

FCC Test Report

Equipment : Dual-band Wi-Fi
Brand Name : 
Model No. : 50-0010-CL-WF
FCC ID : S4A50-0010-CL-WF
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 : Entone Technologies (HK) Limited
Level 28, Saxon Tower, 7 Cheung Shun Street,
Lai Chi Kok, HongKong
Manufacturer : XAVi Technologies Corporation
9F, No.129, Hsing Te Rd., Sanchung Dist.,
New Taipei City 241, Taiwan, R.O.C.
Operate Mode : Client without radar detection

The product sample received on Jul. 26, 2013 and completely tested on Sep. 04, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

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

Reviewed by:

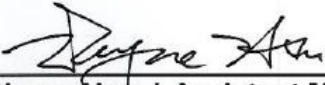

Wayne Hsu / Assistant Manager

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Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.1934380MHz 46.50 (Margin 7.39dB) - AV 50.96 (Margin 12.93dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:25.66 / 40M:49.92	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:14.95 5250-5350MHz:16.28 5470-5725MHz:15.24	Power [dBm] 5150-5250MHz:17 5250-5350MHz:24 5470-5725MHz:24	Complied
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:3.51 5250-5350MHz:3.59 5470-5725MHz:3.26	PPSD [dBm/MHz] 5150-5250MHz:4 5250-5350MHz:11 5470-5725MHz:11	Complied
3.5	15.407(a)	Peak Excursion	8.95 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Bandedge Emissions	Restricted Bands [dBuV/m at 1m]: 5350.01MHz 79.21 (Margin 4.33dB) - PK 62.48 (Margin 1.06dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Unwanted Emissions	Restricted Bands [dBuV/m at 1m]: 6972.000MHz 64.45 (Margin 19.09dB) - PK 62.69 (Margin 0.85dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	12.7792 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)	Co-location
5150-5250	a	5180-5240	36-48 [4]	1	11.17	N/A
5250-5350		5260-5320	52-64 [4]	1	10.99	
5470-5725		5500-5700	100-140 [8]	1	10.70	
5150-5250	n (HT20)	5180-5240	36-48 [4]	2	14.81	N/A
5250-5350		5260-5320	52-64 [4]	2	14.80	
5470-5725		5500-5700	100-140 [8]	2	14.50	
5150-5250	n (HT40)	5190-5230	38-46 [2]	2	14.87	N/A
5250-5350		5270-5310	54-62 [2]	2	15.85	
5470-5725		5510-5670	102-134 [3]	2	15.18	
5150-5250	n (HT20)	5180-5240	36-48 [4]	3	13.39	N/A
5250-5350		5260-5320	52-64 [4]	3	14.82	
5470-5725		5500-5700	100-140 [8]	3	14.57	
5150-5250	n (HT40)	5190-5230	38-46 [2]	3	14.95	N/A
5250-5350		5270-5310	54-62 [2]	3	16.28	
5470-5725		5510-5670	102-134 [3]	3	15.24	

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 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.2 Antenna Information

Antenna Category	
☒	External antenna (dedicated antennas)
☒	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	PIFA	4.2
			4.9
			3.6

Reminder:

- For the 1Tx Mode, the EUT was pre-tested Antenna Port 1, Antenna Port 2 and Antenna Port 3 for single chain, the worst case was Antenna Port 1. Therefore only the test data recorded in this report.
- For the 2Tx Mode, the EUT will be used the Antenna Port 1 and Antenna Port 2, only these two ports can be transmitted at the same time.

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)
☒ 100.00% - IEEE 802.11a	0
☒ 100.00% - IEEE 802.11n (HT20)	0
☒ 100.00% - IEEE 802.11n (HT40)	0

1.1.5 EUT Operational Condition

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

1.1.6 DFS and TPC Information

The DFS Related Operating Mode(s) of the Equipment			
☐ Master			
☐ Cilent with radar detection			
☒ Cilent without radar detection			
Software / Firmware Version		5.1.0.0	
Communication Mode		☒ IP Based (Load Based)	☐ Frame Based
IEEE Std. 802.11	Frequency Range (MHz)	TPC (Transmit Power Control)	Passive Scan
a / n (HT20)	☒ 5250-5350	No	Yes
n (HT40)	☒ 5470-5725	No	Yes

1.2 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	PP25L	DoC
2	MIC+Earphone	Apple	MB770FE/A	N/A
3	USB Mouse	Microsoft	1004	DoC
4	USB Port Test Fixture	--	--	--
5	AP (Remote)	ASUS	RT-AC66U	MSQ-RTAC66U

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 662911
- ◆ FCC KDB 412172

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	24.3°C / 56%
RF Conducted	TH06-HY	Shiming	21.8°C / 62%
Radiated Emission	03CH03-HY	Eddie	23.5°C / 55.2%

1.5 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M8-15	2	M8-15	M8
HT40,M8-15	2	M8-15	M8
HT20,M16-23	3	M16-23	M16
HT40, M16-23	3	M16-23	M16

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)						
Test Software Version	RT3573 QA_V1.0.1.9					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5180	5200	5240	5190	5230
11a,6-54Mbps	1	06	06	07	-	-
HT20,M8-15	2	08/0D	09/0D	0B/0E	-	-
HT40,M8-15	2	-	-	-	05/08	0A/0E
HT20,M16-23	3	00/02/03	00/03/04	05/07/07	-	-
HT40, M16-23	3	-	-	-	00/01/03	08/09/0B

The Worst Case Power Setting Parameter (5250-5350MHz band)						
Test Software Version	RT3573 QA_V1.0.1.9					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5260	5300	5320	5270	5310
11a,6-54Mbps	1	07	08	08	-	-
HT20,M8-15	2	0C/0F	0D/0E	08/08	-	-
HT40,M8-15	2	-	-	-	0F/10	03/03
HT20,M16-23	3	05/07/06	09/0A/07	0A/09/06	-	-
HT40, M16-23	3	-	-	-	0D/0E/0D	01/01/01

The Worst Case Power Setting Parameter (5470-5725MHz band)							
Test Software Version	RT3573 QA_V1.0.1.9						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	1	0B	10	0E	-	-	-
HT20,M8-15	2	09/07	16/13	11/0D	-	-	-
HT40,M8-15	2	-	-	-	04/02	17/15	1B/18
HT20,M16-23	3	09/08/00	12/10/09	12/0F/0A	-	-	-
HT40, M16-23	3	-	-	-	01/01/00	14/11/0B	15/13/0E

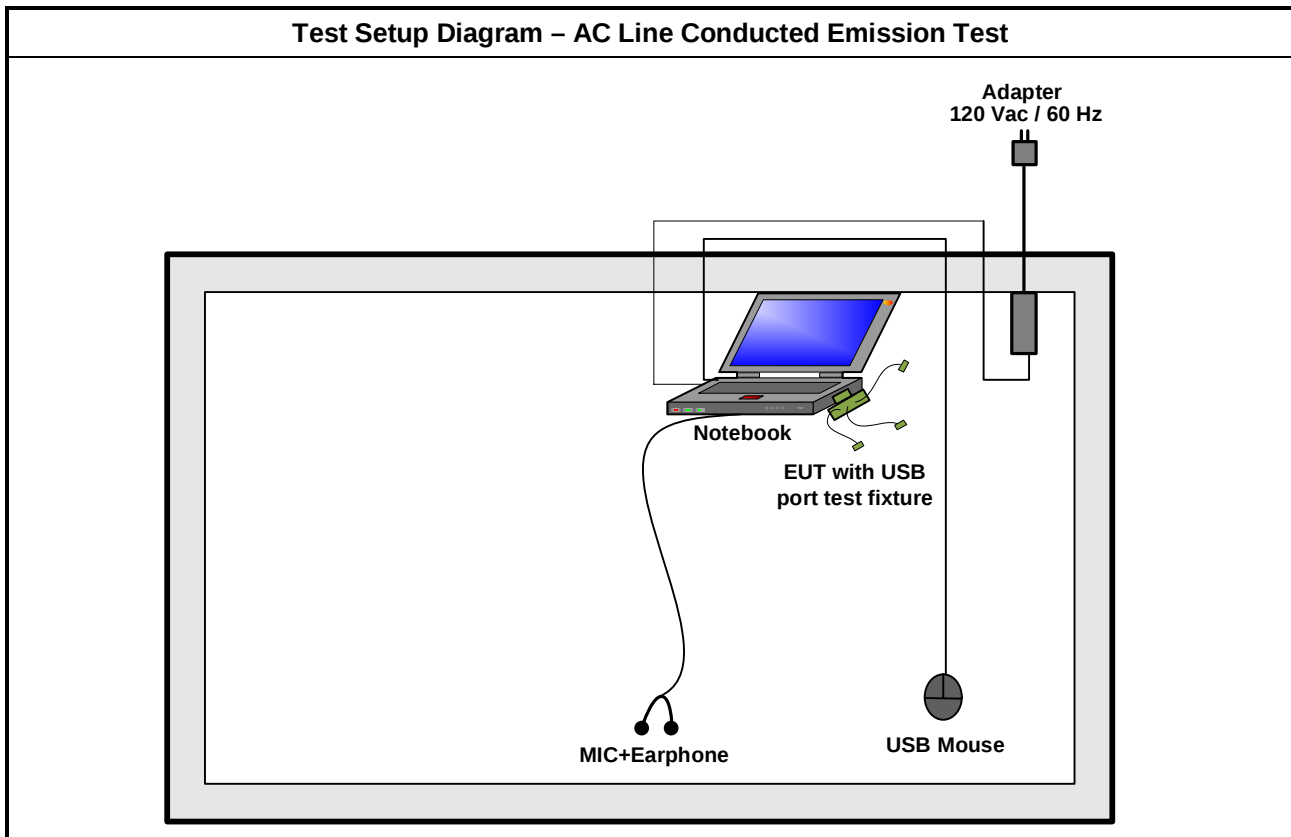
2.3 The Worst Case Measurement Configuration

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 via USB port test fixture (Open WLAN function)

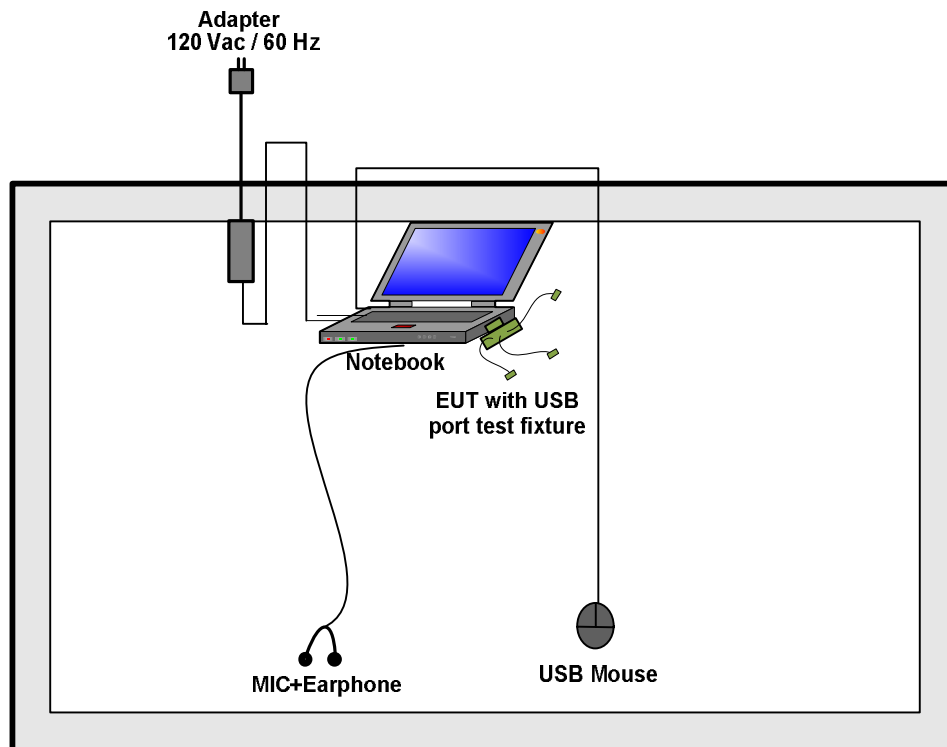
The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion
Test Condition	Conducted measurement at transmit chains
Modulation Mode	11a, HT20, HT40

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. The worst planes is Z.		
	☐ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.		
	☐ 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 via USB port test fixture (Open WLAN function)		
Modulation Mode	11a, HT20, HT40		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

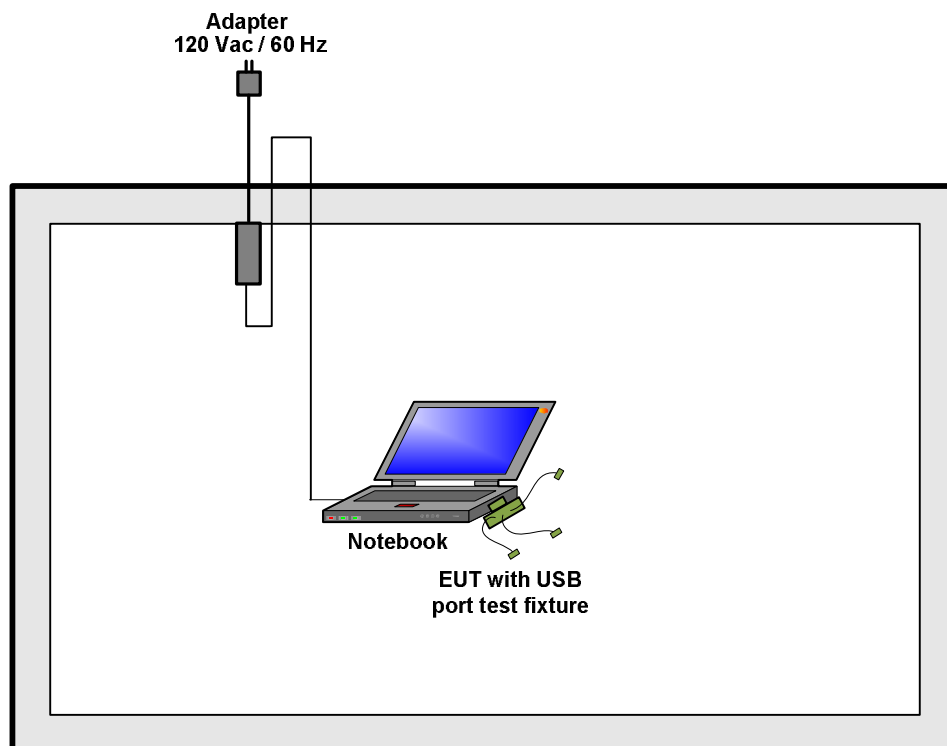
2.4 Test Setup Diagram



Test Setup Diagram - Radiated Test (Below 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.

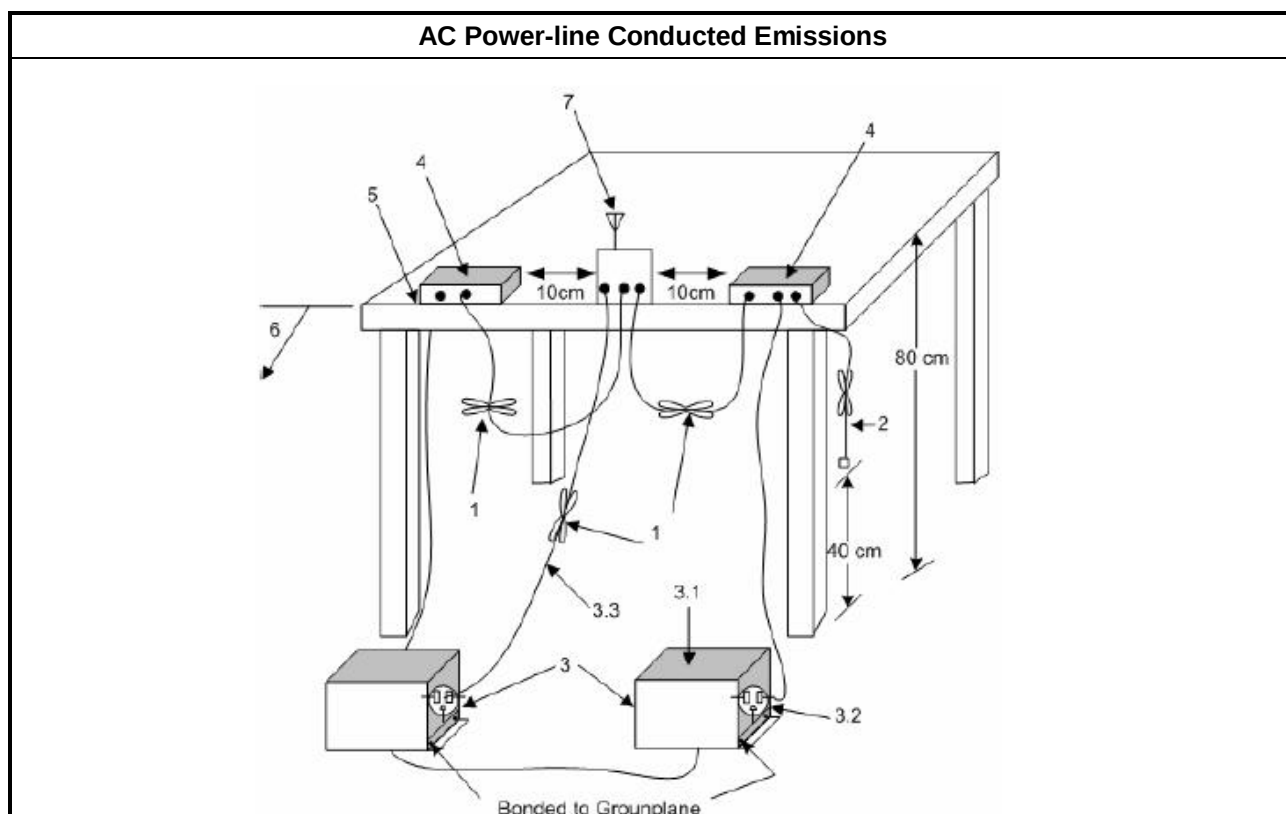
3.1.2 Measuring Instruments

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

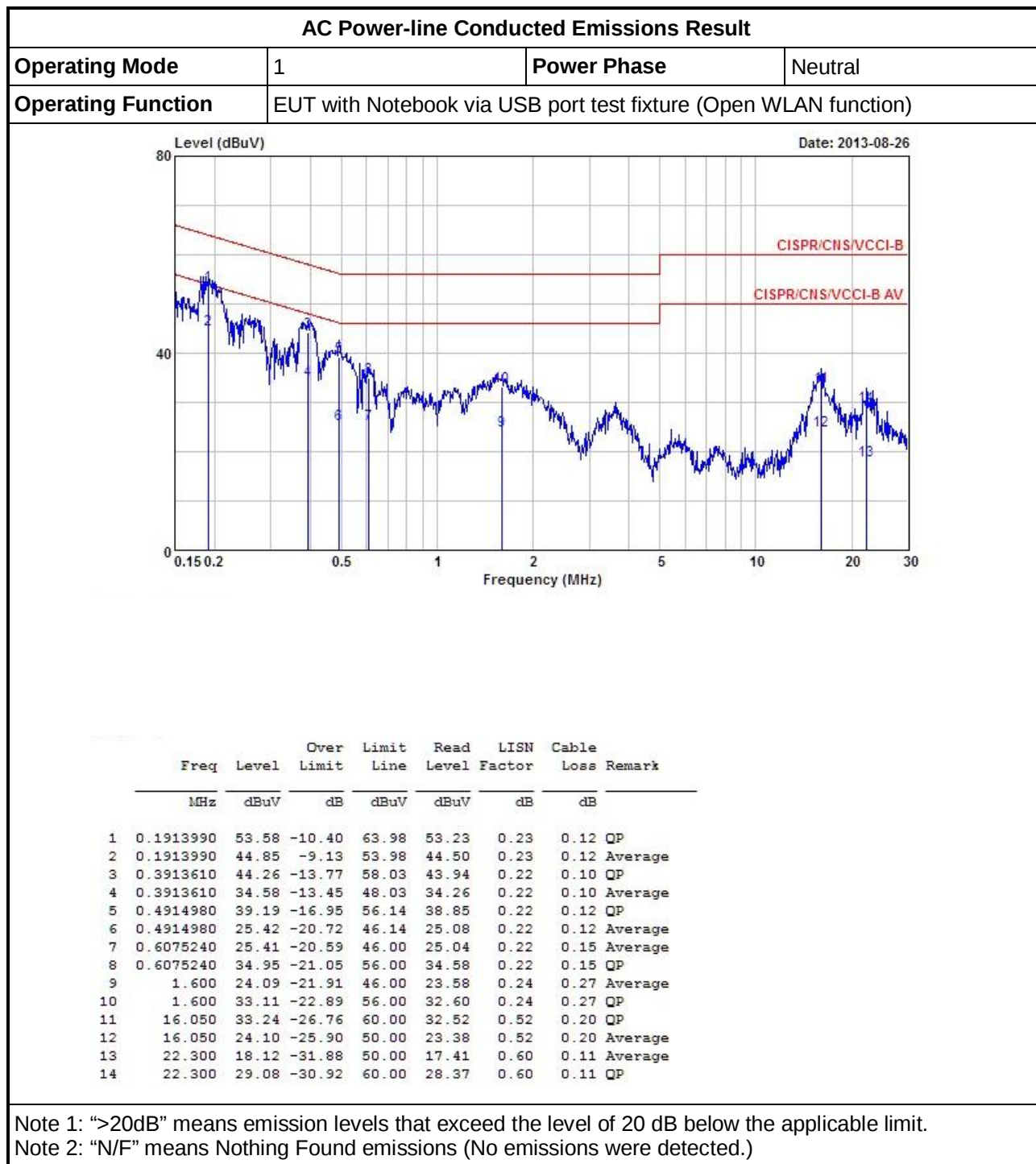
3.1.3 Test Procedures

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

3.1.4 Test Setup

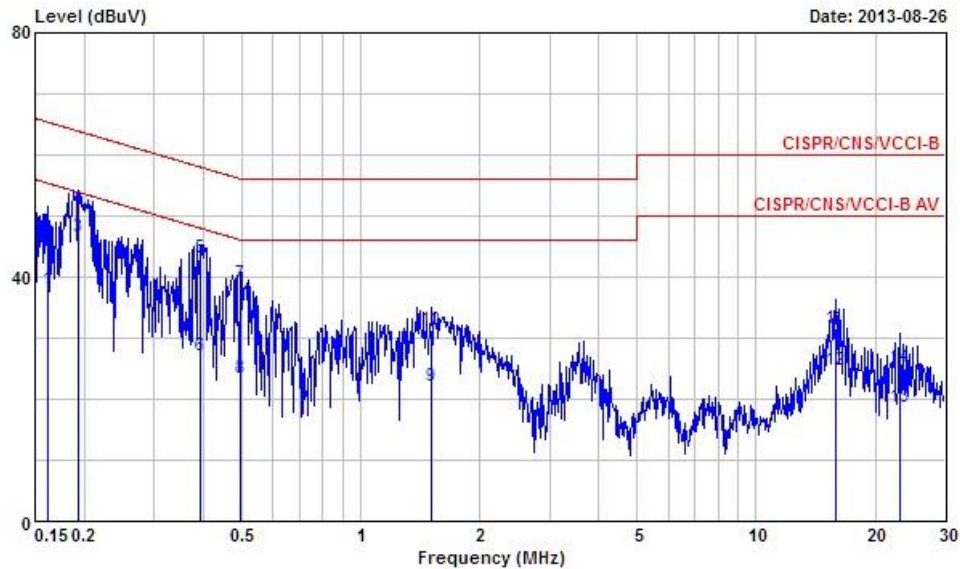


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	EUT with Notebook via USB port test fixture (Open WLAN function)		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1615500	38.02	-17.36	55.38	37.69	0.11	0.22	Average
2	0.1615500	45.57	-19.81	65.38	45.24	0.11	0.22	QP
3	0.1934380	46.50	-7.39	53.89	46.27	0.11	0.12	Average
4	0.1934380	50.96	-12.93	63.89	50.73	0.11	0.12	QP
5	0.3934400	43.24	-14.75	57.99	43.04	0.10	0.10	QP
6	0.3934400	26.98	-21.01	47.99	26.78	0.10	0.10	Average
7	0.4941090	38.86	-17.24	56.10	38.64	0.10	0.12	QP
8	0.4941090	23.52	-22.58	46.10	23.30	0.10	0.12	Average
9	1.510	22.14	-23.86	46.00	21.76	0.12	0.26	Average
10	1.510	31.24	-24.76	56.00	30.86	0.12	0.26	QP
11	15.890	31.61	-28.39	60.00	31.12	0.29	0.20	QP
12	15.890	24.71	-25.29	50.00	24.22	0.29	0.20	Average
13	23.020	18.60	-31.40	50.00	18.19	0.33	0.08	Average
14	23.020	25.14	-34.86	60.00	24.73	0.33	0.08	QP

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

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

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

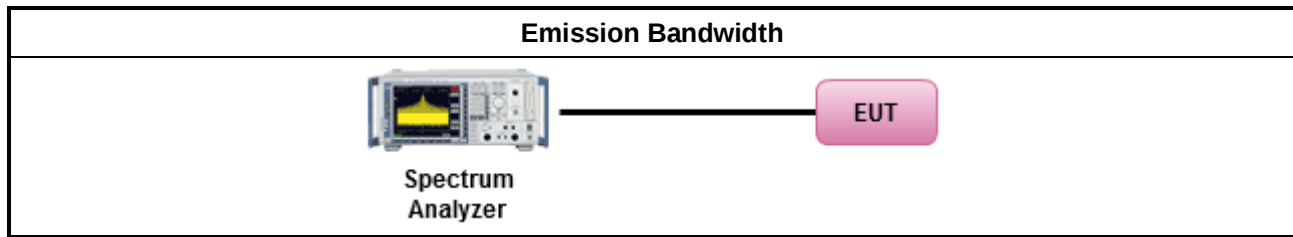
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



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	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 1	Chain-Port 2	Chain-Port 3	99% BW	26dB BW
11a	1	5180	16.70	-	-	22.53	-	-	16.23	17.00
11a	1	5200	16.43	-	-	19.56	-	-	16.16	16.91
11a	1	5240	16.53	-	-	19.18	-	-	16.18	16.83
HT20	2	5180	17.52	17.49	-	19.47	19.38	-	16.43	16.87
HT20	2	5200	17.48	17.45	-	19.12	19.23	-	16.42	16.81
HT20	2	5240	17.60	17.66	-	19.47	21.85	-	16.46	16.89
HT20	3	5180	17.55	17.51	17.57	19.44	19.71	20.44	16.43	16.89
HT20	3	5200	17.48	17.51	17.45	19.38	19.45	19.17	16.42	16.83
HT20	3	5240	17.67	17.63	17.55	24.19	20.59	20.22	16.44	17.00
HT40	2	5190	36.06	36.02	-	47.44	41.72	-	17.00	17.00
HT40	2	5230	36.06	36.06	-	43.60	41.80	-	17.00	17.00
HT40	3	5190	36.10	36.06	36.06	42.64	43.88	42.52	17.00	17.00
HT40	3	5230	36.10	35.98	36.06	45.80	42.24	43.36	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	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 1	Chain-Port 2	Chain-Port 3	99% BW	26dB BW
11a	1	5260	16.64	-	-	19.99	-	-	20.21	21.01
11a	1	5300	16.59	-	-	19.18	-	-	20.20	20.83
11a	1	5320	16.44	-	-	18.75	-	-	20.16	20.73
HT20	2	5260	17.66	17.64	-	20.26	22.75	-	20.46	21.07
HT20	2	5300	17.52	17.60	-	21.76	19.60	-	20.44	20.92
HT20	2	5320	17.52	17.54	-	19.57	19.21	-	20.44	20.84
HT20	3	5260	17.60	17.67	17.48	20.83	19.86	19.11	20.43	20.81
HT20	3	5300	17.55	17.51	17.46	22.45	21.85	25.66	20.42	21.39
HT20	3	5320	17.57	17.57	17.58	20.46	19.68	21.21	20.45	20.94
HT40	2	5270	36.10	36.06	-	47.80	41.40	-	23.57	24.00
HT40	2	5310	36.06	36.02	-	43.68	40.44	-	23.57	24.00
HT40	3	5270	36.14	36.10	36.14	48.96	41.72	46.88	23.58	24.00
HT40	3	5310	36.10	36.10	35.98	47.64	40.12	44.08	23.56	24.00
Result			Complied							

UNII Emission Bandwidth Result (5470-5725MHz band)										
Condition			Emission Bandwidth (MHz)							
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth			26dB Bandwidth			Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 1	Chain-Port 2	Chain-Port 3	99% BW	26dB BW
11a	1	5500	16.56	-	-	19.32	-	-	20.19	20.86
11a	1	5580	16.41	-	-	21.97	-	-	20.15	21.42
11a	1	5700	16.49	-	-	19.66	-	-	20.17	20.94
HT20	2	5500	17.46	17.58	-	20.01	19.39	-	20.42	20.88
HT20	2	5580	17.60	17.58	-	19.47	19.78	-	20.45	20.89
HT20	2	5700	17.58	17.58	-	19.38	21.31	-	20.45	20.87
HT20	3	5500	17.60	17.61	17.54	20.49	21.60	22.69	20.44	21.12
HT20	3	5580	17.54	17.55	17.58	20.50	19.99	19.99	20.44	21.01
HT20	3	5700	17.51	17.51	17.54	19.65	20.32	20.97	20.43	20.93
HT40	2	5510	36.06	36.06	-	43.84	40.76	-	23.57	24.00
HT40	2	5550	36.18	36.14	-	47.84	45.40	-	23.58	24.00
HT40	2	5670	36.06	36.06	-	49.92	42.96	-	23.57	24.00
HT40	3	5510	36.14	36.02	36.06	48.24	40.52	41.24	23.57	24.00
HT40	3	5550	36.18	36.18	36.14	49.20	42.24	45.84	23.58	24.00
HT40	3	5670	36.10	36.02	36.18	45.88	43.12	45.88	23.57	24.00
Result			Complied							



Spectrum

Ref Level 20.00 dBm

Att 30 dB

SWT 2 ms

RBW 1 MHz

VBW 3 MHz

Mode Auto Sweep

SGL Count 20/20

1Pk Max

M1[1] -25.58 dBm

5.165980 GHz

36.061969015 MHz

0.14 dB

D1[1]

D2 -29.997 dBm

F1

F2

CF 5.19 GHz

2001 pts

Span 80.0 MHz

Date: 4 SEP 2013 06:19:56

Spectrum

Ref Level 20.00 dBm

Att 30 dB

SWT 2 ms

VBW 3 MHz

Mode Auto Sweep

SGL Count 20/20

1Pk Max

M1[1] -23.26 dBm

Occ Bw 5.2146800 GHz

D1[1] 36.141929035 MHz

D1 2.410 dBm

D2 -3.590 dBm

D3 -48.9600 MHz

F1

F2

CF 5.27 GHz

2001 pts

Span 80.0 MHz

Date: 4-SEP-2013 05:56:38

Spectrum

Ref Level 20.00 dBm RBW 1 MHz
 Att 30 dB SWT 2 ms VBW 3 MHz Mode Auto Sweep
 SGL Count 20/20
 1Pk Max

10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm
 -70 dBm
 -80 dBm

M1[1]
 Occ Bw
 D1[1]

-22.02 dBm
 5.6442400 GHz
 36.061960015 MHz
 -0.10 dBm
 49.9200 MHz

D1 3.609 dBm
 D2 -22.311 dBm

F1 F2

CF 5.67 GHz 2001 pts Span 80.0 MHz

Date: 4-SEP-2013 06:47:38

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.	

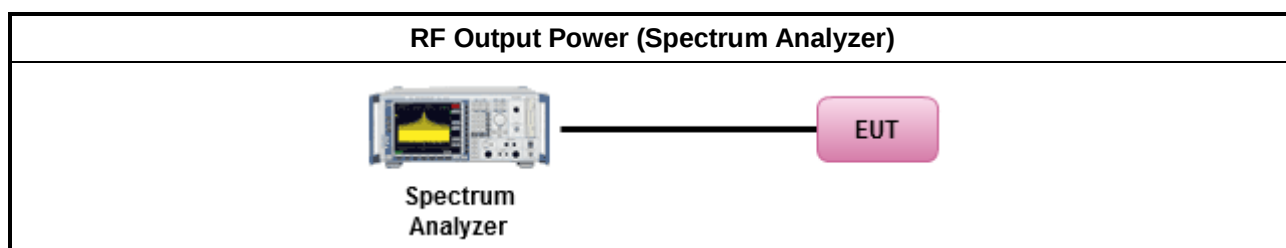
3.3.2 Measuring Instruments

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 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	2	3	-
Maximum G_{ANT} (dBi)		4.20	4.90	3.60	-
Modulation Mode	DG (dBi)	N_{TX}	N_{SS} (Min.)	STBC	Array Gain (dB)
11a,6-54Mbps	4.20	1	1	-	-
HT20,M8-15 (See Note 2)	4.56	2	2	-	-
HT40,M8-15 (See Note 2)	4.56	2	2	-	-
HT20,M16-23 (See Note 2)	4.27	3	3	-	-
HT40,M16-23 (See Note 2)	4.27	3	3	-	-
Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$ All transmit signals are completely uncorrelated, Directional Gain = G_{ANT} Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G_{1/20}} + \dots + 10^{G_{N/20}})^2 / N_{TX}]$ All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G_{1/10}} + \dots + 10^{G_{N/10}}) / N_{TX}]$ Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$, where N_{SS} = the number of independent spatial streams data. Note 4: For CDD transmissions, directional gain is calculated as power measurements: Directional Gain (DG) = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows: Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$; Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX};					

3.3.6 Test Result of Maximum Conducted Output Power

Maximum Conducted Output Power (5150-5250MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Power Limit	Ant. Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5180	11.03	17.00	4.20	15.23	22.23
11a	1	5200	10.95	16.91	4.20	15.15	22.16
11a	1	5240	11.17	16.83	4.20	15.37	22.18
Result			Complied				

Maximum Conducted Output Power (5150-5250MHz band)										
Condition			RF Output Power (dBm)							
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5180	11.62	11.61	-	14.63	16.87	4.56	15.23	22.23
HT20	2	5200	11.41	11.62	-	14.53	16.81	4.56	15.15	22.16
HT20	2	5240	11.89	11.71	-	14.81	16.89	4.56	15.37	22.18
HT20	3	5180	7.27	6.44	6.66	11.58	16.89	4.27	19.19	22.43
HT20	3	5200	7.46	7.26	7.51	12.18	16.83	4.27	19.09	22.42
HT20	3	5240	8.89	8.26	8.68	13.39	17.00	4.27	19.38	22.46
HT40	2	5190	9.89	9.49	-	12.70	17.00	4.56	15.84	22.43
HT40	2	5230	11.86	11.85	-	14.87	17.00	4.56	16.45	22.42
HT40	3	5190	6.94	5.53	6.45	11.12	17.00	4.27	17.65	22.44
HT40	3	5230	10.36	9.37	10.69	14.95	17.00	4.27	17.27	23.00
Result			Complied							

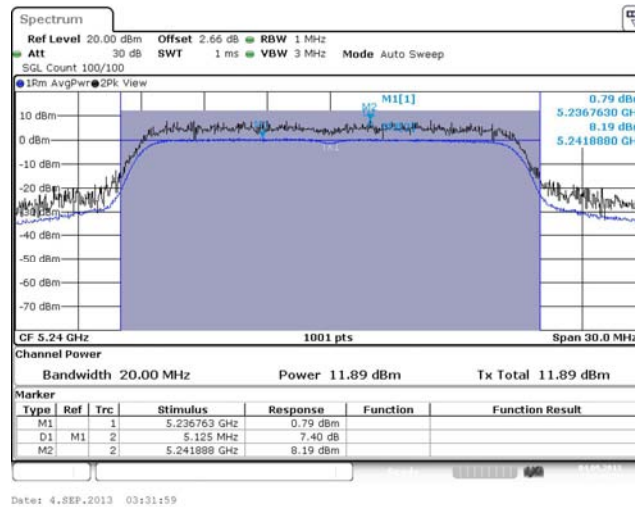
Maximum Conducted Output Power (5250-5350MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Power Limit	Ant. Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5260	10.97	21.01	4.20	15.17	26.21
11a	1	5300	10.99	20.83	4.20	15.19	26.20
11a	1	5320	10.88	20.73	4.20	15.08	26.16
Result			Complied				

Maximum Conducted Output Power (5250-5350MHz band)										
Condition			RF Output Power (dBm)							
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5260	11.74	11.84	-	14.80	21.07	4.56	19.36	26.46
HT20	2	5300	11.70	11.72	-	14.72	20.92	4.56	19.28	26.44
HT20	2	5320	9.72	9.62	-	12.68	20.84	4.56	17.24	26.44
HT20	3	5260	8.42	8.00	8.43	13.06	20.81	4.27	17.33	26.43
HT20	3	5300	9.79	10.04	10.02	14.72	21.39	4.27	18.99	26.42
HT20	3	5320	10.36	9.64	10.12	14.82	20.94	4.27	19.09	26.45
HT40	2	5270	12.81	12.86	-	15.85	24.00	4.56	20.41	27.00
HT40	2	5310	7.04	6.60	-	9.84	24.00	4.56	14.40	27.00
HT40	3	5270	11.60	10.98	11.90	16.28	24.00	4.27	20.55	27.00
HT40	3	5310	6.07	5.66	7.72	11.35	24.00	4.27	15.61	27.00
Result			Complied							

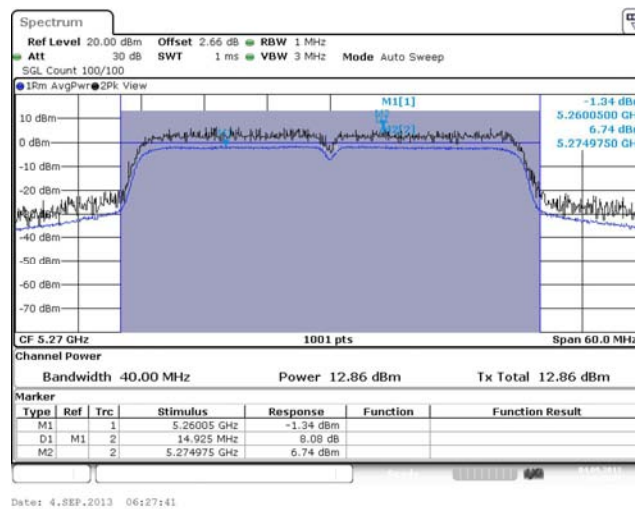
Maximum Conducted Output Power (5470-5725MHz band)							
Condition			RF Output Power (dBm)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Power Limit	Ant. Gain (dBi)	EIRP Power	EIRP Limit
11a	1	5500	9.04	20.86	4.20	13.24	26.19
11a	1	5580	10.70	21.42	4.20	14.90	26.15
11a	1	5700	6.19	20.94	4.20	10.39	26.17
Result			Complied				

Maximum Conducted Output Power (5470-5725MHz band)										
Condition			RF Output Power (dBm)							
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT20	2	5500	7.36	7.05	-	10.22	20.88	4.56	14.78	26.42
HT20	2	5580	11.45	11.53	-	14.50	20.89	4.56	19.06	26.45
HT20	2	5700	6.93	6.70	-	9.83	20.87	4.56	14.39	26.45
HT20	3	5500	6.71	7.29	6.52	11.62	21.12	4.27	15.89	26.44
HT20	3	5580	9.80	9.95	9.64	14.57	21.02	4.27	18.84	26.44
HT20	3	5700	7.29	7.16	7.65	12.14	20.93	4.27	16.41	26.43
HT40	2	5510	3.68	3.88	-	6.79	24.00	4.56	11.36	27.00
HT40	2	5550	11.70	12.15	-	14.94	24.00	4.56	19.51	27.00
HT40	2	5670	12.11	12.22	-	15.18	24.00	4.56	19.74	27.00
HT40	3	5510	2.68	3.66	6.66	9.45	24.00	4.27	13.72	27.00
HT40	3	5550	10.50	10.27	10.63	15.24	24.00	4.27	19.51	27.00
HT40	3	5670	9.26	10.00	9.57	14.39	24.00	4.27	18.66	27.00
Result			Complied							

5150-5250MHz - Worst RF Output Power Plots



5250-5350MHz - Worst RF Output Power Plots



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.	

