FCC Test Report

Equipment	:	R6100 WiFi Router, R6000 WiFi Router
Brand Name	:	NETGEAR
Model No.	:	R6100, R6000
FCC ID	:	PY312400225
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5150 MHz – 5250 MHz
FCC Classification	:	NII
Applicant Manufacturer	:	NETGEAR, Inc. 350 East Plumeria Drive, San Jose, California 95134, USA
Operate Mode	:	Master

The product sample received on Mar. 06, 2013 and completely tested on Apr. 19, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jordan Hsiao
Assistant Manager

Testing Laboratory
1190

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Summary of Test Result

Conformance Test Specifications					
Report Clause	**Ref. Std. Clause**	**Description**	**Measured**	**Limit**	**Result**
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.1777150MHz 42.49 (Margin 12.10dB) - AV 47.12 (Margin 17.47dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:26.20 / 40M:50.90 / 80M: 103.65	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:16.94	Power [dBm] 5150-5250MHz:17	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:3.94	PPSD [dBm/MHz] 5150-5250MHz:4	Complied
3.5	15.407(a)	Peak Excursion	10.99 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Radiated Bandedge Emissions	Restricted Bands [dBuV/m at 3m]: 5149.80MHz 68.40 (Margin 5.60dB) - PK 53.73 (Margin 0.27dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 43.58MHz 36.98 (Margin 3.02dB) - QP	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	5.8077 ppm	Signal shall remain in-band	Complied

Revision History

Report No.	Version	Description	Issued Date
FR330625AN	Rev. 01	Initial issue of report	Apr. 22, 2013

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N_{TX})	RF Output Power (dBm)	Co-location
For model: R6100						
5150-5250	a	5180-5240	36-48 [4]	2	16.48	Yes
5150-5250	n(HT20)	5180-5240	36-48 [4]	2	16.42	Yes
5150-5250	n(HT40)	5190-5230	38-46 [2]	2	16.94	Yes
5150-5250	ac(VHT20)	5180-5240	36-48 [4]	2	16.51	Yes
5150-5250	ac(VHT40)	5190-5230	38-46 [2]	2	16.88	Yes
5150-5250	ac(VHT80)	5210	42 [1]	2	14.81	Yes
For model: R6000						
5150-5250	a	5180-5240	36-48 [4]	1	16.36	Yes
5150-5250	n(HT20)	5180-5240	36-48 [4]	1	16.78	Yes
5150-5250	n(HT40)	5190-5230	38-46 [2]	1	16.76	Yes
5150-5250	ac(VHT20)	5180-5240	36-48 [4]	1	16.82	Yes
5150-5250	ac(VHT40)	5190-5230	38-46 [2]	1	16.77	Yes
5150-5250	ac(VHT80)	5210	42 [1]	1	12.15	Yes

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: RF output power specifies that Maximum Peak Conducted Output Power for ac(VHT80) only.
Note 3: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
Note 4: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
Note 5: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.2 Antenna Information

Antenna Category		
☐	Equipment placed on the market without antennas	
☒	Integral antenna (antenna permanently attached)	
	☒	Temporary RF connector provided
	☐	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
☐	External antenna (dedicated antennas)	
	☐	Single power level with corresponding antenna(s).
	☐	Multiple power level and corresponding antenna(s).
	☐	RF connector provided
		☐ Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type…)
		☐ Standard antenna connector. (e.g., SMA, N, BNC, and TNC type…)

Antenna General Information				
No.	**Ant. Cat.**	**Ant. Type**	**Connector**	**Gain (dBi)**
1	Integral	Printed	UFL	2.9

1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	☐ Production ; ☒ Pre-Production ; ☐ Prototype

Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: …
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: …
☐	Other:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
☐ Operated normally mode for worst duty cycle	
☒ Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	**Power Duty Factor [dB] – (10 log 1/x)**
☒ 98.96% - IEEE 802.11a	0.05
☒ 98.32% - IEEE 802.11n (HT20)	0.07
☒ 98.83% - IEEE 802.11n (HT40)	0.05
☒ 99.37% - IEEE 802.11ac (VHT20)	0.03
☒ 98.79% - IEEE 802.11ac (VHT40)	0.05
☒ 98.21% - IEEE 802.11ac (VHT80)	0.08

1.1.5 EUT Operational Condition

Supply Voltage	☒ AC mains	☐ DC	
Type of DC Source	☐ Internal DC supply	☐ External DC adapter	☐ Battery
Test Voltage	☒ Vnom (110 V)	☒ Vmax (126.5 V)	☒ Vmin (93.5 V)
Test Climatic	☒ Tnom (20°C)	☒ Tmax (50°C)	☒ Tmin (-20°C)

1.1.6 Table for Product Listing

No.	Brand Name	Model Name	Product Name	Descriptions
1	NETGEAR	R6100	R6100 WiFi Router	2.4G, 2T2R 5.0G, 2T2R
2	NETGEAR	R6000	R6000 WiFi Router	2.4G, 2T2R 5.0G, 1T1R

Note: Both models are with the same hardware. Difference of 5GHz chain function is using software setting not by hardware modified. Both models are tested separately and recorded in the report.

1.2 Accessories and Support Equipment

Accessories					
No.	**Equipment**	**Brand Name**	**Model Name**	**P/N**	**Spec.**
1	Adapter 1	NETGEAR	AD817F20	332-10307-02	I/P:100-240Vac, 50~60Hz, 0.56A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
2	Adapter 2	NETGEAR	SAL018F1 NA	332-10375-01	I/P:100-120Vac, 47~63Hz, 0.6A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
3	Adapter 3	NETGEAR	MU18-D120150-A1	332-10268-01	I/P:100-240Vac, 50~60Hz, 0.6A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
4	Adapter 4	NETGEAR	AD817F10	332-10301-02	I/P:100-120Vac, 50~60Hz, 0.56A O/P:12Vdc, 1.5A Power cord: 1.85m non-shielded cable w/o core
5	RJ45 Cable	---	---	---	1.5m shielded cable w/o core

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**Serial No.**
1	Notebook	DELL	E5420	DoC
2	Notebook	DELL	E5420	DoC
3	USB Flash	Transcend	JetFlash V85	---

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 789033
- FCC KDB 662911
- FCC KDB 412172

1.4 Testing Location Information

Testing Location			
☒	HWA YA	ADD :	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
		TEL :	886-3-327-3456 FAX : 886-3-327-0973

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Ian Du	22.7°C / 61.5%	Apr. 15, 2013
AC Conduction	CO04-HY	Bill Hsiao	21°C / 52%	Apr. 19, 2013
Radiated Emission	03CH05-HY	Sam Chang	25°C / 65%	Mar. 20 ~ Apr. 18, 2013
Test site registered number [643075] with FCC Test site registered number [4086B-1] with IC				

1.5 Measurement Uncertainty

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

Measurement Uncertainty			
Test Item		Uncertainty	Limit
AC power-line conducted emissions		±2.26 dB	N/A
Emission bandwidth		±1.42 %	N/A
RF output power, conducted		±0.63 dB	N/A
Power density, conducted		±0.81 dB	N/A
Unwanted emissions, conducted	30 – 1000 MHz	±0.51 dB	N/A
	1 – 18 GHz	±0.67 dB	N/A
	18 – 40 GHz	±0.83 dB	N/A
	40 – 200 GHz	N/A	N/A
All emissions, radiated	30 – 1000 MHz	±2.56 dB	N/A
	1 – 18 GHz	±3.59 dB	N/A
	18 – 40 GHz	±3.82 dB	N/A
	40 – 200 GHz	N/A	N/A
Temperature		±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages		±3 %	N/A
Time		±1.42 %	N/A
Duty Cycle		±1.42 %	N/A

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing (5150-5250MHz)			
Modulation Mode	**Transmit Chains (N_{TX})**	**Data Rate / MCS**	**Worst Data Rate / MCS**
For model: R6100			
11a	2	6-54Mbps	6 Mbps
HT20	2	M0-15	M0
HT40	2	M0-15	M0
VHT20	2	M0-9	M0
VHT40	2	M0-9	M0
VHT80	2	M0-9	M0
For model: R6000			
11a	1	6-54Mbps	6 Mbps
HT20	1	M0-7	M0
HT40	1	M0-7	M0
VHT20	1	M0-9	M0
VHT40	1	M0-9	M0
VHT80	1	M0-9	M0

Note 1: Modulation modes consist of below configuration:
11a: IEEE 802.11a, HT20/HT40: IEEE 802.11n, VHT20/VHT40/VHT80: IEEE 802.11ac
Note 2: IEEE Std. 802.11n/ac modulation consists of HT20, HT40, VHT20, VHT40, VHT80 and VHT160. Then EUT support HT20, HT40, VHT20, VHT40 and VHT80.

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250 MHz band)							
Test Software Version	CART V4.9						
For model: R6100							
Modulation Mode	**N_{TX}**	**Test Frequency (MHz)**					
		NCB: 20MHz			**NCB: 40MHz**		**NCB: 80MHz**
		5180	**5200**	**5240**	**5190**	**5230**	**5210**
11a,6-54Mbps	2	13.5	13.5	13.5	-	-	-
HT20,M0-15	2	13.5	13.5	13.5	-	-	-
HT40,M0-15	2	-	-	-	14.5	14.5	-
VHT20,M0-9	2	13.5	13.5	13.5	-	-	-
VHT40,M0-9	2	-	-	-	14.5	14.5	-
VHT80,M0-9	2	-	-	-	-	-	12.5
For model: R6000							
Modulation Mode	**N_{TX}**	**Test Frequency (MHz)**					
		NCB: 20MHz			**NCB: 40MHz**		**NCB: 80MHz**
		5180	**5200**	**5240**	**5190**	**5230**	**5210**
11a,6-54Mbps	1	16	16	16	-	-	-
HT20,M0-7	1	16.5	16.5	16.5	-	-	-
HT40,M0-7	1	-	-	-	17	17	-
VHT20,M0-9	1	16.5	16.5	16.5	-	-	-
VHT40,M0-9	1	-	-	-	17	17	-
VHT80,M0-9	1	-	-	-	-	-	13

2.3 The Worst Case Measurement Configuration

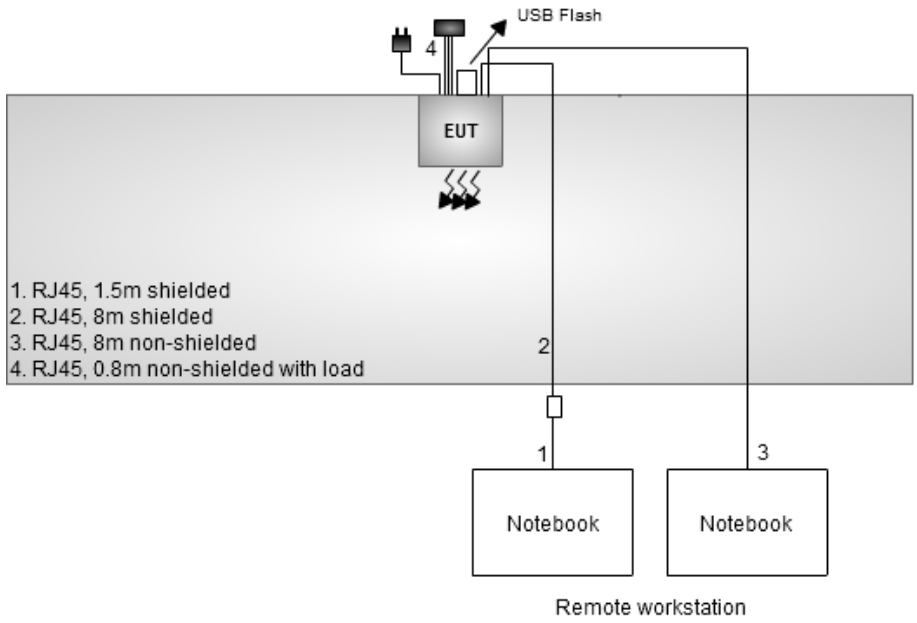
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN), Model R6100, Adapter 2
2	AC Power & Radio link (WLAN), Model R6000, Adapter 2
Note: Adapter 1, adapter 2, adapter 3 and adapter 4 had been pretested and found that the adapter 2 was the worst case and was selected for final test.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion
Test Condition	Conducted measurement at transmit chains
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN), Model R6100, Adapter 2
2	AC Power & Radio link (WLAN), Model R6000, Adapter 2

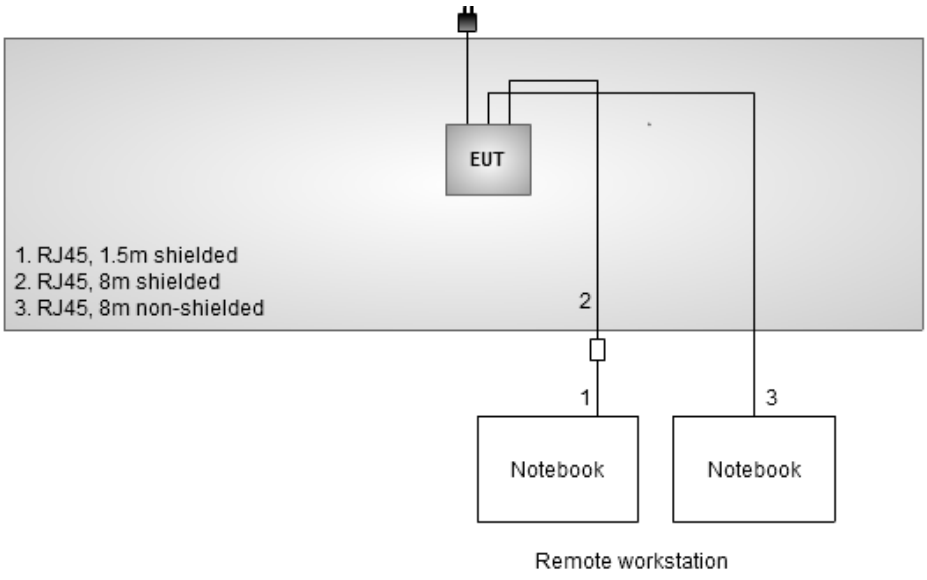
The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	☒ EUT will be placed in fixed position.		
	☐ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst plane is X.		
	☐ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes. The worst plane is X.		
Operating Mode < 1GHz	☒ 1. AC Power & Radio link (WLAN), Model R6100, Adapter 2		
	☒ 2. AC Power & Radio link (WLAN), Model R6000, Adapter 2		
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Note: Adapter 1, adapter 2, adapter 3 and adapter 4 had been pretested and found that the adapter 2 was the worst case and was selected for final test.			

2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission & Radiated Below 1GHz Test



Test Setup Diagram - Radiated Above 1GHz Test



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

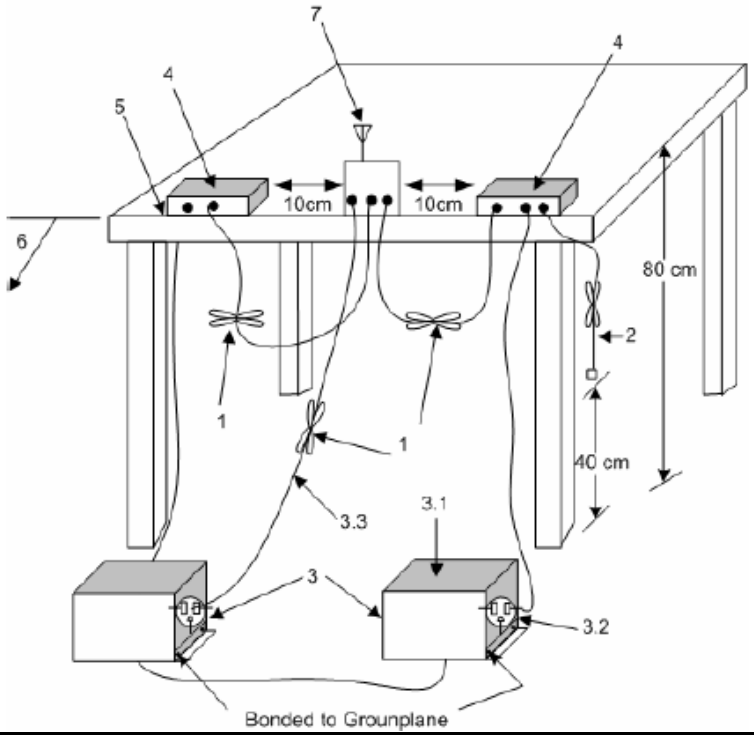
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

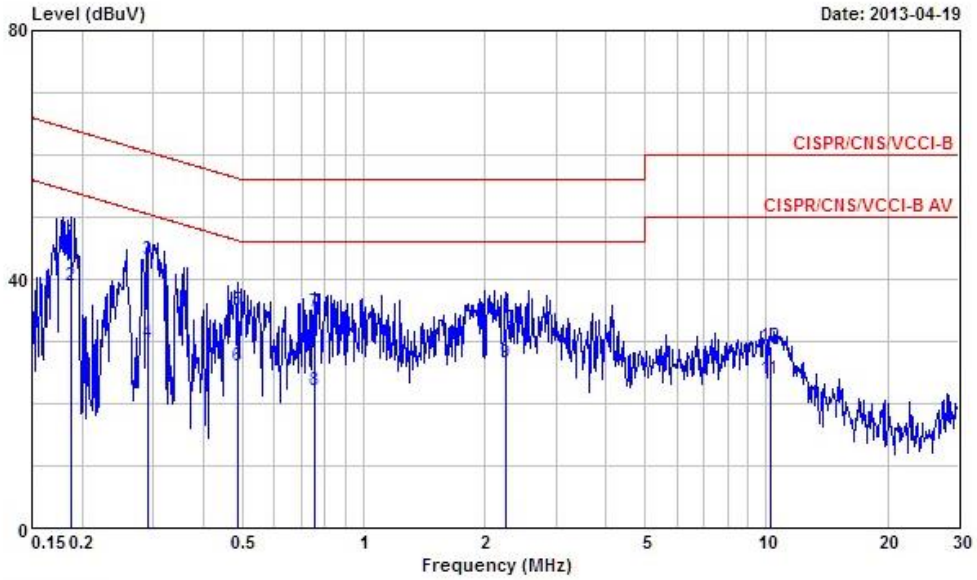
3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

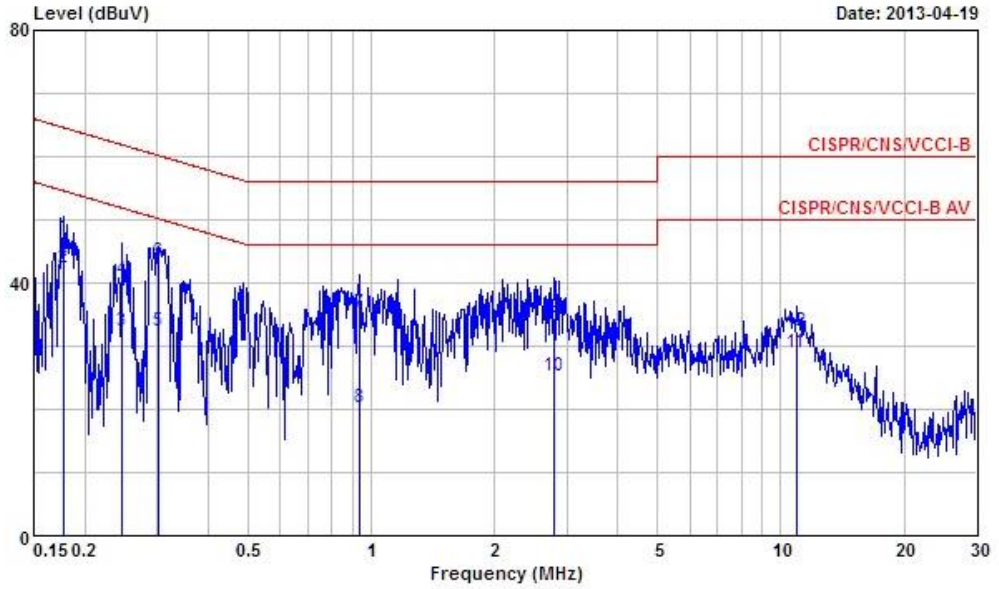
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	AC Power & Radio link (WLAN), Model R6100, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1873850	45.94	-18.21	64.15	45.49	0.11	0.34	QP
2	@0.1873850	38.83	-15.32	54.15	38.38	0.11	0.34	Average
3	0.2924290	43.13	-17.33	60.46	42.68	0.10	0.35	QP
4	0.2924290	29.78	-20.68	50.46	29.33	0.10	0.35	Average
5	0.4889010	35.06	-21.13	56.19	34.58	0.10	0.38	QP
6	0.4889010	26.12	-20.07	46.19	25.64	0.10	0.38	Average
7	0.7549280	34.84	-21.16	56.00	34.40	0.11	0.33	QP
8	0.7549280	22.04	-23.96	46.00	21.60	0.11	0.33	Average
9	2.260	26.65	-19.35	46.00	26.14	0.13	0.38	Average
10	2.260	32.12	-23.88	56.00	31.61	0.13	0.38	QP
11	10.230	24.08	-25.92	50.00	23.54	0.24	0.30	Average
12	10.230	29.15	-30.85	60.00	28.61	0.24	0.30	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

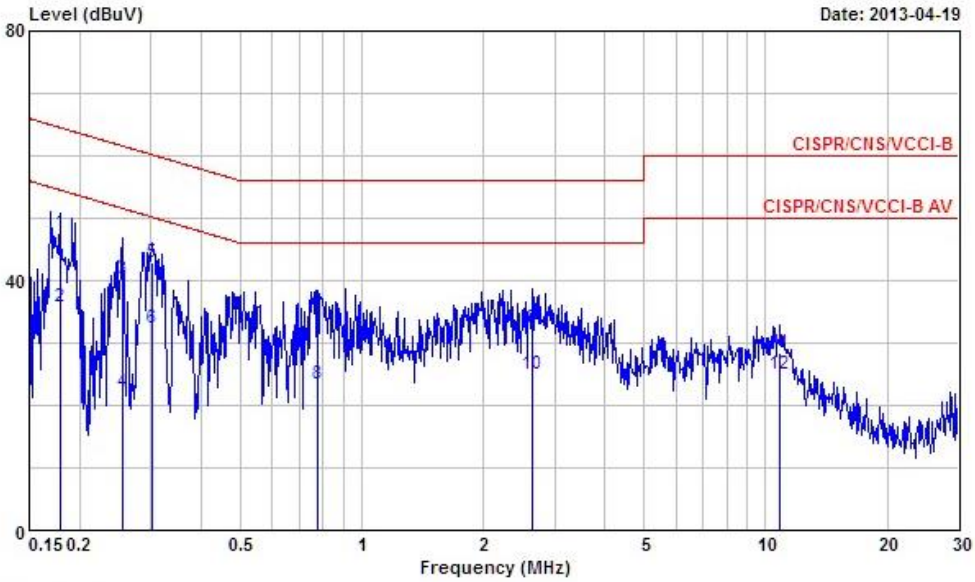
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	AC Power & Radio link (WLAN), Model R6100, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1777150	47.12	-17.47	64.59	46.52	0.23	0.37	QP
2	@0.1777150	42.49	-12.10	54.59	41.89	0.23	0.37	Average
3	0.2468240	32.41	-19.45	51.86	31.85	0.23	0.33	Average
4	0.2468240	40.54	-21.32	61.86	39.98	0.23	0.33	QP
5	0.3034790	32.35	-17.80	50.15	31.77	0.22	0.36	Average
6	0.3034790	43.36	-16.79	60.15	42.78	0.22	0.36	QP
7	0.9331400	35.38	-20.62	56.00	34.84	0.23	0.31	QP
8	0.9331400	20.26	-25.74	46.00	19.72	0.23	0.31	Average
9	2.790	34.37	-21.63	56.00	33.75	0.27	0.35	QP
10	2.790	25.26	-20.74	46.00	24.64	0.27	0.35	Average
11	10.900	29.02	-20.98	50.00	28.26	0.44	0.32	Average
12	10.900	32.38	-27.62	60.00	31.62	0.44	0.32	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

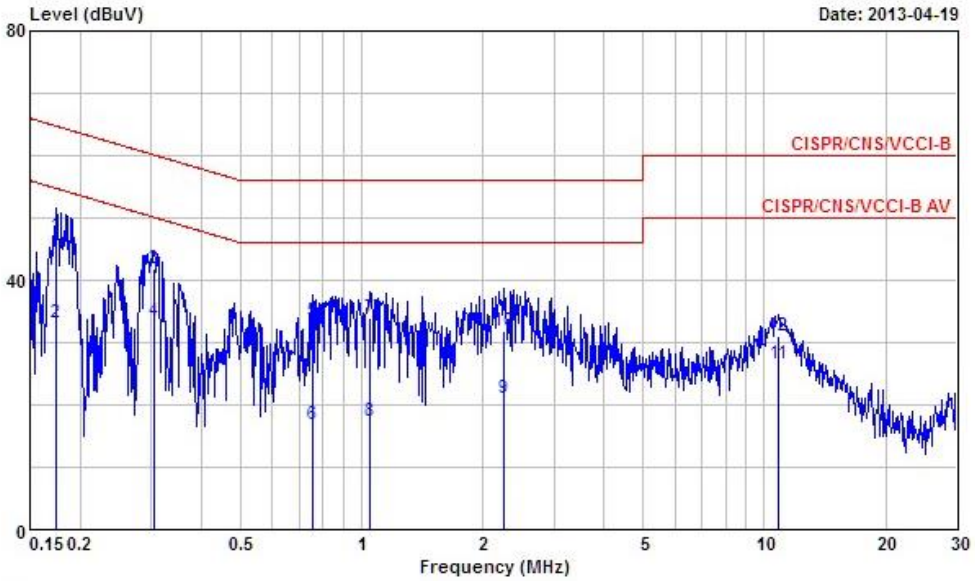
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Neutral
Operating Function	AC Power & Radio link (WLAN), Model R6000, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1786590	47.53	-17.02	64.55	47.05	0.11	0.37	QP
2	0.1786590	35.77	-18.78	54.55	35.29	0.11	0.37	Average
3	0.2547970	40.21	-21.39	61.60	39.77	0.11	0.33	QP
4	0.2547970	22.20	-29.40	51.60	21.76	0.11	0.33	Average
5	0.3034790	42.90	-17.25	60.15	42.44	0.10	0.36	QP
6	0.3034790	32.40	-17.75	50.15	31.94	0.10	0.36	Average
7	0.7751940	34.46	-21.54	56.00	34.02	0.11	0.33	QP
8	0.7751940	23.51	-22.49	46.00	23.07	0.11	0.33	Average
9	2.650	32.34	-23.66	56.00	31.84	0.14	0.36	QP
10	2.650	24.95	-21.05	46.00	24.45	0.14	0.36	Average
11	10.850	28.50	-31.50	60.00	27.93	0.25	0.32	QP
12	10.850	25.07	-24.93	50.00	24.50	0.25	0.32	Average

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Line
Operating Function	AC Power & Radio link (WLAN), Model R6000, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1739880	47.19	-17.58	64.77	46.58	0.23	0.38	QP
2	0.1739880	33.26	-21.51	54.77	32.65	0.23	0.38	Average
3	0.3050910	41.95	-18.15	60.10	41.37	0.22	0.36	QP
4	0.3050910	33.34	-16.76	50.10	32.76	0.22	0.36	Average
5	0.7549280	33.52	-22.48	56.00	32.96	0.23	0.33	QP
6	0.7549280	16.78	-29.22	46.00	16.22	0.23	0.33	Average
7	1.050	34.01	-21.99	56.00	33.47	0.23	0.31	QP
8	1.050	17.41	-28.59	46.00	16.87	0.23	0.31	Average
9	2.250	21.10	-24.90	46.00	20.46	0.26	0.38	Average
10	2.250	31.72	-24.28	56.00	31.08	0.26	0.38	QP
11	10.850	26.68	-23.32	50.00	25.92	0.44	0.32	Average
12	10.850	31.10	-28.90	60.00	30.34	0.44	0.32	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, the maximum conducted output power shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.725-5.825 GHz band, the maximum conducted output power shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz
LE-LAN Devices	
☒	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

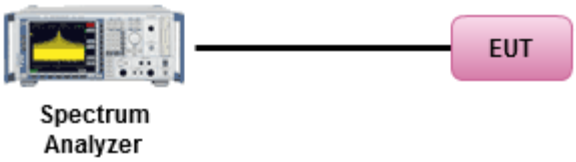
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method			
☒	For the emission bandwidth shall be measured using one of the options below:		
	☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.	
	☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	
	☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.	
☒	For conducted measurement.		
	☒	The EUT supports single transmit chain and measurements performed on this transmit chain.	
	☐	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.	
	☒	The EUT supports multiple transmit chains using options given below:	
		☐	Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.
		☒	Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.

