

FCC Test Report

Equipment : D-Link DWA-172 Wireless AC600
Dual Band High-Gain USB Adapter

Brand Name : D-LINK

Model No. : DWA-172

FCC ID : KA2WA172A1

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz

FCC Classification : NII

Applicant : D-Link Corporation

Manufacturer : No. 289, Xinhua 3rd Rd., Neihu District,
Taipei City 11494, Taiwan

Operate Mode : Client without radar detection

The product sample received on Nov. 21, 2013 and completely tested on Jan. 09, 2014. 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:

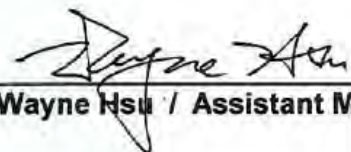

Wayne Hsu / Assistant Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Support Equipment.....	7
1.3	Testing Applied Standards	7
1.4	Testing Location Information.....	7
1.5	Measurement Uncertainty	8
2	TEST CONFIGURATION OF EUT	9
2.1	The Worst Case Modulation Configuration	9
2.2	The Worst Case Power Setting Parameter	9
2.3	The Worst Case Measurement Configuration.....	11
2.4	Test Setup Diagram	12
3	TRANSMITTER TEST RESULT	14
3.1	AC Power-line Conducted Emissions	14
3.2	Emission Bandwidth	17
3.3	RF Output Power.....	21
3.4	Peak Power Spectral Density.....	26
3.5	Peak Excursion	31
3.6	Transmitter Bandedge Emissions	33
3.7	Transmitter Unwanted Emissions.....	38
3.8	Frequency Stability.....	131
4	TEST EQUIPMENT AND CALIBRATION DATA	133
APPENDIX A. TEST PHOTOS		
APPENDIX B. PHOTOGRAPHS OF EUT		

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]: 0.1873850MHz 52.44 (Margin 11.71dB) – QP 40.35 (Margin 13.80dB) - AV	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:21.95 / 40M:45.44 80M: 83.60	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:14.73 5250-5350MHz:14.79 5470-5725MHz:16.32	Power [dBm] 5150-5250MHz:17	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:3.91 5250-5350MHz:3.87 5470-5725MHz:4.97	PPSD [dBm/MHz] 5150-5250MHz:4	Complied
3.5	15.407(a)	Peak Excursion	8.59 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Bandedge Emissions	Restricted Bands [dBuV/m at 1m]: 5149.94MHz 80.05 (Margin 3.49dB) - PK 62.53 (Margin 1.01dB) - AV	Non-Restricted Bands: ≤ -27dBm (83.54dBuV/m@1m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Unwanted Emissions	Restricted Bands [dBuV/m at 1m]: 10520.000MHz 73.40 (Margin 10.14dB) - PK 60.82 (Margin 2.72dB) - AV	Non-Restricted Bands: ≤ -27dBm (83.54dBuV/m@1m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	9.9614 ppm	Signal shall remain in-band	Complied



SPORTON INTERNATIONAL INC.
TEL : 886-3-327-3456
FAX : 886-3-327-0973

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)
5150-5250	a	5180-5240	36-48 [4]	1	14.73
5250-5350		5260-5320	52-64 [4]	1	14.79
5470-5725		5500-5700	100-140 [8]	1	15.64
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	14.50 / 12.38
5250-5350	ac (VHT20)	5260-5320	52-64 [4]	1	14.63 / 12.45
5470-5725		5500-5700	100-140 [8]	1	14.48 / 12.45
5150-5250	n (HT40)	5190-5230	38-46 [2]	1	14.34 / 12.40
5250-5350	ac (VHT40)	5270-5310	54-62 [2]	1	14.65 / 12.48
5470-5725		5510-5670	102-134 [3]	1	14.34 / 12.48
5150-5250	ac (VHT80)	5210	48 [1]	1	12.42
5250-5350		5290	58 [1]	1	13.48
5470-5725		5530	106 [1]	1	16.32

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

1.1.2 Antenna Information

Antenna Category	
☒	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	Gain (dBi)
1	External	Dipole	3.0

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)
☒ 100% - IEEE 802.11a	0
☒ 100% - IEEE 802.11n (HT20)	0
☒ 100% - IEEE 802.11n (HT40)	0
☒ 100% - IEEE 802.11ac (VHT20)	0
☒ 100% - IEEE 802.11ac (VHT40)	0
☒ 100% - IEEE 802.11ac (VHT80)	0

1.1.5 EUT Operational Condition

Supply Voltage	☐ AC mains	☒ DC	
Type of DC Source	☐ Internal DC supply	☒ From System	☐ Battery

1.2 Support Equipment

Support Equipment - AC Conduction Test				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NoteBook PC	DELL	E5430	DoC

Support Equipment - RF Conducted Test				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NoteBook PC	DELL	E5520	DoC

Support Equipment - Radiated Emission Test				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NoteBook PC	DELL	E5530	DoC

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 644545 D01
- ♦ FCC KDB 644545 D02
- ♦ FCC KDB 662911

1.4 Testing Location Information

Testing Location				
☒	HWA YA	ADD : No. 52, Hwa Ya 1 st 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
AC Conduction		CO04-HY	Zeus	24°C / 51%
RF Conducted		TH06-HY	Wei	24.3°C / 62%
Radiated Emission		03CH02-HY	Daniel	21.3°C / 53%

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
AC power-line conducted emissions		±2.26 dB
Emission bandwidth, 26dB bandwidth		±1.42 %
RF output power, conducted		±0.63 dB
Power density, conducted		±0.81 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.38 dB
	0.15 – 30 MHz	±0.42 dB
	30 – 1000 MHz	±0.51 dB
	1 – 18 GHz	±0.67 dB
	18 – 40 GHz	±0.83 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.49 dB
	0.15 – 30 MHz	±2.28 dB
	30 – 1000 MHz	±2.56 dB
	1 – 18 GHz	±3.59 dB
	18 – 40 GHz	±3.82 dB
	40 – 200 GHz	N/A
Temperature		±0.8 °C
Humidity		±3 %
DC and low frequency voltages		±3 %
Time		±1.42 %
Duty Cycle		±1.42 %

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M0-7	1	M0-7	MCS 0
HT40,M0-7	1	M0-7	MCS 0
VHT20,M0-8	1	M0-8	MCS 0
VHT40,M0-9	1	M0-9	MCS 0
VHT80,M0-9	1	M0-9	MCS 0

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Test Software Version	Realtek 11ac8811A USB WLAN MP Diagnostic Program_0.0041.20130606						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		5180	5200	5240	5190	5230	5210
11a,6-54Mbps	1	49	48	46	-	-	-
HT20,M0-7	1	49	48	46	-	-	-
HT40,M0-7	1	-	-	-	49	47	-
VHT20,M0-8	1	45	44	42	-	-	-
VHT40,M0-9	1	-	-	-	46	44	-
VHT80,M0-9	1	-	-	-	-	-	44

The Worst Case Power Setting Parameter (5250-5350MHz band)

Test Software Version		Realtek 11ac8811A USB WLAN MP Diagnostic Program_0.0041.20130606					
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		5260	5300	5320	5270	5310	5290
11a,6-54Mbps	1	45	44	43	-	-	-
HT20,M0-7	1	45	44	43	-	-	-
HT40,M0-7	1	-	-	-	45	45	-
VHT20,M0-8	1	41	40	38	-	-	-
VHT40,M0-9	1	-	-	-	41	41	-
VHT80,M0-9	1	-	-	-	-	-	44

The Worst Case Power Setting Parameter (5470-5725MHz band)

Test Software Version		Realtek 11ac8811A USB WLAN MP Diagnostic Program_0.0041.20130606					
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		NCB: 80MHz
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	1	50	48	47	-	-	-
HT20,M0-7	1	48	46	45	-	-	-
HT40,M0-7	1	-	-	-	48	47	47
VHT20,M0-8	1	43	42	42	-	-	-
VHT40,M0-9	1	-	-	-	44	44	43
VHT80,M0-9	1	-	-	-	-	-	50

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	EUT with Notebook (WiFi link)

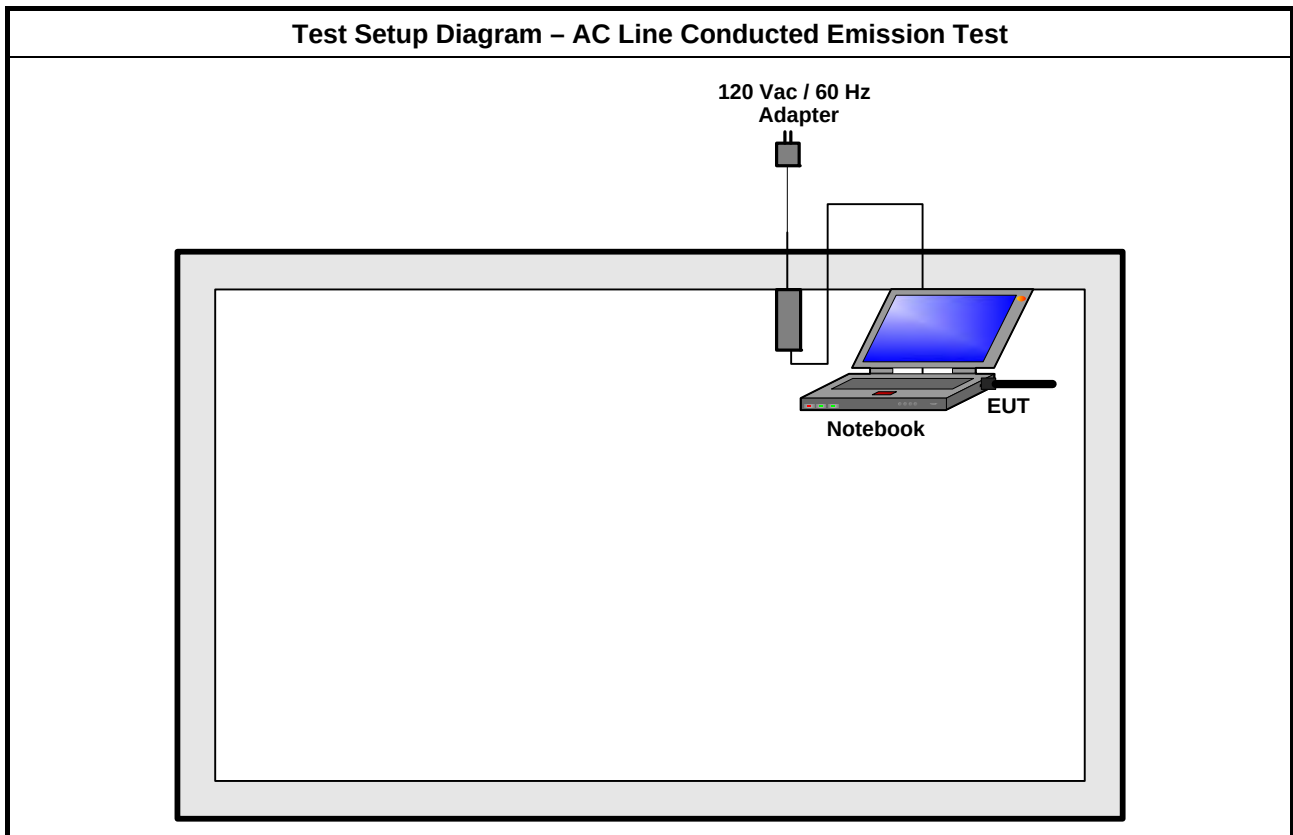
Note: The antenna of the EUT can be set to horizontal or vertical direction. The worse Polarity is horizontal in this report.

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

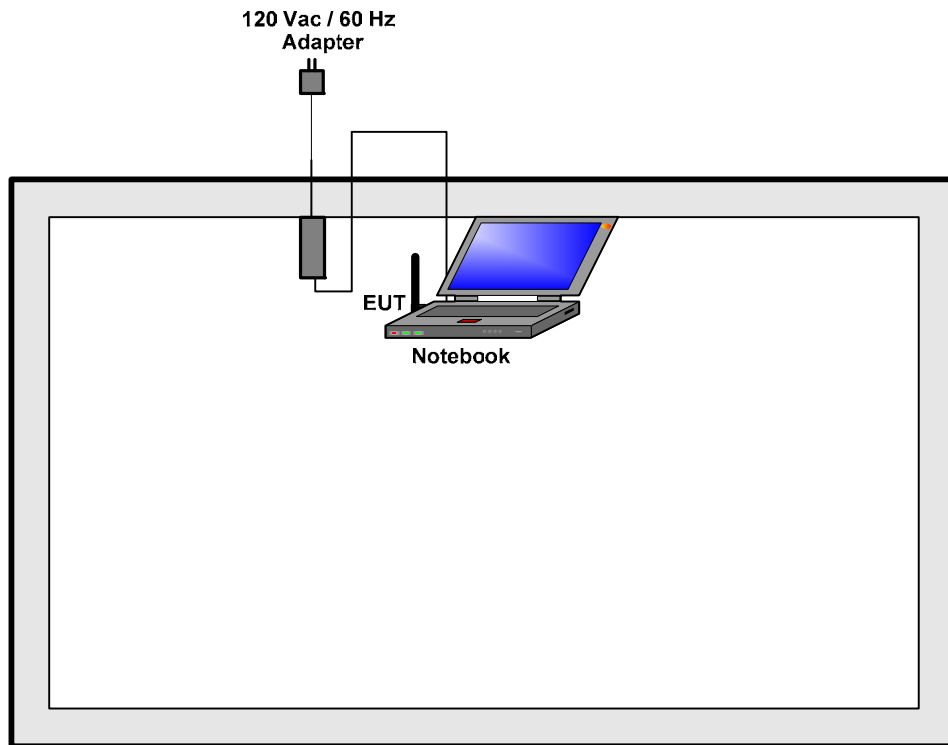
The Worst Case Mode for Following Conformance Tests		
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions	
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), 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 planes 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.	
Operating Mode	☒ 1. EUT with Notebook (WiFi link)	
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80	
Orthogonal Planes of EUT	X Plane	Y Plane
		

Note: The antenna of the EUT can be set to horizontal or vertical direction. The worse Polarity is vertical in this report.

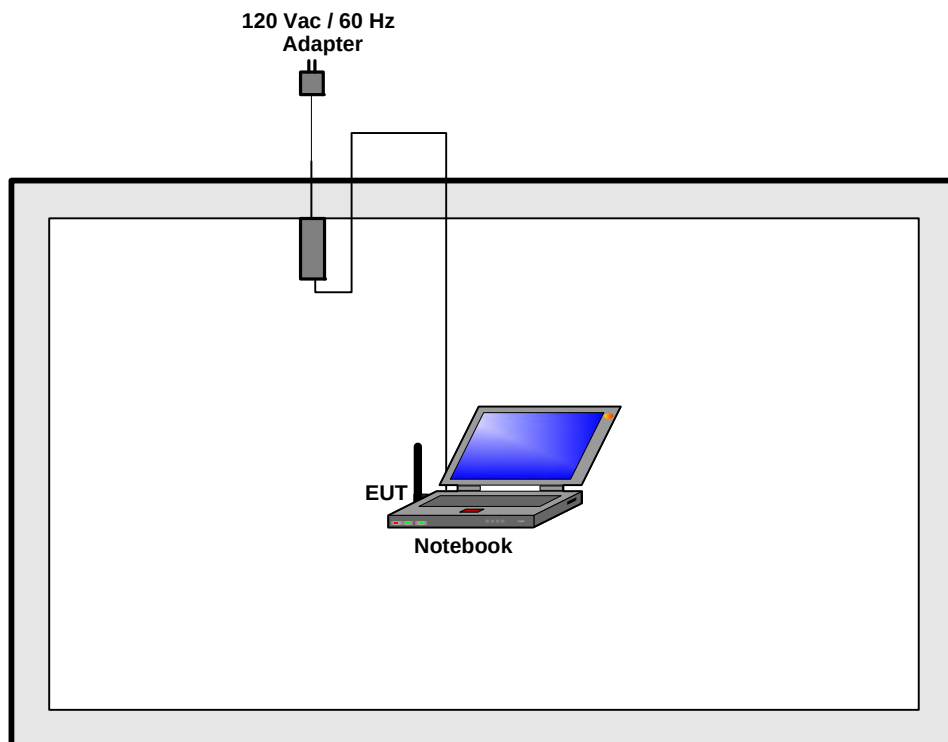
2.4 Test Setup Diagram



Test Setup Diagram - Radiated Test (9kHz~1GHz)



Test Setup Diagram - Radiated Test (Above 1GHz)



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.

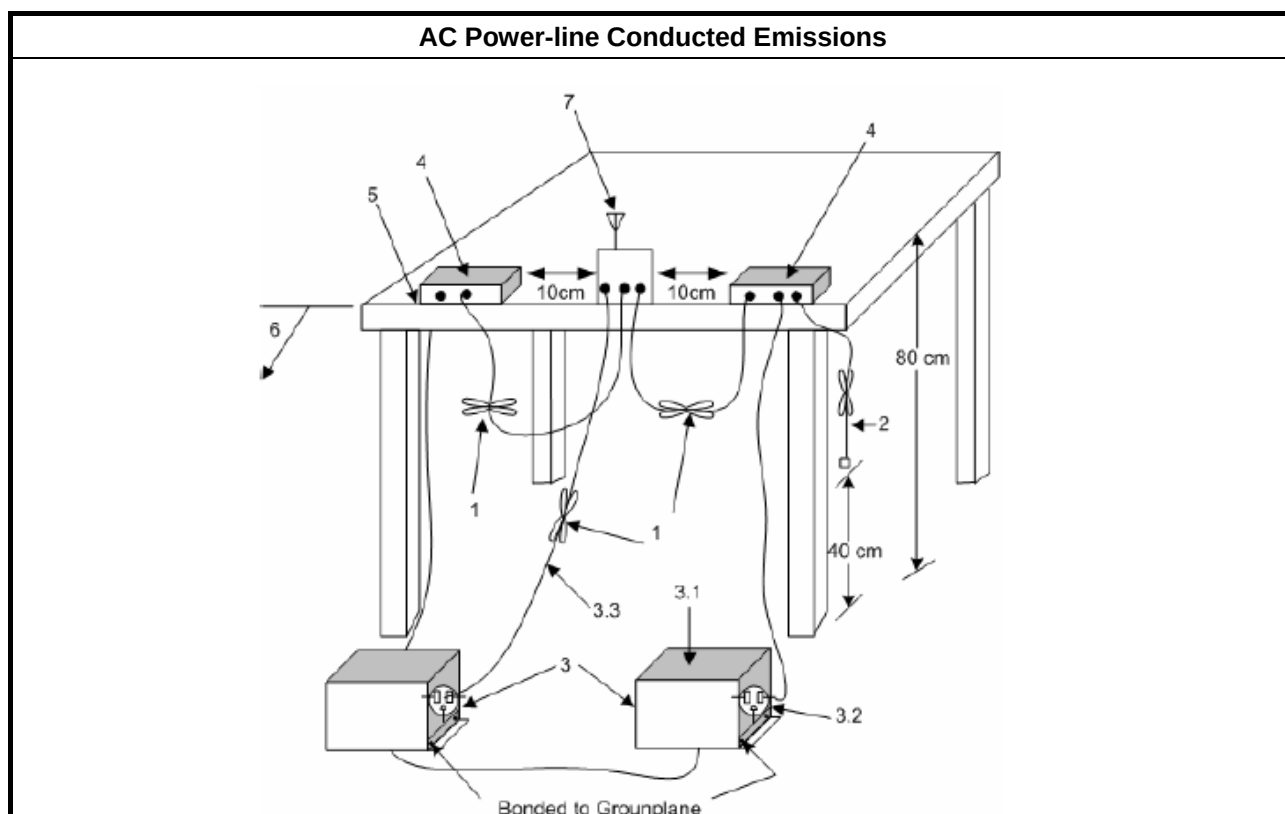
3.1.2 Measuring Instruments

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

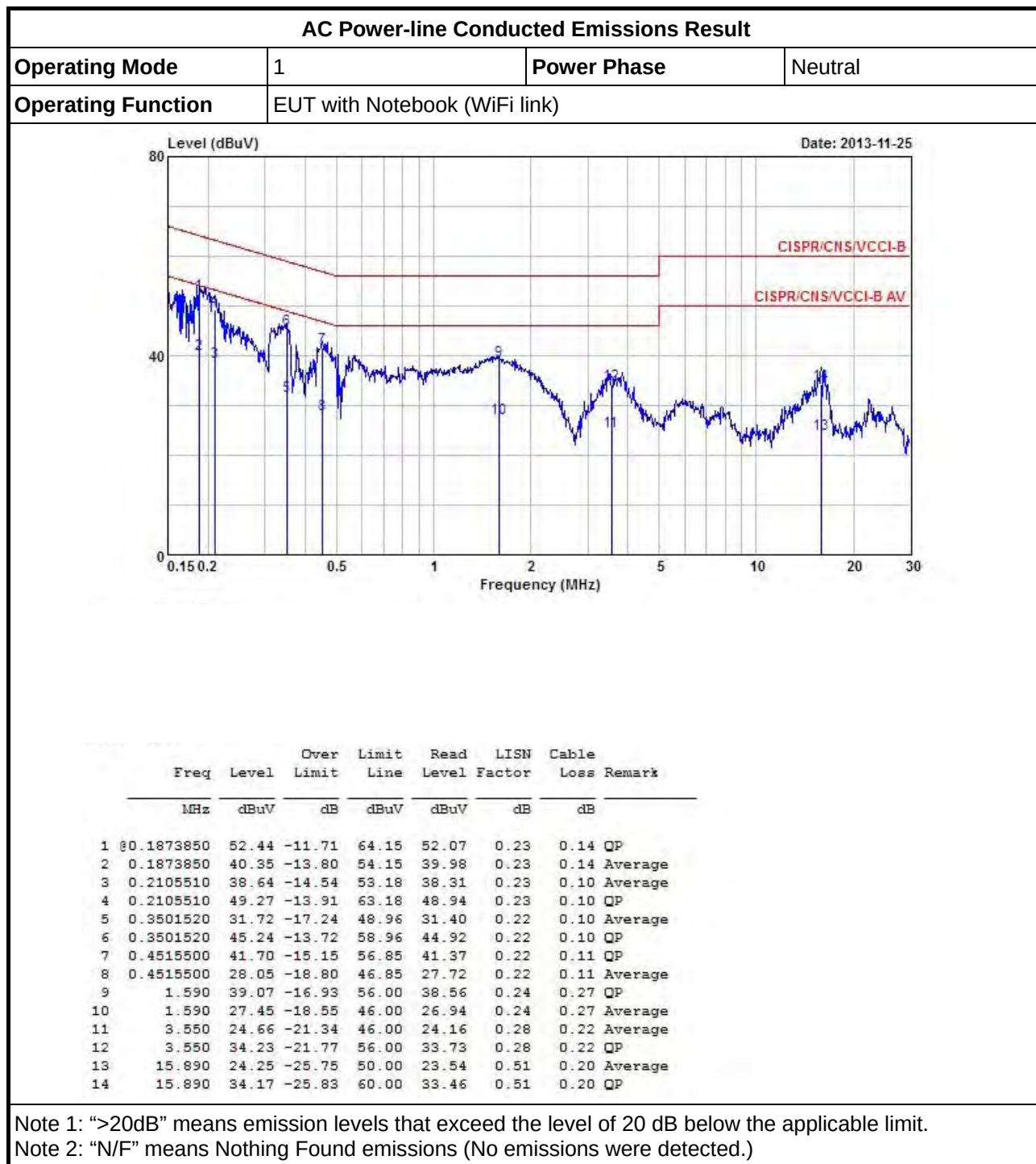
3.1.3 Test Procedures

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

3.1.4 Test Setup

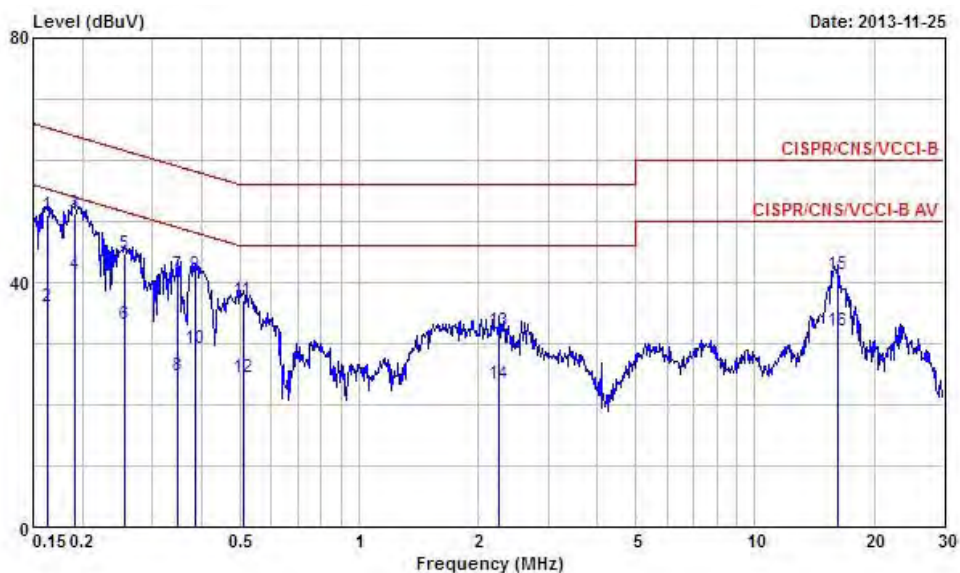


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	EUT with Notebook (WiFi link)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1632710	50.97	-14.33	65.30	50.64	0.11	0.22	QP
2	0.1632710	36.13	-19.17	55.30	35.80	0.11	0.22	Average
3	0.1903870	51.21	-12.81	64.02	50.97	0.11	0.13	QP
4	0.1903870	41.27	-12.75	54.02	41.03	0.11	0.13	Average
5	0.2547970	44.67	-16.93	61.60	44.46	0.11	0.10	QP
6	0.2547970	33.16	-18.44	51.60	32.95	0.11	0.10	Average
7	0.3464610	41.30	-17.75	59.05	41.10	0.10	0.10	QP
8	0.3464610	24.69	-24.36	49.05	24.49	0.10	0.10	Average
9	0.3872360	41.33	-16.79	58.12	41.13	0.10	0.10	QP
10	0.3872360	29.27	-18.85	48.12	29.07	0.10	0.10	Average
11	0.5100690	37.09	-18.91	56.00	36.86	0.10	0.13	QP
12	0.5100690	24.53	-21.47	46.00	24.30	0.10	0.13	Average
13	2.260	32.07	-23.93	56.00	31.66	0.13	0.28	QP
14	2.260	23.39	-22.61	46.00	22.98	0.13	0.28	Average
15	16.230	41.23	-18.77	60.00	40.74	0.29	0.20	QP
16	16.230	32.06	-17.94	50.00	31.57	0.29	0.20	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.)

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.

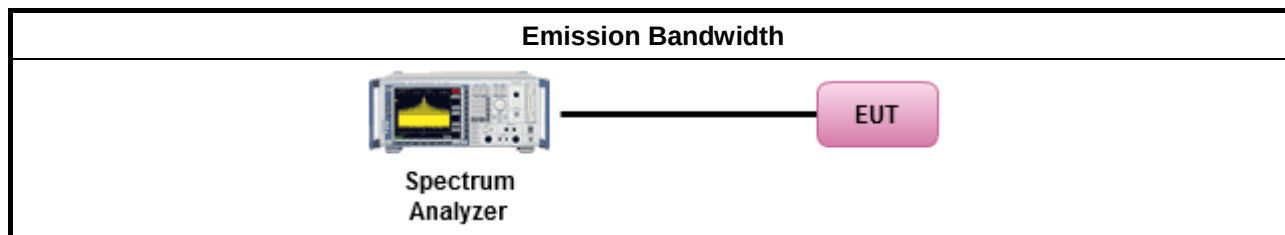
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

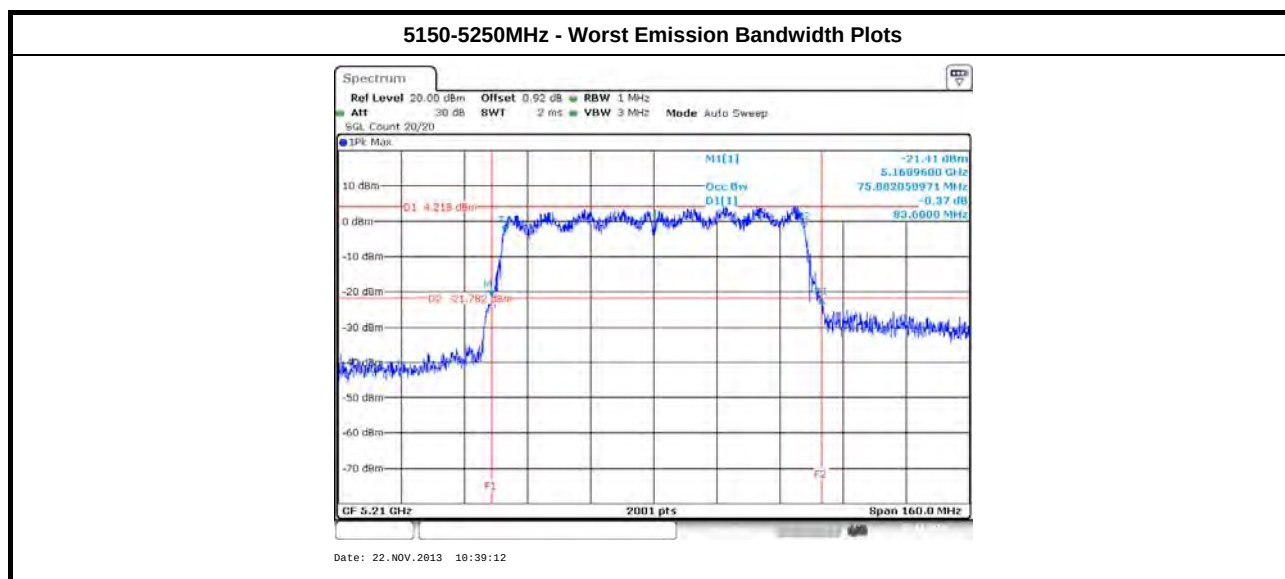
Test Method	
☒	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
☒	For 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



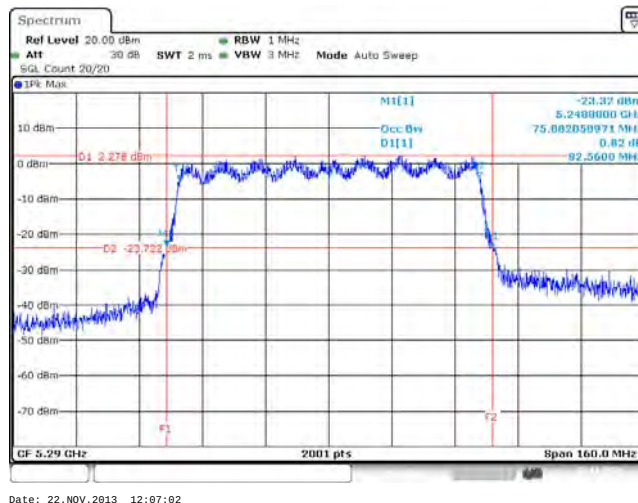
3.2.5 Test Result of Emission Bandwidth

UNII Emission Bandwidth Result (5150-5250MHz band)						
Condition			Emission Bandwidth (MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth	26dB Bandwidth	Power Limit	
					99% BW	26dB BW
11a	1	5180	17.04	20.42	16.31	17.00
11a	1	5200	16.54	19.77	16.19	16.96
11a	1	5240	16.66	20.10	16.22	17.00
HT20,M0-7	1	5180	17.71	20.47	16.48	17.00
HT20,M0-7	1	5200	17.64	20.20	16.46	17.00
HT20,M0-7	1	5240	17.89	20.90	16.53	17.00
HT40,M0-7	1	5190	36.74	44.68	17.00	17.00
HT40,M0-7	1	5230	36.74	45.12	17.00	17.00
VHT20,M0-8	1	5180	17.66	20.20	16.47	17.00
VHT20,M0-8	1	5200	17.89	20.75	16.53	17.00
VHT20,M0-8	1	5240	17.96	21.50	16.54	17.00
VHT40,M0-9	1	5190	36.82	44.24	17.00	17.00
VHT40,M0-9	1	5230	36.82	44.44	17.00	17.00
VHT80,M0-9	1	5210	75.88	83.60	17.00	17.00
Result			Complied			

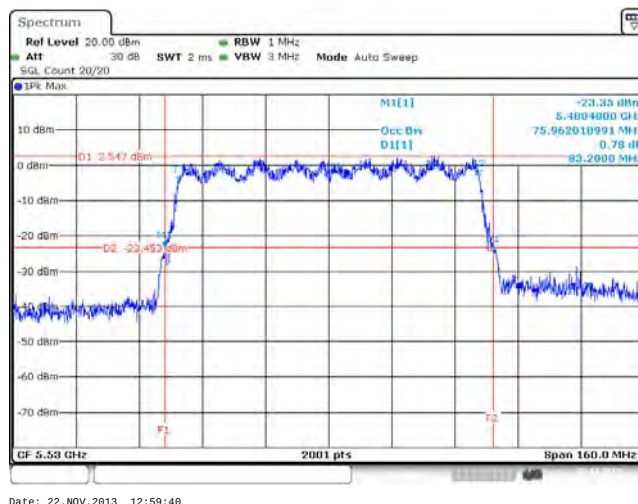


UNII Emission Bandwidth Result (5250-5350MHz band)						
Condition			Emission Bandwidth (MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth	26dB Bandwidth	Power Limit	
					99% BW	26dB BW
11a	1	5260	16.71	20.25	20.23	21.00
11a	1	5300	16.94	20.57	20.29	21.00
11a	1	5320	16.41	19.70	20.15	20.94
HT20,M0-7	1	5260	17.71	20.30	20.48	21.00
HT20,M0-7	1	5300	17.66	19.95	20.47	21.00
HT20,M0-7	1	5320	17.59	19.57	20.45	20.92
HT40,M0-7	1	5270	36.94	45.44	23.67	21.00
HT40,M0-7	1	5310	36.98	44.92	23.68	21.00
VHT20,M0-8	1	5260	17.86	20.65	20.52	21.00
VHT20,M0-8	1	5300	18.06	21.20	20.57	21.00
VHT20,M0-8	1	5320	17.71	20.42	20.48	21.00
VHT40,M0-9	1	5270	36.82	43.68	23.66	21.00
VHT40,M0-9	1	5310	36.74	44.56	23.65	21.00
VHT80,M0-9	1	5290	75.88	82.56	24.00	21.00
Result			Complied			

5250-5350MHz - Worst Emission Bandwidth Plots



UNII Emission Bandwidth Result (5470-5725MHz band)						
Condition			Emission Bandwidth (MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth	26dB Bandwidth	Power Limit	
					99% BW	26dB BW
11a	1	5500	16.64	20.12	20.21	21.00
11a	1	5580	16.54	19.47	20.19	20.89
11a	1	5700	16.64	19.50	20.21	20.90
HT20,M0-7	1	5500	17.71	20.90	20.48	21.00
HT20,M0-7	1	5580	17.99	21.95	20.55	21.00
HT20,M0-7	1	5700	17.81	21.07	20.51	21.00
HT40,M0-7	1	5510	36.70	45.00	21.00	21.00
HT40,M0-7	1	5550	36.78	44.36	21.00	21.00
HT40,M0-7	1	5670	36.86	44.72	21.00	21.00
VHT20,M0-8	1	5500	17.71	21.52	20.48	21.00
VHT20,M0-8	1	5580	17.64	20.32	20.46	21.00
VHT20,M0-8	1	5700	17.64	20.30	20.46	21.00
VHT40,M0-9	1	5510	36.74	45.12	21.00	21.00
VHT40,M0-9	1	5550	36.78	45.04	21.00	21.00
VHT40,M0-9	1	5670	36.86	44.80	21.00	21.00
VHT80,M0-9	1	5530	75.96	83.20	21.00	21.00
Result			Complied			

5470-5725MHz - 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.	

