

FCC Test Report

FCC ID : QXO-4200
Equipment : Wireless 802.11 ac/a + b/g/n Access Point
Model No. : WS-AP3805i, WS-AP3805e, WS-AP3801i,
30912, 30913
(refer to item 1.1.1 for more details)
Brand Name : Extreme Networks
Applicant : Extreme Networks, Inc.
Address : 9 Northeastern Blvd., Salem, New Hampshire,
United States, 03079
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 13, 2014
Tested Date : Jun. 13 ~ Oct. 23, 2014

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
FR482702-04AC	Rev. 01	Initial issue	Mar. 25, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.379MHz 47.27 (Margin -1.03dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2320.00MHz 53.89 (Margin -0.11dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 29.91	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

This report is issued as a duplicate report to the original ICC report no. FR482702AC. The modification is only concerned with adding multiple-listing models (30912 & 30913) for marketing purpose.

1.1.1 Product Details

The following models are provided to this EUT. **(New additional models are marked in boldface.)**

Brand Name	Model Name	Description	Product Name	Remarks
Extreme Networks	WS-AP3805i	---	Wireless 802.11 ac/a + b/g/n Access Point	Internal PIFA antenna
	30912	WS-AP3805i-FCC		
	30913	WS-AP3805-ROW		
	WS-AP3801i	---		Internal PIFA antenna
	WS-AP3805e	---		External Dipole antenna
Note: The AP3805i and AP3801i use identical hardware. The only difference is the AP3801i is software limited to prevent simultaneous operation in the 2.4 GHz and 5GHz bands.				

1.1.2 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 Peak Conducted 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.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
				2400~2483.5	5150~5250	5725~5850
1	5718A0075300	PIFA	I-Pex	3.52	---	---
2	5718A0074300	PIFA	I-Pex	3.16	---	---
3	5718A0077300	PIFA	I-Pex	---	5.40	5.23
4	5718A0076300	PIFA	I-Pex	---	4.08	5.68
5	7102A0300000	Dipole	R SMA	4.42	---	---
6	7102A0301000	Dipole	R SMA	---	3.18	2.95
7	WS-AI-DQ04360	Directional Panel	RPSMA	4	7	7
8	WS-AI-DD05120	Directional Panel	RPSMA	5	5	5

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter / 48Vdc from PoE
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1.1.5 Accessories & Support Units

Accessories & Support Units		
No.	Equipment	Description
1	Power Supply Type 1 Adapter	Brand: Powertron Electronics Corp. Model: PA1015-2I I/P: 100-240Vac, 50-60Hz, 0.4A O/P: 12Vdc, 1.25A, 15W Power line: 1.2m non-shielded with one core
2	Power Supply Type 2 With POE injector (Model: EPE-48GR) **Support unit only	Brand: Powertron Electronics Corp. Model: PA1040-480IB080 I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 48Vdc, 0.8A, 38.4W max Power line: 1.5m non-shielded with one core

1.1.6 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	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	ART2-GUI, V4_9_575_5_CS_U3		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11b	100.00%	0.00
	11g	99.30%	0.03
	HT20	99.25%	0.03
	HT40	98.52%	0.06

1.1.8 Power Setting

For internal PIFA antenna

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	23
11b	2437	22
11b	2462	21.5
11g	2412	16.5
11g	2437	18
11g	2462	16.5
HT20	2412	15.5
HT20	2437	18
HT20	2462	16
HT40	2422	12.5
HT40	2437	16
HT40	2452	13.5

For external Dipole antenna

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	22.5
11b	2437	16.5
11b	2462	15
11g	2412	15.5
11g	2437	18
11g	2462	16
HT20	2412	15
HT20	2437	17.5
HT20	2462	15
HT40	2422	12.5
HT40	2437	15.5
HT40	2452	13.5

For external Directional Panel antenna (model WS-AI-DQ04360)

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	20
11b	2437	20
11b	2462	20
11g	2412	15.5
11g	2437	18
11g	2462	15
HT20	2412	15
HT20	2437	17.5
HT20	2462	14.5
HT40	2422	12.5
HT40	2437	15.5
HT40	2452	13

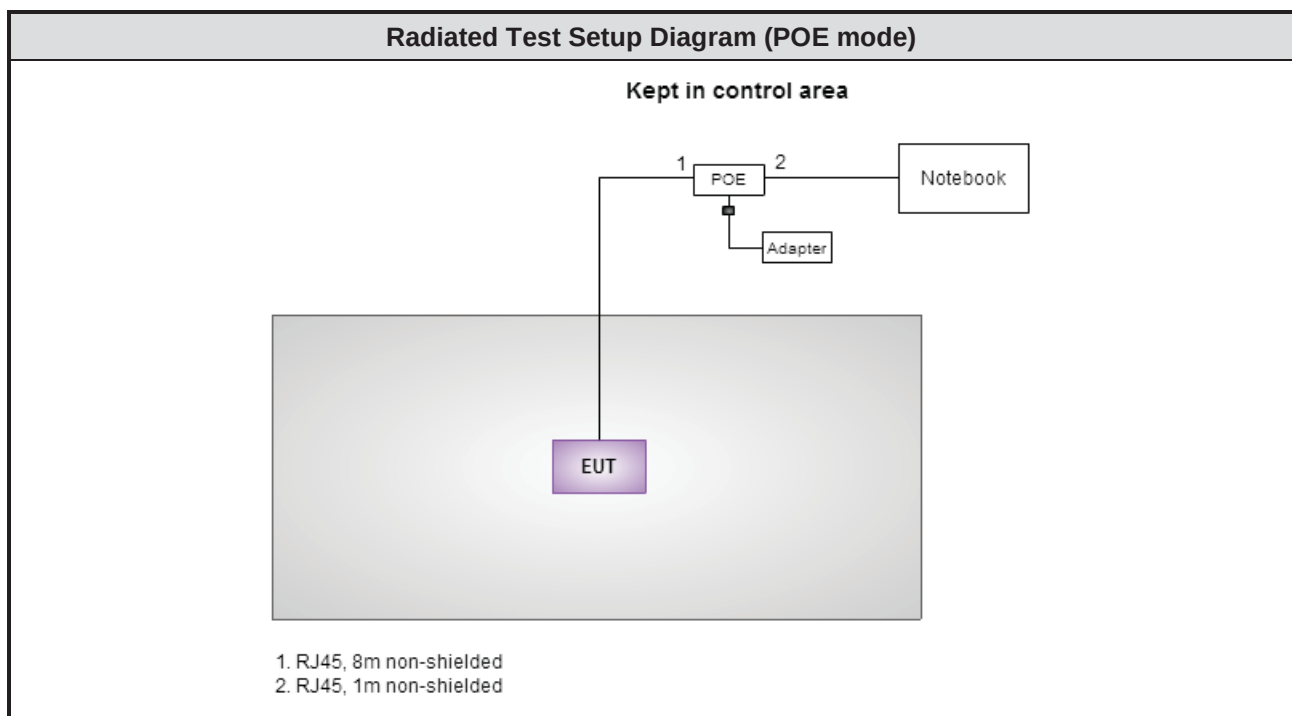
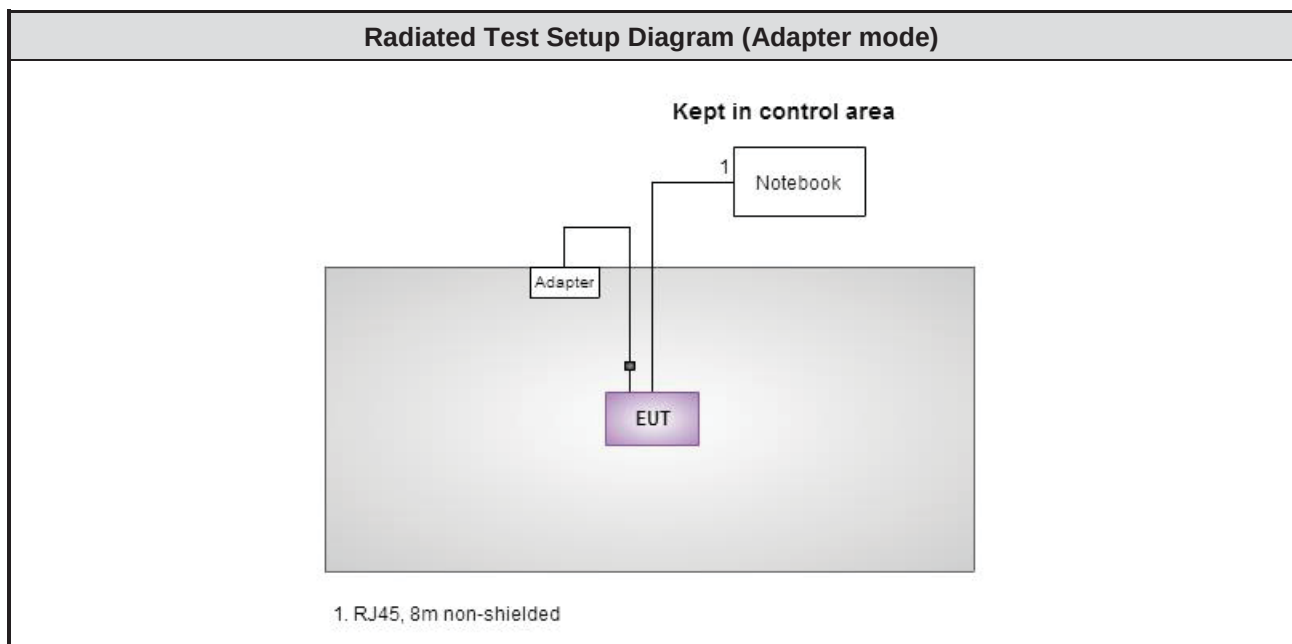
For external Directional Panel antenna (model WS-AI-DD05120)

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	19
11b	2437	19
11b	2462	18
11g	2412	14.5
11g	2437	16
11g	2462	15
HT20	2412	14
HT20	2437	16
HT20	2462	14.5
HT40	2422	11
HT40	2437	14.5
HT40	2452	13

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	DoC	RJ45, 8m non-shielded.

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	100132	Nov. 14, 2013	Nov. 13, 2014
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 23, 2014	Apr. 22, 2015
50 ohm terminal (Support Unit)	NA	50	04	Apr. 18, 2014	Apr. 17, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015
Receiver	R&S	ESR3	101658	Jan. 10, 2014	Jan. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Jan. 23, 2014	Jan. 22, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	EM	EM18G40G	060604	Oct. 17, 2013	Oct. 16, 2015
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	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
Power Meter	Anritsu	ML2495A	1218007	Oct. 31, 2013	Oct. 30, 2014
Power Sensor	Anritsu	MA2411B	1207367	Oct. 31, 2013	Oct. 30, 2014
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
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 v03r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Temperature	±0.6 °C
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.26 dB
Radiated emission > 1GHz	±4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 69%	Peter Lin
Radiated Emissions	03CH01-WS	20-25°C / 63-68%	Anderson Hong Haru Yang
RF Conducted	TH01-WS	22°C / 64%	Brad Wu

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT20	2437	MCS 0	1, 2, 3, 4, 5, 6, 7, 8
Radiated Emissions ≤1GHz	HT20	2437	MCS 0	1, 2, 3, 4, 5, 6, 7, 8
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	1, 2, 3, 4
Maximum Output Power	11g	2412 / 2437 / 2462	6 Mbps	
6dB bandwidth	HT20	2412 / 2437 / 2462	MCS 0	
Power spectral density	HT40	2422 / 2437 / 2452	MCS 0	

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. Refer to the following configurations for each worst case plane.
- The final test configurations are listed as follows:
 - Configuration 1: Internal PIFA antenna, Adapter mode, X-plane.
 - Configuration 2: External Dipole antenna, Adapter mode, Y-plane.
 - Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360), Adapter mode, Y-plane.
 - Configuration 4: External Directional Panel antenna (model WS-AI-DD05120), Adapter mode, Y-plane.
 - Configuration 5: Internal PIFA antenna, POE mode, X-plane.
 - Configuration 6: External Dipole antenna, POE mode, Y-plane.
 - Configuration 7: External Directional Panel antenna (model WS-AI-DQ04360), POE mode, Y-plane.
 - Configuration 8: External Directional Panel antenna (model WS-AI-DD05120), POE mode, Y-plane.

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

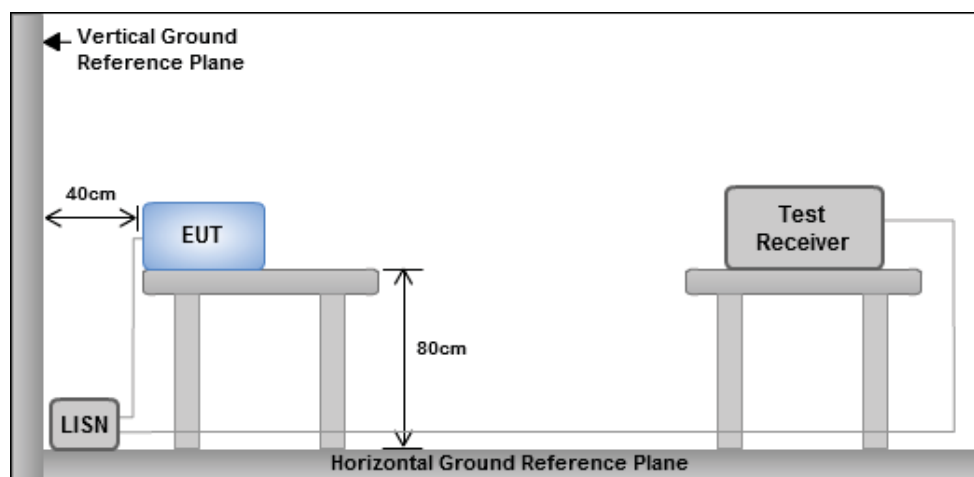
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup

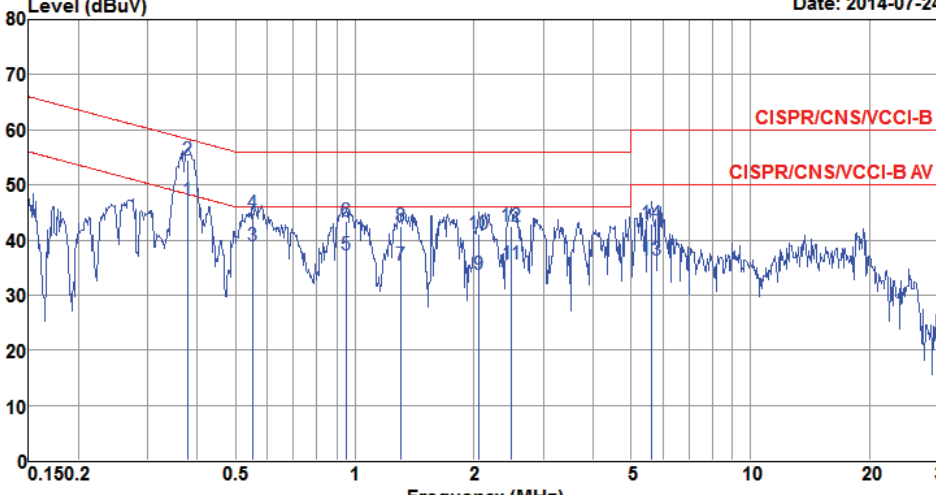


- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions (Configuration 1: Internal PIFA antenna)

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	1

Level (dBuV)



Frequency (MHz)

Date: 2014-07-24

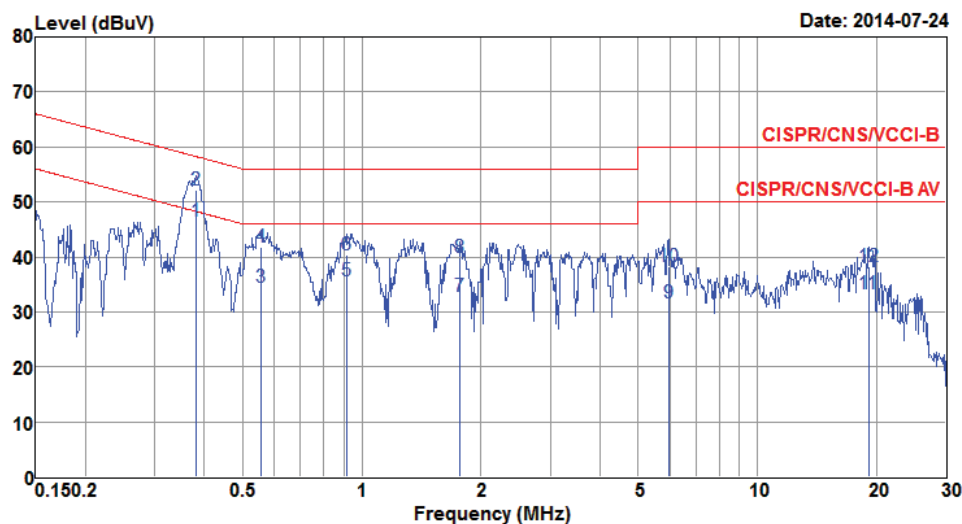
CISPR/CNS/VCCI-B

CISPR/CNS/VCCI-B AV

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.379	47.27	48.30	-1.03	46.73	0.52	0.02	Average
2	0.379	54.49	58.30	-3.81	53.95	0.52	0.02	QP
3	0.552	39.06	46.00	-6.94	38.38	0.60	0.08	Average
4	0.552	44.77	56.00	-11.23	44.09	0.60	0.08	QP
5	0.948	37.27	46.00	-8.73	36.36	0.72	0.19	Average
6	0.948	43.52	56.00	-12.48	42.61	0.72	0.19	QP
7	1.310	35.31	46.00	-10.69	34.34	0.84	0.13	Average
8	1.310	42.59	56.00	-13.41	41.62	0.84	0.13	QP
9	2.055	33.80	46.00	-12.20	32.77	1.01	0.02	Average
10	2.055	41.17	56.00	-14.83	40.14	1.01	0.02	QP
11	2.487	35.55	46.00	-10.45	34.46	1.03	0.06	Average
12	2.487	42.59	56.00	-13.41	41.50	1.03	0.06	QP
13	5.623	36.24	50.00	-13.76	34.75	1.30	0.19	Average
14	5.623	43.02	60.00	-16.98	41.53	1.30	0.19	QP

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

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	1

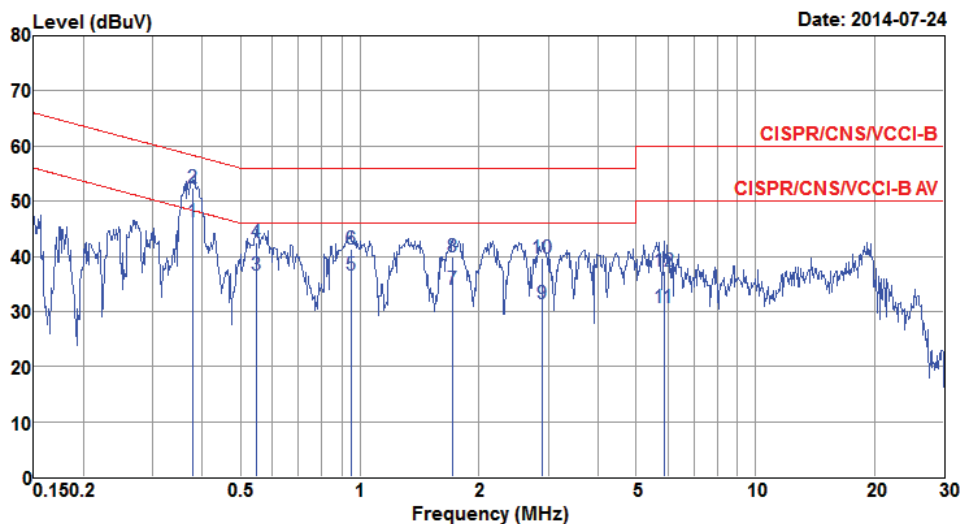


	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	dBuV	Limit	Level	factor	loss	
				dB	dBuV	dB	dB	
1*	0.381	46.60	48.25	-1.65	45.98	0.60	0.02	Average
2	0.381	52.14	58.25	-6.11	51.52	0.60	0.02	QP
3	0.558	34.57	46.00	-11.43	33.80	0.68	0.09	Average
4	0.558	41.67	56.00	-14.33	40.90	0.68	0.09	QP
5	0.914	35.59	46.00	-10.41	34.63	0.78	0.18	Average
6	0.914	40.38	56.00	-15.62	39.42	0.78	0.18	QP
7	1.772	32.74	46.00	-13.26	31.65	1.04	0.05	Average
8	1.772	39.98	56.00	-16.02	38.89	1.04	0.05	QP
9	5.961	31.64	50.00	-18.36	30.06	1.39	0.19	Average
10	5.961	38.29	60.00	-21.71	36.71	1.39	0.19	QP
11	19.122	33.17	50.00	-16.83	30.25	2.54	0.38	Average
12	19.122	38.26	60.00	-21.74	35.34	2.54	0.38	QP

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

3.1.5 Test Result of Conducted Emissions (Configuration 2: External Dipole antenna)

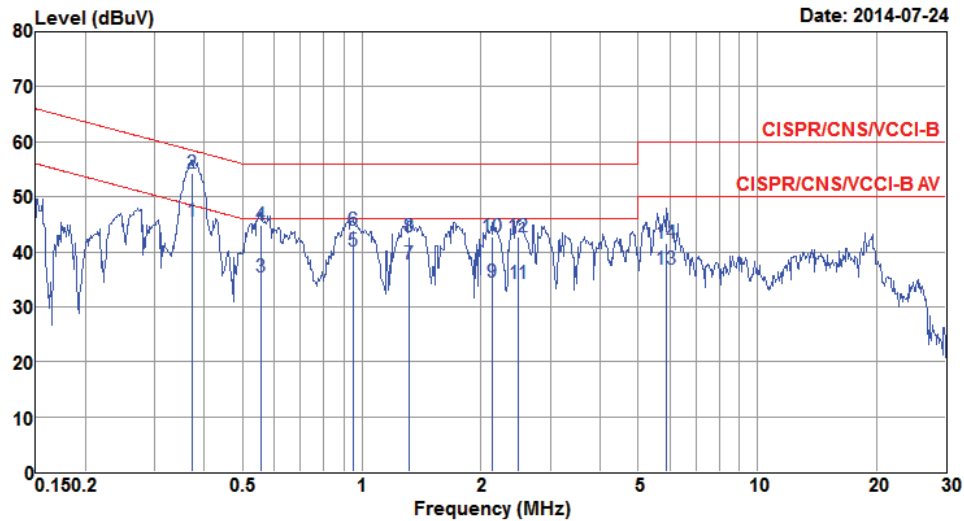
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.379	46.18	48.30	-2.12	45.64	0.52	0.02	Average
2	0.379	52.29	58.30	-6.01	51.75	0.52	0.02	QP
3	0.549	36.57	46.00	-9.43	35.89	0.60	0.08	Average
4	0.549	42.54	56.00	-13.46	41.86	0.60	0.08	QP
5	0.948	36.64	46.00	-9.36	35.73	0.72	0.19	Average
6	0.948	41.36	56.00	-14.64	40.45	0.72	0.19	QP
7	1.716	33.95	46.00	-12.05	32.94	0.95	0.06	Average
8	1.716	39.91	56.00	-16.09	38.90	0.95	0.06	QP
9	2.900	31.38	46.00	-14.62	30.25	1.04	0.09	Average
10	2.900	39.62	56.00	-16.38	38.49	1.04	0.09	QP
11	5.867	30.57	50.00	-19.43	29.05	1.33	0.19	Average
12	5.867	37.24	60.00	-22.76	35.72	1.33	0.19	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	2

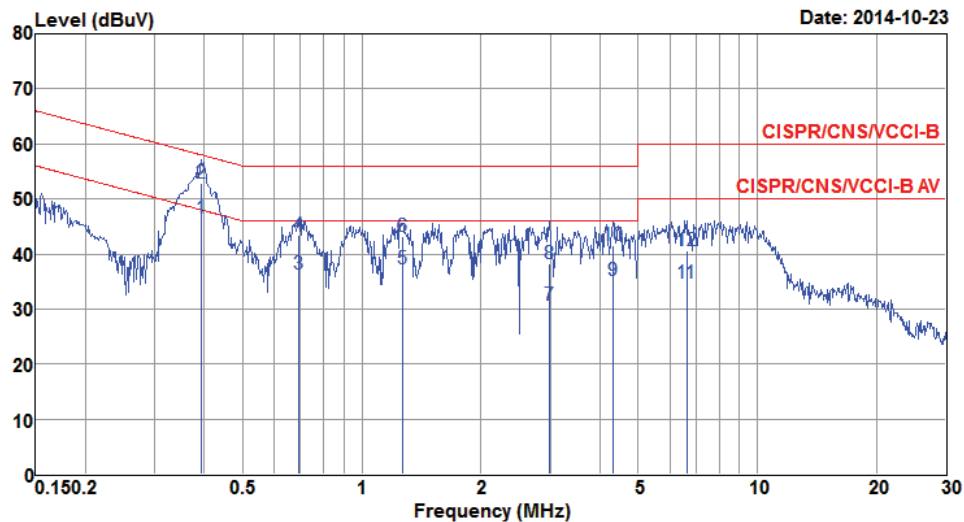


	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1*	0.373	45.54	48.43	-2.89	44.92	0.60	0.02	Average
2	0.373	54.26	58.43	-4.17	53.64	0.60	0.02	QP
3	0.555	35.47	46.00	-10.53	34.71	0.68	0.08	Average
4	0.555	44.93	56.00	-11.07	44.17	0.68	0.08	QP
5	0.953	40.20	46.00	-5.80	39.22	0.79	0.19	Average
6	0.953	43.81	56.00	-12.19	42.83	0.79	0.19	QP
7	1.317	37.65	46.00	-8.35	36.60	0.92	0.13	Average
8	1.317	42.77	56.00	-13.23	41.72	0.92	0.13	QP
9	2.133	34.41	46.00	-11.59	33.29	1.09	0.03	Average
10	2.133	42.81	56.00	-13.19	41.69	1.09	0.03	QP
11	2.487	34.13	46.00	-11.87	32.97	1.10	0.06	Average
12	2.487	42.64	56.00	-13.36	41.48	1.10	0.06	QP
13	5.898	36.93	50.00	-13.07	35.36	1.38	0.19	Average
14	5.898	41.65	60.00	-18.35	40.08	1.38	0.19	QP

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

3.1.6 Test Result of Conducted Emissions (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

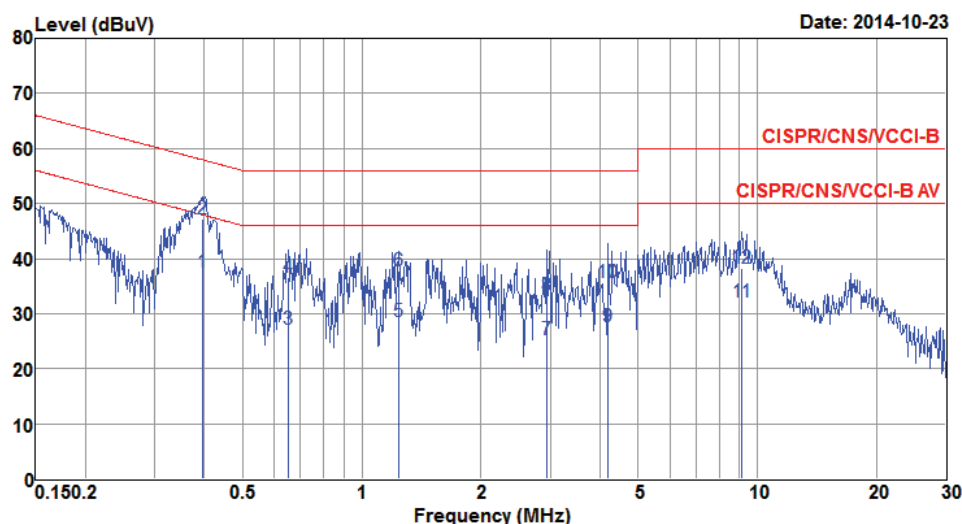
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	3



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.391	46.53	48.03	-1.50	45.98	0.53	0.02	Average
2	0.391	52.95	58.03	-5.08	52.40	0.53	0.02	QP
3	0.694	36.46	46.00	-9.54	35.79	0.65	0.02	Average
4	0.694	43.48	56.00	-12.52	42.81	0.65	0.02	QP
5	1.269	37.36	46.00	-8.64	36.51	0.83	0.02	Average
6	1.269	43.13	56.00	-12.87	42.28	0.83	0.02	QP
7	2.978	30.63	46.00	-15.37	29.50	1.04	0.09	Average
8	2.978	38.20	56.00	-17.80	37.07	1.04	0.09	QP
9	4.315	35.21	46.00	-10.79	33.93	1.12	0.16	Average
10	4.315	41.54	56.00	-14.46	40.26	1.12	0.16	QP
11	6.627	34.69	50.00	-15.31	33.07	1.42	0.20	Average
12	6.627	40.67	60.00	-19.33	39.05	1.42	0.20	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	3

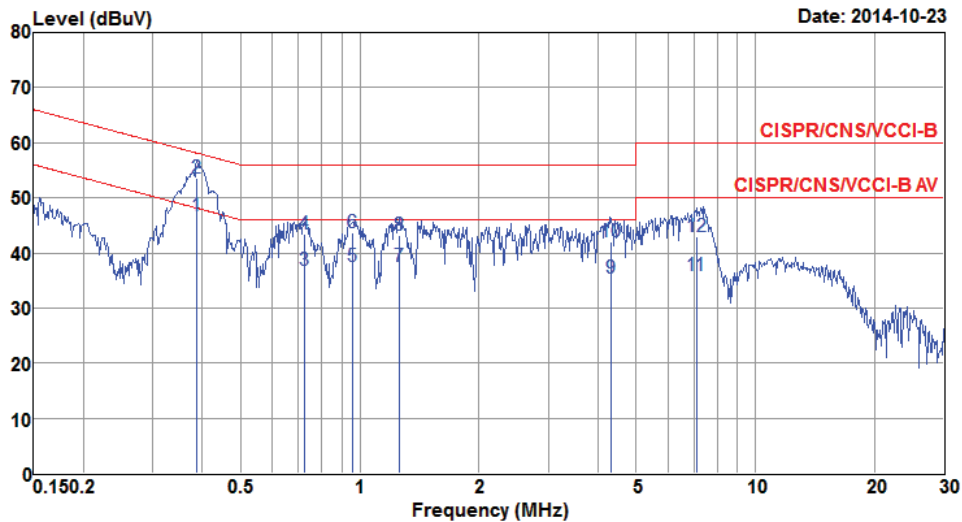


	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1*	0.396	37.65	47.95	-10.30	37.02	0.61	0.02	Average
2	0.396	47.26	57.95	-10.69	46.63	0.61	0.02	QP
3	0.651	27.23	46.00	-18.77	26.50	0.71	0.02	Average
4	0.651	36.52	56.00	-19.48	35.79	0.71	0.02	QP
5	1.236	28.52	46.00	-17.48	27.61	0.89	0.02	Average
6	1.236	37.66	56.00	-18.34	36.75	0.89	0.02	QP
7	2.931	25.17	46.00	-20.83	23.97	1.11	0.09	Average
8	2.931	33.30	56.00	-22.70	32.10	1.11	0.09	QP
9	4.202	27.63	46.00	-18.37	26.31	1.16	0.16	Average
10	4.202	35.63	56.00	-20.37	34.31	1.16	0.16	QP
11	9.156	32.11	50.00	-17.89	30.21	1.66	0.24	Average
12	9.156	38.16	60.00	-21.84	36.26	1.66	0.24	QP

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

3.1.7 Test Result of Conducted Emissions (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

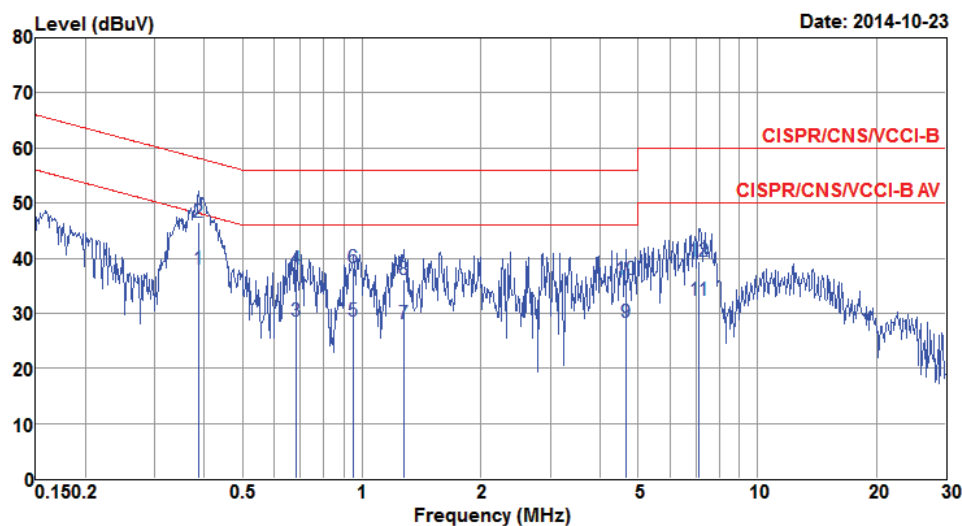
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	4



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.387	46.67	48.12	-1.45	46.13	0.52	0.02	Average
2	0.387	53.61	58.12	-4.51	53.07	0.52	0.02	QP
3	0.724	36.89	46.00	-9.11	36.21	0.66	0.02	Average
4	0.724	43.40	56.00	-12.60	42.72	0.66	0.02	QP
5	0.959	37.48	46.00	-8.52	36.74	0.72	0.02	Average
6	0.959	43.70	56.00	-12.30	42.96	0.72	0.02	QP
7	1.255	37.47	46.00	-8.53	36.63	0.82	0.02	Average
8	1.255	43.13	56.00	-12.87	42.29	0.82	0.02	QP
9	4.315	35.46	46.00	-10.54	34.18	1.12	0.16	Average
10	4.315	41.96	56.00	-14.04	40.68	1.12	0.16	QP
11	7.100	35.95	50.00	-14.05	34.28	1.46	0.21	Average
12	7.100	43.03	60.00	-16.97	41.36	1.46	0.21	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	4

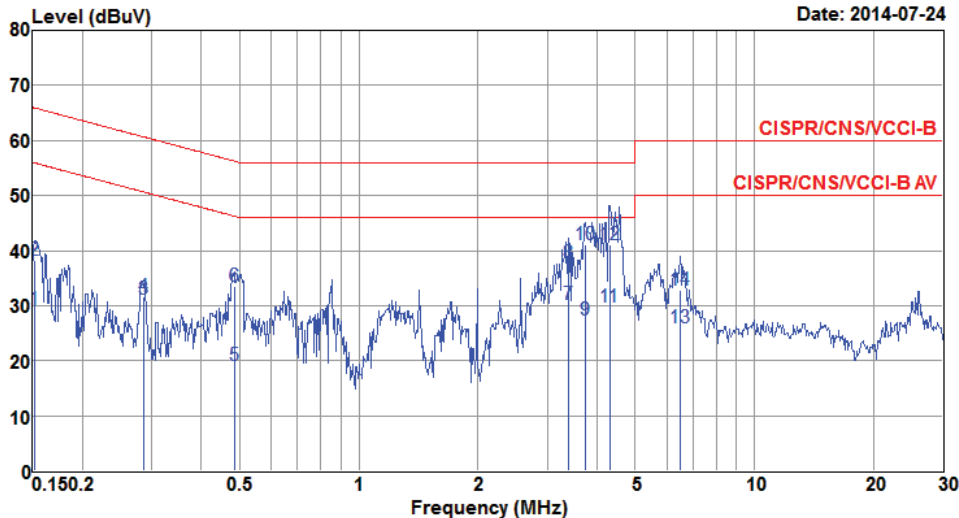


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.387	37.98	48.12	-10.14	37.35	0.61	0.02	Average
2	0.387	46.51	58.12	-11.61	45.88	0.61	0.02	QP
3	0.683	28.59	46.00	-17.41	27.85	0.72	0.02	Average
4	0.683	38.09	56.00	-17.91	37.35	0.72	0.02	QP
5	0.953	28.61	46.00	-17.39	27.80	0.79	0.02	Average
6	0.953	38.21	56.00	-17.79	37.40	0.79	0.02	QP
7	1.280	28.03	46.00	-17.97	27.11	0.90	0.02	Average
8	1.280	36.21	56.00	-19.79	35.29	0.90	0.02	QP
9	4.672	28.29	46.00	-17.71	26.89	1.23	0.17	Average
10	4.672	36.09	56.00	-19.91	34.69	1.23	0.17	QP
11	7.137	32.33	50.00	-17.67	30.62	1.50	0.21	Average
12	7.137	39.48	60.00	-20.52	37.77	1.50	0.21	QP

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

3.1.8 Test Result of Conducted Emissions (Configuration 5: Internal PIFA antenna)

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	5

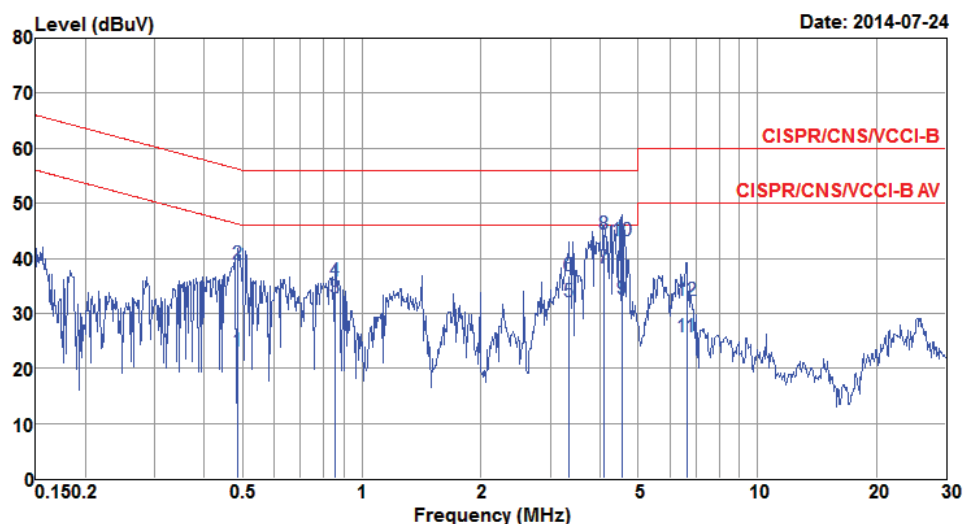


Date: 2014-07-24

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.152	29.39	55.91	-26.52	28.96	0.41	0.02	Average
2	0.152	38.30	65.91	-27.61	37.87	0.41	0.02	QP
3	0.286	31.27	50.63	-19.36	30.77	0.48	0.02	Average
4	0.286	31.73	60.63	-28.90	31.23	0.48	0.02	QP
5	0.484	19.21	46.27	-27.06	18.58	0.57	0.06	Average
6	0.484	33.51	56.27	-22.76	32.88	0.57	0.06	QP
7	3.381	30.21	46.00	-15.79	29.03	1.06	0.12	Average
8	3.381	37.86	56.00	-18.14	36.68	1.06	0.12	QP
9	3.740	27.38	46.00	-18.62	26.18	1.06	0.14	Average
10*	3.740	41.04	56.00	-14.96	39.84	1.06	0.14	QP
11	4.315	29.63	46.00	-16.37	28.35	1.12	0.16	Average
12	4.315	41.02	56.00	-14.98	39.74	1.12	0.16	QP
13	6.488	26.07	50.00	-23.93	24.47	1.40	0.20	Average
14	6.488	32.91	60.00	-27.09	31.31	1.40	0.20	QP

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

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	5

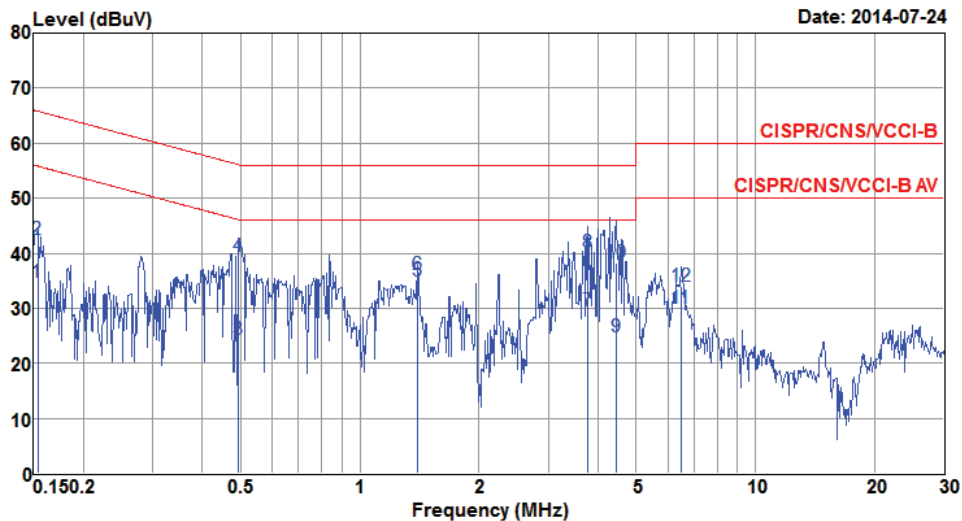


	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	Remark
1	0.486	23.12	46.23	-23.11	22.41	0.65	0.06	Average
2	0.486	39.00	56.23	-17.23	38.29	0.65	0.06	QP
3	0.853	32.79	46.00	-13.21	31.85	0.77	0.17	Average
4	0.853	35.86	56.00	-20.14	34.92	0.77	0.17	QP
5	3.346	32.09	46.00	-13.91	30.85	1.12	0.12	Average
6	3.346	36.86	56.00	-19.14	35.62	1.12	0.12	QP
7*	4.092	38.23	46.00	-7.77	36.94	1.14	0.15	Average
8	4.092	44.39	56.00	-11.61	43.10	1.14	0.15	QP
9	4.549	32.62	46.00	-13.38	31.25	1.21	0.16	Average
10	4.549	43.27	56.00	-12.73	41.90	1.21	0.16	QP
11	6.627	25.76	50.00	-24.24	24.11	1.45	0.20	Average
12	6.627	32.24	60.00	-27.76	30.59	1.45	0.20	QP

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

3.1.9 Test Result of Conducted Emissions (Configuration 6: External Dipole antenna)

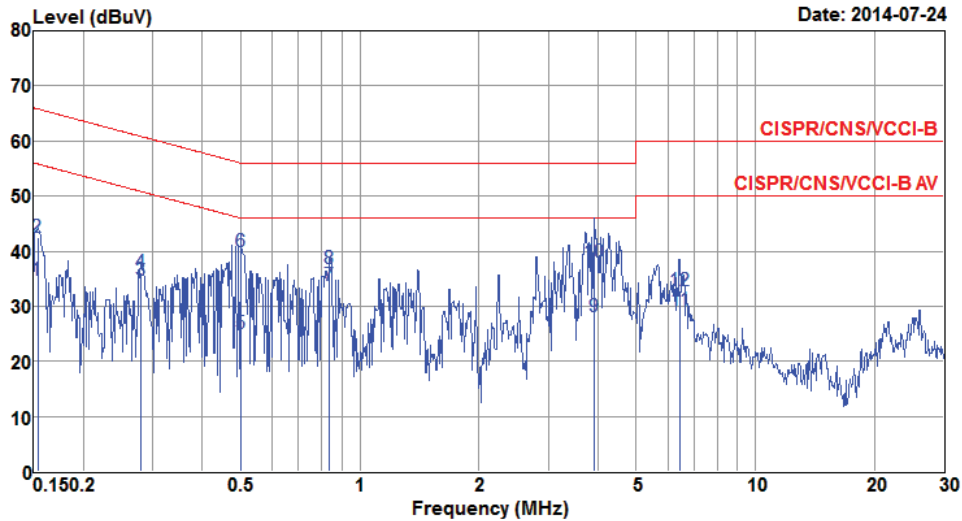
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	6



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	34.67	55.82	-21.15	34.24	0.41	0.02	Average
2	0.153	42.42	65.82	-23.40	41.99	0.41	0.02	QP
3	0.494	24.24	46.10	-21.86	23.60	0.58	0.06	Average
4	0.494	39.54	56.10	-16.56	38.90	0.58	0.06	QP
5*	1.403	34.88	46.00	-11.12	33.90	0.87	0.11	Average
6	1.403	36.01	56.00	-19.99	35.03	0.87	0.11	QP
7	3.759	29.40	46.00	-16.60	28.20	1.06	0.14	Average
8	3.759	40.04	56.00	-15.96	38.84	1.06	0.14	QP
9	4.454	24.75	46.00	-21.25	23.45	1.14	0.16	Average
10	4.454	38.19	56.00	-17.81	36.89	1.14	0.16	QP
11	6.488	30.02	50.00	-19.98	28.42	1.40	0.20	Average
12	6.488	34.09	60.00	-25.91	32.49	1.40	0.20	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	6

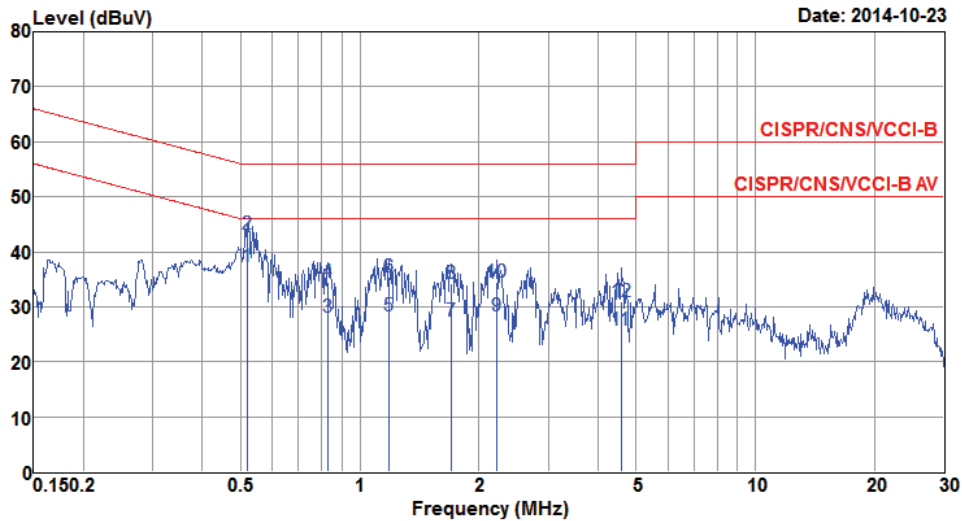


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	34.75	55.82	-21.07	34.24	0.49	0.02	Average
2	0.153	42.46	65.82	-23.36	41.95	0.49	0.02	QP
3	0.279	34.69	50.85	-16.16	34.12	0.56	0.01	Average
4	0.279	36.10	60.85	-24.75	35.53	0.56	0.01	QP
5	0.499	25.12	46.01	-20.89	24.40	0.66	0.06	Average
6	0.499	39.88	56.01	-16.13	39.16	0.66	0.06	QP
7*	0.839	33.82	46.00	-12.18	32.90	0.76	0.16	Average
8	0.839	36.78	56.00	-19.22	35.86	0.76	0.16	QP
9	3.922	28.19	46.00	-17.81	26.91	1.13	0.15	Average
10	3.922	37.96	56.00	-18.04	36.68	1.13	0.15	QP
11	6.454	29.19	50.00	-20.81	27.55	1.44	0.20	Average
12	6.454	32.86	60.00	-27.14	31.22	1.44	0.20	QP

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

3.1.10 Test Result of Conducted Emissions (Configuration 7: External Directional Panel antenna (model WS-AI-DQ04360))

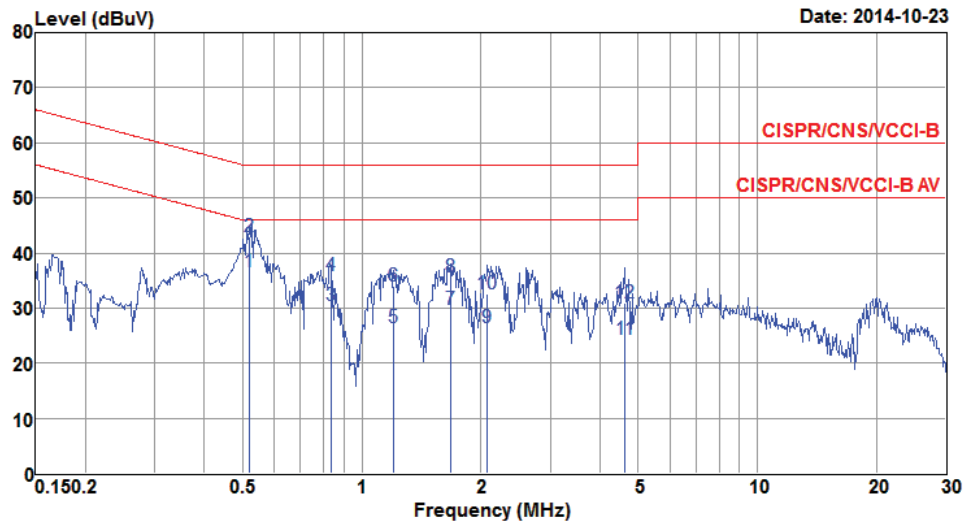
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	7



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.518	37.20	46.00	-8.80	36.59	0.59	0.02	Average
2	0.518	43.27	56.00	-12.73	42.66	0.59	0.02	QP
3	0.830	28.14	46.00	-17.86	27.43	0.69	0.02	Average
4	0.830	34.42	56.00	-21.58	33.71	0.69	0.02	QP
5	1.184	28.22	46.00	-17.78	27.40	0.80	0.02	Average
6	1.184	35.49	56.00	-20.51	34.67	0.80	0.02	QP
7	1.698	27.43	46.00	-18.57	26.47	0.94	0.02	Average
8	1.698	34.19	56.00	-21.81	33.23	0.94	0.02	QP
9	2.225	28.43	46.00	-17.57	27.37	1.02	0.04	Average
10	2.225	34.40	56.00	-21.60	33.34	1.02	0.04	QP
11	4.574	25.82	46.00	-20.18	24.50	1.16	0.16	Average
12	4.574	31.02	56.00	-24.98	29.70	1.16	0.16	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	7

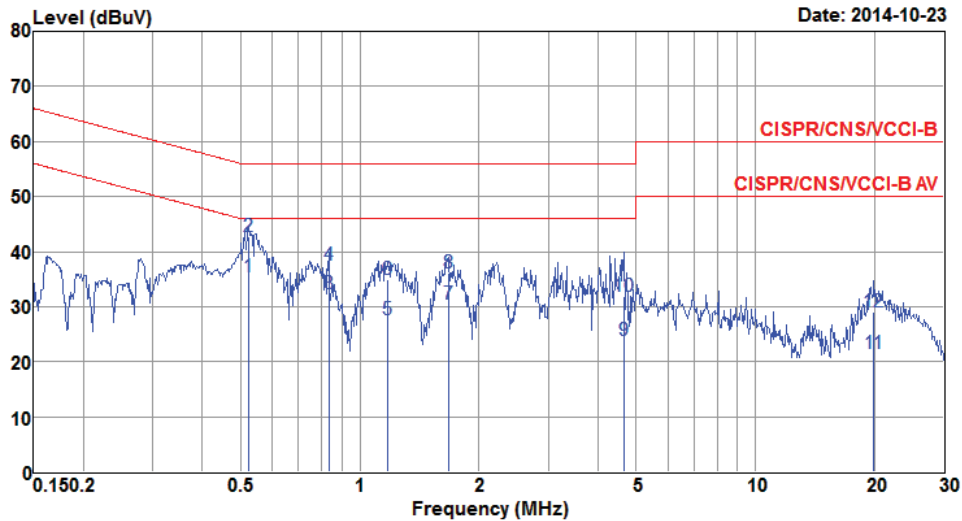


	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1*	0.521	36.47	46.00	-9.53	35.79	0.66	0.02	Average
2	0.521	42.86	56.00	-13.14	42.18	0.66	0.02	QP
3	0.835	30.55	46.00	-15.45	29.77	0.76	0.02	Average
4	0.835	35.98	56.00	-20.02	35.20	0.76	0.02	QP
5	1.203	26.36	46.00	-19.64	25.46	0.88	0.02	Average
6	1.203	33.98	56.00	-22.02	33.08	0.88	0.02	QP
7	1.671	29.81	46.00	-16.19	28.78	1.01	0.02	Average
8	1.671	35.73	56.00	-20.27	34.70	1.01	0.02	QP
9	2.077	26.35	46.00	-19.65	25.23	1.09	0.03	Average
10	2.077	32.61	56.00	-23.39	31.49	1.09	0.03	QP
11	4.622	24.28	46.00	-21.72	22.89	1.22	0.17	Average
12	4.622	30.97	56.00	-25.03	29.58	1.22	0.17	QP

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

3.1.11 Test Result of Conducted Emissions (Configuration 8: External Directional Panel antenna (model WS-AI-DD05120))

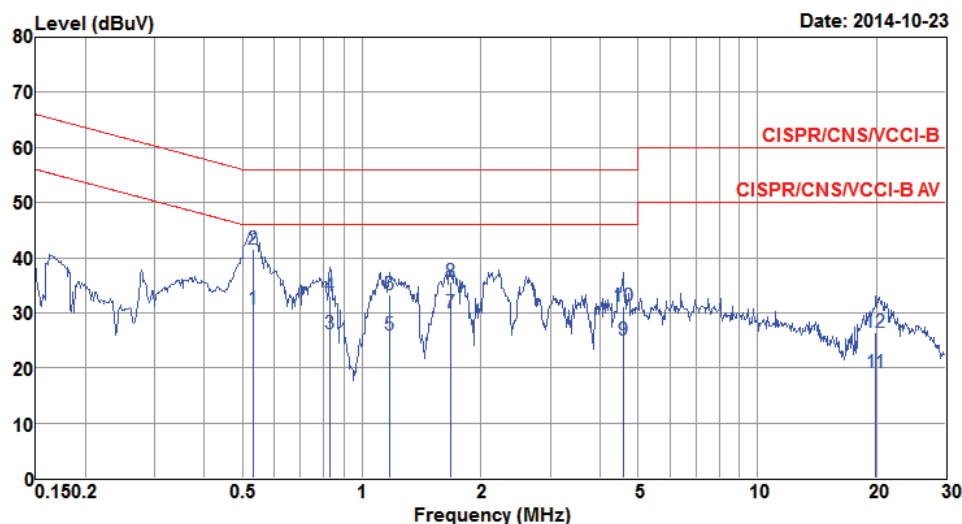
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Configuration	8



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.524	35.33	46.00	-10.67	34.72	0.59	0.02	Average
2	0.524	42.67	56.00	-13.33	42.06	0.59	0.02	QP
3	0.835	32.44	46.00	-13.56	31.73	0.69	0.02	Average
4	0.835	37.61	56.00	-18.39	36.90	0.69	0.02	QP
5	1.178	27.69	46.00	-18.31	26.87	0.80	0.02	Average
6	1.178	34.96	56.00	-21.04	34.14	0.80	0.02	QP
7	1.671	30.42	46.00	-15.58	29.46	0.94	0.02	Average
8	1.671	36.16	56.00	-19.84	35.20	0.94	0.02	QP
9	4.672	23.88	46.00	-22.12	22.53	1.18	0.17	Average
10	4.672	31.79	56.00	-24.21	30.44	1.18	0.17	QP
11	19.950	21.48	50.00	-28.52	18.99	2.09	0.40	Average
12	19.950	29.12	60.00	-30.88	26.63	2.09	0.40	QP

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

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Neutral	Configuration	8



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	
1	0.532	30.80	46.00	-15.20	30.11	0.67	0.02	Average
2*	0.532	41.49	56.00	-14.51	40.80	0.67	0.02	QP
3	0.830	26.29	46.00	-19.71	25.51	0.76	0.02	Average
4	0.830	32.98	56.00	-23.02	32.20	0.76	0.02	QP
5	1.178	25.97	46.00	-20.03	25.08	0.87	0.02	Average
6	1.178	33.30	56.00	-22.70	32.41	0.87	0.02	QP
7	1.671	30.02	46.00	-15.98	28.99	1.01	0.02	Average
8	1.671	35.75	56.00	-20.25	34.72	1.01	0.02	QP
9	4.574	25.14	46.00	-20.86	23.77	1.21	0.16	Average
10	4.574	31.27	56.00	-24.73	29.90	1.21	0.16	QP
11	19.950	19.01	50.00	-30.99	16.01	2.60	0.40	Average
12	19.950	26.41	60.00	-33.59	23.41	2.60	0.40	QP

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

3.2 6dB and Occupied Bandwidth

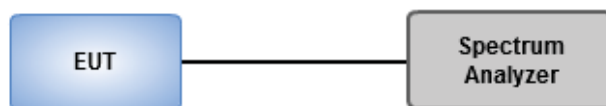
3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

