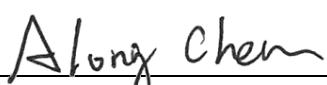


FCC Test Report

FCC ID : XVG50-0102-QT-BL
Equipment : HD IPTV receiver
Model No. : Kamai751Q, Amulet 756Q
(Refer to item 1.1.1 for more details)
Multiple Listing : Kamai 7XYQzzzzz
(where "X" can be 0-9, "Y" can be 0-9;
"zzzzzz" can be any combination of "0-9",
"a-z", "-", "/" or blank for marketing purpose)
Amulet 7XYQzzzzz
(where "X" can be 0-9, "Y" can be 0-9;
"zzzzzz" can be any combination of "0-9",
"a-z", "-", "/" or blank for marketing purpose)
Brand Name : Amino
Applicant : Amino Communications Ltd
Address : Buckingway Business Park, Anderson Road,
Swavesey, Cambridge CB24 4UQ, United
Kingdom
Standard : 47 CFR FCC Part 15.407
Received Date : Jun. 13, 2017
Tested Date : Jul. 07 ~ Sep. 26, 2017

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR761304-01AN	Rev. 01	Initial issue	Oct. 05, 2017

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.365MHz 40.31 (Margin -8.30dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5350.00MHz 73.76 (Margin -0.24dB) – PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 23.63 5250~5350MHz: 23.50 5470~5725MHz: 23.40 5725~5850MHz: 25.55 Beamforming mode 5150~5250MHz: 23.37 5250~5350MHz: 23.36 5470~5725MHz: 23.55 5725~5850MHz: 25.25	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Model Name	Multiple Listing	Product Name	Description
Kamai751Q	Kamai 7XYQzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/" or blank for marketing purpose)	HD IPTV receiver	Without HDD
Amulet 756Q	Amulet 7XYQzzzzzz (where "X" can be 0-9, "Y" can be 0-9; "zzzzzz" can be any combination of "0-9", "a-z", "-", "/" or blank for marketing purpose)		With HDD

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	4	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	4	NSSI 2-4, MCS 0-8
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	4	NSSI 2-4, MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5610 5775	42 [1] 58 [1] 106-122 [2] 155 [1]	4	NSSI 2-4, MCS 0-9

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
Note 3: 802.11ac supports beamforming mode.

1.1.3 Antenna Details

Model Name: Kamai751Q

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				5150~5350	5470~5725	5725~5850
1	ANT 1	Dipole	IPEX	3.25		
2	ANT 2	Dipole	IPEX	3.17		
3	ANT 3	Dipole	IPEX	2.84		
4	ANT 4	Dipole	IPEX	3.03		

Model Name: Amulet 756Q

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				5150~5350	5470~5725	5725~5850
1	ANT 1	Dipole	IPEX	2.99		
2	ANT 2	Dipole	IPEX	3.05		
3	ANT 3	Dipole	IPEX	3.19		
4	ANT 4	Dipole	IPEX	3.29		

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter
-------------------	-----------------------

1.1.5 Accessories

Model Name: Kamai751Q

Accessories		
No.	Equipment	Description
1	Adapter 1	Brand Name: MOSO Model Name: MSA-C2000IS12.0-24Y-US I/P: 100-120Vac, 50/60Hz, 0.7A Max O/P: 12Vdc, 2A Power line: 1.8m non-shielded without core
2	Adapter 2	Brand Name: APD Model Name: WA-24Q12R-EBAB I/P: 100-120Vac, 50-60Hz, 0.7A Max O/P: 12Vdc, 2A Power line: 1.8m non-shielded without core
3	3.5mm to 3RCA cable	Brand : Interconnect Model : KFA1141105074-5, Power line: 1.75m, non-shielded, without core
4	HDMI cable	Brand : Interconnect Model : 18-94H1CS-372G-H Power line: 2m, shielded, without ferrite core
5	Ethernet cable	Brand : WENET Model : P355-3-1 Power line: 2m, non-shielded cable, w/o ferrite core
6.	Remote control	---

Model Name: Amulet 756Q

Accessories		
No.	Equipment	Description
1	Adapter 1	Brand Name: MOSO Model Name: MSA-C2000IS12.0-24Y-US I/P: 100-120Vac, 50/60Hz, 0.7A Max O/P: 12Vdc, 2A Power line: 1.8m non-shielded without core
2	Adapter 2	Brand Name: APD Model Name: WA-24Q12R-EBAB I/P: 100-120Vac, 50-60Hz, 0.7A Max O/P: 12Vdc, 2A Power line: 1.8m non-shielded without core
3	3.5mm to 3RCA cable	Brand Name: Interconnect Model Name: KFA1141105074-5, Power line: 1.75m, non-shielded, without core
4	HDMI cable	Brand : Interconnect Model Name 18-94H1CS-372G-H Power line: 2m, shielded, without ferrite core
5	Ethernet cable	Brand Name: WENET Model Name P355-3-1 Power line: 2m, non-shielded cable, w/o ferrite core
6	Remote control	---
7	HDD	Brand Name: WD Model Name: WD10JUCT

1.1.6 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	151	5755
108	5540	159	5795
112	5560	VHT80	
116	5580	42	5210
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	155	5775
136	5680	---	---
140	5700	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.7 Test Tool and Duty Cycle

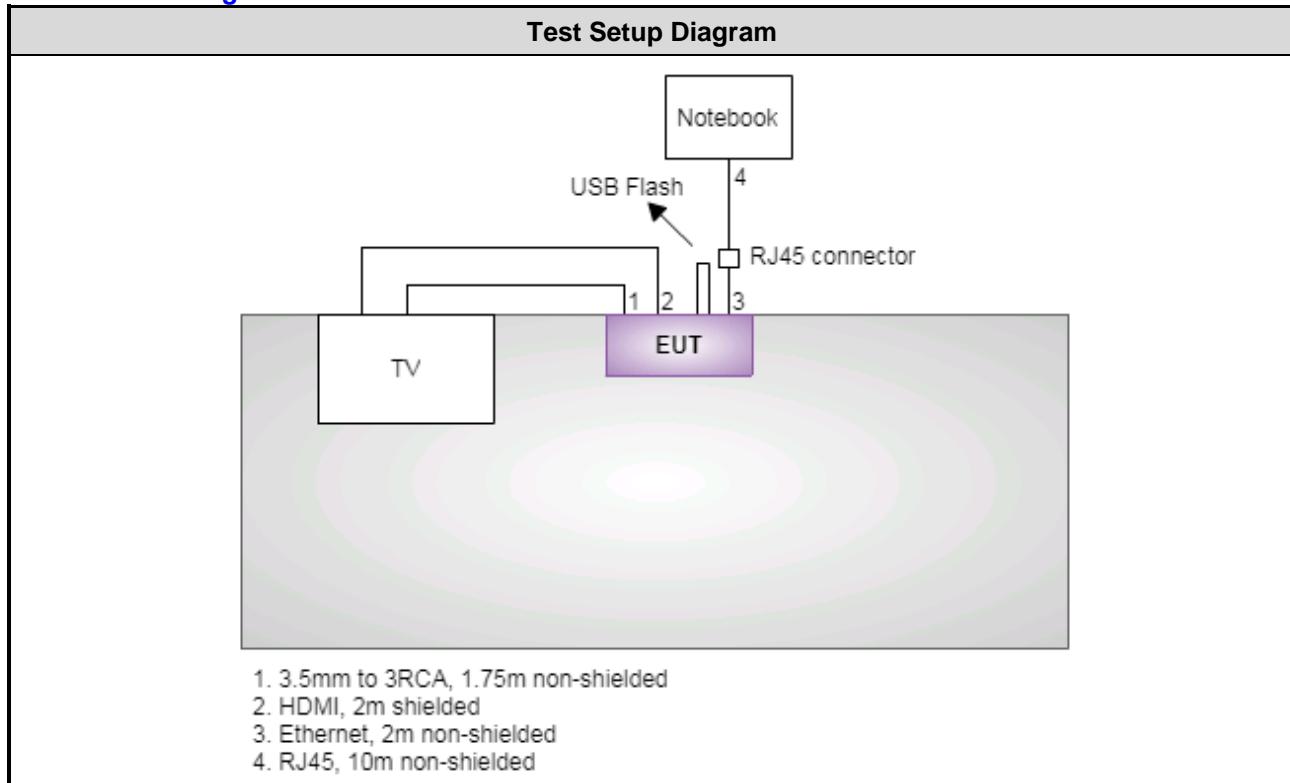
Test Tool	telnet				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	92.20%	0.35	---	---
	VHT20	99.46%	0.02	95.47%	0.20
	VHT40	98.14%	0.08	87.86%	0.56
	VHT80	96.14%	0.17	94.32%	0.25

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	9ZFB4X1	RJ45, 10m non-shielded Ethernet, 2m non-shielded
2	Notebook	DELL	Latitude E6440	2PXMD12	RJ45, 1m non-shielded
3	TV	CHIMEI	TL-24LF500D	24LF500DK 3511822	3.5mm to 3RCA, 1.75m non-shielded HDMI, 2m shielded
4	USB 3.0 Flash	pqi	U273V 16G	51882	---
5	Beamforming	amino	WA-24Q12R	---	RJ45, 1m non-shielded

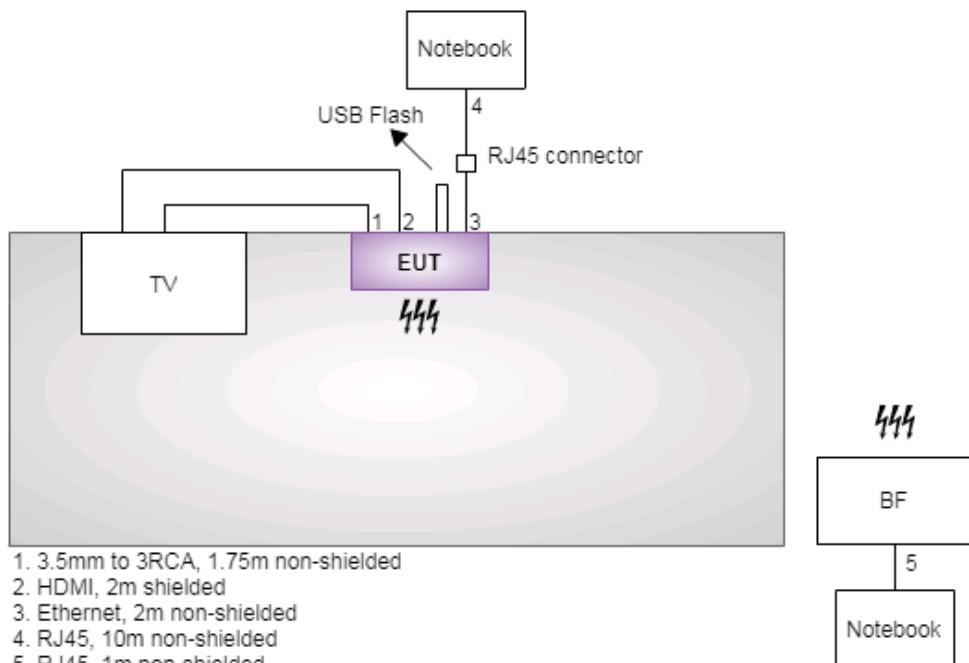
1.3 Test Setup Chart

Non-beamforming mode



Beamforming mode

Test Setup Diagram



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jul. 11, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Dec. 21, 2016	Dec. 20, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 25, 2016	Nov. 24, 2017
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 20, 2016	Dec. 19, 2017
50 ohm terminal (Support Unit)	NA	50	04	May 12, 2017	May 11, 2018
Measurement Software	AUDIX	e3	6.120210k	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Jul. 07, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 28, 2017	Apr. 27, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 09, 2017	Feb. 08, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 08, 2016	Sep. 07, 2017
Preamplifier	Agilent	83017A	MY53270014	Aug. 22, 2016	Aug. 21, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 04, 2017	Feb. 03, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 04, 2017	Feb. 03, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 04, 2017	Feb. 03, 2018
LF cable-13M	EMC	EMC8D-NM-NM-1300	131104	Feb. 04, 2017	Feb. 03, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Sep. 05, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 28, 2017	Apr. 27, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 09, 2017	Feb. 08, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 04, 2017	Sep. 03, 2018
Preamplifier	Agilent	83017A	MY53270014	Aug. 21, 2017	Aug. 20, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 04, 2017	Feb. 03, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 04, 2017	Feb. 03, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 04, 2017	Feb. 03, 2018
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 04, 2017	Feb. 03, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Jul. 07 ~ Sep. 26, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Mar. 15, 2017	Mar. 14, 2018
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 28, 2016	Oct. 27, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jul. 25, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Dec. 21, 2016	Dec. 20, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 25, 2016	Nov. 24, 2017
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 20, 2016	Dec. 19, 2017
50 ohm terminal (Support Unit)	NA	50	04	May 12, 2017	May 11, 2018
Measurement Software	AUDIX	e3	6.120210k	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Jul. 20, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 28, 2017	Apr. 27, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 09, 2017	Feb. 08, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 08, 2016	Sep. 07, 2017
Preamplifier	Agilent	83017A	MY53270014	Aug. 22, 2016	Aug. 21, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 04, 2017	Feb. 03, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 04, 2017	Feb. 03, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 04, 2017	Feb. 03, 2018
LF cable-13M	EMC	EMC8D-NM-NM-1300	131104	Feb. 04, 2017	Feb. 03, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Sep. 12, 2017				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY52221474	Oct. 14, 2016	Oct. 13, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 28, 2017	Apr. 27, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 09, 2017	Feb. 08, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 04, 2017	Sep. 03, 2018
Preamplifier	Agilent	83017A	MY53270014	Aug. 21, 2017	Aug. 20, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 04, 2017	Feb. 03, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 04, 2017	Feb. 03, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 04, 2017	Feb. 03, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 04, 2017	Feb. 03, 2018
LF cable-13M	EMC	EMC8D-NM-NM-1300	131104	Feb. 04, 2017	Feb. 03, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04

FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.37 dB
Time	±0.1%
Temperature	±0.6 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 56%	Alex Tsai
Radiated Emissions	03CH03-WS	23-24°C / 61-62%	Vincent Yeh Kevin Lee
RF Conducted	TH01-WS	22°C / 63-64%	Brad Wu

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5670	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5670	MCS 0	1, 2
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1, 2
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Frequency Stability	Un-modulation	5320	---	1

NOTE:

1. Adapter 1 and Adapter 2 had been pretested and found that **Adapter 2** was the worst case and was selected for final testing (Adapter 1: MOSO adapter; **Adapter 2: APD adapter**).
2. The test configurations are listed as follows:
 Configuration 1 : Model Name: Kamai751Q
 Configuration 2 : Model Name: Amulet 756Q

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5795	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5795	MCS 0	1, 2
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth	11a	5745 / 5785 / 5825	6 Mbps	1, 2
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1

NOTE:

1. Adapter 1 and Adapter 2 had been pretested and found that **Adapter 2** was the worst case and was selected for final testing (Adapter 1: MOSO adapter; **Adapter 2: APD adapter**).

2. The test configurations are listed as follows:

Configuration 1 : Model Name: Kamai751Q

Configuration 2 : Model Name: Amulet 756Q

Beamforming mode

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5590	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5590	MCS 0	1, 2
RF Output Power	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	1
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Emission Bandwidth Peak Power Spectral Density	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	1
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Radiated Emissions >1GHz	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	1, 2
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	

NOTE:

1. Adapter 1 and Adapter 2 had been pretested and found that **Adapter 2** was the worst case and was selected for final testing (Adapter 1: MOSO adapter; **Adapter 2: APD adapter**).
2. The test configurations are listed as follows:
Configuration 1 : Model Name: Kamai751Q
Configuration 2 : Model Name: Amulet 756Q

frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5795	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5795	MCS 0	1, 2
RF Output Power	VHT20	5745 / 5785 / 5825	MCS 0	1
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
6dB bandwidth Peak Power Spectral Density	VHT20	5745 / 5785 / 5825	MCS 0	1
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth	VHT20	5745 / 5785 / 5825	MCS 0	1, 2
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	

NOTE:

1. Adapter 1 and Adapter 2 had been pretested and found that **Adapter 2** was the worst case and was selected for final testing (Adapter 1: MOSO adapter; **Adapter 2: APD adapter**).
2. The test configurations are listed as follows:
Configuration 1 : Model Name: Kamai751Q
Configuration 2 : Model Name: Amulet 756Q

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

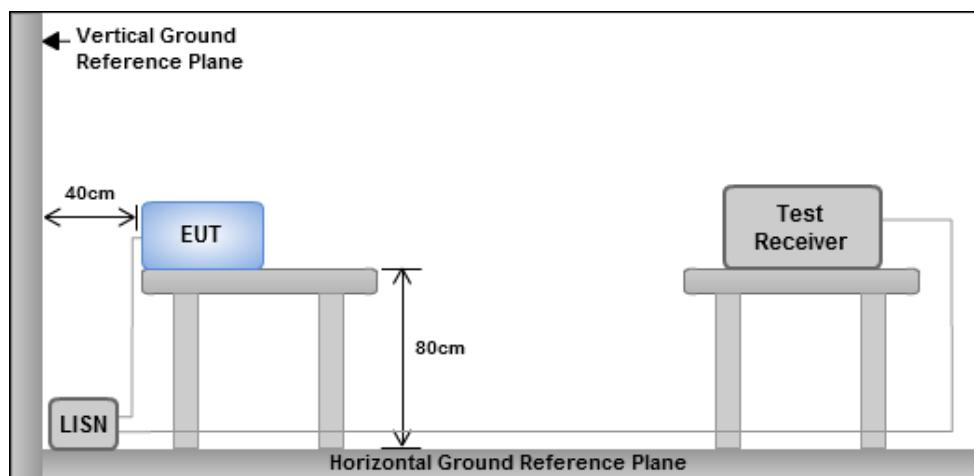
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.1.3 Test Setup

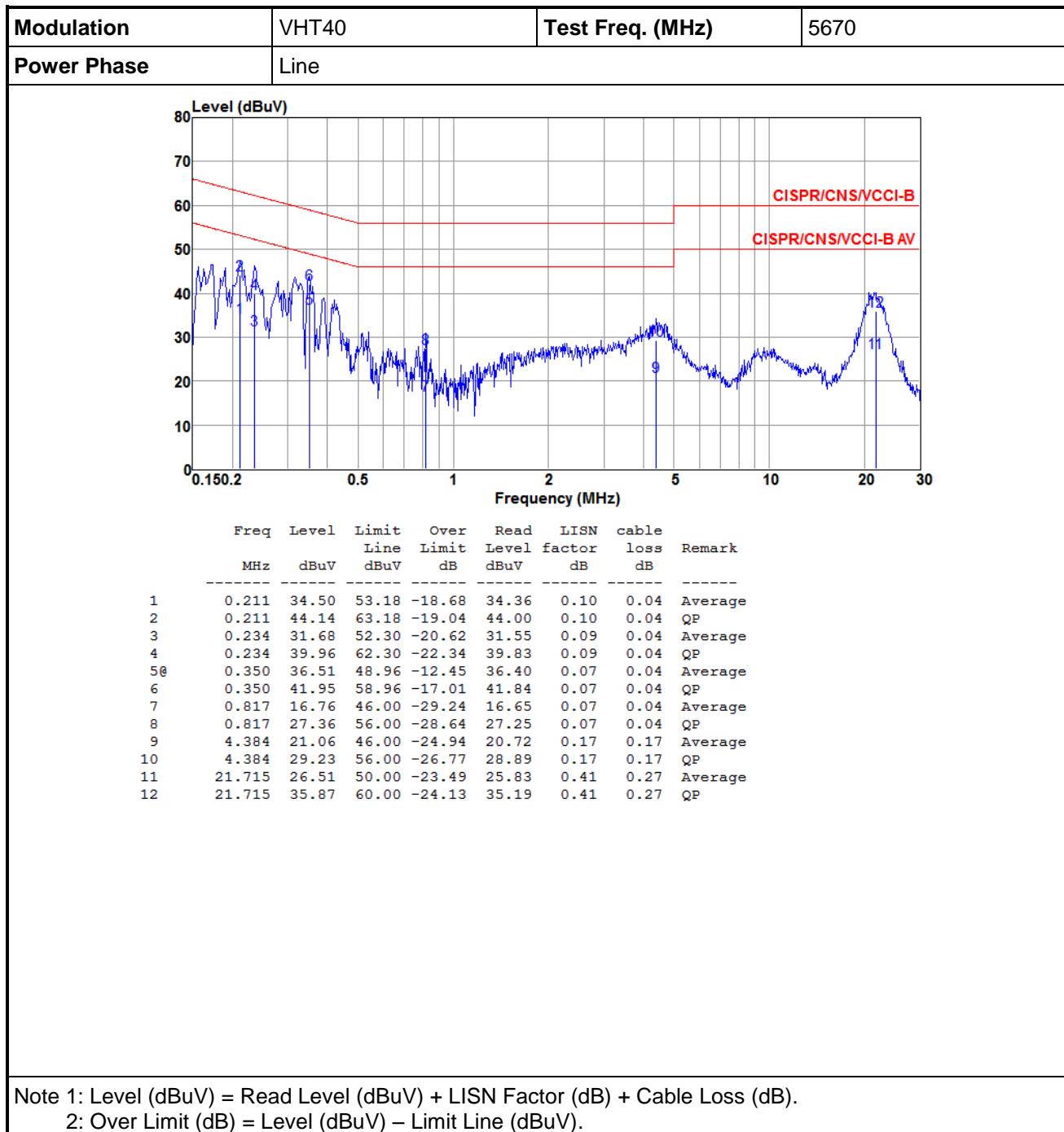


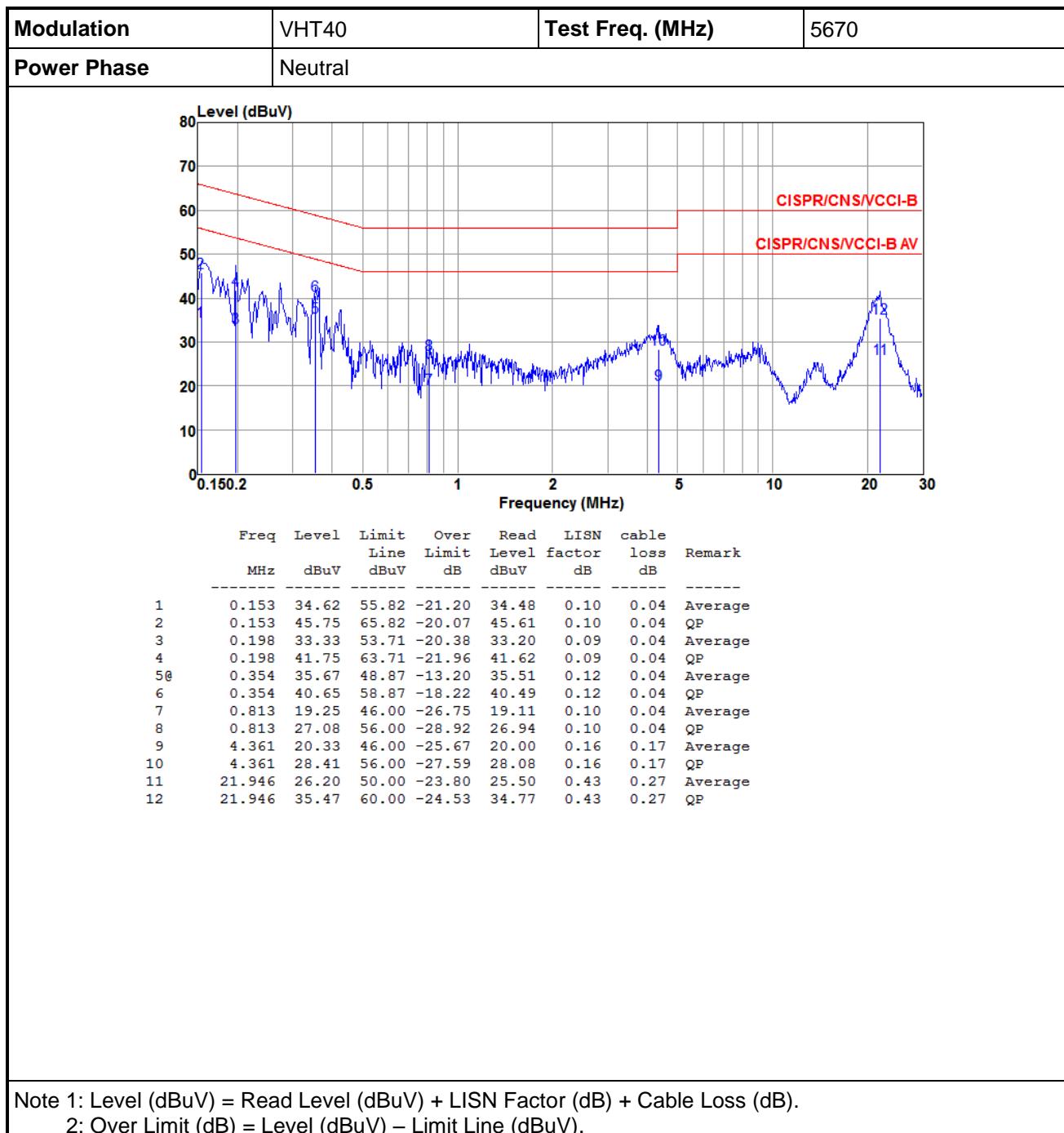
- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

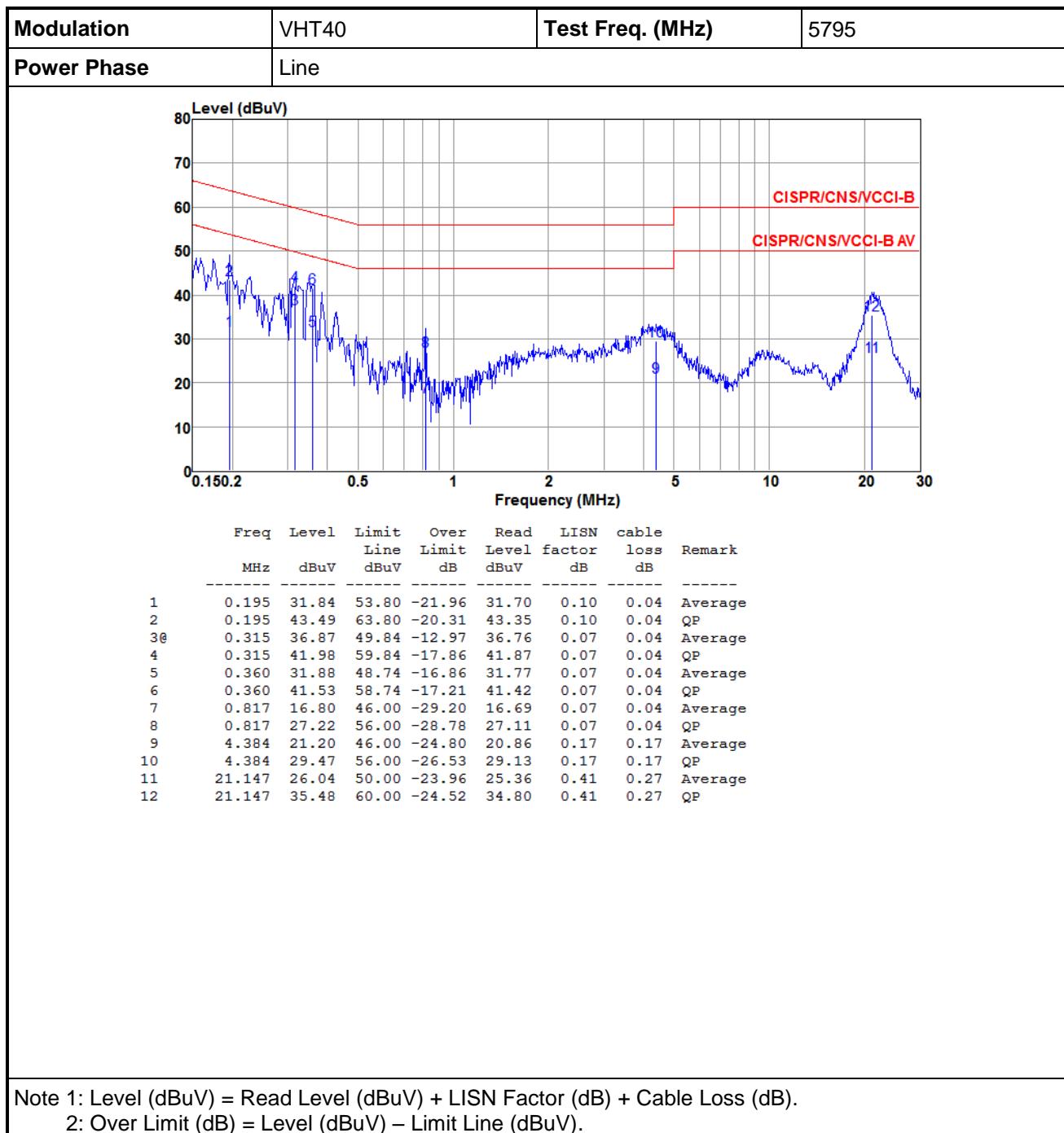
3.1.4 Test Result of Conducted Emissions

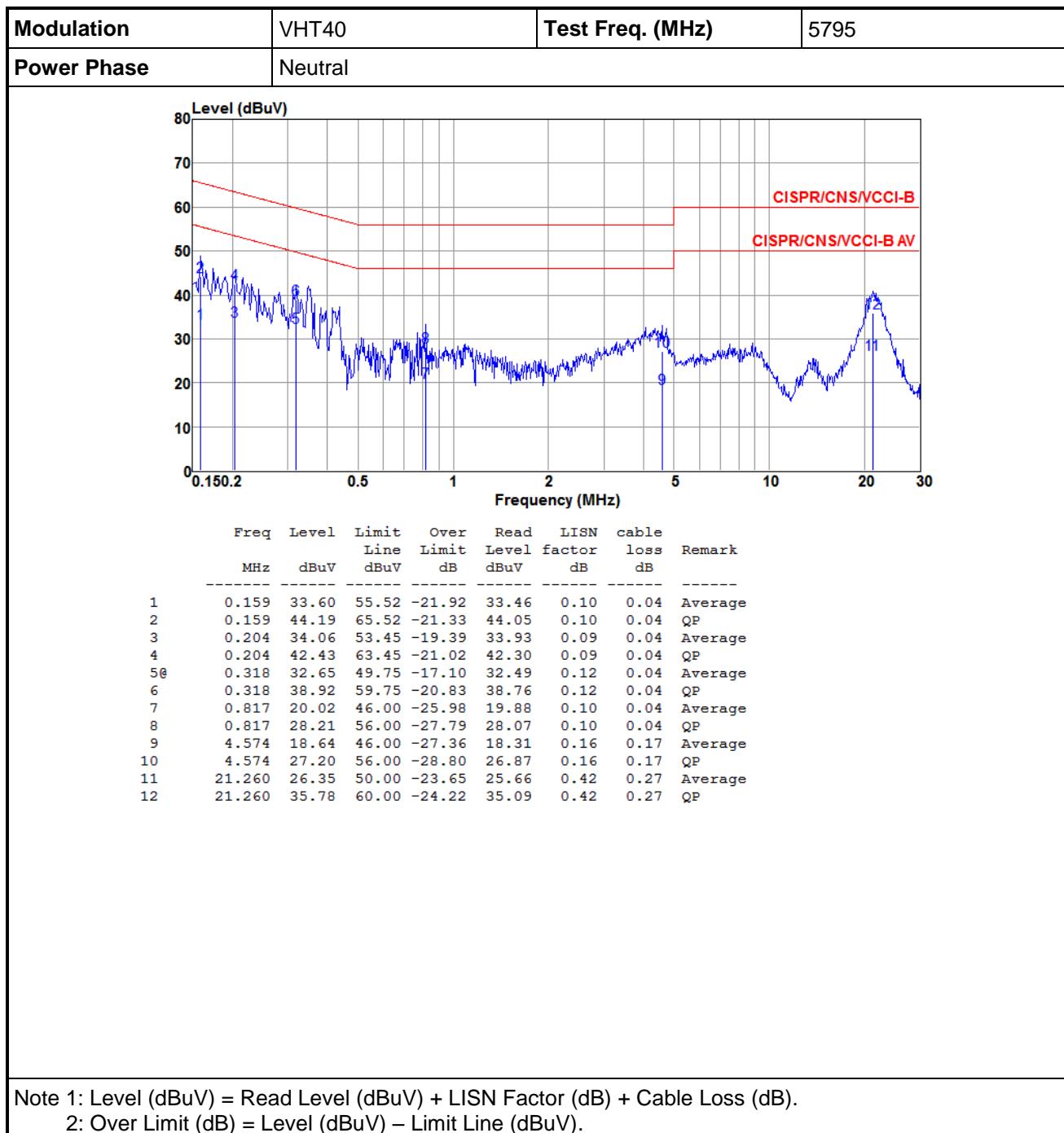
Model Name: Kamai751Q

Non-beamforming mode

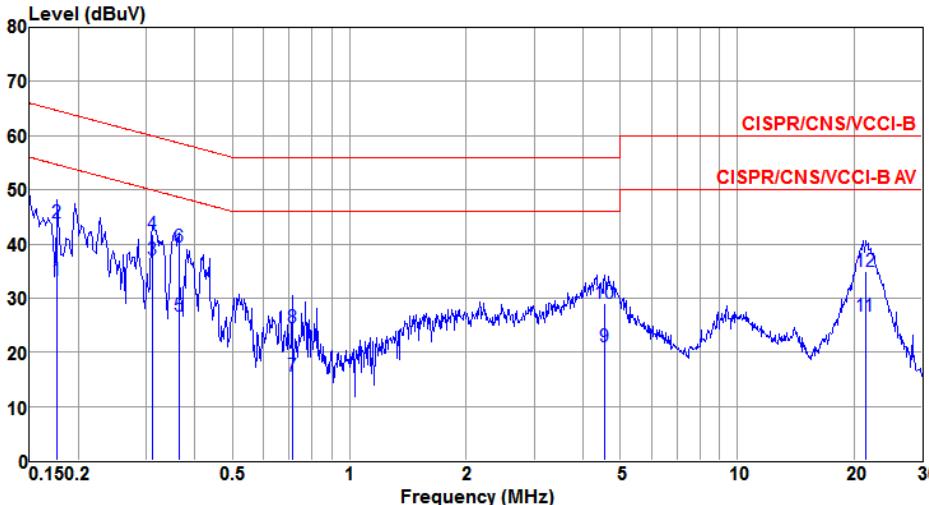






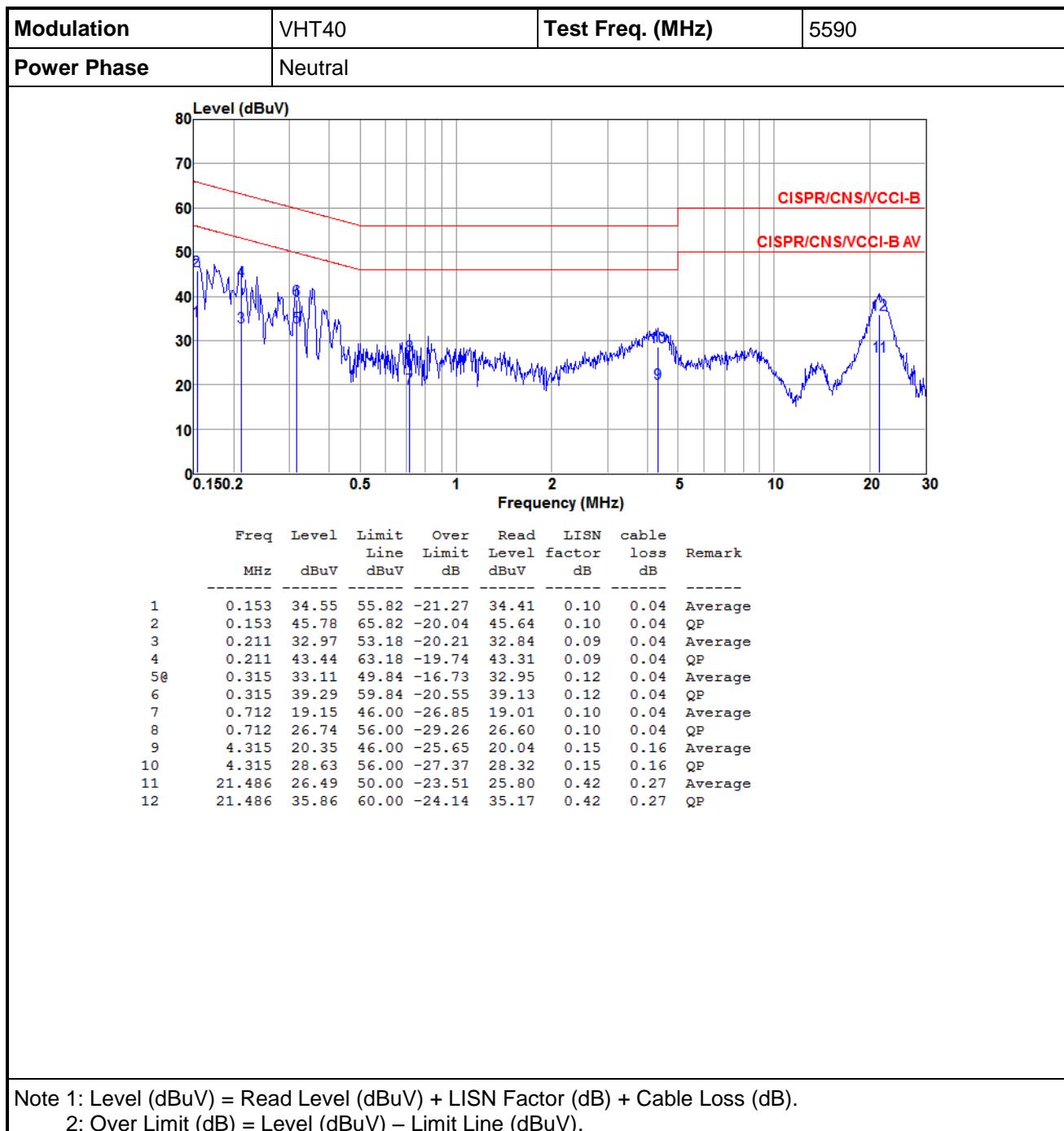


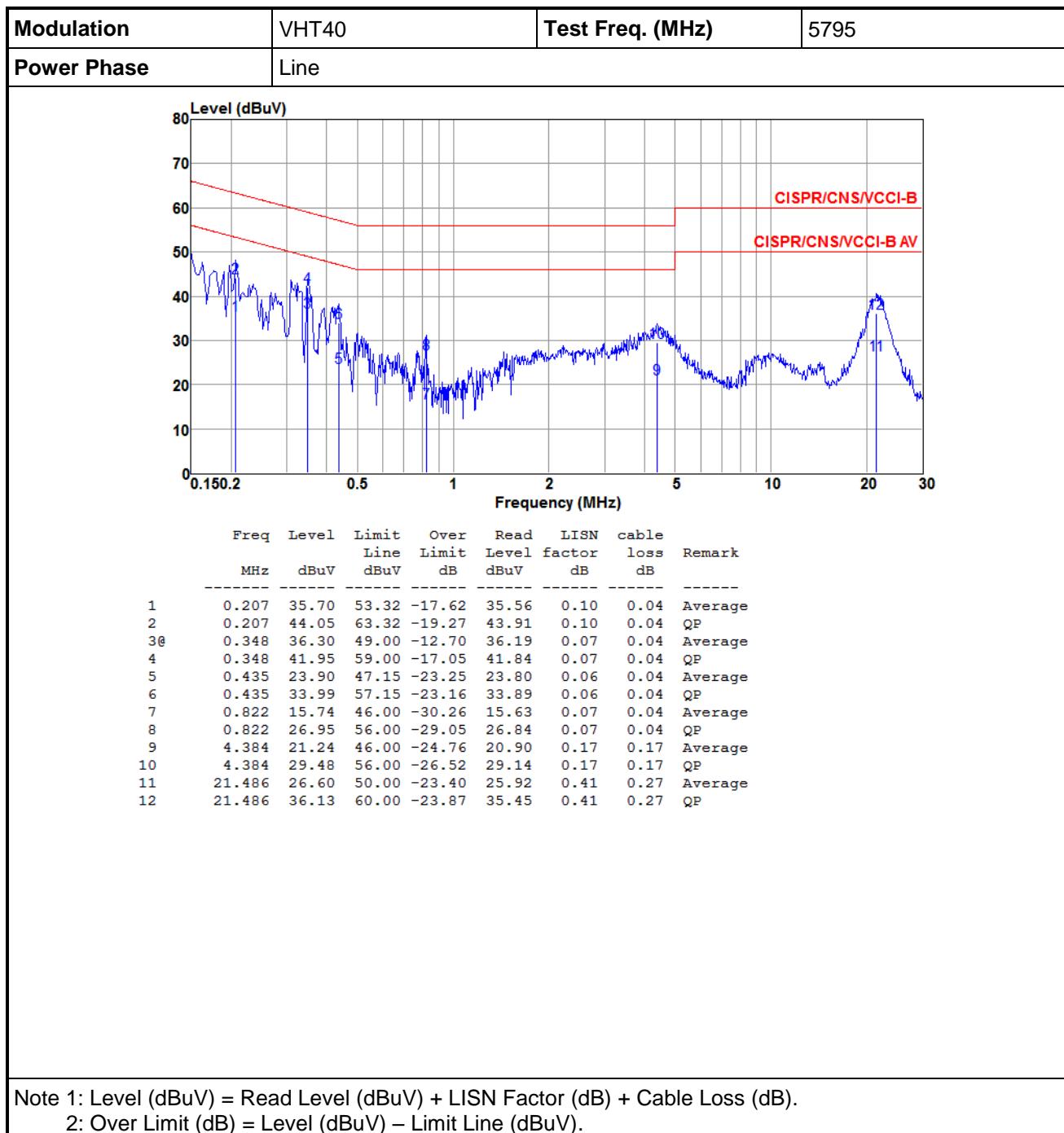
Beamforming mode

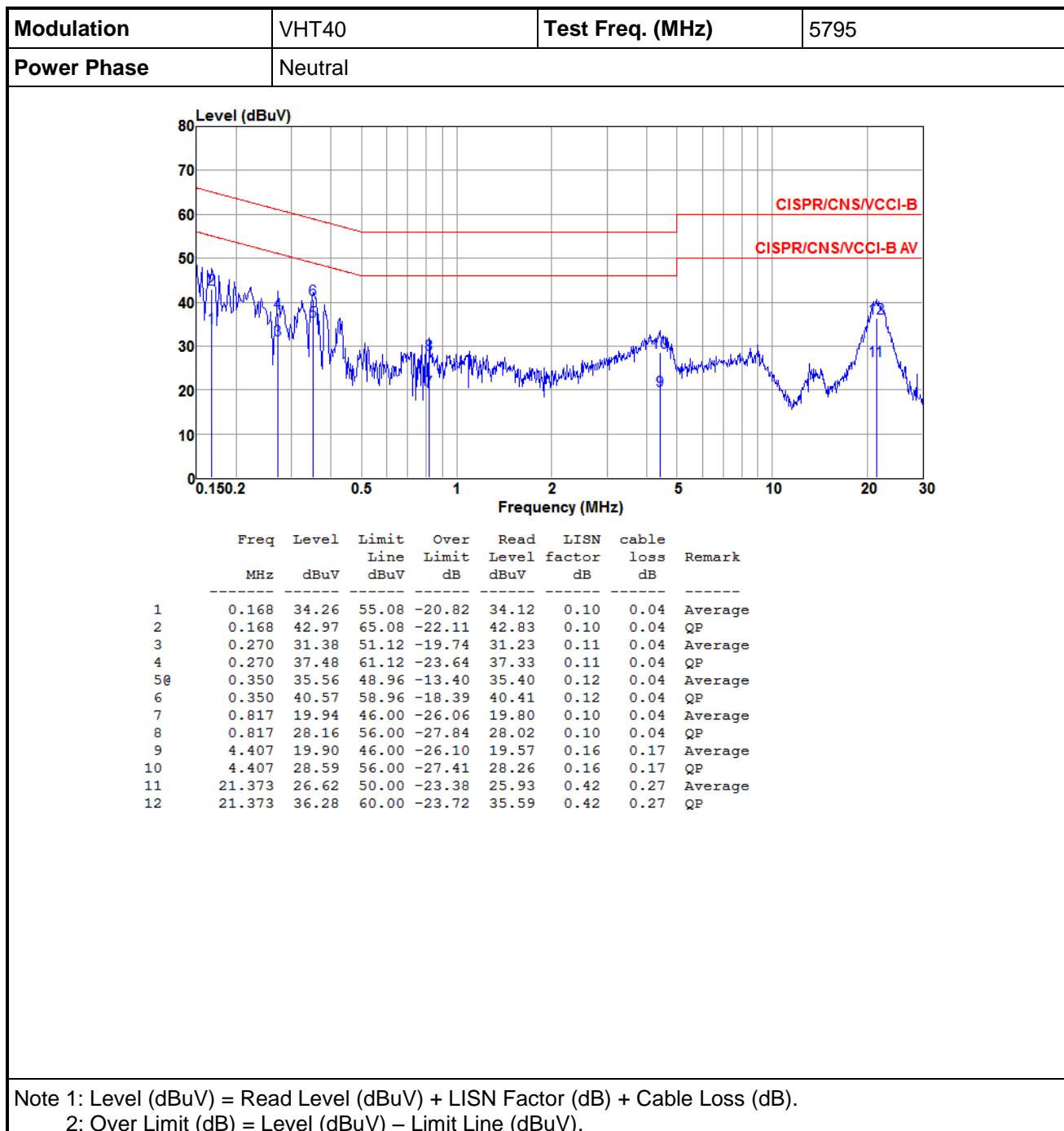
Modulation	VHT40	Test Freq. (MHz)	5590																																																																																																								
Power Phase	Line																																																																																																										
																																																																																																											
<table border="1"> <thead> <tr> <th>Freq MHz</th> <th>Level dBuV</th> <th>Limit Line dBuV</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>LISN factor dB</th> <th>cable loss dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.177</td><td>33.27</td><td>54.64</td><td>-21.37</td><td>33.14</td><td>0.09</td><td>0.04 Average</td></tr> <tr><td>2</td><td>0.177</td><td>43.80</td><td>64.64</td><td>-20.84</td><td>43.67</td><td>0.09</td><td>0.04 QP</td></tr> <tr><td>3@</td><td>0.312</td><td>36.95</td><td>49.93</td><td>-12.98</td><td>36.84</td><td>0.07</td><td>0.04 Average</td></tr> <tr><td>4</td><td>0.312</td><td>41.70</td><td>59.93</td><td>-18.23</td><td>41.59</td><td>0.07</td><td>0.04 QP</td></tr> <tr><td>5</td><td>0.363</td><td>26.72</td><td>48.65</td><td>-21.93</td><td>26.61</td><td>0.07</td><td>0.04 Average</td></tr> <tr><td>6</td><td>0.363</td><td>39.47</td><td>58.65</td><td>-19.18</td><td>39.36</td><td>0.07</td><td>0.04 QP</td></tr> <tr><td>7</td><td>0.712</td><td>15.70</td><td>46.00</td><td>-30.30</td><td>15.59</td><td>0.07</td><td>0.04 Average</td></tr> <tr><td>8</td><td>0.712</td><td>24.48</td><td>56.00</td><td>-31.52</td><td>24.37</td><td>0.07</td><td>0.04 QP</td></tr> <tr><td>9</td><td>4.549</td><td>21.00</td><td>46.00</td><td>-25.00</td><td>20.66</td><td>0.17</td><td>0.17 Average</td></tr> <tr><td>10</td><td>4.549</td><td>29.12</td><td>56.00</td><td>-26.88</td><td>28.78</td><td>0.17</td><td>0.17 QP</td></tr> <tr><td>11</td><td>21.373</td><td>26.59</td><td>50.00</td><td>-23.41</td><td>25.91</td><td>0.41</td><td>0.27 Average</td></tr> <tr><td>12</td><td>21.373</td><td>35.00</td><td>60.00</td><td>-25.00</td><td>34.32</td><td>0.41</td><td>0.27 QP</td></tr> </tbody> </table>				Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.177	33.27	54.64	-21.37	33.14	0.09	0.04 Average	2	0.177	43.80	64.64	-20.84	43.67	0.09	0.04 QP	3@	0.312	36.95	49.93	-12.98	36.84	0.07	0.04 Average	4	0.312	41.70	59.93	-18.23	41.59	0.07	0.04 QP	5	0.363	26.72	48.65	-21.93	26.61	0.07	0.04 Average	6	0.363	39.47	58.65	-19.18	39.36	0.07	0.04 QP	7	0.712	15.70	46.00	-30.30	15.59	0.07	0.04 Average	8	0.712	24.48	56.00	-31.52	24.37	0.07	0.04 QP	9	4.549	21.00	46.00	-25.00	20.66	0.17	0.17 Average	10	4.549	29.12	56.00	-26.88	28.78	0.17	0.17 QP	11	21.373	26.59	50.00	-23.41	25.91	0.41	0.27 Average	12	21.373	35.00	60.00	-25.00	34.32	0.41	0.27 QP
Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																				
1	0.177	33.27	54.64	-21.37	33.14	0.09	0.04 Average																																																																																																				
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11	21.373	26.59	50.00	-23.41	25.91	0.41	0.27 Average																																																																																																				
12	21.373	35.00	60.00	-25.00	34.32	0.41	0.27 QP																																																																																																				

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

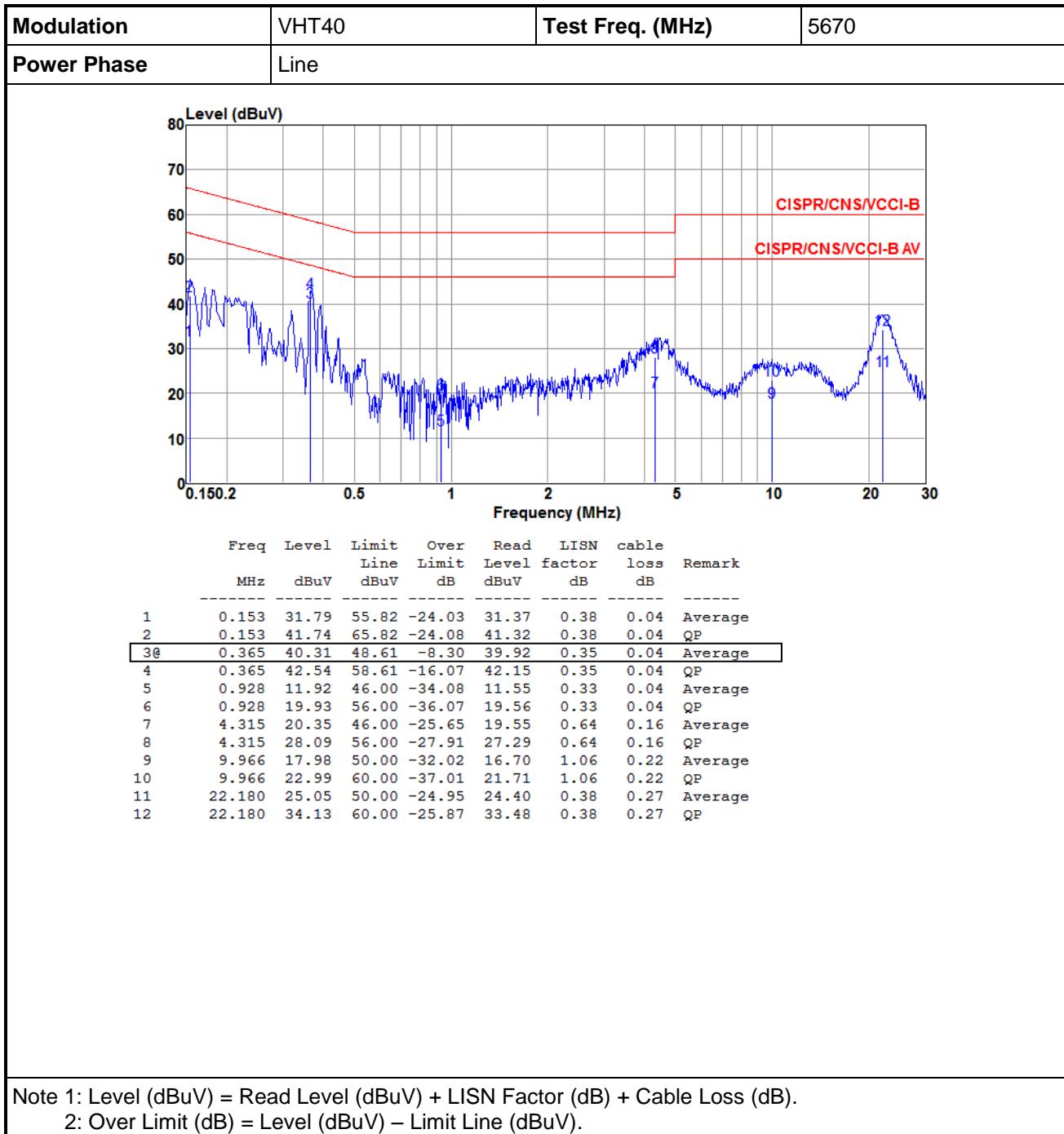
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

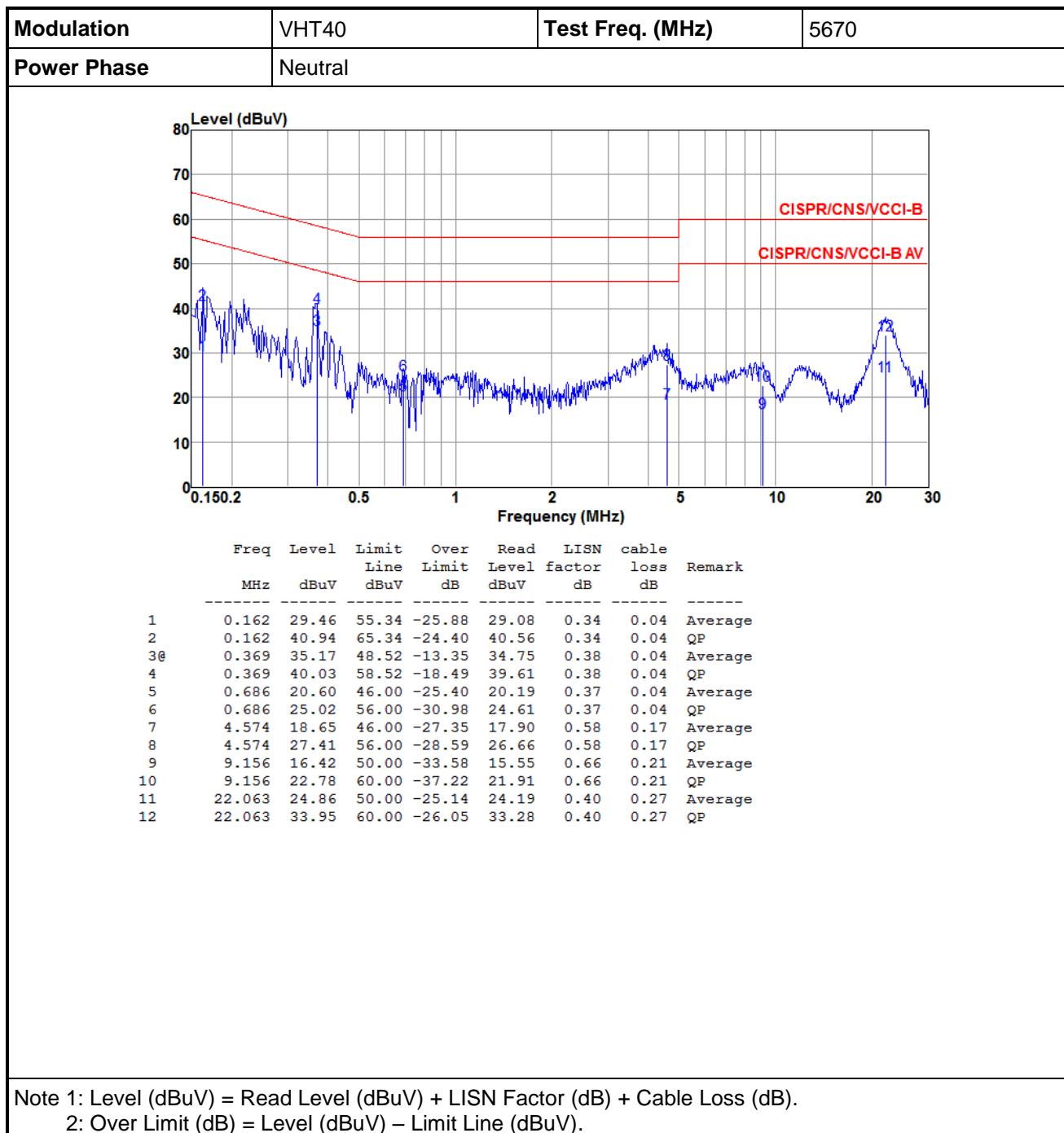


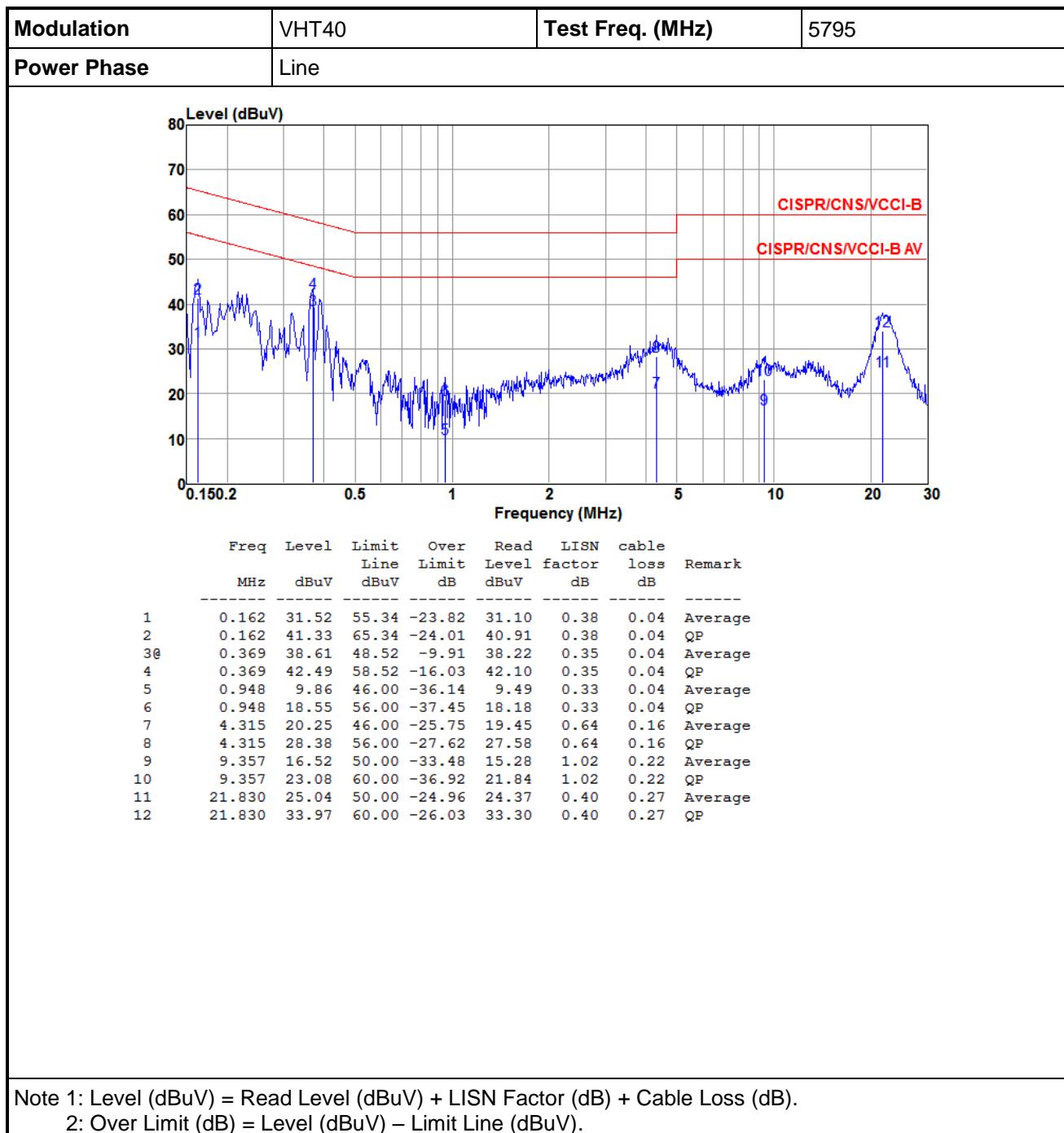


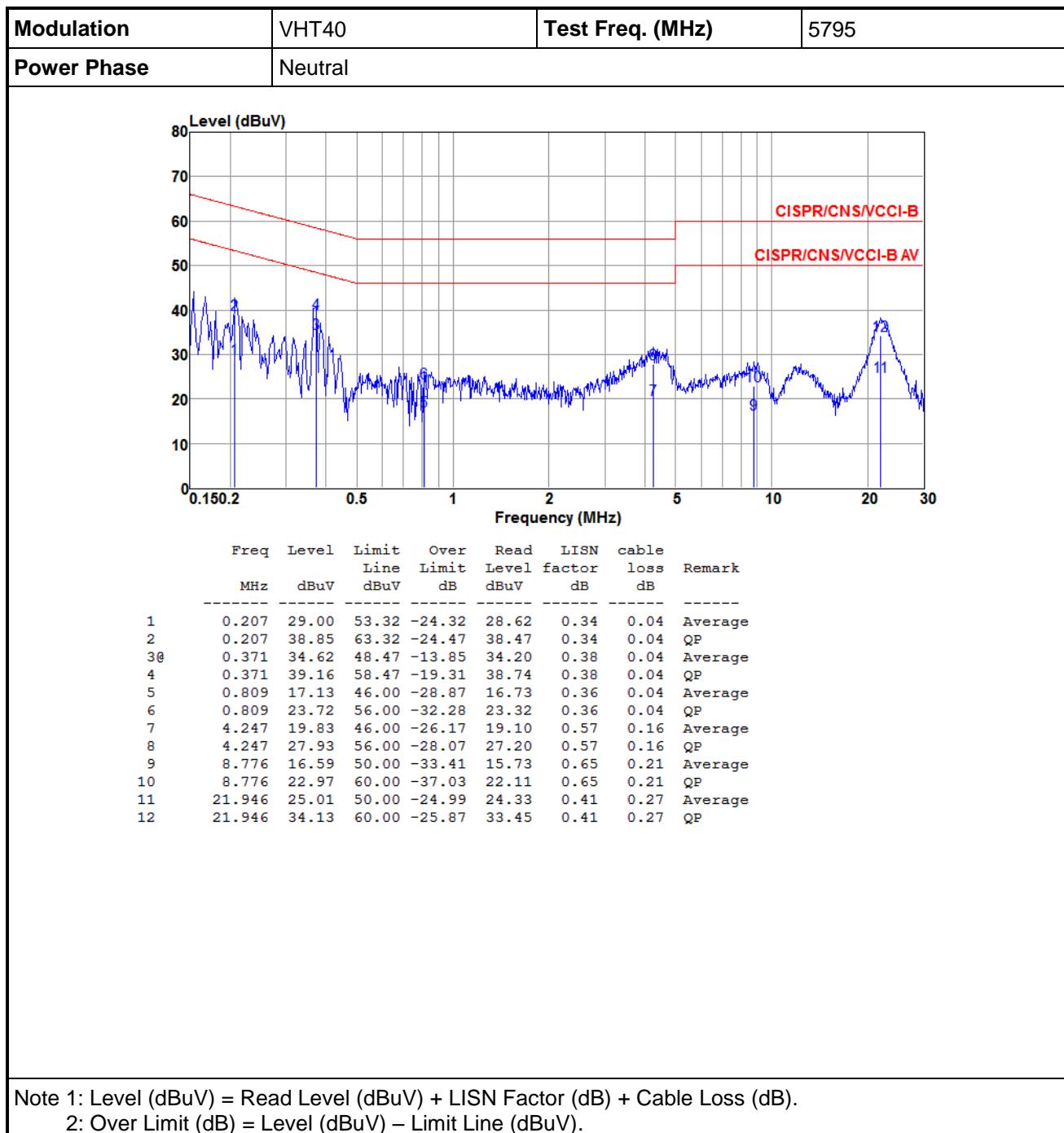


Model Name: Amulet 756Q
Non-beamforming mode





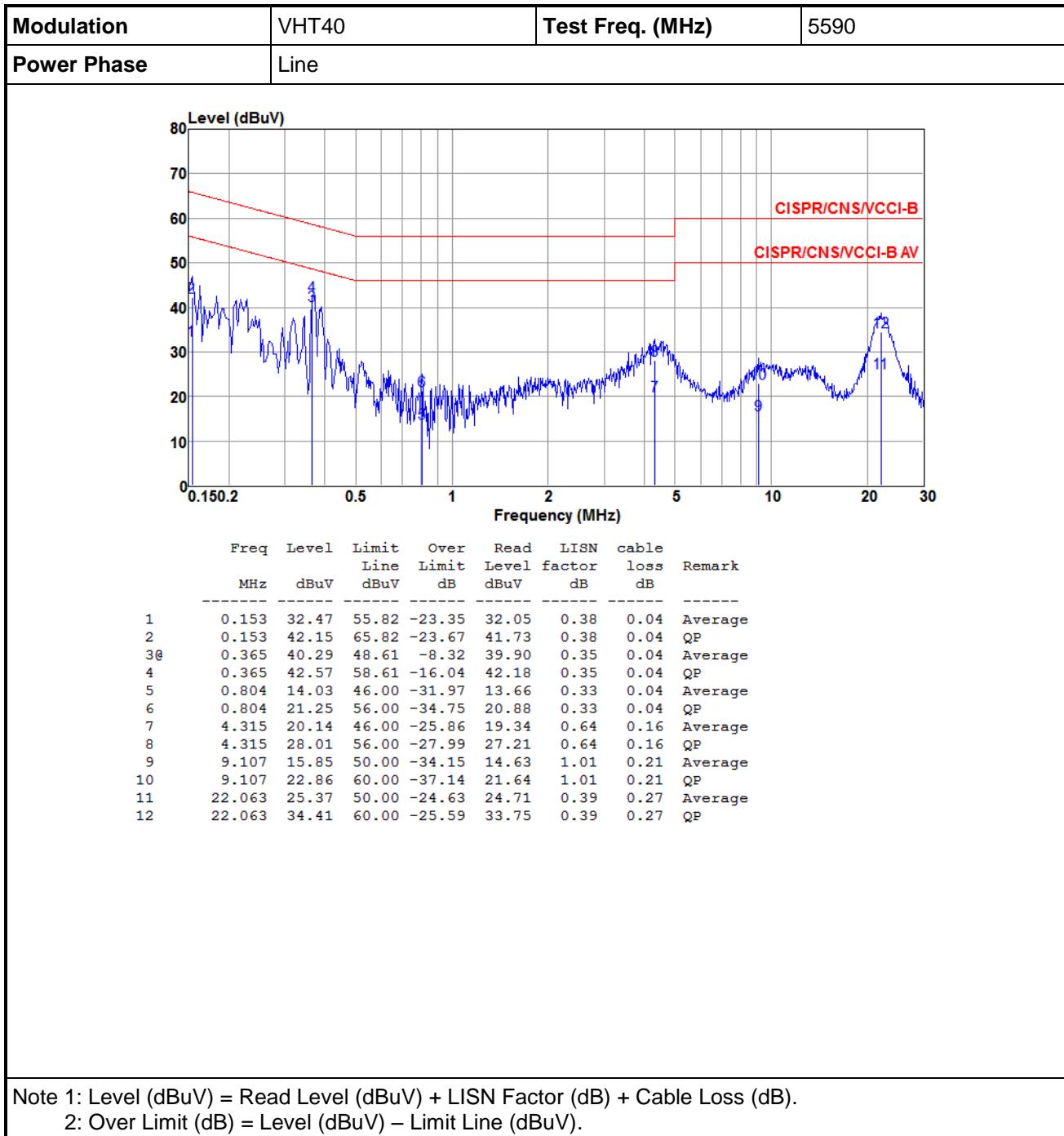


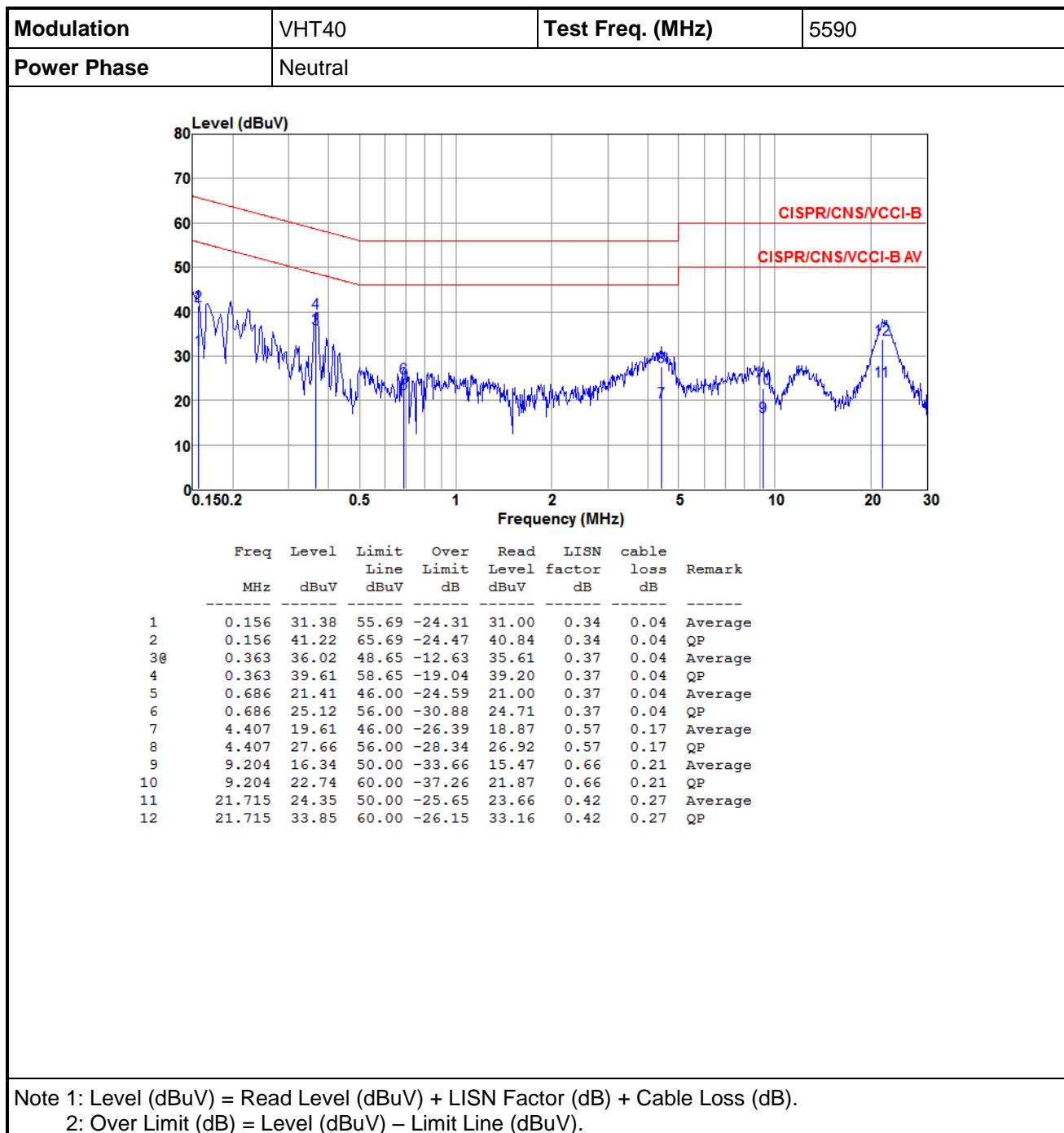


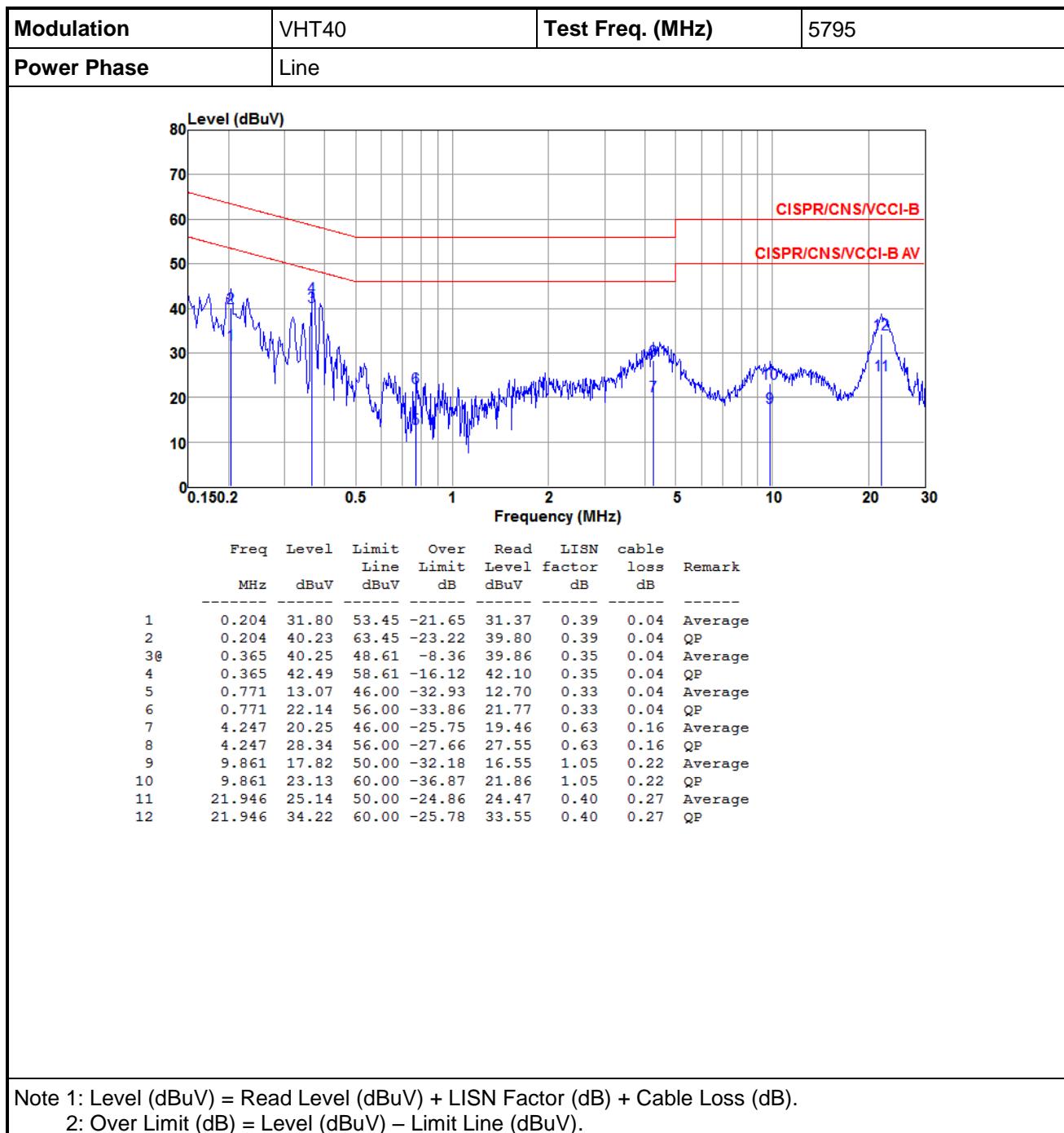
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

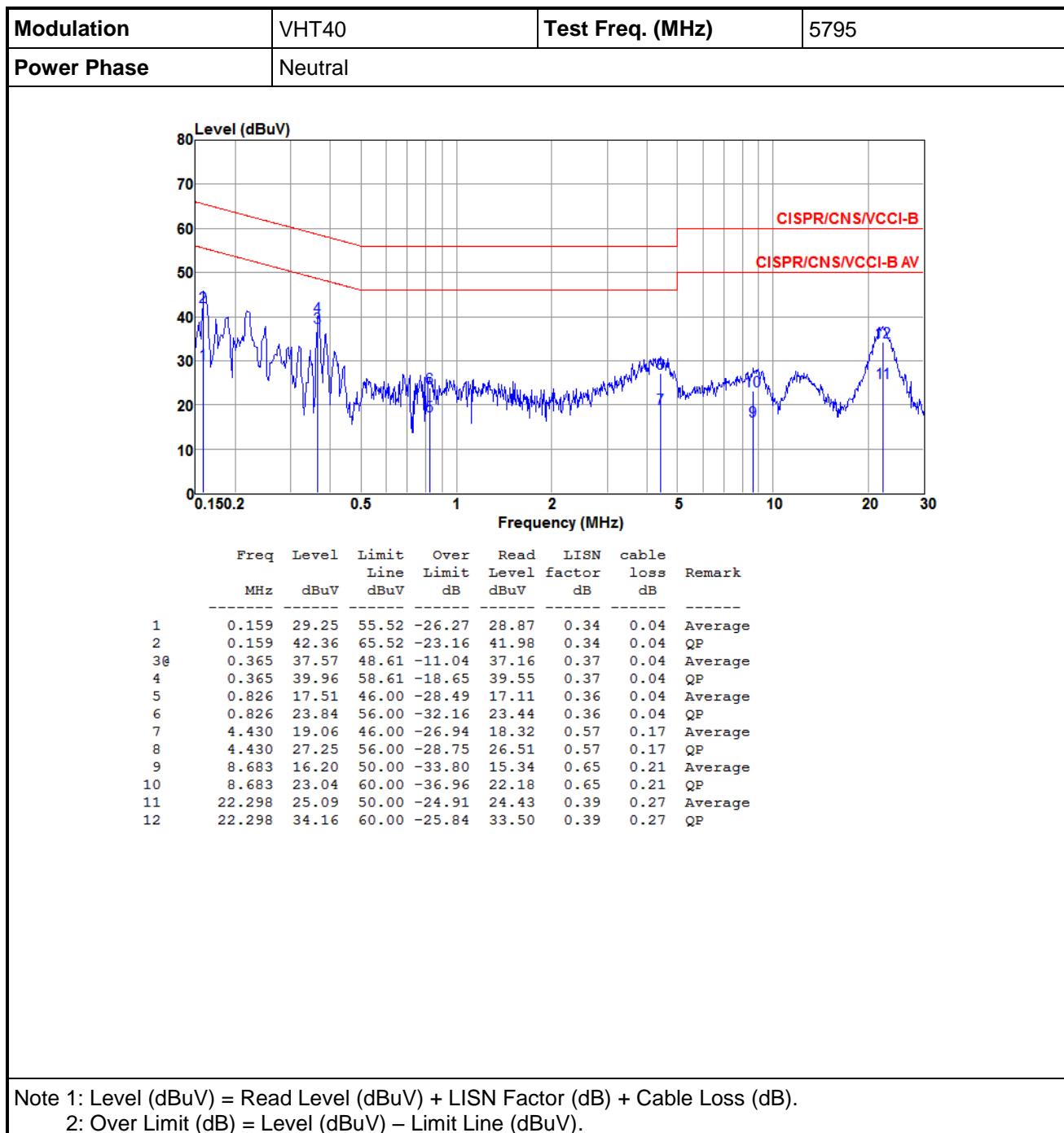
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Beamforming mode









3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

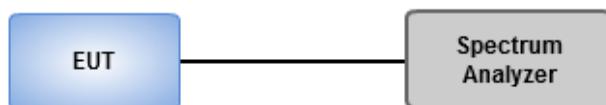
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW \geq 3 RBW
3. Sample detection and single sweep mode shall be used
4. Use the 99 % power bandwidth function of the instrument

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

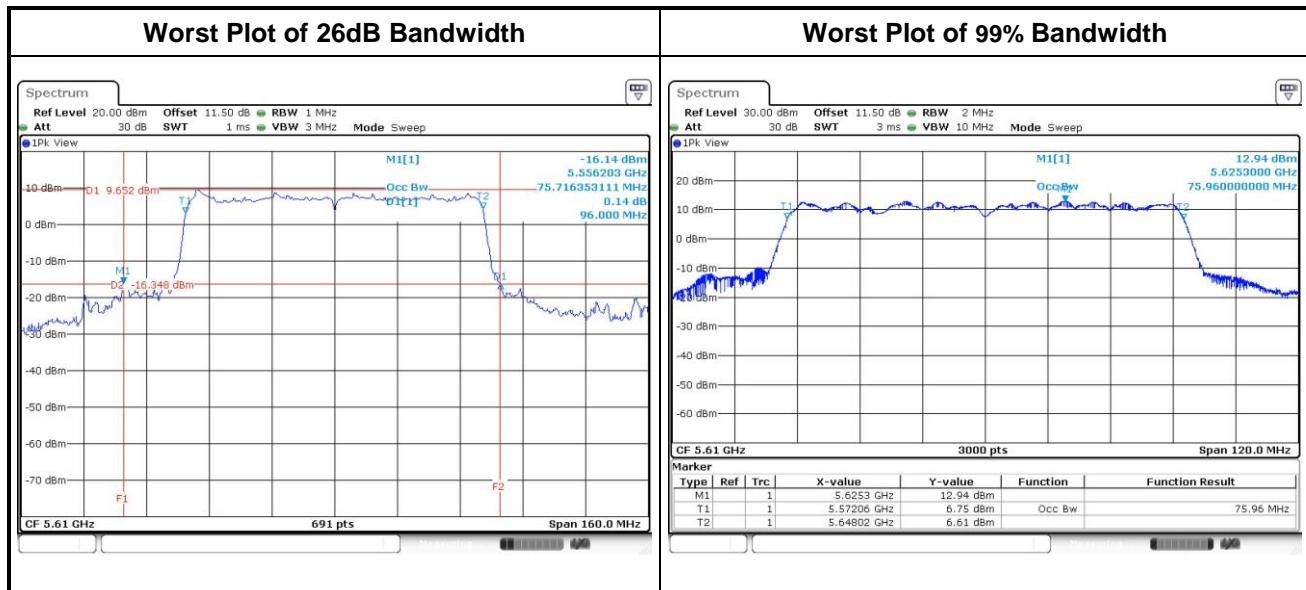
Non-beamforming mode

For Frequency band 5150~5250 MHz										
Mode	N _{Tx}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	4	5180	22.78	23.59	23.42	23.54	16.88	17.03	16.92	16.96
11a	4	5200	22.90	23.59	23.36	23.65	16.89	17.03	16.93	16.96
11a	4	5240	22.90	23.59	23.48	23.54	16.91	17.05	16.93	16.97
VHT20	4	5180	24.81	25.10	24.17	24.00	18.22	18.32	18.10	18.00
VHT20	4	5200	24.64	24.99	24.00	24.00	18.23	18.33	18.09	17.99
VHT20	4	5240	24.75	25.28	24.00	24.23	18.25	18.32	18.07	18.00
VHT40	4	5190	44.41	44.29	44.17	43.94	37.22	36.90	37.06	36.78
VHT40	4	5230	44.52	44.87	44.17	43.83	37.18	36.92	37.14	36.84
VHT80	4	5210	83.48	81.62	83.01	82.32	75.64	75.48	75.76	75.84

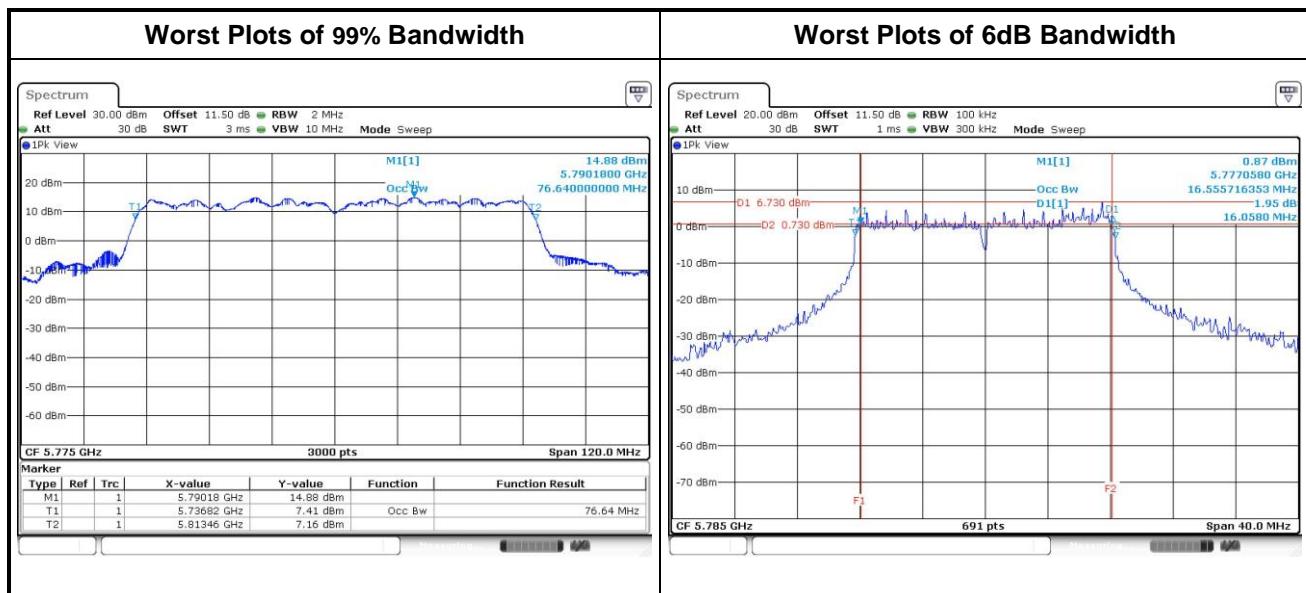
For Frequency band 5250~5350 MHz										
Mode	N _{Tx}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	4	5260	22.90	23.59	23.54	23.59	16.93	17.06	16.94	16.99
11a	4	5300	23.07	23.65	23.59	23.71	16.96	17.07	16.98	17.02
11a	4	5320	22.90	23.48	23.36	23.59	16.92	17.03	16.95	16.96
VHT20	4	5260	24.99	25.33	24.35	24.00	18.28	18.35	18.10	18.02
VHT20	4	5300	24.93	25.16	24.46	24.12	18.30	18.36	18.12	18.03
VHT20	4	5320	24.99	25.04	24.12	23.83	18.26	18.32	18.11	18.00
VHT40	4	5270	44.41	44.52	44.06	43.71	37.24	36.94	37.18	36.88
VHT40	4	5310	44.52	43.83	44.06	43.59	37.20	36.92	37.02	36.84
VHT80	4	5290	83.48	80.46	83.01	82.32	75.56	75.36	75.64	75.68

For Frequency band 5470~5725 MHz

Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	4	5500	22.96	23.59	23.25	23.59	16.89	17.04	16.97	16.98	24.00
11a	4	5580	23.01	23.71	23.48	23.77	16.90	17.08	17.00	16.97	24.00
11a	4	5700	23.13	23.88	23.30	23.59	16.93	17.06	17.01	16.96	24.00
VHT20	4	5500	24.87	25.16	24.29	23.88	18.25	18.29	18.11	18.00	24.00
VHT20	4	5580	25.04	25.04	24.58	24.00	18.26	18.34	18.14	17.98	24.00
VHT20	4	5700	25.16	25.04	24.29	23.94	18.26	18.32	18.14	17.99	24.00
VHT40	4	5510	44.52	44.41	44.29	43.83	37.24	36.86	37.10	36.82	24.00
VHT40	4	5590	44.41	44.75	44.64	44.29	37.28	36.84	37.08	36.92	24.00
VHT40	4	5670	44.52	44.99	44.64	44.29	37.22	36.94	37.02	36.92	24.00
VHT80	4	5530	83.48	80.23	83.01	82.32	75.60	75.44	75.64	75.76	24.00
VHT80	4	5610	95.77	85.57	96.00	85.10	75.68	75.40	75.76	75.96	24.00



For Frequency band 5725-5850 MHz										
Emission Bandwidth										
Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	4	5745	16.94	17.14	17.06	17.04	16.35	16.35	16.35	16.35
11a	4	5785	16.95	17.16	17.10	17.07	16.35	16.35	16.06	16.29
11a	4	5825	16.94	17.14	17.13	17.05	16.35	16.35	16.35	16.35
VHT20	4	5745	18.28	18.32	18.17	18.07	17.62	17.62	17.62	17.62
VHT20	4	5785	18.28	18.32	18.21	18.10	17.57	17.74	17.22	17.68
VHT20	4	5825	18.29	18.33	18.22	18.07	17.62	17.62	17.62	17.62
VHT40	4	5755	37.46	37.04	37.46	37.24	36.41	36.41	36.41	36.41
VHT40	4	5795	37.34	37.12	37.38	37.26	36.41	36.41	36.41	36.41
VHT80	4	5775	76.12	75.96	76.28	76.64	75.13	75.13	75.13	75.13



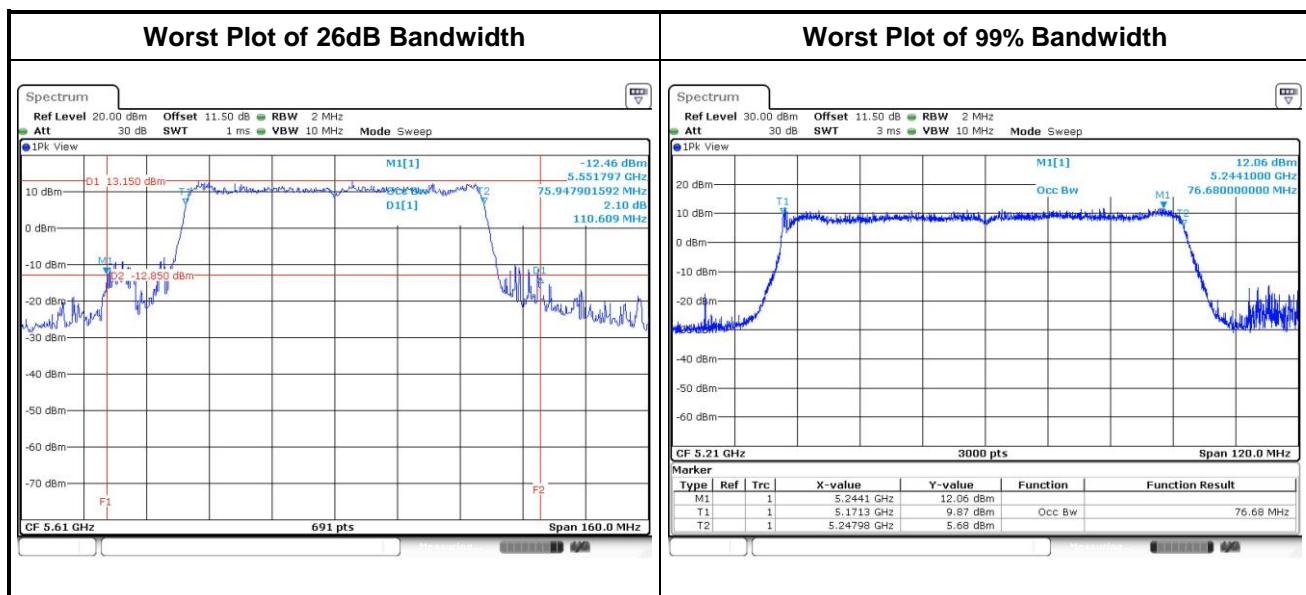
Beamforming mode

For Frequency band 5150~5250 MHz										
Emission Bandwidth										
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
VHT20	4	5180	23.59	24.35	23.13	24.00	18.20	18.14	18.18	18.13
VHT20	4	5200	24.87	25.80	23.54	23.94	18.22	18.08	18.16	18.12
VHT20	4	5240	23.88	28.64	23.48	24.70	18.17	18.17	18.13	18.13
VHT40	4	5190	43.83	43.83	43.13	42.55	37.02	37.02	37.02	36.90
VHT40	4	5230	56.35	67.94	52.06	59.71	37.20	37.06	37.08	37.10
VHT80	4	5210	83.25	82.55	82.78	82.32	76.68	75.72	75.80	75.72

For Frequency band 5250~5350 MHz										
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
VHT20	4	5260	26.32	26.61	24.93	23.88	18.20	18.14	18.12	18.14
VHT20	4	5300	28.75	25.22	24.06	24.52	18.16	18.13	18.16	18.21
VHT20	4	5320	23.71	28.06	24.06	25.16	18.18	18.25	18.21	18.18
VHT40	4	5270	55.65	69.33	56.46	60.06	37.04	37.08	37.22	37.12
VHT40	4	5310	51.71	63.77	43.94	42.90	37.10	37.02	37.10	36.90
VHT80	4	5290	85.33	81.16	83.71	81.62	75.80	75.88	75.76	75.76

For Frequency band 5470~5725 MHz

Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5500	29.57	27.88	24.46	25.04	18.20	18.14	18.02	18.13	24.00
VHT20	4	5580	25.68	28.29	23.83	24.75	18.18	18.15	18.15	18.20	24.00
VHT20	4	5700	23.25	23.77	23.59	24.46	18.19	18.11	18.20	18.15	24.00
VHT40	4	5510	55.54	44.29	56.00	58.09	37.00	36.96	37.12	37.04	24.00
VHT40	4	5590	66.55	68.75	67.48	61.45	37.16	37.24	37.06	36.92	24.00
VHT40	4	5670	59.71	69.80	66.67	65.97	37.20	37.14	37.08	37.08	24.00
VHT80	4	5530	92.75	85.80	81.62	82.78	75.68	75.88	75.76	75.76	24.00
VHT80	4	5610	110.61	107.83	100.64	105.74	75.84	75.72	75.72	75.72	24.00

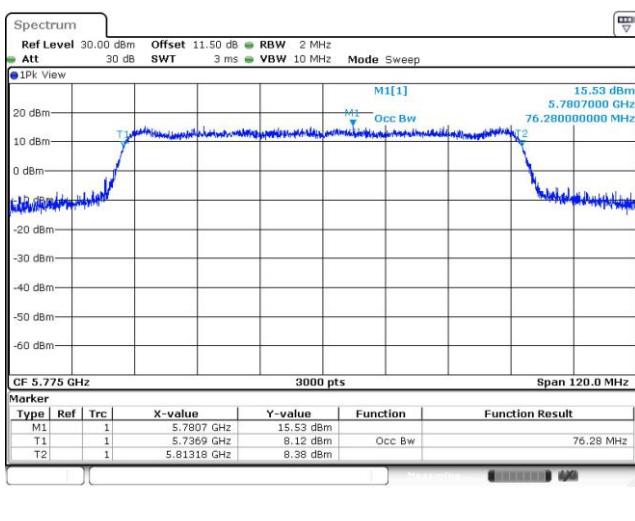


For Frequency band 5725-5850 MHz

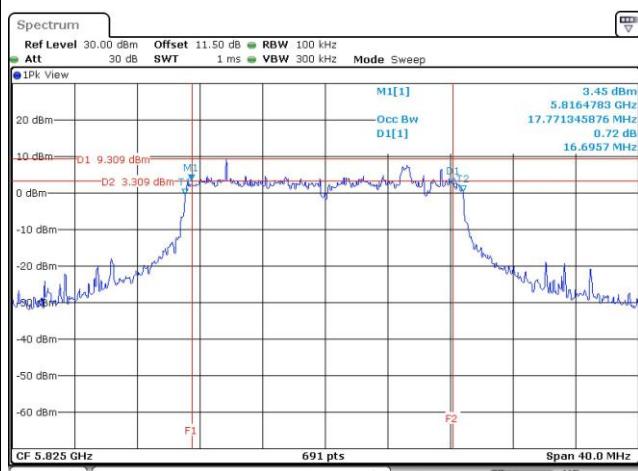
Emission Bandwidth

Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				6dB BW Limit (MHz)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
VHT20	4	5745	18.33	18.14	18.21	18.15	17.74	17.86	17.74	16.87	0.5
VHT20	4	5785	18.28	18.20	18.22	18.14	17.57	17.68	17.62	17.62	0.5
VHT20	4	5825	18.27	18.21	18.22	18.19	17.16	17.28	17.45	16.70	0.5
VHT40	4	5755	37.38	37.30	37.22	37.20	35.71	36.17	36.52	36.52	0.5
VHT40	4	5795	37.36	37.46	37.14	37.18	36.52	36.41	36.52	36.41	0.5
VHT80	4	5775	76.12	76.28	76.20	76.08	73.97	75.13	74.44	75.13	0.5

Worst Plot of 99% Bandwidth



Worst Plot of 6dB Bandwidth



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
<input type="checkbox"/> Indoor access point	Conducted Power: 1 W
<input type="checkbox"/> Fixed point-to-point access points	Conducted Power: 1 W
<input checked="" type="checkbox"/> Client devices	Conducted Power: 250 mW

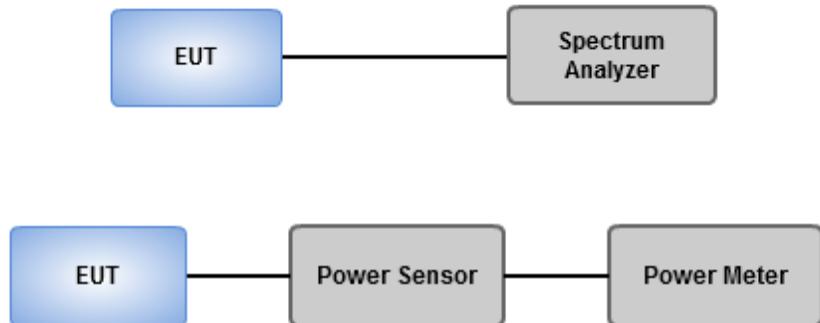
Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5470 ~ 5725	250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.3.2 Test Procedures

- Power meter (For channel that does not extends across the 5.725 GHz boundary)
 - Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required
- Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)
 1. Set RBW=1MHz, VBW=3MHz , Sweep time= Auto, Detector = RMS
 2. Trace average at least 100 traces in power averaging mode
 3. Compute power by integrating the spectrum across the 26 dB EBW

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Non-beamforming mode

For Frequency band 5150~5250 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5180	15.08	15.26	14.9	15.44	131.682	21.20	24.00
11a	4	5200	15.02	15.46	14.86	15.59	133.769	21.26	24.00
11a	4	5240	15.15	15.56	15.1	15.36	135.424	21.32	24.00
HT20	4	5180	14.92	15.41	14.68	15.32	129.217	21.11	24.00
HT20	4	5200	15.14	15.39	14.52	15.51	131.130	21.18	24.00
HT20	4	5240	15.09	15.68	14.91	15.43	135.156	21.31	24.00
HT40	4	5190	16.02	16.31	15.84	16.58	166.620	22.22	24.00
HT40	4	5230	17.21	17.64	17.42	17.61	223.563	23.49	24.00
VHT20	4	5180	15.06	15.54	14.83	15.46	133.437	21.25	24.00
VHT20	4	5200	15.29	15.52	14.68	15.65	135.556	21.32	24.00
VHT20	4	5240	15.25	15.82	15.03	15.58	139.674	21.45	24.00
VHT40	4	5190	16.15	16.48	16.02	16.71	172.549	22.37	24.00
VHT40	4	5230	17.35	17.76	17.57	17.75	230.743	23.63	24.00
VHT80	4	5210	15.15	15.43	15.01	15.33	133.463	21.25	24.00

For Frequency band 5250~5350 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5260	15.45	15.61	15.28	15.72	142.520	21.54	24.00
11a	4	5300	15.02	15.45	15.25	15.52	135.986	21.33	24.00
11a	4	5320	15.29	15.5	15.45	15.67	141.261	21.50	24.00
HT20	4	5260	14.78	15.21	15.28	15.71	134.218	21.28	24.00
HT20	4	5300	14.92	15.26	15.18	15.69	134.648	21.29	24.00
HT20	4	5320	15.02	15.48	15.24	15.71	137.746	21.39	24.00
HT40	4	5270	17.12	17.28	17.13	17.76	216.324	23.35	24.00
HT40	4	5310	16.25	16.61	16.78	16.41	179.379	22.54	24.00
VHT20	4	5260	14.91	15.34	15.4	15.83	138.128	21.40	24.00
VHT20	4	5300	15.02	15.41	15.31	15.81	138.591	21.42	24.00
VHT20	4	5320	15.11	15.6	15.39	15.85	141.795	21.52	24.00
VHT40	4	5270	17.28	17.43	17.25	17.91	223.682	23.50	24.00
VHT40	4	5310	16.38	16.73	16.91	16.53	184.618	22.66	24.00
VHT80	4	5290	14.85	15.12	15.10	15.22	128.683	21.10	24.00

For Frequency band 5470~5725 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5500	14.35	15.41	15.36	15.64	132.980	21.24	24.00
11a	4	5580	14.25	15.38	15.04	15.49	128.437	21.09	24.00
11a	4	5700	14.57	15.71	15.39	16.15	141.685	21.51	24.00
HT20	4	5500	13.84	15.52	15.41	15.69	131.677	21.20	24.00
HT20	4	5580	13.78	15.21	15.14	15.36	124.082	20.94	24.00
HT20	4	5700	14.48	15.56	15.48	15.92	138.432	21.41	24.00
HT40	4	5510	16.35	16.82	17.04	16.72	188.808	22.76	24.00
HT40	4	5590	16.44	17.41	17.32	17.69	211.836	23.26	24.00
HT40	4	5670	16.28	17.15	17.26	17.40	202.507	23.06	24.00
VHT20	4	5500	14.02	15.64	15.59	15.82	136.297	21.34	24.00
VHT20	4	5580	13.91	15.33	15.28	15.52	128.097	21.08	24.00
VHT20	4	5700	14.62	15.71	15.6	16.11	143.352	21.56	24.00
VHT40	4	5510	16.47	16.97	17.16	16.86	194.663	22.89	24.00
VHT40	4	5590	16.58	17.55	17.48	17.82	218.894	23.40	24.00
VHT40	4	5670	16.43	17.31	17.38	17.52	208.976	23.20	24.00
VHT80	4	5530	15.02	15.62	15.33	15.32	136.404	21.35	24.00
VHT80	4	5610	16.35	17.29	17.08	17.26	200.993	23.03	24.00

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	4	5745	17.61	18.06	18.33	18.4	258.910	24.13	30.00
11a	4	5785	17.68	18.15	18.11	18.54	260.091	24.15	30.00
11a	4	5825	17.61	18.32	18.16	18.74	265.878	24.25	30.00
HT20	4	5745	17.28	18.21	18.06	18.42	253.154	24.03	30.00
HT20	4	5785	17.61	18.13	18.02	18.54	257.526	24.11	30.00
HT20	4	5825	17.52	18.33	18.09	18.81	265.020	24.23	30.00
HT40	4	5755	18.92	19.35	19.21	19.69	340.561	25.32	30.00
HT40	4	5795	18.85	19.34	19.31	19.95	346.803	25.40	30.00
VHT20	4	5745	17.41	18.36	18.19	18.59	261.824	24.18	30.00
VHT20	4	5785	17.75	18.22	18.15	18.68	265.044	24.23	30.00
VHT20	4	5825	17.65	18.41	18.22	18.92	271.910	24.34	30.00
VHT40	4	5755	19.07	19.52	19.35	19.86	353.187	25.48	30.00
VHT40	4	5795	19.02	19.45	19.46	20.10	358.542	25.55	30.00
VHT80	4	5775	18.78	19.09	19.12	19.31	323.574	25.10	30.00

Beamforming mode

For Frequency band 5150~5250 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5180	17.37	17.26	16.92	17.04	207.573	23.17	23.70
VHT20	4	5200	17.39	17.63	17.02	17.35	217.446	23.37	23.70
VHT20	4	5240	17.03	17.39	17.11	17.31	210.525	23.23	23.70
VHT40	4	5190	15.31	15.27	15.25	15.63	137.670	21.39	23.70
VHT40	4	5230	17.23	17.65	17.26	17.11	215.670	23.34	23.70
VHT80	4	5210	15.04	15.14	15.27	15.36	132.581	21.22	23.70

For Frequency band 5250~5350 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5260	17.52	17.41	16.79	16.82	207.411	23.17	23.70
VHT20	4	5300	17.11	16.94	16.88	17.27	202.922	23.07	23.70
VHT20	4	5320	16.92	16.83	17.08	16.95	197.994	22.97	23.70
VHT40	4	5270	17.16	17.52	17.22	17.45	216.807	23.36	23.70
VHT40	4	5310	15.22	15.38	15.51	15.27	136.995	21.37	23.70
VHT80	4	5290	15.06	15.02	15.07	15.12	128.477	21.09	23.70

For Frequency band 5470~5725 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5500	16.97	17.24	17.32	16.78	204.334	23.10	23.70
VHT20	4	5580	16.86	17.35	16.86	17.11	202.787	23.07	23.70
VHT20	4	5700	15.42	15.09	15.06	15.26	132.755	21.23	23.70
VHT40	4	5510	15.23	15.46	15.67	15.59	141.621	21.51	23.70
VHT40	4	5590	17.11	17.45	17.77	17.77	226.677	23.55	23.70
VHT40	4	5670	16.79	17.16	16.79	17.32	201.457	23.04	23.70
VHT80	4	5530	15.03	15.57	15.53	15.02	135.396	21.32	23.70
VHT80	4	5610	15.63	16.64	16.61	16.24	170.578	22.32	23.70

Note:

Directional gain = 3.29 dBi+10log(4/2) =6.30 dBi > 6 dBi

Limit shall be reduced to 24 dBm – (6.3dBi – 6 dBi) = 23.70 dBm.

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
VHT20	4	5745	17.89	17.96	17.78	18.49	254.646	24.06	29.70
VHT20	4	5785	18.23	17.96	17.66	18.29	254.842	24.06	29.70
VHT20	4	5825	17.99	17.99	17.78	18.32	253.801	24.04	29.70
VHT40	4	5755	18.79	19.22	18.76	19.34	320.307	25.06	29.70
VHT40	4	5795	18.56	19.11	19.89	19.26	335.082	25.25	29.70
VHT80	4	5775	19.01	19.06	19.12	19.04	321.980	25.08	29.70

Note:

Directional gain = 3.29 dB_i+10log(4/2) =6.30 dB_i > 6 dB_i

Limit shall be reduced to 30 dBm – (6.30dB_i – 6 dB_i) = 29.70 dBm.

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> Outdoor access point	17 dBm / MHz
<input type="checkbox"/> Indoor access point	17 dBm / MHz
<input type="checkbox"/> Fixed point-to-point access points	17 dBm / MHz
<input checked="" type="checkbox"/> Client devices	11 dBm / MHz

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/> 5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/> 5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

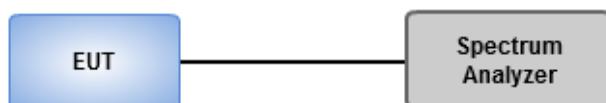
For 5150~5250 MHz, 5250~5350 MHz, 5470~5725 MHz

- Method SA-1 (For non-beamforming 11ac VHT20 / VHT40)
 1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
 2. Trace average 100 traces.
 3. Use the peak marker function to determine the maximum amplitude level.
- Method SA-2 Alternative (For non-beamforming 11a, 11ac VHT80, Beamforming: all modes)
 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
 3. Perform a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.
 5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725~5850 MHz

- Method SA-1 (For non-beamforming 11ac VHT20 / VHT40)
 1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
 2. Trace average 100 traces.
 3. Use the peak marker function to determine the maximum amplitude level.
- Method SA-2 Alternative (For non-beamforming 11a, 11ac VHT80, Beamforming: all modes)
 1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
 3. Perform a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.
 5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	4	5180	7.28	0.35	7.63	7.91
11a	4	5200	7.30	0.35	7.65	7.91
11a	4	5240	7.25	0.35	7.60	7.91
VHT20	4	5180	7.62	0.00	7.62	7.91
VHT20	4	5200	7.63	0.00	7.63	7.91
VHT20	4	5240	7.62	0.00	7.62	7.91
VHT40	4	5190	6.51	0.00	6.51	7.91
VHT40	4	5230	7.00	0.00	7.00	7.91
VHT80	4	5210	-1.84	0.17	-1.67	7.91
11a	4	5260	7.27	0.35	7.62	7.91
11a	4	5300	6.80	0.35	7.15	7.91
11a	4	5320	6.81	0.35	7.16	7.91
VHT20	4	5260	7.01	0.00	7.01	7.91
VHT20	4	5300	7.33	0.00	7.33	7.91
VHT20	4	5320	7.39	0.00	7.39	7.91
VHT40	4	5270	6.56	0.00	6.56	7.91
VHT40	4	5310	6.28	0.00	6.28	7.91
VHT80	4	5290	-2.30	0.17	-2.13	7.91

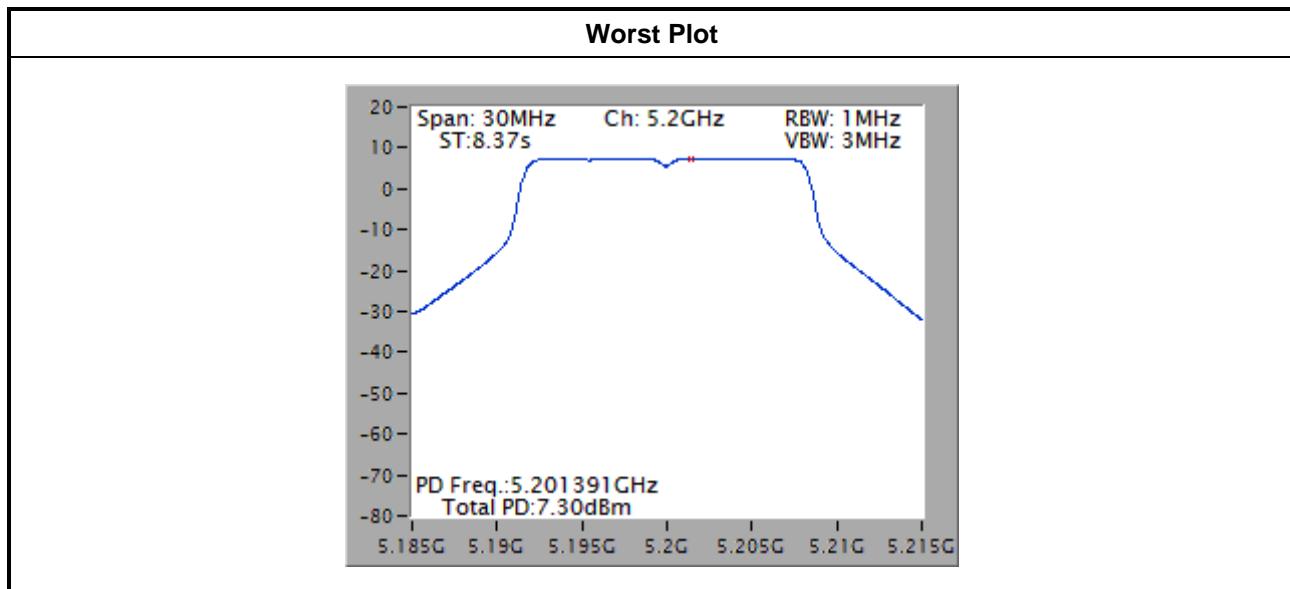
Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{3.25/20} + 10^{3.17/20} + 10^{2.84/20} + 10^{3.03/20})^2/4) = 9.09 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to $11 \text{ dBm} - (9.09 \text{ dBi} - 6 \text{ dBi}) = 7.91 \text{ dBm}$

Frequency band			5470~5725 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	4	5500	6.91	0.35	7.26	7.91
11a	4	5580	6.54	0.35	6.89	7.91
11a	4	5700	6.97	0.35	7.32	7.91
VHT20	4	5500	7.44	0.00	7.44	7.91
VHT20	4	5580	7.35	0.00	7.35	7.91
VHT20	4	5700	7.30	0.00	7.30	7.91
VHT40	4	5510	6.04	0.00	6.04	7.91
VHT40	4	5590	6.78	0.00	6.78	7.91
VHT40	4	5670	7.05	0.00	7.05	7.91
VHT80	4	5530	-1.63	0.17	-1.46	7.91
VHT80	4	5610	-0.21	0.17	-0.04	7.91

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{3.25/20} + 10^{3.17/20} + 10^{2.84/20} + 10^{3.03/20})^2/4) = 9.09 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to $11 \text{ dBm} - (9.09 \text{ dBi} - 6 \text{ dBi}) = 7.91 \text{ dBm}$

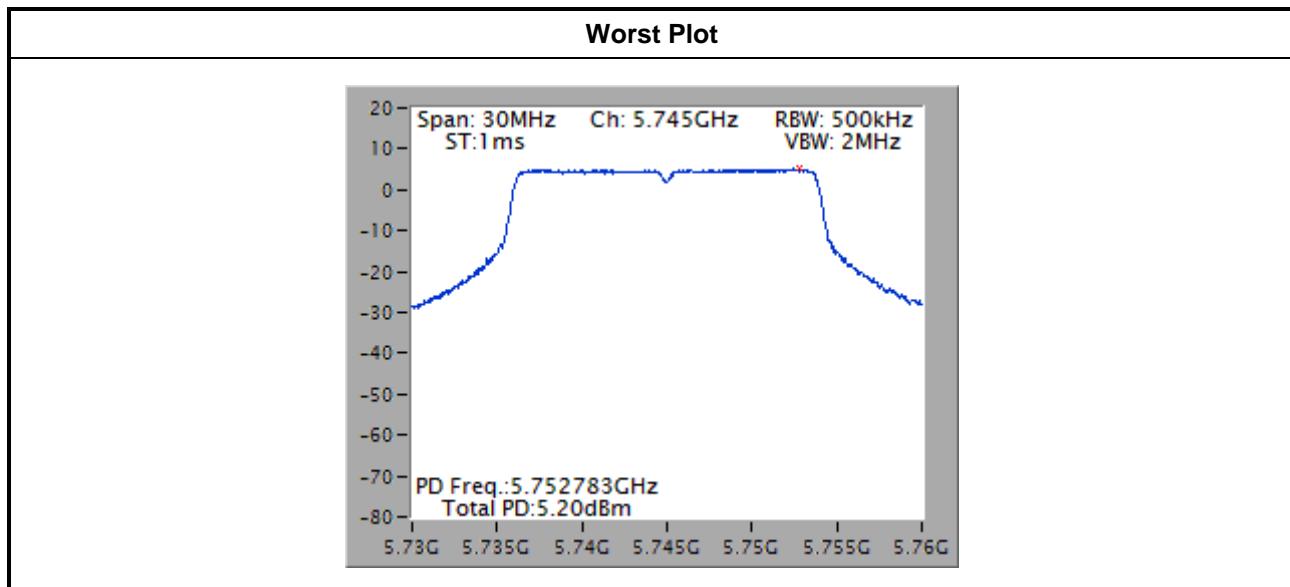


Note: Power density plot without duty factor.

