

FCC Partial Test Report

Equipment : IEEE 802.11 a/b/g/n Wireless LAN and Bluetooth Combo LGA Module

Brand Name : AzureWave

Model No. : AW-AM691NF

FCC ID : TLZ-AM691NF

Standard : 47 CFR FCC Part 15.407

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

FCC Classification : NII

Applicant : AzureWave Technologies, Inc.

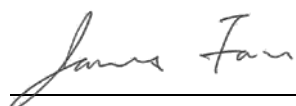
Manufacturer : 8 F., No. 94, Baozhong Rd., Xindian, Taipei, Taiwan 231

Operate Mode : Client without radar detection

The product sample received on Nov. 20, 2013 and completely tested on Nov. 19, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

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

Reviewed by:



James Fan / 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	15.407(b)	Transmitter Unwanted Emissions and Band Edge	Restricted Bands [dBuV/m at 3m]: 5350.00MHz 52.99 (Margin 1.01dB) – AV	Non-Restricted Bands: $\leq -27\text{dBm}$ (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	RF Output Power (dBm)
5150-5250	a	5180-5240	36-48 [4]	1	14.02
5250-5350		5260-5320	52-64 [4]	1	14.07
5470-5725		5500-5700	100-140 [8]	1	14.54
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	12.60
5150-5250		5180-5240	36-48 [4]	2	14.53
5250-5350		5260-5320	52-64 [4]	1	12.55
5250-5350		5260-5320	52-64 [4]	2	15.39
5470-5725		5500-5700	100-140 [8]	1	12.42
5470-5725		5500-5700	100-140 [8]	2	14.95
5150-5250		n (HT40)	5190-5230	38-46 [2]	1
5150-5250	5190-5230		38-46 [2]	2	15.14
5250-5350	5270-5310		54-62 [2]	1	12.45
5250-5350	5270-5310		54-62 [2]	2	15.20
5470-5725	5510-5670		102-134 [3]	1	12.31
5470-5725	5510-5670		102-134 [3]	2	14.82
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: The module is installed in specific host as below information					
Host Equipment Name: Tablet					
Host Brand Name: Lenovo					
Host Model Name: 20337xxxxxx; 80DExxxxxx; Lenovo Miix 2 10 tabletxxxxxx					
20359xxxxxx; 80DVxxxxxx; Lenovo Miix 2 10xxxxxx					
(x=0-9, A-Z or blank)					

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						
Ant. No.	Type	Operating Frequency (MHz) / Gain (dBi)				Connector
		2400~2483.5	5150~5250	5250~5350	5470~5725	
1 (JTIE)	PIFA (Main)	2.7	-2.56	-2.56	3.16	I-PEX
	PIFA (Aux)	-0.9	-1.48	-1.48	1.4	I-PEX
2 (WNC)	PIFA (Main)	0.47	-2.13	-2.13	1.32	I-PEX
	PIFA (Aux)	-1.27	-2.84	-2.84	1.02	I-PEX

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
☒	Plug-in radio
☐	Other:

1.2 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 v01r03
- ♦ FCC KDB 662911 v02r01
- ♦ FCC KDB 412172 v01

1.3 Testing Location Information

Testing Location				
☒	HWA YA	ADD :	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C	
		TEL :	886-3-327-3456	FAX : 886-3-327-0973
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated Emission	03CH08-HY	Jack Li	20°C / 61%	19-Nov-13
Test site registered number [643075] with FCC. Test site registered number [4086B-1] with IC.				

1.4 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
All emissions, radiated	30 – 1000 MHz	±3.9 dB	N/A
	Above 1GHz	±4.2 dB	N/A
Temperature		±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages		±3 %	N/A
Time		±1.42 %	N/A
Duty Cycle		±1.42 %	N/A

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11a	1	6-54Mbps	6 Mbps
HT20	2	MCS 0-15	MCS 8
HT40	2	MCS 0-15	MCS 8

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		-
		5220	5200	5240	5190	5230	-
11a	1	14	14	14	-	-	-
HT20	2	11	11	11	-	-	-
HT40	2	-	-	-	9	12	-

The Worst Case Power Setting Parameter (5250-5350MHz band)							
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		-
		5260	5300	5320	5270	5310	-
11a	1	14	14	14	-	-	-
HT20	2	12	12	12	-	-	-
HT40	2	-	-	-	12	12	-

The Worst Case Power Setting Parameter (5470-5725MHz band)							
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		-
		5500	5580	5700	5510	5550	5670
11a	1	13	13	13	-	-	-
HT20	2	11	11	12	-	-	-
HT40	2	-	-	-	11	11	12

2.3 Conducted Output Power

RF Output Power (dBm)					
Mode	Channel	Freq. (MHz)	Data Rate	Chain 0	Chain 1
11a	CH 036	5180 MHz	6M bps	14.02	13.65
11a	CH 044	5220 MHz	6M bps	13.85	13.59
11a	CH 048	5240 MHz	6M bps	13.93	13.47
11a	CH 052	5260 MHz	6M bps	14.07	13.61
11a	CH 060	5300 MHz	6M bps	13.93	13.44
11a	CH 064	5320 MHz	6M bps	14.01	13.60
11a	CH 100	5500 MHz	6M bps	14.43	14.54
11a	CH 116	5580 MHz	6M bps	14.26	14.47
11a	CH 140	5700 MHz	6M bps	13.74	9.18

Mode	Channel	Freq. (MHz)	Data Rate	Chain 0	Chain 1
HT20	CH 036	5180 MHz	MCS 0	11.99	12.60
HT20	CH 044	5220 MHz	MCS 0	11.86	12.41
HT20	CH 048	5240 MHz	MCS 0	11.98	12.45
HT20	CH 052	5260 MHz	MCS 0	12.17	12.55
HT20	CH 060	5300 MHz	MCS 0	12.04	12.42
HT20	CH 064	5320 MHz	MCS 0	11.97	12.47
HT20	CH 100	5500 MHz	MCS 0	12.21	12.42
HT20	CH 116	5580 MHz	MCS 0	12.20	11.41
HT20	CH 140	5700 MHz	MCS 0	11.35	11.62

Mode	Channel	Freq. (MHz)	Data Rate	Chain 0	Chain 1	Chain 0+1
HT20 MIMO	CH 036	5180 MHz	MCS 8	11.18	11.83	14.53
HT20 MIMO	CH 044	5220 MHz	MCS 8	10.97	11.68	14.35
HT20 MIMO	CH 048	5240 MHz	MCS 8	11.04	11.65	14.36
HT20 MIMO	CH 052	5260 MHz	MCS 8	12.02	12.72	15.39
HT20 MIMO	CH 060	5300 MHz	MCS 8	11.96	12.70	15.35
HT20 MIMO	CH 064	5320 MHz	MCS 8	12.18	12.52	15.36
HT20 MIMO	CH 100	5500 MHz	MCS 8	12.12	11.75	14.95
HT20 MIMO	CH 116	5580 MHz	MCS 8	12.27	10.75	14.58
HT20 MIMO	CH 140	5700 MHz	MCS 8	12.57	11.07	14.89

RF Output Power (dBm)					
Mode	Channel	Freq. (MHz)	Data Rate	Chain 0	Chain 1
HT40	CH 038	5190MHz	MCS 0	11.89	12.48
HT40	CH 046	5230MHz	MCS 0	11.88	12.47
HT40	CH 054	5270MHz	MCS 0	12.05	12.45
HT40	CH 062	5310MHz	MCS 0	11.85	12.28
HT40	CH 102	5510MHz	MCS 0	12.04	12.31
HT40	CH 110	5550MHz	MCS 0	11.97	11.85
HT40	CH 134	5670MHz	MCS 0	11.53	11.54

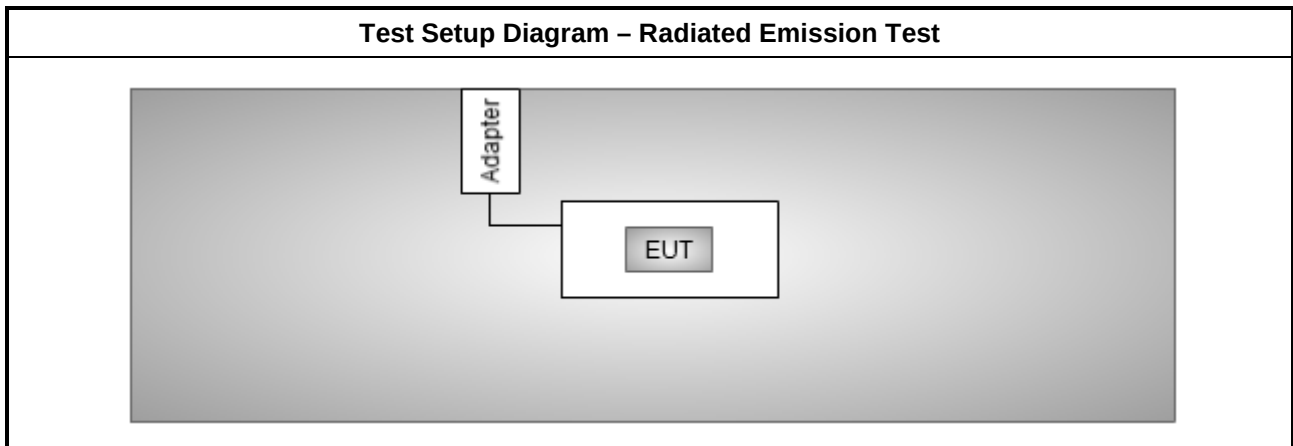
Mode	Channel	Freq. (MHz)	Data Rate	Chain 0	Chain 1	Chain 0+1
HT40 MIMO	CH 038	5180 MHz	MCS 8	8.25	9.24	11.79
HT40 MIMO	CH 046	5220 MHz	MCS 8	11.94	12.30	15.14
HT40 MIMO	CH 054	5240 MHz	MCS 8	11.88	12.47	15.20
HT40 MIMO	CH 062	5260 MHz	MCS 8	11.97	12.37	15.19
HT40 MIMO	CH 102	5300 MHz	MCS 8	12.06	11.53	14.82
HT40 MIMO	CH 110	5320 MHz	MCS 8	11.93	11.07	14.53
HT40 MIMO	CH 134	5500 MHz	MCS 8	12.69	10.64	14.80

2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Transmitter Radiated Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
User Position	☐ EUT will be placed in fixed position.
	☐ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.
	☒ EUT will be operating multiple positions. EUT shall be performed two or three orthogonal planes. The worst plane is Z.
Operating Mode < 1GHz	☒ 1. 1. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH52

Operating Mode > 1GHz	☒ 1. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH36		
	☒ 2. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH44		
	☒ 3. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH48		
	☒ 4. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH52		
	☒ 5. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH60		
	☒ 6. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH64		
	☒ 7. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH100		
	☒ 8. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH116		
	☒ 9. Radio link (WLAN), 802.11a with 6 Mbps, chain 0, CH140		
	☒ 10. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH36		
	☒ 11. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH44		
	☒ 12. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH48		
	☒ 13. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH52		
	☒ 14. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH60		
	☒ 15. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH64		
	☒ 16. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH100		
	☒ 17. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH116		
	☒ 18. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH140		
	☒ 19. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH38		
	☒ 20. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH46		
	☒ 21. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH54		
	☒ 22. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH62		
	☒ 23. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH102		
	☒ 24. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH110		
	☒ 25. Radio link (WLAN), 802.11n HT40 with MCS 8, chain 0+1, CH134		
	☒ 26. Radio link (WLAN), 802.11a with 6 Mbps, chain 1, CH140		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 Transmitter Radiated Unwanted Emissions and Band Edge

3.1.1 Transmitter Radiated Unwanted Emissions and Band Edge 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).

3.1.2 Measuring Instruments

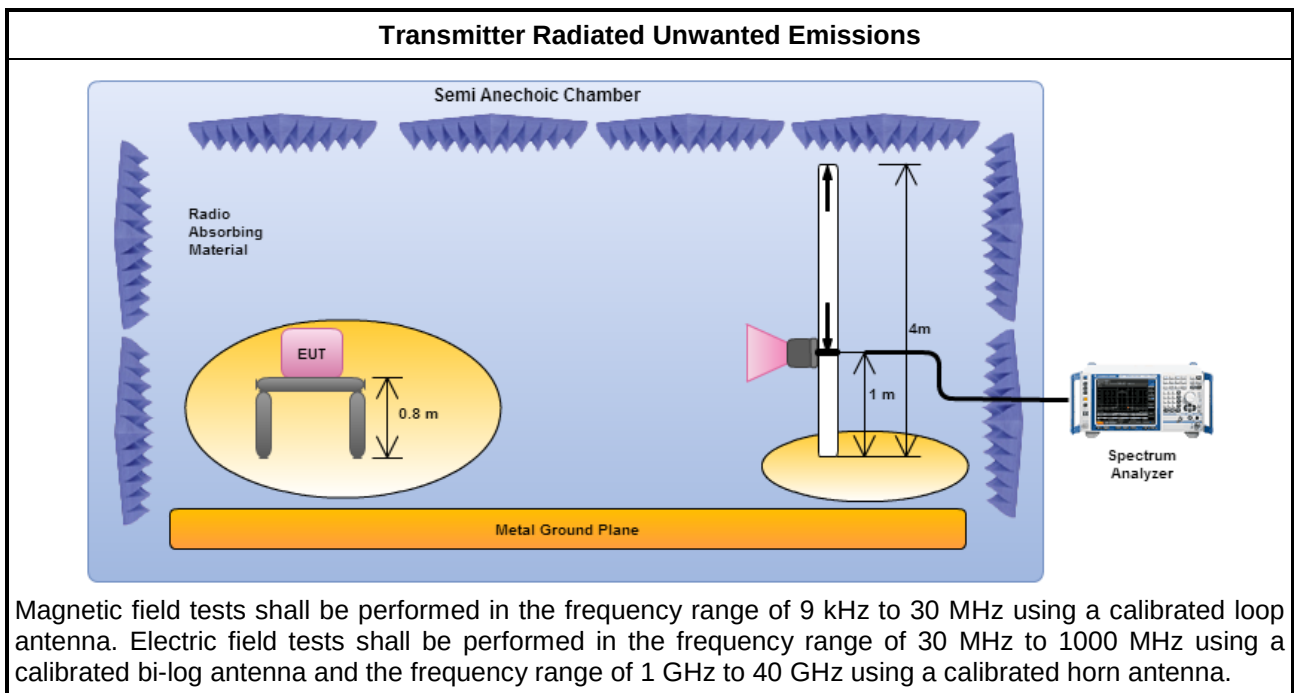
Refer a test equipment and calibration data table in this test report.

3.1.3 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).
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as FCC KDB 789033 v01r03, clause H)2) for unwanted emissions into non-restricted bands.
☒	Refer as FCC KDB 789033 v01r03, clause H)1) for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 789033 v01r03, H)6) Method AD (Trace Averaging).
☐	Refer as FCC KDB 789033 v01r03, H)6) Method VB (Reduced VBW).
☒	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
☒	Refer as FCC KDB 789033 v01r03, clause H)5) measurement procedure peak limit.
☐	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

Test Method	
☐	For conducted and cabinet radiation measurement, refer as FCC KDB 789033 v01r03, clause H)3).
☐	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
☐	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
☐	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.1.4 Test Setup



Note: The test distance is 3m.