3.2.4 Test Setup

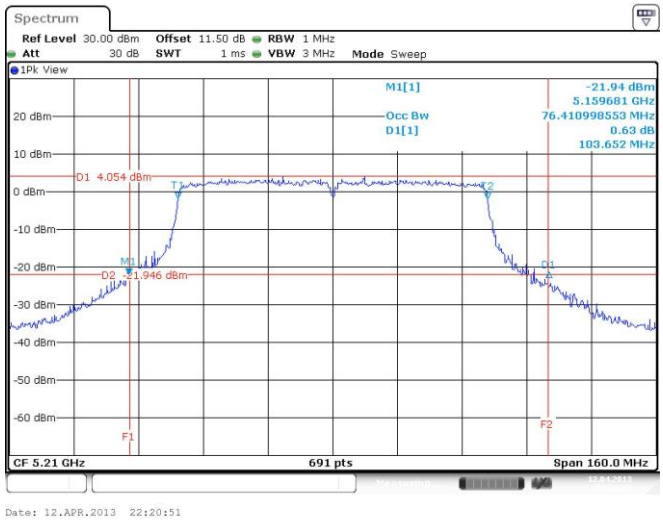
Emission Bandwidth
 Spectrum Analyzer

3.2.5 Test Result of Emission Bandwidth

For Model: R6100

UNII Emission Bandwidth Result (5150-5250MHz band)												
Condition			Emission Bandwidth (MHz)									
Modulation Mode	N_{TX}	Freq. (MHz)	99% Bandwidth				26dB Bandwidth				Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5180	17.13	16.96	-	-	24.70	24.29	-	-	16.29	17.00
11a	2	5200	17.13	17.02	-	-	26.14	24.29	-	-	16.31	17.00
11a	2	5240	17.13	17.02	-	-	25.80	23.94	-	-	16.31	17.00
HT20	2	5180	18.18	18.06	-	-	26.14	25.57	-	-	16.57	17.00
HT20	2	5200	18.29	18.06	-	-	26.14	25.33	-	-	16.57	17.00
HT20	2	5240	18.23	18.23	-	-	25.97	26.20	-	-	16.61	17.00
HT40	2	5190	37.40	37.40	-	-	50.90	48.81	-	-	17.00	17.00
HT40	2	5230	37.16	37.40	-	-	49.28	49.86	-	-	17.00	17.00
VHT20	2	5180	18.23	18.06	-	-	25.97	25.68	-	-	16.57	17.00
VHT20	2	5200	18.18	18.23	-	-	26.14	25.80	-	-	16.60	17.00
VHT20	2	5240	18.23	18.00	-	-	25.86	25.51	-	-	16.55	17.00
VHT40	2	5190	37.16	37.05	-	-	50.55	49.16	-	-	17.00	17.00
VHT40	2	5230	37.28	37.05	-	-	49.39	48.23	-	-	17.00	17.00
VHT80	2	5210	76.41	75.95	-	-	103.65	98.55	-	-	17.00	17.00
Result			Complied									

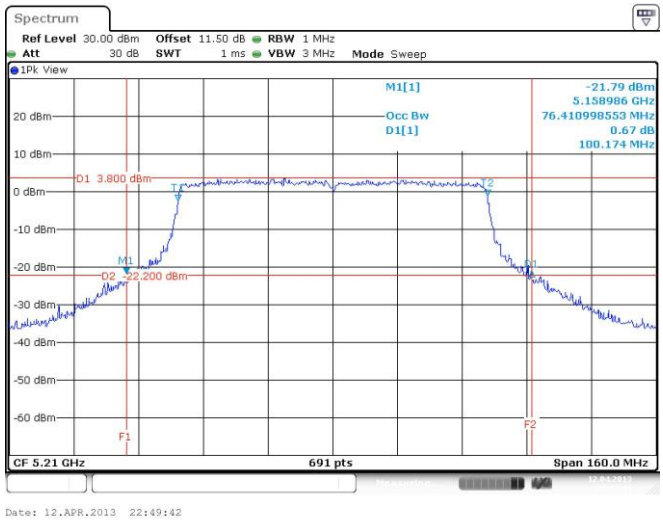
Worst Emission Bandwidth Plots



For Model: R6000

UNII Emission Bandwidth Result (5150-5250MHz band)												
Condition			**Emission Bandwidth (MHz)**									
Modulation Mode	**N_{TX}**	**Freq. (MHz)**	**99% Bandwidth**				**26dB Bandwidth**				**Power Limit**	
			Chain-Port 1	**Chain-Port 2**	**Chain-Port 3**	**Chain-Port 4**	**Chain-Port 1**	**Chain-Port 2**	**Chain-Port 3**	**Chain-Port 4**	**99% BW**	**26dB BW**
11a	1	5180	17.08	-	-	-	25.10	-	-	-	16.32	17.00
11a	1	5200	17.13	-	-	-	25.57	-	-	-	16.34	17.00
11a	1	5240	17.08	-	-	-	25.86	-	-	-	16.32	17.00
HT20	1	5180	18.18	-	-	-	26.14	-	-	-	16.60	17.00
HT20	1	5200	18.29	-	-	-	26.09	-	-	-	16.62	17.00
HT20	1	5240	18.18	-	-	-	26.14	-	-	-	16.60	17.00
HT40	1	5190	37.16	-	-	-	50.32	-	-	-	17.00	17.00
HT40	1	5230	37.38	-	-	-	49.51	-	-	-	17.00	17.00
VHT20	1	5180	18.12	-	-	-	26.20	-	-	-	16.58	17.00
VHT20	1	5200	18.18	-	-	-	26.03	-	-	-	16.60	17.00
VHT20	1	5240	18.18	-	-	-	26.09	-	-	-	16.60	17.00
VHT40	1	5190	37.16	-	-	-	49.74	-	-	-	17.00	17.00
VHT40	1	5230	37.28	-	-	-	49.28	-	-	-	17.00	17.00
VHT80	1	5210	76.41	-	-	-	100.17	-	-	-	17.00	17.00
Result			**Complied**									

Worst Emission Bandwidth Plots



3.3 RF Output Power

3.3.1 RF Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.725-5.825 GHz band:
	☐ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	☐ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 23 dBi, then P_{Out} = 30 – (G_{TX} – 23).
LE-LAN Devices	
☒	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	☐ Point-to-multipoint systems (P2M): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	☐ Point-to-point systems (P2P): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If e.i.r.p. > 36 dBm, $G_{TX} \leq P_{Out}$
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

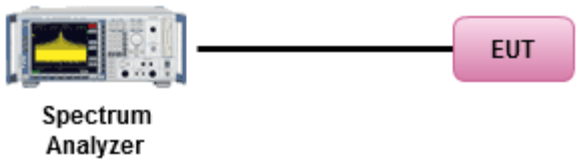
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
☒	Maximum Conducted Output Power
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☒ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) For 11ac VHT80 mode
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter). For all modes except 11ac VHT80
☒	For conducted measurement.
	☒ The EUT supports single transmit chain and measurements performed on this transmit chain.
	☐ The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
	☒ The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	☒ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Spectrum Analyzer) , for 11ac VHT80


RF Output Power (Power Meter) , for all modes except 11ac VHT80


3.3.5 Directional Gain for Power Measurement

For model: R6100

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G_{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS}**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.9	1	1	-	-
11a,6-54Mbps	2.9	2	1	-	-
HT20,M0-7	2.9	1	1	-	-
HT20,M0-15	2.9	2	2	-	-
HT40,M0-7	2.9	1	1	-	-
HT40,M0-15	2.9	2	2	-	-
VHT20,M0-9	2.9	1	1	-	-
VHT20,M0-9	2.9	2	2	-	-
VHT40,M0-9	2.9	1	1	-	-
VHT40,M0-9	2.9	2	2	-	-
VHT80,M0-9	2.9	1	1	-	-
VHT80,M0-9	2.9	2	2	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}

Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10})/N_{TX}]$

Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.

Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

For model: R6000

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G_{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS}**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.9	1	1	-	-
HT20,M0-7	2.9	1	1	-	-
HT40,M0-7	2.9	1	1	-	-
VHT20,M0-9	2.9	1	1	-	-
VHT40,M0-9	2.9	1	1	-	-
VHT80,M0-9	2.9	1	1	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}
Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10})/N_{TX}]$
Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.
Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

3.3.6 Test Result of Maximum Peak Conducted Output Power

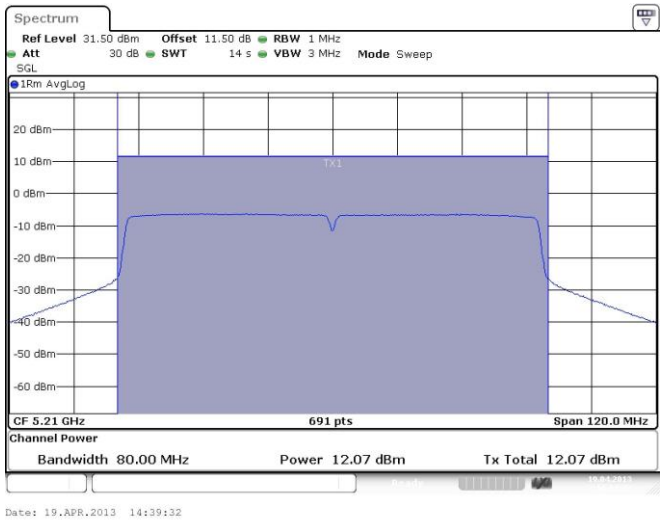
For Model: R6100

Maximum Peak Conducted Output Power Result												
Condition			RF Output Power (dBm)									
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1 w/o Duty Factor (dB)	Chain Port 2 w/o Duty Factor (dB)	Duty Factor (dB)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
VHT80	2	5210	11.80	11.64	0.08	11.88	11.72	14.81	17	2.9	17.71	23
Result			Complied									

For Model: R6000

Maximum Peak Conducted Output Power Result												
Condition			RF Output Power (dBm)									
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1 w/o Duty Factor (dB)	Chain Port 2 w/o Duty Factor (dB)	Duty Factor (dB)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
VHT80	1	5210	12.07	-	0.08	12.15	-	12.15	17	2.9	15.05	23
Result			Complied									

Worst RF Output Power Plots



Note 1: RF Output Power Plots w/o Duty Factor

3.3.7 Test Result of Maximum Conducted Output Power

For Model: R6100

Maximum Conducted Output Power (5150-5250MHz band)											
Condition			RF Output Power (dBm)								
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5180	13.59	13.34	-	-	16.48	17.0	2.9	19.38	23.00
11a	2	5200	13.49	13.39	-	-	16.45	17.0	2.9	19.35	23.00
11a	2	5240	13.42	13.41	-	-	16.43	17.0	2.9	19.33	23.00
HT20	2	5180	13.44	13.38	-	-	16.42	17.0	2.9	19.32	23.00
HT20	2	5200	13.42	13.35	-	-	16.40	17.0	2.9	19.30	23.00
HT20	2	5240	13.31	13.46	-	-	16.40	17.0	2.9	19.30	23.00
HT40	2	5190	13.94	13.91	-	-	16.94	17.0	2.9	19.84	23.00
HT40	2	5230	13.92	13.85	-	-	16.90	17.0	2.9	19.80	23.00
VHT20	2	5180	13.56	13.43	-	-	16.51	17.0	2.9	19.41	23.00
VHT20	2	5200	13.49	13.48	-	-	16.50	17.0	2.9	19.40	23.00
VHT20	2	5240	13.46	13.41	-	-	16.45	17.0	2.9	19.35	23.00
VHT40	2	5190	13.81	13.65	-	-	16.74	17.0	2.9	19.64	23.00
VHT40	2	5230	13.84	13.89	-	-	16.88	17.0	2.9	19.78	23.00
Result			Complied								

For Model: R6000

Maximum Conducted Output Power (5150-5250MHz band)											
Condition			RF Output Power (dBm)								
Modulation Mode	N_{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5180	16.36	-	-	-	16.36	17.0	2.9	19.26	23.00
11a	1	5200	16.29	-	-	-	16.29	17.0	2.9	19.19	23.00
11a	1	5240	16.17	-	-	-	16.17	17.0	2.9	19.07	23.00
HT20	1	5180	16.78	-	-	-	16.78	17.0	2.9	19.68	23.00
HT20	1	5200	16.78	-	-	-	16.78	17.0	2.9	19.68	23.00
HT20	1	5240	16.51	-	-	-	16.51	17.0	2.9	19.41	23.00
HT40	1	5190	16.76	-	-	-	16.76	17.0	2.9	19.66	23.00
HT40	1	5230	16.73	-	-	-	16.73	17.0	2.9	19.63	23.00
VHT20	1	5180	16.82	-	-	-	16.82	17.0	2.9	19.72	23.00
VHT20	1	5200	16.71	-	-	-	16.71	17.0	2.9	19.61	23.00
VHT20	1	5240	16.59	-	-	-	16.59	17.0	2.9	19.49	23.00
VHT40	1	5190	16.77	-	-	-	16.77	17.0	2.9	19.67	23.00
VHT40	1	5230	16.66	-	-	-	16.66	17.0	2.9	19.56	23.00
Result			Complied								

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz. If G_{TX} > 6 dBi, then PPSD = 4 – (G_{TX} – 6).
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.725-5.825 GHz band:
☐	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 17 – (G_{TX} – 6).
☐	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If G_{TX} > 23 dBi, then PPSD = 17 – (G_{TX} – 23).
LE-LAN Devices	
☒	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	For the 5.725-5.825 GHz band, the peak power spectral density (PPSD) ≤ 17 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 23 dBm/MHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

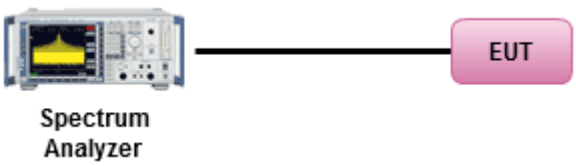
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
☒	Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:
	☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]
	☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). For all modes except 11ac VHT80
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	☒ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) For 11ac VHT80 mode
☒	For conducted measurement.
	☒ The EUT supports single transmit chain and measurements performed on this transmit chain.
	☐ The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
	☒ The EUT supports multiple transmit chains using options given below:
	☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	☐ Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	☒ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
	☒ Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Directional Gain for Power Spectral Density Measurement

For model: R6100

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G_{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS}**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.9	1	1	-	-
11a,6-54Mbps	5.91	2	1	-	-
HT20,M0-7	2.9	1	1	-	-
HT20,M0-15	5.91	2	1	-	-
HT40,M0-7	2.9	1	1	-	-
HT40,M0-15	5.91	2	1	-	-
VHT20,M0-9	2.9	1	1	-	-
VHT20,M0-9	5.91	2	1	-	-
VHT40,M0-9	2.9	1	1	-	-
VHT40,M0-9	5.91	2	1	-	-
VHT80,M0-9	2.9	1	1	-	-
VHT80,M0-9	5.91	2	1	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}

Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10}) / N_{TX}]$

Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.

Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

For model: R6000

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G_{ANT} (dBi)		2.9	2.9	-	-
Modulation Mode	**DG (dBi)**	**N_{TX}**	**N_{SS}**	**STBC**	**Array Gain (dB)**
11a,6-54Mbps	2.9	1	1	-	-
HT20,M0-7	2.9	1	1	-	-
HT40,M0-7	2.9	1	1	-	-
VHT20,M0-9	2.9	1	1	-	-
VHT40,M0-9	2.9	1	1	-	-
VHT80,M0-9	2.9	1	1	-	-

Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$
All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}

Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows:
Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G1/20} + \ldots + 10^{GN/20})^2 / N_{TX}]$
All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G1/10} + \ldots + 10^{GN/10}) / N_{TX}]$

Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$,
where Nss = the number of independent spatial streams data.

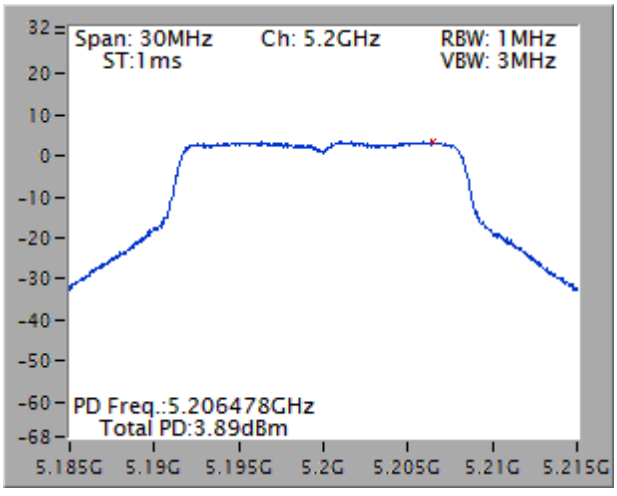
Note 4: For CDD transmissions, directional gain is calculated as power measurements:
Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows:
Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};

3.4.6 Test Result of Peak Power Spectral Density

For Model: R6100

Peak Power Spectral Density Result (5150-5250MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N_{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	2	5180	3.88	4.00	5.91	9.79	10.00
11a	2	5200	3.94	4.00	5.91	9.85	10.00
11a	2	5240	3.92	4.00	5.91	9.83	10.00
HT20	2	5180	3.93	4.00	5.91	9.84	10.00
HT20	2	5200	3.91	4.00	5.91	9.82	10.00
HT20	2	5240	3.94	4.00	5.91	9.85	10.00
HT40	2	5190	0.60	4.00	5.91	6.51	10.00
HT40	2	5230	0.72	4.00	5.91	6.63	10.00
VHT20	2	5180	3.83	4.00	5.91	9.74	10.00
VHT20	2	5200	3.89	4.00	5.91	9.80	10.00
VHT20	2	5240	3.86	4.00	5.91	9.77	10.00
VHT40	2	5190	0.61	4.00	5.91	6.52	10.00
VHT40	2	5230	0.64	4.00	5.91	6.55	10.00
VHT80	2	5210	-4.74	4.00	5.91	1.17	10.00
Result			Complied				

Worst Power Spectral Density Plots

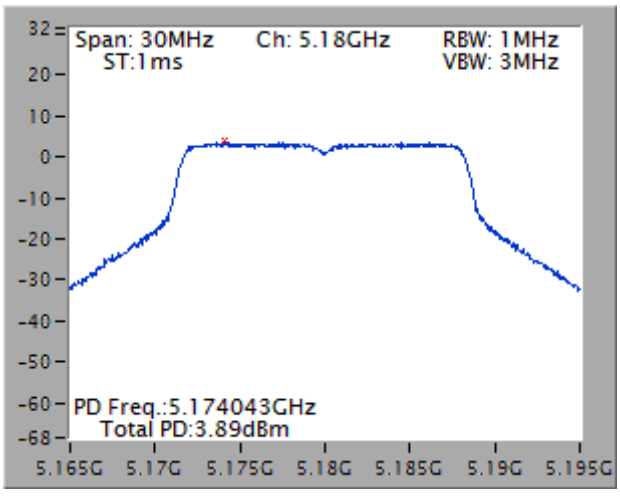


Note 1: Peak Power Spectral Density w/o Duty Factor.

For Model: R6000

Peak Power Spectral Density Result (5150-5250MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N_{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	3.94	4.00	2.90	6.84	10.00
11a	1	5200	3.55	4.00	2.90	6.45	10.00
11a	1	5240	3.48	4.00	2.90	6.38	10.00
HT20	1	5180	3.76	4.00	2.90	6.66	10.00
HT20	1	5200	3.80	4.00	2.90	6.70	10.00
HT20	1	5240	3.59	4.00	2.90	6.49	10.00
HT40	1	5190	0.41	4.00	2.90	3.31	10.00
HT40	1	5230	0.31	4.00	2.90	3.21	10.00
VHT20	1	5180	3.64	4.00	2.90	6.54	10.00
VHT20	1	5200	3.72	4.00	2.90	6.62	10.00
VHT20	1	5240	3.60	4.00	2.90	6.50	10.00
VHT40	1	5190	0.45	4.00	2.90	3.35	10.00
VHT40	1	5230	0.38	4.00	2.90	3.28	10.00
VHT80	1	5210	-7.88	4.00	2.90	-4.98	10.00
Result			Complied				

Worst Power Spectral Density Plots



Note 1: Peak Power Spectral Density w/o Duty Factor.

3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit
UNII Devices
☒ Peak excursion ≤ 13 dB. The ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission does not exceed 13 dB. (Earlier procedures that required computing the ratio of the two spectra at each frequency across the emission bandwidth can lead to unintended failures at band edges and will no longer be required.)
LE-LAN Devices
☒ N/A

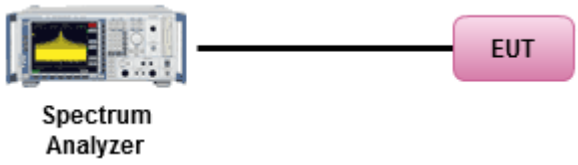
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
☒	Refer as FCC KDB 789033, clause G peak excursion method.
☒	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
☒	For conducted measurement.
☒	Testing a single output port is sufficient to demonstrate compliance with the peak excursion.
☒	Test result plots refer as test report clause 3.3.5 with peak excursion ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum.

