

# **Test Report**

# 47 CFR FCC Part 15 subpart C Intentional Radiators

Report reference no. ...... 28112302 011

FCC Designation Number ......: 1T0008
FCC Test Firm Registration #.....: 804595

Tested by (name + signature).....:

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Applicant's name...... Flextronics International Sweden AB

Address ...... Datalinjen 3A – SE538 30 Linköping – Sweden

Test item description ...... loT rapid prototyping platform for development within Low Power

Wide Area Network Technologies.

Trade Mark..... FLEX

Manufacturer : Flextronics

FCC ID ...... 2AF5R-iENBL111B

Ratings ...... Internal rechargeable battery 3,7V dc

Sample.....:

Samples received on...... 06/Nov/2018

Samples tested n...... 2

Testing....:

Start Date: ...... 08-Nov-2018

End Date: ...... 14-Jan-2019

The results in this Test Report are exclusively referred to the tested samples.

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## **SUMMARY**

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RELEASE CONTROL RECORD				
TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE		
28112302_005	Original release	07-Feb-2019		
28112302 011	Removed RF exposure test.	22-Oct-2019		
20112302_011	DTS KDB reference updated to version v05r02 2019-04-02	22-001-2019		

1. Reference Standards			
Standard	Description		
FCC Part 15 (Subpart C)	\$15.247 Operation within the bands 902-928 MHz, 2400-2483,5 MHz, and 5725-5850 MHz.		
FCC Part 15 (Subpart C)	§15.207 Conducted Limits		
FCC Part 15 (Subpart C)	§15.209 Radiated emission limits; general requirements		
FCC Part 15 (Subpart C)	§15.203 Antenna Requirement		
ANSI C63.4:2014	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz		
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices		
558074 D01 DTS Meas Guidance v05r02 – April,02,2019	Guidance for performing compliance measurements on digital transmission systems (dts) operating under §15.247		



2. Summary of testing:					
FCC Rule Part	Test Item	Result	Remarks		
15.207	AC POWER CONDUCTED EMISSION	N/A	Battery Operated		
15.205 15.209 15.247(d)	RADIATED EMISSIONS	PASS	Meet the requirement of limit		
15.247(a)(2)	6dB BANDWIDTH	PASS	Meet the requirement of limit		
15.247(b)(3)	OUTPUT POWER	PASS	Meet the requirement of limit		
15.247(d)	OUT OF BAND EMISSIONS	PASS	Meet the requirement of limit		
15.247(d)	100 kHz Bandwidth of Frequency Band Edges	PASS	Meet the requirement of limit		
15.247(e)	POWER SPECTRAL DENSITY	PASS	Meet the requirement of limit		
15.203	ANTENNA REQUIREMENT	PASS	Integral Antenna declared gain= +2,44dBi		

## Possible test case verdicts:

- test case does not apply to the test object...: N/A- test object does meet the requirement.....: PASS

- test object does not meet the requirement...: FAIL



#### General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.



3. General product information
loT rapid prototyping platform for development within Low Power Wide Area Network Technologies.
4. General Chipset information
ST Microelectronics BlueNRG-1
5. General Antennas information
Antenna type: Planar inverted F-antenna (PCB trace)



6.	6. Equipment Used During Test							
Use*	Product Type	Manufacturer	Model	Comments				
EUT	IoT rapid prototyping platform for development within Low Power Wide Area Network Technologies.		iENBL111B					
AE	PC	Dell		Used to set Bluetooth Channels				

Note:

\* Use:

EUT - Equipment Under Test,

AE - Auxiliary/Associated Equipment, or

SIM - Simulator (Not Subjected to Test)

No other Auxiliary/Associated Equipment was connected/installed on the EUT

7. Input/Output Ports					
COV	INECTIONS				
Port		Description	Connection	Cable lenght	
1	Enclosure	Non conductive surface	Closed by 4 metallic screws		
2	AC Power Port	Port not present			
3	3 DC Power Port DC Internal rechargeable battery 3,7V				
*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) WN = Wired Network					

8. Power Interface						
Mode #	Voltage (Vdc)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	3,7 dc			DC		



9. EUT Operation Modes				
Operation Description				
#1	Continuous Bluetooth Low Energy Modulation RF Transmission RF setting during tests: Frequency: 2402 MHz (low channel); 2440 MHz (mid channel); 2480 MHz (high channel); TX RF Power: set at +5dBm			

10. EUT	10. EUT Configuration Modes		
Mode #	Mode # Description		
1	1 EUT transmitting by means of PCB antenna (standard configuration)		
2 EUT equipped with temporary SMA connector for RF conducted measurements			



#### 11. Test Conditions and Results

11.1 TEST: Antenna requirements					
Parameters required prior to the	Laboratory Ambient Temperature (°C)	15 to 35 °C	;		
test	Relative Humidity (%)	30 to 60 %			
Parameters recorded during the	Laboratory Ambient Temperature (°C)	21°C			
test	Relative Humidity (%)	56%			
	Air pressure (hPa)	1020			
_	Power Supply / Frequency	Application P	oint		
Fully configured sample tested at the power line frequency	Batteries Operated	Enclosure			
Equipment mode:	Operation mode	mode #1			
FCC Standard	§15.203 § 15.247 (B)(4)(I)				

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Antenna specifications			
N° of authorized antenna types	1		
Antenna type	Planar inverted F-antenna (PCB trace)		
Maximum total gain	+2.44 dBi		
External power amplifiers	Not present		



11.2 TEST: Radiated Emission			PASS	
Parameters required prior to the test	Laboratory Ambient Temperature (°C)	15 to 35 °C	;	
	Relative Humidity (%)	30 to 60 %		
Parameters recorded during the test	Laboratory Ambient Temperature (°C)	21°C		
	Relative Humidity (%)			
	Air pressure (hPa)	1020		
_	Power Mode	Application Point		
Fully configured sample tested at the power line frequency	t Batteries Operated Enc		Enclosure	
Equipment mode: #1	Operation mode #1			
FCC Standard	§15.205; §15.209; §15.247			

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

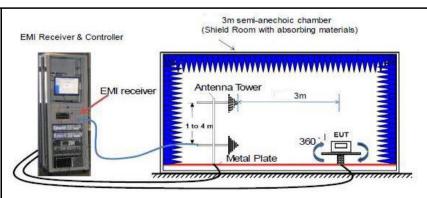
<sup>\*\*</sup>Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

Remark: In accordance with part 15.31 (f) (2), where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performed at a separation distance. The applied formula for limits at 3 meter is: Extrapolation (dB) = 40log (300meter / 3meter) = +80db Extrapolation (dB) = 40log (30meter / 3meter) = +40dB

According to KDB 414788 D01v01r01, for emission measurements below 30 MHz semi-anechoic chamber has been characterized so that the measurements correspond to those obtained at an open-field test site. EUT is battery operated and has been tested on all three orthogonal axis positions. Worst case result has been listed

Further information to test setup:

For frequencies above 1GHz, the anechoic material is also placed on the metallic floor between EUT and Antenna



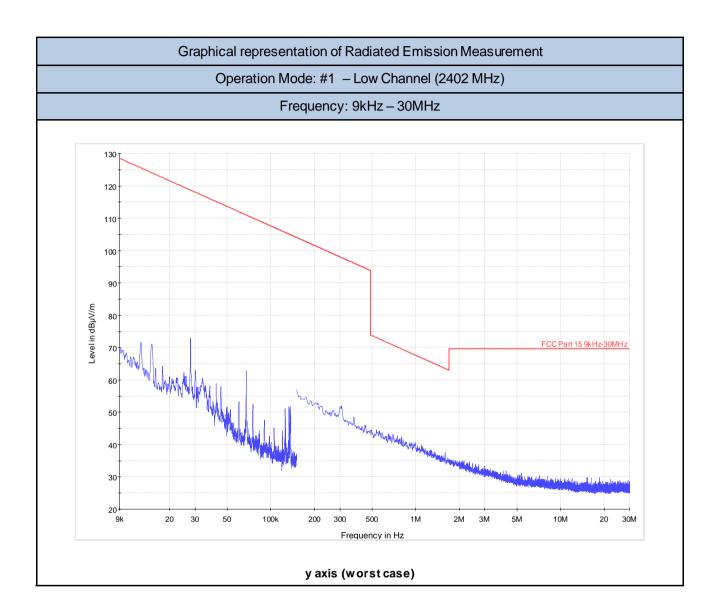


Test Equipment Used							
Description	Manufacturer	Model	Identifier	Calibration date	Calibration due		
CSSA	ETS Lindgren	FACT3	87020484	06/2017	06/2019		
EMITest Receiver	R&S	ESW44	87020967	06/2018	06/2019		
Loop Antenna	EMCO	6512	87020465	02/2017	02/2020		
Antenna BiConiLog	ETS Lindgren	3124E	87020457	04/2017	04/2020		
Antenna Horn with Preamplifier	ETS Lindgren	3117-PA	87020458	04/2017	04/2020		
2xAntenna Horn with Preamplifier	ETS Lindgren	114514	87020459	04/2017	04/2020		
		120722	87020460				
Highpass Filter	Wainwright Instr.	WHKX10-2520- 2800-18000- 40ss	87020799	05/2018	05/2019		