3.1.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

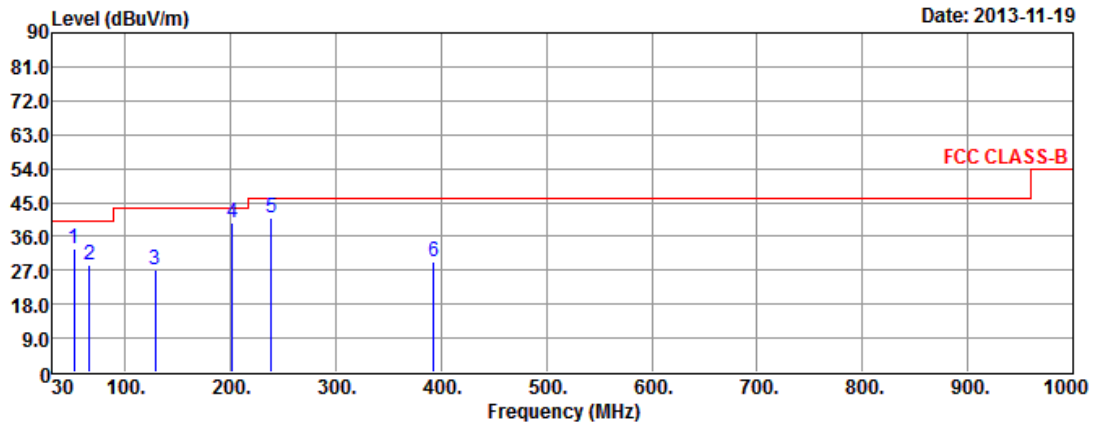
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.1.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Transmitter Radiated Unwanted Emissions (Below 1GHz)											
Operating Mode	1				Polarization				V		
Operating Function	1. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH52										
Level (dBuV/m)											

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	1. Radio link (WLAN), 802.11n HT20 with MCS 8, chain 0+1, CH52		

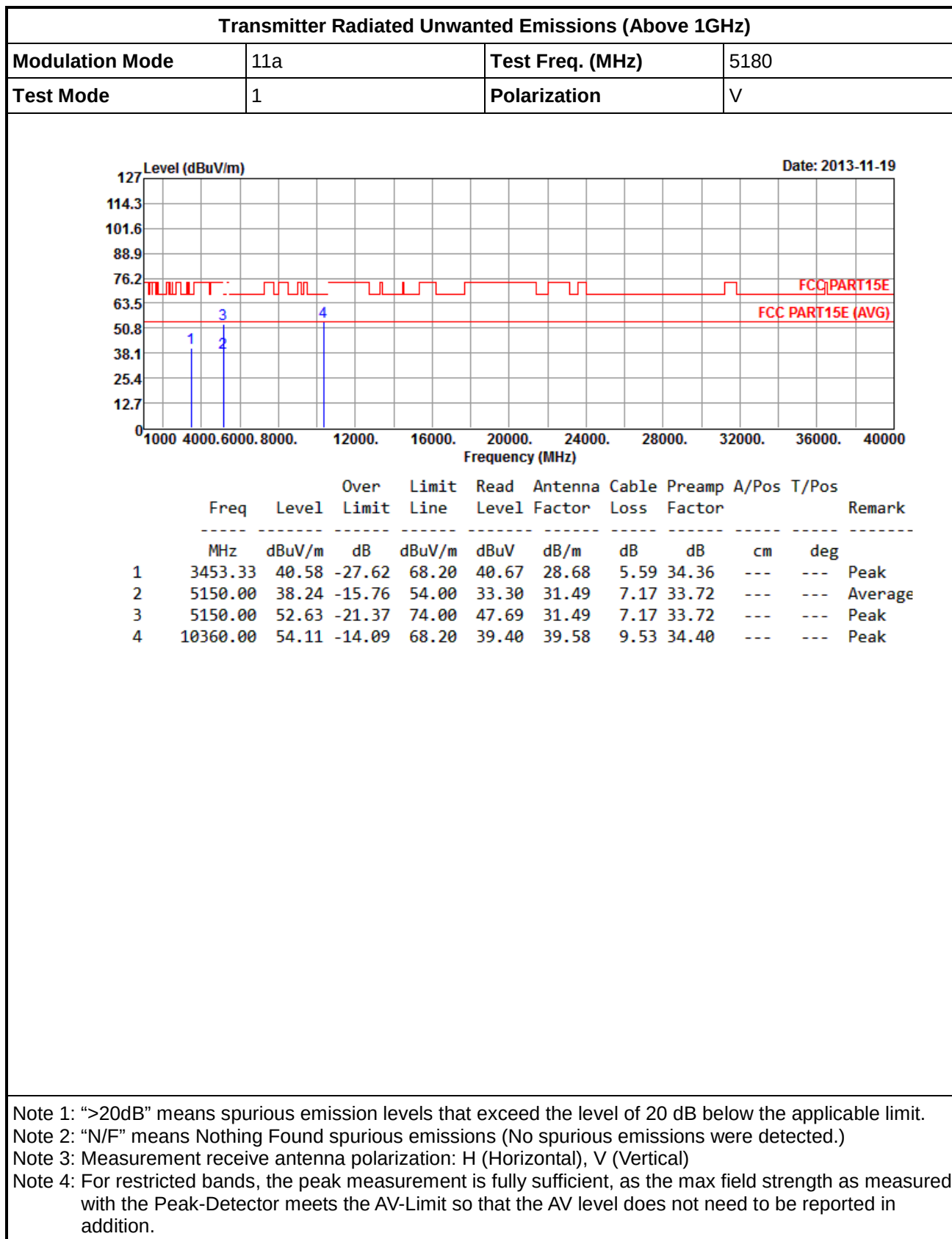


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	51.34	32.76	-7.24	40.00	49.42	14.59	0.44	31.69	---	---	Peak
2	65.89	28.56	-11.44	40.00	46.98	12.72	0.53	31.67	---	---	Peak
3	127.97	27.28	-16.22	43.50	45.62	12.50	0.67	31.51	---	---	Peak
4	201.69	39.58	-3.92	43.50	58.85	11.27	0.85	31.39	---	---	Peak
5	238.55	41.11	-4.89	46.00	59.32	12.20	0.96	31.37	---	---	Peak
6	392.78	29.28	-16.72	46.00	43.11	16.33	1.18	31.34	---	---	Peak

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

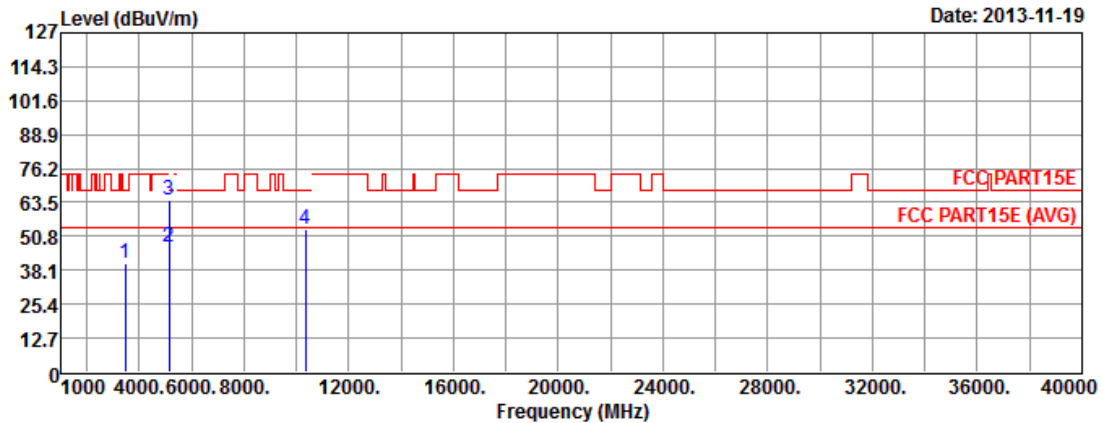
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

3.1.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a, chain 0


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5180
Test Mode	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3453.33	40.78	-27.42	68.20	40.87	28.68	5.59	34.36	---	---	Peak
2	5150.00	47.02	-6.98	54.00	42.08	31.49	7.17	33.72	---	---	Average
3	5150.00	64.39	-9.61	74.00	59.45	31.49	7.17	33.72	---	---	Peak
4	10360.00	53.74	-14.46	68.20	39.03	39.58	9.53	34.40	---	---	Peak

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

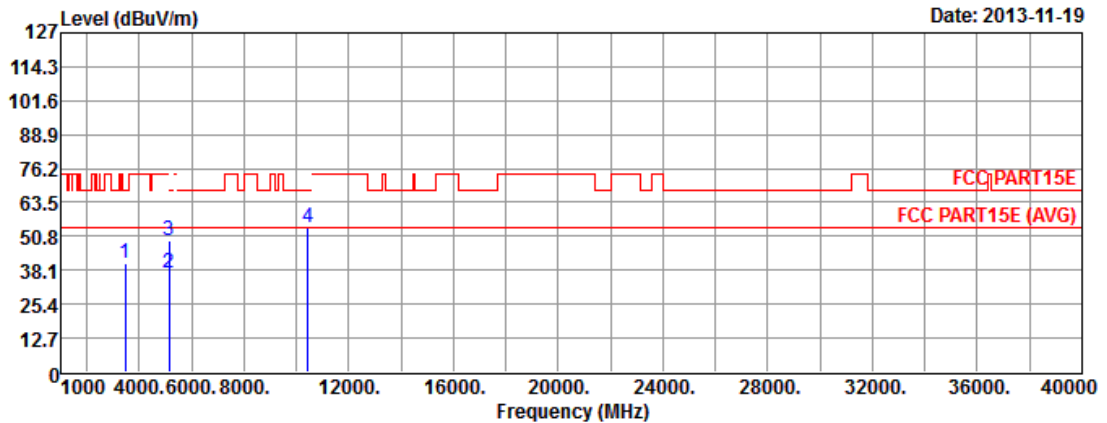
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5220
Test Mode	2	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3480.00	40.63	-27.57	68.20	40.65	28.69	5.64	34.35	---	---	Peak
2	5150.00	37.12	-16.88	54.00	32.18	31.49	7.17	33.72	---	---	Average
3	5150.00	49.29	-24.71	74.00	44.35	31.49	7.17	33.72	---	---	Peak
4	10440.00	54.25	-13.95	68.20	39.46	39.70	9.57	34.48	---	---	Peak

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

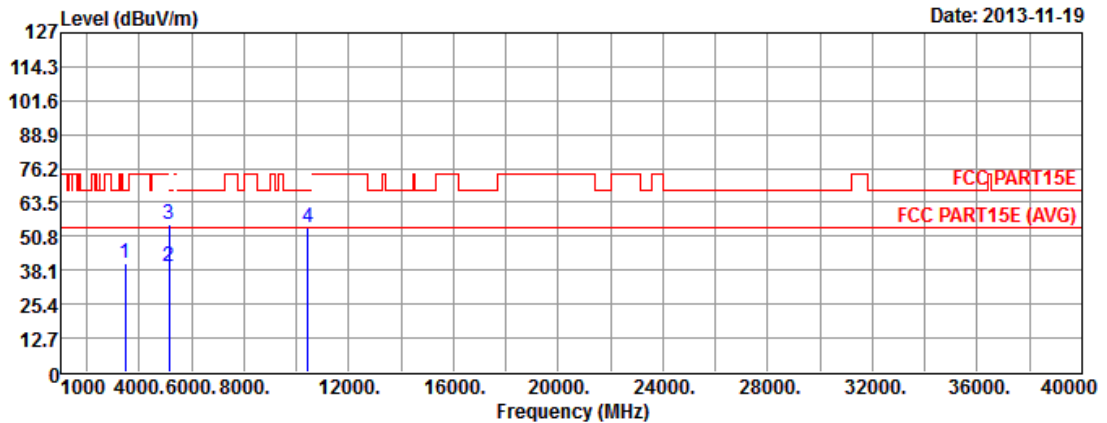
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5220
Test Mode	2	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3480.00	40.56	-27.64	68.20	40.58	28.69	5.64	34.35	---	---	Peak
2	5150.00	39.32	-14.68	54.00	34.38	31.49	7.17	33.72	---	---	Average
3	5150.00	55.35	-18.65	74.00	50.41	31.49	7.17	33.72	---	---	Peak
4	10440.00	54.13	-14.07	68.20	39.34	39.70	9.57	34.48	---	---	Peak

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

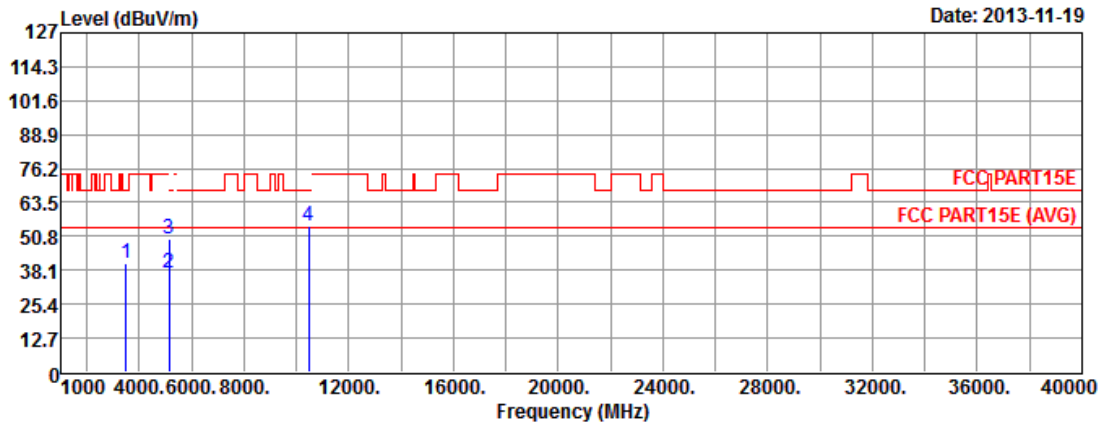
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
Test Mode	3	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3493.33	40.56	-27.64	68.20	40.53	28.70	5.67	34.34	---	---	Peak
2	5150.00	37.37	-16.63	54.00	32.43	31.49	7.17	33.72	---	---	Average
3	5150.00	49.58	-24.42	74.00	44.64	31.49	7.17	33.72	---	---	Peak
4	10480.00	54.52	-13.68	68.20	39.68	39.77	9.59	34.52	---	---	Peak

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

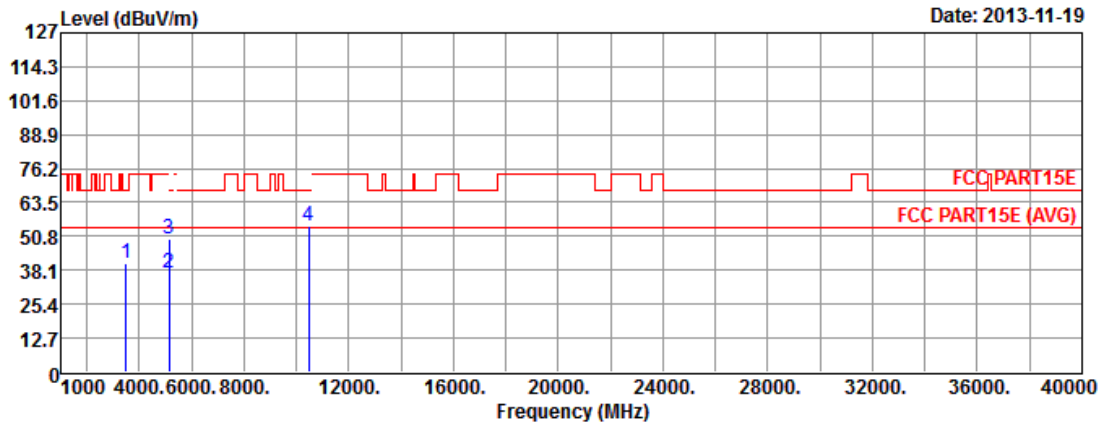
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
Test Mode	3	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3493.33	40.50	-27.70	68.20	40.47	28.70	5.67	34.34	---	---	Peak
2	5150.00	37.33	-16.67	54.00	32.39	31.49	7.17	33.72	---	---	Average
3	5150.00	49.85	-24.15	74.00	44.91	31.49	7.17	33.72	---	---	Peak
4	10480.00	54.46	-13.74	68.20	39.62	39.77	9.59	34.52	---	---	Peak

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

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

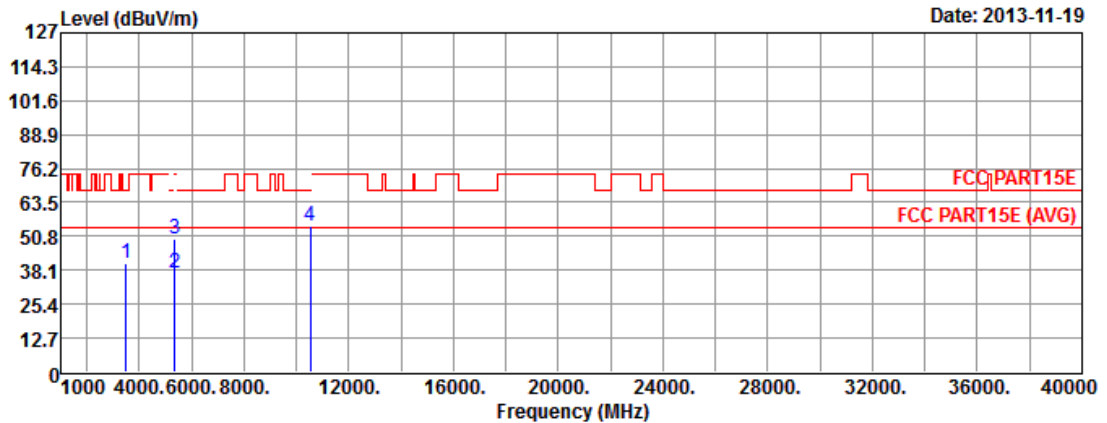
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
Test Mode	4	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3506.66	40.61	-27.59	68.20	40.55	28.71	5.69	34.34	---	---	Peak
2	5350.00	37.27	-16.73	54.00	32.18	31.61	7.20	33.72	---	---	Average
3	5350.00	49.63	-24.37	74.00	44.54	31.61	7.20	33.72	---	---	Peak
4	10520.00	54.55	-13.65	68.20	39.68	39.82	9.61	34.56	---	---	Peak

