

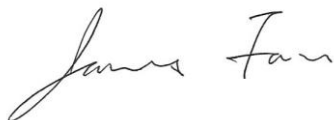
FCC Test Report

Equipment : Android All-in-One
Brand Name : acer, Gateway, packard bell
Model No. : DA223HQL, N5-2202, M5-2202
FCC ID : HLZDA223HQL
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725MHz
FCC Classification : NII
Applicant : Acer Incorporated
8F, No.88, Sec. 1, Xsintai 5th Rd., Xizhi, New Taipei City,
Taiwan 221
Manufacturer : Qisda Optronics (Suzhou) Co., Ltd.
169, Zhujiang Road, New District, Suzhou, Jiangsu
Province, P.R. China
Qisda Corporation
157 & 159, Shan-Ying Road, Gueishan, Taoyuan 333,
Taiwan
Qisda (Suzhou) Co., Ltd.
169, Zhujiang Road, New District, Suzhou, Jiangsu
215129, P.R. China
Qisda Mexicana S.A. De C.V.
Calzada Venustiano Carranza, No. 88 Col. Plutarco Elias
Calles 21376 Mexocali, B.C. Mexico C.P Mexico

The product sample received on Sep. 18, 2013 and completely tested on Oct. 21, 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



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Support Equipment.....	7
1.3	Testing Applied Standards	8
1.4	Testing Location Information	8
1.5	Measurement Uncertainty	9
2	TEST CONFIGURATION OF EUT.....	10
2.1	The Worst Case Modulation Configuration	10
2.2	The Worst Case Power Setting Parameter	11
2.3	The Worst Case Measurement Configuration	12
2.4	Test Setup Diagram	13
3	TRANSMITTER TEST RESULT	14
3.1	AC Power-line Conducted Emissions	14
3.2	Emission Bandwidth	17
3.3	RF Output Power.....	22
3.4	Peak Power Spectral Density	27
3.5	Peak Excursion.....	33
3.6	Transmitter Radiated Unwanted Emissions and Band Edge	37
3.7	Frequency Stability.....	92
4	TEST EQUIPMENT AND CALIBRATION DATA	94
	APPENDIX A. TEST PHOTOS	A1-A12

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]: 0.192MHz 45.91 (Margin 8.02dB) - AV 53.41 (Margin 10.52dB) - QP	FCC 15.207	Complied
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 5150-5250MHz 20M:22.72 / 40M:49.39 5250-5350MHz 20M:22.72 / 40M:49.51 5470-5725MHz 20M:22.72 / 40M:50.20	Information only	Complied
3.3	15.407(a)	RF Output Power (Maximum Conducted (Average) Output Power)	Power [dBm] 5150-5250MHz:11.71 5250-5350MHz:11.54 5470-5725MHz:11.63	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:-1.74 5250-5350MHz:-1.73 5470-5725MHz:-1.26	PPSD [dBm/MHz] 5150-5250MHz:1.48 5250-5350MHz:8.48 5470-5725MHz:8.48	Complied
3.5	15.407(a)	Peak Excursion	5150-5250MHz:9.26dB 5250-5350MHz:9.31dB 5470-5725MHz:9.44dB	13 dB	Complied
3.6	15.407(b)	Transmitter Unwanted Emissions and Band Edge	Restricted Bands [dBuV/m at 3m]: 11000.00MHz 52.91 (Margin 1.09dB) – AV	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied
3.7	15.407(g)	Frequency Stability	5.7857 ppm	Signal shall remain in-band	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)	Co-location
5150-5250	a	5180-5240	36-48 [4]	2	11.41	N/A
5150-5250	n(HT20)	5180-5240	36-48 [4]	2	11.71	N/A
5150-5250	n(HT40)	5190-5230	38-46 [2]	2	11.23	N/A
Note 1: RF output power specifies that Maximum Conducted (Average) 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.)						

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
5250-5350	a	5260-5320	52-64 [4]	2	11.45	N/A
5250-5350	n(HT20)	5260-5320	52-64 [4]	2	11.54	N/A
5250-5350	n(HT40)	5270-5310	54-62 [2]	2	11.44	N/A
Note 1: RF output power specifies that Maximum Conducted (Average) 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.)						

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
5470-5725	a	5500-5700	100-140 [8]	2	11.34	N/A
5470-5725	n(HT20)	5500-5700	100-140 [8]	2	11.63	N/A
5470-5725	n(HT40)	5510-5670	102-134 [3]	2	11.49	N/A
Note 1: RF output power specifies that Maximum Conducted (Average) 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	
<input type="checkbox"/>	Equipment placed on the market without antennas
<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
<input checked="" type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	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.
<input type="checkbox"/>	External antenna (dedicated antennas)
<input type="checkbox"/>	Single power level with corresponding antenna(s).
<input type="checkbox"/>	Multiple power level and corresponding antenna(s).
<input type="checkbox"/>	RF connector provided
<input type="checkbox"/>	Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)
<input type="checkbox"/>	Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)

Antenna General Information				
No.	Ant. Cat.	Ant. Type	Connector	Gain (dBi)
1	Integral	inverted-F	U.FL	5.2
2	Integral	inverted-F	U.FL	5.8

1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input checked="" type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input type="checkbox"/> Operated normally mode for worst duty cycle	
<input checked="" type="checkbox"/> Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
<input checked="" type="checkbox"/> 99.31% - IEEE 802.11a	0.03
<input checked="" type="checkbox"/> 99.26% - IEEE 802.11n (HT20)	0.03
<input checked="" type="checkbox"/> 98.51% - IEEE 802.11n (HT40)	0.07

1.1.5 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input type="checkbox"/> External DC adapter	<input checked="" type="checkbox"/> Battery
Test Voltage (Host)	<input checked="" type="checkbox"/> Vnom (110 Vac)	<input checked="" type="checkbox"/> Vmax (126.5 Vac)	<input checked="" type="checkbox"/> Vmin (93.5 Vac)
Test Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (70°C)	<input checked="" type="checkbox"/> Tmin (-30°C)

1.2 Accessories and Support Equipment

Accessories				
No.	Equipment	Brand Name	Model Name	Remarks
1	AC Adapter 1	LITEON	PA-1650-10	I/P: 100-240Vac, 1.6A, 50/60Hz O/P: 19Vdc, 3.42A 1.5m non-shielded cable w/o core
2	AC Adapter 2	DELTA	ADP-65JH DB	I/P: 100-240Vac, 1.5A, 50/60Hz O/P: 19Vdc, 3.42A 1.5m non-shielded cable w/o core
3	Battery	Acer	AL10B31	11.1Vdc, 4400mAh, 49Wh
4	HDMI cable	---	---	1.5m non-shielded cable w/o core
5	MHL cable	---	---	1.0m non-shielded cable w/o core
6	USB cable	---	---	1.5m shielded cable w/o core

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	---	---	---	---

1.3 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2009
- ♦ FCC KDB 789033 v01r03
- ♦ FCC KDB 662911 v02
- ♦ FCC KDB 412172 v01

1.4 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	Sporton Lab	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456 FAX : 886-3-318-0055		
<input checked="" type="checkbox"/>	ICC Lab	ADD : No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsein 333, Taiwan (R.O.C.)		
		TEL : 886-3-271-8666 FAX : 886-3-318-0155		
Test Condition		Test Site No.	Test Engineer	Test Date
RF Conducted		TH01-HY	Ian Du	23°C / 62% Oct. 19, 2013
*AC Conduction		CO01-WS	Skys Huang	24°C / 55% Oct. 21, 2013
*Radiated Emission		03CH01-WS	Skys Huang	24°C / 62% Sep. 20 ~ Oct. 16, 2013
Test site registered number [657002] with FCC.				
Test site registered number [10807A-1] with IC.				

Note: * Sporton Lab subcontracts this test item to ICC lab (TAF: 2732).

ICC lab is a TAF accreditation test firm and also is an approved provider of Sporton lab.

1.5 Measurement Uncertainty

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

Measurement Uncertainty			
Test Item		Uncertainty	Limit
AC power-line conducted emissions		± 2.26 dB	N/A
Emission bandwidth		± 1.42 %	N/A
RF output power, conducted		± 0.63 dB	N/A
Power density, conducted		± 0.81 dB	N/A
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	2	6-54Mbps	6 Mbps
HT20	2	M0-15	M0
HT40	2	M0-15	M0

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)						
Test Software	adb command					
Test Software Version	2.0.29					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5180	5200	5240	5190	5230
11a,6-54Mbps	2	10.5	10.5	10.5	-	-
HT20,M0-15	2	10.5	10.5	11	-	-
HT40,M0-15	2	-	-	-	11	11




The Worst Case Power Setting Parameter (5250-5350 MHz band)						
Test Software	adb command					
Test Software Version	2.0.29					
Modulation Mode	N _{TX}	Test Frequency (MHz)				
		NCB: 20MHz			NCB: 40MHz	
		5260	5300	5320	5270	5310
11a,6-54Mbps	2	10.5	10	9	-	-
HT20,M0-15	2	10.5	10	9.5	-	-
HT40,M0-15	2	-	-	-	11	12

The Worst Case Power Setting Parameter (5470-5725 MHz band)							
Test Software	adb command						
Test Software Version	2.0.29						
Modulation Mode	N _{TX}	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	2	11.5	11.5	10.5	-	-	-
HT20,M0-15	2	12	11.5	11	-	-	-
HT40,M0-15	2	-	-	-	12	11.5	11.5

2.3 The Worst Case Measurement Configuration

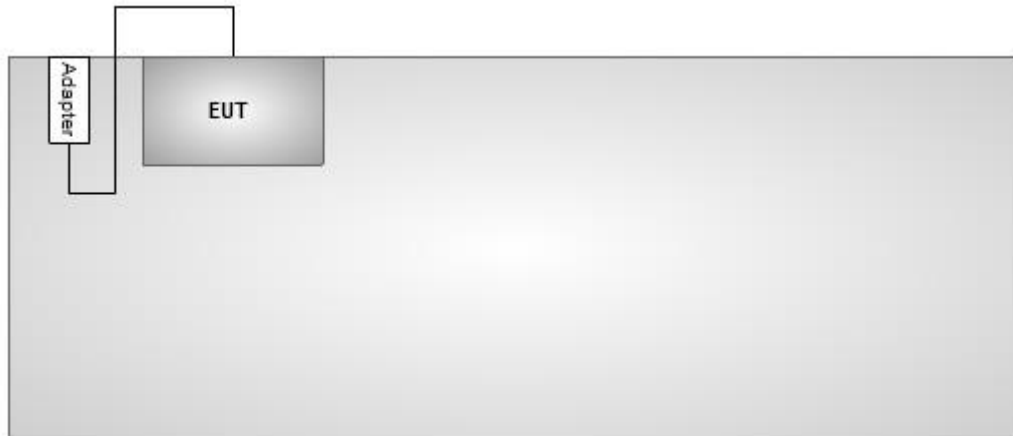
The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	AC Power & Radio link (WLAN), adapter 1
Note: Adapter 1, adapter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

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

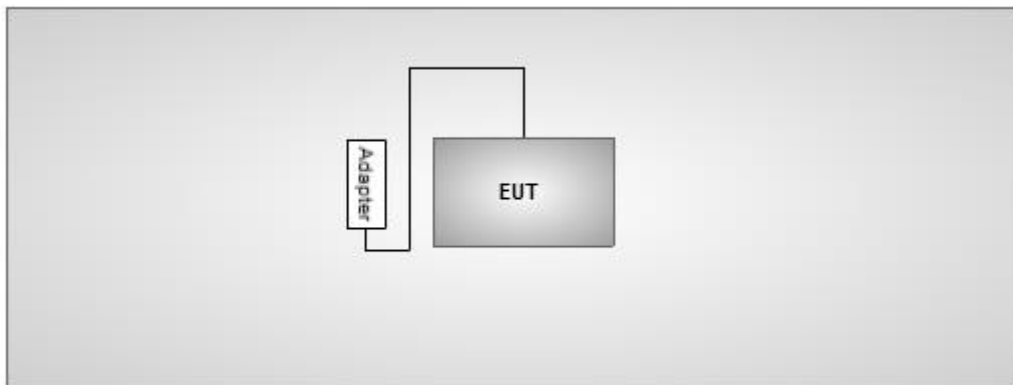
The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	<input checked="" type="checkbox"/> EUT will be placed in fixed position.		
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.		
	<input type="checkbox"/> EUT will be operating multiple positions. The dipole antenna of EUT was pre-tested on the positioned of each 3 axis. The worst plane is Y.		
Operating Mode	<input checked="" type="checkbox"/> AC Power & Radio link (WLAN), adapter 1		
Modulation Mode	11a, HT20, HT40		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Note: Adapter 1, adapter 2 had been pretested and found that the adapter 1 was the worst case and was selected for final test.			

2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Test Setup Diagram –Radiated Emission Test



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

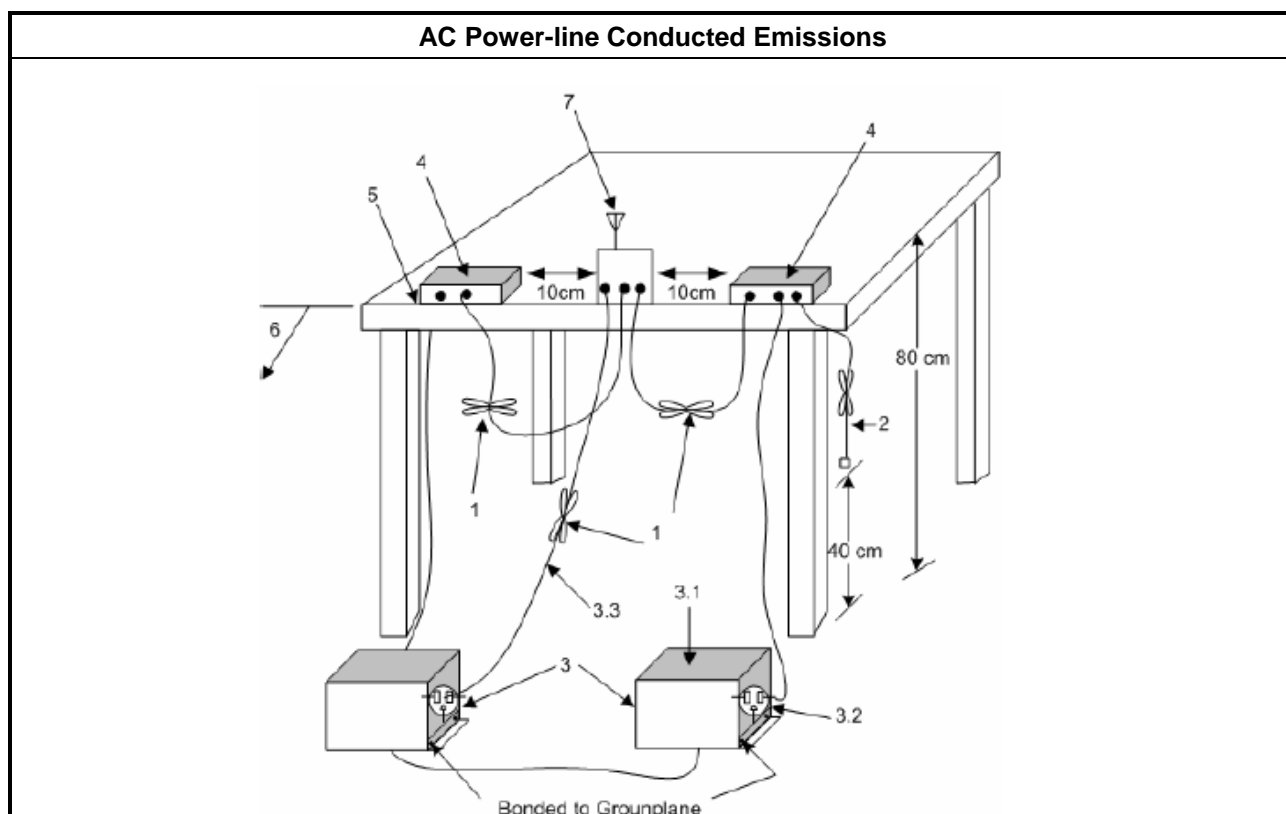
3.1.2 Measuring Instruments

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

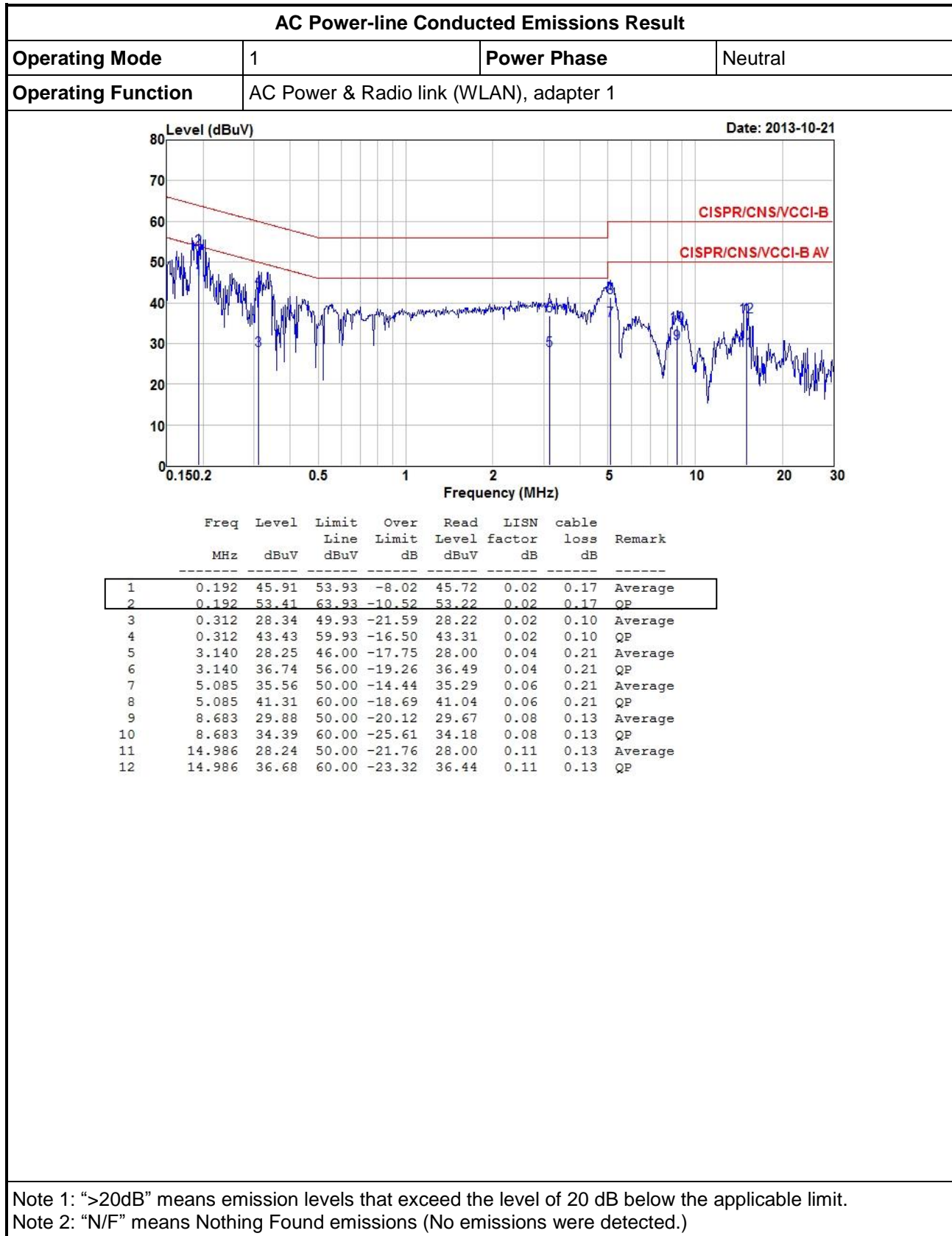
3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

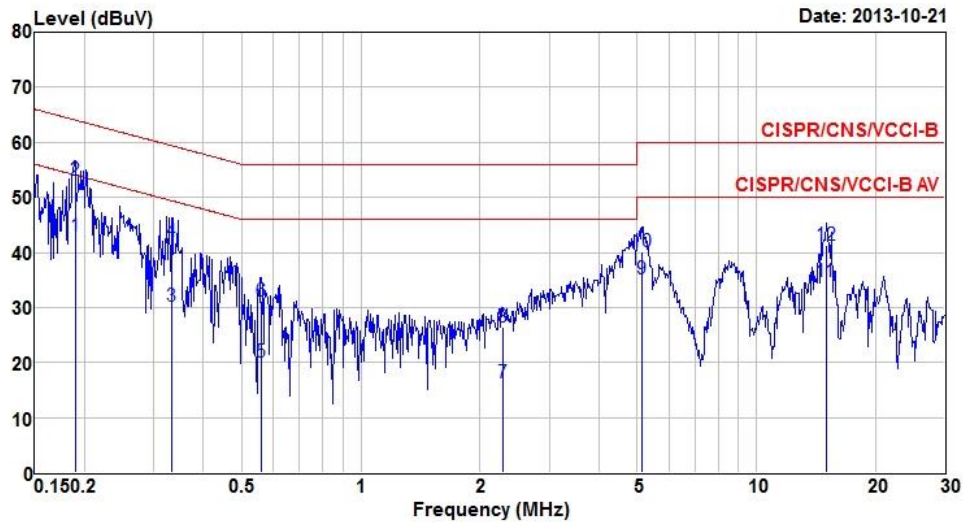


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

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



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.189	42.86	54.06	-11.20	42.67	0.03	0.16	Average
2	0.189	53.16	64.06	-10.90	52.97	0.03	0.16	QP
3	0.332	30.10	49.40	-19.30	29.99	0.03	0.08	Average
4	0.332	41.95	59.40	-17.45	41.84	0.03	0.08	QP
5	0.561	19.97	46.00	-26.03	19.89	0.03	0.05	Average
6	0.561	31.23	56.00	-24.77	31.15	0.03	0.05	QP
7	2.285	16.33	46.00	-29.67	16.10	0.05	0.18	Average
8	2.285	26.40	56.00	-29.60	26.17	0.05	0.18	QP
9	5.139	35.07	50.00	-14.93	34.79	0.07	0.21	Average
10	5.139	40.02	60.00	-19.98	39.74	0.07	0.21	QP
11	14.986	34.60	50.00	-15.40	34.35	0.12	0.13	Average
12	14.986	41.21	60.00	-18.79	40.96	0.12	0.13	QP

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

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

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

Emission Bandwidth (EBW) Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.