3.5.4 Test Setup

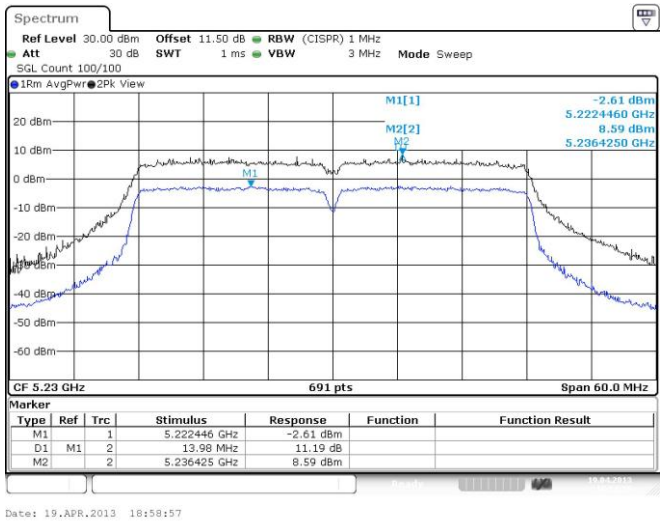
Peak Excursion


3.5.5 Test Result of Peak Excursion

For Model: R6100

UNII Peak Excursion Result								
Condition			Peak Excursion (dB)					
Modulation Mode	N_{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	2	5180	9.66	8.89	8.93	9.28	-	13.0
HT20	2	5180	8.57	9.47	9.84	9.49	-	13.0
HT40	2	5190	8.51	9.35	9.51	9.42	-	13.0
VHT20	2	5180	8.37	8.76	9.41	9.51	9.15	13.0
VHT40	2	5230	8.66	8.79	8.84	10.54	8.89	13.0
VHT80	2	5210	10.16	10.38	10.38	9.86	9.39	13.0
Result			Complied					

Worst Peak Excursion Plots

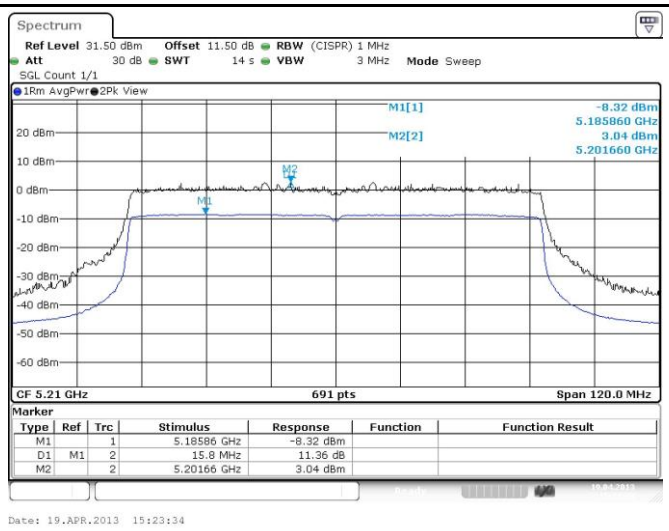


Note 1: Peak excursion = Mark2 value – (Mark 1 value + duty factor)

For Model: R6000

UNII Peak Excursion Result								
Condition			**Peak Excursion (dB)**					
Modulation Mode	**N_{TX}**	**Freq. (MHz)**	**BPSK**	**QPSK**	**16QAM**	**64QAM**	**256QAM**	**Limit**
11a	1	5180	8.15	9.36	8.97	9.72	-	13.0
HT20	1	5180	8.85	9.79	10.00	9.50	-	13.0
HT40	1	5190	8.41	9.00	9.53	9.28	-	13.0
VHT20	1	5180	8.46	9.23	9.74	9.24	9.76	13.0
VHT40	1	5190	8.21	8.88	9.11	9.79	9.40	13.0
VHT80	1	5210	10.39	10.56	10.99	10.23	10.14	13.0
Result			**Complied**					

Worst Power Spectral Density Plots

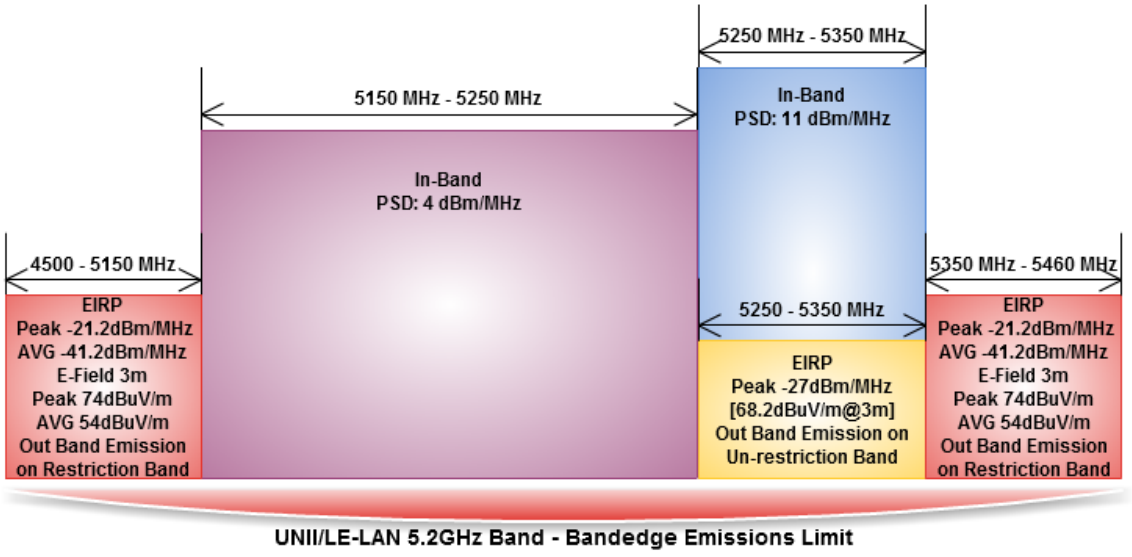


Note 1: Peak excursion = Mark2 value – (Mark 1 value + duty factor)

3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit

Transmitter Radiated Bandedge Emissions Limit for 5.2GHz band: 5.15-5.25 GHz band



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

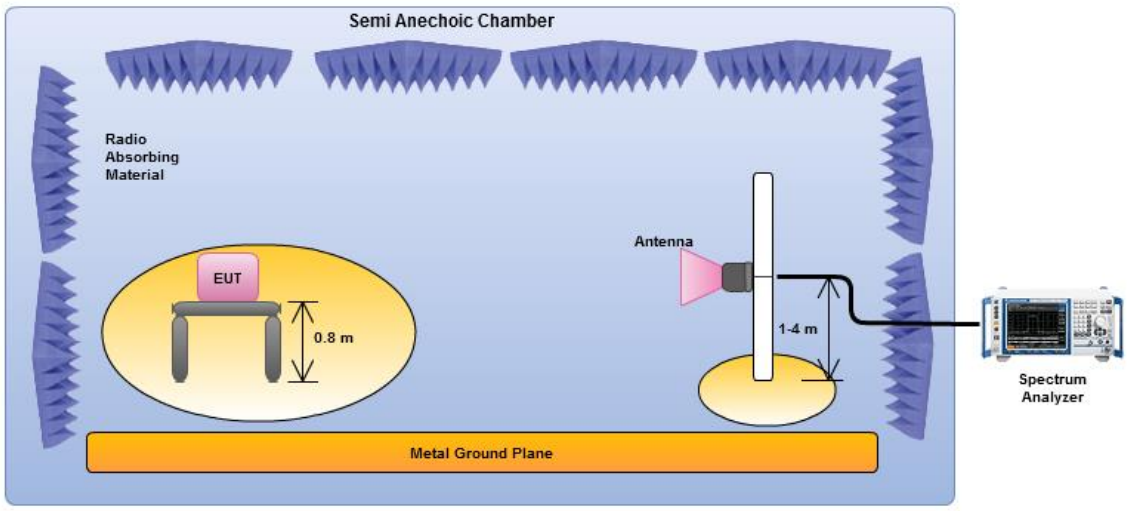
3.6.3 Test Procedures

Test Method		
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.	
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
☒	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
☐	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)	
	☐	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).
	☐	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
☒	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)	
	☐	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).
	☒	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
☒	For the transmitter unwanted emissions shall be measured using following options below:	
	☒	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	☒	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
		☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☐ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☒ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
☒	For the transmitter bandedge emissions shall be measured using following options below:	
	☐	Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	☒	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
	☐	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
☒	For radiated measurement, refer as ANSI C63.10, clause 6.5 for radiated emissions from above 1 GHz.	

Test Method	
☐ For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).	
	☐ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	☐ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

3.6.4 Test Setup

Transmitter Radiated Bandedge Emissions



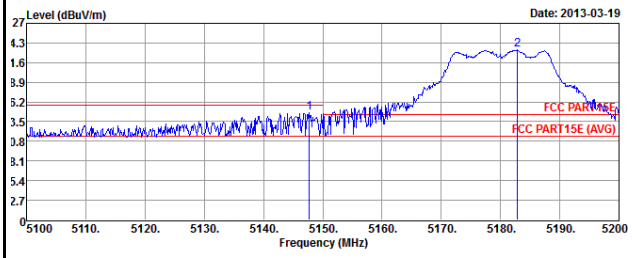
Electric field tests shall be performed in transmitter bandedge emissions using a calibrated horn antenna.

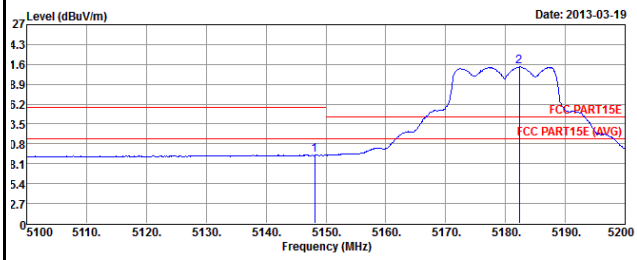
3.6.5 Test Result of Transmitter Radiated Bandedge Emissions

For model: R6100

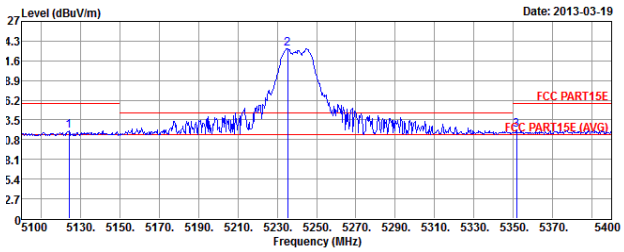
Transmitter Radiated Bandedge Emissions Result								
Modulation	11a		**Restricted Band Emissions**					
Restricted Band (MHz)	**Test Ch. Freq. (MHz)**	**In-band PSD [i] (dBuV/1MHz)**	**RBE Freq. (MHz)**	**Measure Distance (m)**	**Out-Band Level (dBuV/m)**	**Limit (dBuV/m)**	**Level Type**	**Pol. note 1**
4500-5150	5180	109.72	5147.70	3	69.00	74	PK	V
4500-5150	5180	100.00	5148.30	3	43.74	54	AV	V
5350-5460	5240	109.32	5351.70	3	56.97	74	PK	V
5350-5460	5240	99.70	5385.60	3	44.16	54	AV	V

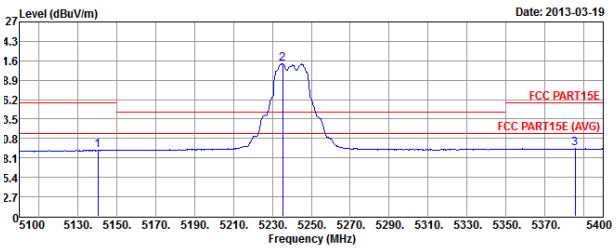
5.2GHz Lower-band (Lowest Ch.)





5.2GHz Higher-band (Highest Ch.)

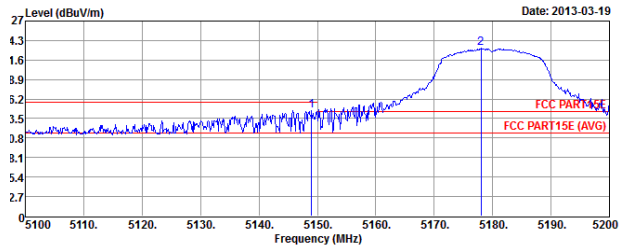




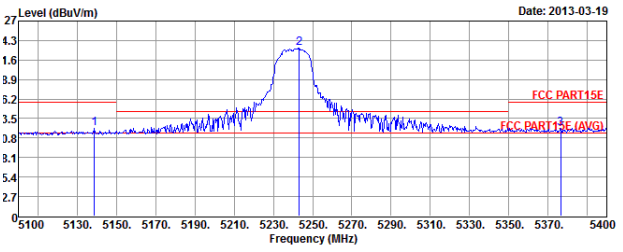
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

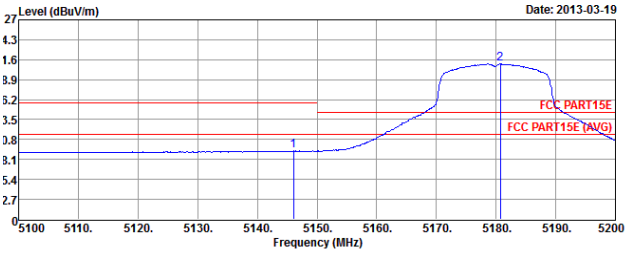
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	109.33	5149.00	3	68.58	74	PK	V
4500-5150	5180	98.87	5146.10	3	43.57	54	AV	V
5350-5460	5240	109.27	5376.60	3	57.39	74	PK	V
5350-5460	5240	99.12	5382.90	3	44.42	54	AV	V

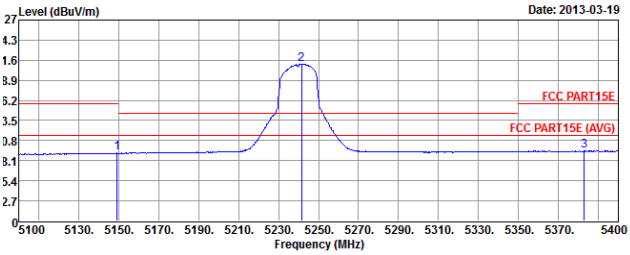
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



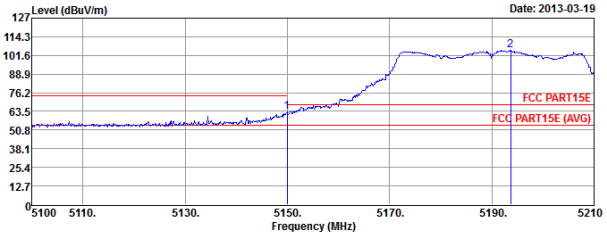




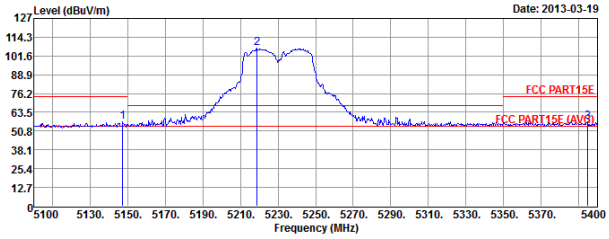
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

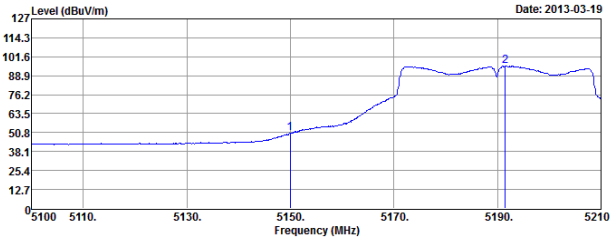
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT40		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5190	105.26	5149.94	3	62.98	74	PK	V
4500-5150	5190	95.53	5149.94	3	50.68	54	AV	V
5350-5460	5230	107.00	5394.90	3	56.98	74	PK	V
5350-5460	5230	96.79	5361.00	3	44.54	54	AV	V

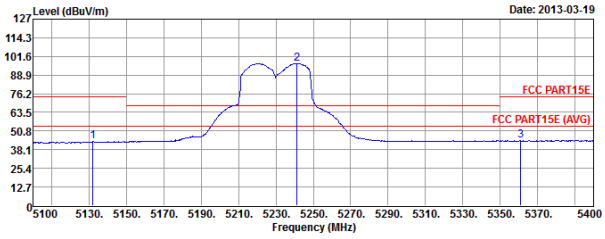
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



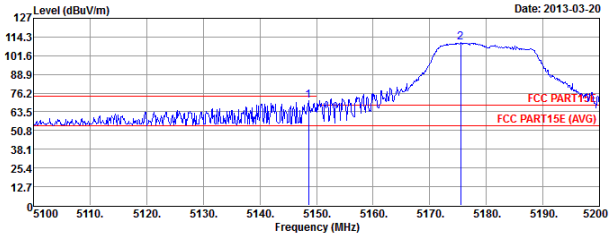




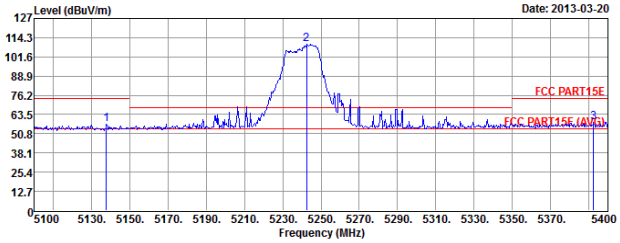
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

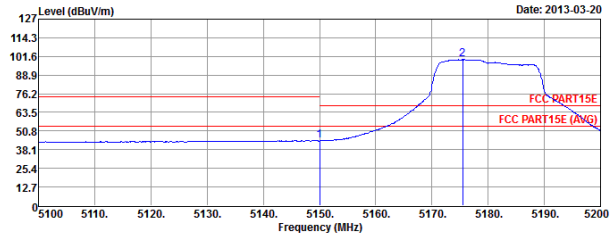
Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	110.43	5148.60	3	71.01	74	PK	V
4500-5150	5180	99.46	5150.00	3	44.33	54	AV	V
5350-5460	5240	109.82	5392.50	3	58.27	74	PK	V
5350-5460	5240	99.46	5396.10	3	45.32	54	AV	V

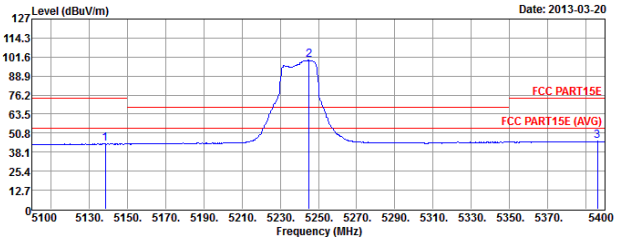
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



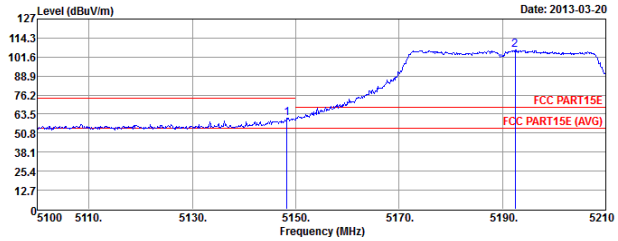




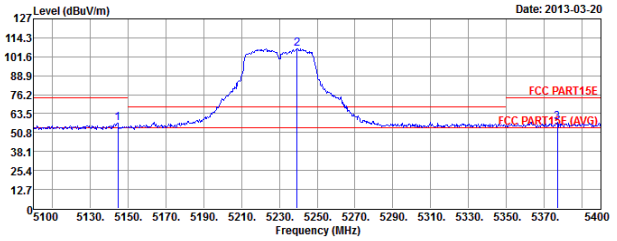
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

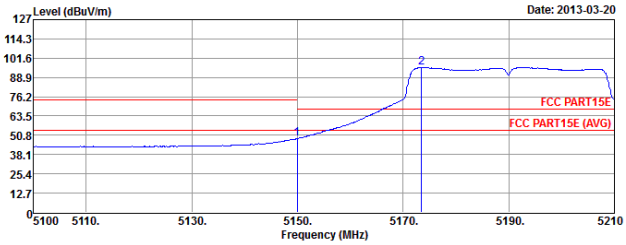
Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT40		**Restricted Band Emissions**					
Restricted Band (MHz)	**Test Ch. Freq. (MHz)**	**In-band PSD [i] (dBuV/1MHz)**	**RBE Freq. (MHz)**	**Measure Distance (m)**	**Out-Band Level (dBuV/m)**	**Limit (dBuV/m)**	**Level Type**	**Pol. note 1**
4500-5150	5190	106.20	5148.29	3	61.01	74	PK	V
4500-5150	5190	95.62	5149.94	3	48.61	54	AV	V
5350-5460	5230	107.07	5376.90	3	57.71	74	PK	V
5350-5460	5230	96.31	5387.70	3	45.35	54	AV	V

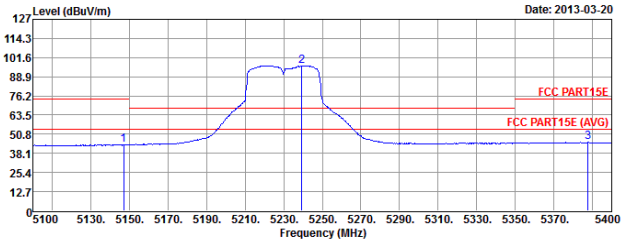
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



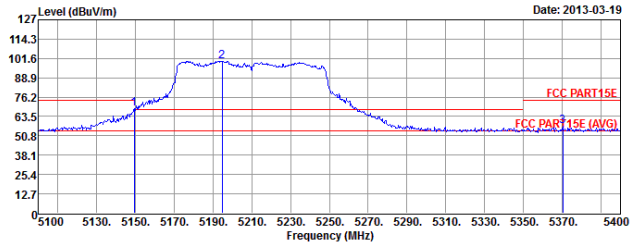




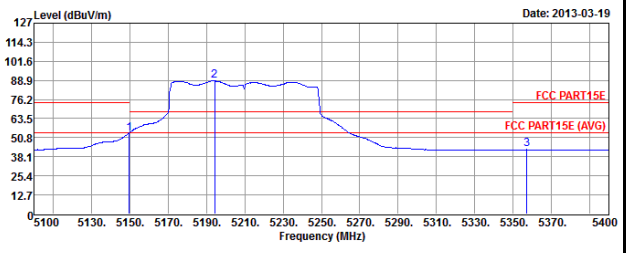
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT80		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5210	99.87	5149.50	3	68.40	74	PK	V
4500-5150	5210	88.50	5149.80	3	53.73	54	AV	V
5350-5460	5210	99.87	5370.40	3	57.08	74	PK	V
5350-5460	5210	88.50	5357.10	3	42.86	54	AV	V

5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)

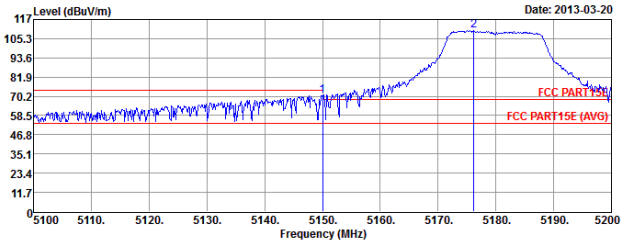


Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

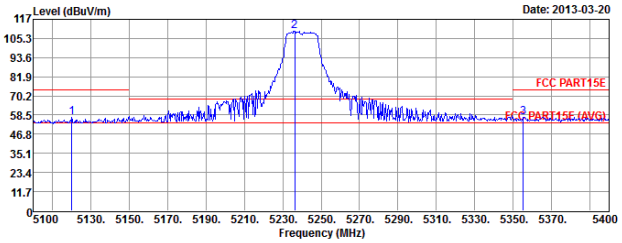
For model: R6000

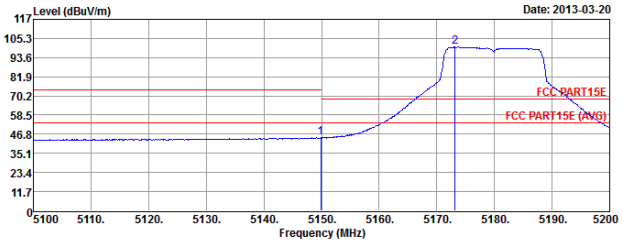
Transmitter Radiated Bandedge Emissions Result								
Modulation	11a		**Restricted Band Emissions**					
Restricted Band (MHz)	**Test Ch. Freq. (MHz)**	**In-band PSD [i] (dBuV/1MHz)**	**RBE Freq. (MHz)**	**Measure Distance (m)**	**Out-Band Level (dBuV/m)**	**Limit (dBuV/m)**	**Level Type**	**Pol. note 1**
4500-5150	5180	110.50	5150.00	3	70.72	74	PK	V
4500-5150	5180	100.41	5149.90	3	44.66	54	AV	V
5350-5460	5240	109.84	5355.30	3	57.17	74	PK	V
5350-5460	5240	99.28	5394.00	3	44.34	54	AV	V

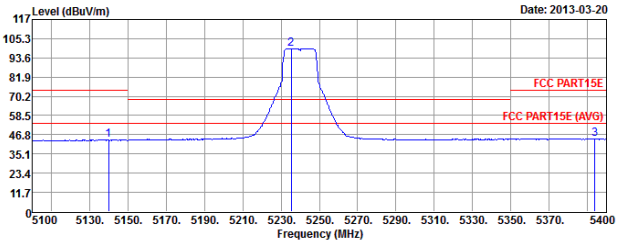
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



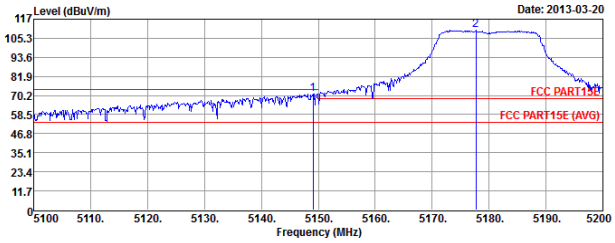




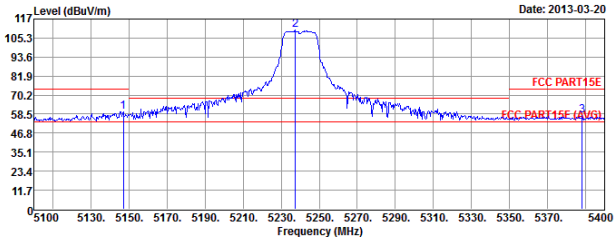
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

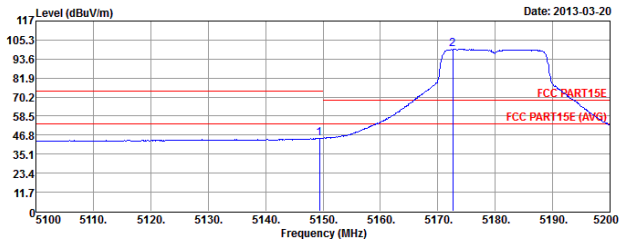
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	110.13	5149.10	3	71.33	74	PK	V
4500-5150	5180	99.62	5149.40	3	45.06	54	AV	V
5350-5460	5240	110.07	5388.30	3	57.48	74	PK	V
5350-5460	5240	99.36	5379.90	3	44.04	54	AV	V

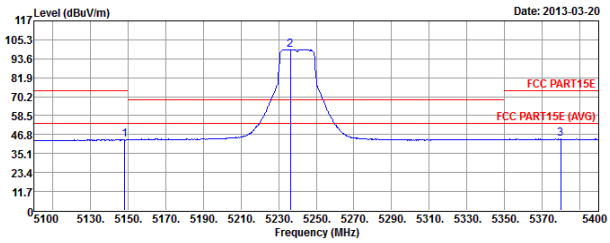
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



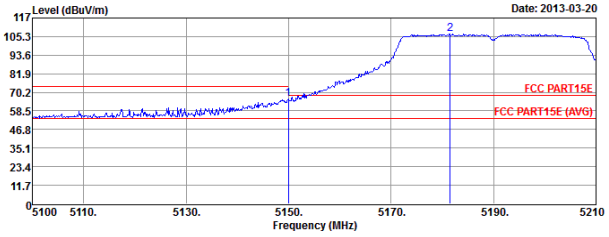




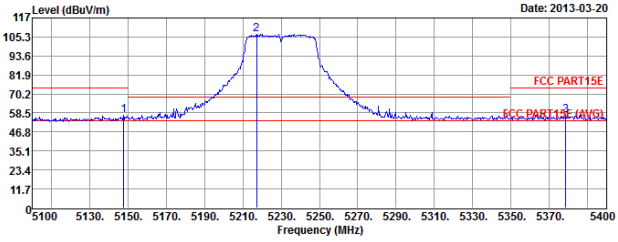
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

