



International Certification Corp.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

Tel: 886-3-271-8666

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FCC Test Report

FCC ID : PY312400222
Equipment : ProSAFE® Single Band 802.11n Wireless Access point
Model No. : WN203
Brand Name : NETGEAR
Applicant : NETGEAR, Inc.
Address : 350 East Plumeria Drive, San Jose, California 95134, USA
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 25, 2013
Tested Date : Apr. 25 ~ May 07, 2013

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager





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Release Record

Report No.	Version	Description	Issued Date
FR341901	Rev. 01	Initial issue	May 15, 2013



Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.360MHz 49.04 (Margin -9.70dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 73.98 (Margin -0.02dB) - Peak	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11b: 24.32 11g: 23.72 HT20: 22.90 HT40: 15.74	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass



1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector	Remark
1	PCB	2.4	---	---
2	PCB	3	---	---
3	Dipole	3	R-SMA	Optional, this antenna will not be sold with this device.

1.1.3 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input type="checkbox"/> DC	
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input type="checkbox"/> External DC adapter	<input type="checkbox"/> Battery



1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter 1	Brand Name: NETGEAR Model Name: SAL012F1 NA P/N: 332-10366-01 Power Rating: I/P: 100-120Vac, 47-63Hz, 0.6A O/P: 12Vdc, 1A Power Line: 1.8m non-shielded cable w/o core
2	AC Adapter 2	Brand Name: NETGEAR Model Name: AD810F10 P/N: 332-10329-02 Power Rating: I/P: 100-120Vac, 50-60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.85m non-shielded cable w/o core
3	RJ45 cable	1.5m non-shielded w/o core.

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---



1.1.6 Test Tool and Duty Cycle

Test tool	art2_ver_2_28_6
Duty Cycle Of Test Signal (%)	99.82% - IEEE 802.11b 98.46% - IEEE 802.11g 98.35% - IEEE 802.11n (HT20) 94.83% - IEEE 802.11n (HT40)
Duty Factor	0.01 - IEEE 802.11b 0.07 - IEEE 802.11g 0.07 - IEEE 802.11n (HT20) 0.23 - IEEE 802.11n (HT40)

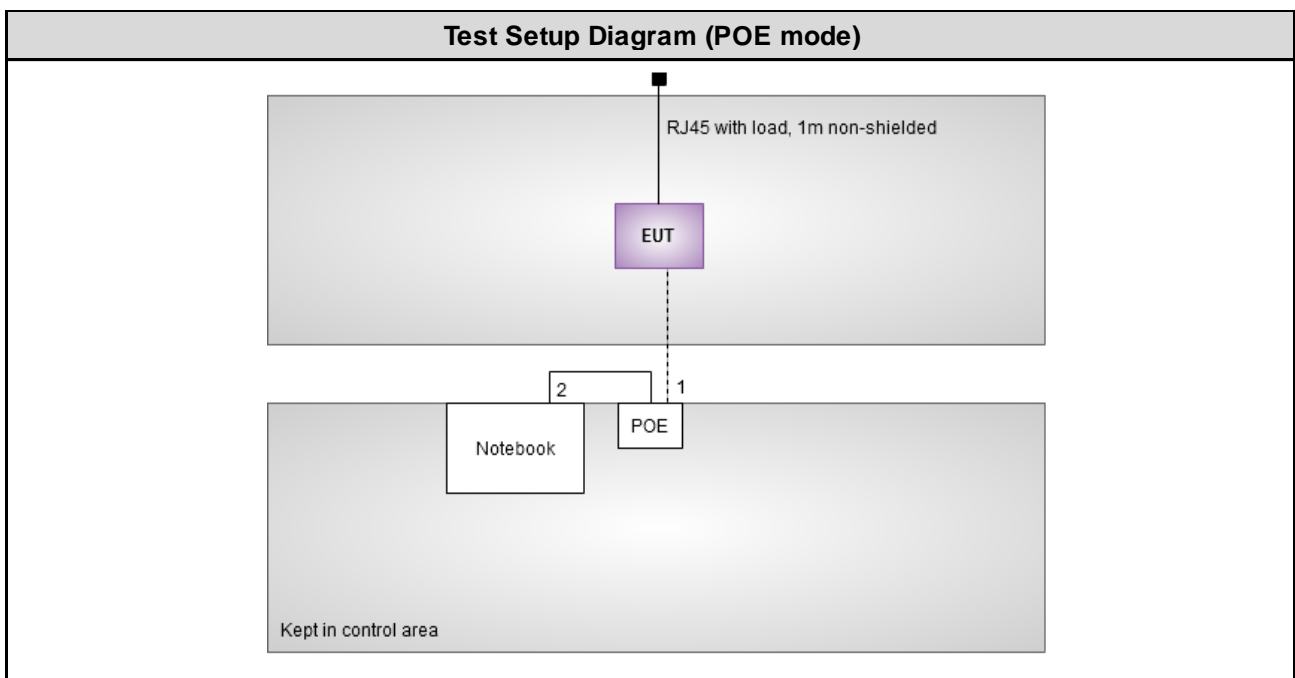
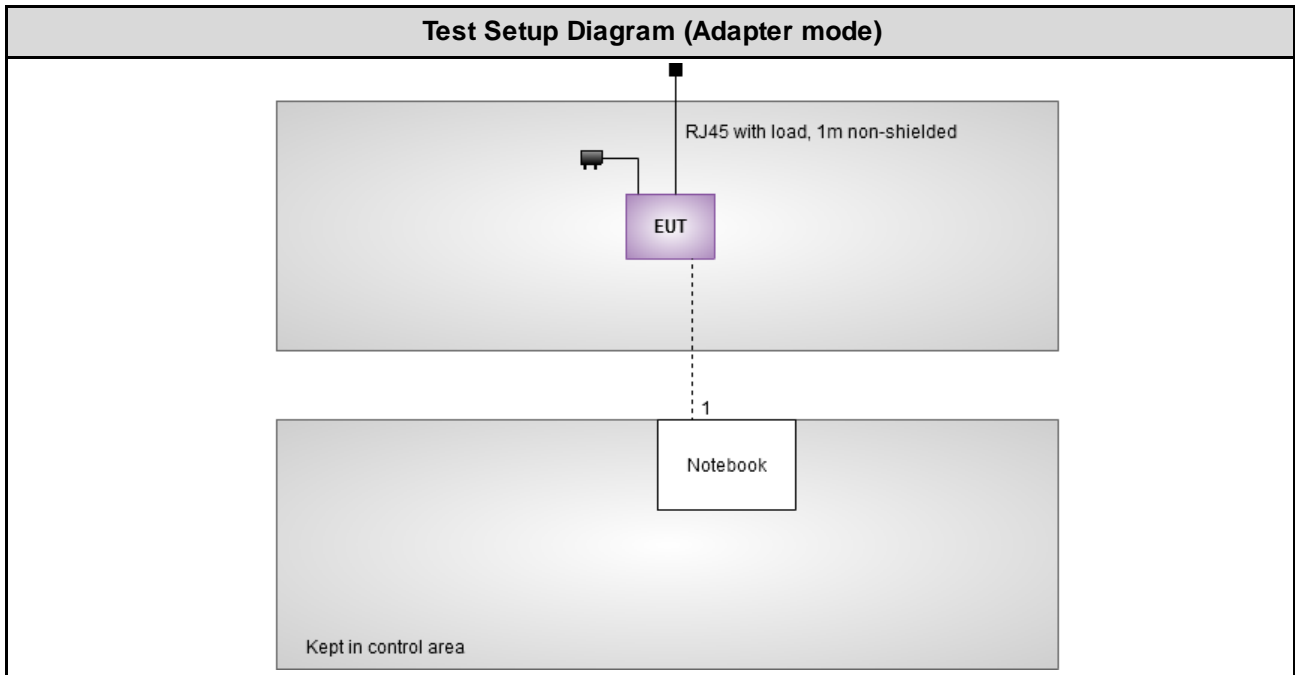
1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E5420	B6FDBT1	DoC	1. RJ45 1.5m non-shielded w/o core. 2. RJ45, 10m non-shielded w/o core.
2	PoE	PowerDsine	PD-3001G C/AC	---	---	---

Note: Item 2 was provided by client.



1.3 Test Setup Chart





1.4 The Equipment List

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	Dec. 12, 2012	Dec. 11, 2013
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
ISN	TESEQ	ISN T800	23342	Feb. 17, 2013	Feb. 16, 2014
ISN	TESEQ	ISN T400	21653	Jun. 22, 2012	Jun. 21, 2013
ISN	TESEQ	ISN T8-Cat6	27262	Sep. 17, 2012	Sep. 16, 2013
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
ESH3-Z6 V-Network	R&S	ESH3-Z6	100920	Nov 21, 2012	Nov 20, 2013
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 2 / (03CH02-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Amplifier	Burgeon	BPA-530	100218	Dec. 14, 2012	Dec. 13, 2013
Amplifier	Agilent	83017A	MY39501309	Dec. 18, 2012	Dec. 17, 2013
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 29, 2013	Jan. 28, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Receiver	R&S	ESR3	101657	Jan. 30, 2013	Jan. 29, 2014
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-524	Jan. 11, 2013	Jan. 10, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	060608	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, 2013
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2012	Apr. 18, 2014
Note: Calibration Interval of instruments listed above is two year.					



Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 29, 2012	Nov. 28, 2013
DC Power Source	G.W.	GPC-6030D	C671845	Jun. 19, 2012	Jun. 18, 2013
AC Power Source	GW	APS-9102	EL920581	Jul. 02, 2012	Jul. 01, 2013
Power Meter	Anritsu	ML2495A	1241002	Oct. 15, 2012	Oct. 14, 2013
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2012	Oct. 23, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 13, 2014
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	MY16016/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	MY16013/4	Dec. 25, 2012	Dec. 24, 2013
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03

FCC KDB 662911 D01 Multiple Transmitter Output v01r02

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±35.286 Hz
Conducted power	±0.536 dB
Frequency error	±35.286 Hz
Temperature	±0.3 °C
Conducted emission	±2.946 dB
AC conducted emission	±2.43 dB
Radiated emission	±2.49 dB



2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	23°C / 55%	Skys Huang
Radiated Emissions	03CH02-WS	23°C / 62%	Anderson Hong
RF Conducted	TH01-WS	24°C / 63%	Bard Wu

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

The Worst Test Modes and Channel Details	
Test Item(s)	Conducted Emissions
Modulation, Data rate	11b/1Mbps
Test channel (MHz)	2437
Test Condition	Continoustransmitting
Test Mode	Operating Mode Description
A1	Adapter 1 + Internal antenna (ANT 1 + ANT 2)
B1	POE + Internal antenna (ANT 1 + ANT 2)
A2	Adapter 1 + External antenna (ANT 3)
B2	POE + External antenna (ANT 3)
Adapter 1 and Adapter 2 had been pretested and found that Adapter 1 was the worst case for final test and only its data was record in this report.	

The Worst Test Modes and Channel Details	
Test Item(s)	Fundamental Emission Output Power 6dB bandwidth Power spectral density
Modulation, Data rate	11b/1Mbps, 11g/6Mbps
Test channel (MHz)	2412, 2437, 2462
Test Condition	Continoustransmitting
Modulation, Data rate	HT20/MCS 8, HT40/MCS 8
Test channel (MHz)	HT20: 2412, 2437, 2462 HT40: 2422, 2437, 2452
Test Condition	Continoustransmitting



The Worst Test Modes and Channel Details	
Test Item(s)	Radiated emission (below 1GHz)
Modulation, Data rate	11b/1Mbps
Test channel (MHz)	2437
Test Condition	Continoustransmitting
Test Mode	Operating Mode Description
A1	Adapter 1 + Internal antenna (ANT 1 + ANT 2)
B1	POE + Internal antenna (ANT 1 + ANT 2)
A2	Adapter 1 + External antenna (ANT 3)
B2	POE + External antenna (ANT 3)
Test Item(s)	Radiated emission (above 1GHz)
Modulation, Data rate	11b/1Mbps, 11g/6Mbps
Test channel (MHz)	11b, 11g: 2412, 2437, 2462
Test Condition	Continoustransmitting
Test Mode	Operating Mode Description
A1	Adapter 1 + Internal antenna (ANT 1 + ANT 2)
A2	Adapter 1 + External antenna (ANT 3)
Modulation, Data rate	HT20/MCS 8, HT40/MCS 8
Test channel (MHz)	HT20: 2412, 2437, 2462 HT40: 2422, 2437, 2452
Test Condition	Continoustransmitting
Test Mode	Operating Mode Description
A1	Adapter 1 + Internal antenna (ANT 1 + ANT 2)
A2	Adapter 1 + External antenna (ANT 3)



3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

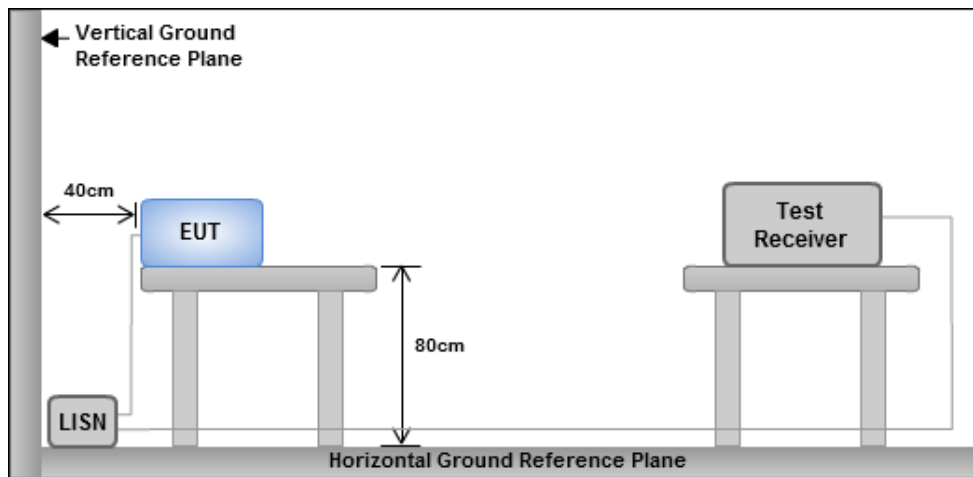
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.