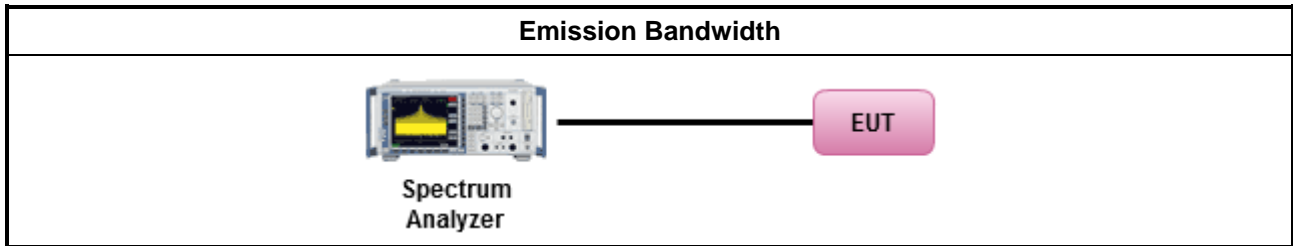
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

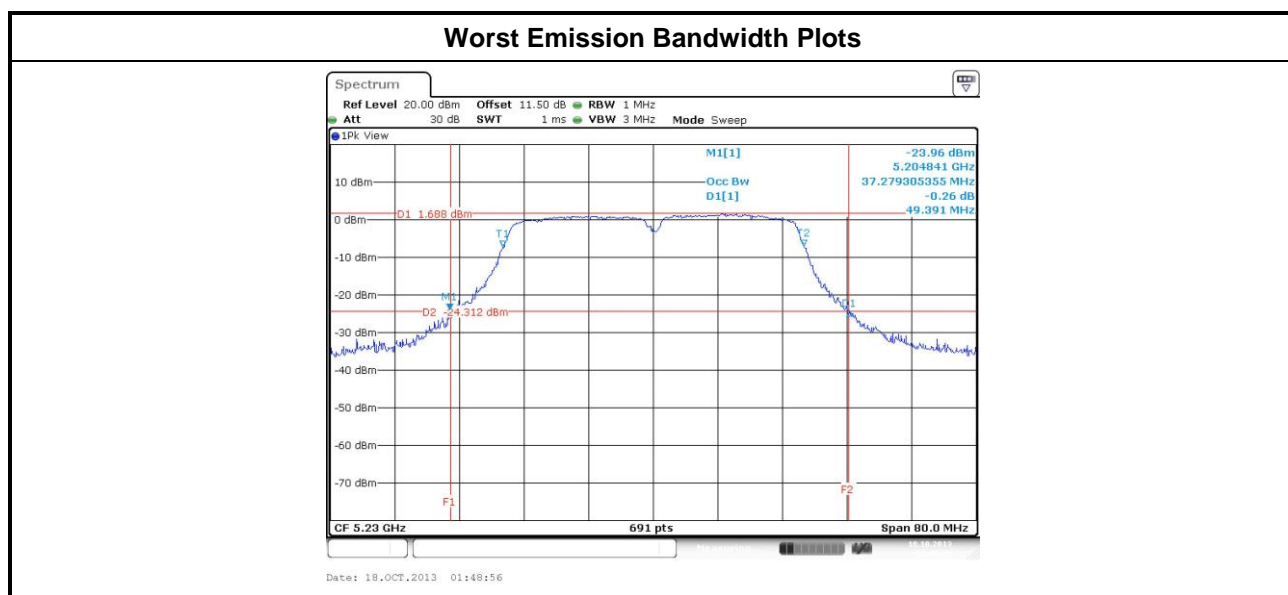
Test Method	
<input checked="" type="checkbox"/>	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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



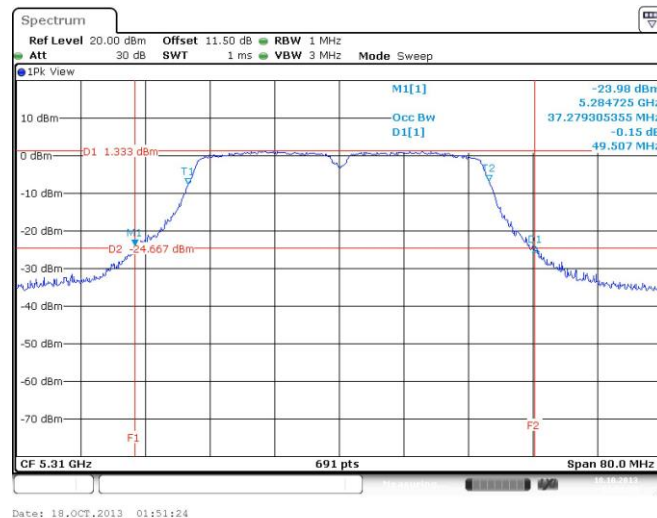
3.2.5 Test Result of Emission Bandwidth

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 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5180	16.85	16.67	-	-	22.43	22.14	-	-	16.22	17.00
11a	2	5200	16.85	16.67	-	-	22.38	22.20	-	-	16.22	17.00
11a	2	5240	16.85	16.67	-	-	22.72	22.08	-	-	16.22	17.00
HT20	2	5180	16.67	16.73	-	-	21.97	21.10	-	-	16.22	17.00
HT20	2	5200	16.67	16.67	-	-	21.91	21.16	-	-	16.22	17.00
HT20	2	5240	16.67	16.73	-	-	22.14	21.62	-	-	16.22	17.00
HT40	2	5190	37.28	36.82	-	-	48.93	47.54	-	-	17.00	17.00
HT40	2	5230	37.28	36.82	-	-	49.39	47.19	-	-	17.00	17.00
Result			Complied									



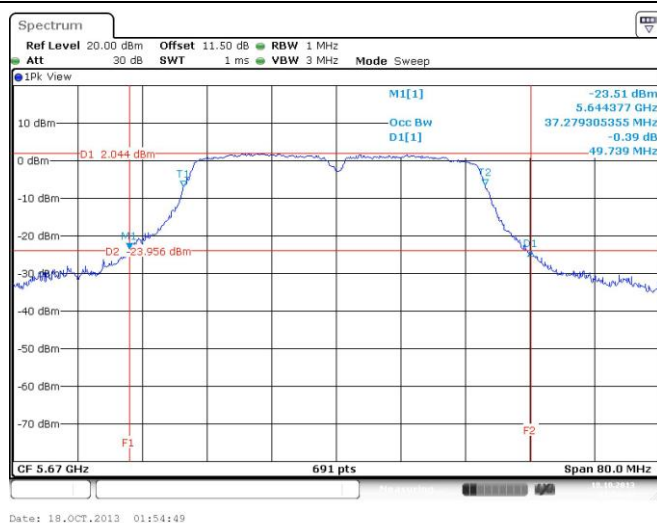
UNII Emission Bandwidth Result (5250-5350MHz band)

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 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5260	16.79	16.67	-	-	22.67	22.43	-	-	23.22	24.00
11a	2	5300	16.79	16.67	-	-	22.38	22.32	-	-	23.22	24.00
11a	2	5320	16.79	16.67	-	-	22.61	22.38	-	-	23.22	24.00
HT20	2	5260	16.67	16.67	-	-	22.14	21.74	-	-	23.22	24.00
HT20	2	5300	16.67	16.61	-	-	22.32	21.62	-	-	23.20	24.00
HT20	2	5320	16.67	16.67	-	-	22.43	21.68	-	-	23.22	24.00
HT40	2	5270	37.28	36.82	-	-	49.39	47.88	-	-	24.00	24.00
HT40	2	5310	37.28	36.70	-	-	49.51	46.61	-	-	24.00	24.00
Result			Complied									

Worst Emission Bandwidth Plots


UNII Emission Bandwidth Result (5470-5725MHz band)

Condition			Emission Bandwidth (MHz)									
Modulation Mode	N _{TX}	Freq. (MHz)	99% Bandwidth				26dB Bandwidth				Power Limit	
			Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	Chain-Port 1	Chain-Port 2	Chain-Port 3	Chain-Port 4	99% BW	26dB BW
11a	2	5500	16.85	16.67	-	-	22.49	22.49	-	-	23.22	24.00
11a	2	5580	16.85	16.67	-	-	22.61	21.86	-	-	23.22	24.00
11a	2	5700	16.85	16.67	-	-	22.72	22.55	-	-	23.22	24.00
HT20	2	5500	16.67	16.67	-	-	22.26	21.80	-	-	23.22	24.00
HT20	2	5580	16.67	16.67	-	-	22.20	21.39	-	-	23.22	24.00
HT20	2	5700	16.67	16.67	-	-	22.32	21.74	-	-	23.22	24.00
HT40	2	5510	37.40	36.93	-	-	49.86	48.70	-	-	24.00	24.00
HT40	2	5550	37.40	36.82	-	-	50.20	47.42	-	-	24.00	24.00
HT40	2	5670	37.28	36.93	-	-	49.74	47.88	-	-	24.00	24.00
Result			Complied									

Worst Emission Bandwidth Plots


3.3 RF Output Power

3.3.1 RF Output Power Limit

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

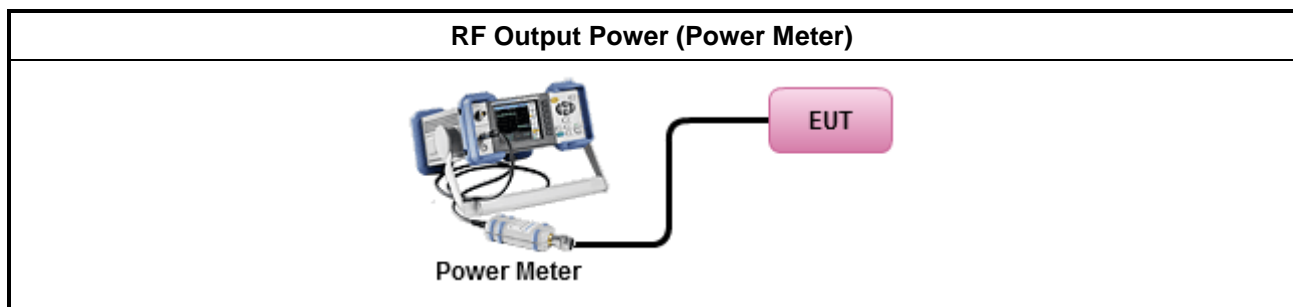
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Maximum Conducted Output Power
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method PM-G (using a gated RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Transmit Chains No.		1	2	-	-
Maximum G_{ANT} (dBi)		5.2	5.8	-	-
Modulation Mode	DG (dBi)	N_{TX}	N_{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	5.8	2	1	-	-
HT20,M0-15	5.8	2	1	-	-
HT40,M0-15	5.8	2	1	-	-
<p>Note 1: For CDD transmissions, directional gain is calculated as power measurements: Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows: Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \leq 4$;</p> <p>Note 2: Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain</p>					

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	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5180	7.95	8.63	-	-	11.31	17.00	5.8	17.11	23.00
11a	2	5200	8.22	8.36	-	-	11.30	17.00	5.8	17.10	23.00
11a	2	5240	8.12	8.67	-	-	11.41	17.00	5.8	17.21	23.00
HT20	2	5180	7.89	8.51	-	-	11.22	17.00	5.8	17.02	23.00
HT20	2	5200	7.95	8.08	-	-	11.03	17.00	5.8	16.83	23.00
HT20	2	5240	8.34	9.04	-	-	11.71	17.00	5.8	17.51	23.00
HT40	2	5190	7.86	8.55	-	-	11.23	17.00	5.8	17.03	23.00
HT40	2	5230	7.84	8.27	-	-	11.07	17.00	5.8	16.87	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	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5260	8.24	8.63	-	-	11.45	24.00	5.8	17.25	30.00
11a	2	5300	8.25	8.62	-	-	11.45	24.00	5.8	17.25	30.00
11a	2	5320	8.03	8.57	-	-	11.32	24.00	5.8	17.12	30.00
HT20	2	5260	8.24	8.59	-	-	11.43	24.00	5.8	17.23	30.00
HT20	2	5300	8.01	8.69	-	-	11.37	24.00	5.8	17.17	30.00
HT20	2	5320	8.24	8.81	-	-	11.54	24.00	5.8	17.34	30.00
HT40	2	5270	8.25	8.61	-	-	11.44	24.00	5.8	17.24	30.00
HT40	2	5310	7.96	8.56	-	-	11.28	24.00	5.8	17.08	30.00
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	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	2	5500	7.60	8.95	-	-	11.34	24.00	5.8	17.14	30.00
11a	2	5580	7.89	8.73	-	-	11.34	24.00	5.8	17.14	30.00
11a	2	5700	7.99	8.34	-	-	11.18	24.00	5.8	16.98	30.00
HT20	2	5500	7.97	9.18	-	-	11.63	24.00	5.8	17.43	30.00
HT20	2	5580	7.78	8.77	-	-	11.31	24.00	5.8	17.11	30.00
HT20	2	5700	8.28	8.81	-	-	11.56	24.00	5.8	17.36	30.00
HT40	2	5510	7.66	9.17	-	-	11.49	24.00	5.8	17.29	30.00
HT40	2	5550	7.69	8.74	-	-	11.26	24.00	5.8	17.06	30.00
HT40	2	5670	8.06	8.85	-	-	11.48	24.00	5.8	17.28	30.00
Result			Complied								

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 4 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.725-5.825 GHz band:
<input type="checkbox"/>	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 17 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 17 - (G_{TX} - 6)$.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.	

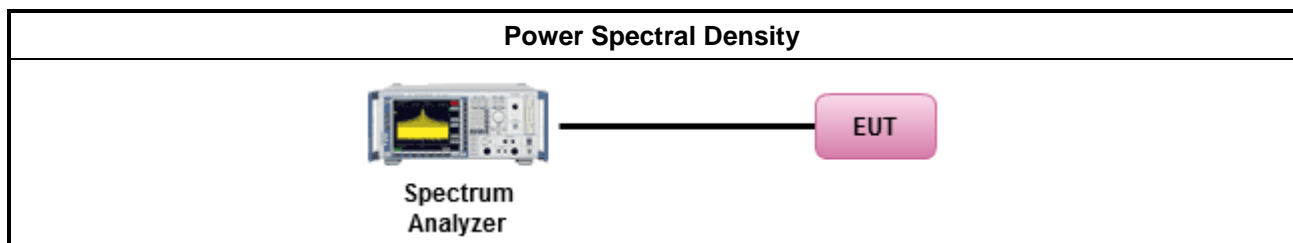
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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:
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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]) $EIRP_{total} = PPSD_{total} + DG$
<input type="checkbox"/>	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	-	-
Maximum G _{ANT} (dBi)		5.2	5.8	-	-
Modulation Mode	DG (dBi)	N _{TX}	N _{SS}	STBC	Array Gain (dB)
11a,6-54Mbps	8.52	2	1	-	-
HT20,M0-15	8.52	2	1	-	-
HT40,M0-15	8.52	2	1	-	-

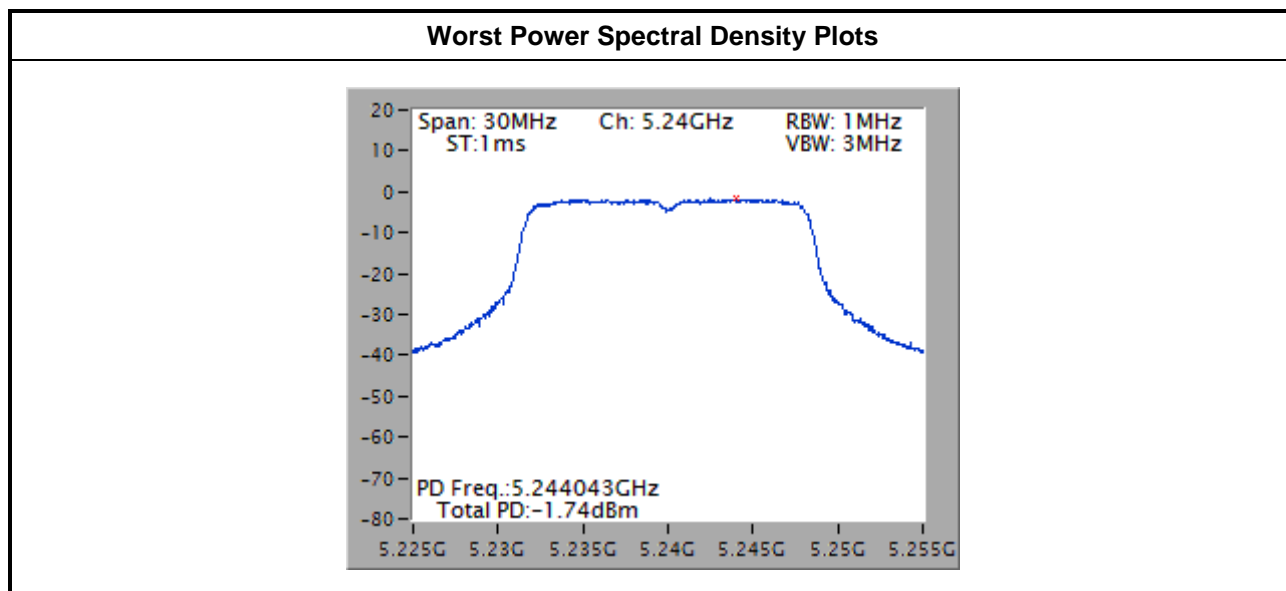
Note: Directional gain = $10 * \log((10^{5.2/20} + 10^{5.8/20})/2) = 8.52$ dBi

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	2	5180	-1.80	1.48	8.52	6.72	10.00
11a	2	5200	-1.87	1.48	8.52	6.65	10.00
11a	2	5240	-1.77	1.48	8.52	6.75	10.00
HT20	2	5180	-2.03	1.48	8.52	6.49	10.00
HT20	2	5200	-2.41	1.48	8.52	6.11	10.00
HT20	2	5240	-1.74	1.48	8.52	6.78	10.00
HT40	2	5190	-4.93	1.48	8.52	3.59	10.00
HT40	2	5230	-4.87	1.48	8.52	3.65	10.00
Result			Complied				

Note:

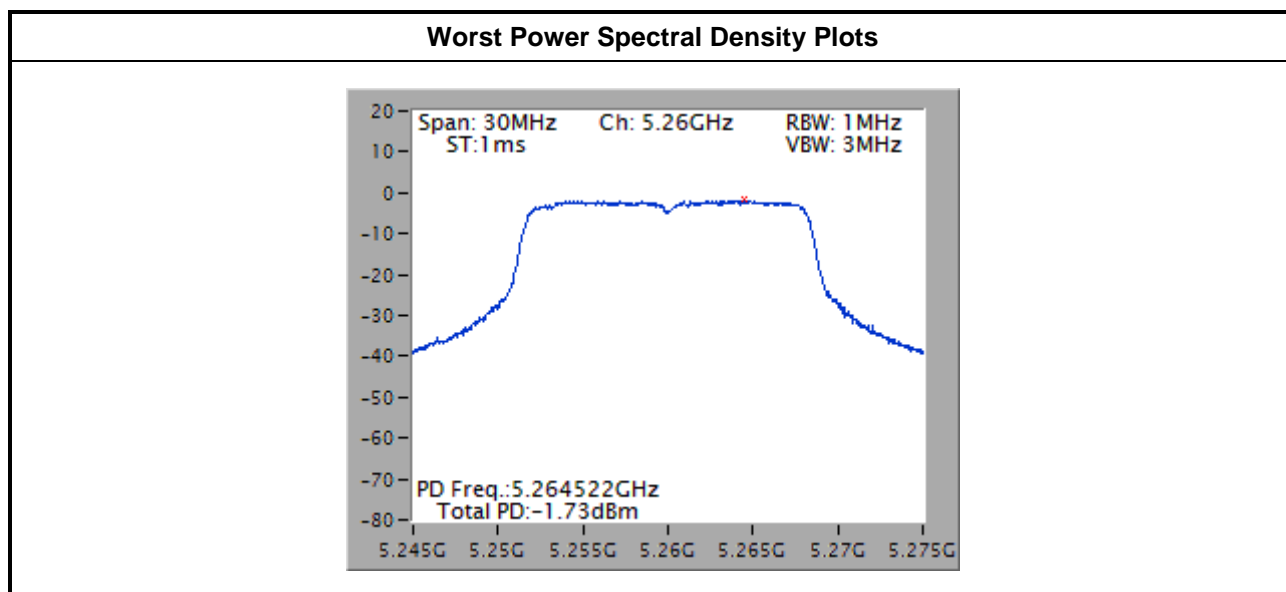
1. Test summed value is sum of each TX chain test result by computer calculating. This method is refer to KDB662911 Section E) 2) a)
2. Directional gain = $10 * \log((10^{5.2/20} + 10^{5.8/20})^2 / 2) = 8.52 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to 4 dBm – (8.52 dBi - 6 dBi) = 1.48 dBm



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	2	5260	-1.74	8.48	8.52	6.78	17.00
11a	2	5300	-1.91	8.48	8.52	6.61	17.00
11a	2	5320	-2.09	8.48	8.52	6.43	17.00
HT20	2	5260	-1.73	8.48	8.52	6.79	17.00
HT20	2	5300	-1.94	8.48	8.52	6.58	17.00
HT20	2	5320	-2.00	8.48	8.52	6.52	17.00
HT40	2	5270	-4.74	8.48	8.52	3.78	17.00
HT40	2	5310	-5.12	8.48	8.52	3.40	17.00
Result			Complied				

Note:

1. Test summed value is sum of each TX chain test result by computer calculating. This method is refer to KDB662911 Section E) 2) a)
2. Directional gain = $10 * \log((10^{5.2/20} + 10^{5.8/20})^2 / 2) = 8.52 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to $11 \text{ dBm} - (8.52 \text{ dBi} - 6 \text{ dBi}) = 8.48 \text{ dBm}$

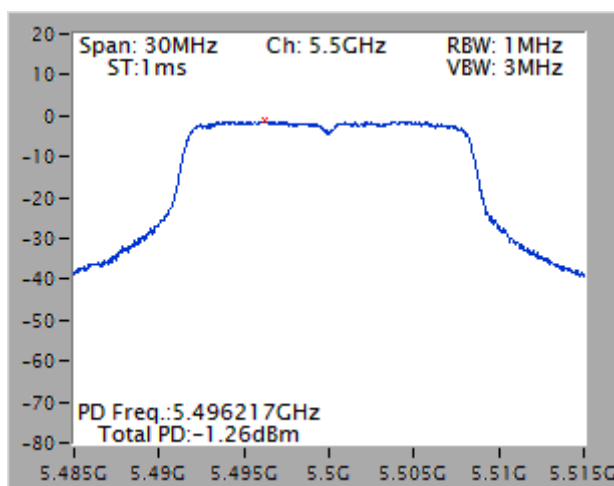


Peak Power Spectral Density Result (5470-5725MHz band)							
Condition			Peak Power Spectral Density (dBm/MHz)				
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	2	5500	-1.50	8.48	8.52	7.02	17.00
11a	2	5580	-1.43	8.48	8.52	7.09	17.00
11a	2	5700	-1.53	8.48	8.52	6.99	17.00
HT20	2	5500	-1.26	8.48	8.52	7.26	17.00
HT20	2	5580	-1.73	8.48	8.52	6.79	17.00
HT20	2	5700	-1.42	8.48	8.52	7.10	17.00
HT40	2	5510	-4.79	8.48	8.52	3.73	17.00
HT40	2	5550	-4.81	8.48	8.52	3.71	17.00
HT40	2	5670	-4.57	8.48	8.52	3.95	17.00
Result			Complied				

Note:

1. Test summed value is sum of each TX chain test result by computer calculating. This method is refer to KDB662911 Section E) 2) a)
2. Directional gain = $10 * \log((10^{5.2/20} + 10^{5.8/20})^2 / 2) = 8.52 \text{ dBi} > 6\text{dBi}$
Limit shall be reduced to $11 \text{ dBm} - (8.52 \text{ dBi} - 6 \text{ dBi}) = 8.48 \text{ dBm}$

Worst Power Spectral Density Plots



3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	N/A

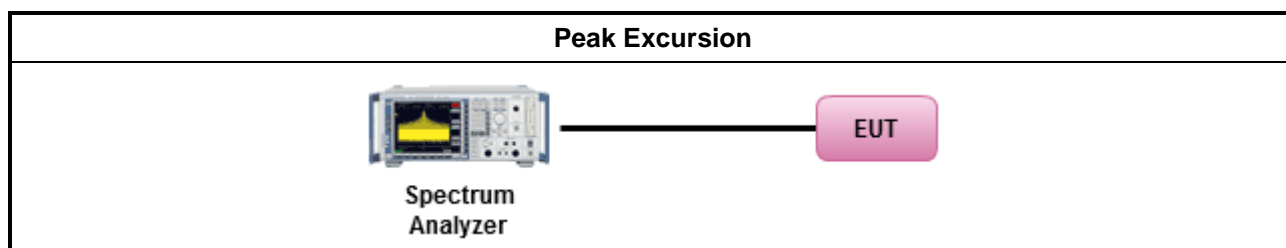
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause G peak excursion method.
<input checked="" type="checkbox"/>	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
<input checked="" type="checkbox"/>	For conducted measurement.
<input checked="" type="checkbox"/>	Testing a single output port is sufficient to demonstrate compliance with the peak excursion.
<input type="checkbox"/>	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.

