

TEST REPORT

Reference No. : WTS15S0831716E
FCC ID..... : V2V-NFT1N
Applicant..... : LigoWave LLC
Address : 138 Mountain Brook Dr Canton, GA 30115 United States
Manufacturer : The same as above
Address : The same as above
Product Name : Broadband Digital Transmission System
Model No. : NFT 1N AF, NFT 1N
Standards..... : FCC CFR47 Part 15 C Section 15.247:2014
Date of Receipt sample..... : Aug. 11, 2015
Date of Test..... : Aug. 12, 2015 ~ Oct. 08, 2015
Date of Issue : Oct. 12, 2015
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.247 15.205(a) 15.209(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name:	Broadband Digital Transmission System
Model No.:	NFT 1N, NFT 1N AF
Model Description:	Only the Power management circuits and the power supply voltage are different.
Operation Frequency:	IEEE 802.11b/g/n(HT20):2412MHz ~ 2462MHz IEEE 802.11n(HT40):2422MHz~2452MHz
Antenna Gain:	3dBi
Type of modulation:	IEEE 802.11b DSSS(CCK/QPSK/BPSK) IEEE 802.11g OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n OFDM(BPSK/QPSK/16QAM/64QAM) IEEE for 802.11n : OFDM(BPSK/QPSK/16QAM/64QAM)
Number of transmitter chains:	WIFI:2*2 (MIMO), uncorrelated.

4.2 Details of E.U.T.

Technical Data:

Adapter 1:	Manufacturer: AOYUAN Model No.: AY012E-ZF243 Output: DC 24V 0.5A Input: 100-240V, 50/60Hz, 0.5A
Adapter 2:	Manufacturer: Great Model No.: GRT-240050 Output: DC 24V 0.5A Input: 100-240V, 50/60Hz, 0.5A
Two adapter for NFN 1N The NFT 1N AF Sale without adapter	
Secondary Adapter:	Manufacturer: LEOLINK Model No.: LEF1015 Output: DC 48V 0.5A Input: 100-240V, 50/60Hz, 0.5A

4.3 'Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Frequency Range	802.11b	11 Mbps	1/11	TX
	802.11g	54 Mbps	1/11	TX
	802.11n HT20	108 Mbps	1/11	TX
	802.11n HT40	150 Mbps	3/9	TX
Transmitter Spurious Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Table 2 Tests Carried Out Under FCC part 15.207 & FCC part 15.209

Test Item	Test Mode
Conduction Emission, 0.15MHz to 30MHz	Communication

4.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A-1, July 12, 2012.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.14,2015	Sep.13,2016
2.	LISN	R&S	ENV216	101215	Sep.14,2015	Sep.13,2016
3.	Cable	Top	TYPE16(3.5M)	-	Sep.14,2015	Sep.13,2016
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.14,2015	Sep.13,2016
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.14,2015	Sep.13,2016
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.14,2015	Sep.13,2016
4.	Cable	LARGE	RF300	-	Sep.14,2015	Sep.13,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.14,2015	Sep.13,2016
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.14,2015	Sep.13,2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.18,2015	Apr.17,2016
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.14,2015	Sep.13,2016
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2015	Apr.09,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.14,2015	Sep.13,2016
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.14,2015	Sep.13,2016
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.14,2015	Sep.13,2016
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.14,2015	Sep.13,2016
RF Conducted Testing						

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.14,2015	Sep.13,2016
2.	Spectrum Analyzer (9k~6GHz)	R&S	FSL6	100959	Sep.14,2015	Sep.13,2016
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.14,2015	Sep.13,2016

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2009
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

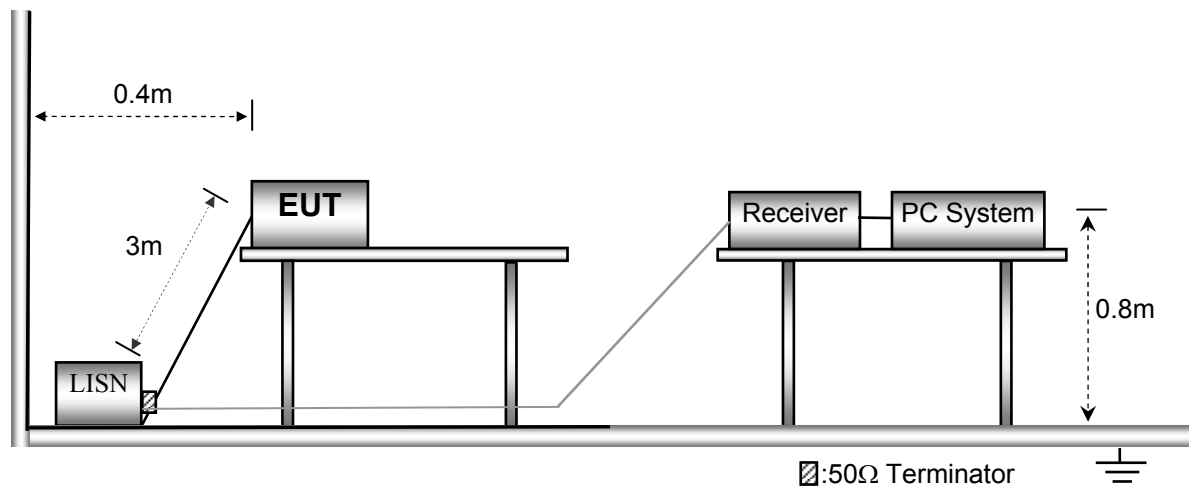
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4.



6.3 Measurement Description

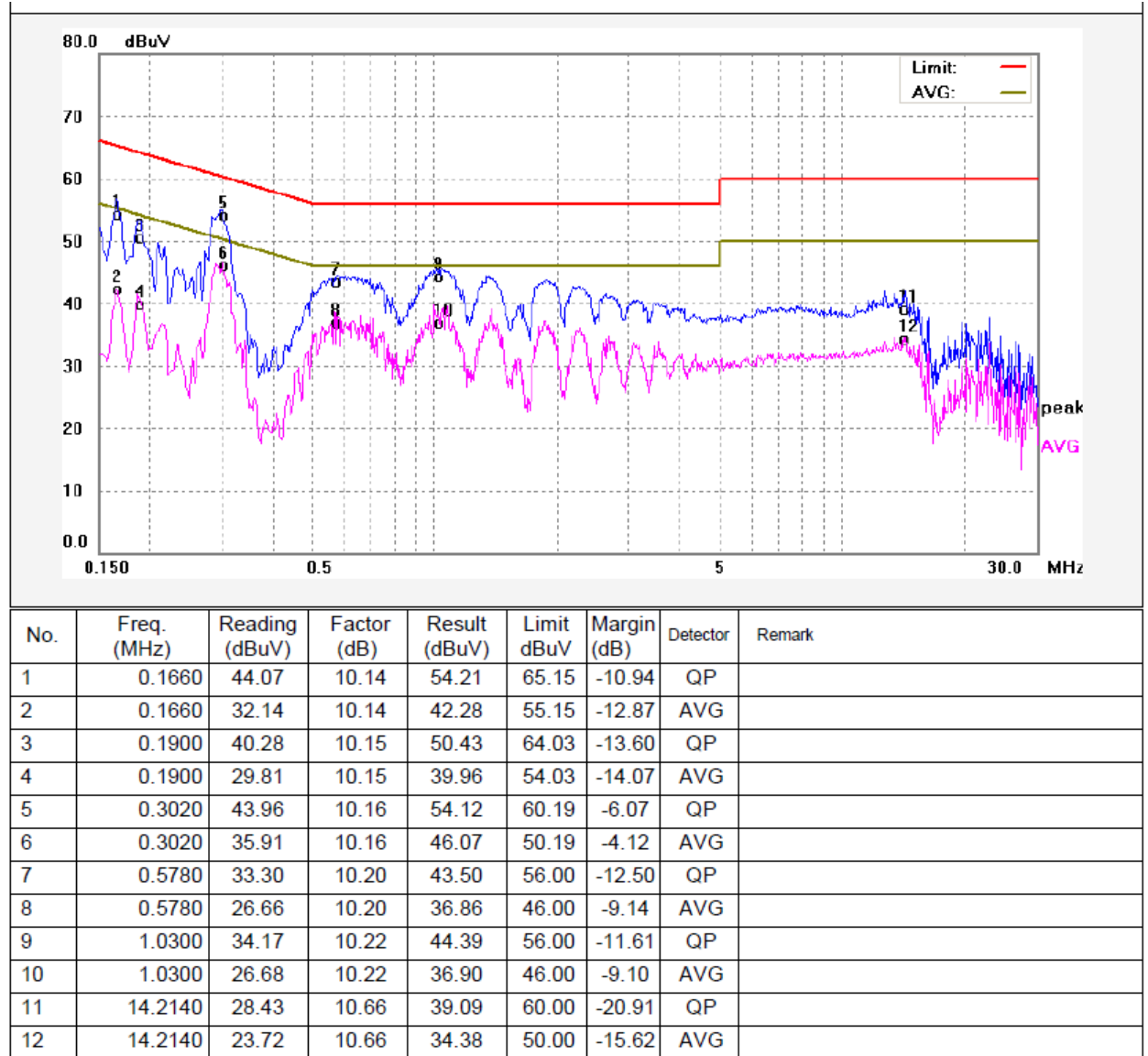
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Conducted Emission Test Result

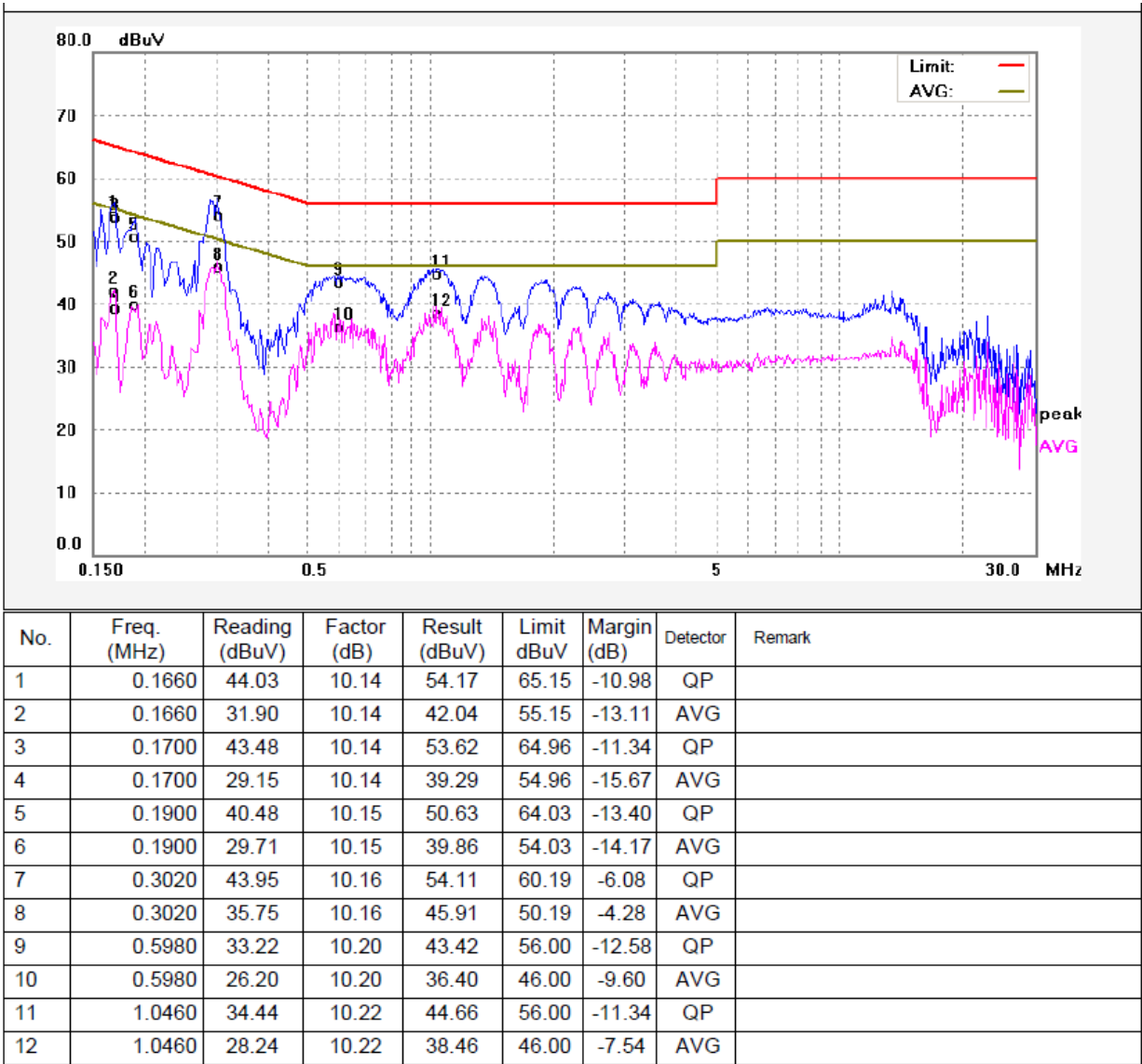
An initial pre-scan was performed on the live and neutral lines.

Model: NFT 1N (AY012E-ZF243)

Live line:

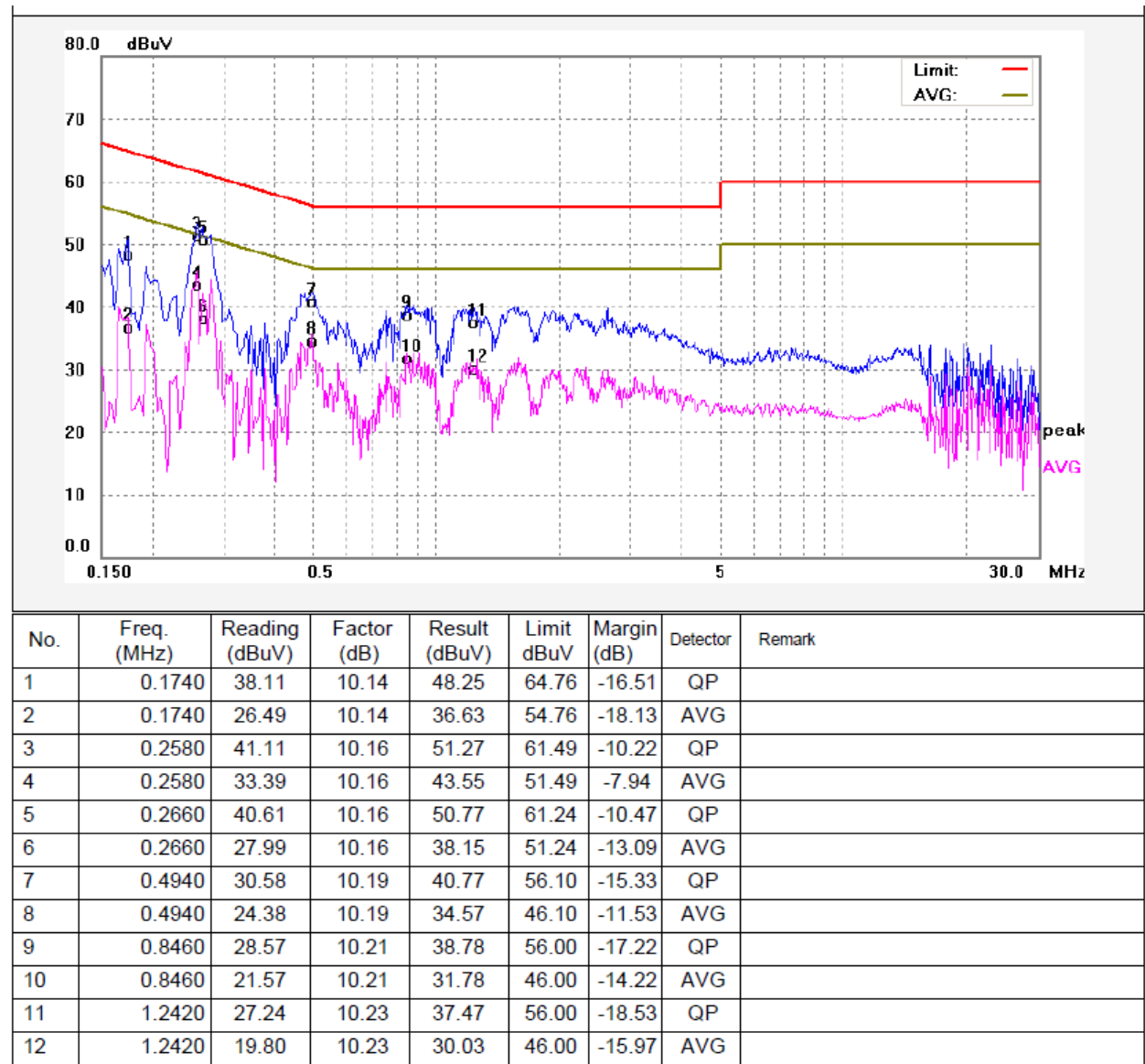


Neutral line:

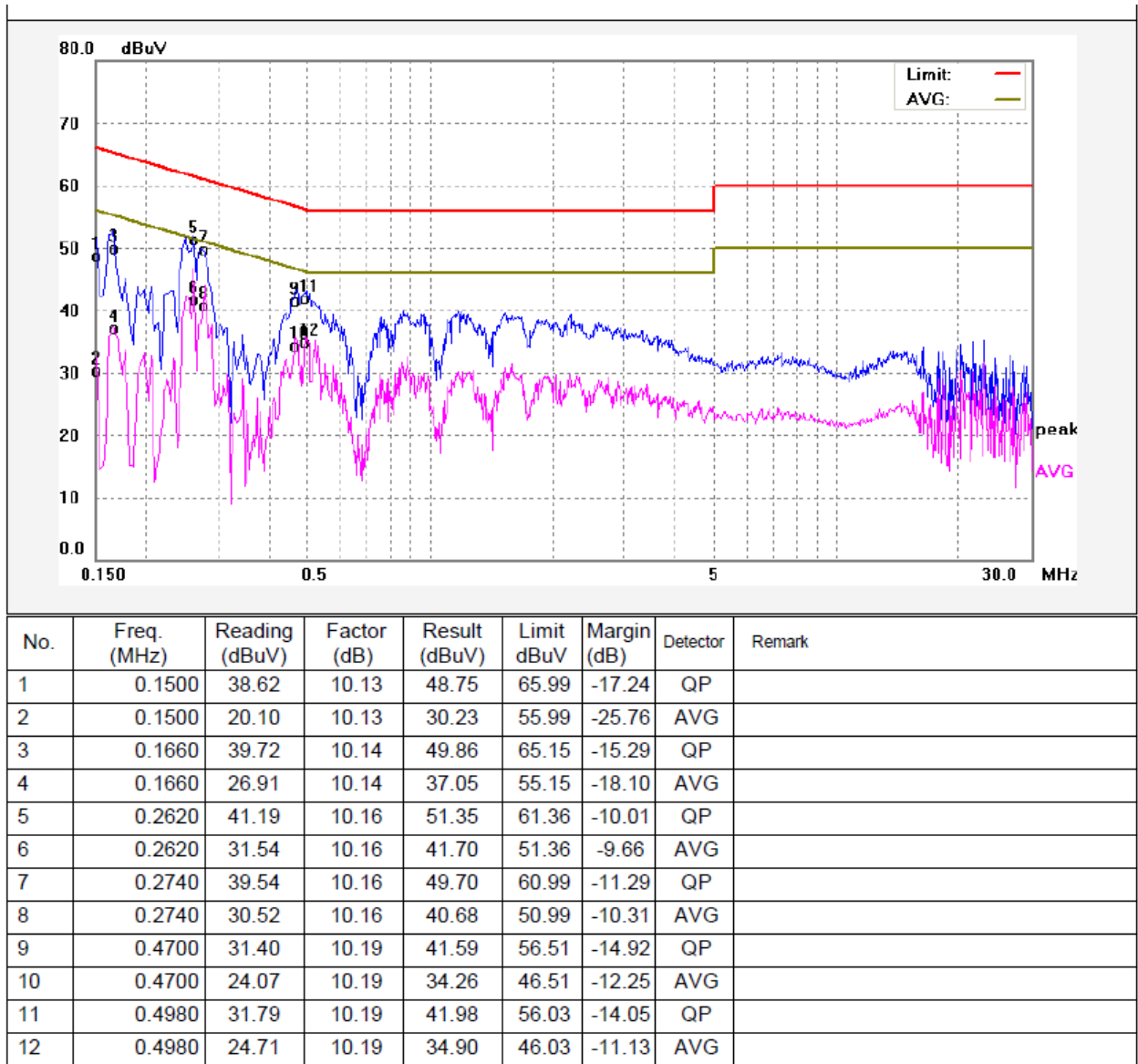


NFT 1N (GRT-240050)

Live line:

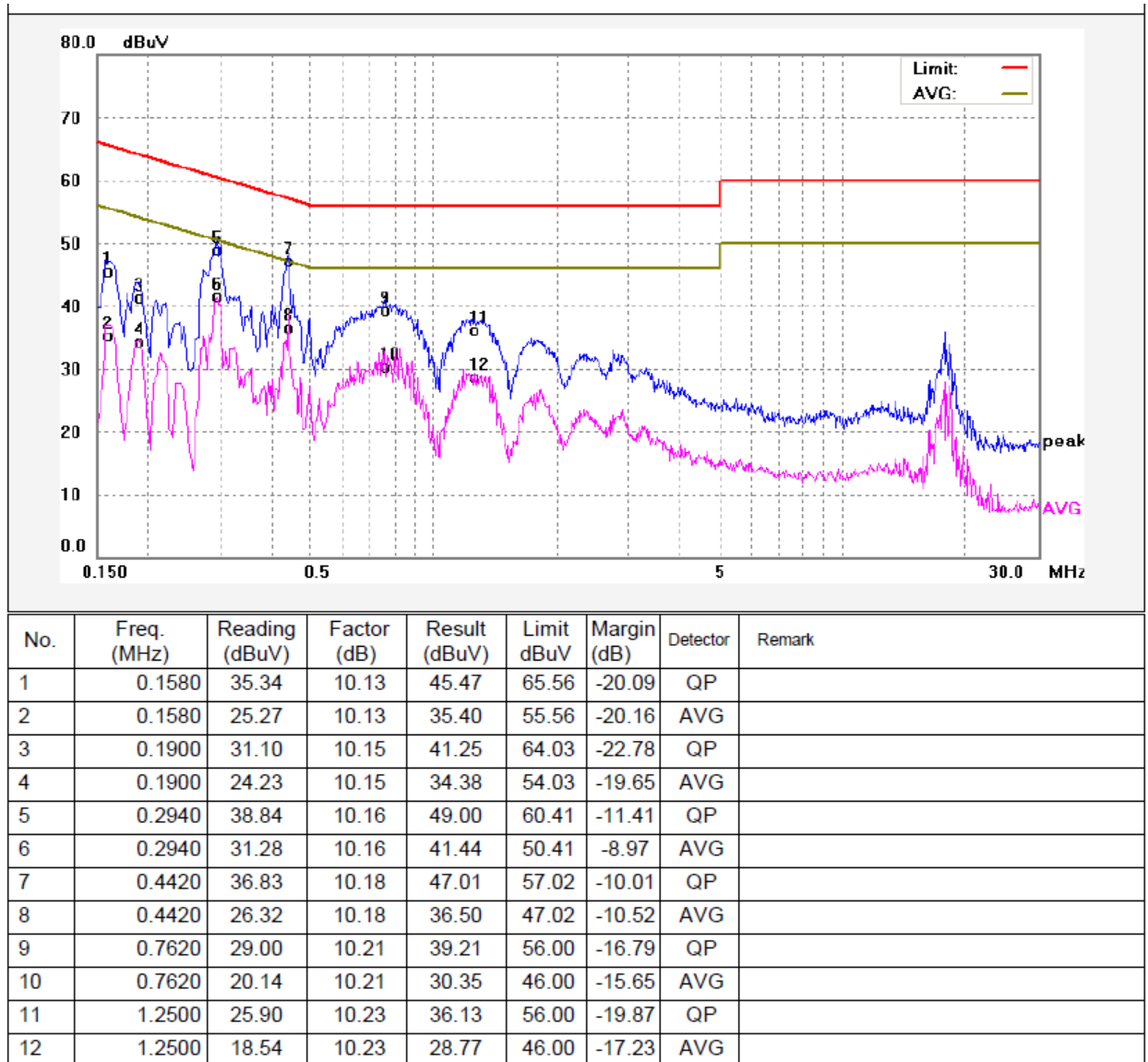


Neutral line:

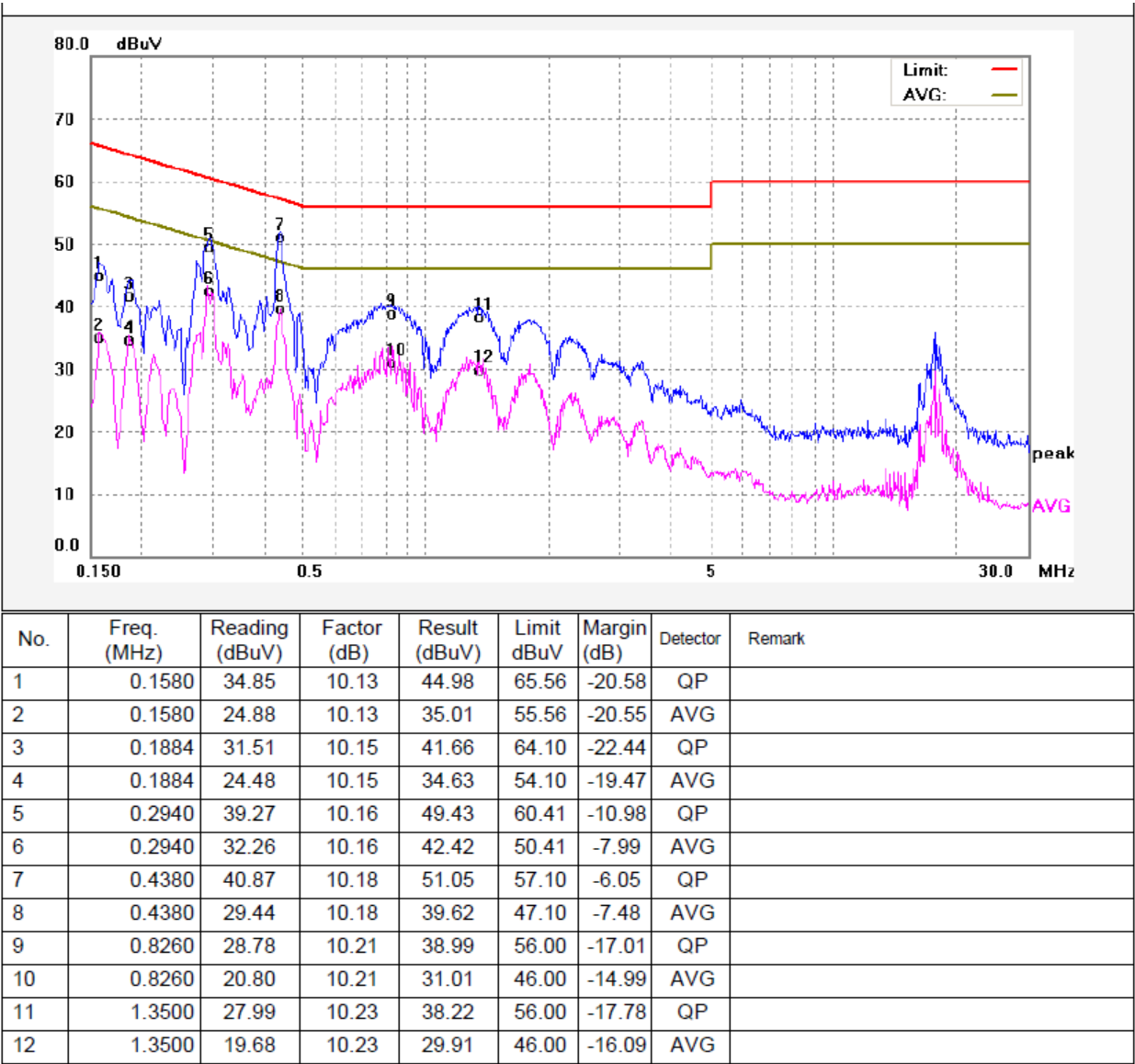


Model: NFT 1N AF

Live line:



Neutral line:



7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

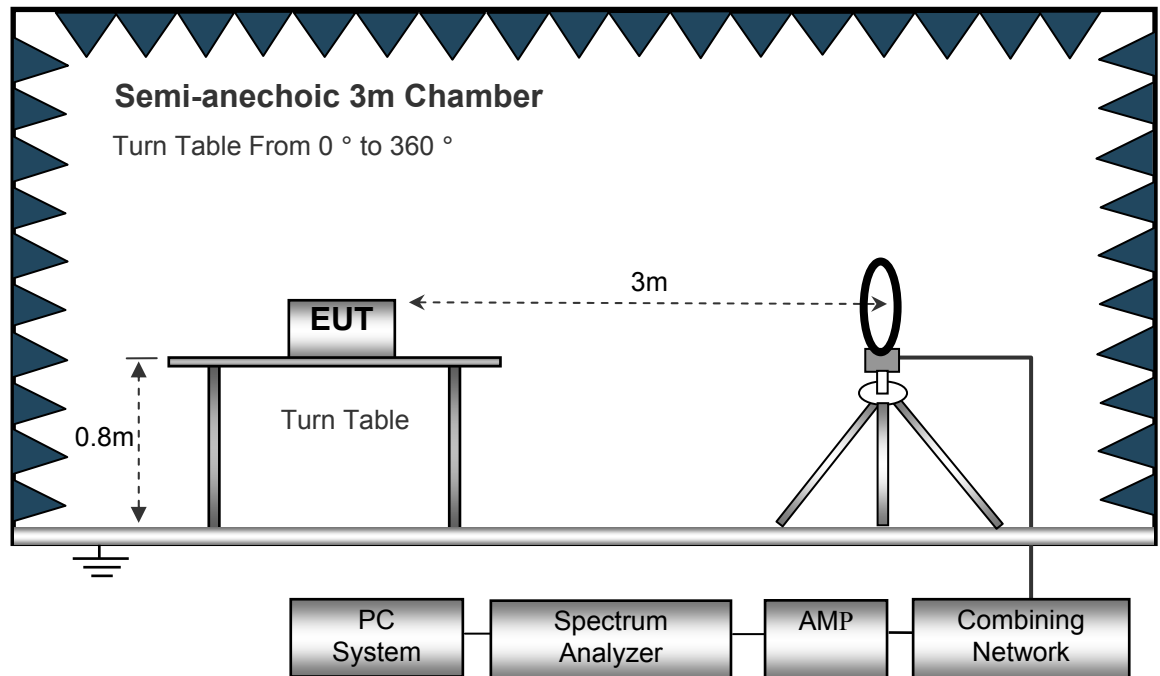
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