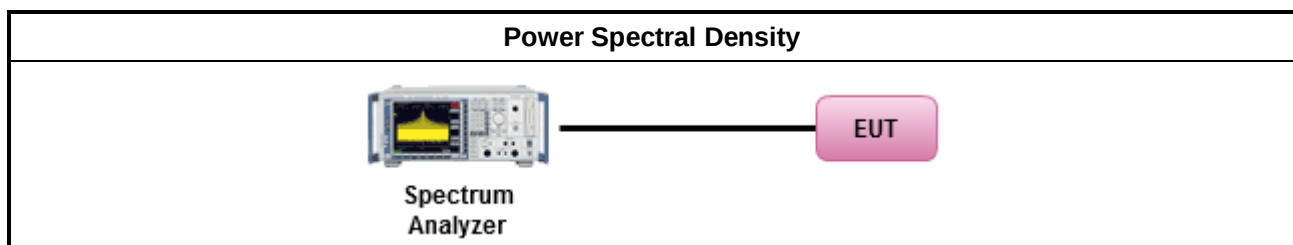
3.4.2 Measuring Instruments

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 Directional Gain for Power Spectral Density Measurement

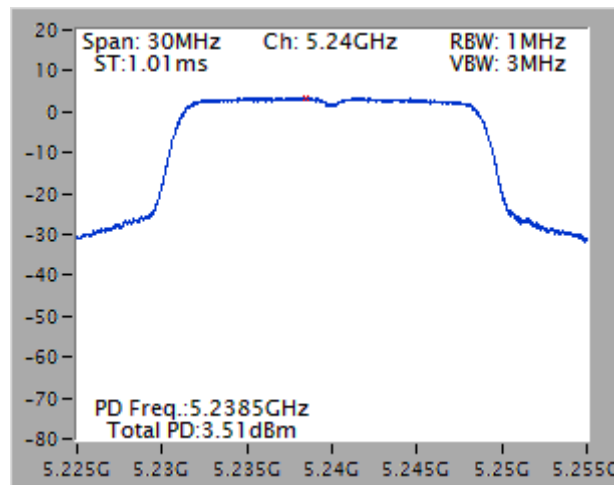
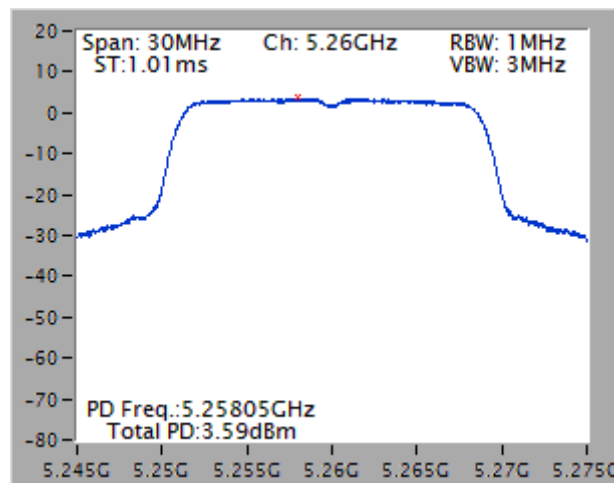
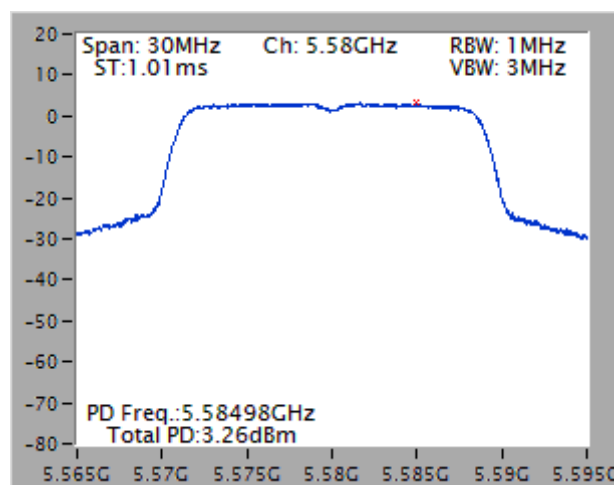
Directional Gain (DG) Result					
Transmit Chains No.		1	2	3	-
Maximum G_{ANT} (dBi)		4.20	4.90	3.60	-
Modulation Mode	DG (dBi)	N_{TX}	N_{SS} (Min.)	STBC	Array Gain (dB)
11a,6-54Mbps	4.20	1	1	-	0
HT20,M8-15 (See Note 2)	4.56	2	2		0
HT40,M8-15 (See Note 2)	4.56	2	2		0
HT20,M16-23 (See Note 2)	4.27	3	3	-	0
HT40,M16-23 (See Note 2)	4.27	3	3	-	0
Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = $G_{ANT} + 10 \log(N_{TX})$ All transmit signals are completely uncorrelated, Directional Gain = G_{ANT} Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = $10 \log[(10^{G_{1/20}} + \dots + 10^{G_{N/20}})^2 / N_{TX}]$ All transmit signals are completely uncorrelated, Directional Gain = $10 \log[(10^{G_{1/10}} + \dots + 10^{G_{N/10}}) / N_{TX}]$ Note 3: For Spatial Multiplexing, Directional Gain (DG) = $G_{ANT} + 10 \log(N_{TX}/N_{SS})$, where N_{SS} = the number of independent spatial streams data. Note 4: For CDD transmissions, directional gain is calculated as power spectral density measurements: Directional Gain (DG) = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows: Array Gain = $10 \log(N_{TX}/N_{SS})$;					

3.4.6 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)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	0.00	4.00	4.20	4.20	10.00
11a	1	5200	0.05	4.00	4.20	4.25	10.00
11a	1	5240	0.28	4.00	4.20	4.48	10.00
HT20	2	5180	3.30	4.00	4.56	7.86	10.00
HT20	2	5200	3.15	4.00	4.56	7.71	10.00
HT20	2	5240	3.51	4.00	4.56	8.07	10.00
HT20	3	5180	0.03	4.00	4.27	4.30	10.00
HT20	3	5200	0.74	4.00	4.27	5.01	10.00
HT20	3	5240	2.04	4.00	4.27	6.31	10.00
HT40	2	5190	-1.71	4.00	4.56	2.85	10.00
HT40	2	5230	0.48	4.00	4.56	5.04	10.00
HT40	3	5190	-3.37	4.00	4.27	0.90	10.00
HT40	3	5230	0.54	4.00	4.27	4.81	10.00
Result			Complied				

Peak Power Spectral Density Result (5250-5350MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5260	-0.06	11.00	4.20	4.14	17.00
11a	1	5300	-0.03	11.00	4.20	4.17	17.00
11a	1	5320	0.03	11.00	4.20	4.23	17.00
HT20,	2	5260	3.59	11.00	4.56	8.15	17.00
HT20	2	5300	3.55	11.00	4.56	8.11	17.00
HT20,	2	5320	1.26	11.00	4.56	5.82	17.00
HT20	3	5260	1.55	11.00	4.27	5.82	17.00
HT20,	3	5300	3.29	11.00	4.27	7.56	17.00
HT20	3	5320	3.34	11.00	4.27	7.61	17.00
HT40	2	5270	1.44	11.00	4.56	6.00	17.00
HT40	2	5310	-4.68	11.00	4.56	-0.12	17.00
HT40	3	5270	1.76	11.00	4.27	6.03	17.00
HT40	3	5310	-3.18	11.00	4.27	1.09	17.00
Result			Complied				

Peak Power Spectral Density Result (5470-5725MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5500	-1.98	11.00	4.20	2.22	17.00
11a	1	5580	-0.35	11.00	4.20	3.85	17.00
11a	1	5700	-4.89	11.00	4.20	-0.69	17.00
HT20	2	5500	-1.12	11.00	4.56	3.44	17.00
HT20	2	5580	3.26	11.00	4.56	7.82	17.00
HT20,	2	5700	-1.47	11.00	4.56	3.09	17.00
HT20	3	5500	0.22	11.00	4.27	4.49	17.00
HT20	3	5580	3.25	11.00	4.27	7.52	17.00
HT20	3	5700	0.83	11.00	4.27	5.10	17.00
HT40	2	5510	-7.56	11.00	4.56	-3.00	17.00
HT40	2	5550	0.54	11.00	4.56	5.10	17.00
HT40	2	5670	0.75	11.00	4.56	5.31	17.00
HT40	3	5510	-4.93	11.00	4.27	-0.66	17.00
HT40	3	5550	0.74	11.00	4.27	5.01	17.00
HT40	3	5670	0.03	11.00	4.27	4.30	17.00
Result			Complied				

5150-5250MHz - Worst Power Spectral Density Plots

5250-5350MHz - Worst Power Spectral Density Plots

5470-5725MHz - 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

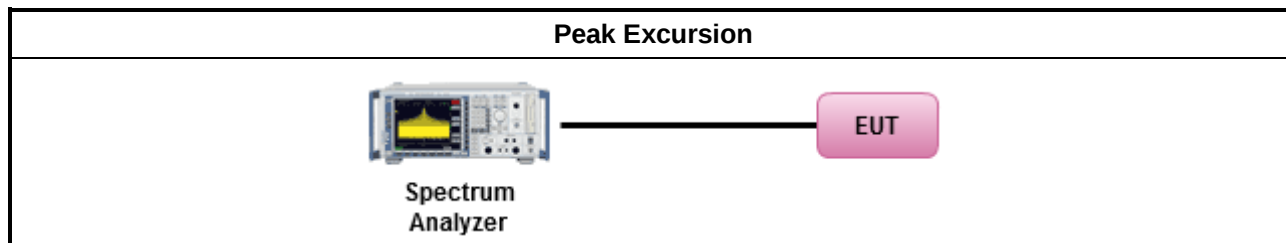
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

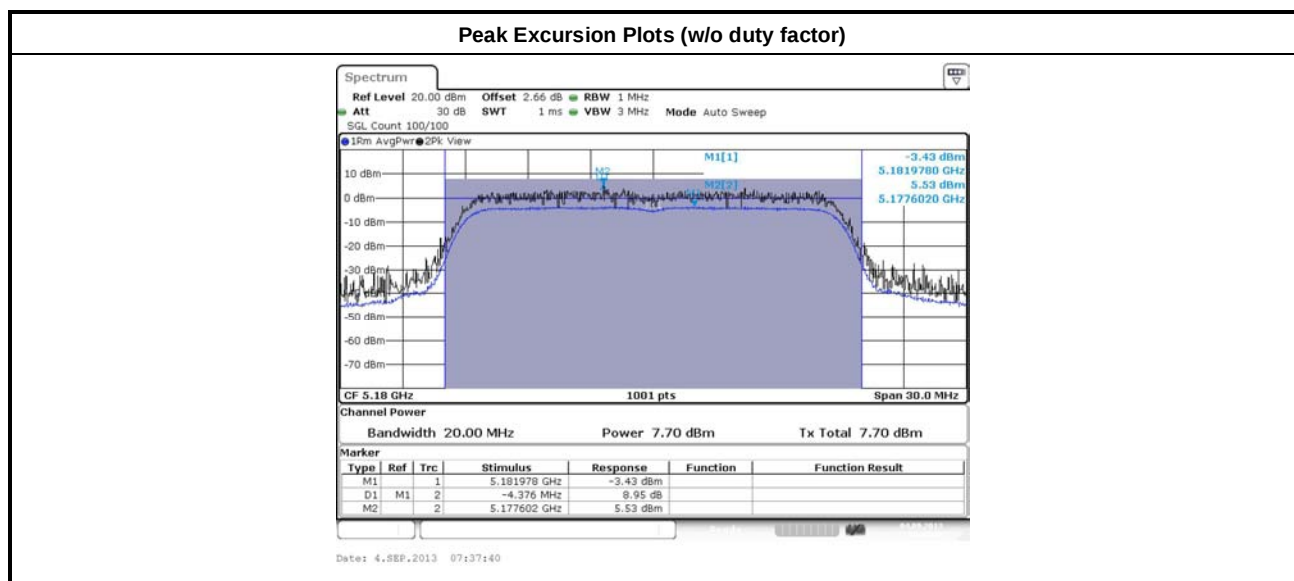
Test Method	
☒	Refer as FCC KDB 789033, clause G peak excursion method.
☒	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
☒	For conducted measurement.
☐	☒ Testing a single output port is sufficient to demonstrate compliance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

3.5.4 Test Setup



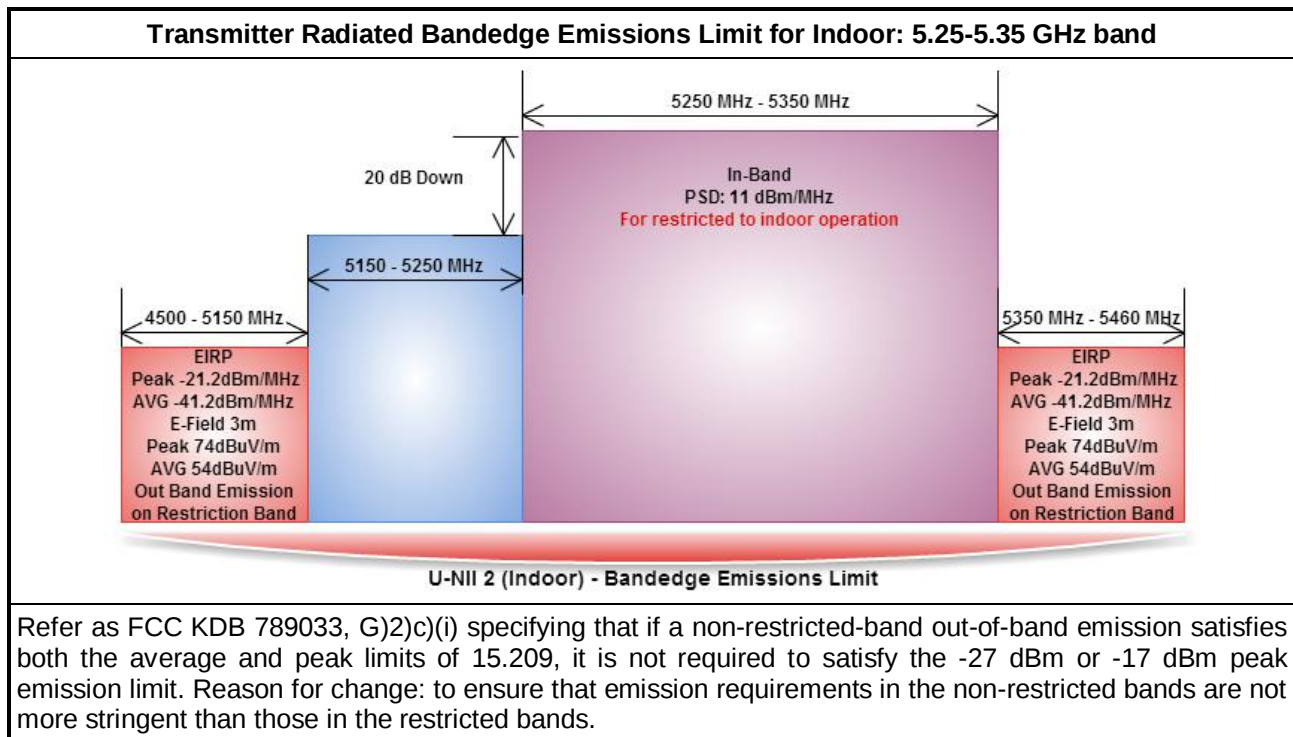
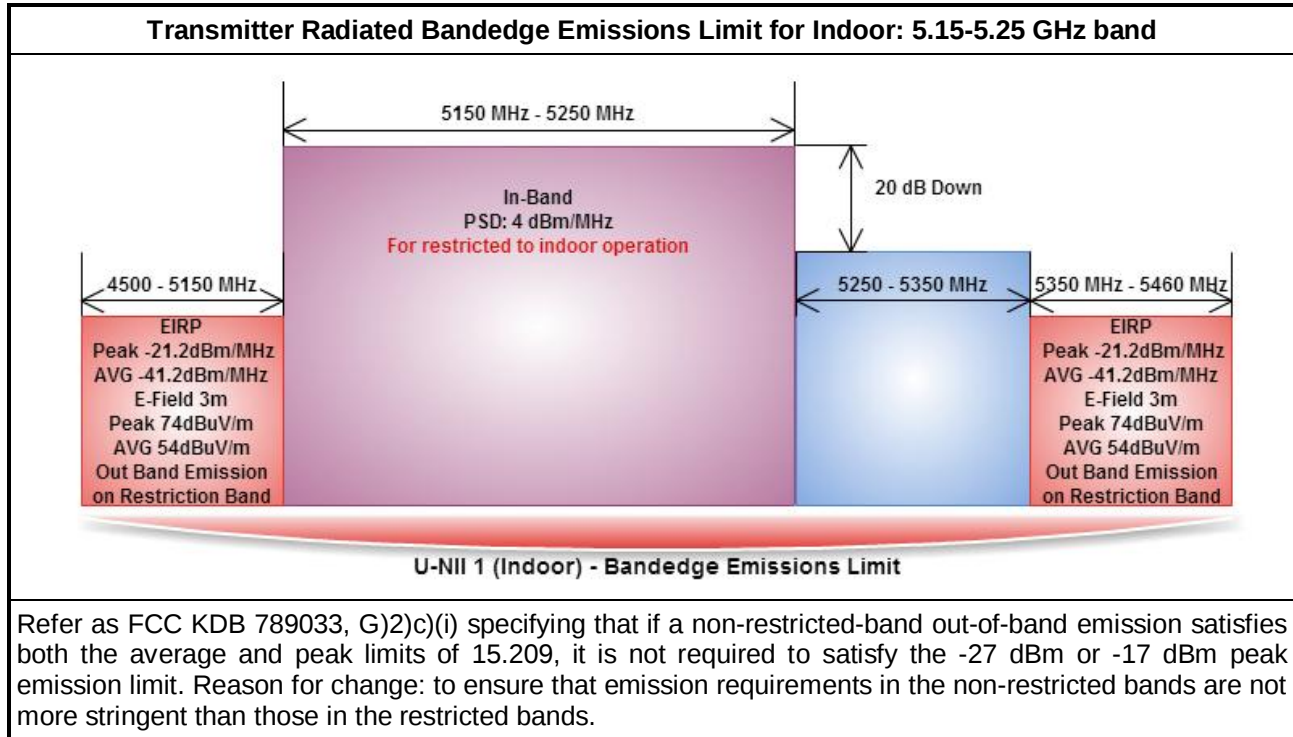
3.5.5 Test Result of Peak Excursion

UNII Peak Excursion Result							
Condition			Peak Excursion (dB)				
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	Limit
11a	1	5180	7.63	7.59	7.66	7.80	13.0
HT20	2	5180	8.18	7.40	7.79	7.48	13.0
HT20	3	5180	8.95	7.69	7.78	8.35	13.0
HT40	2	5190	7.81	7.30	7.68	7.99	13.0
HT40	3	5190	7.38	7.63	7.69	8.37	13.0
Result			Complied				

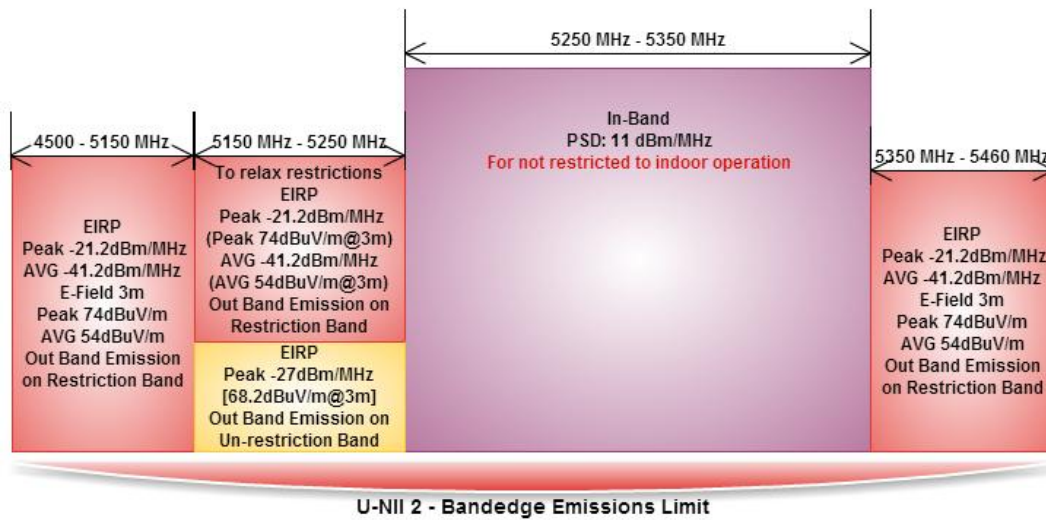


3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit

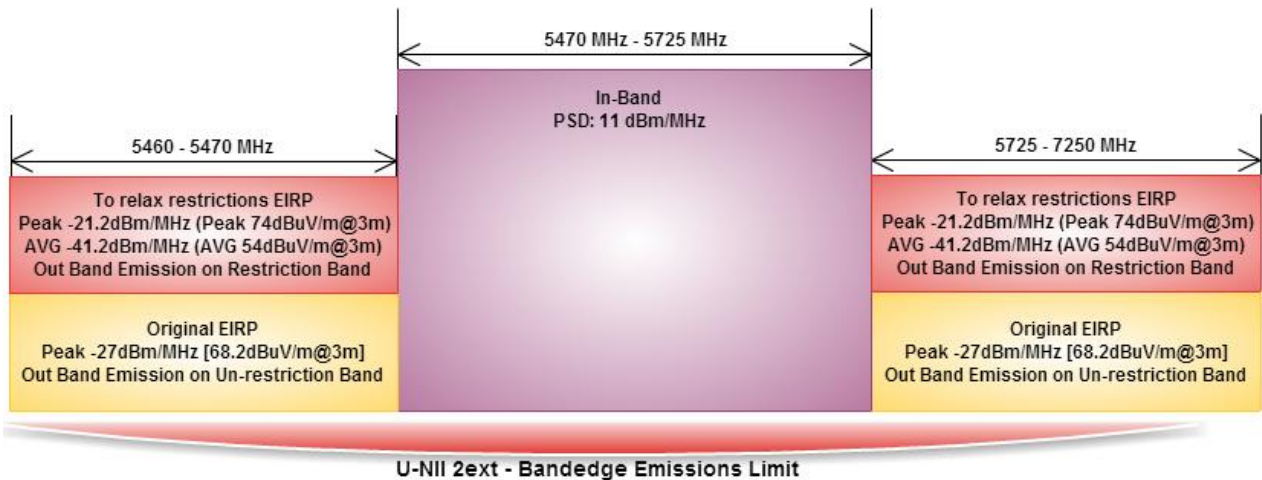


Transmitter Radiated Bandedge Emissions Limit for indoor/outdoor: 5.25-5.35 GHz band



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

Transmitter Radiated Bandedge Emissions Limit: 5.47-5.725 GHz band



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

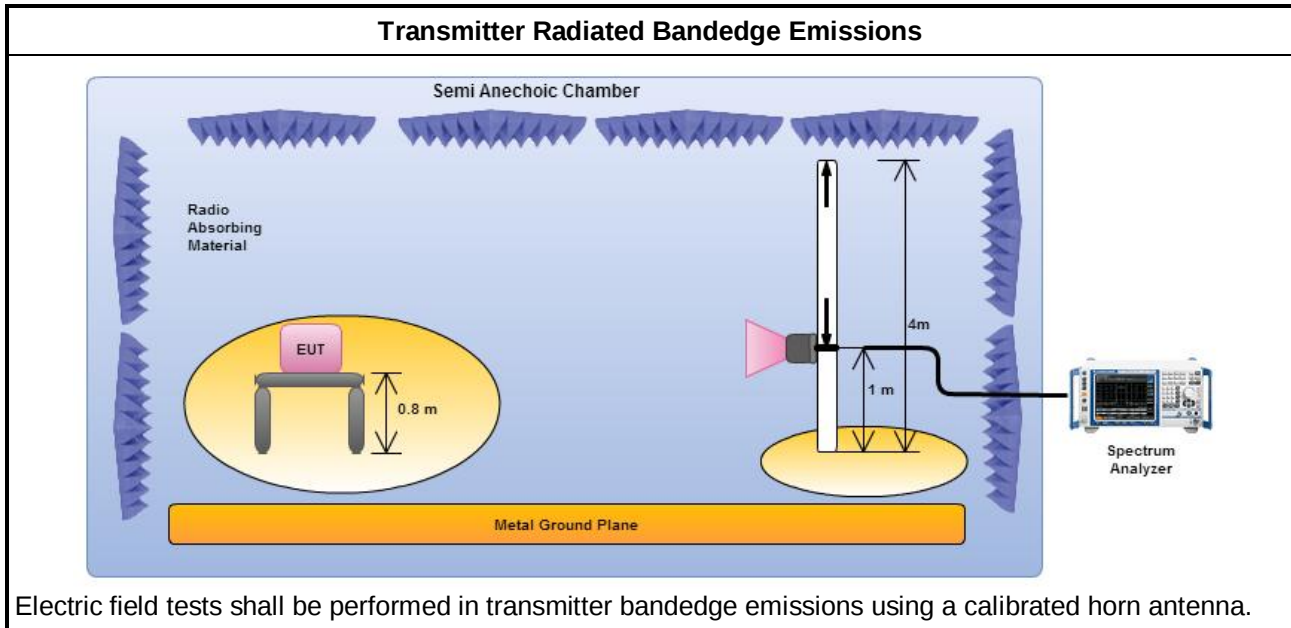
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 1.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
☒	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 6.5 for radiated emissions from above 1 GHz.

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	5127.40	71.39	83.54	5127.40	58.78	63.54	V
HT20	2	5180	1	5119.90	68.24	83.54	5149.00	54.29	63.54	V
HT20	3	5180	1	5126.60	70.08	83.54	5127.80	57.68	63.54	V
HT40	2	5190	1	5147.74	79.41	83.54	5149.94	62.10	63.54	V
HT40	3	5190	1	5148.18	78.77	83.54	5149.99	62.18	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	5320	1	5350.04	74.98	83.54	5372.09	61.00	63.54	V
HT20	2	5320	1	5350.46	75.91	83.54	5350.01	62.32	63.54	V
HT20	3	5320	1	5351.00	79.21	83.54	5350.01	62.48	63.54	V
HT40	2	5310	1	5351.38	77.63	83.54	5350.06	62.29	63.54	V
HT40	3	5310	1	5350.01	77.22	83.54	5350.01	62.42	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	75.43	83.54	5447.44	62.24	63.54	V
11a	1	5700	1	5727.08	76.54	77.84	-	-	-	V
HT20	2	5500	1	5467.60	73.20	83.54	5469.52	60.83	63.54	V
HT20	2	5700	1	5725.16	76.82	77.84	-	-	-	V
HT20	3	5500	1	5469.99	81.67	83.54	5469.99	61.43	63.54	V
HT20	3	5700	1	5726.42	75.93	77.84	-	-	-	V
HT40	2	5510	1	5468.90	81.60	83.54	5469.99	61.32	63.54	V
HT40	2	5670	1	5728.70	75.58	77.84	-	-	-	V
HT40	3	5510	1	5468.20	77.59	83.54	5469.99	62.44	63.54	V
HT40	3	5670	1	5725.40	76.37	77.84	-	-	-	V

Note 1: Measurement worst emissions of receive antenna polarization.

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

3.7.2 Measuring Instruments

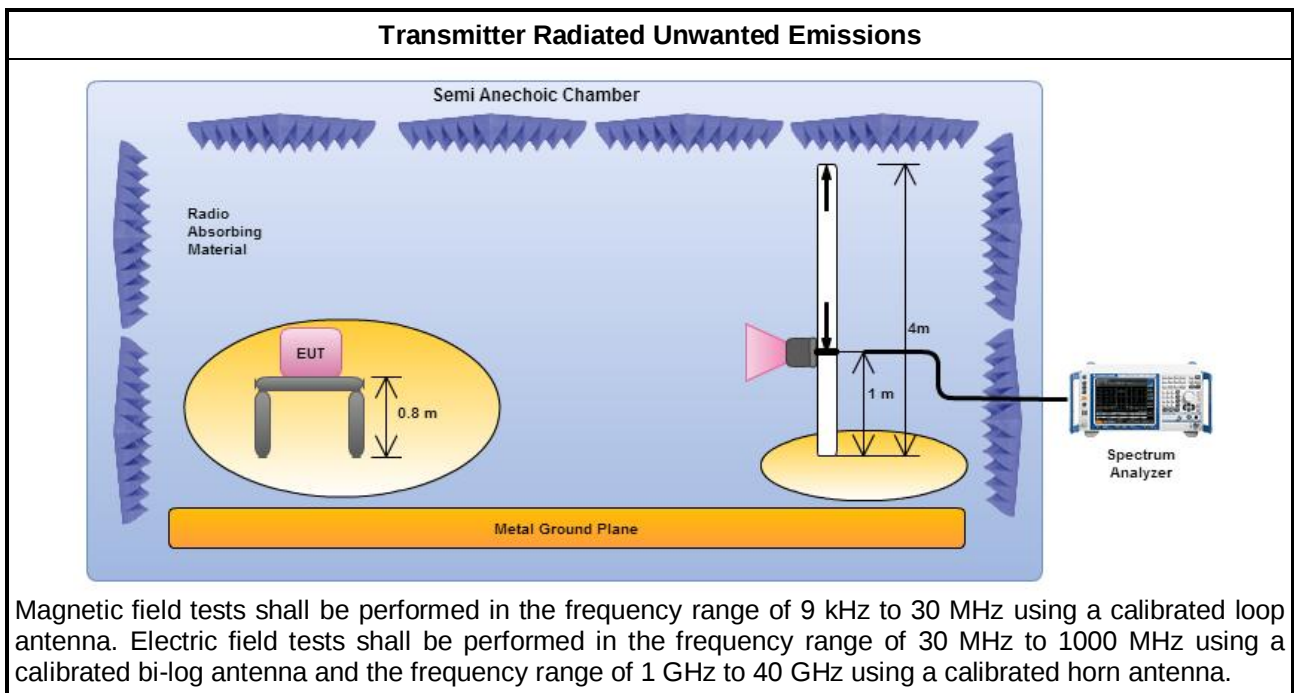
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 1.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
☒	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
☒	Measurements in the frequency range above 18 GHz - 40GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
☒	The average emission levels shall be measured in [duty cycle $\geq$ 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 from below 30 MHz.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

Test Method	
☐	For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause H)3).
☐	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
☐	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
☐	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

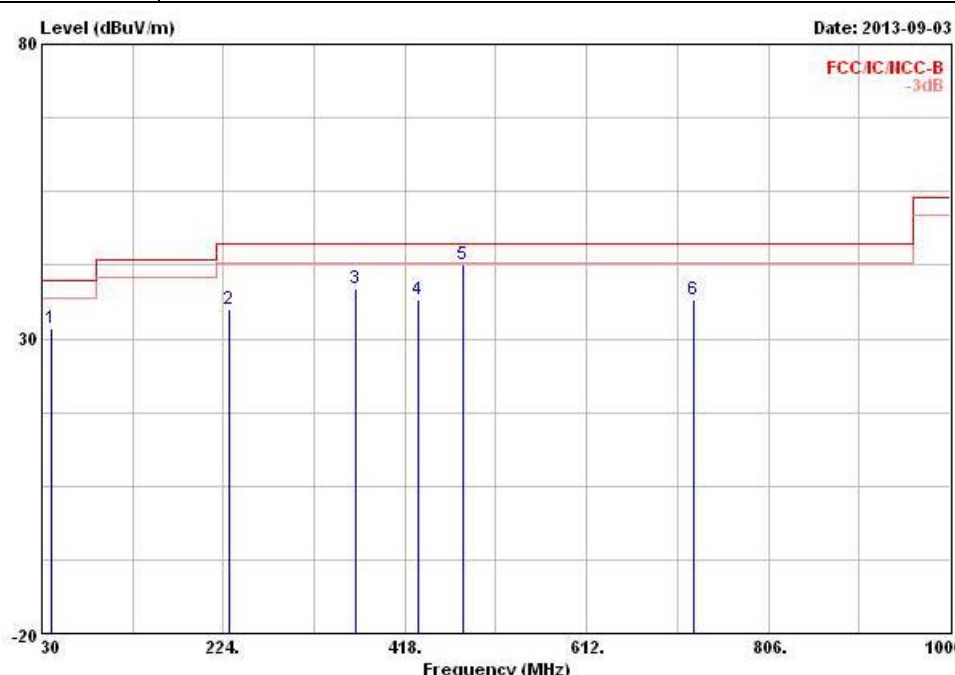
3.7.4 Test Setup



3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

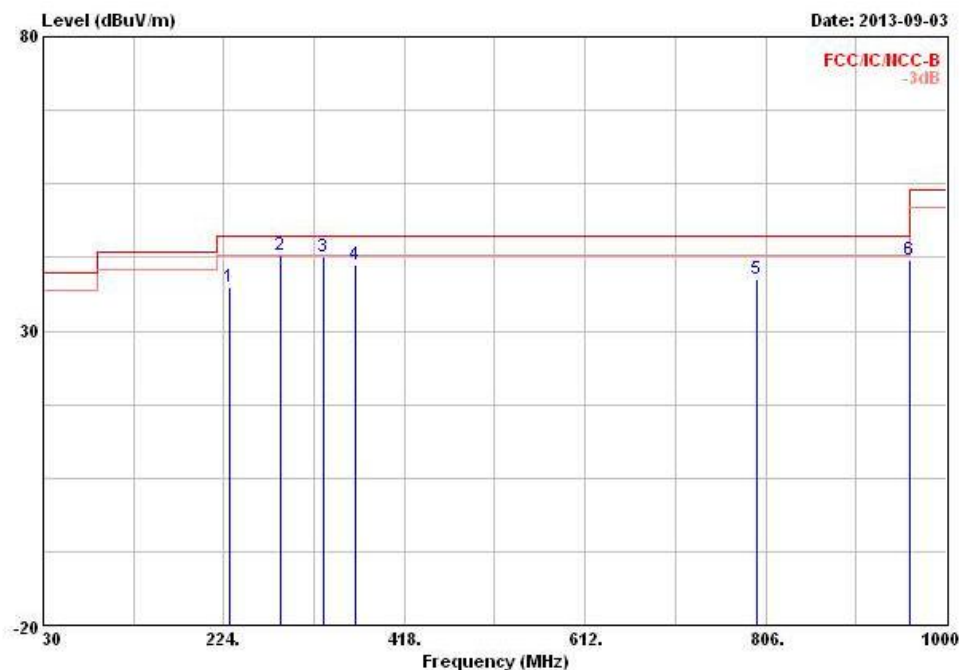
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Transmitter Radiated Unwanted Emissions (Below 1GHz)																																																																																																											
Operating Mode		1				Polarization			V																																																																																																		
Operating Function		EUT with Notebook via USB port test fixture (Open WLAN function)																																																																																																									
Level (dBuV/m) Date: 2013-09-03 FCC/IC/MCC-B -3dB 																																																																																																											
<table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna Level</th><th>Antenna Factor</th><th>Cable Loss</th><th>Preamplifier</th><th>Remark</th><th>Ant Pos</th><th>Table Pos</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>39.700</td><td>31.71</td><td>-8.29</td><td>40.00</td><td>45.22</td><td>13.18</td><td>0.91</td><td>27.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>230.790</td><td>35.06</td><td>-10.94</td><td>46.00</td><td>49.41</td><td>10.33</td><td>2.22</td><td>26.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>365.620</td><td>38.54</td><td>-7.46</td><td>46.00</td><td>48.20</td><td>14.60</td><td>2.84</td><td>27.10</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>431.580</td><td>36.64</td><td>-9.36</td><td>46.00</td><td>44.74</td><td>16.31</td><td>3.10</td><td>27.51</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>479.110</td><td>42.67</td><td>-3.33</td><td>46.00</td><td>49.92</td><td>17.24</td><td>3.27</td><td>27.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>726.460</td><td>36.51</td><td>-9.49</td><td>46.00</td><td>40.86</td><td>19.47</td><td>4.08</td><td>27.90</td><td>Peak</td><td>---</td><td>---</td></tr></table>													Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	1	39.700	31.71	-8.29	40.00	45.22	13.18	0.91	27.60	Peak	---	---	2	230.790	35.06	-10.94	46.00	49.41	10.33	2.22	26.90	Peak	---	---	3	365.620	38.54	-7.46	46.00	48.20	14.60	2.84	27.10	Peak	---	---	4	431.580	36.64	-9.36	46.00	44.74	16.31	3.10	27.51	Peak	---	---	5	479.110	42.67	-3.33	46.00	49.92	17.24	3.27	27.76	Peak	---	---	6	726.460	36.51	-9.49	46.00	40.86	19.47	4.08	27.90	Peak	---	---
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos																																																																																																
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg																																																																																																
1	39.700	31.71	-8.29	40.00	45.22	13.18	0.91	27.60	Peak	---	---																																																																																																
2	230.790	35.06	-10.94	46.00	49.41	10.33	2.22	26.90	Peak	---	---																																																																																																
3	365.620	38.54	-7.46	46.00	48.20	14.60	2.84	27.10	Peak	---	---																																																																																																
4	431.580	36.64	-9.36	46.00	44.74	16.31	3.10	27.51	Peak	---	---																																																																																																
5	479.110	42.67	-3.33	46.00	49.92	17.24	3.27	27.76	Peak	---	---																																																																																																
6	726.460	36.51	-9.49	46.00	40.86	19.47	4.08	27.90	Peak	---	---																																																																																																
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)																																																																																																											