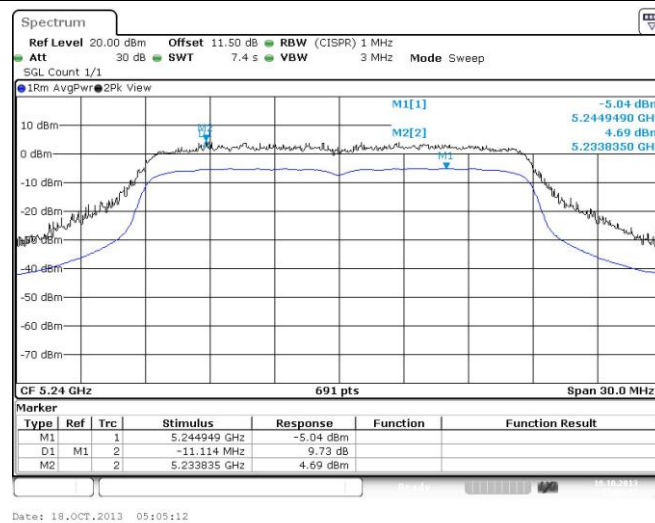
3.5.4 Test Setup



3.5.5 Test Result of Peak Excursion

Mode	Modulation Mode	N _{TX}	Freq. (MHz)	Measured value(dB)	Duty factor (dB)	Peak Excursion (dB)	Limit
11a	BPSK	2	5240	8.63	0.03	8.60	13
11a	QPSK	2	5240	8.61	0.11	8.50	13
11a	16QAM	2	5240	8.77	0.23	8.54	13
11a	64QAM	2	5240	9.13	0.47	8.66	13
HT20	BPSK	2	5240	8.45	0.03	8.42	13
HT20	QPSK	2	5240	9.03	0.12	8.91	13
HT20	16QAM	2	5240	8.75	0.23	8.52	13
HT20	64QAM	2	5240	9.73	0.47	9.26	13
HT40	BPSK	2	5190	7.02	0.07	6.95	13
HT40	QPSK	2	5190	8.21	0.27	7.94	13
HT40	16QAM	2	5190	9.00	0.45	8.55	13
HT40	64QAM	2	5190	9.04	0.79	8.25	13

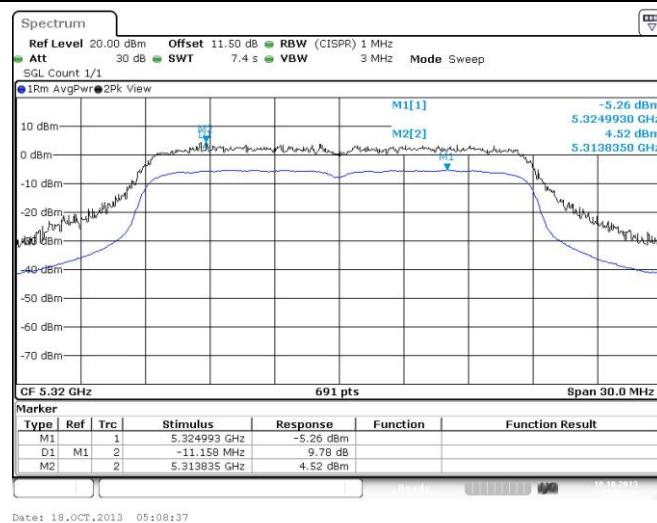
Worst Peak Excursion Plots



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

Mode	Modulation Mode	N _{TX}	Freq. (MHz)	Measured value(dB)	Duty factor (dB)	Peak Excursion (dB)	Limit
11a	BPSK	2	5260	8.64	0.03	8.61	13
11a	QPSK	2	5260	8.59	0.11	8.48	13
11a	16QAM	2	5260	8.85	0.23	8.62	13
11a	64QAM	2	5260	8.98	0.47	8.51	13
HT20	BPSK	2	5320	8.82	0.03	8.79	13
HT20	QPSK	2	5320	8.67	0.12	8.55	13
HT20	16QAM	2	5320	8.54	0.23	8.31	13
HT20	64QAM	2	5320	9.78	0.47	9.31	13
HT40	BPSK	2	5270	8.06	0.07	7.99	13
HT40	QPSK	2	5270	8.83	0.27	8.56	13
HT40	16QAM	2	5270	9.19	0.45	8.74	13
HT40	64QAM	2	5270	10.01	0.79	9.22	13

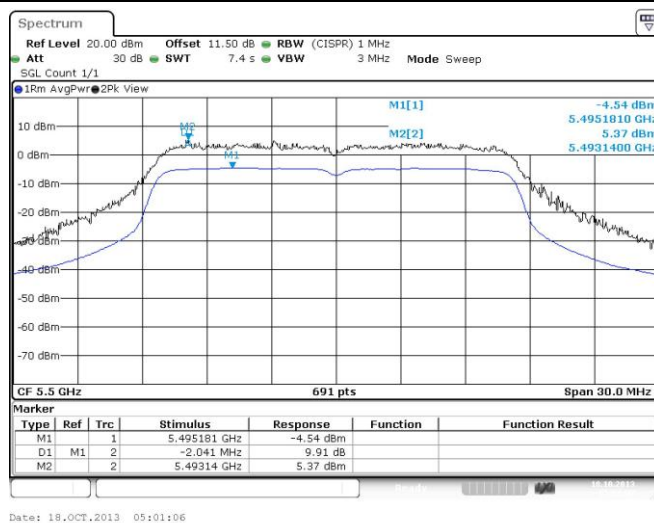
Worst Peak Excursion Plots



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

Mode	Modulation Mode	N _{TX}	Freq. (MHz)	Measured value(dB)	Duty factor (dB)	Peak Excursion (dB)	Limit
11a	BPSK	2	5500	8.69	0.03	8.66	13
11a	QPSK	2	5500	8.45	0.11	8.34	13
11a	16QAM	2	5500	8.87	0.23	8.64	13
11a	64QAM	2	5500	9.91	0.47	9.44	13
HT20	BPSK	2	5500	8.75	0.03	8.72	13
HT20	QPSK	2	5500	8.58	0.12	8.46	13
HT20	16QAM	2	5500	8.57	0.23	8.34	13
HT20	64QAM	2	5500	9.38	0.47	8.91	13
HT40	BPSK	2	5510	7.50	0.07	7.43	13
HT40	QPSK	2	5510	8.29	0.27	8.02	13
HT40	16QAM	2	5510	8.99	0.45	8.54	13
HT40	64QAM	2	5510	9.22	0.79	8.43	13

Worst Peak Excursion Plots



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

3.6 Transmitter Radiated Unwanted Emissions and Band Edge

3.6.1 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).

3.6.2 Measuring Instruments

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

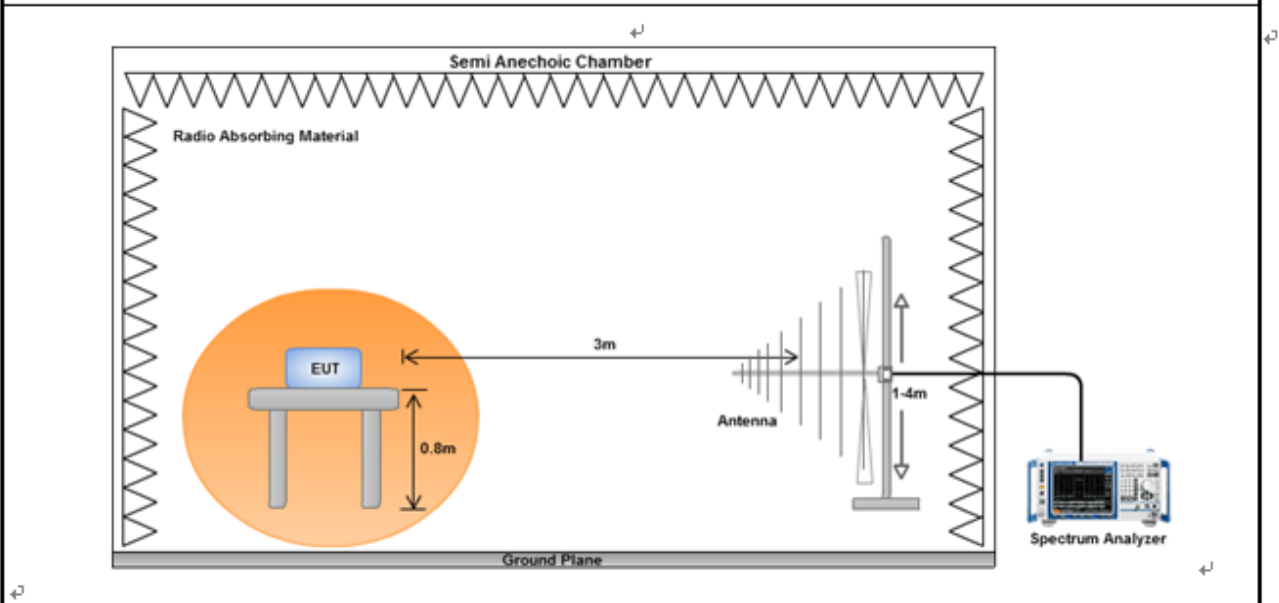
3.6.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	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).
<input checked="" type="checkbox"/>	The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
<input checked="" type="checkbox"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)2) for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method AD (Trace Averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 v01r03, H)6) Method VB (Reduced VBW).
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 v01r03, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<input checked="" type="checkbox"/>	For radiated measurement.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.

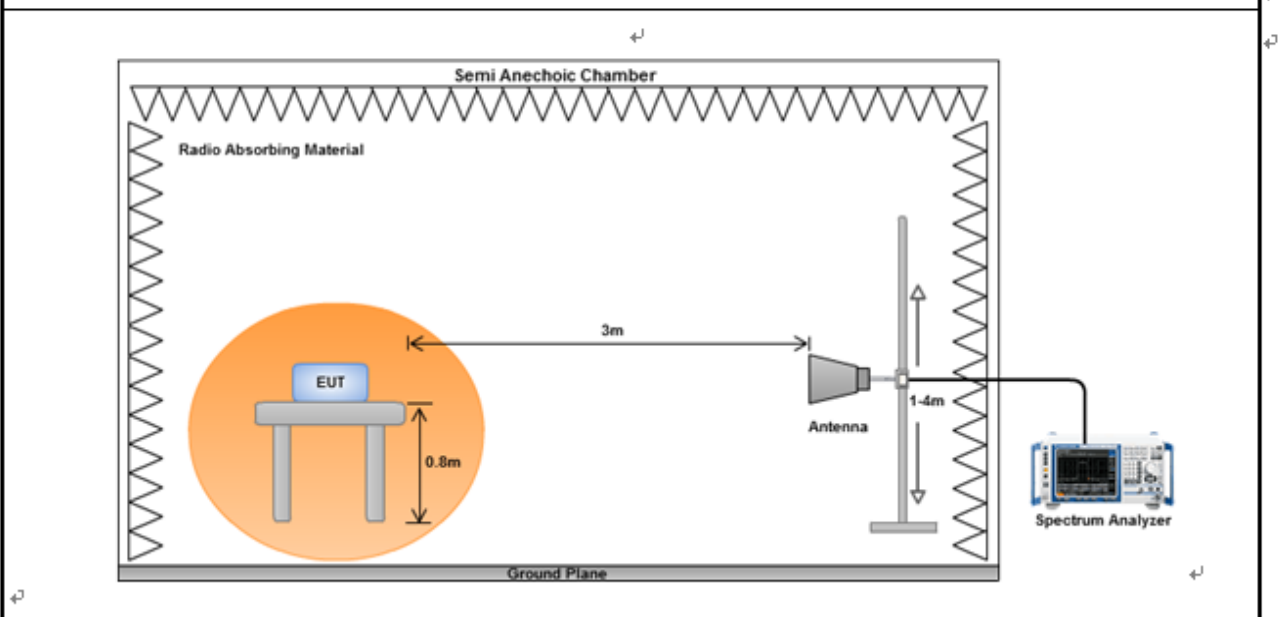
Test Method	
<input type="checkbox"/>	For conducted and cabinet radiation measurement, refer as FCC KDB 789033 v01r03, clause H)3).
<input type="checkbox"/>	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, 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.
<input type="checkbox"/>	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

3.6.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

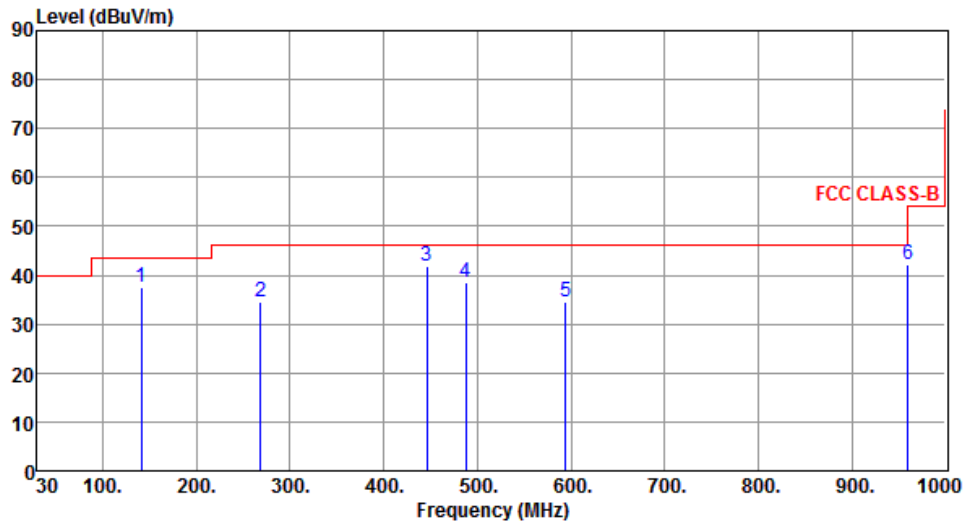


3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	V
Operating Function	AC Power & Radio link (WLAN), adapter 1		



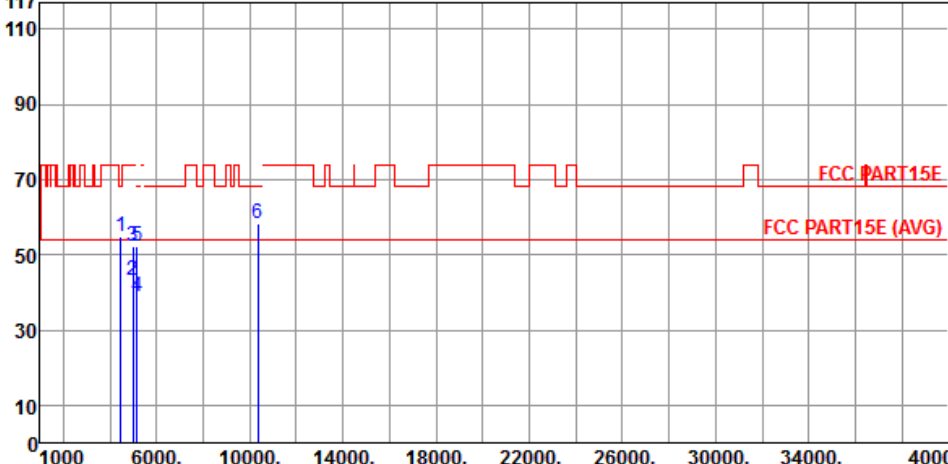
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	141.29	37.52	43.50	-5.98	54.68	-17.16	Peak	---	---
2	268.47	34.67	46.00	-11.33	51.82	-17.15	Peak	---	---
3	445.86	41.93	46.00	-4.07	54.47	-12.54	Peak	---	---
4	487.92	38.41	46.00	-7.59	50.27	-11.86	Peak	---	---
5	594.23	34.47	46.00	-11.53	44.33	-9.86	Peak	---	---
6	960.23	42.04	54.00	-11.96	46.80	-4.76	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.)

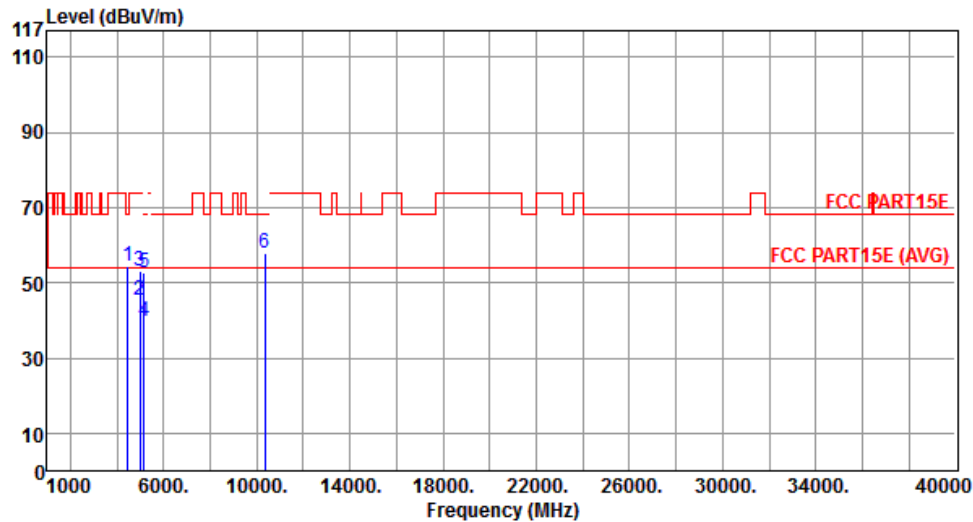
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz)																																																																																																			
Modulation Mode		11a			Test Freq. (MHz)		5180																																																																																												
N _{TX}		2			Polarization		H																																																																																												
<div><div><div>Level (dBuV/m)</div><div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4455.00</td><td>54.93</td><td>68.30</td><td>-13.37</td><td>51.86</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>5000.00</td><td>43.28</td><td>54.00</td><td>-10.72</td><td>38.67</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>3</td><td>5000.00</td><td>52.18</td><td>74.00</td><td>-21.82</td><td>47.57</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5150.00</td><td>38.90</td><td>54.00</td><td>-15.10</td><td>33.96</td><td>4.94</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5150.00</td><td>52.07</td><td>74.00</td><td>-21.93</td><td>47.13</td><td>4.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>10360.00</td><td>58.28</td><td>68.30</td><td>-10.02</td><td>43.57</td><td>14.71</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	4455.00	54.93	68.30	-13.37	51.86	3.07	Peak	---	---	2	5000.00	43.28	54.00	-10.72	38.67	4.61	Average	---	---	3	5000.00	52.18	74.00	-21.82	47.57	4.61	Peak	---	---	4	5150.00	38.90	54.00	-15.10	33.96	4.94	Average	---	---	5	5150.00	52.07	74.00	-21.93	47.13	4.94	Peak	---	---	6	10360.00	58.28	68.30	-10.02	43.57	14.71	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
	MHz	level			reading			High	Table																																																																																										
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																										
1	4455.00	54.93	68.30	-13.37	51.86	3.07	Peak	---	---																																																																																										
2	5000.00	43.28	54.00	-10.72	38.67	4.61	Average	---	---																																																																																										
3	5000.00	52.18	74.00	-21.82	47.57	4.61	Peak	---	---																																																																																										
4	5150.00	38.90	54.00	-15.10	33.96	4.94	Average	---	---																																																																																										
5	5150.00	52.07	74.00	-21.93	47.13	4.94	Peak	---	---																																																																																										
6	10360.00	58.28	68.30	-10.02	43.57	14.71	Peak	---	---																																																																																										
<div>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</div>																																																																																																			

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5180
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.52	68.30	-13.78	51.45	3.07	Peak	---	---
2	5000.00	45.13	54.00	-8.87	40.52	4.61	Average	---	---
3	5000.00	53.23	74.00	-20.77	48.62	4.61	Peak	---	---
4	5150.00	39.60	54.00	-14.40	34.66	4.94	Average	---	---
5	5150.00	52.58	74.00	-21.42	47.64	4.94	Peak	---	---
6	10360.00	57.88	68.30	-10.42	43.17	14.71	Peak	---	---

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

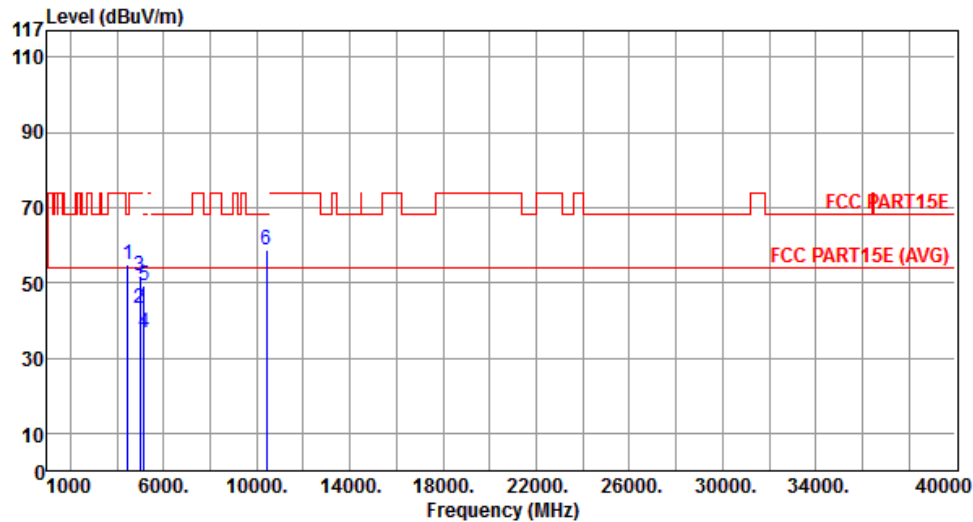
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5200
N_{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.76	68.30	-13.54	51.69	3.07	Peak	---	---
2	5000.00	43.08	54.00	-10.92	38.47	4.61	Average	---	---
3	5000.00	51.82	74.00	-22.18	47.21	4.61	Peak	---	---
4	5150.00	36.69	54.00	-17.31	31.75	4.94	Average	---	---
5	5150.00	49.18	74.00	-24.82	44.24	4.94	Peak	---	---
6	10400.00	58.67	68.30	-9.63	43.92	14.75	Peak	---	---