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

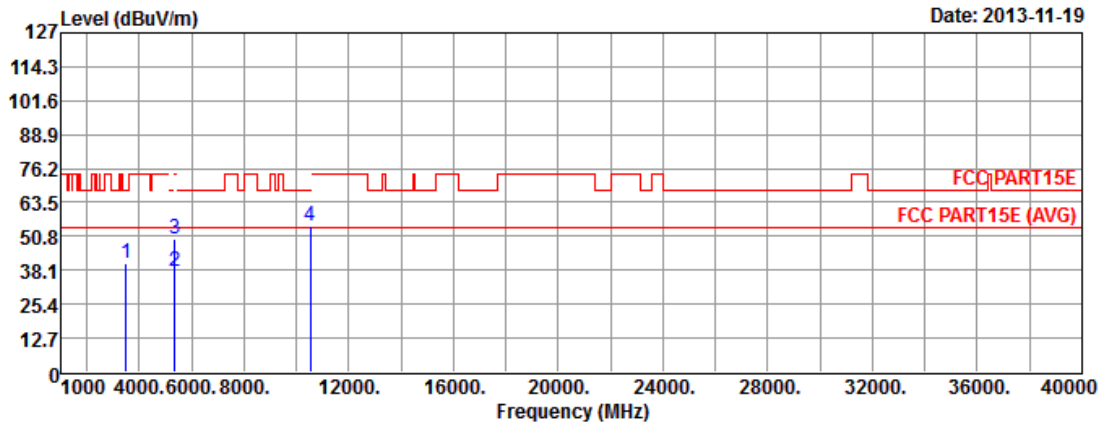
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
Test Mode	4	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3506.66	40.44	-27.76	68.20	40.38	28.71	5.69	34.34	---	---	Peak
2	5350.00	37.76	-16.24	54.00	32.67	31.61	7.20	33.72	---	---	Average
3	5350.00	49.94	-24.06	74.00	44.85	31.61	7.20	33.72	---	---	Peak
4	10520.00	54.55	-13.65	68.20	39.68	39.82	9.61	34.56	---	---	Peak

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

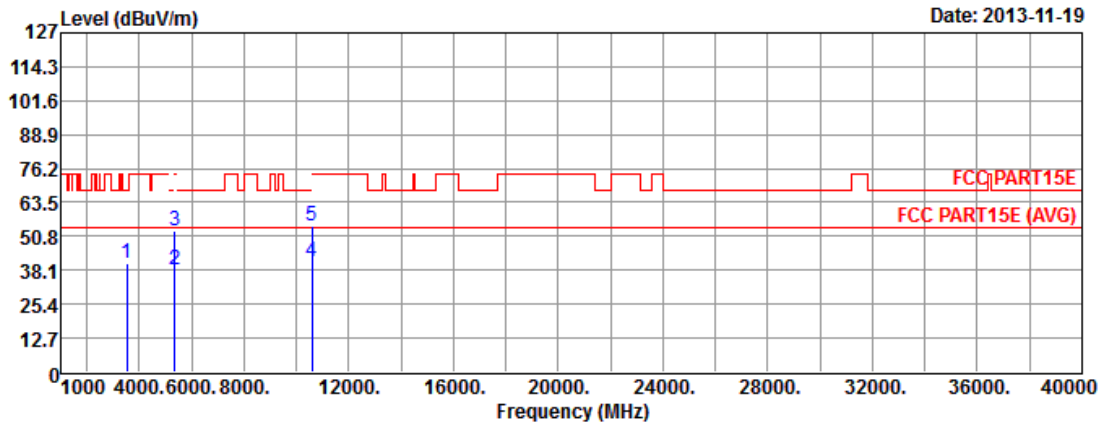
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
Test Mode	5	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3533.33	40.71	-27.49	68.20	40.53	28.77	5.74	34.33	---	---	Peak
2	5350.00	38.34	-15.66	54.00	33.25	31.61	7.20	33.72	---	---	Average
3	5350.00	52.73	-21.27	74.00	47.64	31.61	7.20	33.72	---	---	Peak
4	10600.00	41.25	-12.75	54.00	26.31	39.92	9.64	34.62	---	---	Average
5	10600.00	54.76	-19.24	74.00	39.82	39.92	9.64	34.62	---	---	Peak

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

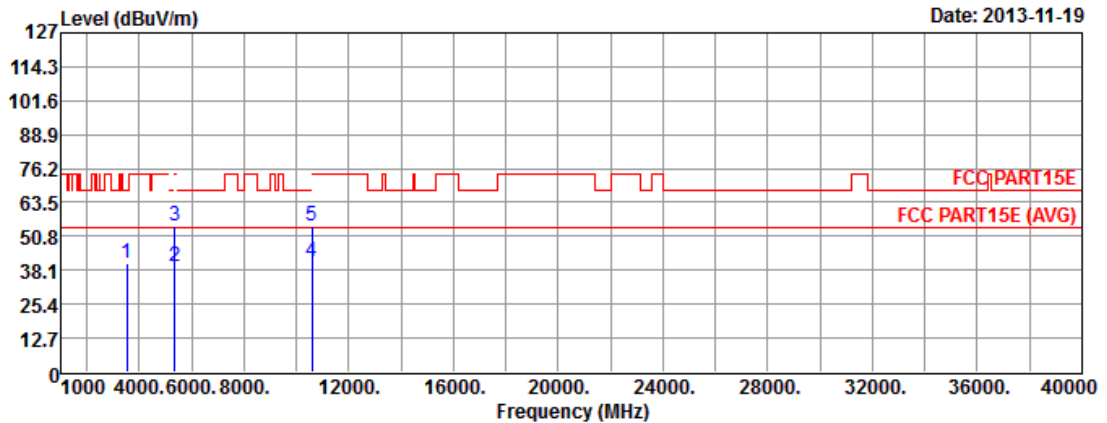
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
Test Mode	5	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3533.33	40.71	-27.49	68.20	40.53	28.77	5.74	34.33	---	---	Peak
2	5350.00	39.75	-14.25	54.00	34.66	31.61	7.20	33.72	---	---	Average
3	5350.00	54.85	-19.15	74.00	49.76	31.61	7.20	33.72	---	---	Peak
4	10600.00	41.56	-12.44	54.00	26.62	39.92	9.64	34.62	---	---	Average
5	10600.00	54.79	-19.21	74.00	39.85	39.92	9.64	34.62	---	---	Peak

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

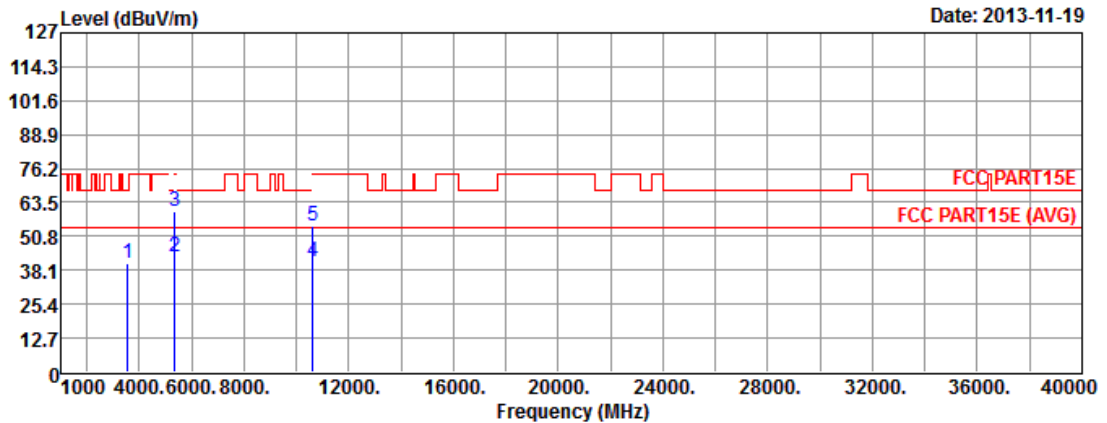
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
Test Mode	6	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3546.66	40.68	-27.52	68.20	40.44	28.79	5.77	34.32	---	---	Peak
2	5350.00	42.95	-11.05	54.00	37.86	31.61	7.20	33.72	---	---	Average
3	5350.00	60.27	-13.73	74.00	55.18	31.61	7.20	33.72	---	---	Peak
4	10640.00	41.22	-12.78	54.00	26.24	39.97	9.66	34.65	---	---	Average
5	10640.00	54.73	-19.27	74.00	39.75	39.97	9.66	34.65	---	---	Peak

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

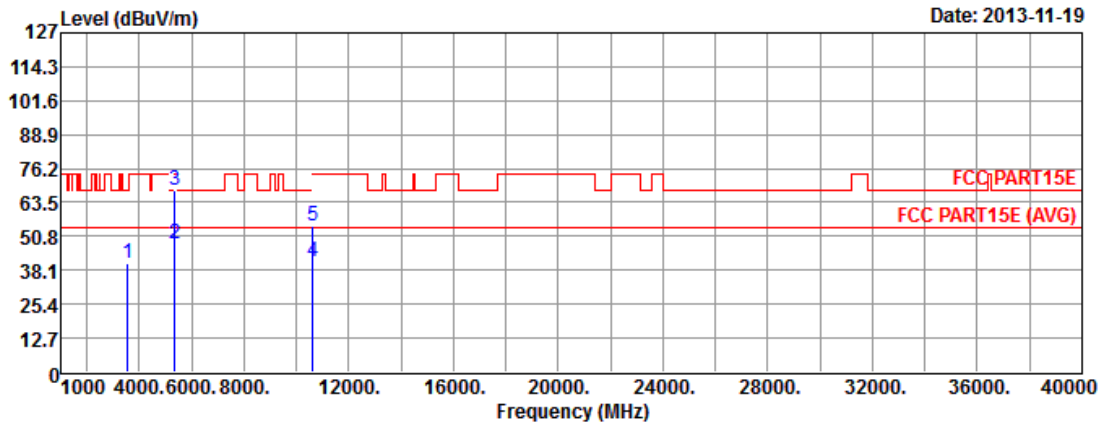
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
Test Mode	6	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3546.66	40.61	-27.59	68.20	40.37	28.79	5.77	34.32	---	---	Peak
2	5350.00	48.27	-5.73	54.00	43.18	31.61	7.20	33.72	---	---	Average
3	5350.00	68.11	-5.89	74.00	63.02	31.61	7.20	33.72	---	---	Peak
4	10640.00	41.33	-12.67	54.00	26.35	39.97	9.66	34.65	---	---	Average
5	10640.00	54.66	-19.34	74.00	39.68	39.97	9.66	34.65	---	---	Peak

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

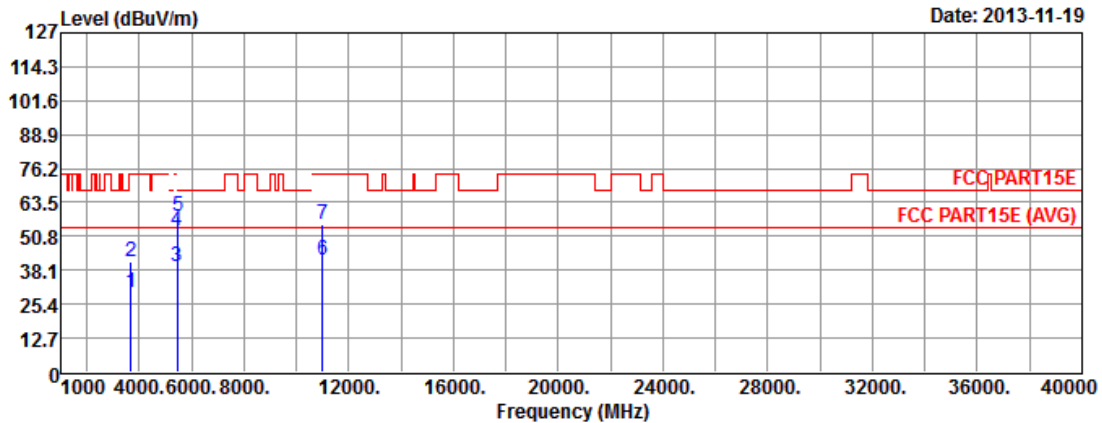
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
Test Mode	7	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3666.66	29.59	-24.41	54.00	28.91	29.03	5.93	34.28	---	---	Average
2	3666.66	41.54	-32.46	74.00	40.86	29.03	5.93	34.28	---	---	Peak
3	5460.00	39.32	-14.68	54.00	34.14	31.68	7.22	33.72	---	---	Average
4	5460.00	52.89	-21.11	74.00	47.71	31.68	7.22	33.72	---	---	Peak
5	5470.00	58.36	-9.84	68.20	53.17	31.68	7.23	33.72	---	---	Peak
6	11000.00	41.71	-12.29	54.00	26.43	40.40	9.81	34.93	---	---	Average
7	11000.00	55.03	-18.97	74.00	39.75	40.40	9.81	34.93	---	---	Peak

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

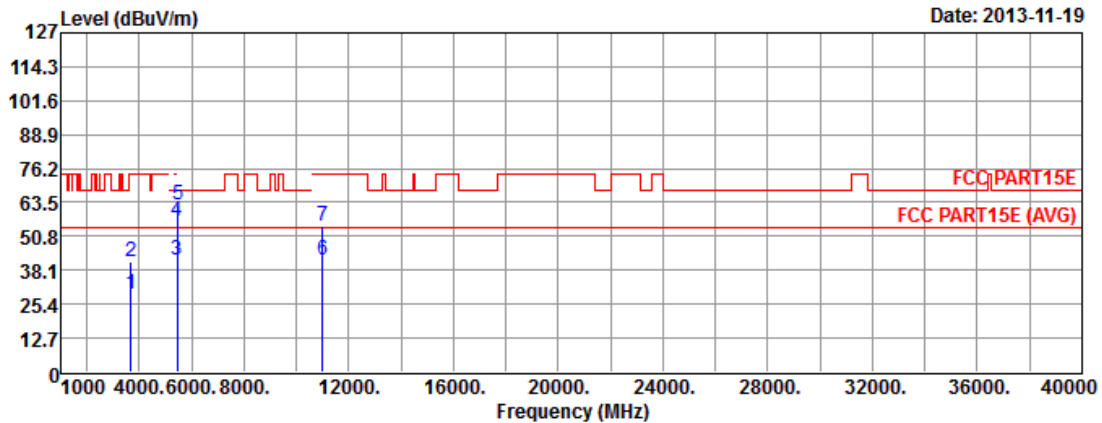
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5500
Test Mode	7	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3666.66	28.97	-25.03	54.00	28.29	29.03	5.93	34.28	---	---	Average
2	3666.66	41.29	-32.71	74.00	40.61	29.03	5.93	34.28	---	---	Peak
3	5460.00	42.18	-11.82	54.00	37.00	31.68	7.22	33.72	---	---	Average
4	5460.00	56.78	-17.22	74.00	51.60	31.68	7.22	33.72	---	---	Peak
5	5470.00	62.49	-5.71	68.20	57.30	31.68	7.23	33.72	---	---	Peak
6	11000.00	41.91	-12.09	54.00	26.63	40.40	9.81	34.93	---	---	Average
7	11000.00	54.66	-19.34	74.00	39.38	40.40	9.81	34.93	---	---	Peak

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

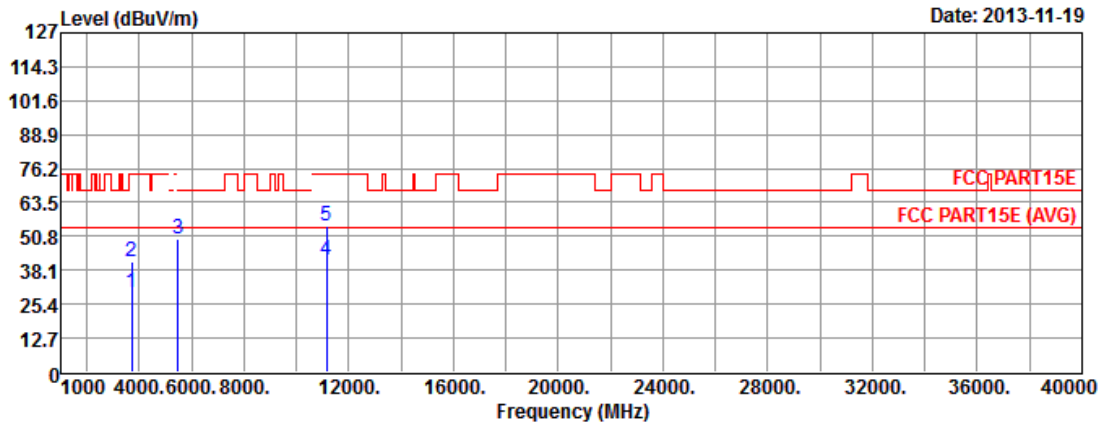
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
Test Mode	8	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3720.00	29.49	-24.51	54.00	28.65	29.14	5.97	34.27	---	---	Average
2	3720.00	41.23	-32.77	74.00	40.39	29.14	5.97	34.27	---	---	Peak
3	5470.00	49.77	-18.43	68.20	44.58	31.68	7.23	33.72	---	---	Peak
4	11160.00	41.66	-12.34	54.00	26.48	40.24	9.94	35.00	---	---	Average
5	11160.00	54.89	-19.11	74.00	39.71	40.24	9.94	35.00	---	---	Peak