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	EUT with Notebook via USB port test fixture (Open WLAN function)		

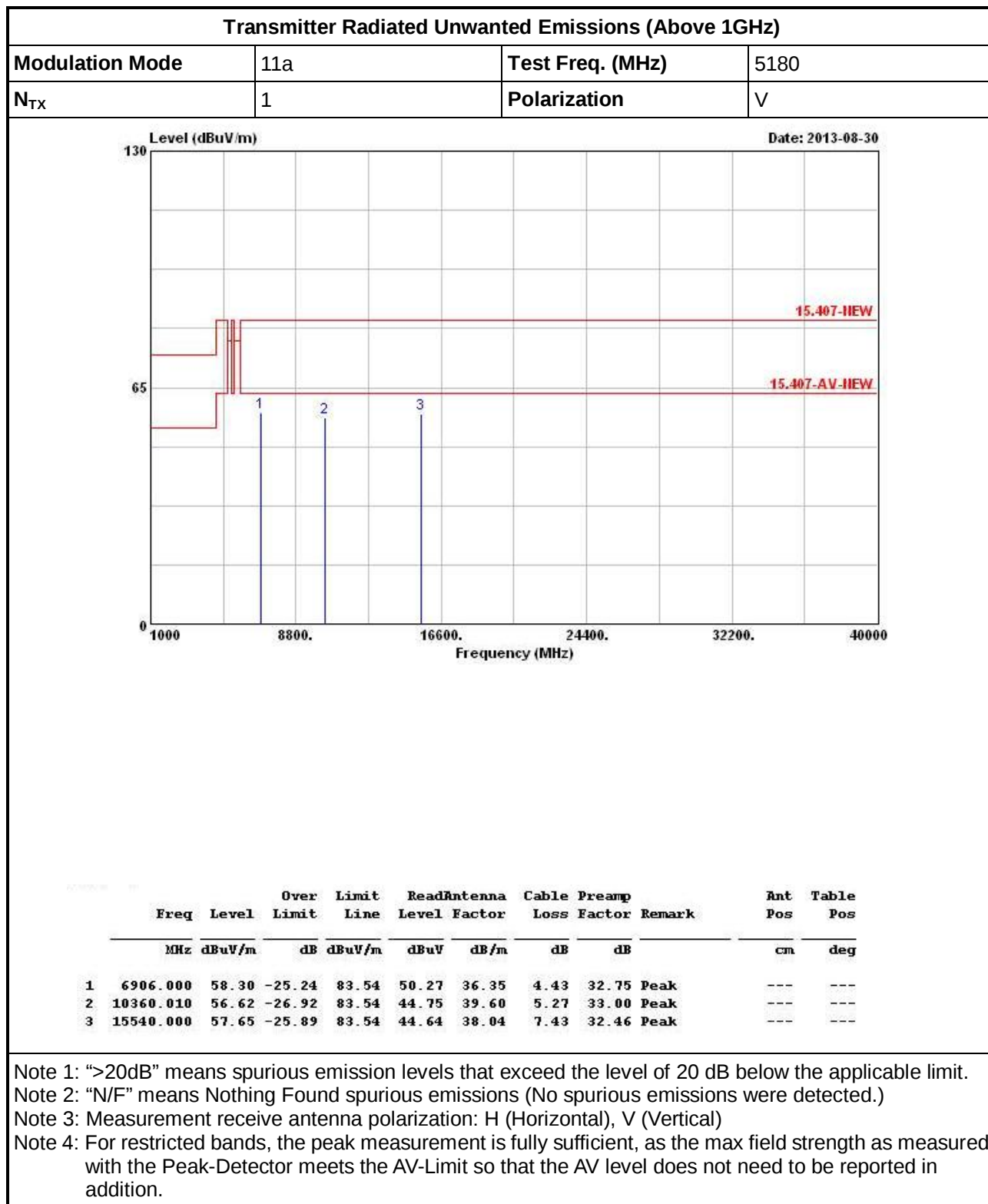


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	230.790	37.54	-8.46	46.00	51.89	10.33	2.22	26.90	QP	---	---
2	284.140	42.80	-3.20	46.00	54.09	12.92	2.49	26.70	Peak	---	---
3	330.700	42.69	-3.31	46.00	53.15	13.69	2.71	26.86	Peak	---	---
4	365.620	41.35	-4.65	46.00	51.01	14.60	2.84	27.10	Peak	---	---
5	797.270	38.69	-7.31	46.00	42.35	19.84	4.30	27.80	Peak	---	---
6	960.230	42.04	-11.96	54.00	43.67	20.93	4.82	27.38	Peak	---	---

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

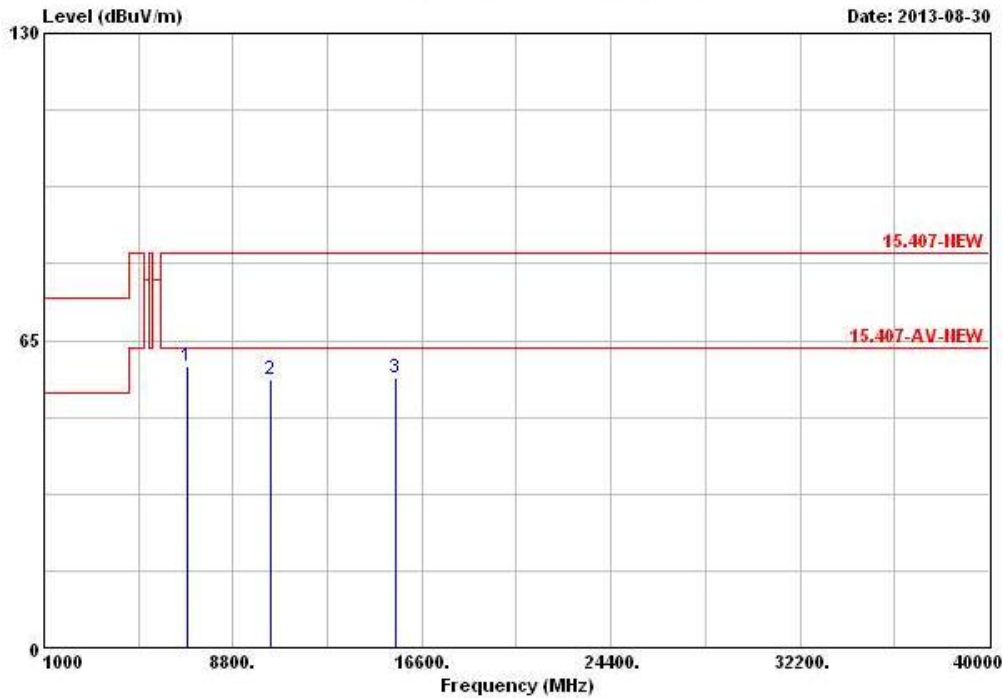
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

3.7.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5150-5250MHz


Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	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	6906.000	59.46	-24.08	83.54	51.43	36.35	4.43	32.75 Peak	---	---
2	10361.000	56.80	-26.74	83.54	44.93	39.60	5.27	33.00 Peak	---	---
3	15540.000	57.00	-26.54	83.54	43.99	38.04	7.43	32.46 Peak	---	---

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

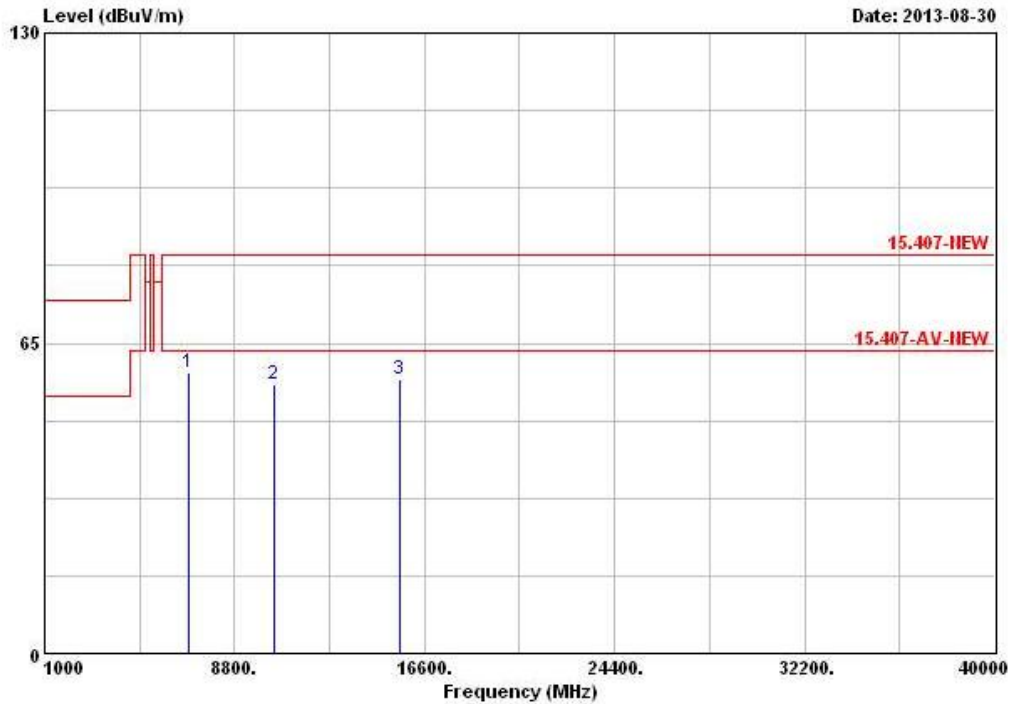
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	6930.000	58.97	-24.57	83.54	50.88	36.43	4.42	32.76	Peak	---
2	10400.100	56.44	-27.10	83.54	44.53	39.60	5.26	32.95	Peak	---
3	15600.000	57.31	-26.23	83.54	44.42	37.91	7.47	32.49	Peak	---

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

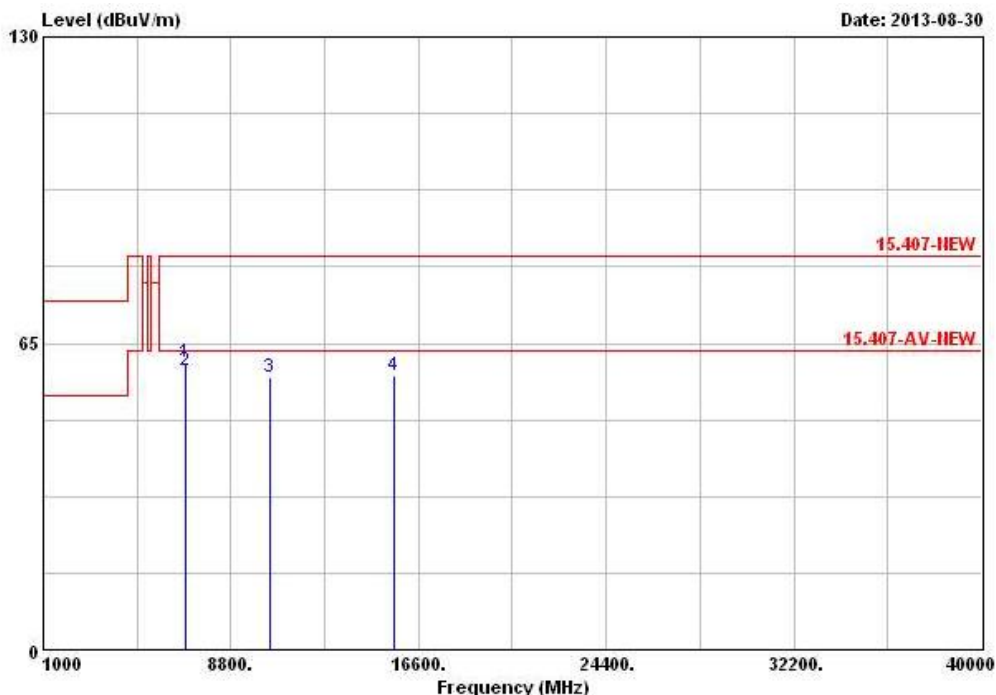
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over Limit	Limit Line	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	6930.000	60.96	-22.58	83.54	52.87	36.43	4.42	32.76	Peak	---	---
2	6930.000	59.32	-4.22	63.54	51.23	36.43	4.42	32.76	Average	---	---
3	10400.000	57.64	-25.90	83.54	45.73	39.60	5.26	32.95	Peak	---	---
4	15600.000	58.30	-25.24	83.54	45.41	37.91	7.47	32.49	Peak	---	---

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

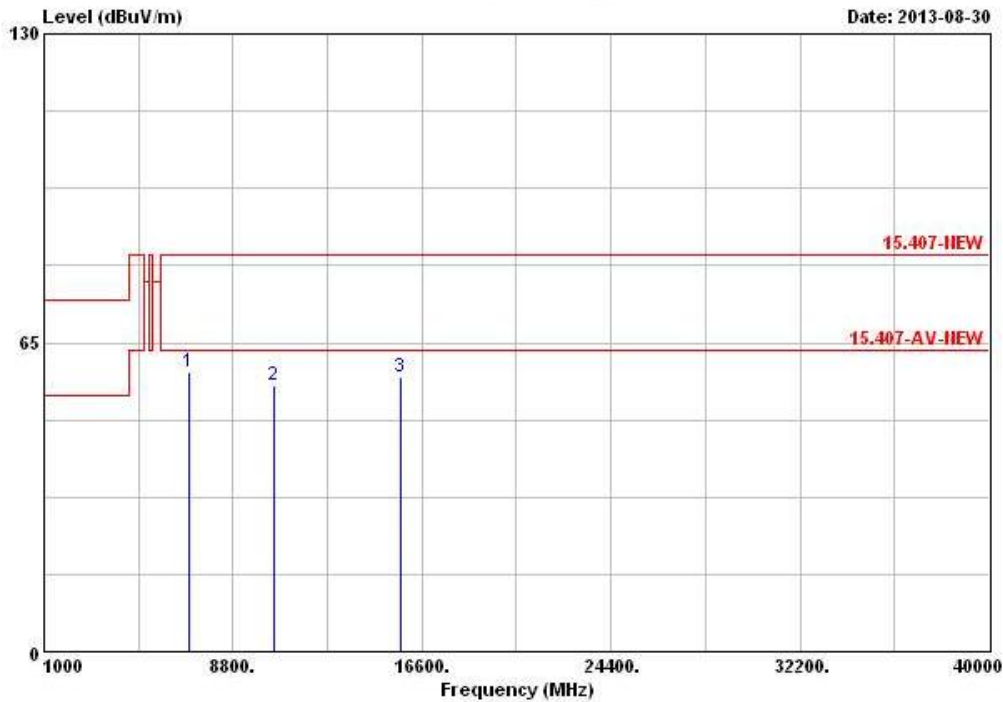
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over Limit	Limit Line	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	6984.000	58.82	-24.72	83.54	50.63	36.56	4.40	32.77	Peak	---	---
2	10480.000	56.00	-27.54	83.54	44.06	39.60	5.23	32.89	Peak	---	---
3	15720.000	57.61	-25.93	83.54	44.85	37.70	7.58	32.52	Peak	---	---

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

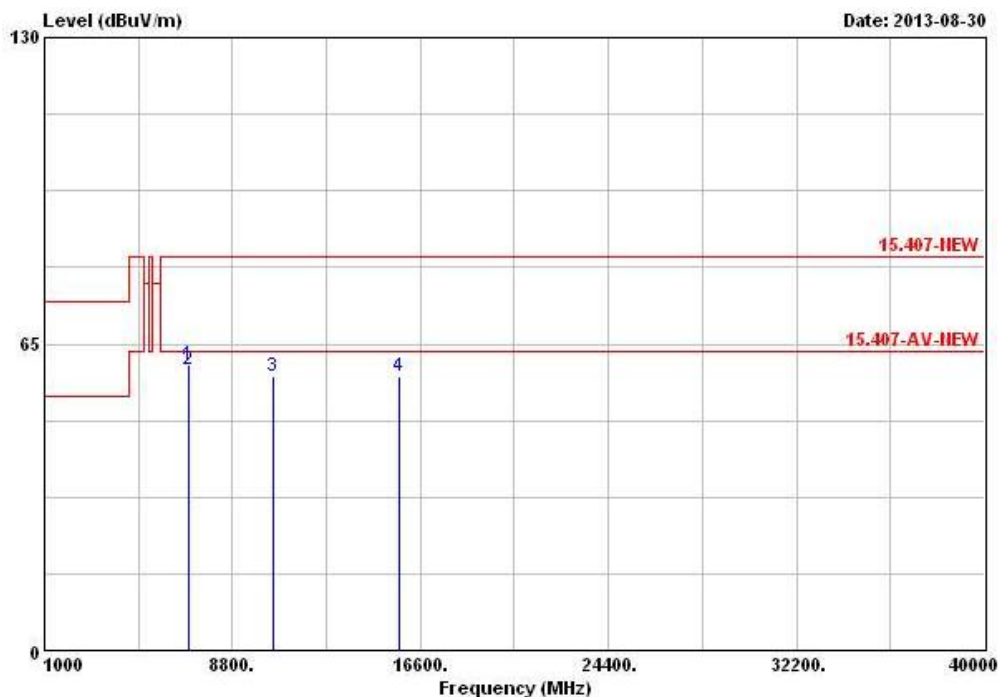
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over Limit	Limit Line	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	6984.000	60.56	-22.98	83.54	52.37	36.56	4.40	32.77	Peak	---	---
2	6984.000	59.40	-4.14	63.54	51.21	36.56	4.40	32.77	Average	---	---
3	10480.000	58.16	-25.38	83.54	46.22	39.60	5.23	32.89	Peak	---	---
4	15719.380	58.14	-25.40	83.54	45.38	37.70	7.58	32.52	Peak	---	---

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

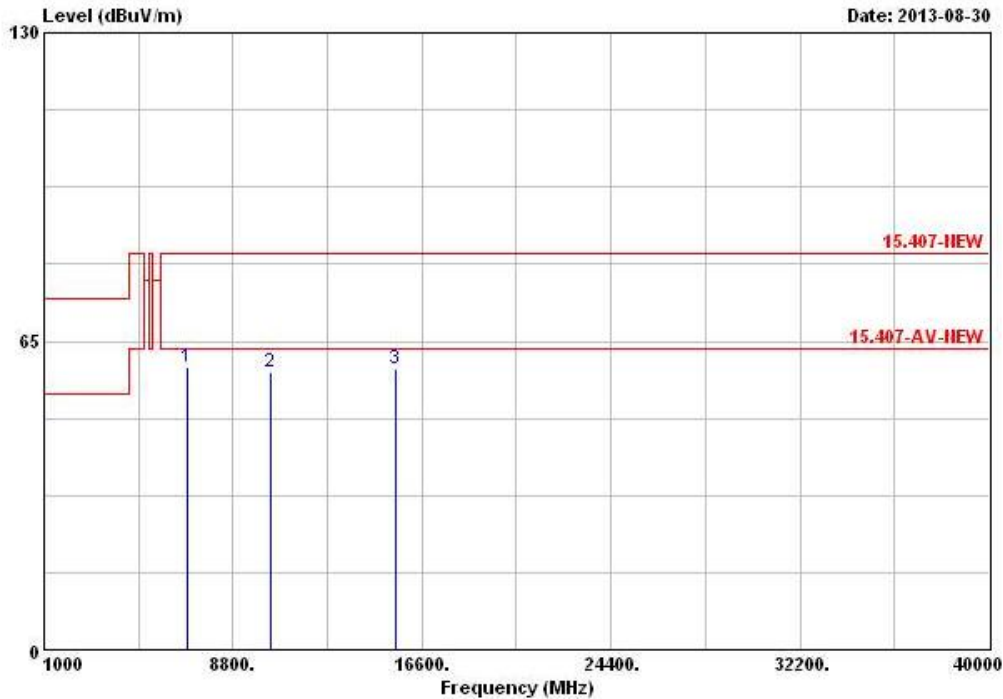
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N_{TX}	2	Polarization	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	6906.000	59.62	-23.92	83.54	51.59	36.35	4.43	32.75	Peak	---	---
2	10359.380	58.58	-24.96	83.54	46.71	39.60	5.27	33.00	Peak	---	---
3	15540.000	59.36	-24.18	83.54	46.35	38.04	7.43	32.46	Peak	---	---

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

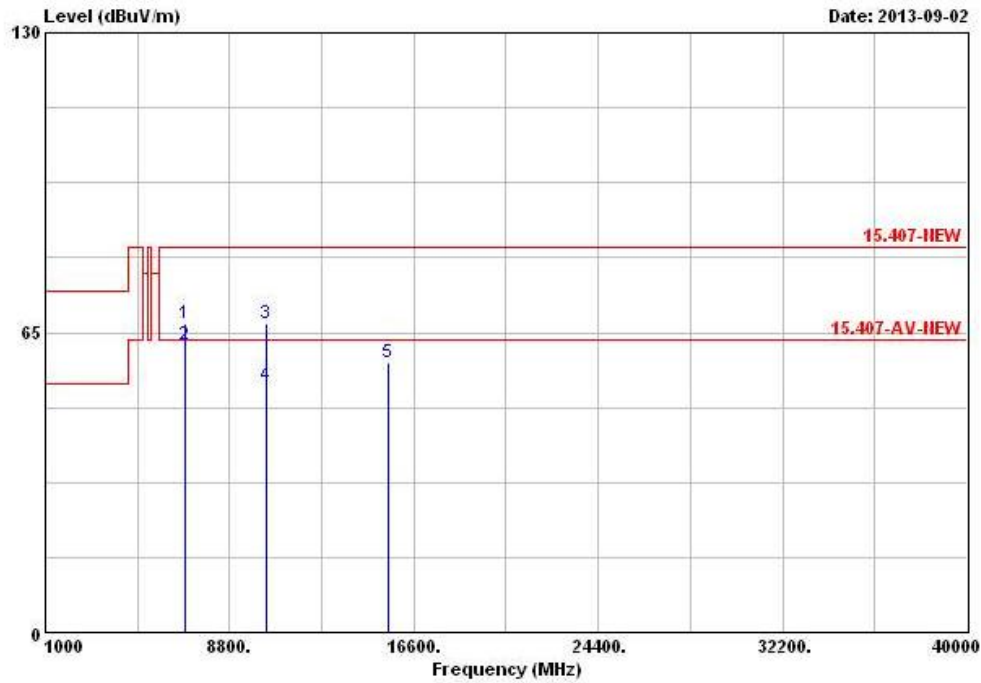
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	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	6906.000	66.94	-16.60	83.54	58.91	36.35	4.43	32.75	Peak	---	---
2	@ 6906.000	62.41	-1.13	63.54	54.38	36.35	4.43	32.75	Average	---	---
3	10360.000	66.85	-16.69	83.54	54.98	39.60	5.27	33.00	Peak	---	---
4	10360.000	53.69	-9.85	63.54	41.82	39.60	5.27	33.00	Average	---	---
5	15540.000	58.47	-25.07	83.54	45.46	38.04	7.43	32.46	Peak	---	---

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

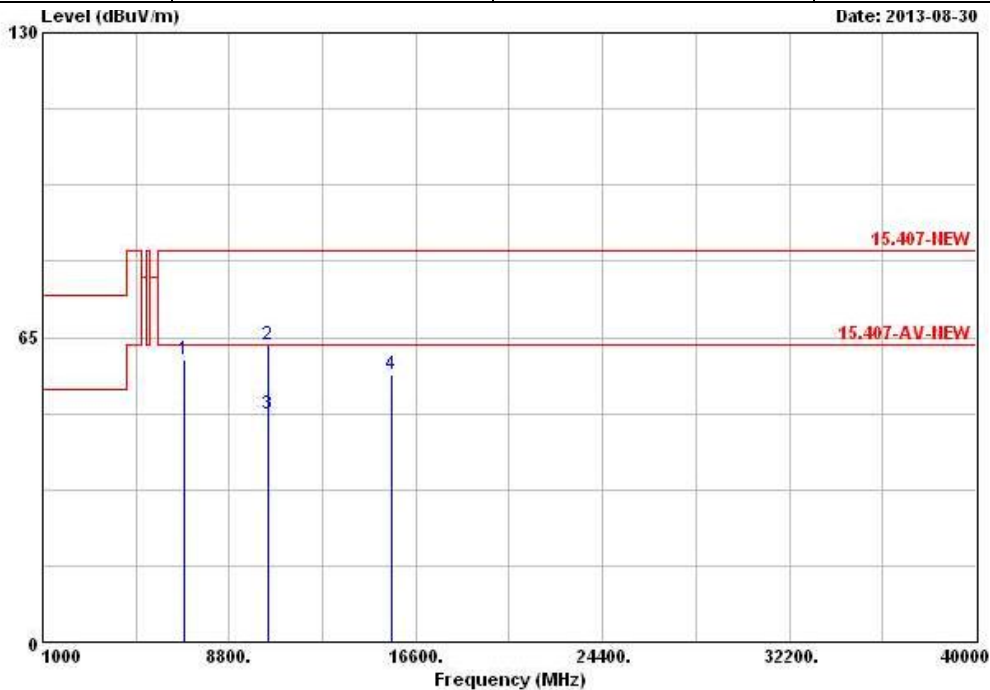
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	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	6930.000	60.16	-23.38	83.54	52.07	36.43	4.42	32.76	Peak	---	---
2	10400.000	63.31	-20.23	83.54	51.40	39.60	5.26	32.95	Peak	---	---
3	10400.000	48.79	-14.75	63.54	36.88	39.60	5.26	32.95	Average	---	---
4	15600.000	57.06	-26.48	83.54	44.17	37.91	7.47	32.49	Peak	---	---

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

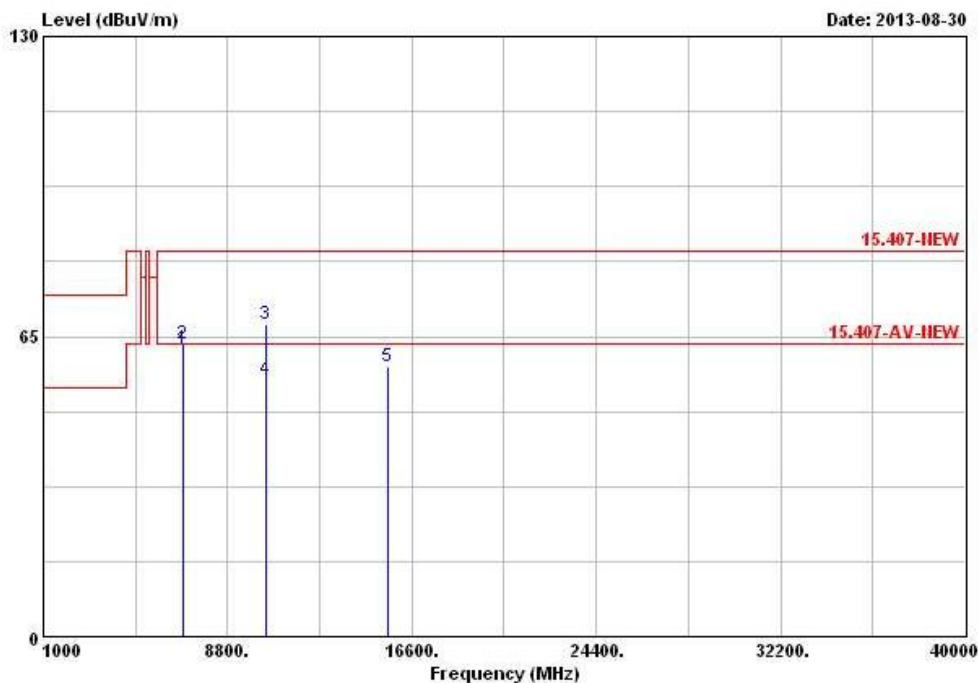
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	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	6930.000	62.46	-1.08	63.54	54.37	36.43	4.42	32.76	Average	---	---
2	6930.000	63.56	-19.98	83.54	55.47	36.43	4.42	32.76	Peak	---	---
3	10400.000	67.59	-15.95	83.54	55.68	39.60	5.26	32.95	Peak	---	---
4	10400.000	55.67	-7.87	63.54	43.76	39.60	5.26	32.95	Average	---	---
5	15560.380	58.43	-25.11	83.54	45.46	38.01	7.43	32.47	Peak	---	---

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

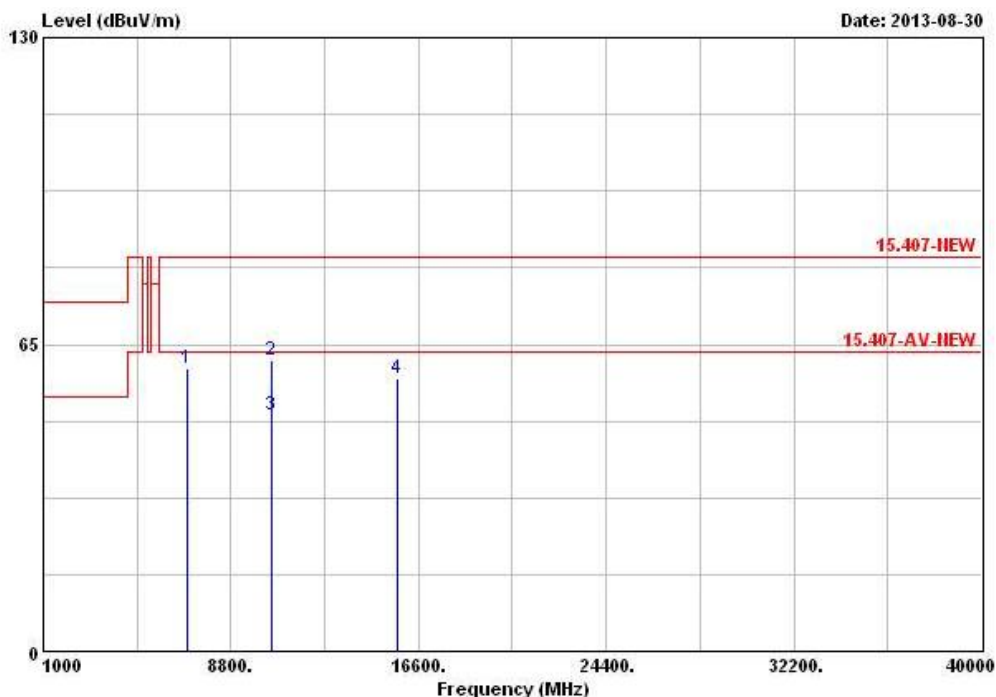
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	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	6984.000	59.99	-23.55	83.54	51.80	36.56	4.40	32.77	Peak	---	---
2	10480.000	61.73	-21.81	83.54	49.79	39.60	5.23	32.89	Peak	---	---
3	10480.000	50.03	-13.51	63.54	38.09	39.60	5.23	32.89	Average	---	---
4	15720.000	57.70	-25.84	83.54	44.94	37.70	7.58	32.52	Peak	---	---

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

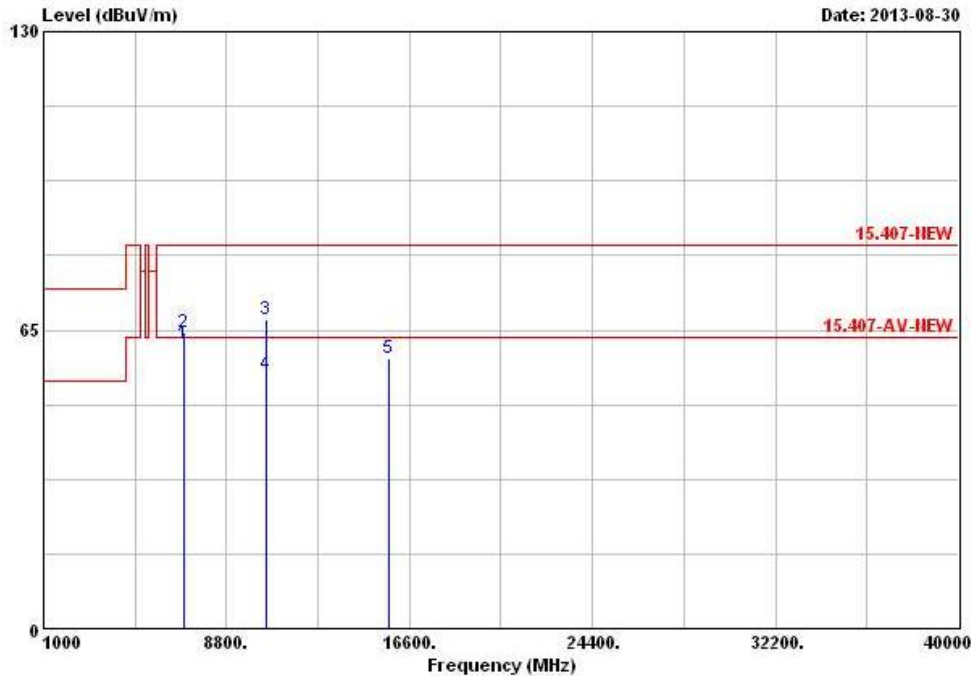
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N _{TX}	2	Polarization	H