Frequency band			5725-5850 MHz			
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N _{TX}	Freq. MHz	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	4	5745	4.74	0.35	5.09	26.91
11a	4	5785	4.69	0.35	5.04	26.91
11a	4	5825	4.61	0.35	4.96	26.91
VHT20	4	5745	5.20	0.00	5.20	26.91
VHT20	4	5785	5.14	0.00	5.14	26.91
VHT20	4	5825	4.87	0.00	4.87	26.91
VHT40	4	5755	3.13	0.00	3.13	26.91
VHT40	4	5795	3.04	0.00	3.04	26.91
VHT80	4	5775	0.23	0.17	0.40	26.91

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $10 * \log((10^{3.25/20} + 10^{3.17/20} + 10^{2.84/20} + 10^{3.03/20})^2/4) = 9.09 \text{ dBi} > 6 \text{ dB}$
Limit shall be reduced to $30 \text{ dBm} - (9.09 \text{ dBi} - 6 \text{ dB}) = 26.91 \text{ dBm}$



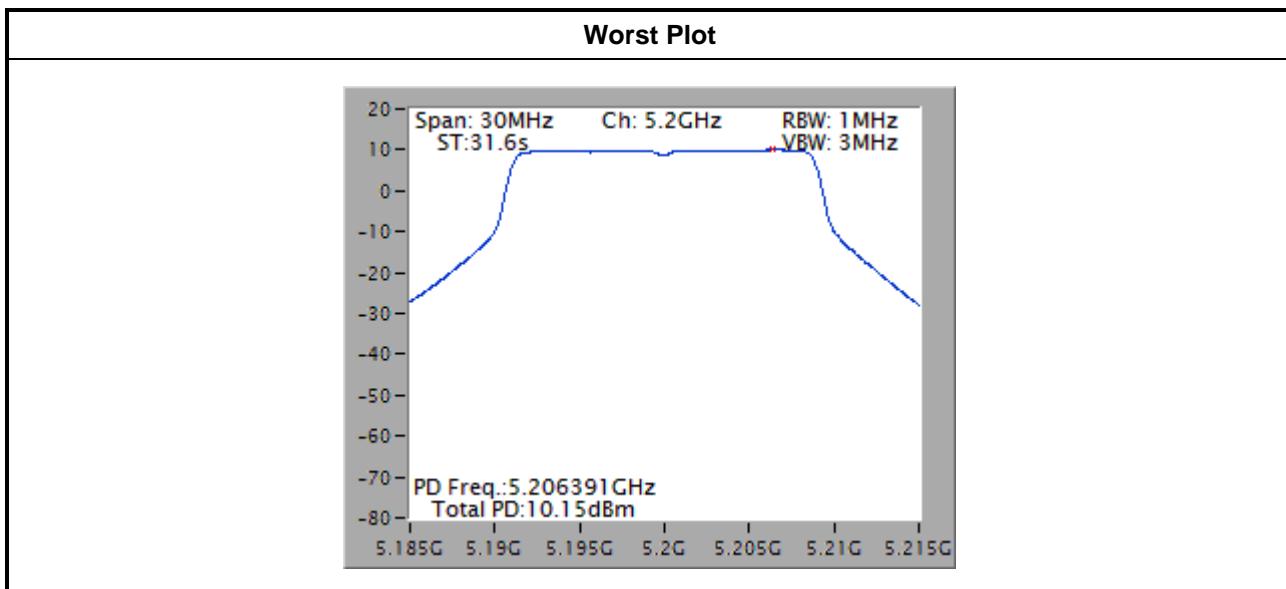
Beamforming mode

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
VHT20	4	5180	10.06	0.20	10.26	10.70
VHT20	4	5200	10.15	0.20	10.35	10.70
VHT20	4	5240	10.12	0.20	10.32	10.70
VHT40	4	5190	5.02	0.56	5.58	10.70
VHT40	4	5230	7.62	0.56	8.18	10.70
VHT80	4	5210	2.52	0.25	2.77	10.70
VHT20	4	5260	9.94	0.20	10.14	10.70
VHT20	4	5300	9.97	0.20	10.17	10.70
VHT20	4	5320	9.64	0.20	9.84	10.70
VHT40	4	5270	6.98	0.56	7.54	10.70
VHT40	4	5310	4.58	0.56	5.14	10.70
VHT80	4	5290	2.61	0.25	2.86	10.70

Frequency band			5470~5725 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
VHT20	4	5500	9.96	0.20	10.16	10.70
VHT20	4	5580	9.86	0.20	10.06	10.70
VHT20	4	5700	8.08	0.20	8.28	10.70
VHT40	4	5510	5.06	0.56	5.62	10.70
VHT40	4	5590	7.41	0.56	7.97	10.70
VHT40	4	5670	6.50	0.56	7.06	10.70
VHT80	4	5530	2.51	0.25	2.76	10.70
VHT80	4	5610	3.22	0.25	3.47	10.70

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $3.29 \text{ dBi} + 10\log(4/2) = 6.30 \text{ dBi} > 6 \text{ dBi}$
 Limit shall be reduced to $11 \text{ dBm} - (6.30 \text{ dBi} - 6 \text{ dBi}) = 10.70 \text{ dBm}$.

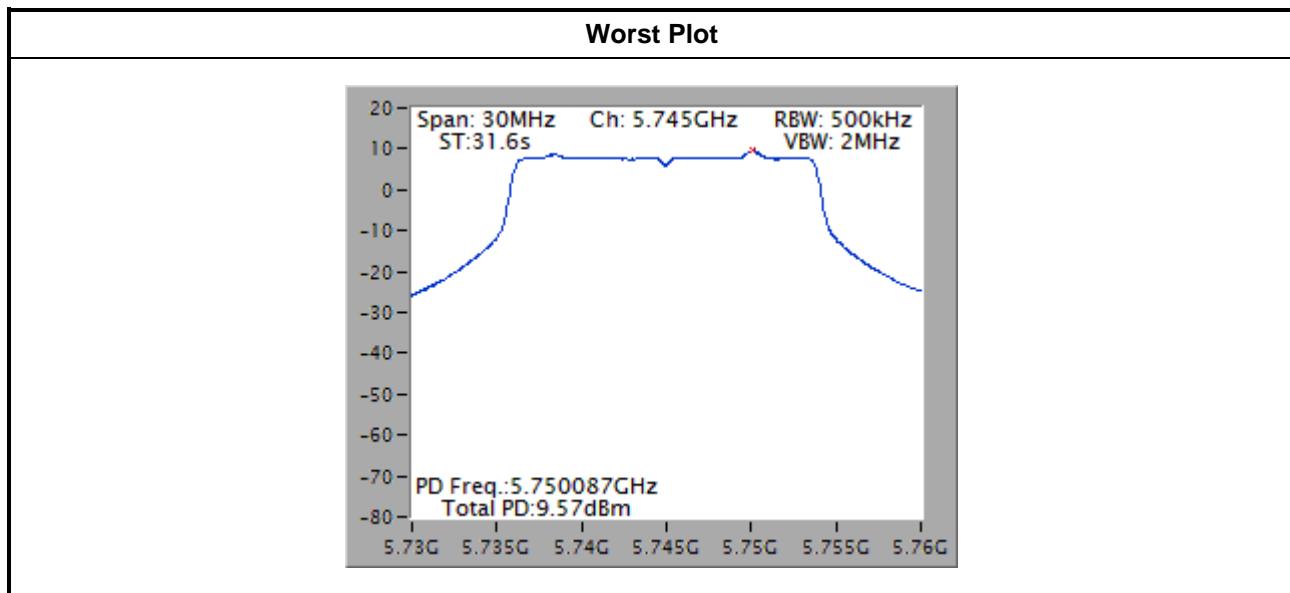


Note: Power density plot without duty factor.

For Frequency band			5725-5850 MHz			
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
VHT20	4	5745	9.57	0.20	9.77	29.70
VHT20	4	5785	9.46	0.20	9.66	29.70
VHT20	4	5825	9.62	0.20	9.82	29.70
VHT40	4	5755	6.83	0.56	7.39	29.70
VHT40	4	5795	7.32	0.56	7.88	29.70
VHT80	4	5775	5.07	0.25	5.32	29.70

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = $3.29 \text{ dBi} + 10\log(4/2) = 6.30 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to $30 \text{ dBm} - (6.30 \text{ dBi} - 6 \text{ dBi}) = 29.70 \text{ dBm}$.



Note: Power density plot without duty factor.

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit		
Operating Band	Limit	
5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]	
5.725 - 5.850 GHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	
	<input type="checkbox"/> 15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see § 15.205(c))	
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		

3.5.2 Test Procedures

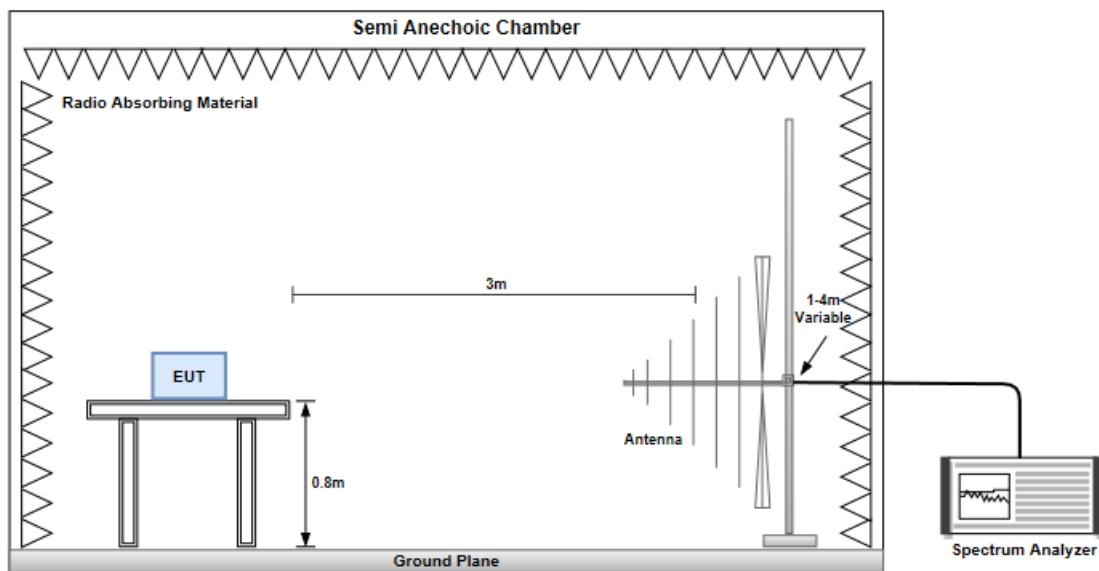
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

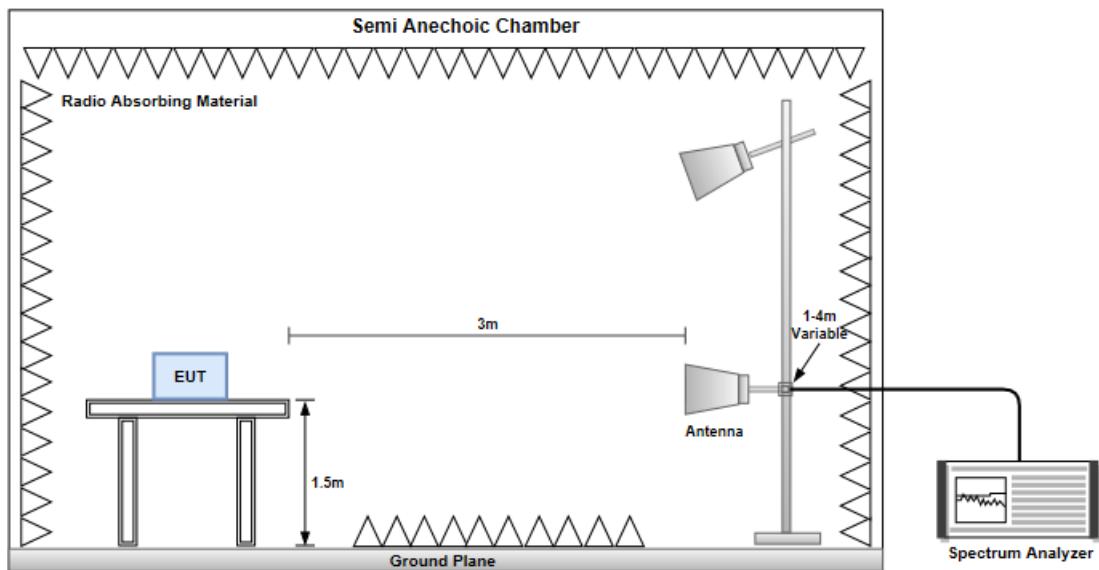
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

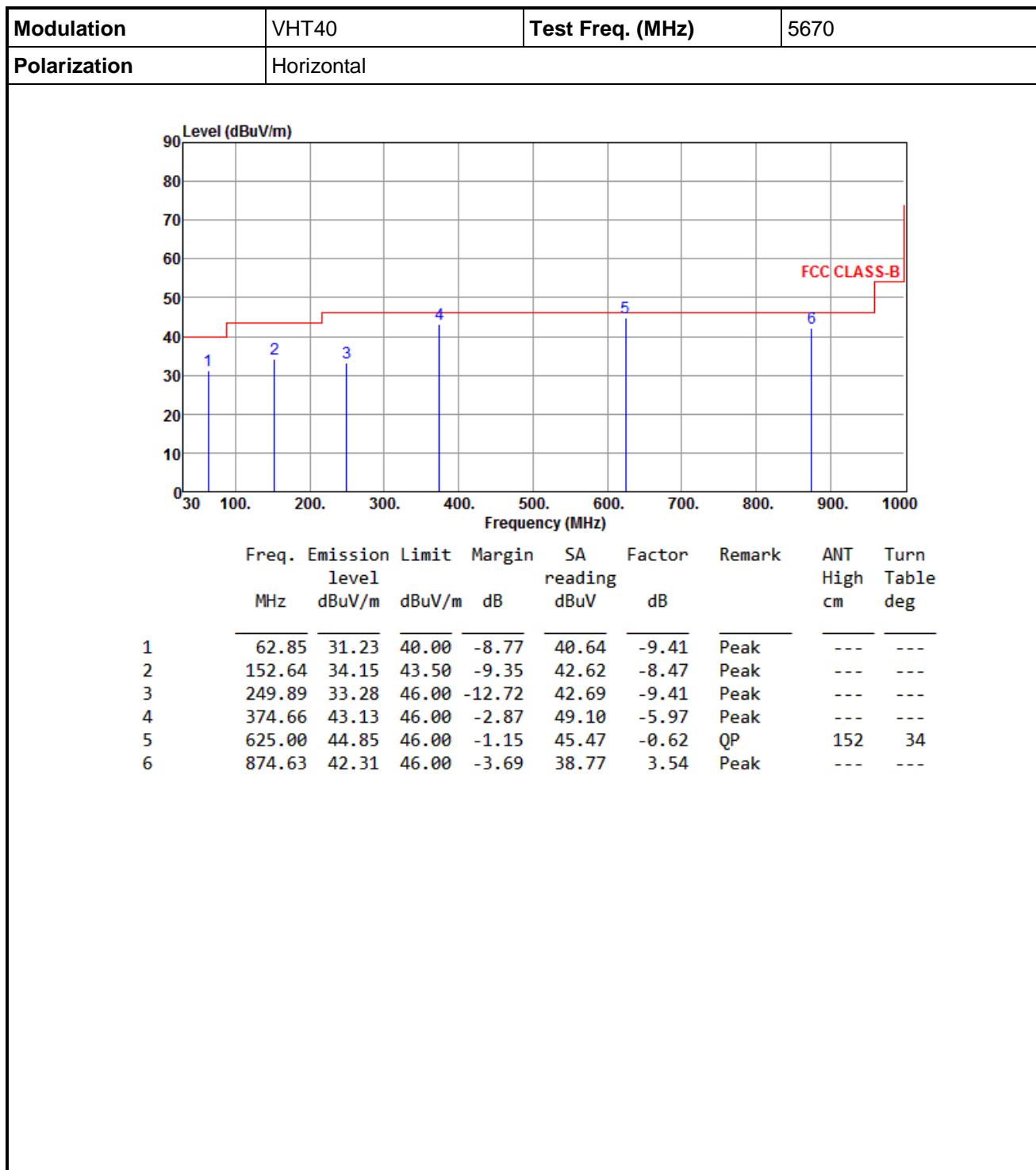


Radiated Emissions above 1 GHz



Model Name: Kamai751Q
Non-beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

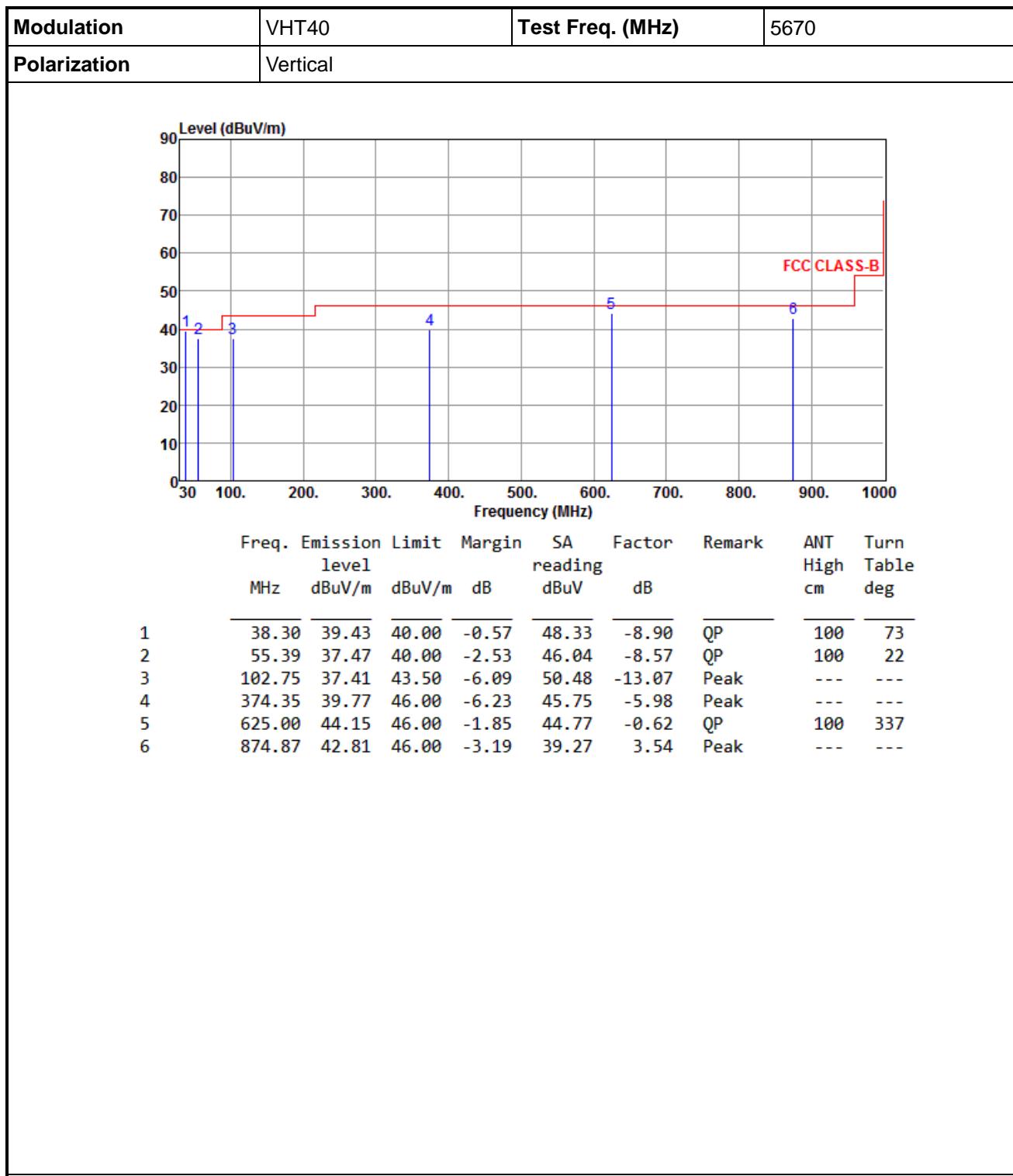


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

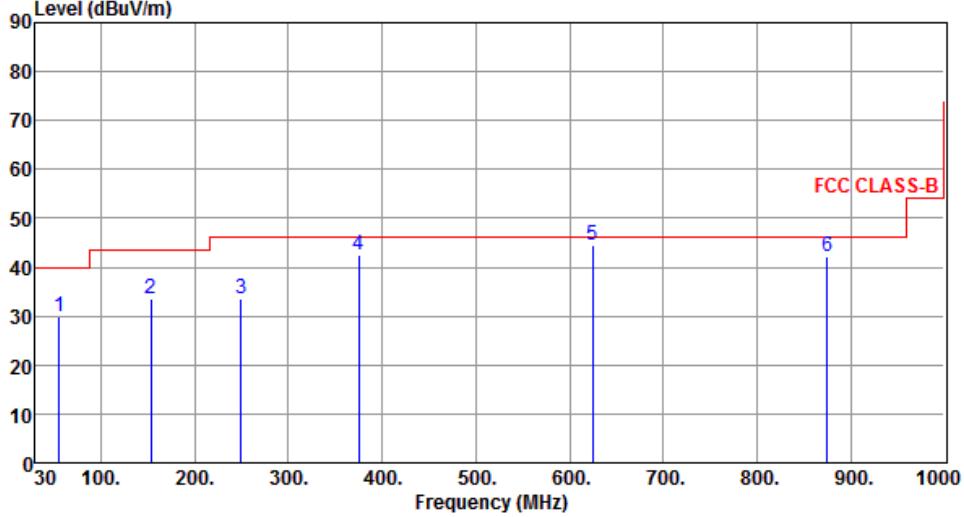


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

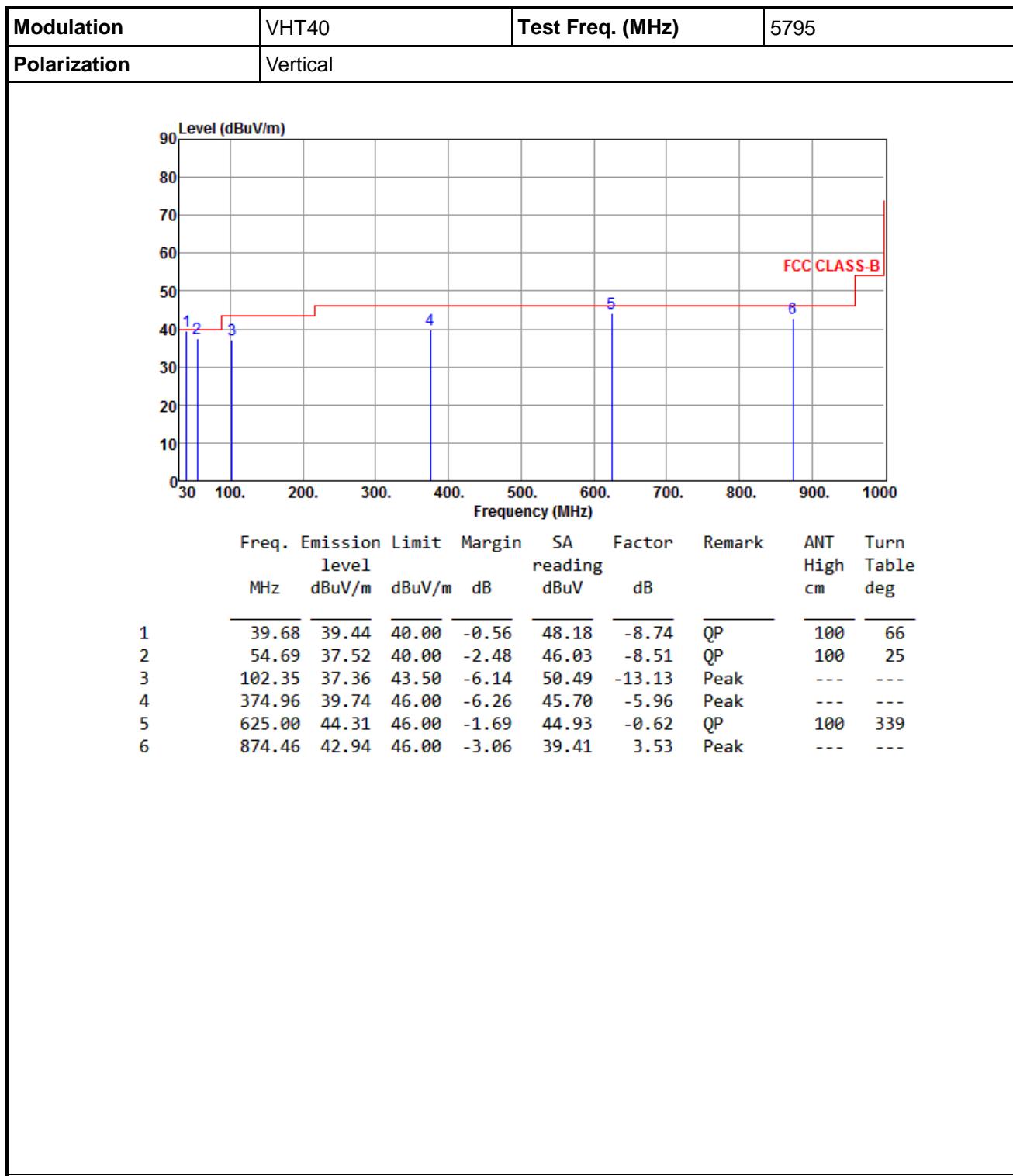
Modulation	VHT40	Test Freq. (MHz)	5795																																																																												
Polarization	Horizontal																																																																														
																																																																															
<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>55.74</td> <td>29.77</td> <td>40.00</td> <td>-10.23</td> <td>38.36</td> <td>-8.59</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>153.66</td> <td>33.61</td> <td>43.50</td> <td>-9.89</td> <td>42.07</td> <td>-8.46</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>249.68</td> <td>33.56</td> <td>46.00</td> <td>-12.44</td> <td>42.98</td> <td>-9.42</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>375.38</td> <td>42.44</td> <td>46.00</td> <td>-3.56</td> <td>48.38</td> <td>-5.94</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>625.00</td> <td>44.58</td> <td>46.00</td> <td>-1.42</td> <td>45.20</td> <td>-0.62</td> <td>QP</td> <td>151</td> <td>48</td> </tr> <tr> <td>6</td> <td>874.67</td> <td>42.21</td> <td>46.00</td> <td>-3.79</td> <td>38.67</td> <td>3.54</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>				Freq.	Emission level	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dB		cm	deg	1	55.74	29.77	40.00	-10.23	38.36	-8.59	Peak	---	---	2	153.66	33.61	43.50	-9.89	42.07	-8.46	Peak	---	---	3	249.68	33.56	46.00	-12.44	42.98	-9.42	Peak	---	---	4	375.38	42.44	46.00	-3.56	48.38	-5.94	Peak	---	---	5	625.00	44.58	46.00	-1.42	45.20	-0.62	QP	151	48	6	874.67	42.21	46.00	-3.79	38.67	3.54	Peak	---	---
Freq.	Emission level	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																								
MHz	dBuV/m	dBuV/m	dB	dB		cm	deg																																																																								
1	55.74	29.77	40.00	-10.23	38.36	-8.59	Peak	---	---																																																																						
2	153.66	33.61	43.50	-9.89	42.07	-8.46	Peak	---	---																																																																						
3	249.68	33.56	46.00	-12.44	42.98	-9.42	Peak	---	---																																																																						
4	375.38	42.44	46.00	-3.56	48.38	-5.94	Peak	---	---																																																																						
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6	874.67	42.21	46.00	-3.79	38.67	3.54	Peak	---	---																																																																						

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



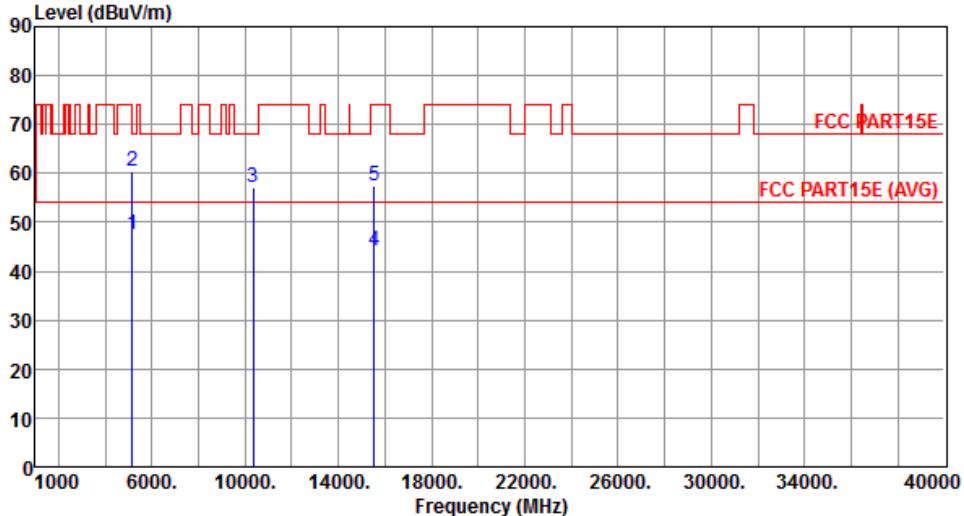
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

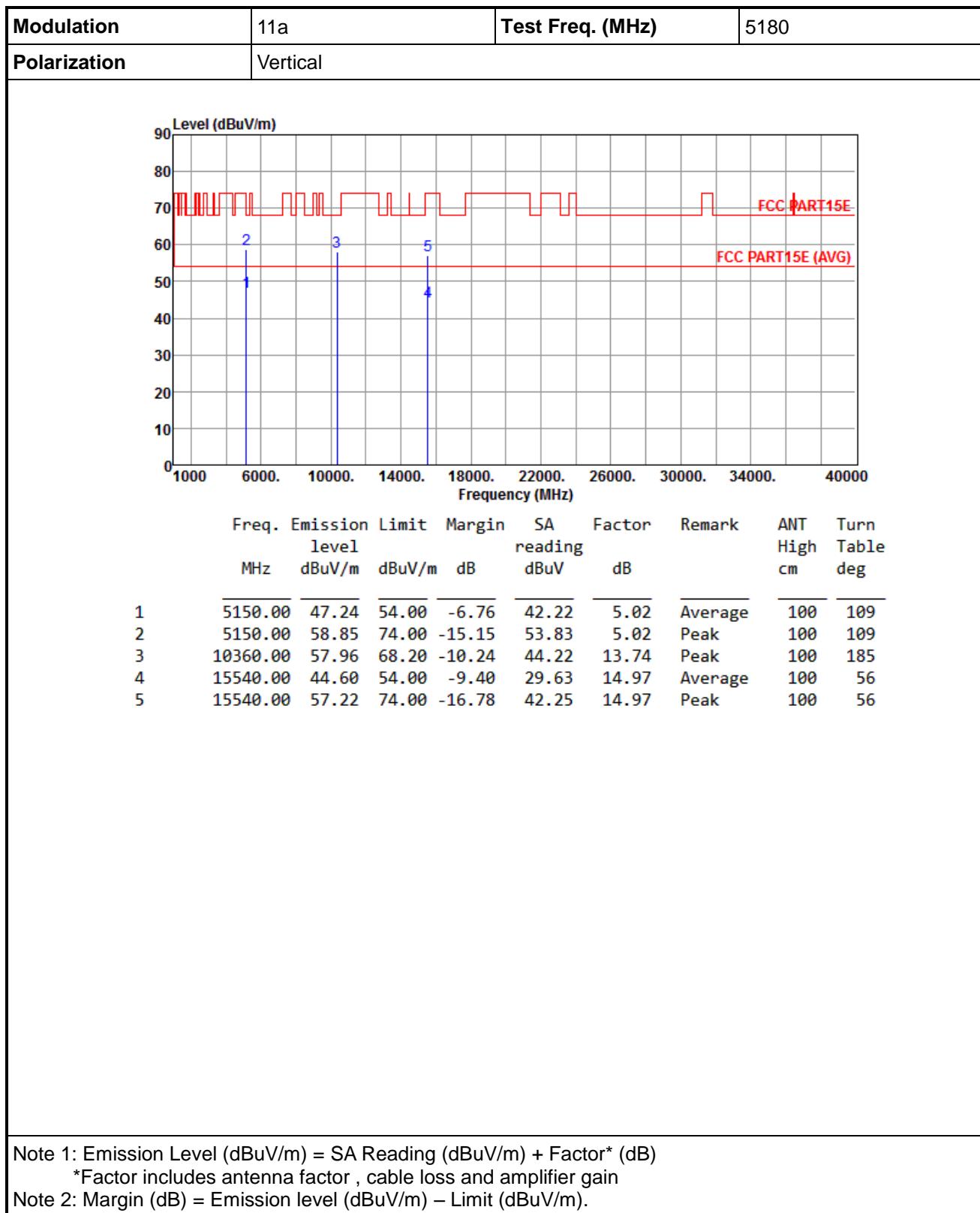
*Factor includes antenna factor , cable loss and amplifier gain

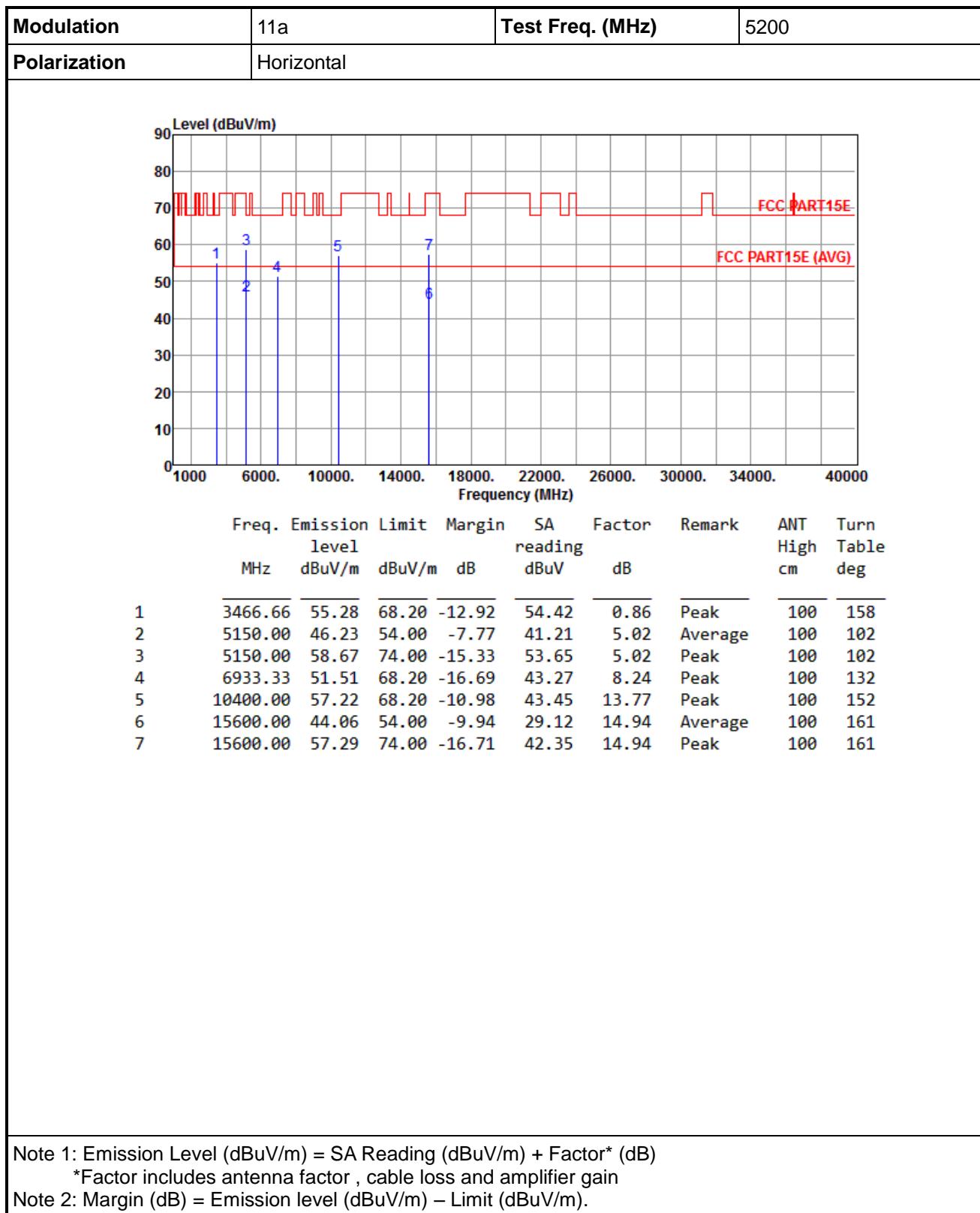
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

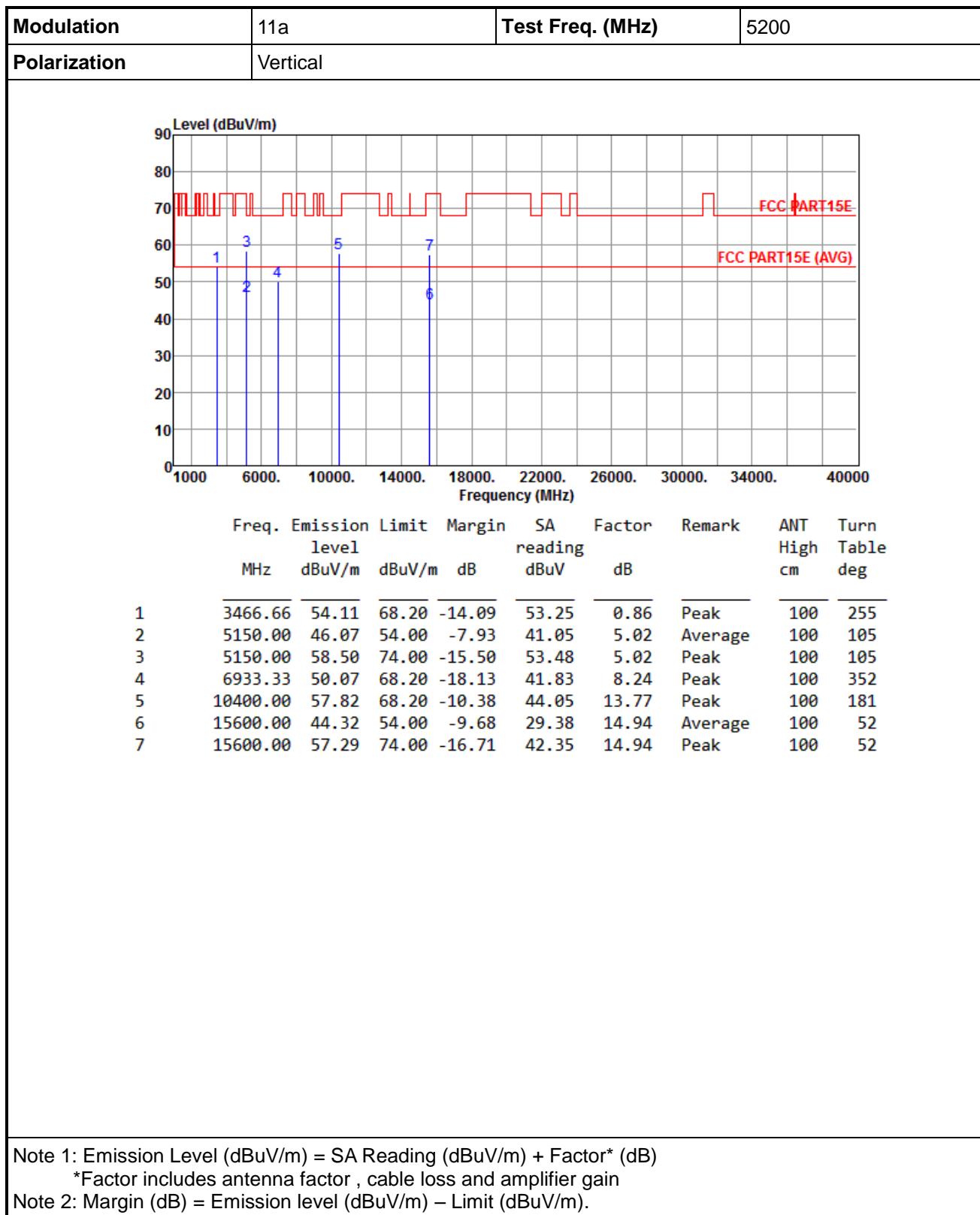
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

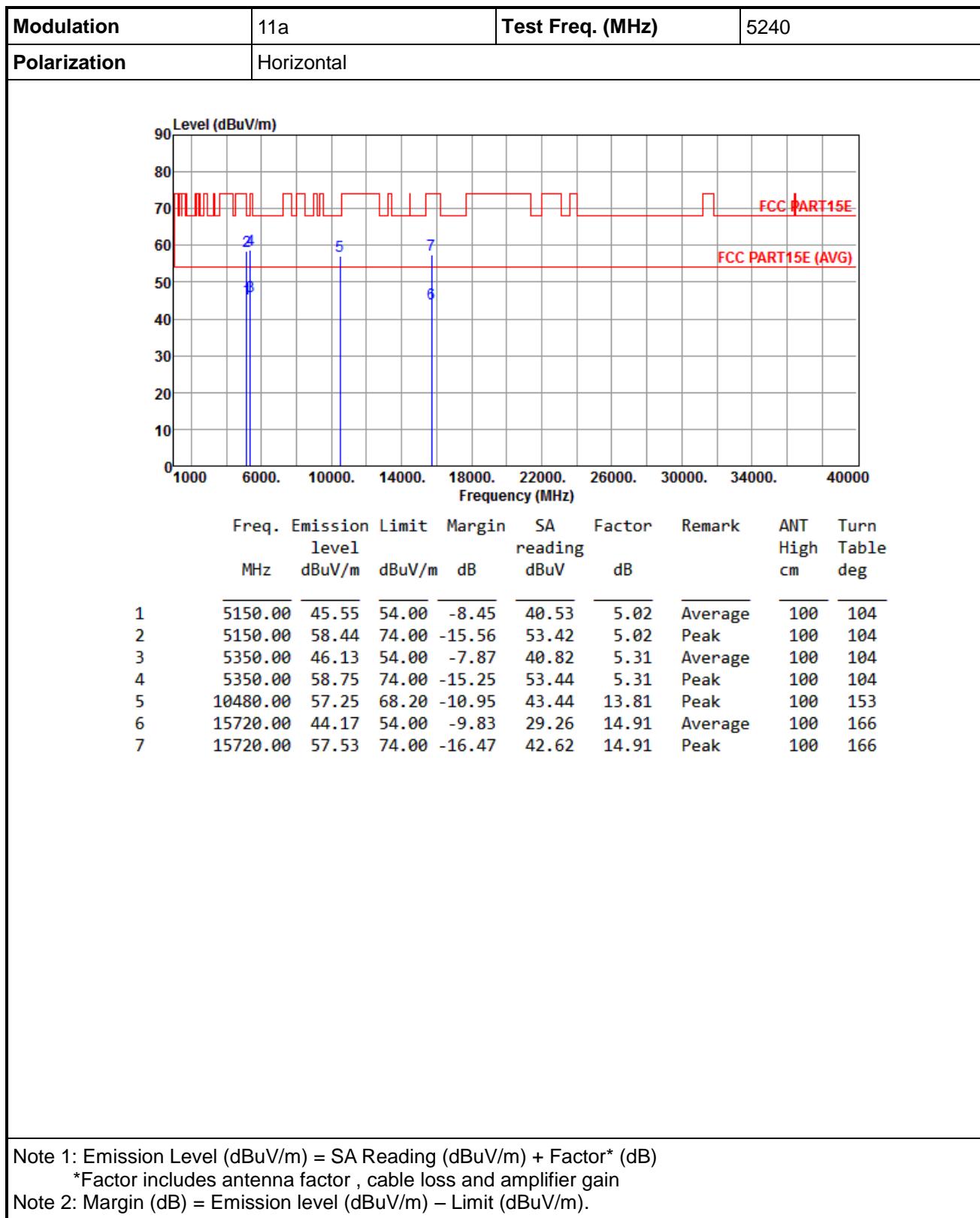
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>47.35</td> <td>54.00</td> <td>-6.65</td> <td>42.33</td> <td>5.02</td> <td>Average</td> <td>100</td> <td>103</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>60.55</td> <td>74.00</td> <td>-13.45</td> <td>55.53</td> <td>5.02</td> <td>Peak</td> <td>100</td> <td>103</td> </tr> <tr> <td>3</td> <td>10360.00</td> <td>57.12</td> <td>68.20</td> <td>-11.08</td> <td>43.38</td> <td>13.74</td> <td>Peak</td> <td>100</td> <td>150</td> </tr> <tr> <td>4</td> <td>15540.00</td> <td>44.34</td> <td>54.00</td> <td>-9.66</td> <td>29.37</td> <td>14.97</td> <td>Average</td> <td>100</td> <td>163</td> </tr> <tr> <td>5</td> <td>15540.00</td> <td>57.39</td> <td>74.00</td> <td>-16.61</td> <td>42.42</td> <td>14.97</td> <td>Peak</td> <td>100</td> <td>163</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	47.35	54.00	-6.65	42.33	5.02	Average	100	103	2	5150.00	60.55	74.00	-13.45	55.53	5.02	Peak	100	103	3	10360.00	57.12	68.20	-11.08	43.38	13.74	Peak	100	150	4	15540.00	44.34	54.00	-9.66	29.37	14.97	Average	100	163	5	15540.00	57.39	74.00	-16.61	42.42	14.97	Peak	100	163
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	47.35	54.00	-6.65	42.33	5.02	Average	100	103																																																					
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4	15540.00	44.34	54.00	-9.66	29.37	14.97	Average	100	163																																																					
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<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																														





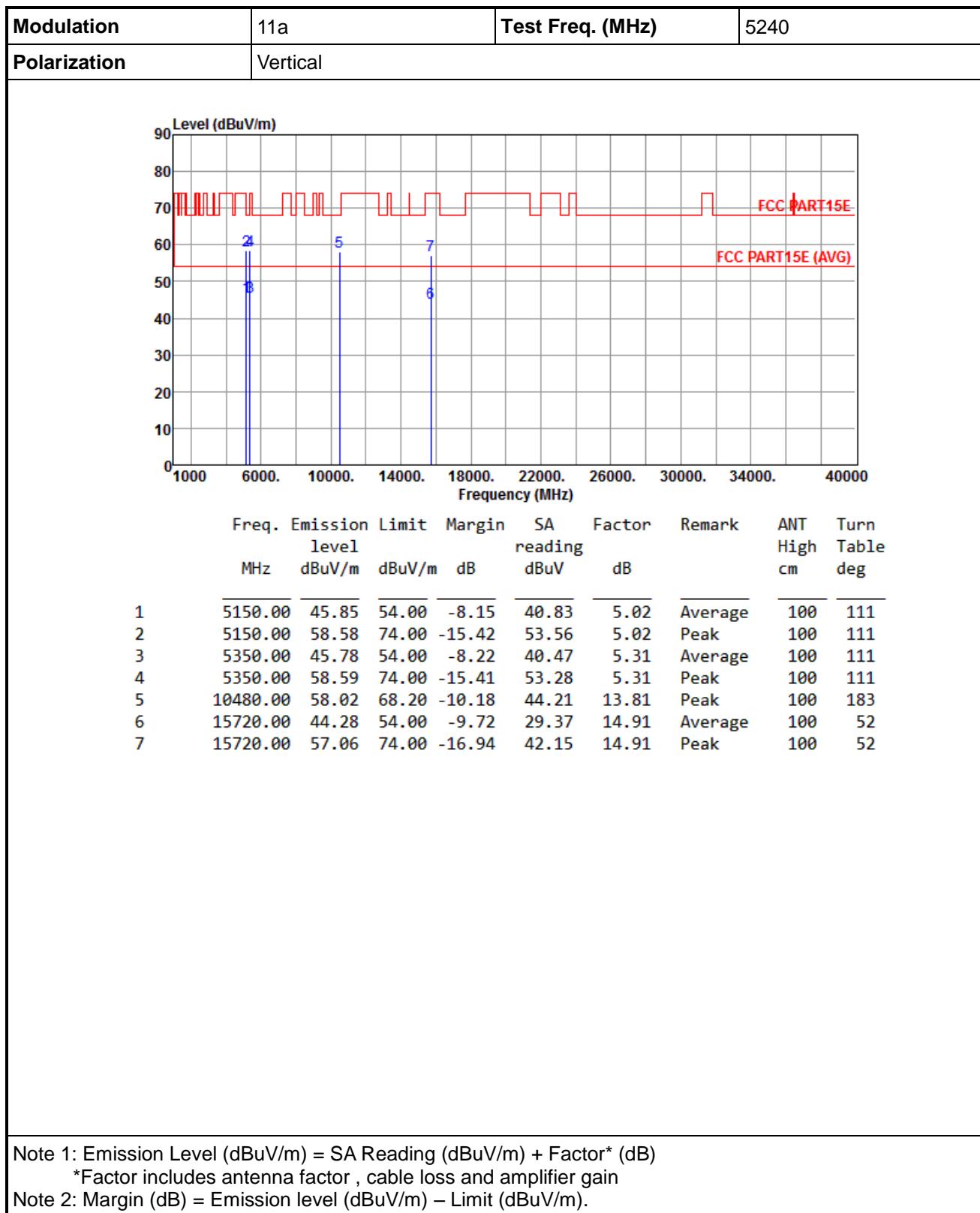




Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

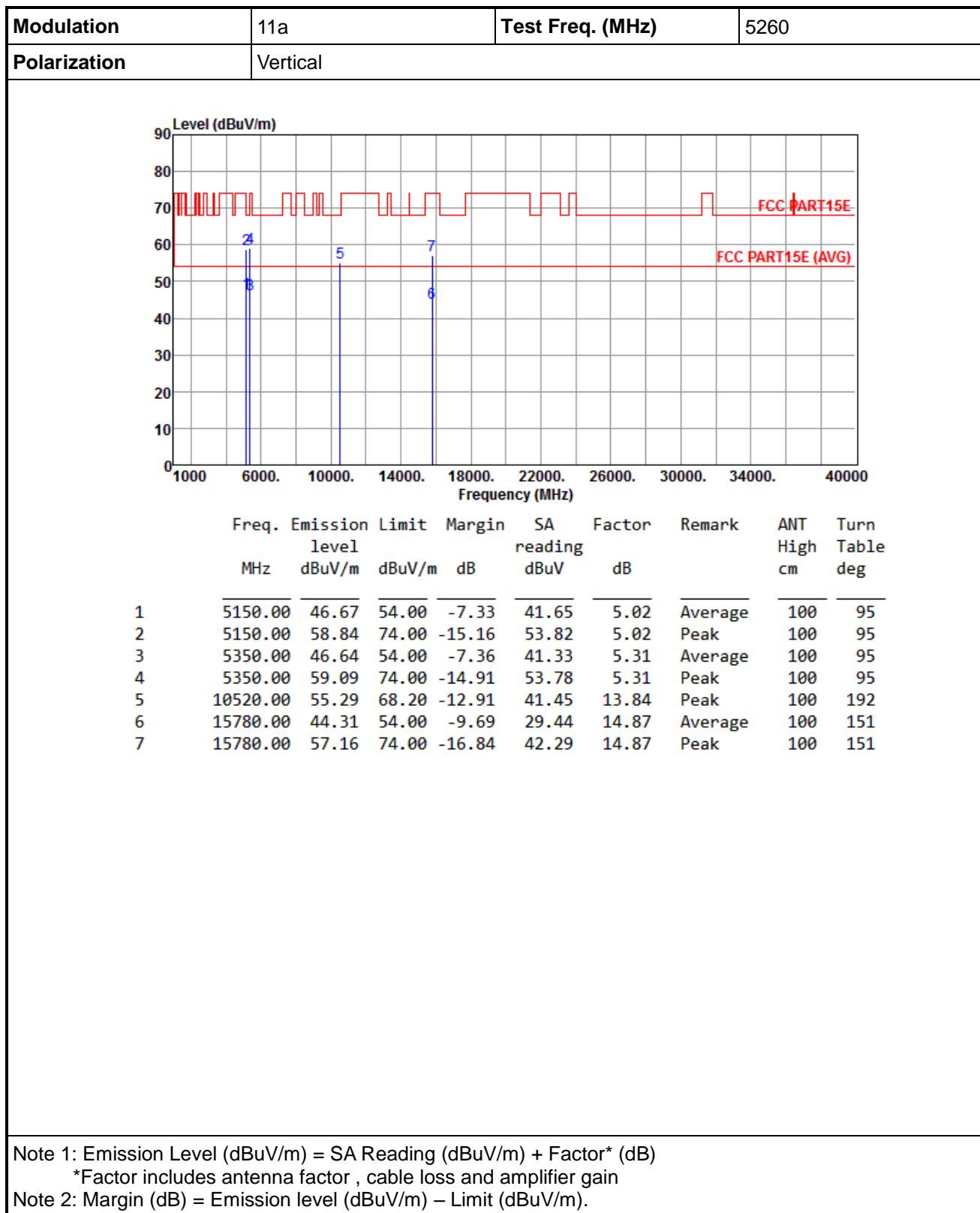


Modulation	11a	Test Freq. (MHz)	5260																																																																															
Polarization	Horizontal																																																																																	
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

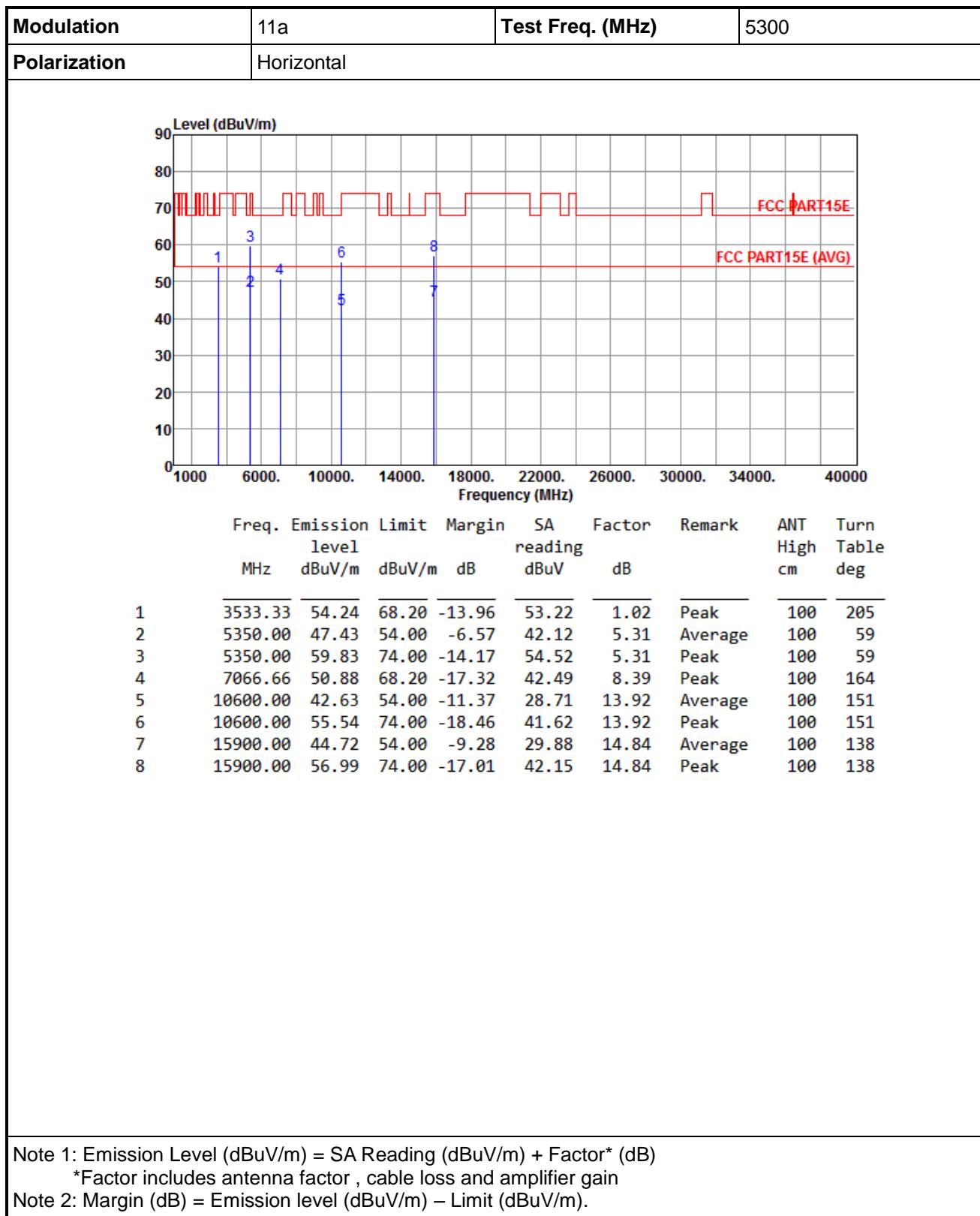
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

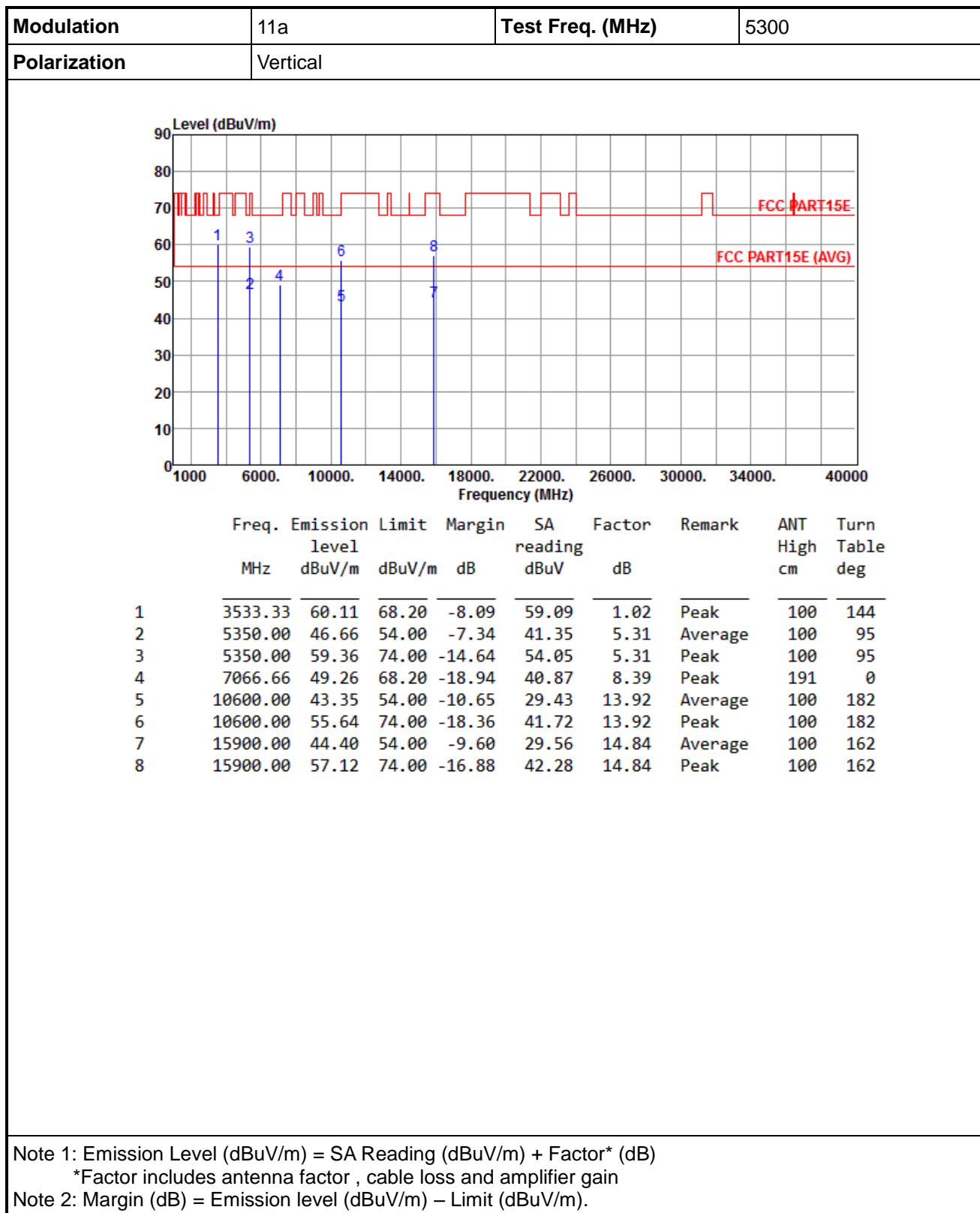


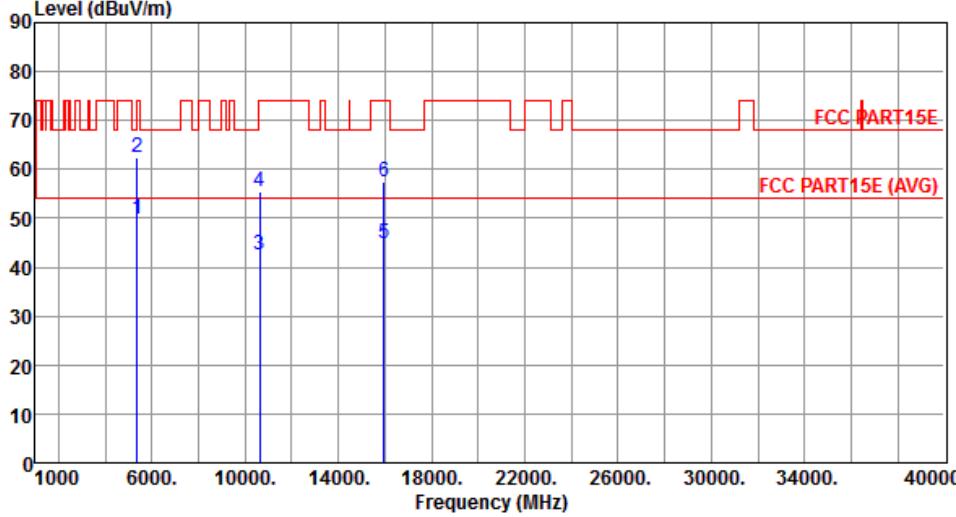
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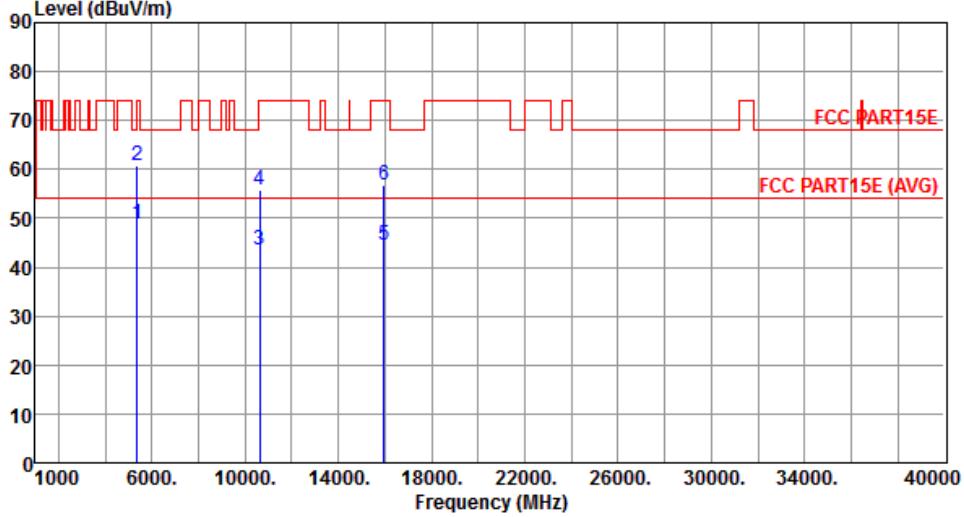


Modulation	11a	Test Freq. (MHz)	5320																																																																					
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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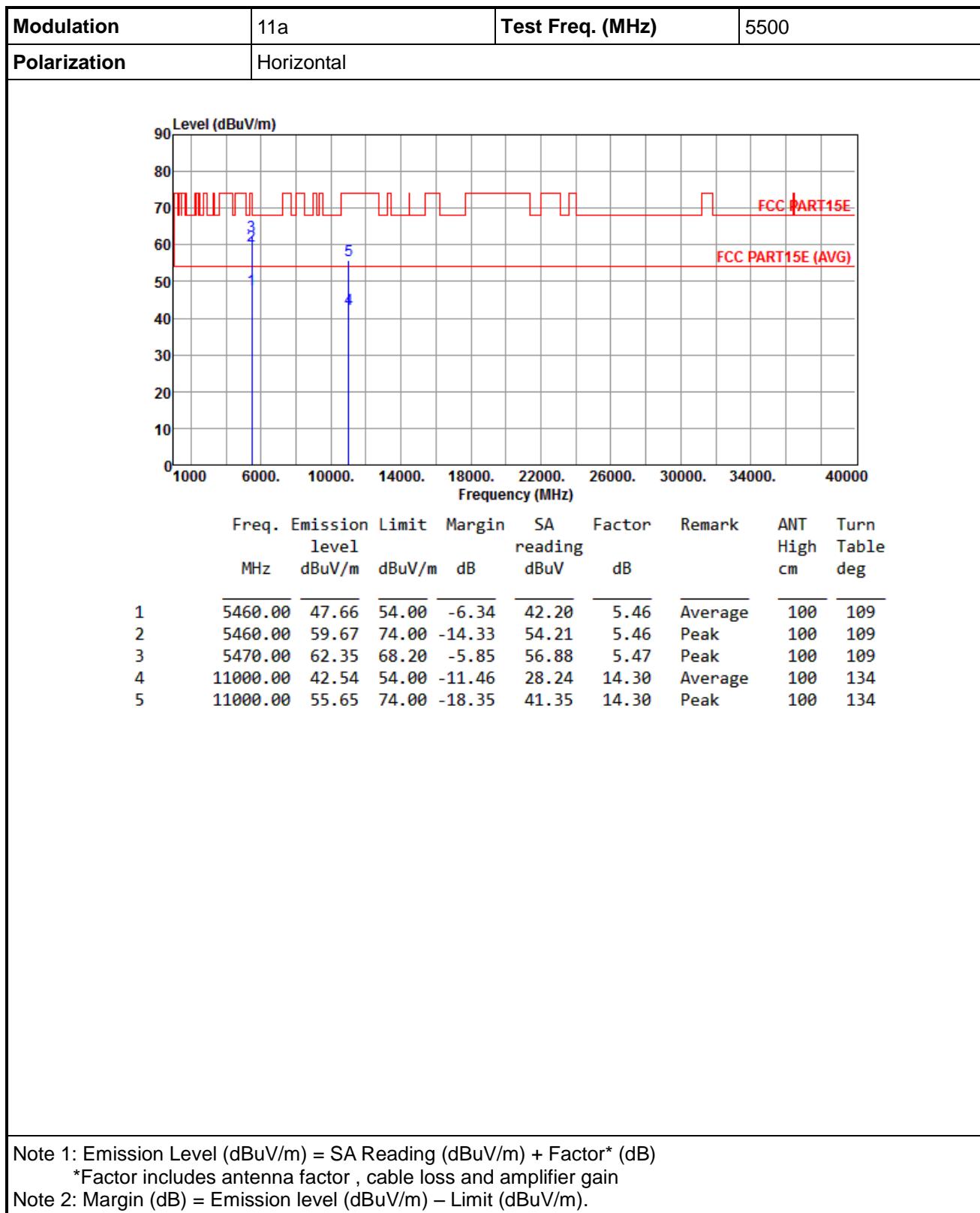
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

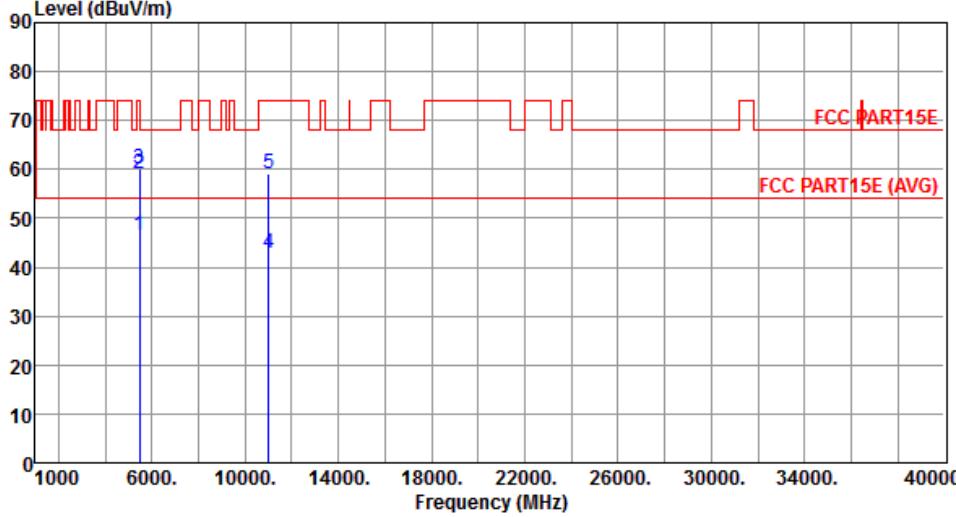
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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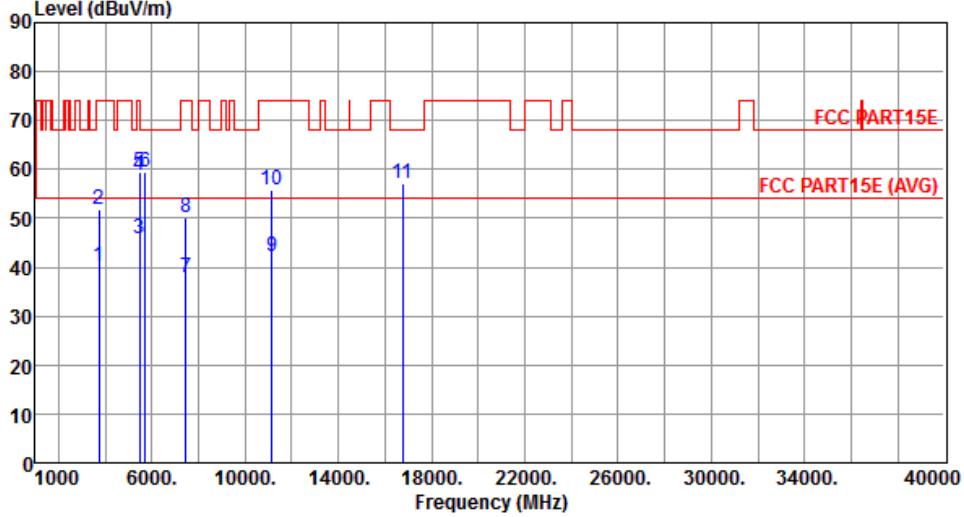


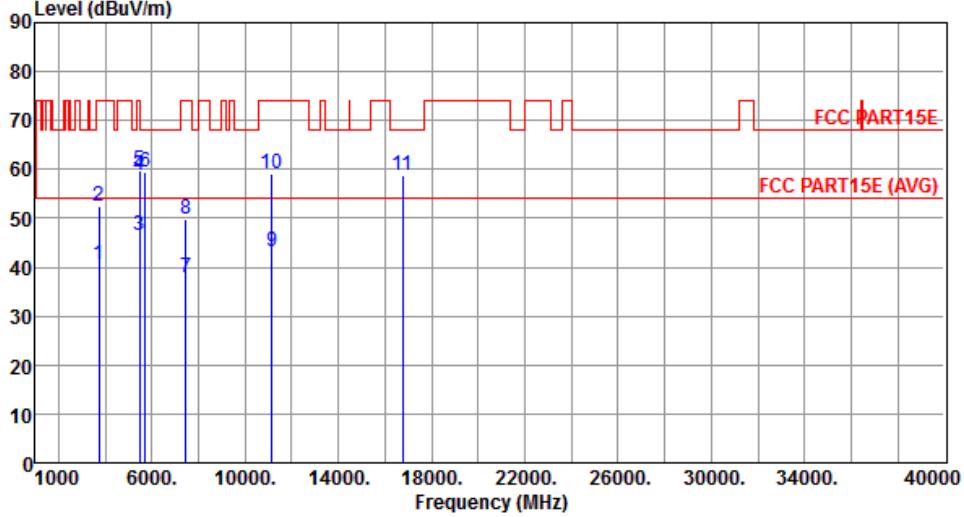
Modulation	11a	Test Freq. (MHz)	5500																																																											
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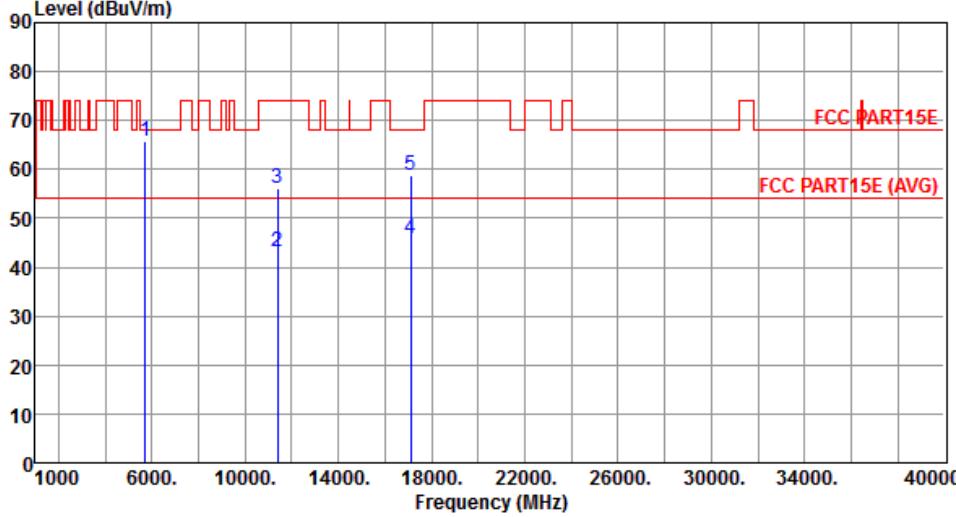
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5	5470.00	59.51	68.20	-8.69	54.04	5.47	Peak	100	93																																																																																																																	
6	5725.00	59.28	68.20	-8.92	53.47	5.81	Peak	100	93																																																																																																																	
7	7440.00	38.02	54.00	-15.98	28.52	9.50	Average	100	50																																																																																																																	
8	7440.00	50.21	74.00	-23.79	40.71	9.50	Peak	100	50																																																																																																																	
9	11160.00	42.19	54.00	-11.81	27.75	14.44	Average	100	156																																																																																																																	
10	11160.00	55.73	74.00	-18.27	41.29	14.44	Peak	100	156																																																																																																																	
11	16740.00	57.22	68.20	-10.98	41.25	15.97	Peak	100	156																																																																																																																	
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Modulation	11a	Test Freq. (MHz)	5580																																																																																																																							
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

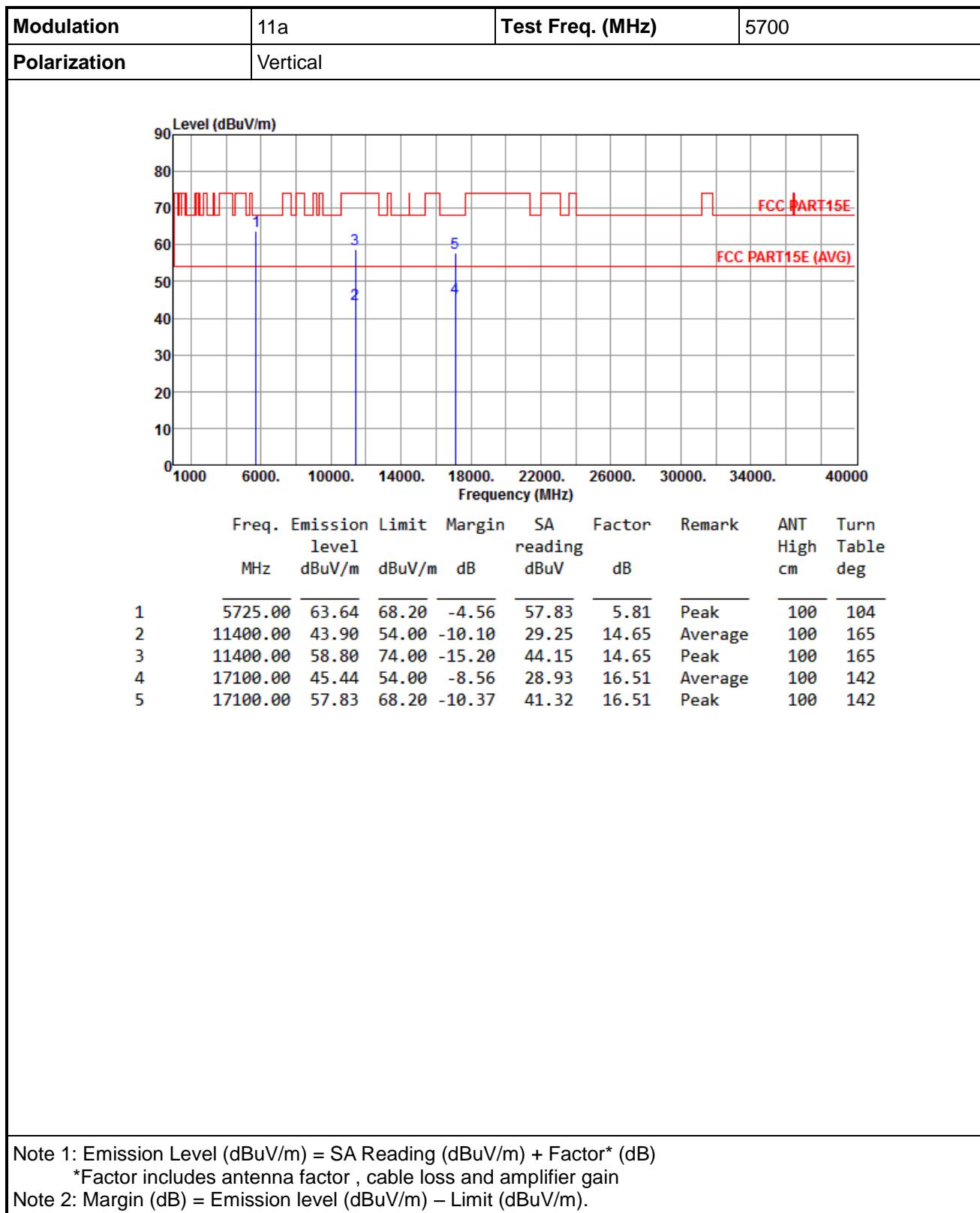
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

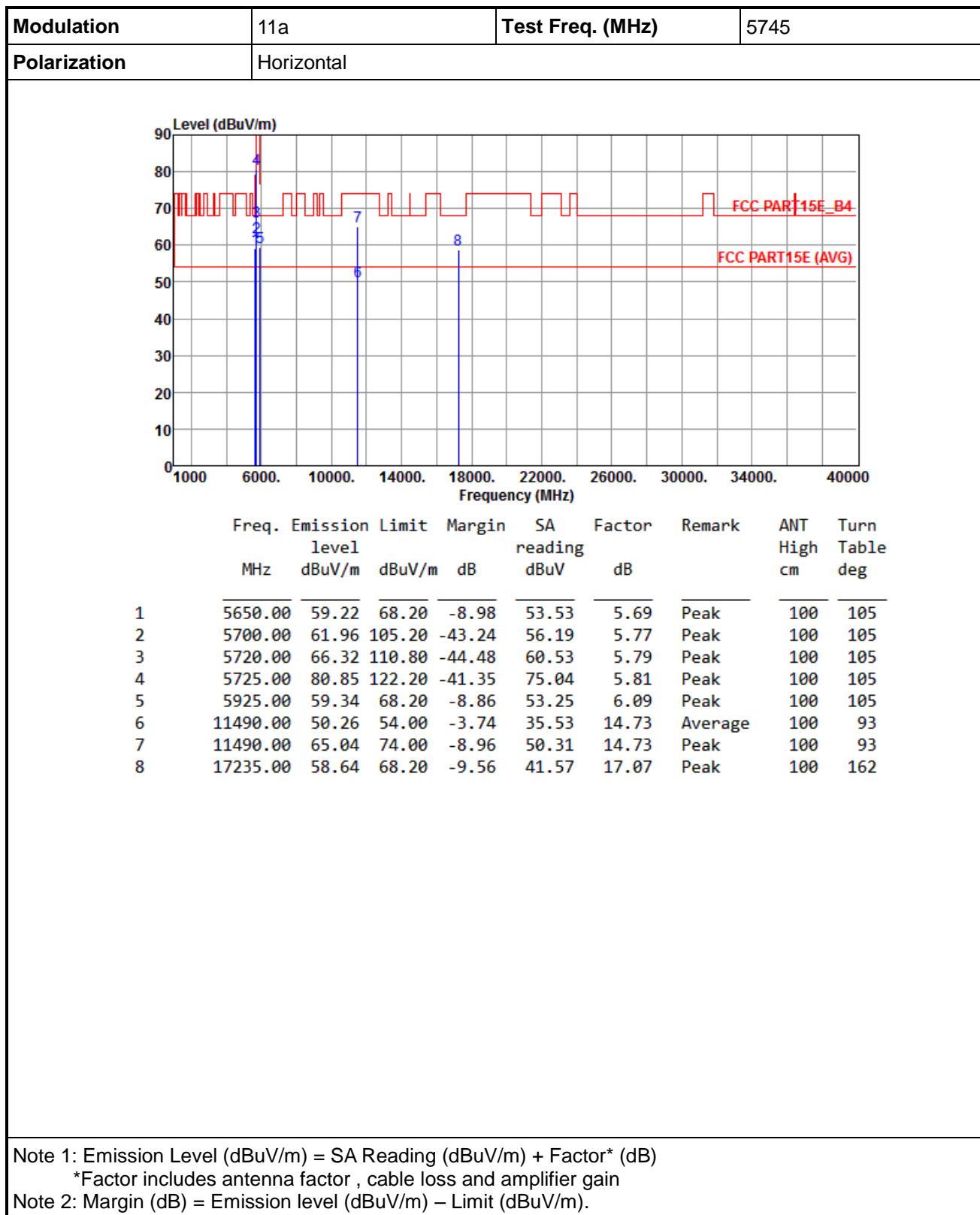
Modulation	11a	Test Freq. (MHz)	5700																																																											
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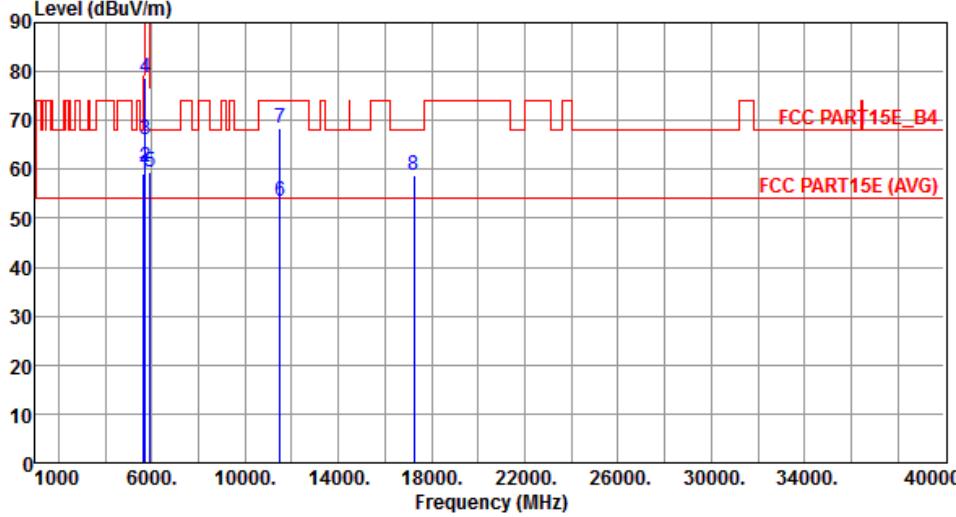
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



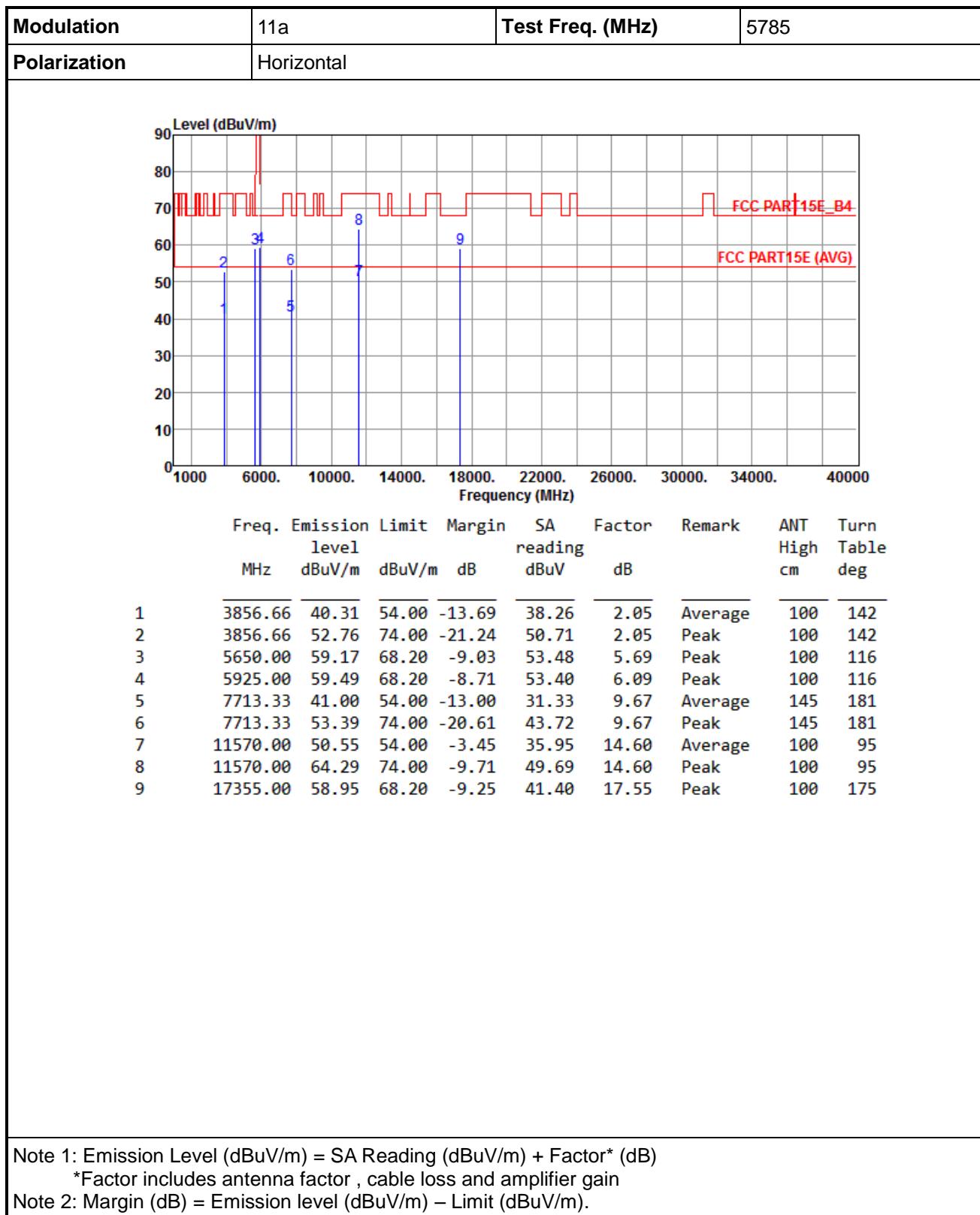


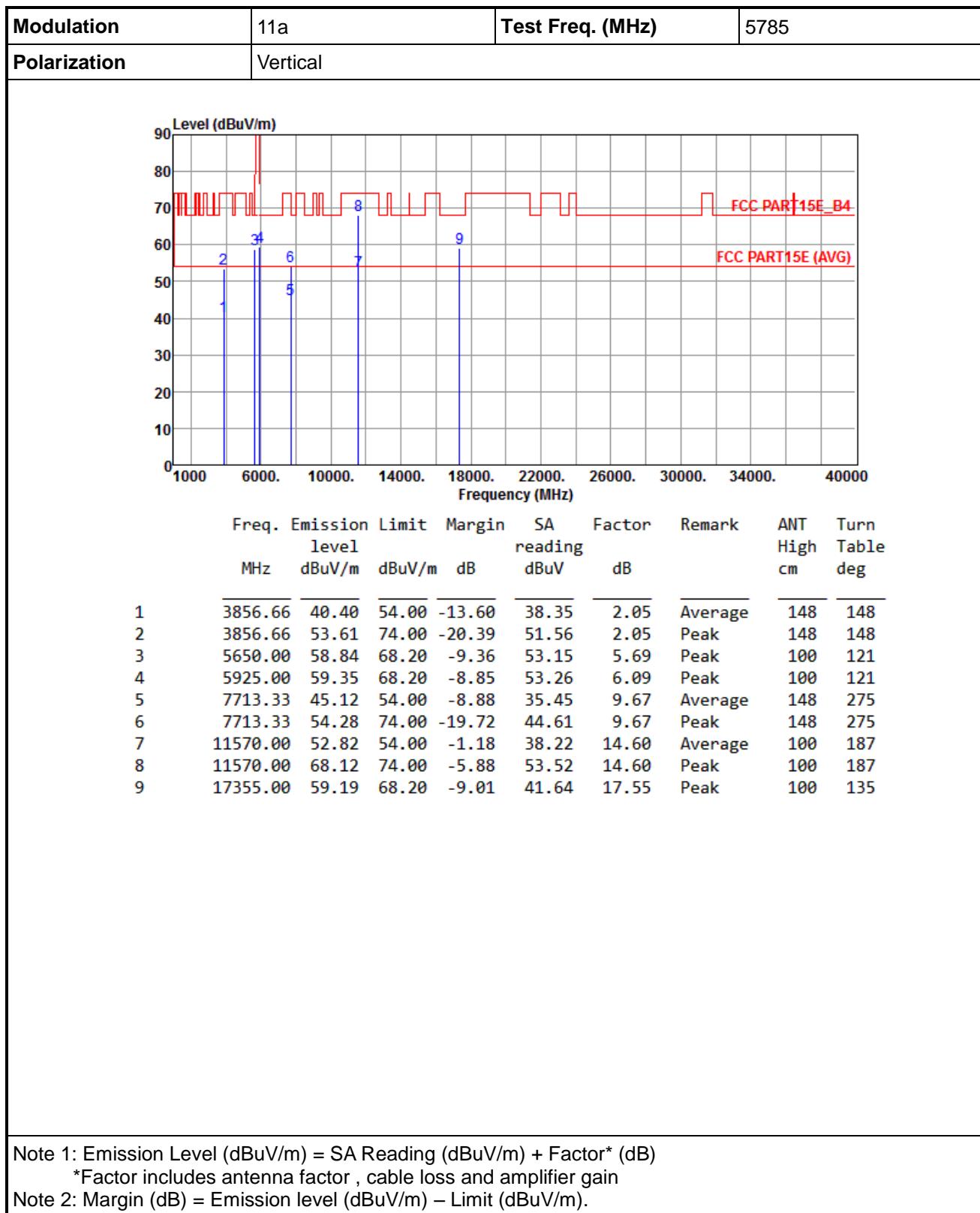
Modulation	11a	Test Freq. (MHz)	5745																																																																																									
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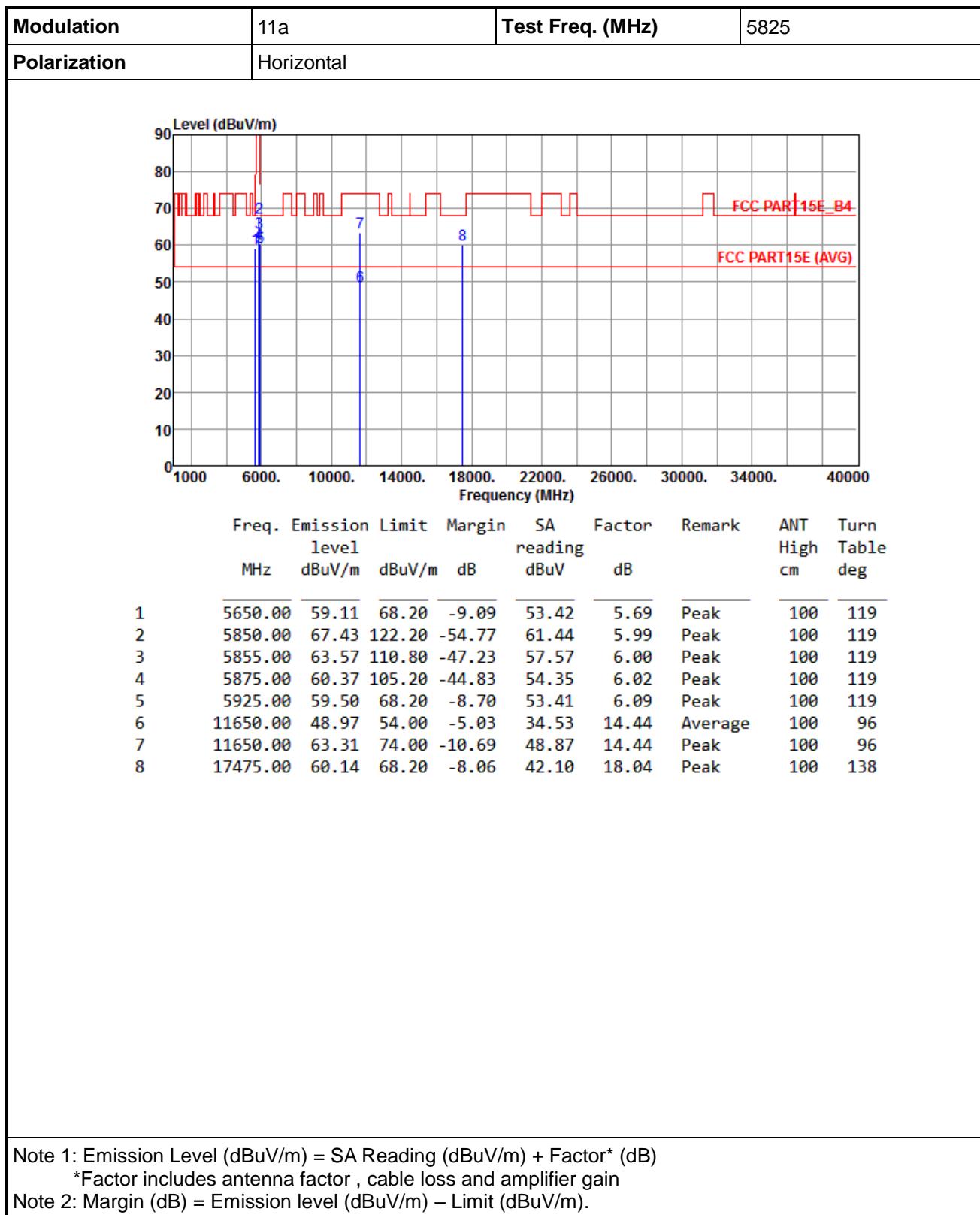
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

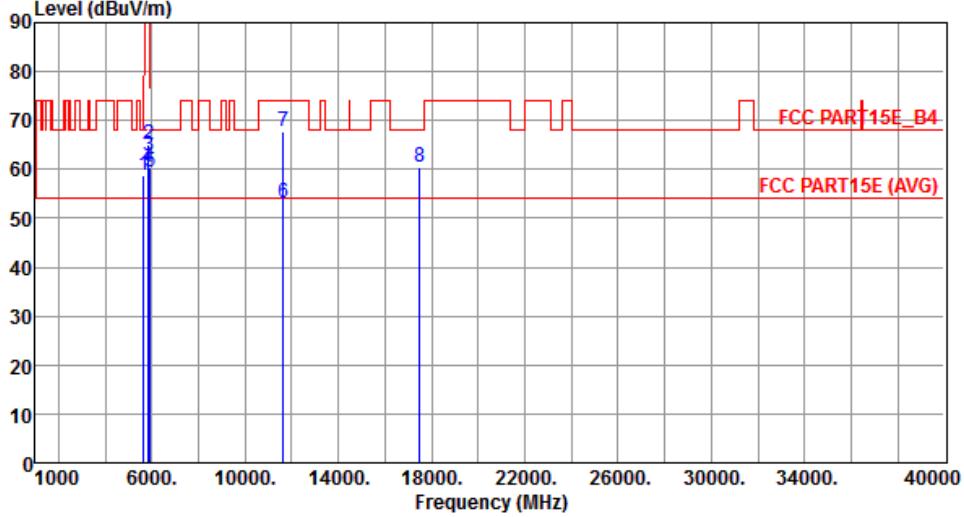
*Factor includes antenna factor , cable loss and amplifier gain

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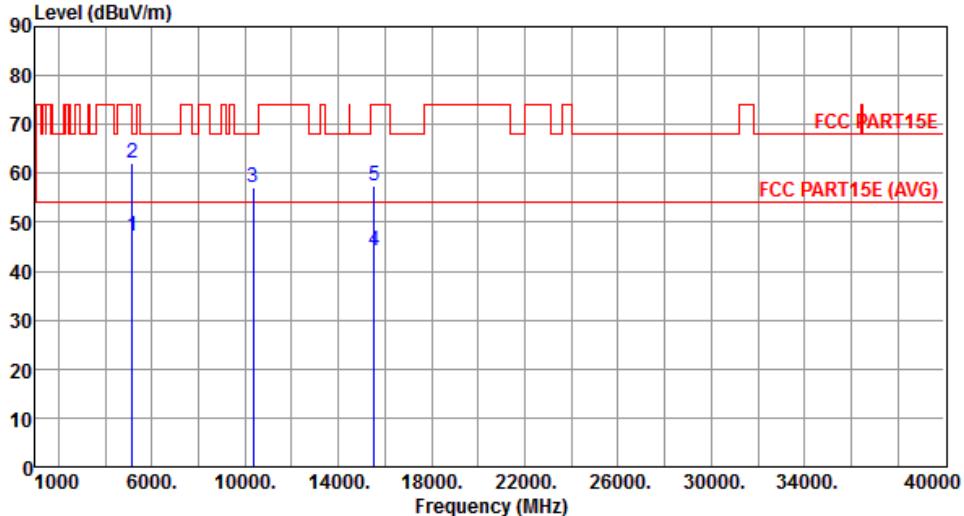
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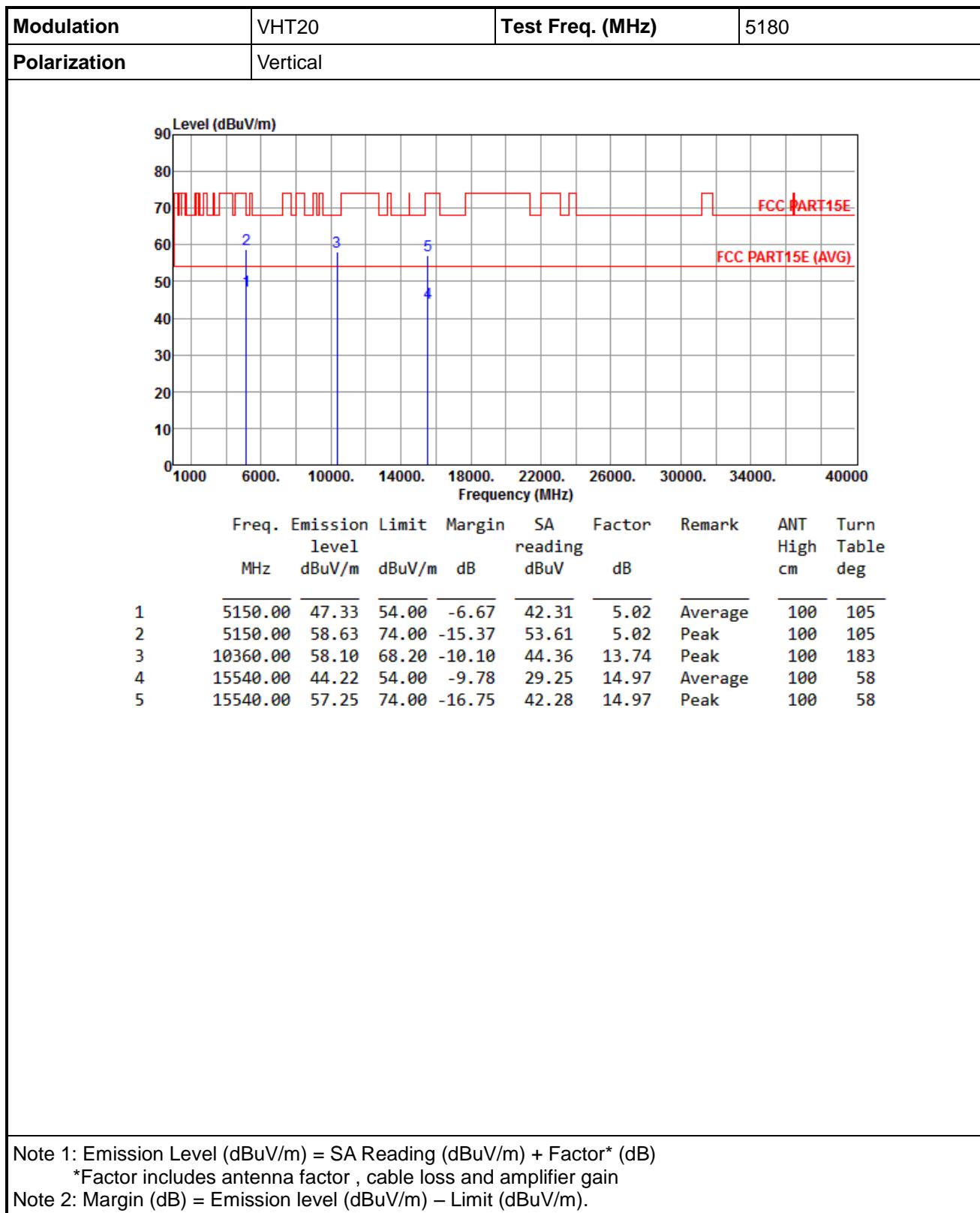
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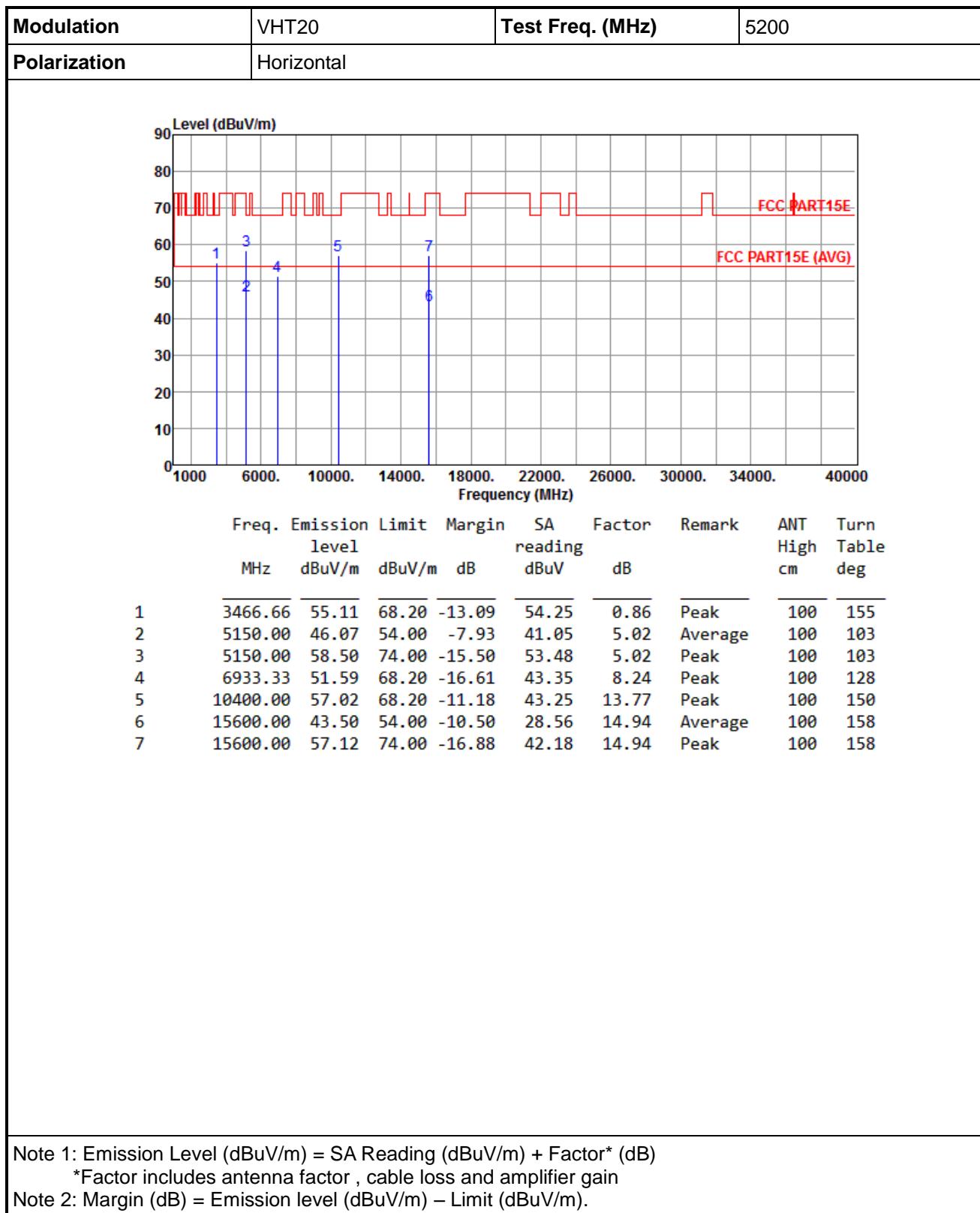
*Factor includes antenna factor , cable loss and amplifier gain

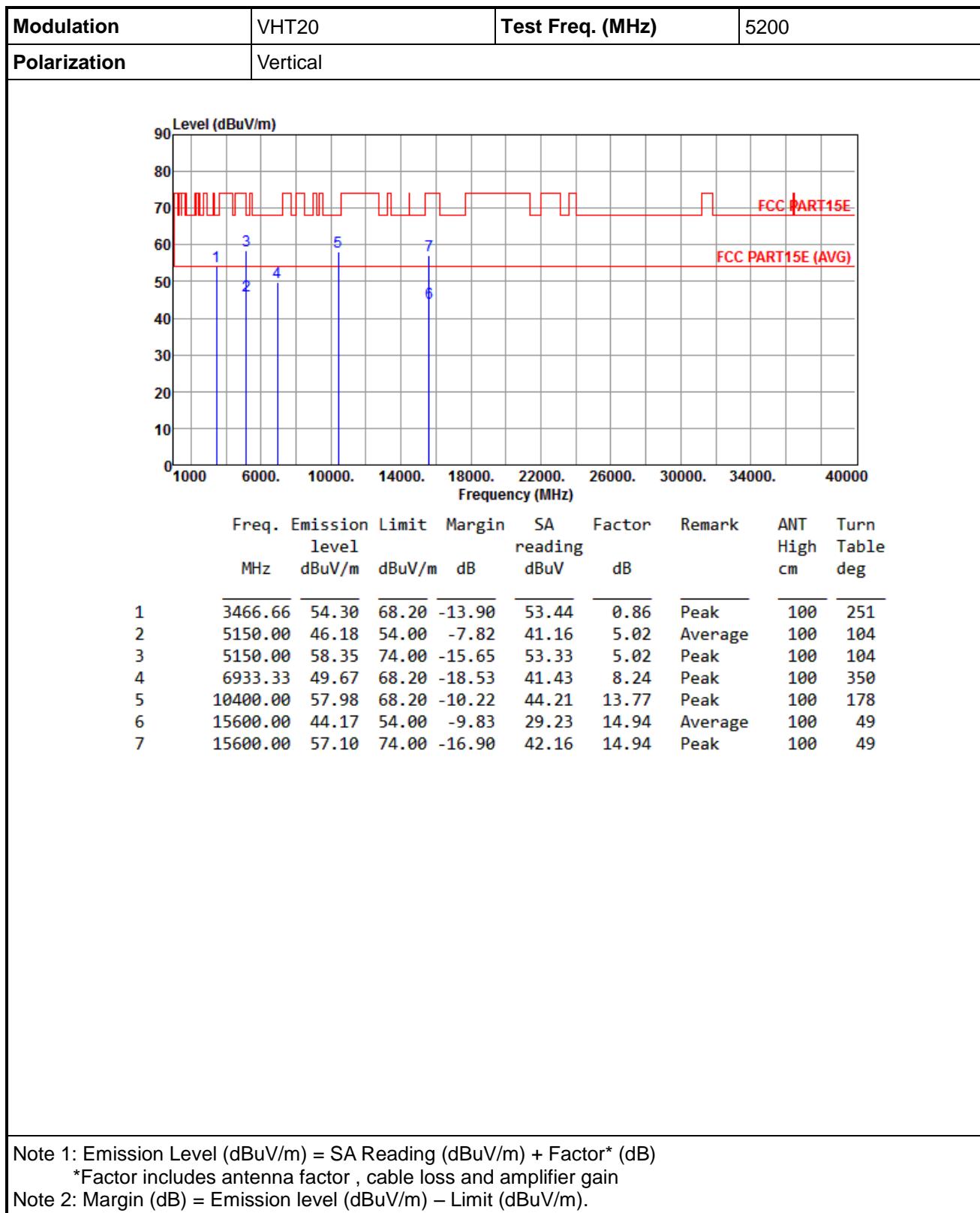
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

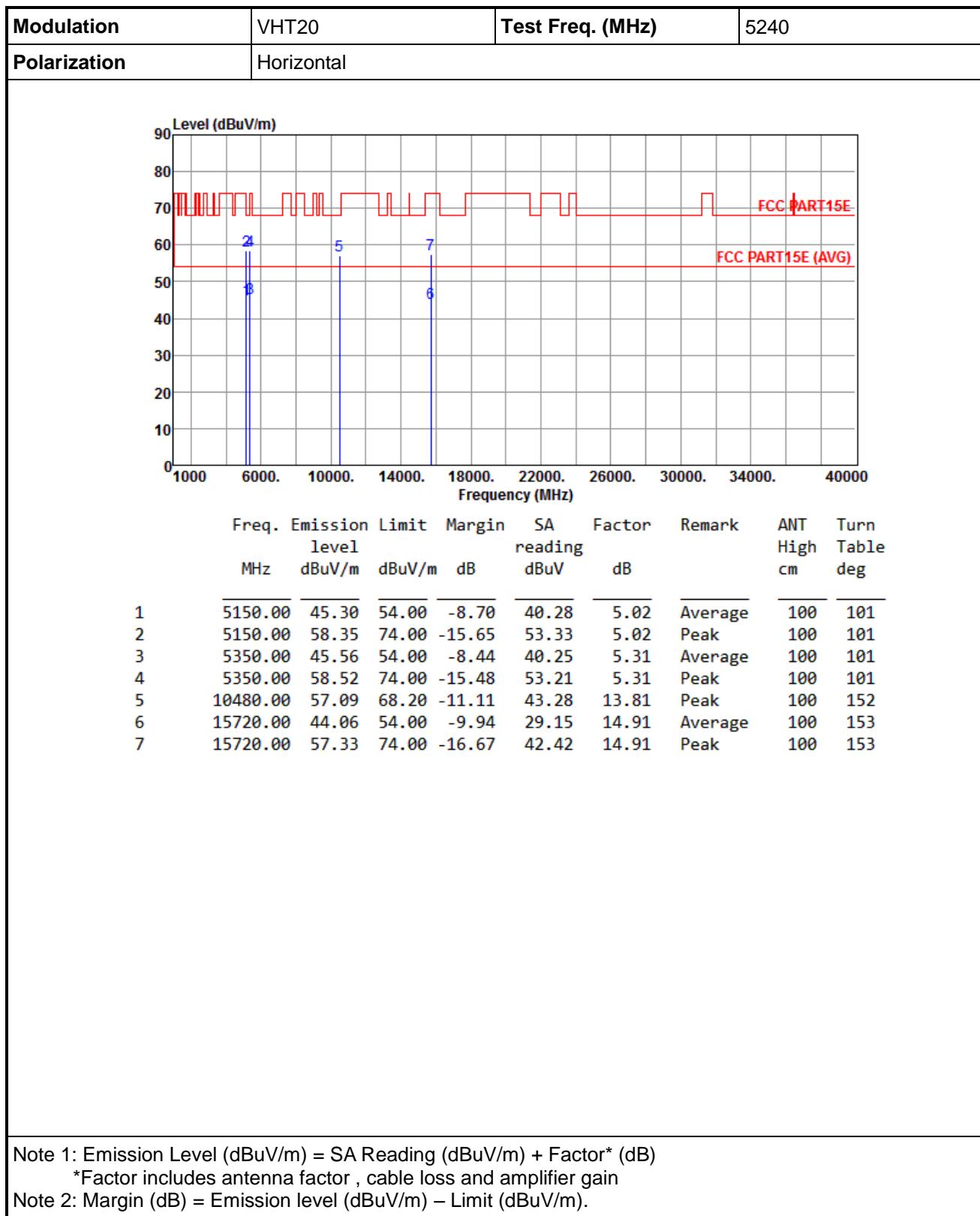
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

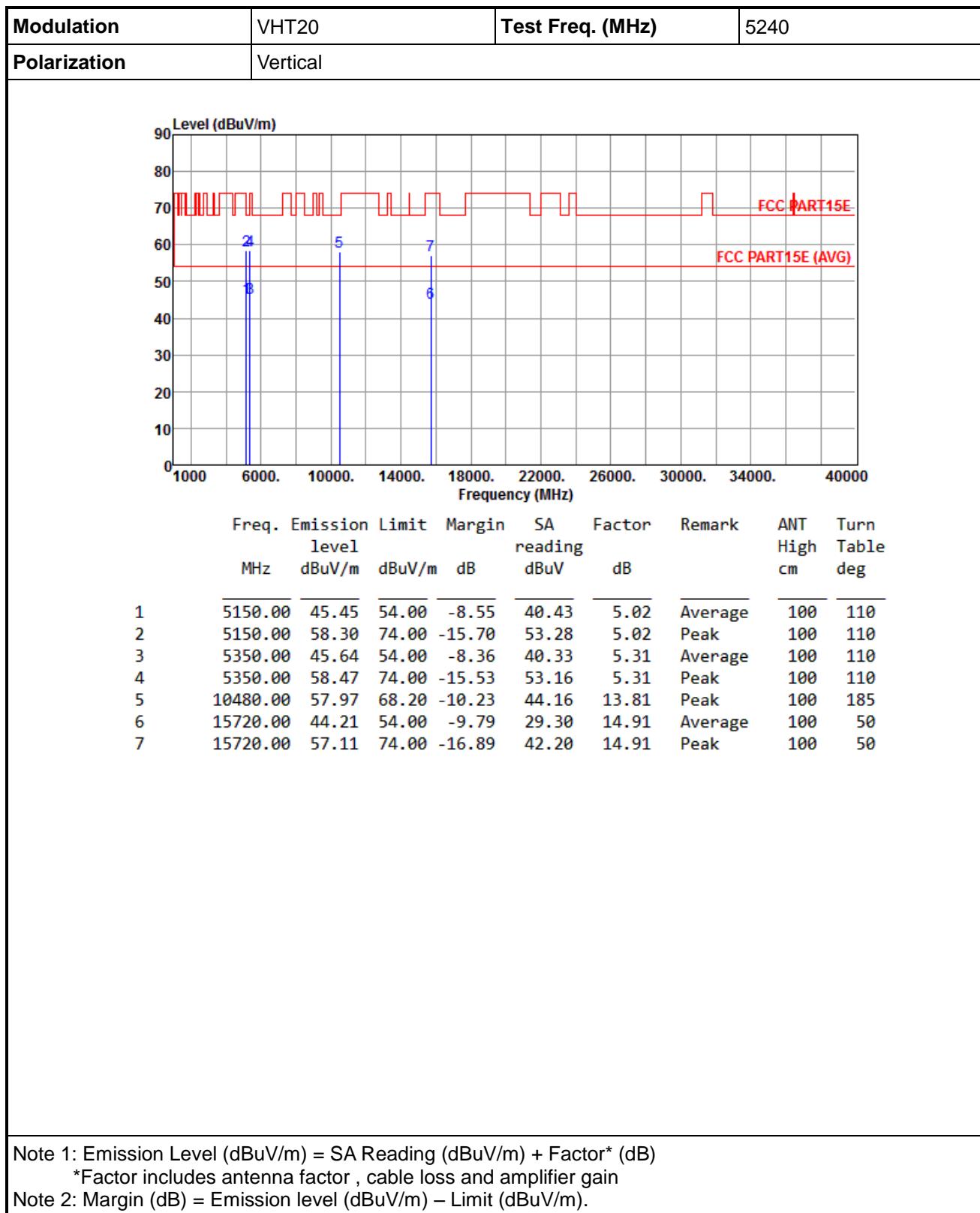
Modulation	VHT20	Test Freq. (MHz)	5180																																																						
Polarization	Horizontal																																																								
																																																									