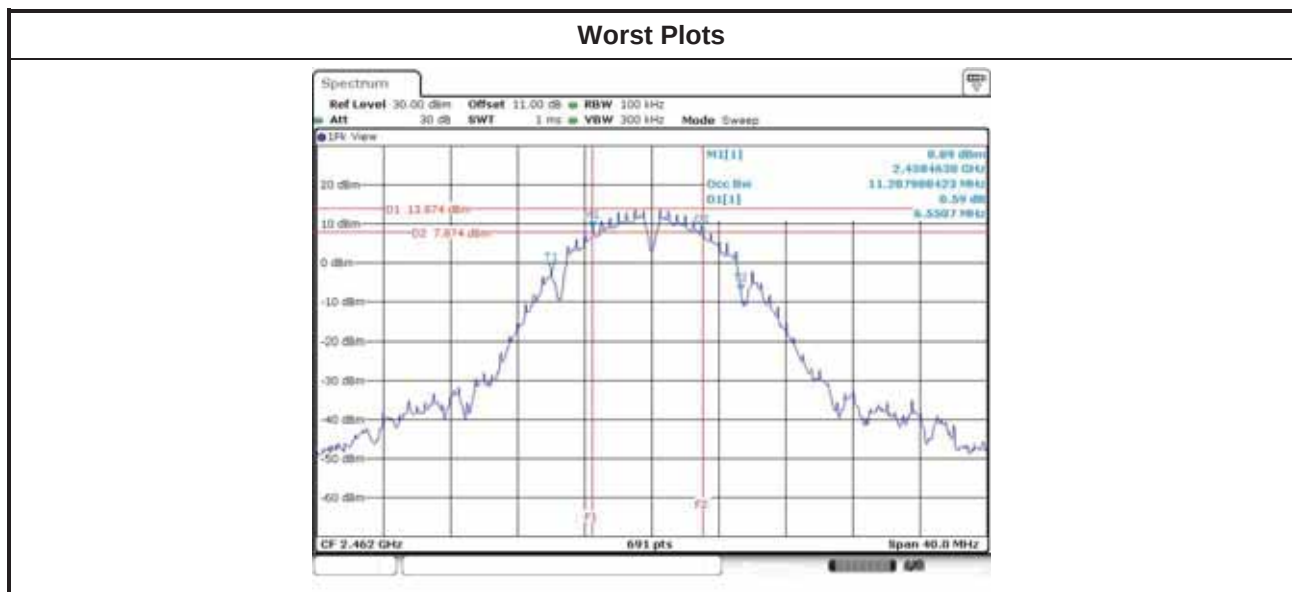
1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points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

3.2.3 Test Setup



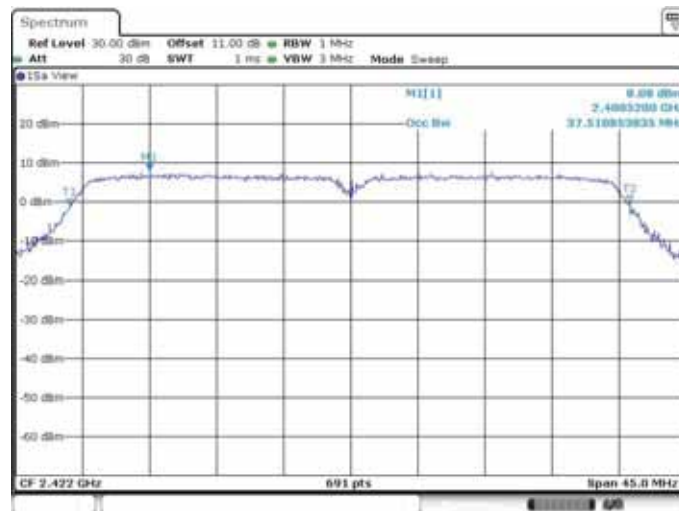
3.2.4 Test Result of 6dB and Occupied Bandwidth (Configuration 1: Internal PIFA antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	2	2412	7.07	7.07	---	---	500
11b	2	2437	7.07	7.07	---	---	500
11b	2	2462	7.54	6.55	---	---	500
11g	2	2412	16.35	16.35	---	---	500
11g	2	2437	16.35	16.35	---	---	500
11g	2	2462	16.35	16.35	---	---	500
HT20	2	2412	17.62	17.57	---	---	500
HT20	2	2437	17.62	17.62	---	---	500
HT20	2	2462	17.62	17.62	---	---	500
HT40	2	2422	36.41	35.71	---	---	500
HT40	2	2437	36.41	35.83	---	---	500
HT40	2	2452	36.29	36.06	---	---	500



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	2	2412	12.08	12.08	---	---
11b	2	2437	12.16	11.79	---	---
11b	2	2462	12.01	11.98	---	---
11g	2	2412	17.15	16.90	---	---
11g	2	2437	17.19	16.90	---	---
11g	2	2462	17.19	16.90	---	---
HT20	2	2412	18.23	18.13	---	---
HT20	2	2437	18.20	18.02	---	---
HT20	2	2462	18.20	17.98	---	---
HT40	2	2422	37.51	37.12	---	---
HT40	2	2437	37.45	37.05	---	---
HT40	2	2452	37.38	37.38	---	---

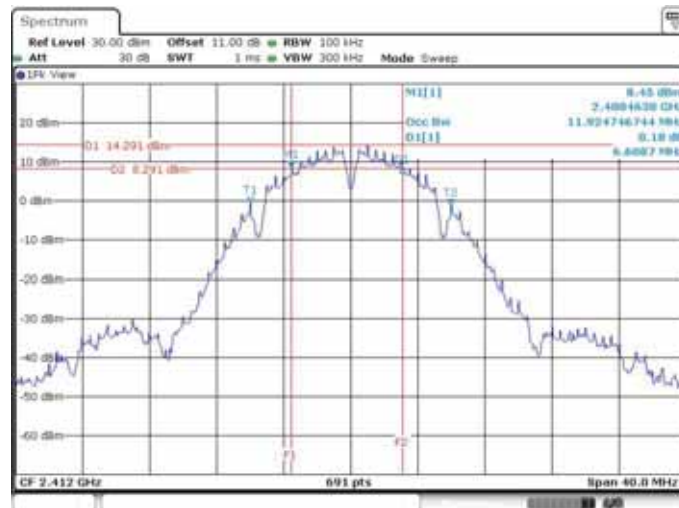
Worst Plots



3.2.5 Test Result of 6dB and Occupied Bandwidth (Configuration 2: External Dipole antenna)

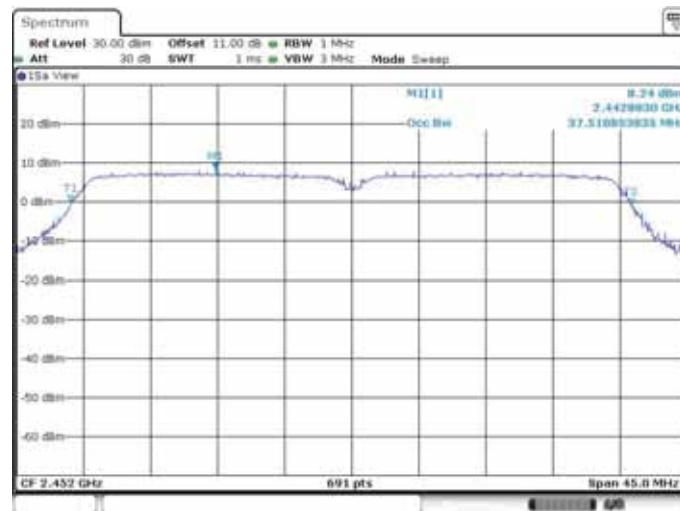
Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	2	2412	6.61	7.07	---	---	500
11b	2	2437	6.61	6.61	---	---	500
11b	2	2462	7.07	7.07	---	---	500
11g	2	2412	16.35	16.35	---	---	500
11g	2	2437	16.35	16.35	---	---	500
11g	2	2462	16.35	16.35	---	---	500
HT20	2	2412	17.62	17.62	---	---	500
HT20	2	2437	17.62	17.57	---	---	500
HT20	2	2462	17.62	17.57	---	---	500
HT40	2	2422	36.41	35.94	---	---	500
HT40	2	2437	36.17	36.41	---	---	500
HT40	2	2452	36.41	36.29	---	---	500

Worst Plots



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	2	2412	11.87	11.79	---	---
11b	2	2437	11.61	11.51	---	---
11b	2	2462	11.76	11.83	---	---
11g	2	2412	17.08	16.86	---	---
11g	2	2437	17.15	16.90	---	---
11g	2	2462	17.08	16.86	---	---
HT20	2	2412	18.16	18.02	---	---
HT20	2	2437	18.20	18.02	---	---
HT20	2	2462	18.20	18.02	---	---
HT40	2	2422	37.38	37.19	---	---
HT40	2	2437	37.38	37.12	---	---
HT40	2	2452	37.51	37.12	---	---

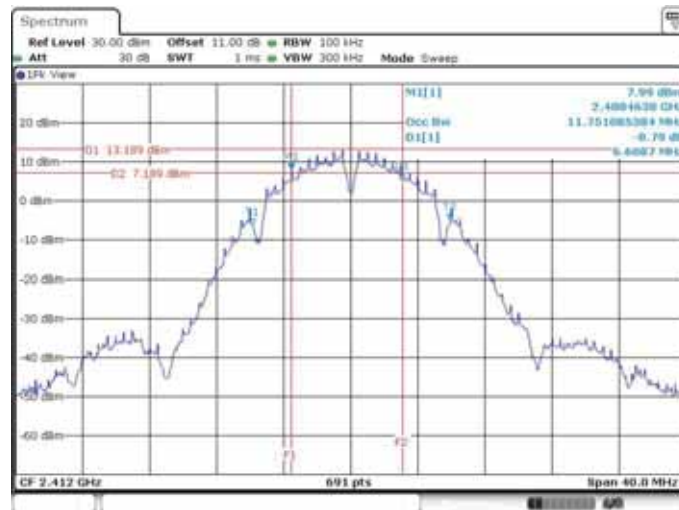
Worst Plots



3.2.6 Test Result of 6dB and Occupied Bandwidth (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

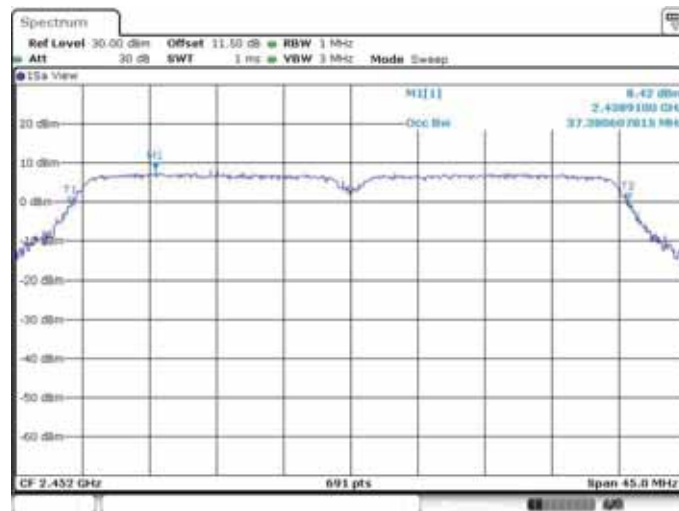
Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	2	2412	6.61	7.07	---	---	500
11b	2	2437	7.07	7.07	---	---	500
11b	2	2462	7.01	7.07	---	---	500
11g	2	2412	16.35	16.35	---	---	500
11g	2	2437	16.35	16.35	---	---	500
11g	2	2462	16.35	16.35	---	---	500
HT20	2	2412	17.62	17.62	---	---	500
HT20	2	2437	17.62	17.57	---	---	500
HT20	2	2462	17.62	17.51	---	---	500
HT40	2	2422	36.41	35.94	---	---	500
HT40	2	2437	36.17	36.41	---	---	500
HT40	2	2452	36.29	35.94	---	---	500

Worst Plots



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	2	2412	11.47	11.40	---	---
11b	2	2437	11.47	11.47	---	---
11b	2	2462	11.58	11.40	---	---
11g	2	2412	17.08	16.86	---	---
11g	2	2437	17.15	16.90	---	---
11g	2	2462	17.00	16.79	---	---
HT20	2	2412	18.16	18.02	---	---
HT20	2	2437	18.20	18.02	---	---
HT20	2	2462	18.13	18.02	---	---
HT40	2	2422	37.38	37.19	---	---
HT40	2	2437	37.38	37.12	---	---
HT40	2	2452	37.38	37.12	---	---

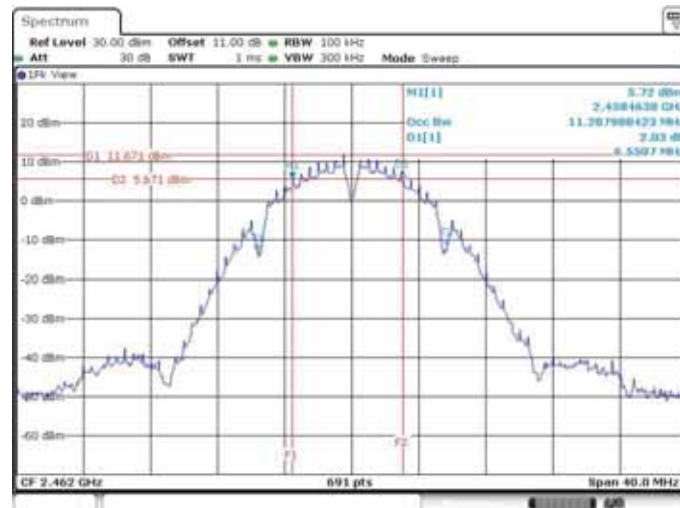
Worst Plots



3.2.7 Test Result of 6dB and Occupied Bandwidth (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

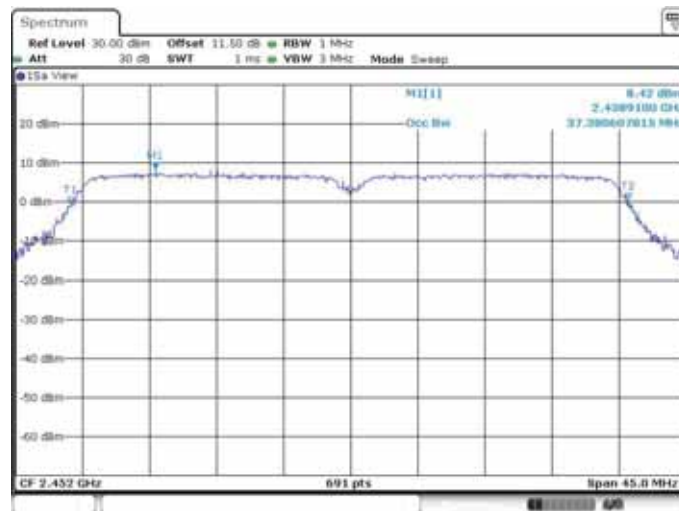
Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	2	2412	7.07	7.07	---	---	500
11b	2	2437	7.07	7.07	---	---	500
11b	2	2462	6.55	7.07	---	---	500
11g	2	2412	16.35	16.35	---	---	500
11g	2	2437	16.35	16.35	---	---	500
11g	2	2462	16.35	16.35	---	---	500
HT20	2	2412	17.62	17.62	---	---	500
HT20	2	2437	17.62	17.57	---	---	500
HT20	2	2462	17.62	17.51	---	---	500
HT40	2	2422	36.41	35.83	---	---	500
HT40	2	2437	36.41	36.17	---	---	500
HT40	2	2452	36.29	35.94	---	---	500

Worst Plots



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	2	2412	11.58	11.58	---	---
11b	2	2437	11.51	11.69	---	---
11b	2	2462	11.54	11.79	---	---
11g	2	2412	17.08	16.86	---	---
11g	2	2437	17.15	16.90	---	---
11g	2	2462	17.00	16.79	---	---
HT20	2	2412	18.16	18.05	---	---
HT20	2	2437	18.20	17.98	---	---
HT20	2	2462	18.13	18.02	---	---
HT40	2	2422	37.25	37.05	---	---
HT40	2	2437	37.19	37.25	---	---
HT40	2	2452	37.38	37.12	---	---

Worst Plots



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

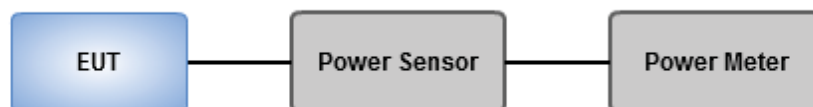
- ☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☐ Antenna gain $> 6\text{dBi}$
 - ☐ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna 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 DTS 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 (For reference only)
 - ☒ **Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS 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



3.3.4 Test Result of Maximum Output Power (Configuration 1: Internal PIFA antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	26.68	25.92	---	---	856.427	29.33	30.00
11b	2	2437	26.13	25.18	---	---	739.814	28.69	30.00
11b	2	2462	25.72	24.41	---	---	649.308	28.12	30.00
11g	2	2412	26.72	25.66	---	---	838.023	29.23	30.00
11g	2	2437	27.22	26.20	---	---	944.099	29.75	30.00
11g	2	2462	26.41	25.74	---	---	812.495	29.10	30.00
HT20	2	2412	25.98	24.94	---	---	708.167	28.50	30.00
HT20	2	2437	27.44	26.11	---	---	962.945	29.84	30.00
HT20	2	2462	26.32	25.31	---	---	768.174	28.85	30.00
HT40	2	2422	22.87	22.14	---	---	357.324	25.53	30.00
HT40	2	2437	26.34	25.17	---	---	759.378	28.80	30.00
HT40	2	2452	24.09	22.73	---	---	443.948	26.47	30.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	23.84	23.17	---	---	449.594	26.53	30.00
11b	2	2437	23.24	22.25	---	---	378.743	25.78	30.00
11b	2	2462	22.28	21.55	---	---	311.933	24.94	30.00
11g	2	2412	18.19	16.92	---	---	115.121	20.61	30.00
11g	2	2437	19.45	18.63	---	---	161.051	22.07	30.00
11g	2	2462	18.04	17.03	---	---	114.146	20.57	30.00
HT20	2	2412	17.06	15.93	---	---	89.990	19.54	30.00
HT20	2	2437	19.52	18.38	---	---	158.402	22.00	30.00
HT20	2	2462	17.78	16.52	---	---	104.854	20.21	30.00
HT40	2	2422	13.49	12.82	---	---	41.478	16.18	30.00
HT40	2	2437	17.53	16.24	---	---	98.697	19.94	30.00
HT40	2	2452	14.75	13.39	---	---	51.681	17.13	30.00

Note: Conducted average output power is for reference only.

3.3.5 Test Result of Maximum Output Power (Configuration 2: External Dipole antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	25.75	25.76	---	---	752.541	28.77	30.00
11b	2	2437	19.77	20.48	---	---	206.528	23.15	30.00
11b	2	2462	18.82	18.93	---	---	154.371	21.89	30.00
11g	2	2412	24.88	24.22	---	---	571.851	27.57	30.00
11g	2	2437	26.75	27.04	---	---	978.976	29.91	30.00
11g	2	2462	26.22	25.66	---	---	786.923	28.96	30.00
HT20	2	2412	24.72	24.77	---	---	596.399	27.76	30.00
HT20	2	2437	26.61	26.94	---	---	952.453	29.79	30.00
HT20	2	2462	25.31	24.73	---	---	636.792	28.04	30.00
HT40	2	2422	22.45	22.27	---	---	344.448	25.37	30.00
HT40	2	2437	25.50	25.24	---	---	689.008	28.38	30.00
HT40	2	2452	23.38	23.44	---	---	438.571	26.42	30.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	22.79	22.88	---	---	384.196	25.85	30.00
11b	2	2437	16.67	17.55	---	---	103.337	20.14	30.00
11b	2	2462	15.77	15.99	---	---	77.476	18.89	30.00
11g	2	2412	16.08	15.85	---	---	79.010	18.98	30.00
11g	2	2437	18.51	19.12	---	---	152.616	21.84	30.00
11g	2	2462	17.41	16.88	---	---	103.834	20.16	30.00
HT20	2	2412	15.62	15.68	---	---	73.458	18.66	30.00
HT20	2	2437	18.10	18.71	---	---	138.867	21.43	30.00
HT20	2	2462	16.28	15.74	---	---	79.959	19.03	30.00
HT40	2	2422	13.05	12.78	---	---	39.151	15.93	30.00
HT40	2	2437	16.25	16.10	---	---	82.908	19.19	30.00
HT40	2	2452	13.96	14.12	---	---	50.711	17.05	30.00

Note: Conducted average output power is for reference only.

3.3.6 Test Result of Maximum Output Power (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	23.78	23.56	---	---	465.768	26.68	30.00
11b	2	2437	24.18	23.88	---	---	506.161	27.04	30.00
11b	2	2462	23.94	23.77	---	---	485.974	26.87	30.00
11g	2	2412	24.88	24.22	---	---	571.851	27.57	30.00
11g	2	2437	26.75	27.04	---	---	978.976	29.91	30.00
11g	2	2462	25.24	24.54	---	---	618.641	27.91	30.00
HT20	2	2412	24.72	24.77	---	---	596.399	27.76	30.00
HT20	2	2437	26.61	26.94	---	---	952.453	29.79	30.00
HT20	2	2462	24.89	24.67	---	---	601.408	27.79	30.00
HT40	2	2422	22.45	22.27	---	---	344.448	25.37	30.00
HT40	2	2437	25.50	25.24	---	---	689.008	28.38	30.00
HT40	2	2452	22.72	22.59	---	---	368.620	25.67	30.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	20.62	20.57	---	---	229.370	23.61	30.00
11b	2	2437	20.75	20.65	---	---	234.995	23.71	30.00
11b	2	2462	20.56	20.51	---	---	226.223	23.55	30.00
11g	2	2412	16.08	15.85	---	---	79.010	18.98	30.00
11g	2	2437	18.51	19.12	---	---	152.616	21.84	30.00
11g	2	2462	16.32	15.94	---	---	82.119	19.14	30.00
HT20	2	2412	15.62	15.68	---	---	73.458	18.66	30.00
HT20	2	2437	18.10	18.71	---	---	138.867	21.43	30.00
HT20	2	2462	15.73	15.51	---	---	72.974	18.63	30.00
HT40	2	2422	13.05	12.78	---	---	39.151	15.93	30.00
HT40	2	2437	16.25	16.10	---	---	82.908	19.19	30.00
HT40	2	2452	13.21	13.58	---	---	43.745	16.41	30.00

Note: Conducted average output power is for reference only.

3.3.7 Test Result of Maximum Output Power (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	22.64	22.54	---	---	363.127	25.60	30.00
11b	2	2437	23.09	23.47	---	---	426.035	26.29	30.00
11b	2	2462	22.23	21.54	---	---	309.670	24.91	30.00
11g	2	2412	24.41	24.08	---	---	531.916	27.26	30.00
11g	2	2437	25.67	25.83	---	---	751.802	28.76	30.00
11g	2	2462	25.24	24.54	---	---	618.641	27.91	30.00
HT20	2	2412	23.82	23.62	---	---	471.135	26.73	30.00
HT20	2	2437	25.71	25.89	---	---	760.542	28.81	30.00
HT20	2	2462	24.89	24.67	---	---	601.408	27.79	30.00
HT40	2	2422	19.53	20.36	---	---	198.385	22.98	30.00
HT40	2	2437	23.36	23.29	---	---	430.075	26.34	30.00
HT40	2	2452	22.72	22.59	---	---	368.620	25.67	30.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	2	2412	19.65	19.57	---	---	182.830	22.62	30.00
11b	2	2437	19.91	20.53	---	---	210.929	23.24	30.00
11b	2	2462	18.93	18.59	---	---	150.440	21.77	30.00
11g	2	2412	15.24	15.04	---	---	65.335	18.15	30.00
11g	2	2437	16.64	17.11	---	---	97.536	19.89	30.00
11g	2	2462	16.32	15.94	---	---	82.119	19.14	30.00
HT20	2	2412	14.49	14.37	---	---	55.472	17.44	30.00
HT20	2	2437	16.59	17.06	---	---	96.420	19.84	30.00
HT20	2	2462	15.73	15.51	---	---	72.974	18.63	30.00
HT40	2	2422	11.31	11.75	---	---	28.483	14.55	30.00
HT40	2	2437	15.19	15.14	---	---	65.696	18.18	30.00
HT40	2	2452	13.21	13.58	---	---	43.745	16.41	30.00

Note: Conducted average output power is for reference only.

3.4 Power Spectral Density

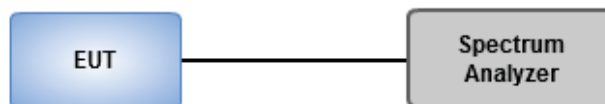
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 3kHz, VBW = 10kHz.
 2. Detector = Peak, Sweep time = auto couple.
 3. Trace mode = max hold, allow trace to fully stabilize.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 4. Perform the measurement over a single sweep.
 5. Use the peak marker function to determine the maximum amplitude level.

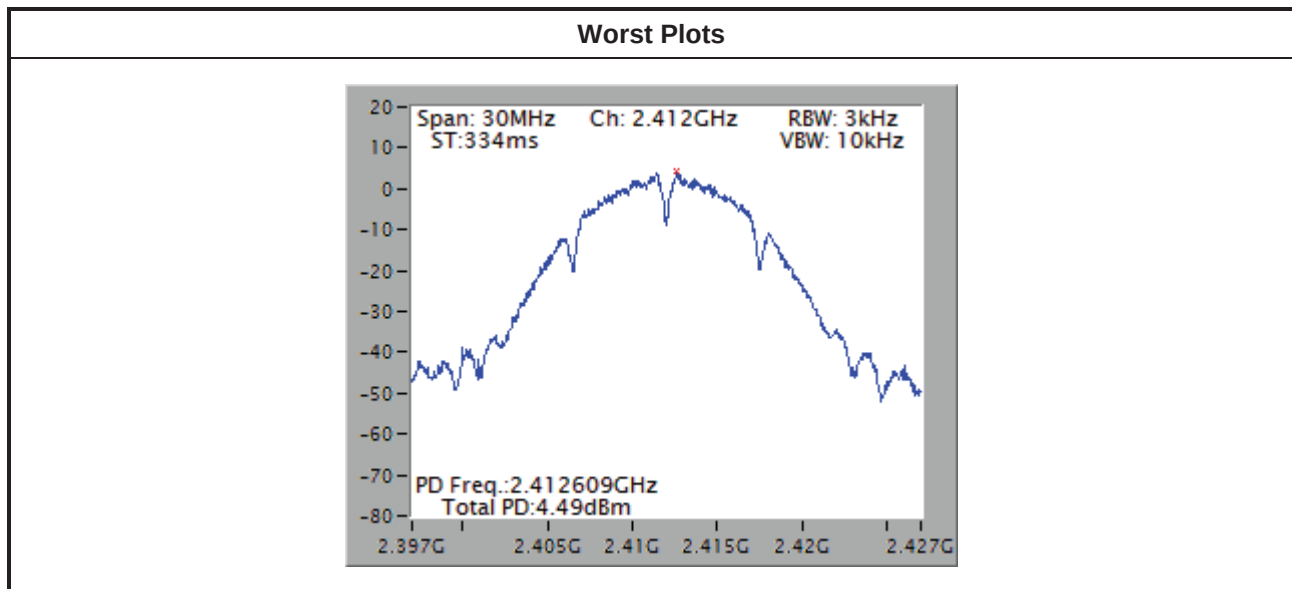
3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density (Configuration 1: Internal PIFA antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	2	2412	4.49	7.65
11b	2	2437	4.07	7.65
11b	2	2462	2.63	7.65
11g	2	2412	-4.09	7.65
11g	2	2437	-4.49	7.65
11g	2	2462	-5.43	7.65
HT20	2	2412	-6.00	7.65
HT20	2	2437	-4.38	7.65
HT20	2	2462	-6.37	7.65
HT40	2	2422	-13.02	7.65
HT40	2	2437	-8.29	7.65
HT40	2	2452	-12.41	7.65

Note: Test result is bin-by-bin summing measured value of each TX port.



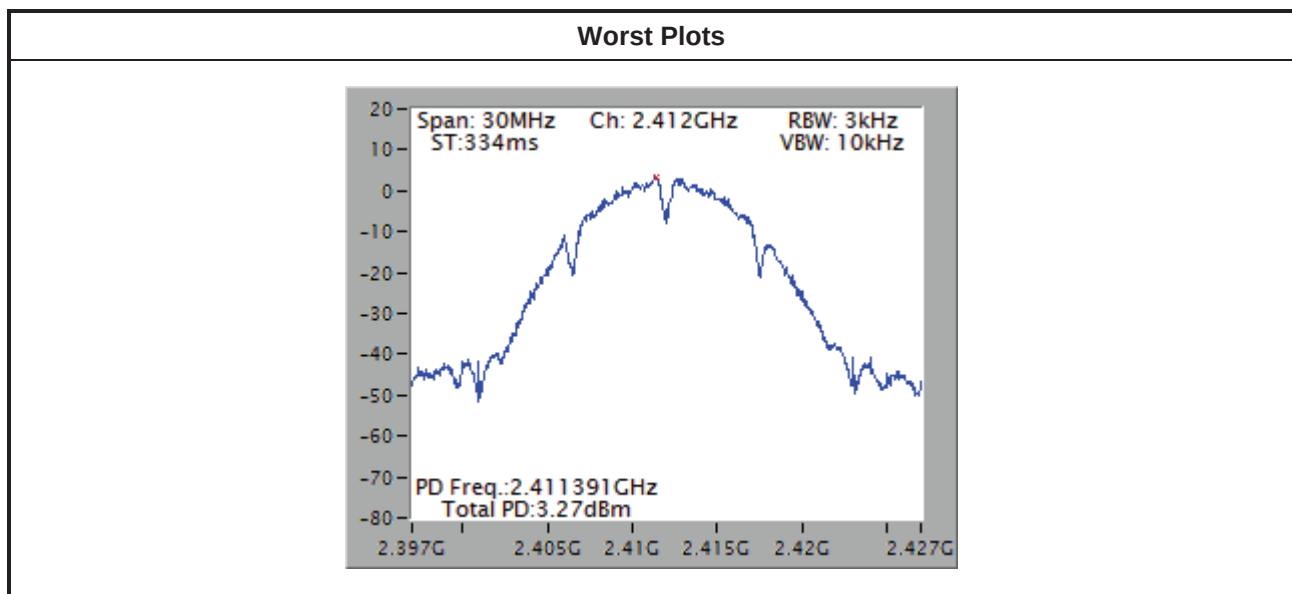
Note:

- Directional gain = $10 * \log((10^{3.52/20} + 10^{3.16/20})^2 / 2) = 6.35 \text{ dBi} > 6 \text{ dBi}$
Limit shall be reduced to $8 \text{ dBm} - (6.35 \text{ dBi} - 6 \text{ dBi}) = 7.65 \text{ dBm}$

3.4.5 Test Result of Power Spectral Density (Configuration 2: External Dipole antenna)

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	2	2412	3.27	6.57
11b	2	2437	-1.88	6.57
11b	2	2462	-4.37	6.57
11g	2	2412	-7.10	6.57
11g	2	2437	-5.01	6.57
11g	2	2462	-7.09	6.57
HT20	2	2412	-7.03	6.57
HT20	2	2437	-4.54	6.57
HT20	2	2462	-6.29	6.57
HT40	2	2422	-12.62	6.57
HT40	2	2437	-9.79	6.57
HT40	2	2452	-12.12	6.57

Note: Test result is bin-by-bin summing measured value of each TX port.



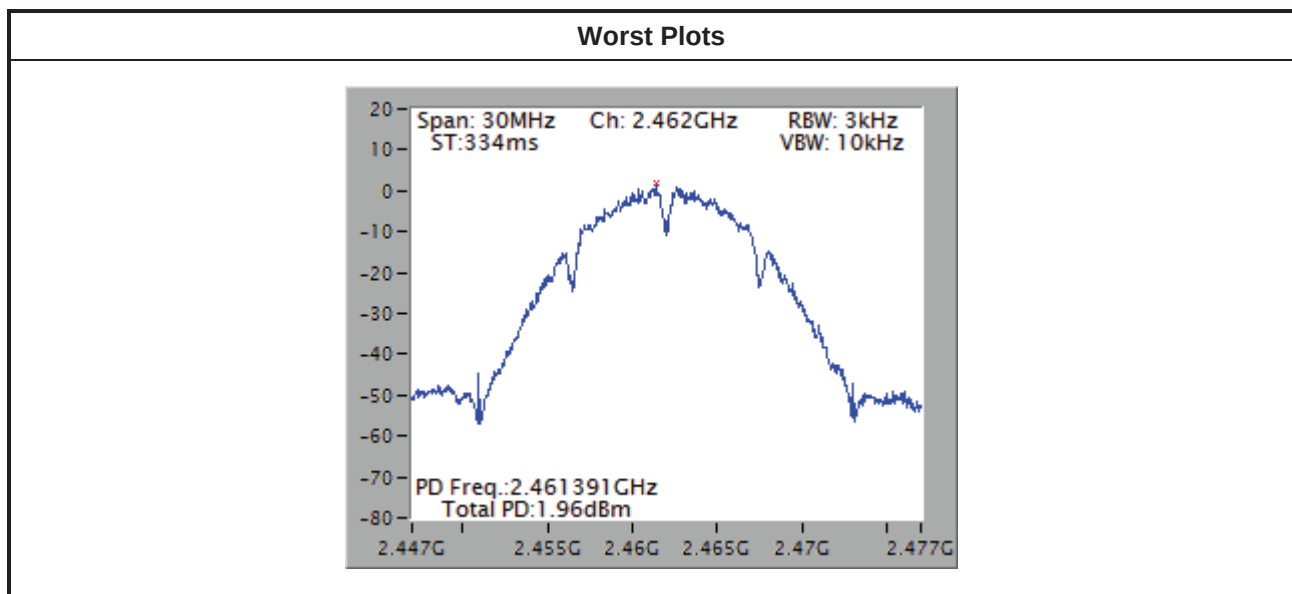
Note:

- Directional gain = $4.42 + 10 \cdot \log(2/1) = 7.43 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $8 \text{ dBm} - (7.43 \text{ dBi} - 6 \text{ dBi}) = 6.57 \text{ dBm}$.

3.4.6 Test Result of Power Spectral Density (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	2	2412	1.35	6.99
11b	2	2437	1.38	6.99
11b	2	2462	1.96	6.99
11g	2	2412	-7.10	6.99
11g	2	2437	-5.01	6.99
11g	2	2462	-6.36	6.99
HT20	2	2412	-7.03	6.99
HT20	2	2437	-4.54	6.99
HT20	2	2462	-7.45	6.99
HT40	2	2422	-12.62	6.99
HT40	2	2437	-9.79	6.99
HT40	2	2452	-11.98	6.99

Note: Test result is bin-by-bin summing measured value of each TX port.



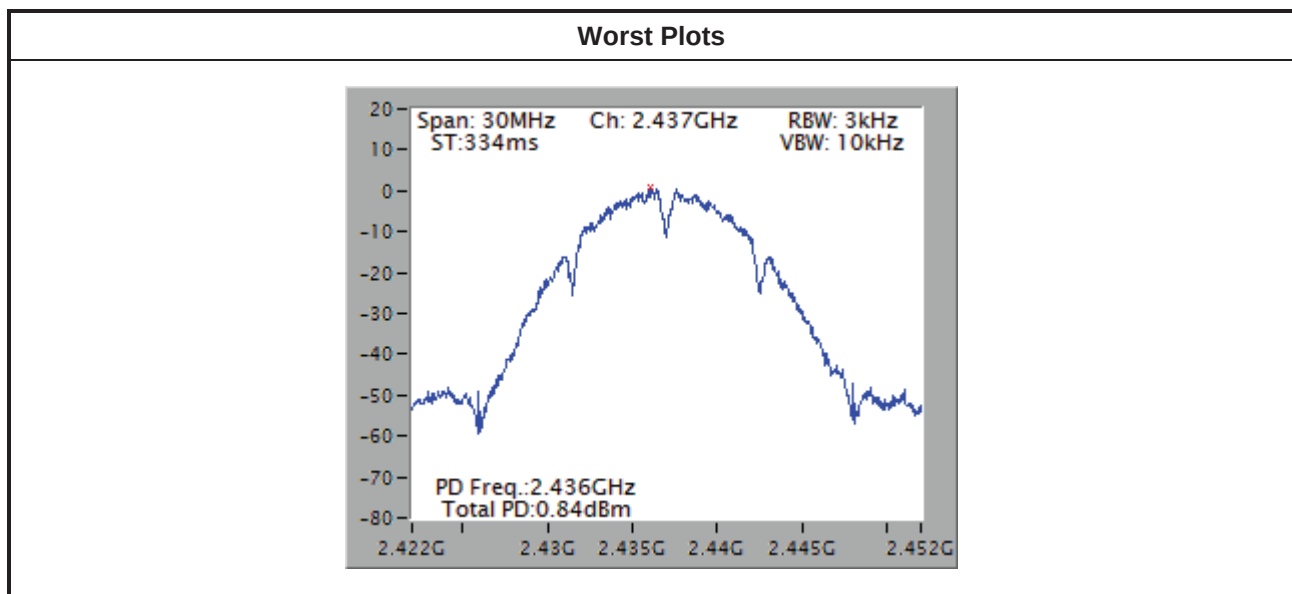
Note:

- Directional gain = $4 + 10 \cdot \log(2/1) = 7.01 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $8 \text{ dBm} - (7.01 \text{ dBi} - 6 \text{ dBi}) = 6.99 \text{ dBm}$.

3.4.7 Test Result of Power Spectral Density (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	2	2412	0.16	5.99
11b	2	2437	0.84	5.99
11b	2	2462	-0.88	5.99
11g	2	2412	-7.17	5.99
11g	2	2437	-6.23	5.99
11g	2	2462	-6.36	5.99
HT20	2	2412	-7.02	5.99
HT20	2	2437	-6.40	5.99
HT20	2	2462	-7.45	5.99
HT40	2	2422	-14.26	5.99
HT40	2	2437	-10.87	5.99
HT40	2	2452	-11.98	5.99

Note: Test result is bin-by-bin summing measured value of each TX port.



Note:

- Directional gain = $5 + 10 \cdot \log(2/1) = 8.01 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $8 \text{ dBm} - (8.01 \text{ dBi} - 6 \text{ dBi}) = 5.99 \text{ dBm}$.

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

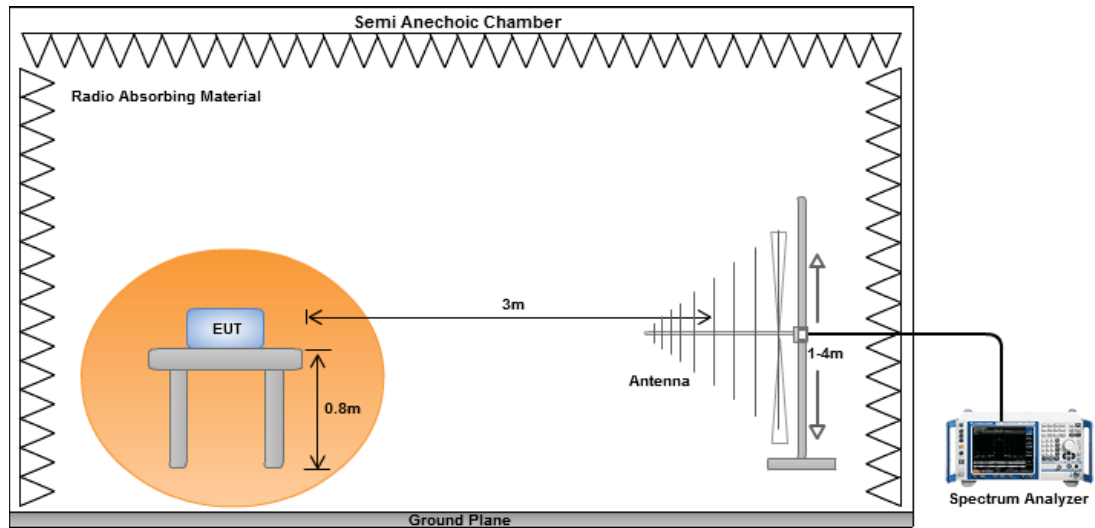
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

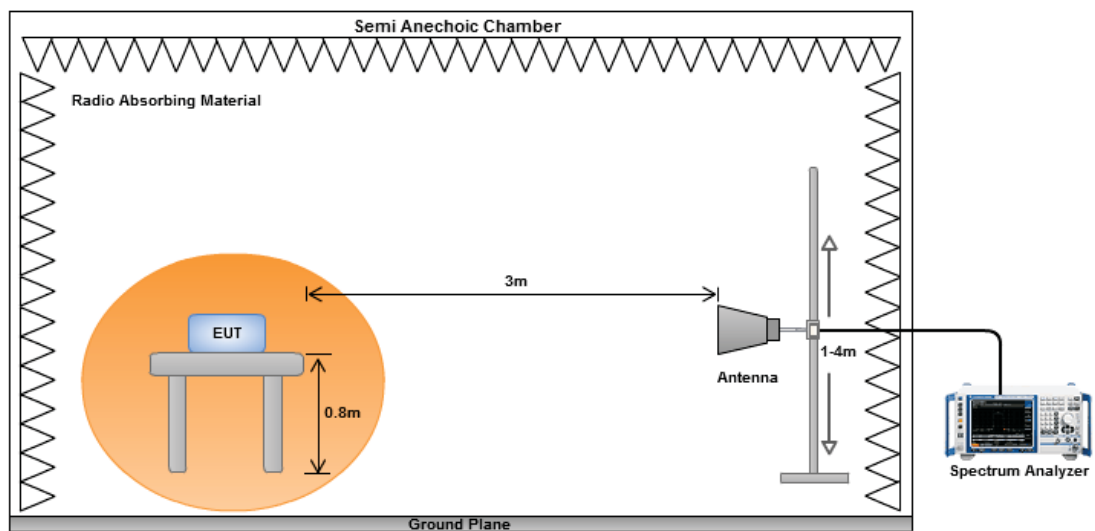
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

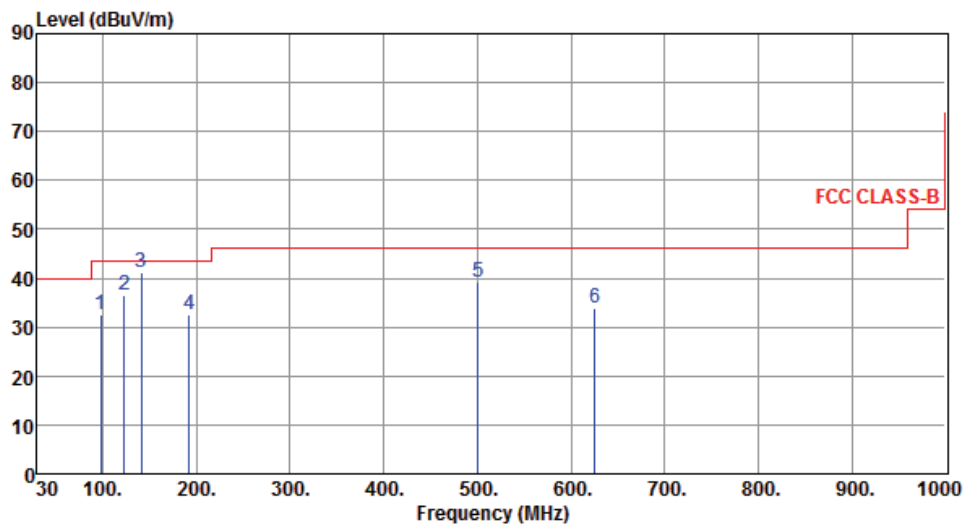


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 1: Internal PIFA antenna)

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	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	97.90	32.42	43.50	-11.08	54.50	-22.08	Peak	---	---
2	123.12	36.51	43.50	-6.99	55.38	-18.87	Peak	---	---
3	141.55	41.28	43.50	-2.22	58.47	-17.19	Peak	---	---
4	191.99	32.50	43.50	-11.00	52.11	-19.61	Peak	---	---
5	500.45	39.03	46.00	-6.97	50.57	-11.54	Peak	---	---
6	625.58	33.81	46.00	-12.19	42.99	-9.18	Peak	---	---

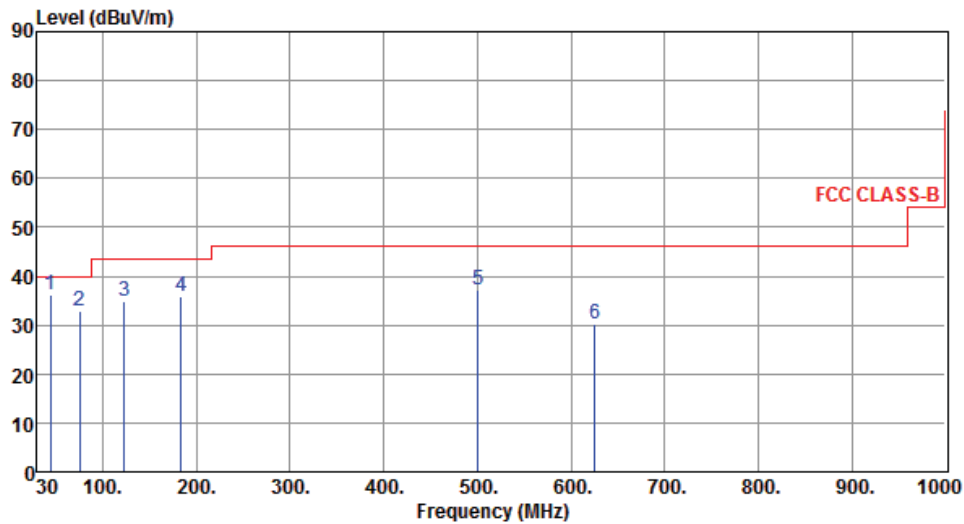
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	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	44.55	36.29	40.00	-3.71	53.11	-16.82	Peak	---	---
2	75.64	32.82	40.00	-7.18	53.51	-20.69	QP	---	---
3	123.12	34.85	43.50	-8.65	53.72	-18.87	Peak	---	---
4	183.26	35.72	43.50	-7.78	54.59	-18.87	Peak	---	---
5	500.45	37.20	46.00	-8.80	48.74	-11.54	Peak	---	---
6	625.58	30.38	46.00	-15.62	39.56	-9.18	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

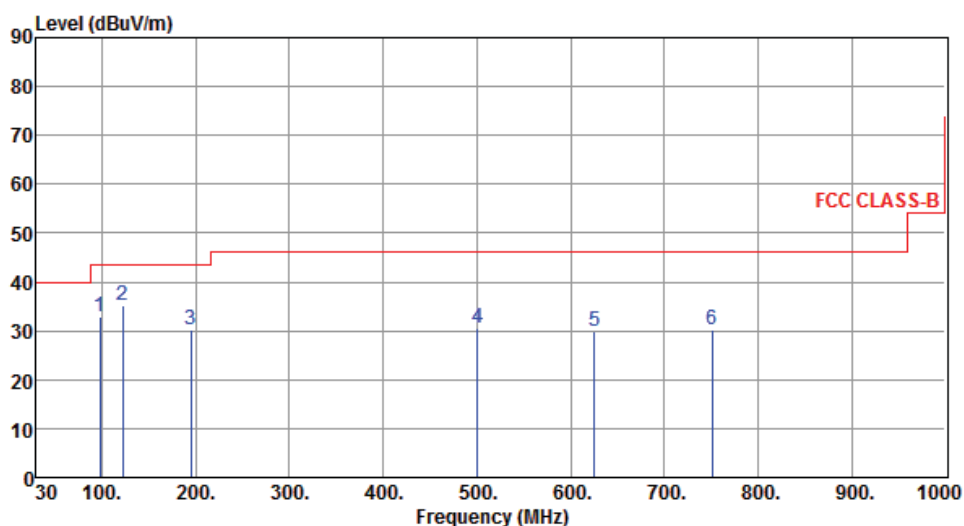
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 2: External Dipole antenna)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	97.90	32.72	43.50	-10.78	54.80	-22.08	Peak	---	---
2	122.15	35.22	43.50	-8.28	54.17	-18.95	Peak	---	---
3	194.90	30.12	43.50	-13.38	49.74	-19.62	Peak	---	---
4	500.45	30.60	46.00	-15.40	42.14	-11.54	Peak	---	---
5	625.58	29.92	46.00	-16.08	39.10	-9.18	Peak	---	---
6	750.71	30.34	46.00	-15.66	37.57	-7.23	Peak	---	---

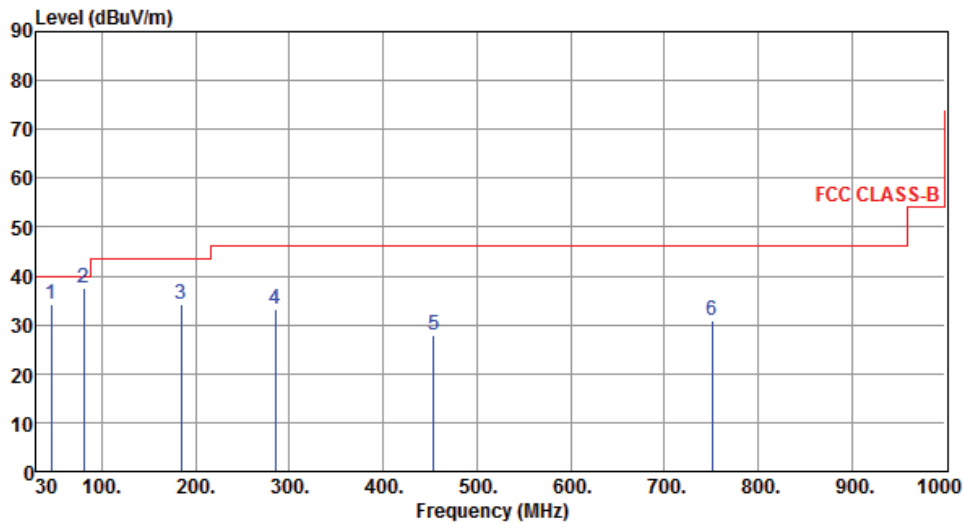
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.25	34.18	40.00	-5.82	50.91	-16.73	QP	---	---
2	80.44	37.65	40.00	-2.35	59.35	-21.70	Peak	---	---
3	184.23	34.07	43.50	-9.43	53.05	-18.98	Peak	---	---
4	285.11	33.25	46.00	-12.75	49.80	-16.55	Peak	---	---
5	453.89	27.76	46.00	-18.24	40.21	-12.45	Peak	---	---
6	750.71	31.05	46.00	-14.95	38.28	-7.23	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

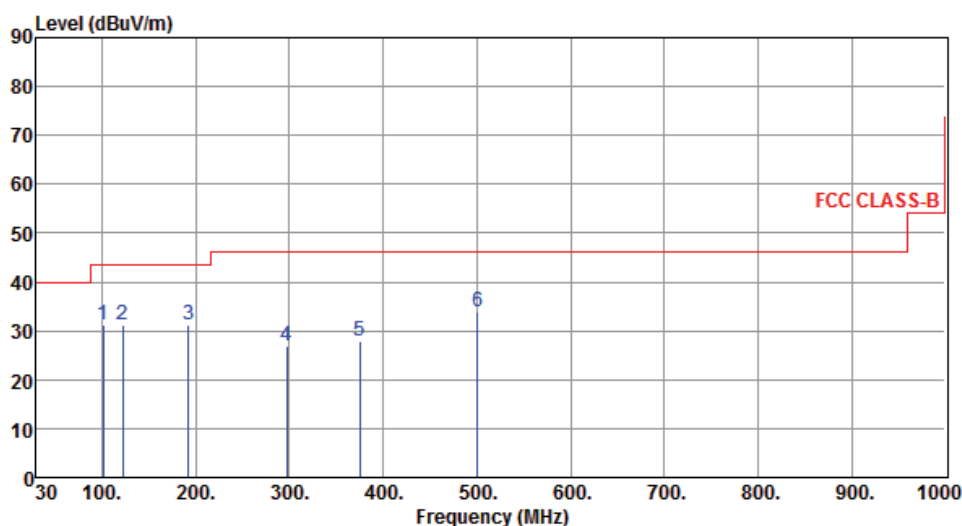
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.6 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	101.78	31.13	43.50	-12.37	52.56	-21.43	Peak	---	---
2	122.15	31.20	43.50	-12.30	50.13	-18.93	Peak	---	---
3	191.99	31.25	43.50	-12.25	50.38	-19.13	Peak	---	---
4	296.75	26.91	46.00	-19.09	43.06	-16.15	Peak	---	---
5	375.32	27.90	46.00	-18.10	42.13	-14.23	Peak	---	---
6	500.45	33.74	46.00	-12.26	45.15	-11.41	Peak	---	---

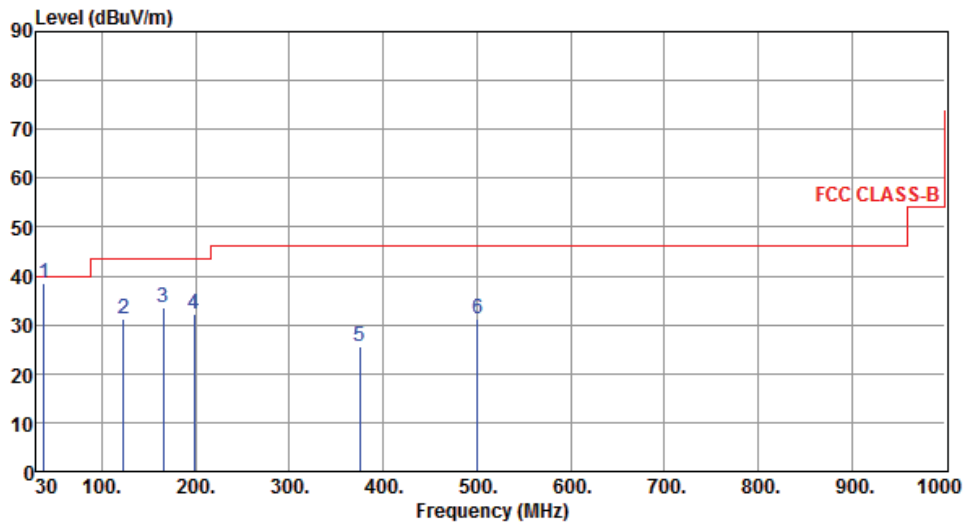
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	37.94	38.46	40.00	-1.54	55.50	-17.04	QP	---	---
2	123.12	31.36	43.50	-12.14	50.18	-18.82	Peak	---	---
3	165.80	33.54	43.50	-9.96	50.43	-16.89	Peak	---	---
4	198.78	32.24	43.50	-11.26	51.41	-19.17	Peak	---	---
5	375.32	25.70	46.00	-20.30	39.93	-14.23	Peak	---	---
6	500.45	31.16	46.00	-14.84	42.57	-11.41	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

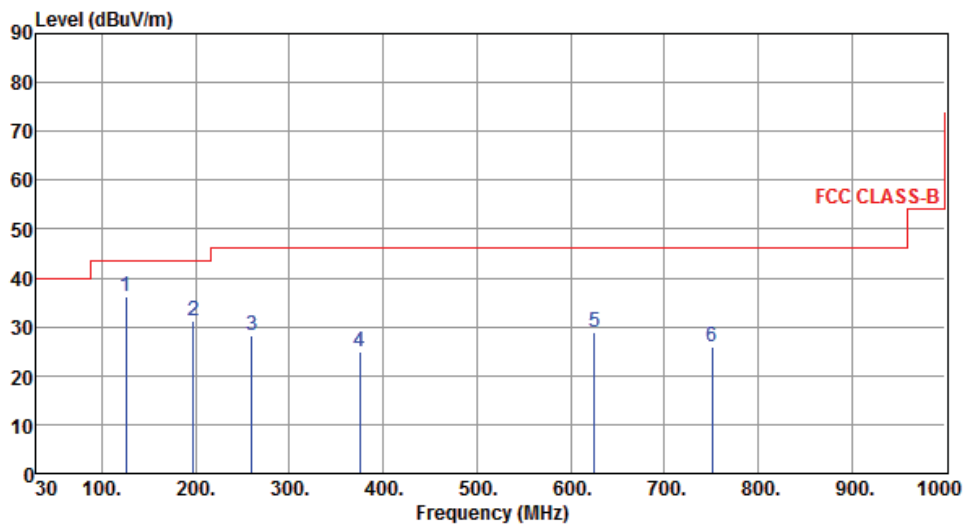
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.7 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	126.03	36.18	43.50	-7.32	54.70	-18.52	Peak	---	---
2	197.81	31.37	43.50	-12.13	50.54	-19.17	Peak	---	---
3	259.89	28.11	46.00	-17.89	45.52	-17.41	Peak	---	---
4	375.32	24.95	46.00	-21.05	39.18	-14.23	Peak	---	---
5	625.58	28.96	46.00	-17.04	38.16	-9.20	Peak	---	---
6	750.71	26.04	46.00	-19.96	33.10	-7.06	Peak	---	---