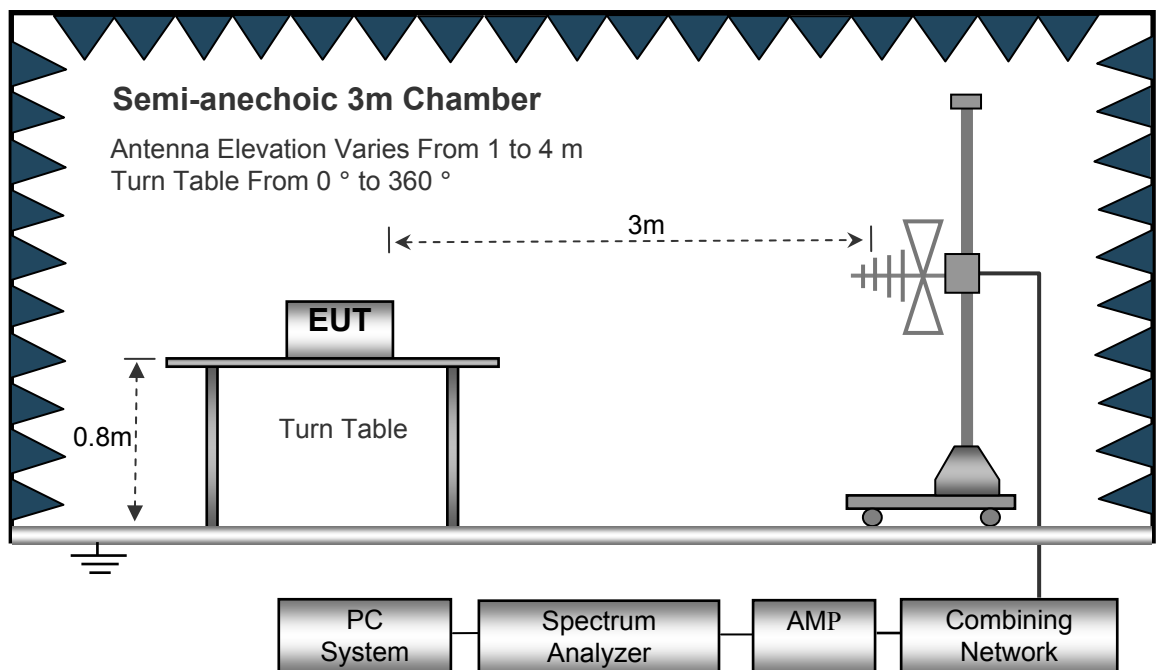
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

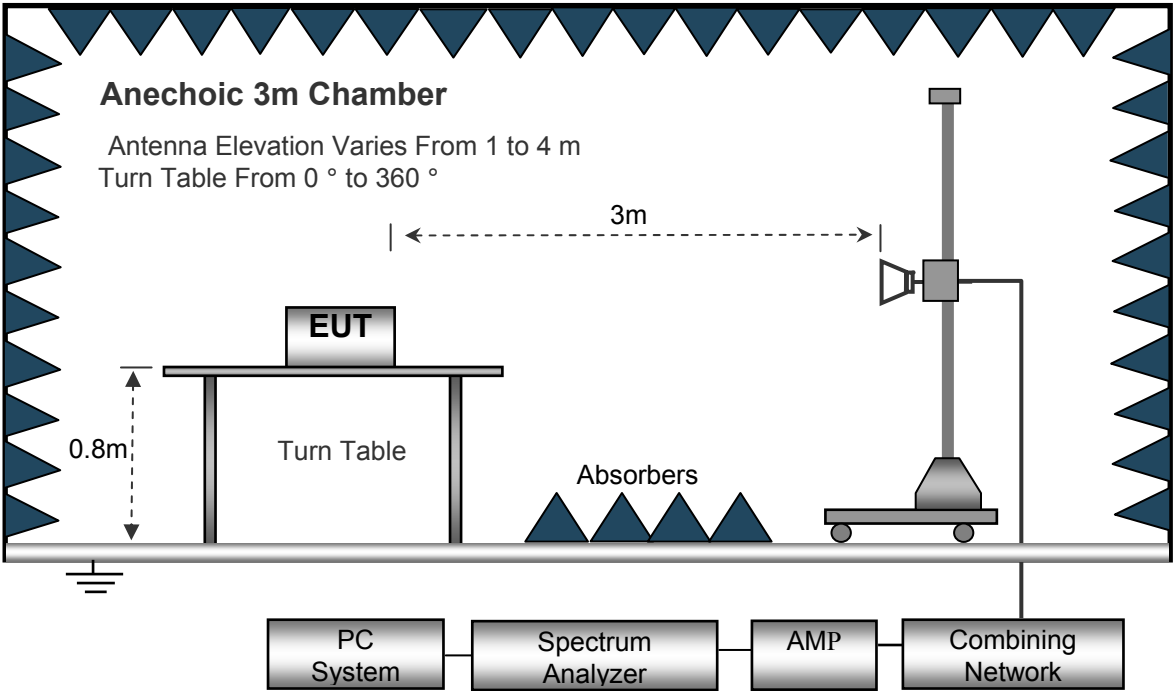
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

- Sweep Speed Auto
- IF Bandwidth.....10kHz
- Video Bandwidth.....10kHz
- Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

- Sweep Speed Auto
- DetectorPK
- Resolution Bandwidth.....100kHz
- Video Bandwidth.....300kHz

Above 1GHz

- Sweep Speed Auto
- DetectorPK
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....3MHz
- DetectorAve.
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.6 Summary of Test Results

Model: NFT 1N (AY012E-ZF243)

Test Frequency: Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Low Channel 2412MHz									
223.46	41.05	QP	357	1.7	H	-11.62	29.43	46.00	-16.57
223.46	36.26	QP	277	1.1	V	-11.62	24.64	46.00	-21.36
4824.00	50.44	PK	28	1.6	V	-1.06	49.38	74.00	-24.62
4824.00	46.32	Ave	28	1.6	V	-1.06	45.26	54.00	-8.74
7236.00	41.08	PK	292	2.0	H	1.33	42.41	74.00	-31.59
7236.00	41.96	Ave	292	2.0	H	1.33	43.29	54.00	-10.71
2343.41	45.99	PK	24	1.5	V	-13.19	32.80	74.00	-41.20
2343.41	38.96	Ave	24	1.5	V	-13.19	25.77	54.00	-28.23
2375.33	42.13	PK	167	1.0	H	-13.14	28.99	74.00	-45.01
2375.33	37.97	Ave	167	1.0	H	-13.14	24.83	54.00	-29.17
2484.90	43.73	PK	310	1.1	V	-13.08	30.65	74.00	-43.35
2484.90	37.43	Ave	310	1.1	V	-13.08	24.35	54.00	-29.65

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Middle Channel 2437MHz									
223.46	39.83	QP	5	2.0	H	-11.62	28.21	46.00	-17.79
223.46	37.40	QP	189	1.2	V	-11.62	25.78	46.00	-20.22
4874.00	50.35	PK	236	1.7	V	-0.62	49.73	74.00	-24.27
4874.00	47.07	Ave	236	1.7	V	-0.62	46.45	54.00	-7.55
7311.00	41.75	PK	276	1.3	H	2.21	43.96	74.00	-30.04
7311.00	41.98	Ave	276	1.3	H	2.21	44.19	54.00	-9.81
2320.06	45.31	PK	233	1.3	V	-13.19	32.12	74.00	-41.88
2320.06	38.70	Ave	233	1.3	V	-13.19	25.51	54.00	-28.49
2355.87	42.15	PK	303	1.8	H	-13.14	29.01	74.00	-44.99
2355.87	36.00	Ave	303	1.8	H	-13.14	22.86	54.00	-31.14
2490.84	42.21	PK	11	1.1	V	-13.08	29.13	74.00	-44.87
2490.84	37.03	Ave	11	1.1	V	-13.08	23.95	54.00	-30.05

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: High Channel 2462MHz									
223.46	39.37	QP	201	1.9	H	-11.62	27.75	46.00	-18.25
223.46	38.07	QP	211	1.4	V	-11.62	26.45	46.00	-19.55
4924.00	48.97	PK	111	1.6	V	-0.24	48.73	74.00	-25.27
4924.00	46.30	Ave	111	1.6	V	-0.24	46.06	54.00	-7.94
7386.00	41.29	PK	91	1.1	H	2.84	44.13	74.00	-29.87
7386.00	40.83	Ave	91	1.1	H	2.84	43.67	54.00	-10.33
2347.62	46.92	PK	57	1.3	V	-13.19	33.73	74.00	-40.27
2347.62	39.71	Ave	57	1.3	V	-13.19	26.52	54.00	-27.48
2356.78	44.04	PK	160	1.8	H	-13.14	30.90	74.00	-43.10
2356.78	37.11	Ave	160	1.8	H	-13.14	23.97	54.00	-30.03
2490.09	42.47	PK	188	1.8	V	-13.08	29.39	74.00	-44.61
2490.09	36.10	Ave	188	1.8	V	-13.08	23.02	54.00	-30.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Low Channel 2412MHz									
223.52	41.06	QP	194	1.6	H	-11.62	29.44	46.00	-16.56
223.52	36.23	QP	250	1.1	V	-11.62	24.61	46.00	-21.39
4824.00	50.47	PK	26	1.6	V	-1.06	49.41	74.00	-24.59
4824.00	46.35	Ave	26	1.6	V	-1.06	45.29	54.00	-8.71
7236.00	41.09	PK	111	1.9	H	1.33	42.42	74.00	-31.58
7236.00	41.92	Ave	111	1.9	H	1.33	43.25	54.00	-10.75
2346.97	45.07	PK	245	1.7	V	-13.19	31.88	74.00	-42.12
2346.97	39.75	Ave	245	1.7	V	-13.19	26.56	54.00	-27.44
2371.94	43.67	PK	310	1.0	H	-13.14	30.53	74.00	-43.47
2371.94	36.43	Ave	310	1.0	H	-13.14	23.29	54.00	-30.71
2485.21	44.09	PK	337	1.6	V	-13.08	31.01	74.00	-42.99
2485.21	36.25	Ave	337	1.6	V	-13.08	23.17	54.00	-30.83

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Middle Channel 2437MHz									
223.52	41.61	QP	271	1.9	H	-11.62	29.99	46.00	-16.01
223.52	35.49	QP	270	1.5	V	-11.62	23.87	46.00	-22.13
4874.00	51.18	PK	31	1.5	V	-0.62	50.56	74.00	-23.44
4874.00	45.59	Ave	31	1.5	V	-0.62	44.97	54.00	-9.03
7311.00	39.89	PK	198	1.4	H	2.21	42.10	74.00	-31.90
7311.00	41.02	Ave	198	1.4	H	2.21	43.23	54.00	-10.77
2330.77	45.18	PK	113	1.8	V	-13.19	31.99	74.00	-42.01
2330.77	38.60	Ave	113	1.8	V	-13.19	25.41	54.00	-28.59
2370.46	43.24	PK	127	1.7	H	-13.14	30.10	74.00	-43.90
2370.46	37.40	Ave	127	1.7	H	-13.14	24.26	54.00	-29.74
2494.24	43.60	PK	257	1.3	V	-13.08	30.52	74.00	-43.48
2494.24	37.10	Ave	257	1.3	V	-13.08	24.02	54.00	-29.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: High Channel 2462MHz									
223.52	41.19	QP	196	2.0	H	-11.62	29.57	46.00	-16.43
223.52	34.37	QP	335	1.6	V	-11.62	22.75	46.00	-23.25
4924.00	49.88	PK	301	1.1	V	-0.24	49.64	74.00	-24.36
4924.00	45.43	Ave	301	1.1	V	-0.24	45.19	54.00	-8.81
7386.00	41.23	PK	226	1.1	H	2.84	44.07	74.00	-29.93
7386.00	41.26	Ave	226	1.1	H	2.84	44.10	54.00	-9.90
2335.28	46.72	PK	90	2.0	V	-13.19	33.53	74.00	-40.47
2335.28	38.65	Ave	90	2.0	V	-13.19	25.46	54.00	-28.54
2371.04	44.54	PK	238	1.1	H	-13.14	31.40	74.00	-42.60
2371.04	37.64	Ave	238	1.1	H	-13.14	24.50	54.00	-29.50
2483.96	44.80	PK	164	1.5	V	-13.08	31.72	74.00	-42.28
2483.96	36.94	Ave	164	1.5	V	-13.08	23.86	54.00	-30.14

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Low Channel 2412MHz									
223.46	40.46	QP	170	1.4	H	-11.62	28.84	46.00	-17.16
223.46	38.44	QP	265	1.7	V	-11.62	26.82	46.00	-19.18
4824.00	50.26	PK	217	1.3	V	-1.06	49.20	74.00	-24.80
4824.00	46.79	Ave	217	1.3	V	-1.06	45.73	54.00	-8.27
7236.00	40.67	PK	54	1.1	H	1.33	42.00	74.00	-32.00
7236.00	41.07	Ave	54	1.1	H	1.33	42.40	54.00	-11.60
2334.32	46.33	PK	169	1.7	V	-13.19	33.14	74.00	-40.86
2334.32	38.89	Ave	169	1.7	V	-13.19	25.70	54.00	-28.30
2365.91	44.13	PK	254	1.2	H	-13.14	30.99	74.00	-43.01
2365.91	38.30	Ave	254	1.2	H	-13.14	25.16	54.00	-28.84
2489.81	44.52	PK	316	1.2	V	-13.08	31.44	74.00	-42.56
2489.81	37.28	Ave	316	1.2	V	-13.08	24.20	54.00	-29.80

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Middle Channel 2437MHz									
223.46	39.82	QP	70	1.8	H	-11.62	28.20	46.00	-17.80
223.46	37.45	QP	14	1.5	V	-11.62	25.83	46.00	-20.17
4874.00	49.66	PK	142	1.6	V	-0.62	49.04	74.00	-24.96
4874.00	46.80	Ave	142	1.6	V	-0.62	46.18	54.00	-7.82
7311.00	41.28	PK	150	1.3	H	2.21	43.49	74.00	-30.51
7311.00	40.27	Ave	150	1.3	H	2.21	42.48	54.00	-11.52
2348.87	45.41	PK	254	1.3	V	-13.19	32.22	74.00	-41.78
2348.87	37.43	Ave	254	1.3	V	-13.19	24.24	54.00	-29.76
2386.85	42.55	PK	203	1.2	H	-13.14	29.41	74.00	-44.59
2386.85	37.94	Ave	203	1.2	H	-13.14	24.80	54.00	-29.20
2490.70	43.47	PK	182	1.7	V	-13.08	30.39	74.00	-43.61
2490.70	36.29	Ave	182	1.7	V	-13.08	23.21	54.00	-30.79

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: High Channel 2462MHz									
223.46	41.07	QP	359	2.0	H	-11.62	29.45	46.00	-16.55
223.46	36.51	QP	161	1.6	V	-11.62	24.89	46.00	-21.11
4924.00	51.05	PK	99	2.0	V	-0.24	50.81	74.00	-23.19
4924.00	45.99	Ave	99	2.0	V	-0.24	45.75	54.00	-8.25
7386.00	41.07	PK	317	1.6	H	2.84	43.91	74.00	-30.09
7386.00	41.27	Ave	317	1.6	H	2.84	44.11	54.00	-9.89
2312.99	45.03	PK	299	1.6	V	-13.19	31.84	74.00	-42.16
2312.99	37.12	Ave	299	1.6	V	-13.19	23.93	54.00	-30.07
2365.02	44.99	PK	34	1.6	H	-13.14	31.85	74.00	-42.15
2365.02	37.15	Ave	34	1.6	H	-13.14	24.01	54.00	-29.99
2484.04	43.79	PK	297	1.0	V	-13.08	30.71	74.00	-43.29
2484.04	37.07	Ave	297	1.0	V	-13.08	23.99	54.00	-30.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Low Channel 2412MHz									
223.52	41.39	QP	148	1.8	H	-11.62	29.77	46.00	-16.23
223.52	34.53	QP	123	1.2	V	-11.62	22.91	46.00	-23.09
4824.00	49.24	PK	189	1.6	V	-1.06	48.18	74.00	-25.82
4824.00	46.68	Ave	189	1.6	V	-1.06	45.62	54.00	-8.38
7236.00	39.84	PK	287	1.4	H	1.33	41.17	74.00	-32.83
7236.00	40.46	Ave	287	1.4	H	1.33	41.79	54.00	-12.21
2343.43	46.50	PK	223	1.4	V	-13.19	33.31	74.00	-40.69
2343.43	39.38	Ave	223	1.4	V	-13.19	26.19	54.00	-27.81
2352.77	44.35	PK	312	1.6	H	-13.14	31.21	74.00	-42.79
2352.77	37.48	Ave	312	1.6	H	-13.14	24.34	54.00	-29.66
2489.60	43.13	PK	35	1.7	V	-13.08	30.05	74.00	-43.95
2489.60	37.22	Ave	35	1.7	V	-13.08	24.14	54.00	-29.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Middle Channel 2437MHz									
223.52	40.37	QP	136	1.6	H	-11.62	28.75	46.00	-17.25
223.52	36.01	QP	189	1.7	V	-11.62	24.39	46.00	-21.61
4874.00	49.03	PK	114	1.4	V	-0.62	48.41	74.00	-25.59
4874.00	46.20	Ave	114	1.4	V	-0.62	45.58	54.00	-8.42
7311.00	38.62	PK	163	1.1	H	2.21	40.83	74.00	-33.17
7311.00	41.53	Ave	163	1.1	H	2.21	43.74	54.00	-10.26
2335.15	46.40	PK	53	1.0	V	-13.19	33.21	74.00	-40.79
2335.15	38.50	Ave	53	1.0	V	-13.19	25.31	54.00	-28.69
2355.06	44.19	PK	14	1.5	H	-13.14	31.05	74.00	-42.95
2355.06	37.49	Ave	14	1.5	H	-13.14	24.35	54.00	-29.65
2483.87	44.02	PK	238	1.9	V	-13.08	30.94	74.00	-43.06
2483.87	37.21	Ave	238	1.9	V	-13.08	24.13	54.00	-29.87

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: High Channel 2462MHz									
223.52	39.08	QP	277	1.1	H	-11.62	27.46	46.00	-18.54
223.52	35.19	QP	130	1.8	V	-11.62	23.57	46.00	-22.43
4924.00	50.23	PK	299	2.0	V	-0.24	49.99	74.00	-24.01
4924.00	46.63	Ave	299	2.0	V	-0.24	46.39	54.00	-7.61
7386.00	39.07	PK	159	1.5	H	2.84	41.91	74.00	-32.09
7386.00	41.86	Ave	159	1.5	H	2.84	44.70	54.00	-9.30
2340.01	46.96	PK	303	1.4	V	-13.19	33.77	74.00	-40.23
2340.01	38.64	Ave	303	1.4	V	-13.19	25.45	54.00	-28.55
2353.64	44.06	PK	189	1.4	H	-13.14	30.92	74.00	-43.08
2353.64	36.99	Ave	189	1.4	H	-13.14	23.85	54.00	-30.15
2495.75	44.65	PK	273	1.8	V	-13.08	31.57	74.00	-42.43
2495.75	36.17	Ave	273	1.8	V	-13.08	23.09	54.00	-30.91

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Low Channel 2412MHz									
223.59	41.30	QP	159	1.8	H	-11.62	29.68	46.00	-16.32
223.59	37.81	QP	116	1.3	V	-11.62	26.19	46.00	-19.81
4824.00	53.01	PK	11	1.6	V	-1.06	51.95	74.00	-22.05
4824.00	46.53	Ave	11	1.6	V	-1.06	45.47	54.00	-8.53
7236.00	38.65	PK	304	1.0	H	1.33	39.98	74.00	-34.02
7236.00	44.11	Ave	304	1.0	H	1.33	45.44	54.00	-8.56
2338.14	45.98	PK	148	1.8	V	-13.19	32.79	74.00	-41.21
2338.14	37.71	Ave	148	1.8	V	-13.19	24.52	54.00	-29.48
2380.15	44.66	PK	233	1.2	H	-13.14	31.52	74.00	-42.48
2380.15	36.73	Ave	233	1.2	H	-13.14	23.59	54.00	-30.41
2491.97	43.29	PK	138	2.0	V	-13.08	30.21	74.00	-43.79
2491.97	38.44	Ave	138	2.0	V	-13.08	25.36	54.00	-28.64

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Middle Channel 2437MHz									
223.59	42.71	QP	210	1.9	H	-11.62	31.09	46.00	-14.91
223.59	39.09	QP	296	1.2	V	-11.62	27.47	46.00	-18.53
4874.00	51.52	PK	272	1.6	V	-0.62	50.90	74.00	-23.10
4874.00	45.75	Ave	272	1.6	V	-0.62	45.13	54.00	-8.87
7311.00	39.09	PK	239	1.1	H	2.21	41.30	74.00	-32.70
7311.00	42.62	Ave	239	1.1	H	2.21	44.83	54.00	-9.17
2330.13	46.36	PK	118	1.3	V	-13.19	33.17	74.00	-40.83
2330.13	37.74	Ave	118	1.3	V	-13.19	24.55	54.00	-29.45
2370.54	44.14	PK	160	1.3	H	-13.14	31.00	74.00	-43.00
2370.54	36.47	Ave	160	1.3	H	-13.14	23.33	54.00	-30.67
2498.81	43.12	PK	290	1.3	V	-13.08	30.04	74.00	-43.96
2498.81	36.97	Ave	290	1.3	V	-13.08	23.89	54.00	-30.11

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: High Channel 2462MHz									
223.59	44.06	QP	331	1.2	H	-11.62	32.44	46.00	-13.56
223.59	40.18	QP	115	1.0	V	-11.62	28.56	46.00	-17.44
4924.00	50.70	PK	287	1.6	V	-0.24	50.46	74.00	-23.54
4924.00	45.59	Ave	287	1.6	V	-0.24	45.35	54.00	-8.65
7386.00	39.68	PK	177	2.0	H	2.84	42.52	74.00	-31.48
7386.00	42.60	Ave	177	2.0	H	2.84	45.44	54.00	-8.56
2331.02	46.65	PK	2	1.9	V	-13.19	33.46	74.00	-40.54
2331.02	39.76	Ave	2	1.9	V	-13.19	26.57	54.00	-27.43
2383.81	43.62	PK	141	1.3	H	-13.14	30.48	74.00	-43.52
2383.81	37.42	Ave	141	1.3	H	-13.14	24.28	54.00	-29.72
2493.22	43.35	PK	109	1.7	V	-13.08	30.27	74.00	-43.73
2493.22	36.90	Ave	109	1.7	V	-13.08	23.82	54.00	-30.18

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Low Channel 2422MHz									
223.59	45.46	QP	263	2.0	H	-11.62	33.84	46.00	-12.16
223.59	39.73	QP	38	1.2	V	-11.62	28.11	46.00	-17.89
4844.00	47.76	PK	277	1.2	V	-1.06	46.70	74.00	-27.30
4844.00	42.61	Ave	277	1.2	V	-1.06	41.55	54.00	-12.45
7266.00	38.15	PK	223	1.7	H	1.33	39.48	74.00	-34.52
7266.00	40.31	Ave	223	1.7	H	1.33	41.64	54.00	-12.36
2349.91	46.87	PK	144	1.3	V	-13.19	33.68	74.00	-40.32
2349.91	37.14	Ave	144	1.3	V	-13.19	23.95	54.00	-30.05
2377.63	44.08	PK	138	1.1	H	-13.14	30.94	74.00	-43.06
2377.63	38.09	Ave	138	1.1	H	-13.14	24.95	54.00	-29.05
2484.92	44.86	PK	2	1.1	V	-13.08	31.78	74.00	-42.22
2484.92	37.40	Ave	2	1.1	V	-13.08	24.32	54.00	-29.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Middle Channel 2437MHz									
223.59	45.03	QP	170	1.3	H	-11.62	33.41	46.00	-12.59
223.59	38.83	QP	336	1.1	V	-11.62	27.21	46.00	-18.79
4874.00	47.76	PK	167	1.2	V	-0.62	47.14	74.00	-26.86
4874.00	42.27	Ave	167	1.2	V	-0.62	41.65	54.00	-12.35
7311.00	38.97	PK	239	1.3	H	2.21	41.18	74.00	-32.82
7311.00	39.71	Ave	239	1.3	H	2.21	41.92	54.00	-12.08
2336.81	45.99	PK	300	1.9	V	-13.19	32.80	74.00	-41.20
2336.81	38.76	Ave	300	1.9	V	-13.19	25.57	54.00	-28.43
2377.72	43.52	PK	171	1.0	H	-13.14	30.38	74.00	-43.62
2377.72	37.46	Ave	171	1.0	H	-13.14	24.32	54.00	-29.68
2497.50	44.19	PK	107	1.3	V	-13.08	31.11	74.00	-42.89
2497.50	36.41	Ave	107	1.3	V	-13.08	23.33	54.00	-30.67

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: High Channel 2452MHz									
223.59	44.11	QP	294	1.3	H	-11.62	32.49	46.00	-13.51
223.59	39.46	QP	169	1.7	V	-11.62	27.84	46.00	-18.16
4904.00	48.76	PK	229	1.3	V	-0.24	48.52	74.00	-25.48
4904.00	43.16	Ave	229	1.3	V	-0.24	42.92	54.00	-11.08
7356.00	39.85	PK	129	1.1	H	2.84	42.69	74.00	-31.31
7356.00	39.79	Ave	129	1.1	H	2.84	42.63	54.00	-11.37
2344.41	46.56	PK	88	1.3	V	-13.19	33.37	74.00	-40.63
2344.41	38.71	Ave	88	1.3	V	-13.19	25.52	54.00	-28.48
2388.69	44.14	PK	8	1.2	H	-13.14	31.00	74.00	-43.00
2388.69	37.81	Ave	8	1.2	H	-13.14	24.67	54.00	-29.33
2495.34	44.73	PK	20	1.5	V	-13.08	31.65	74.00	-42.35
2495.34	36.12	Ave	20	1.5	V	-13.08	23.04	54.00	-30.96

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

NFT 1N (GRT-240050)

Test Frequency: Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Low Channel 2412MHz									
223.45	41.38	QP	132	1.4	H	-11.62	29.76	46.00	-16.24
223.45	35.28	QP	229	1.2	V	-11.62	23.66	46.00	-22.34
4824.00	50.98	PK	162	1.6	V	-1.06	49.92	74.00	-24.08
4824.00	46.35	Ave	162	1.6	V	-1.06	45.29	54.00	-8.71
7236.00	41.51	PK	177	1.3	H	1.33	42.84	74.00	-31.16
7236.00	41.67	Ave	177	1.3	H	1.33	43.00	54.00	-11.00
2331.69	46.41	PK	49	1.4	V	-13.19	33.22	74.00	-40.78
2331.69	37.15	Ave	49	1.4	V	-13.19	23.96	54.00	-30.04
2356.45	44.69	PK	71	1.6	H	-13.14	31.55	74.00	-42.45
2356.45	37.20	Ave	71	1.6	H	-13.14	24.06	54.00	-29.94
2495.46	42.92	PK	155	1.2	V	-13.08	29.84	74.00	-44.16
2495.46	36.08	Ave	155	1.2	V	-13.08	23.00	54.00	-31.00

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Middle Channel 2437MHz									
223.45	41.69	QP	118	1.7	H	-11.62	30.07	46.00	-15.93
223.45	36.62	QP	106	1.9	V	-11.62	25.00	46.00	-21.00
4874.00	50.94	PK	108	1.9	V	-0.62	50.32	74.00	-23.68
4874.00	47.80	Ave	108	1.9	V	-0.62	47.18	54.00	-6.82
7311.00	42.31	PK	72	1.8	H	2.21	44.52	74.00	-29.48
7311.00	41.97	Ave	72	1.8	H	2.21	44.18	54.00	-9.82
2314.84	46.66	PK	20	1.4	V	-13.19	33.47	74.00	-40.53
2314.84	37.06	Ave	20	1.4	V	-13.19	23.87	54.00	-30.13
2370.52	44.59	PK	256	1.9	H	-13.14	31.45	74.00	-42.55
2370.52	37.66	Ave	256	1.9	H	-13.14	24.52	54.00	-29.48
2485.91	42.36	PK	209	1.2	V	-13.08	29.28	74.00	-44.72
2485.91	38.03	Ave	209	1.2	V	-13.08	24.95	54.00	-29.05

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: High Channel 2462MHz									
223.45	42.54	QP	21	1.6	H	-11.62	30.92	46.00	-15.08
223.45	37.72	QP	40	1.3	V	-11.62	26.10	46.00	-19.90
4924.00	52.29	PK	7	1.8	V	-0.24	52.05	74.00	-21.95
4924.00	46.60	Ave	7	1.8	V	-0.24	46.36	54.00	-7.64
7386.00	41.04	PK	354	1.3	H	2.84	43.88	74.00	-30.12
7386.00	41.64	Ave	354	1.3	H	2.84	44.48	54.00	-9.52
2312.00	45.93	PK	190	1.1	V	-13.19	32.74	74.00	-41.26
2312.00	37.47	Ave	190	1.1	V	-13.19	24.28	54.00	-29.72
2352.56	42.10	PK	267	1.8	H	-13.14	28.96	74.00	-45.04
2352.56	37.60	Ave	267	1.8	H	-13.14	24.46	54.00	-29.54
2498.19	43.51	PK	290	1.0	V	-13.08	30.43	74.00	-43.57
2498.19	38.76	Ave	290	1.0	V	-13.08	25.68	54.00	-28.32

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Low Channel 2412MHz									
223.45	40.36	QP	137	1.8	H	-11.62	28.74	46.00	-17.26
223.45	35.67	QP	123	1.2	V	-11.62	24.05	46.00	-21.95
4824.00	49.87	PK	81	2.0	V	-1.06	48.81	74.00	-25.19
4824.00	44.35	Ave	81	2.0	V	-1.06	43.29	54.00	-10.71
7236.00	41.34	PK	299	1.3	H	1.33	42.67	74.00	-31.33
7236.00	40.67	Ave	299	1.3	H	1.33	42.00	54.00	-12.00
2331.78	46.89	PK	353	1.4	V	-13.19	33.70	74.00	-40.30
2331.78	37.56	Ave	353	1.4	V	-13.19	24.37	54.00	-29.63
2374.04	44.12	PK	28	1.2	H	-13.14	30.98	74.00	-43.02
2374.04	38.95	Ave	28	1.2	H	-13.14	25.81	54.00	-28.19
2488.87	44.28	PK	295	1.0	V	-13.08	31.20	74.00	-42.80
2488.87	37.72	Ave	295	1.0	V	-13.08	24.64	54.00	-29.36

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Middle Channel 2437MHz									
223.45	41.65	QP	130	1.7	H	-11.62	30.03	46.00	-15.97
223.45	34.73	QP	87	1.5	V	-11.62	23.11	46.00	-22.89
4874.00	51.36	PK	77	1.5	V	-0.62	50.74	74.00	-23.26
4874.00	45.55	Ave	77	1.5	V	-0.62	44.93	54.00	-9.07
7311.00	41.59	PK	139	1.5	H	2.21	43.80	74.00	-30.20
7311.00	40.69	Ave	139	1.5	H	2.21	42.90	54.00	-11.10
2339.17	45.14	PK	267	1.3	V	-13.19	31.95	74.00	-42.05
2339.17	38.34	Ave	267	1.3	V	-13.19	25.15	54.00	-28.85
2355.66	42.63	PK	67	1.2	H	-13.14	29.49	74.00	-44.51
2355.66	37.76	Ave	67	1.2	H	-13.14	24.62	54.00	-29.38
2489.39	44.56	PK	91	1.4	V	-13.08	31.48	74.00	-42.52
2489.39	37.01	Ave	91	1.4	V	-13.08	23.93	54.00	-30.07

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: High Channel 2462MHz									
223.45	42.82	QP	178	1.9	H	-11.62	31.20	46.00	-14.80
223.45	33.80	QP	191	1.9	V	-11.62	22.18	46.00	-23.82
4924.00	51.70	PK	166	1.9	V	-0.24	51.46	74.00	-22.54
4924.00	46.85	Ave	166	1.9	V	-0.24	46.61	54.00	-7.39
7386.00	41.66	PK	6	1.2	H	2.84	44.50	74.00	-29.50
7386.00	40.14	Ave	6	1.2	H	2.84	42.98	54.00	-11.02
2318.75	45.81	PK	68	1.8	V	-13.19	32.62	74.00	-41.38
2318.75	39.78	Ave	68	1.8	V	-13.19	26.59	54.00	-27.41
2385.17	42.96	PK	125	1.4	H	-13.14	29.82	74.00	-44.18
2385.17	37.41	Ave	125	1.4	H	-13.14	24.27	54.00	-29.73
2493.73	43.58	PK	111	1.7	V	-13.08	30.50	74.00	-43.50
2493.73	38.60	Ave	111	1.7	V	-13.08	25.52	54.00	-28.48