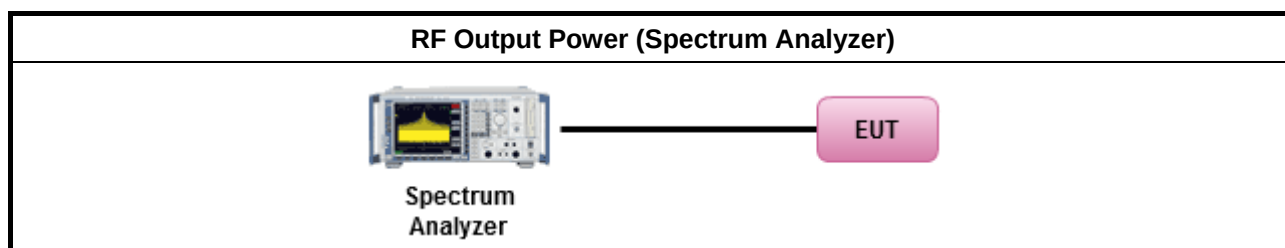
3.3.2 Measuring Instruments

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 $\geq 98\%$ 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)
	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 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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

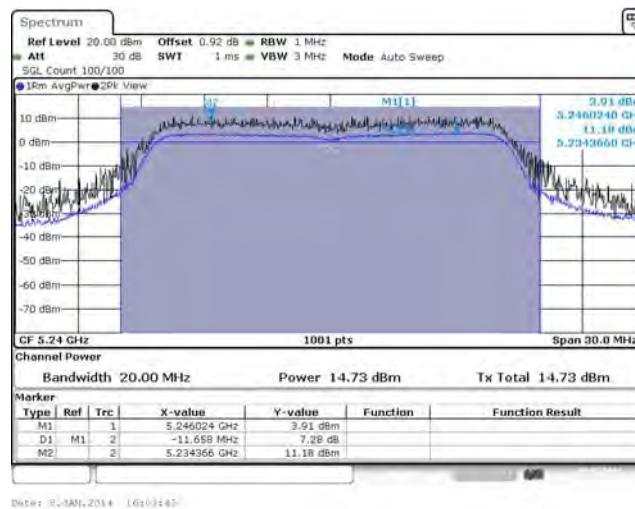
3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Maximum Conducted Output Power (5150-5250MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Output Power	Power Limit	Antenna Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5180	14.52	17.00	3.0	17.52	22.31
11a	1	5200	14.63	16.96	3.0	17.63	22.19
11a	1	5240	14.73	17.00	3.0	17.73	22.22
HT20,M0-7	1	5180	14.40	17.00	3.0	17.40	22.48
HT20,M0-7	1	5200	14.47	17.00	3.0	17.47	22.46
HT20,M0-7	1	5240	14.50	17.00	3.0	17.50	22.53
HT40,M0-7	1	5190	14.34	17.00	3.0	17.34	23.00
HT40,M0-7	1	5230	14.32	17.00	3.0	17.32	23.00
VHT20,M0-8	1	5180	12.19	17.00	3.0	15.19	22.47
VHT20,M0-8	1	5200	12.12	17.00	3.0	15.12	22.53
VHT20,M0-8	1	5240	12.38	17.00	3.0	15.38	22.54
VHT40,M0-9	1	5190	12.36	17.00	3.0	15.36	23.00
VHT40,M0-9	1	5230	12.40	17.00	3.0	15.40	23.00
VHT80,M0-9	1	5210	12.42	17.00	3.0	15.42	23.00
Result			Complied				

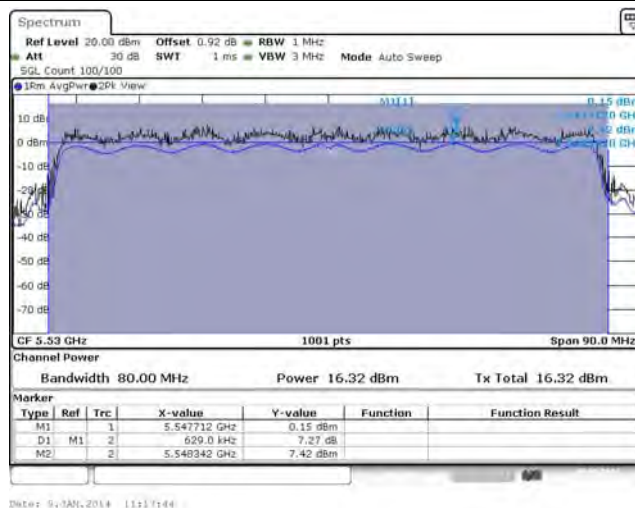
5150-5250MHz - Worst RF Output Power Plots



Maximum Conducted Output Power (5250-5350MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Output Power	Power Limit	Antenna Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5260	14.52	21.00	3.0	17.52	26.23
11a	1	5300	14.46	21.00	3.0	17.46	26.29
11a	1	5320	14.79	20.94	3.0	17.79	26.15
HT20,M0-7	1	5260	14.34	21.00	3.0	17.34	26.48
HT20,M0-7	1	5300	14.63	21.00	3.0	17.63	26.47
HT20,M0-7	1	5320	14.38	20.92	3.0	17.38	26.45
HT40,M0-7	1	5270	14.48	21.00	3.0	17.48	27.00
HT40,M0-7	1	5310	14.65	21.00	3.0	17.65	27.00
VHT20,M0-8	1	5260	12.34	21.00	3.0	15.34	26.52
VHT20,M0-8	1	5300	12.45	21.00	3.0	15.45	26.57
VHT20,M0-8	1	5320	12.18	21.00	3.0	15.18	26.48
VHT40,M0-9	1	5270	12.48	21.00	3.0	15.48	27.00
VHT40,M0-9	1	5310	12.41	21.00	3.0	15.41	27.00
VHT80,M0-9	1	5290	13.48	21.00	3.0	16.48	27.00
Result			Complied				

5250-5350MHz - Worst RF Output Power Plots


Maximum Conducted Output Power (5470-5725MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Output Power	Power Limit	Antenna Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5500	15.64	21.00	3.0	18.64	26.21
11a	1	5580	15.52	20.89	3.0	18.52	26.19
11a	1	5700	15.49	20.90	3.0	18.49	26.21
HT20,M0-7	1	5500	14.39	21.00	3.0	17.39	26.48
HT20,M0-7	1	5580	14.23	21.00	3.0	17.23	26.55
HT20,M0-7	1	5700	14.48	21.00	3.0	17.48	26.51
HT40,M0-7	1	5510	14.34	21.00	3.0	17.34	27.00
HT40,M0-7	1	5550	14.20	21.00	3.0	17.20	27.00
HT40,M0-7	1	5670	14.19	21.00	3.0	17.19	27.00
VHT20,M0-8	1	5500	12.45	21.00	3.0	15.45	26.48
VHT20,M0-8	1	5580	12.25	21.00	3.0	15.25	26.46
VHT20,M0-8	1	5700	12.19	21.00	3.0	15.19	26.46
VHT40,M0-9	1	5510	12.34	21.00	3.0	15.34	27.00
VHT40,M0-9	1	5550	12.48	21.00	3.0	15.48	27.00
VHT40,M0-9	1	5670	12.23	21.00	3.0	15.23	27.00
VHT80,M0-9	1	5530	16.32	21.00	3.0	19.32	27.00
Result			Complied				

5470-5725MHz - Worst RF Output Power Plots


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.	

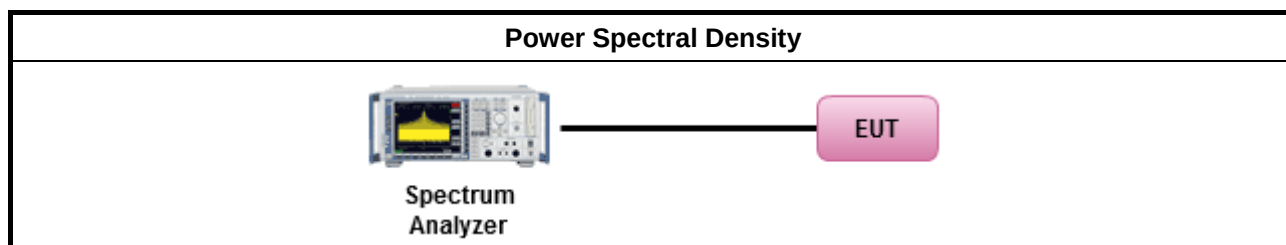
3.4.2 Measuring Instruments

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, F5) 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).
☐	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 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (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.

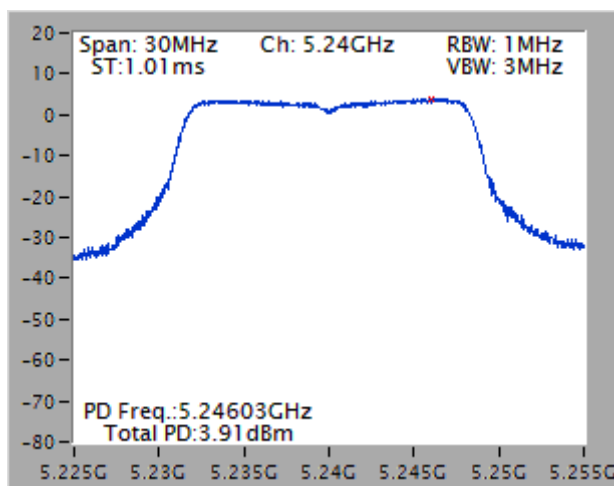
3.4.4 Test Setup



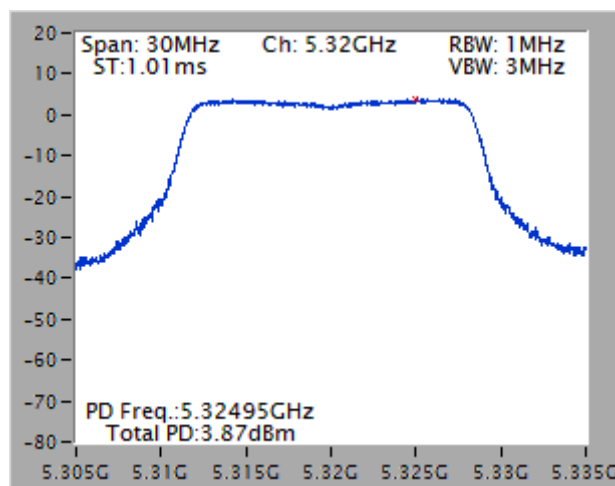
3.4.5 Test Result of Peak Power Spectral Density

Peak Power Spectral Density Result (5150-5250MHz band)						
Condition			Peak Power Spectral Density (dBm/MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	Power Spectral Density	PSD Limit	EIRP PSD	EIRP Limit
11a	1	5180	3.75	4.00	6.75	10.00
11a	1	5200	3.81	4.00	6.81	10.00
11a	1	5240	3.91	4.00	6.91	10.00
HT20,M0-7	1	5180	3.37	4.00	6.37	10.00
HT20,M0-7	1	5200	3.42	4.00	6.42	10.00
HT20,M0-7	1	5240	3.47	4.00	6.47	10.00
HT40,M0-7	1	5190	0.24	4.00	3.24	10.00
HT40,M0-7	1	5230	0.16	4.00	3.16	10.00
VHT20,M0-8	1	5180	1.33	4.00	4.33	10.00
VHT20,M0-8	1	5200	1.16	4.00	4.16	10.00
VHT20,M0-8	1	5240	1.32	4.00	4.32	10.00
VHT40,M0-9	1	5190	-1.83	4.00	1.17	10.00
VHT40,M0-9	1	5230	-1.76	4.00	1.24	10.00
VHT80,M0-9	1	5210	-3.79	4.00	-0.79	10.00
Result			Complied			

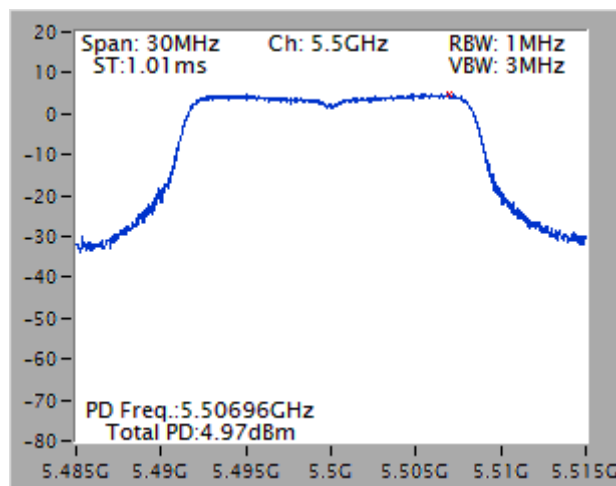
5150-5250MHz - Worst Power Spectral Density Plots



Peak Power Spectral Density Result (5250-5350MHz band)						
Condition			Peak Power Spectral Density (dBm/MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	Power Spectral Density	PSD Limit	EIRP PSD	EIRP Limit
11a	1	5260	3.84	11.00	6.84	17.00
11a	1	5300	3.69	11.00	6.69	17.00
11a	1	5320	3.87	11.00	6.87	17.00
HT20,M0-7	1	5260	3.30	11.00	6.30	17.00
HT20,M0-7	1	5300	3.48	11.00	6.48	17.00
HT20,M0-7	1	5320	3.35	11.00	6.35	17.00
HT40,M0-7	1	5270	0.15	11.00	3.15	17.00
HT40,M0-7	1	5310	0.58	11.00	3.58	17.00
VHT20,M0-8	1	5260	1.40	11.00	4.40	17.00
VHT20,M0-8	1	5300	1.41	11.00	4.41	17.00
VHT20,M0-8	1	5320	1.18	11.00	4.18	17.00
VHT40,M0-9	1	5270	-1.78	11.00	1.22	17.00
VHT40,M0-9	1	5310	-1.75	11.00	1.25	17.00
VHT80,M0-9	1	5290	-2.66	11.00	0.34	17.00
Result			Complied			

5250-5350MHz - Worst Power Spectral Density Plots


Peak Power Spectral Density Result (5470-5725MHz band)						
Condition			Peak Power Spectral Density (dBm/MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	Power Spectral Density	PSD Limit	EIRP PSD	EIRP Limit
11a	1	5500	4.97	11.00	7.97	17.00
11a	1	5580	4.73	11.00	7.73	17.00
11a	1	5700	4.48	11.00	7.48	17.00
HT20,M0-7	1	5500	3.48	11.00	6.48	17.00
HT20,M0-7	1	5580	3.28	11.00	6.28	17.00
HT20,M0-7	1	5700	3.40	11.00	6.40	17.00
HT40,M0-7	1	5510	0.51	11.00	3.51	17.00
HT40,M0-7	1	5550	0.01	11.00	3.01	17.00
HT40,M0-7	1	5670	-0.04	11.00	2.96	17.00
VHT20,M0-8	1	5500	1.46	11.00	4.46	17.00
VHT20,M0-8	1	5580	1.13	11.00	4.13	17.00
VHT20,M0-8	1	5700	1.06	11.00	4.06	17.00
VHT40,M0-9	1	5510	-2.04	11.00	0.96	17.00
VHT40,M0-9	1	5550	-1.58	11.00	1.42	17.00
VHT40,M0-9	1	5670	-2.01	11.00	0.99	17.00
VHT80,M0-9	1	5530	0.15	11.00	3.15	17.00
Result			Complied			

5470-5750MHz - Worst Power Spectral Density Plots


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

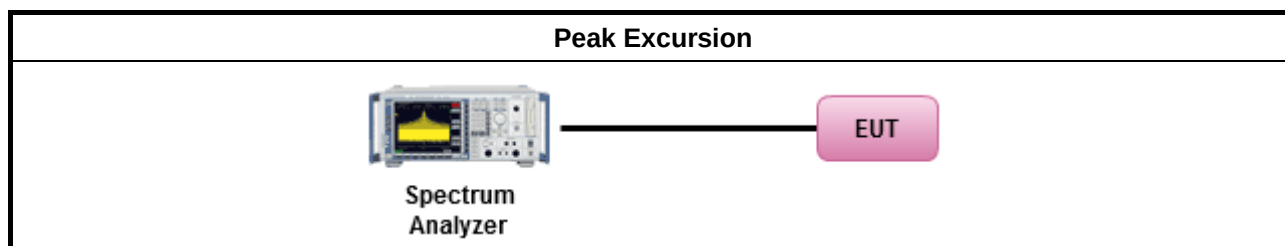
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

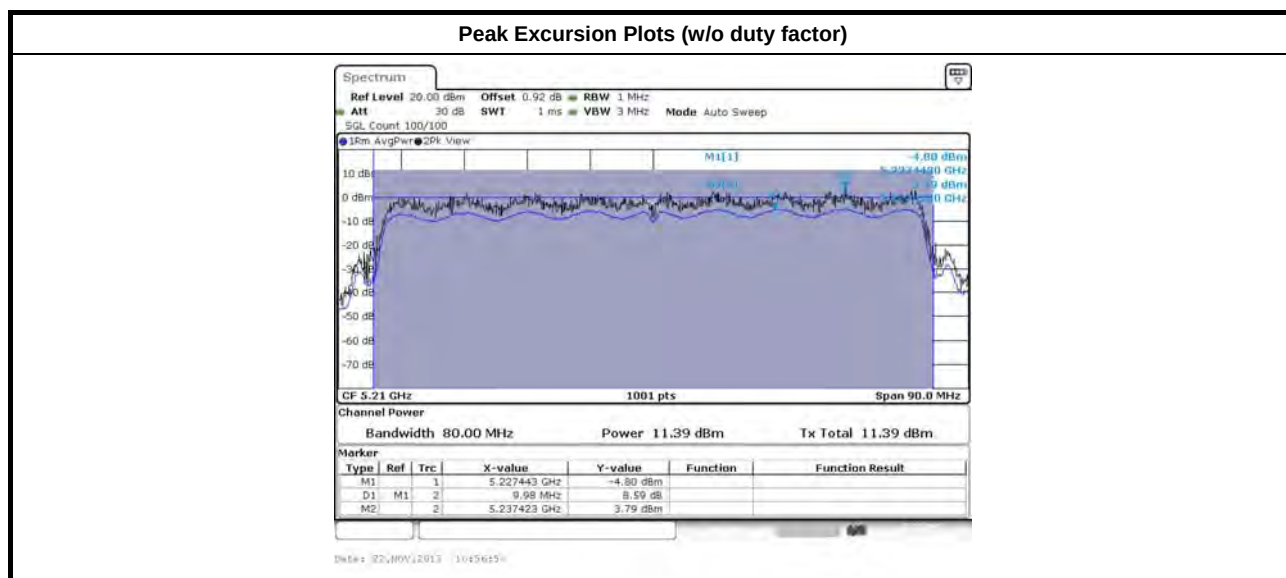
Test Method	
☒	Refer as FCC KDB 789033, clause G peak excursion method.
☒	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
☒	For conducted measurement.
☐	☒ Testing a single output port is sufficient to demonstrate compliance with the peak excursion.

3.5.4 Test Setup



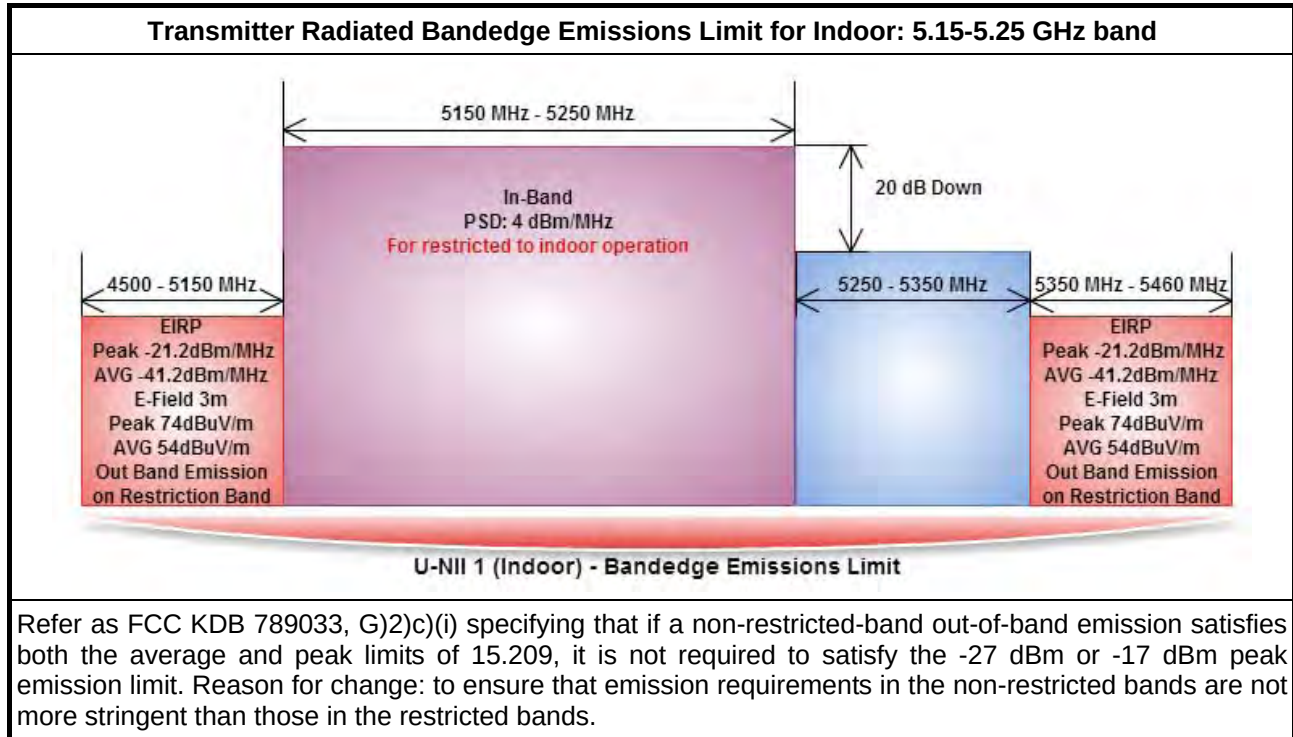
3.5.5 Test Result of Peak Excursion

UNII Peak Excursion Result								
Condition			Peak Excursion (dB)					
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	256QAM	Limit
11a	1	5180	7.11	8.12	8.39	8.38	-	13.0
HT20,M0-7	1	5180	7.59	8.39	7.89	8.22	-	13.0
HT40,M0-7	1	5190	7.25	7.30	7.98	8.05	-	13.0
VHT20,M0-8	1	5180	7.84	7.88	7.59	7.85	7.98	13.0
VHT40,M0-9	1	5190	7.25	8.03	7.92	8.28	8.06	13.0
VHT80,M0-9	1	5210	7.36	7.86	8.59	7.77	7.91	13.0
Result			Complied					



3.6 Transmitter Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit



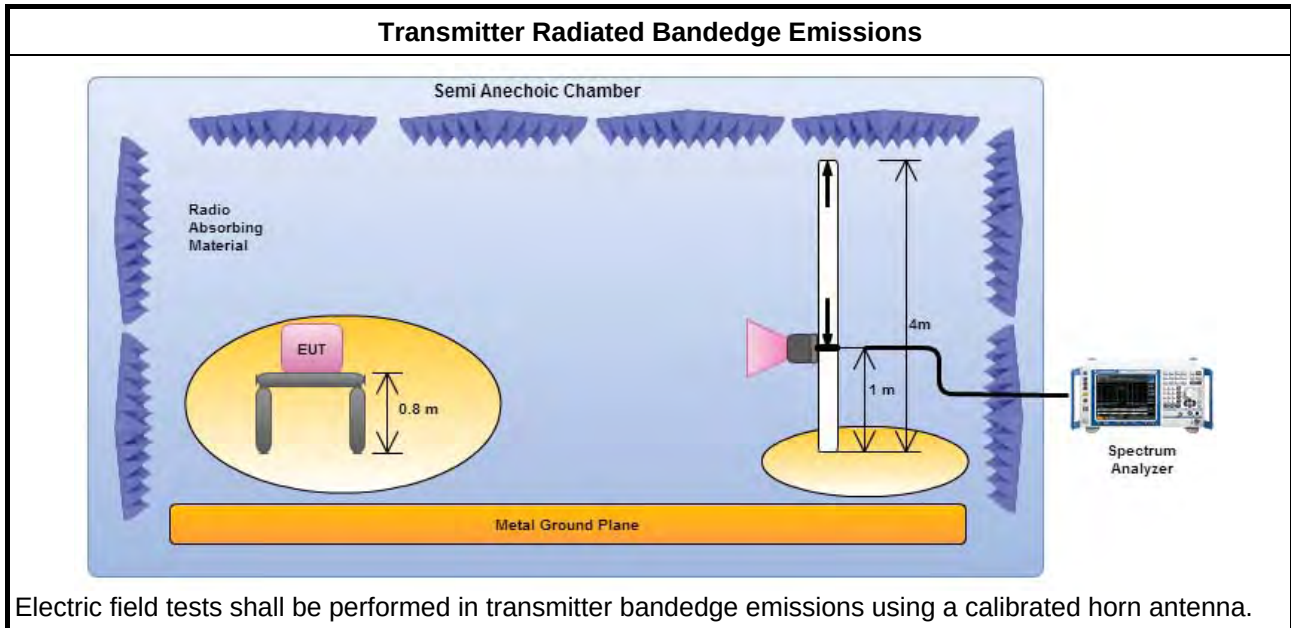
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
☒	The average emission levels shall be measured in [duty cycle $\geq$ 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). $VBW \geq 1/T$, 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 6.6. Test distance is 1m.
☒	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 1m, because the instrumentation noise floor is typically close to the radiated emission limit.

3.6.4 Test Setup



3.6.5 Transmitter Radiated Bandedge Emissions (with Antenna)

U-NII 5150-5250MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5180	1	5147.10	76.13	83.54	5149.90	62.29	63.54	V
11a	1	5240	1	5377.80	67.39	83.54	5367.30	51.81	63.54	V
HT20,M0-7	1	5180	1	5149.50	77.43	83.54	5149.90	62.23	63.54	V
HT20,M0-7	1	5240	1	5371.80	68.85	83.54	5352.60	55.87	63.54	V
HT40,M0-7	1	5190	1	5146.86	76.60	83.54	5149.83	60.77	63.54	V
HT40,M0-7	1	5230	1	5148.90	72.33	83.54	5149.20	58.33	63.54	V
VHT20,M0-8	1	5180	1	5147.40	78.88	83.54	5149.70	61.54	63.54	V
VHT20,M0-8	1	5240	1	5143.80	71.75	83.54	5149.80	57.55	63.54	V
VHT40,M0-9	1	5190	1	5149.94	80.05	83.54	5149.94	62.53	63.54	V
VHT40,M0-9	1	5230	1	5149.80	75.03	83.54	5149.80	60.75	63.54	V
VHT80,M0-9	1	5210	1	5149.80	75.60	83.54	5149.80	61.10	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

U-NII 5250-5350MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5260	1	5358.60	68.91	83.54	5351.40	55.86	63.54	V
11a	1	5320	1	5352.70	77.81	83.54	5350.11	60.67	63.54	V
HT20,M0-7	1	5260	1	5352.90	74.49	83.54	5350.80	58.16	63.54	V
HT20,M0-7	1	5320	1	5354.45	79.07	83.54	5350.11	60.84	63.54	V
HT40,M0-7	1	5270	1	5350.80	77.57	83.54	5351.40	62.07	63.54	V
HT40,M0-7	1	5310	1	5350.30	77.23	83.54	5350.12	61.69	63.54	V
VHT20,M0-8	1	5260	1	5359.80	75.97	83.54	5351.40	58.97	63.54	V
VHT20,M0-8	1	5320	1	5354.10	80.64	83.54	5350.11	62.04	63.54	V
VHT40,M0-9	1	5270	1	5350.20	80.39	83.54	5350.80	61.07	63.54	V
VHT40,M0-9	1	5310	1	5353.99	76.64	83.54	5350.12	61.07	63.54	V
VHT80,M0-9	1	5290	1	5352.90	76.77	83.54	5352.90	61.81	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

U-NII 5470-5725MHz Transmitter Radiated Bandedge (with Antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11a	1	5500	1	5467.28	76.84	83.54	5469.76	62.30	63.54	V
11a	1	5700	1	5725.88	75.95	83.54	5724.98	59.09	63.54	V
HT20,M0-7	1	5500	1	5465.12	79.95	83.54	5469.92	62.31	63.54	V
HT20,M0-7	1	5700	1	5728.52	75.92	83.54	5725.16	58.95	63.54	V
HT40,M0-7	1	5510	1	5469.70	76.27	83.54	5469.90	61.20	63.54	V
HT40,M0-7	1	5670	1	5725.00	74.50	83.54	5725.10	59.37	63.54	V
VHT20,M0-8	1	5500	1	5468.80	79.16	83.54	5470.00	62.33	63.54	V
VHT20,M0-8	1	5700	1	5724.98	59.04	83.54	5724.98	59.04	63.54	V
VHT40,M0-9	1	5510	1	5469.90	79.30	83.54	5469.90	62.27	63.54	V
VHT40,M0-9	1	5670	1	5725.50	76.33	83.54	5725.10	60.14	63.54	V
VHT80,M0-9	1	5530	1	5469.48	74.58	83.54	5465.56	60.71	63.54	V

Note 1: Measurement worst emissions of receive antenna polarization.

3.7 Transmitter 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).

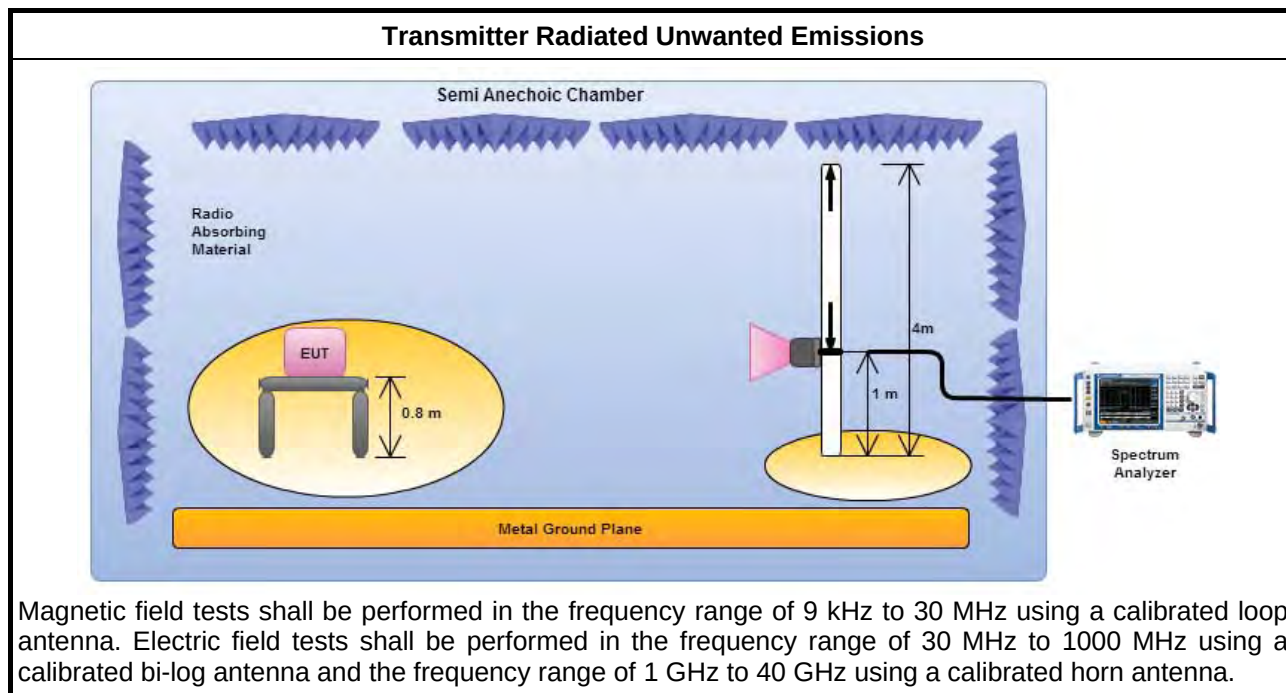
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

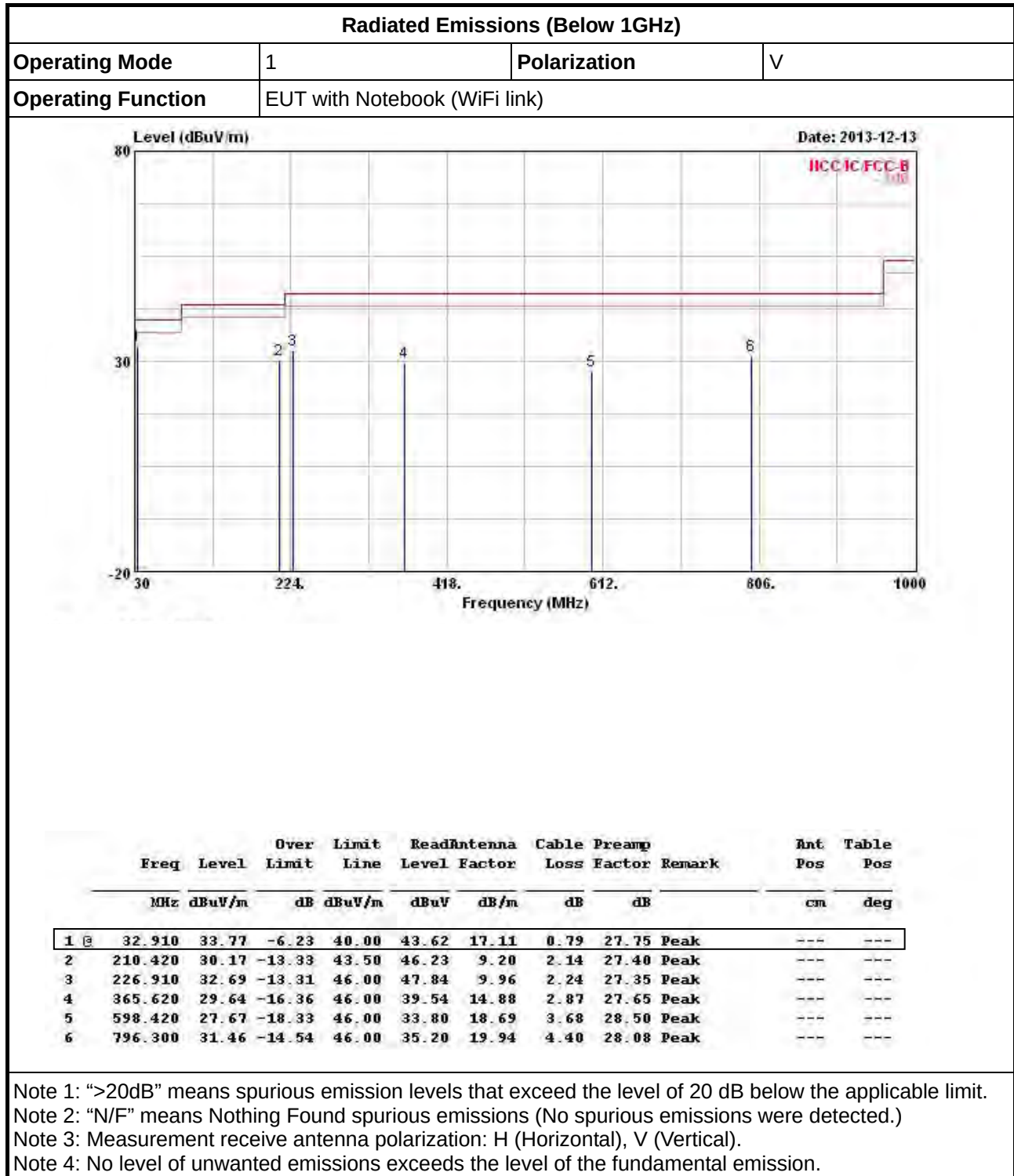
Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies 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).
☒	The average emission levels shall be measured in [duty cycle $\geq$ 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 $\geq$ 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 below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 1m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.
☒	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.7.4 Test Setup



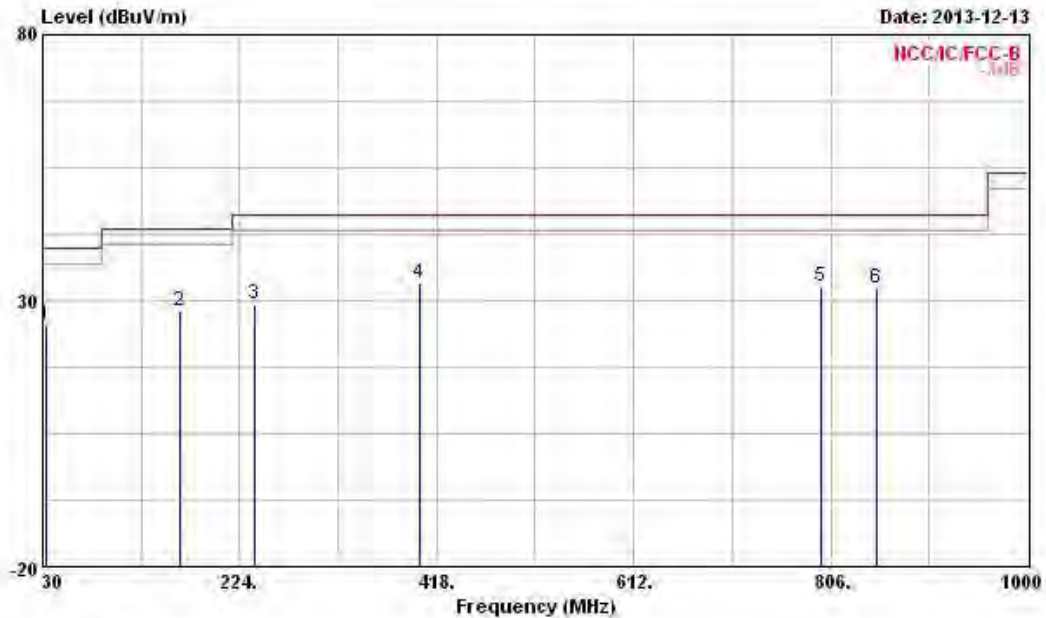
3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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 11a


Radiated Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	EUT with Notebook (WiFi link)		



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	32.910	25.36	-14.64	40.00	35.21	17.11	0.79	27.75	Peak	---	---
2	164.830	27.90	-15.60	43.50	43.67	9.95	1.82	27.54	Peak	---	---
3	238.550	29.23	-16.77	46.00	42.80	11.43	2.32	27.32	Peak	---	---
4	400.540	33.43	-12.57	46.00	42.47	15.89	2.98	27.91	Peak	---	---
5	796.300	32.58	-13.42	46.00	36.32	19.94	4.40	28.08	Peak	---	---
6	851.590	32.14	-13.86	46.00	35.17	20.36	4.52	27.91	Peak	---	---

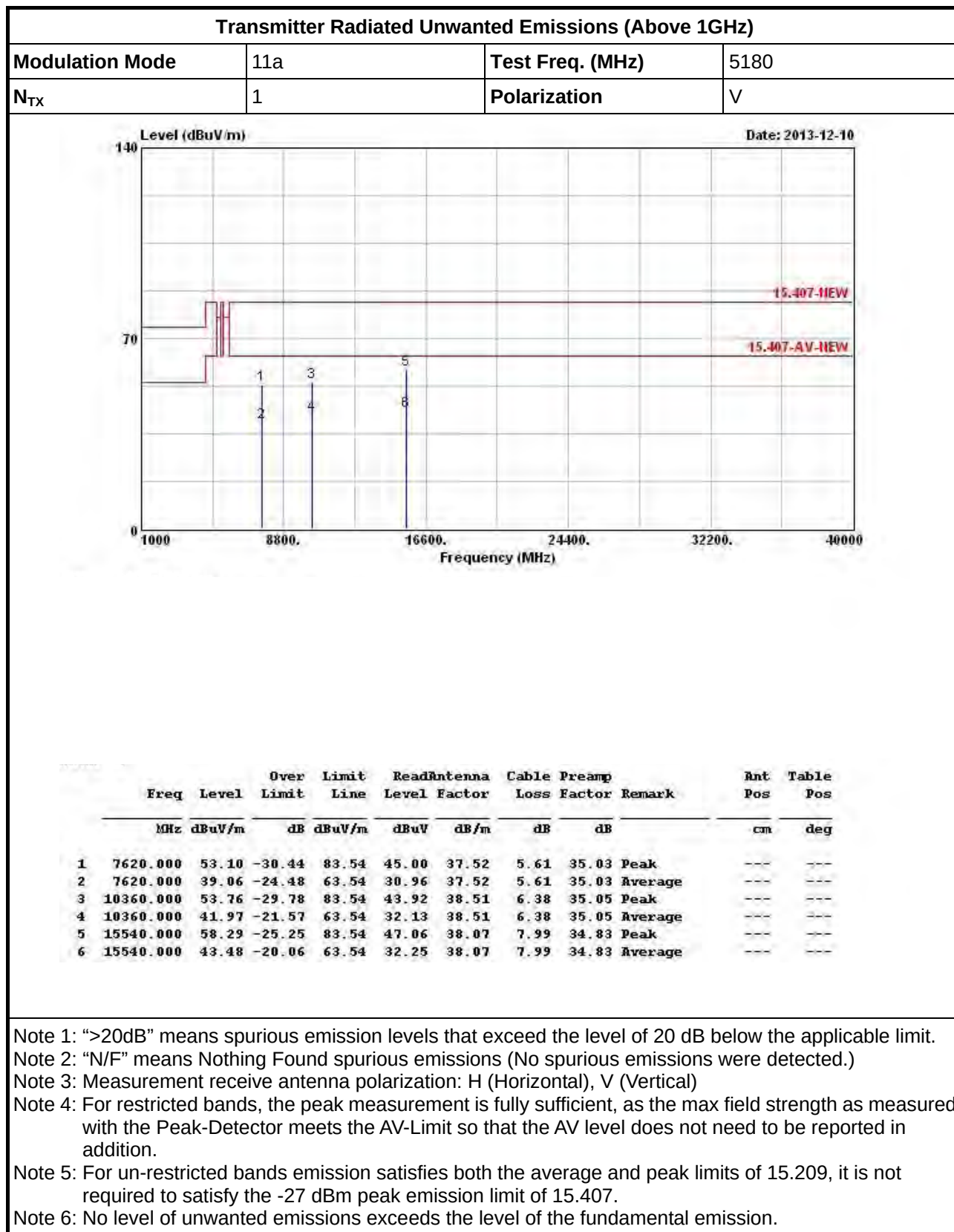
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