3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

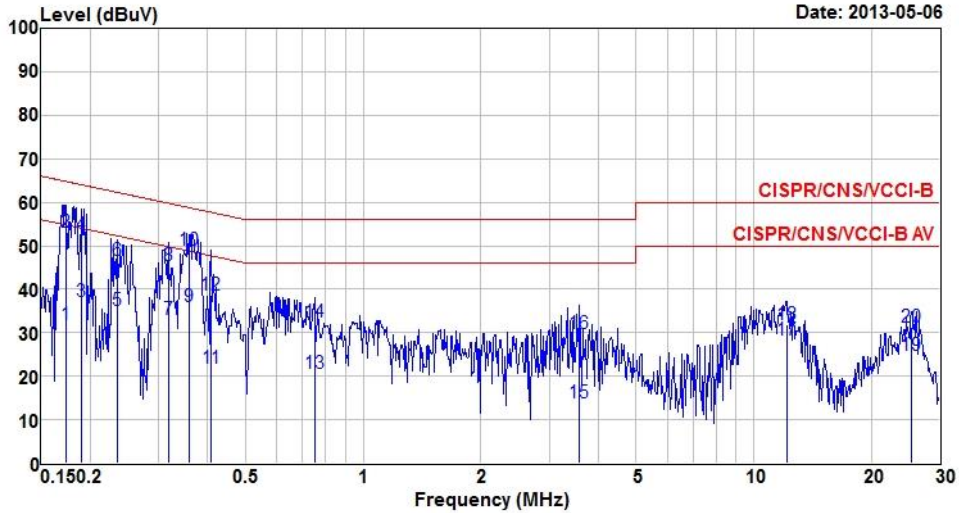


3.1.4 Test Result of Conducted Emissions

Power Phase	Line	Test Freq. (MHz)	2437																																																																																																																																					
Test Mode	A1																																																																																																																																							
Date: 2013-05-06																																																																																																																																								
<p>The graph displays the conducted emission level in dBuV on the y-axis (0 to 100) against frequency in MHz on the x-axis (0.150.2 to 30). Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). A blue line represents the measured emission level, which fluctuates significantly at low frequencies and then levels off between 20 and 40 dBuV from 1 MHz to 30 MHz.</p>																																																																																																																																								
	<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>LISN</th> <th>cable</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>factor</th> <th>loss</th> <th></th> </tr> <tr> <th></th> <th></th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.183</td><td>40.50</td><td>54.33</td><td>-13.83</td><td>40.31</td><td>0.05</td><td>0.14</td><td>Average</td></tr> <tr><td>2</td><td>0.183</td><td>52.68</td><td>64.33</td><td>-11.65</td><td>52.49</td><td>0.05</td><td>0.14</td><td>QP</td></tr> <tr><td>3</td><td>0.239</td><td>30.41</td><td>52.13</td><td>-21.72</td><td>30.21</td><td>0.05</td><td>0.15</td><td>Average</td></tr> <tr><td>4</td><td>0.239</td><td>44.01</td><td>62.13</td><td>-18.12</td><td>43.81</td><td>0.05</td><td>0.15</td><td>QP</td></tr> <tr><td>5</td><td>0.363</td><td>32.53</td><td>48.65</td><td>-16.12</td><td>32.40</td><td>0.06</td><td>0.07</td><td>Average</td></tr> <tr><td>6</td><td>0.363</td><td>42.93</td><td>58.65</td><td>-15.72</td><td>42.80</td><td>0.06</td><td>0.07</td><td>QP</td></tr> <tr><td>7</td><td>3.346</td><td>18.87</td><td>46.00</td><td>-27.13</td><td>18.47</td><td>0.18</td><td>0.22</td><td>Average</td></tr> <tr><td>8</td><td>3.346</td><td>31.14</td><td>56.00</td><td>-24.86</td><td>30.74</td><td>0.18</td><td>0.22</td><td>QP</td></tr> <tr><td>9</td><td>11.996</td><td>31.81</td><td>50.00</td><td>-18.19</td><td>30.95</td><td>0.74</td><td>0.12</td><td>Average</td></tr> <tr><td>10</td><td>11.996</td><td>34.54</td><td>60.00</td><td>-25.46</td><td>33.68</td><td>0.74</td><td>0.12</td><td>QP</td></tr> <tr><td>11</td><td>25.321</td><td>25.25</td><td>50.00</td><td>-24.75</td><td>23.49</td><td>1.26</td><td>0.50</td><td>Average</td></tr> <tr><td>12</td><td>25.321</td><td>31.95</td><td>60.00</td><td>-28.05</td><td>30.19</td><td>1.26</td><td>0.50</td><td>QP</td></tr> </tbody> </table>	Freq	Level	Limit	Over	Read	LISN	cable	Remark	MHz	dBuV	Line	Limit	Level	factor	loss				dBuV	dB	dBuV	dB	dB		1	0.183	40.50	54.33	-13.83	40.31	0.05	0.14	Average	2	0.183	52.68	64.33	-11.65	52.49	0.05	0.14	QP	3	0.239	30.41	52.13	-21.72	30.21	0.05	0.15	Average	4	0.239	44.01	62.13	-18.12	43.81	0.05	0.15	QP	5	0.363	32.53	48.65	-16.12	32.40	0.06	0.07	Average	6	0.363	42.93	58.65	-15.72	42.80	0.06	0.07	QP	7	3.346	18.87	46.00	-27.13	18.47	0.18	0.22	Average	8	3.346	31.14	56.00	-24.86	30.74	0.18	0.22	QP	9	11.996	31.81	50.00	-18.19	30.95	0.74	0.12	Average	10	11.996	34.54	60.00	-25.46	33.68	0.74	0.12	QP	11	25.321	25.25	50.00	-24.75	23.49	1.26	0.50	Average	12	25.321	31.95	60.00	-28.05	30.19	1.26	0.50	QP			
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<p>Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).</p>																																																																																																																																								



Power Phase	Neutral	Test Freq. (MHz)	2437
Test Mode	A1		

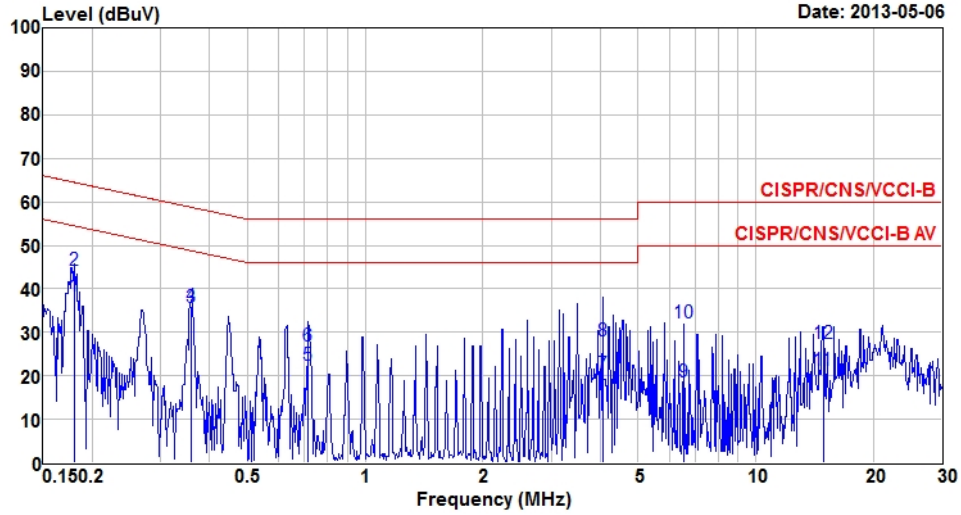


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.173	31.73	54.81	-23.08	31.57	0.04	0.12	Average
2	0.173	53.00	64.81	-11.81	52.84	0.04	0.12	QP
3	0.190	37.23	54.02	-16.79	37.03	0.04	0.16	Average
4	0.190	52.56	64.02	-11.46	52.36	0.04	0.16	QP
5	0.234	35.13	52.30	-17.17	34.94	0.04	0.15	Average
6	0.234	46.49	62.30	-15.81	46.30	0.04	0.15	QP
7	0.317	33.10	49.80	-16.70	32.96	0.05	0.09	Average
8	0.317	45.31	59.80	-14.49	45.17	0.05	0.09	QP
9	0.360	36.01	48.74	-12.73	35.88	0.06	0.07	Average
10	0.360	49.04	58.74	-9.70	48.91	0.06	0.07	QP
11	0.408	21.98	47.68	-25.70	21.86	0.07	0.05	Average
12	0.408	38.57	57.68	-19.11	38.45	0.07	0.05	QP
13	0.751	20.51	46.00	-25.49	20.36	0.11	0.04	Average
14	0.751	32.59	56.00	-23.41	32.44	0.11	0.04	QP
15	3.584	14.00	46.00	-32.00	13.62	0.15	0.23	Average
16	3.584	29.77	56.00	-26.23	29.39	0.15	0.23	QP
17	12.124	28.33	50.00	-21.67	27.49	0.72	0.12	Average
18	12.124	31.79	60.00	-28.21	30.95	0.72	0.12	QP
19	25.321	24.87	50.00	-25.13	23.10	1.27	0.50	Average
20	25.321	31.30	60.00	-28.70	29.53	1.27	0.50	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBUV) = Limit Line (dBUV) – Level (dBUV).



Power Phase	Line	Test Freq. (MHz)	2437
Test Mode	B1		

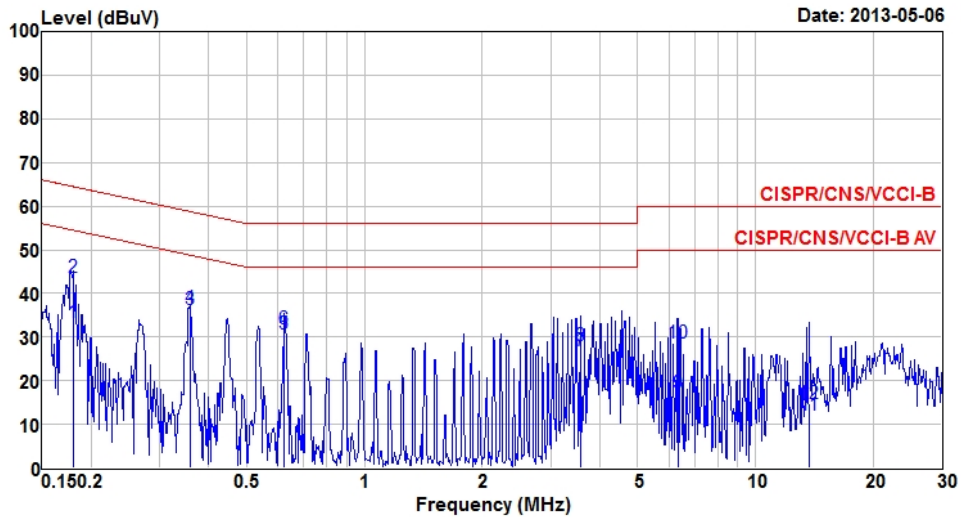


	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.180	38.42	54.50	-16.08	38.23	0.05	0.14	Average
2	0.180	44.12	64.50	-20.38	43.93	0.05	0.14	QP
3	0.358	35.64	48.78	-13.14	35.51	0.06	0.07	Average
4	0.358	36.14	58.78	-22.64	36.01	0.06	0.07	QP
5	0.716	22.56	46.00	-23.44	22.41	0.11	0.04	Average
6	0.716	26.96	56.00	-29.04	26.81	0.11	0.04	QP
7	4.049	20.43	46.00	-25.57	20.03	0.16	0.24	Average
8	4.049	27.90	56.00	-28.10	27.50	0.16	0.24	QP
9	6.557	18.72	50.00	-31.28	18.25	0.30	0.17	Average
10	6.557	32.19	60.00	-27.81	31.72	0.30	0.17	QP
11	14.907	21.17	50.00	-28.83	20.08	0.96	0.13	Average
12	14.907	27.48	60.00	-32.52	26.39	0.96	0.13	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



Power Phase	Neutral	Test Freq. (MHz)	2437
Test Mode	B1		

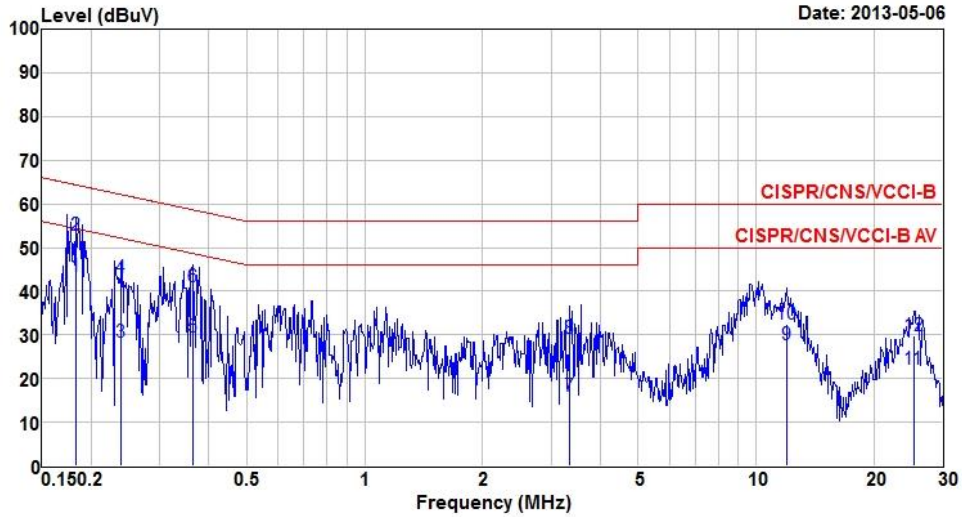


	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.180	33.48	54.50	-21.02	33.30	0.04	0.14	Average
2	0.180	43.57	64.50	-20.93	43.39	0.04	0.14	QP
3	0.358	36.37	48.78	-12.41	36.24	0.06	0.07	Average
4	0.358	36.61	58.78	-22.17	36.48	0.06	0.07	QP
5	0.624	30.69	46.00	-15.31	30.54	0.10	0.05	Average
6	0.624	31.98	56.00	-24.02	31.83	0.10	0.05	QP
7	3.565	26.99	46.00	-19.01	26.61	0.15	0.23	Average
8	3.565	27.89	56.00	-28.11	27.51	0.15	0.23	QP
9	6.352	17.26	50.00	-32.74	16.82	0.27	0.17	Average
10	6.352	28.59	60.00	-31.41	28.15	0.27	0.17	QP
11	13.768	12.16	50.00	-37.84	11.20	0.83	0.13	Average
12	13.768	14.69	60.00	-45.31	13.73	0.83	0.13	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBUV) = Limit Line (dBUV) – Level (dBUV).