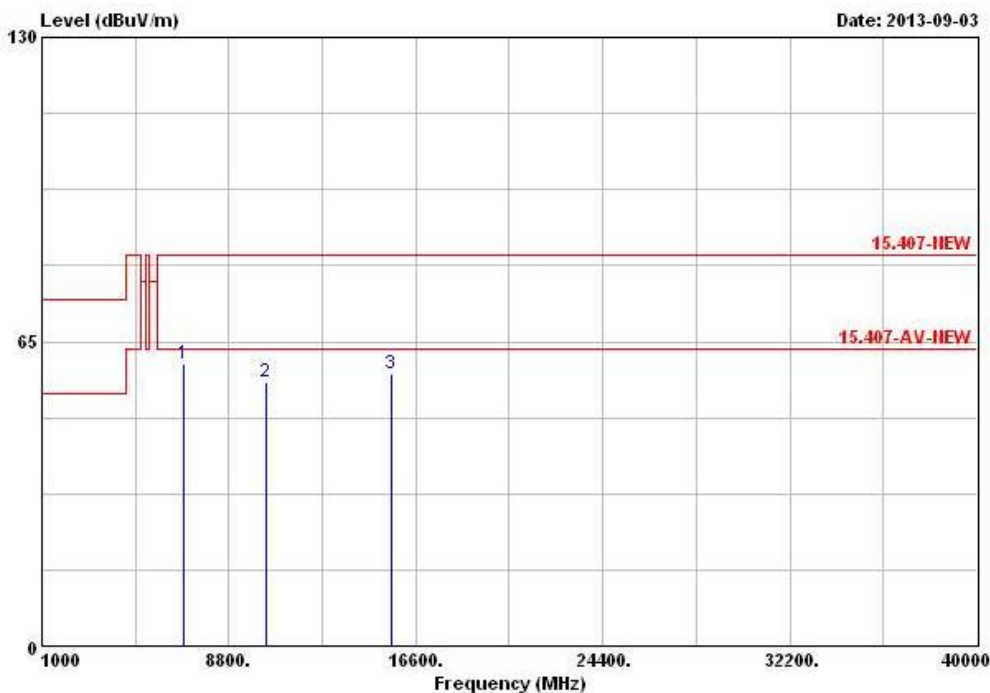


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6986.560	62.17	-1.37	63.54	53.99	36.56	4.39	32.77	Average	---	---
2	6986.560	64.41	-19.13	83.54	56.23	36.56	4.39	32.77	Peak	---	---
3	10480.000	67.17	-16.37	83.54	55.23	39.60	5.23	32.89	Peak	---	---
4	10480.000	55.39	-8.15	63.54	43.45	39.60	5.23	32.89	Average	---	---
5	15720.000	58.97	-24.57	83.54	46.21	37.70	7.58	32.52	Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
N_{TX}	2	Polarization	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	6918.000	60.25	-23.29	83.54	52.19	36.39	4.42	32.75 Peak	---	---
2	10380.000	56.52	-27.02	83.54	44.63	39.60	5.26	32.97 Peak	---	---
3	15570.000	58.10	-25.44	83.54	45.12	37.98	7.47	32.47 Peak	---	---

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

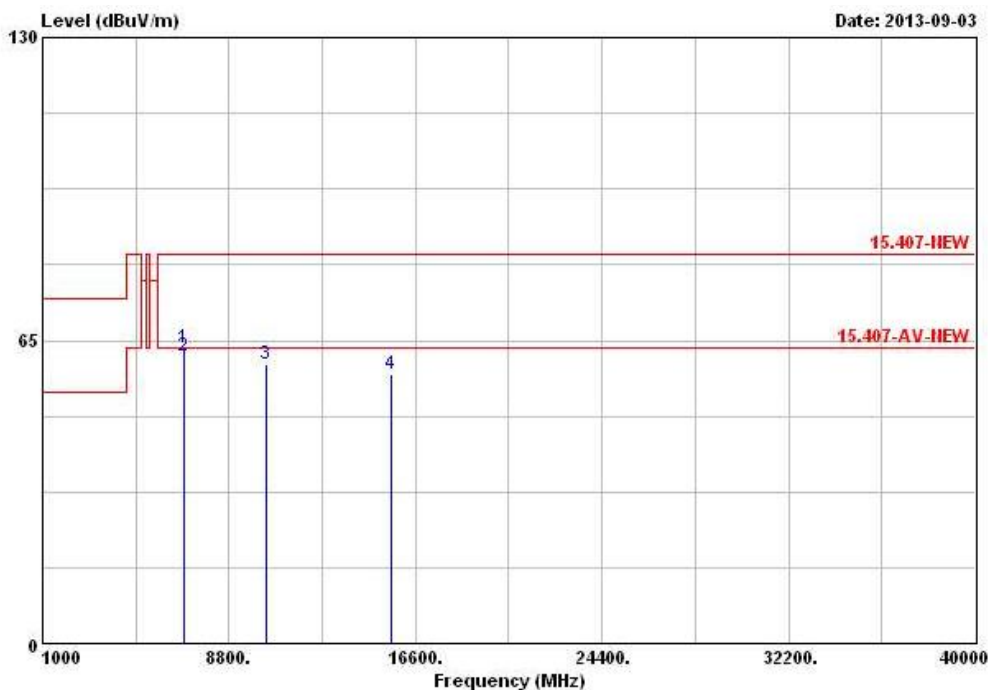
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	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	6906.000	63.40	-20.14	83.54	55.37	36.35	4.43	32.75	Peak	---	---
2	6906.380	61.58	-1.96	63.54	53.55	36.35	4.43	32.75	Average	---	---
3	10380.380	59.79	-23.75	83.54	47.90	39.60	5.26	32.97	Peak	---	---
4	15570.000	57.75	-25.79	83.54	44.77	37.98	7.47	32.47	Peak	---	---

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

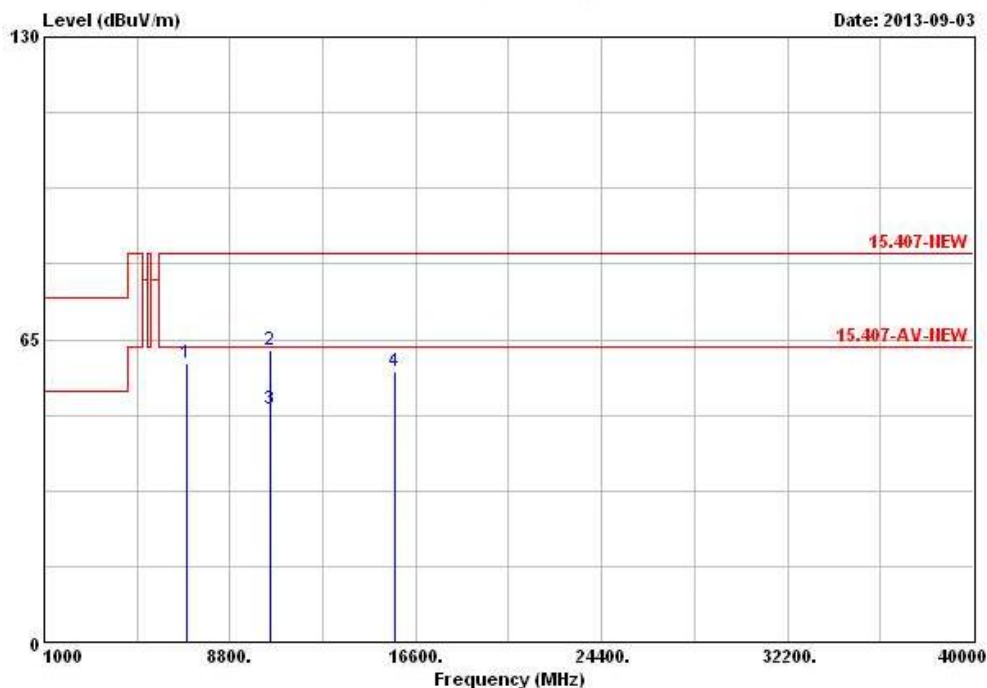
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	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	6972.000	59.92	-23.62	83.54	51.76	36.52	4.40	32.76	Peak	---	---
2	10460.000	62.87	-20.67	83.54	50.95	39.60	5.23	32.91	Peak	---	---
3	10460.000	50.01	-13.53	63.54	38.09	39.60	5.23	32.91	Average	---	---
4	15690.380	57.96	-25.58	83.54	45.13	37.76	7.58	32.51	Peak	---	---

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

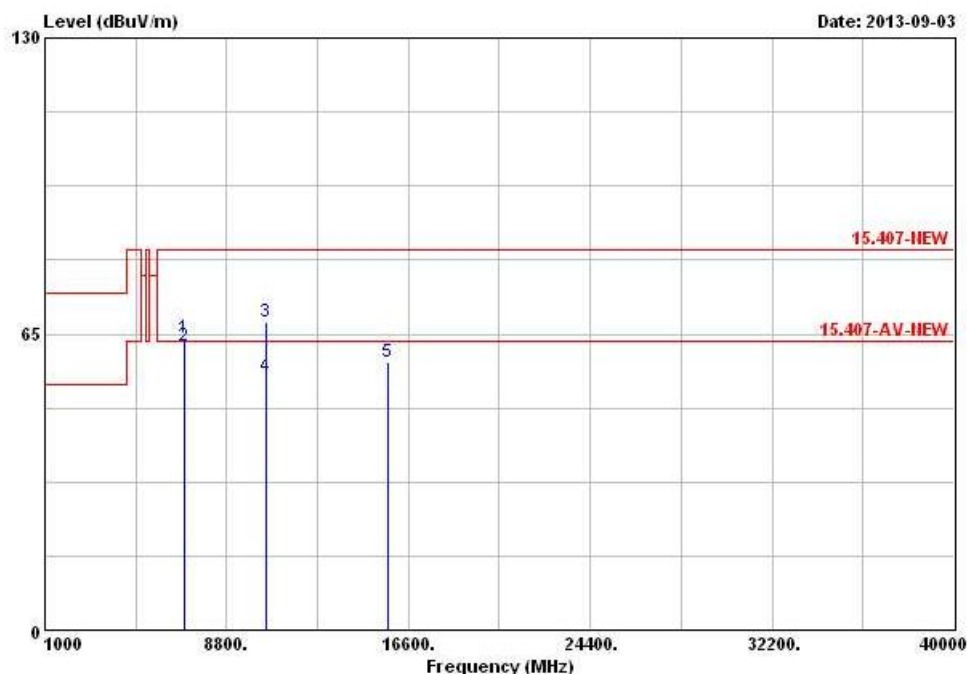
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N _{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6972.000	64.11	-19.43	83.54	55.95	36.52	4.40	32.76	Peak	---	---
2	6972.000	62.53	-1.01	63.54	54.37	36.52	4.40	32.76	Average	---	---
3	10460.000	67.52	-16.02	83.54	55.60	39.60	5.23	32.91	Peak	---	---
4	10460.000	55.68	-7.86	63.54	43.76	39.60	5.23	32.91	Average	---	---
5	15690.620	58.96	-24.58	83.54	46.13	37.76	7.58	32.51	Peak	---	---

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

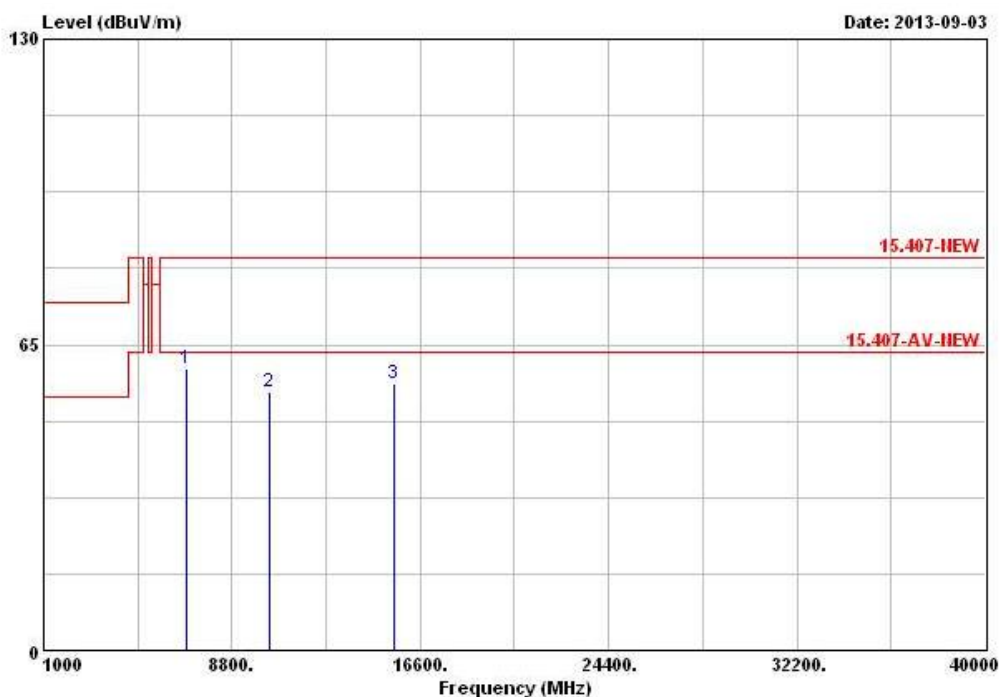
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	3	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	6906.000	59.78	-23.76	83.54	51.75	36.35	4.43	32.75	Peak	---	---
2	10360.000	55.07	-28.47	83.54	43.20	39.60	5.27	33.00	Peak	---	---
3	15540.000	56.67	-26.87	83.54	43.66	38.04	7.43	32.46	Peak	---	---

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

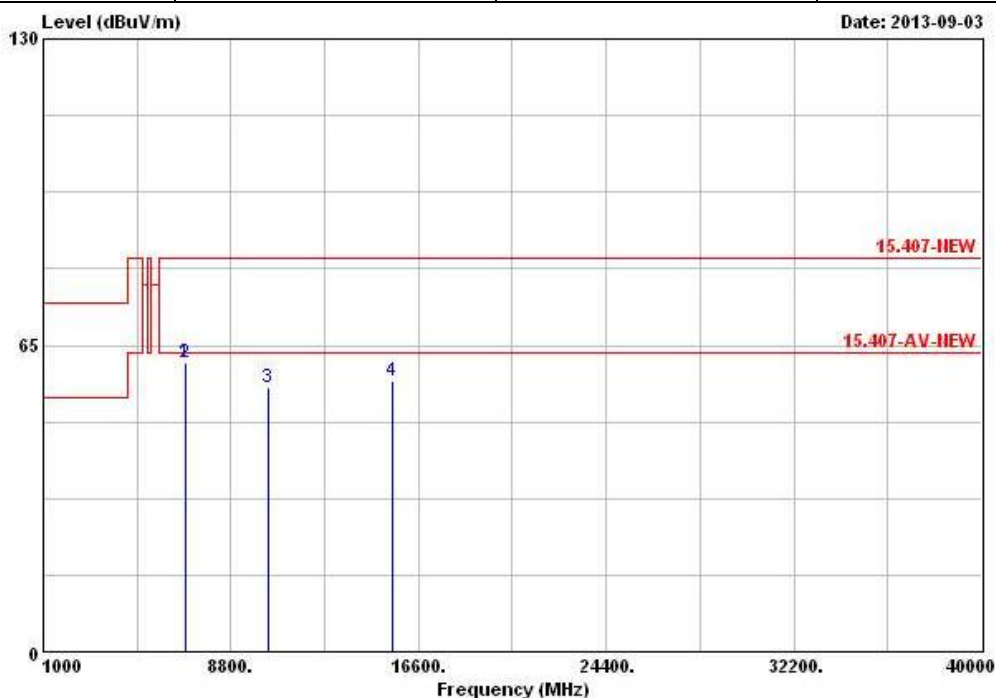
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
N _{TX}	3	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	6906.000	61.39	-22.15	83.54	53.36	36.35	4.43	32.75 Peak	---	---
2 @	6906.000	61.25	-2.29	63.54	53.22	36.35	4.43	32.75 Average	---	---
3	10360.380	55.86	-27.68	83.54	43.99	39.60	5.27	33.00 Peak	---	---
4	15540.380	57.30	-26.24	83.54	44.29	38.04	7.43	32.46 Peak	---	---

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

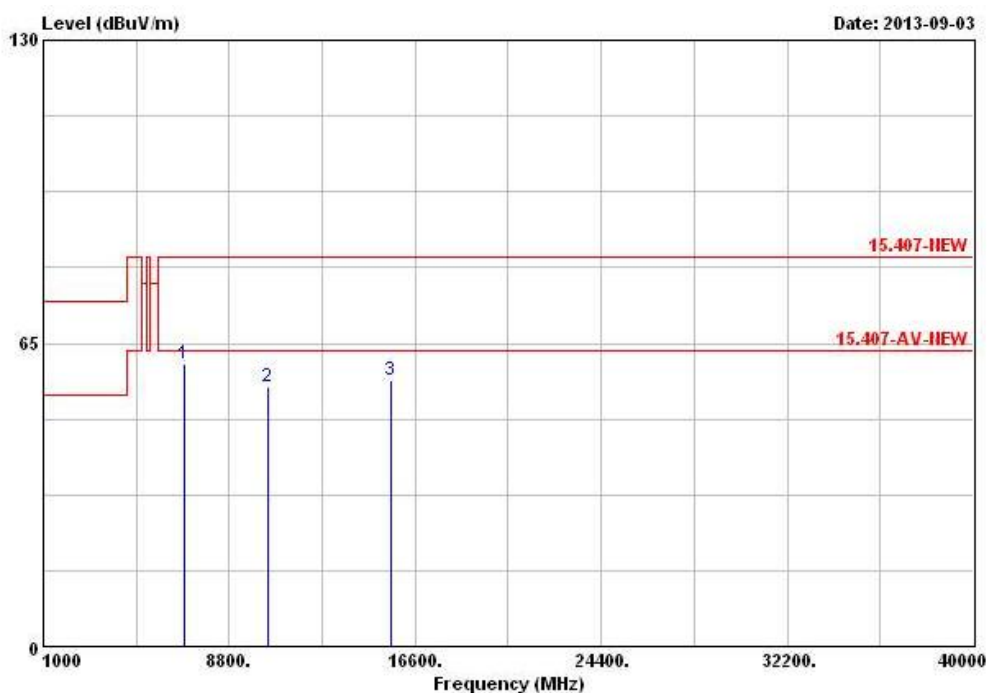
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	3	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	6930.000	60.53	-23.01	83.54	52.44	36.43	4.42	32.76	Peak	---	---
2	10400.000	55.66	-27.88	83.54	43.75	39.60	5.26	32.95	Peak	---	---
3	15600.000	57.14	-26.40	83.54	44.25	37.91	7.47	32.49	Peak	---	---

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

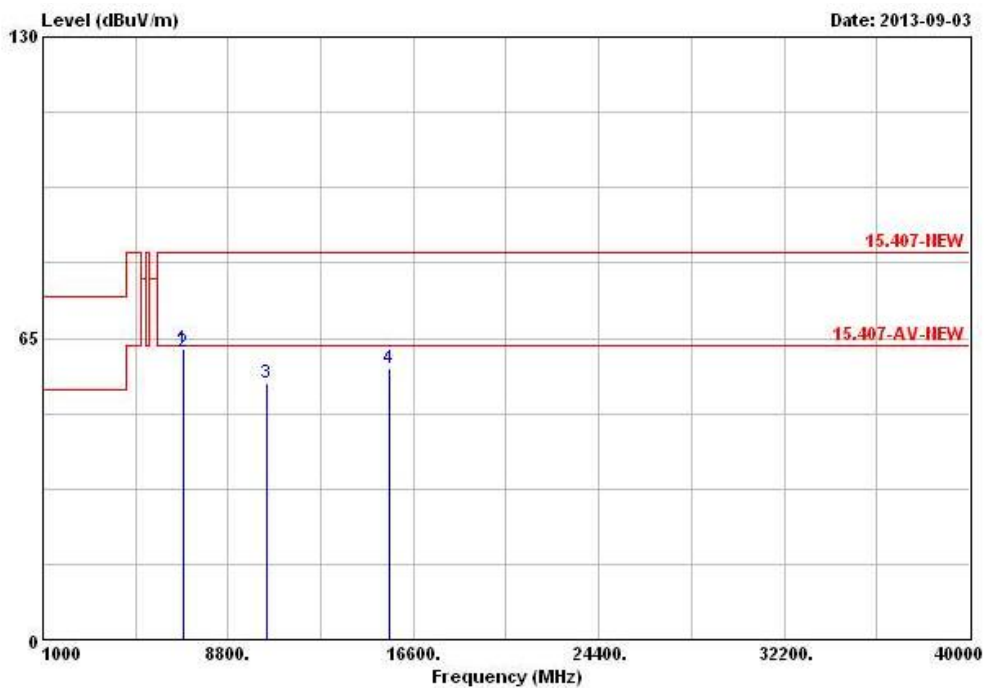
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5200
N_{TX}	3	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	6930.000	62.67	-20.87	83.54	54.58	36.43	4.42	32.76	Peak	---	---
2 @	6930.000	61.99	-1.55	63.54	53.90	36.43	4.42	32.76	Average	---	---
3	10400.000	55.22	-28.32	83.54	43.31	39.60	5.26	32.95	Peak	---	---
4	15599.380	58.46	-25.08	83.54	45.57	37.91	7.47	32.49	Peak	---	---

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

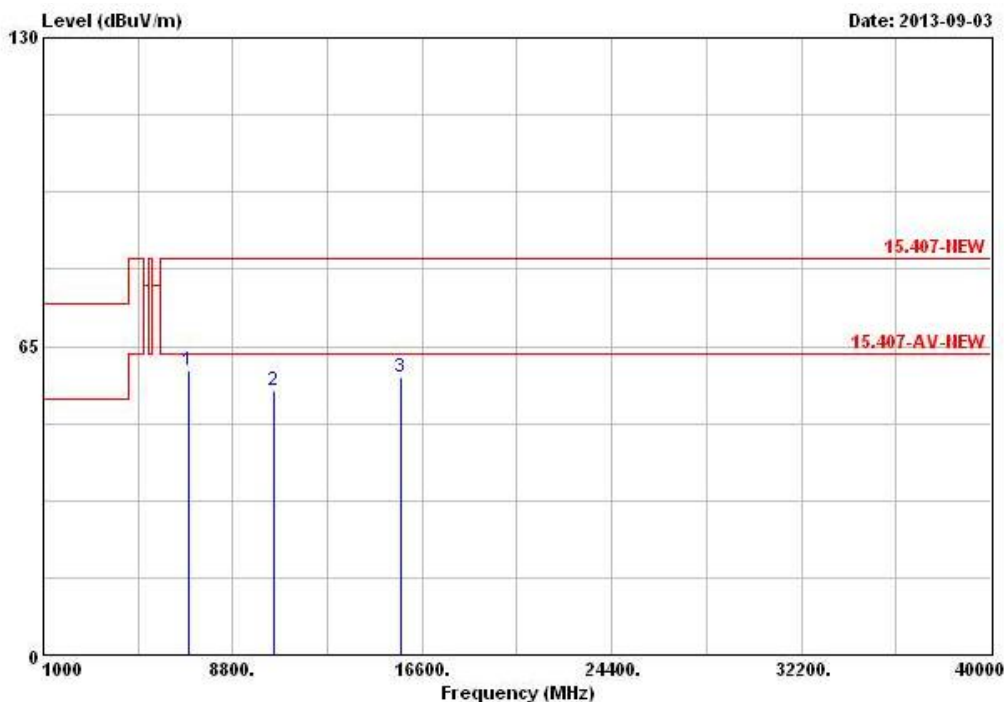
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N_{TX}	3	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	6984.000	59.90	-23.64	83.54	51.71	36.56	4.40	32.77 Peak	---	---
2	10479.380	55.62	-27.92	83.54	43.68	39.60	5.23	32.89 Peak	---	---
3	15720.000	58.51	-25.03	83.54	45.75	37.70	7.58	32.52 Peak	---	---

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

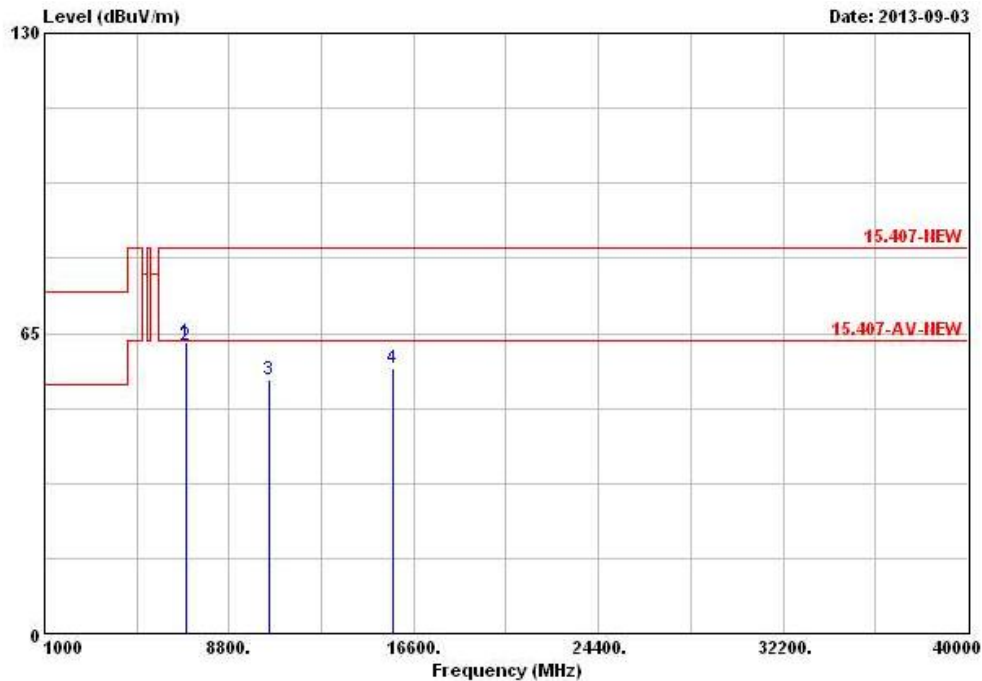
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
N_{TX}	3	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	6984.000	63.16	-20.38	83.54	54.97	36.56	4.40	32.77	Peak	---	---
2	6984.000	62.32	-1.22	63.54	54.13	36.56	4.40	32.77	Average	---	---
3	10480.000	55.11	-28.43	83.54	43.17	39.60	5.23	32.89	Peak	---	---
4	15720.000	57.57	-25.97	83.54	44.81	37.70	7.58	32.52	Peak	---	---

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

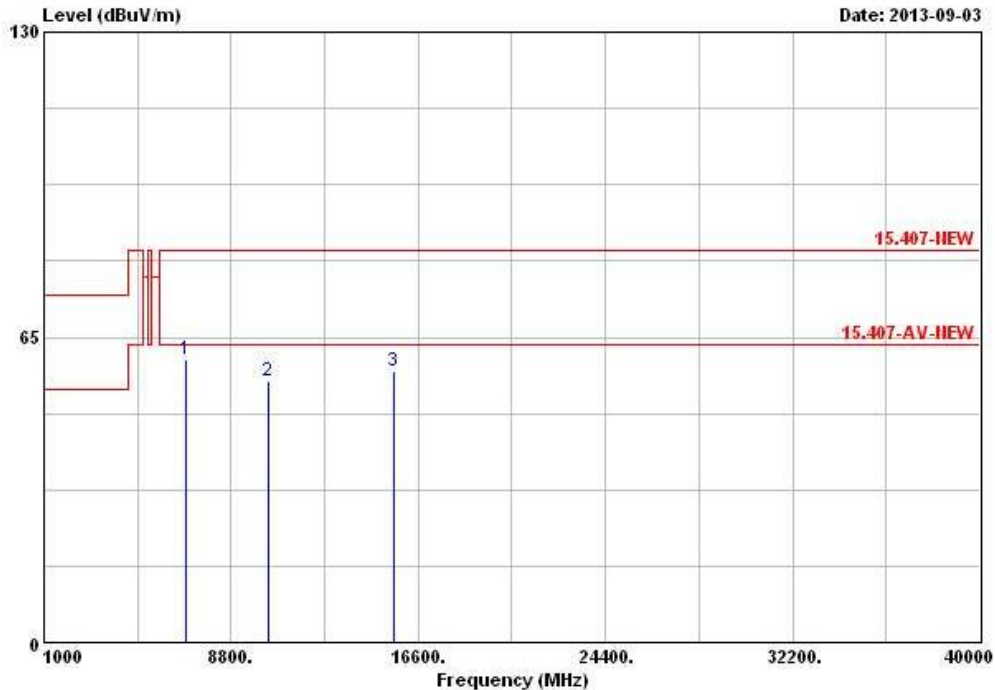
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
N_{TX}	3	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	6918.000	60.15	-23.39	83.54	52.09	36.39	4.42	32.75	Peak	---	---
2	10380.000	55.61	-27.93	83.54	43.72	39.60	5.26	32.97	Peak	---	---
3	15570.620	57.72	-25.82	83.54	44.74	37.98	7.47	32.47	Peak	---	---

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

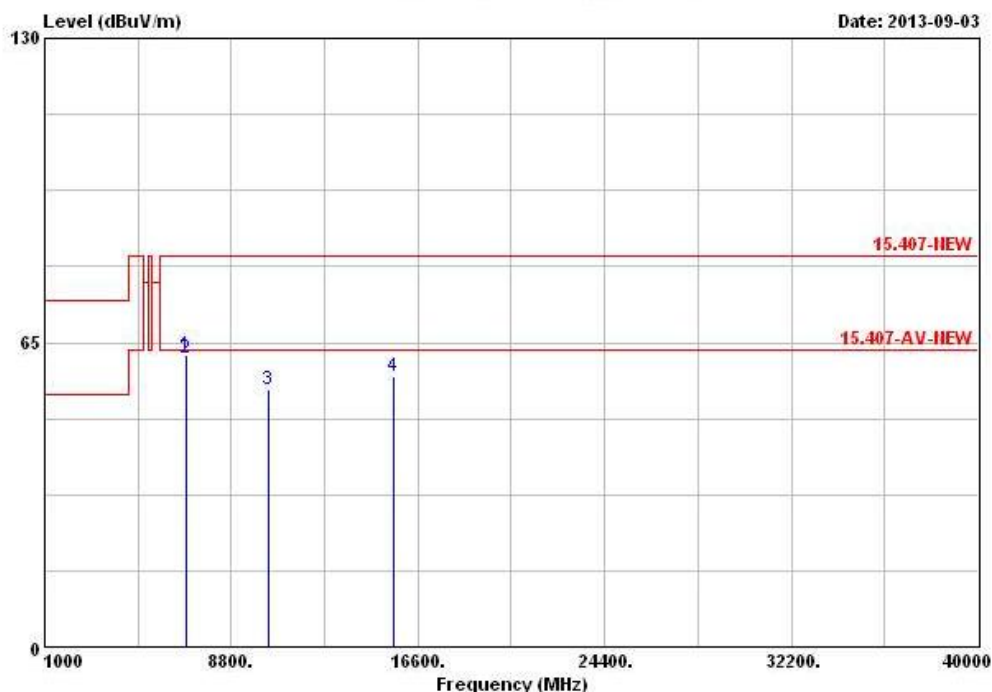
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
N _{TX}	3	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	6918.000	62.44	-21.10	83.54	54.38	36.39	4.42	32.75	Peak	---	---
2 @	6918.000	61.65	-1.89	63.54	53.59	36.39	4.42	32.75	Average	---	---
3	10380.000	55.05	-28.49	83.54	43.16	39.60	5.26	32.97	Peak	---	---
4	15570.000	57.75	-25.79	83.54	44.77	37.98	7.47	32.47	Peak	---	---

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

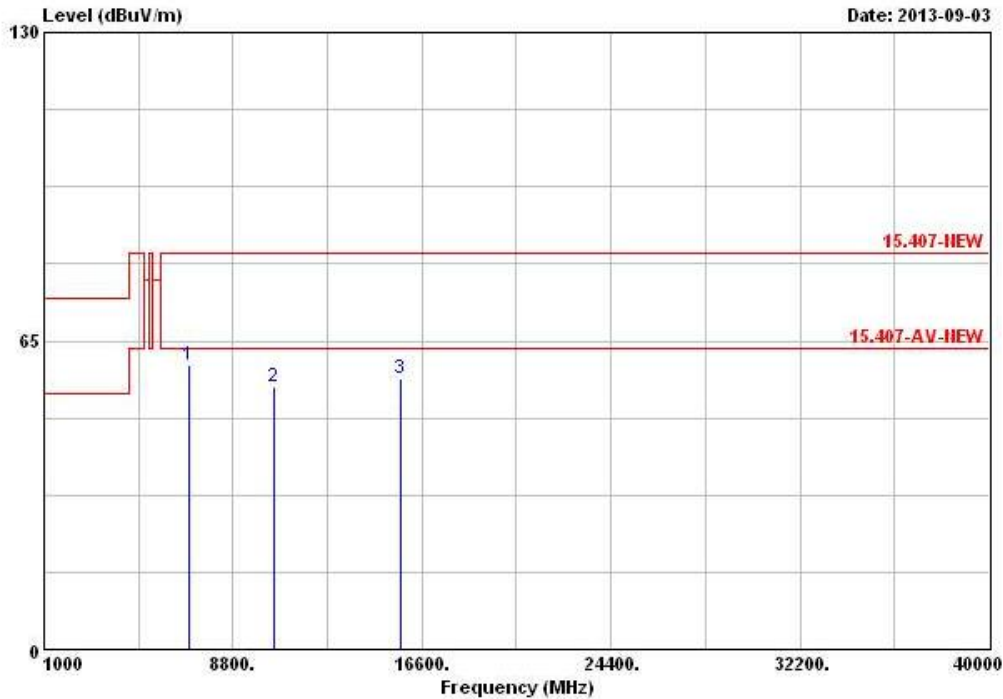
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N_{TX}	3	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	6972.000	59.93	-23.61	83.54	51.77	36.52	4.40	32.76 Peak	---	---
2	10460.620	55.34	-28.20	83.54	43.42	39.60	5.23	32.91 Peak	---	---
3	15690.620	56.99	-26.55	83.54	44.16	37.76	7.58	32.51 Peak	---	---

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

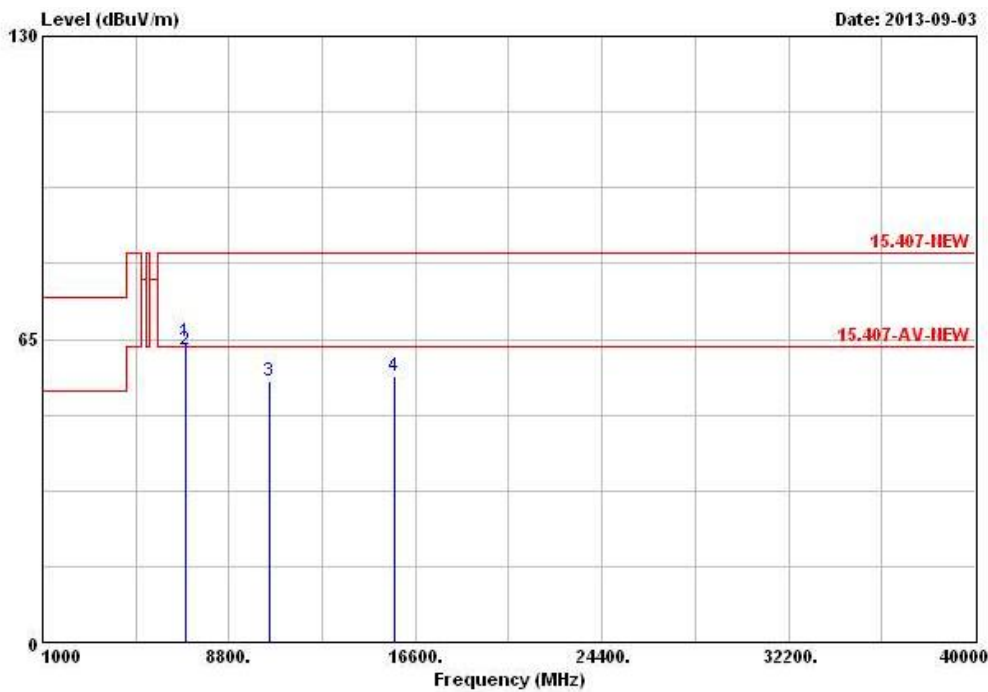
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
N_{TX}	3	Polarization	H