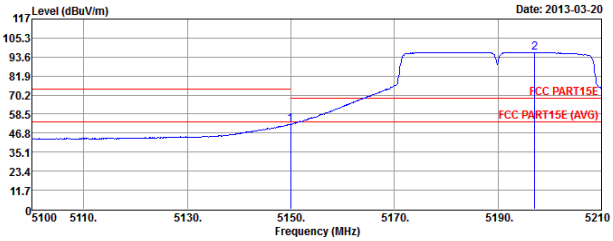
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT40		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5190	107.19	5149.94	3	66.11	74	PK	V
4500-5150	5190	96.52	5149.94	3	52.09	54	AV	V
5350-5460	5230	107.09	5378.70	3	57.13	74	PK	V
5350-5460	5230	96.68	5352.30	3	44.22	54	AV	V

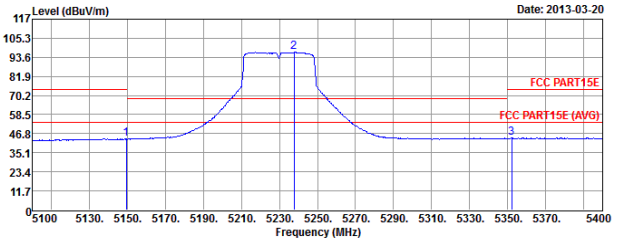
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



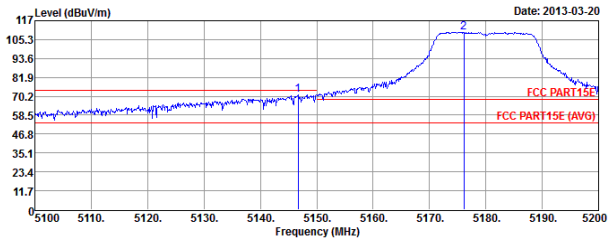




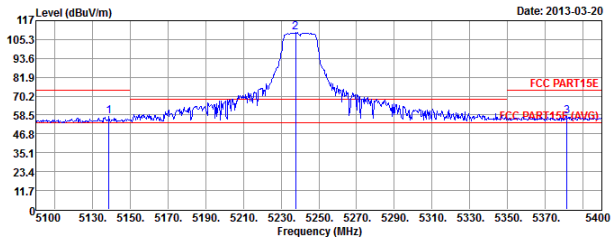
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

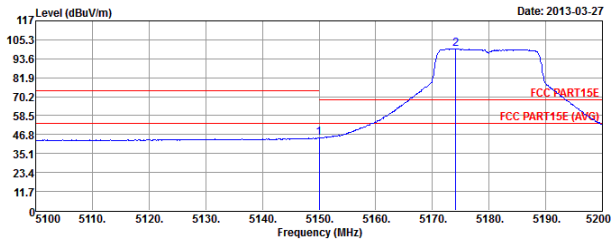
Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT20		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	110.00	5146.70	3	71.13	74	PK	V
4500-5150	5180	99.81	5174.10	3	44.77	54	AV	V
5350-5460	5240	109.62	5381.40	3	57.65	74	PK	V
5350-5460	5240	99.25	5367.00	3	44.43	54	AV	V

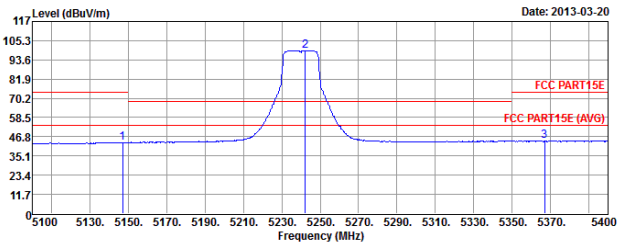
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)



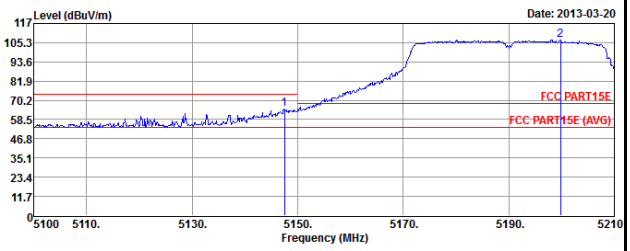




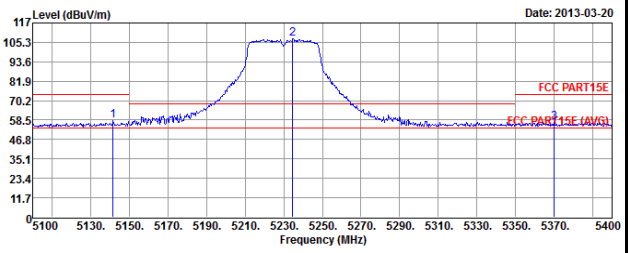
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

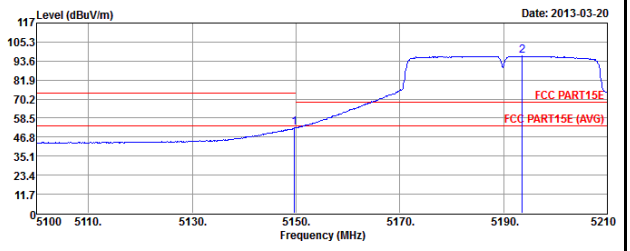
Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT40		Restricted Band Emissions					
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5190	107.15	5147.52	3	64.73	74	PK	V
4500-5150	5190	96.60	5149.72	3	52.38	54	AV	V
5350-5460	5230	107.34	5370.00	3	56.90	74	PK	V
5350-5460	5230	96.36	5363.40	3	44.10	54	AV	V

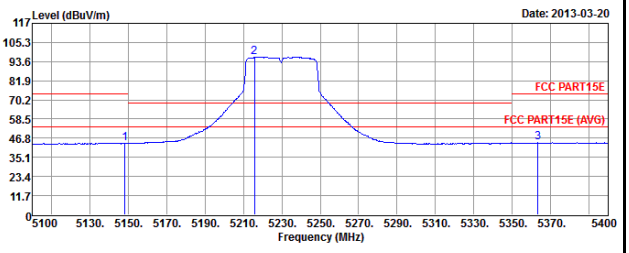
5.2GHz Lower-band (Lowest Ch.)



5.2GHz Higher-band (Highest Ch.)

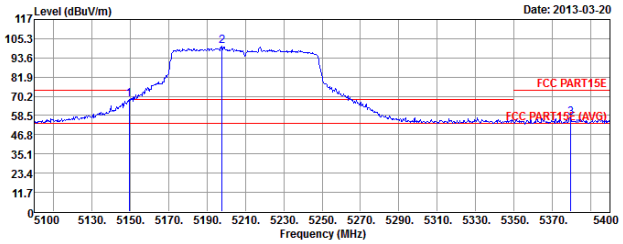
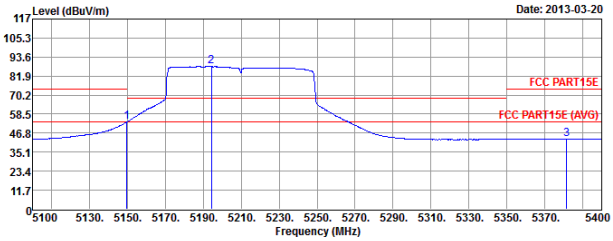






Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

Transmitter Radiated Bandedge Emissions Result								
Modulation	VHT80		**Restricted Band Emissions**					
Restricted Band (MHz)	**Test Ch. Freq. (MHz)**	**In-band PSD [i] (dBuV/1MHz)**	**RBE Freq. (MHz)**	**Measure Distance (m)**	**Out-Band Level (dBuV/m)**	**Limit (dBuV/m)**	**Level Type**	**Pol. note 1**
4500-5150	5210	100.98	5149.50	3	68.49	74	PK	V
4500-5150	5210	87.79	5149.80	3	53.61	54	AV	V
5350-5460	5210	100.98	5379.60	3	57.05	74	PK	V
5350-5460	5210	87.79	5381.40	3	43.22	54	AV	V

5.2GHz Lower-band (Lowest Ch.)	5.2GHz Higher-band (Highest Ch.)
	

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

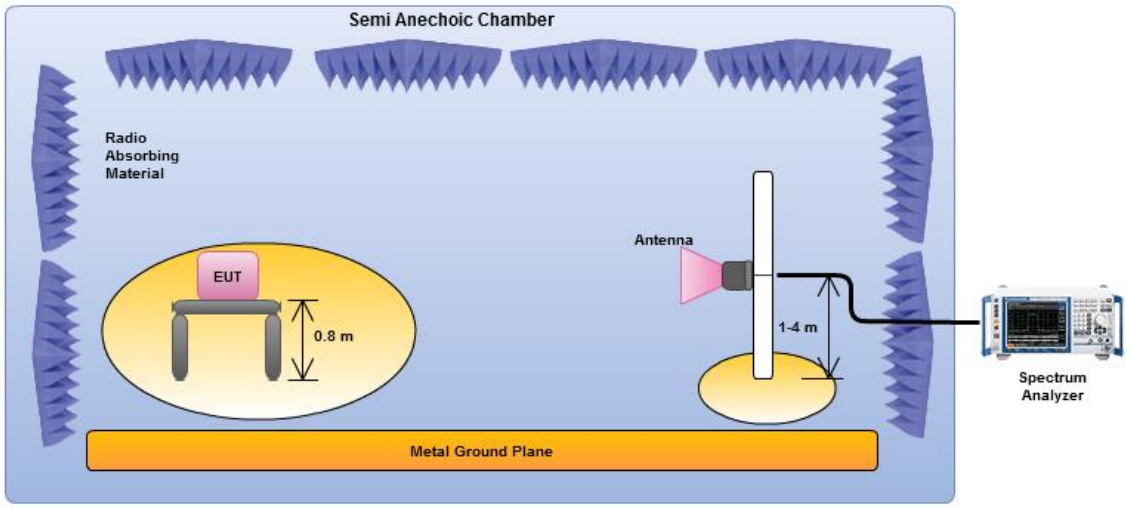
3.7.3 Test Procedures

Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
	☐ Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.
	☐ Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
	☐ Measurements in the frequency range above 18 GHz - 40GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
☒	For the transmitter unwanted emissions shall be measured using following options below:
	☒ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	☒ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☐ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
☒	For radiated measurement.
	☒ Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
	☒ Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
	☒ Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

Test Method	
☐	For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).
	☐ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	☐ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

3.7.4 Test Setup

Transmitter Radiated Unwanted Emissions



Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

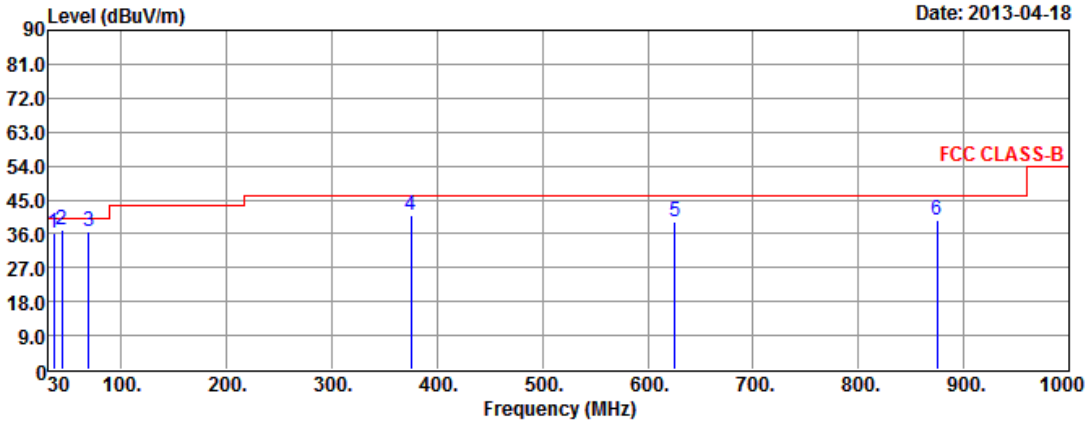
3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

For Model: R6100

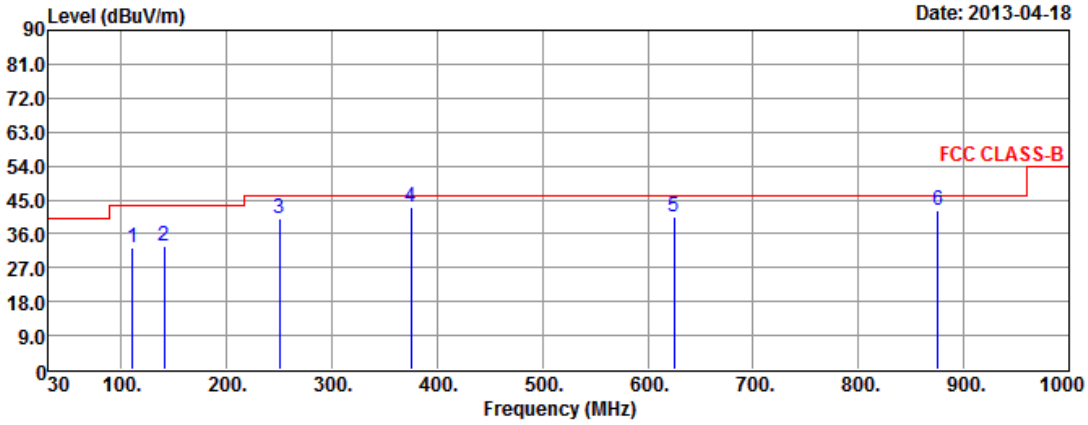
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	1	**Polarization**	V
Operating Function	AC Power & Radio link (WLAN), Model R6100, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.82	36.00	-4.00	40.00	51.06	15.89	0.67	31.62	---	---	QP
2	43.58	36.98	-3.02	40.00	56.60	11.22	0.70	31.54	---	---	QP
3	68.80	36.59	-3.41	40.00	60.98	6.20	0.93	31.52	---	---	Peak
4	375.32	41.03	-4.97	46.00	54.82	15.06	2.16	31.01	---	---	Peak
5	625.58	38.98	-7.02	46.00	46.22	20.56	2.45	30.25	---	---	Peak
6	874.87	39.71	-6.29	46.00	43.50	23.10	2.96	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	1	**Polarization**	H
Operating Function	AC Power & Radio link (WLAN), Model R6100, Adapter 2		

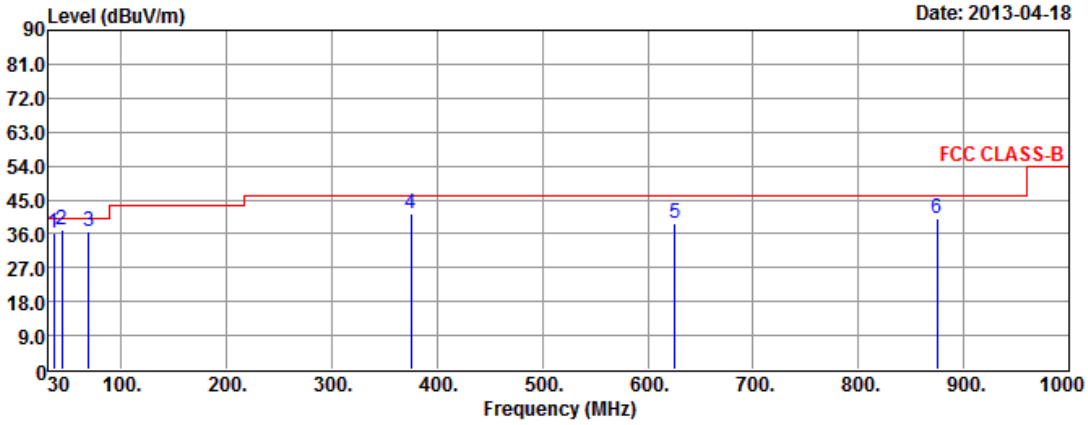


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.51	32.09	-11.41	43.50	51.22	11.26	1.15	31.54	---	---	Peak
2	140.58	32.81	-10.69	43.50	51.55	11.28	1.25	31.27	---	---	Peak
3	250.19	39.87	-6.13	46.00	56.54	12.62	1.61	30.90	---	---	Peak
4	375.32	42.96	-3.04	46.00	56.75	15.06	2.16	31.01	---	---	QP
5	624.61	40.29	-5.71	46.00	47.54	20.55	2.45	30.25	---	---	Peak
6	875.84	42.15	-3.85	46.00	45.93	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

For Model: R6000

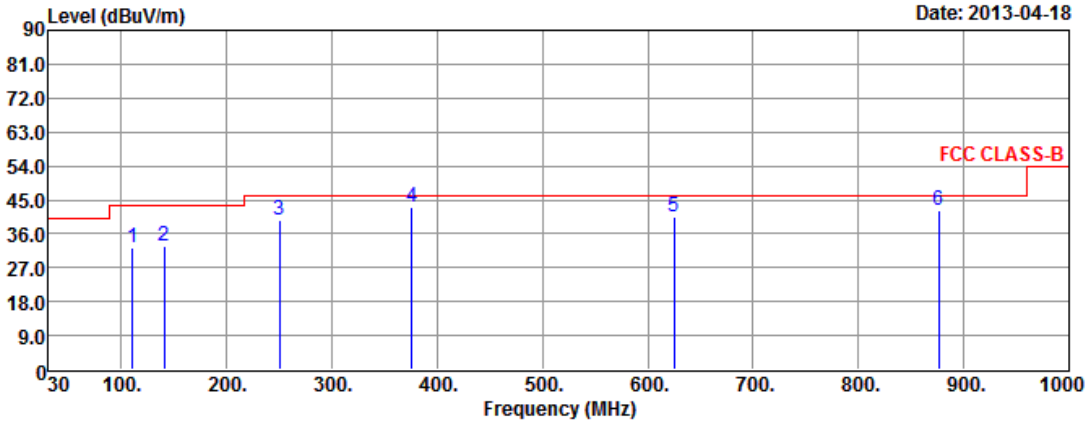
Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	2	**Polarization**	V
Operating Function	AC Power & Radio link (WLAN), Model R6000, Adapter 2		



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.78	36.15	-3.85	40.00	51.18	15.92	0.67	31.62	---	---	QP
2	43.62	36.84	-3.16	40.00	56.47	11.20	0.71	31.54	---	---	QP
3	68.84	36.52	-3.48	40.00	60.90	6.21	0.93	31.52	---	---	Peak
4	375.39	41.15	-4.85	46.00	54.94	15.06	2.16	31.01	---	---	Peak
5	625.64	38.69	-7.31	46.00	45.92	20.56	2.46	30.25	---	---	Peak
6	874.68	39.85	-6.15	46.00	43.64	23.10	2.96	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Transmitter Radiated Unwanted Emissions (Below 1GHz)			
Operating Mode	2	**Polarization**	H
Operating Function	AC Power & Radio link (WLAN), Model R6000, Adapter 2		



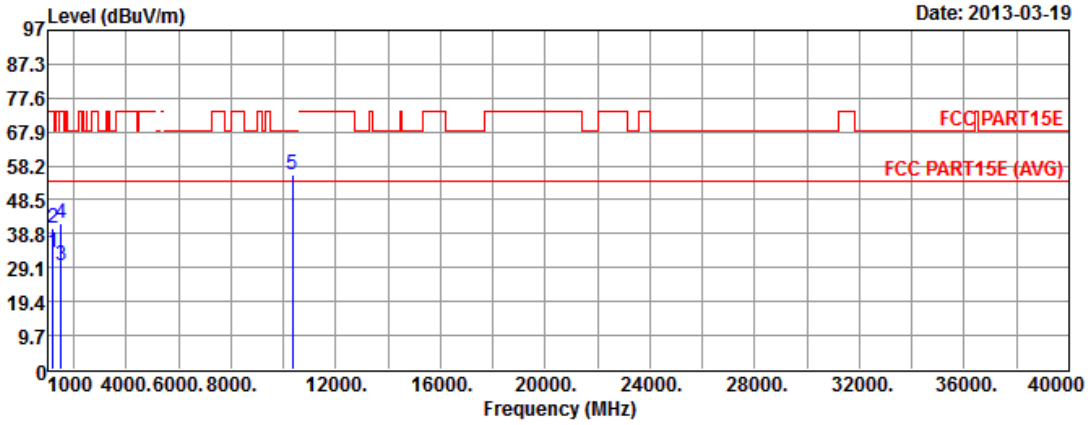
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	110.64	32.14	-11.36	43.50	51.25	11.28	1.15	31.54	---	---	Peak
2	140.66	32.94	-10.56	43.50	51.68	11.27	1.26	31.27	---	---	Peak
3	250.26	39.64	-6.36	46.00	56.30	12.63	1.61	30.90	---	---	Peak
4	375.44	42.87	-3.13	46.00	56.66	15.06	2.16	31.01	---	---	QP
5	624.84	40.39	-5.61	46.00	47.64	20.55	2.45	30.25	---	---	Peak
6	875.92	42.36	-3.64	46.00	46.14	23.10	2.97	29.85	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

For Model: R6100

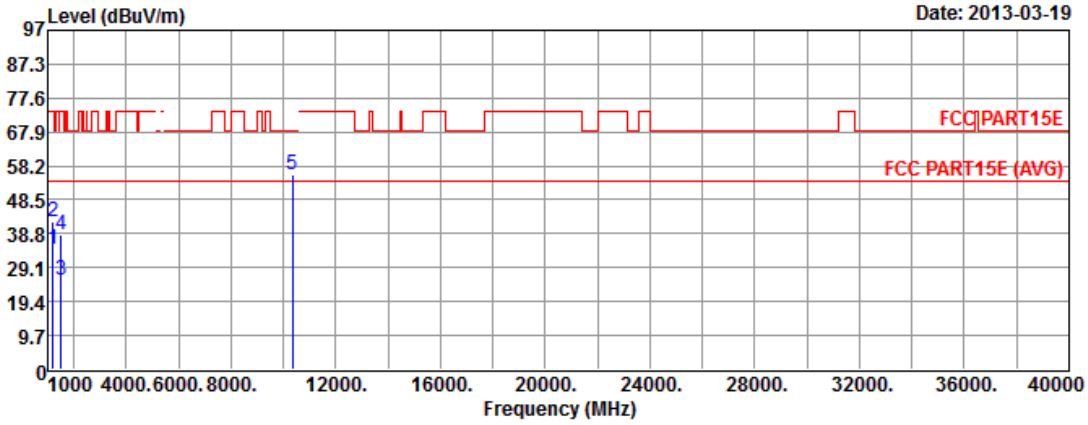
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.62	-20.38	54.00	40.18	27.94	3.14	37.64	---	---	Average
2	1200.00	40.44	-33.56	74.00	47.00	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.47	-24.53	54.00	34.72	28.00	3.55	36.80	---	---	Average
4	1500.00	41.80	-32.20	74.00	47.05	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.87	-12.43	68.30	43.86	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

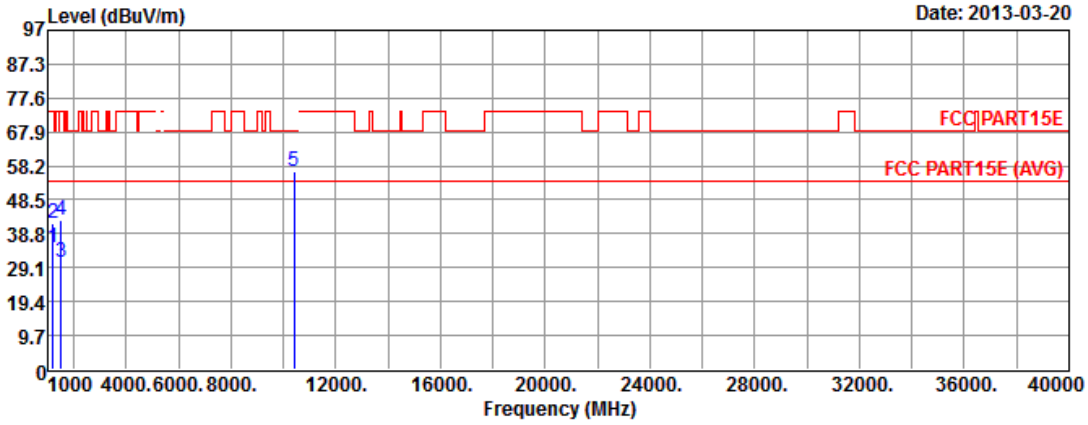
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.55	-19.45	54.00	41.11	27.94	3.14	37.64	---	---	Average
2	1200.00	42.20	-31.80	74.00	48.76	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.34	-28.66	54.00	30.59	28.00	3.55	36.80	---	---	Average
4	1500.00	38.50	-35.50	74.00	43.75	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.80	-12.50	68.30	43.79	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

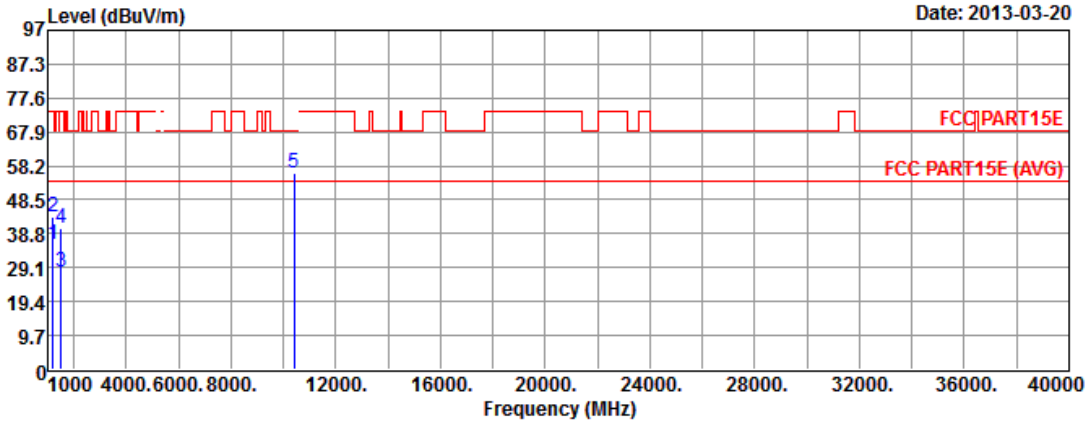
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.65	-19.35	54.00	41.21	27.94	3.14	37.64	---	---	Average
2	1200.00	41.56	-32.44	74.00	48.12	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.59	-23.41	54.00	35.84	28.00	3.55	36.80	---	---	Average
4	1500.00	42.91	-31.09	74.00	48.16	28.00	3.55	36.80	---	---	Peak
5	10400.00	56.62	-11.68	68.30	44.52	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