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

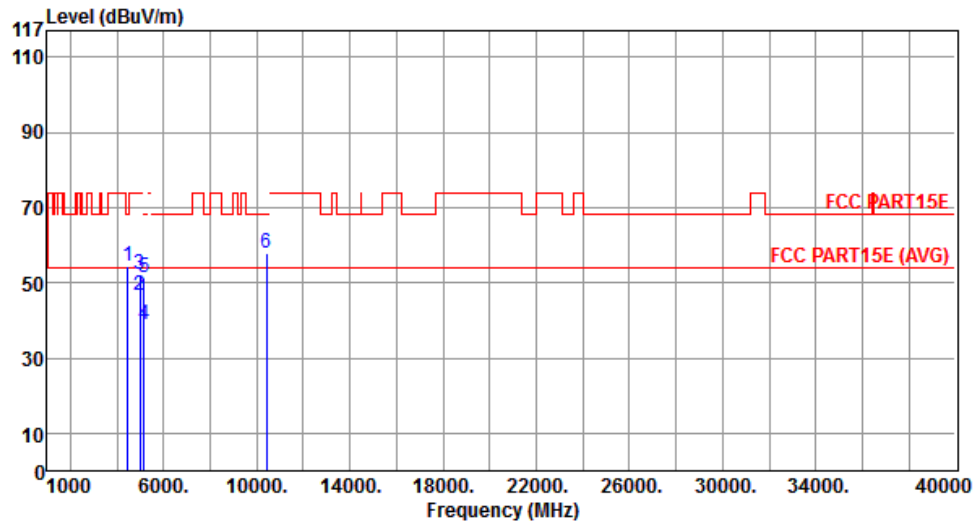
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5200
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.44	68.30	-13.86	51.37	3.07	Peak	---	---
2	5000.00	46.82	54.00	-7.18	42.21	4.61	Average	---	---
3	5000.00	52.24	74.00	-21.76	47.63	4.61	Peak	---	---
4	5150.00	38.67	54.00	-15.33	33.73	4.94	Average	---	---
5	5150.00	51.26	74.00	-22.74	46.32	4.94	Peak	---	---
6	10400.00	58.03	68.30	-10.27	43.28	14.75	Peak	---	---

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

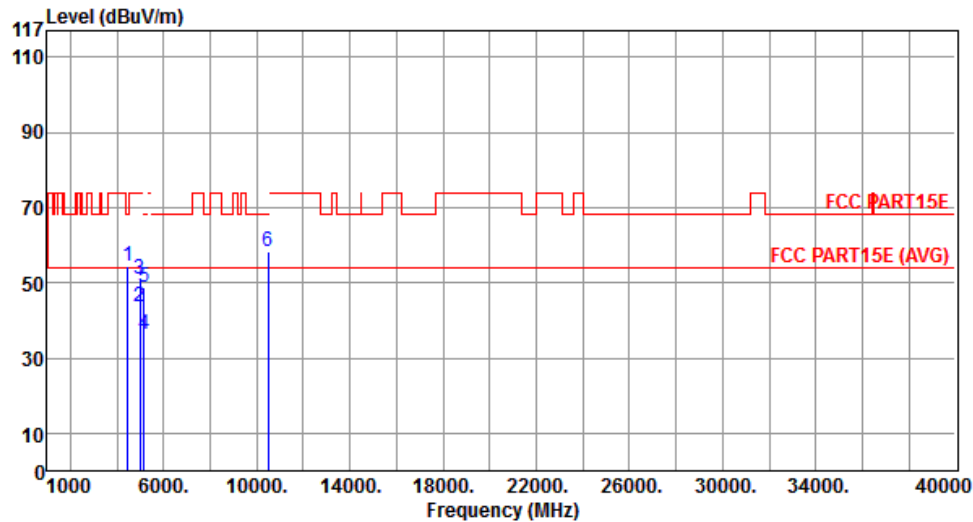
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
N_{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.30	68.30	-14.00	51.23	3.07	Peak	---	---
2	5000.00	43.48	54.00	-10.52	38.87	4.61	Average	---	---
3	5000.00	51.02	74.00	-22.98	46.41	4.61	Peak	---	---
4	5150.00	36.30	54.00	-17.70	31.36	4.94	Average	---	---
5	5150.00	48.92	74.00	-25.08	43.98	4.94	Peak	---	---
6	10480.00	58.27	68.30	-10.03	43.43	14.84	Peak	---	---

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

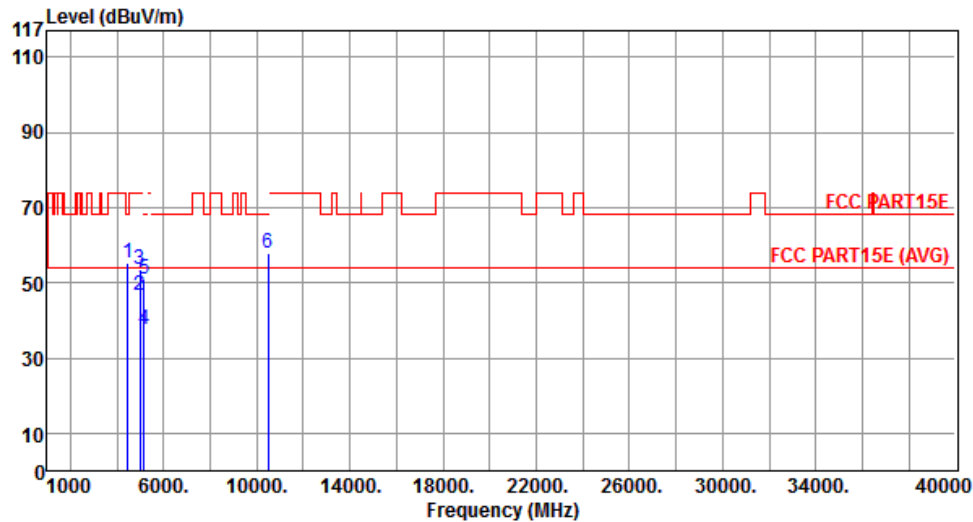
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5240
N_{TX}	2	Polarization	V



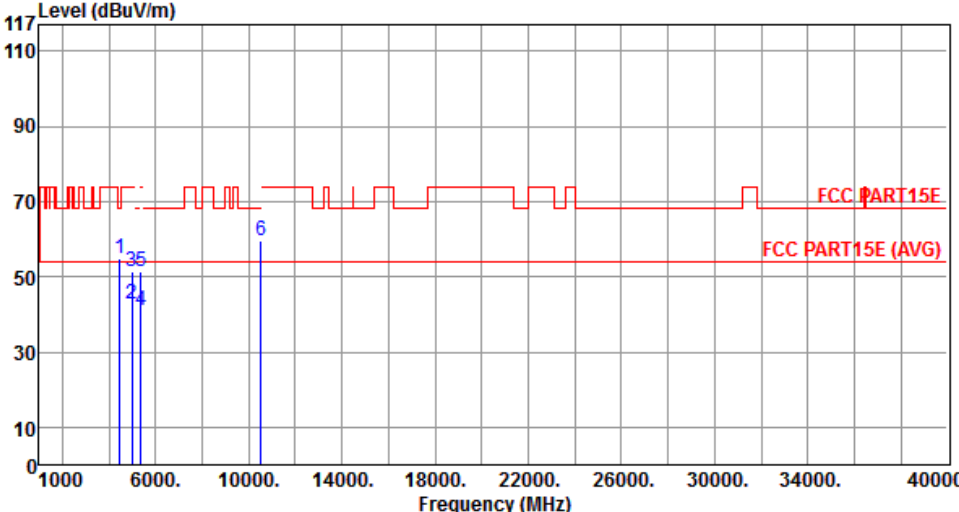
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	55.05	68.30	-13.25	51.98	3.07	Peak	---	---
2	5000.00	46.80	54.00	-7.20	42.19	4.61	Average	---	---
3	5000.00	53.34	74.00	-20.66	48.73	4.61	Peak	---	---
4	5150.00	37.62	54.00	-16.38	32.68	4.94	Average	---	---
5	5150.00	51.01	74.00	-22.99	46.07	4.94	Peak	---	---
6	10480.00	58.06	68.30	-10.24	43.22	14.84	Peak	---	---

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

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

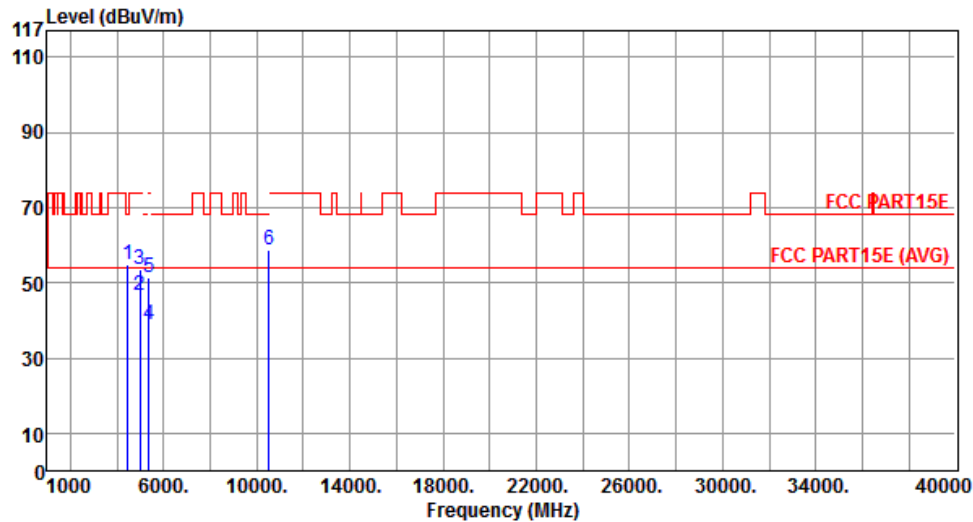
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)																																																																																																			
Modulation Mode	HT20				Test Freq. (MHz)	5180																																																																																													
N _{TX}	2				Polarization	H																																																																																													
<div></div> <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4455.00</td><td>54.98</td><td>68.30</td><td>-13.32</td><td>51.91</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>5000.00</td><td>42.56</td><td>54.00</td><td>-11.44</td><td>37.95</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>3</td><td>5000.00</td><td>51.55</td><td>74.00</td><td>-22.45</td><td>46.94</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5350.00</td><td>40.81</td><td>54.00</td><td>-13.19</td><td>35.72</td><td>5.09</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5350.00</td><td>51.38</td><td>74.00</td><td>-22.62</td><td>46.29</td><td>5.09</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>10520.00</td><td>59.50</td><td>68.30</td><td>-8.80</td><td>44.63</td><td>14.87</td><td>Peak</td><td>---</td><td>---</td></tr></table>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table						dBuV			cm	deg	1	4455.00	54.98	68.30	-13.32	51.91	3.07	Peak	---	---	2	5000.00	42.56	54.00	-11.44	37.95	4.61	Average	---	---	3	5000.00	51.55	74.00	-22.45	46.94	4.61	Peak	---	---	4	5350.00	40.81	54.00	-13.19	35.72	5.09	Average	---	---	5	5350.00	51.38	74.00	-22.62	46.29	5.09	Peak	---	---	6	10520.00	59.50	68.30	-8.80	44.63	14.87	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																										
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.82	68.30	-13.48	51.75	3.07	Peak	---	---
2	5000.00	46.80	54.00	-7.20	42.19	4.61	Average	---	---
3	5000.00	53.51	74.00	-20.49	48.90	4.61	Peak	---	---
4	5350.00	38.75	54.00	-15.25	33.66	5.09	Average	---	---
5	5350.00	51.32	74.00	-22.68	46.23	5.09	Peak	---	---
6	10520.00	58.66	68.30	-9.64	43.79	14.87	Peak	---	---

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

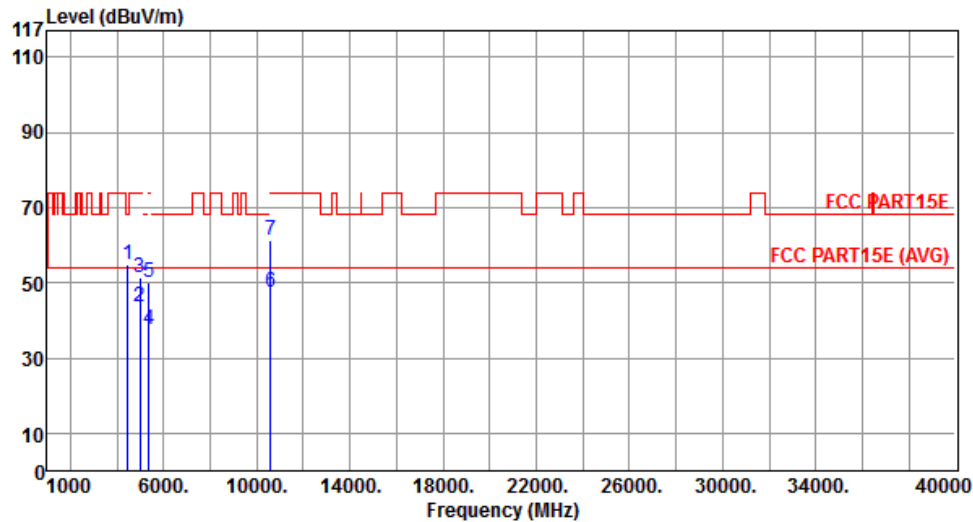
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.93	68.30	-13.37	51.86	3.07	Peak	---	---
2	5000.00	43.72	54.00	-10.28	39.11	4.61	Average	---	---
3	5000.00	51.54	74.00	-22.46	46.93	4.61	Peak	---	---
4	5350.00	37.44	54.00	-16.56	32.35	5.09	Average	---	---
5	5350.00	49.90	74.00	-24.10	44.81	5.09	Peak	---	---
6	10600.00	47.67	54.00	-6.33	32.73	14.94	Average	---	---
7	10600.00	61.14	74.00	-12.86	46.20	14.94	Peak	---	---

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

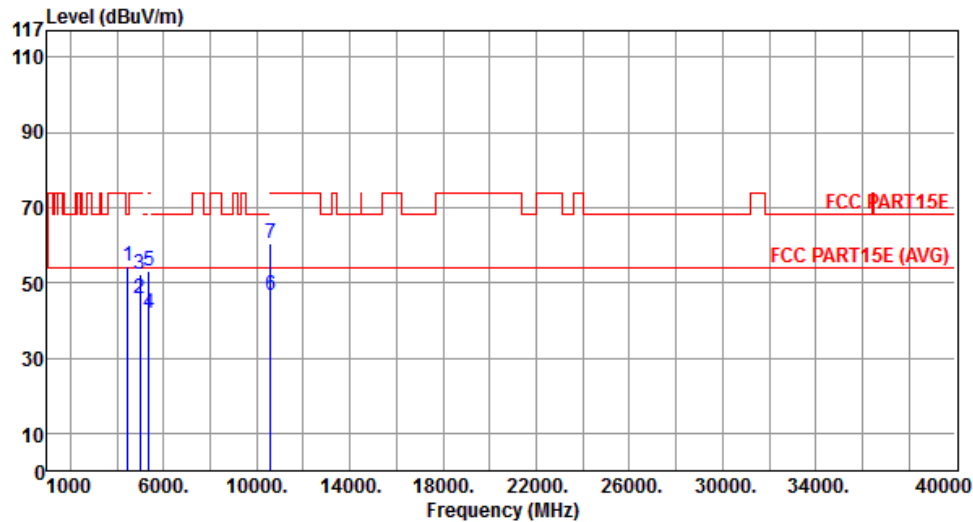
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT20	Test Freq. (MHz)	5200
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.40	68.30	-13.90	51.33	3.07	Peak	---	---
2	5000.00	45.78	54.00	-8.22	41.17	4.61	Average	---	---
3	5000.00	52.36	74.00	-21.64	47.75	4.61	Peak	---	---
4	5350.00	41.78	54.00	-12.22	36.69	5.09	Average	---	---
5	5350.00	52.99	74.00	-21.01	47.90	5.09	Peak	---	---
6	10600.00	46.80	54.00	-7.20	31.86	14.94	Average	---	---
7	10600.00	60.58	74.00	-13.42	45.64	14.94	Peak	---	---

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

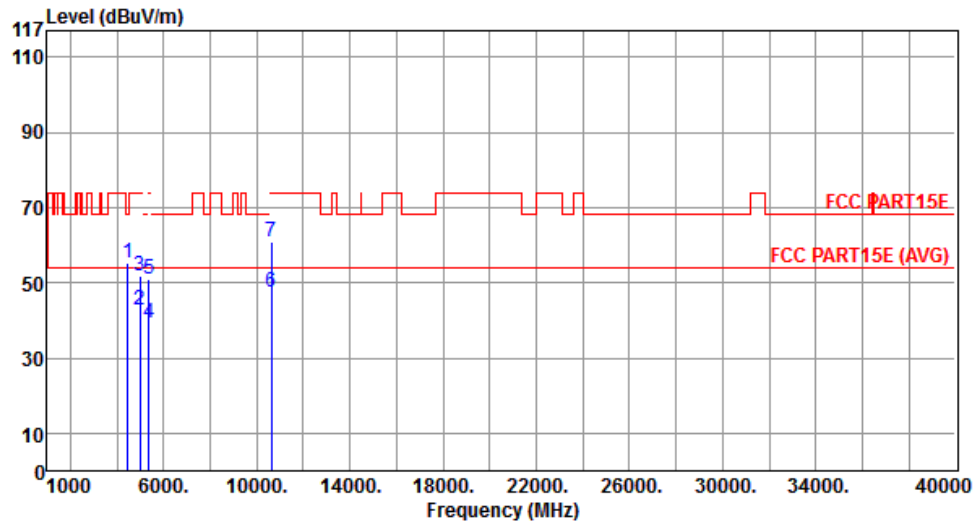
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	55.11	68.30	-13.19	52.04	3.07	Peak	---	---
2	5000.00	42.72	54.00	-11.28	38.11	4.61	Average	---	---
3	5000.00	51.84	74.00	-22.16	47.23	4.61	Peak	---	---
4	5360.00	39.38	54.00	-14.62	34.29	5.09	Average	---	---
5	5360.00	50.94	74.00	-23.06	45.85	5.09	Peak	---	---
6	10640.00	47.35	54.00	-6.65	32.37	14.98	Average	---	---
7	10640.00	60.96	74.00	-13.04	45.98	14.98	Peak	---	---

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

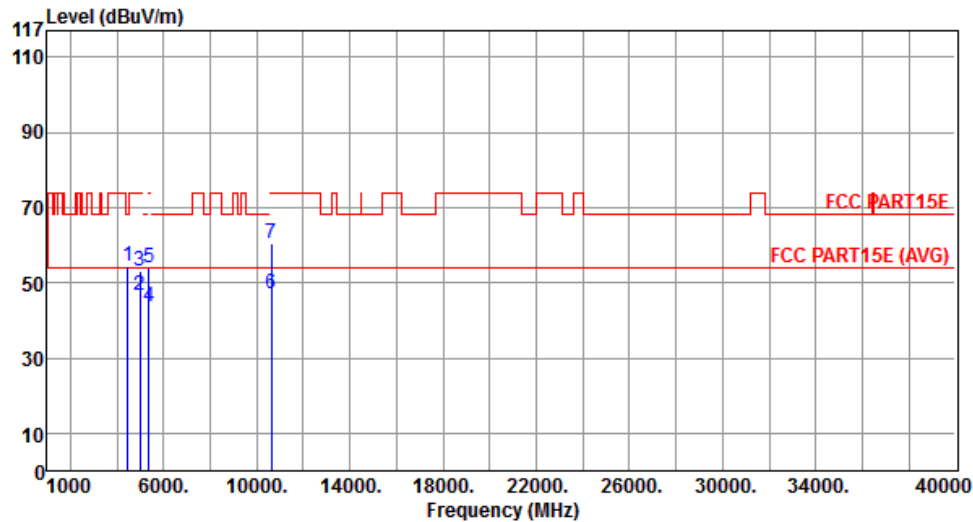
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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



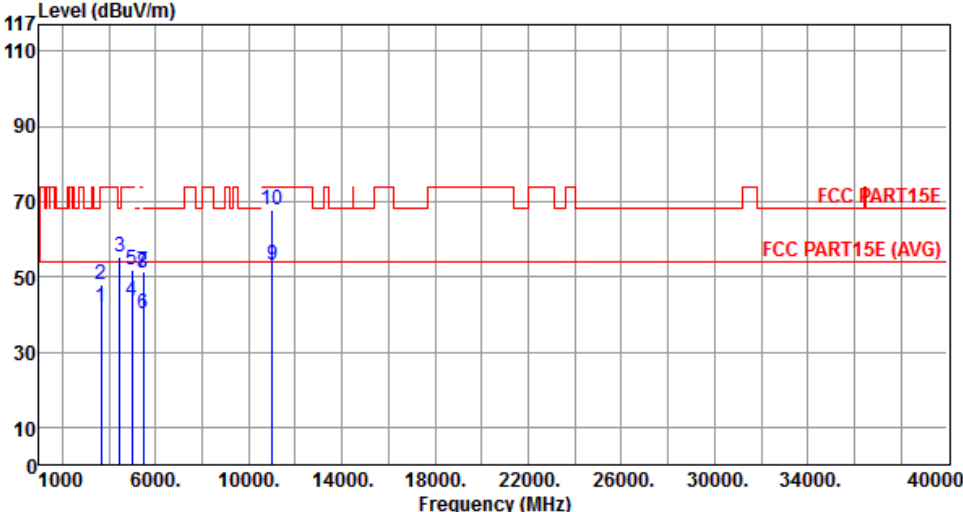
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.31	68.30	-13.99	51.24	3.07	Peak	---	---
2	5000.00	46.48	54.00	-7.52	41.87	4.61	Average	---	---
3	5000.00	53.23	74.00	-20.77	48.62	4.61	Peak	---	---
4	5360.00	43.82	54.00	-10.18	38.73	5.09	Average	---	---
5	5360.00	53.86	74.00	-20.14	48.77	5.09	Peak	---	---
6	10640.00	46.85	54.00	-7.15	31.87	14.98	Average	---	---
7	10640.00	60.37	74.00	-13.63	45.39	14.98	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.)