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Low Channel 2412MHz									
223.45	41.64	QP	90	1.6	H	-11.62	30.02	46.00	-15.98
223.45	36.79	QP	223	1.1	V	-11.62	25.17	46.00	-20.83
4824.00	51.70	PK	76	1.7	V	-1.06	50.64	74.00	-23.36
4824.00	46.14	Ave	76	1.7	V	-1.06	45.08	54.00	-8.92
7236.00	42.20	PK	70	1.1	H	1.33	43.53	74.00	-30.47
7236.00	40.46	Ave	70	1.1	H	1.33	41.79	54.00	-12.21
2320.75	46.68	PK	116	1.5	V	-13.19	33.49	74.00	-40.51
2320.75	39.25	Ave	116	1.5	V	-13.19	26.06	54.00	-27.94
2376.46	43.53	PK	265	1.5	H	-13.14	30.39	74.00	-43.61
2376.46	36.13	Ave	265	1.5	H	-13.14	22.99	54.00	-31.01
2484.74	44.91	PK	251	2.0	V	-13.08	31.83	74.00	-42.17
2484.74	36.27	Ave	251	2.0	V	-13.08	23.19	54.00	-30.81

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Middle Channel 2437MHz									
223.45	40.88	QP	12	1.8	H	-11.62	29.26	46.00	-16.74
223.45	37.03	QP	281	1.5	V	-11.62	25.41	46.00	-20.59
4874.00	50.38	PK	188	1.1	V	-0.62	49.76	74.00	-24.24
4874.00	46.51	Ave	188	1.1	V	-0.62	45.89	54.00	-8.11
7311.00	41.90	PK	326	1.0	H	2.21	44.11	74.00	-29.89
7311.00	39.29	Ave	326	1.0	H	2.21	41.50	54.00	-12.50
2311.93	46.30	PK	238	1.3	V	-13.19	33.11	74.00	-40.89
2311.93	39.42	Ave	238	1.3	V	-13.19	26.23	54.00	-27.77
2384.40	42.40	PK	274	1.7	H	-13.14	29.26	74.00	-44.74
2384.40	37.92	Ave	274	1.7	H	-13.14	24.78	54.00	-29.22
2487.80	44.95	PK	108	1.2	V	-13.08	31.87	74.00	-42.13
2487.80	36.44	Ave	108	1.2	V	-13.08	23.36	54.00	-30.64

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: High Channel 2462MHz									
223.45	40.28	QP	155	1.3	H	-11.62	28.66	46.00	-17.34
223.45	38.35	QP	29	1.7	V	-11.62	26.73	46.00	-19.27
4924.00	51.71	PK	311	1.7	V	-0.24	51.47	74.00	-22.53
4924.00	47.49	Ave	311	1.7	V	-0.24	47.25	54.00	-6.75
7386.00	41.39	PK	279	1.2	H	2.84	44.23	74.00	-29.77
7386.00	38.98	Ave	279	1.2	H	2.84	41.82	54.00	-12.18
2318.17	45.46	PK	253	1.9	V	-13.19	32.27	74.00	-41.73
2318.17	37.95	Ave	253	1.9	V	-13.19	24.76	54.00	-29.24
2360.43	42.66	PK	121	1.0	H	-13.14	29.52	74.00	-44.48
2360.43	37.29	Ave	121	1.0	H	-13.14	24.15	54.00	-29.85
2487.89	44.20	PK	100	1.7	V	-13.08	31.12	74.00	-42.88
2487.89	36.84	Ave	100	1.7	V	-13.08	23.76	54.00	-30.24

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Low Channel 2412MHz									
223.45	43.81	QP	323	1.5	H	-11.62	32.19	46.00	-13.81
223.45	34.14	QP	243	1.3	V	-11.62	22.52	46.00	-23.48
4824.00	50.58	PK	233	1.1	V	-1.06	49.52	74.00	-24.48
4824.00	47.61	Ave	233	1.1	V	-1.06	46.55	54.00	-7.45
7236.00	40.75	PK	194	1.4	H	1.33	42.08	74.00	-31.92
7236.00	40.46	Ave	194	1.4	H	1.33	41.79	54.00	-12.21
2340.34	46.38	PK	21	1.1	V	-13.19	33.19	74.00	-40.81
2340.34	39.82	Ave	21	1.1	V	-13.19	26.63	54.00	-27.37
2377.80	42.71	PK	205	1.0	H	-13.14	29.57	74.00	-44.43
2377.80	38.68	Ave	205	1.0	H	-13.14	25.54	54.00	-28.46
2498.60	42.69	PK	307	1.5	V	-13.08	29.61	74.00	-44.39
2498.60	38.81	Ave	307	1.5	V	-13.08	25.73	54.00	-28.27

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Middle Channel 2437MHz									
223.45	43.59	QP	62	2.0	H	-11.62	31.97	46.00	-14.03
223.45	34.54	QP	101	1.1	V	-11.62	22.92	46.00	-23.08
4874.00	51.08	PK	80	1.8	V	-0.62	50.46	74.00	-23.54
4874.00	48.25	Ave	80	1.8	V	-0.62	47.63	54.00	-6.37
7311.00	39.71	PK	197	1.9	H	2.21	41.92	74.00	-32.08
7311.00	39.22	Ave	197	1.9	H	2.21	41.43	54.00	-12.57
2310.18	45.91	PK	283	1.4	V	-13.19	32.72	74.00	-41.28
2310.18	39.39	Ave	283	1.4	V	-13.19	26.20	54.00	-27.80
2373.85	43.88	PK	40	1.3	H	-13.14	30.74	74.00	-43.26
2373.85	36.05	Ave	40	1.3	H	-13.14	22.91	54.00	-31.09
2497.89	43.88	PK	6	1.2	V	-13.08	30.80	74.00	-43.20
2497.89	38.60	Ave	6	1.2	V	-13.08	25.52	54.00	-28.48

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: High Channel 2462MHz									
223.45	43.21	QP	66	1.3	H	-11.62	31.59	46.00	-14.41
223.45	33.58	QP	253	1.8	V	-11.62	21.96	46.00	-24.04
4924.00	50.21	PK	357	1.5	V	-0.24	49.97	74.00	-24.03
4924.00	48.18	Ave	357	1.5	V	-0.24	47.94	54.00	-6.06
7386.00	39.67	PK	262	1.3	H	2.84	42.51	74.00	-31.49
7386.00	39.74	Ave	262	1.3	H	2.84	42.58	54.00	-11.42
2333.00	45.00	PK	20	1.7	V	-13.19	31.81	74.00	-42.19
2333.00	39.33	Ave	20	1.7	V	-13.19	26.14	54.00	-27.86
2373.47	44.80	PK	230	1.7	H	-13.14	31.66	74.00	-42.34
2373.47	36.32	Ave	230	1.7	H	-13.14	23.18	54.00	-30.82
2499.16	42.71	PK	17	1.5	V	-13.08	29.63	74.00	-44.37
2499.16	36.77	Ave	17	1.5	V	-13.08	23.69	54.00	-30.31

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Low Channel 2412MHz									
223.45	40.73	QP	253	1.3	H	-11.62	29.11	46.00	-16.89
223.45	37.72	QP	146	2.0	V	-11.62	26.10	46.00	-19.90
4824.00	51.38	PK	285	1.7	V	-1.06	50.32	74.00	-23.68
4824.00	48.35	Ave	285	1.7	V	-1.06	47.29	54.00	-6.71
7236.00	42.76	PK	49	1.9	H	1.33	44.09	74.00	-29.91
7236.00	39.09	Ave	49	1.9	H	1.33	40.42	54.00	-13.58
2344.66	45.16	PK	276	1.8	V	-13.19	31.97	74.00	-42.03
2344.66	39.30	Ave	276	1.8	V	-13.19	26.11	54.00	-27.89
2355.36	44.04	PK	295	1.6	H	-13.14	30.90	74.00	-43.10
2355.36	36.15	Ave	295	1.6	H	-13.14	23.01	54.00	-30.99
2490.30	44.55	PK	152	1.6	V	-13.08	31.47	74.00	-42.53
2490.30	37.72	Ave	152	1.6	V	-13.08	24.64	54.00	-29.36

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Middle Channel 2437MHz									
223.45	40.12	QP	280	1.2	H	-11.62	28.50	46.00	-17.50
223.45	38.21	QP	266	1.9	V	-11.62	26.59	46.00	-19.41
4874.00	52.16	PK	143	1.1	V	-0.62	51.54	74.00	-22.46
4874.00	47.18	Ave	143	1.1	V	-0.62	46.56	54.00	-7.44
7311.00	41.81	PK	114	1.8	H	2.21	44.02	74.00	-29.98
7311.00	37.93	Ave	114	1.8	H	2.21	40.14	54.00	-13.86
2328.29	46.67	PK	202	1.8	V	-13.19	33.48	74.00	-40.52
2328.29	39.26	Ave	202	1.8	V	-13.19	26.07	54.00	-27.93
2351.43	42.09	PK	36	1.0	H	-13.14	28.95	74.00	-45.05
2351.43	37.58	Ave	36	1.0	H	-13.14	24.44	54.00	-29.56
2497.69	44.50	PK	109	1.9	V	-13.08	31.42	74.00	-42.58
2497.69	36.19	Ave	109	1.9	V	-13.08	23.11	54.00	-30.89

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: High Channel 2462MHz									
223.45	39.82	QP	41	1.6	H	-11.62	28.20	46.00	-17.80
223.45	37.92	QP	333	1.8	V	-11.62	26.30	46.00	-19.70
4924.00	53.33	PK	231	1.0	V	-0.24	53.09	74.00	-20.91
4924.00	47.67	Ave	231	1.0	V	-0.24	47.43	54.00	-6.57
7386.00	40.74	PK	28	1.2	H	2.84	43.58	74.00	-30.42
7386.00	37.46	Ave	28	1.2	H	2.84	40.30	54.00	-13.70
2344.31	45.17	PK	328	1.0	V	-13.19	31.98	74.00	-42.02
2344.31	37.04	Ave	328	1.0	V	-13.19	23.85	54.00	-30.15
2374.85	43.45	PK	34	1.9	H	-13.14	30.31	74.00	-43.69
2374.85	37.07	Ave	34	1.9	H	-13.14	23.93	54.00	-30.07
2494.16	42.44	PK	211	1.7	V	-13.08	29.36	74.00	-44.64
2494.16	38.53	Ave	211	1.7	V	-13.08	25.45	54.00	-28.55

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Low Channel 2422MHz									
223.45	38.89	QP	215	1.0	H	-11.62	27.27	46.00	-18.73
223.45	36.86	QP	63	1.6	V	-11.62	25.24	46.00	-20.76
4844.00	51.63	PK	89	1.2	V	-1.06	50.57	74.00	-23.43
4844.00	46.33	Ave	89	1.2	V	-1.06	45.27	54.00	-8.73
7266.00	38.14	PK	84	1.1	H	1.33	39.47	74.00	-34.53
7266.00	35.46	Ave	84	1.1	H	1.33	36.79	54.00	-17.21
2328.70	45.89	PK	138	2.0	V	-13.19	32.70	74.00	-41.30
2328.70	38.57	Ave	138	2.0	V	-13.19	25.38	54.00	-28.62
2370.37	43.29	PK	27	1.2	H	-13.14	30.15	74.00	-43.85
2370.37	37.33	Ave	27	1.2	H	-13.14	24.19	54.00	-29.81
2497.59	44.81	PK	202	1.4	V	-13.08	31.73	74.00	-42.27
2497.59	38.36	Ave	202	1.4	V	-13.08	25.28	54.00	-28.72

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Middle Channel 2437MHz									
223.45	38.59	QP	98	1.3	H	-11.62	26.97	46.00	-19.03
223.45	37.56	QP	222	1.8	V	-11.62	25.94	46.00	-20.06
4874.00	50.94	PK	310	1.3	V	-0.62	50.32	74.00	-23.68
4874.00	46.78	Ave	310	1.3	V	-0.62	46.16	54.00	-7.84
7311.00	38.59	PK	122	1.1	H	2.21	40.80	74.00	-33.20
7311.00	34.66	Ave	122	1.1	H	2.21	36.87	54.00	-17.13
2311.39	45.71	PK	158	1.8	V	-13.19	32.52	74.00	-41.48
2311.39	37.89	Ave	158	1.8	V	-13.19	24.70	54.00	-29.30
2353.08	42.93	PK	291	1.8	H	-13.14	29.79	74.00	-44.21
2353.08	37.57	Ave	291	1.8	H	-13.14	24.43	54.00	-29.57
2493.54	44.16	PK	270	1.3	V	-13.08	31.08	74.00	-42.92
2493.54	38.07	Ave	270	1.3	V	-13.08	24.99	54.00	-29.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: High Channel 2452MHz									
223.45	37.71	QP	51	1.3	H	-11.62	26.09	46.00	-19.91
223.45	36.75	QP	273	1.8	V	-11.62	25.13	46.00	-20.87
4904.00	51.75	PK	49	1.8	V	-0.24	51.51	74.00	-22.49
4904.00	46.92	Ave	49	1.8	V	-0.24	46.68	54.00	-7.32
7356.00	39.11	PK	183	1.4	H	2.84	41.95	74.00	-32.05
7356.00	35.34	Ave	183	1.4	H	2.84	38.18	54.00	-15.82
2347.25	46.07	PK	316	1.7	V	-13.19	32.88	74.00	-41.12
2347.25	37.37	Ave	316	1.7	V	-13.19	24.18	54.00	-29.82
2376.89	42.98	PK	166	1.5	H	-13.14	29.84	74.00	-44.16
2376.89	37.71	Ave	166	1.5	H	-13.14	24.57	54.00	-29.43
2486.07	44.72	PK	33	1.7	V	-13.08	31.64	74.00	-42.36
2486.07	37.54	Ave	33	1.7	V	-13.08	24.46	54.00	-29.54

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

Model: NFT 1N AF

Test Frequency: Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Low Channel 2412MHz									
223.45	40.27	QP	319	1.9	H	-11.62	28.65	46.00	-17.35
223.45	34.67	QP	78	1.8	V	-11.62	23.05	46.00	-22.95
4824.00	48.71	PK	101	1.3	V	-1.06	47.65	74.00	-26.35
4824.00	43.35	Ave	101	1.3	V	-1.06	42.29	54.00	-11.71
7236.00	44.34	PK	209	1.7	H	1.33	45.67	74.00	-28.33
7236.00	40.43	Ave	209	1.7	H	1.33	41.76	54.00	-12.24
2321.61	46.72	PK	294	2.0	V	-13.19	33.53	74.00	-40.47
2321.61	39.40	Ave	294	2.0	V	-13.19	26.21	54.00	-27.79
2364.60	44.28	PK	156	1.2	H	-13.14	31.14	74.00	-42.86
2364.60	38.84	Ave	156	1.2	H	-13.14	25.70	54.00	-28.30
2493.56	42.98	PK	312	1.2	V	-13.08	29.90	74.00	-44.10
2493.56	38.61	Ave	312	1.2	V	-13.08	25.53	54.00	-28.47

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: Middle Channel 2437MHz									
223.45	40.70	QP	151	1.7	H	-11.62	29.08	46.00	-16.92
223.45	33.27	QP	142	1.6	V	-11.62	21.65	46.00	-24.35
4874.00	48.29	PK	257	1.9	V	-0.62	47.67	74.00	-26.33
4874.00	43.11	Ave	257	1.9	V	-0.62	42.49	54.00	-11.51
7311.00	44.33	PK	118	1.5	H	2.21	46.54	74.00	-27.46
7311.00	39.85	Ave	118	1.5	H	2.21	42.06	54.00	-11.94
2328.78	46.29	PK	78	1.7	V	-13.19	33.10	74.00	-40.90
2328.78	37.60	Ave	78	1.7	V	-13.19	24.41	54.00	-29.59
2385.04	44.17	PK	101	1.9	H	-13.14	31.03	74.00	-42.97
2385.04	36.89	Ave	101	1.9	H	-13.14	23.75	54.00	-30.25
2488.73	43.21	PK	307	1.4	V	-13.08	30.13	74.00	-43.87
2488.73	38.58	Ave	307	1.4	V	-13.08	25.50	54.00	-28.50

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11b: High Channel 2462MHz									
223.45	42.15	QP	172	1.5	H	-11.62	30.53	46.00	-15.47
223.45	34.19	QP	222	1.9	V	-11.62	22.57	46.00	-23.43
4924.00	48.79	PK	83	1.5	V	-0.24	48.55	74.00	-25.45
4924.00	44.57	Ave	83	1.5	V	-0.24	44.33	54.00	-9.67
7386.00	44.66	PK	264	1.7	H	2.84	47.50	74.00	-26.50
7386.00	39.20	Ave	264	1.7	H	2.84	42.04	54.00	-11.96
2329.04	45.80	PK	172	1.3	V	-13.19	32.61	74.00	-41.39
2329.04	37.90	Ave	172	1.3	V	-13.19	24.71	54.00	-29.29
2375.84	43.98	PK	90	1.1	H	-13.14	30.84	74.00	-43.16
2375.84	37.55	Ave	90	1.1	H	-13.14	24.41	54.00	-29.59
2484.58	44.46	PK	85	1.4	V	-13.08	31.38	74.00	-42.62
2484.58	36.31	Ave	85	1.4	V	-13.08	23.23	54.00	-30.77

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Low Channel 2412MHz									
223.45	40.31	QP	199	1.0	H	-11.62	28.69	46.00	-17.31
223.45	33.67	QP	48	1.2	V	-11.62	22.05	46.00	-23.95
4824.00	49.45	PK	235	1.9	V	-1.06	48.39	74.00	-25.61
4824.00	44.82	Ave	235	1.9	V	-1.06	43.76	54.00	-10.24
7236.00	44.34	PK	111	1.5	H	1.33	45.67	74.00	-28.33
7236.00	40.89	Ave	111	1.5	H	1.33	42.22	54.00	-11.78
2320.22	46.22	PK	360	1.7	V	-13.19	33.03	74.00	-40.97
2320.22	38.64	Ave	360	1.7	V	-13.19	25.45	54.00	-28.55
2377.80	42.16	PK	93	1.1	H	-13.14	29.02	74.00	-44.98
2377.80	37.96	Ave	93	1.1	H	-13.14	24.82	54.00	-29.18
2485.67	43.09	PK	274	1.4	V	-13.08	30.01	74.00	-43.99
2485.67	36.58	Ave	274	1.4	V	-13.08	23.50	54.00	-30.50

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: Middle Channel 2437MHz									
223.45	39.17	QP	125	1.6	H	-11.62	27.55	46.00	-18.45
223.45	33.50	QP	261	1.9	V	-11.62	21.88	46.00	-24.12
4874.00	49.68	PK	211	1.8	V	-0.62	49.06	74.00	-24.94
4874.00	45.14	Ave	211	1.8	V	-0.62	44.52	54.00	-9.48
7311.00	44.35	PK	334	1.1	H	2.21	46.56	74.00	-27.44
7311.00	41.30	Ave	334	1.1	H	2.21	43.51	54.00	-10.49
2325.19	46.32	PK	110	1.3	V	-13.19	33.13	74.00	-40.87
2325.19	37.61	Ave	110	1.3	V	-13.19	24.42	54.00	-29.58
2371.00	42.09	PK	262	2.0	H	-13.14	28.95	74.00	-45.05
2371.00	38.56	Ave	262	2.0	H	-13.14	25.42	54.00	-28.58
2490.76	43.32	PK	72	1.6	V	-13.08	30.24	74.00	-43.76
2490.76	38.68	Ave	72	1.6	V	-13.08	25.60	54.00	-28.40

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11b: High Channel 2462MHz									
223.45	38.56	QP	79	1.3	H	-11.62	26.94	46.00	-19.06
223.45	33.38	QP	197	2.0	V	-11.62	21.76	46.00	-24.24
4924.00	48.58	PK	33	1.8	V	-0.24	48.34	74.00	-25.66
4924.00	44.92	Ave	33	1.8	V	-0.24	44.68	54.00	-9.32
7386.00	43.44	PK	347	1.5	H	2.84	46.28	74.00	-27.72
7386.00	41.69	Ave	347	1.5	H	2.84	44.53	54.00	-9.47
2311.09	45.80	PK	229	1.2	V	-13.19	32.61	74.00	-41.39
2311.09	39.33	Ave	229	1.2	V	-13.19	26.14	54.00	-27.86
2388.09	42.09	PK	319	1.1	H	-13.14	28.95	74.00	-45.05
2388.09	36.71	Ave	319	1.1	H	-13.14	23.57	54.00	-30.43
2484.93	44.37	PK	175	1.7	V	-13.08	31.29	74.00	-42.71
2484.93	38.69	Ave	175	1.7	V	-13.08	25.61	54.00	-28.39

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Low Channel 2412MHz									
223.45	41.75	QP	280	1.1	H	-11.62	30.13	46.00	-15.87
223.45	34.45	QP	256	1.1	V	-11.62	22.83	46.00	-23.17
4824.00	49.92	PK	204	1.5	V	-1.06	48.86	74.00	-25.14
4824.00	44.57	Ave	204	1.5	V	-1.06	43.51	54.00	-10.49
7236.00	43.47	PK	262	1.7	H	1.33	44.80	74.00	-29.20
7236.00	39.31	Ave	262	1.7	H	1.33	40.64	54.00	-13.36
2349.54	45.16	PK	252	1.9	V	-13.19	31.97	74.00	-42.03
2349.54	38.84	Ave	252	1.9	V	-13.19	25.65	54.00	-28.35
2371.87	42.16	PK	131	1.4	H	-13.14	29.02	74.00	-44.98
2371.87	38.13	Ave	131	1.4	H	-13.14	24.99	54.00	-29.01
2488.26	43.31	PK	323	1.7	V	-13.08	30.23	74.00	-43.77
2488.26	38.24	Ave	323	1.7	V	-13.08	25.16	54.00	-28.84

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: Middle Channel 2437MHz									
223.45	41.19	QP	136	1.7	H	-11.62	29.57	46.00	-16.43
223.45	35.41	QP	222	1.2	V	-11.62	23.79	46.00	-22.21
4874.00	51.05	PK	133	1.4	V	-0.62	50.43	74.00	-23.57
4874.00	44.15	Ave	133	1.4	V	-0.62	43.53	54.00	-10.47
7311.00	43.66	PK	173	1.1	H	2.21	45.87	74.00	-28.13
7311.00	40.62	Ave	173	1.1	H	2.21	42.83	54.00	-11.17
2343.87	45.09	PK	323	1.2	V	-13.19	31.90	74.00	-42.10
2343.87	37.29	Ave	323	1.2	V	-13.19	24.10	54.00	-29.90
2373.90	44.59	PK	125	1.1	H	-13.14	31.45	74.00	-42.55
2373.90	38.75	Ave	125	1.1	H	-13.14	25.61	54.00	-28.39
2484.71	42.84	PK	10	1.3	V	-13.08	29.76	74.00	-44.24
2484.71	37.60	Ave	10	1.3	V	-13.08	24.52	54.00	-29.48

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1 11g: High Channel 2462MHz									
223.45	40.69	QP	277	1.3	H	-11.62	29.07	46.00	-16.93
223.45	36.74	QP	175	2.0	V	-11.62	25.12	46.00	-20.88
4924.00	49.65	PK	343	1.9	V	-0.24	49.41	74.00	-24.59
4924.00	44.88	Ave	343	1.9	V	-0.24	44.64	54.00	-9.36
7386.00	43.55	PK	40	1.6	H	2.84	46.39	74.00	-27.61
7386.00	40.85	Ave	40	1.6	H	2.84	43.69	54.00	-10.31
2324.18	45.96	PK	243	1.8	V	-13.19	32.77	74.00	-41.23
2324.18	39.30	Ave	243	1.8	V	-13.19	26.11	54.00	-27.89
2355.85	42.82	PK	185	1.1	H	-13.14	29.68	74.00	-44.32
2355.85	38.92	Ave	185	1.1	H	-13.14	25.78	54.00	-28.22
2488.88	44.07	PK	348	1.4	V	-13.08	30.99	74.00	-43.01
2488.88	36.29	Ave	348	1.4	V	-13.08	23.21	54.00	-30.79

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Low Channel 2412MHz									
223.45	38.95	QP	264	1.2	H	-11.62	27.33	46.00	-18.67
223.45	34.43	QP	95	1.4	V	-11.62	22.81	46.00	-23.19
4824.00	48.65	PK	191	1.4	V	-1.06	47.59	74.00	-26.41
4824.00	46.31	Ave	191	1.4	V	-1.06	45.25	54.00	-8.75
7236.00	41.99	PK	22	1.5	H	1.33	43.32	74.00	-30.68
7236.00	40.33	Ave	22	1.5	H	1.33	41.66	54.00	-12.34
2331.19	45.31	PK	91	1.9	V	-13.19	32.12	74.00	-41.88
2331.19	37.08	Ave	91	1.9	V	-13.19	23.89	54.00	-30.11
2374.12	42.97	PK	207	1.8	H	-13.14	29.83	74.00	-44.17
2374.12	36.36	Ave	207	1.8	H	-13.14	23.22	54.00	-30.78
2493.30	43.07	PK	230	1.2	V	-13.08	29.99	74.00	-44.01
2493.30	37.35	Ave	230	1.2	V	-13.08	24.27	54.00	-29.73

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: Middle Channel 2437MHz									
223.45	40.02	QP	294	1.9	H	-11.62	28.40	46.00	-17.60
223.45	35.46	QP	209	1.4	V	-11.62	23.84	46.00	-22.16
4874.00	49.21	PK	33	1.4	V	-0.62	48.59	74.00	-25.41
4874.00	46.50	Ave	33	1.4	V	-0.62	45.88	54.00	-8.12
7311.00	41.30	PK	15	1.6	H	2.21	43.51	74.00	-30.49
7311.00	40.29	Ave	15	1.6	H	2.21	42.50	54.00	-11.50
2337.94	45.27	PK	114	1.9	V	-13.19	32.08	74.00	-41.92
2337.94	39.64	Ave	114	1.9	V	-13.19	26.45	54.00	-27.55
2356.78	43.06	PK	294	1.1	H	-13.14	29.92	74.00	-44.08
2356.78	37.88	Ave	294	1.1	H	-13.14	24.74	54.00	-29.26
2499.82	43.93	PK	161	1.2	V	-13.08	30.85	74.00	-43.15
2499.82	36.92	Ave	161	1.2	V	-13.08	23.84	54.00	-30.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT2 11g: High Channel 2462MHz									
223.45	41.52	QP	153	1.1	H	-11.62	29.90	46.00	-16.10
223.45	35.12	QP	0	1.8	V	-11.62	23.50	46.00	-22.50
4924.00	50.64	PK	317	1.3	V	-0.24	50.40	74.00	-23.60
4924.00	46.63	Ave	317	1.3	V	-0.24	46.39	54.00	-7.61
7386.00	42.66	PK	323	1.1	H	2.84	45.50	74.00	-28.50
7386.00	41.17	Ave	323	1.1	H	2.84	44.01	54.00	-9.99
2343.80	46.26	PK	144	1.7	V	-13.19	33.07	74.00	-40.93
2343.80	39.35	Ave	144	1.7	V	-13.19	26.16	54.00	-27.84
2354.42	44.67	PK	89	1.2	H	-13.14	31.53	74.00	-42.47
2354.42	36.90	Ave	89	1.2	H	-13.14	23.76	54.00	-30.24
2485.61	43.71	PK	152	1.3	V	-13.08	30.63	74.00	-43.37
2485.61	38.08	Ave	152	1.3	V	-13.08	25.00	54.00	-29.00

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Low Channel 2412MHz									
223.45	41.73	QP	43	1.6	H	-11.62	30.11	46.00	-15.89
223.45	37.04	QP	142	1.2	V	-11.62	25.42	46.00	-20.58
4824.00	51.13	PK	44	1.4	V	-1.06	50.07	74.00	-23.93
4824.00	44.45	Ave	44	1.4	V	-1.06	43.39	54.00	-10.61
7236.00	42.76	PK	5	1.2	H	1.33	44.09	74.00	-29.91
7236.00	40.28	Ave	5	1.2	H	1.33	41.61	54.00	-12.39
2337.90	45.77	PK	108	1.6	V	-13.19	32.58	74.00	-41.42
2337.90	37.49	Ave	108	1.6	V	-13.19	24.30	54.00	-29.70
2370.44	42.49	PK	256	1.8	H	-13.14	29.35	74.00	-44.65
2370.44	36.11	Ave	256	1.8	H	-13.14	22.97	54.00	-31.03
2499.65	43.30	PK	19	1.1	V	-13.08	30.22	74.00	-43.78
2499.65	36.51	Ave	19	1.1	V	-13.08	23.43	54.00	-30.57

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: Middle Channel 2437MHz									
223.45	42.57	QP	184	1.1	H	-11.62	30.95	46.00	-15.05
223.45	38.12	QP	216	1.5	V	-11.62	26.50	46.00	-19.50
4874.00	50.92	PK	287	1.6	V	-0.62	50.30	74.00	-23.70
4874.00	45.69	Ave	287	1.6	V	-0.62	45.07	54.00	-8.93
7311.00	41.52	PK	112	1.8	H	2.21	43.73	74.00	-30.27
7311.00	40.79	Ave	112	1.8	H	2.21	43.00	54.00	-11.00
2347.75	45.30	PK	113	1.1	V	-13.19	32.11	74.00	-41.89
2347.75	39.04	Ave	113	1.1	V	-13.19	25.85	54.00	-28.15
2380.35	44.69	PK	327	1.7	H	-13.14	31.55	74.00	-42.45
2380.35	36.94	Ave	327	1.7	H	-13.14	23.80	54.00	-30.20
2487.48	42.70	PK	233	1.8	V	-13.08	29.62	74.00	-44.38
2487.48	36.20	Ave	233	1.8	V	-13.08	23.12	54.00	-30.88

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n20: High Channel 2462MHz									
223.45	43.41	QP	270	1.5	H	-11.62	31.79	46.00	-14.21
223.45	37.70	QP	238	1.9	V	-11.62	26.08	46.00	-19.92
4924.00	50.33	PK	33	2.0	V	-0.24	50.09	74.00	-23.91
4924.00	47.12	Ave	33	2.0	V	-0.24	46.88	54.00	-7.12
7386.00	40.53	PK	249	1.9	H	2.84	43.37	74.00	-30.63
7386.00	41.94	Ave	249	1.9	H	2.84	44.78	54.00	-9.22
2337.32	46.83	PK	330	1.8	V	-13.19	33.64	74.00	-40.36
2337.32	39.74	Ave	330	1.8	V	-13.19	26.55	54.00	-27.45
2368.16	42.33	PK	116	1.7	H	-13.14	29.19	74.00	-44.81
2368.16	36.75	Ave	116	1.7	H	-13.14	23.61	54.00	-30.39
2487.68	42.28	PK	248	1.1	V	-13.08	29.20	74.00	-44.80
2487.68	38.40	Ave	248	1.1	V	-13.08	25.32	54.00	-28.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Low Channel 2422MHz									
223.45	43.42	QP	68	1.9	H	-11.62	31.80	46.00	-14.20
223.45	38.42	QP	314	1.6	V	-11.62	26.80	46.00	-19.20
4844.00	48.94	PK	142	1.4	V	-1.06	47.88	74.00	-26.12
4844.00	44.74	Ave	142	1.4	V	-1.06	43.68	54.00	-10.32
7266.00	38.44	PK	139	1.4	H	1.33	39.77	74.00	-34.23
7266.00	39.77	Ave	139	1.4	H	1.33	41.10	54.00	-12.90
2338.62	45.45	PK	349	1.8	V	-13.19	32.26	74.00	-41.74
2338.62	38.95	Ave	349	1.8	V	-13.19	25.76	54.00	-28.24
2359.80	43.81	PK	196	1.0	H	-13.14	30.67	74.00	-43.33
2359.80	36.50	Ave	196	1.0	H	-13.14	23.36	54.00	-30.64
2494.59	44.88	PK	250	1.7	V	-13.08	31.80	74.00	-42.20
2494.59	37.79	Ave	250	1.7	V	-13.08	24.71	54.00	-29.29

