

FCC Test Report

Equipment : Wireless N900 Dual Band USB Adapter
Brand Name : D-LINK
Model No. : DWA-162
FCC ID : KA2WA162A1
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
Equipment Class : NII
Applicant : D-Link Corporation
Manufacturer : No. 289, Xinhua 3rd Rd., Neihu District,
Taipei City 11494, Taiwan
Operate Mode : Client without radar detection

The product sample received on Oct. 27, 2012 and completely tested on Dec. 15, 2012. 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]: 0.15MHz 29.08 (Margin 26.92dB) - AV 50.85 (Margin 15.15dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M: 29.66 / 40M: 53.60	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz: 16.85 5250-5350MHz: 20.27 5470-5725MHz: 20.52	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: 3.96 5250-5350MHz: 8.81 5470-5725MHz: 8.78	PPSD [dBm/MHz] 5150-5250MHz:4 5250-5350MHz:11 5470-5725MHz:11	Complied
3.5	15.407(a)	Peak Excursion	9.43 dB	13 dB	Complied
3.6	15.407(b)	Transmitter Radiated Bandedge Emissions	Restricted Bands [dBuV/m at 1m]: 5470.00MHz 76.79(Margin 1.05dB) - PK 62.94 (Margin 14.9dB) - AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(b)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 1m]: 15600MHz 60.49 (Margin 3.05dB) - PK	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.8	15.407(g)	Frequency Stability	8.52 ppm	Signal shall remain in-band	Complied



SPORTON INTERNATIONAL INC.
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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 / 3	15.43	N/A
5250-5350		5260-5320	52-64 [4]	1 / 3	20.27	
5470-5725		5500-5700	100-140 [8]	1 / 3	20.12	
5150-5250	n (HT-20)	5180-5240	36-48 [4]	1 / 3	15.75	N/A
5250-5350		5260-5320	52-64 [4]	1 / 3	20.10	
5470-5725		5500-5700	100-140 [8]	1 / 3	20.52	
5150-5250	n (HT-40)	5190-5230	38-46 [2]	1 / 3	16.85	N/A
5250-5350		5270-5310	54-62 [2]	1 / 3	20.02	
5470-5725		5510-5670	102-134 [3]	1 / 3	20.33	
Note 1: RF output power specifies that Maximum Conducted Output Power.						
Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.						
Note 3: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)						

1.1.2 Antenna Information

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

Antenna General Information			
No.	Ant. Cat.	Ant. Type	Gain (dBi)
1	Integral	Printed	1.96
2	Integral	PCB	2.00
3	Integral	PCB	2.00

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 (HT-20)	0
☒ 100.00% - IEEE 802.11n (HT-40)	0

1.1.5 EUT Operational Condition

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

1.2 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		3.2.11.0	
Communication Mode		☒ IP Based (Load Based)	☐ Frame Based
IEEE Std. 802.11	Frequency Range (MHz)	TPC (Transmit Power Control)	Passive Scan
a	☒ 5250-5350	No	Yes
n (HT20)	☒ 5470-5725	No	Yes
n (HT40)	☐ 5600-5650	-	-

1.3 Accessories and Support Equipment

Accessories				
No.	Equipment	Brand Name	Model Name	Serial No.
1	USB Cable	-	-	-

Support Equipment AC Line Conducted Emission And Radiated Below 1GHz Test				
No.	Equipment	Brand Name	Model Name	Serial No.
1	Notebook	DELL	E5520	DoC
2	iPod	Apple	A1199	DoC
3	USB Mouse	Microsoft	1004	DoC

Support Equipment Radiated Above 1GHz Test				
No.	Equipment	Brand Name	Model Name	Serial No.
1	Notebook	DELL	E5520	DoC

1.4 Testing Applied Standards

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

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

1.5 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
RF Conducted		TH01-HY	Shiming	20.1°C / 45%
AC Conduction		CO04-HY	Bill	24.8°C / 54%
Radiated Emission		03CH02-HY	Daniel	25.8°C / 52%
				30-Oct.-12 ~09-Dec.-12

1.6 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing (5150-5250MHz)				
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS	Output Power (dBm)
11a,6-54Mbps	1 / 3	6-54Mbps	6 Mbps	15.43
HT-20	1 / 3	M0-7 /M16-23	MCS 0	20.27
HT-40	1 / 3	M0-7 /M16-23	MCS 0	20.12
Worst Modulation Used for Conformance Testing (5250-5350MHz)				
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS	Output Power (dBm)
11a,6-54Mbps	1 / 3	6-54Mbps	6 Mbps	15.75
HT-20	1 / 3	M0-7 /M16-23	MCS 0	20.10
HT-40	1 / 3	M0-7 /M16-23	MCS 0	20.52
Worst Modulation Used for Conformance Testing (5470-5725MHz)				
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS	Output Power (dBm)
11a,6-54Mbps	1 / 3	6-54Mbps	6 Mbps	16.85
HT-20	1 / 3	M0-7 /M16-23	MCS 0	20.02
HT-40	1 / 3	M0-7 /M16-23	MCS 0	20.33
Note 1: IEEE Std. 802.11n modulation consists of HT-20 and HT-40 (HT: High Throughput). Then EUT support HT-20 and HT-40. Worst modulation mode of Guard Interval (GI) is 800ns.				
Note 2: Modulation modes consist of below configuration: 11a: IEEE 802.11a, HT-20/HT-40: IEEE 802.11n.				

2.2 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration		
Frequency Range (MHz)	IEEE Std. 802.11	Test Channel Freq. (MHz) – FX (Frequencies Abbreviations)
5150-5250	a, n (HT-20)	5180-(F1), 5200-(F2), 5240-(F3)
5250-5350	a, n (HT-20)	5260-(F4), 5300-(F5), 5320-(F6)
5470-5725	a, n (HT-20)	5500-(F7), 5580-(F8), 5700-(F9)
5150-5250	n (HT-40)	5190-(F1'), 5230-(F2')
5250-5350	n (HT-40)	5270-(F4'), 5310-(F5')
5470-5725	n (HT-40)	5510-(F7'), 5550-(F8'), 5670-(F9')

2.3 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250 MHz band)							
Test Software Version	Ralink QA_1.0.1.5						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5180	5200	5240	5190	5230	-
11a,6-54Mbps	1	18	1A	1A	-	-	-
11a,6-54Mbps	3	11,12,0F	11,11,0F	10,11,0F	-	-	-
HT-20,M0-7	1	1B	1B	1B	-	-	-
HT-20,M16-23	3	13,14,11	13,14,11	12,13,11	-	-	-
HT-40,M0-7	1	-	-	-	1D	1F	-
HT-40,M16-23	3	-	-	-	16,17,15	17,18,16	-

The Worst Case Power Setting Parameter (5250-5350 MHz band)							
Test Software Version	Ralink QA_1.0.1.5						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5260	5300	5320	5270	5310	-
11a,6-54Mbps	1	1F	1F	1E	-	-	-
11a,6-54Mbps	3	1A,1B,1A	18,1A,19	11,11,11	-	-	-
HT-20,M0-7	1	1F	1F	1F	-	-	-
HT-20,M16-23	3	1C,1E,1A	1B,1C,1B	12,12,12	-	-	-
HT-40,M0-7	1	-	-	-	1F	1F	-
HT-40,M16-23	3	-	-	-	1C,1E,1C	13,13,13	-

The Worst Case Power Setting Parameter (5470-5725 MHz band)							
Test Software Version	Ralink QA_1.0.1.5						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	1	18	1F	1F	-	-	-
11a,6-54Mbps	3	12,12,12	1E,1E,1F	18,1F,1F			
HT-20,M0-7	1	1F	1F	1F	-	-	-
HT-20,M16-23	3	12,12,11	1E,1E,1F	17,1E,1E	-	-	-
HT-40,M0-7	1	-	-	-	1E	1F	1F
HT-40,M16-23	3	-	-	-	18,18,18	1E,1F,1F	16.5,16.5

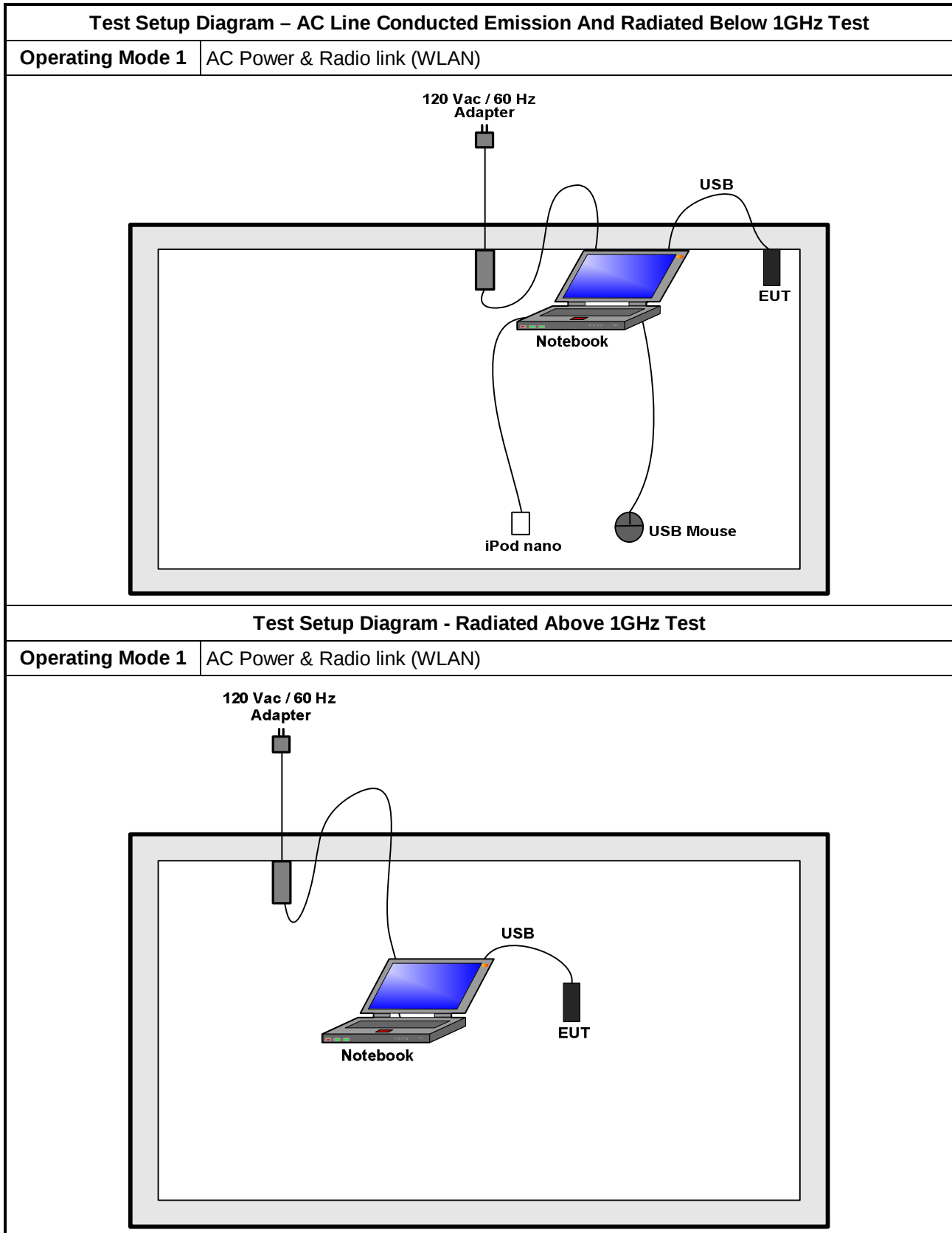
2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN)

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, HT-20, HT-40

The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	☐ EUT will be placed in fixed position.		
	☒ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is Y.		
	☐ 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 < 1GHz	☒ 1. AC Power & Radio link (WLAN)		
Modulation Mode	11b, 11g, HT-20, HT-40		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

2.5 Test Setup Diagram



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.

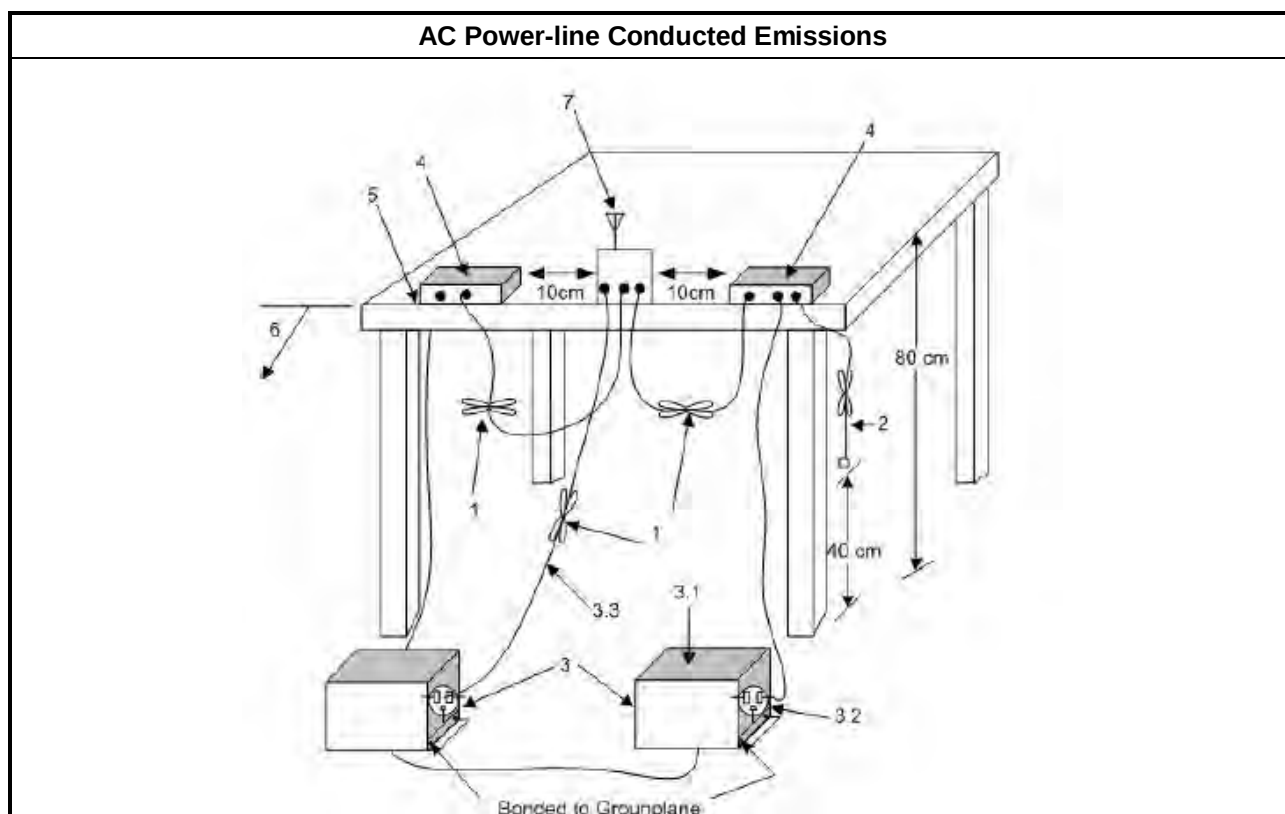
3.1.2 Measuring Instruments

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

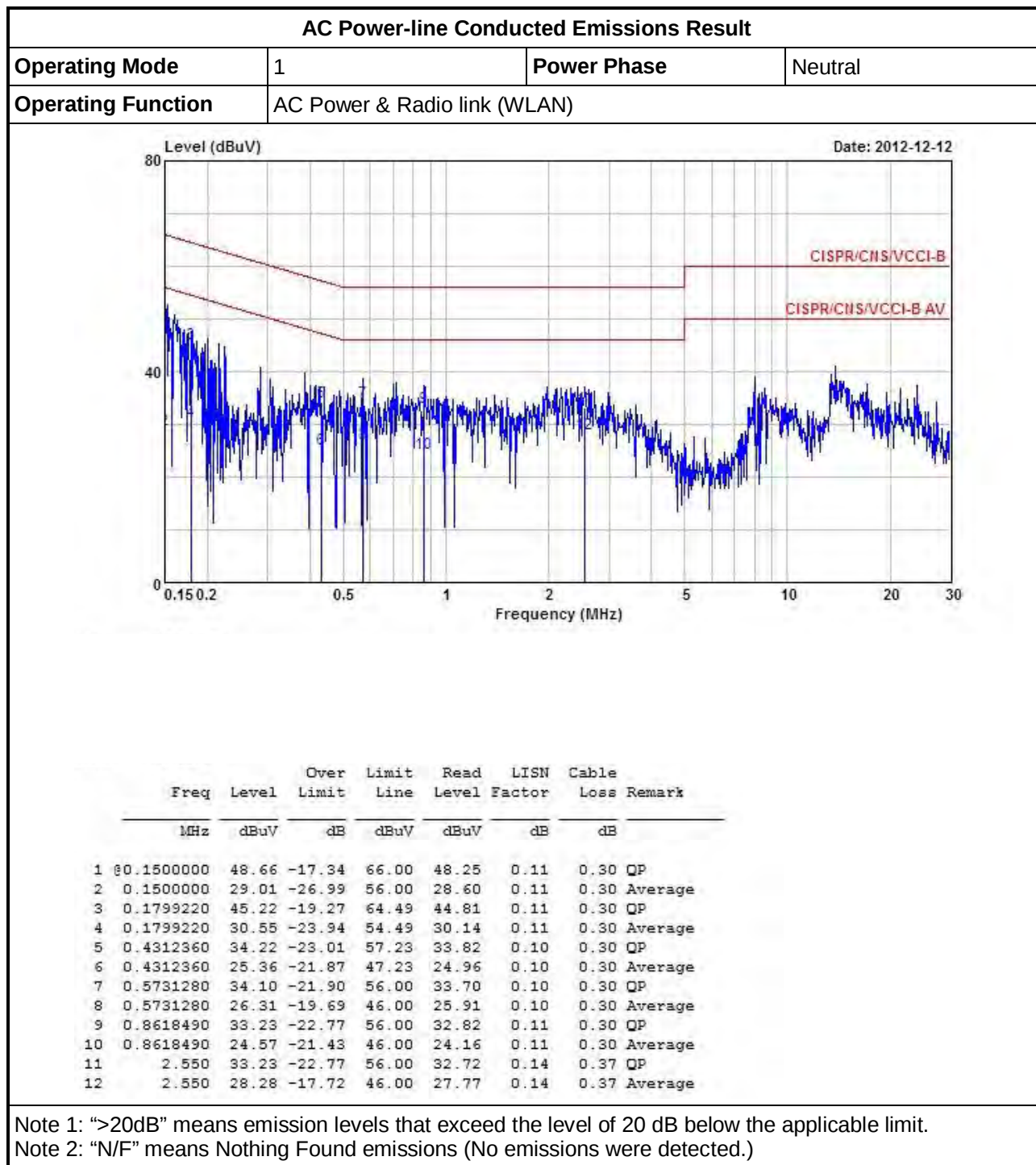
3.1.3 Test Procedures

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

3.1.4 Test Setup

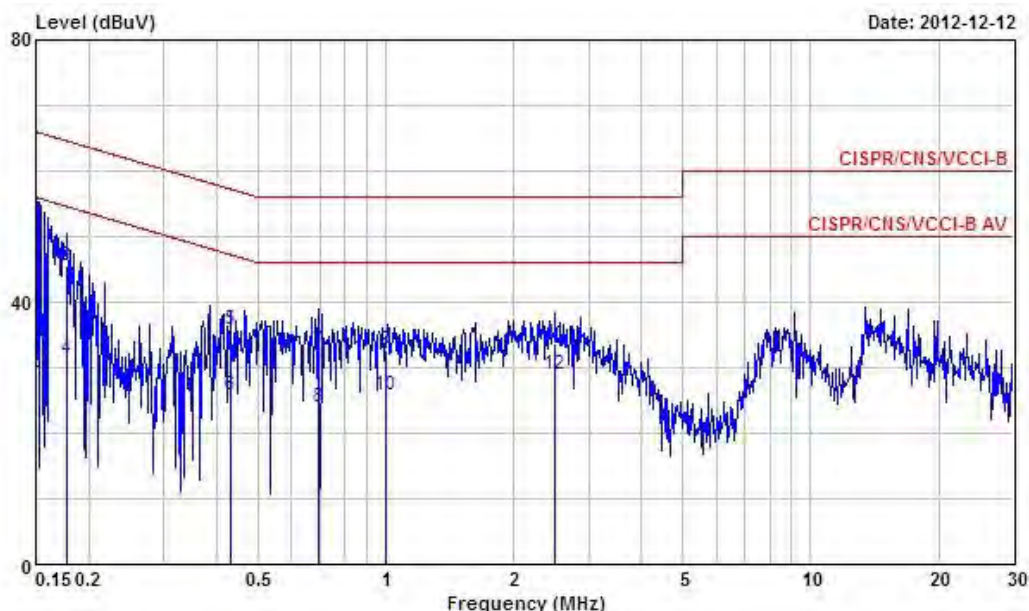


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	AC Power & Radio link (WLAN)		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1500000	50.85	-15.15	66.00	50.31	0.24	0.30	QP
2	0.1500000	29.08	-26.92	56.00	28.54	0.24	0.30	Average
3	0.1777150	45.55	-19.04	64.59	45.02	0.23	0.30	QP
4	0.1777150	31.26	-23.33	54.59	30.73	0.23	0.30	Average
5	0.4322350	35.74	-21.47	57.21	35.22	0.22	0.30	QP
6	0.4322350	25.78	-21.43	47.21	25.26	0.22	0.30	Average
7	0.6943680	32.51	-23.49	56.00	31.98	0.23	0.30	QP
8	0.6943680	24.02	-21.98	46.00	23.49	0.23	0.30	Average
9	1.000	32.74	-23.26	56.00	32.21	0.23	0.30	QP
10	1.000	25.68	-20.32	46.00	25.15	0.23	0.30	Average
11	2.500	33.69	-22.31	56.00	33.06	0.26	0.37	QP
12	2.500	29.02	-16.98	46.00	28.39	0.26	0.37	Average

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

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

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

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

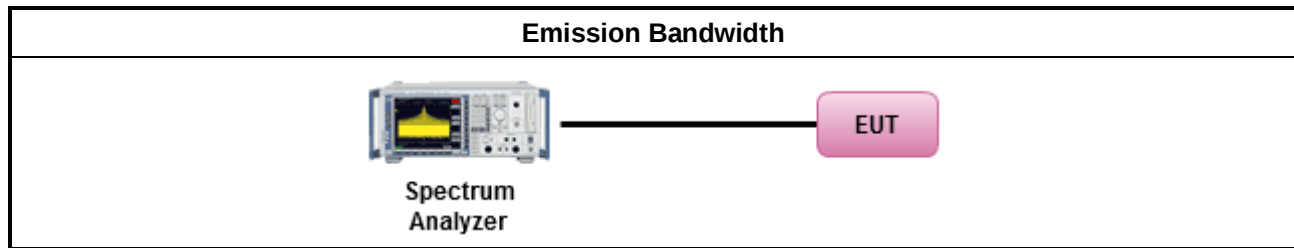
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
☒	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as FCC KDB 789033, clause D for EBW 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	16.46	-	-	-	18.89	-	-	-	16.16	16.76
11a	1	5200	16.69	-	-	-	20.66	-	-	-	16.22	17.00
11a	1	5240	16.42	-	-	-	21.63	-	-	-	16.15	17.00
11a	3	5180	16.52	16.64	16.54	-	18.89	19.88	18.68	-	16.18	16.71
11a	3	5200	16.69	16.45	16.40	-	19.19	18.93	18.57	-	16.15	16.69
11a	3	5240	16.45	16.57	16.49	-	18.38	18.98	18.63	-	16.16	16.64
HT-20	1	5180	17.62	-	-	-	19.49	-	-	-	16.46	16.90
HT-20	1	5200	17.45	-	-	-	19.37	-	-	-	16.42	16.87
HT-20	1	5240	17.62	-	-	-	19.65	-	-	-	16.46	16.93
HT-20	3	5180	17.50	17.57	17.56	-	19.53	19.46	19.23	-	16.43	16.84
HT-20	3	5200	17.48	17.59	17.54	-	19.26	19.31	19.43	-	16.43	16.85
HT-20	3	5240	17.53	17.57	17.54	-	19.22	19.52	19.34	-	16.44	16.84
HT-40	1	5190	36.26	-	-	-	39.36	-	-	-	17.00	17.00
HT-40	1	5230	36.06	-	-	-	45.96	-	-	-	17.00	17.00
HT-40	3	5190	36.06	36.06	35.94	-	39.00	38.96	38.52	-	17.00	17.00
HT-40	3	5230	35.98	36.14	36.14	-	39.52	40.12	40.52	-	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	16.87	-	-	-	28.98	-	-	-	20.27	21.00
11a	1	5300	16.87	-	-	-	28.59	-	-	-	20.27	21.00
11a	1	5320	17.17	-	-	-	29.19	-	-	-	20.35	21.00
11a	3	5260	16.67	16.66	16.43	-	18.92	19.43	18.86	-	20.16	20.75
11a	3	5300	16.70	16.46	16.49	-	21.81	19.26	18.77	-	20.16	20.73
11a	3	5320	16.52	16.61	16.55	-	18.77	19.17	19.10	-	20.18	20.73
HT-20	1	5260	17.72	-	-	-	24.54	-	-	-	20.48	21.00
HT-20	1	5300	17.75	-	-	-	26.85	-	-	-	20.49	21.00
HT-20	1	5320	17.84	-	-	-	29.66	-	-	-	20.51	21.00
HT-20	3	5260	17.80	17.68	17.59	-	21.50	24.66	19.58	-	20.45	20.92
HT-20	3	5300	17.63	17.62	17.60	-	25.01	21.65	19.55	-	20.46	20.91
HT-20	3	5320	17.63	17.54	17.57	-	19.58	19.25	19.85	-	20.44	20.84
HT-40	1	5270	36.34	-	-	-	48.84	-	-	-	21.00	21.00
HT-40	1	5310	36.38	-	-	-	53.60	-	-	-	21.00	21.00
HT-40	3	5270	36.26	36.22	36.10	-	40.00	40.04	39.04	-	21.00	21.00
HT-40	3	5310	35.90	35.98	35.98	-	39.16	39.28	39.28	-	21.00	21.00
Result			Complied									

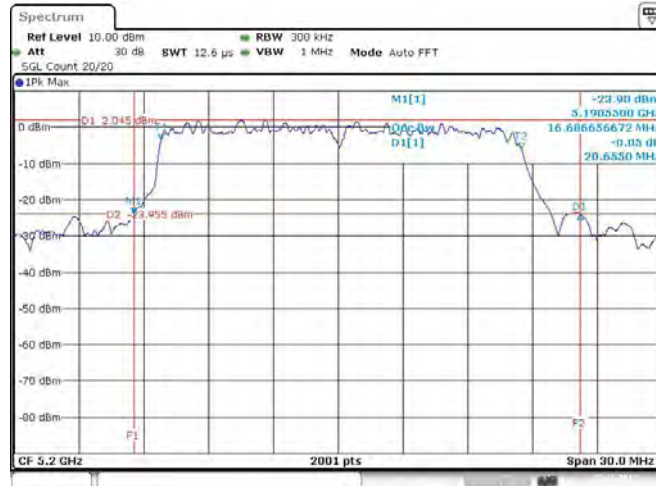
UNII Emission Bandwidth Result (5470-5725MHz band)												
Condition			Emission Bandwidth (MHz)									
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth				26dB Bandwidth				Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Chain-Port 1	Chain-Port 2	Chain-Port 3	-	99% BW	26dB BW
11a	1	5500	16.55	-	-	-	19.79	-	-	-	20.19	20.96
11a	1	5580	16.48	-	-	-	18.74	-	-	-	20.17	20.73
11a	1	5700	16.96	-	-	-	22.11	-	-	-	20.29	21.00
11a	3	5500	16.51	16.84	16.55	-	18.57	19.70	18.93	-	20.18	20.69
11a	3	5580	16.51	16.57	16.55	-	20.63	20.78	19.23	-	20.18	20.84
11a	3	5700	16.72	16.70	16.58	-	22.14	23.73	18.92	-	20.20	20.77
HT-20	1	5500	17.72	-	-	-	29.87	-	-	-	20.48	21.00
HT-20	1	5580	17.53	-	-	-	19.29	-	-	-	20.44	20.85
HT-20	1	5700	17.66	-	-	-	19.92	-	-	-	20.47	20.99
HT-20	3	5500	17.45	17.59	17.63	-	19.26	19.52	19.82	-	20.42	20.85
HT-20	3	5580	17.57	17.69	17.60	-	22.61	20.76	19.70	-	20.45	20.94
HT-20	3	5700	17.54	17.68	17.59	-	19.41	20.04	19.22	-	20.44	20.84
HT-40	1	5510	36.14	-	-	-	39.52	-	-	-	21.00	21.00
HT-40	1	5550	36.58	-	-	-	41.32	-	-	-	21.00	21.00
HT-40	1	5670	36.14	-	-	-	39.00	-	-	-	21.00	21.00
HT-40	3	5510	35.70	36.02	36.22	-	39.00	39.44	40.12	-	21.00	21.00
HT-40	3	5550	36.30	36.14	36.14	-	46.40	39.32	43.04	-	21.00	21.00
HT-40	3	5670	36.06	36.10	36.22	-	39.16	39.32	40.76	-	21.00	21.00
Result			Complied									



5150-5250MHz

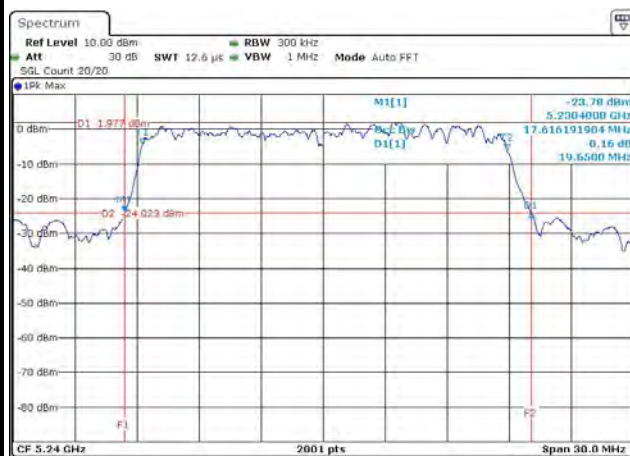
Worst Emission Bandwidth Plots

11a



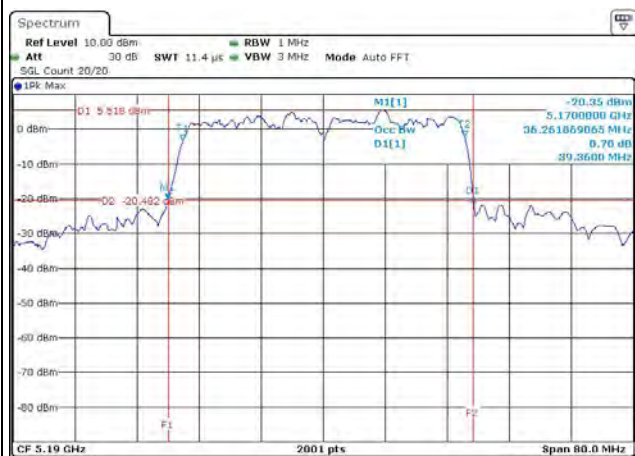
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HT-20



Date: 15.DEC.2012 11:54:57

HT-40



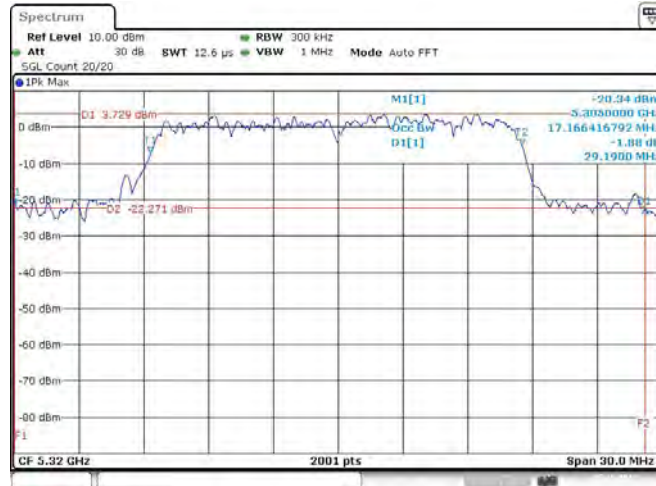
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5250-5350MHz

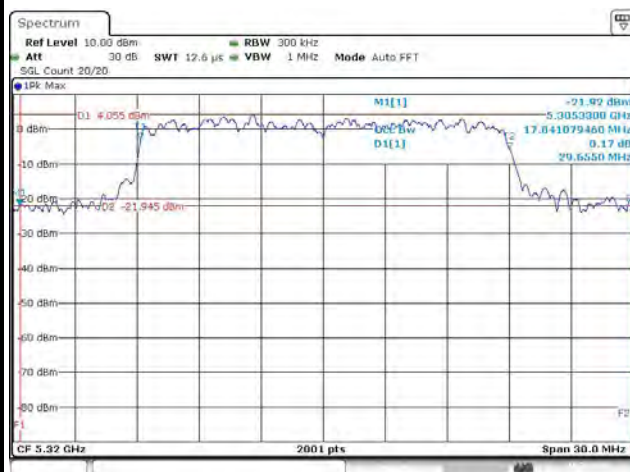
Worst Emission Bandwidth Plots

11a



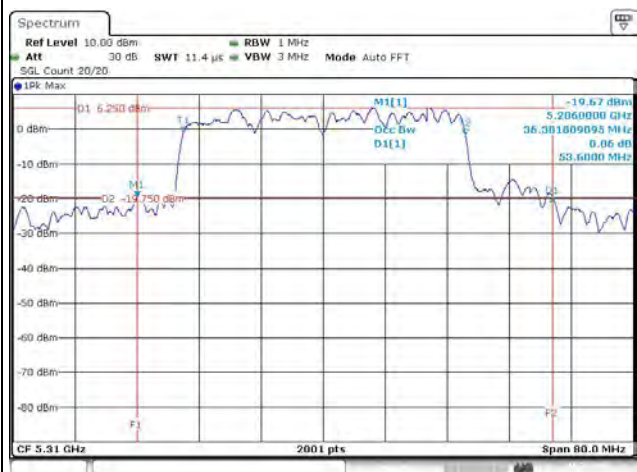
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HT-20



Date: 15.DEC.2012 11:58:29

HT-40



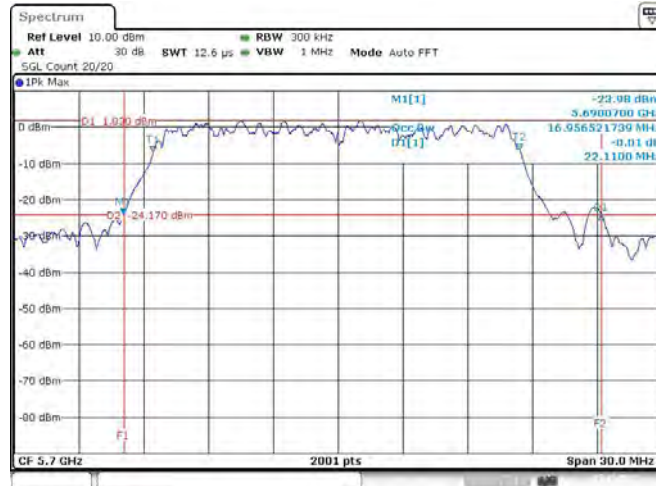
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5470-5725MHz

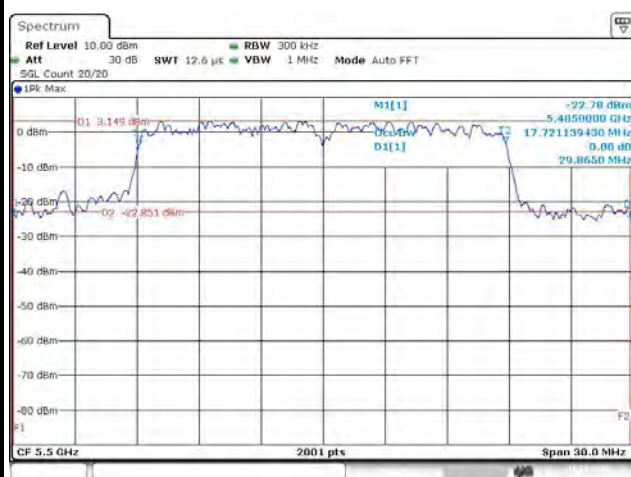
Worst Emission Bandwidth Plots

11a



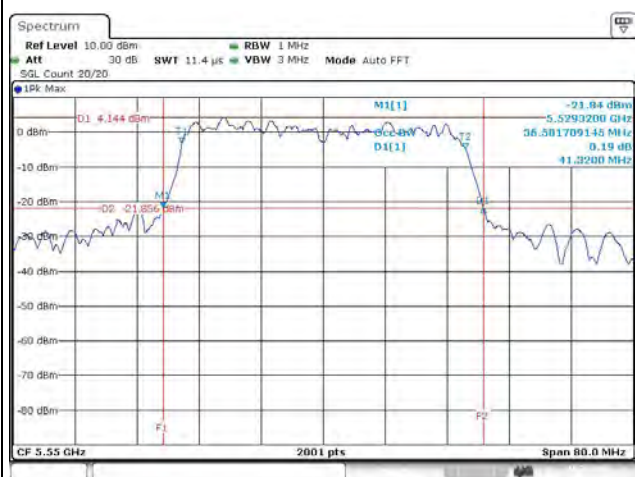
Date: 15.DEC.2012 11:47:56

HT-20



Date: 15.DEC.2012 11:59:50

HT-40



Date: 15.DEC.2012 12:19:05

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 $4 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, 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 $17 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6 \text{ dBi}$, 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 $17 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 23 \text{ dBi}$, 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. $> 36 \text{ dBm}$, $G_{TX} \leq P_{Out}$
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

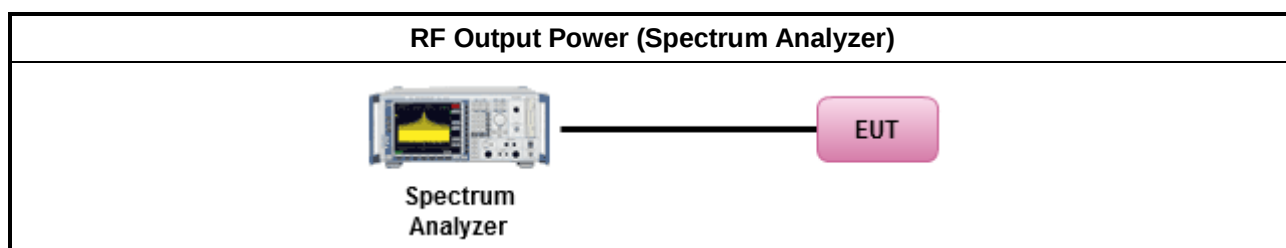
3.3.2 Measuring Instruments

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 C Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause C 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 C Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause C 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 C 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)		1.96	2.00	2.00	-
Modulation Mode	DG (dBi)	N_{TX}	N_{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	2.00	1	1	-	-
11a,6-54Mbps	1.99	3	3	-	-
HT-20,M0-7	2.00	1	1	-	-
HT-20,M16-23	1.99	3	3	-	-
HT-40,M0-7	2.00	1	1	-	-
HT-40,M16-23	1.99	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	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5180	15.17	-	-	-	15.17	16.76	2.00	17.17	22.16
11a	1	5200	15.43	-	-	-	15.43	17.00	2.00	17.43	22.22
11a	1	5240	15.21	-	-	-	15.21	17.00	2.00	17.21	22.15
11a	3	5180	9.99	9.89	9.63	-	14.61	16.71	1.99	16.60	22.18
11a	3	5200	10.29	9.66	9.79	-	14.69	16.69	1.99	16.68	22.15
11a	3	5240	10.07	9.86	9.42	-	14.56	16.64	1.99	16.55	22.16
HT-20	1	5180	15.40	-	-	-	15.40	16.90	2.00	17.40	22.46
HT-20	1	5200	15.39	-	-	-	15.39	16.87	2.00	17.39	22.42
HT-20	1	5240	15.35	-	-	-	15.35	16.93	2.00	17.35	22.46
HT-20	3	5180	10.99	10.57	11.15	-	15.68	16.84	1.99	17.67	22.43
HT-20	3	5200	10.94	10.80	11.03	-	15.70	16.85	1.99	17.68	22.43
HT-20	3	5240	11.10	10.85	10.98	-	15.75	16.84	1.99	17.74	22.44
HT-40	1	5190	15.79	-	-	-	15.79	17.00	2.00	17.79	23.00
HT-40	1	5230	16.41	-	-	-	16.41	17.00	2.00	18.41	23.00
HT-40	3	5190	11.90	11.47	12.57	-	16.77	17.00	1.99	18.76	23.00
HT-40	3	5230	12.03	12.06	12.15	-	16.85	17.00	1.99	18.84	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	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5260	17.74	-	-	-	17.74	21.00	2.00	19.74	26.27
11a	1	5300	17.25	-	-	-	17.25	21.00	2.00	19.25	26.27
11a	1	5320	17.12	-	-	-	17.12	21.00	2.00	19.12	26.35
11a	3	5260	15.47	15.30	15.73	-	20.27	20.75	1.99	22.26	26.16
11a	3	5300	15.15	15.36	15.16	-	20.00	20.73	1.99	21.98	26.16
11a	3	5320	12.86	11.45	11.68	-	16.81	20.73	1.99	18.80	26.18
HT-20	1	5260	16.53	-	-	-	16.53	21.00	2.00	18.53	26.48
HT-20	1	5300	16.69	-	-	-	16.69	21.00	2.00	18.69	26.49
HT-20	1	5320	17.18	-	-	-	17.18	21.00	2.00	19.18	26.51
HT-20	3	5260	15.38	15.50	15.10	-	20.10	20.92	1.99	22.09	26.45
HT-20	3	5300	15.34	15.09	15.19	-	19.98	20.91	1.99	21.97	26.46
HT-20	3	5320	11.31	10.19	10.71	-	15.53	20.84	1.99	17.52	26.44
HT-40	1	5270	16.37	-	-	-	16.37	21.00	2.00	18.37	27.00
HT-40	1	5310	16.73	-	-	-	16.73	21.00	2.00	18.73	27.00
HT-40	3	5270	15.20	15.18	15.36	-	20.02	21.00	1.99	22.01	27.00
HT-40	3	5310	11.37	10.30	10.78	-	15.61	21.00	1.99	17.60	27.00
Result			Complied								

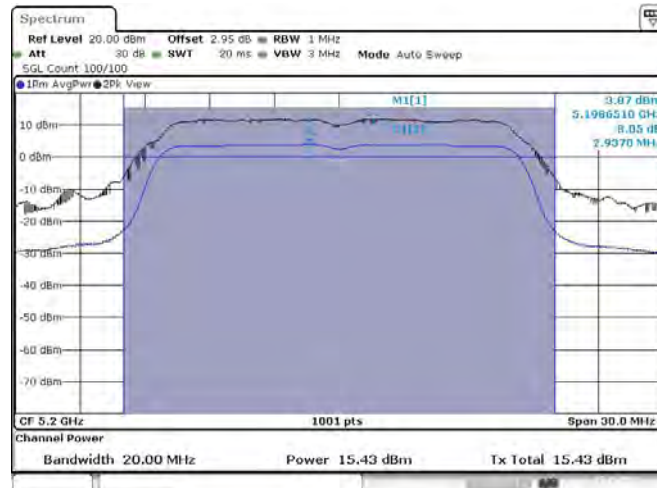
Maximum Conducted Output Power (5470-5725MHz band)											
Condition			RF Output Power (dBm)								
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5500	14.26	-	-	-	14.26	20.96	2.00	16.26	26.19
11a	1	5580	14.42	-	-	-	14.42	20.73	2.00	16.42	26.17
11a	1	5700	15.10	-	-	-	15.10	21.00	2.00	17.10	26.29
11a	3	5500	12.05	10.88	12.95	-	16.81	20.69	1.99	18.80	26.18
11a	3	5580	15.45	15.44	15.15	-	20.12	20.84	1.99	22.11	26.18
11a	3	5700	15.18	15.32	14.89	-	19.90	20.77	1.99	21.89	26.20
HT-20	1	5500	16.80	-	-	-	16.80	21.00	2.00	18.80	26.48
HT-20	1	5580	14.38	-	-	-	14.38	20.85	2.00	16.38	26.44
HT-20	1	5700	14.57	-	-	-	14.57	20.99	2.00	16.57	26.47
HT-20	3	5500	10.38	9.08	10.79	-	14.91	20.85	1.99	16.90	26.42
HT-20	3	5580	15.93	15.81	15.50	-	20.52	20.94	1.99	22.51	26.45
HT-20	3	5700	13.53	14.17	13.83	-	18.62	20.84	1.99	20.61	26.44
HT-40	1	5510	15.92	-	-	-	15.92	21.00	2.00	17.92	27.00
HT-40	1	5550	14.52	-	-	-	14.52	21.00	2.00	16.52	27.00
HT-40	1	5670	14.08	-	-	-	14.08	21.00	2.00	16.08	27.00
HT-40	3	5510	13.17	12.23	13.83	-	17.90	21.00	1.99	19.88	27.00
HT-40	3	5550	15.39	15.61	15.68	-	20.33	21.00	1.99	22.32	27.00
HT-40	3	5670	12.22	12.77	11.76	-	17.04	21.00	1.99	19.03	27.00
Result			Complied								



5150-5250MHz

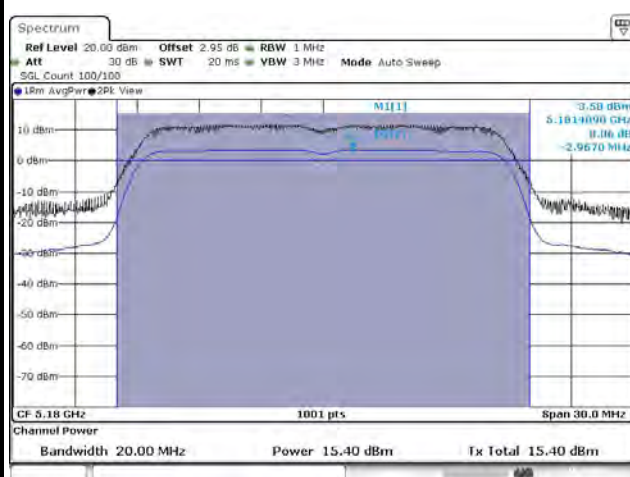
Worst RF Output Power and Peak Excursion Plots

11a [Port 1]



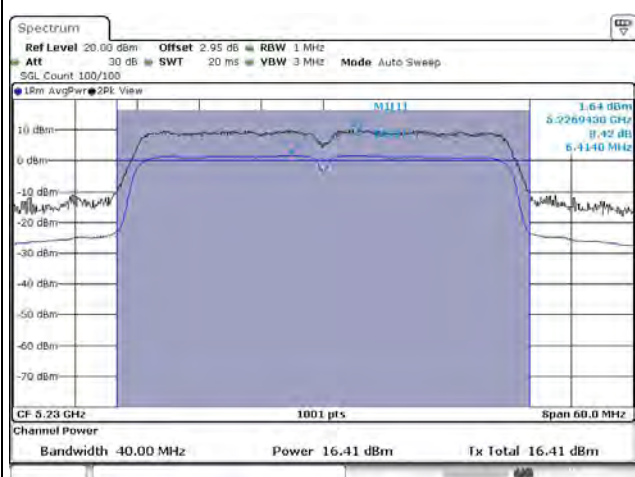
Date: 15.DEC.2012 11:35:58

HT-20 [Port 1]



Date: 15.DEC.2012 11:51:58

HT-40 [Port 1]



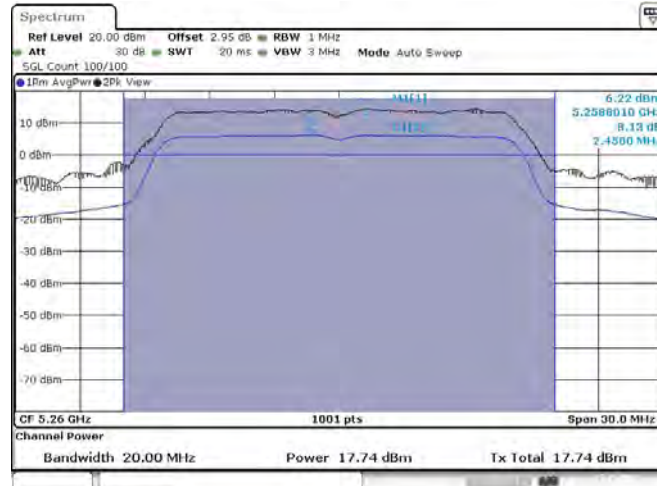
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5250-5350MHz

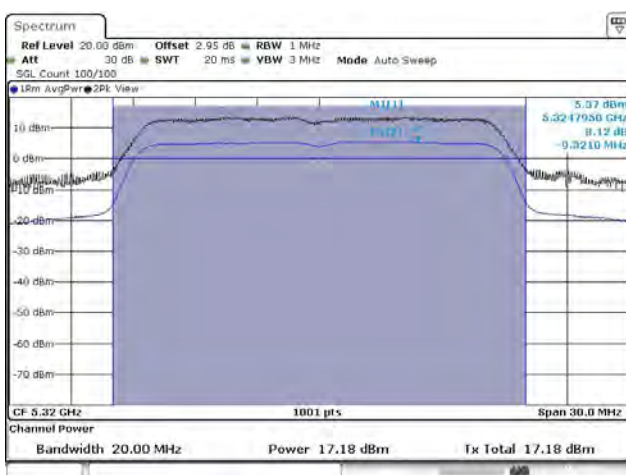
Worst Maximum Conducted Output Power and Peak Excursion Plots

11a [Port 1]



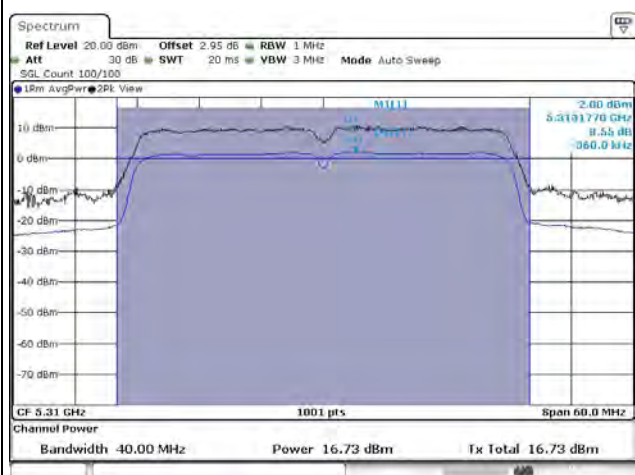
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HT-20 [Port 1]



Date: 15.DEC.2012 11:58:22

HT-40 [Port 1]



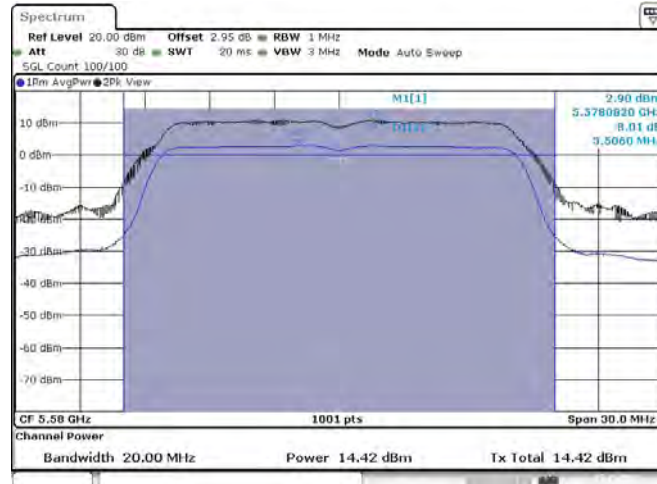
Date: 15.DEC.2012 12:16:00



5470-5725MHz

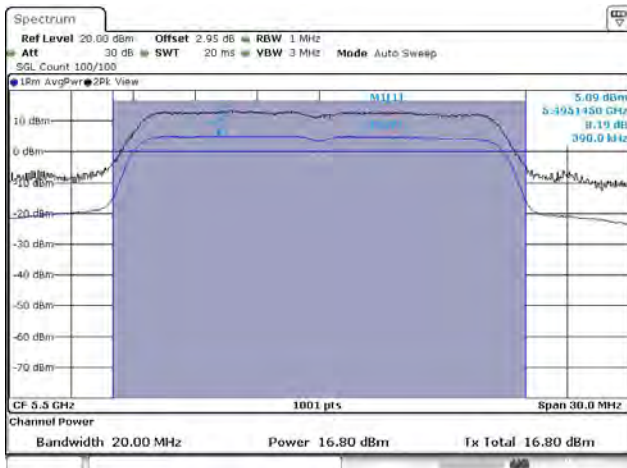
Worst Maximum Conducted Output Power and Peak Excursion Plots

11a [Port 1]



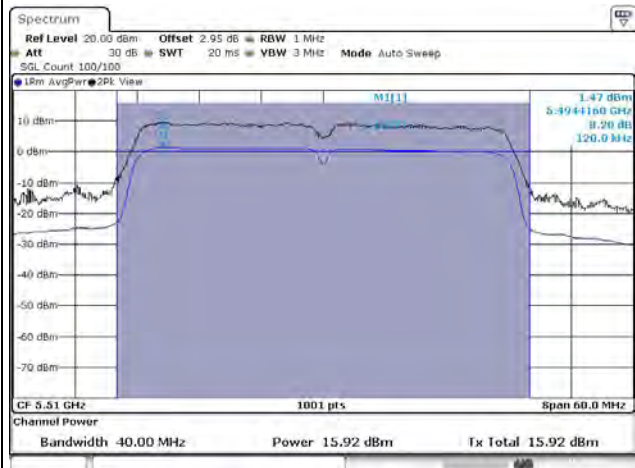
Date: 15.DEC.2012 11:46:38

HT-20 [Port 1]



Date: 15.DEC.2012 12:03:40

HT-40 [Port 1]



Date: 15.DEC.2012 12:17:51

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.	