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>47.07</td> <td>54.00</td> <td>-6.93</td> <td>42.05</td> <td>Average</td> <td>100</td> <td>102</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>61.96</td> <td>74.00</td> <td>-12.04</td> <td>56.94</td> <td>Peak</td> <td>100</td> <td>102</td> </tr> <tr> <td>3</td> <td>10360.00</td> <td>57.16</td> <td>68.20</td> <td>-11.04</td> <td>43.42</td> <td>Peak</td> <td>100</td> <td>148</td> </tr> <tr> <td>4</td> <td>15540.00</td> <td>44.22</td> <td>54.00</td> <td>-9.78</td> <td>29.25</td> <td>Average</td> <td>100</td> <td>161</td> </tr> <tr> <td>5</td> <td>15540.00</td> <td>57.33</td> <td>74.00</td> <td>-16.67</td> <td>42.36</td> <td>Peak</td> <td>100</td> <td>161</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	47.07	54.00	-6.93	42.05	Average	100	102	2	5150.00	61.96	74.00	-12.04	56.94	Peak	100	102	3	10360.00	57.16	68.20	-11.04	43.42	Peak	100	148	4	15540.00	44.22	54.00	-9.78	29.25	Average	100	161	5	15540.00	57.33	74.00	-16.67	42.36	Peak	100	161
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																	
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<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																									

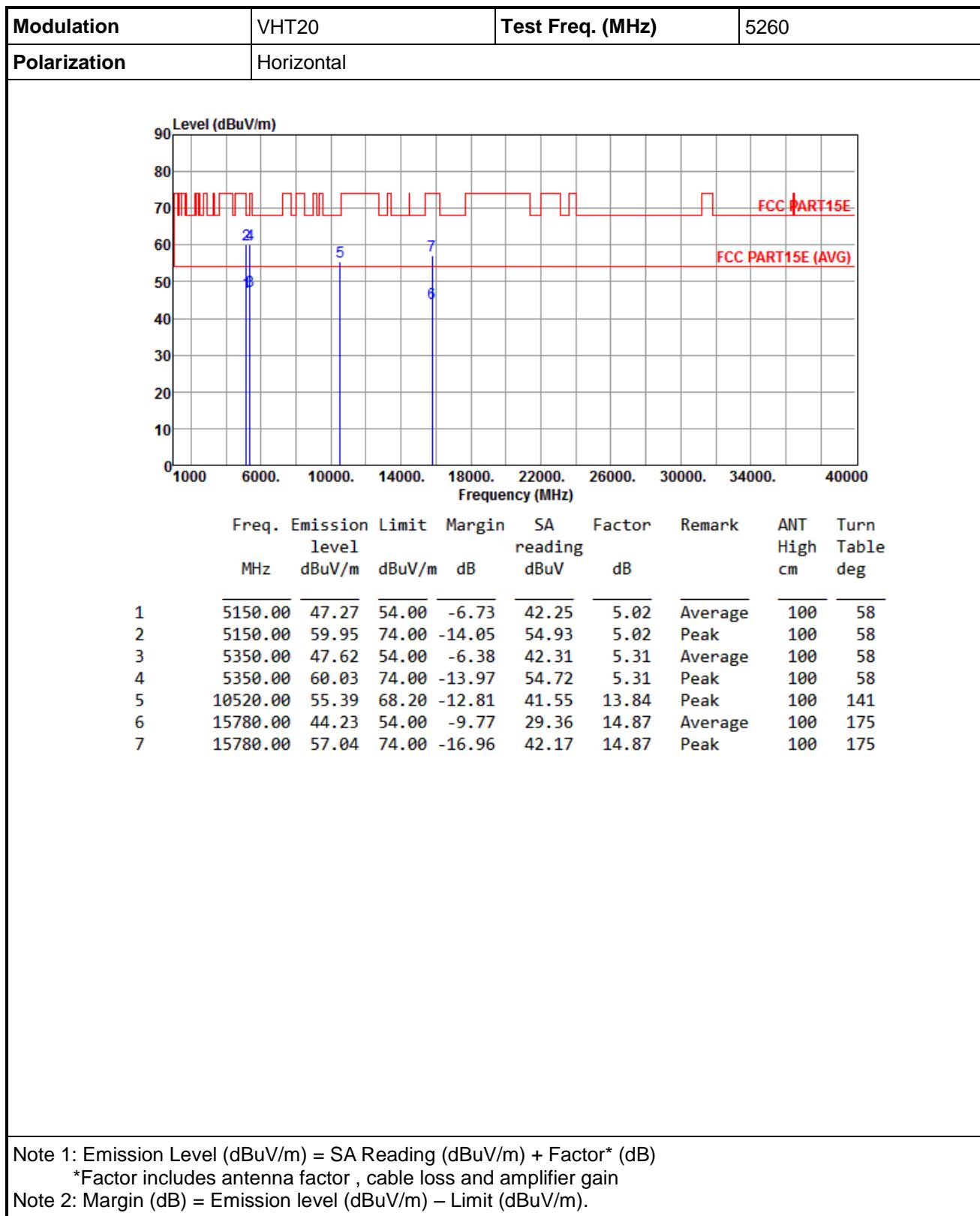


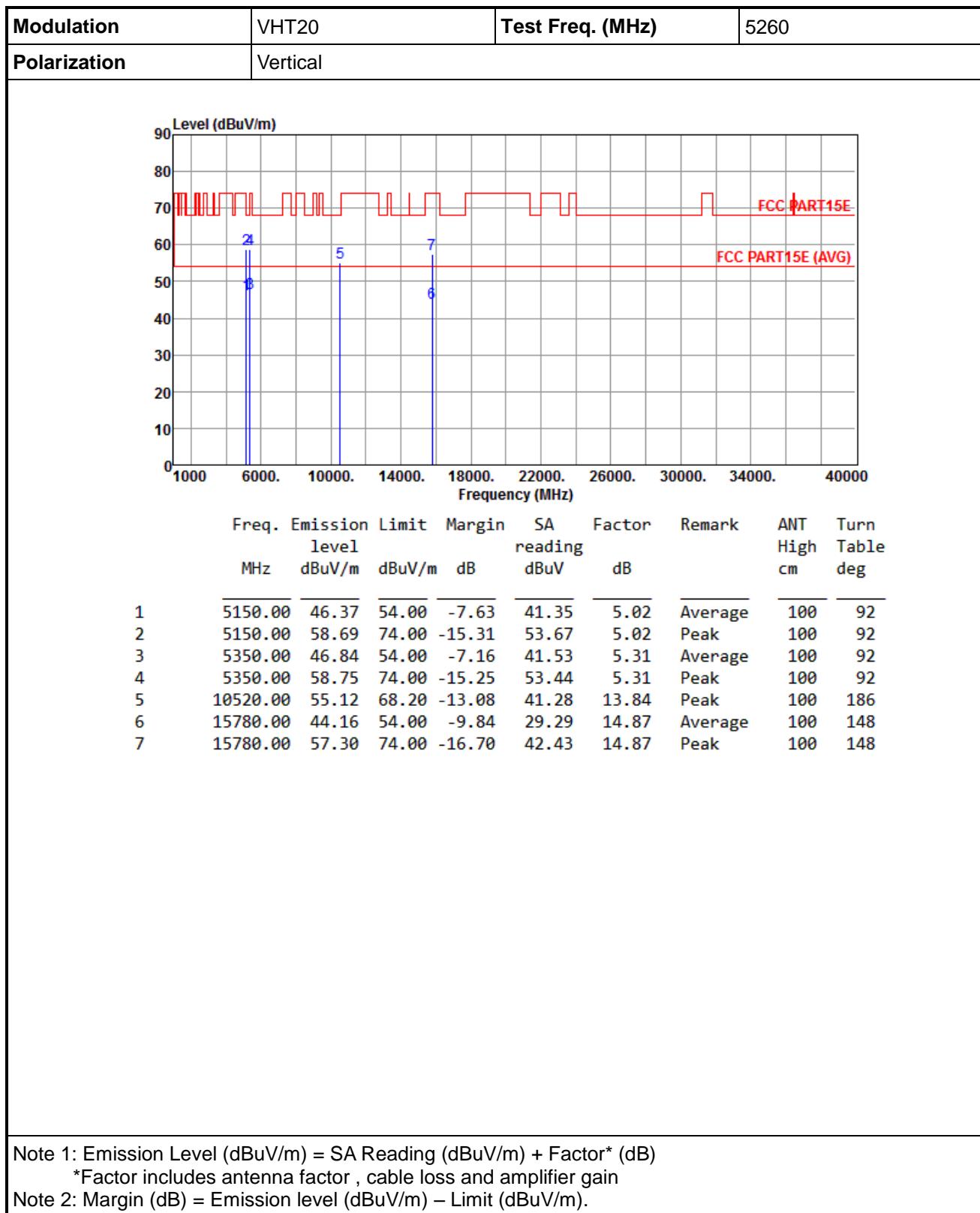


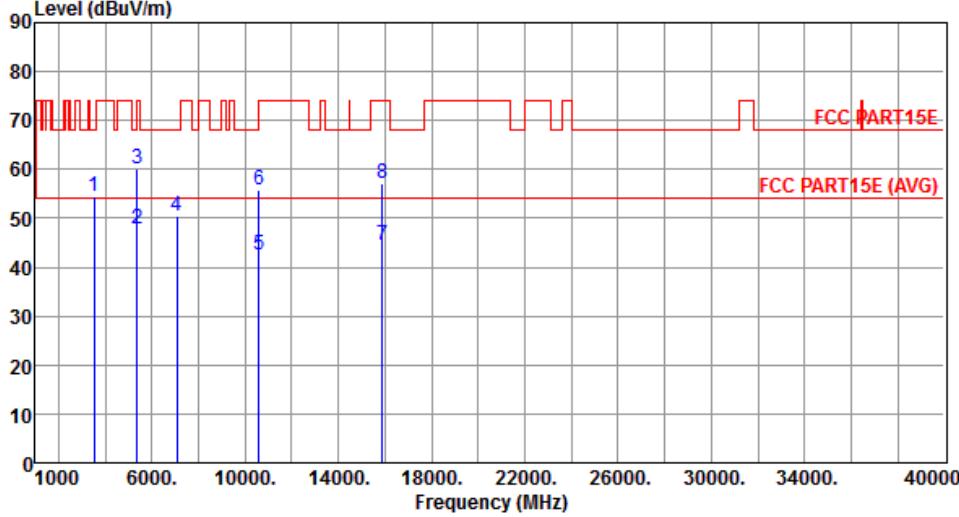








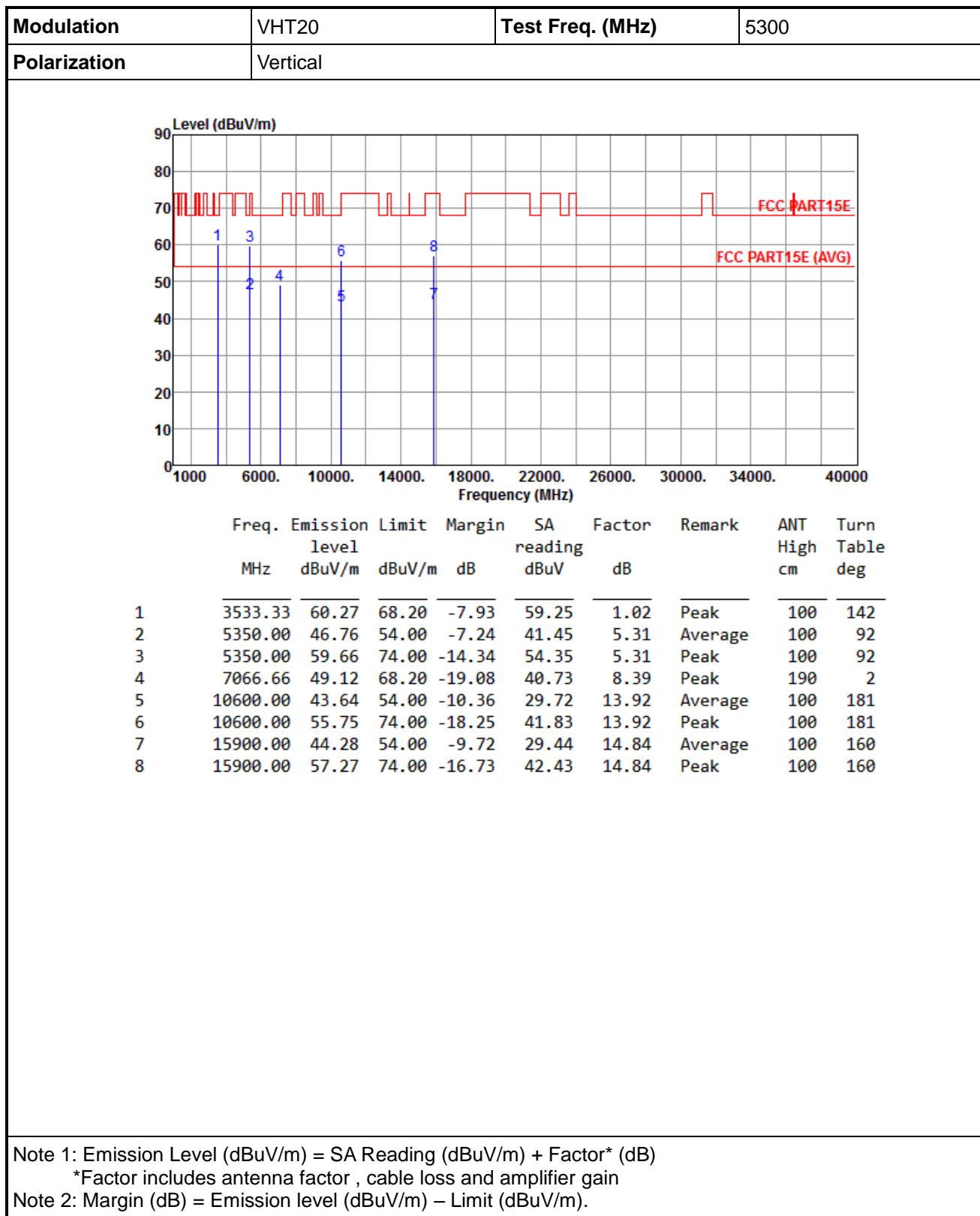


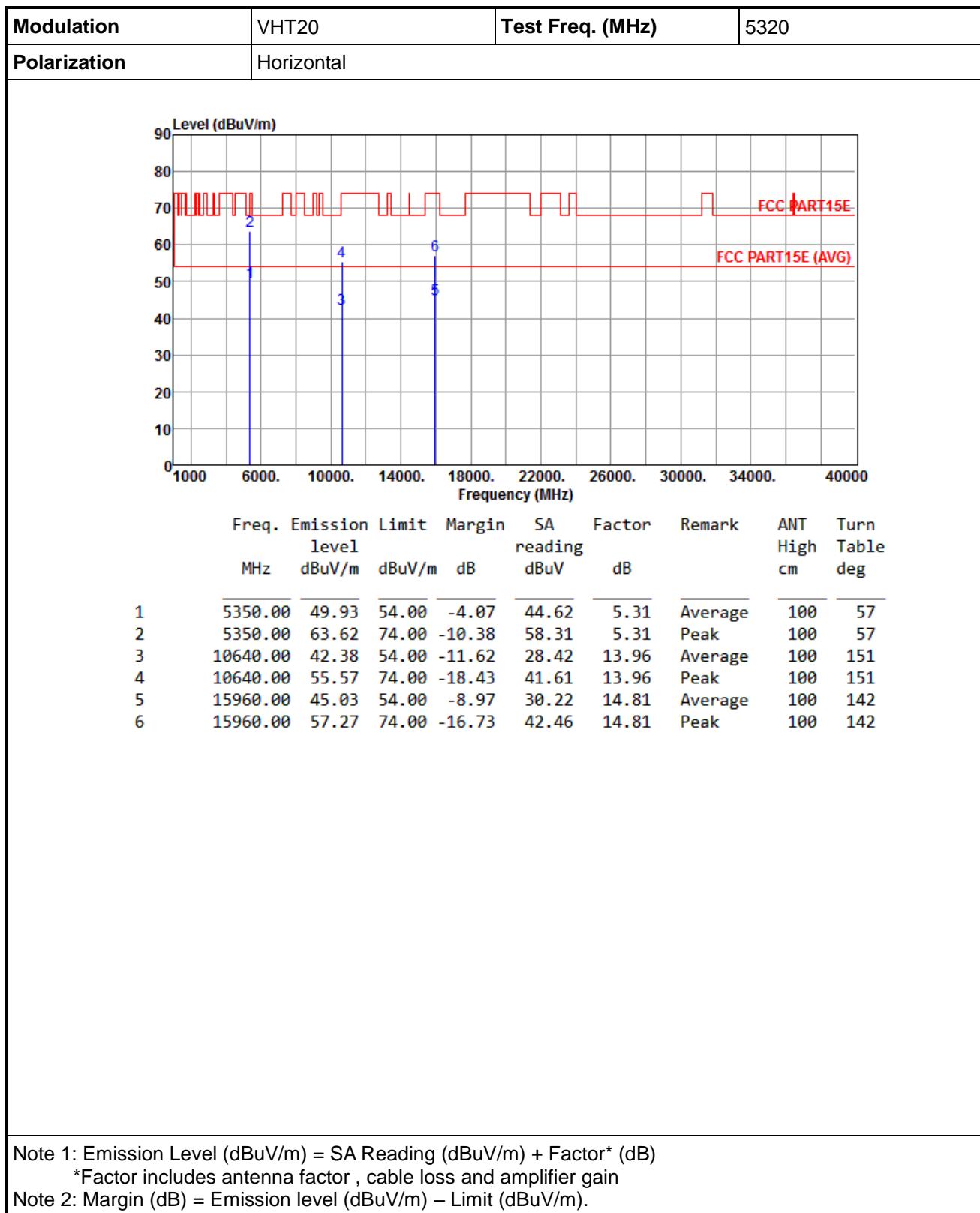
Modulation	VHT20	Test Freq. (MHz)	5300																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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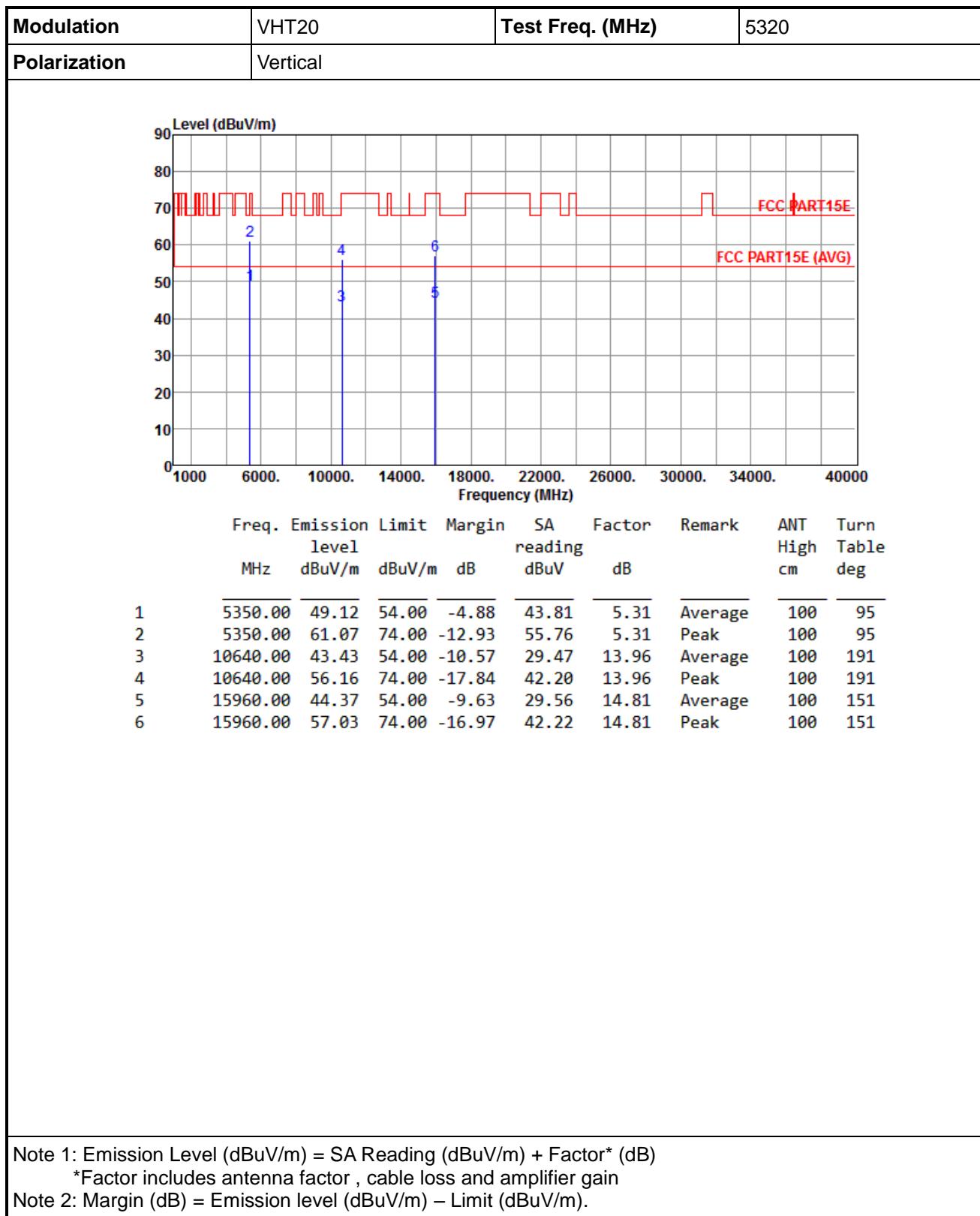
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



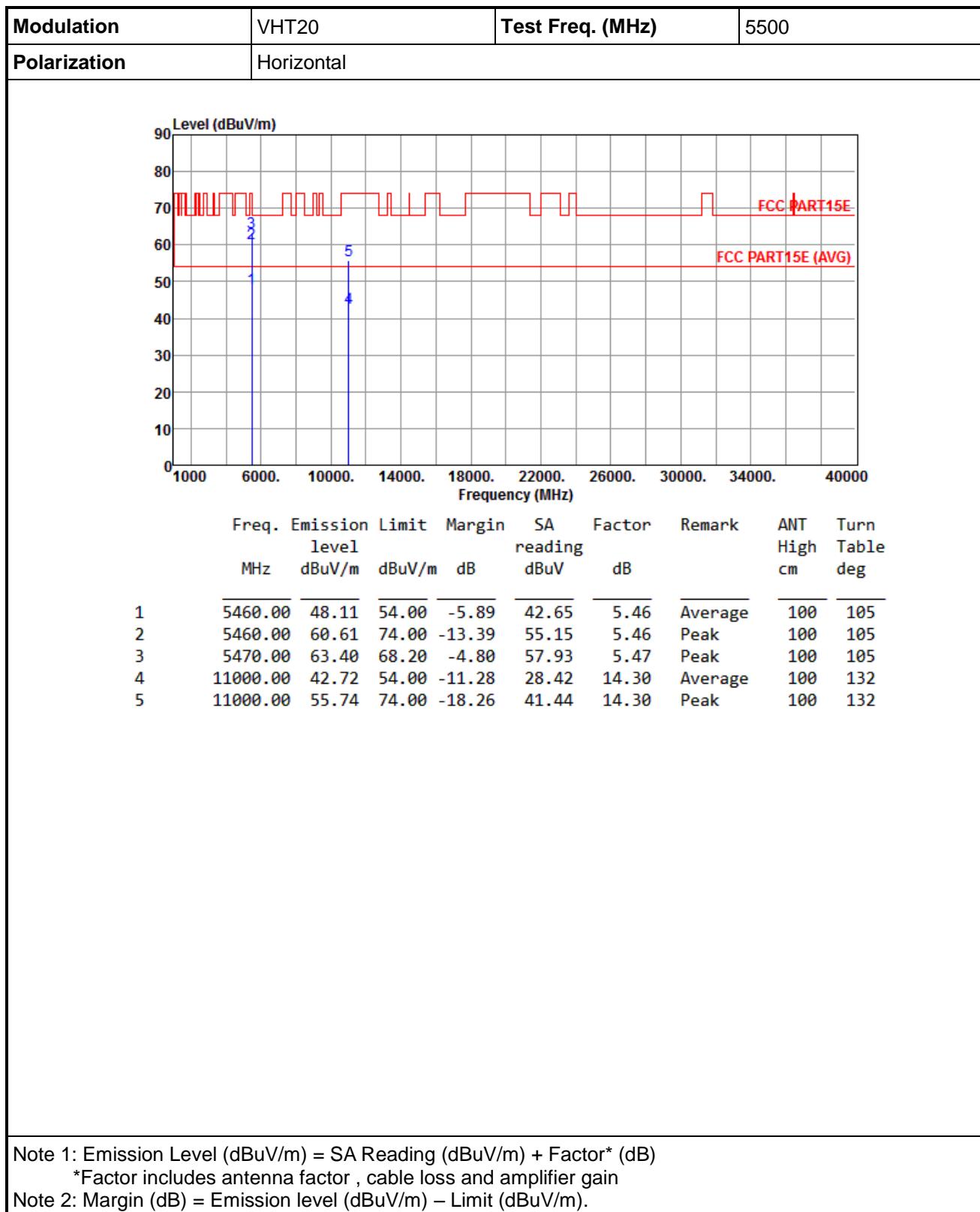


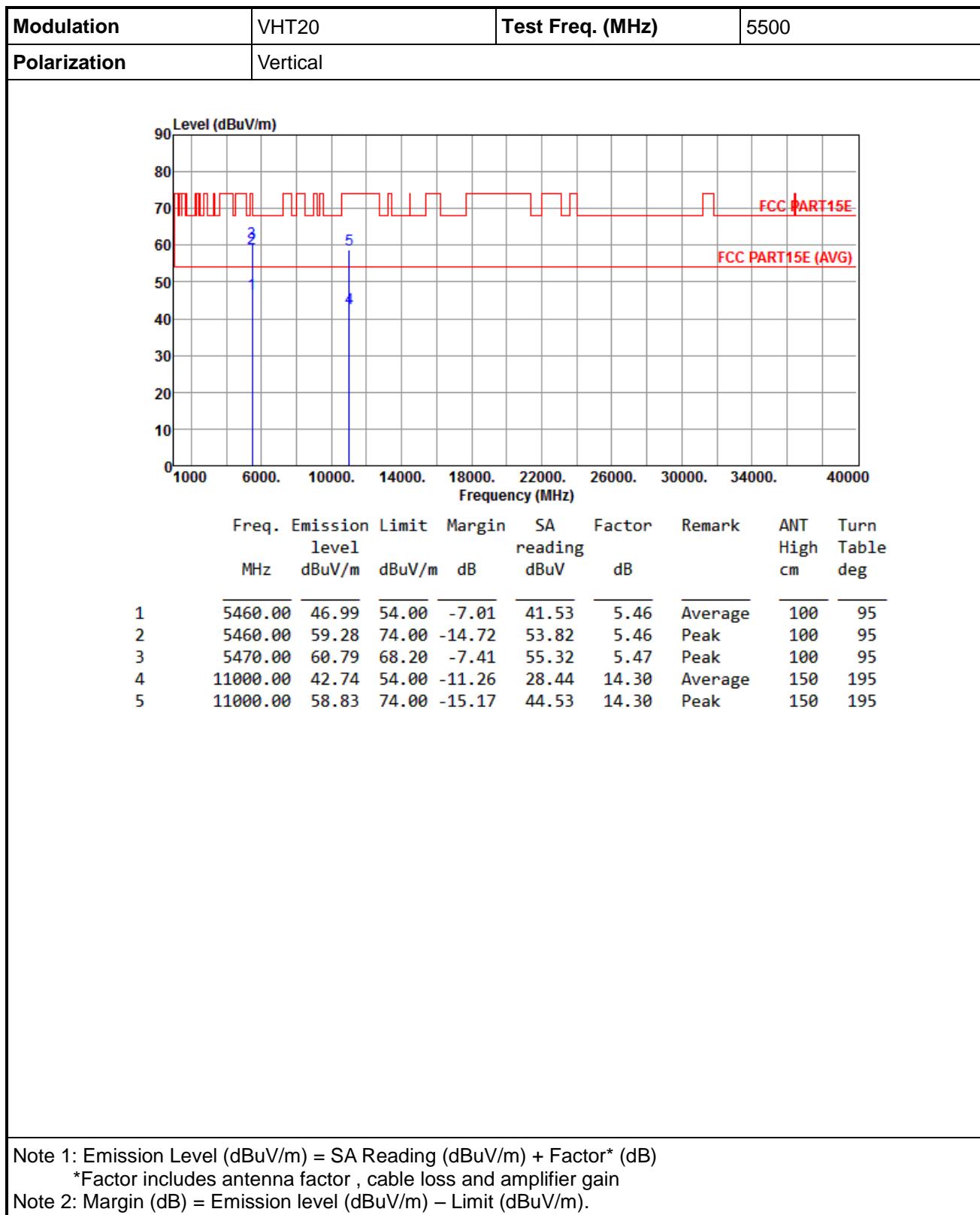


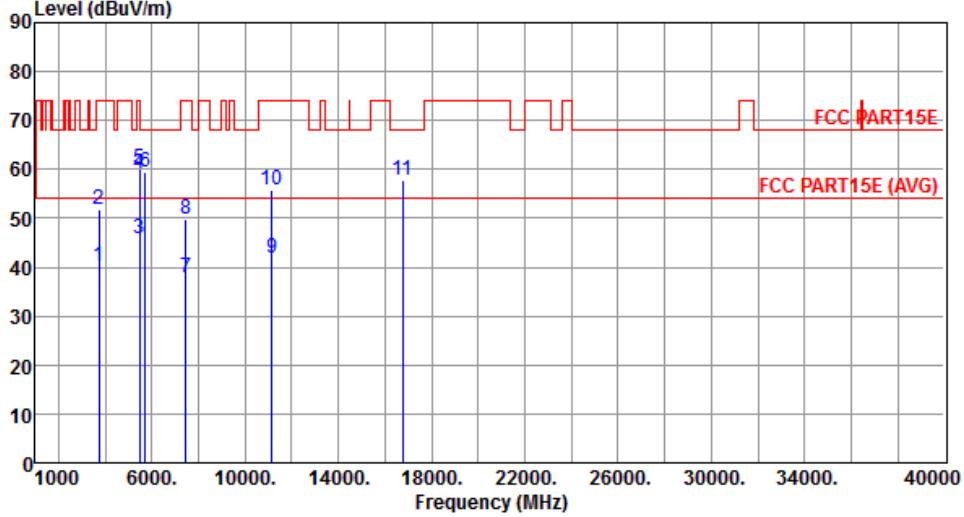
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

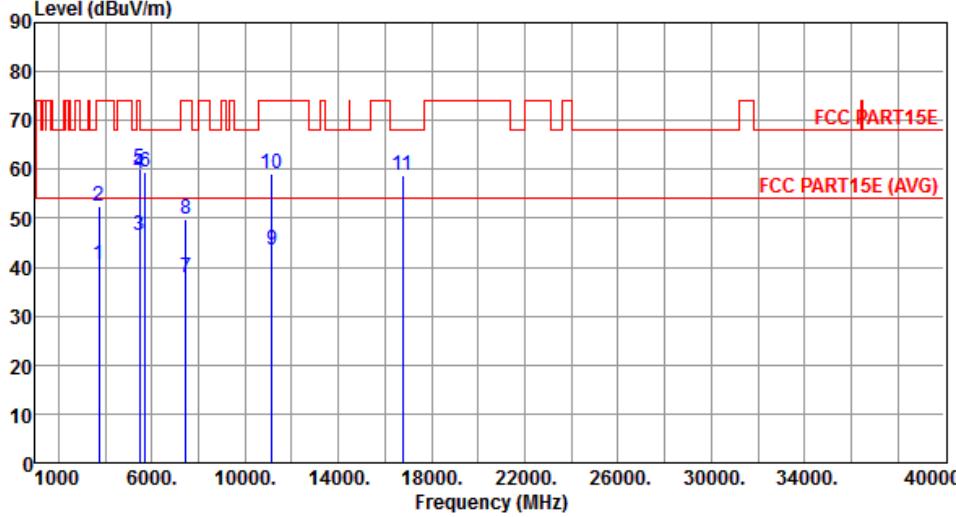
*Factor includes antenna factor , cable loss and amplifier gain

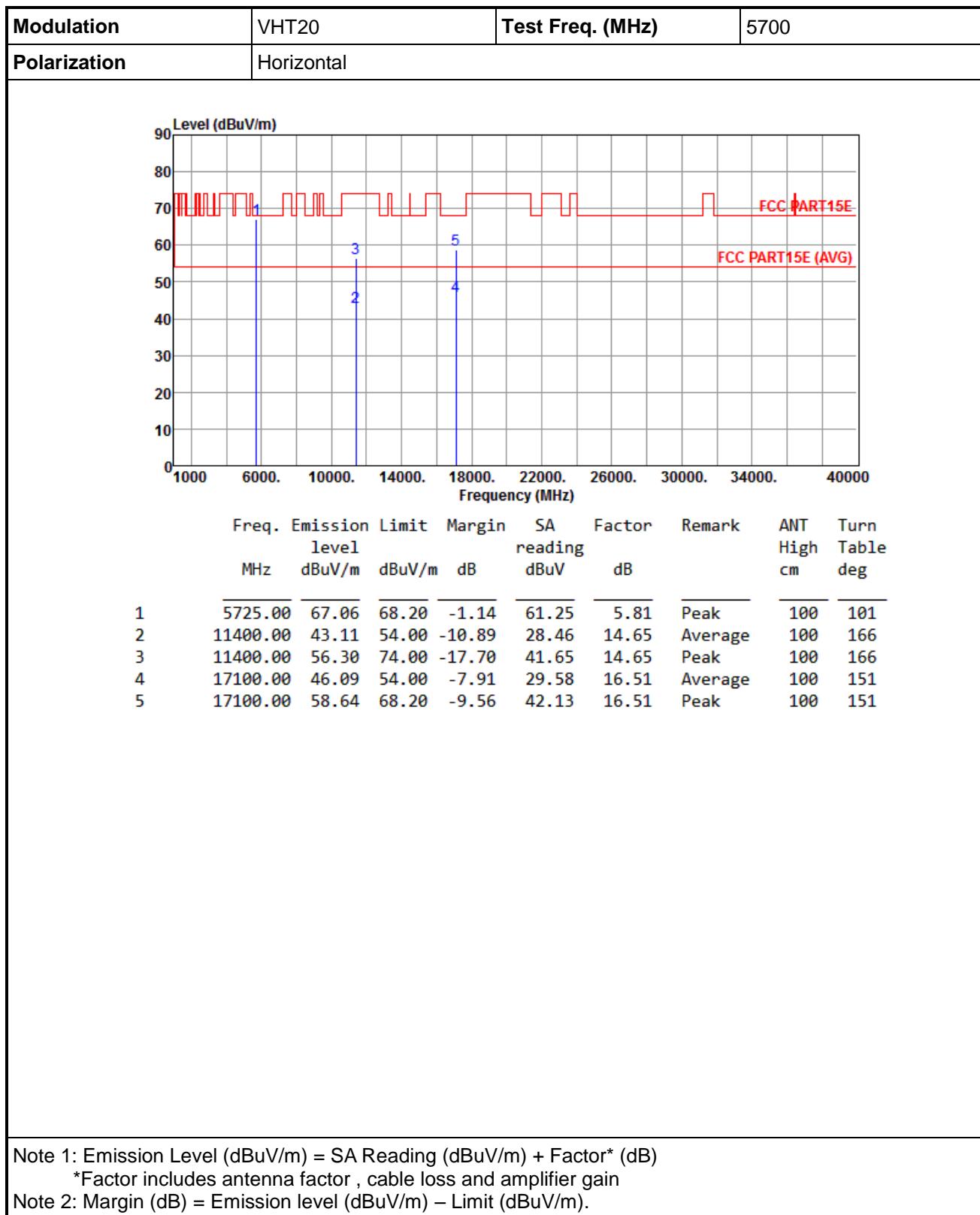
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

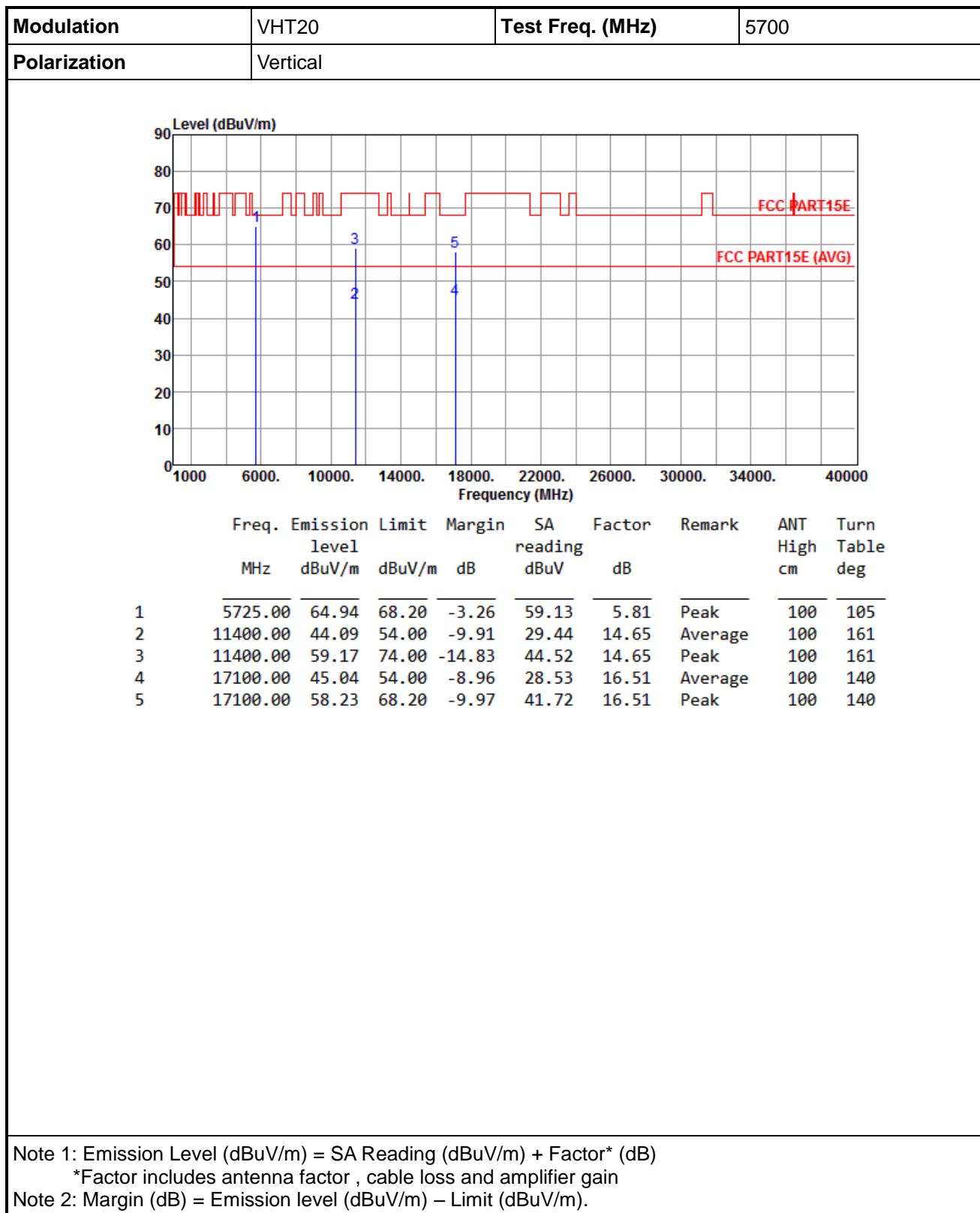


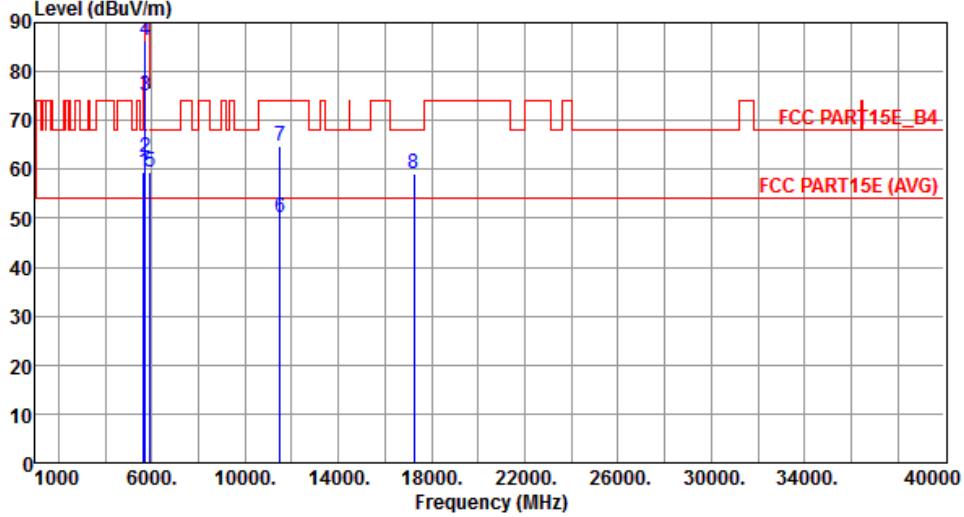


Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																																							
Polarization	Horizontal																																																																																																																									
																																																																																																																										
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																		
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Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																												
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																							
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3	5460.00	46.61	54.00 -7.39	41.15	5.46	Average	108	96																																																																																																							
4	5460.00	58.99	74.00 -15.01	53.53	5.46	Peak	108	96																																																																																																							
5	5470.00	60.19	68.20 -8.01	54.72	5.47	Peak	108	96																																																																																																							
6	5725.00	59.32	68.20 -8.88	53.51	5.81	Peak	108	96																																																																																																							
7	7440.00	37.81	54.00 -16.19	28.31	9.50	Average	100	348																																																																																																							
8	7440.00	49.91	74.00 -24.09	40.41	9.50	Peak	100	348																																																																																																							
9	11160.00	43.37	54.00 -10.63	28.93	14.44	Average	151	197																																																																																																							
10	11160.00	59.00	74.00 -15.00	44.56	14.44	Peak	151	197																																																																																																							
11	16740.00	58.72	68.20 -9.48	42.75	15.97	Peak	100	163																																																																																																							
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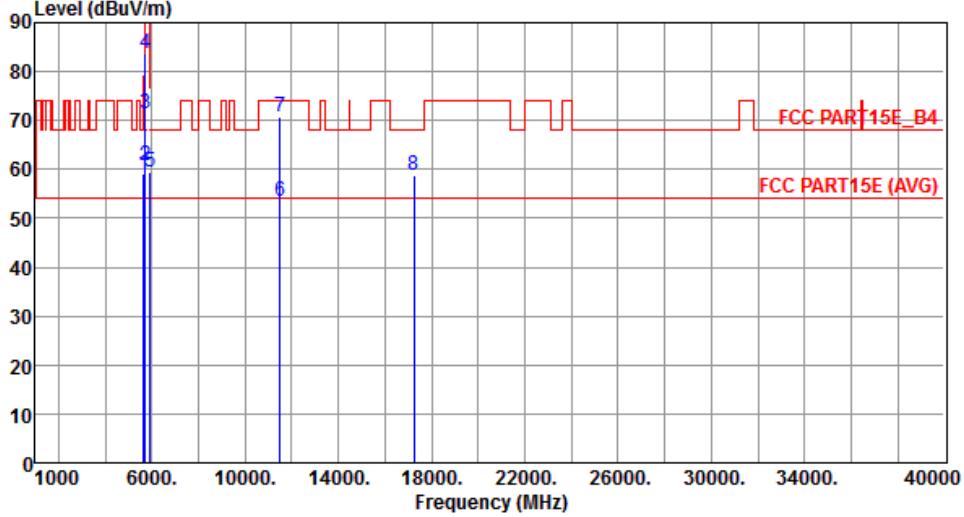


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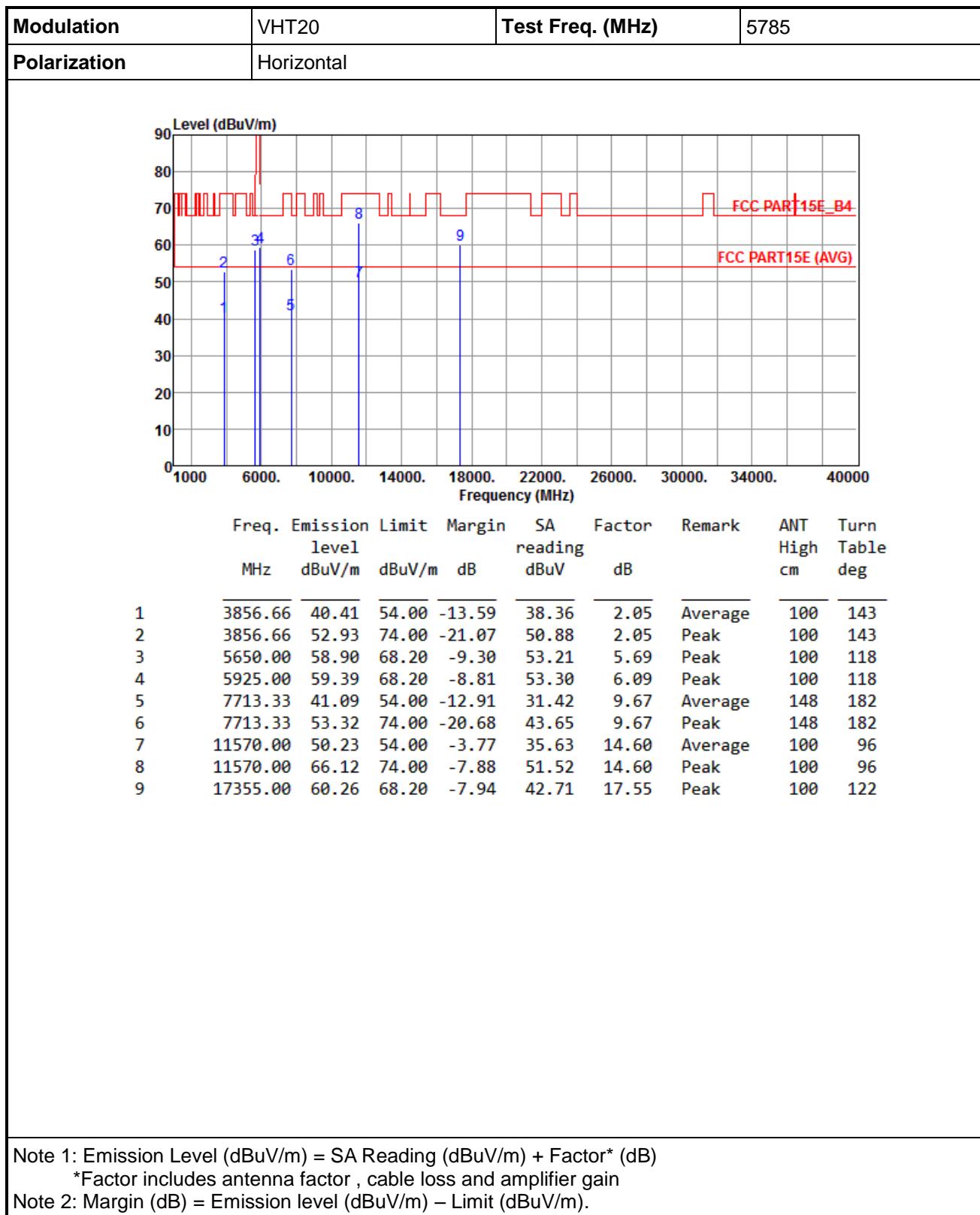
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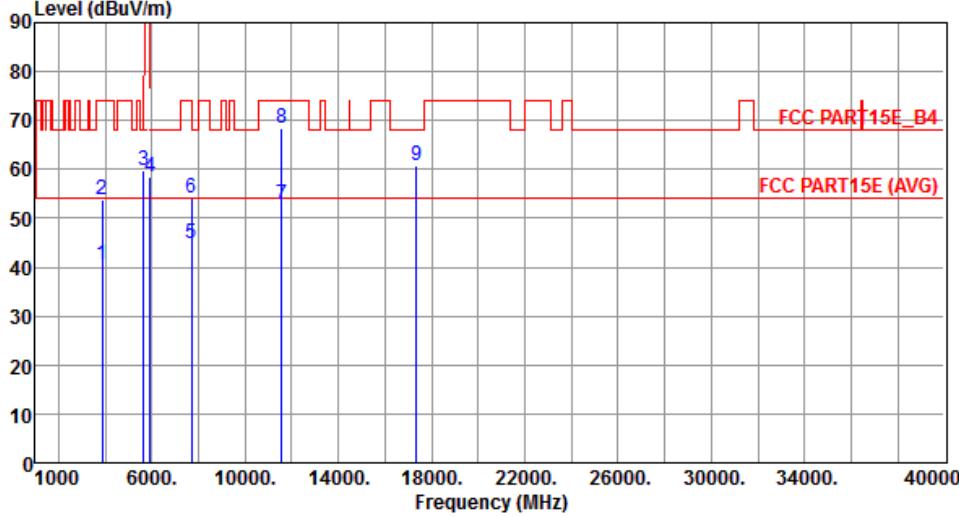
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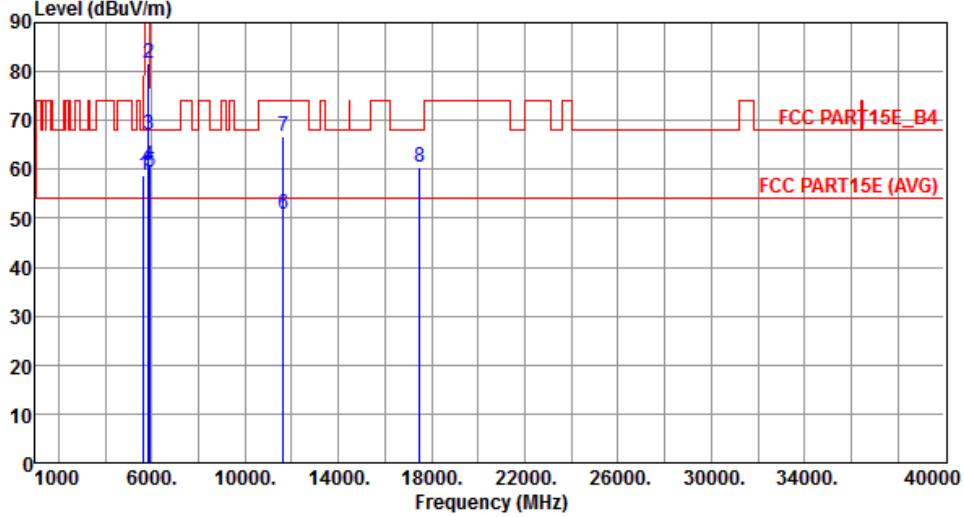


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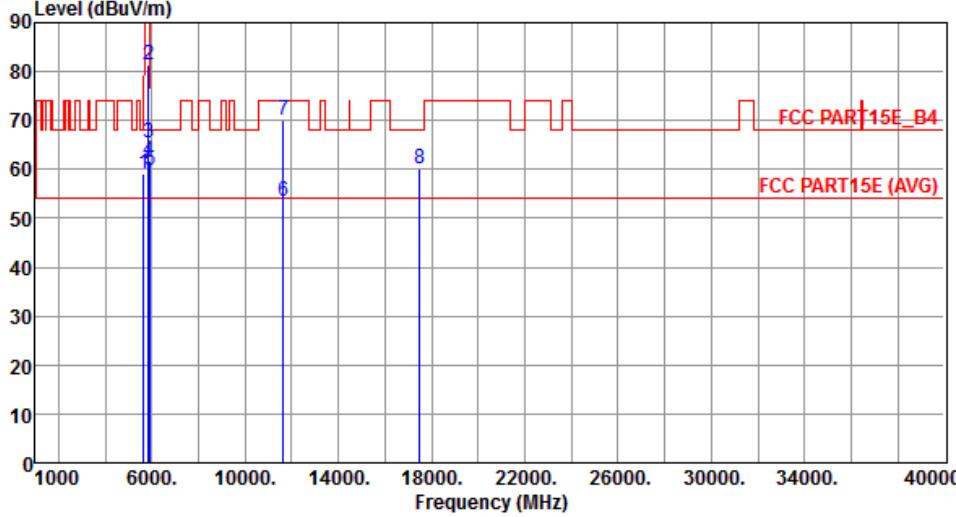
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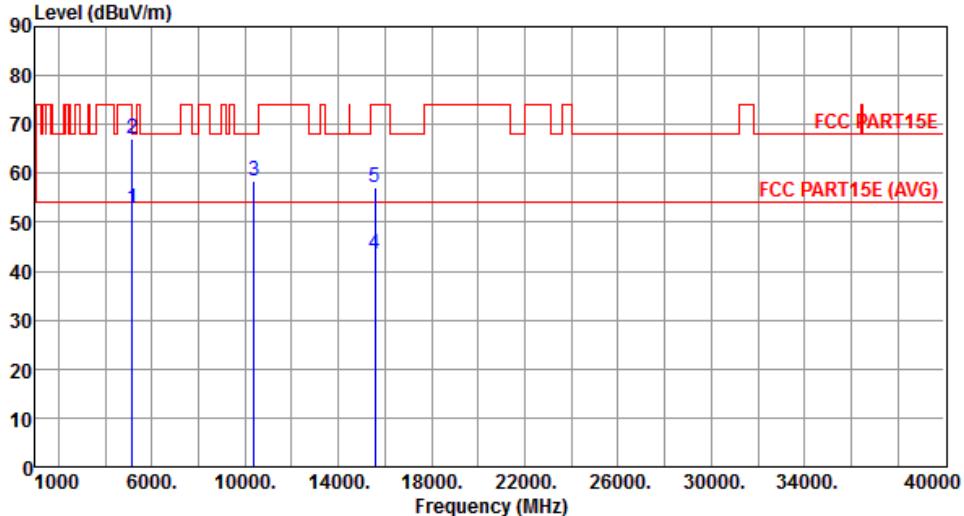
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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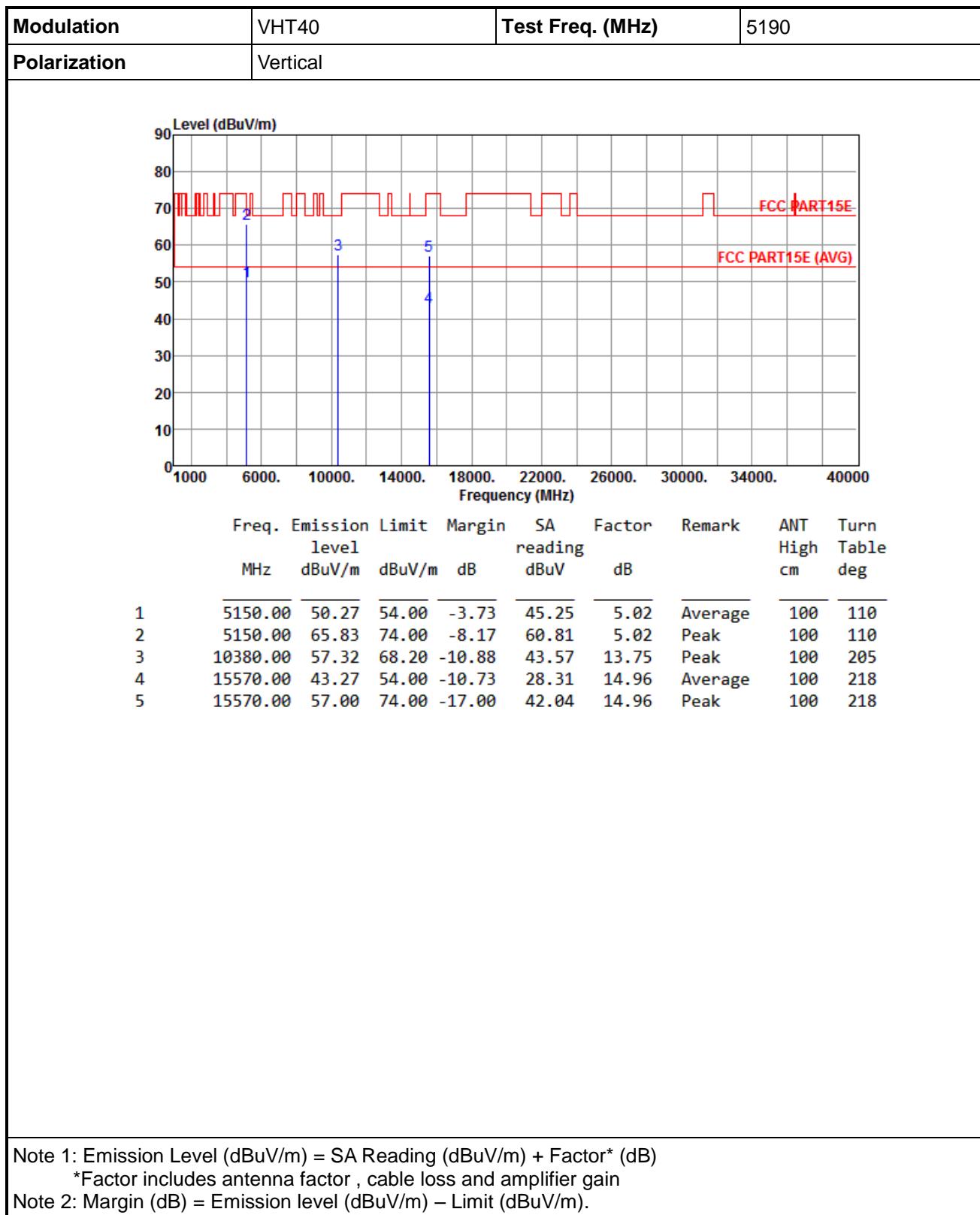
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190																																																						
Polarization	Horizontal																																																								
																																																									
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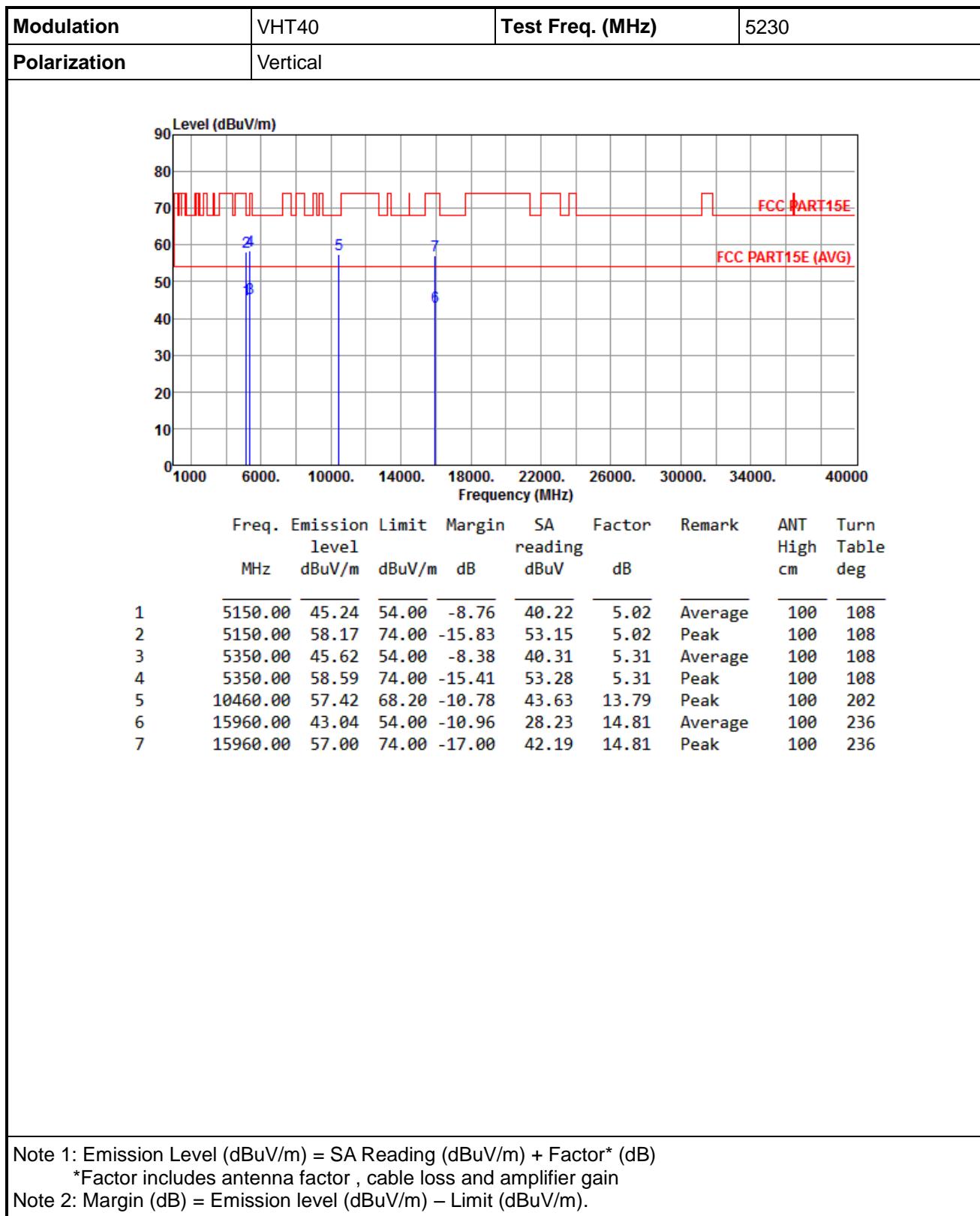


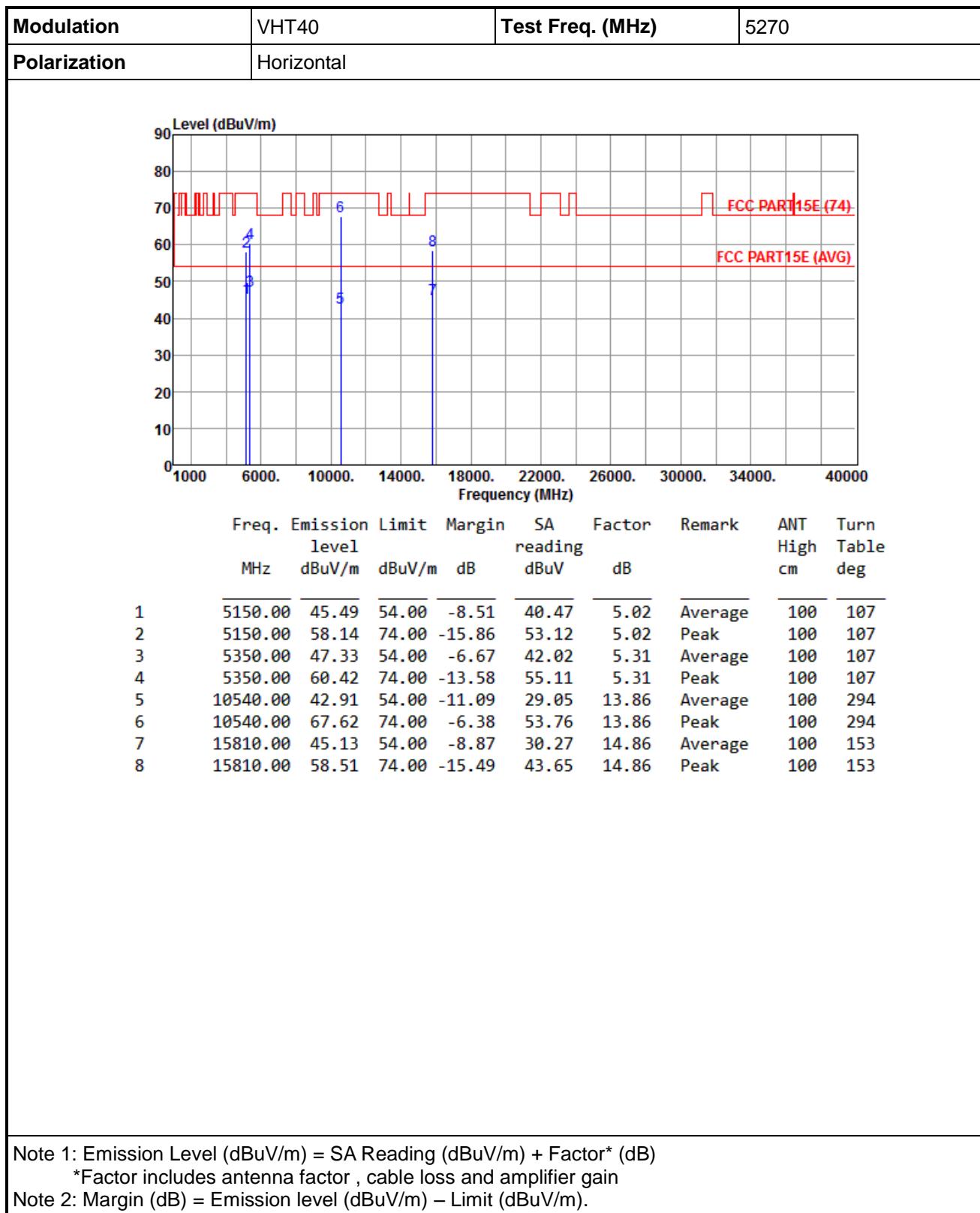
Modulation	VHT40	Test Freq. (MHz)	5230																																																																															
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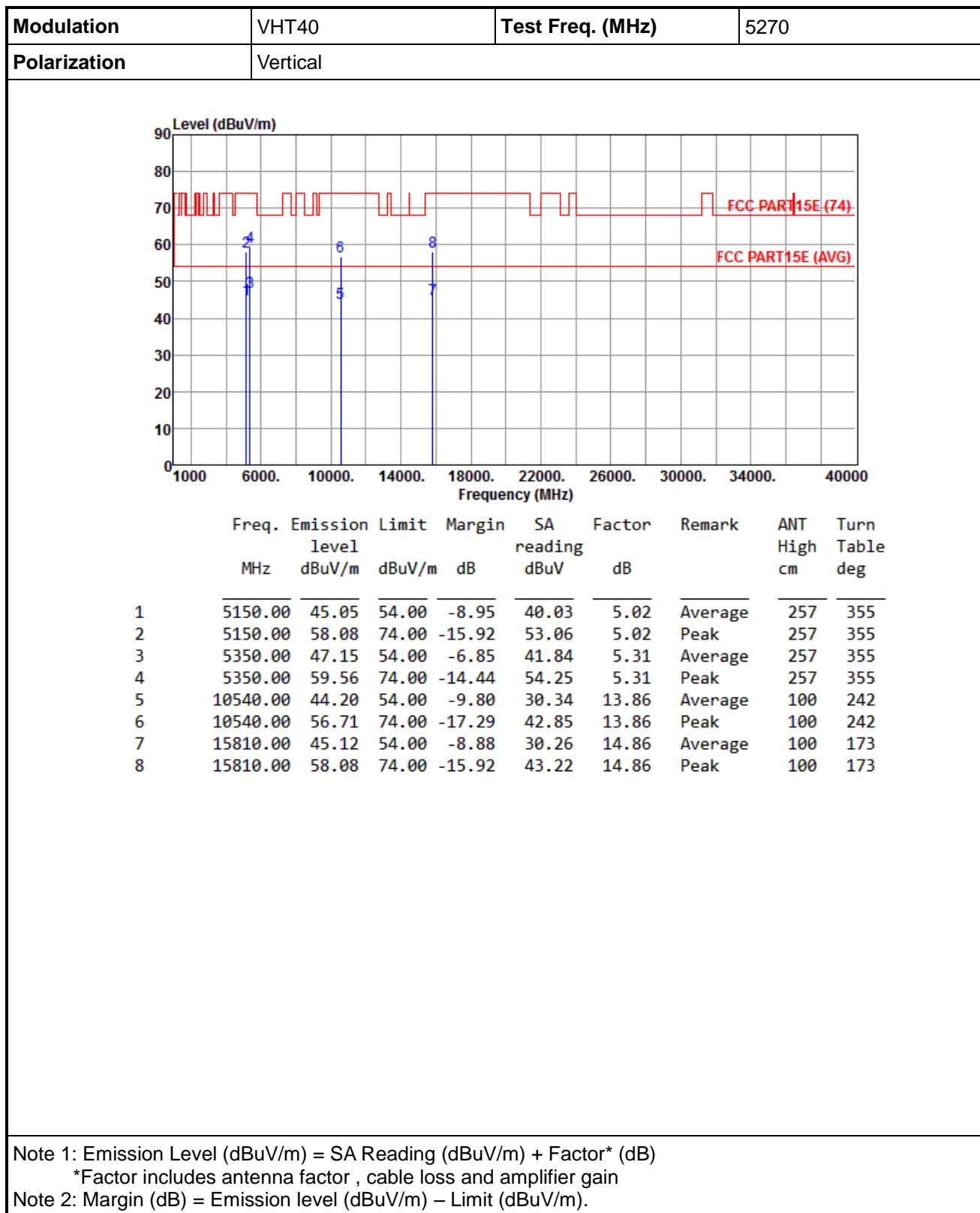
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

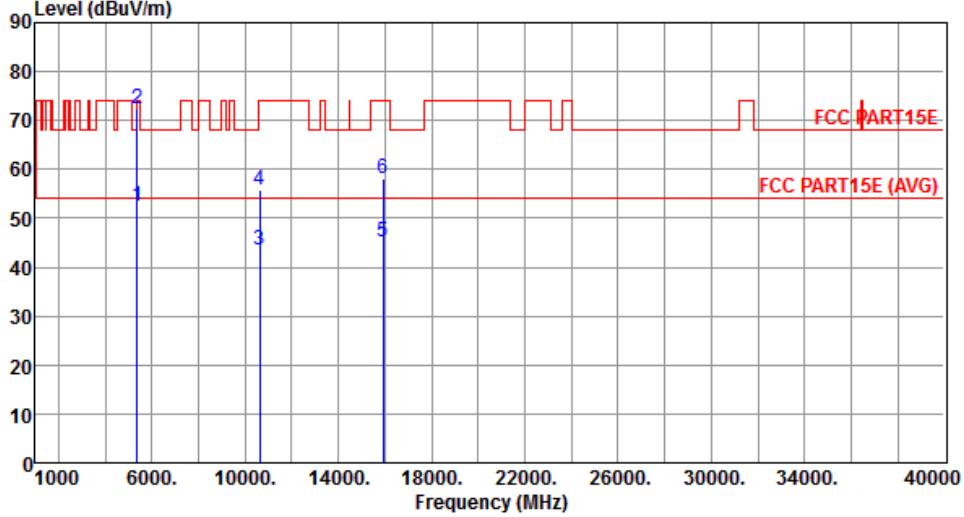
*Factor includes antenna factor , cable loss and amplifier gain

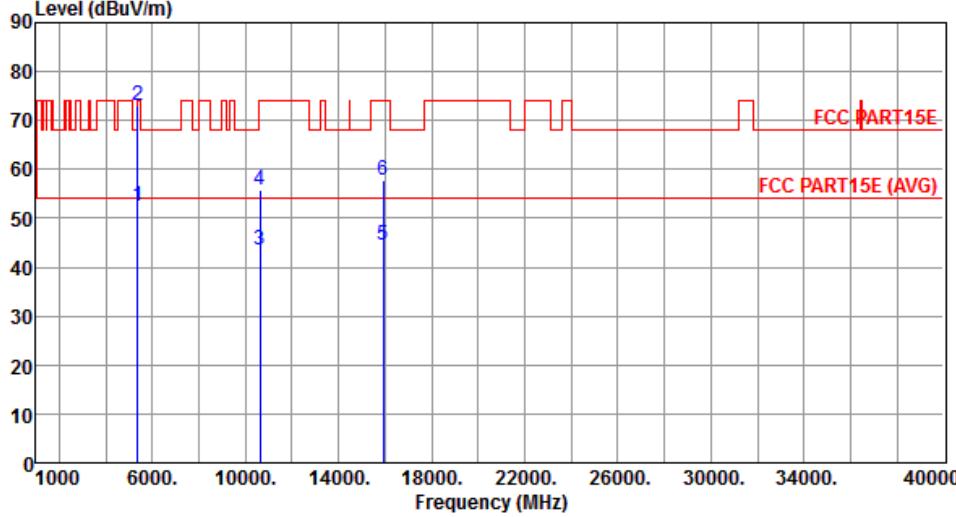
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).







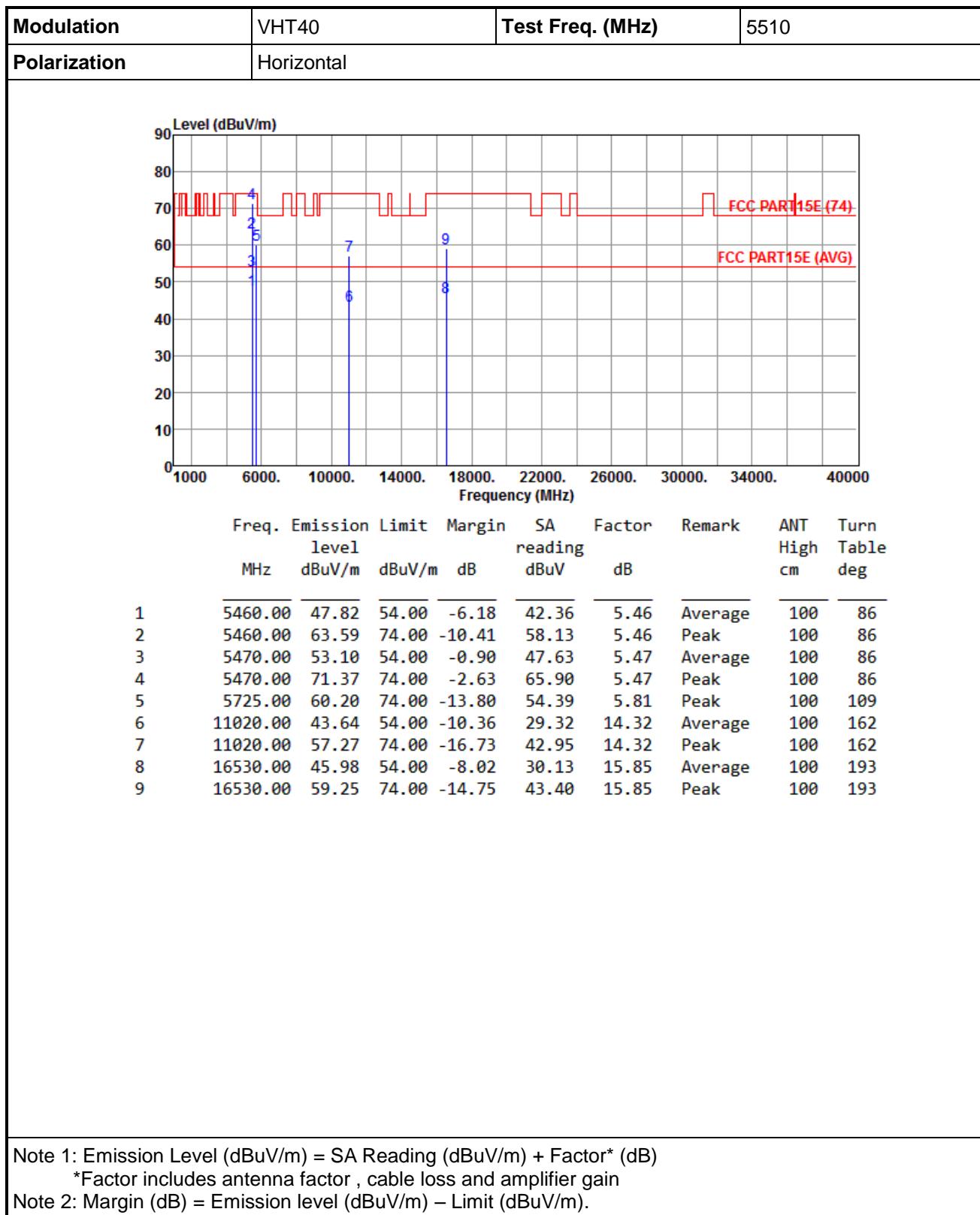
Modulation	VHT40	Test Freq. (MHz)	5310																																																																														
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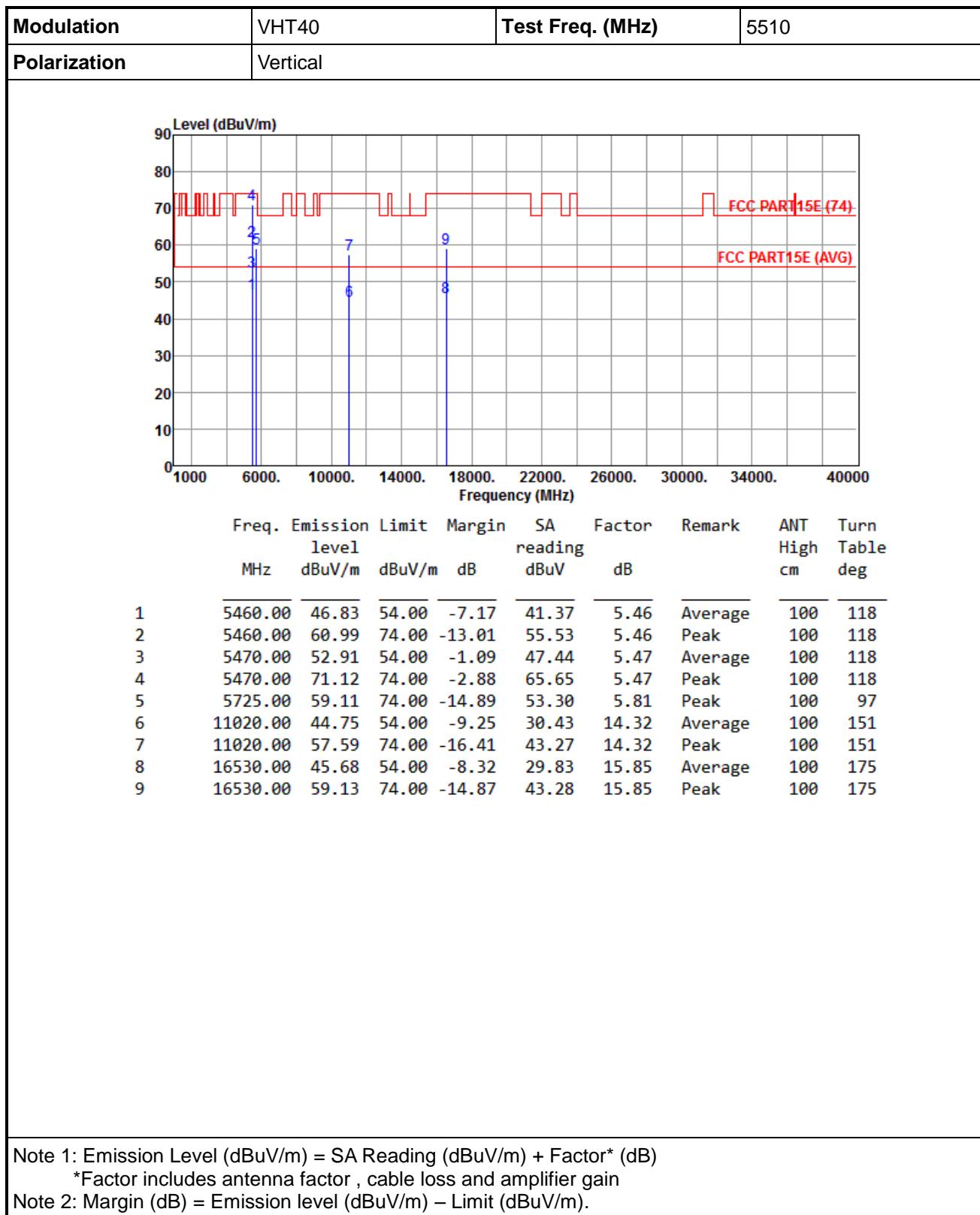
Modulation	VHT40	Test Freq. (MHz)	5310																																																															
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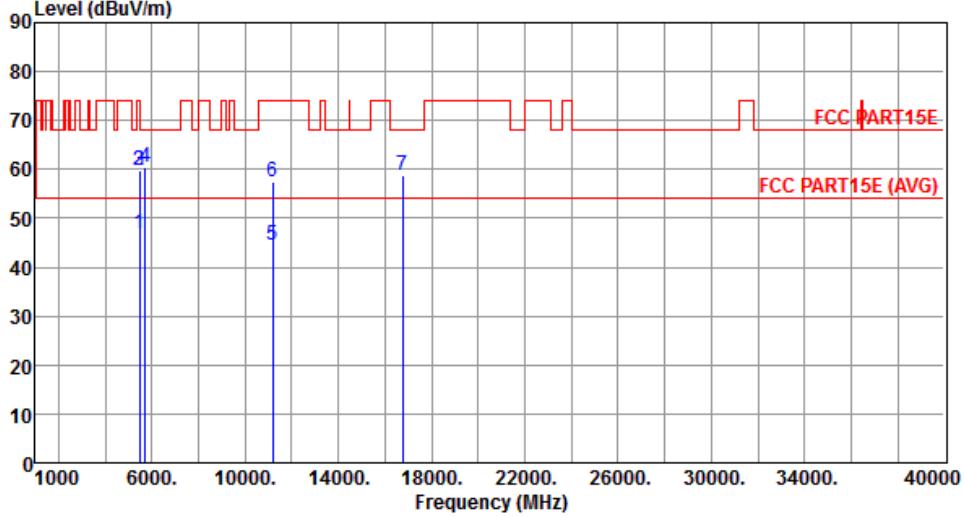
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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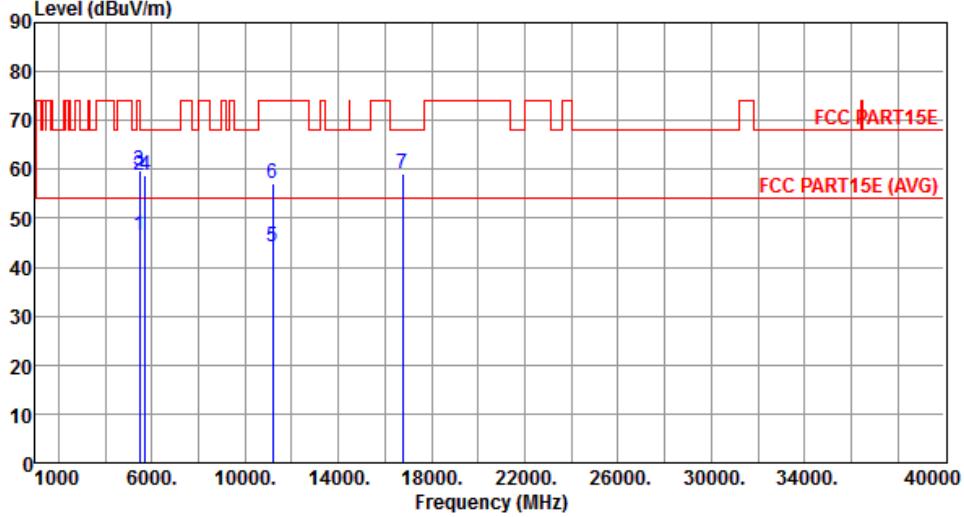


Modulation	VHT40	Test Freq. (MHz)	5590																																																																															
Polarization	Horizontal																																																																																	
																																																																																		
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

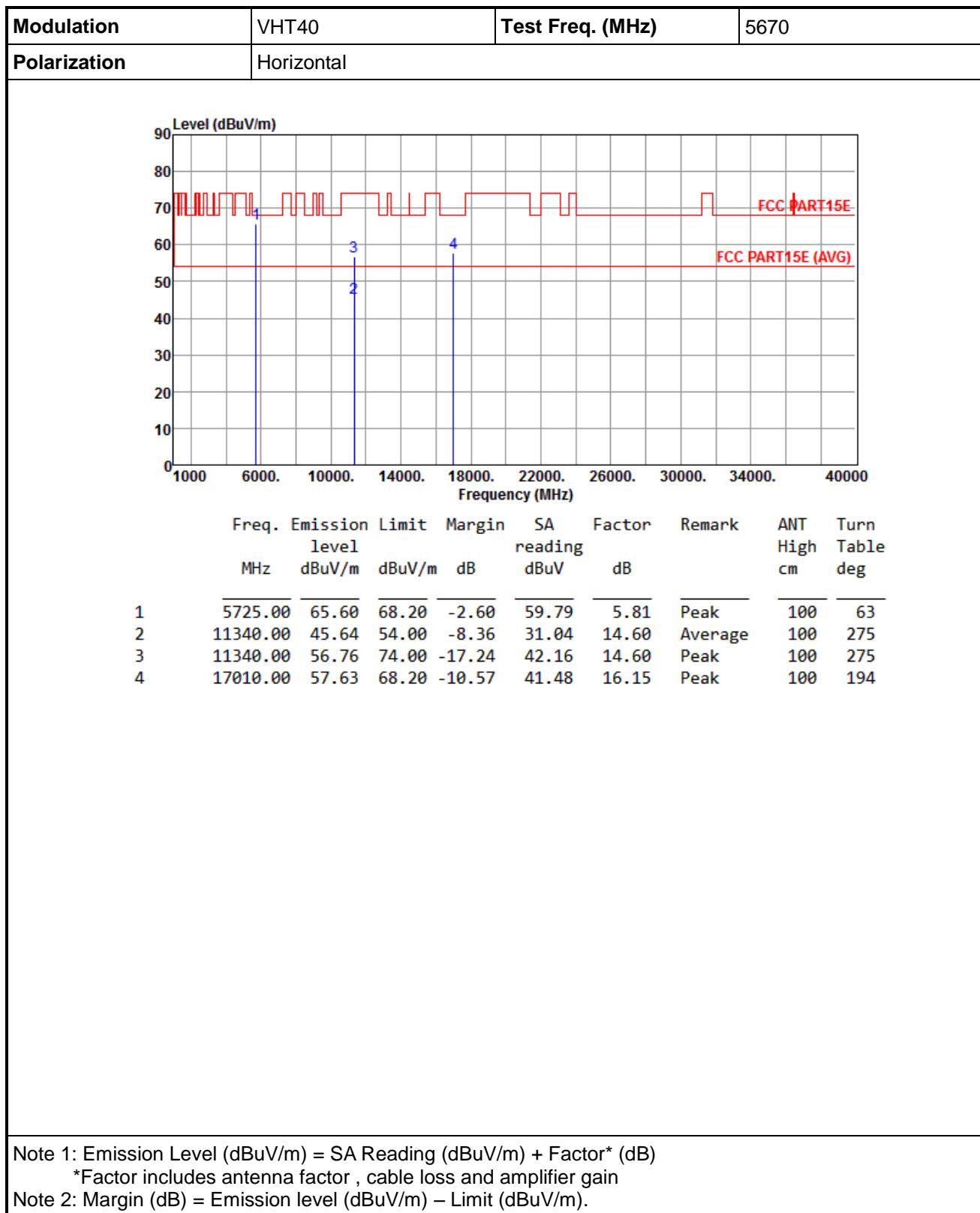
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

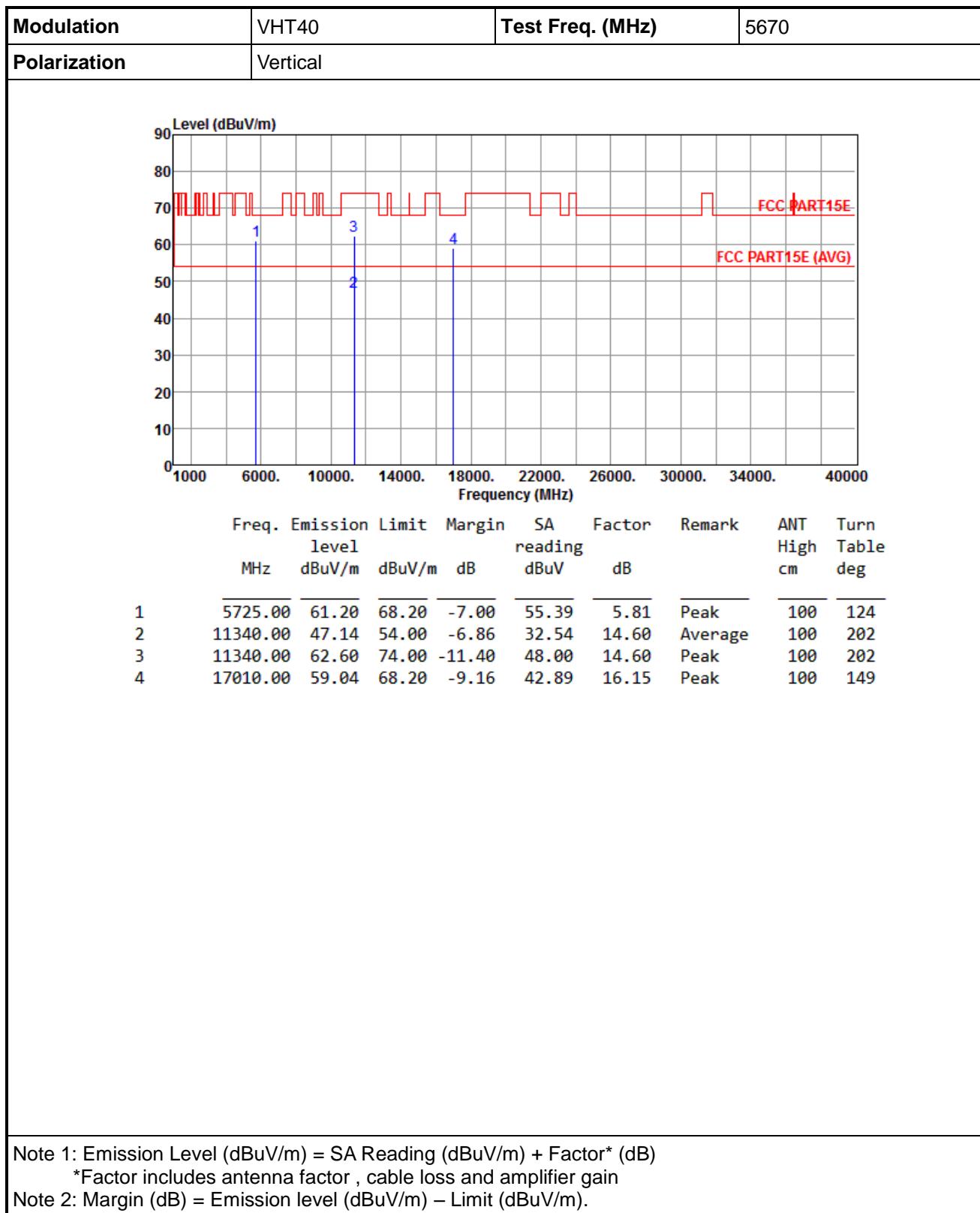
Modulation	VHT40	Test Freq. (MHz)	5590																																																																								
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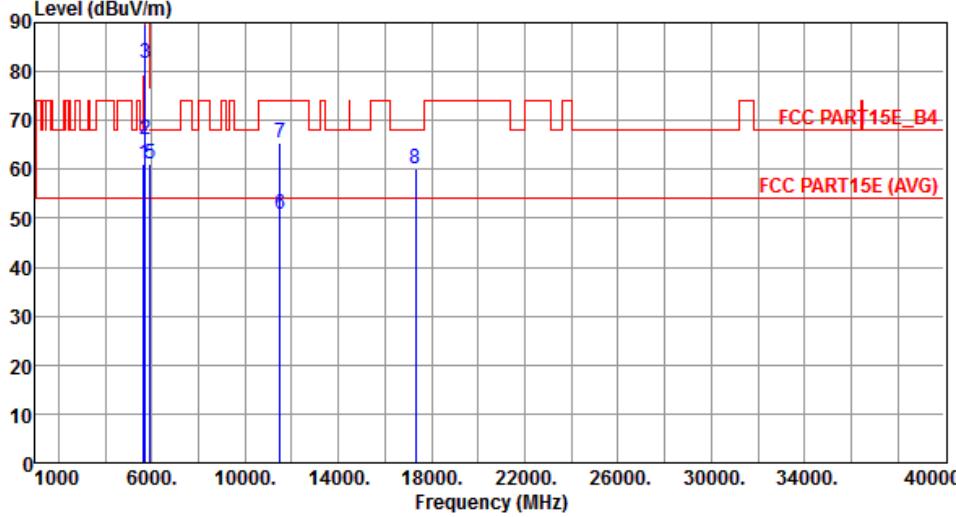
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



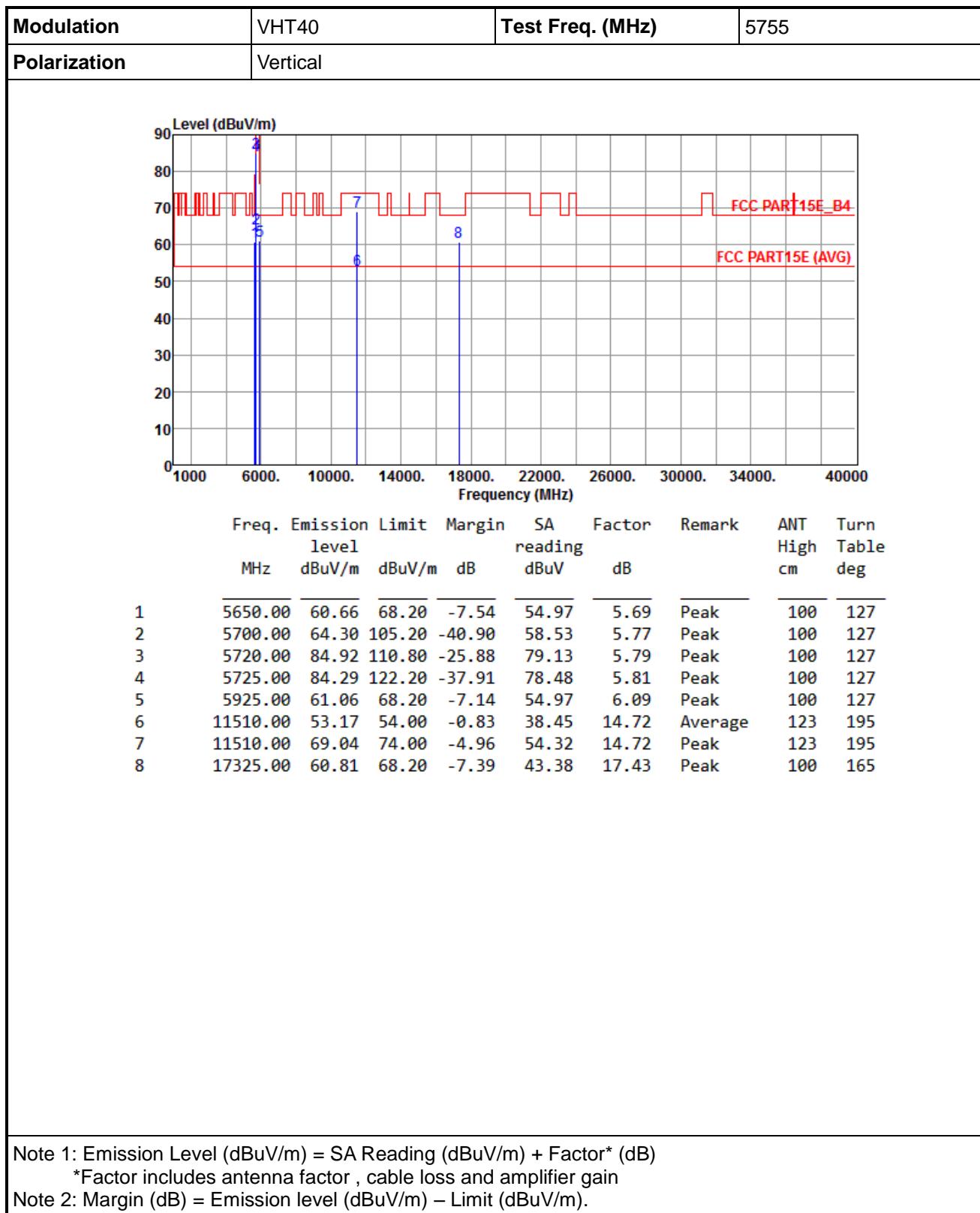


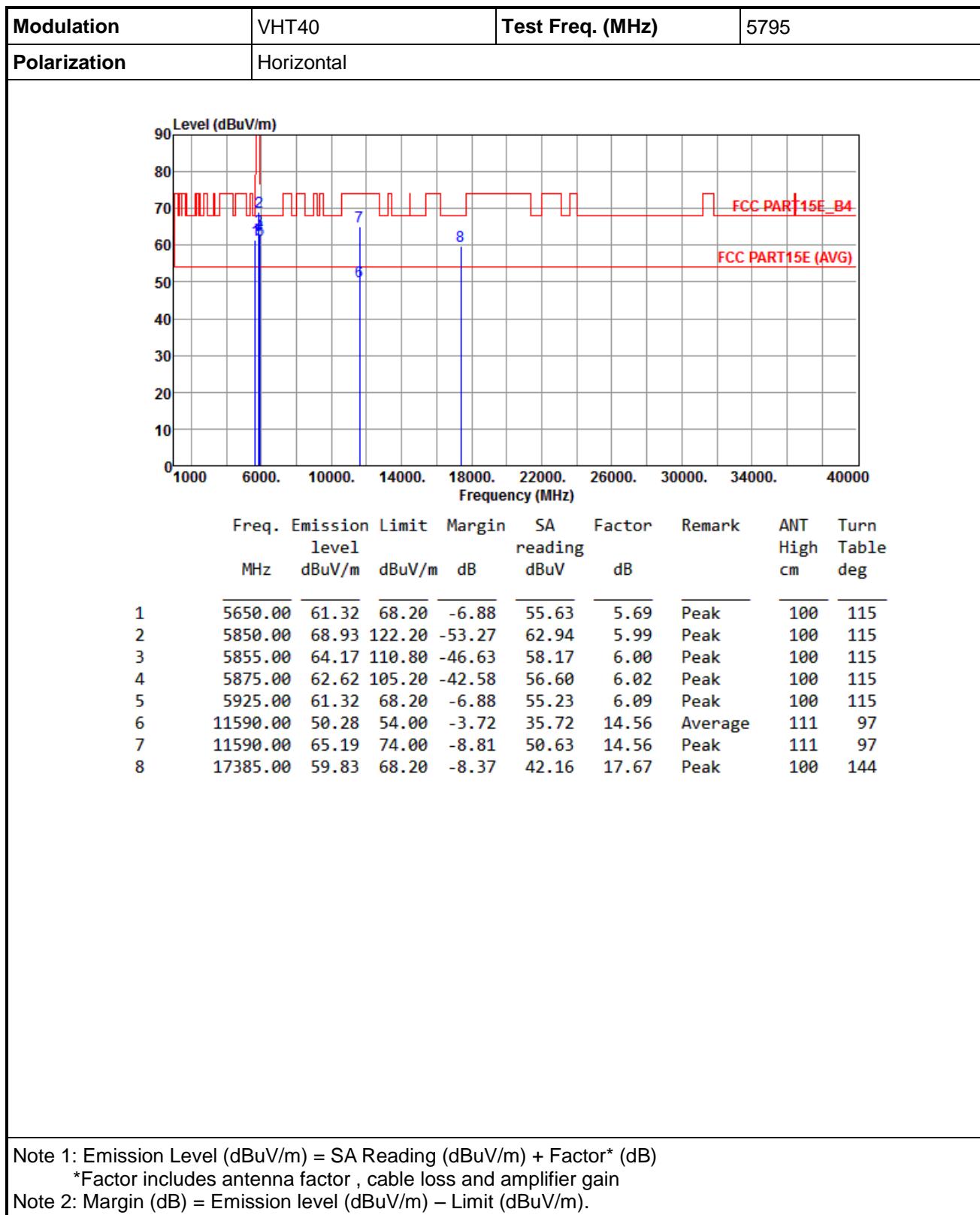
Modulation	VHT40	Test Freq. (MHz)	5755																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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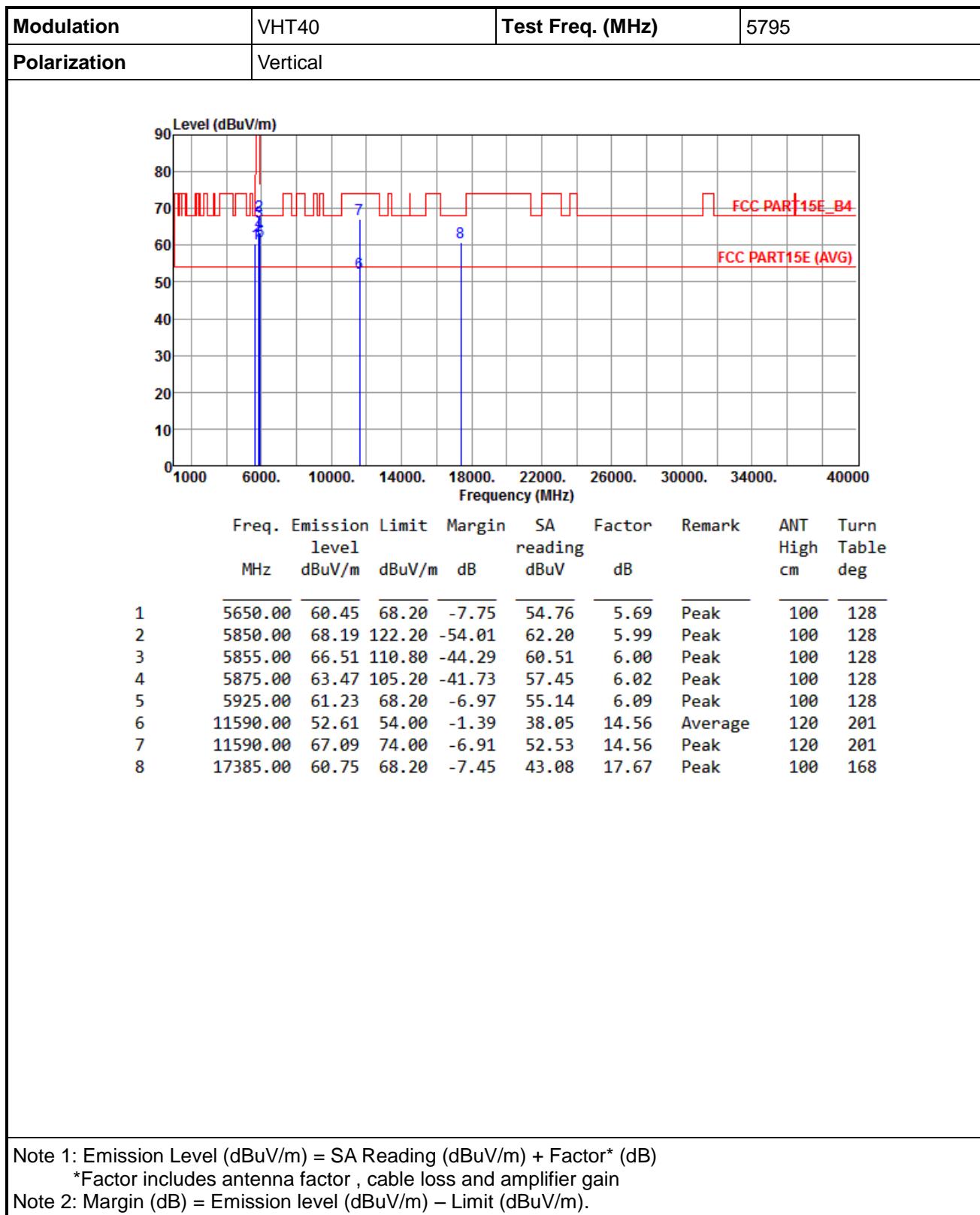
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

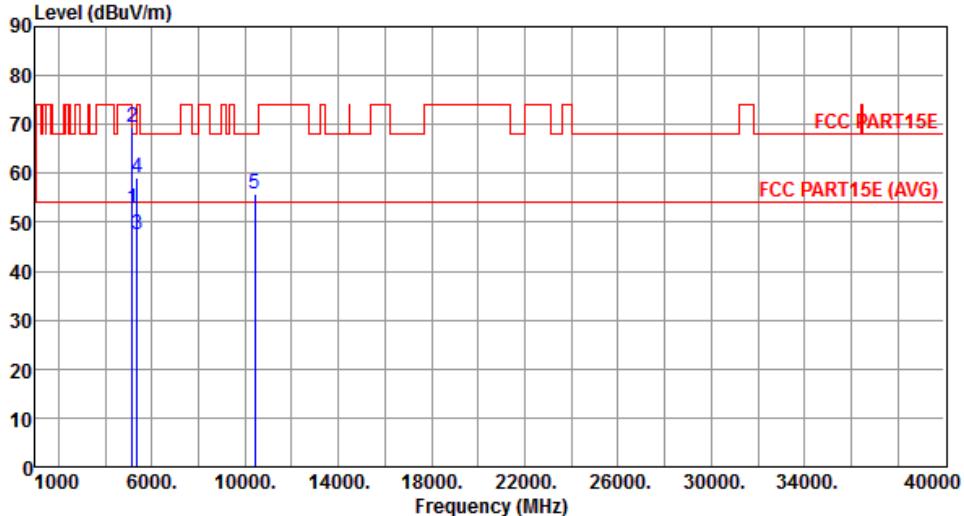
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

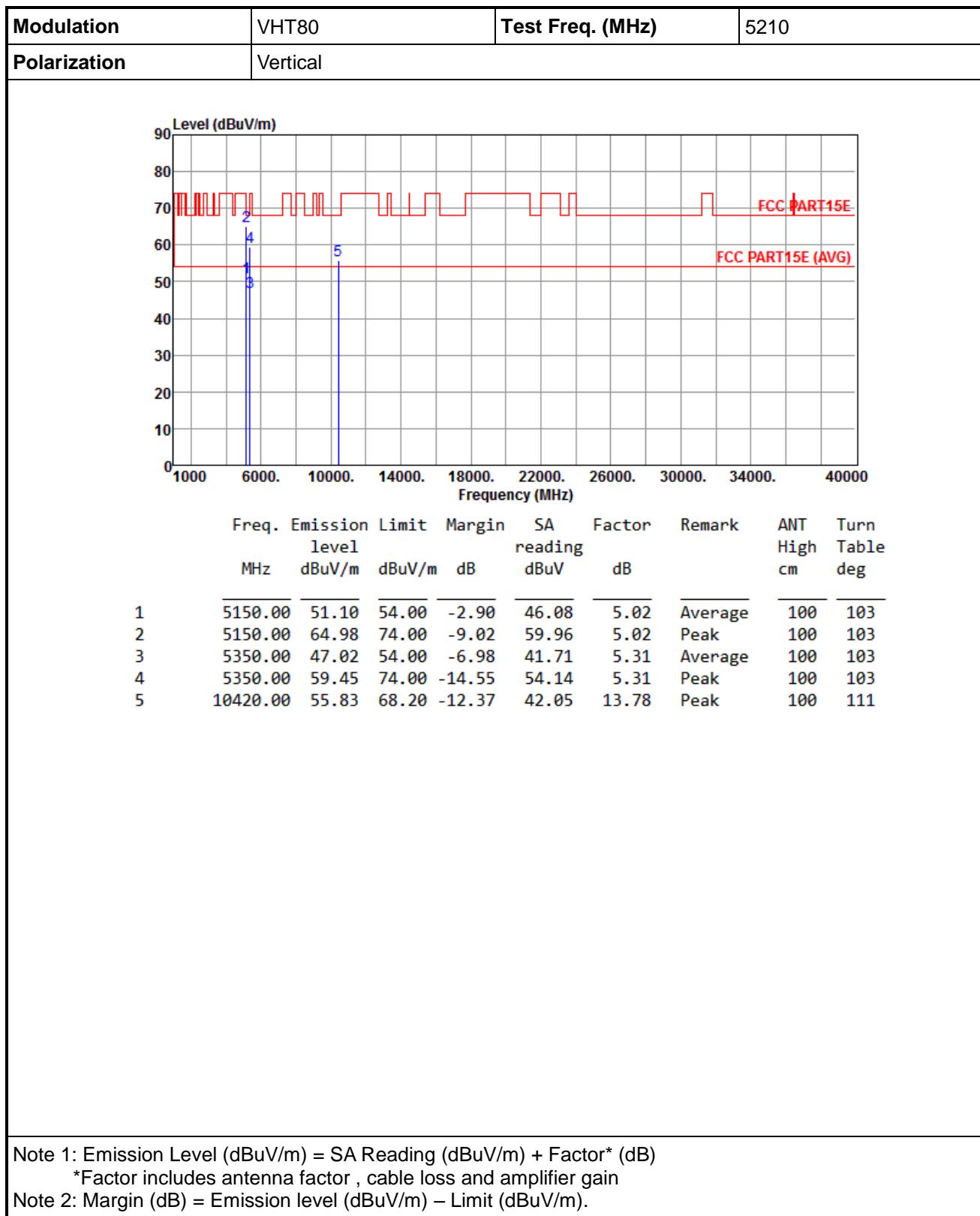


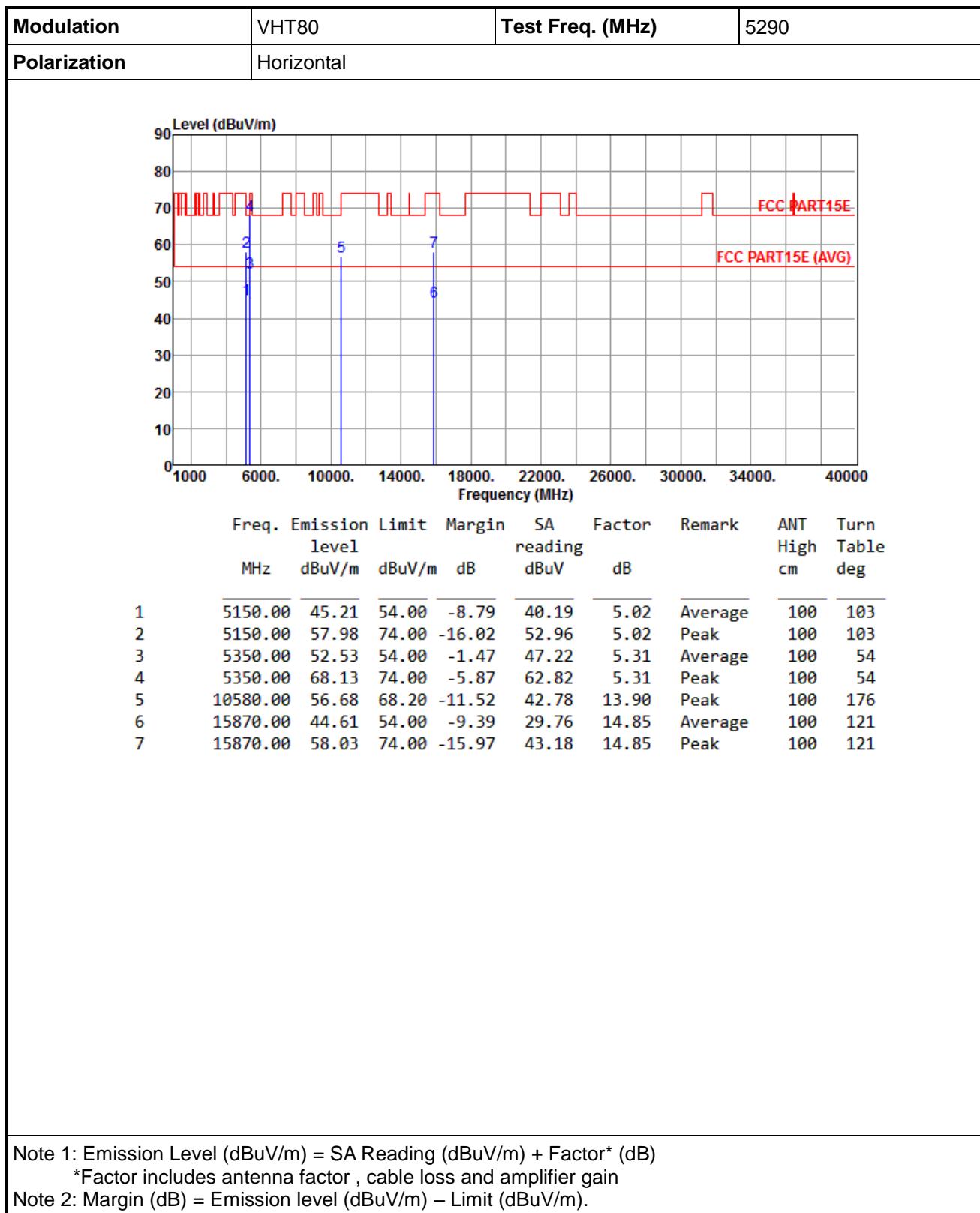


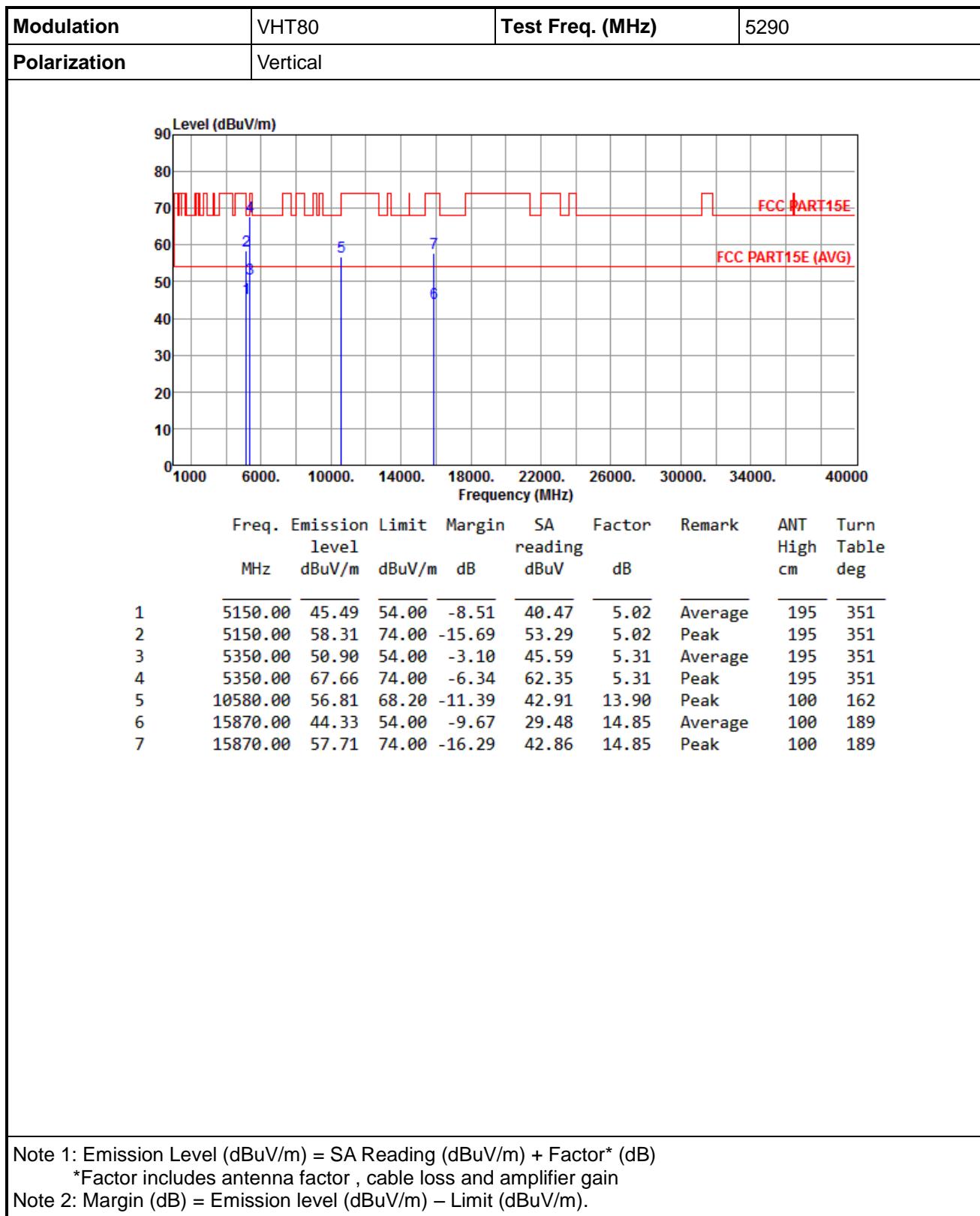


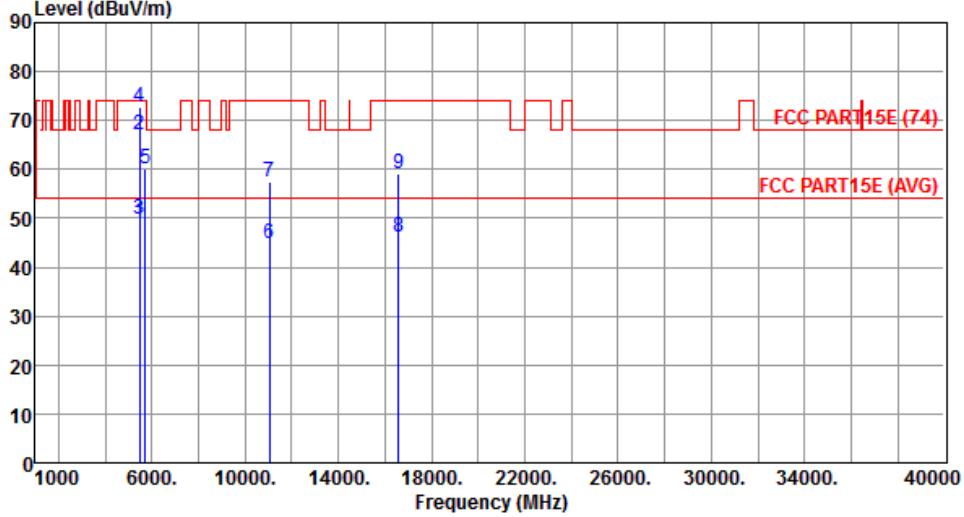
3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