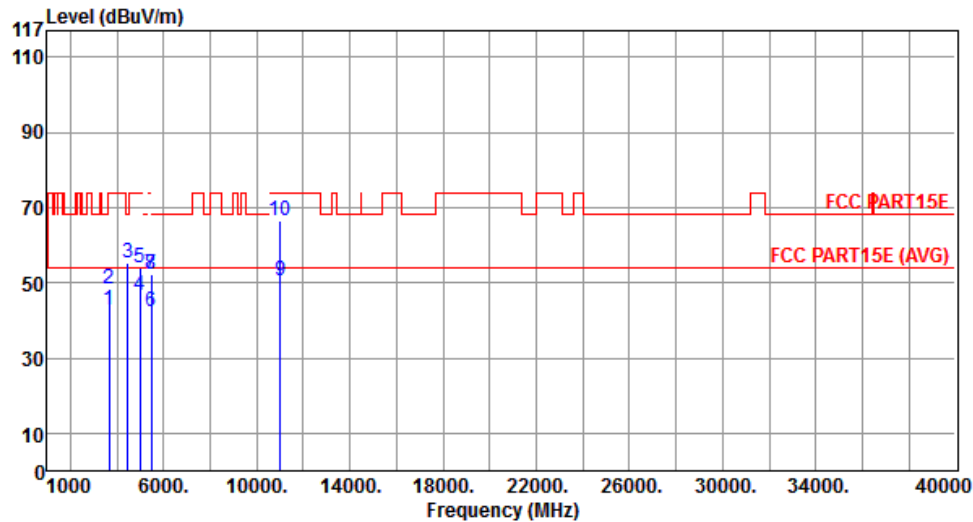
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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	HT40				Test Freq. (MHz)	5190																																																																																																																																					
N _{TX}	2				Polarization	H																																																																																																																																					
<div><div><div>Level (dBuV/m)</div><div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>3666.66</td><td>41.70</td><td>54.00</td><td>-12.30</td><td>41.02</td><td>0.68</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>3666.66</td><td>47.88</td><td>74.00</td><td>-26.12</td><td>47.20</td><td>0.68</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>4455.00</td><td>55.28</td><td>68.30</td><td>-13.02</td><td>52.21</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5000.00</td><td>43.40</td><td>54.00</td><td>-10.60</td><td>38.79</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5000.00</td><td>51.82</td><td>74.00</td><td>-22.18</td><td>47.21</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>5460.00</td><td>40.08</td><td>54.00</td><td>-13.92</td><td>34.90</td><td>5.18</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>7</td><td>5460.00</td><td>51.19</td><td>74.00</td><td>-22.81</td><td>46.01</td><td>5.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>8</td><td>5470.00</td><td>50.77</td><td>68.30</td><td>-17.53</td><td>45.58</td><td>5.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>9</td><td>11000.00</td><td>52.89</td><td>54.00</td><td>-1.11</td><td>37.61</td><td>15.28</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>10</td><td>11000.00</td><td>67.86</td><td>74.00</td><td>-6.14</td><td>52.58</td><td>15.28</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level			reading			High	Table			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	3666.66	41.70	54.00	-12.30	41.02	0.68	Average	---	---	2	3666.66	47.88	74.00	-26.12	47.20	0.68	Peak	---	---	3	4455.00	55.28	68.30	-13.02	52.21	3.07	Peak	---	---	4	5000.00	43.40	54.00	-10.60	38.79	4.61	Average	---	---	5	5000.00	51.82	74.00	-22.18	47.21	4.61	Peak	---	---	6	5460.00	40.08	54.00	-13.92	34.90	5.18	Average	---	---	7	5460.00	51.19	74.00	-22.81	46.01	5.18	Peak	---	---	8	5470.00	50.77	68.30	-17.53	45.58	5.19	Peak	---	---	9	11000.00	52.89	54.00	-1.11	37.61	15.28	Average	---	---	10	11000.00	67.86	74.00	-6.14	52.58	15.28	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																		
	MHz	level			reading			High	Table																																																																																																																																		
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4	5000.00	43.40	54.00	-10.60	38.79	4.61	Average	---	---																																																																																																																																		
5	5000.00	51.82	74.00	-22.18	47.21	4.61	Peak	---	---																																																																																																																																		
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3666.66	42.70	54.00	-11.30	42.02	0.68	Average	---	---
2	3666.66	48.46	74.00	-25.54	47.78	0.68	Peak	---	---
3	4455.00	55.38	68.30	-12.92	52.31	3.07	Peak	---	---
4	5000.00	46.80	54.00	-7.20	42.19	4.61	Average	---	---
5	5000.00	53.91	74.00	-20.09	49.30	4.61	Peak	---	---
6	5460.00	42.52	54.00	-11.48	37.34	5.18	Average	---	---
7	5460.00	52.30	74.00	-21.70	47.12	5.18	Peak	---	---
8	5470.00	52.29	68.30	-16.01	47.10	5.19	Peak	---	---
9	11000.00	50.48	54.00	-3.52	35.20	15.28	Average	---	---
10	11000.00	66.28	74.00	-7.72	51.00	15.28	Peak	---	---

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

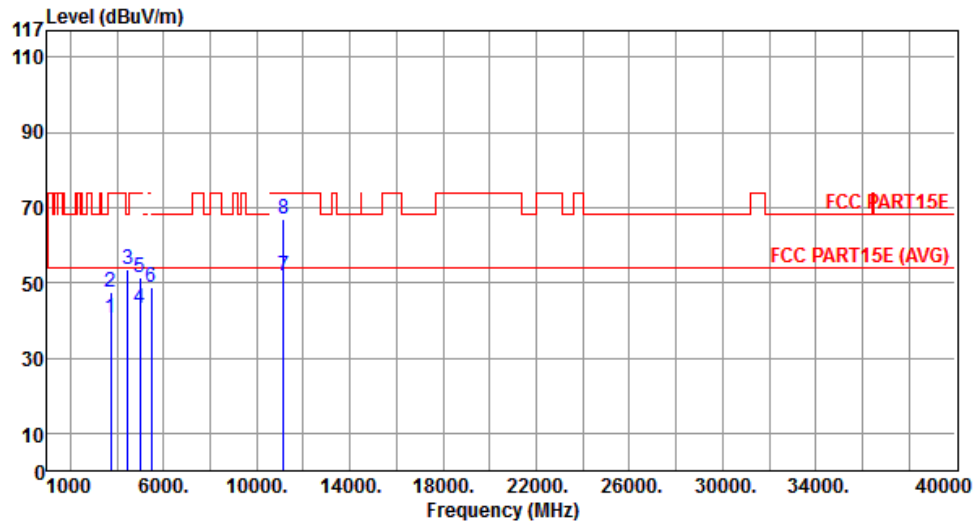
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3720.00	40.40	54.00	-13.60	39.56	0.84	Average	---	---
2	3720.00	47.39	74.00	-26.61	46.55	0.84	Peak	---	---
3	4455.00	53.74	68.30	-14.56	50.67	3.07	Peak	---	---
4	5000.00	43.13	54.00	-10.87	38.52	4.61	Average	---	---
5	5000.00	51.51	74.00	-22.49	46.90	4.61	Peak	---	---
6	5470.00	48.70	68.30	-19.60	43.51	5.19	Peak	---	---
7	11160.00	51.77	54.00	-2.23	36.59	15.18	Average	---	---
8	11160.00	67.03	74.00	-6.97	51.85	15.18	Peak	---	---

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

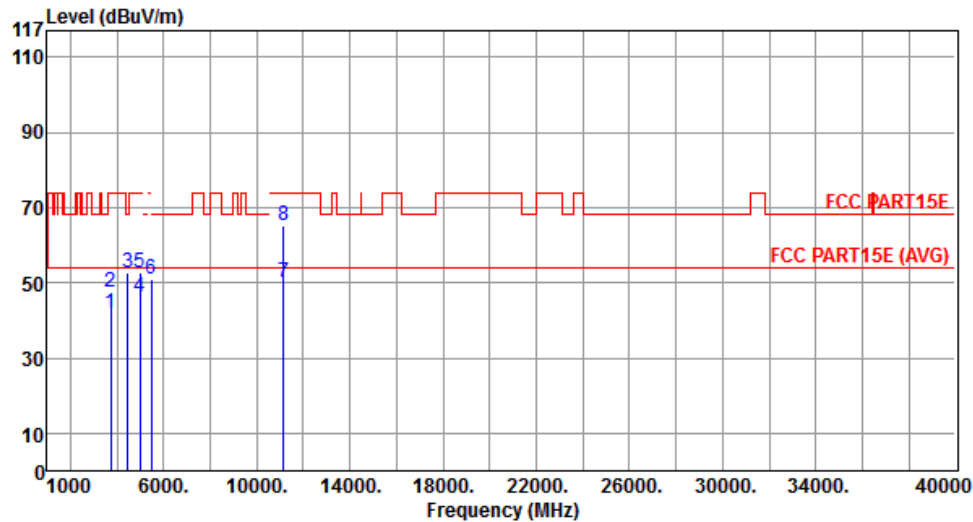
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



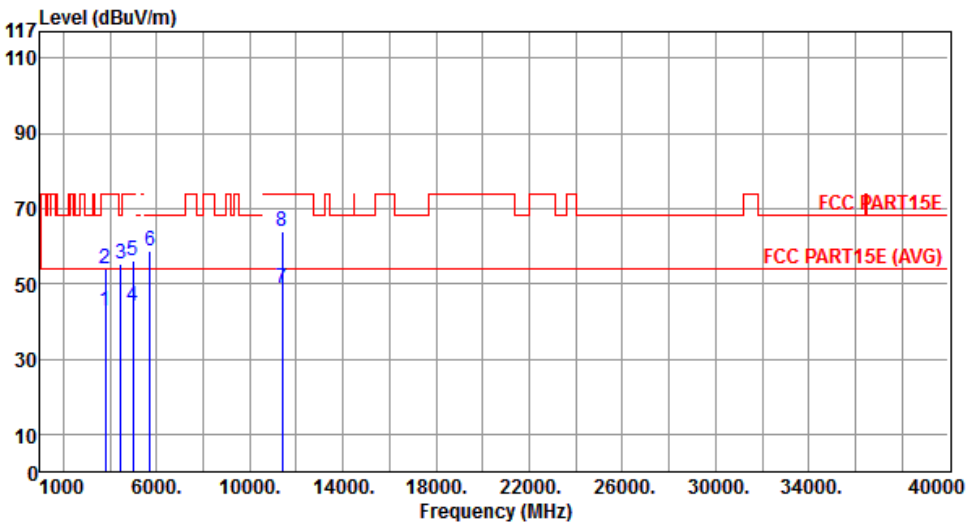
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3720.00	41.90	54.00	-12.10	41.06	0.84	Average	---	---
2	3720.00	47.55	74.00	-26.45	46.71	0.84	Peak	---	---
3	4455.00	52.69	68.30	-15.61	49.62	3.07	Peak	---	---
4	5000.00	46.29	54.00	-7.71	41.68	4.61	Average	---	---
5	5000.00	52.85	74.00	-21.15	48.24	4.61	Peak	---	---
6	5470.00	50.86	68.30	-17.44	45.67	5.19	Peak	---	---
7	11160.00	50.28	54.00	-3.72	35.10	15.18	Average	---	---
8	11160.00	65.23	74.00	-8.77	50.05	15.18	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.)

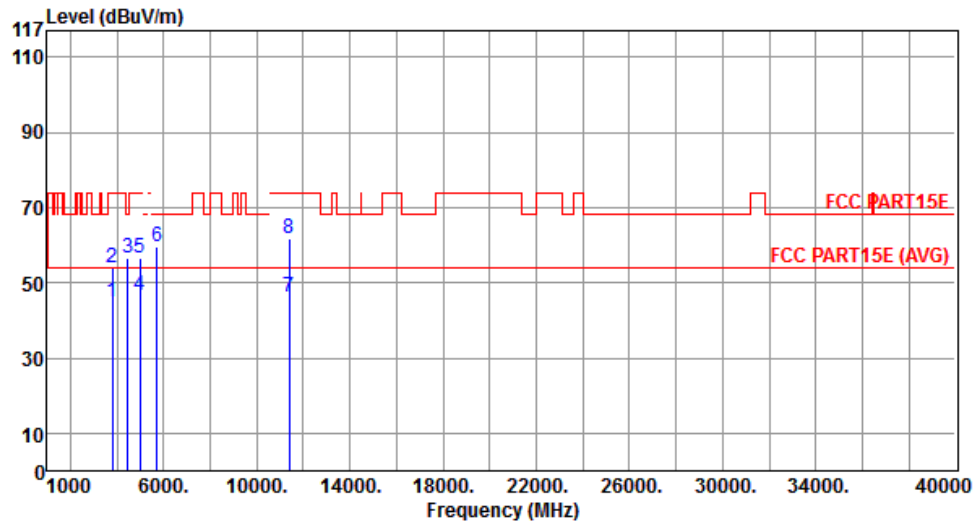
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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																																																																																													
N _{TX}	2				Polarization	H																																																																																													
<div><div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>3800.00</td><td>42.89</td><td>54.00</td><td>-11.11</td><td>41.79</td><td>1.10</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>3800.00</td><td>53.77</td><td>74.00</td><td>-20.23</td><td>52.67</td><td>1.10</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>4455.00</td><td>55.30</td><td>68.30</td><td>-13.00</td><td>52.23</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5000.00</td><td>44.20</td><td>54.00</td><td>-9.80</td><td>39.59</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5000.00</td><td>56.10</td><td>74.00</td><td>-17.90</td><td>51.49</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>5725.00</td><td>58.58</td><td>68.30</td><td>-9.72</td><td>53.02</td><td>5.56</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>7</td><td>11400.00</td><td>48.88</td><td>54.00</td><td>-5.12</td><td>33.85</td><td>15.03</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>8</td><td>11400.00</td><td>63.78</td><td>74.00</td><td>-10.22</td><td>48.75</td><td>15.03</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	3800.00	42.89	54.00	-11.11	41.79	1.10	Average	---	---	2	3800.00	53.77	74.00	-20.23	52.67	1.10	Peak	---	---	3	4455.00	55.30	68.30	-13.00	52.23	3.07	Peak	---	---	4	5000.00	44.20	54.00	-9.80	39.59	4.61	Average	---	---	5	5000.00	56.10	74.00	-17.90	51.49	4.61	Peak	---	---	6	5725.00	58.58	68.30	-9.72	53.02	5.56	Peak	---	---	7	11400.00	48.88	54.00	-5.12	33.85	15.03	Average	---	---	8	11400.00	63.78	74.00	-10.22	48.75	15.03	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																										
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5260
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3800.00	44.70	54.00	-9.30	43.60	1.10	Average	---	---
2	3800.00	54.06	74.00	-19.94	52.96	1.10	Peak	---	---
3	4455.00	56.52	68.30	-11.78	53.45	3.07	Peak	---	---
4	5000.00	46.52	54.00	-7.48	41.91	4.61	Average	---	---
5	5000.00	56.51	74.00	-17.49	51.90	4.61	Peak	---	---
6	5725.00	59.52	68.30	-8.78	53.96	5.56	Peak	---	---
7	11400.00	46.22	54.00	-7.78	31.19	15.03	Average	---	---
8	11400.00	61.69	74.00	-12.31	46.66	15.03	Peak	---	---

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

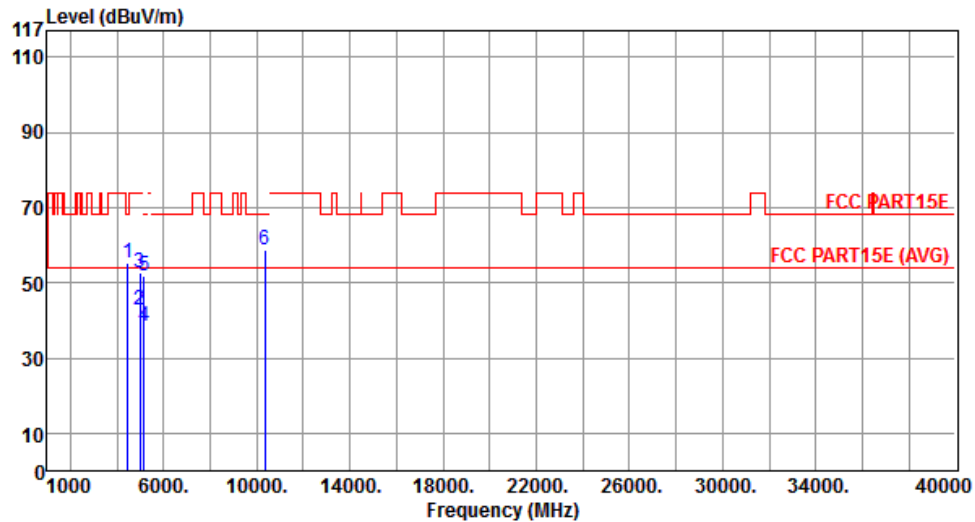
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
N_{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	55.38	68.30	-12.92	52.31	3.07	Peak	---	---
2	5000.00	42.73	54.00	-11.27	38.12	4.61	Average	---	---
3	5000.00	52.48	74.00	-21.52	47.87	4.61	Peak	---	---
4	5150.00	38.27	54.00	-15.73	33.33	4.94	Average	---	---
5	5150.00	51.75	74.00	-22.25	46.81	4.94	Peak	---	---
6	10360.00	58.56	68.30	-9.74	43.85	14.71	Peak	---	---

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

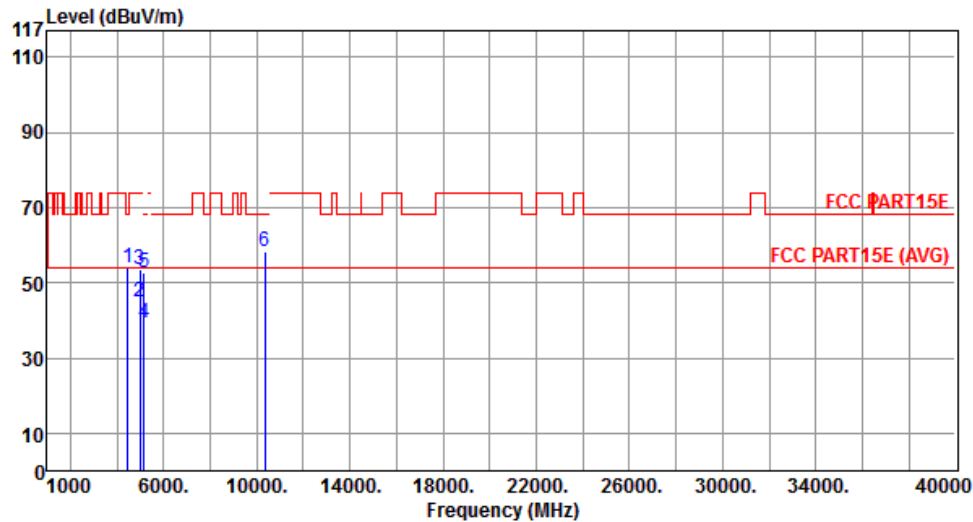
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5300
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.03	68.30	-14.27	50.96	3.07	Peak	---	---
2	5000.00	44.87	54.00	-9.13	40.26	4.61	Average	---	---
3	5000.00	53.32	74.00	-20.68	48.71	4.61	Peak	---	---
4	5150.00	39.28	54.00	-14.72	34.34	4.94	Average	---	---
5	5150.00	52.69	74.00	-21.31	47.75	4.94	Peak	---	---
6	10360.00	58.09	68.30	-10.21	43.38	14.71	Peak	---	---

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

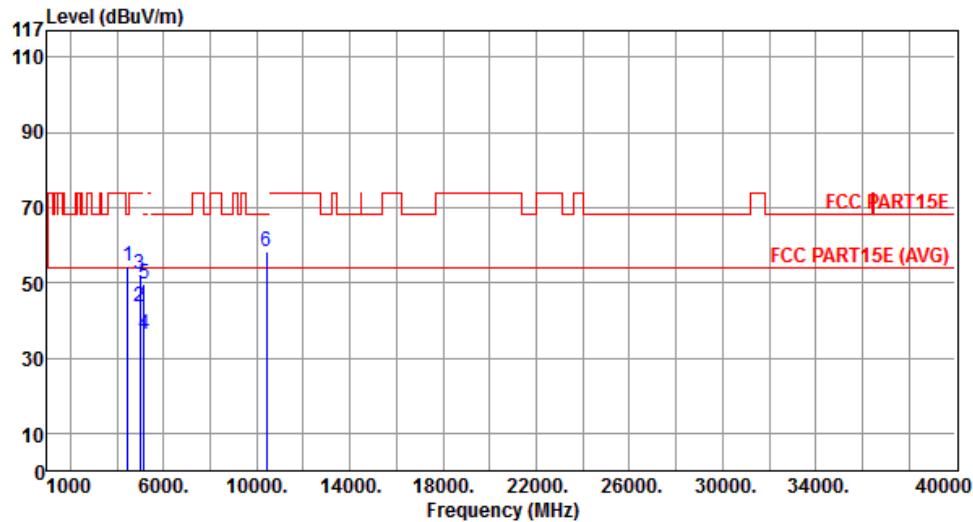
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
N_{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.43	68.30	-13.87	51.36	3.07	Peak	---	---
2	5000.00	43.53	54.00	-10.47	38.92	4.61	Average	---	---
3	5000.00	52.14	74.00	-21.86	47.53	4.61	Peak	---	---
4	5150.00	36.36	54.00	-17.64	31.42	4.94	Average	---	---
5	5150.00	49.47	74.00	-24.53	44.53	4.94	Peak	---	---
6	10400.00	58.33	68.30	-9.97	43.58	14.75	Peak	---	---

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

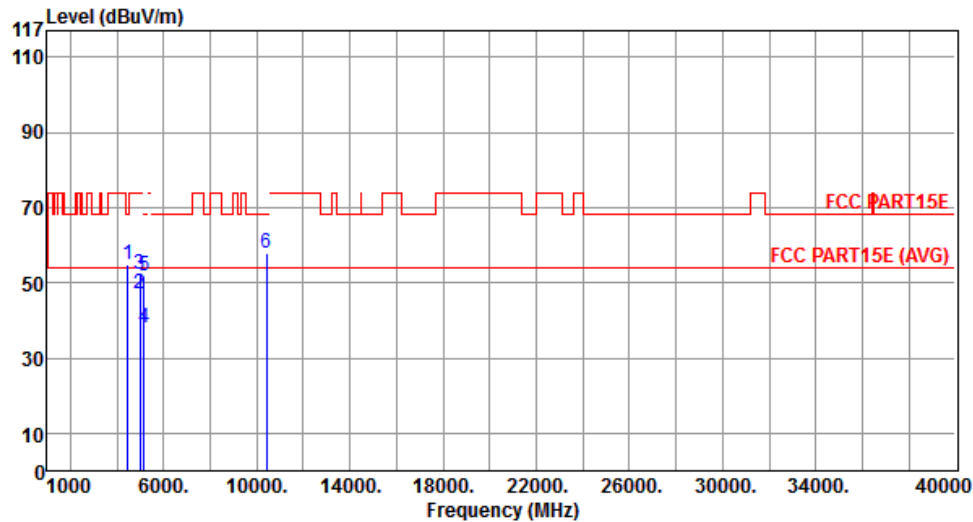
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5320
N_{TX}	2	Polarization	V