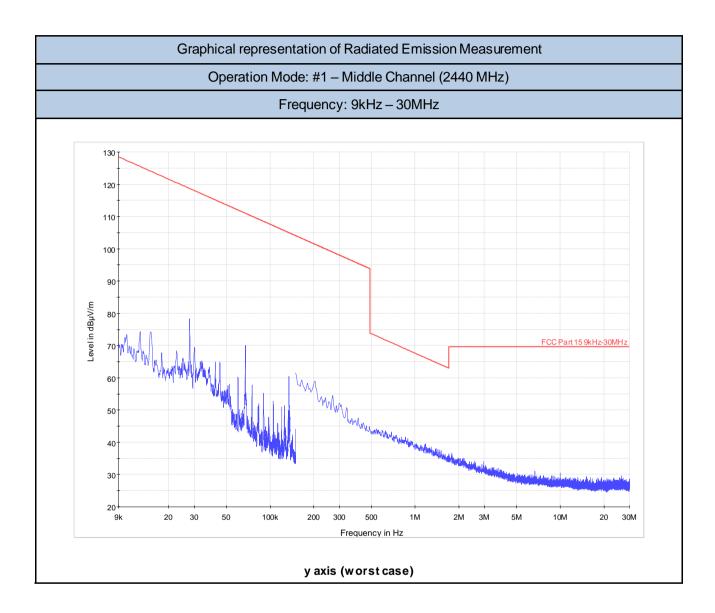
### Test Procedure

In accordance to sections 6.3, 6.4, 6.5, 6.6 of ANSI C63.10

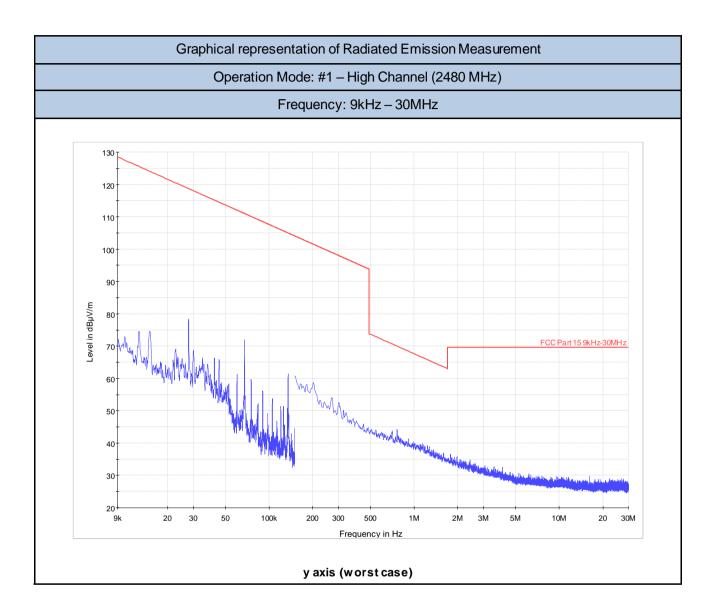




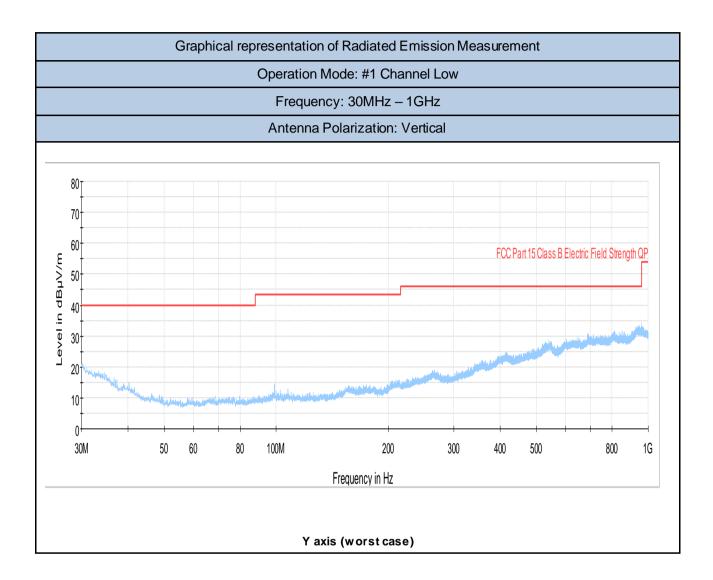




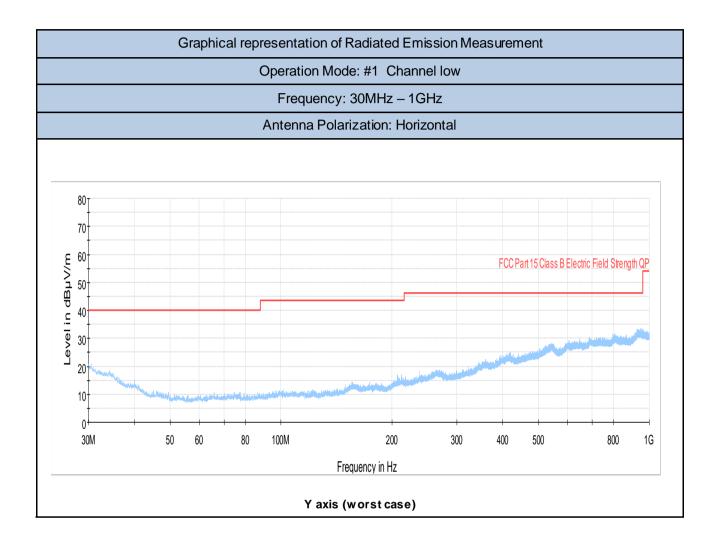




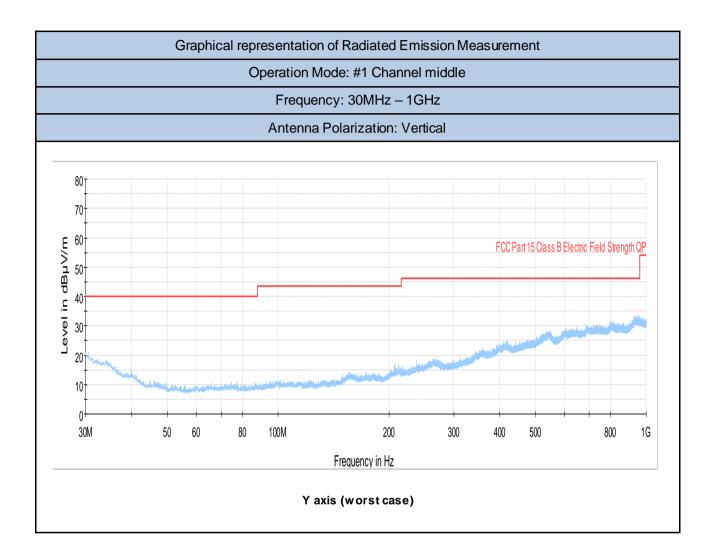




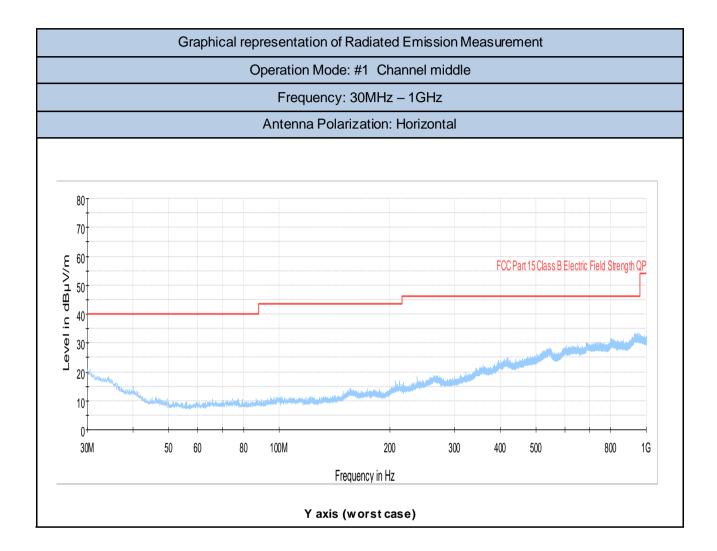




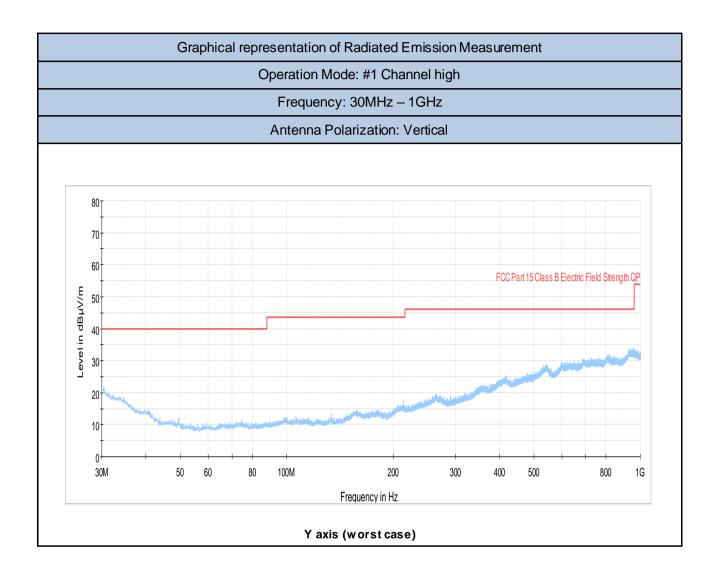




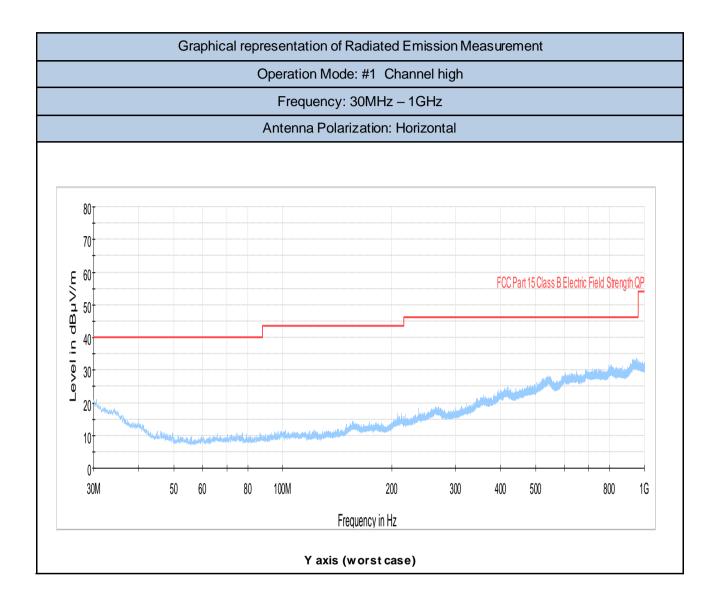




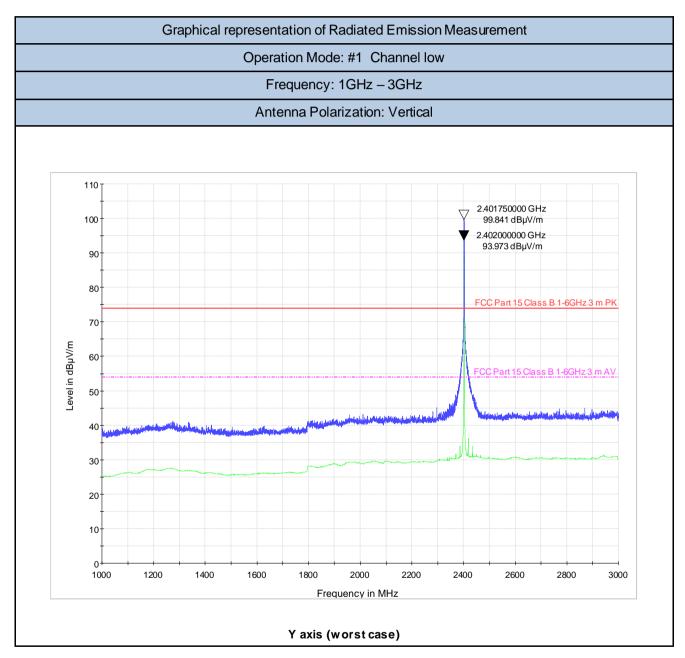


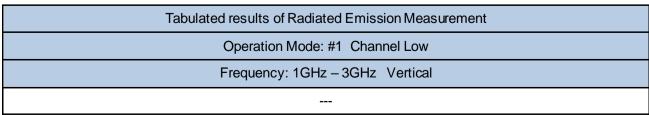




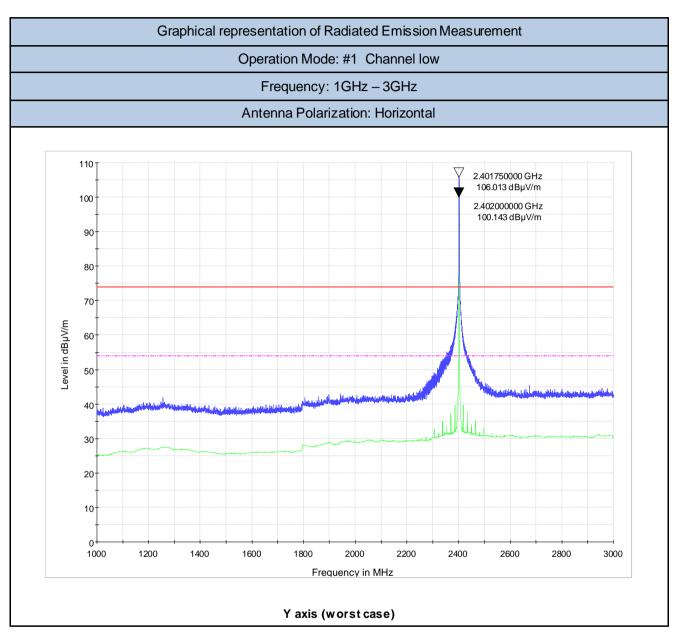


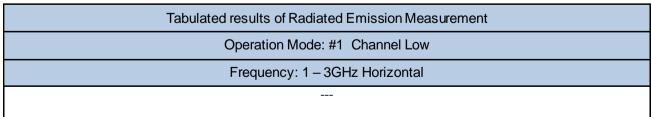




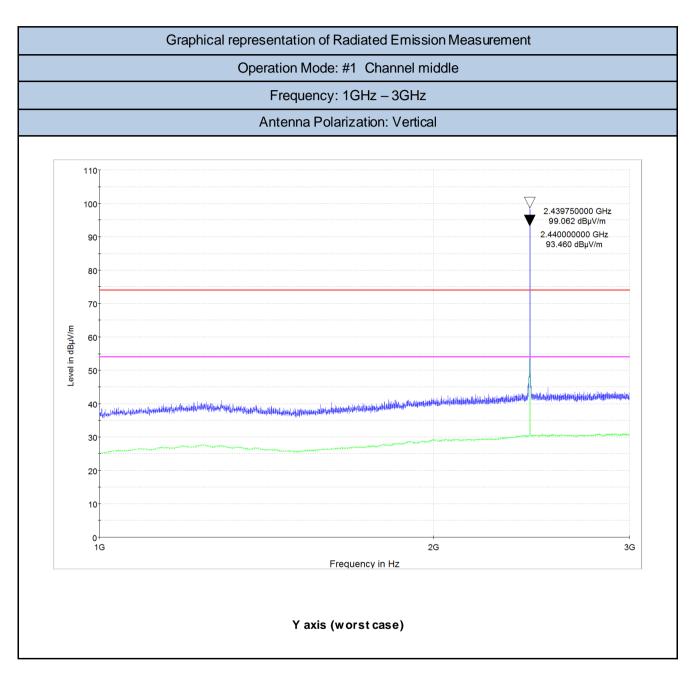


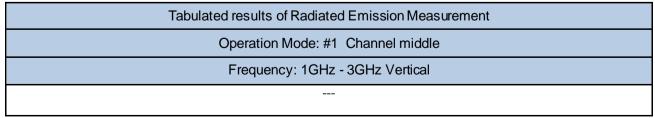




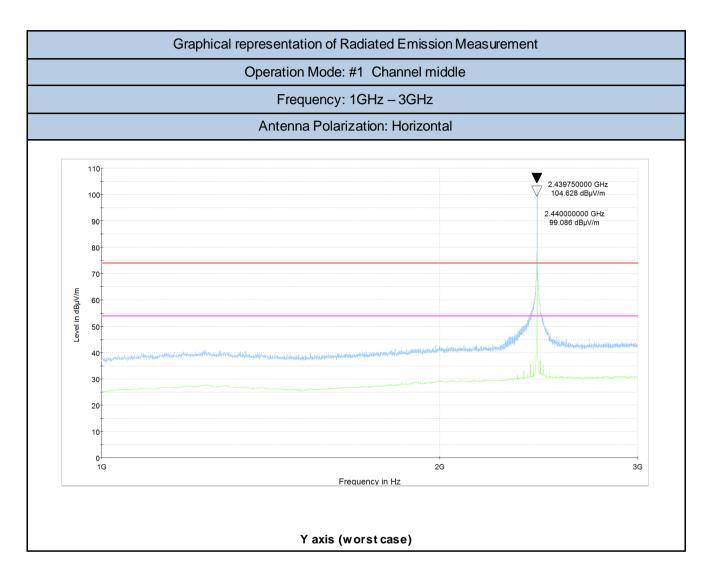


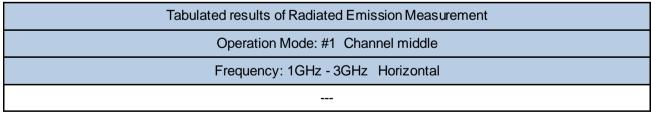




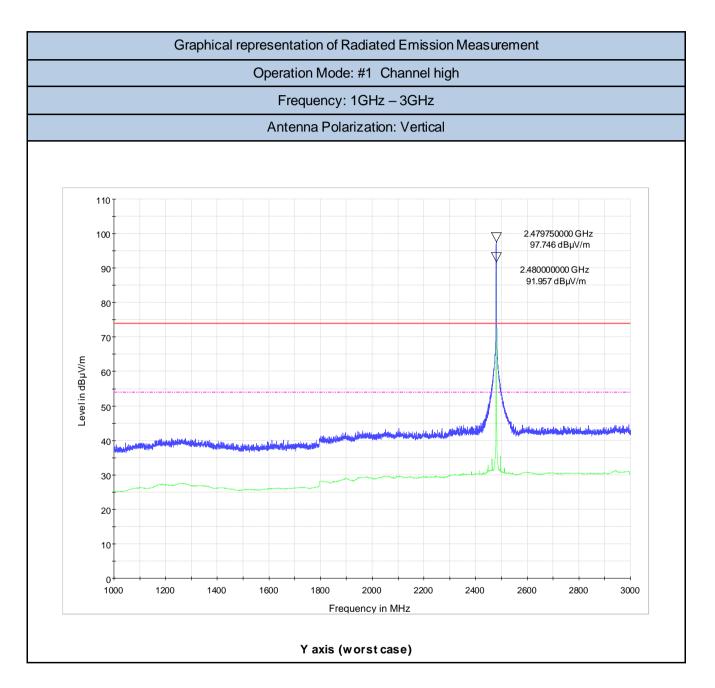