Power Phase	Line	Test Freq. (MHz)	2437
Test Mode	A2		

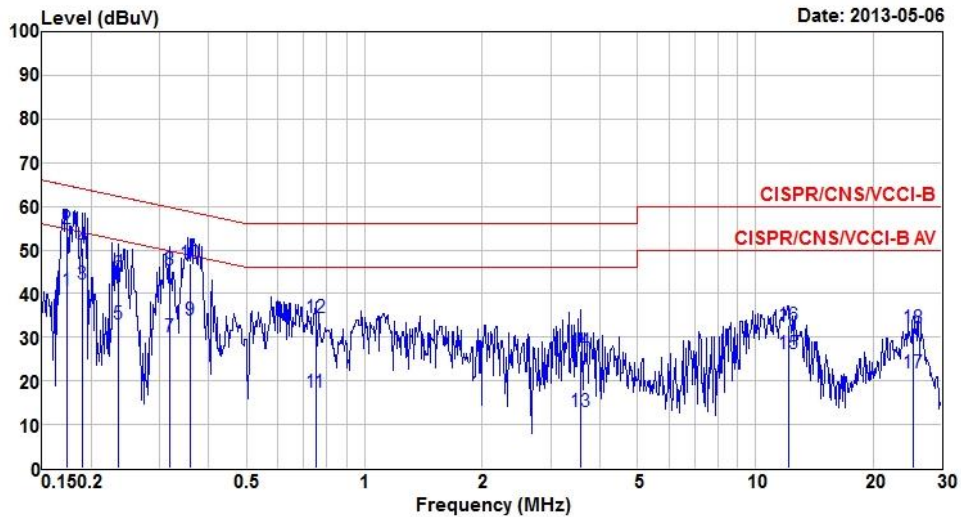


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.183	43.50	54.33	-10.83	43.31	0.05	0.14	Average
2	0.183	52.68	64.33	-11.65	52.49	0.05	0.14	QP
3	0.239	28.41	52.13	-23.72	28.21	0.05	0.15	Average
4	0.239	43.01	62.13	-19.12	42.81	0.05	0.15	QP
5	0.363	29.53	48.65	-19.12	29.40	0.06	0.07	Average
6	0.363	40.93	58.65	-17.72	40.80	0.06	0.07	QP
7	3.346	15.87	46.00	-30.13	15.47	0.18	0.22	Average
8	3.346	29.14	56.00	-26.86	28.74	0.18	0.22	QP
9	11.996	27.81	50.00	-22.19	26.95	0.74	0.12	Average
10	11.996	32.54	60.00	-27.46	31.68	0.74	0.12	QP
11	25.321	22.25	50.00	-27.75	20.49	1.26	0.50	Average
12	25.321	29.95	60.00	-30.05	28.19	1.26	0.50	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



Power Phase	Neutral	Test Freq. (MHz)	2437
Test Mode	A2		

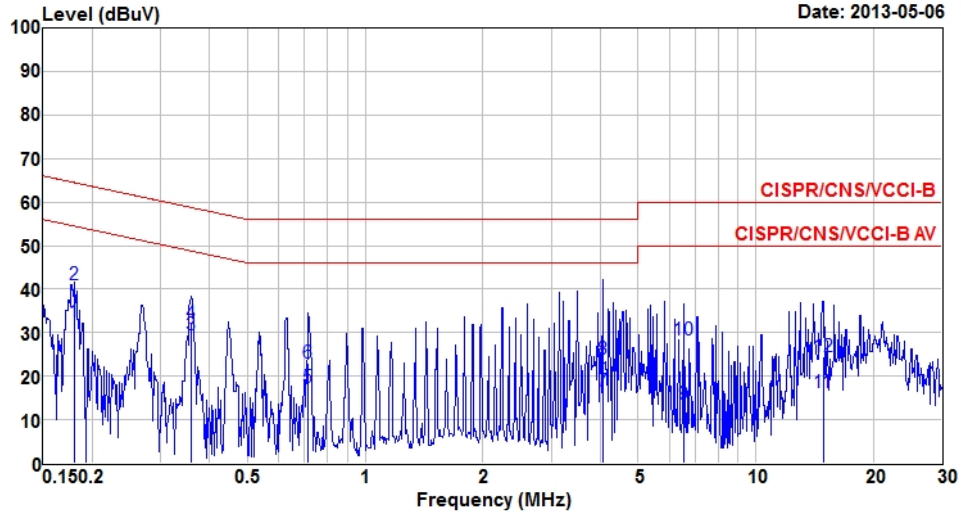


	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.173	40.73	54.81	-14.08	40.57	0.04	0.12	Average
2	0.173	55.00	64.81	-9.81	54.84	0.04	0.12	QP
3	0.190	42.23	54.02	-11.79	42.03	0.04	0.16	Average
4	0.190	50.56	64.02	-13.46	50.36	0.04	0.16	QP
5	0.234	33.13	52.30	-19.17	32.94	0.04	0.15	Average
6	0.234	44.49	62.30	-17.81	44.30	0.04	0.15	QP
7	0.317	30.10	49.80	-19.70	29.96	0.05	0.09	Average
8	0.317	45.31	59.80	-14.49	45.17	0.05	0.09	QP
9	0.360	34.01	48.74	-14.73	33.88	0.06	0.07	Average
10	0.360	47.04	58.74	-11.70	46.91	0.06	0.07	QP
11	0.751	17.51	46.00	-28.49	17.36	0.11	0.04	Average
12	0.751	34.59	56.00	-21.41	34.44	0.11	0.04	QP
13	3.584	13.00	46.00	-33.00	12.62	0.15	0.23	Average
14	3.584	26.77	56.00	-29.23	26.39	0.15	0.23	QP
15	12.124	26.33	50.00	-23.67	25.49	0.72	0.12	Average
16	12.124	32.79	60.00	-27.21	31.95	0.72	0.12	QP
17	25.321	21.87	50.00	-28.13	20.10	1.27	0.50	Average
18	25.321	32.30	60.00	-27.70	30.53	1.27	0.50	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBUV) = Limit Line (dBUV) – Level (dBUV).



Power Phase	Line	Test Freq. (MHz)	2437
Test Mode	B2		

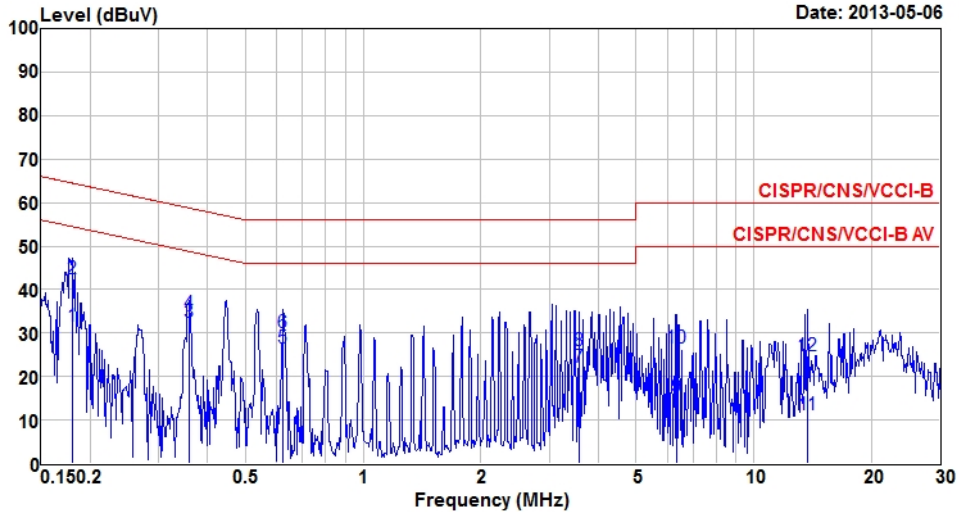


	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.180	32.42	54.50	-22.08	32.23	0.05	0.14	Average
2	0.180	41.12	64.50	-23.38	40.93	0.05	0.14	QP
3	0.358	29.64	48.78	-19.14	29.51	0.06	0.07	Average
4	0.358	32.14	58.78	-26.64	32.01	0.06	0.07	QP
5	0.716	17.56	46.00	-28.44	17.41	0.11	0.04	Average
6	0.716	22.96	56.00	-33.04	22.81	0.11	0.04	QP
7	4.049	16.43	46.00	-29.57	16.03	0.16	0.24	Average
8	4.049	23.90	56.00	-32.10	23.50	0.16	0.24	QP
9	6.557	13.72	50.00	-36.28	13.25	0.30	0.17	Average
10	6.557	28.19	60.00	-31.81	27.72	0.30	0.17	QP
11	14.907	16.17	50.00	-33.83	15.08	0.96	0.13	Average
12	14.907	24.48	60.00	-35.52	23.39	0.96	0.13	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBUV) = Limit Line (dBUV) – Level (dBUV).



Power Phase	Neutral	Test Freq. (MHz)	2437
Test Mode	B2		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.180	31.48	54.50	-23.02	31.30	0.04	0.14	Average
2	0.180	42.57	64.50	-21.93	42.39	0.04	0.14	QP
3	0.358	32.37	48.78	-16.41	32.24	0.06	0.07	Average
4	0.358	34.61	58.78	-24.17	34.48	0.06	0.07	QP
5	0.624	26.69	46.00	-19.31	26.54	0.10	0.05	Average
6	0.624	29.98	56.00	-26.02	29.83	0.10	0.05	QP
7	3.565	21.99	46.00	-24.01	21.61	0.15	0.23	Average
8	3.565	25.89	56.00	-30.11	25.51	0.15	0.23	QP
9	6.352	15.26	50.00	-34.74	14.82	0.27	0.17	Average
10	6.352	26.59	60.00	-33.41	26.15	0.27	0.17	QP
11	13.768	11.16	50.00	-38.84	10.20	0.83	0.13	Average
12	13.768	24.69	60.00	-35.31	23.73	0.83	0.13	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dBuV) = Limit Line (dBuV) – Level (dBuV).



3.2 6dB Bandwidth and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

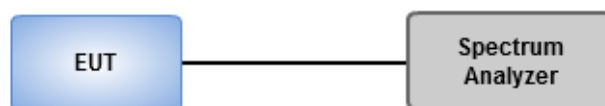
Procedure for 6dB bandwidth

1. Set resolution bandwidth = 100 kHz, Video bandwidth = 300 kHz for 11b/g/HT20 mode
Set resolution bandwidth = 1 MHz, Video bandwidth = 3 MHz for HT40 mode
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Procedure for 99% occupied bandwidth

1. Set resolution bandwidth = 300 kHz, Video bandwidth = 1 MHz for 11b/g/HT20 mode
Set resolution bandwidth = 1 MHz, Video bandwidth = 3 MHz for HT40 mode
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the 99 % power bandwidth function of the instrument to measure occupied bandwidth

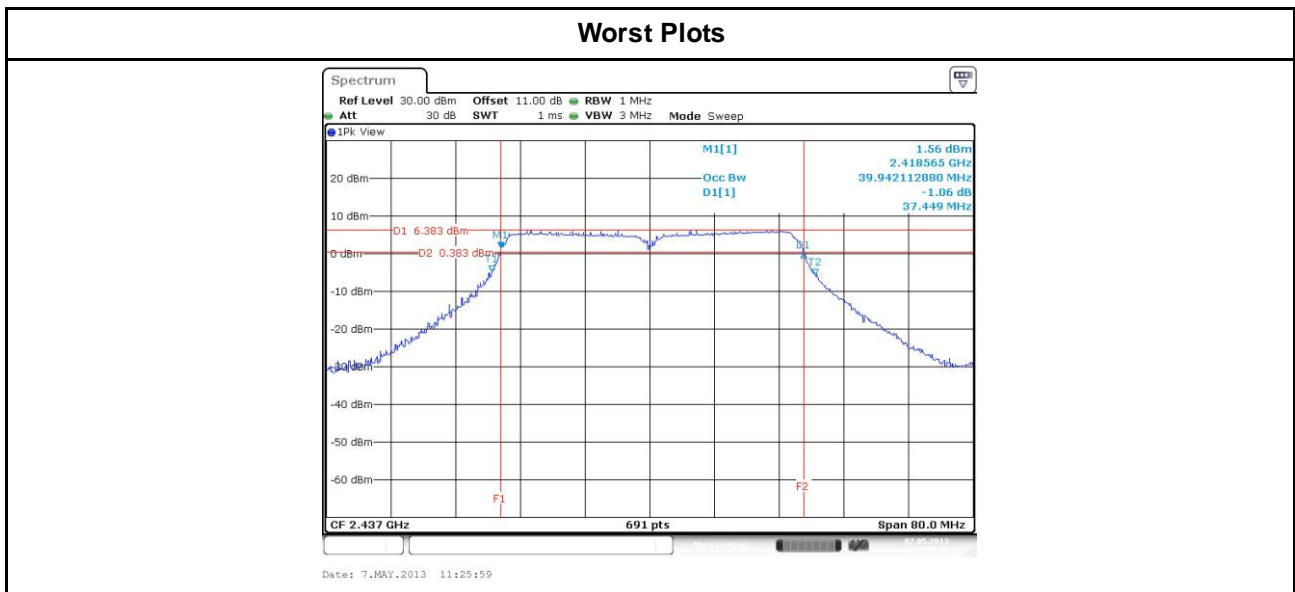
3.2.3 Test Setup





3.2.4 Test Result of 6dB Bandwidth and Occupied Bandwidth

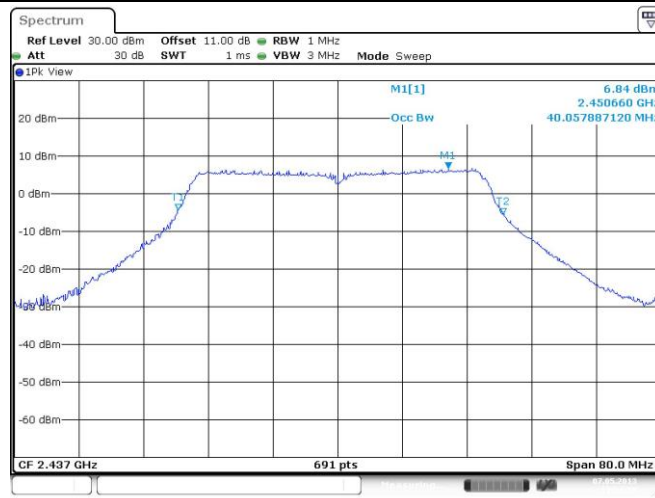
Modulation Mode	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
		Chain 0	Chain 1	Chain 2	Chain 3	
11b	2412	10.09	10.09	---	---	500
11b	2437	10.09	10.09	---	---	500
11b	2462	10.09	10.09	---	---	500
11g	2412	16.35	16.35	---	---	500
11g	2437	16.35	16.35	---	---	500
11g	2462	16.35	16.35	---	---	500
HT20	2412	17.62	17.57	---	---	500
HT20	2437	17.62	17.62	---	---	500
HT20	2462	17.62	17.62	---	---	500
HT40	2422	37.33	37.10	---	---	500
HT40	2437	37.45	36.75	---	---	500
HT40	2452	37.33	36.75	---	---	500





Modulation Mode	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
11b	2412	13.95	14.07	---	---
11b	2437	13.84	13.95	---	---
11b	2462	13.95	13.95	---	---
11g	2412	17.19	16.90	---	---
11g	2437	18.06	17.66	---	---
11g	2462	17.25	16.90	---	---
HT20	2412	18.23	18.12	---	---
HT20	2437	18.52	18.35	---	---
HT20	2462	18.29	18.12	---	---
HT40	2422	40.06	38.90	---	---
HT40	2437	40.06	38.67	---	---
HT40	2452	40.06	38.78	---	---

Worst Plots



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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1 Watt.