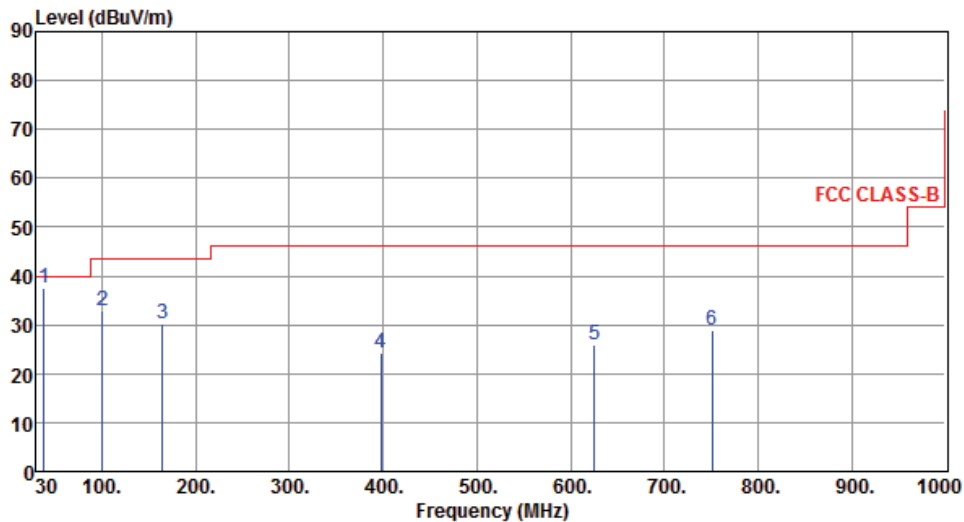
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	37.76	37.59	40.00	-2.41	54.64	-17.05	Peak	---	---
2	100.81	32.92	43.50	-10.58	54.52	-21.60	Peak	---	---
3	164.83	30.38	43.50	-13.12	47.26	-16.88	Peak	---	---
4	397.63	24.17	46.00	-21.83	37.82	-13.65	Peak	---	---
5	625.58	26.00	46.00	-20.00	35.20	-9.20	Peak	---	---
6	750.71	28.75	46.00	-17.25	35.81	-7.06	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

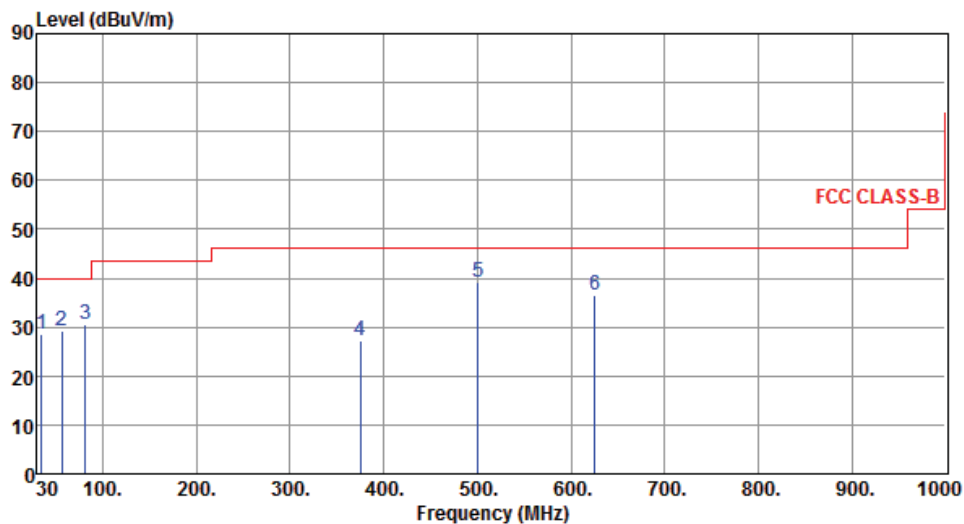
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.8 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 5: Internal PIFA antenna)

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	5



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	34.85	28.69	40.00	-11.31	46.07	-17.38	Peak	---	---
2	56.19	29.14	40.00	-10.86	46.05	-16.91	Peak	---	---
3	81.41	30.48	40.00	-9.52	52.31	-21.83	Peak	---	---
4	375.32	27.08	46.00	-18.92	41.42	-14.34	Peak	---	---
5	500.45	39.03	46.00	-6.97	50.57	-11.54	Peak	---	---
6	625.58	36.41	46.00	-9.59	45.59	-9.18	Peak	---	---

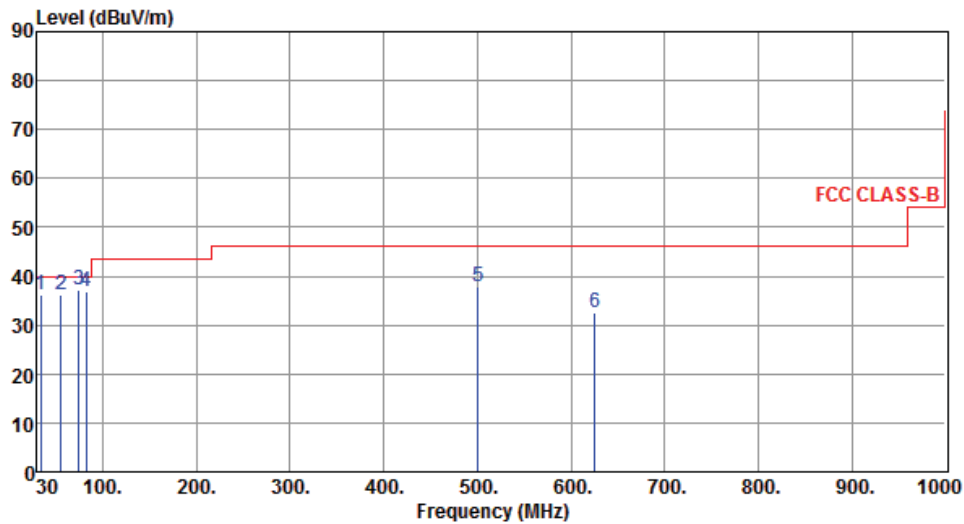
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	5



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	33.88	36.20	40.00	-3.80	53.65	-17.45	Peak	---	---
2	55.35	36.11	40.00	-3.89	52.97	-16.86	QP	---	---
3	74.62	37.35	40.00	-2.65	57.82	-20.47	Peak	---	---
4	82.38	36.74	40.00	-3.26	58.69	-21.95	Peak	---	---
5	500.45	37.92	46.00	-8.08	49.46	-11.54	Peak	---	---
6	625.58	32.51	46.00	-13.49	41.69	-9.18	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

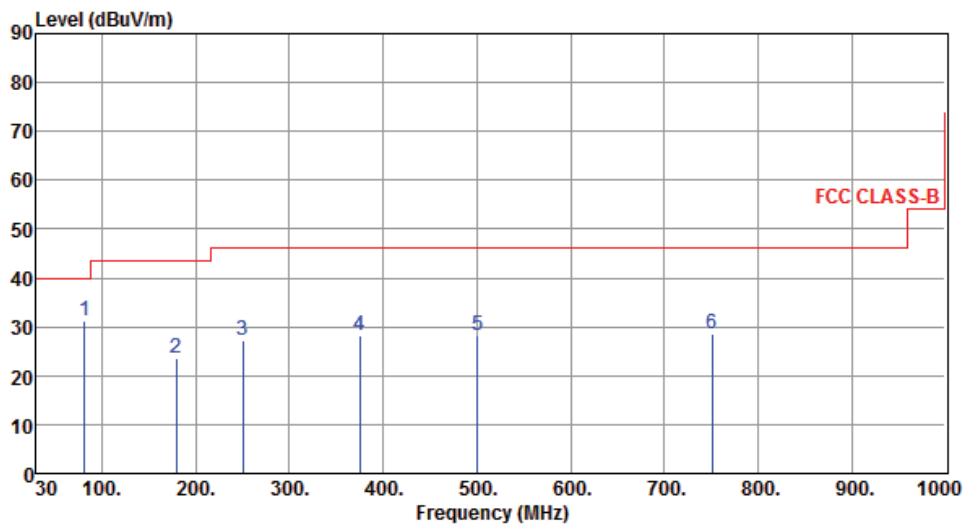
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 6: External Dipole antenna)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	6



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	81.41	31.07	40.00	-8.93	52.90	-21.83	Peak	---	---
2	179.38	23.59	43.50	-19.91	42.03	-18.44	Peak	---	---
3	250.19	27.10	46.00	-18.90	45.02	-17.92	Peak	---	---
4	375.32	28.30	46.00	-17.70	42.64	-14.34	Peak	---	---
5	500.45	28.12	46.00	-17.88	39.66	-11.54	Peak	---	---
6	750.71	28.48	46.00	-17.52	35.71	-7.23	Peak	---	---

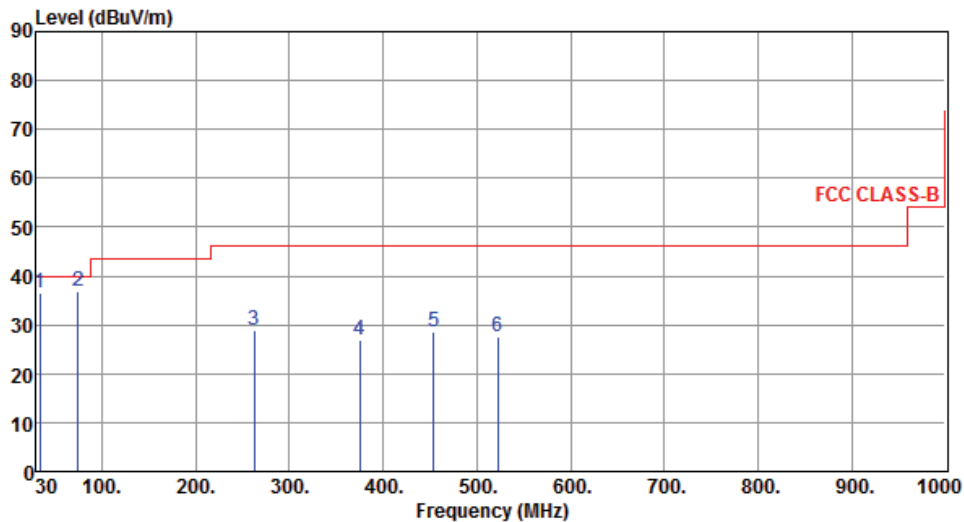
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	6



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	33.88	36.60	40.00	-3.40	54.05	-17.45	Peak	---	---
2	74.62	36.89	40.00	-3.11	57.36	-20.47	Peak	---	---
3	262.80	28.82	46.00	-17.18	46.29	-17.47	Peak	---	---
4	375.32	27.02	46.00	-18.98	41.36	-14.34	Peak	---	---
5	453.89	28.56	46.00	-17.44	41.01	-12.45	Peak	---	---
6	522.76	27.70	46.00	-18.30	38.87	-11.17	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

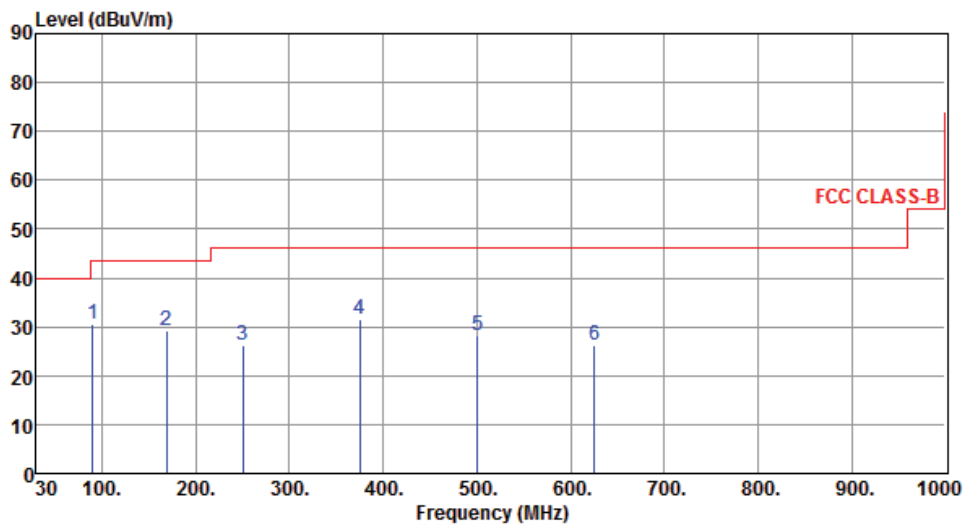
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.10 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 7: External Directional Panel antenna (model WS-AI-DQ04360))

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	7



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	90.14	30.47	43.50	-13.03	53.42	-22.95	Peak	---	---
2	168.71	29.21	43.50	-14.29	46.15	-16.94	Peak	---	---
3	250.19	26.19	46.00	-19.81	43.93	-17.74	Peak	---	---
4	375.32	31.71	46.00	-14.29	45.94	-14.23	Peak	---	---
5	500.45	28.31	46.00	-17.69	39.72	-11.41	Peak	---	---
6	625.58	26.12	46.00	-19.88	35.32	-9.20	Peak	---	---

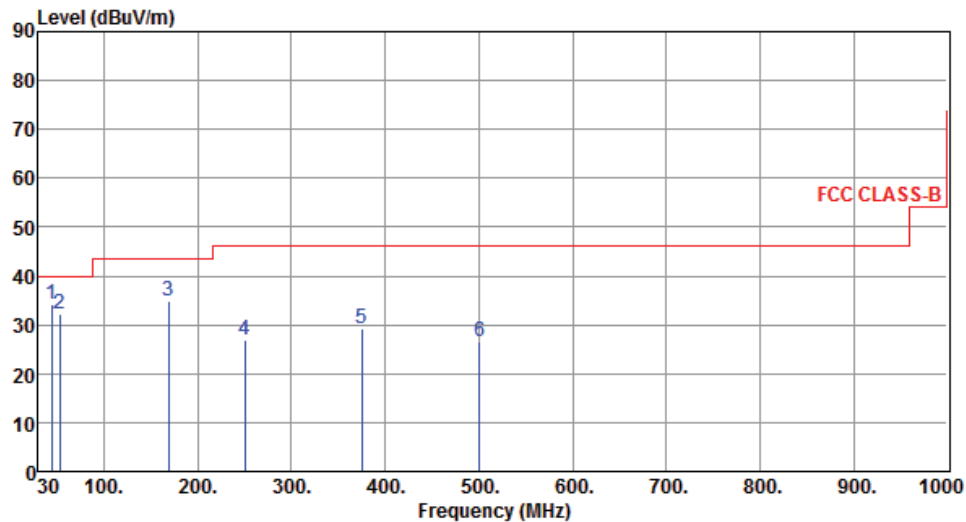
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	7



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	44.55	34.12	40.00	-5.88	50.69	-16.57	Peak	---	---
2	53.28	32.13	40.00	-7.87	48.78	-16.65	Peak	---	---
3	168.71	35.01	43.50	-8.49	51.95	-16.94	Peak	---	---
4	250.19	26.84	46.00	-19.16	44.58	-17.74	Peak	---	---
5	375.32	29.29	46.00	-16.71	43.52	-14.23	Peak	---	---
6	500.45	26.63	46.00	-19.37	38.04	-11.41	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

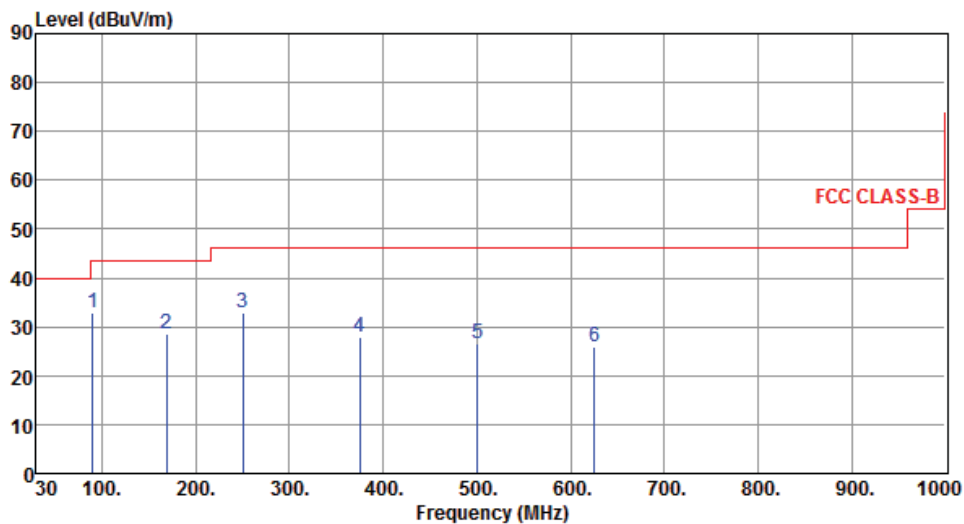
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.11 Transmitter Radiated Unwanted Emissions (Below 1GHz) (Configuration 8: External Directional Panel antenna (model WS-AI-DD05120))

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	8



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	90.14	33.03	43.50	-10.47	55.98	-22.95	Peak	---	---
2	168.71	28.71	43.50	-14.79	45.65	-16.94	Peak	---	---
3	250.19	32.80	46.00	-13.20	50.54	-17.74	Peak	---	---
4	375.32	27.78	46.00	-18.22	42.01	-14.23	Peak	---	---
5	500.45	26.73	46.00	-19.27	38.14	-11.41	Peak	---	---
6	625.58	25.75	46.00	-20.25	34.95	-9.20	Peak	---	---

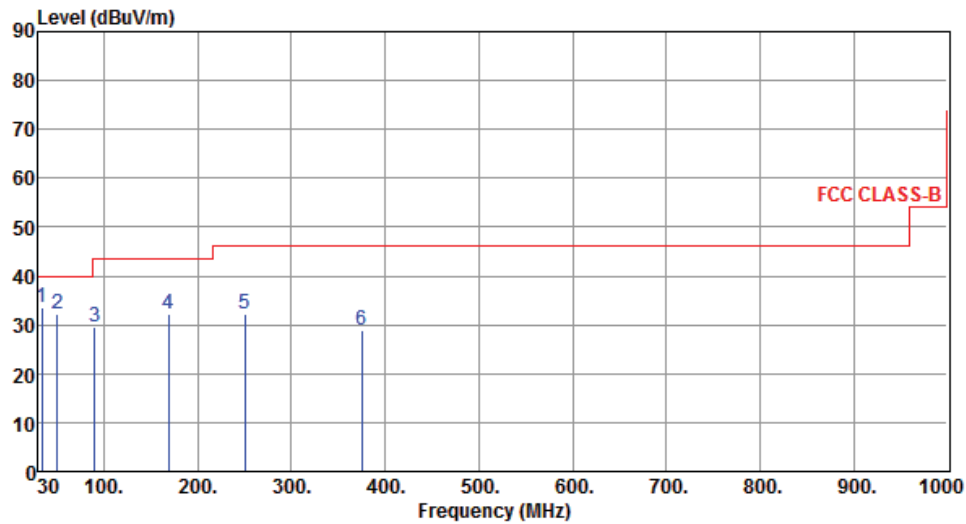
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	8



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	33.88	33.57	40.00	-6.43	50.94	-17.37	Peak	---	---
2	50.37	32.36	40.00	-7.64	48.77	-16.41	Peak	---	---
3	90.14	29.54	43.50	-13.96	52.49	-22.95	Peak	---	---
4	168.71	32.15	43.50	-11.35	49.09	-16.94	Peak	---	---
5	250.19	32.30	46.00	-13.70	50.04	-17.74	Peak	---	---
6	375.32	28.90	46.00	-17.10	43.13	-14.23	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

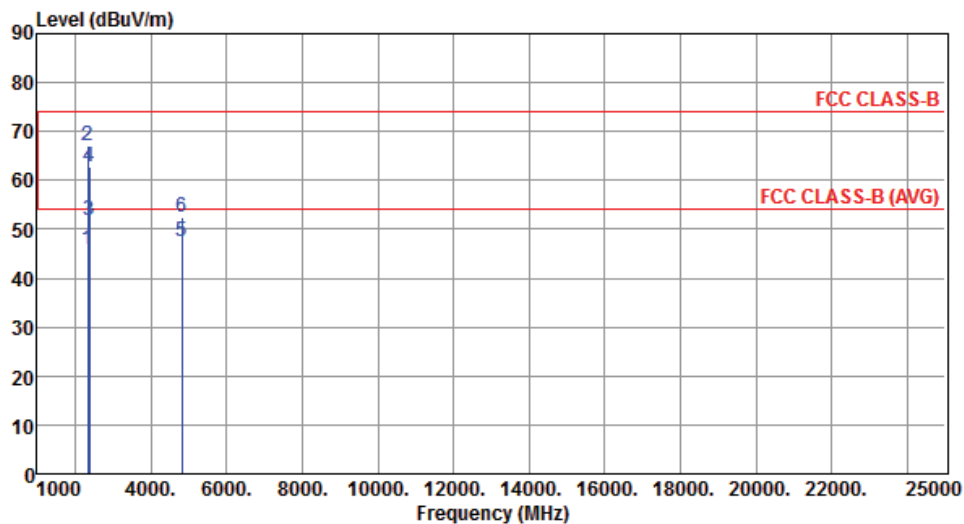
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) (Configuration 1: Internal PIFA antenna)

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



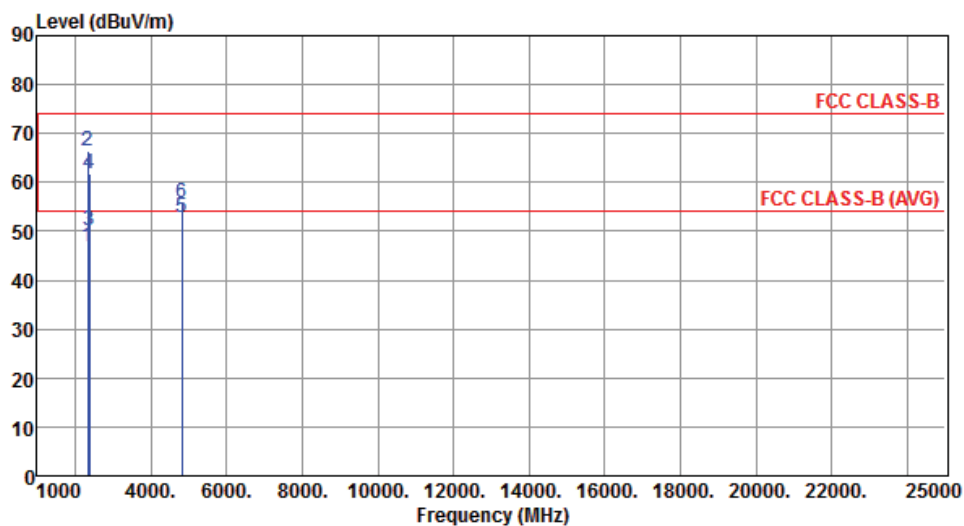
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2332.00	45.96	54.00	-8.04	49.87	-3.91	Average	---	---
2	2332.00	67.17	74.00	-6.83	71.08	-3.91	Peak	---	---
3	2390.00	51.73	54.00	-2.27	55.41	-3.68	Average	---	---
4	2390.00	62.81	74.00	-11.19	66.49	-3.68	Peak	---	---
5	4824.00	47.46	54.00	-6.54	42.47	4.99	Average	---	---
6	4824.00	52.33	74.00	-21.67	47.34	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



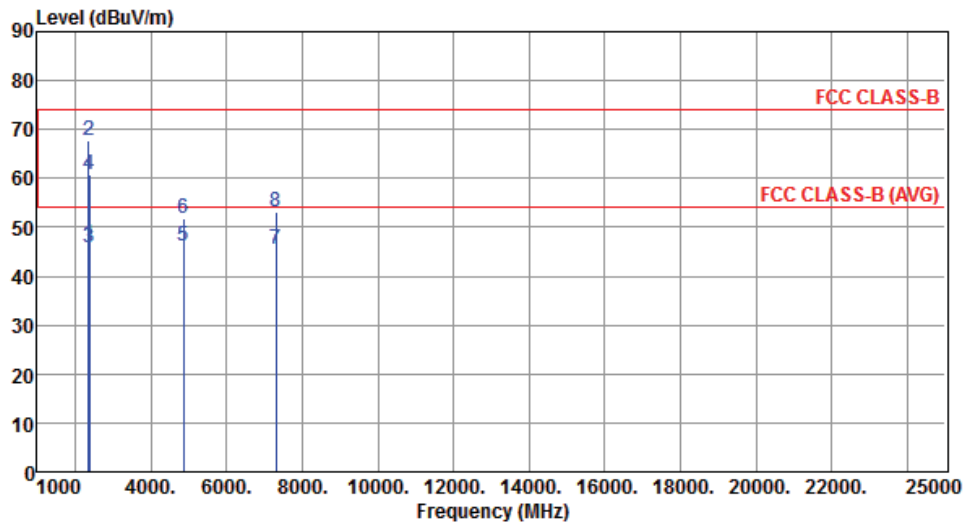
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2332.00	46.85	54.00	-7.15	50.76	-3.91	Average	---	---
2	2332.00	66.58	74.00	-7.42	70.49	-3.91	Peak	---	---
3	2390.00	50.05	54.00	-3.95	53.73	-3.68	Average	---	---
4	2390.00	61.69	74.00	-12.31	65.37	-3.68	Peak	---	---
5	4824.00	52.74	54.00	-1.26	47.75	4.99	Average	---	---
6	4824.00	55.88	74.00	-18.12	50.89	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



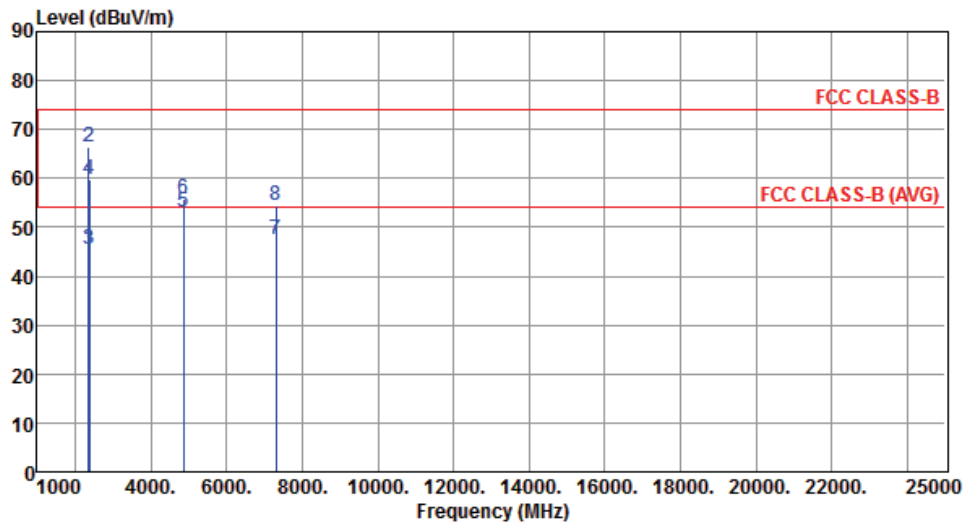
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2357.00	46.46	54.00	-7.54	50.27	-3.81	Average	---	---
2	2357.00	67.60	74.00	-6.40	71.41	-3.81	Peak	---	---
3	2390.00	45.95	54.00	-8.05	49.63	-3.68	Average	---	---
4	2390.00	60.90	74.00	-13.10	64.58	-3.68	Peak	---	---
5	4874.00	46.13	54.00	-7.87	41.03	5.10	Average	---	---
6	4874.00	51.97	74.00	-22.03	46.87	5.10	Peak	---	---
7	7311.00	45.56	54.00	-8.44	36.23	9.33	Average	---	---
8	7311.00	53.09	74.00	-20.91	43.76	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



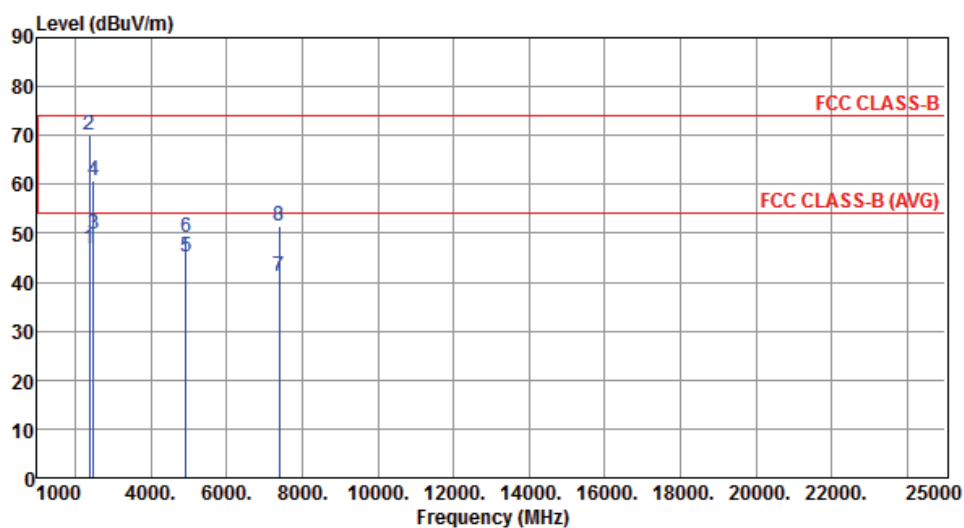
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2357.00	45.39	54.00	-8.61	49.20	-3.81	Average	---	---
2	2357.00	66.56	74.00	-7.44	70.37	-3.81	Peak	---	---
3	2390.00	45.49	54.00	-8.51	49.17	-3.68	Average	---	---
4	2390.00	59.90	74.00	-14.10	63.58	-3.68	Peak	---	---
5	4874.00	53.00	54.00	-1.00	47.90	5.10	Average	---	---
6	4874.00	55.86	74.00	-18.14	50.76	5.10	Peak	---	---
7	7311.00	47.57	54.00	-6.43	38.24	9.33	Average	---	---
8	7311.00	54.39	74.00	-19.61	45.06	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



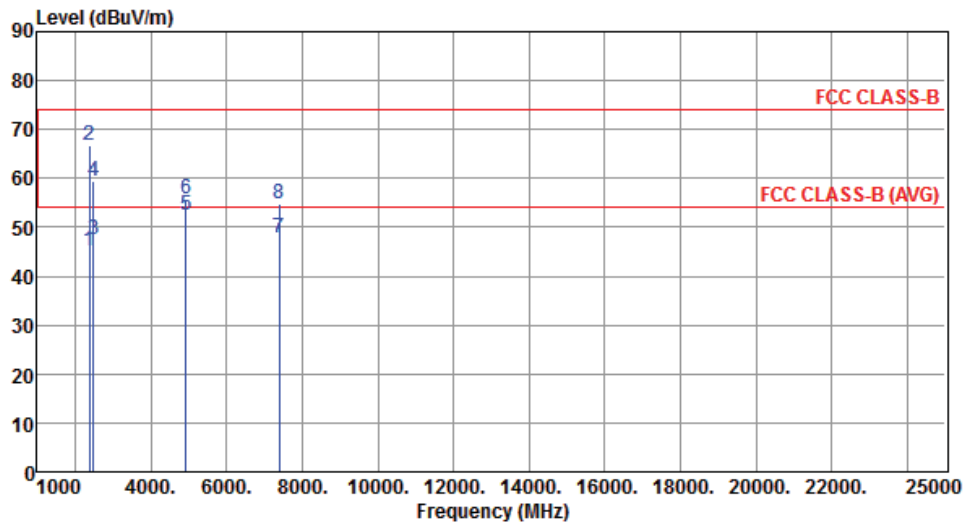
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2382.00	46.87	54.00	-7.13	50.59	-3.72	Average	---	---
2	2382.00	69.91	74.00	-4.09	73.63	-3.72	Peak	---	---
3	2483.50	49.85	54.00	-4.15	53.15	-3.30	Average	---	---
4	2483.50	60.81	74.00	-13.19	64.11	-3.30	Peak	---	---
5	4924.00	45.14	54.00	-8.86	39.94	5.20	Average	---	---
6	4924.00	49.29	74.00	-24.71	44.09	5.20	Peak	---	---
7	7386.00	41.06	54.00	-12.94	31.67	9.39	Average	---	---
8	7386.00	51.53	74.00	-22.47	42.14	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



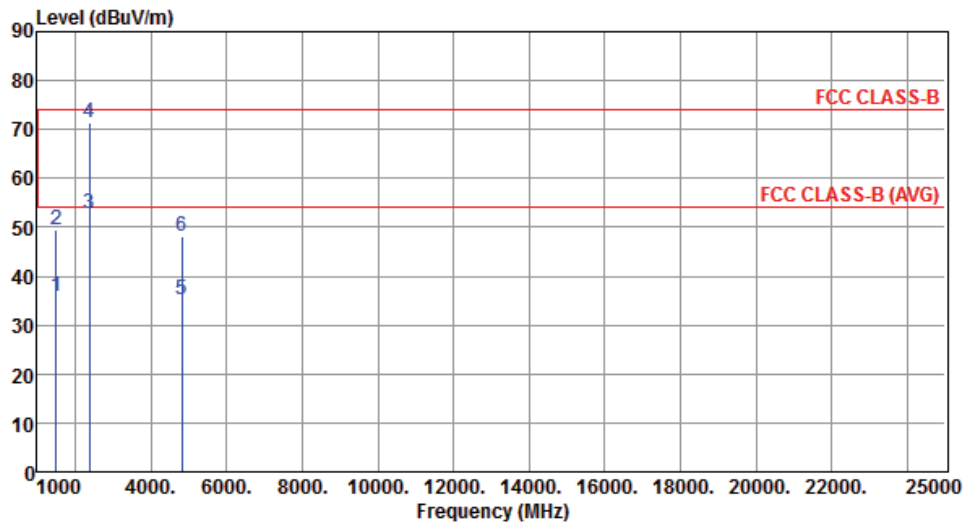
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2382.00	45.05	54.00	-8.95	48.77	-3.72	Average	---	---
2	2382.00	66.82	74.00	-7.18	70.54	-3.72	Peak	---	---
3	2483.50	47.34	54.00	-6.66	50.64	-3.30	Average	---	---
4	2483.50	59.53	74.00	-14.47	62.83	-3.30	Peak	---	---
5	4924.00	52.55	54.00	-1.45	47.35	5.20	Average	---	---
6	4924.00	55.92	74.00	-18.08	50.72	5.20	Peak	---	---
7	7386.00	47.81	54.00	-6.19	38.42	9.39	Average	---	---
8	7386.00	54.74	74.00	-19.26	45.35	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



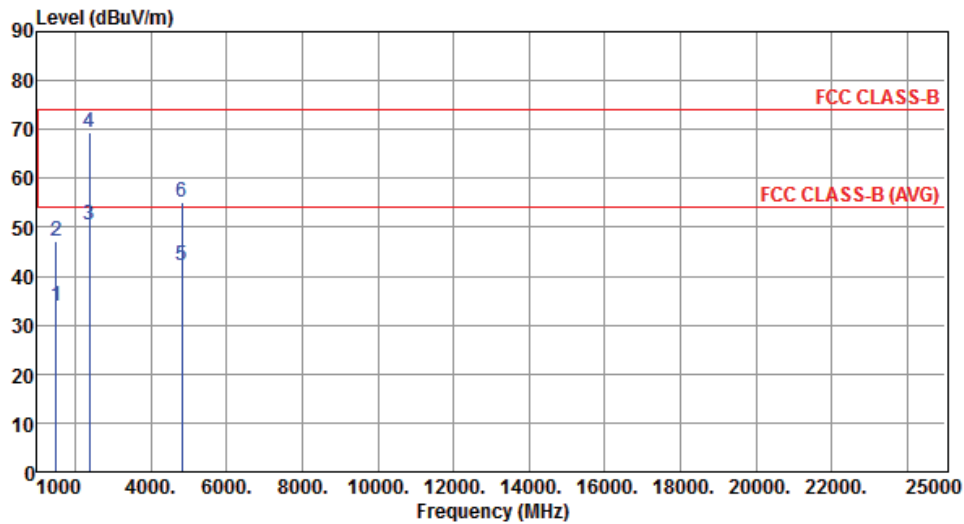
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.85	54.00	-18.15	42.98	-7.13	Average	---	---
2	1500.00	49.62	74.00	-24.38	56.75	-7.13	Peak	---	---
3	2390.00	52.74	54.00	-1.26	56.42	-3.68	Average	---	---
4	2390.00	71.50	74.00	-2.50	75.18	-3.68	Peak	---	---
5	4824.00	35.24	54.00	-18.76	30.25	4.99	Average	---	---
6	4824.00	48.15	74.00	-25.85	43.16	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



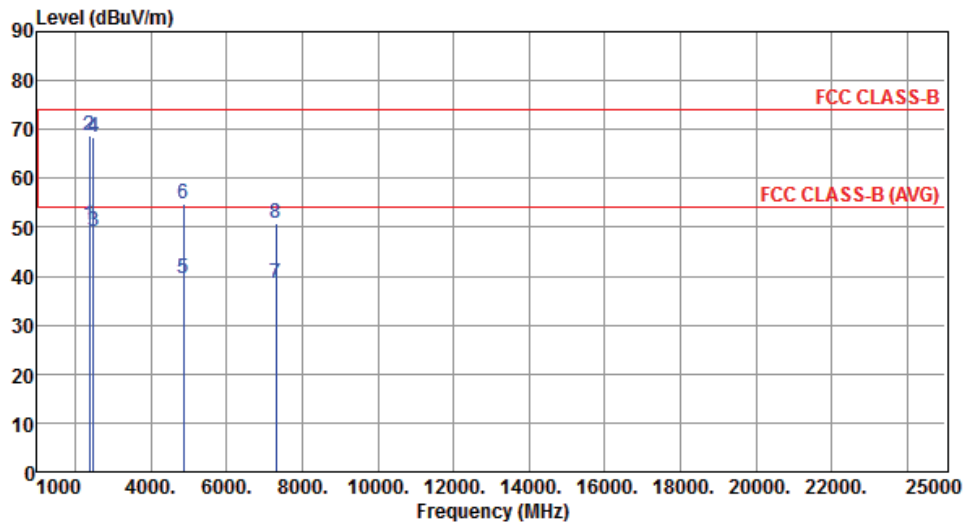
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.78	54.00	-20.22	40.91	-7.13	Average	---	---
2	1500.00	47.07	74.00	-26.93	54.20	-7.13	Peak	---	---
3	2390.00	50.62	54.00	-3.38	54.30	-3.68	Average	---	---
4	2390.00	69.41	74.00	-4.59	73.09	-3.68	Peak	---	---
5	4824.00	42.02	54.00	-11.98	37.03	4.99	Average	---	---
6	4824.00	55.26	74.00	-18.74	50.27	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



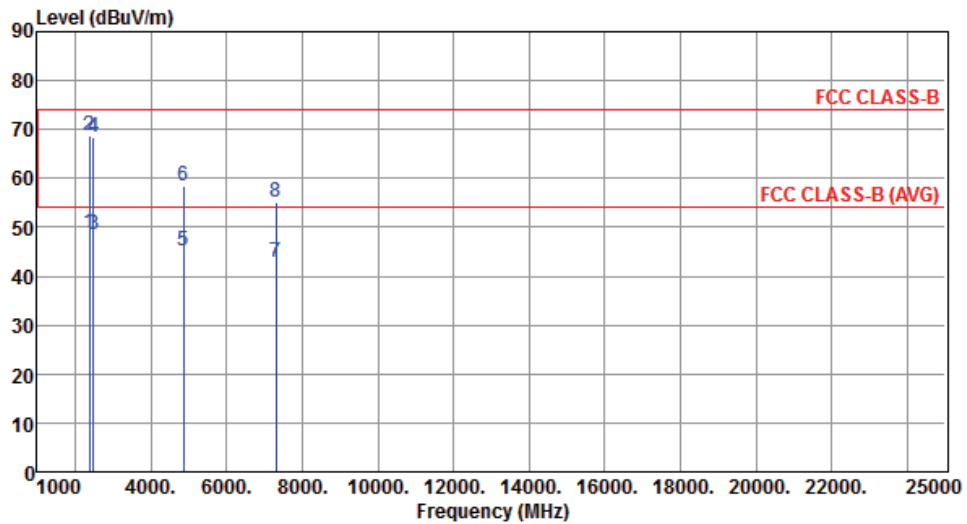
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.63	54.00	-3.37	54.31	-3.68	Average	---	---
2	2390.00	68.85	74.00	-5.15	72.53	-3.68	Peak	---	---
3	2483.50	49.01	54.00	-4.99	52.31	-3.30	Average	---	---
4	2483.50	68.37	74.00	-5.63	71.67	-3.30	Peak	---	---
5	4874.00	39.56	54.00	-14.44	34.46	5.10	Average	---	---
6	4874.00	54.89	74.00	-19.11	49.79	5.10	Peak	---	---
7	7311.00	38.68	54.00	-15.32	29.35	9.33	Average	---	---
8	7311.00	50.91	74.00	-23.09	41.58	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



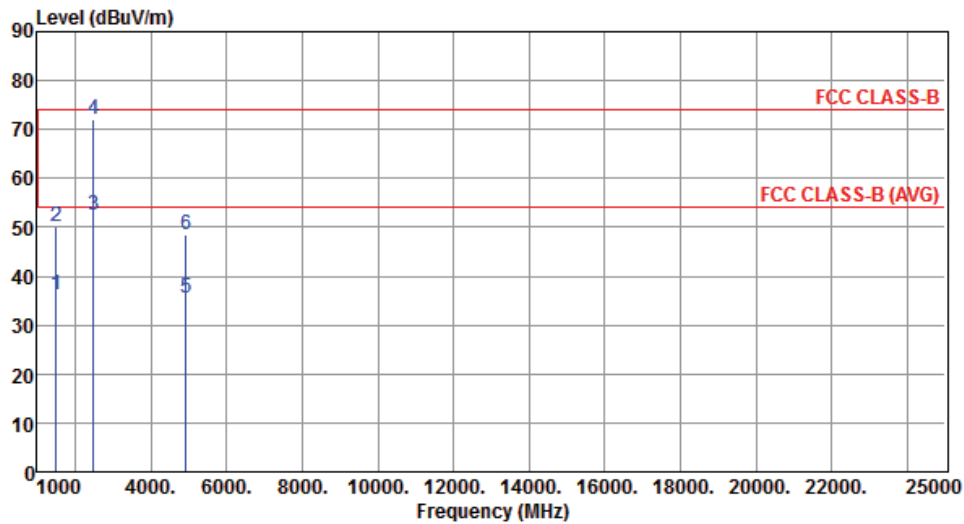
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	48.97	54.00	-5.03	52.65	-3.68	Average	---	---
2	2390.00	68.59	74.00	-5.41	72.27	-3.68	Peak	---	---
3	2483.50	48.55	54.00	-5.45	51.85	-3.30	Average	---	---
4	2483.50	68.46	74.00	-5.54	71.76	-3.30	Peak	---	---
5	4874.00	45.12	54.00	-8.88	40.02	5.10	Average	---	---
6	4874.00	58.47	74.00	-15.53	53.37	5.10	Peak	---	---
7	7311.00	42.92	54.00	-11.08	33.59	9.33	Average	---	---
8	7311.00	55.26	74.00	-18.74	45.93	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



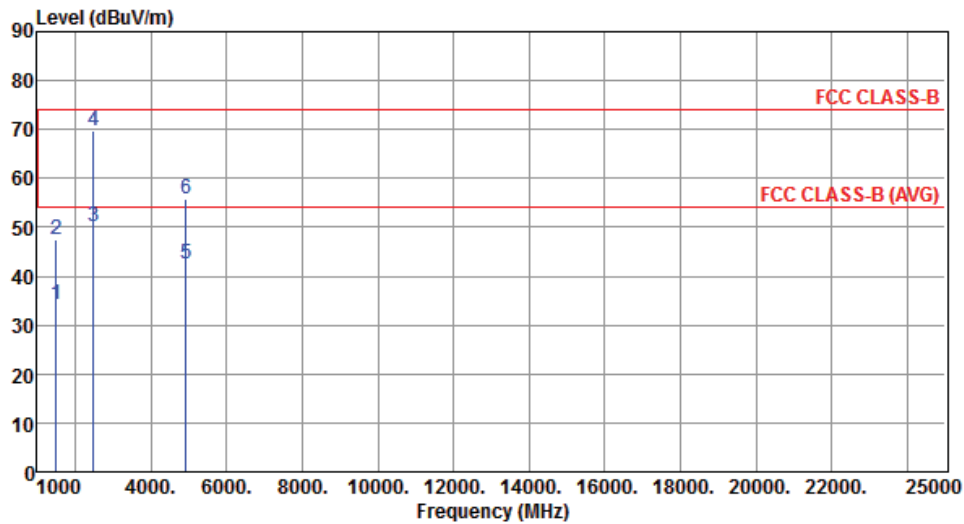
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.21	54.00	-17.79	43.34	-7.13	Average	---	---
2	1500.00	50.02	74.00	-23.98	57.15	-7.13	Peak	---	---
3	2483.50	52.47	54.00	-1.53	55.77	-3.30	Average	---	---
4	2483.50	71.93	74.00	-2.07	75.23	-3.30	Peak	---	---
5	4924.00	35.63	54.00	-18.37	30.43	5.20	Average	---	---
6	4924.00	48.52	74.00	-25.48	43.32	5.20	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



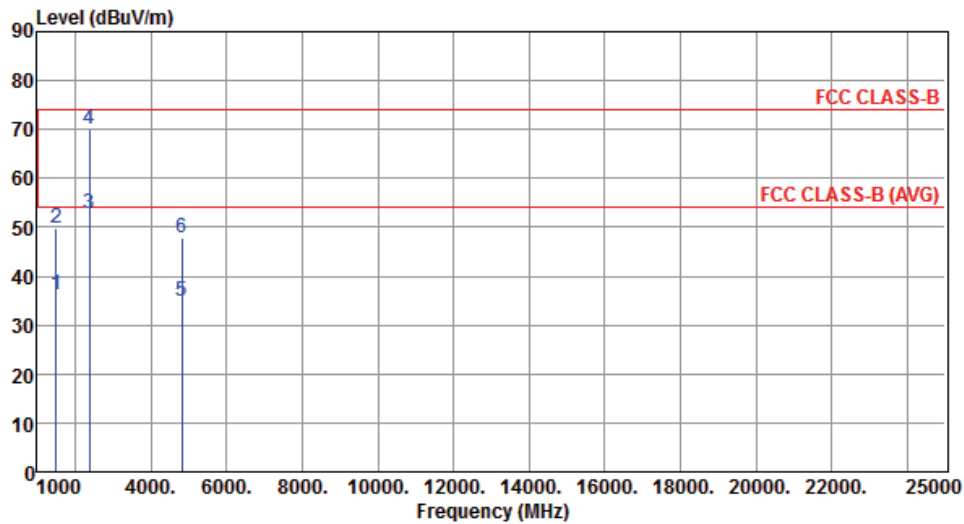
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.12	54.00	-19.88	41.25	-7.13	Average	---	---
2	1500.00	47.46	74.00	-26.54	54.59	-7.13	Peak	---	---
3	2483.50	50.24	54.00	-3.76	53.54	-3.30	Average	---	---
4	2483.50	69.88	74.00	-4.12	73.18	-3.30	Peak	---	---
5	4924.00	42.43	54.00	-11.57	37.23	5.20	Average	---	---
6	4924.00	55.80	74.00	-18.20	50.60	5.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



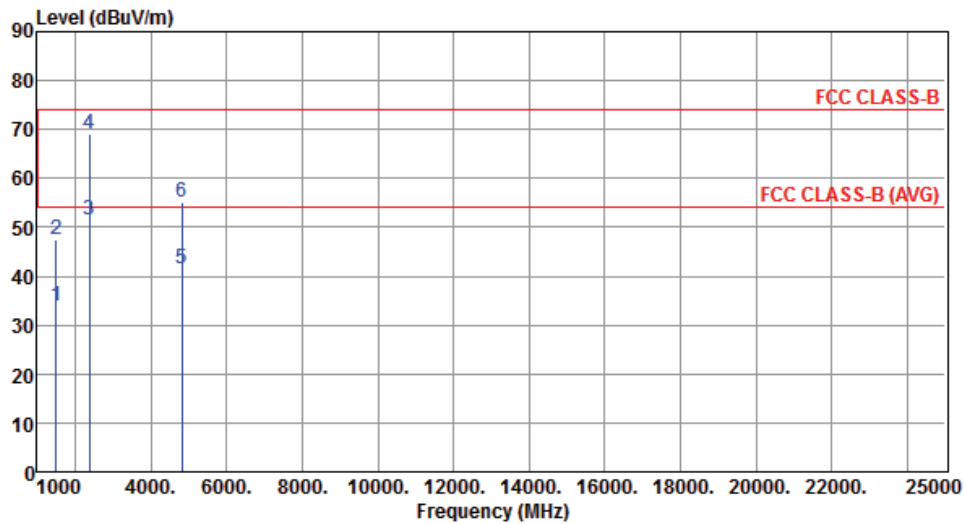
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.13	54.00	-17.87	43.26	-7.13	Average	---	---
2	1500.00	49.95	74.00	-24.05	57.08	-7.13	Peak	---	---
3	2390.00	52.79	54.00	-1.21	56.47	-3.68	Average	---	---
4	2390.00	70.11	74.00	-3.89	73.79	-3.68	Peak	---	---
5	4824.00	34.91	54.00	-19.09	29.92	4.99	Average	---	---
6	4824.00	47.96	74.00	-26.04	42.97	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



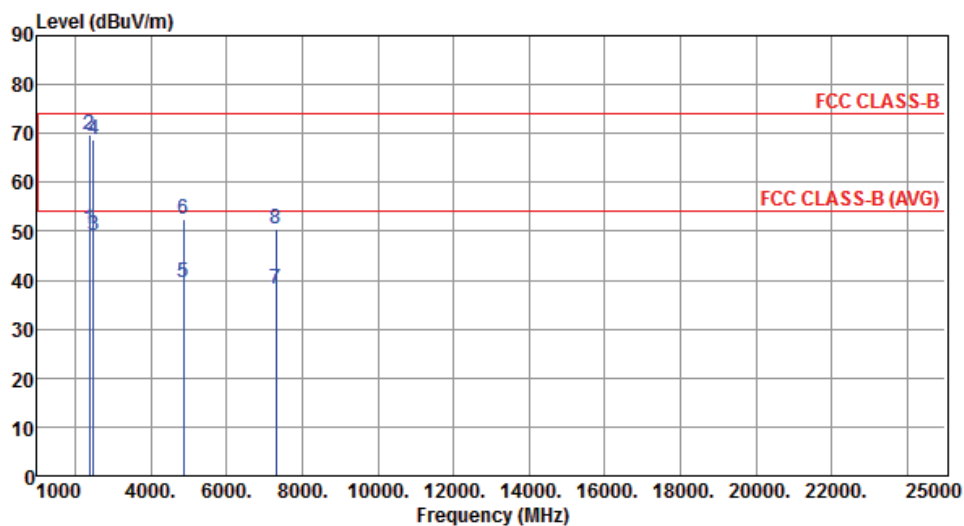
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.02	54.00	-19.98	41.15	-7.13	Average	---	---
2	1500.00	47.43	74.00	-26.57	54.56	-7.13	Peak	---	---
3	2390.00	51.60	54.00	-2.40	55.28	-3.68	Average	---	---
4	2390.00	69.02	74.00	-4.98	72.70	-3.68	Peak	---	---
5	4824.00	41.55	54.00	-12.45	36.56	4.99	Average	---	---
6	4824.00	54.97	74.00	-19.03	49.98	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



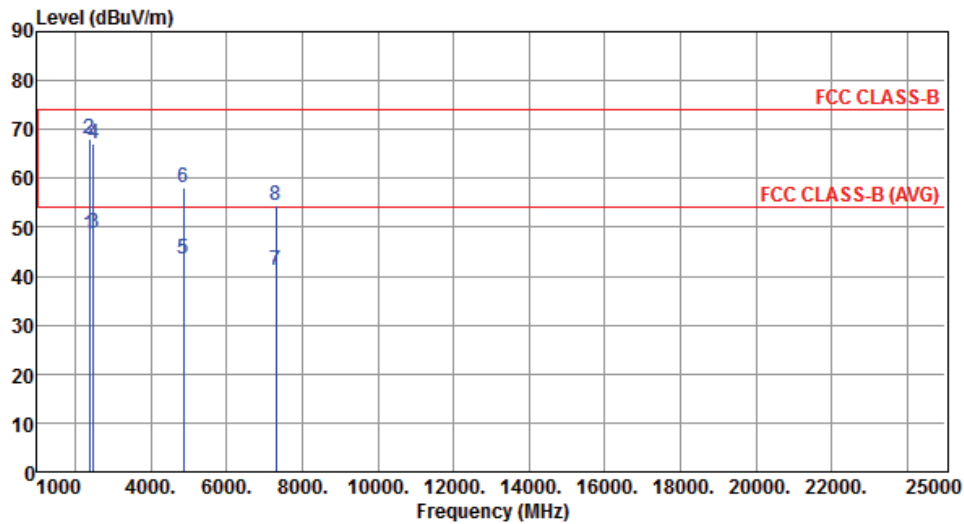
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.45	54.00	-3.55	54.13	-3.68	Average	---	---
2	2390.00	69.65	74.00	-4.35	73.33	-3.68	Peak	---	---
3	2483.50	49.31	54.00	-4.69	52.61	-3.30	Average	---	---
4	2483.50	68.86	74.00	-5.14	72.16	-3.30	Peak	---	---
5	4874.00	39.44	54.00	-14.56	34.34	5.10	Average	---	---
6	4874.00	52.58	74.00	-21.42	47.48	5.10	Peak	---	---
7	7311.00	38.03	54.00	-15.97	28.70	9.33	Average	---	---
8	7311.00	50.43	74.00	-23.57	41.10	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



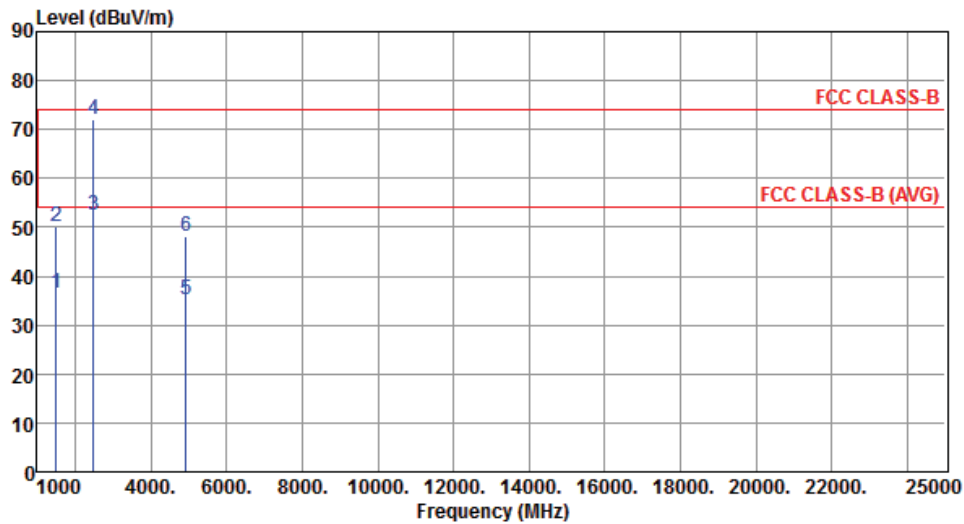
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	48.41	54.00	-5.59	52.09	-3.68	Average	---	---
2	2390.00	67.94	74.00	-6.06	71.62	-3.68	Peak	---	---
3	2483.50	48.81	54.00	-5.19	52.11	-3.30	Average	---	---
4	2483.50	67.22	74.00	-6.78	70.52	-3.30	Peak	---	---
5	4874.00	43.35	54.00	-10.65	38.25	5.10	Average	---	---
6	4874.00	58.05	74.00	-15.95	52.95	5.10	Peak	---	---
7	7311.00	41.34	54.00	-12.66	32.01	9.33	Average	---	---
8	7311.00	54.34	74.00	-19.66	45.01	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



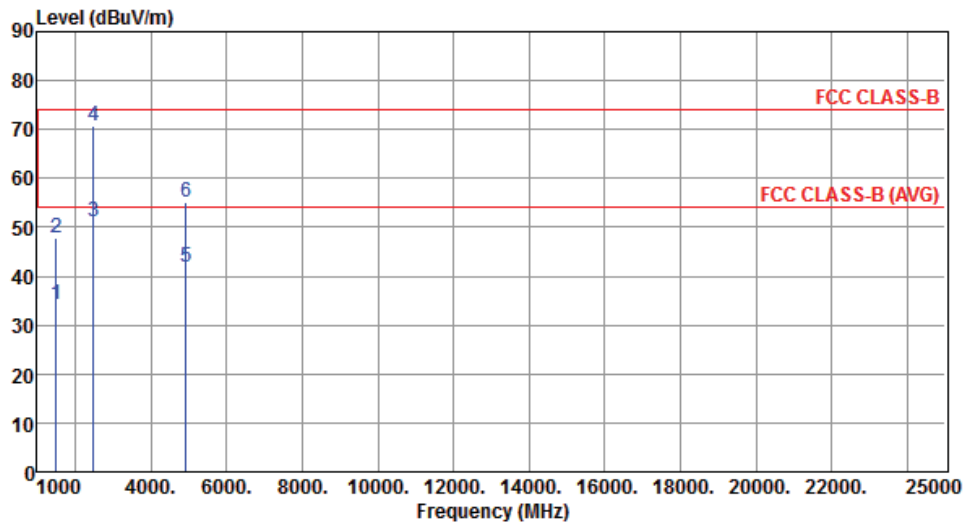
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.43	54.00	-17.57	43.56	-7.13	Average	---	---
2	1500.00	50.21	74.00	-23.79	57.34	-7.13	Peak	---	---
3	2483.50	52.39	54.00	-1.61	55.69	-3.30	Average	---	---
4	2483.50	72.09	74.00	-1.91	75.39	-3.30	Peak	---	---
5	4924.00	35.17	54.00	-18.83	29.97	5.20	Average	---	---
6	4924.00	48.24	74.00	-25.76	43.04	5.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