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

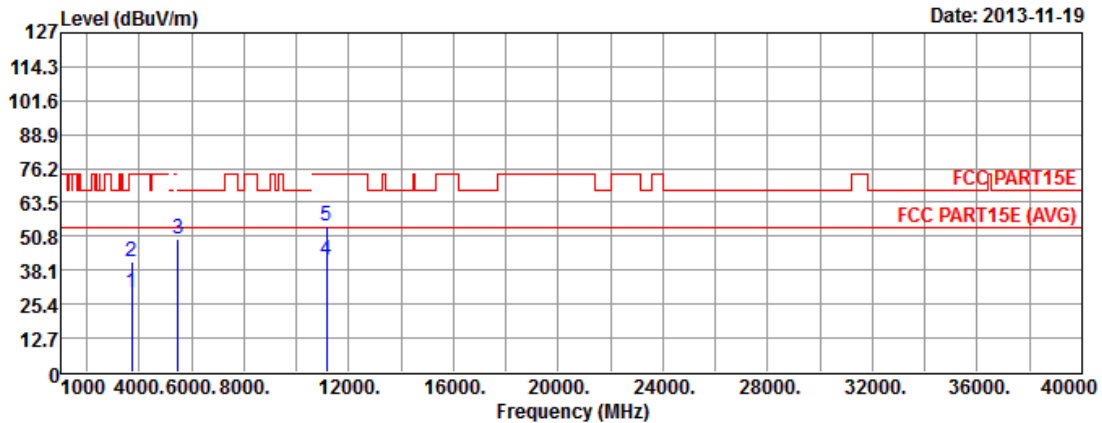
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
Test Mode	8	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3720.00	29.51	-24.49	54.00	28.67	29.14	5.97	34.27	---	---	Average
2	3720.00	41.23	-32.77	74.00	40.39	29.14	5.97	34.27	---	---	Peak
3	5470.00	50.04	-18.16	68.20	44.85	31.68	7.23	33.72	---	---	Peak
4	11160.00	41.66	-12.34	54.00	26.48	40.24	9.94	35.00	---	---	Average
5	11160.00	54.84	-19.16	74.00	39.66	40.24	9.94	35.00	---	---	Peak

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

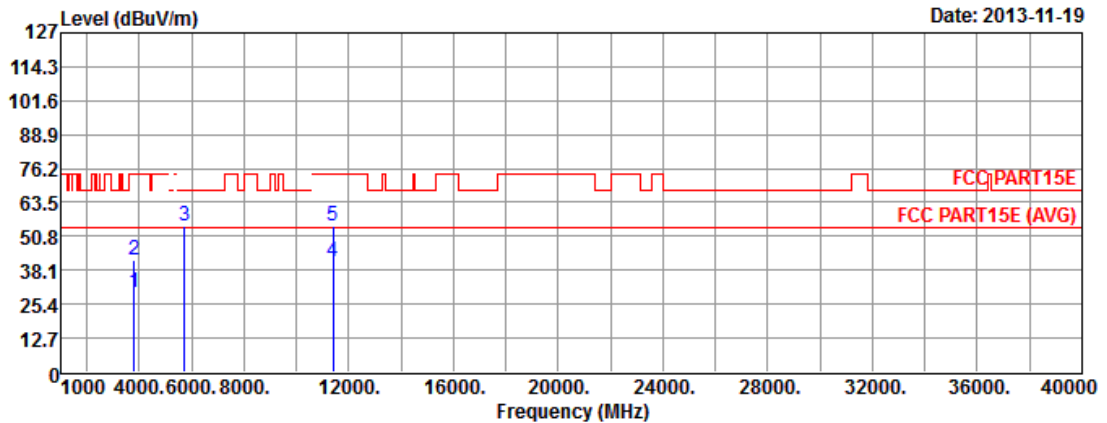
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
Test Mode	9	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	29.52	-24.48	54.00	28.42	29.30	6.04	34.24	---	---	Average
2	3800.00	41.69	-32.31	74.00	40.59	29.30	6.04	34.24	---	---	Peak
3	5725.00	54.94	-13.26	68.20	49.38	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.45	-12.55	54.00	26.42	40.00	10.13	35.10	---	---	Average
5	11400.00	54.60	-19.40	74.00	39.57	40.00	10.13	35.10	---	---	Peak

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

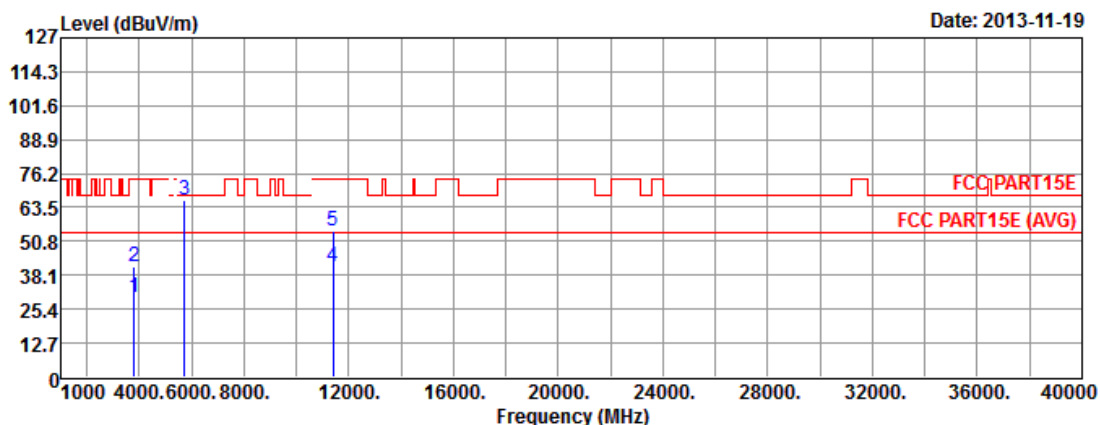
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
Test Mode	9	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	29.79	-24.21	54.00	28.69	29.30	6.04	34.24	---	---	Average
2	3800.00	41.47	-32.53	74.00	40.37	29.30	6.04	34.24	---	---	Peak
3	5725.00	66.31	-1.89	68.20	60.75	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.47	-12.53	54.00	26.44	40.00	10.13	35.10	---	---	Average
5	11400.00	54.85	-19.15	74.00	39.82	40.00	10.13	35.10	---	---	Peak

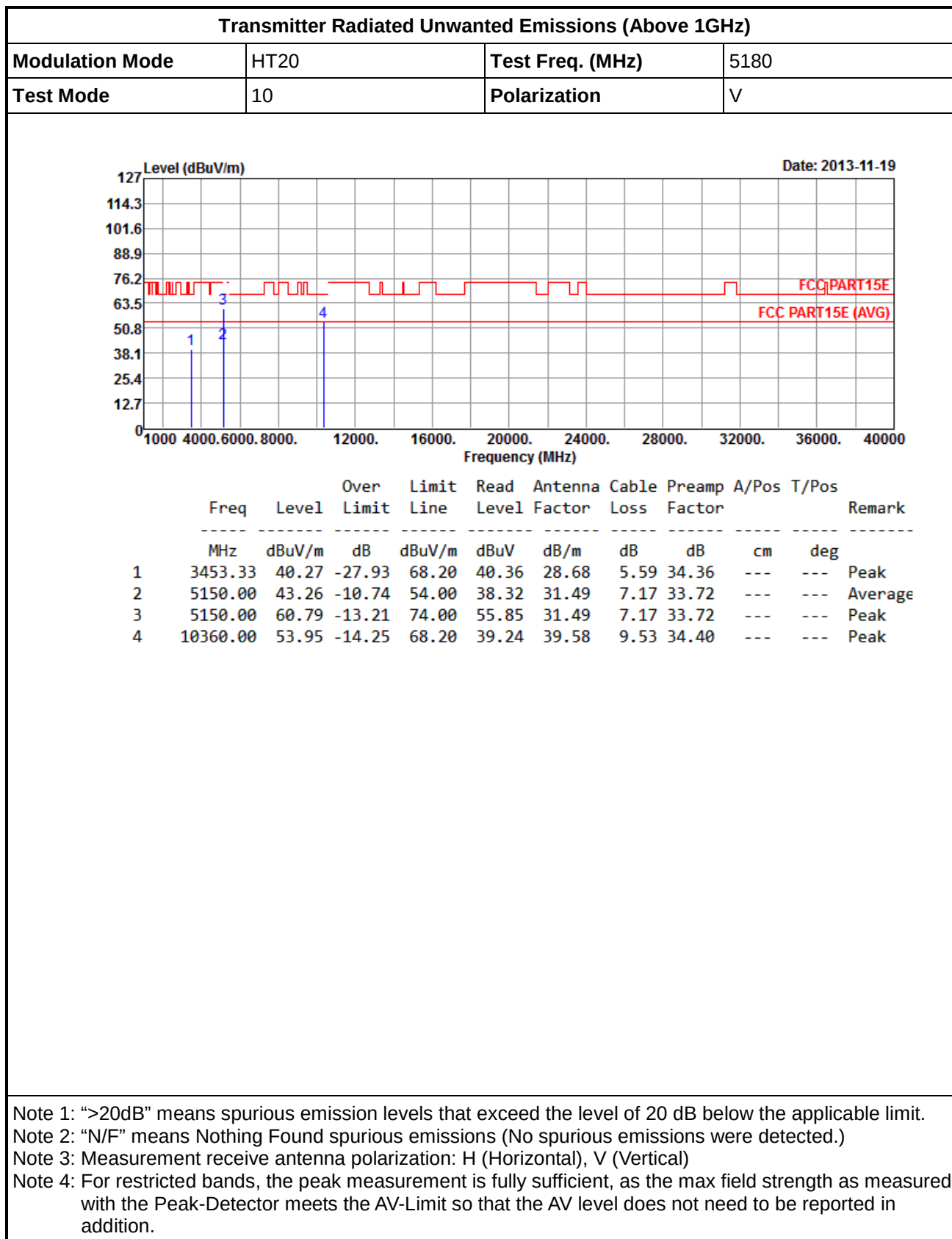
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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

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

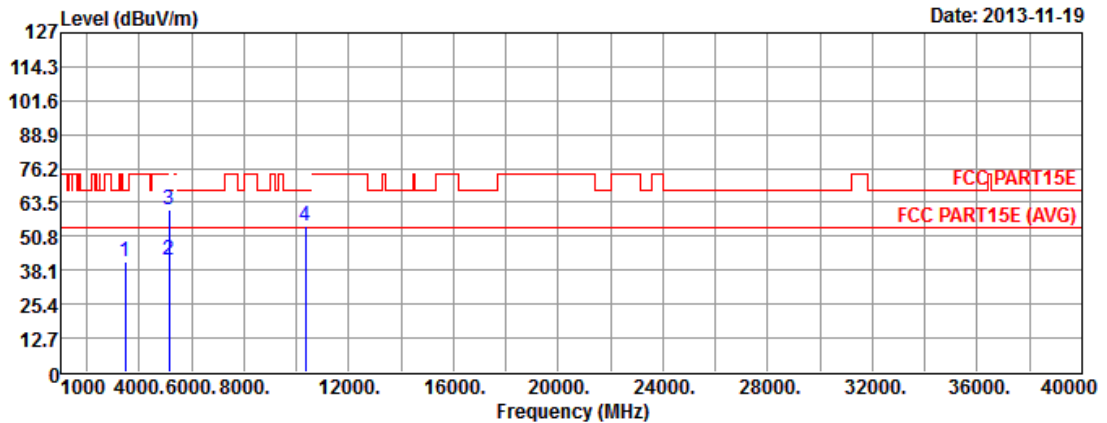
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5180
Test Mode	10	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3453.33	41.61	-26.59	68.20	41.70	28.68	5.59	34.36	---	---	Peak
2	5150.00	41.82	-12.18	54.00	36.88	31.49	7.17	33.72	---	---	Average
3	5150.00	60.57	-13.43	74.00	55.63	31.49	7.17	33.72	---	---	Peak
4	10360.00	54.59	-13.61	68.20	39.88	39.58	9.53	34.40	---	---	Peak

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

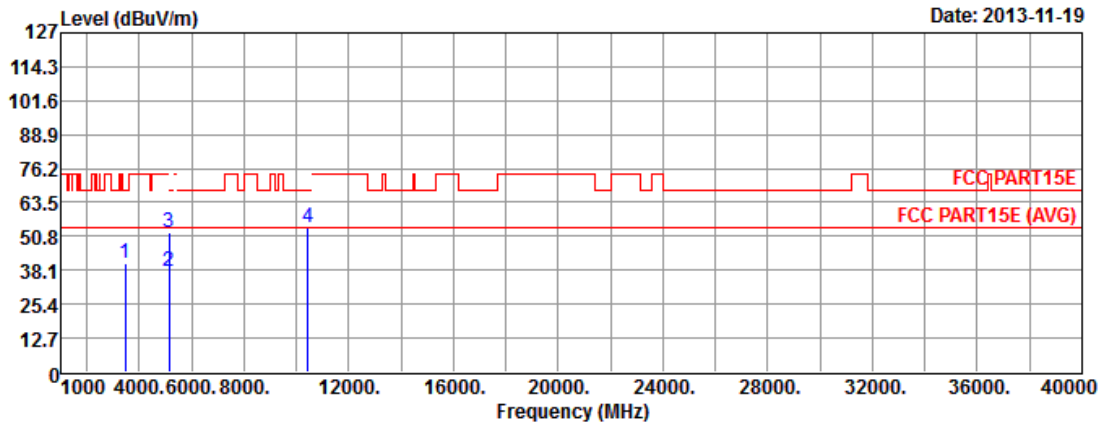
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5220
Test Mode	11	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3480.00	40.75	-27.45	68.20	40.77	28.69	5.64	34.35	---	---	Peak
2	5150.00	37.70	-16.30	54.00	32.76	31.49	7.17	33.72	---	---	Average
3	5150.00	52.45	-21.55	74.00	47.51	31.49	7.17	33.72	---	---	Peak
4	10440.00	54.27	-13.93	68.20	39.48	39.70	9.57	34.48	---	---	Peak

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

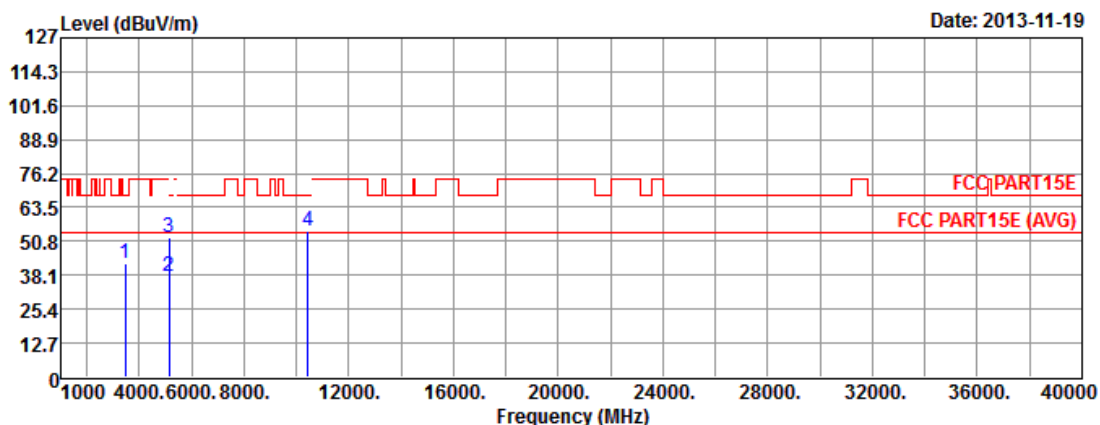
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5220
Test Mode	11	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3480.00	42.49	-25.71	68.20	42.51	28.69	5.64	34.35	---	---	Peak
2	5150.00	37.42	-16.58	54.00	32.48	31.49	7.17	33.72	---	---	Average
3	5150.00	52.27	-21.73	74.00	47.33	31.49	7.17	33.72	---	---	Peak
4	10440.00	54.55	-13.65	68.20	39.76	39.70	9.57	34.48	---	---	Peak