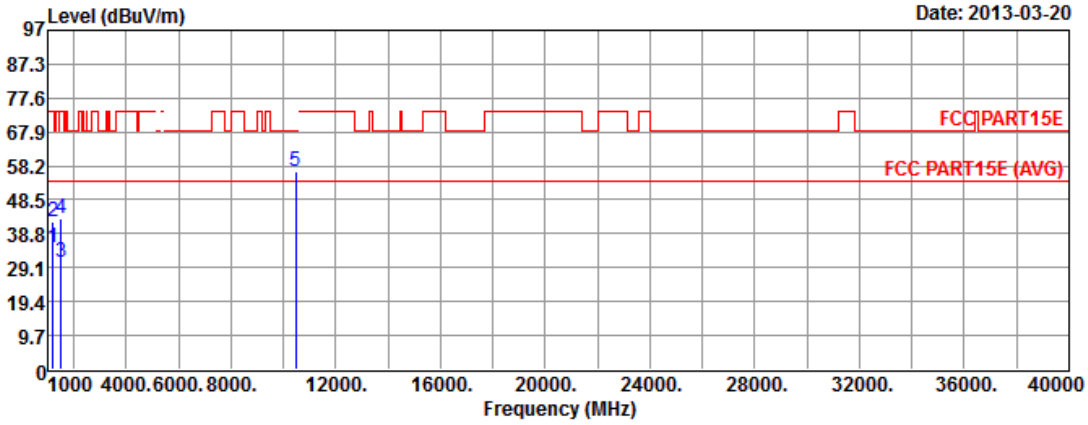
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.68	-18.32	54.00	42.24	27.94	3.14	37.64	---	---	Average
2	1200.00	43.51	-30.49	74.00	50.07	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.69	-26.31	54.00	32.94	28.00	3.55	36.80	---	---	Average
4	1500.00	40.58	-33.42	74.00	45.83	28.00	3.55	36.80	---	---	Peak
5	10400.00	56.23	-12.07	68.30	44.13	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

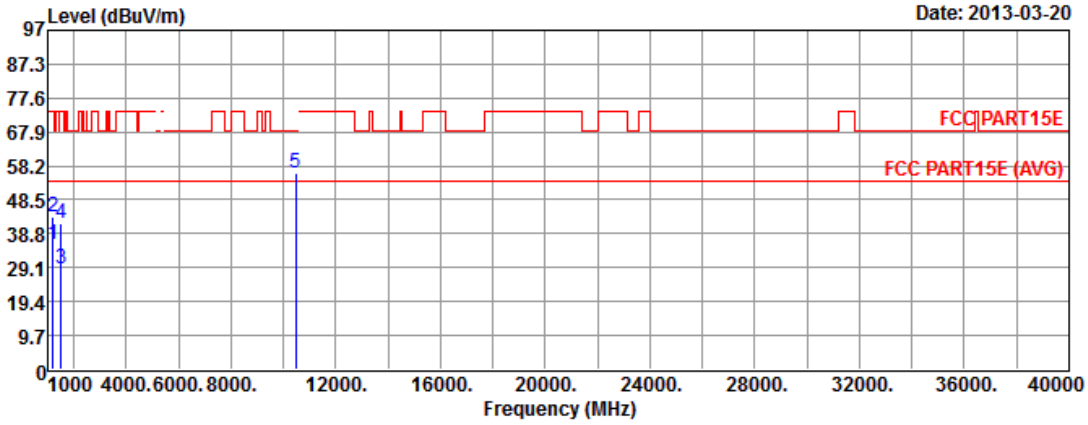
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.91	-19.09	54.00	41.47	27.94	3.14	37.64	---	---	Average
2	1200.00	42.08	-31.92	74.00	48.64	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.61	-23.39	54.00	35.86	28.00	3.55	36.80	---	---	Average
4	1500.00	42.96	-31.04	74.00	48.21	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.42	-11.88	68.30	44.15	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	H

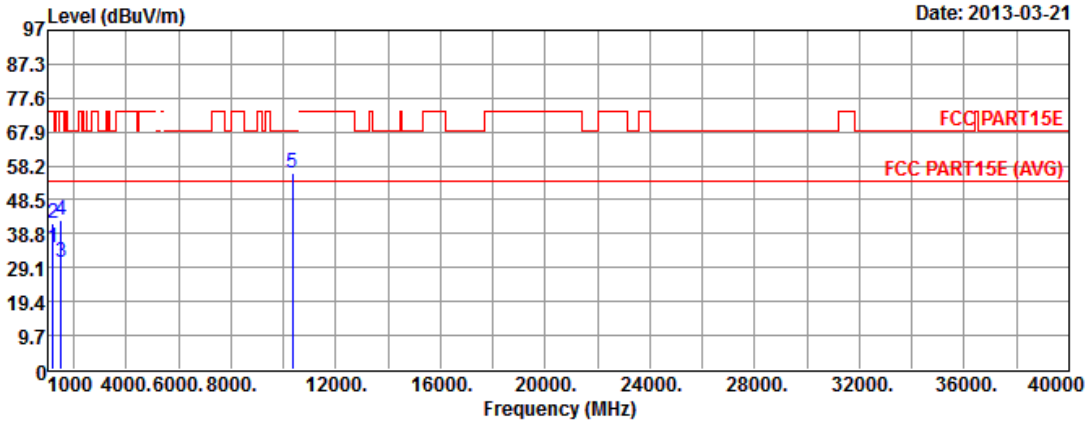


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.69	-18.31	54.00	42.25	27.94	3.14	37.64	---	---	Average
2	1200.00	43.54	-30.46	74.00	50.10	27.94	3.14	37.64	---	---	Peak
3	1500.00	28.89	-25.11	54.00	34.14	28.00	3.55	36.80	---	---	Average
4	1500.00	41.87	-32.13	74.00	47.12	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.04	-12.26	68.30	43.77	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

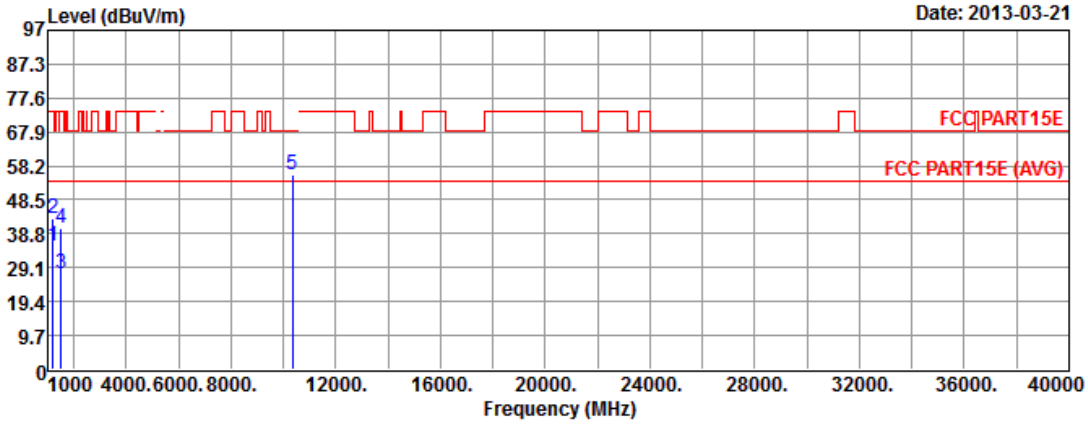
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.86	-19.14	54.00	41.42	27.94	3.14	37.64	---	---	Average
2	1200.00	41.59	-32.41	74.00	48.15	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.45	-23.55	54.00	35.70	28.00	3.55	36.80	---	---	Average
4	1500.00	42.63	-31.37	74.00	47.88	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.95	-12.35	68.30	43.94	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

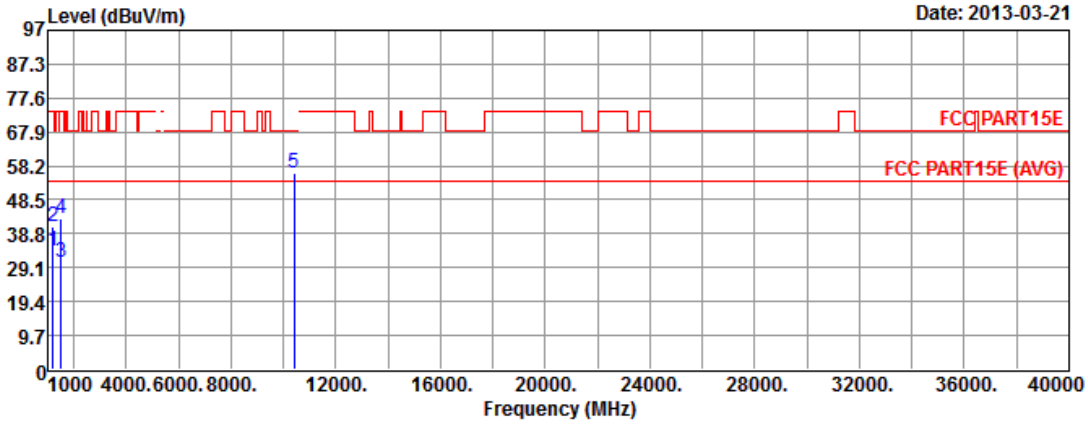
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.14	-18.86	54.00	41.70	27.94	3.14	37.64	---	---	Average
2	1200.00	43.22	-30.78	74.00	49.78	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.56	-26.44	54.00	32.81	28.00	3.55	36.80	---	---	Average
4	1500.00	40.18	-33.82	74.00	45.43	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.61	-12.69	68.30	43.60	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

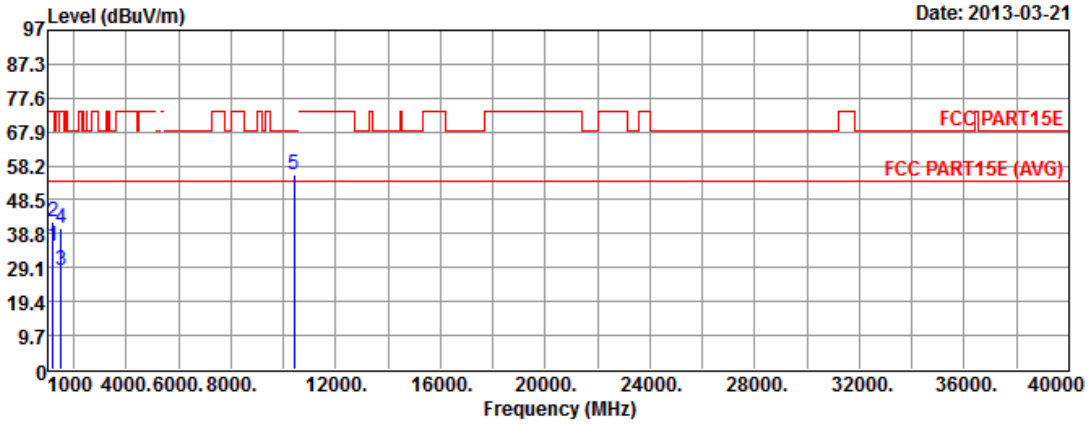
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.95	-20.05	54.00	40.51	27.94	3.14	37.64	---	---	Average
2	1200.00	40.86	-33.14	74.00	47.42	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.69	-23.31	54.00	35.94	28.00	3.55	36.80	---	---	Average
4	1500.00	43.01	-30.99	74.00	48.26	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.96	-12.34	68.30	43.86	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

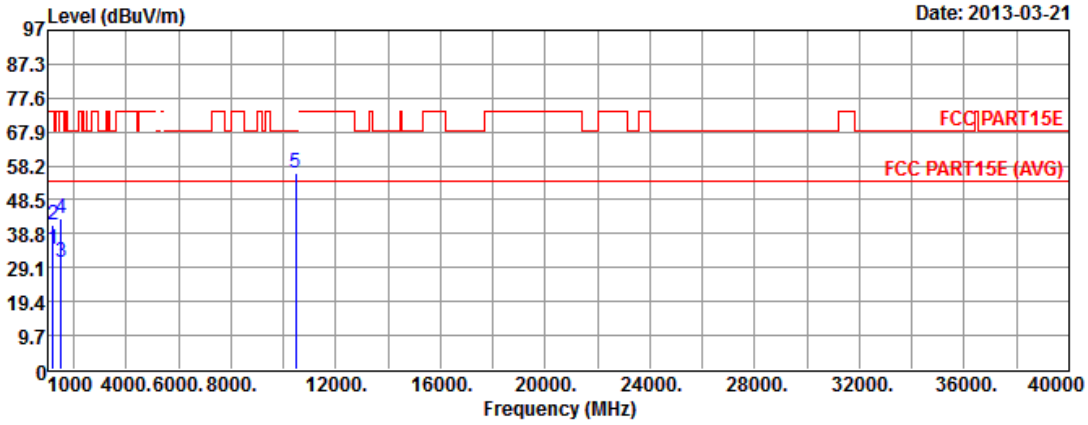
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.11	-18.89	54.00	41.67	27.94	3.14	37.64	---	---	Average
2	1200.00	42.26	-31.74	74.00	48.82	27.94	3.14	37.64	---	---	Peak
3	1500.00	28.46	-25.54	54.00	33.71	28.00	3.55	36.80	---	---	Average
4	1500.00	40.15	-33.85	74.00	45.40	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.74	-12.56	68.30	43.64	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

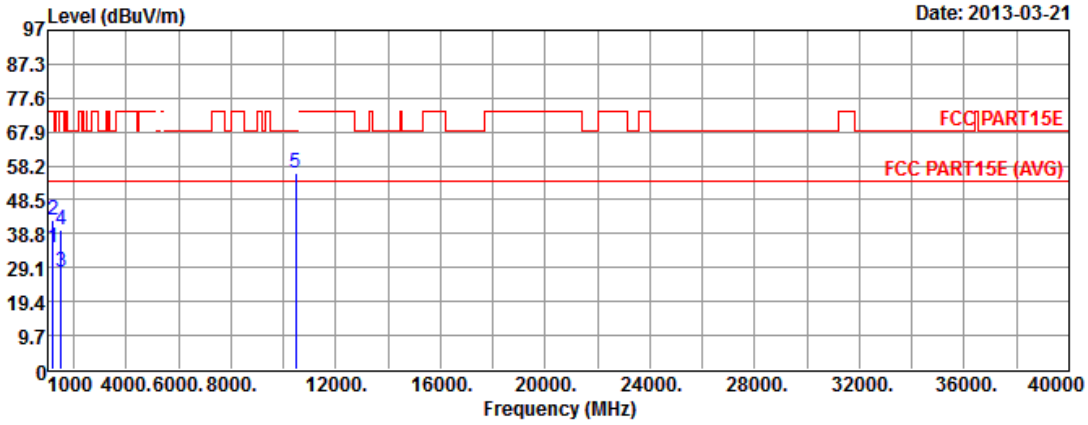
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.56	-19.44	54.00	41.12	27.94	3.14	37.64	---	---	Average
2	1200.00	41.35	-32.65	74.00	47.91	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.66	-23.34	54.00	35.91	28.00	3.55	36.80	---	---	Average
4	1500.00	42.94	-31.06	74.00	48.19	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.02	-12.28	68.30	43.75	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11a	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	H



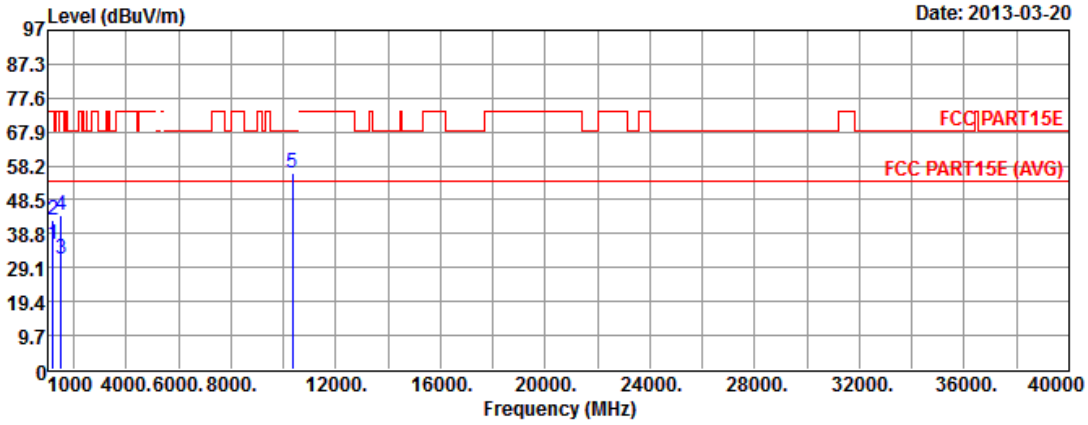
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.98	-19.02	54.00	41.54	27.94	3.14	37.64	---	---	Average
2	1200.00	42.85	-31.15	74.00	49.41	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.66	-26.34	54.00	32.91	28.00	3.55	36.80	---	---	Average
4	1500.00	40.13	-33.87	74.00	45.38	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.95	-12.35	68.30	43.68	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.7.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

For Model: R6100

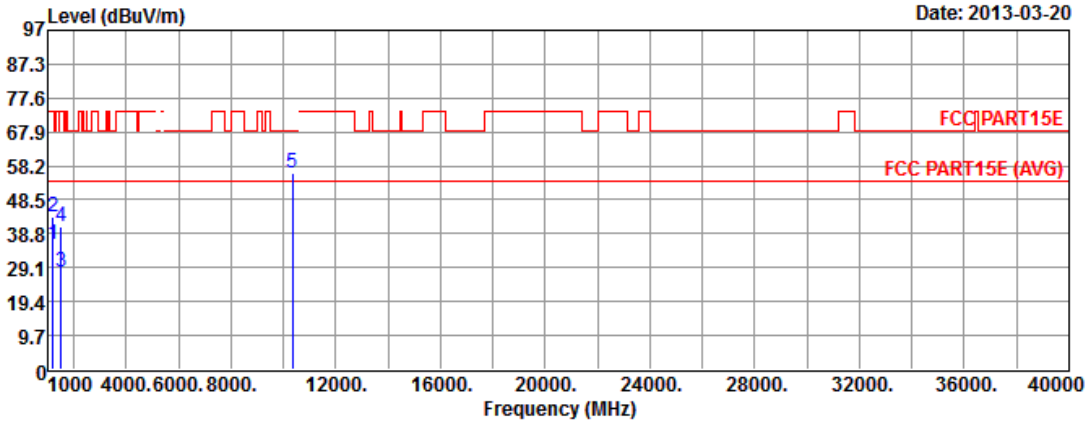
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.92	-18.08	54.00	42.48	27.94	3.14	37.64	---	---	Average
2	1200.00	42.88	-31.12	74.00	49.44	27.94	3.14	37.64	---	---	Peak
3	1500.00	31.59	-22.41	54.00	36.84	28.00	3.55	36.80	---	---	Average
4	1500.00	43.95	-30.05	74.00	49.20	28.00	3.55	36.80	---	---	Peak
5	10360.00	56.24	-12.06	68.30	44.23	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

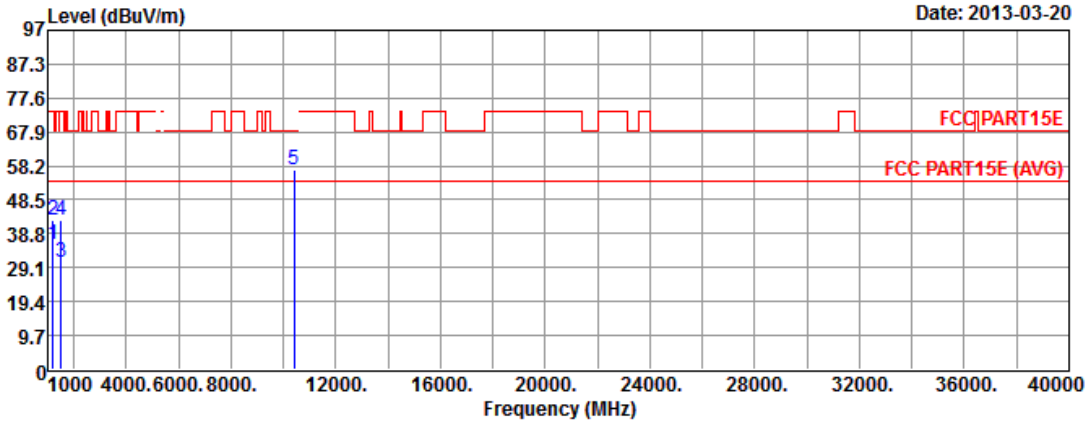
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.86	-18.14	54.00	42.42	27.94	3.14	37.64	---	---	Average
2	1200.00	43.45	-30.55	74.00	50.01	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.66	-26.34	54.00	32.91	28.00	3.55	36.80	---	---	Average
4	1500.00	40.65	-33.35	74.00	45.90	28.00	3.55	36.80	---	---	Peak
5	10360.00	56.14	-12.16	68.30	44.13	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

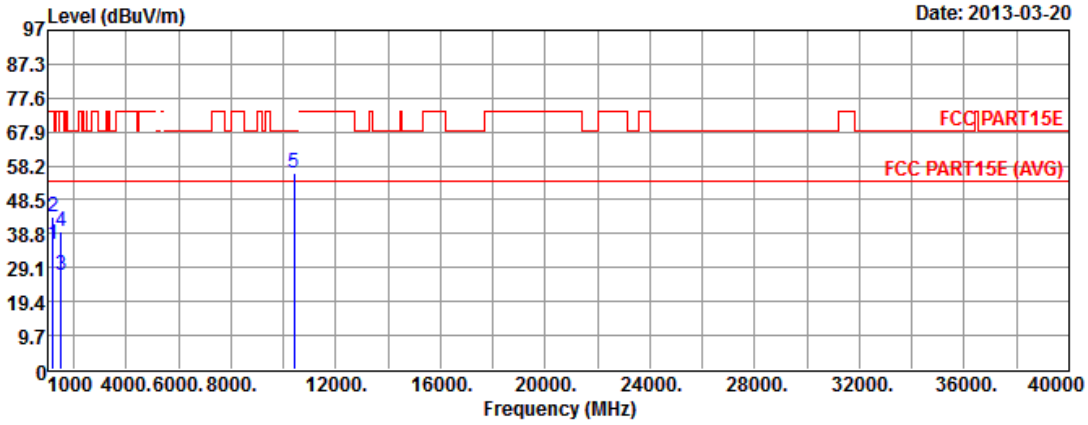
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.86	-18.14	54.00	42.42	27.94	3.14	37.64	---	---	Average
2	1200.00	42.76	-31.24	74.00	49.32	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.59	-23.41	54.00	35.84	28.00	3.55	36.80	---	---	Average
4	1500.00	42.93	-31.07	74.00	48.18	28.00	3.55	36.80	---	---	Peak
5	10400.00	56.94	-11.36	68.30	44.84	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

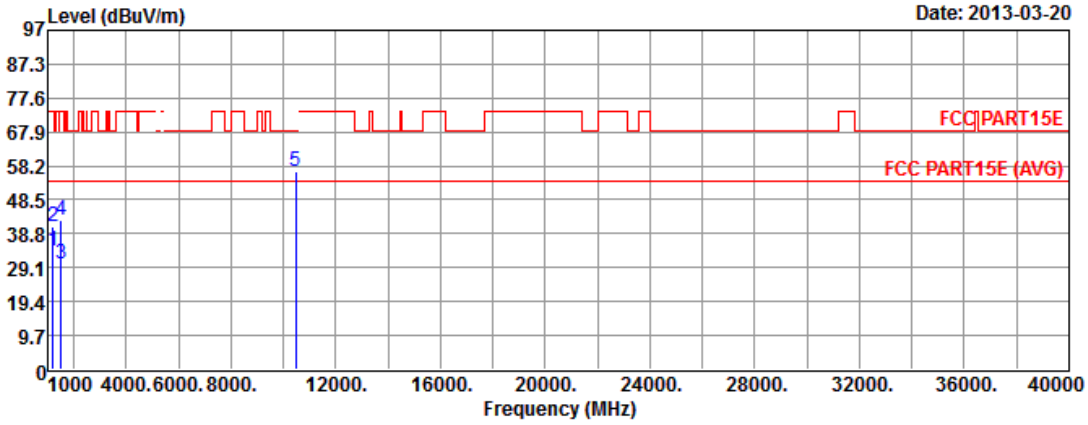
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.86	-18.14	54.00	42.42	27.94	3.14	37.64	---	---	Average
2	1200.00	43.54	-30.46	74.00	50.10	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.81	-27.19	54.00	32.06	28.00	3.55	36.80	---	---	Average
4	1500.00	39.68	-34.32	74.00	44.93	28.00	3.55	36.80	---	---	Peak
5	10400.00	56.24	-12.06	68.30	44.14	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

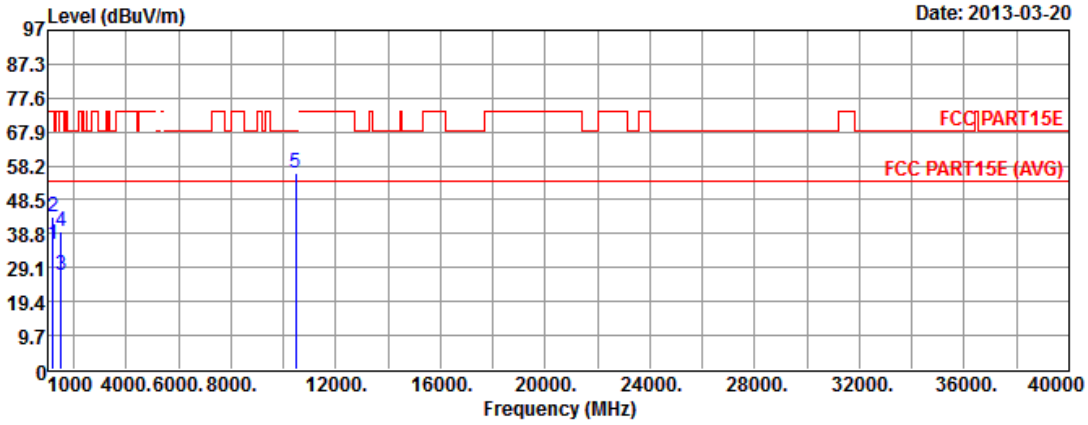
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.95	-20.05	54.00	40.51	27.94	3.14	37.64	---	---	Average
2	1200.00	40.86	-33.14	74.00	47.42	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.14	-23.86	54.00	35.39	28.00	3.55	36.80	---	---	Average
4	1500.00	42.61	-31.39	74.00	47.86	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.62	-11.68	68.30	44.35	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	H