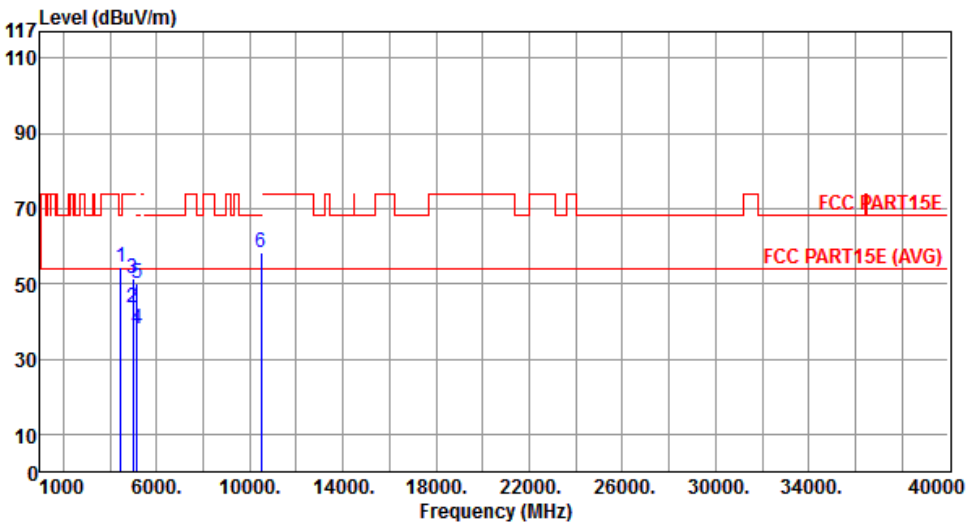
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.94	68.30	-13.36	51.87	3.07	Peak	---	---
2	5000.00	47.00	54.00	-7.00	42.39	4.61	Average	---	---
3	5000.00	52.45	74.00	-21.55	47.84	4.61	Peak	---	---
4	5150.00	38.19	54.00	-15.81	33.25	4.94	Average	---	---
5	5150.00	51.78	74.00	-22.22	46.84	4.94	Peak	---	---
6	10400.00	57.87	68.30	-10.43	43.12	14.75	Peak	---	---

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

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

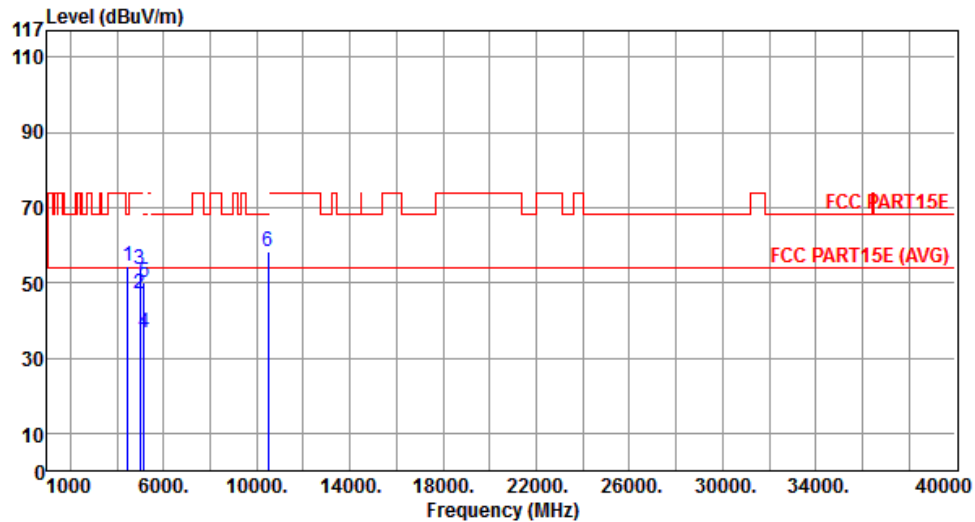
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)																																																																															
Modulation Mode		HT20			Test Freq. (MHz)		5260																																																																								
N _{TX}		2			Polarization		H																																																																								
<div><div><div>Level (dBUV/m)</div><div></div></div><table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>4455.00</td><td>54.59</td><td>68.30</td><td>-13.71</td><td>51.52</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>5000.00</td><td>43.63</td><td>54.00</td><td>-10.37</td><td>39.02</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>3</td><td>5000.00</td><td>51.18</td><td>74.00</td><td>-22.82</td><td>46.57</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5150.00</td><td>37.99</td><td>54.00</td><td>-16.01</td><td>33.05</td><td>4.94</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5150.00</td><td>50.23</td><td>74.00</td><td>-23.77</td><td>45.29</td><td>4.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>10480.00</td><td>58.45</td><td>68.30</td><td>-9.85</td><td>43.61</td><td>14.84</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table></div>											Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	4455.00	54.59	68.30	-13.71	51.52	3.07	Peak	---	---	2	5000.00	43.63	54.00	-10.37	39.02	4.61	Average	---	---	3	5000.00	51.18	74.00	-22.82	46.57	4.61	Peak	---	---	4	5150.00	37.99	54.00	-16.01	33.05	4.94	Average	---	---	5	5150.00	50.23	74.00	-23.77	45.29	4.94	Peak	---	---	6	10480.00	58.45	68.30	-9.85	43.61	14.84	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.49	68.30	-13.81	51.42	3.07	Peak	---	---
2	5000.00	46.97	54.00	-7.03	42.36	4.61	Average	---	---
3	5000.00	53.52	74.00	-20.48	48.91	4.61	Peak	---	---
4	5150.00	36.67	54.00	-17.33	31.73	4.94	Average	---	---
5	5150.00	50.22	74.00	-23.78	45.28	4.94	Peak	---	---
6	10480.00	58.38	68.30	-9.92	43.54	14.84	Peak	---	---

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

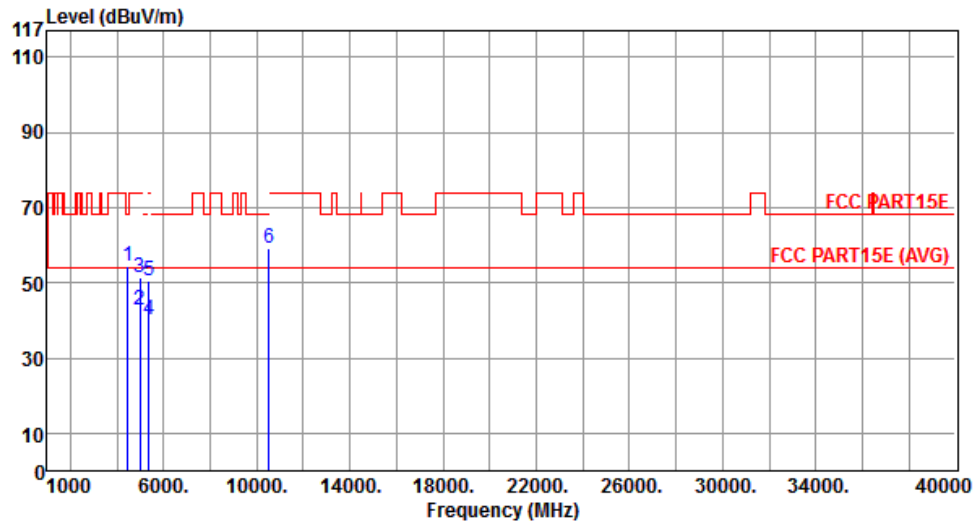
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.53	68.30	-13.77	51.46	3.07	Peak	---	---
2	5000.00	42.64	54.00	-11.36	38.03	4.61	Average	---	---
3	5000.00	51.20	74.00	-22.80	46.59	4.61	Peak	---	---
4	5350.00	39.96	54.00	-14.04	34.87	5.09	Average	---	---
5	5350.00	50.43	74.00	-23.57	45.34	5.09	Peak	---	---
6	10520.00	59.27	68.30	-9.03	44.40	14.87	Peak	---	---

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

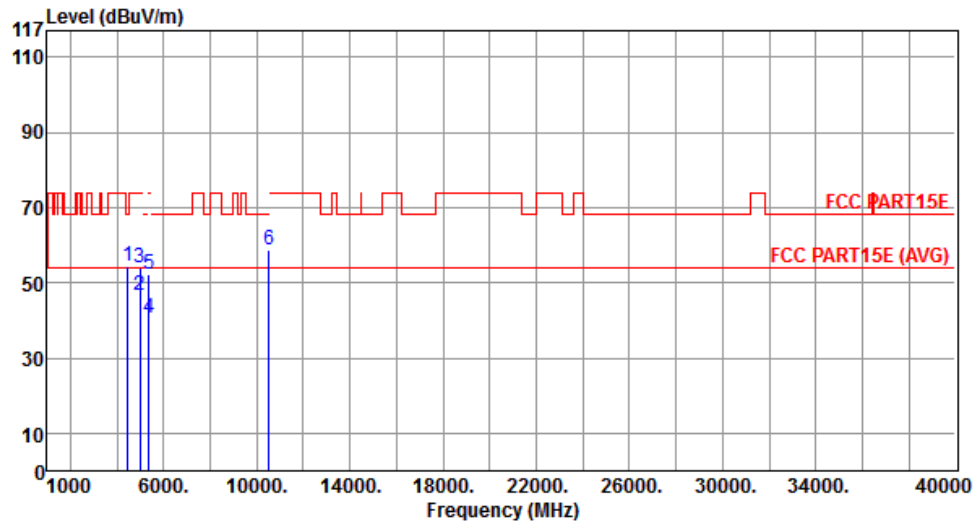
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



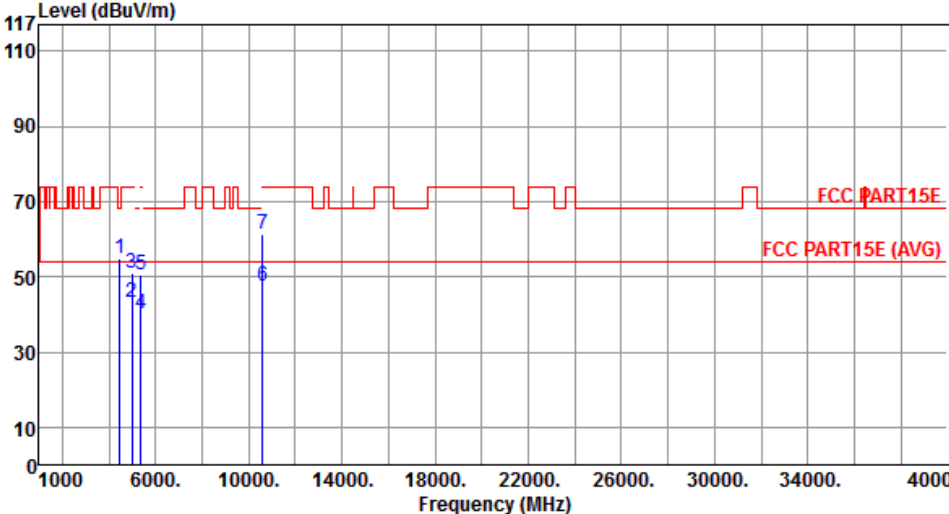
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.46	68.30	-13.84	51.39	3.07	Peak	---	---
2	5000.00	46.64	54.00	-7.36	42.03	4.61	Average	---	---
3	5000.00	53.77	74.00	-20.23	49.16	4.61	Peak	---	---
4	5350.00	40.51	54.00	-13.49	35.42	5.09	Average	---	---
5	5350.00	52.08	74.00	-21.92	46.99	5.09	Peak	---	---
6	10520.00	58.72	68.30	-9.58	43.85	14.87	Peak	---	---

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

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

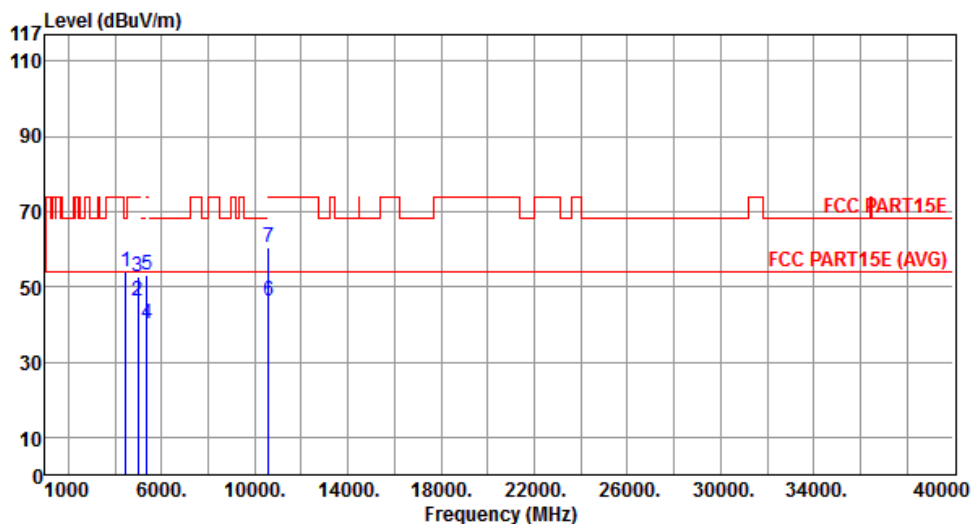
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)																																																																																																													
Modulation Mode	HT20				Test Freq. (MHz)	5320																																																																																																							
N _{TX}	2				Polarization	H																																																																																																							
<div><div><div>Level (dBUV/m)</div><div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4455.00</td><td>54.71</td><td>68.30</td><td>-13.59</td><td>51.64</td><td>3.07</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>5000.00</td><td>43.07</td><td>54.00</td><td>-10.93</td><td>38.46</td><td>4.61</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>3</td><td>5000.00</td><td>50.86</td><td>74.00</td><td>-23.14</td><td>46.25</td><td>4.61</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>5350.00</td><td>40.18</td><td>54.00</td><td>-13.82</td><td>35.09</td><td>5.09</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>5</td><td>5350.00</td><td>50.38</td><td>74.00</td><td>-23.62</td><td>45.29</td><td>5.09</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>10600.00</td><td>47.55</td><td>54.00</td><td>-6.45</td><td>32.61</td><td>14.94</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>7</td><td>10600.00</td><td>61.41</td><td>74.00</td><td>-12.59</td><td>46.47</td><td>14.94</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>											Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table						dBuV			cm	deg	1	4455.00	54.71	68.30	-13.59	51.64	3.07	Peak	---	---	2	5000.00	43.07	54.00	-10.93	38.46	4.61	Average	---	---	3	5000.00	50.86	74.00	-23.14	46.25	4.61	Peak	---	---	4	5350.00	40.18	54.00	-13.82	35.09	5.09	Average	---	---	5	5350.00	50.38	74.00	-23.62	45.29	5.09	Peak	---	---	6	10600.00	47.55	54.00	-6.45	32.61	14.94	Average	---	---	7	10600.00	61.41	74.00	-12.59	46.47	14.94	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																				
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																				
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1	4455.00	54.71	68.30	-13.59	51.64	3.07	Peak	---	---																																																																																																				
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<div>Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.</div>																																																																																																													

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.13	68.30	-14.17	51.06	3.07	Peak	---	---
2	5000.00	46.00	54.00	-8.00	41.39	4.61	Average	---	---
3	5000.00	52.47	74.00	-21.53	47.86	4.61	Peak	---	---
4	5350.00	40.36	54.00	-13.64	35.27	5.09	Average	---	---
5	5350.00	53.20	74.00	-20.80	48.11	5.09	Peak	---	---
6	10600.00	46.19	54.00	-7.81	31.25	14.94	Average	---	---
7	10600.00	60.52	74.00	-13.48	45.58	14.94	Peak	---	---

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

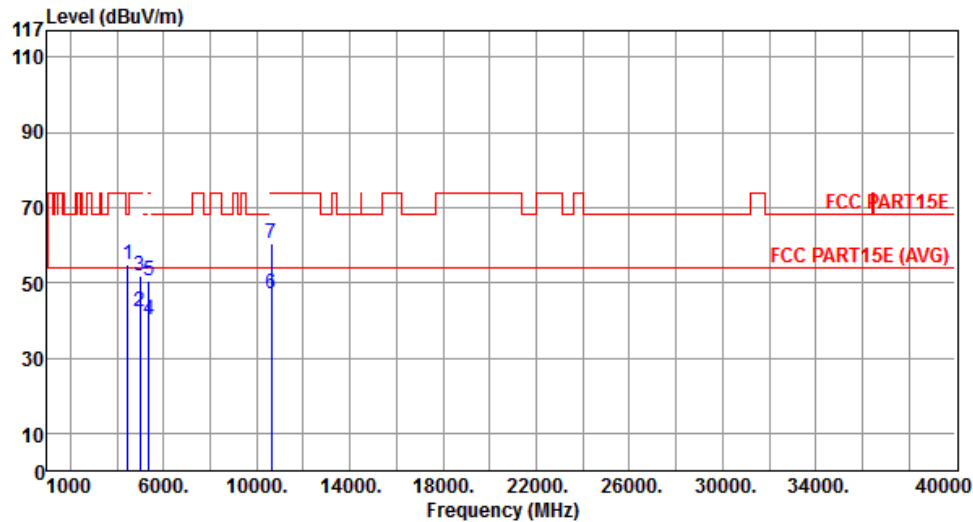
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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)	5270
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.90	68.30	-13.40	51.83	3.07	Peak	---	---
2	5000.00	42.26	54.00	-11.74	37.65	4.61	Average	---	---
3	5000.00	51.70	74.00	-22.30	47.09	4.61	Peak	---	---
4	5360.00	39.97	54.00	-14.03	34.88	5.09	Average	---	---
5	5360.00	50.51	74.00	-23.49	45.42	5.09	Peak	---	---
6	10640.00	46.96	54.00	-7.04	31.98	14.98	Average	---	---
7	10640.00	60.50	74.00	-13.50	45.52	14.98	Peak	---	---

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

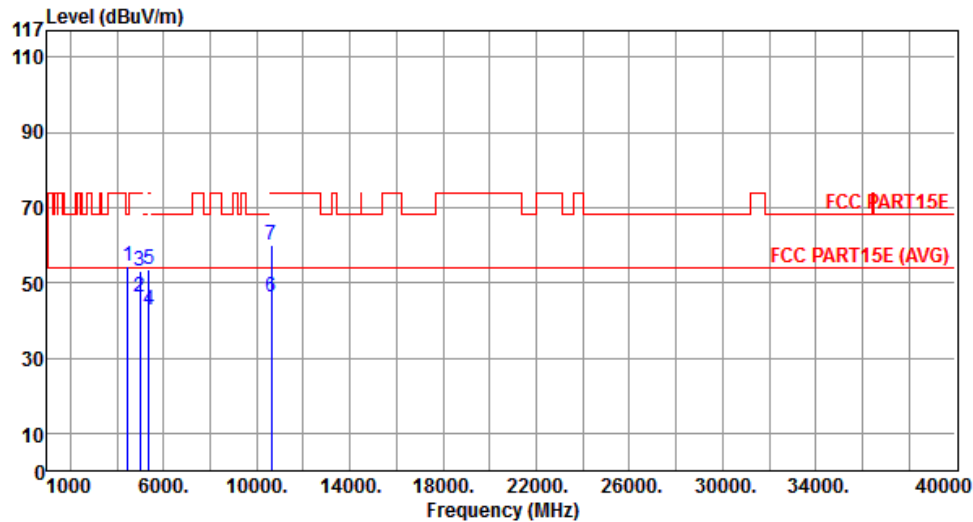
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT40	Test Freq. (MHz)	5270
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4455.00	54.55	68.30	-13.75	51.48	3.07	Peak	---	---
2	5000.00	46.06	54.00	-7.94	41.45	4.61	Average	---	---
3	5000.00	53.18	74.00	-20.82	48.57	4.61	Peak	---	---
4	5360.00	42.65	54.00	-11.35	37.56	5.09	Average	---	---
5	5360.00	53.45	74.00	-20.55	48.36	5.09	Peak	---	---
6	10640.00	46.31	54.00	-7.69	31.33	14.98	Average	---	---
7	10640.00	60.16	74.00	-13.84	45.18	14.98	Peak	---	---

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

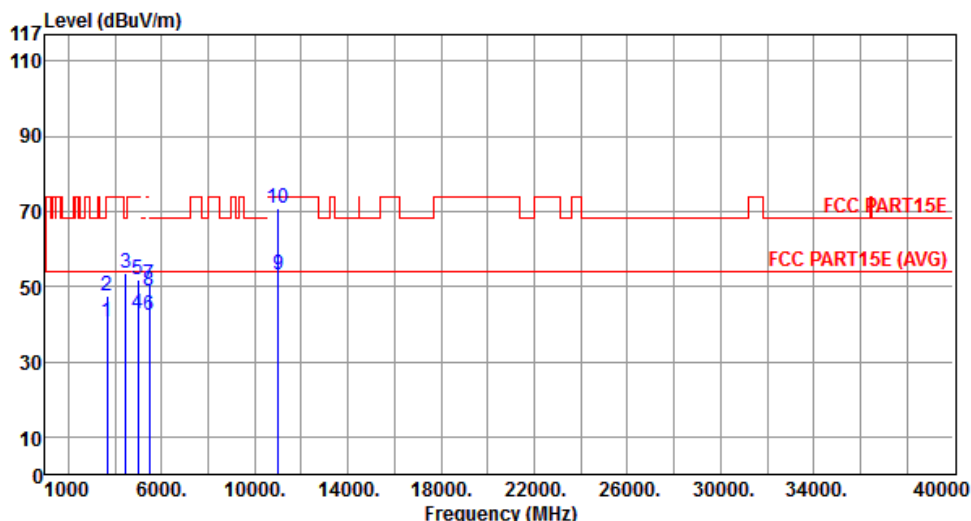
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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	HT40	Test Freq. (MHz)	5310
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3666.66	40.40	54.00	-13.60	39.72	0.68	Average	---	---
2	3666.66	47.39	74.00	-26.61	46.71	0.68	Peak	---	---
3	4455.00	53.55	68.30	-14.75	50.48	3.07	Peak	---	---
4	5000.00	42.80	54.00	-11.20	38.19	4.61	Average	---	---
5	5000.00	51.67	74.00	-22.33	47.06	4.61	Peak	---	---
6	5460.00	42.23	54.00	-11.77	37.05	5.18	Average	---	---
7	5460.00	50.40	74.00	-23.60	45.22	5.18	Peak	---	---
8	5470.00	48.93	68.30	-19.37	43.74	5.19	Peak	---	---
9	11000.00	52.91	54.00	-1.09	37.63	15.28	Average	---	---
10	11000.00	70.96	74.00	-3.04	55.68	15.28	Peak	---	---