- Antenna gain ≤ 6 dBi, no any corresponding reduction is in output power limit.
- Antenna gain > 6 dBi
 - Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
 - Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations, no any corresponding reduction is in transmitter peak output power

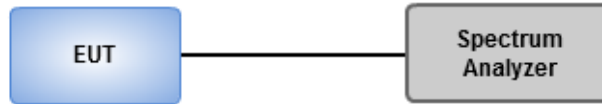
3.3.2 Test Procedures

- Maximum Peak Conducted Output Power
 - Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - Power meter**
 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than 6dB bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Output Power
 - Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = RMS.
 2. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 3. Perform the measurement over a single sweep.
 4. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW(26dBc) band edges.
 - Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than 6dB bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

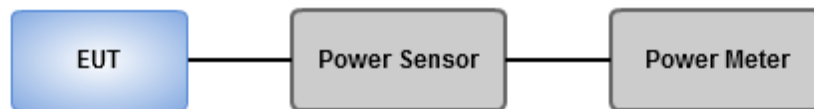


3.3.3 Test Setup

- RF Output Power (Spectrum Analyzer)



- RF Output Power (Power Meter)



3.3.4 Test Result of Maximum Output Power

Modulation Mode	Freq. (MHz)	Peak Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
		Chain 0	Chain 1	Chain 2	Chain 3			
11b	2412	16.35	16.06	---	---	83.516	19.22	30
11b	2437	21.46	21.15	---	---	270.275	24.32	30
11b	2462	16.43	16.1	---	---	84.692	19.28	30
11g	2412	12.88	12.43	---	---	36.907	15.67	30
11g	2437	20.94	20.46	---	---	235.338	23.72	30
11g	2462	13.51	13.43	---	---	44.468	16.48	30
HT20	2412	12.11	11.7	---	---	31.047	14.92	30
HT20	2437	20.21	19.54	---	---	194.904	22.90	30
HT20	2462	14.05	14.08	---	---	50.996	17.08	30
HT40	2422	8.7	8.32	---	---	14.205	11.52	30
HT40	2437	12.87	12.58	---	---	37.478	15.74	30
HT40	2452	9.38	9.17	---	---	16.930	12.29	30



3.4 Power Spectral Density

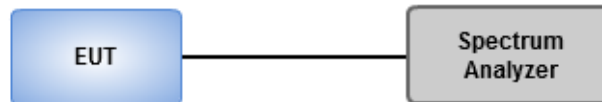
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in 3kHz band

3.4.2 Test Procedures

- Method AVGPSD-1 (For 11 b / g / HT20 mode).
 1. Set the RBW = 100kHz, VBW = 300kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Employ trace averaging (RMS) mode over 100 traces
 4. Use the peakmarker function to determine the maximum amplitude level.
- Method AVGPSD-2 Alternative (For HT40 mode)
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS
 3. Set the sweep time = 8.07 s
 4. Perform the measurement over a single sweep.
 5. Use the peakmarker function to determine the maximum amplitude level.

3.4.3 Test Setup

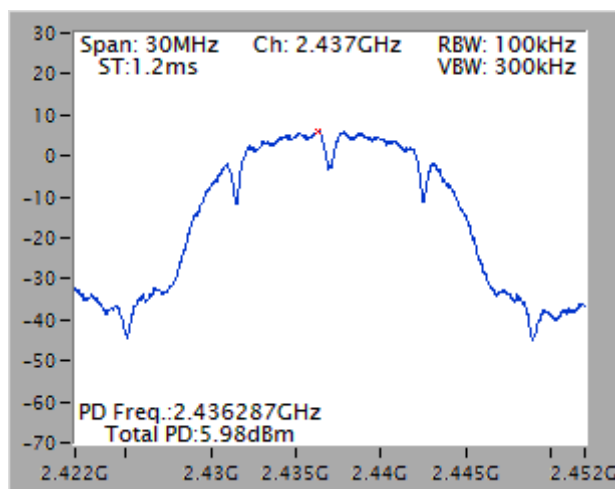




3.4.4 Test Result of Power Spectral Density

Modulation Mode	Freq. (MHz)	Total Power Spectral Density (dBm/100kHz)	Limit (dBm/3kHz)
11b	2412	0.46	8
11b	2437	5.98	8
11b	2462	1.13	8
11g	2412	-5.13	8
11g	2437	3.02	8
11g	2462	-3.99	8
HT20	2412	-5.85	8
HT20	2437	1.91	8
HT20	2462	-4.40	8
HT40	2422	-12.49	8
HT40	2437	-8.53	8
HT40	2452	-11.74	8

Worst Plots





3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions 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:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

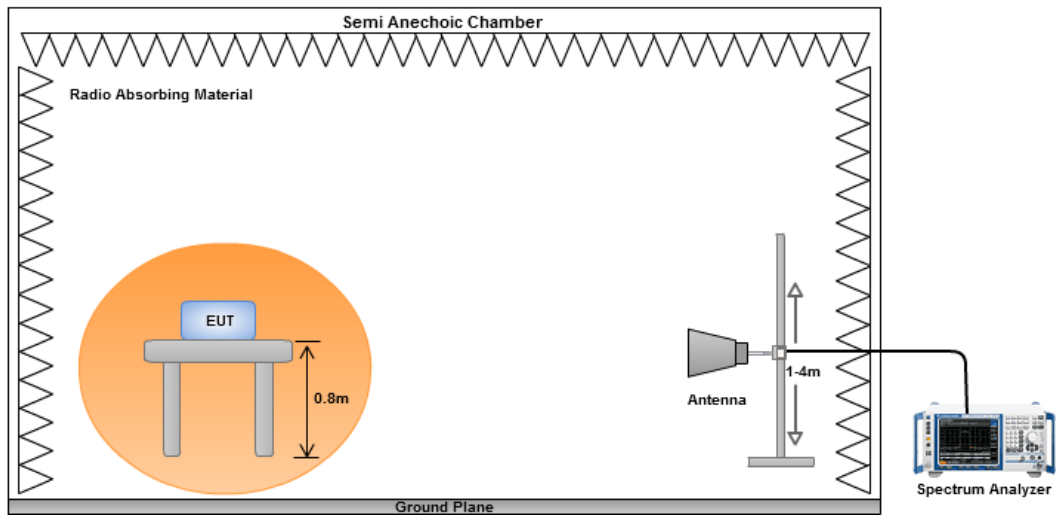
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=3MHz and RMS detector is for average measured value of radiated emission above 1GHz.



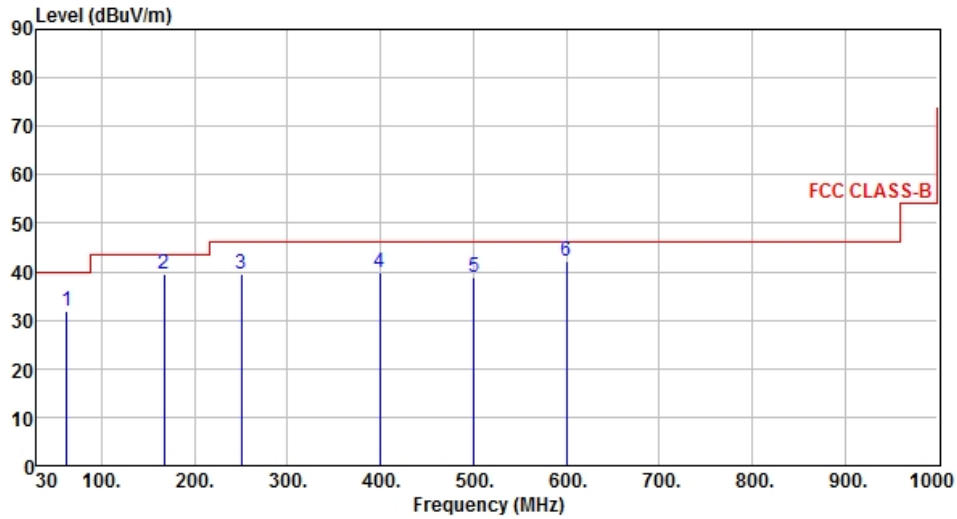
3.5.3 Test Setup





3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A1		

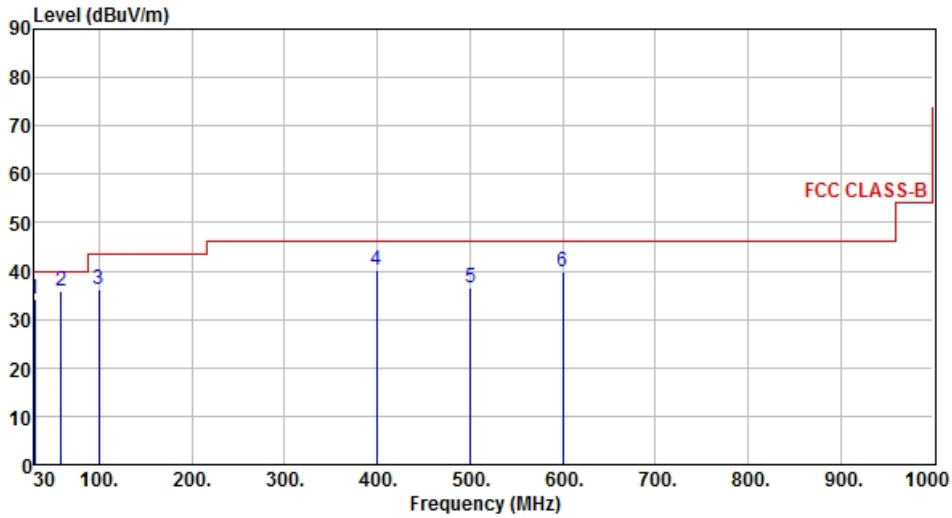


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	62.01	31.94	40.00	-8.06	49.03	-17.09	Peak	-----	-----
2	166.77	39.53	43.50	-3.97	56.16	-16.63	Peak	-----	-----
3	250.19	39.46	46.00	-6.54	56.80	-17.34	Peak	-----	-----
4	399.57	39.80	46.00	-6.20	52.85	-13.05	Peak	-----	-----
5	500.45	38.91	46.00	-7.09	49.85	-10.94	Peak	-----	-----
6	600.36	42.21	46.00	-3.79	51.11	-8.90	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A1		

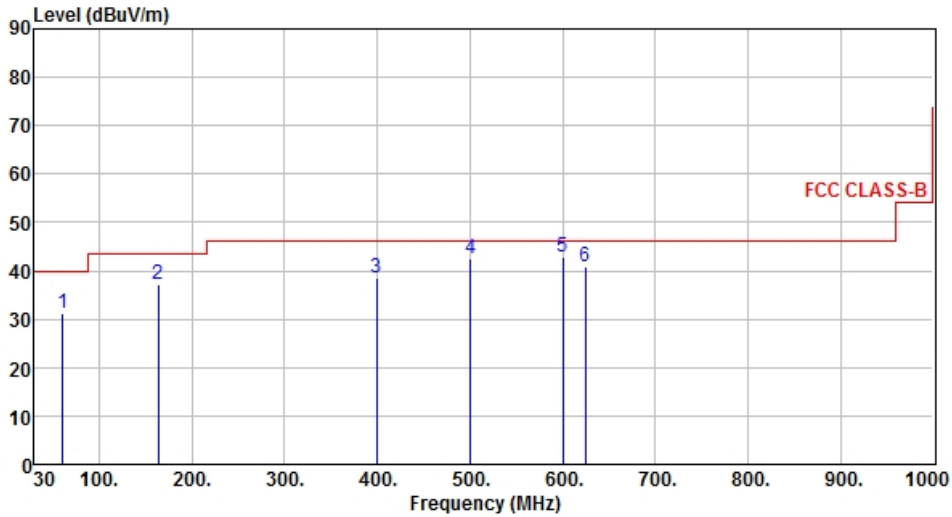


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	34.16	40.00	-5.84	51.20	-17.04	QP	-----	-----
2	59.10	35.83	40.00	-4.17	52.46	-16.63	QP	-----	-----
3	99.84	36.15	43.50	-7.35	57.47	-21.32	Peak	-----	-----
4	399.57	40.13	46.00	-5.87	53.18	-13.05	Peak	-----	-----
5	500.45	36.47	46.00	-9.53	47.41	-10.94	Peak	-----	-----
6	600.36	40.00	46.00	-6.00	48.90	-8.90	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	B1		

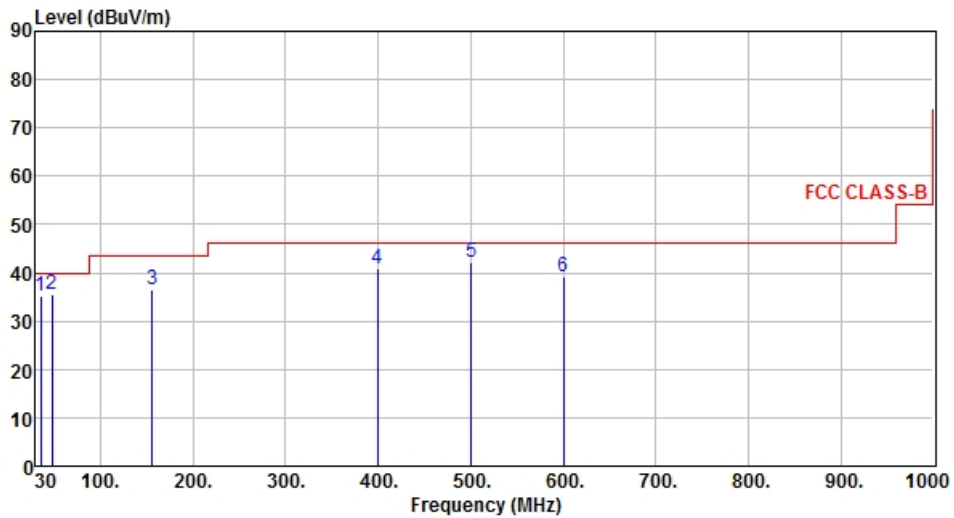


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.04	31.15	40.00	-8.85	48.05	-16.90	Peak	-----	-----
2	163.86	37.28	43.50	-6.22	53.79	-16.51	Peak	-----	-----
3	399.57	38.59	46.00	-7.41	51.64	-13.05	Peak	-----	-----
4	500.45	42.38	46.00	-3.62	53.32	-10.94	Peak	-----	-----
5	600.36	42.88	46.00	-3.12	51.78	-8.90	Peak	-----	-----
6	624.61	40.99	46.00	-5.01	49.58	-8.59	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	B1		

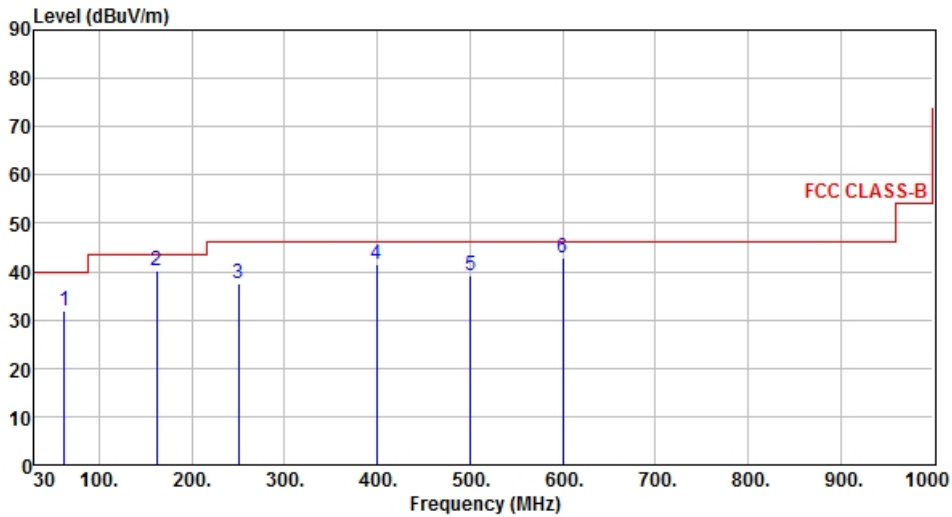


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	35.82	35.30	40.00	-4.70	51.99	-16.69	QP	-----	-----
2	47.46	35.51	40.00	-4.49	51.49	-15.98	QP	-----	-----
3	156.10	36.49	43.50	-7.01	52.83	-16.34	Peak	-----	-----
4	399.57	40.98	46.00	-5.02	54.03	-13.05	Peak	-----	-----
5	500.45	42.09	46.00	-3.91	53.03	-10.94	Peak	-----	-----
6	600.36	39.13	46.00	-6.87	48.03	-8.90	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A2		