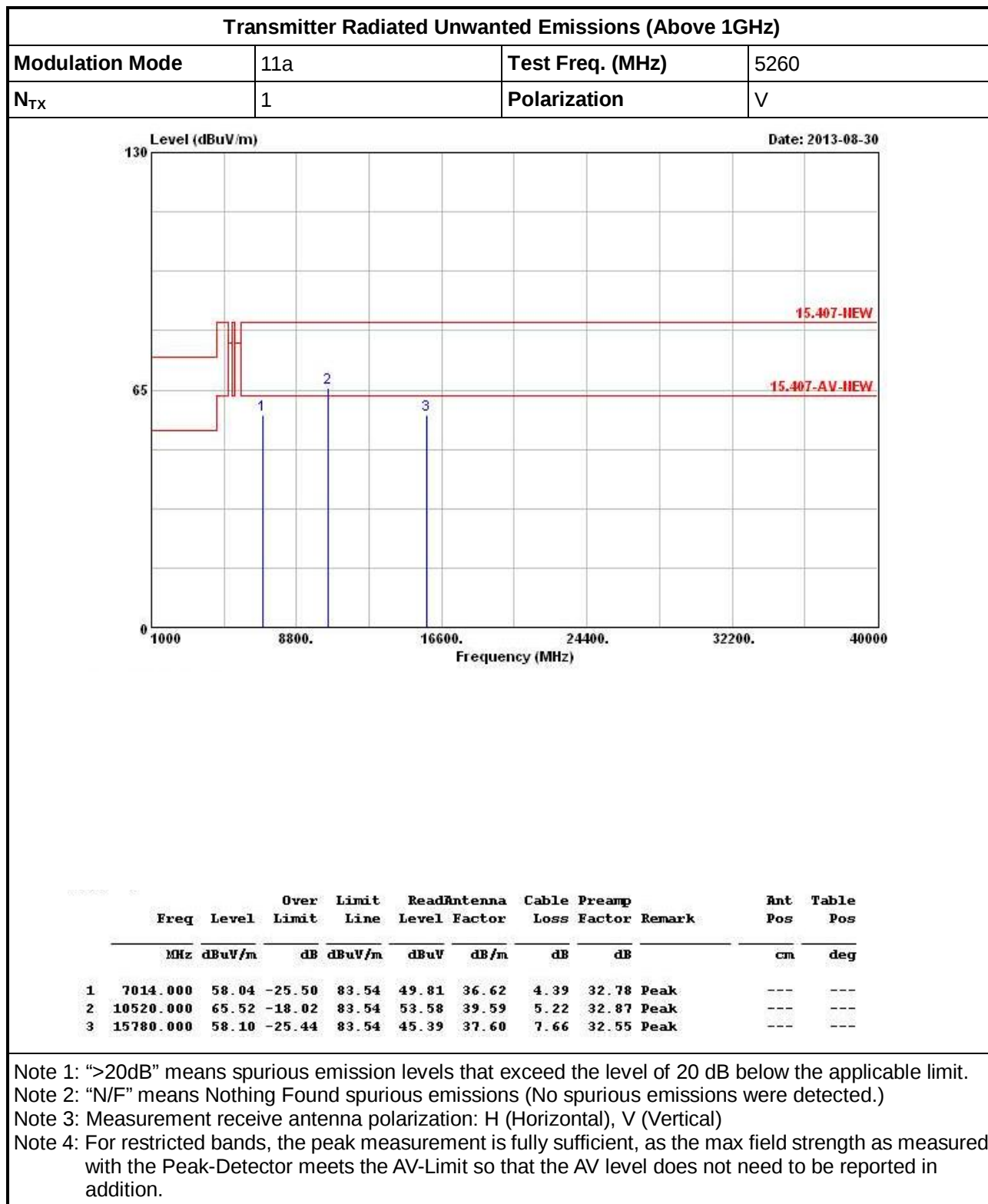
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	6972.000	64.45	-19.09	83.54	56.29	36.52	4.40	32.76 Peak	---	---
2	6972.000	62.69	-0.85	63.54	54.53	36.52	4.40	32.76 Average	---	---
3	10460.000	56.03	-27.51	83.54	44.11	39.60	5.23	32.91 Peak	---	---
4	15690.000	57.20	-26.34	83.54	44.37	37.76	7.58	32.51 Peak	---	---

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

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

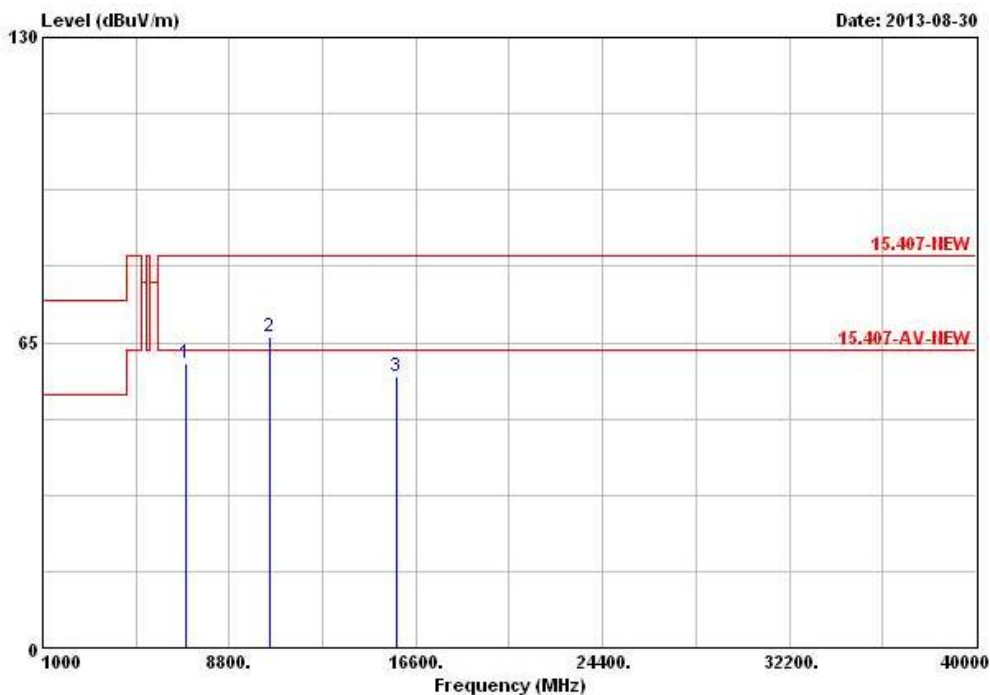
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

3.7.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5250-5350MHz


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	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	7014.000	60.53	-23.01	83.54	52.30	36.62	4.39	32.78	Peak	---	---
2	10520.000	66.29	-17.25	83.54	54.35	39.59	5.22	32.87	Peak	---	---
3	15779.380	57.67	-25.87	83.54	44.96	37.60	7.66	32.55	Peak	---	---

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

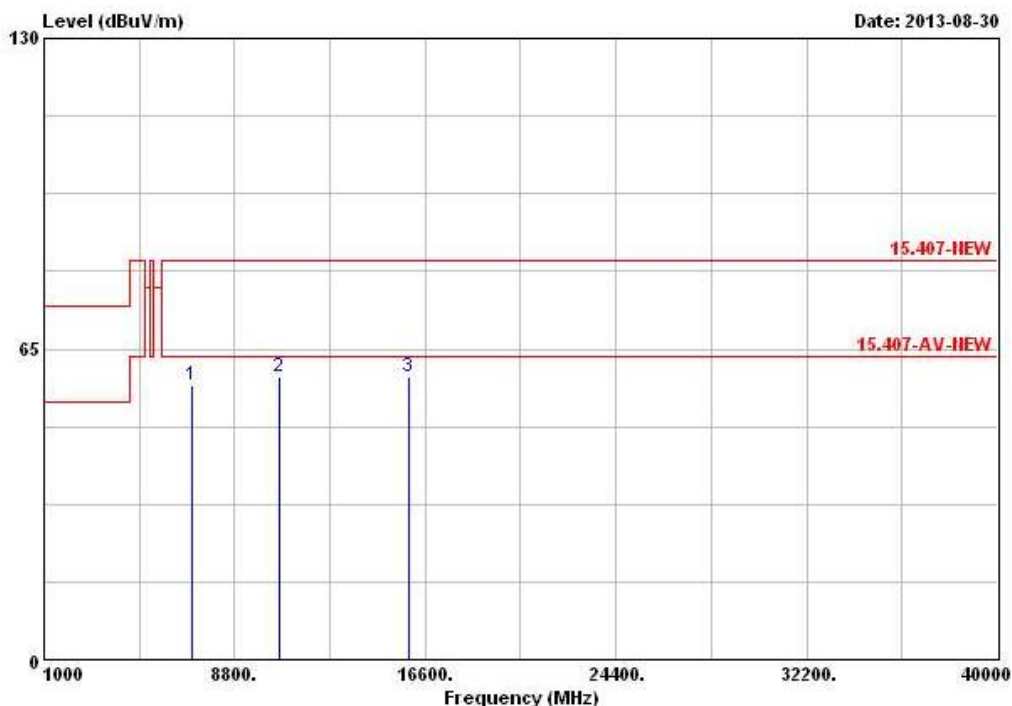
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7068.000	57.33	-26.21	83.54	49.07	36.70	4.35	32.79	Peak	---
2	10599.380	59.25	-24.29	83.54	47.46	39.52	5.10	32.83	Peak	---
3	15900.000	59.28	-24.26	83.54	46.70	37.39	7.77	32.58	Peak	---

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

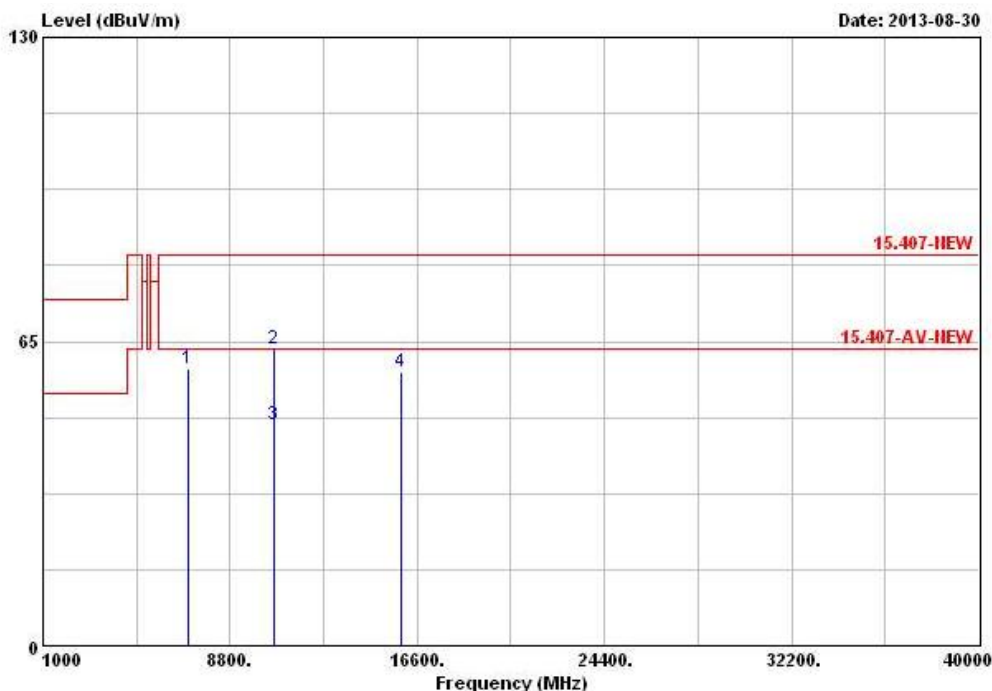
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	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	7068.000	59.20	-24.34	83.54	50.94	36.70	4.35	32.79	Peak	---	---
2	10600.000	63.54	-20.00	83.54	51.75	39.52	5.10	32.83	Peak	---	---
3	10600.000	47.11	-16.43	63.54	35.32	39.52	5.10	32.83	Average	---	---
4	15900.000	58.31	-25.23	83.54	45.73	37.39	7.77	32.58	Peak	---	---

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

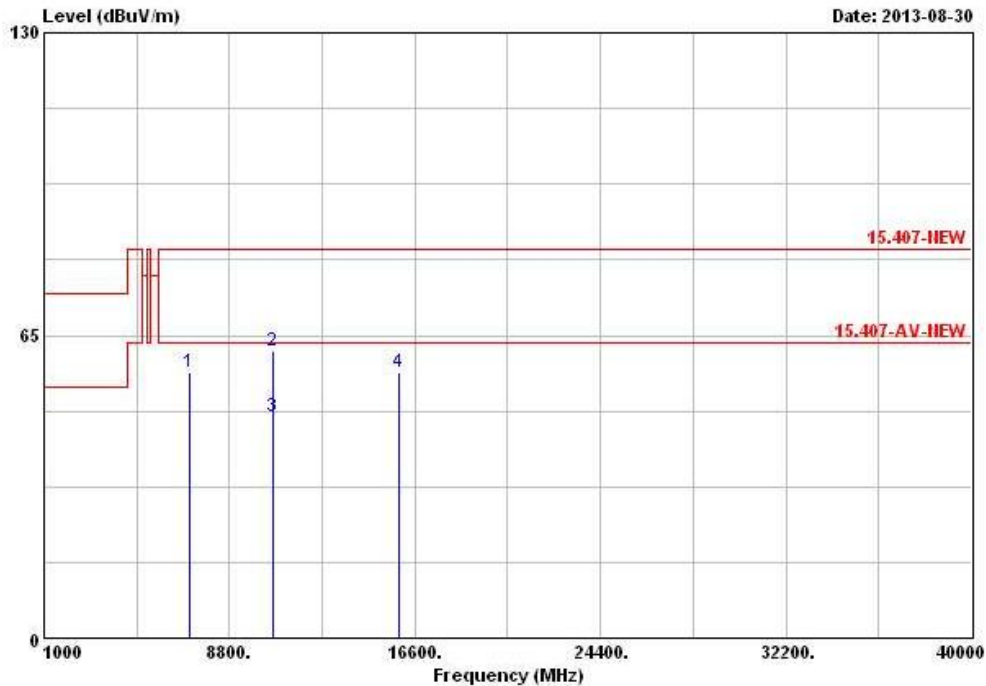
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	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	7092.000	57.01	-26.53	83.54	48.74	36.72	4.35	32.80	Peak	---	---
2	10636.000	61.80	-21.74	83.54	50.07	39.49	5.04	32.80	Peak	---	---
3	10636.000	47.64	-15.90	63.54	35.91	39.49	5.04	32.80	Average	---	---
4	15960.000	57.22	-26.32	83.54	44.72	37.26	7.85	32.61	Peak	---	---

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

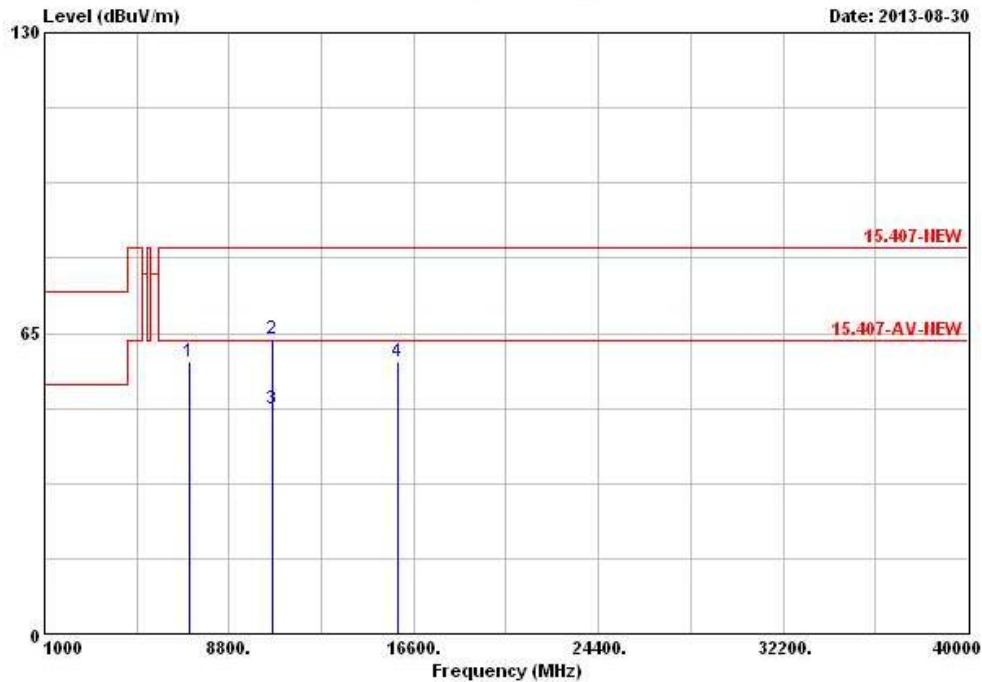
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
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	7092.000	58.88	-24.66	83.54	50.61	36.72	4.35	32.80	Peak	---	---
2	10636.000	63.93	-19.61	83.54	52.20	39.49	5.04	32.80	Peak	---	---
3	10636.000	48.73	-14.81	63.54	37.00	39.49	5.04	32.80	Average	---	---
4	15960.000	58.68	-24.86	83.54	46.18	37.26	7.85	32.61	Peak	---	---

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

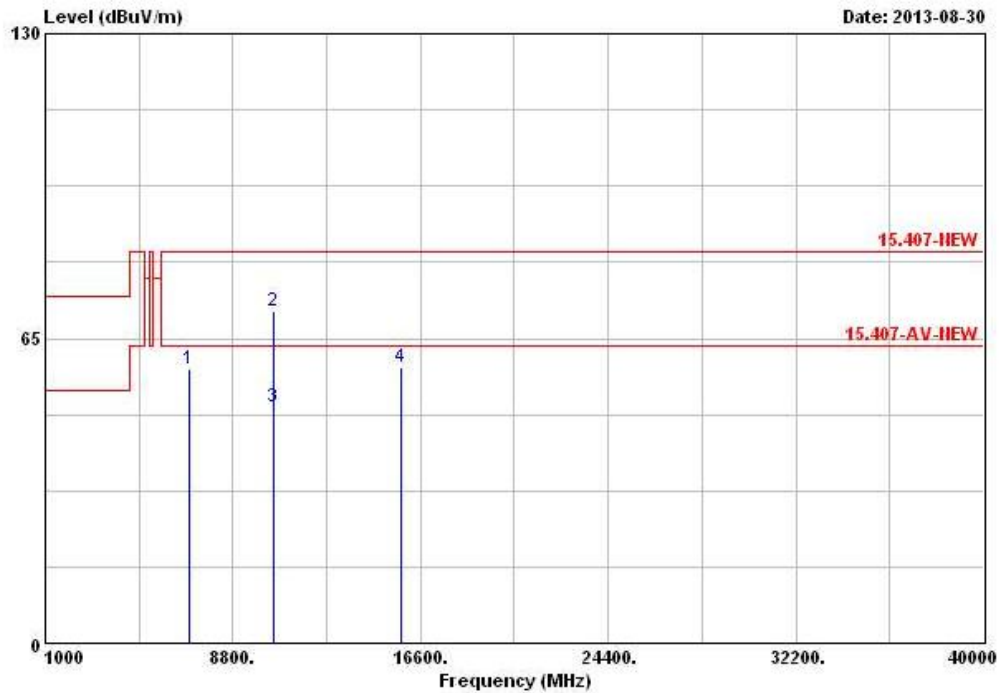
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	2	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	7014.000	58.40	-25.14	83.54	50.17	36.62	4.39	32.78	Peak	---	---
2	10520.000	70.88	-12.66	83.54	58.94	39.59	5.22	32.87	Peak	---	---
3	10520.000	50.31	-13.23	63.54	38.37	39.59	5.22	32.87	Average	---	---
4	15770.380	58.67	-24.87	83.54	45.95	37.60	7.66	32.54	Peak	---	---

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

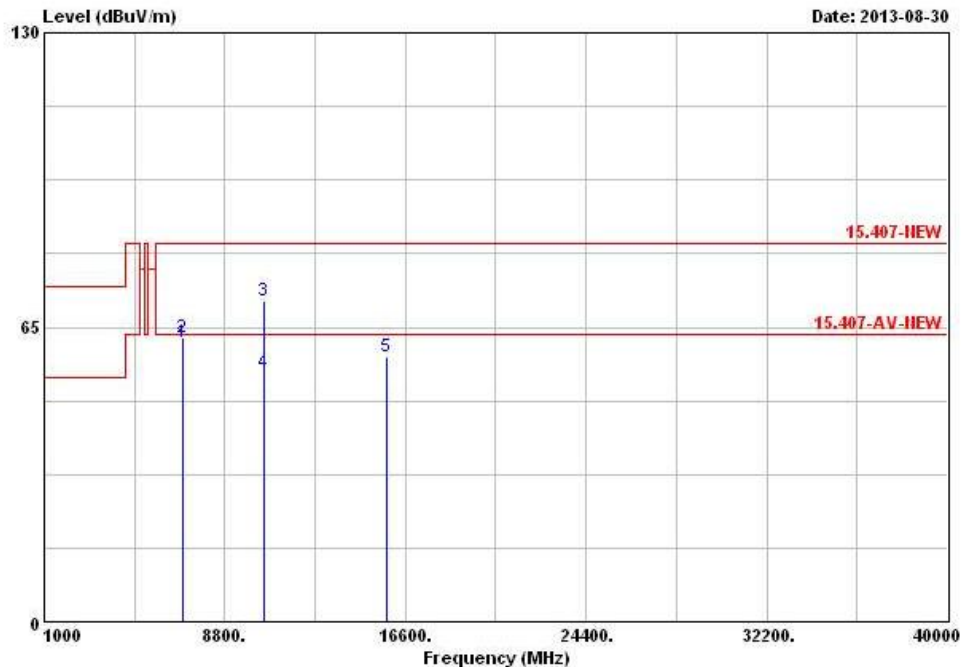
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7013.230	61.58	-1.96	63.54	53.35	36.62	4.39	32.78	Average	---	---
2	7013.230	62.84	-20.70	83.54	54.61	36.62	4.39	32.78	Peak	---	---
3	10520.000	70.96	-12.58	83.54	59.02	39.59	5.22	32.87	Peak	---	---
4	10520.000	54.95	-8.59	63.54	43.01	39.59	5.22	32.87	Average	---	---
5	15779.380	58.50	-25.04	83.54	45.79	37.60	7.66	32.55	Peak	---	---

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

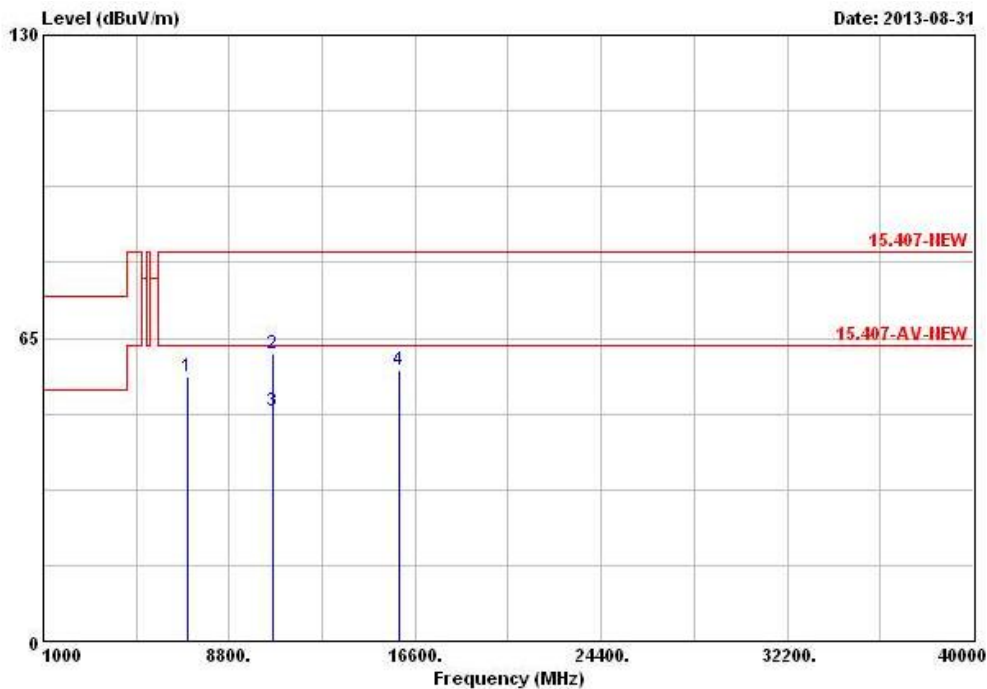
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Antenna 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	7068.000	56.85	-26.69	83.54	48.59	36.70	4.35	32.79	Peak	---	---
2	10600.000	61.61	-21.93	83.54	49.82	39.52	5.10	32.83	Peak	---	---
3	10600.000	49.46	-14.08	63.54	37.67	39.52	5.10	32.83	Average	---	---
4	15899.380	58.01	-25.53	83.54	45.43	37.39	7.77	32.58	Peak	---	---

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

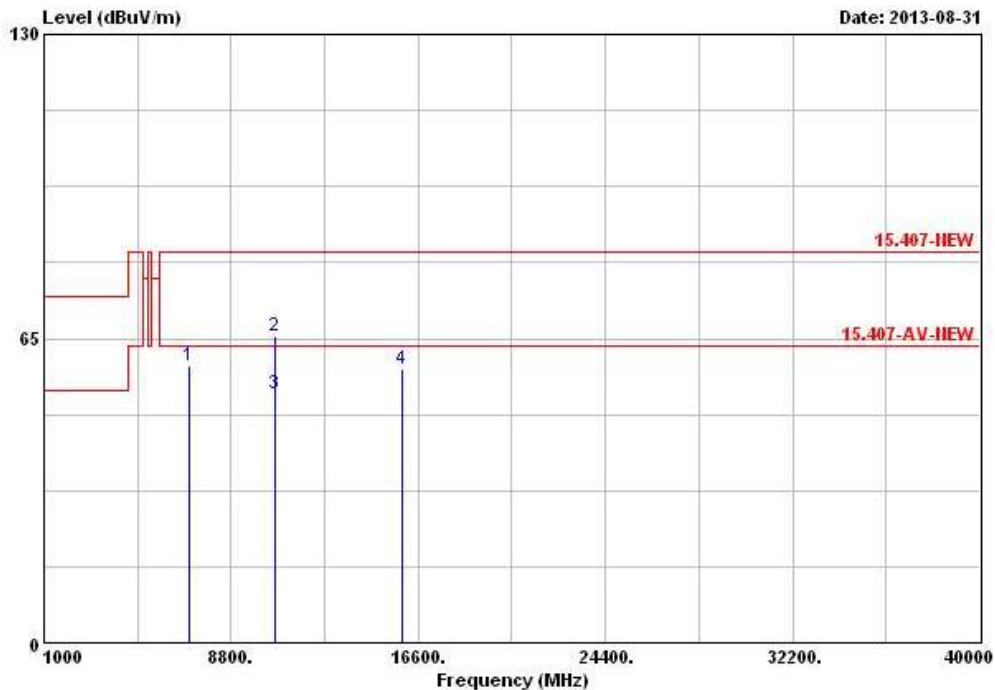
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Antenna 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	7068.000	59.29	-24.25	83.54	51.03	36.70	4.35	32.79	Peak	---	---
2	10600.000	65.51	-18.03	83.54	53.72	39.52	5.10	32.83	Peak	---	---
3	10600.000	53.33	-10.21	63.54	41.54	39.52	5.10	32.83	Average	---	---
4	15900.000	58.47	-25.07	83.54	45.89	37.39	7.77	32.58	Peak	---	---

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

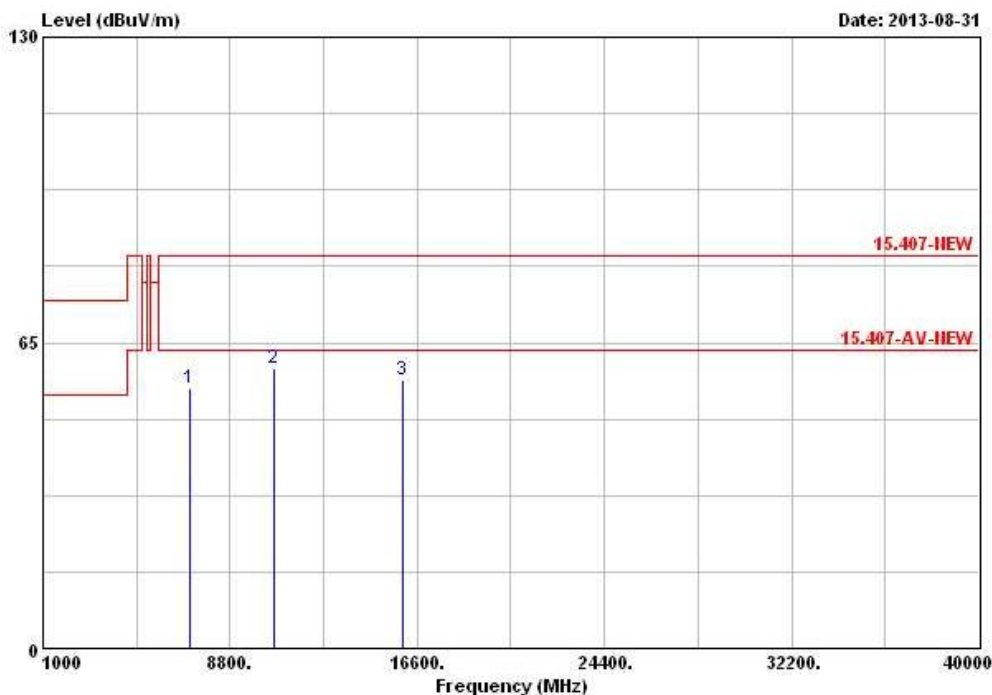
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N_{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7092.000	55.36	-28.18	83.54	47.09	36.72	4.35	32.80	Peak	---	---
2	10640.000	59.45	-24.09	83.54	47.72	39.49	5.04	32.80	Peak	---	---
3	15960.420	57.09	-26.45	83.54	44.59	37.26	7.85	32.61	Peak	---	---

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

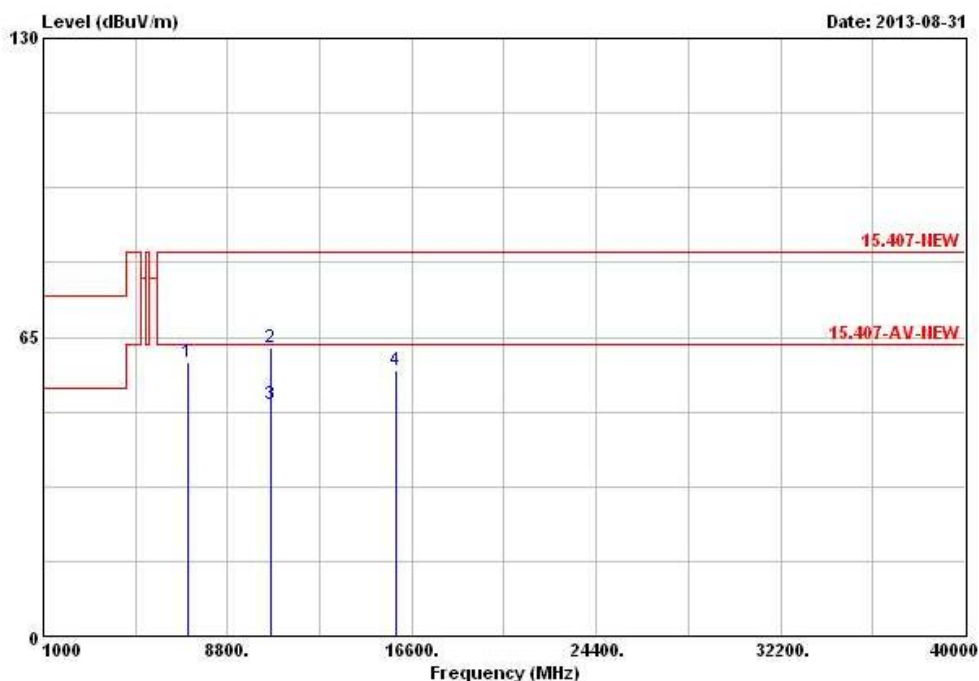
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N _{TX}	2	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	7092.000	59.49	-24.05	83.54	51.22	36.72	4.35	32.80	Peak	---	---
2	10640.000	62.65	-20.89	83.54	50.92	39.49	5.04	32.80	Peak	---	---
3	10640.000	50.28	-13.26	63.54	38.55	39.49	5.04	32.80	Average	---	---
4	15960.000	57.86	-25.68	83.54	45.36	37.26	7.85	32.61	Peak	---	---

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

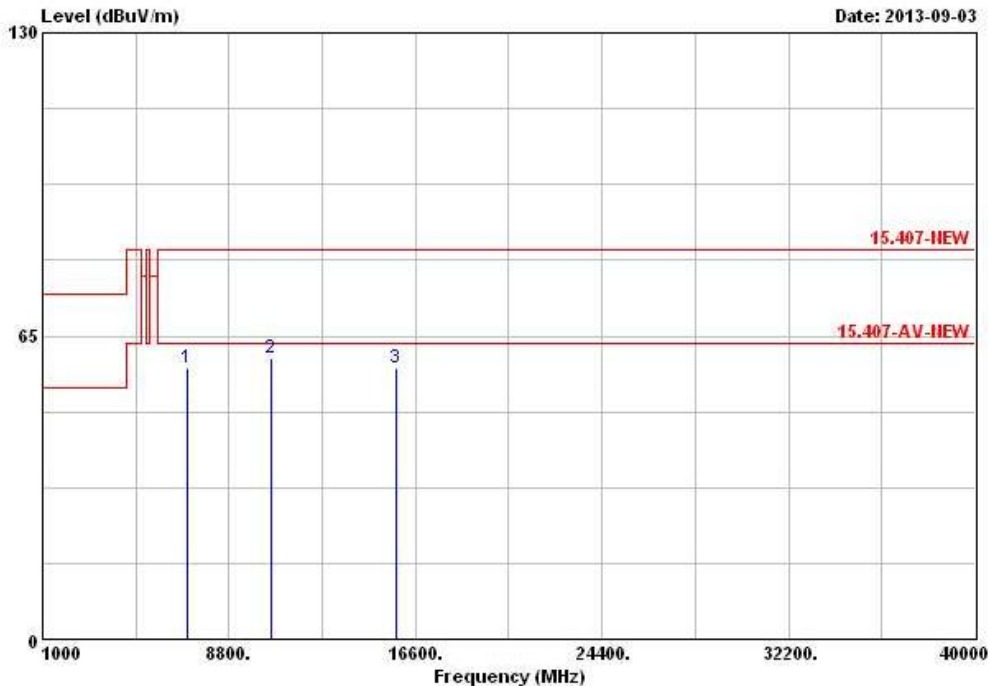
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	2	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	7026.000	58.00	-25.54	83.54	49.79	36.62	4.37	32.78	Peak	---	---
2	10540.000	60.31	-23.23	83.54	48.44	39.57	5.16	32.86	Peak	---	---
3	15810.000	58.04	-25.50	83.54	45.36	37.54	7.70	32.56	Peak	---	---

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

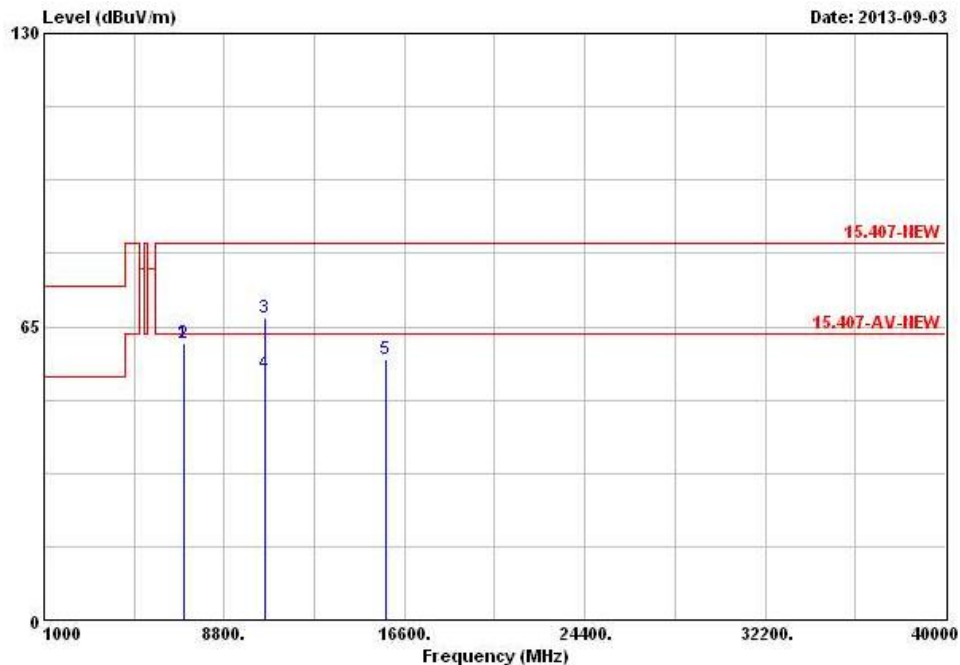
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	2	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	7026.000	61.42	-22.12	83.54	53.21	36.62	4.37	32.78	Peak	---	---
2 @	7026.000	61.24	-2.30	63.54	53.03	36.62	4.37	32.78	Average	---	---
3	10540.000	66.81	-16.73	83.54	54.94	39.57	5.16	32.86	Peak	---	---
4	10540.000	54.62	-8.92	63.54	42.75	39.57	5.16	32.86	Average	---	---
5	15810.000	57.78	-25.76	83.54	45.10	37.54	7.70	32.56	Peak	---	---

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

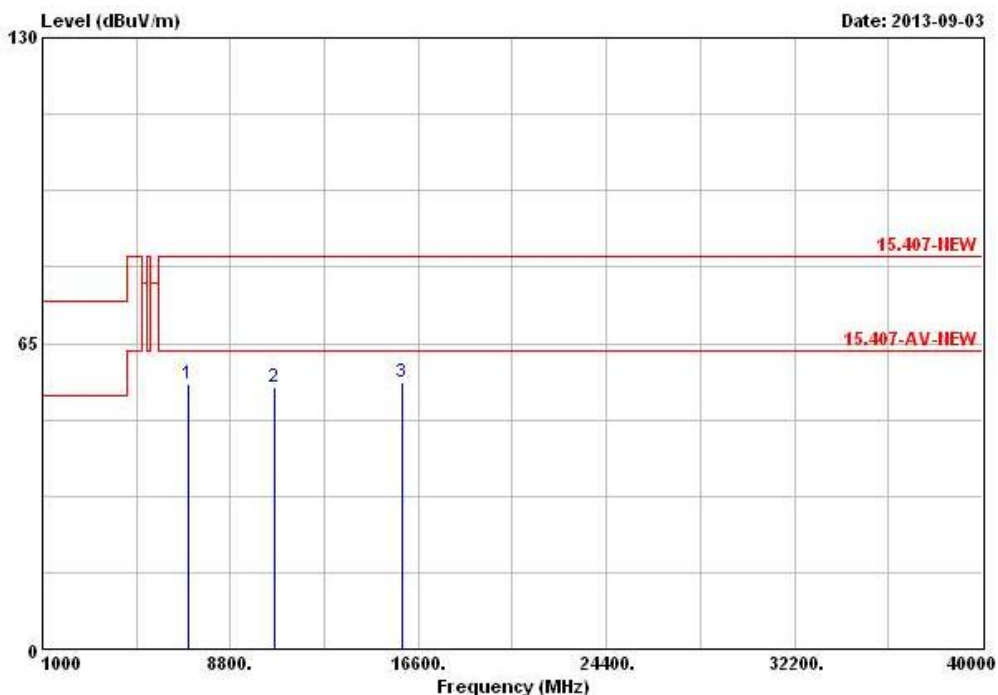
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	2	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	7080.000	56.50	-27.04	83.54	48.22	36.72	4.35	32.79	Peak	---	---
2	10619.380	55.80	-27.74	83.54	44.07	39.50	5.04	32.81	Peak	---	---
3	15930.000	56.75	-26.79	83.54	44.21	37.32	7.81	32.59	Peak	---	---