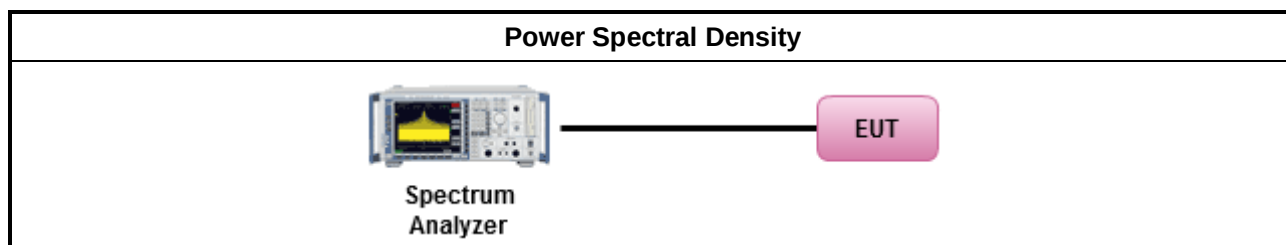
3.4.2 Measuring Instruments

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, E)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty cycle ≥ 98% or external video / power trigger]
☒	Refer as FCC KDB 789033, clause C Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause C 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 C Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause C 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

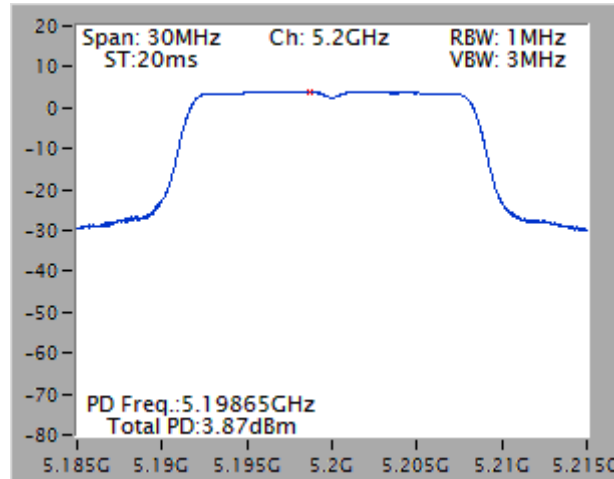
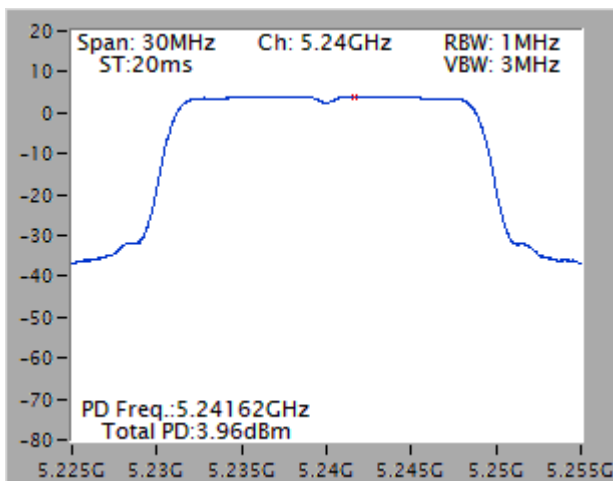
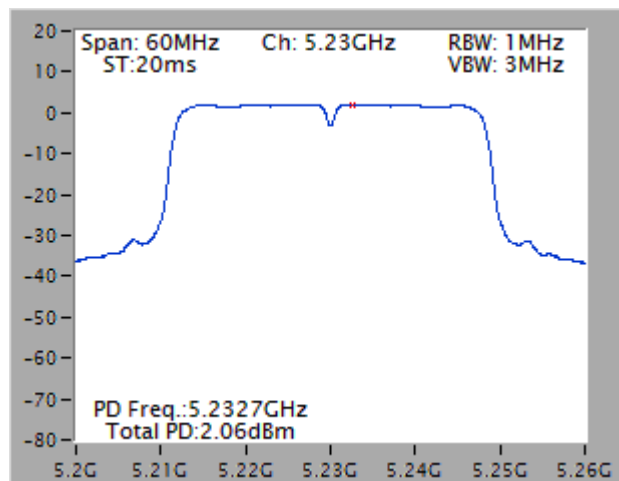
Directional Gain (DG) Result					
Transmit Chains No.		1	2	3	-
Maximum G_{ANT} (dBi)		1.96	2.00	2.00	-
Modulation Mode	DG (dBi)	N_{TX}	N_{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	2.00	1	1	-	-
11a,6-54Mbps	6.76	3	3	-	-
HT-20,M0-7	2.00	1	1	-	-
HT-20, M16-23	1.99	3	3	-	-
HT-40,M0-7	2.00	1	1	-	-
HT-40, M16-23	1.99	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 spectral density measurements: Directional Gain (DG) = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows: Array Gain = $10 \log(N_{TX}/N_{SS})$;					

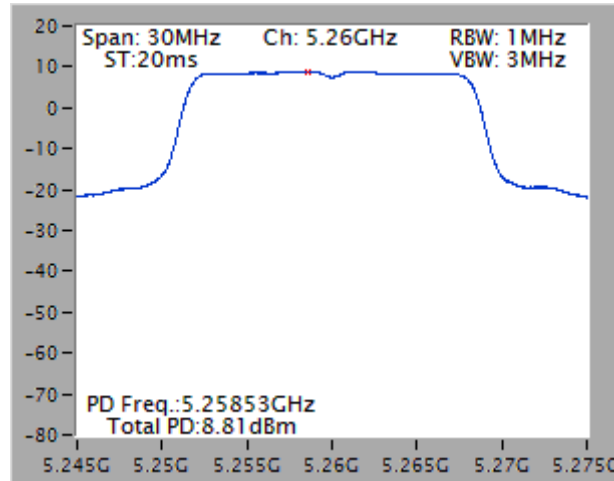
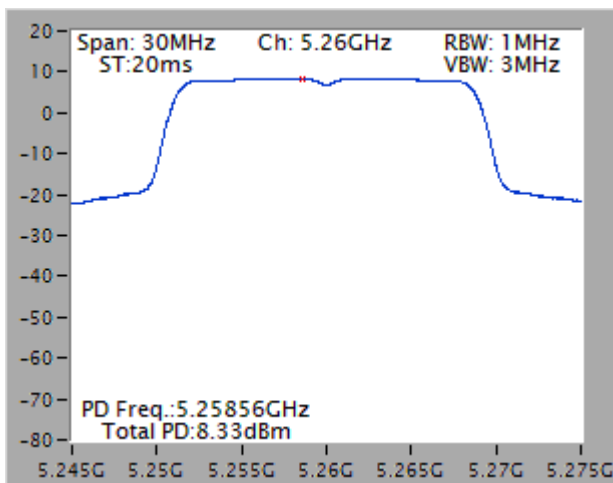
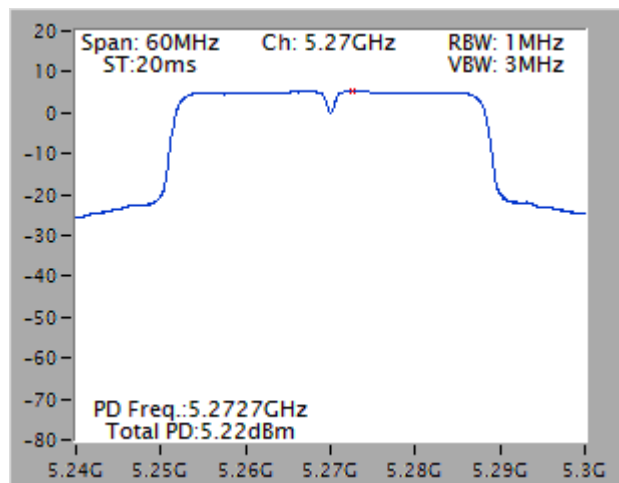
3.4.6 Test Result of Peak Power Spectral Density

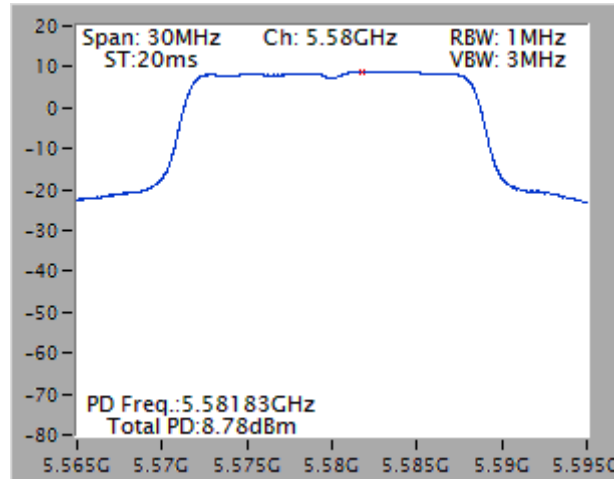
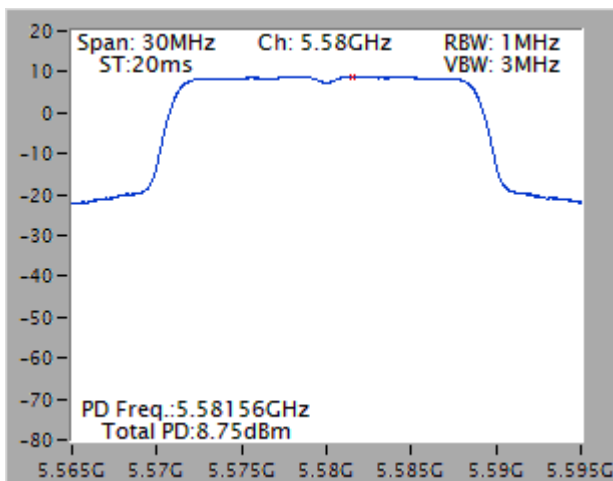
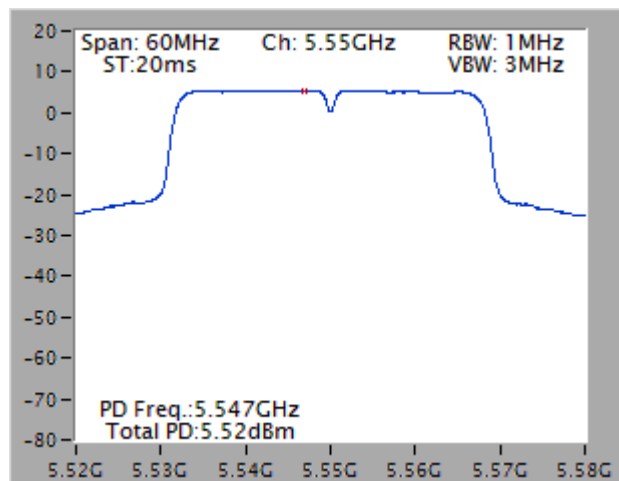
Peak Power Spectral Density Result (5150-5250MHz band)											
Condition			Peak Power Spectral Density (dBm/MHz)								
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	-	-	-	-	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	3.64	-	-	-	-	4.00	2.00	5.64	10.00
11a	1	5200	3.87	-	-	-	-	4.00	2.00	5.87	10.00
11a	1	5240	3.66	-	-	-	-	4.00	2.00	5.66	10.00
11a	3	5180	3.02	-	-	-	-	3.24	6.76	9.78	10.00
11a	3	5200	3.13	-	-	-	-	3.24	6.76	9.89	10.00
11a	3	5240	3.10	-	-	-	-	3.24	6.76	9.86	10.00
HT-20	1	5180	3.58	-	-	-	-	4.00	2.00	5.58	10.00
HT-20	1	5200	3.54	-	-	-	-	4.00	2.00	5.54	10.00
HT-20	1	5240	3.53	-	-	-	-	4.00	2.00	5.53	10.00
HT-20	3	5180	3.88	-	-	-	-	4.00	1.99	5.87	10.00
HT-20	3	5200	3.92	-	-	-	-	4.00	1.99	5.91	10.00
HT-20	3	5240	3.96	-	-	-	-	4.00	1.99	5.95	10.00
HT-40	1	5190	0.99	-	-	-	-	4.00	2.00	2.99	10.00
HT-40	1	5230	1.64	-	-	-	-	4.00	2.00	3.64	10.00
HT-40	3	5190	1.97	-	-	-	-	4.00	1.99	3.96	10.00
HT-40	3	5230	2.06	-	-	-	-	4.00	1.99	4.05	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	6.22	-	-	-	-	11.00	2.00	8.22	17.00
11a	1	5300	5.72	-	-	-	-	11.00	2.00	7.72	17.00
11a	1	5320	5.62	-	-	-	-	11.00	2.00	7.62	17.00
11a	3	5260	8.81	-	-	-	-	10.24	6.76	15.57	17.00
11a	3	5300	8.59	-	-	-	-	10.24	6.76	15.35	17.00
11a	3	5320	5.30	-	-	-	-	10.24	6.76	12.06	17.00
HT-20	1	5260	4.69	-	-	-	-	11.00	2.00	6.69	17.00
HT-20	1	5300	4.86	-	-	-	-	11.00	2.00	6.86	17.00
HT-20	1	5320	5.37	-	-	-	-	11.00	2.00	7.37	17.00
HT-20	3	5260	8.33	-	-	-	-	11.00	1.99	10.32	17.00
HT-20	3	5300	8.22	-	-	-	-	11.00	1.99	10.21	17.00
HT-20	3	5320	3.76	-	-	-	-	11.00	1.99	5.75	17.00
HT-40	1	5270	1.61	-	-	-	-	11.00	2.00	3.61	17.00
HT-40	1	5310	2.00	-	-	-	-	11.00	2.00	4.00	17.00
HT-40	3	5270	5.22	-	-	-	-	11.00	1.99	7.21	17.00
HT-40	3	5310	0.91	-	-	-	-	11.00	1.99	2.90	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	2.77	-	-	-	-	11.00	2.00	4.77	17.00
11a	1	5580	2.90	-	-	-	-	11.00	2.00	4.90	17.00
11a	1	5700	3.53	-	-	-	-	11.00	2.00	5.53	17.00
11a	3	5500	5.42	-	-	-	-	10.24	6.76	12.18	17.00
11a	3	5580	8.78	-	-	-	-	10.24	6.76	15.54	17.00
11a	3	5700	8.58	-	-	-	-	10.24	6.76	15.34	17.00
HT-20	1	5500	5.09	-	-	-	-	11.00	2.00	7.09	17.00
HT-20	1	5580	2.54	-	-	-	-	11.00	2.00	4.54	17.00
HT-20	1	5700	2.72	-	-	-	-	11.00	2.00	4.72	17.00
HT-20	3	5500	3.15	-	-	-	-	11.00	1.99	5.14	17.00
HT-20	3	5580	8.75	-	-	-	-	11.00	1.99	10.74	17.00
HT-20	3	5700	6.86	-	-	-	-	11.00	1.99	8.85	17.00
HT-40	1	5510	1.47	-	-	-	-	11.00	2.00	3.47	17.00
HT-40	1	5550	0.09	-	-	-	-	11.00	2.00	2.09	17.00
HT-40	1	5670	-0.66	-	-	-	-	11.00	2.00	2.00	17.00
HT-40	3	5510	3.29	-	-	-	-	11.00	1.99	5.28	17.00
HT-40	3	5550	5.52	-	-	-	-	11.00	1.99	7.51	17.00
HT-40	3	5670	2.27	-	-	-	-	11.00	1.99	4.26	17.00
Result			Complied								

5150-5250MHz
Worst Power Spectral Density Plots
11a

HT-20

HT-40


5250-5350MHz
Worst Power Spectral Density Plots
11a

HT-20

HT-40


5470-5725MHz
Worst Power Spectral Density Plots
11a

HT-20

HT-40


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

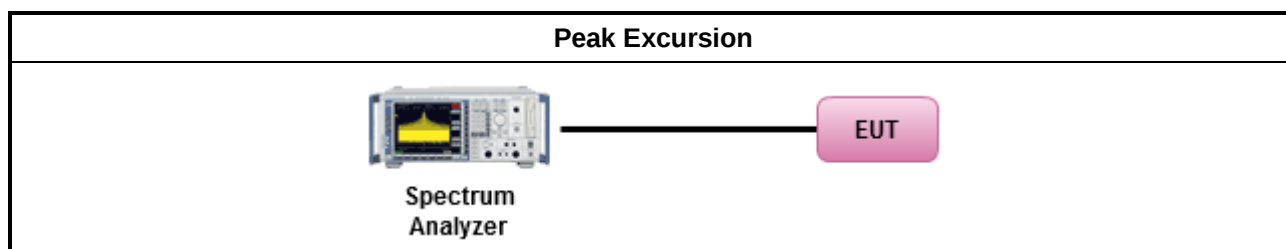
3.5.2 Measuring Instruments

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 F peak excursion method.
☒	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
☒	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 given below method: Refer as FCC KDB 662911, when testing in-band (peak to average ratio) against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log(N)$.
☒	Test result plots refer as test report clause 3.3.5 with peak excursion ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum.

3.5.4 Test Setup



3.5.5 Test Result of Peak Excursion

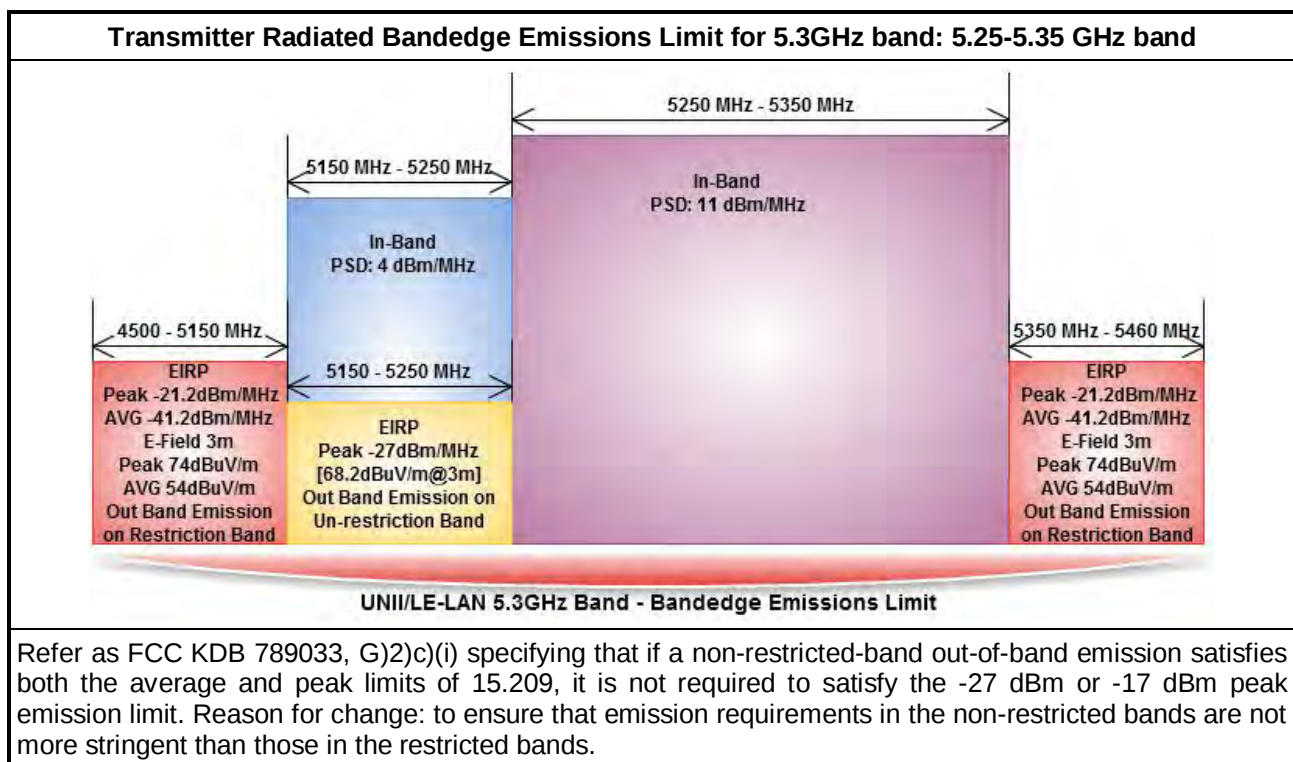
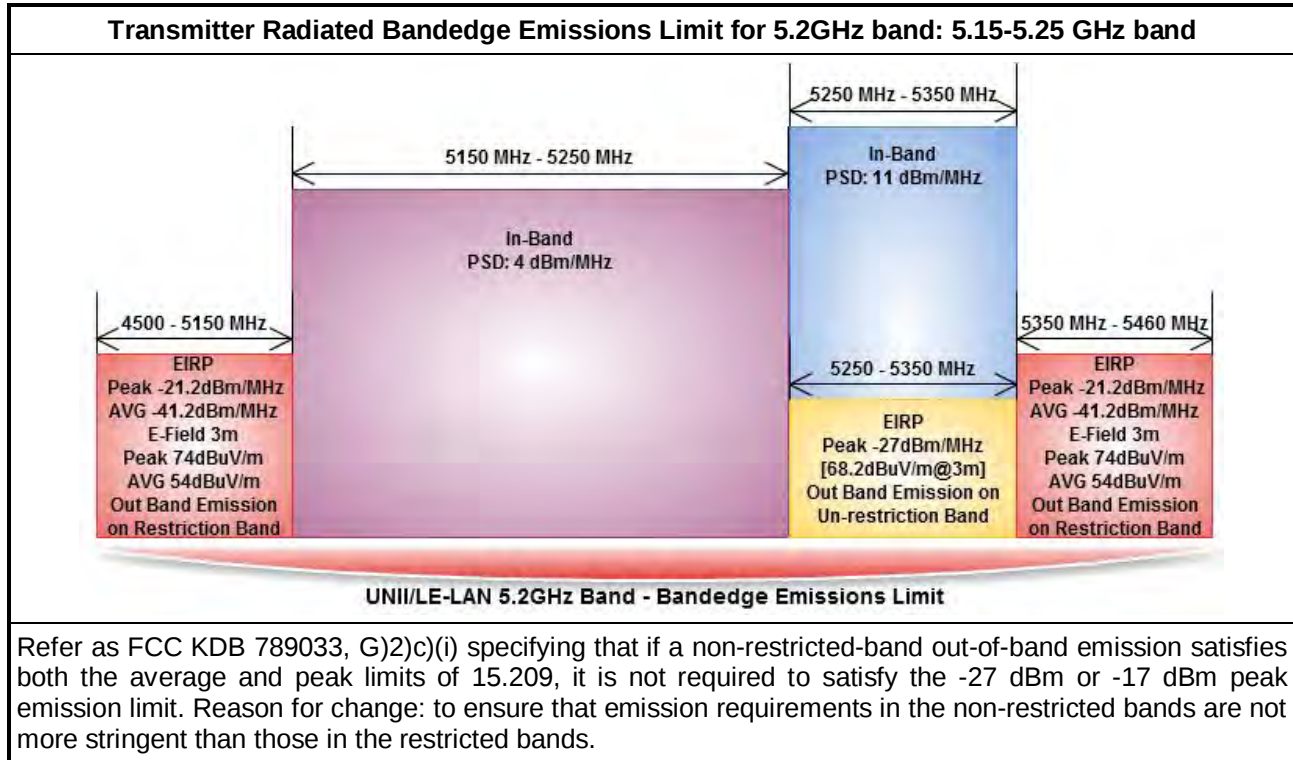
UNII Peak Excursion Result (5150-5250MHz band)							
Condition			Peak Excursion (dB)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Limit
11a	1	5180	8.05	-	-	-	13.0
HT-20	1	5180	8.06	-	-	-	13.0
HT-40	1	5190	8.38	-	-	-	13.0
11a	3	5180	8.05	8.07	8.08	-	13.0
HT-20	3	5180	8.10	9.20	8.70	-	13.0
HT-40	3	5190	8.54	9.41	9.06	-	13.0
Result			Complied				

UNII Peak Excursion Result (5250-5350MHz band)							
Condition			Peak Excursion (dB)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Limit
11a	1	5260	8.13	-	-	-	13.0
HT-20	1	5260	8.13	-	-	-	13.0
HT-40	1	5270	8.46	-	-	-	13.0
11a	3	5260	8.14	8.04	8.09	-	13.0
HT-20	3	5260	8.31	9.13	8.65	-	13.0
HT-40	3	5270	8.30	9.40	9.17	-	13.0
Result			Complied				

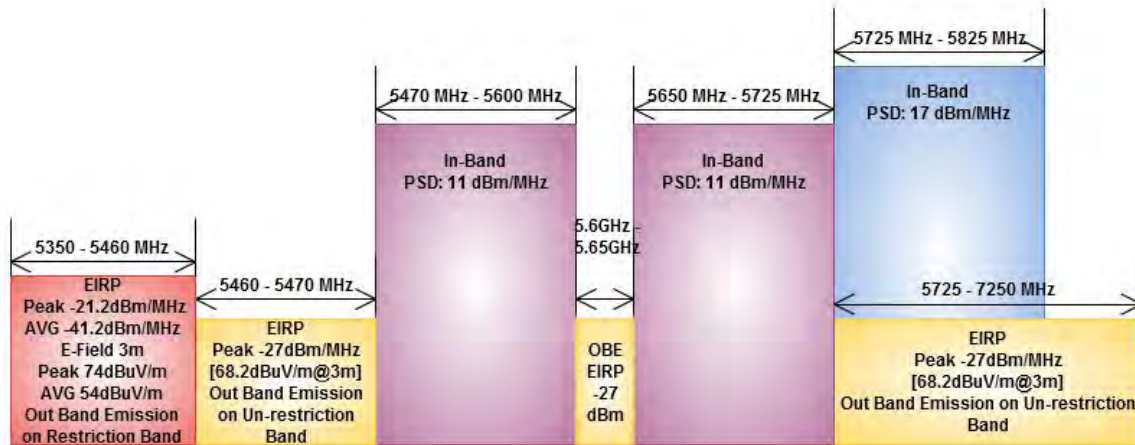
UNII Peak Excursion Result (5470-5725MHz band)							
Condition			Peak Excursion (dB)				
Modulation Mode	N _{TX}	Freq. (MHz)	Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Limit
11a	1	5500	8.06	-	-	-	13.0
HT-20	1	5500	8.19	-	-	-	13.0
HT-40	1	5510	8.20	-	-	-	13.0
11a	3	5500	7.89	8.13	7.85	-	13.0
HT-20	3	5500	8.19	9.43	8.84	-	13.0
HT-40	3	5510	8.21	9.11	8.53	-	13.0
Result			Complied				

3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit



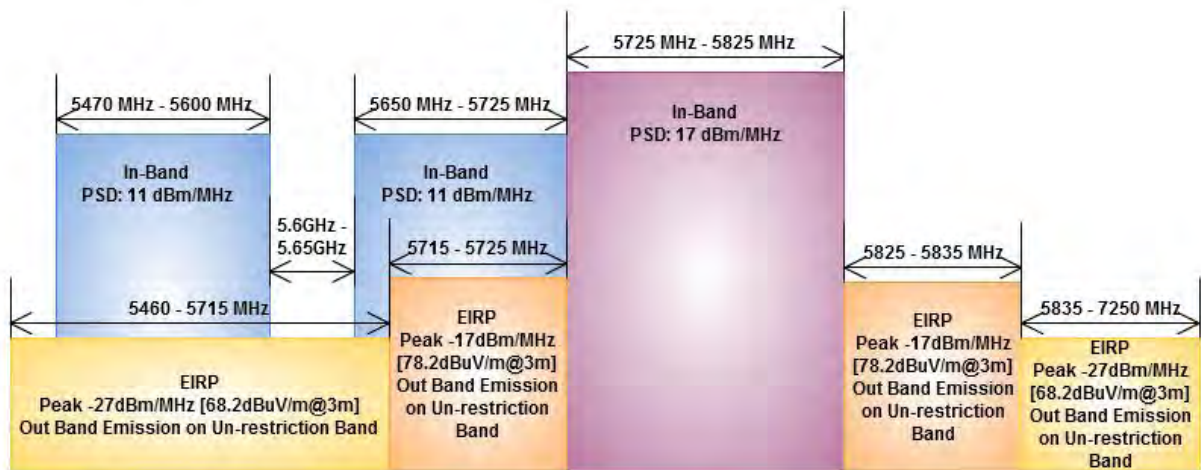
Transmitter Radiated Bandedge Emissions Limit for 5.6GHz band: 5.47-5.725 GHz band



UNII/LE-LAN 5.6GHz Band - Bandedge Emissions Limit

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 for 5.8GHz band: 5.725-5.825 GHz band



UNII/LE-LAN 5.8GHz Band - Bandedge Emissions Limit

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.

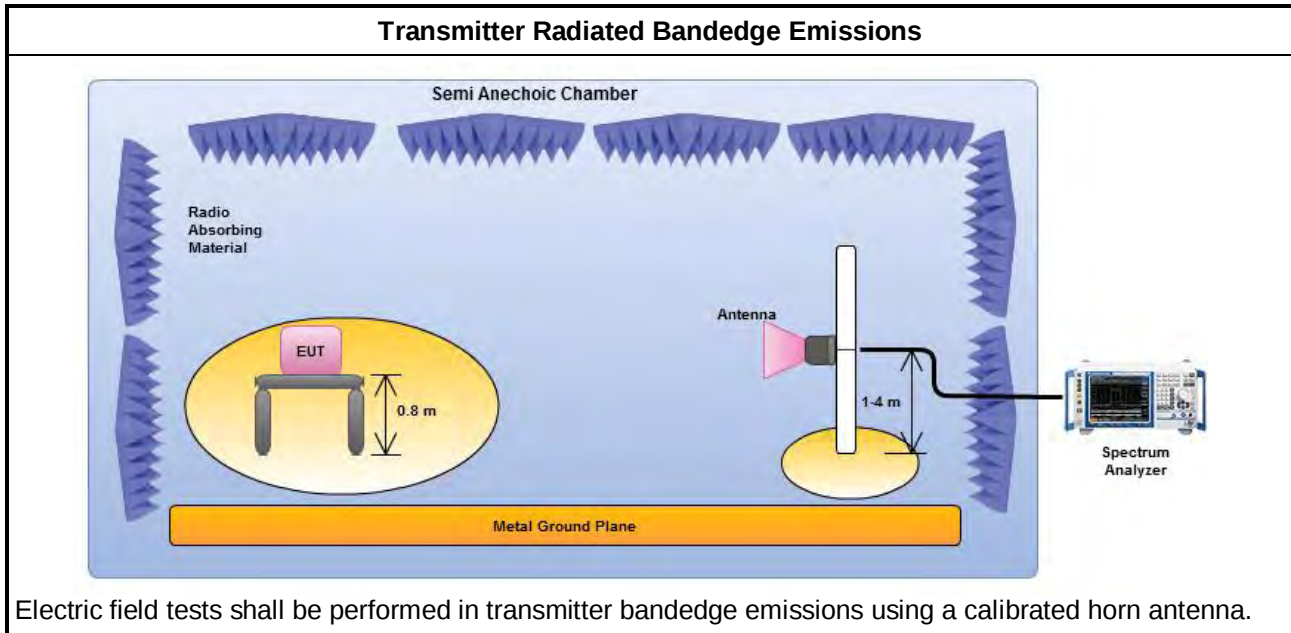
3.6.2 Measuring Instruments

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

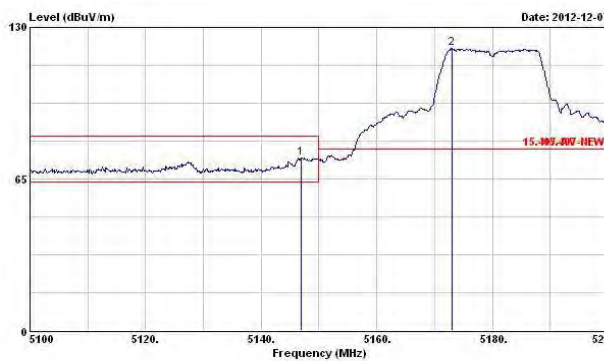
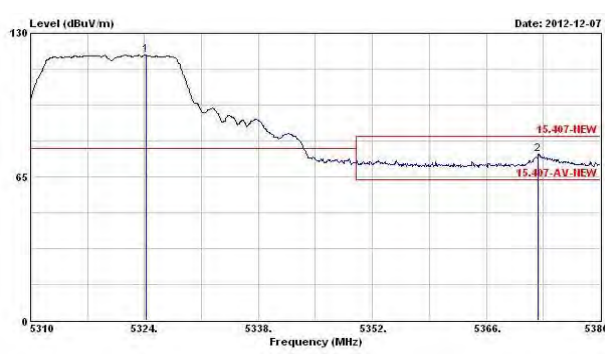
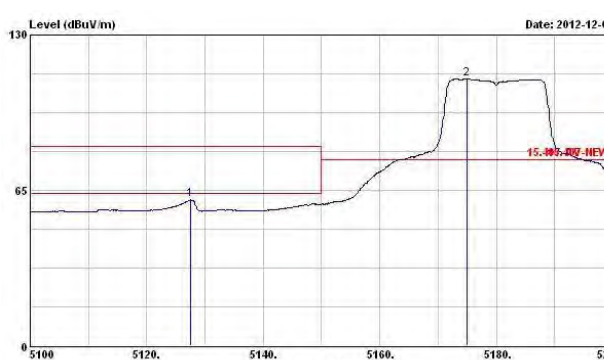
3.6.3 Test Procedures

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 1m, 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 G)2) for unwanted emissions into non-restricted bands.
☒	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
☐	Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
☒	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW) - Duty cycle $\geq$ 98%.
☐	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
☒	Refer as FCC KDB 789033, clause G)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 G)3)d) marker-delta method for band-edge measurements.
☒	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

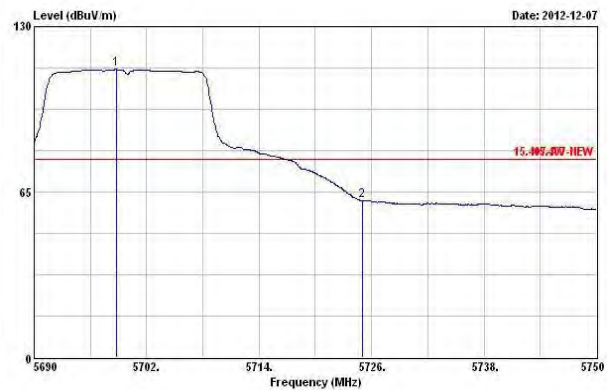
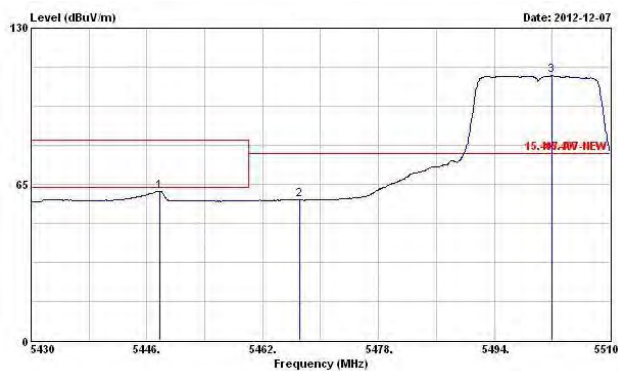
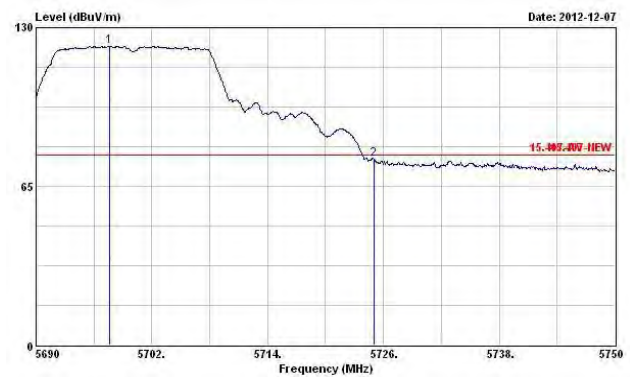
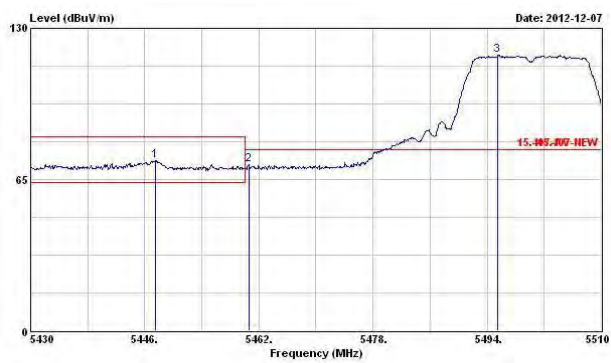


3.6.5 Test Result of Transmitter Radiated Bandedge Emissions

Transmitter Radiated Bandedge Emissions Result								
Modulation	11a		N _{TX}	1				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	120.94	5147.00	1	74.14	83.54	PK	V
4500-5150	5180	111.63	5175.00	1	60.95	63.54	AV	V
5350-5460	5320	120.17	5372.37	1	75.45	83.54	PK	V
5350-5460	5320	110.60	5372.30	1	62.43	63.54	AV	V
5.2GHz Lower-band (Lowest Ch.)				5.3GHz Higher-band (Highest Ch.)				
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

Transmitter Radiated Bandedge Emissions Result

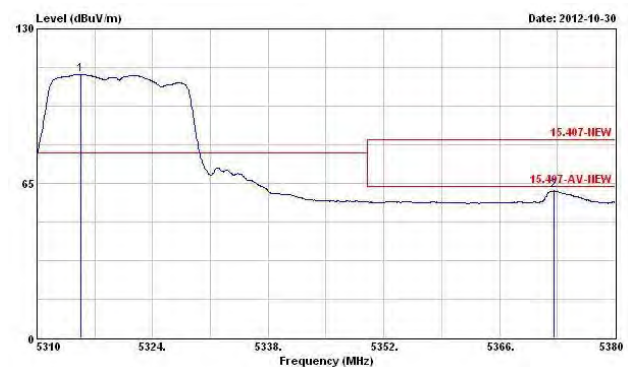
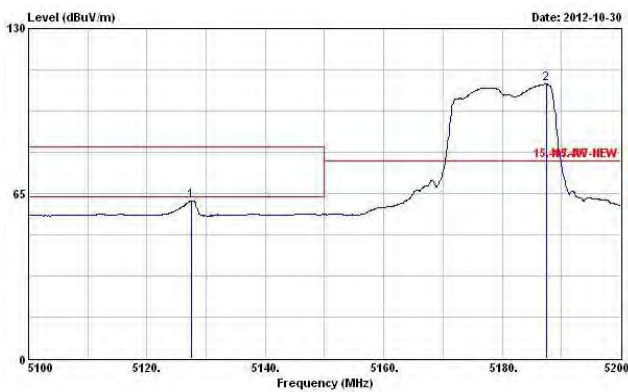
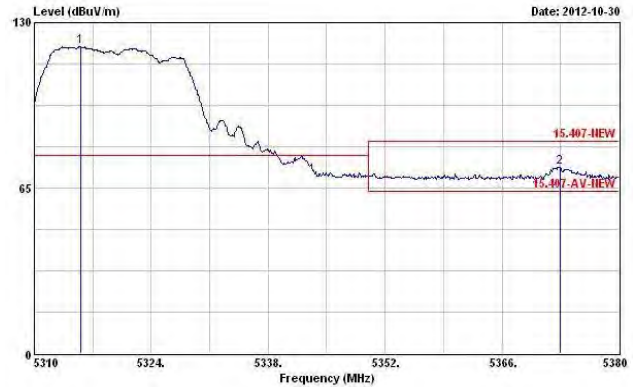
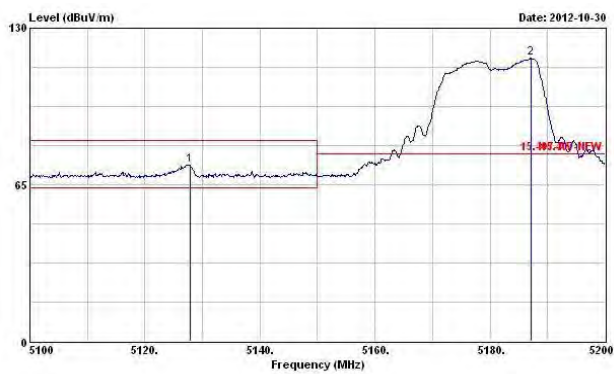
Modulation	11a		N _{TX}	1				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5500	118.32	5460.56	1	71.57	77.84	PK	V
5350-5470	5500	110.16	5467.04	1	58.62	77.84	AV	V
5725-7250	5700	122.29	5725.00	1	76.02	77.84	PK	V
5725-7250	5700	113.13	5725.00	1	61.55	77.84	AV	V

5.6GHz band (Lowest Ch.)
5.6GHz band (Highest Ch.)


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

Transmitter Radiated Bandedge Emissions Result

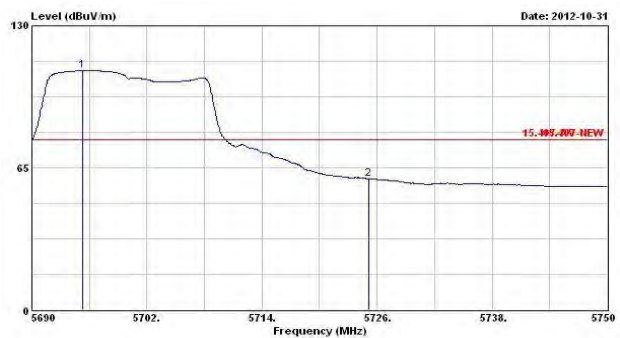
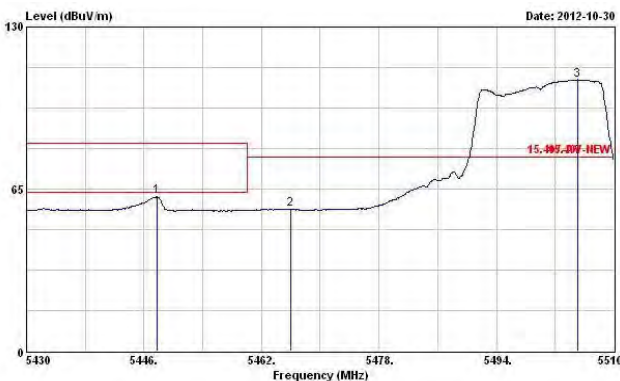
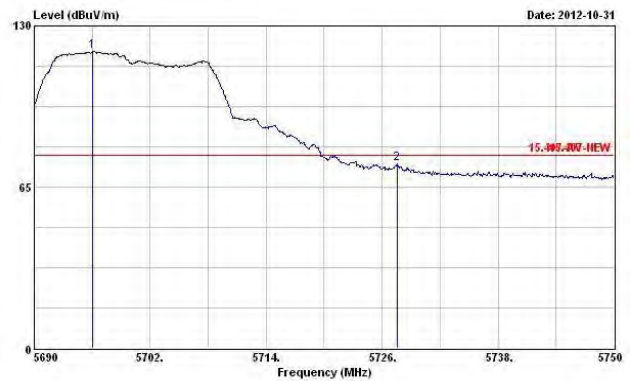
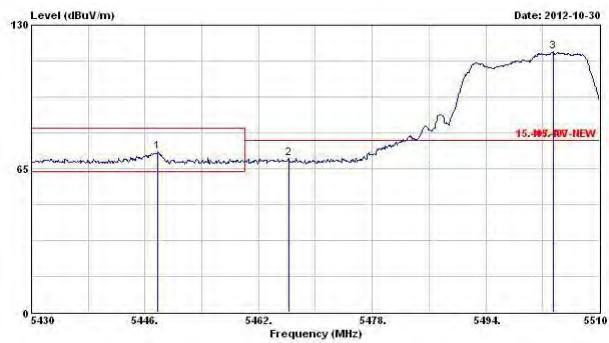
Modulation	11a		N _{TX}	3				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	117.49	5127.80	1	73.33	83.54	PK	V
4500-5150	5180	108.07	2127.50	1	62.15	63.54	AV	V
5350-5460	5320	120.73	5372.93	1	73.22	83.54	PK	V
5350-5460	5320	110.81	5372.58	1	61.81	63.54	AV	V

5.2GHz Lower-band (Lowest Ch.)
5.3GHz Higher-band (Highest Ch.)