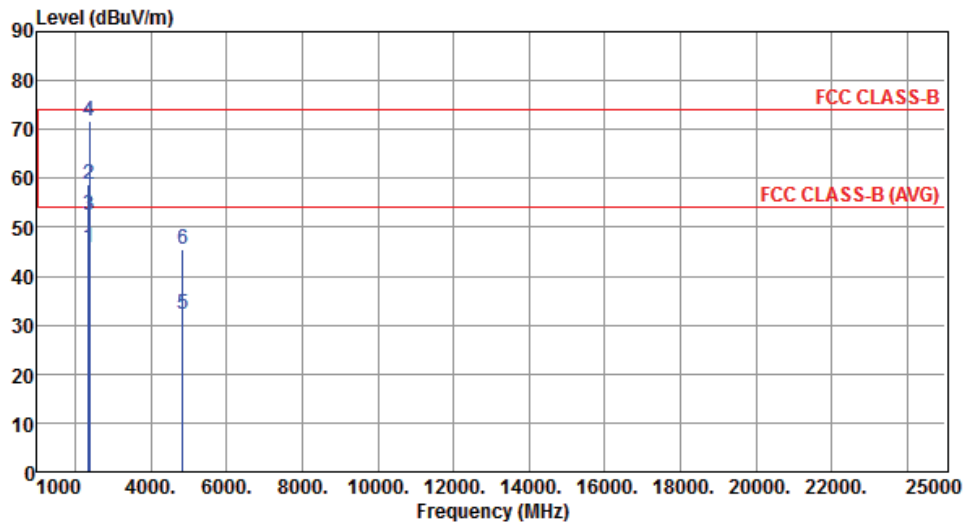
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.27	54.00	-19.73	41.40	-7.13	Average	---	---
2	1500.00	47.80	74.00	-26.20	54.93	-7.13	Peak	---	---
3	2483.50	51.12	54.00	-2.88	54.42	-3.30	Average	---	---
4	2483.50	70.85	74.00	-3.15	74.15	-3.30	Peak	---	---
5	4924.00	41.86	54.00	-12.14	36.66	5.20	Average	---	---
6	4924.00	55.22	74.00	-18.78	50.02	5.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	1



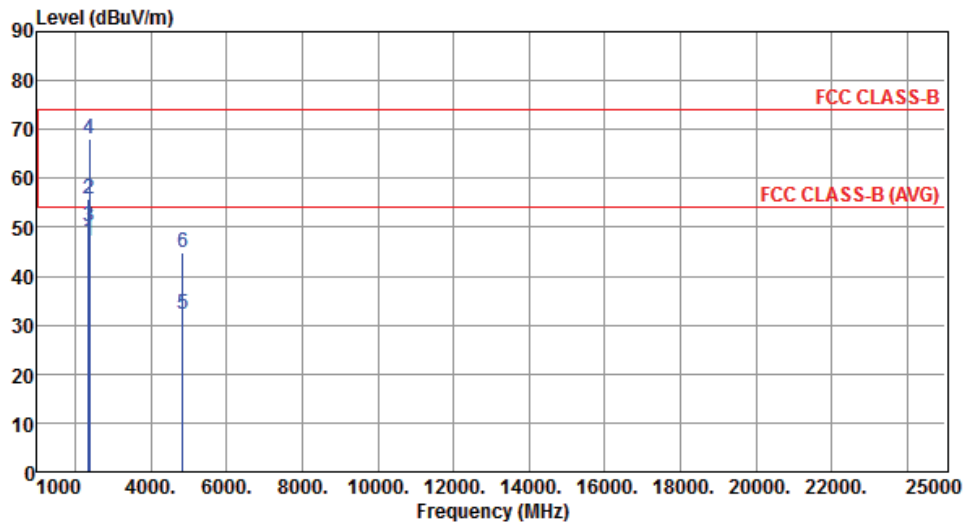
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	45.76	54.00	-8.24	49.57	-3.81	Average	---	---
2	2360.00	58.92	74.00	-15.08	62.73	-3.81	Peak	---	---
3	2390.00	52.44	54.00	-1.56	56.12	-3.68	Average	---	---
4	2390.00	71.59	74.00	-2.41	75.27	-3.68	Peak	---	---
5	4844.00	32.23	54.00	-21.77	27.20	5.03	Average	---	---
6	4844.00	45.44	74.00	-28.56	40.41	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	1



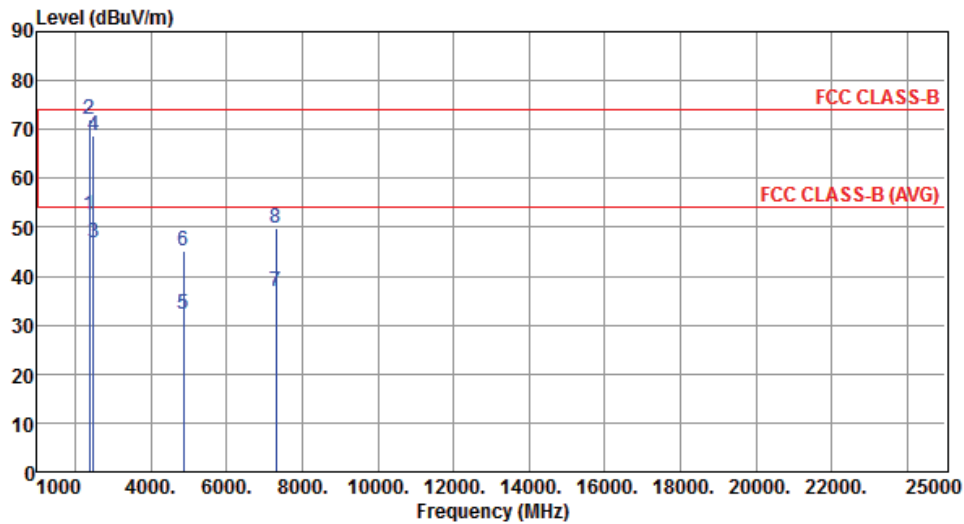
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	47.18	54.00	-6.82	50.99	-3.81	Average	---	---
2	2360.00	55.93	74.00	-18.07	59.74	-3.81	Peak	---	---
3	2390.00	50.25	54.00	-3.75	53.93	-3.68	Average	---	---
4	2390.00	67.93	74.00	-6.07	71.61	-3.68	Peak	---	---
5	4844.00	32.12	54.00	-21.88	27.09	5.03	Average	---	---
6	4844.00	44.68	74.00	-29.32	39.65	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



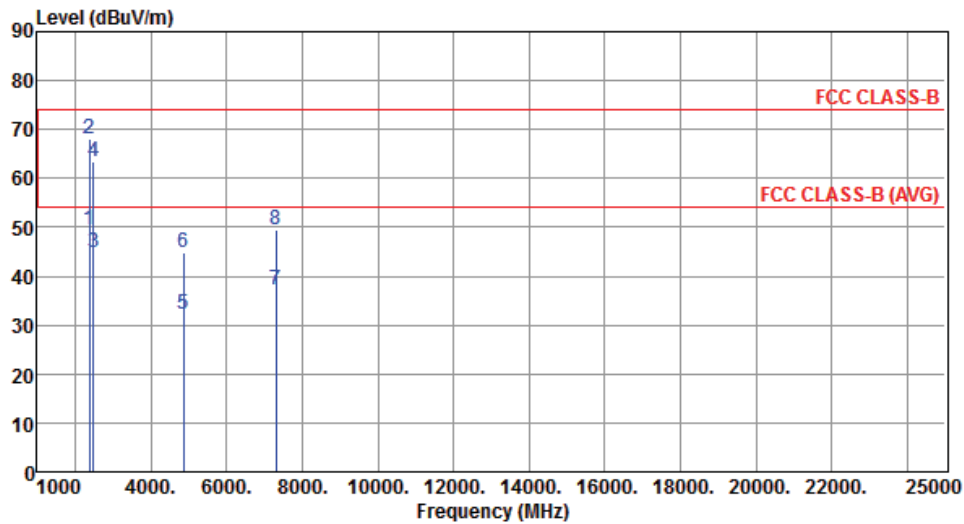
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	52.45	54.00	-1.55	56.13	-3.68	Average	---	---
2	2390.00	71.98	74.00	-2.02	75.66	-3.68	Peak	---	---
3	2483.50	46.78	54.00	-7.22	50.08	-3.30	Average	---	---
4	2483.50	68.80	74.00	-5.20	72.10	-3.30	Peak	---	---
5	4874.00	32.18	54.00	-21.82	27.08	5.10	Average	---	---
6	4874.00	45.27	74.00	-28.73	40.17	5.10	Peak	---	---
7	7311.00	37.00	54.00	-17.00	27.67	9.33	Average	---	---
8	7311.00	49.69	74.00	-24.31	40.36	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



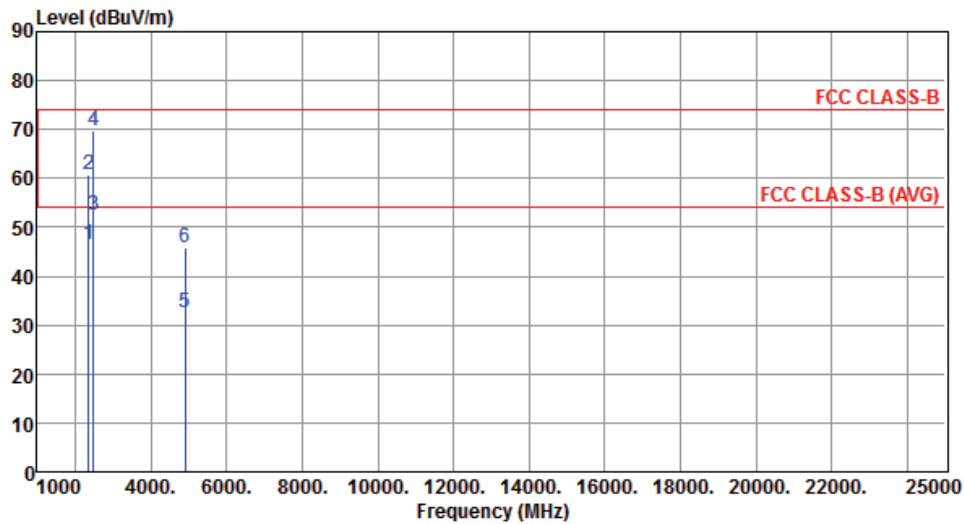
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.41	54.00	-4.59	53.09	-3.68	Average	---	---
2	2390.00	67.97	74.00	-6.03	71.65	-3.68	Peak	---	---
3	2483.50	44.91	54.00	-9.09	48.21	-3.30	Average	---	---
4	2483.50	63.43	74.00	-10.57	66.73	-3.30	Peak	---	---
5	4874.00	32.16	54.00	-21.84	27.06	5.10	Average	---	---
6	4874.00	44.92	74.00	-29.08	39.82	5.10	Peak	---	---
7	7311.00	37.06	54.00	-16.94	27.73	9.33	Average	---	---
8	7311.00	49.59	74.00	-24.41	40.26	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	1



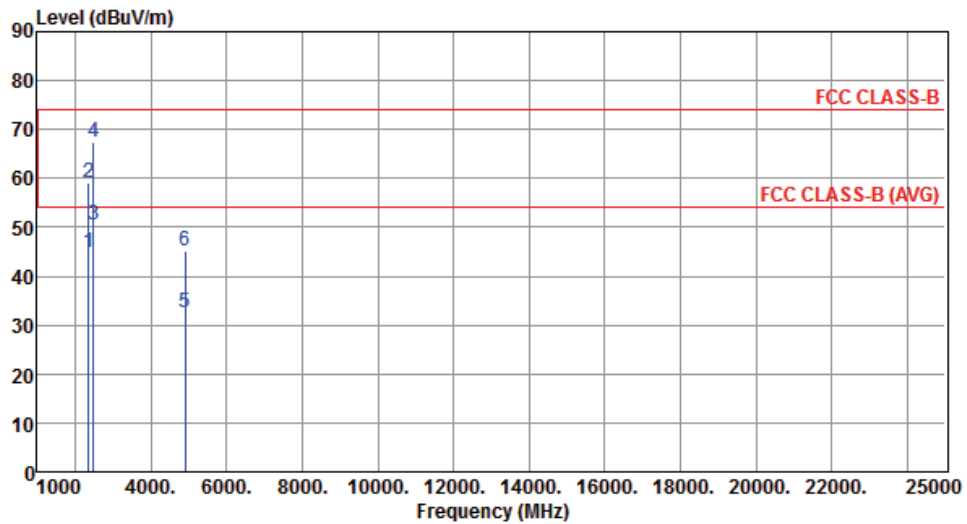
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	46.62	54.00	-7.38	50.43	-3.81	Average	---	---
2	2360.00	60.74	74.00	-13.26	64.55	-3.81	Peak	---	---
3	2483.50	52.58	54.00	-1.42	55.88	-3.30	Average	---	---
4	2483.50	69.74	74.00	-4.26	73.04	-3.30	Peak	---	---
5	4904.00	32.43	54.00	-21.57	27.27	5.16	Average	---	---
6	4904.00	45.70	74.00	-28.30	40.54	5.16	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	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	2360.00	44.85	54.00	-9.15	48.66	-3.81	Average	---	---
2	2360.00	58.96	74.00	-15.04	62.77	-3.81	Peak	---	---
3	2483.50	50.43	54.00	-3.57	53.73	-3.30	Average	---	---
4	2483.50	67.48	74.00	-6.52	70.78	-3.30	Peak	---	---
5	4904.00	32.50	54.00	-21.50	27.34	5.16	Average	---	---
6	4904.00	45.17	74.00	-28.83	40.01	5.16	Peak	---	---

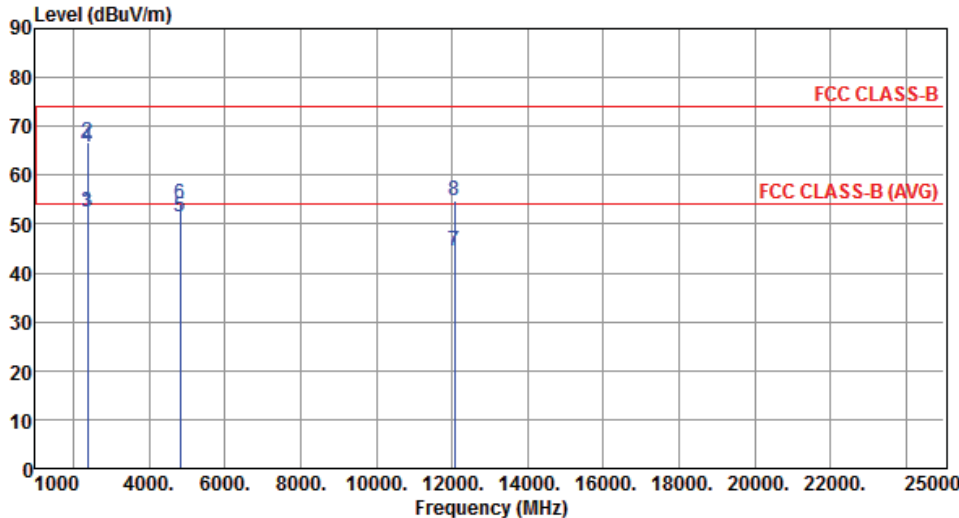
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) (Configuration 2: External Dipole antenna)

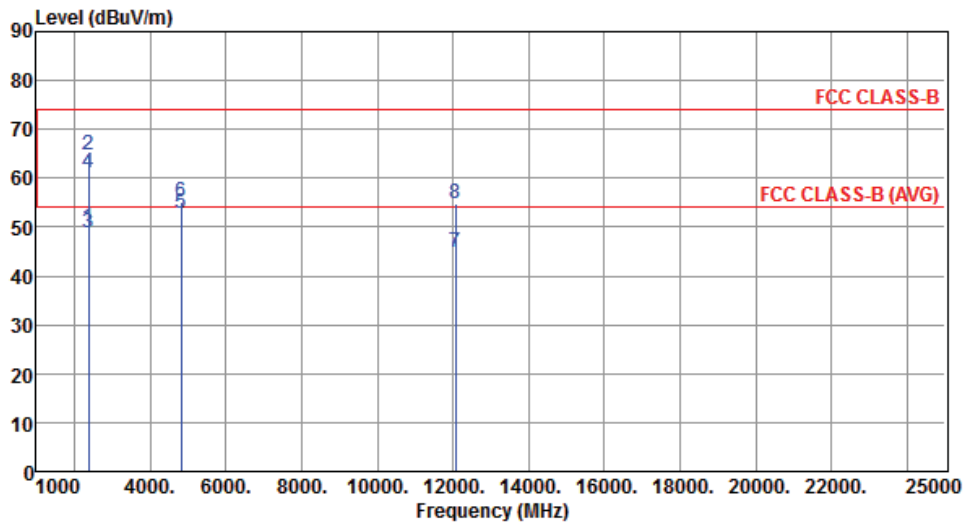
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2371.00	52.38	54.00	-1.62	56.14	-3.76	Average	---	---
2	2371.00	66.72	74.00	-7.28	70.48	-3.76	Peak	---	---
3	2390.00	52.59	54.00	-1.41	56.27	-3.68	Average	---	---
4	2390.00	65.86	74.00	-8.14	69.54	-3.68	Peak	---	---
5	4824.00	51.49	54.00	-2.51	46.50	4.99	Average	---	---
6	4824.00	54.13	74.00	-19.87	49.14	4.99	Peak	---	---
7	12060.00	44.53	54.00	-9.47	30.56	13.97	Average	---	---
8	12060.00	54.70	74.00	-19.30	40.73	13.97	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



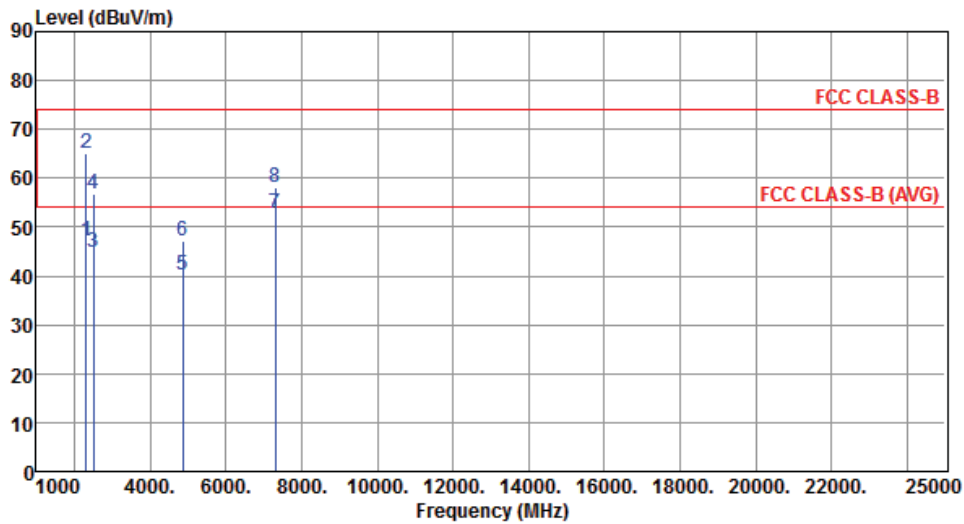
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2371.00	49.77	54.00	-4.23	53.53	-3.76	Average	---	---
2	2371.00	64.72	74.00	-9.28	68.48	-3.76	Peak	---	---
3	2390.00	48.84	54.00	-5.16	52.52	-3.68	Average	---	---
4	2390.00	61.22	74.00	-12.78	64.90	-3.68	Peak	---	---
5	4824.00	52.70	54.00	-1.30	47.71	4.99	Average	---	---
6	4824.00	55.16	74.00	-18.84	50.17	4.99	Peak	---	---
7	12060.00	44.68	54.00	-9.32	30.71	13.97	Average	---	---
8	12060.00	54.76	74.00	-19.24	40.79	13.97	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



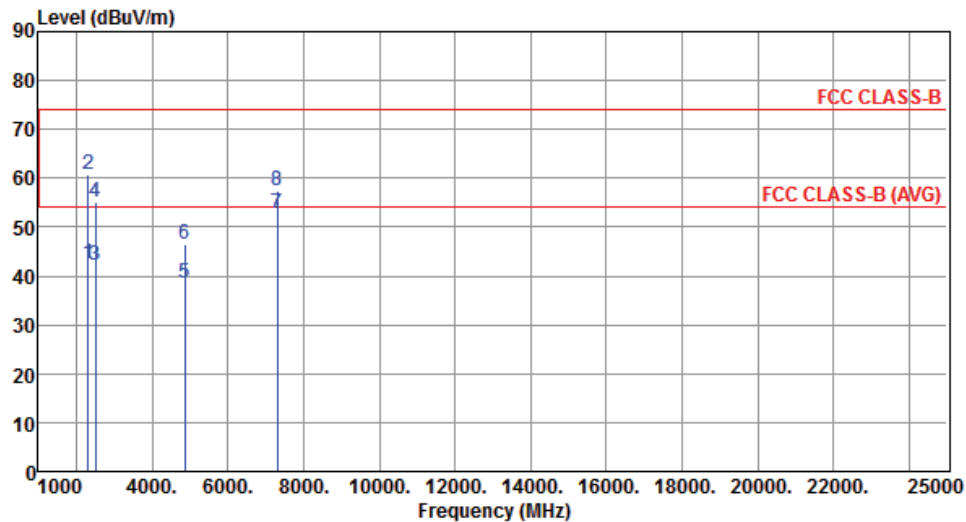
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	47.27	54.00	-6.73	51.23	-3.96	Average	---	---
2	2320.00	65.17	74.00	-8.83	69.13	-3.96	Peak	---	---
3	2500.00	44.97	54.00	-9.03	48.20	-3.23	Average	---	---
4	2500.00	56.65	74.00	-17.35	59.88	-3.23	Peak	---	---
5	4874.00	40.11	54.00	-13.89	35.01	5.10	Average	---	---
6	4874.00	47.15	74.00	-26.85	42.05	5.10	Peak	---	---
7	7311.00	52.96	54.00	-1.04	43.63	9.33	Average	---	---
8	7311.00	58.16	74.00	-15.84	48.83	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



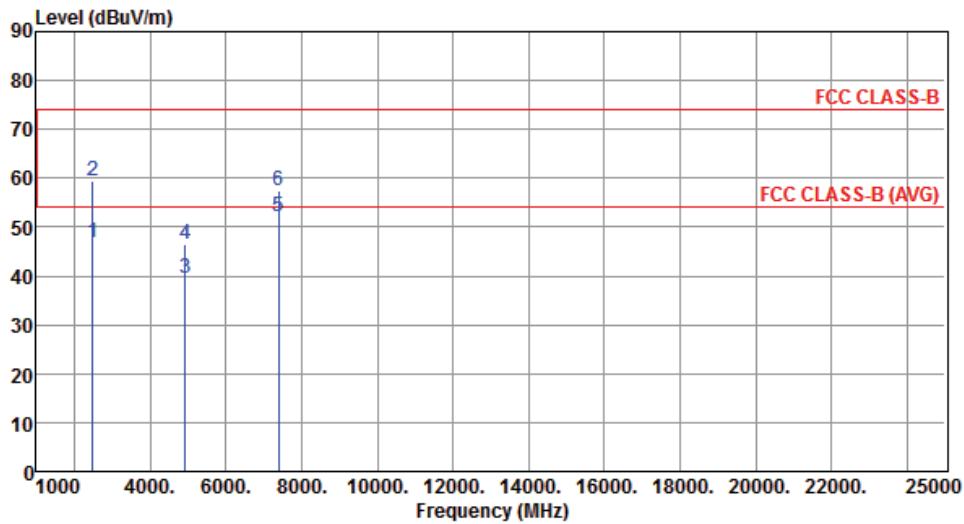
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	42.38	54.00	-11.62	46.34	-3.96	Average	---	---
2	2320.00	60.68	74.00	-13.32	64.64	-3.96	Peak	---	---
3	2500.00	42.02	54.00	-11.98	45.25	-3.23	Average	---	---
4	2500.00	55.15	74.00	-18.85	58.38	-3.23	Peak	---	---
5	4874.00	38.47	54.00	-15.53	33.37	5.10	Average	---	---
6	4874.00	46.57	74.00	-27.43	41.47	5.10	Peak	---	---
7	7311.00	52.71	54.00	-1.29	43.38	9.33	Average	---	---
8	7311.00	57.57	74.00	-16.43	48.24	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



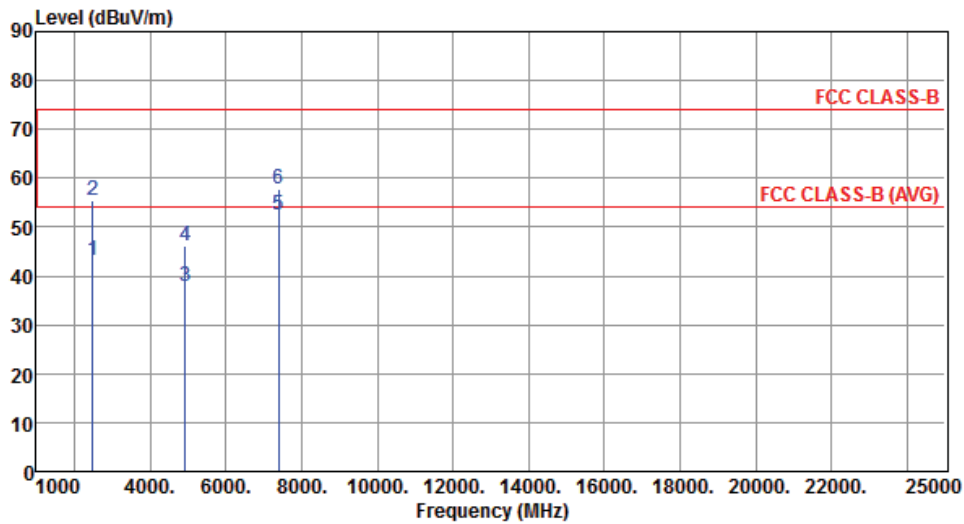
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	46.80	54.00	-7.20	50.10	-3.30	Average	---	---
2	2483.50	59.32	74.00	-14.68	62.62	-3.30	Peak	---	---
3	4924.00	39.61	54.00	-14.39	34.41	5.20	Average	---	---
4	4924.00	46.58	74.00	-27.42	41.38	5.20	Peak	---	---
5	7386.00	52.24	54.00	-1.76	42.85	9.39	Average	---	---
6	7386.00	57.55	74.00	-16.45	48.16	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



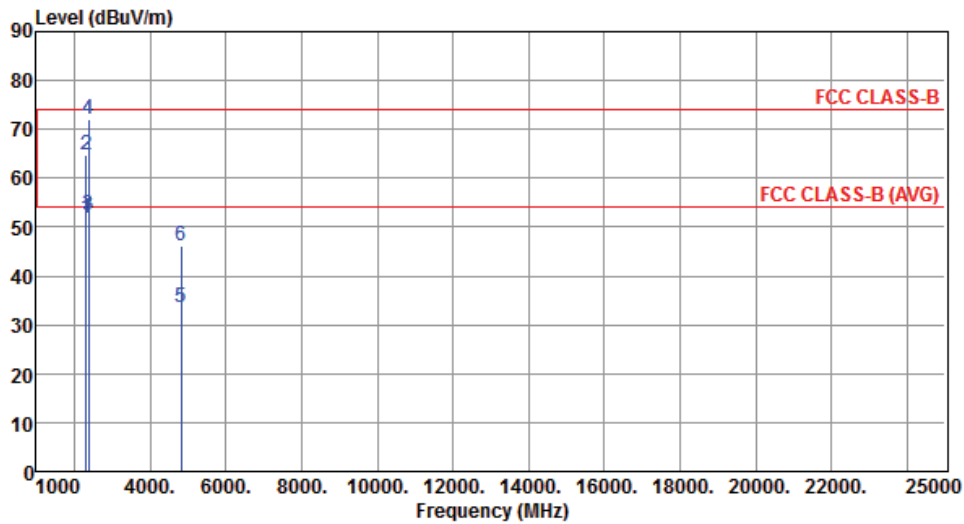
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	43.11	54.00	-10.89	46.41	-3.30	Average	---	---
2	2483.50	55.55	74.00	-18.45	58.85	-3.30	Peak	---	---
3	4924.00	37.88	54.00	-16.12	32.68	5.20	Average	---	---
4	4924.00	46.03	74.00	-27.97	40.83	5.20	Peak	---	---
5	7386.00	52.33	54.00	-1.67	42.94	9.39	Average	---	---
6	7386.00	57.81	74.00	-16.19	48.42	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



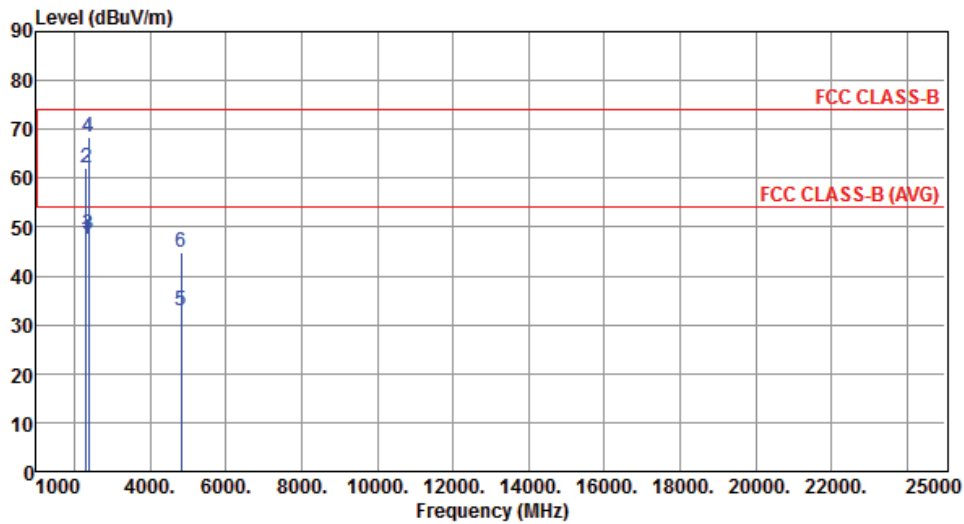
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.94	54.00	-2.06	55.90	-3.96	Average	---	---
2	2320.00	64.80	74.00	-9.20	68.76	-3.96	Peak	---	---
3	2390.00	52.39	54.00	-1.61	56.07	-3.68	Average	---	---
4	2390.00	71.94	74.00	-2.06	75.62	-3.68	Peak	---	---
5	4824.00	33.42	54.00	-20.58	28.43	4.99	Average	---	---
6	4824.00	46.11	74.00	-27.89	41.12	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



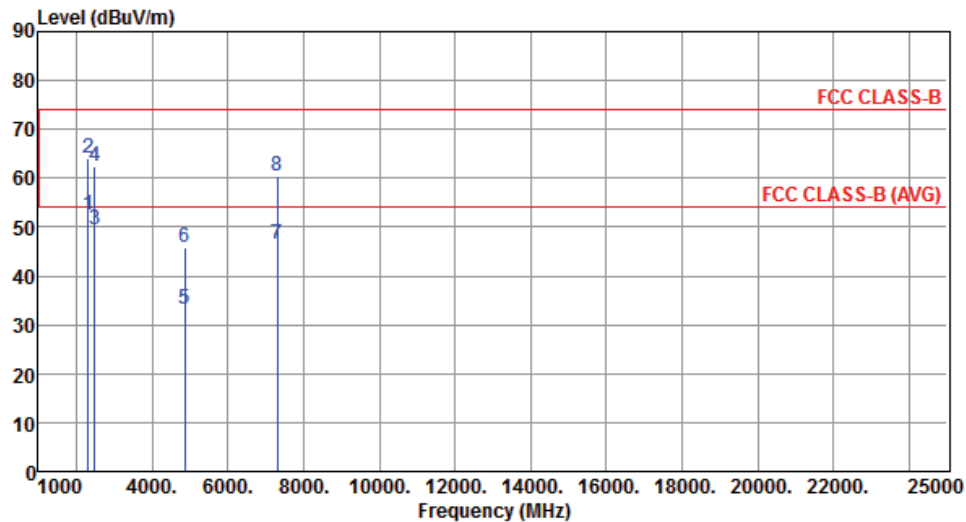
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	47.54	54.00	-6.46	51.50	-3.96	Average	---	---
2	2320.00	62.03	74.00	-11.97	65.99	-3.96	Peak	---	---
3	2390.00	48.50	54.00	-5.50	52.18	-3.68	Average	---	---
4	2390.00	68.47	74.00	-5.53	72.15	-3.68	Peak	---	---
5	4824.00	32.97	54.00	-21.03	27.98	4.99	Average	---	---
6	4824.00	44.68	74.00	-29.32	39.69	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



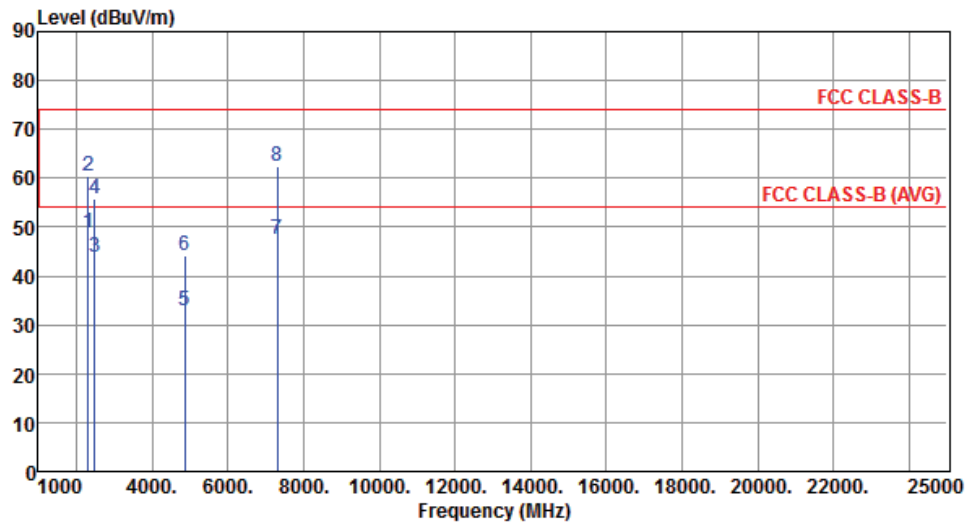
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	52.36	54.00	-1.64	56.32	-3.96	Average	---	---
2	2320.00	64.24	74.00	-9.76	68.20	-3.96	Peak	---	---
3	2483.50	49.54	54.00	-4.46	52.84	-3.30	Average	---	---
4	2483.50	62.37	74.00	-11.63	65.67	-3.30	Peak	---	---
5	4874.00	33.09	54.00	-20.91	27.99	5.10	Average	---	---
6	4874.00	45.72	74.00	-28.28	40.62	5.10	Peak	---	---
7	7311.00	46.44	54.00	-7.56	37.11	9.33	Average	---	---
8	7311.00	60.33	74.00	-13.67	51.00	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



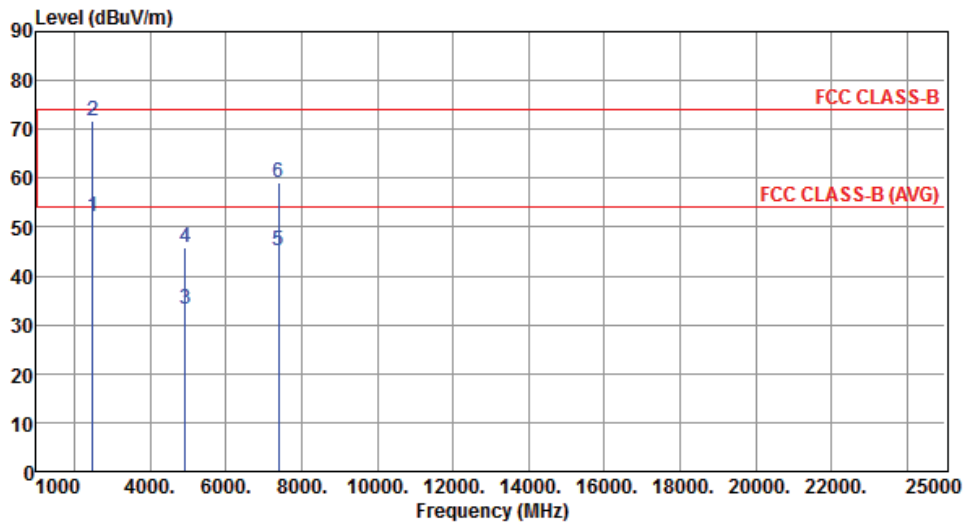
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	48.91	54.00	-5.09	52.87	-3.96	Average	---	---
2	2320.00	60.37	74.00	-13.63	64.33	-3.96	Peak	---	---
3	2483.50	43.68	54.00	-10.32	46.98	-3.30	Average	---	---
4	2483.50	55.89	74.00	-18.11	59.19	-3.30	Peak	---	---
5	4874.00	32.72	54.00	-21.28	27.62	5.10	Average	---	---
6	4874.00	44.25	74.00	-29.75	39.15	5.10	Peak	---	---
7	7311.00	47.63	54.00	-6.37	38.30	9.33	Average	---	---
8	7311.00	62.34	74.00	-11.66	53.01	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



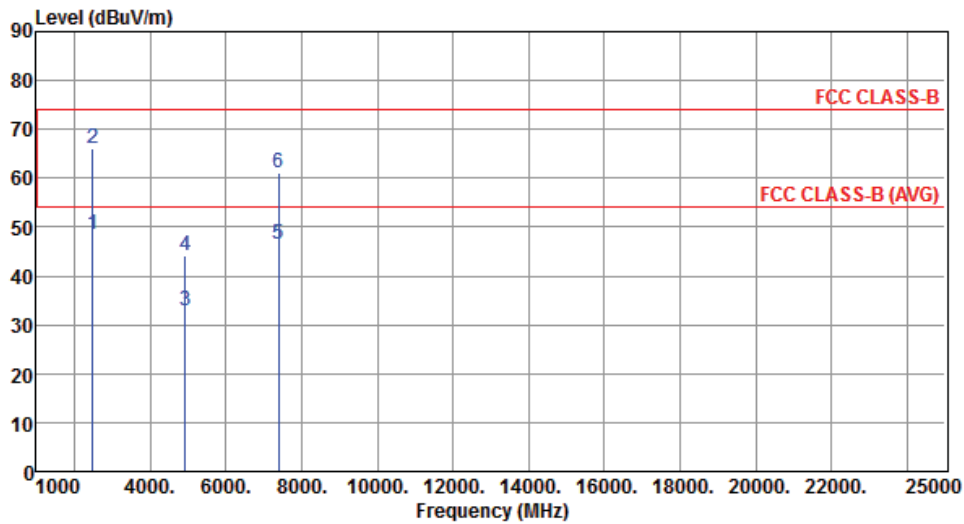
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.21	54.00	-1.79	55.51	-3.30	Average	---	---
2	2483.50	71.68	74.00	-2.32	74.98	-3.30	Peak	---	---
3	4924.00	33.17	54.00	-20.83	27.97	5.20	Average	---	---
4	4924.00	45.88	74.00	-28.12	40.68	5.20	Peak	---	---
5	7386.00	45.28	54.00	-8.72	35.89	9.39	Average	---	---
6	7386.00	59.17	74.00	-14.83	49.78	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



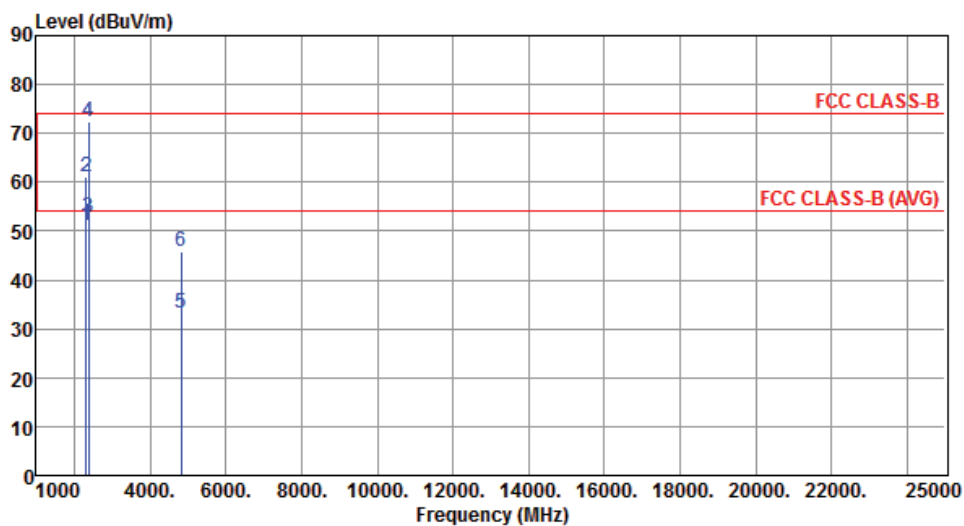
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	48.54	54.00	-5.46	51.84	-3.30	Average	---	---
2	2483.50	66.12	74.00	-7.88	69.42	-3.30	Peak	---	---
3	4924.00	32.72	54.00	-21.28	27.52	5.20	Average	---	---
4	4924.00	44.01	74.00	-29.99	38.81	5.20	Peak	---	---
5	7386.00	46.38	54.00	-7.62	36.99	9.39	Average	---	---
6	7386.00	61.27	74.00	-12.73	51.88	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



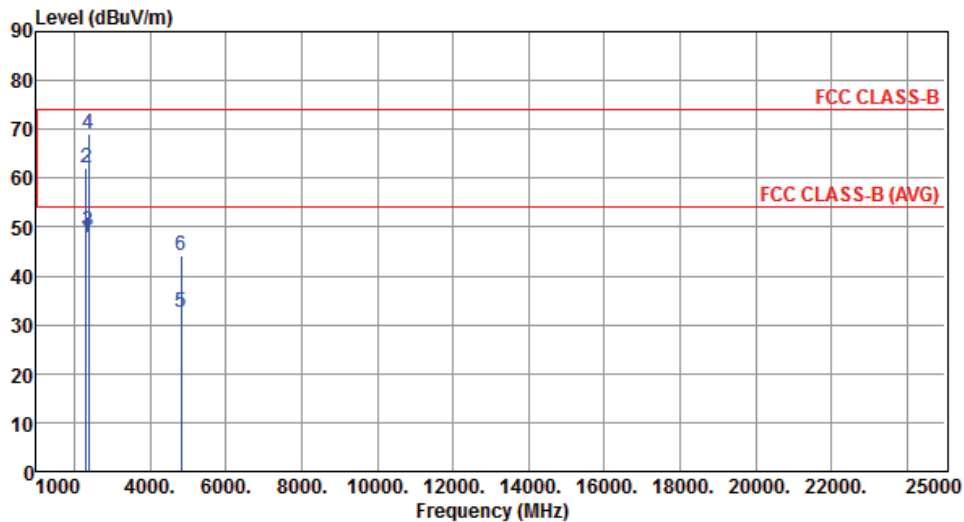
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.28	54.00	-2.72	55.24	-3.96	Average	---	---
2	2320.00	61.14	74.00	-12.86	65.10	-3.96	Peak	---	---
3	2390.00	52.79	54.00	-1.21	56.47	-3.68	Average	---	---
4	2390.00	72.26	74.00	-1.74	75.94	-3.68	Peak	---	---
5	4824.00	33.18	54.00	-20.82	28.19	4.99	Average	---	---
6	4824.00	45.97	74.00	-28.03	40.98	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



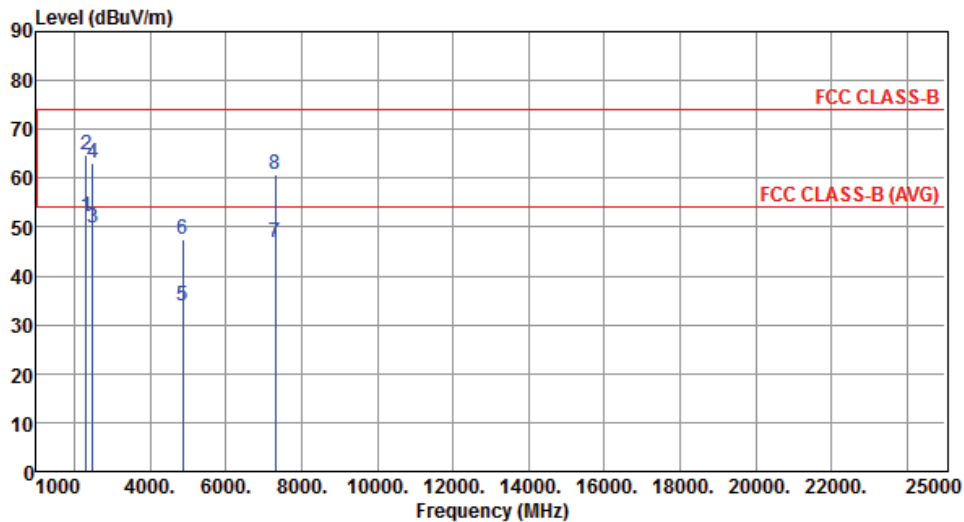
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	47.91	54.00	-6.09	51.87	-3.96	Average	---	---
2	2320.00	62.25	74.00	-11.75	66.21	-3.96	Peak	---	---
3	2390.00	49.04	54.00	-4.96	52.72	-3.68	Average	---	---
4	2390.00	69.01	74.00	-4.99	72.69	-3.68	Peak	---	---
5	4824.00	32.69	54.00	-21.31	27.70	4.99	Average	---	---
6	4824.00	44.28	74.00	-29.72	39.29	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



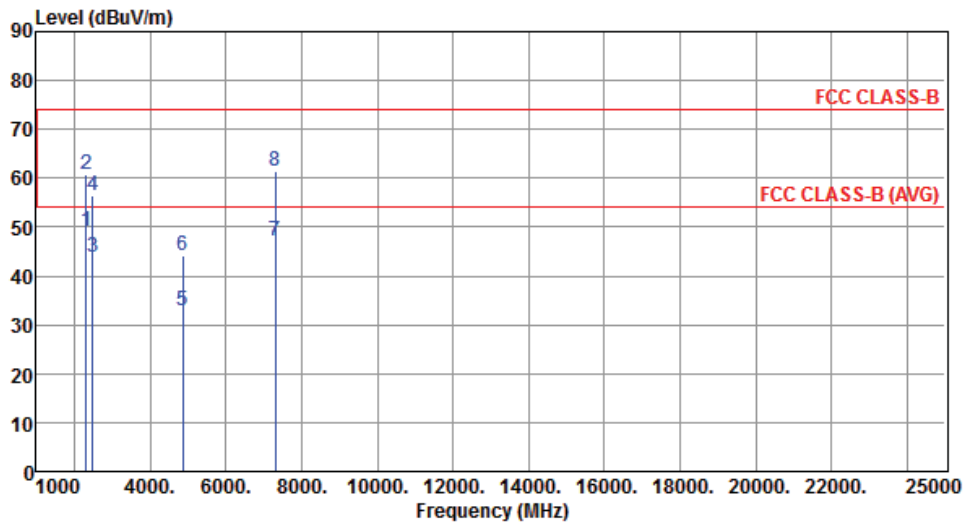
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	52.16	54.00	-1.84	56.12	-3.96	Average	---	---
2	2320.00	64.65	74.00	-9.35	68.61	-3.96	Peak	---	---
3	2483.50	49.78	54.00	-4.22	53.08	-3.30	Average	---	---
4	2483.50	63.17	74.00	-10.83	66.47	-3.30	Peak	---	---
5	4874.00	33.76	54.00	-20.24	28.66	5.10	Average	---	---
6	4874.00	47.58	74.00	-26.42	42.48	5.10	Peak	---	---
7	7311.00	46.73	54.00	-7.27	37.40	9.33	Average	---	---
8	7311.00	60.67	74.00	-13.33	51.34	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



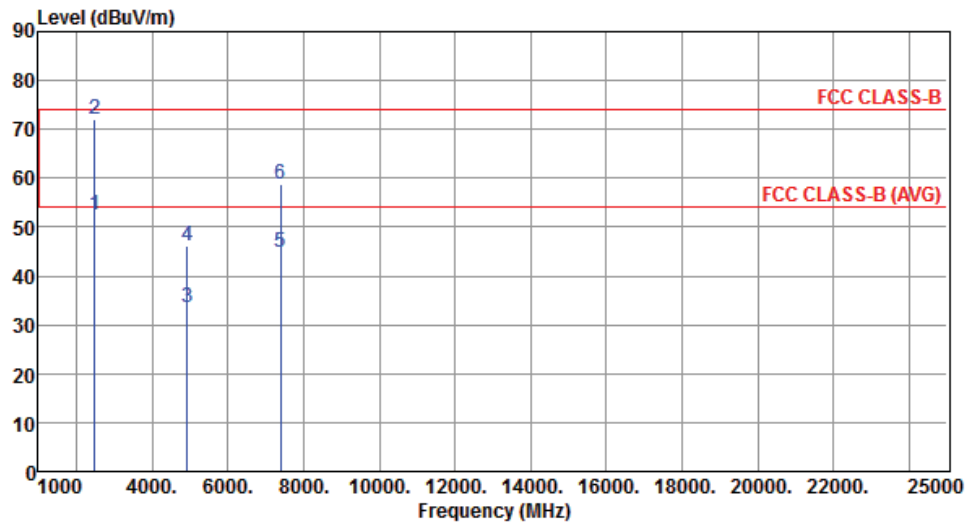
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	49.31	54.00	-4.69	53.27	-3.96	Average	---	---
2	2320.00	60.76	74.00	-13.24	64.72	-3.96	Peak	---	---
3	2483.50	43.97	54.00	-10.03	47.27	-3.30	Average	---	---
4	2483.50	56.55	74.00	-17.45	59.85	-3.30	Peak	---	---
5	4874.00	32.72	54.00	-21.28	27.62	5.10	Average	---	---
6	4874.00	44.25	74.00	-29.75	39.15	5.10	Peak	---	---
7	7311.00	47.30	54.00	-6.70	37.97	9.33	Average	---	---
8	7311.00	61.42	74.00	-12.58	52.09	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



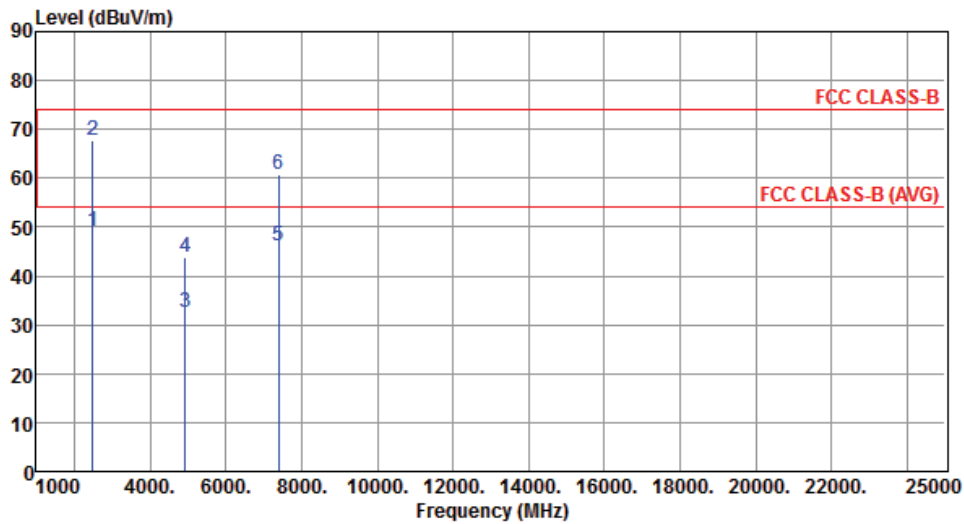
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.39	54.00	-1.61	55.69	-3.30	Average	---	---
2	2483.50	71.98	74.00	-2.02	75.28	-3.30	Peak	---	---
3	4924.00	33.53	54.00	-20.47	28.33	5.20	Average	---	---
4	4924.00	46.08	74.00	-27.92	40.88	5.20	Peak	---	---
5	7386.00	44.94	54.00	-9.06	35.55	9.39	Average	---	---
6	7386.00	58.78	74.00	-15.22	49.39	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



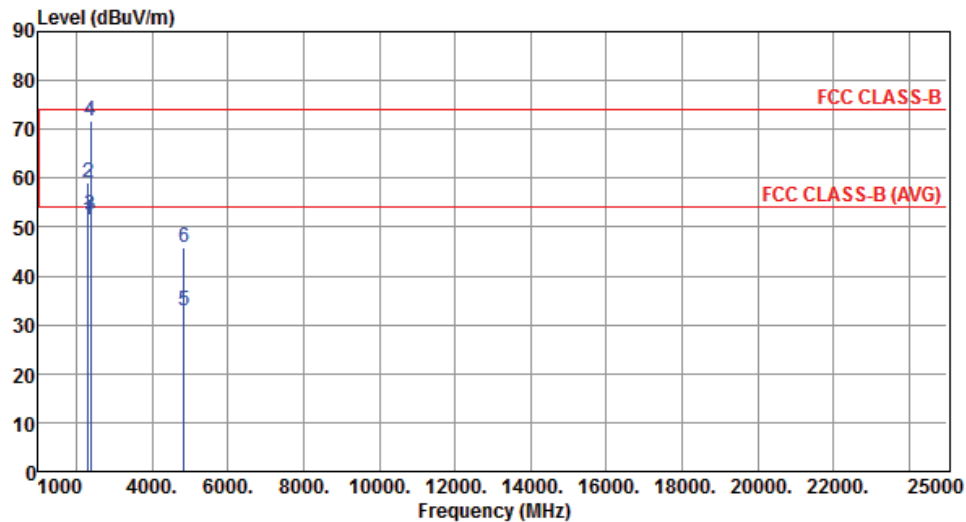
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	49.20	54.00	-4.80	52.50	-3.30	Average	---	---
2	2483.50	67.61	74.00	-6.39	70.91	-3.30	Peak	---	---
3	4924.00	32.58	54.00	-21.42	27.38	5.20	Average	---	---
4	4924.00	43.79	74.00	-30.21	38.59	5.20	Peak	---	---
5	7386.00	46.02	54.00	-7.98	36.63	9.39	Average	---	---
6	7386.00	60.94	74.00	-13.06	51.55	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	2



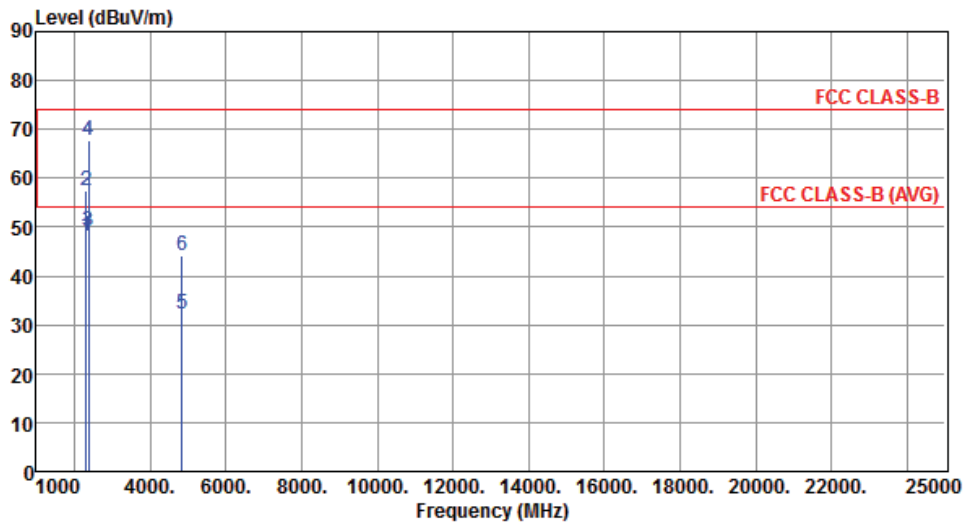
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.38	54.00	-2.62	55.34	-3.96	Average	---	---
2	2320.00	59.24	74.00	-14.76	63.20	-3.96	Peak	---	---
3	2390.00	52.47	54.00	-1.53	56.15	-3.68	Average	---	---
4	2390.00	71.57	74.00	-2.43	75.25	-3.68	Peak	---	---
5	4844.00	32.98	54.00	-21.02	27.95	5.03	Average	---	---
6	4844.00	45.69	74.00	-28.31	40.66	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	2