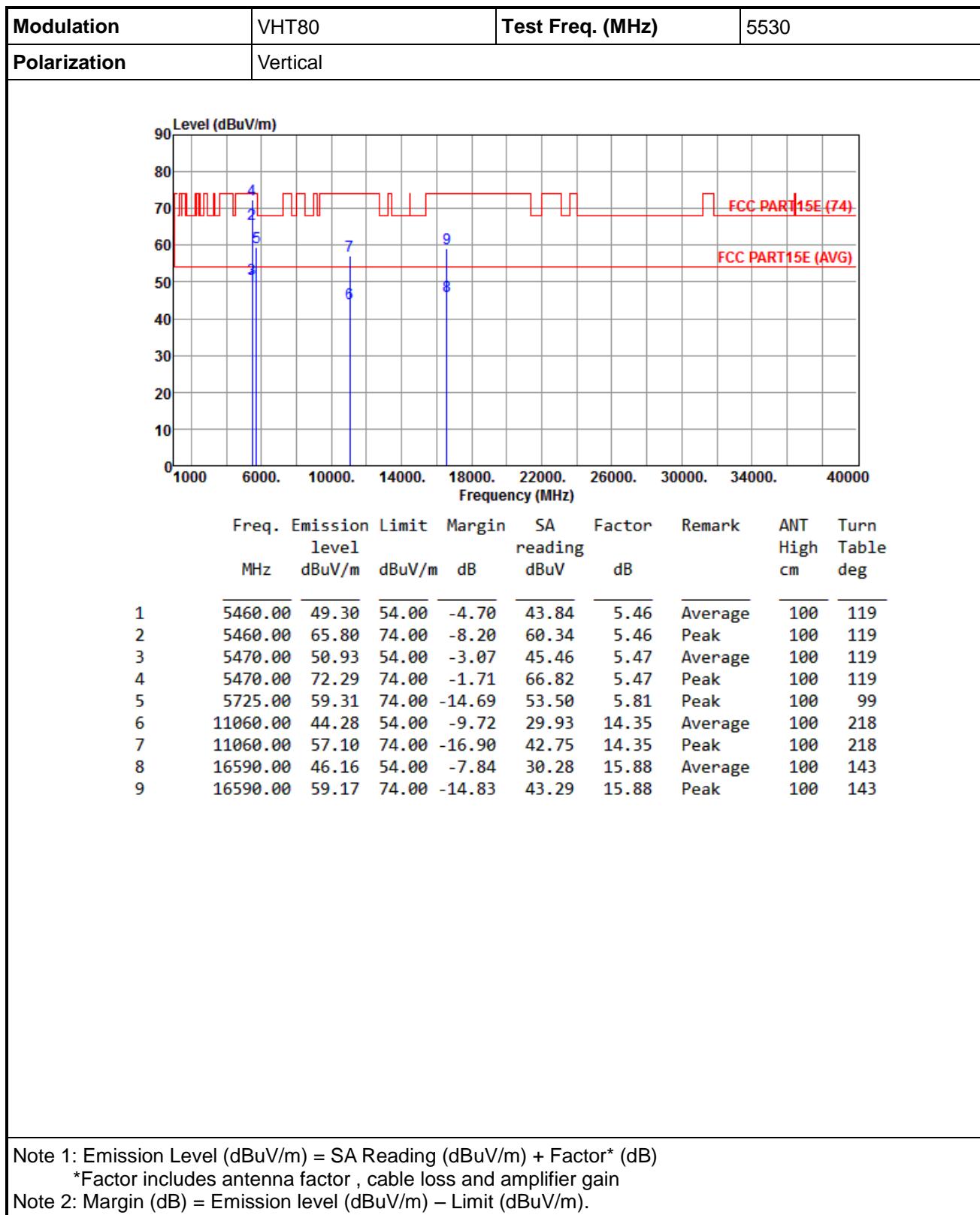
Modulation	VHT80	Test Freq. (MHz)	5210																																																											
Polarization	Horizontal																																																													
																																																														
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Modulation	VHT80	Test Freq. (MHz)	5530																																																																																																												
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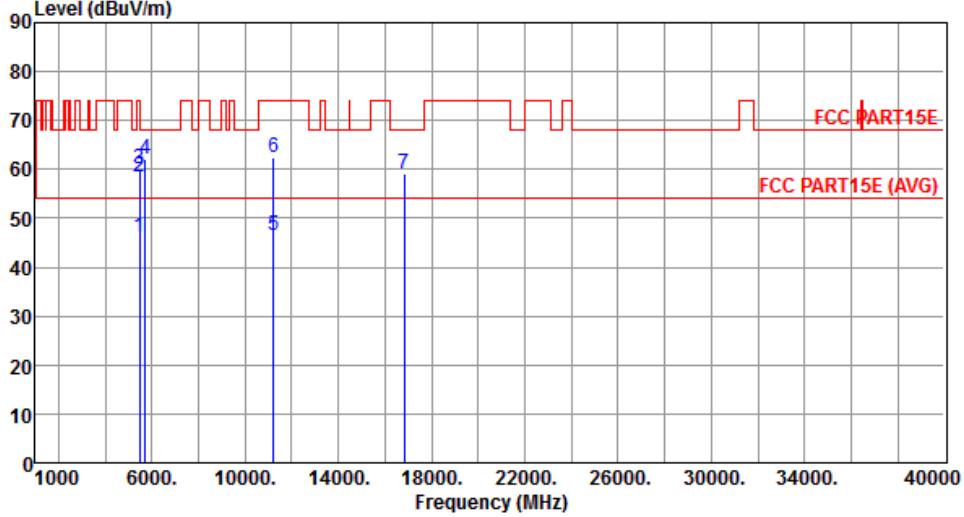


Modulation	VHT80	Test Freq. (MHz)	5610																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

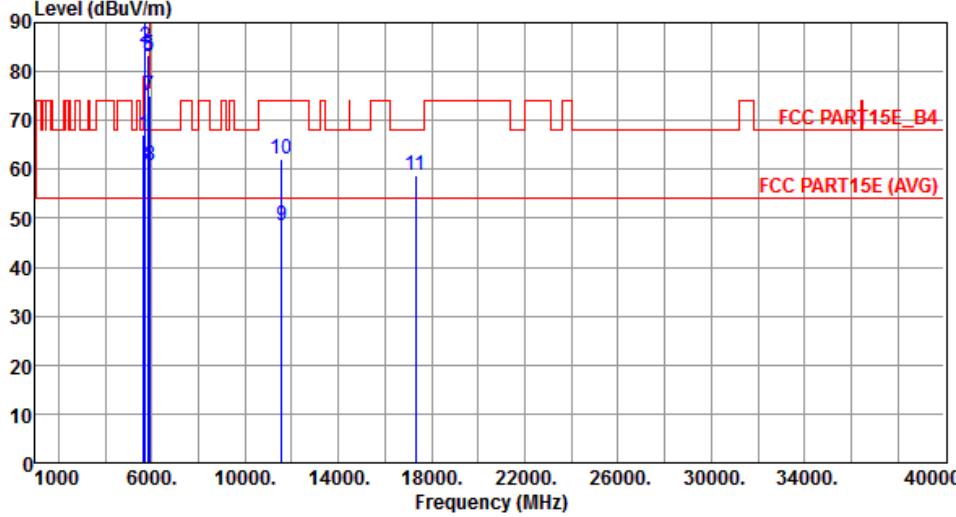
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

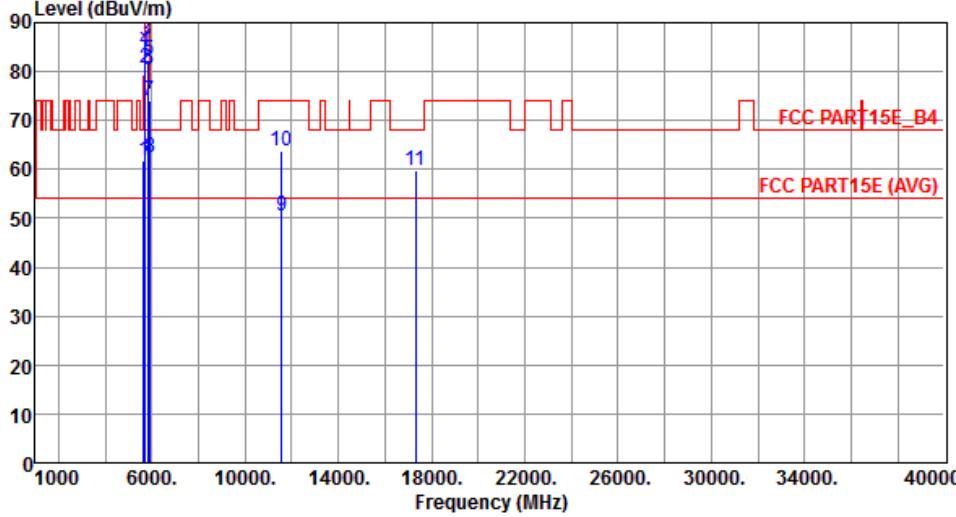
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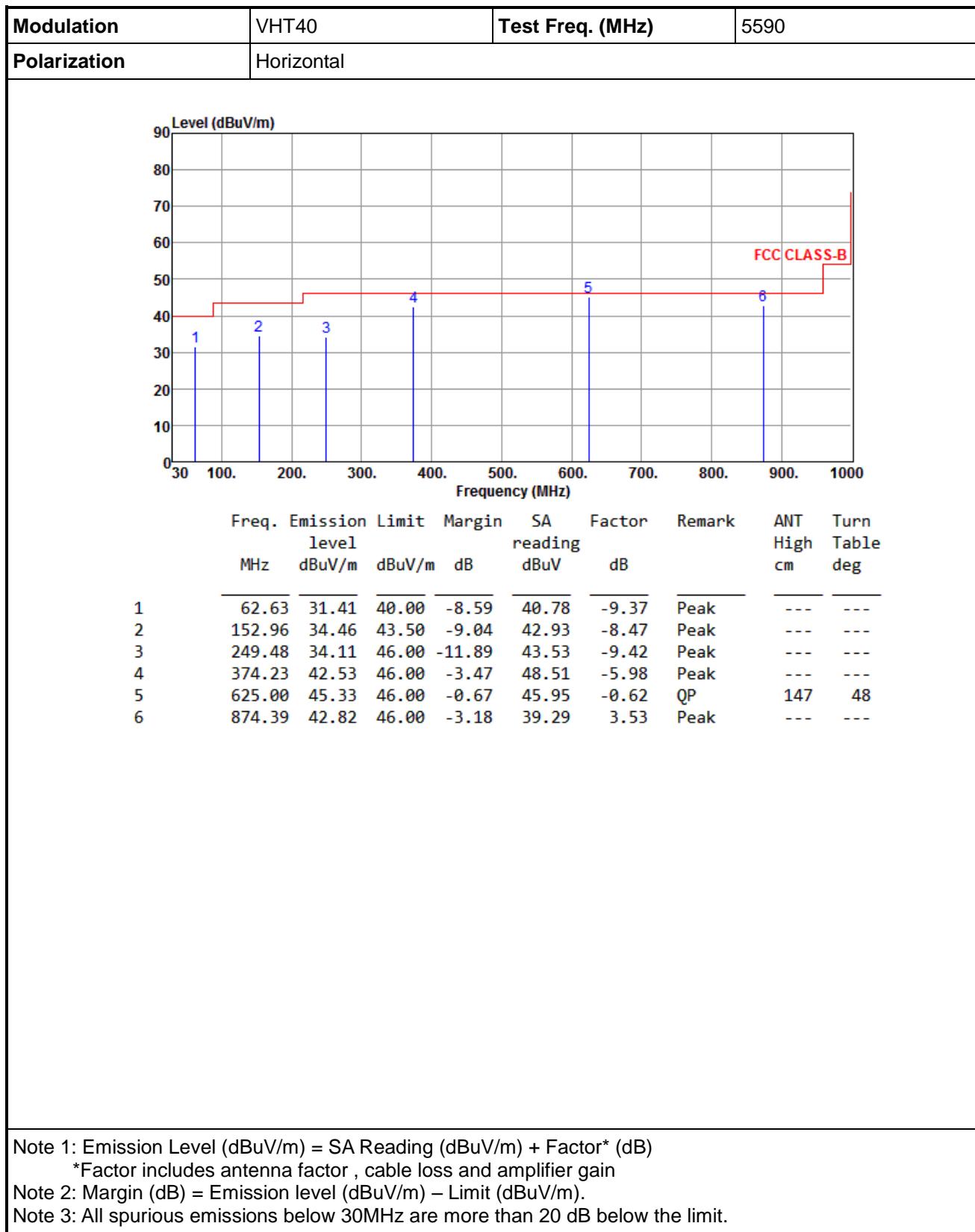
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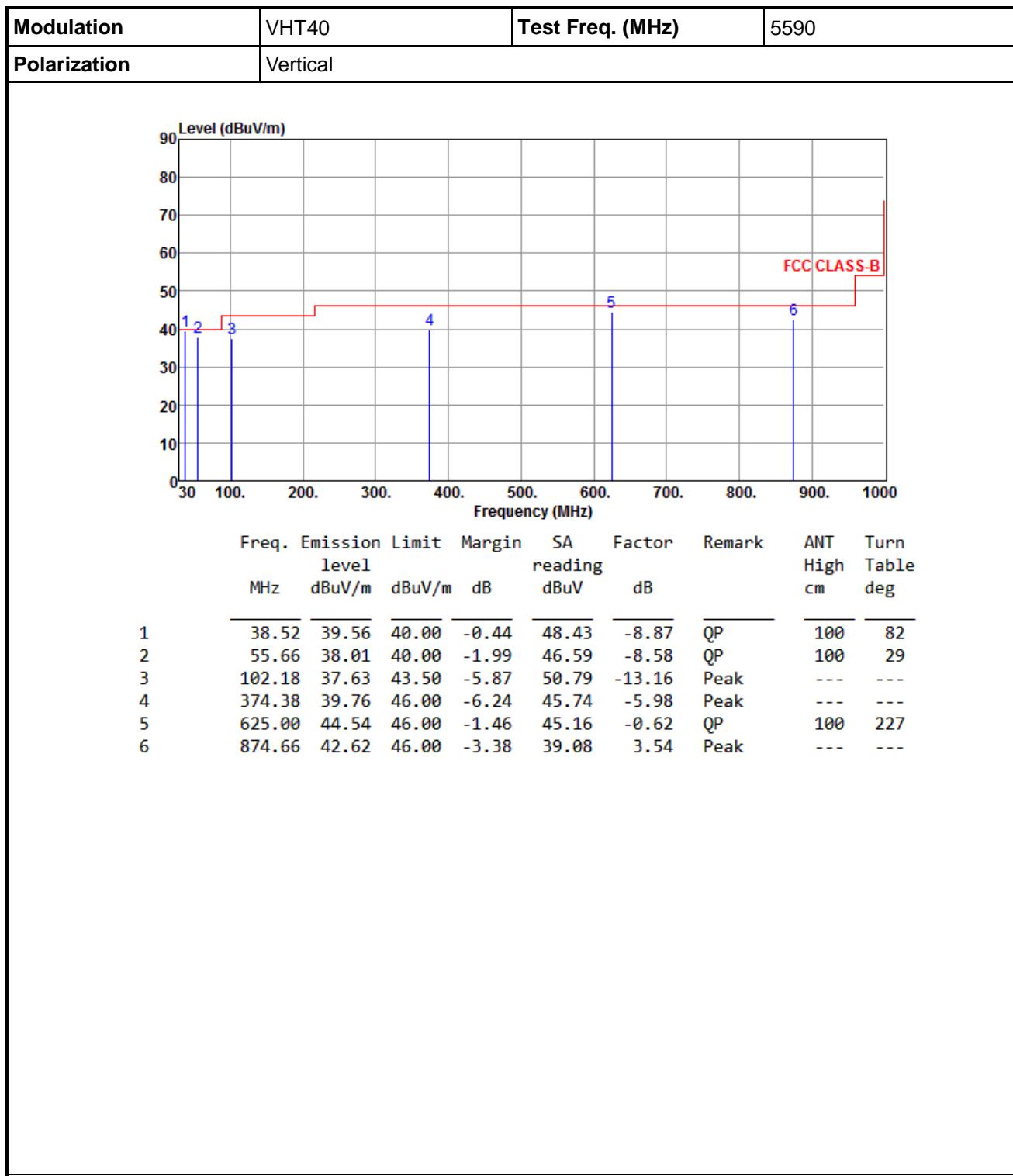
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Modulation	VHT80	Test Freq. (MHz)	5775																																																																																																												
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq. MHz</th> <th style="text-align: left;">Emission level dBuV/m</th> <th style="text-align: left;">Limit dBuV/m</th> <th style="text-align: left;">Margin dB</th> <th style="text-align: left;">SA reading dBuV</th> <th style="text-align: left;">Factor dB</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT High cm</th> <th style="text-align: left;">Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1 5650.00</td> <td>61.91</td> <td>68.20</td> <td>-6.29</td> <td>56.22</td> <td>5.69</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>2 5700.00</td> <td>80.63</td> <td>105.20</td> <td>-24.57</td> <td>74.86</td> <td>5.77</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>3 5720.00</td> <td>86.50</td> <td>110.80</td> <td>-24.30</td> <td>80.71</td> <td>5.79</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>4 5725.00</td> <td>84.49</td> <td>122.20</td> <td>-37.71</td> <td>78.68</td> <td>5.81</td> <td>Peak</td> <td>100</td> <td>163</td> </tr> <tr> <td>5 5850.00</td> <td>82.49</td> <td>122.20</td> <td>-39.71</td> <td>76.50</td> <td>5.99</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>6 5855.00</td> <td>80.46</td> <td>110.80</td> <td>-30.34</td> <td>74.46</td> <td>6.00</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>7 5875.00</td> <td>73.95</td> <td>105.20</td> <td>-31.25</td> <td>67.93</td> <td>6.02</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>8 5925.00</td> <td>62.59</td> <td>68.20</td> <td>-5.61</td> <td>56.50</td> <td>6.09</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>9 11550.00</td> <td>50.39</td> <td>54.00</td> <td>-3.61</td> <td>35.75</td> <td>14.64</td> <td>Average</td> <td>100</td> <td>196</td> </tr> <tr> <td>10 11550.00</td> <td>63.84</td> <td>74.00</td> <td>-10.16</td> <td>49.20</td> <td>14.64</td> <td>Peak</td> <td>100</td> <td>196</td> </tr> <tr> <td>11 17325.00</td> <td>59.63</td> <td>68.20</td> <td>-8.57</td> <td>42.20</td> <td>17.43</td> <td>Peak</td> <td>100</td> <td>163</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1 5650.00	61.91	68.20	-6.29	56.22	5.69	Peak	100	196	2 5700.00	80.63	105.20	-24.57	74.86	5.77	Peak	100	196	3 5720.00	86.50	110.80	-24.30	80.71	5.79	Peak	100	196	4 5725.00	84.49	122.20	-37.71	78.68	5.81	Peak	100	163	5 5850.00	82.49	122.20	-39.71	76.50	5.99	Peak	100	196	6 5855.00	80.46	110.80	-30.34	74.46	6.00	Peak	100	196	7 5875.00	73.95	105.20	-31.25	67.93	6.02	Peak	100	196	8 5925.00	62.59	68.20	-5.61	56.50	6.09	Peak	100	196	9 11550.00	50.39	54.00	-3.61	35.75	14.64	Average	100	196	10 11550.00	63.84	74.00	-10.16	49.20	14.64	Peak	100	196	11 17325.00	59.63	68.20	-8.57	42.20	17.43	Peak	100	163
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																							
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Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)



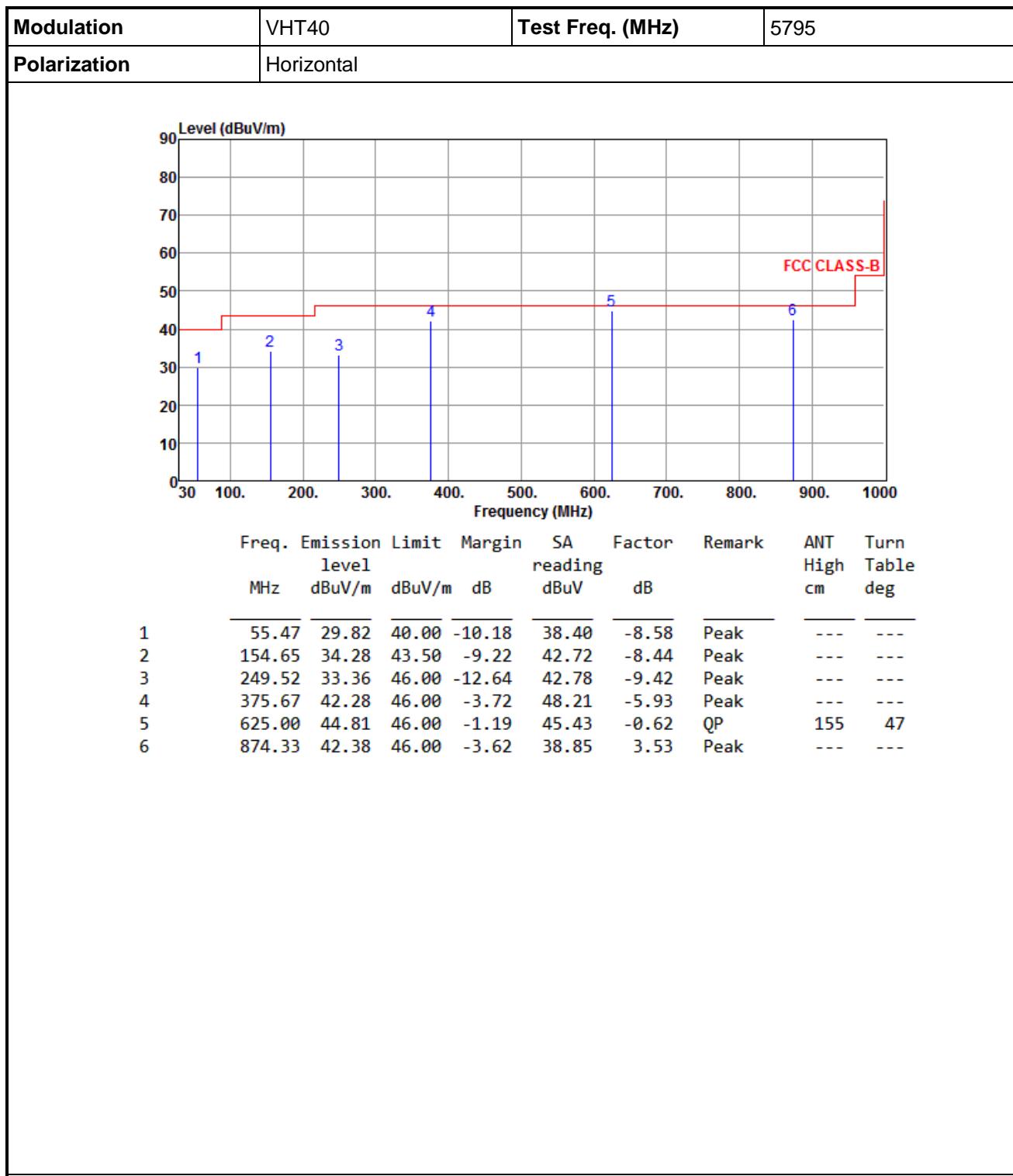


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

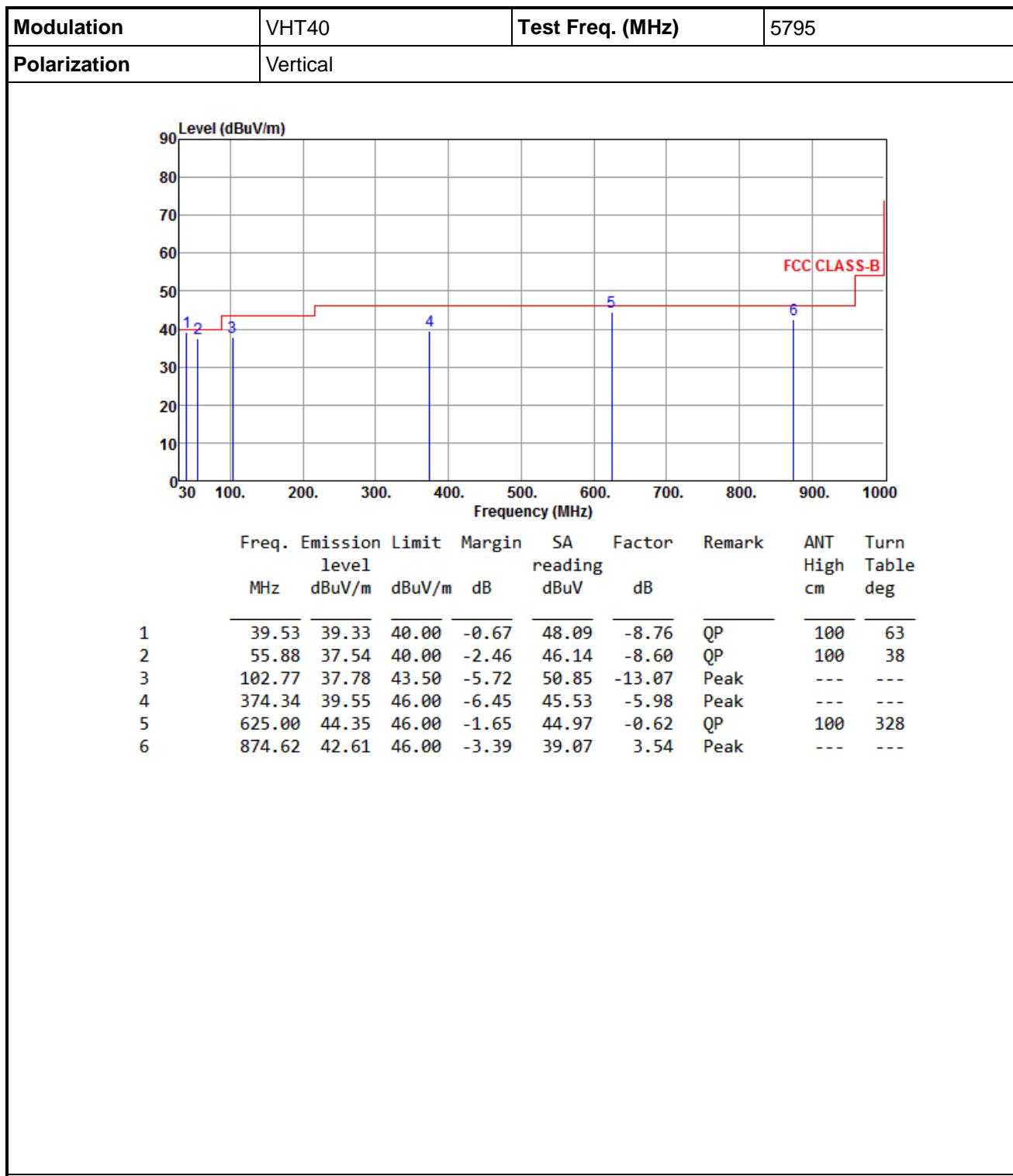


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



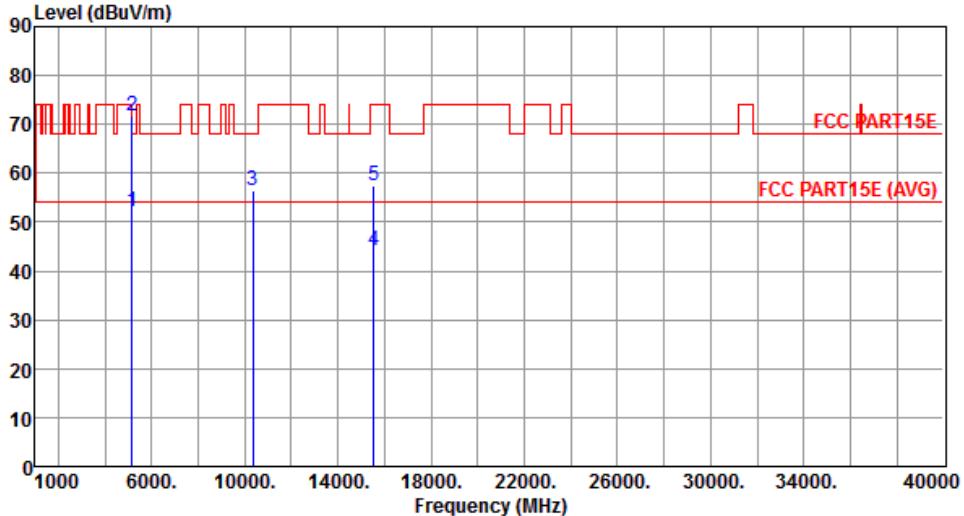
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

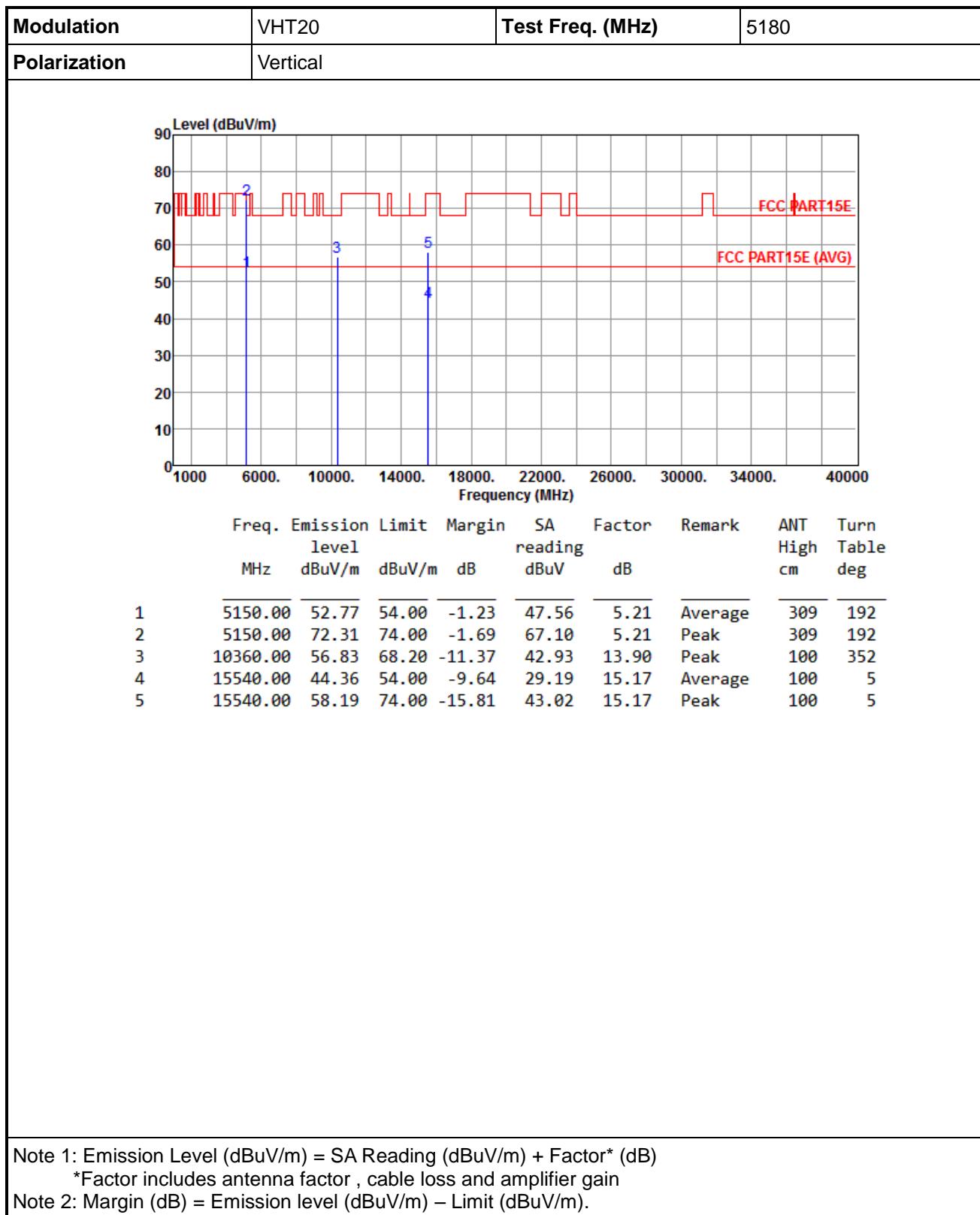
*Factor includes antenna factor , cable loss and amplifier gain

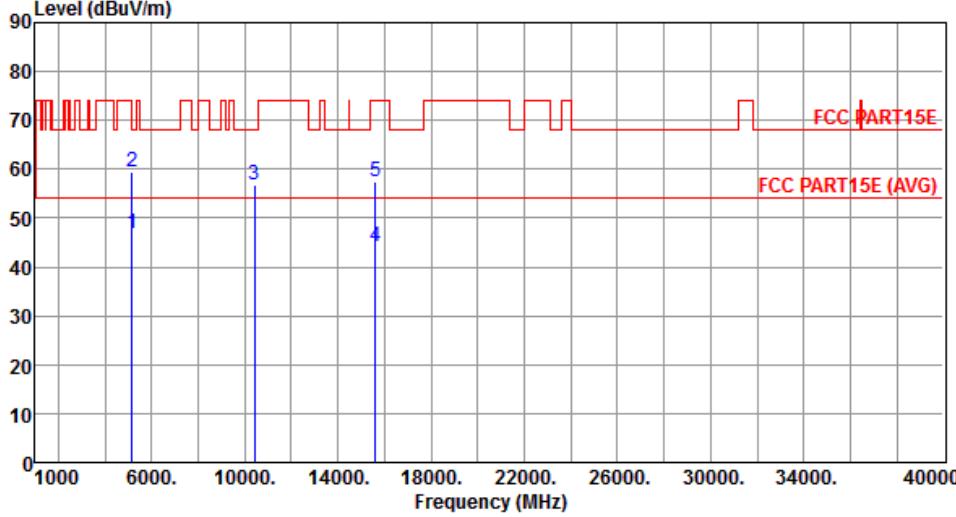
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>52.09</td> <td>54.00</td> <td>-1.91</td> <td>46.88</td> <td>5.21</td> <td>Average</td> <td>100</td> <td>109</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>71.87</td> <td>74.00</td> <td>-2.13</td> <td>66.66</td> <td>5.21</td> <td>Peak</td> <td>100</td> <td>109</td> </tr> <tr> <td>3</td> <td>10360.00</td> <td>56.55</td> <td>68.20</td> <td>-11.65</td> <td>42.65</td> <td>13.90</td> <td>Peak</td> <td>100</td> <td>178</td> </tr> <tr> <td>4</td> <td>15540.00</td> <td>44.19</td> <td>54.00</td> <td>-9.81</td> <td>29.02</td> <td>15.17</td> <td>Average</td> <td>100</td> <td>310</td> </tr> <tr> <td>5</td> <td>15540.00</td> <td>57.42</td> <td>74.00</td> <td>-16.58</td> <td>42.25</td> <td>15.17</td> <td>Peak</td> <td>100</td> <td>310</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	52.09	54.00	-1.91	46.88	5.21	Average	100	109	2	5150.00	71.87	74.00	-2.13	66.66	5.21	Peak	100	109	3	10360.00	56.55	68.20	-11.65	42.65	13.90	Peak	100	178	4	15540.00	44.19	54.00	-9.81	29.02	15.17	Average	100	310	5	15540.00	57.42	74.00	-16.58	42.25	15.17	Peak	100	310
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
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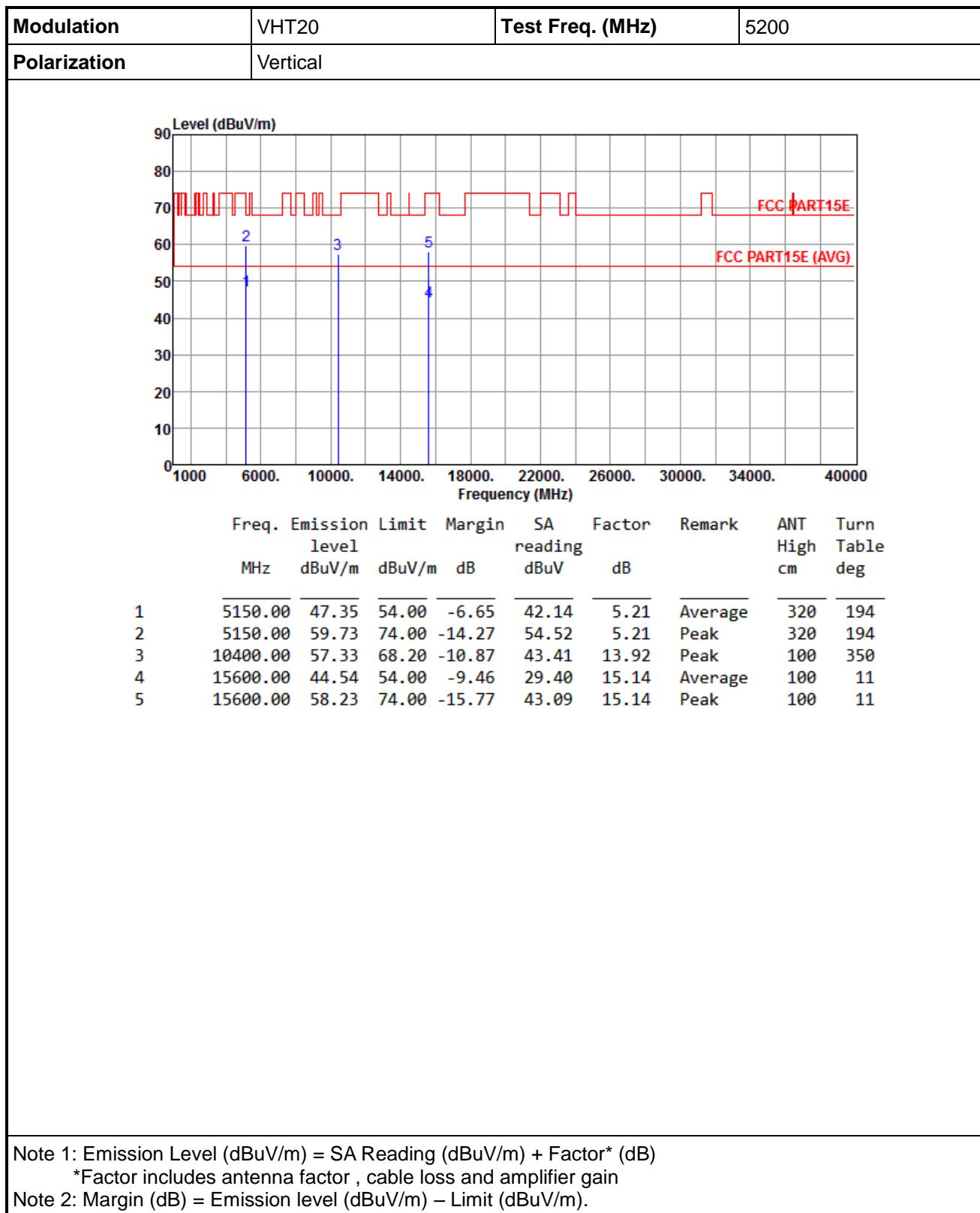


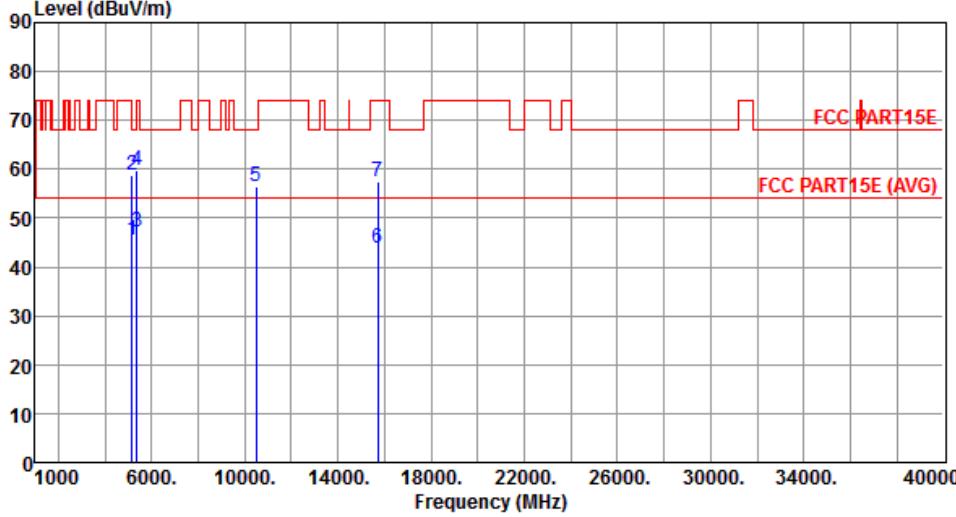
Modulation	VHT20	Test Freq. (MHz)	5200																																																											
Polarization	Horizontal																																																													
																																																														
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

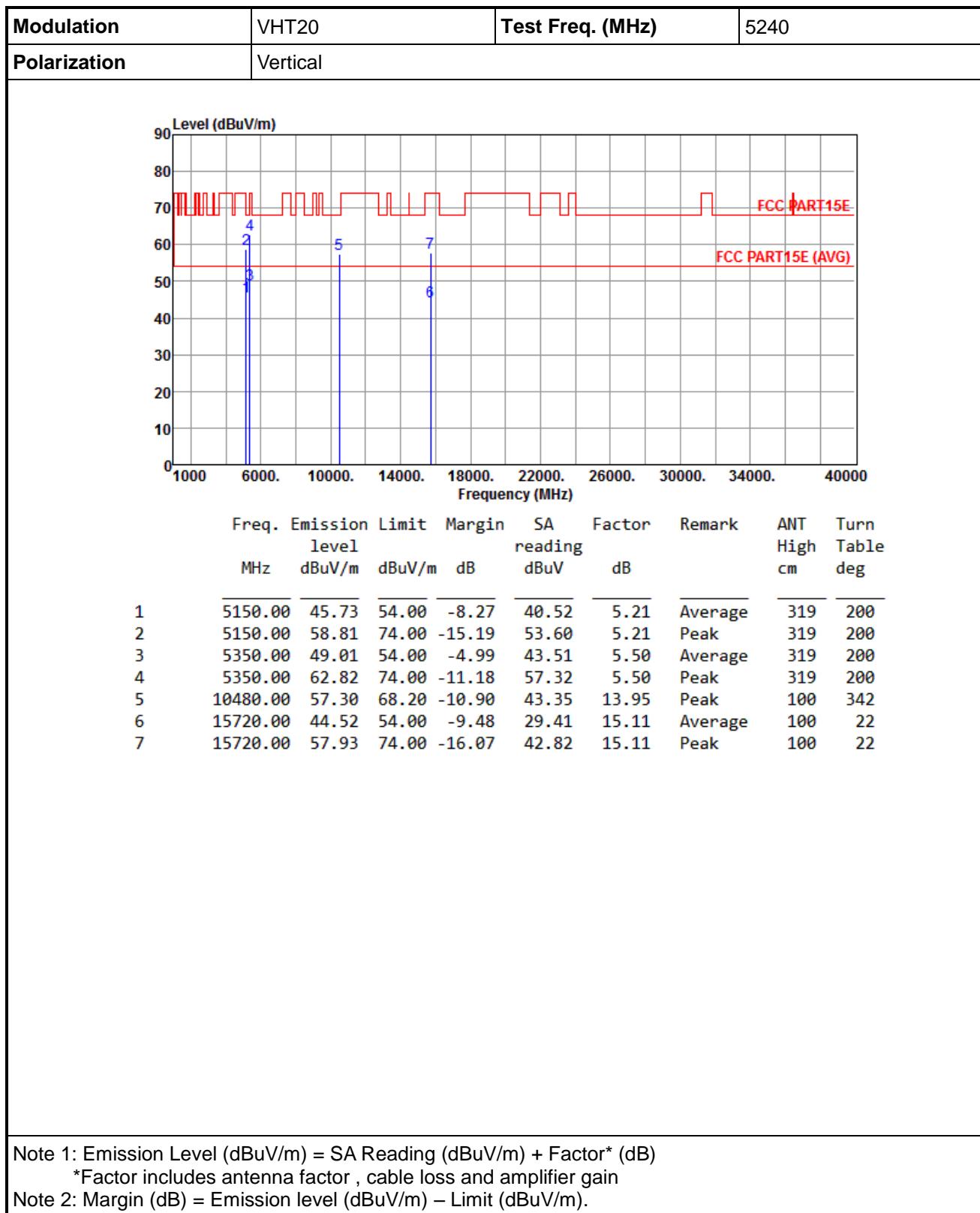


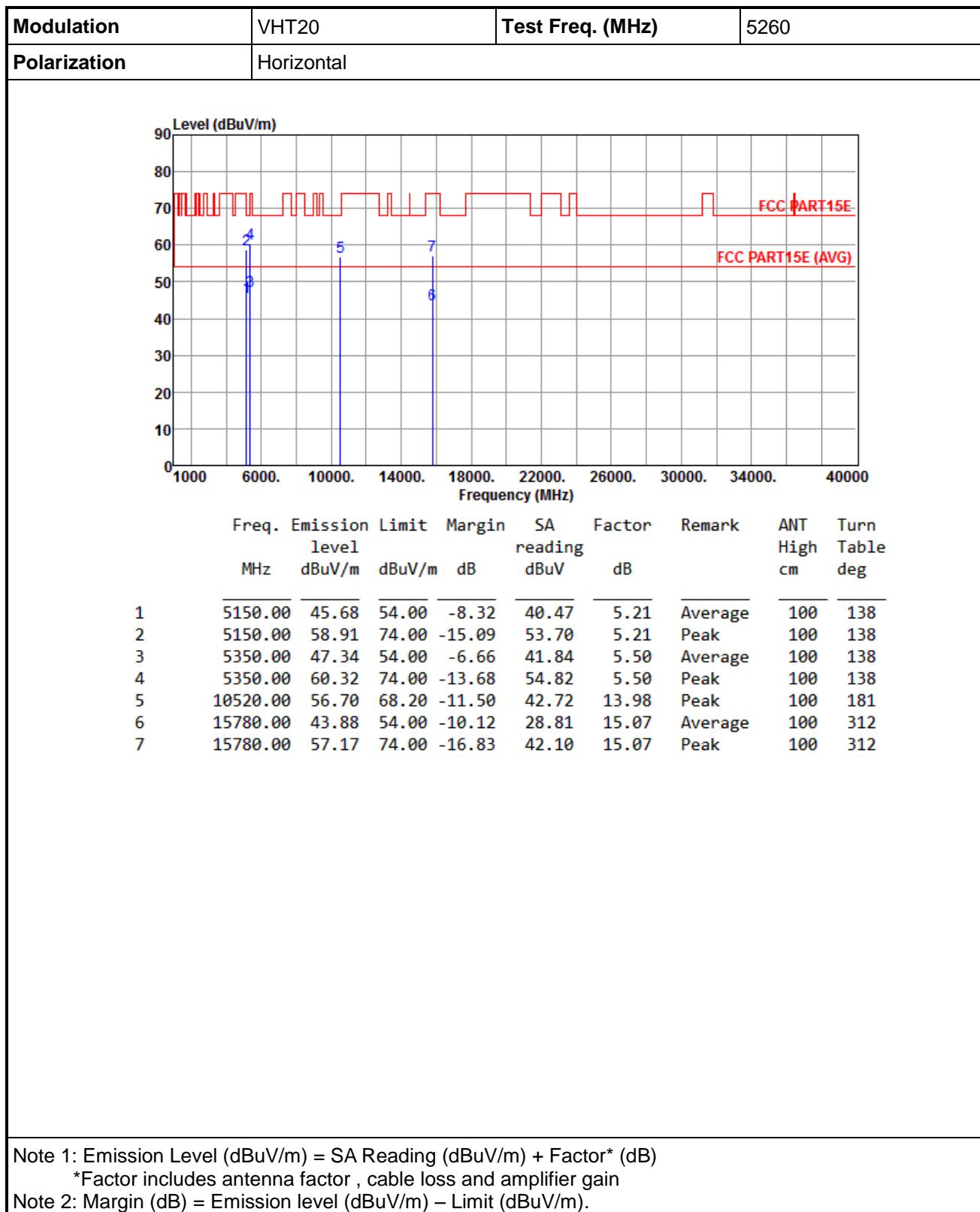
Modulation	VHT20	Test Freq. (MHz)	5240																																																																															
Polarization	Horizontal																																																																																	
																																																																																		
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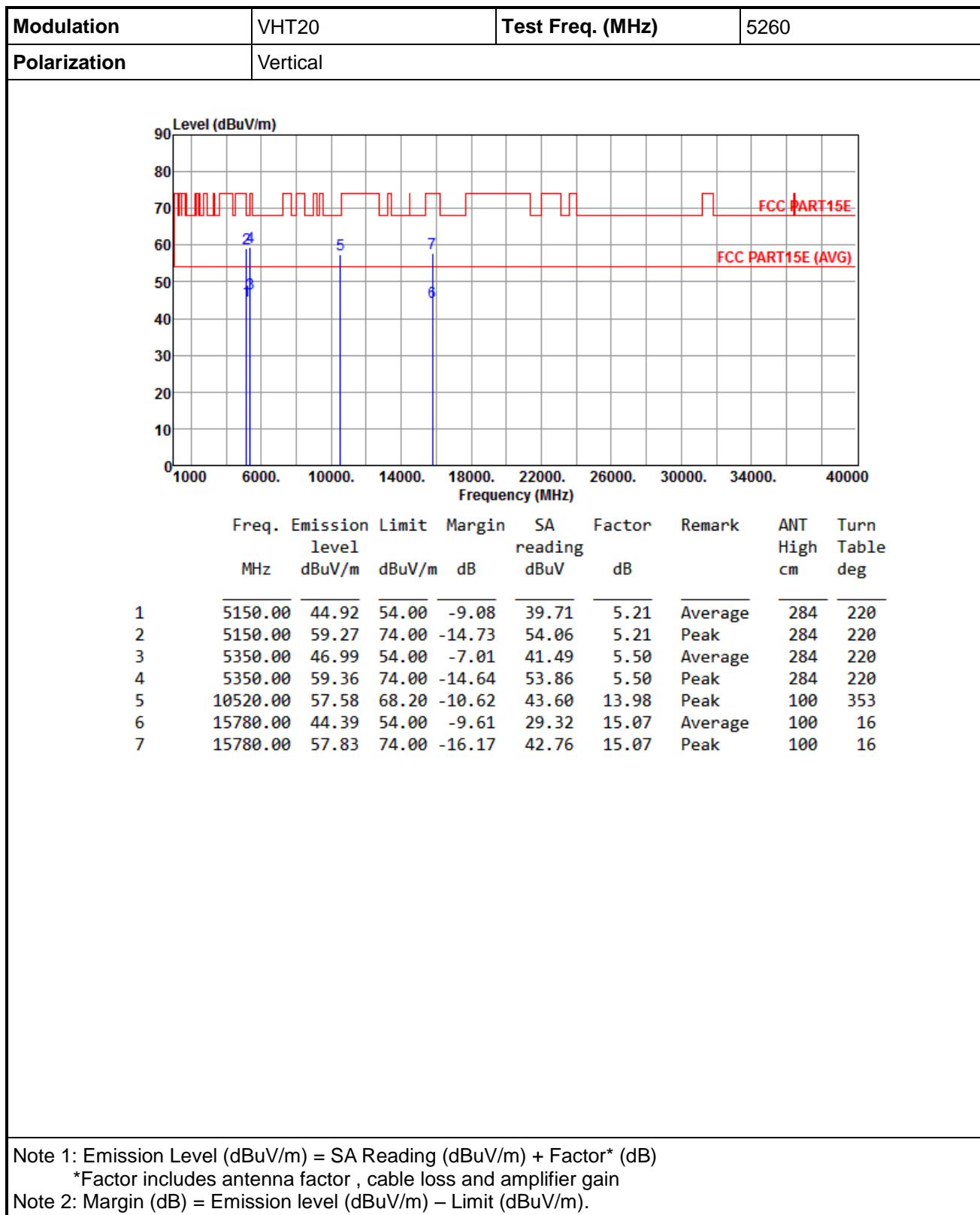
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

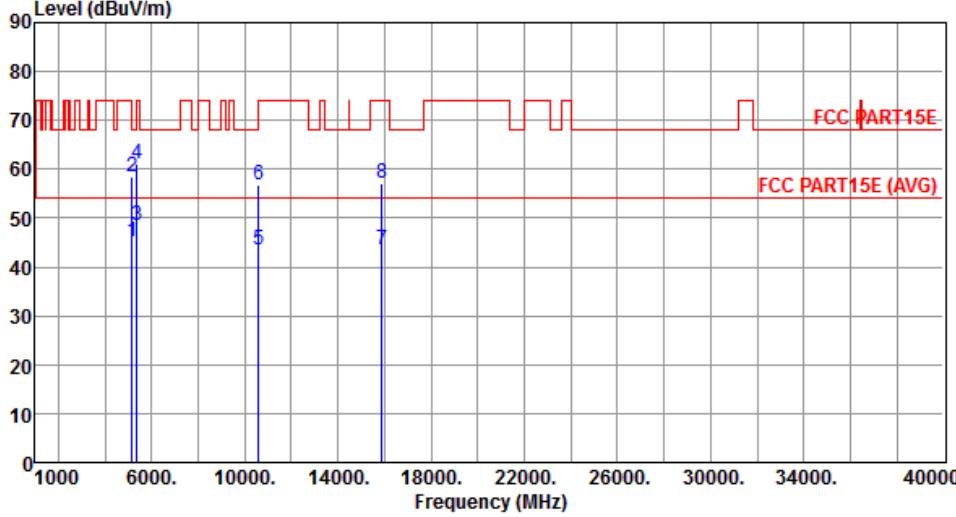
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





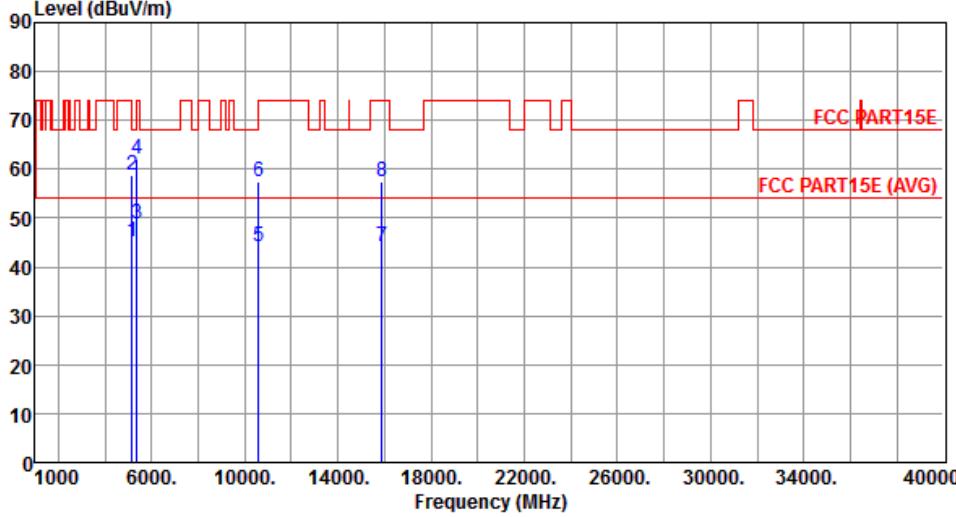


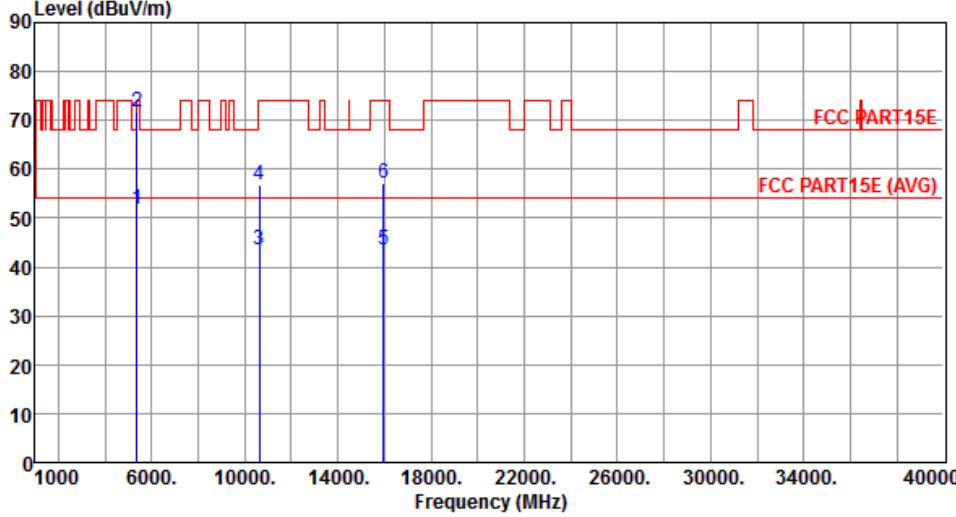
Modulation	VHT20	Test Freq. (MHz)	5300																																																																																									
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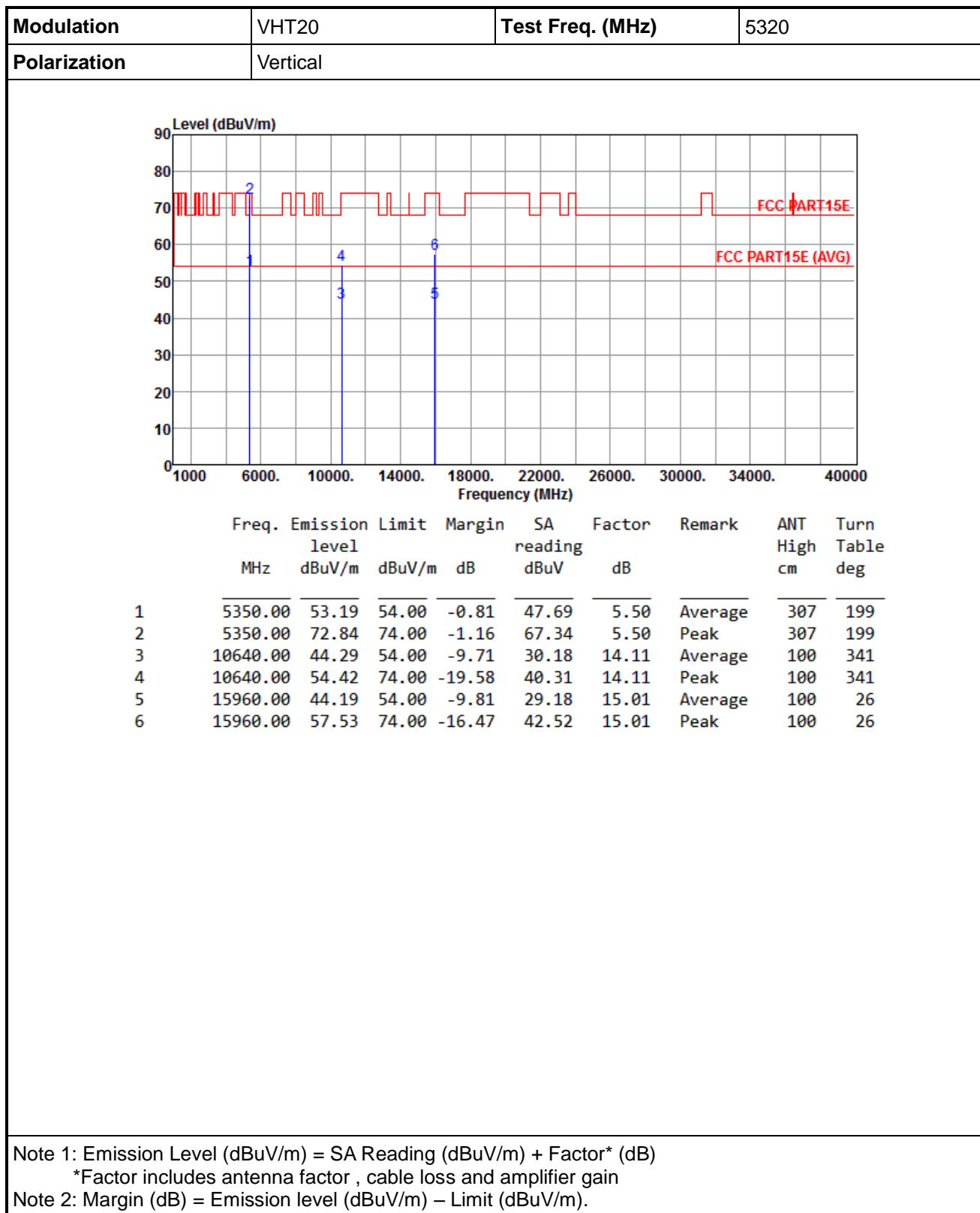
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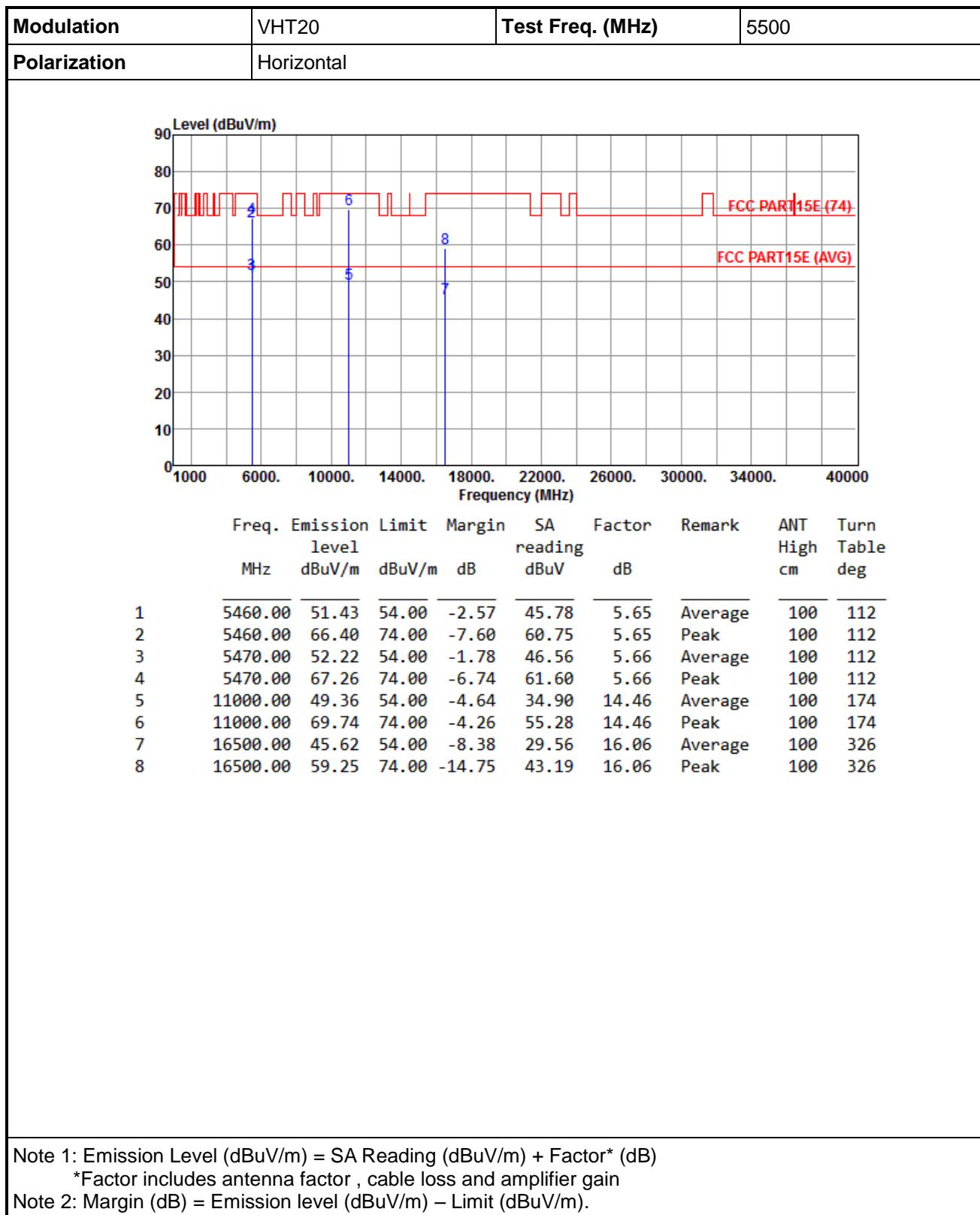
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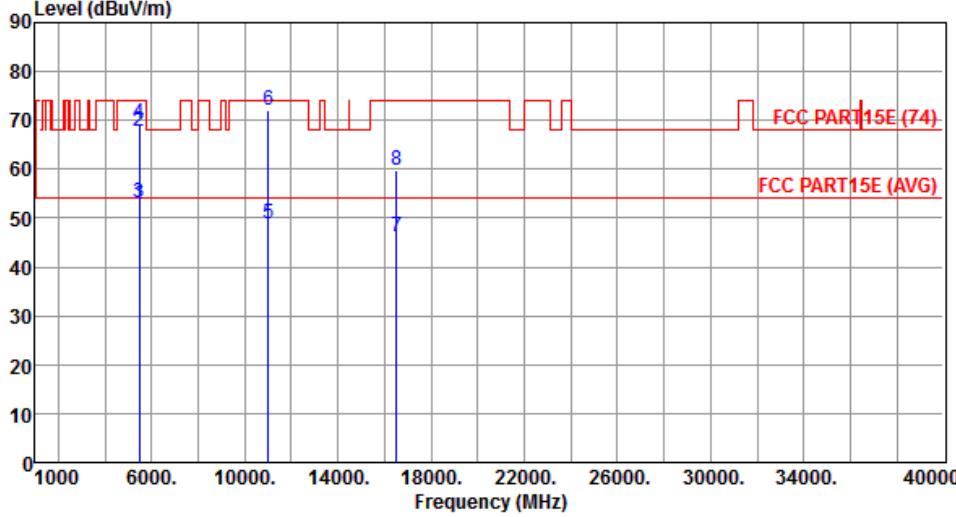
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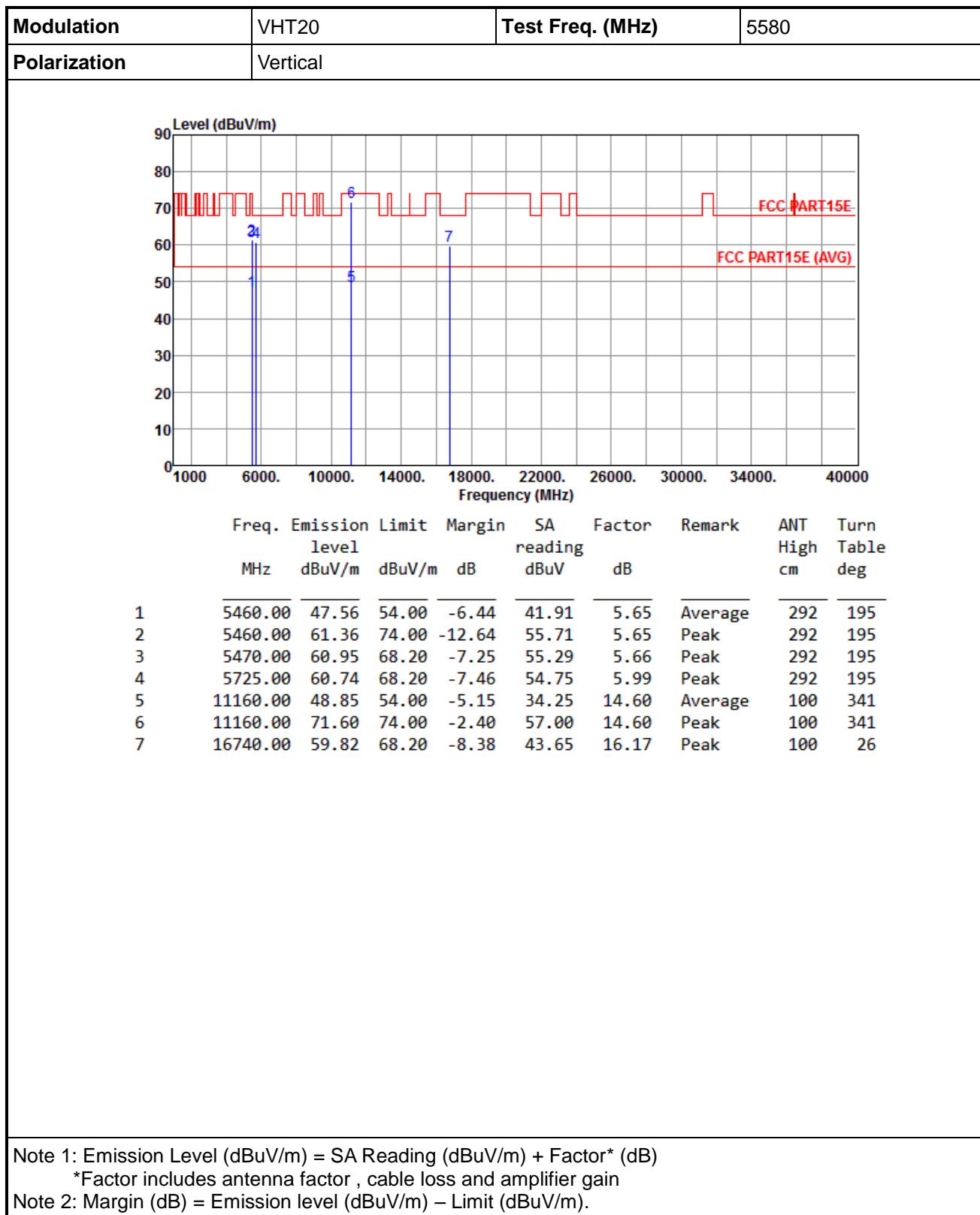
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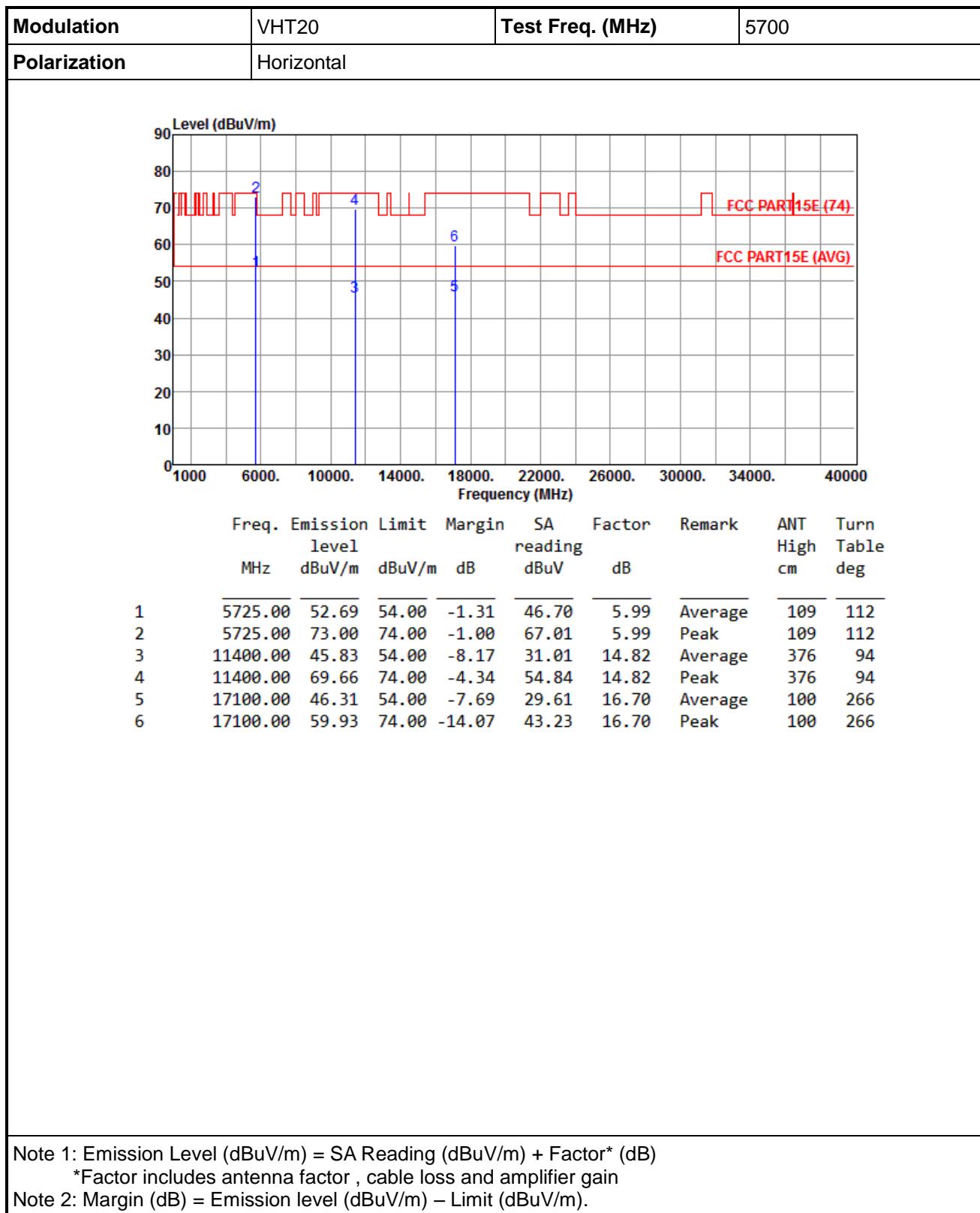
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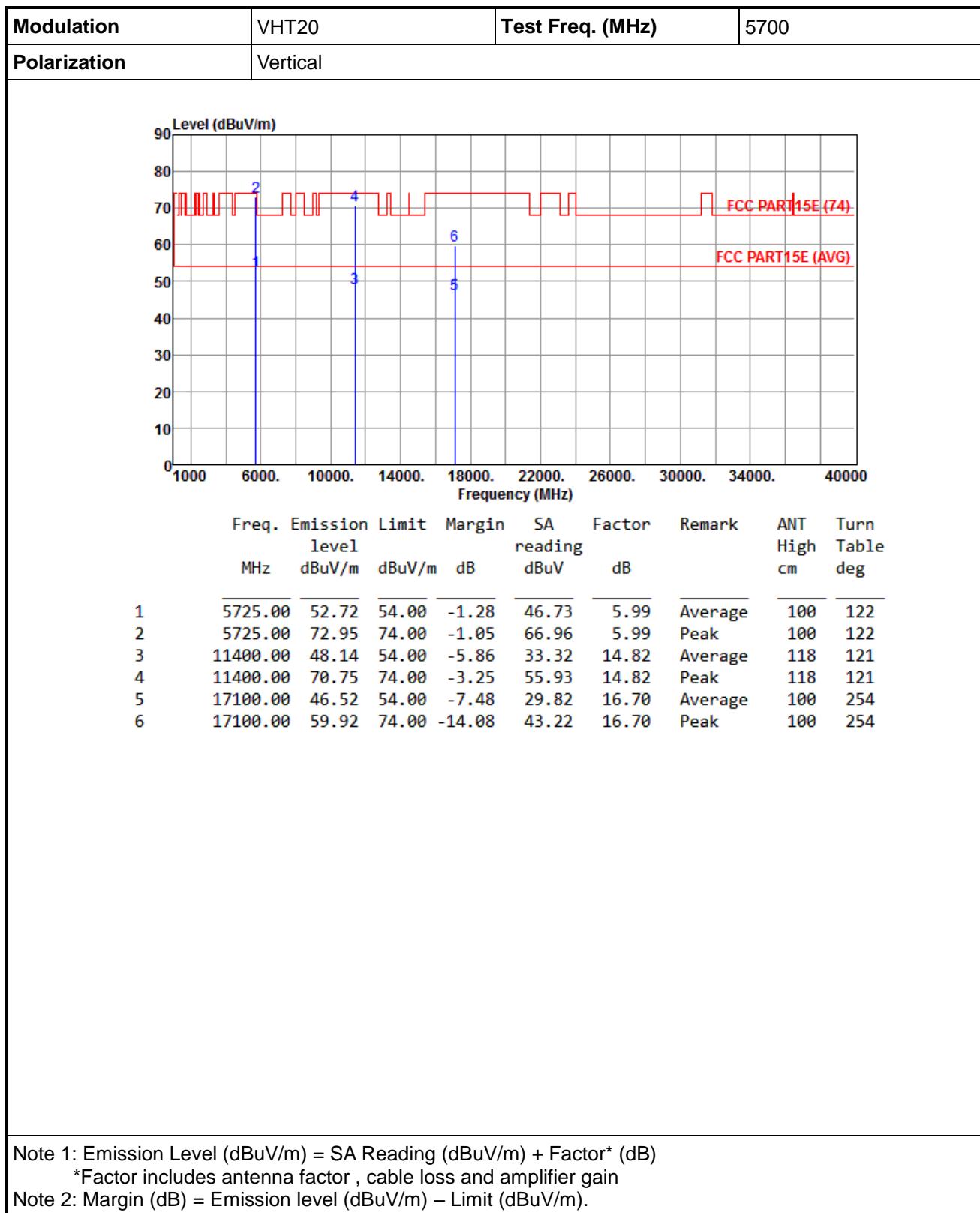
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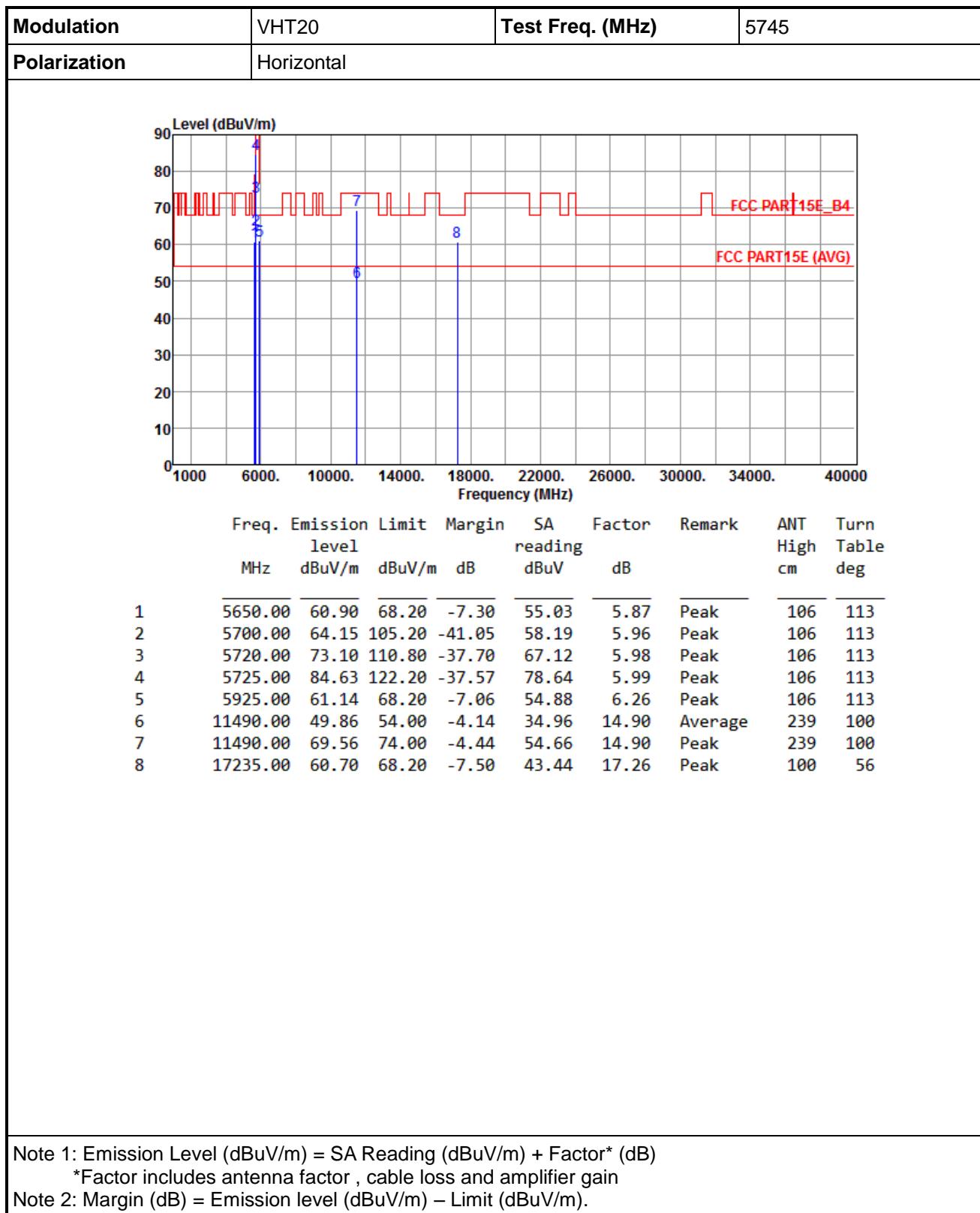
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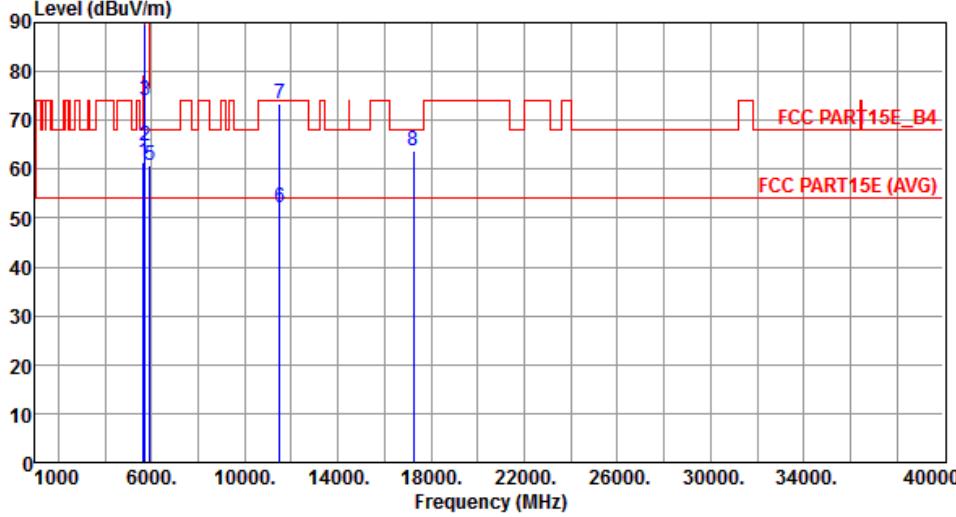
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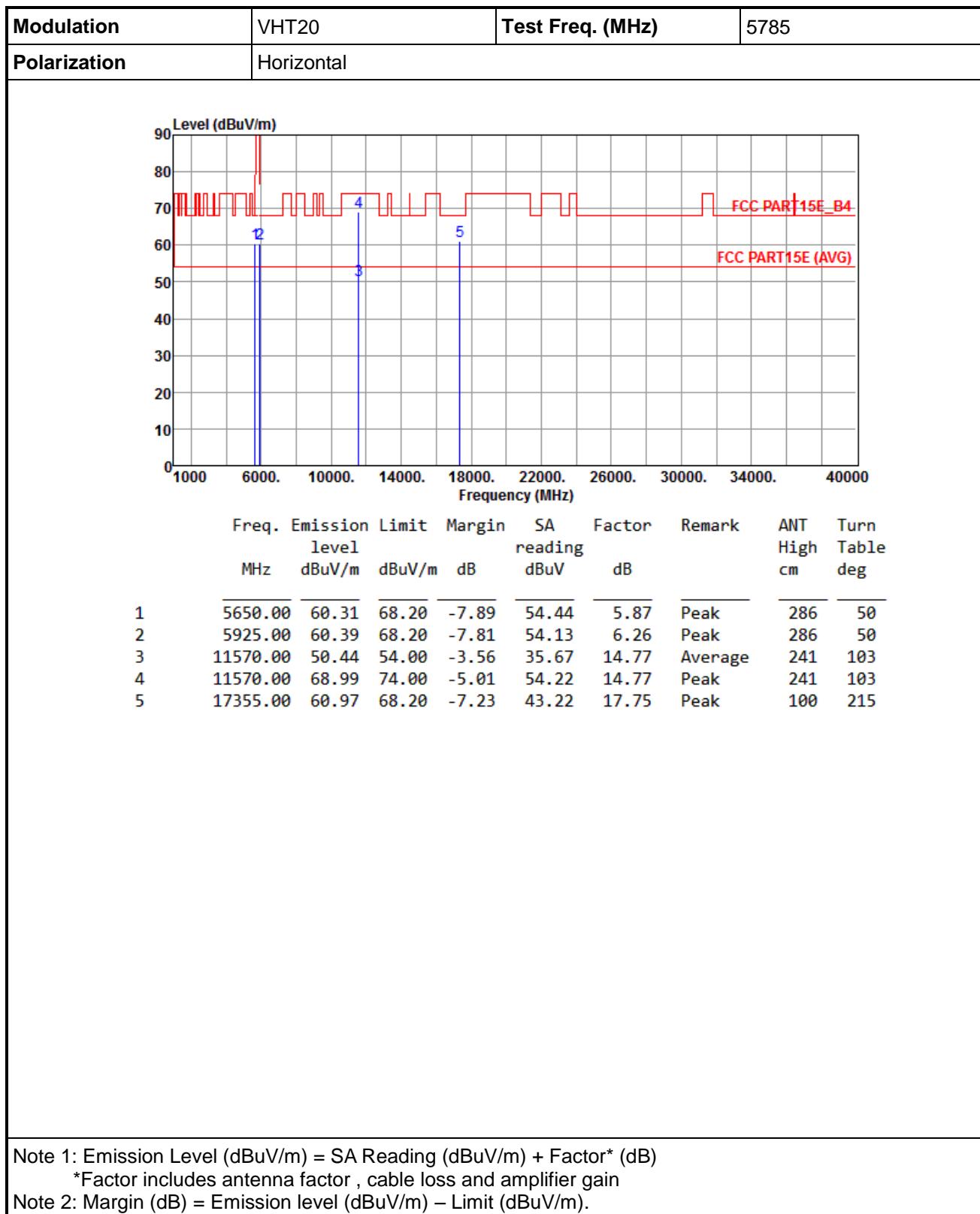


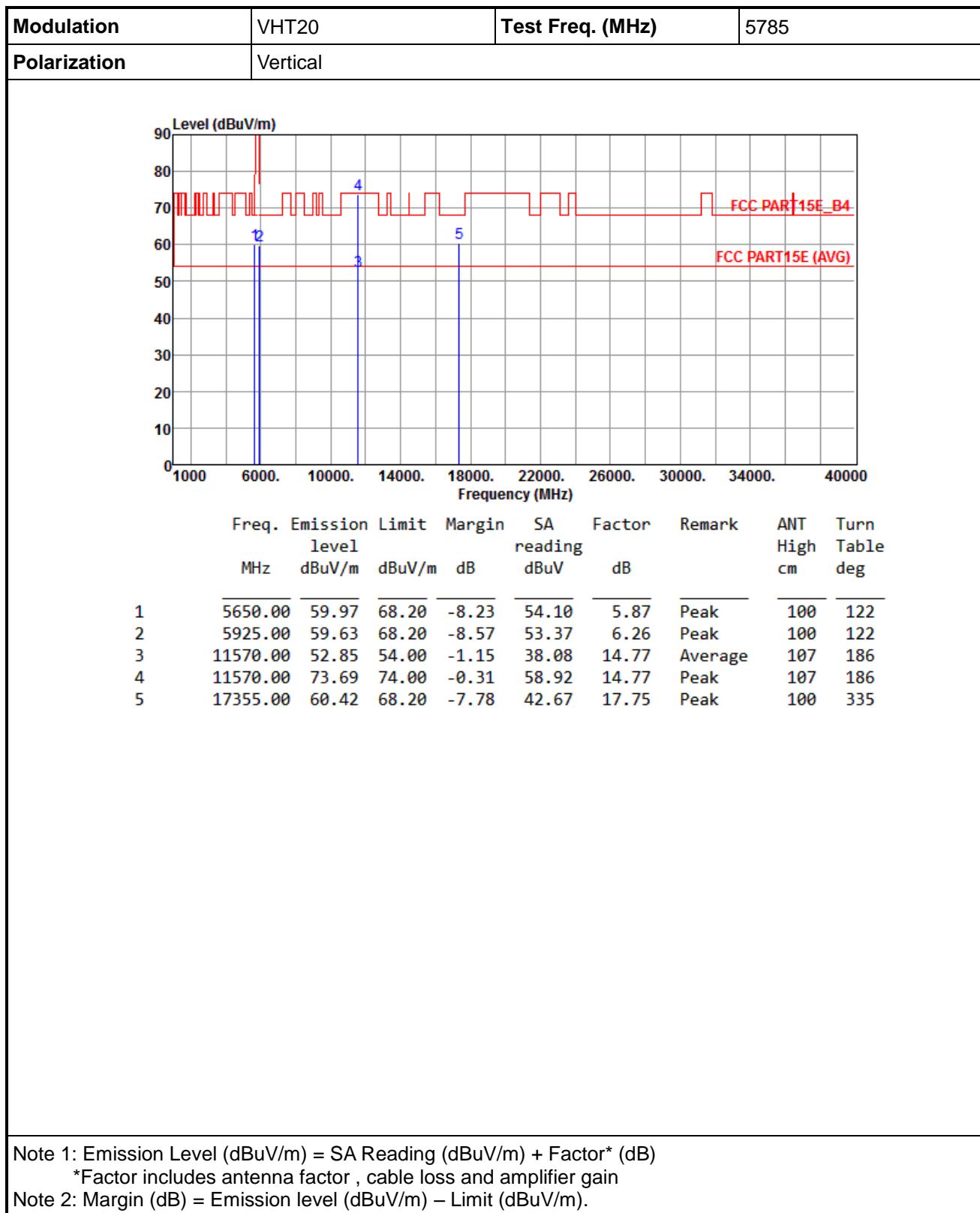
Modulation	VHT20	Test Freq. (MHz)	5745																																																																																	
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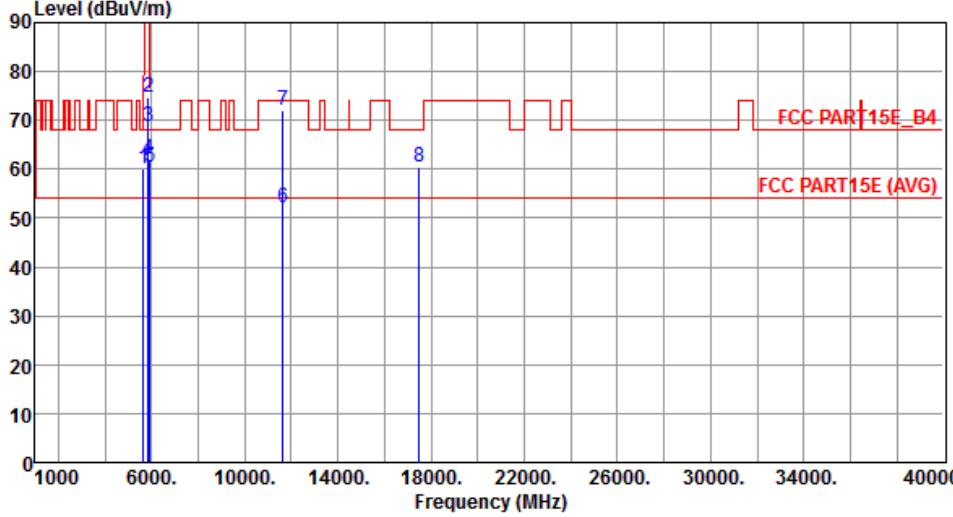
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*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



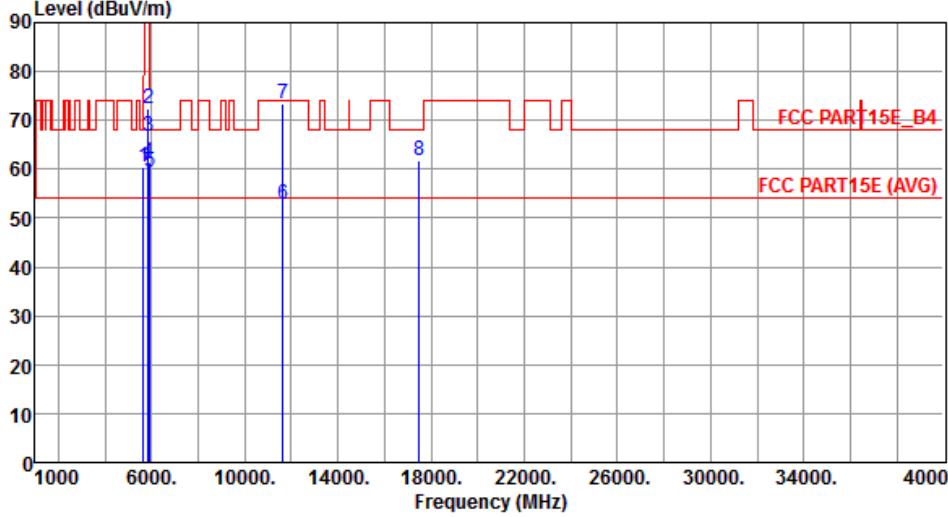


Modulation	VHT20	Test Freq. (MHz)	5825																																																																																	
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

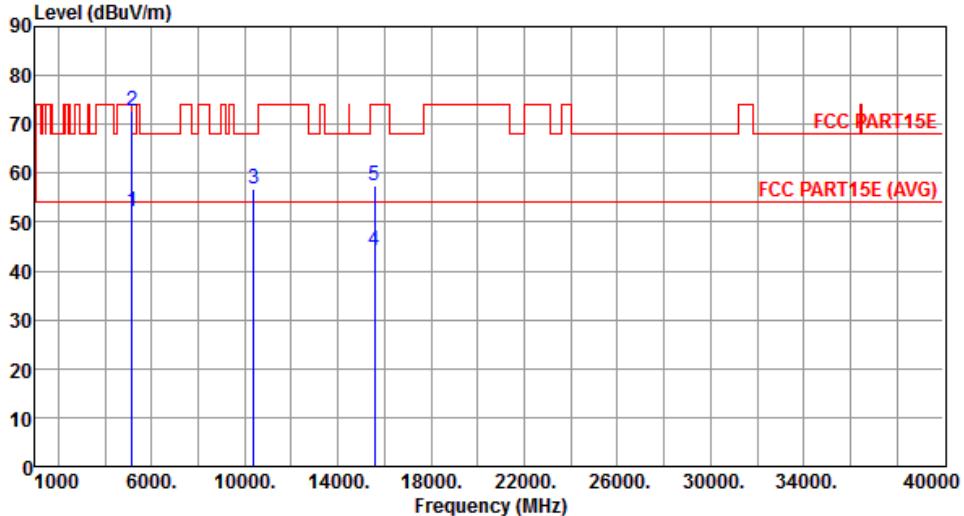
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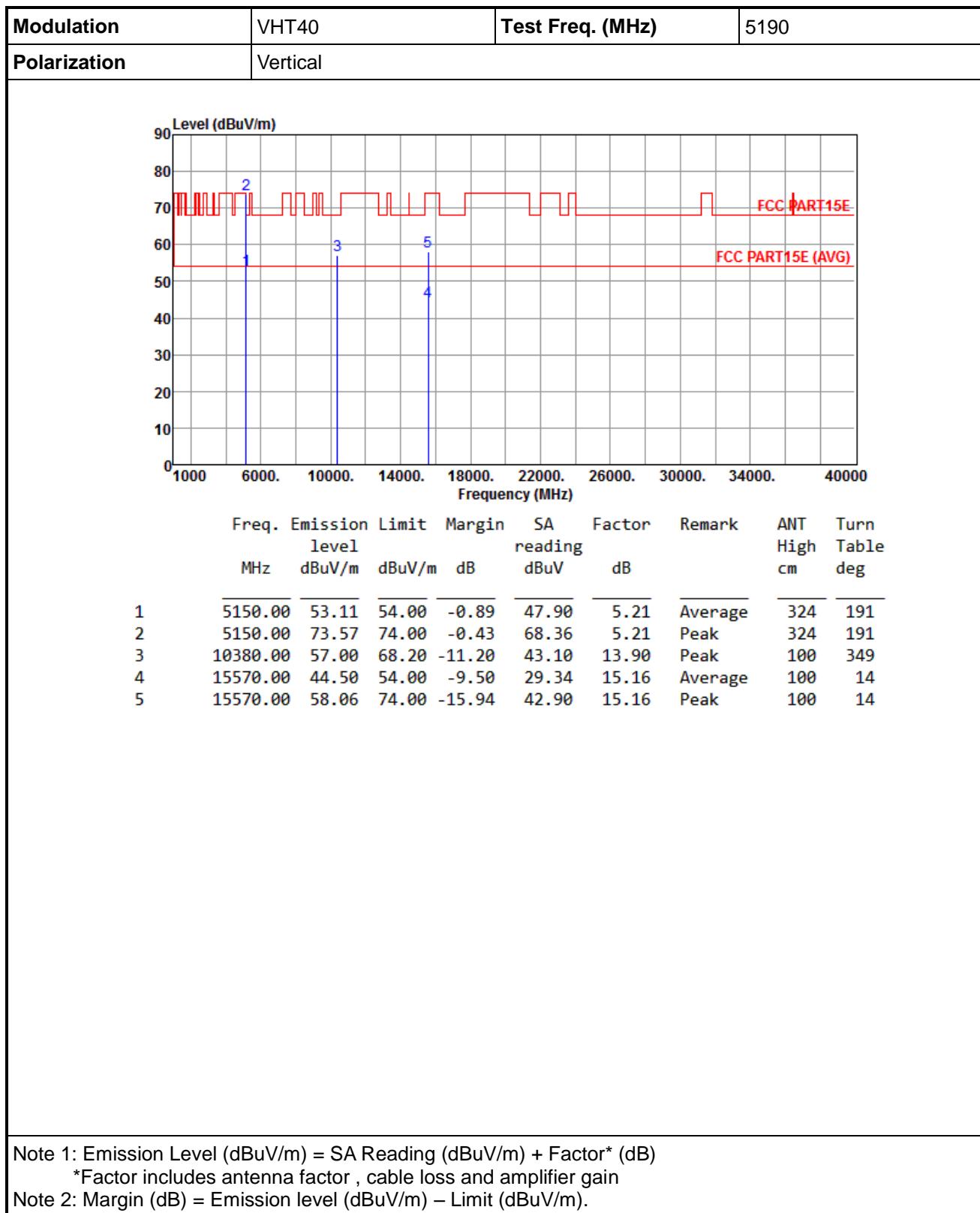
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

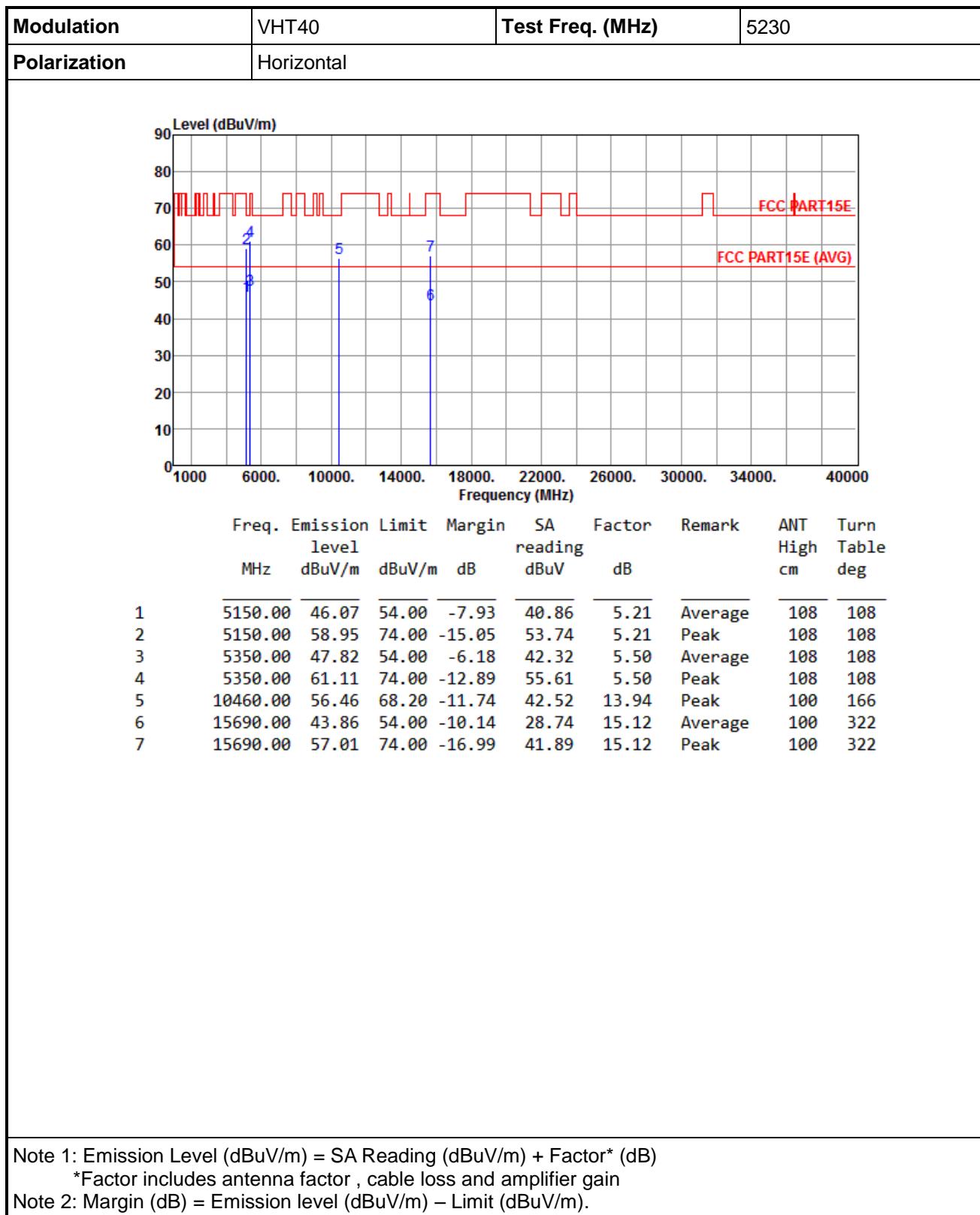
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190																																																						
Polarization	Horizontal																																																								
																																																									
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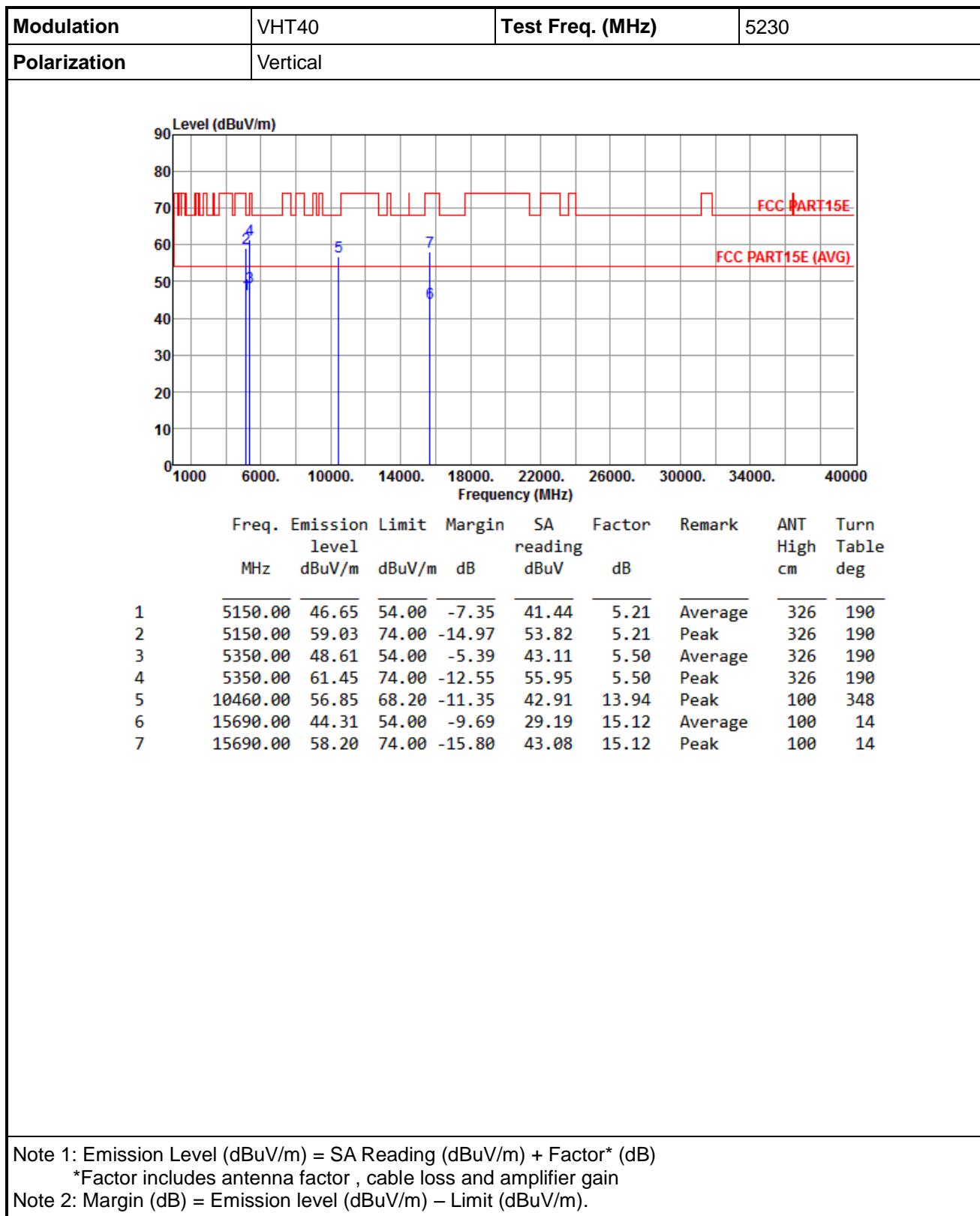




Note 1: Emission Level (dB_{UV}/m) = SA Reading (dB_{UV}/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

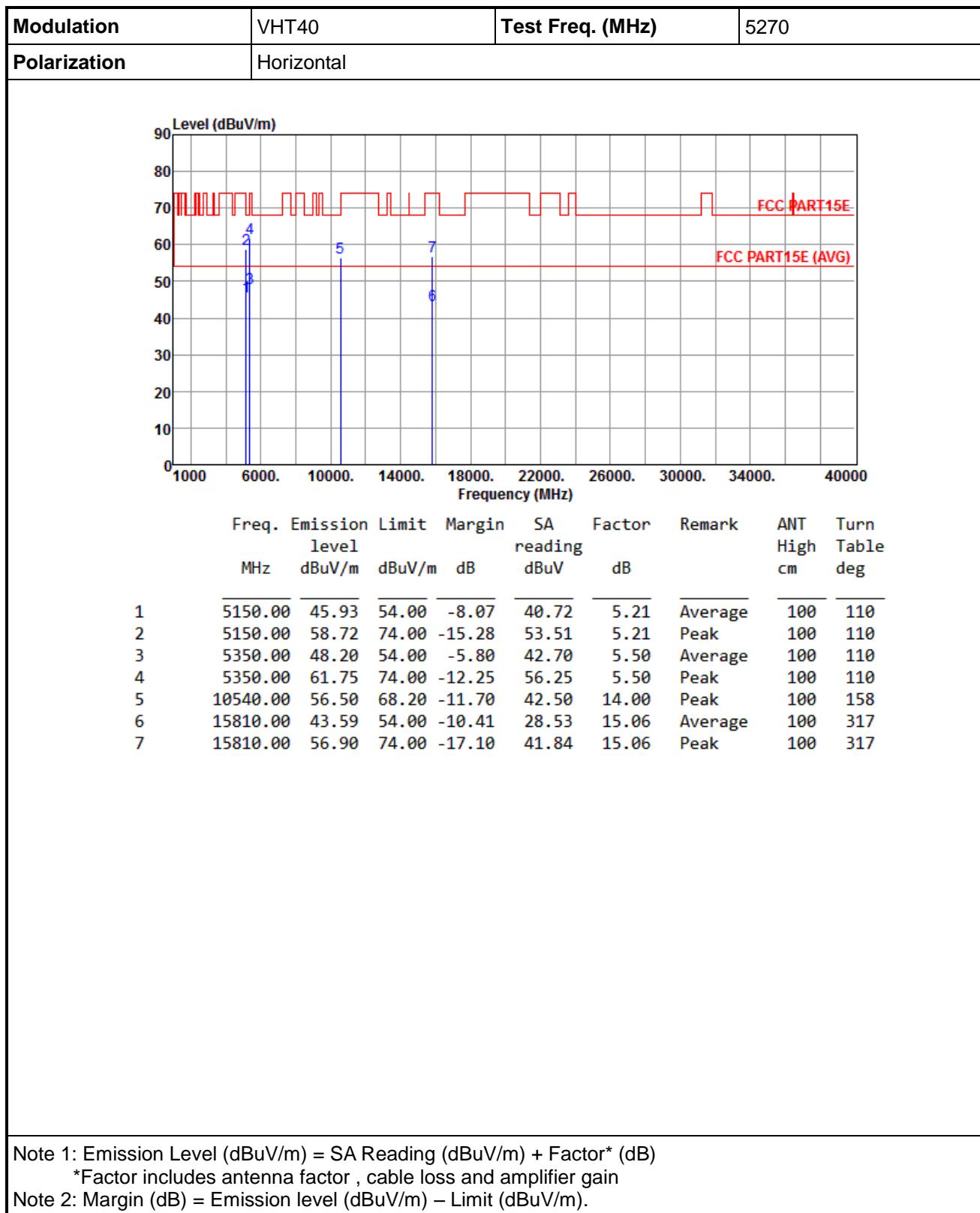
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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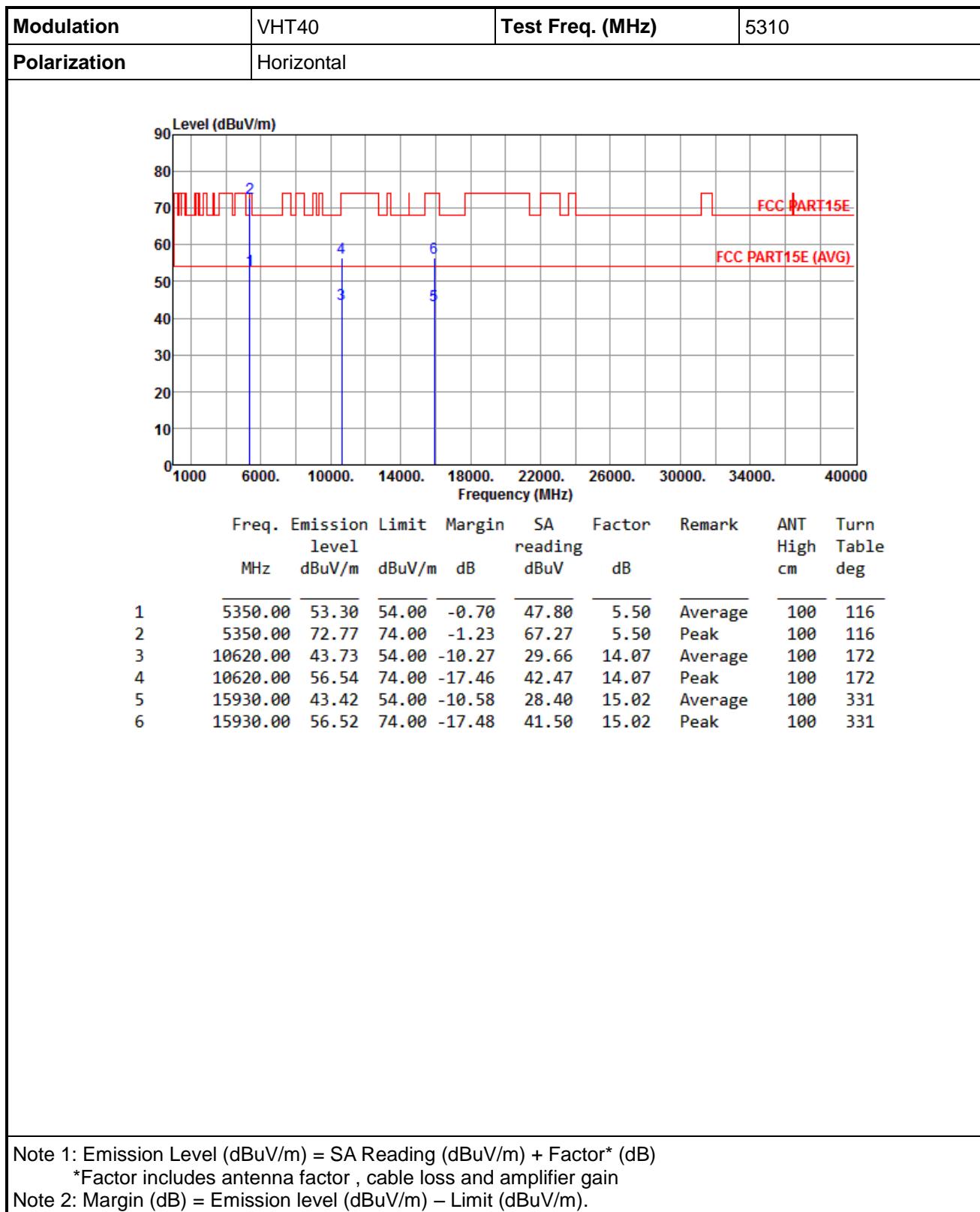


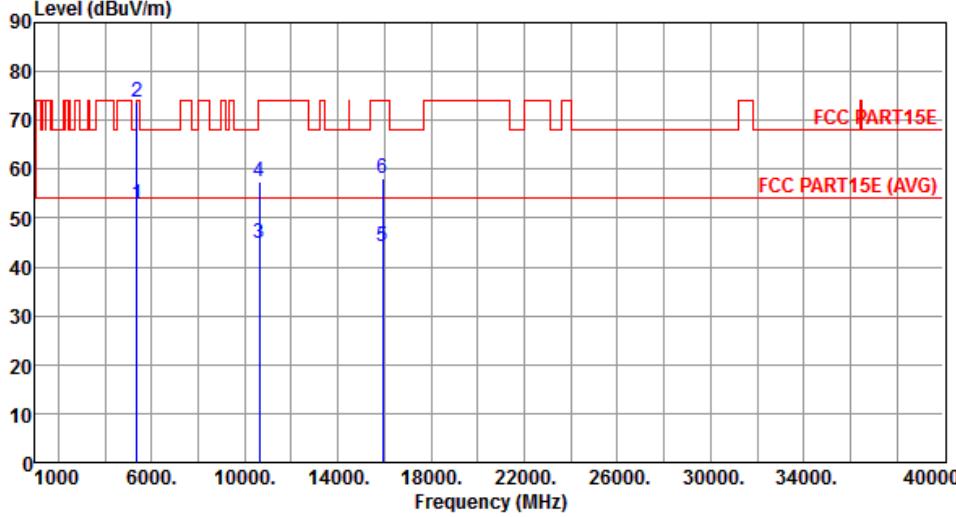
Modulation	VHT40	Test Freq. (MHz)	5270																																																
Polarization	Vertical																																																		
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