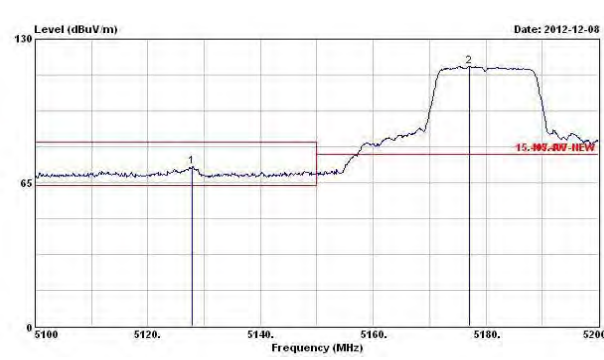
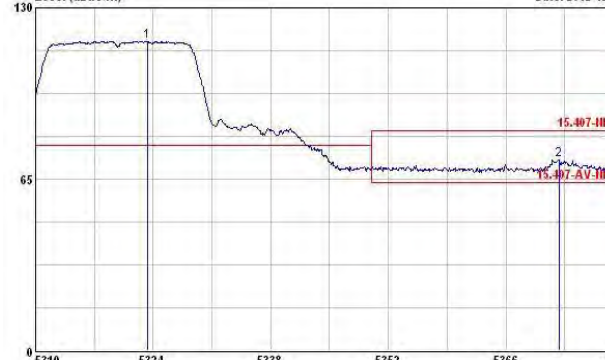
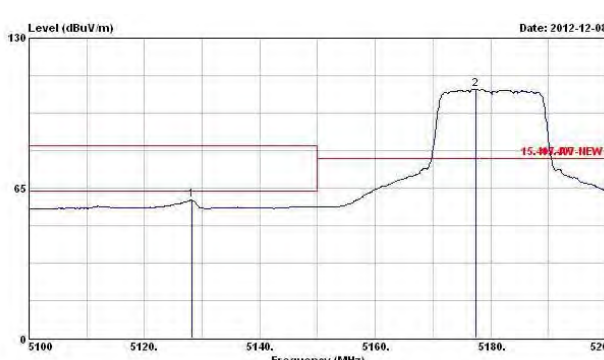
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

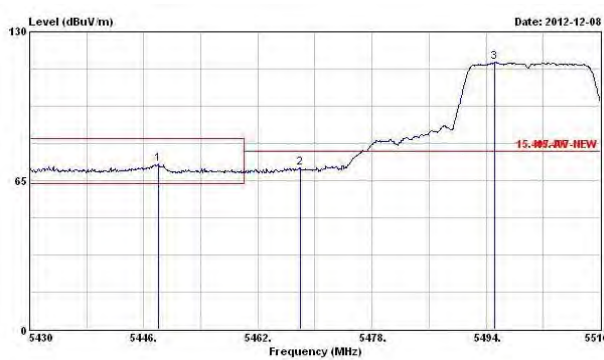
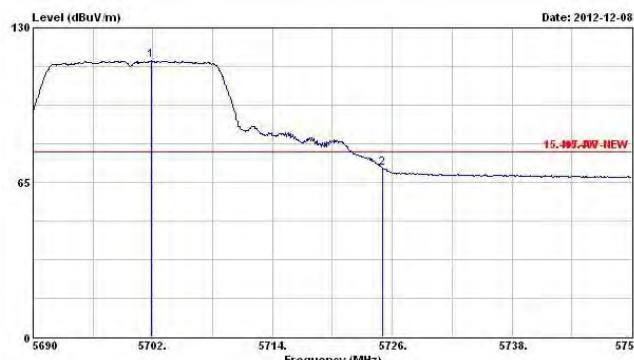
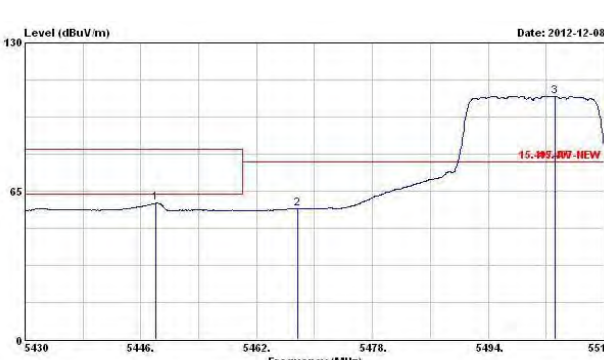
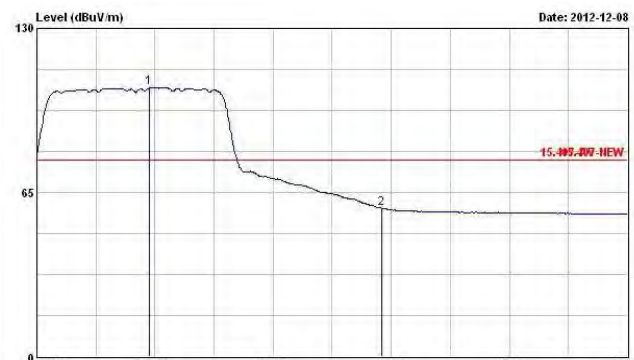
Transmitter Radiated Bandedge Emissions Result

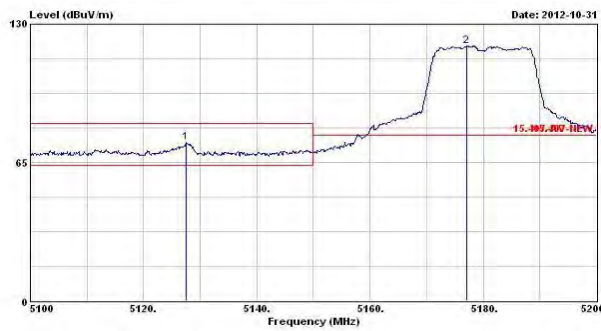
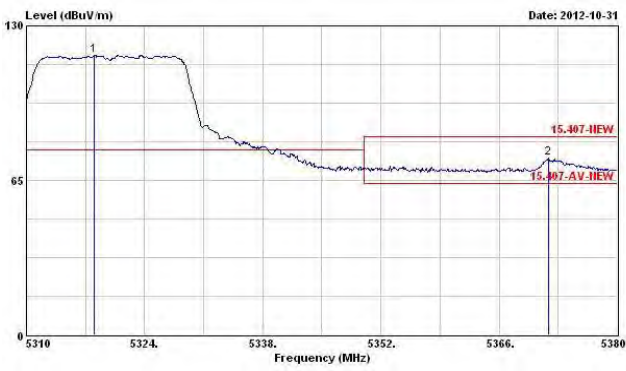
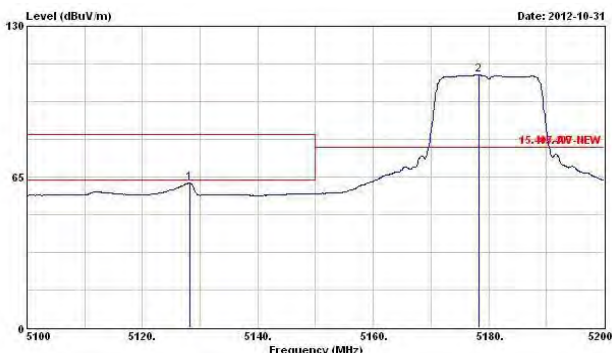
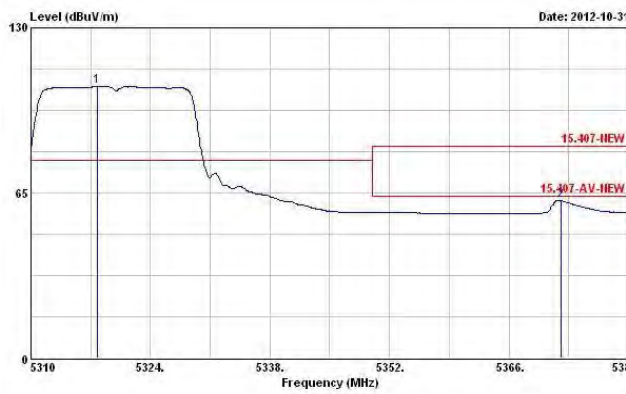
Modulation	11a		N _{TX}	3				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5500	117.88	5466..32	1	69.57	77.84	PK	V
5350-5470	5500	108.83	5466.00	1	57.06	77.84	AV	V
5725-7250	5700	119.66	5727.55	1	74.43	77.84	PK	V
5725-7250	5700	109.68	5725.09	1	60.04	77.84	AV	V

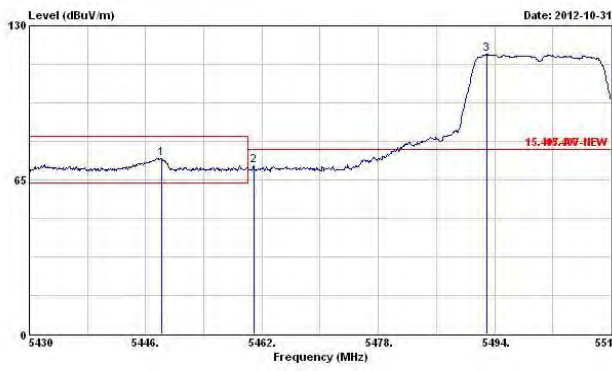
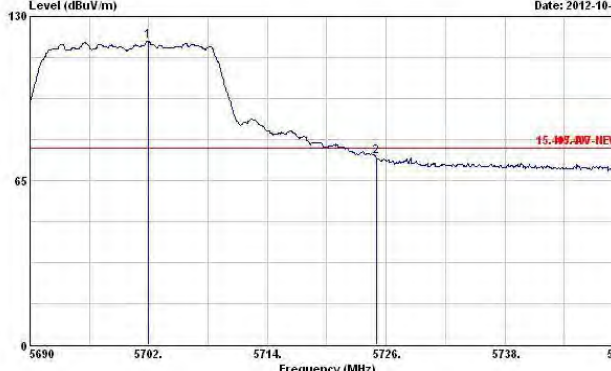
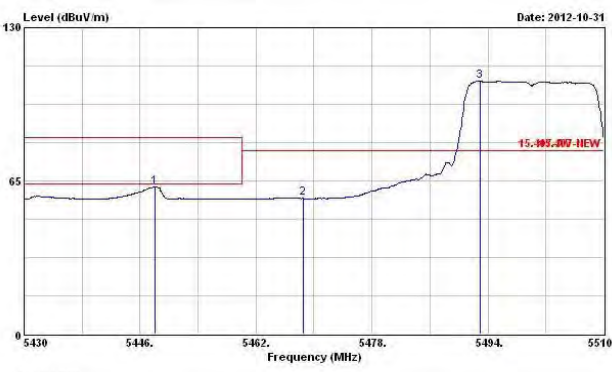
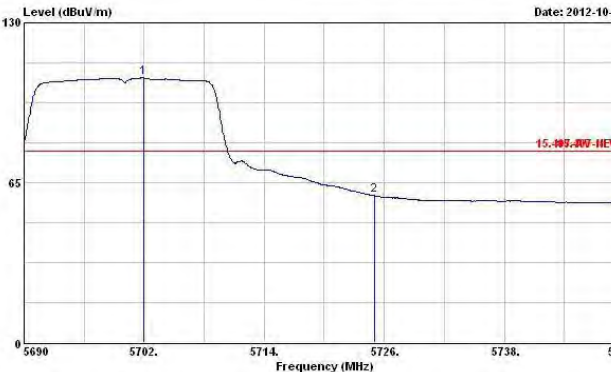
5.6GHz band (Lowest Ch.)
5.6GHz band (Highest Ch.)


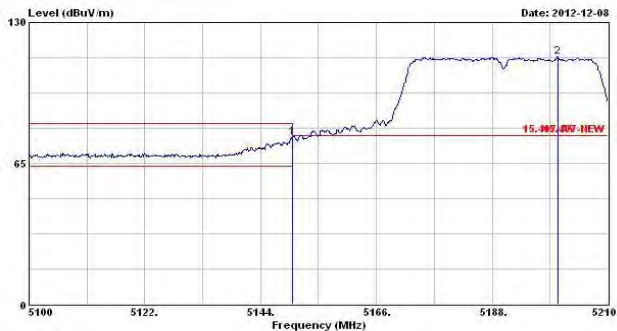
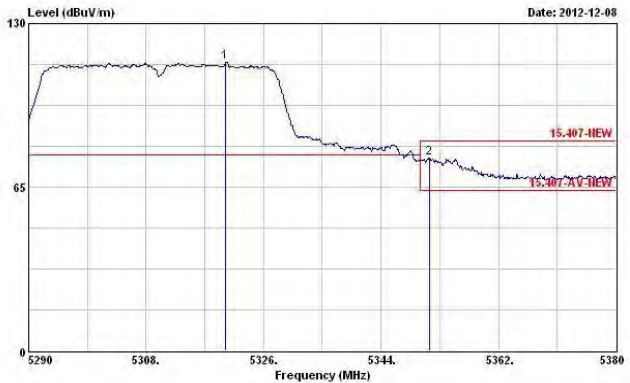
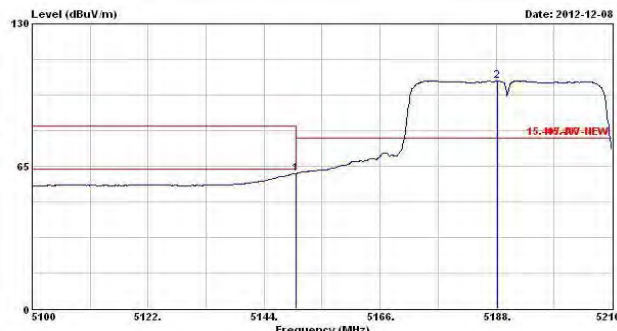
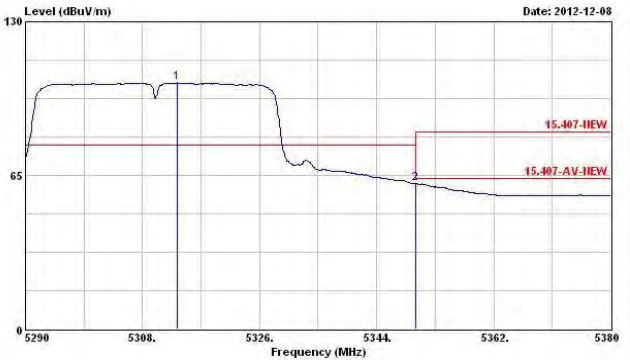
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

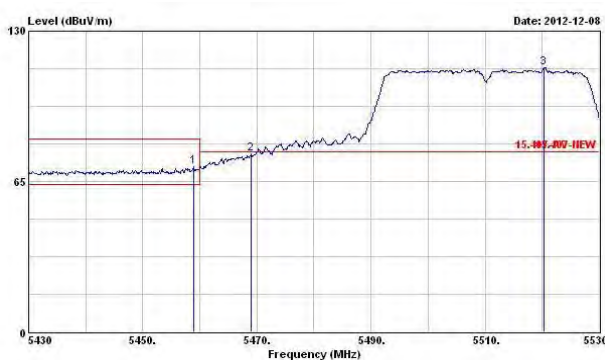
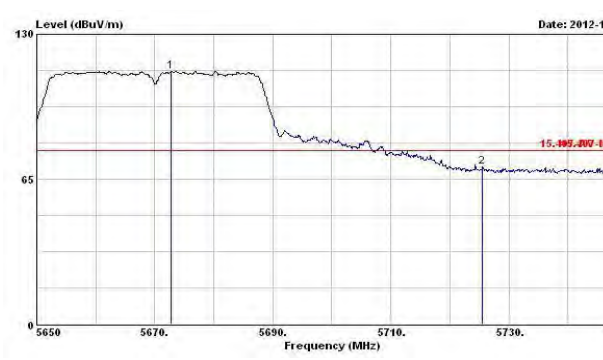
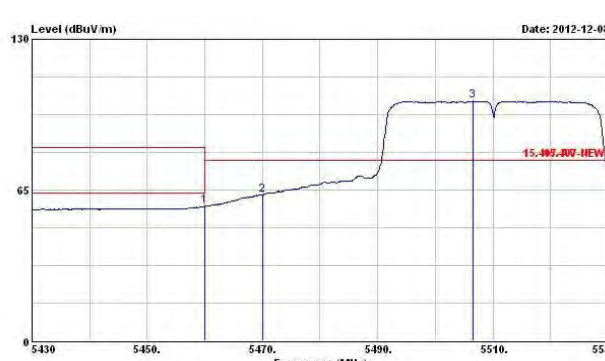
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-20		N _{TX}	1				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	117.77	5127.90	1	72.33	83.54	PK	V
4500-5150	5180	107.72	5128.20	1	59.80	63.54	AV	V
5350-5460	5320	117.29	5372.30	1	72.29	83.54	PK	V
5350-5460	5320	107.56	5372.02	1	60.40	63.54	AV	V
5.2GHz Lower-band (Lowest Ch.)			5.3GHz Higher-band (Highest Ch.)					
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-20		N _{TX}	1				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5500	116.86	5467.92	1	70.65	77.84	PK	V
5350-5470	5500	106.60	5467.68	1	57.40	77.84	AV	V
5725-7250	5700	116.15	5725.00	1	71.10	77.84	PK	V
5725-7250	5700	106.45	5725.00	1	58.75	77.84	AV	V
5.6GHz band (Lowest Ch.)				5.6GHz band (Highest Ch.)				
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

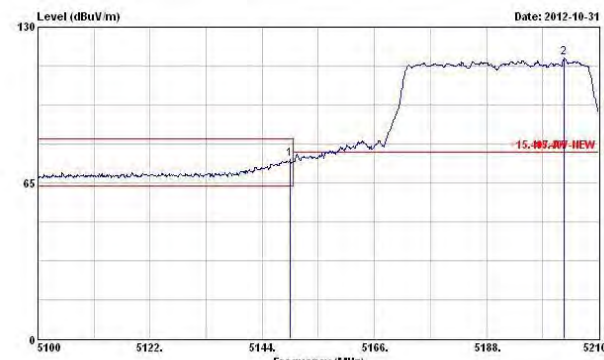
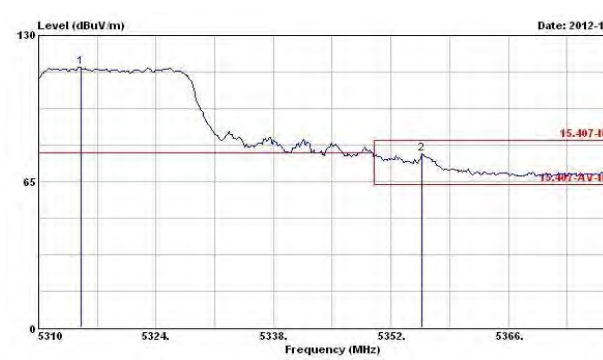
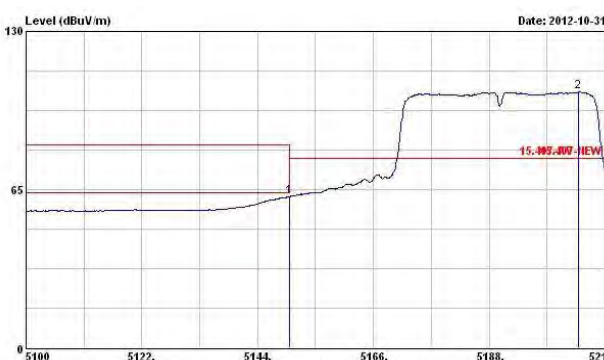
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-20		N _{TX}	3				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5180	119.88	5127.50	1	74.54	83.54	PK	V
4500-5150	5180	108.97	5128.20	1	62.28	63.54	AV	V
5350-5460	5320	117.72	5371.81	1	74.28	83.54	PK	V
5350-5460	5320	106.92	5372.09	1	61.97	63.54	AV	V
5.2GHz Lower-band (Lowest Ch.)				5.3GHz Higher-band (Highest Ch.)				
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

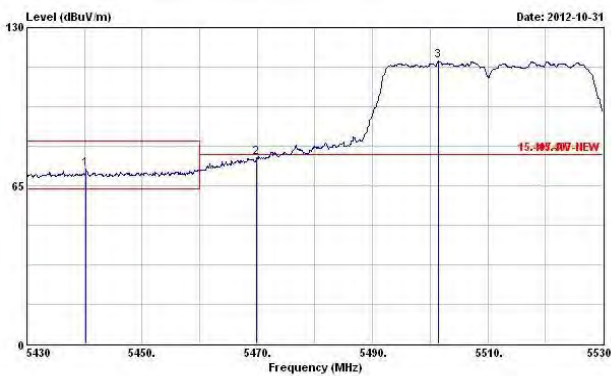
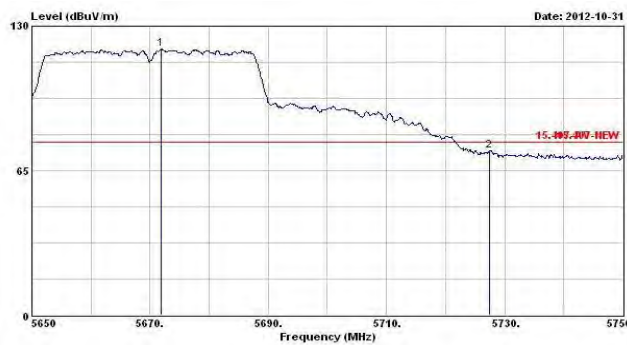
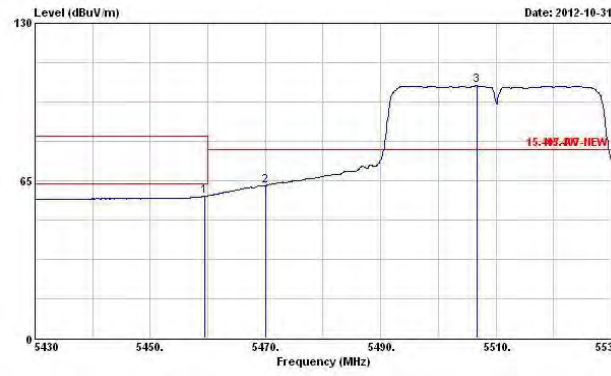
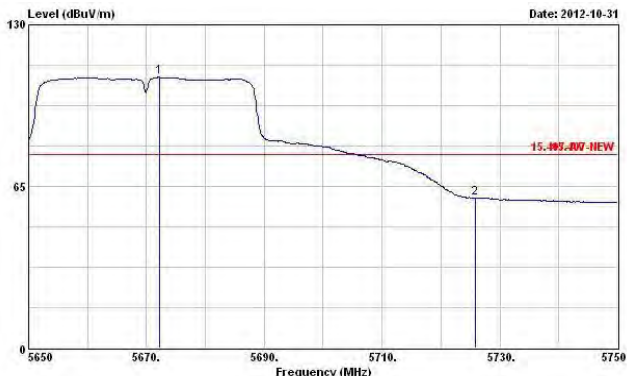
Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-20		N _{TX}	3				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5500	118.16	5460.88	1	71.14	77.84	PK	V
5350-5470	5500	107.26	5468.56	1	57.74	77.84	AV	V
5725-7250	5700	120.18	5725.00	1	74.41	77.84	PK	V
5725-7250	5700	107.60	5725.00	1	59.78	77.84	AV	V
5.6GHz band (Lowest Ch.)				5.6GHz band (Highest Ch.)				
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-40		N _{TX}	1				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5190	114.08	5149.99	1	76.89	83.54	PK	V
4500-5150	5190	103.89	5150.00	1	61.74	63.54	AV	V
5350-5460	5310	114.51	5351.38	1	76.56	83.54	PK	V
5350-5460	5310	104.16	5350.03	1	61.46	63.54	AV	V
5.2GHz Lower-band (Lowest Ch.)			5.3GHz Higher-band (Highest Ch.)					
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-40		N _{TX}	1				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5510	114.07	5469.00	1	76.79	77.84	PK	V
5350-5470	5510	103.29	5470.00	1	62.94	77.84	AV	V
5725-7250	5670	113.49	5725.50	1	70.36	77.84	PK	V
5725-7250	5670	103.68	5725.00	1	57.70	77.84	AV	V
5.6GHz band (Lowest Ch.)				5.6GHz band (Highest Ch.)				
								
								

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

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-40		N _{TX}	3				
Restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	RBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
4500-5150	5190	116.99	5149.50	1	74.67	83.54	PK	V
4500-5150	5190	105.08	5150.00	1	62.06	63.54	AV	V
5350-5460	5310	115.88	5355.65	1	77.26	83.54	PK	V
5350-5460	5310	104.77	5350.04	1	62.42	63.54	AV	V
5.2GHz Lower-band (Lowest Ch.)			5.3GHz Higher-band (Highest Ch.)					
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

Transmitter Radiated Bandedge Emissions Result								
Modulation	HT-40		N _{TX}	3				
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/1MHz)	NBE Freq. (MHz)	Measure Distance (m)	Out-Band Level (dBuV/m)	Limit (dBuV/m)	Level Type	Pol. note 1
5350-5470	5510	116.21	5469.90	1	76.45	77.84	PK	V
5350-5470	5510	104.19	5470.00	1	62.93	77.84	AV	V
5725-7250	5670	119.67	5727.50	1	74.15	77.84	PK	V
5725-7250	5670	109.00	5725.80	1	60.48	77.84	AV	V
5.6GHz band (Lowest Ch.)				5.6GHz band (Highest Ch.)				
								
								
Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).								

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

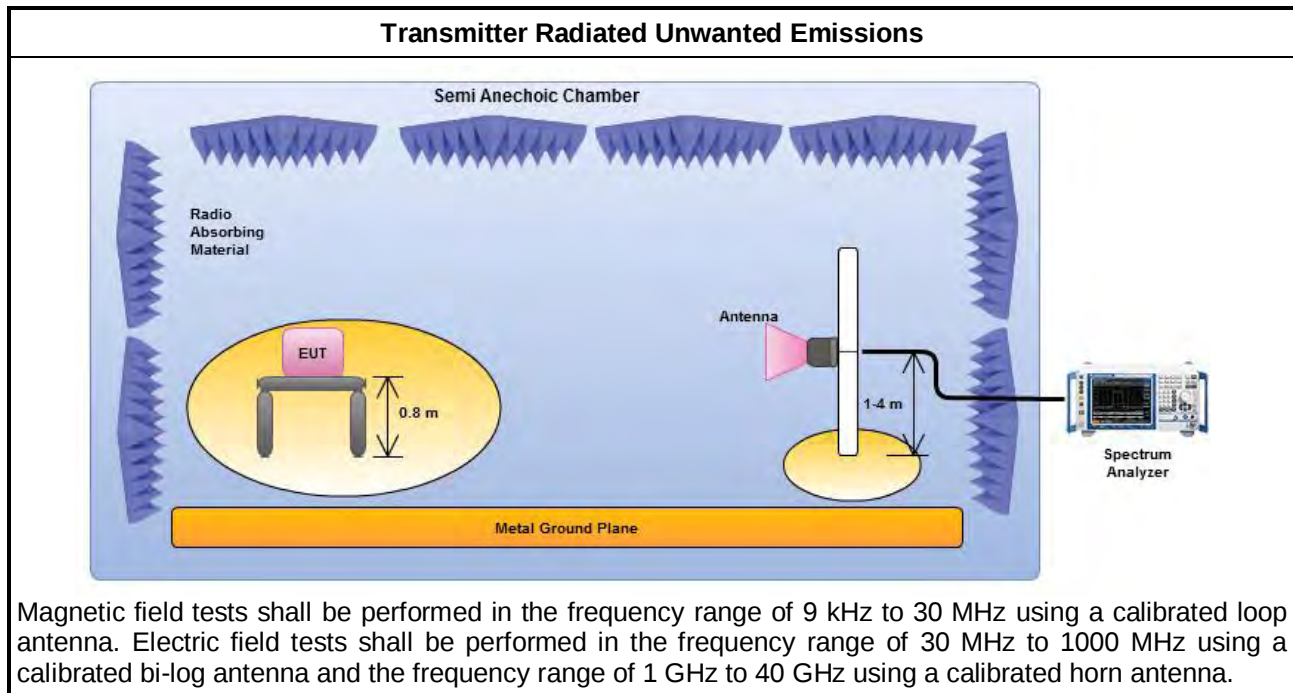
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 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 G)2) for unwanted emissions into non-restricted bands.
☒	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
☐	Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
☒	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW) – Duty $\geq$ 98%.
☐	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
☒	Refer as FCC KDB 789033, clause G)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.

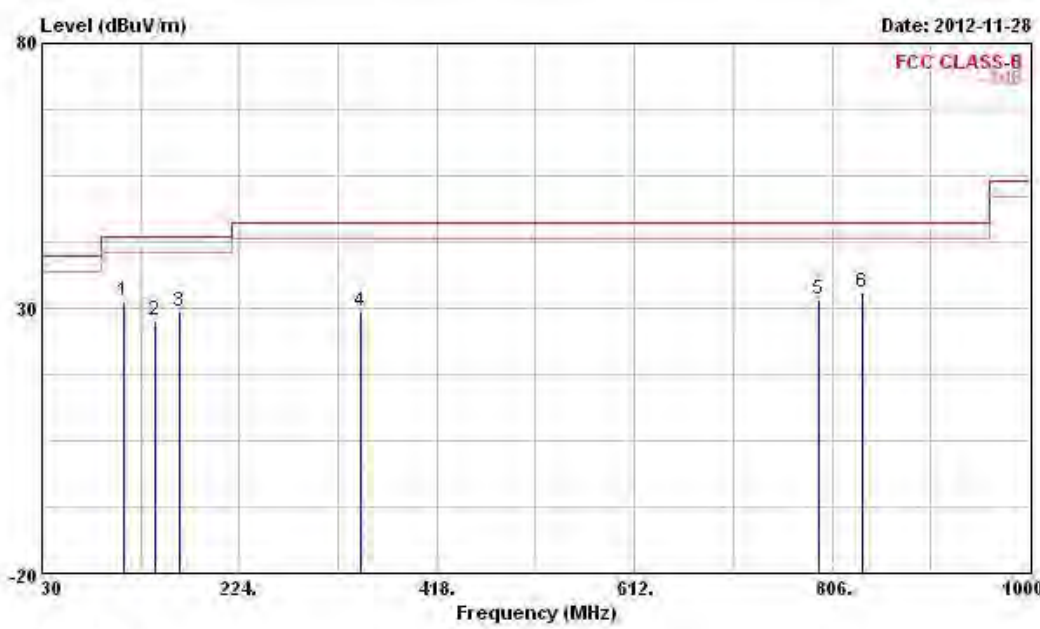
3.7.4 Test Setup



3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

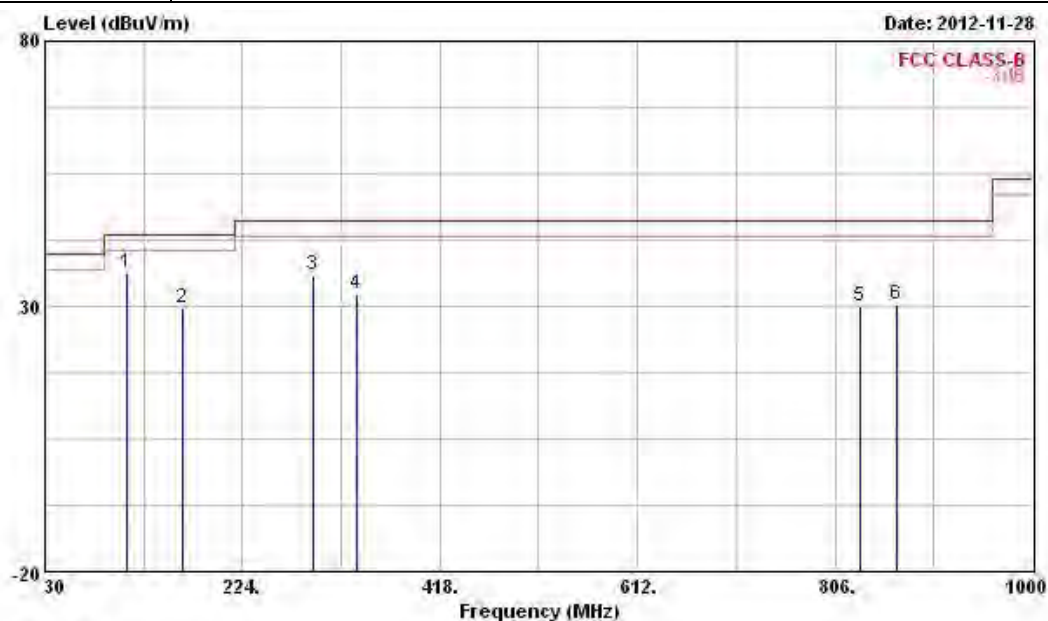
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Radiated Emissions (Below 1GHz)																																																																																																										
Operating Mode	1					Polarization			V																																																																																																	
Operating Function	AC Power & Radio link (WLAN)																																																																																																									
Level (dBuV/m)  Date: 2012-11-28 FCC CLASS-B <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>Preamp Factor</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>110.510</td><td>31.38</td><td>-12.12</td><td>43.50</td><td>44.97</td><td>12.46</td><td>1.75</td><td>27.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>141.550</td><td>27.82</td><td>-15.68</td><td>43.50</td><td>41.71</td><td>11.78</td><td>2.00</td><td>27.67</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>164.830</td><td>29.25</td><td>-14.25</td><td>43.50</td><td>44.33</td><td>10.34</td><td>2.14</td><td>27.56</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>343.310</td><td>29.26</td><td>-16.74</td><td>46.00</td><td>39.20</td><td>14.37</td><td>3.15</td><td>27.46</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>793.390</td><td>31.60</td><td>-14.40</td><td>46.00</td><td>34.52</td><td>20.17</td><td>4.87</td><td>27.96</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>835.100</td><td>33.12</td><td>-12.88</td><td>46.00</td><td>35.75</td><td>20.19</td><td>5.00</td><td>27.82</td><td>Peak</td><td>---</td><td>---</td></tr></table>												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	110.510	31.38	-12.12	43.50	44.97	12.46	1.75	27.80	Peak	---	---	2	141.550	27.82	-15.68	43.50	41.71	11.78	2.00	27.67	Peak	---	---	3	164.830	29.25	-14.25	43.50	44.33	10.34	2.14	27.56	Peak	---	---	4	343.310	29.26	-16.74	46.00	39.20	14.37	3.15	27.46	Peak	---	---	5	793.390	31.60	-14.40	46.00	34.52	20.17	4.87	27.96	Peak	---	---	6	835.100	33.12	-12.88	46.00	35.75	20.19	5.00	27.82	Peak	---	---
	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	110.510	31.38	-12.12	43.50	44.97	12.46	1.75	27.80	Peak	---	---																																																																																															
2	141.550	27.82	-15.68	43.50	41.71	11.78	2.00	27.67	Peak	---	---																																																																																															
3	164.830	29.25	-14.25	43.50	44.33	10.34	2.14	27.56	Peak	---	---																																																																																															
4	343.310	29.26	-16.74	46.00	39.20	14.37	3.15	27.46	Peak	---	---																																																																																															
5	793.390	31.60	-14.40	46.00	34.52	20.17	4.87	27.96	Peak	---	---																																																																																															
6	835.100	33.12	-12.88	46.00	35.75	20.19	5.00	27.82	Peak	---	---																																																																																															
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.)																																																																																																										
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)																																																																																																										

Radiated Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	AC Power & Radio link (WLAN)		

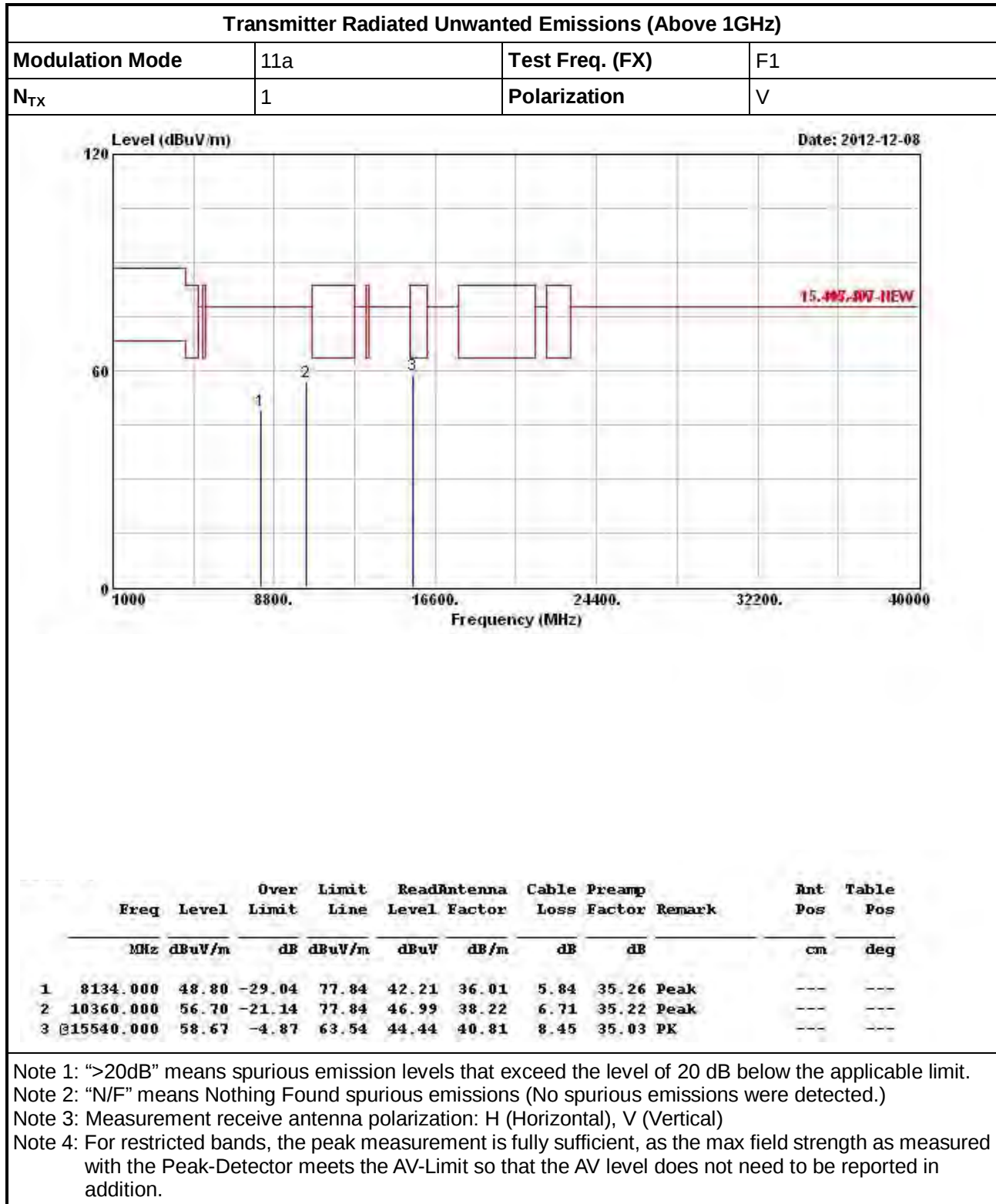


Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	110.510	36.09	-7.41	43.50	49.68	12.46	1.75	27.80 Peak	---	---
2	164.830	29.60	-13.90	43.50	44.68	10.34	2.14	27.56 Peak	---	---
3	292.870	35.78	-10.22	46.00	46.43	13.60	2.93	27.18 Peak	---	---
4	335.550	32.40	-13.60	46.00	42.43	14.26	3.12	27.41 Peak	---	---
5	831.220	29.84	-16.16	46.00	32.49	20.19	4.99	27.83 Peak	---	---
6	867.110	30.40	-15.60	46.00	32.88	20.11	5.12	27.71 Peak	---	---

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

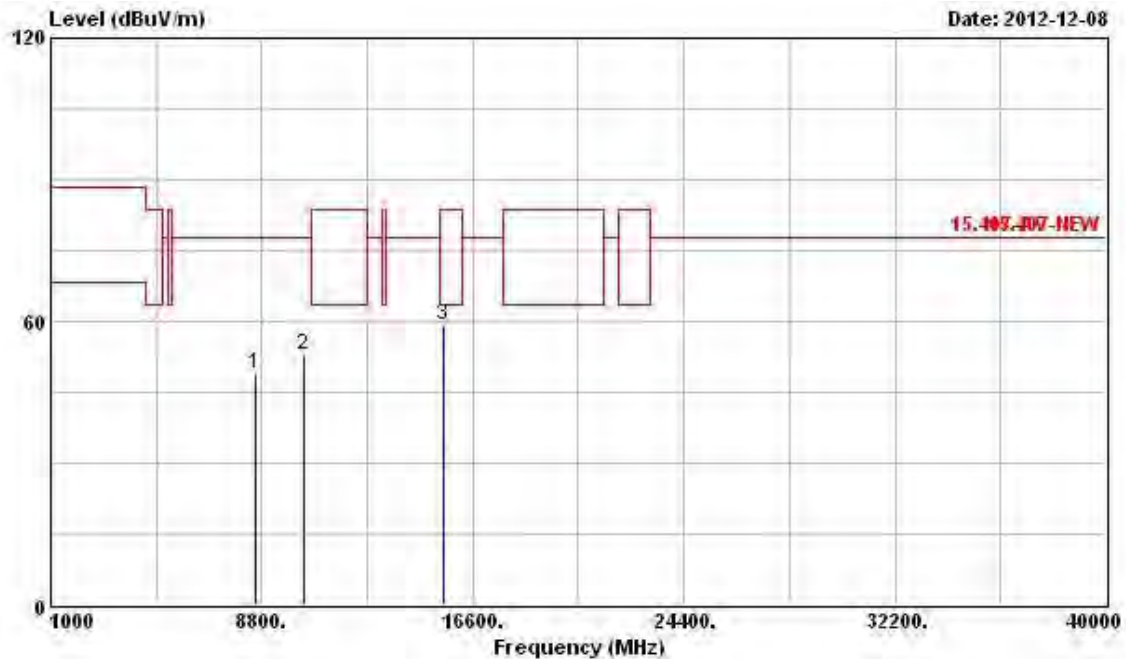
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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

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


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (FX)	F1
N _{TX}	1	Polarization	H

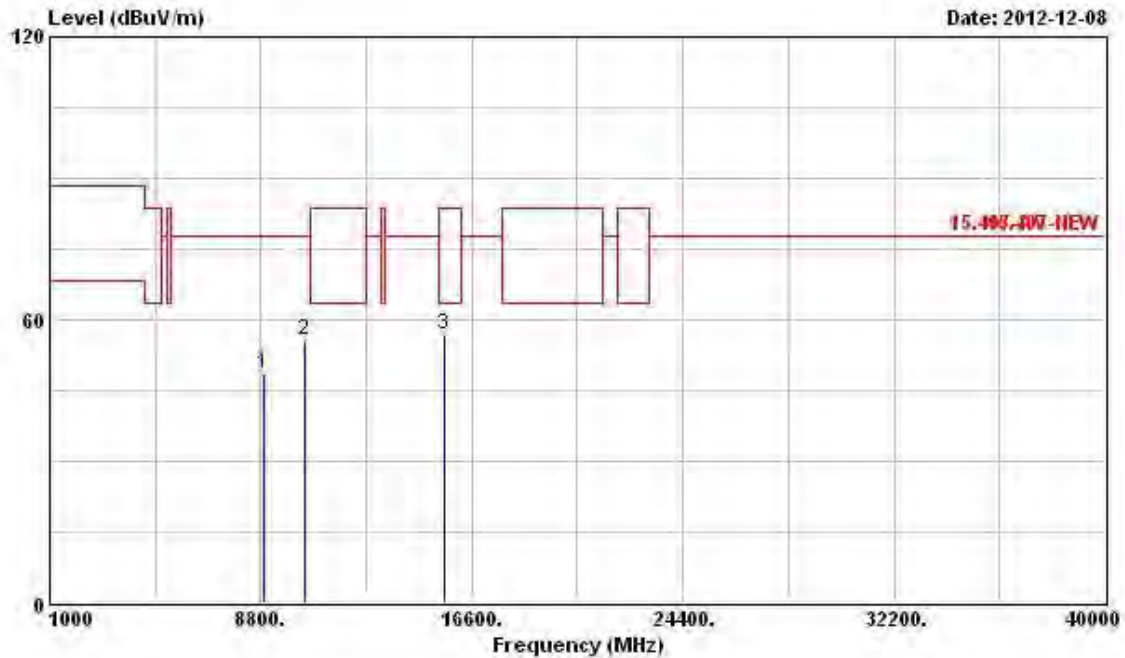


Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8566.000	48.98	-28.86	77.84	41.92	36.34	5.97	35.25 Peak	---	---
2	10360.000	52.89	-24.95	77.84	43.18	38.22	6.71	35.22 Peak	---	---
3	15540.000	59.14	-4.40	63.54	44.91	40.81	8.45	35.03 PK	---	---

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. (FX)	F2
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	8926.000	48.53	-29.31	77.84	41.16	36.55	6.13	35.31	Peak	---	---
2	10400.000	55.70	-22.14	77.84	45.89	38.24	6.75	35.18	Peak	---	---
3	15600.000	56.97	-6.57	63.54	42.78	40.84	8.45	35.10	PK	---	---

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

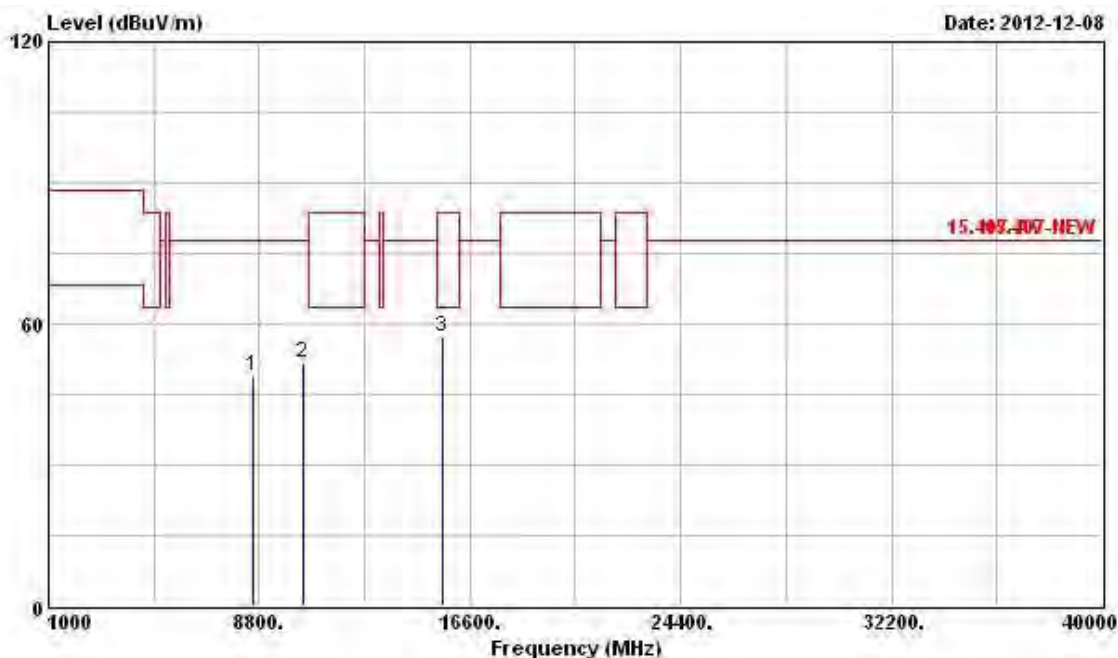
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F2
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	8566.000	48.79	-29.05	77.84	41.73	36.34	5.97	35.25	Peak	---	---
2	10400.000	51.81	-26.03	77.84	42.00	38.24	6.75	35.18	Peak	---	---
3	15600.000	57.33	-6.21	63.54	43.14	40.84	8.45	35.10	PK	---	---

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

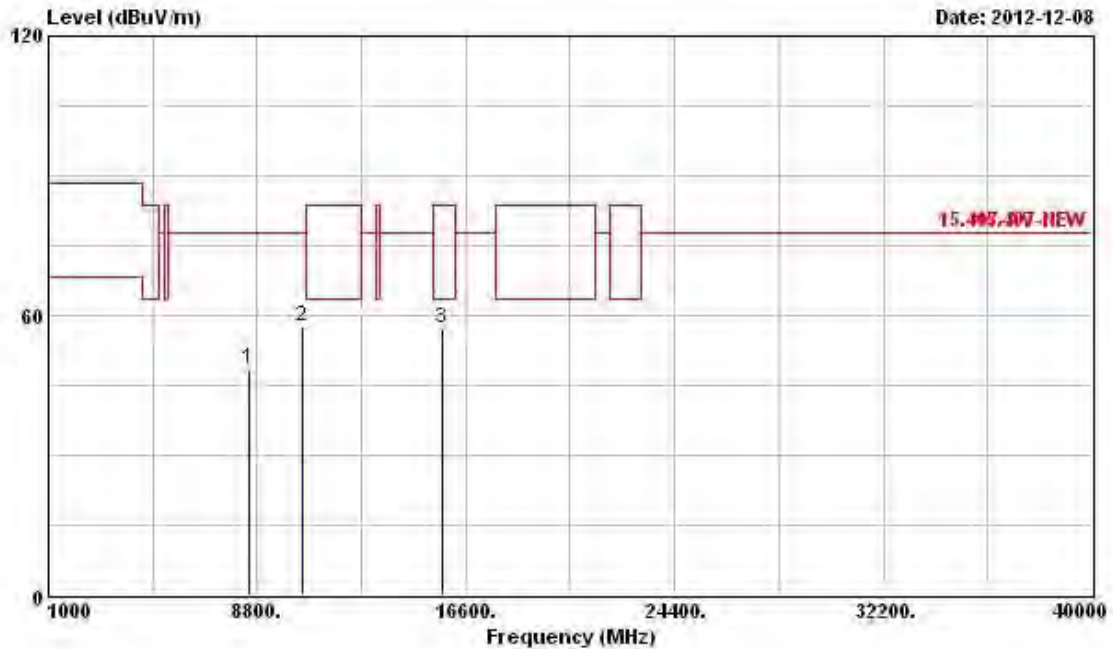
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F3
N _{TX}	1	Polarization	V

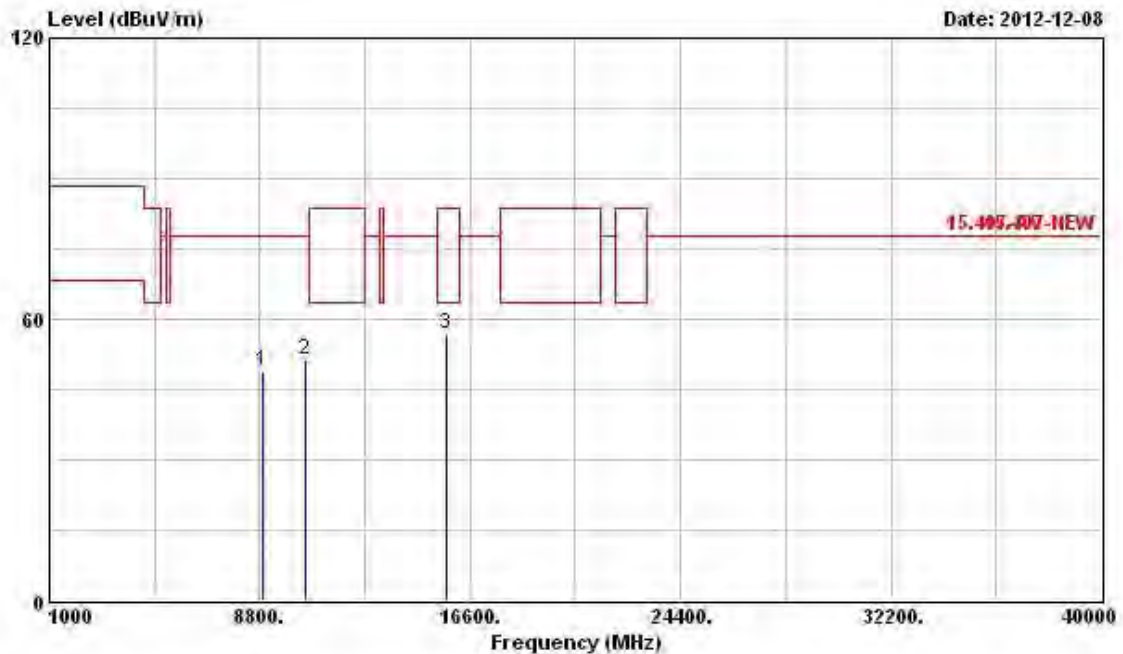


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8530.000	48.73	-29.11	77.84	41.69	36.32	5.96	35.24	Peak	---	---
2	10480.000	57.68	-20.16	77.84	47.69	38.29	6.82	35.12	Peak	---	---
3	15720.000	57.25	-6.29	63.54	43.10	40.89	8.46	35.20	PK	---	---

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. (FX)	F3
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	8899.000	49.04	-28.80	77.84	41.67	36.54	6.13	35.30	Peak	---	---
2	10480.000	51.17	-26.67	77.84	41.18	38.29	6.82	35.12	Peak	---	---
3	15720.000	56.76	-6.78	63.54	42.61	40.89	8.46	35.20	PK	---	---

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

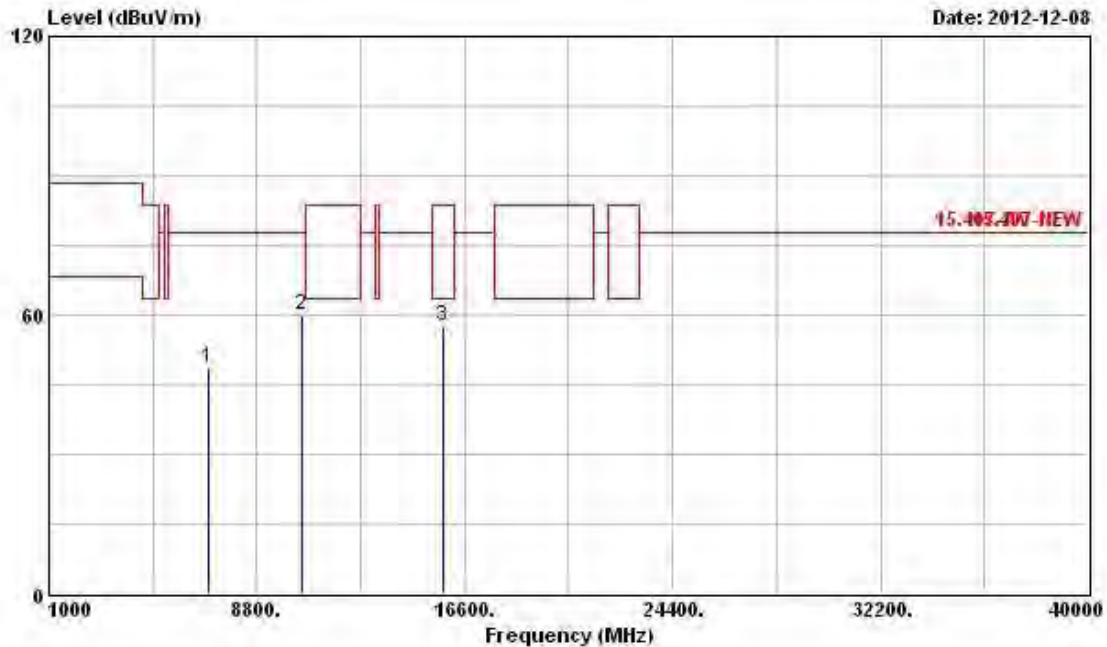
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F4
N_{TX}	1	Polarization	V