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

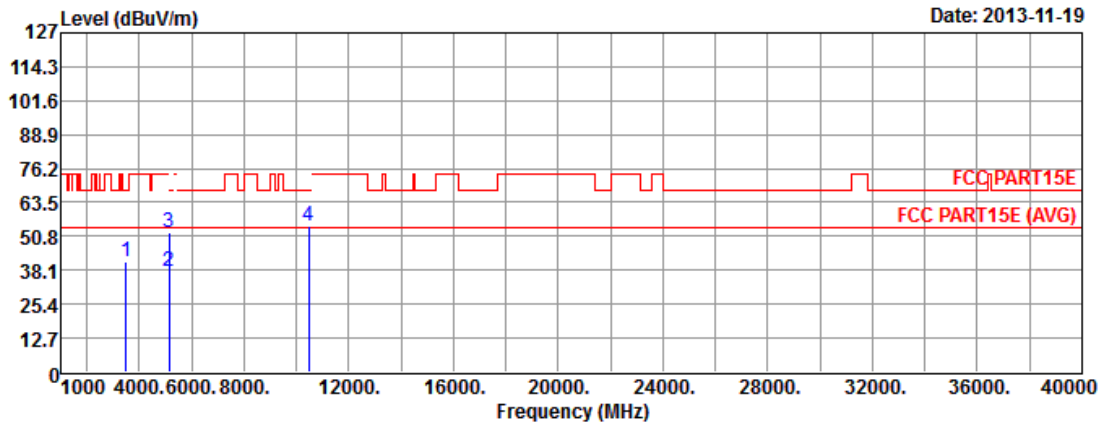
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
Test Mode	12	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3493.33	41.27	-26.93	68.20	41.24	28.70	5.67	34.34	---	---	Peak
2	5150.00	37.82	-16.18	54.00	32.88	31.49	7.17	33.72	---	---	Average
3	5150.00	52.42	-21.58	74.00	47.48	31.49	7.17	33.72	---	---	Peak
4	10480.00	54.47	-13.73	68.20	39.63	39.77	9.59	34.52	---	---	Peak

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

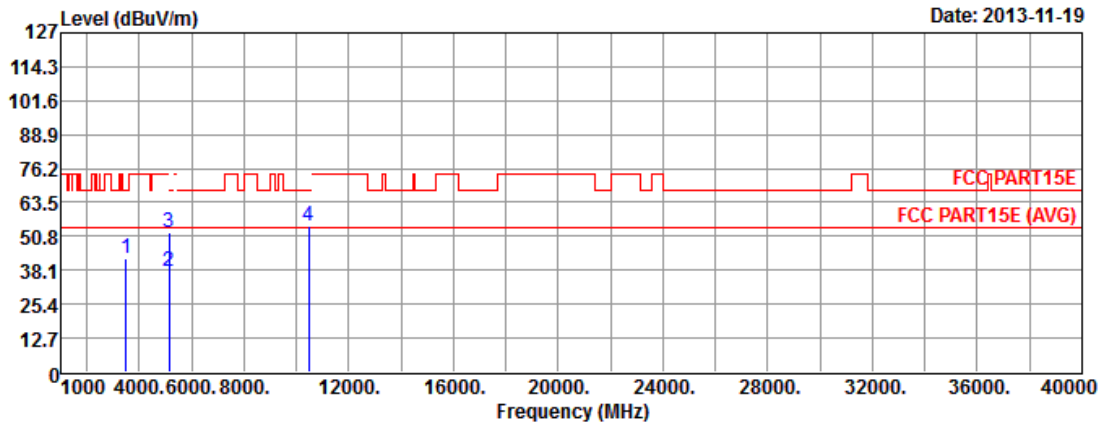
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5240
Test Mode	12	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3493.33	42.67	-25.53	68.20	42.64	28.70	5.67	34.34	---	---	Peak
2	5150.00	37.58	-16.42	54.00	32.64	31.49	7.17	33.72	---	---	Average
3	5150.00	52.22	-21.78	74.00	47.28	31.49	7.17	33.72	---	---	Peak
4	10480.00	54.66	-13.54	68.20	39.82	39.77	9.59	34.52	---	---	Peak

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

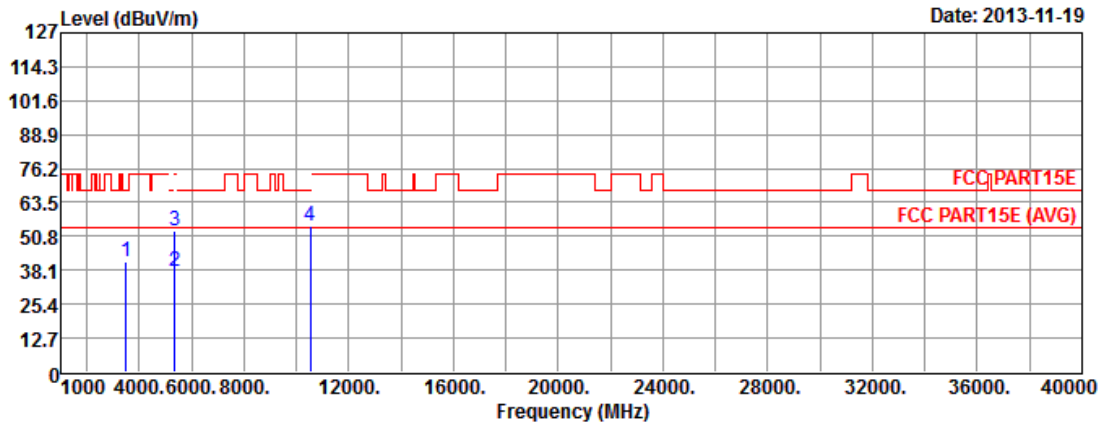
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
Test Mode	13	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3506.66	41.55	-26.65	68.20	41.49	28.71	5.69	34.34	---	---	Peak
2	5350.00	37.57	-16.43	54.00	32.48	31.61	7.20	33.72	---	---	Average
3	5350.00	52.66	-21.34	74.00	47.57	31.61	7.20	33.72	---	---	Peak
4	10520.00	54.64	-13.56	68.20	39.77	39.82	9.61	34.56	---	---	Peak

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

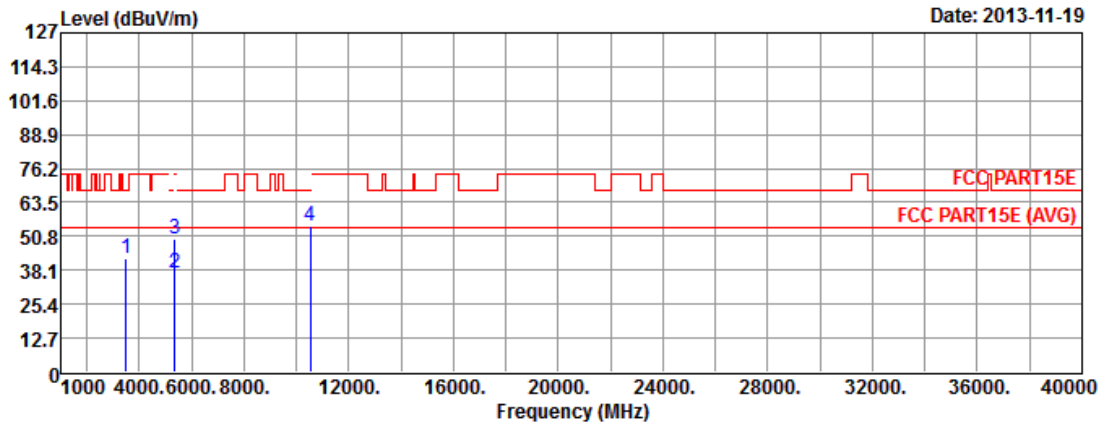
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5260
Test Mode	13	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3506.66	42.51	-25.69	68.20	42.45	28.71	5.69	34.34	---	---	Peak
2	5350.00	37.25	-16.75	54.00	32.16	31.61	7.20	33.72	---	---	Average
3	5350.00	49.94	-24.06	74.00	44.85	31.61	7.20	33.72	---	---	Peak
4	10520.00	54.45	-13.75	68.20	39.58	39.82	9.61	34.56	---	---	Peak

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

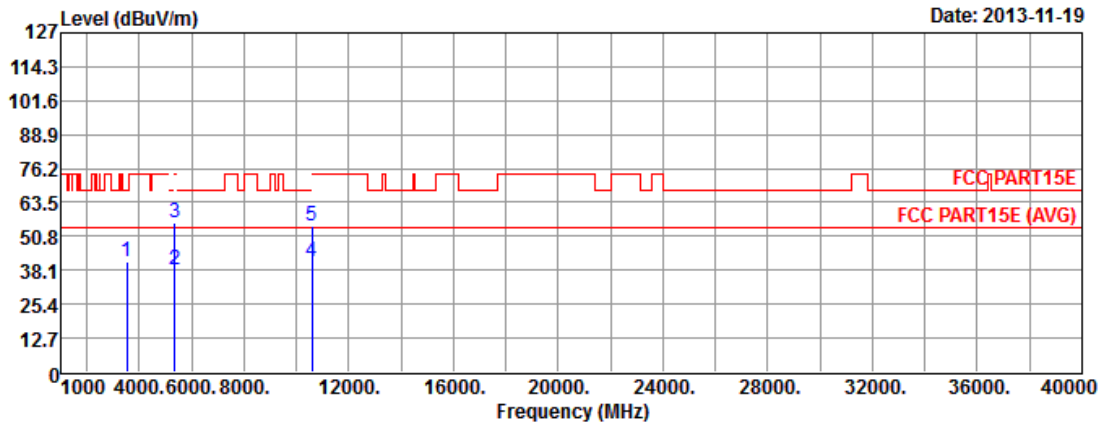
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
Test Mode	14	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3533.33	41.60	-26.60	68.20	41.42	28.77	5.74	34.33	---	---	Peak
2	5350.00	38.57	-15.43	54.00	33.48	31.61	7.20	33.72	---	---	Average
3	5350.00	56.06	-17.94	74.00	50.97	31.61	7.20	33.72	---	---	Peak
4	10600.00	41.45	-12.55	54.00	26.51	39.92	9.64	34.62	---	---	Average
5	10600.00	54.56	-19.44	74.00	39.62	39.92	9.64	34.62	---	---	Peak

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

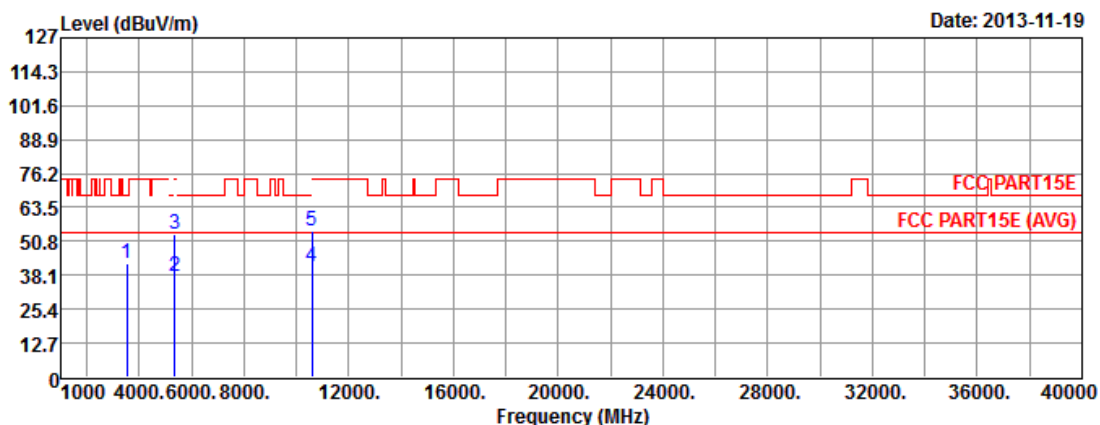
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5300
Test Mode	14	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3533.33	42.62	-25.58	68.20	42.44	28.77	5.74	34.33	---	---	Peak
2	5350.00	37.60	-16.40	54.00	32.51	31.61	7.20	33.72	---	---	Average
3	5350.00	53.77	-20.23	74.00	48.68	31.61	7.20	33.72	---	---	Peak
4	10600.00	41.33	-12.67	54.00	26.39	39.92	9.64	34.62	---	---	Average
5	10600.00	54.60	-19.40	74.00	39.66	39.92	9.64	34.62	---	---	Peak

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

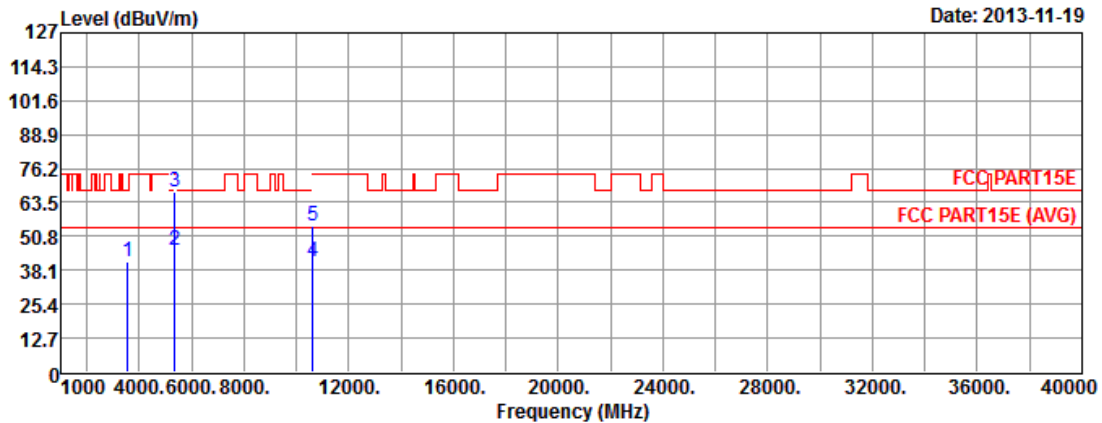
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
Test Mode	15	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3546.66	41.48	-26.72	68.20	41.24	28.79	5.77	34.32	---	---	Peak
2	5350.00	45.88	-8.12	54.00	40.79	31.61	7.20	33.72	---	---	Average
3	5350.00	67.33	-6.67	74.00	62.24	31.61	7.20	33.72	---	---	Peak
4	10640.00	41.61	-12.39	54.00	26.63	39.97	9.66	34.65	---	---	Average
5	10640.00	54.42	-19.58	74.00	39.44	39.97	9.66	34.65	---	---	Peak

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

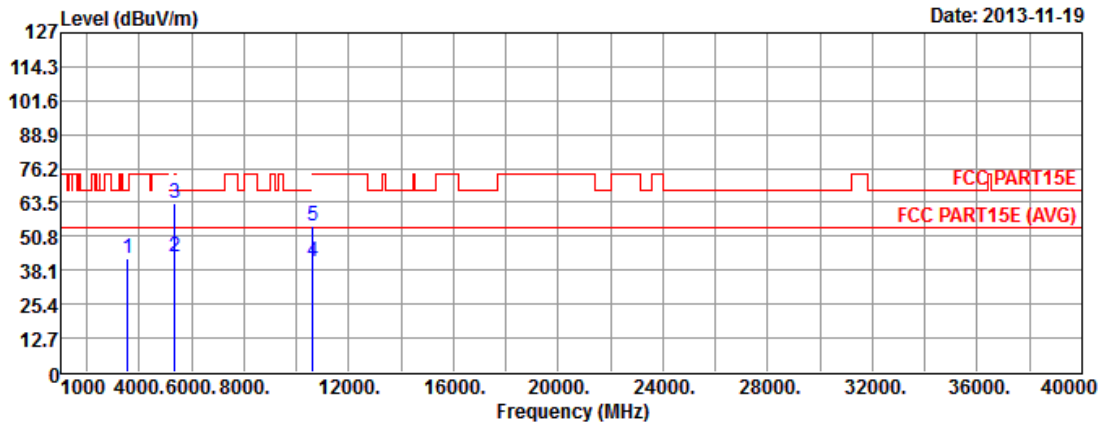
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5320
Test Mode	15	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3546.66	42.52	-25.68	68.20	42.28	28.79	5.77	34.32	---	---	Peak
2	5350.00	42.87	-11.13	54.00	37.78	31.61	7.20	33.72	---	---	Average
3	5350.00	63.34	-10.66	74.00	58.25	31.61	7.20	33.72	---	---	Peak
4	10640.00	41.24	-12.76	54.00	26.26	39.97	9.66	34.65	---	---	Average
5	10640.00	54.80	-19.20	74.00	39.82	39.97	9.66	34.65	---	---	Peak