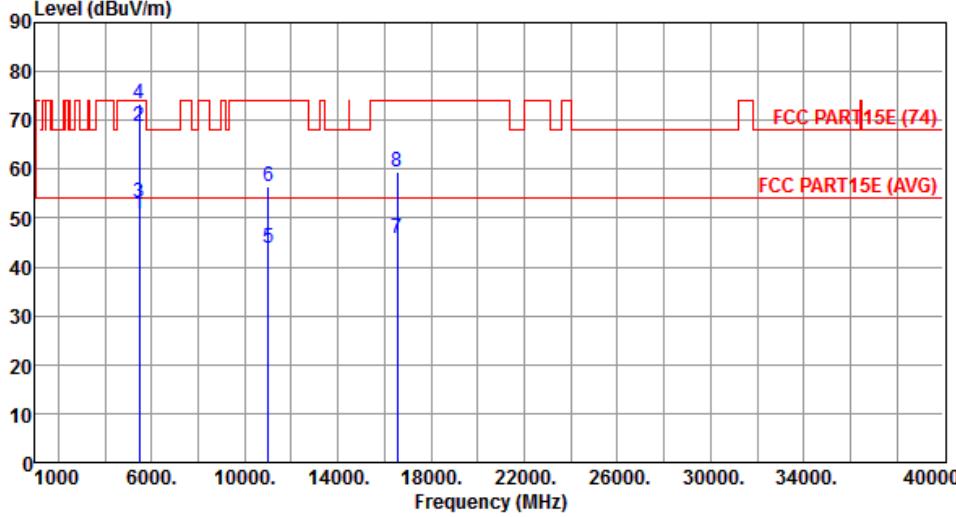


Modulation	VHT40	Test Freq. (MHz)	5310						
Polarization	Vertical								
									
Freq. Emission Limit Margin SA Factor Remark ANT Turn level level reading reading High Table MHz dBuV/m dBuV/m dB dB									
1	5350.00	52.96	54.00	-1.04	47.46	5.50	Average	327	196
2	5350.00	73.70	74.00	-0.30	68.20	5.50	Peak	327	196
3	10620.00	44.88	54.00	-9.12	30.81	14.07	Average	100	336
4	10620.00	57.41	74.00	-16.59	43.34	14.07	Peak	100	336
5	15930.00	44.06	54.00	-9.94	29.04	15.02	Average	100	11
6	15930.00	58.05	74.00	-15.95	43.03	15.02	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

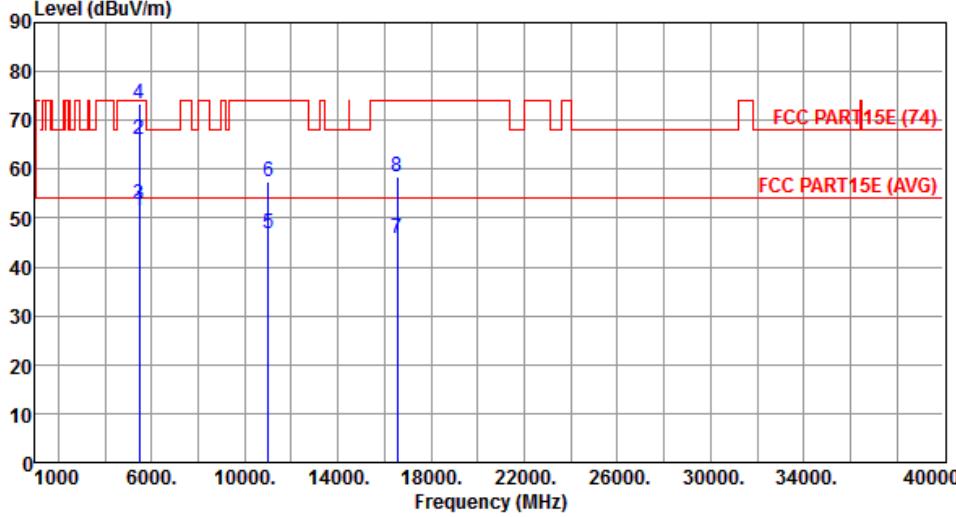
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																									
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

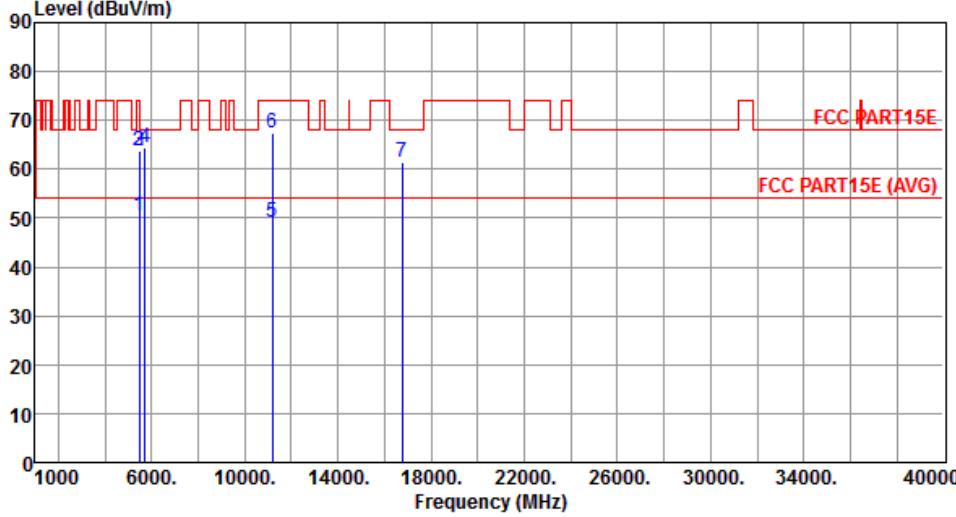
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

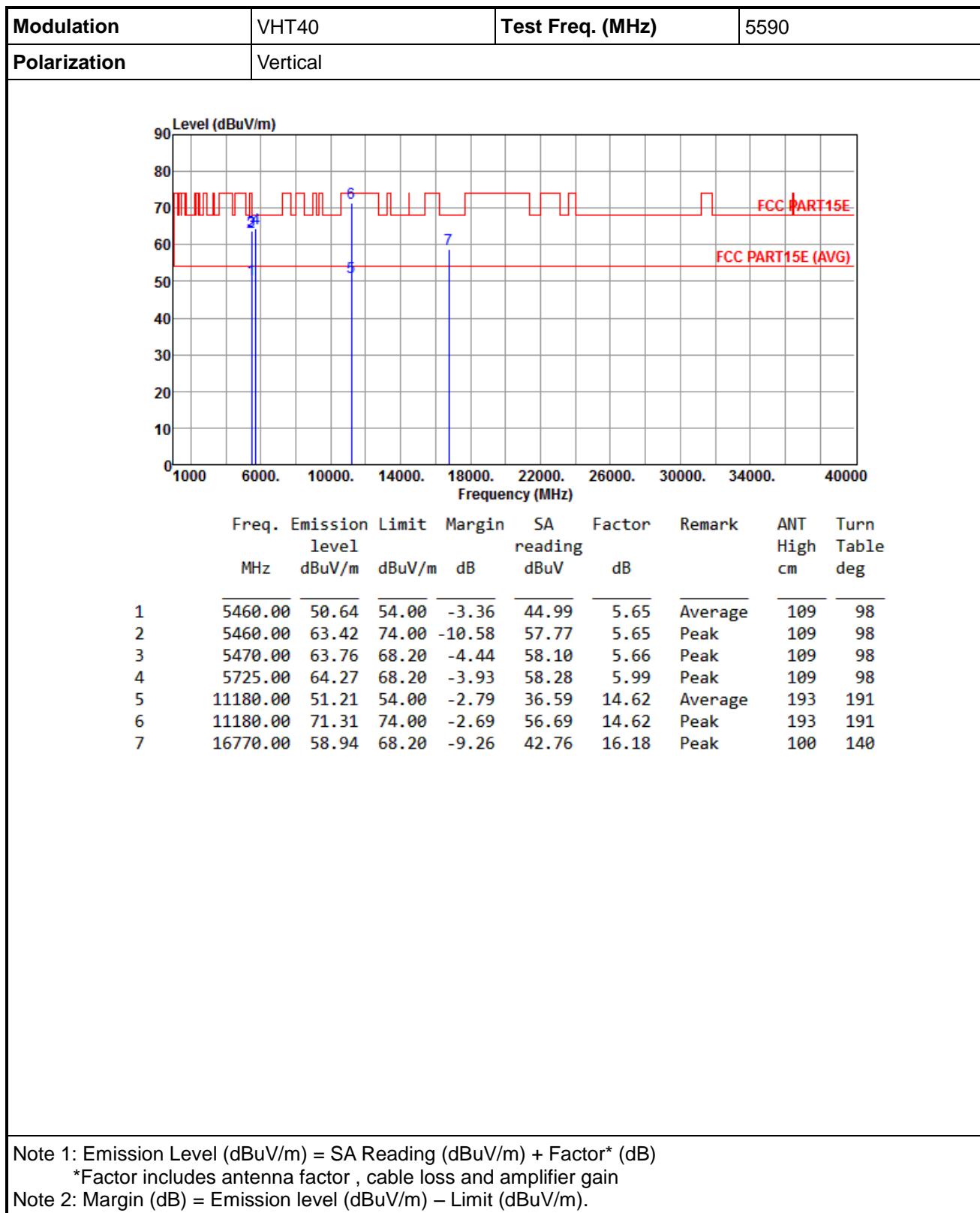
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5590																																																																															
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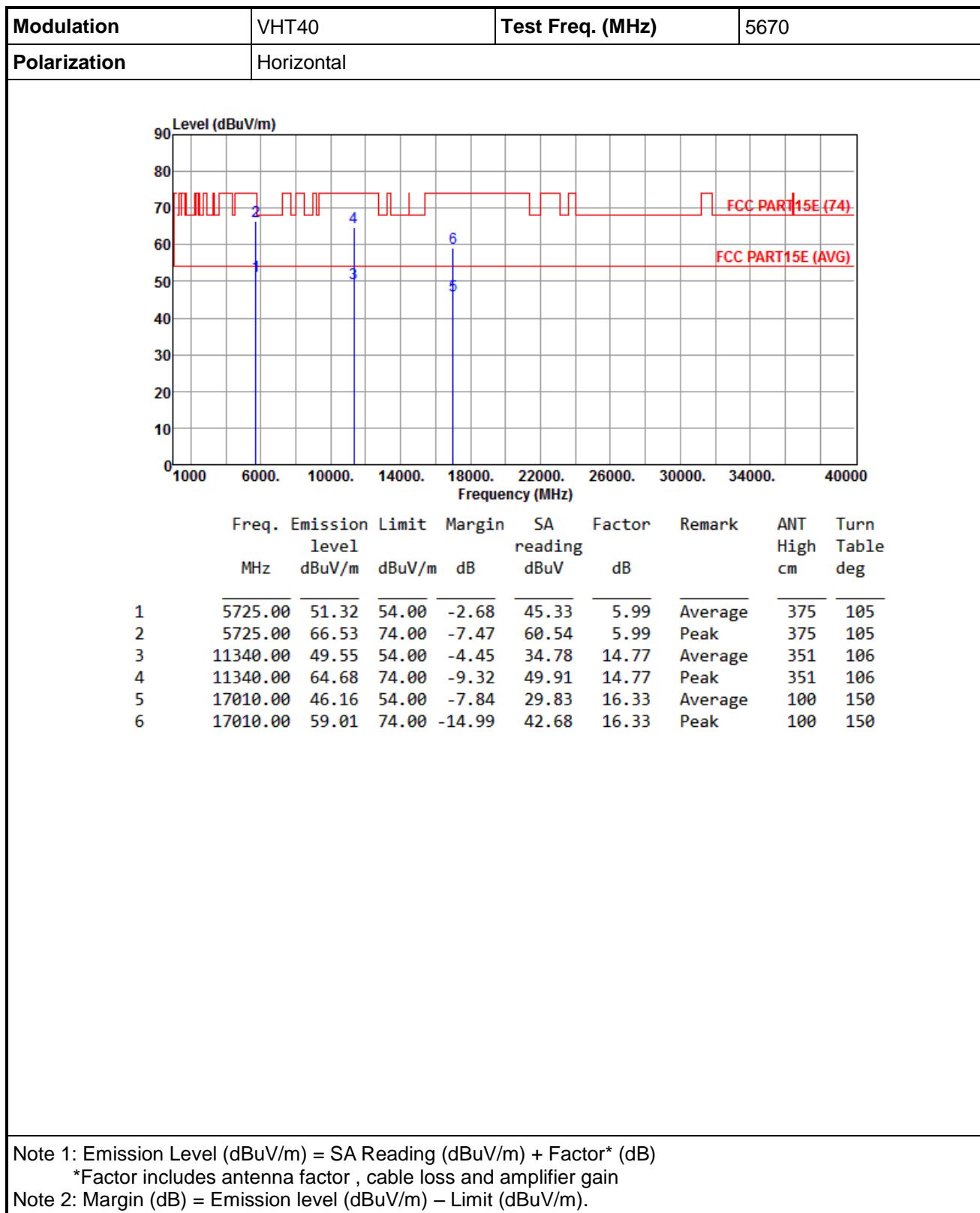
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

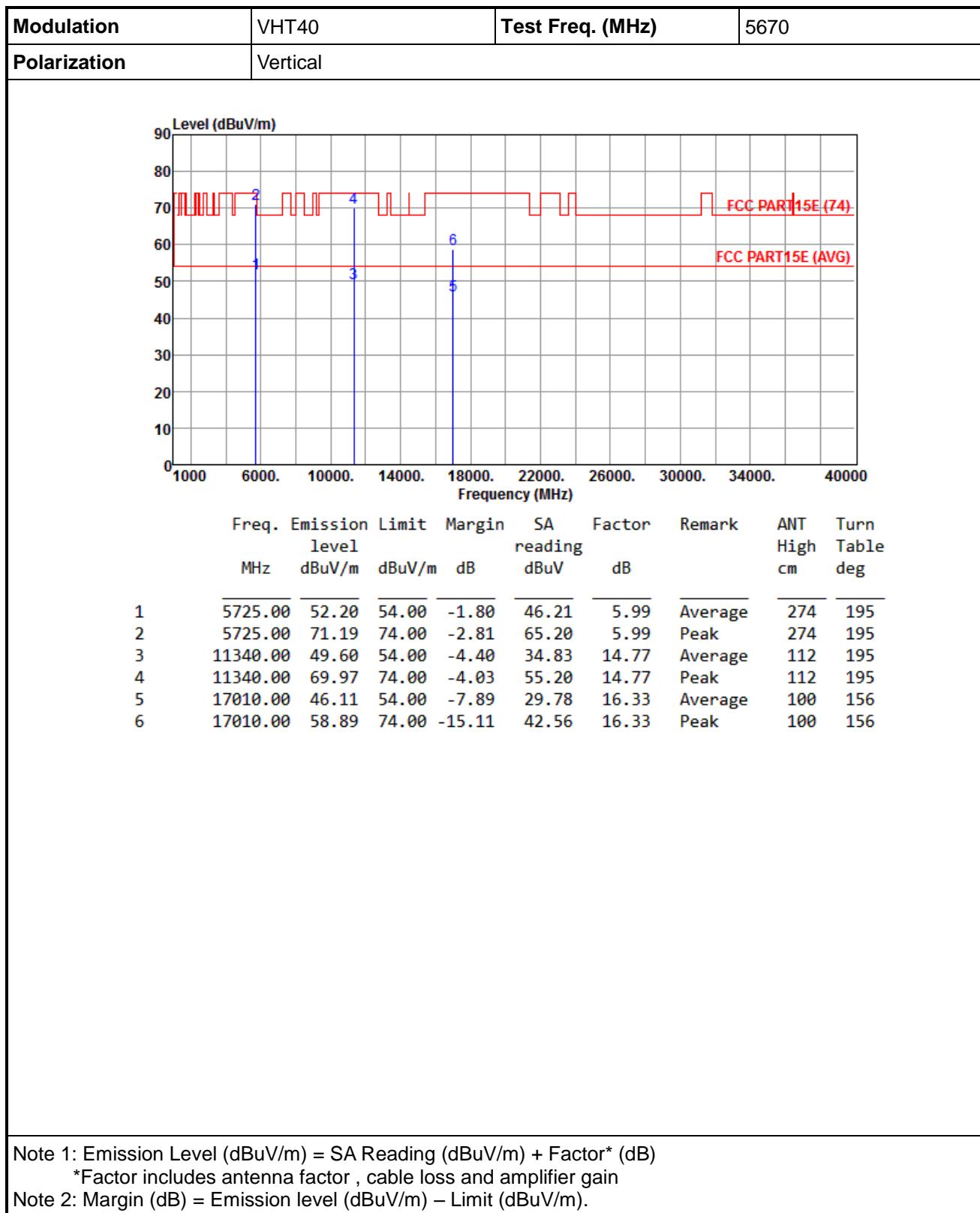


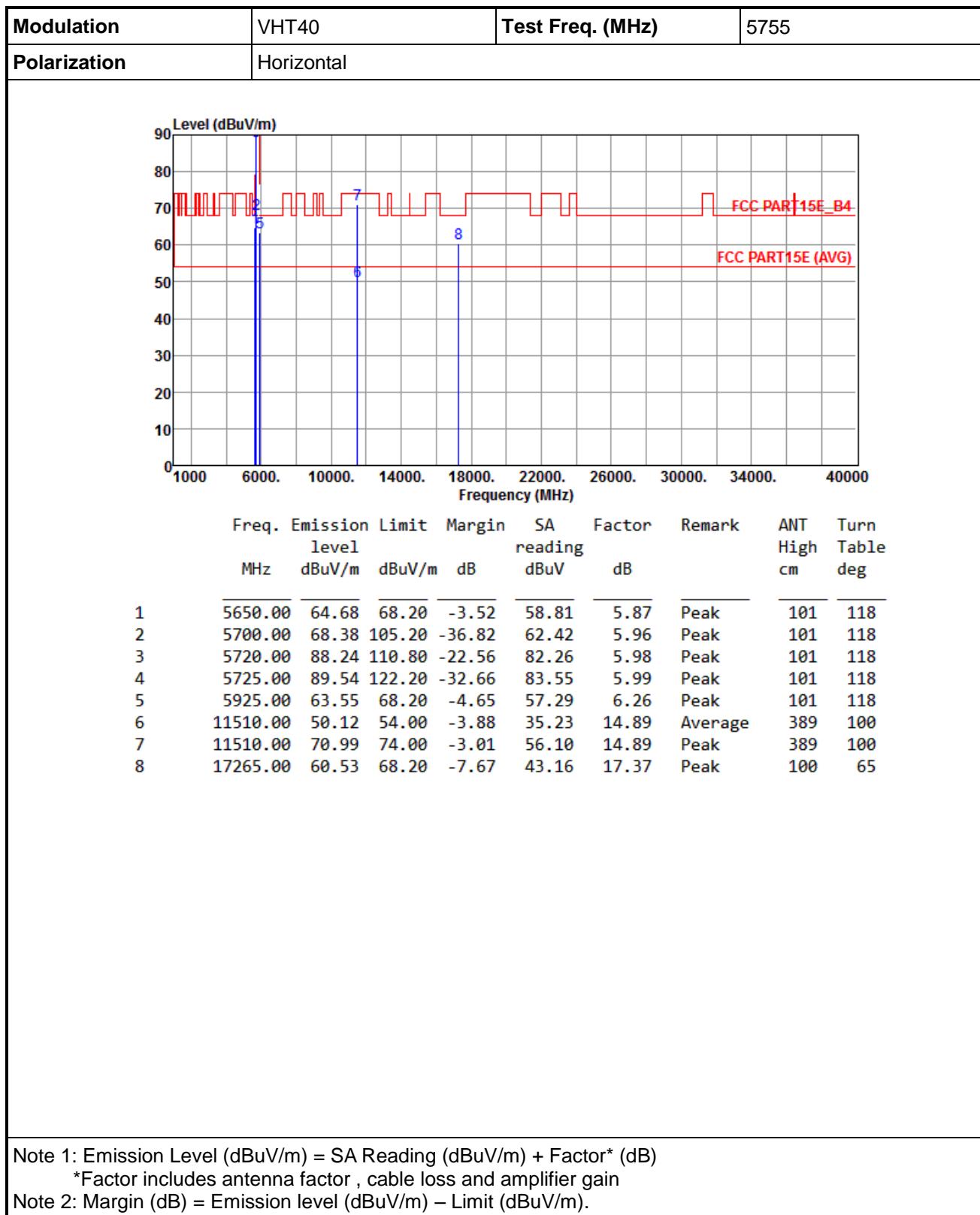
Note 1: Emission Level (dB_{UV}/m) = SA Reading (dB_{UV}/m) + Factor* (dB)

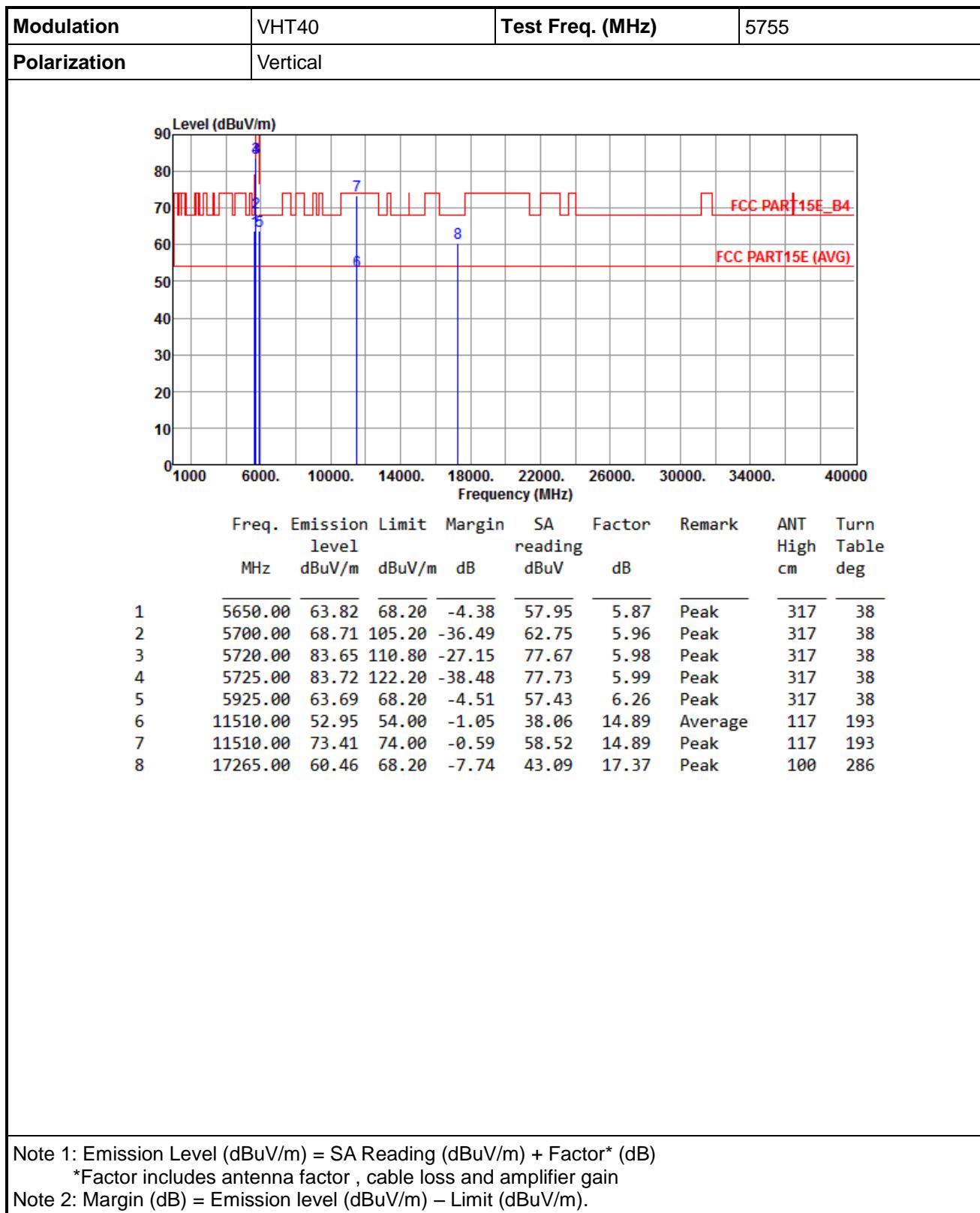
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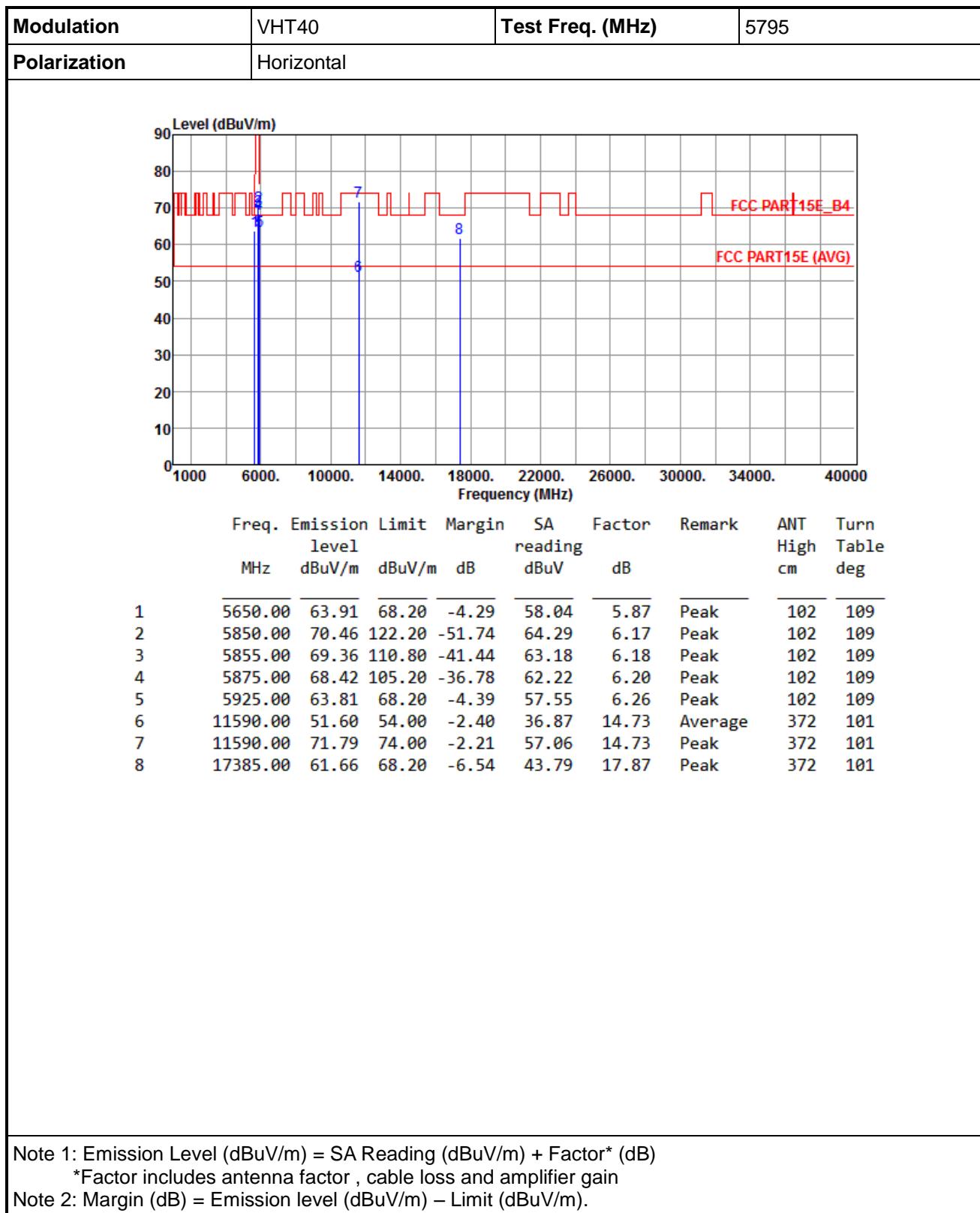
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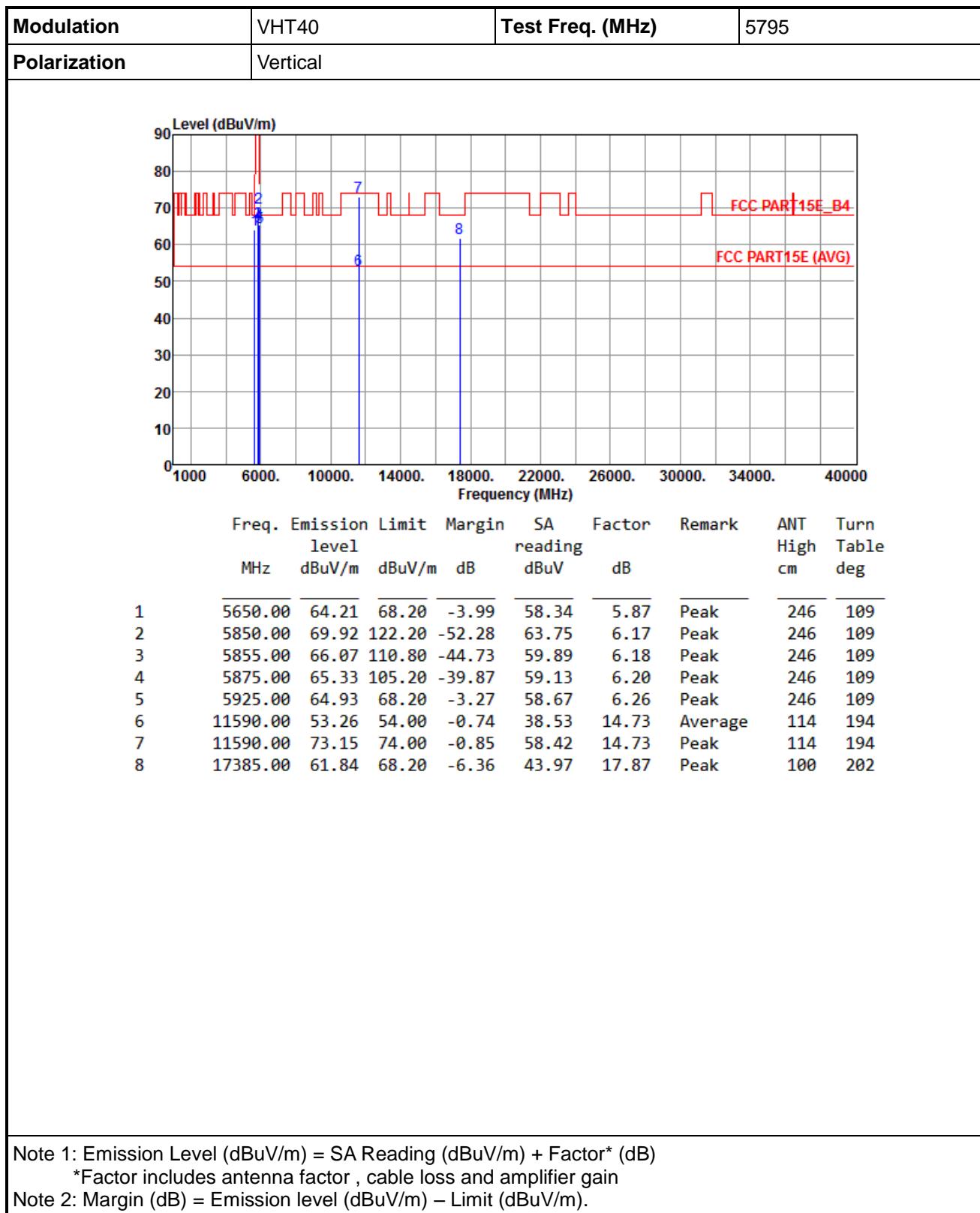




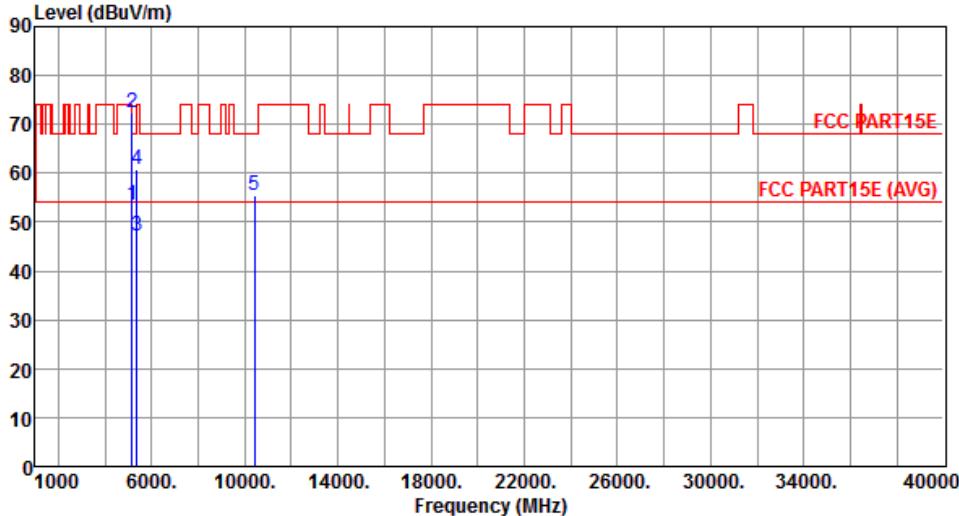


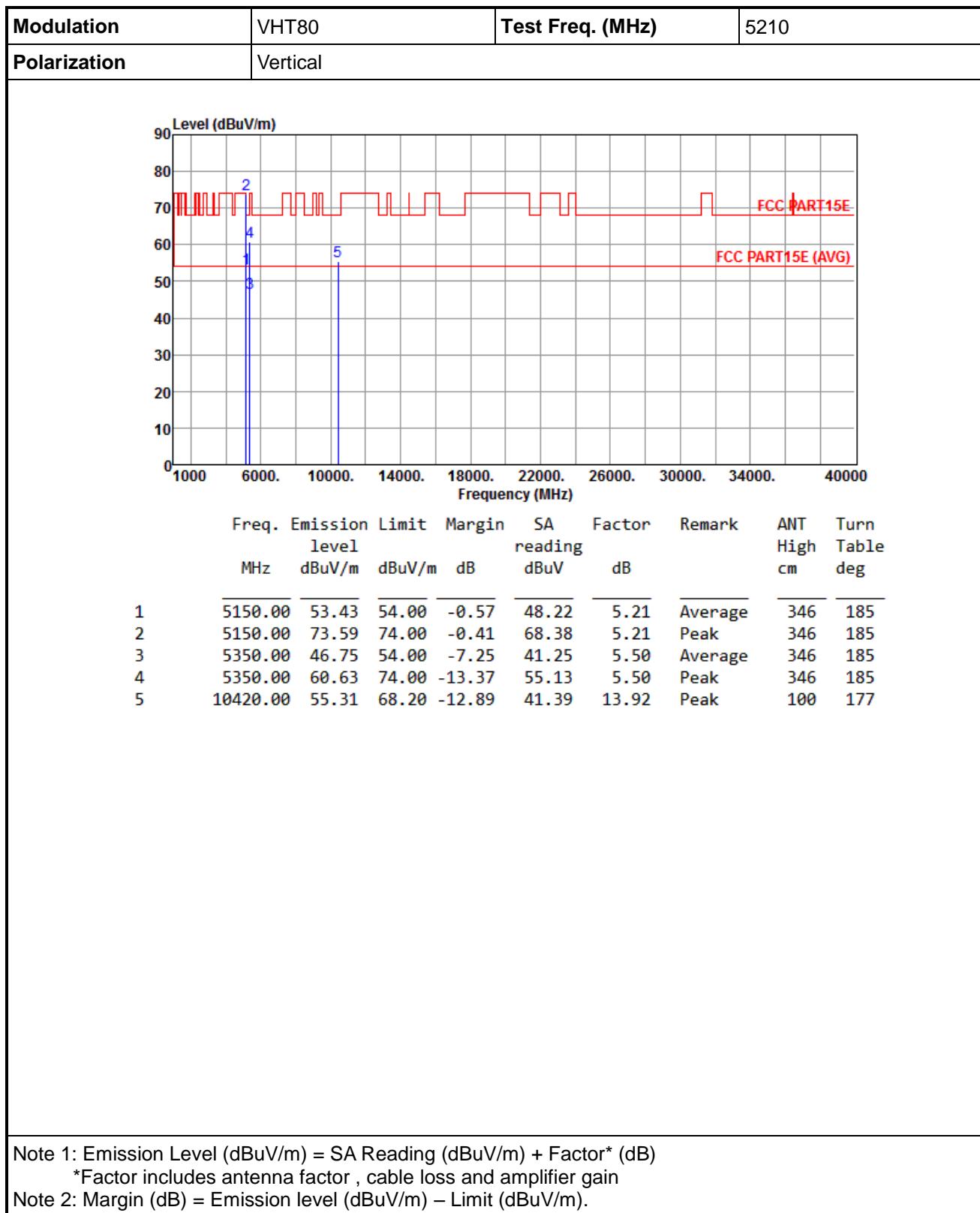


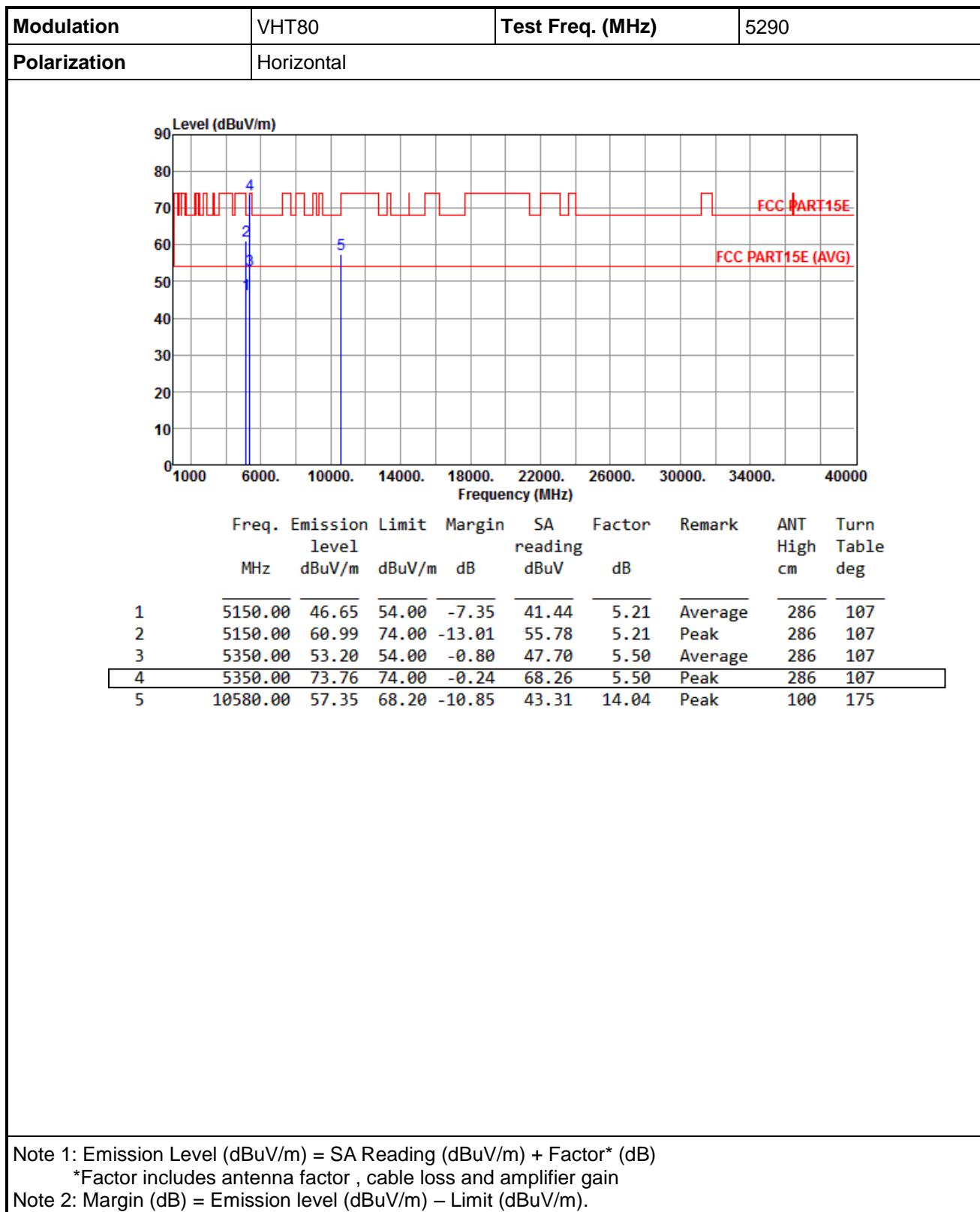


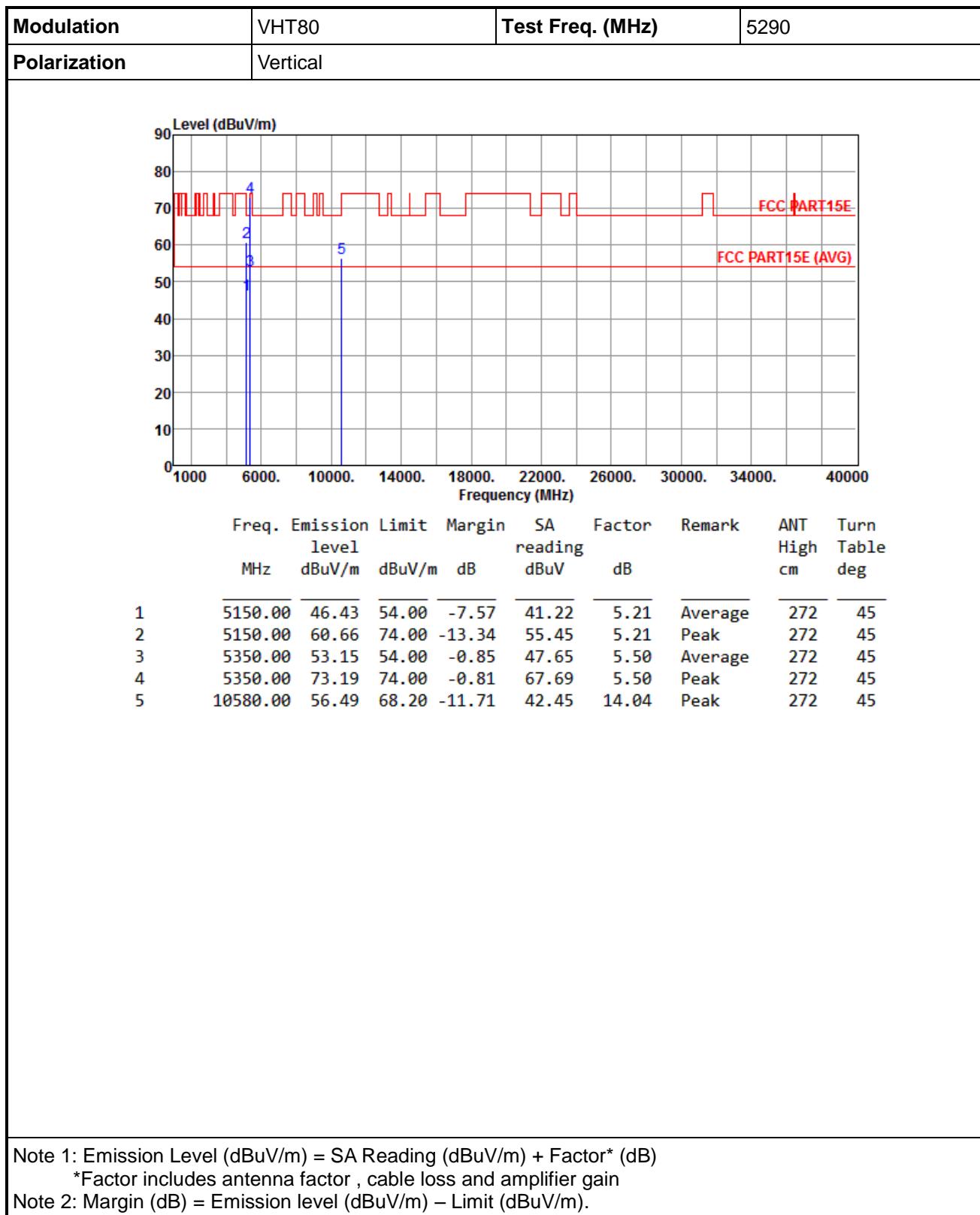


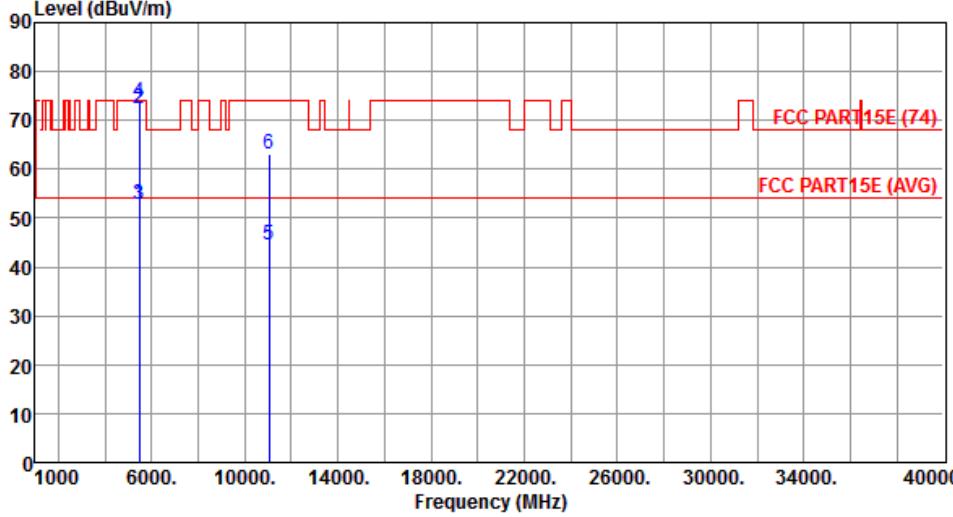
3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>53.41</td> <td>54.00</td> <td>-0.59</td> <td>48.20</td> <td>5.21</td> <td>Average</td> <td>282</td> <td>103</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>72.40</td> <td>74.00</td> <td>-1.60</td> <td>67.19</td> <td>5.21</td> <td>Peak</td> <td>282</td> <td>103</td> </tr> <tr> <td>3</td> <td>5350.00</td> <td>47.06</td> <td>54.00</td> <td>-6.94</td> <td>41.56</td> <td>5.50</td> <td>Average</td> <td>282</td> <td>103</td> </tr> <tr> <td>4</td> <td>5350.00</td> <td>60.62</td> <td>74.00</td> <td>-13.38</td> <td>55.12</td> <td>5.50</td> <td>Peak</td> <td>282</td> <td>103</td> </tr> <tr> <td>5</td> <td>10420.00</td> <td>55.48</td> <td>68.20</td> <td>-12.72</td> <td>41.56</td> <td>13.92</td> <td>Peak</td> <td>100</td> <td>165</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	53.41	54.00	-0.59	48.20	5.21	Average	282	103	2	5150.00	72.40	74.00	-1.60	67.19	5.21	Peak	282	103	3	5350.00	47.06	54.00	-6.94	41.56	5.50	Average	282	103	4	5350.00	60.62	74.00	-13.38	55.12	5.50	Peak	282	103	5	10420.00	55.48	68.20	-12.72	41.56	13.92	Peak	100	165
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
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<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																														





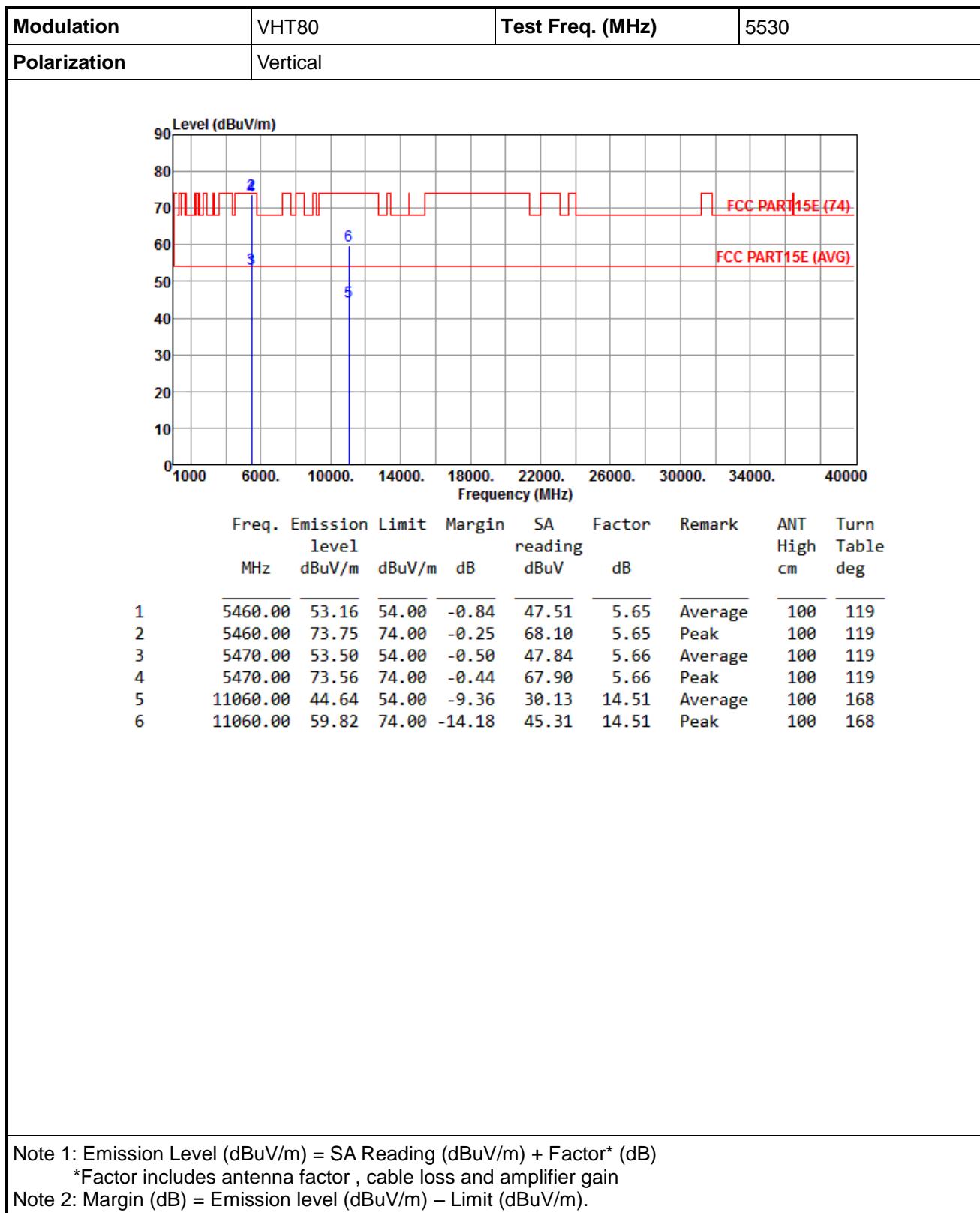


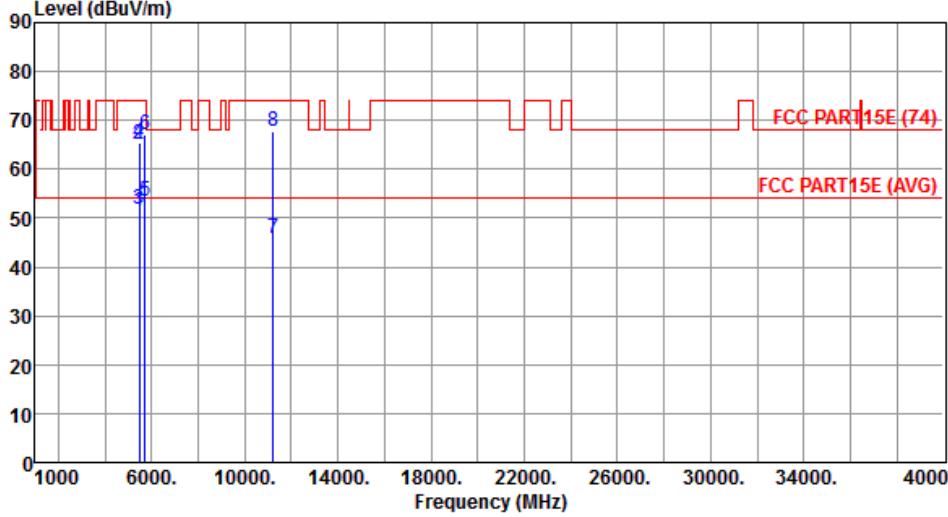
Modulation	VHT80	Test Freq. (MHz)	5530																																																															
Polarization	Horizontal																																																																	
																																																																		
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																										
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

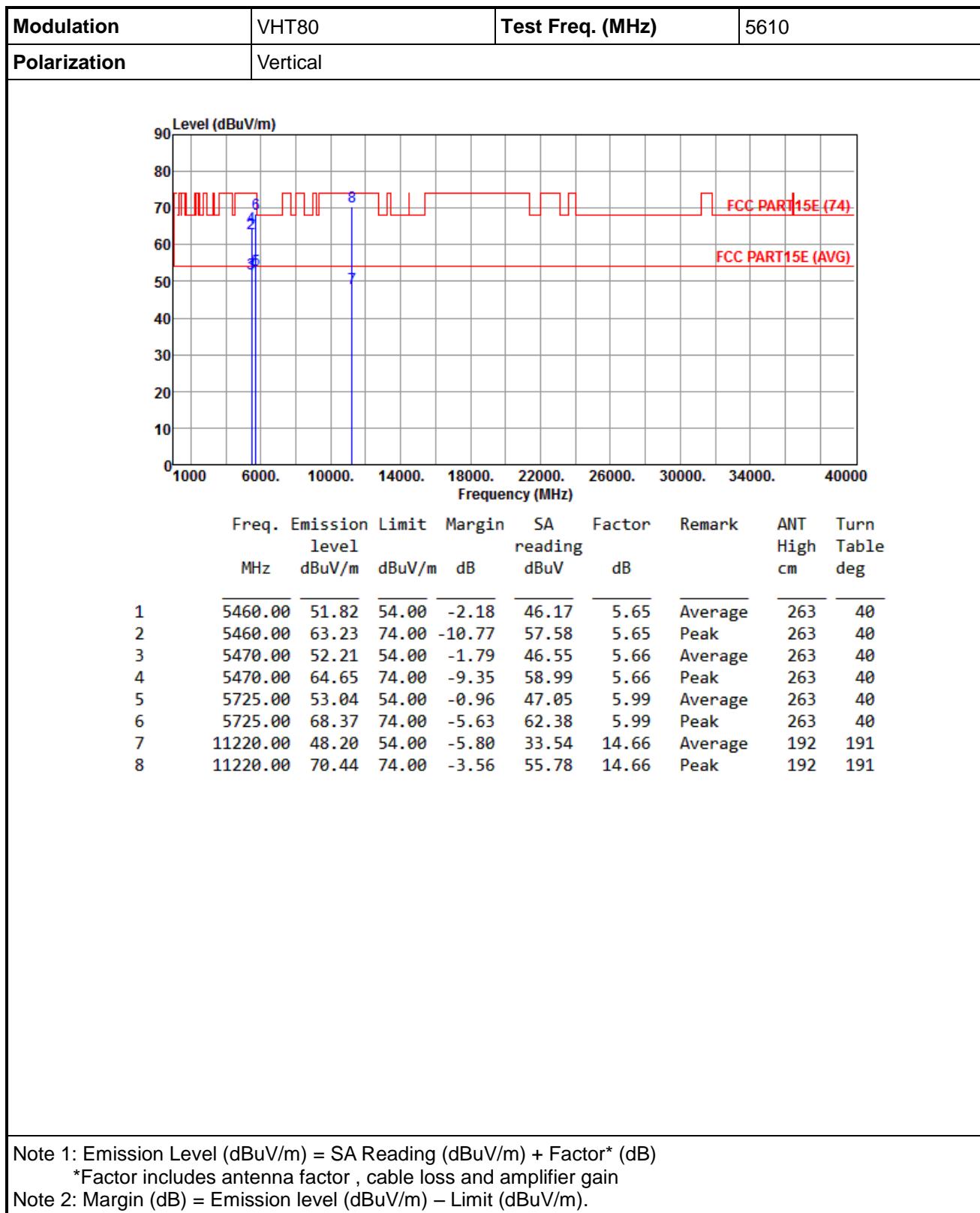


Modulation	VHT80	Test Freq. (MHz)	5610																																																						
Polarization	Horizontal																																																								
																																																									
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	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

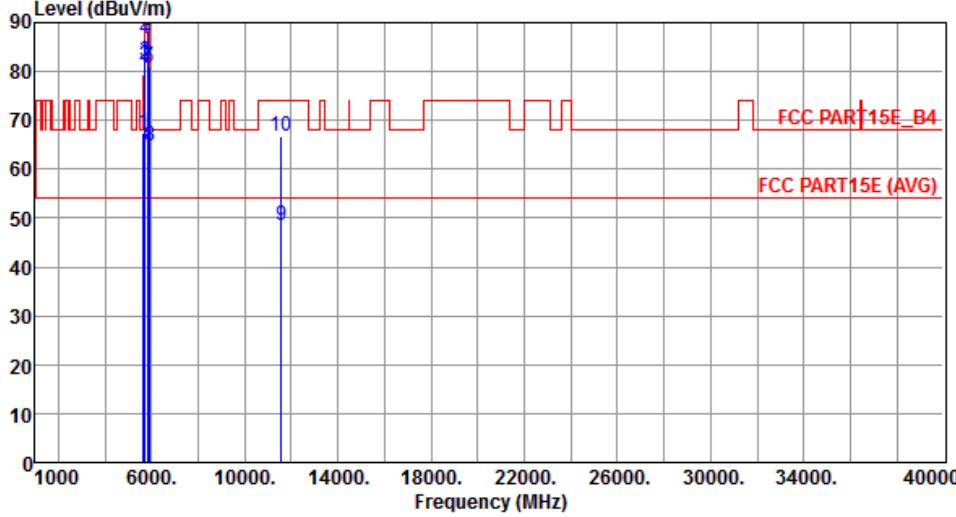
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Note 1: Emission Level (dB_{UV}/m) = SA Reading (dB_{UV}/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

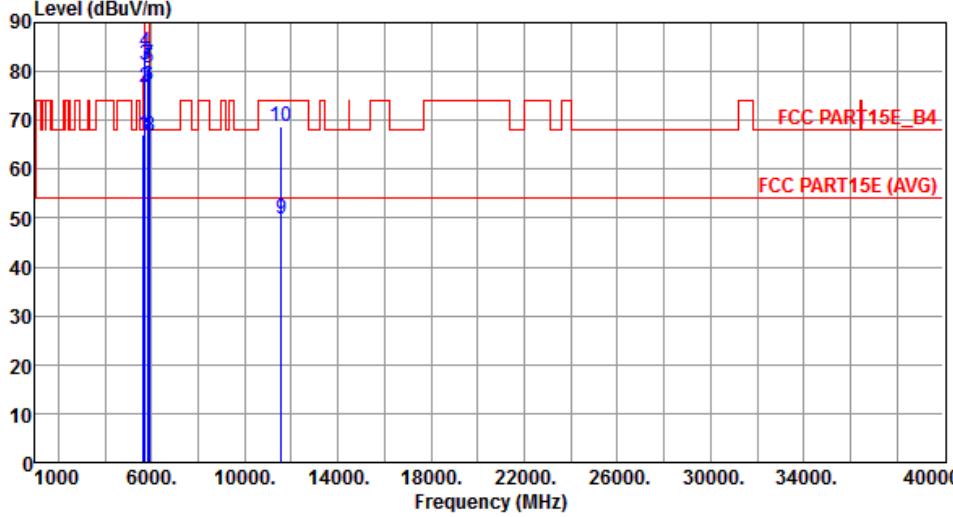
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Modulation	VHT80	Test Freq. (MHz)	5775																																																																																																													
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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Modulation	VHT80	Test Freq. (MHz)	5775																																																																																																													
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

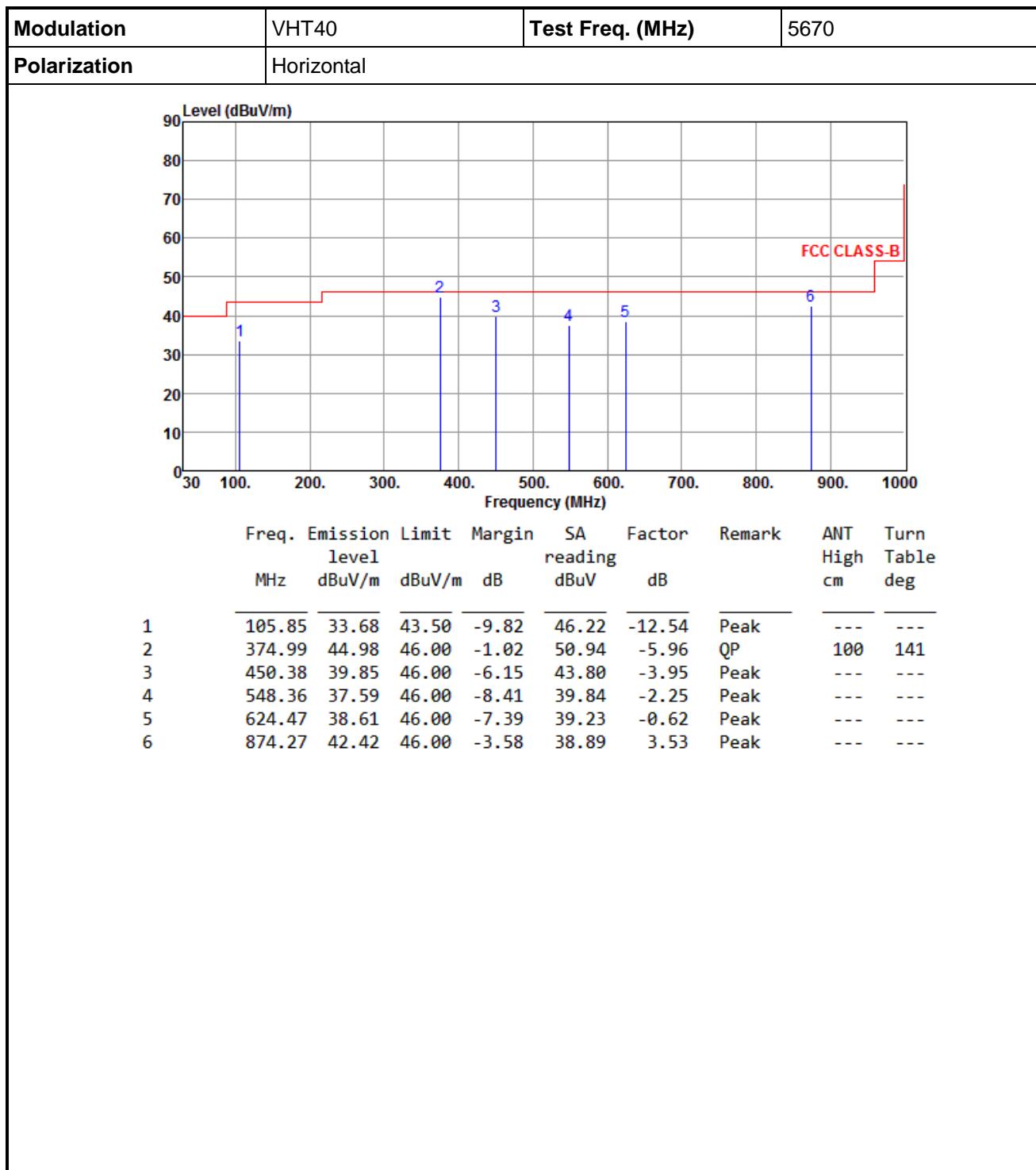
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Model Name: Amulet 756Q

Non-beamforming mode

3.5.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

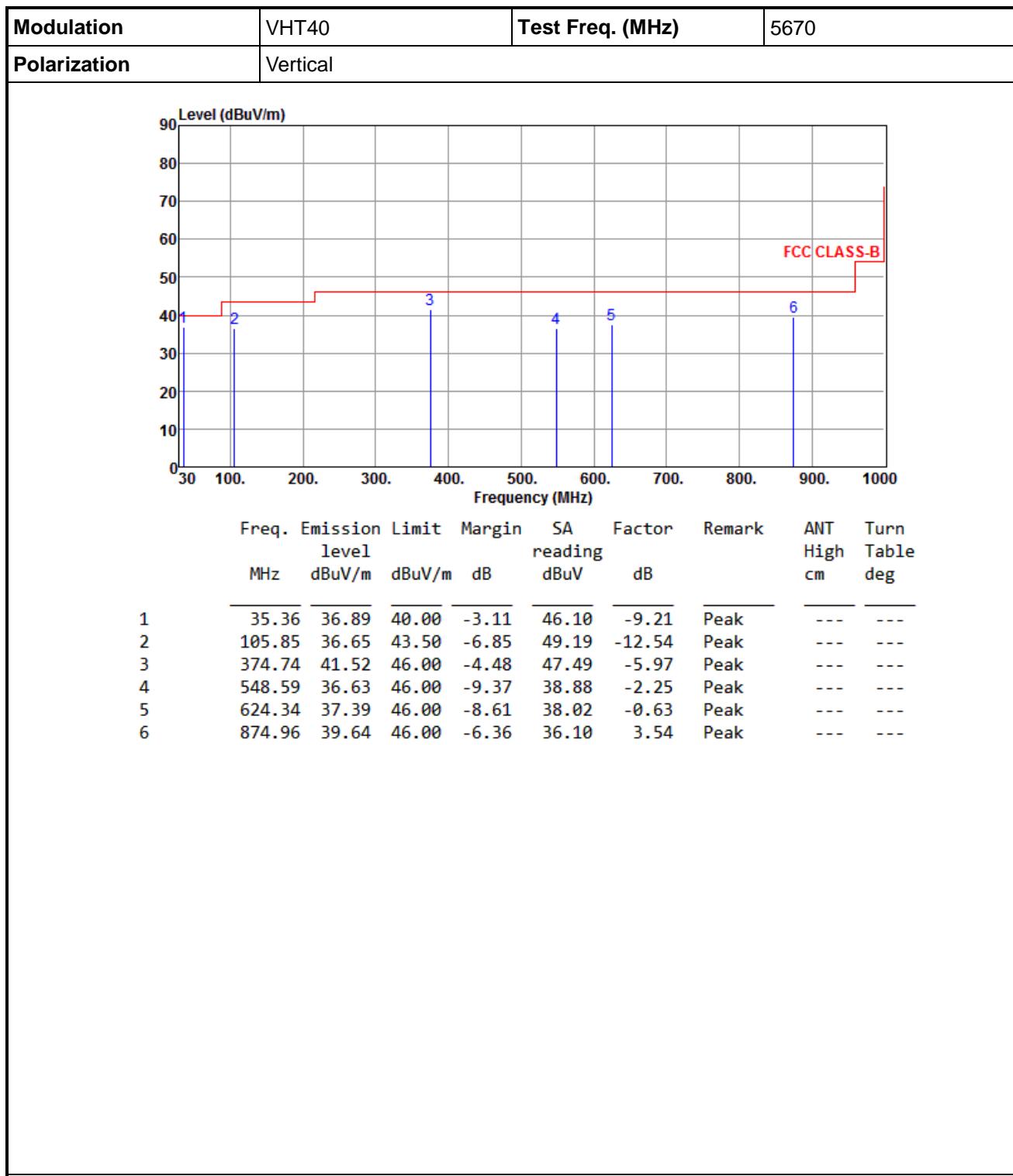


Note 1: Emission Level (dB_{BuV/m}) = SA Reading (dB_{BuV/m}) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dB_{BuV/m}) – Limit (dB_{BuV/m}).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

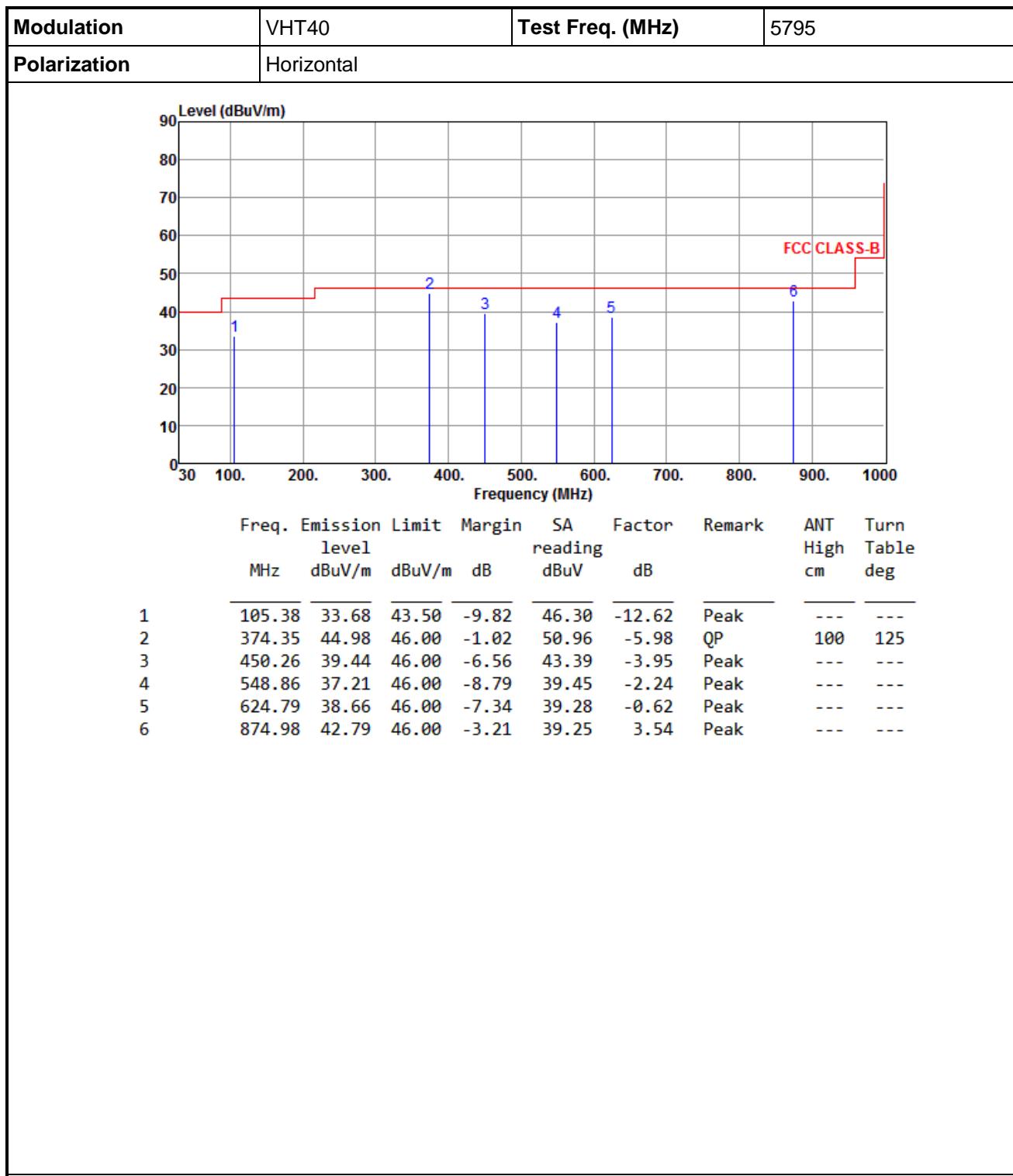


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

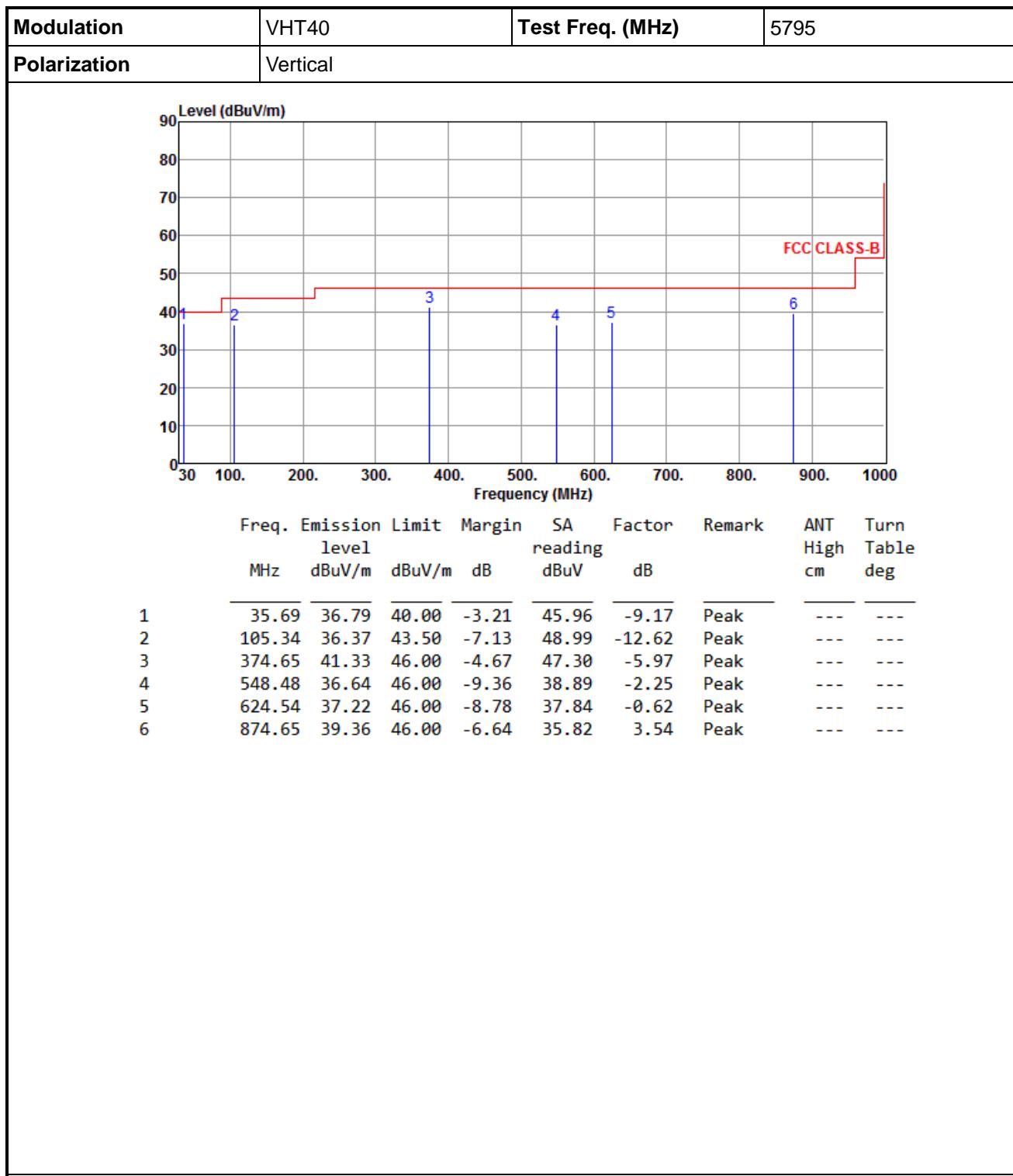


Note 1: Emission Level (dB_{UV}/m) = SA Reading (dB_{UV}/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dB_{UV}/m) – Limit (dB_{UV}/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



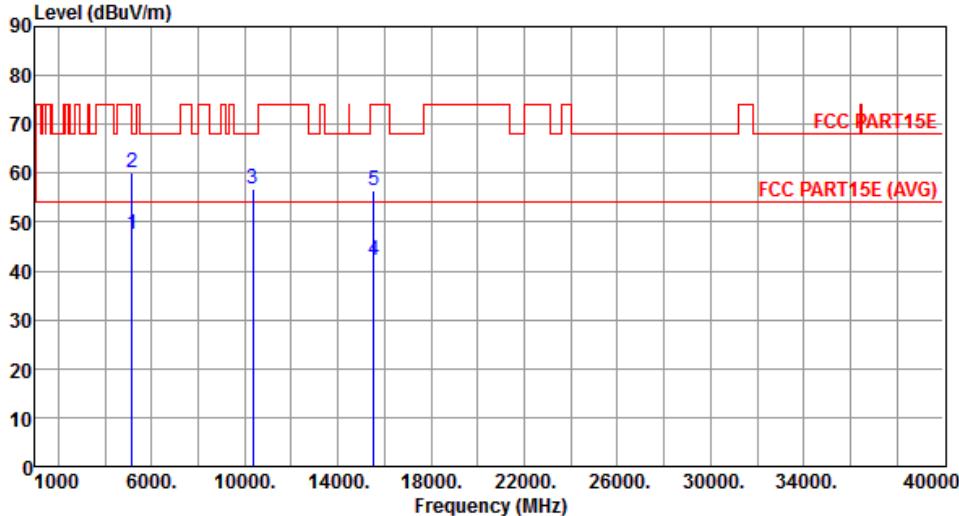
Note 1: Emission Level (dB_{uV/m}) = SA Reading (dB_{uV/m}) + Factor* (dB)

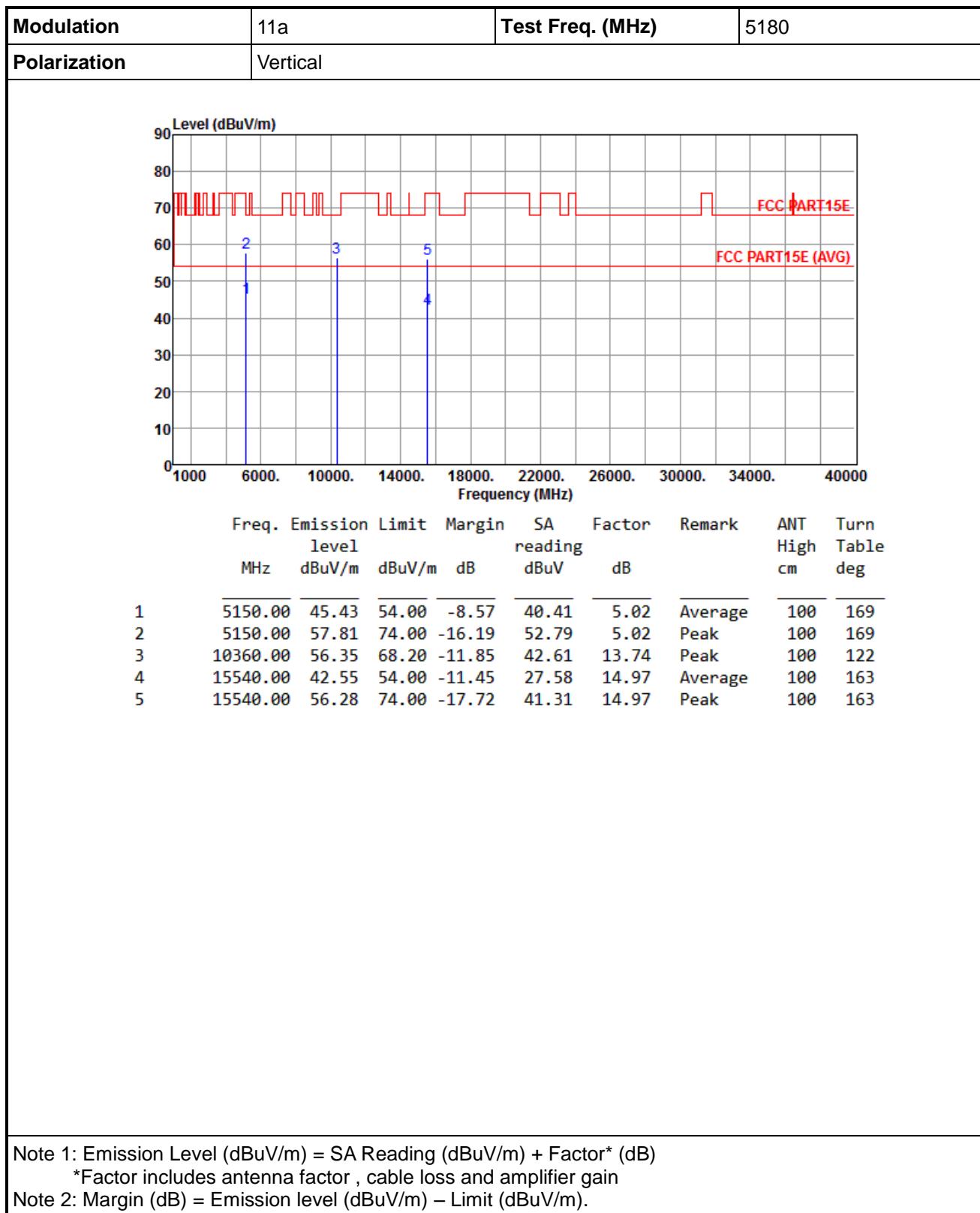
*Factor includes antenna factor , cable loss and amplifier gain

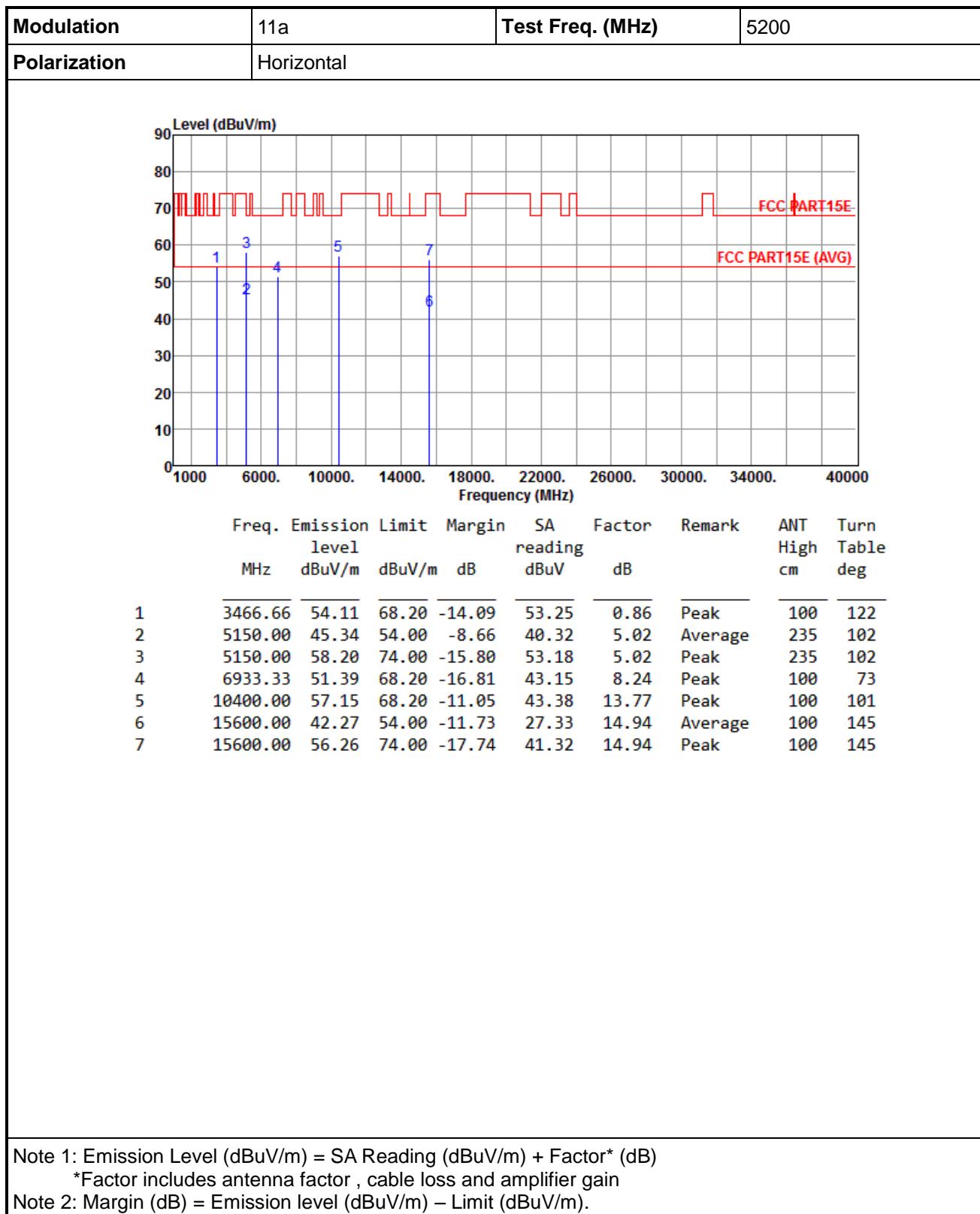
Note 2: Margin (dB) = Emission level (dB_{uV/m}) – Limit (dB_{uV/m}).

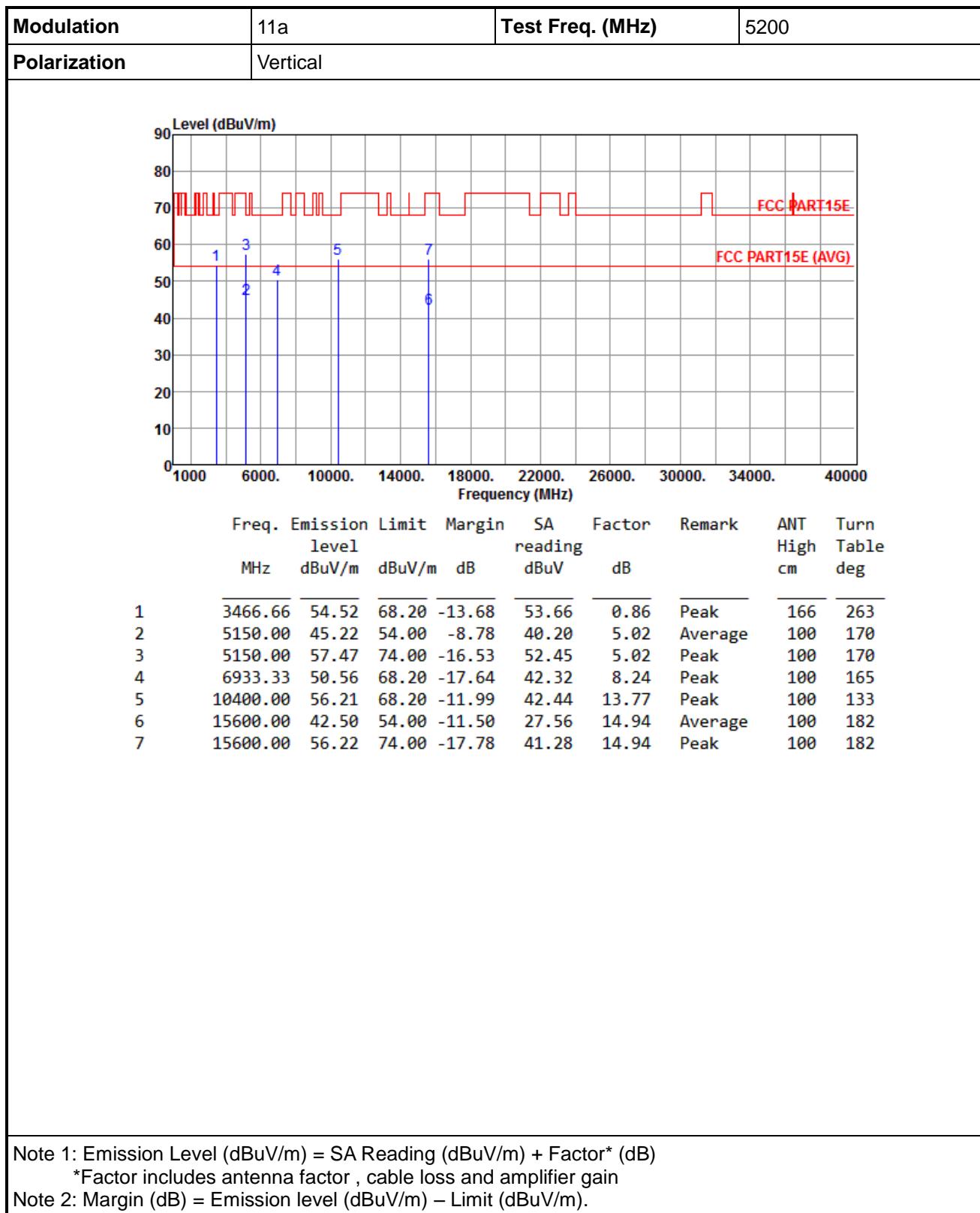
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

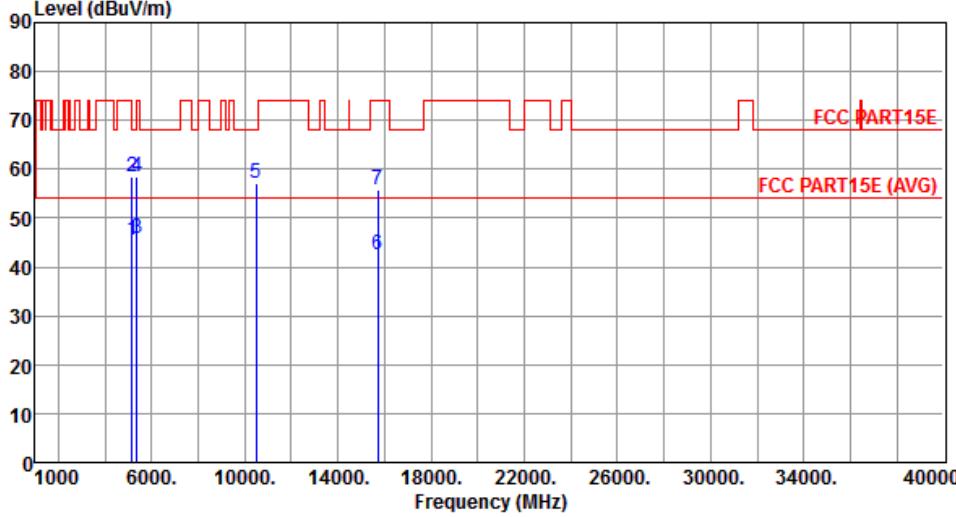
3.5.14 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

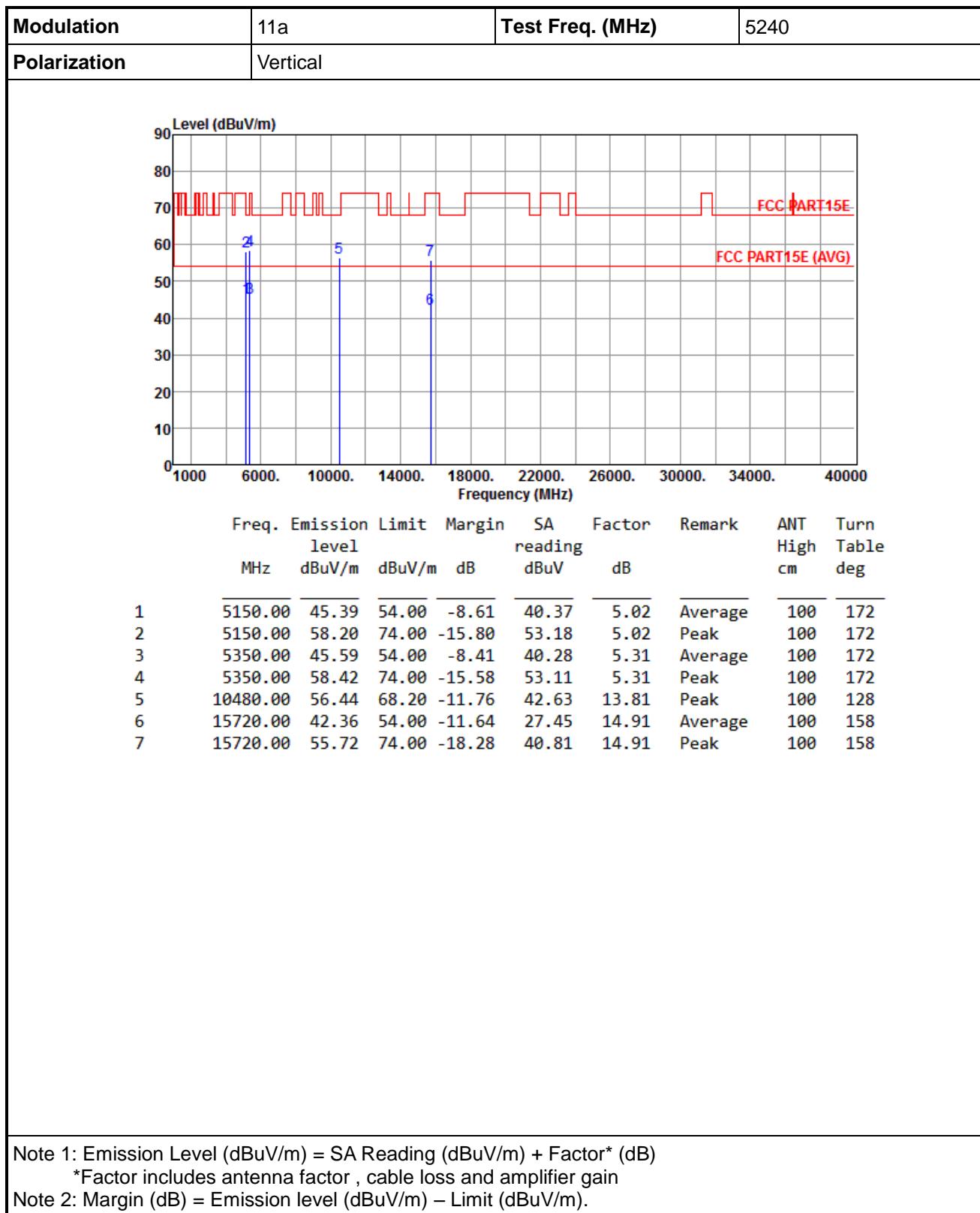
Modulation	11a	Test Freq. (MHz)	5180																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>47.58</td> <td>54.00</td> <td>-6.42</td> <td>42.56</td> <td>5.02</td> <td>Average</td> <td>237</td> <td>105</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>60.23</td> <td>74.00</td> <td>-13.77</td> <td>55.21</td> <td>5.02</td> <td>Peak</td> <td>237</td> <td>105</td> </tr> <tr> <td>3</td> <td>10360.00</td> <td>56.82</td> <td>68.20</td> <td>-11.38</td> <td>43.08</td> <td>13.74</td> <td>Peak</td> <td>100</td> <td>100</td> </tr> <tr> <td>4</td> <td>15540.00</td> <td>42.18</td> <td>54.00</td> <td>-11.82</td> <td>27.21</td> <td>14.97</td> <td>Average</td> <td>100</td> <td>183</td> </tr> <tr> <td>5</td> <td>15540.00</td> <td>56.30</td> <td>74.00</td> <td>-17.70</td> <td>41.33</td> <td>14.97</td> <td>Peak</td> <td>100</td> <td>183</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	47.58	54.00	-6.42	42.56	5.02	Average	237	105	2	5150.00	60.23	74.00	-13.77	55.21	5.02	Peak	237	105	3	10360.00	56.82	68.20	-11.38	43.08	13.74	Peak	100	100	4	15540.00	42.18	54.00	-11.82	27.21	14.97	Average	100	183	5	15540.00	56.30	74.00	-17.70	41.33	14.97	Peak	100	183
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
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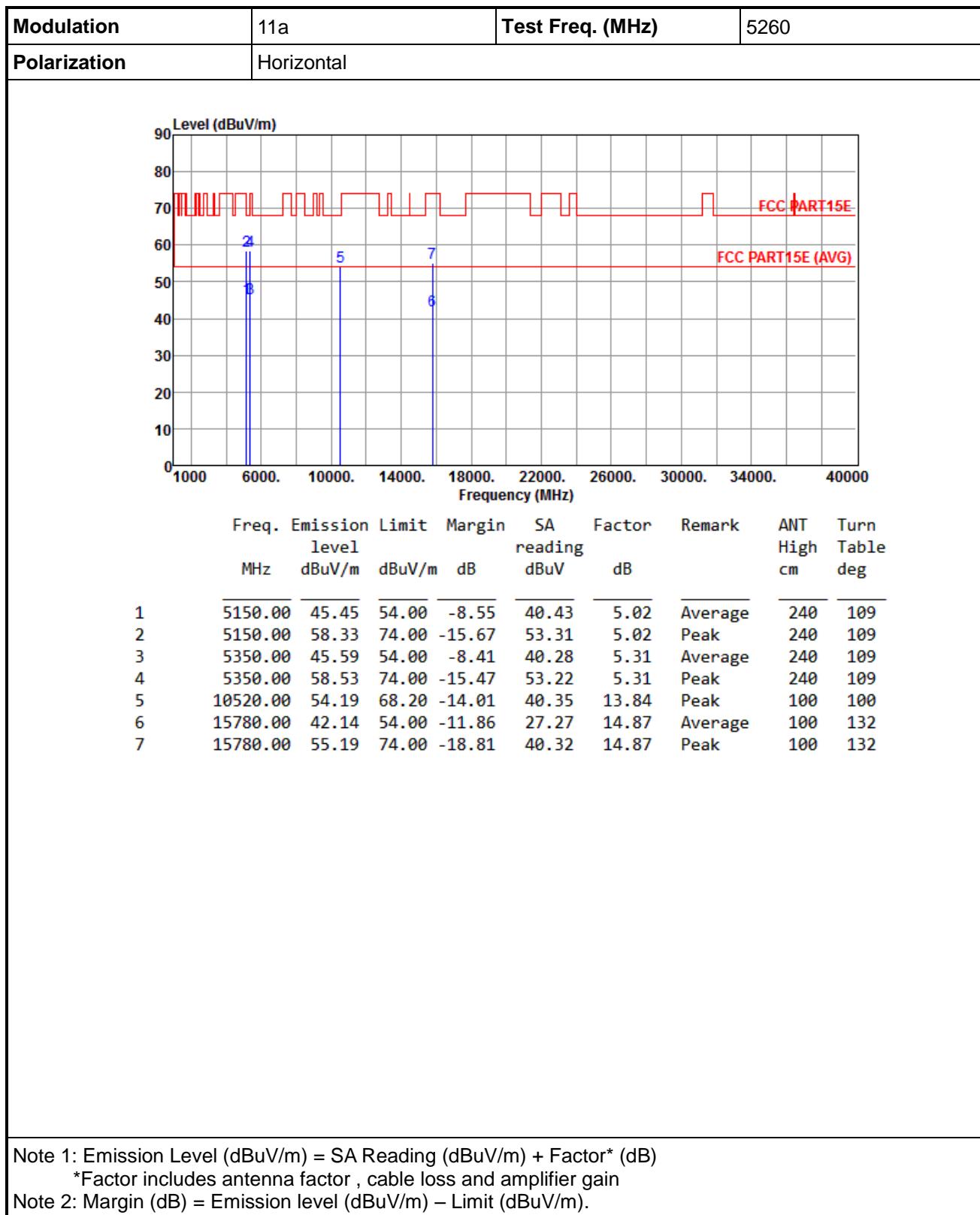


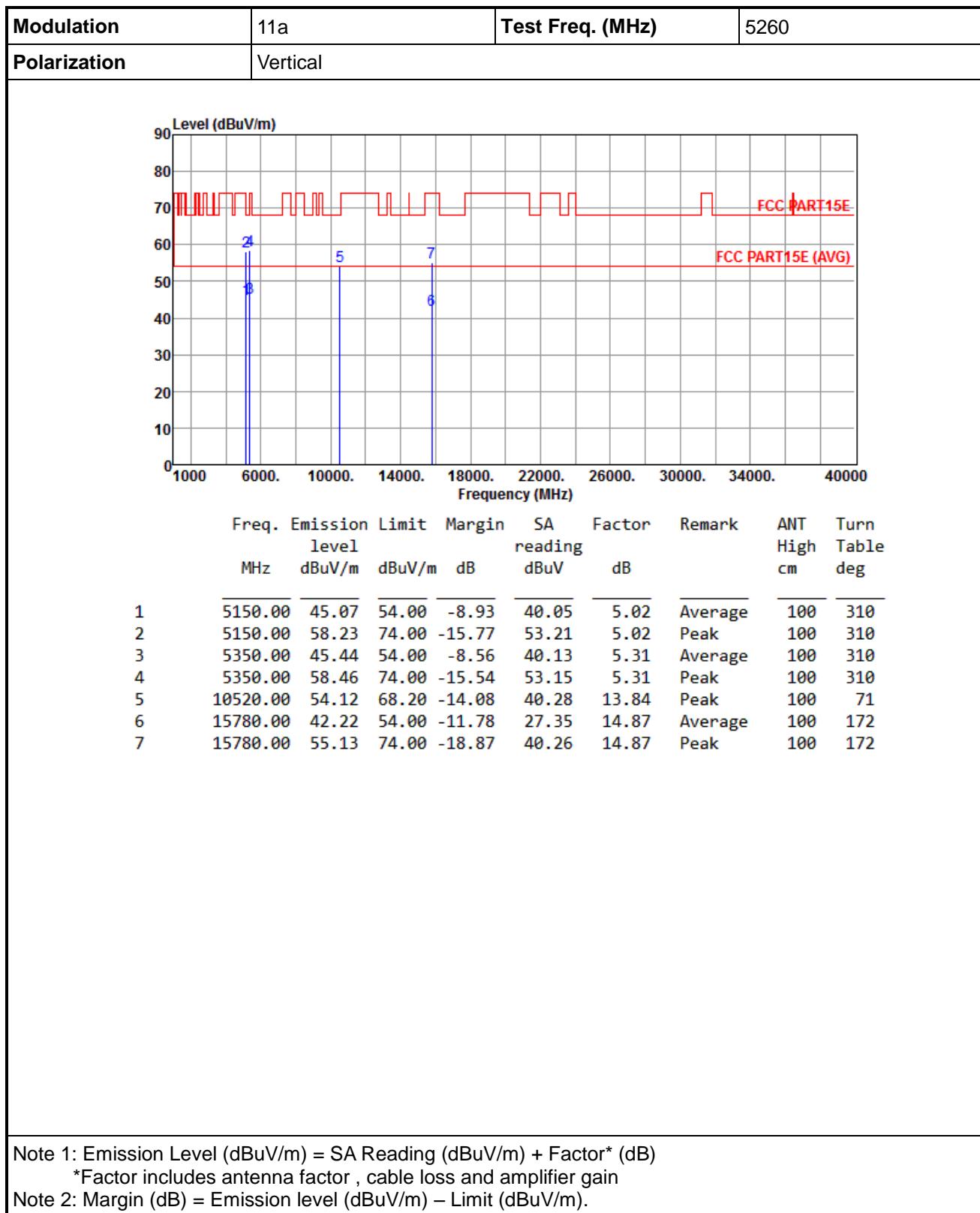


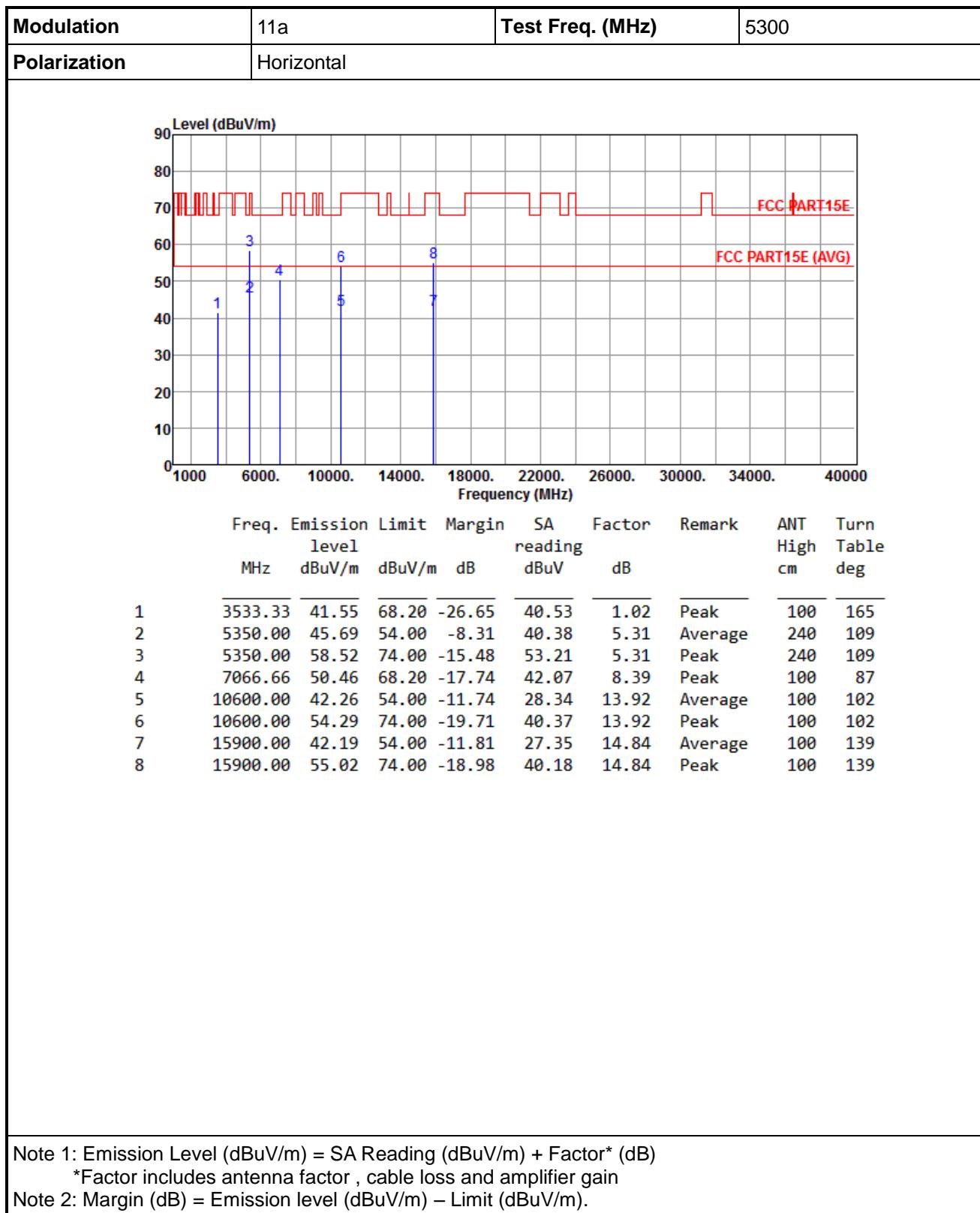


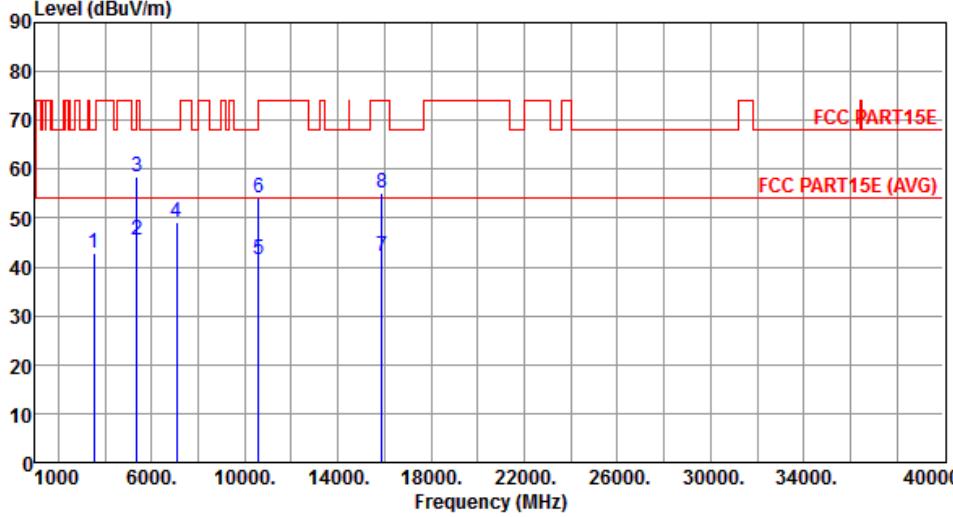
Modulation	11a	Test Freq. (MHz)	5240																																																																																	
Polarization	Horizontal																																																																																			
																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-bottom: 2px;">Freq.</th> <th style="text-align: left; padding-bottom: 2px;">Emission</th> <th style="text-align: left; padding-bottom: 2px;">Limit</th> <th style="text-align: left; padding-bottom: 2px;">Margin</th> <th style="text-align: left; padding-bottom: 2px;">SA</th> <th style="text-align: left; padding-bottom: 2px;">Factor</th> <th style="text-align: left; padding-bottom: 2px;">Remark</th> <th style="text-align: left; padding-bottom: 2px;">ANT</th> <th style="text-align: left; padding-bottom: 2px;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> <th style="text-align: left;">deg</th> </tr> </thead> <tbody> <tr> <td style="padding-top: 2px;">1</td><td style="padding-top: 2px;">5150.00</td><td style="padding-top: 2px;">45.40</td><td style="padding-top: 2px;">54.00</td><td style="padding-top: 2px;">-8.60</td><td style="padding-top: 2px;">40.38</td><td style="padding-top: 2px;">5.02</td><td style="padding-top: 2px;">Average</td><td style="padding-top: 2px;">235</td> </tr> <tr> <td style="padding-top: 2px;">2</td><td style="padding-top: 2px;">5150.00</td><td style="padding-top: 2px;">58.40</td><td style="padding-top: 2px;">74.00</td><td style="padding-top: 2px;">-15.60</td><td style="padding-top: 2px;">53.38</td><td style="padding-top: 2px;">5.02</td><td style="padding-top: 2px;">Peak</td><td style="padding-top: 2px;">235</td> </tr> <tr> <td style="padding-top: 2px;">3</td><td style="padding-top: 2px;">5350.00</td><td style="padding-top: 2px;">45.75</td><td style="padding-top: 2px;">54.00</td><td style="padding-top: 2px;">-8.25</td><td style="padding-top: 2px;">40.44</td><td style="padding-top: 2px;">5.31</td><td style="padding-top: 2px;">Average</td><td style="padding-top: 2px;">235</td> </tr> <tr> <td style="padding-top: 2px;">4</td><td style="padding-top: 2px;">5350.00</td><td style="padding-top: 2px;">58.59</td><td style="padding-top: 2px;">74.00</td><td style="padding-top: 2px;">-15.41</td><td style="padding-top: 2px;">53.28</td><td style="padding-top: 2px;">5.31</td><td style="padding-top: 2px;">Peak</td><td style="padding-top: 2px;">235</td> </tr> <tr> <td style="padding-top: 2px;">5</td><td style="padding-top: 2px;">10480.00</td><td style="padding-top: 2px;">57.16</td><td style="padding-top: 2px;">68.20</td><td style="padding-top: 2px;">-11.04</td><td style="padding-top: 2px;">43.35</td><td style="padding-top: 2px;">13.81</td><td style="padding-top: 2px;">Peak</td><td style="padding-top: 2px;">100</td> </tr> <tr> <td style="padding-top: 2px;">6</td><td style="padding-top: 2px;">15720.00</td><td style="padding-top: 2px;">42.53</td><td style="padding-top: 2px;">54.00</td><td style="padding-top: 2px;">-11.47</td><td style="padding-top: 2px;">27.62</td><td style="padding-top: 2px;">14.91</td><td style="padding-top: 2px;">Average</td><td style="padding-top: 2px;">100</td> </tr> <tr> <td style="padding-top: 2px;">7</td><td style="padding-top: 2px;">15720.00</td><td style="padding-top: 2px;">55.95</td><td style="padding-top: 2px;">74.00</td><td style="padding-top: 2px;">-18.05</td><td style="padding-top: 2px;">41.04</td><td style="padding-top: 2px;">14.91</td><td style="padding-top: 2px;">Peak</td><td style="padding-top: 2px;">100</td> </tr> </tbody> </table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB	High	Table	deg	1	5150.00	45.40	54.00	-8.60	40.38	5.02	Average	235	2	5150.00	58.40	74.00	-15.60	53.38	5.02	Peak	235	3	5350.00	45.75	54.00	-8.25	40.44	5.31	Average	235	4	5350.00	58.59	74.00	-15.41	53.28	5.31	Peak	235	5	10480.00	57.16	68.20	-11.04	43.35	13.81	Peak	100	6	15720.00	42.53	54.00	-11.47	27.62	14.91	Average	100	7	15720.00	55.95	74.00	-18.05	41.04	14.91	Peak	100
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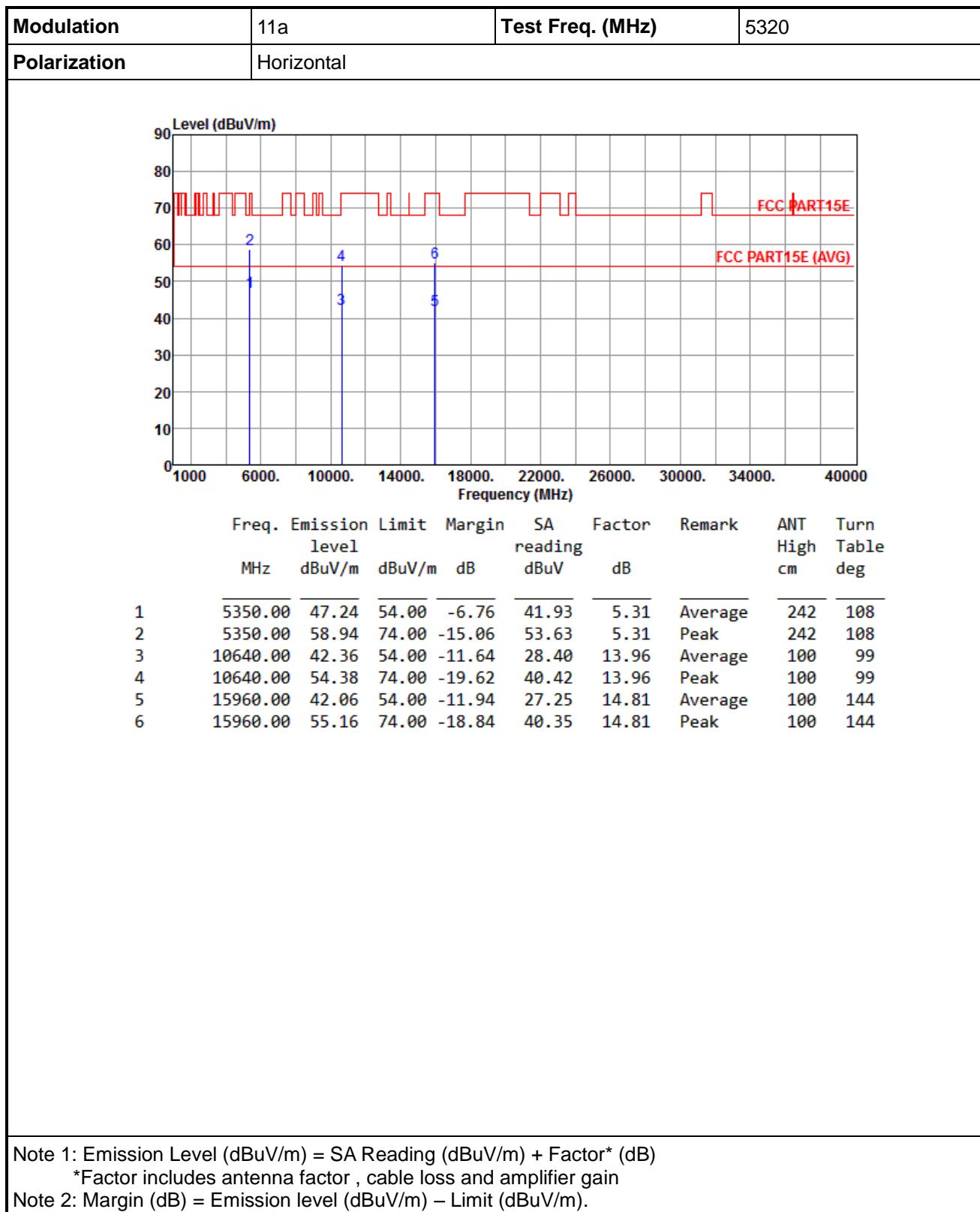