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: Middle Channel 2437MHz									
223.45	43.92	QP	25	1.7	H	-11.62	32.30	46.00	-13.70
223.45	38.59	QP	204	1.0	V	-11.62	26.97	46.00	-19.03
4874.00	48.52	PK	144	1.6	V	-0.62	47.90	74.00	-26.10
4874.00	44.83	Ave	144	1.6	V	-0.62	44.21	54.00	-9.79
7311.00	38.89	PK	209	1.0	H	2.21	41.10	74.00	-32.90
7311.00	39.10	Ave	209	1.0	H	2.21	41.31	54.00	-12.69
2333.44	46.66	PK	210	1.4	V	-13.19	33.47	74.00	-40.53
2333.44	37.87	Ave	210	1.4	V	-13.19	24.68	54.00	-29.32
2358.04	44.86	PK	216	1.2	H	-13.14	31.72	74.00	-42.28
2358.04	37.88	Ave	216	1.2	H	-13.14	24.74	54.00	-29.26
2489.76	43.76	PK	245	1.3	V	-13.08	30.68	74.00	-43.32
2489.76	36.87	Ave	245	1.3	V	-13.08	23.79	54.00	-30.21

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
ANT1+ANT2 n40: High Channel 2452MHz									
223.45	43.01	QP	220	1.3	H	-11.62	31.39	46.00	-14.61
223.45	38.32	QP	12	1.6	V	-11.62	26.70	46.00	-19.30
4904.00	48.98	PK	291	1.7	V	-0.24	48.74	74.00	-25.26
4904.00	44.89	Ave	291	1.7	V	-0.24	44.65	54.00	-9.35
7356.00	38.03	PK	103	1.5	H	2.84	40.87	74.00	-33.13
7356.00	38.23	Ave	103	1.5	H	2.84	41.07	54.00	-12.93
2313.78	46.87	PK	126	1.8	V	-13.19	33.68	74.00	-40.32
2313.78	39.66	Ave	126	1.8	V	-13.19	26.47	54.00	-27.53
2367.99	44.42	PK	64	1.9	H	-13.14	31.28	74.00	-42.72
2367.99	36.23	Ave	64	1.9	H	-13.14	23.09	54.00	-30.91
2499.60	42.72	PK	342	1.1	V	-13.08	29.64	74.00	-44.36
2499.60	36.32	Ave	342	1.1	V	-13.08	23.24	54.00	-30.76

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Band Edge Measurement

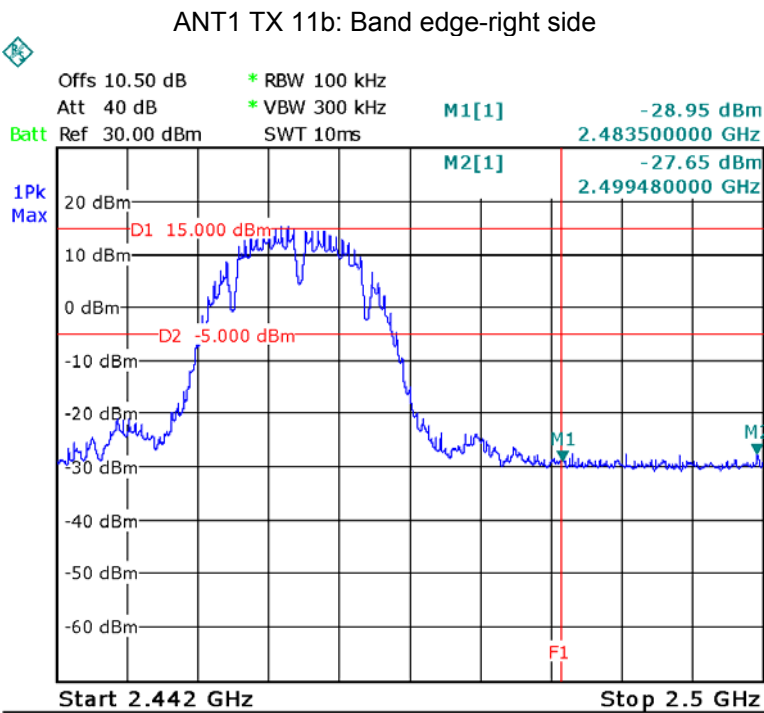
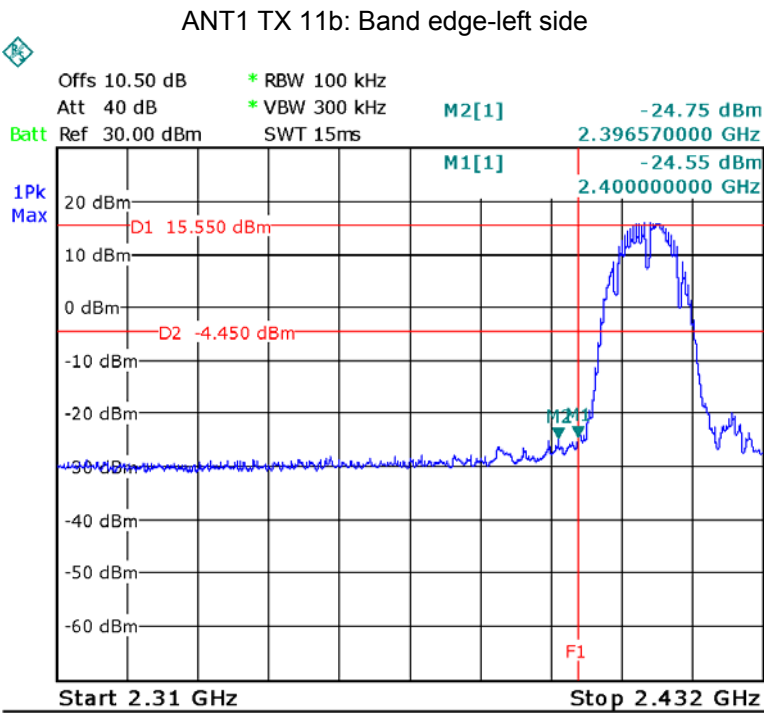
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance v03r03 June 9, 2015
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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)).
Test Mode:	Transmitting

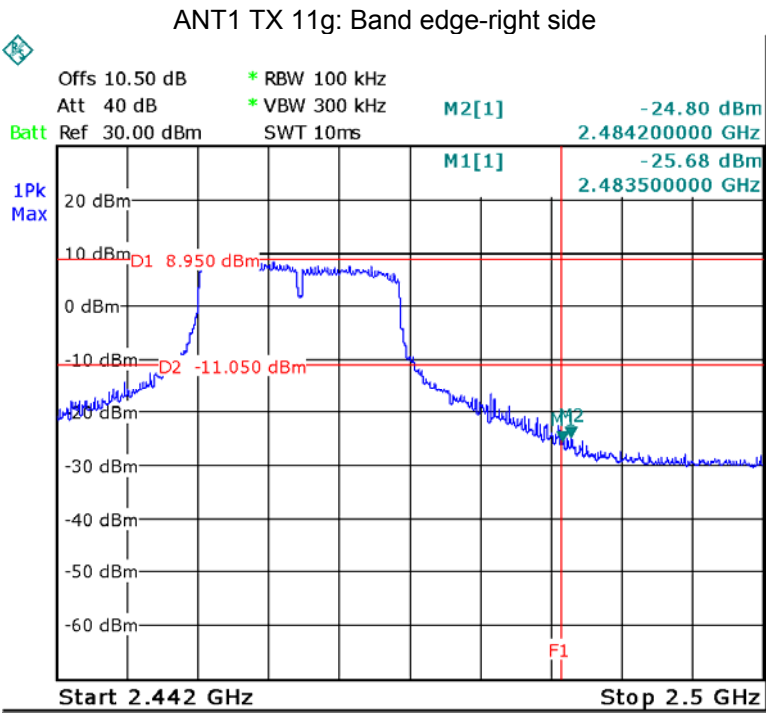
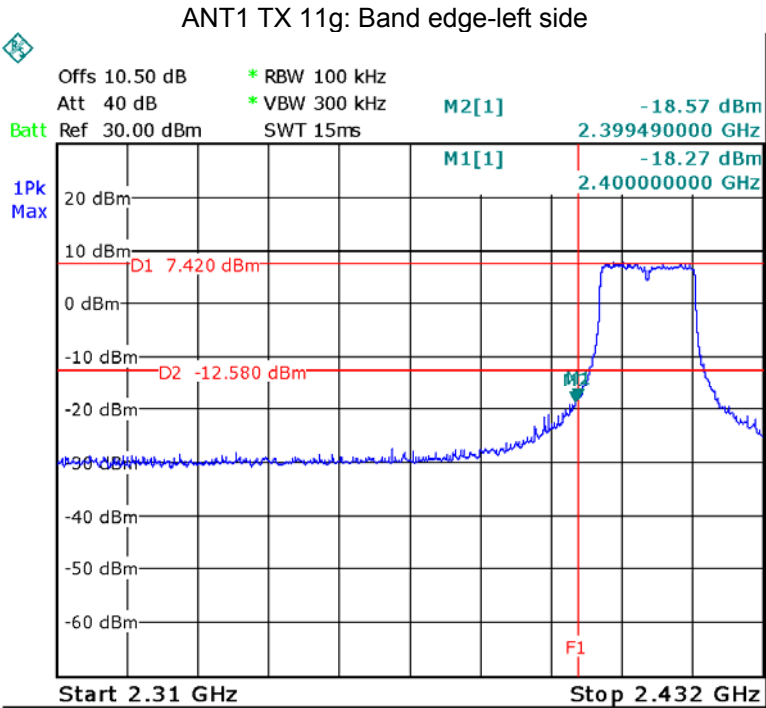
8.1 Test Produce

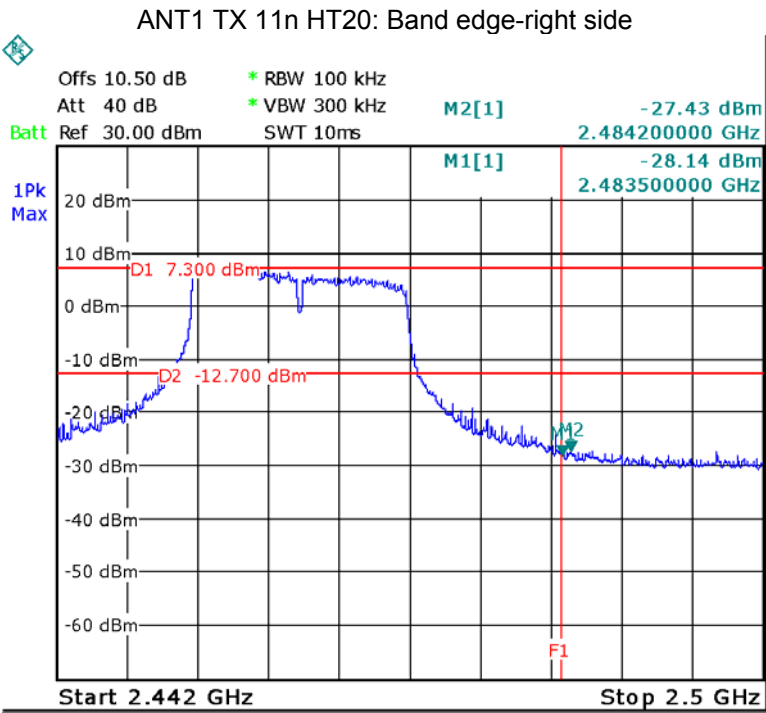
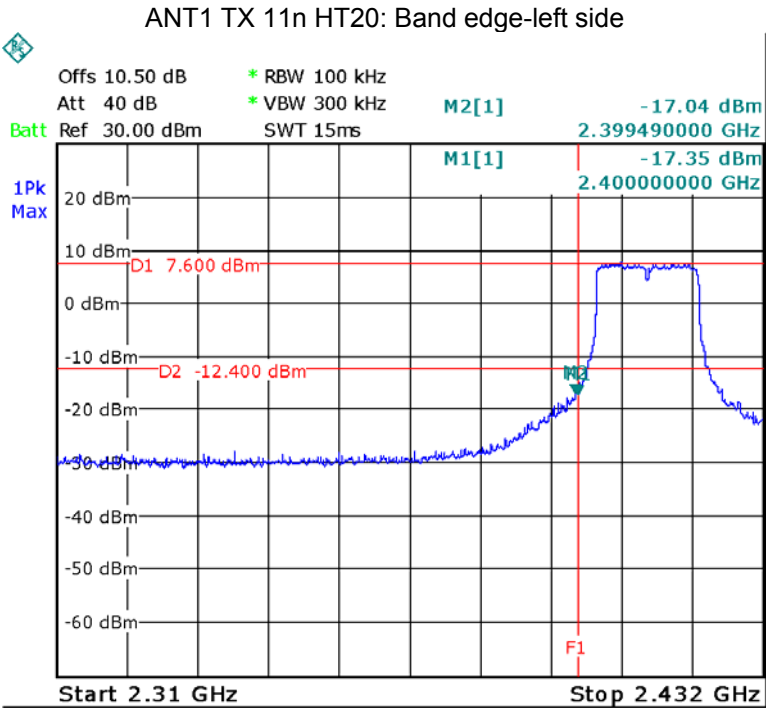
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

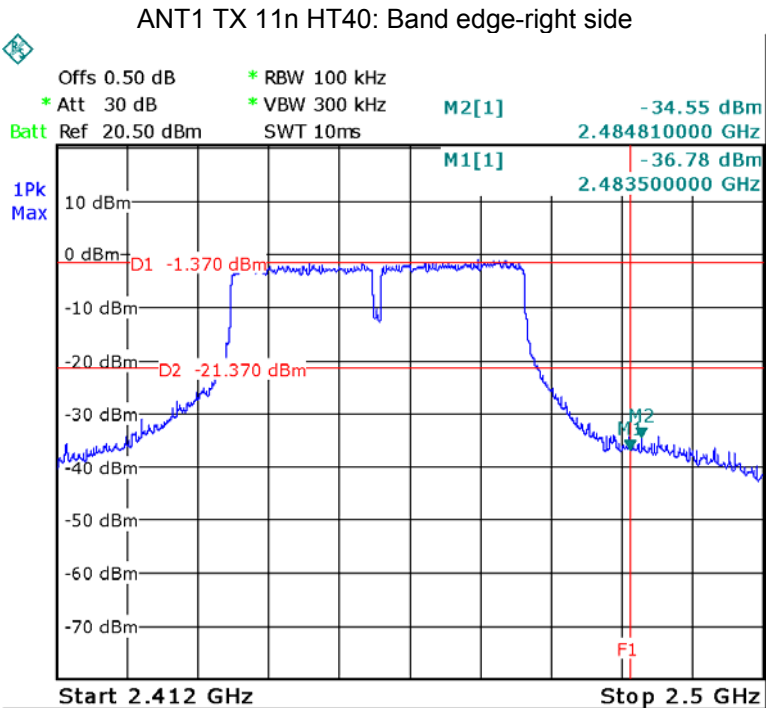
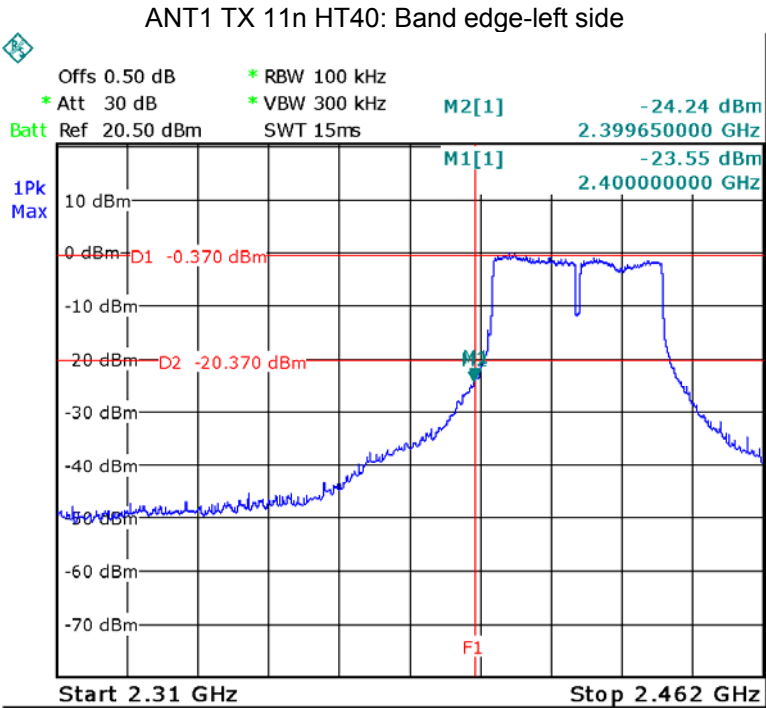
8.2 Test Result

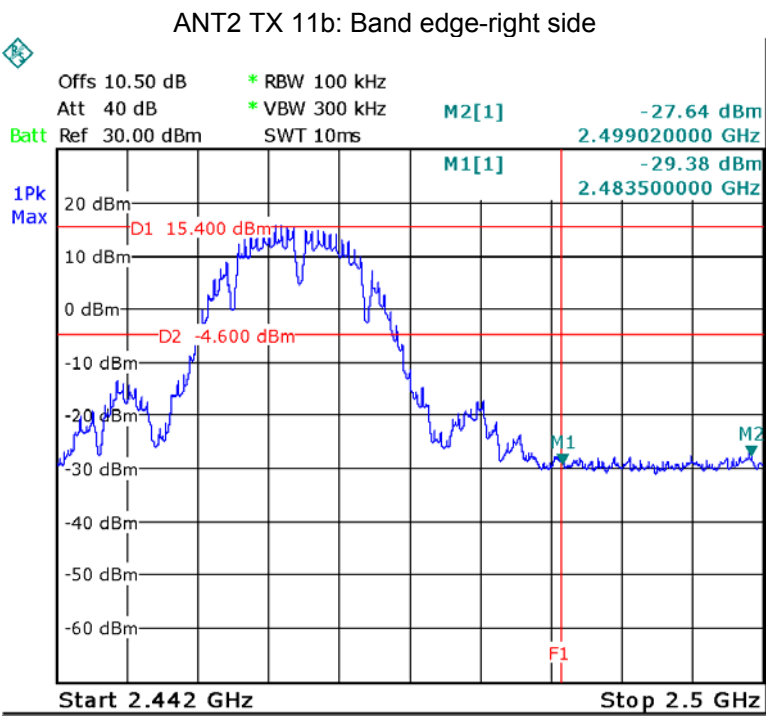
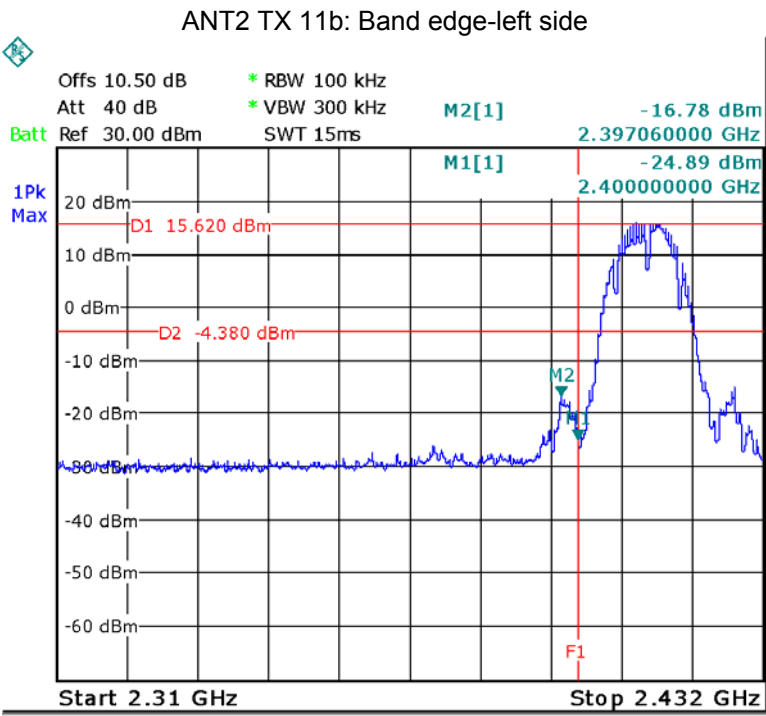
Test result plots shown as follows:

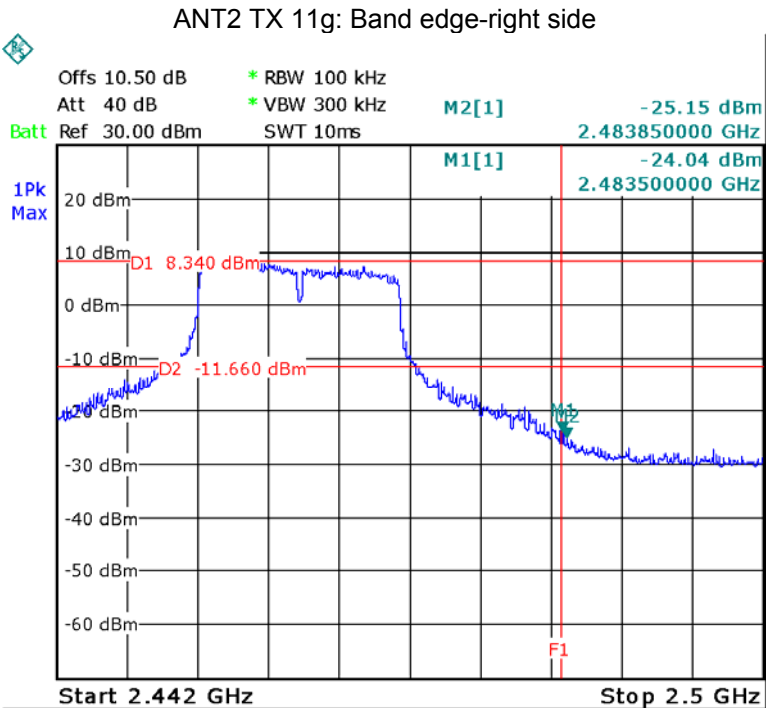
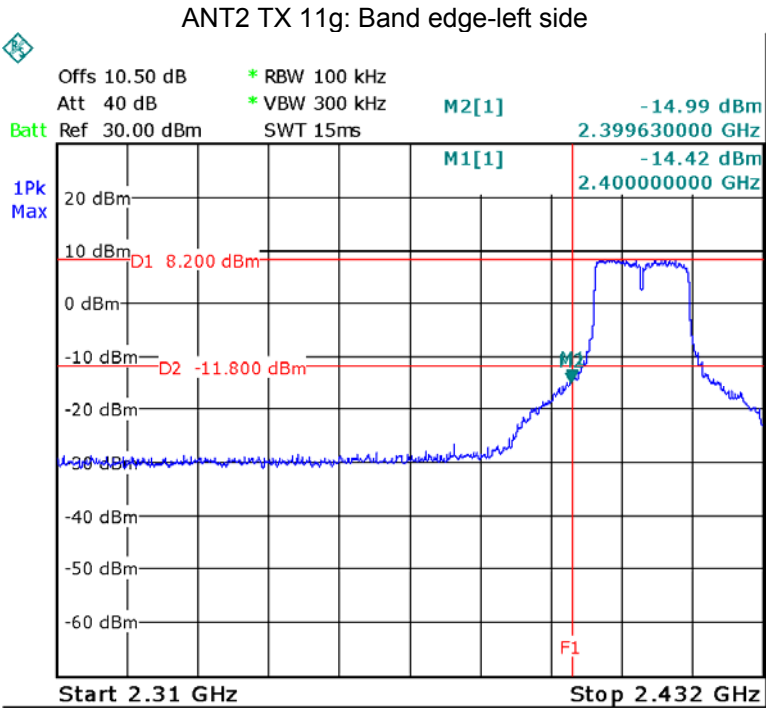




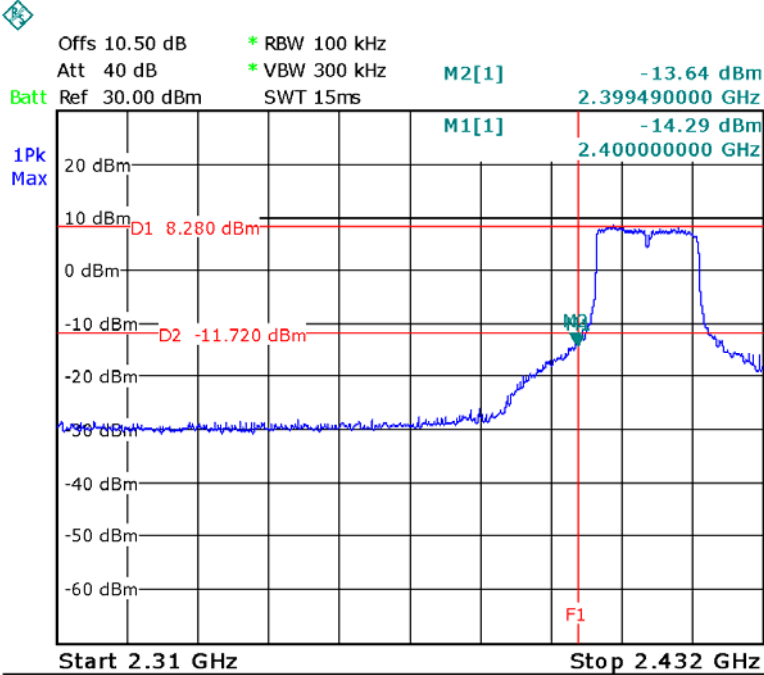




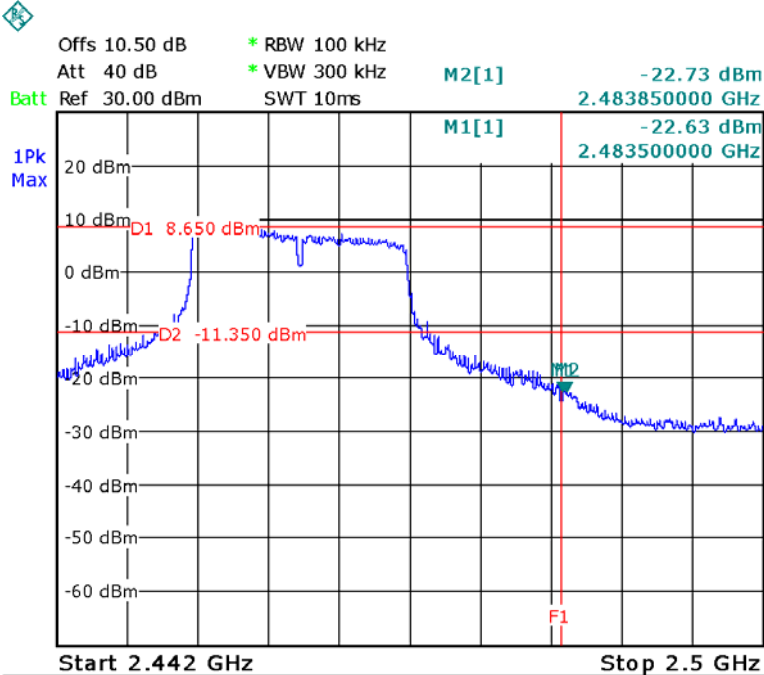




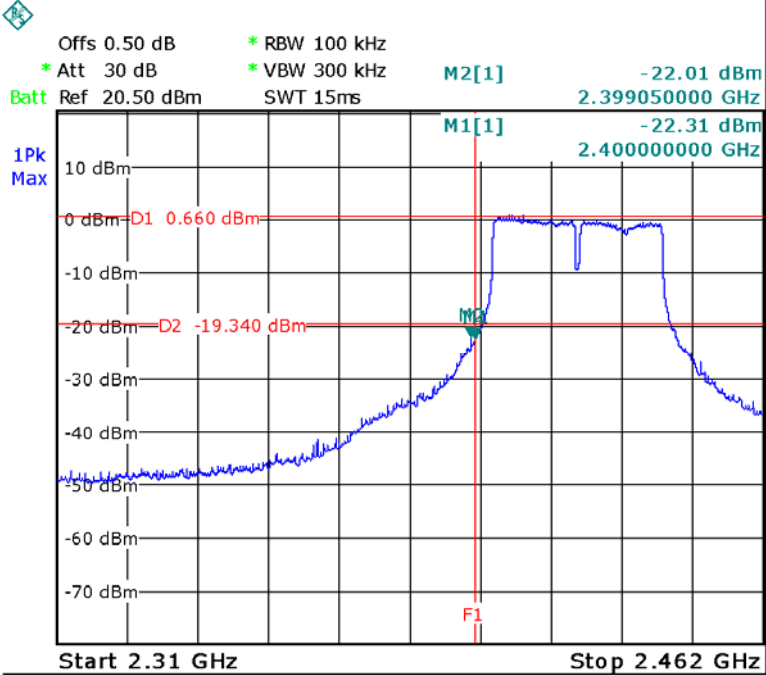
ANT2 TX 11n HT20: Band edge-left side



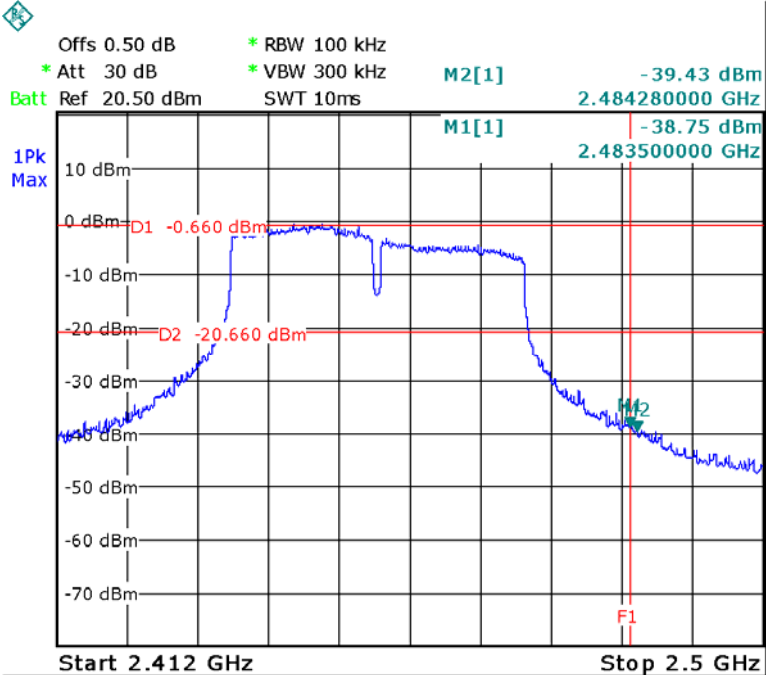
ANT2 TX 11n HT20: Band edge-right side



ANT2 TX 11n HT40: Band edge-left side



ANT2 TX 11n HT40: Band edge-right side



9 6 dB Bandwidth Measurement

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

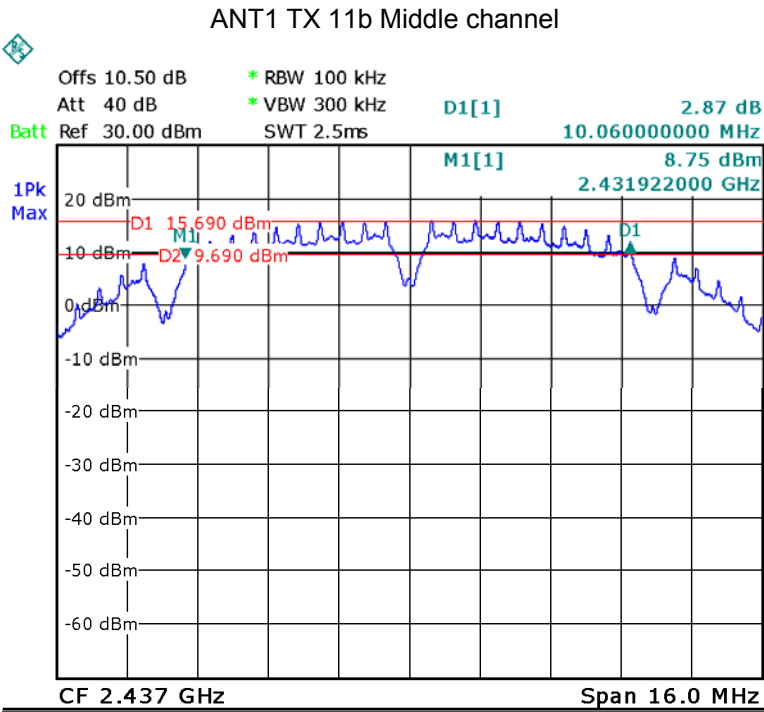
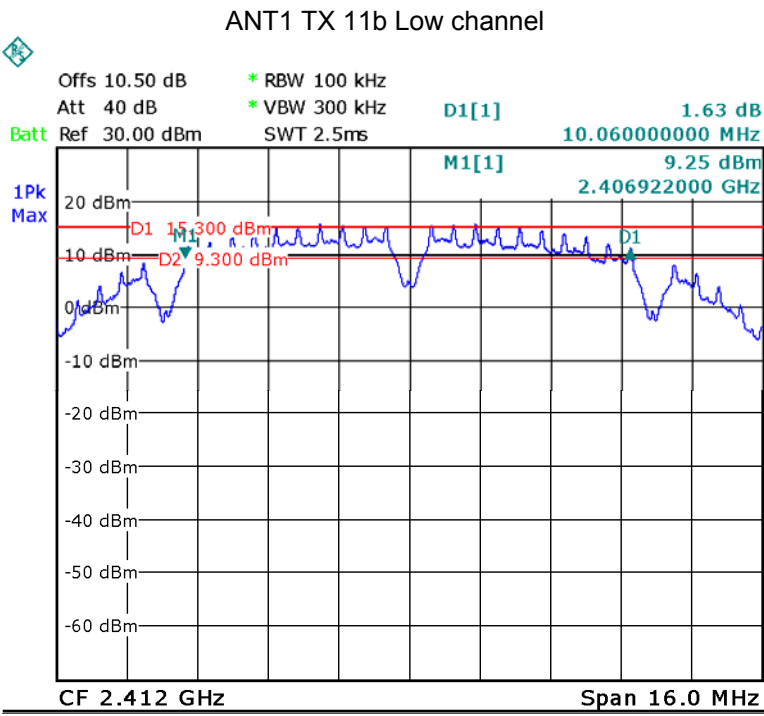
558074 D01 DTS Meas Guidance v03r03 June 9, 2015