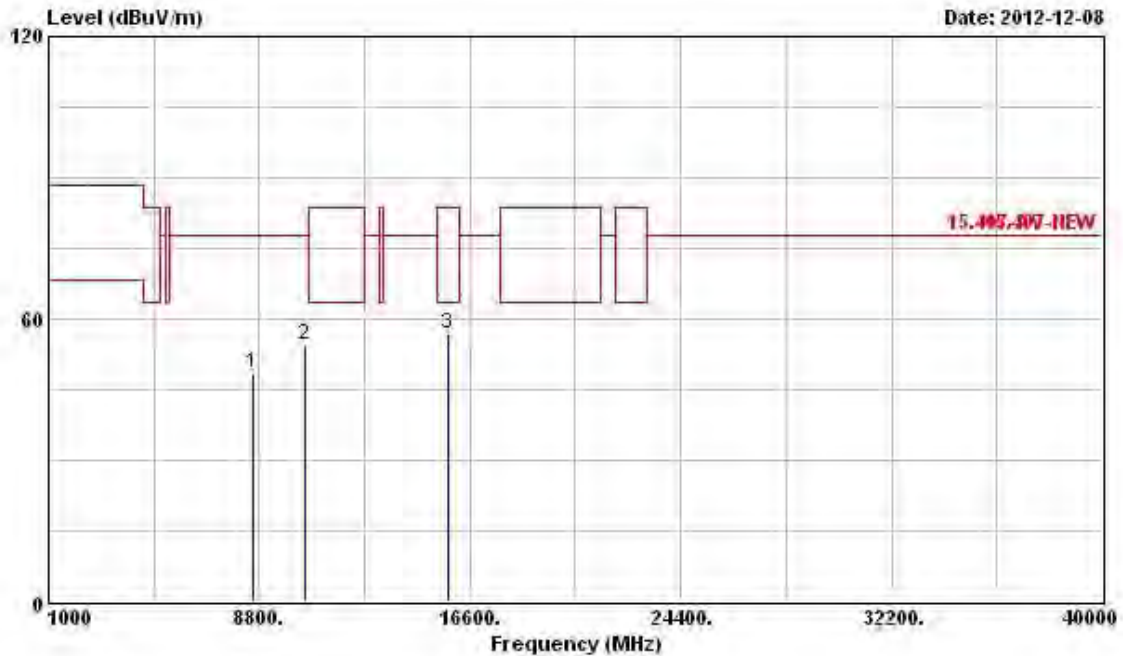


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7000.000	48.73	-29.11	77.84	42.25	35.90	5.60	35.02	Peak	---	---
2	10520.000	60.09	-17.75	77.84	50.03	38.31	6.85	35.10	Peak	---	---
3	15780.000	57.68	-5.86	63.54	43.59	40.91	8.46	35.28	PK	---	---

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. (FX)	F4
N_{TX}	1	Polarization	H

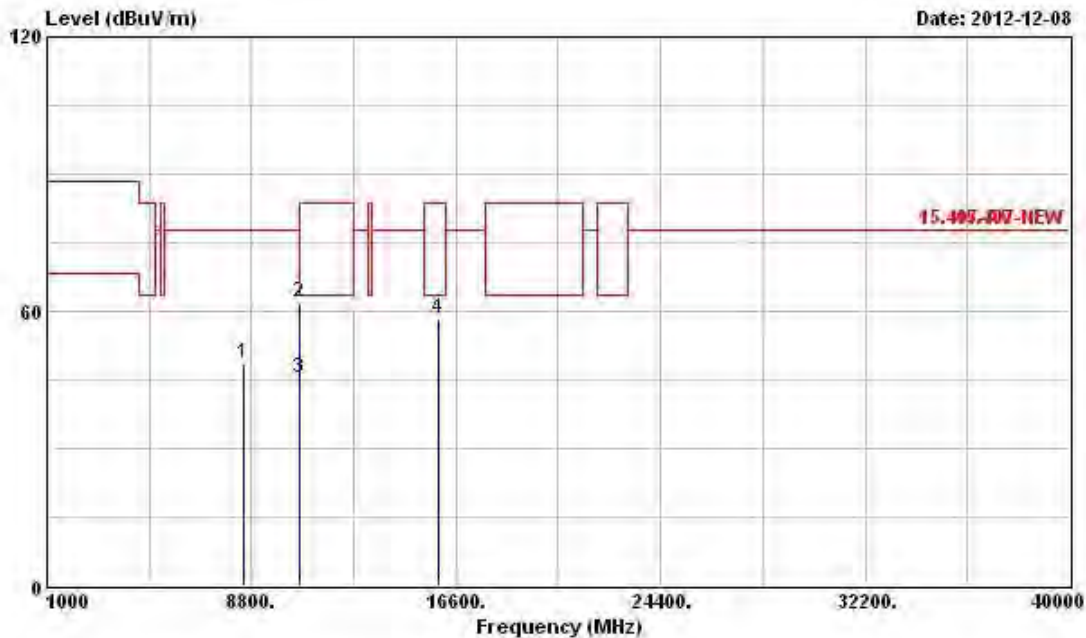


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8539.000	48.41	-29.43	77.84	41.38	36.32	5.96	35.25	Peak	---	---
2	10520.000	54.60	-23.24	77.84	44.54	38.31	6.85	35.10	Peak	---	---
3	15780.000	56.97	-6.57	63.54	42.88	40.91	8.46	35.28	PK	---	---

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. (FX)	F5
N _{TX}	1	Polarization	V

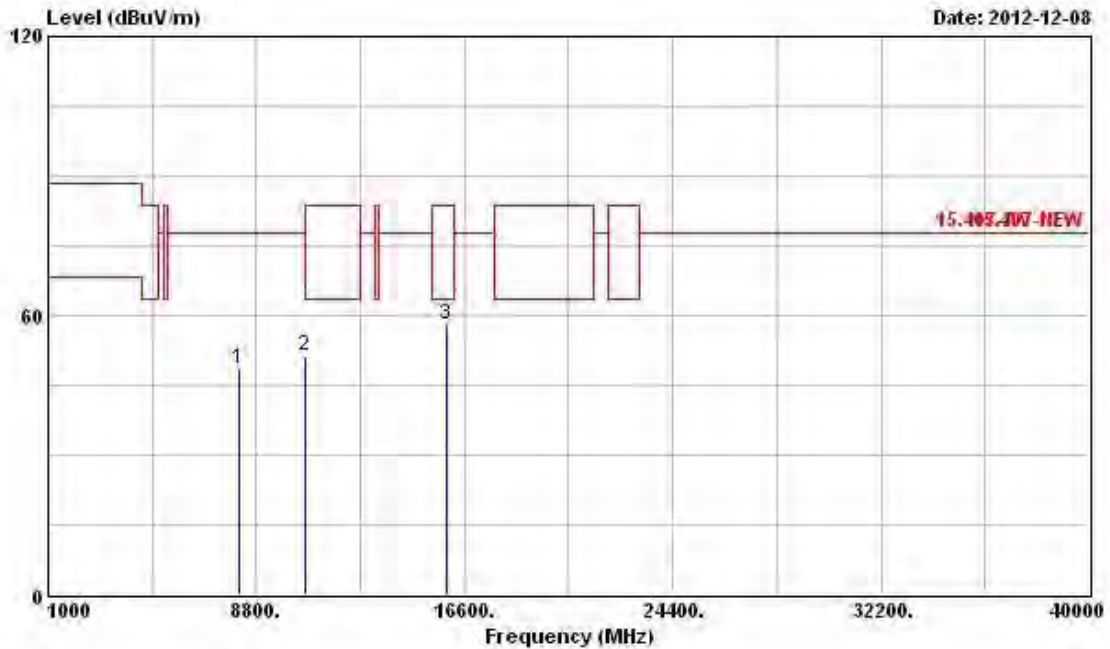


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	8530.000	48.64	-29.20	77.84	41.60	36.32	5.96	35.24	Peak	---
2	10600.000	61.93	-15.91	77.84	51.71	38.36	6.90	35.04	Peak	---
3	10600.000	45.47	-18.07	63.54	35.25	38.36	6.90	35.04	Average	---
4	15900.000	58.35	-5.19	63.54	44.30	40.96	8.47	35.38	PK	---

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. (FX)	F5
N _{TX}	1	Polarization	H

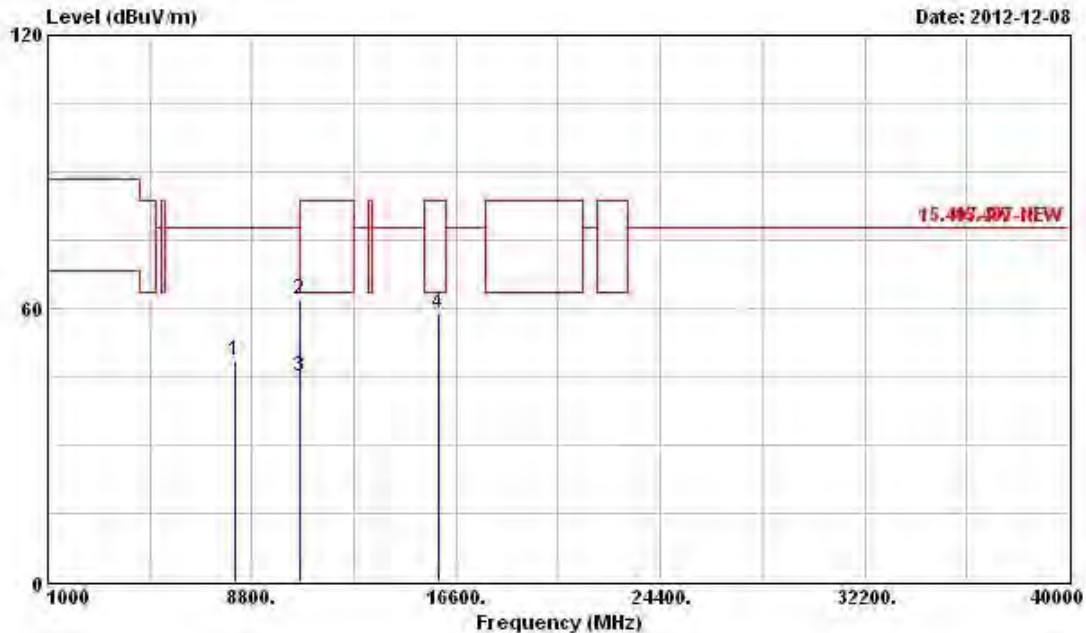


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8170.000	48.41	-29.43	77.84	41.78	36.04	5.85	35.26	Peak	---	---
2	10600.000	51.28	-12.26	63.54	41.06	38.36	6.90	35.04	PK	---	---
3	15900.000	58.02	-5.52	63.54	43.97	40.96	8.47	35.38	PK	---	---

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. (FX)	F6
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	8170.000	48.50	-29.34	77.84	41.87	36.04	5.85	35.26	Peak	---
2	10640.000	61.87	-21.67	83.54	51.56	38.38	6.93	35.00	Peak	---
3	10640.000	44.94	-18.60	63.54	34.63	38.38	6.93	35.00	Average	---
4	15960.000	58.72	-4.82	63.54	44.71	40.99	8.47	35.45	PK	---

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

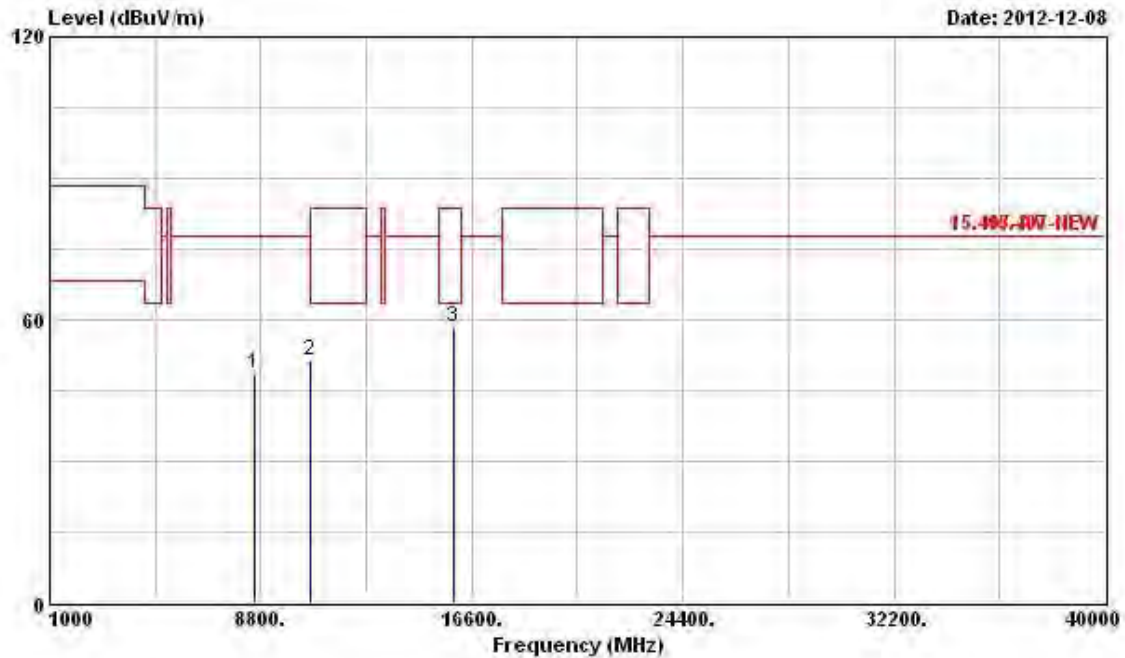
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F6
N _{TX}	1	Polarization	H

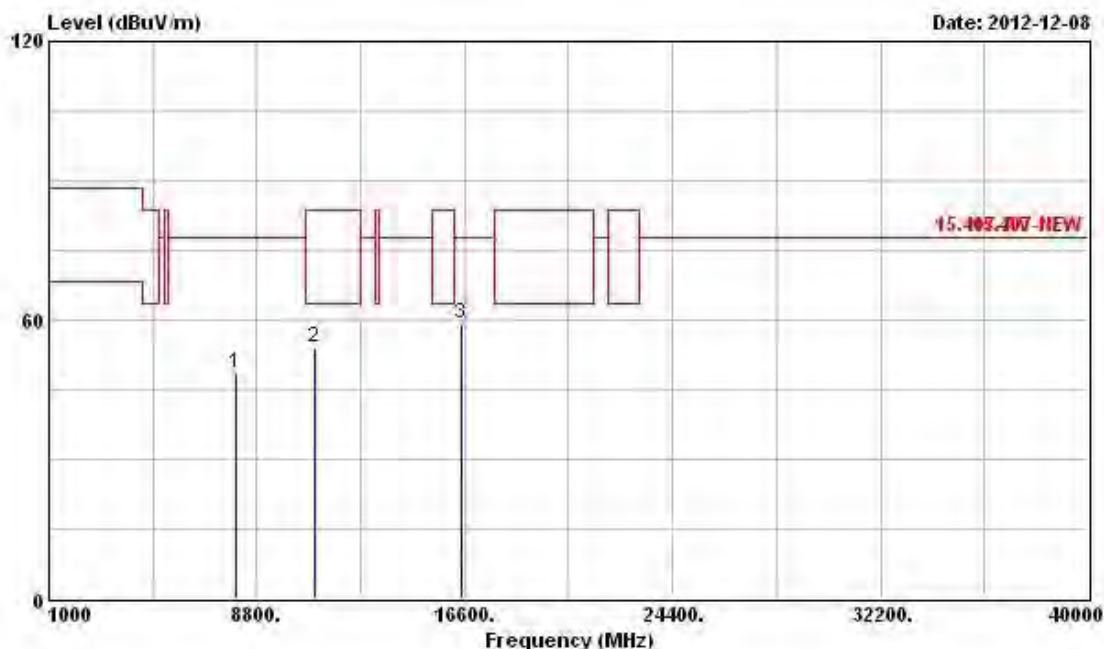


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8539.000	48.56	-29.28	77.84	41.53	36.32	5.96	35.25	Peak	---	---
2	10640.000	51.21	-12.33	63.54	40.90	38.38	6.93	35.00	PK	---	---
3	15960.000	58.32	-5.22	63.54	44.31	40.99	8.47	35.45	PK	---	---

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. (FX)	F7
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	8020.000	48.65	-29.19	77.84	42.20	35.91	5.81	35.27	Peak	---	---
2	11000.000	54.13	-9.41	63.54	43.08	38.60	7.17	34.72	PK	---	---
3	16500.000	59.06	-18.78	77.84	43.81	42.00	8.24	34.99	Peak	---	---

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

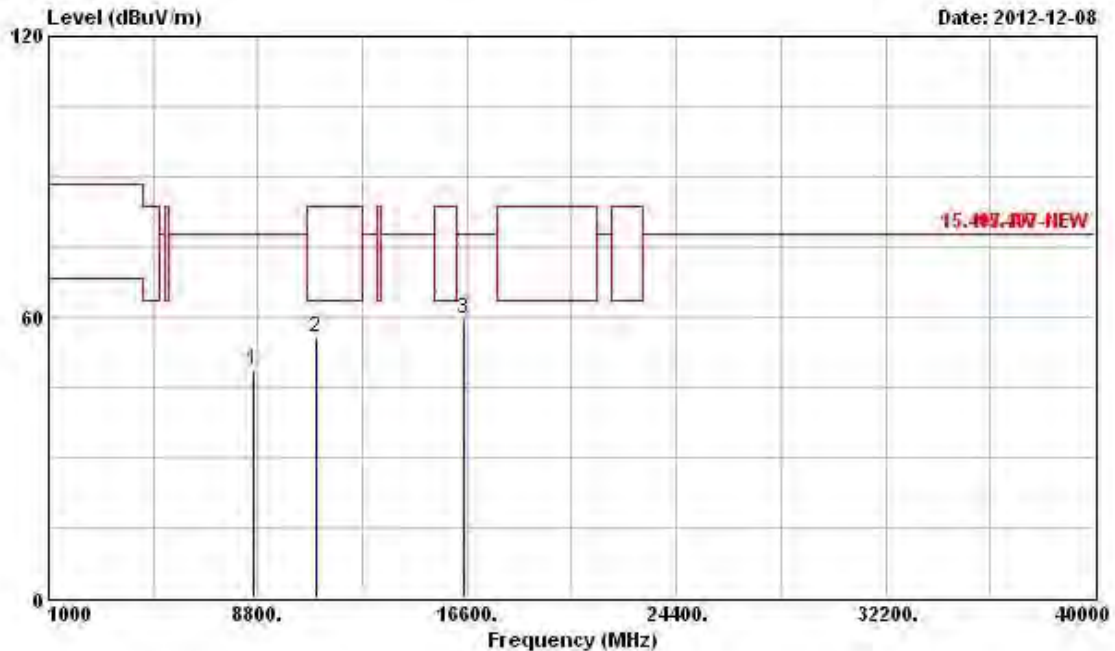
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F7
N _{TX}	1	Polarization	H

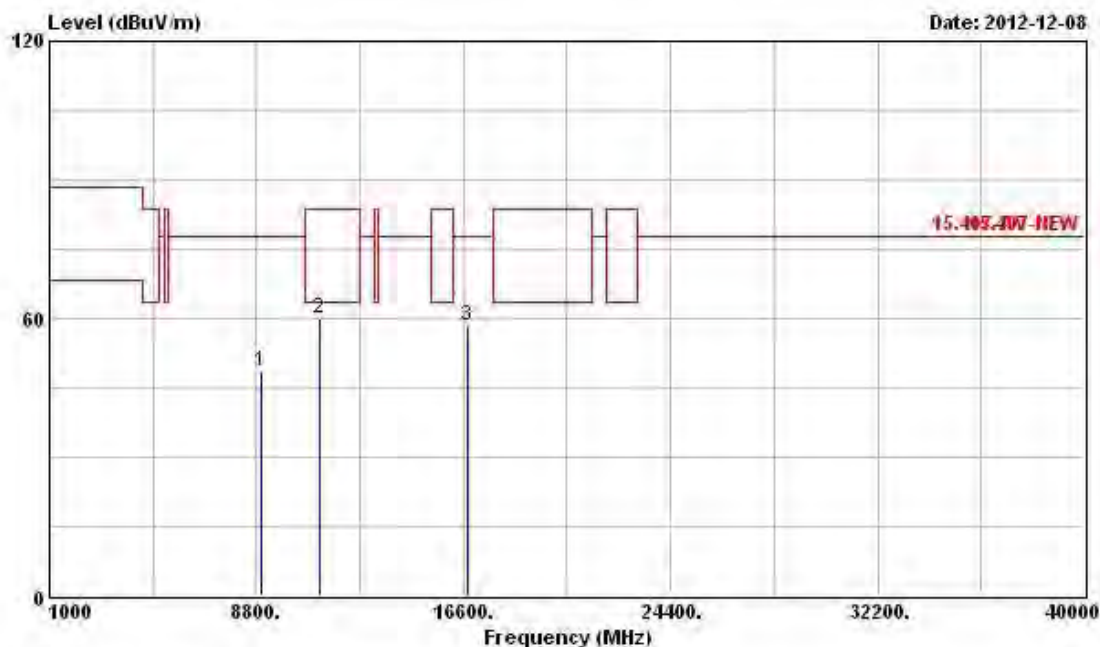


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8620.000	48.68	-29.16	77.84	41.58	36.37	5.99	35.26	Peak	---	---
2	@11000.000	55.54	-8.00	63.54	44.49	38.60	7.17	34.72	PK	---	---
3	16500.000	59.46	-18.38	77.84	44.21	42.00	8.24	34.99	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. (FX)	F8
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	8950.000	48.69	-29.15	77.84	41.29	36.57	6.14	35.31	Peak	---	---
2	11160.000	60.06	-23.48	83.54	49.12	38.70	6.96	34.72	PK	---	---
3	16740.000	58.55	-19.29	77.84	42.73	41.86	8.47	34.51	Peak	---	---

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

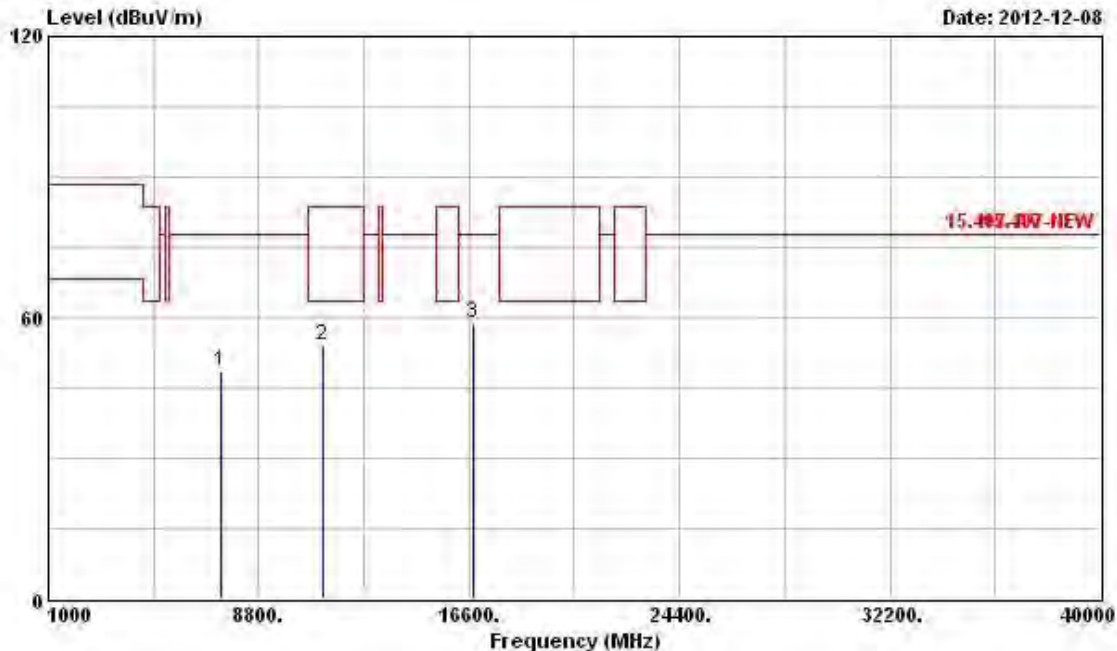
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	11a	Test Freq. (FX)	F8
N _{TX}	1	Polarization	H

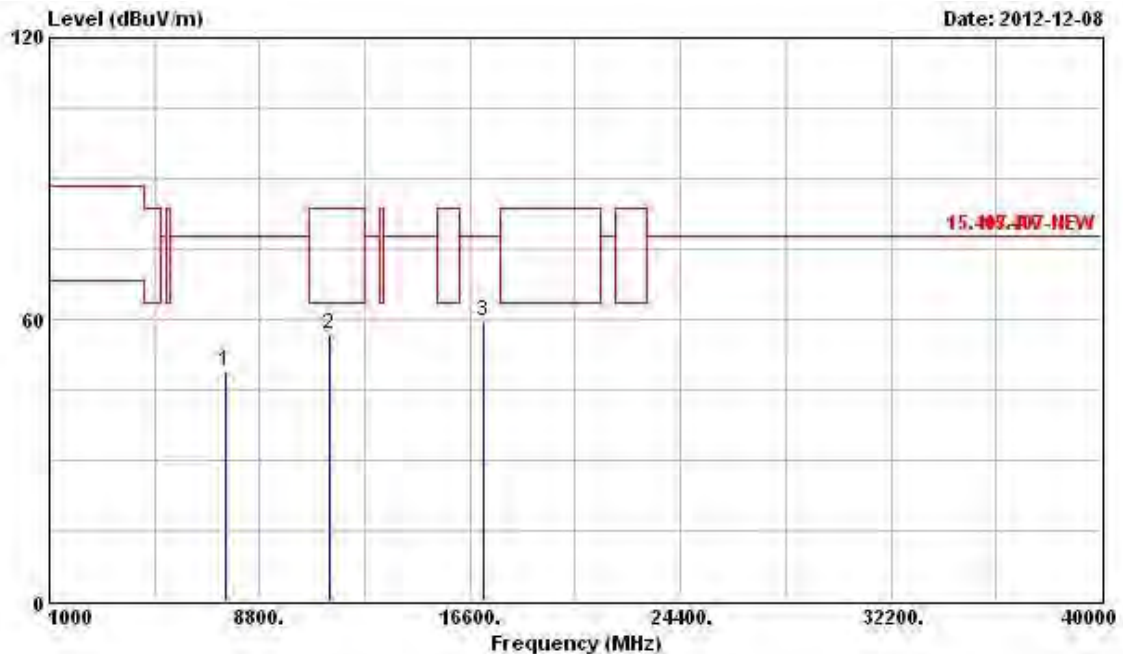


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7430.000	48.42	-29.42	77.84	42.09	35.81	5.65	35.13	Peak	---	---
2	11160.000	53.91	-9.63	63.54	42.97	38.70	6.96	34.72	PK	---	---
3	16740.000	58.66	-19.18	77.84	42.84	41.86	8.47	34.51	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	11a	Test Freq. (FX)	F9
N _{TX}	1	Polarization	V

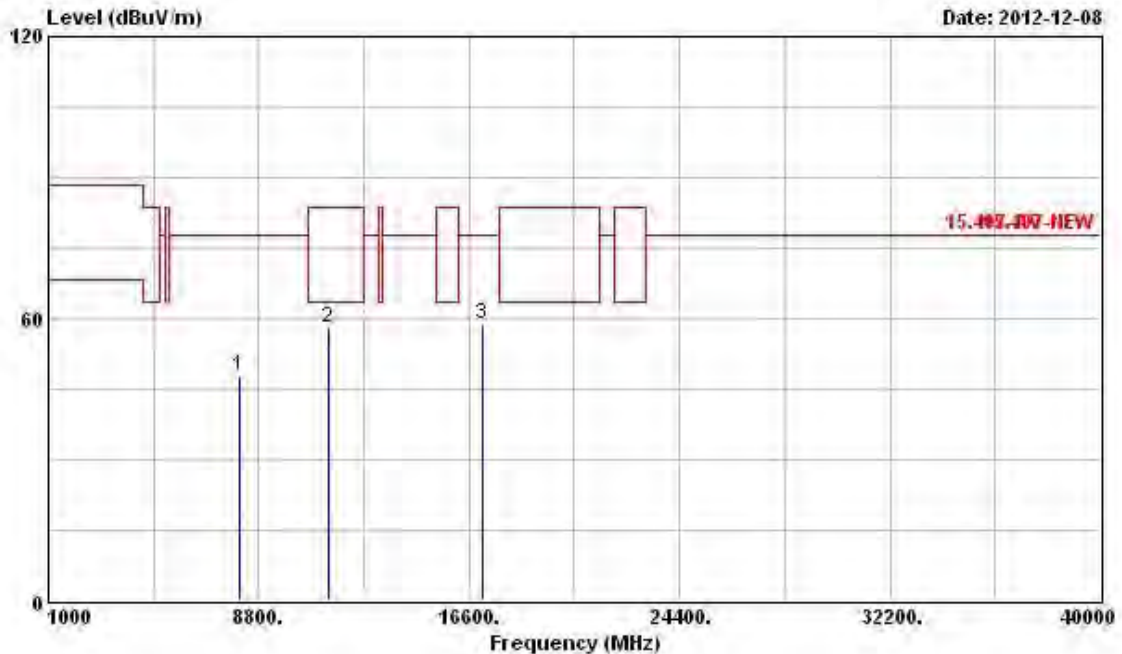


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	48.82	-29.02	77.84	42.50	35.81	5.67	35.16	Peak	---	---
2	@11400.000	56.95	-6.59	63.54	46.12	38.84	6.71	34.72	PK	---	---
3	17100.000	59.62	-18.22	77.84	43.33	41.66	8.61	33.98	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. (FX)	F9
N _{TX}	1	Polarization	H

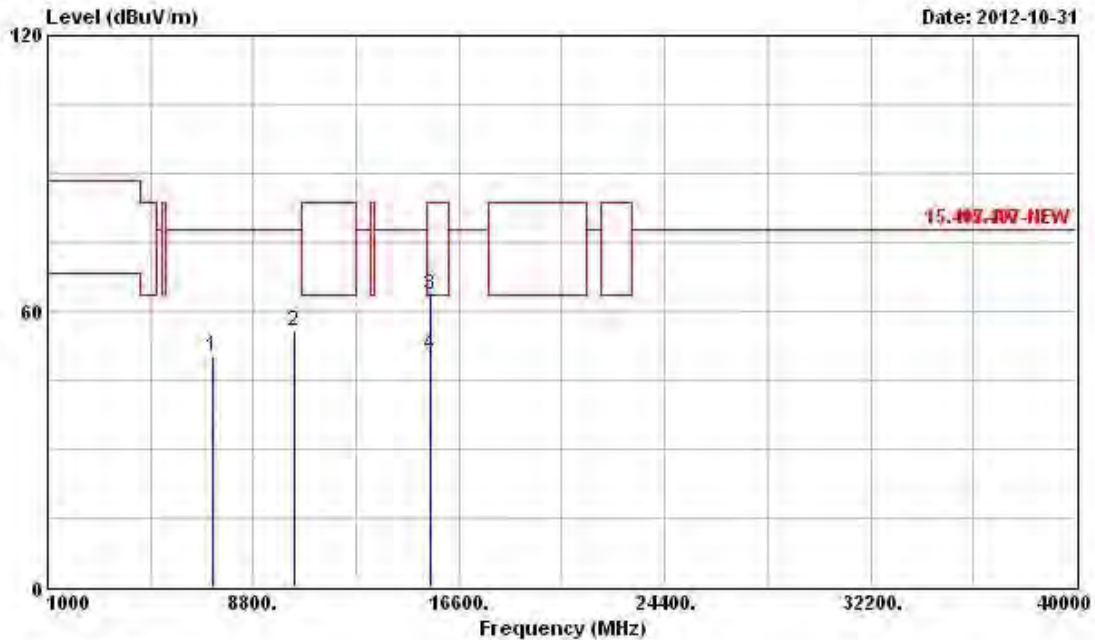


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8089.000	47.91	-29.93	77.84	41.38	35.97	5.83	35.27	Peak	---	---
2	11400.000	58.12	-5.42	63.54	47.29	38.84	6.71	34.72	PK	---	---
3	17100.000	58.81	-19.03	77.84	42.52	41.66	8.61	33.98	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. (FX)	F1
N _{TX}	3	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp			Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level Factor	Loss Factor	dB	dB	Pos	Pos
									cm	deg
1	7234.000	50.21	-27.63	77.84	43.81	35.85	5.63	35.08	Peak	---
2	10360.000	55.48	-22.36	77.84	45.77	38.22	6.71	35.22	Peak	---
3	15540.000	63.41	-20.13	83.54	49.18	40.81	8.45	35.03	Peak	---
4	15540.000	50.55	-12.99	63.54	36.32	40.81	8.45	35.03	Average	---

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

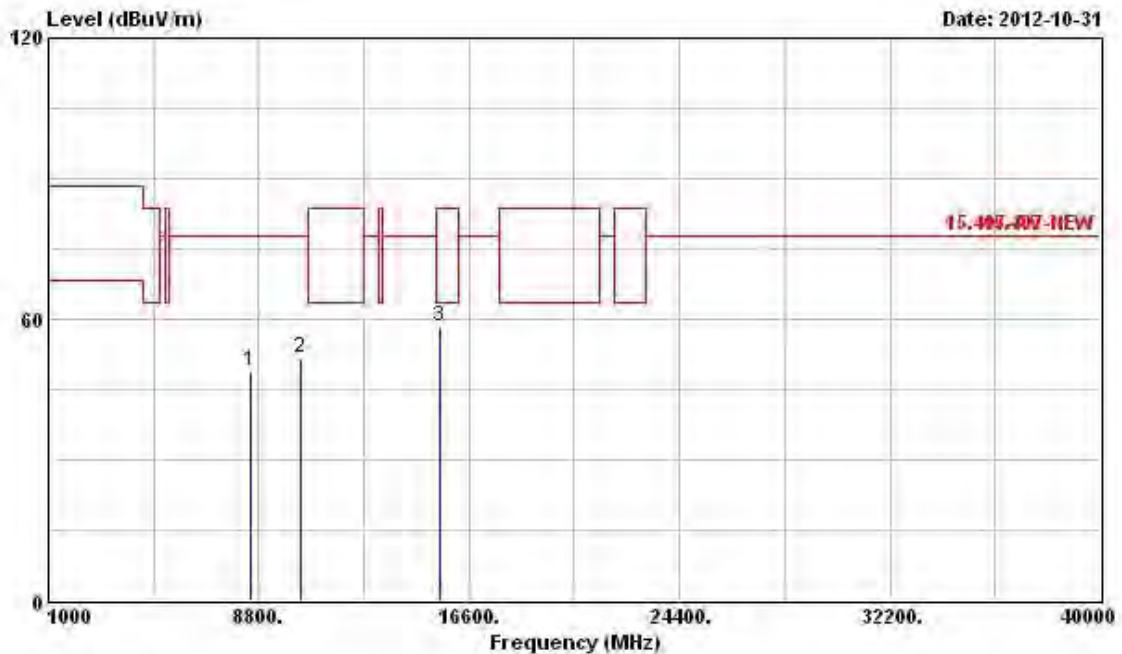
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (FX)	F1
N _{TX}	3	Polarization	H

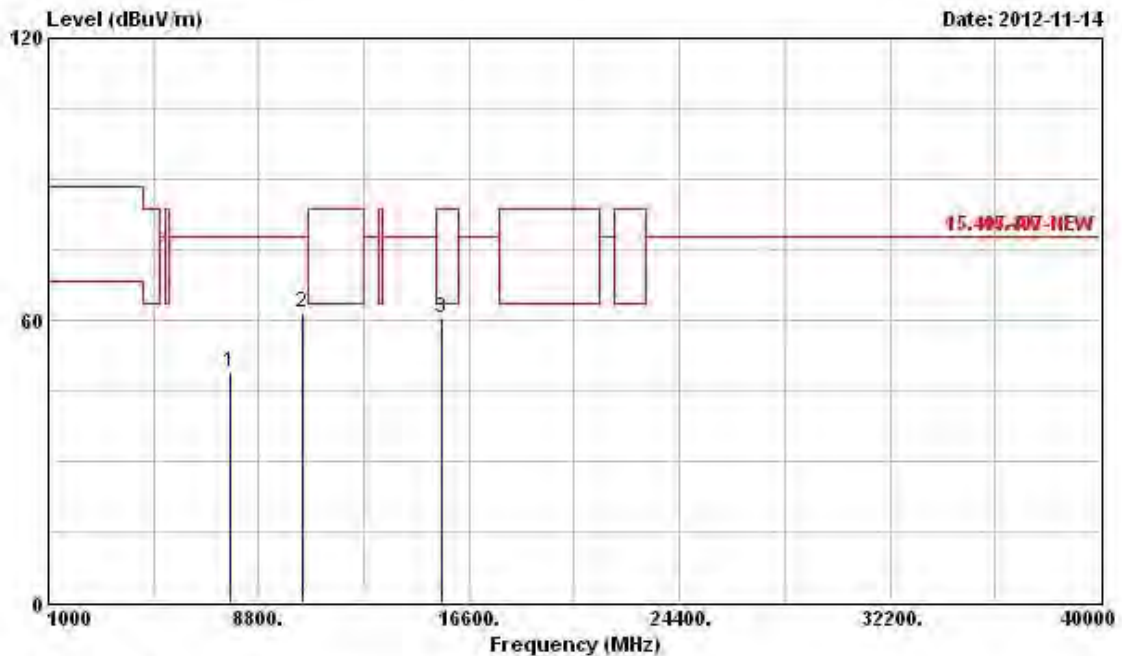


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8530.000	49.00	-28.84	77.84	41.96	36.32	5.96	35.24	Peak	---	---
2	10360.000	51.88	-25.96	77.84	42.17	38.22	6.71	35.22	Peak	---	---
3	15540.000	58.32	-5.22	63.54	44.09	40.81	8.45	35.03	PK	---	---

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. (FX)	F2
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	7747.000	48.84	-29.00	77.84	42.47	35.85	5.73	35.21	Peak	---	---
2	10400.000	61.51	-16.33	77.84	51.70	38.24	6.75	35.18	Peak	---	---
3	15600.000	60.49	-3.05	63.54	46.30	40.84	8.45	35.10	PK	---	---

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

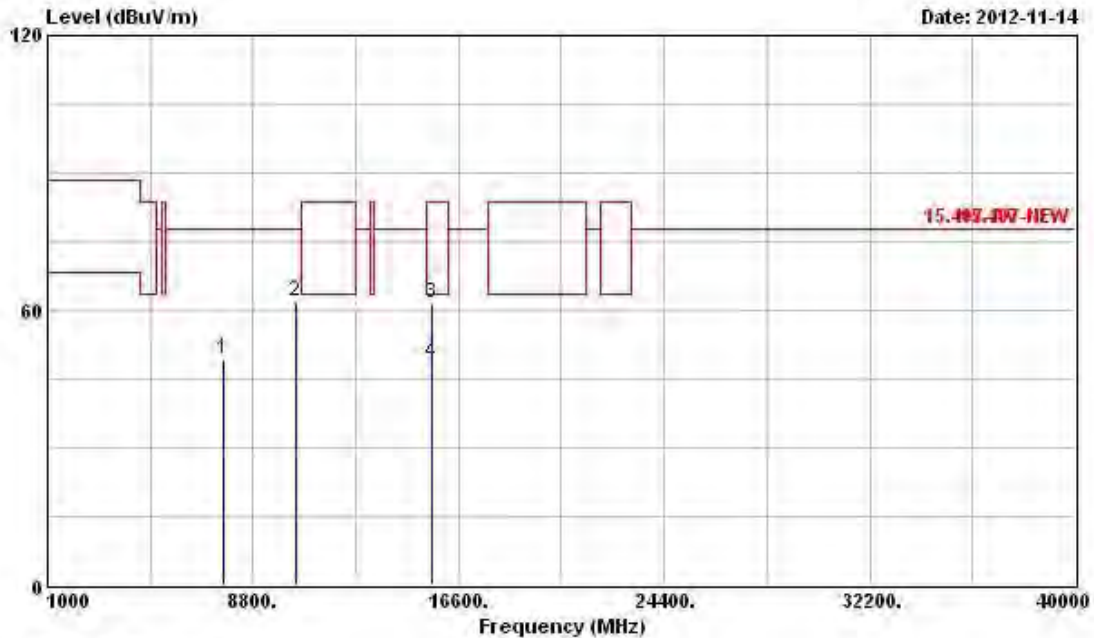
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F2
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	7702.000	49.20	-28.64	77.84	42.84	35.84	5.72	35.20	Peak	---	---
2	10400.000	61.89	-15.95	77.84	52.08	38.24	6.75	35.18	Peak	---	---
3	15600.000	61.57	-21.97	83.54	47.38	40.84	8.45	35.10	Peak	---	---
4	15600.000	48.67	-14.87	63.54	34.48	40.84	8.45	35.10	Average	---	---

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

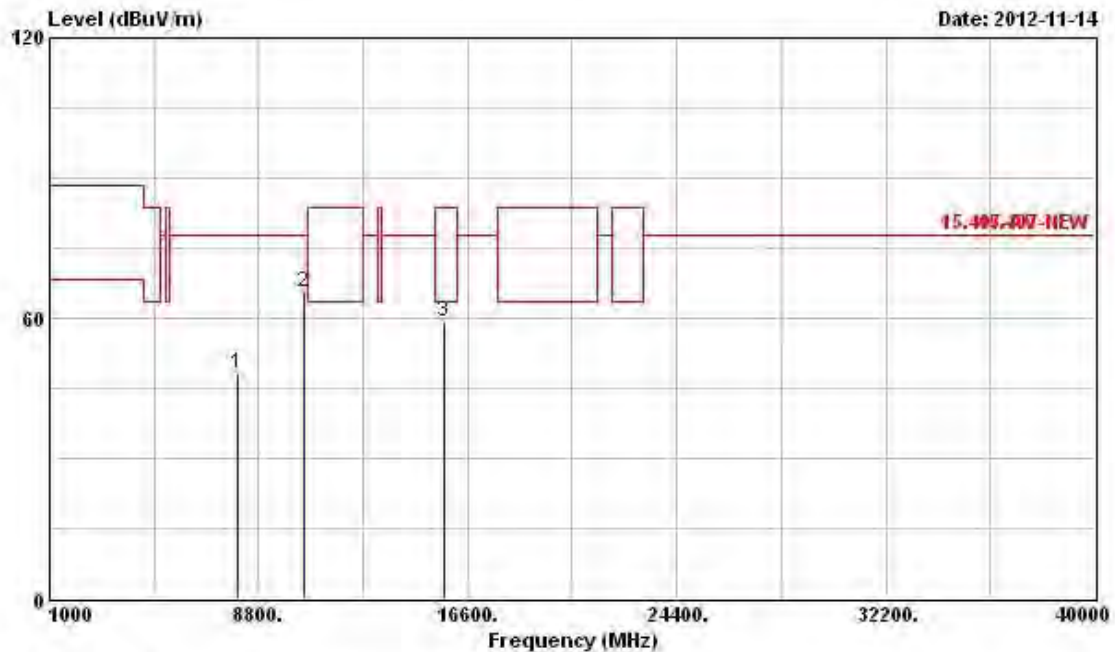
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F3
N _{TX}	3	Polarization	V

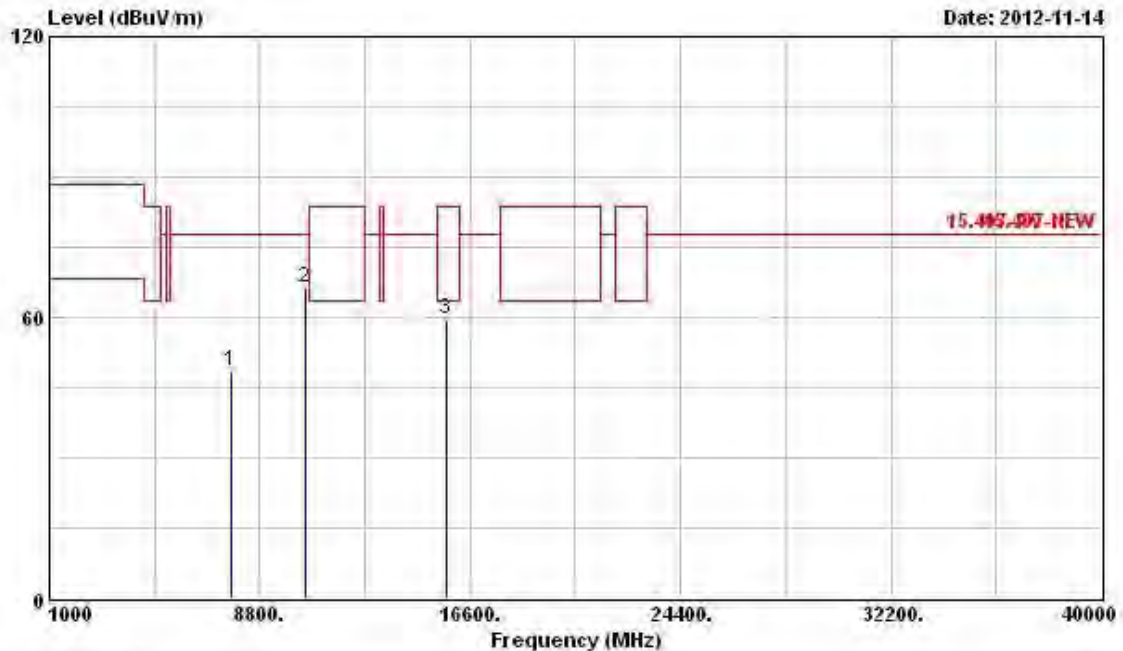


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7999.000	48.26	-29.58	77.84	41.82	35.90	5.80	35.26	Peak	---	---
2	10480.000	65.41	-12.43	77.84	55.42	38.29	6.82	35.12	Peak	---	---
3	15720.000	59.17	-4.37	63.54	45.02	40.89	8.46	35.20	PK	---	---

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. (FX)	F3
N_{TX}	3	Polarization	H

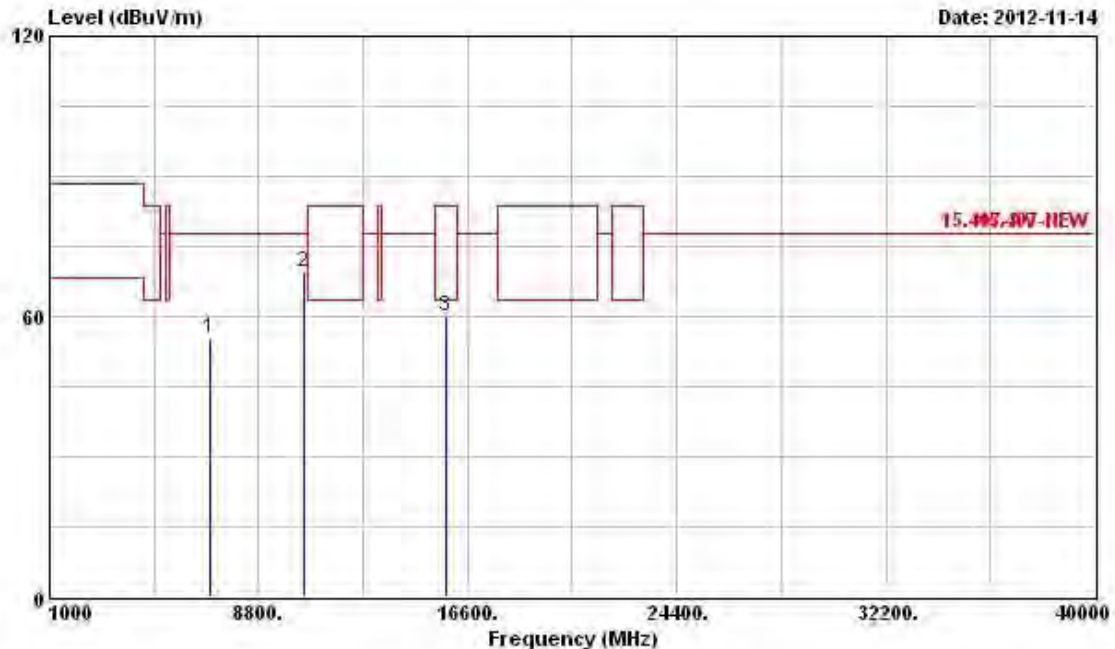


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7774.000	48.61	-29.23	77.84	42.24	35.85	5.74	35.22	Peak	---	---
2	10480.000	66.49	-11.35	77.84	56.50	38.29	6.82	35.12	Peak	---	---
3	@15720.000	59.66	-3.88	63.54	45.51	40.89	8.46	35.20	PK	---	---

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. (FX)	F4
N_{TX}	3	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7000.000	55.38	-22.46	77.84	48.90	35.90	5.60	35.02	Peak	---	---
2	10520.000	69.33	-8.51	77.84	59.27	38.31	6.85	35.10	Peak	---	---
3	15780.000	60.08	-3.46	63.54	45.99	40.91	8.46	35.28	PK	---	---

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

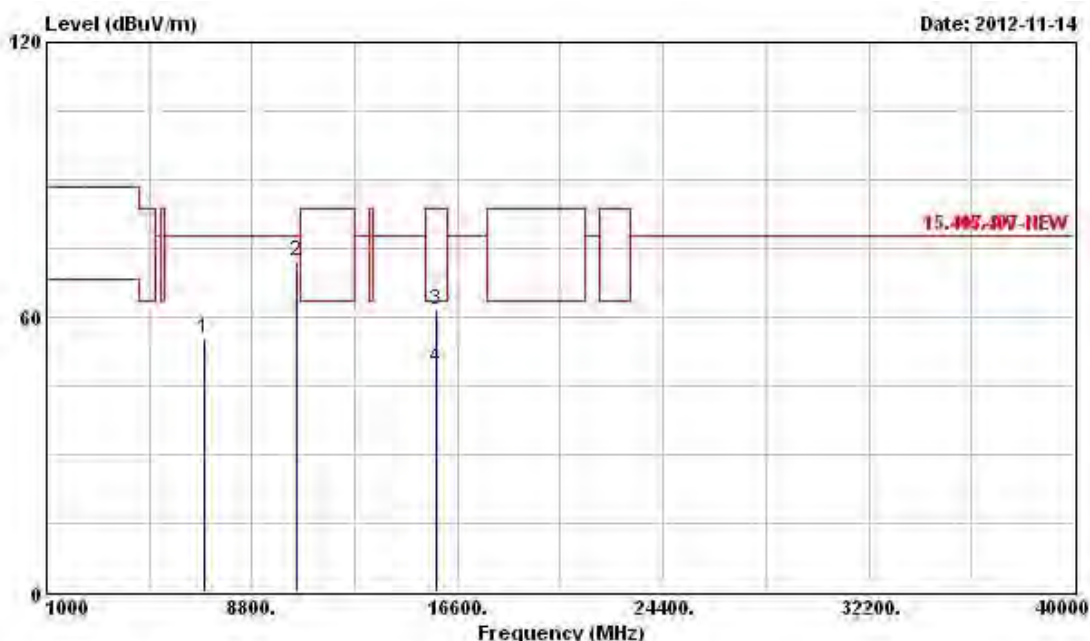
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F4
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	7000.000	55.14	-22.70	77.84	48.66	35.90	5.60	35.02	Peak	---	---
2	10520.000	72.11	-5.73	77.84	62.05	38.31	6.85	35.10	Peak	---	---
3	15780.000	61.56	-21.98	83.54	47.47	40.91	8.46	35.28	Peak	---	---
4	15780.000	49.01	-14.53	63.54	34.92	40.91	8.46	35.28	Average	---	---