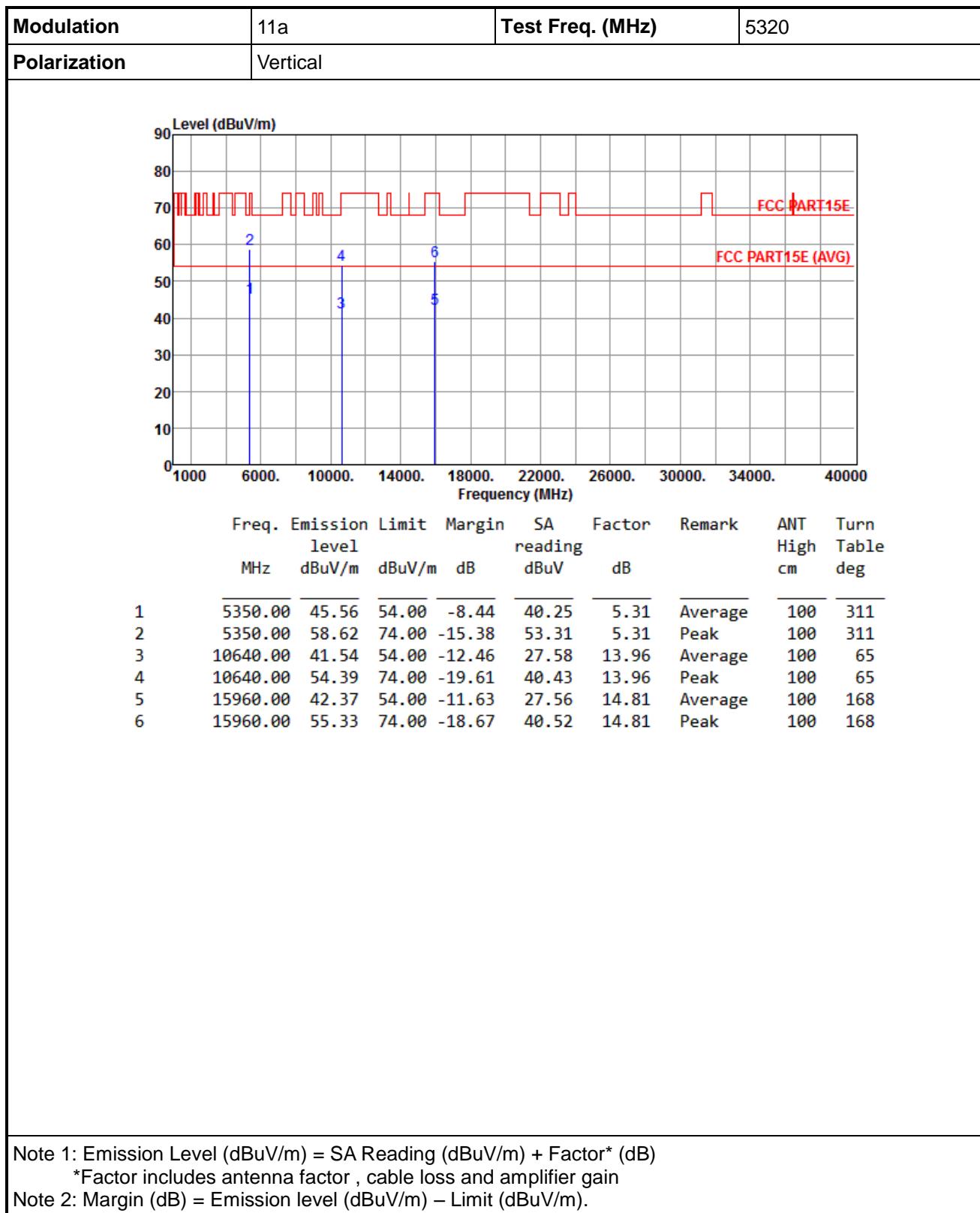
Modulation	11a	Test Freq. (MHz)	5300																																																																																									
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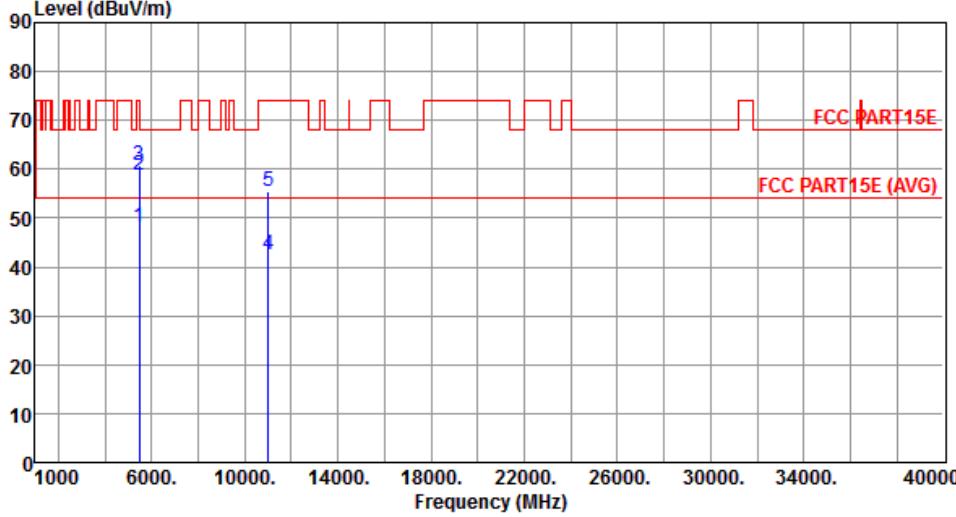
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



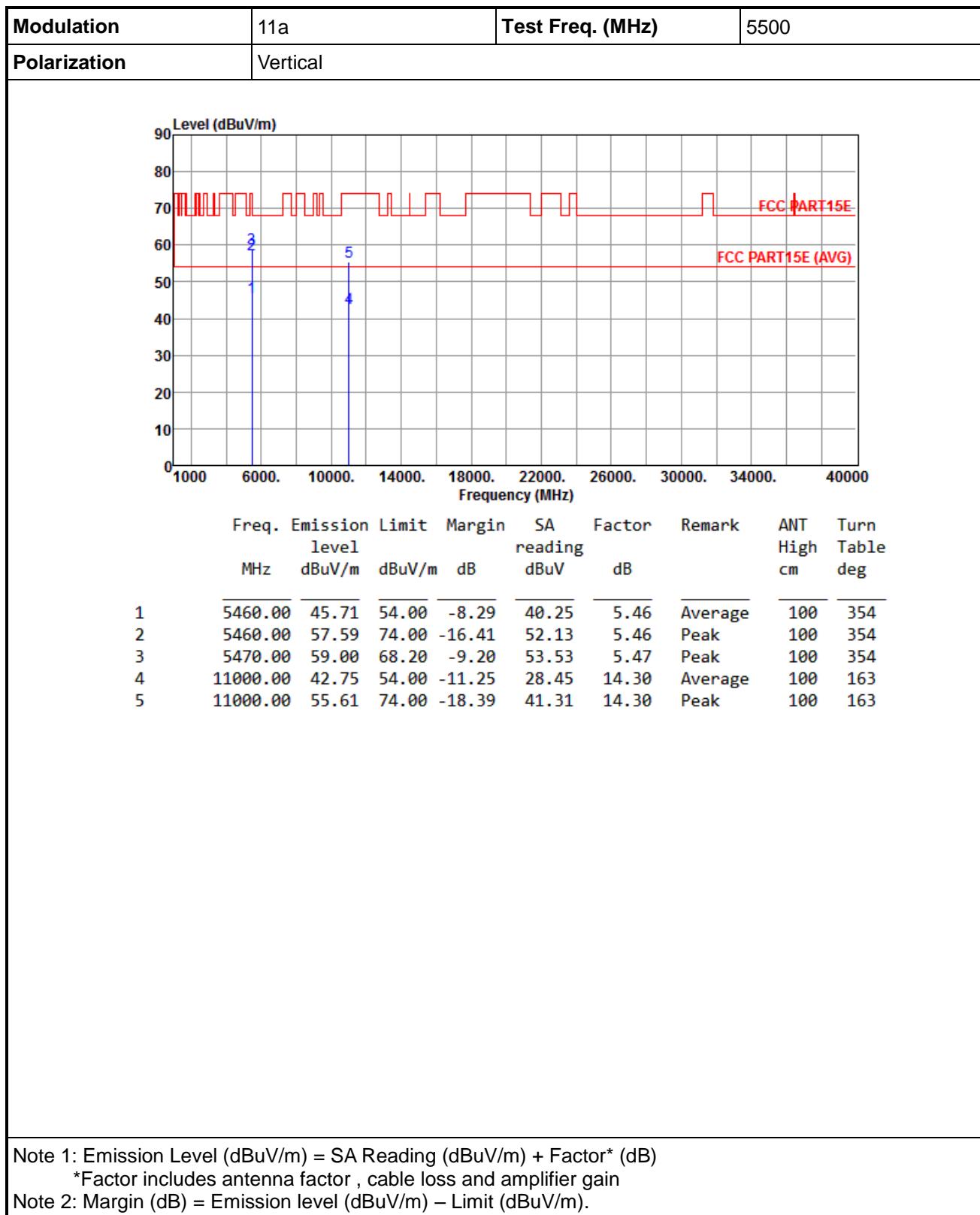


Modulation	11a	Test Freq. (MHz)	5500																																																											
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

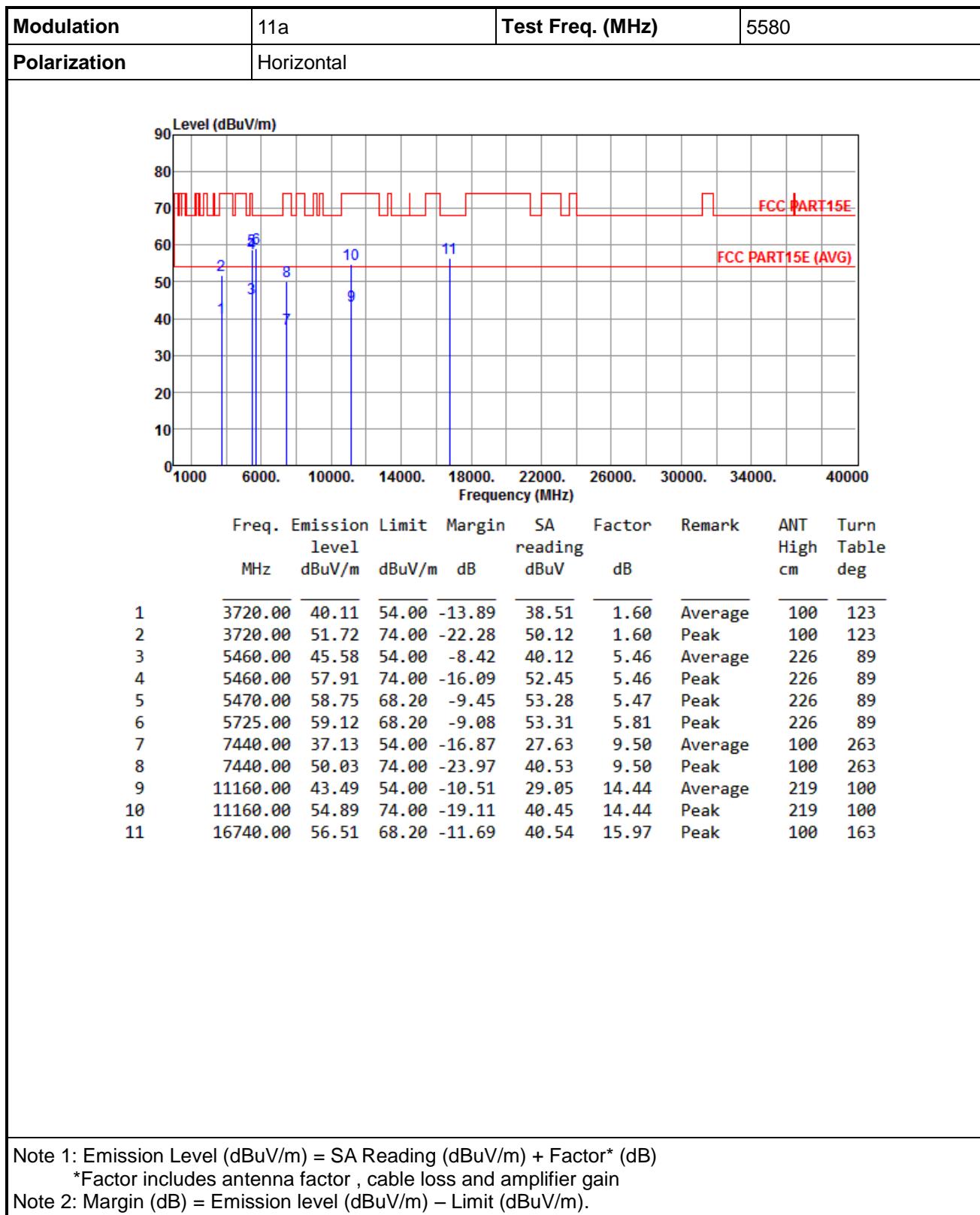
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

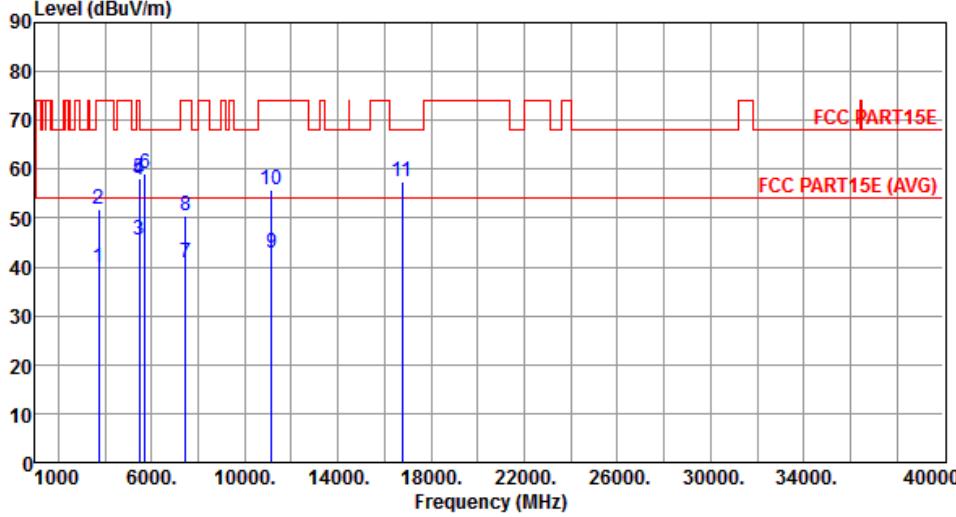


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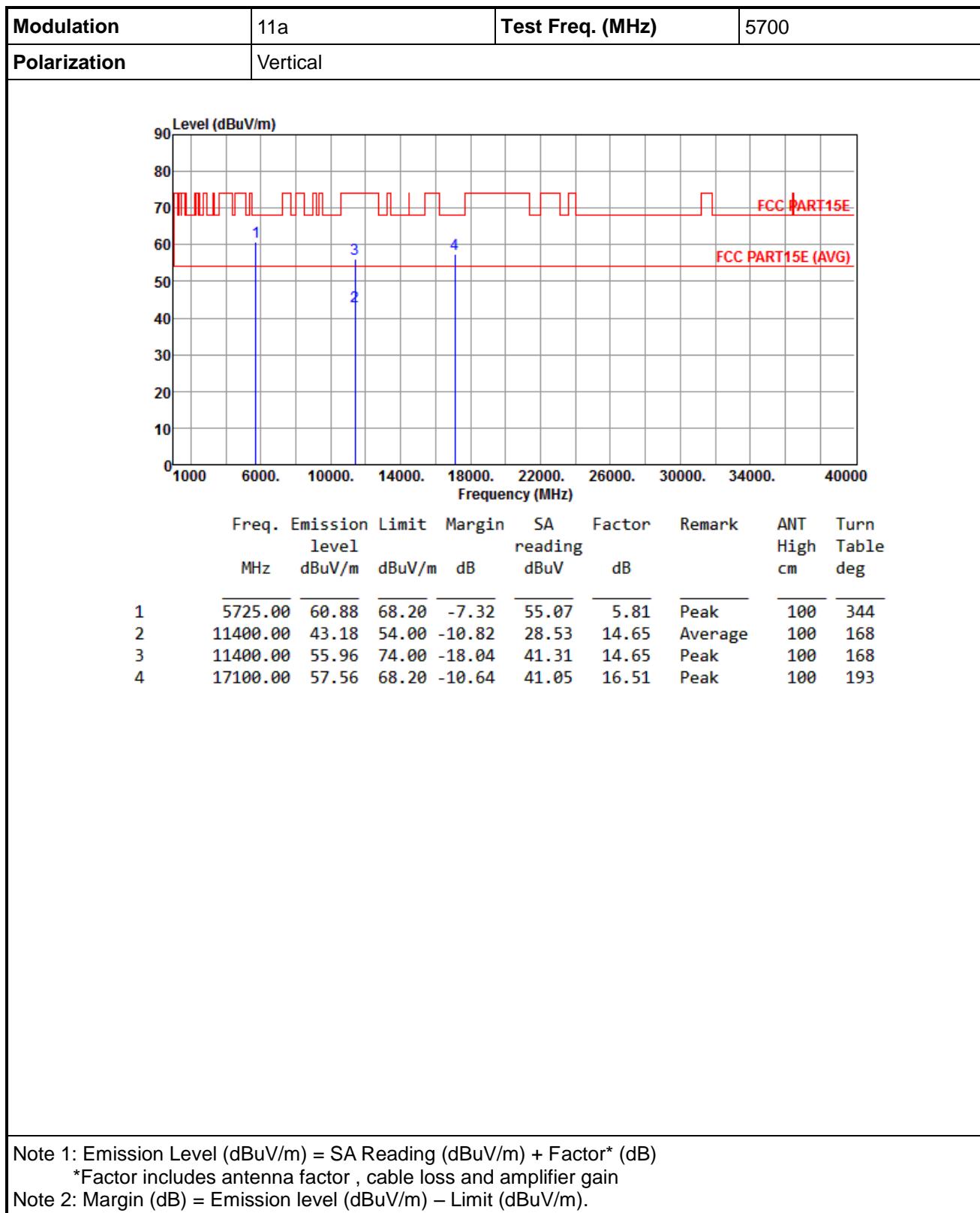
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

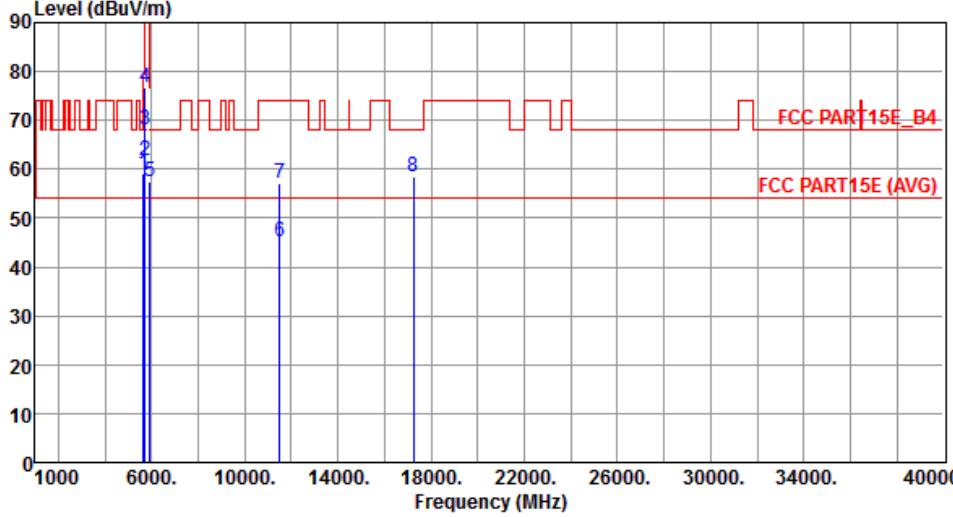
Modulation	11a	Test Freq. (MHz)	5700																																																	
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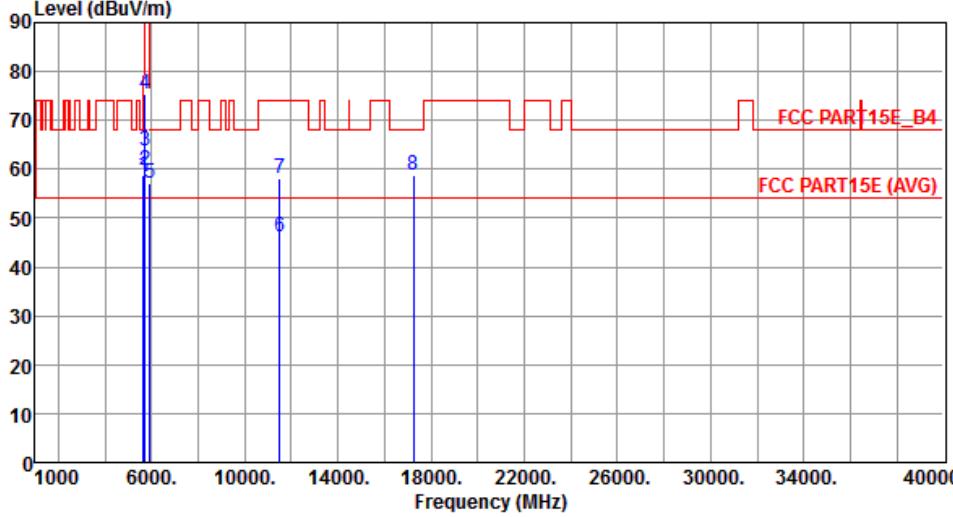


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4	5725.00	76.66	122.20	-45.54	70.85	5.81	Peak	224	87																																																																																			
5	5925.00	57.38	68.20	-10.82	51.29	6.09	Peak	224	87																																																																																			
6	11490.00	45.06	54.00	-8.94	30.33	14.73	Average	100	125																																																																																			
7	11490.00	57.15	74.00	-16.85	42.42	14.73	Peak	100	125																																																																																			
8	17235.00	58.38	68.20	-9.82	41.31	17.07	Peak	100	165																																																																																			

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

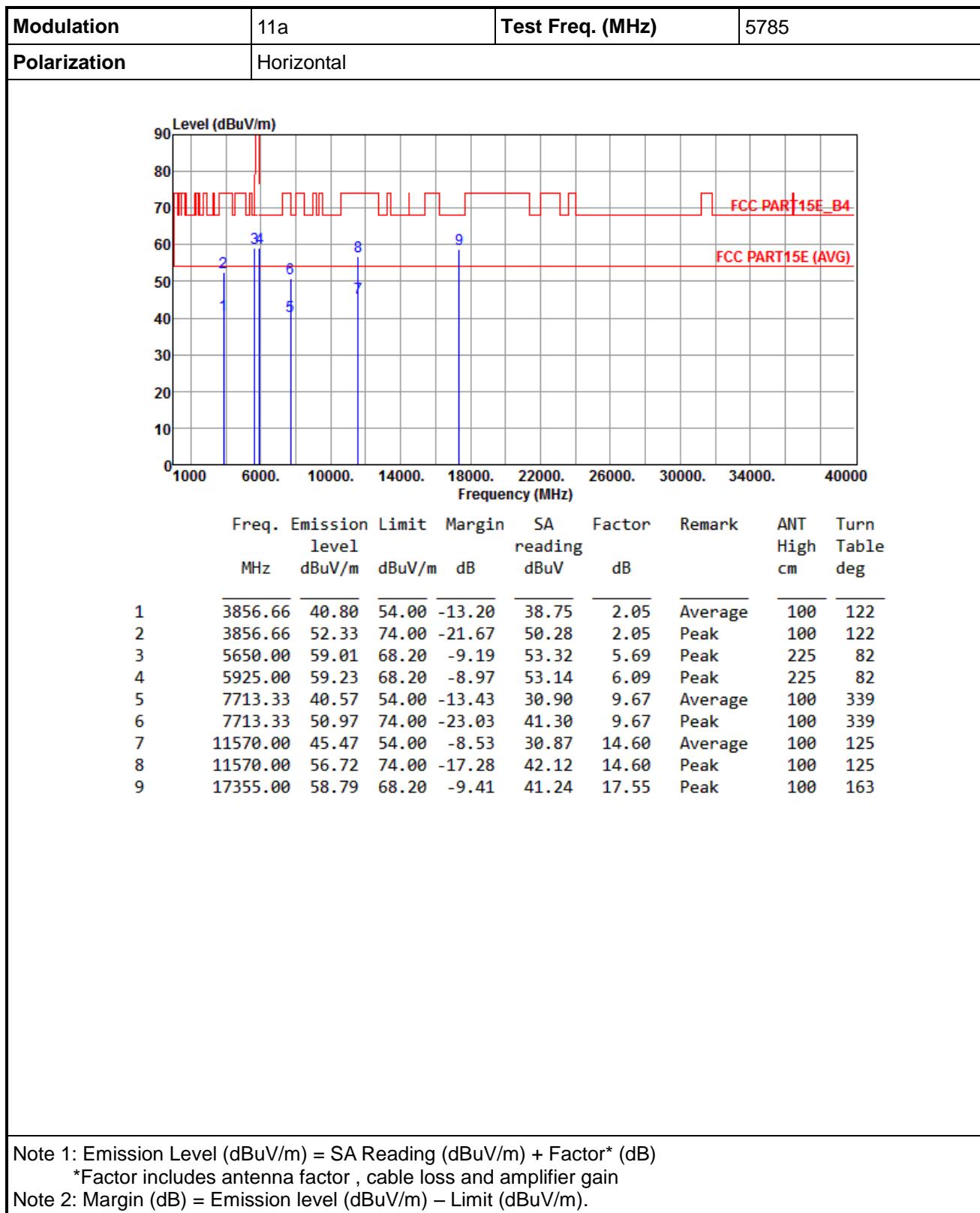
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745																																																																																									
Polarization	Vertical																																																																																											
																																																																																												
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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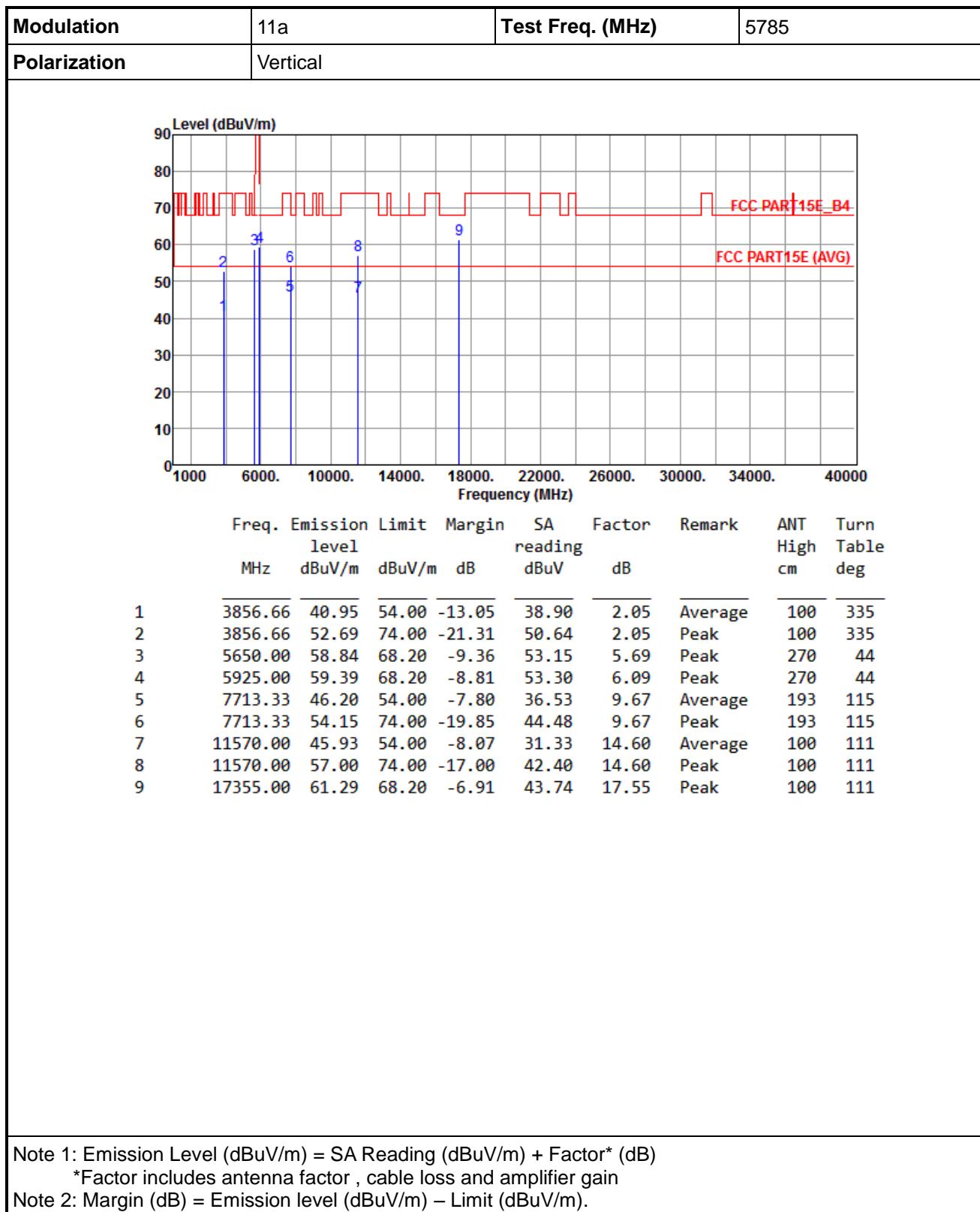
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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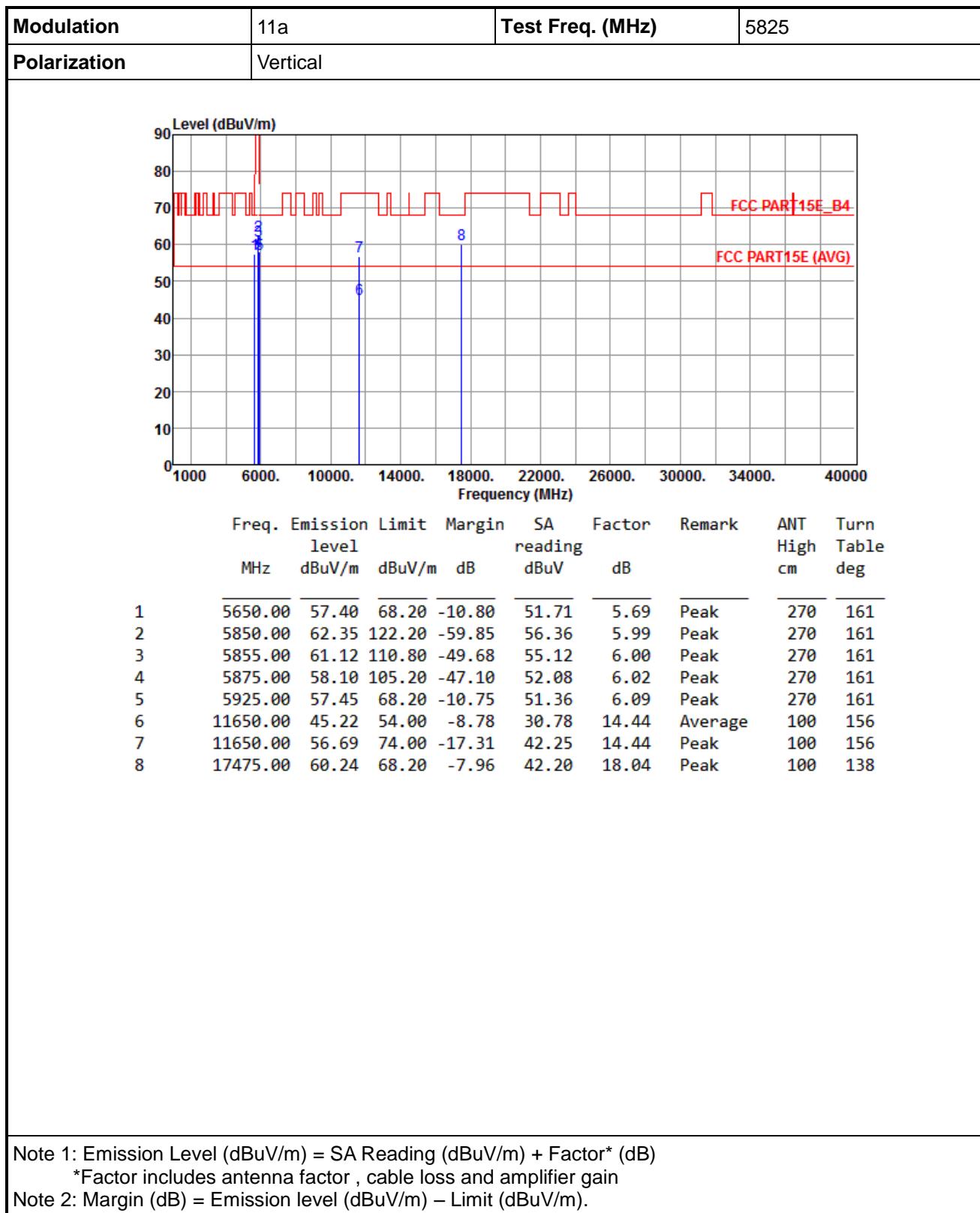


Modulation	11a	Test Freq. (MHz)	5825																																																																																									
Polarization	Horizontal																																																																																											
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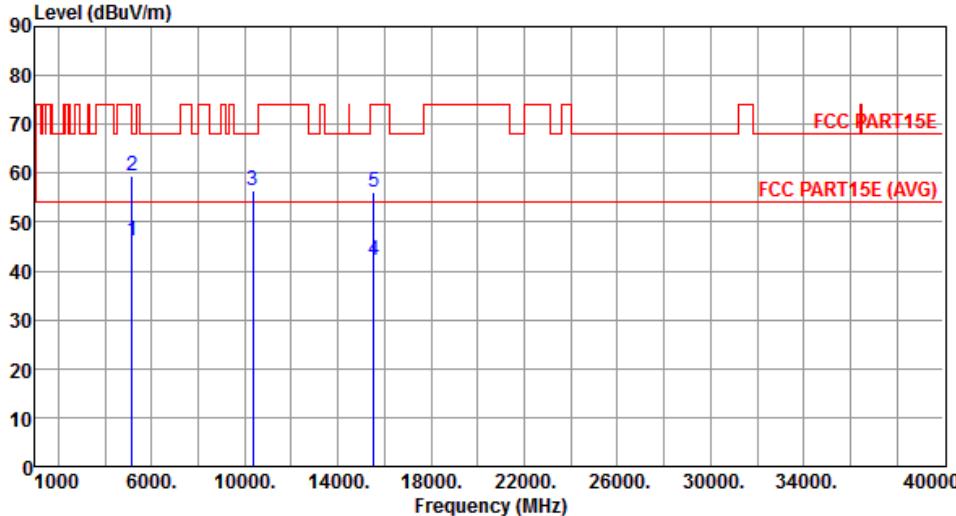
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

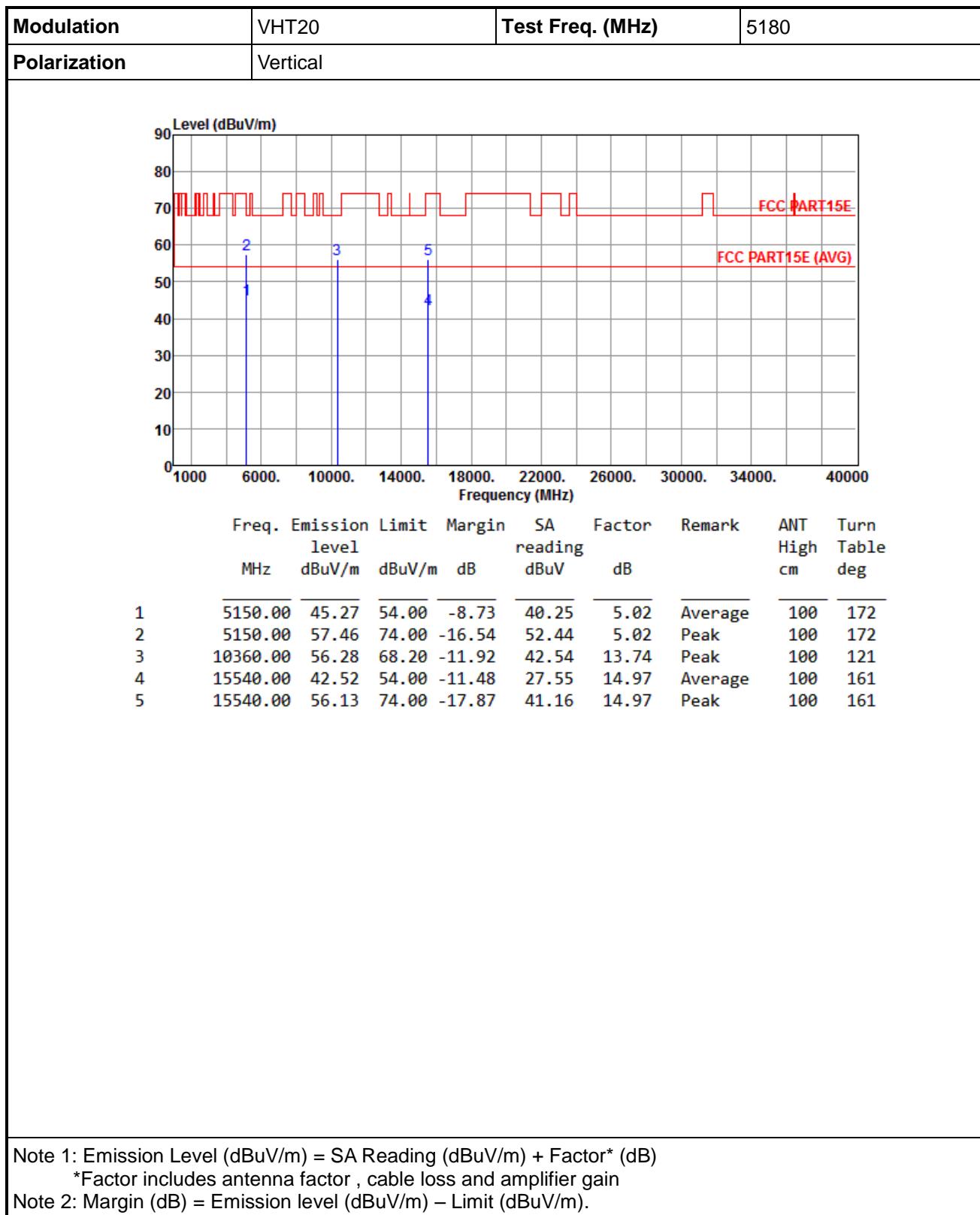
*Factor includes antenna factor , cable loss and amplifier gain

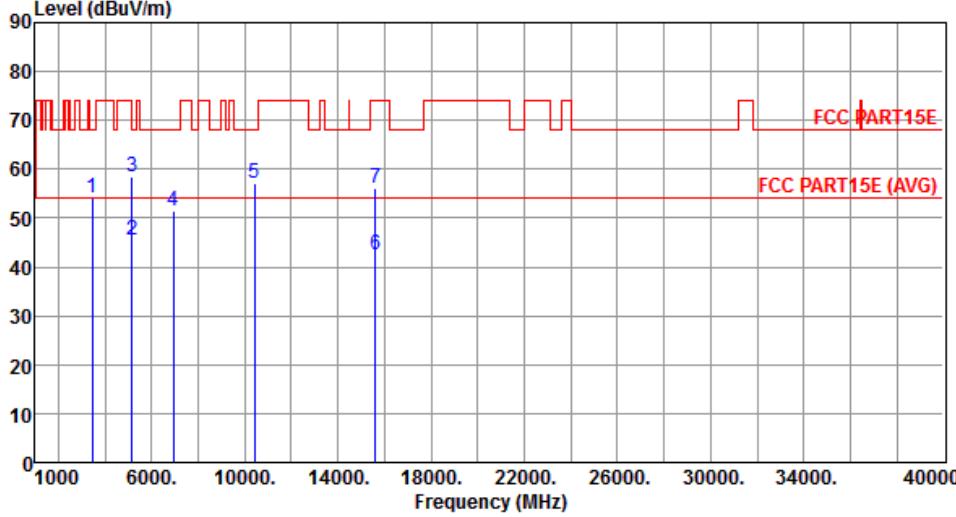
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



3.5.15 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.00</td><td>46.25</td><td>54.00</td><td>-7.75</td><td>41.23</td><td>5.02</td><td>Average</td><td>236</td><td>104</td></tr> <tr> <td>2</td><td>5150.00</td><td>59.45</td><td>74.00</td><td>-14.55</td><td>54.43</td><td>5.02</td><td>Peak</td><td>236</td><td>104</td></tr> <tr> <td>3</td><td>10360.00</td><td>56.60</td><td>68.20</td><td>-11.60</td><td>42.86</td><td>13.74</td><td>Peak</td><td>100</td><td>98</td></tr> <tr> <td>4</td><td>15540.00</td><td>42.28</td><td>54.00</td><td>-11.72</td><td>27.31</td><td>14.97</td><td>Average</td><td>100</td><td>185</td></tr> <tr> <td>5</td><td>15540.00</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>41.23</td><td>14.97</td><td>Peak</td><td>100</td><td>185</td></tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	46.25	54.00	-7.75	41.23	5.02	Average	236	104	2	5150.00	59.45	74.00	-14.55	54.43	5.02	Peak	236	104	3	10360.00	56.60	68.20	-11.60	42.86	13.74	Peak	100	98	4	15540.00	42.28	54.00	-11.72	27.31	14.97	Average	100	185	5	15540.00	56.20	74.00	-17.80	41.23	14.97	Peak	100	185
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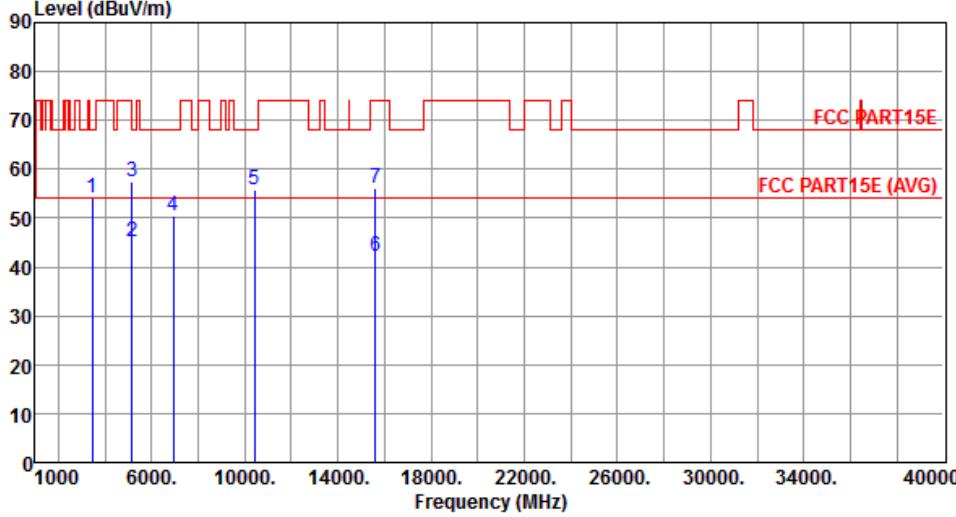


Modulation	VHT20	Test Freq. (MHz)	5200																																																																								
Polarization	Horizontal																																																																										
																																																																											
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

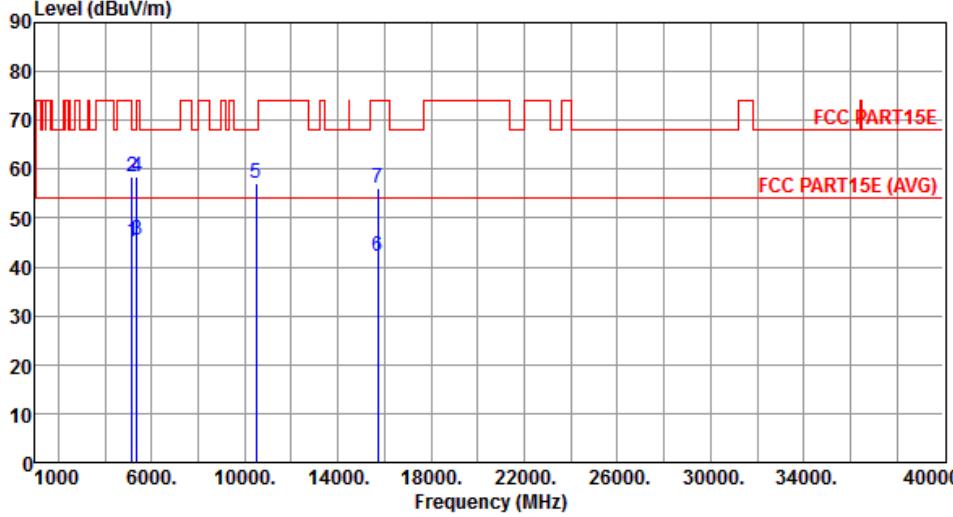
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5200																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

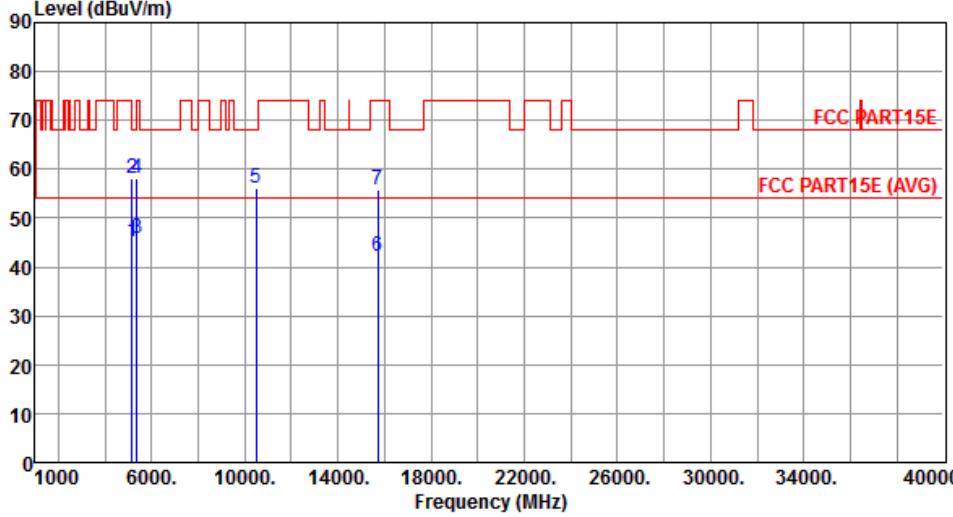
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Modulation	VHT20	Test Freq. (MHz)	5240																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

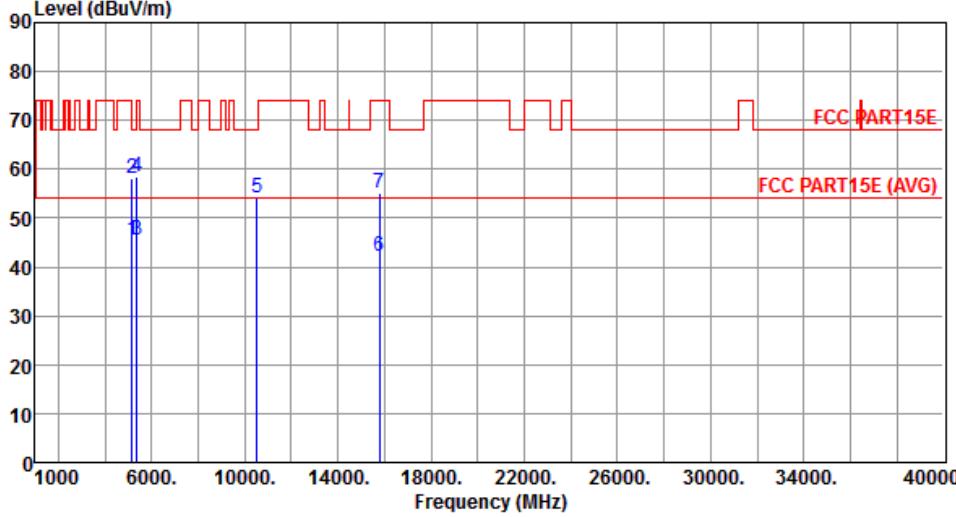
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5240																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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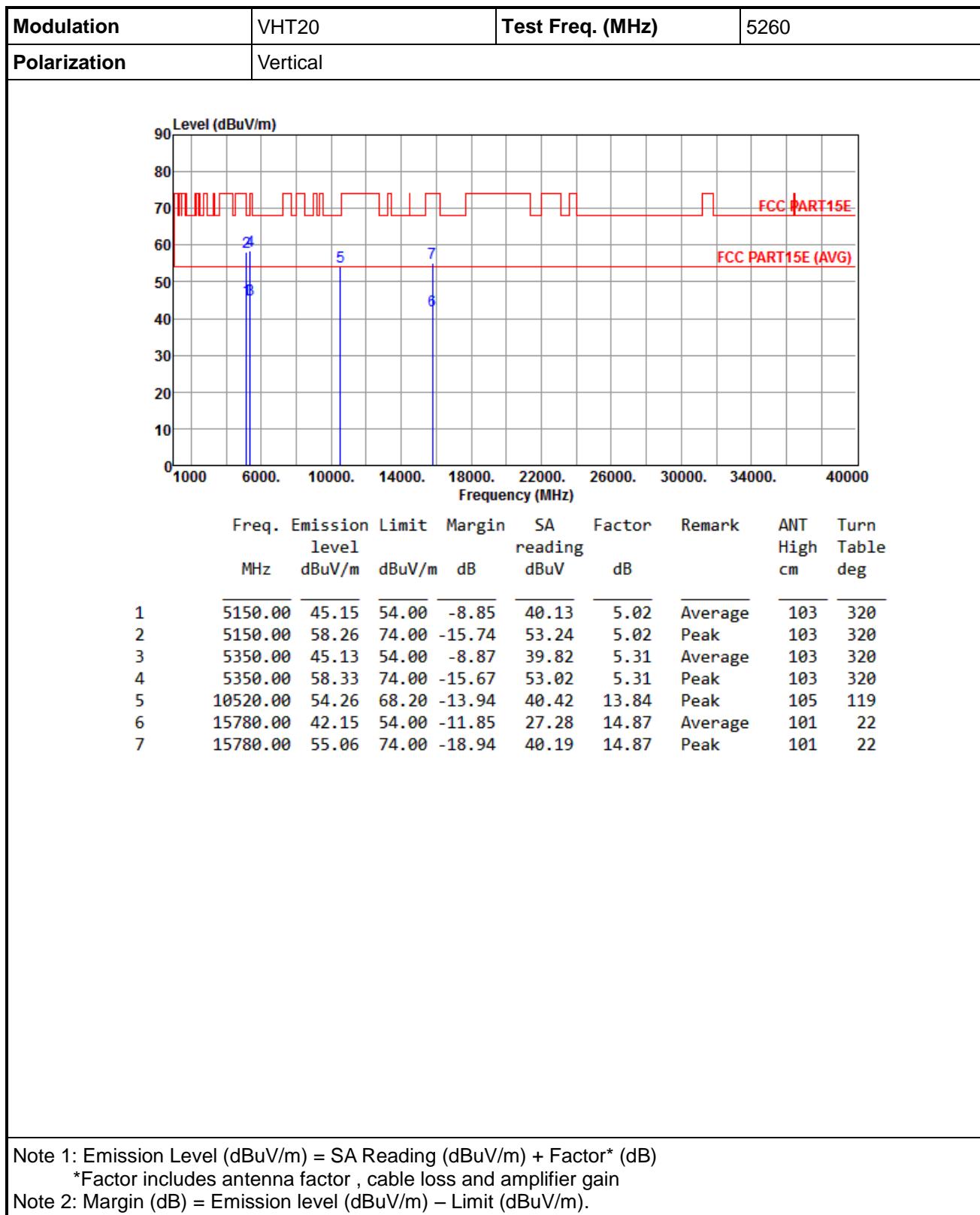
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

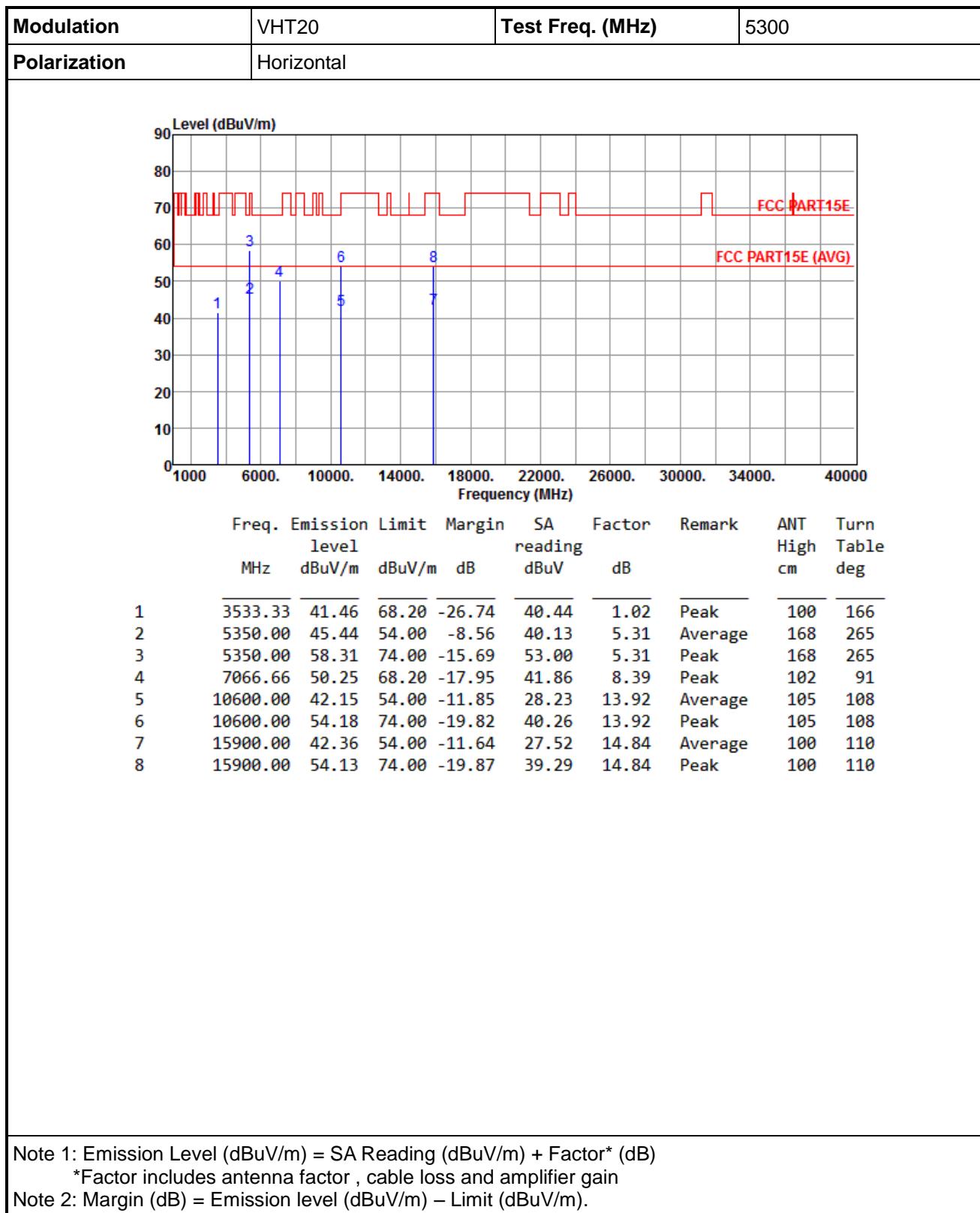
Modulation	VHT20	Test Freq. (MHz)	5260																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

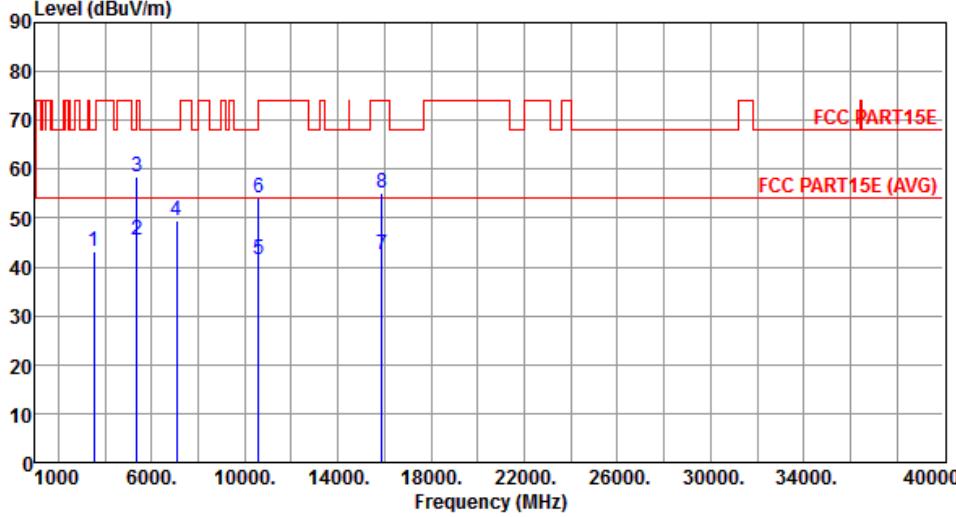




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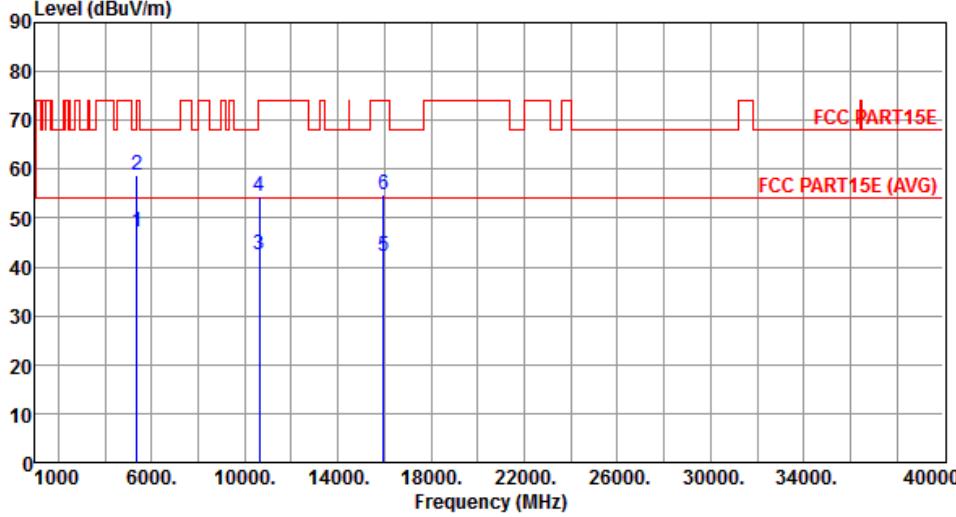
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5 10600.00	41.55	54.00	-12.45	27.63	13.92	Average	100	133																																																																												
6 10600.00	54.23	74.00	-19.77	40.31	13.92	Peak	100	133																																																																												
7 15900.00	42.48	54.00	-11.52	27.64	14.84	Average	109	145																																																																												
8 15900.00	55.21	74.00	-18.79	40.37	14.84	Peak	109	145																																																																												

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

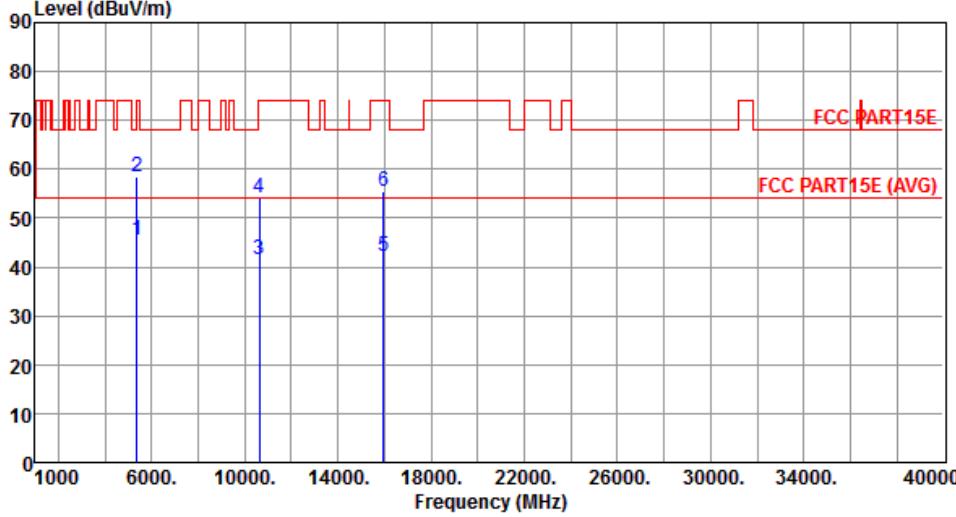
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

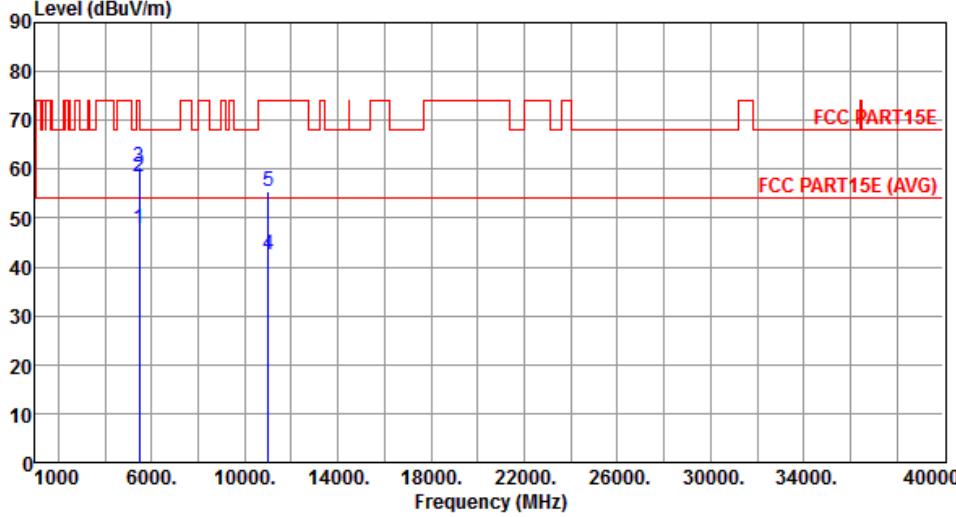
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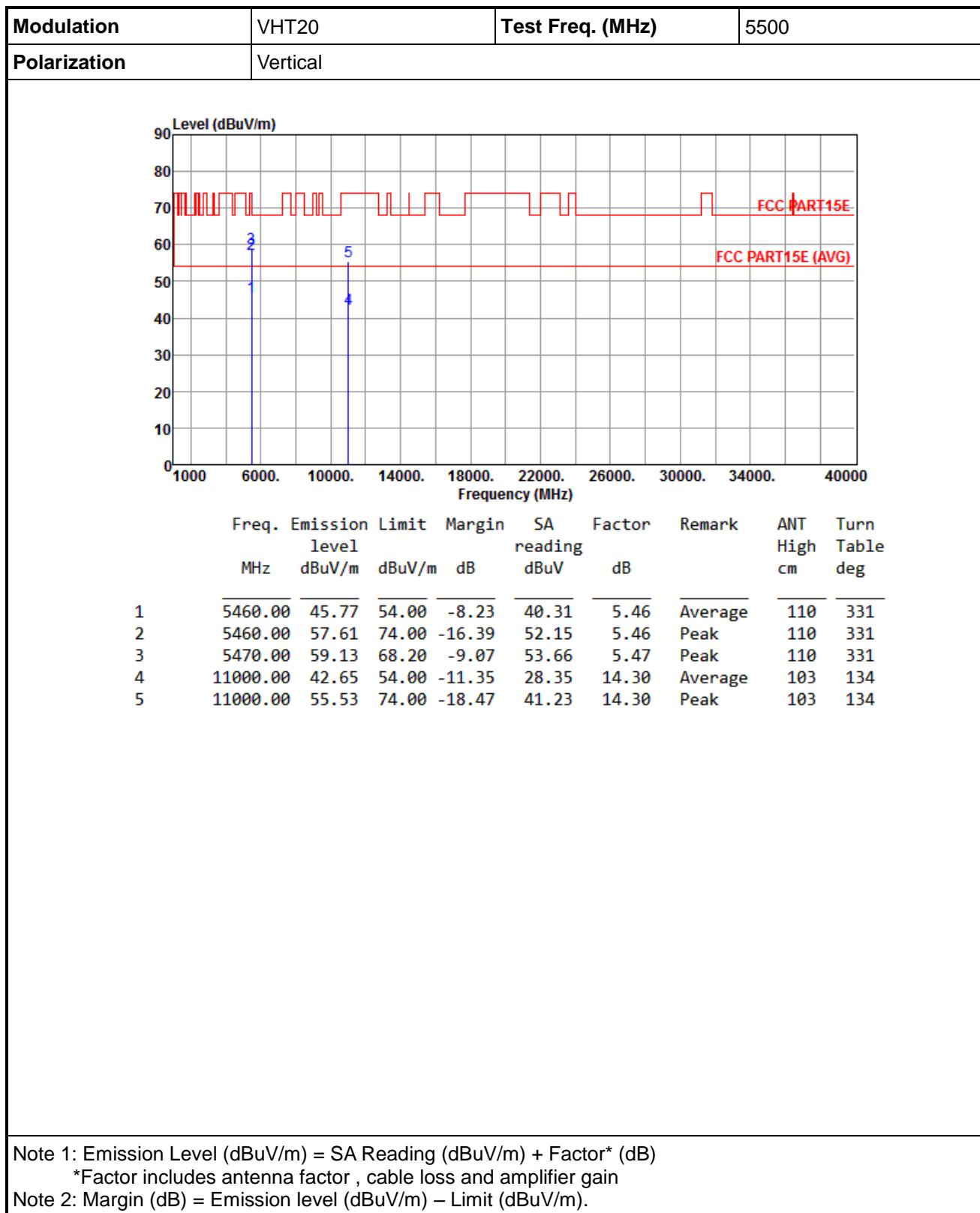
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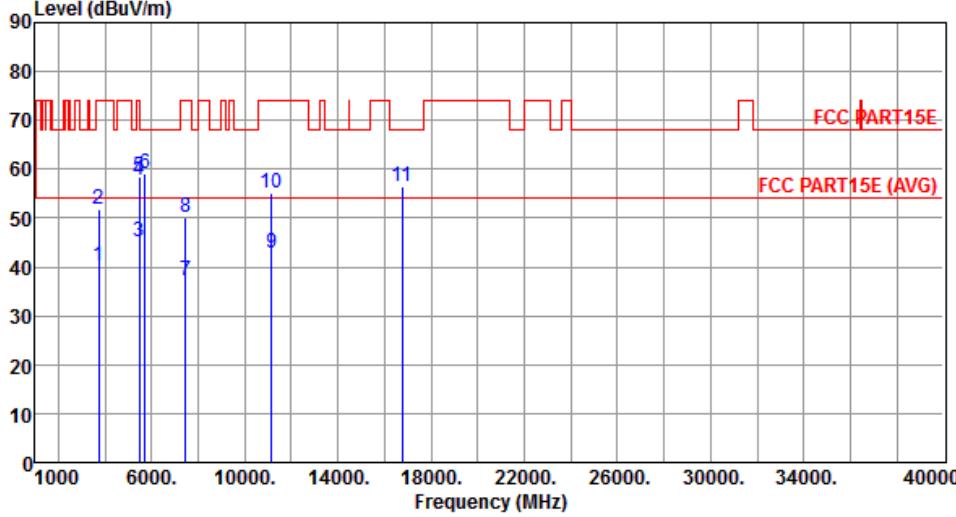
Modulation	VHT20	Test Freq. (MHz)	5500																																																											
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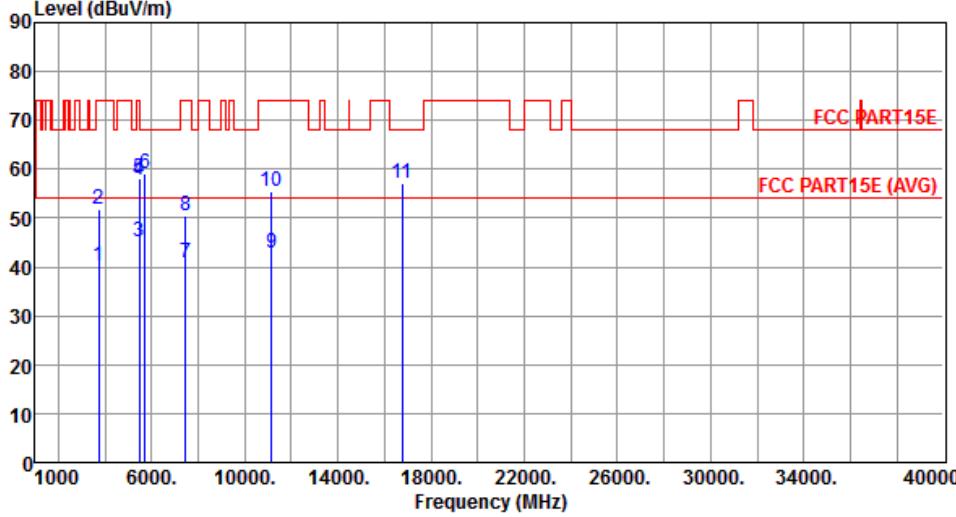
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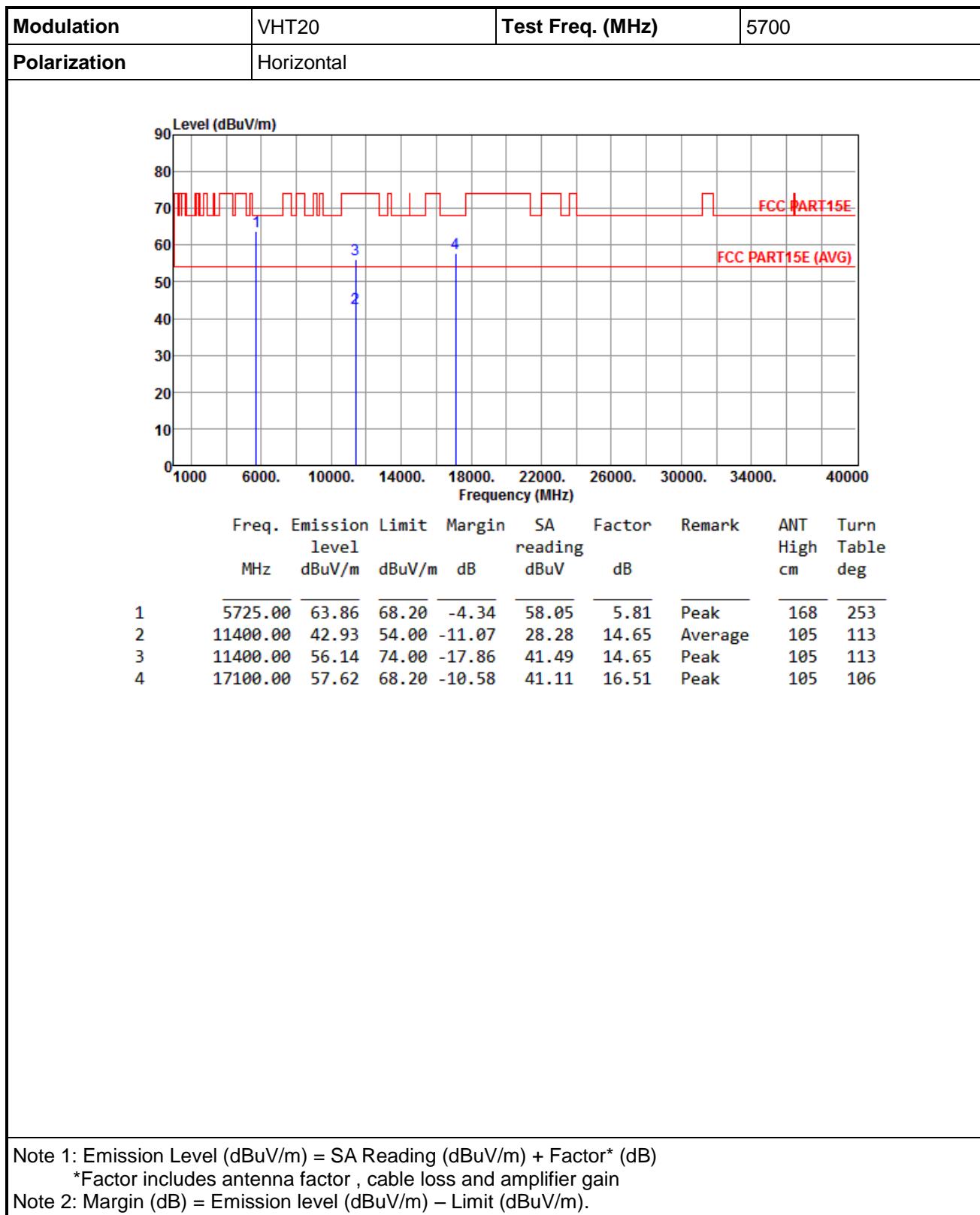
*Factor includes antenna factor , cable loss and amplifier gain

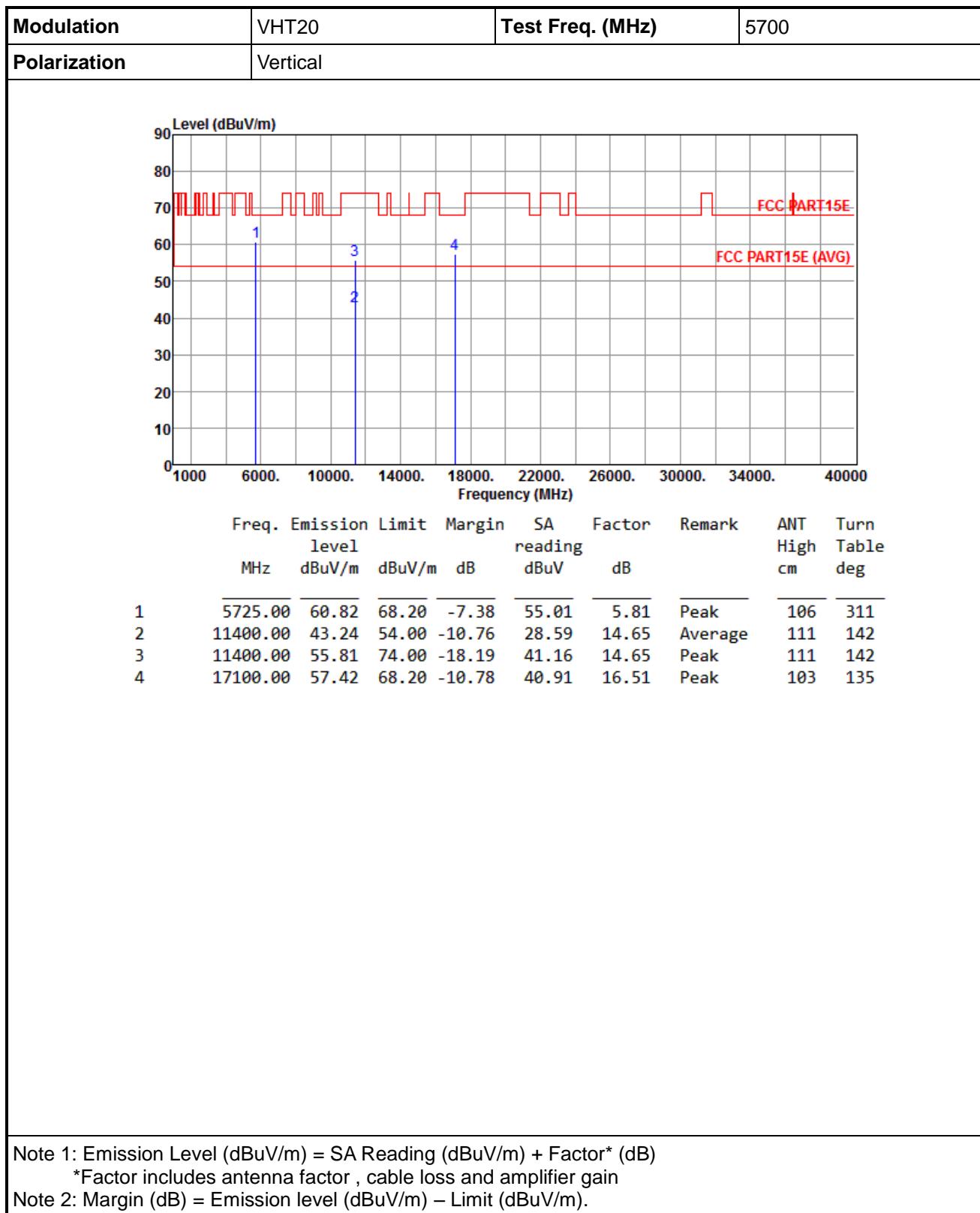
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

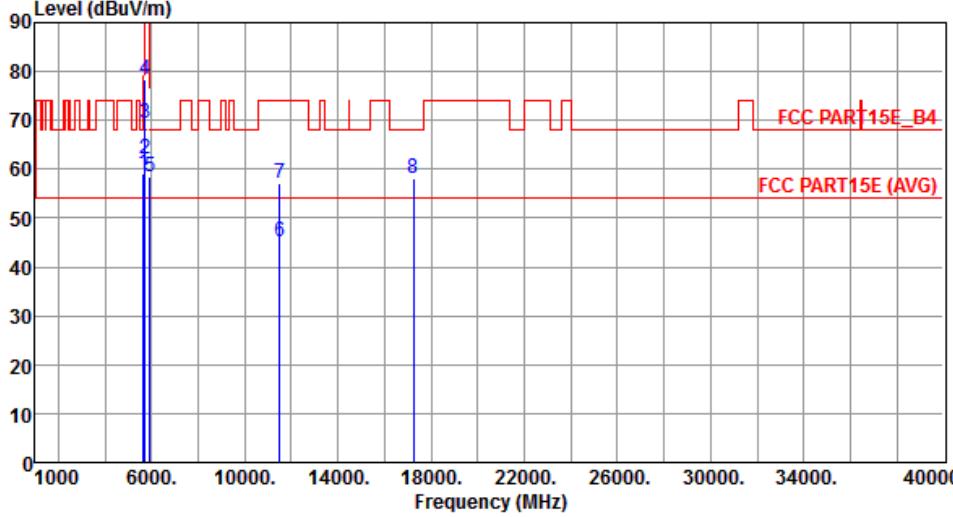


Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																																							
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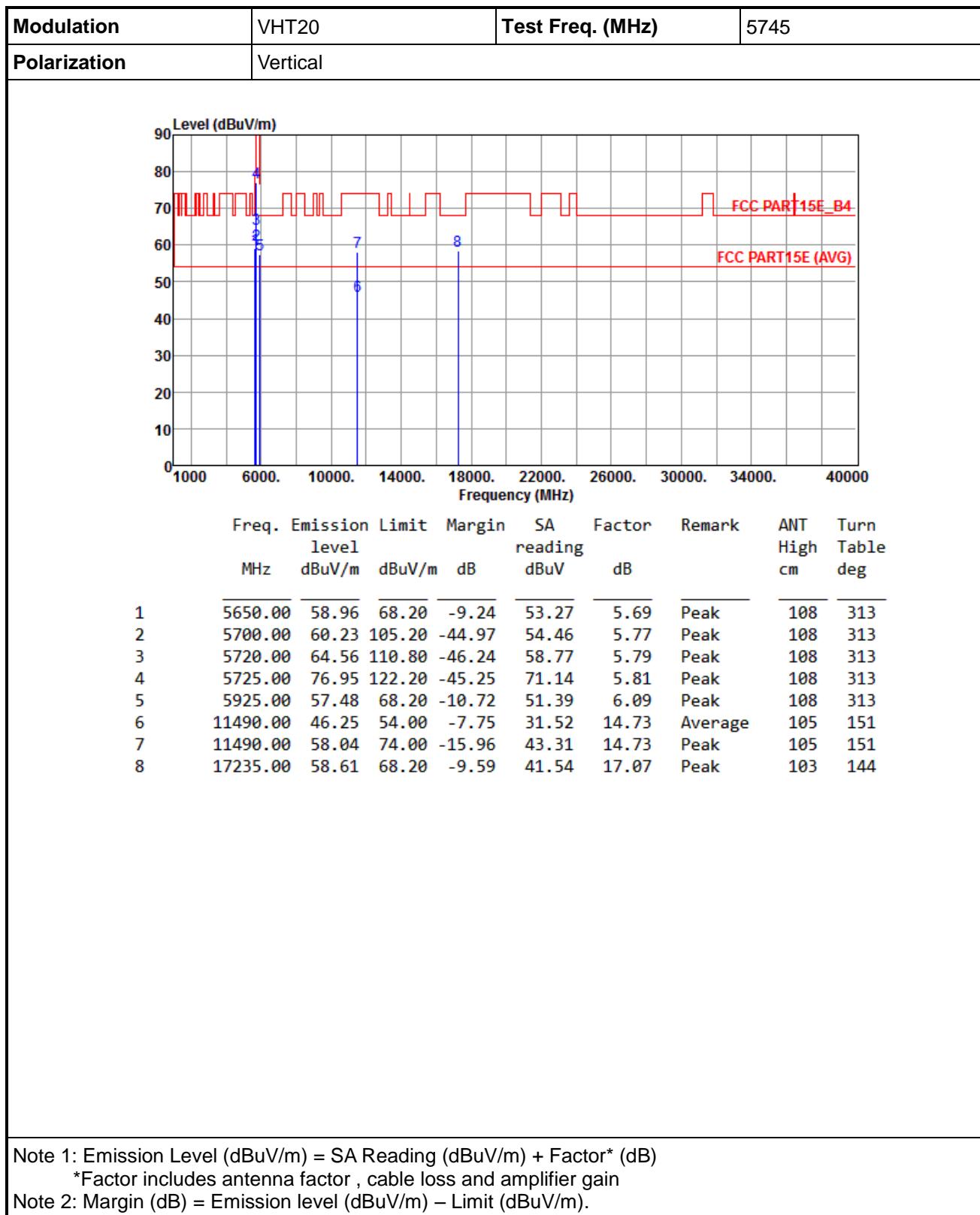


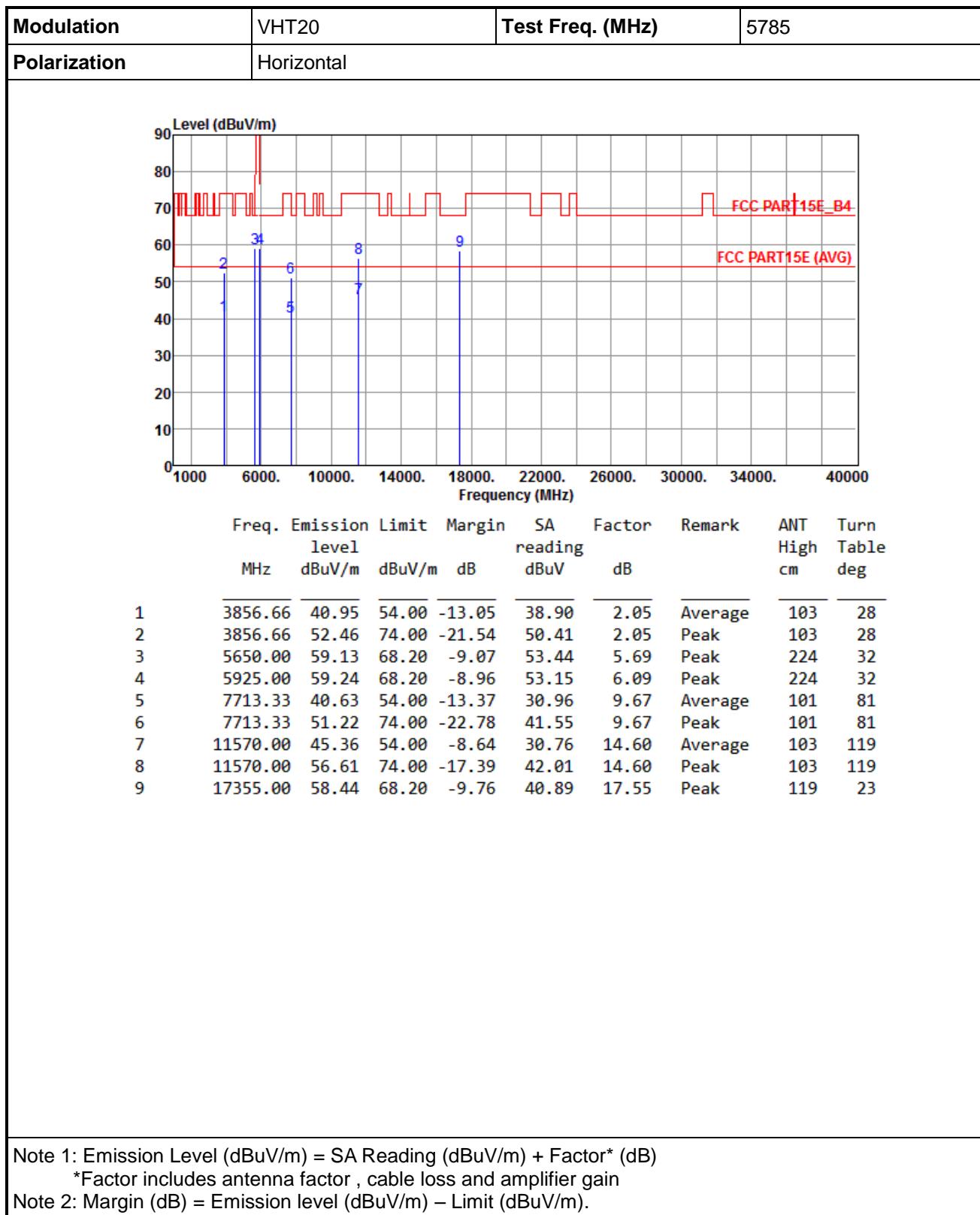
Modulation	VHT20	Test Freq. (MHz)	5745																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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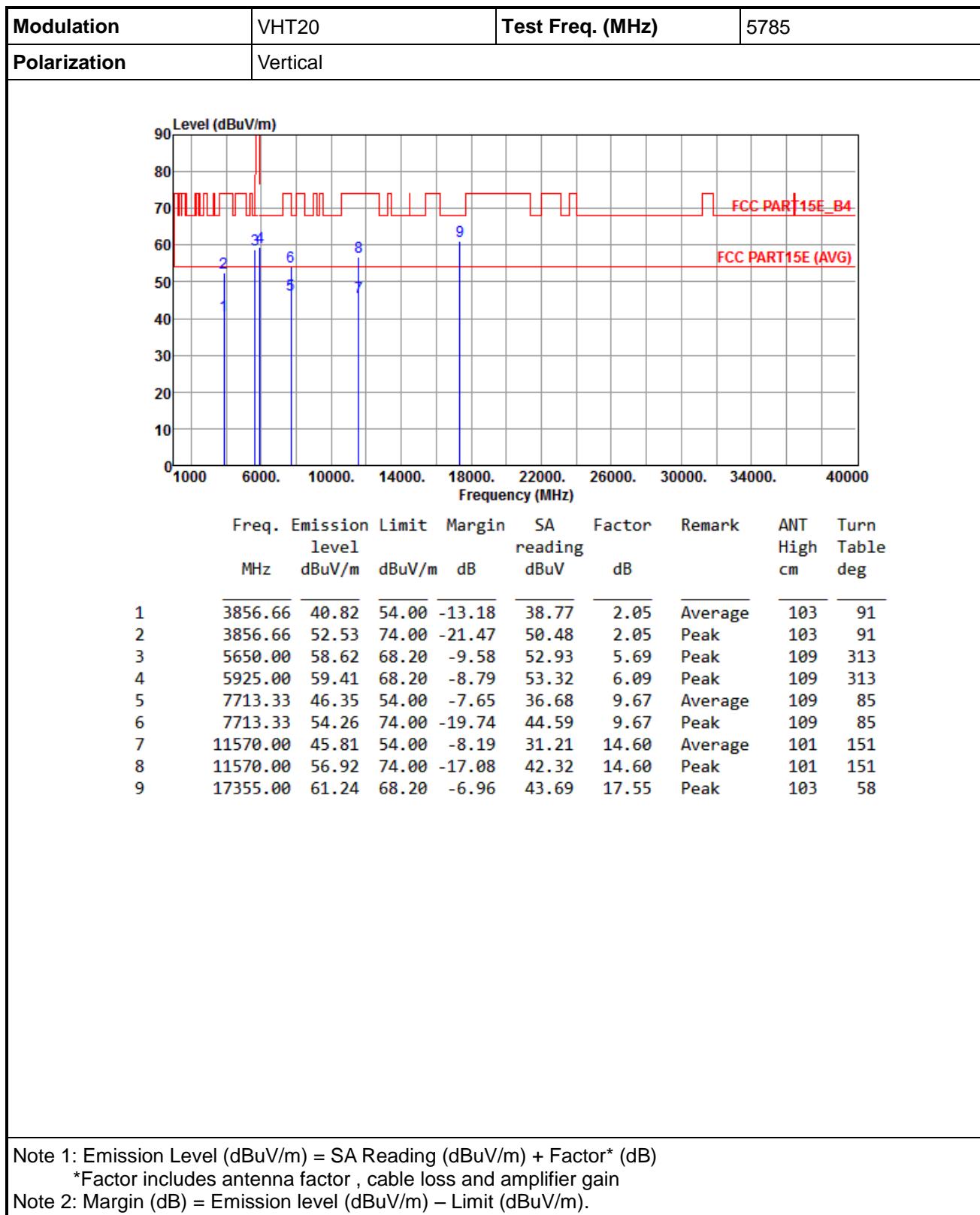
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

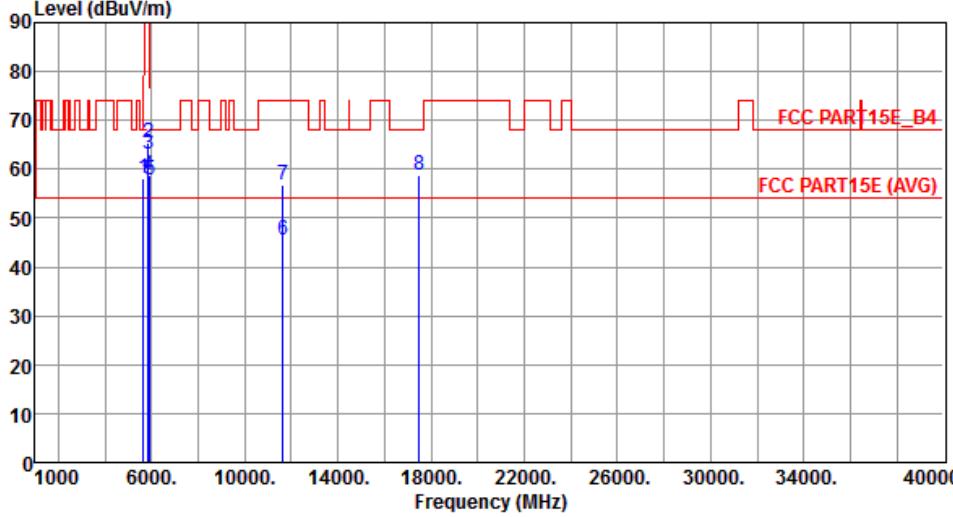
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





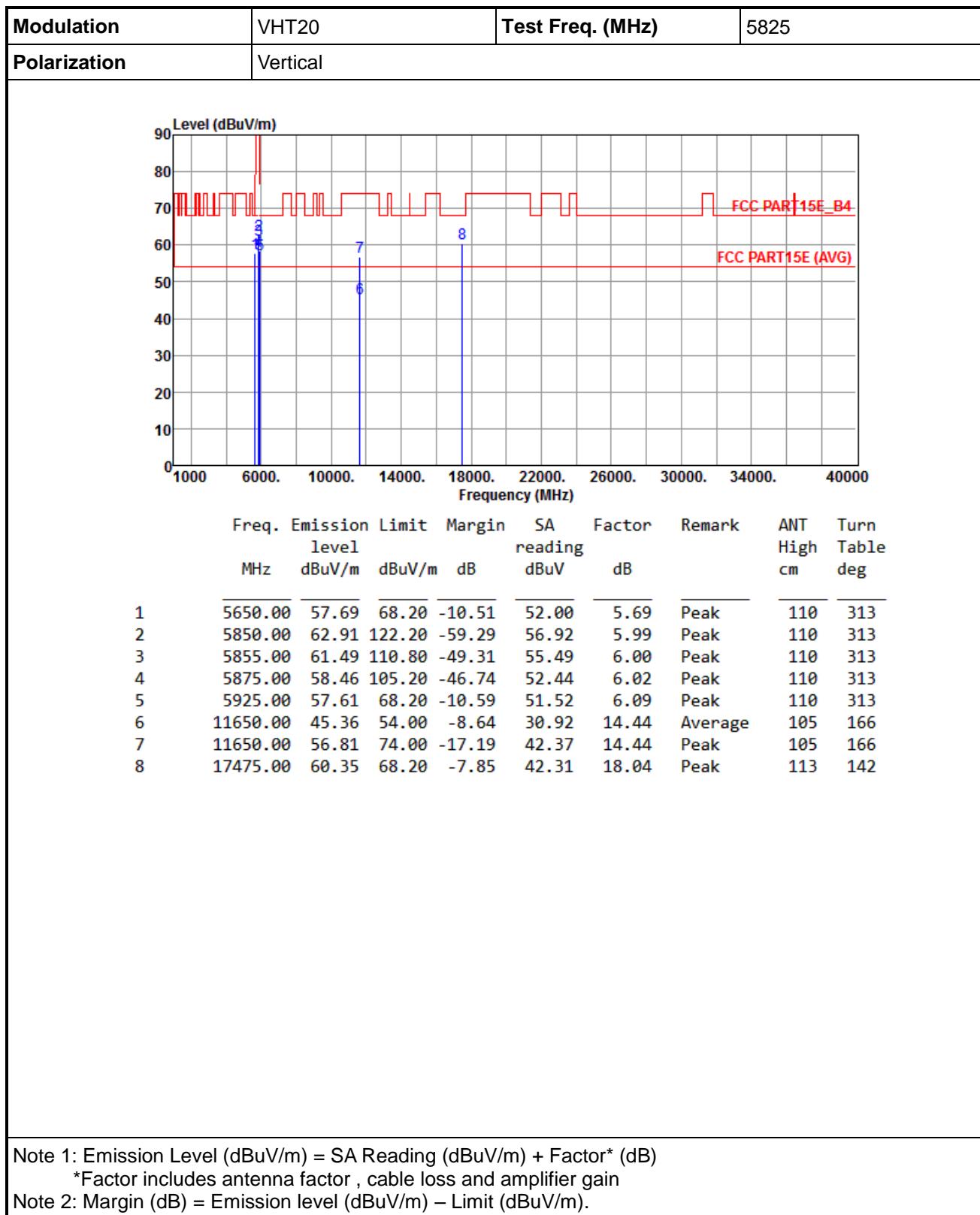


Modulation	VHT20	Test Freq. (MHz)	5825																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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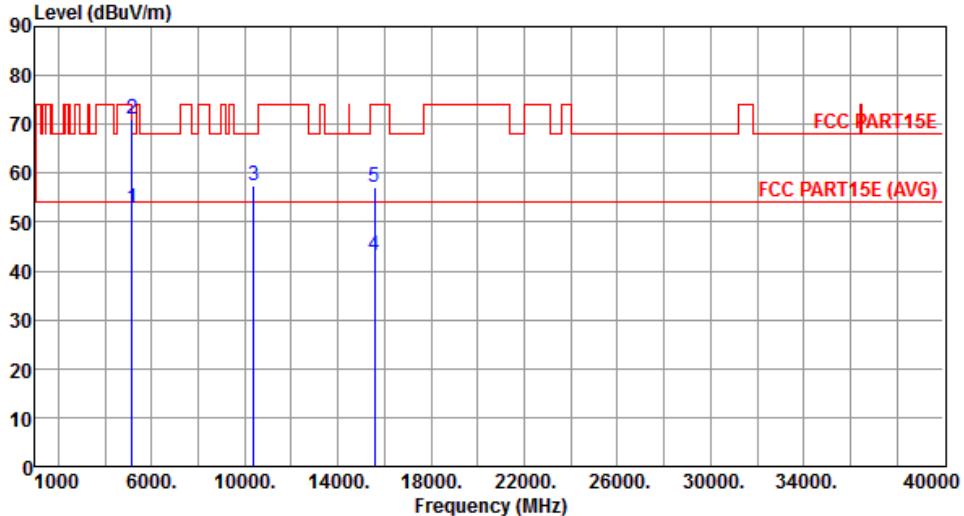
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

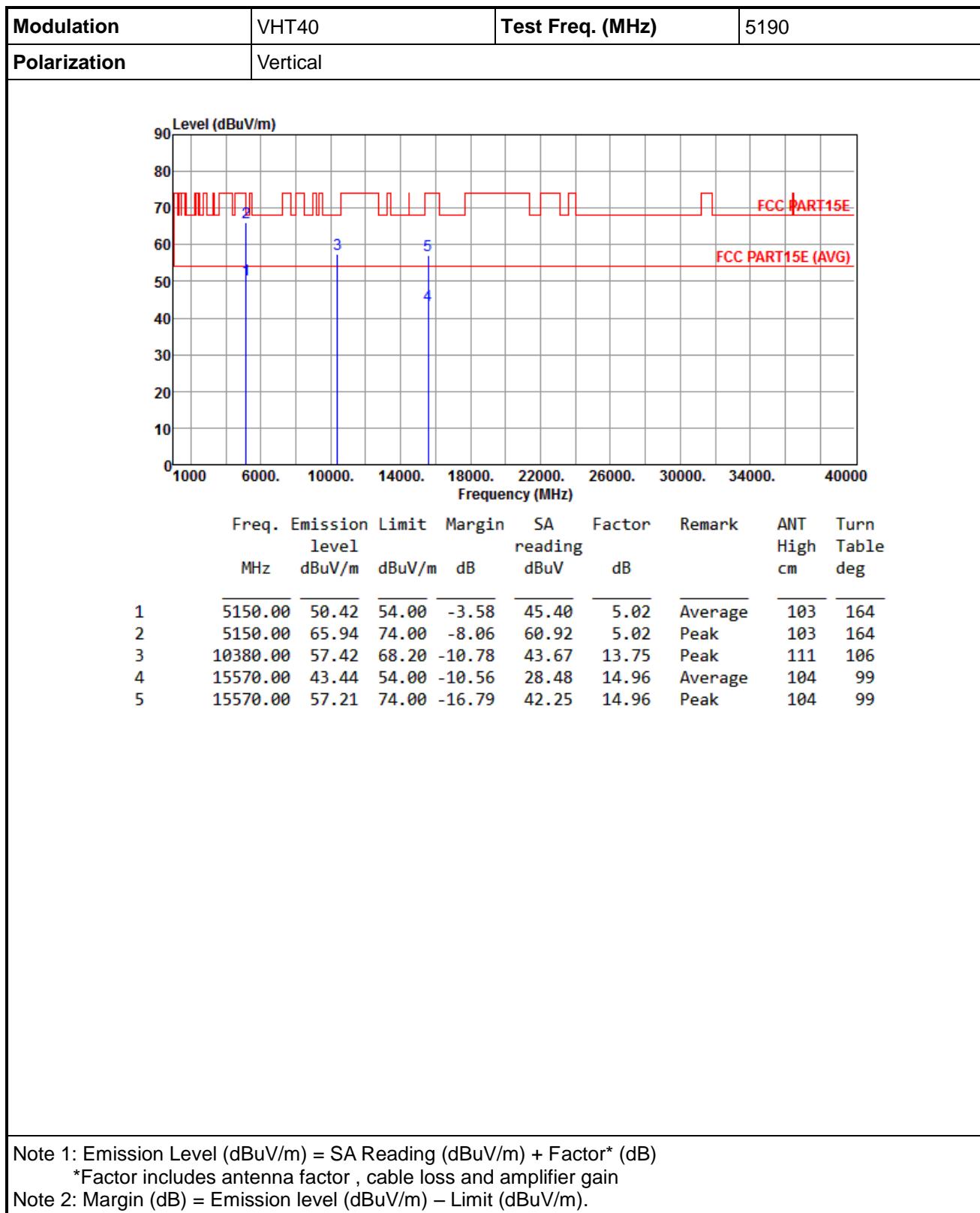
*Factor includes antenna factor , cable loss and amplifier gain

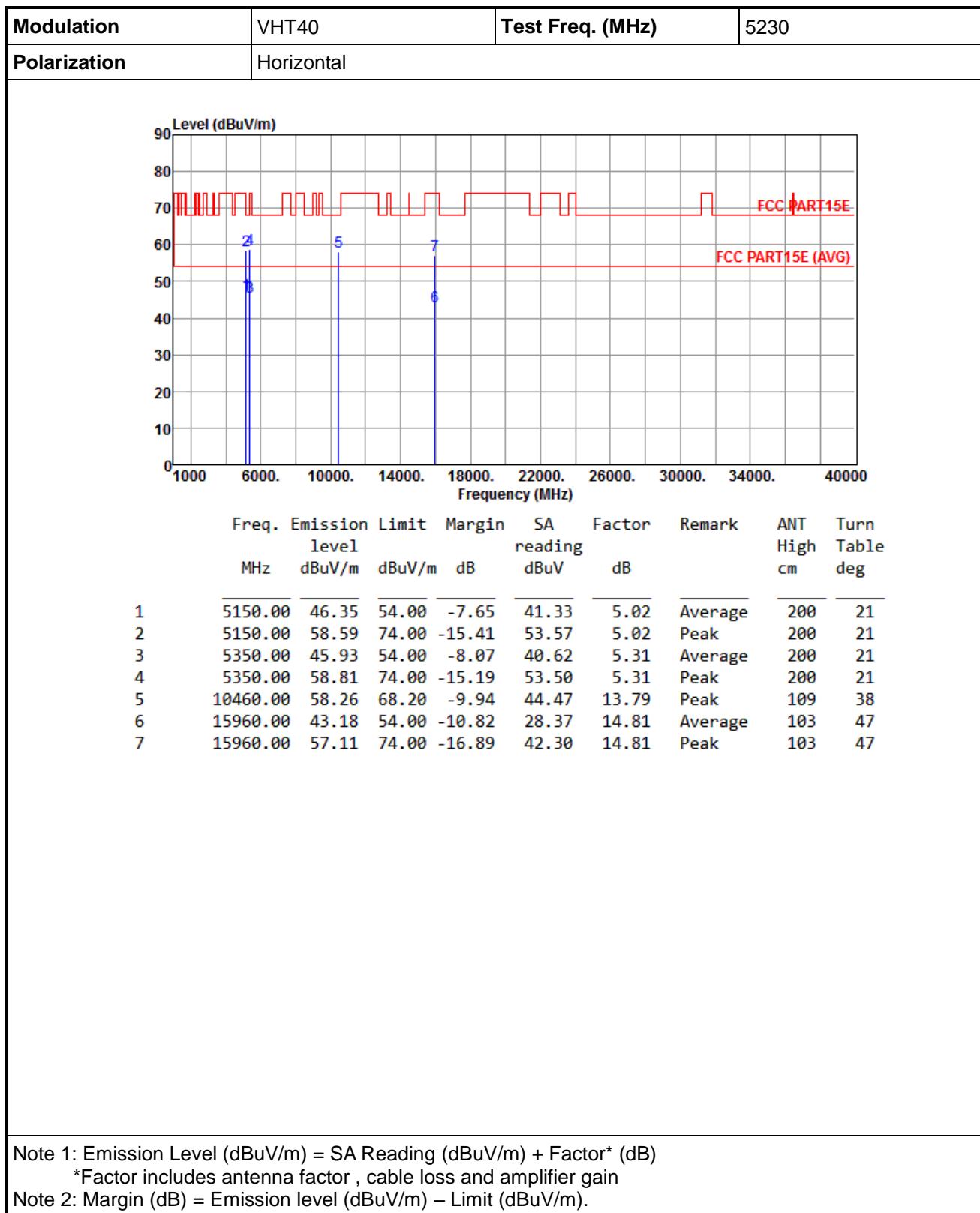
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

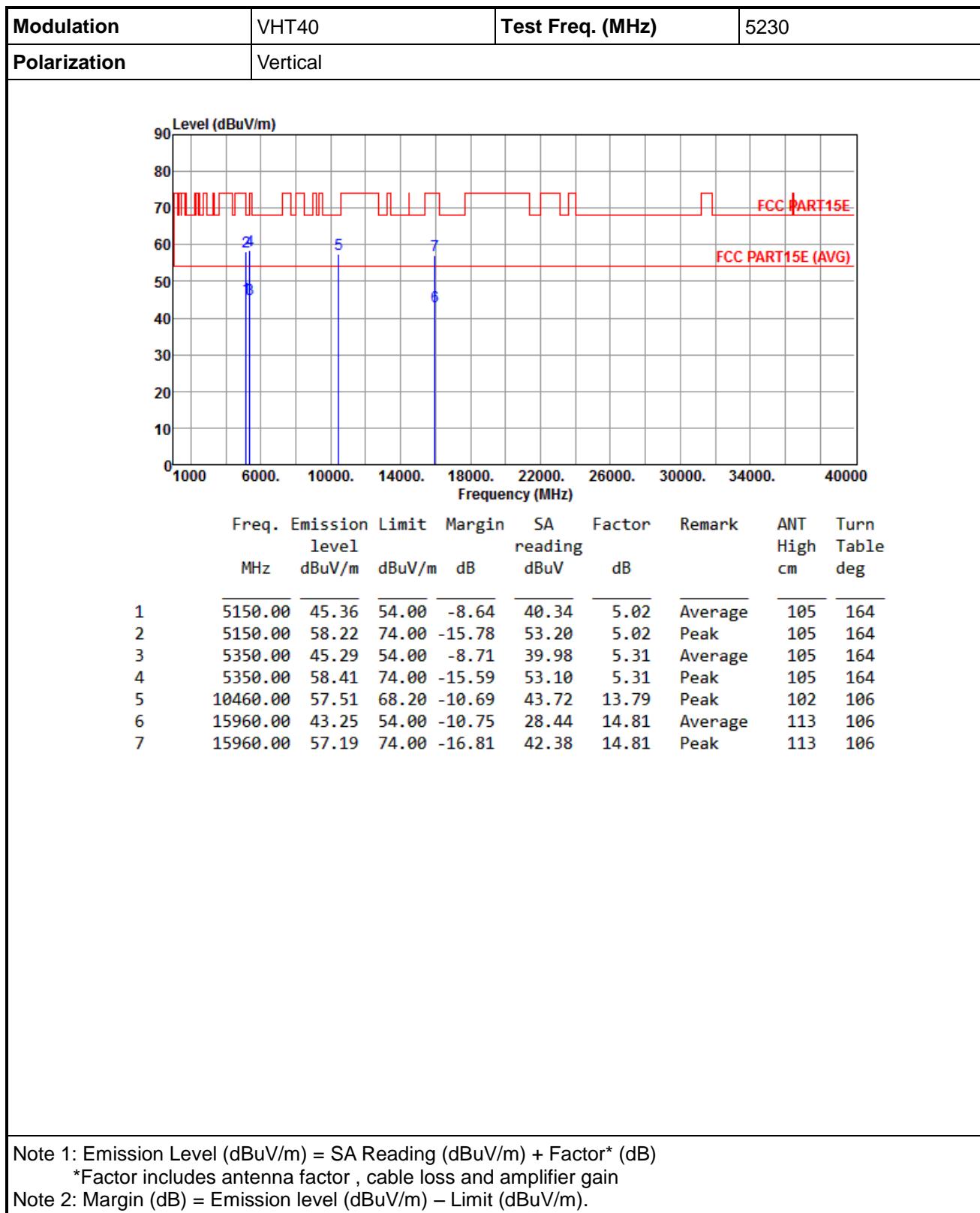


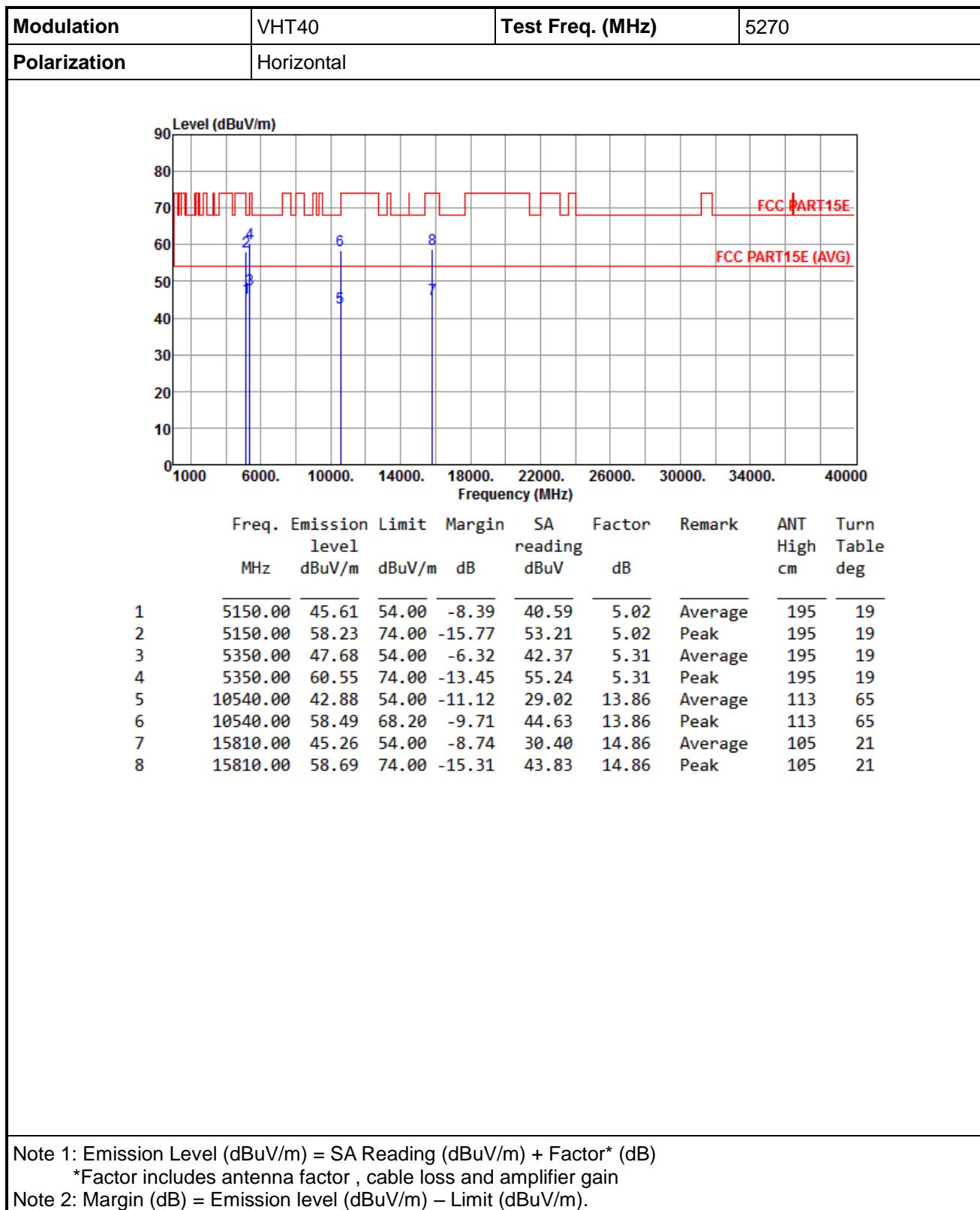
3.5.16 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

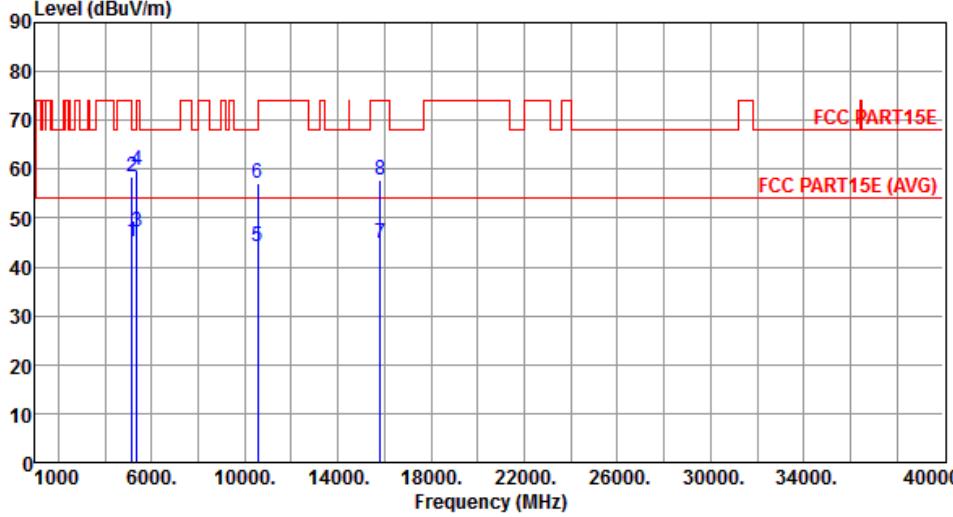
Modulation	VHT40	Test Freq. (MHz)	5190																																																											
Polarization	Horizontal																																																													
																																																														