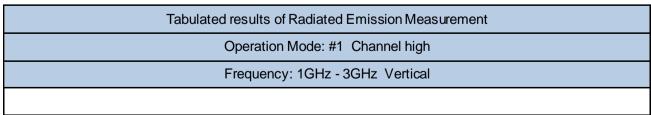




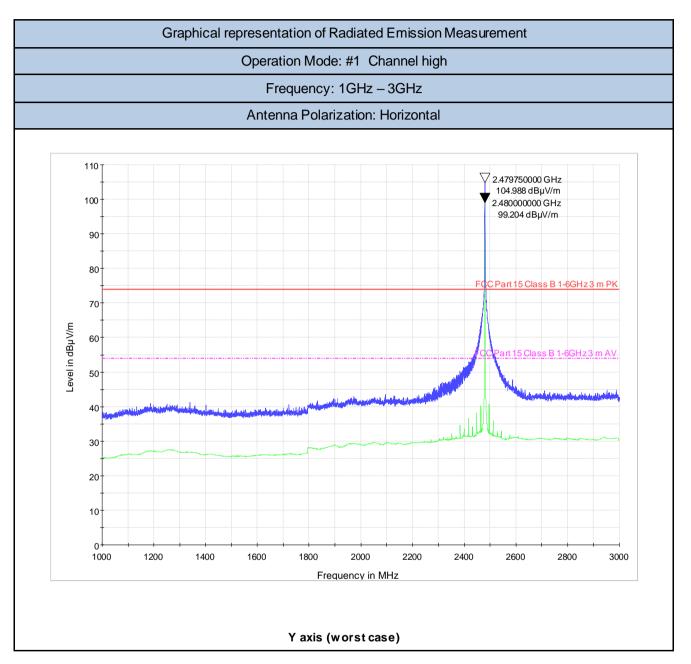


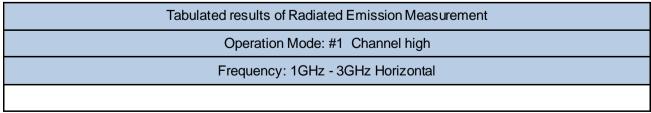




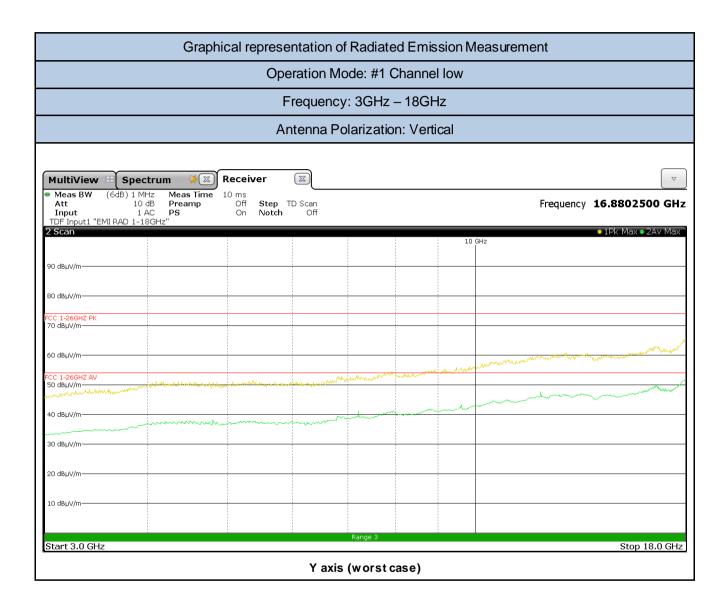




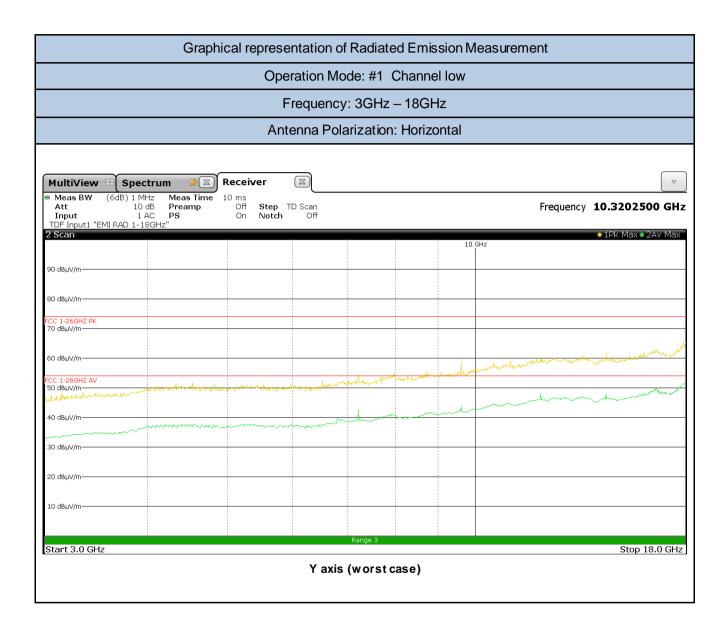




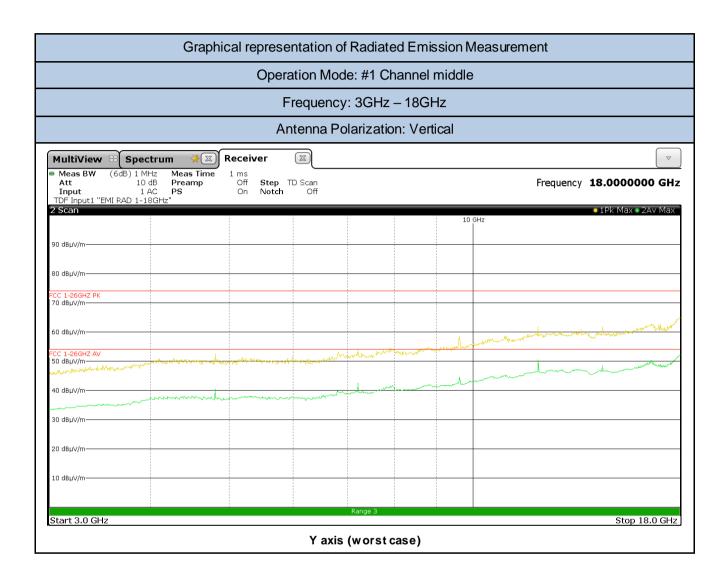




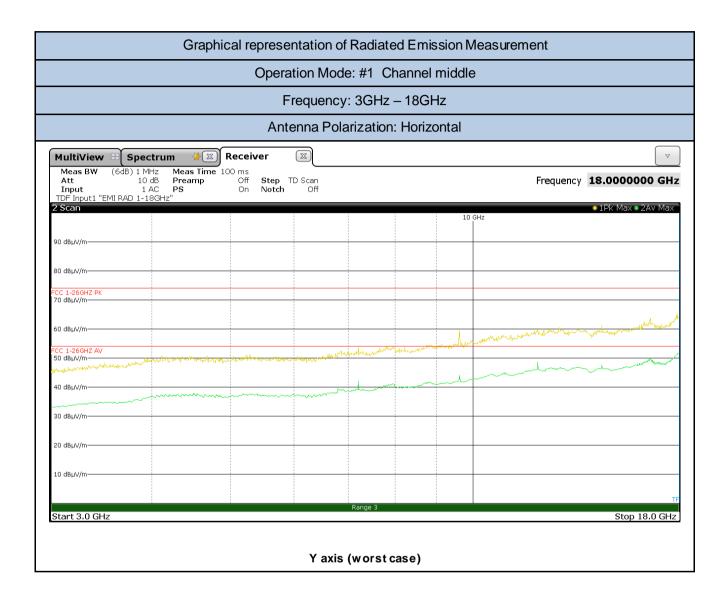




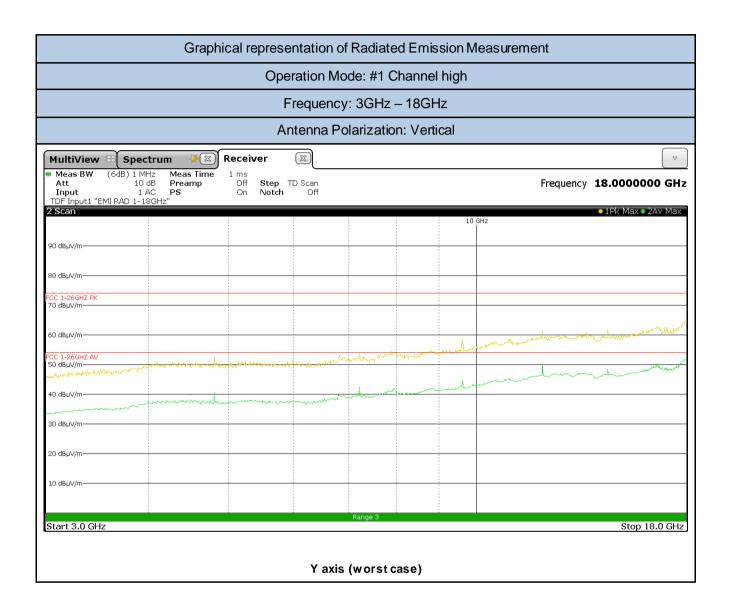




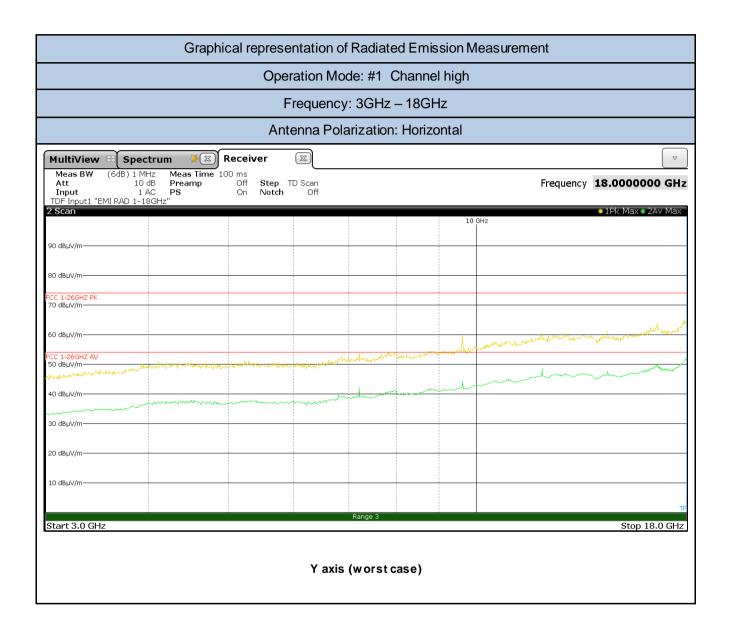




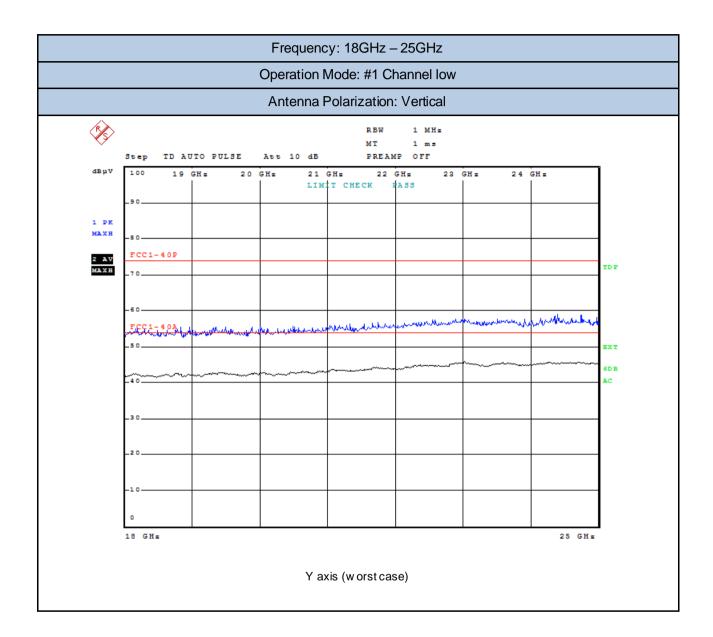




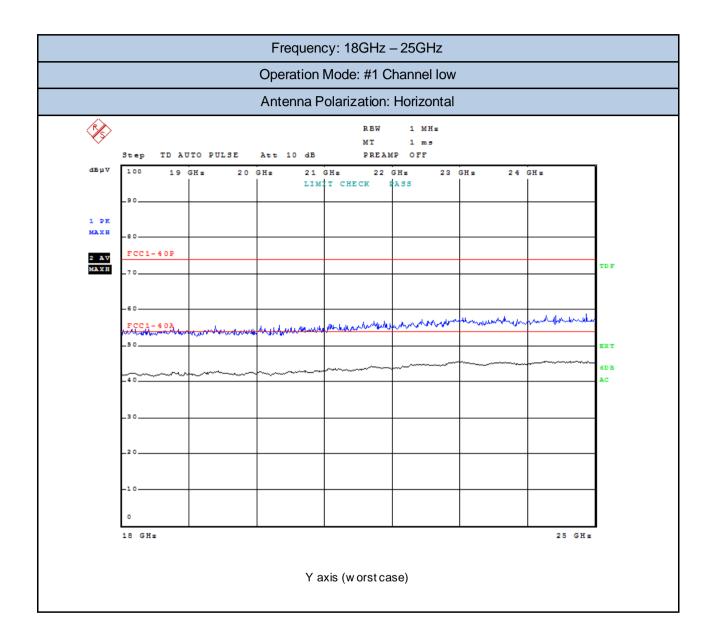




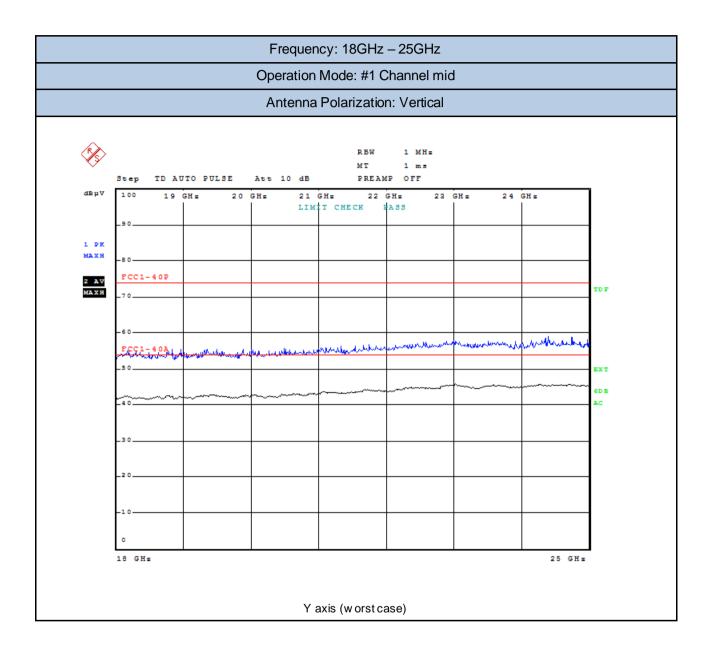




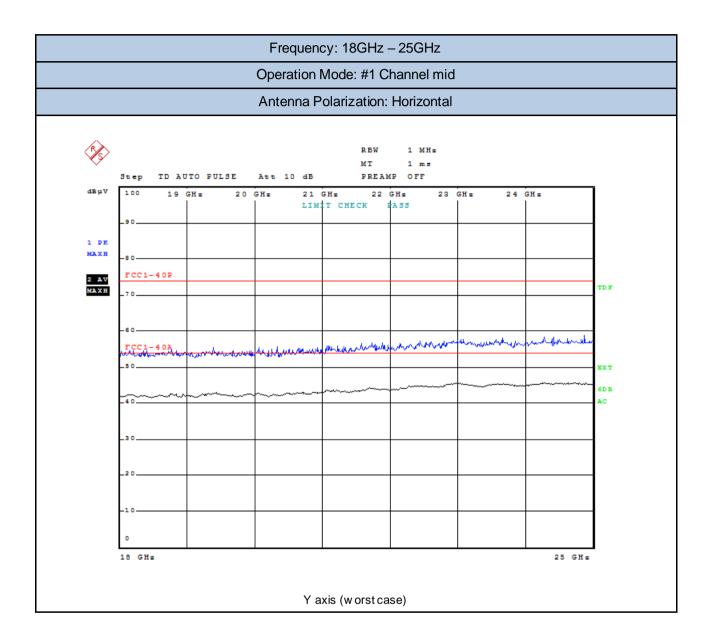




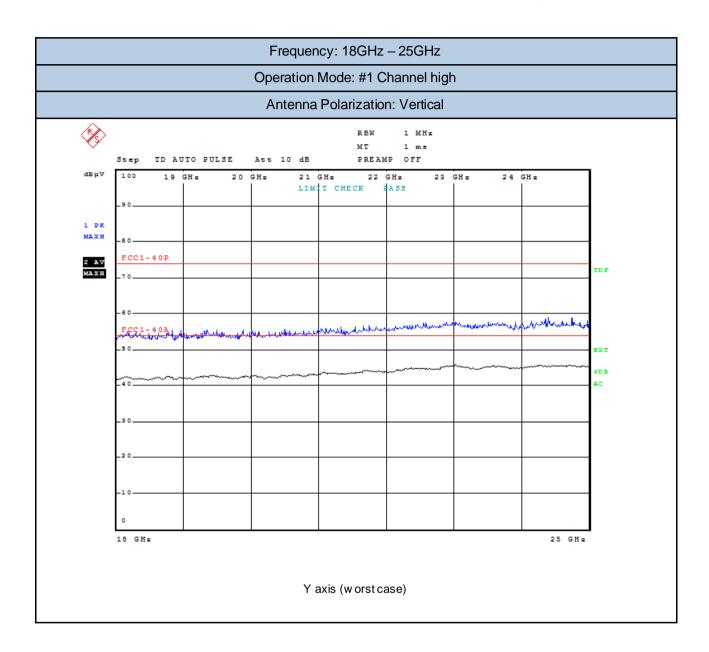




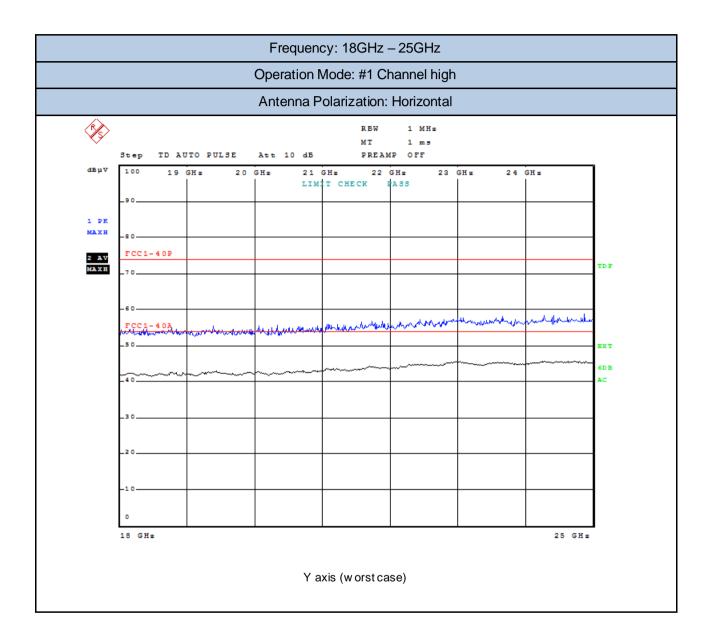




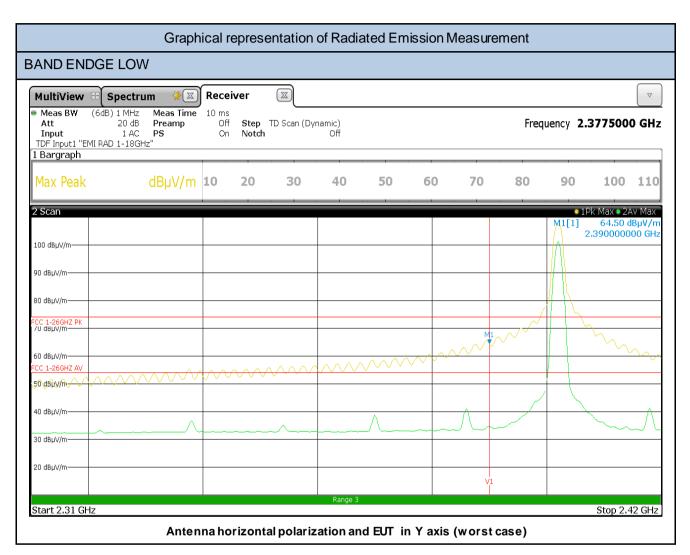








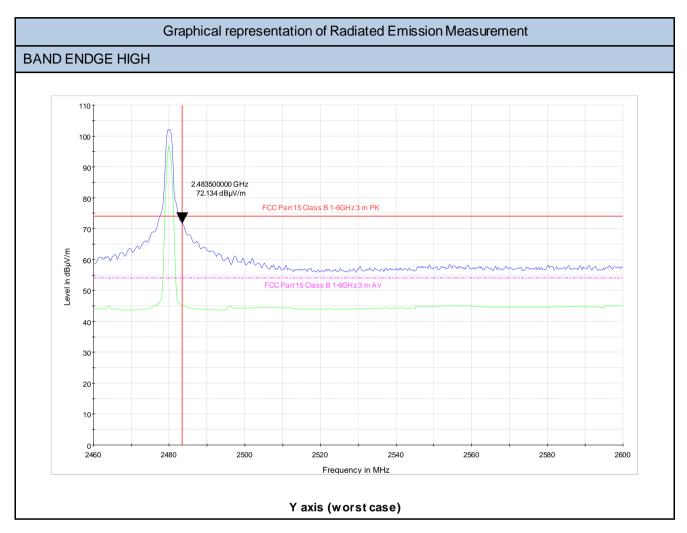




	PEAK RESULT (RBW=1MHz)										