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

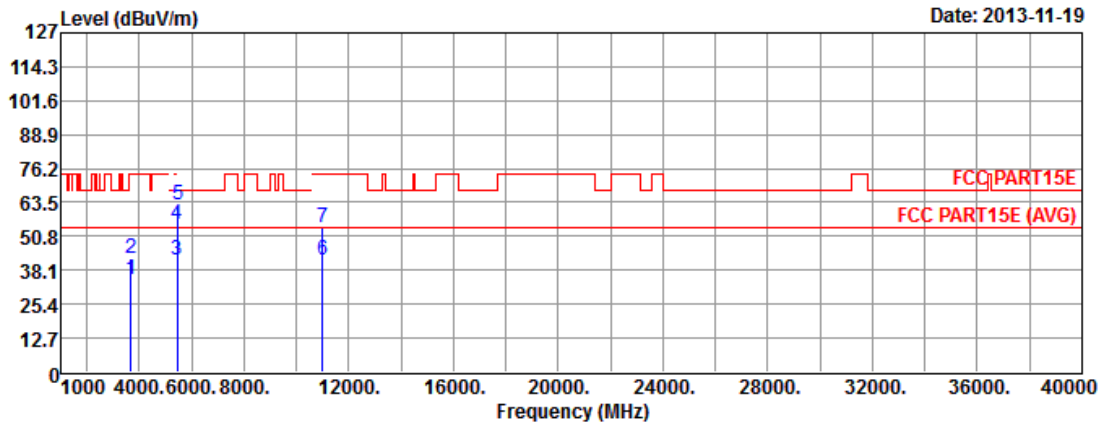
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
Test Mode	16	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3666.66	34.53	-19.47	54.00	33.85	29.03	5.93	34.28	---	---	Average
2	3666.66	42.33	-31.67	74.00	41.65	29.03	5.93	34.28	---	---	Peak
3	5460.00	42.19	-11.81	54.00	37.01	31.68	7.22	33.72	---	---	Average
4	5460.00	55.29	-18.71	74.00	50.11	31.68	7.22	33.72	---	---	Peak
5	5470.00	62.29	-5.91	68.20	57.10	31.68	7.23	33.72	---	---	Peak
6	11000.00	42.01	-11.99	54.00	26.73	40.40	9.81	34.93	---	---	Average
7	11000.00	54.14	-19.86	74.00	38.86	40.40	9.81	34.93	---	---	Peak

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

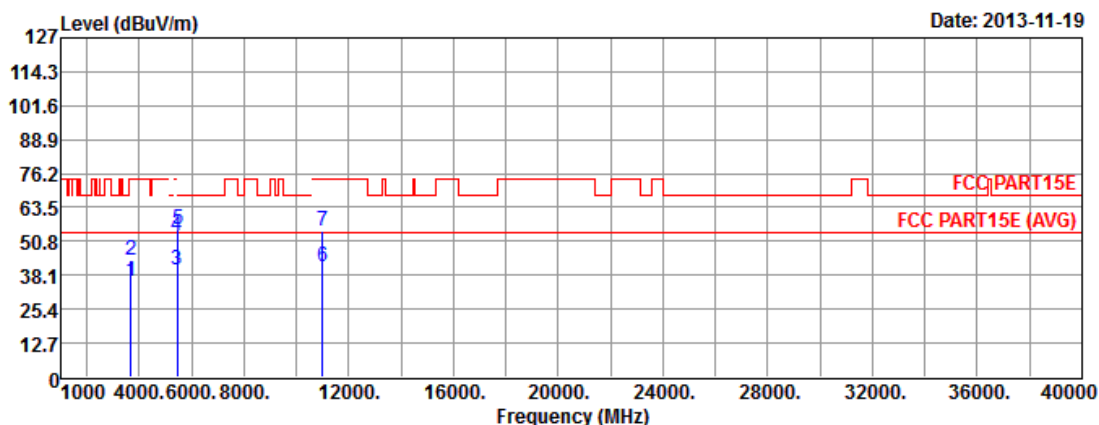
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
Test Mode	16	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3666.66	35.57	-18.43	54.00	34.89	29.03	5.93	34.28	---	---	Average
2	3666.66	43.46	-30.54	74.00	42.78	29.03	5.93	34.28	---	---	Peak
3	5460.00	39.87	-14.13	54.00	34.69	31.68	7.22	33.72	---	---	Average
4	5460.00	53.08	-20.92	74.00	47.90	31.68	7.22	33.72	---	---	Peak
5	5470.00	55.04	-13.16	68.20	49.85	31.68	7.23	33.72	---	---	Peak
6	11000.00	41.53	-12.47	54.00	26.25	40.40	9.81	34.93	---	---	Average
7	11000.00	54.73	-19.27	74.00	39.45	40.40	9.81	34.93	---	---	Peak

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

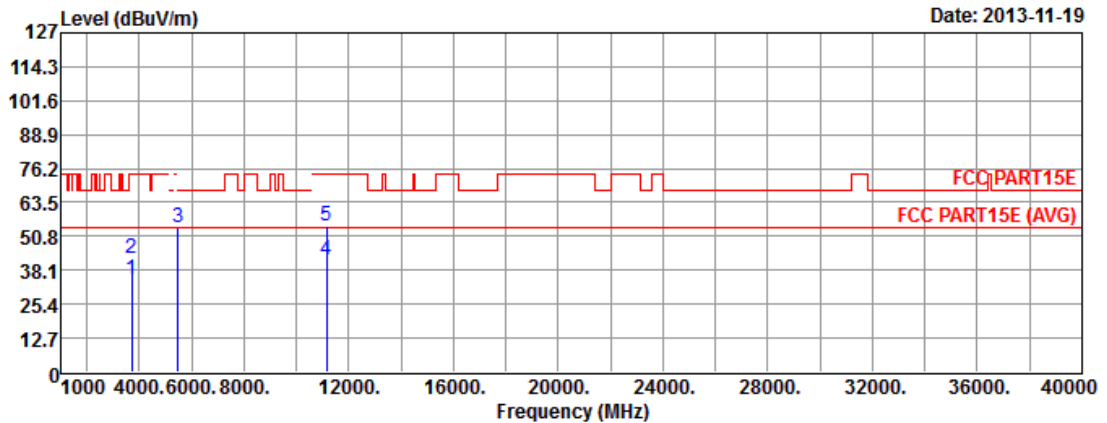
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Test Mode	17	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3720.00	34.67	-19.33	54.00	33.83	29.14	5.97	34.27	---	---	Average
2	3720.00	42.52	-31.48	74.00	41.68	29.14	5.97	34.27	---	---	Peak
3	5470.00	53.85	-14.35	68.20	48.66	31.68	7.23	33.72	---	---	Peak
4	11160.00	41.66	-12.34	54.00	26.48	40.24	9.94	35.00	---	---	Average
5	11160.00	54.62	-19.38	74.00	39.44	40.24	9.94	35.00	---	---	Peak

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

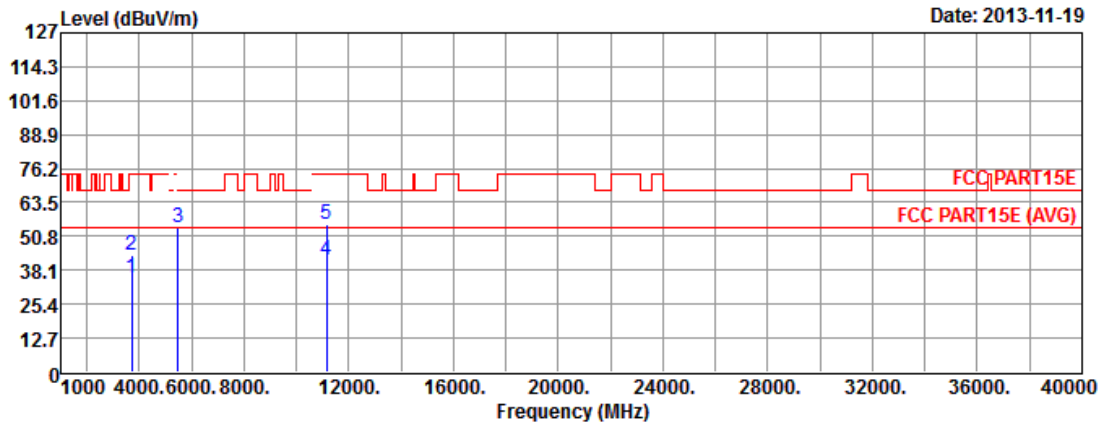
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5580
Test Mode	17	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3720.00	35.43	-18.57	54.00	34.59	29.14	5.97	34.27	---	---	Average
2	3720.00	43.64	-30.36	74.00	42.80	29.14	5.97	34.27	---	---	Peak
3	5470.00	54.01	-14.19	68.20	48.82	31.68	7.23	33.72	---	---	Peak
4	11160.00	41.63	-12.37	54.00	26.45	40.24	9.94	35.00	---	---	Average
5	11160.00	55.04	-18.96	74.00	39.86	40.24	9.94	35.00	---	---	Peak

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

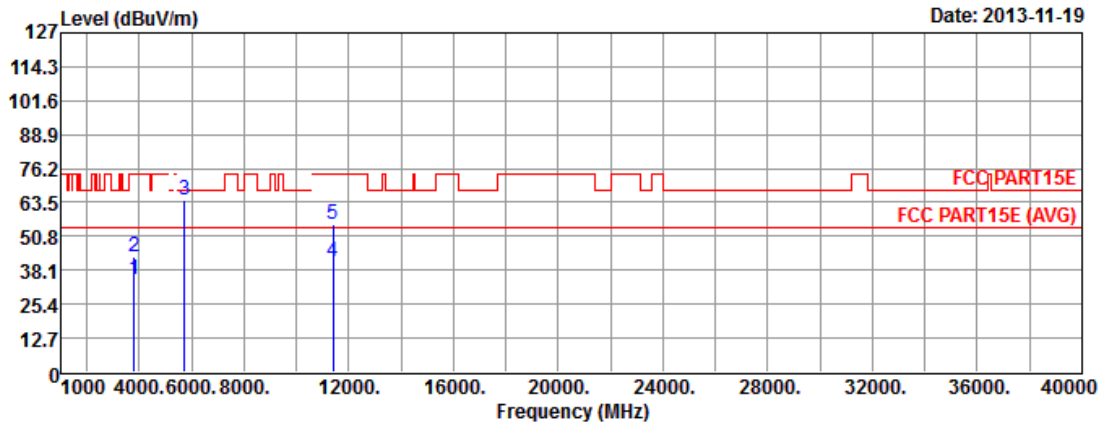
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
Test Mode	18	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	34.69	-19.31	54.00	33.59	29.30	6.04	34.24	---	---	Average
2	3800.00	42.85	-31.15	74.00	41.75	29.30	6.04	34.24	---	---	Peak
3	5725.00	64.43	-3.77	68.20	58.87	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.60	-12.40	54.00	26.57	40.00	10.13	35.10	---	---	Average
5	11400.00	55.41	-18.59	74.00	40.38	40.00	10.13	35.10	---	---	Peak

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

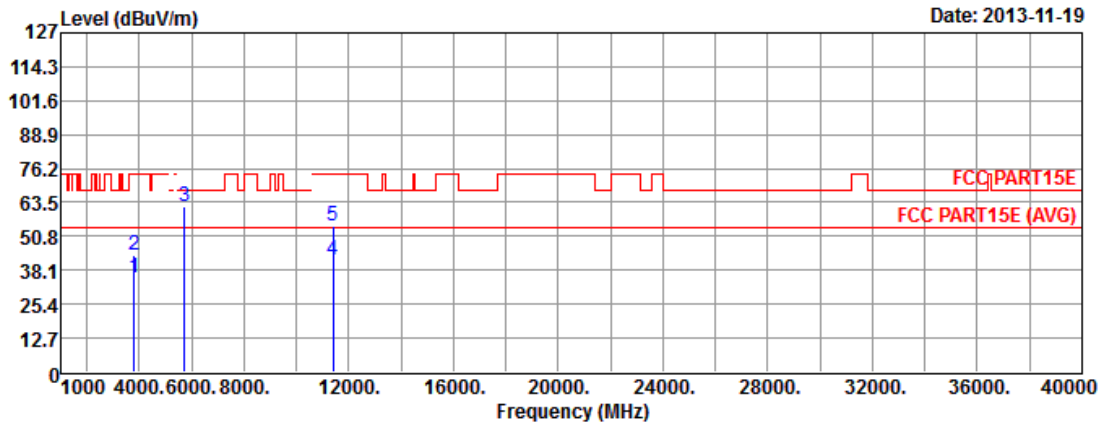
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5700
Test Mode	18	Polarization	H



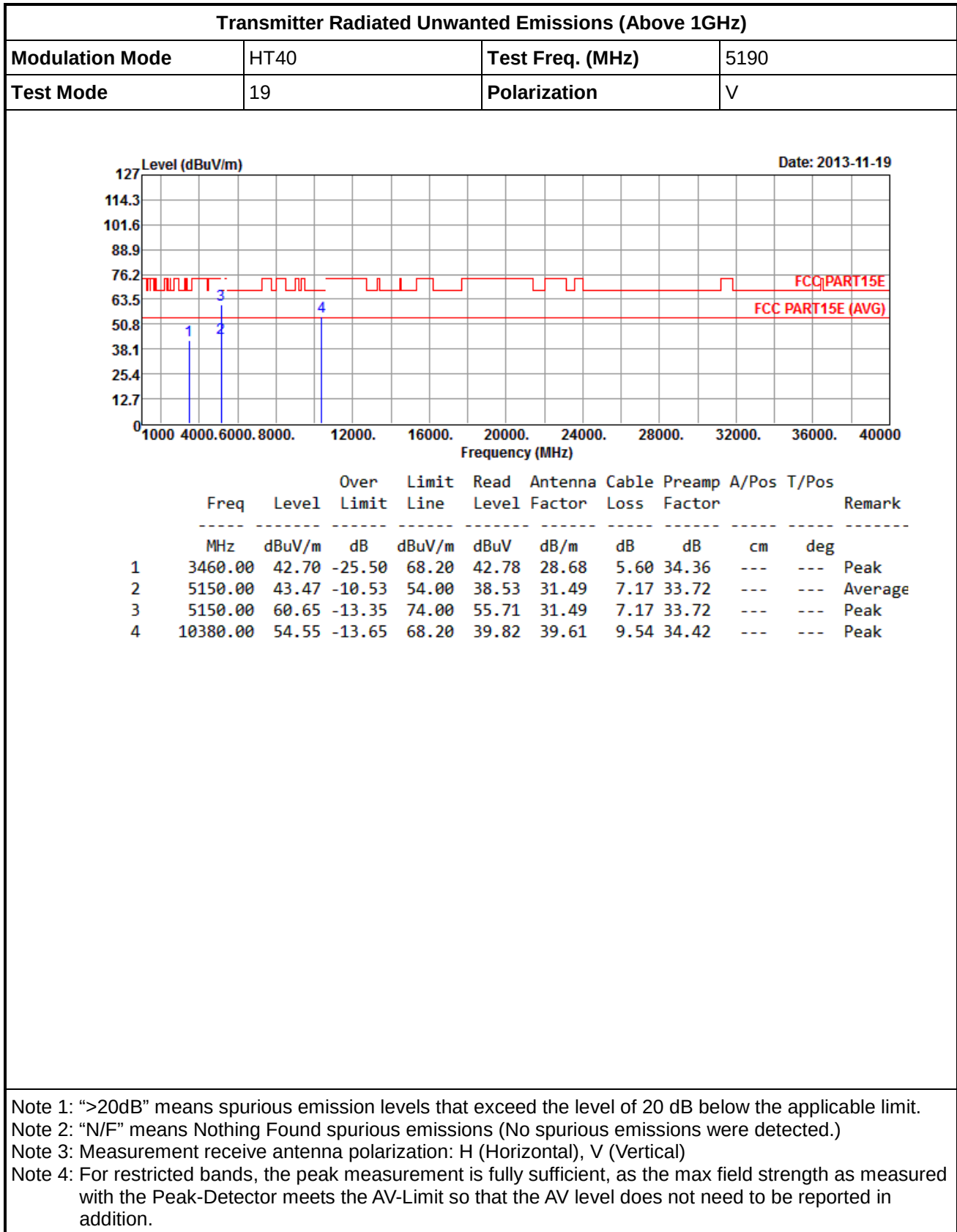
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	35.52	-18.48	54.00	34.42	29.30	6.04	34.24	---	---	Average
2	3800.00	43.89	-30.11	74.00	42.79	29.30	6.04	34.24	---	---	Peak
3	5725.00	62.26	-5.94	68.20	56.70	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.70	-12.30	54.00	26.67	40.00	10.13	35.10	---	---	Average
5	11400.00	54.75	-19.25	74.00	39.72	40.00	10.13	35.10	---	---	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.)