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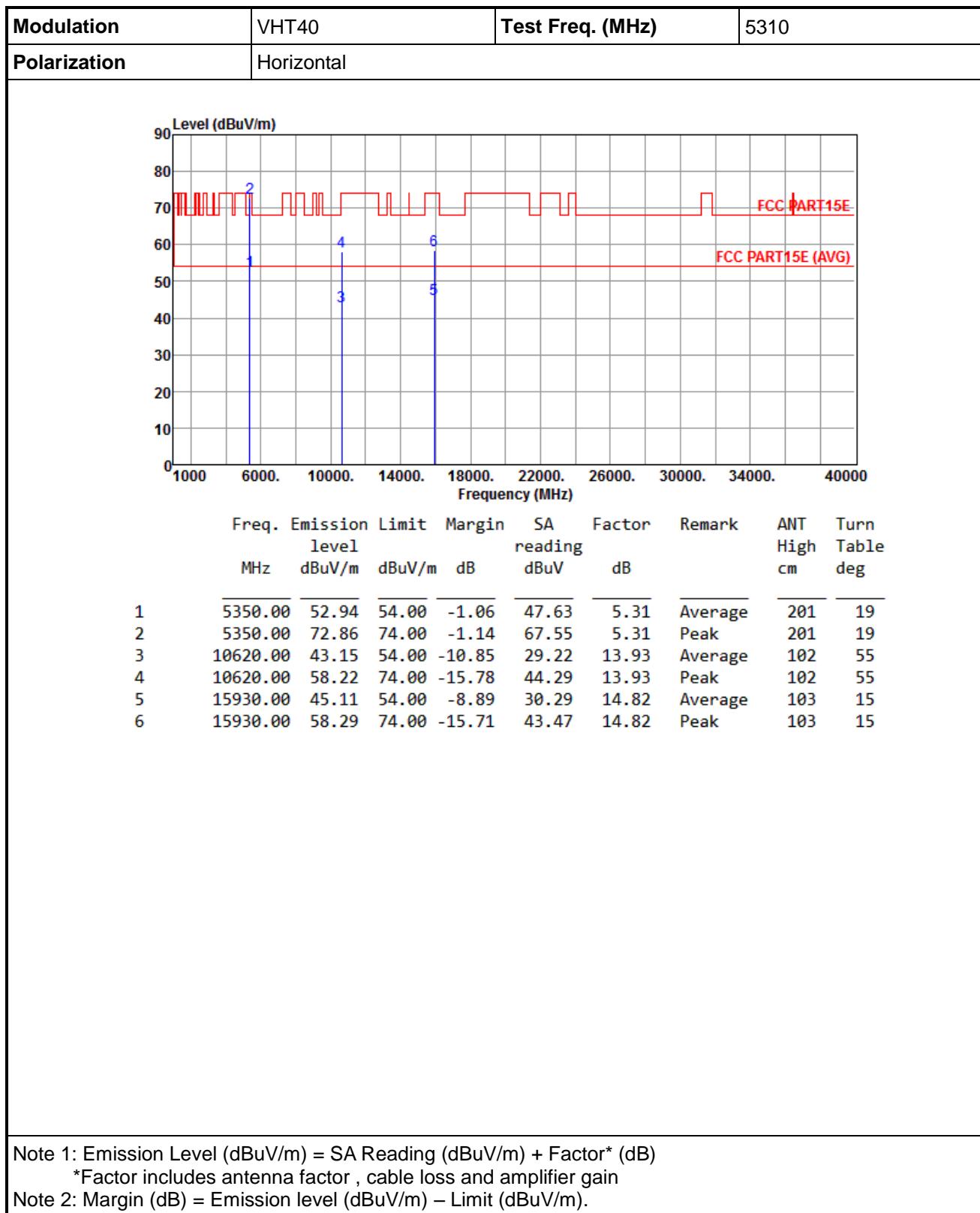


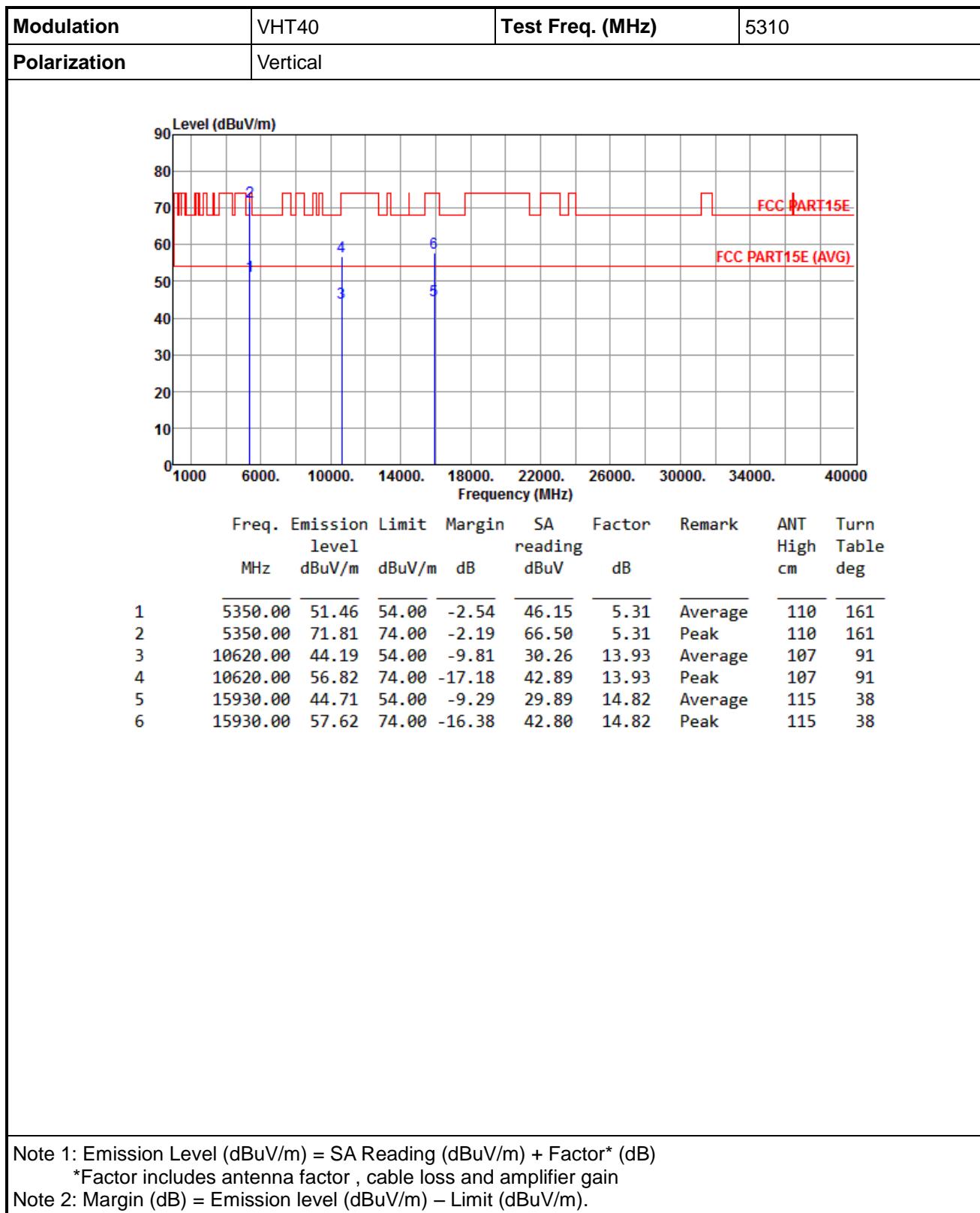
Modulation	VHT40	Test Freq. (MHz)	5270																																																																																	
Polarization	Vertical																																																																																			
																																																																																				
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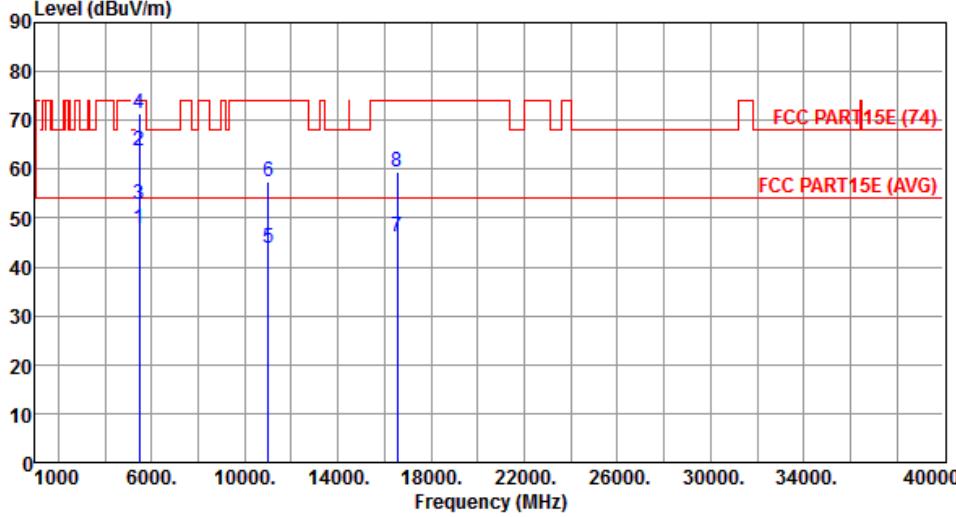
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



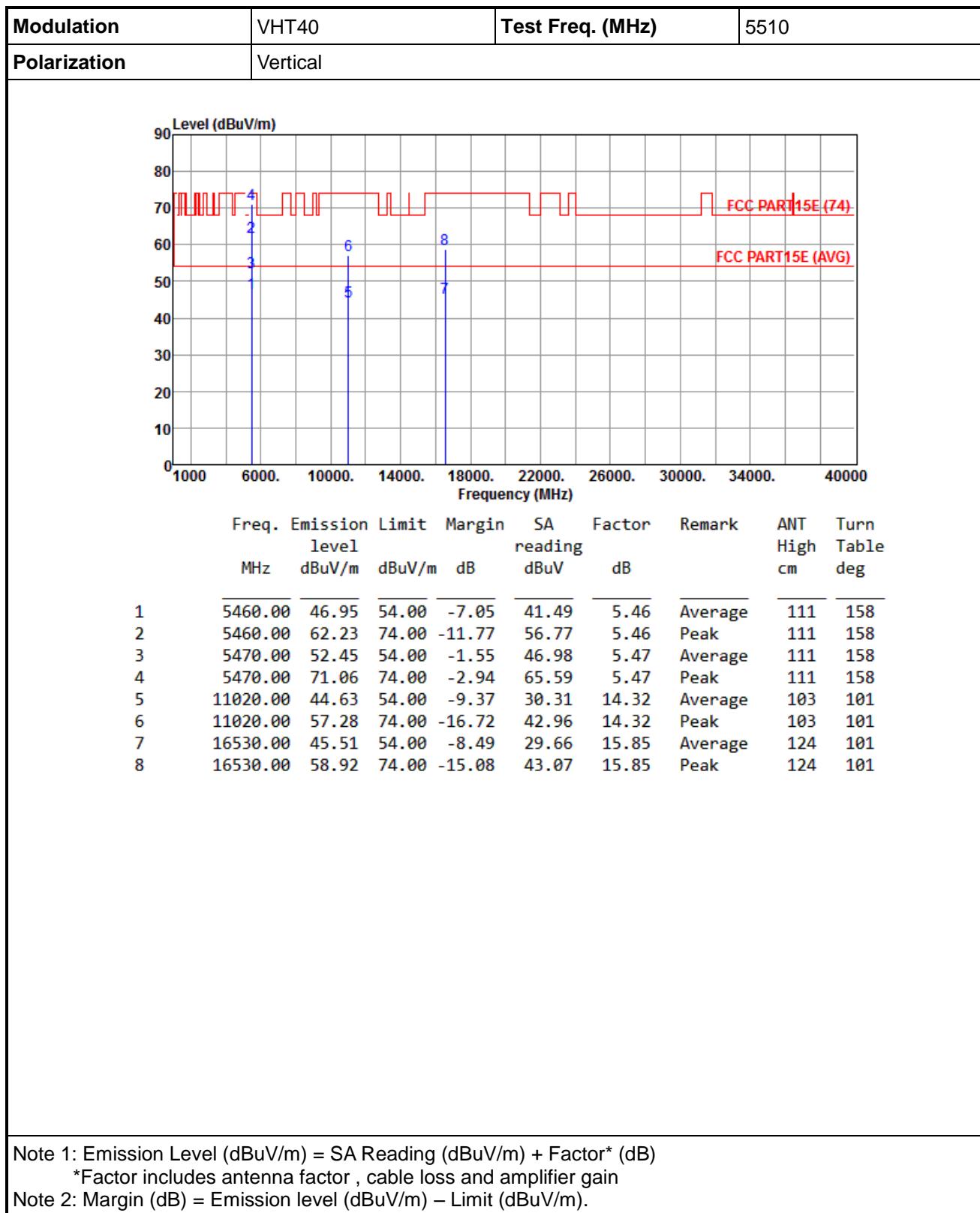


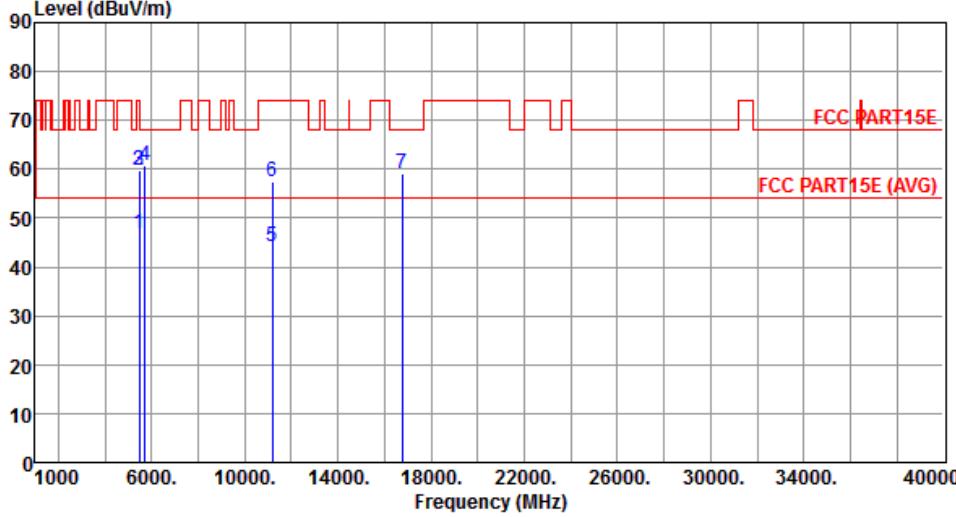
Modulation	VHT40	Test Freq. (MHz)	5510																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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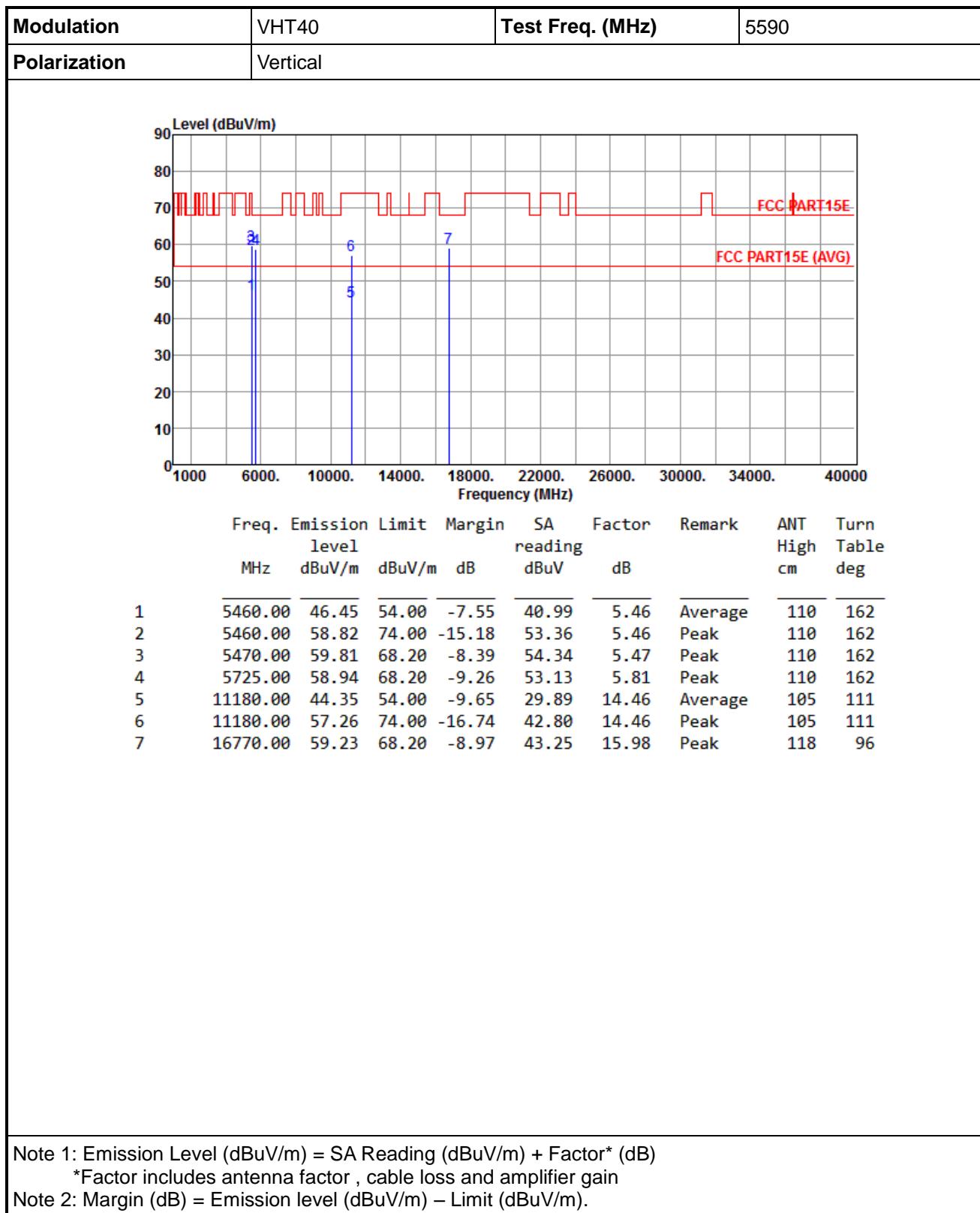


Modulation	VHT40	Test Freq. (MHz)	5590																																																																															
Polarization	Horizontal																																																																																	
																																																																																		
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*Factor includes antenna factor , cable loss and amplifier gain

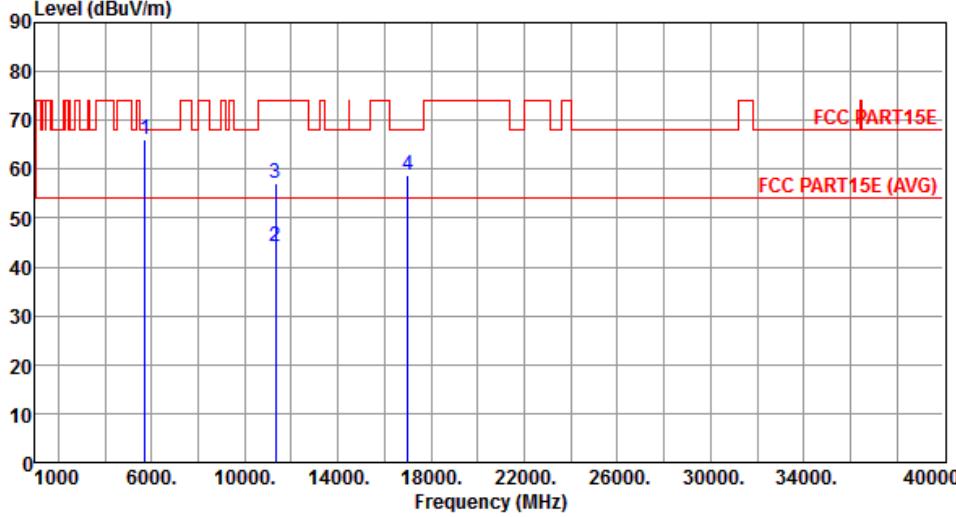
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



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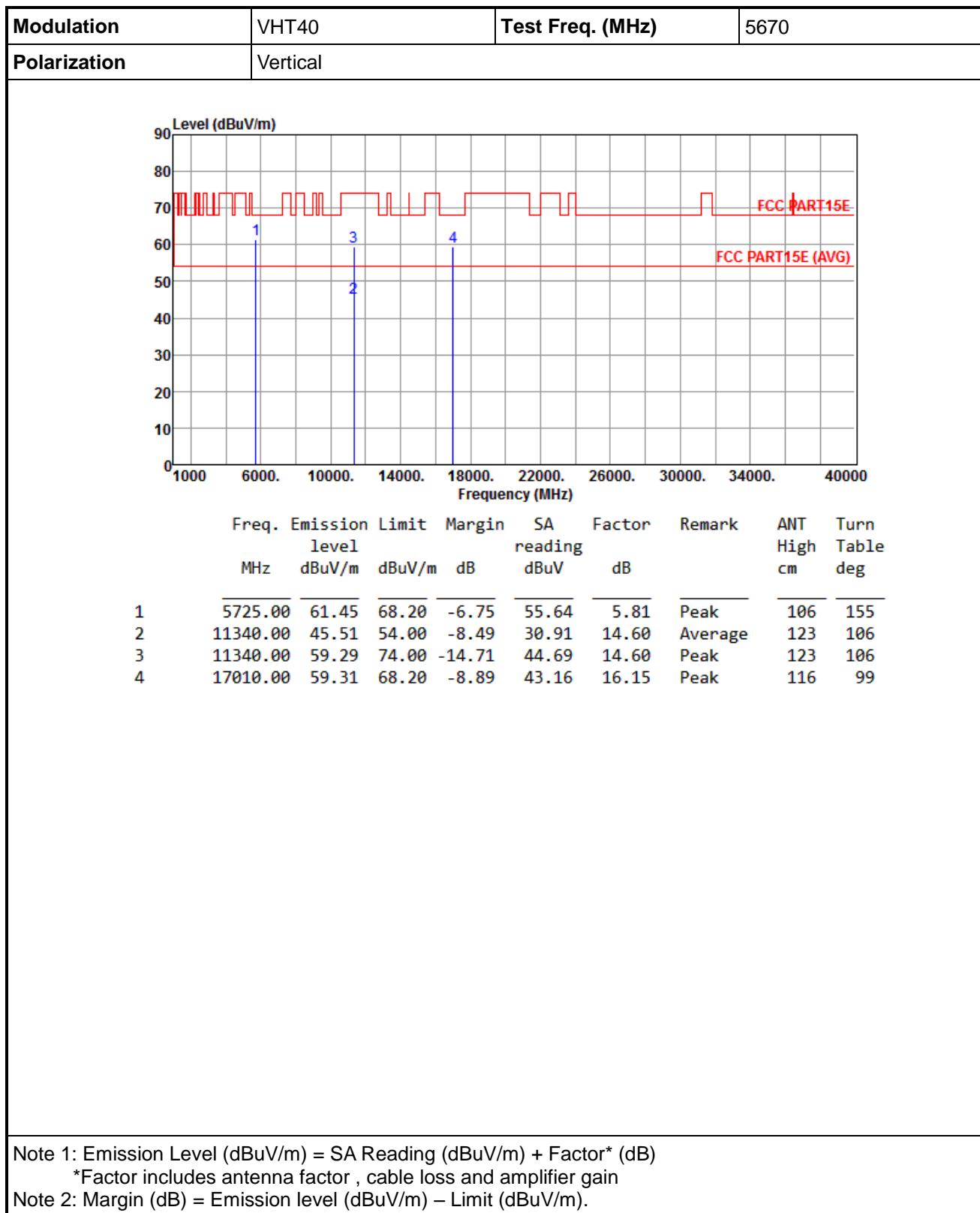
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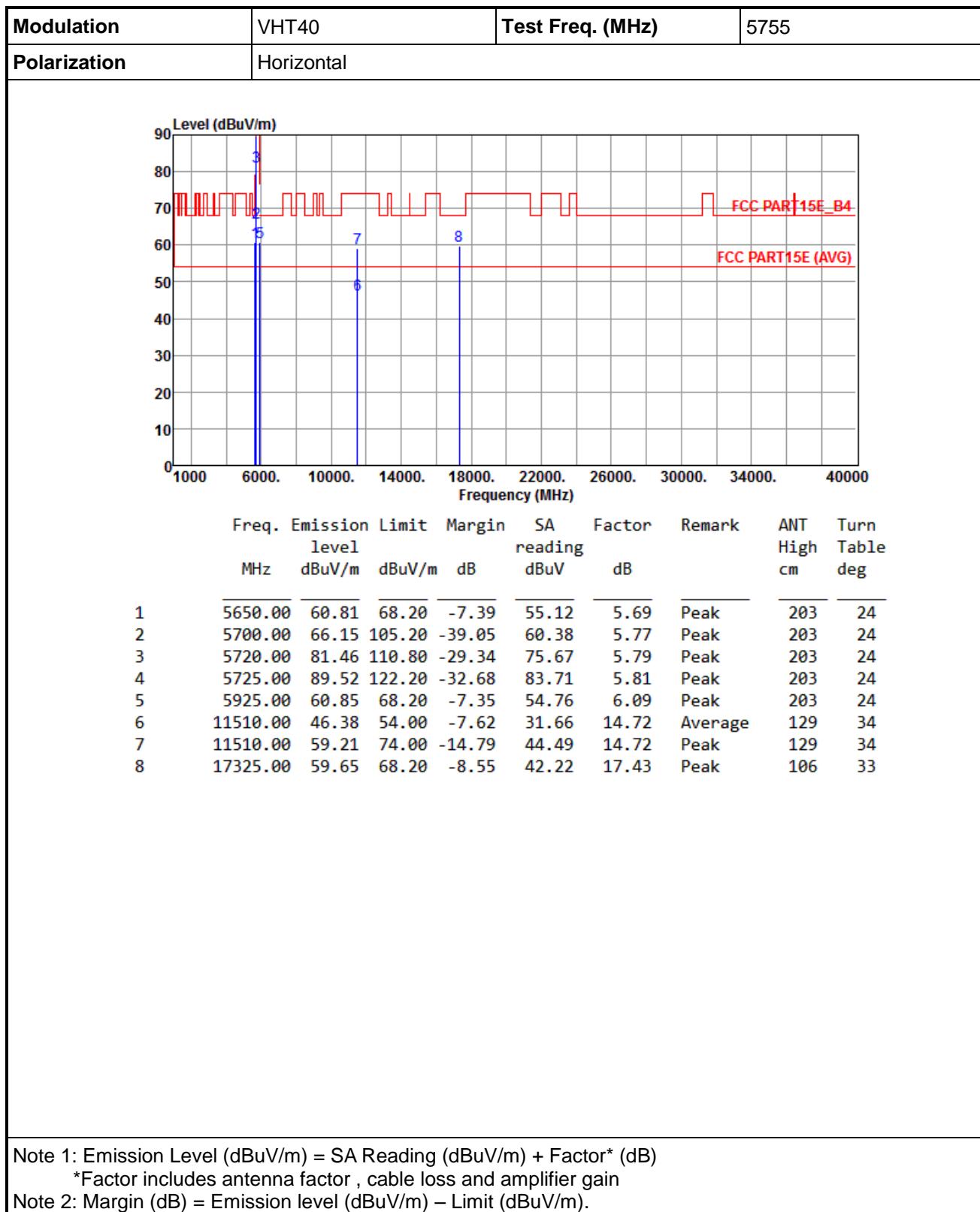
Modulation	VHT40	Test Freq. (MHz)	5670																																																	
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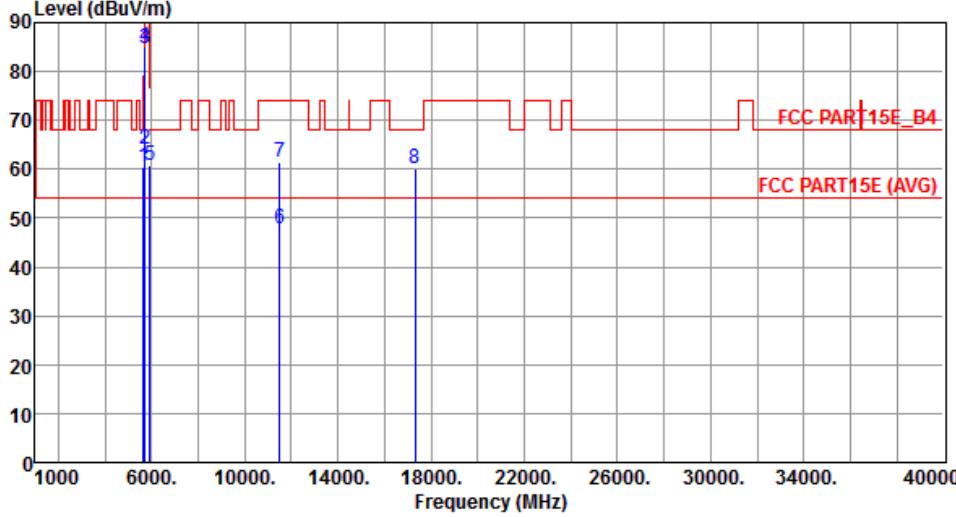
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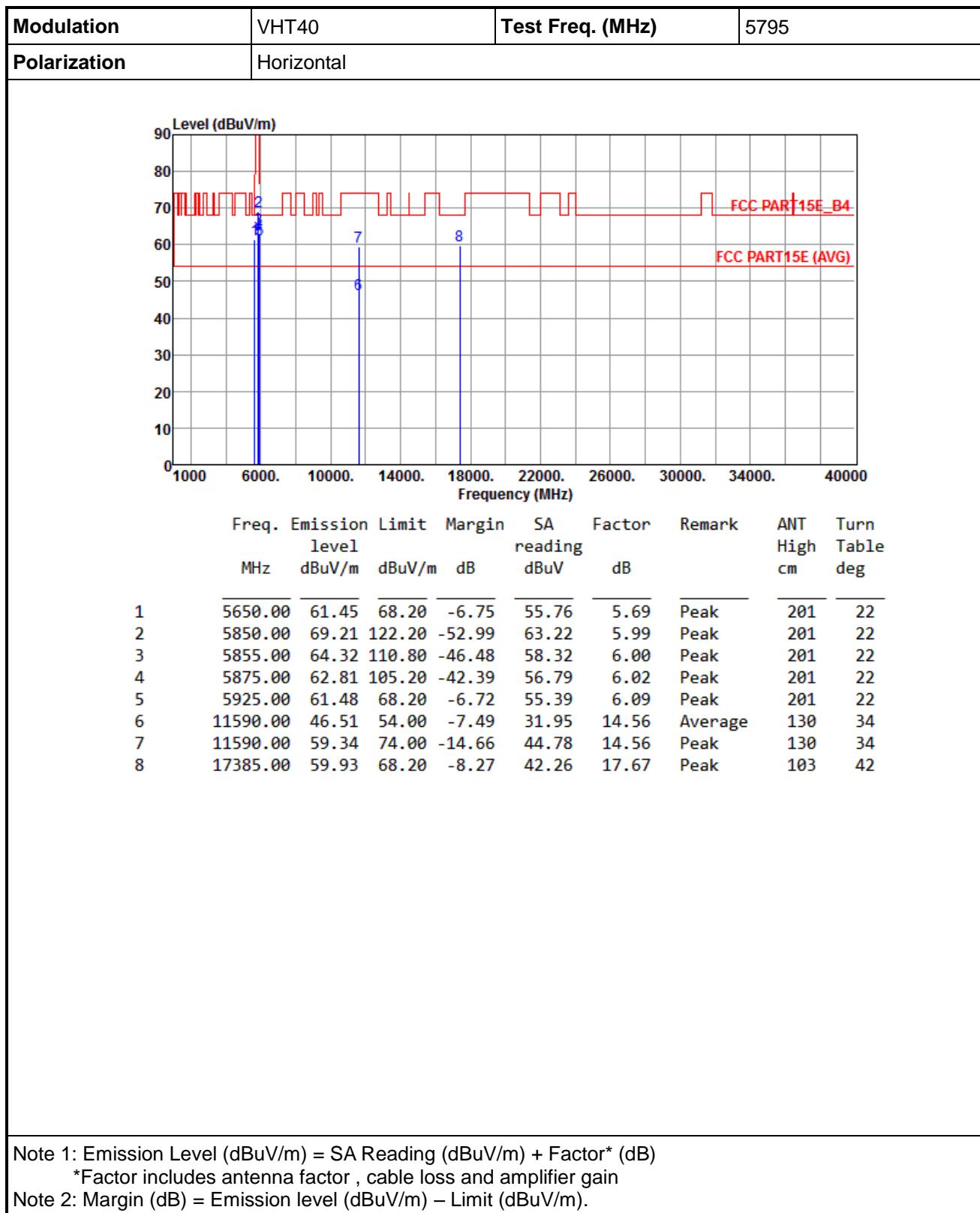


Modulation	VHT40	Test Freq. (MHz)	5755																																																																																	
Polarization	Vertical																																																																																			
																																																																																				
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2 5700.00	64.15	105.20	-41.05	58.38	5.77	Peak	105	149																																																																												
3 5720.00	84.69	110.80	-26.11	78.90	5.79	Peak	105	149																																																																												
4 5725.00	85.18	122.20	-37.02	79.37	5.81	Peak	105	149																																																																												
5 5925.00	60.92	68.20	-7.28	54.83	6.09	Peak	105	149																																																																												
6 11510.00	47.86	54.00	-6.14	33.14	14.72	Average	108	114																																																																												
7 11510.00	61.35	74.00	-12.65	46.63	14.72	Peak	108	114																																																																												
8 17325.00	60.21	68.20	-7.99	42.78	17.43	Peak	113	102																																																																												

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

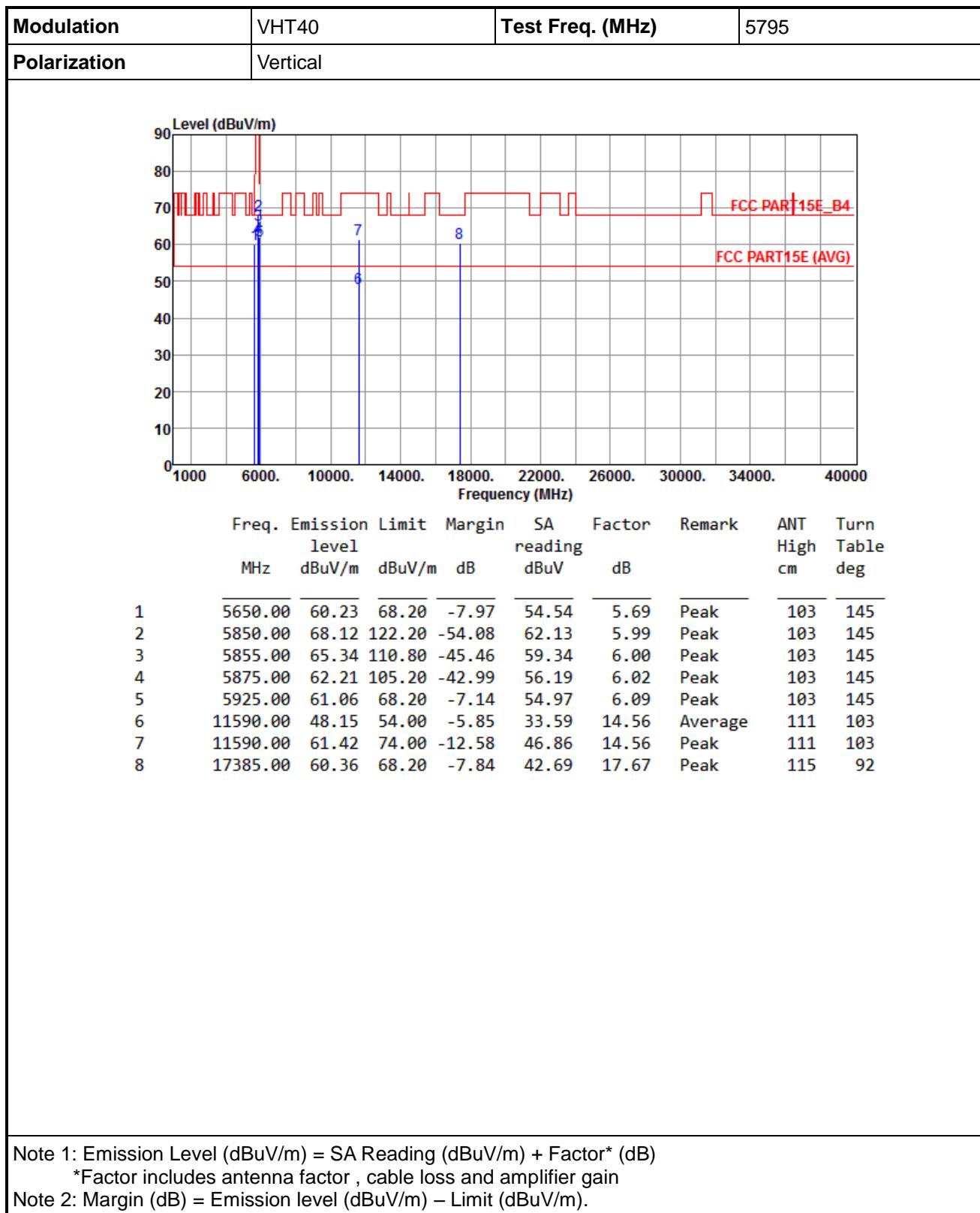
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



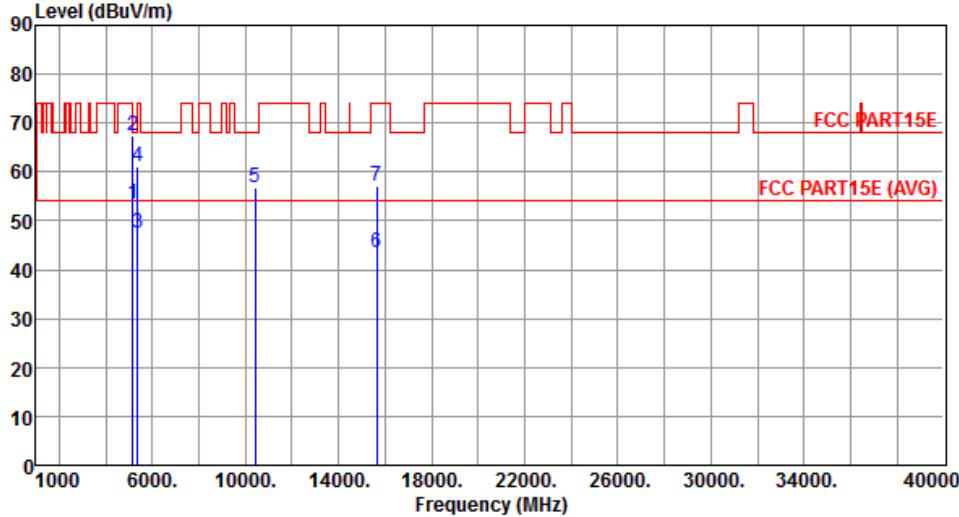
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

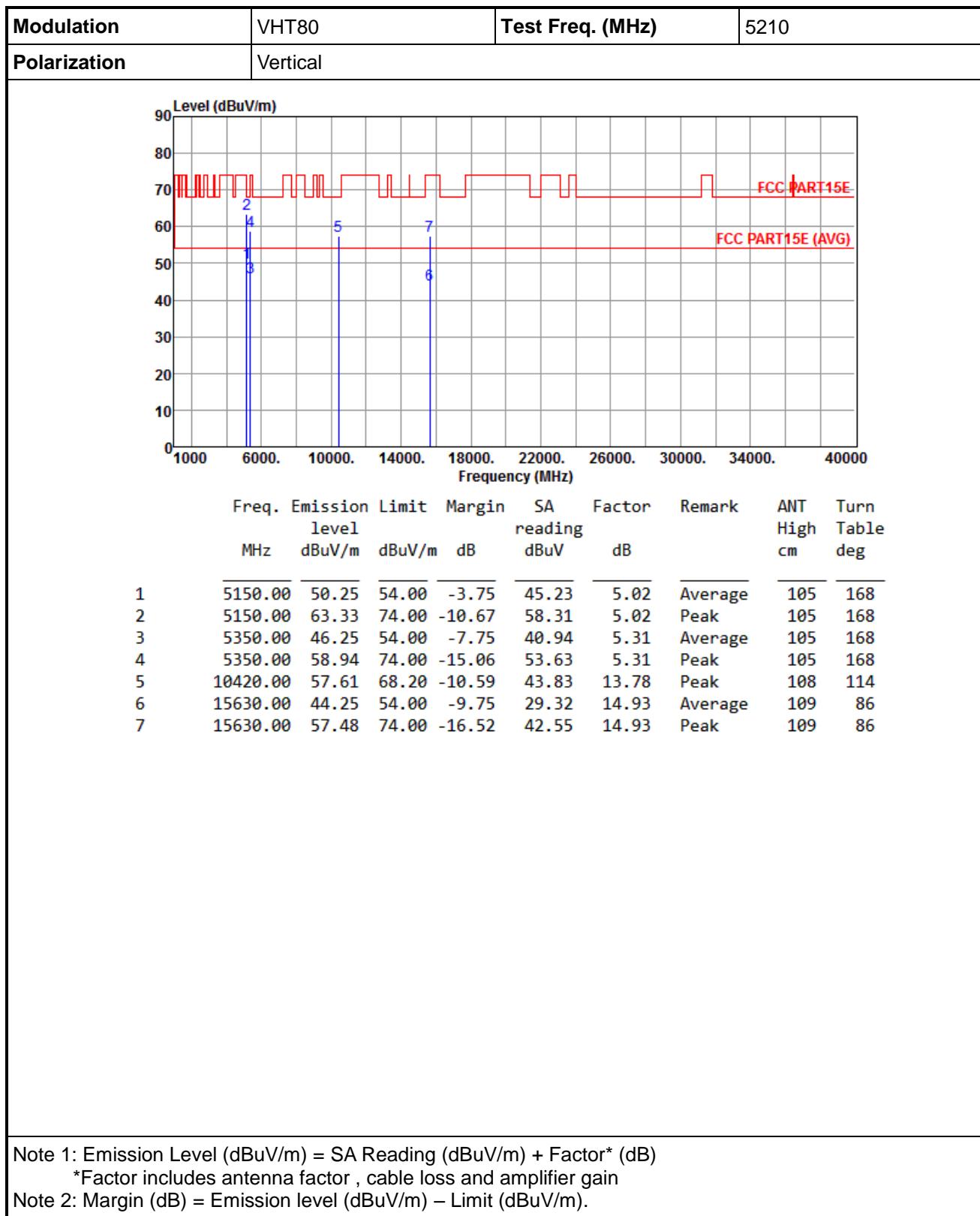
*Factor includes antenna factor , cable loss and amplifier gain

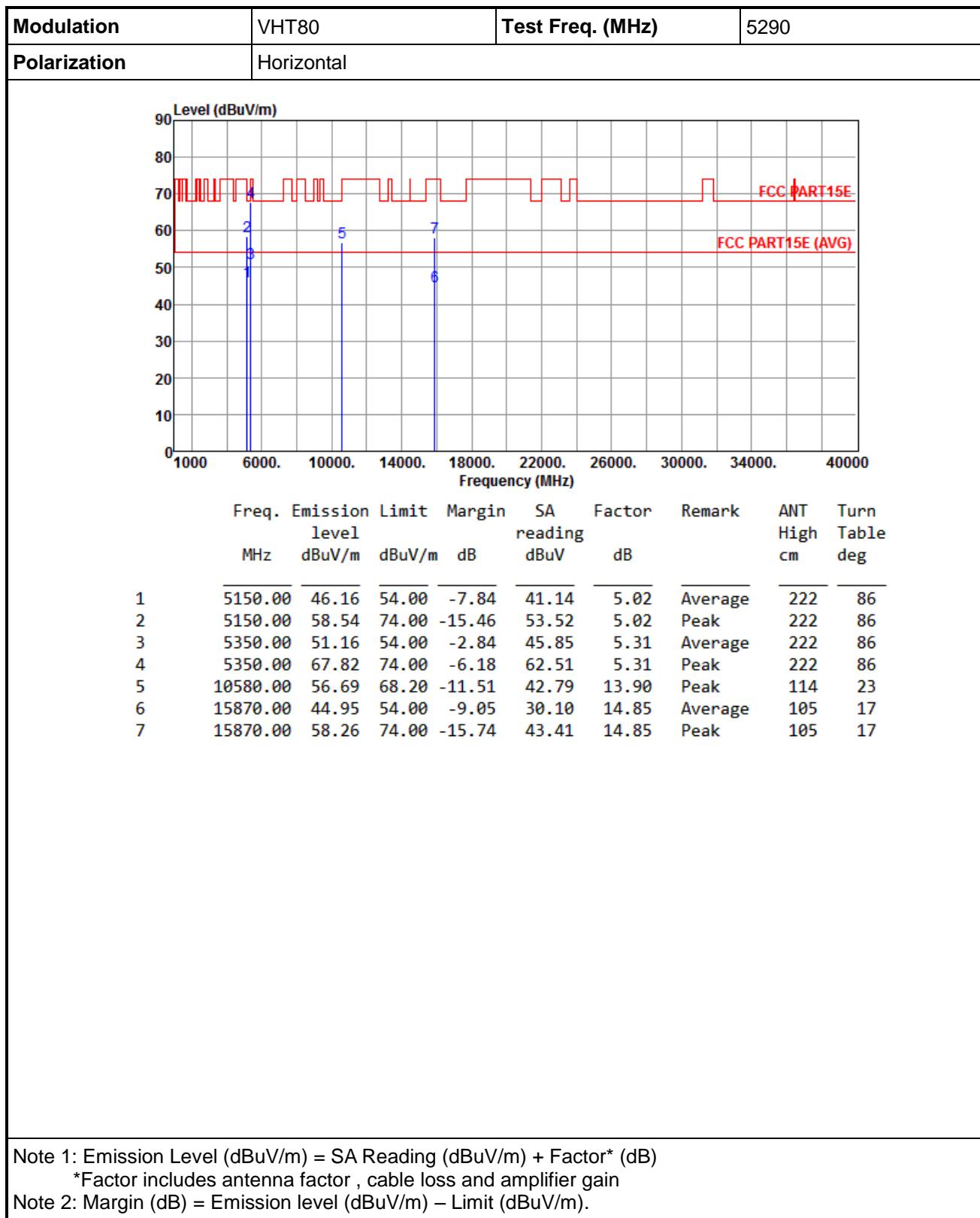
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

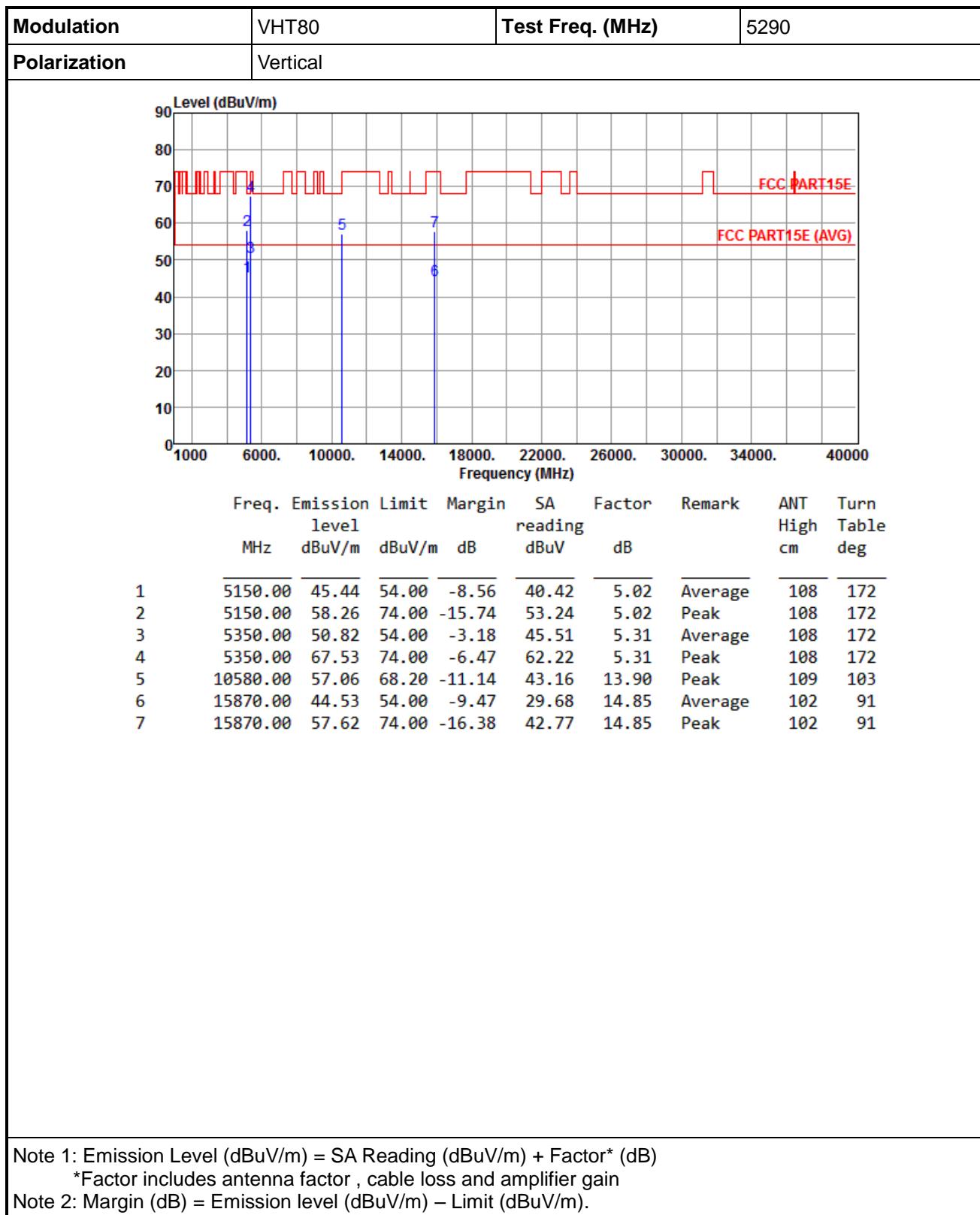


3.5.17 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210																																																																														
Polarization	Horizontal																																																																																
																																																																																	
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>53.56</td> <td>54.00</td> <td>-0.44</td> <td>48.54</td> <td>5.02</td> <td>Average</td> <td>224</td> <td>97</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>67.47</td> <td>74.00</td> <td>-6.53</td> <td>62.45</td> <td>5.02</td> <td>Peak</td> <td>224</td> <td>97</td> </tr> <tr> <td>3</td> <td>5350.00</td> <td>47.45</td> <td>54.00</td> <td>-6.55</td> <td>42.14</td> <td>5.31</td> <td>Average</td> <td>224</td> <td>97</td> </tr> <tr> <td>4</td> <td>5350.00</td> <td>61.17</td> <td>74.00</td> <td>-12.83</td> <td>55.86</td> <td>5.31</td> <td>Peak</td> <td>224</td> <td>97</td> </tr> <tr> <td>5</td> <td>10420.00</td> <td>56.95</td> <td>68.20</td> <td>-11.25</td> <td>43.17</td> <td>13.78</td> <td>Peak</td> <td>105</td> <td>11</td> </tr> <tr> <td>6</td> <td>15630.00</td> <td>43.65</td> <td>54.00</td> <td>-10.35</td> <td>28.72</td> <td>14.93</td> <td>Average</td> <td>109</td> <td>23</td> </tr> <tr> <td>7</td> <td>15630.00</td> <td>57.26</td> <td>74.00</td> <td>-16.74</td> <td>42.33</td> <td>14.93</td> <td>Peak</td> <td>109</td> <td>23</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	53.56	54.00	-0.44	48.54	5.02	Average	224	97	2	5150.00	67.47	74.00	-6.53	62.45	5.02	Peak	224	97	3	5350.00	47.45	54.00	-6.55	42.14	5.31	Average	224	97	4	5350.00	61.17	74.00	-12.83	55.86	5.31	Peak	224	97	5	10420.00	56.95	68.20	-11.25	43.17	13.78	Peak	105	11	6	15630.00	43.65	54.00	-10.35	28.72	14.93	Average	109	23	7	15630.00	57.26	74.00	-16.74	42.33	14.93	Peak	109	23
Freq. MHz	Emission level dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
1	5150.00	53.56	54.00	-0.44	48.54	5.02	Average	224	97																																																																								
2	5150.00	67.47	74.00	-6.53	62.45	5.02	Peak	224	97																																																																								
3	5350.00	47.45	54.00	-6.55	42.14	5.31	Average	224	97																																																																								
4	5350.00	61.17	74.00	-12.83	55.86	5.31	Peak	224	97																																																																								
5	10420.00	56.95	68.20	-11.25	43.17	13.78	Peak	105	11																																																																								
6	15630.00	43.65	54.00	-10.35	28.72	14.93	Average	109	23																																																																								
7	15630.00	57.26	74.00	-16.74	42.33	14.93	Peak	109	23																																																																								
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																																																	



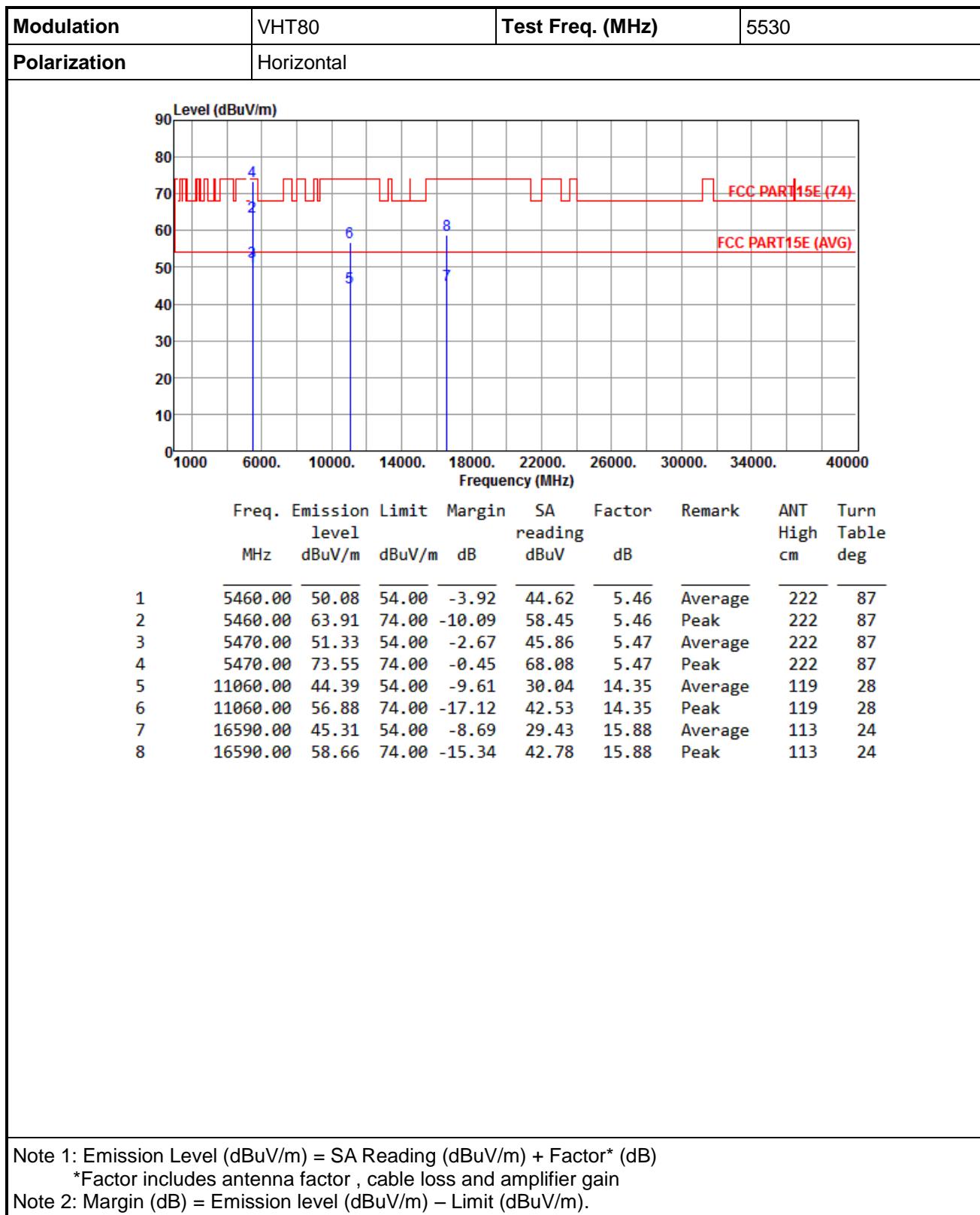


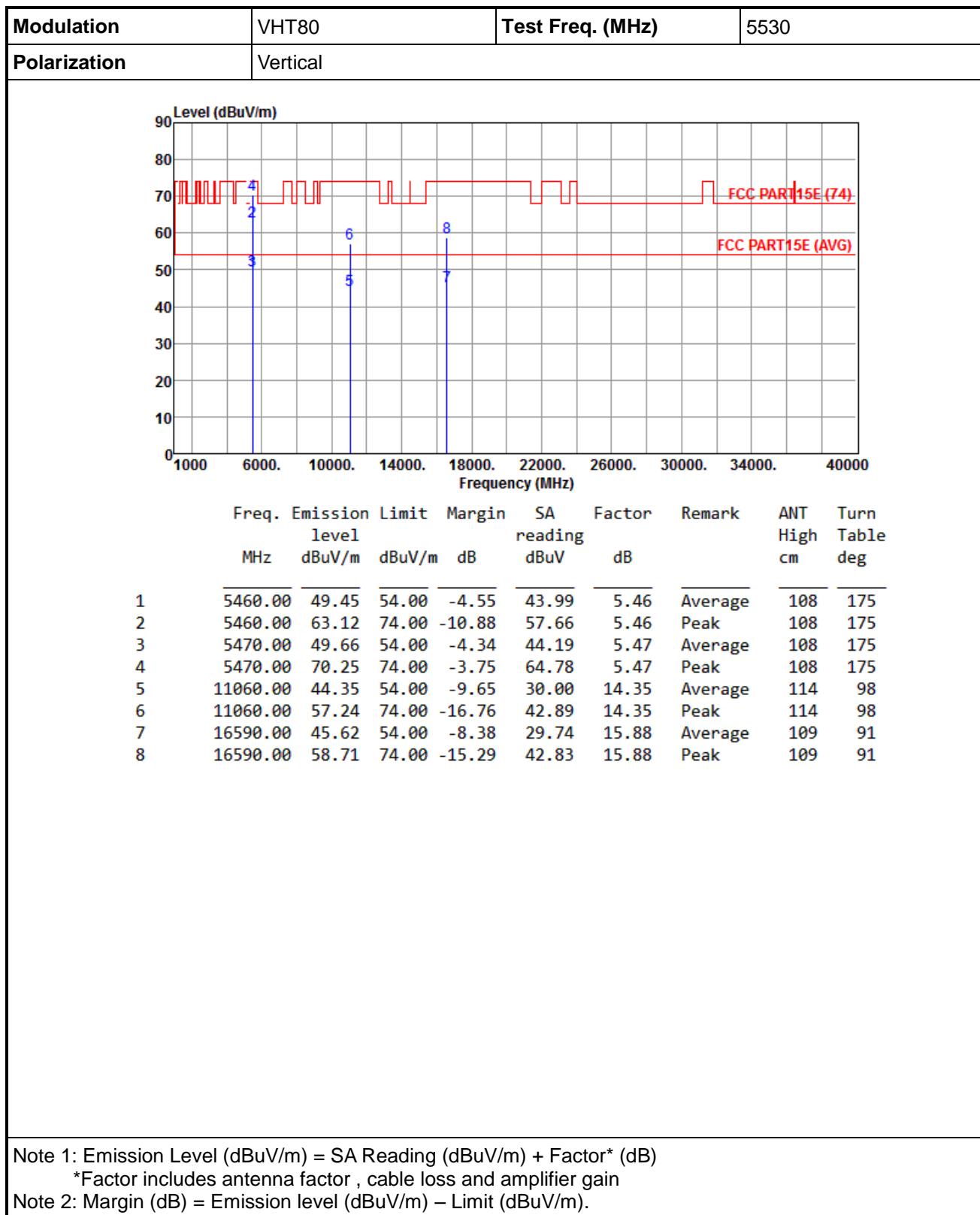


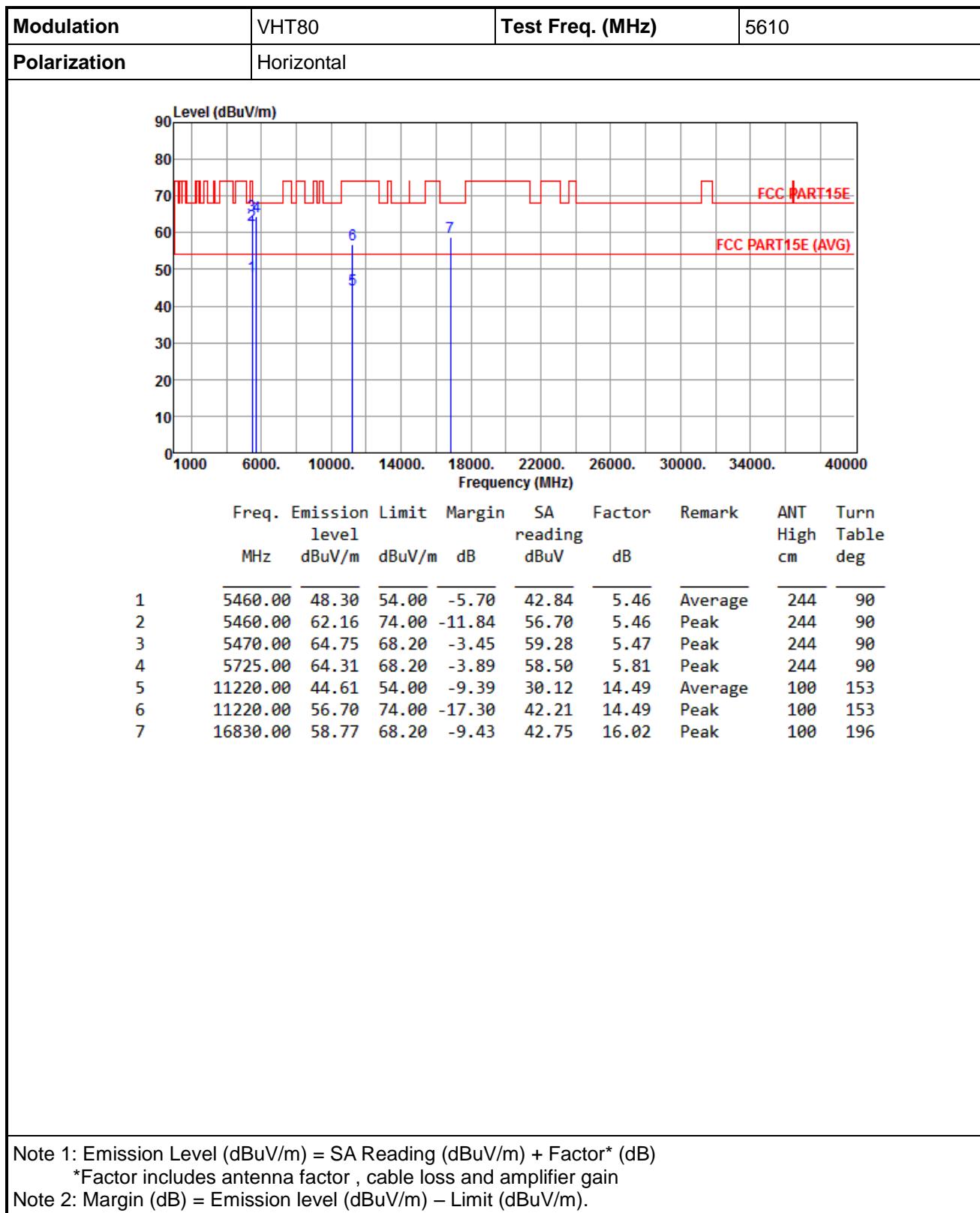
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

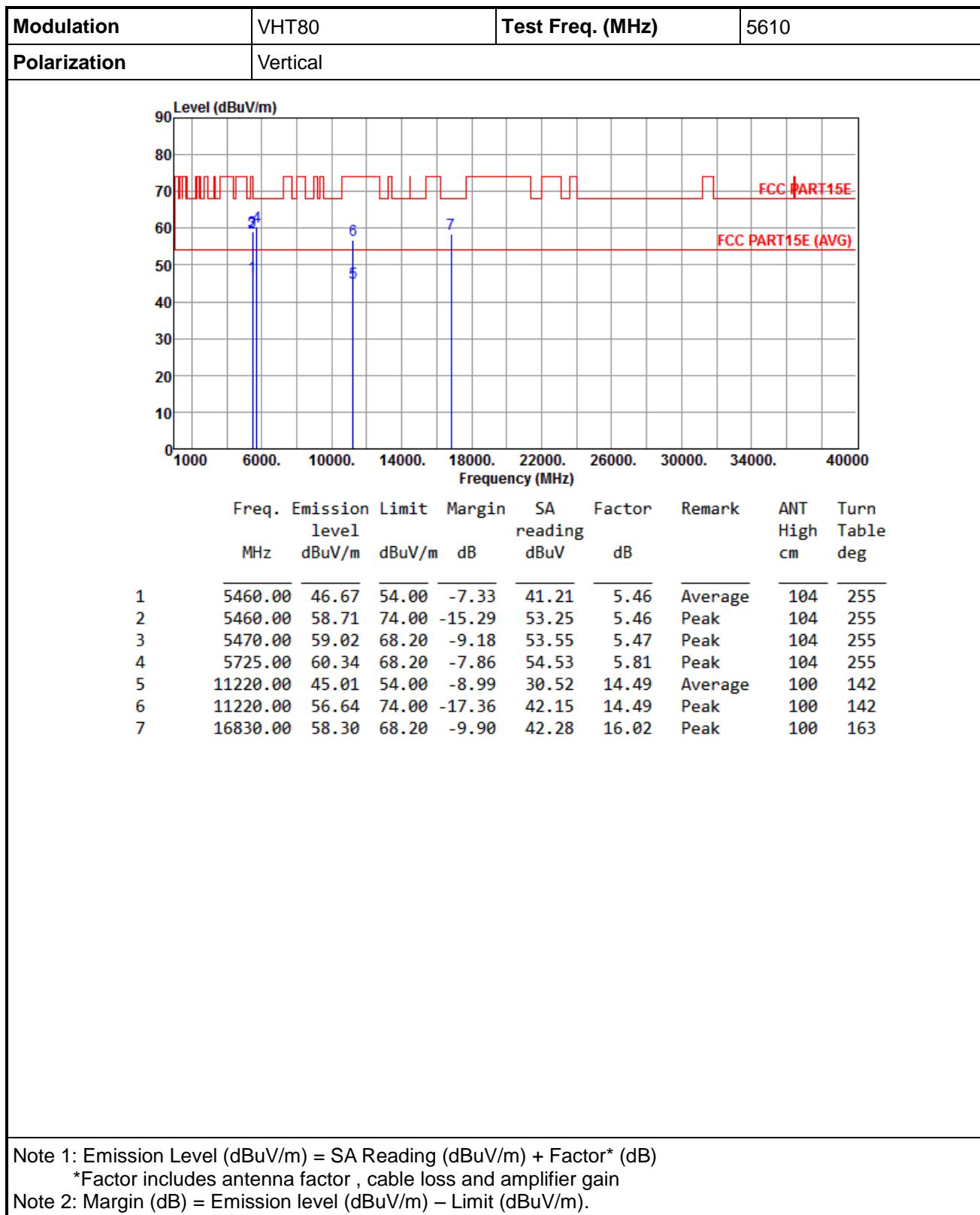
*Factor includes antenna factor , cable loss and amplifier gain

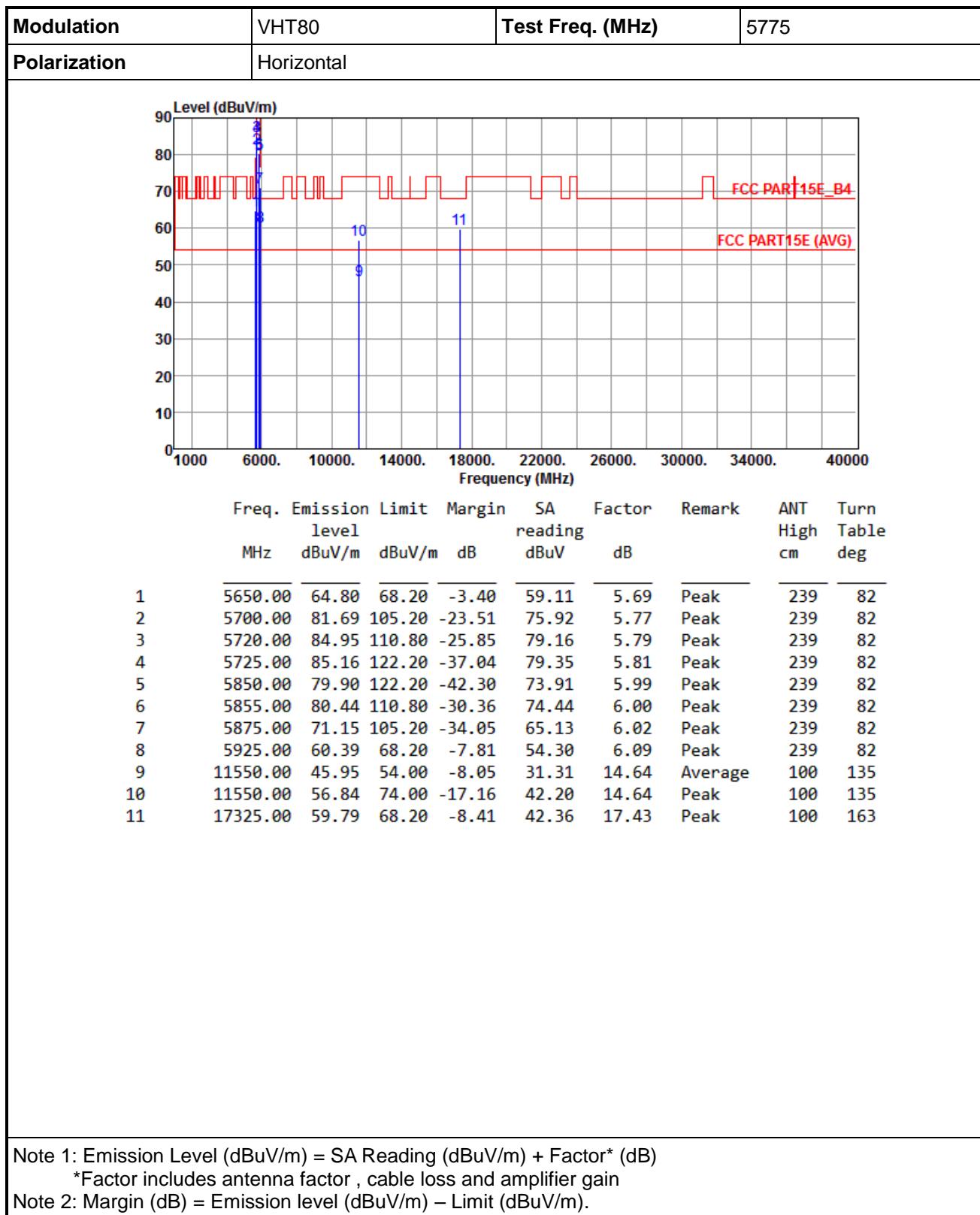
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

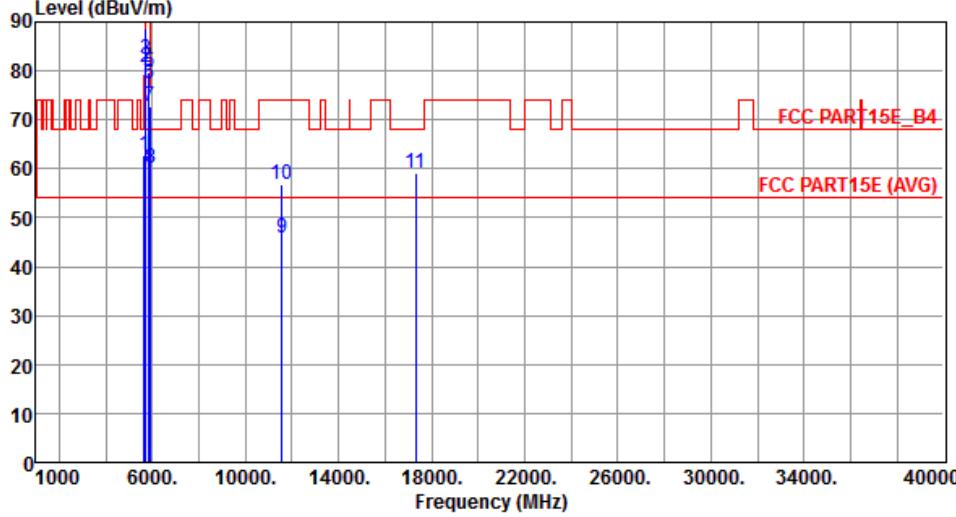










Modulation	VHT80	Test Freq. (MHz)	5775																																																																																																
Polarization	Vertical																																																																																																		
																																																																																																			
<table> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr><td>1</td><td>5650.00</td><td>62.88</td><td>68.20</td><td>-5.32</td><td>57.19</td><td>5.69</td><td>Peak 107</td></tr> <tr><td>2</td><td>5700.00</td><td>80.68</td><td>105.20</td><td>-24.52</td><td>74.91</td><td>5.77</td><td>Peak 107</td></tr> <tr><td>3</td><td>5720.00</td><td>82.39</td><td>110.80</td><td>-28.41</td><td>76.60</td><td>5.79</td><td>Peak 107</td></tr> <tr><td>4</td><td>5725.00</td><td>88.69</td><td>122.20</td><td>-33.51</td><td>82.88</td><td>5.81</td><td>Peak 107</td></tr> <tr><td>5</td><td>5850.00</td><td>79.72</td><td>122.20</td><td>-42.48</td><td>73.73</td><td>5.99</td><td>Peak 107</td></tr> <tr><td>6</td><td>5855.00</td><td>77.42</td><td>110.80</td><td>-33.38</td><td>71.42</td><td>6.00</td><td>Peak 107</td></tr> <tr><td>7</td><td>5875.00</td><td>72.73</td><td>105.20</td><td>-32.47</td><td>66.71</td><td>6.02</td><td>Peak 107</td></tr> <tr><td>8</td><td>5925.00</td><td>60.21</td><td>68.20</td><td>-7.99</td><td>54.12</td><td>6.09</td><td>Peak 107</td></tr> <tr><td>9</td><td>11550.00</td><td>45.69</td><td>54.00</td><td>-8.31</td><td>31.05</td><td>14.64</td><td>Average 100</td></tr> <tr><td>10</td><td>11550.00</td><td>56.89</td><td>74.00</td><td>-17.11</td><td>42.25</td><td>14.64</td><td>Peak 100</td></tr> <tr><td>11</td><td>17325.00</td><td>59.25</td><td>68.20</td><td>-8.95</td><td>41.82</td><td>17.43</td><td>Peak 100</td></tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	62.88	68.20	-5.32	57.19	5.69	Peak 107	2	5700.00	80.68	105.20	-24.52	74.91	5.77	Peak 107	3	5720.00	82.39	110.80	-28.41	76.60	5.79	Peak 107	4	5725.00	88.69	122.20	-33.51	82.88	5.81	Peak 107	5	5850.00	79.72	122.20	-42.48	73.73	5.99	Peak 107	6	5855.00	77.42	110.80	-33.38	71.42	6.00	Peak 107	7	5875.00	72.73	105.20	-32.47	66.71	6.02	Peak 107	8	5925.00	60.21	68.20	-7.99	54.12	6.09	Peak 107	9	11550.00	45.69	54.00	-8.31	31.05	14.64	Average 100	10	11550.00	56.89	74.00	-17.11	42.25	14.64	Peak 100	11	17325.00	59.25	68.20	-8.95	41.82	17.43	Peak 100
Freq. MHz	Emission level dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																												
1	5650.00	62.88	68.20	-5.32	57.19	5.69	Peak 107																																																																																												
2	5700.00	80.68	105.20	-24.52	74.91	5.77	Peak 107																																																																																												
3	5720.00	82.39	110.80	-28.41	76.60	5.79	Peak 107																																																																																												
4	5725.00	88.69	122.20	-33.51	82.88	5.81	Peak 107																																																																																												
5	5850.00	79.72	122.20	-42.48	73.73	5.99	Peak 107																																																																																												
6	5855.00	77.42	110.80	-33.38	71.42	6.00	Peak 107																																																																																												
7	5875.00	72.73	105.20	-32.47	66.71	6.02	Peak 107																																																																																												
8	5925.00	60.21	68.20	-7.99	54.12	6.09	Peak 107																																																																																												
9	11550.00	45.69	54.00	-8.31	31.05	14.64	Average 100																																																																																												
10	11550.00	56.89	74.00	-17.11	42.25	14.64	Peak 100																																																																																												
11	17325.00	59.25	68.20	-8.95	41.82	17.43	Peak 100																																																																																												

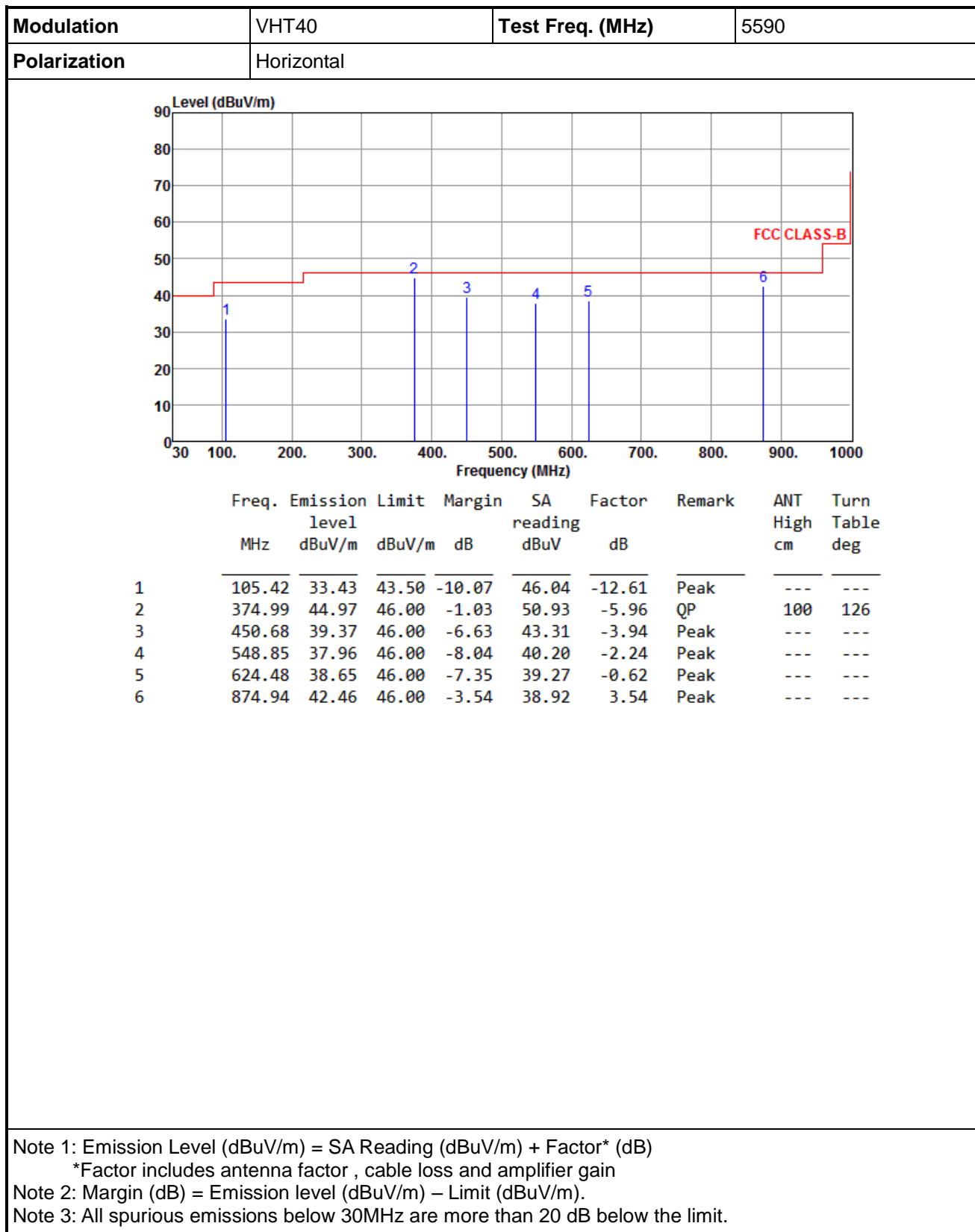
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

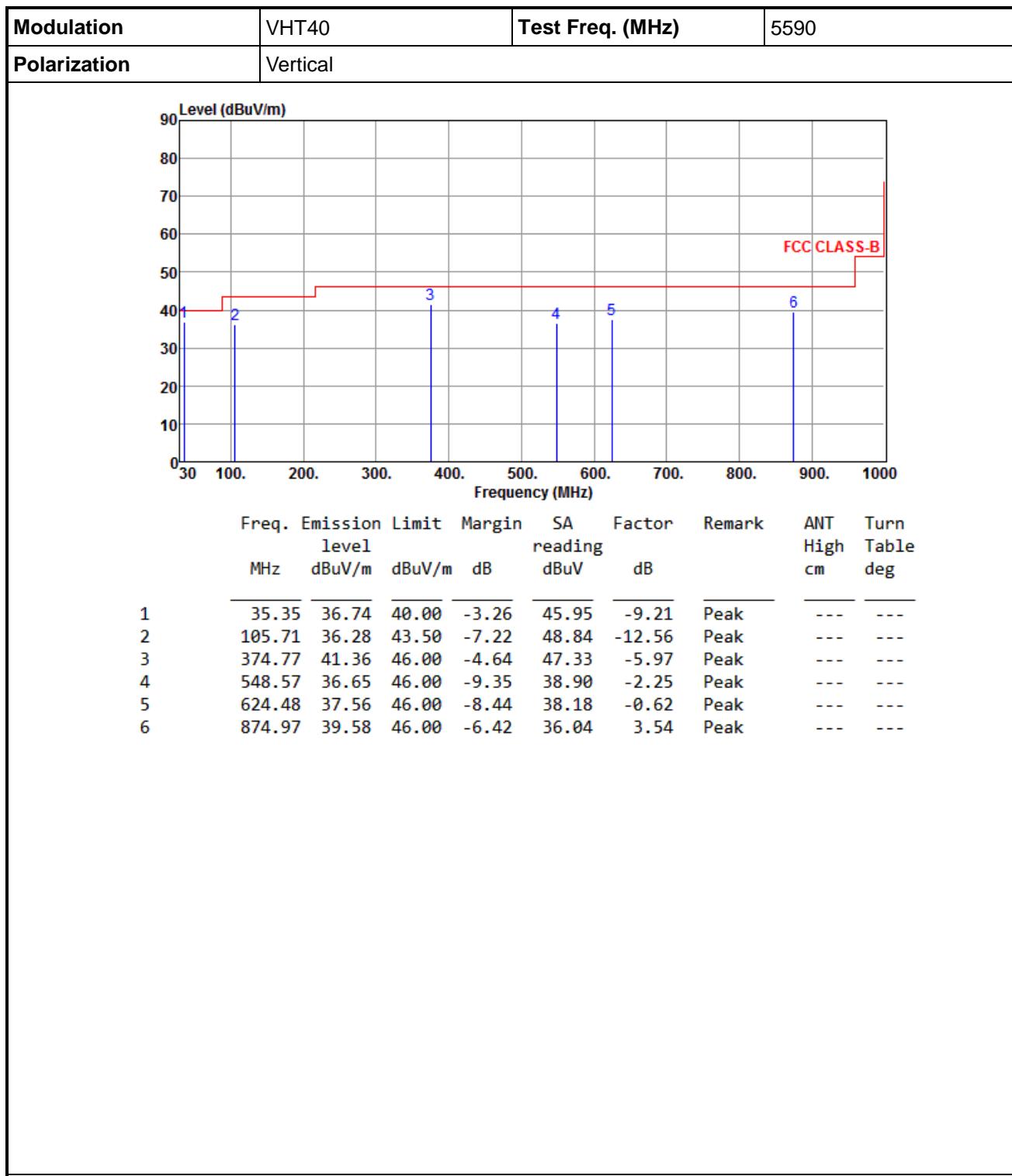
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Beamforming mode

3.5.18 Transmitter Radiated Unwanted Emissions (Below 1GHz)



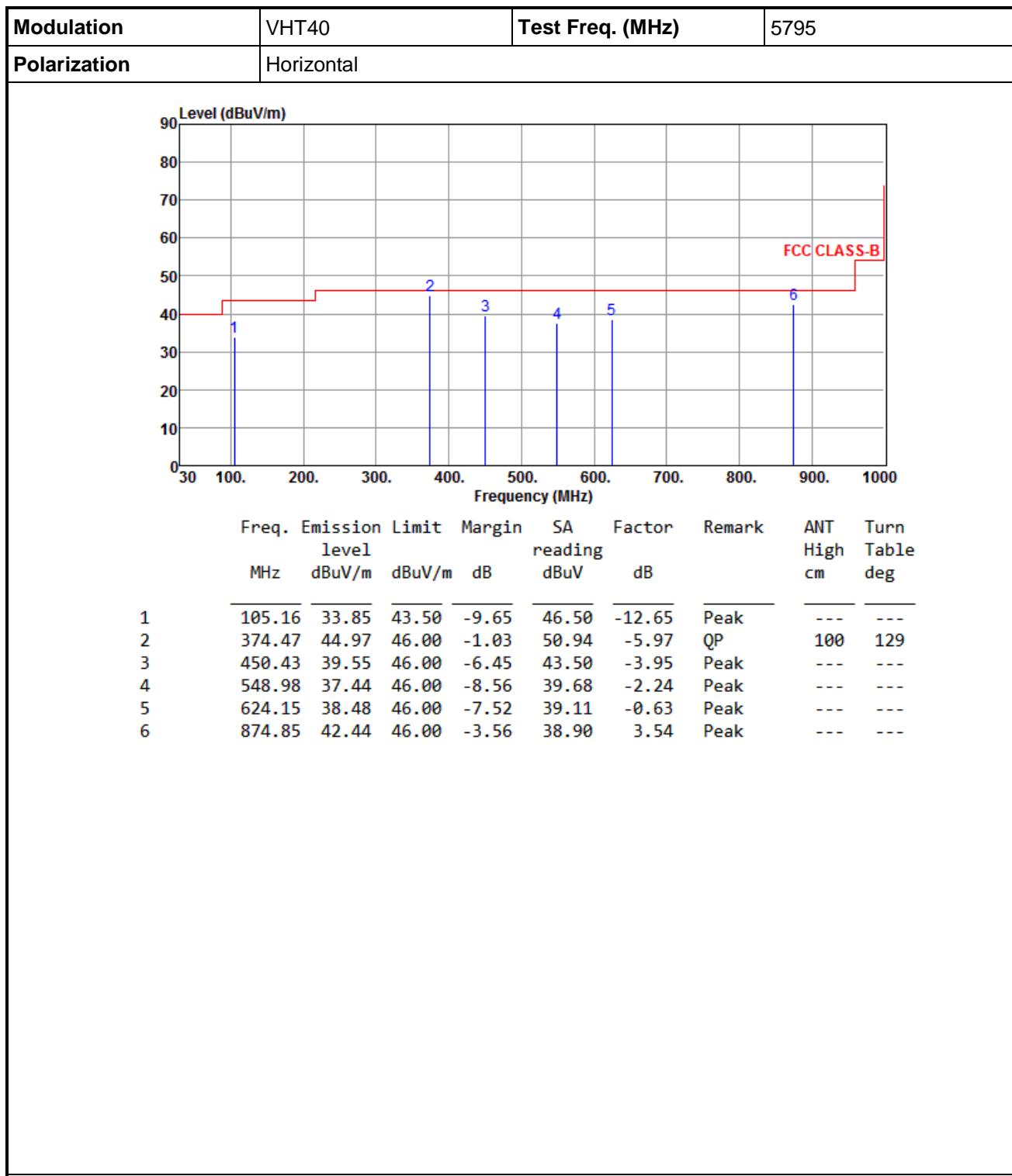


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

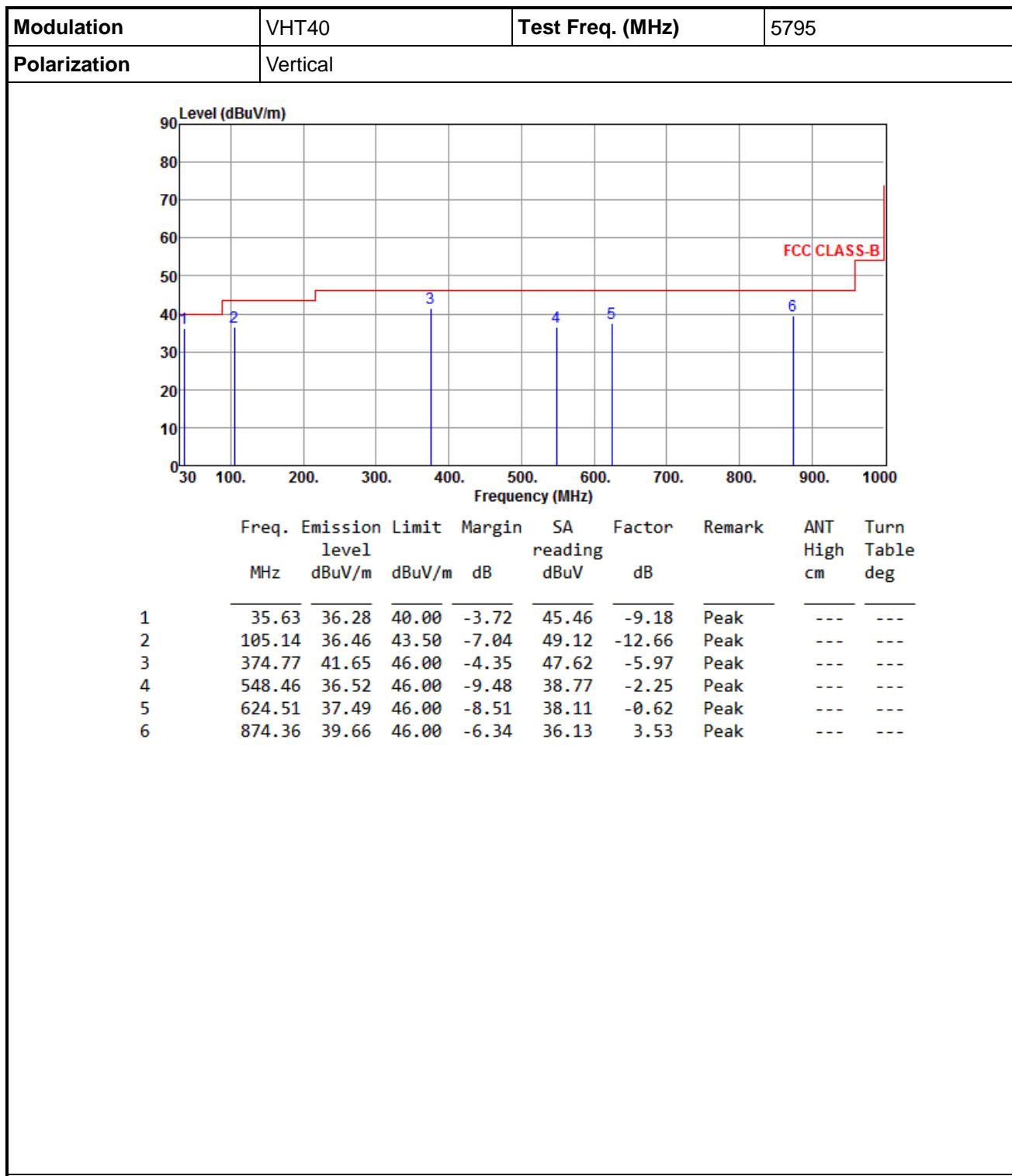


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



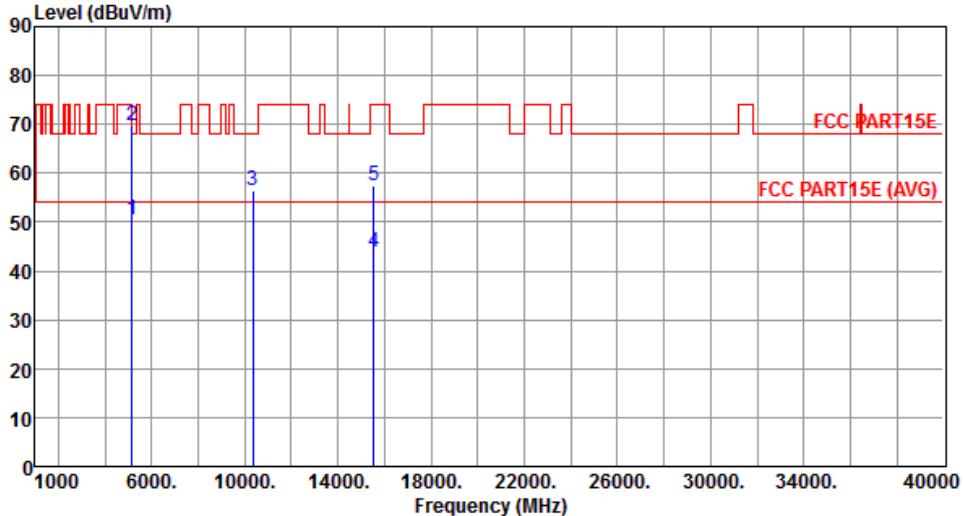
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

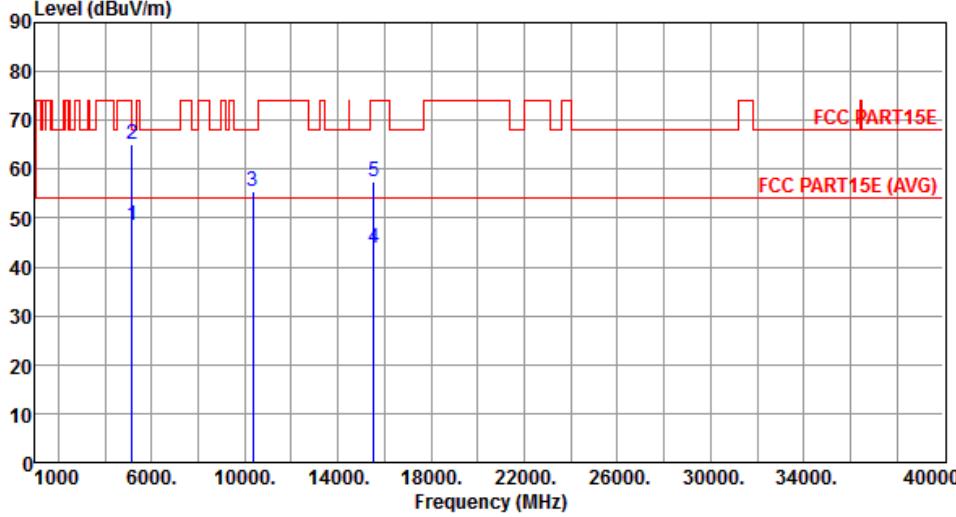
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.19 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

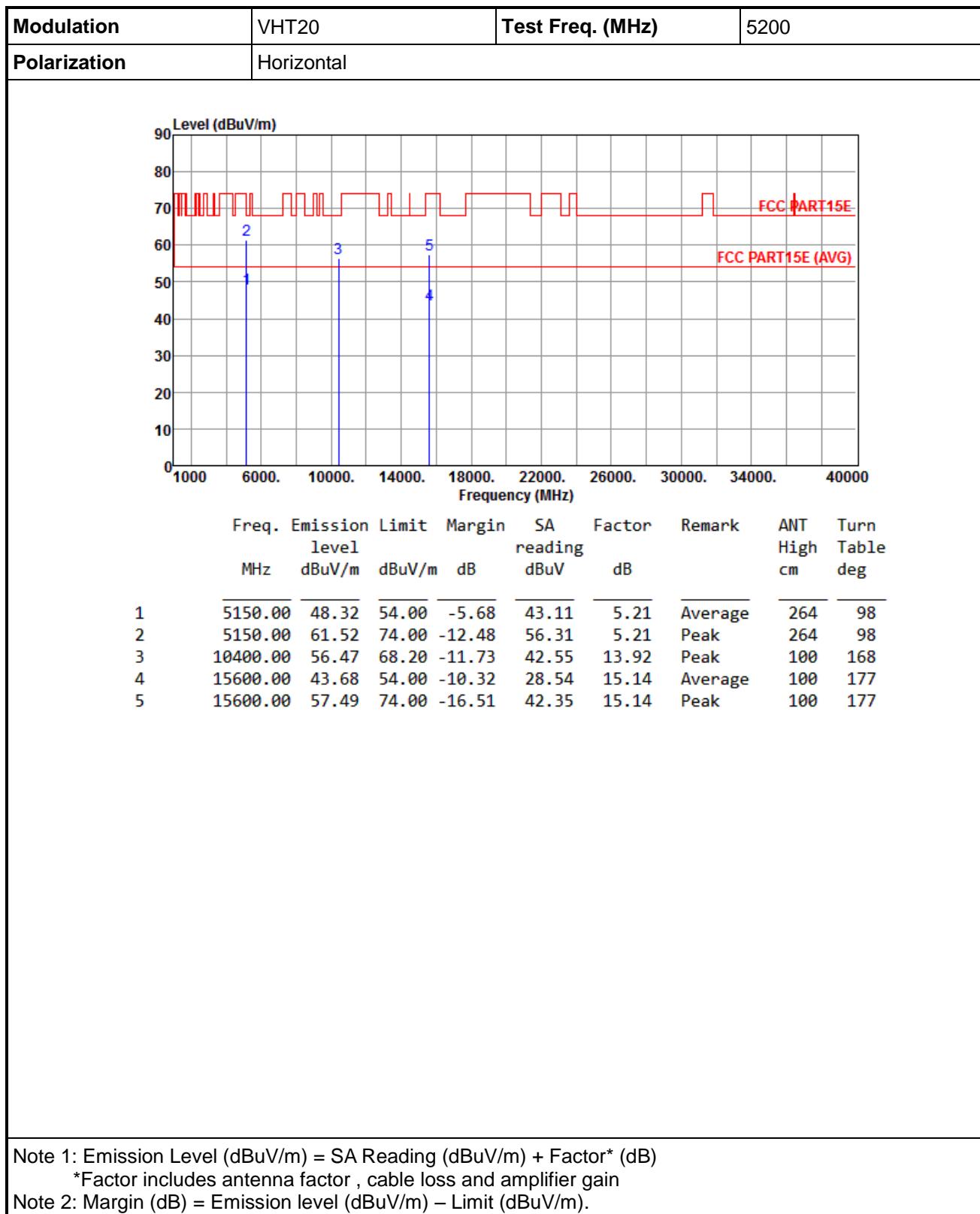
Modulation	VHT20	Test Freq. (MHz)	5180																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.00</td><td>50.32</td><td>54.00</td><td>-3.68</td><td>45.11</td><td>5.21</td><td>Average</td><td>265</td><td>80</td></tr> <tr> <td>2</td><td>5150.00</td><td>69.60</td><td>74.00</td><td>-4.40</td><td>64.39</td><td>5.21</td><td>Peak</td><td>265</td><td>80</td></tr> <tr> <td>3</td><td>10360.00</td><td>56.41</td><td>68.20</td><td>-11.79</td><td>42.51</td><td>13.90</td><td>Peak</td><td>185</td><td>110</td></tr> <tr> <td>4</td><td>15540.00</td><td>43.71</td><td>54.00</td><td>-10.29</td><td>28.54</td><td>15.17</td><td>Average</td><td>100</td><td>157</td></tr> <tr> <td>5</td><td>15540.00</td><td>57.55</td><td>74.00</td><td>-16.45</td><td>42.38</td><td>15.17</td><td>Peak</td><td>100</td><td>310</td></tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	50.32	54.00	-3.68	45.11	5.21	Average	265	80	2	5150.00	69.60	74.00	-4.40	64.39	5.21	Peak	265	80	3	10360.00	56.41	68.20	-11.79	42.51	13.90	Peak	185	110	4	15540.00	43.71	54.00	-10.29	28.54	15.17	Average	100	157	5	15540.00	57.55	74.00	-16.45	42.38	15.17	Peak	100	310
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	50.32	54.00	-3.68	45.11	5.21	Average	265	80																																																					
2	5150.00	69.60	74.00	-4.40	64.39	5.21	Peak	265	80																																																					
3	10360.00	56.41	68.20	-11.79	42.51	13.90	Peak	185	110																																																					
4	15540.00	43.71	54.00	-10.29	28.54	15.17	Average	100	157																																																					
5	15540.00	57.55	74.00	-16.45	42.38	15.17	Peak	100	310																																																					
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																														

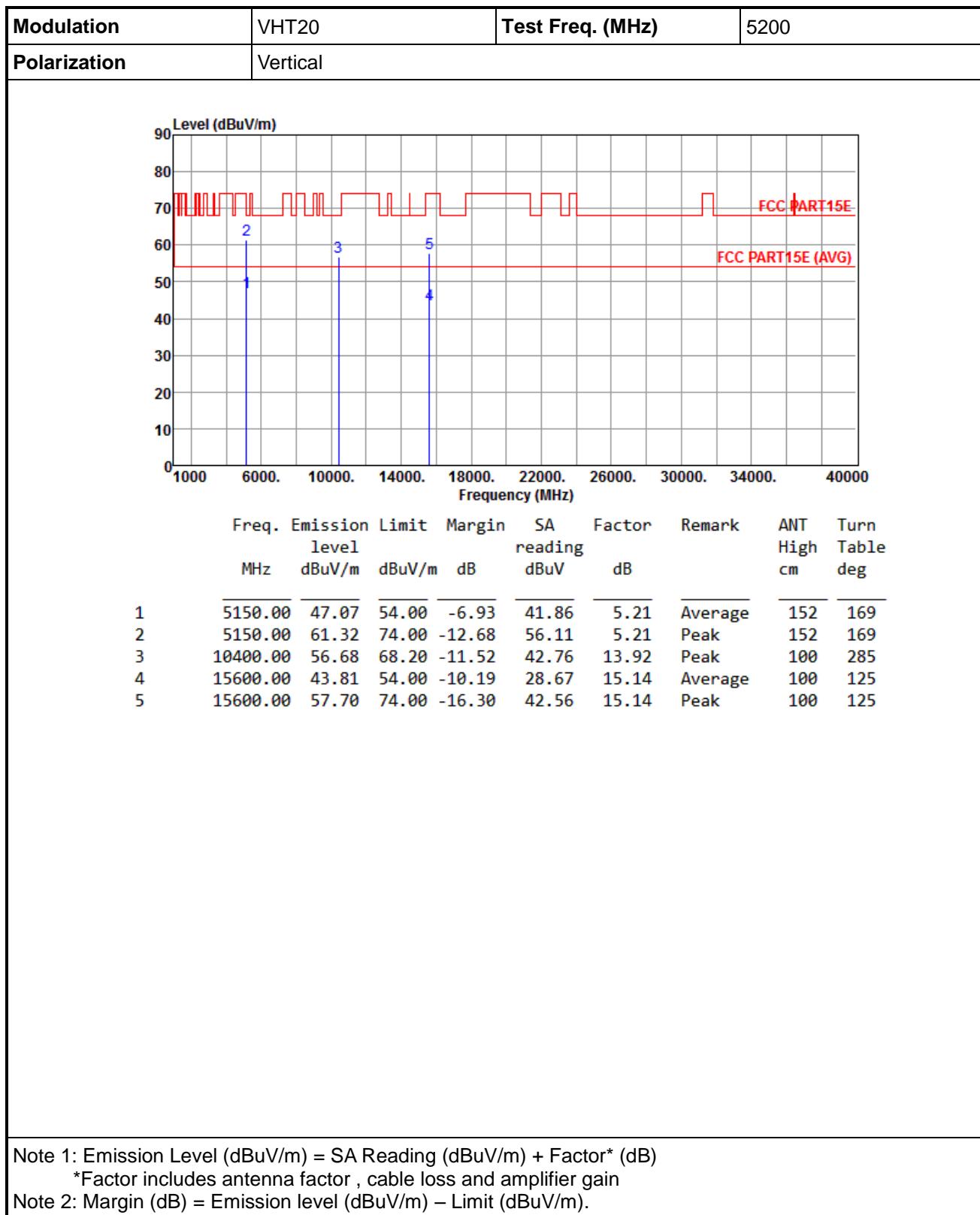
Modulation	VHT20	Test Freq. (MHz)	5180																																																											
Polarization	Vertical																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th> <th>Emission level dBuV/m</th> <th>Limit dBuV/m</th> <th>Margin dB</th> <th>SA reading dBuV</th> <th>Factor dB</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>48.56</td> <td>54.00</td> <td>-5.44</td> <td>43.35</td> <td>5.21</td> <td>Average</td> <td>125</td> <td>272</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>64.96</td> <td>74.00</td> <td>-9.04</td> <td>59.75</td> <td>5.21</td> <td>Peak</td> <td>125</td> <td>272</td> </tr> <tr> <td>3</td> <td>10360.00</td> <td>55.44</td> <td>68.20</td> <td>-12.76</td> <td>41.54</td> <td>13.90</td> <td>Peak</td> <td>249</td> <td>245</td> </tr> <tr> <td>4</td> <td>15540.00</td> <td>43.94</td> <td>54.00</td> <td>-10.06</td> <td>28.77</td> <td>15.17</td> <td>Average</td> <td>100</td> <td>163</td> </tr> <tr> <td>5</td> <td>15540.00</td> <td>57.32</td> <td>74.00</td> <td>-16.68</td> <td>42.15</td> <td>15.17</td> <td>Peak</td> <td>100</td> <td>163</td> </tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	48.56	54.00	-5.44	43.35	5.21	Average	125	272	2	5150.00	64.96	74.00	-9.04	59.75	5.21	Peak	125	272	3	10360.00	55.44	68.20	-12.76	41.54	13.90	Peak	249	245	4	15540.00	43.94	54.00	-10.06	28.77	15.17	Average	100	163	5	15540.00	57.32	74.00	-16.68	42.15	15.17	Peak	100	163
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
1	5150.00	48.56	54.00	-5.44	43.35	5.21	Average	125	272																																																					
2	5150.00	64.96	74.00	-9.04	59.75	5.21	Peak	125	272																																																					
3	10360.00	55.44	68.20	-12.76	41.54	13.90	Peak	249	245																																																					
4	15540.00	43.94	54.00	-10.06	28.77	15.17	Average	100	163																																																					
5	15540.00	57.32	74.00	-16.68	42.15	15.17	Peak	100	163																																																					

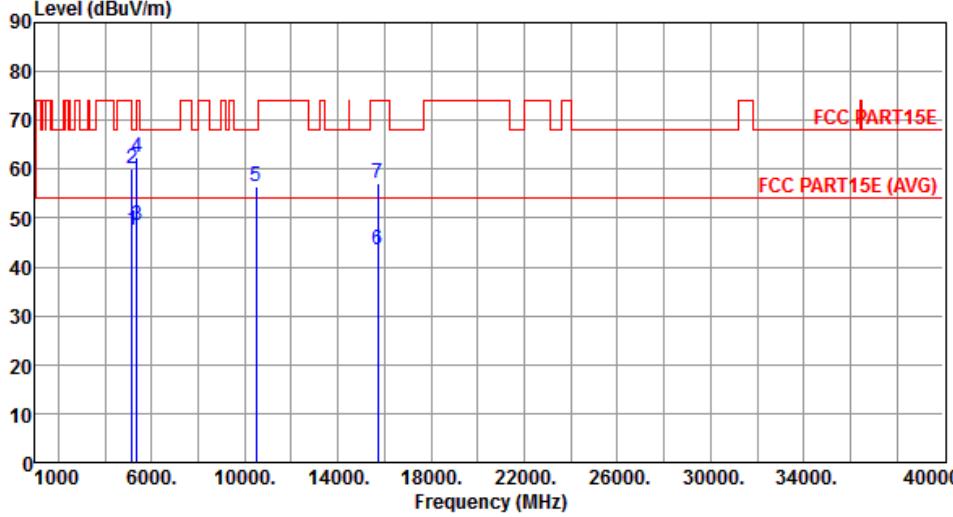
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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Modulation	VHT20	Test Freq. (MHz)	5240																																																																															
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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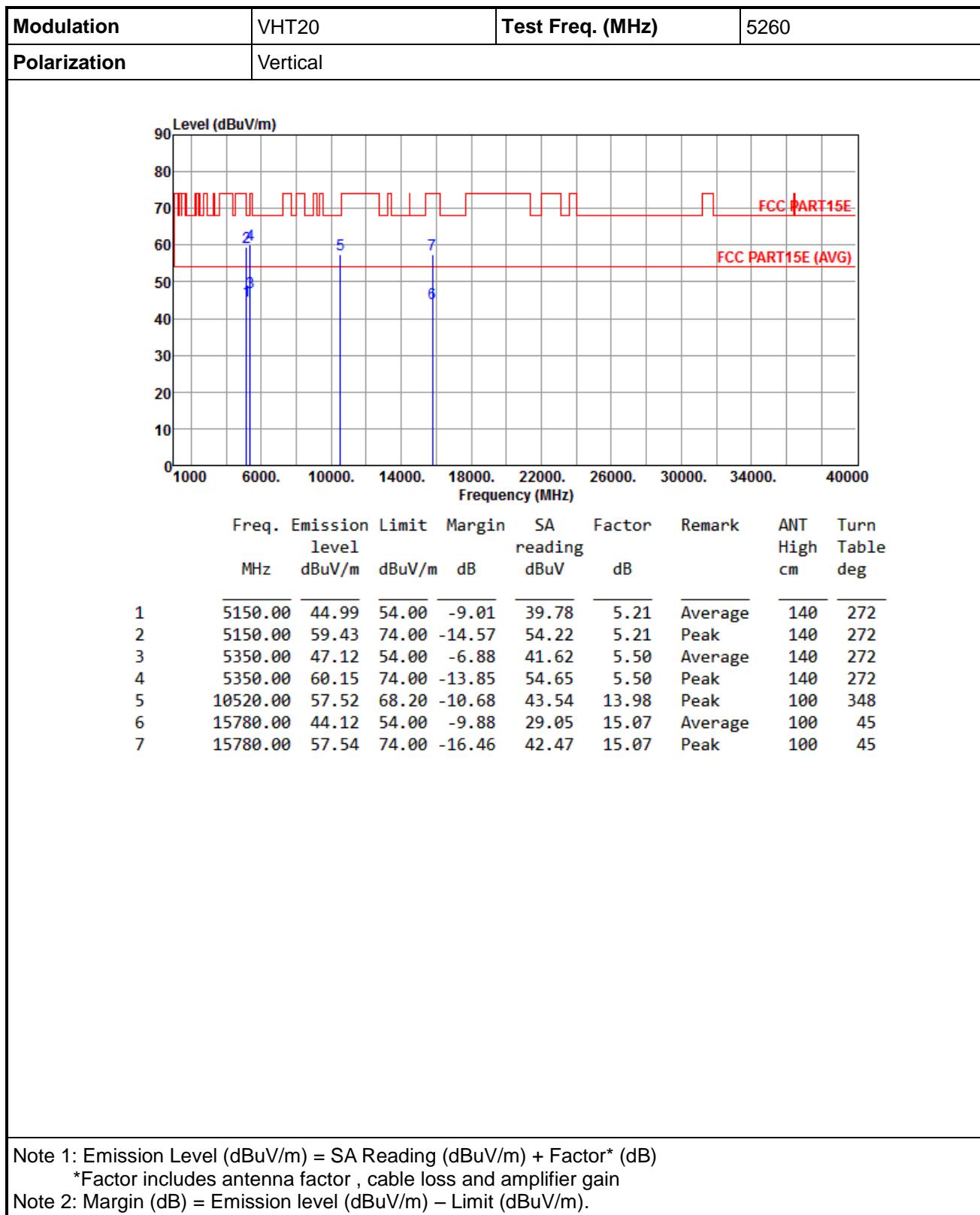
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Modulation	VHT20	Test Freq. (MHz)	5260																																																																															
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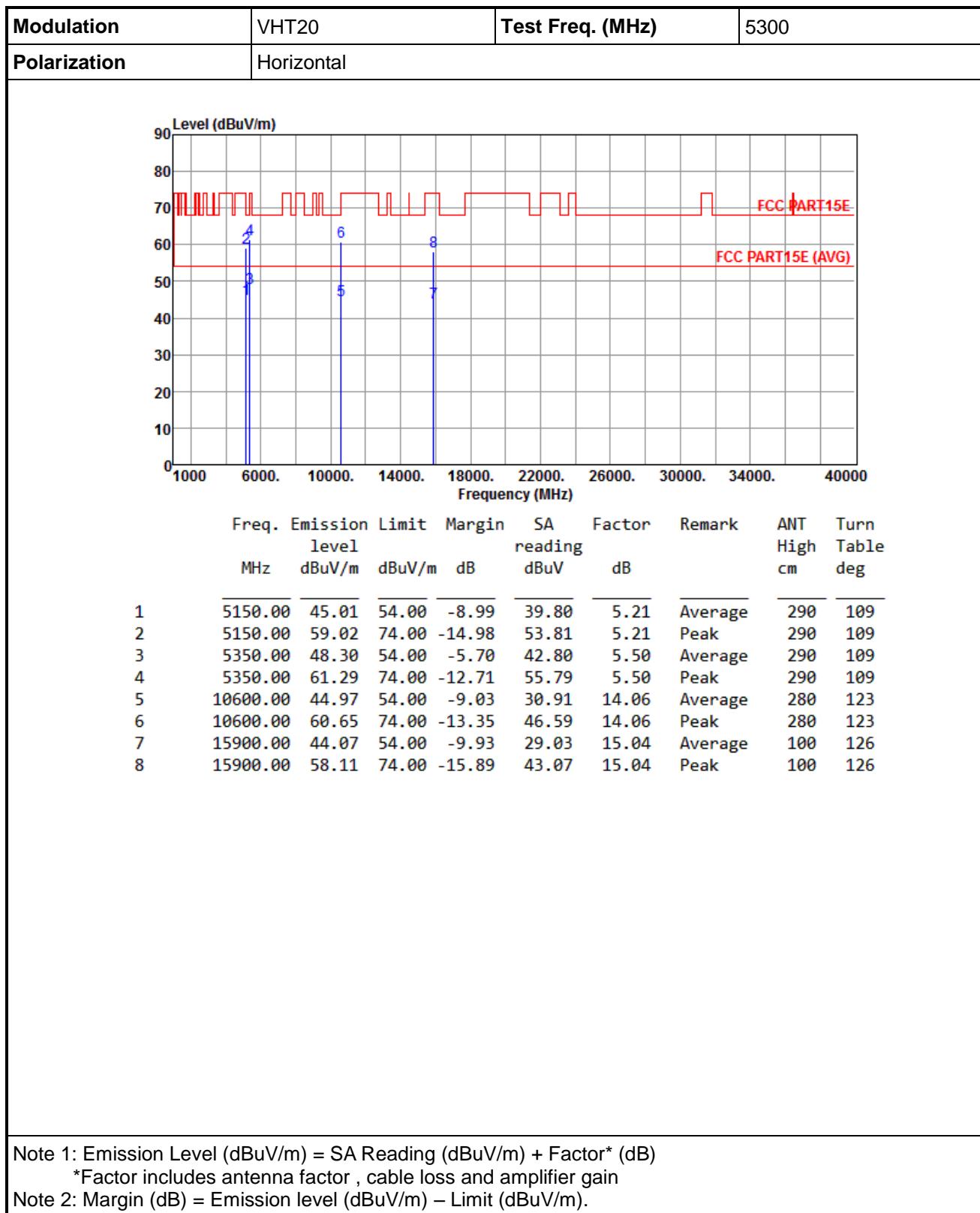
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