Frequency	Frequency Reading Antenna Cable Correcting Restricted PK Limit Margin value Factor Loss reading band (AV Limit + 20dB)										
(MHz)	(dBµV)	(dB3/m)	(dB)	(dBµV/m)	1	(dBµV/m)	(dB)				
2390	31,32	29,63	3,55	64,50	yes	74,00	9,50				

	AVERAGE RESULT (RBW=1MHz)									
Frequency	Frequency Reading Antenna Cable Correcting Restricted AV Limit Margi value Factor Loss reading									
(MHz)	(MHz) (dBμV) (dB3/m) (dB) (dBμV/m) / (dBμV/m) (dB									
2390	2,32	29,63	3,55	35,50	yes	54,00	18,50			





	PEAK RESULT (RBW=1MHz)									
Frequency	Frequency Reading value Factor. Cable Correcting reading reading PK Limit (AV Limit + 20dB)									
(MHz)	(dBµV)	(dB3/m)	(dB)	(dBµV/m)	1	(dBµV/m)	(dB)			
2483,5	38,69	29,80	3,64	72,13	yes	74,00	1,87			

	AVERAGE RESULT (RBW=1MHz)									
Frequency	Frequency Reading Antenna Cable Correcting Restricted AV Limit Margin value Factor Loss reading									
(MHz)	(MHz) (dBμV) (dB3/m) (dB) (dBμV/m) / (dBμV/m) (dB)									
2483,5	11,56	29,80	3,64	45,00	yes	54,00	9,00			



# 12. Test Conditions and Results - 6dB BANDWIDTH

12	TEST: 6dB Bandwid	th		PASS	
	required prior to the	Laboratory Ambient Temperature (°C)	15 to 35 °C	;	
test		Relative Humidity (%)	30 to 60 %		
Parameters recorded during the test		Laboratory Ambient Temperature (°C)	22°C		
		Relative Humidity (%)	49%		
		Air pressure (hPa)	1020		
_		Power Mode	Application Po	oint	
Fully configured sample tested at the power line frequency		Batteries Operated	SMA connector		
Equipment m	node: #2	Operation mode	#1		
FCC Standar	rd	§15.247			
		echniques may operate in the 902-928 M um 6 dB bandwidth shall be at least 500		z, and	
Further inforr	nation to test setup				
		EUT  Attenuator (optional)	Spectrum Analyzer (or Power Meter)		