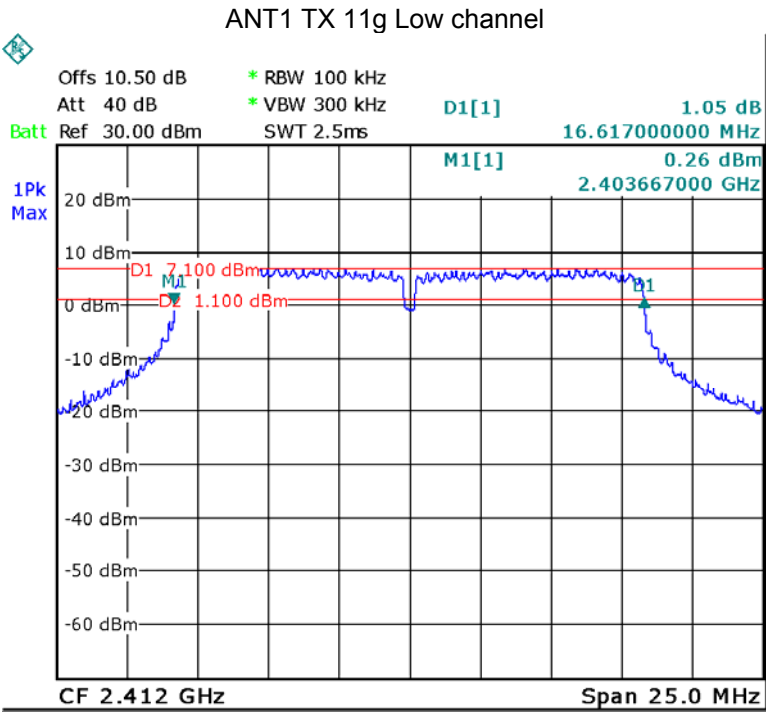
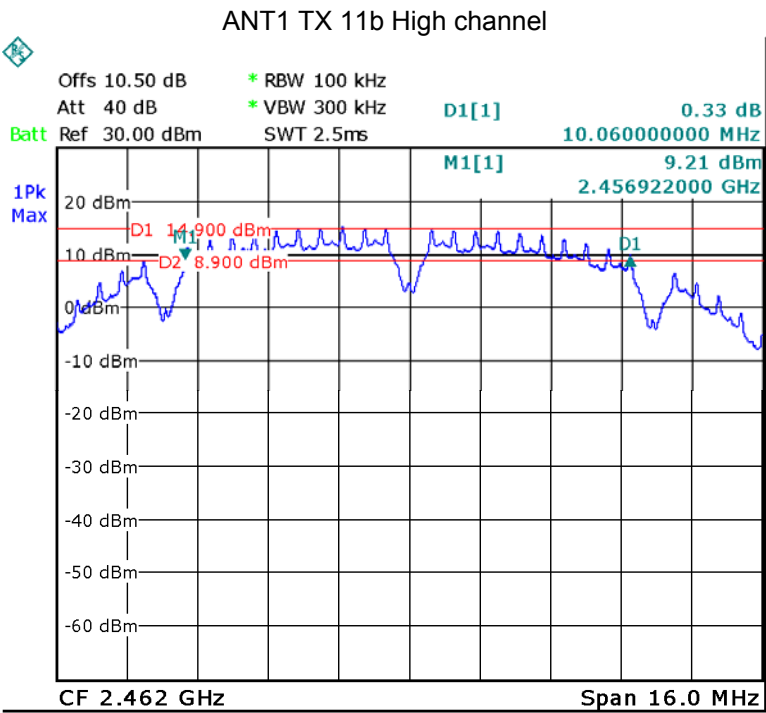
9.1 Test Procedure:

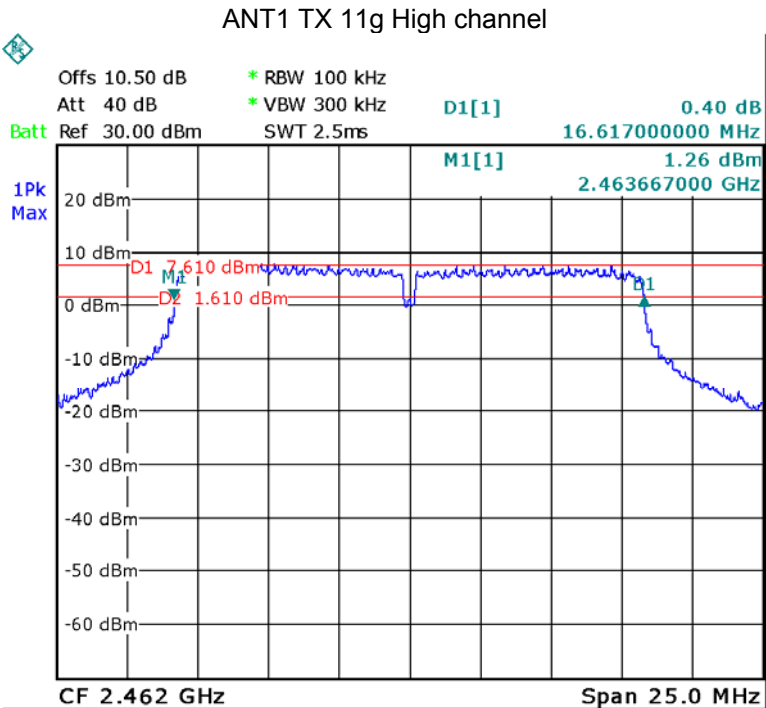
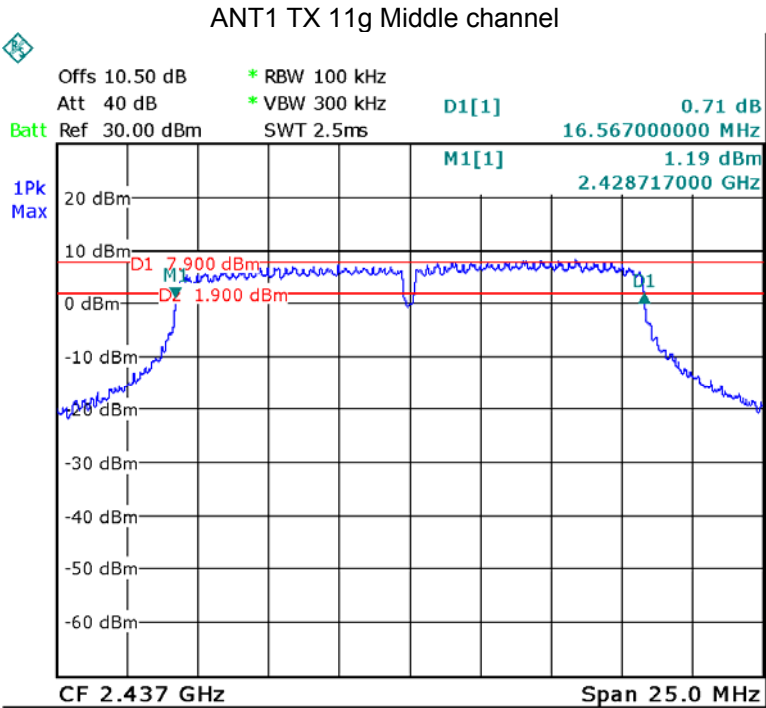
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

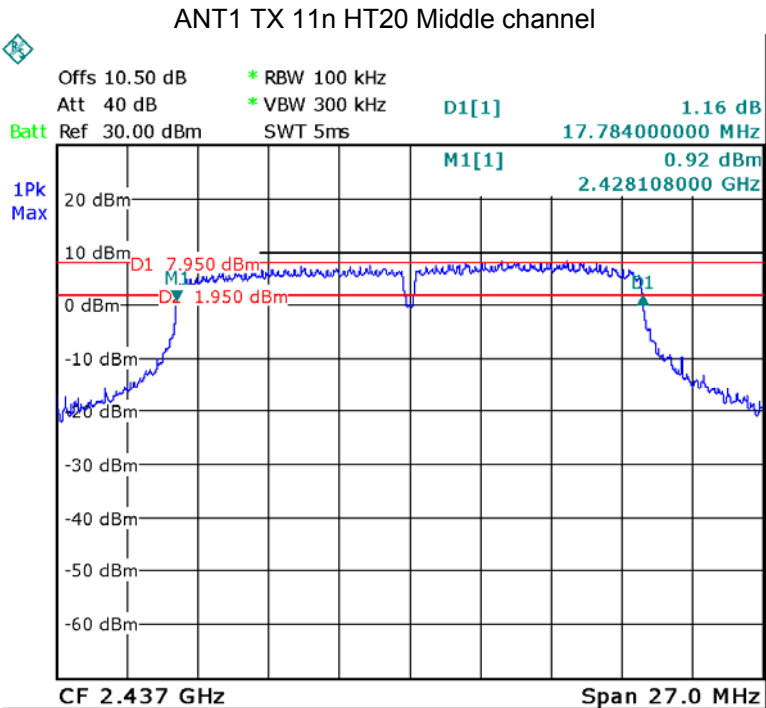
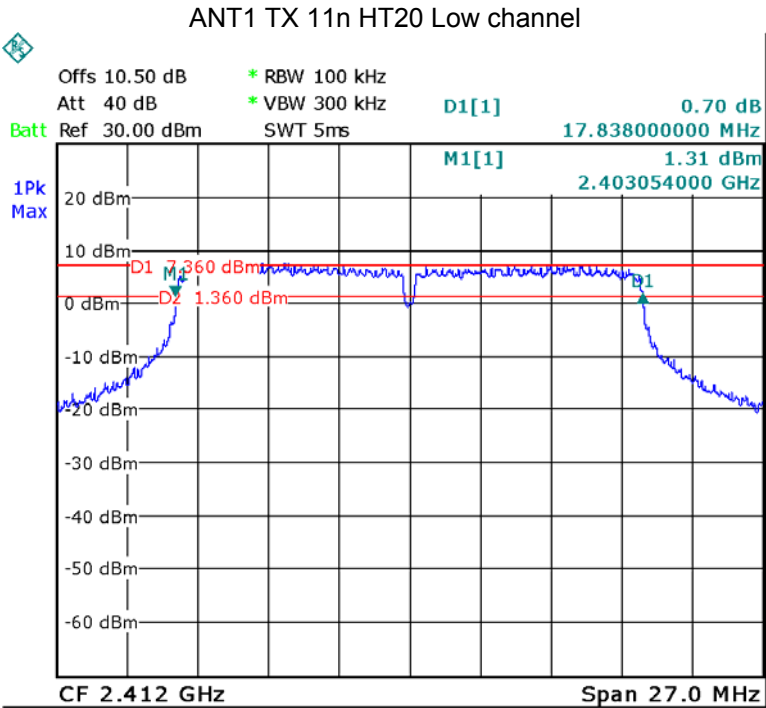
9.2 Test Result:

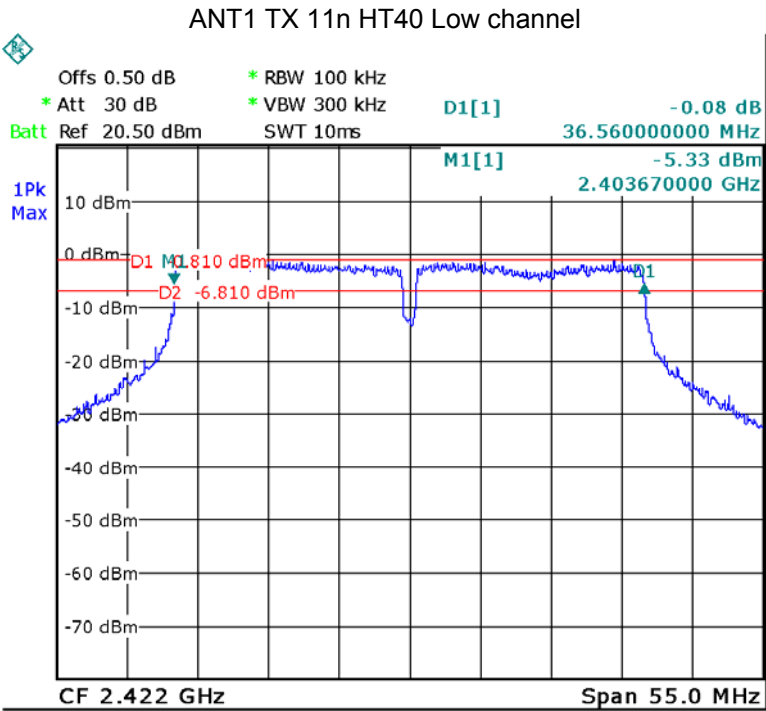
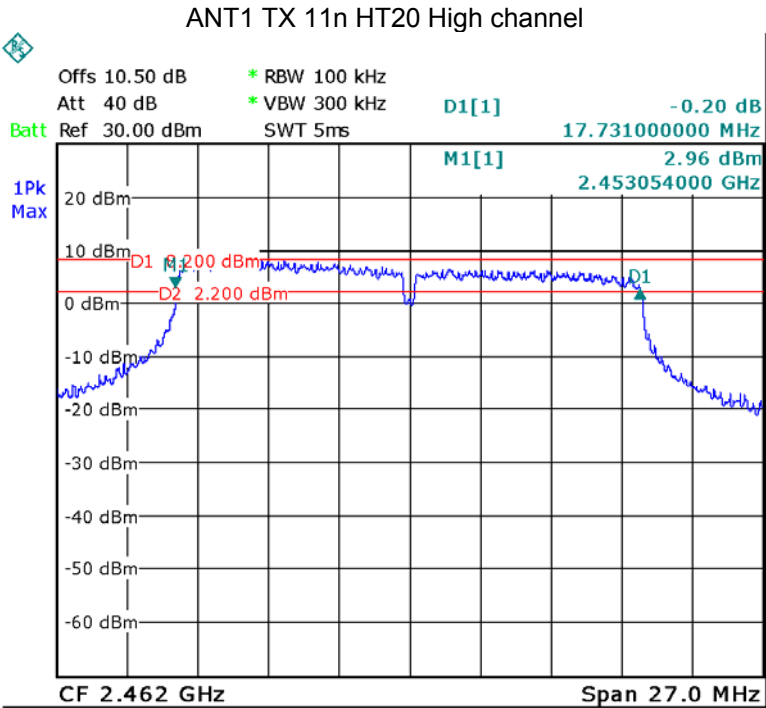
ANT	Operation mode	Bandwidth (MHz)		
		Low	Middle	High
ANT1	11b	10.060	10.060	10.060
	11g	16.617	16.567	16.617
	11n HT20	17.838	17.784	17.731
	11n HT40	36.560	36.670	36.560
ANT2	11b	10.060	10.060	10.060
	11g	16.617	16.617	16.517
	11n HT20	17.784	17.784	17.731
	11n HT40	36.560	36.560	35.790

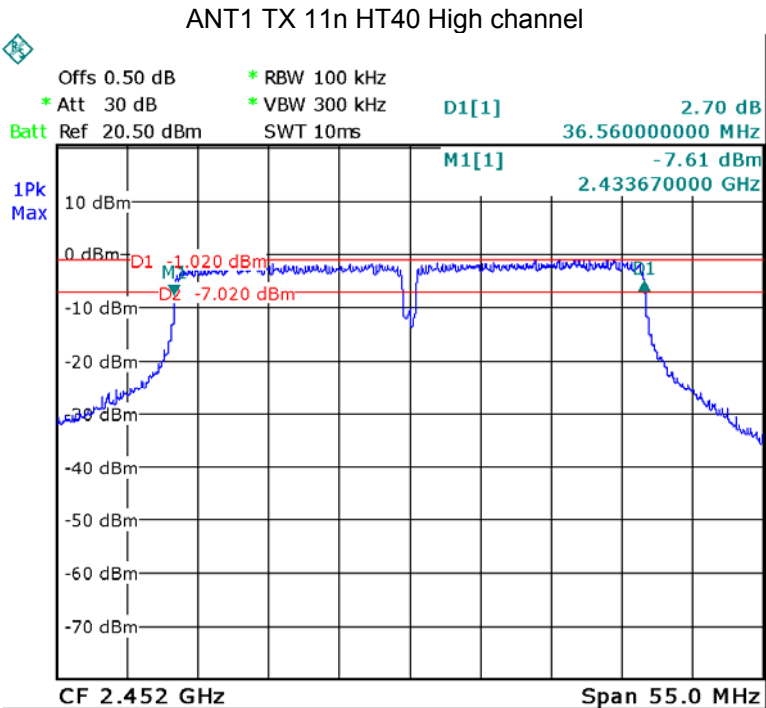
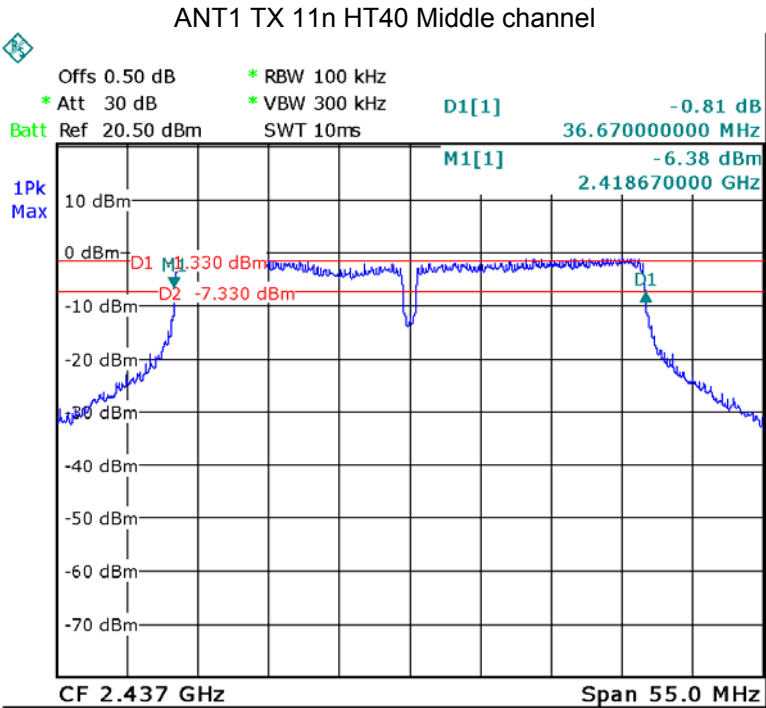


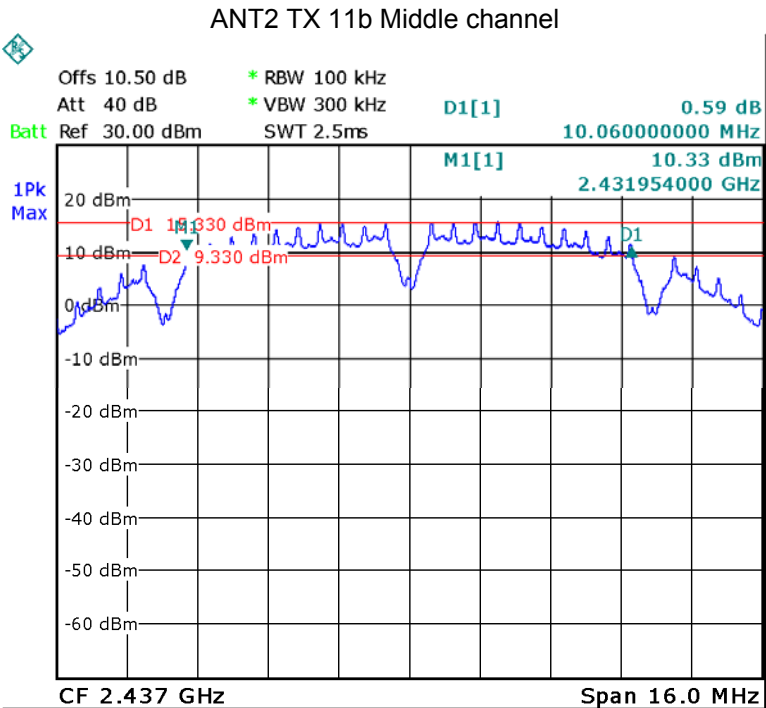
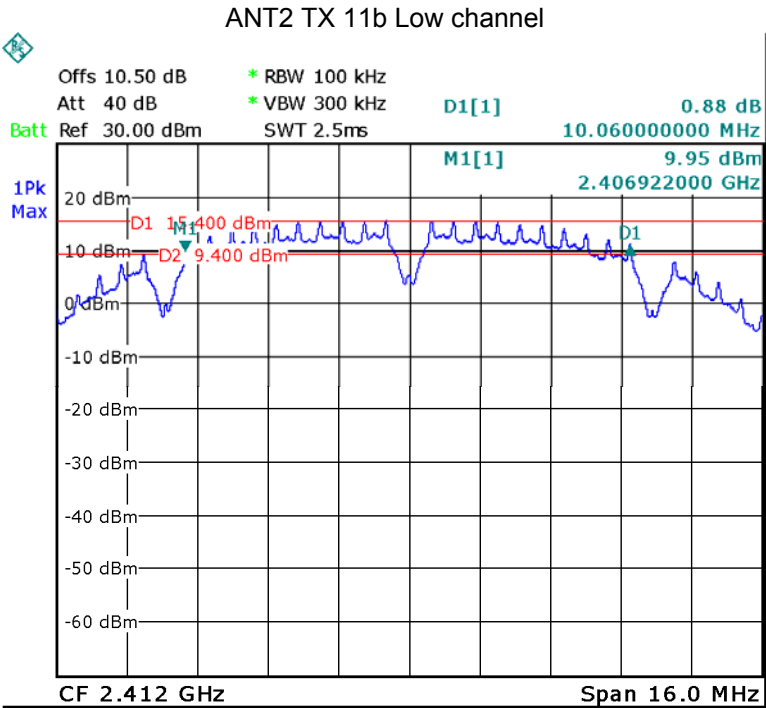


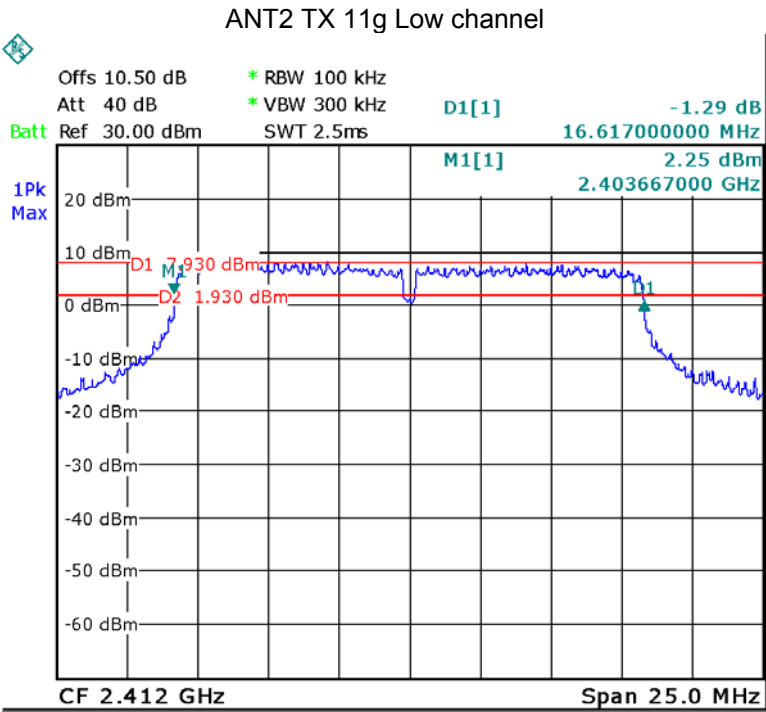
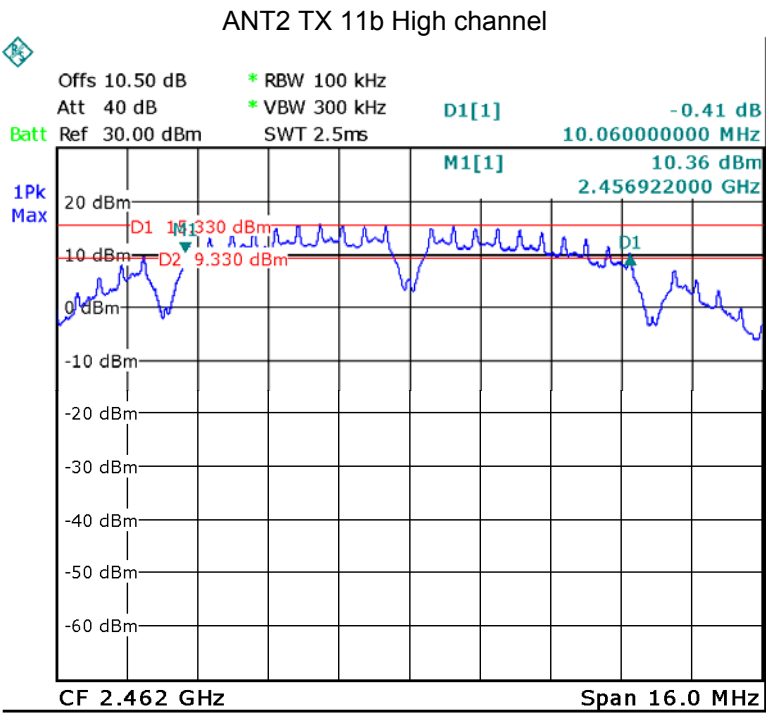


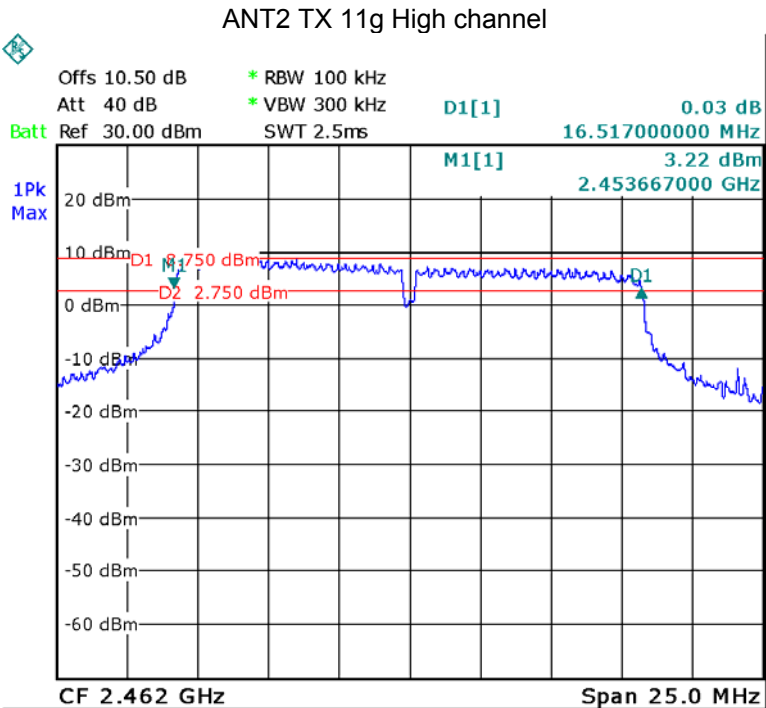
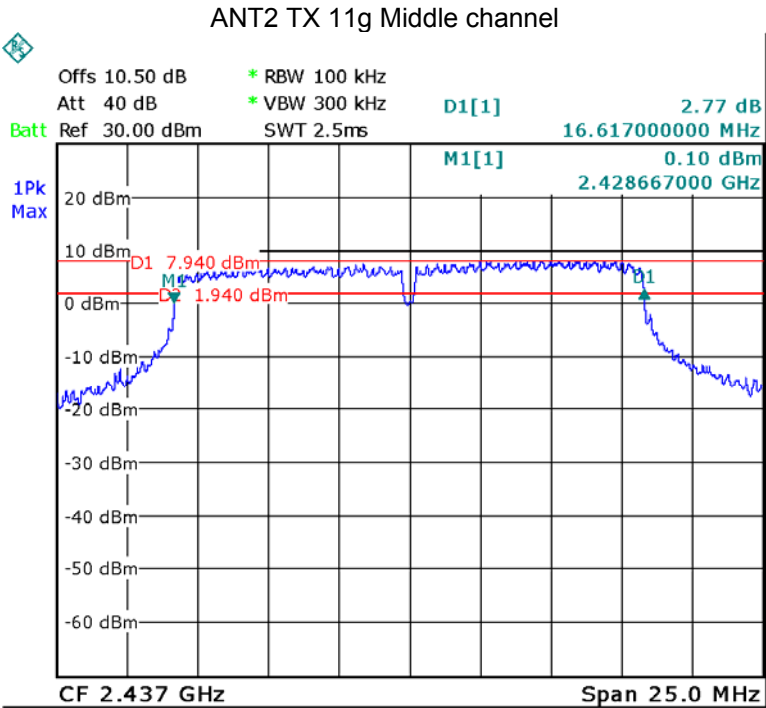