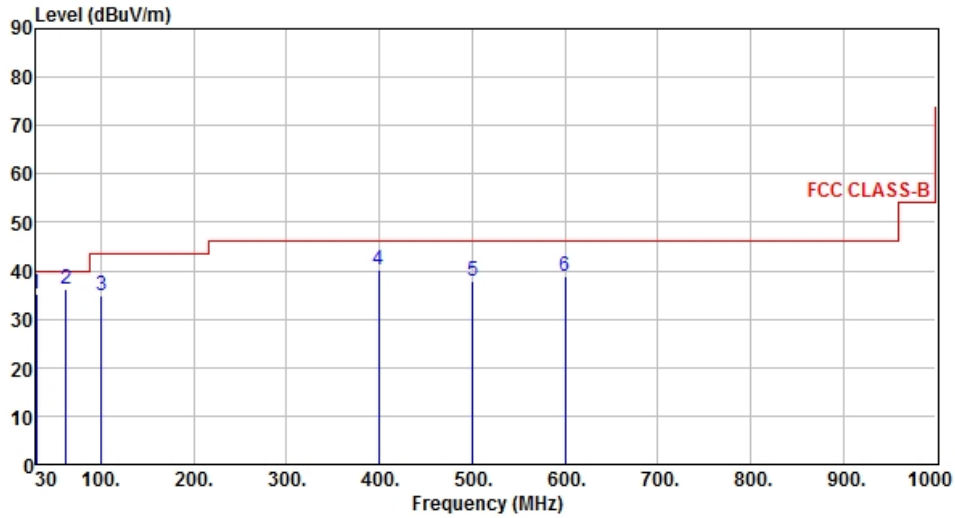


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	62.01	31.96	40.00	-8.04	49.05	-17.09	Peak	-----	-----
2	161.92	40.17	43.50	-3.33	56.61	-16.44	Peak	-----	-----
3	250.19	37.57	46.00	-8.43	54.91	-17.34	Peak	-----	-----
4	399.57	41.51	46.00	-4.49	54.56	-13.05	Peak	-----	-----
5	500.45	39.13	46.00	-6.87	50.07	-10.94	Peak	-----	-----
6	600.36	42.87	46.00	-3.13	51.77	-8.90	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A2		

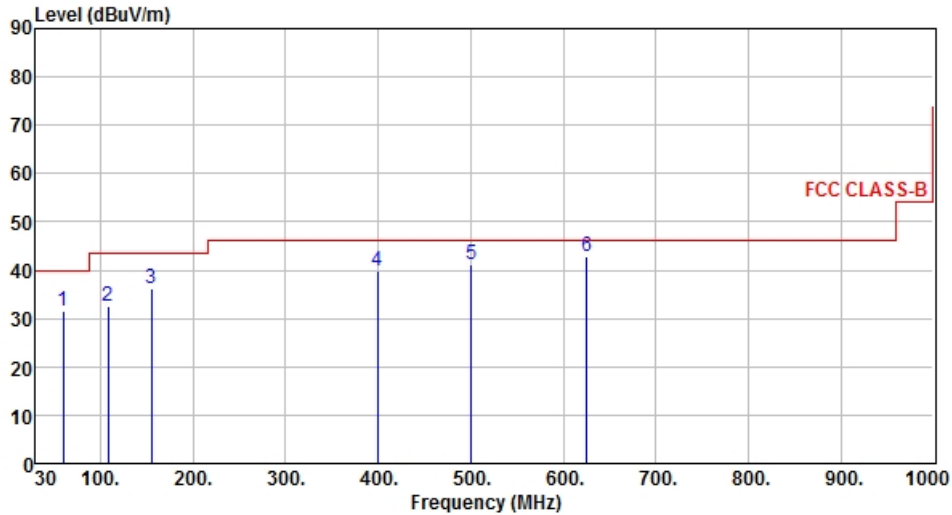


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	35.14	40.00	-4.86	52.18	-17.04	QP	-----	-----
2	62.01	36.22	40.00	-3.78	53.31	-17.09	QP	-----	-----
3	100.81	34.79	43.50	-8.71	55.95	-21.16	Peak	-----	-----
4	399.57	40.21	46.00	-5.79	53.26	-13.05	Peak	-----	-----
5	500.45	37.89	46.00	-8.11	48.83	-10.94	Peak	-----	-----
6	600.36	38.71	46.00	-7.29	47.61	-8.90	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	B2		

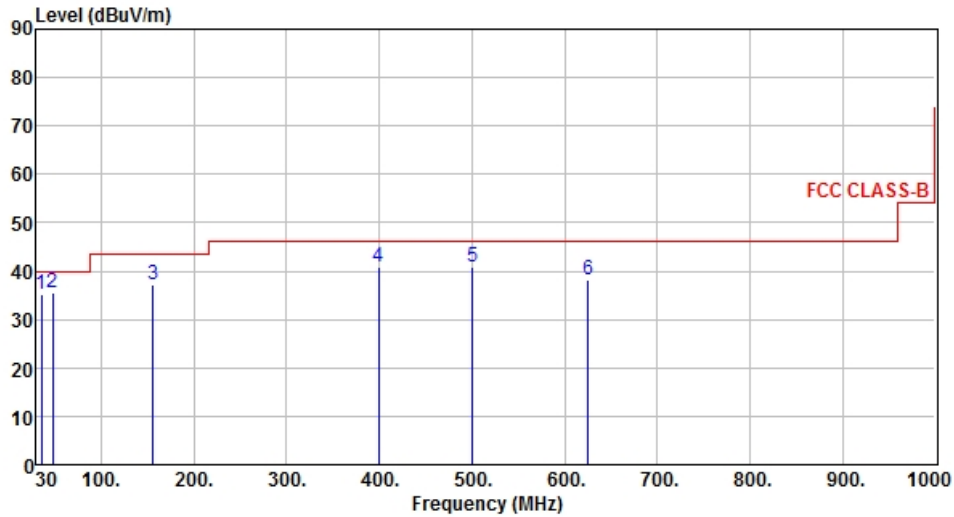


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	60.07	31.49	40.00	-8.51	48.20	-16.71	Peak	-----	-----
2	108.57	32.68	43.50	-10.82	52.53	-19.85	Peak	-----	-----
3	155.13	36.34	43.50	-7.16	52.67	-16.33	Peak	-----	-----
4	399.57	39.95	46.00	-6.05	53.00	-13.05	Peak	-----	-----
5	500.45	41.04	46.00	-4.96	51.98	-10.94	Peak	-----	-----
6	625.58	42.79	46.00	-3.21	51.37	-8.58	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	B2		



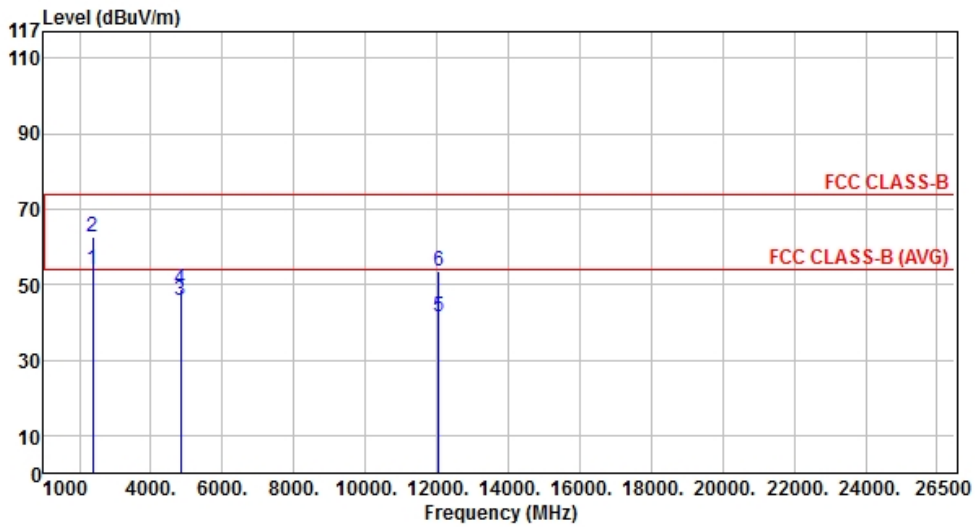
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	35.82	35.30	40.00	-4.70	51.99	-16.69	QP	-----	-----
2	47.46	35.55	40.00	-4.45	51.53	-15.98	QP	-----	-----
3	156.10	37.18	43.50	-6.32	53.52	-16.34	Peak	-----	-----
4	399.57	40.92	46.00	-5.08	53.97	-13.05	Peak	-----	-----
5	500.45	40.97	46.00	-5.03	51.91	-10.94	Peak	-----	-----
6	625.58	38.18	46.00	-7.82	46.76	-8.58	Peak	-----	-----

Note 1: Level (dBuV/m) = Read Level (dBuV/m) + Antenna Factor (dB) + Cable Loss (dB) - Preamplifier Factor (dB).
 2: Over Limit (dBuV/m) = Limit Line (dBuV/m) - Level (dBuV/m).



3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Polarization	Horizontal	Test Freq. (MHz)	2412
Test Mode	A1		

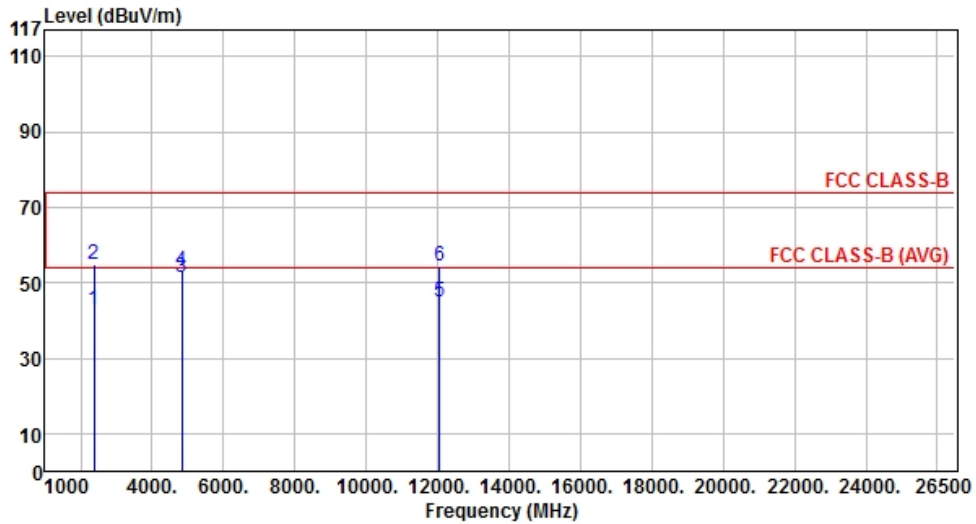


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2386.00	53.87	54.00	-0.13	56.79	-2.92	Average	-----	-----
2	2386.00	62.79	74.00	-11.21	65.71	-2.92	Peak	-----	-----
3	4824.00	45.69	54.00	-8.31	41.00	4.69	Average	-----	-----
4	4824.00	48.79	74.00	-25.21	44.10	4.69	Peak	-----	-----
5	12060.00	41.53	54.00	-12.47	27.51	14.02	Average	-----	-----
6	12060.00	53.43	74.00	-20.57	39.41	14.02	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2412
Test Mode	A1		

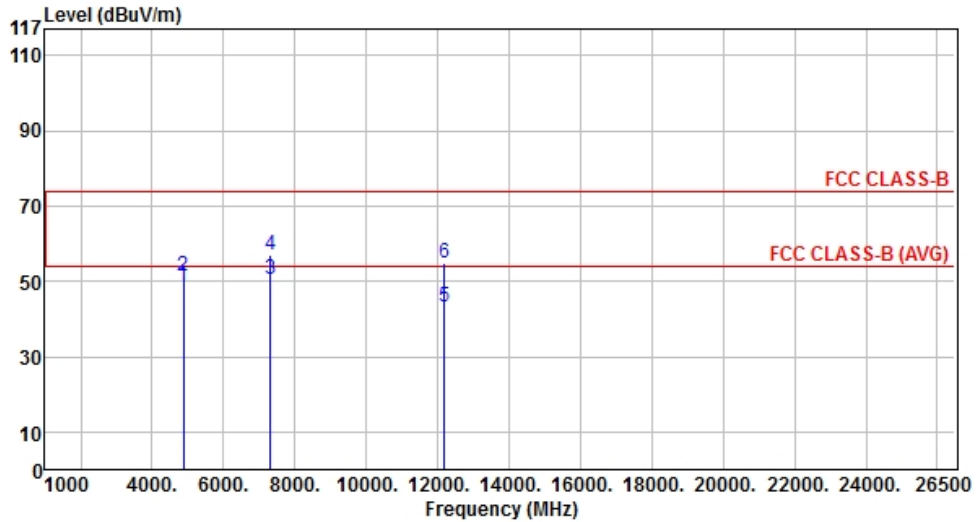


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2386.00	42.83	54.00	-11.17	45.75	-2.92	Average	-----	-----
2	2386.00	54.70	74.00	-19.30	57.62	-2.92	Peak	-----	-----
3	4824.00	51.52	54.00	-2.48	46.83	4.69	Average	-----	-----
4	4824.00	53.29	74.00	-20.71	48.60	4.69	Peak	-----	-----
5	12060.00	45.03	54.00	-8.97	31.01	14.02	Average	-----	-----
6	12060.00	54.60	74.00	-19.40	40.58	14.02	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A1		

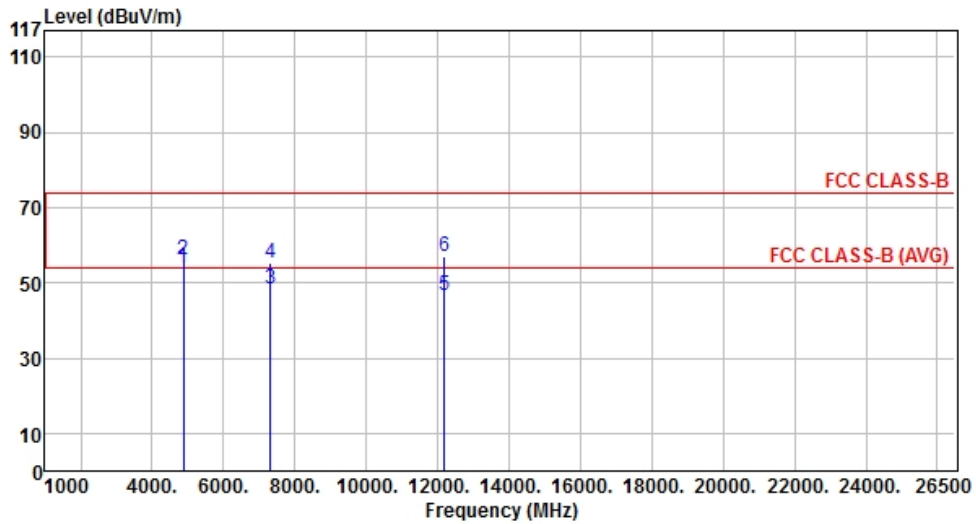


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4874.00	48.86	54.00	-5.14	44.09	4.77	Average	-----	-----
2	4874.00	51.32	74.00	-22.68	46.55	4.77	Peak	-----	-----
3	7311.00	50.66	54.00	-3.34	41.09	9.57	Average	-----	-----
4	7311.00	57.06	74.00	-16.94	47.49	9.57	Peak	-----	-----
5	12185.00	43.11	54.00	-10.89	28.99	14.12	Average	-----	-----
6	12185.00	54.96	74.00	-19.04	40.84	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A1		