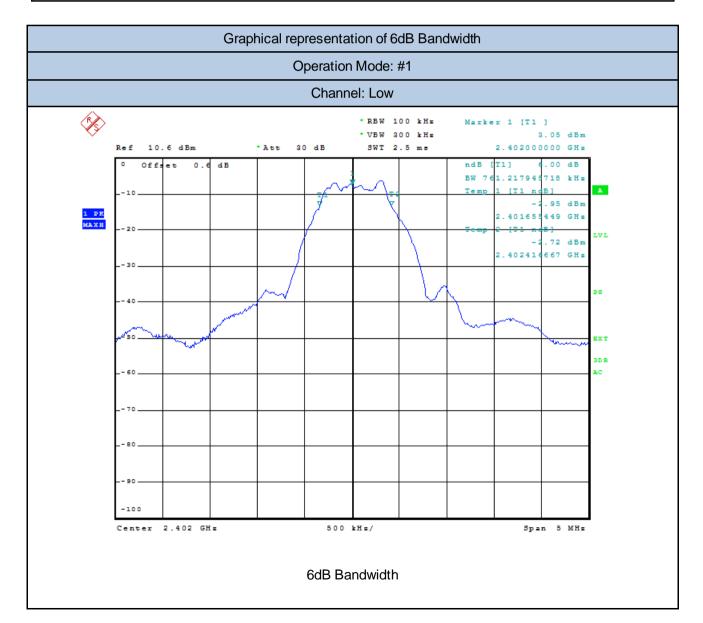
Test Equipment Used								
Description Manufacturer Model Identifier Calibration date Calibration due								
EMI Test Receiver R&S ESU40 87020455 05/2018 05/2019								

# Test Procedure

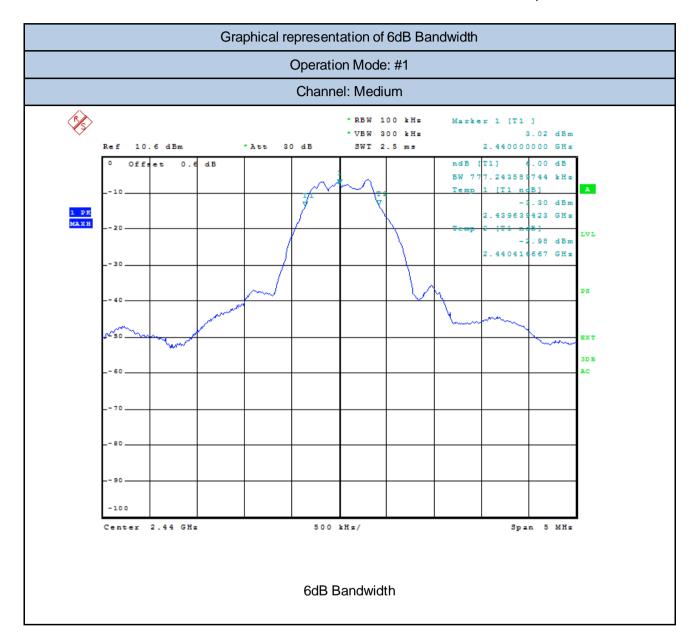
Section 2.1 of KDB 558074

Subclause 11.8.1 Option 2 of ANSI C63.10 is applied

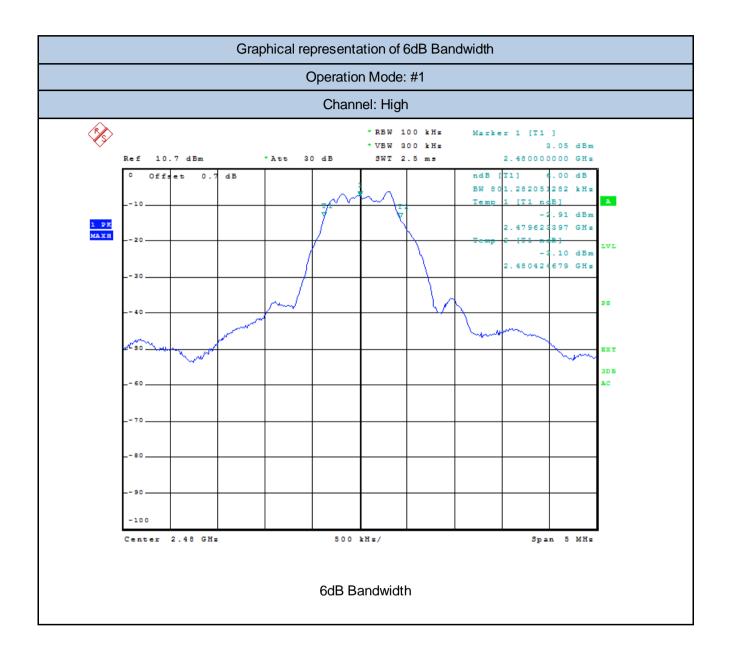
DTS Bandwidth













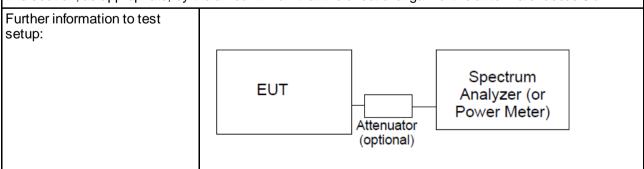
Frequency (MHz)	Channel	6dB BW (MHz)	Result
2402	Low	0.761	pass
2440	Middle	0.777	pass
2480	High	0.801	pass



## 13. Test Conditions and Results - RF OUTPUT POWER

13	TEST: Output Power	•		PASS
Parameters required prior to the		Laboratory Ambient Temperature (°C)	15 to 35 °C	
test		Relative Humidity (%)	30 to 60 %	
Parameters recorded during the test		Laboratory Ambient Temperature (°C)	22,5°C	
		Relative Humidity (%)	51%	
		Air pressure (hPa)	1020	
_		Power Mode	Application Po	oint
Fully configu the power line	red sample tested at e frequency	Batteries Operated	SMA	
Equipment m	node: #2	Operation mode	#1	
FCC Standard		§15.247		

- (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:
- (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
- (2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.
- (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
- (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.





	Test Equipment Used									
Description Manufacturer Model Identifier Calibration date Calibration due										
EMITest Receiver R&S ESU40 87020455 05/2018 0					05/2019					
RF cable sucoflex 104 2902386 10/2018 10/2019										

# Test Procedure

Section 8.3.1 of KDB 558074

Subclause 11.9.1.1 of ANSI C63.10 is applied

Maximum peak conducted power

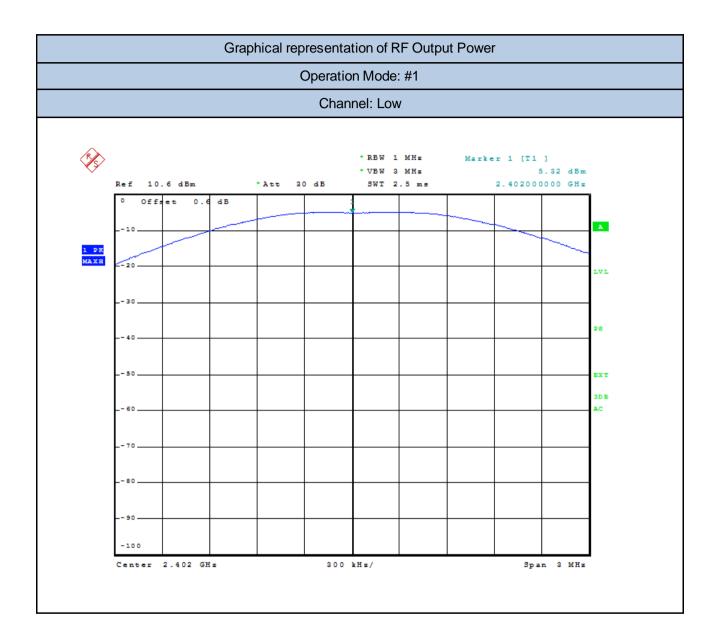
RBW =1MHz, VBW=3MHz, Detector = Peak

Sweep time = auto, Trace mode= max hold, Allow trace to fully stabilize.

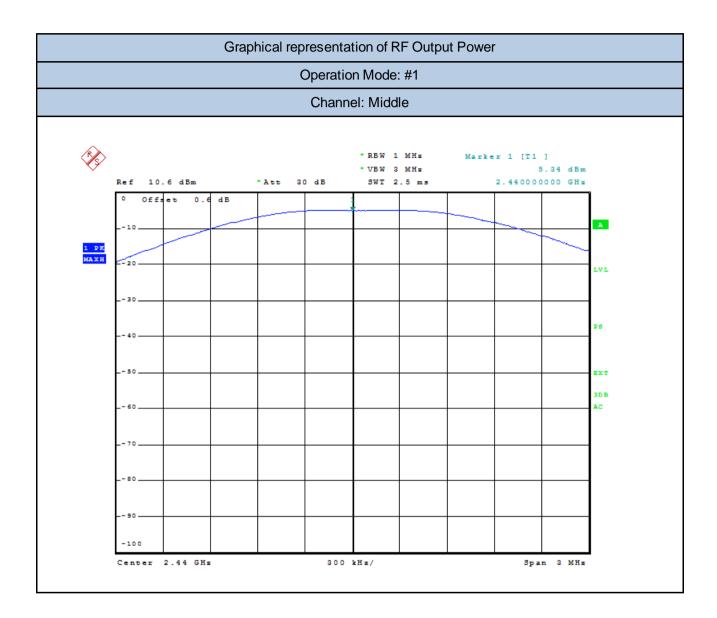
# **Test result of Maximum Output Power**

Channel	Channel Frequency	Output power (conducted)	Limit	Output power (conducted)	Limit
	(MHz)	(dBm)	(dBm)	(W)	(W)
Low Channel	2402	+5,32	30	0.003404	1
Middle Channel	2440	+5,34	30	0.003420	1
High Channel	2480	+5,17	30	0.003289	1