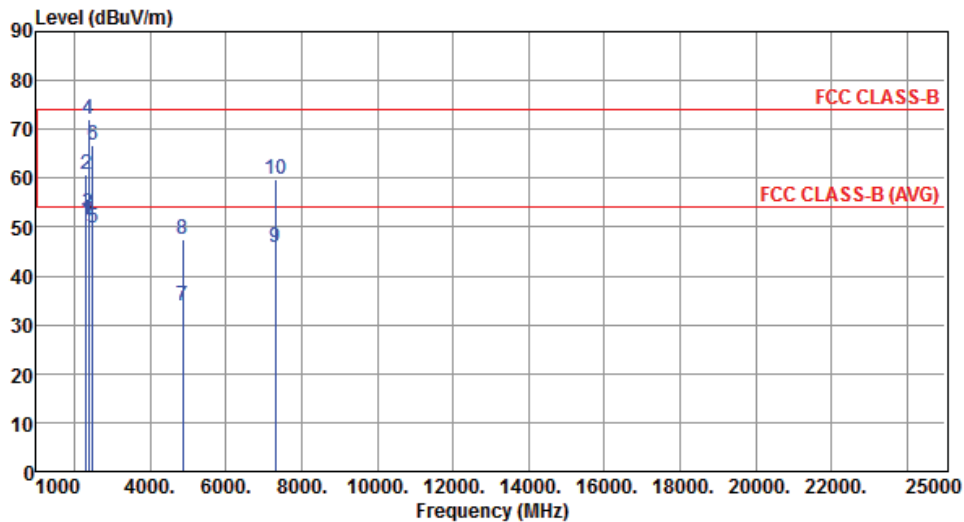
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	48.14	54.00	-5.86	52.10	-3.96	Average	---	---
2	2320.00	57.57	74.00	-16.43	61.53	-3.96	Peak	---	---
3	2390.00	49.14	54.00	-4.86	52.82	-3.68	Average	---	---
4	2390.00	67.71	74.00	-6.29	71.39	-3.68	Peak	---	---
5	4844.00	32.36	54.00	-21.64	27.33	5.03	Average	---	---
6	4844.00	44.27	74.00	-29.73	39.24	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



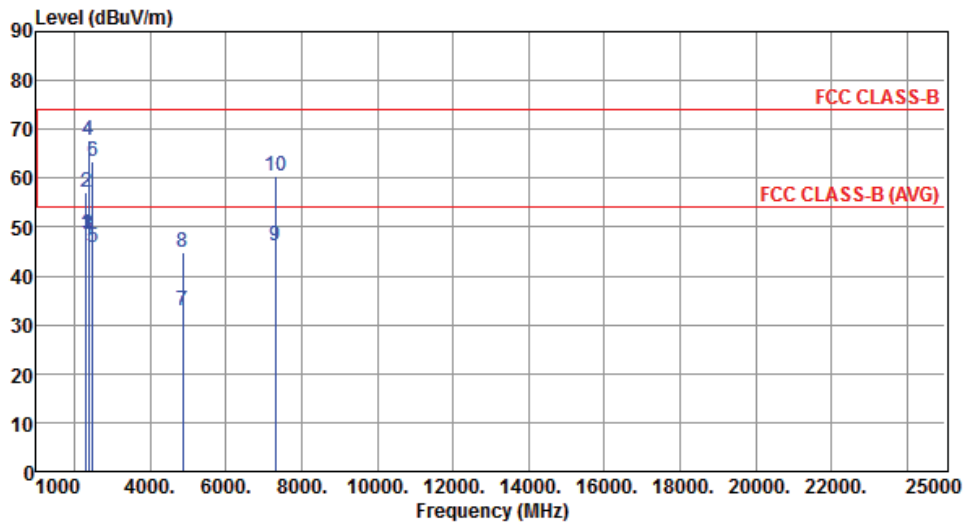
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.61	54.00	-2.39	55.57	-3.96	Average	---	---
2	2320.00	60.62	74.00	-13.38	64.58	-3.96	Peak	---	---
3	2390.00	52.70	54.00	-1.30	56.38	-3.68	Average	---	---
4	2390.00	72.16	74.00	-1.84	75.84	-3.68	Peak	---	---
5	2483.50	49.91	54.00	-4.09	53.21	-3.30	Average	---	---
6	2483.50	66.91	74.00	-7.09	70.21	-3.30	Peak	---	---
7	4874.00	33.76	54.00	-20.24	28.66	5.10	Average	---	---
8	4874.00	47.58	74.00	-26.42	42.48	5.10	Peak	---	---
9	7311.00	45.73	54.00	-8.27	36.40	9.33	Average	---	---
10	7311.00	59.67	74.00	-14.33	50.34	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



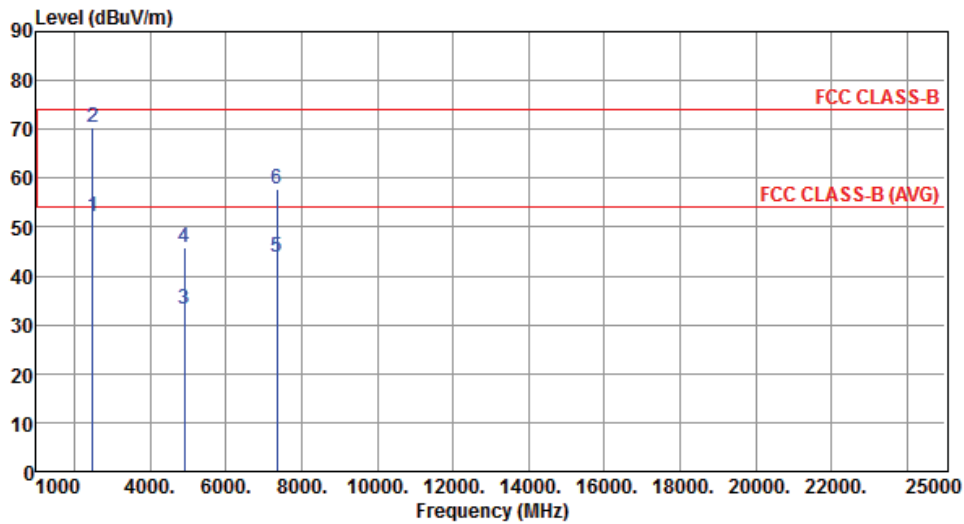
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	48.42	54.00	-5.58	52.38	-3.96	Average	---	---
2	2320.00	57.12	74.00	-16.88	61.08	-3.96	Peak	---	---
3	2390.00	48.65	54.00	-5.35	52.33	-3.68	Average	---	---
4	2390.00	67.69	74.00	-6.31	71.37	-3.68	Peak	---	---
5	2483.50	45.77	54.00	-8.23	49.07	-3.30	Average	---	---
6	2483.50	63.47	74.00	-10.53	66.77	-3.30	Peak	---	---
7	4874.00	32.94	54.00	-21.06	27.84	5.10	Average	---	---
8	4874.00	44.80	74.00	-29.20	39.70	5.10	Peak	---	---
9	7311.00	46.12	54.00	-7.88	36.79	9.33	Average	---	---
10	7311.00	60.38	74.00	-13.62	51.05	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	2



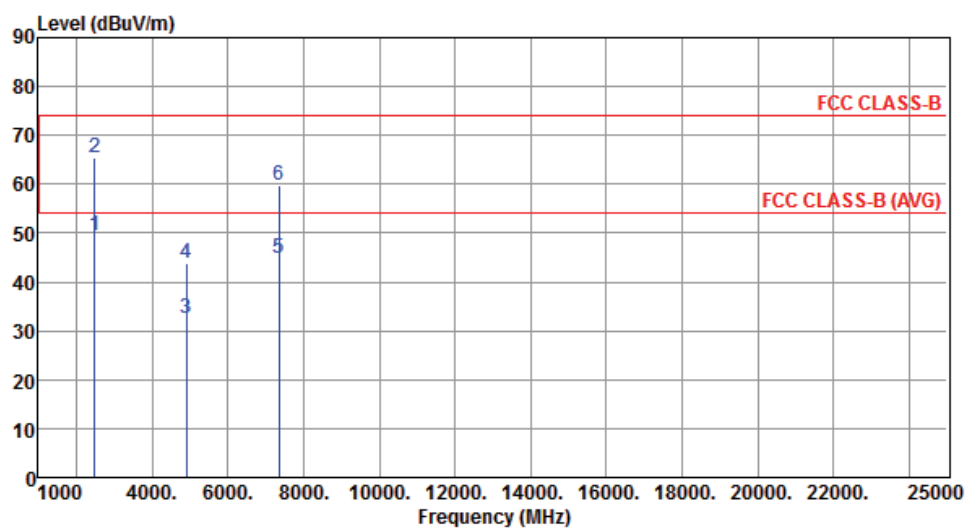
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.27	54.00	-1.73	55.57	-3.30	Average	---	---
2	2483.50	70.57	74.00	-3.43	73.87	-3.30	Peak	---	---
3	4904.00	33.24	54.00	-20.76	28.08	5.16	Average	---	---
4	4904.00	45.88	74.00	-28.12	40.72	5.16	Peak	---	---
5	7356.00	43.71	54.00	-10.29	34.35	9.36	Average	---	---
6	7356.00	57.66	74.00	-16.34	48.30	9.36	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	2



	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	49.43	54.00	-4.57	52.73	-3.30	Average	---	---
2	2483.50	65.42	74.00	-8.58	68.72	-3.30	Peak	---	---
3	4904.00	32.64	54.00	-21.36	27.48	5.16	Average	---	---
4	4904.00	43.97	74.00	-30.03	38.81	5.16	Peak	---	---
5	7356.00	44.92	54.00	-9.08	35.56	9.36	Average	---	---
6	7356.00	59.87	74.00	-14.13	50.51	9.36	Peak	---	---

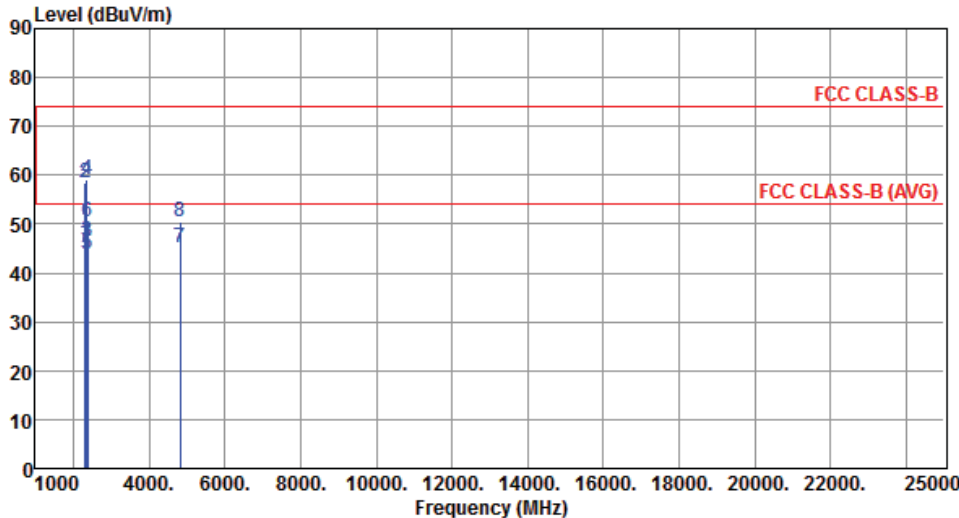
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.14 Transmitter Radiated Unwanted Emissions (Above 1GHz) (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

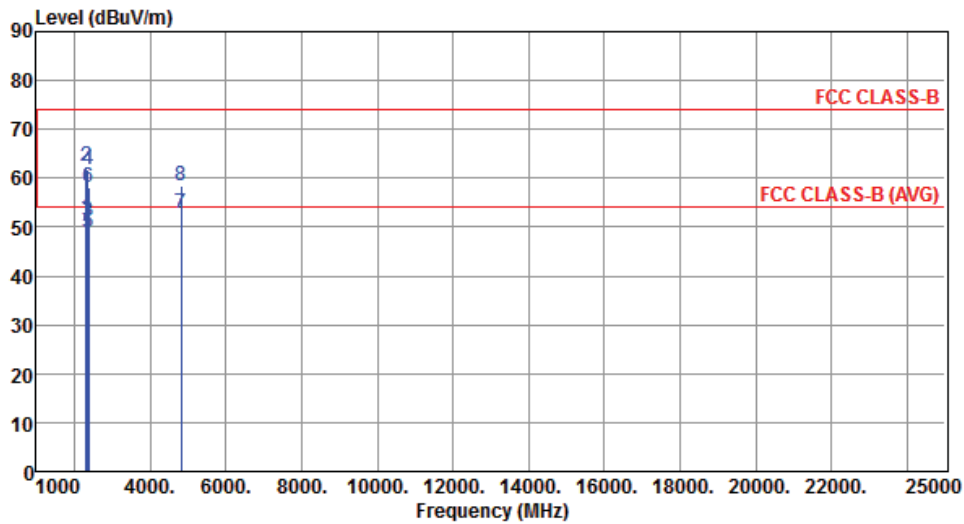
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	46.03	54.00	-7.97	49.99	-3.96	Average	---	---
2	2320.00	58.33	74.00	-15.67	62.29	-3.96	Peak	---	---
3	2360.00	46.55	54.00	-7.45	50.36	-3.81	Average	---	---
4	2360.00	59.11	74.00	-14.89	62.92	-3.81	Peak	---	---
5	2390.00	43.96	54.00	-10.04	47.64	-3.68	Average	---	---
6	2390.00	50.35	74.00	-23.65	54.03	-3.68	Peak	---	---
7	4824.00	45.11	54.00	-8.89	40.12	4.99	Average	---	---
8	4824.00	50.52	74.00	-23.48	45.53	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	3



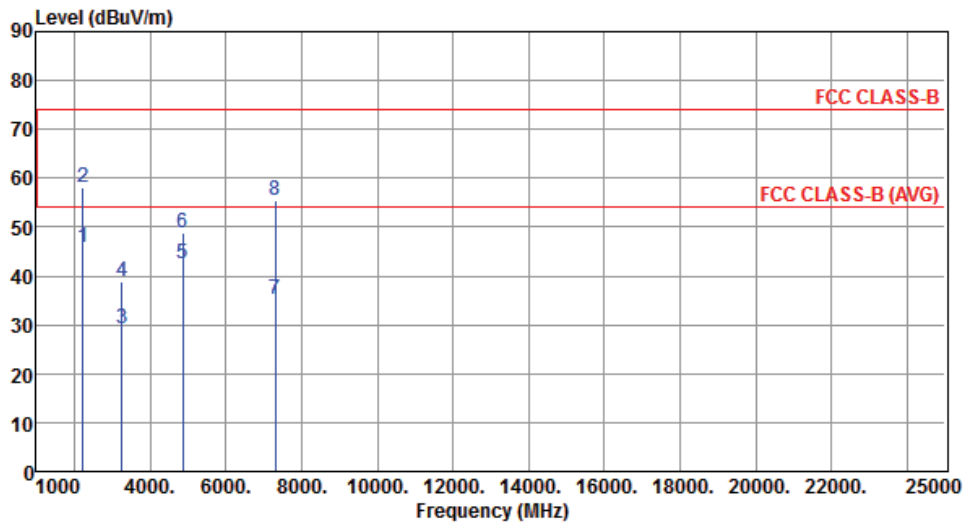
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.69	54.00	-2.31	55.65	-3.96	Average	---	---
2	2320.00	62.59	74.00	-11.41	66.55	-3.96	Peak	---	---
3	2360.00	51.20	54.00	-2.80	55.01	-3.81	Average	---	---
4	2360.00	61.85	74.00	-12.15	65.66	-3.81	Peak	---	---
5	2390.00	48.93	54.00	-5.07	52.61	-3.68	Average	---	---
6	2390.00	58.22	74.00	-15.78	61.90	-3.68	Peak	---	---
7	4824.00	52.88	54.00	-1.12	47.89	4.99	Average	---	---
8	4824.00	58.59	74.00	-15.41	53.60	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



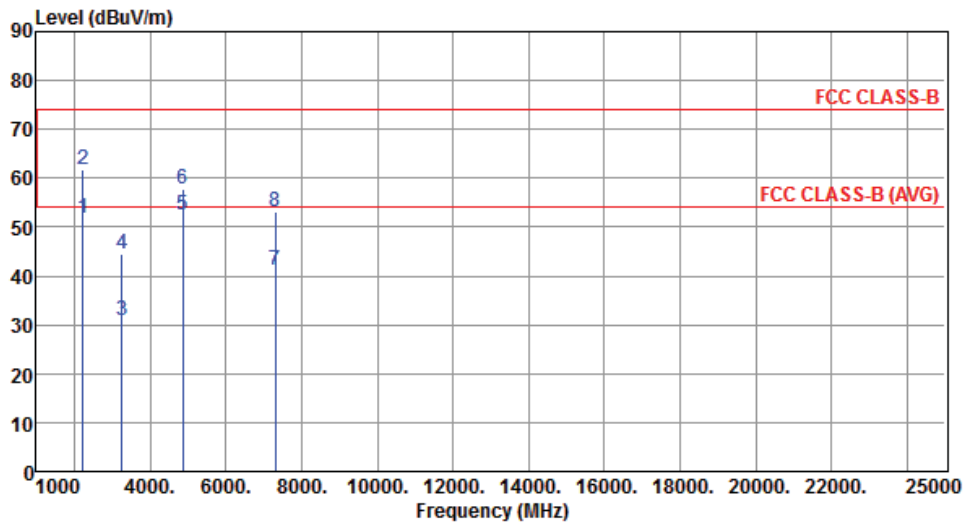
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2240.00	45.72	54.00	-8.28	49.99	-4.27	Average	---	---
2	2240.00	58.27	74.00	-15.73	62.54	-4.27	Peak	---	---
3	3249.00	29.11	54.00	-24.89	29.91	-0.80	Average	---	---
4	3249.00	38.76	74.00	-35.24	39.56	-0.80	Peak	---	---
5	4874.00	42.38	54.00	-11.62	37.28	5.10	Average	---	---
6	4874.00	48.68	74.00	-25.32	43.58	5.10	Peak	---	---
7	7311.00	35.20	54.00	-18.80	25.87	9.33	Average	---	---
8	7311.00	55.42	74.00	-18.58	46.09	9.33	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



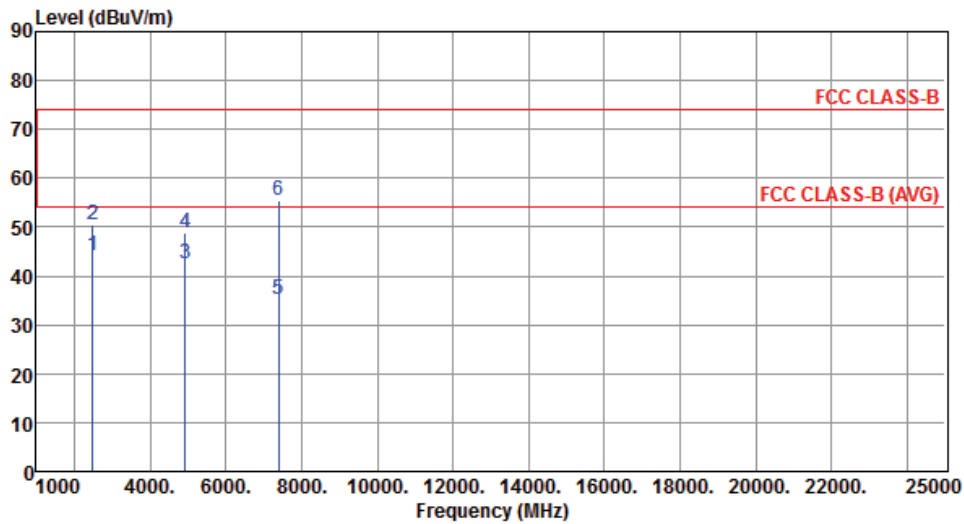
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2240.00	51.73	54.00	-2.27	56.00	-4.27	Average	---	---
2	2240.00	61.92	74.00	-12.08	66.19	-4.27	Peak	---	---
3	3249.00	30.77	54.00	-23.23	31.57	-0.80	Average	---	---
4	3249.00	44.54	74.00	-29.46	45.34	-0.80	Peak	---	---
5	4874.00	52.38	54.00	-1.62	47.28	5.10	Average	---	---
6	4874.00	57.81	74.00	-16.19	52.71	5.10	Peak	---	---
7	7311.00	41.02	54.00	-12.98	31.69	9.33	Average	---	---
8	7311.00	53.19	74.00	-20.81	43.86	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	3



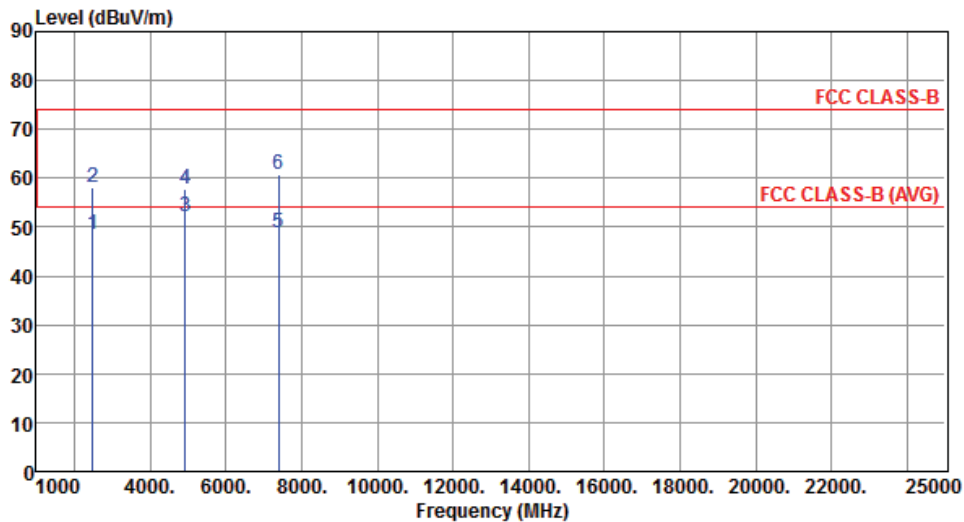
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	44.05	54.00	-9.95	47.35	-3.30	Average	---	---
2	2483.50	50.44	74.00	-23.56	53.74	-3.30	Peak	---	---
3	4924.00	42.44	54.00	-11.56	37.24	5.20	Average	---	---
4	4924.00	48.78	74.00	-25.22	43.58	5.20	Peak	---	---
5	7386.00	35.33	54.00	-18.67	25.94	9.39	Average	---	---
6	7386.00	55.55	74.00	-18.45	46.16	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	3



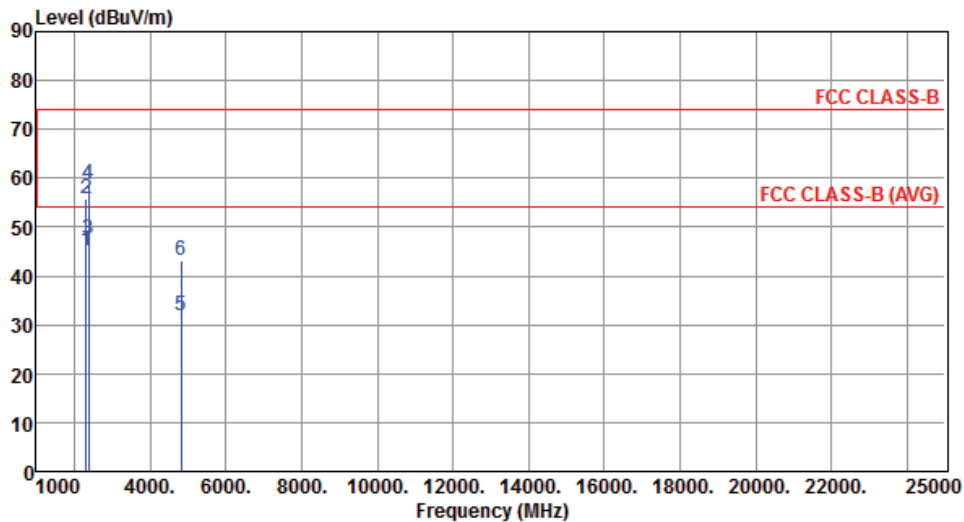
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	48.55	54.00	-5.45	51.85	-3.30	Average	---	---
2	2483.50	58.09	74.00	-15.91	61.39	-3.30	Peak	---	---
3	4924.00	52.15	54.00	-1.85	46.95	5.20	Average	---	---
4	4924.00	57.65	74.00	-16.35	52.45	5.20	Peak	---	---
5	7386.00	48.74	54.00	-5.26	39.35	9.39	Average	---	---
6	7386.00	60.80	74.00	-13.20	51.41	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	3



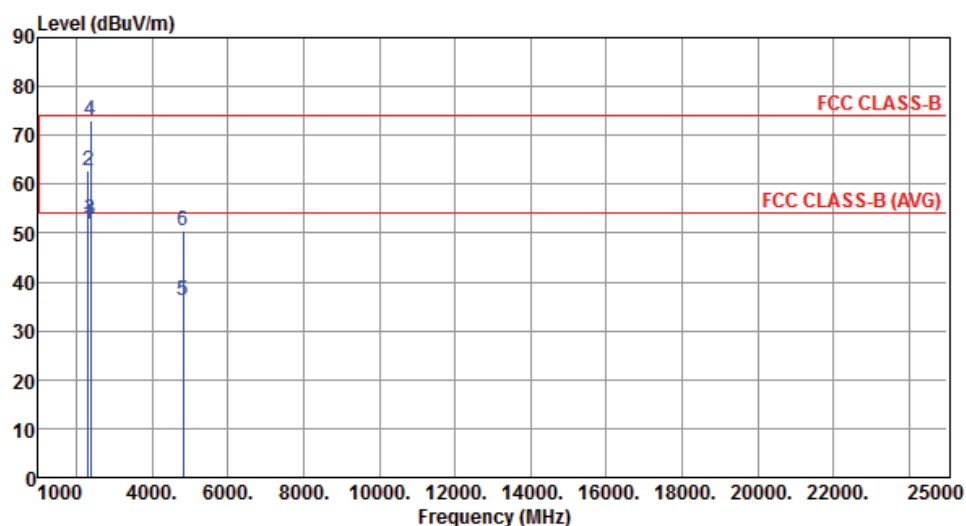
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	45.11	54.00	-8.89	49.07	-3.96	Average	---	---
2	2320.00	55.85	74.00	-18.15	59.81	-3.96	Peak	---	---
3	2390.00	47.50	54.00	-6.50	51.18	-3.68	Average	---	---
4	2390.00	58.77	74.00	-15.23	62.45	-3.68	Peak	---	---
5	4824.00	31.79	54.00	-22.21	26.80	4.99	Average	---	---
6	4824.00	43.22	74.00	-30.78	38.23	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	3



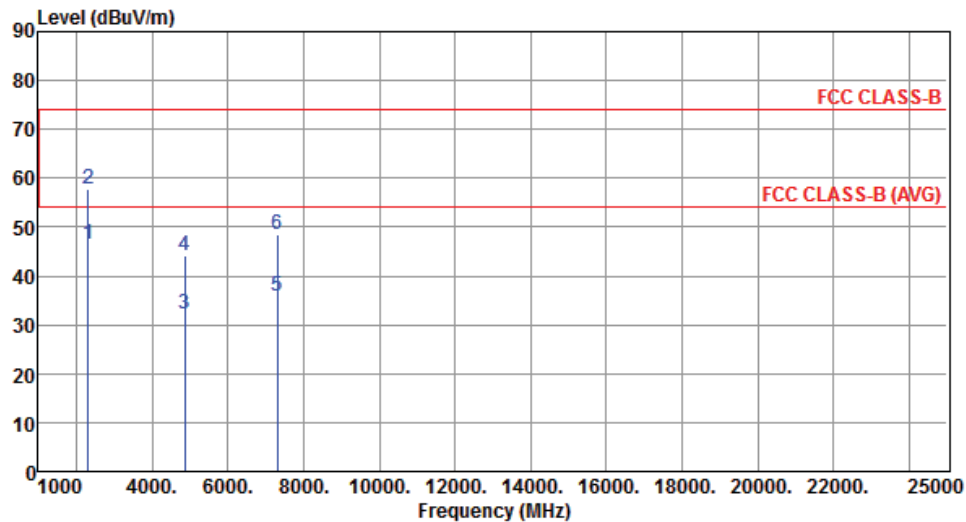
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.69	54.00	-2.31	55.65	-3.96	Average	---	---
2	2320.00	62.69	74.00	-11.31	66.65	-3.96	Peak	---	---
3	2390.00	52.92	54.00	-1.08	56.60	-3.68	Average	---	---
4	2390.00	72.90	74.00	-1.10	76.58	-3.68	Peak	---	---
5	4824.00	36.11	54.00	-17.89	31.12	4.99	Average	---	---
6	4824.00	50.55	74.00	-23.45	45.56	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



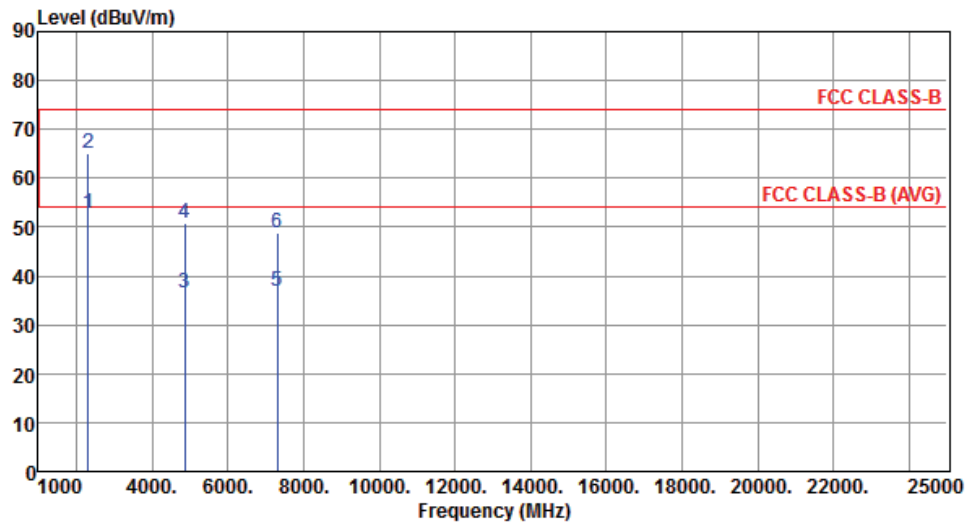
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	46.49	54.00	-7.51	50.45	-3.96	Average	---	---
2	2320.00	57.94	74.00	-16.06	61.90	-3.96	Peak	---	---
3	4874.00	32.30	54.00	-21.70	27.20	5.10	Average	---	---
4	4874.00	44.12	74.00	-29.88	39.02	5.10	Peak	---	---
5	7311.00	35.92	54.00	-18.08	26.59	9.33	Average	---	---
6	7311.00	48.32	74.00	-25.68	38.99	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



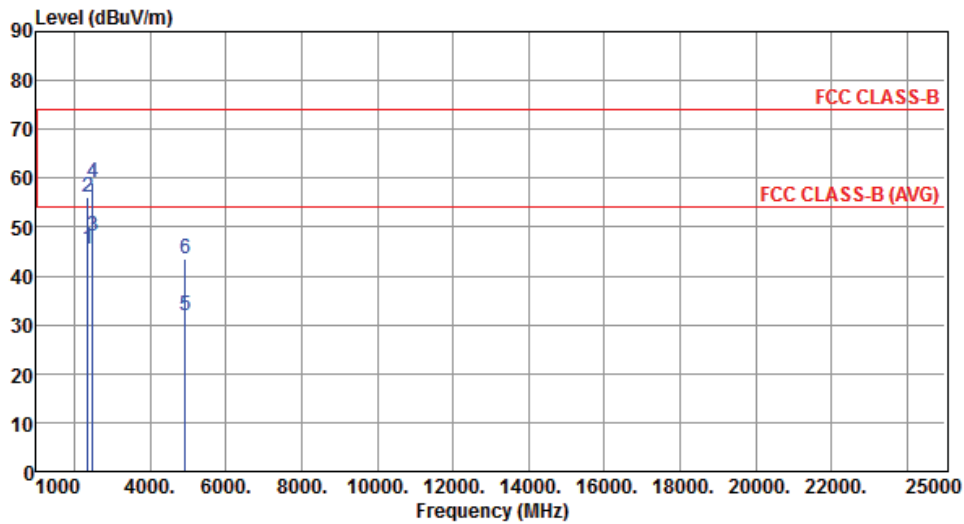
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	52.79	54.00	-1.21	56.75	-3.96	Average	---	---
2	2320.00	65.04	74.00	-8.96	69.00	-3.96	Peak	---	---
3	4874.00	36.41	54.00	-17.59	31.31	5.10	Average	---	---
4	4874.00	50.96	74.00	-23.04	45.86	5.10	Peak	---	---
5	7311.00	36.87	54.00	-17.13	27.54	9.33	Average	---	---
6	7311.00	48.72	74.00	-25.28	39.39	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	3



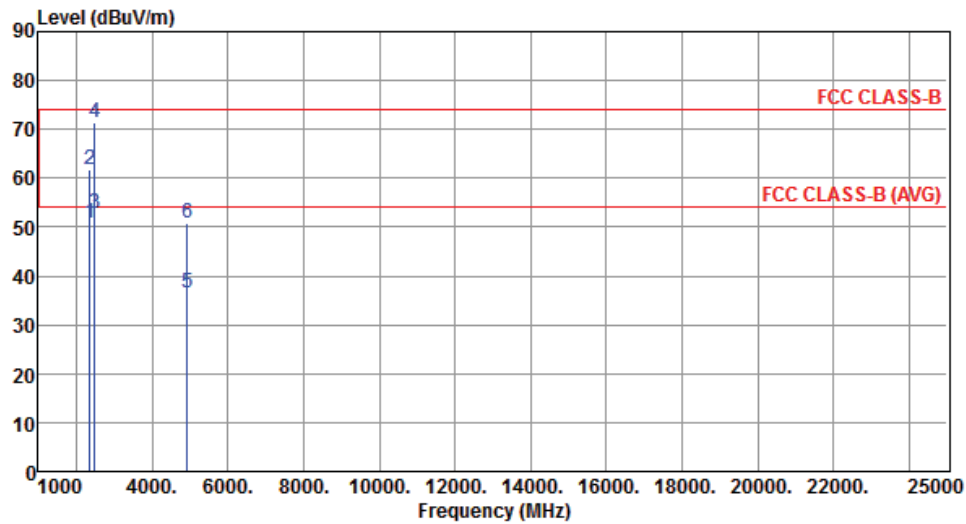
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	45.58	54.00	-8.42	49.39	-3.81	Average	---	---
2	2360.00	56.11	74.00	-17.89	59.92	-3.81	Peak	---	---
3	2483.50	48.12	54.00	-5.88	51.42	-3.30	Average	---	---
4	2483.50	59.28	74.00	-14.72	62.58	-3.30	Peak	---	---
5	4924.00	31.99	54.00	-22.01	26.79	5.20	Average	---	---
6	4924.00	43.59	74.00	-30.41	38.39	5.20	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	3



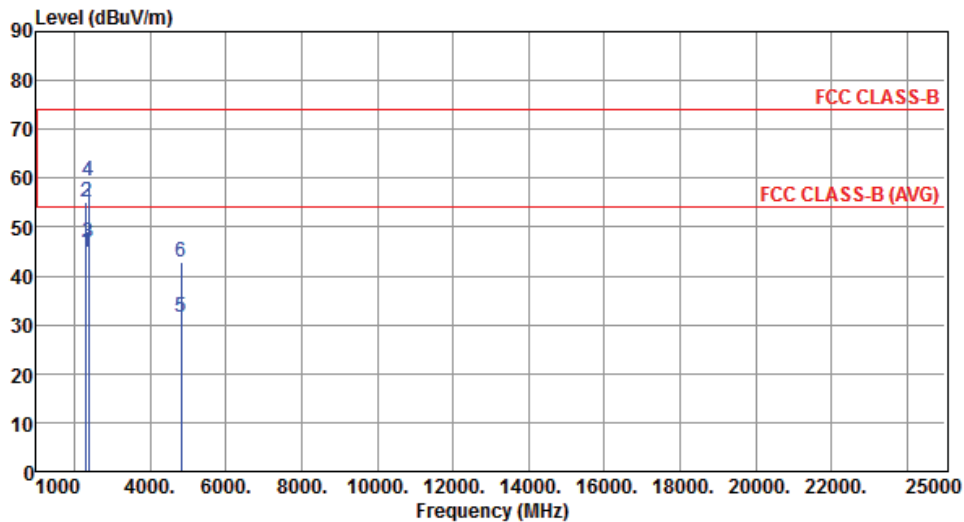
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	50.83	54.00	-3.17	54.64	-3.81	Average	---	---
2	2360.00	61.83	74.00	-12.17	65.64	-3.81	Peak	---	---
3	2483.50	52.95	54.00	-1.05	56.25	-3.30	Average	---	---
4	2483.50	71.27	74.00	-2.73	74.57	-3.30	Peak	---	---
5	4924.00	36.66	54.00	-17.34	31.46	5.20	Average	---	---
6	4924.00	50.87	74.00	-23.13	45.67	5.20	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	3



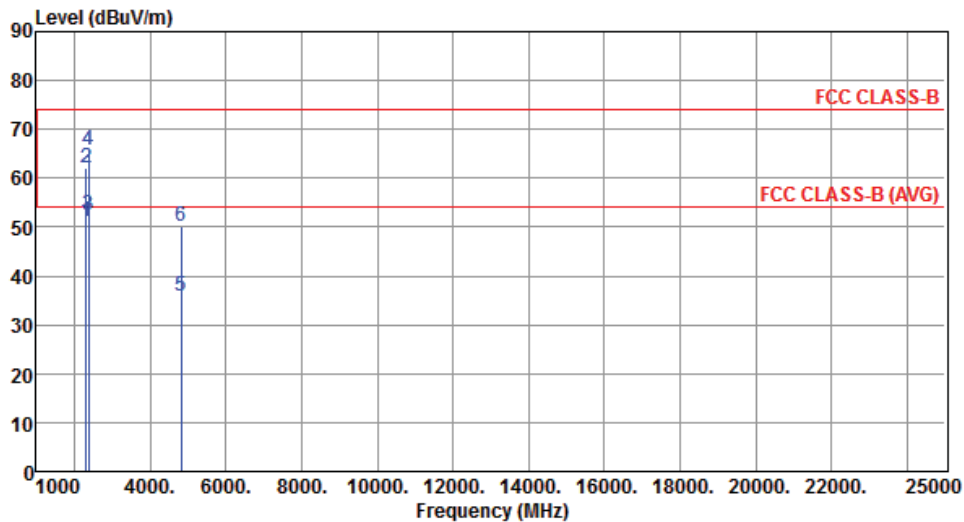
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	44.88	54.00	-9.12	48.84	-3.96	Average	---	---
2	2320.00	55.19	74.00	-18.81	59.15	-3.96	Peak	---	---
3	2390.00	46.91	54.00	-7.09	50.59	-3.68	Average	---	---
4	2390.00	59.36	74.00	-14.64	63.04	-3.68	Peak	---	---
5	4824.00	31.45	54.00	-22.55	26.46	4.99	Average	---	---
6	4824.00	42.99	74.00	-31.01	38.00	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	3



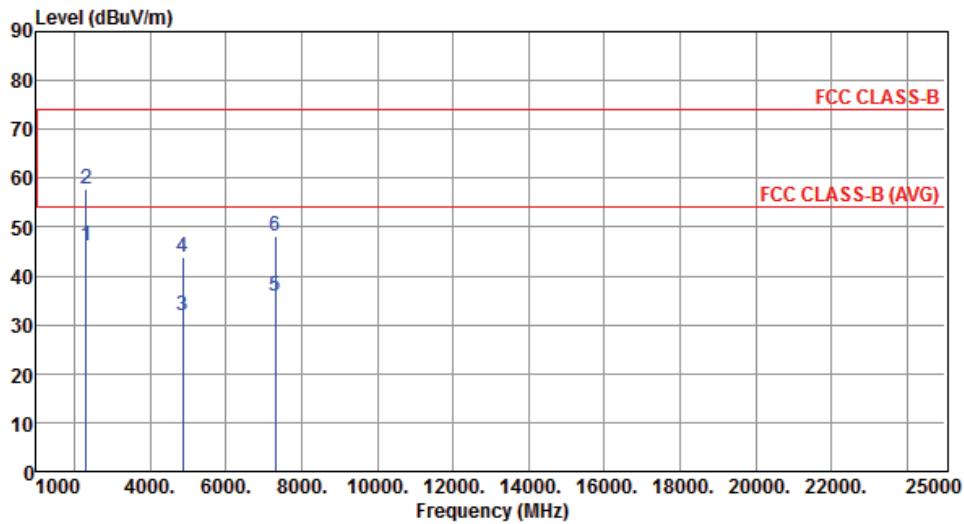
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.18	54.00	-2.82	55.14	-3.96	Average	---	---
2	2320.00	61.99	74.00	-12.01	65.95	-3.96	Peak	---	---
3	2390.00	52.44	54.00	-1.56	56.12	-3.68	Average	---	---
4	2390.00	65.60	74.00	-8.40	69.28	-3.68	Peak	---	---
5	4824.00	36.02	54.00	-17.98	31.03	4.99	Average	---	---
6	4824.00	50.11	74.00	-23.89	45.12	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



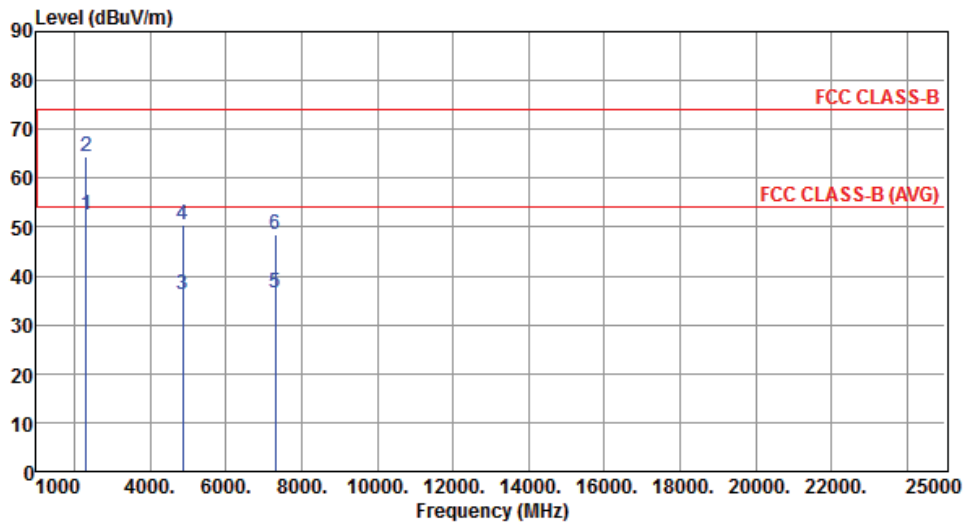
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	46.15	54.00	-7.85	50.11	-3.96	Average	---	---
2	2320.00	57.75	74.00	-16.25	61.71	-3.96	Peak	---	---
3	4874.00	31.88	54.00	-22.12	26.78	5.10	Average	---	---
4	4874.00	43.79	74.00	-30.21	38.69	5.10	Peak	---	---
5	7311.00	35.73	54.00	-18.27	26.40	9.33	Average	---	---
6	7311.00	48.02	74.00	-25.98	38.69	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



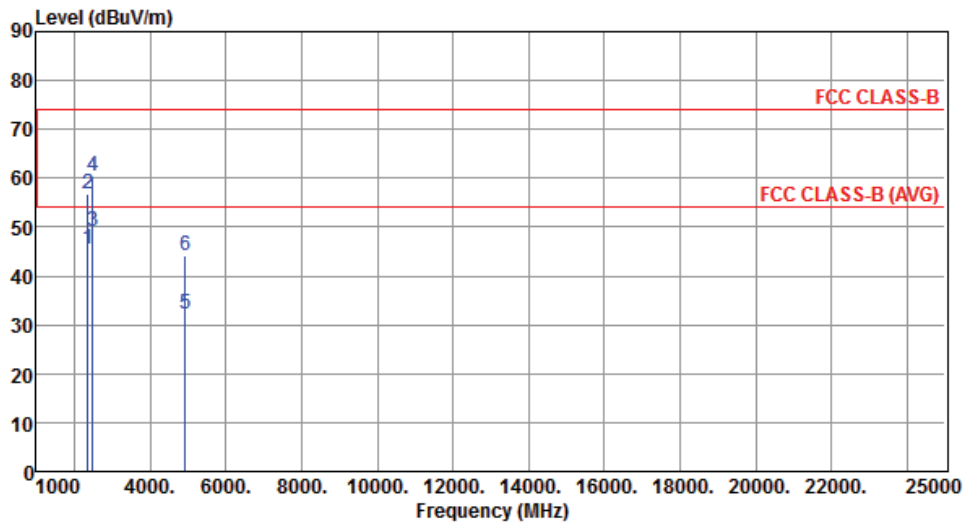
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	52.49	54.00	-1.51	56.45	-3.96	Average	---	---
2	2320.00	64.29	74.00	-9.71	68.25	-3.96	Peak	---	---
3	4874.00	36.29	54.00	-17.71	31.19	5.10	Average	---	---
4	4874.00	50.59	74.00	-23.41	45.49	5.10	Peak	---	---
5	7311.00	36.49	54.00	-17.51	27.16	9.33	Average	---	---
6	7311.00	48.51	74.00	-25.49	39.18	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	3



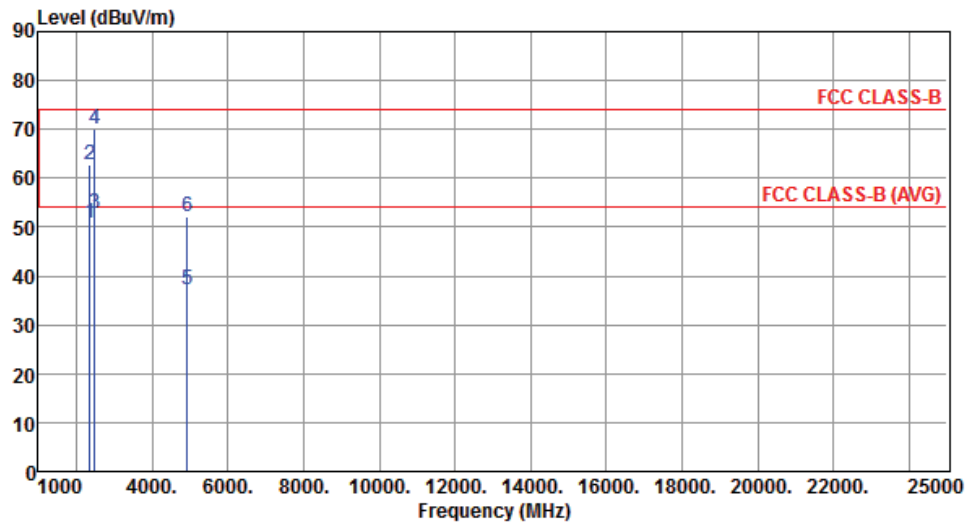
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	45.61	54.00	-8.39	49.42	-3.81	Average	---	---
2	2360.00	56.89	74.00	-17.11	60.70	-3.81	Peak	---	---
3	2483.50	49.02	54.00	-4.98	52.32	-3.30	Average	---	---
4	2483.50	60.31	74.00	-13.69	63.61	-3.30	Peak	---	---
5	4924.00	32.18	54.00	-21.82	26.98	5.20	Average	---	---
6	4924.00	44.11	74.00	-29.89	38.91	5.20	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	3



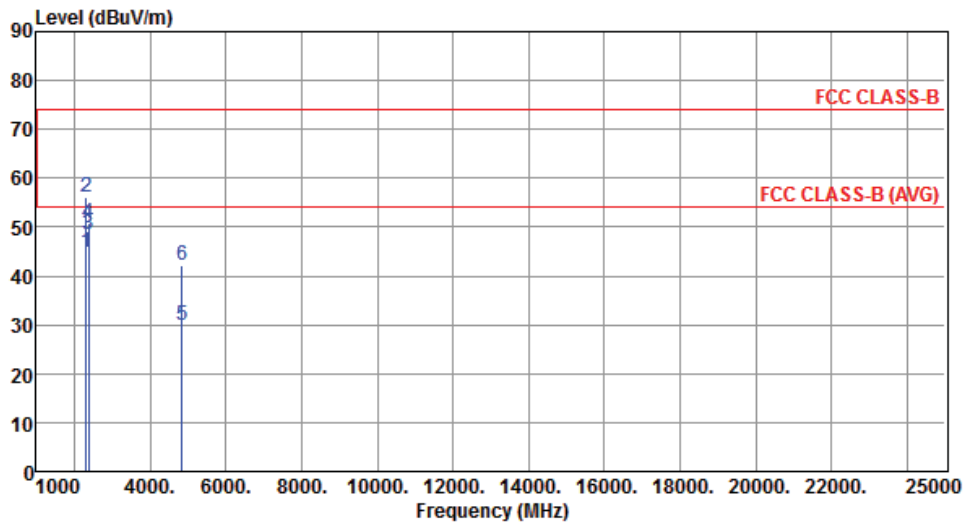
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2360.00	50.83	54.00	-3.17	54.64	-3.81	Average	---	---
2	2360.00	62.83	74.00	-11.17	66.64	-3.81	Peak	---	---
3	2483.50	52.77	54.00	-1.23	56.07	-3.30	Average	---	---
4	2483.50	70.17	74.00	-3.83	73.47	-3.30	Peak	---	---
5	4924.00	37.05	54.00	-16.95	31.85	5.20	Average	---	---
6	4924.00	51.99	74.00	-22.01	46.79	5.20	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	3



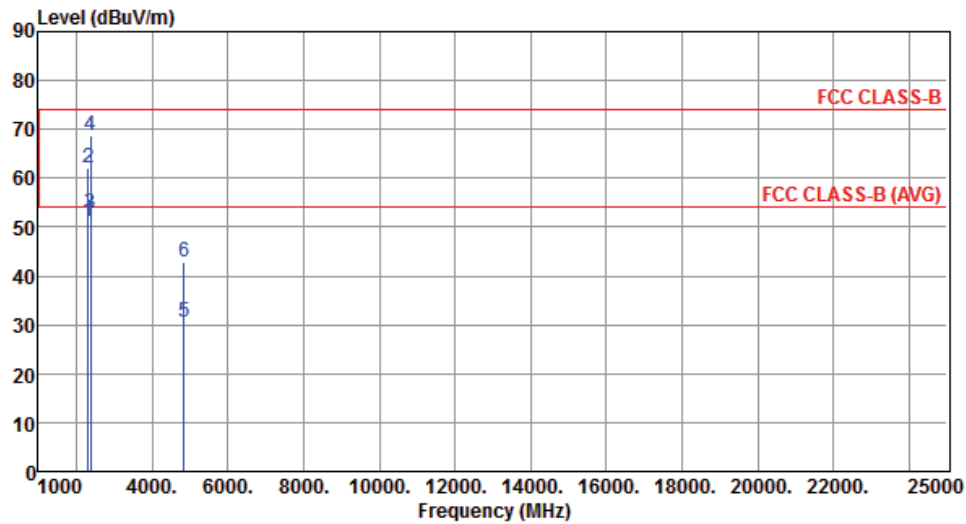
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	44.89	54.00	-9.11	48.85	-3.96	Average	---	---
2	2320.00	56.02	74.00	-17.98	59.98	-3.96	Peak	---	---
3	2390.00	48.45	54.00	-5.55	52.13	-3.68	Average	---	---
4	2390.00	50.67	74.00	-23.33	54.35	-3.68	Peak	---	---
5	4844.00	30.02	54.00	-23.98	24.99	5.03	Average	---	---
6	4844.00	42.11	74.00	-31.89	37.08	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	3



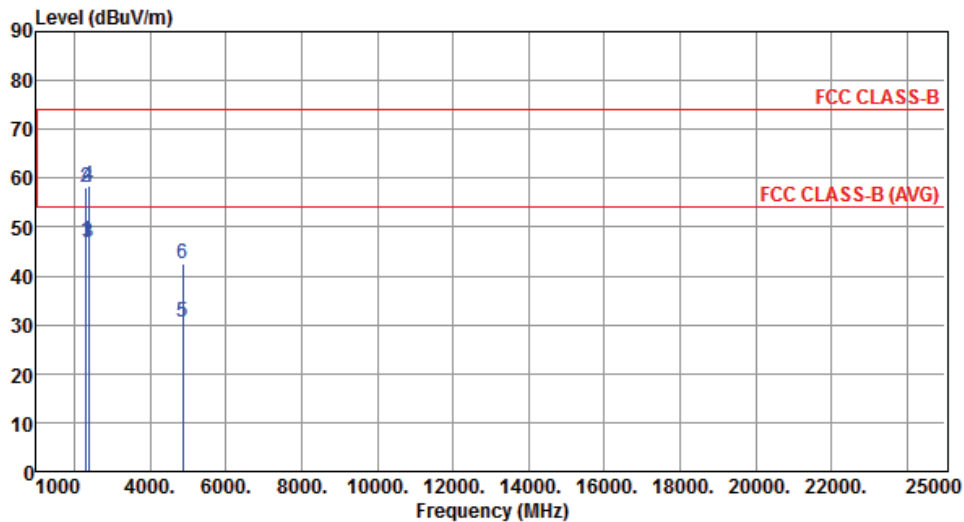
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.24	54.00	-2.76	55.20	-3.96	Average	---	---
2	2320.00	62.01	74.00	-11.99	65.97	-3.96	Peak	---	---
3	2390.00	52.86	54.00	-1.14	56.54	-3.68	Average	---	---
4	2390.00	68.73	74.00	-5.27	72.41	-3.68	Peak	---	---
5	4844.00	30.65	54.00	-23.35	25.62	5.03	Average	---	---
6	4844.00	42.70	74.00	-31.30	37.67	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



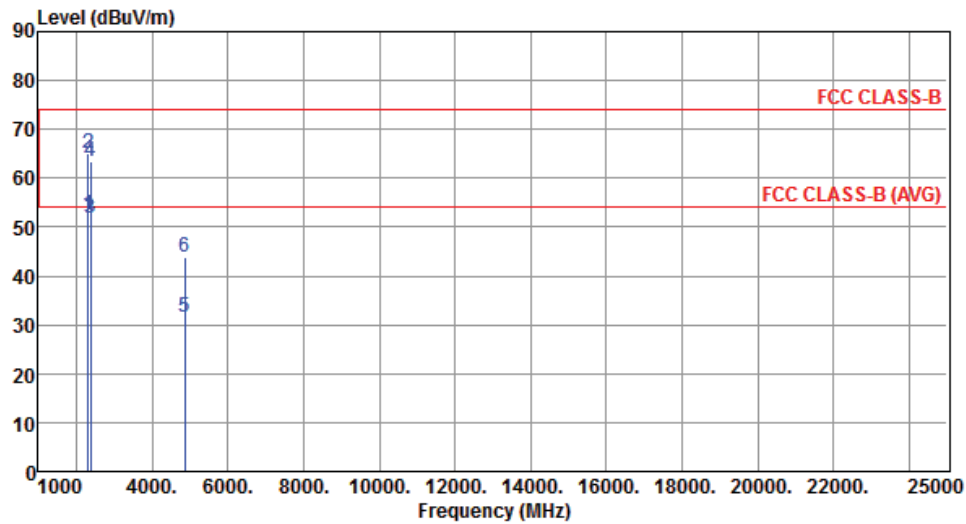
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	47.24	54.00	-6.76	51.20	-3.96	Average	---	---
2	2320.00	58.16	74.00	-15.84	62.12	-3.96	Peak	---	---
3	2390.00	46.75	54.00	-7.25	50.43	-3.68	Average	---	---
4	2390.00	58.60	74.00	-15.40	62.28	-3.68	Peak	---	---
5	4874.00	30.44	54.00	-23.56	25.34	5.10	Average	---	---
6	4874.00	42.66	74.00	-31.34	37.56	5.10	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



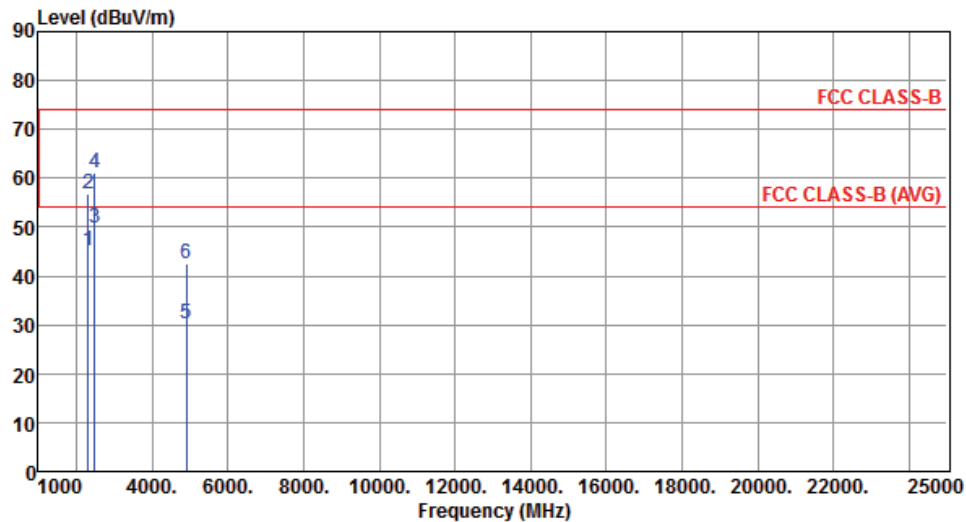
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	52.56	54.00	-1.44	56.52	-3.96	Average	---	---
2	2320.00	65.11	74.00	-8.89	69.07	-3.96	Peak	---	---
3	2390.00	51.82	54.00	-2.18	55.50	-3.68	Average	---	---
4	2390.00	63.47	74.00	-10.53	67.15	-3.68	Peak	---	---
5	4874.00	31.51	54.00	-22.49	26.41	5.10	Average	---	---
6	4874.00	43.78	74.00	-30.22	38.68	5.10	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	3