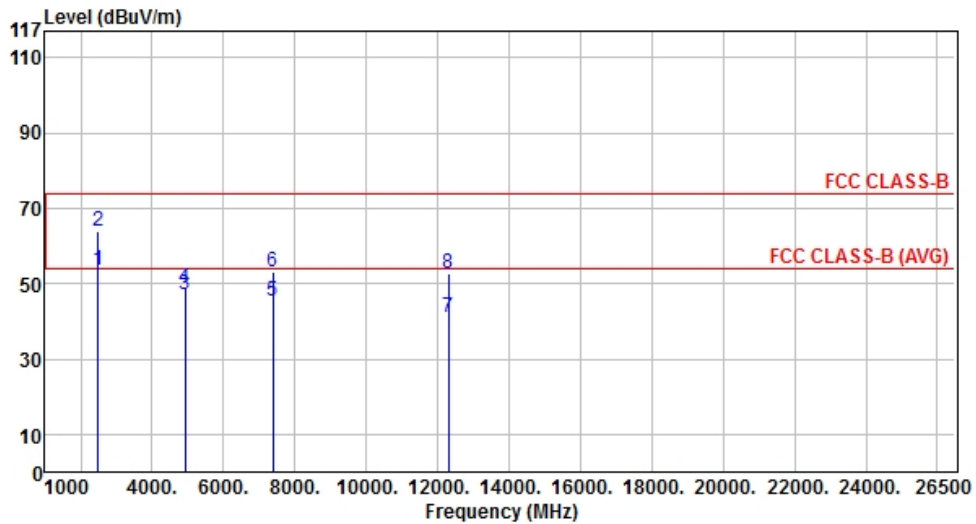


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4874.00	53.92	54.00	-0.08	49.15	4.77	Average	-----	-----
2	4874.00	56.18	74.00	-17.82	51.41	4.77	Peak	-----	-----
3	7311.00	48.26	54.00	-5.74	38.69	9.57	Average	-----	-----
4	7311.00	55.38	74.00	-18.62	45.81	9.57	Peak	-----	-----
5	12185.00	46.42	54.00	-7.58	32.30	14.12	Average	-----	-----
6	12185.00	56.95	74.00	-17.05	42.83	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2462
Test Mode	A1		

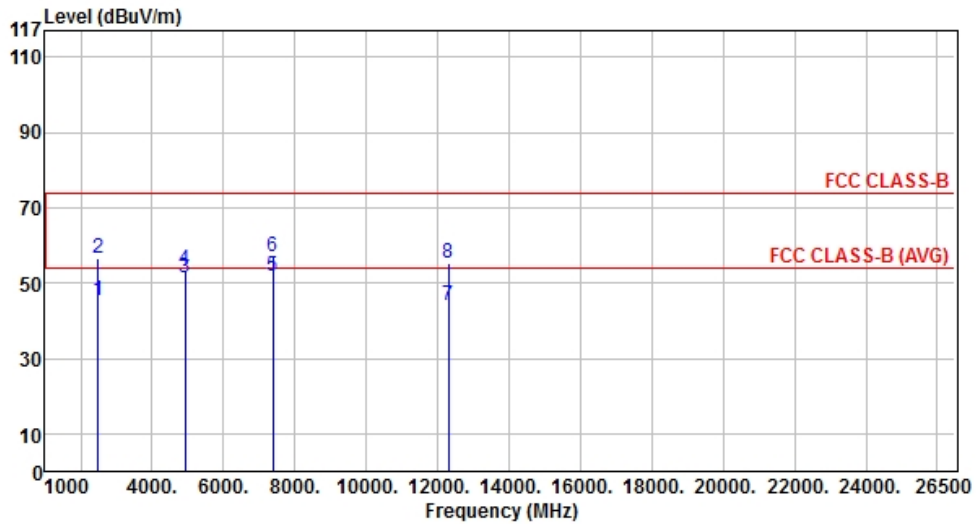


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	53.75	54.00	-0.25	56.15	-2.40	Average	-----	-----
2	2487.00	63.70	74.00	-10.30	66.10	-2.40	Peak	-----	-----
3	4924.00	46.88	54.00	-7.12	42.02	4.86	Average	-----	-----
4	4924.00	48.74	74.00	-25.26	43.88	4.86	Peak	-----	-----
5	7386.00	45.32	54.00	-8.68	35.64	9.68	Average	-----	-----
6	7386.00	53.02	74.00	-20.98	43.34	9.68	Peak	-----	-----
7	12310.00	40.89	54.00	-13.11	26.67	14.22	Average	-----	-----
8	12310.00	52.52	74.00	-21.48	38.30	14.22	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2462
Test Mode	A1		

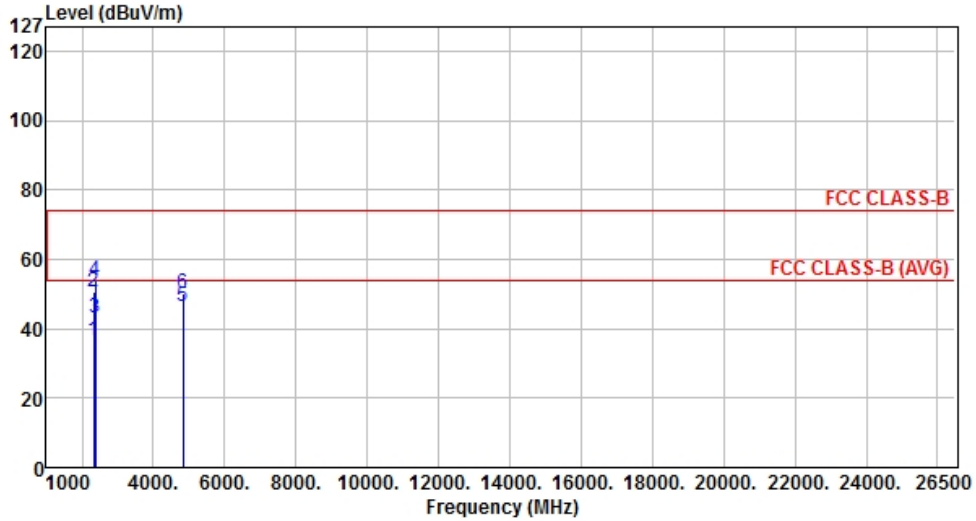


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	45.32	54.00	-8.68	47.72	-2.40	Average	-----	-----
2	2487.00	56.58	74.00	-17.42	58.98	-2.40	Peak	-----	-----
3	4924.00	51.55	54.00	-2.45	46.69	4.86	Average	-----	-----
4	4924.00	53.65	74.00	-20.35	48.79	4.86	Peak	-----	-----
5	7386.00	51.67	54.00	-2.33	41.99	9.68	Average	-----	-----
6	7386.00	56.86	74.00	-17.14	47.18	9.68	Peak	-----	-----
7	12310.00	43.82	54.00	-10.18	29.60	14.22	Average	-----	-----
8	12310.00	55.32	74.00	-18.68	41.10	14.22	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2412
Test Mode	A2		

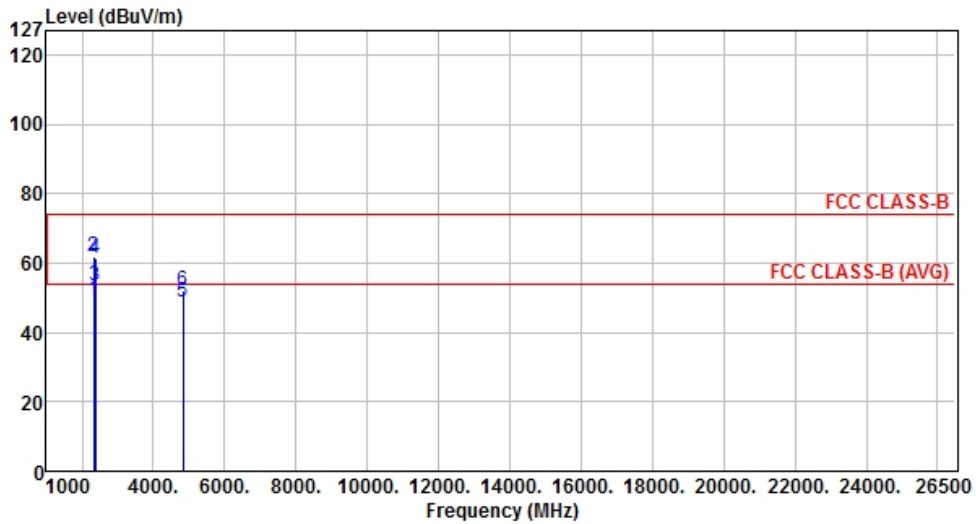


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2327.00	36.53	54.00	-17.47	39.75	-3.22	Average	-----	-----
2	2327.00	50.50	74.00	-23.50	53.72	-3.22	Peak	-----	-----
3	2386.00	43.11	54.00	-10.89	46.01	-2.90	Average	-----	-----
4	2386.00	53.95	74.00	-20.05	56.85	-2.90	Peak	-----	-----
5	4824.00	46.49	54.00	-7.51	41.80	4.69	Average	-----	-----
6	4824.00	50.29	74.00	-23.71	45.60	4.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2412
Test Mode	A2		

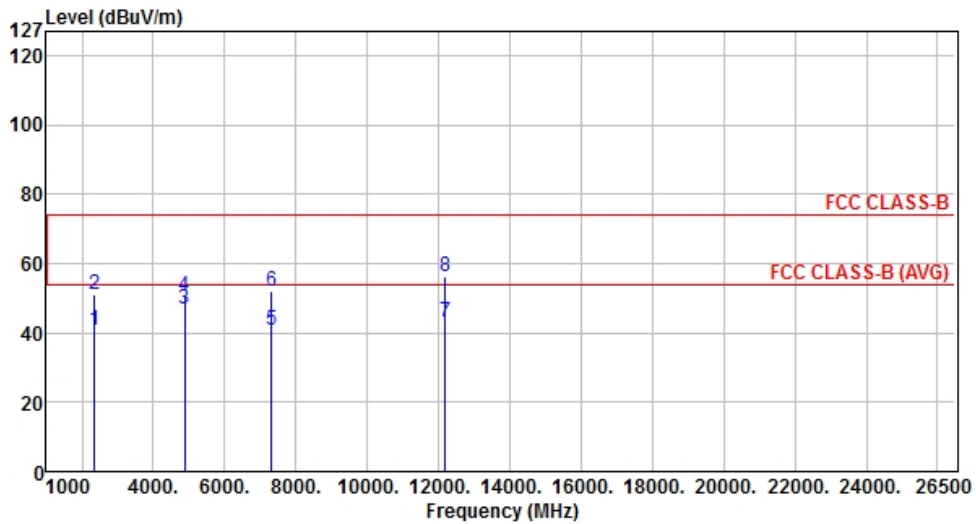


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2327.00	49.17	54.00	-4.83	52.39	-3.22	Average	-----	-----
2	2327.00	61.67	74.00	-12.33	64.89	-3.22	Peak	-----	-----
3	2386.00	53.52	54.00	-0.48	56.42	-2.90	Average	-----	-----
4	2386.00	61.41	74.00	-12.59	64.33	-2.92	Peak	-----	-----
5	4824.00	48.85	54.00	-5.15	44.16	4.69	Average	-----	-----
6	4824.00	51.80	74.00	-22.20	47.11	4.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A2		

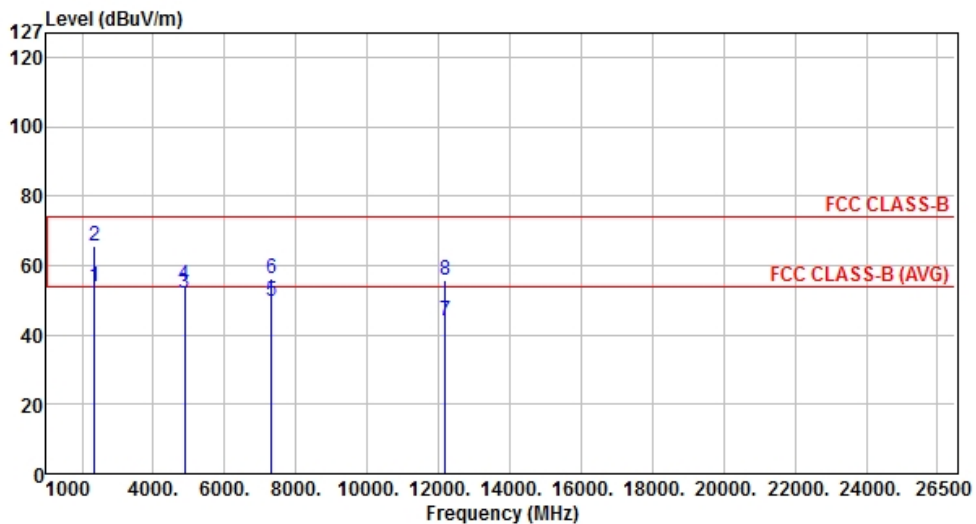


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2344.00	40.73	54.00	-13.27	43.90	-3.17	Average	-----	-----
2	2344.00	51.23	74.00	-22.77	54.40	-3.17	Peak	-----	-----
3	4874.00	46.85	54.00	-7.15	42.08	4.77	Average	-----	-----
4	4874.00	50.83	74.00	-23.17	46.06	4.77	Peak	-----	-----
5	7311.00	40.86	54.00	-13.14	31.29	9.57	Average	-----	-----
6	7311.00	51.86	74.00	-22.14	42.29	9.57	Peak	-----	-----
7	12185.00	43.12	54.00	-10.88	29.00	14.12	Average	-----	-----
8	12185.00	56.14	74.00	-17.86	42.02	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A2		

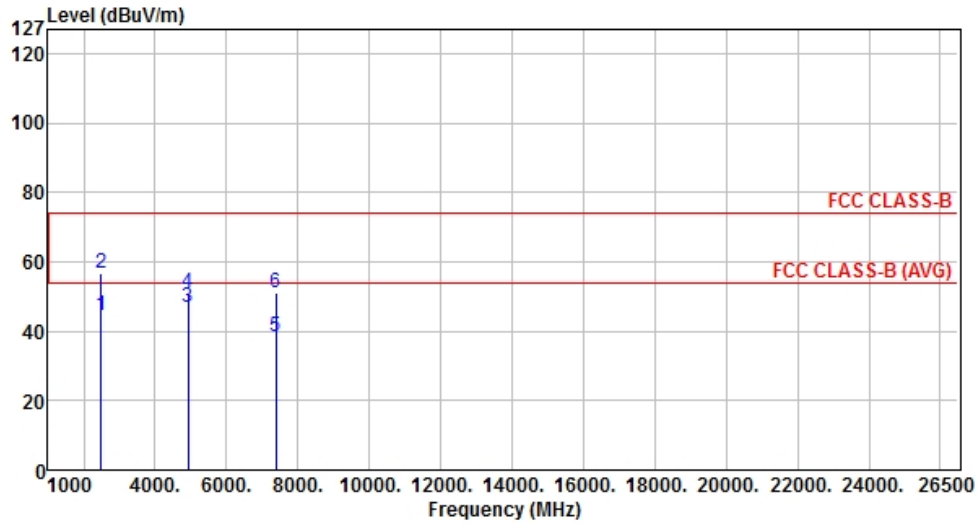


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2344.00	53.83	54.00	-0.17	56.97	-3.14	Average	-----	-----
2	2344.00	65.77	74.00	-8.23	68.91	-3.14	Peak	-----	-----
3	4874.00	52.00	54.00	-2.00	47.23	4.77	Average	-----	-----
4	4874.00	54.20	74.00	-19.80	49.43	4.77	Peak	-----	-----
5	7311.00	49.64	54.00	-4.36	40.07	9.57	Average	-----	-----
6	7311.00	56.23	74.00	-17.77	46.66	9.57	Peak	-----	-----
7	12185.00	43.92	54.00	-10.08	29.80	14.12	Average	-----	-----
8	12185.00	55.69	74.00	-18.31	41.57	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2462
Test Mode	A2		