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

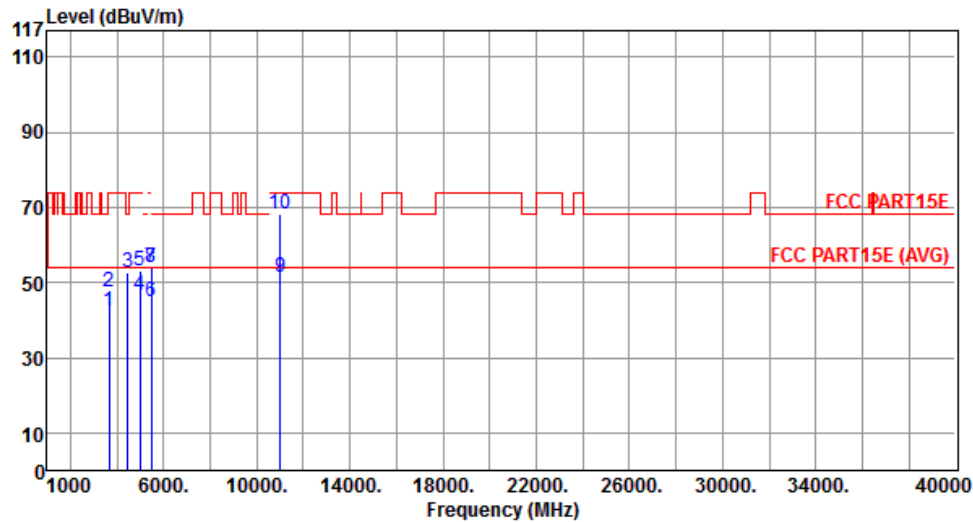
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5310
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3666.66	42.26	54.00	-11.74	41.58	0.68	Average	---	---
2	3666.66	47.65	74.00	-26.35	46.97	0.68	Peak	---	---
3	4455.00	52.78	68.30	-15.52	49.71	3.07	Peak	---	---
4	5000.00	46.66	54.00	-7.34	42.05	4.61	Average	---	---
5	5000.00	52.90	74.00	-21.10	48.29	4.61	Peak	---	---
6	5460.00	45.02	54.00	-8.98	39.84	5.18	Average	---	---
7	5460.00	54.04	74.00	-19.96	48.86	5.18	Peak	---	---
8	5470.00	53.92	68.30	-14.38	48.73	5.19	Peak	---	---
9	11000.00	51.25	54.00	-2.75	35.97	15.28	Average	---	---
10	11000.00	68.00	74.00	-6.00	52.72	15.28	Peak	---	---

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

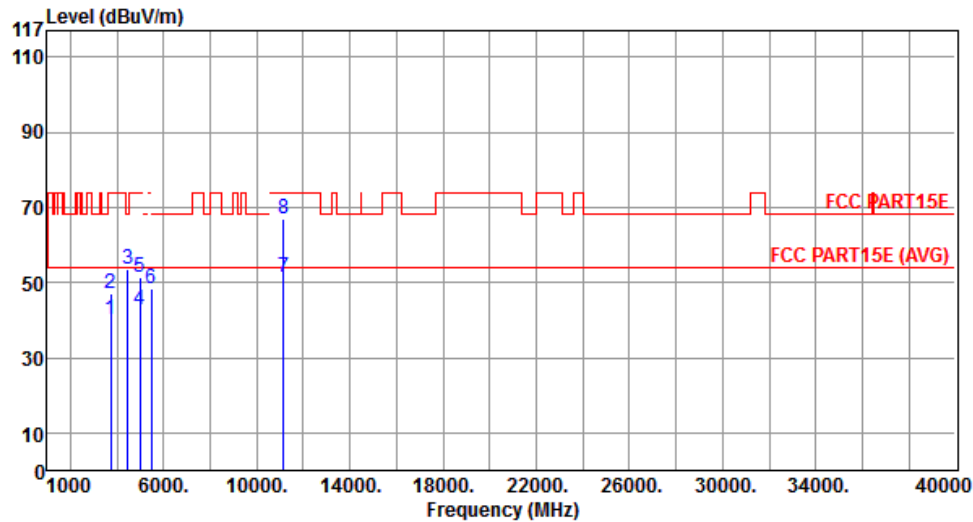
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3720.00	39.98	54.00	-14.02	39.14	0.84	Average	---	---
2	3720.00	47.13	74.00	-26.87	46.29	0.84	Peak	---	---
3	4455.00	53.38	68.30	-14.92	50.31	3.07	Peak	---	---
4	5000.00	42.95	54.00	-11.05	38.34	4.61	Average	---	---
5	5000.00	51.46	74.00	-22.54	46.85	4.61	Peak	---	---
6	5470.00	48.23	68.30	-20.07	43.04	5.19	Peak	---	---
7	11160.00	51.46	54.00	-2.54	36.28	15.18	Average	---	---
8	11160.00	66.94	74.00	-7.06	51.76	15.18	Peak	---	---

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

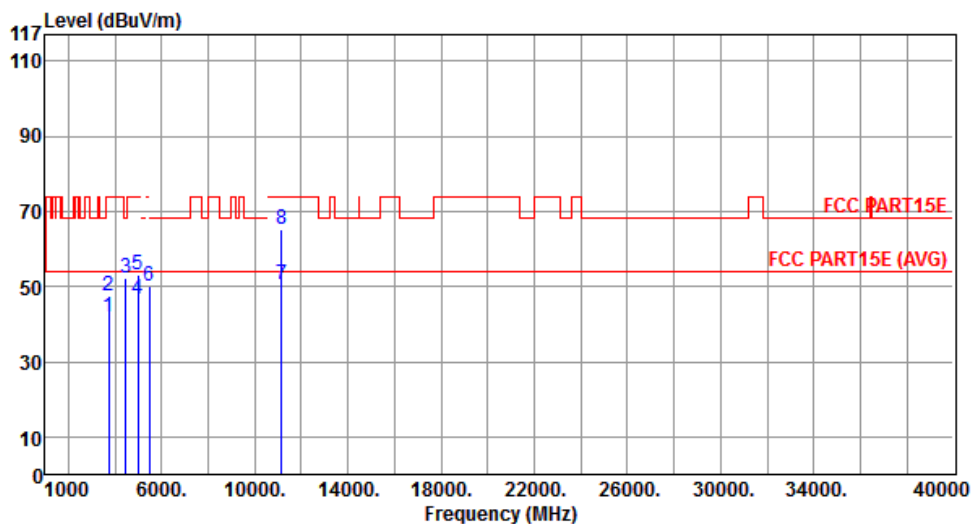
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3720.00	41.98	54.00	-12.02	41.14	0.84	Average	---	---
2	3720.00	47.70	74.00	-26.30	46.86	0.84	Peak	---	---
3	4455.00	52.35	68.30	-15.95	49.28	3.07	Peak	---	---
4	5000.00	46.57	54.00	-7.43	41.96	4.61	Average	---	---
5	5000.00	53.08	74.00	-20.92	48.47	4.61	Peak	---	---
6	5470.00	49.92	68.30	-18.38	44.73	5.19	Peak	---	---
7	11160.00	50.46	54.00	-3.54	35.28	15.18	Average	---	---
8	11160.00	65.15	74.00	-8.85	49.97	15.18	Peak	---	---

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

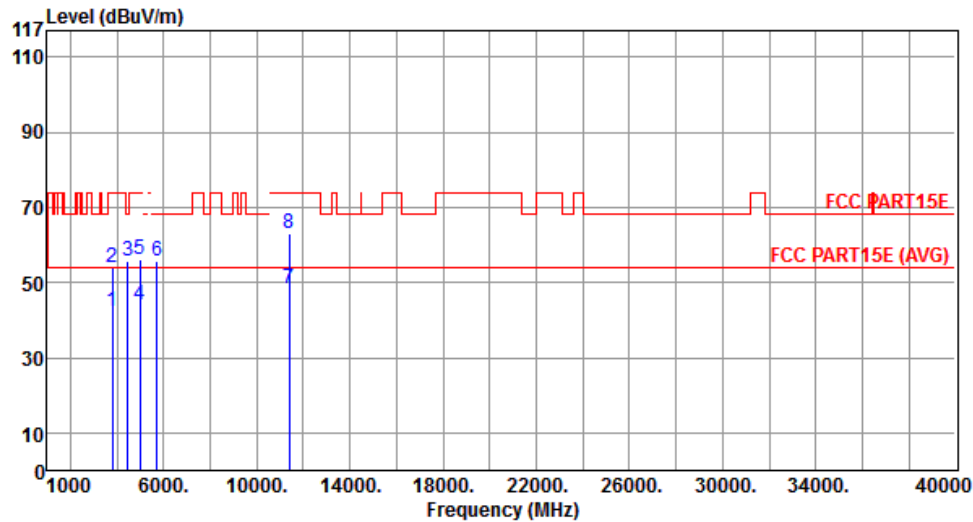
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3800.00	42.49	54.00	-11.51	41.39	1.10	Average	---	---
2	3800.00	53.88	74.00	-20.12	52.78	1.10	Peak	---	---
3	4455.00	55.48	68.30	-12.82	52.41	3.07	Peak	---	---
4	5000.00	44.04	54.00	-9.96	39.43	4.61	Average	---	---
5	5000.00	55.97	74.00	-18.03	51.36	4.61	Peak	---	---
6	5725.00	55.48	68.30	-12.82	49.92	5.56	Peak	---	---
7	11400.00	48.29	54.00	-5.71	33.26	15.03	Average	---	---
8	11400.00	63.24	74.00	-10.76	48.21	15.03	Peak	---	---

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

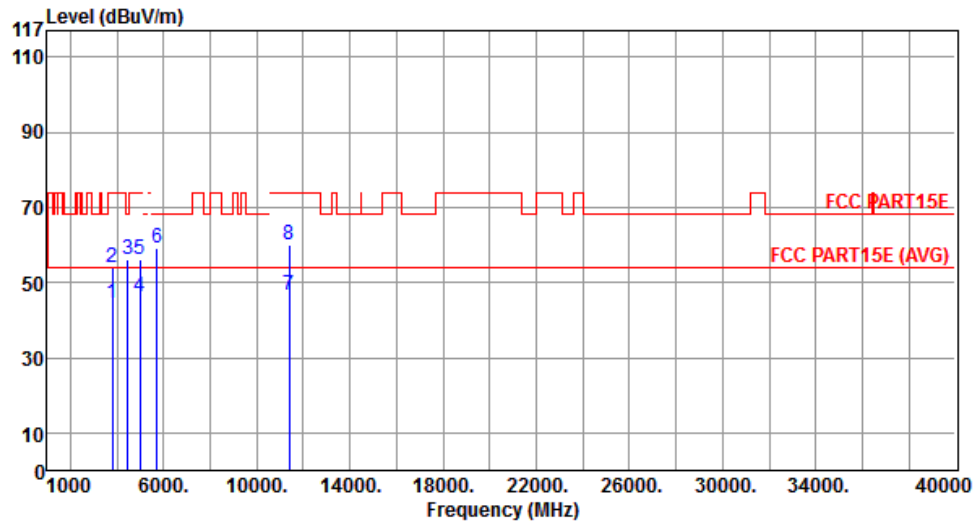
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11a	Test Freq. (MHz)	5580
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3800.00	44.31	54.00	-9.69	43.21	1.10	Average	---	---
2	3800.00	53.97	74.00	-20.03	52.87	1.10	Peak	---	---
3	4455.00	56.28	68.30	-12.02	53.21	3.07	Peak	---	---
4	5000.00	46.30	54.00	-7.70	41.69	4.61	Average	---	---
5	5000.00	55.96	74.00	-18.04	51.35	4.61	Peak	---	---
6	5725.00	59.09	68.30	-9.21	53.53	5.56	Peak	---	---
7	11400.00	46.59	54.00	-7.41	31.56	15.03	Average	---	---
8	11400.00	60.16	74.00	-13.84	45.13	15.03	Peak	---	---

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

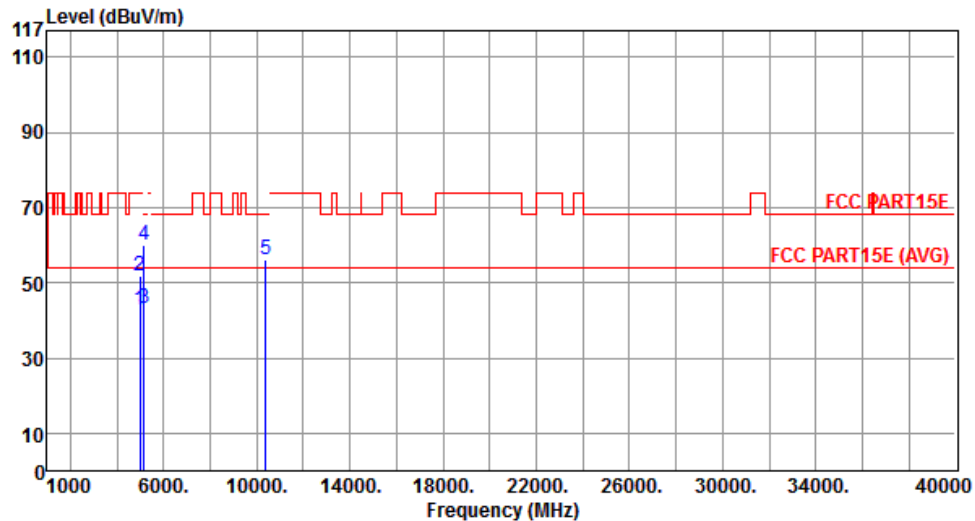
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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
N_{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	42.57	54.00	-11.43	37.96	4.61	Average	---	---
2	5000.00	51.80	74.00	-22.20	47.19	4.61	Peak	---	---
3	5150.00	42.96	54.00	-11.04	38.02	4.94	Average	---	---
4	5150.00	59.94	74.00	-14.06	55.00	4.94	Peak	---	---
5	10380.00	55.97	68.30	-12.33	41.24	14.73	Peak	---	---

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

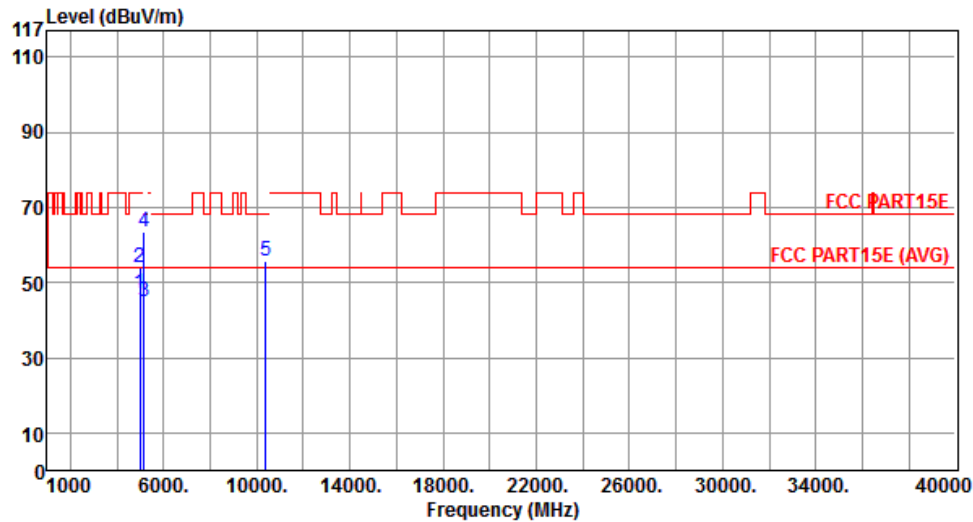
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	46.99	54.00	-7.01	42.38	4.61	Average	---	---
2	5000.00	53.85	74.00	-20.15	49.24	4.61	Peak	---	---
3	5150.00	44.76	54.00	-9.24	39.82	4.94	Average	---	---
4	5150.00	63.59	74.00	-10.41	58.65	4.94	Peak	---	---
5	10380.00	55.68	68.30	-12.62	40.95	14.73	Peak	---	---

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

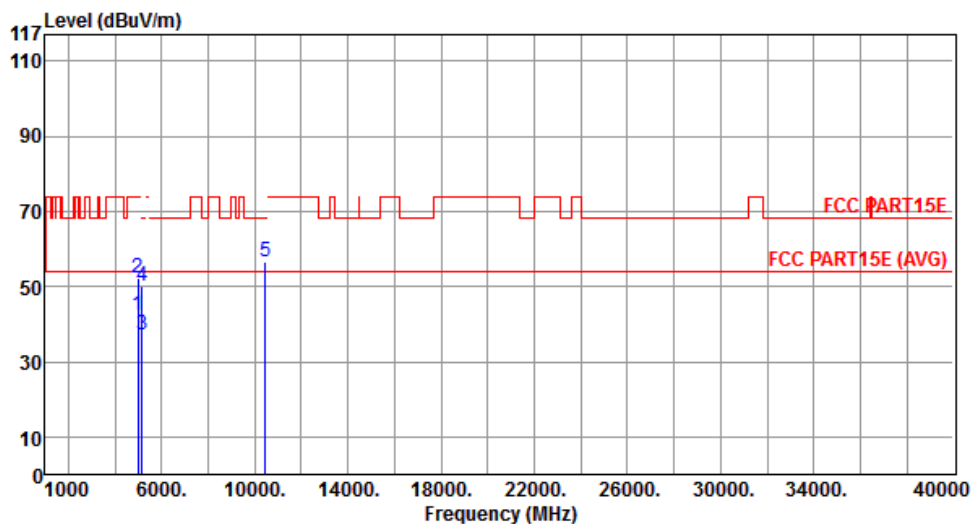
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	42.19	54.00	-11.81	37.58	4.61	Average	---	---
2	5000.00	52.22	74.00	-21.78	47.61	4.61	Peak	---	---
3	5150.00	37.17	54.00	-16.83	32.23	4.94	Average	---	---
4	5150.00	50.17	74.00	-23.83	45.23	4.94	Peak	---	---
5	10460.00	56.47	68.30	-11.83	41.65	14.82	Peak	---	---

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

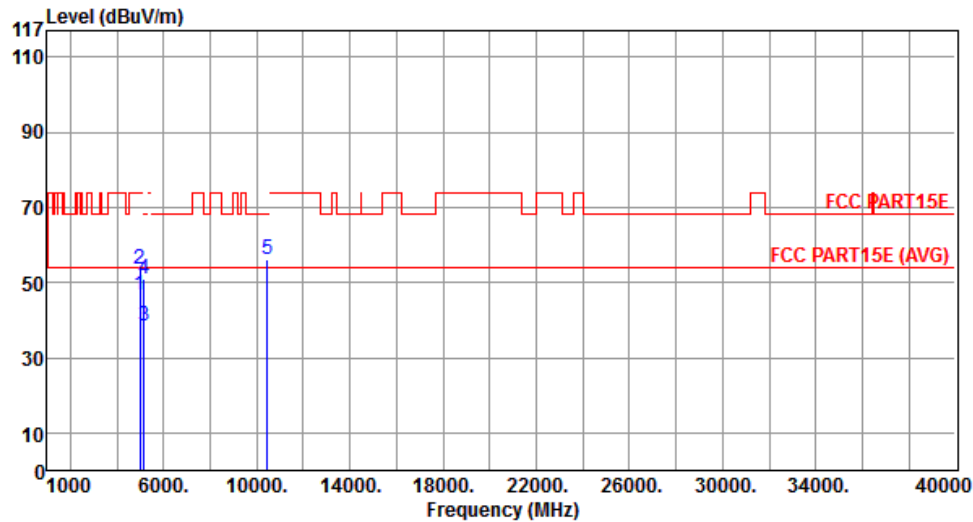
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	5500
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	46.61	54.00	-7.39	42.00	4.61	Average	---	---
2	5000.00	53.68	74.00	-20.32	49.07	4.61	Peak	---	---
3	5150.00	38.44	54.00	-15.56	33.50	4.94	Average	---	---
4	5150.00	50.79	74.00	-23.21	45.85	4.94	Peak	---	---
5	10460.00	56.00	68.30	-12.30	41.18	14.82	Peak	---	---

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

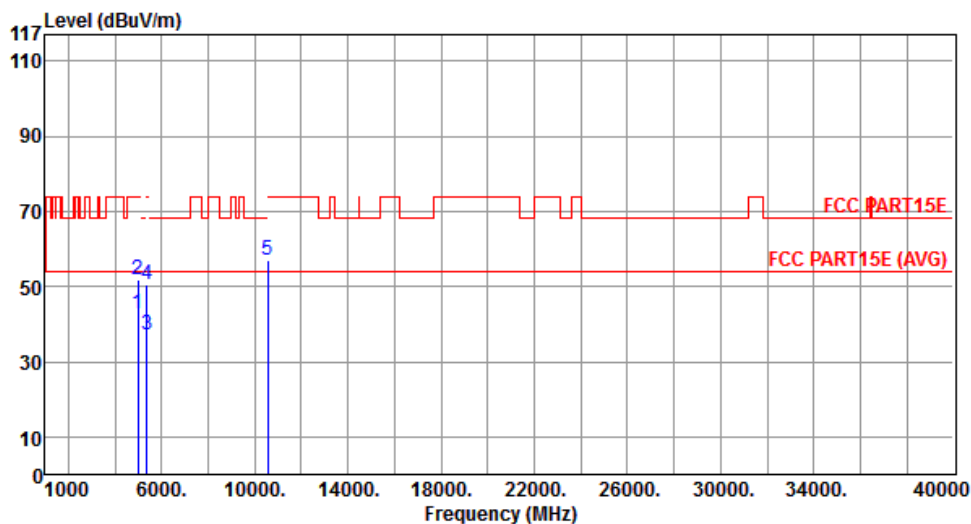
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	42.86	54.00	-11.14	38.25	4.61	Average	---	---
2	5000.00	52.02	74.00	-21.98	47.41	4.61	Peak	---	---
3	5350.00	37.08	54.00	-16.92	31.99	5.09	Average	---	---
4	5350.00	50.51	74.00	-23.49	45.42	5.09	Peak	---	---
5	10540.00	56.94	68.30	-11.36	42.04	14.90	Peak	---	---