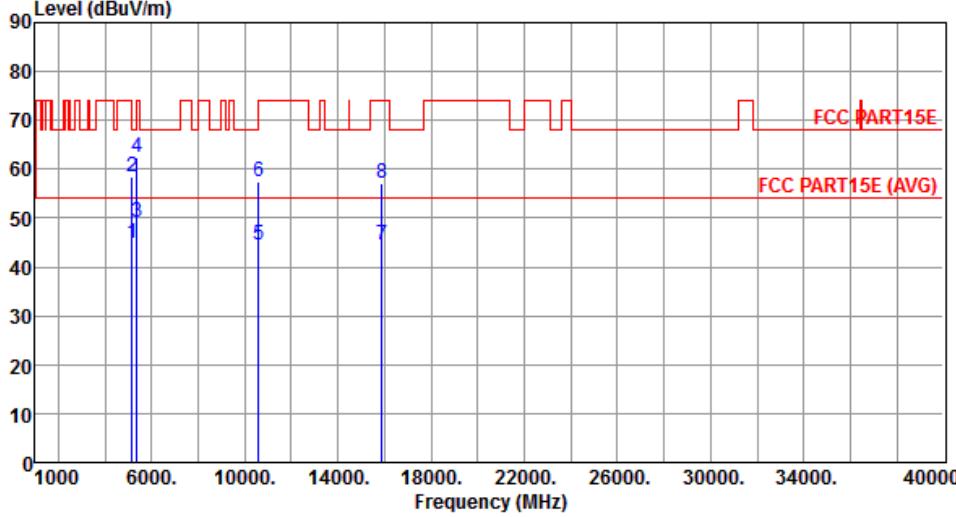


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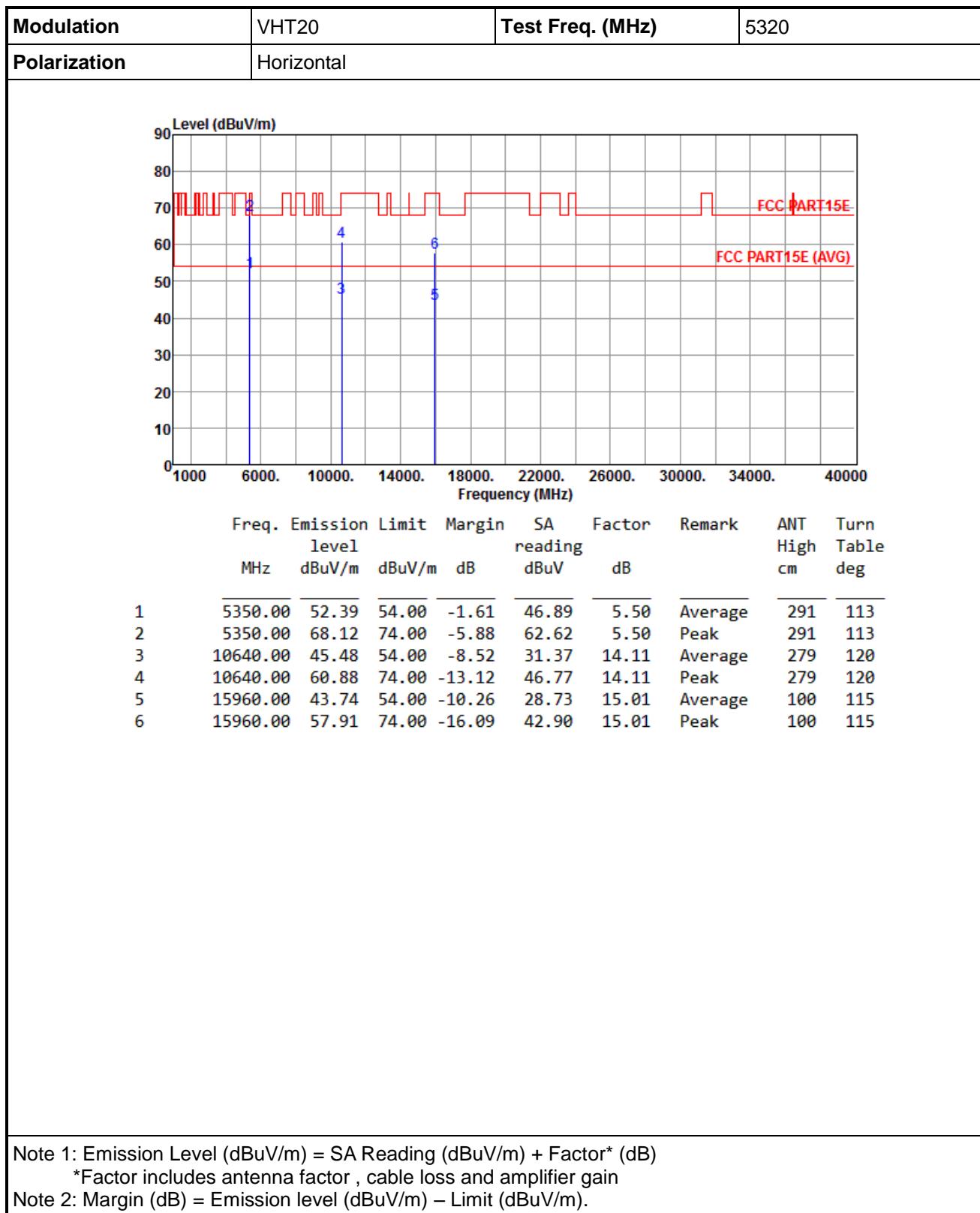


Modulation	VHT20	Test Freq. (MHz)	5300																																				
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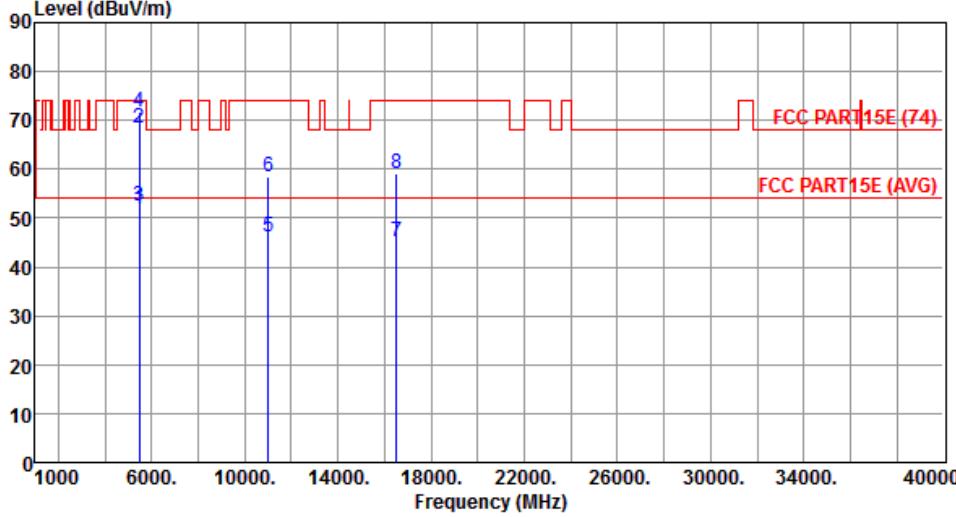


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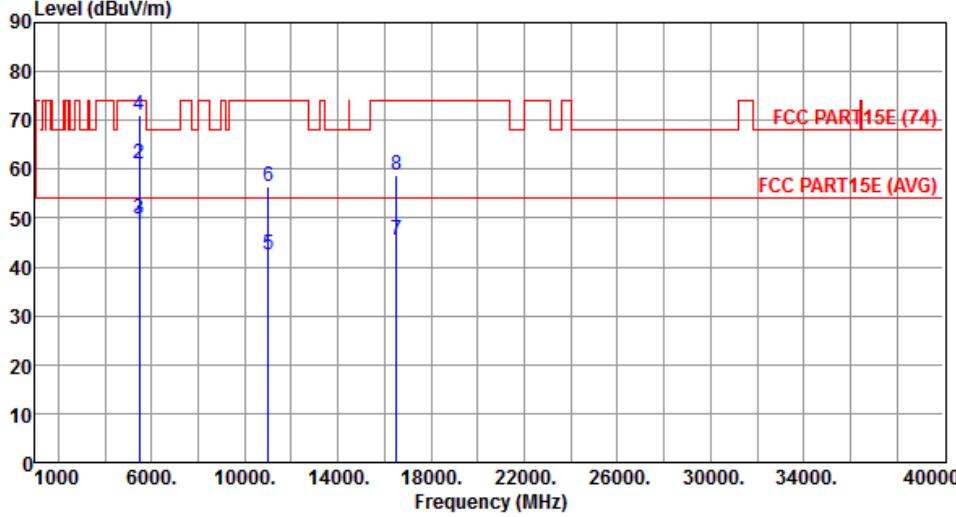
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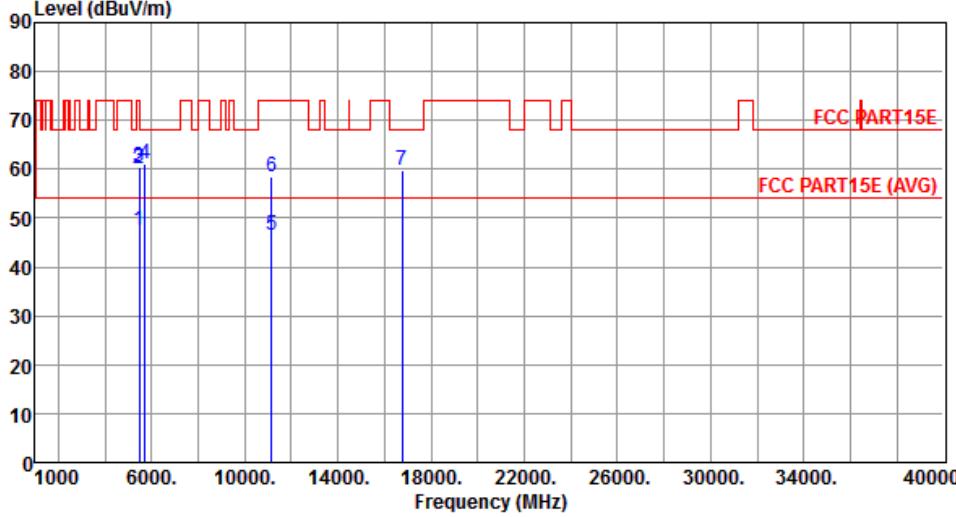
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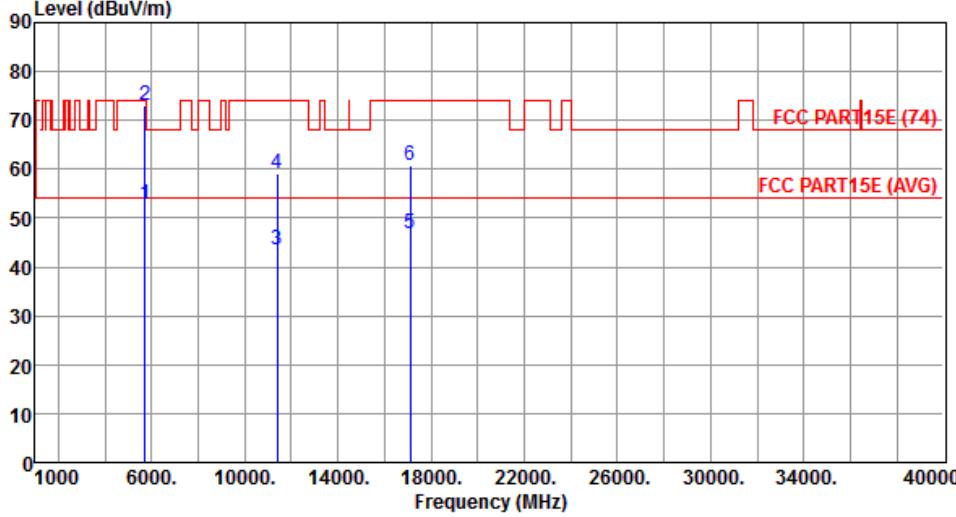
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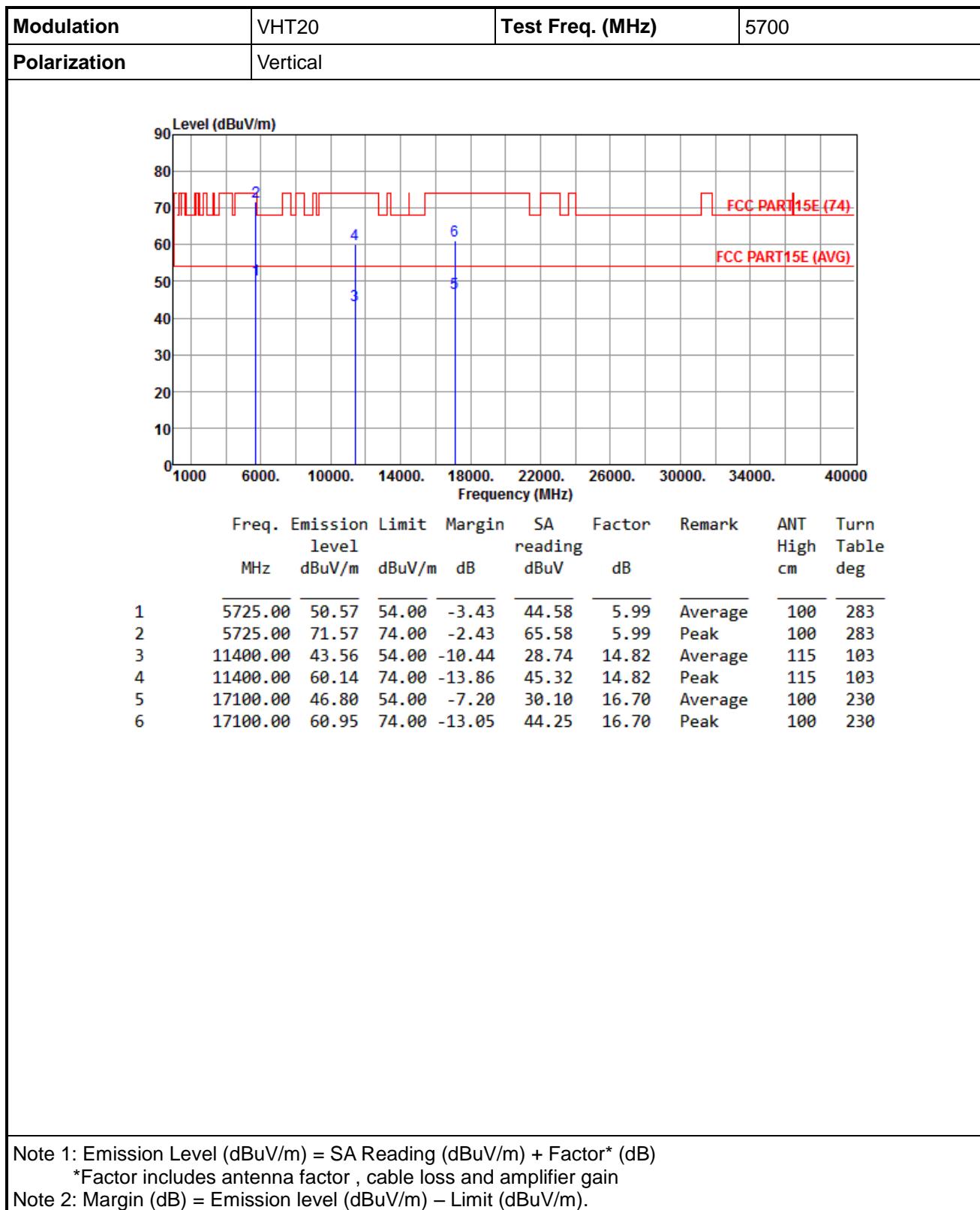
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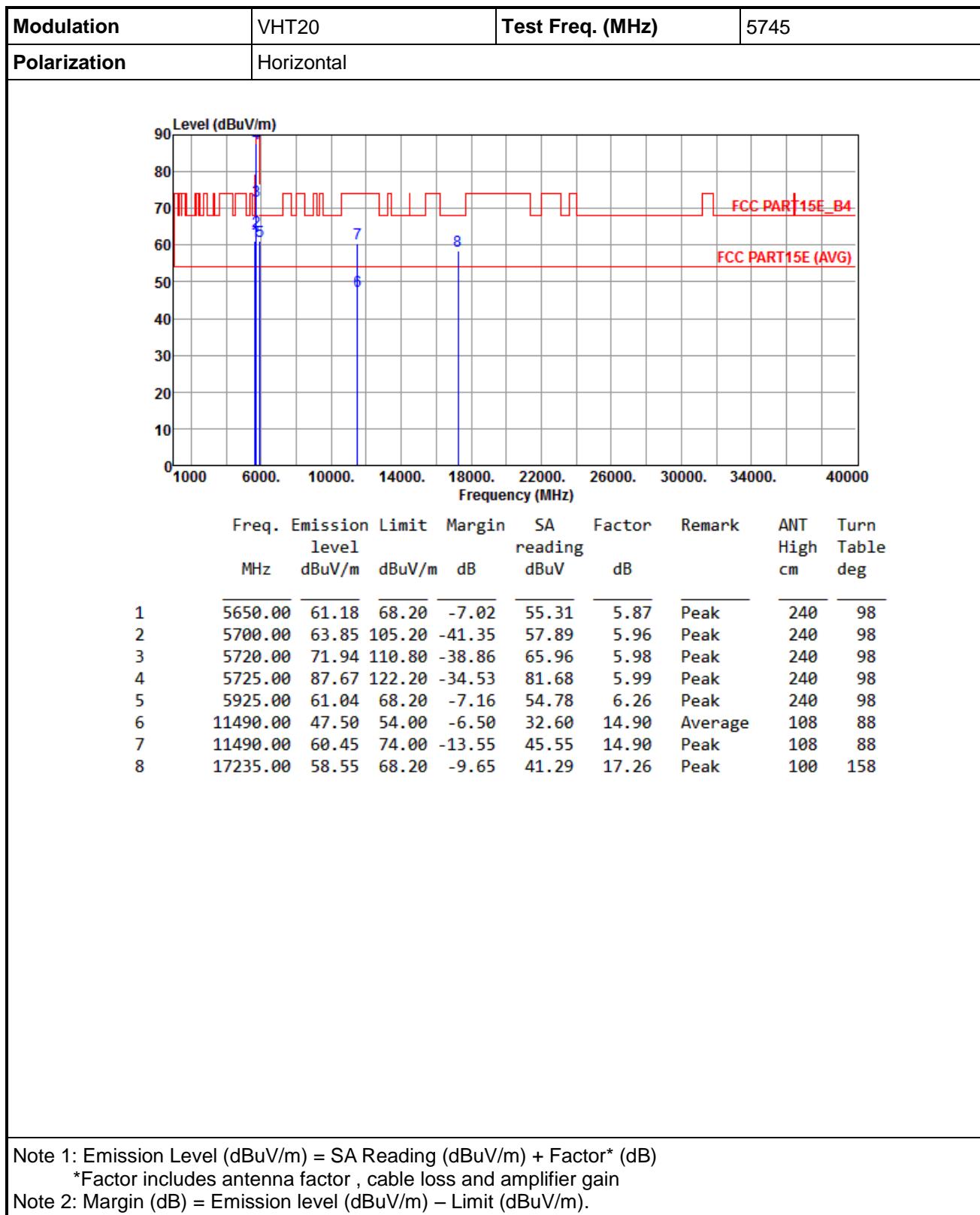
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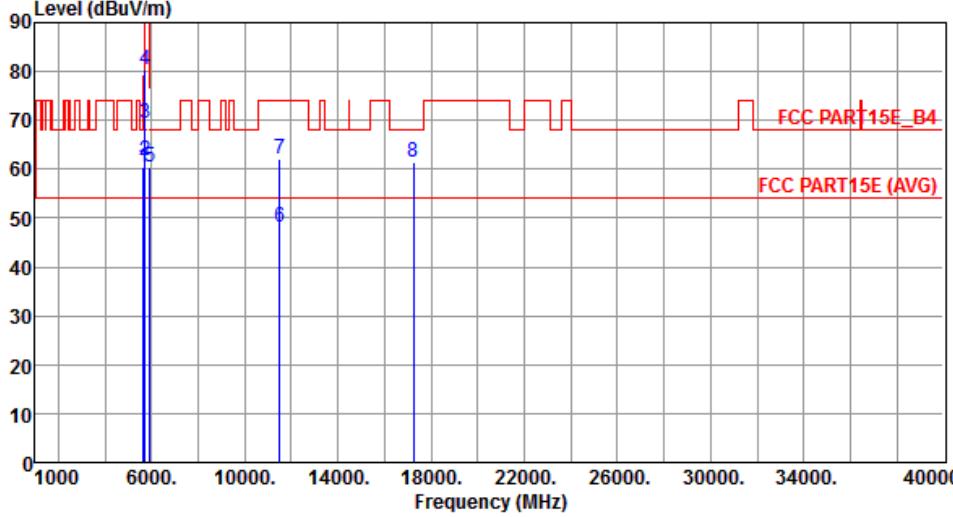
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Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



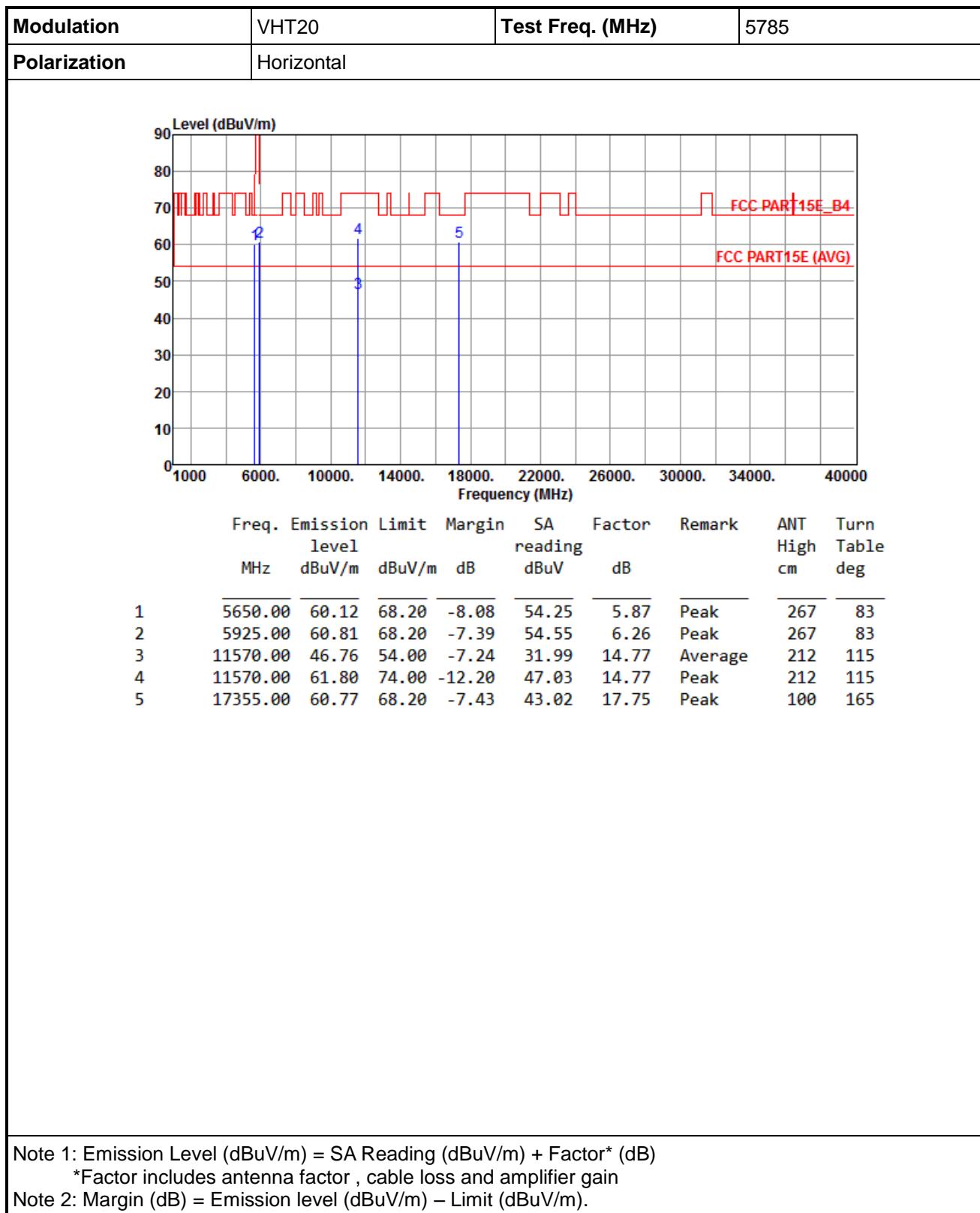


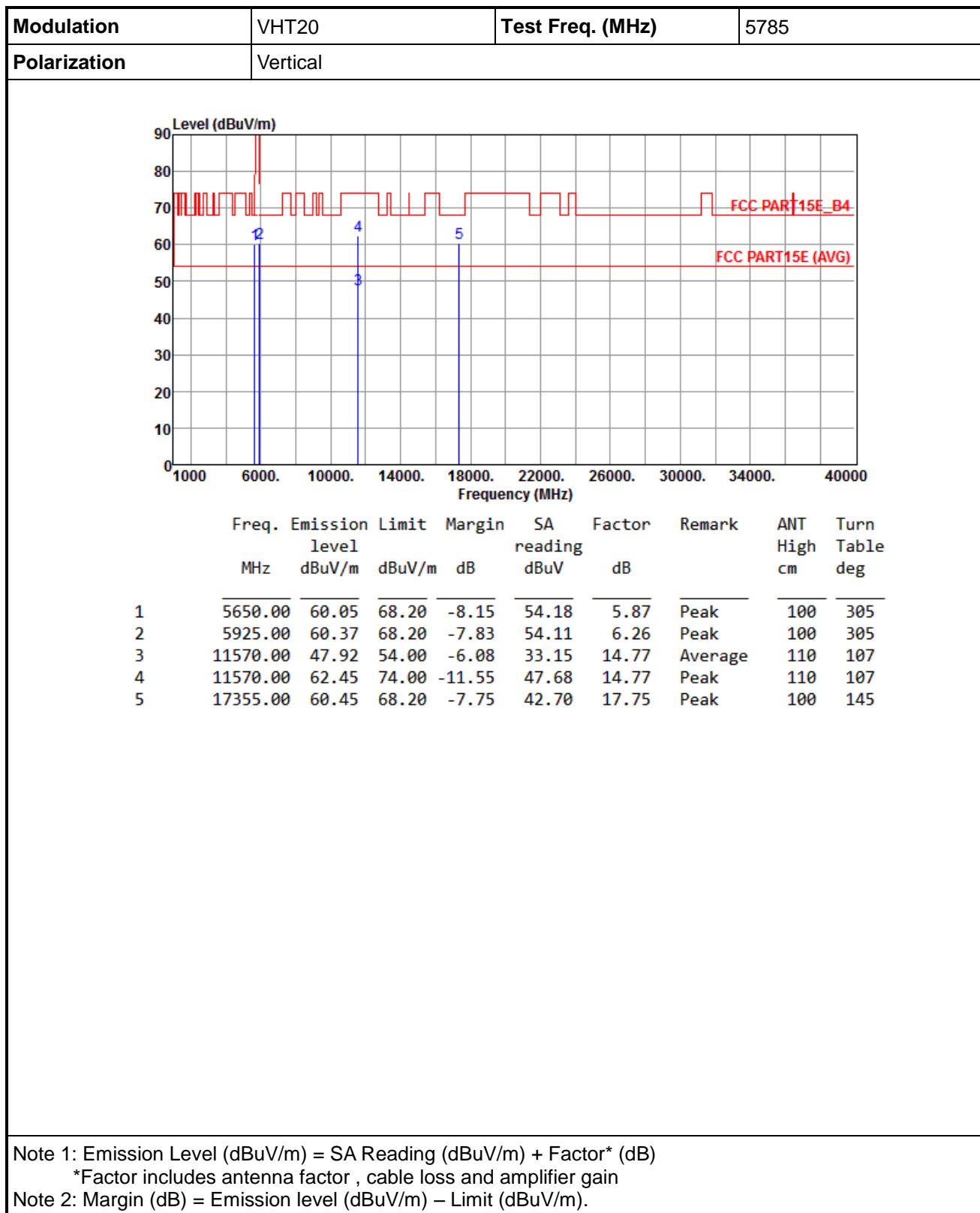
Modulation	VHT20	Test Freq. (MHz)	5745																																																																																									
Polarization	Vertical																																																																																											
																																																																																												
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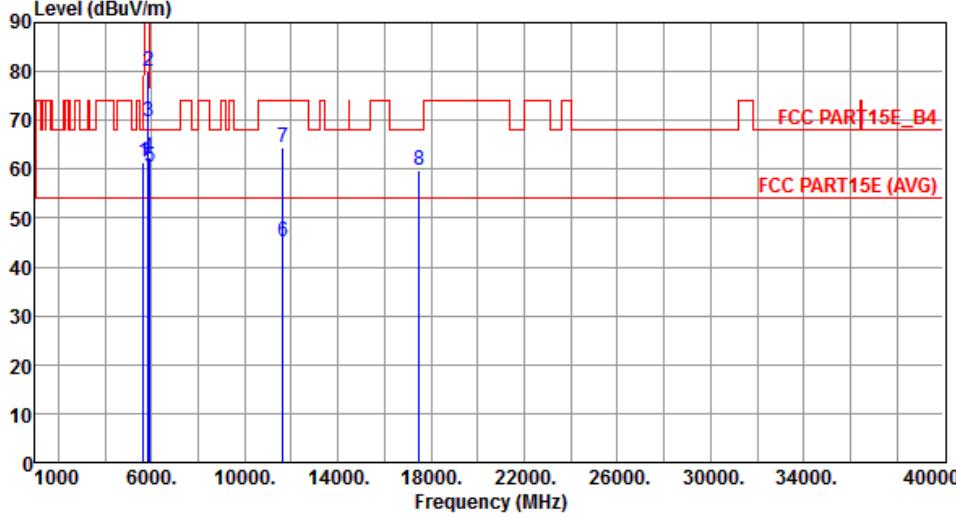
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



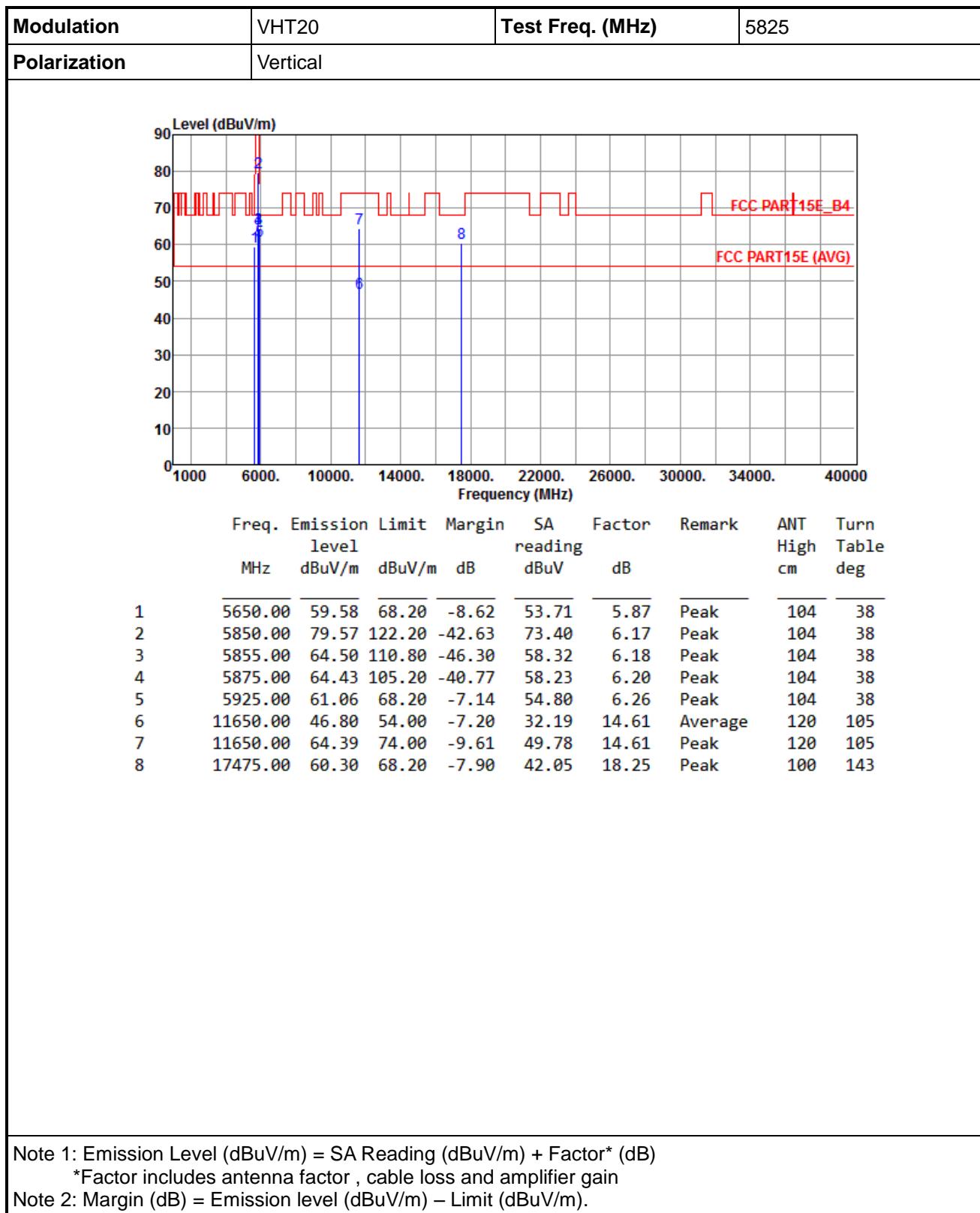


Modulation	VHT20	Test Freq. (MHz)	5825																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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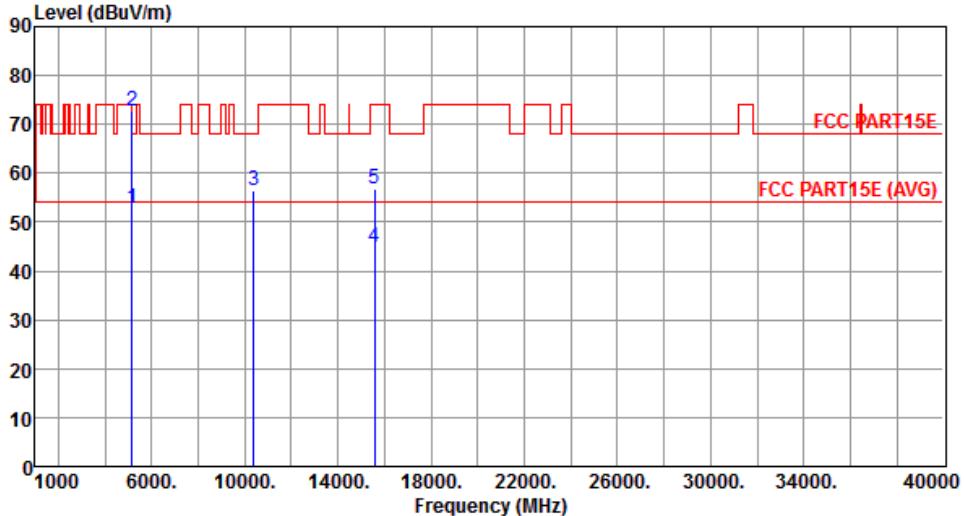
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

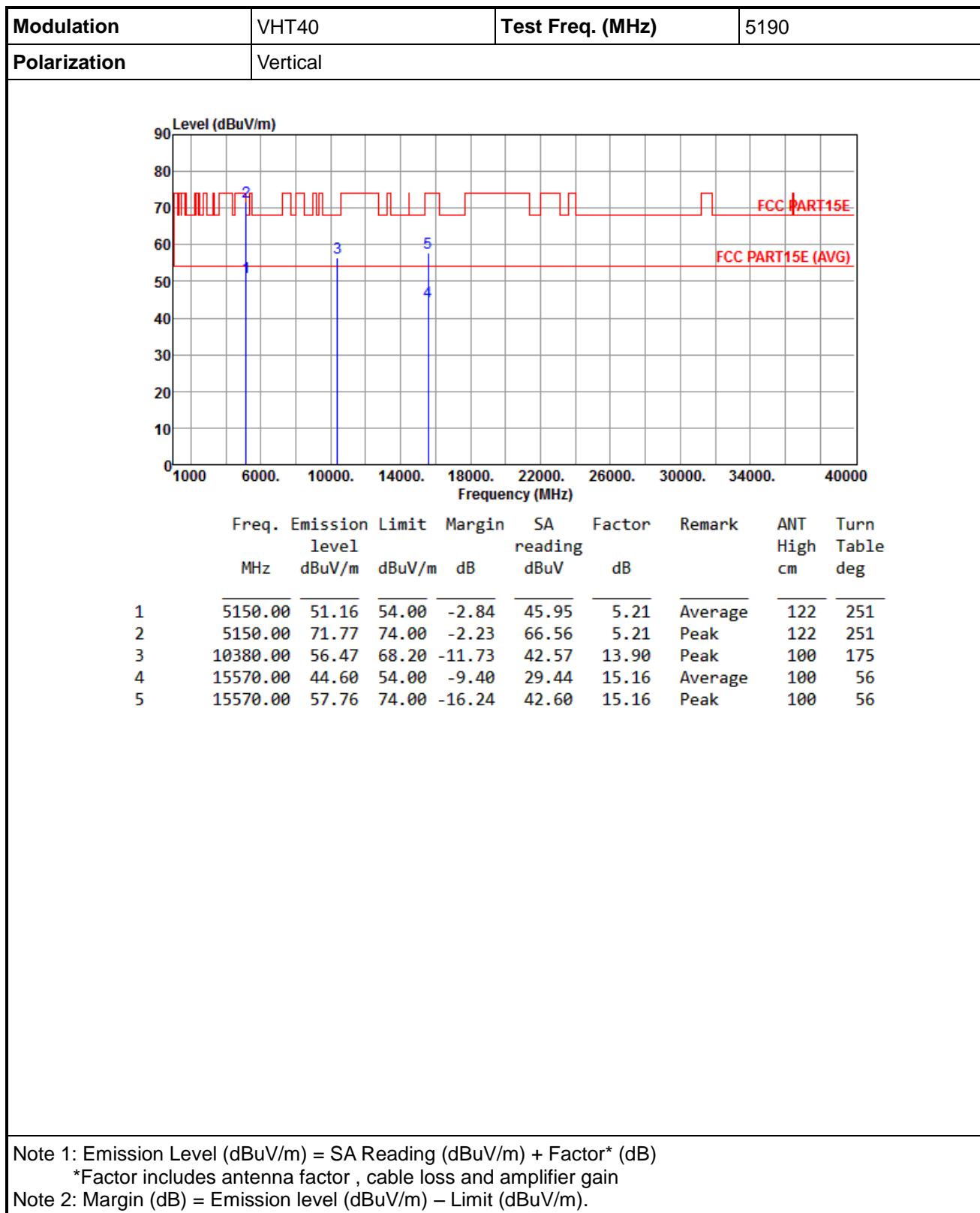
*Factor includes antenna factor , cable loss and amplifier gain

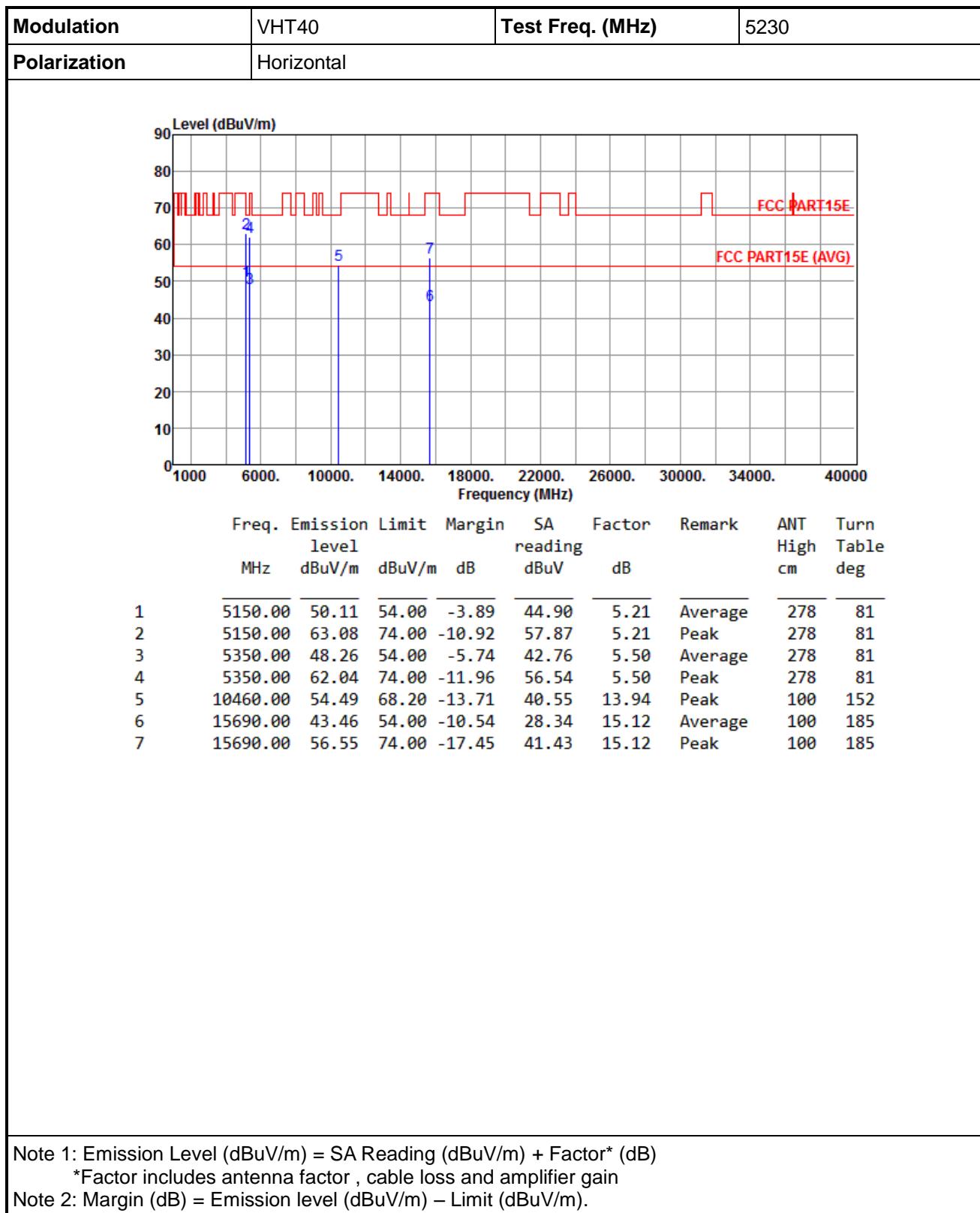
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

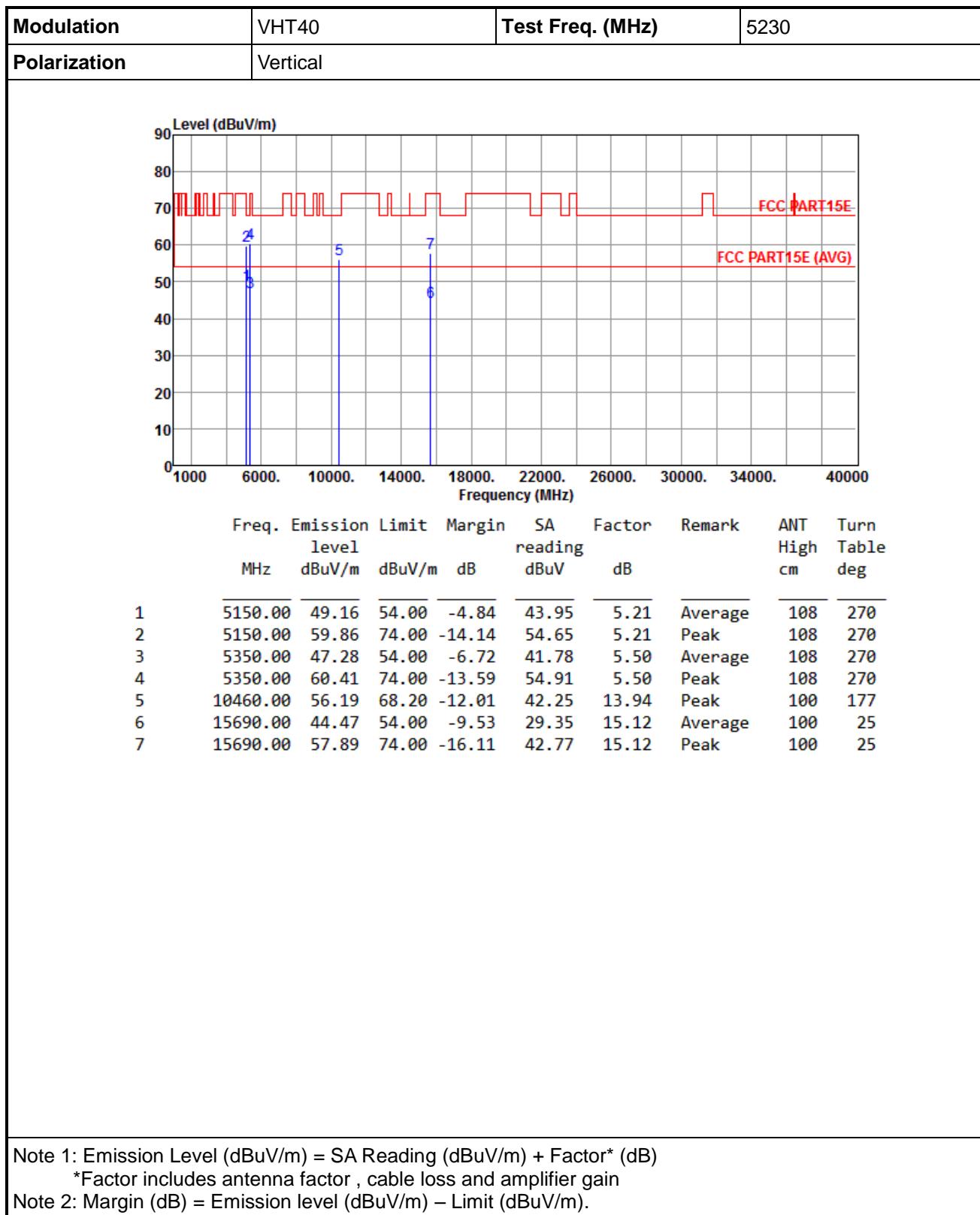


3.5.20 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190																																																											
Polarization	Horizontal																																																													
																																																														
<table border="1"> <thead> <tr> <th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr> </thead> <tbody> <tr> <td>1</td><td>5150.00</td><td>52.75</td><td>54.00</td><td>-1.25</td><td>47.54</td><td>5.21</td><td>Average</td><td>263</td><td>93</td></tr> <tr> <td>2</td><td>5150.00</td><td>72.76</td><td>74.00</td><td>-1.24</td><td>67.55</td><td>5.21</td><td>Peak</td><td>263</td><td>93</td></tr> <tr> <td>3</td><td>10380.00</td><td>56.46</td><td>68.20</td><td>-11.74</td><td>42.56</td><td>13.90</td><td>Peak</td><td>100</td><td>155</td></tr> <tr> <td>4</td><td>15570.00</td><td>44.69</td><td>54.00</td><td>-9.31</td><td>29.53</td><td>15.16</td><td>Average</td><td>100</td><td>196</td></tr> <tr> <td>5</td><td>15570.00</td><td>56.93</td><td>74.00</td><td>-17.07</td><td>41.77</td><td>15.16</td><td>Peak</td><td>100</td><td>196</td></tr> </tbody> </table>				Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	52.75	54.00	-1.25	47.54	5.21	Average	263	93	2	5150.00	72.76	74.00	-1.24	67.55	5.21	Peak	263	93	3	10380.00	56.46	68.20	-11.74	42.56	13.90	Peak	100	155	4	15570.00	44.69	54.00	-9.31	29.53	15.16	Average	100	196	5	15570.00	56.93	74.00	-17.07	41.77	15.16	Peak	100	196
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																						
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3	10380.00	56.46	68.20	-11.74	42.56	13.90	Peak	100	155																																																					
4	15570.00	44.69	54.00	-9.31	29.53	15.16	Average	100	196																																																					
5	15570.00	56.93	74.00	-17.07	41.77	15.16	Peak	100	196																																																					
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>																																																														



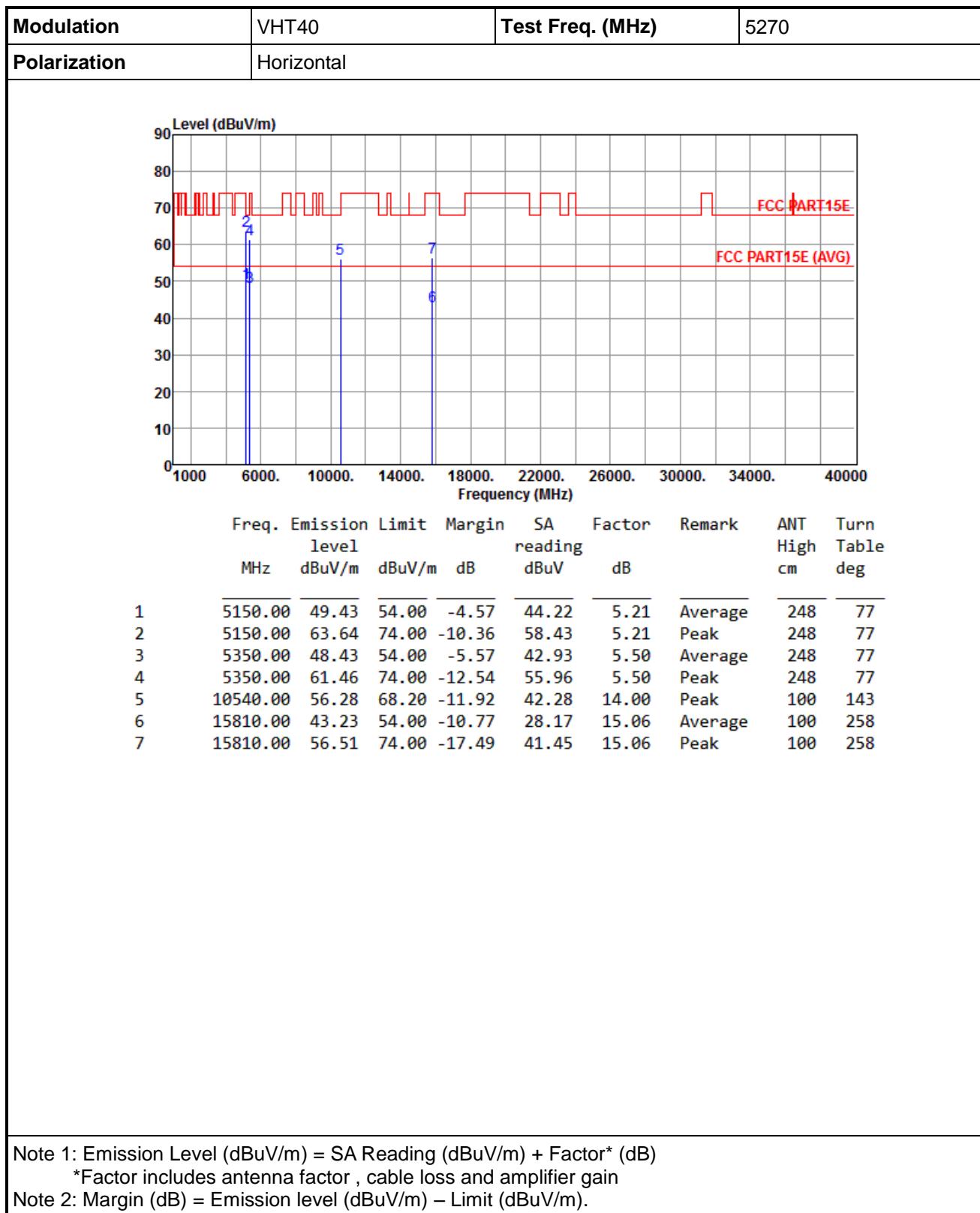


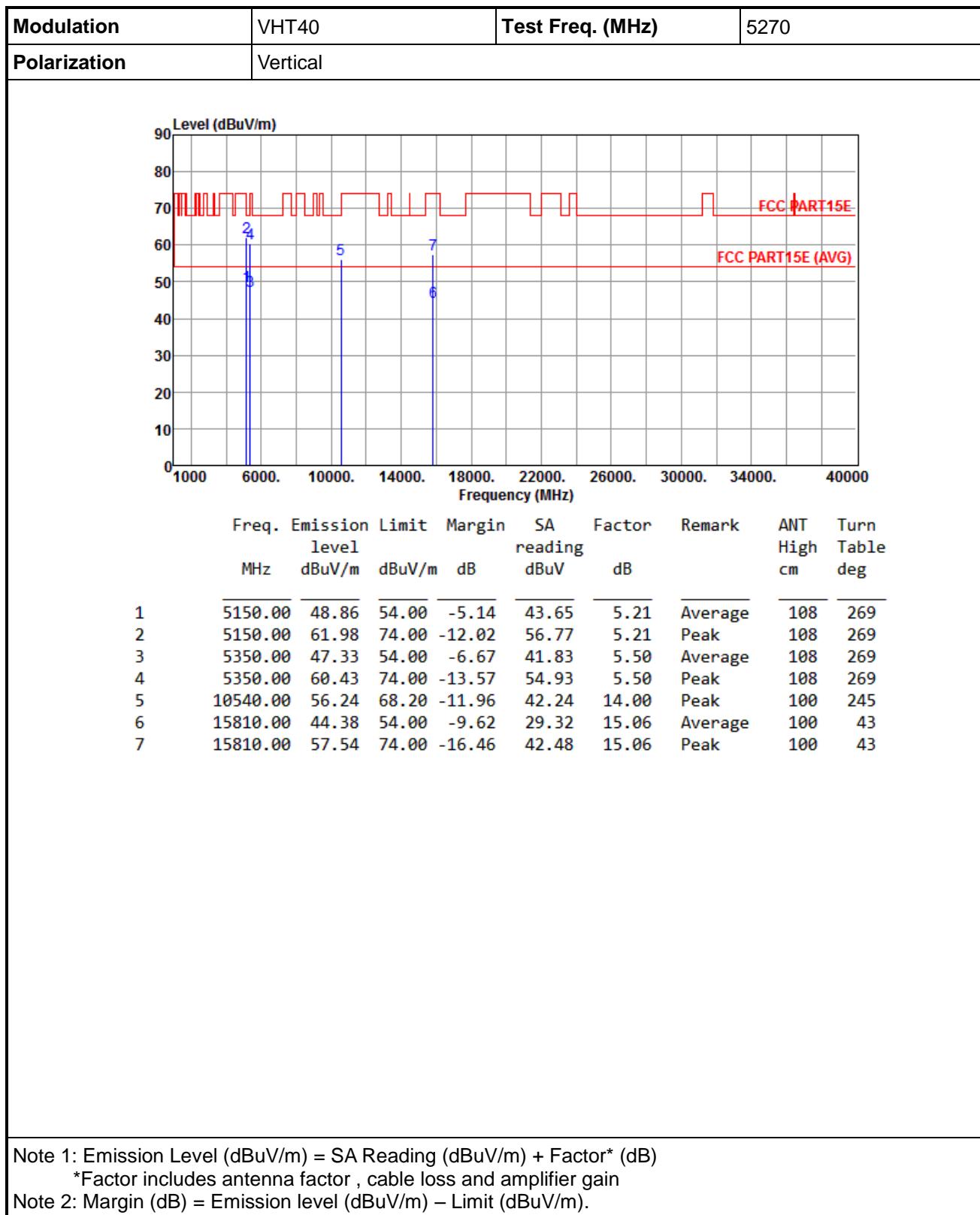


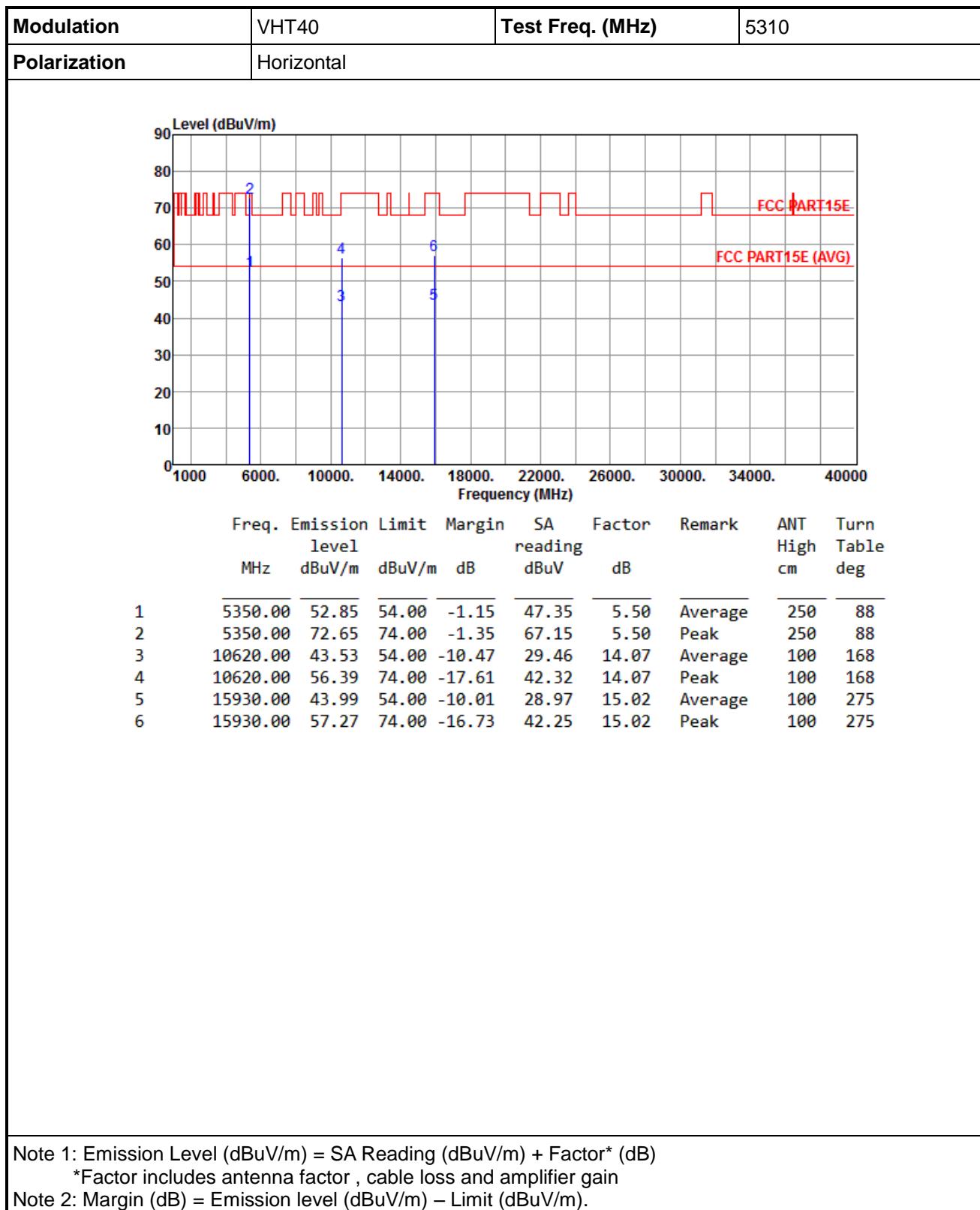
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

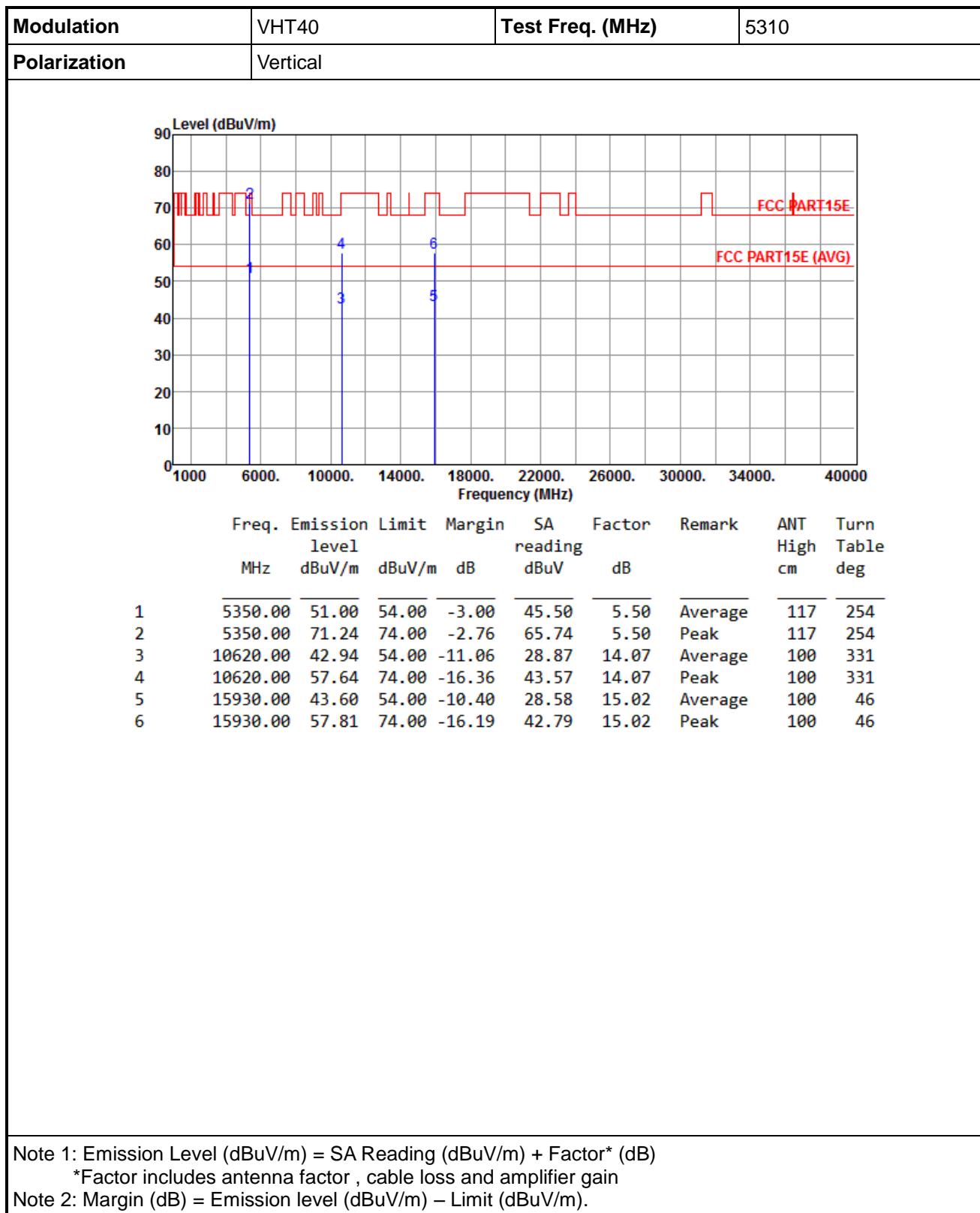
*Factor includes antenna factor , cable loss and amplifier gain

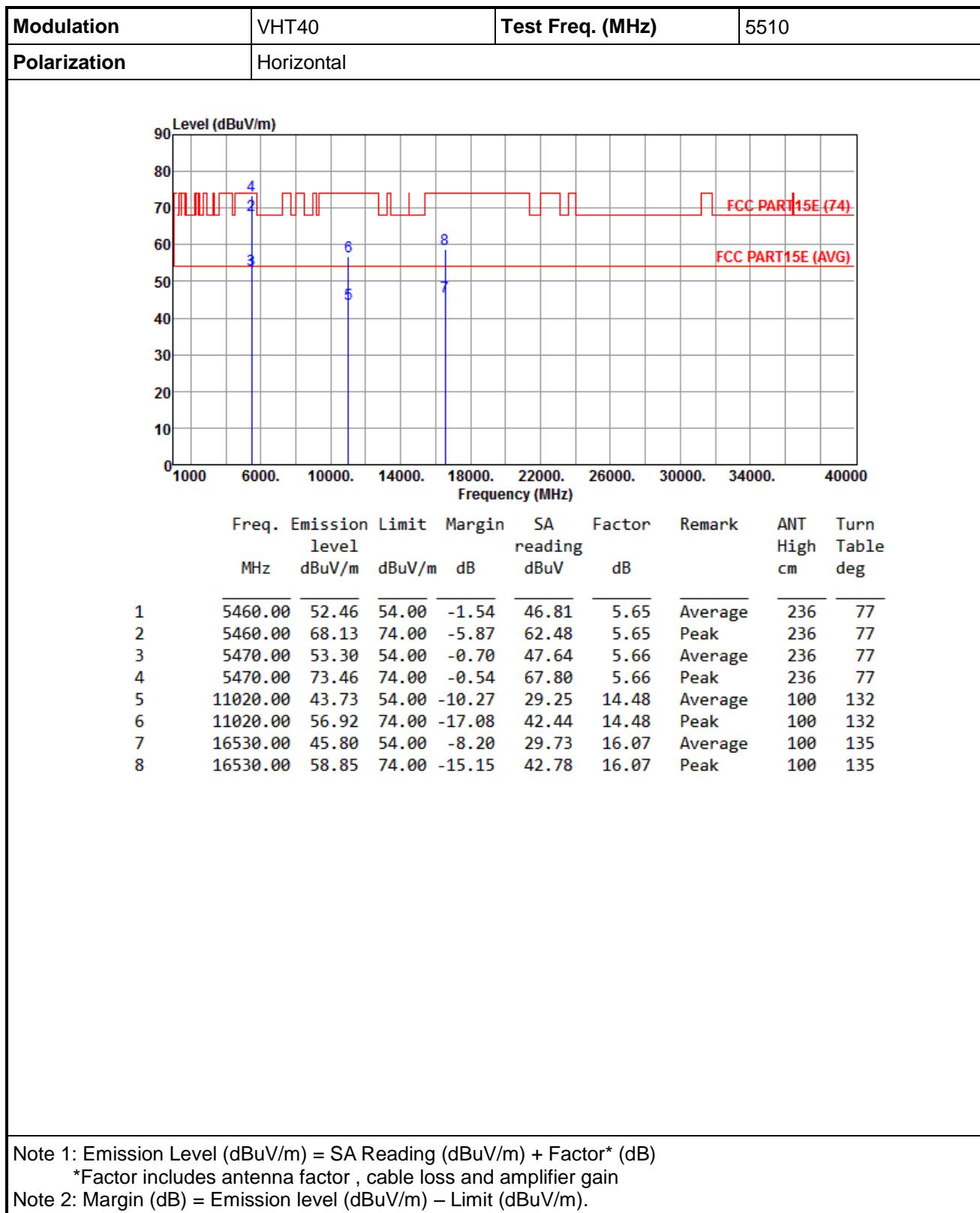
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

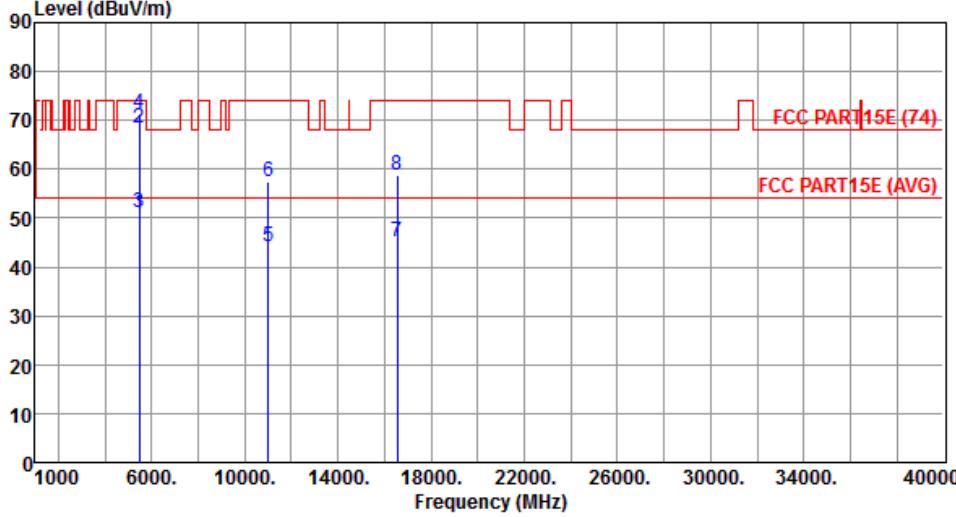








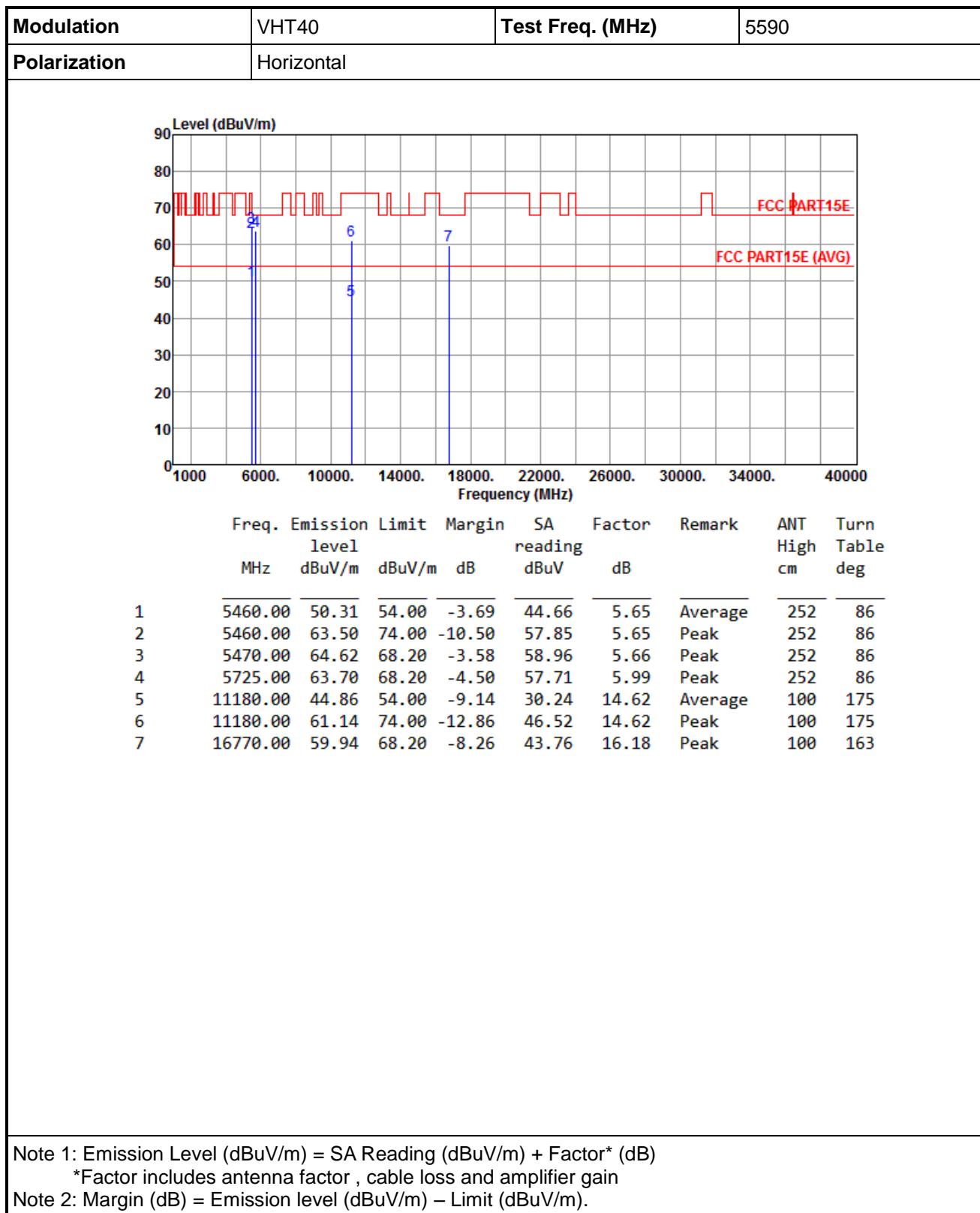


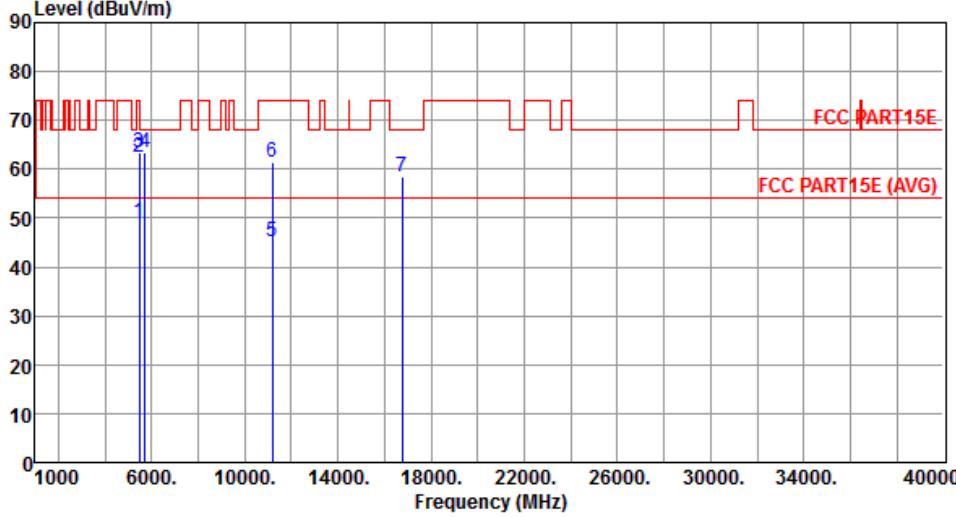
Modulation	VHT40	Test Freq. (MHz)	5510																																																																																									
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

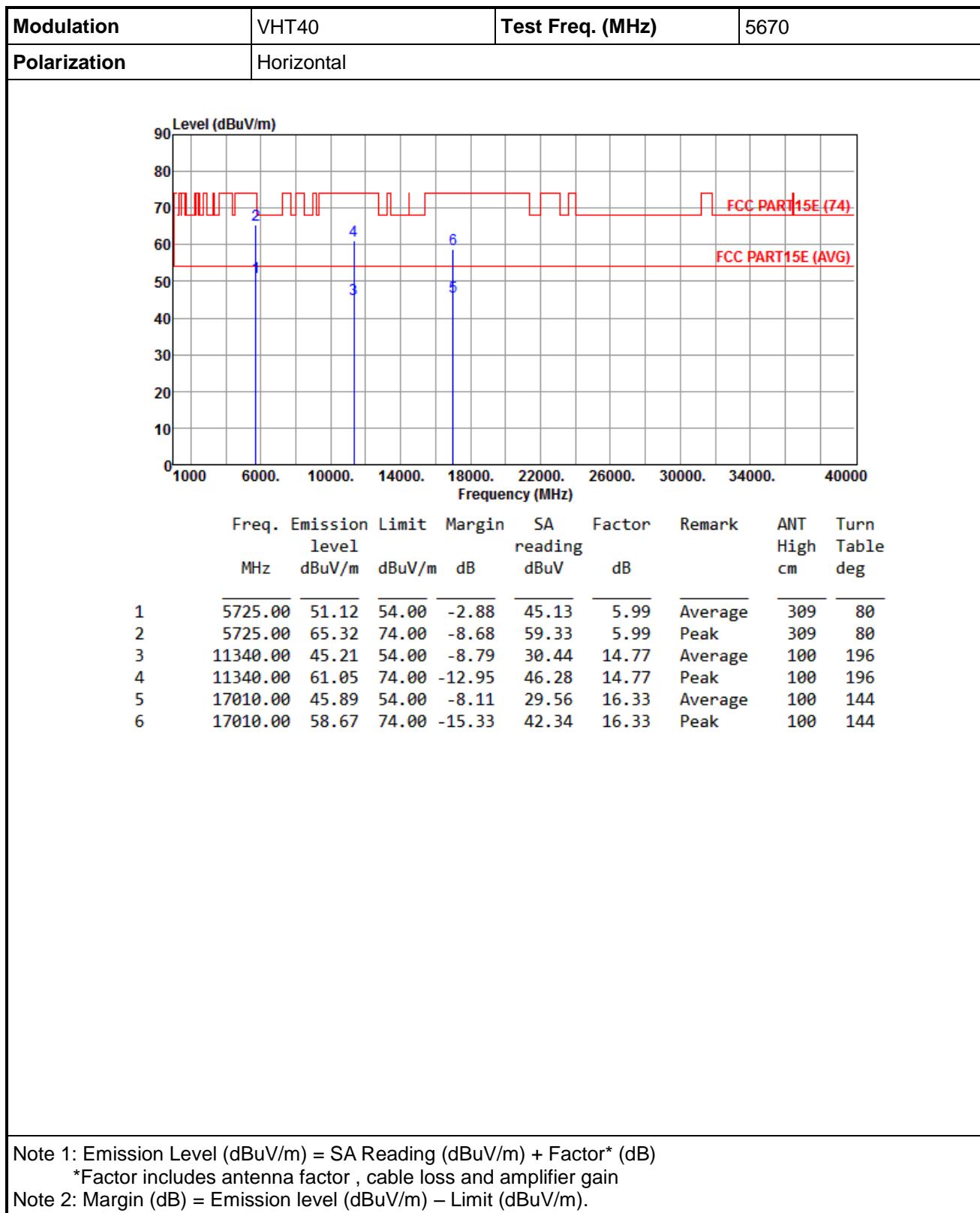


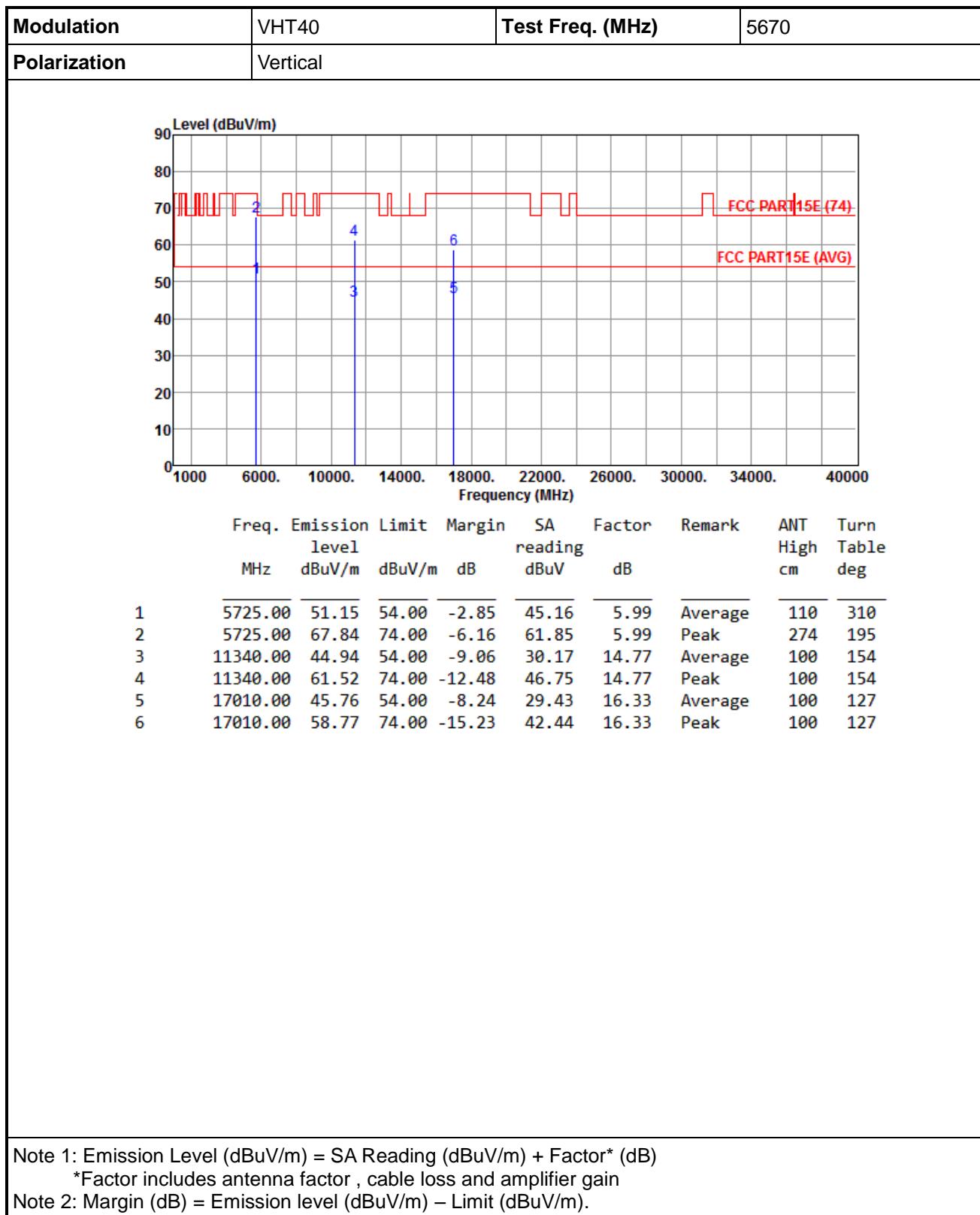
Modulation	VHT40	Test Freq. (MHz)	5590																																																																																								
Polarization	Vertical																																																																																										
																																																																																											
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Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																			
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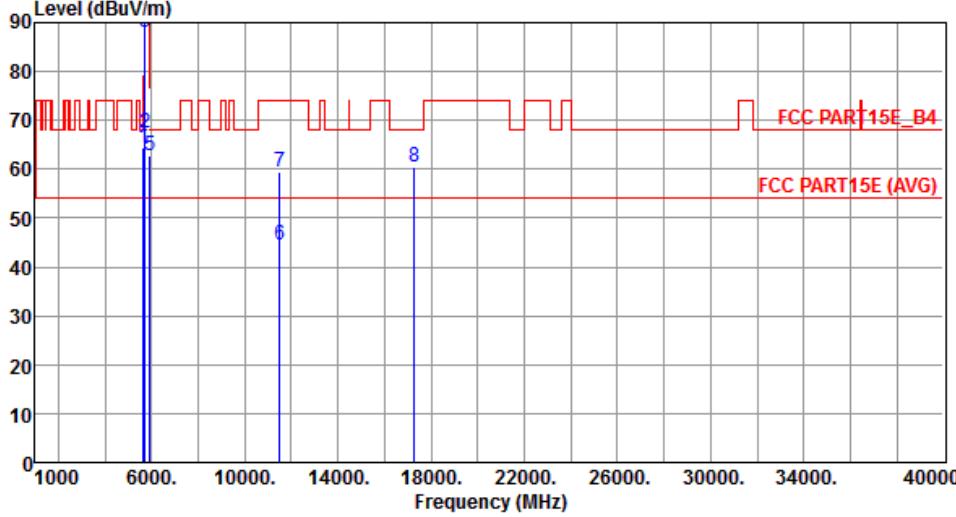
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



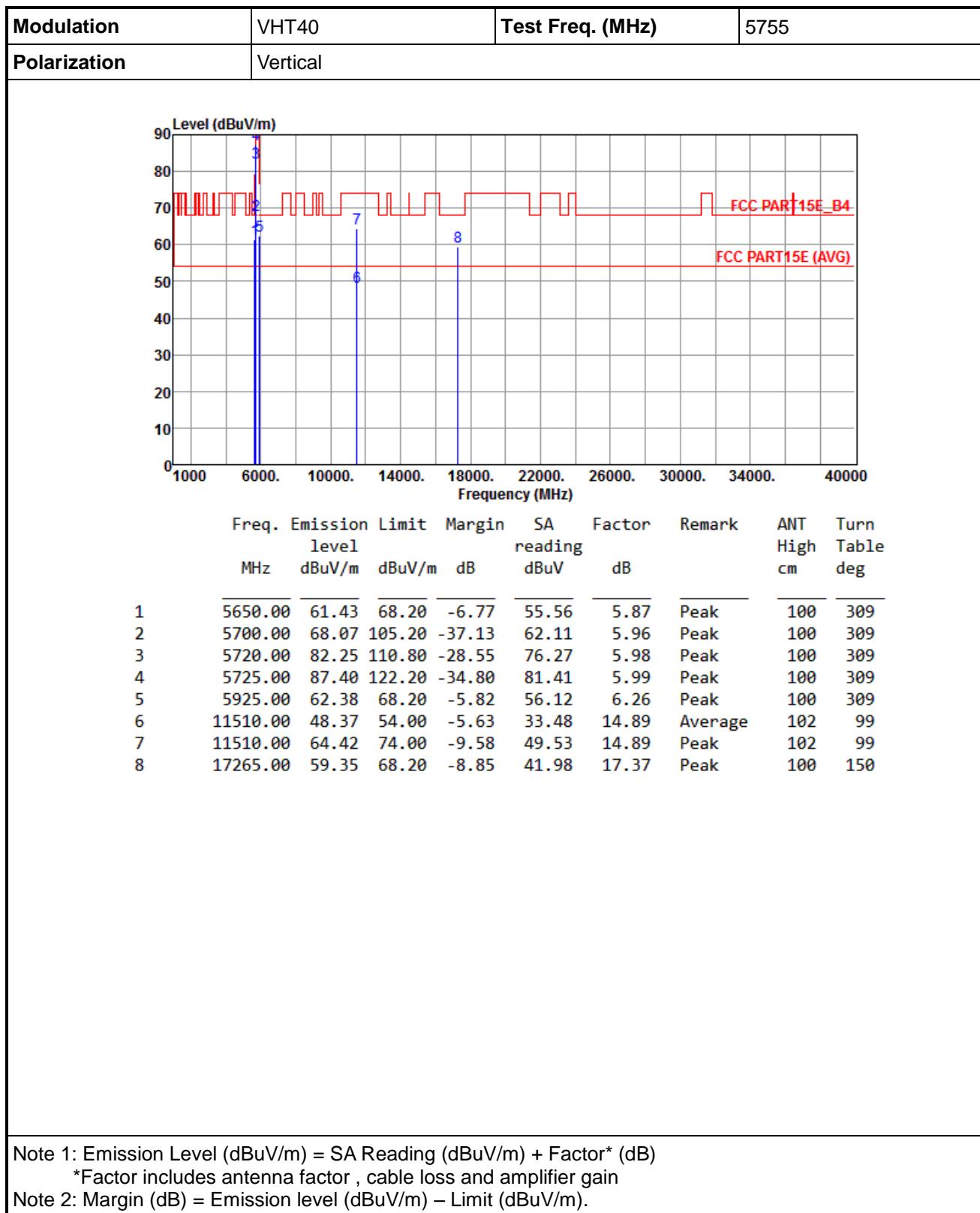


Modulation	VHT40	Test Freq. (MHz)	5755																																																																																																		
Polarization	Horizontal																																																																																																				
																																																																																																					
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

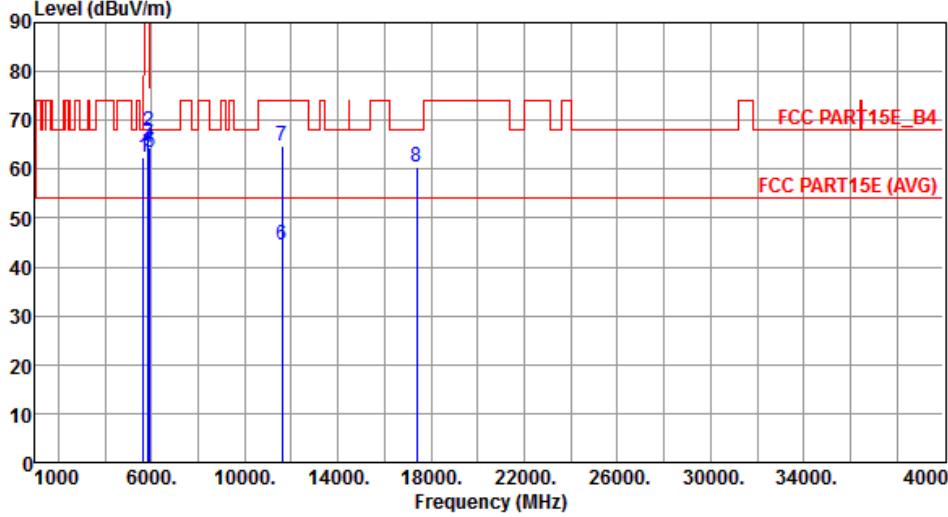
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

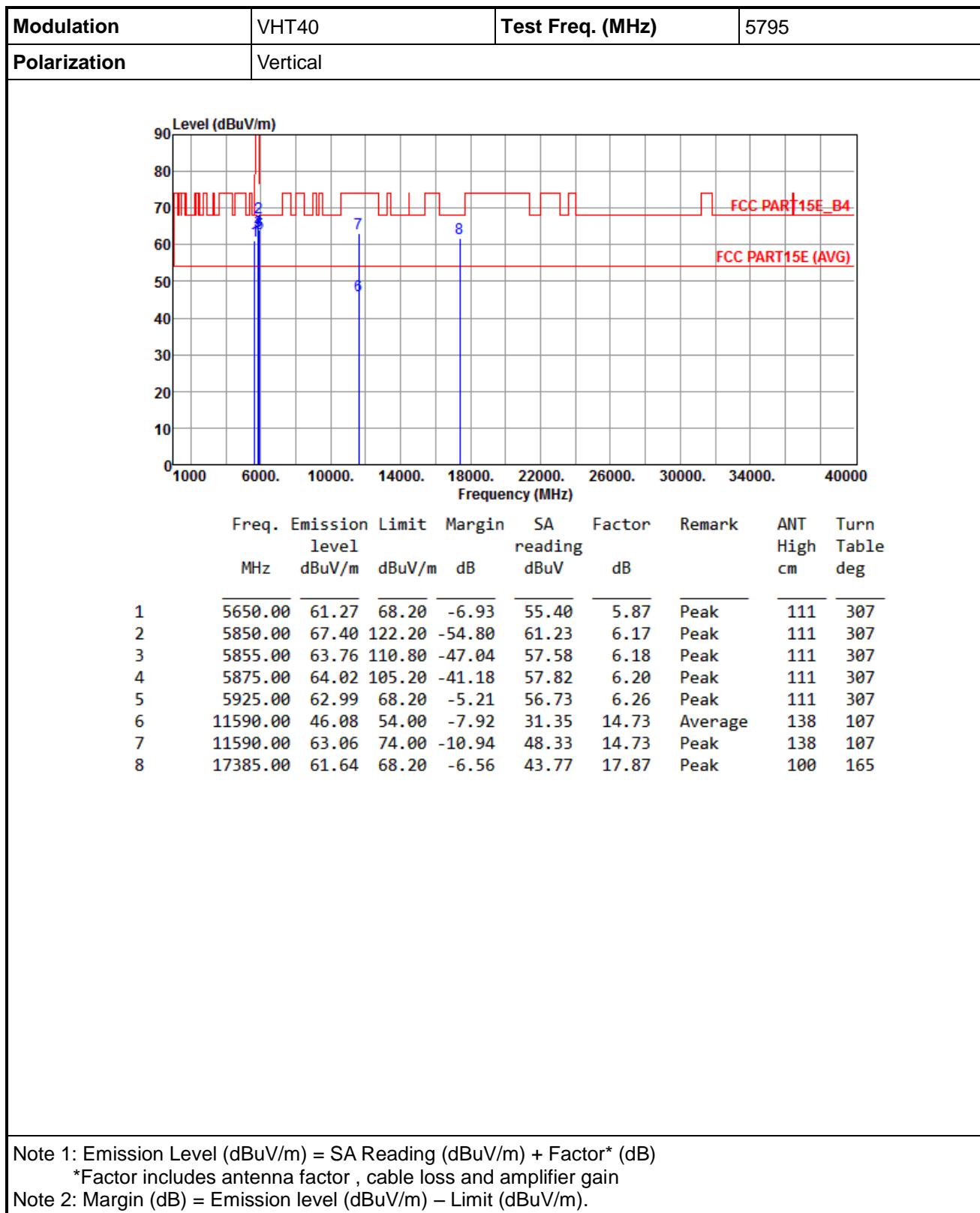
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5795																																																																																									
Polarization	Horizontal																																																																																											
																																																																																												
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Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
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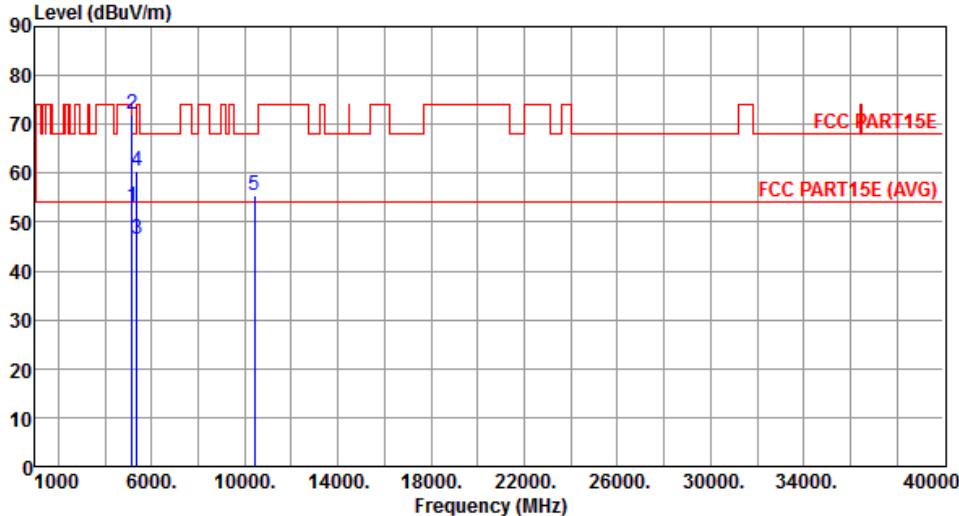
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

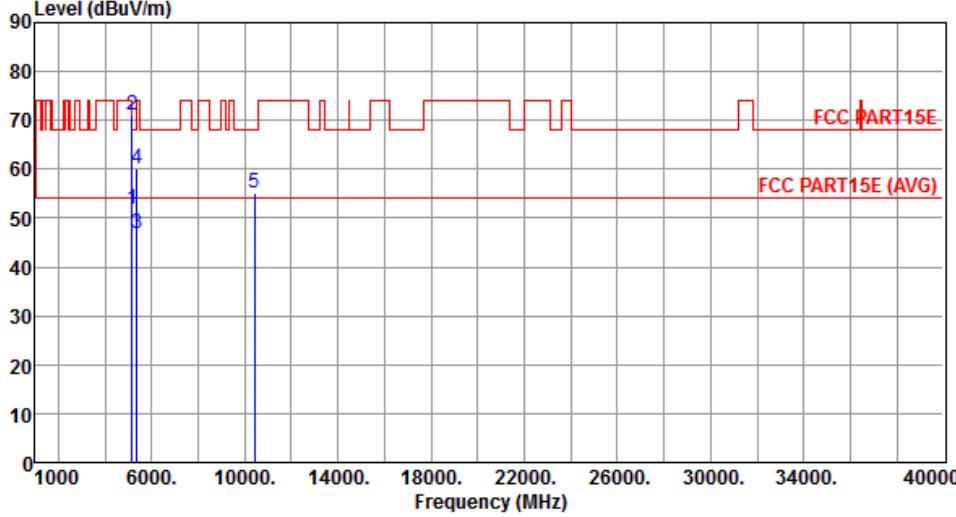
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



3.5.21 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

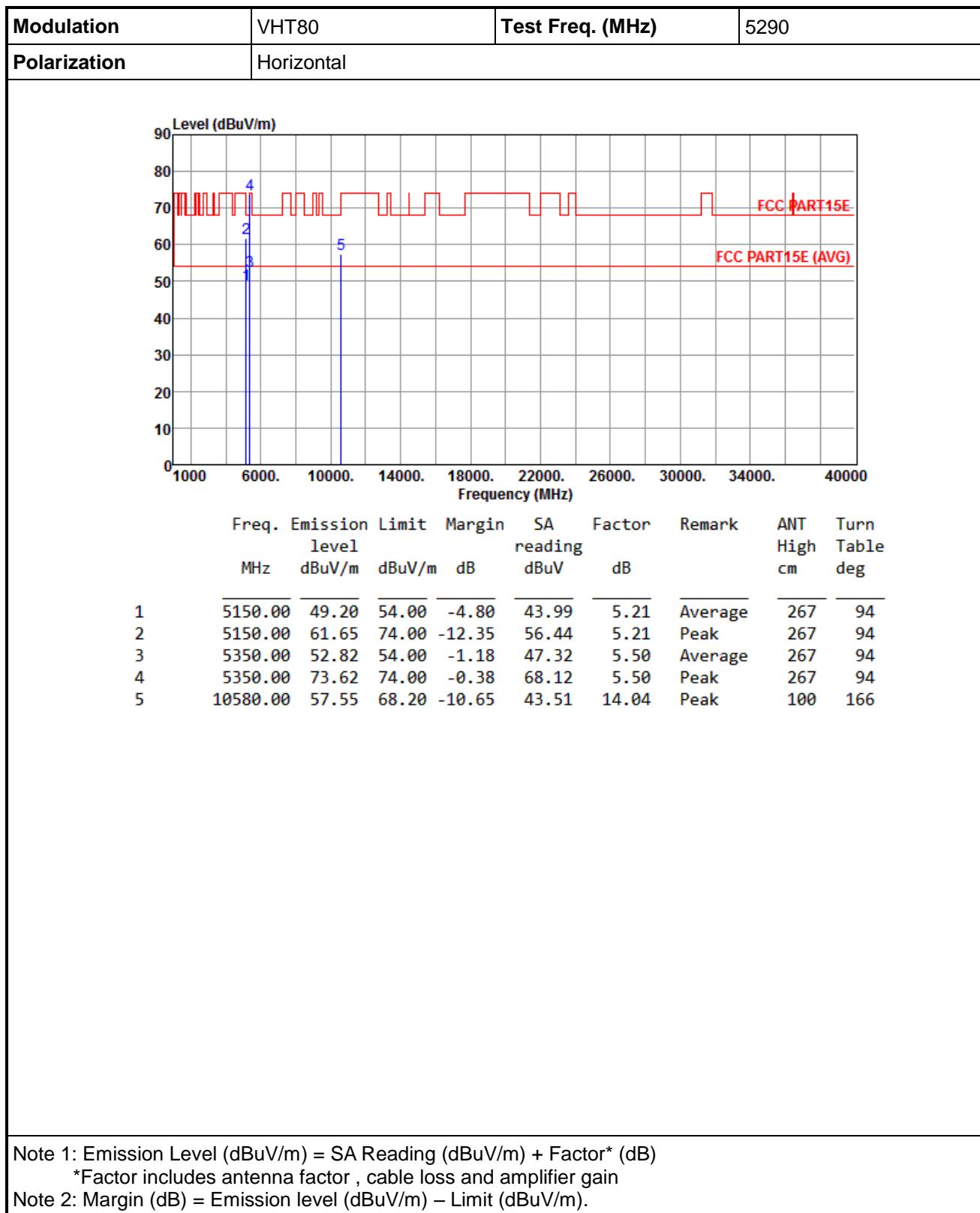
Modulation	VHT80	Test Freq. (MHz)	5210																																																											
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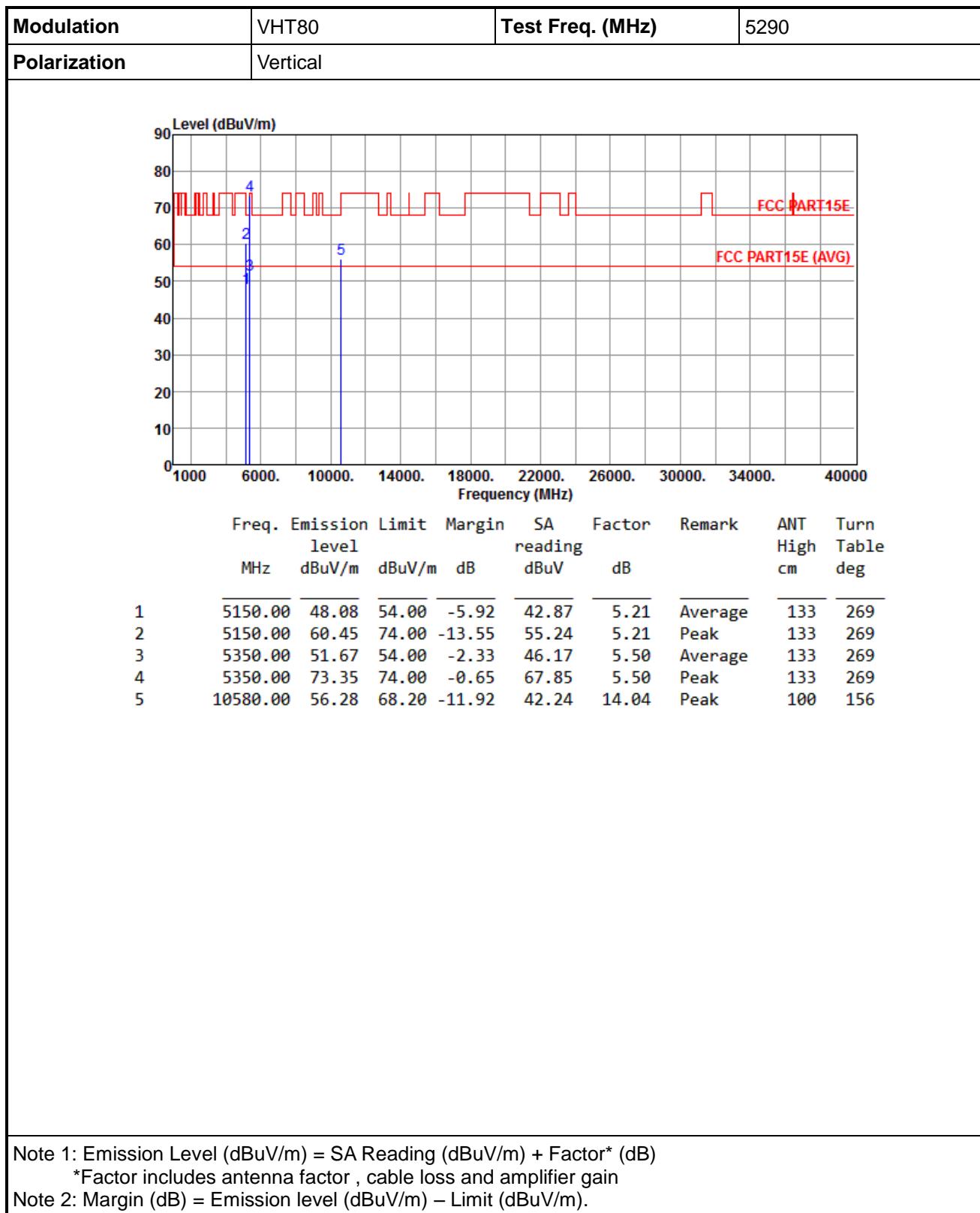
Modulation	VHT80	Test Freq. (MHz)	5210																																																						
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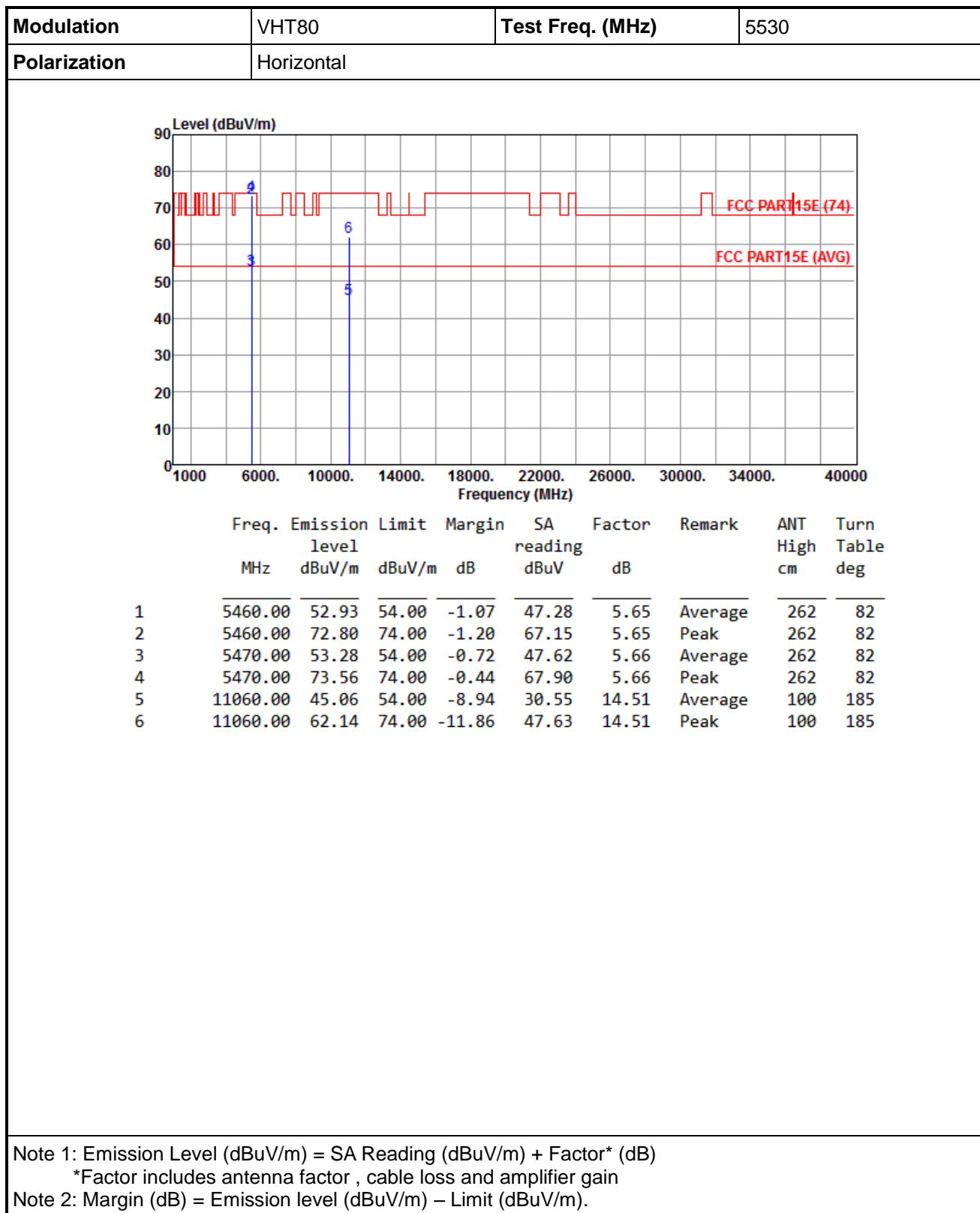
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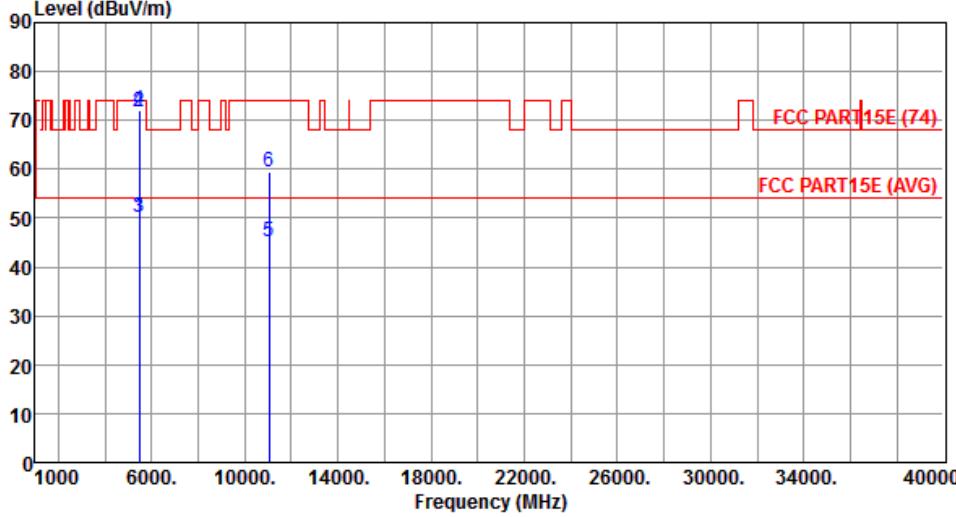
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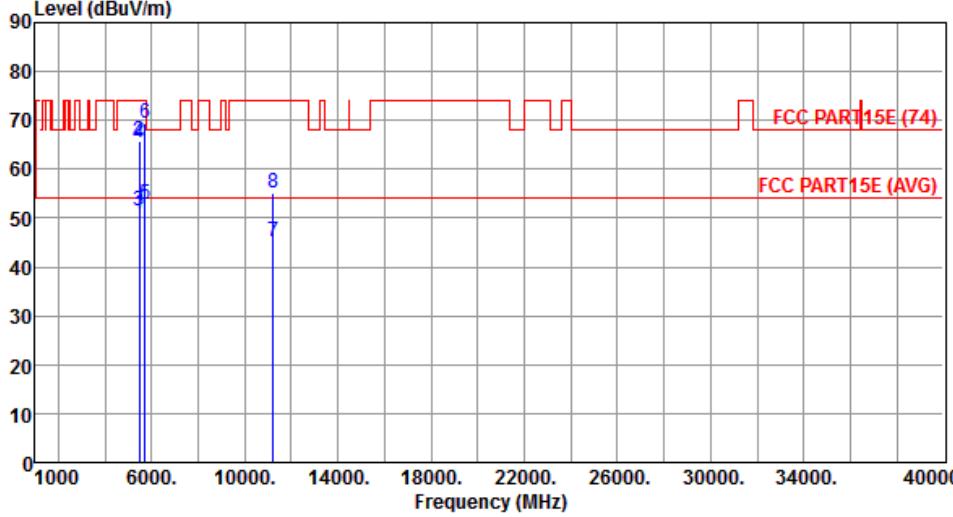


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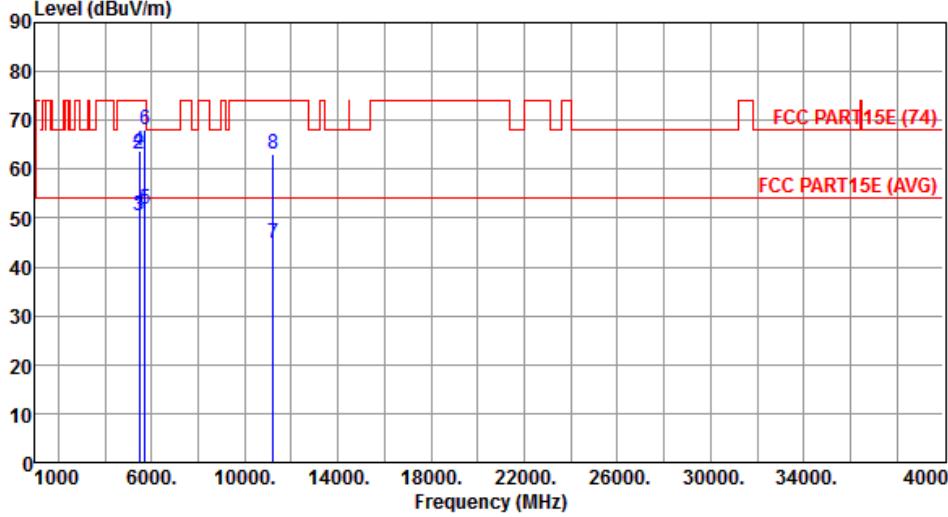
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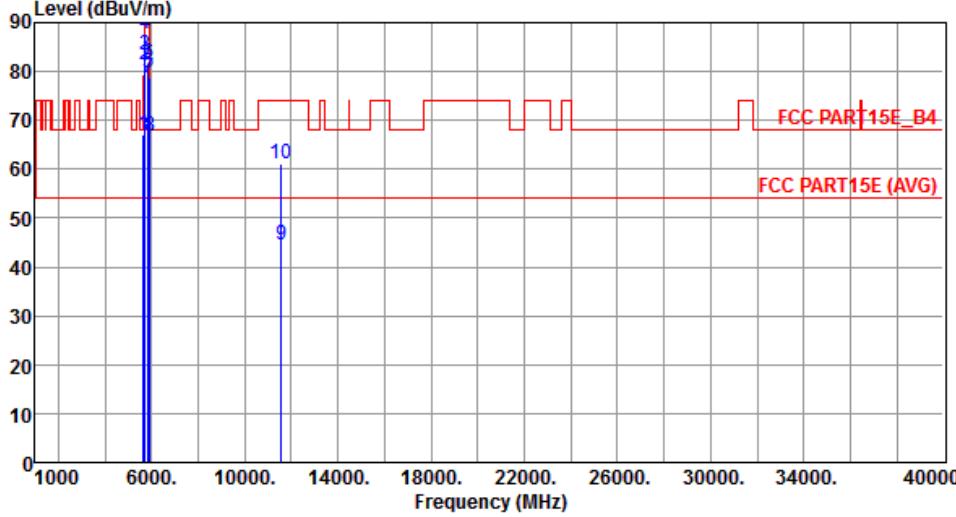
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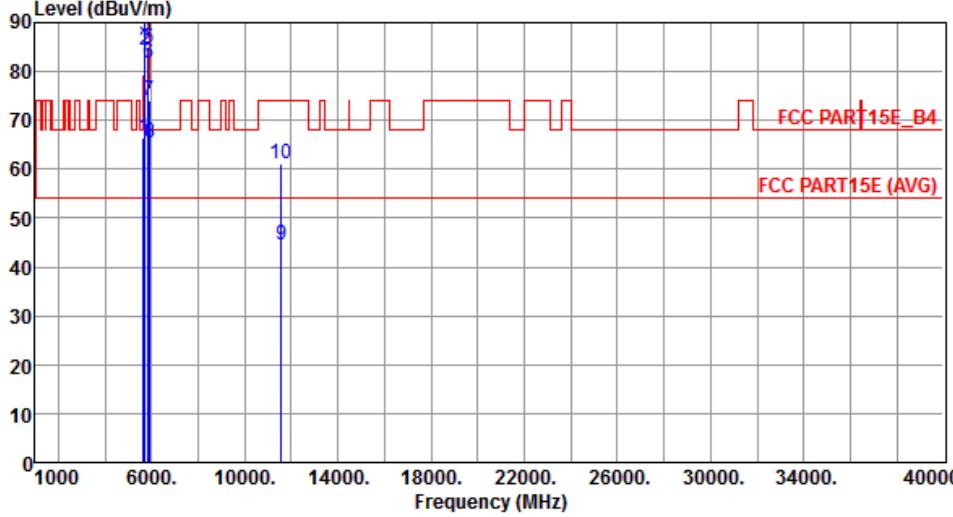
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Frequency Stability

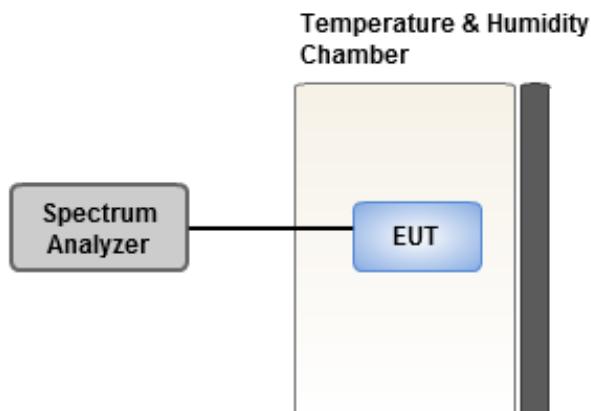
3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	12.22	12.67	12.51	11.88
T20°C Vmin	9.72	9.95	9.51	10.03
T50°C Vnom	9.48	9.61	9.86	9.01
T40°C Vnom	8.55	9.07	8.23	8.96
T30°C Vnom	9.02	9.58	9.17	9.59
T20°C Vnom	9.34	9.80	9.96	9.92
T10°C Vnom	9.60	9.46	9.84	10.04
T0°C Vnom	8.86	8.75	9.28	9.04
T-10°C Vnom	8.53	8.63	8.97	8.52
T-20°C Vnom	9.84	9.58	9.76	9.73
T-30°C Vnom	7.57	7.74	8.13	7.50
Vnom [Vac]: 120	Vmax [Vac]: 138			Vmin [Vac]: 102
Tnom [°C]: 20	Tmax [°C]: 50			Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	10.75	11.20	10.88	11.04
T20°C Vmin	8.68	8.57	8.41	9.36
T50°C Vnom	8.43	9.12	9.05	9.17
T40°C Vnom	8.08	8.44	8.34	8.14
T30°C Vnom	8.80	9.15	8.96	9.23
T20°C Vnom	8.26	8.02	8.39	8.29
T10°C Vnom	8.15	8.46	8.91	8.40
T0°C Vnom	8.55	8.69	8.65	8.64
T-10°C Vnom	7.55	7.88	7.98	7.88
T-20°C Vnom	6.08	6.68	5.77	6.28
T-30°C Vnom	5.31	5.90	5.96	5.48
Vnom [Vac]: 120	Vmax [Vac]: 138			Vmin [Vac]: 102
Tnom [°C]: 20	Tmax [°C]: 50			Tmin [°C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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