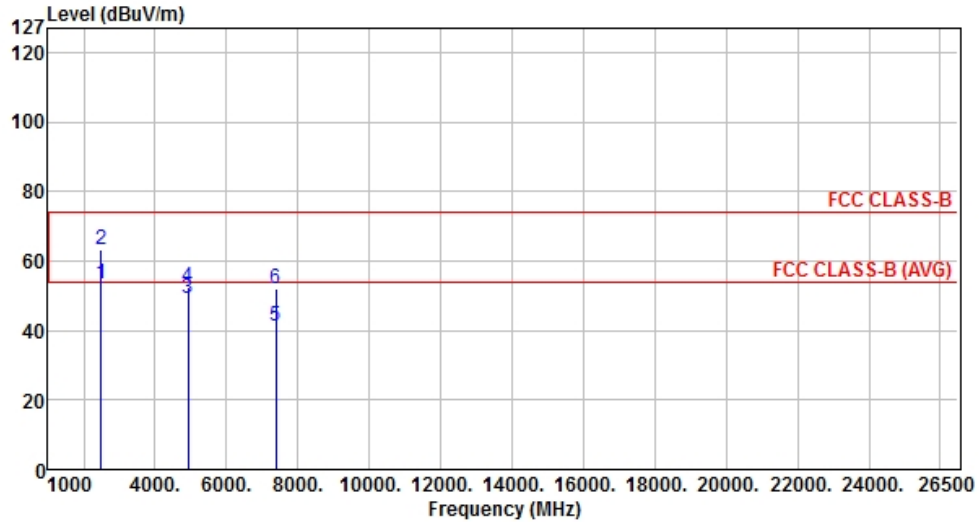


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	44.58	54.00	-9.42	46.99	-2.41	Average	-----	-----
2	2487.00	56.69	74.00	-17.31	59.10	-2.41	Peak	-----	-----
3	4924.00	47.06	54.00	-6.94	42.20	4.86	Average	-----	-----
4	4924.00	50.88	74.00	-23.12	46.02	4.86	Peak	-----	-----
5	7386.00	38.29	54.00	-15.71	28.60	9.69	Average	-----	-----
6	7386.00	50.98	74.00	-23.02	41.29	9.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2462
Test Mode	A2		



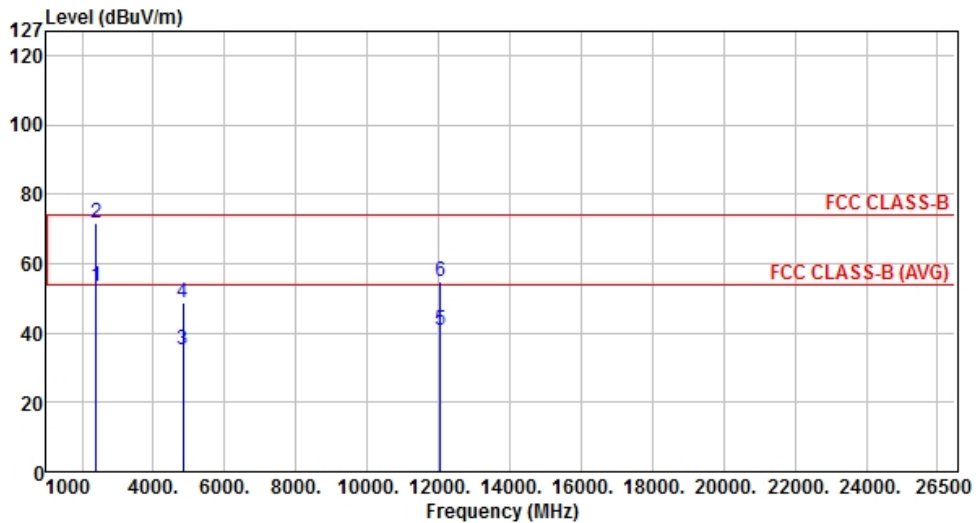
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2487.00	53.55	54.00	-0.45	55.96	-2.41	Average	-----	-----
2	2487.00	63.14	74.00	-10.86	65.54	-2.40	Peak	-----	-----
3	4924.00	49.43	54.00	-4.57	44.57	4.86	Average	-----	-----
4	4924.00	52.45	74.00	-21.55	47.59	4.86	Peak	-----	-----
5	7386.00	41.18	54.00	-12.82	31.49	9.69	Average	-----	-----
6	7386.00	52.18	74.00	-21.82	42.49	9.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Polarization	Horizontal	Test Freq. (MHz)	2412
Test Mode	A1		

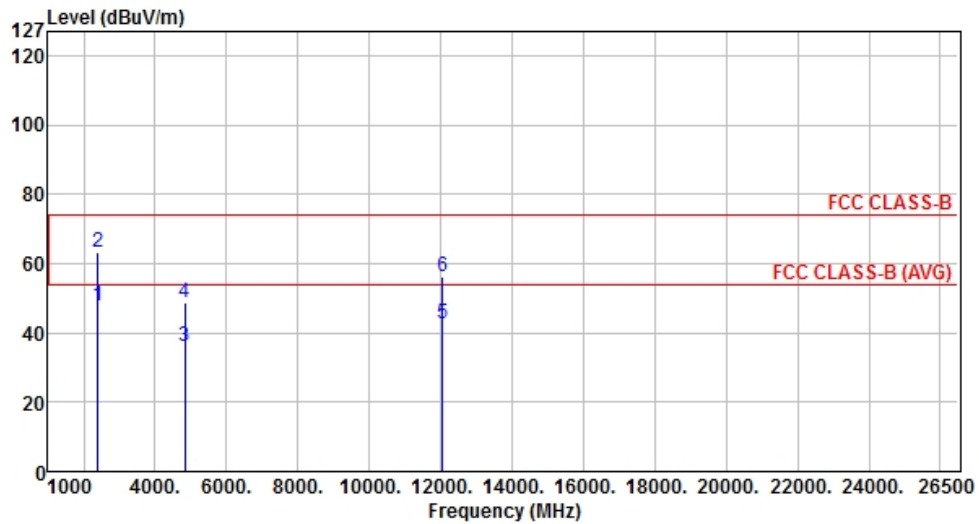


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.55	54.00	-0.45	56.45	-2.90	Average	-----	-----
2	2390.00	71.68	74.00	-2.32	74.58	-2.90	Peak	-----	-----
3	4824.00	35.15	54.00	-18.85	30.46	4.69	Average	-----	-----
4	4824.00	48.56	74.00	-25.44	43.87	4.69	Peak	-----	-----
5	12060.00	40.96	54.00	-13.04	26.94	14.02	Average	-----	-----
6	12060.00	54.73	74.00	-19.27	40.71	14.02	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2412
Test Mode	A1		

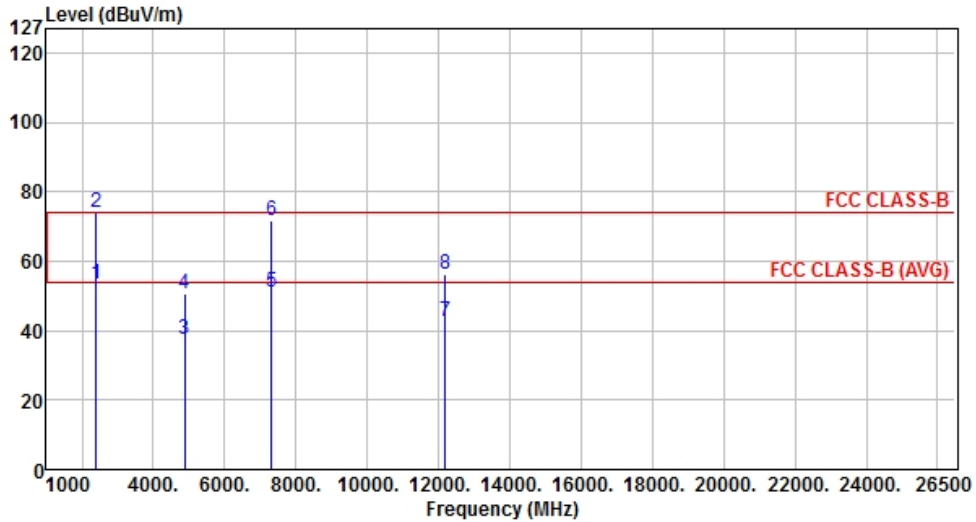


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.61	54.00	-6.39	50.51	-2.90	Average	-----	-----
2	2390.00	63.34	74.00	-10.66	66.24	-2.90	Peak	-----	-----
3	4824.00	36.15	54.00	-17.85	31.46	4.69	Average	-----	-----
4	4824.00	48.67	74.00	-25.33	43.98	4.69	Peak	-----	-----
5	12060.00	42.85	54.00	-11.15	28.83	14.02	Average	-----	-----
6	12060.00	56.39	74.00	-17.61	42.37	14.02	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A1		

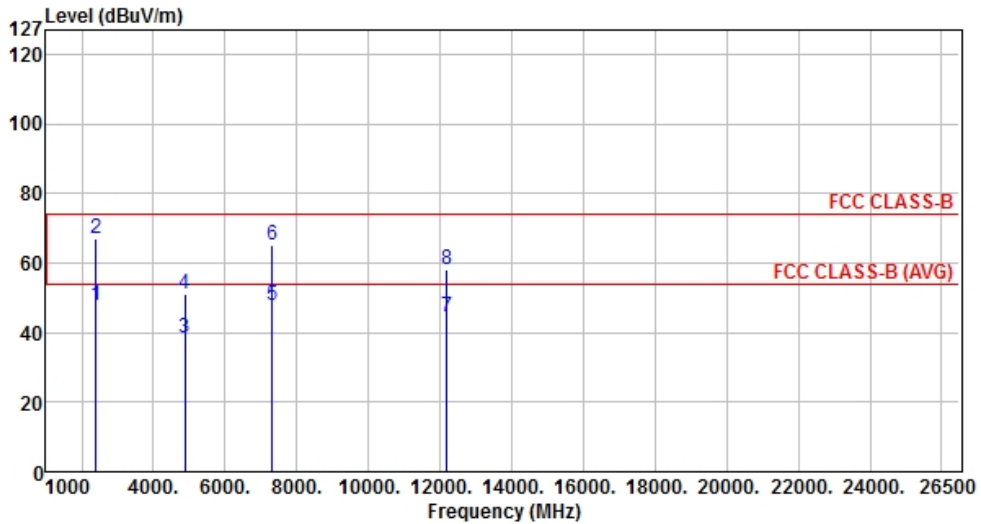


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.58	54.00	-0.42	56.48	-2.90	Average	-----	-----
2	2390.00	73.97	74.00	-0.03	76.87	-2.90	Peak	-----	-----
3	4874.00	37.37	54.00	-16.63	32.60	4.77	Average	-----	-----
4	4874.00	50.73	74.00	-23.27	45.96	4.77	Peak	-----	-----
5	7311.00	51.16	54.00	-2.84	41.59	9.57	Average	-----	-----
6	7311.00	71.86	74.00	-2.14	62.29	9.57	Peak	-----	-----
7	12185.00	42.72	54.00	-11.28	28.60	14.12	Average	-----	-----
8	12185.00	56.12	74.00	-17.88	42.00	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A1		

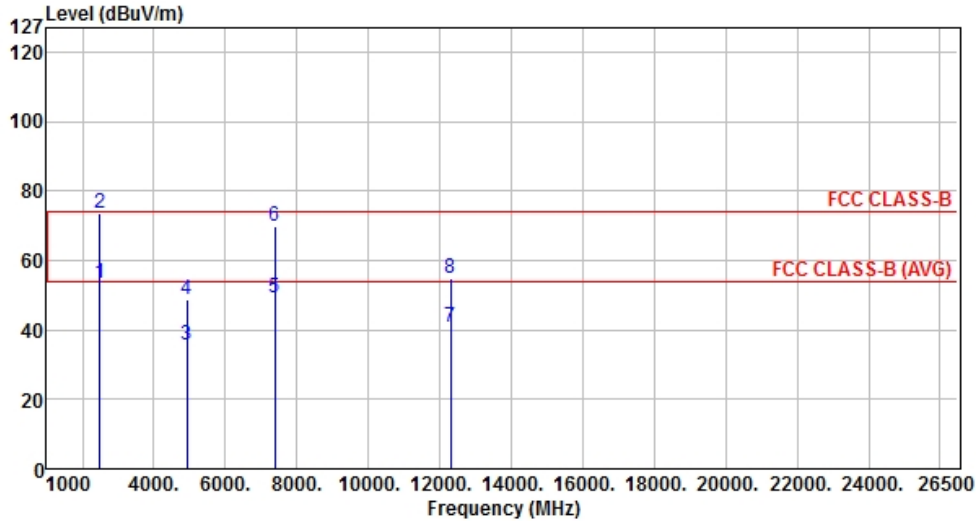


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.63	54.00	-6.37	50.53	-2.90	Average	-----	-----
2	2390.00	67.05	74.00	-6.95	69.95	-2.90	Peak	-----	-----
3	4874.00	38.47	54.00	-15.53	33.70	4.77	Average	-----	-----
4	4874.00	50.87	74.00	-23.13	46.10	4.77	Peak	-----	-----
5	7311.00	47.98	54.00	-6.02	38.41	9.57	Average	-----	-----
6	7311.00	65.29	74.00	-8.71	55.72	9.57	Peak	-----	-----
7	12185.00	44.55	54.00	-9.45	30.43	14.12	Average	-----	-----
8	12185.00	58.29	74.00	-15.71	44.17	14.12	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2462
Test Mode	A1		