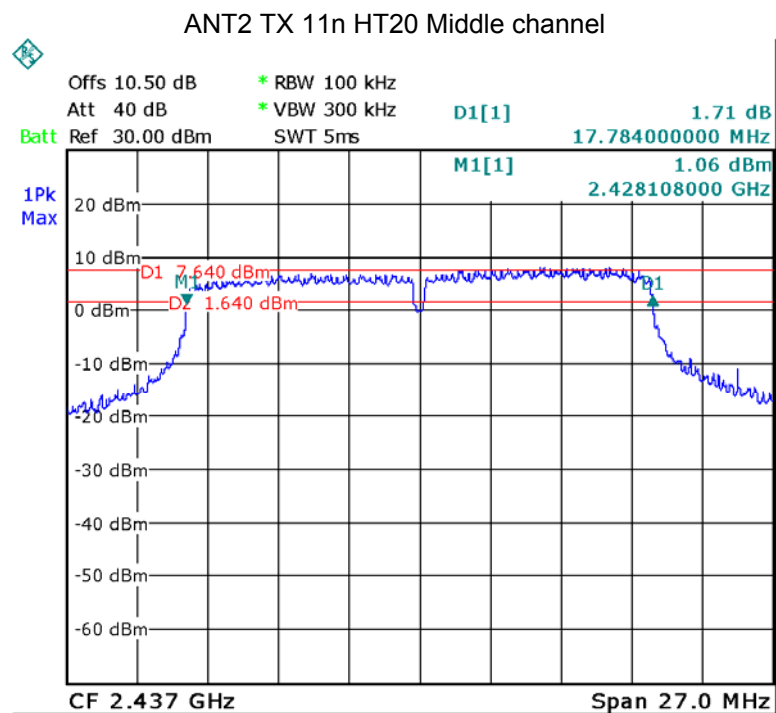
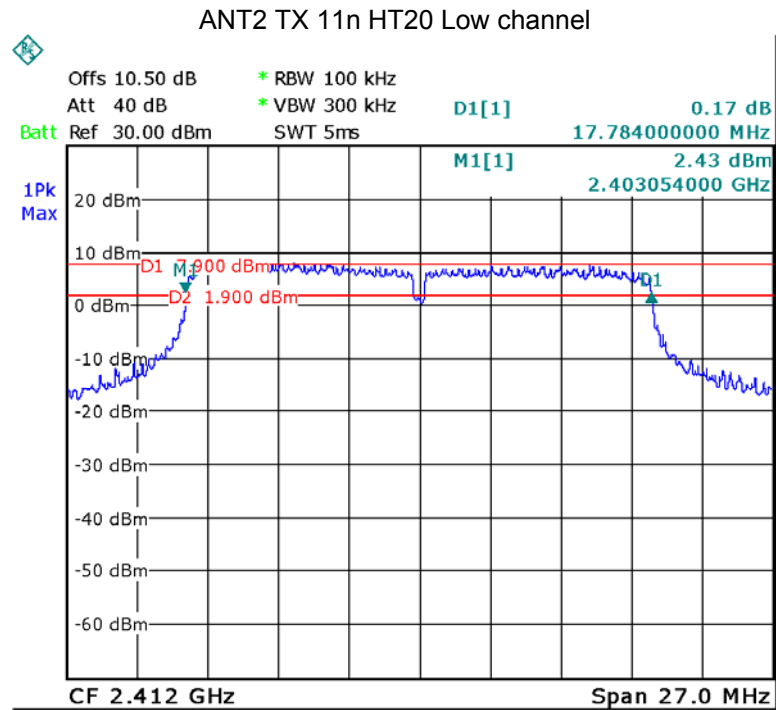


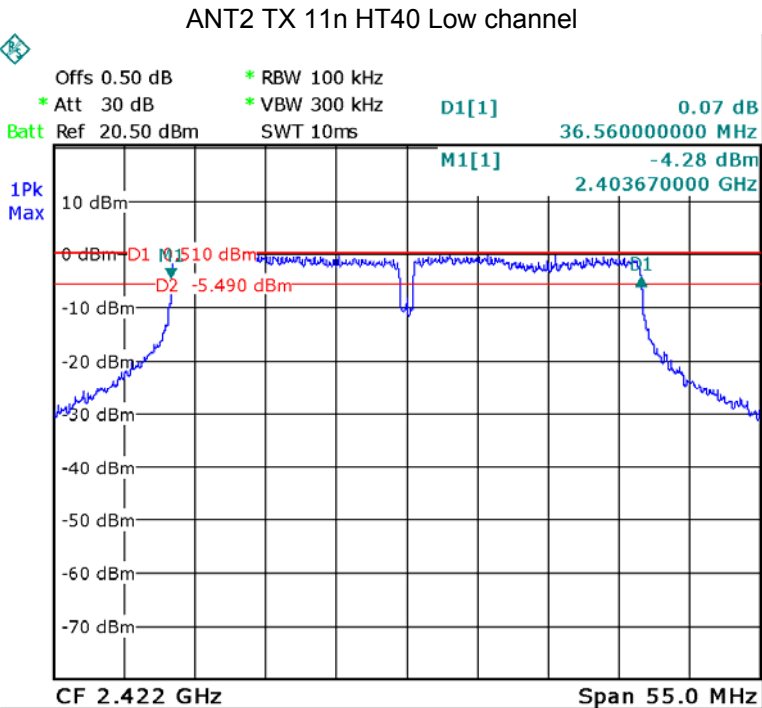
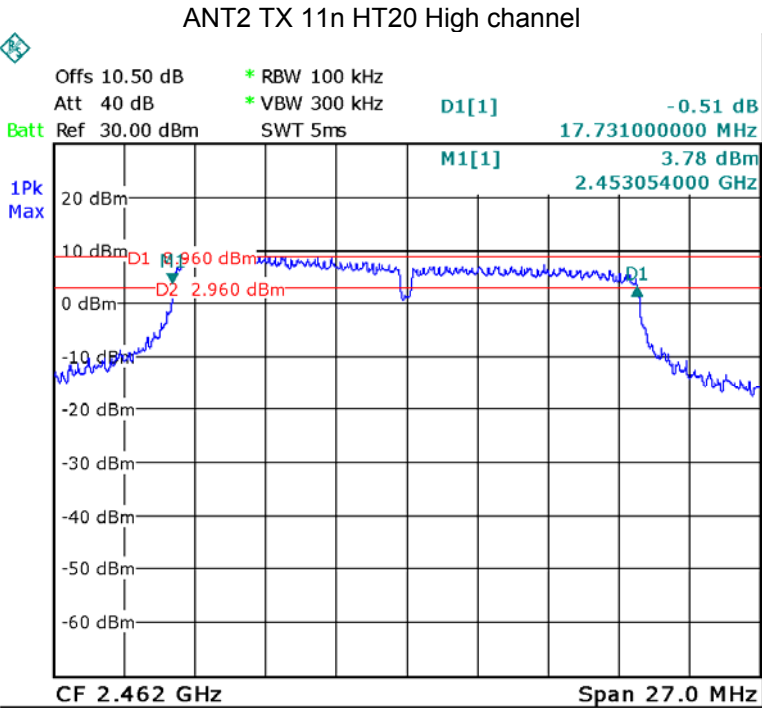


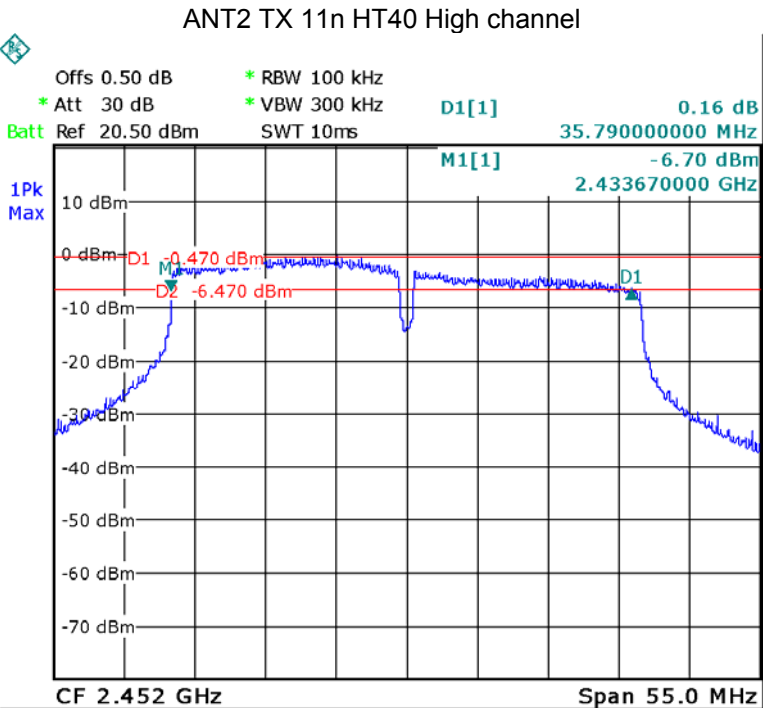
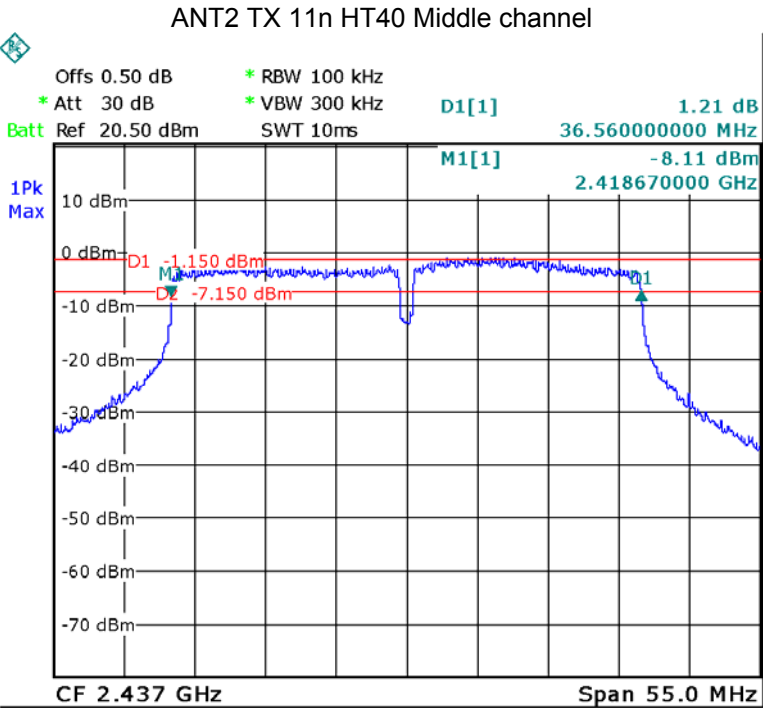












10 Maximum Peak Output Power

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

558074 D01 DTS Meas Guidance v03r03 June 9, 2015

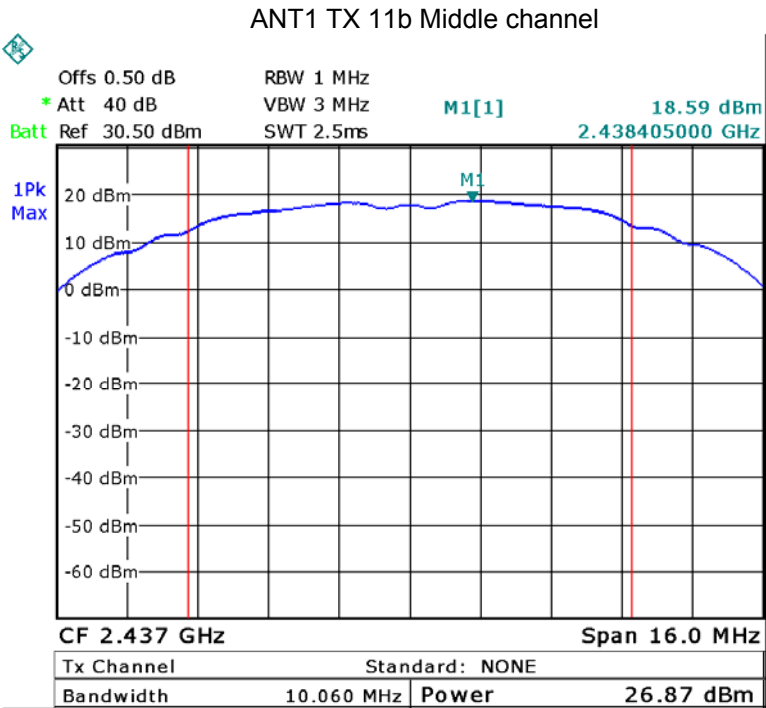
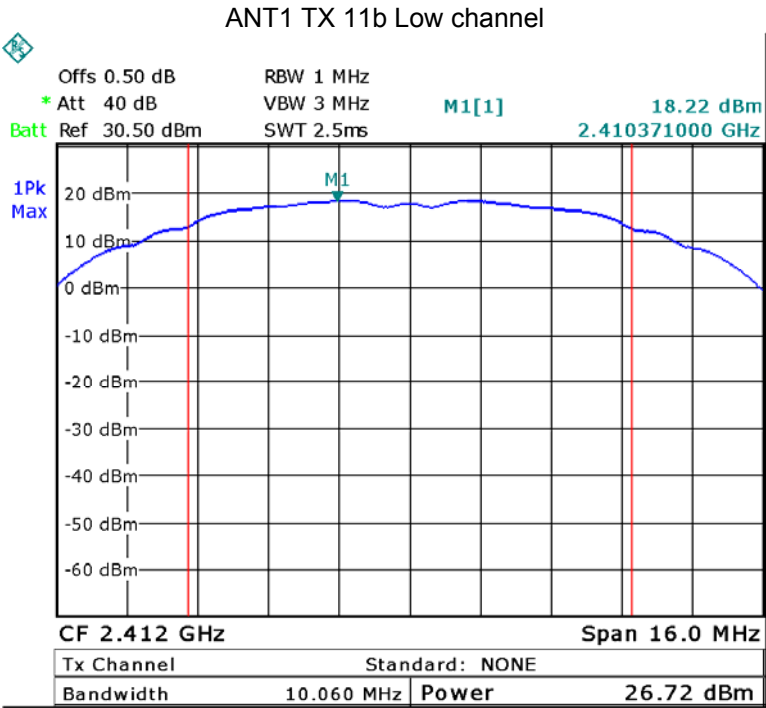
10.1 Test Procedure:

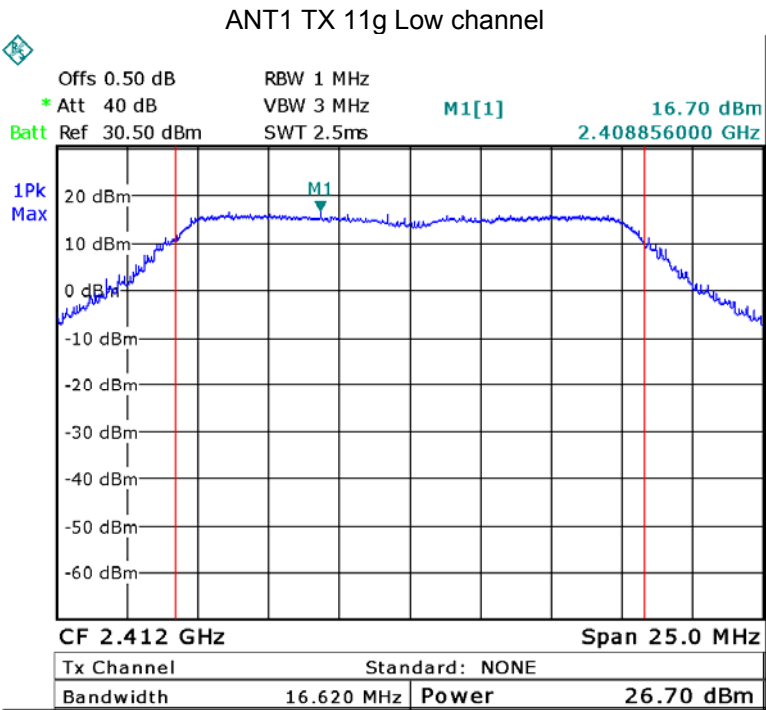
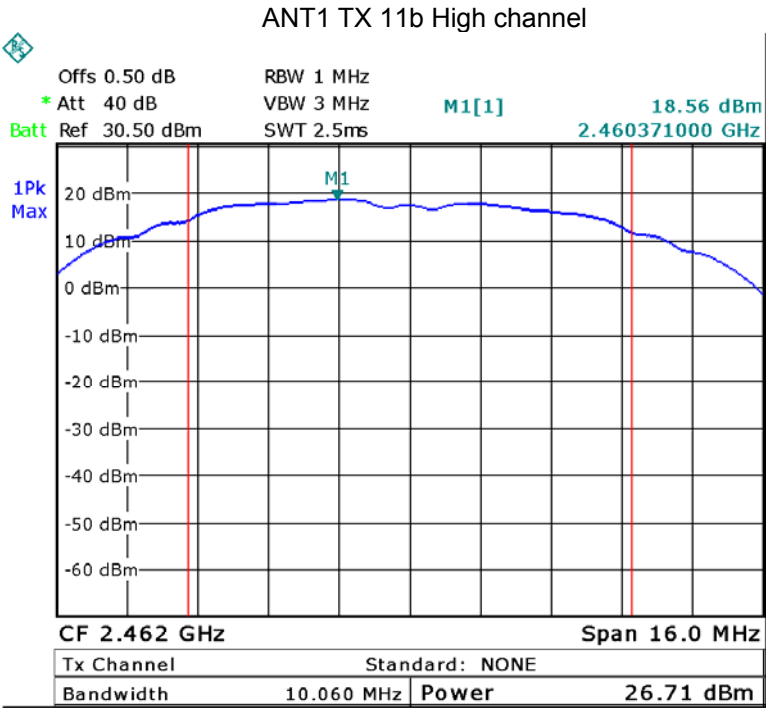
558074 D01 DTS Meas Guidance v03r03 June 9, 2015 section 9.1.2

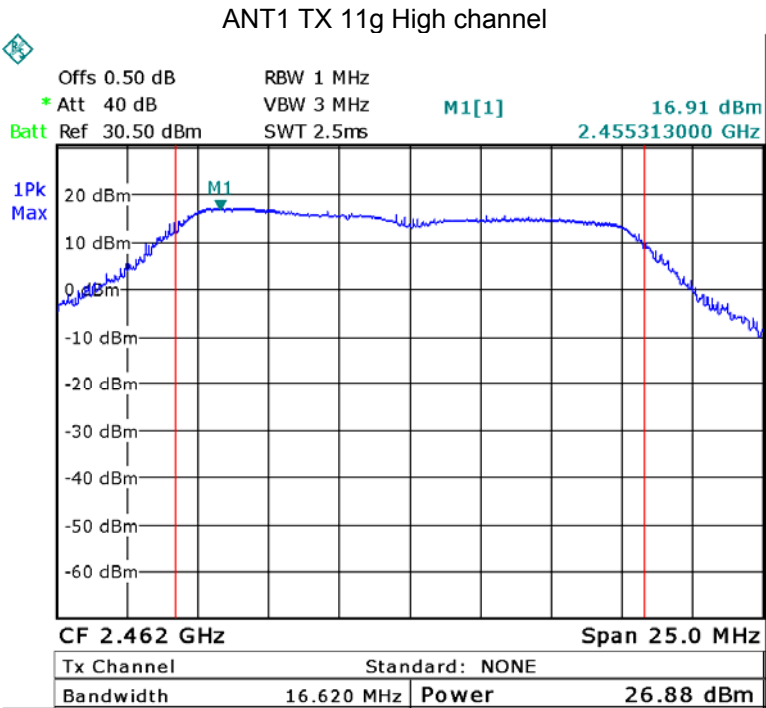
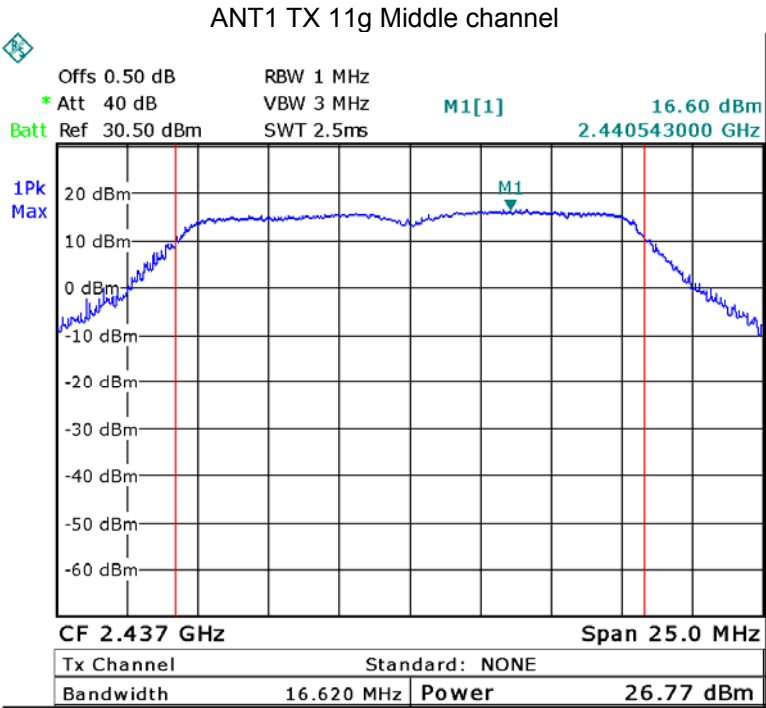
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

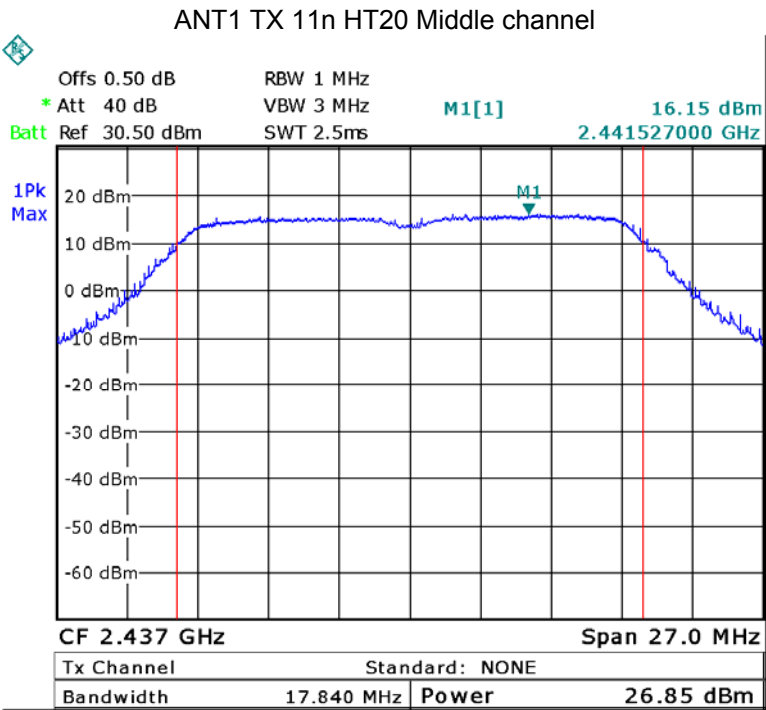
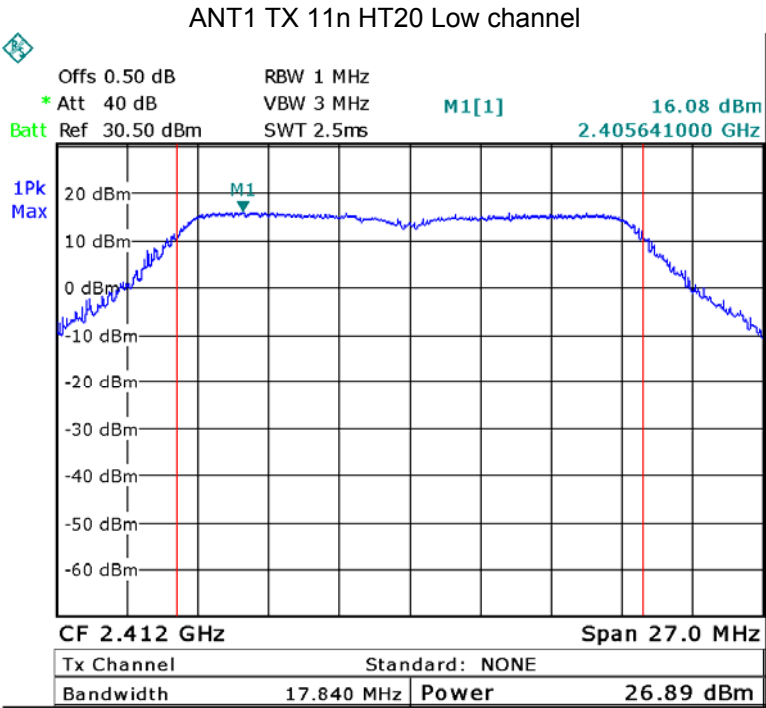
10.2 Test Result:

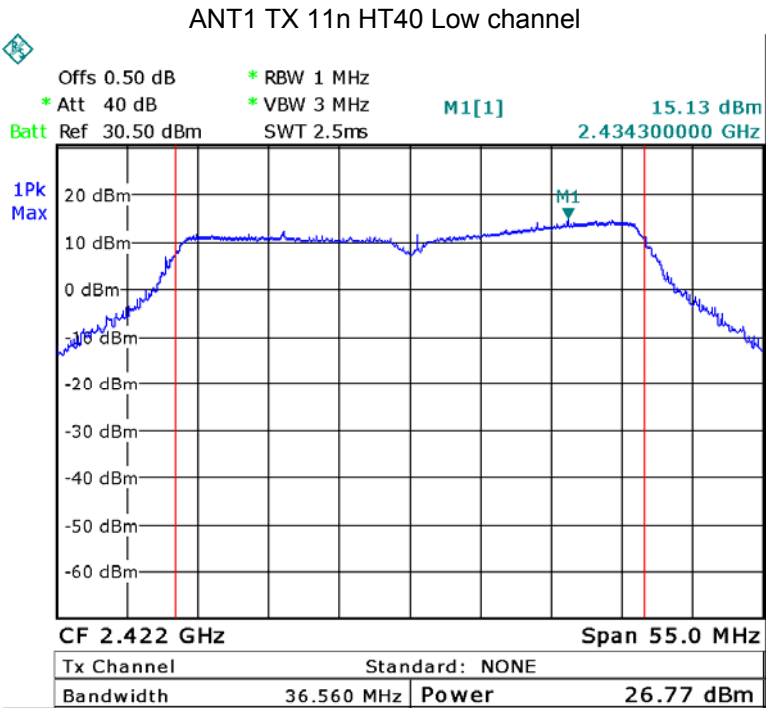
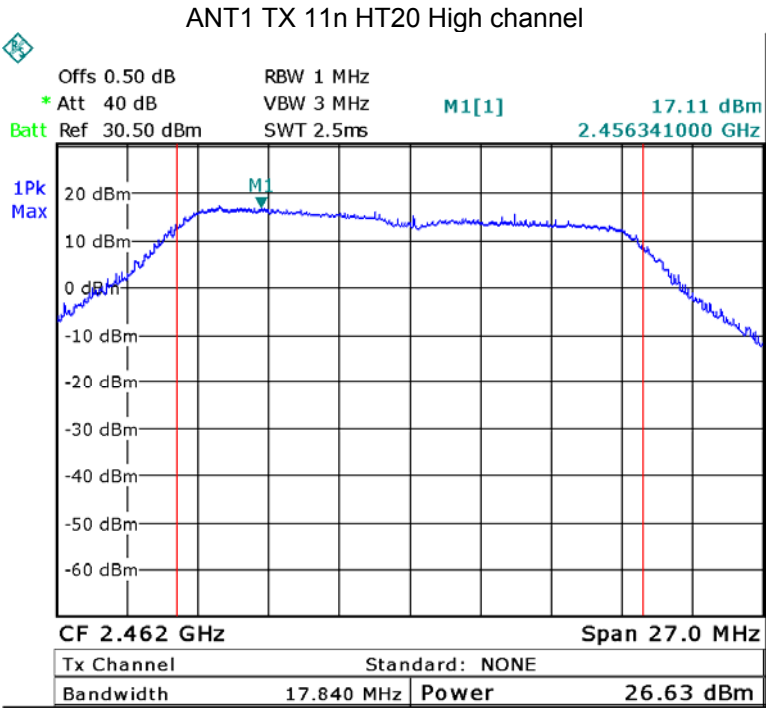
Operation mode	ANT	Maximum Peak Output Power (dBm)		
		Low	Middle	High
11b	ANT1	26.72	26.87	26.71
	ANT2	26.68	26.71	26.89
	ANT1+ANT2	29.71	29.80	29.81
11g	ANT1	26.70	26.77	26.88
	ANT2	26.80	26.52	26.64
	ANT1+ANT2	29.76	29.66	29.77
11n HT20	ANT1	26.89	26.85	26.63
	ANT2	26.88	26.86	26.69
	ANT1+ANT2	29.90	29.87	29.67
11n HT40	ANT1	26.77	26.80	26.89
	ANT2	26.66	26.84	26.76
	ANT1+ANT2	29.73	29.83	29.84
Limit				
1W/30dBm				

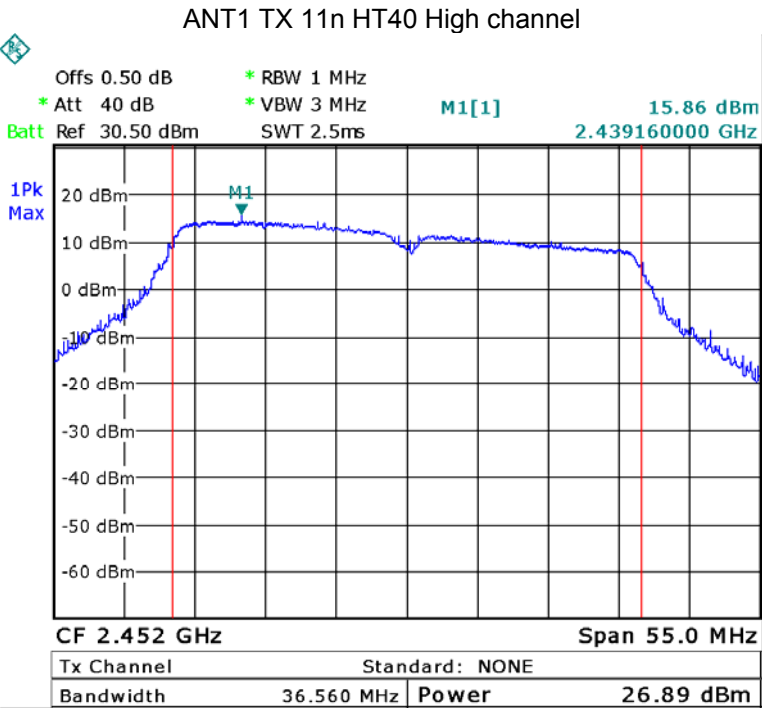
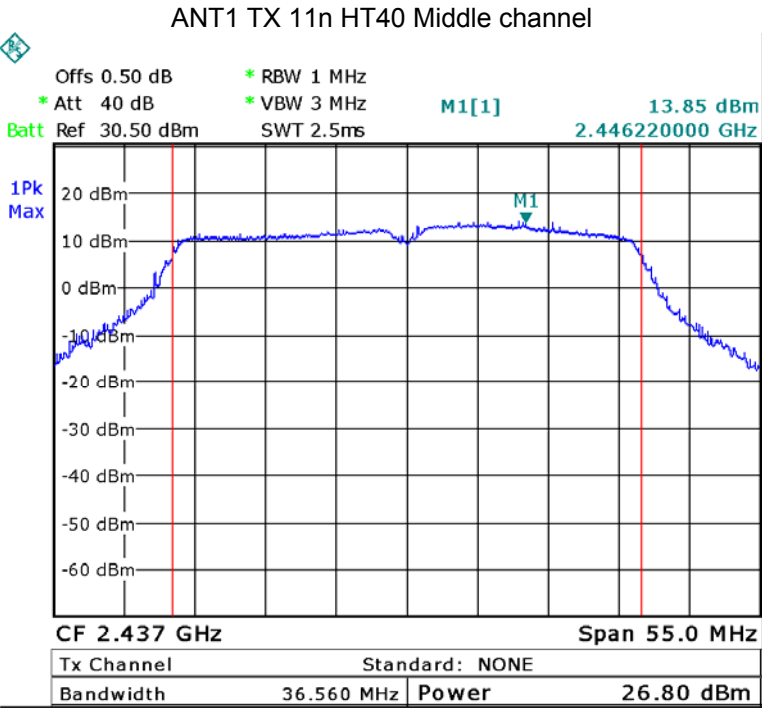