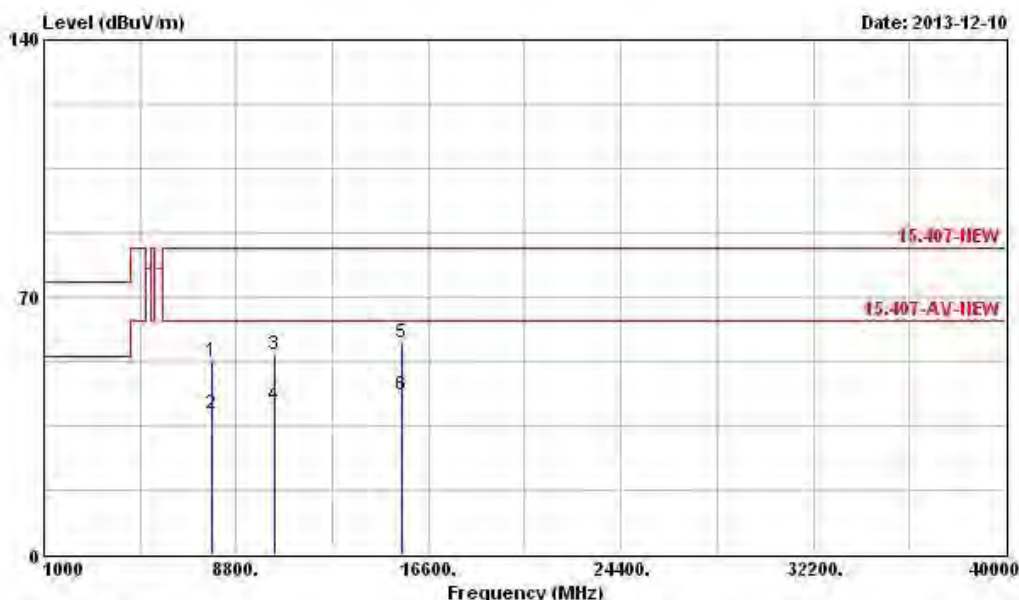
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5180
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7812.000	52.57	-30.97	83.54	44.66	37.56	5.44	35.09	Peak	---
2	7812.000	38.01	-25.53	63.54	30.10	37.56	5.44	35.09	Average	---
3	10360.000	54.25	-29.29	83.54	44.41	38.51	6.38	35.05	Peak	---
4	10360.000	40.64	-22.90	63.54	30.80	38.51	6.38	35.05	Average	---
5	15540.000	57.54	-26.00	83.54	46.31	38.07	7.99	34.83	Peak	---
6	15540.000	43.20	-20.34	63.54	31.97	38.07	7.99	34.83	Average	---

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)

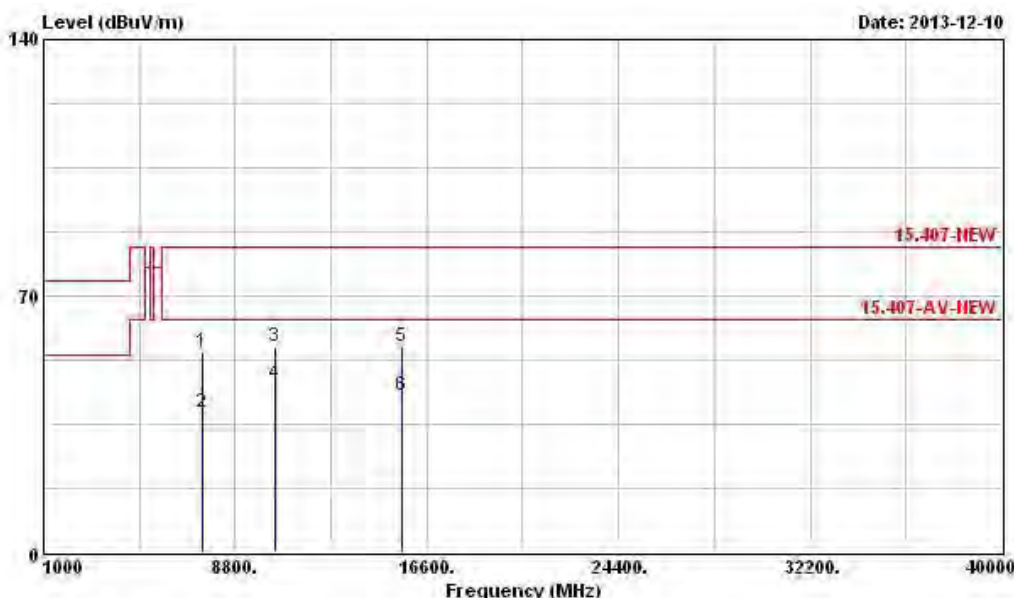
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7464.000	54.88	-28.66	83.54	46.78	37.42	5.66	34.98	Peak	---
2	7464.000	38.27	-25.27	63.54	30.17	37.42	5.66	34.98	Average	---
3	10400.000	56.05	-27.49	83.54	46.22	38.48	6.35	35.00	Peak	---
4	10400.000	46.09	-17.45	63.54	36.26	38.48	6.35	35.00	Average	---
5	15600.000	56.15	-27.39	83.54	45.11	38.00	7.96	34.92	Peak	---
6	15600.000	42.77	-20.77	63.54	31.73	38.00	7.96	34.92	Average	---

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)

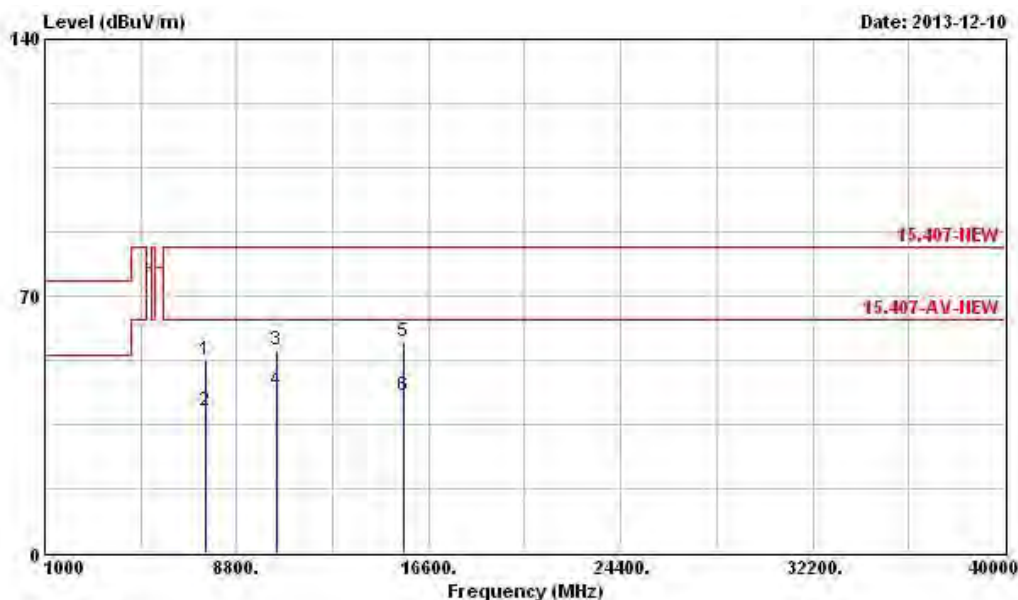
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7560.000	52.50	-31.04	83.54	44.32	37.51	5.68	35.01	Peak	---
2	7560.000	38.71	-24.83	63.54	30.53	37.51	5.68	35.01	Average	---
3	10400.000	55.45	-28.09	83.54	45.62	38.48	6.35	35.00	Peak	---
4	10400.000	44.01	-19.53	63.54	34.18	38.48	6.35	35.00	Average	---
5	15600.000	57.79	-25.75	83.54	46.75	38.00	7.96	34.92	Peak	---
6	15600.000	42.91	-20.63	63.54	31.87	38.00	7.96	34.92	Average	---

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)

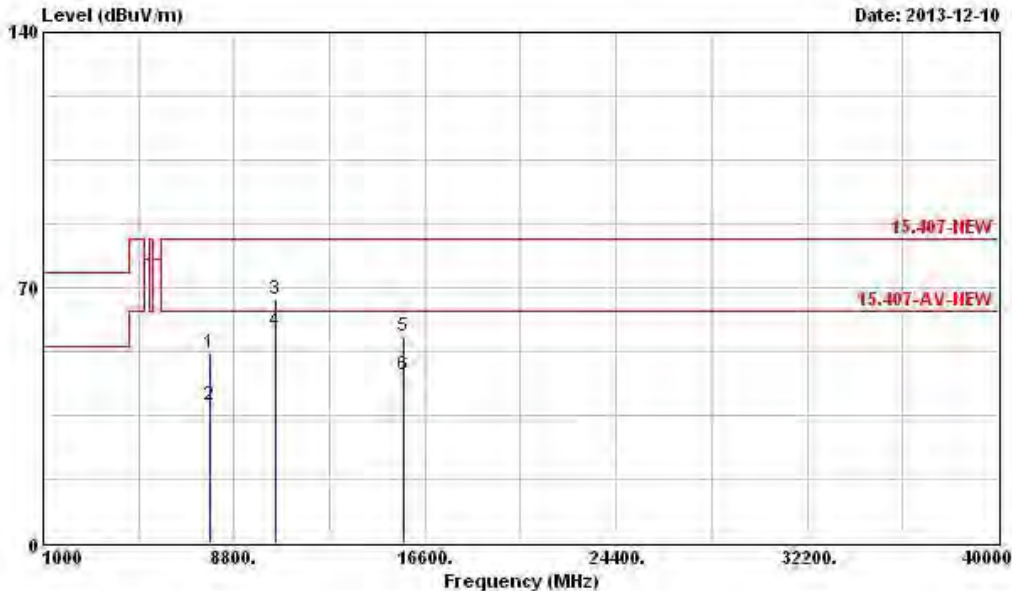
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7812.000	51.83	-31.71	83.54	43.92	37.56	5.44	35.09	Peak	---
2	7812.000	37.94	-25.60	63.54	30.03	37.56	5.44	35.09	Average	---
3	10480.000	66.78	-16.76	83.54	57.00	38.41	6.30	34.93	Peak	---
4	10480.000	58.20	-5.34	63.54	48.42	38.41	6.30	34.93	Average	---
5	15720.000	56.86	-26.68	83.54	46.15	37.88	7.86	35.03	Peak	---
6	15720.000	46.01	-17.53	63.54	35.30	37.88	7.86	35.03	Average	---

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)

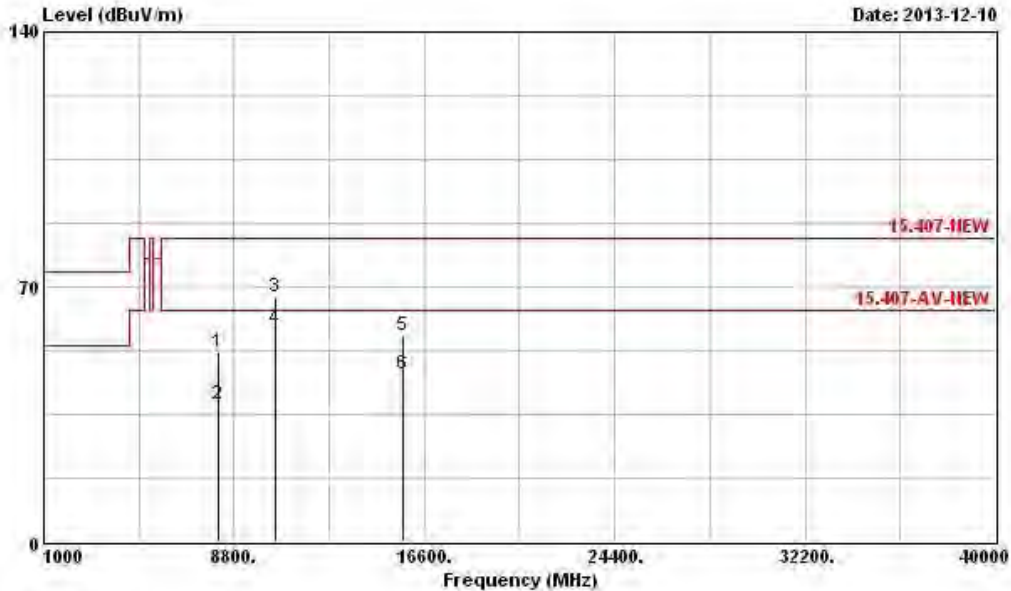
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp				Ant	Table
	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	Remark			Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8184.000	52.02	-31.52	83.54	44.18	37.60	5.37	35.13	Peak	---	---
2	8184.000	37.92	-25.62	63.54	30.08	37.60	5.37	35.13	Average	---	---
3	10480.000	67.34	-16.20	83.54	57.56	38.41	6.30	34.93	Peak	---	---
4	10480.000	58.69	-4.85	63.54	48.91	38.41	6.30	34.93	Average	---	---
5	15720.000	56.69	-26.85	83.54	45.98	37.88	7.86	35.03	Peak	---	---
6	15720.000	45.83	-17.71	63.54	35.12	37.88	7.86	35.03	Average	---	---

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)

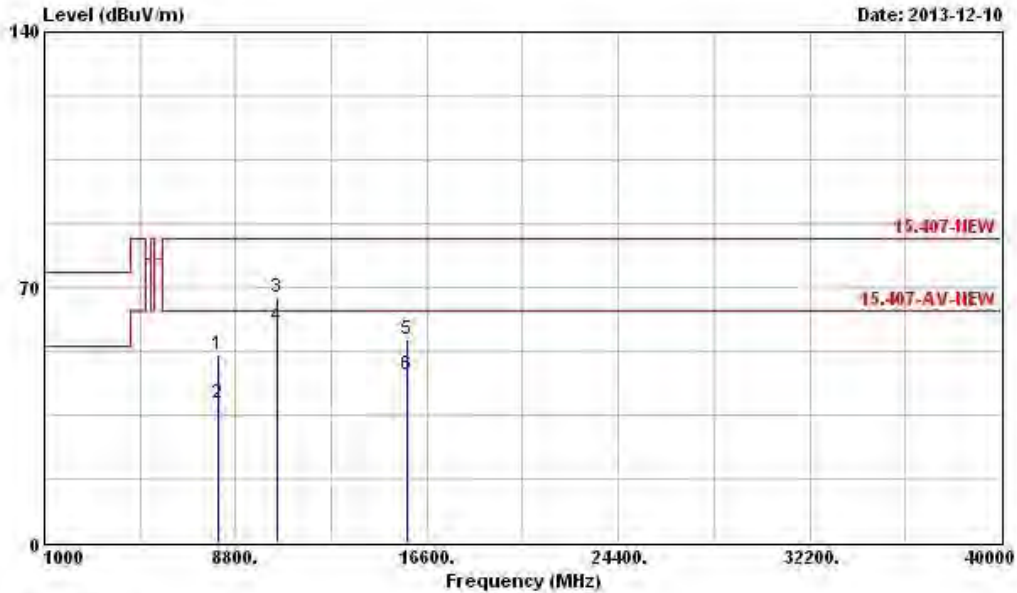
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8052.000	51.73	-31.81	83.54	43.95	37.60	5.33	35.15 Peak	---	---
2	8052.000	38.34	-25.20	63.54	30.56	37.60	5.33	35.15 Average	---	---
3	10520.000	67.01	-16.53	83.54	57.25	38.40	6.27	34.91 Peak	---	---
4	10520.000	59.23	-4.31	63.54	49.47	38.40	6.27	34.91 Average	---	---
5	15780.000	55.54	-28.00	83.54	45.05	37.82	7.79	35.12 Peak	---	---
6	15780.000	45.89	-17.65	63.54	35.40	37.82	7.79	35.12 Average	---	---

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)

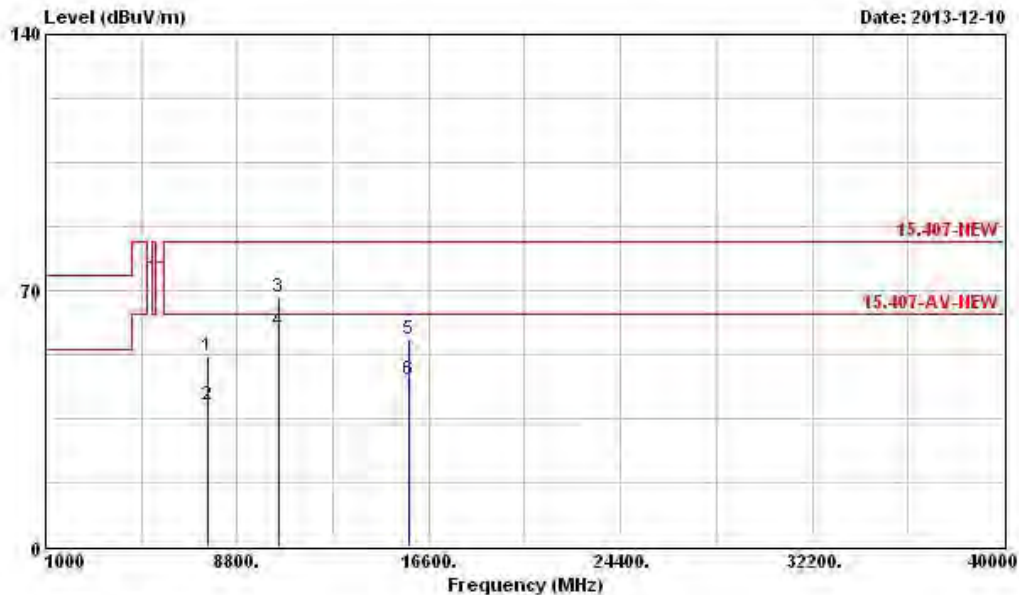
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
N _{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Rnt	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
1	7608.000	52.21	-31.33	83.54	44.07	37.52	5.64	35.02	Peak	---
2	7608.000	38.75	-24.79	63.54	30.61	37.52	5.64	35.02	Average	---
3	10520.000	68.30	-15.24	83.54	58.54	38.40	6.27	34.91	Peak	---
4	10520.000	58.76	-4.78	63.54	49.00	38.40	6.27	34.91	Average	---
5	15780.000	56.68	-26.86	83.54	46.19	37.82	7.79	35.12	Peak	---
6	15780.000	45.71	-17.83	63.54	35.22	37.82	7.79	35.12	Average	---

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)

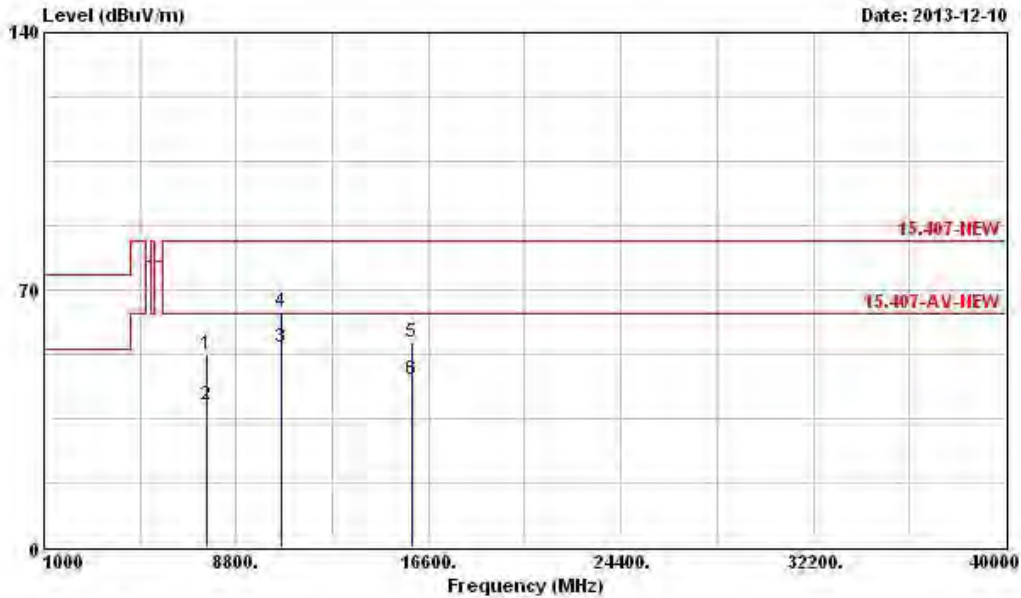
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7608.000	52.32	-31.22	83.54	44.18	37.52	5.64	35.02	Peak	---	---
2	7608.000	38.91	-24.63	63.54	30.77	37.52	5.64	35.02	Average	---	---
3	10600.000	54.39	-9.15	63.54	44.44	38.40	6.27	34.72	Average	---	---
4	10600.000	64.02	-19.52	83.54	54.07	38.40	6.27	34.72	Peak	---	---
5	15900.000	55.56	-27.98	83.54	45.40	37.70	7.69	35.23	Peak	---	---
6	15900.000	45.62	-17.92	63.54	35.46	37.70	7.69	35.23	Average	---	---

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)

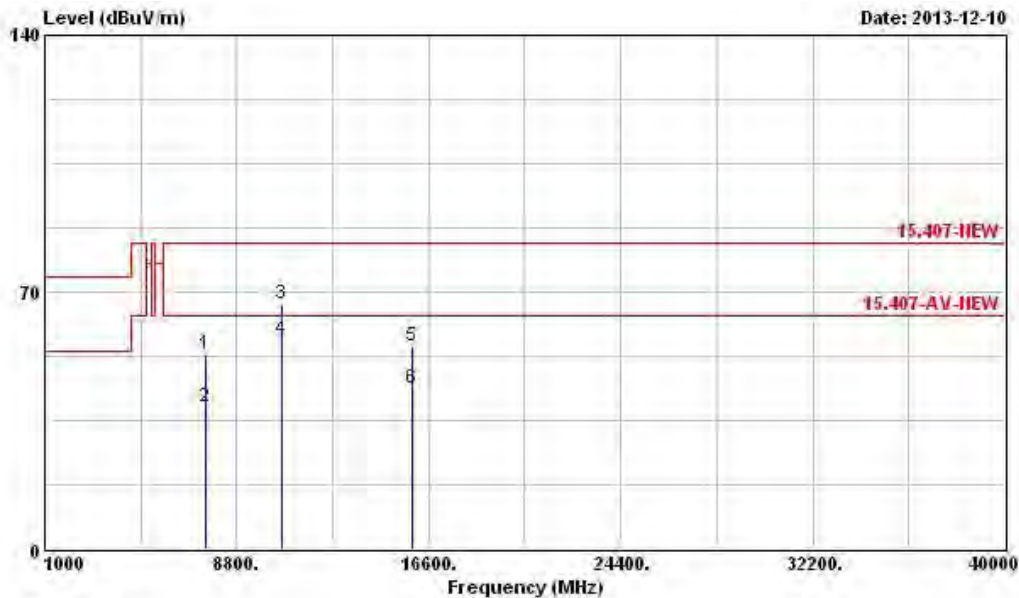
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7560.000	52.82	-30.72	83.54	44.64	37.51	5.68	35.01	Peak	---
2	7560.000	38.61	-24.93	63.54	30.43	37.51	5.68	35.01	Average	---
3	10600.000	66.58	-16.96	83.54	56.63	38.40	6.27	34.72	Peak	---
4	10600.000	57.31	-6.23	63.54	47.36	38.40	6.27	34.72	Average	---
5	15900.000	55.32	-28.22	83.54	45.16	37.70	7.69	35.23	Peak	---
6	15900.000	43.63	-19.91	63.54	33.47	37.70	7.69	35.23	Average	---

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)

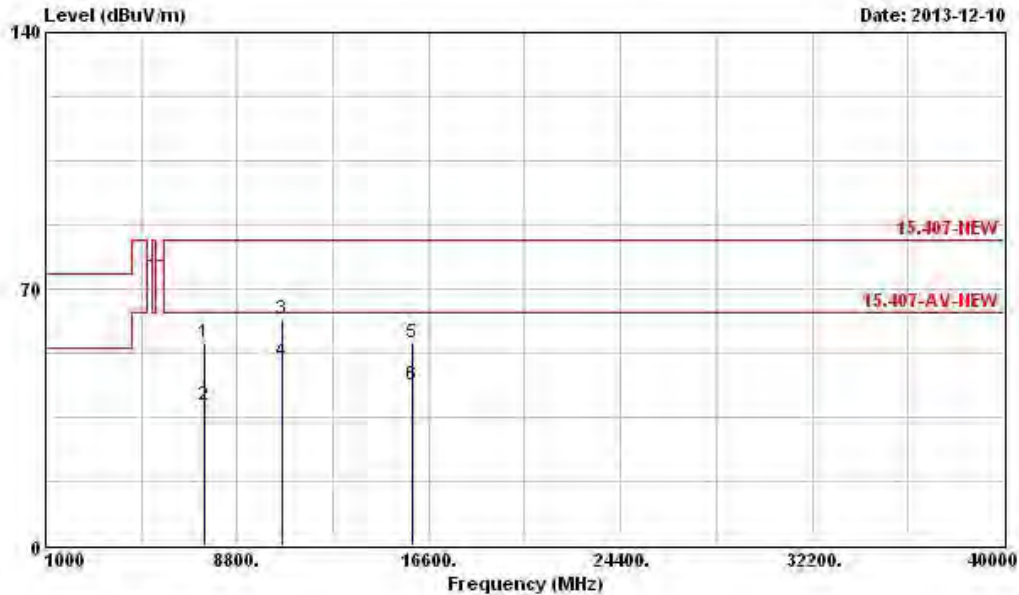
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7464.000	55.38	-28.16	83.54	47.28	37.42	5.66	34.98	Peak	---	---
2	7464.000	38.18	-25.36	63.54	30.08	37.42	5.66	34.98	Average	---	---
3	10640.000	61.64	-21.90	83.54	51.57	38.40	6.26	34.59	Peak	---	---
4	10640.000	50.29	-13.25	63.54	40.22	38.40	6.26	34.59	Average	---	---
5	15960.000	55.29	-28.25	83.54	45.36	37.63	7.62	35.32	Peak	---	---
6	15960.000	43.74	-19.80	63.54	33.81	37.63	7.62	35.32	Average	---	---

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)

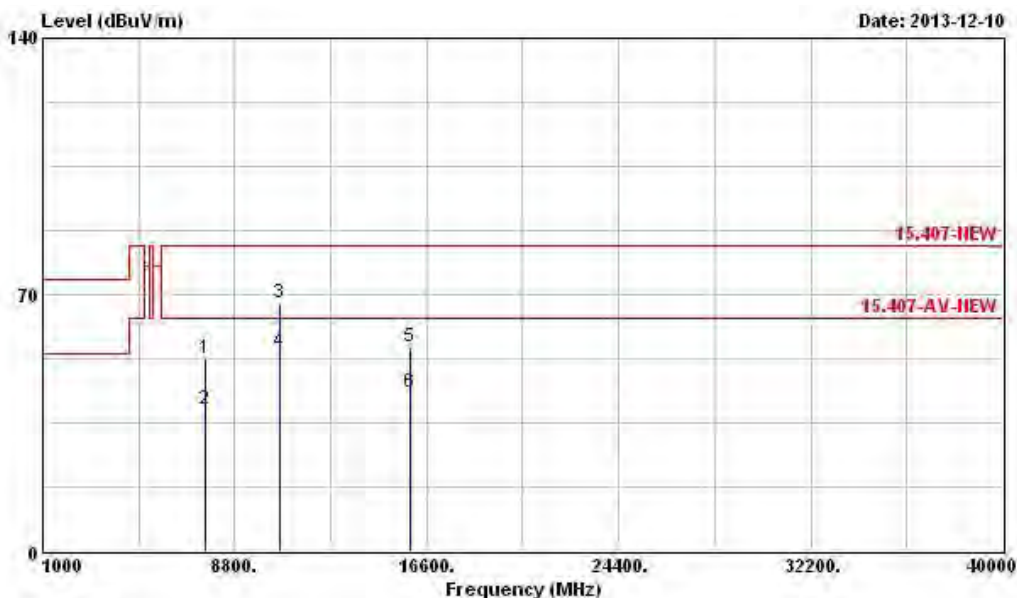
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7608.000	52.32	-31.22	83.54	44.18	37.52	5.64	35.02	Peak	---
2	7608.000	38.67	-24.87	63.54	30.53	37.52	5.64	35.02	Average	---
3	10640.000	67.62	-15.92	83.54	57.55	38.40	6.26	34.59	Peak	---
4	10640.000	54.24	-9.30	63.54	44.17	38.40	6.26	34.59	Average	---
5	15960.000	55.85	-27.69	83.54	45.92	37.63	7.62	35.32	Peak	---
6	15960.000	43.37	-20.17	63.54	33.44	37.63	7.62	35.32	Average	---

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)

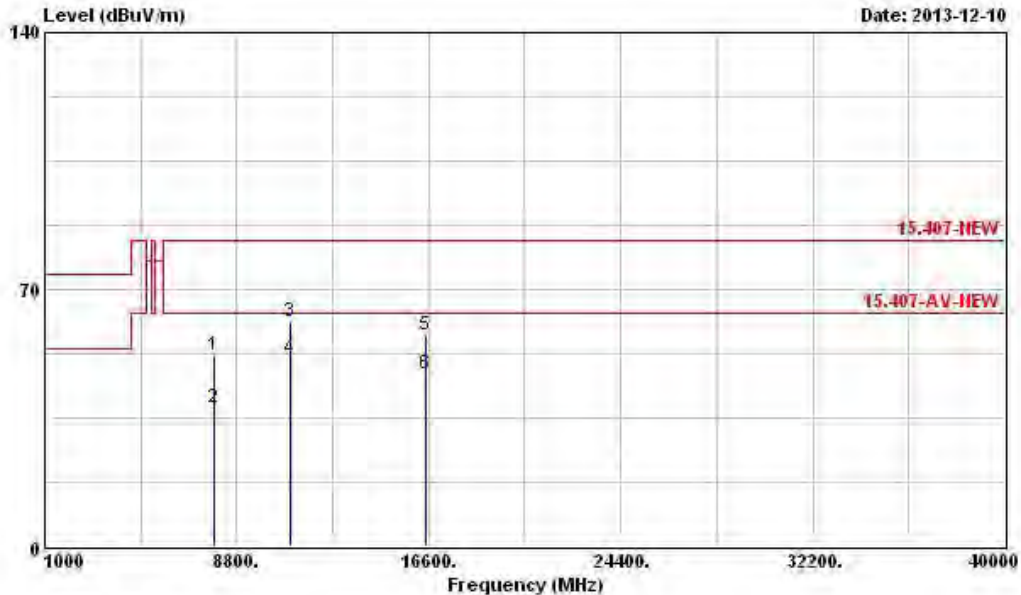
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7860.000	52.18	-31.36	83.54	44.31	37.57	5.41	35.11	Peak	---
2	7860.000	37.73	-25.81	63.54	29.86	37.57	5.41	35.11	Average	---
3	11000.000	61.28	-22.26	83.54	50.36	38.40	6.23	33.71	Peak	---
4	11000.000	50.94	-12.60	63.54	40.02	38.40	6.23	33.71	Average	---
5	16500.000	57.60	-25.94	83.54	44.64	39.10	8.70	34.84	Peak	---
6	16500.000	46.81	-16.73	63.54	33.85	39.10	8.70	34.84	Average	---

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)

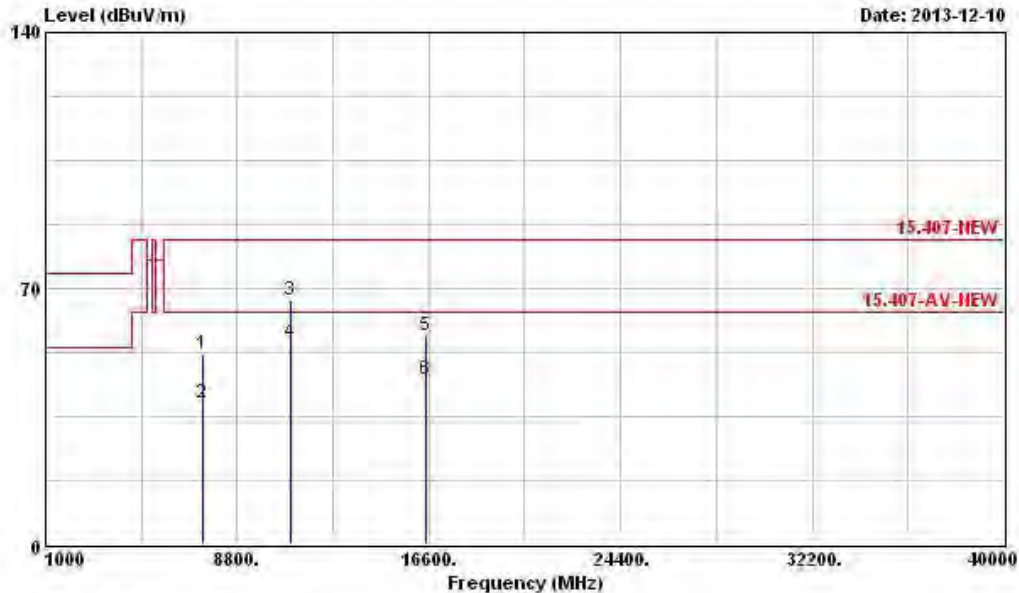
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Rnt	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
1	7380.000	52.24	-31.30	83.54	44.43	37.21	5.57	34.97	Peak	---
2	7380.000	38.63	-24.91	63.54	30.82	37.21	5.57	34.97	Average	---
3	11000.000	66.61	-16.93	83.54	55.69	38.40	6.23	33.71	Peak	---
4	11000.000	55.17	-8.37	63.54	44.25	38.40	6.23	33.71	Average	---
5	16500.000	57.08	-26.46	83.54	44.12	39.10	8.70	34.84	Peak	---
6	16500.000	45.12	-18.42	63.54	32.16	39.10	8.70	34.84	Average	---

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)

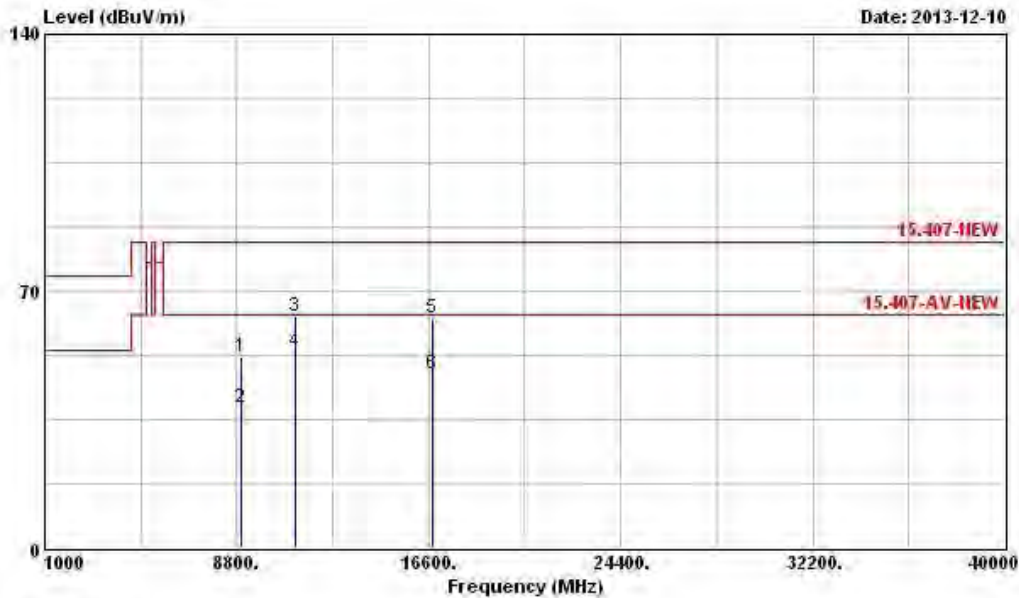
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8964.000	52.25	-31.29	83.54	43.27	38.23	5.94	35.19	Peak	---	---
2	8964.000	38.28	-25.26	63.54	29.30	38.23	5.94	35.19	Average	---	---
3	11160.000	63.03	-20.51	83.54	52.02	38.67	6.28	33.94	Peak	---	---
4	11160.000	53.43	-10.11	63.54	42.42	38.67	6.28	33.94	Average	---	---
5	16740.000	62.68	-20.86	83.54	47.75	40.50	8.86	34.43	Peak	---	---
6	16740.000	47.55	-15.99	63.54	32.62	40.50	8.86	34.43	Average	---	---

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)

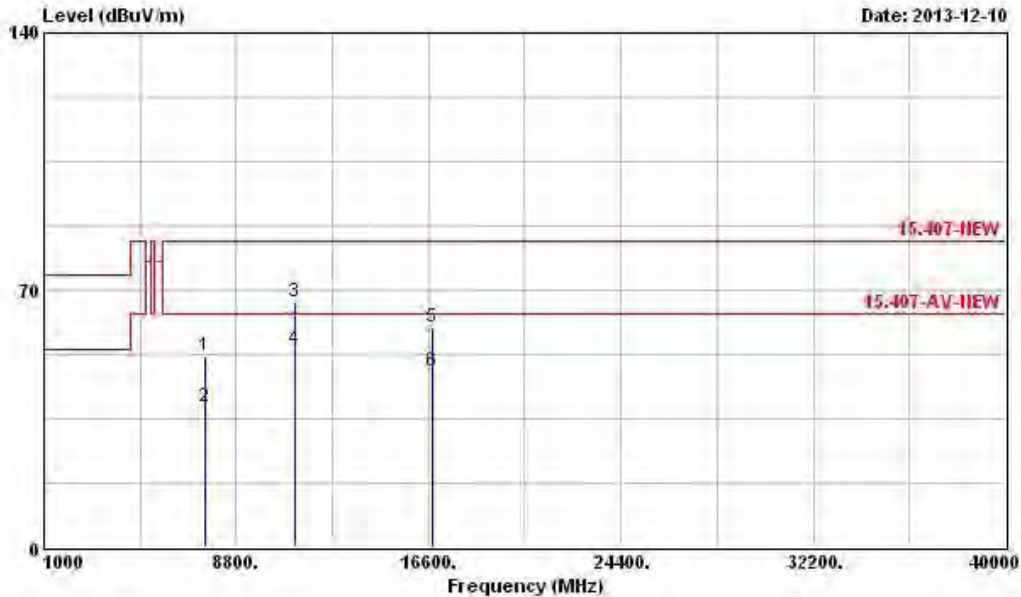
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7524.000	52.09	-31.45	83.54	43.87	37.51	5.71	35.00	Peak	---	---
2	7524.000	38.18	-25.36	63.54	29.96	37.51	5.71	35.00	Average	---	---
3	11160.000	66.55	-16.99	83.54	55.54	38.67	6.28	33.94	Peak	---	---
4	11160.000	54.05	-9.49	63.54	43.04	38.67	6.28	33.94	Average	---	---
5	16740.000	60.01	-23.53	83.54	45.08	40.50	8.86	34.43	Peak	---	---
6	16740.000	48.10	-15.44	63.54	33.17	40.50	8.86	34.43	Average	---	---

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)

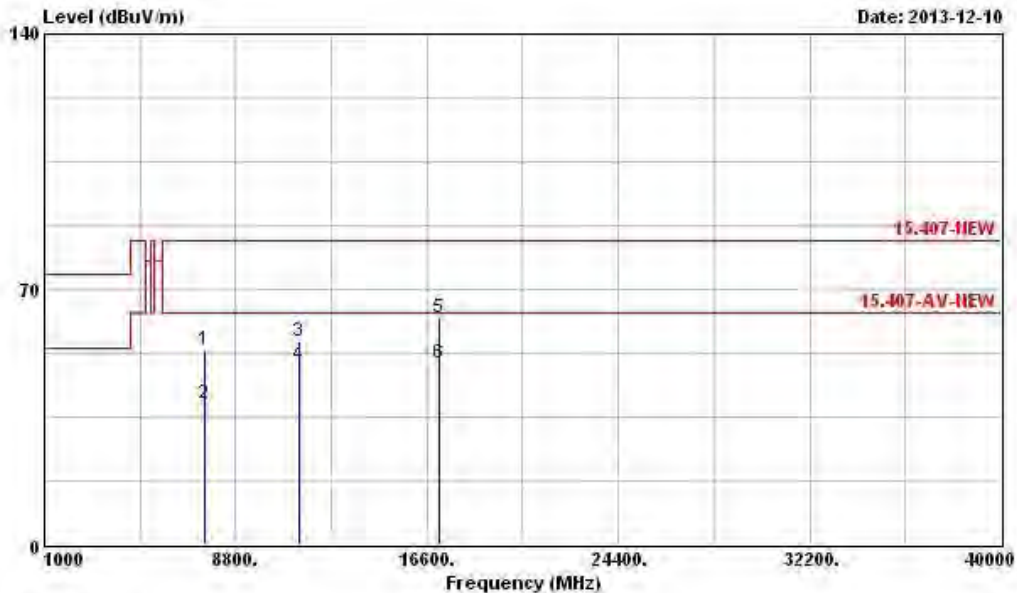
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7560.000	53.33	-30.21	83.54	45.15	37.51	5.68	35.01 Peak	---	---
2	7560.000	38.50	-25.04	63.54	30.32	37.51	5.68	35.01 Average	---	---
3	11400.000	55.67	-27.87	83.54	44.62	39.04	6.34	34.33 Peak	---	---
4	11400.000	49.08	-14.46	63.54	38.03	39.04	6.34	34.33 Average	---	---
5	17100.000	62.39	-21.15	83.54	44.61	42.72	8.98	33.92 Peak	---	---
6	17100.000	49.53	-14.01	63.54	31.75	42.72	8.98	33.92 Average	---	---

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)

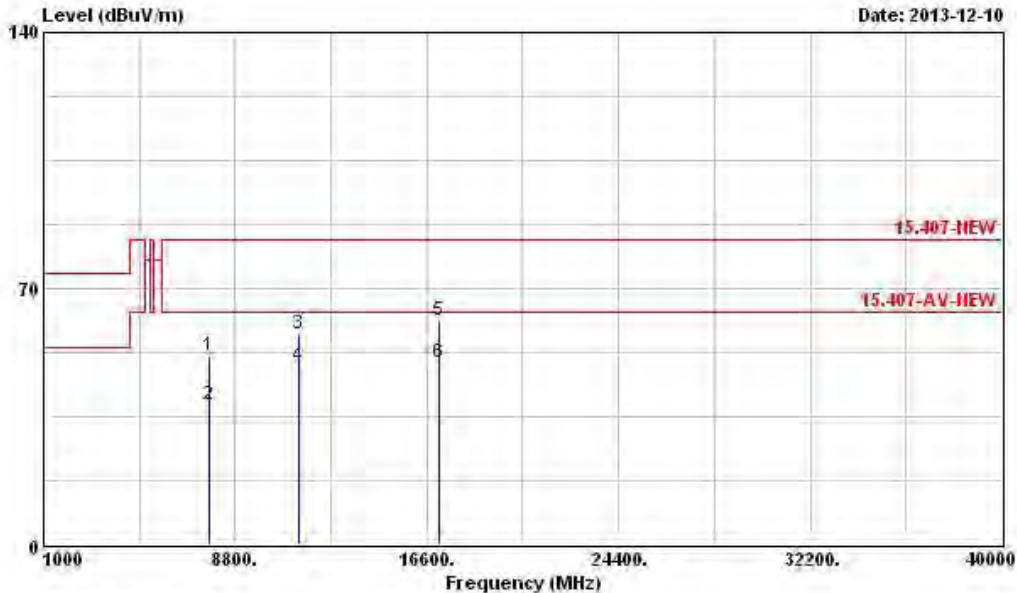
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7716.000	51.77	-31.77	83.54	43.75	37.54	5.54	35.06	Peak	---
2	7716.000	38.05	-25.49	63.54	30.03	37.54	5.54	35.06	Average	---
3	11400.000	57.51	-26.03	83.54	46.46	39.04	6.34	34.33	Peak	---
4	11400.000	49.04	-14.50	63.54	37.99	39.04	6.34	34.33	Average	---
5	17100.000	61.47	-22.07	83.54	43.69	42.72	8.98	33.92	Peak	---
6	17100.000	49.73	-13.81	63.54	31.95	42.72	8.98	33.92	Average	---

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.)