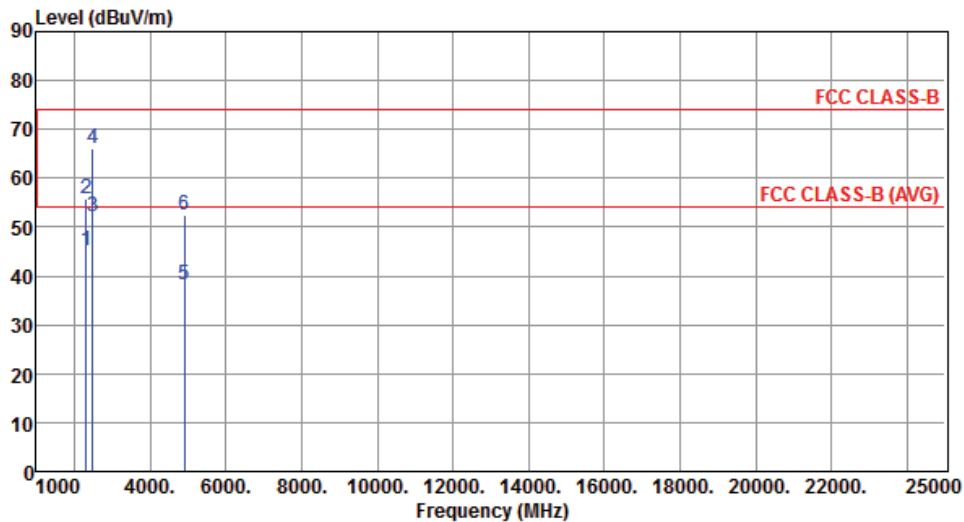
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	45.01	54.00	-8.99	48.97	-3.96	Average	---	---
2	2320.00	56.81	74.00	-17.19	60.77	-3.96	Peak	---	---
3	2483.50	49.88	54.00	-4.12	53.18	-3.30	Average	---	---
4	2483.50	61.25	74.00	-12.75	64.55	-3.30	Peak	---	---
5	4904.00	30.22	54.00	-23.78	25.06	5.16	Average	---	---
6	4904.00	42.39	74.00	-31.61	37.23	5.16	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	45.06	54.00	-8.94	49.02	-3.96	Average	---	---
2	2320.00	55.78	74.00	-18.22	59.74	-3.96	Peak	---	---
3	2483.50	52.27	54.00	-1.73	55.57	-3.30	Average	---	---
4	2483.50	66.18	74.00	-7.82	69.48	-3.30	Peak	---	---
5	4904.00	38.35	54.00	-15.65	33.19	5.16	Average	---	---
6	4904.00	52.50	74.00	-21.50	47.34	5.16	Peak	---	---

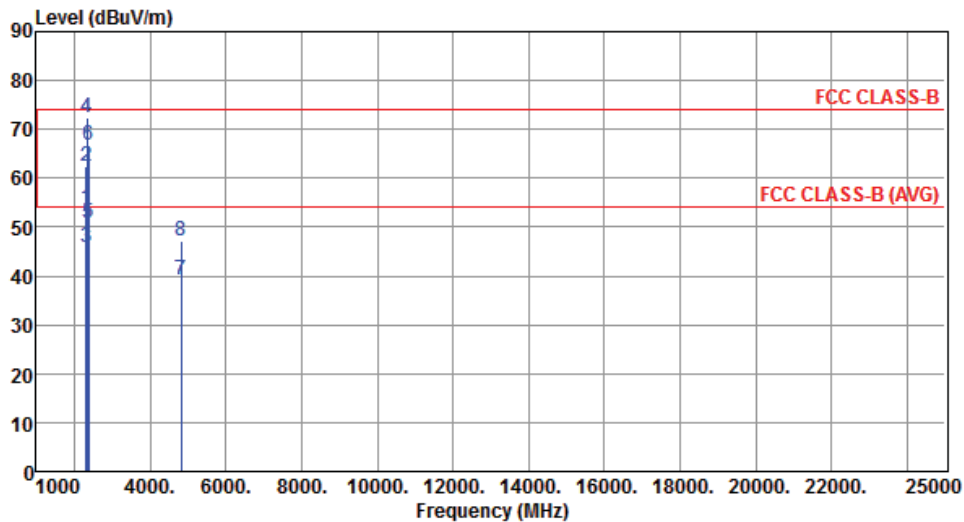
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.15 Transmitter Radiated Unwanted Emissions (Above 1GHz) (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	4



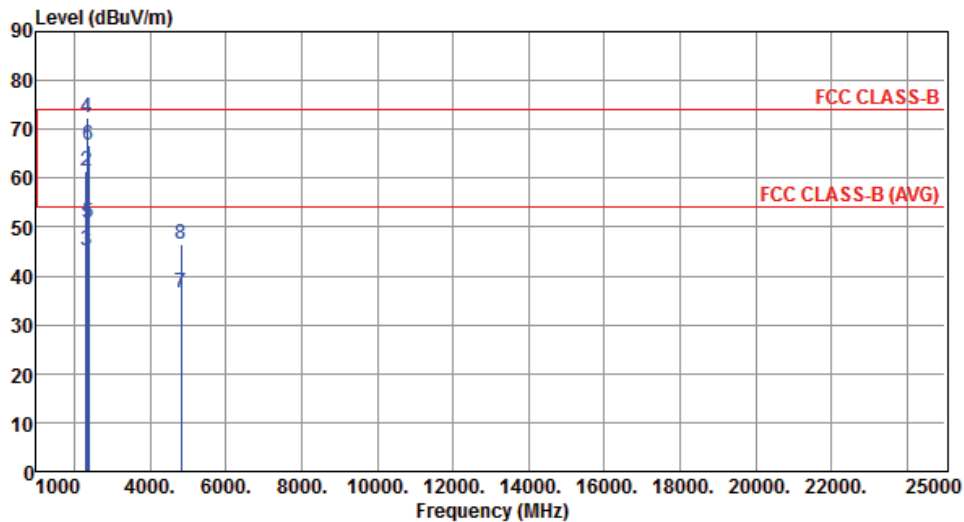
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.68	54.00	-0.32	57.64	-3.96	Average	---	---
2	2320.00	62.35	74.00	-11.65	66.31	-3.96	Peak	---	---
3	2332.00	45.68	54.00	-8.32	49.59	-3.91	Average	---	---
4	2332.00	72.44	74.00	-1.56	76.35	-3.91	Peak	---	---
5	2390.00	50.87	54.00	-3.13	54.55	-3.68	Average	---	---
6	2390.00	66.89	74.00	-7.11	70.57	-3.68	Peak	---	---
7	4824.00	39.09	54.00	-14.91	34.10	4.99	Average	---	---
8	4824.00	47.08	74.00	-26.92	42.09	4.99	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	4



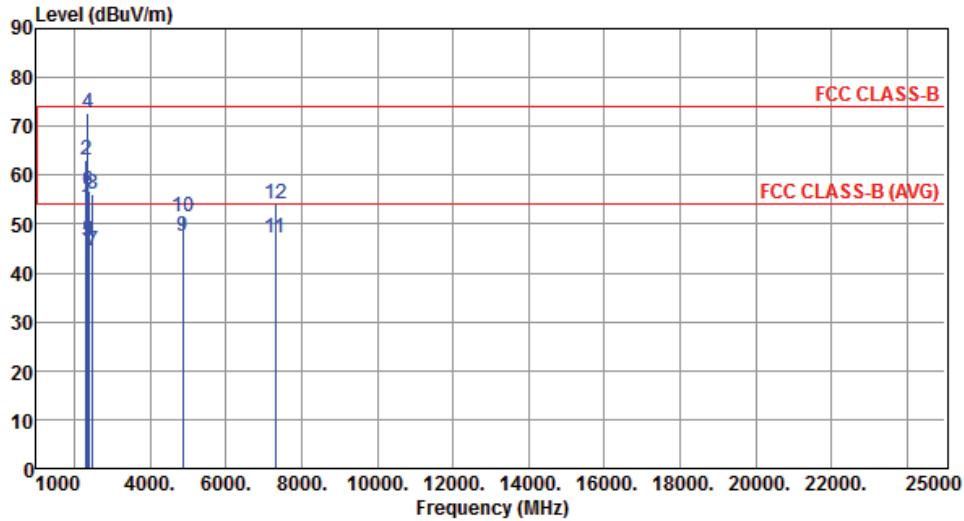
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.39	54.00	-3.61	54.35	-3.96	Average	---	---
2	2320.00	61.32	74.00	-12.68	65.28	-3.96	Peak	---	---
3	2332.00	45.21	54.00	-8.79	49.12	-3.91	Average	---	---
4	2332.00	72.36	74.00	-1.64	76.27	-3.91	Peak	---	---
5	2390.00	50.73	54.00	-3.27	54.41	-3.68	Average	---	---
6	2390.00	66.59	74.00	-7.41	70.27	-3.68	Peak	---	---
7	4824.00	36.57	54.00	-17.43	31.58	4.99	Average	---	---
8	4824.00	46.65	74.00	-27.35	41.66	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



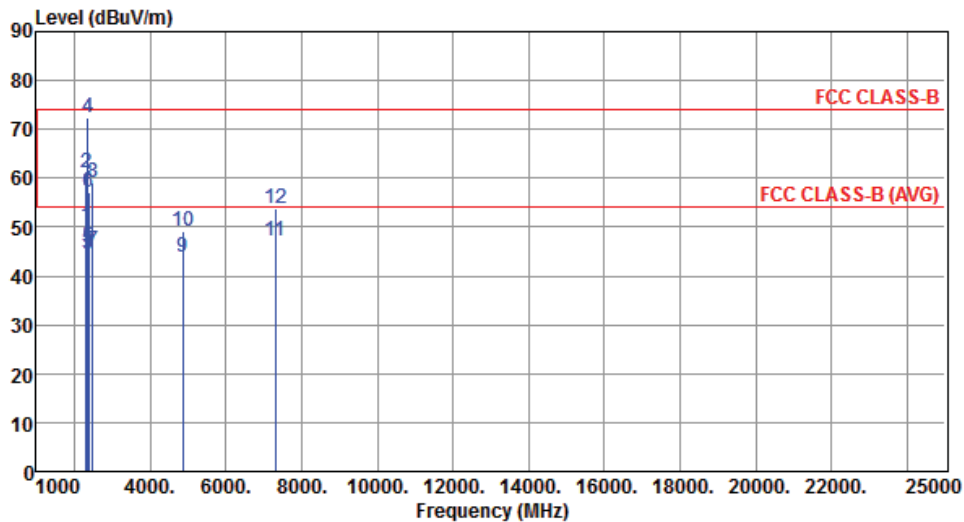
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.44	54.00	-0.56	57.40	-3.96	Average	---	---
2	2320.00	63.17	74.00	-10.83	67.13	-3.96	Peak	---	---
3	2356.00	46.56	54.00	-7.44	50.38	-3.82	Average	---	---
4	2356.00	72.83	74.00	-1.17	76.65	-3.82	Peak	---	---
5	2390.00	46.52	54.00	-7.48	50.20	-3.68	Average	---	---
6	2390.00	56.76	74.00	-17.24	60.44	-3.68	Peak	---	---
7	2483.50	44.38	54.00	-9.62	47.68	-3.30	Average	---	---
8	2483.50	56.29	74.00	-17.71	59.59	-3.30	Peak	---	---
9	4874.00	47.50	54.00	-6.50	42.40	5.10	Average	---	---
10	4874.00	51.38	74.00	-22.62	46.28	5.10	Peak	---	---
11	7311.00	47.24	54.00	-6.76	37.91	9.33	Average	---	---
12	7311.00	54.01	74.00	-19.99	44.68	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



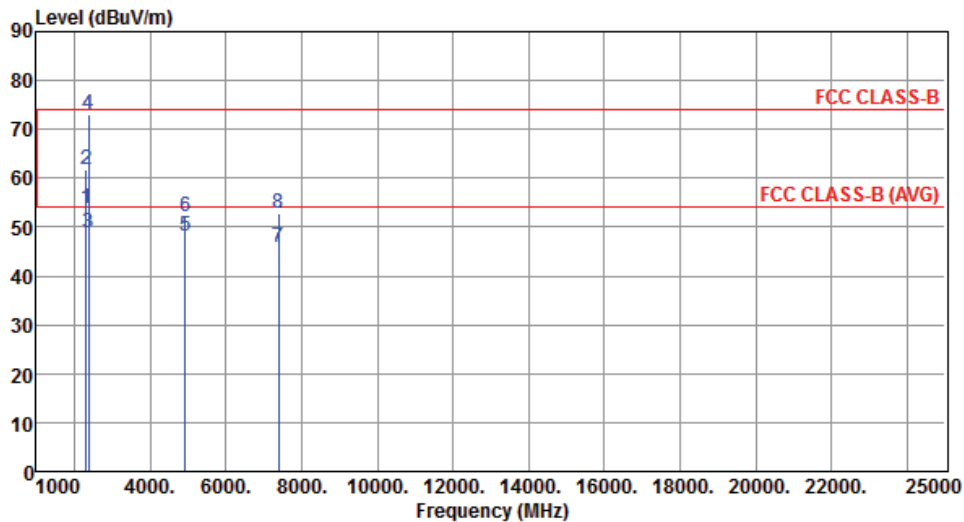
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.29	54.00	-3.71	54.25	-3.96	Average	---	---
2	2320.00	61.08	74.00	-12.92	65.04	-3.96	Peak	---	---
3	2356.00	44.39	54.00	-9.61	48.21	-3.82	Average	---	---
4	2356.00	72.26	74.00	-1.74	76.08	-3.82	Peak	---	---
5	2390.00	45.68	54.00	-8.32	49.36	-3.68	Average	---	---
6	2390.00	57.00	74.00	-17.00	60.68	-3.68	Peak	---	---
7	2483.50	45.15	54.00	-8.85	48.45	-3.30	Average	---	---
8	2483.50	59.24	74.00	-14.76	62.54	-3.30	Peak	---	---
9	4874.00	43.84	54.00	-10.16	38.74	5.10	Average	---	---
10	4874.00	49.07	74.00	-24.93	43.97	5.10	Peak	---	---
11	7311.00	47.19	54.00	-6.81	37.86	9.33	Average	---	---
12	7311.00	53.84	74.00	-20.16	44.51	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	4



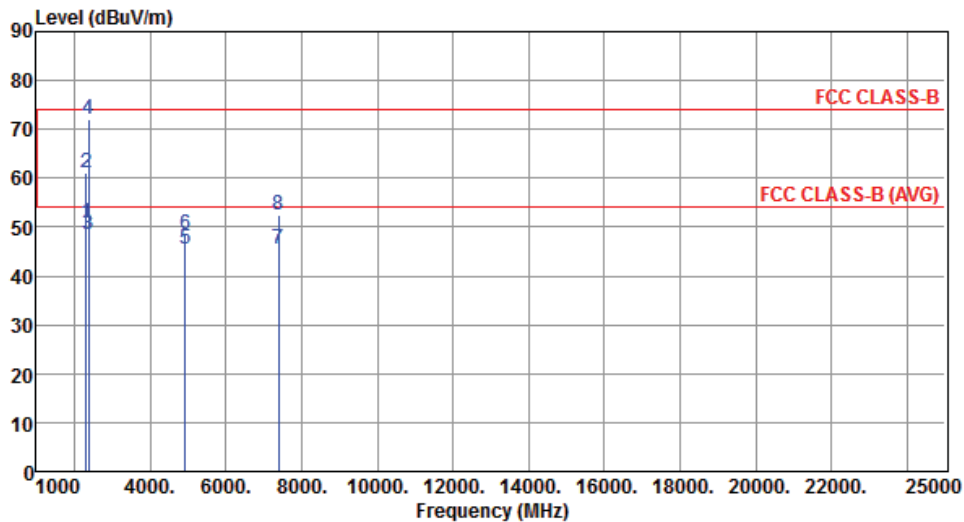
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.80	54.00	-0.20	57.76	-3.96	Average	---	---
2	2320.00	61.92	74.00	-12.08	65.88	-3.96	Peak	---	---
3	2382.00	48.78	54.00	-5.22	52.50	-3.72	Average	---	---
4	2382.00	73.00	74.00	-1.00	76.72	-3.72	Peak	---	---
5	4924.00	48.25	54.00	-5.75	43.05	5.20	Average	---	---
6	4924.00	52.13	74.00	-21.87	46.93	5.20	Peak	---	---
7	7386.00	45.91	54.00	-8.09	36.52	9.39	Average	---	---
8	7386.00	52.74	74.00	-21.26	43.35	9.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	4



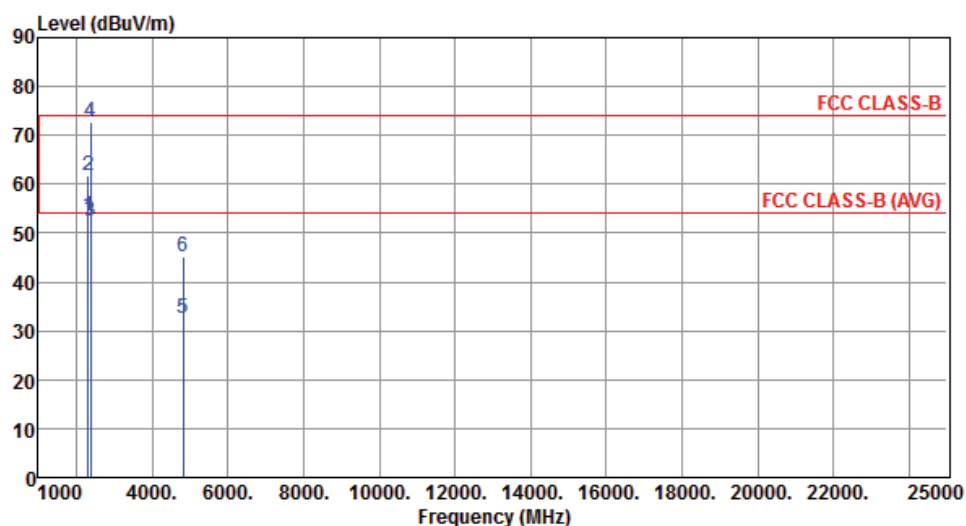
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.89	54.00	-3.11	54.85	-3.96	Average	---	---
2	2320.00	61.19	74.00	-12.81	65.15	-3.96	Peak	---	---
3	2382.00	48.40	54.00	-5.60	52.12	-3.72	Average	---	---
4	2382.00	72.11	74.00	-1.89	75.83	-3.72	Peak	---	---
5	4924.00	45.41	54.00	-8.59	40.21	5.20	Average	---	---
6	4924.00	48.58	74.00	-25.42	43.38	5.20	Peak	---	---
7	7386.00	45.55	54.00	-8.45	36.16	9.39	Average	---	---
8	7386.00	52.42	74.00	-21.58	43.03	9.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	4



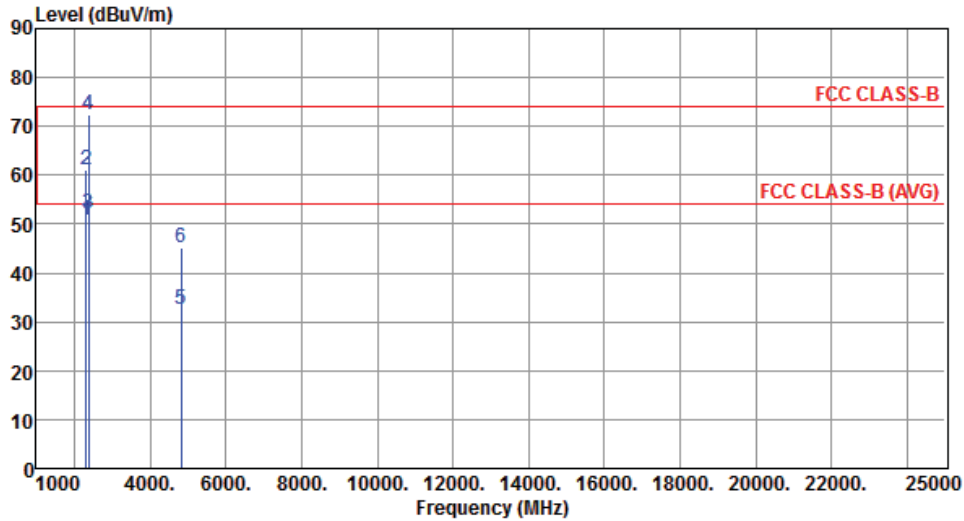
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.60	54.00	-0.40	57.56	-3.96	Average	---	---
2	2320.00	61.68	74.00	-12.32	65.64	-3.96	Peak	---	---
3	2390.00	52.32	54.00	-1.68	56.00	-3.68	Average	---	---
4	2390.00	72.83	74.00	-1.17	76.51	-3.68	Peak	---	---
5	4824.00	32.52	54.00	-21.48	27.53	4.99	Average	---	---
6	4824.00	45.17	74.00	-28.83	40.18	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	4



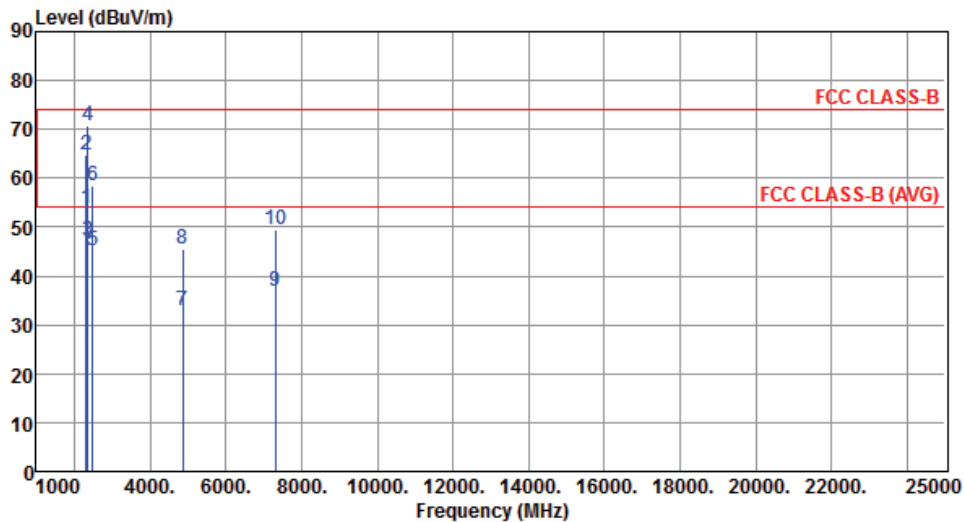
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.80	54.00	-3.20	54.76	-3.96	Average	---	---
2	2320.00	61.20	74.00	-12.80	65.16	-3.96	Peak	---	---
3	2390.00	52.03	54.00	-1.97	55.71	-3.68	Average	---	---
4	2390.00	72.27	74.00	-1.73	75.95	-3.68	Peak	---	---
5	4824.00	32.60	54.00	-21.40	27.61	4.99	Average	---	---
6	4824.00	45.22	74.00	-28.78	40.23	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



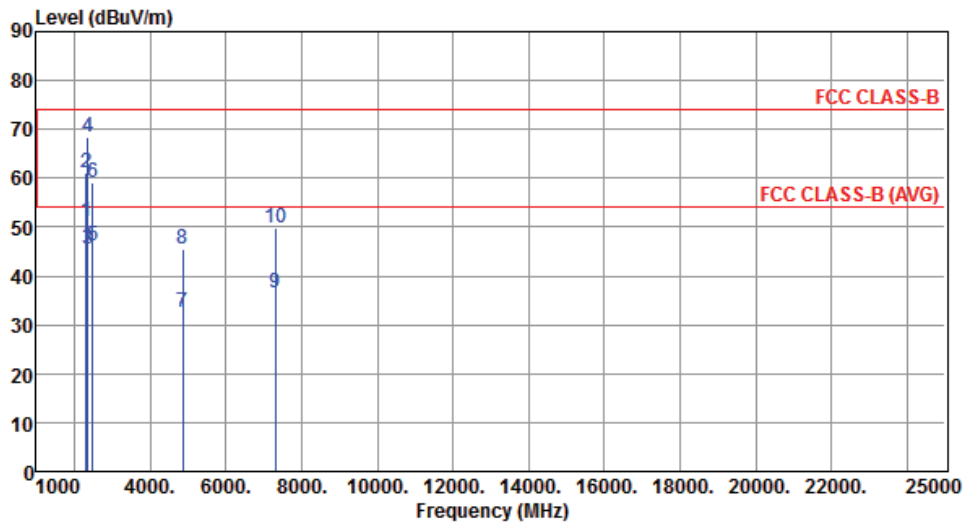
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.89	54.00	-0.11	57.85	-3.96	Average	---	---
2	2320.00	64.73	74.00	-9.27	68.69	-3.96	Peak	---	---
3	2352.00	47.02	54.00	-6.98	50.87	-3.85	Average	---	---
4	2352.00	70.87	74.00	-3.13	74.72	-3.85	Peak	---	---
5	2483.50	45.01	54.00	-8.99	48.31	-3.30	Average	---	---
6	2483.50	58.30	74.00	-15.70	61.60	-3.30	Peak	---	---
7	4874.00	32.89	54.00	-21.11	27.79	5.10	Average	---	---
8	4874.00	45.63	74.00	-28.37	40.53	5.10	Peak	---	---
9	7311.00	36.89	54.00	-17.11	27.56	9.33	Average	---	---
10	7311.00	49.50	74.00	-24.50	40.17	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



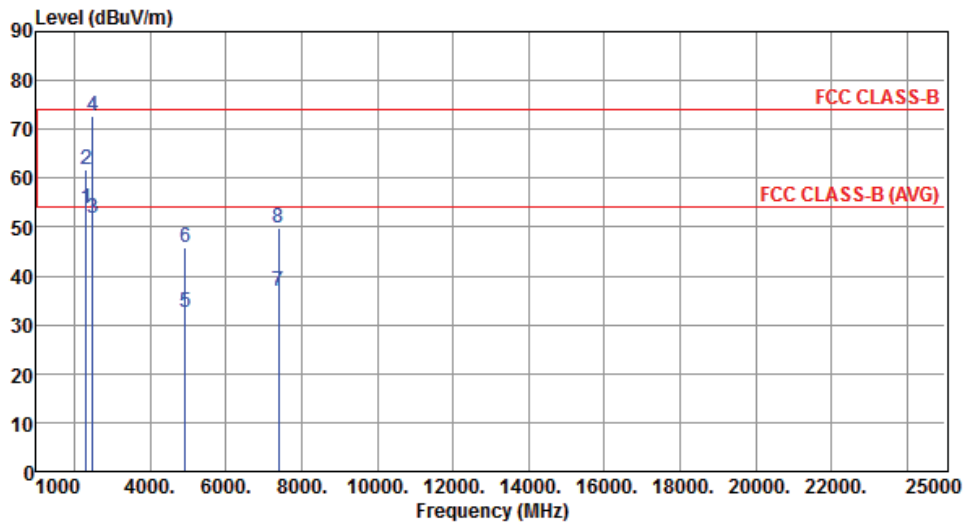
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.21	54.00	-2.79	55.17	-3.96	Average	---	---
2	2320.00	61.10	74.00	-12.90	65.06	-3.96	Peak	---	---
3	2352.00	45.55	54.00	-8.45	49.40	-3.85	Average	---	---
4	2352.00	68.31	74.00	-5.69	72.16	-3.85	Peak	---	---
5	2483.50	46.09	54.00	-7.91	49.39	-3.30	Average	---	---
6	2483.50	59.22	74.00	-14.78	62.52	-3.30	Peak	---	---
7	4874.00	32.54	54.00	-21.46	27.44	5.10	Average	---	---
8	4874.00	45.41	74.00	-28.59	40.31	5.10	Peak	---	---
9	7311.00	36.57	54.00	-17.43	27.24	9.33	Average	---	---
10	7311.00	49.74	74.00	-24.26	40.41	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	4



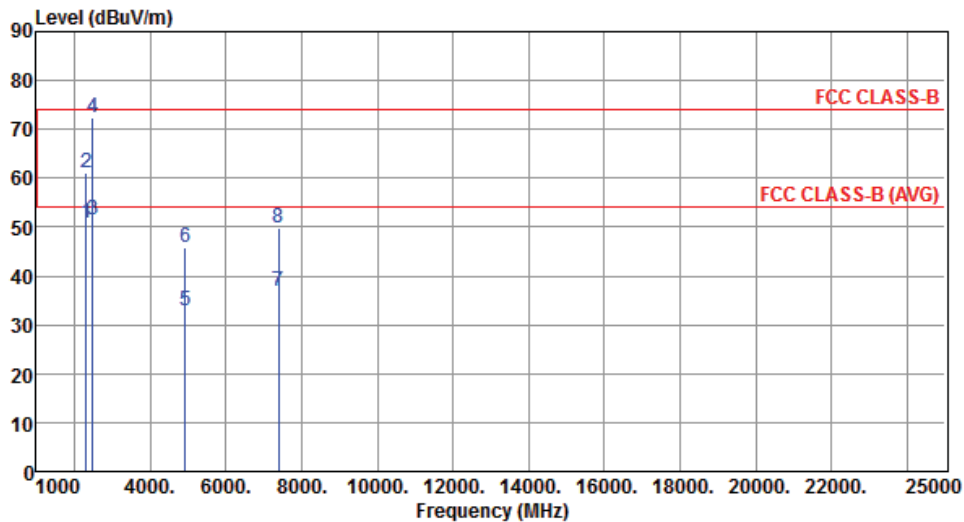
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.79	54.00	-0.21	57.75	-3.96	Average	---	---
2	2320.00	61.69	74.00	-12.31	65.65	-3.96	Peak	---	---
3	2483.50	51.92	54.00	-2.08	55.22	-3.30	Average	---	---
4	2483.50	72.88	74.00	-1.12	76.18	-3.30	Peak	---	---
5	4924.00	32.63	54.00	-21.37	27.43	5.20	Average	---	---
6	4924.00	45.81	74.00	-28.19	40.61	5.20	Peak	---	---
7	7386.00	36.90	54.00	-17.10	27.51	9.39	Average	---	---
8	7386.00	49.77	74.00	-24.23	40.38	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	4



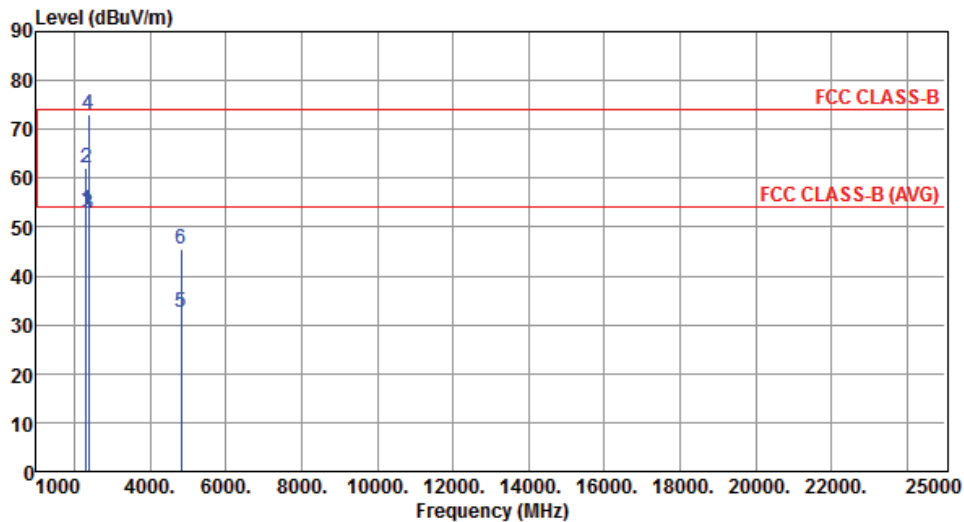
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.72	54.00	-3.28	54.68	-3.96	Average	---	---
2	2320.00	61.16	74.00	-12.84	65.12	-3.96	Peak	---	---
3	2483.50	51.57	54.00	-2.43	54.87	-3.30	Average	---	---
4	2483.50	72.54	74.00	-1.46	75.84	-3.30	Peak	---	---
5	4924.00	32.73	54.00	-21.27	27.53	5.20	Average	---	---
6	4924.00	45.69	74.00	-28.31	40.49	5.20	Peak	---	---
7	7386.00	36.77	54.00	-17.23	27.38	9.39	Average	---	---
8	7386.00	49.91	74.00	-24.09	40.52	9.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	4



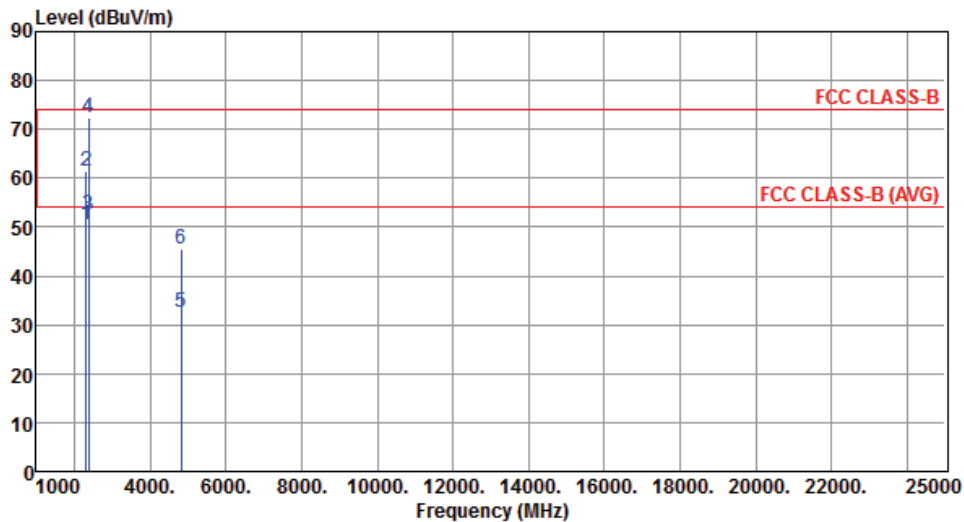
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.63	54.00	-0.37	57.59	-3.96	Average	---	---
2	2320.00	62.20	74.00	-11.80	66.16	-3.96	Peak	---	---
3	2390.00	52.88	54.00	-1.12	56.56	-3.68	Average	---	---
4	2390.00	73.00	74.00	-1.00	76.68	-3.68	Peak	---	---
5	4824.00	32.52	54.00	-21.48	27.53	4.99	Average	---	---
6	4824.00	45.66	74.00	-28.34	40.67	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	4



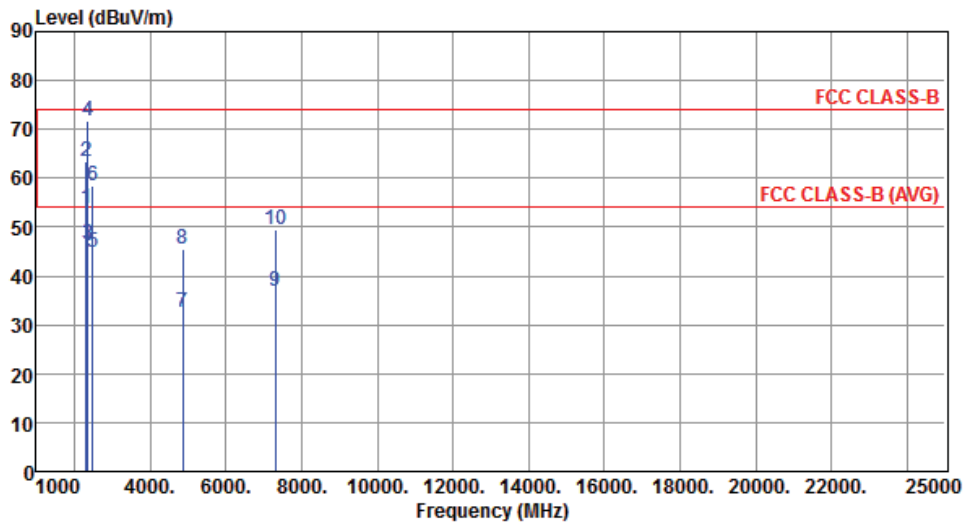
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.42	54.00	-3.58	54.38	-3.96	Average	---	---
2	2320.00	61.35	74.00	-12.65	65.31	-3.96	Peak	---	---
3	2390.00	52.46	54.00	-1.54	56.14	-3.68	Average	---	---
4	2390.00	72.41	74.00	-1.59	76.09	-3.68	Peak	---	---
5	4824.00	32.60	54.00	-21.40	27.61	4.99	Average	---	---
6	4824.00	45.37	74.00	-28.63	40.38	4.99	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



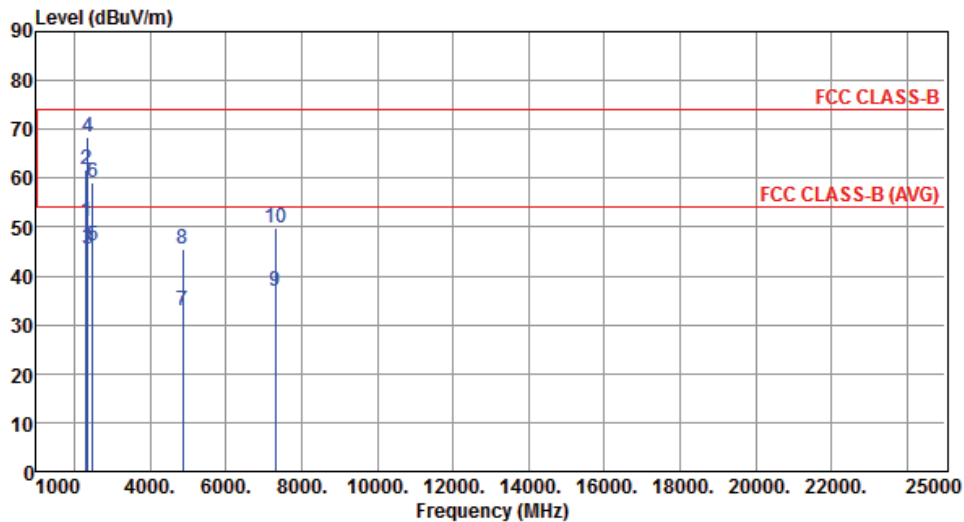
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.87	54.00	-0.13	57.83	-3.96	Average	---	---
2	2320.00	63.47	74.00	-10.53	67.43	-3.96	Peak	---	---
3	2352.00	46.46	54.00	-7.54	50.31	-3.85	Average	---	---
4	2352.00	71.78	74.00	-2.22	75.63	-3.85	Peak	---	---
5	2483.50	44.79	54.00	-9.21	48.09	-3.30	Average	---	---
6	2483.50	58.35	74.00	-15.65	61.65	-3.30	Peak	---	---
7	4874.00	32.66	54.00	-21.34	27.56	5.10	Average	---	---
8	4874.00	45.47	74.00	-28.53	40.37	5.10	Peak	---	---
9	7311.00	36.77	54.00	-17.23	27.44	9.33	Average	---	---
10	7311.00	49.61	74.00	-24.39	40.28	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



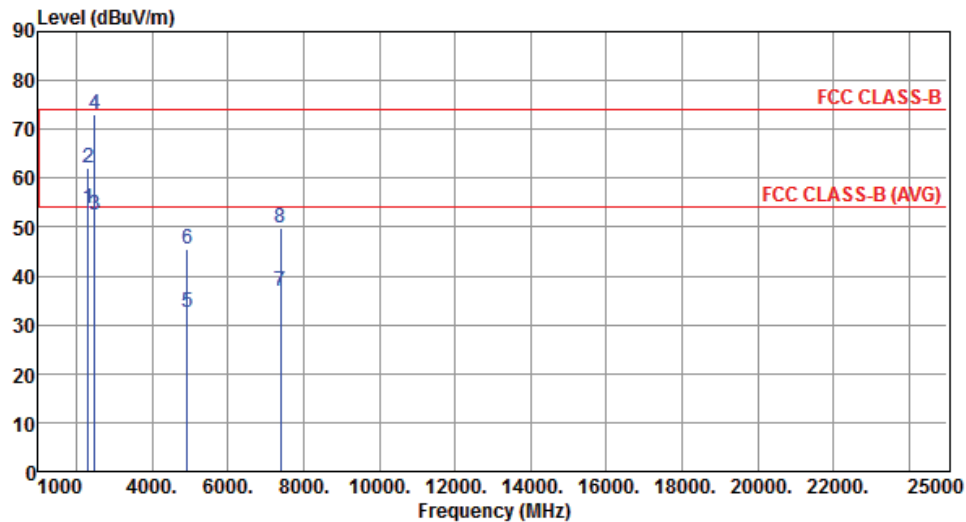
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.25	54.00	-2.75	55.21	-3.96	Average	---	---
2	2320.00	61.77	74.00	-12.23	65.73	-3.96	Peak	---	---
3	2352.00	45.40	54.00	-8.60	49.25	-3.85	Average	---	---
4	2352.00	68.54	74.00	-5.46	72.39	-3.85	Peak	---	---
5	2483.50	46.24	54.00	-7.76	49.54	-3.30	Average	---	---
6	2483.50	59.09	74.00	-14.91	62.39	-3.30	Peak	---	---
7	4874.00	32.72	54.00	-21.28	27.62	5.10	Average	---	---
8	4874.00	45.63	74.00	-28.37	40.53	5.10	Peak	---	---
9	7311.00	36.75	54.00	-17.25	27.42	9.33	Average	---	---
10	7311.00	49.71	74.00	-24.29	40.38	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	4



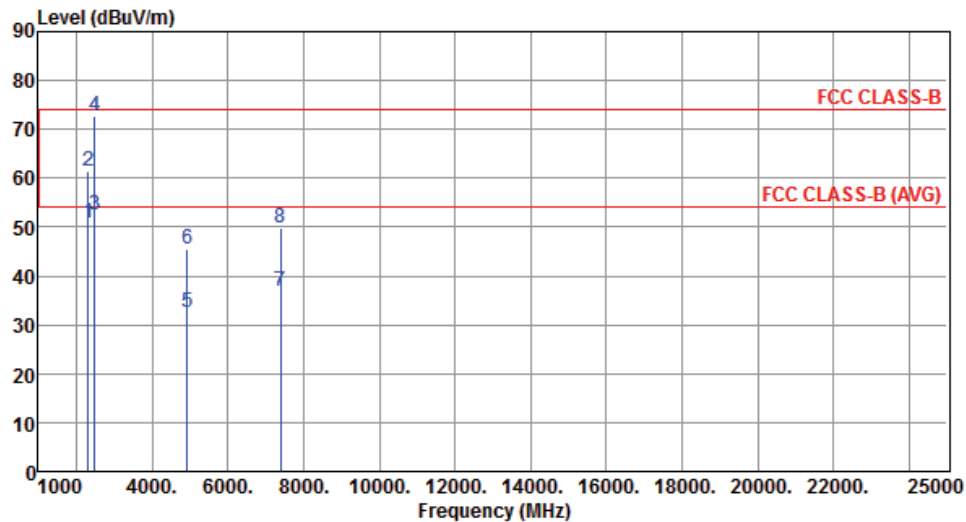
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.70	54.00	-0.30	57.66	-3.96	Average	---	---
2	2320.00	62.19	74.00	-11.81	66.15	-3.96	Peak	---	---
3	2483.50	52.55	54.00	-1.45	55.85	-3.30	Average	---	---
4	2483.50	72.93	74.00	-1.07	76.23	-3.30	Peak	---	---
5	4924.00	32.71	54.00	-21.29	27.51	5.20	Average	---	---
6	4924.00	45.51	74.00	-28.49	40.31	5.20	Peak	---	---
7	7386.00	36.87	54.00	-17.13	27.48	9.39	Average	---	---
8	7386.00	49.72	74.00	-24.28	40.33	9.39	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	4



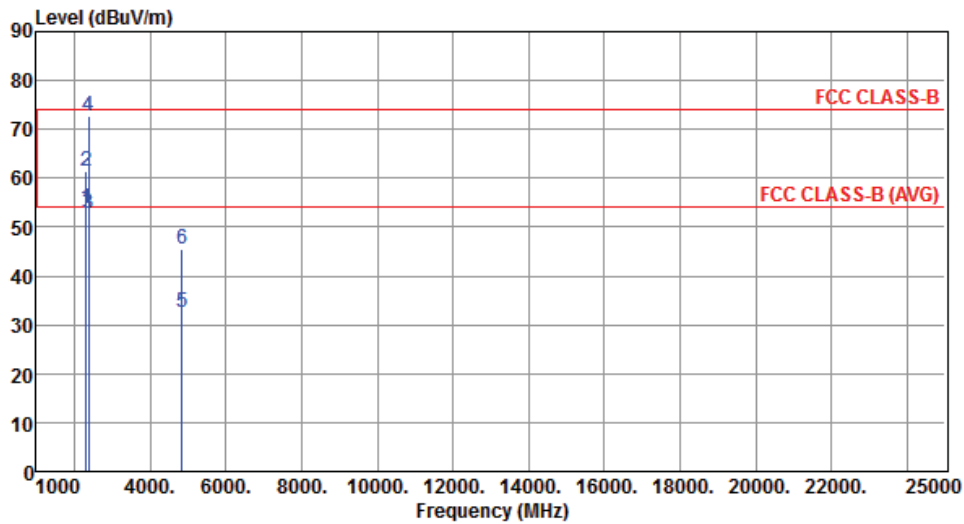
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.65	54.00	-3.35	54.61	-3.96	Average	---	---
2	2320.00	61.42	74.00	-12.58	65.38	-3.96	Peak	---	---
3	2483.50	52.32	54.00	-1.68	55.62	-3.30	Average	---	---
4	2483.50	72.64	74.00	-1.36	75.94	-3.30	Peak	---	---
5	4924.00	32.62	54.00	-21.38	27.42	5.20	Average	---	---
6	4924.00	45.58	74.00	-28.42	40.38	5.20	Peak	---	---
7	7386.00	37.03	54.00	-16.97	27.64	9.39	Average	---	---
8	7386.00	49.96	74.00	-24.04	40.57	9.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	4



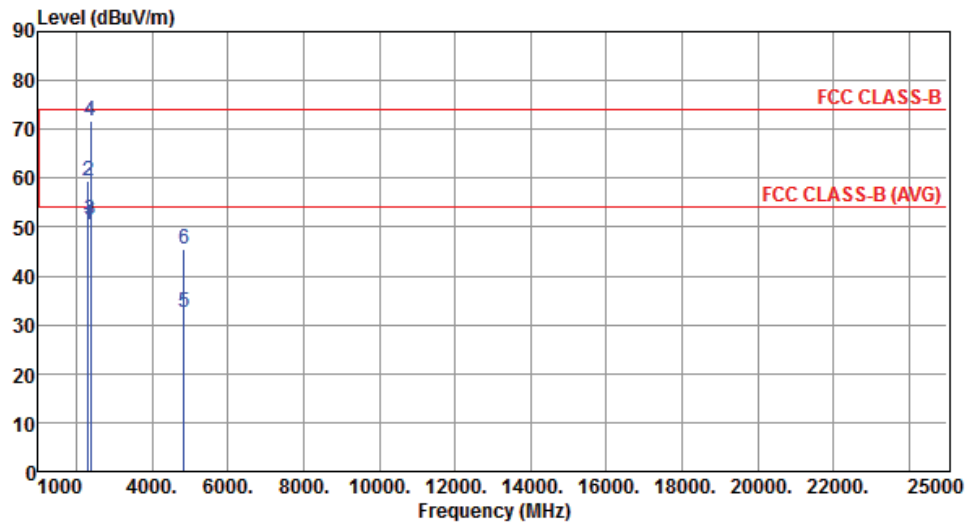
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.80	54.00	-0.20	57.76	-3.96	Average	---	---
2	2320.00	61.32	74.00	-12.68	65.28	-3.96	Peak	---	---
3	2390.00	52.84	54.00	-1.16	56.52	-3.68	Average	---	---
4	2390.00	72.80	74.00	-1.20	76.48	-3.68	Peak	---	---
5	4844.00	32.65	54.00	-21.35	27.62	5.03	Average	---	---
6	4844.00	45.35	74.00	-28.65	40.32	5.03	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	4



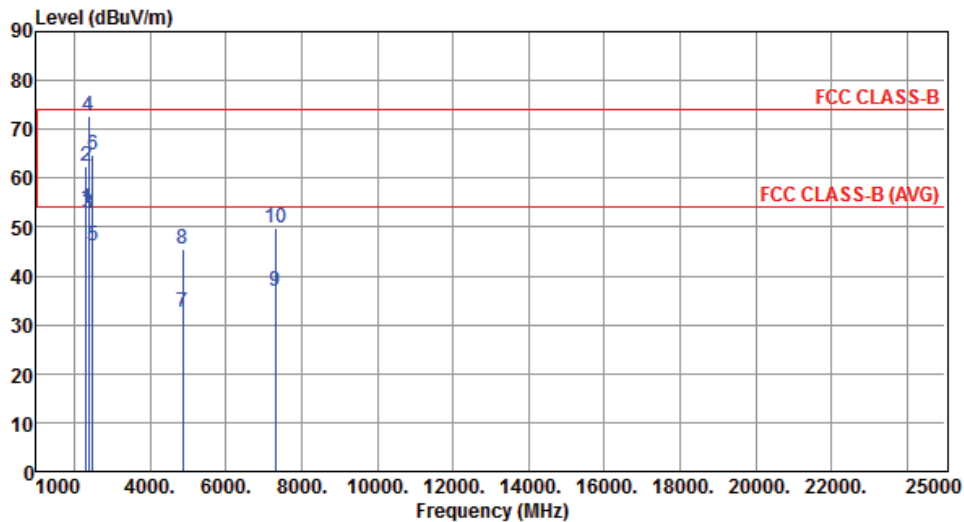
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.54	54.00	-3.46	54.50	-3.96	Average	---	---
2	2320.00	59.60	74.00	-14.40	63.56	-3.96	Peak	---	---
3	2390.00	51.63	54.00	-2.37	55.31	-3.68	Average	---	---
4	2390.00	71.79	74.00	-2.21	75.47	-3.68	Peak	---	---
5	4844.00	32.63	54.00	-21.37	27.60	5.03	Average	---	---
6	4844.00	45.57	74.00	-28.43	40.54	5.03	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



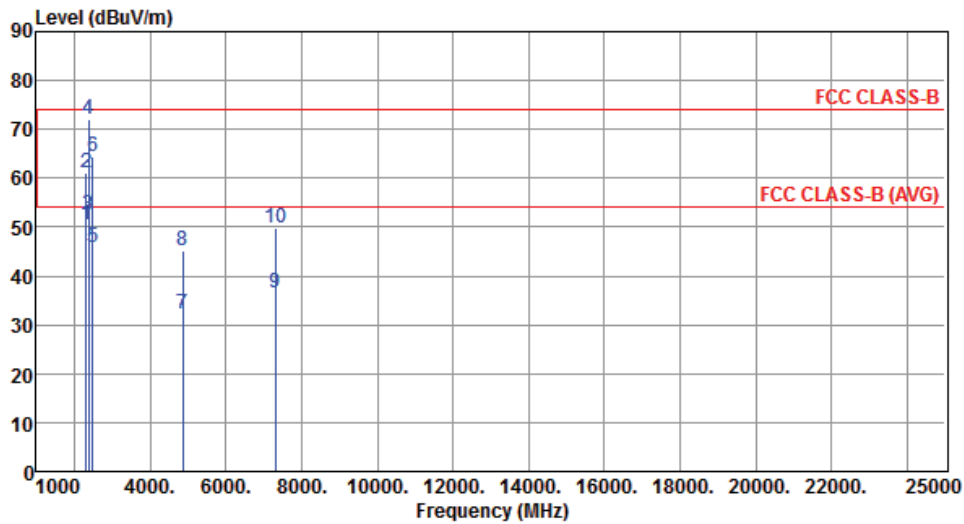
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.68	54.00	-0.32	57.64	-3.96	Average	---	---
2	2320.00	62.34	74.00	-11.66	66.30	-3.96	Peak	---	---
3	2390.00	52.78	54.00	-1.22	56.46	-3.68	Average	---	---
4	2390.00	72.84	74.00	-1.16	76.52	-3.68	Peak	---	---
5	2483.50	46.10	54.00	-7.90	49.40	-3.30	Average	---	---
6	2483.50	64.84	74.00	-9.16	68.14	-3.30	Peak	---	---
7	4874.00	32.51	54.00	-21.49	27.41	5.10	Average	---	---
8	4874.00	45.44	74.00	-28.56	40.34	5.10	Peak	---	---
9	7311.00	36.82	54.00	-17.18	27.49	9.33	Average	---	---
10	7311.00	49.80	74.00	-24.20	40.47	9.33	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



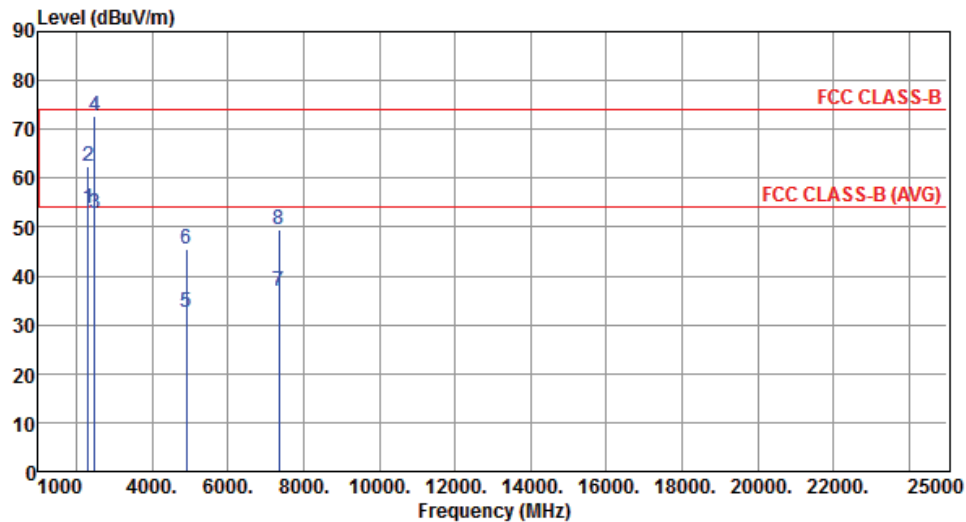
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	50.57	54.00	-3.43	54.53	-3.96	Average	---	---
2	2320.00	61.25	74.00	-12.75	65.21	-3.96	Peak	---	---
3	2390.00	52.41	54.00	-1.59	56.09	-3.68	Average	---	---
4	2390.00	72.13	74.00	-1.87	75.81	-3.68	Peak	---	---
5	2483.50	45.84	54.00	-8.16	49.14	-3.30	Average	---	---
6	2483.50	64.54	74.00	-9.46	67.84	-3.30	Peak	---	---
7	4874.00	32.32	54.00	-21.68	27.22	5.10	Average	---	---
8	4874.00	45.26	74.00	-28.74	40.16	5.10	Peak	---	---
9	7311.00	36.67	54.00	-17.33	27.34	9.33	Average	---	---
10	7311.00	49.82	74.00	-24.18	40.49	9.33	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	4



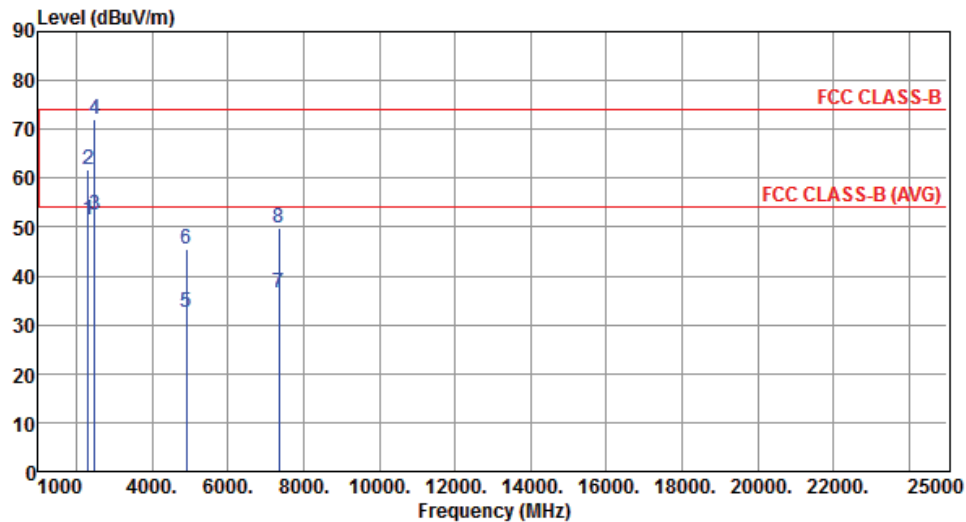
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	53.77	54.00	-0.23	57.73	-3.96	Average	---	---
2	2320.00	62.29	74.00	-11.71	66.25	-3.96	Peak	---	---
3	2483.50	52.84	54.00	-1.16	56.14	-3.30	Average	---	---
4	2483.50	72.74	74.00	-1.26	76.04	-3.30	Peak	---	---
5	4904.00	32.69	54.00	-21.31	27.53	5.16	Average	---	---
6	4904.00	45.47	74.00	-28.53	40.31	5.16	Peak	---	---
7	7356.00	36.81	54.00	-17.19	27.45	9.36	Average	---	---
8	7356.00	49.65	74.00	-24.35	40.29	9.36	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2320.00	51.35	54.00	-2.65	55.31	-3.96	Average	---	---
2	2320.00	61.87	74.00	-12.13	65.83	-3.96	Peak	---	---
3	2483.50	52.58	54.00	-1.42	55.88	-3.30	Average	---	---
4	2483.50	72.09	74.00	-1.91	75.39	-3.30	Peak	---	---
5	4904.00	32.62	54.00	-21.38	27.46	5.16	Average	---	---
6	4904.00	45.44	74.00	-28.56	40.28	5.16	Peak	---	---
7	7356.00	36.59	54.00	-17.41	27.23	9.36	Average	---	---
8	7356.00	49.90	74.00	-24.10	40.54	9.36	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