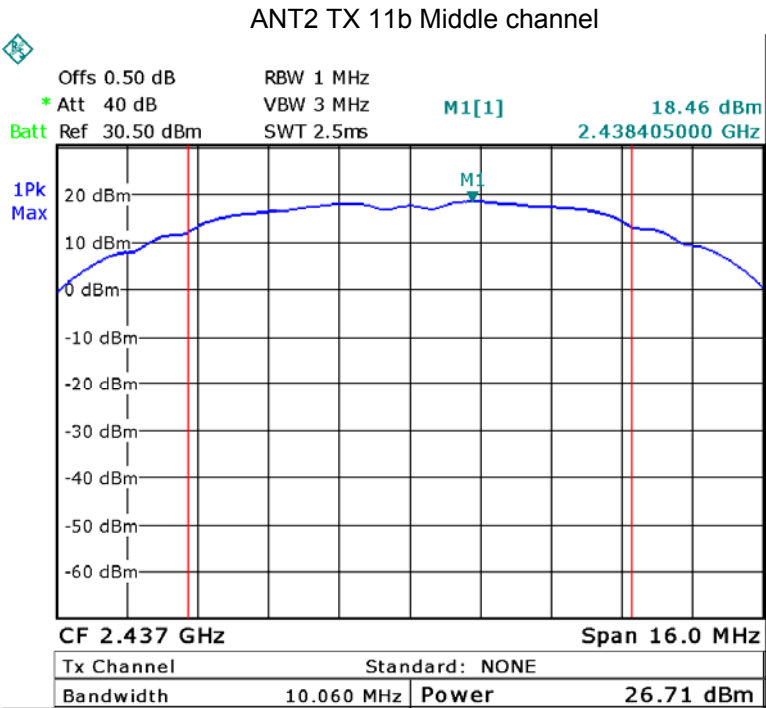
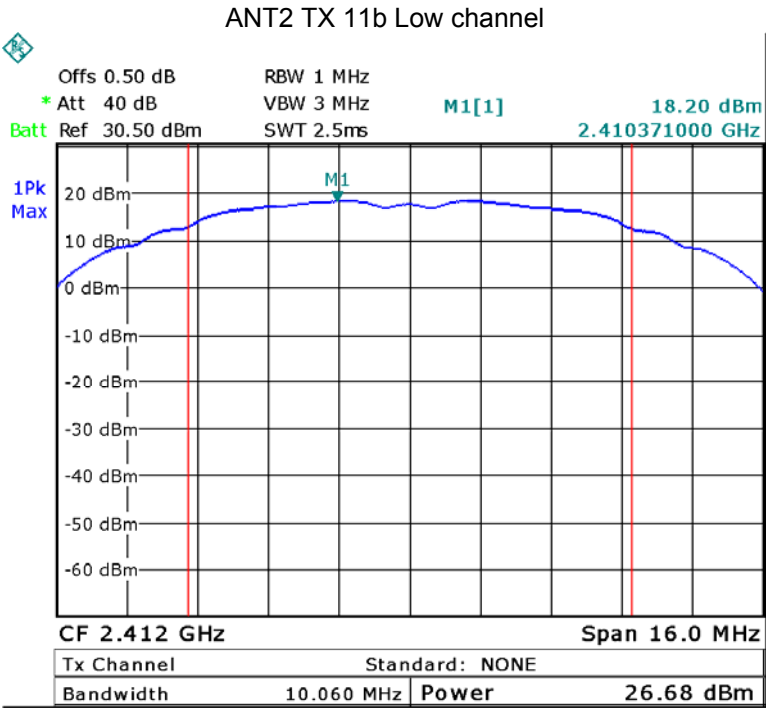


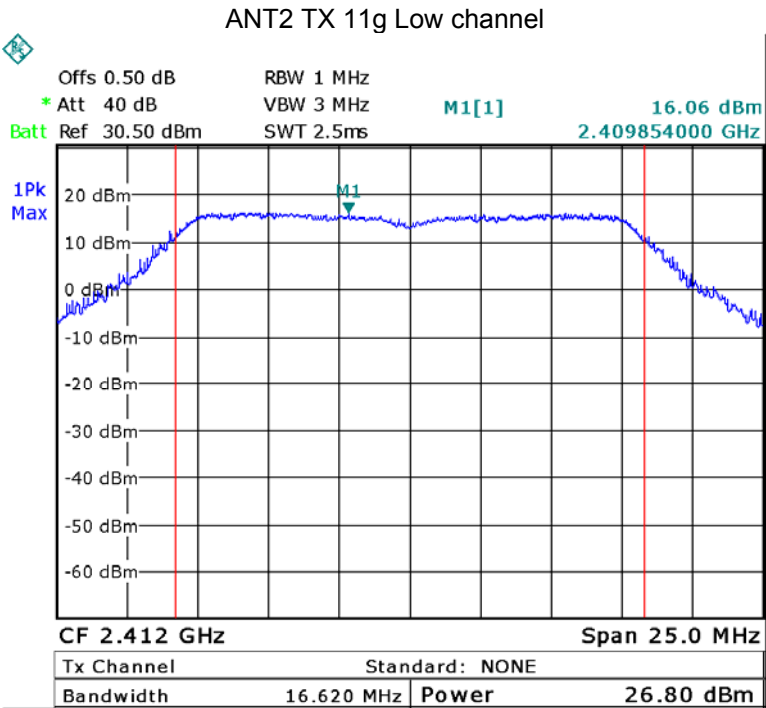
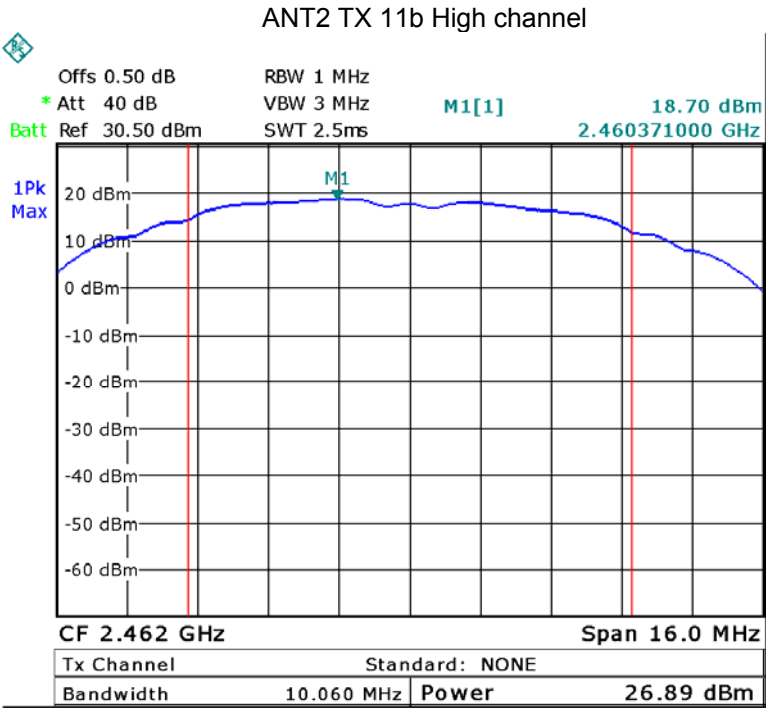


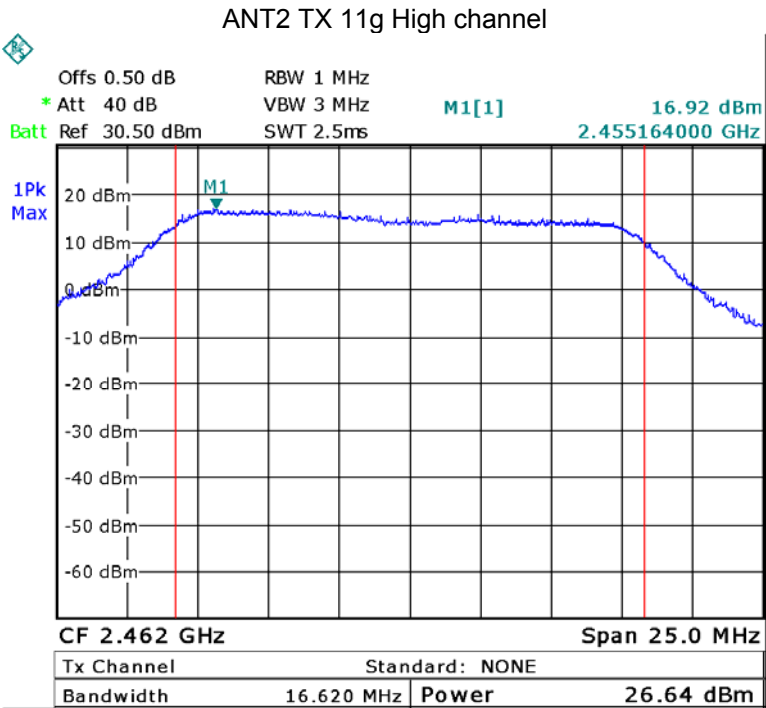
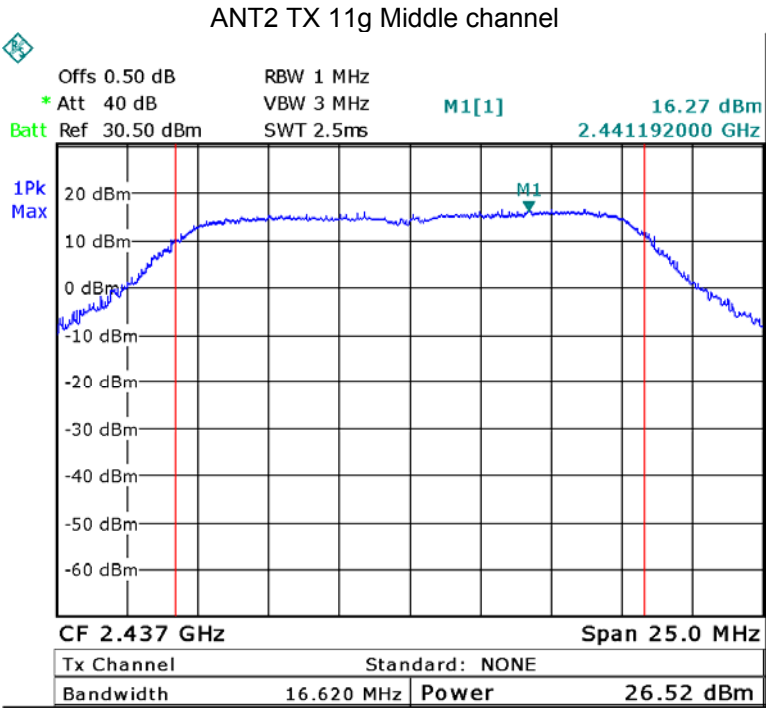


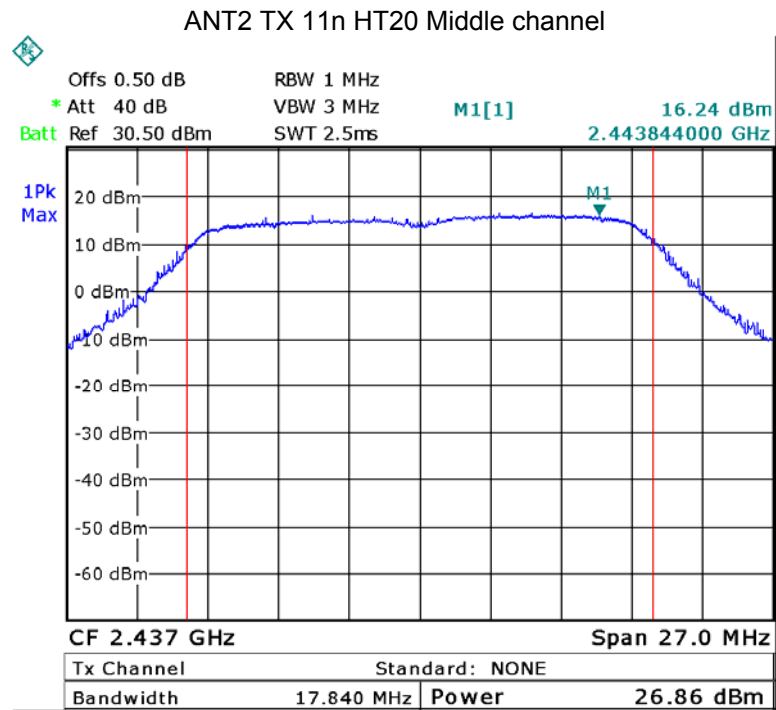
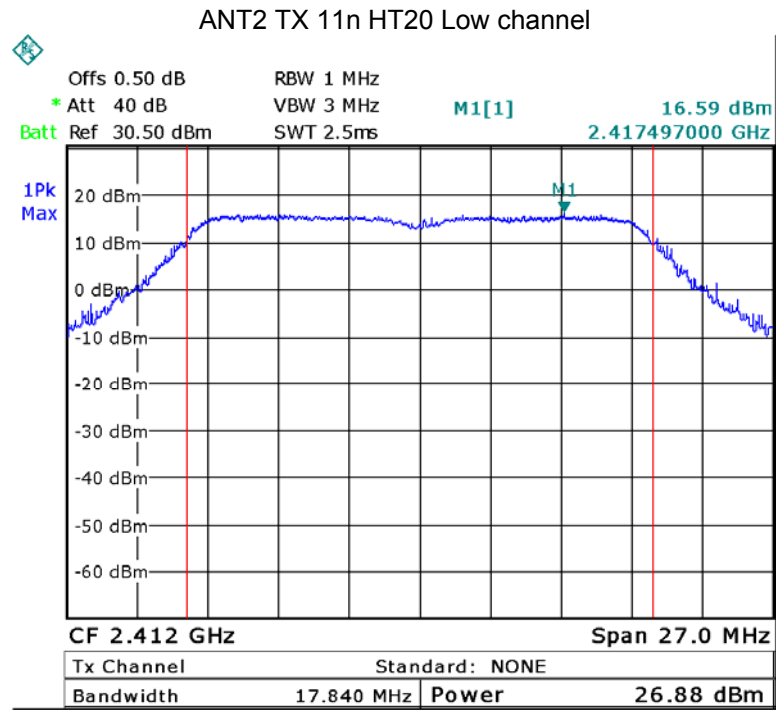


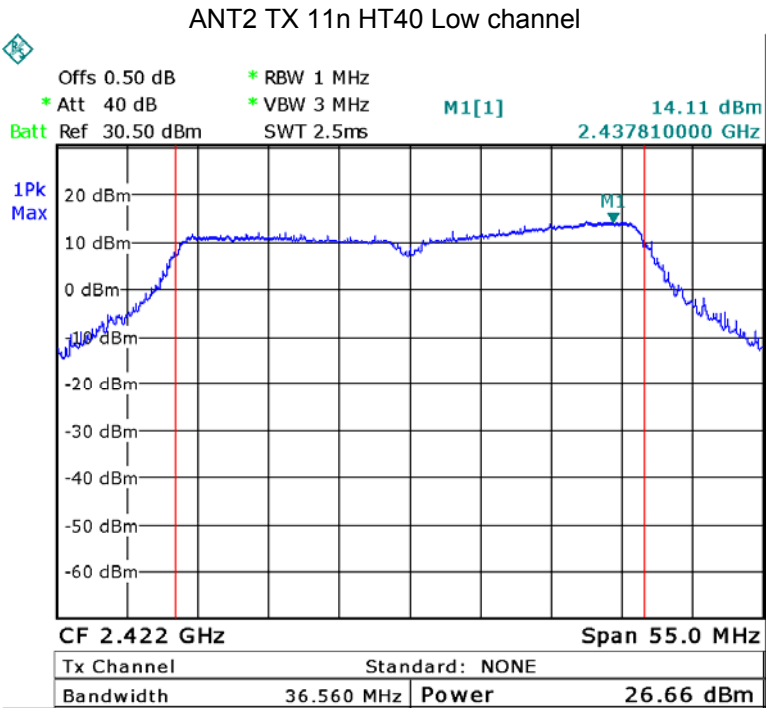
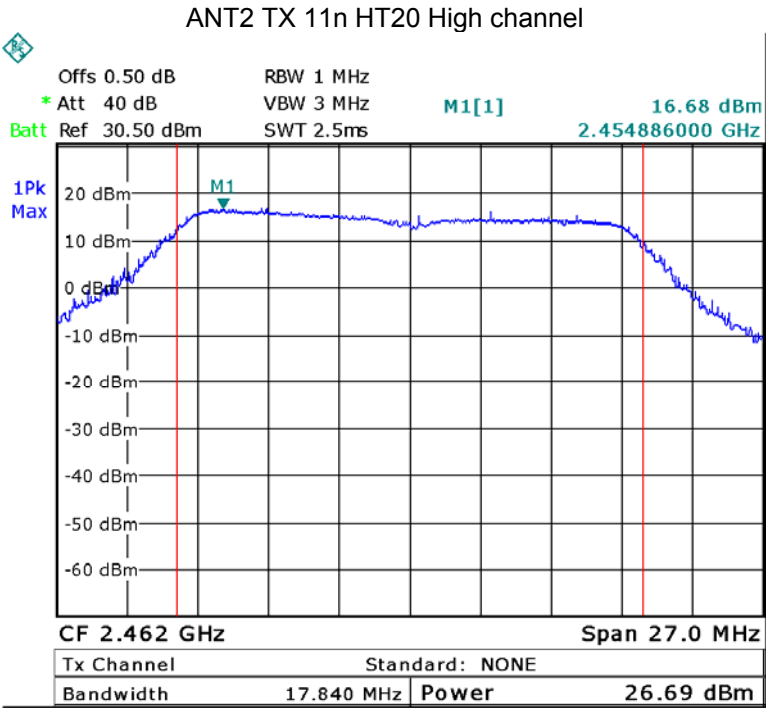


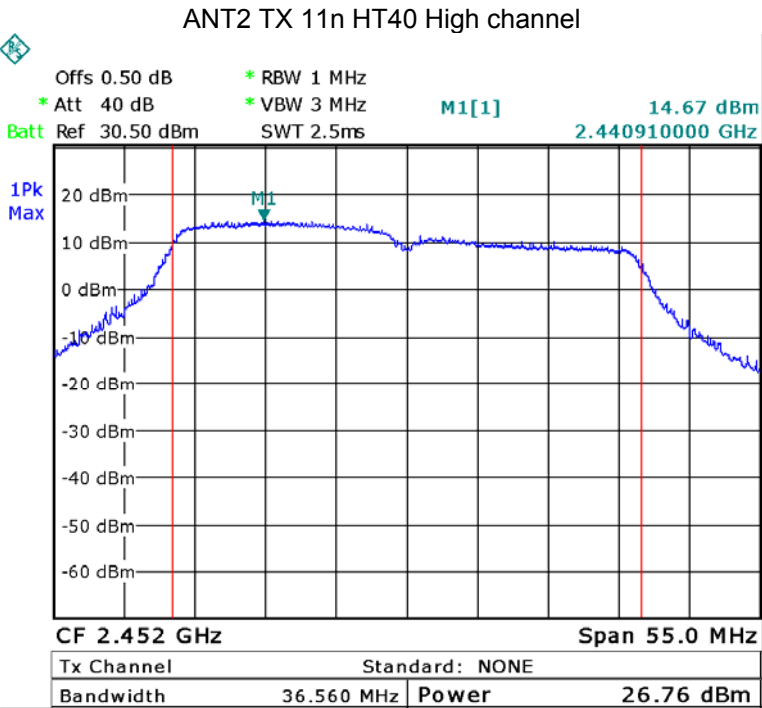
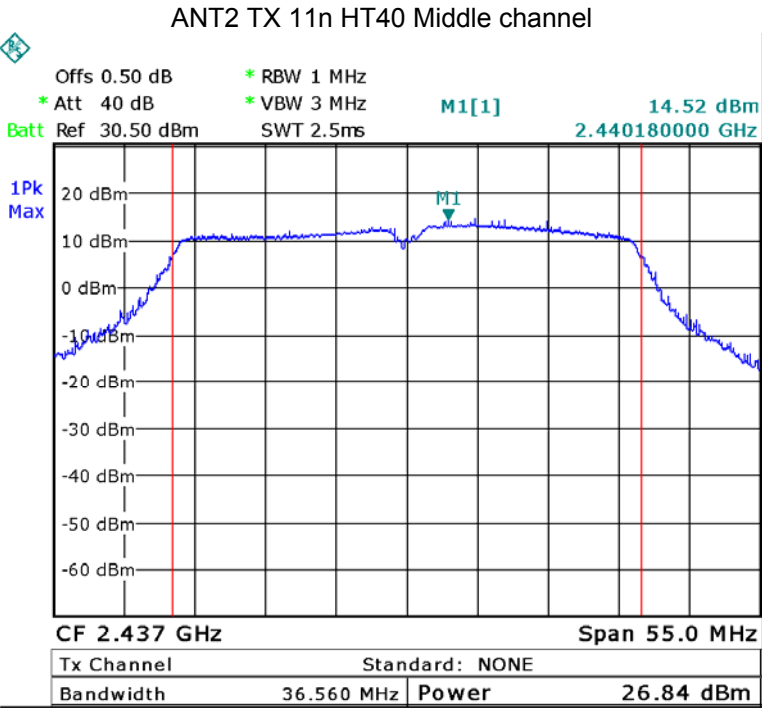












11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v03r03 June 9, 2015

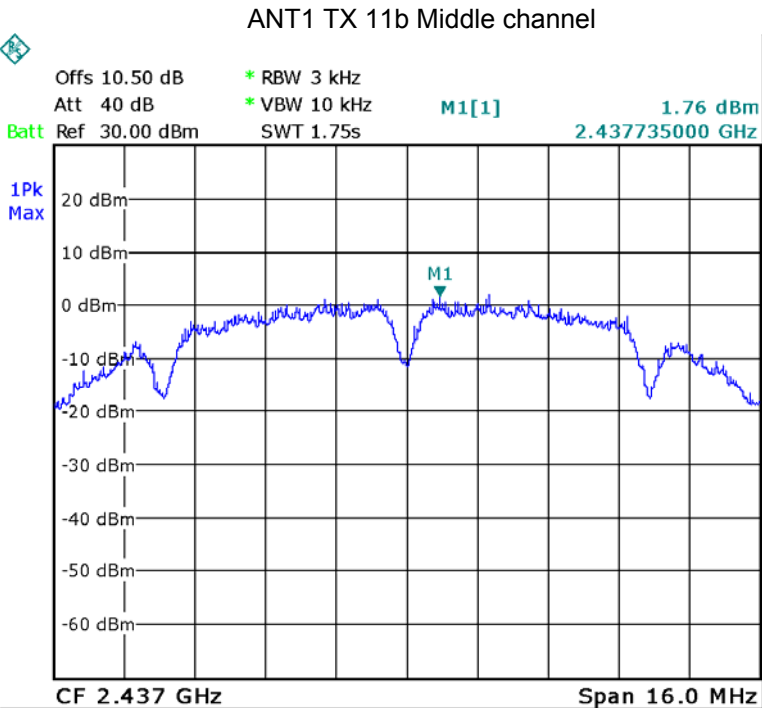
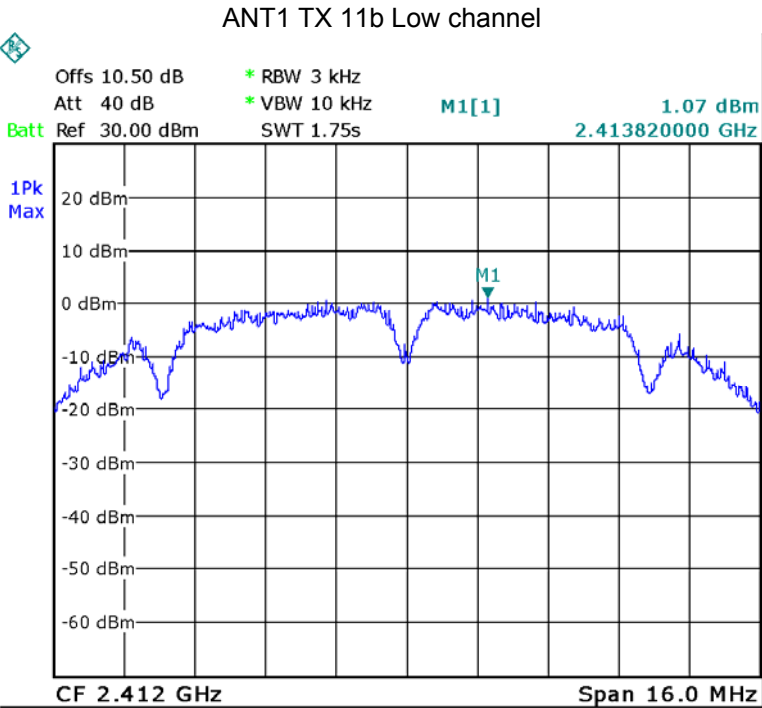
11.1 Test Procedure:

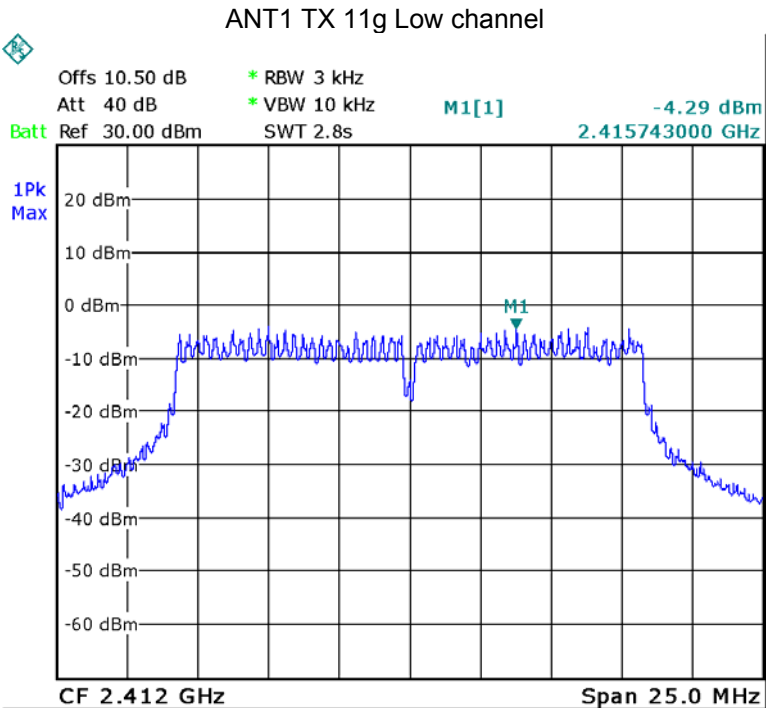
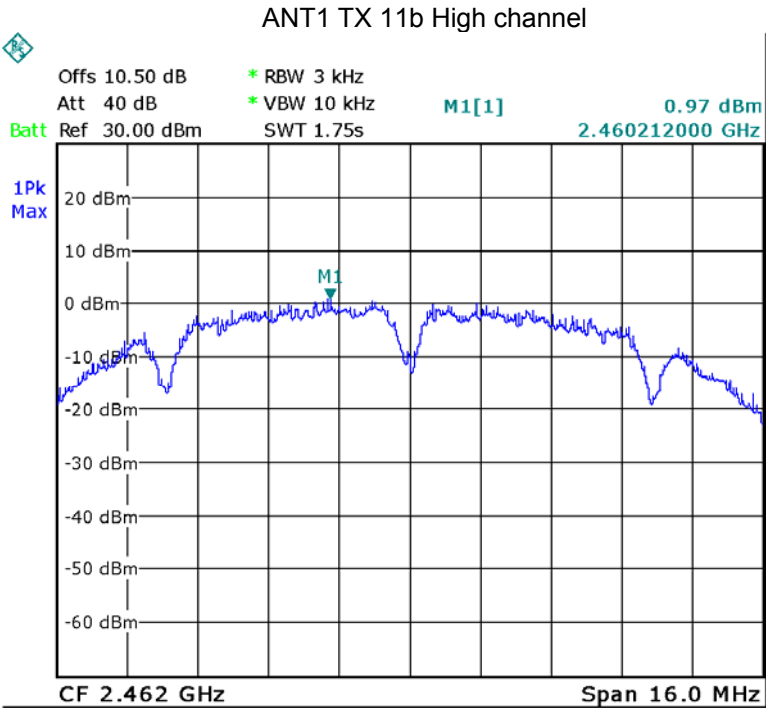
558074 D01 DTS Meas Guidance v03r03 June 9, 2015 section 10.2

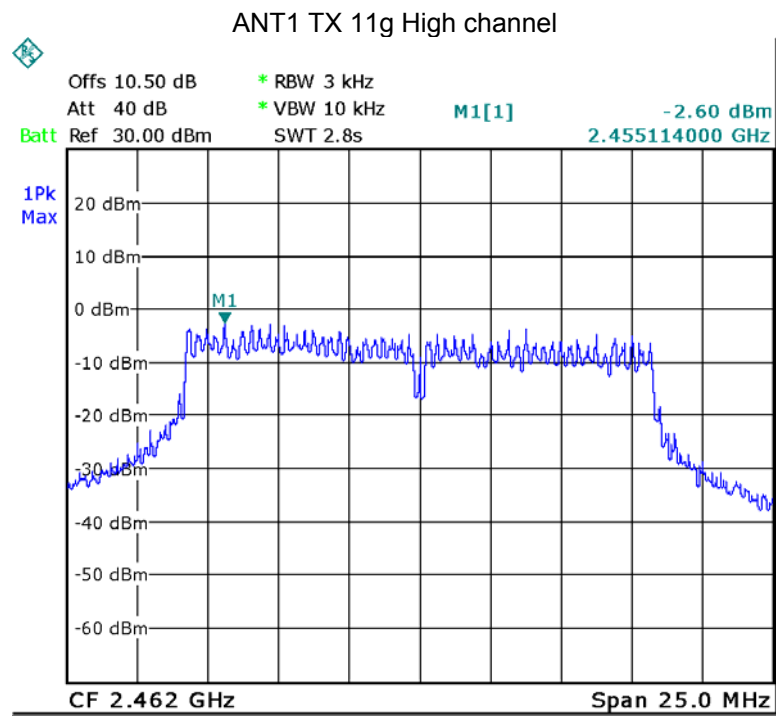
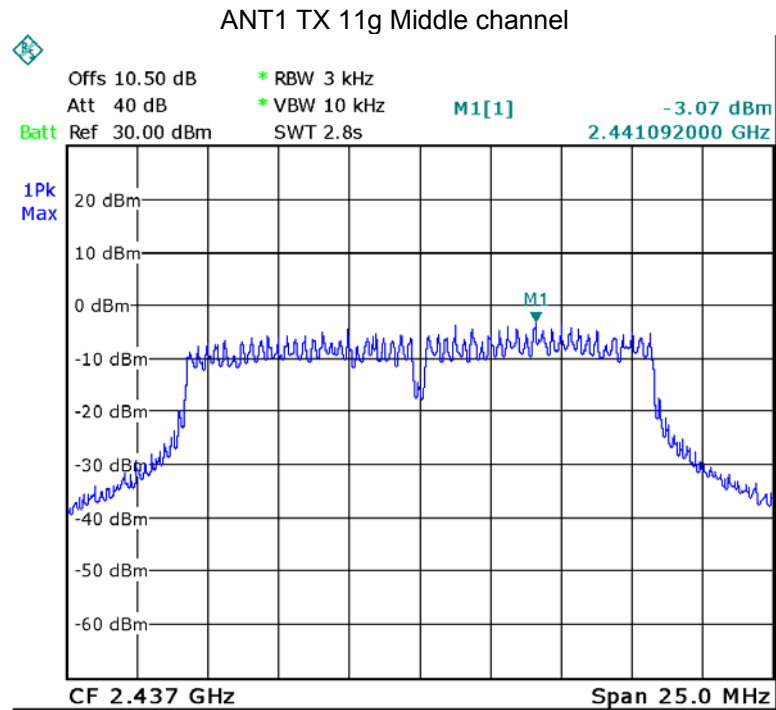
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