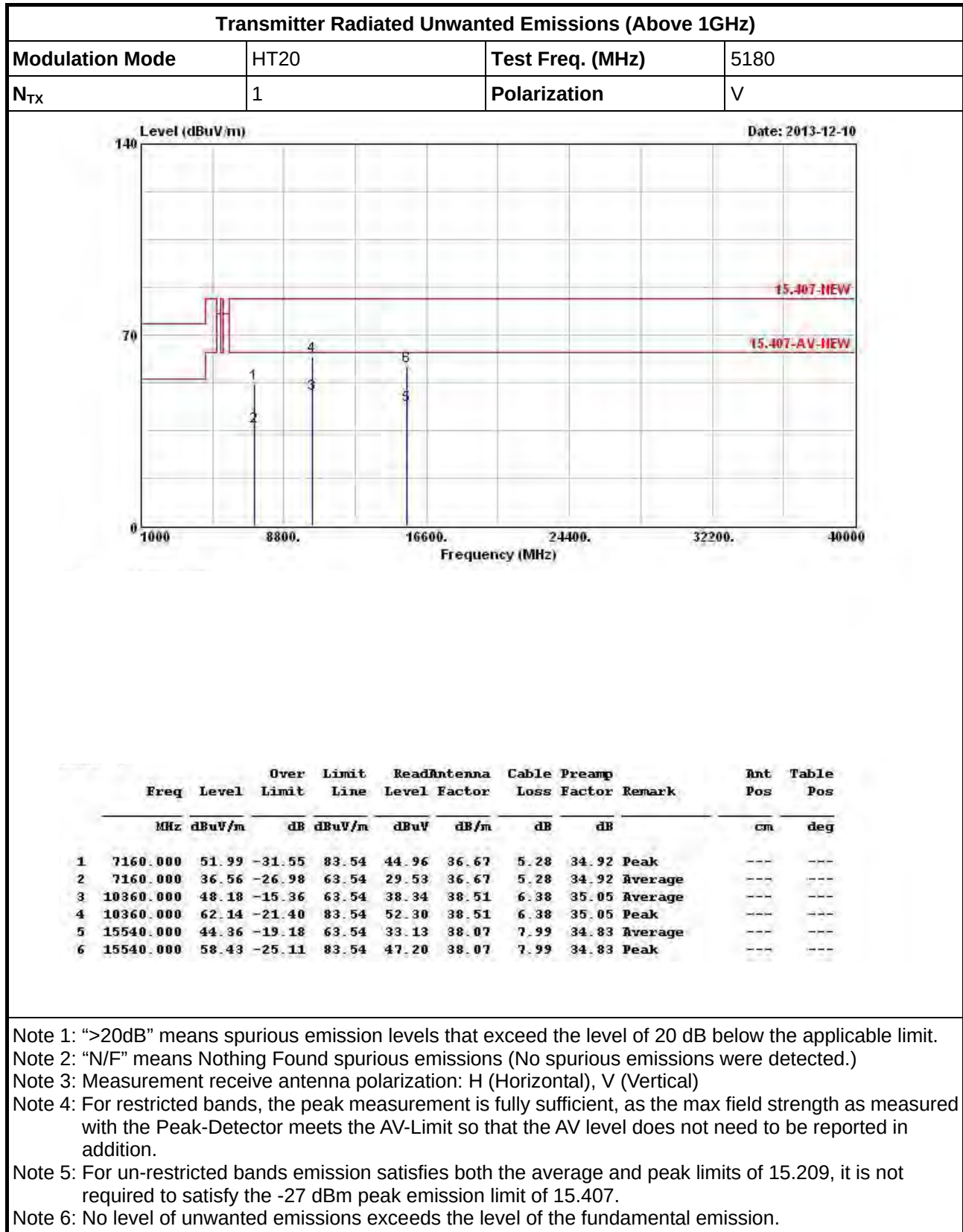
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

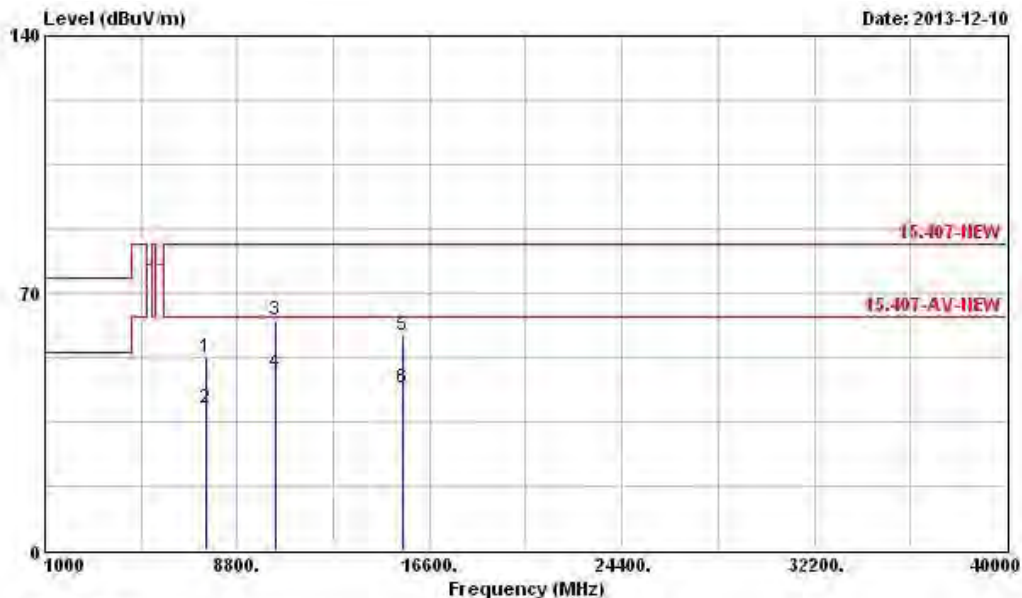
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7533.000	52.49	-31.05	83.54	44.30	37.51	5.68	35.00	Peak	---
2	7533.000	38.65	-24.89	63.54	30.46	37.51	5.68	35.00	Average	---
3	10360.000	62.84	-20.70	83.54	53.00	38.51	6.38	35.05	Peak	---
4	10360.000	48.25	-15.29	63.54	38.41	38.51	6.38	35.05	Average	---
5	15540.000	58.67	-24.87	83.54	47.44	38.07	7.99	34.83	Peak	---
6	15540.000	44.15	-19.39	63.54	32.92	38.07	7.99	34.83	Average	---

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)

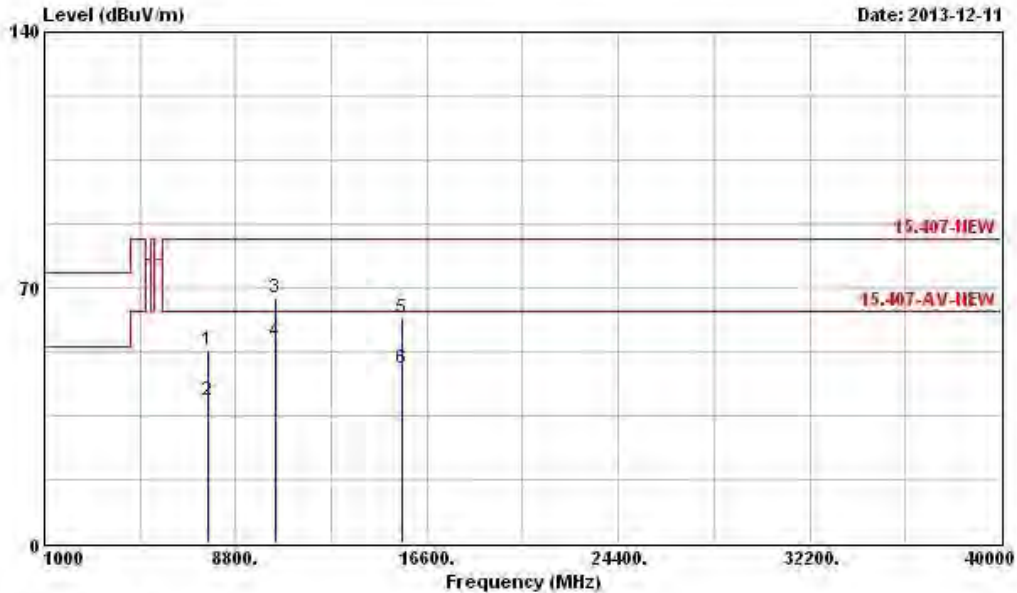
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Rnt	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
1	7670.000	52.78	-30.76	83.54	44.72	37.53	5.58	35.05	Peak	---
2	7670.000	39.04	-24.50	63.54	30.98	37.53	5.58	35.05	Average	---
3	10400.000	67.18	-16.36	83.54	57.35	38.48	6.35	35.00	Peak	---
4	10400.000	55.15	-8.39	63.54	45.32	38.48	6.35	35.00	Average	---
5	15600.000	61.72	-21.82	83.54	50.68	38.00	7.96	34.92	Peak	---
6	15600.000	47.92	-15.62	63.54	36.88	38.00	7.96	34.92	Average	---

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)

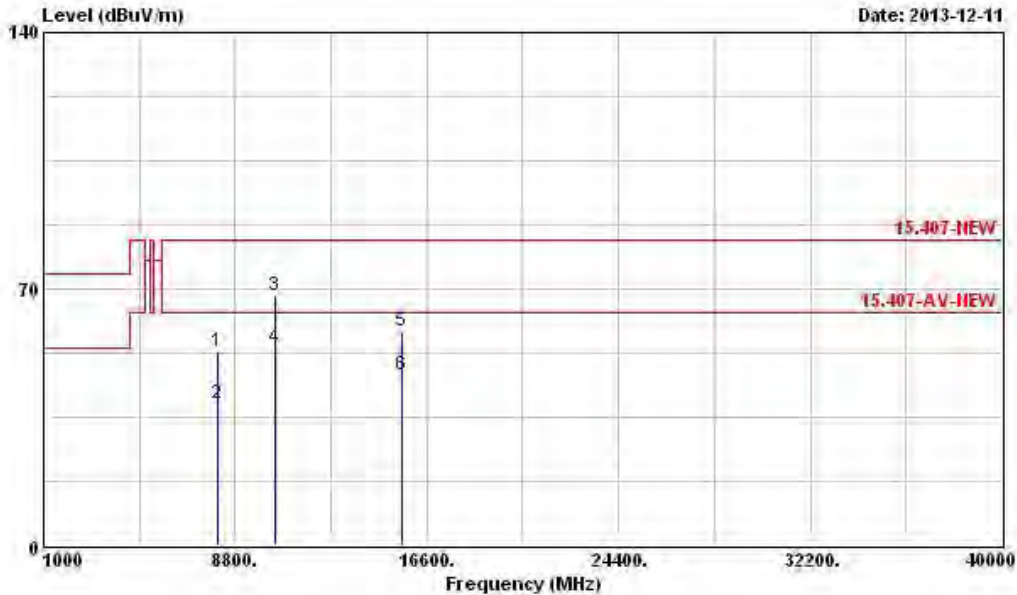
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8080.000	52.98	-30.56	83.54	45.18	37.60	5.35	35.15	Peak	---	---
2	8080.000	38.79	-24.75	63.54	30.99	37.60	5.35	35.15	Average	---	---
3	10400.000	68.09	-15.45	83.54	58.26	38.48	6.35	35.00	Peak	---	---
4	10400.000	53.94	-9.60	63.54	44.11	38.48	6.35	35.00	Average	---	---
5	15600.000	58.48	-25.06	83.54	47.44	38.00	7.96	34.92	Peak	---	---
6	15600.000	46.44	-17.10	63.54	35.40	38.00	7.96	34.92	Average	---	---

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)

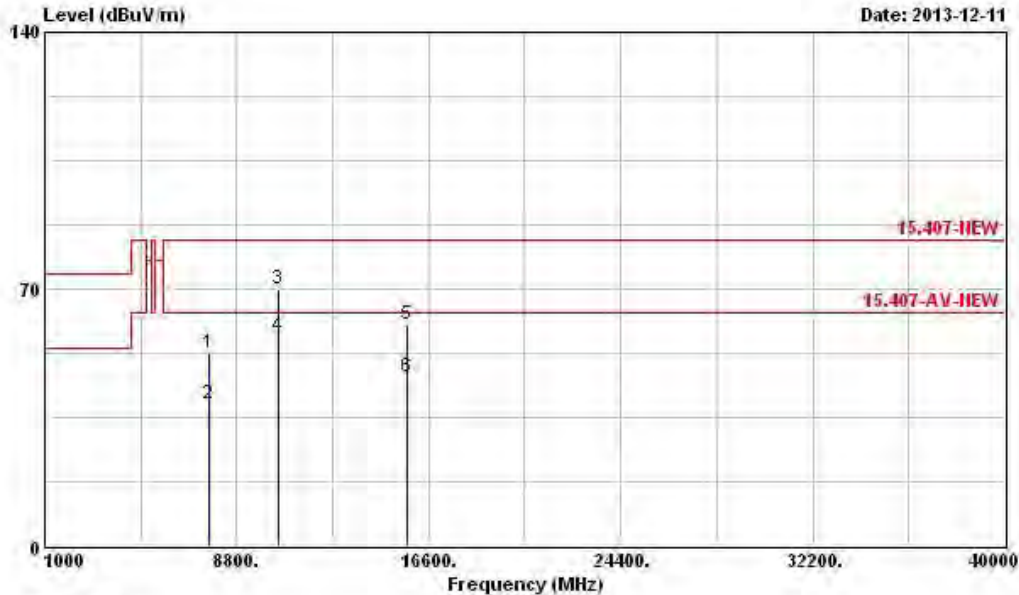
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7680.000	52.37	-31.17	83.54	44.30	37.54	5.58	35.05	Peak	---
2	7680.000	38.57	-24.97	63.54	30.50	37.54	5.58	35.05	Average	---
3	10480.000	70.08	-13.46	83.54	60.30	38.41	6.30	34.93	Peak	---
4	10480.000	57.04	-6.50	63.54	47.26	38.41	6.30	34.93	Average	---
5	15720.000	60.16	-23.38	83.54	49.45	37.88	7.86	35.03	Peak	---
6	15720.000	46.28	-17.26	63.54	35.57	37.88	7.86	35.03	Average	---

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)

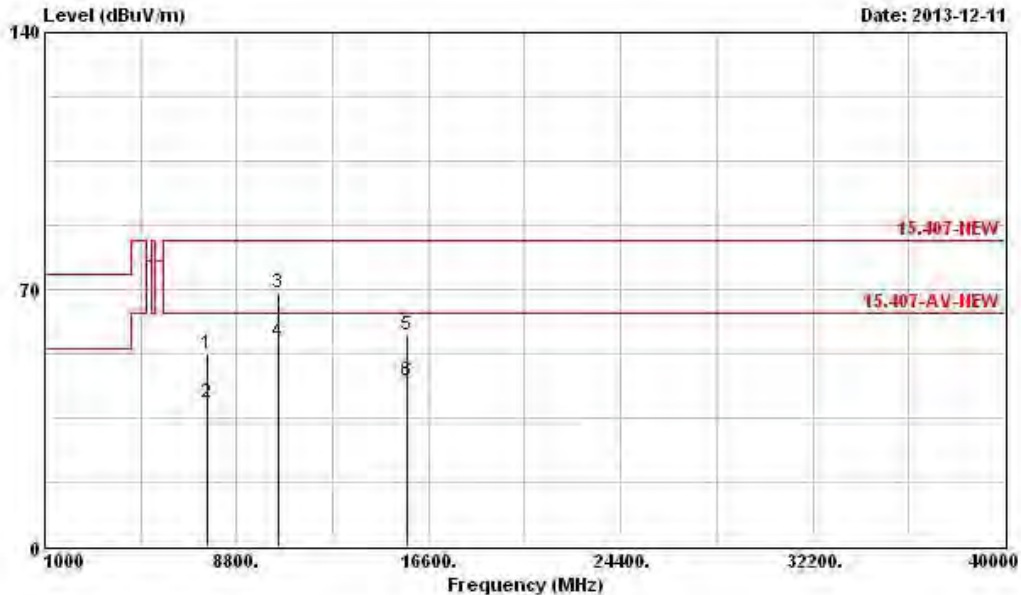
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7600.000	52.42	-31.12	83.54	44.28	37.52	5.64	35.02	Peak	---	---
2	7600.000	39.17	-24.37	63.54	31.03	37.52	5.64	35.02	Average	---	---
3	10480.000	68.89	-14.65	83.54	59.11	38.41	6.30	34.93	Peak	---	---
4	10480.000	55.74	-7.80	63.54	45.96	38.41	6.30	34.93	Average	---	---
5	15720.000	57.76	-25.78	83.54	47.05	37.88	7.86	35.03	Peak	---	---
6	15720.000	45.09	-18.45	63.54	34.38	37.88	7.86	35.03	Average	---	---

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)

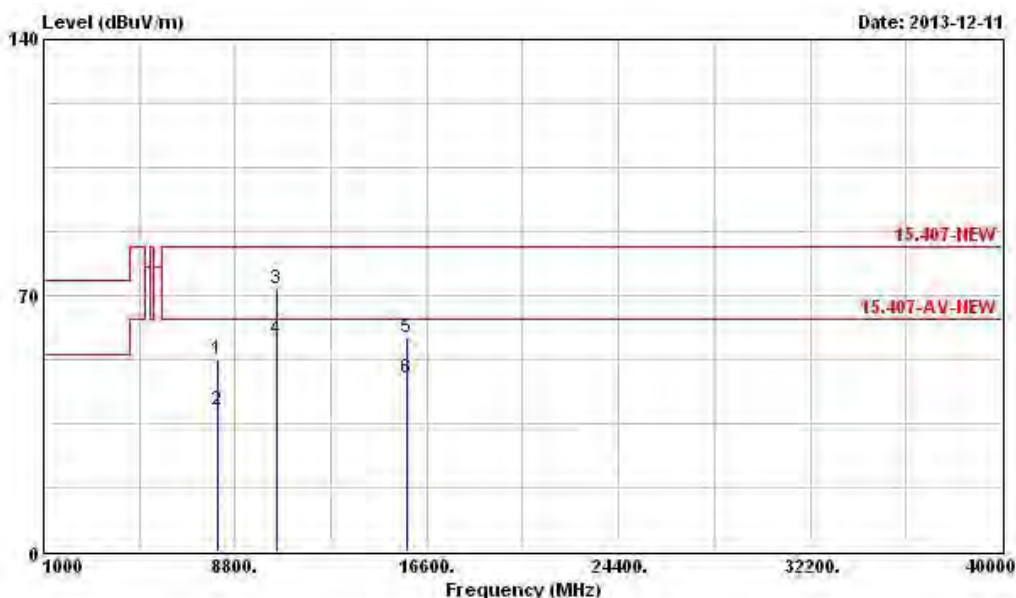
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			Rnt	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8080.000	52.47	-31.07	83.54	44.67	37.60	5.35	35.15	Peak	---	---
2	8080.000	38.71	-24.83	63.54	30.91	37.60	5.35	35.15	Average	---	---
3	10520.000	71.85	-11.69	83.54	62.09	38.40	6.27	34.91	Peak	---	---
4	10520.000	58.07	-5.47	63.54	48.31	38.40	6.27	34.91	Average	---	---
5	15780.000	58.26	-25.28	83.54	47.77	37.82	7.79	35.12	Peak	---	---
6	15780.000	47.43	-16.11	63.54	36.94	37.82	7.79	35.12	Average	---	---

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)

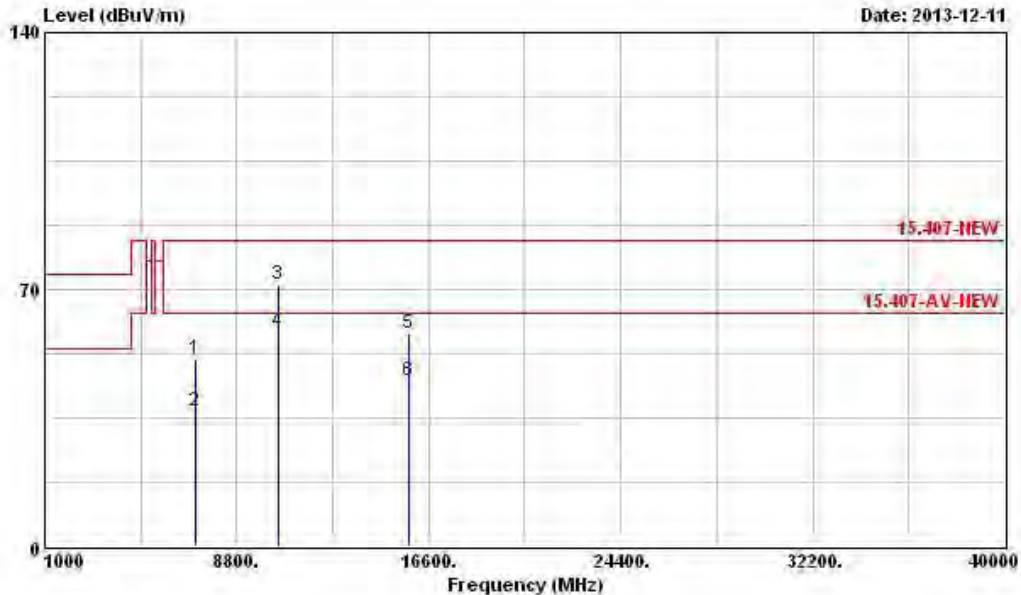
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7120.000	51.15	-32.39	83.54	44.25	36.59	5.23	34.92	Peak	---	---
2	7120.000	36.77	-26.77	63.54	29.87	36.59	5.23	34.92	Average	---	---
3	10520.000	71.49	-12.05	83.54	61.73	38.40	6.27	34.91	Peak	---	---
4	10520.000	58.41	-5.13	63.54	48.65	38.40	6.27	34.91	Average	---	---
5	15780.000	58.23	-25.31	83.54	47.74	37.82	7.79	35.12	Peak	---	---
6	15780.000	45.02	-18.52	63.54	34.53	37.82	7.79	35.12	Average	---	---

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)

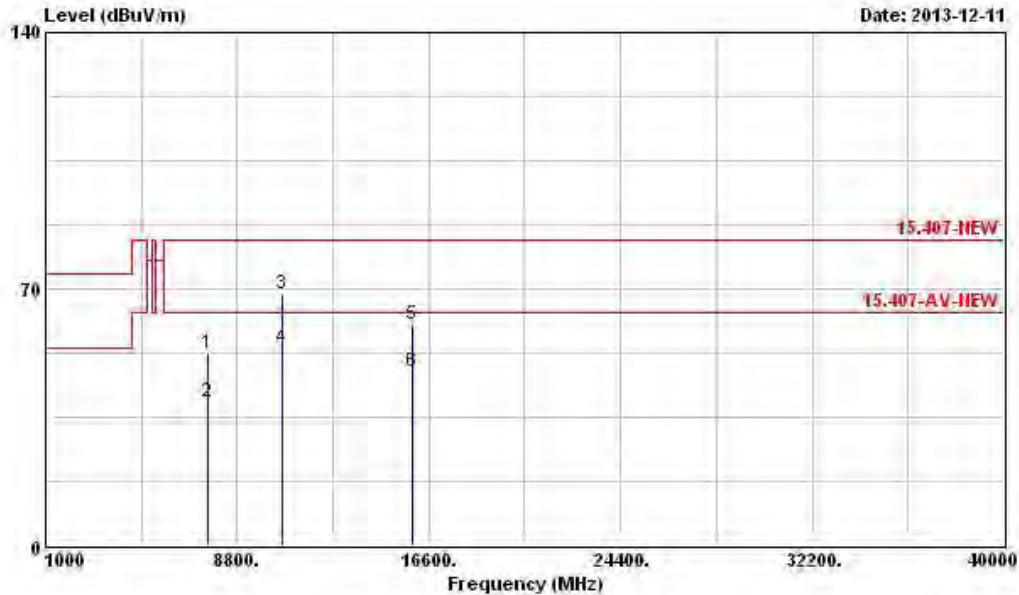
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.58	-30.96	83.54	44.48	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.08	-24.46	63.54	30.98	37.52	5.61	35.03	Average	---	---
3	10600.000	68.69	-14.85	83.54	58.74	38.40	6.27	34.72	Peak	---	---
4	10600.000	53.89	-9.65	63.54	43.94	38.40	6.27	34.72	Average	---	---
5	15900.000	60.22	-23.32	83.54	50.06	37.70	7.69	35.23	Peak	---	---
6	15900.000	47.26	-16.28	63.54	37.10	37.70	7.69	35.23	Average	---	---

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)

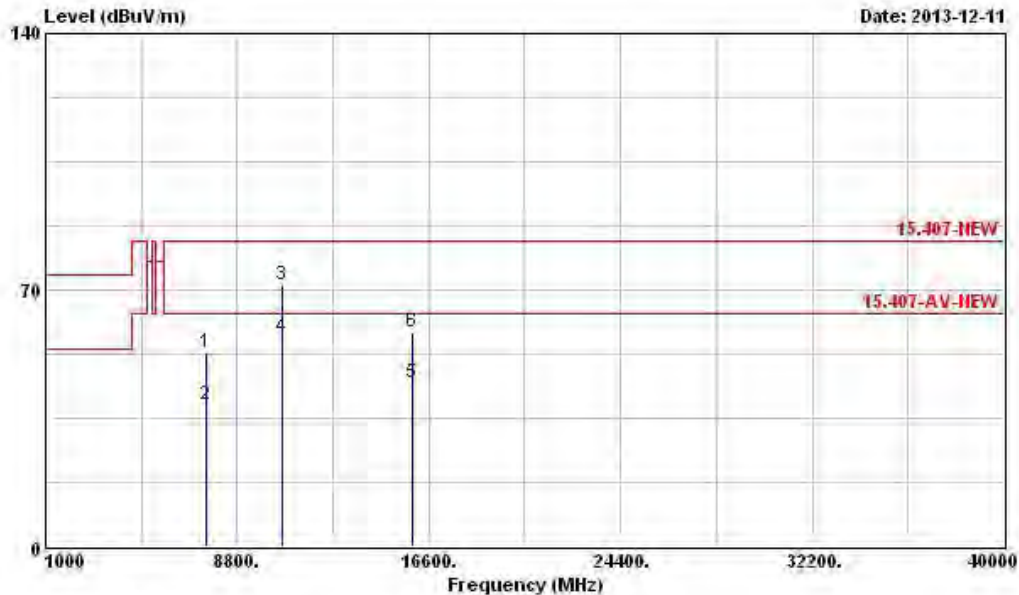
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7500.000	52.95	-30.59	83.54	44.73	37.50	5.71	34.99	Peak	---	---
2	7500.000	38.56	-24.98	63.54	30.34	37.50	5.71	34.99	Average	---	---
3	10600.000	71.19	-12.35	83.54	61.24	38.40	6.27	34.72	Peak	---	---
4	10600.000	56.94	-6.60	63.54	46.99	38.40	6.27	34.72	Average	---	---
5	15900.000	44.64	-18.90	63.54	34.48	37.70	7.69	35.23	Average	---	---
6	15900.000	58.36	-25.18	83.54	48.20	37.70	7.69	35.23	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)

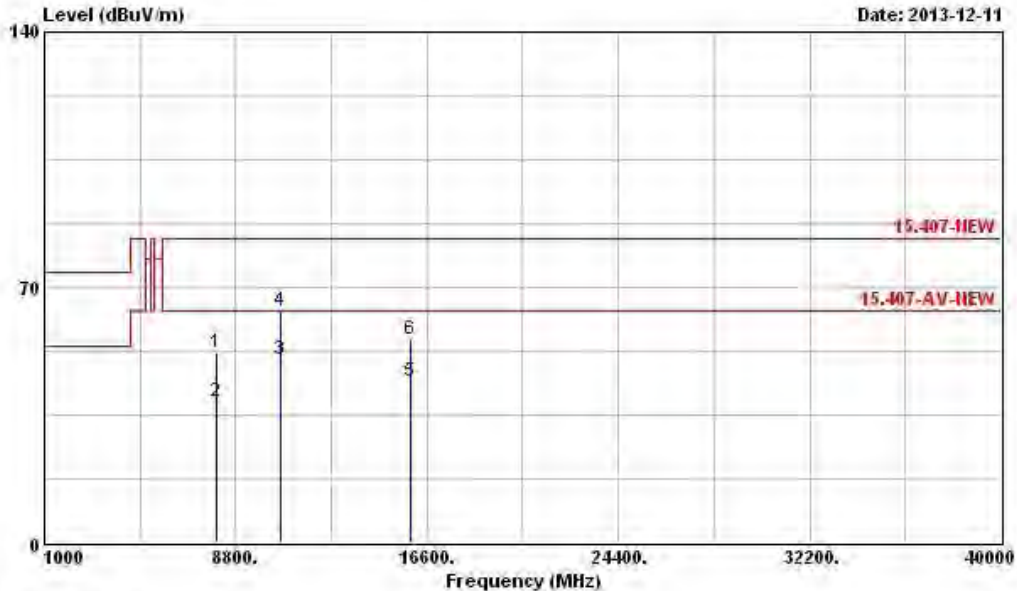
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8040.000	51.84	-31.70	83.54	44.07	37.60	5.33	35.16	Peak	---
2	8040.000	38.60	-24.94	63.54	30.83	37.60	5.33	35.16	Average	---
3	10640.000	50.35	-13.19	63.54	40.28	38.40	6.26	34.59	Average	---
4	10640.000	63.68	-19.86	83.54	53.61	38.40	6.26	34.59	Peak	---
5	15960.000	44.08	-19.46	63.54	34.15	37.63	7.62	35.32	Average	---
6	15960.000	55.50	-28.04	83.54	45.57	37.63	7.62	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)

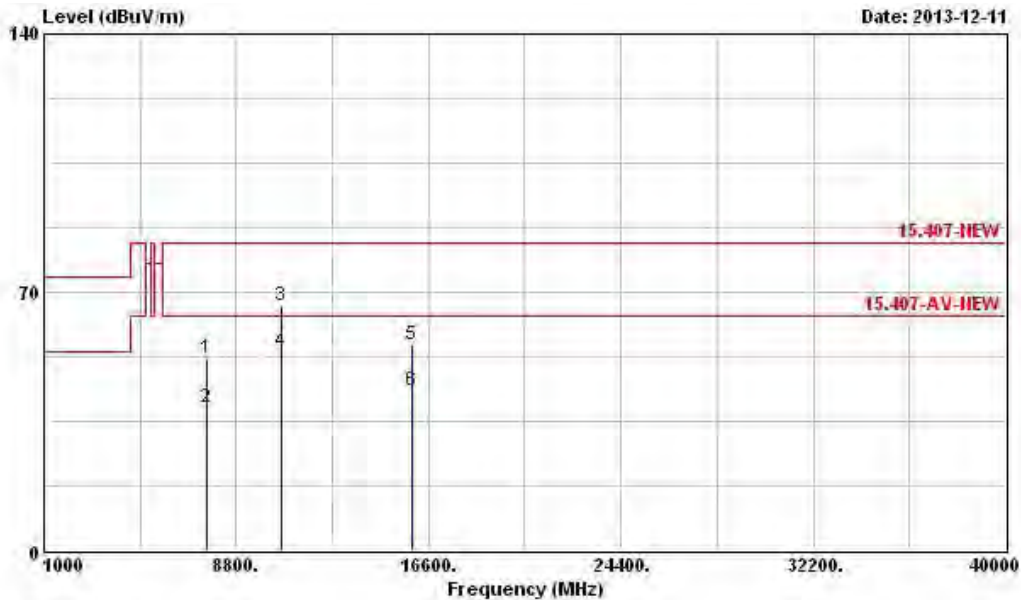
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7580.000	52.22	-31.32	83.54	44.08	37.52	5.64	35.02	Peak	---
2	7580.000	38.88	-24.66	63.54	30.74	37.52	5.64	35.02	Average	---
3	10640.000	66.20	-17.34	83.54	56.13	38.40	6.26	34.59	Peak	---
4	10640.000	53.83	-9.71	63.54	43.76	38.40	6.26	34.59	Average	---
5	15960.000	55.95	-27.59	83.54	46.02	37.63	7.62	35.32	Peak	---
6	15960.000	43.34	-20.20	63.54	33.41	37.63	7.62	35.32	Average	---

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)

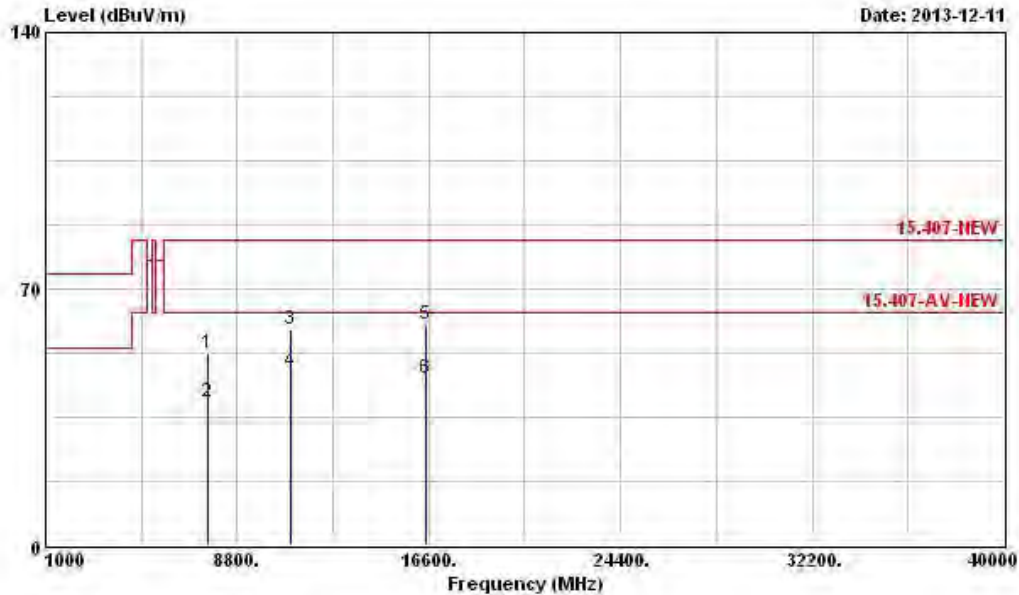
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7580.000	52.67	-30.87	83.54	44.53	37.52	5.64	35.02	Peak	---
2	7580.000	38.94	-24.60	63.54	30.80	37.52	5.64	35.02	Average	---
3	11000.000	59.15	-24.39	83.54	48.23	38.40	6.23	33.71	Peak	---
4	11000.000	47.57	-15.97	63.54	36.65	38.40	6.23	33.71	Average	---
5	16500.000	60.15	-23.39	83.54	47.19	39.10	8.70	34.84	Peak	---
6	16500.000	45.73	-17.81	63.54	32.77	39.10	8.70	34.84	Average	---