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

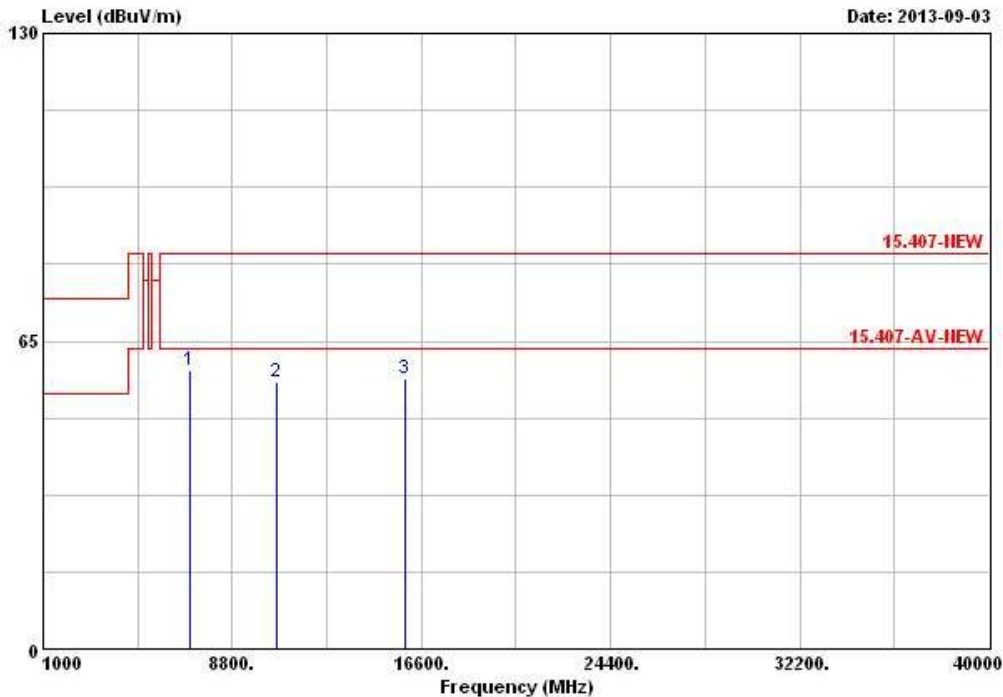
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	2	Polarization	H

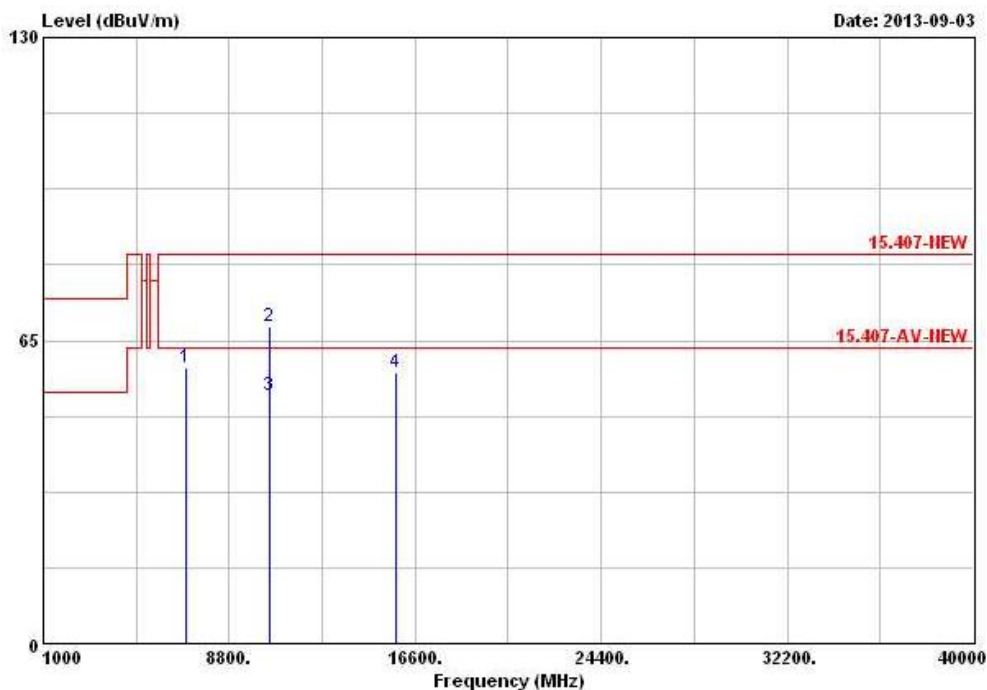


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	58.73	-24.81	83.54	50.45	36.72	4.35	32.79	Peak	---	---
2	10620.380	56.24	-27.30	83.54	44.51	39.50	5.04	32.81	Peak	---	---
3	15929.380	57.11	-26.43	83.54	44.57	37.32	7.81	32.59	Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	3	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	7014.000	59.19	-24.35	83.54	50.96	36.62	4.39	32.78	Peak	---	---
2	10520.000	67.88	-15.66	83.54	55.94	39.59	5.22	32.87	Peak	---	---
3	10520.000	53.37	-10.17	63.54	41.43	39.59	5.22	32.87	Average	---	---
4	15780.000	58.16	-25.38	83.54	45.45	37.60	7.66	32.55	Peak	---	---

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

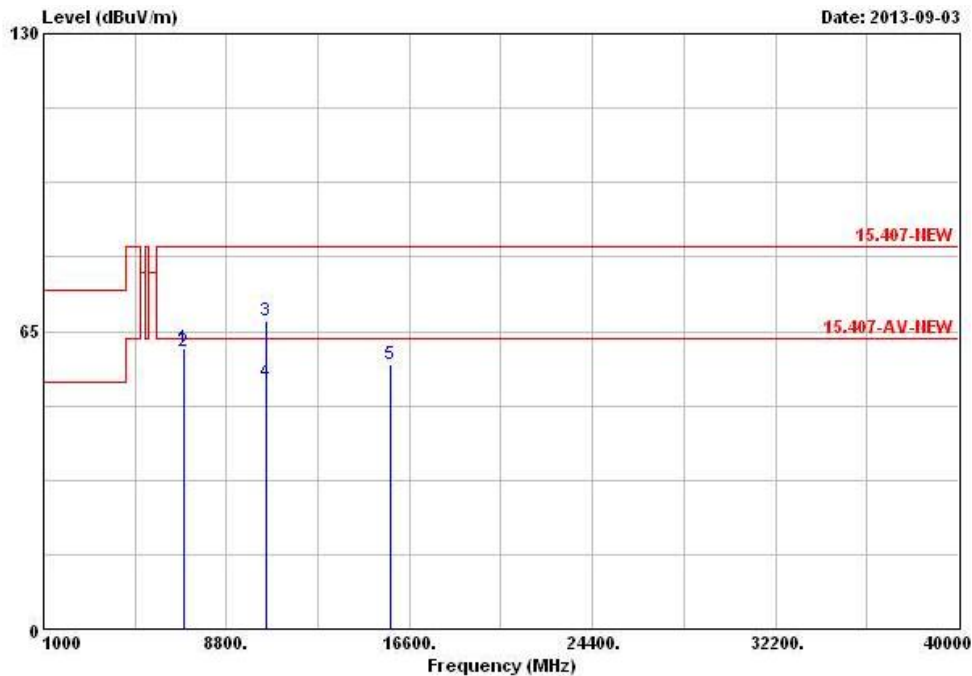
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
N_{TX}	3	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	7014.000	61.19	-22.35	83.54	52.96	36.62	4.39	32.78	Peak	---	---
2	7014.000	60.46	-3.08	63.54	52.23	36.62	4.39	32.78	Average	---	---
3	10520.000	67.41	-16.13	83.54	55.47	39.59	5.22	32.87	Peak	---	---
4	10520.000	53.95	-9.59	63.54	42.01	39.59	5.22	32.87	Average	---	---
5	15779.380	57.93	-25.61	83.54	45.22	37.60	7.66	32.55	Peak	---	---

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

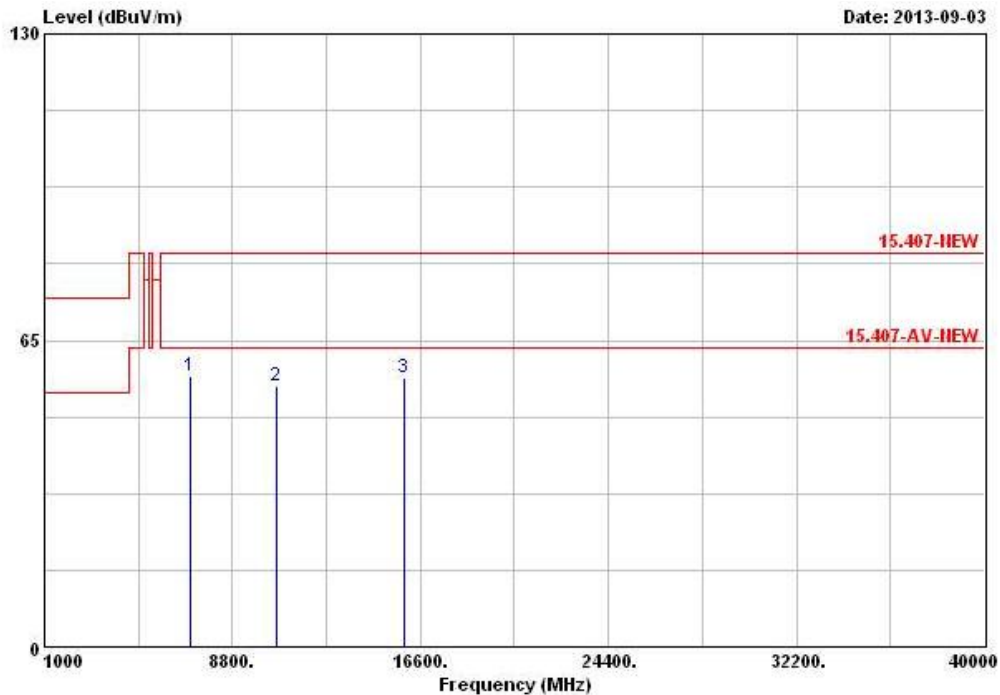
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	3	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	7068.000	57.26	-26.28	83.54	49.00	36.70	4.35	32.79	Peak	---	---
2	10600.000	55.20	-28.34	83.54	43.41	39.52	5.10	32.83	Peak	---	---
3	15900.000	57.06	-26.48	83.54	44.48	37.39	7.77	32.58	Peak	---	---

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

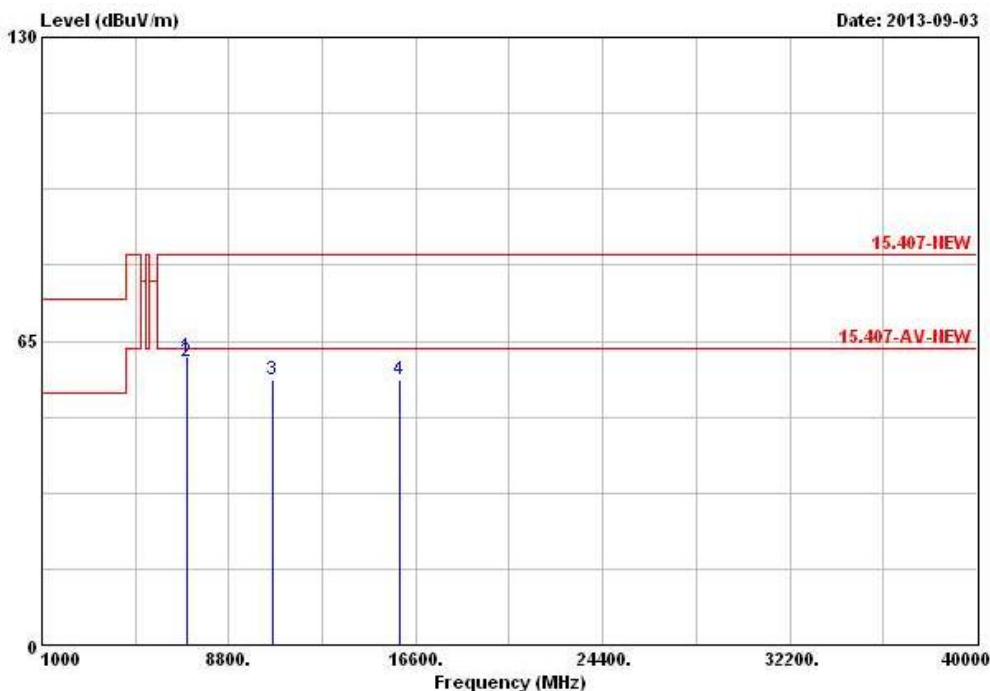
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
N_{TX}	3	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	7068.000	61.52	-22.02	83.54	53.26	36.70	4.35	32.79	Peak	---	---
2 @	7068.000	60.49	-3.05	63.54	52.23	36.70	4.35	32.79	Average	---	---
3	10600.000	56.79	-26.75	83.54	45.00	39.52	5.10	32.83	Peak	---	---
4	15900.000	56.68	-26.86	83.54	44.10	37.39	7.77	32.58	Peak	---	---

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

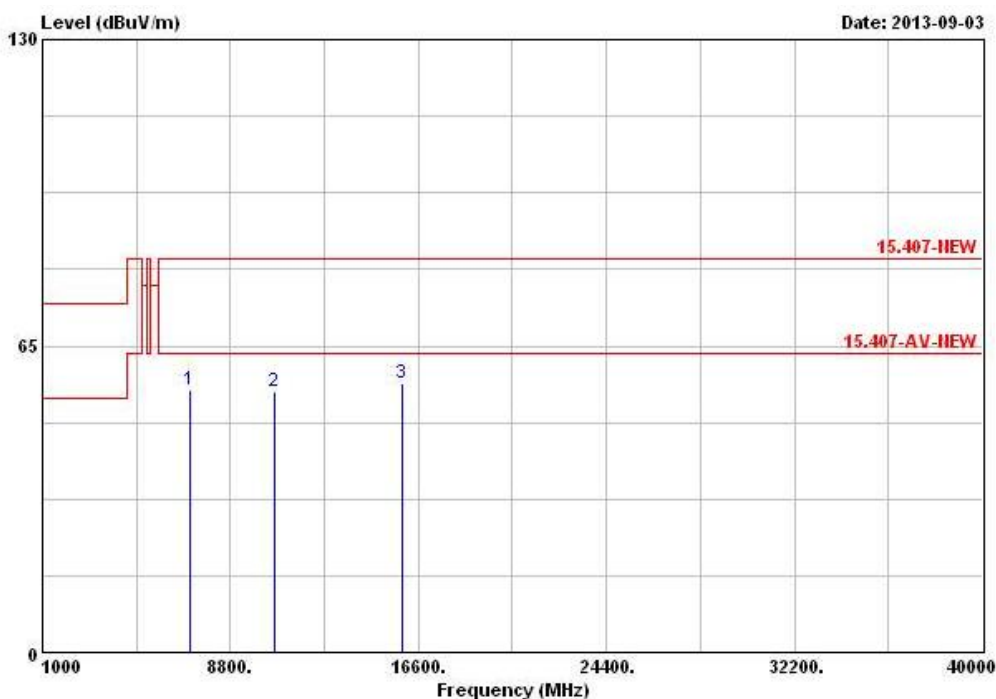
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N _{TX}	3	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	7092.000	55.68	-27.86	83.54	47.41	36.72	4.35	32.80	Peak	---	---
2	10640.420	55.37	-28.17	83.54	43.64	39.49	5.04	32.80	Peak	---	---
3	15960.000	57.01	-26.53	83.54	44.51	37.26	7.85	32.61	Peak	---	---

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

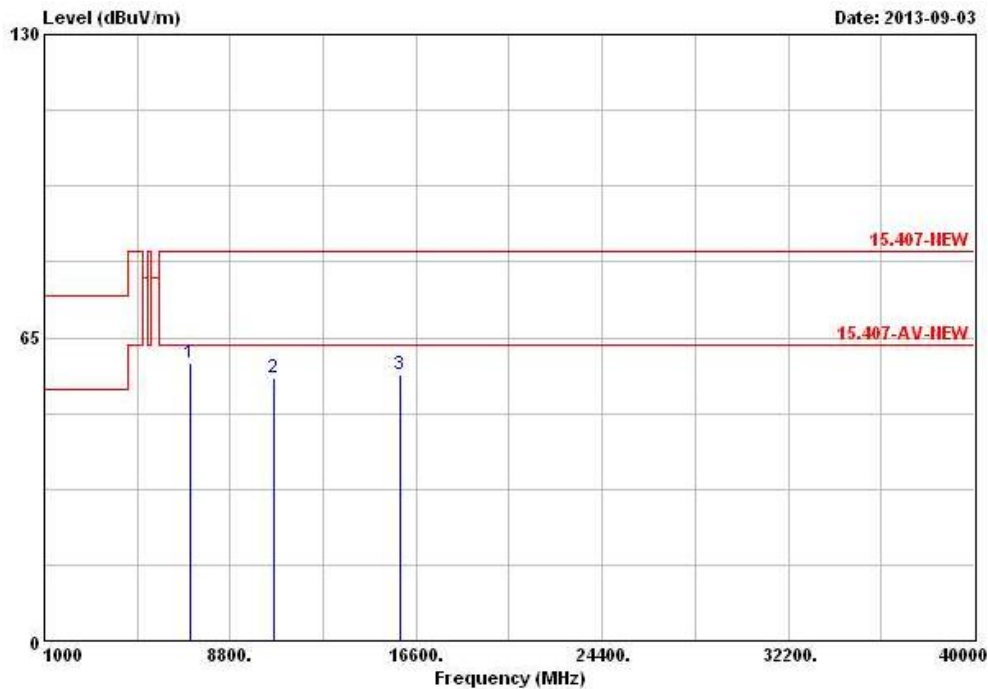
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
N_{TX}	3	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	7092.000	59.38	-24.16	83.54	51.11	36.72	4.35	32.80	Peak	---	---
2	10640.000	56.23	-27.31	83.54	44.50	39.49	5.04	32.80	Peak	---	---
3	15960.000	57.07	-26.47	83.54	44.57	37.26	7.85	32.61	Peak	---	---

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

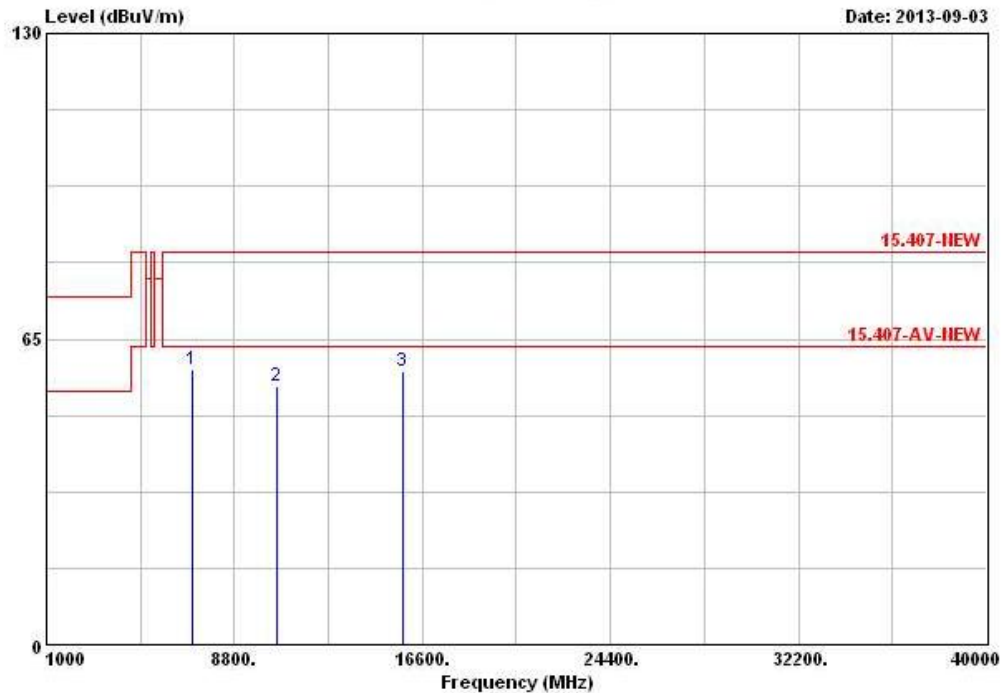
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	3	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	7026.000	58.64	-24.90	83.54	50.43	36.62	4.37	32.78	Peak	---	---
2	10540.000	55.08	-28.46	83.54	43.21	39.57	5.16	32.86	Peak	---	---
3	15810.000	58.22	-25.32	83.54	45.54	37.54	7.70	32.56	Peak	---	---

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

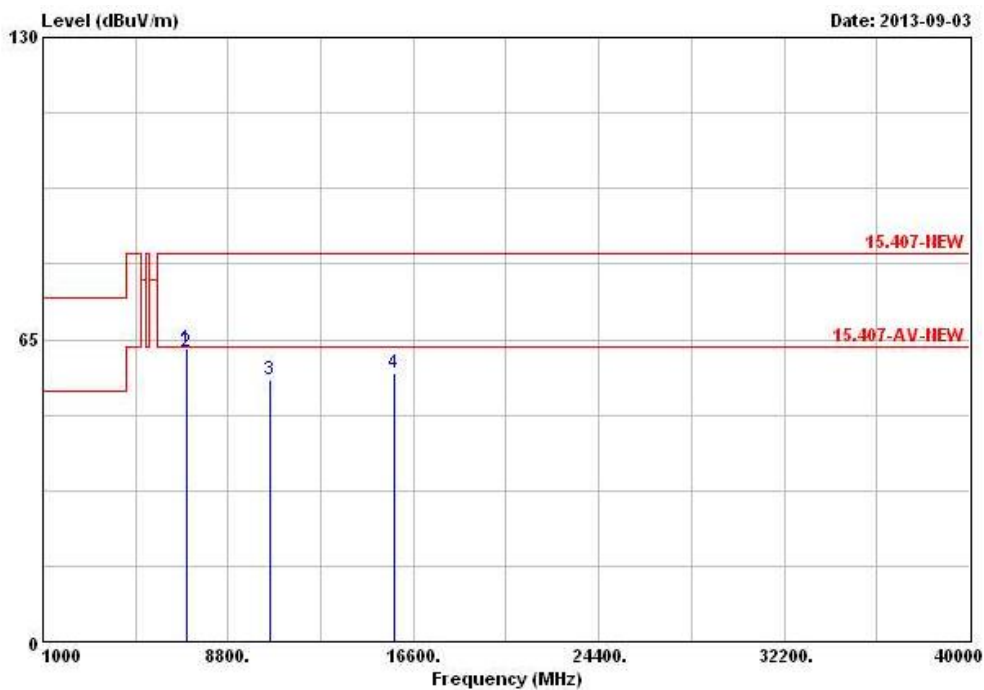
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
N_{TX}	3	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7026.000	62.97	-20.57	83.54	54.76	36.62	4.37	32.78 Peak	---	---
2 @	7026.000	62.20	-1.34	63.54	53.99	36.62	4.37	32.78 Average	---	---
3	10540.620	56.48	-27.06	83.54	44.61	39.57	5.16	32.86 Peak	---	---
4	15809.380	57.91	-25.63	83.54	45.23	37.54	7.70	32.56 Peak	---	---

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

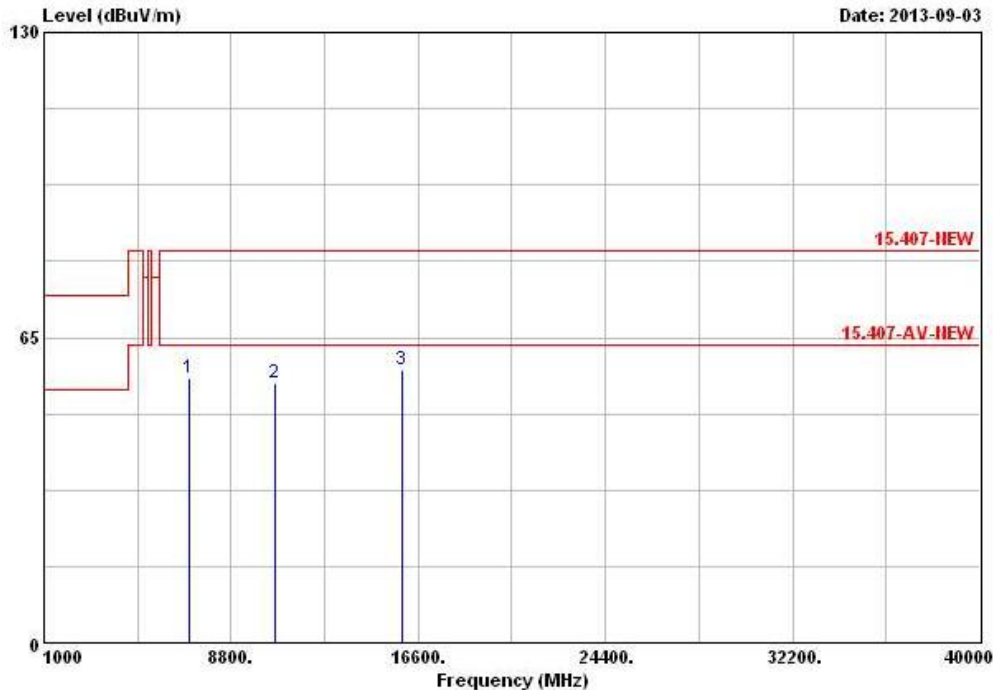
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	3	Polarization	V

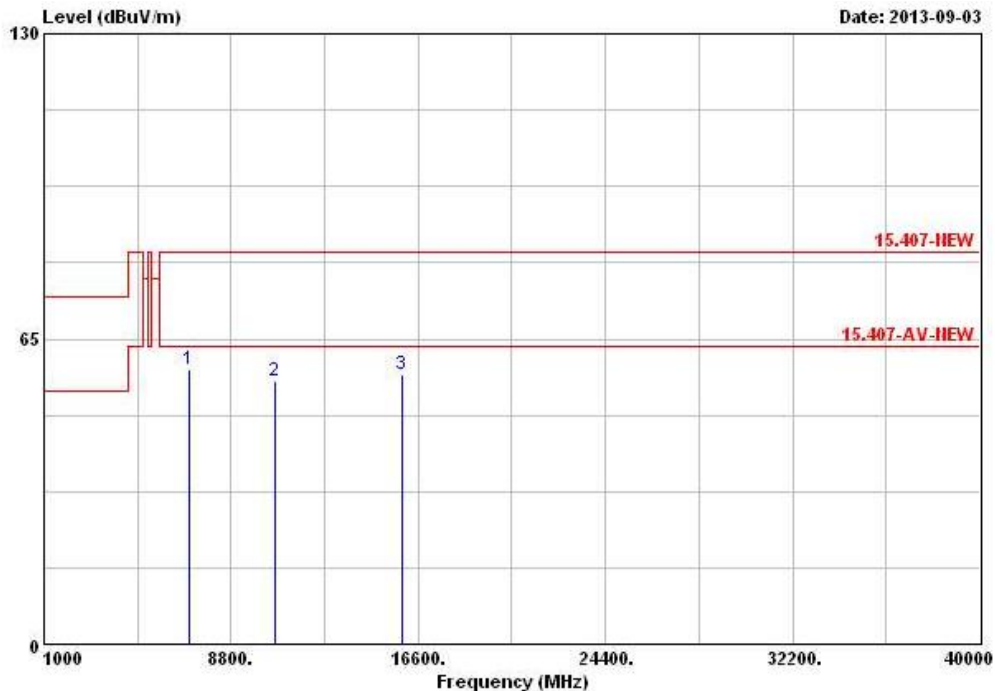


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	56.27	-27.27	83.54	47.99	36.72	4.35	32.79	Peak	---	---
2	10620.000	55.35	-28.19	83.54	43.62	39.50	5.04	32.81	Peak	---	---
3	15929.380	58.15	-25.39	83.54	45.61	37.32	7.81	32.59	Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N_{TX}	3	Polarization	H



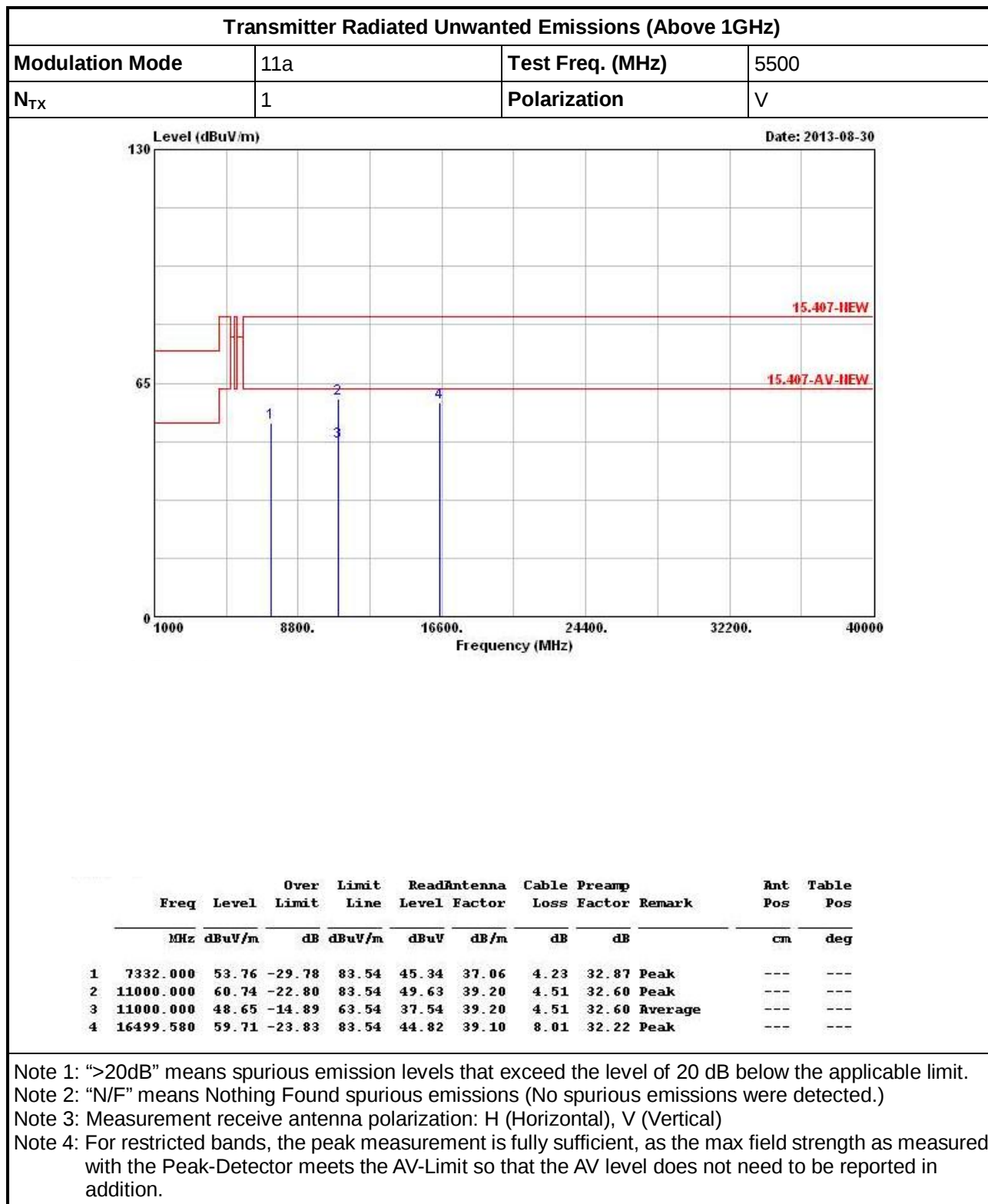
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7080.000	58.56	-24.98	83.54	50.28	36.72	4.35	32.79	Peak	---	---
2	10620.000	56.12	-27.42	83.54	44.39	39.50	5.04	32.81	Peak	---	---
3	15930.380	57.41	-26.13	83.54	44.88	37.32	7.81	32.60	Peak	---	---

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

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

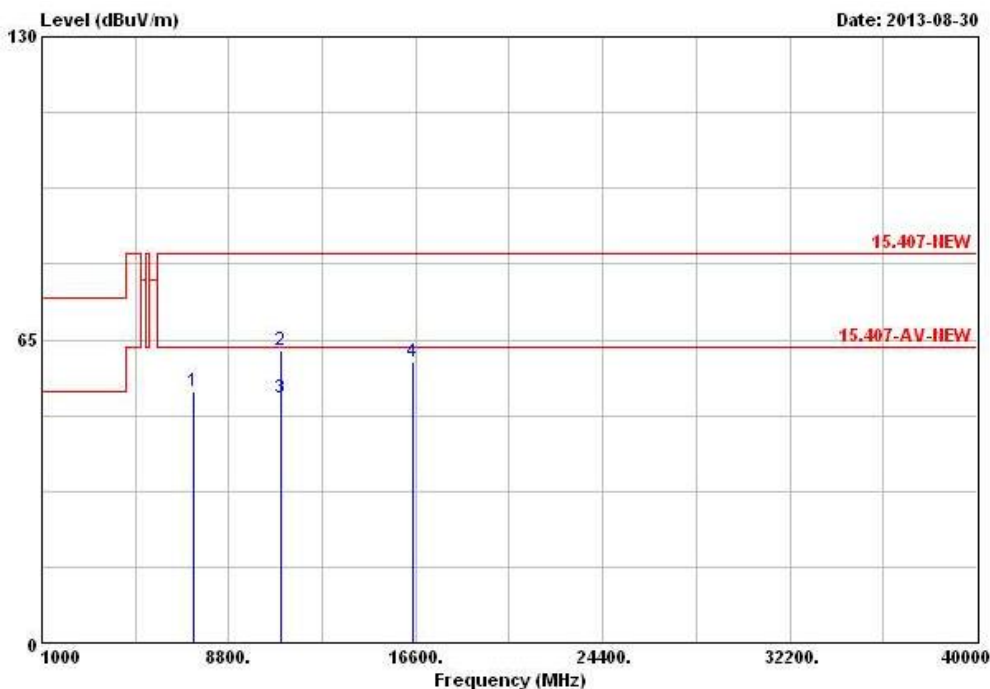
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

3.7.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5470-5725MHz


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	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	7332.000	53.98	-29.56	83.54	45.56	37.06	4.23	32.87	Peak	---	---
2	11000.000	62.72	-20.82	83.54	51.61	39.20	4.51	32.60	Peak	---	---
3	11000.000	52.44	-11.10	63.54	41.33	39.20	4.51	32.60	Average	---	---
4	16500.000	60.33	-23.21	83.54	45.44	39.10	8.01	32.22	Peak	---	---

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

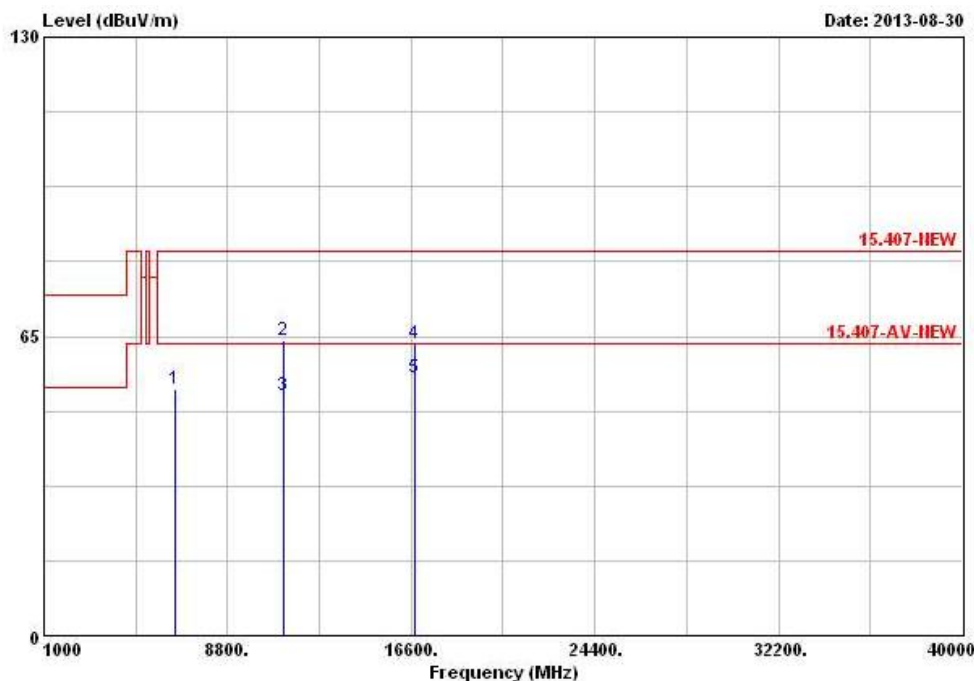
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over	Limit	Read	Antenna	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	6540.000	53.66	-29.88	83.54	46.29	35.48	4.56	32.67	Peak	---	---
2	11156.000	64.20	-19.34	83.54	52.77	39.47	4.55	32.59	Peak	---	---
3	11156.000	52.03	-11.51	63.54	40.60	39.47	4.55	32.59	Average	---	---
4	16740.000	63.33	-20.21	83.54	46.67	40.40	8.18	31.92	Peak	---	---
5	16740.000	56.16	-7.38	63.54	39.50	40.40	8.18	31.92	Average	---	---