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

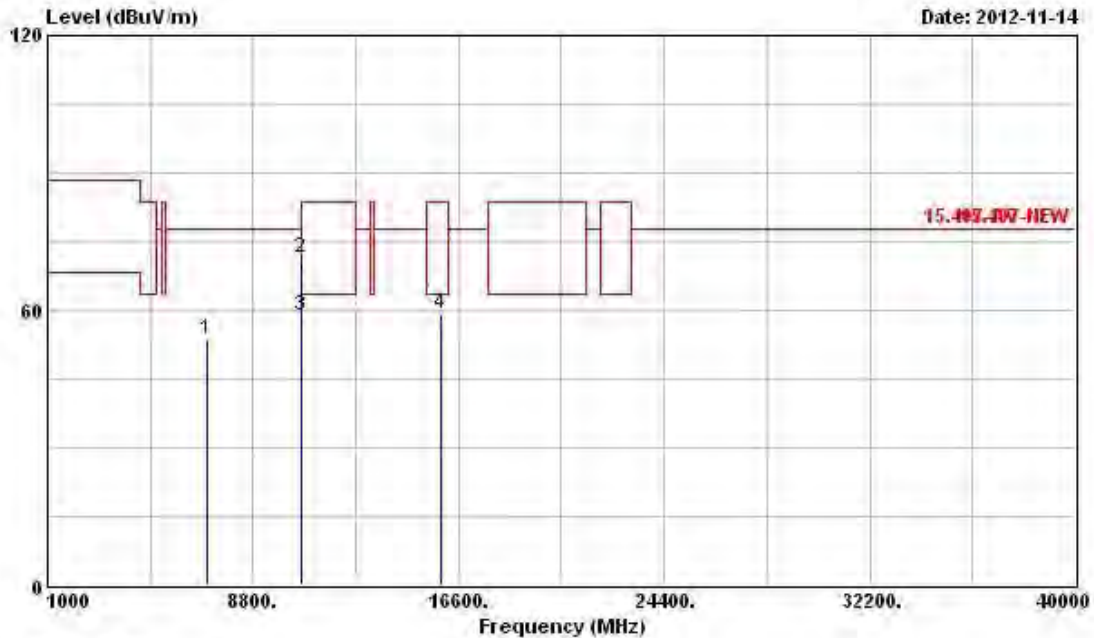
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F5
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
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7066.000	53.79	-24.05	77.84	47.33	35.89	5.61	35.04	Peak	---	---
2	10600.100	71.63	-11.91	83.54	61.41	38.36	6.90	35.04	Peak	---	---
3	@10600.100	58.63	-4.91	63.54	48.41	38.36	6.90	35.04	Average	---	---
4	@15900.000	59.27	-4.27	63.54	45.22	40.96	8.47	35.38	PK	---	---

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

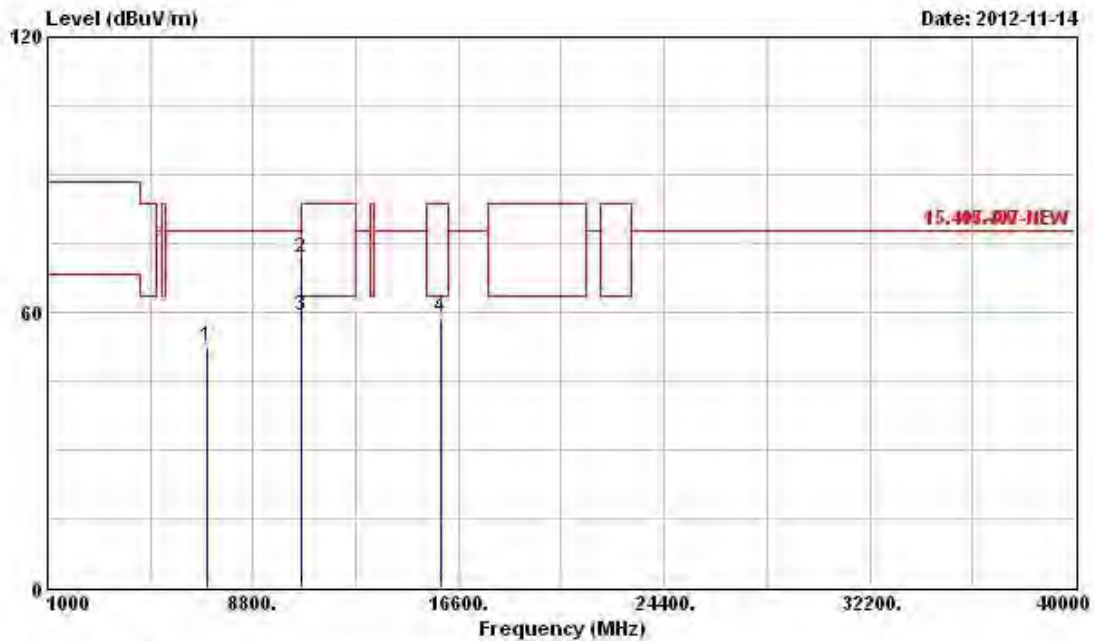
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F5
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	7054.000	52.62	-25.22	77.84	46.16	35.89	5.60	35.03	Peak	---	---
2	10600.100	71.82	-11.72	83.54	61.60	38.36	6.90	35.04	Peak	---	---
3	10600.100	59.22	-4.32	63.54	49.00	38.36	6.90	35.04	Average	---	---
4	15900.000	58.83	-4.71	63.54	44.78	40.96	8.47	35.38	PK	---	---

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

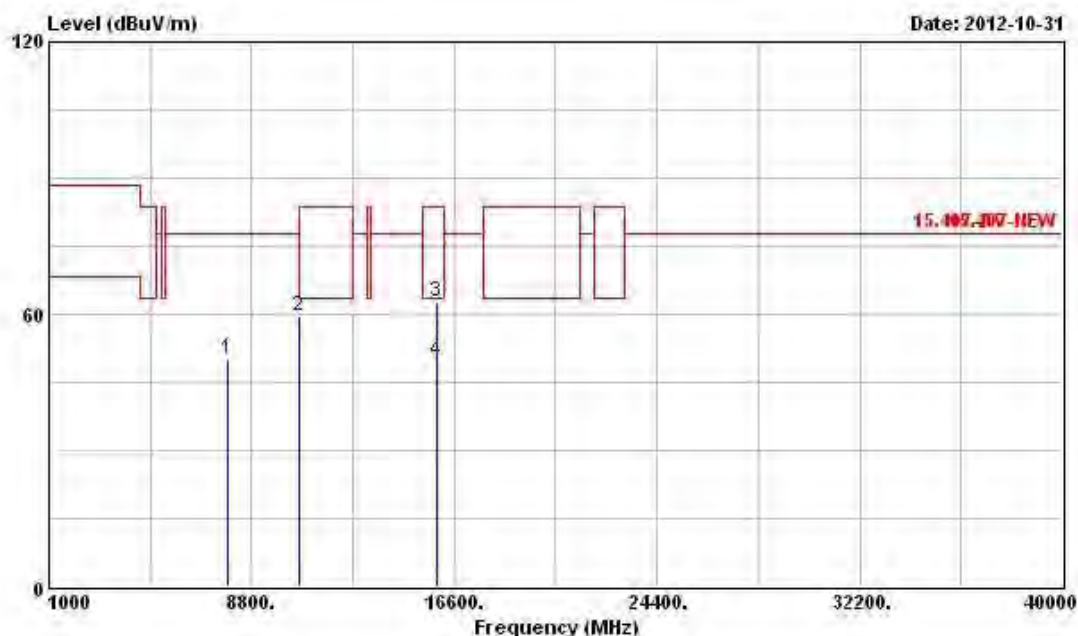
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F6
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	7891.000	50.15	-27.69	77.84	43.73	35.88	5.78	35.24	Peak	---	---
2	10640.000	59.48	-4.06	63.54	49.17	38.38	6.93	35.00	PK	---	---
3	15960.000	62.93	-20.61	83.54	48.92	40.99	8.47	35.45	Peak	---	---
4	15960.000	49.74	-13.80	63.54	35.73	40.99	8.47	35.45	Average	---	---

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

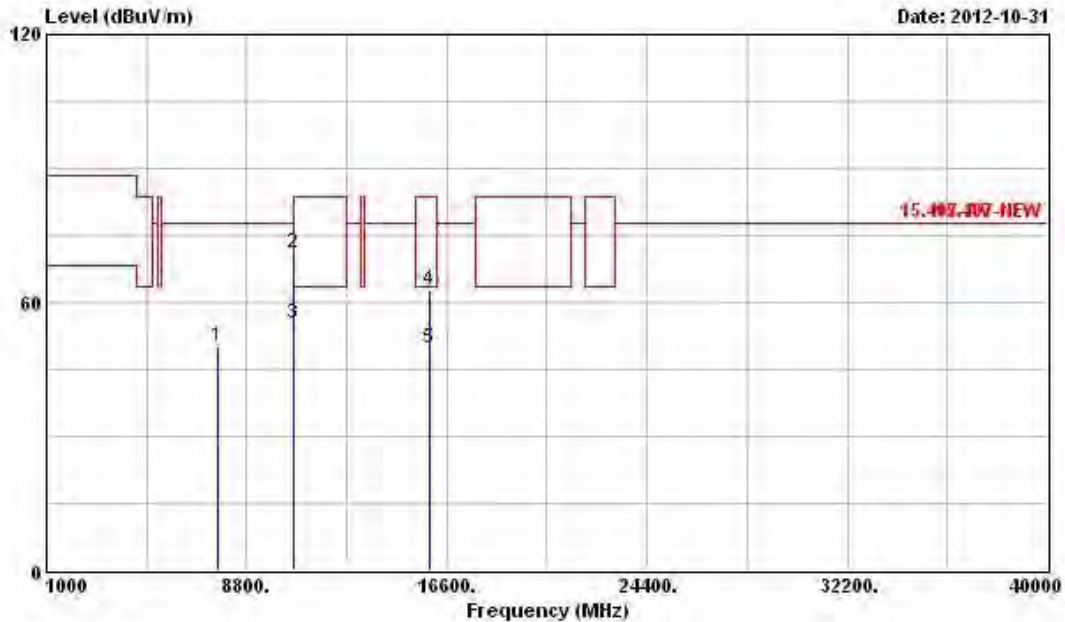
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F6
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	7666.000	50.04	-27.80	77.84	43.69	35.83	5.71	35.19	Peak	---	---
2	10640.000	70.97	-12.57	83.54	60.66	38.38	6.93	35.00	Peak	---	---
3	10640.000	55.26	-8.28	63.54	44.95	38.38	6.93	35.00	Average	---	---
4	15960.000	62.60	-20.94	83.54	48.59	40.99	8.47	35.45	Peak	---	---
5	15960.000	49.80	-13.74	63.54	35.79	40.99	8.47	35.45	Average	---	---

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

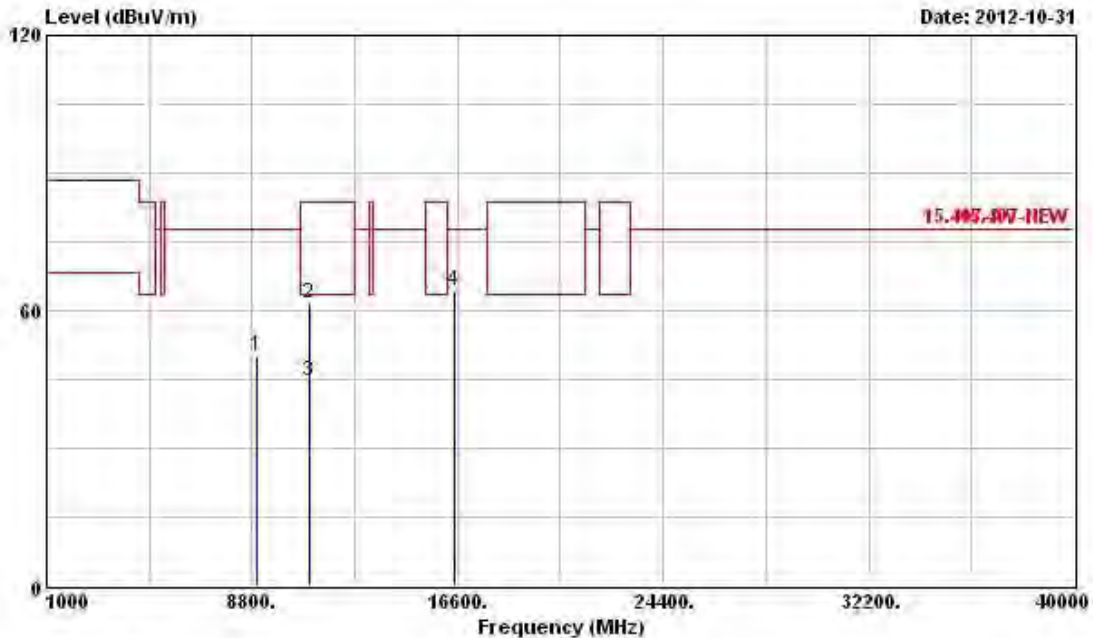
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F7
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	8990.000	50.07	-27.77	77.84	42.64	36.59	6.16	35.32	Peak	---	---
2	11000.000	61.54	-22.00	83.54	50.49	38.60	7.17	34.72	Peak	---	---
3	11000.000	44.68	-18.86	63.54	33.63	38.60	7.17	34.72	Average	---	---
4	16500.000	64.46	-13.38	77.84	49.21	42.00	8.24	34.99	Peak	---	---

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

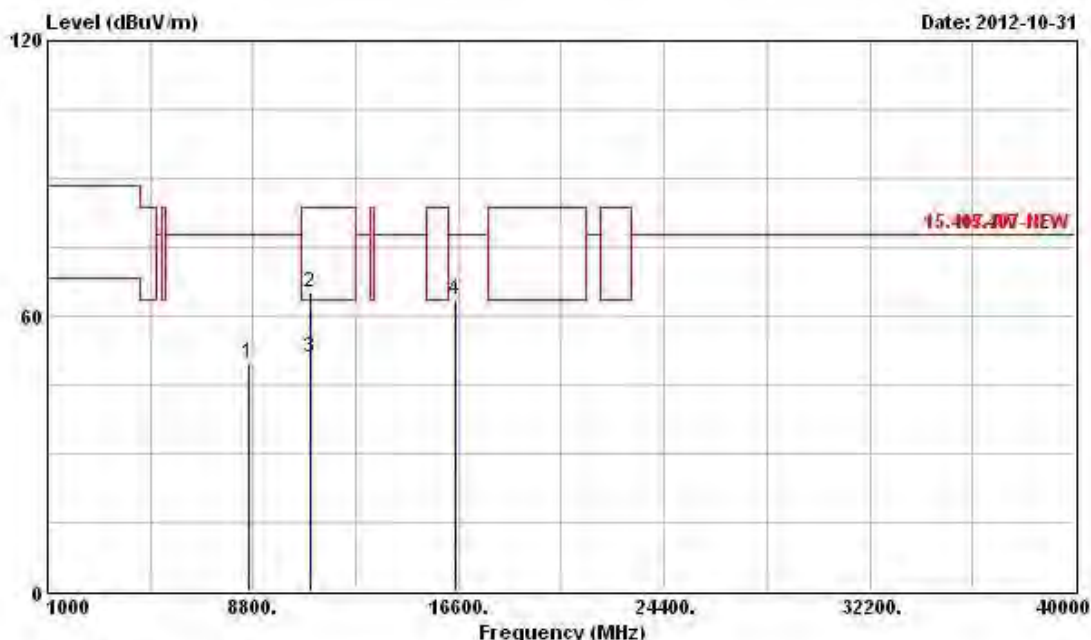
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F7
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	8620.000	49.81	-28.03	77.84	42.71	36.37	5.99	35.26	Peak	---	---
2	11000.000	64.94	-18.60	83.54	53.89	38.60	7.17	34.72	Peak	---	---
3	11000.000	50.96	-12.58	63.54	39.91	38.60	7.17	34.72	Average	---	---
4	16500.000	63.68	-14.16	77.84	48.43	42.00	8.24	34.99	Peak	---	---

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

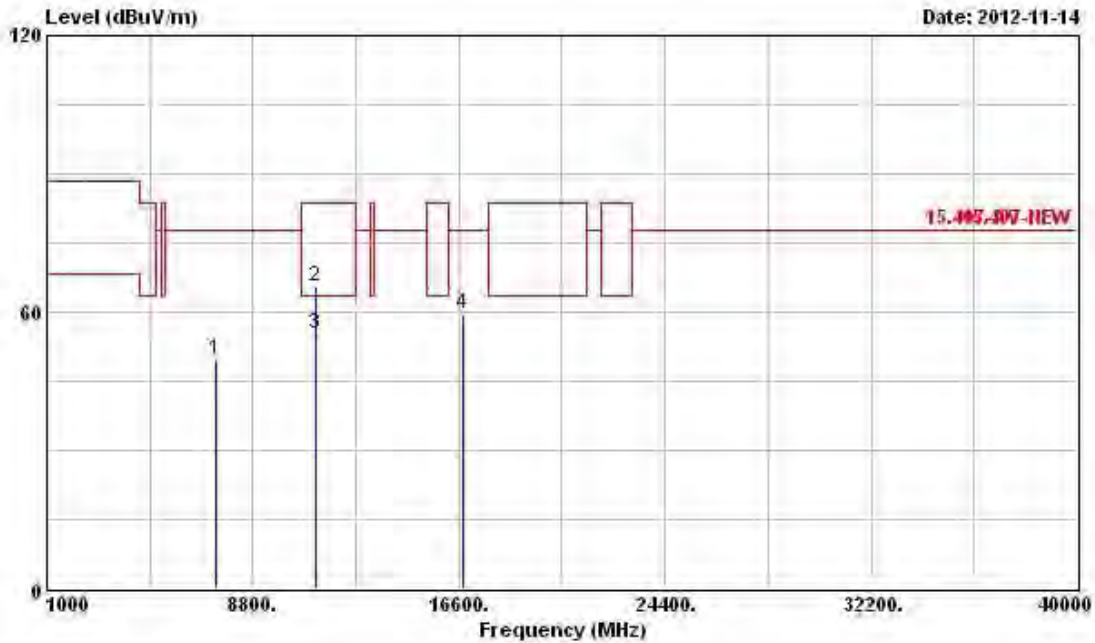
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F8
N _{TX}	3	Polarization	V

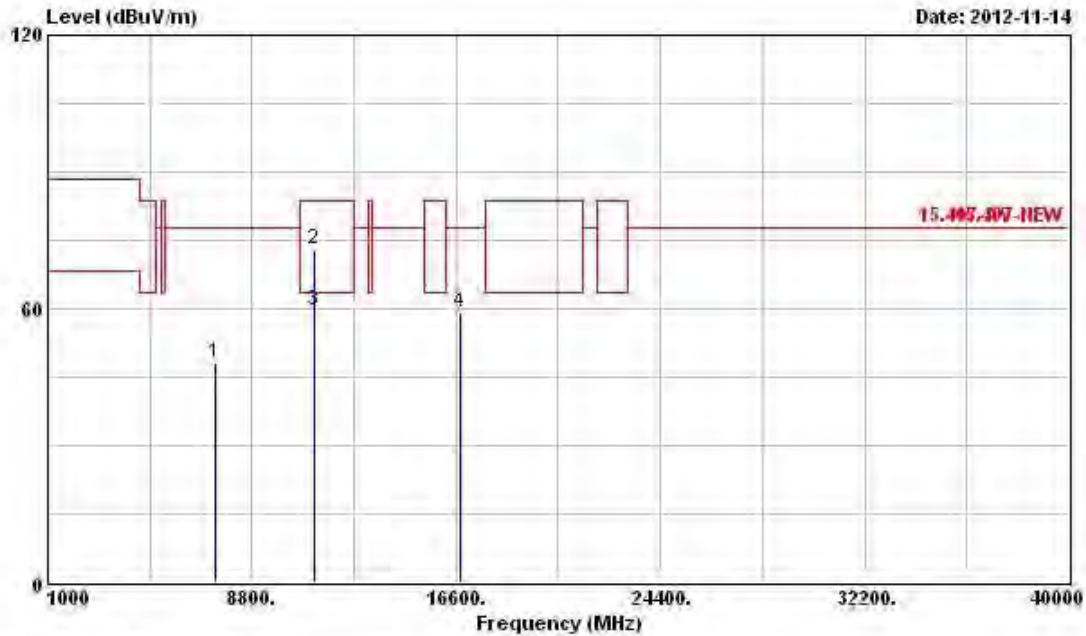


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7430.000	49.70	-28.14	77.84	43.37	35.81	5.65	35.13	Peak	---	---
2	11160.000	65.72	-17.82	83.54	54.78	38.70	6.96	34.72	Peak	---	---
3	11160.000	55.28	-8.26	63.54	44.34	38.70	6.96	34.72	Average	---	---
4	16740.000	59.65	-18.19	77.84	43.83	41.86	8.47	34.51	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	11a	Test Freq. (FX)	F8
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	7380.000	48.11	-29.73	77.84	41.76	35.82	5.65	35.12	Peak	---	---
2	11160.000	73.03	-10.51	83.54	62.09	38.70	6.96	34.72	Peak	---	---
3	11160.000	59.45	-4.09	63.54	48.51	38.70	6.96	34.72	Average	---	---
4	16740.000	59.17	-18.67	77.84	43.35	41.86	8.47	34.51	Peak	---	---

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

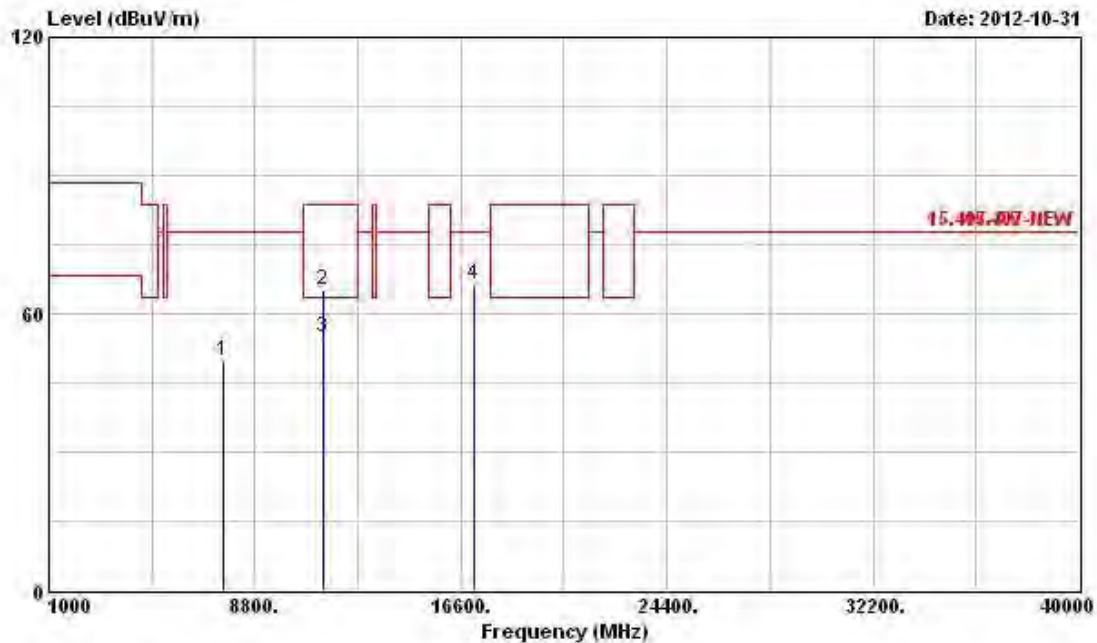
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	11a	Test Freq. (FX)	F9
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	7580.000	49.70	-28.14	77.84	43.37	35.82	5.68	35.17	Peak	---	---
2	11400.000	65.10	-18.44	83.54	54.27	38.84	6.71	34.72	Peak	---	---
3	11400.000	54.76	-8.78	63.54	43.93	38.84	6.71	34.72	Average	---	---
4	17100.000	66.22	-11.62	77.84	49.93	41.66	8.61	33.98	Peak	---	---

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

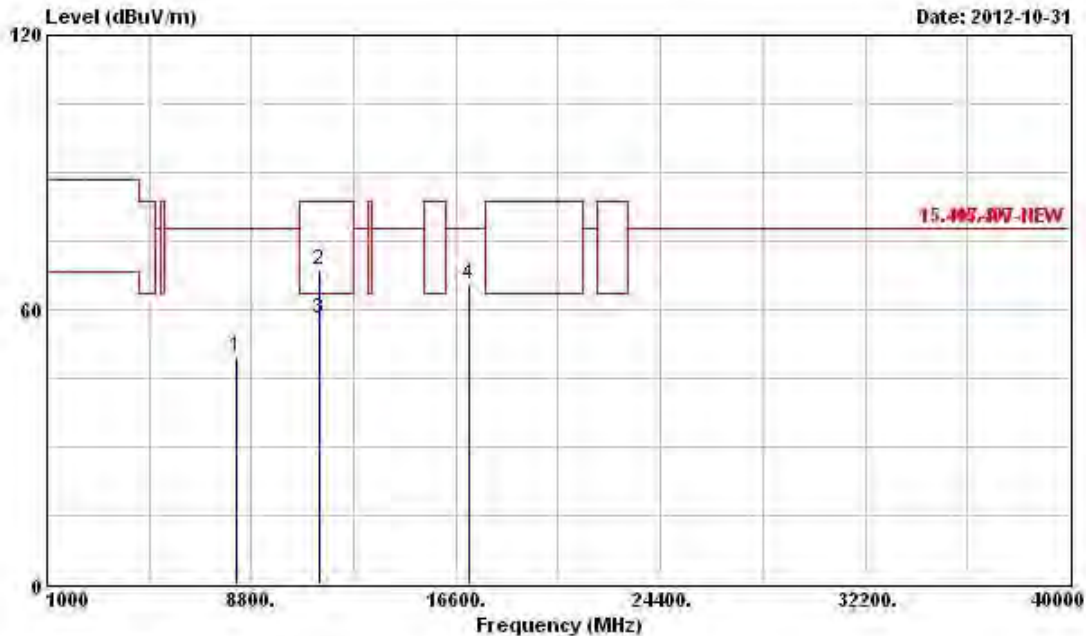
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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. (FX)	F9
N _{TX}	3	Polarization	H



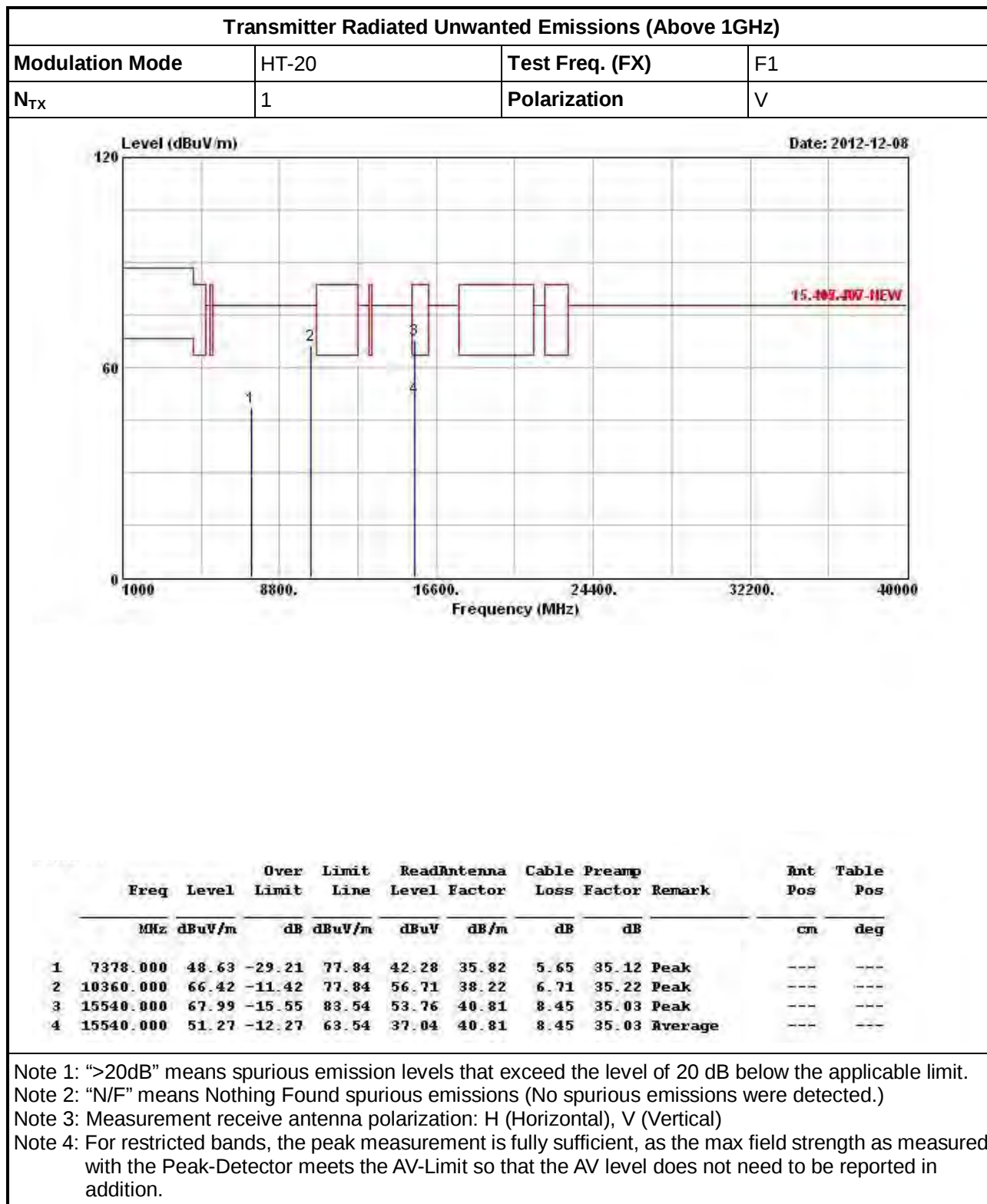
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8210.000	49.80	-28.04	77.84	43.13	36.07	5.86	35.26	Peak	---	---
2	11400.000	68.88	-14.66	83.54	58.05	38.84	6.71	34.72	Peak	---	---
3	11400.000	58.12	-5.42	63.54	47.29	38.84	6.71	34.72	Average	---	---
4	17100.000	65.63	-12.21	77.84	49.34	41.66	8.61	33.98	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.)

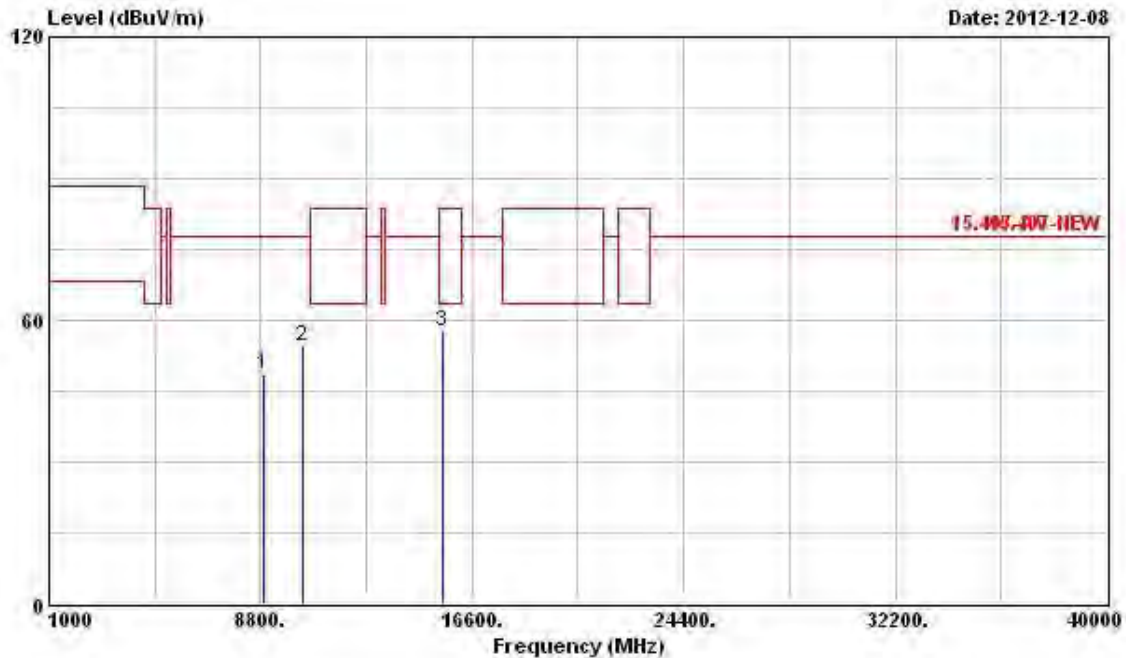
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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 HT-20


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT-20	Test Freq. (FX)	F1
N_{TX}	1	Polarization	H

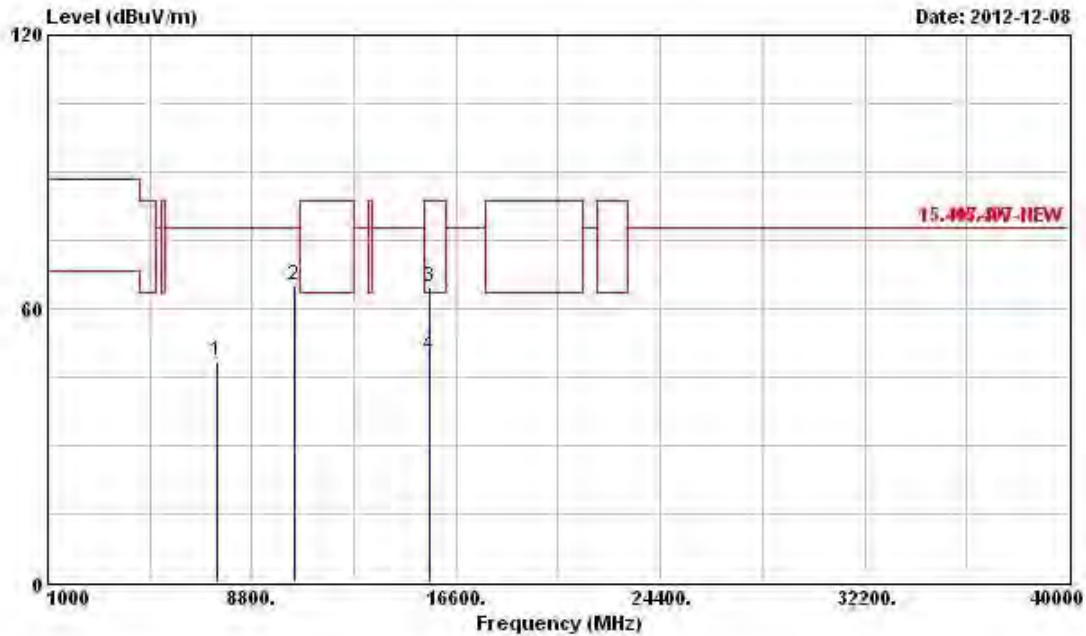


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8899.000	48.53	-29.31	77.84	41.16	36.54	6.13	35.30	Peak	---	---
2	10360.000	54.39	-23.45	77.84	44.68	38.22	6.71	35.22	Peak	---	---
3	15540.000	57.67	-5.87	63.54	43.44	40.81	8.45	35.03	PK	---	---

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	HT-20	Test Freq. (FX)	F2
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	7459.000	48.50	-29.34	77.84	42.17	35.81	5.66	35.14	Peak	---	---
2	10400.000	65.04	-12.80	77.84	55.23	38.24	6.75	35.18	Peak	---	---
3	15600.000	64.72	-18.82	83.54	50.53	40.84	8.45	35.10	Peak	---	---
4	15600.000	49.70	-13.84	63.54	35.51	40.84	8.45	35.10	Average	---	---

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

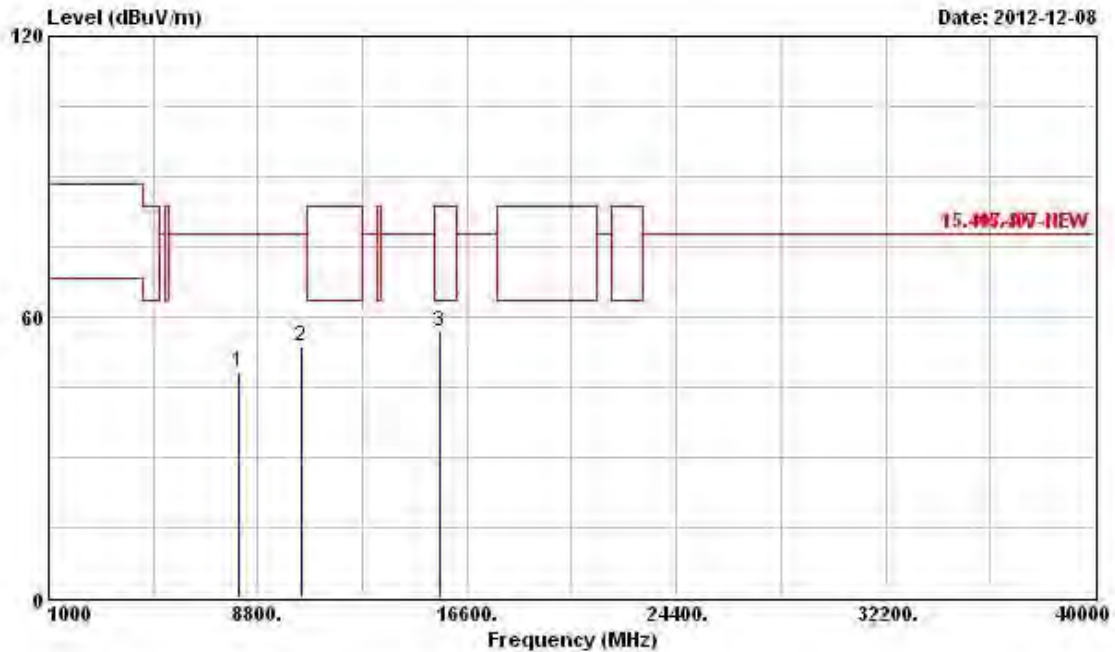
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F2
N_{TX}	1	Polarization	H

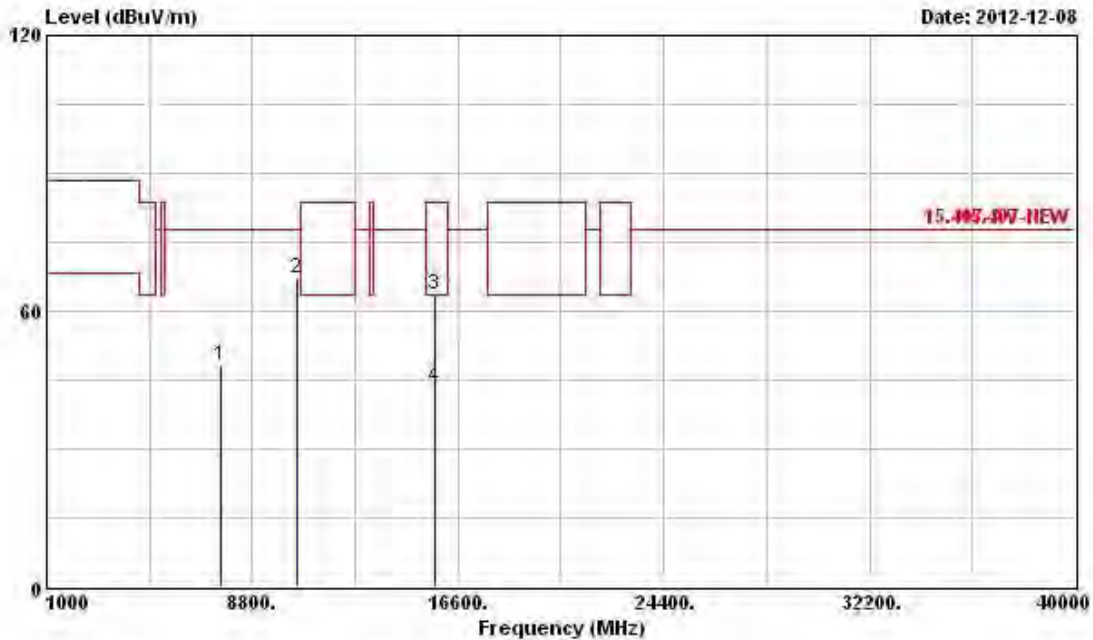


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8071.000	48.23	-29.61	77.84	41.72	35.96	5.82	35.27	Peak	---	---
2	10400.000	53.72	-24.12	77.84	43.91	38.24	6.75	35.18	Peak	---	---
3	15600.000	56.96	-6.58	63.54	42.77	40.84	8.45	35.10	PK	---	---

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	HT-20	Test Freq. (FX)	F3
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	7594.000	48.25	-29.59	77.84	41.92	35.82	5.68	35.17	Peak	---	---
2	10480.000	67.11	-10.73	77.84	57.12	38.29	6.82	35.12	Peak	---	---
3	15720.000	63.49	-20.05	83.54	49.34	40.89	8.46	35.20	Peak	---	---
4	15720.000	43.37	-20.17	63.54	29.22	40.89	8.46	35.20	Average	---	---

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

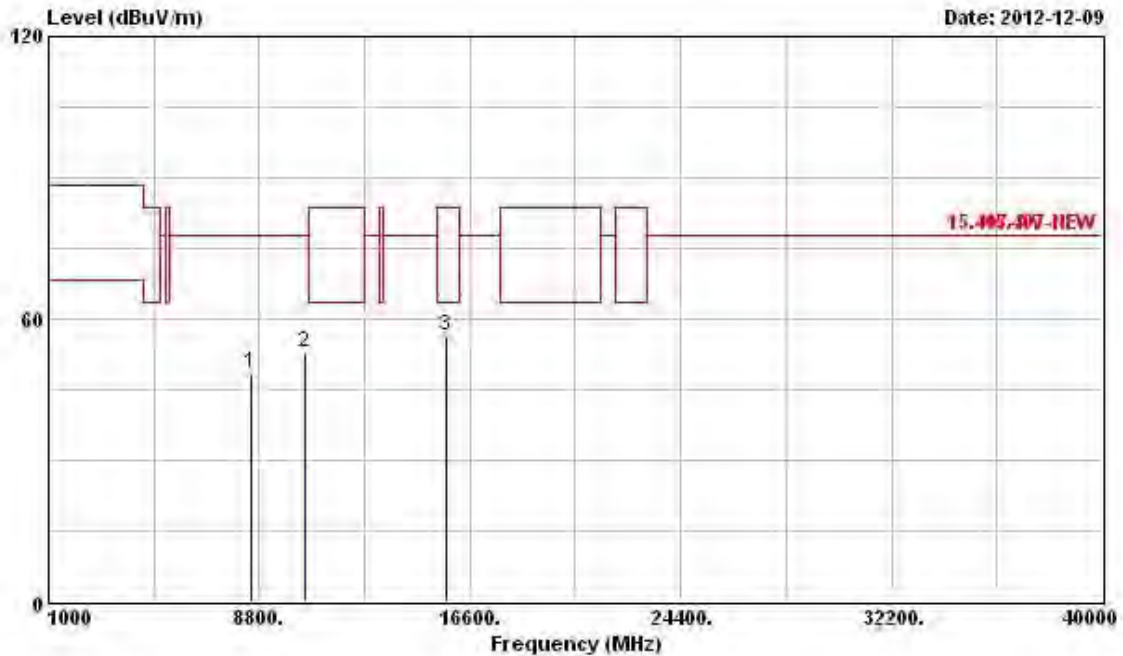
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F3
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	8494.000	48.54	-29.30	77.84	41.54	36.30	5.94	35.24	Peak	---	---
2	10480.000	53.02	-24.82	77.84	43.03	38.29	6.82	35.12	Peak	---	---
3	@15720.000	56.53	-7.01	63.54	42.38	40.89	8.46	35.20	PK	---	---

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

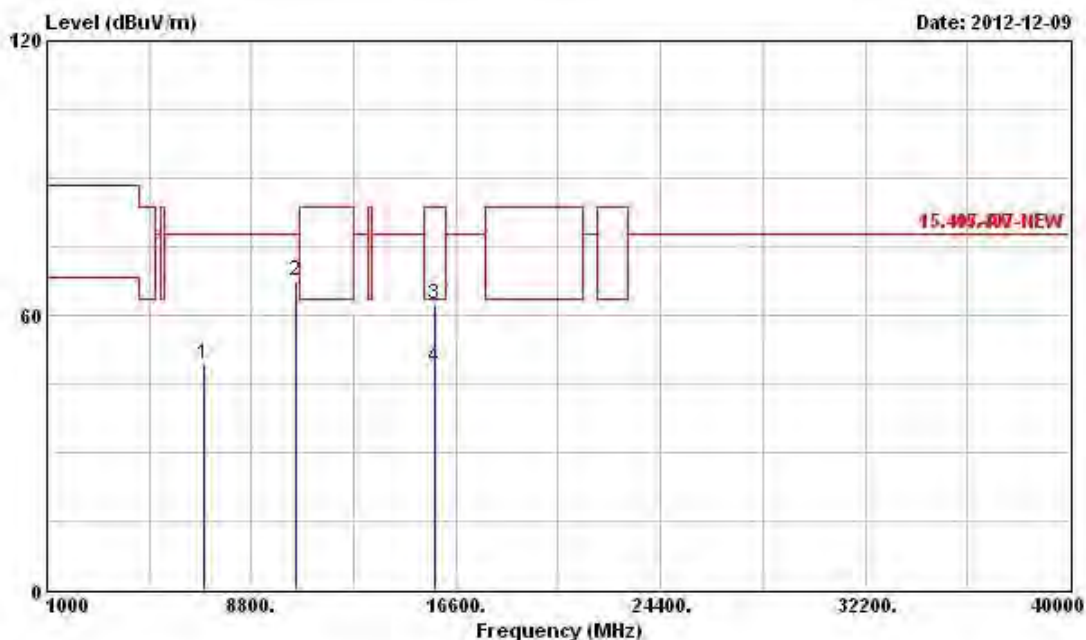
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F4
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	7000.000	49.35	-28.49	77.84	42.87	35.90	5.60	35.02	Peak	---
2	10520.000	67.32	-10.52	77.84	57.26	38.31	6.85	35.10	Peak	---
3	15780.000	62.33	-21.21	83.54	48.24	40.91	8.46	35.28	Peak	---
4	15780.000	48.44	-15.10	63.54	34.35	40.91	8.46	35.28	Average	---

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

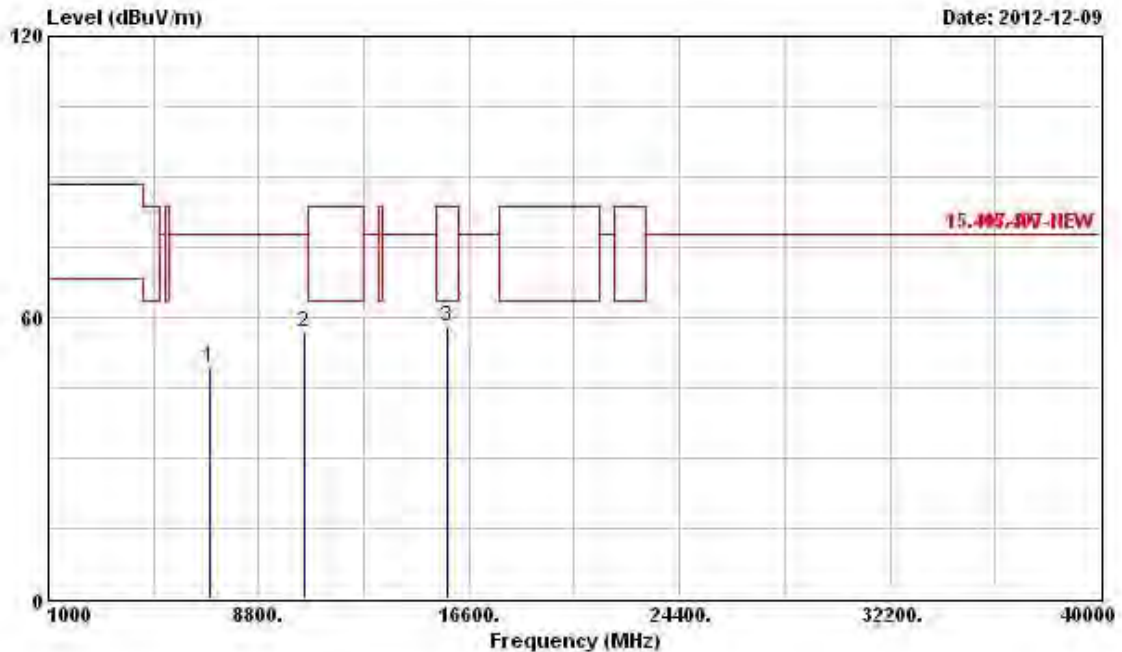
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F4
N_{TX}	1	Polarization	H

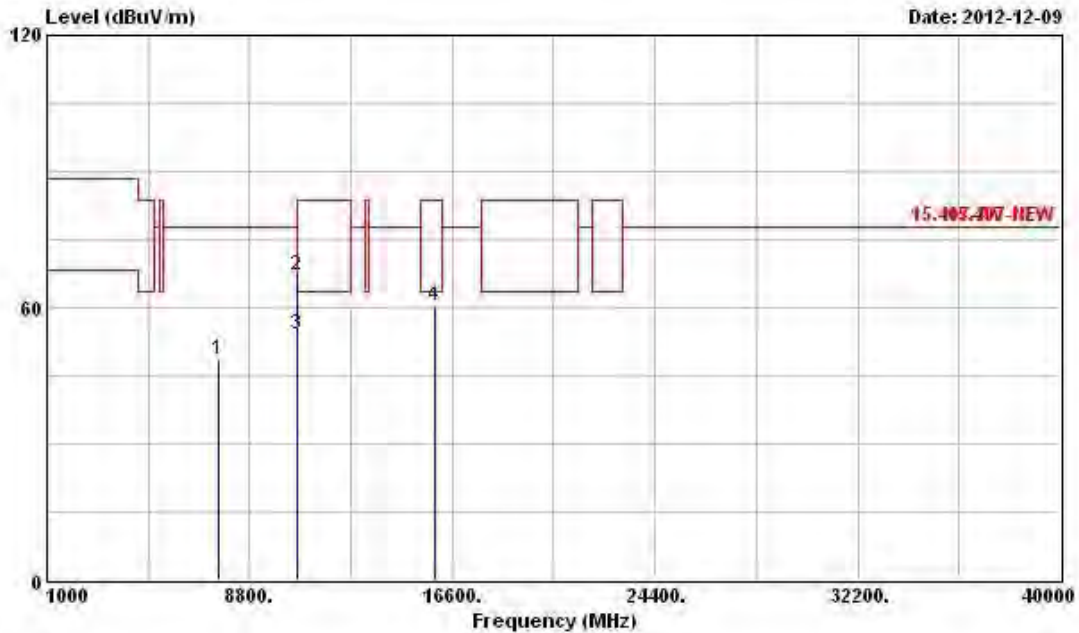


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7000.000	49.18	-28.66	77.84	42.70	35.90	5.60	35.02	Peak	---	---
2	10520.000	56.65	-21.19	77.84	46.59	38.31	6.85	35.10	Peak	---	---
3	15780.000	58.13	-5.41	63.54	44.04	40.91	8.46	35.28	PK	---	---