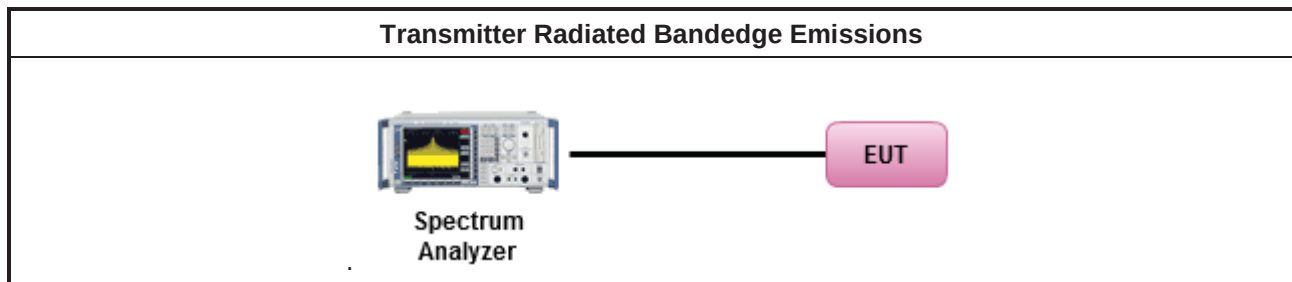
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.4 Test Setup

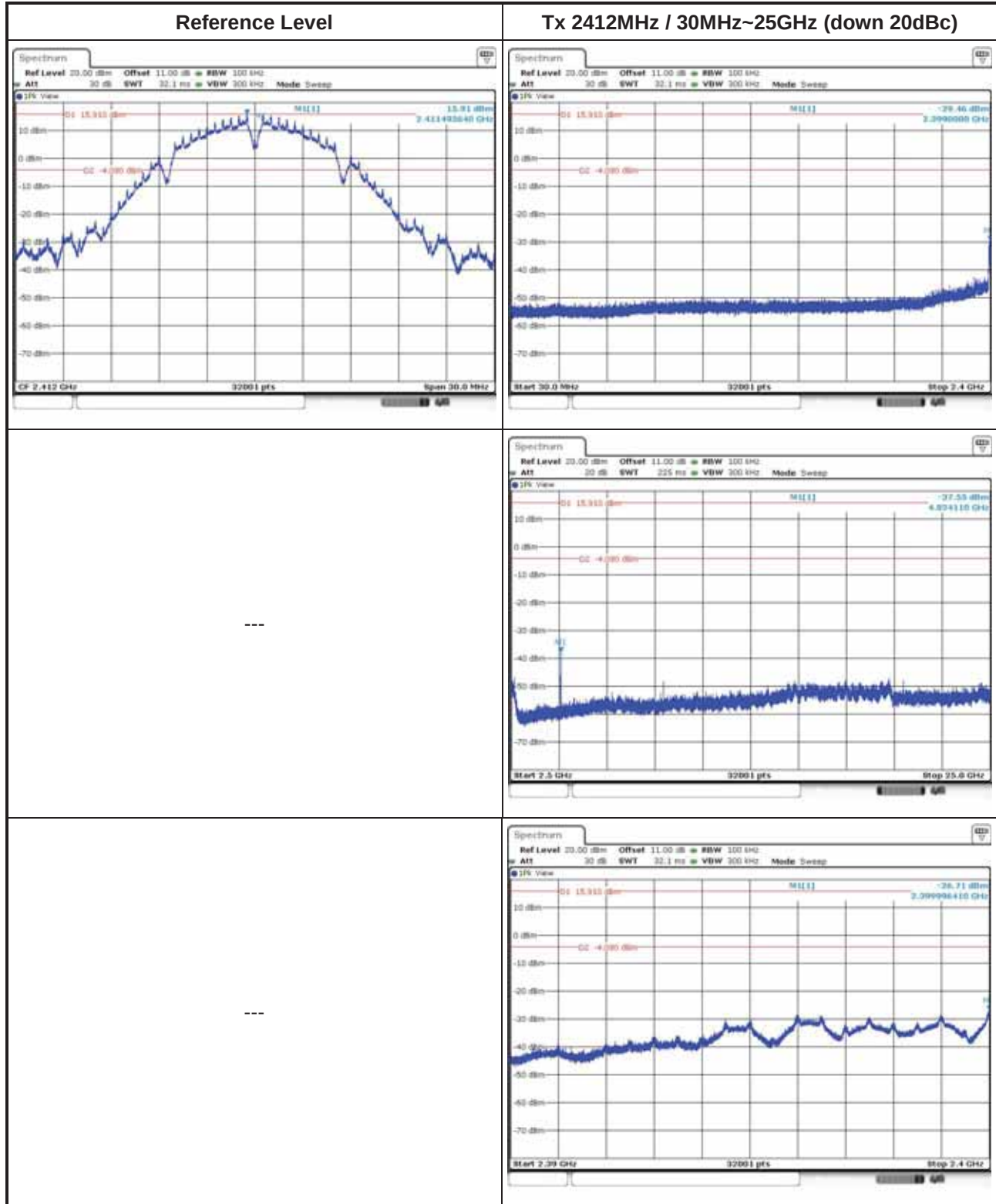


3.6.5 Test Result of Emissions in non-restricted frequency bands

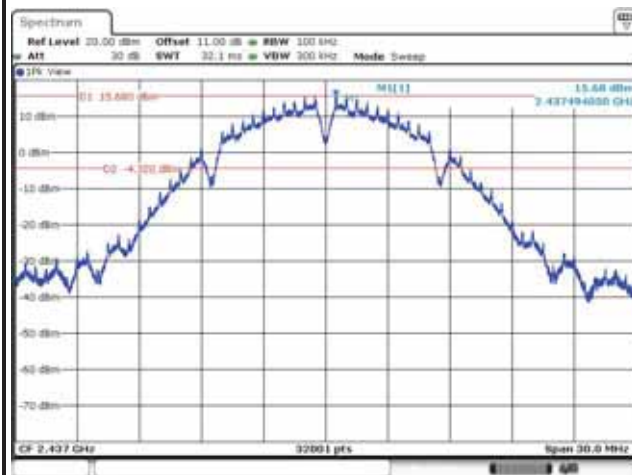
This test item is performed on each TX output individually without summing or adding $10 \log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands (Configuration 1: Internal PIFA antenna)

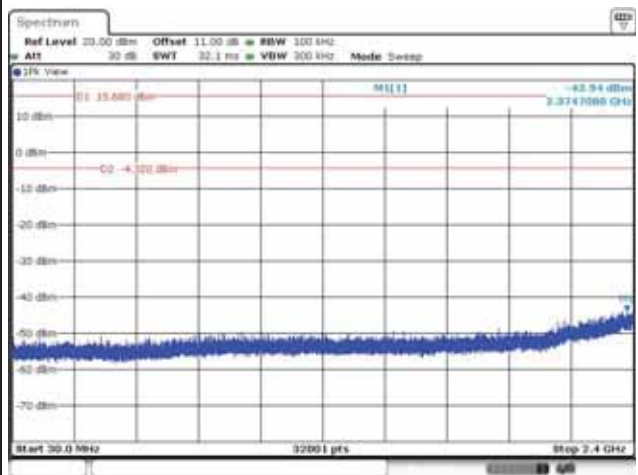
802.11b

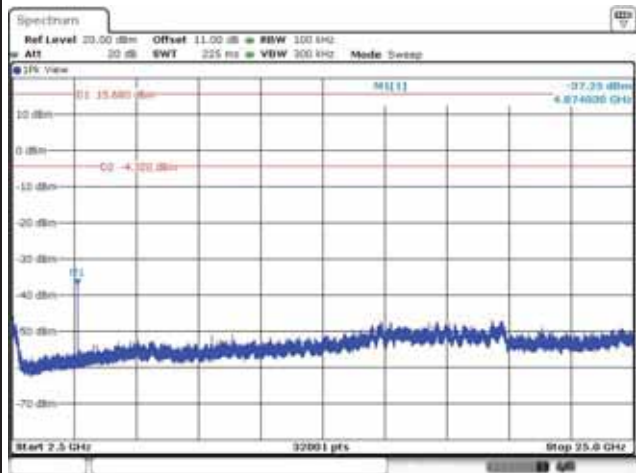


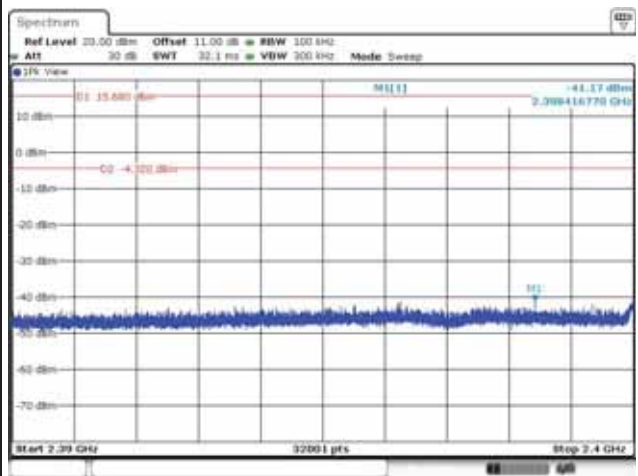
Reference Level



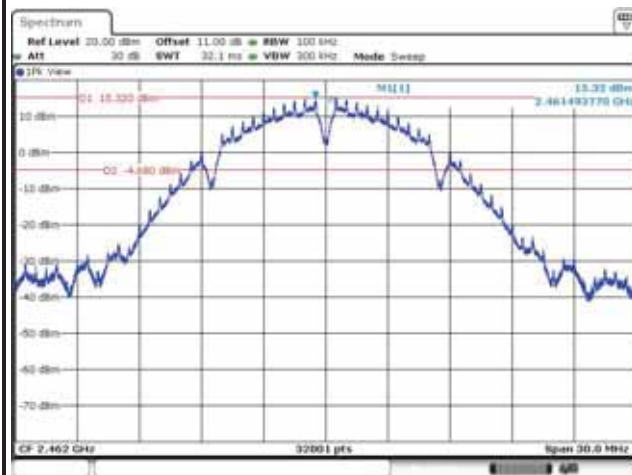
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



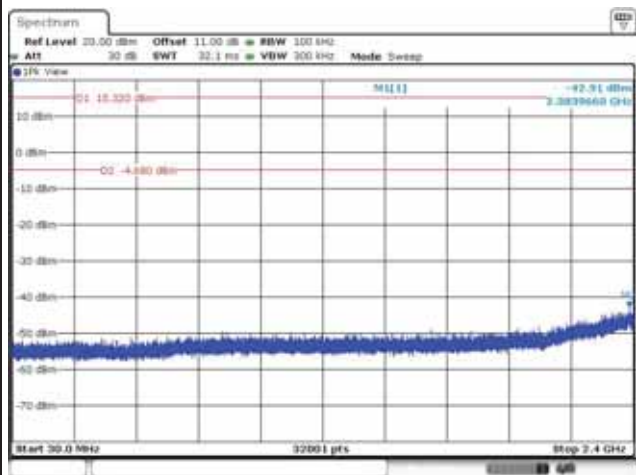


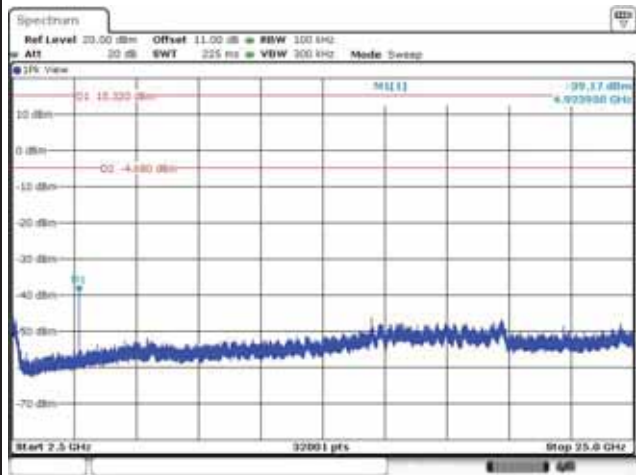


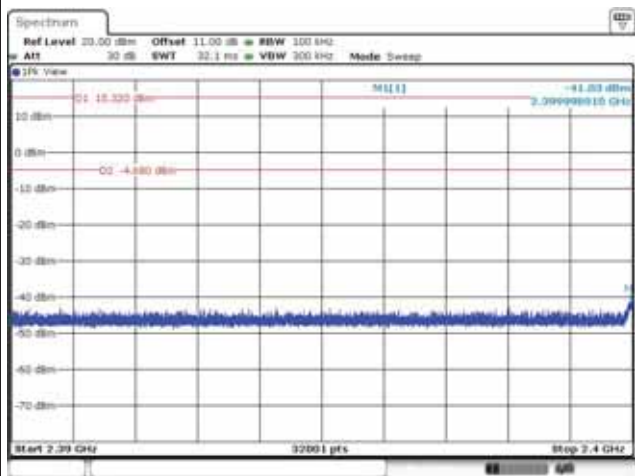
Reference Level



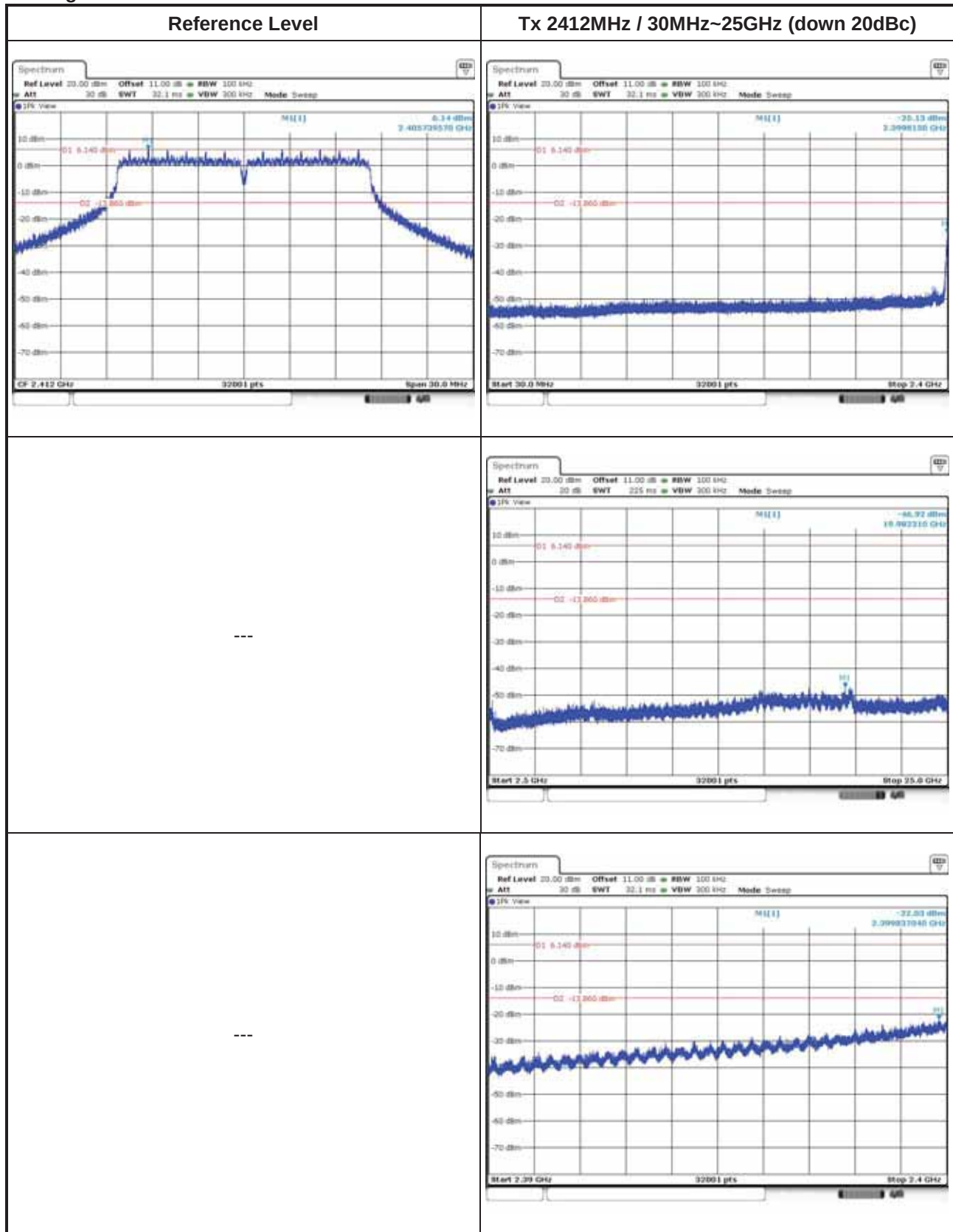
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



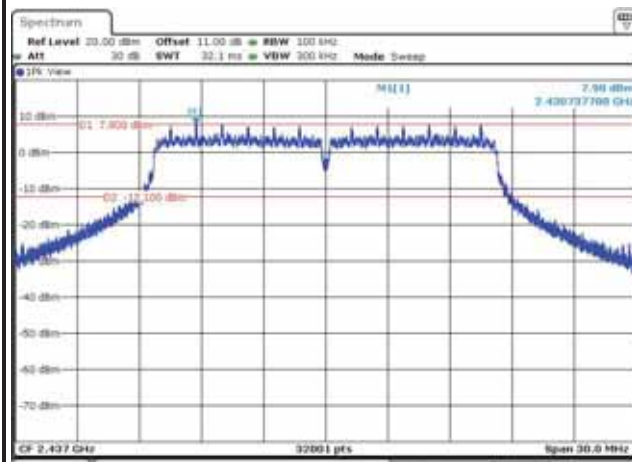




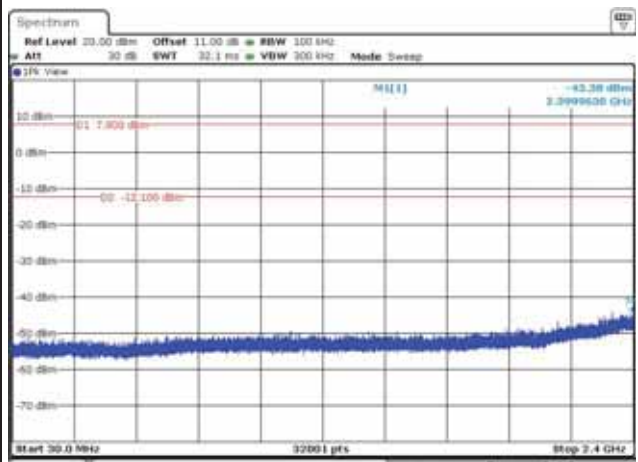
802.11g

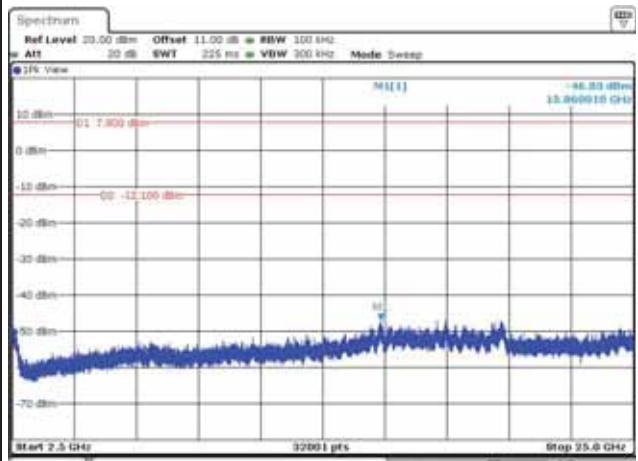


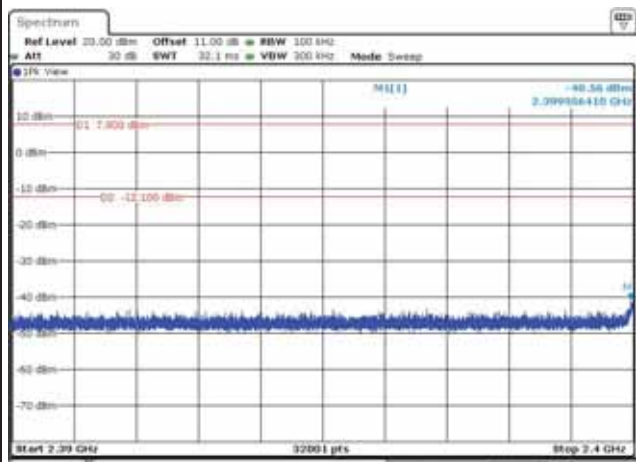
Reference Level



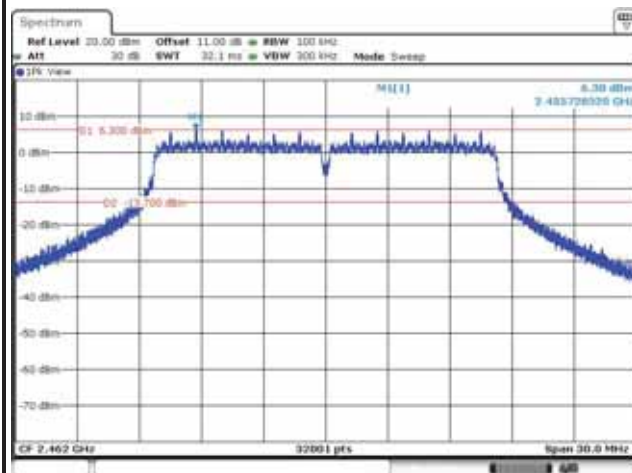
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



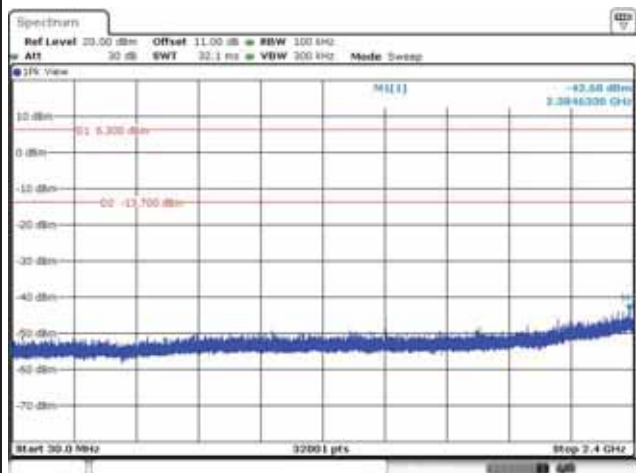


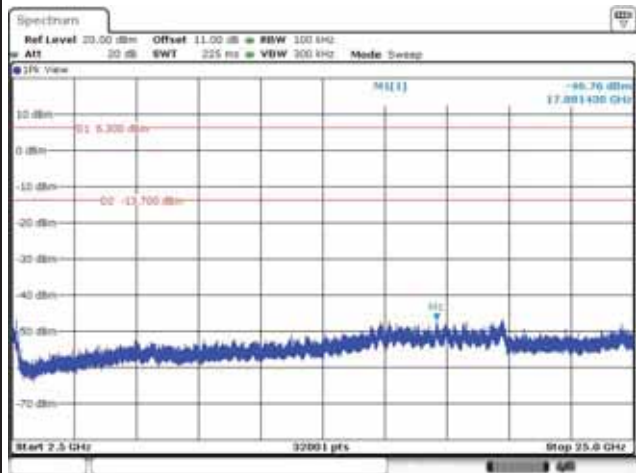


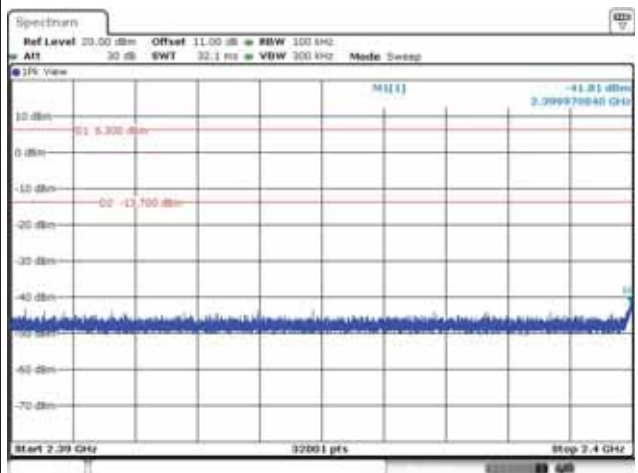
Reference Level



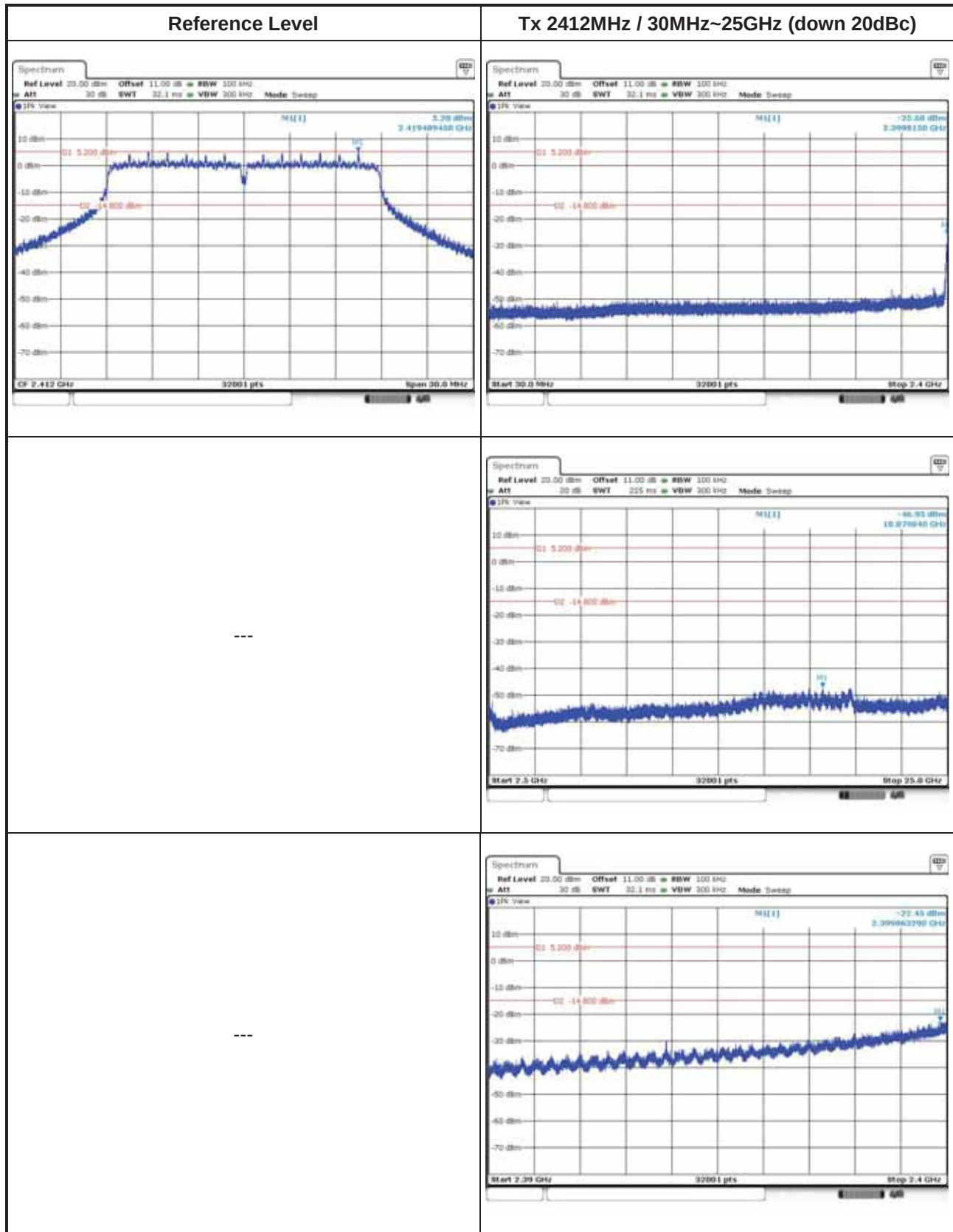
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



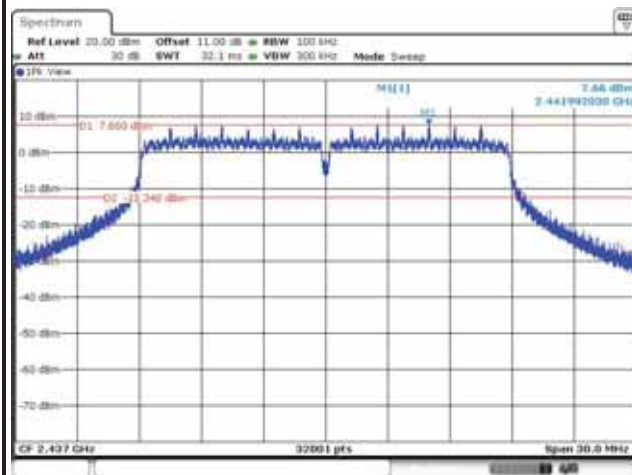




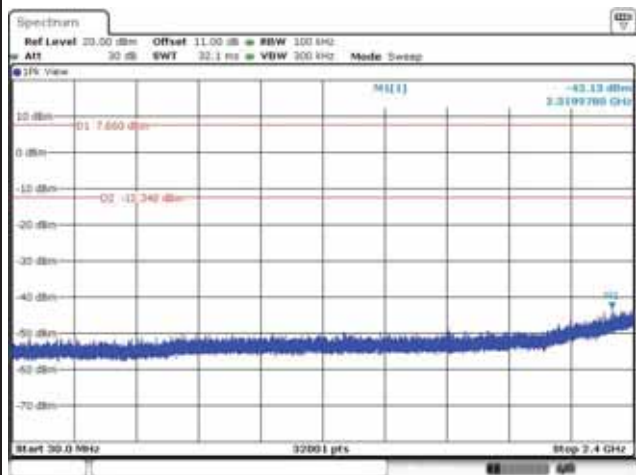
802.11n HT20

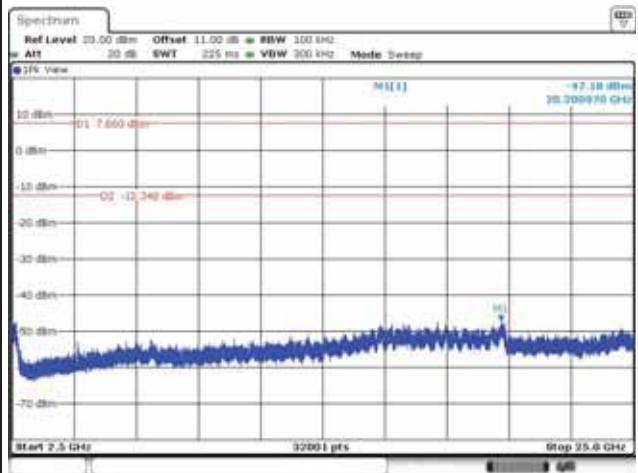


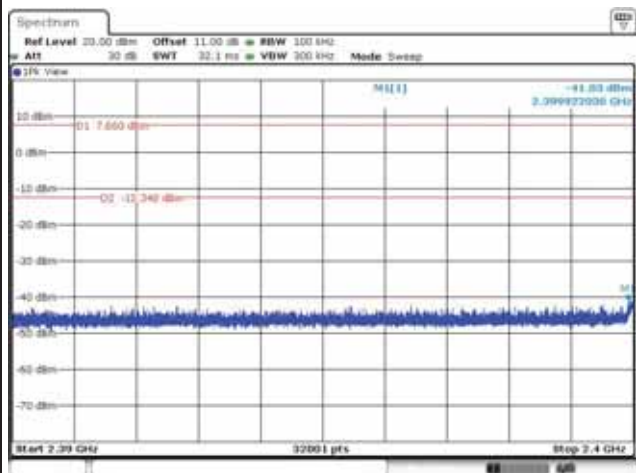
Reference Level



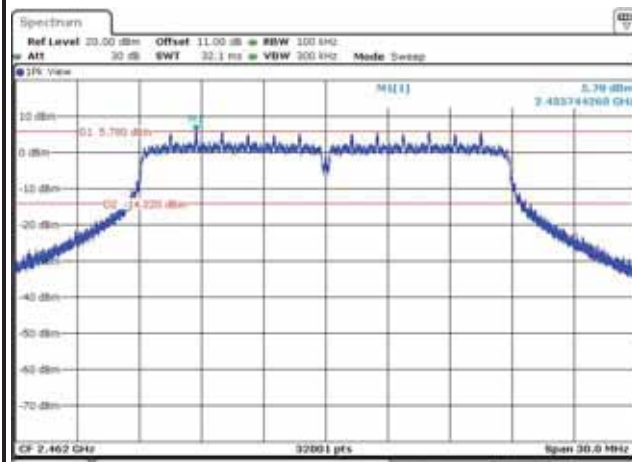
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



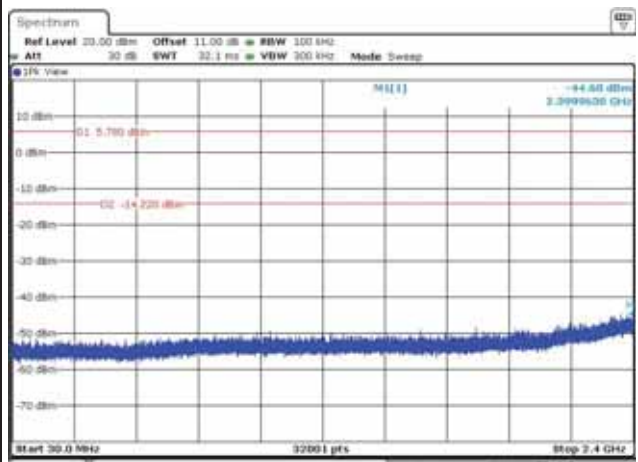


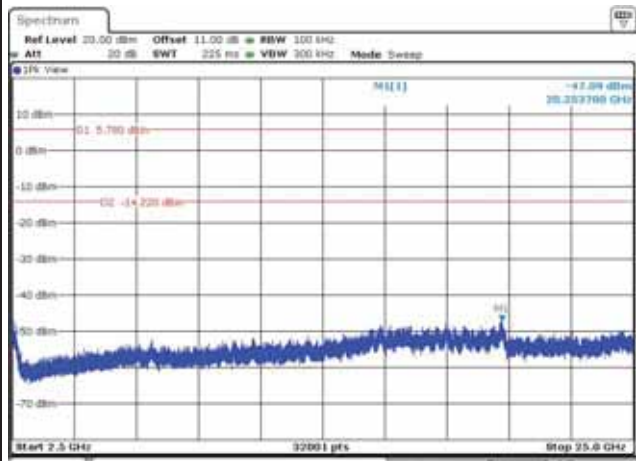


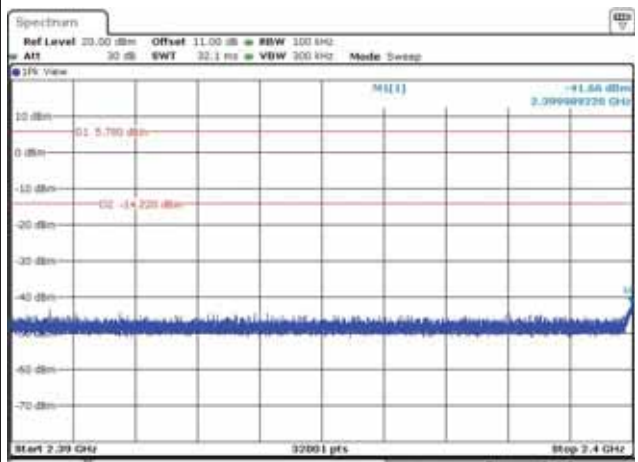
Reference Level



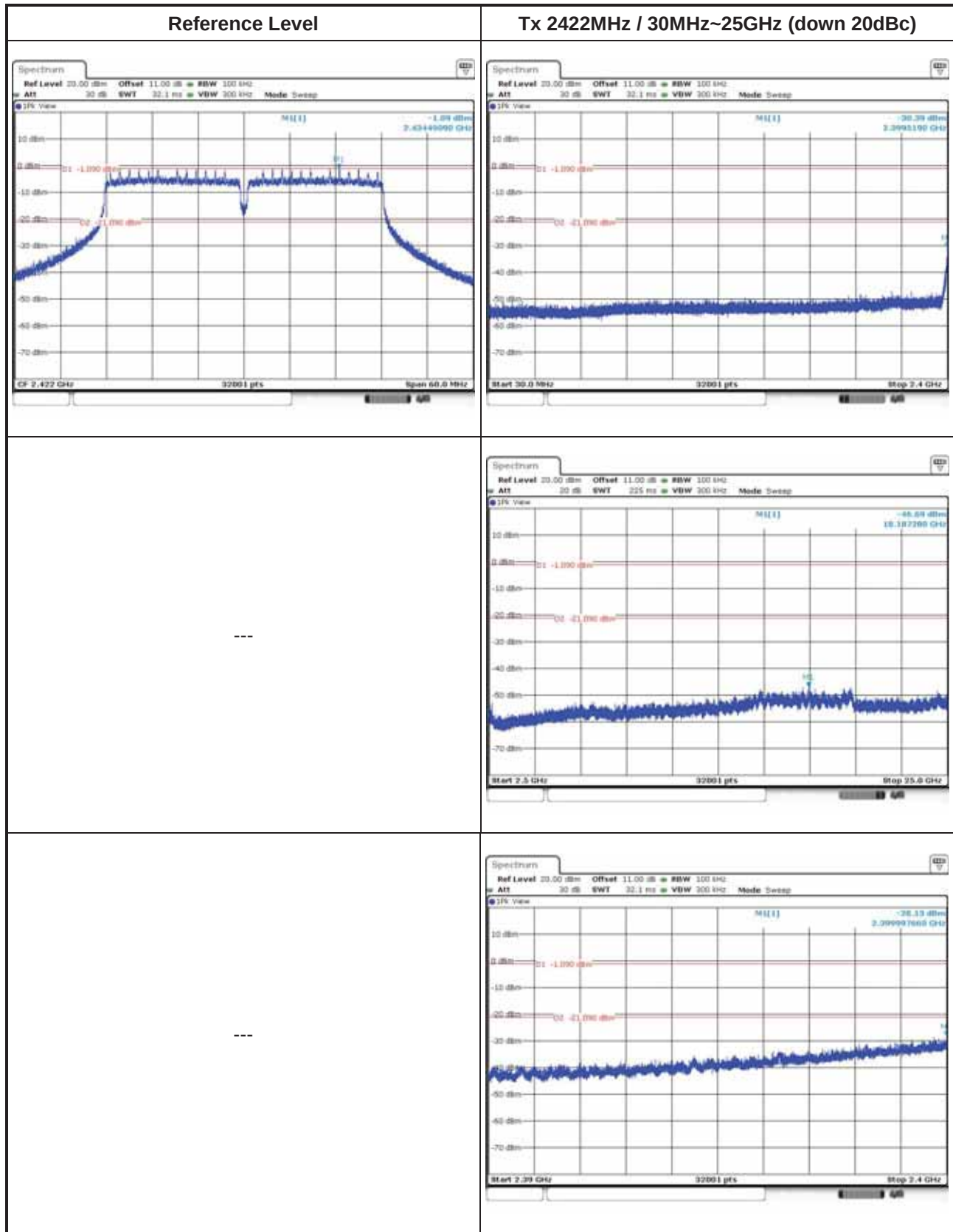
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



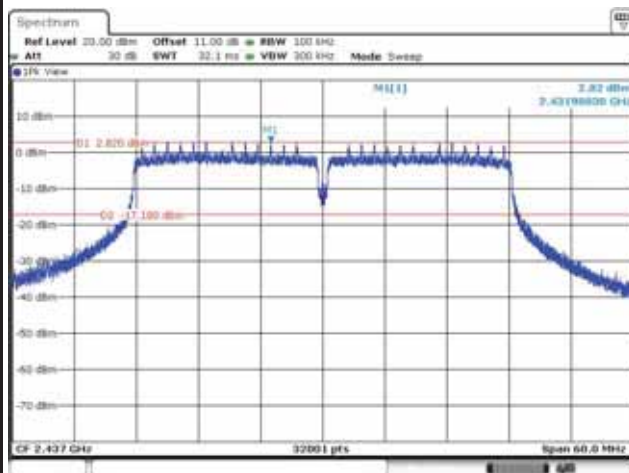




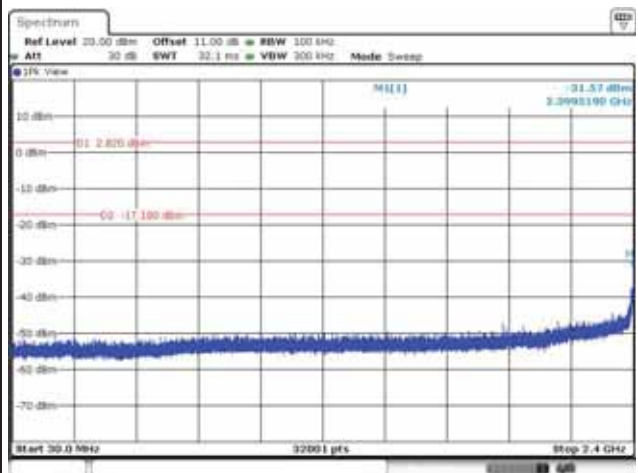
802.11n HT40

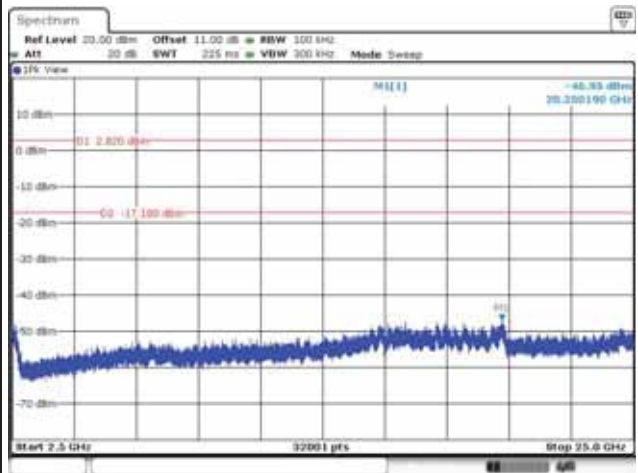


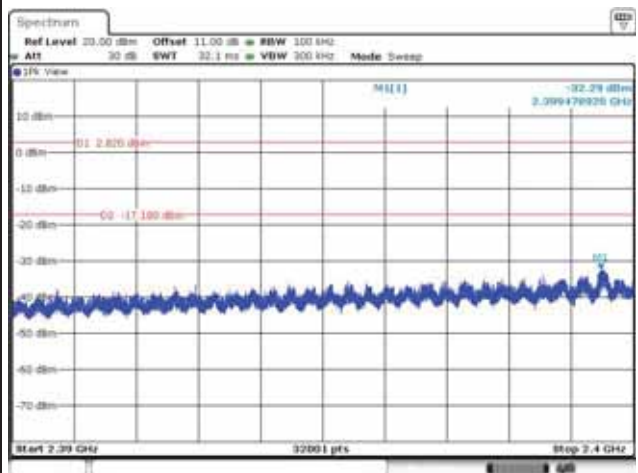
Reference Level



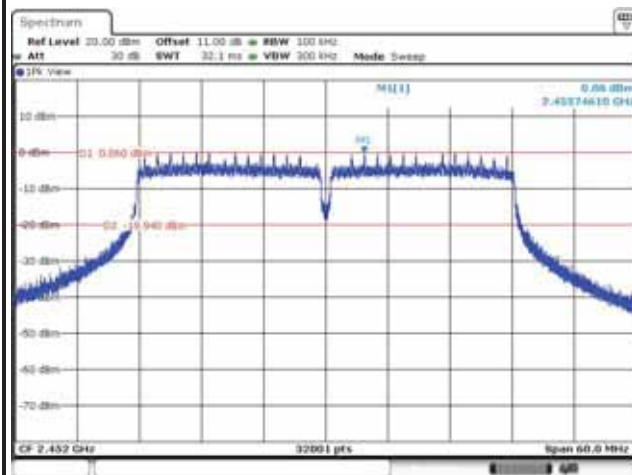
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



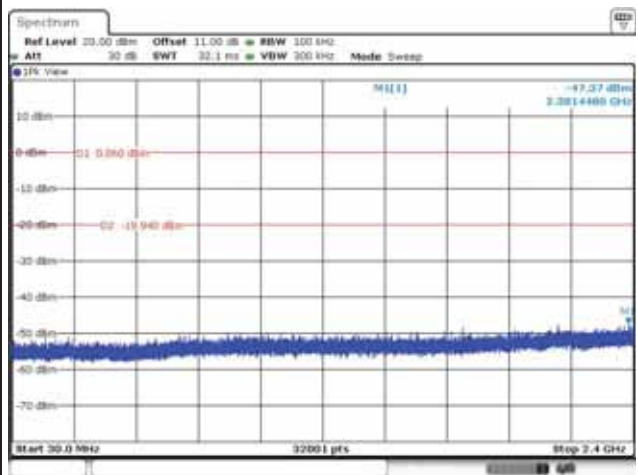


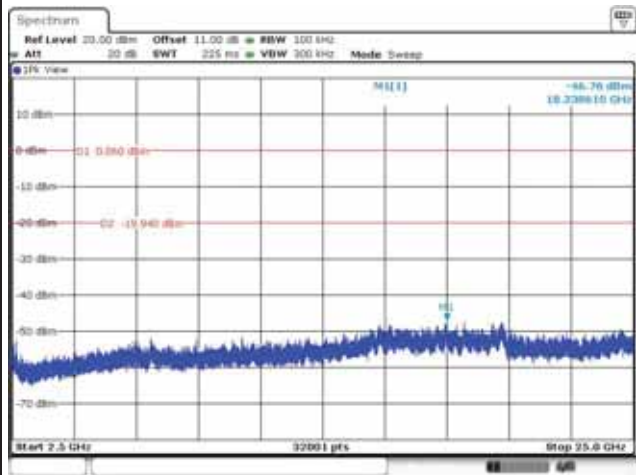


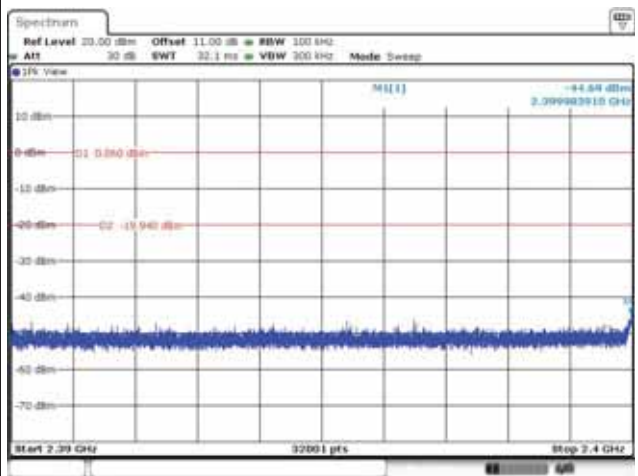
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)

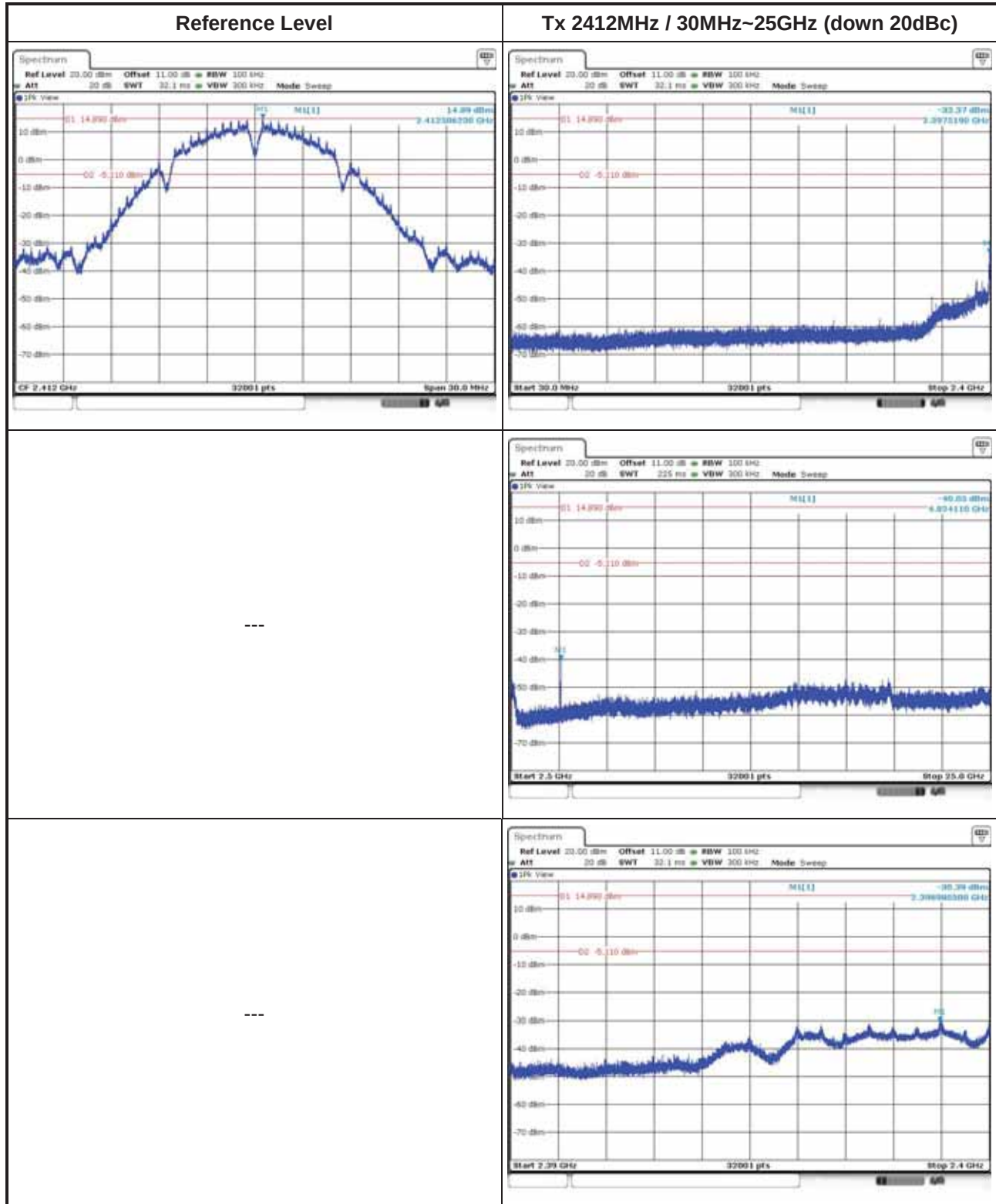




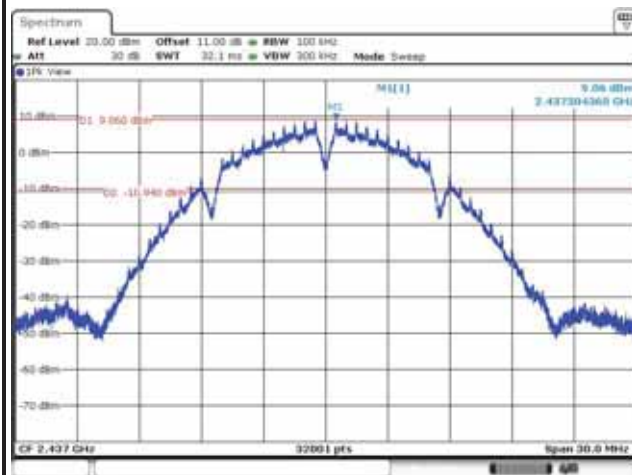


3.6.7 Unwanted Emissions into Non-Restricted Frequency Bands (Configuration 2: External Dipole antenna)

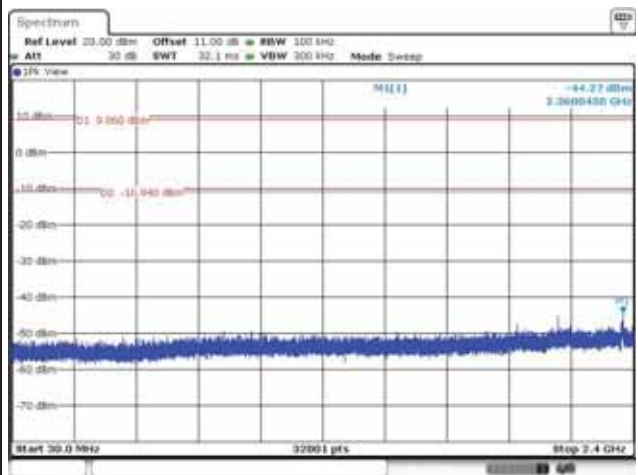
802.11b

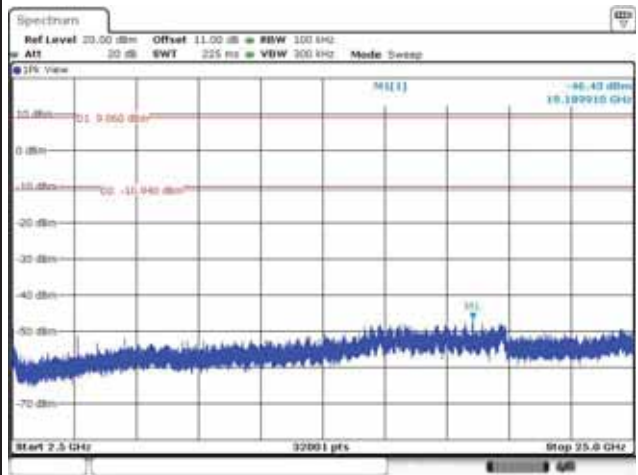


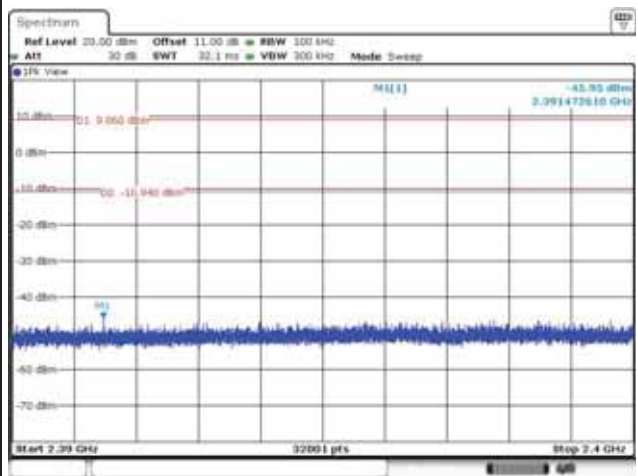
Reference Level



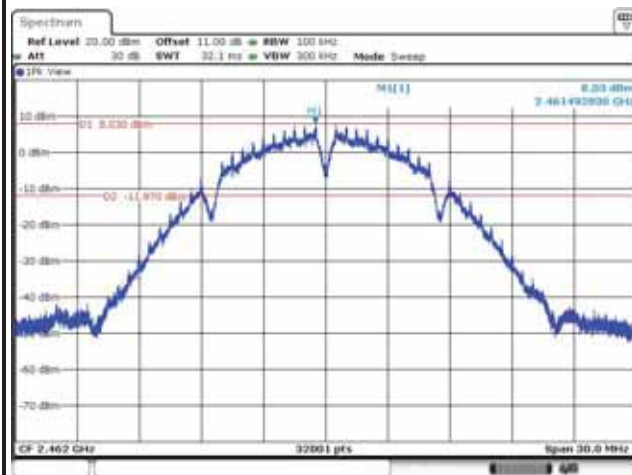
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