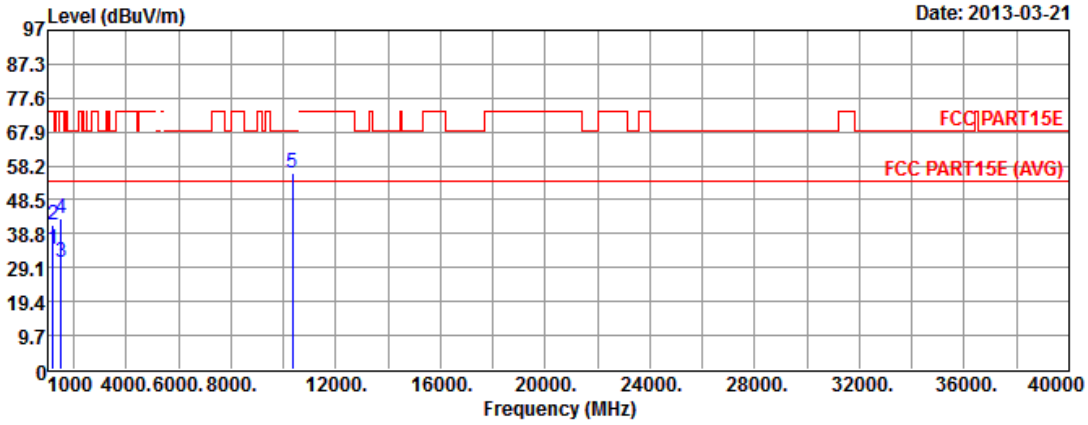


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.61	-18.39	54.00	42.17	27.94	3.14	37.64	---	---	Average
2	1200.00	43.41	-30.59	74.00	49.97	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.85	-27.15	54.00	32.10	28.00	3.55	36.80	---	---	Average
4	1500.00	39.61	-34.39	74.00	44.86	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.94	-12.36	68.30	43.67	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

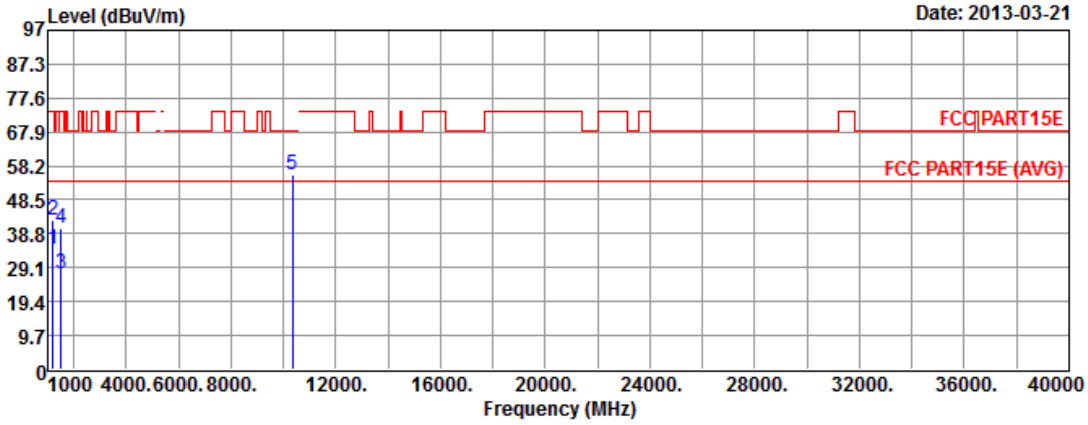
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.55	-19.45	54.00	41.11	27.94	3.14	37.64	---	---	Average
2	1200.00	41.23	-32.77	74.00	47.79	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.63	-23.37	54.00	35.88	28.00	3.55	36.80	---	---	Average
4	1500.00	43.15	-30.85	74.00	48.40	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.94	-12.36	68.30	43.93	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

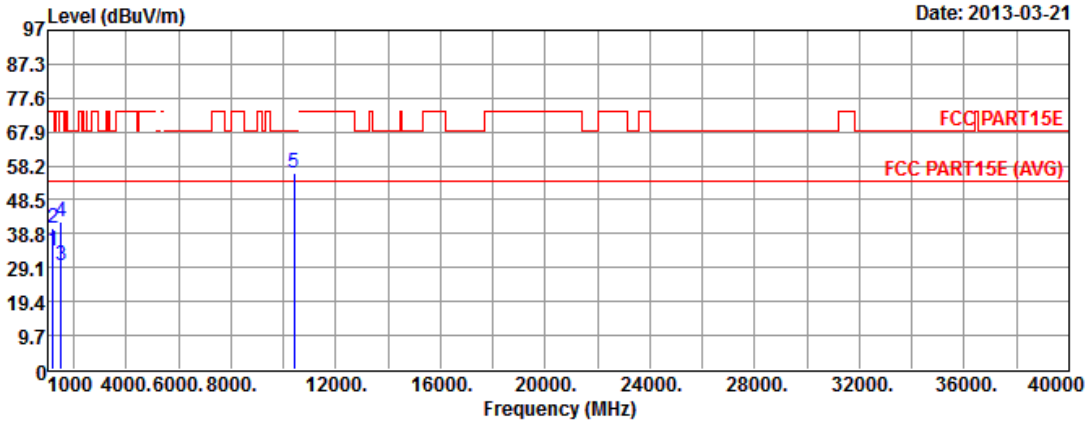
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.54	-19.46	54.00	41.10	27.94	3.14	37.64	---	---	Average
2	1200.00	42.86	-31.14	74.00	49.42	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.42	-26.58	54.00	32.67	28.00	3.55	36.80	---	---	Average
4	1500.00	40.15	-33.85	74.00	45.40	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.82	-12.48	68.30	43.81	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

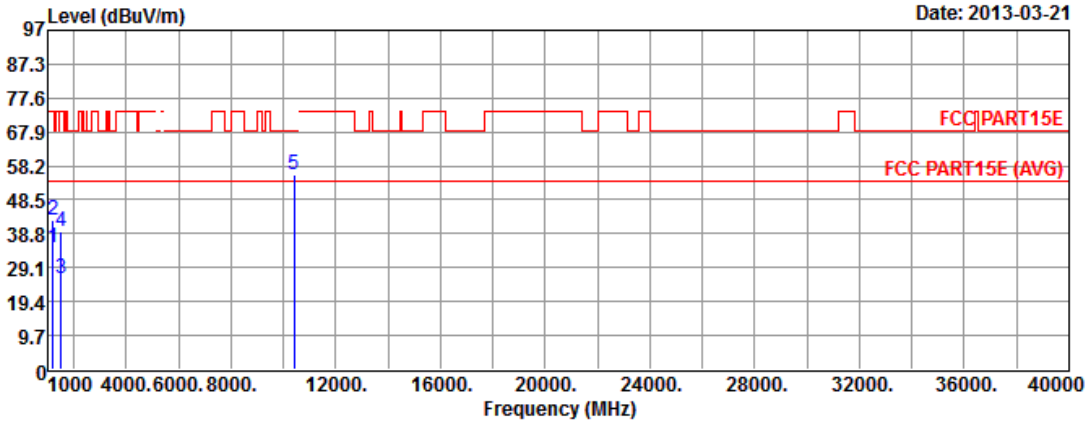
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.85	-20.15	54.00	40.41	27.94	3.14	37.64	---	---	Average
2	1200.00	40.53	-33.47	74.00	47.09	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.69	-24.31	54.00	34.94	28.00	3.55	36.80	---	---	Average
4	1500.00	42.14	-31.86	74.00	47.39	28.00	3.55	36.80	---	---	Peak
5	10400.00	56.05	-12.25	68.30	43.95	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

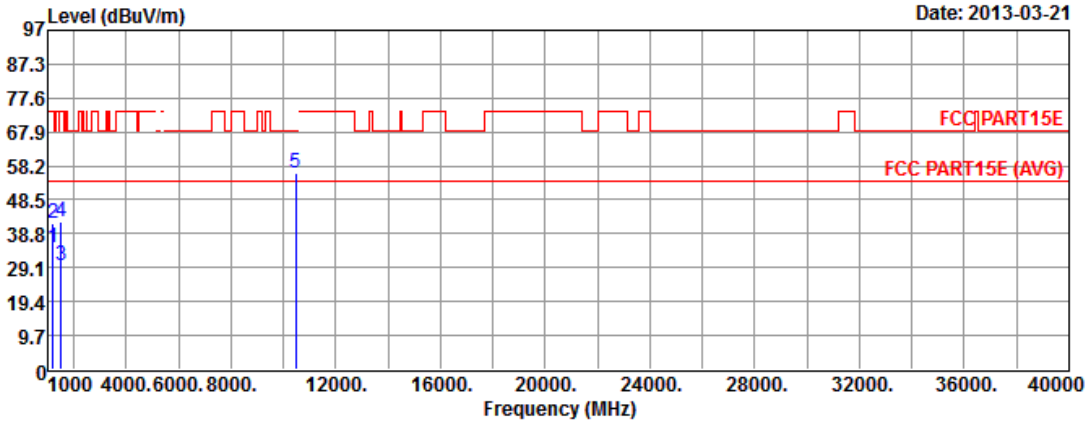
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.86	-19.14	54.00	41.42	27.94	3.14	37.64	---	---	Average
2	1200.00	42.93	-31.07	74.00	49.49	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.14	-27.86	54.00	31.39	28.00	3.55	36.80	---	---	Average
4	1500.00	39.25	-34.75	74.00	44.50	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.74	-12.56	68.30	43.64	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

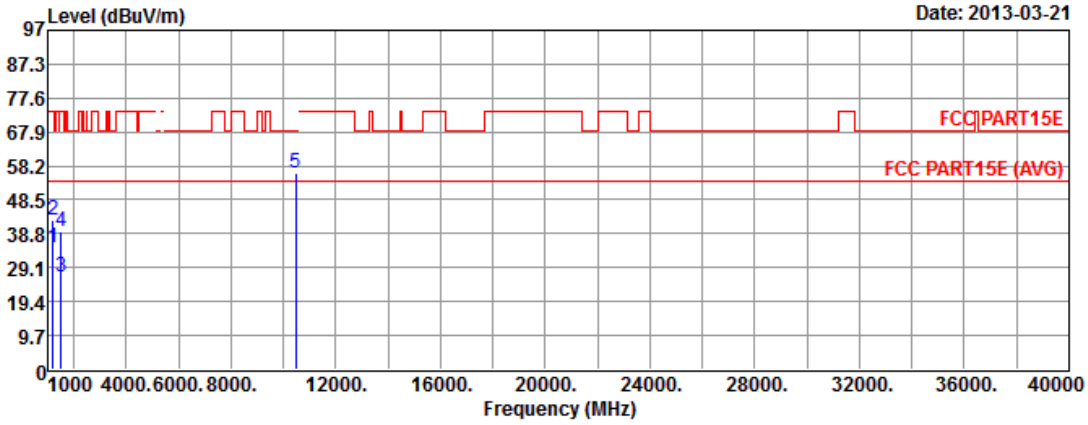
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.92	-19.08	54.00	41.48	27.94	3.14	37.64	---	---	Average
2	1200.00	41.86	-32.14	74.00	48.42	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.88	-24.12	54.00	35.13	28.00	3.55	36.80	---	---	Average
4	1500.00	42.31	-31.69	74.00	47.56	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.23	-12.07	68.30	43.96	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	H



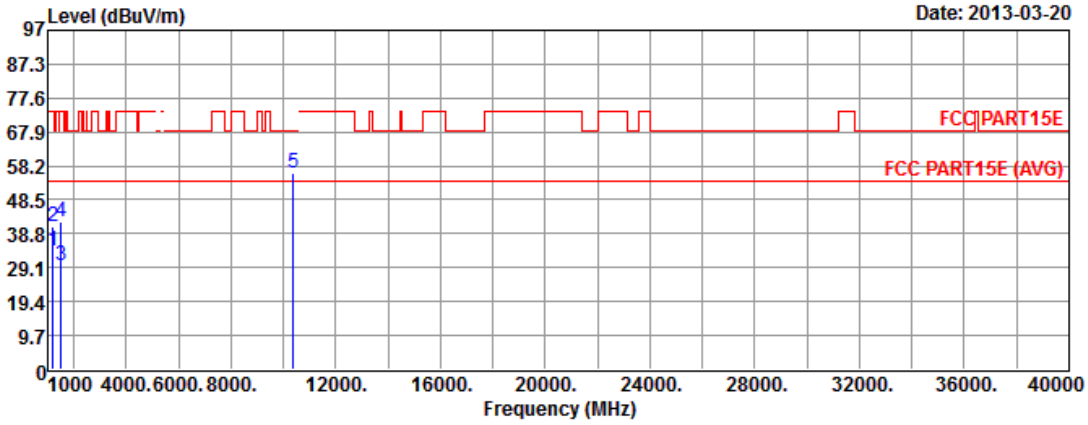
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.77	-19.23	54.00	41.33	27.94	3.14	37.64	---	---	Average
2	1200.00	42.61	-31.39	74.00	49.17	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.38	-27.62	54.00	31.63	28.00	3.55	36.80	---	---	Average
4	1500.00	39.33	-34.67	74.00	44.58	28.00	3.55	36.80	---	---	Peak
5	10480.00	56.11	-12.19	68.30	43.84	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.7.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

For Model: R6100

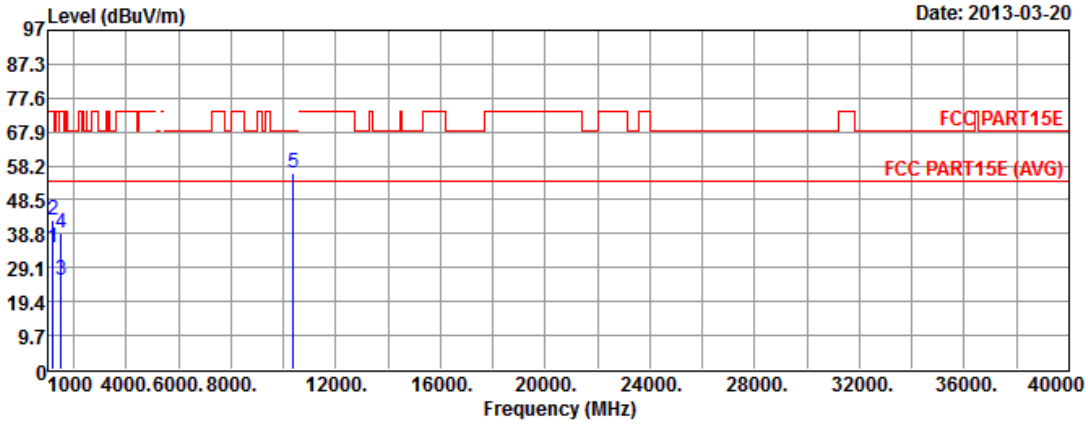
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5190
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.94	-20.06	54.00	40.50	27.94	3.14	37.64	---	---	Average
2	1200.00	40.76	-33.24	74.00	47.32	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.65	-24.35	54.00	34.90	28.00	3.55	36.80	---	---	Average
4	1500.00	42.03	-31.97	74.00	47.28	28.00	3.55	36.80	---	---	Peak
5	10380.00	56.06	-12.24	68.30	44.01	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

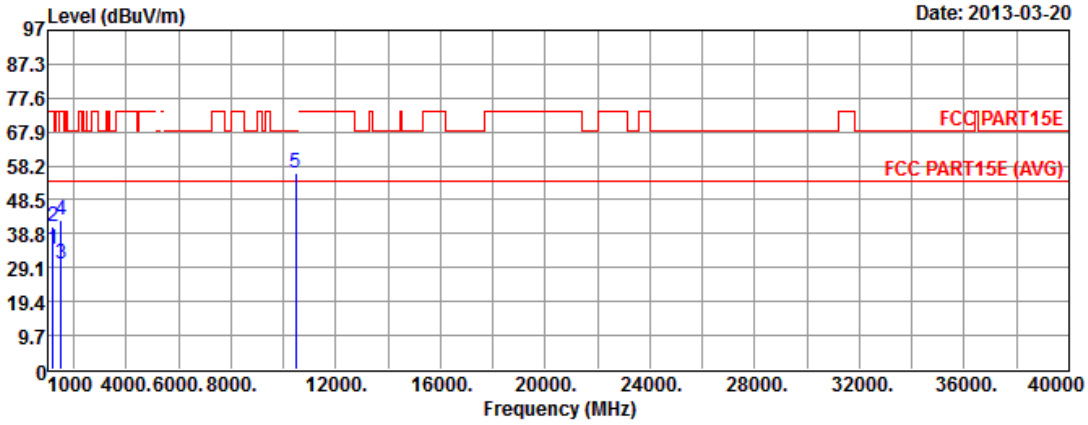
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5190
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.96	-19.04	54.00	41.52	27.94	3.14	37.64	---	---	Average
2	1200.00	42.63	-31.37	74.00	49.19	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.66	-28.34	54.00	30.91	28.00	3.55	36.80	---	---	Average
4	1500.00	38.95	-35.05	74.00	44.20	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.94	-12.36	68.30	43.89	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

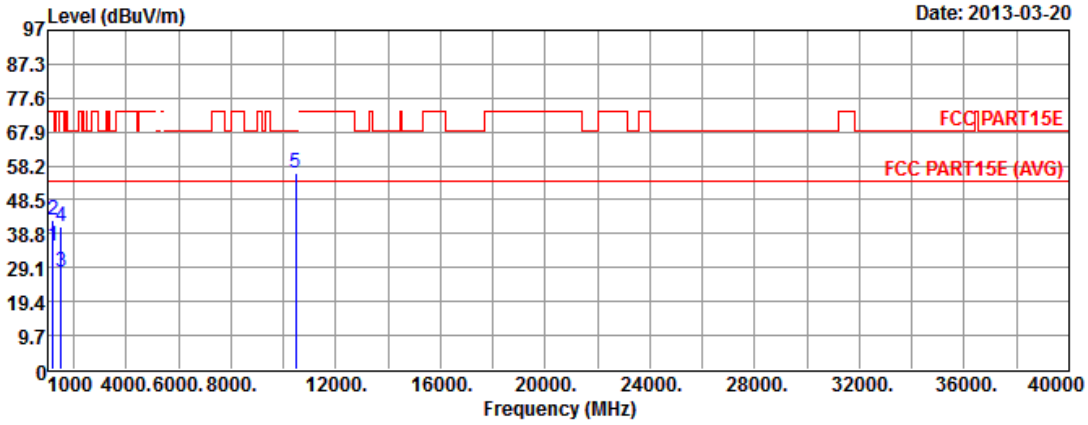
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5230
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.12	-19.88	54.00	40.68	27.94	3.14	37.64	---	---	Average
2	1200.00	40.95	-33.05	74.00	47.51	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.25	-23.75	54.00	35.50	28.00	3.55	36.80	---	---	Average
4	1500.00	42.53	-31.47	74.00	47.78	28.00	3.55	36.80	---	---	Peak
5	10460.00	56.23	-12.07	68.30	44.00	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5230
N_{TX}	2	**Polarization**	H

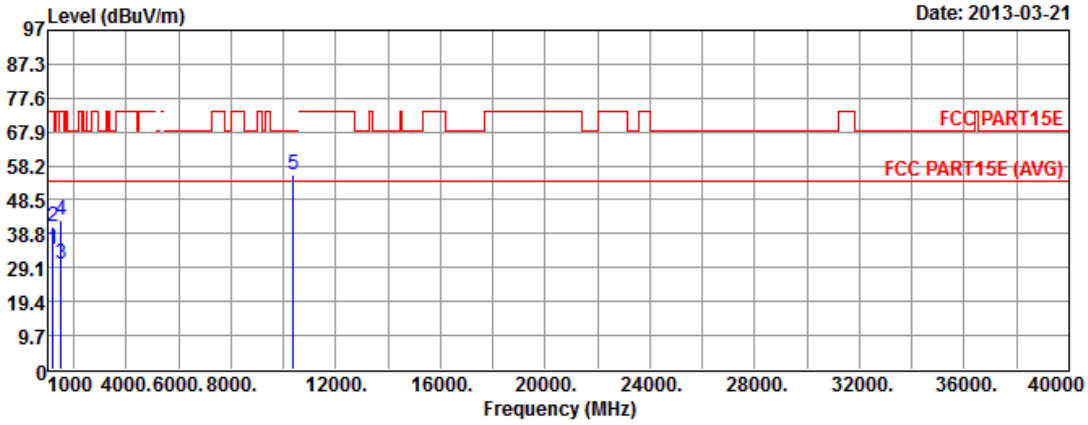


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.16	-18.84	54.00	41.72	27.94	3.14	37.64	---	---	Average
2	1200.00	42.64	-31.36	74.00	49.20	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.65	-26.35	54.00	32.90	28.00	3.55	36.80	---	---	Average
4	1500.00	40.81	-33.19	74.00	46.06	28.00	3.55	36.80	---	---	Peak
5	10460.00	56.04	-12.26	68.30	43.81	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

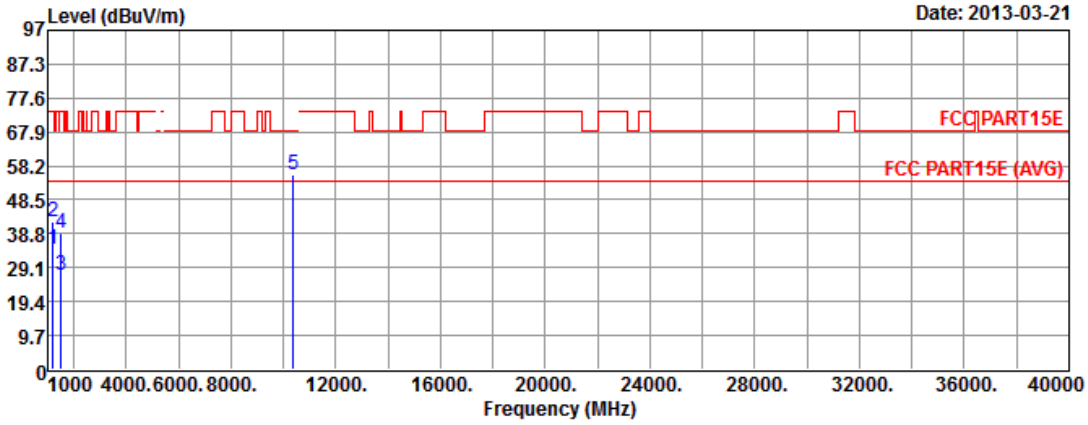
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5190
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.15	-19.85	54.00	40.71	27.94	3.14	37.64	---	---	Average
2	1200.00	40.96	-33.04	74.00	47.52	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.35	-23.65	54.00	35.60	28.00	3.55	36.80	---	---	Average
4	1500.00	42.63	-31.37	74.00	47.88	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.75	-12.55	68.30	43.70	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

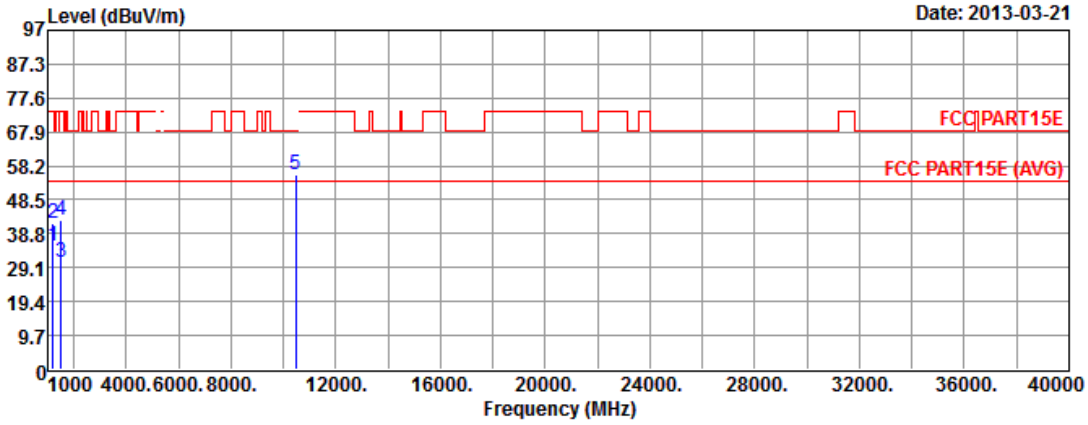
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5190
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.55	-19.45	54.00	41.11	27.94	3.14	37.64	---	---	Average
2	1200.00	42.38	-31.62	74.00	48.94	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.95	-27.05	54.00	32.20	28.00	3.55	36.80	---	---	Average
4	1500.00	38.84	-35.16	74.00	44.09	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.63	-12.67	68.30	43.58	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

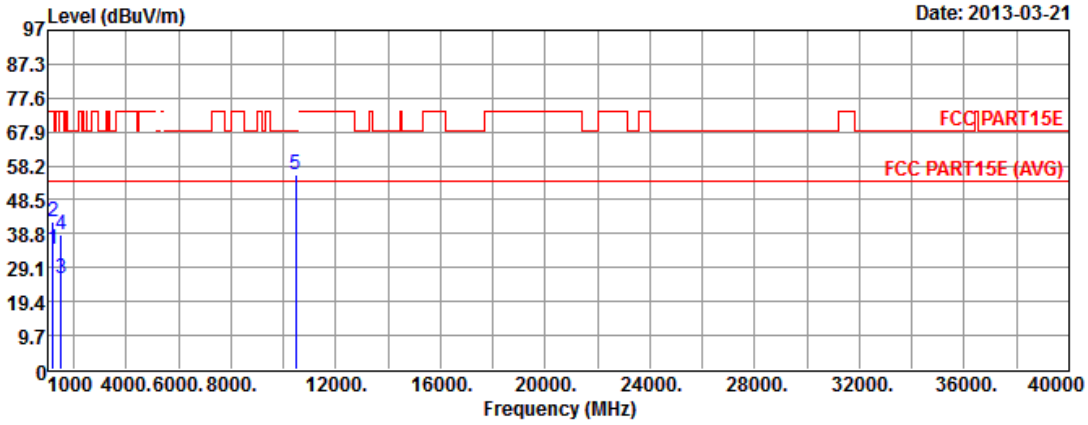
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5230
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.18	-18.82	54.00	41.74	27.94	3.14	37.64	---	---	Average
2	1200.00	41.95	-32.05	74.00	48.51	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.83	-23.17	54.00	36.08	28.00	3.55	36.80	---	---	Average
4	1500.00	42.92	-31.08	74.00	48.17	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.57	-12.73	68.30	43.34	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	**Test Freq. (MHz)**	5230
N_{TX}	1	**Polarization**	H