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

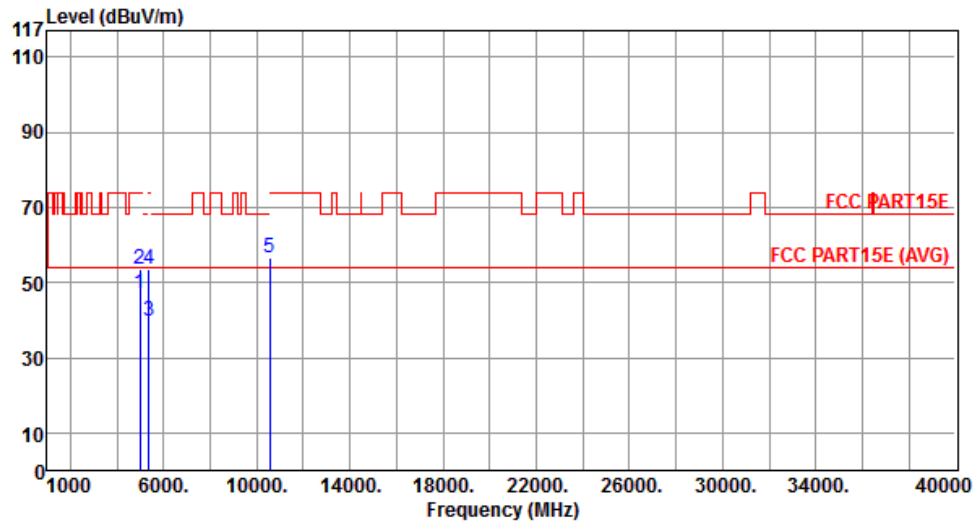
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	47.24	54.00	-6.76	42.63	4.61	Average	---	---
2	5000.00	53.34	74.00	-20.66	48.73	4.61	Peak	---	---
3	5350.00	39.74	54.00	-14.26	34.65	5.09	Average	---	---
4	5350.00	53.62	74.00	-20.38	48.53	5.09	Peak	---	---
5	10540.00	56.52	68.30	-11.78	41.62	14.90	Peak	---	---

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

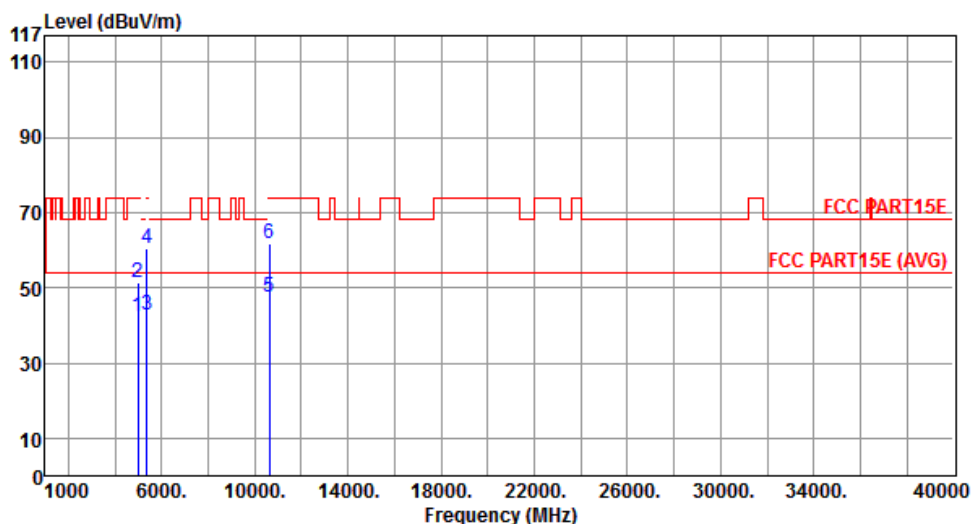
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	42.41	54.00	-11.59	37.80	4.61	Average	---	---
2	5000.00	51.46	74.00	-22.54	46.85	4.61	Peak	---	---
3	5350.00	42.78	54.00	-11.22	37.69	5.09	Average	---	---
4	5350.00	60.49	74.00	-13.51	55.40	5.09	Peak	---	---
5	10620.00	47.54	54.00	-6.46	32.58	14.96	Average	---	---
6	10620.00	61.80	74.00	-12.20	46.84	14.96	Peak	---	---

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

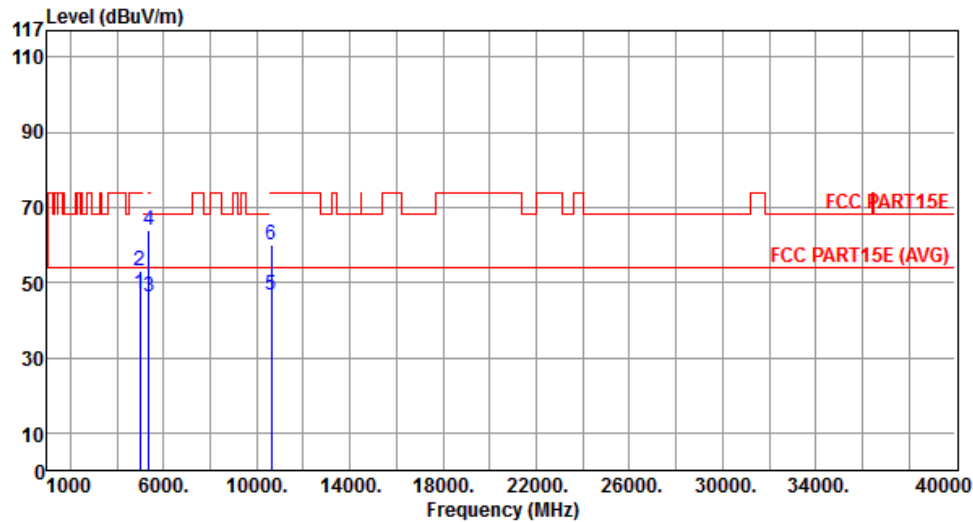
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5000.00	46.94	54.00	-7.06	42.33	4.61	Average	---	---
2	5000.00	53.28	74.00	-20.72	48.67	4.61	Peak	---	---
3	5350.00	46.12	54.00	-7.88	41.03	5.09	Average	---	---
4	5350.00	63.72	74.00	-10.28	58.63	5.09	Peak	---	---
5	10620.00	46.48	54.00	-7.52	31.52	14.96	Average	---	---
6	10620.00	59.80	74.00	-14.20	44.84	14.96	Peak	---	---

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

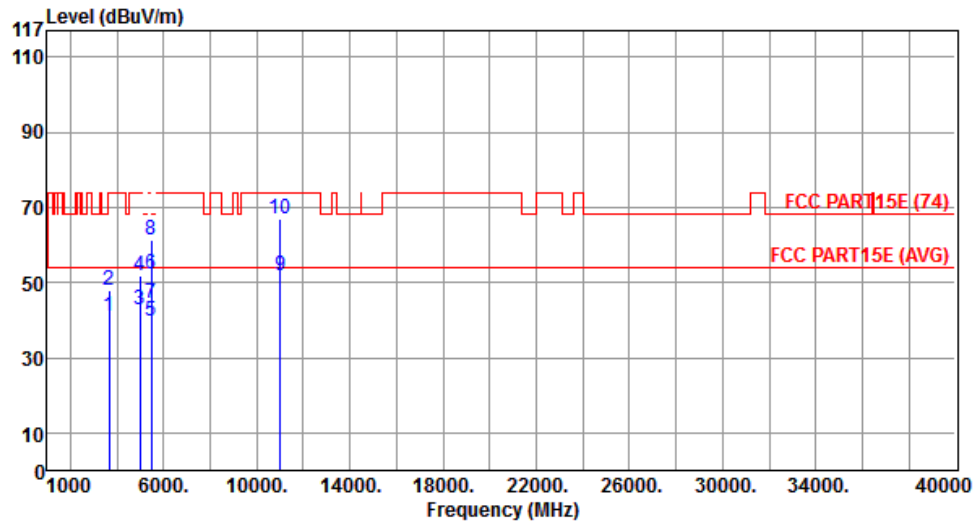
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3673.33	40.83	54.00	-13.17	40.13	0.70	Average	---	---
2	3673.33	48.00	74.00	-26.00	47.30	0.70	Peak	---	---
3	5000.00	42.74	54.00	-11.26	38.13	4.61	Average	---	---
4	5000.00	51.60	74.00	-22.40	46.99	4.61	Peak	---	---
5	5460.00	39.86	54.00	-14.14	34.68	5.18	Average	---	---
6	5460.00	52.03	74.00	-21.97	46.85	5.18	Peak	---	---
7	5470.00	44.67	54.00	-9.33	39.48	5.19	Average	---	---
8	5470.00	61.09	74.00	-12.91	55.90	5.19	Peak	---	---
9	11020.00	51.66	54.00	-2.34	36.39	15.27	Average	---	---
10	11020.00	66.71	74.00	-7.29	51.44	15.27	Peak	---	---

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

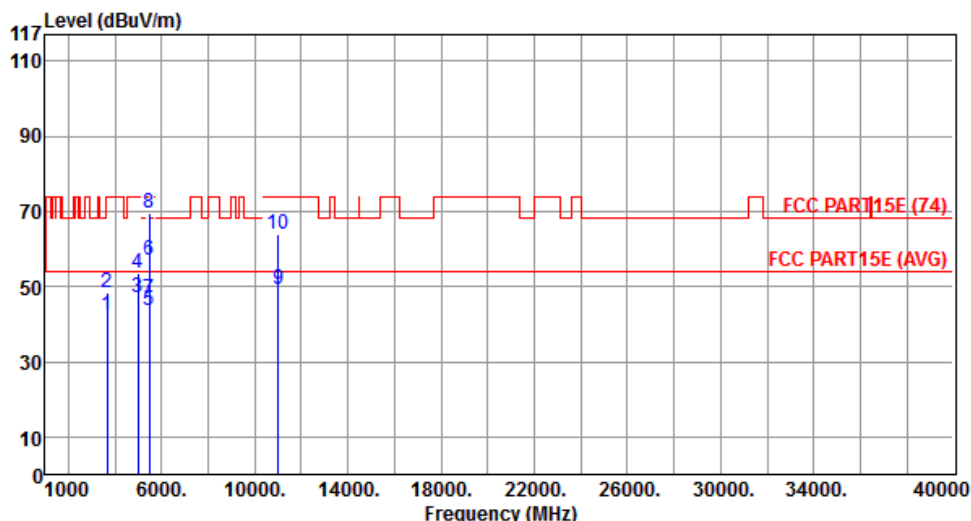
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5510
N_{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3673.33	42.10	54.00	-11.90	41.40	0.70	Average	---	---
2	3673.33	48.21	74.00	-25.79	47.51	0.70	Peak	---	---
3	5000.00	47.26	54.00	-6.74	42.65	4.61	Average	---	---
4	5000.00	53.39	74.00	-20.61	48.78	4.61	Peak	---	---
5	5460.00	43.41	54.00	-10.59	38.23	5.18	Average	---	---
6	5460.00	56.96	74.00	-17.04	51.78	5.18	Peak	---	---
7	5470.00	46.52	54.00	-7.48	41.33	5.19	Average	---	---
8	5470.00	69.33	74.00	-4.67	64.14	5.19	Peak	---	---
9	11020.00	49.33	54.00	-4.67	34.06	15.27	Average	---	---
10	11020.00	63.97	74.00	-10.03	48.70	15.27	Peak	---	---

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

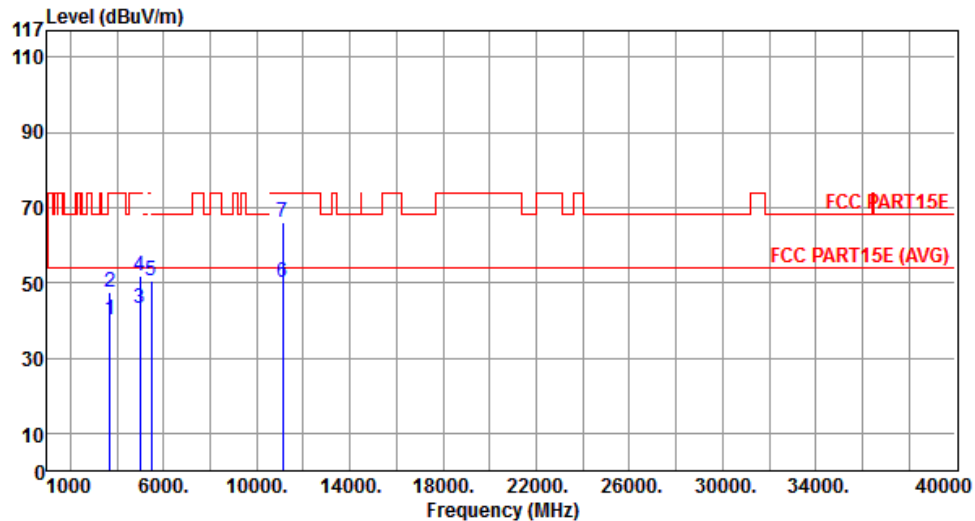
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5550
N _{TX}	2	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3700.00	40.20	54.00	-13.80	39.42	0.78	Average	---	---
2	3700.00	47.61	74.00	-26.39	46.83	0.78	Peak	---	---
3	5000.00	43.34	54.00	-10.66	38.73	4.61	Average	---	---
4	5000.00	51.90	74.00	-22.10	47.29	4.61	Peak	---	---
5	5470.00	50.36	68.30	-17.94	45.17	5.19	Peak	---	---
6	11100.00	50.07	54.00	-3.93	34.85	15.22	Average	---	---
7	11100.00	66.04	74.00	-7.96	50.82	15.22	Peak	---	---

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

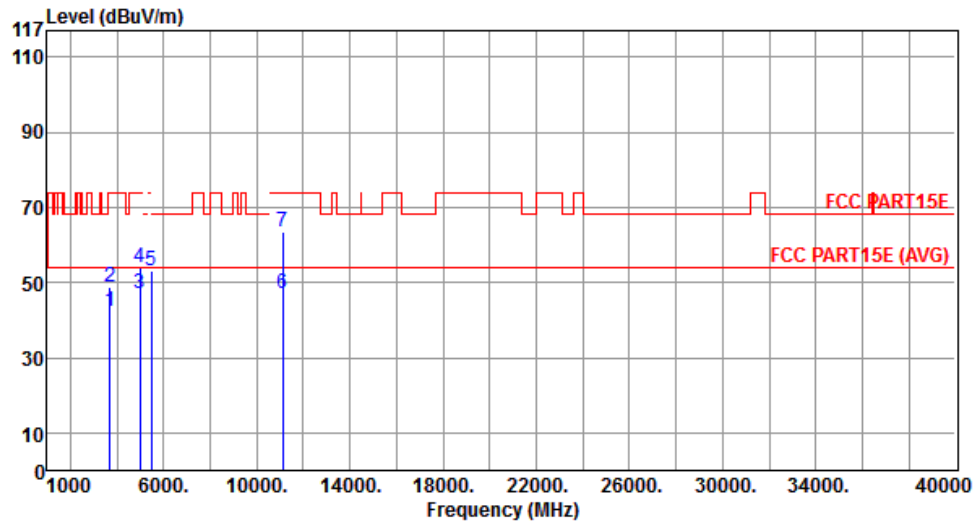
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3700.00	42.15	54.00	-11.85	41.37	0.78	Average	---	---
2	3700.00	48.73	74.00	-25.27	47.95	0.78	Peak	---	---
3	5000.00	47.19	54.00	-6.81	42.58	4.61	Average	---	---
4	5000.00	53.78	74.00	-20.22	49.17	4.61	Peak	---	---
5	5470.00	53.19	68.30	-15.11	48.00	5.19	Peak	---	---
6	11100.00	47.21	54.00	-6.79	31.99	15.22	Average	---	---
7	11100.00	63.42	74.00	-10.58	48.20	15.22	Peak	---	---

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

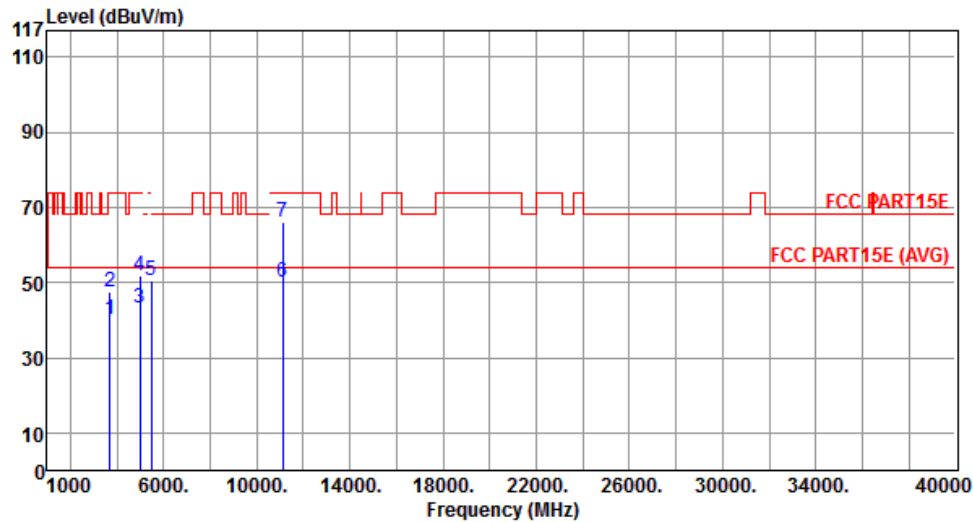
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3700.00	40.20	54.00	-13.80	39.42	0.78	Average	---	---
2	3700.00	47.61	74.00	-26.39	46.83	0.78	Peak	---	---
3	5000.00	43.34	54.00	-10.66	38.73	4.61	Average	---	---
4	5000.00	51.90	74.00	-22.10	47.29	4.61	Peak	---	---
5	5470.00	50.36	68.30	-17.94	45.17	5.19	Peak	---	---
6	11100.00	50.07	54.00	-3.93	34.85	15.22	Average	---	---
7	11100.00	66.04	74.00	-7.96	50.82	15.22	Peak	---	---

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

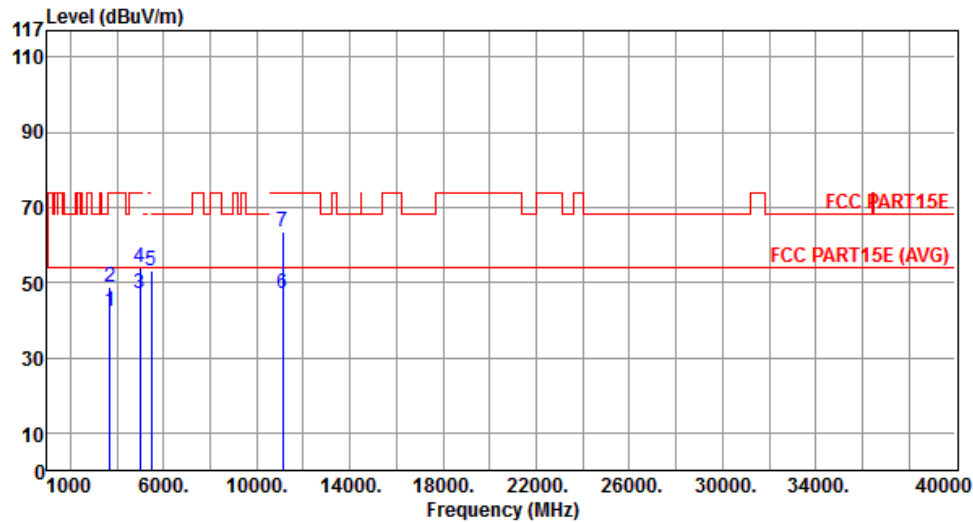
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	5670
N _{TX}	2	Polarization	V



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3700.00	42.15	54.00	-11.85	41.37	0.78	Average	---	---
2	3700.00	48.73	74.00	-25.27	47.95	0.78	Peak	---	---
3	5000.00	47.19	54.00	-6.81	42.58	4.61	Average	---	---
4	5000.00	53.78	74.00	-20.22	49.17	4.61	Peak	---	---
5	5470.00	53.19	68.30	-15.11	48.00	5.19	Peak	---	---
6	11100.00	47.21	54.00	-6.79	31.99	15.22	Average	---	---
7	11100.00	63.42	74.00	-10.58	48.20	15.22	Peak	---	---

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

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

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

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

3.7 Frequency Stability

3.7.1 Frequency Stability Limit

Frequency Stability Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	N/A
IEEE Std. 802.11n-2009	
<input checked="" type="checkbox"/>	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.

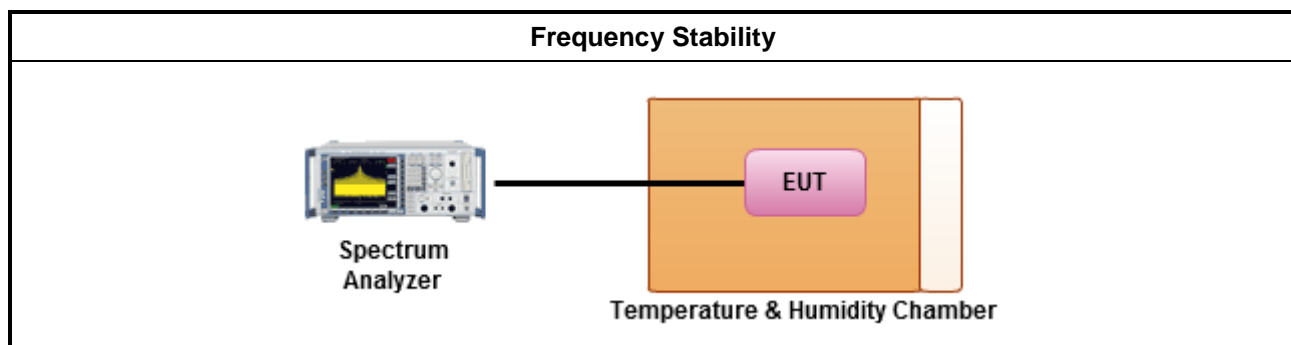
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

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

3.7.4 Test Setup



3.7.5 Test Result of Frequency Stability

Frequency Stability Result			
Mode		Frequency Stability (ppm)	
Condition	Freq. (MHz)	Test Frequency (MHz)	Frequency Stability (ppm)
T _{20°C} Vmax	5320	5319.99628	-0.6992
T _{20°C} Vmin	5320	5320.02761	5.1898
T _{70°C} Vnom	5320	5320.02328	4.3759
T _{60°C} Vnom	5320	5320.02202	4.1391
T _{50°C} Vnom	5320	5320.03078	5.7857
T _{40°C} Vnom	5320	5319.98582	-2.6654
T _{30°C} Vnom	5320	5320.00636	1.1955
T _{20°C} Vnom	5320	5320.00621	1.1673
T _{10°C} Vnom	5320	5320.00280	0.5263
T _{0°C} Vnom	5320	5320.00254	0.4774
T _{-10°C} Vnom	5320	5319.99727	-0.5132
T _{-20°C} Vnom	5320	5319.99816	-0.3459
T _{-30°C} Vnom	5320	5320.00480	0.9023
Limit (ppm)		20	
Result		Complied	
Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom].			
Note 2: The nominal voltage refer test report clause 1.1.5 for EUT operational condition.			

4 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	R&S	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interval of instruments listed above is two year.					



Test Item	RF Conducted				
Test Site	TH01-HY				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
Spectrum Analyzer	R&S	FSP 40	100305	Mar. 20, 2013	Mar. 19, 2014
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	Nov. 21, 2012	Nov. 20, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 14, 2014
Power Sensor	Anritsu	MA2411B	0917017	Feb. 02, 2013	Feb. 01, 2014
Power Meter	Anritsu	ML2495A	0949003	Feb. 02, 2013	Feb. 01, 2014
Note: Calibration Interval of instruments listed above is one year.					