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	HT-20	Test Freq. (FX)	F5
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
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7580.000	48.42	-29.42	77.84	42.09	35.82	5.68	35.17	Peak	---
2	10600.100	66.96	-16.58	83.54	56.74	38.36	6.90	35.04	Peak	---
3	10600.100	53.95	-9.59	63.54	43.73	38.36	6.90	35.04	Average	---
4	15900.000	60.37	-3.17	63.54	46.32	40.96	8.47	35.38	PK	---

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

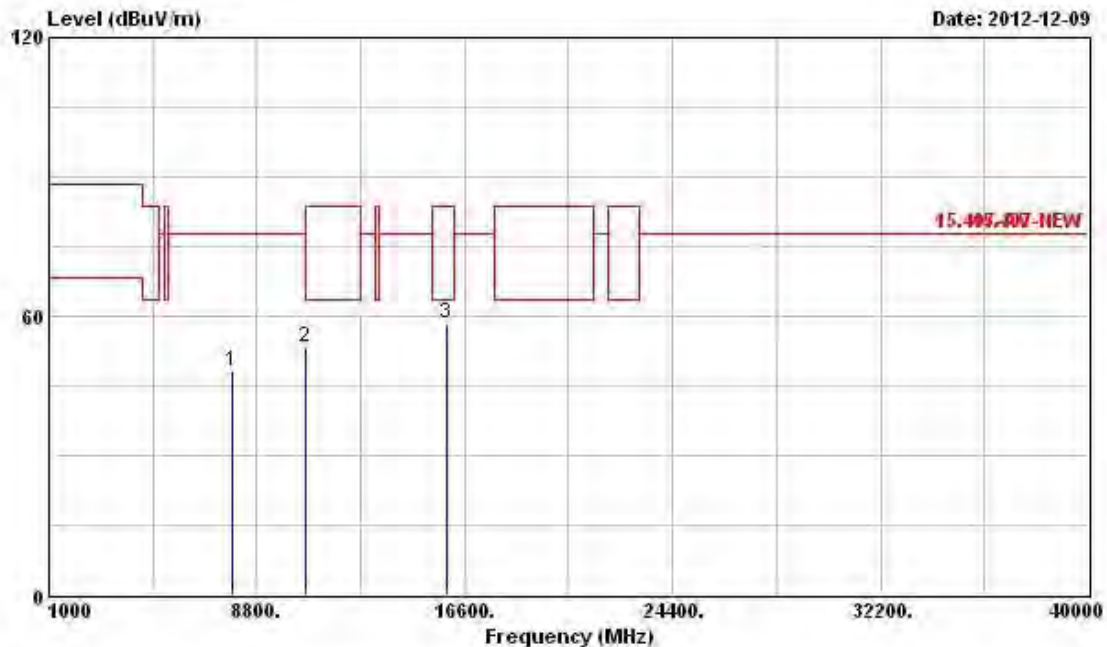
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F5
N _{TX}	1	Polarization	H

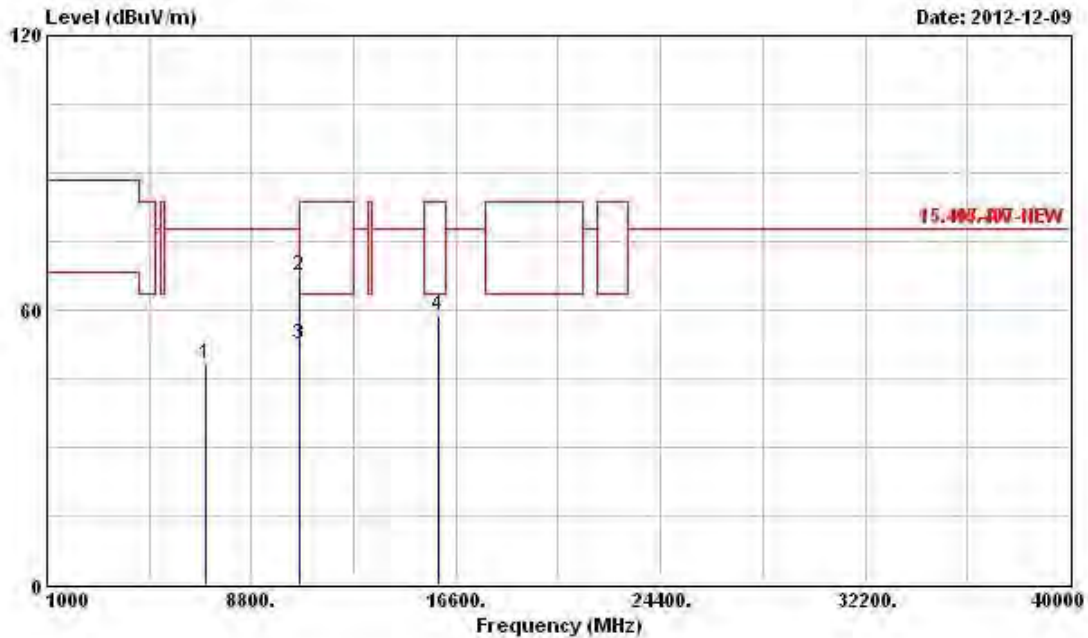


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7860.000	48.17	-29.67	77.84	41.76	35.87	5.77	35.23	Peak	---	---
2	10600.100	53.36	-10.18	63.54	43.14	38.36	6.90	35.04	PK	---	---
3	15900.000	58.47	-5.07	63.54	44.42	40.96	8.47	35.38	PK	---	---

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	HT-20	Test Freq. (FX)	F6
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	7070.000	48.14	-29.70	77.84	41.68	35.89	5.61	35.04	Peak	---	---
2	10640.000	67.39	-16.15	83.54	57.08	38.38	6.93	35.00	Peak	---	---
3	10640.000	52.50	-11.04	63.54	42.19	38.38	6.93	35.00	Average	---	---
4	15960.000	58.68	-4.86	63.54	44.67	40.99	8.47	35.45	PK	---	---

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

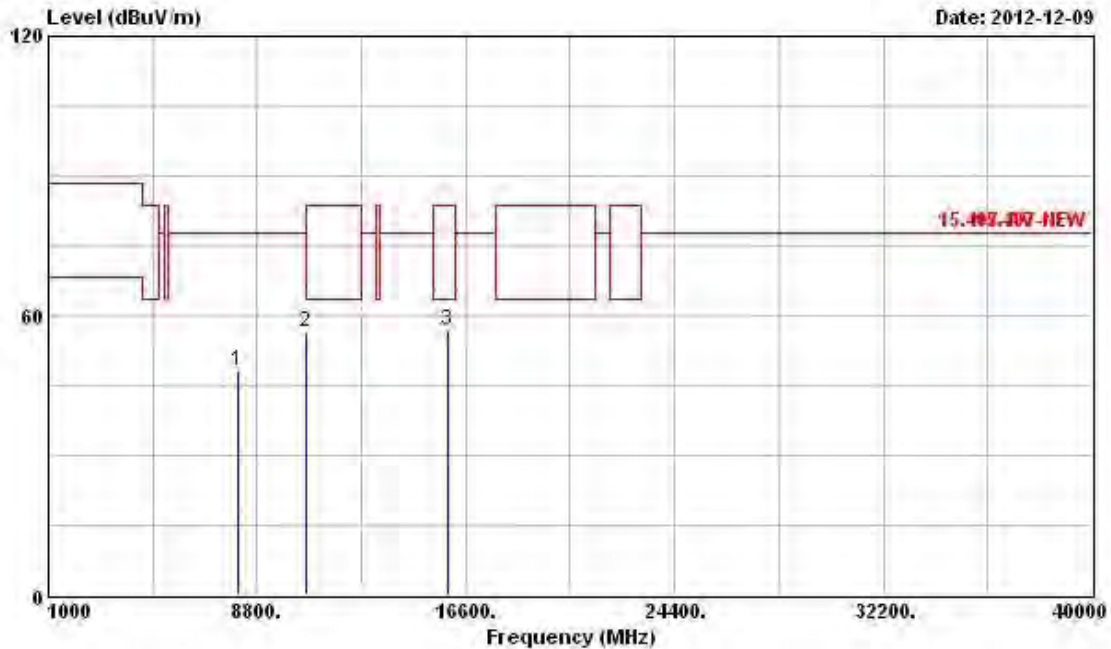
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F6
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	8100.000	48.28	-29.56	77.84	41.74	35.98	5.83	35.27	Peak	---	---
2	10640.000	56.53	-7.01	63.54	46.22	38.38	6.93	35.00	PK	---	---
3	15960.000	56.82	-6.72	63.54	42.81	40.99	8.47	35.45	PK	---	---

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

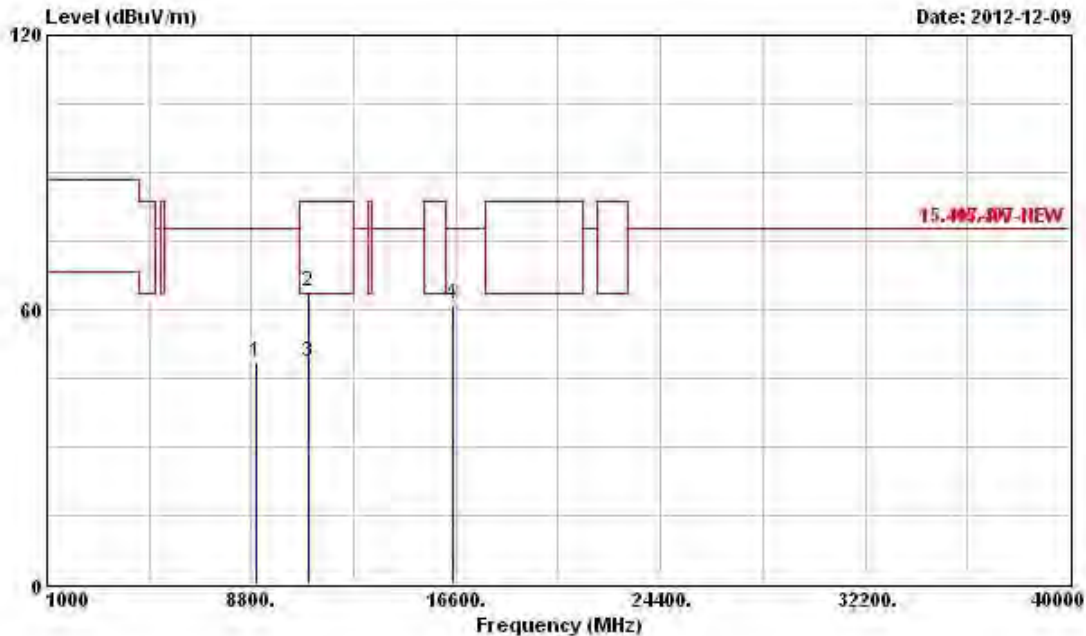
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F7
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 8980.000	48.58	-29.26	77.84	41.16	36.58	6.16	35.32	Peak	---	---
2 11000.000	63.88	-19.66	83.54	52.83	38.60	7.17	34.72	Peak	---	---
3 11000.000	48.75	-14.79	63.54	37.70	38.60	7.17	34.72	Average	---	---
4 16500.000	61.25	-16.59	77.84	46.00	42.00	8.24	34.99	Peak	---	---

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

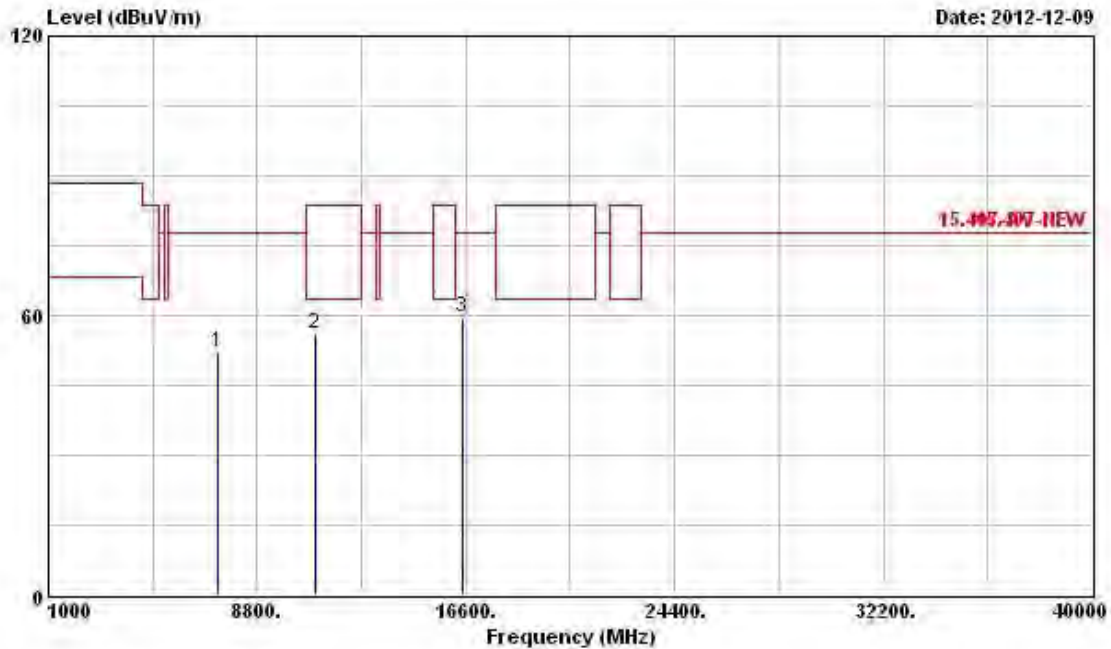
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F7
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	7310.000	52.15	-25.69	77.84	45.77	35.84	5.64	35.10	Peak	---	---
2	11000.000	55.97	-27.57	83.54	44.92	38.60	7.17	34.72	PK	---	---
3	16500.000	59.55	-18.29	77.84	44.30	42.00	8.24	34.99	Peak	---	---

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

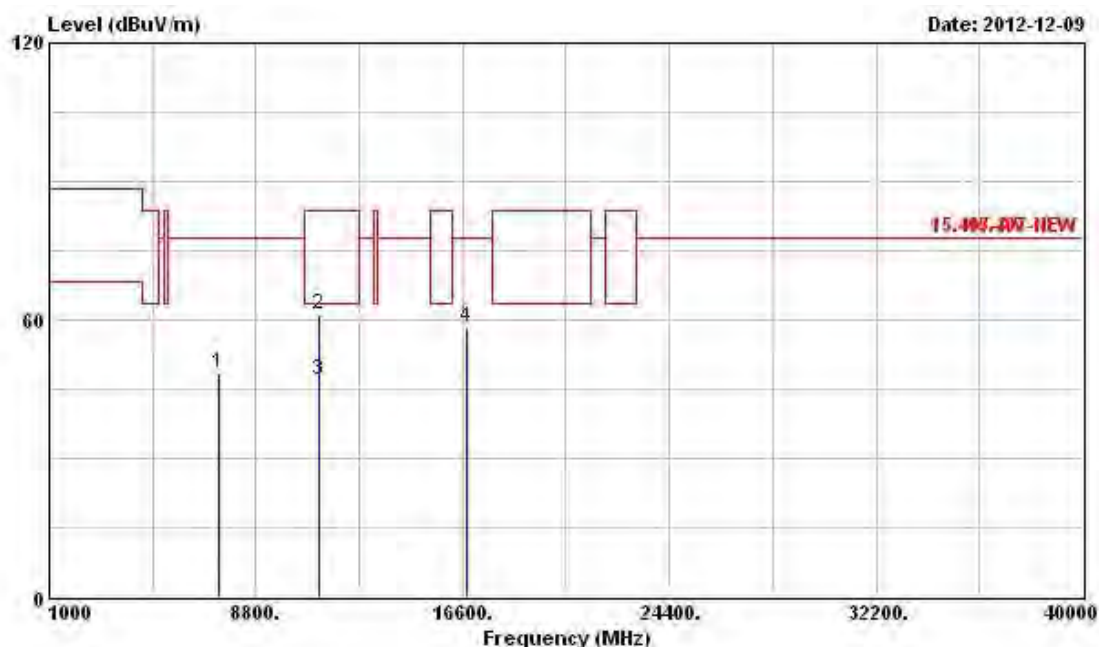
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F8
N _{TX}	1	Polarization	V

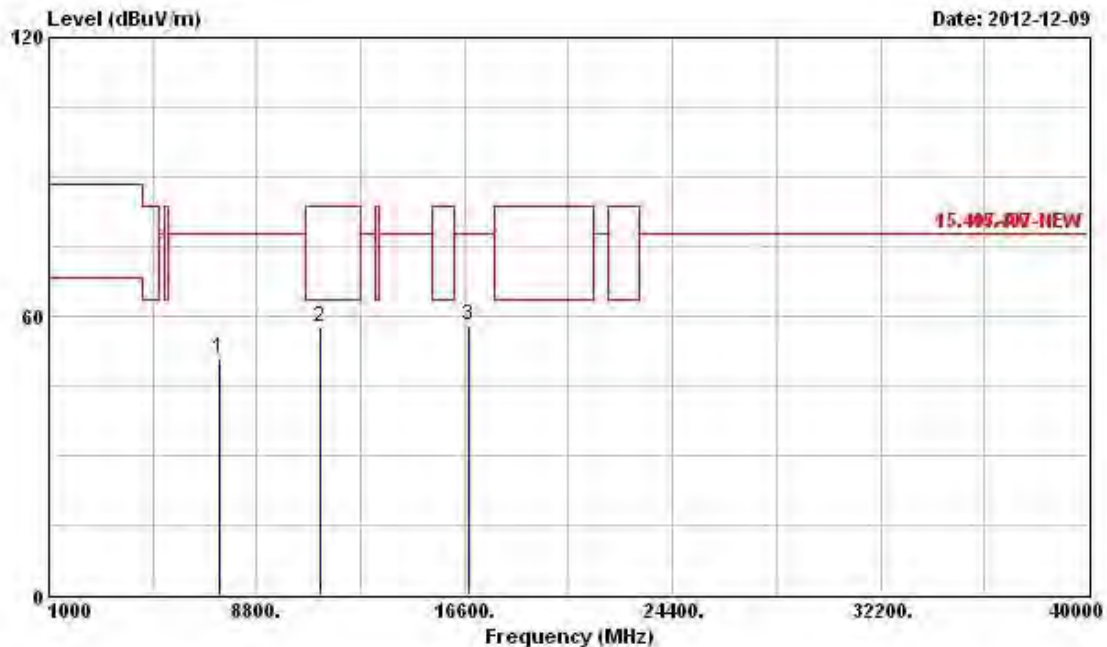


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7429.000	48.50	-29.34	77.84	42.17	35.81	5.65	35.13	Peak	---
2	11160.000	61.12	-22.42	83.54	50.18	38.70	6.96	34.72	Peak	---
3	11160.000	46.92	-16.62	63.54	35.98	38.70	6.96	34.72	Average	---
4	16740.000	58.28	-19.56	77.84	42.46	41.86	8.47	34.51	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	HT-20	Test Freq. (FX)	F8
N _{TX}	1	Polarization	H

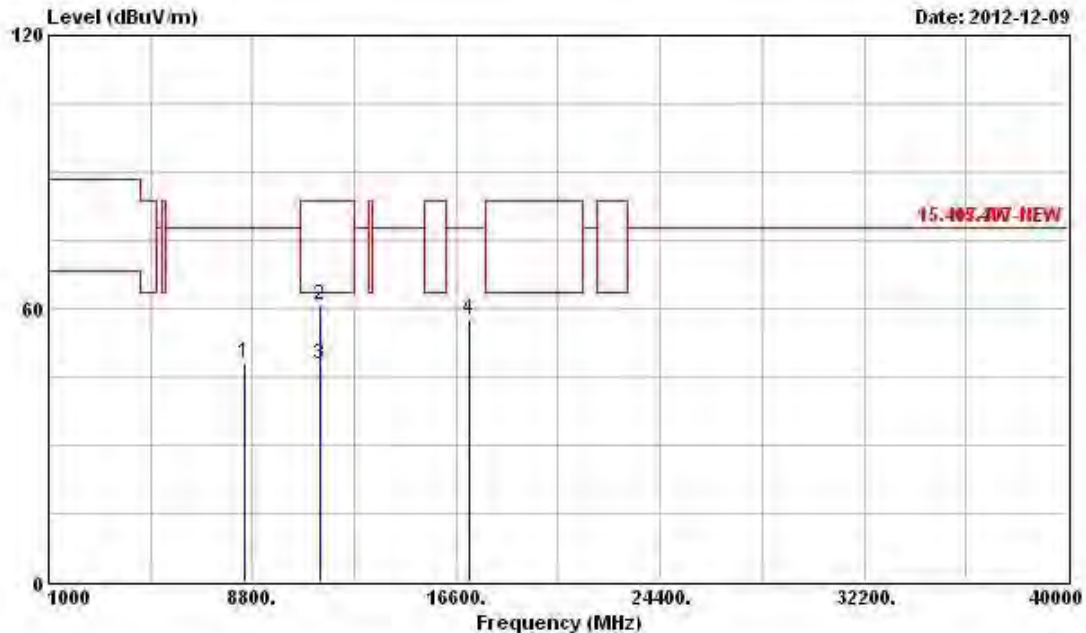


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7429.000	51.06	-26.78	77.84	44.73	35.81	5.65	35.13	Peak	---	---
2	11160.000	57.63	-5.91	63.54	46.69	38.70	6.96	34.72	PK	---	---
3	16740.000	57.99	-19.85	77.84	42.17	41.86	8.47	34.51	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	HT-20	Test Freq. (FX)	F9
N _{TX}	1	Polarization	V

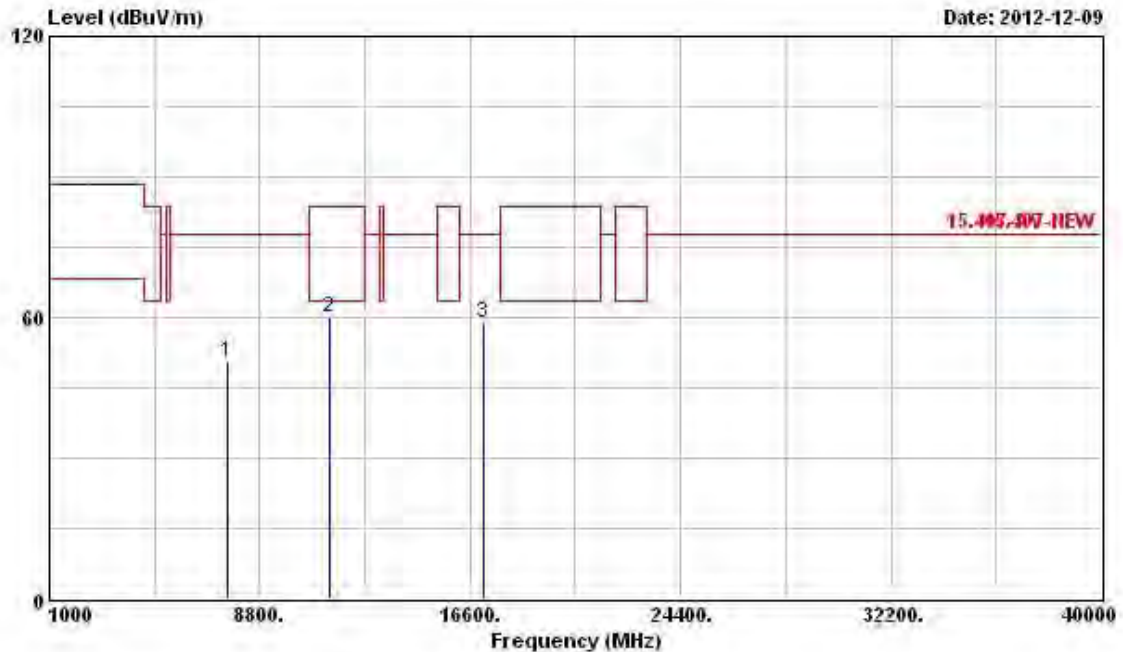


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8529.000	48.06	-29.78	77.84	41.02	36.32	5.96	35.24	Peak	---	---
2	11400.000	60.69	-22.85	83.54	49.86	38.84	6.71	34.72	Peak	---	---
3	11400.000	47.92	-15.62	63.54	37.09	38.84	6.71	34.72	Average	---	---
4	17100.000	57.49	-20.35	77.84	41.20	41.66	8.61	33.98	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	HT-20	Test Freq. (FX)	F9
N_{TX}	1	Polarization	H

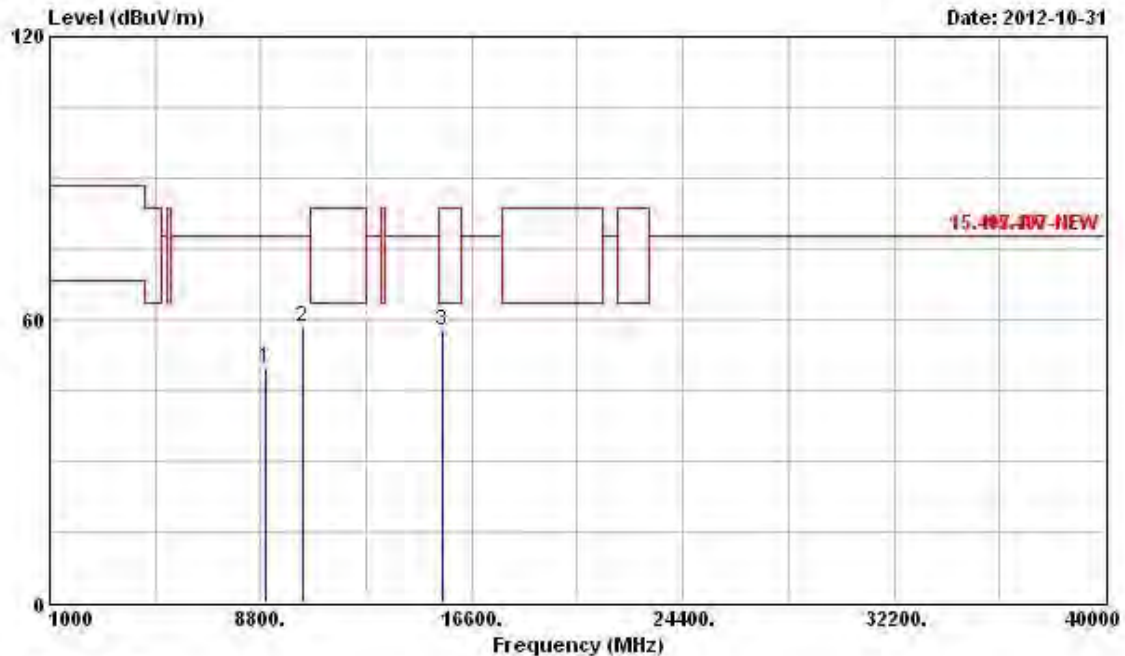


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7594.000	50.63	-27.21	77.84	44.30	35.82	5.68	35.17	Peak	---	---
2	11400.000	59.95	-3.59	63.54	49.12	38.84	6.71	34.72	PK	---	---
3	17100.000	58.67	-19.17	77.84	42.38	41.66	8.61	33.98	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	HT-20	Test Freq. (FX)	F1
N _{TX}	3	Polarization	V

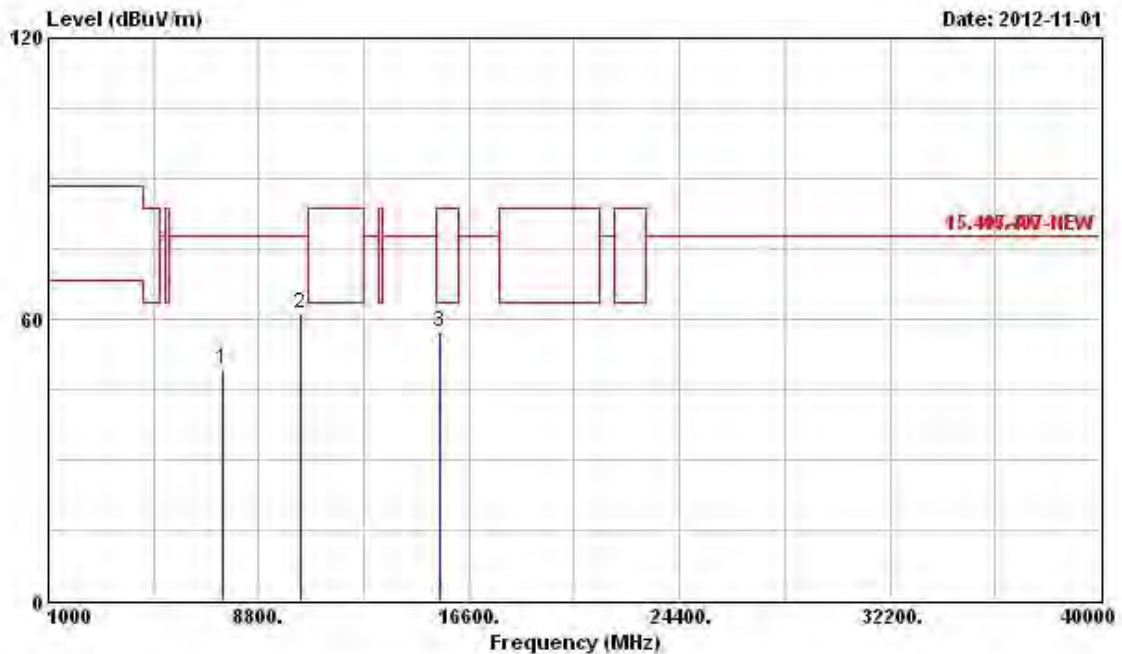


Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
8974.000	49.61	-28.23	77.84	42.21	36.58	6.14	35.32	Peak	---	---
10360.000	58.57	-19.27	77.84	48.86	38.22	6.71	35.22	Peak	---	---
15540.000	57.48	-6.06	63.54	43.25	40.81	8.45	35.03	PK	---	---

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	HT-20	Test Freq. (FX)	F1
N _{TX}	3	Polarization	H

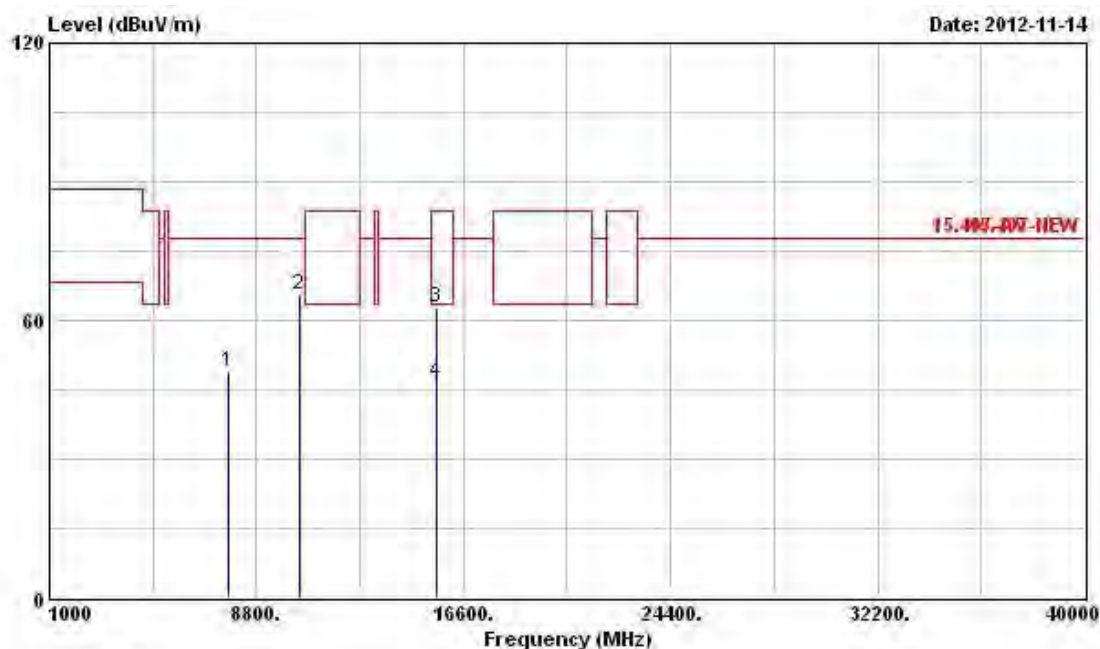


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7484.000	49.25	-28.59	77.84	42.93	35.80	5.66	35.14	Peak	---	---
2	10360.000	61.24	-16.60	77.84	51.53	38.22	6.71	35.22	Peak	---	---
3	15540.000	57.27	-6.27	63.54	43.04	40.81	8.45	35.03	PK	---	---

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	HT-20	Test Freq. (FX)	F2
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	7711.000	48.84	-29.00	77.84	42.48	35.84	5.72	35.20	Peak	---	---
2	10400.000	65.54	-12.30	77.84	55.73	38.24	6.75	35.18	Peak	---	---
3	15600.000	62.89	-20.65	83.54	48.70	40.84	8.45	35.10	Peak	---	---
4	15600.000	46.47	-17.07	63.54	32.28	40.84	8.45	35.10	Average	---	---

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

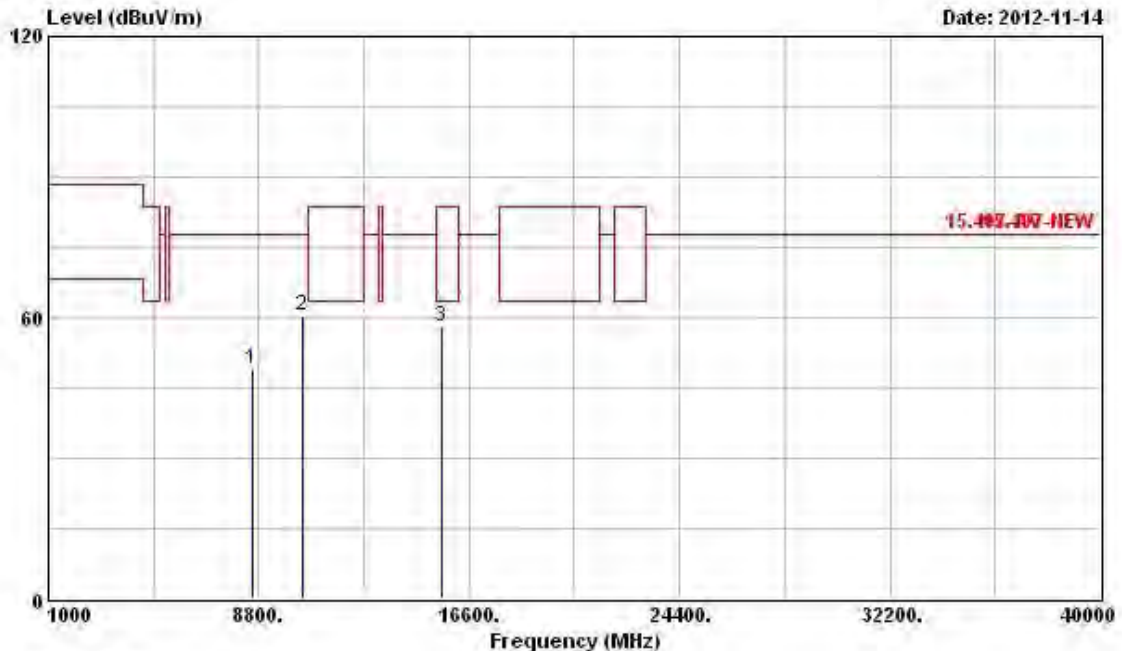
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F2
N _{TX}	3	Polarization	H

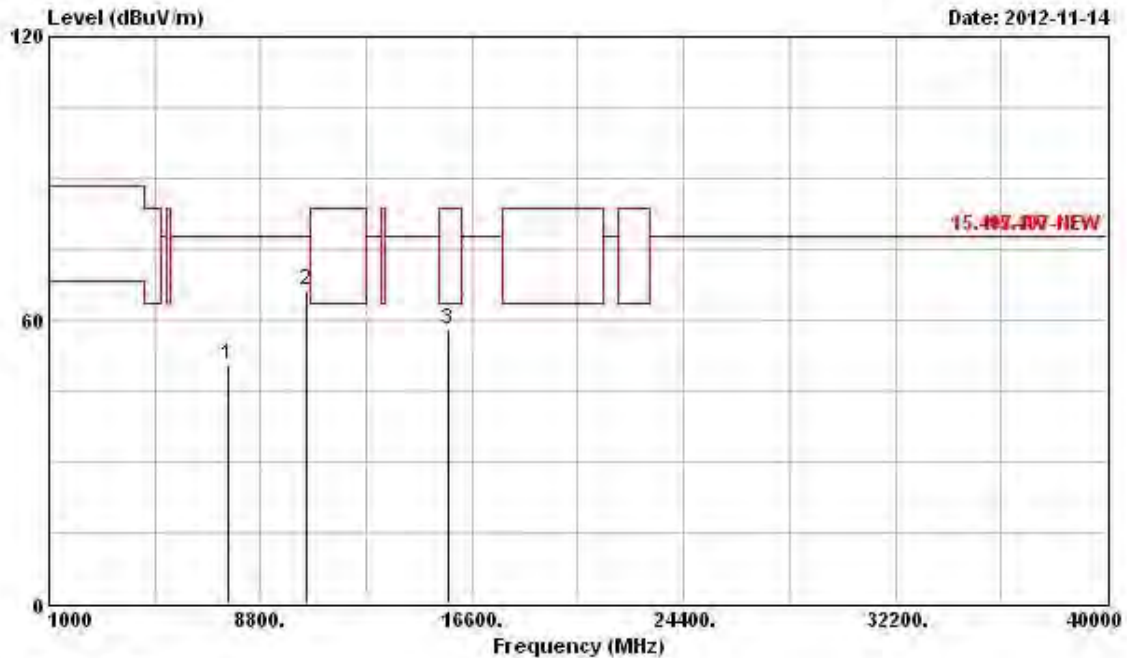


Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 8575.000	49.02	-28.82	77.84	41.95	36.35	5.97	35.25	Peak	---	---
2 10400.000	60.30	-17.54	77.84	50.49	38.24	6.75	35.18	Peak	---	---
3 @15600.000	57.86	-5.68	63.54	43.67	40.84	8.45	35.10	PK	---	---

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	HT-20	Test Freq. (FX)	F3
N _{TX}	3	Polarization	V

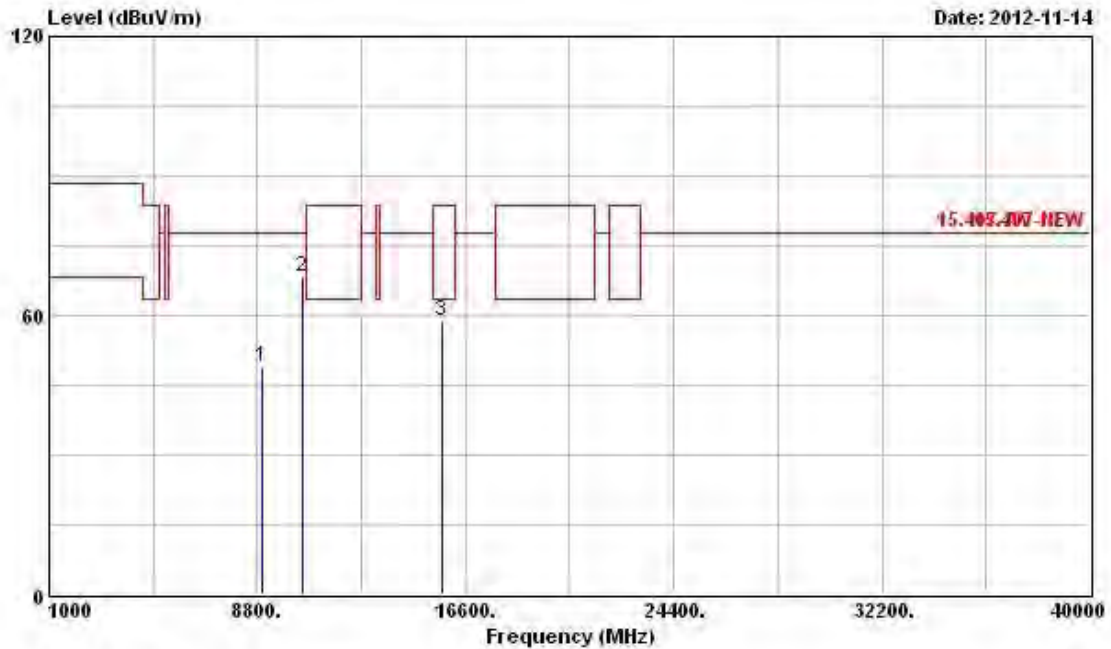


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7630.000	50.47	-27.37	77.84	44.13	35.83	5.69	35.18	Peak	---	---
2	10480.000	66.25	-11.59	77.84	56.26	38.29	6.82	35.12	Peak	---	---
3	15720.000	58.20	-5.34	63.54	44.05	40.89	8.46	35.20	PK	---	---

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	HT-20	Test Freq. (FX)	F3
N _{TX}	3	Polarization	H

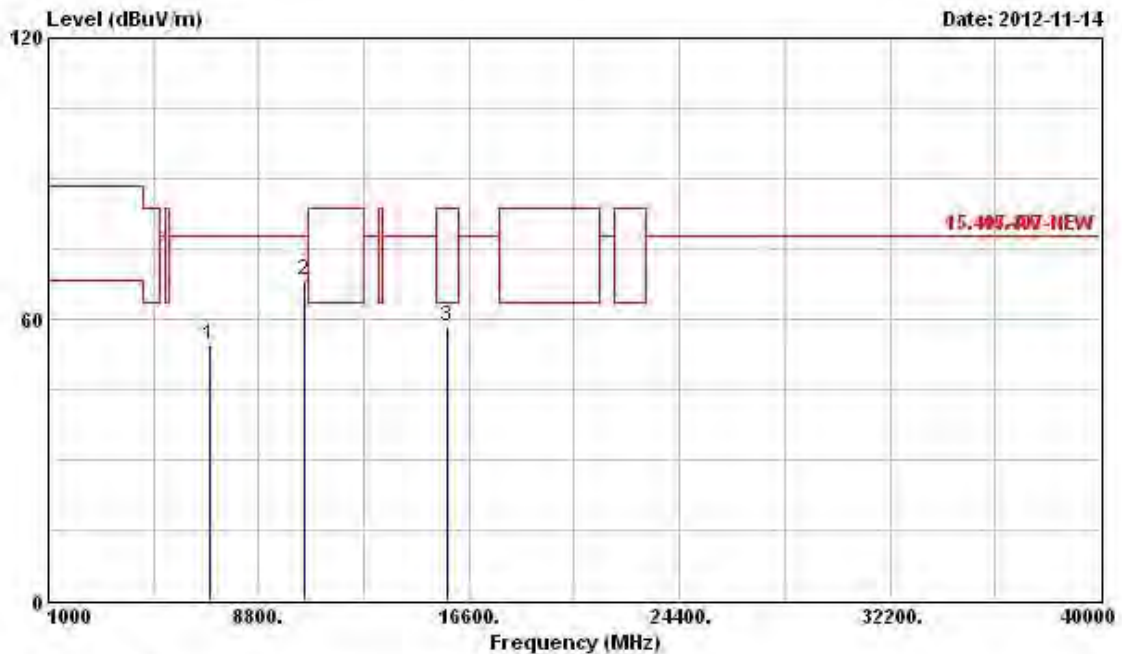


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8962.000	48.84	-29.00	77.84	41.44	36.57	6.14	35.31	Peak	---	---
2	10480.000	68.48	-9.36	77.84	58.49	38.29	6.82	35.12	Peak	---	---
3	@15720.000	58.79	-4.75	63.54	44.64	40.89	8.46	35.20	PK	---	---

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	HT-20	Test Freq. (FX)	F4
N_{TX}	3	Polarization	V

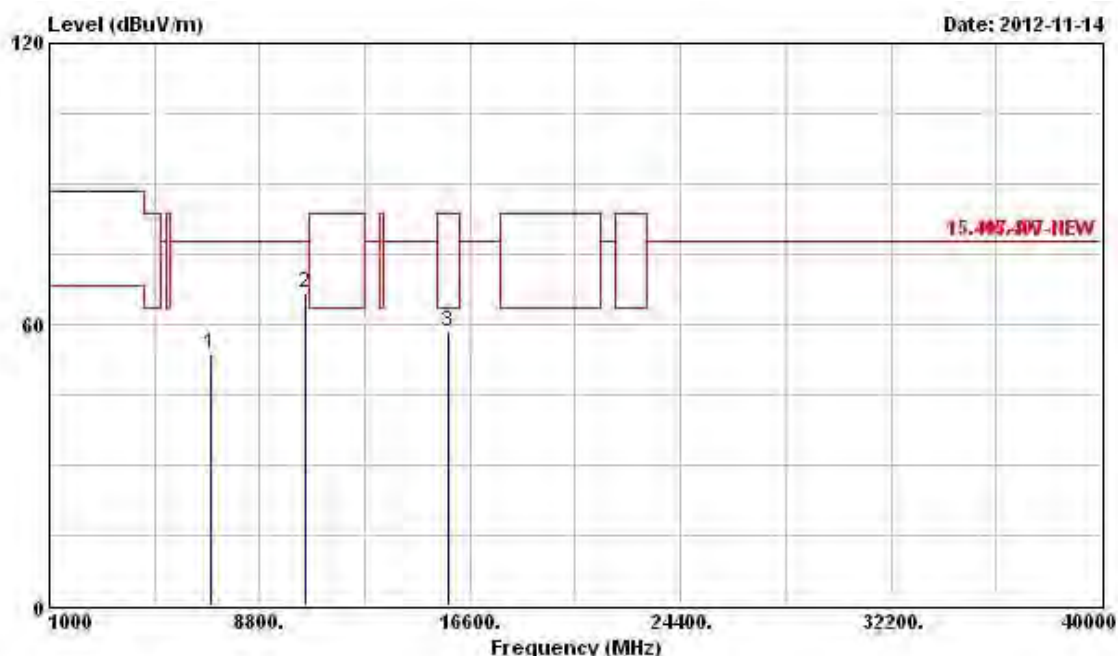


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7000.000	54.52	-23.32	77.84	48.04	35.90	5.60	35.02	Peak	---	---
2	10520.000	68.10	-9.74	77.84	58.04	38.31	6.85	35.10	Peak	---	---
3	15780.000	58.59	-4.95	63.54	44.50	40.91	8.46	35.28	PK	---	---

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	HT-20	Test Freq. (FX)	F4
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	7000.000	53.86	-23.98	77.84	47.38	35.90	5.60	35.02	Peak	---	---
2	10520.000	66.56	-11.28	77.84	56.50	38.31	6.85	35.10	Peak	---	---
3	15780.000	58.23	-5.31	63.54	44.14	40.91	8.46	35.28	PK	---	---

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

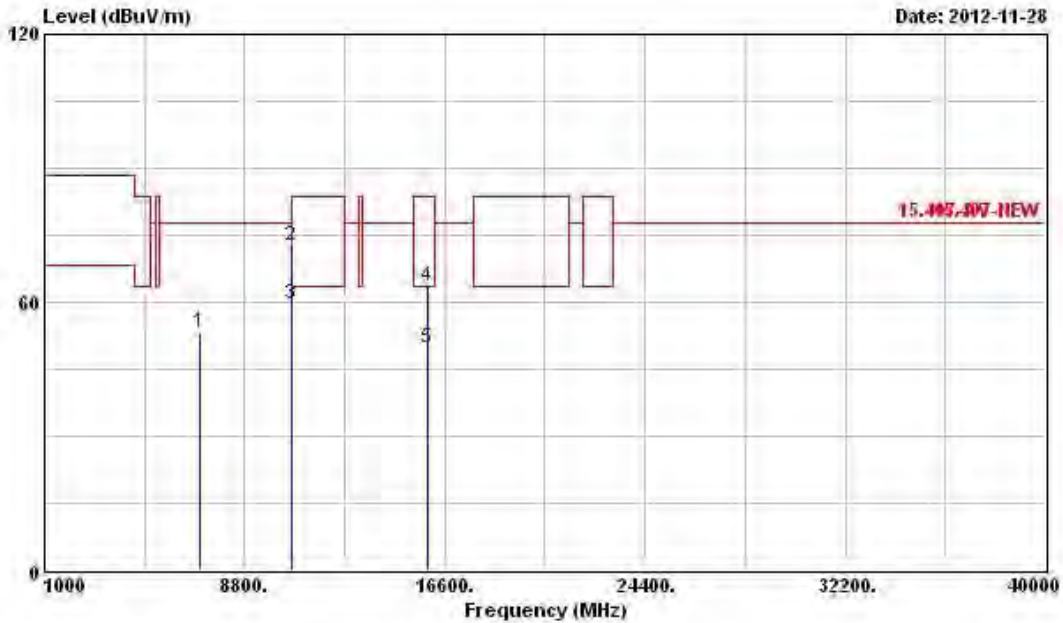
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F5
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	7054.000	53.27	-24.57	77.84	46.81	35.89	5.60	35.03	Peak	---	---
2	10600.100	72.63	-10.91	83.54	62.41	38.36	6.90	35.04	Peak	---	---
3	10600.100	59.52	-4.02	63.54	49.30	38.36	6.90	35.04	Average	---	---
4	15900.000	63.70	-19.84	83.54	49.65	40.96	8.47	35.38	Peak	---	---
5	15900.000	49.93	-13.61	63.54	35.88	40.96	8.47	35.38	Average	---	---