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)

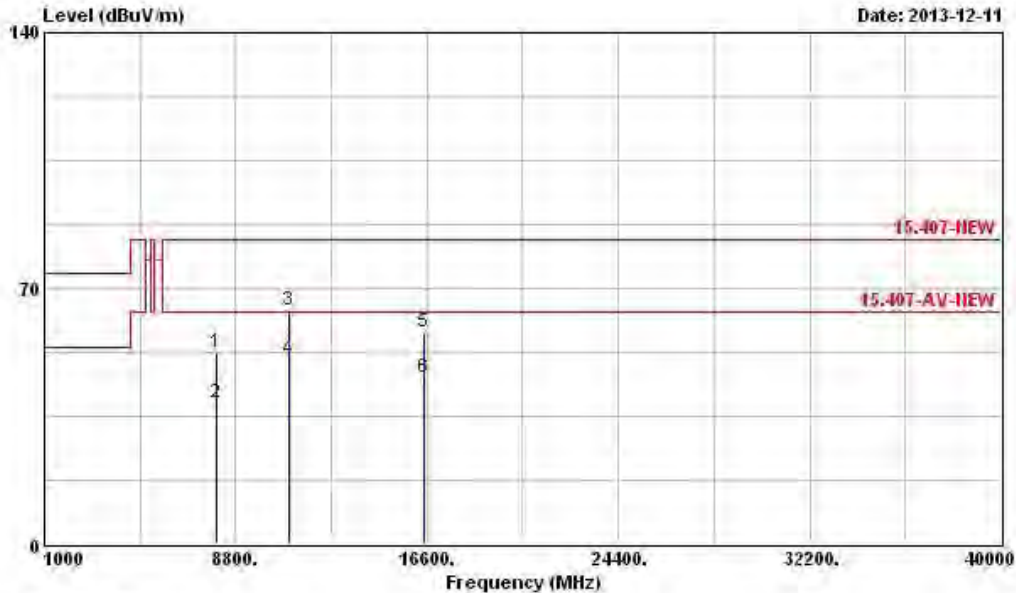
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8040.000	52.44	-31.10	83.54	44.67	37.60	5.33	35.16	Peak	---
2	8040.000	38.56	-24.98	63.54	30.79	37.60	5.33	35.16	Average	---
3	11000.000	64.20	-19.34	83.54	53.28	38.40	6.23	33.71	Peak	---
4	11000.000	50.82	-12.72	63.54	39.90	38.40	6.23	33.71	Average	---
5	16500.000	57.89	-25.65	83.54	44.93	39.10	8.70	34.84	Peak	---
6	16500.000	45.55	-17.99	63.54	32.59	39.10	8.70	34.84	Average	---

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)

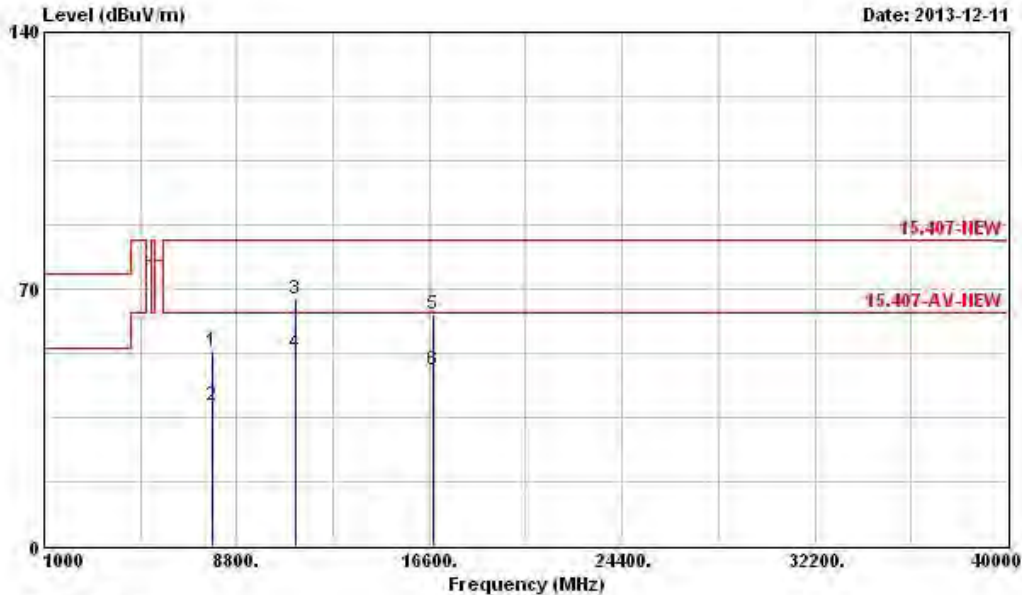
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Loss	Preamp Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7820.000	52.78	-30.76	83.54	44.87	37.56	5.44	35.09	Peak	---
2	7820.000	38.36	-25.18	63.54	30.45	37.56	5.44	35.09	Average	---
3	11160.000	67.17	-16.37	83.54	56.16	38.67	6.28	33.94	Peak	---
4	11160.000	52.29	-11.25	63.54	41.28	38.67	6.28	33.94	Average	---
5	16740.000	62.91	-20.63	83.54	47.98	40.50	8.86	34.43	Peak	---
6	16740.000	47.71	-15.83	63.54	32.78	40.50	8.86	34.43	Average	---

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)

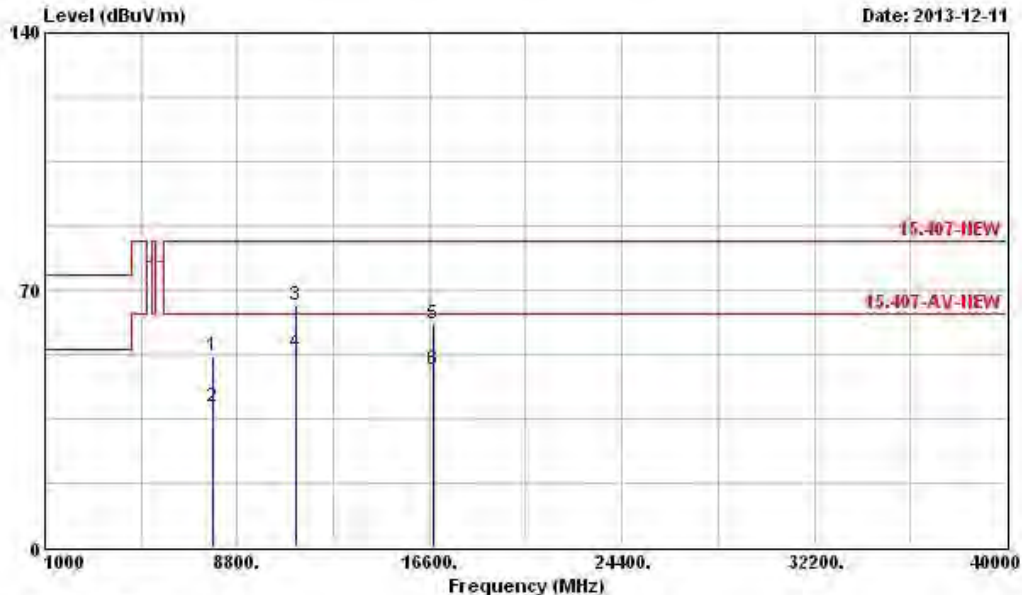
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7840.000	51.99	-31.55	83.54	44.08	37.57	5.44	35.10	Peak	---	---
2	7840.000	38.33	-25.21	63.54	30.42	37.57	5.44	35.10	Average	---	---
3	11160.000	65.99	-17.55	83.54	54.98	38.67	6.28	33.94	Peak	---	---
4	11160.000	52.96	-10.58	63.54	41.95	38.67	6.28	33.94	Average	---	---
5	16740.000	60.68	-22.86	83.54	45.75	40.50	8.86	34.43	Peak	---	---
6	16740.000	48.27	-15.27	63.54	33.34	40.50	8.86	34.43	Average	---	---

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)

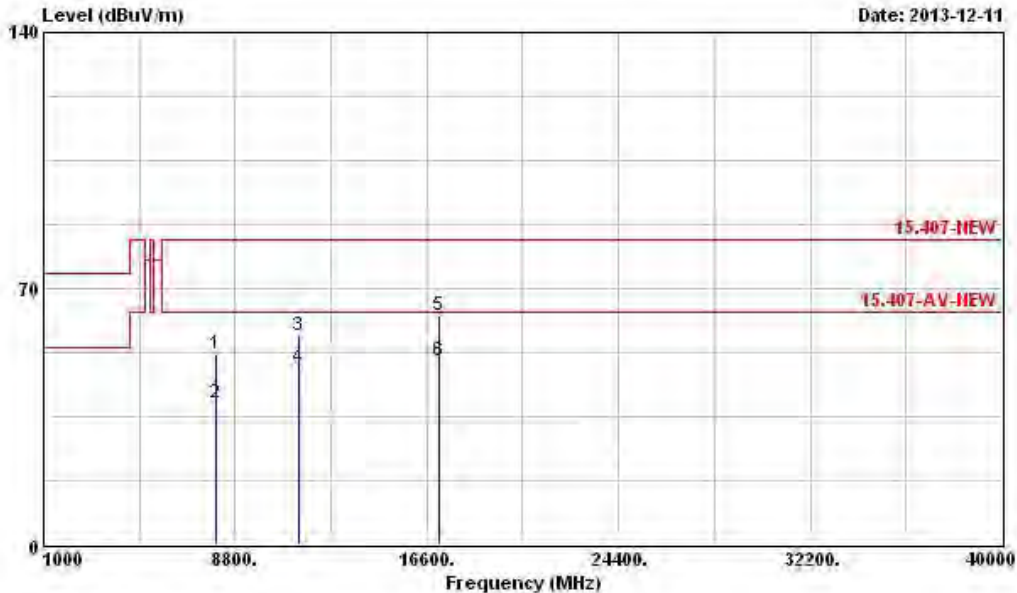
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8044.000	51.98	-31.56	83.54	44.21	37.60	5.33	35.16	Peak	---
2	8044.000	38.49	-25.05	63.54	30.72	37.60	5.33	35.16	Average	---
3	11400.000	57.27	-26.27	83.54	46.22	39.04	6.34	34.33	Peak	---
4	11400.000	48.32	-15.22	63.54	37.27	39.04	6.34	34.33	Average	---
5	17100.000	62.46	-21.08	83.54	44.68	42.72	8.98	33.92	Peak	---
6	17100.000	50.18	-13.36	63.54	32.40	42.72	8.98	33.92	Average	---

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)

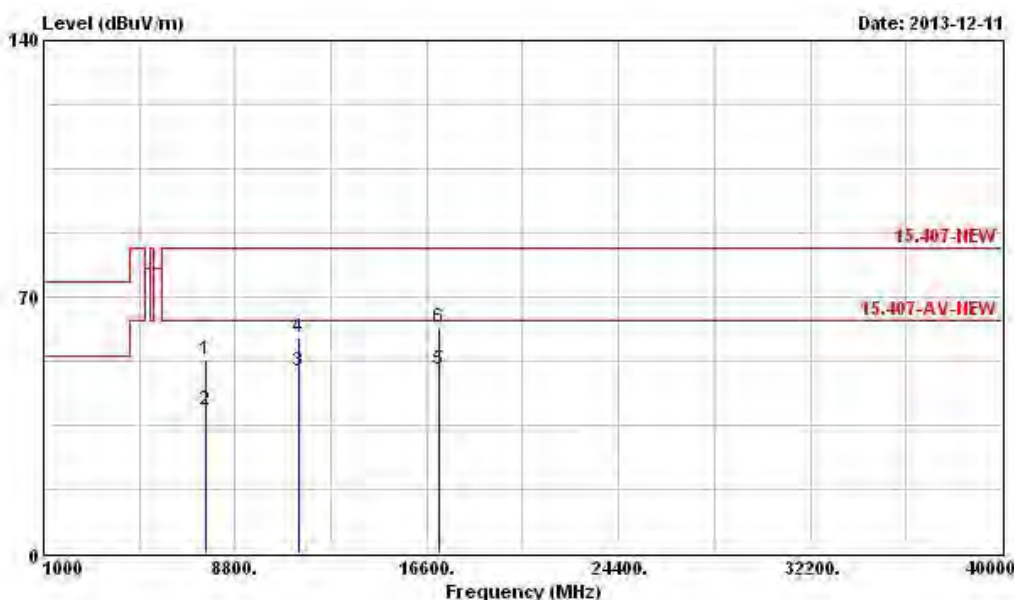
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.75	-30.79	83.54	44.65	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.08	-24.46	63.54	30.98	37.52	5.61	35.03	Average	---	---
3	11400.000	49.55	-13.99	63.54	38.50	39.04	6.34	34.33	Average	---	---
4	11400.000	58.89	-24.65	83.54	47.84	39.04	6.34	34.33	Peak	---	---
5	17100.000	50.29	-13.25	63.54	32.51	42.72	8.98	33.92	Average	---	---
6	17100.000	61.91	-21.63	83.54	44.13	42.72	8.98	33.92	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.)

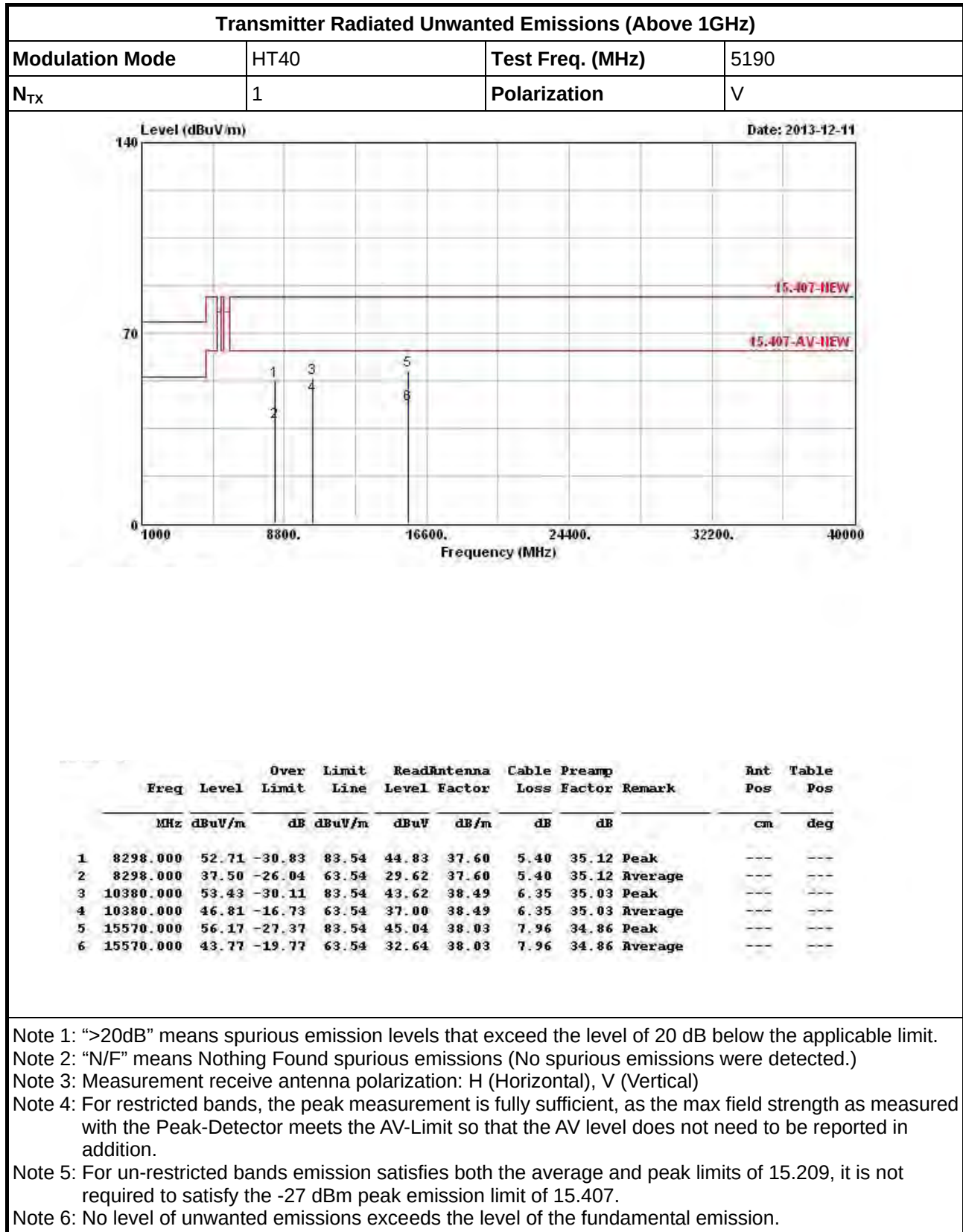
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

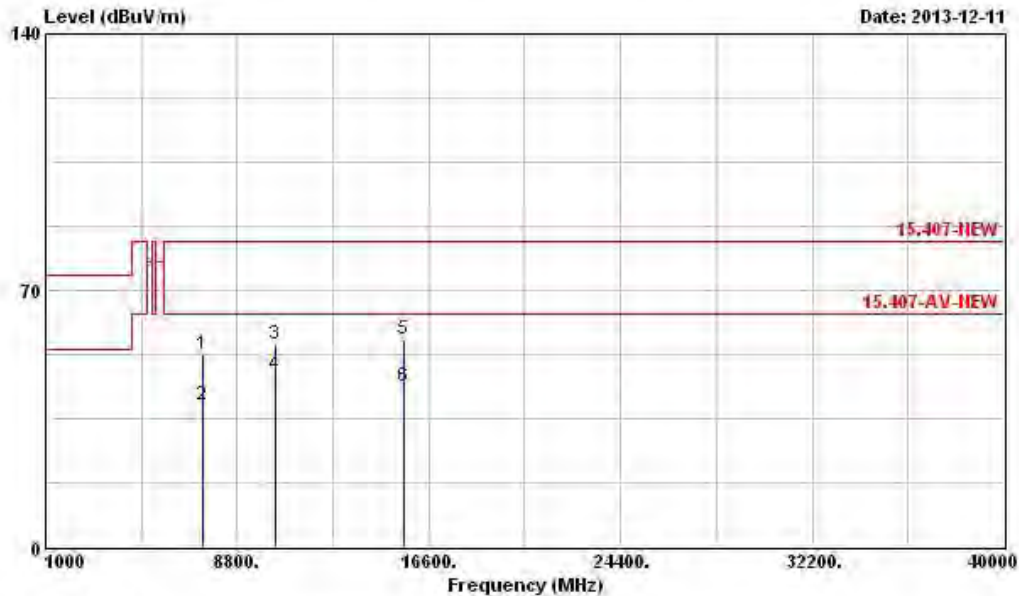
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant. Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7400.000	52.65	-30.89	83.54	44.80	37.25	5.57	34.97	Peak	---	---
2	7400.000	38.60	-24.94	63.54	30.75	37.25	5.57	34.97	Average	---	---
3	10380.000	55.40	-28.14	83.54	45.59	38.49	6.35	35.03	Peak	---	---
4	10380.000	47.06	-16.48	63.54	37.25	38.49	6.35	35.03	Average	---	---
5	15570.000	56.86	-26.68	83.54	45.73	38.03	7.96	34.86	Peak	---	---
6	15570.000	43.54	-20.00	63.54	32.41	38.03	7.96	34.86	Average	---	---

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)

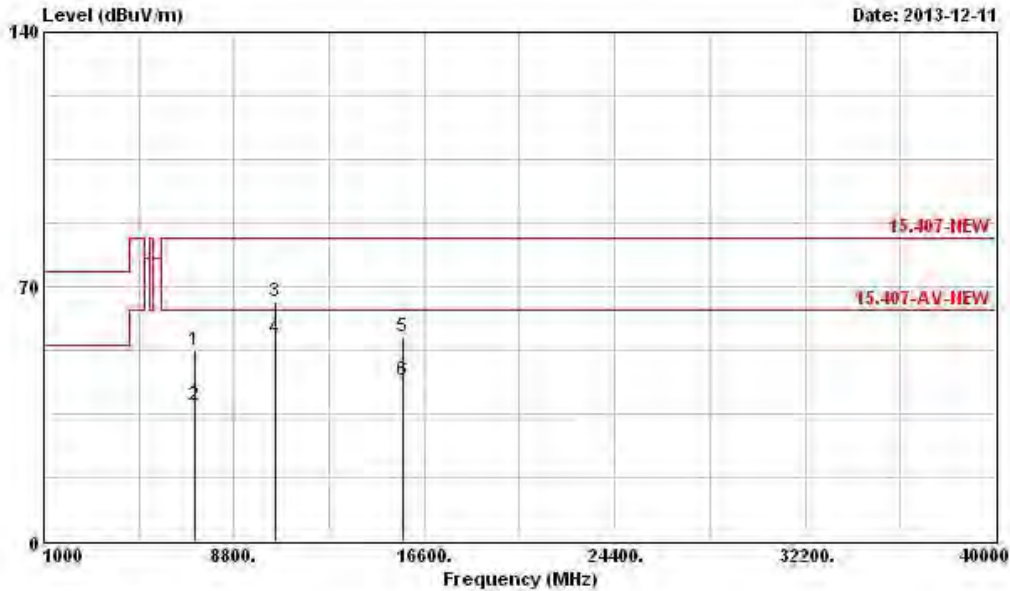
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7160.000	52.46	-31.08	83.54	45.43	36.67	5.28	34.92	Peak	---	---
2	7160.000	37.25	-26.29	63.54	30.22	36.67	5.28	34.92	Average	---	---
3	10460.000	65.87	-17.67	83.54	56.09	38.44	6.30	34.96	Peak	---	---
4	10460.000	55.84	-7.70	63.54	46.06	38.44	6.30	34.96	Average	---	---
5	15690.000	56.19	-27.35	83.54	45.42	37.91	7.86	35.00	Peak	---	---
6	15690.000	43.99	-19.55	63.54	33.22	37.91	7.86	35.00	Average	---	---

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)

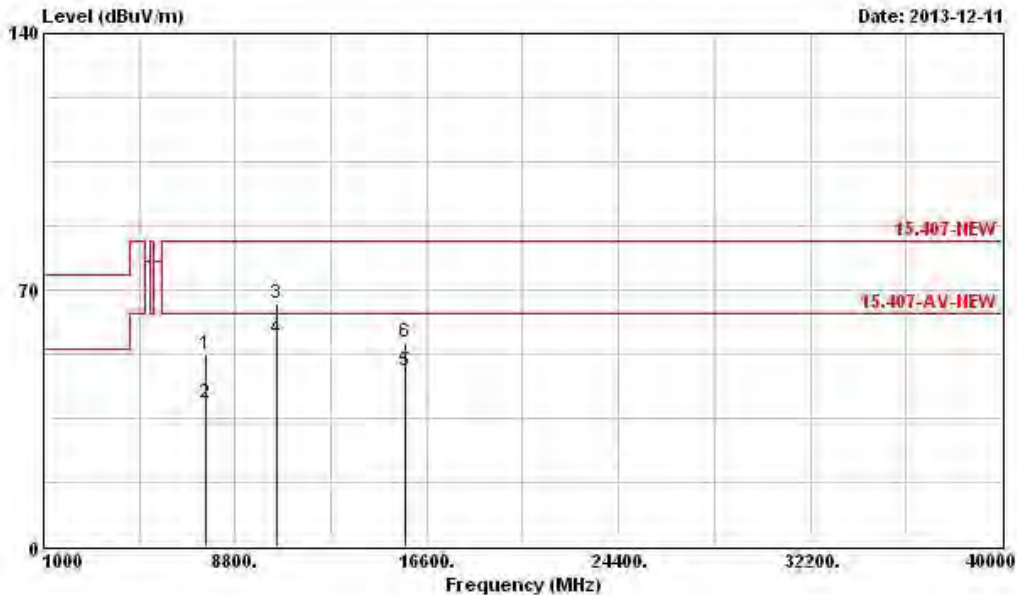
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7600.000	52.65	-30.89	83.54	44.51	37.52	5.64	35.02	Peak	---	---
2	7600.000	39.28	-24.26	63.54	31.14	37.52	5.64	35.02	Average	---	---
3	10460.000	66.32	-17.22	83.54	56.54	38.44	6.30	34.96	Peak	---	---
4	10460.000	56.81	-6.73	63.54	47.03	38.44	6.30	34.96	Average	---	---
5	15690.000	48.05	-15.49	63.54	37.28	37.91	7.86	35.00	Average	---	---
6	15690.000	55.53	-28.01	83.54	44.76	37.91	7.86	35.00	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)

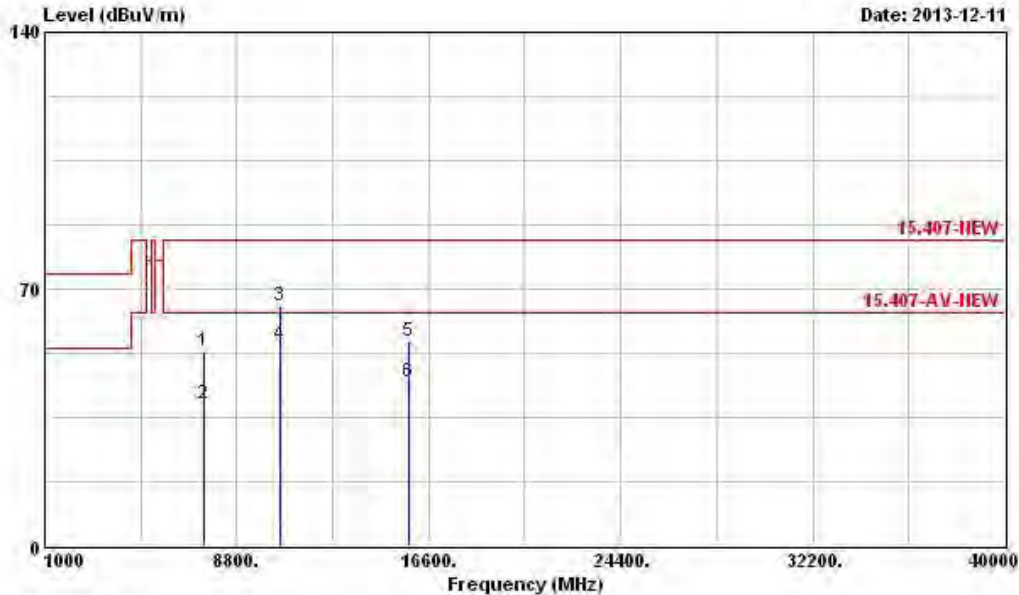
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7460.000	52.77	-30.77	83.54	44.67	37.42	5.66	34.98	Peak	---	---
2	7460.000	38.89	-24.65	63.54	30.79	37.42	5.66	34.98	Average	---	---
3	10540.000	65.35	-18.19	83.54	55.53	38.40	6.27	34.85	Peak	---	---
4	10540.000	54.93	-8.61	63.54	45.11	38.40	6.27	34.85	Average	---	---
5	15810.000	55.87	-27.67	83.54	45.47	37.79	7.76	35.15	Peak	---	---
6	15810.000	44.54	-19.00	63.54	34.14	37.79	7.76	35.15	Average	---	---

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)

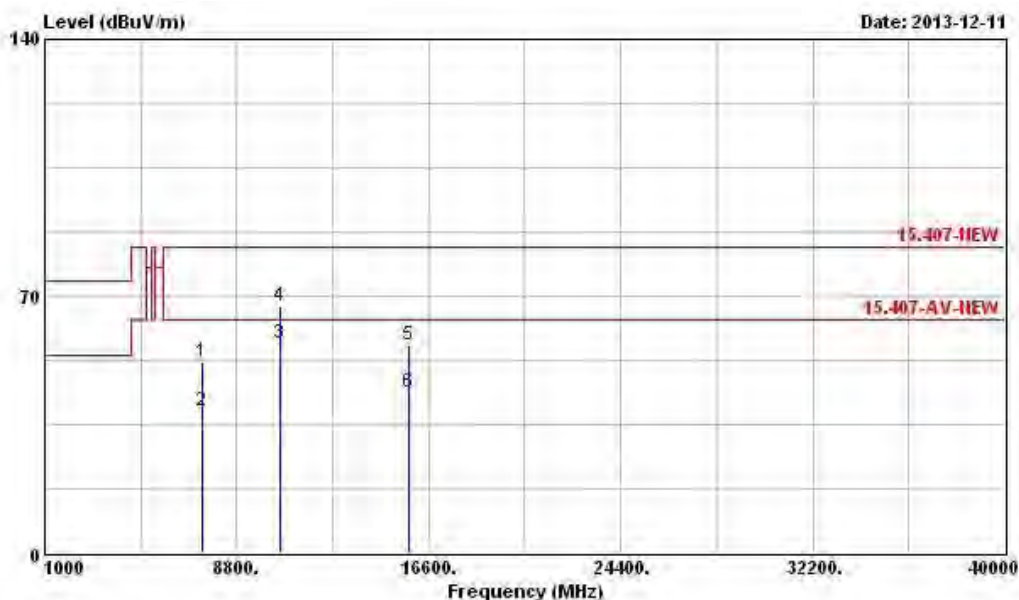
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7420.000	51.83	-31.71	83.54	43.87	37.33	5.61	34.98	Peak	---	---
2	7420.000	38.64	-24.90	63.54	30.68	37.33	5.61	34.98	Average	---	---
3	10540.000	56.88	-6.66	63.54	47.06	38.40	6.27	34.85	Average	---	---
4	10540.000	67.15	-16.39	83.54	57.33	38.40	6.27	34.85	Peak	---	---
5	15810.000	56.64	-26.90	83.54	46.24	37.79	7.76	35.15	Peak	---	---
6	15810.000	43.68	-19.86	63.54	33.28	37.79	7.76	35.15	Average	---	---

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)

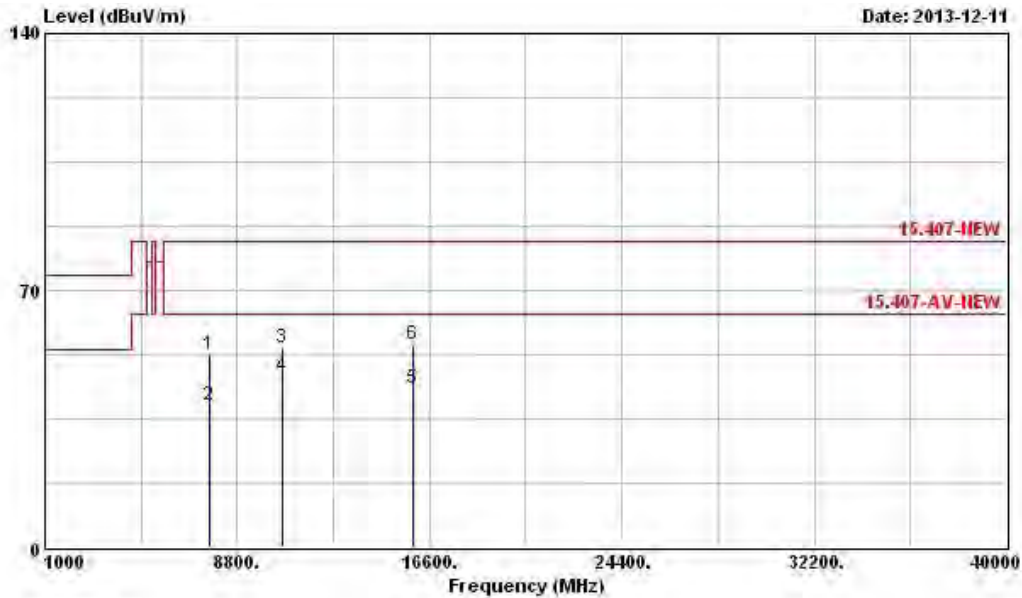
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7700.000	52.38	-31.16	83.54	44.36	37.54	5.54	35.06	Peak	---
2	7700.000	38.57	-24.97	63.54	30.55	37.54	5.54	35.06	Average	---
3	10620.000	54.25	-29.29	83.54	44.25	38.40	6.26	34.66	Peak	---
4	10620.000	46.65	-16.89	63.54	36.65	38.40	6.26	34.66	Average	---
5	15930.000	43.13	-20.41	63.54	33.06	37.67	7.66	35.26	Average	---
6	15930.000	55.08	-28.46	83.54	45.01	37.67	7.66	35.26	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)

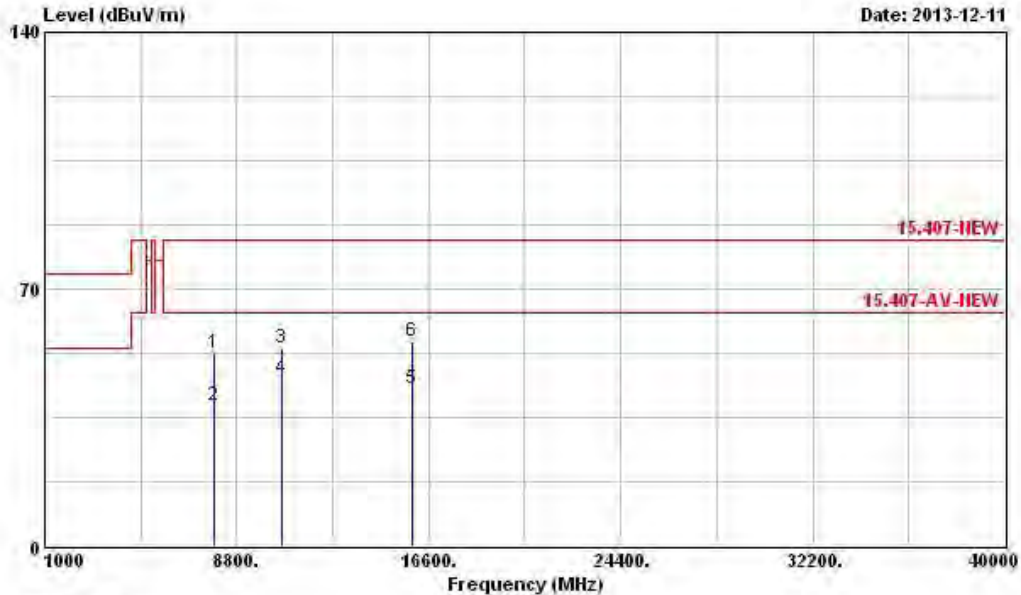
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7900.000	52.58	-30.96	83.54	44.75	37.58	5.38	35.13	Peak	---
2	7900.000	38.05	-25.49	63.54	30.22	37.58	5.38	35.13	Average	---
3	10620.000	53.84	-29.70	83.54	43.84	38.40	6.26	34.66	Peak	---
4	10620.000	45.78	-17.76	63.54	35.78	38.40	6.26	34.66	Average	---
5	15930.000	42.86	-20.68	63.54	32.79	37.67	7.66	35.26	Average	---
6	15930.000	55.53	-28.01	83.54	45.46	37.67	7.66	35.26	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)

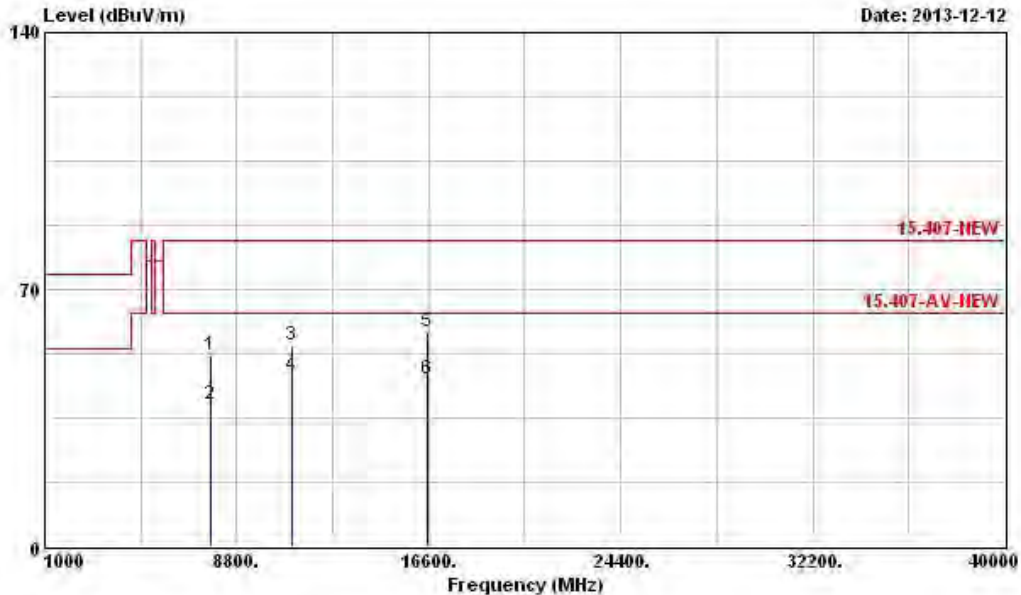
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7712.000	52.20	-31.34	83.54	44.18	37.54	5.54	35.06	Peak	---	---
2	7712.000	38.52	-25.02	63.54	30.50	37.54	5.54	35.06	Average	---	---
3	11020.000	54.63	-28.91	83.54	43.71	38.43	6.24	33.75	Peak	---	---
4	11020.000	46.45	-17.09	63.54	35.53	38.43	6.24	33.75	Average	---	---
5	16530.000	58.61	-24.93	83.54	45.37	39.30	8.73	34.79	Peak	---	---
6	16530.000	45.61	-17.93	63.54	32.37	39.30	8.73	34.79	Average	---	---

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)