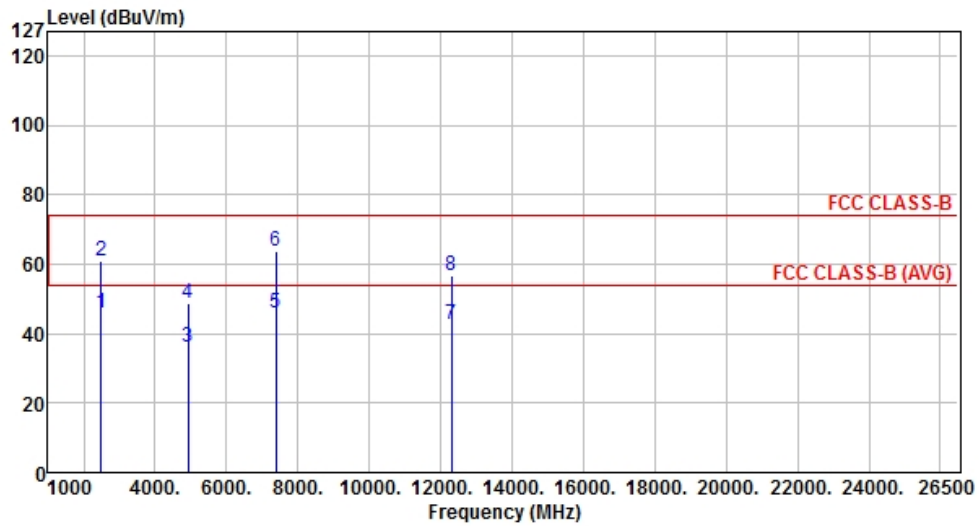


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	53.21	54.00	-0.79	55.63	-2.42	Average	-----	-----
2	2483.50	73.72	74.00	-0.28	76.14	-2.42	Peak	-----	-----
3	4924.00	35.46	54.00	-18.54	30.60	4.86	Average	-----	-----
4	4924.00	48.52	74.00	-25.48	43.66	4.86	Peak	-----	-----
5	7386.00	49.29	54.00	-4.71	39.61	9.68	Average	-----	-----
6	7386.00	69.73	74.00	-4.27	60.05	9.68	Peak	-----	-----
7	12310.00	40.88	54.00	-13.12	26.66	14.22	Average	-----	-----
8	12310.00	54.70	74.00	-19.30	40.48	14.22	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2462
Test Mode	A1		

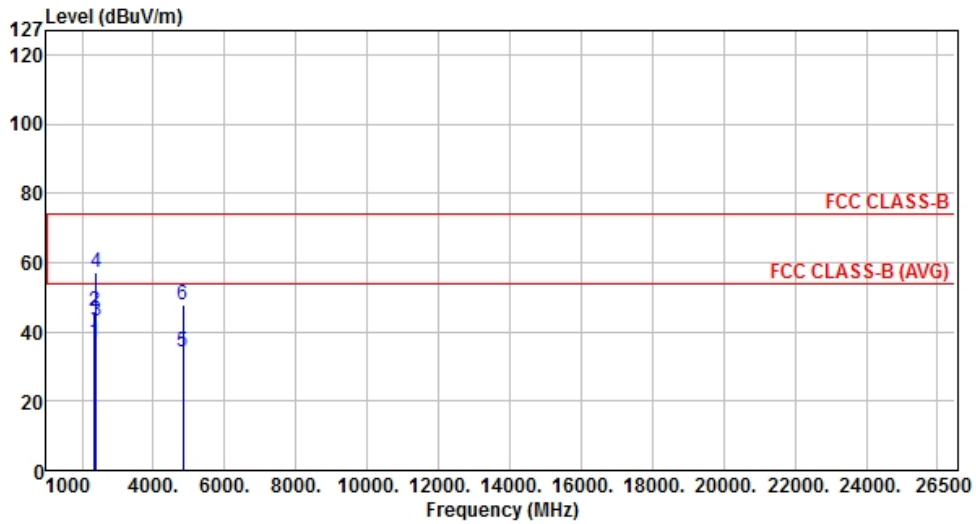


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	45.78	54.00	-8.22	48.20	-2.42	Average	-----	-----
2	2483.50	60.98	74.00	-13.02	63.40	-2.42	Peak	-----	-----
3	4924.00	36.21	54.00	-17.79	31.35	4.86	Average	-----	-----
4	4924.00	48.68	74.00	-25.32	43.82	4.86	Peak	-----	-----
5	7386.00	45.81	54.00	-8.19	36.13	9.68	Average	-----	-----
6	7386.00	63.67	74.00	-10.33	53.99	9.68	Peak	-----	-----
7	12310.00	42.61	54.00	-11.39	28.39	14.22	Average	-----	-----
8	12310.00	56.66	74.00	-17.34	42.44	14.22	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2412
Test Mode	A2		

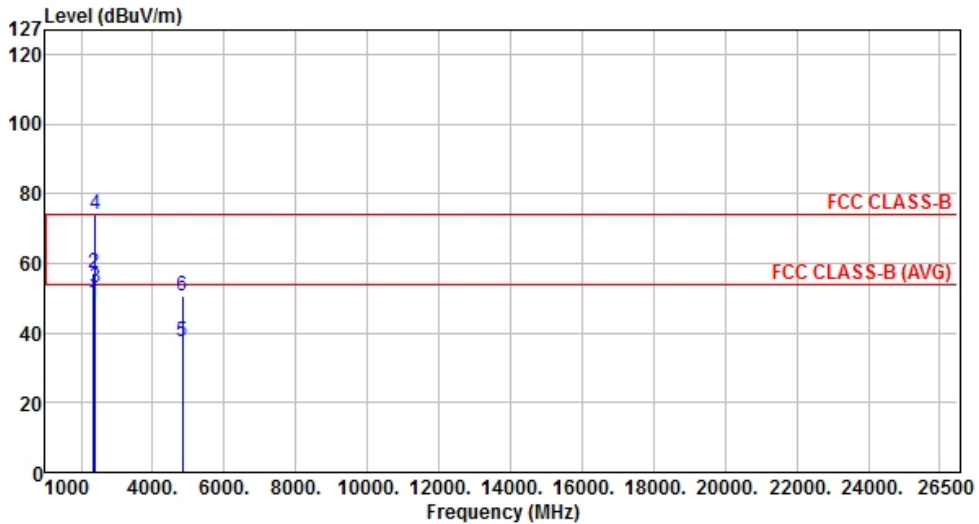


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	36.85	54.00	-17.15	39.89	-3.04	Average	-----	-----
2	2360.00	46.05	74.00	-27.95	49.09	-3.04	Peak	-----	-----
3	2390.00	43.05	54.00	-10.95	45.93	-2.88	Average	-----	-----
4	2390.00	57.23	74.00	-16.77	60.11	-2.88	Peak	-----	-----
5	4824.00	34.38	54.00	-19.62	29.69	4.69	Average	-----	-----
6	4824.00	47.85	74.00	-26.15	43.16	4.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2412
Test Mode	A2		

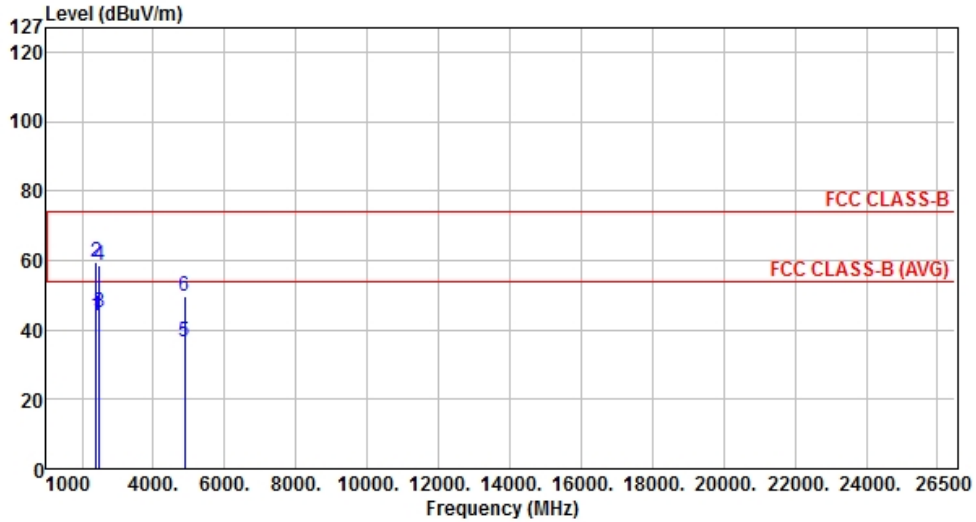


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	48.58	54.00	-5.42	51.62	-3.04	Average	-----	-----
2	2360.00	57.29	74.00	-16.71	60.33	-3.04	Peak	-----	-----
3	2390.00	52.95	54.00	-1.05	55.83	-2.88	Average	-----	-----
4	2390.00	73.89	74.00	-0.11	76.77	-2.88	Peak	-----	-----
5	4824.00	37.55	54.00	-16.45	32.86	4.69	Average	-----	-----
6	4824.00	50.76	74.00	-23.24	46.07	4.69	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2437
Test Mode	A2		

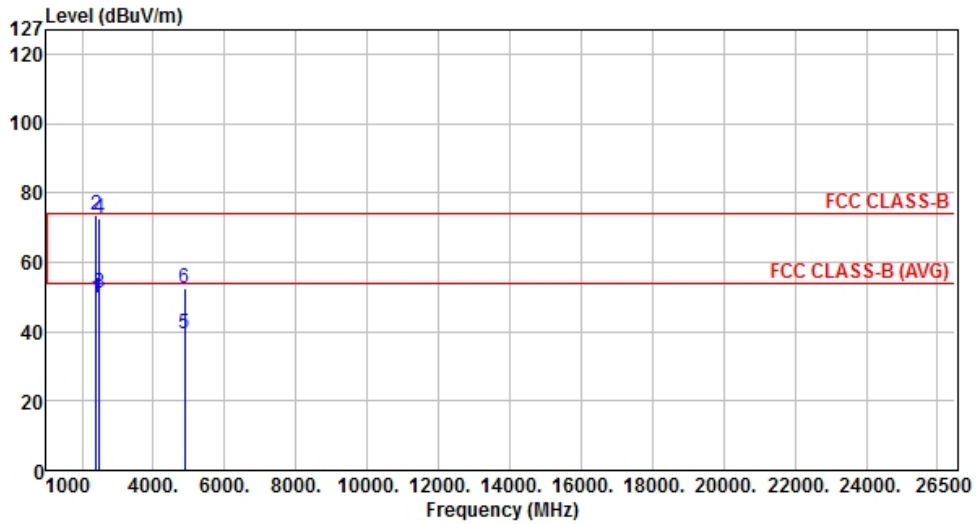


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	43.95	54.00	-10.05	46.83	-2.88	Average	-----	-----
2	2390.00	59.52	74.00	-14.48	62.40	-2.88	Peak	-----	-----
3	2483.50	45.07	54.00	-8.93	47.50	-2.43	Average	-----	-----
4	2483.50	58.77	74.00	-15.23	61.20	-2.43	Peak	-----	-----
5	4874.00	36.47	54.00	-17.53	31.70	4.77	Average	-----	-----
6	4874.00	49.57	74.00	-24.43	44.80	4.77	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2437
Test Mode	A2		

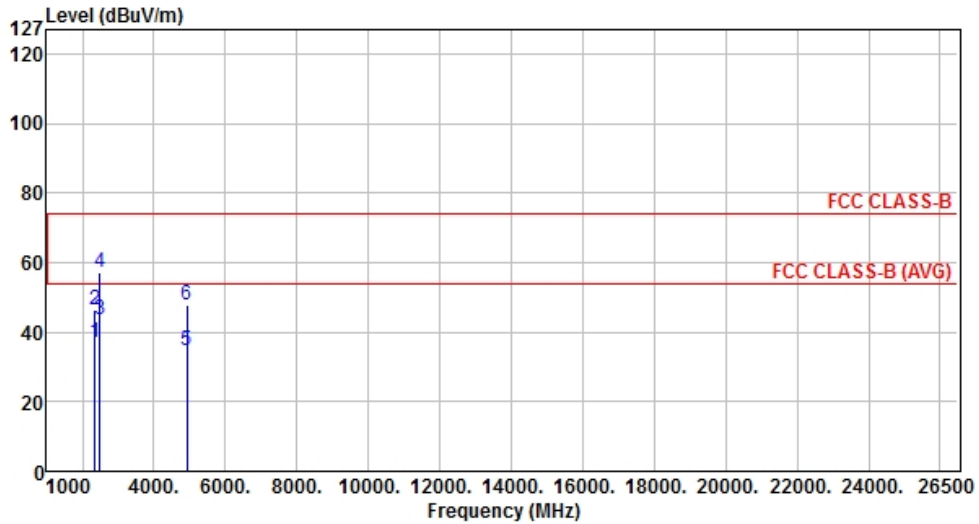


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.90	54.00	-4.10	52.78	-2.88	Average	-----	-----
2	2390.00	73.72	74.00	-0.28	76.60	-2.88	Peak	-----	-----
3	2483.50	51.10	54.00	-2.90	53.53	-2.43	Average	-----	-----
4	2483.50	72.74	74.00	-1.26	75.17	-2.43	Peak	-----	-----
5	4874.00	39.58	54.00	-14.42	34.81	4.77	Average	-----	-----
6	4874.00	52.68	74.00	-21.32	47.91	4.77	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Horizontal	Test Freq. (MHz)	2462
Test Mode	A2		

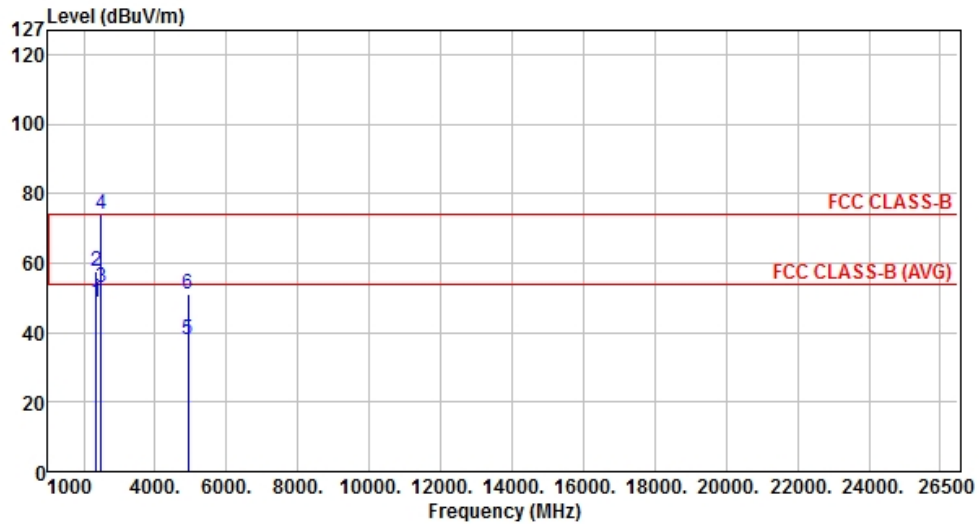


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	37.06	54.00	-16.94	40.10	-3.04	Average	-----	-----
2	2360.00	46.36	74.00	-27.64	49.40	-3.04	Peak	-----	-----
3	2483.50	43.49	54.00	-10.51	45.92	-2.43	Average	-----	-----
4	2483.50	57.12	74.00	-16.88	59.55	-2.43	Peak	-----	-----
5	4924.00	34.59	54.00	-19.41	29.73	4.86	Average	-----	-----
6	4924.00	47.96	74.00	-26.04	43.10	4.86	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



Polarization	Vertical	Test Freq. (MHz)	2462
Test Mode	A2		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	48.67	54.00	-5.33	51.71	-3.04	Average	-----	-----
2	2360.00	57.65	74.00	-16.35	60.69	-3.04	Peak	-----	-----
3	2483.50	52.73	54.00	-1.27	55.16	-2.43	Average	-----	-----
4	2483.50	73.87	74.00	-0.13	76.30	-2.43	Peak	-----	-----
5	4924.00	37.83	54.00	-16.17	32.97	4.86	Average	-----	-----
6	4924.00	51.06	74.00	-22.94	46.20	4.86	Peak	-----	-----

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
 Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.