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

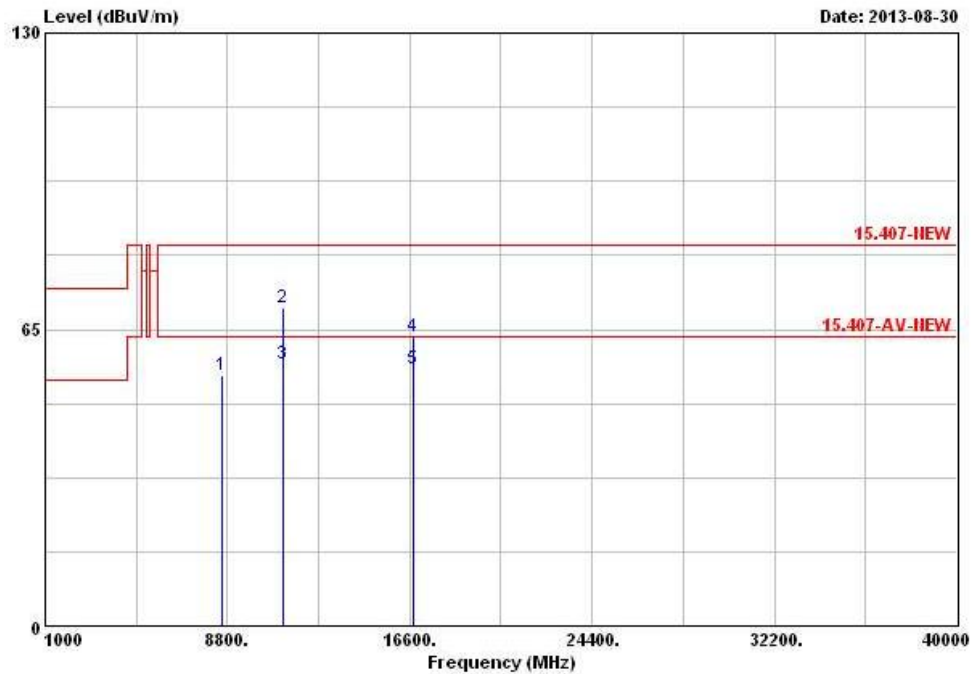
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8550.000	54.92	-28.62	83.54	45.12	38.64	4.20	33.04	Peak	---	---
2	11156.000	69.59	-13.95	83.54	58.16	39.47	4.55	32.59	Peak	---	---
3	11156.000	57.57	-5.97	63.54	46.14	39.47	4.55	32.59	Average	---	---
4	16740.000	63.25	-20.29	83.54	46.59	40.40	8.18	31.92	Peak	---	---
5	16740.000	56.48	-7.06	63.54	39.82	40.40	8.18	31.92	Average	---	---

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

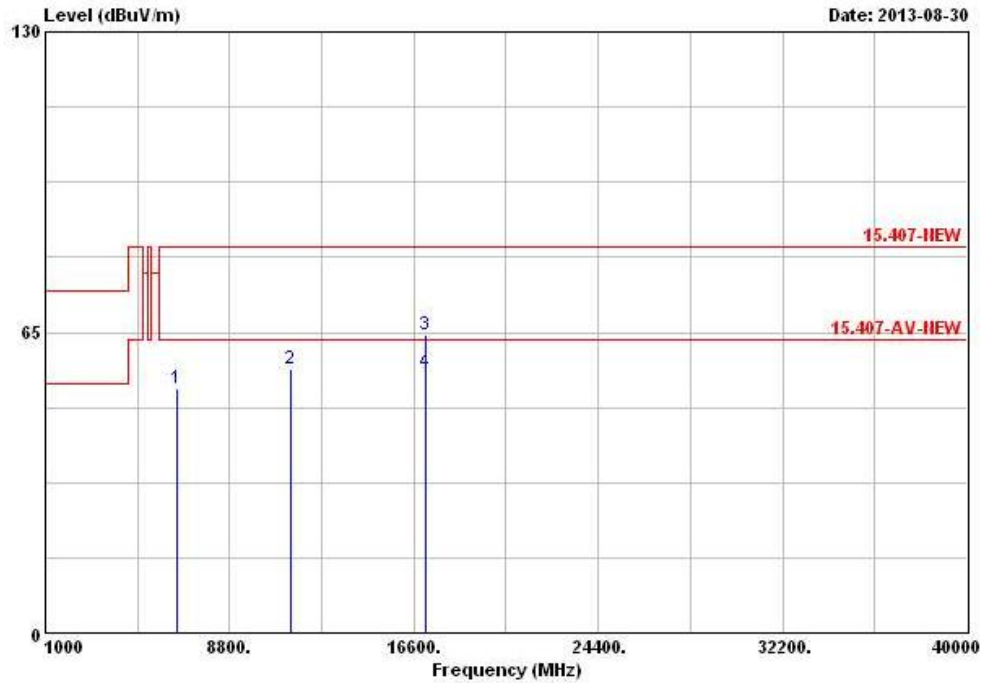
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
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	6570.000	52.68	-30.86	83.54	45.23	35.57	4.55	32.67	Peak	---	---
2	11400.000	56.98	-26.56	83.54	45.03	39.92	4.61	32.58	Peak	---	---
3	17100.000	64.53	-19.01	83.54	44.93	42.66	8.55	31.61	Peak	---	---
4	17100.000	56.25	-7.29	63.54	36.65	42.66	8.55	31.61	Average	---	---

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

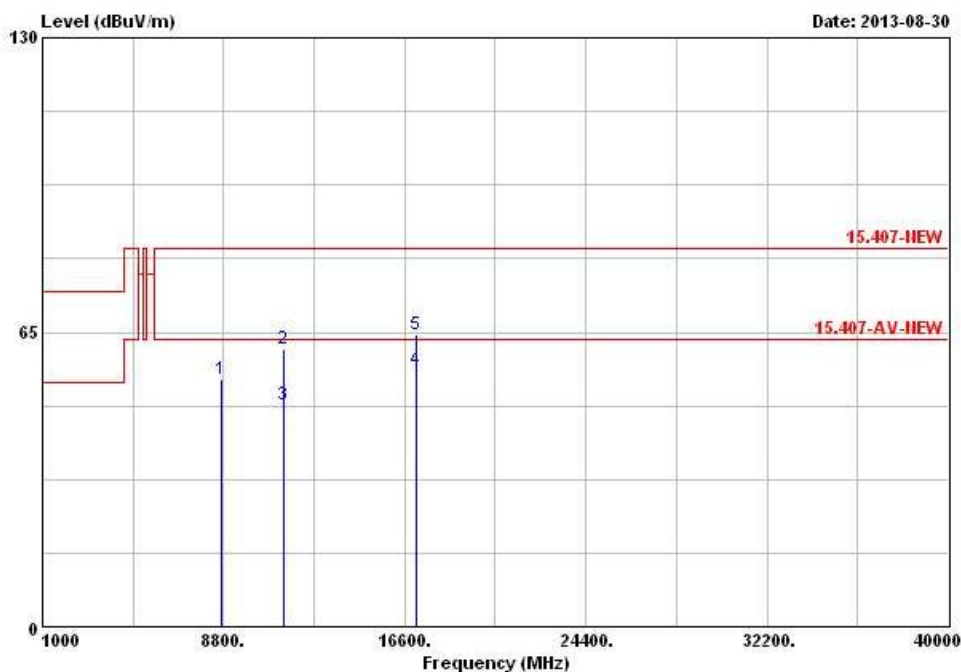
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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 Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8718.000	54.57	-28.97	83.54	44.65	38.44	4.58	33.10	Peak	---	---
2	11403.000	61.17	-22.37	83.54	49.22	39.92	4.61	32.58	Peak	---	---
3	11403.000	48.87	-14.67	63.54	36.92	39.92	4.61	32.58	Average	---	---
4	17100.420	56.63	-6.91	63.54	37.03	42.66	8.55	31.61	Average	---	---
5	17100.420	64.43	-19.11	83.54	44.83	42.66	8.55	31.61	Peak	---	---

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

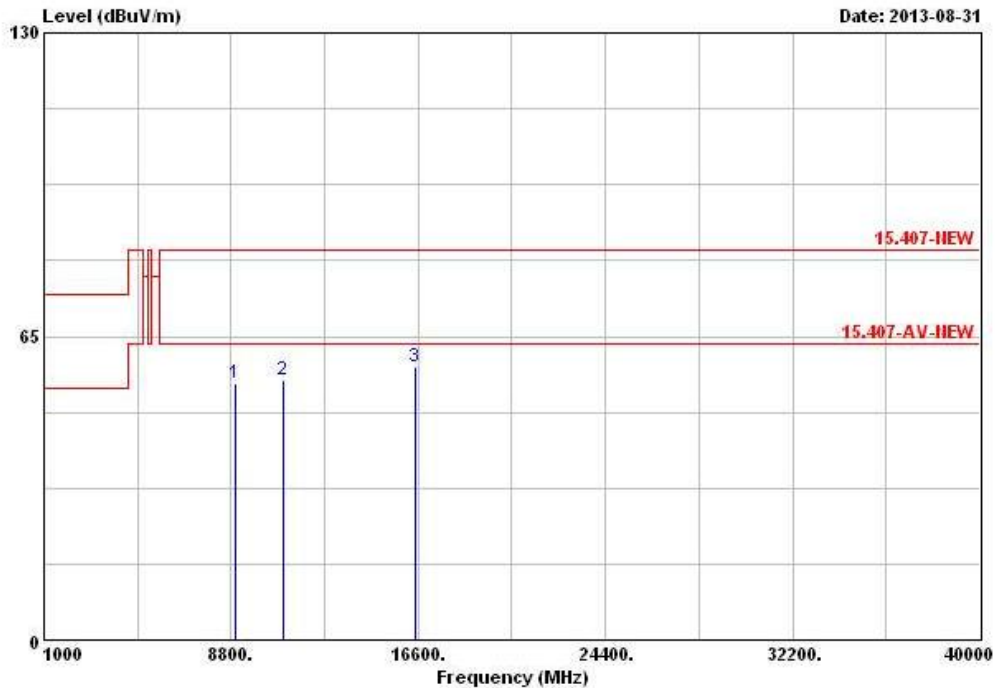
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N_{TX}	2	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	8970.000	54.99	-28.55	83.54	44.89	38.14	5.14	33.18 Peak	---	---
2	11000.000	55.69	-27.85	83.54	44.58	39.20	4.51	32.60 Peak	---	---
3	16499.580	58.51	-25.03	83.54	43.62	39.10	8.01	32.22 Peak	---	---

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

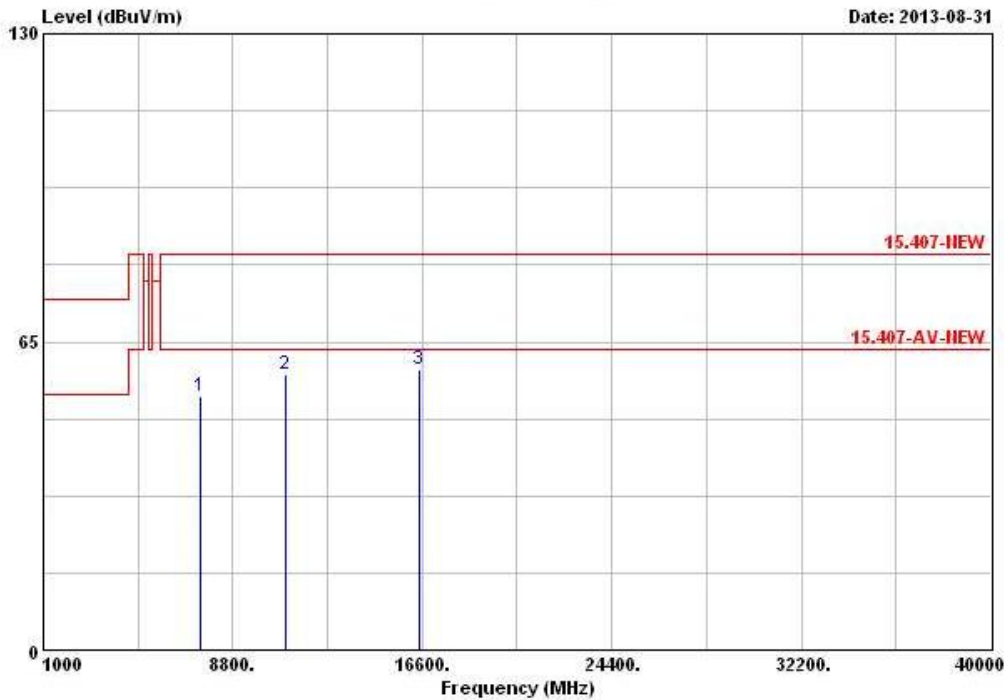
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N_{TX}	2	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	7446.000	53.47	-30.07	83.54	44.97	37.23	4.17	32.90	Peak	---	---
2	11000.000	58.18	-25.36	83.54	47.07	39.20	4.51	32.60	Peak	---	---
3	16500.000	59.07	-24.47	83.54	44.18	39.10	8.01	32.22	Peak	---	---

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

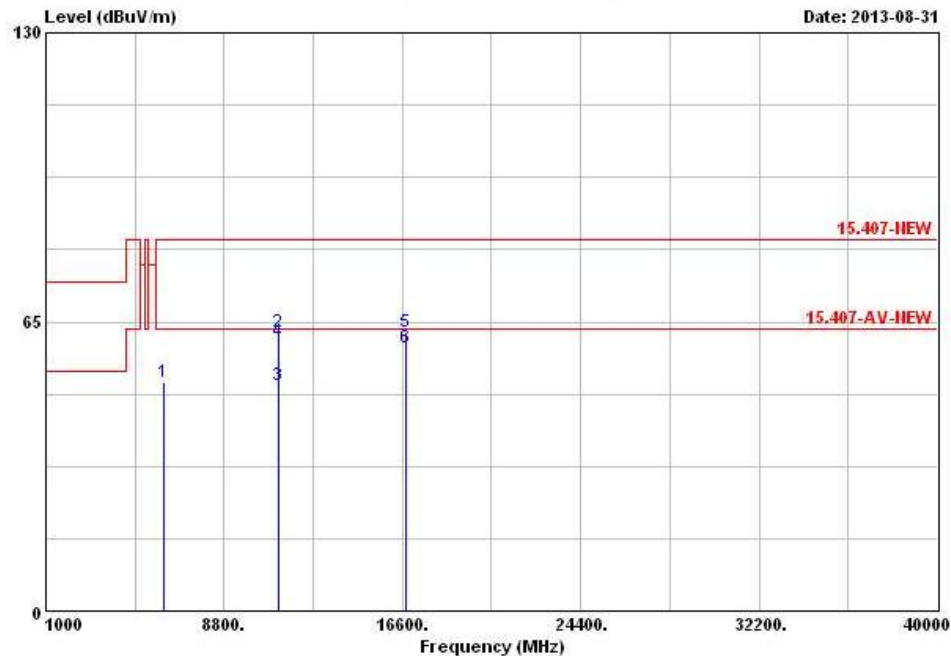
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N_{TX}	2	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	6186.000	51.31	-32.23	83.54	44.52	35.15	4.26	32.62	Peak	---	---
2	11156.000	62.82	-20.72	83.54	51.39	39.47	4.55	32.59	Peak	---	---
3	11156.000	50.67	-12.87	63.54	39.24	39.47	4.55	32.59	Average	---	---
4	11156.000	60.67	-2.87	63.54	49.24	39.47	4.55	32.59	Average	---	---
5	16740.620	62.55	-20.99	83.54	45.89	40.40	8.18	31.92	Peak	---	---
6	16740.620	59.33	-4.21	63.54	42.67	40.40	8.18	31.92	Average	---	---

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

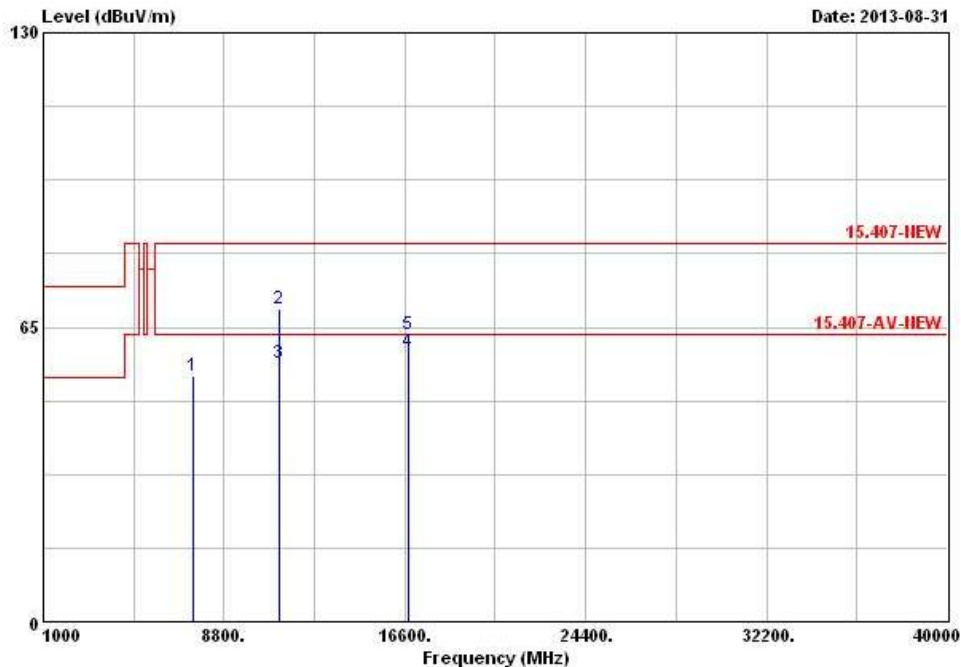
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7440.000	54.18	-29.36	83.54	45.68	37.23	4.17	32.90	Peak	---
2	11156.000	69.14	-14.40	83.54	57.71	39.47	4.55	32.59	Peak	---
3	11156.000	57.13	-6.41	63.54	45.70	39.47	4.55	32.59	Average	---
4	16740.000	59.44	-4.10	63.54	42.78	40.40	8.18	31.92	Average	---
5	16740.000	63.50	-20.04	83.54	46.84	40.40	8.18	31.92	Peak	---

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

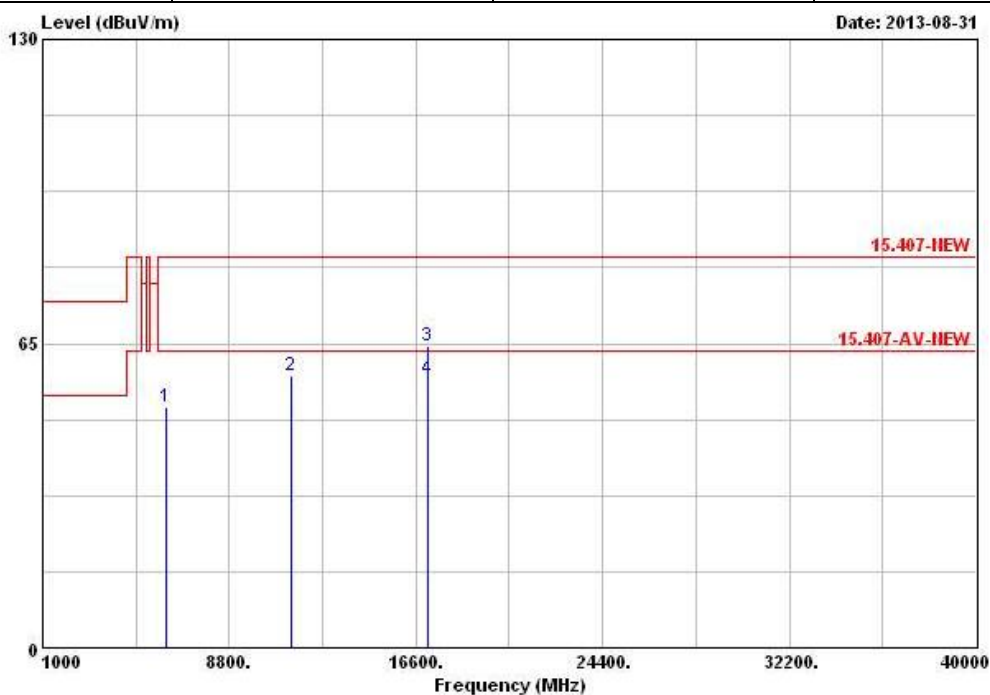
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Antenna 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	6150.000	51.28	-32.26	83.54	44.56	35.12	4.22	32.62	Peak	---	---
2	11400.000	58.22	-25.32	83.54	46.27	39.92	4.61	32.58	Peak	---	---
3	17099.580	64.38	-19.16	83.54	44.78	42.66	8.55	31.61	Peak	---	---
4	17099.580	57.34	-6.20	63.54	37.74	42.66	8.55	31.61	Average	---	---

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

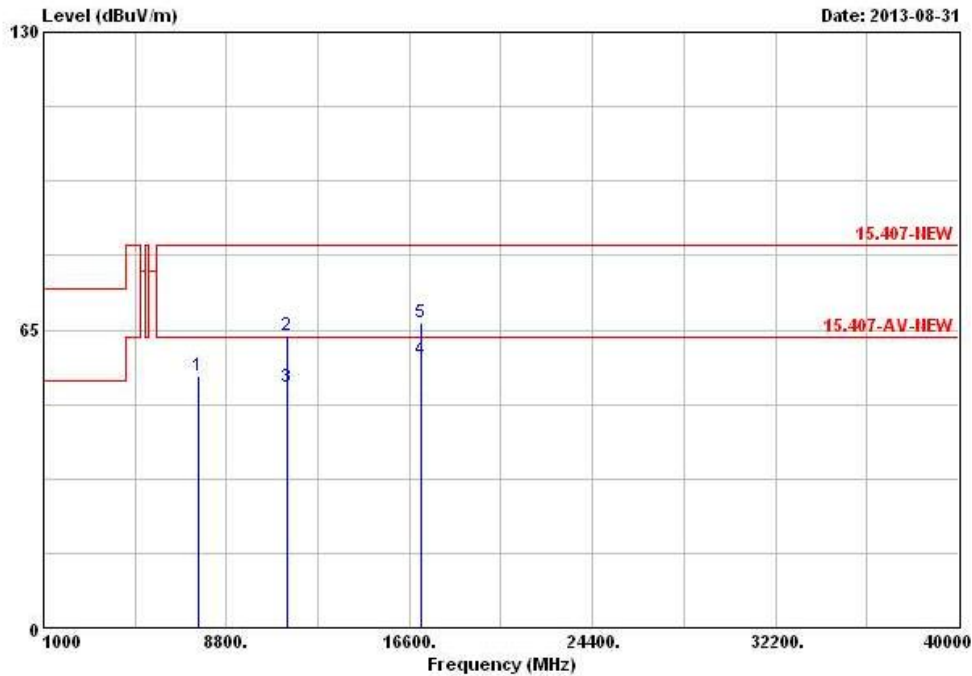
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	2	Polarization	H

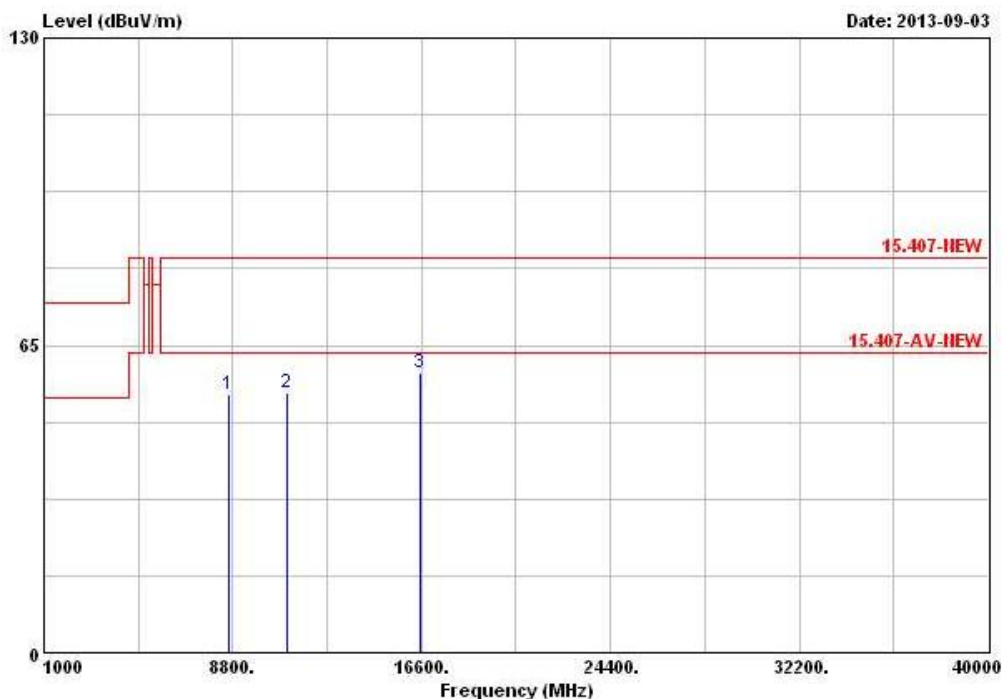


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7602.000	55.09	-28.45	83.54	46.57	37.40	4.06	32.94 Peak	---	---
2	11390.000	63.75	-19.79	83.54	51.84	39.89	4.60	32.58 Peak	---	---
3	11390.000	52.58	-10.96	63.54	40.67	39.89	4.60	32.58 Average	---	---
4	17100.000	58.46	-5.08	63.54	38.86	42.66	8.55	31.61 Average	---	---
5	17100.000	66.57	-16.97	83.54	46.97	42.66	8.55	31.61 Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N_{TX}	2	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	8658.000	54.46	-29.08	83.54	44.62	38.52	4.39	33.07	Peak	---	---
2	11020.420	54.94	-28.60	83.54	43.79	39.23	4.52	32.60	Peak	---	---
3	16530.000	59.02	-24.52	83.54	43.88	39.29	8.04	32.19	Peak	---	---

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

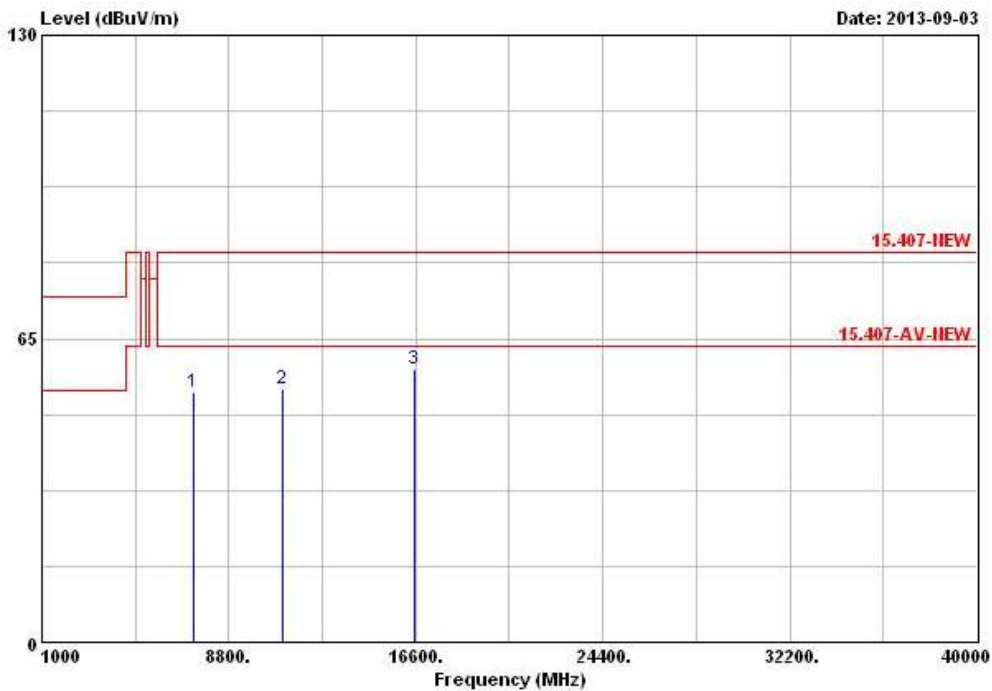
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N _{TX}	2	Polarization	H

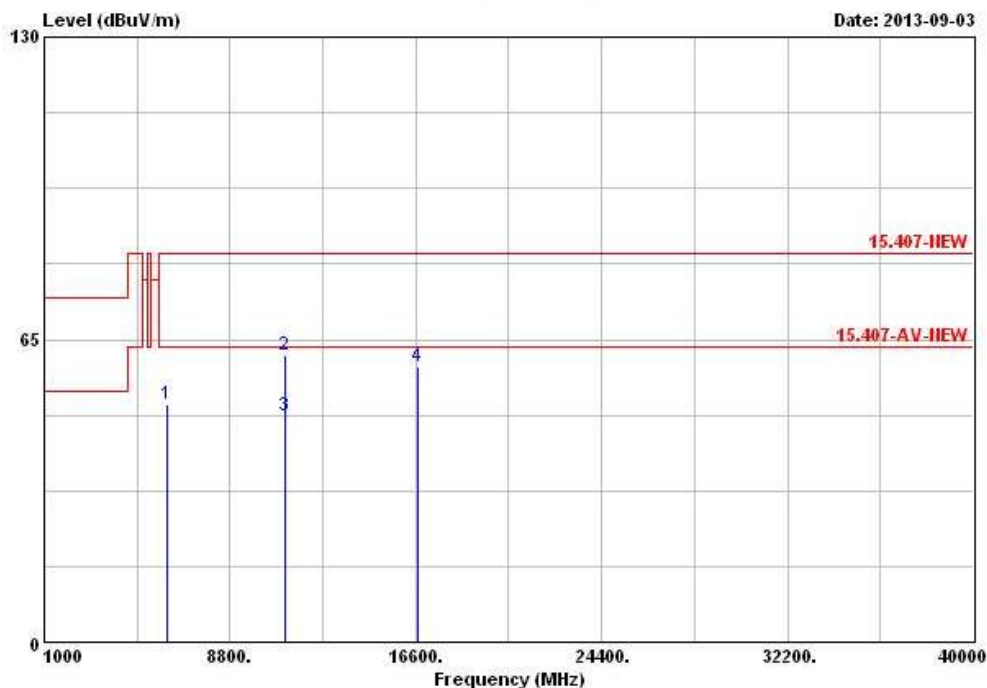


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7344.000	53.66	-29.88	83.54	45.25	37.08	4.21	32.88 Peak	---	---
2	11020.000	54.13	-29.41	83.54	42.98	39.23	4.52	32.60 Peak	---	---
3	16530.420	58.65	-24.89	83.54	43.51	39.29	8.04	32.19 Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N_{TX}	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamplifier Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	6150.000	51.21	-32.33	83.54	44.49	35.12	4.22	32.62 Peak	---	---
2	11096.000	61.66	-21.88	83.54	50.33	39.38	4.54	32.59 Peak	---	---
3	11096.000	48.57	-14.97	63.54	37.24	39.38	4.54	32.59 Average	---	---
4	16650.000	59.04	-24.50	83.54	43.01	39.94	8.11	32.02 Peak	---	---

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

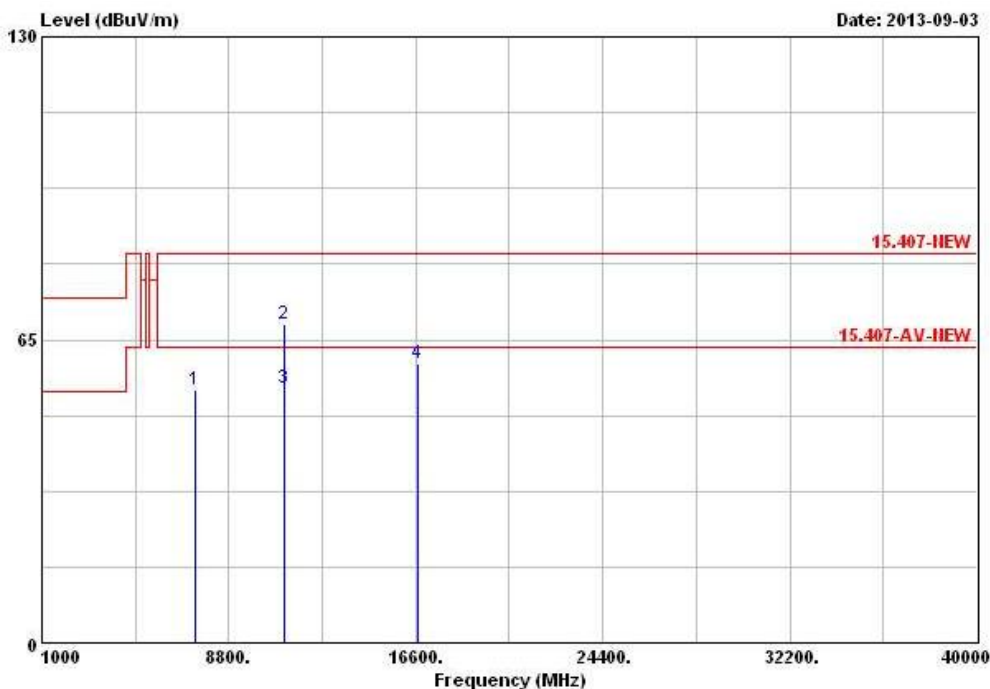
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N_{TX}	2	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	7398.000	54.16	-29.38	83.54	45.70	37.16	4.19	32.89	Peak	---	---
2	11094.000	68.28	-15.26	83.54	56.95	39.38	4.54	32.59	Peak	---	---
3	11094.000	54.65	-8.89	63.54	43.32	39.38	4.54	32.59	Average	---	---
4	16650.000	59.98	-23.56	83.54	43.95	39.94	8.11	32.02	Peak	---	---

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

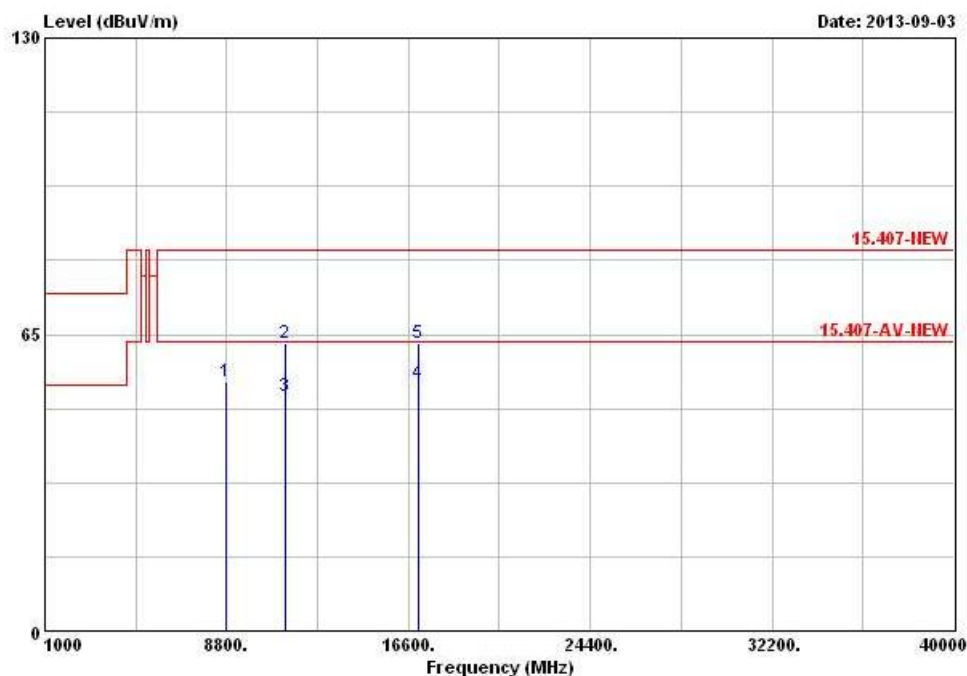
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N_{TX}	2	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	8790.000	54.52	-29.02	83.54	44.51	38.36	4.76	33.11	Peak	---	---
2	11336.000	63.07	-20.47	83.54	51.26	39.80	4.59	32.58	Peak	---	---
3	11336.000	51.35	-12.19	63.54	39.54	39.80	4.59	32.58	Average	---	---
4	17011.220	54.36	-9.18	63.54	35.61	41.94	8.40	31.59	Average	---	---
5	17011.220	62.91	-20.63	83.54	44.16	41.94	8.40	31.59	Peak	---	---