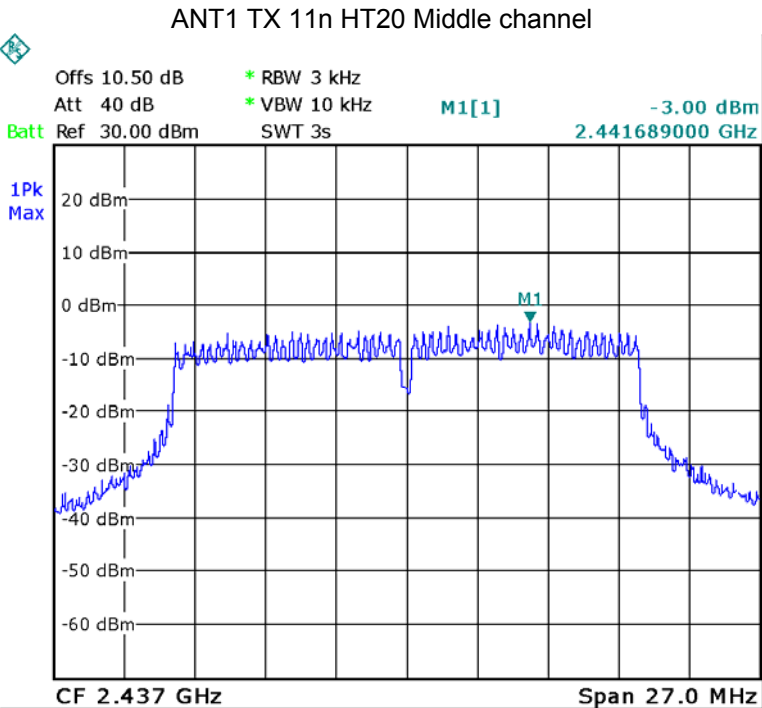
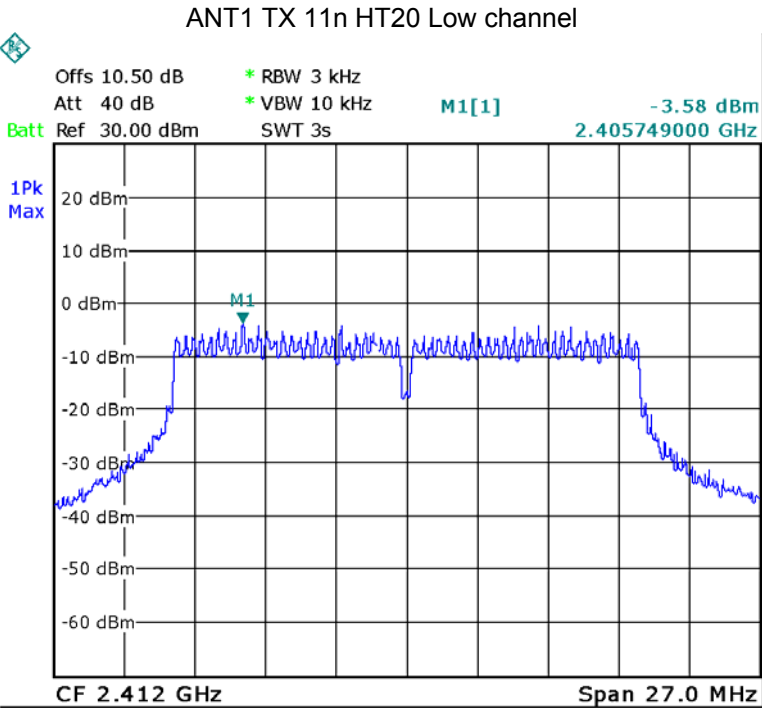
11.2 Test Result:

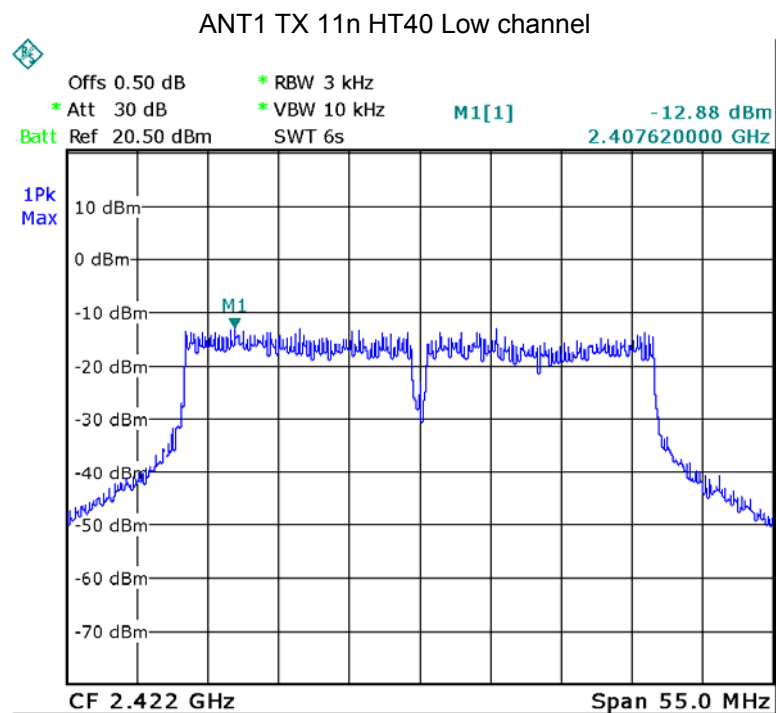
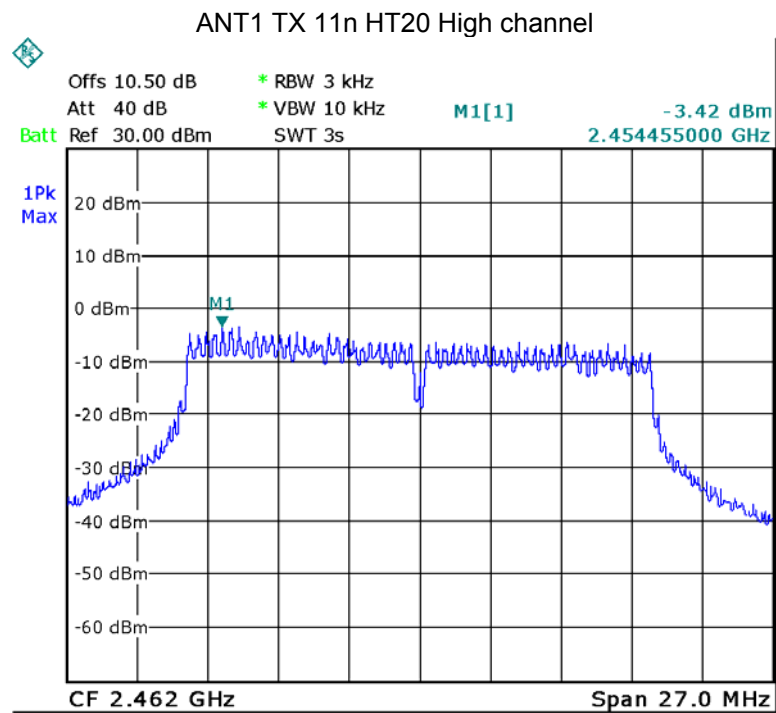
Operation mode	ANT	Maximum Peak Output Power (dBm/3kHz)		
		Low	Middle	High
11b	ANT1	1.07	1.76	0.97
	ANT2	2.15	0.79	0.97
11g	ANT1	-4.29	-3.07	-2.60
	ANT2	-3.28	-4.31	-3.48
11n HT20	ANT1	-3.58	-3.00	-3.42
	ANT2	-4.21	-4.75	-3.93
	ANT1+ANT2	-14.40	-15.36	-14.06
11n HT40	ANT1	-12.88	-13.34	-12.91
	ANT2	-11.16	-12.86	-12.97
	ANT1+ANT2	-8.93	-10.08	-9.93
Limit				
8dBm/3kHz				

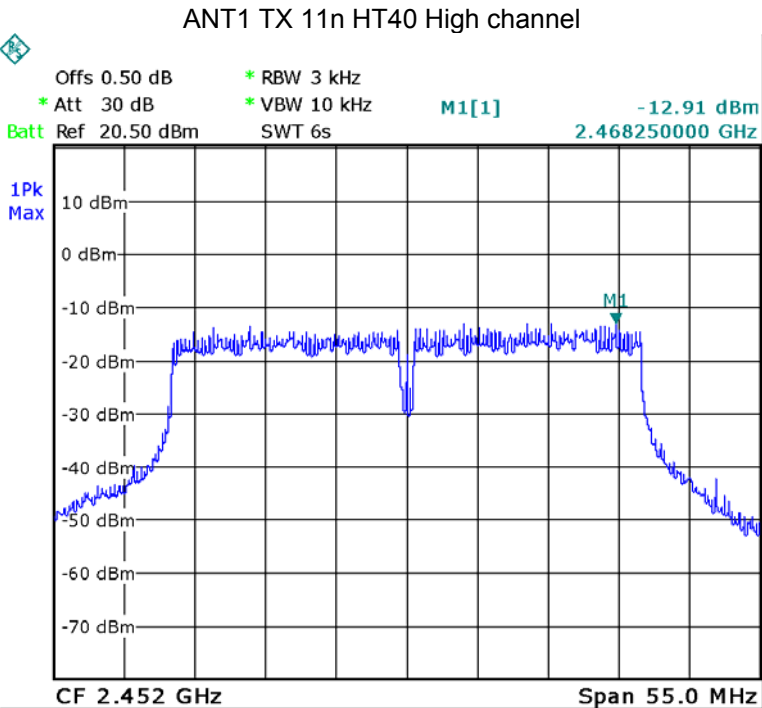
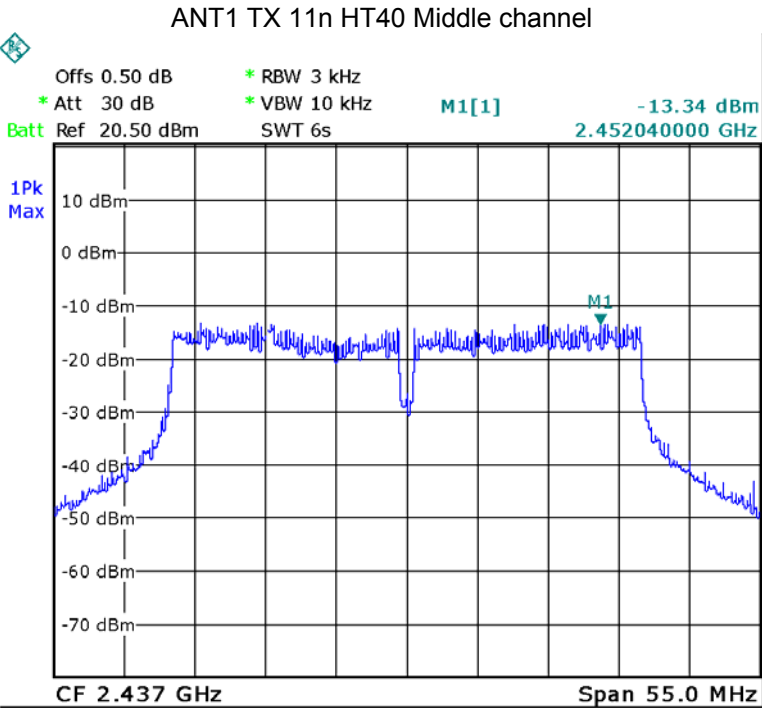


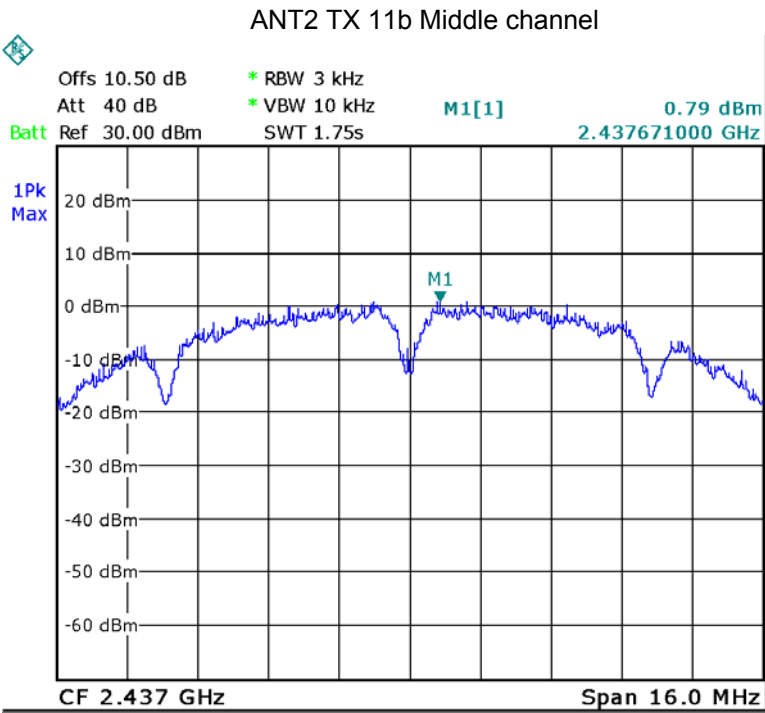
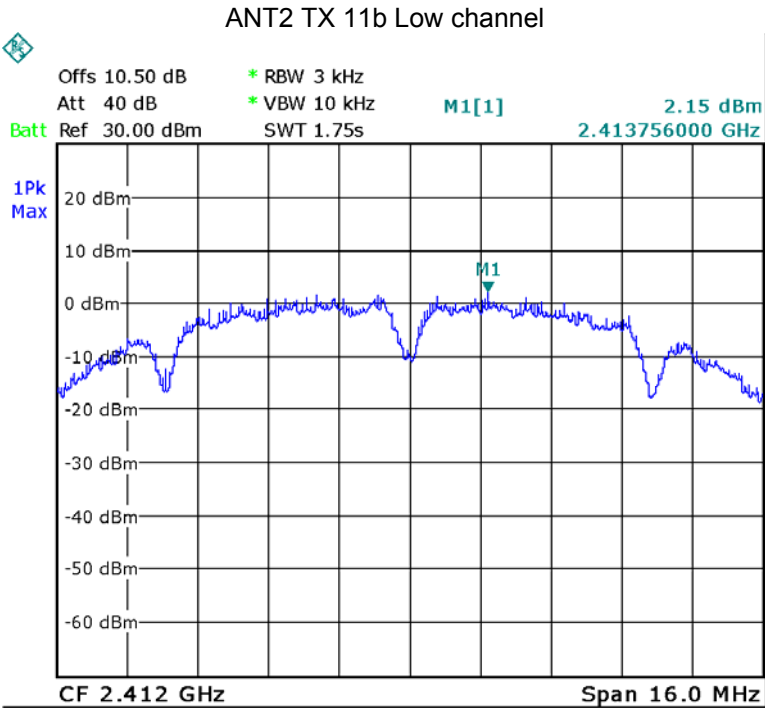


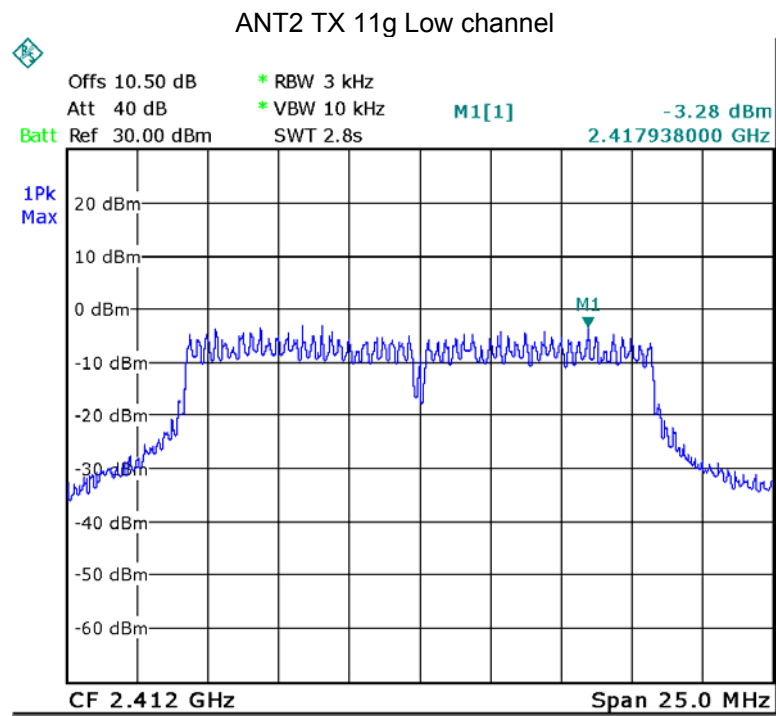
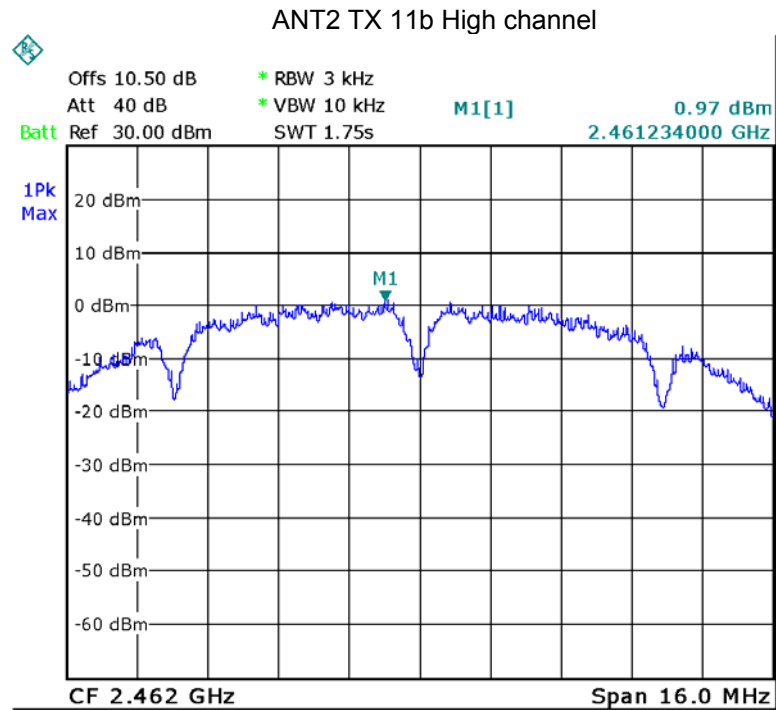


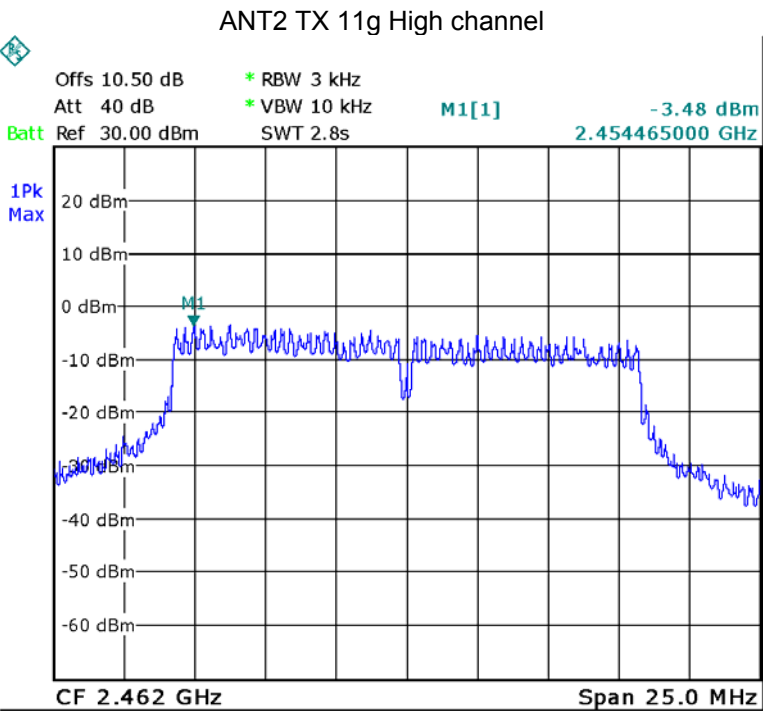
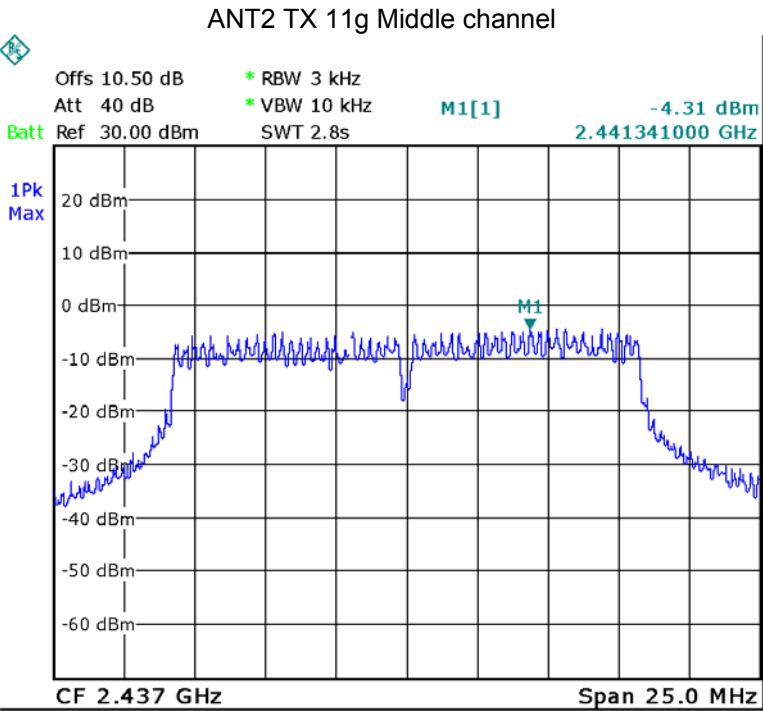


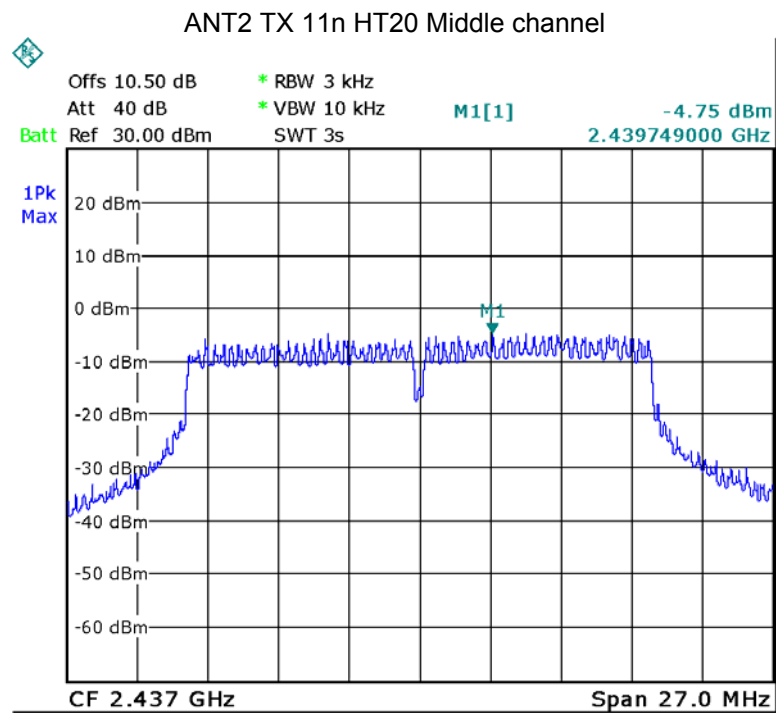
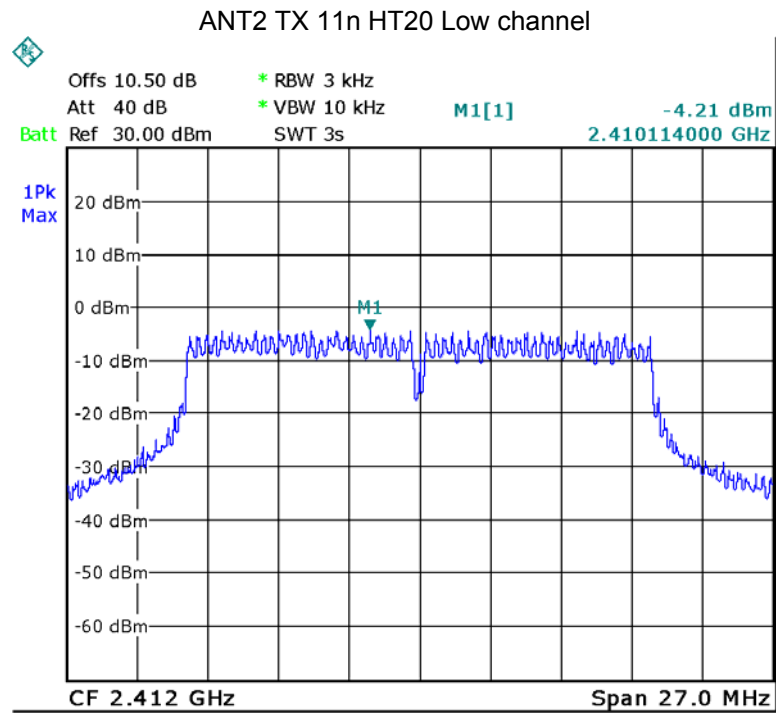


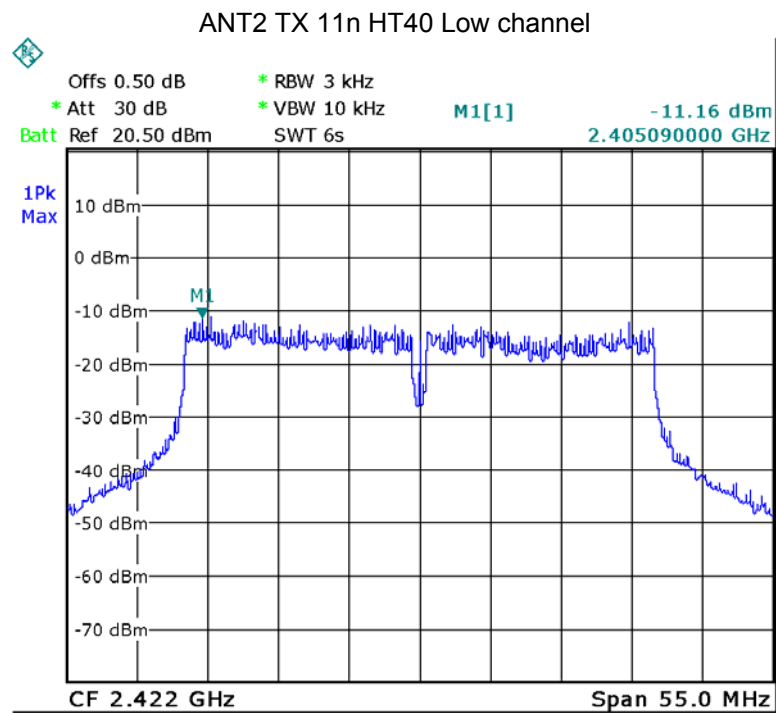
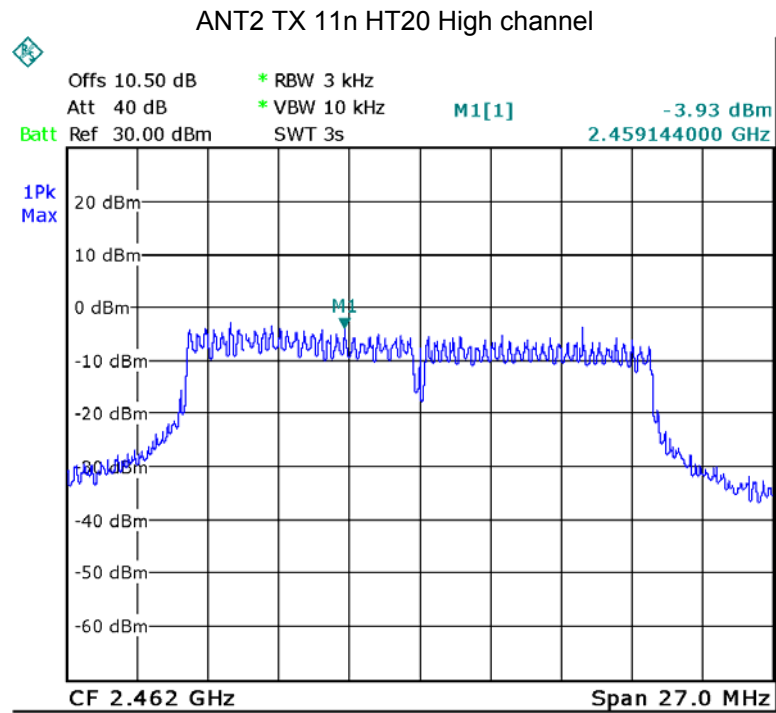


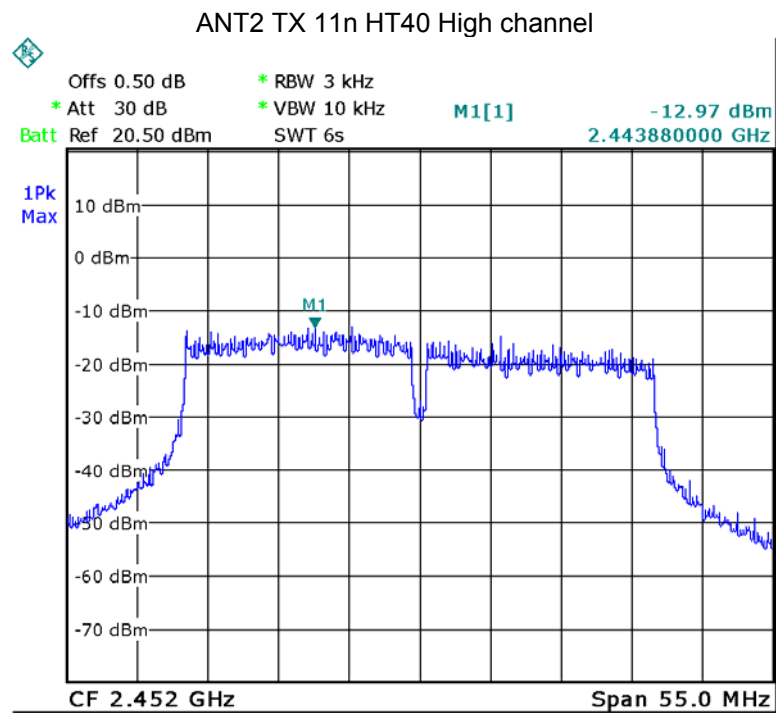
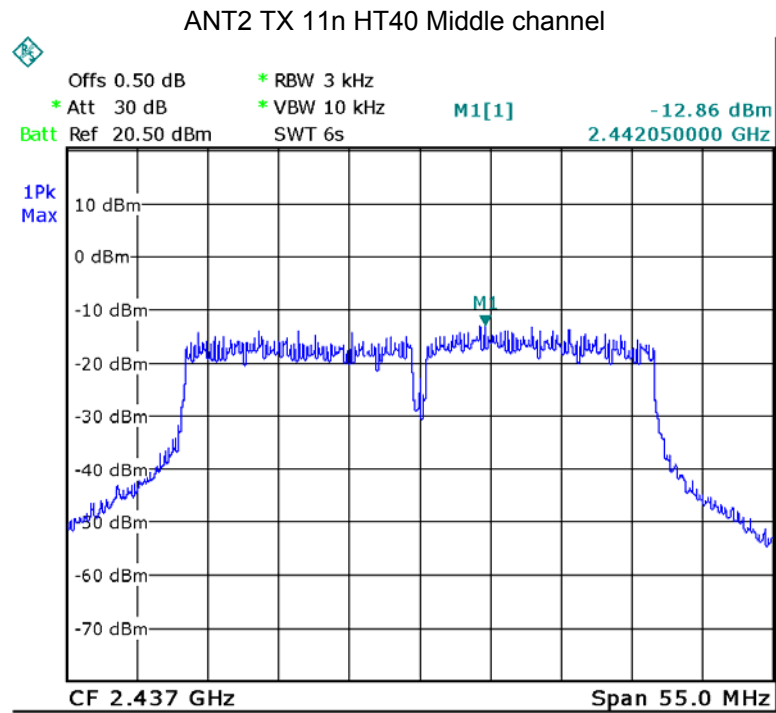












12 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product have two PCB printed antenna, fulfill the requirement of this section.

13 RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091

13.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

13.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

13.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
1.995	29.90	977.24	0.38785	1

=====End of Report=====