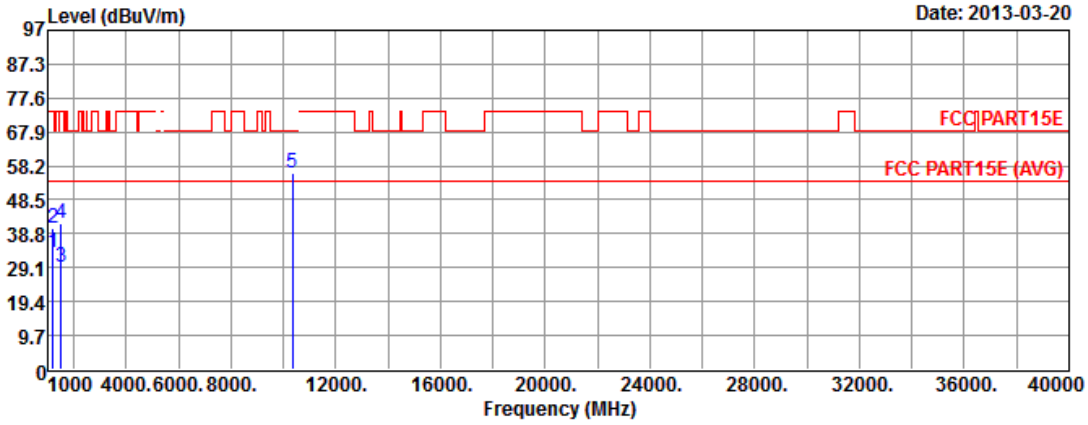
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.45	-19.55	54.00	41.01	27.94	3.14	37.64	---	---	Average
2	1200.00	42.31	-31.69	74.00	48.87	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.96	-28.04	54.00	31.21	28.00	3.55	36.80	---	---	Average
4	1500.00	38.41	-35.59	74.00	43.66	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.74	-12.56	68.30	43.51	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

For Model: R6100

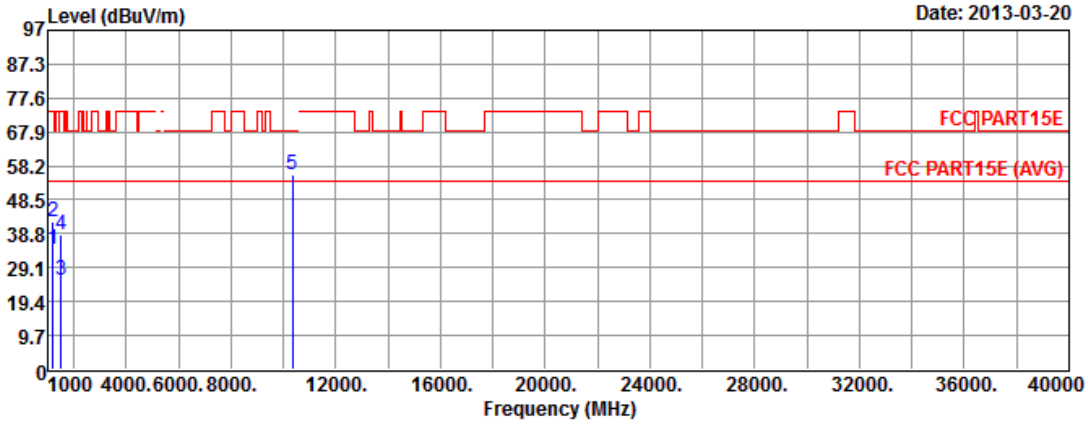
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.52	-20.48	54.00	40.08	27.94	3.14	37.64	---	---	Average
2	1200.00	40.23	-33.77	74.00	46.79	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.35	-24.65	54.00	34.60	28.00	3.55	36.80	---	---	Average
4	1500.00	41.68	-32.32	74.00	46.93	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.96	-12.34	68.30	43.95	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

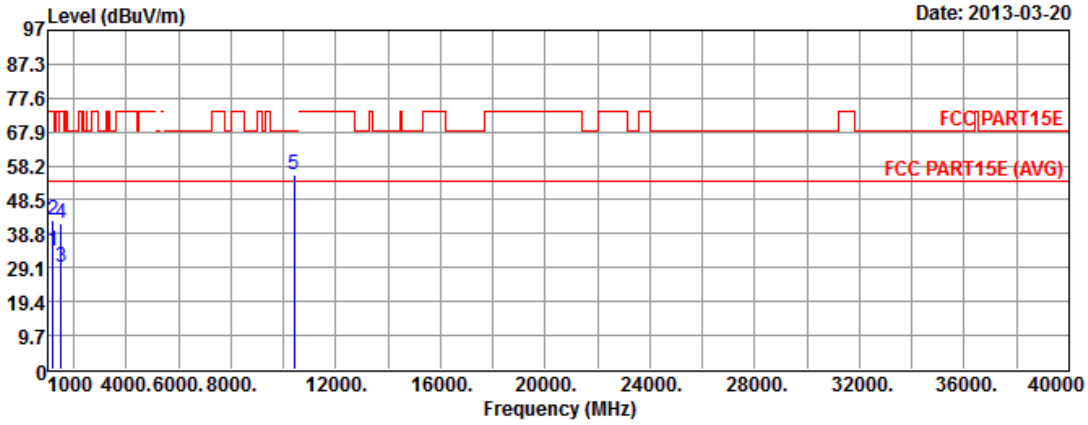
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5180
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.42	-19.58	54.00	40.98	27.94	3.14	37.64	---	---	Average
2	1200.00	42.13	-31.87	74.00	48.69	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.44	-28.56	54.00	30.69	28.00	3.55	36.80	---	---	Average
4	1500.00	38.61	-35.39	74.00	43.86	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.49	-12.81	68.30	43.48	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

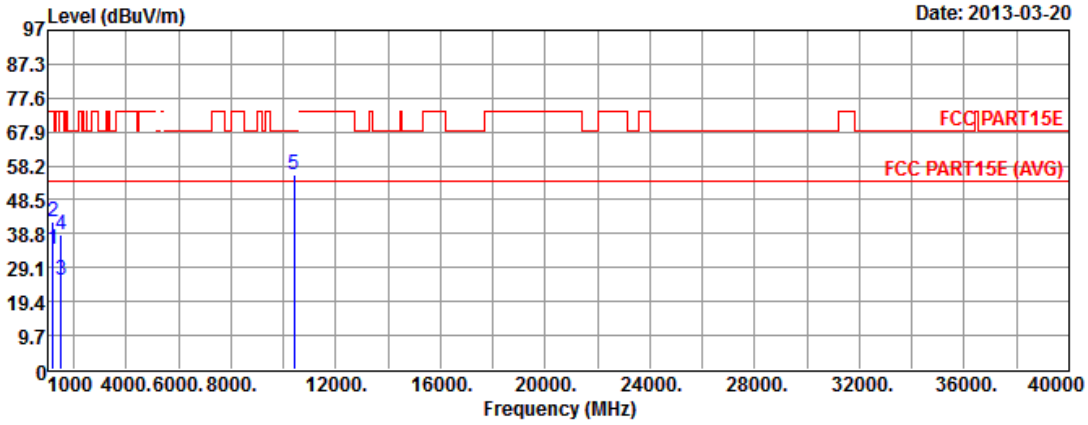
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.81	-20.19	54.00	40.37	27.94	3.14	37.64	---	---	Average
2	1200.00	42.52	-31.48	74.00	49.08	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.34	-24.66	54.00	34.59	28.00	3.55	36.80	---	---	Average
4	1500.00	41.62	-32.38	74.00	46.87	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.61	-12.69	68.30	43.51	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

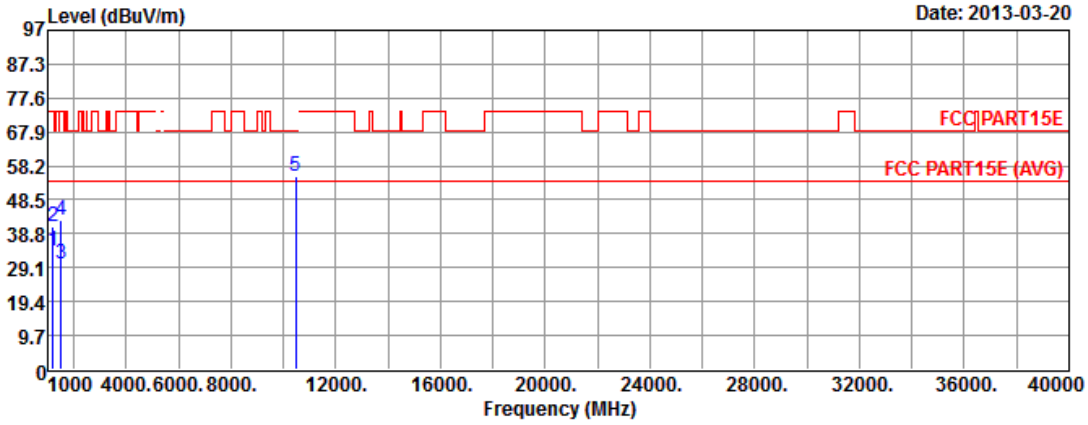
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5200
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.42	-19.58	54.00	40.98	27.94	3.14	37.64	---	---	Average
2	1200.00	42.18	-31.82	74.00	48.74	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.44	-28.56	54.00	30.69	28.00	3.55	36.80	---	---	Average
4	1500.00	38.65	-35.35	74.00	43.90	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.92	-12.38	68.30	43.82	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

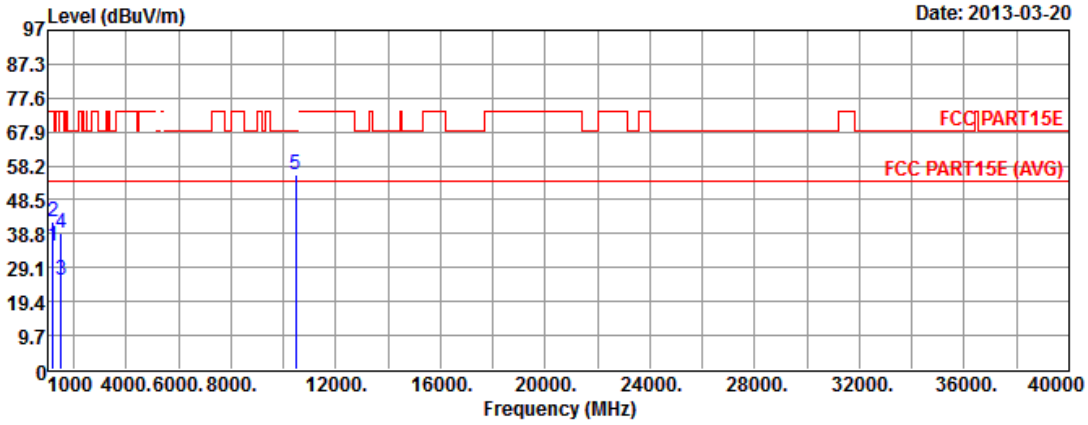
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.75	-20.25	54.00	40.31	27.94	3.14	37.64	---	---	Average
2	1200.00	40.86	-33.14	74.00	47.42	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.12	-23.88	54.00	35.37	28.00	3.55	36.80	---	---	Average
4	1500.00	42.69	-31.31	74.00	47.94	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.43	-12.87	68.30	43.16	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5240
N_{TX}	2	**Polarization**	H

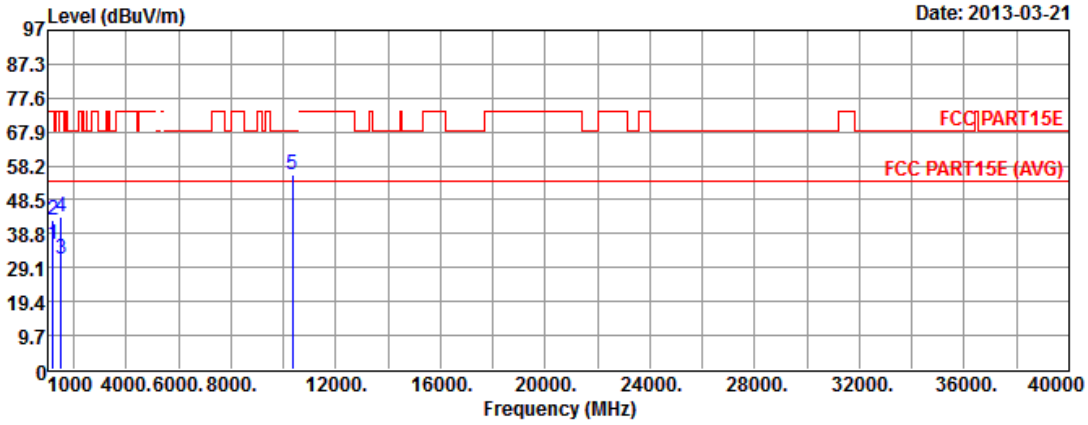


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.13	-18.87	54.00	41.69	27.94	3.14	37.64	---	---	Average
2	1200.00	42.35	-31.65	74.00	48.91	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.68	-28.32	54.00	30.93	28.00	3.55	36.80	---	---	Average
4	1500.00	38.91	-35.09	74.00	44.16	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.76	-12.54	68.30	43.49	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

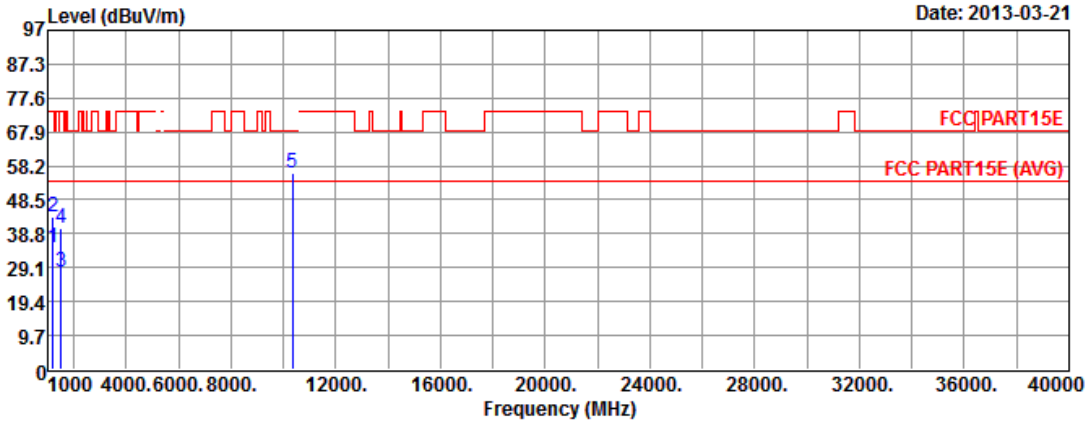
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.83	-18.17	54.00	42.39	27.94	3.14	37.64	---	---	Average
2	1200.00	42.65	-31.35	74.00	49.21	27.94	3.14	37.64	---	---	Peak
3	1500.00	31.65	-22.35	54.00	36.90	28.00	3.55	36.80	---	---	Average
4	1500.00	43.81	-30.19	74.00	49.06	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.70	-12.60	68.30	43.69	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

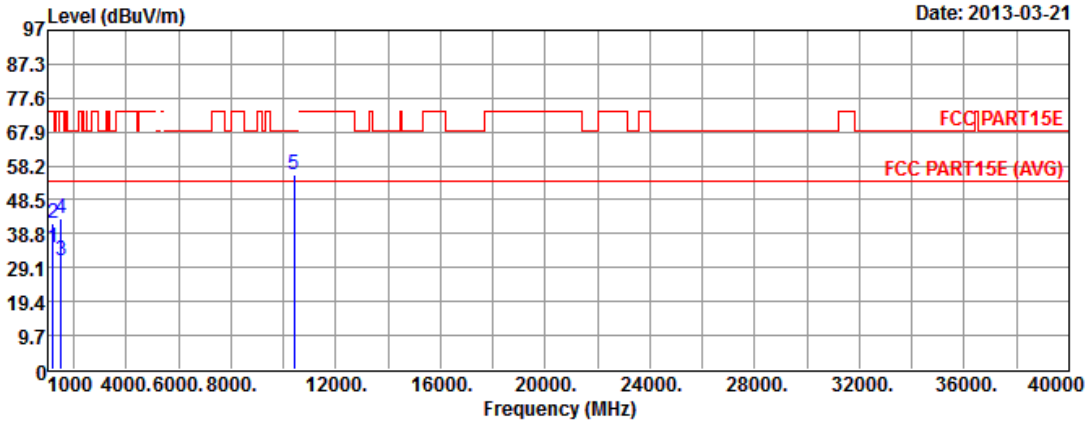
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5180
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.75	-19.25	54.00	41.31	27.94	3.14	37.64	---	---	Average
2	1200.00	43.56	-30.44	74.00	50.12	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.66	-26.34	54.00	32.91	28.00	3.55	36.80	---	---	Average
4	1500.00	40.25	-33.75	74.00	45.50	28.00	3.55	36.80	---	---	Peak
5	10360.00	55.93	-12.37	68.30	43.92	37.72	9.73	35.44	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

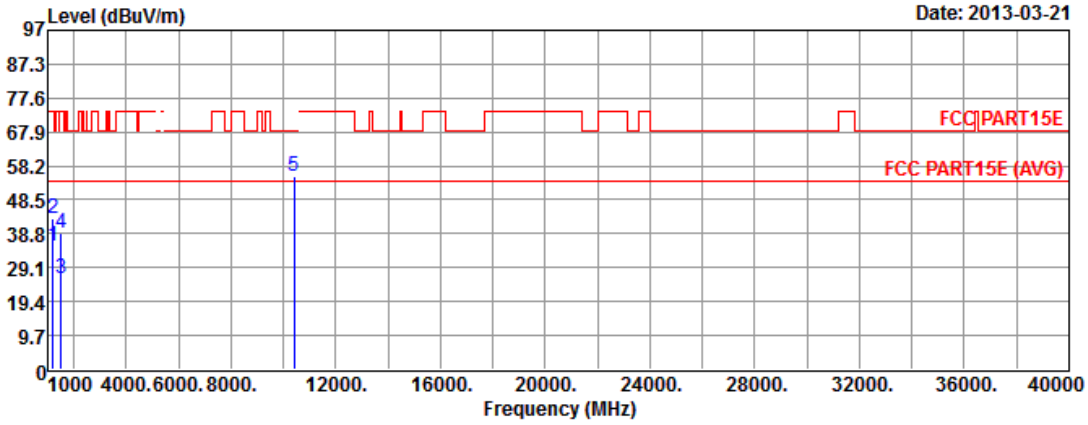
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.91	-19.09	54.00	41.47	27.94	3.14	37.64	---	---	Average
2	1200.00	41.84	-32.16	74.00	48.40	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.88	-23.12	54.00	36.13	28.00	3.55	36.80	---	---	Average
4	1500.00	43.15	-30.85	74.00	48.40	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.62	-12.68	68.30	43.52	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

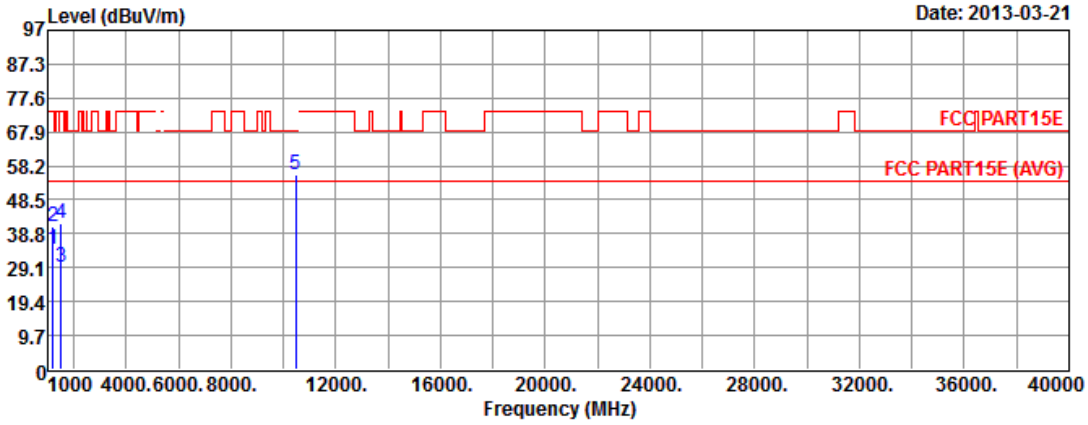
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5200
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.23	-18.77	54.00	41.79	27.94	3.14	37.64	---	---	Average
2	1200.00	43.16	-30.84	74.00	49.72	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.14	-27.86	54.00	31.39	28.00	3.55	36.80	---	---	Average
4	1500.00	38.95	-35.05	74.00	44.20	28.00	3.55	36.80	---	---	Peak
5	10400.00	55.43	-12.87	68.30	43.33	37.74	9.76	35.40	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

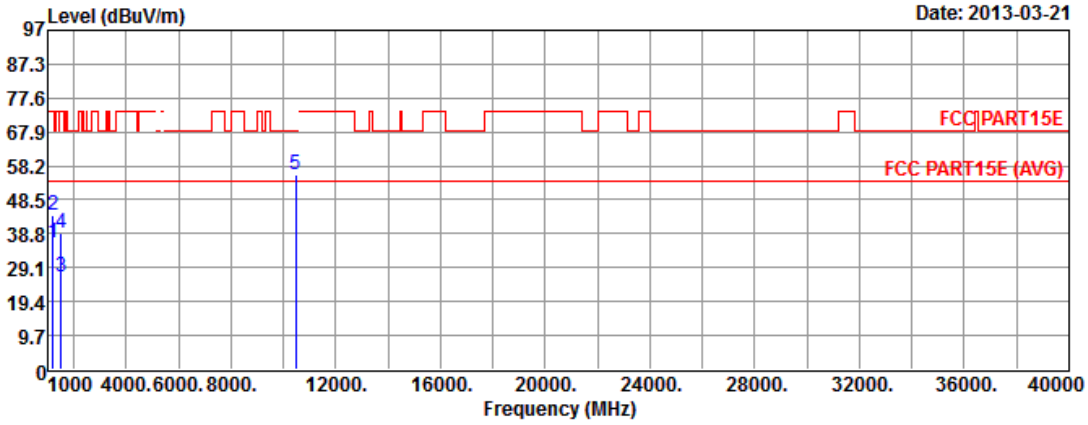
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.18	-19.82	54.00	40.74	27.94	3.14	37.64	---	---	Average
2	1200.00	40.96	-33.04	74.00	47.52	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.43	-24.57	54.00	34.68	28.00	3.55	36.80	---	---	Average
4	1500.00	41.66	-32.34	74.00	46.91	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.68	-12.62	68.30	43.41	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT20	**Test Freq. (MHz)**	5240
N_{TX}	1	**Polarization**	H



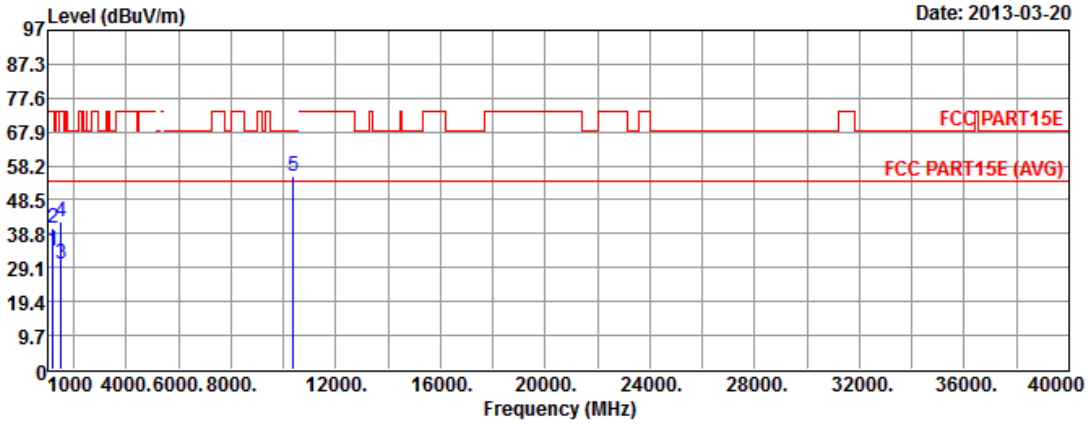
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	36.28	-17.72	54.00	42.84	27.94	3.14	37.64	---	---	Average
2	1200.00	44.26	-29.74	74.00	50.82	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.43	-27.57	54.00	31.68	28.00	3.55	36.80	---	---	Average
4	1500.00	39.19	-34.81	74.00	44.44	28.00	3.55	36.80	---	---	Peak
5	10480.00	55.54	-12.76	68.30	43.27	37.79	9.80	35.32	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

For Model: R6100

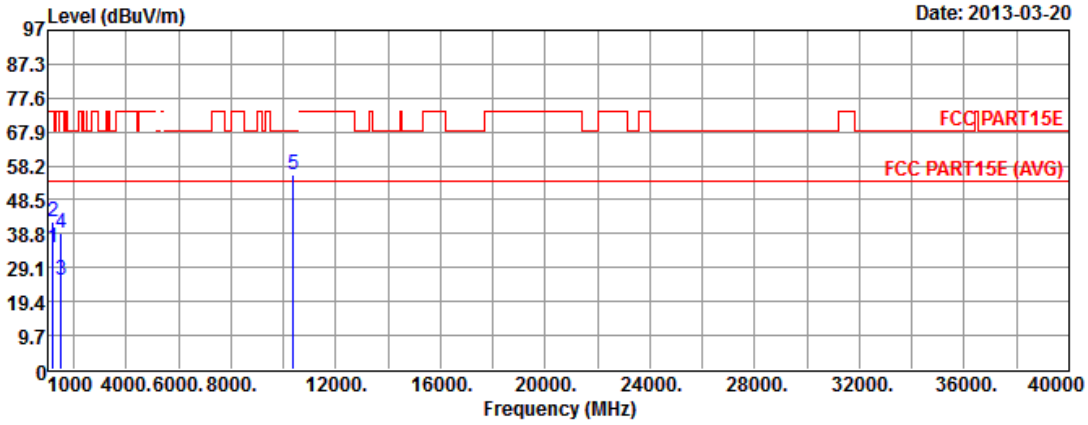
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5190
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.81	-20.19	54.00	40.37	27.94	3.14	37.64	---	---	Average
2	1200.00	40.56	-33.44	74.00	47.12	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.13	-23.87	54.00	35.38	28.00	3.55	36.80	---	---	Average
4	1500.00	42.25	-31.75	74.00	47.50	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.42	-12.88	68.30	43.37	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