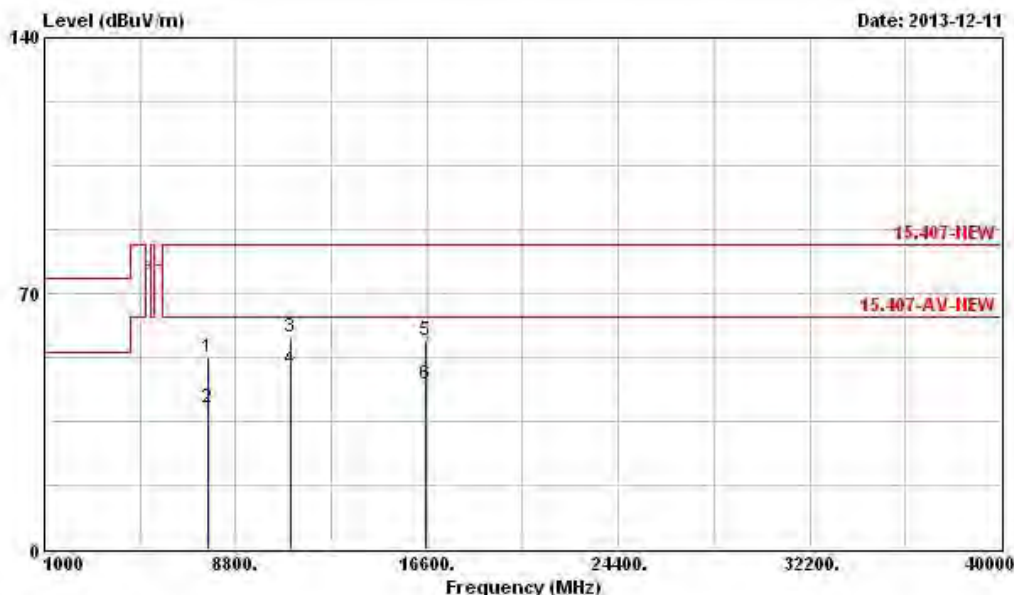
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
1	7700.000	52.51	-31.03	83.54	44.49	37.54	5.54	35.06	Peak	---
2	7700.000	38.48	-25.06	63.54	30.46	37.54	5.54	35.06	Average	---
3	11020.000	57.93	-25.61	83.54	47.01	38.43	6.24	33.75	Peak	---
4	11020.000	49.45	-14.09	63.54	38.53	38.43	6.24	33.75	Average	---
5	16530.000	56.96	-26.58	83.54	43.72	39.30	8.73	34.79	Peak	---
6	16530.000	45.35	-18.19	63.54	32.11	39.30	8.73	34.79	Average	---

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)

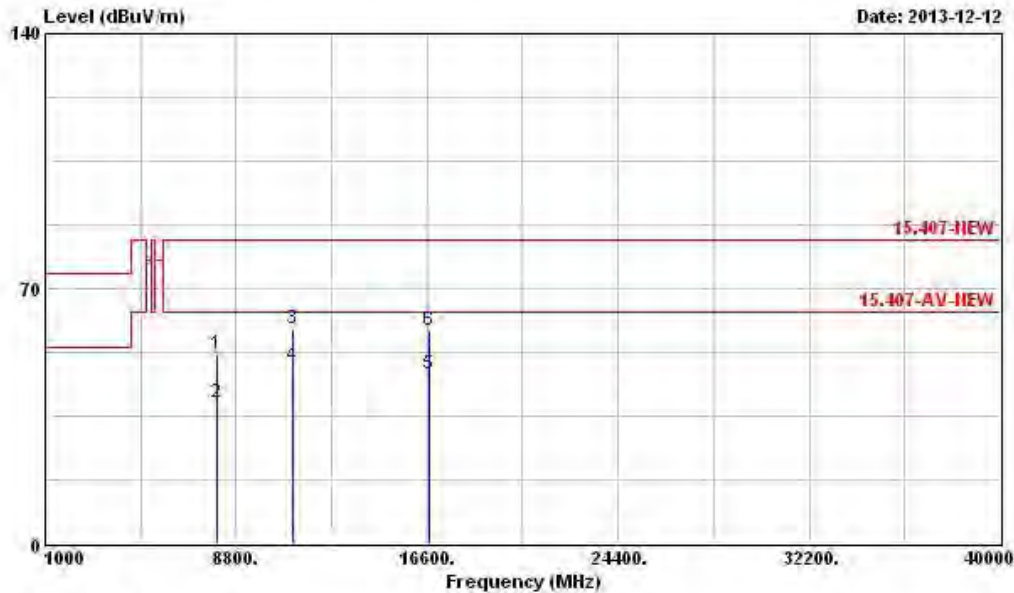
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8040.000	52.21	-31.33	83.54	44.44	37.60	5.33	35.16	Peak	---	---
2	8040.000	38.60	-24.94	63.54	30.83	37.60	5.33	35.16	Average	---	---
3	11100.000	58.93	-24.61	83.54	47.97	38.56	6.26	33.86	Peak	---	---
4	11100.000	48.64	-14.90	63.54	37.68	38.56	6.26	33.86	Average	---	---
5	16650.000	46.69	-16.85	63.54	32.46	40.00	8.80	34.57	Average	---	---
6	16650.000	58.55	-24.99	83.54	44.32	40.00	8.80	34.57	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)

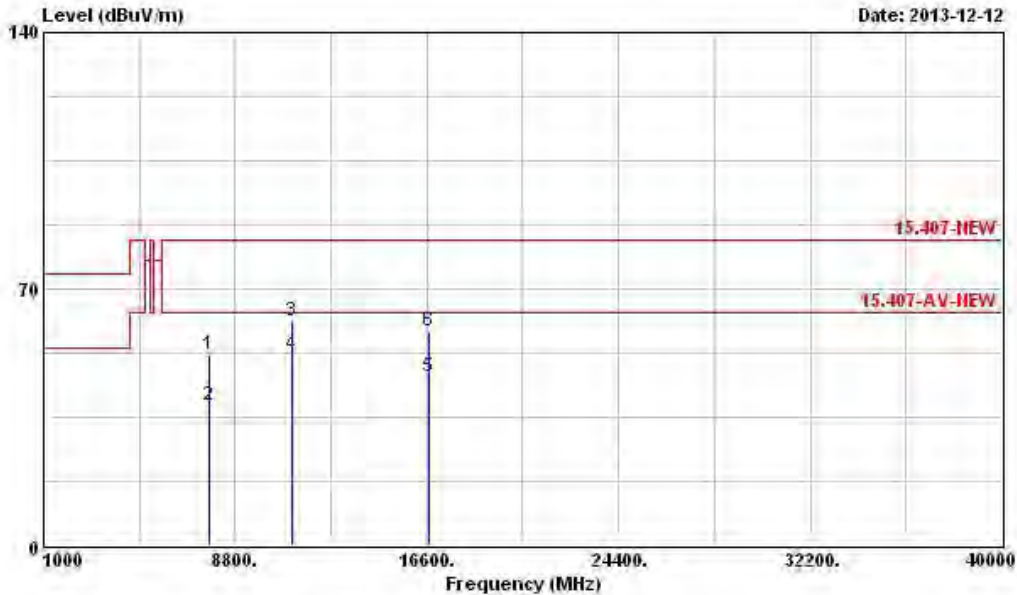
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp				
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Remark	Ant	Table
										Pos	Pos
										cm	deg
1	7760.000	52.26	-31.28	83.54	44.28	37.55	5.51	35.08	Peak	---	---
2	7760.000	38.44	-25.10	63.54	30.46	37.55	5.51	35.08	Average	---	---
3	11100.000	61.31	-22.23	83.54	50.35	38.56	6.26	33.86	Peak	---	---
4	11100.000	51.87	-11.67	63.54	40.91	38.56	6.26	33.86	Average	---	---
5	16650.000	46.26	-17.28	63.54	32.03	40.00	8.80	34.57	Average	---	---
6	16650.000	58.45	-25.09	83.54	44.22	40.00	8.80	34.57	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)

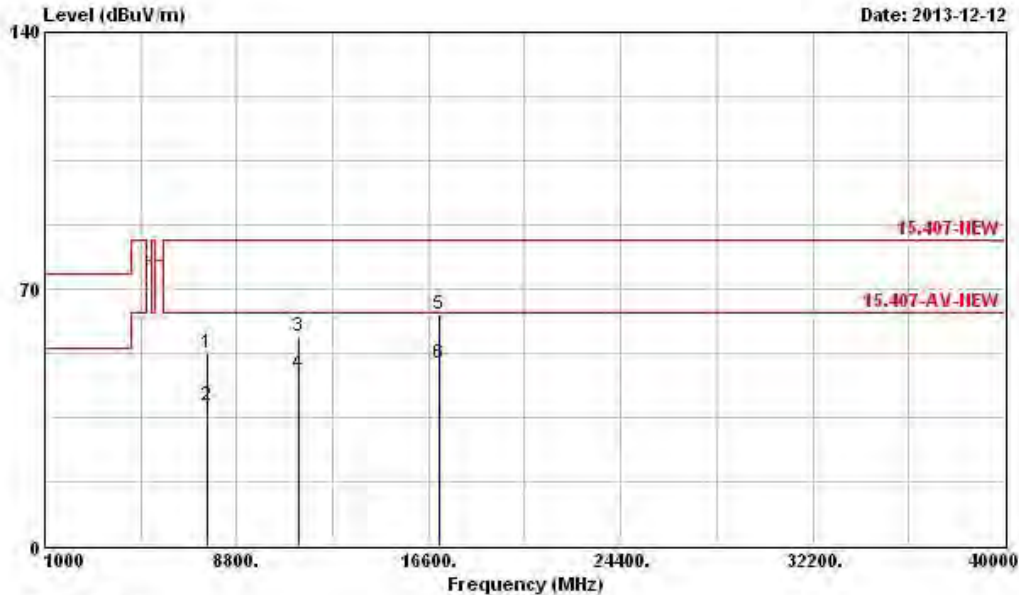
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7618.000	52.37	-31.17	83.54	44.27	37.52	5.61	35.03	Peak	---
2	7618.000	38.07	-25.47	63.54	29.97	37.52	5.61	35.03	Average	---
3	11340.000	56.95	-26.59	83.54	45.91	38.93	6.32	34.21	Peak	---
4	11340.000	46.87	-16.67	63.54	35.83	38.93	6.32	34.21	Average	---
5	17010.000	62.99	-20.55	83.54	45.84	42.12	8.99	33.96	Peak	---
6	17010.000	49.67	-13.87	63.54	32.52	42.12	8.99	33.96	Average	---

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)

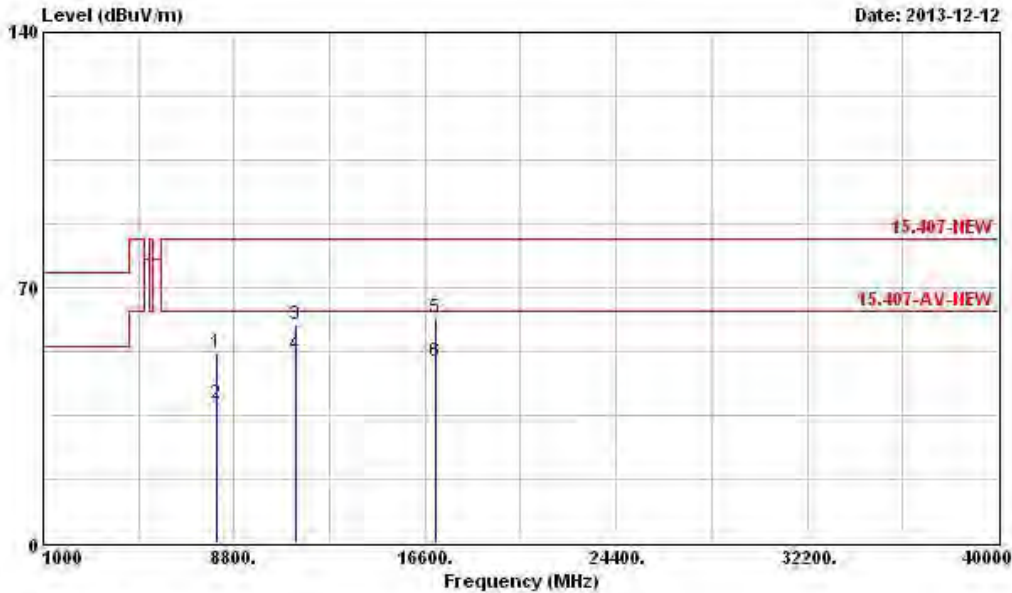
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8082.000	52.21	-31.33	83.54	44.41	37.60	5.35	35.15	Peak	---	---
2	8082.000	38.35	-25.19	63.54	30.55	37.60	5.35	35.15	Average	---	---
3	11340.000	59.73	-23.81	83.54	48.69	38.93	6.32	34.21	Peak	---	---
4	11340.000	51.37	-12.17	63.54	40.33	38.93	6.32	34.21	Average	---	---
5	17010.000	61.78	-21.76	83.54	44.63	42.12	8.99	33.96	Peak	---	---
6	17010.000	49.64	-13.90	63.54	32.49	42.12	8.99	33.96	Average	---	---

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.)

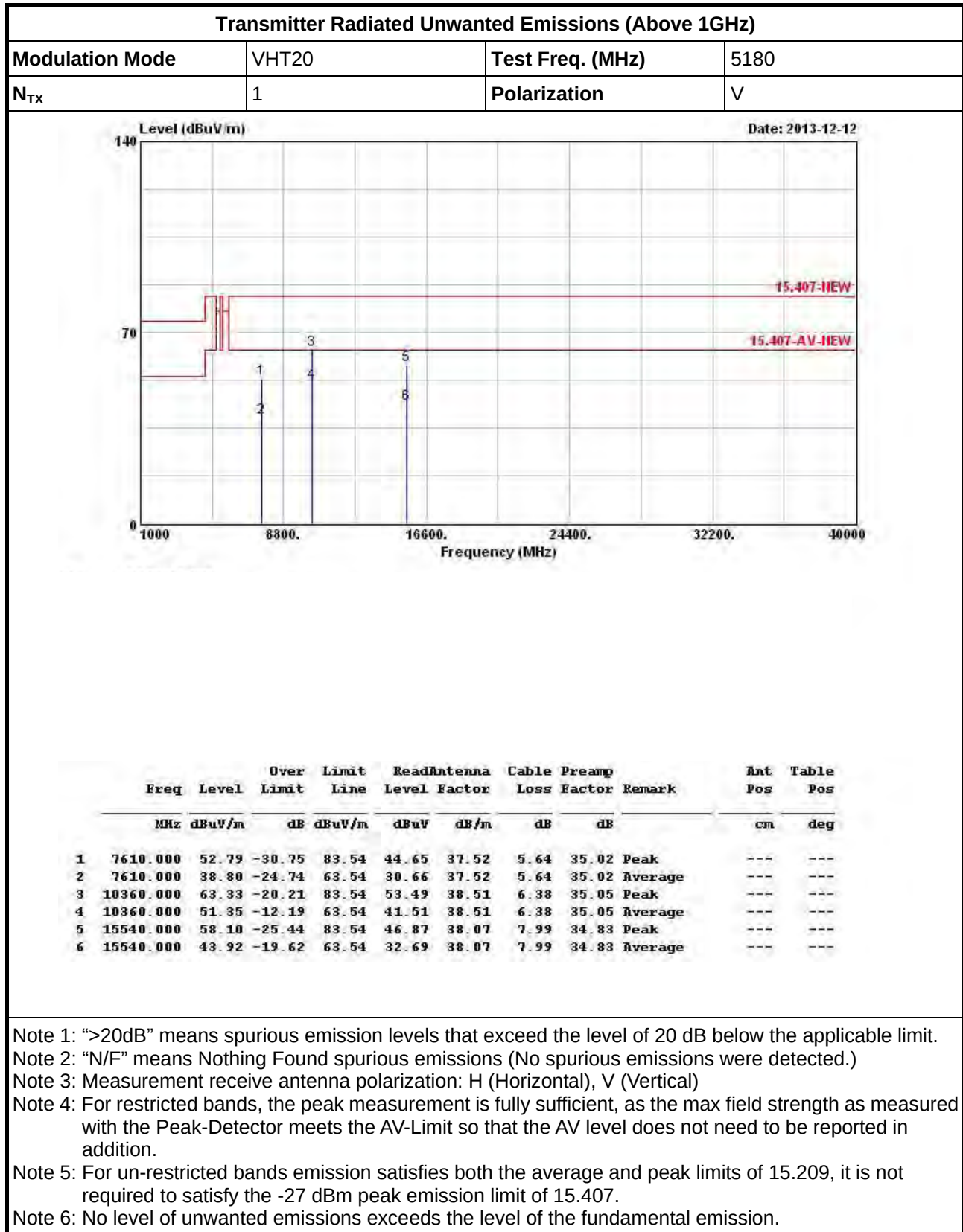
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

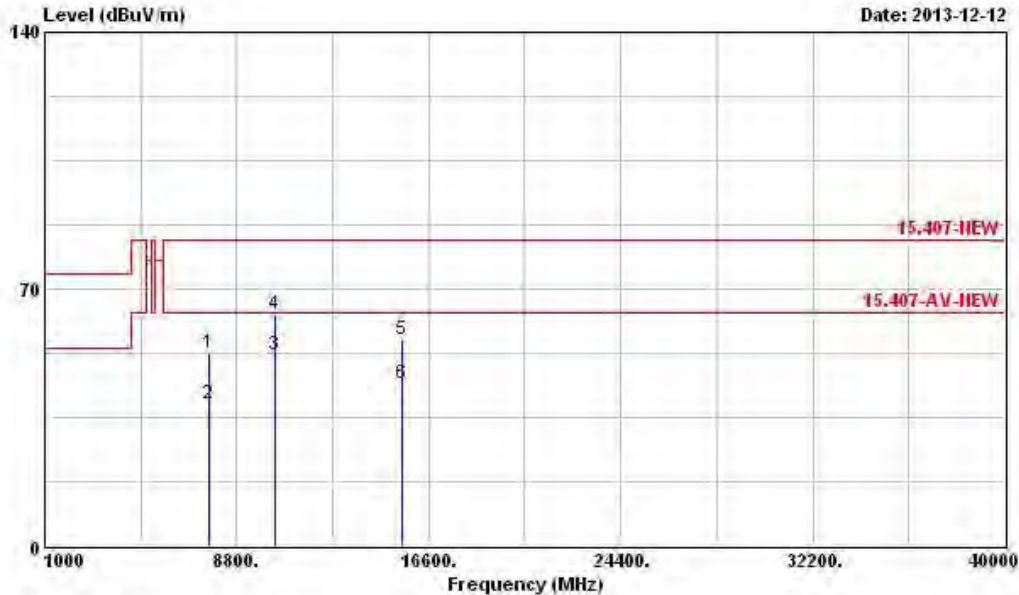
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5180
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7680.000	52.35	-31.19	83.54	44.28	37.54	5.58	35.05	Peak	---	---
2	7680.000	38.52	-25.02	63.54	30.45	37.54	5.58	35.05	Average	---	---
3	10360.000	52.07	-11.47	63.54	42.23	38.51	6.38	35.05	Average	---	---
4	10360.000	62.89	-20.65	83.54	53.05	38.51	6.38	35.05	Peak	---	---
5	15540.000	56.23	-27.31	83.54	45.00	38.07	7.99	34.83	Peak	---	---
6	15540.000	44.04	-19.50	63.54	32.81	38.07	7.99	34.83	Average	---	---

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)

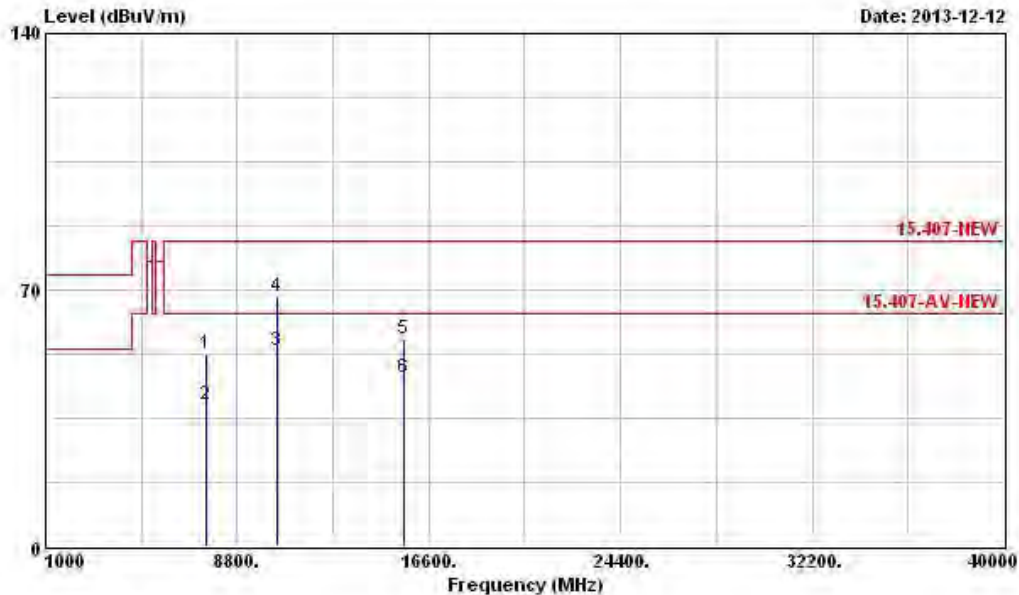
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7540.000	52.39	-31.15	83.54	44.20	37.51	5.68	35.00	Peak	---	---
2	7540.000	38.54	-25.00	63.54	30.35	37.51	5.68	35.00	Average	---	---
3	10400.000	53.34	-10.20	63.54	43.51	38.48	6.35	35.00	Average	---	---
4	10400.000	68.13	-15.41	83.54	58.30	38.48	6.35	35.00	Peak	---	---
5	15600.000	56.79	-26.75	83.54	45.75	38.00	7.96	34.92	Peak	---	---
6	15600.000	45.89	-17.65	63.54	34.85	38.00	7.96	34.92	Average	---	---

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)

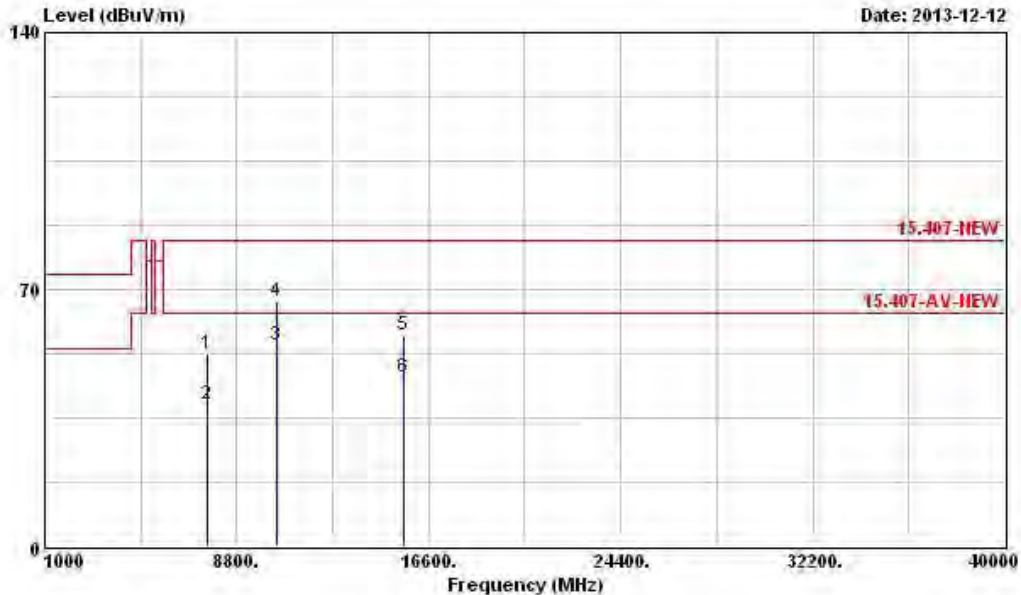
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5200
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7600.000	52.52	-31.02	83.54	44.38	37.52	5.64	35.02	Peak	---	---
2	7600.000	38.69	-24.85	63.54	30.55	37.52	5.64	35.02	Average	---	---
3	10400.000	54.71	-8.83	63.54	44.88	38.48	6.35	35.00	Average	---	---
4	10400.000	66.99	-16.55	83.54	57.16	38.48	6.35	35.00	Peak	---	---
5	15600.000	57.35	-26.19	83.54	46.31	38.00	7.96	34.92	Peak	---	---
6	15600.000	46.00	-17.54	63.54	34.96	38.00	7.96	34.92	Average	---	---

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)

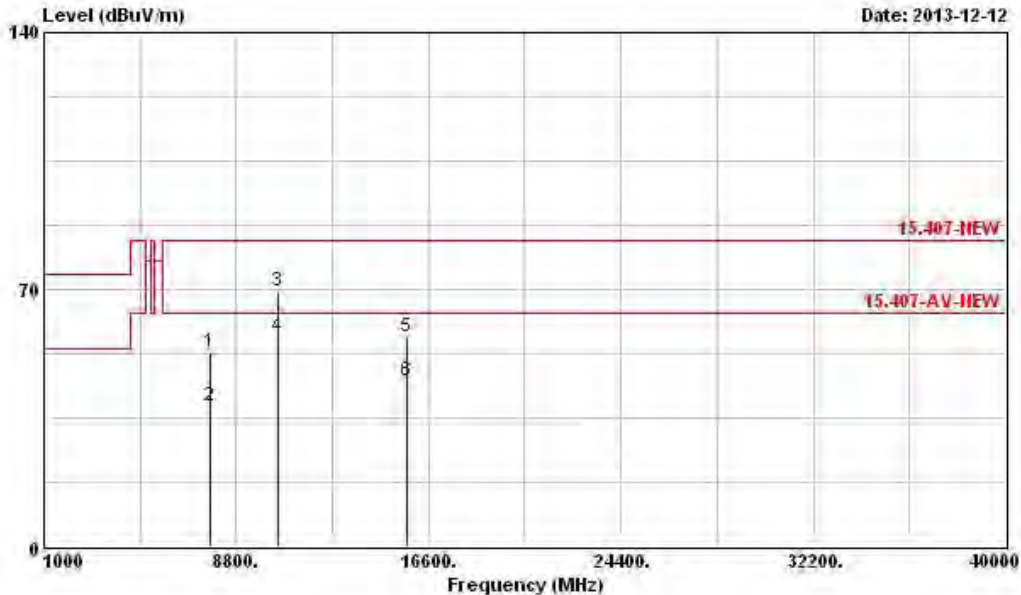
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7740.000	52.87	-30.67	83.54	44.88	37.55	5.51	35.07	Peak	---	---
2	7740.000	38.17	-25.37	63.54	30.18	37.55	5.51	35.07	Average	---	---
3	10480.000	69.57	-13.97	83.54	59.79	38.41	6.30	34.93	Peak	---	---
4	10480.000	57.27	-6.27	63.54	47.49	38.41	6.30	34.93	Average	---	---
5	15720.000	57.00	-26.54	83.54	46.29	37.88	7.86	35.03	Peak	---	---
6	15720.000	45.22	-18.32	63.54	34.51	37.88	7.86	35.03	Average	---	---

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)

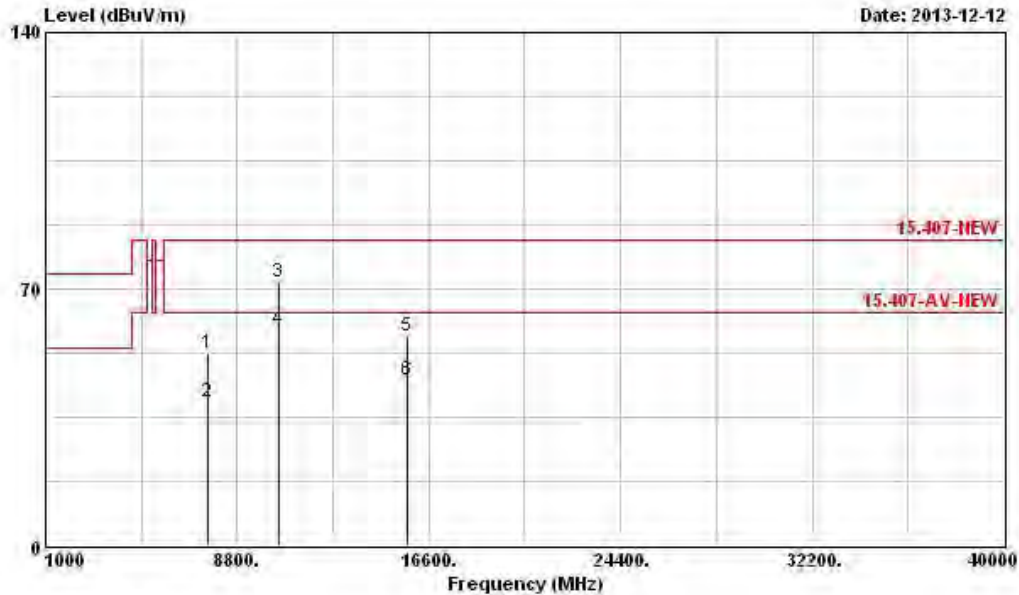
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5240
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			Rnt	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Remark	Pos	Pos
1	7620.000	52.65	-30.89	83.54	44.55	37.52	5.61	35.03	Peak	---	---
2	7620.000	38.99	-24.55	63.54	30.89	37.52	5.61	35.03	Average	---	---
3	10480.000	72.06	-11.48	83.54	62.28	38.41	6.30	34.93	Peak	---	---
4	10480.000	59.02	-4.52	63.54	49.24	38.41	6.30	34.93	Average	---	---
5	15720.000	57.29	-26.25	83.54	46.58	37.88	7.86	35.03	Peak	---	---
6	15720.000	45.18	-18.36	63.54	34.47	37.88	7.86	35.03	Average	---	---

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)

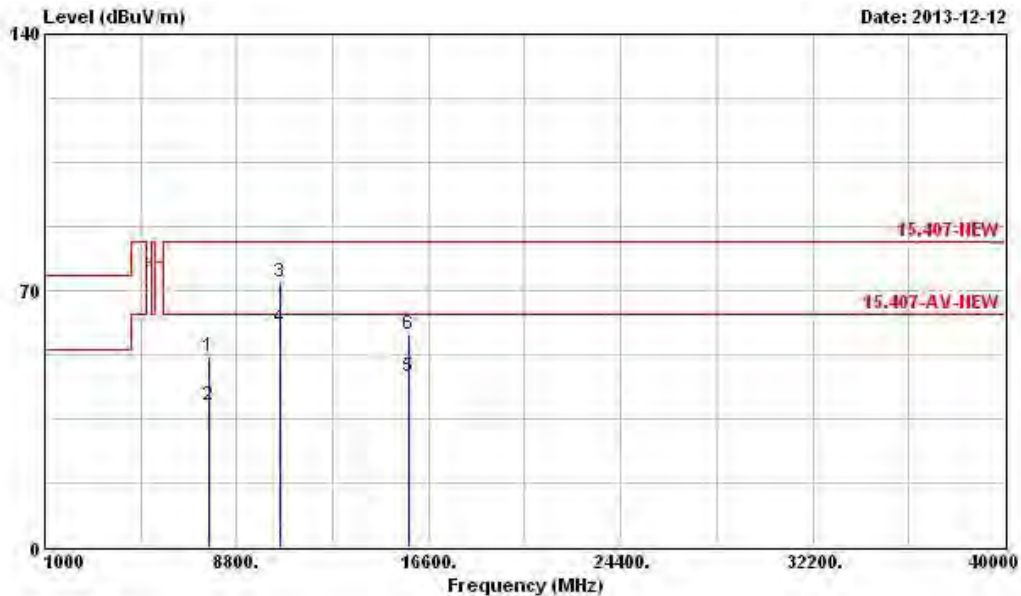
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5260
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7640.000	51.92	-31.62	83.54	43.81	37.53	5.61	35.03	Peak	---
2	7640.000	38.74	-24.80	63.54	30.63	37.53	5.61	35.03	Average	---
3	10540.000	72.17	-11.37	83.54	62.35	38.40	6.27	34.85	Peak	---
4	10540.000	59.76	-3.78	63.54	49.94	38.40	6.27	34.85	Average	---
5	15780.000	46.49	-17.05	63.54	36.00	37.82	7.79	35.12	Average	---
6	15780.000	58.00	-25.54	83.54	47.51	37.82	7.79	35.12	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)

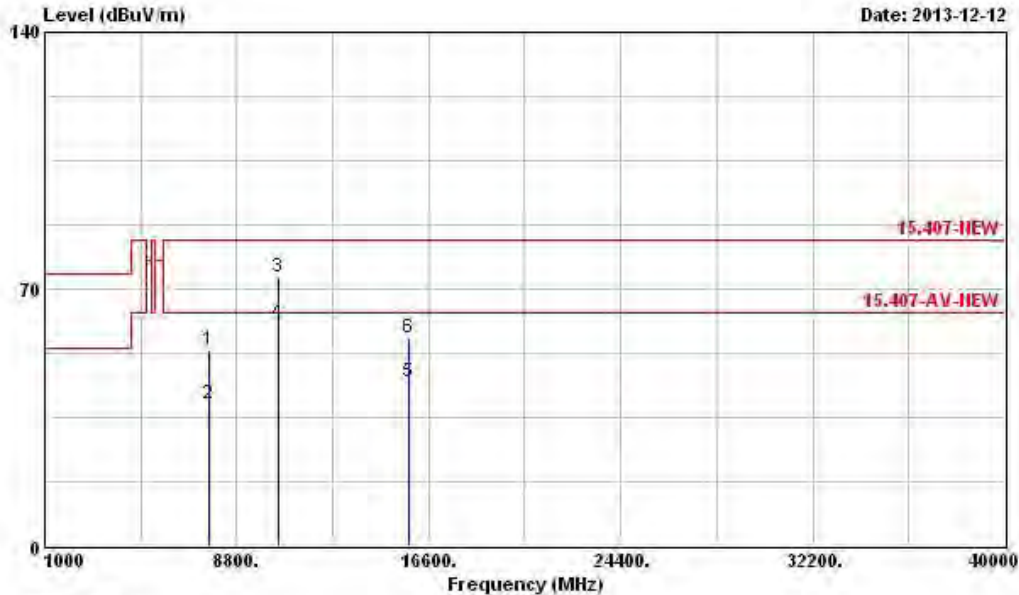
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5260
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7640.000	53.34	-30.20	83.54	45.23	37.53	5.61	35.03	Peak	---
2	7640.000	38.88	-24.66	63.54	30.77	37.53	5.61	35.03	Average	---
3	10520.000	73.40	-10.14	83.54	63.64	38.40	6.27	34.91	Peak	---
4	10520.000	60.82	-2.72	63.54	51.06	38.40	6.27	34.91	Average	---
5	15780.000	44.88	-18.66	63.54	34.39	37.82	7.79	35.12	Average	---
6	15780.000	56.83	-26.71	83.54	46.34	37.82	7.79	35.12	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)

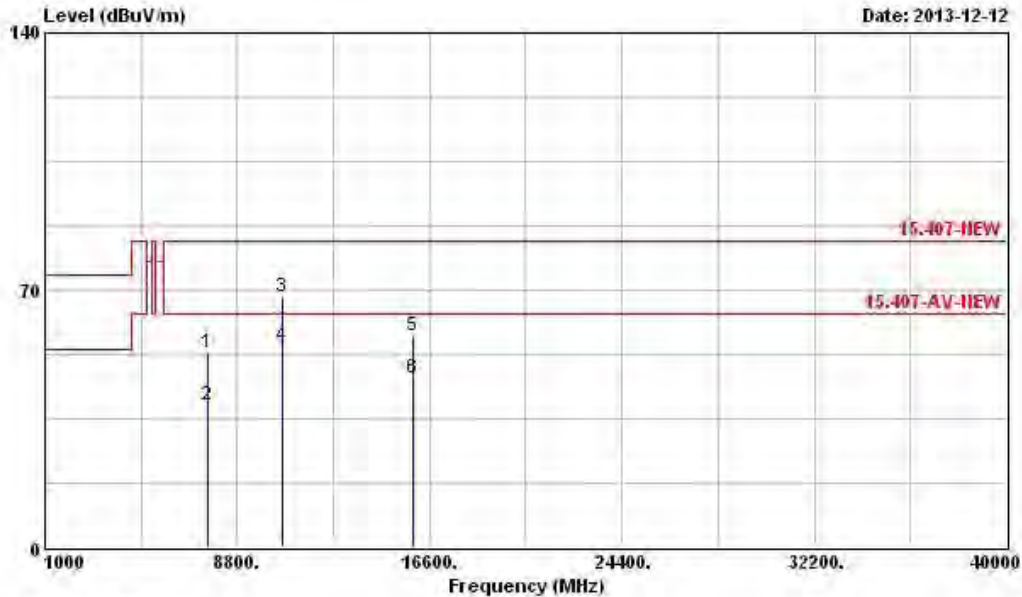
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7600.000	53.01	-30.53	83.54	44.87	37.52	5.64	35.02	Peak	---
2	7600.000	38.73	-24.81	63.54	30.59	37.52	5.64	35.02	Average	---
3	10600.000	68.36	-15.18	83.54	58.41	38.40	6.27	34.72	Peak	---
4	10600.000	54.95	-8.59	63.54	45.00	38.40	6.27	34.72	Average	---
5	15900.000	57.60	-25.94	83.54	47.44	37.70	7.69	35.23	Peak	---
6	15900.000	46.09	-17.45	63.54	35.93	37.70	7.69	35.23	Average	---

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)

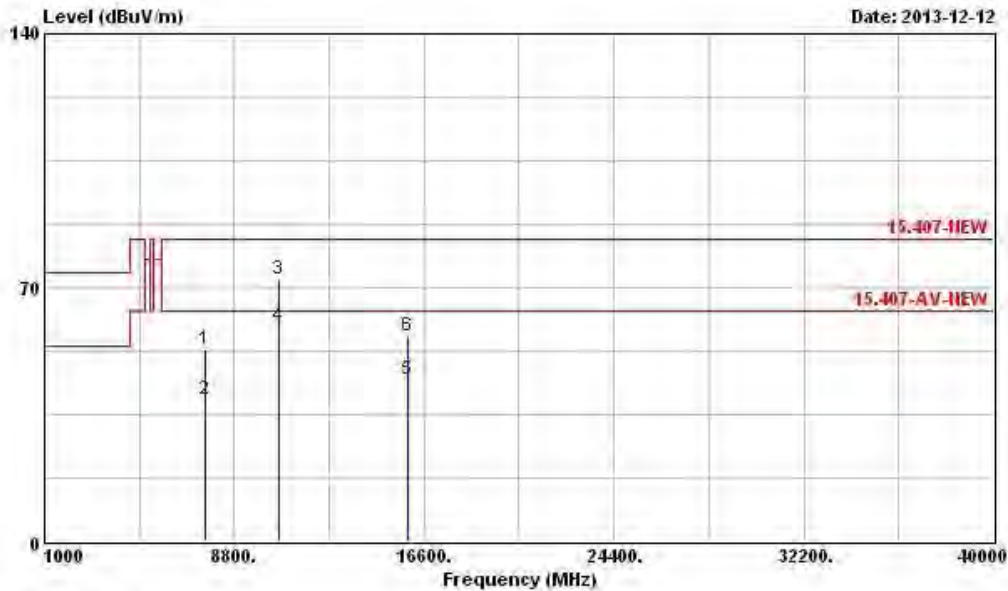
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5300
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.79	-30.75	83.54	44.69	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.02	-24.52	63.54	30.92	37.52	5.61	35.03	Average	---	---
3	10600.000	72.22	-11.32	83.54	62.27	38.40	6.27	34.72	Peak	---	---
4	10600.000	59.28	-4.26	63.54	49.33	38.40	6.27	34.72	Average	---	---
5	15900.000	44.61	-18.93	63.54	34.45	37.70	7.69	35.23	Average	---	---
6	15900.000	56.43	-27.11	83.54	46.27	37.70	7.69	35.23	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)