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

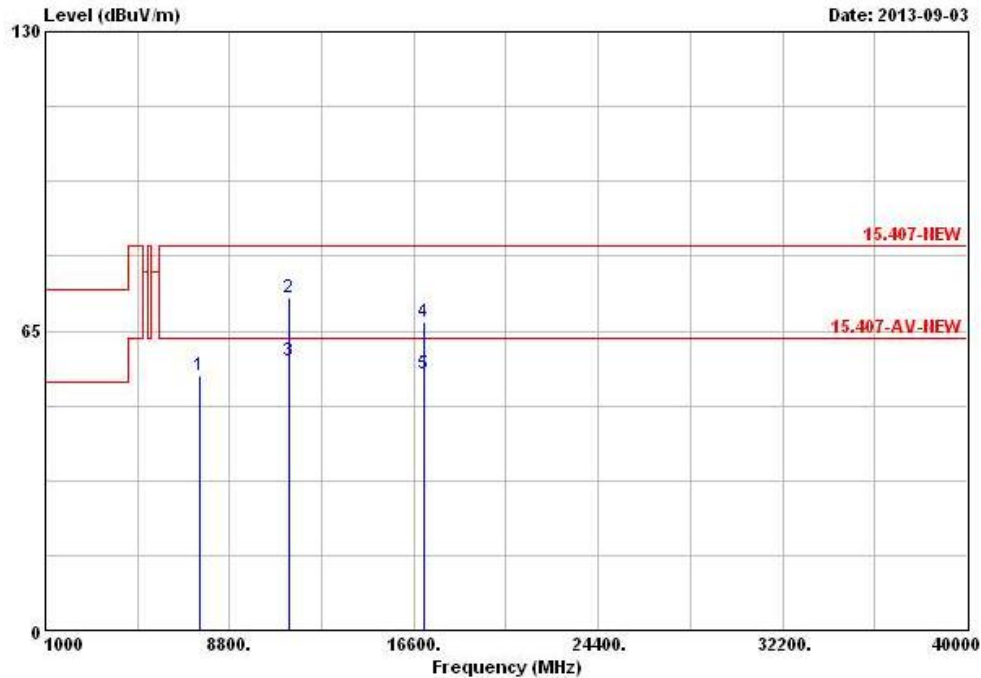
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N_{TX}	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7560.000	55.30	-28.24	83.54	46.77	37.37	4.09	32.93	Peak	---	---
2	11336.000	72.28	-11.26	83.54	60.47	39.80	4.59	32.58	Peak	---	---
3	11336.000	58.49	-5.05	63.54	46.68	39.80	4.59	32.58	Average	---	---
4	17010.000	67.07	-16.47	83.54	48.32	41.94	8.40	31.59	Peak	---	---
5	17010.000	55.56	-7.98	63.54	36.81	41.94	8.40	31.59	Average	---	---

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

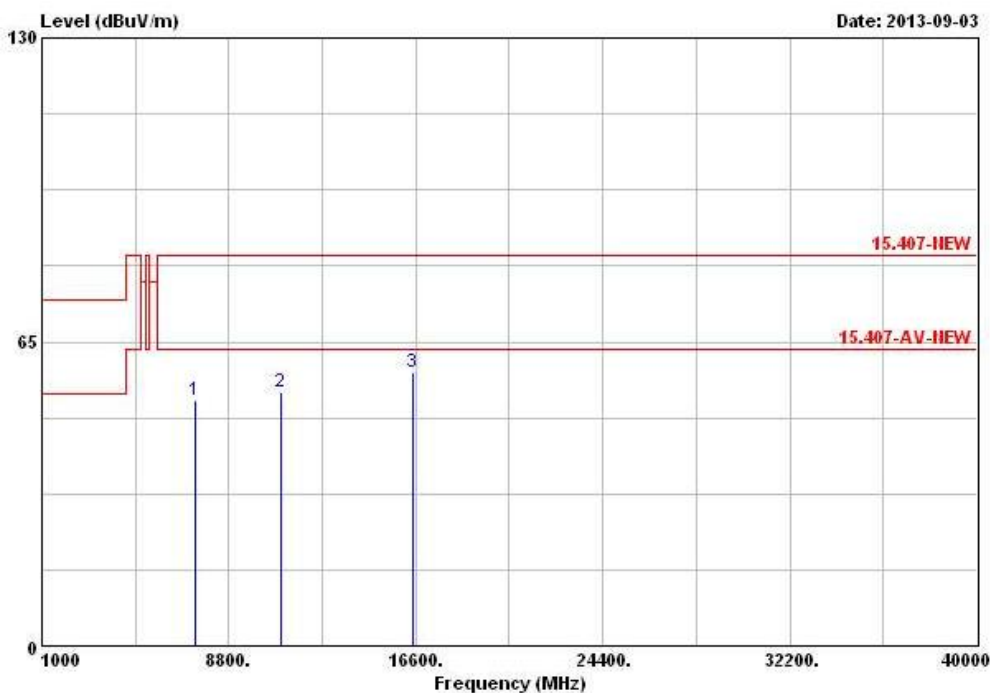
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N_{TX}	3	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	7428.000	52.54	-31.00	83.54	44.07	37.20	4.17	32.90	Peak	---	---
2	11000.000	54.40	-29.14	83.54	43.29	39.20	4.51	32.60	Peak	---	---
3	16499.580	58.45	-25.09	83.54	43.56	39.10	8.01	32.22	Peak	---	---

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

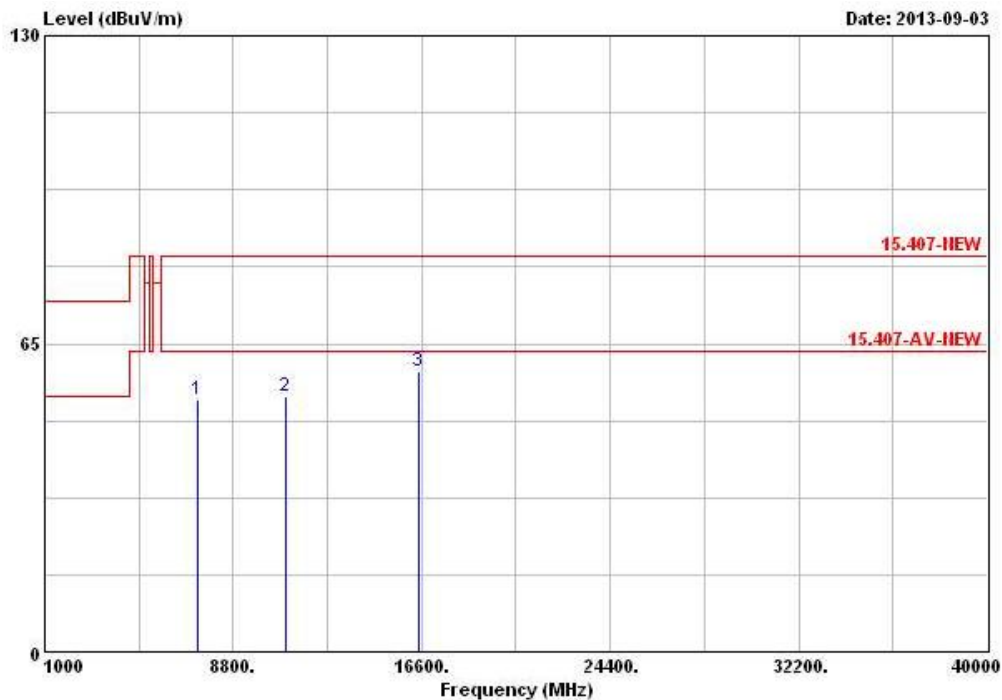
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N_{TX}	3	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	7332.000	53.37	-30.17	83.54	44.95	37.06	4.23	32.87	Peak	---	---
2	11000.000	54.07	-29.47	83.54	42.96	39.20	4.51	32.60	Peak	---	---
3	16500.000	59.18	-24.36	83.54	44.29	39.10	8.01	32.22	Peak	---	---

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

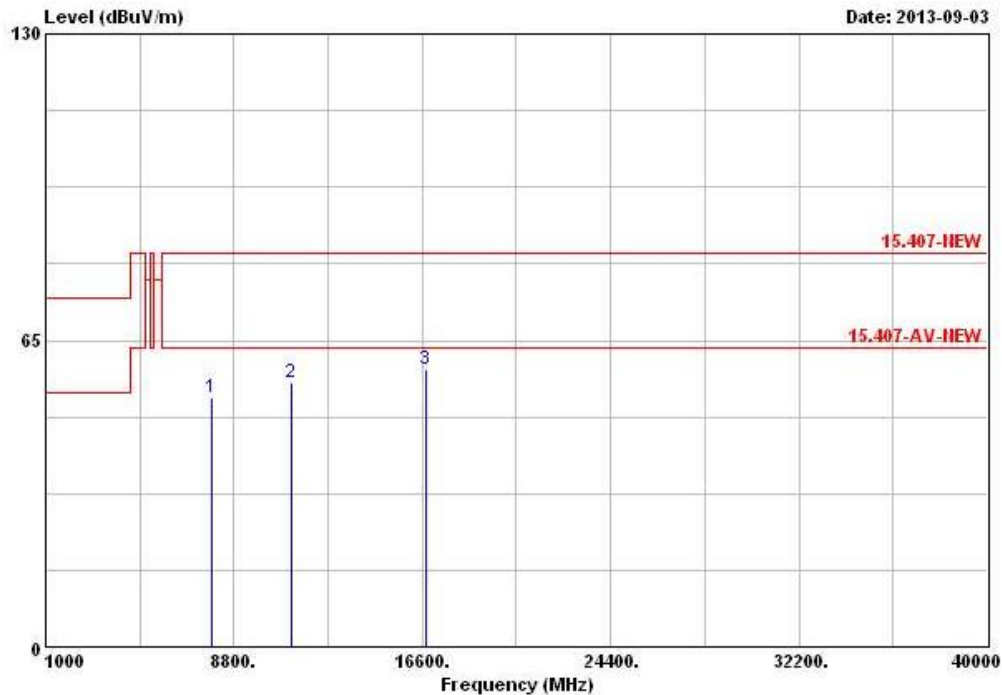
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N_{TX}	3	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	7890.000	52.92	-30.62	83.54	44.44	37.68	3.79	32.99	Peak	---	---
2	11160.000	55.98	-27.56	83.54	44.51	39.50	4.56	32.59	Peak	---	---
3	16740.000	58.90	-24.64	83.54	42.24	40.40	8.18	31.92	Peak	---	---

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

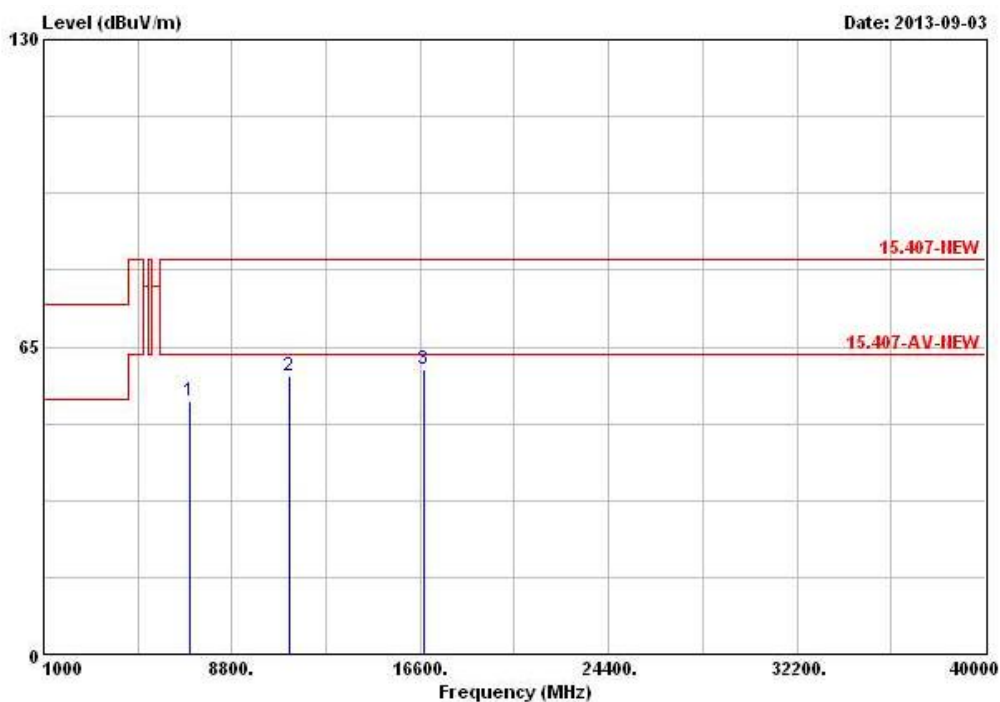
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
N _{TX}	3	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	7038.000	53.38	-30.16	83.54	45.14	36.65	4.37	32.78	Peak	---	---
2	11158.000	58.99	-24.55	83.54	47.53	39.50	4.55	32.59	Peak	---	---
3	16740.000	60.26	-23.28	83.54	43.60	40.40	8.18	31.92	Peak	---	---

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

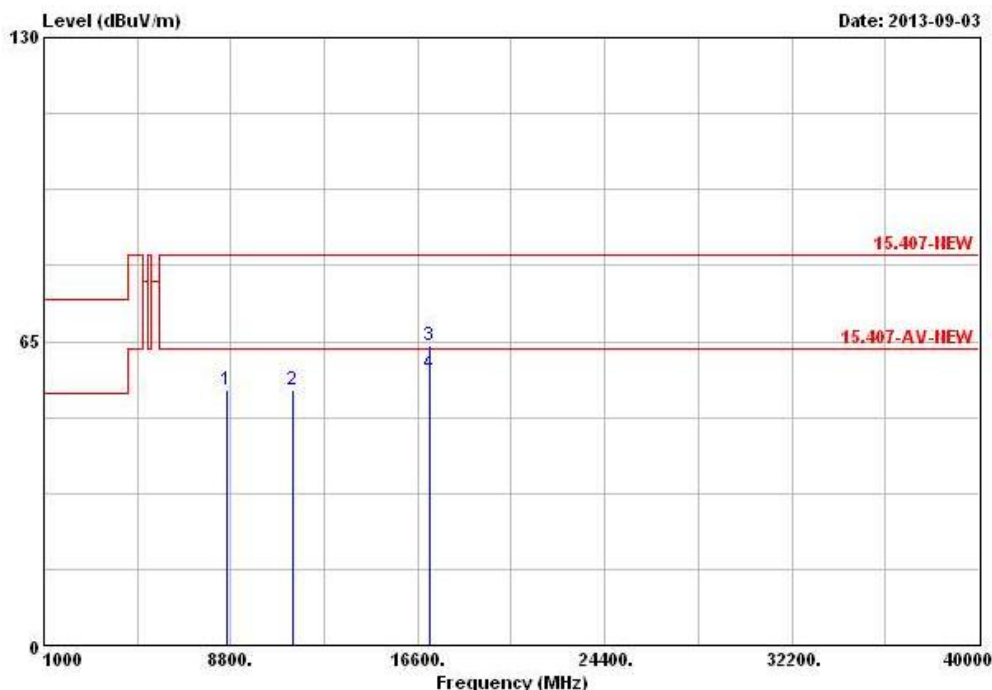
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	3	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	8646.000	54.58	-28.96	83.54	44.74	38.52	4.39	33.07	Peak	---	---
2	11400.780	54.66	-28.88	83.54	42.71	39.92	4.61	32.58	Peak	---	---
3	17100.000	64.08	-19.46	83.54	44.48	42.66	8.55	31.61	Peak	---	---
4	17100.000	58.29	-5.25	63.54	38.69	42.66	8.55	31.61	Average	---	---

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

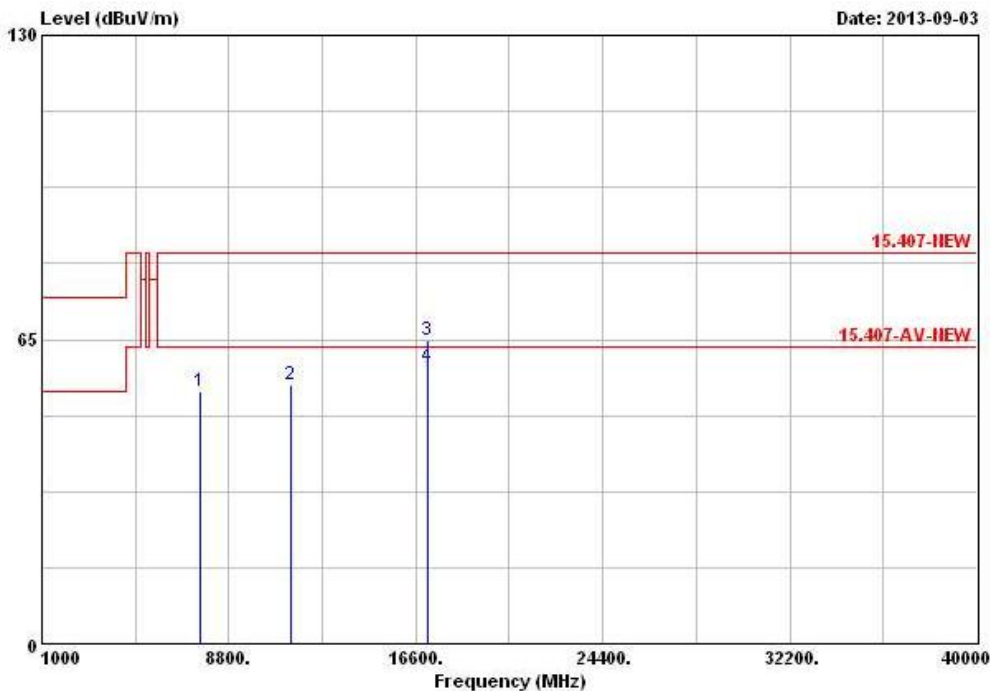
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
N_{TX}	3	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7602.000	54.07	-29.47	83.54	45.55	37.40	4.06	32.94	Peak	---	---
2	11398.780	55.39	-28.15	83.54	43.44	39.92	4.61	32.58	Peak	---	---
3	17100.220	64.86	-18.68	83.54	45.26	42.66	8.55	31.61	Peak	---	---
4	17100.220	59.33	-4.21	63.54	39.73	42.66	8.55	31.61	Average	---	---

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

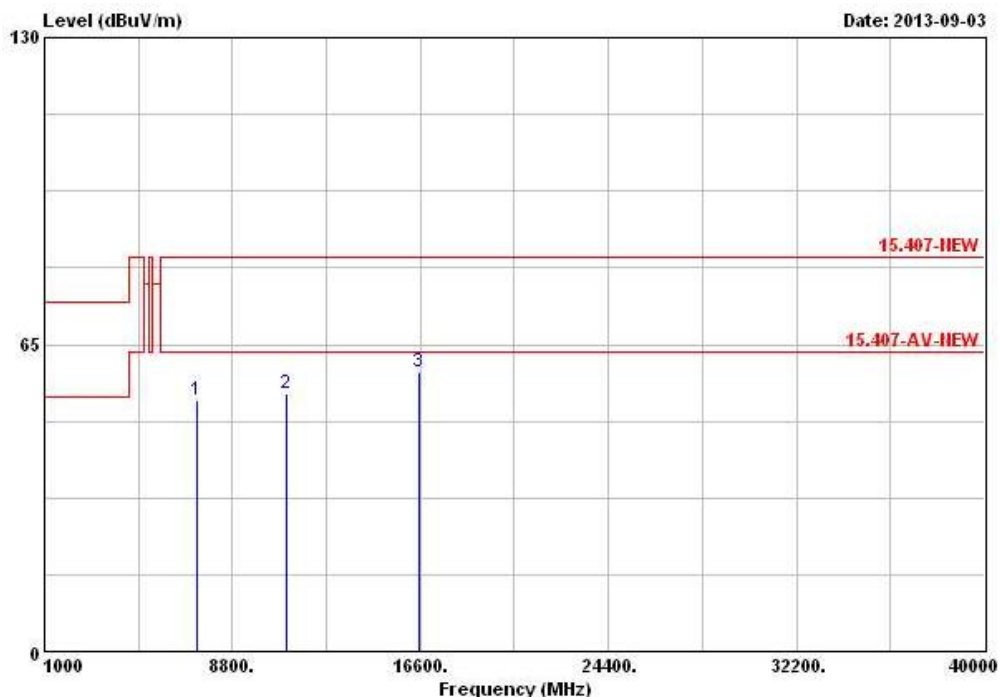
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N _{TX}	3	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	7344.000	53.06	-30.48	83.54	44.65	37.08	4.21	32.88	Peak	---	---
2	11020.000	54.55	-28.99	83.54	43.40	39.23	4.52	32.60	Peak	---	---
3	16530.620	59.26	-24.28	83.54	44.12	39.29	8.04	32.19	Peak	---	---

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

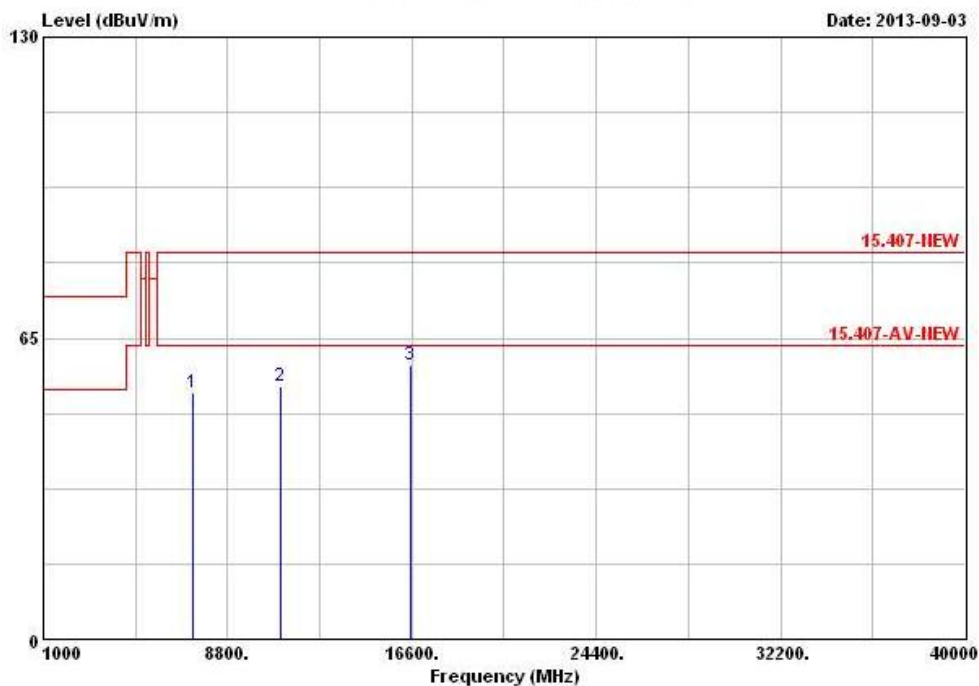
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N_{TX}	3	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	7344.000	53.34	-30.20	83.54	44.93	37.08	4.21	32.88	Peak	---	---
2	11020.000	54.52	-29.02	83.54	43.37	39.23	4.52	32.60	Peak	---	---
3	16530.380	59.16	-24.38	83.54	44.02	39.29	8.04	32.19	Peak	---	---

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

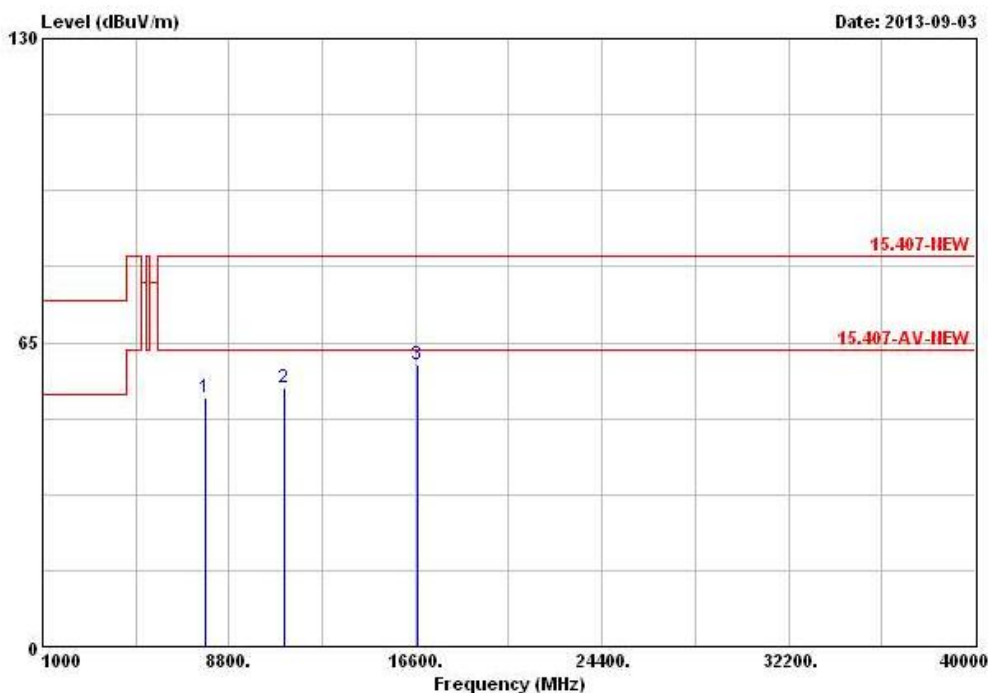
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N _{TX}	3	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	7794.000	53.13	-30.41	83.54	44.61	37.60	3.89	32.97	Peak	---	---
2	11100.000	55.47	-28.07	83.54	44.14	39.38	4.54	32.59	Peak	---	---
3	16650.000	60.41	-23.13	83.54	44.38	39.94	8.11	32.02	Peak	---	---

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

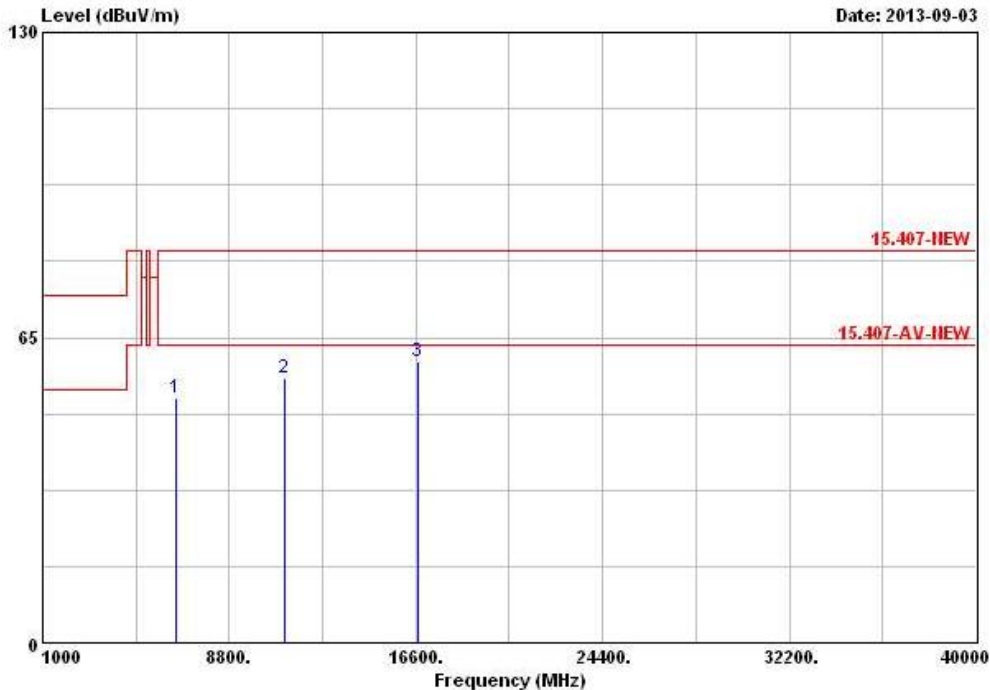
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N _{TX}	3	Polarization	H

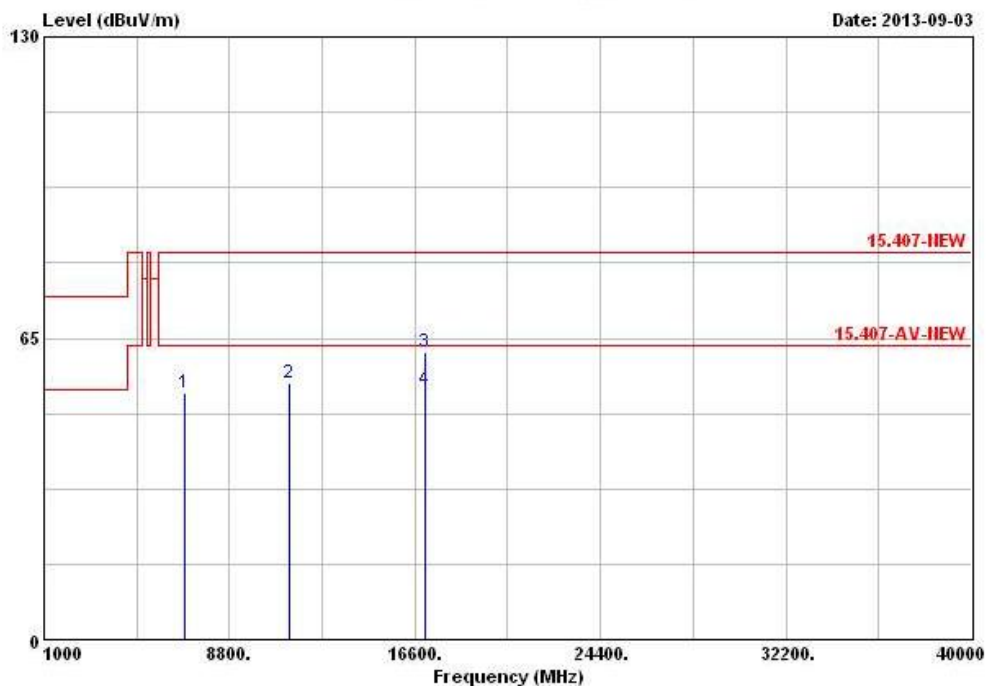


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	6576.000	52.15	-31.39	83.54	44.71	35.57	4.55	32.68	Peak	---	---
2	11100.000	56.49	-27.05	83.54	45.16	39.38	4.54	32.59	Peak	---	---
3	16650.000	60.00	-23.54	83.54	43.97	39.94	8.11	32.02	Peak	---	---

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N _{TX}	3	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	6900.000	53.10	-30.44	83.54	45.07	36.35	4.43	32.75	Peak	---	---
2	11338.780	55.39	-28.15	83.54	43.58	39.80	4.59	32.58	Peak	---	---
3	17010.000	61.96	-21.58	83.54	43.21	41.94	8.40	31.59	Peak	---	---
4	17010.000	53.78	-9.76	63.54	35.03	41.94	8.40	31.59	Average	---	---

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

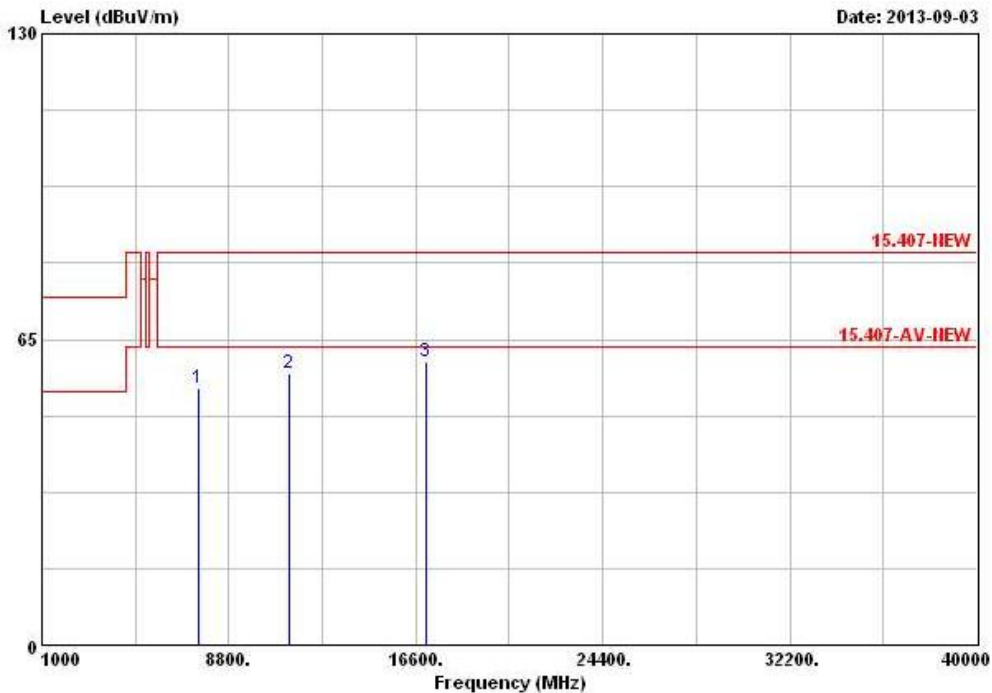
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N_{TX}	3	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	7560.000	54.50	-29.04	83.54	45.97	37.37	4.09	32.93	Peak	---	---
2	11340.000	57.88	-25.66	83.54	46.07	39.80	4.59	32.58	Peak	---	---
3	17010.000	60.39	-23.15	83.54	41.64	41.94	8.40	31.59	Peak	---	---

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

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

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

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

3.8 Frequency Stability

3.8.1 Frequency Stability Limit

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

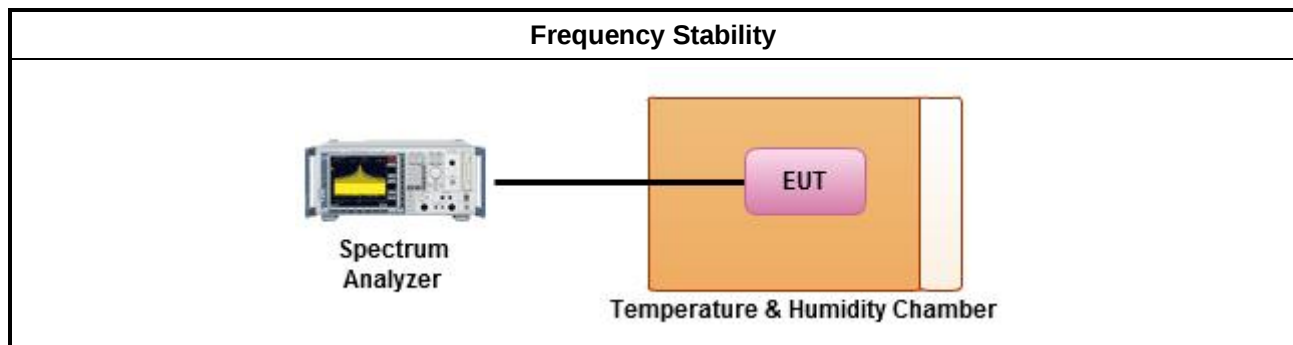
3.8.2 Measuring Instruments

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

3.8.3 Test Procedures

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

3.8.4 Test Setup



3.8.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		Frequency Stability (ppm)	
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)
T _{20°C} V _{max}	5300	5299.94096	-11.1396
T _{20°C} V _{min}	5300	5299.94139	-11.0585
T _{50°C} V _{nom}	5300	5299.93922	-11.4679
T _{40°C} V _{nom}	5300	5299.93227	-12.7792
T _{30°C} V _{nom}	5300	5299.93575	-12.1226
T _{20°C} V _{nom}	5300	5299.94616	-10.1585
T _{10°C} V _{nom}	5300	5299.95745	-8.0283
T _{0°C} V _{nom}	5300	5299.96787	-6.0623
T _{-10°C} V _{nom}	5300	5299.97829	-4.0962
T _{-20°C} V _{nom}	5300	5299.98263	-3.2774
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)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 18, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Nov. 09, 2012	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101013	9KHz ~ 40GHz	Jan. 29, 2013	Conducted (TH06-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	Conducted (TH06-HY)
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_103	10715/4 10716/4	30MHz ~ 26.5GHz	Dec. 04, 2012	Conducted (TH06-HY)
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_103	10709/4	30MHz ~ 26.5GHz	Dec. 04, 2012	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	03CH03-HY	30MHz ~ 1GHz 3m	Dec. 01, 2012	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May. 03, 2013	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02364	1GHz ~ 26.5GHz	May. 06, 2013	Radiation (03CH03-HY)
Amplifier	EM	EM18G40G	060572	18GHz ~ 40GHz	Jan.20.2013	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 14, 2012	Radiation (03CH03-HY)
Receiver	R&S	ESU26	1302.6005.26	20Hz ~ 26.5GHz	Apr. 02, 2013	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 22, 2012	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 31, 2013	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9MHz ~ 1GHz	Jan. 17, 2013	Radiation (03CH03-HY)
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Jan. 17, 2013	Radiation (03CH03-HY)
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation (03CH03-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation (03CH03-HY)

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