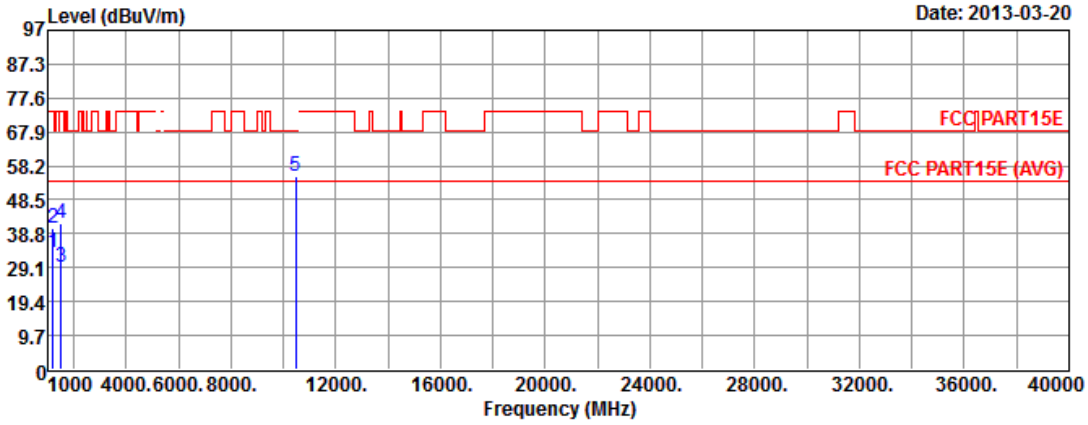
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5190
N_{TX}	2	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.81	-19.19	54.00	41.37	27.94	3.14	37.64	---	---	Average
2	1200.00	42.45	-31.55	74.00	49.01	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.66	-28.34	54.00	30.91	28.00	3.55	36.80	---	---	Average
4	1500.00	39.02	-34.98	74.00	44.27	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.49	-12.81	68.30	43.44	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

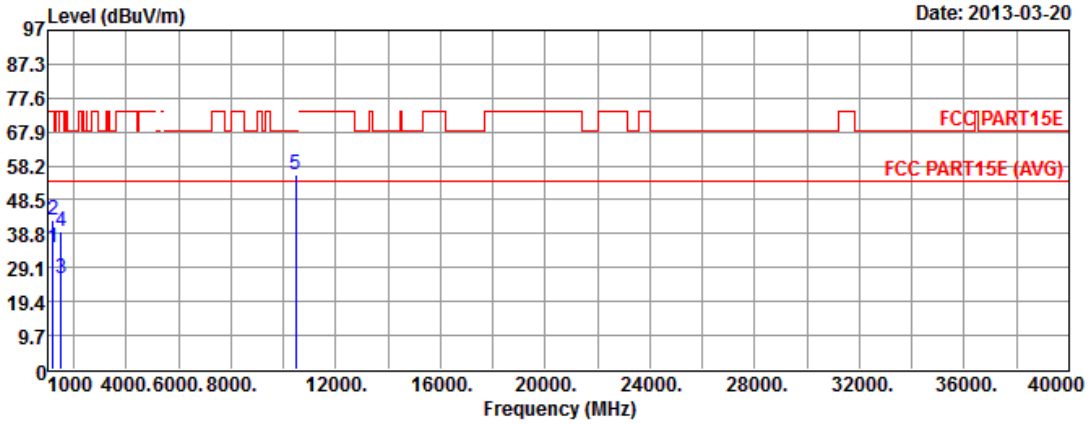
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5230
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.51	-20.49	54.00	40.07	27.94	3.14	37.64	---	---	Average
2	1200.00	40.22	-33.78	74.00	46.78	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.36	-24.64	54.00	34.61	28.00	3.55	36.80	---	---	Average
4	1500.00	41.68	-32.32	74.00	46.93	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.18	-13.12	68.30	42.95	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5230
N_{TX}	2	**Polarization**	H

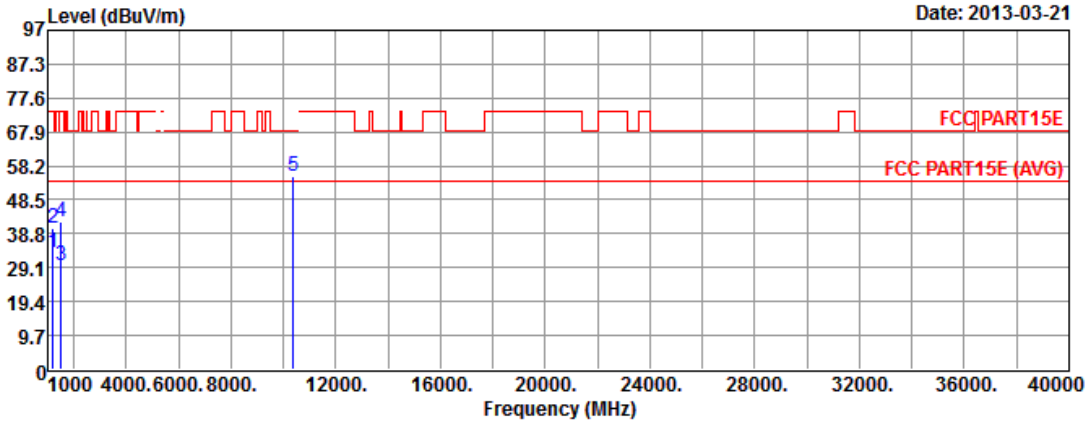


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.86	-19.14	54.00	41.42	27.94	3.14	37.64	---	---	Average
2	1200.00	42.51	-31.49	74.00	49.07	27.94	3.14	37.64	---	---	Peak
3	1500.00	25.88	-28.12	54.00	31.13	28.00	3.55	36.80	---	---	Average
4	1500.00	39.41	-34.59	74.00	44.66	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.52	-12.78	68.30	43.29	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

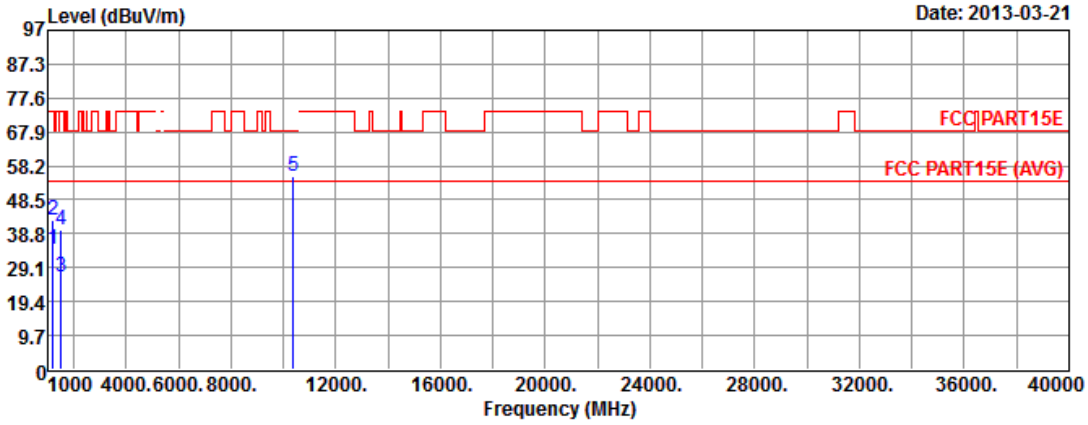
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5190
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.62	-20.38	54.00	40.18	27.94	3.14	37.64	---	---	Average
2	1200.00	40.35	-33.65	74.00	46.91	27.94	3.14	37.64	---	---	Peak
3	1500.00	29.88	-24.12	54.00	35.13	28.00	3.55	36.80	---	---	Average
4	1500.00	42.15	-31.85	74.00	47.40	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.43	-12.87	68.30	43.38	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

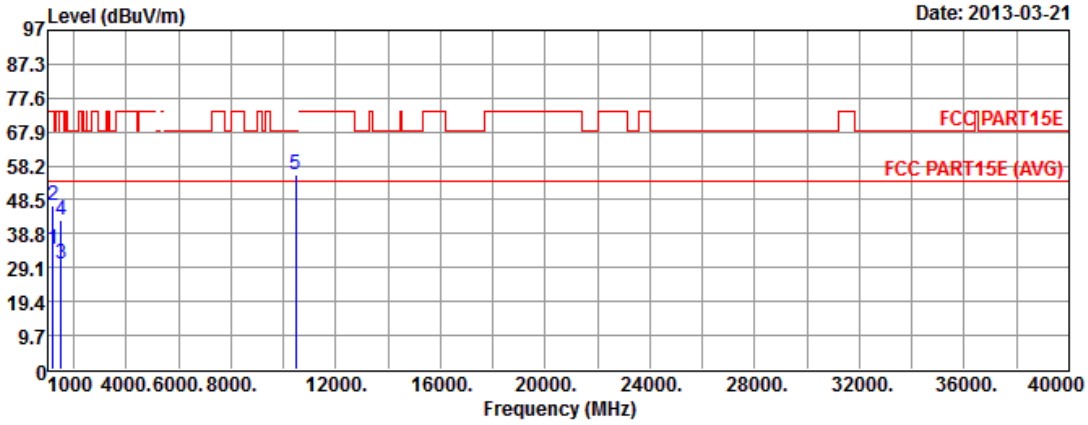
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5190
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.53	-19.47	54.00	41.09	27.94	3.14	37.64	---	---	Average
2	1200.00	42.61	-31.39	74.00	49.17	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.43	-27.57	54.00	31.68	28.00	3.55	36.80	---	---	Average
4	1500.00	40.05	-33.95	74.00	45.30	28.00	3.55	36.80	---	---	Peak
5	10380.00	55.29	-13.01	68.30	43.24	37.73	9.74	35.42	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

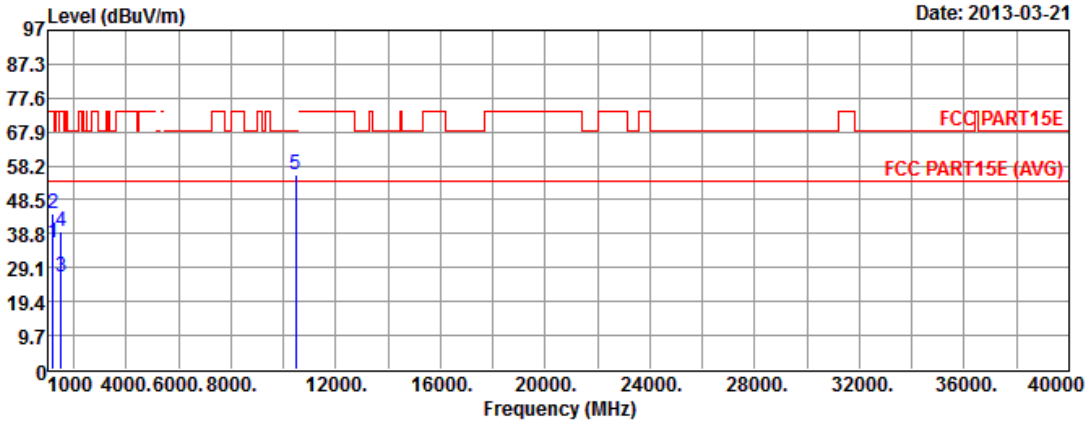
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5230
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.25	-19.75	54.00	40.81	27.94	3.14	37.64	---	---	Average
2	1200.00	46.93	-27.07	74.00	53.49	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.29	-23.71	54.00	35.54	28.00	3.55	36.80	---	---	Average
4	1500.00	42.61	-31.39	74.00	47.86	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.64	-12.66	68.30	43.41	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT40	**Test Freq. (MHz)**	5230
N_{TX}	1	**Polarization**	H



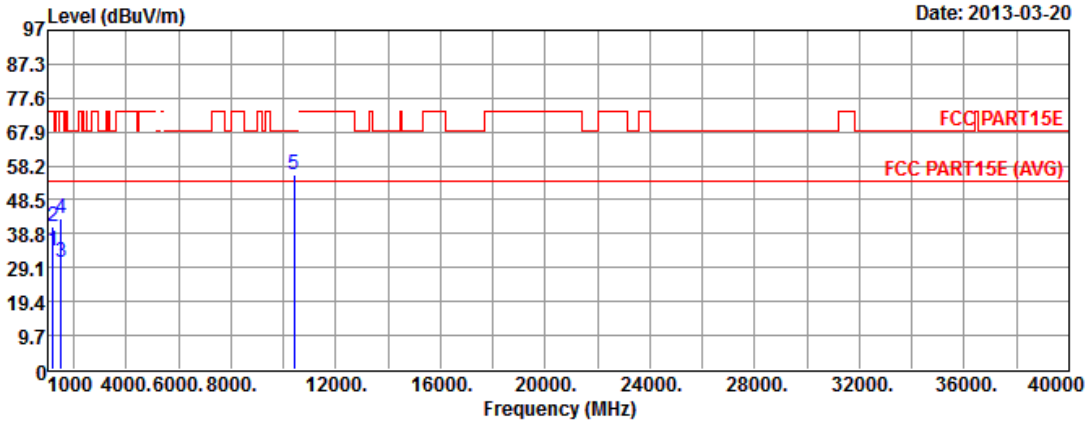
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	36.23	-17.77	54.00	42.79	27.94	3.14	37.64	---	---	Average
2	1200.00	44.51	-29.49	74.00	51.07	27.94	3.14	37.64	---	---	Peak
3	1500.00	26.41	-27.59	54.00	31.66	28.00	3.55	36.80	---	---	Average
4	1500.00	39.55	-34.45	74.00	44.80	28.00	3.55	36.80	---	---	Peak
5	10460.00	55.63	-12.67	68.30	43.40	37.78	9.79	35.34	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

For Model: R6100

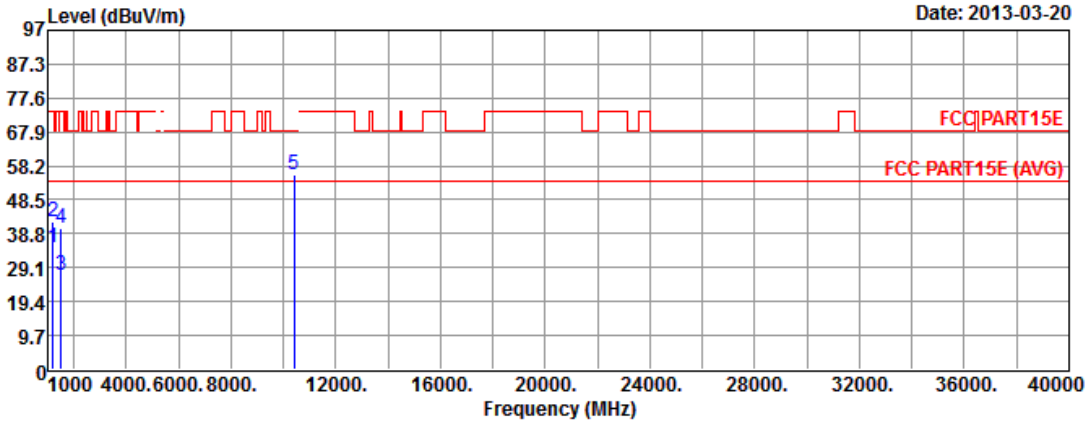
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT80	**Test Freq. (MHz)**	5210
N_{TX}	2	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	33.96	-20.04	54.00	40.52	27.94	3.14	37.64	---	---	Average
2	1200.00	40.65	-33.35	74.00	47.21	27.94	3.14	37.64	---	---	Peak
3	1500.00	30.65	-23.35	54.00	35.90	28.00	3.55	36.80	---	---	Average
4	1500.00	42.98	-31.02	74.00	48.23	28.00	3.55	36.80	---	---	Peak
5	10420.00	55.64	-12.66	68.30	43.50	37.75	9.77	35.38	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT80	**Test Freq. (MHz)**	5210
N_{TX}	2	**Polarization**	H

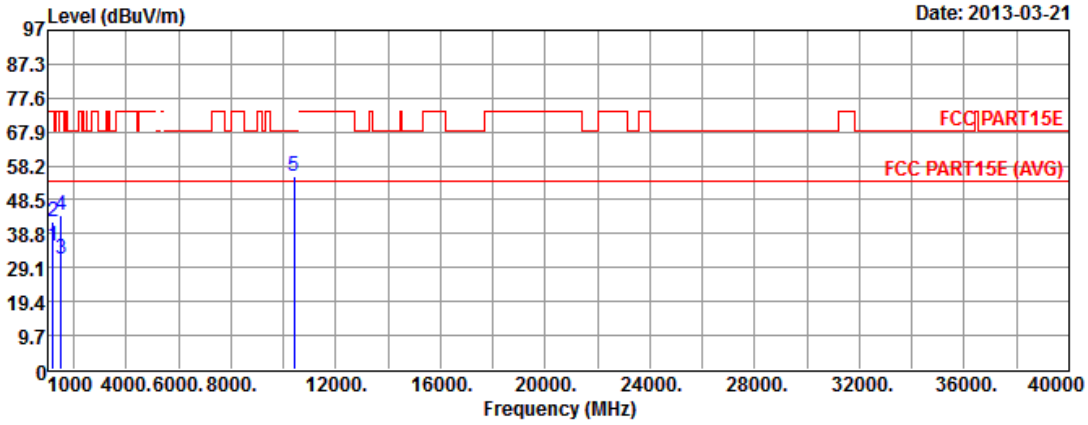


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	34.92	-19.08	54.00	41.48	27.94	3.14	37.64	---	---	Average
2	1200.00	42.45	-31.55	74.00	49.01	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.11	-26.89	54.00	32.36	28.00	3.55	36.80	---	---	Average
4	1500.00	40.15	-33.85	74.00	45.40	28.00	3.55	36.80	---	---	Peak
5	10420.00	55.81	-12.49	68.30	43.67	37.75	9.77	35.38	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

For Model: R6000

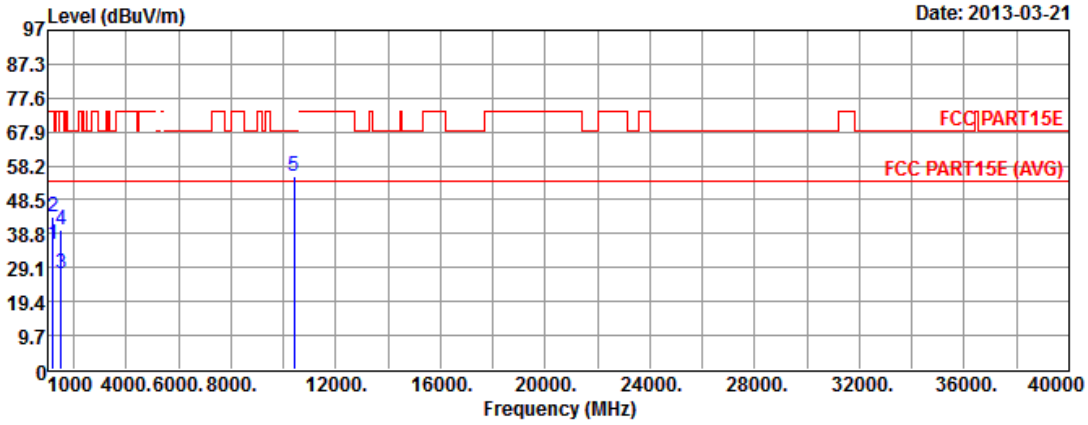
Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT80	**Test Freq. (MHz)**	5210
N_{TX}	1	**Polarization**	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.46	-18.54	54.00	42.02	27.94	3.14	37.64	---	---	Average
2	1200.00	42.28	-31.72	74.00	48.84	27.94	3.14	37.64	---	---	Peak
3	1500.00	31.64	-22.36	54.00	36.89	28.00	3.55	36.80	---	---	Average
4	1500.00	43.96	-30.04	74.00	49.21	28.00	3.55	36.80	---	---	Peak
5	10420.00	55.41	-12.89	68.30	43.27	37.75	9.77	35.38	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	VHT80	**Test Freq. (MHz)**	5210
N_{TX}	1	**Polarization**	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1200.00	35.96	-18.04	54.00	42.52	27.94	3.14	37.64	---	---	Average
2	1200.00	43.81	-30.19	74.00	50.37	27.94	3.14	37.64	---	---	Peak
3	1500.00	27.58	-26.42	54.00	32.83	28.00	3.55	36.80	---	---	Average
4	1500.00	40.11	-33.89	74.00	45.36	28.00	3.55	36.80	---	---	Peak
5	10420.00	55.29	-13.01	68.30	43.15	37.75	9.77	35.38	---	---	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.8 Frequency Stability

3.8.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
☒ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
☒ N/A
IEEE Std. 802.11n-2009
☒ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

3.8.2 Measuring Instruments

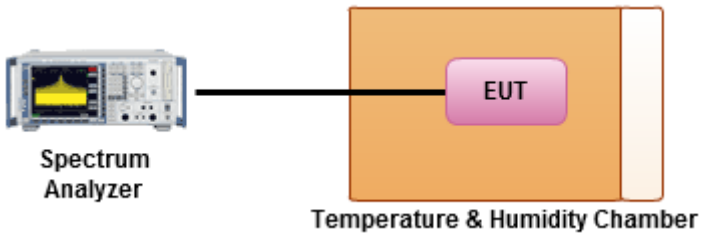
Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
	☒ Frequency stability with respect to ambient temperature
	☒ Frequency stability when varying supply voltage
☒	For conducted measurement.
	☒ For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
☐	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.8.4 Test Setup

Frequency Stability



3.8.5 Test Result of Frequency Stability

For Model: R6100

Frequency Stability Result			
Mode		**Frequency Stability (ppm)**	
Condition	**Freq. (MHz)**	**Test Frequency (MHz)**	**Frequency Stability (ppm)**
$T_{20°C}$Vmax	5200	5200.00857	1.6481
$T_{20°C}$Vmin	5200	5200.03020	5.8077
$T_{50°C}$Vnom	5200	5200.02459	4.7288
$T_{40°C}$Vnom	5200	5199.99075	-1.7788
$T_{30°C}$Vnom	5200	5200.00209	0.4019
$T_{20°C}$Vnom	5200	5200.00483	0.9288
$T_{10°C}$Vnom	5200	5200.00588	1.1308
$T_{0°C}$Vnom	5200	5200.00465	0.8942
$T_{-10°C}$Vnom	5200	5200.00994	1.9115
$T_{-20°C}$Vnom	5200	5200.00904	1.7385
Limit (ppm)		20	
Result		**Complied**	
Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.			

For Model: R6000

Frequency Stability Result			
Mode		**Frequency Stability (ppm)**	
Condition	**Freq. (MHz)**	**Test Frequency (MHz)**	**Frequency Stability (ppm)**
$T_{20°C}$Vmax	5200	5200.00857	1.6481
$T_{20°C}$Vmin	5200	5200.03020	5.8077
$T_{50°C}$Vnom	5200	5200.02459	4.7288
$T_{40°C}$Vnom	5200	5199.99075	-1.7788
$T_{30°C}$Vnom	5200	5200.00209	0.4019
$T_{20°C}$Vnom	5200	5200.00483	0.9288
$T_{10°C}$Vnom	5200	5200.00588	1.1308
$T_{0°C}$Vnom	5200	5200.00465	0.8942
$T_{-10°C}$Vnom	5200	5200.00994	1.9115
$T_{-20°C}$Vnom	5200	5200.00904	1.7385
Limit (ppm)		20	
Result		**Complied**	
Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.			

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9 kHz ~ 2.75 GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz – 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9 kHz ~ 30 MHz	Apr. 16, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	CB049	9 kHz ~ 30 MHz	Apr. 25, 2012	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP	100055	9Kz – 40GHz	Jun. 06, 2012	Radiation (03CH05-HY)
Receiver	R&S	ESIB26	100337	20Hz – 26.5GHz	Jun.21, 2012	Radiation (03CH05-HY)
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH05-HY	30 MHz - 1 GHz 3m	N/A	Radiation (03CH05-HY)
Amplifier	COM-POWER	PA-103	161241	1 MHz ~ 1 GHz	Feb. 26, 2013	Radiation (03CH05-HY)
Amplifier	Agilent	8449B	3008A02665	1GHz – 26.5 GHz	Aug. 28, 2012	Radiation (03CH05-HY)
Horn Antenna	ETS-LINDGREN	3117	66584	1GHz~18GHz	Aug. 09, 2012	Radiation (03CH05-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH05-HY
RF Cable-R03m	Jye Bao	RG142	03CH05-HY	30 MHz - 1 GHz	Oct. 14, 2012	Radiation (03CH05-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX104	03CH05-HY	1GHz~40GHz	Oct. 14, 2012	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30 MHz - 1 GHz	Oct. 06, 2012	Radiation (03CH05-HY)
Turn Table	HD	HD100	420/611	0 - 360 degree	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	HD100	240/666	1 m - 4 m	N/A	Radiation (03CH05-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2011	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/0001	9 kHz - 30 MHz	Jul. 03, 2012	Radiation (03CH05-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101486	9KHz~40GHz	Nov. 14, 2012	Conducted (TH01-HY)
Spectrum Analyzer	R&S	FSP 40	100593	9KHz ~ 40GHz	Aug. 14, 2012	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Jun. 19, 2012	Conducted (TH01-HY)
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 02, 2012	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100℃	Nov. 21, 2012	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 26, 2012	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	Sep. 08, 2012	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	Sep. 08, 2012	Conducted (TH01-HY)
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)

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