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

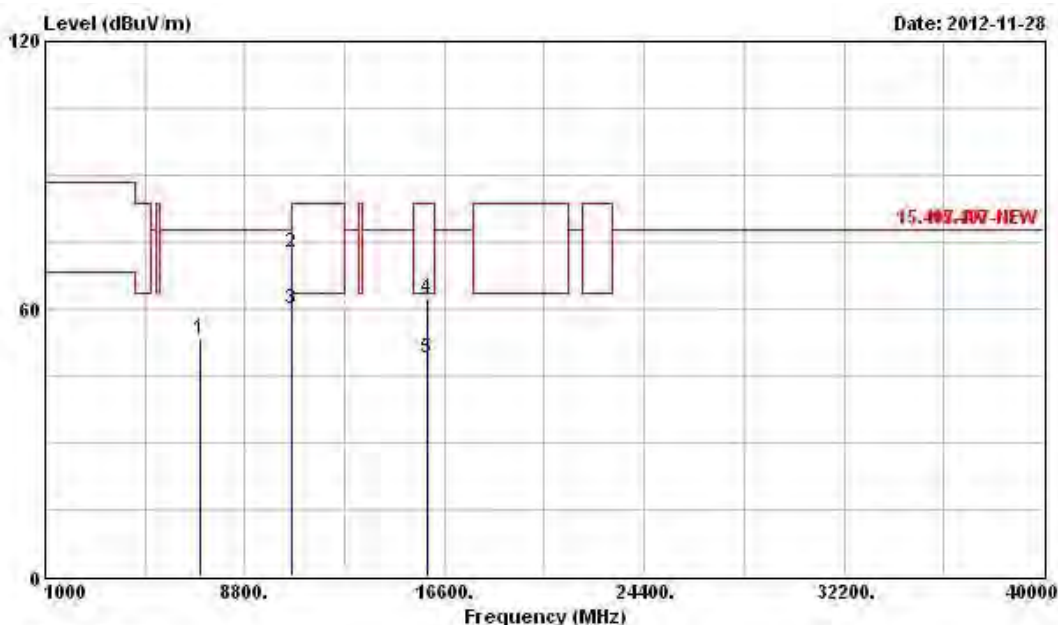
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F5
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	7054.000	53.38	-24.46	77.84	46.92	35.89	5.60	35.03	Peak	---	---
2	10600.100	72.64	-10.90	83.54	62.42	38.36	6.90	35.04	Peak	---	---
3	@10600.100	60.19	-3.35	63.54	49.97	38.36	6.90	35.04	Average	---	---
4	15900.000	62.27	-21.27	83.54	48.22	40.96	8.47	35.38	Peak	---	---
5	15900.000	49.05	-14.49	63.54	35.00	40.96	8.47	35.38	Average	---	---

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

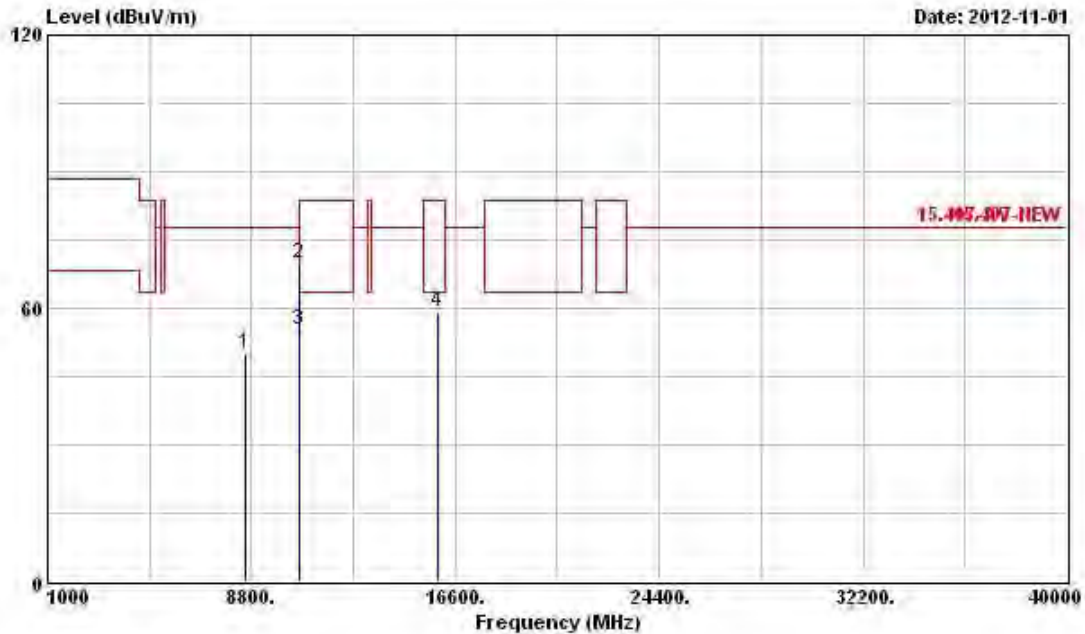
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F6
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	8540.000	49.95	-27.89	77.84	42.91	36.33	5.96	35.25	Peak	---	---
2	10640.000	69.74	-13.80	83.54	59.43	38.38	6.93	35.00	Peak	---	---
3	10640.000	55.40	-8.14	63.54	45.09	38.38	6.93	35.00	Average	---	---
4	15960.000	59.15	-4.39	63.54	45.14	40.99	8.47	35.45	PK	---	---

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

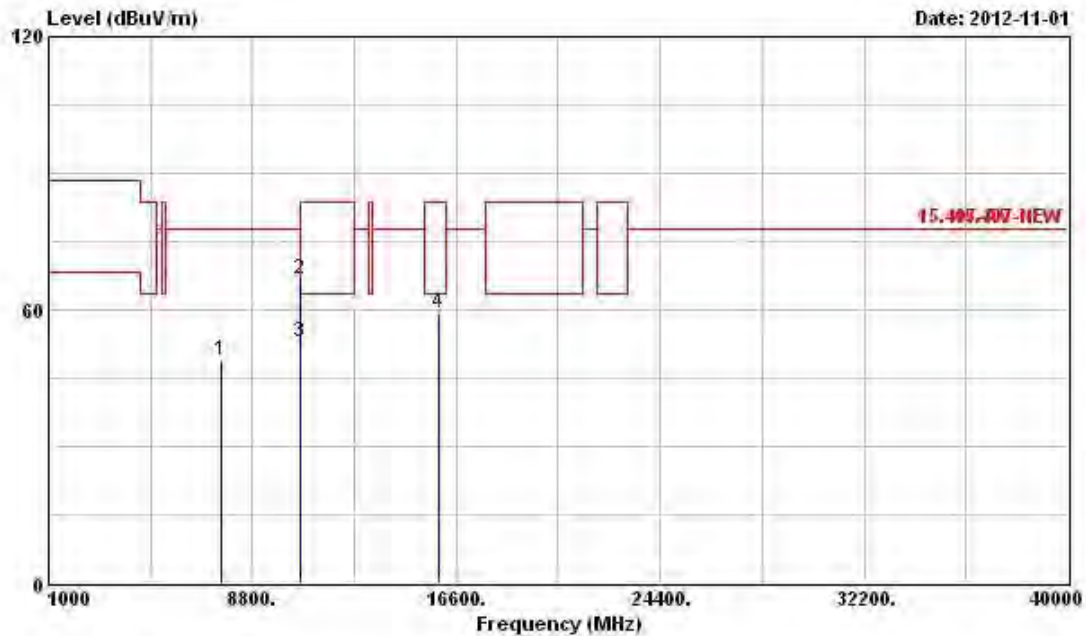
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F6
N_{TX}	3	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	7612.000	48.78	-29.06	77.84	42.44	35.82	5.69	35.17	---	---
2	10640.000	66.80	-16.74	83.54	56.49	38.38	6.93	35.00	---	---
3	10640.000	52.76	-10.78	63.54	42.45	38.38	6.93	35.00	---	---
4	15960.000	59.18	-4.36	63.54	45.17	40.99	8.47	35.45	---	---

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

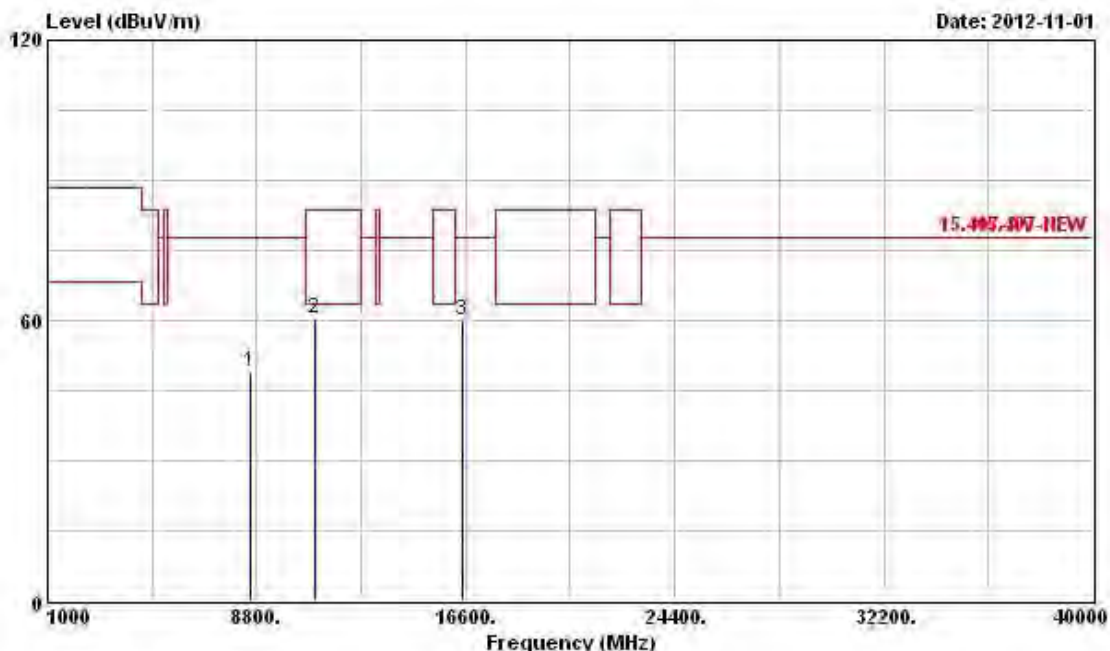
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F7
N_{TX}	3	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Rnt Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8532.000	48.85	-28.99	77.84	41.81	36.32	5.96	35.24	Peak	---	---
2	@11000.000	60.22	-3.32	63.54	49.17	38.60	7.17	34.72	PK	---	---
3	16500.000	60.17	-17.67	77.84	44.92	42.00	8.24	34.99	Peak	---	---

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

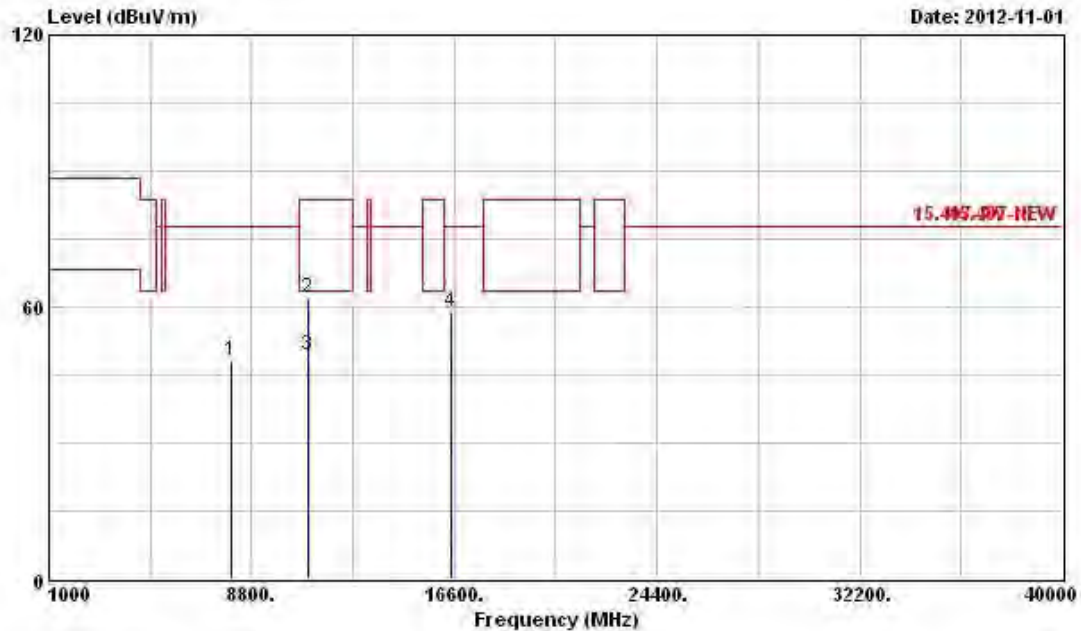
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F7
N_{TX}	3	Polarization	H



	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	8034.000	48.06	-29.78	77.84	41.59	35.93	5.81	35.27	Peak	---
2	11000.000	62.03	-21.51	83.54	50.98	38.60	7.17	34.72	Peak	---
3	11000.000	49.21	-14.33	63.54	38.16	38.60	7.17	34.72	Average	---
4	16500.000	58.77	-19.07	77.84	43.52	42.00	8.24	34.99	Peak	---

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

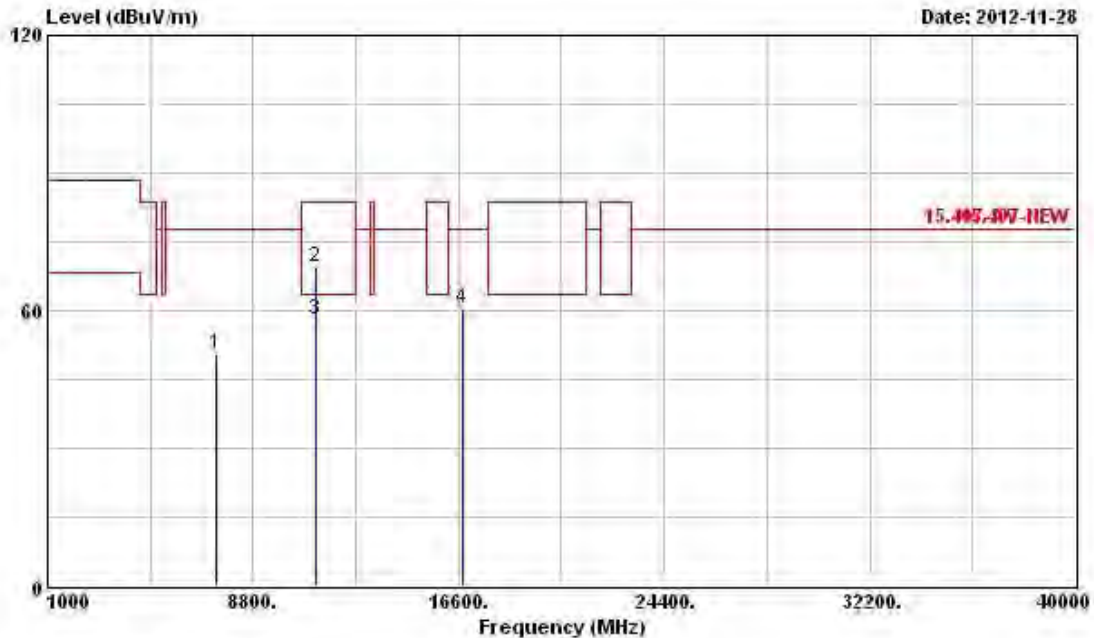
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F8
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	7430.000	50.42	-27.42	77.84	44.09	35.81	5.65	35.13	Peak	---	---
2	11160.000	69.53	-14.01	83.54	58.59	38.70	6.96	34.72	Peak	---	---
3	11160.000	57.83	-5.71	63.54	46.89	38.70	6.96	34.72	Average	---	---
4	16740.000	60.36	-17.48	77.84	44.54	41.86	8.47	34.51	Peak	---	---

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

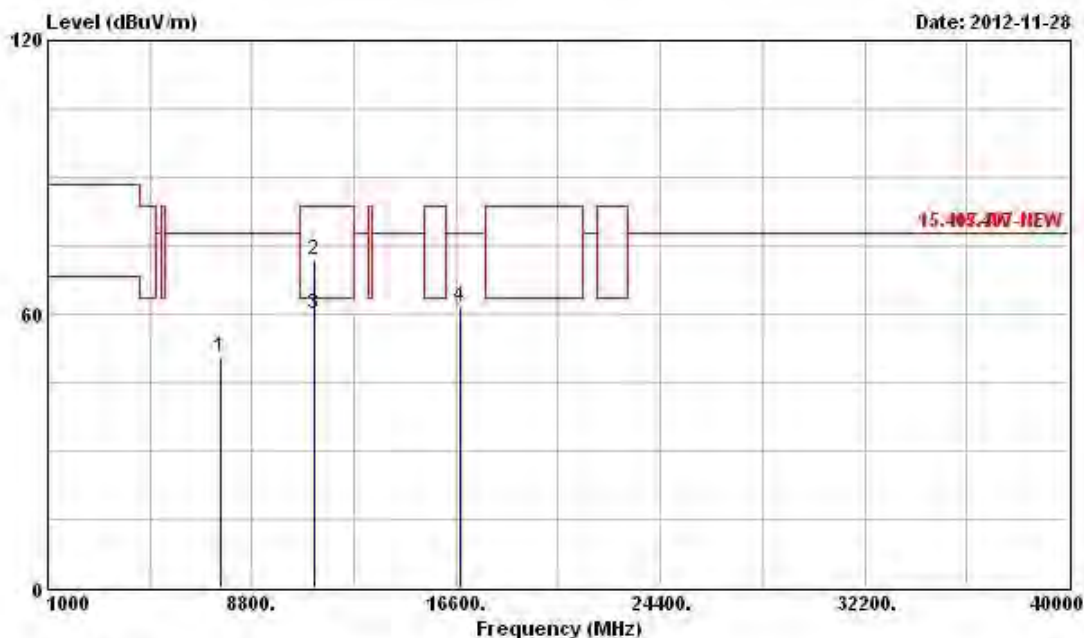
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F8
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	7630.000	50.47	-27.37	77.84	44.13	35.83	5.69	35.18	Peak	---	---
2	11160.000	71.94	-11.60	83.54	61.00	38.70	6.96	34.72	Peak	---	---
3	@11160.000	60.10	-3.44	63.54	49.16	38.70	6.96	34.72	Average	---	---
4	16740.000	61.56	-16.28	77.84	45.74	41.86	8.47	34.51	Peak	---	---

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

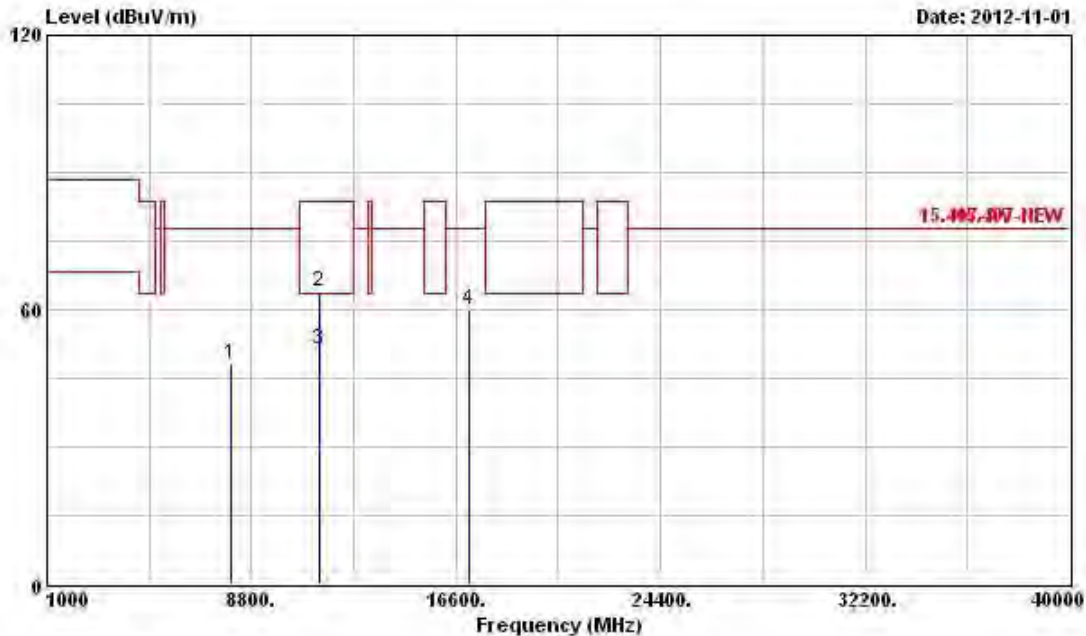
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-20	Test Freq. (FX)	F9
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	8034.000	48.07	-29.77	77.84	41.60	35.93	5.81	35.27	Peak	---	---
2	11400.000	64.07	-19.47	83.54	53.24	38.84	6.71	34.72	Peak	---	---
3	11400.000	51.27	-12.27	63.54	40.44	38.84	6.71	34.72	Average	---	---
4	17100.000	59.84	-18.00	77.84	43.55	41.66	8.61	33.98	Peak	---	---

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

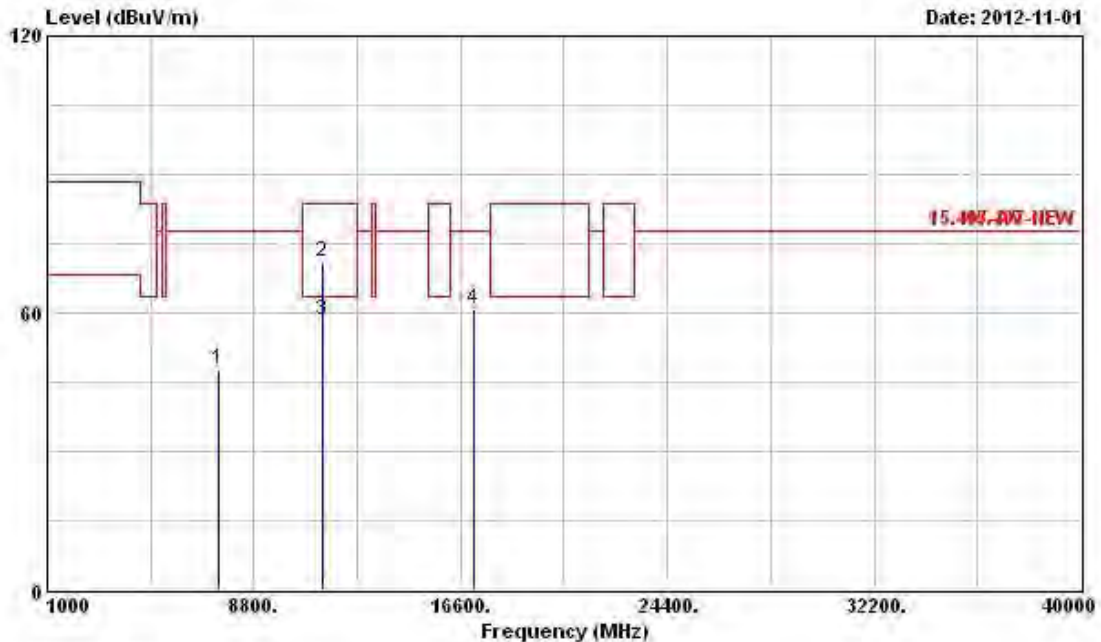
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

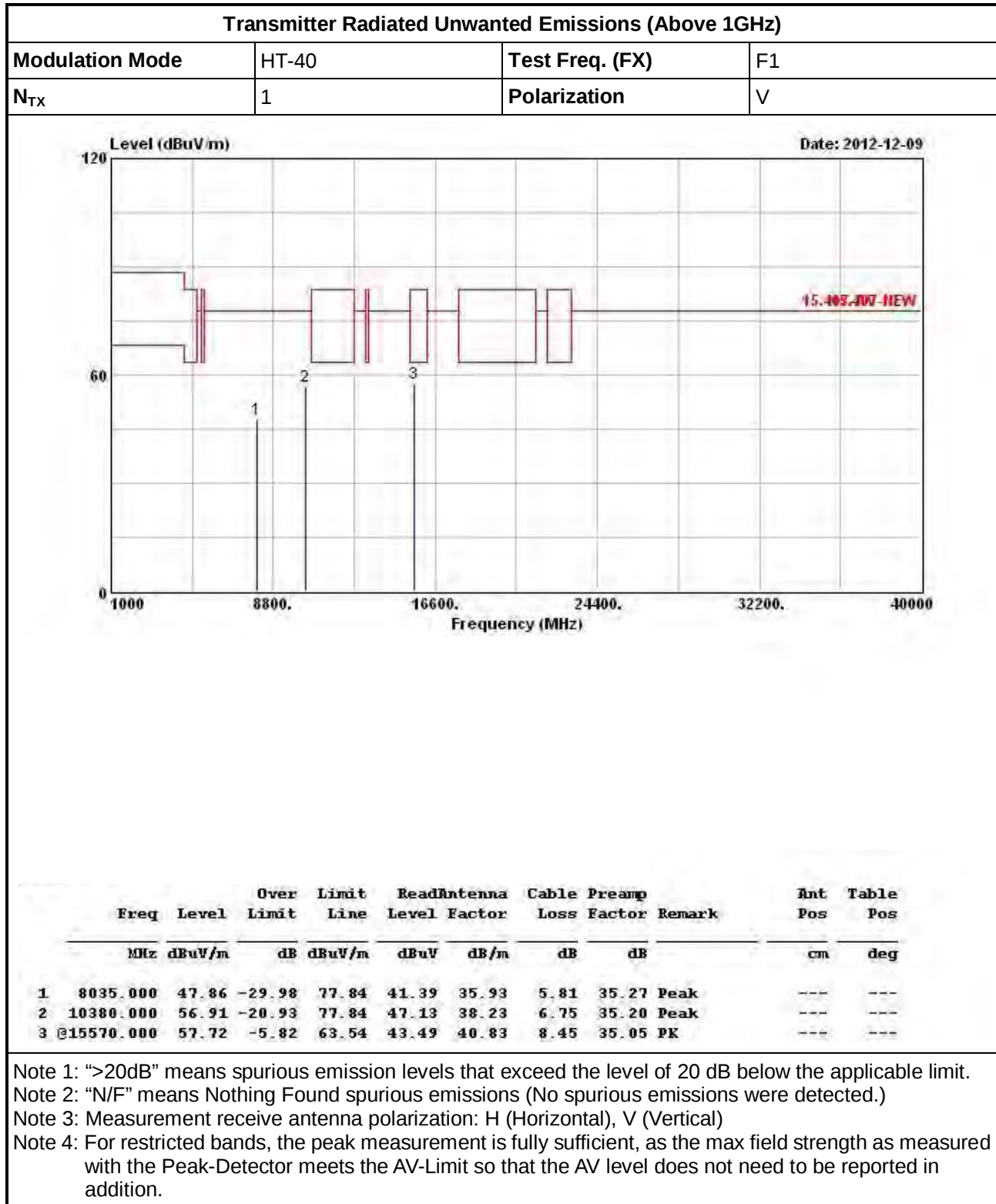
Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT-20	Test Freq. (FX)	F9
N _{TX}	3	Polarization	H



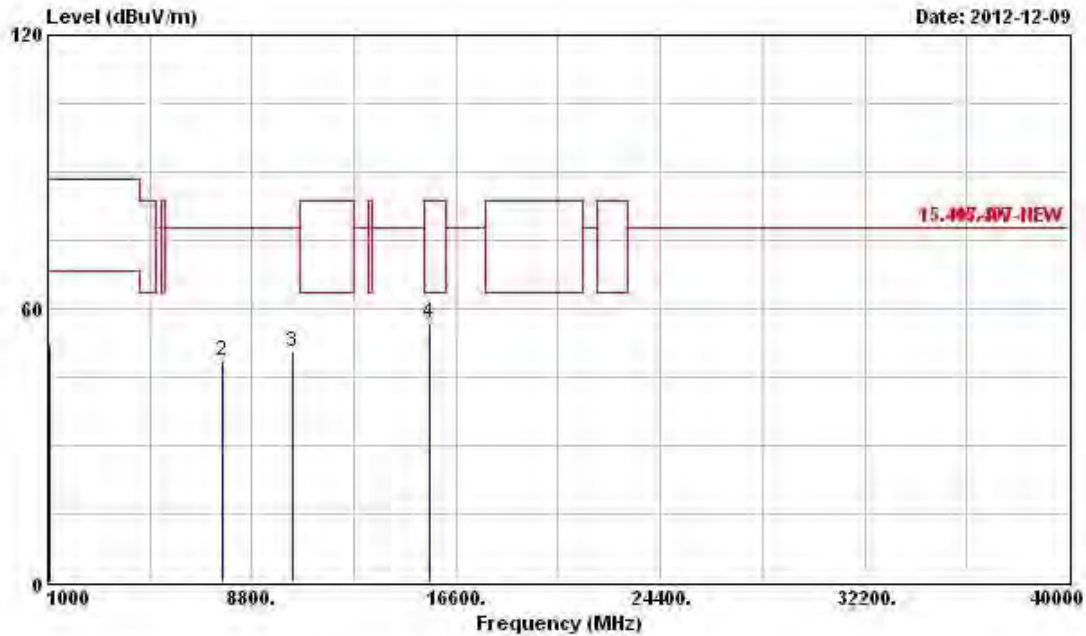
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7473.000	47.77	-30.07	77.84	41.45	35.80	5.66	35.14	Peak	---	---
2	11400.000	71.01	-12.53	83.54	60.18	38.84	6.71	34.72	Peak	---	---
3	11400.000	58.49	-5.05	63.54	47.66	38.84	6.71	34.72	Average	---	---
4	17100.000	60.81	-17.03	77.84	44.52	41.66	8.61	33.98	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 HT-40


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT-40	Test Freq. (FX)	F1
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	1080.000	52.05	-36.25	88.30	57.28	28.33	1.88	35.44	Peak	---	---
2	7702.000	48.60	-29.24	77.84	42.24	35.84	5.72	35.20	Peak	---	---
3	10380.000	50.57	-27.27	77.84	40.79	38.23	6.75	35.20	Peak	---	---
4	15570.000	56.96	-6.58	63.54	42.73	40.83	8.45	35.05	PK	---	---

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

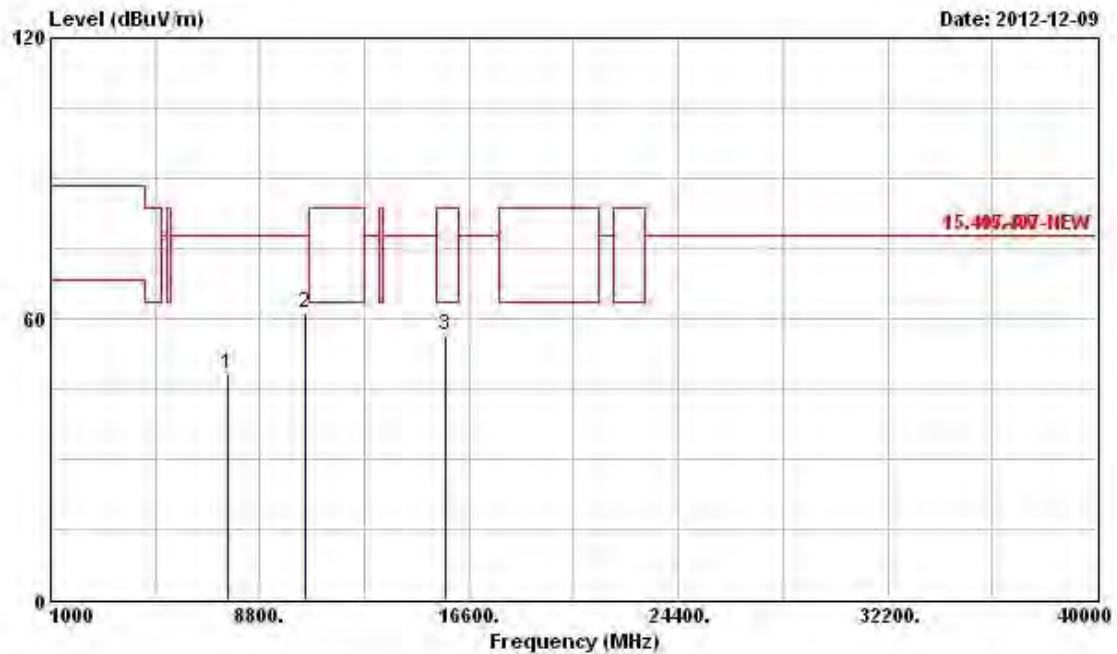
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F2
N _{TX}	1	Polarization	V

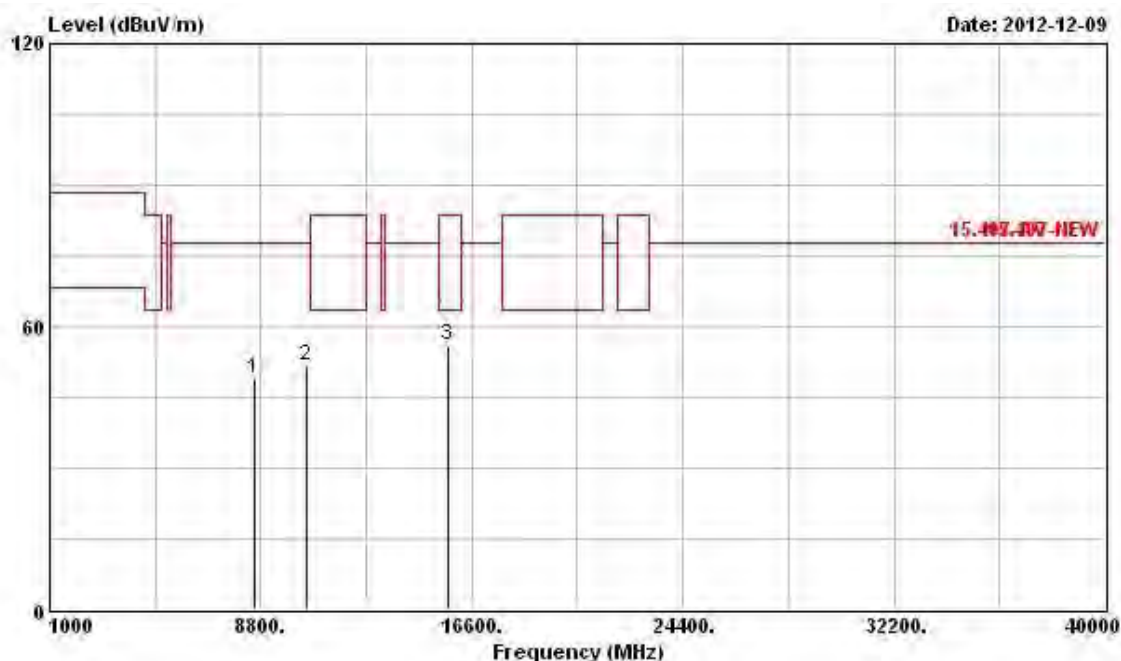


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7603.000	48.34	-29.50	77.84	42.01	35.82	5.68	35.17	Peak	---	---
2	10460.000	61.06	-16.78	77.84	51.11	38.27	6.82	35.14	Peak	---	---
3	15690.000	56.53	-7.01	63.54	42.37	40.88	8.46	35.18	PK	---	---

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	HT-40	Test Freq. (FX)	F2
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	8566.000	49.00	-28.84	77.84	41.94	36.34	5.97	35.25	Peak	---	---
2	10460.000	51.59	-26.25	77.84	41.64	38.27	6.82	35.14	Peak	---	---
3	15690.000	56.17	-7.37	63.54	42.01	40.88	8.46	35.18	PK	---	---

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

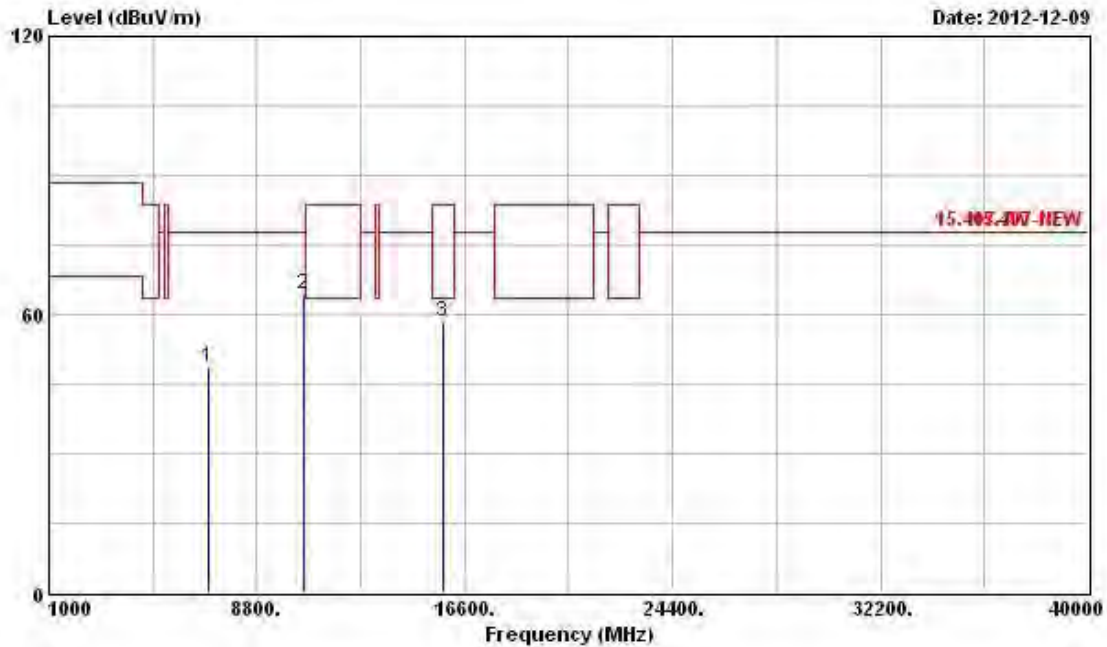
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F3
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	7018.000	48.55	-29.29	77.84	42.08	35.90	5.60	35.03	Peak	---	---
2	10540.000	64.21	-13.63	77.84	54.09	38.32	6.88	35.08	Peak	---	---
3	15810.000	58.59	-4.95	63.54	44.51	40.92	8.46	35.30	PK	---	---

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

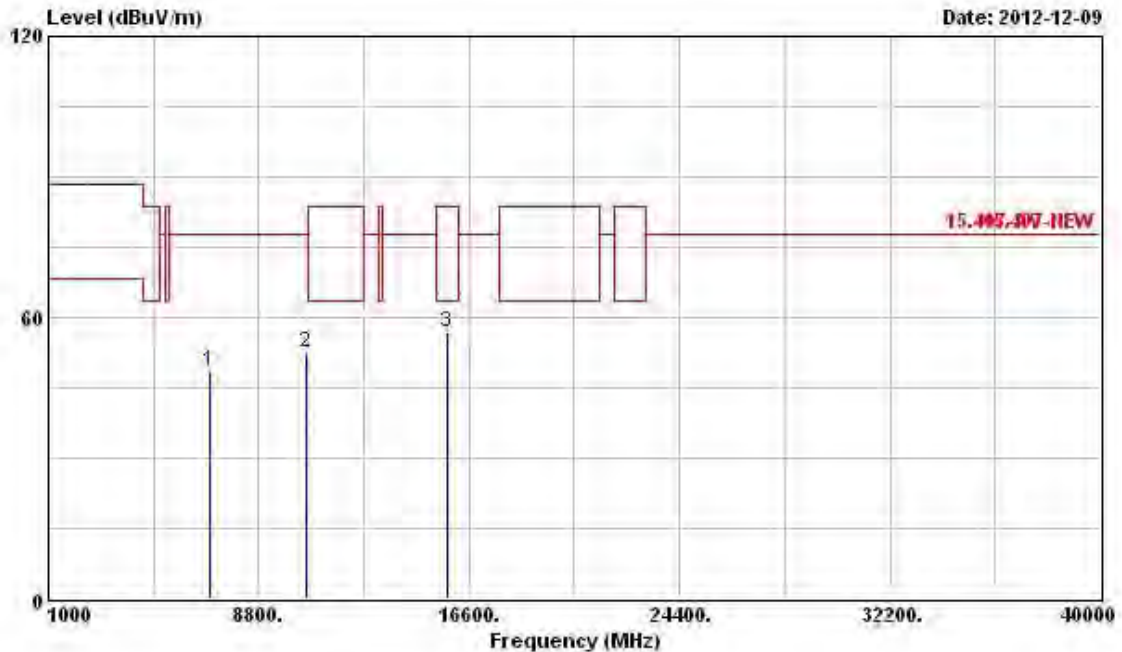
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F3
N _{TX}	1	Polarization	H

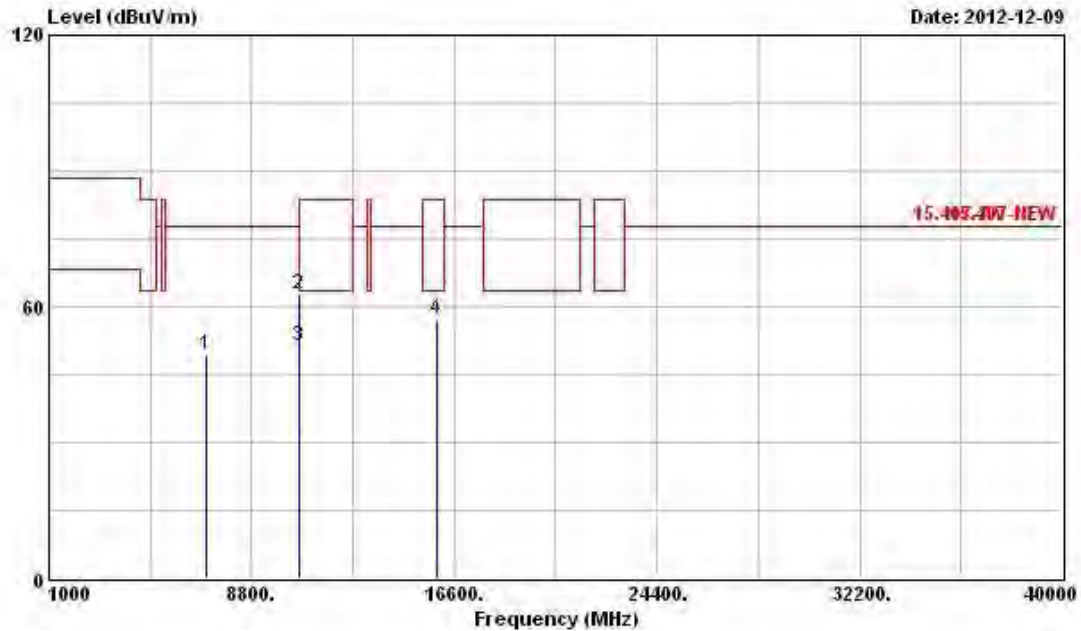


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7018.000	48.61	-29.23	77.84	42.14	35.90	5.60	35.03	Peak	---	---
2	10540.000	52.43	-25.41	77.84	42.31	38.32	6.88	35.08	Peak	---	---
3	15810.000	56.68	-6.86	63.54	42.60	40.92	8.46	35.30	PK	---	---

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	HT-40	Test Freq. (FX)	F4
N_{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp				
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Ant	Table
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7063.000	49.48	-28.36	77.84	43.03	35.89	5.60	35.04	Peak	---	---
2	10620.000	62.83	-20.71	83.54	52.55	38.37	6.93	35.02	Peak	---	---
3	10620.000	51.38	-12.16	63.54	41.10	38.37	6.93	35.02	Average	---	---
4	15930.000	57.10	-26.44	83.54	43.06	40.97	8.47	35.40	Peak	---	---

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

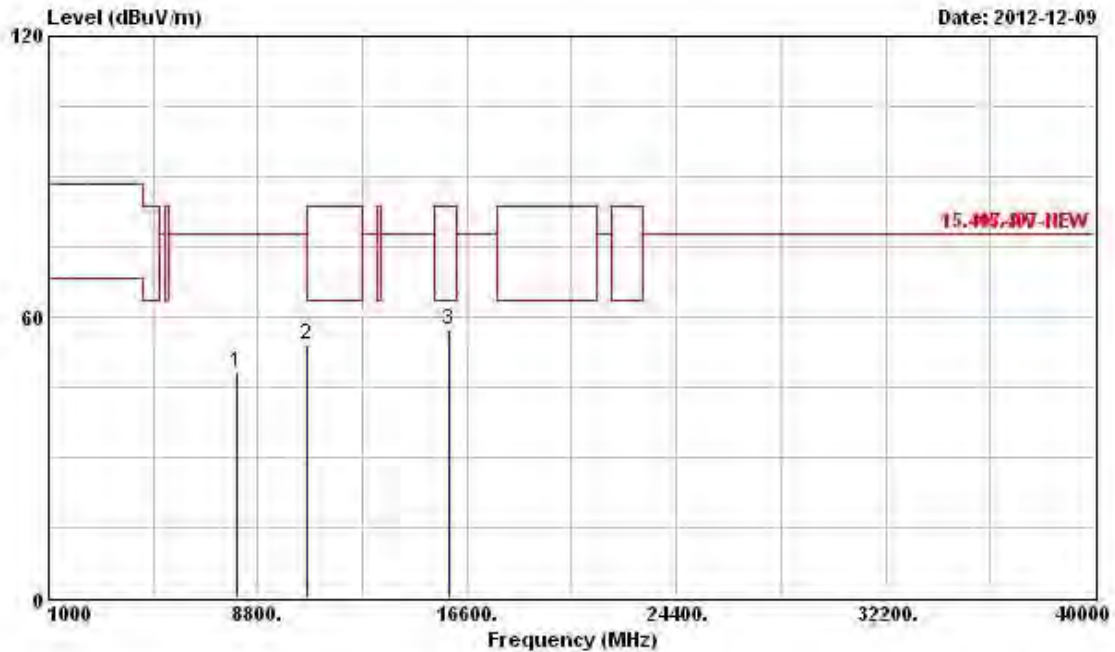
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT-40	Test Freq. (FX)	F4
N_{TX}	1	Polarization	H

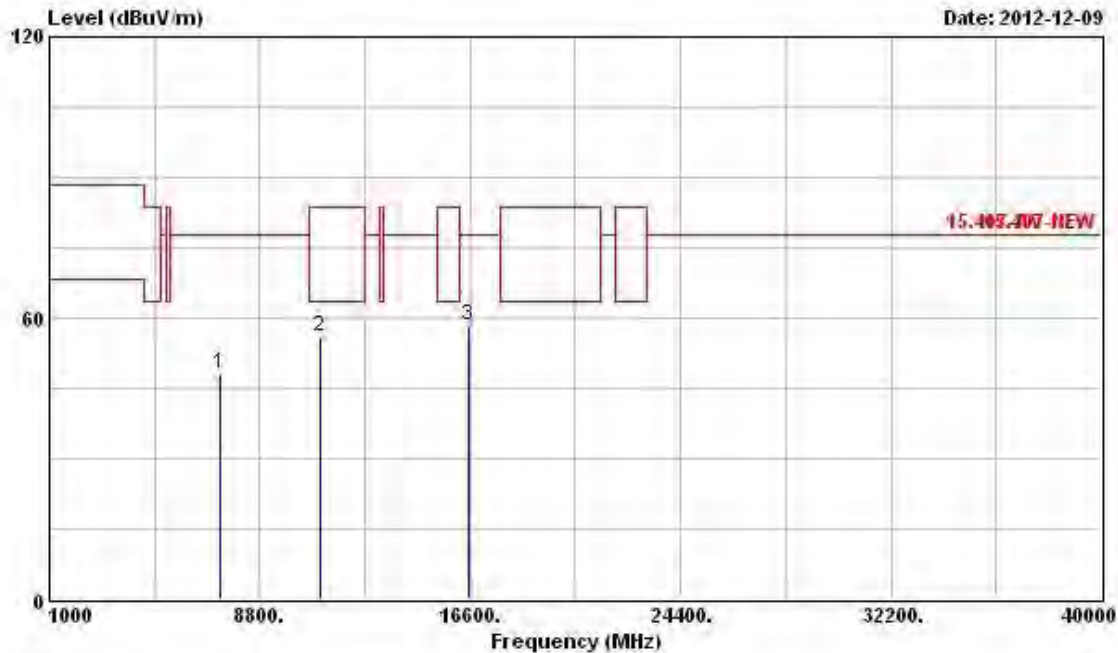


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8035.000	48.01	-29.83	77.84	41.54	35.93	5.81	35.27	Peak	---	---
2	10620.000	53.95	-9.59	63.54	43.67	38.37	6.93	35.02	PK	---	---
3	15930.000	57.27	-6.27	63.54	43.23	40.97	8.47	35.40	PK	---	---

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	HT-40	Test Freq. (FX)	F5
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	7340.000	48.17	-29.67	77.84	41.81	35.83	5.64	35.11	Peak	---	---
2	11020.000	56.01	-7.53	63.54	44.99	38.61	7.13	34.72	PK	---	---
3	16530.000	58.37	-19.47	77.84	43.06	41.98	8.27	34.94	Peak	---	---

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

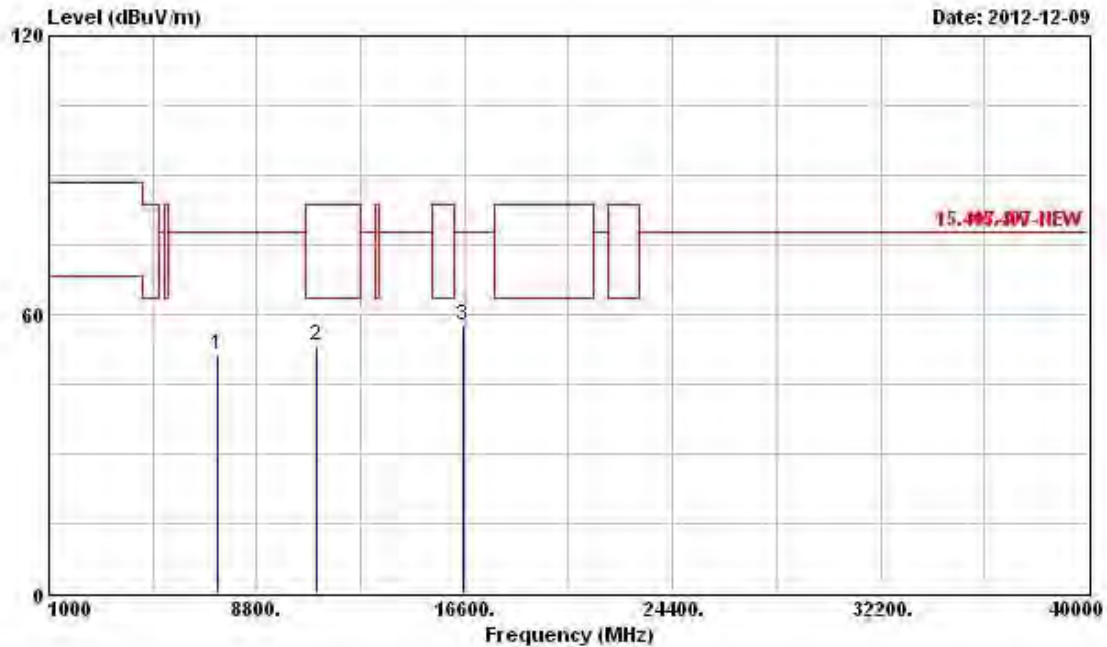
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F5
N _{TX}	1	Polarization	H