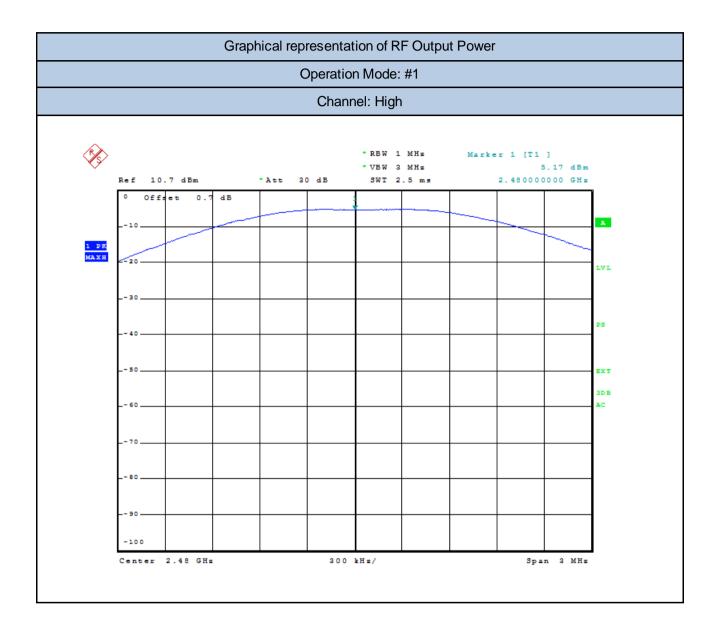










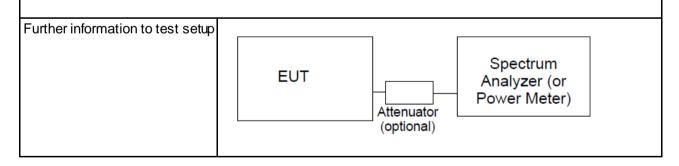




#### 14. Test Conditions and Results - Out of Band Emissions

14	TEST: Out of Band E	missions	PASS	
Parameters required prior to the test		Laboratory Ambient Temperature (°C)	15 to 35 °C	
		Relative Humidity (%)	30 to 60 %	
Parameters recorded during the test		Laboratory Ambient Temperature (°C)	21°C	
		Relative Humidity (%)	49%	
		Air pressure (hPa)	1020	
_		Power Mode	Application Po	oint
Fully configu the power line	red sample tested at e frequency	Batteries Operated	SMA Connec	tor
Equipment m	node: #2	Operation mode	#1	
FCC Standard		§15.247(D)		

(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)).

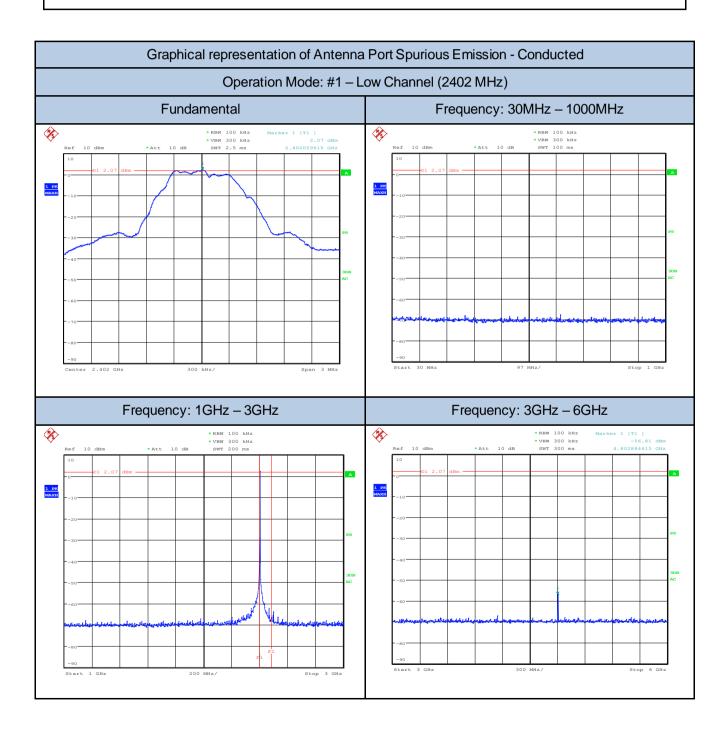


Test Equipment Used									
Description Manufacturer Model Identifier Calibration date Calib									
EMI Test Receiver         R&S         ESU40         87020455         05/2018         05/20									

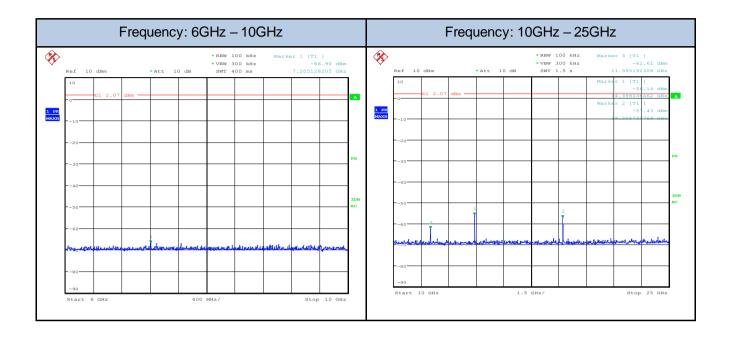


## Test Procedure

Section 8.5 of DTS *KDB 558074* Subclause 11.11 of ANSI C63.10 is applied

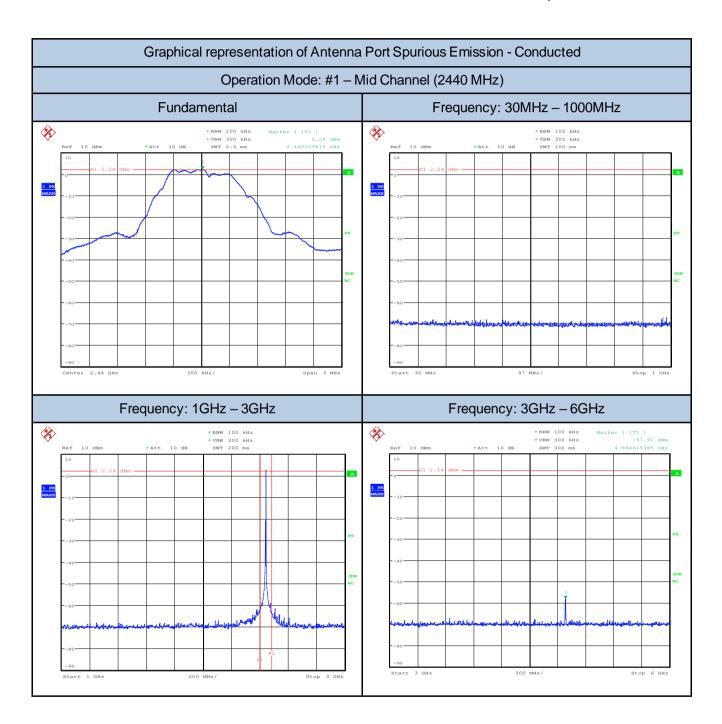




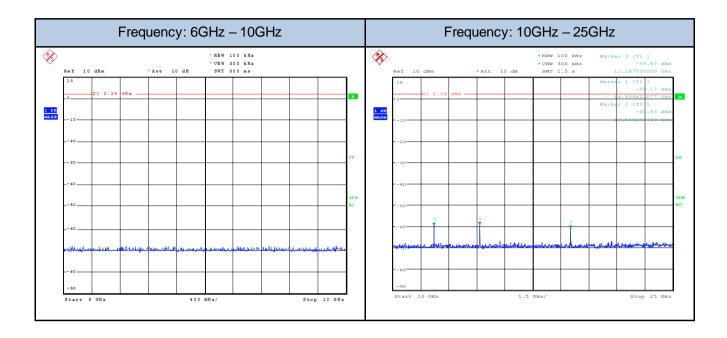


Frequency (MHz)	Level (dBm)	Fundamental Level (dBm)	Difference (dB)	Limit (at least) (dB)	Rusult
4802,88	-56,81		58,88		compliant
7205,12	-66,90		69,97		compliant
11995,19	-62,61	+2,07	64,68	20	compliant
14399,03	-56,14		58,21		compliant
19206,73	-57,43		59,50		compliant



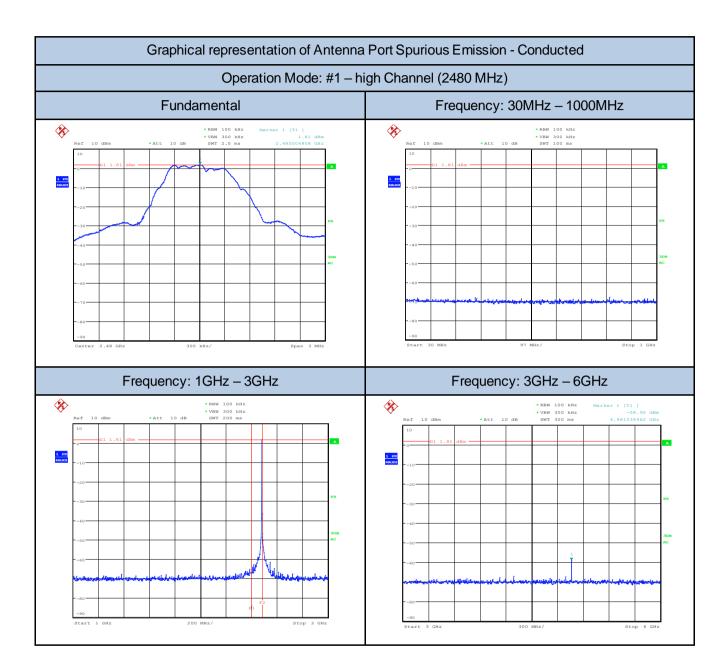




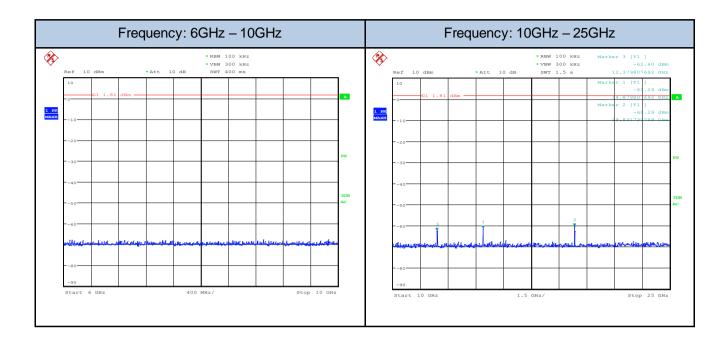


Frequency (MHz)	Level (dBm)	Fundamental Level (dBm)	Difference (dB)	Limit (at least) (dB)	Rusult
4884,61	-57,91		60,15		compliant
12187,50	-59,67	2.24	61,91	20	compliant
14639,42	-55,17	+2,24	57,41	20	compliant
19512,23	-60,83		63,07		compliant









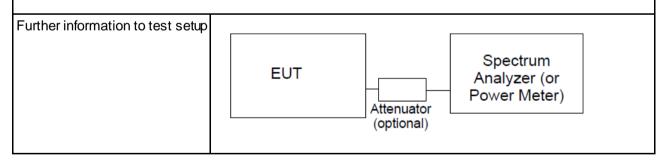
Frequency (MHz)	Level (dBm)	Fundamental Level (dBm)	Difference (dB)	Limit (at least) (dB)	Rusult
4961,53	-58,95		60,76		compliant
12379,80	-62,40	- 4.04	64,21	20	compliant
14879,80	-61,29	+1,81	63,10	20	compliant
19831,73	-60,29		62,10		compliant



## 15. Test Conditions and Results - 100 kHz Bandwidth of Frequency Band Edges

15	TEST: 100 kHz Band	width of Frequency Band Edges		PASS
Parameters required prior to the test		Laboratory Ambient Temperature (°C)	15 to 35 °C	;
		Relative Humidity (%)	30 to 60 %	
Parameters recorded during the test		Laboratory Ambient Temperature (°C)	21°C	
		Relative Humidity (%)	49%	
		Air pressure (hPa)	1020	
		Power Mode	Application Po	oint
Fully configured sample tested at the power line frequency		Batteries Operated	SMA Connector	
Equipment m	ode: #2	Operation mode	#1	
FCC Standar	d	§15.247(D)		

(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)).