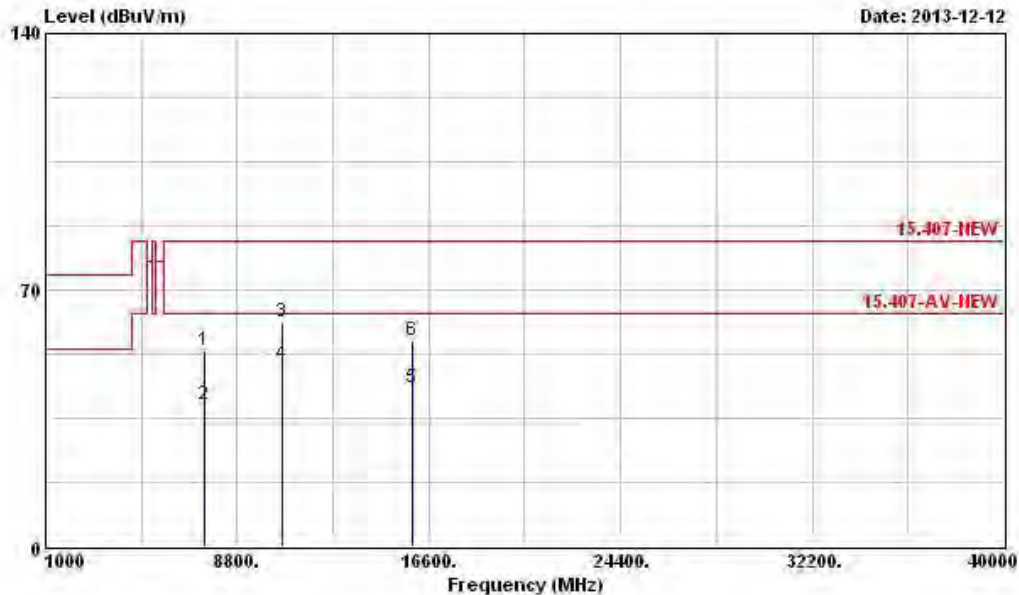
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5320
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7480.000	53.61	-29.93	83.54	45.48	37.46	5.66	34.99	Peak	---	---
2	7480.000	38.46	-25.08	63.54	30.33	37.46	5.66	34.99	Average	---	---
3	10640.000	61.34	-22.20	83.54	51.27	38.40	6.26	34.59	Peak	---	---
4	10640.000	49.87	-13.67	63.54	39.80	38.40	6.26	34.59	Average	---	---
5	15960.000	43.25	-20.29	63.54	33.32	37.63	7.62	35.32	Average	---	---
6	15960.000	56.38	-27.16	83.54	46.45	37.63	7.62	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)

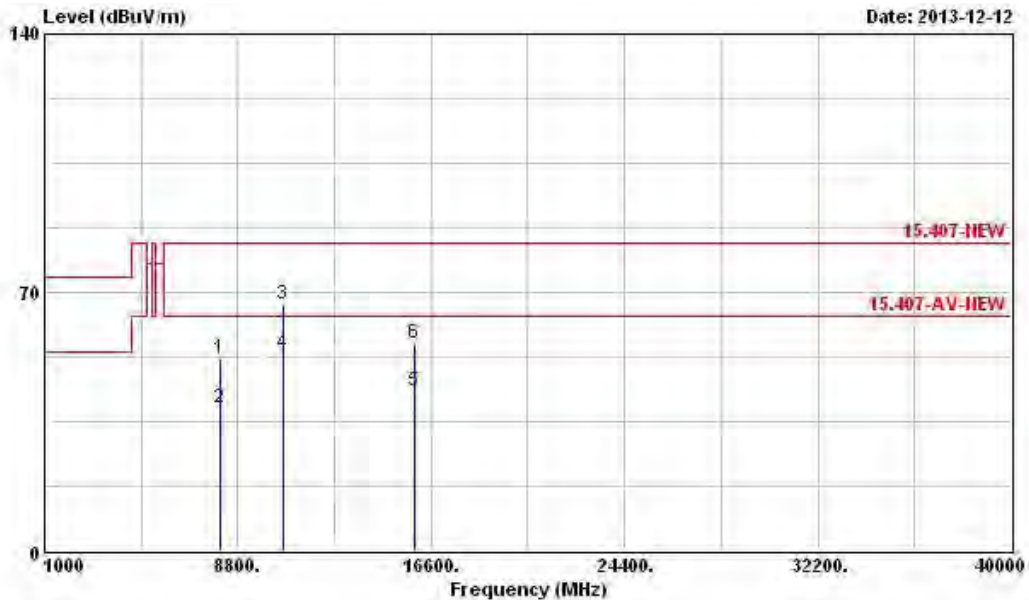
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5320
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8060.000	52.05	-31.49	83.54	44.27	37.60	5.33	35.15	Peak	---
2	8060.000	38.46	-25.08	63.54	30.68	37.60	5.33	35.15	Average	---
3	10640.000	66.55	-16.99	83.54	56.48	38.40	6.26	34.59	Peak	---
4	10640.000	53.64	-9.90	63.54	43.57	38.40	6.26	34.59	Average	---
5	15960.000	43.07	-20.47	63.54	33.14	37.63	7.62	35.32	Average	---
6	15960.000	56.22	-27.32	83.54	46.29	37.63	7.62	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)

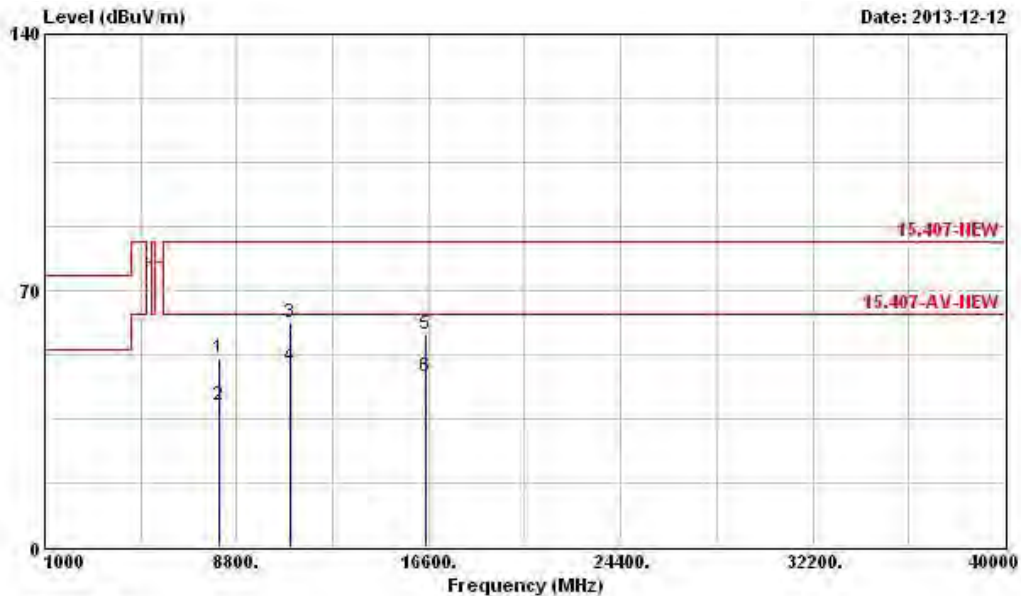
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5500
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8060.000	51.77	-31.77	83.54	43.99	37.60	5.33	35.15	Peak	---	---
2	8060.000	38.52	-25.02	63.54	30.74	37.60	5.33	35.15	Average	---	---
3	11000.000	61.48	-22.06	83.54	50.56	38.40	6.23	33.71	Peak	---	---
4	11000.000	49.37	-14.17	63.54	38.45	38.40	6.23	33.71	Average	---	---
5	16500.000	58.01	-25.53	83.54	45.05	39.10	8.70	34.84	Peak	---	---
6	16500.000	46.30	-17.24	63.54	33.34	39.10	8.70	34.84	Average	---	---

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)

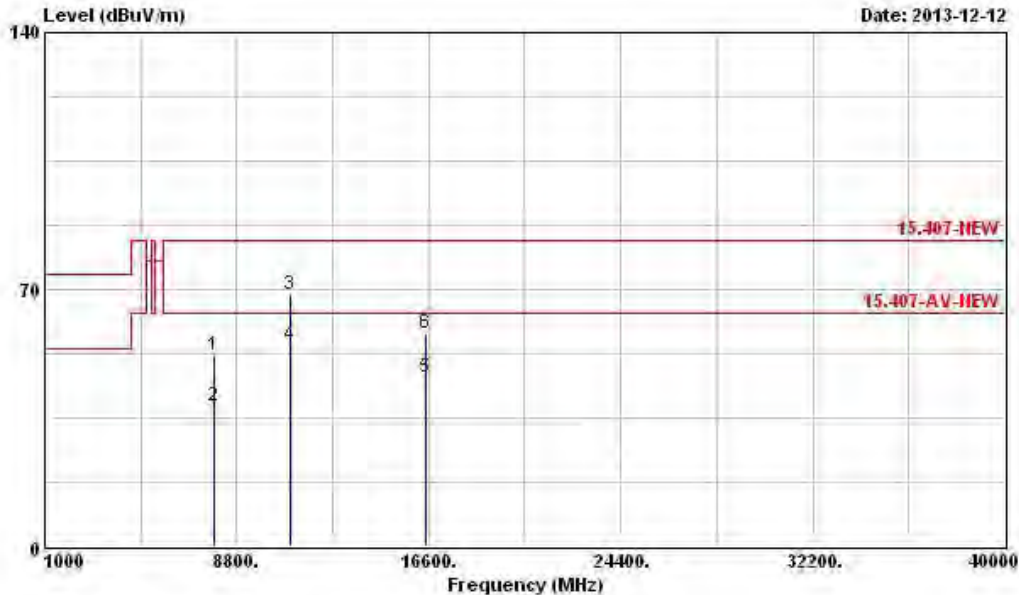
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5500
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7900.000	52.23	-31.31	83.54	44.40	37.58	5.38	35.13	Peak	---	---
2	7900.000	38.10	-25.44	63.54	30.27	37.58	5.38	35.13	Average	---	---
3	11000.000	68.66	-14.88	83.54	57.74	38.40	6.23	33.71	Peak	---	---
4	11000.000	54.58	-8.96	63.54	43.66	38.40	6.23	33.71	Average	---	---
5	16500.000	46.01	-17.53	63.54	33.05	39.10	8.70	34.84	Average	---	---
6	16500.000	58.04	-25.50	83.54	45.08	39.10	8.70	34.84	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)

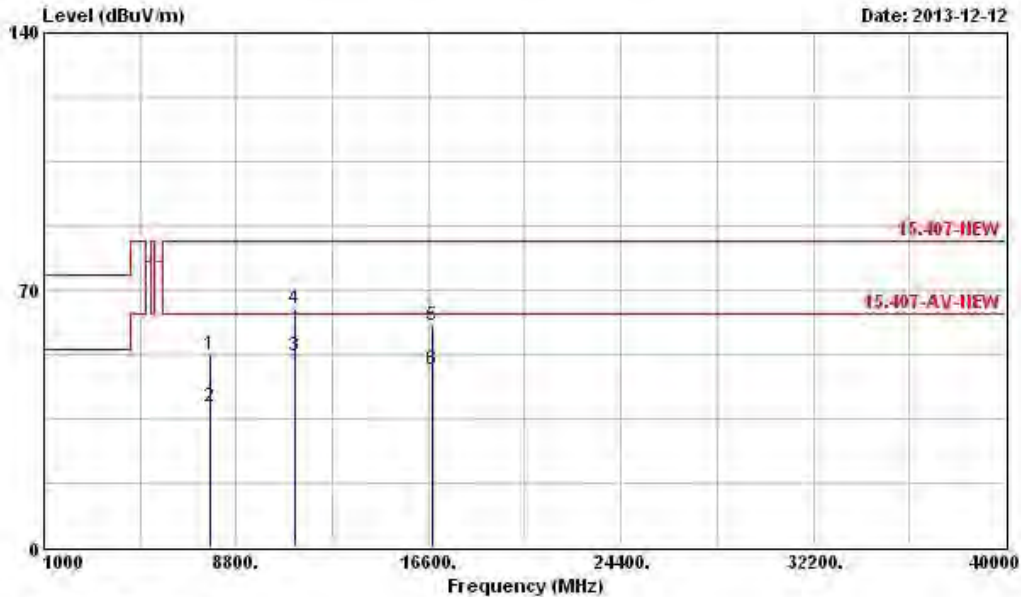
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5580
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7740.000	52.52	-31.02	83.54	44.53	37.55	5.51	35.07	Peak	---	---
2	7740.000	38.33	-25.21	63.54	30.34	37.55	5.51	35.07	Average	---	---
3	11160.000	52.18	-11.36	63.54	41.17	38.67	6.28	33.94	Average	---	---
4	11160.000	64.80	-18.74	83.54	53.79	38.67	6.28	33.94	Peak	---	---
5	16740.000	60.55	-22.99	83.54	45.62	40.50	8.86	34.43	Peak	---	---
6	16740.000	48.18	-15.36	63.54	33.25	40.50	8.86	34.43	Average	---	---

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)

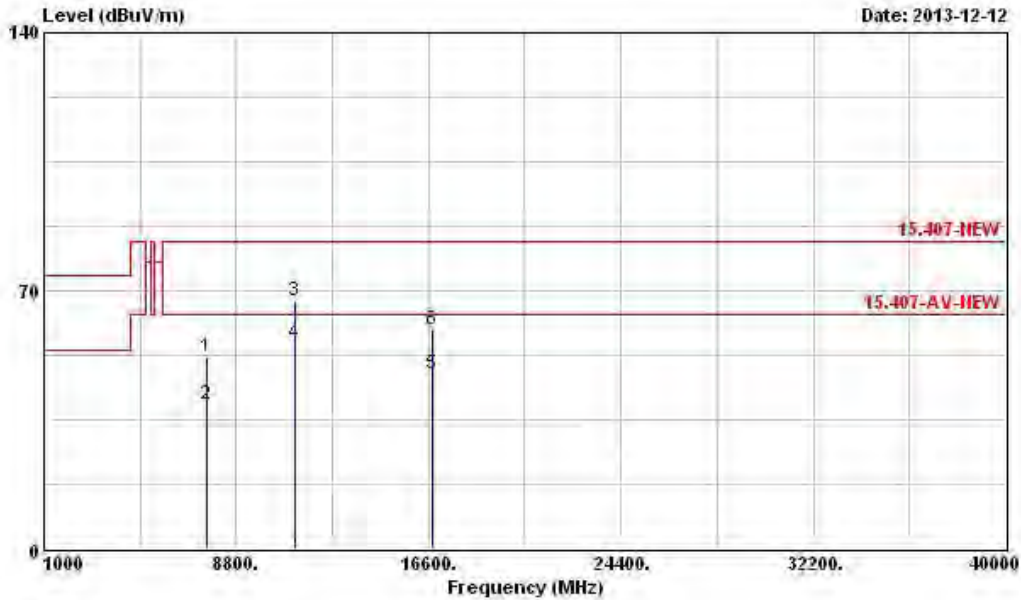
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5580
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.11	-31.43	83.54	44.01	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.08	-24.46	63.54	30.98	37.52	5.61	35.03	Average	---	---
3	11160.000	67.34	-16.20	83.54	56.33	38.67	6.28	33.94	Peak	---	---
4	11160.000	55.63	-7.91	63.54	44.62	38.67	6.28	33.94	Average	---	---
5	16740.000	47.38	-16.16	63.54	32.45	40.50	8.86	34.43	Average	---	---
6	16740.000	59.28	-24.26	83.54	44.35	40.50	8.86	34.43	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)

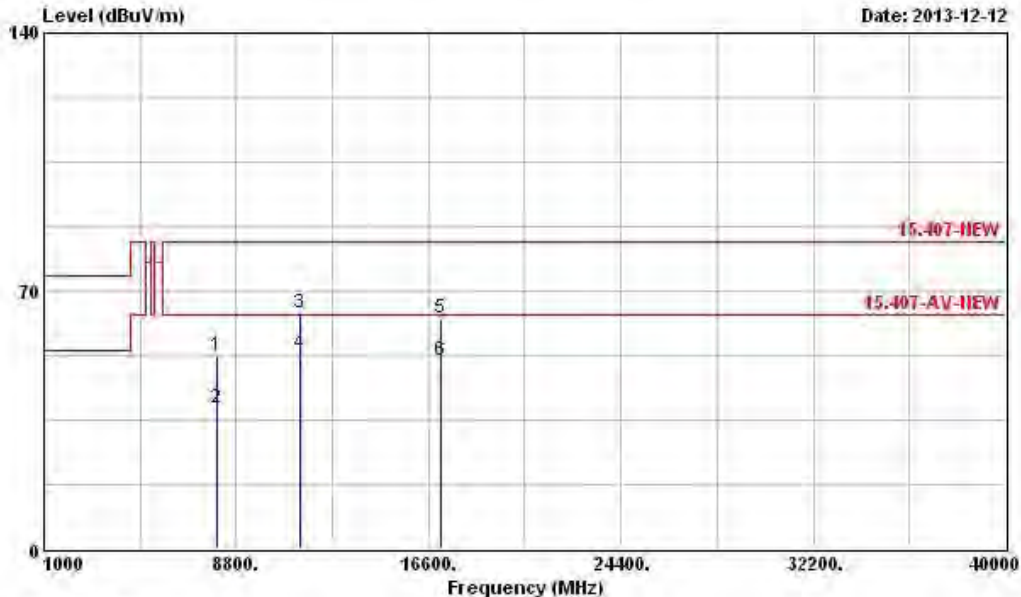
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5700
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
									cm	deg
1	8028.000	52.40	-31.14	83.54	44.64	37.60	5.32	35.16	Peak	---
2	8028.000	38.12	-25.42	63.54	30.36	37.60	5.32	35.16	Average	---
3	11400.000	64.05	-19.49	83.54	53.00	39.04	6.34	34.33	Peak	---
4	11400.000	52.74	-10.80	63.54	41.69	39.04	6.34	34.33	Average	---
5	17100.000	62.43	-21.11	83.54	44.65	42.72	8.98	33.92	Peak	---
6	17100.000	51.25	-12.29	63.54	33.47	42.72	8.98	33.92	Average	---

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)

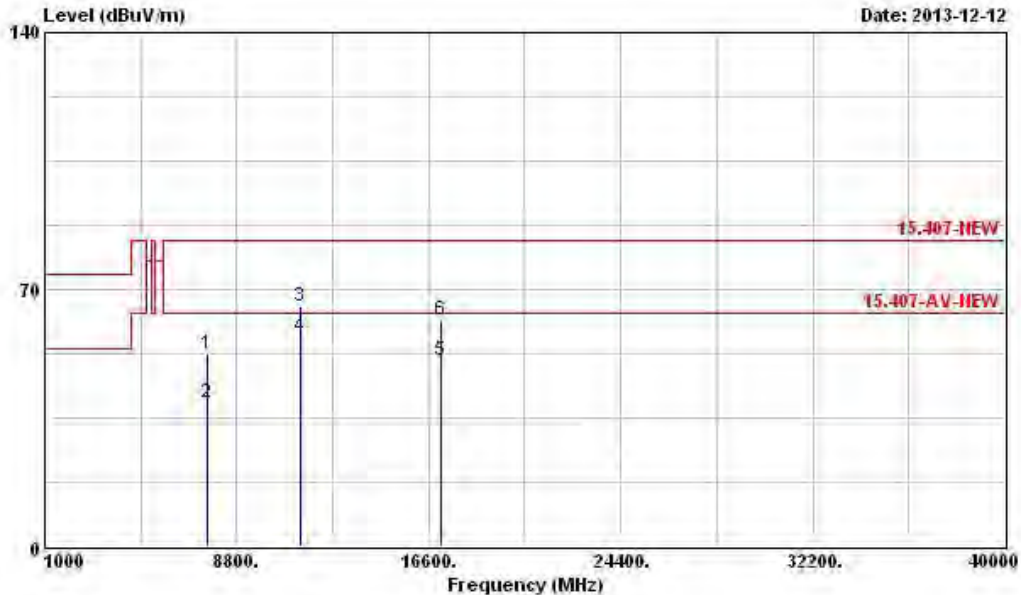
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT20	Test Freq. (MHz)	5700
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.39	-31.15	83.54	44.29	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.04	-24.50	63.54	30.94	37.52	5.61	35.03	Average	---	---
3	11400.000	65.23	-18.31	83.54	54.18	39.04	6.34	34.33	Peak	---	---
4	11400.000	57.01	-6.53	63.54	45.96	39.04	6.34	34.33	Average	---	---
5	17100.000	50.48	-13.06	63.54	32.70	42.72	8.98	33.92	Average	---	---
6	17100.000	61.55	-21.99	83.54	43.77	42.72	8.98	33.92	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

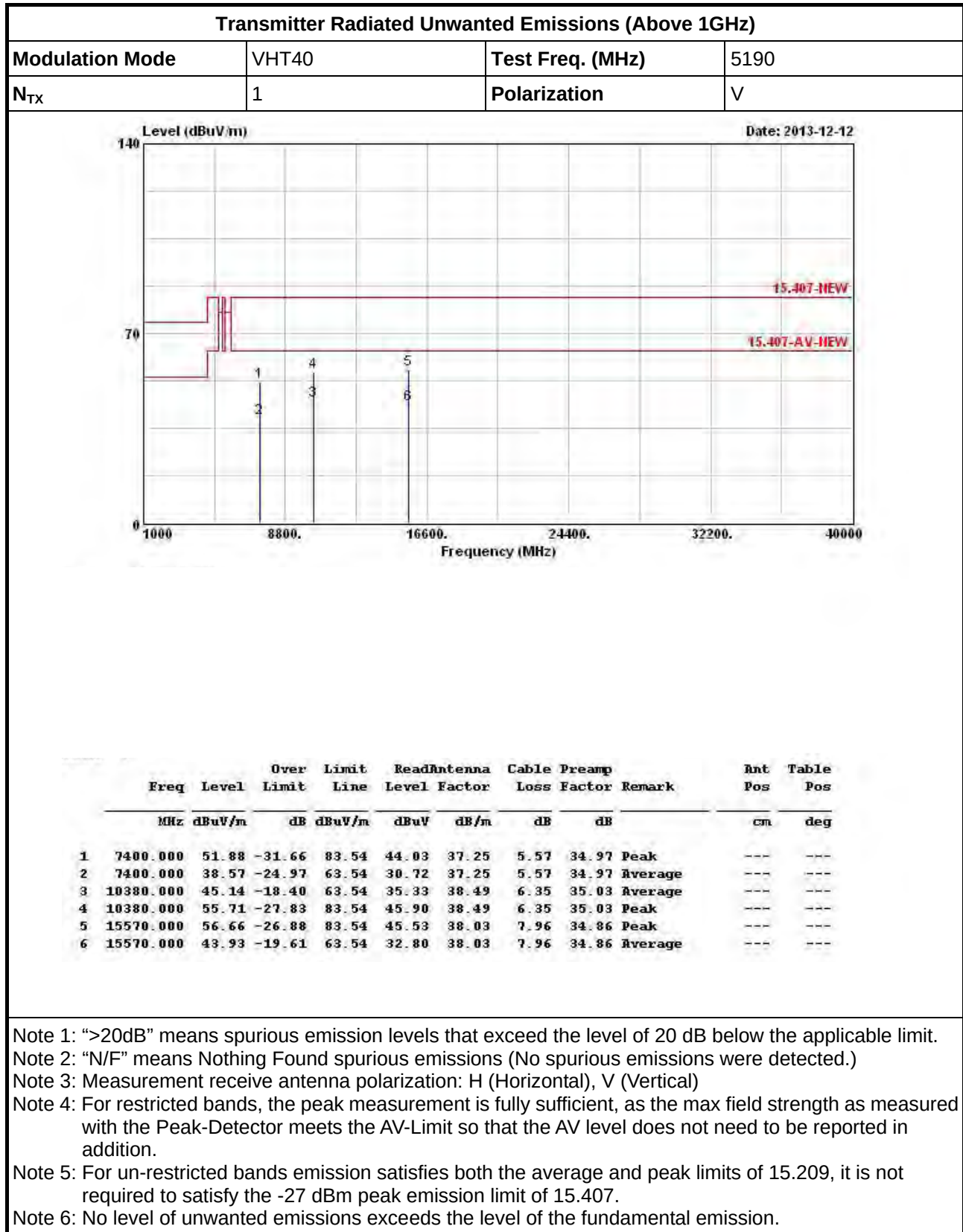
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

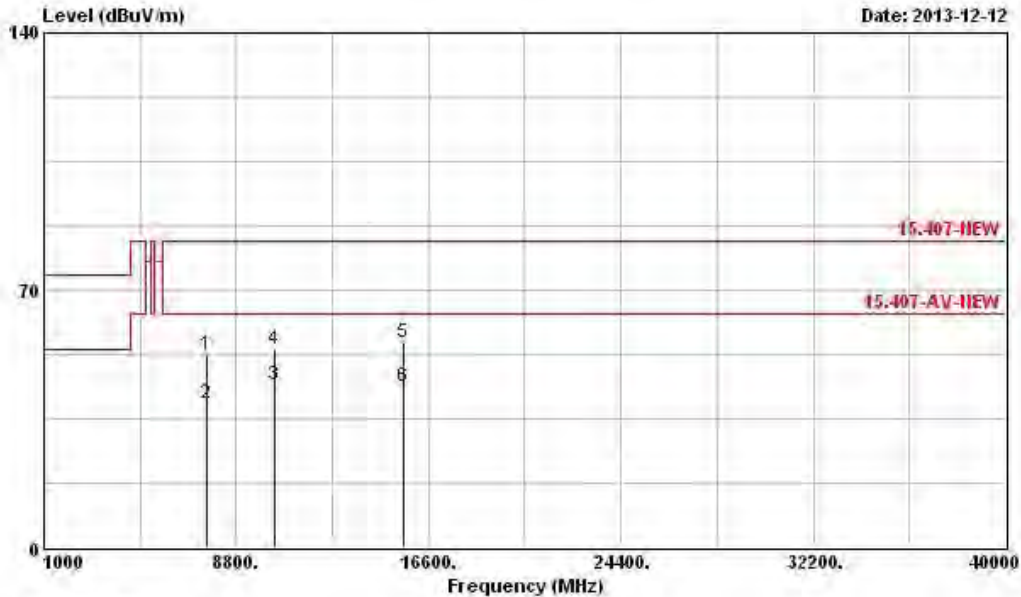
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5190
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.48	-31.06	83.54	44.38	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.19	-24.35	63.54	31.09	37.52	5.61	35.03	Average	---	---
3	10380.000	44.14	-19.40	63.54	34.33	38.49	6.35	35.03	Average	---	---
4	10380.000	53.99	-29.55	83.54	44.18	38.49	6.35	35.03	Peak	---	---
5	15570.000	55.78	-27.76	83.54	44.65	38.03	7.96	34.86	Peak	---	---
6	15570.000	43.83	-19.71	63.54	32.70	38.03	7.96	34.86	Average	---	---

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)

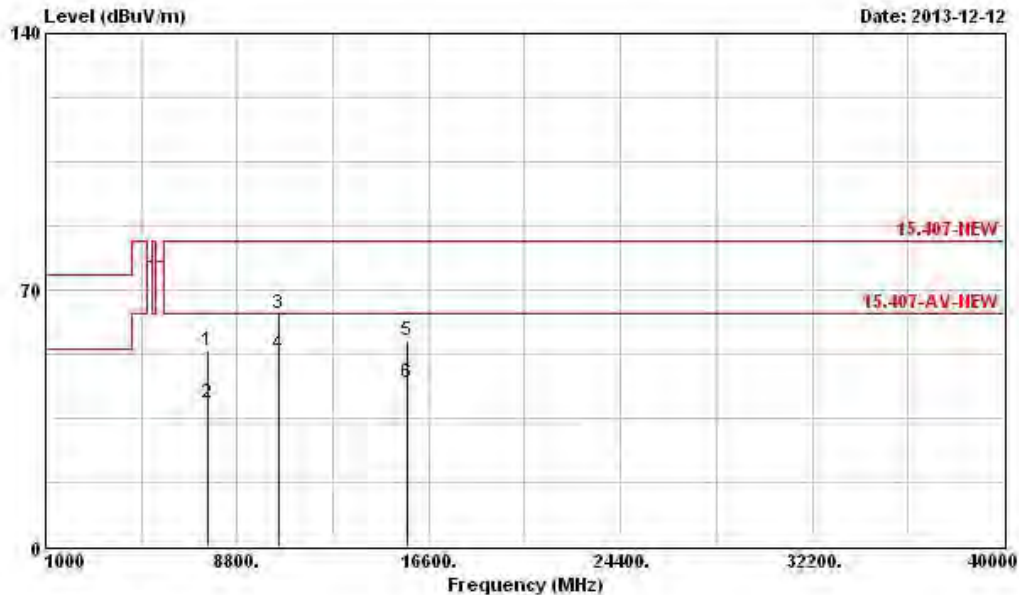
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	53.19	-30.35	83.54	45.09	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.12	-24.42	63.54	31.02	37.52	5.61	35.03	Average	---	---
3	10460.000	63.40	-20.14	83.54	53.62	38.44	6.30	34.96	Peak	---	---
4	10460.000	52.43	-11.11	63.54	42.65	38.44	6.30	34.96	Average	---	---
5	15690.000	55.97	-27.57	83.54	45.20	37.91	7.86	35.00	Peak	---	---
6	15690.000	44.73	-18.81	63.54	33.96	37.91	7.86	35.00	Average	---	---

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)

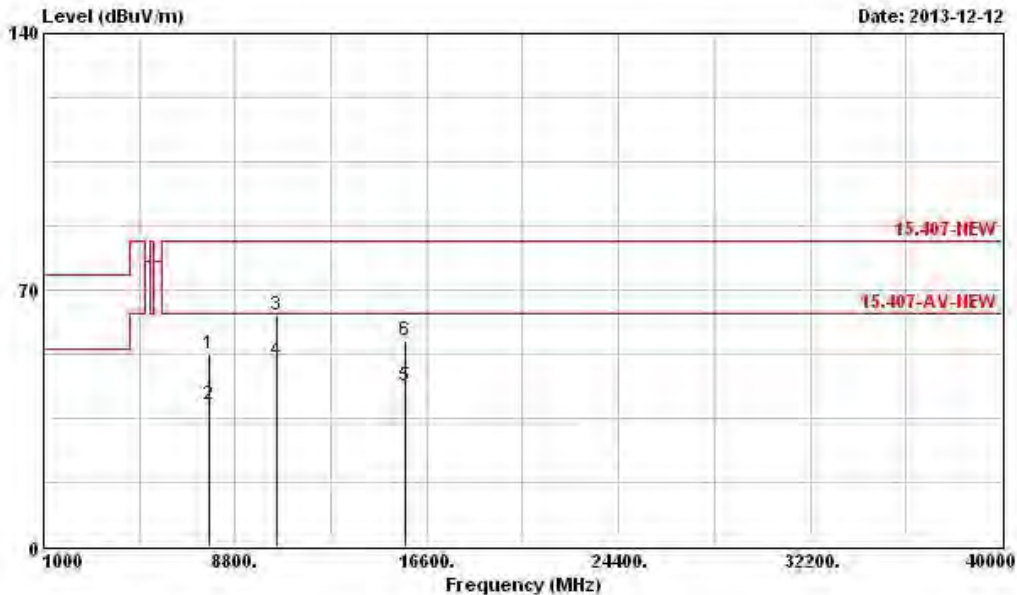
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5230
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7720.000	52.47	-31.07	83.54	44.46	37.54	5.54	35.07	Peak	---	---
2	7720.000	38.60	-24.94	63.54	30.59	37.54	5.54	35.07	Average	---	---
3	10460.000	62.91	-20.63	83.54	53.13	38.44	6.30	34.96	Peak	---	---
4	10460.000	50.44	-13.10	63.54	40.66	38.44	6.30	34.96	Average	---	---
5	15690.000	43.94	-19.60	63.54	33.17	37.91	7.86	35.00	Average	---	---
6	15690.000	56.00	-27.54	83.54	45.23	37.91	7.86	35.00	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)

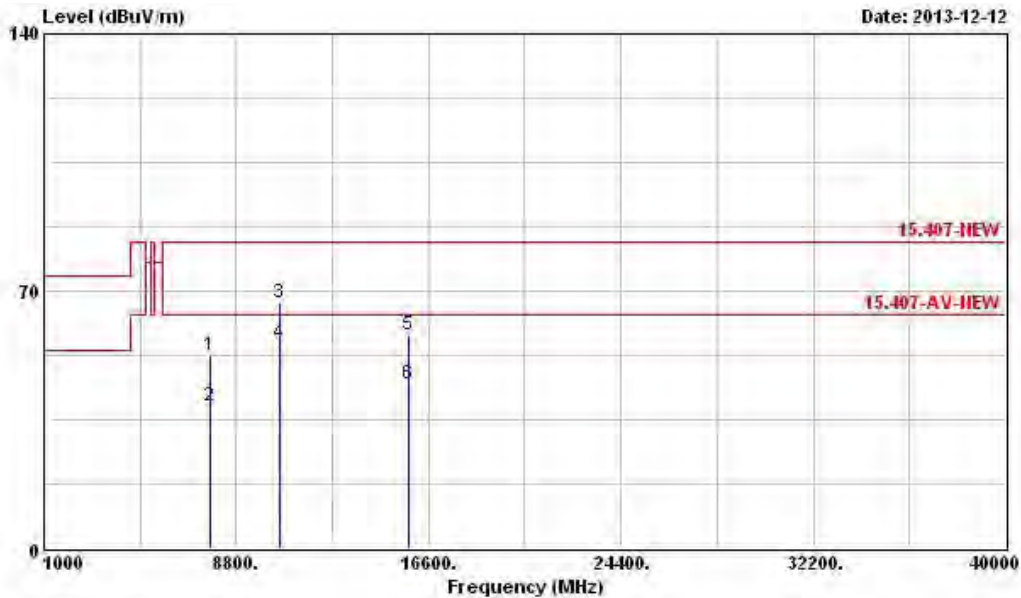
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5270
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7740.000	52.29	-31.25	83.54	44.30	37.55	5.51	35.07	Peak	---	---
2	7740.000	38.51	-25.03	63.54	30.52	37.55	5.51	35.07	Average	---	---
3	10540.000	66.77	-16.77	83.54	56.95	38.40	6.27	34.85	Peak	---	---
4	10540.000	55.53	-8.01	63.54	45.71	38.40	6.27	34.85	Average	---	---
5	15810.000	57.87	-25.67	83.54	47.47	37.79	7.76	35.15	Peak	---	---
6	15810.000	44.49	-19.05	63.54	34.09	37.79	7.76	35.15	Average	---	---

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)

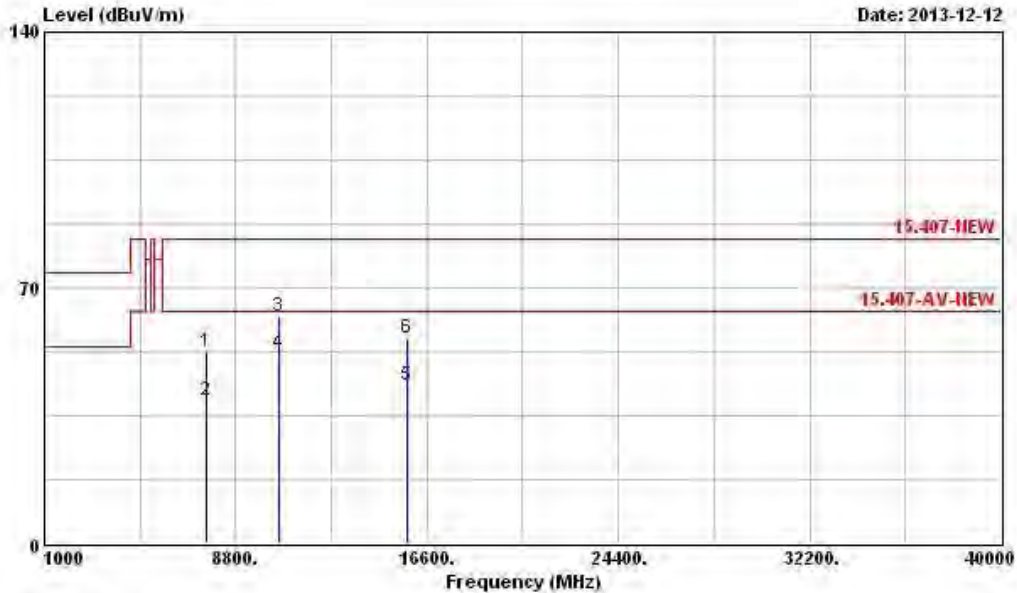
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5270
N_{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			Rnt	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.44	-31.10	83.54	44.34	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.05	-24.49	63.54	30.95	37.52	5.61	35.03	Average	---	---
3	10540.000	62.23	-21.31	83.54	52.41	38.40	6.27	34.85	Peak	---	---
4	10540.000	52.08	-11.46	63.54	42.26	38.40	6.27	34.85	Average	---	---
5	15810.000	43.48	-20.06	63.54	33.08	37.79	7.76	35.15	Average	---	---
6	15810.000	56.35	-27.19	83.54	45.95	37.79	7.76	35.15	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)