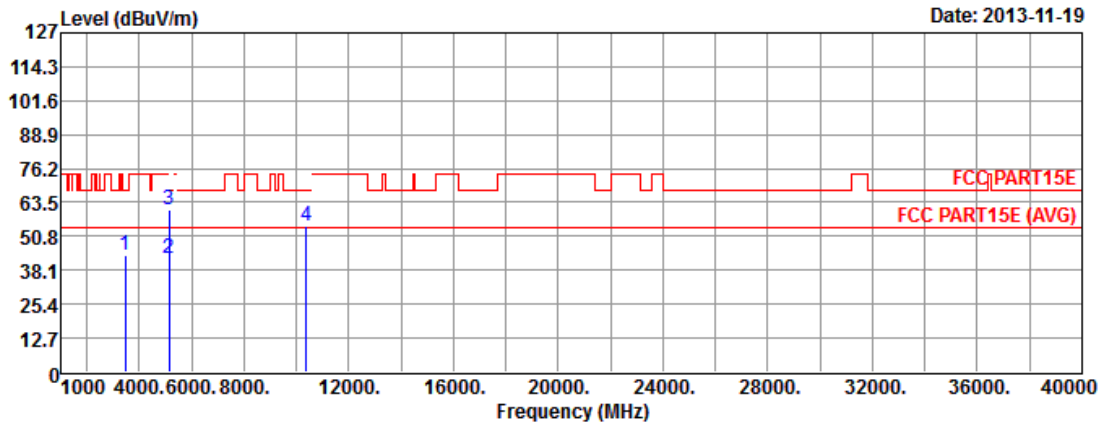
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

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


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5190
Test Mode	19	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3460.00	43.61	-24.59	68.20	43.69	28.68	5.60	34.36	---	---	Peak
2	5150.00	42.44	-11.56	54.00	37.50	31.49	7.17	33.72	---	---	Average
3	5150.00	61.01	-12.99	74.00	56.07	31.49	7.17	33.72	---	---	Peak
4	10380.00	54.41	-13.79	68.20	39.68	39.61	9.54	34.42	---	---	Peak

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

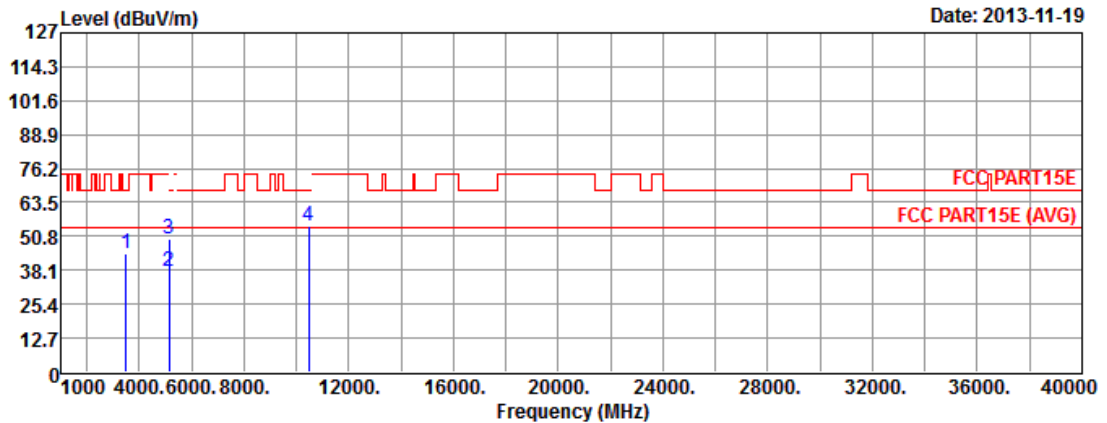
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
Test Mode	20	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3486.66	44.21	-23.99	68.20	44.22	28.69	5.65	34.35	---	---	Peak
2	5150.00	37.43	-16.57	54.00	32.49	31.49	7.17	33.72	---	---	Average
3	5150.00	50.10	-23.90	74.00	45.16	31.49	7.17	33.72	---	---	Peak
4	10460.00	54.67	-13.53	68.20	39.85	39.74	9.58	34.50	---	---	Peak

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

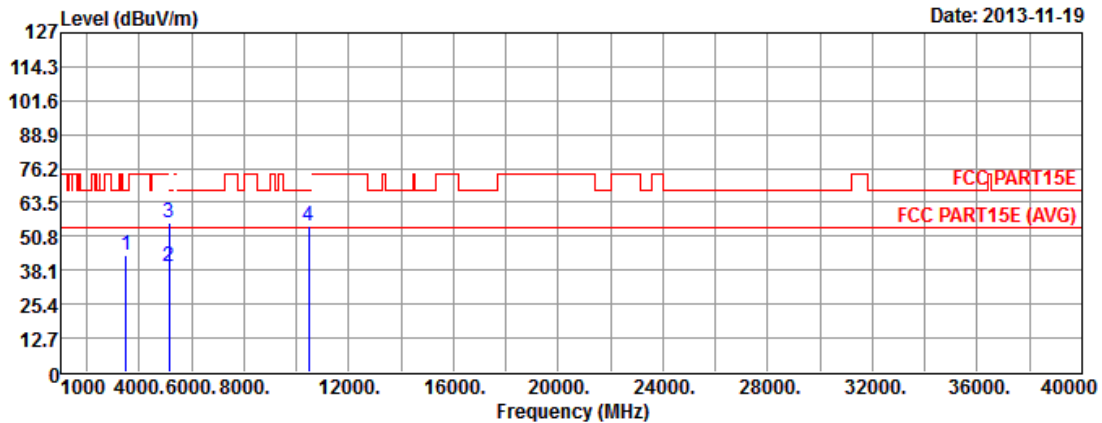
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5230
Test Mode	20	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3486.66	43.68	-24.52	68.20	43.69	28.69	5.65	34.35	---	---	Peak
2	5150.00	39.64	-14.36	54.00	34.70	31.49	7.17	33.72	---	---	Average
3	5150.00	56.16	-17.84	74.00	51.22	31.49	7.17	33.72	---	---	Peak
4	10460.00	54.56	-13.64	68.20	39.74	39.74	9.58	34.50	---	---	Peak

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

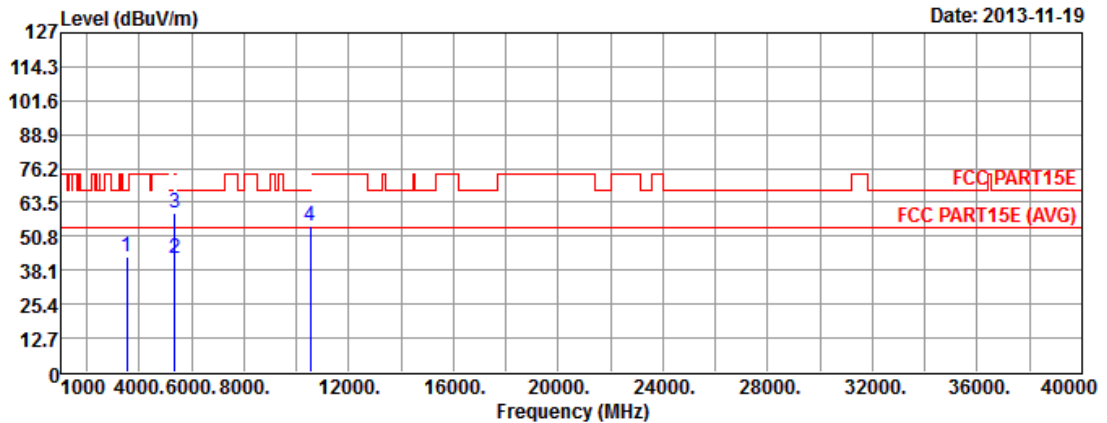
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
Test Mode	21	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3513.33	42.86	-25.34	68.20	42.76	28.73	5.71	34.34	---	---	Peak
2	5350.00	42.48	-11.52	54.00	37.39	31.61	7.20	33.72	---	---	Average
3	5350.00	59.85	-14.15	74.00	54.76	31.61	7.20	33.72	---	---	Peak
4	10540.00	54.53	-13.67	68.20	39.63	39.85	9.62	34.57	---	---	Peak

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

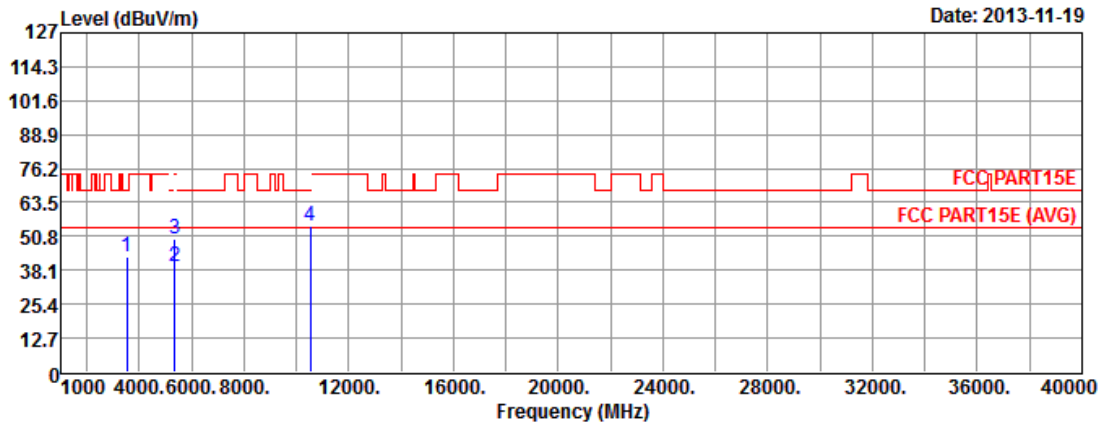
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5270
Test Mode	21	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3513.33	43.38	-24.82	68.20	43.28	28.73	5.71	34.34	---	---	Peak
2	5350.00	39.36	-14.64	54.00	34.27	31.61	7.20	33.72	---	---	Average
3	5350.00	50.04	-23.96	74.00	44.95	31.61	7.20	33.72	---	---	Peak
4	10540.00	54.65	-13.55	68.20	39.75	39.85	9.62	34.57	---	---	Peak

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

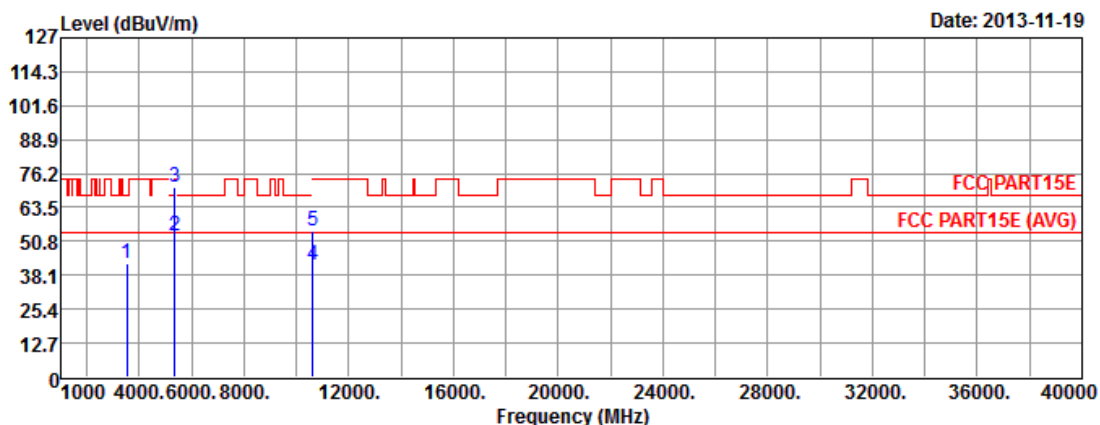
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
Test Mode	22	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3540.00	42.78	-25.42	68.20	42.57	28.78	5.76	34.33	---	---	Peak
2	5350.00	52.99	-1.01	54.00	47.90	31.61	7.20	33.72	---	---	Average
3	5350.00	71.17	-2.83	74.00	66.08	31.61	7.20	33.72	---	---	Peak
4	10620.00	42.07	-11.93	54.00	27.11	39.94	9.65	34.63	---	---	Average
5	10620.00	54.60	-19.40	74.00	39.64	39.94	9.65	34.63	---	---	Peak

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

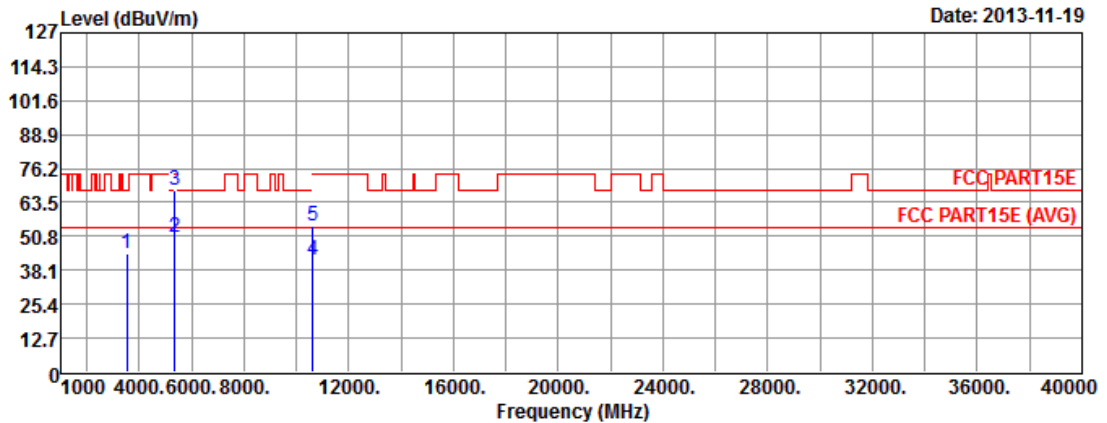
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
Test Mode	22	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3540.00	44.23	-23.97	68.20	44.02	28.78	5.76	34.33	---	---	Peak
2	5350.00	50.20	-3.80	54.00	45.11	31.61	7.20	33.72	---	---	Average
3	5350.00	68.33	-5.67	74.00	63.24	31.61	7.20	33.72	---	---	Peak
4	10620.00	42.22	-11.78	54.00	27.26	39.94	9.65	34.63	---	---	Average
5	10620.00	54.84	-19.16	74.00	39.88	39.94	9.65	34.63	---	---	Peak

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

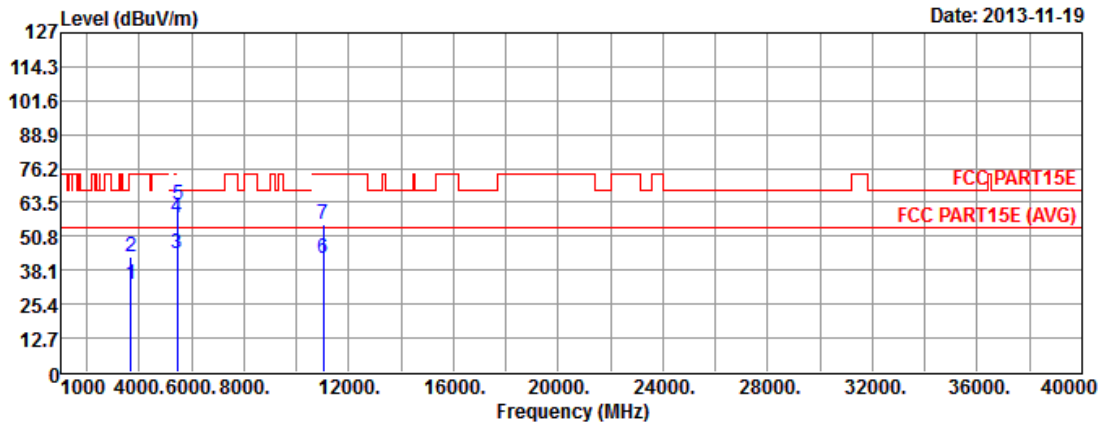
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
Test Mode	23	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3673.33	33.11	-20.89	54.00	32.41	29.05	5.93	34.28	---	---	Average
2	3673.33	43.37	-30.63	74.00	42.67	29.05	5.93	34.28	---	---	Peak
3	5460.00	44.09	-9.91	54.00	38.91	31.68	7.22	33.72	---	---	Average
4	5460.00	57.60	-16.40	74.00	52.42	31.68	7.22	33.72	---	---	Peak
5	5470.00	62.34	-5.86	68.20	57.15	31.68	7.23	33.72	---	---	Peak
6	11020.00	42.49	-11.51	54.00	27.22	40.38	9.83	34.94	---	---	Average
7	11020.00	55.23	-18.77	74.00	39.96	40.38	9.83	34.94	---	---	Peak