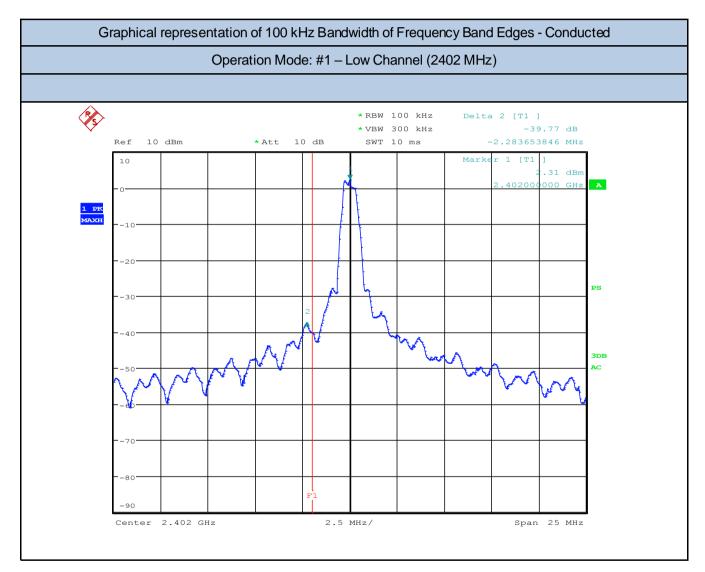


Test Equipment Used					
Description	Manufacturer	Model	Identifier	Calibration date	Calibration due
EMI Test Receiver	R&S	ESU40	87020455	05/2018	05/2019



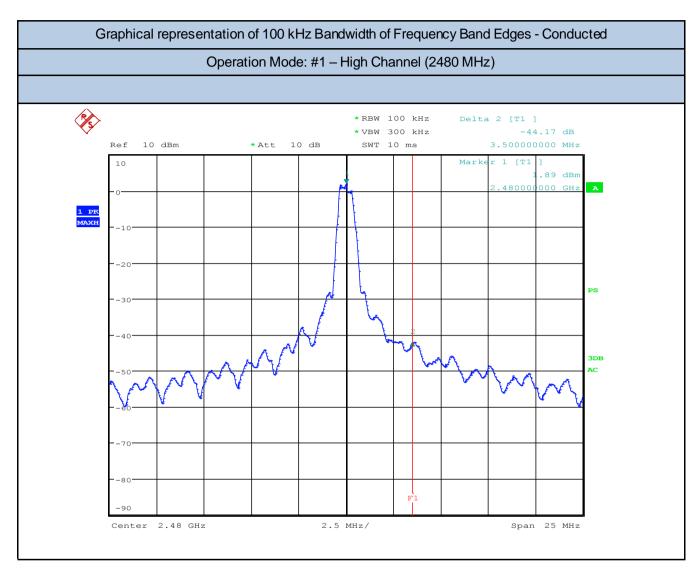
## Test Procedure

Section 8.5 of DTS *KDB 558074* Subclause 11.11 of ANSI C63.10 is applied



Frequency (MHz)	Measured pow er at the band edge (dBm)	Measured peak pow er at fundamental frequency (dBm)	(dB)	Peak Limit at PK pow er –20 dB (dBm)	(ub)
2399,71	-37,46	+2,31	39,77	-17,69	22,08





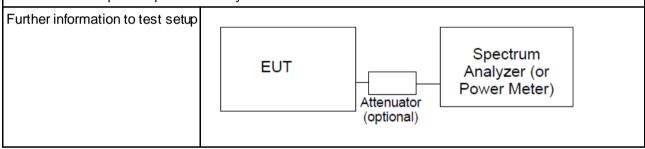
Frequency (MHz)	Measured pow er at the band edge (dBm)	Measured peak pow er at fundamental frequency (dBm)	Difference Peak / band edge (dB)	Peak Limit at PK power –20 dB (dBm)	Margin (dB)
2483,5	-42,28	+1,89	44,17	-18,11	26,06



# 16. Test Conditions and Results - POWER SPECTRAL DENSITY

16	TEST: Power Spectr	al Density		PASS	
Parameters required prior to the test		Laboratory Ambient Temperature (°C)	15 to 35 °C	;	
		Relative Humidity (%)	30 to 60 %		
	recorded during the	Laboratory Ambient Temperature (°C)	24°C		
test		Relative Humidity (%)	37%		
		Air pressure (hPa)	1020		
_		Power Mode	Application Point		
Fully configu the power lin	red sample tested at e frequency	Batteries Operated	Enclosure		
Equipment n	node: #2	Operation mode	#1		
FCC Standa	rd	§15.247	<del></del>		

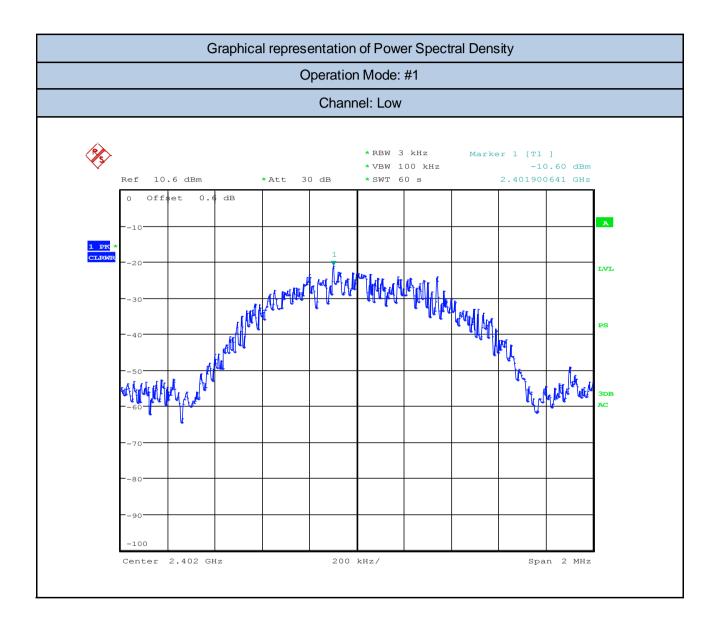
(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.



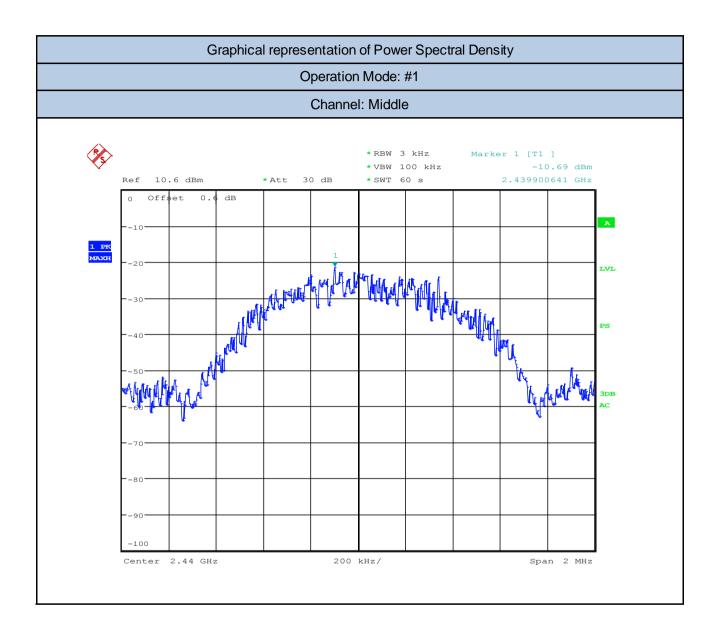
Test Equipment Used					
Description	Manufacturer	Model	Identifier	Calibration date	Calibration due
EMITest Receiver	R&S	ESU40	87020455	05/2018	05/2019

Test Procedure	
Section 8.4 of DTS KDB 558074 Subclause 11.10 of ANSI C63.10 is applicable.	

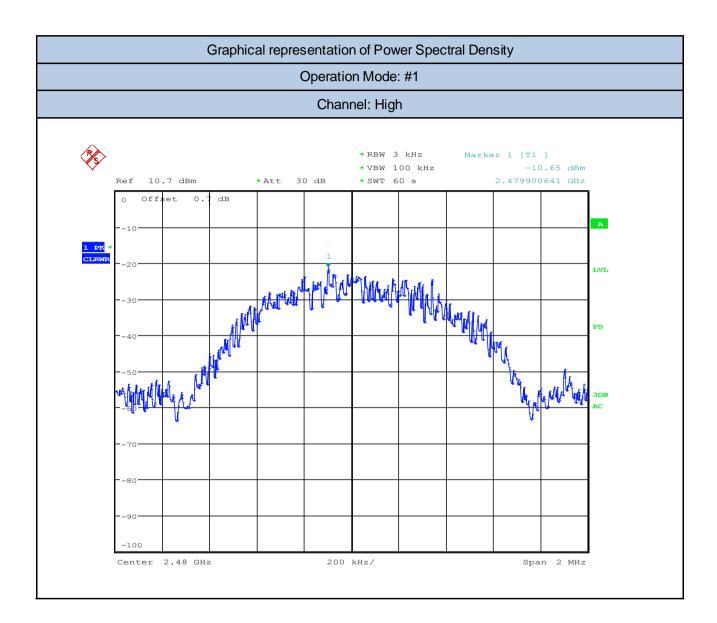














Frequency (MHz)	Channel	PSD (dBm)	Limit (dBm)	result
2402	Low	-10.60	+8	Pass
2440	Middle	-10.69	+8	Pass
2480	High	-10.65	+8	Pass



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