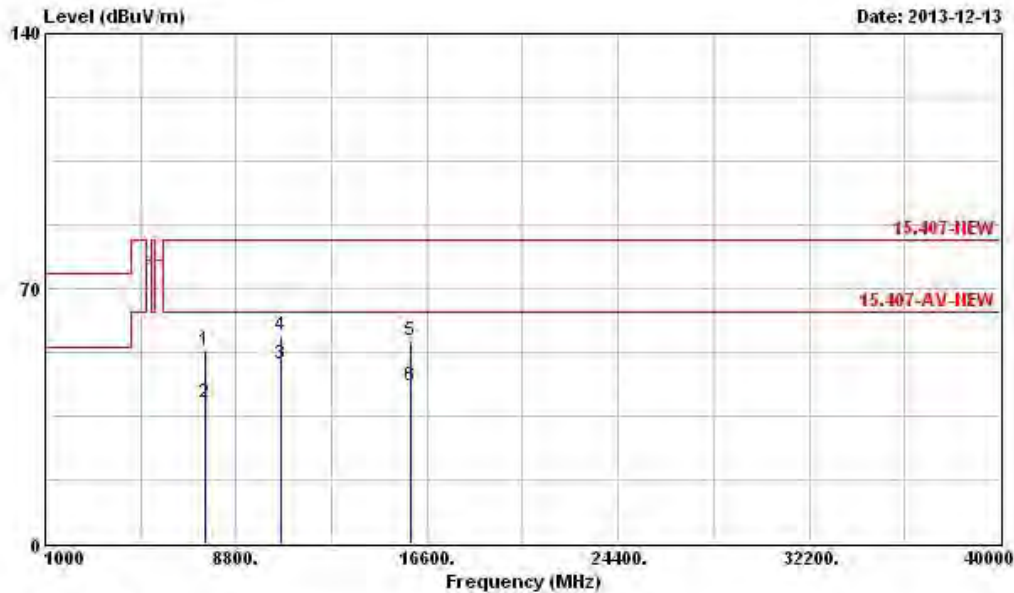
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5310
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp				Ant	Table
	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	Remark			Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7540.000	52.79	-30.75	83.54	44.60	37.51	5.68	35.00	Peak	---	---
2	7540.000	38.65	-24.89	63.54	30.46	37.51	5.68	35.00	Average	---	---
3	10620.000	49.41	-14.13	63.54	39.41	38.40	6.26	34.66	Average	---	---
4	10620.000	56.94	-26.60	83.54	46.94	38.40	6.26	34.66	Peak	---	---
5	15930.000	55.95	-27.59	83.54	45.88	37.67	7.66	35.26	Peak	---	---
6	15930.000	43.49	-20.05	63.54	33.42	37.67	7.66	35.26	Average	---	---

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)

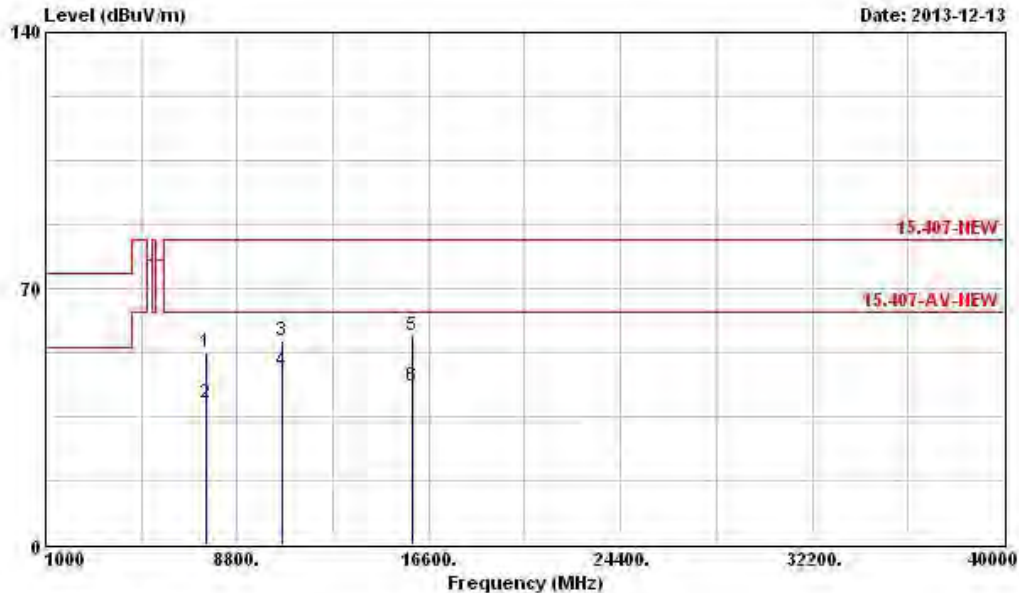
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5310
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7540.000	52.30	-31.24	83.54	44.11	37.51	5.68	35.00	Peak	---
2	7540.000	38.67	-24.87	63.54	30.48	37.51	5.68	35.00	Average	---
3	10620.000	55.51	-28.03	83.54	45.51	38.40	6.26	34.66	Peak	---
4	10620.000	47.51	-16.03	63.54	37.51	38.40	6.26	34.66	Average	---
5	15930.000	57.20	-26.34	83.54	47.13	37.67	7.66	35.26	Peak	---
6	15930.000	43.51	-20.03	63.54	33.44	37.67	7.66	35.26	Average	---

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)

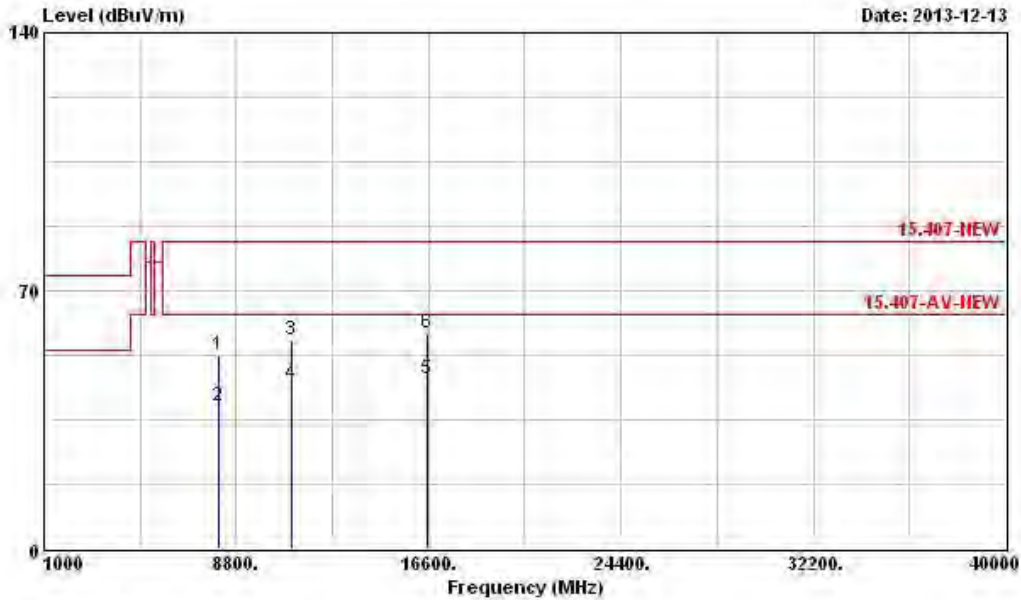
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5510
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8080.000	52.52	-31.02	83.54	44.72	37.60	5.35	35.15	Peak	---	---
2	8080.000	38.46	-25.08	63.54	30.66	37.60	5.35	35.15	Average	---	---
3	11020.000	56.64	-26.90	83.54	45.72	38.43	6.24	33.75	Peak	---	---
4	11020.000	44.46	-19.08	63.54	33.54	38.43	6.24	33.75	Average	---	---
5	16530.000	45.94	-17.60	63.54	32.70	39.30	8.73	34.79	Average	---	---
6	16530.000	58.71	-24.83	83.54	45.47	39.30	8.73	34.79	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)

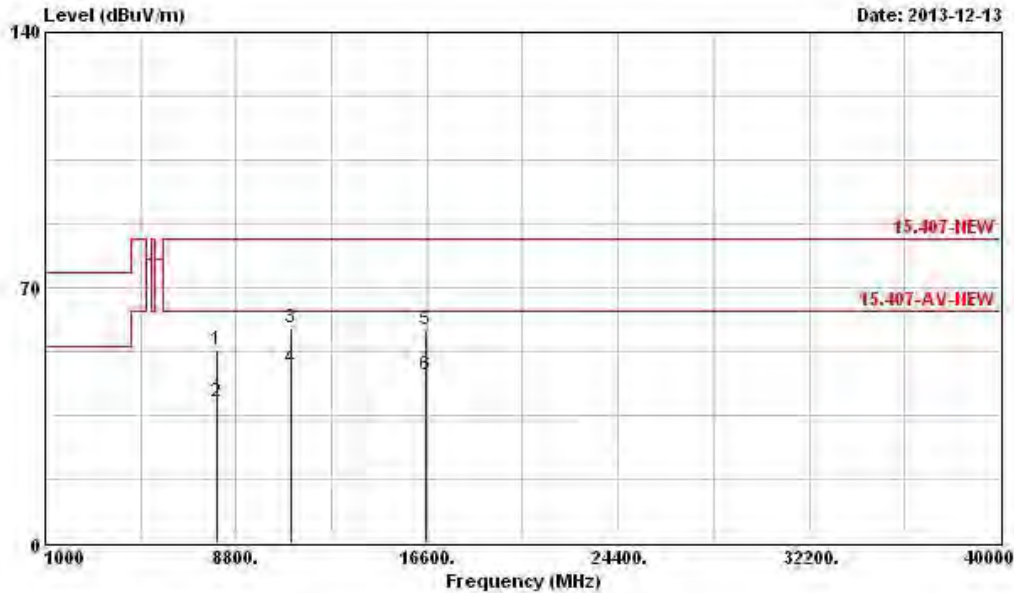
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5510
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8040.000	52.74	-30.80	83.54	44.97	37.60	5.33	35.16	Peak	---
2	8040.000	38.50	-25.04	63.54	30.73	37.60	5.33	35.16	Average	---
3	11020.000	58.73	-24.81	83.54	47.81	38.43	6.24	33.75	Peak	---
4	11020.000	48.05	-15.49	63.54	37.13	38.43	6.24	33.75	Average	---
5	16530.000	58.61	-24.93	83.54	45.37	39.30	8.73	34.79	Peak	---
6	16530.000	46.05	-17.49	63.54	32.81	39.30	8.73	34.79	Average	---

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)

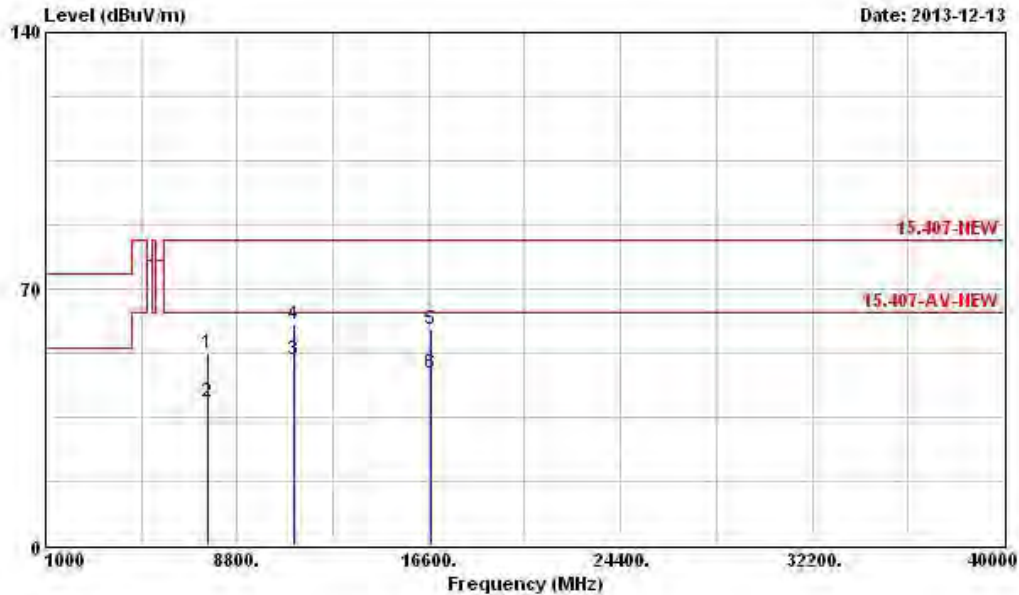
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5550
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7620.000	52.70	-30.84	83.54	44.60	37.52	5.61	35.03	Peak	---	---
2	7620.000	39.00	-24.54	63.54	30.90	37.52	5.61	35.03	Average	---	---
3	11100.000	50.46	-13.08	63.54	39.50	38.56	6.26	33.86	Average	---	---
4	11100.000	60.39	-23.15	83.54	49.43	38.56	6.26	33.86	Peak	---	---
5	16650.000	58.87	-24.67	83.54	44.64	40.00	8.80	34.57	Peak	---	---
6	16650.000	47.18	-16.36	63.54	32.95	40.00	8.80	34.57	Average	---	---

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)

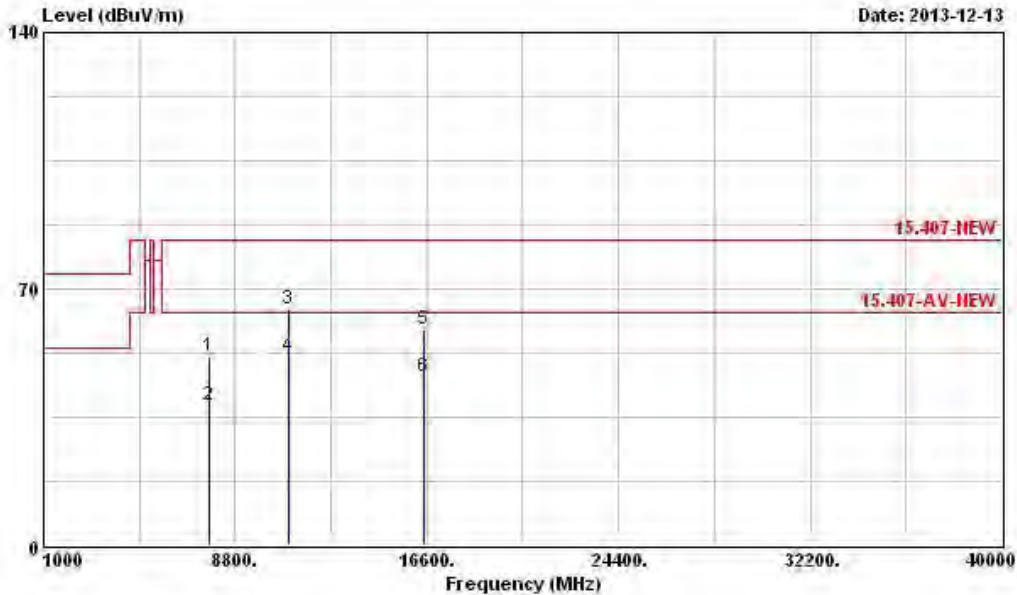
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5550
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7760.000	51.73	-31.81	83.54	43.75	37.55	5.51	35.08	Peak	---
2	7760.000	38.38	-25.16	63.54	30.40	37.55	5.51	35.08	Average	---
3	11000.000	64.52	-19.02	83.54	53.60	38.40	6.23	33.71	Peak	---
4	11000.000	51.76	-11.78	63.54	40.84	38.40	6.23	33.71	Average	---
5	16500.000	58.81	-24.73	83.54	45.85	39.10	8.70	34.84	Peak	---
6	16500.000	45.92	-17.62	63.54	32.96	39.10	8.70	34.84	Average	---

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)

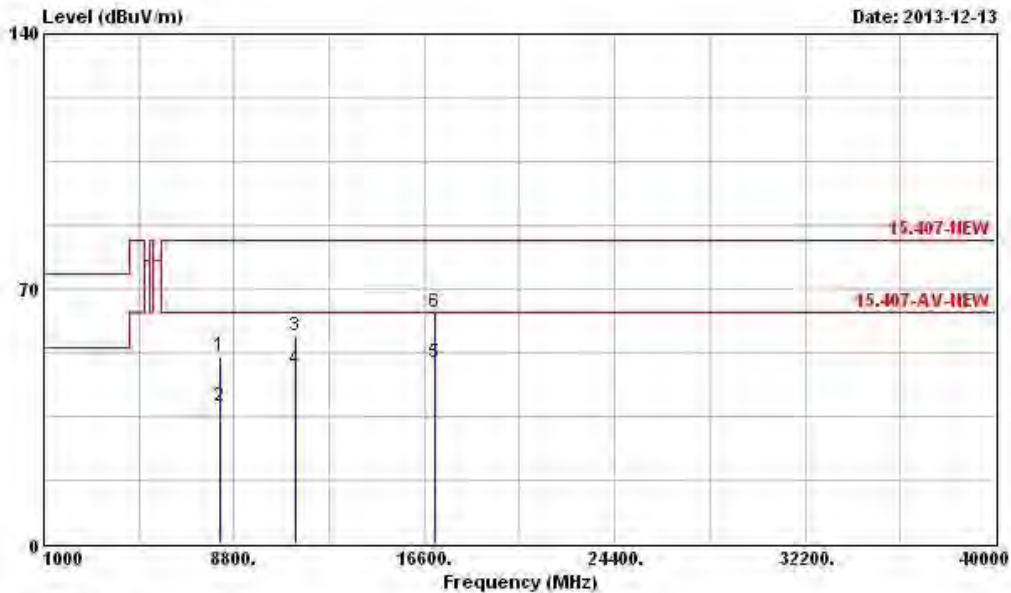
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5670
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8248.000	51.71	-31.83	83.54	43.85	37.60	5.39	35.13	Peak	---	---
2	8248.000	37.95	-25.59	63.54	30.09	37.60	5.39	35.13	Average	---	---
3	11340.000	57.00	-26.54	83.54	45.96	38.93	6.32	34.21	Peak	---	---
4	11340.000	48.03	-15.51	63.54	36.99	38.93	6.32	34.21	Average	---	---
5	17010.000	49.78	-13.76	63.54	32.63	42.12	8.99	33.96	Average	---	---
6	17010.000	63.36	-20.18	83.54	46.21	42.12	8.99	33.96	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)

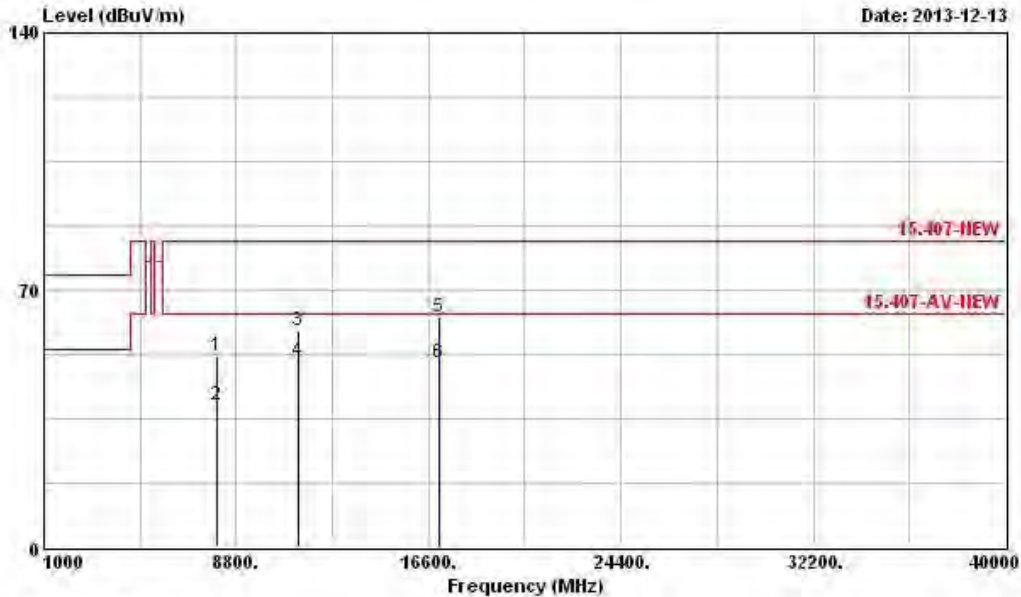
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT40	Test Freq. (MHz)	5670
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp				
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Remark	Ant Pos	Table Pos
1	8050.000	52.04	-31.50	83.54	44.27	37.60	5.33	35.16	Peak	---	---
2	8050.000	38.51	-25.03	63.54	30.74	37.60	5.33	35.16	Average	---	---
3	11340.000	59.03	-24.51	83.54	47.99	38.93	6.32	34.21	Peak	---	---
4	11340.000	50.82	-12.72	63.54	39.78	38.93	6.32	34.21	Average	---	---
5	17010.000	62.42	-21.12	83.54	45.27	42.12	8.99	33.96	Peak	---	---
6	17010.000	50.08	-13.46	63.54	32.93	42.12	8.99	33.96	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

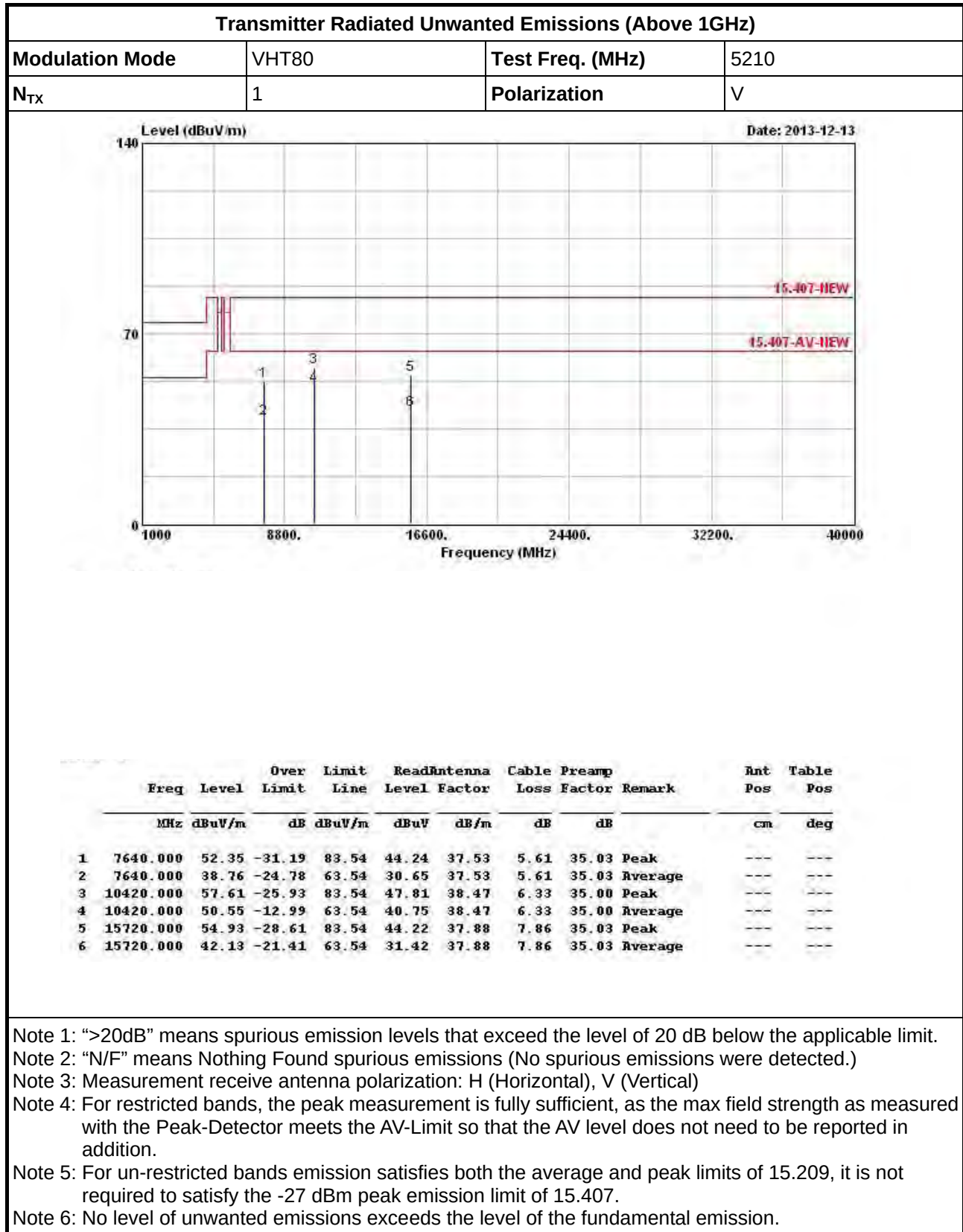
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

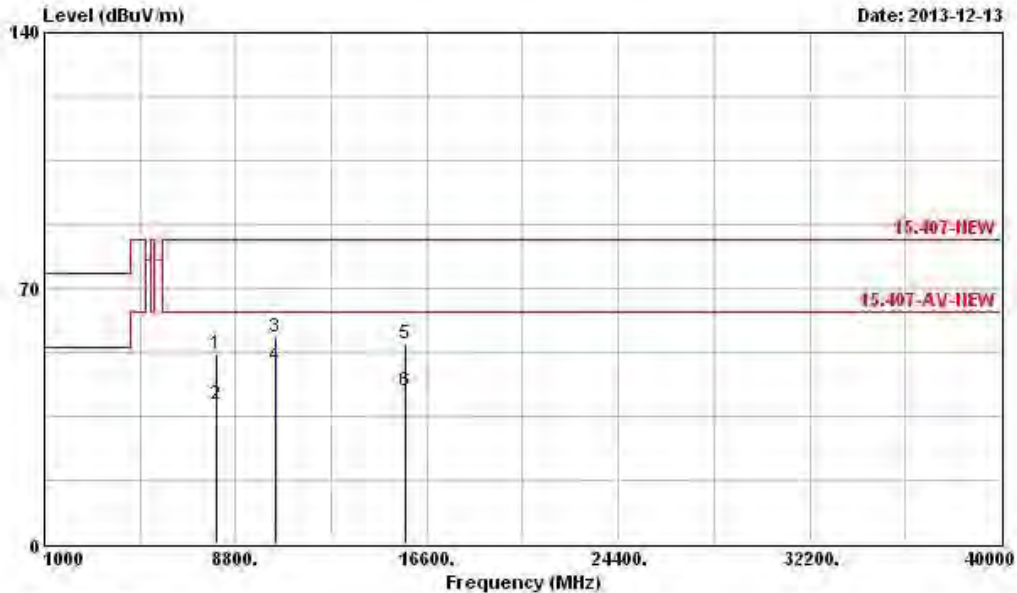
Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5210
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8040.000	52.23	-31.31	83.54	44.46	37.60	5.33	35.16	Peak	---
2	8040.000	38.29	-25.25	63.54	30.52	37.60	5.33	35.16	Average	---
3	10420.000	56.46	-27.08	83.54	46.66	38.47	6.33	35.00	Peak	---
4	10420.000	48.91	-14.63	63.54	39.11	38.47	6.33	35.00	Average	---
5	15720.000	54.94	-28.60	83.54	44.23	37.88	7.86	35.03	Peak	---
6	15720.000	42.13	-21.41	63.54	31.42	37.88	7.86	35.03	Average	---

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)

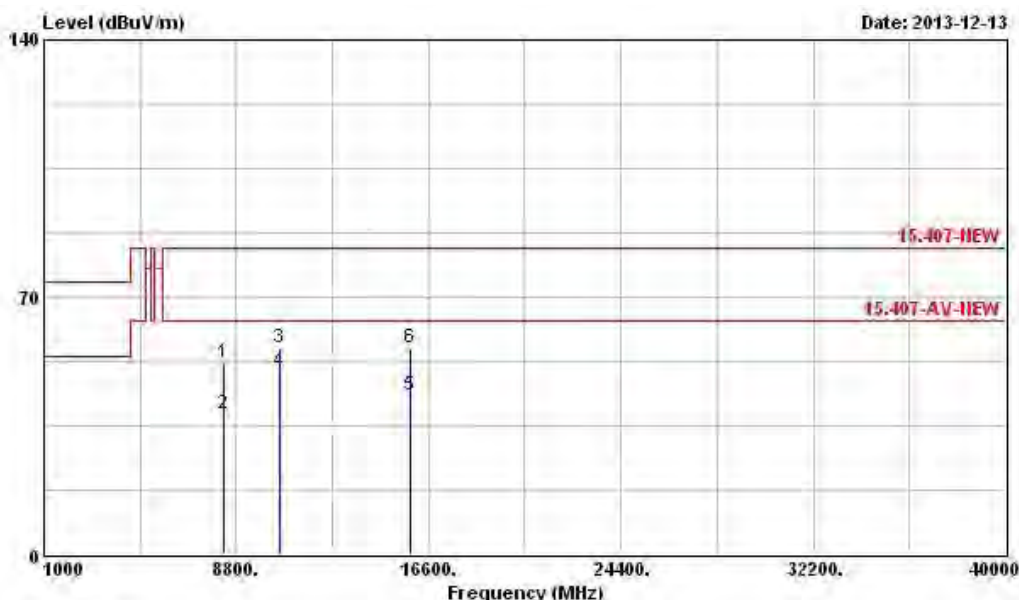
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5290
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8260.000	51.97	-31.57	83.54	44.10	37.60	5.39	35.12	Peak	---
2	8260.000	38.02	-25.52	63.54	30.15	37.60	5.39	35.12	Average	---
3	10580.000	56.14	-27.40	83.54	46.19	38.40	6.27	34.72	Peak	---
4	10580.000	49.89	-13.65	63.54	39.94	38.40	6.27	34.72	Average	---
5	15870.000	43.49	-20.05	63.54	33.26	37.72	7.72	35.21	Average	---
6	15870.000	56.37	-27.17	83.54	46.14	37.72	7.72	35.21	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)

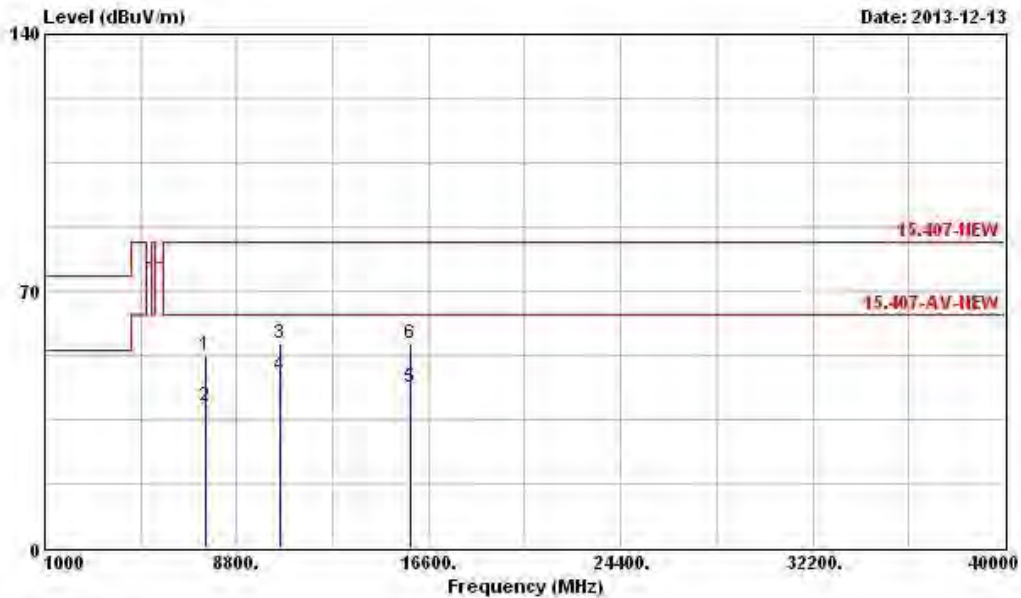
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5290
N_{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7540.000	52.49	-31.05	83.54	44.30	37.51	5.68	35.00	Peak	---	---
2	7540.000	38.52	-25.02	63.54	30.33	37.51	5.68	35.00	Average	---	---
3	10580.000	55.50	-28.04	83.54	45.55	38.40	6.27	34.72	Peak	---	---
4	10580.000	46.80	-16.74	63.54	36.85	38.40	6.27	34.72	Average	---	---
5	15870.000	43.58	-19.96	63.54	33.35	37.72	7.72	35.21	Average	---	---
6	15870.000	55.82	-27.72	83.54	45.59	37.72	7.72	35.21	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)

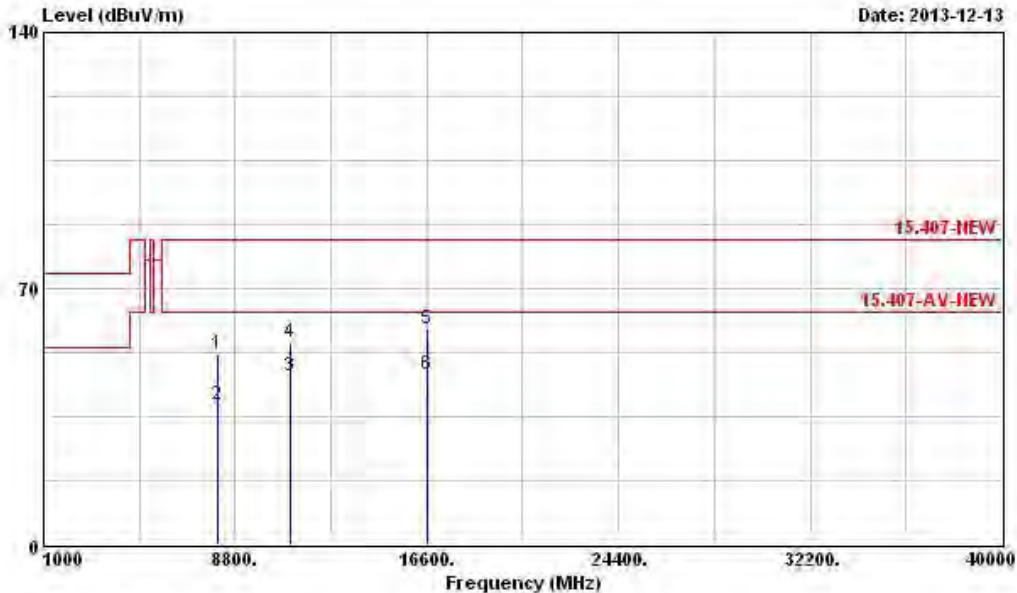
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5530
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8080.000	52.12	-31.42	83.54	44.32	37.60	5.35	35.15	Peak	---
2	8080.000	38.30	-25.24	63.54	30.50	37.60	5.35	35.15	Average	---
3	11060.000	45.90	-17.64	63.54	34.97	38.51	6.25	33.83	Average	---
4	11060.000	55.12	-28.42	83.54	44.19	38.51	6.25	33.83	Peak	---
5	16590.000	58.97	-24.57	83.54	45.30	39.60	8.77	34.70	Peak	---
6	16590.000	46.29	-17.25	63.54	32.62	39.60	8.77	34.70	Average	---

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)

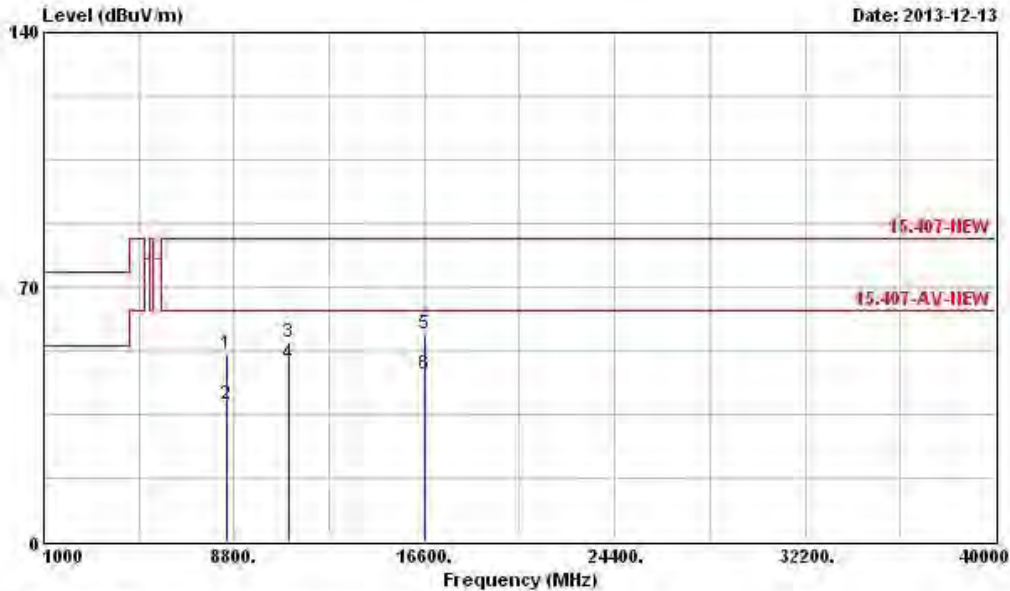
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	VHT80	Test Freq. (MHz)	5530
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8520.000	51.39	-32.15	83.54	43.37	37.62	5.50	35.10	Peak	---	---
2	8520.000	37.96	-25.58	63.54	29.94	37.62	5.50	35.10	Average	---	---
3	11060.000	54.96	-28.58	83.54	44.03	38.51	6.25	33.83	Peak	---	---
4	11060.000	48.77	-14.77	63.54	37.84	38.51	6.25	33.83	Average	---	---
5	16590.000	57.27	-26.27	83.54	43.60	39.60	8.77	34.70	Peak	---	---
6	16590.000	46.20	-17.34	63.54	32.53	39.60	8.77	34.70	Average	---	---

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.

Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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.

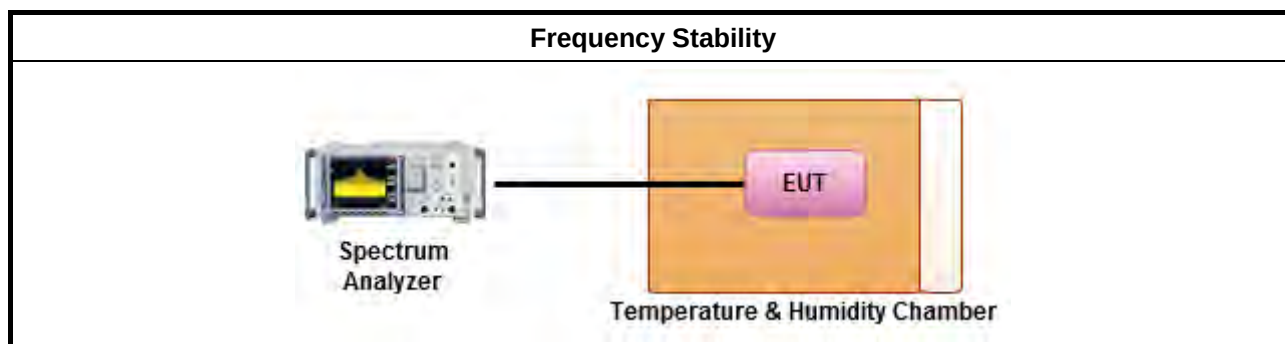
3.8.2 Measuring Instruments

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



3.8.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		Frequency Stability (ppm)	
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)
T20°CVmax	5180	5179.98260	-3.3591
T20°CVmin	5180	5179.98260	-3.3591
T50°CVnom	5180	5179.95740	-8.2239
T40°CVnom	5180	5179.95920	-7.8764
T30°CVnom	5180	5179.96940	-5.9073
T20°CVnom	5180	5179.98260	-3.3591
T10°CVnom	5180	5180.00960	1.8533
T0°CVnom	5180	5180.02340	4.5174
T-10°CVnom	5180	5180.03960	7.6448
T-20°CVnom	5180	5180.05160	9.9614
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	9kHz ~ 2.75GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Oct. 30, 2013	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	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	FSV 40	101013	9KHz~40GHz	Jan. 29, 2013	Conducted (TH06-HY)
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345673/4	30MHz ~ 26.5GHz	Dec. 04, 2012 Dec. 02, 2013	Conducted (TH06-HY)

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



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Radiation (03CH02-HY)
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Oct. 03, 2013	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 10, 2013	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3115	6744	1GHz ~ 18GHz	Mar. 18, 2013	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 09, 2013	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation (03CH02-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, 2013	Radiation (03CH02-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation (03CH02-HY)

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