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

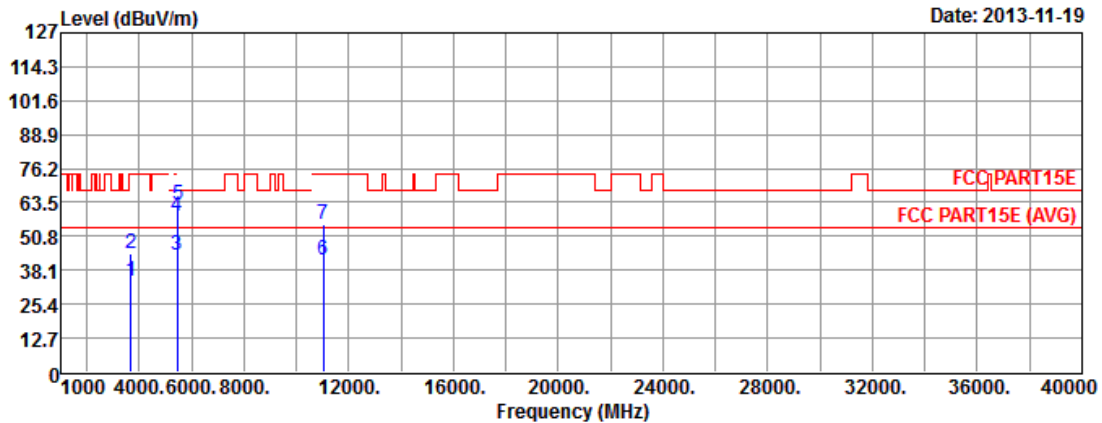
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT40	Test Freq. (MHz)	5510
Test Mode	23	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3673.33	34.28	-19.72	54.00	33.58	29.05	5.93	34.28	---	---	Average
2	3673.33	44.37	-29.63	74.00	43.67	29.05	5.93	34.28	---	---	Peak
3	5460.00	43.98	-10.02	54.00	38.80	31.68	7.22	33.72	---	---	Average
4	5460.00	58.53	-15.47	74.00	53.35	31.68	7.22	33.72	---	---	Peak
5	5470.00	62.88	-5.32	68.20	57.69	31.68	7.23	33.72	---	---	Peak
6	11020.00	42.19	-11.81	54.00	26.92	40.38	9.83	34.94	---	---	Average
7	11020.00	55.40	-18.60	74.00	40.13	40.38	9.83	34.94	---	---	Peak

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

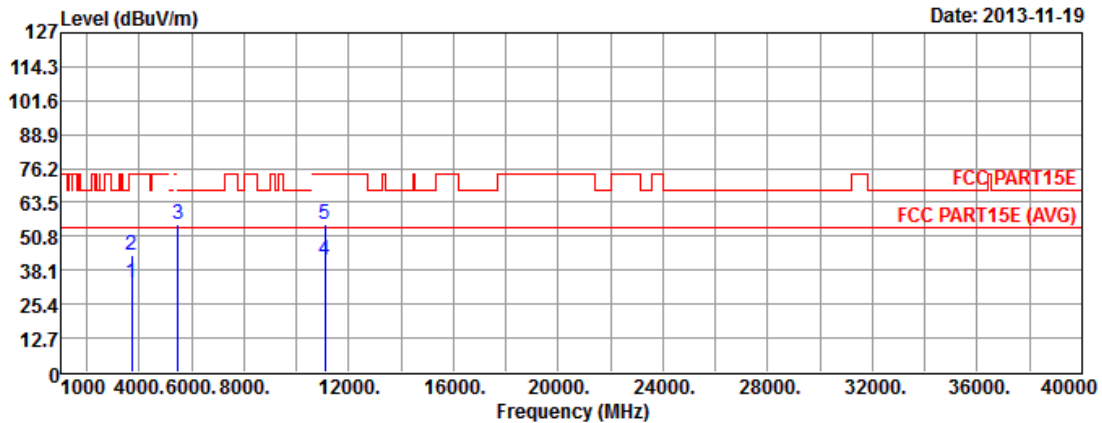
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT40	Test Freq. (MHz)	5550
Test Mode	24	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3700.00	33.42	-20.58	54.00	32.64	29.10	5.95	34.27	---	---	Average
2	3700.00	43.93	-30.07	74.00	43.15	29.10	5.95	34.27	---	---	Peak
3	5470.00	55.25	-12.95	68.20	50.06	31.68	7.23	33.72	---	---	Peak
4	11100.00	42.19	-11.81	54.00	26.97	40.30	9.89	34.97	---	---	Average
5	11100.00	55.07	-18.93	74.00	39.85	40.30	9.89	34.97	---	---	Peak

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

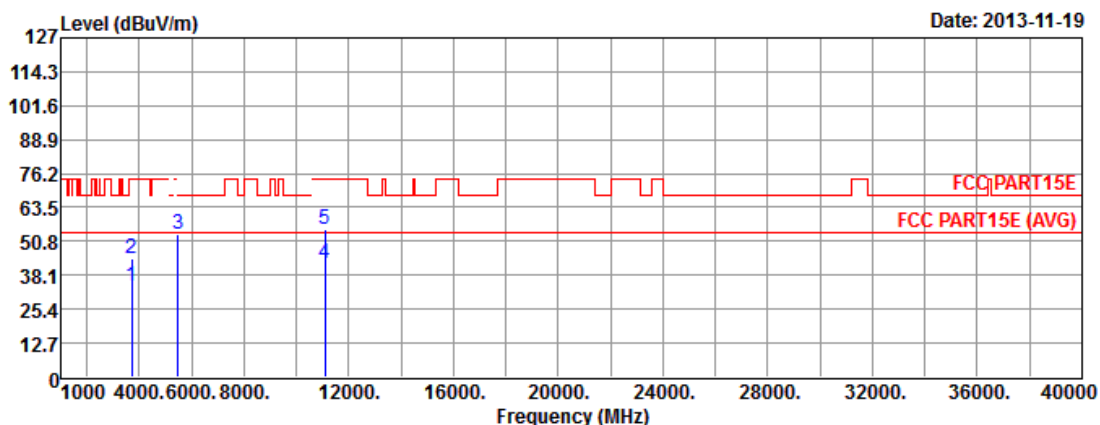
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
Test Mode	24	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3700.00	34.30	-19.70	54.00	33.52	29.10	5.95	34.27	---	---	Average
2	3700.00	44.19	-29.81	74.00	43.41	29.10	5.95	34.27	---	---	Peak
3	5470.00	53.63	-14.57	68.20	48.44	31.68	7.23	33.72	---	---	Peak
4	11100.00	42.38	-11.62	54.00	27.16	40.30	9.89	34.97	---	---	Average
5	11100.00	55.09	-18.91	74.00	39.87	40.30	9.89	34.97	---	---	Peak

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

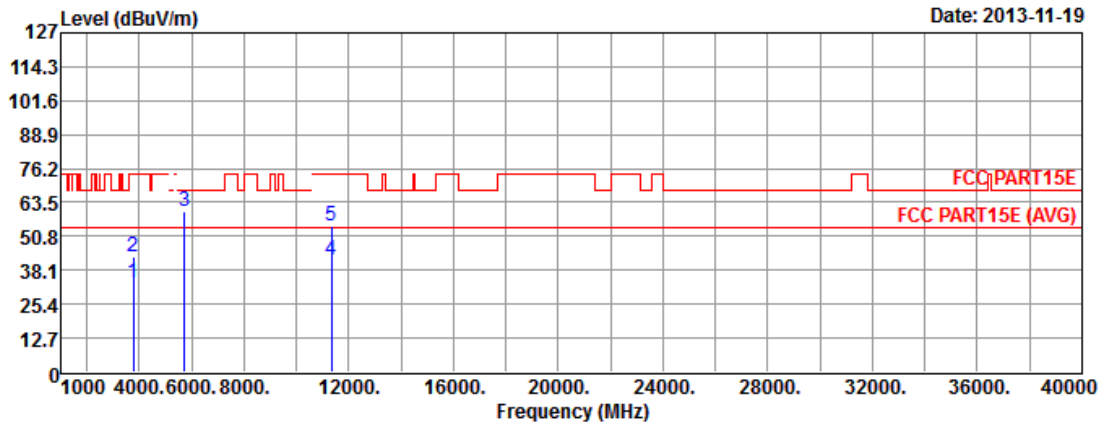
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
Test Mode	25	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3780.00	33.65	-20.35	54.00	32.61	29.26	6.02	34.24	---	---	Average
2	3780.00	42.99	-31.01	74.00	41.95	29.26	6.02	34.24	---	---	Peak
3	5725.00	59.97	-8.23	68.20	54.41	32.06	7.35	33.85	---	---	Peak
4	11340.00	41.92	-12.08	54.00	26.85	40.06	10.08	35.07	---	---	Average
5	11340.00	54.83	-19.17	74.00	39.76	40.06	10.08	35.07	---	---	Peak

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

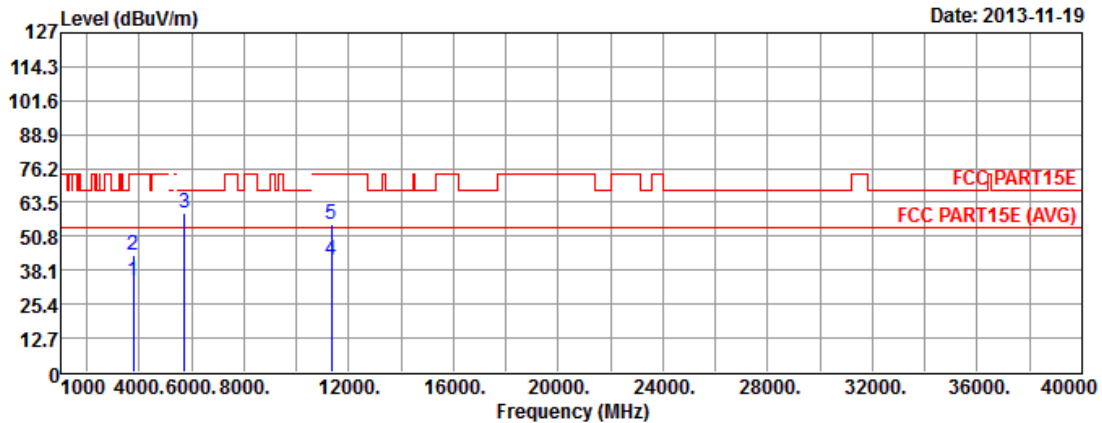
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
Test Mode	25	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3780.00	34.29	-19.71	54.00	33.25	29.26	6.02	34.24	---	---	Average
2	3780.00	43.89	-30.11	74.00	42.85	29.26	6.02	34.24	---	---	Peak
3	5725.00	59.30	-8.90	68.20	53.74	32.06	7.35	33.85	---	---	Peak
4	11340.00	42.17	-11.83	54.00	27.10	40.06	10.08	35.07	---	---	Average
5	11340.00	55.38	-18.62	74.00	40.31	40.06	10.08	35.07	---	---	Peak

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

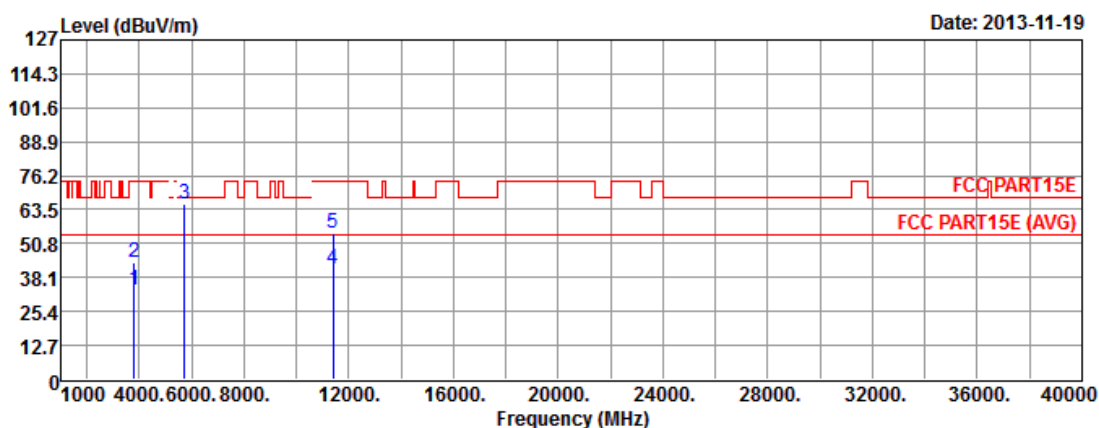
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

3.1.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a, chain 1

Modulation Mode	11a	Test Freq. (MHz)	5700
Test Mode	26	Polarization	V



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	33.53	-20.47	54.00	32.43	29.30	6.04	34.24	---	---	Average
2	3800.00	43.69	-30.31	74.00	42.59	29.30	6.04	34.24	---	---	Peak
3	5725.00	65.76	-2.44	68.20	60.20	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.54	-12.46	54.00	26.51	40.00	10.13	35.10	---	---	Average
5	11400.00	54.60	-19.40	74.00	39.57	40.00	10.13	35.10	---	---	Peak

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

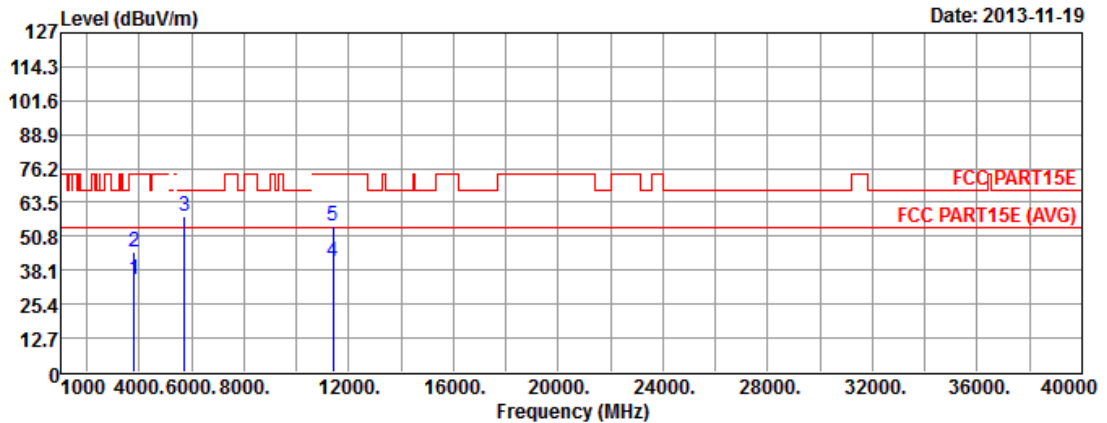
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5700
Test Mode	26	Polarization	H



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3800.00	34.62	-19.38	54.00	33.52	29.30	6.04	34.24	---	---	Average
2	3800.00	44.97	-29.03	74.00	43.87	29.30	6.04	34.24	---	---	Peak
3	5725.00	58.52	-9.68	68.20	52.96	32.06	7.35	33.85	---	---	Peak
4	11400.00	41.45	-12.55	54.00	26.42	40.00	10.13	35.10	---	---	Average
5	11400.00	54.94	-19.06	74.00	39.91	40.00	10.13	35.10	---	---	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.

4 Test Equipment and Calibration Data

Test Item	Radiated Emission				
Test Site	966 chamber8 / (03CH08-HY)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	Jul. 09, 2013	Jul. 08, 2014
Horn Antenna	ESCO	3117	000143261	Jan. 08, 2013	Jan. 07, 2014
3m Semi Anechoic Chamber (NSA)	TDK	SAC-3M	03CH08-HY	May. 13, 2013	May. 12, 2014
Amplifier	SONOMA	310N	187231	May. 15, 2013	May. 14, 2014
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	Jan. 23, 2013	Jan. 22, 2014
Bilog Antenna	Teseq GmbH	CBL6112D	35379	Oct. 10, 2013	Oct. 09, 2014
3m Semi Anechoic Chamber (Site VSWR)	TDK	SAC-3M	03CH08-HY	May. 25, 2013	May. 24, 2014
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15683/4	Mar. 15, 2013	Mar. 14, 2014
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	Mar. 15, 2013	Mar. 14, 2014
Preamplifier	EMCI	EMC011830	980148	Jun. 21, 2013	Jun. 20, 2014
Hygrometer	Testo	608-H2	41410070	Jul. 18, 2013	Jul. 17, 2014
Preamplifier	EMEC	EM01M06G	60584	Jul. 17, 2013	Jul. 16, 2014
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1156	Aug. 22, 2013	Aug. 21, 2014
Note: Calibration Interval of instruments listed above is one year.					