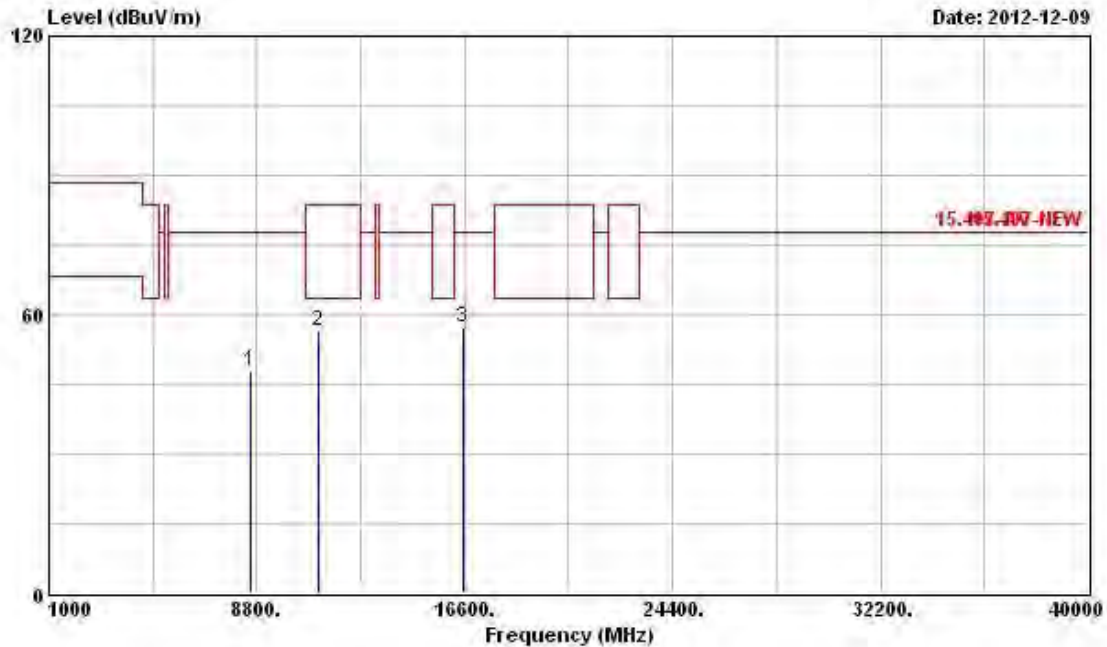


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7340.000	51.28	-26.56	77.84	44.92	35.83	5.64	35.11	Peak	---	---
2	11020.000	53.20	-10.34	63.54	42.18	38.61	7.13	34.72	PK	---	---
3	16530.000	57.60	-20.24	77.84	42.29	41.98	8.27	34.94	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	HT-40	Test Freq. (FX)	F6
N _{TX}	1	Polarization	V

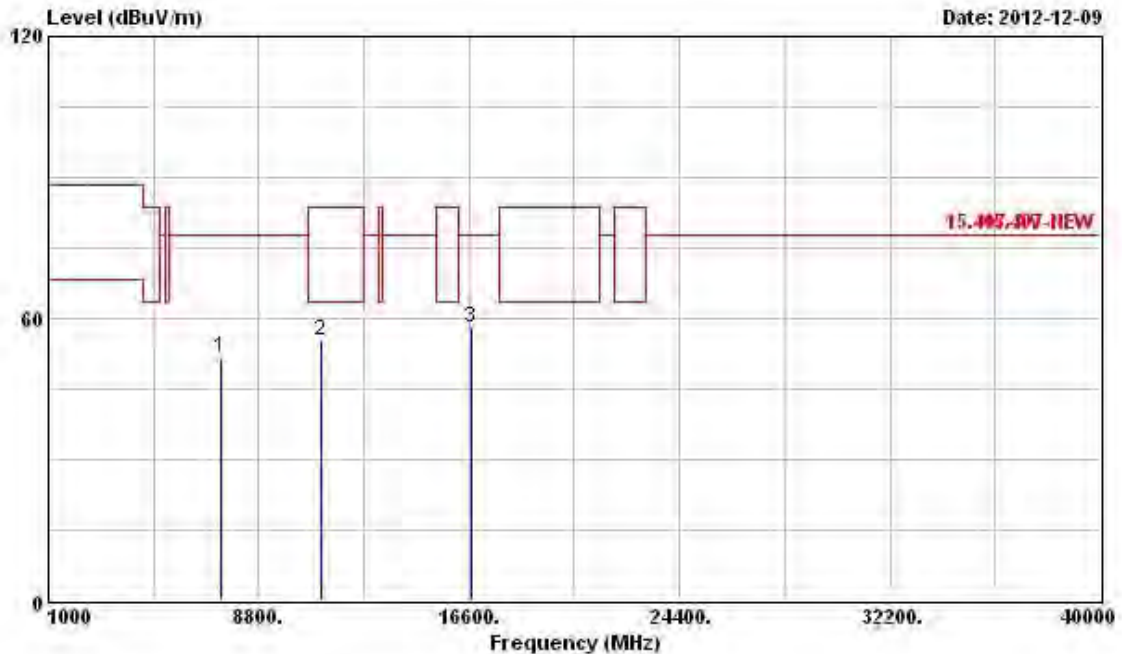


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8540.000	47.87	-29.97	77.84	40.83	36.33	5.96	35.25	Peak	---	---
2	11100.000	56.26	-7.28	63.54	45.27	38.66	7.05	34.72	PK	---	---
3	16530.000	57.30	-20.54	77.84	41.99	41.98	8.27	34.94	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	HT-40	Test Freq. (FX)	F6
N _{TX}	1	Polarization	H

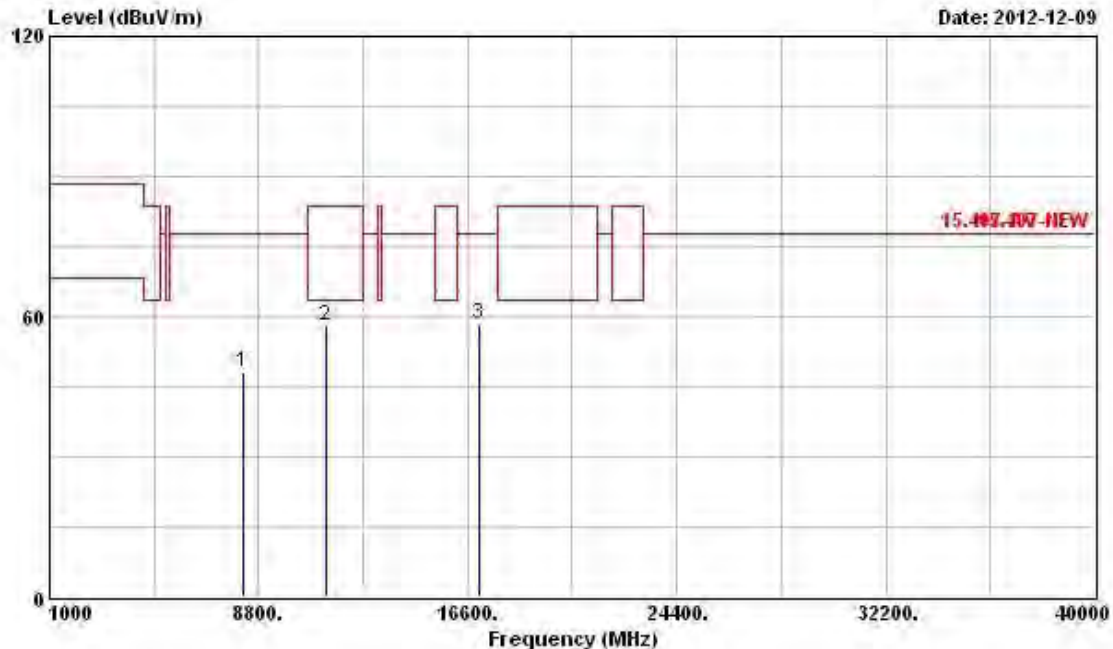


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			Rnt	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7390.000	51.87	-25.97	77.84	45.52	35.82	5.65	35.12	Peak	---	---
2	11100.000	55.22	-8.32	63.54	44.23	38.66	7.05	34.72	PK	---	---
3	16650.000	57.95	-19.89	77.84	42.34	41.91	8.37	34.67	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	HT-40	Test Freq. (FX)	F7
N_{TX}	1	Polarization	V

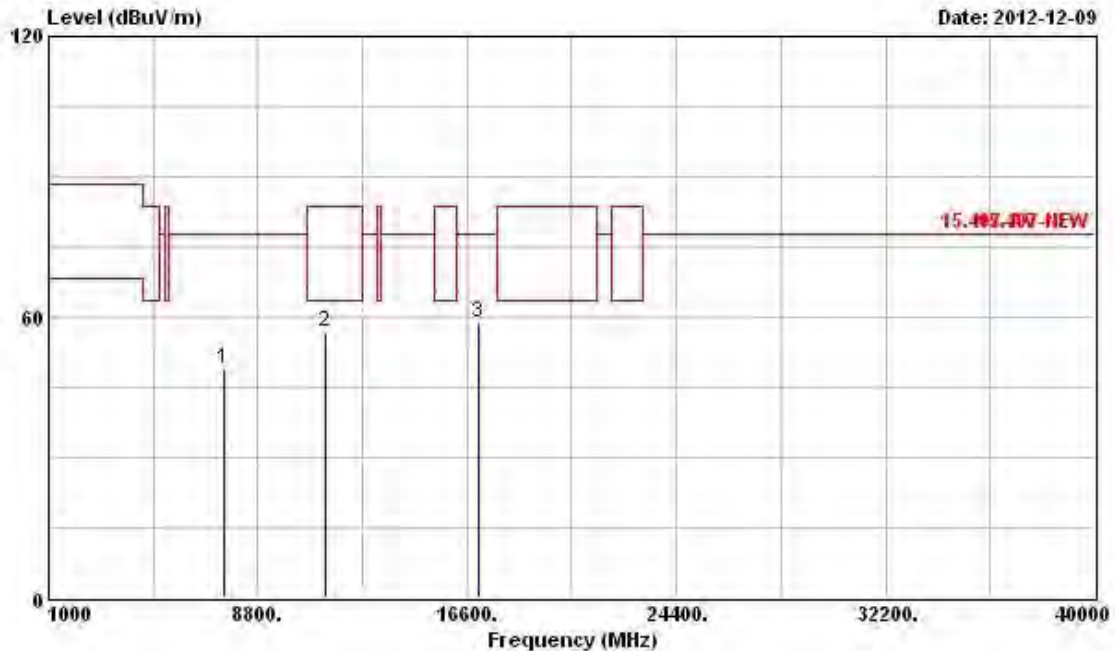


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8190.000	48.02	-29.82	77.84	41.38	36.05	5.85	35.26	Peak	---	---
2	11340.000	58.07	-5.47	63.54	47.19	38.80	6.80	34.72	PK	---	---
3	17010.000	58.27	-19.57	77.84	41.91	41.69	8.65	33.98	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	HT-40	Test Freq. (FX)	F7
N _{TX}	1	Polarization	H

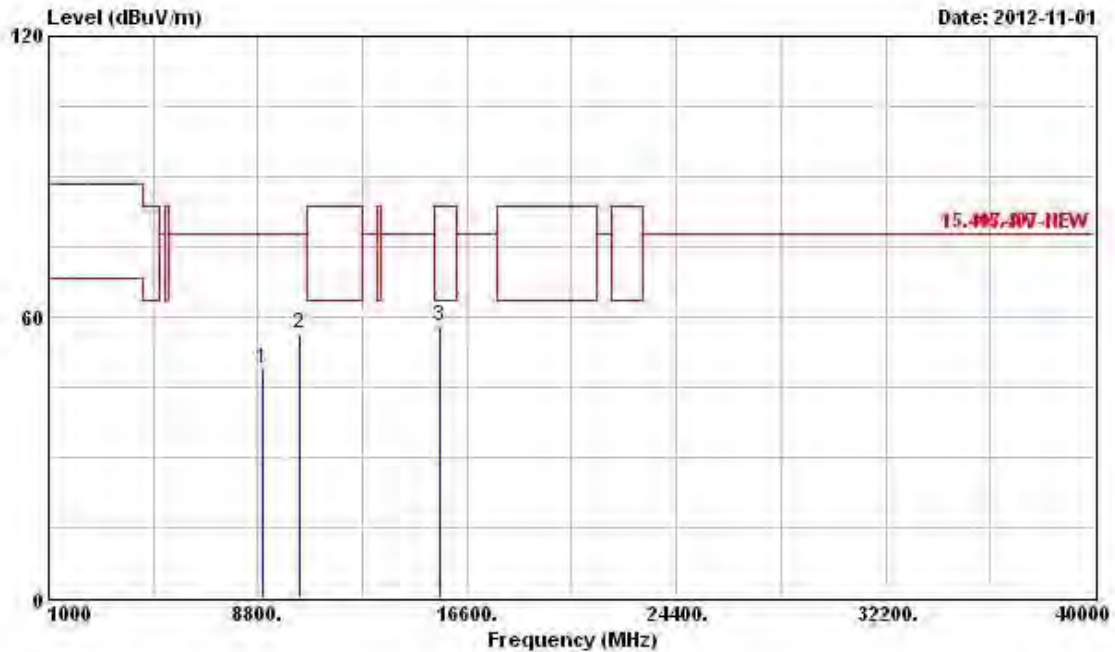


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7550.000	49.08	-28.76	77.84	42.76	35.81	5.67	35.16	Peak	---	---
2	@11340.000	56.77	-6.77	63.54	45.89	38.80	6.80	34.72	PK	---	---
3	17010.000	59.00	-18.84	77.84	42.64	41.69	8.65	33.98	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	HT-40	Test Freq. (FX)	F1
N _{TX}	3	Polarization	V

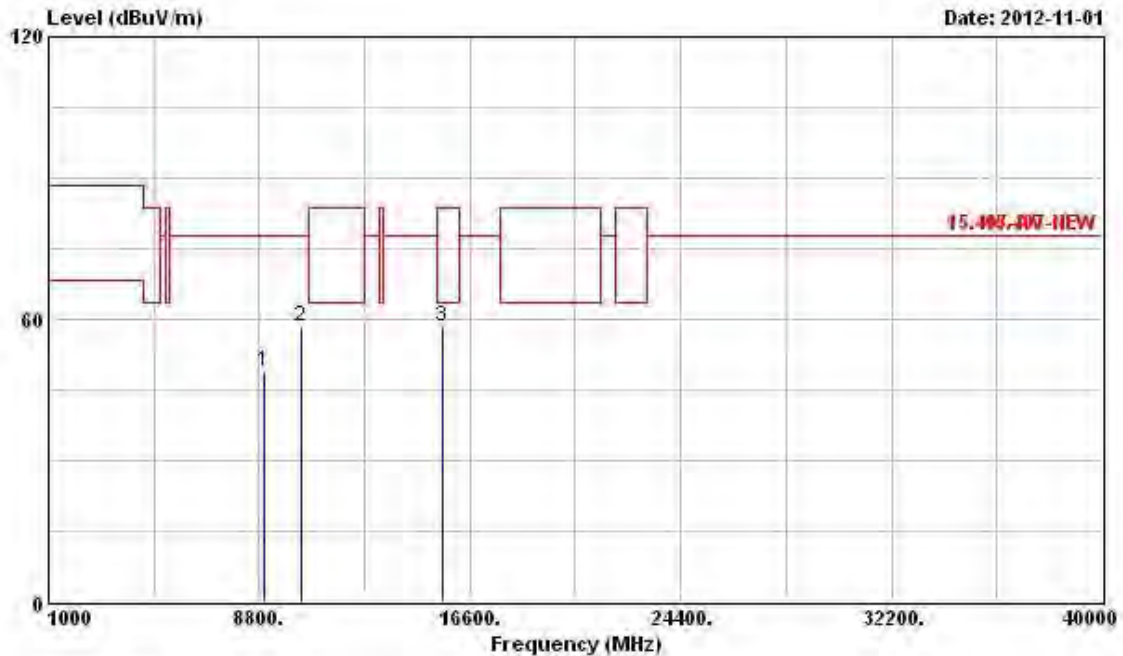


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8980.000	49.09	-28.75	77.84	41.67	36.58	6.16	35.32	Peak	---	---
2	10380.000	56.61	-21.23	77.84	46.83	38.23	6.75	35.20	Peak	---	---
3	15570.000	58.17	-5.37	63.54	43.94	40.83	8.45	35.05	PK	---	---

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	HT-40	Test Freq. (FX)	F1
N _{TX}	3	Polarization	H

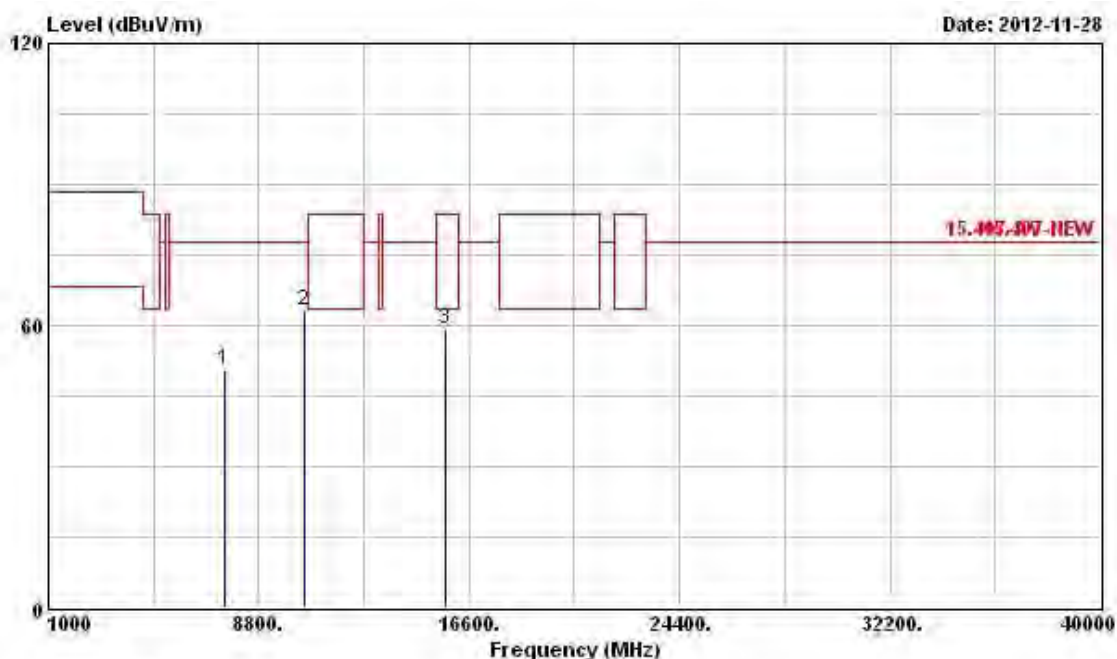


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8950.000	48.76	-29.08	77.84	41.36	36.57	6.14	35.31	Peak	---	---
2	10380.000	58.37	-19.47	77.84	48.59	38.23	6.75	35.20	Peak	---	---
3	@15570.000	58.25	-5.29	63.54	44.02	40.83	8.45	35.05	PK	---	---

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	HT-40	Test Freq. (FX)	F2
N _{TX}	3	Polarization	V

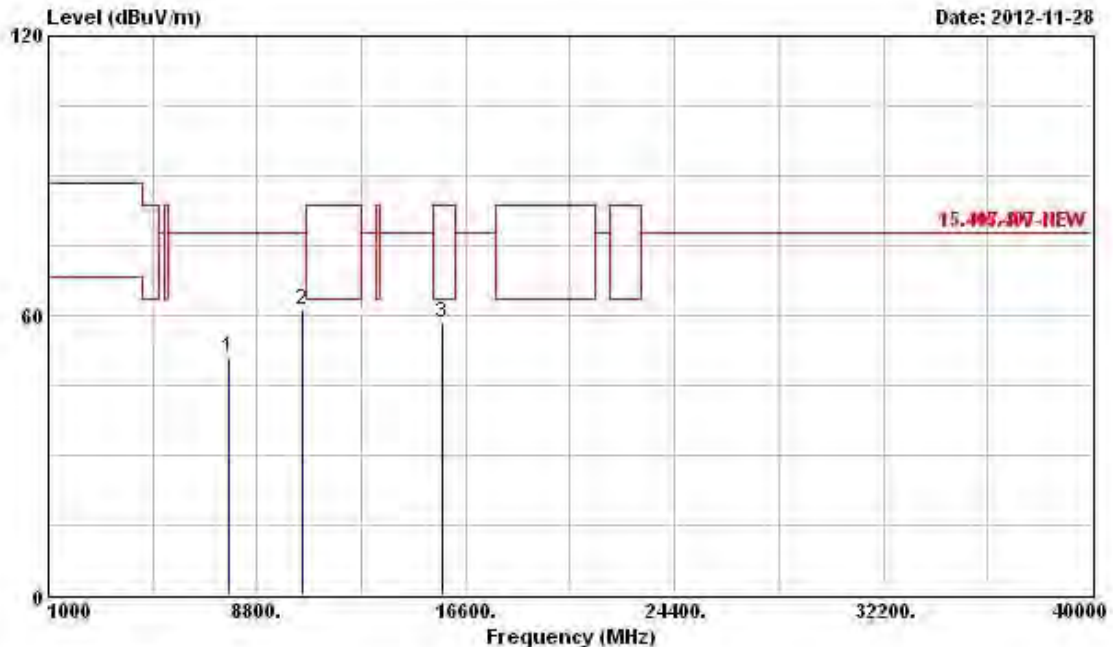


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7567.000	50.41	-27.43	77.84	44.10	35.81	5.67	35.17	Peak	---	---
2	10460.000	63.07	-14.77	77.84	53.12	38.27	6.82	35.14	Peak	---	---
3	15690.000	59.39	-4.15	63.54	45.23	40.88	8.46	35.18	PK	---	---

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	HT-40	Test Freq. (FX)	F2
N _{TX}	3	Polarization	H

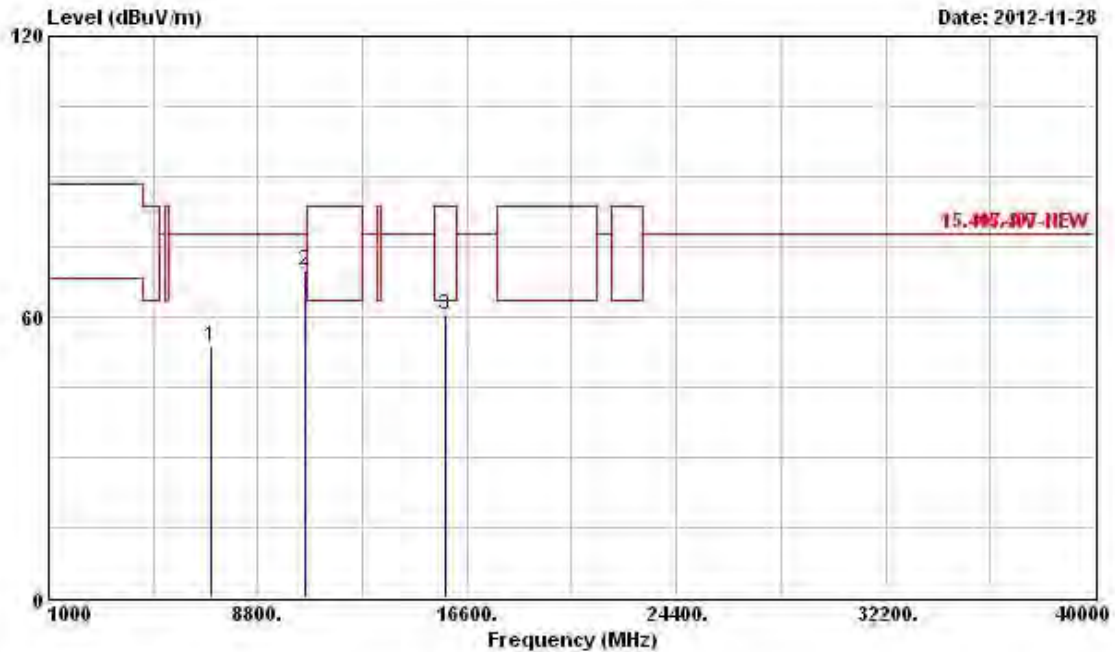


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7747.000	50.73	-27.11	77.84	44.36	35.85	5.73	35.21	Peak	---	---
2	10460.000	61.20	-16.64	77.84	51.25	38.27	6.82	35.14	Peak	---	---
3	15690.000	58.38	-5.16	63.54	44.22	40.88	8.46	35.18	PK	---	---

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	HT-40	Test Freq. (FX)	F3
N_{TX}	3	Polarization	V

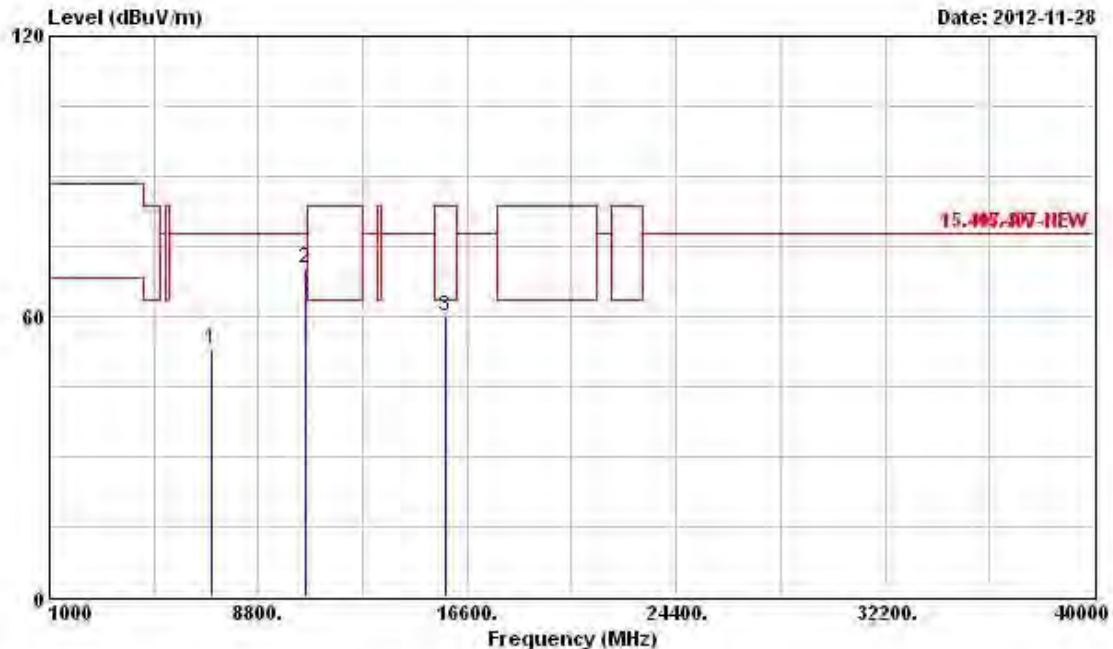


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7063.000	53.78	-24.06	77.84	47.33	35.89	5.60	35.04	Peak	---	---
2	10540.000	69.77	-8.07	77.84	59.65	38.32	6.88	35.08	Peak	---	---
3	15810.000	60.48	-3.06	63.54	46.40	40.92	8.46	35.30	PK	---	---

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	HT-40	Test Freq. (FX)	F3
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	7063.000	52.98	-24.86	77.84	46.53	35.89	5.60	35.04	Peak	---	---
2	10540.000	70.32	-7.52	77.84	60.20	38.32	6.88	35.08	Peak	---	---
3	15810.000	60.00	-3.54	63.54	45.92	40.92	8.46	35.30	PK	---	---

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

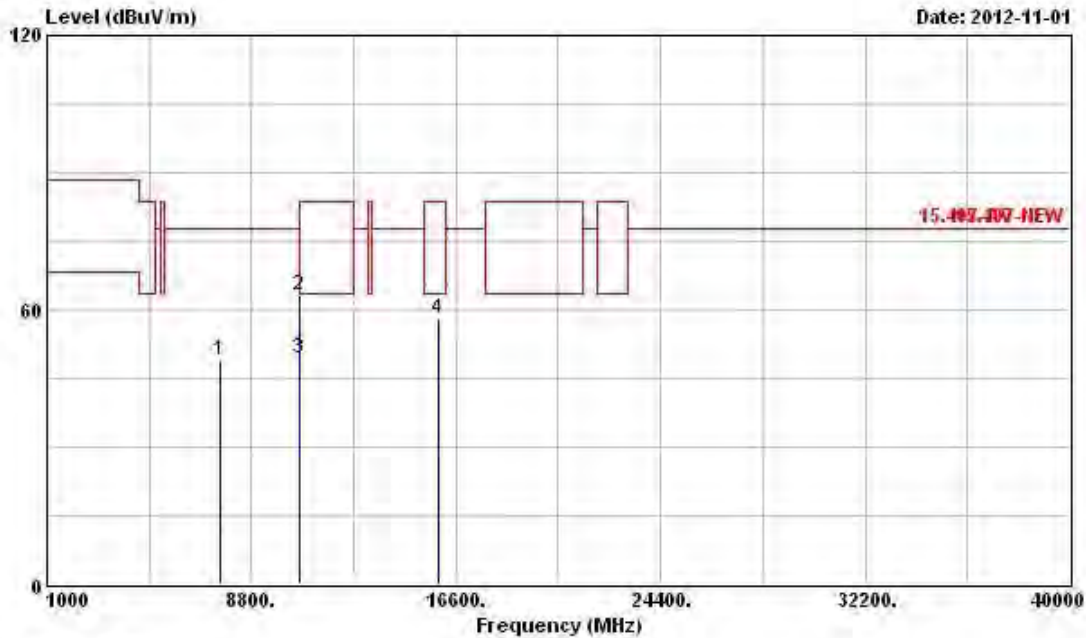
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F4
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	7614.000	48.77	-29.07	77.84	42.43	35.82	5.69	35.17	Peak	---	---
2	10620.000	62.97	-20.57	83.54	52.69	38.37	6.93	35.02	Peak	---	---
3	10620.000	49.39	-14.15	63.54	39.11	38.37	6.93	35.02	Average	---	---
4	15930.000	57.86	-5.68	63.54	43.82	40.97	8.47	35.40	PK	---	---

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

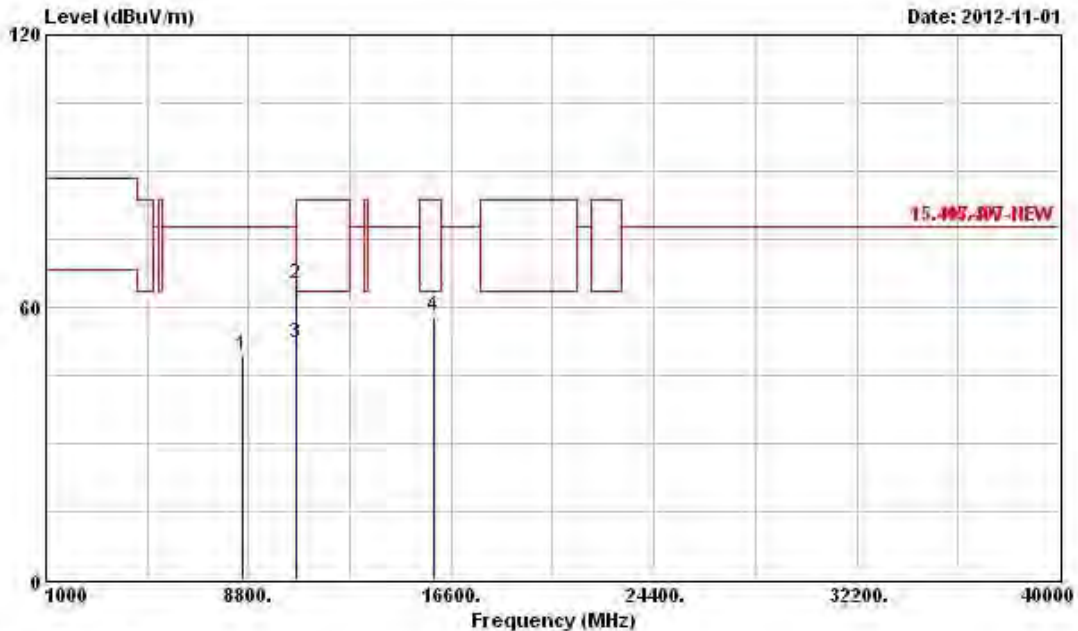
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F4
N _{TX}	3	Polarization	H

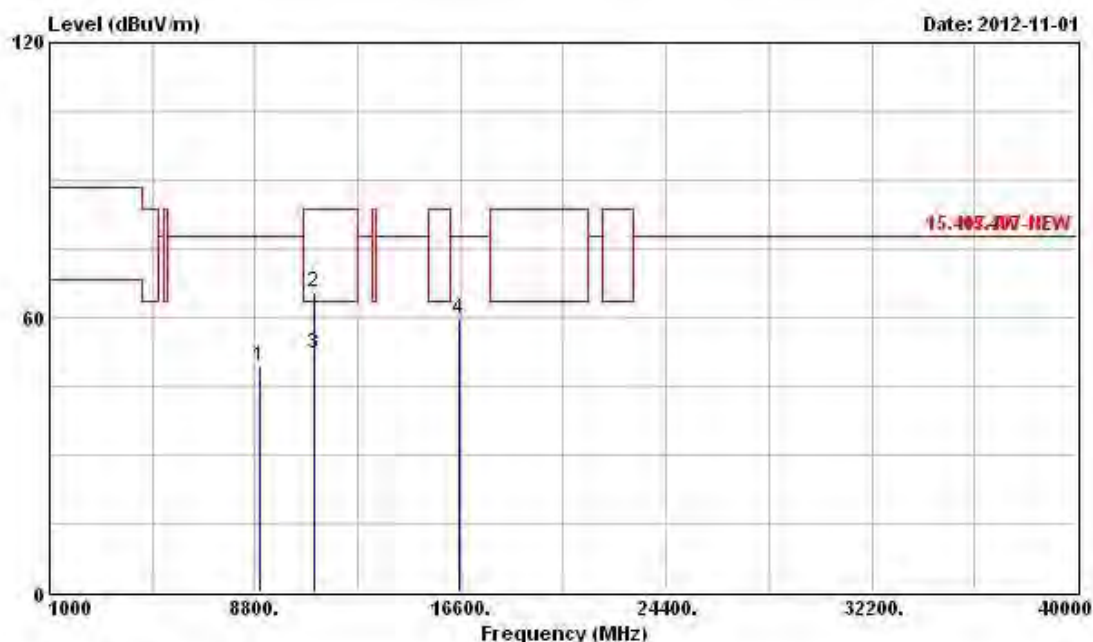


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8548.000	49.37	-28.47	77.84	42.32	36.33	5.97	35.25	Peak	---	---
2	10620.000	65.20	-18.34	83.54	54.92	38.37	6.93	35.02	Peak	---	---
3	10620.000	52.25	-11.29	63.54	41.97	38.37	6.93	35.02	Average	---	---
4	15930.000	58.20	-5.34	63.54	44.16	40.97	8.47	35.40	PK	---	---

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	HT-40	Test Freq. (FX)	F5
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	8980.000	49.25	-28.59	77.84	41.83	36.58	6.16	35.32	Peak	---	---
2	11020.000	65.64	-17.90	83.54	54.62	38.61	7.13	34.72	Peak	---	---
3	11020.000	52.17	-11.37	63.54	41.15	38.61	7.13	34.72	Average	---	---
4	16530.000	59.79	-18.05	77.84	44.48	41.98	8.27	34.94	Peak	---	---

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

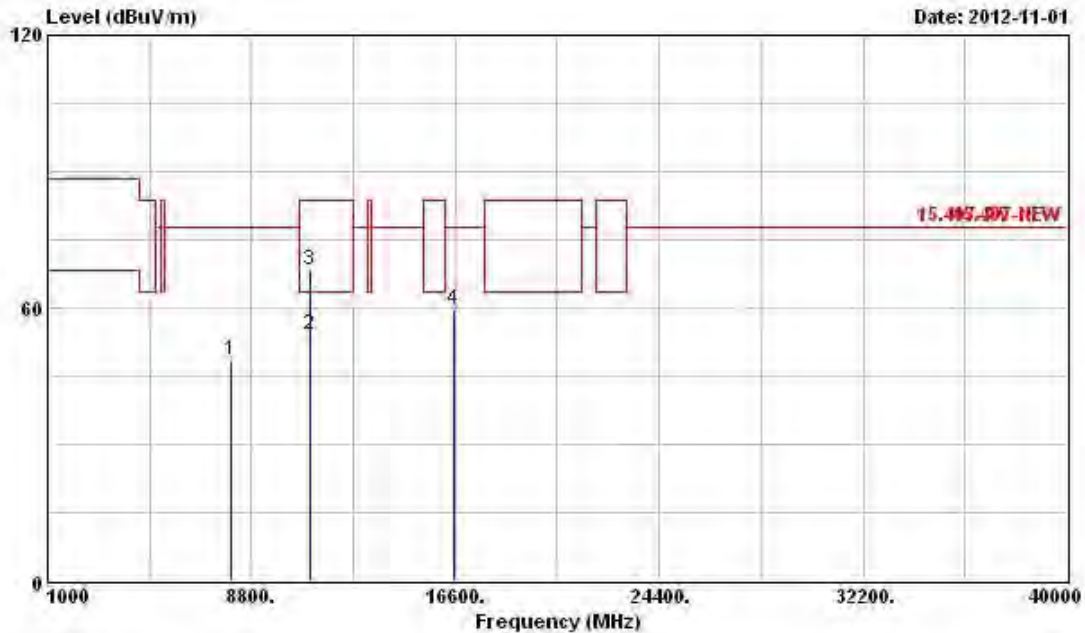
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F5
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	8030.000	48.53	-29.31	77.84	42.06	35.93	5.81	35.27	Peak	---	---
2	11020.000	54.02	-9.52	63.54	43.00	38.61	7.13	34.72	Average	---	---
3	11020.000	68.45	-15.09	83.54	57.43	38.61	7.13	34.72	Peak	---	---
4	16530.000	59.49	-18.35	77.84	44.18	41.98	8.27	34.94	Peak	---	---

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

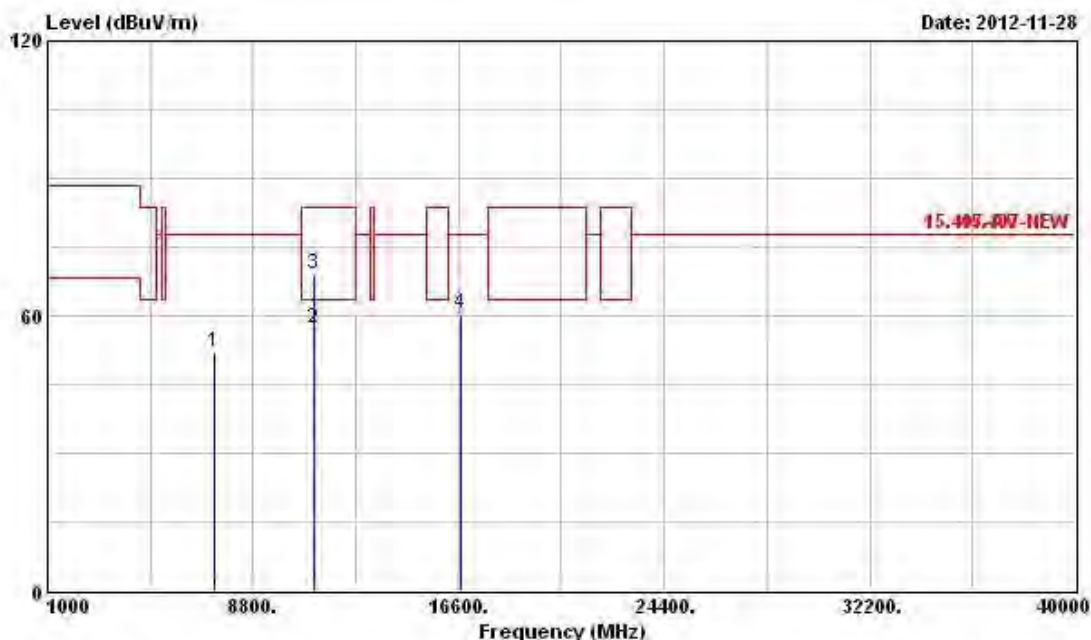
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F6
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	7330.000	52.00	-25.84	77.84	45.63	35.83	5.64	35.10	Peak	---	---
2	11100.000	57.29	-6.25	63.54	46.30	38.66	7.05	34.72	Average	---	---
3	11100.000	69.14	-14.40	83.54	58.15	38.66	7.05	34.72	Peak	---	---
4	16650.000	60.25	-17.59	77.84	44.64	41.91	8.37	34.67	Peak	---	---

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

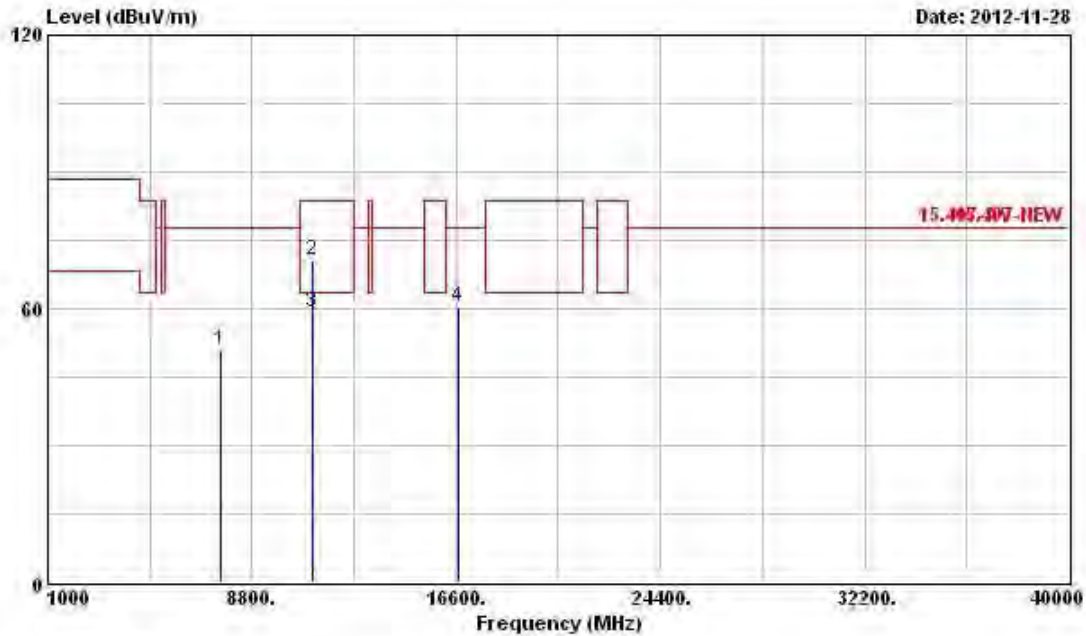
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F6
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	7605.000	50.89	-26.95	77.84	44.56	35.82	5.68	35.17	Peak	---	---
2	11100.000	70.55	-12.99	83.54	59.56	38.66	7.05	34.72	Peak	---	---
3	11100.000	59.29	-4.25	63.54	48.30	38.66	7.05	34.72	Average	---	---
4	16650.000	60.37	-17.47	77.84	44.76	41.91	8.37	34.67	Peak	---	---

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

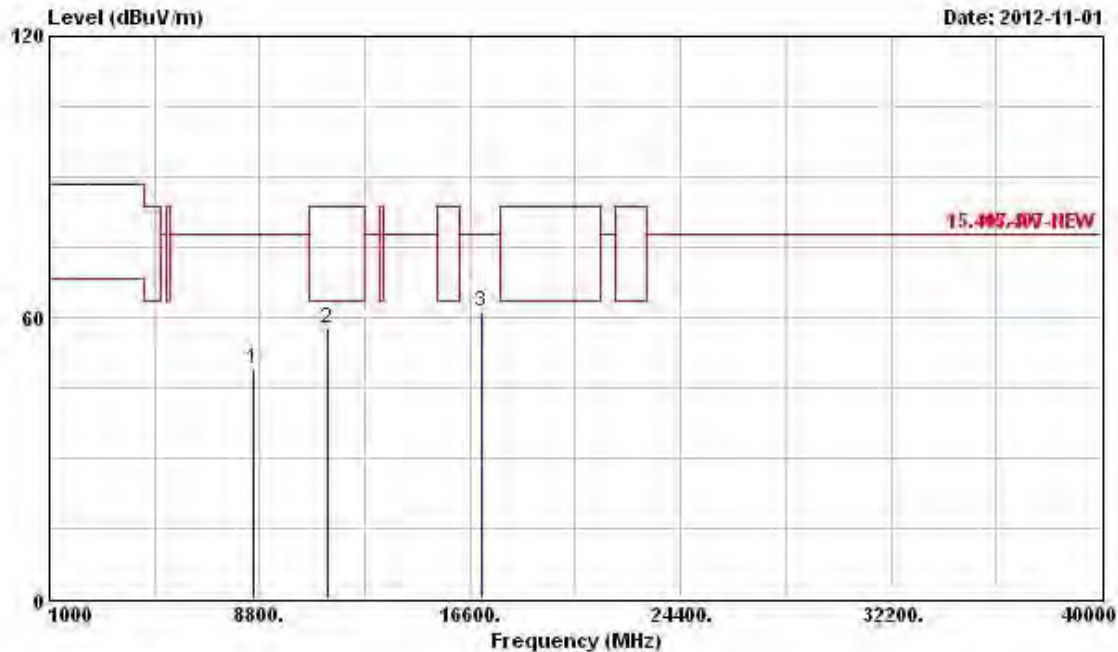
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT-40	Test Freq. (FX)	F7
N _{TX}	3	Polarization	V

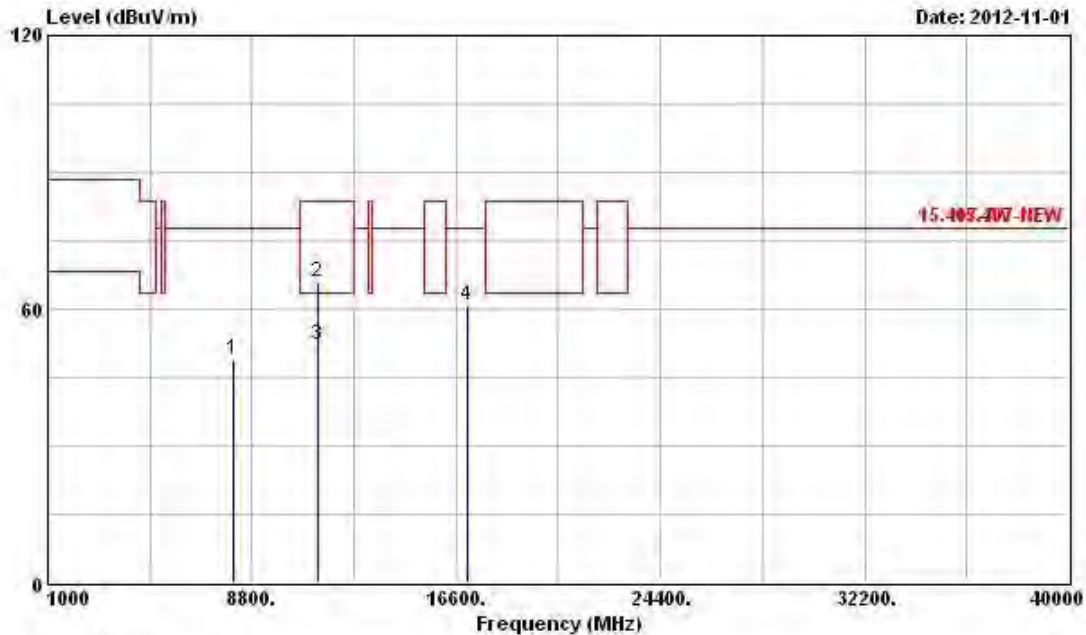


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8540.000	48.91	-28.93	77.84	41.87	36.33	5.96	35.25	Peak	---	---
2	11340.000	57.79	-5.75	63.54	46.91	38.80	6.80	34.72	PK	---	---
3	17010.000	61.13	-16.71	77.84	44.77	41.69	8.65	33.98	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	HT-40	Test Freq. (FX)	F7
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	8052.000	48.86	-28.98	77.84	42.37	35.94	5.82	35.27	Peak	---	---
2	11340.000	65.82	-17.72	83.54	54.94	38.80	6.80	34.72	Peak	---	---
3	11340.000	52.08	-11.46	63.54	41.20	38.80	6.80	34.72	Average	---	---
4	17010.000	60.60	-17.24	77.84	44.24	41.69	8.65	33.98	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.

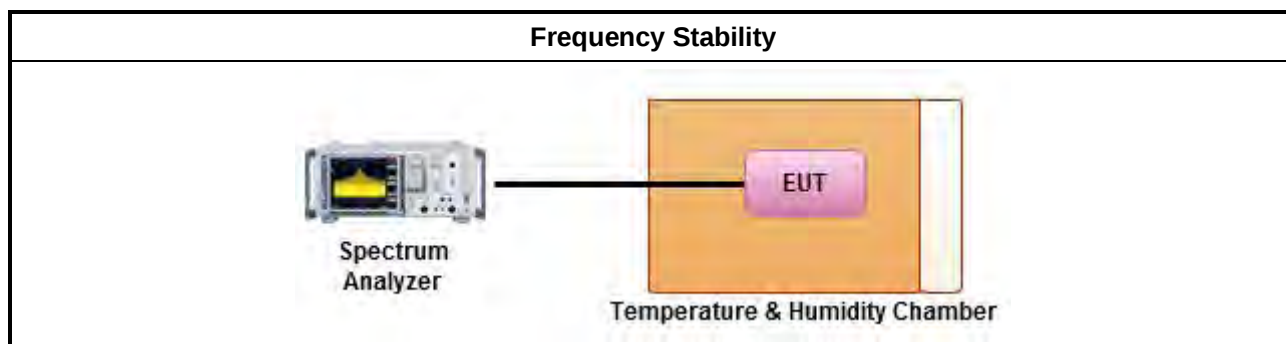
3.8.2 Measuring Instruments

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)	0 min	2 min	5 min	10 min	Limit
T _{20°C} V _{max}	5300	2.13	1.64	1.23	1.72	20.0
T _{20°C} V _{min}	5300	1.47	1.64	1.89	1.28	20.0
T _{50°C} V _{nom}	5300	1.15	1.15	1.23	1.39	20.0
T _{40°C} V _{nom}	5300	0.25	0.16	0.08	1.64	20.0
T _{30°C} V _{nom}	5300	1.15	0.98	0.98	0.90	20.0
T _{20°C} V _{nom}	5300	2.95	2.78	2.62	2.54	20.0
T _{10°C} V _{nom}	5300	4.75	4.75	4.64	4.67	20.0
T _{0°C} V _{nom}	5300	6.72	6.64	6.47	6.39	20.0
T _{-10°C} V _{nom}	5300	8.27	8.27	8.19	8.03	20.0
T _{-20°C} V _{nom}	5300	8.35	8.52	8.44	8.44	20.0
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. 23, 2012	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Feb. 08, 2012	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 20, 2012	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	CB049	9kHz ~ 30MHz	Apr. 25, 2012	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP 40	100305	9KHz ~ 40GHz	Feb. 21, 2012	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Jun. 19, 2012	Conducted (TH01-HY)
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 02, 2012	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100℃	Nov. 21, 2012	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 26, 2012	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	Jan. 12, 2012	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	Jan. 12, 2012	Conducted (TH01-HY)
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	1GHz ~ 26.5GHz	NA	Conducted (TH01-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Sep. 14, 2012	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 10, 2012	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 23, 2012	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 10, 2012	Radiation (03CH02-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	May 30, 2012	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan.13, 2012	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 10, 2012	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 06, 2012	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 22, 2012	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 ~ 4 m	N/A	Radiation (03CH02-HY)

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/0001	9 kHz ~ 30 MHz	Jul. 03, 2012	Radiation (03CH02-HY)

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