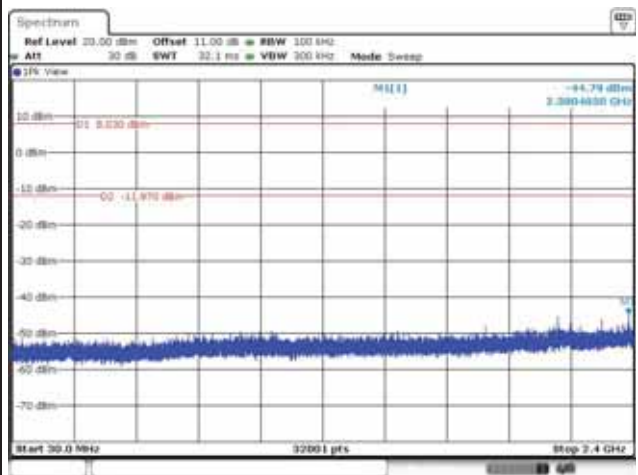


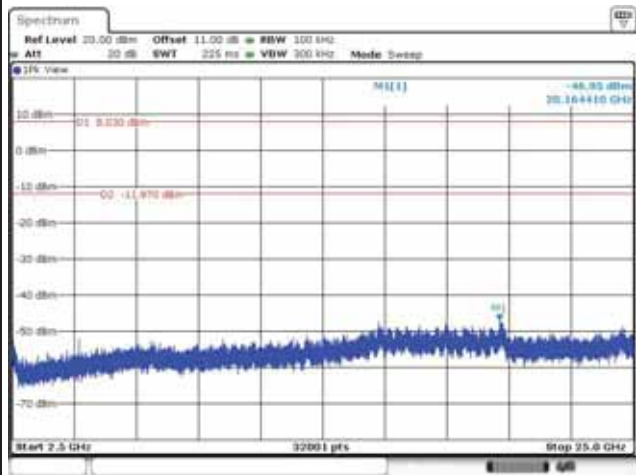


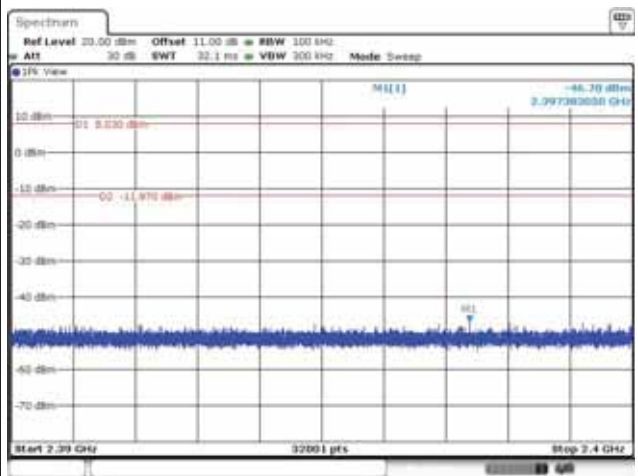
Reference Level



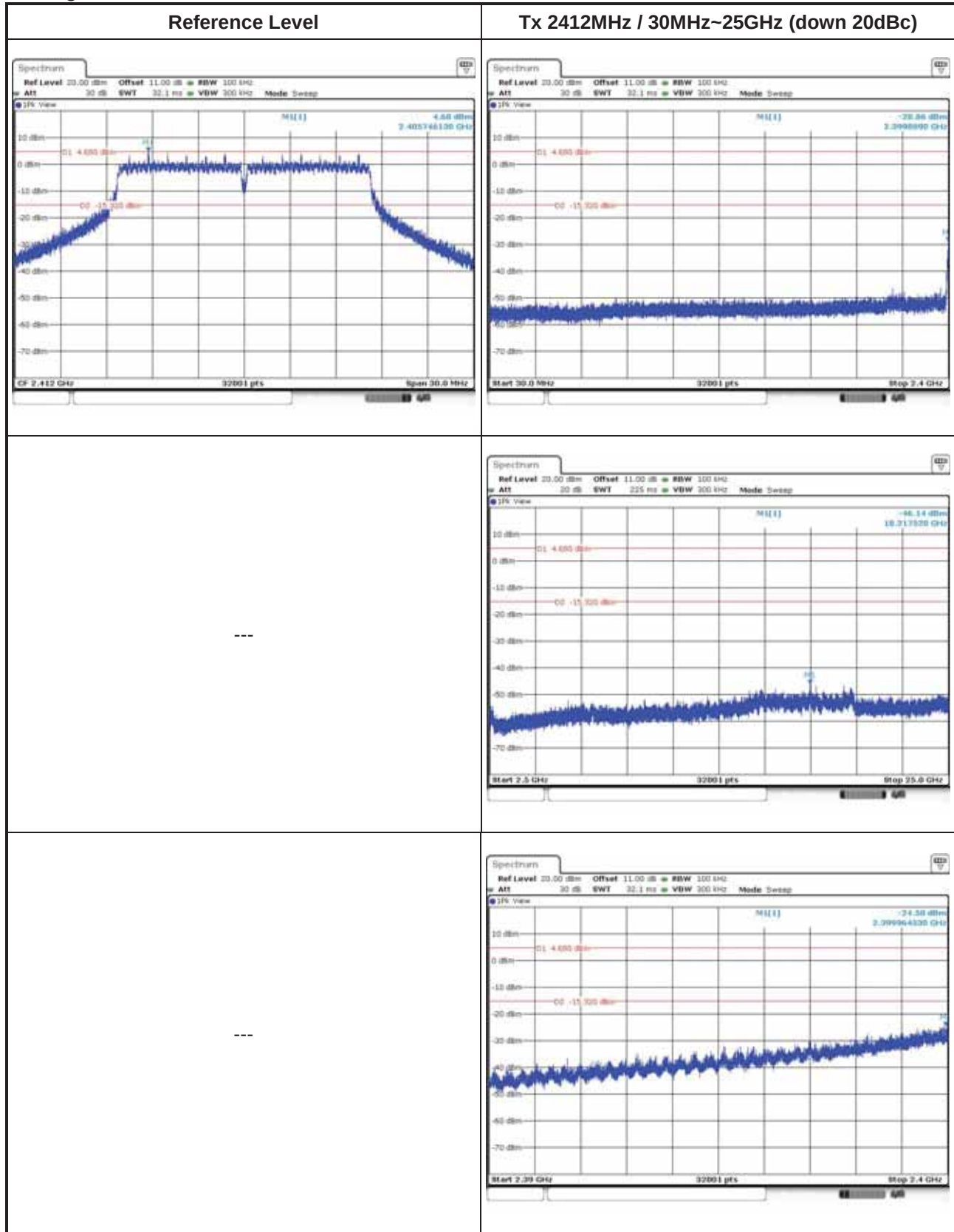
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



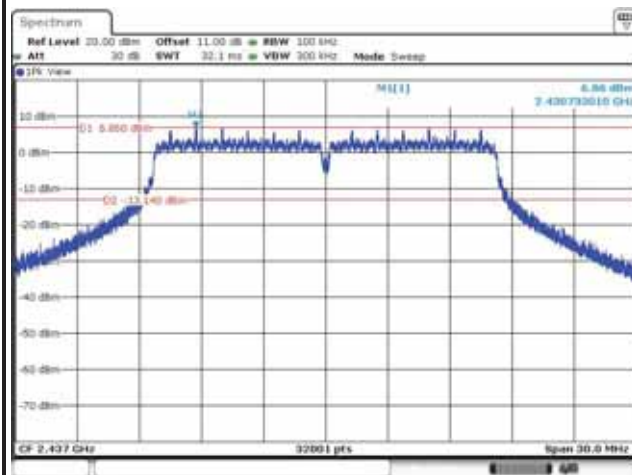




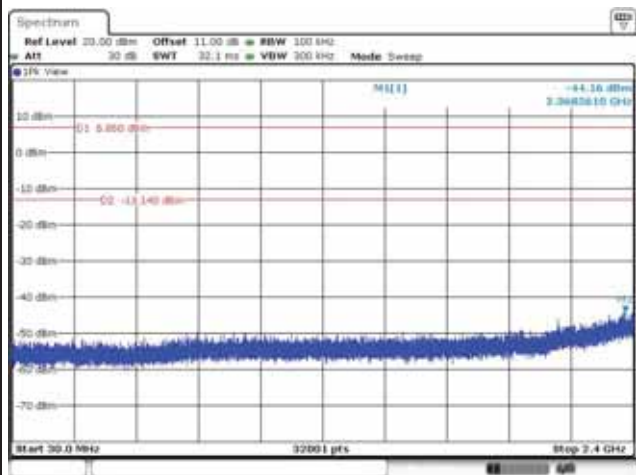
802.11g

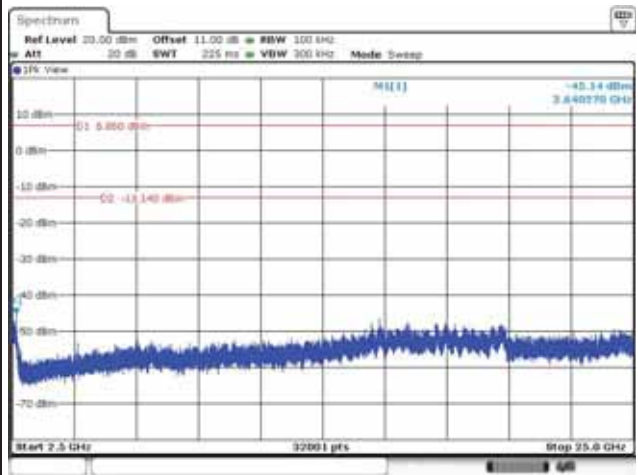


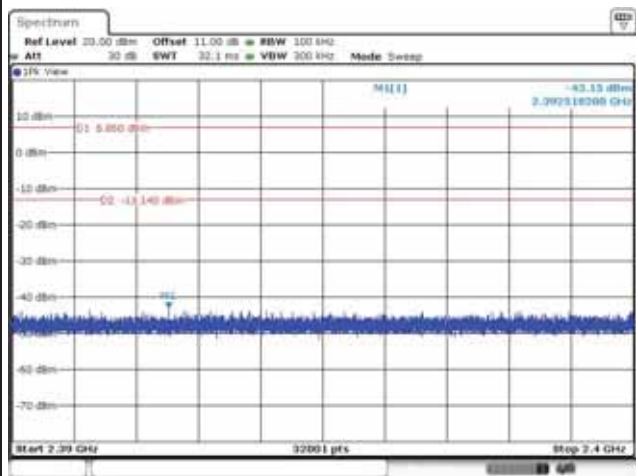
Reference Level



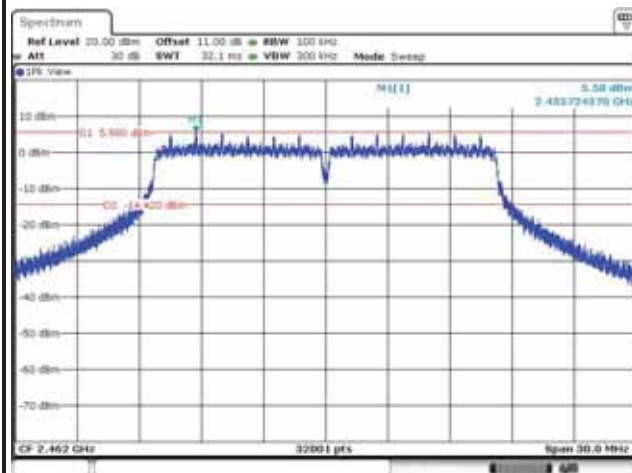
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



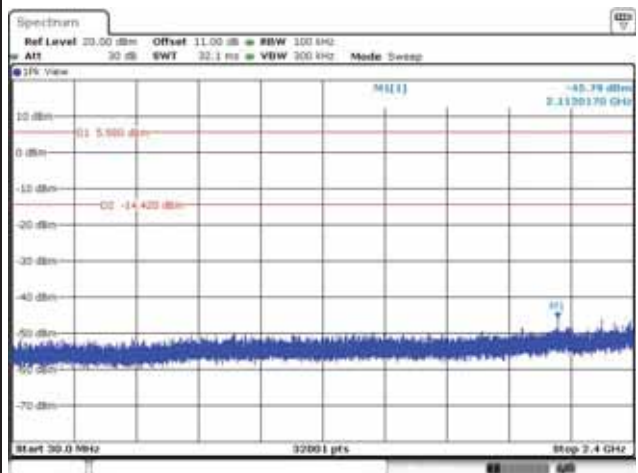


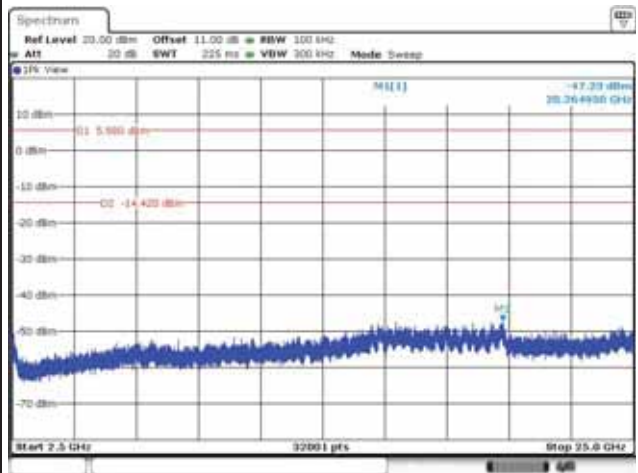


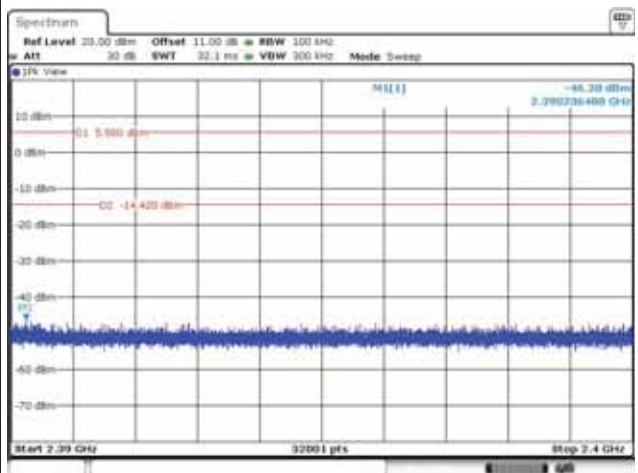
Reference Level



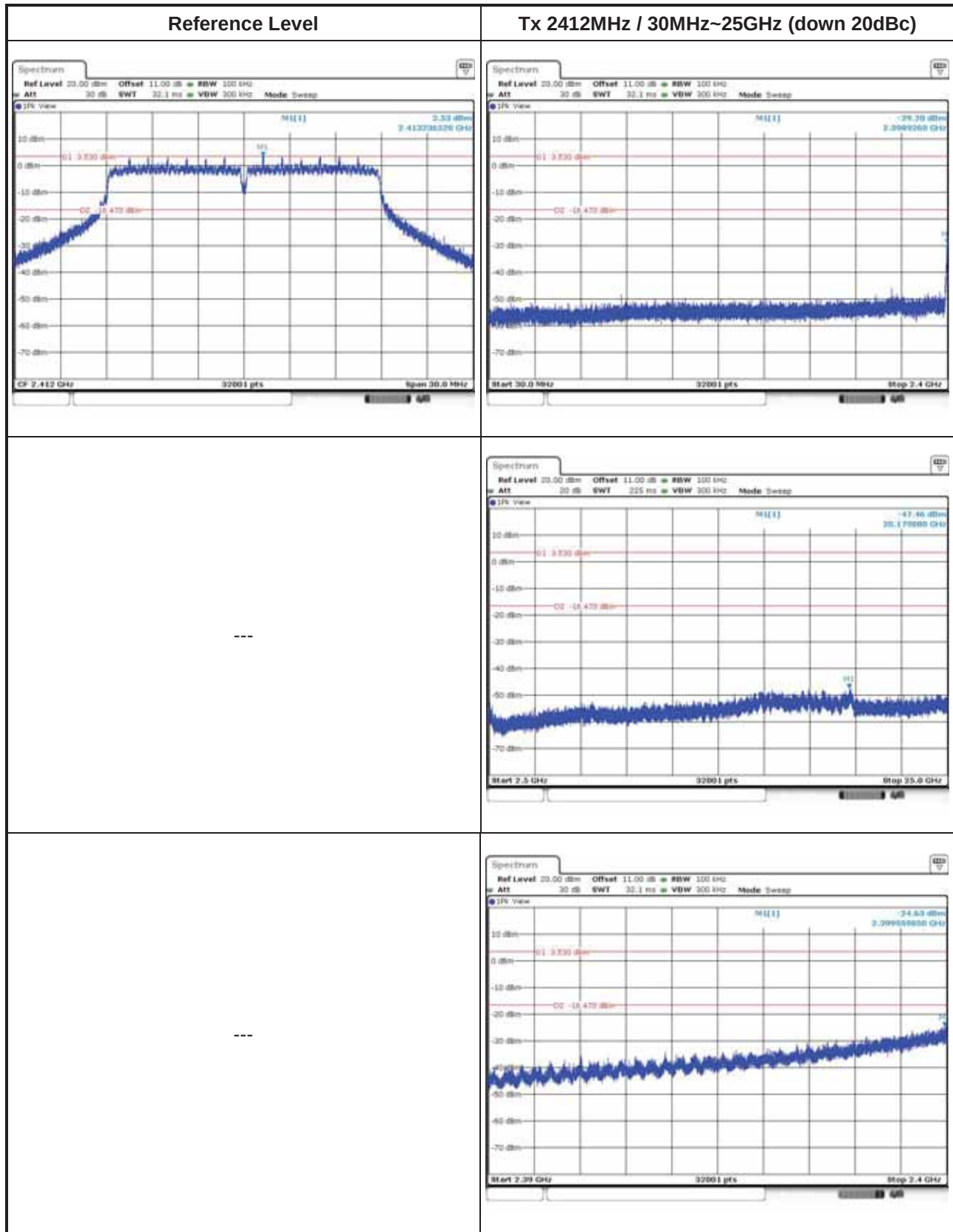
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



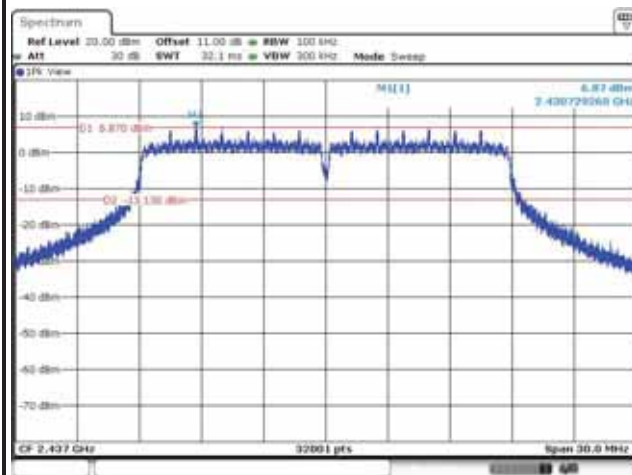




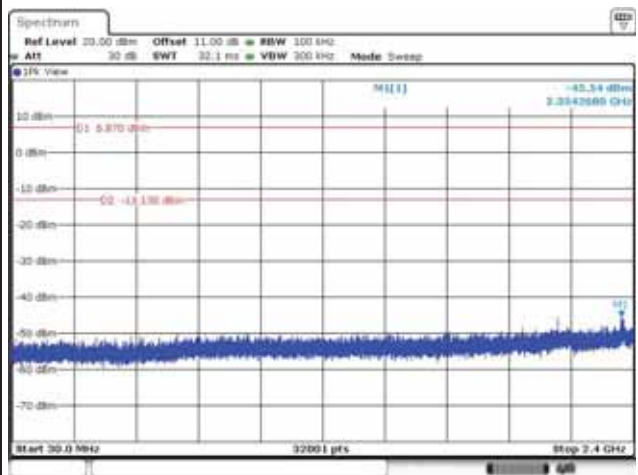
802.11n HT20

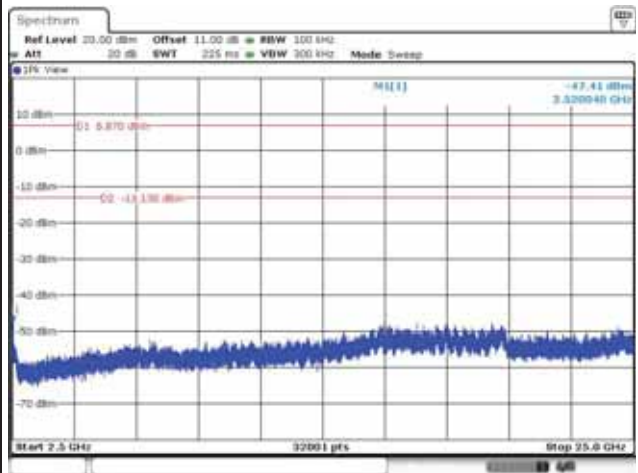


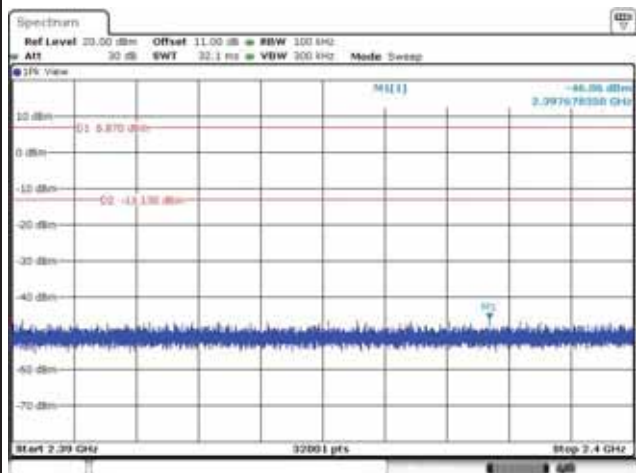
Reference Level



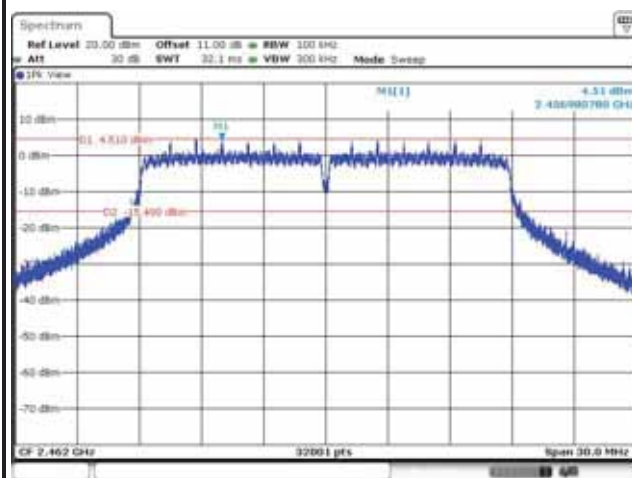
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



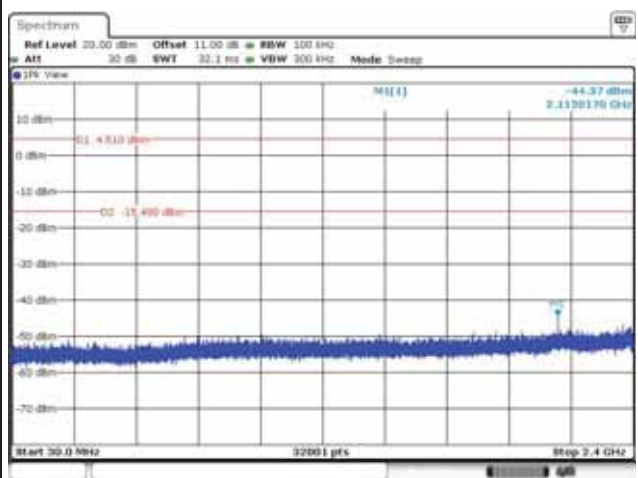


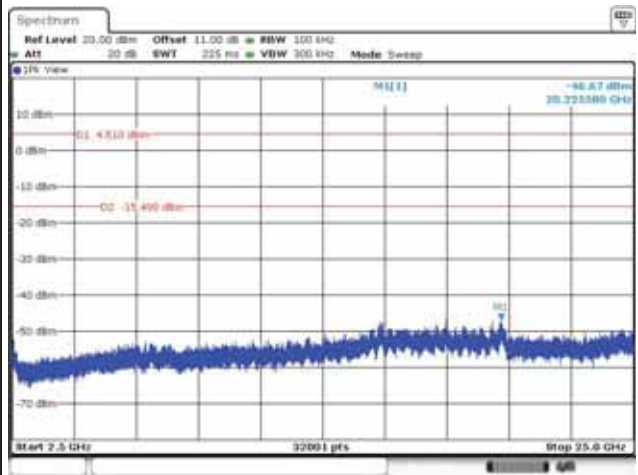


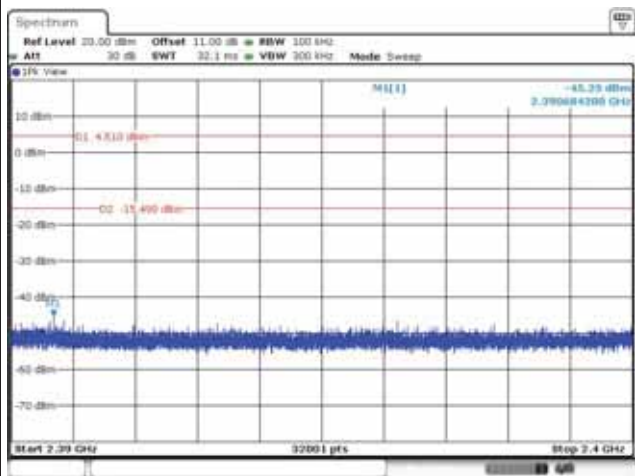
Reference Level



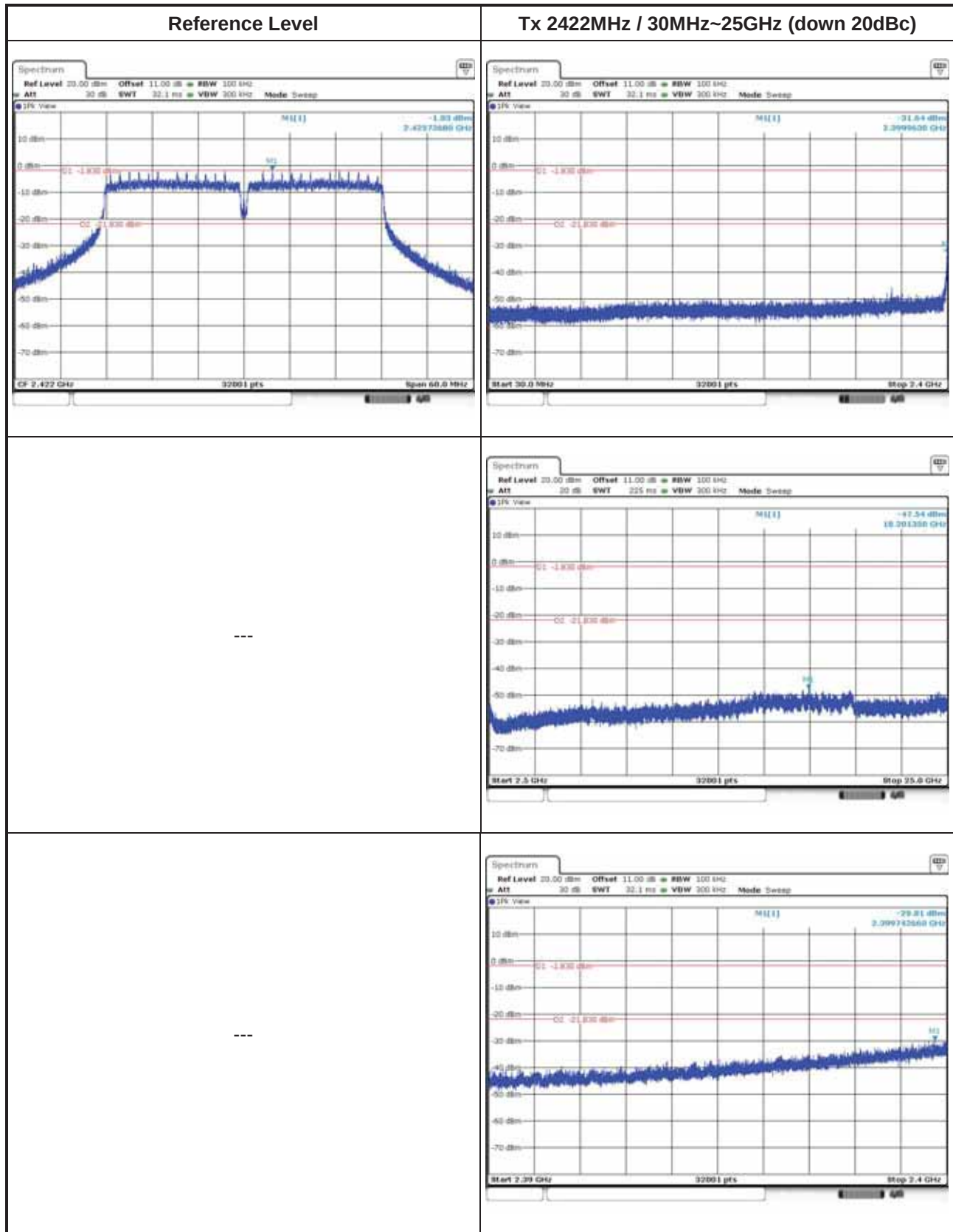
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



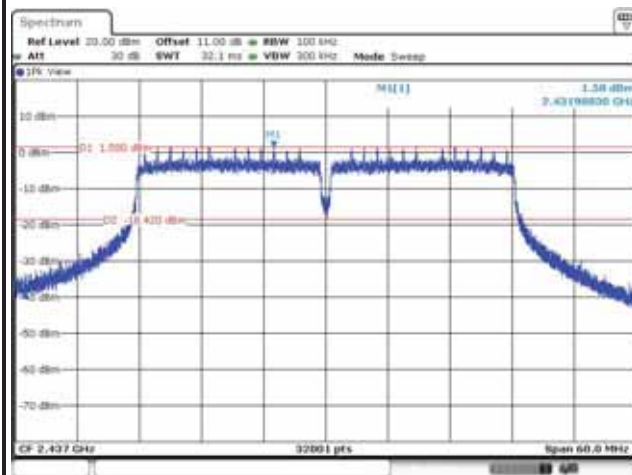




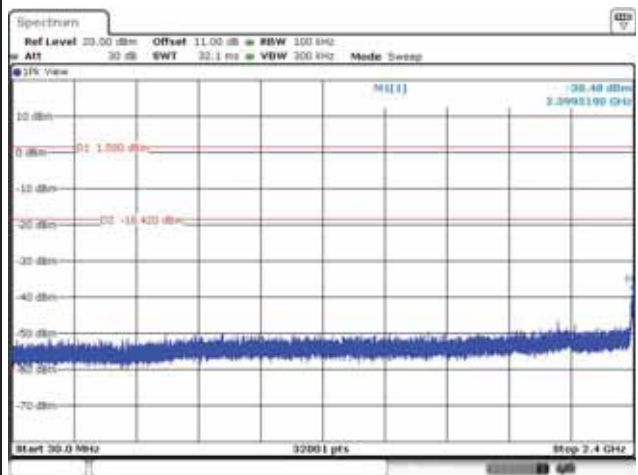
802.11n HT40

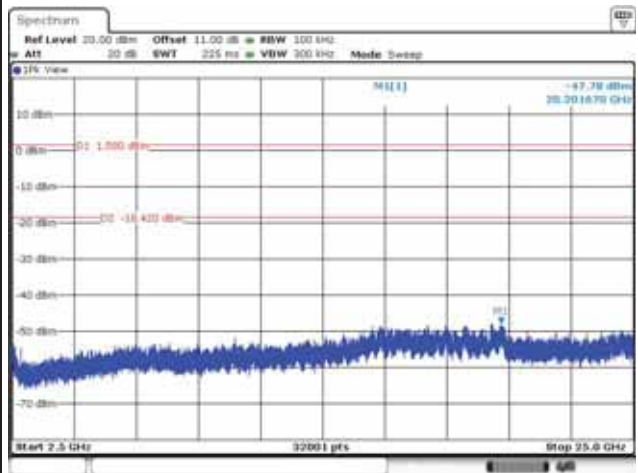


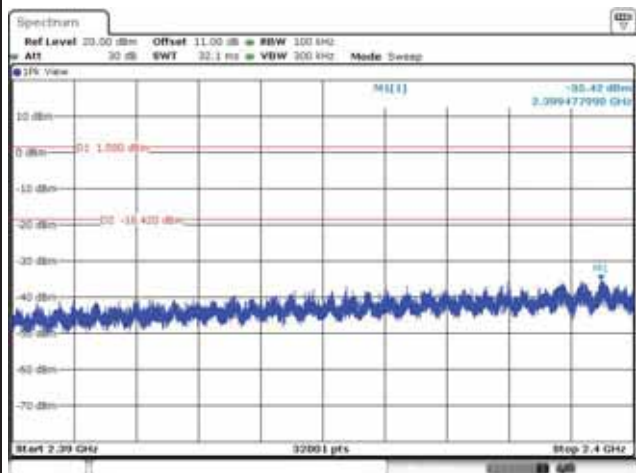
Reference Level



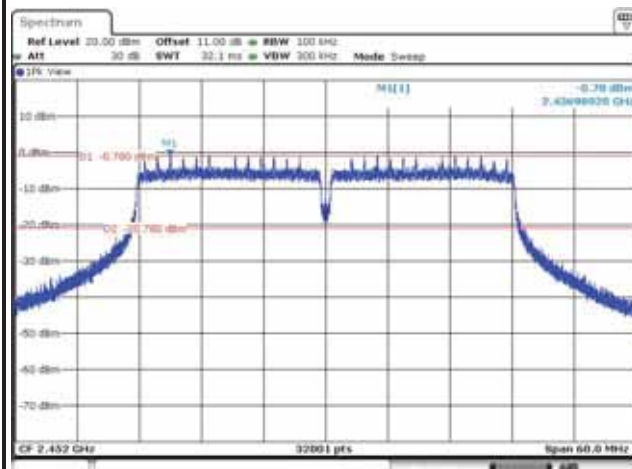
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



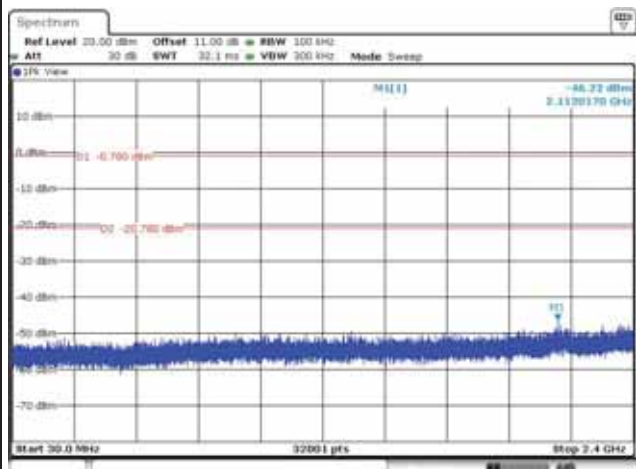


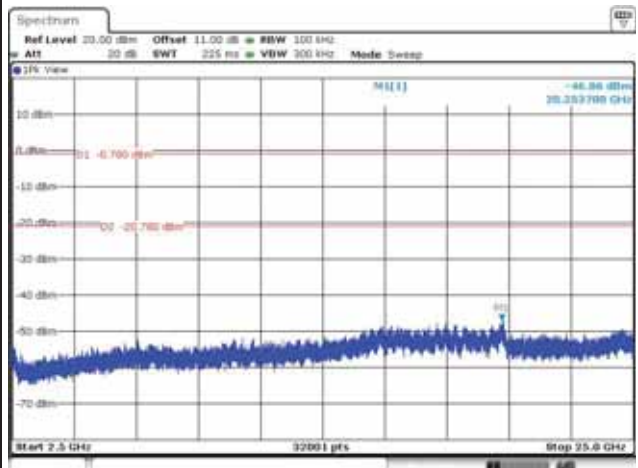


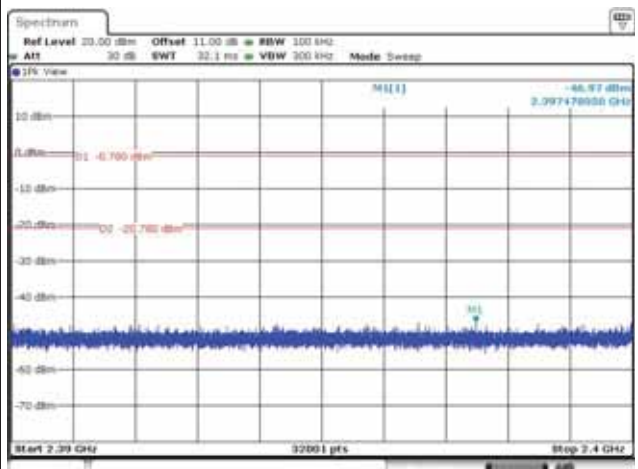
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)

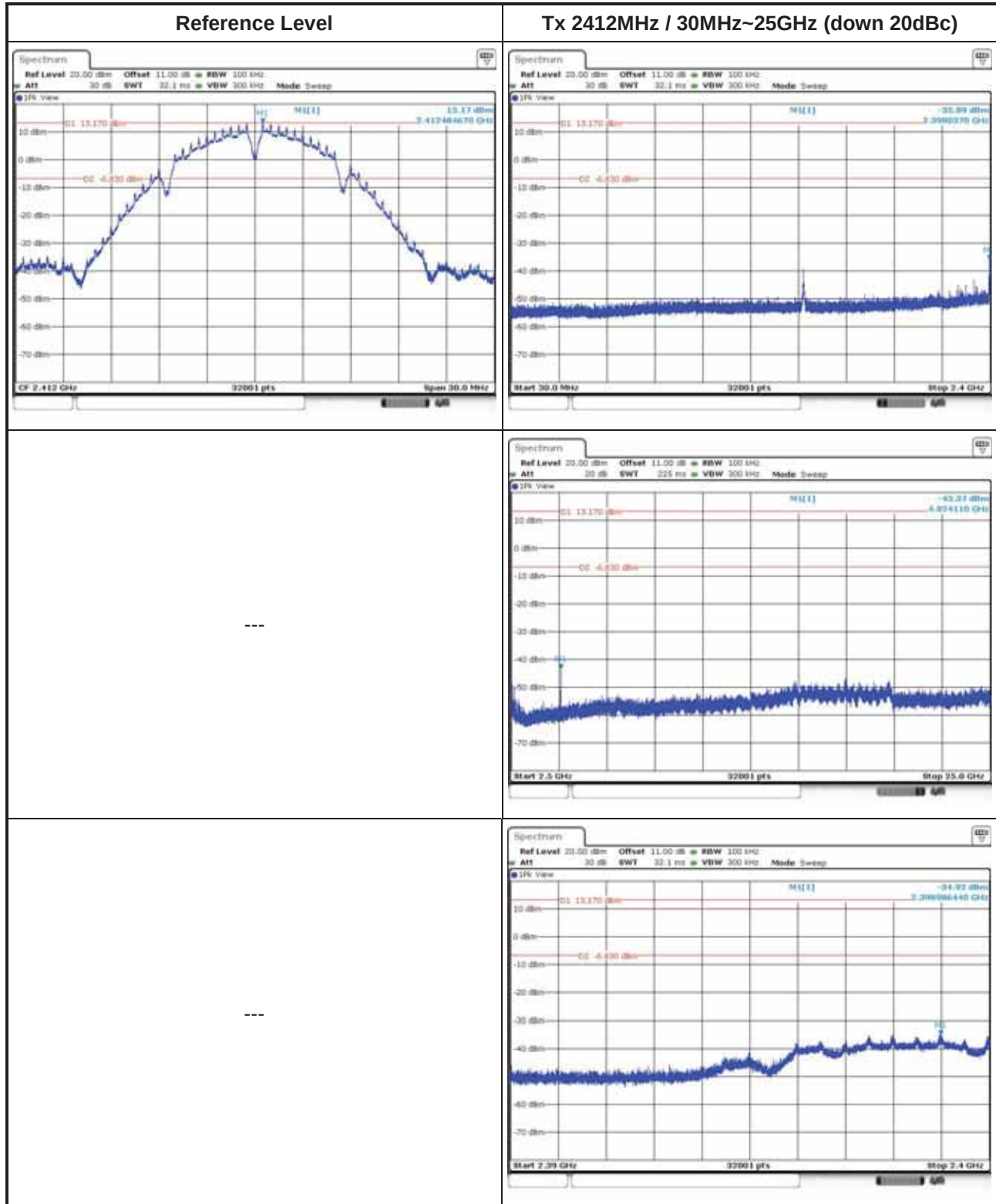




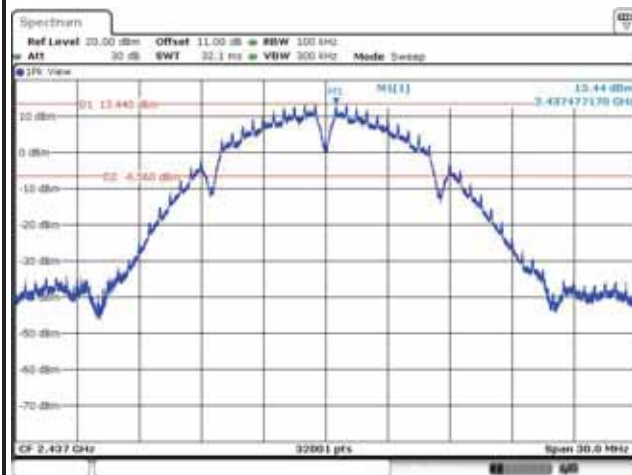


3.6.8 Unwanted Emissions into Non-Restricted Frequency Bands (Configuration 3: External Directional Panel antenna (model WS-AI-DQ04360))

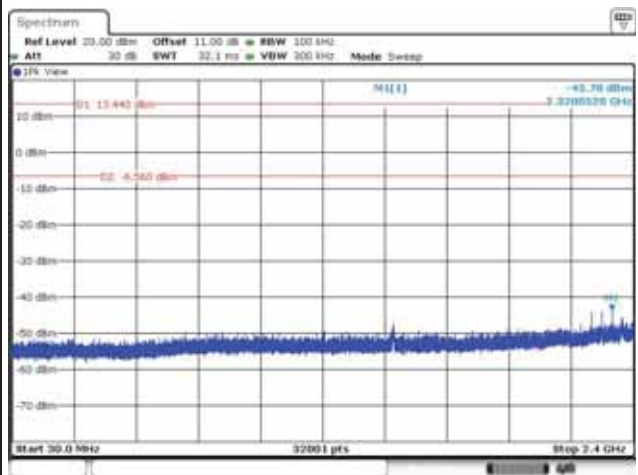
802.11b

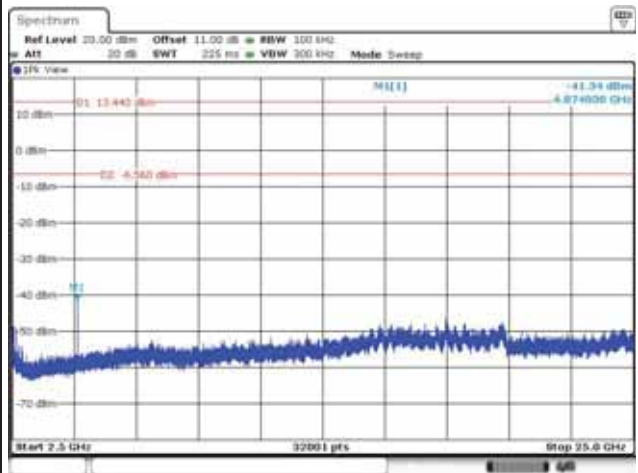


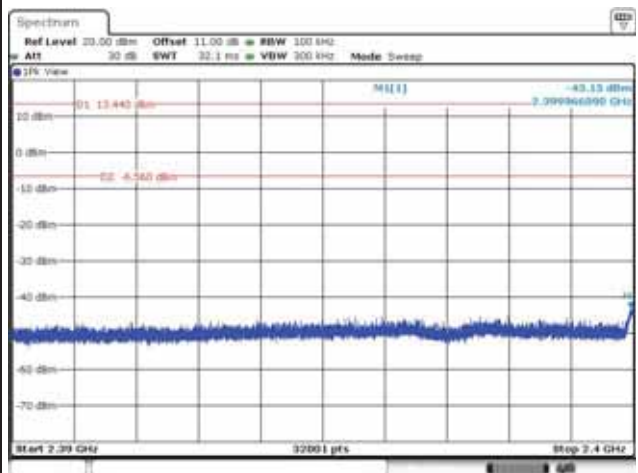
Reference Level



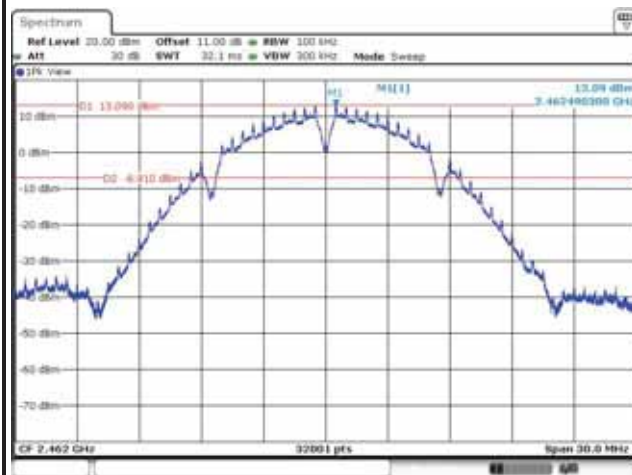
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



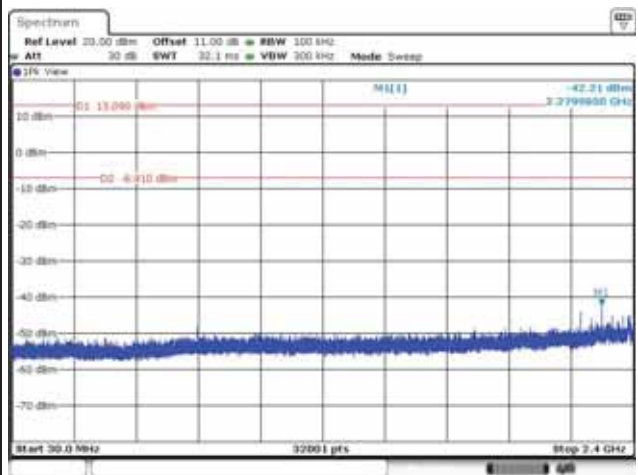


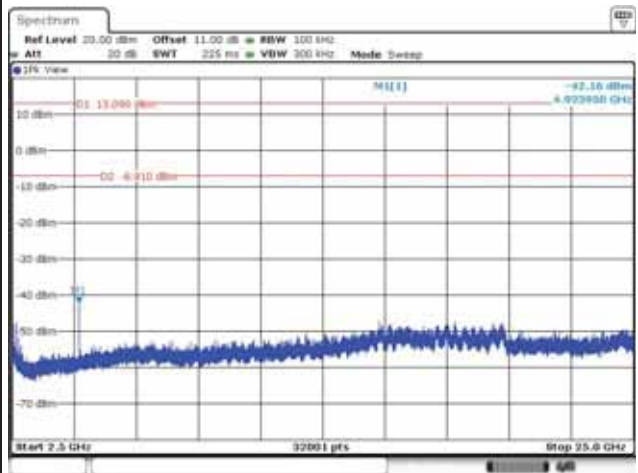


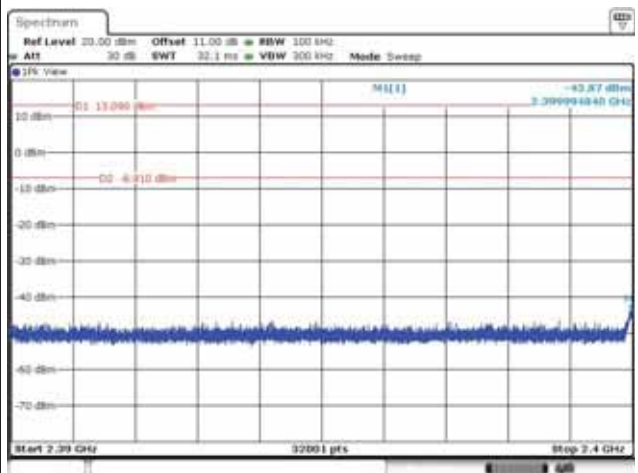
Reference Level



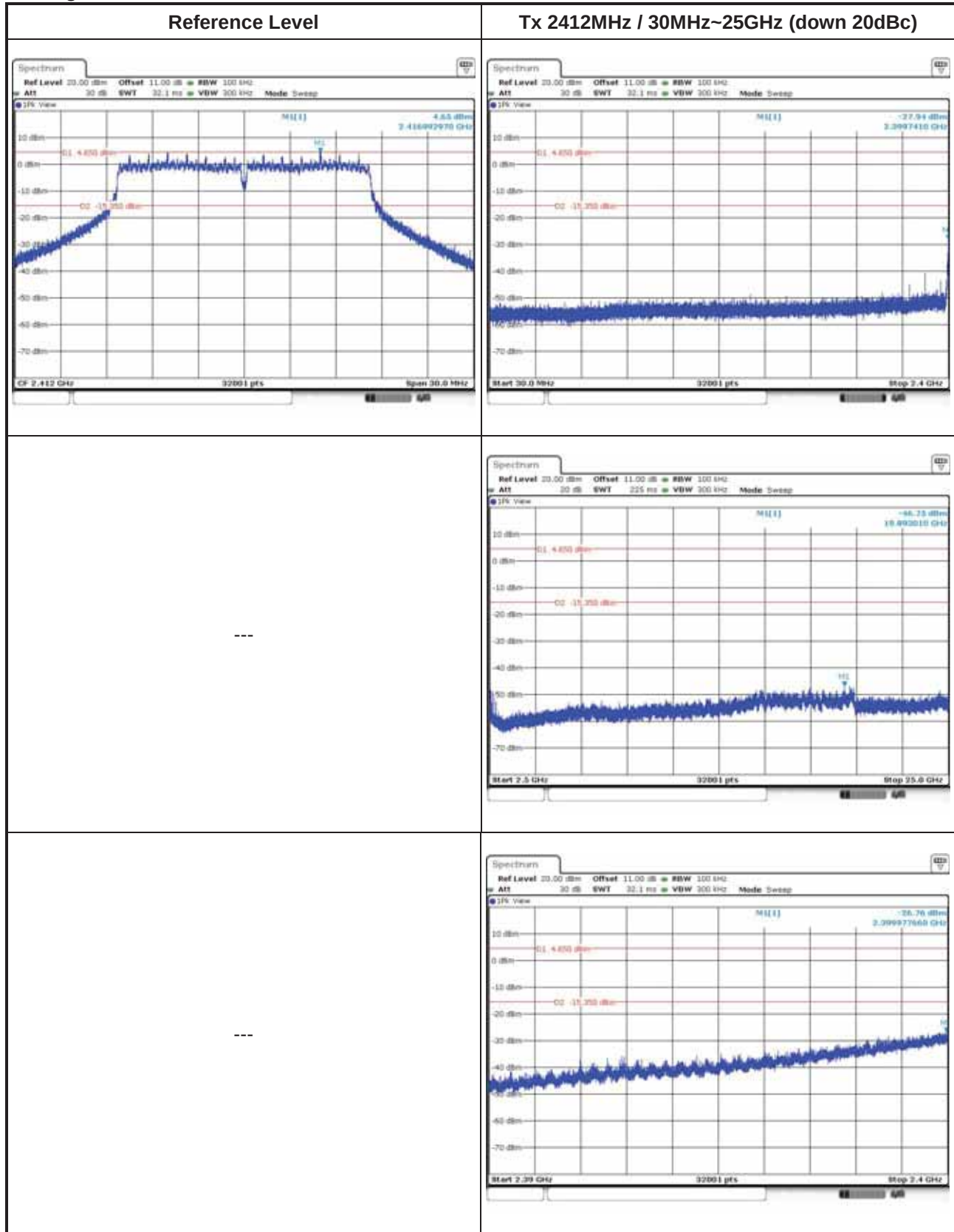
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



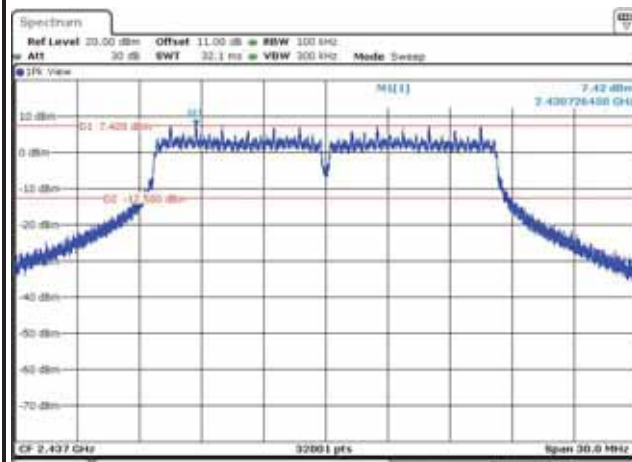




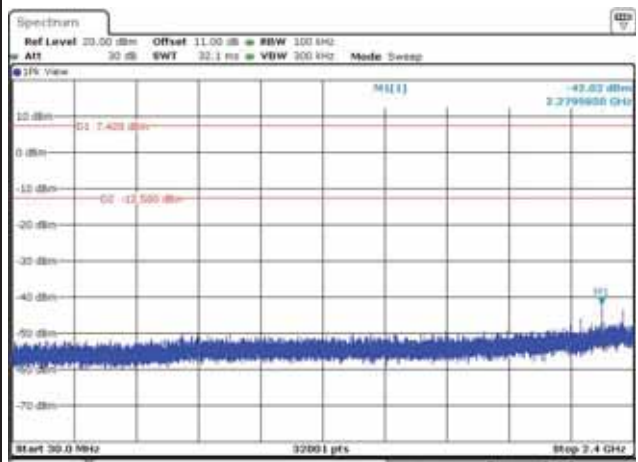
802.11g

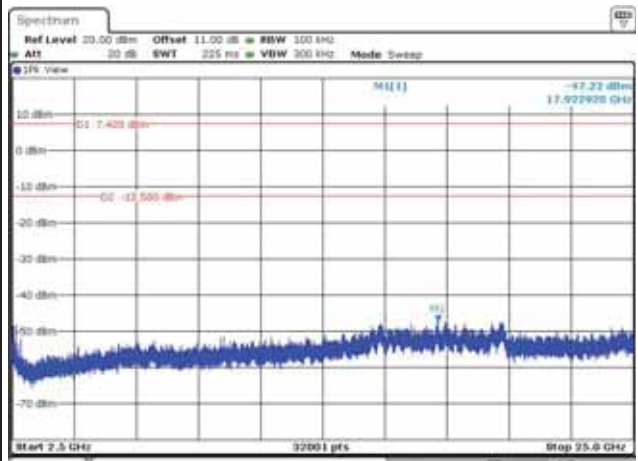


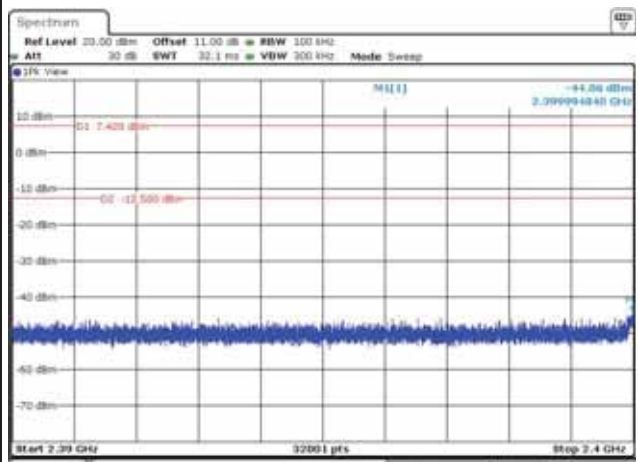
Reference Level



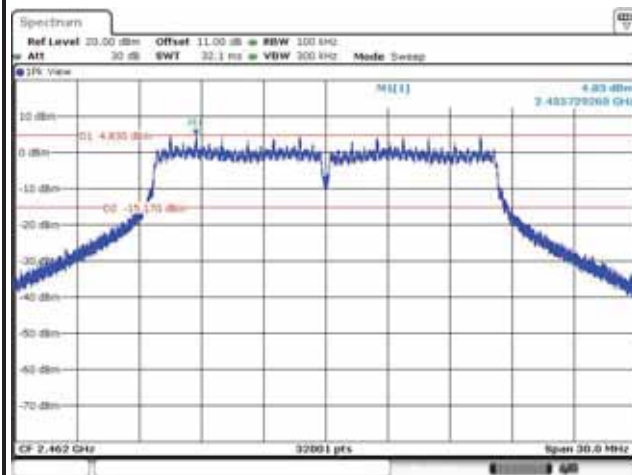
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



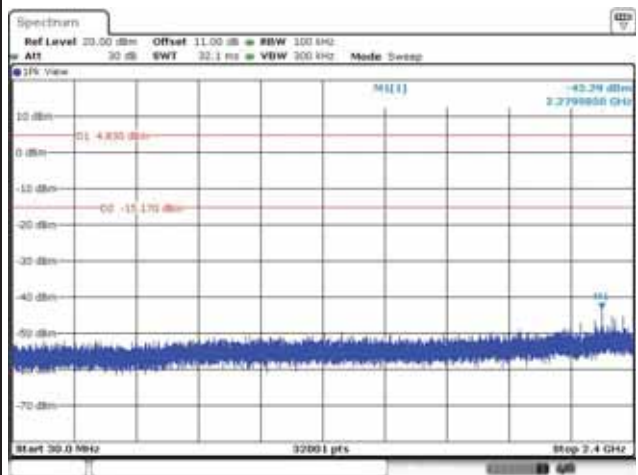


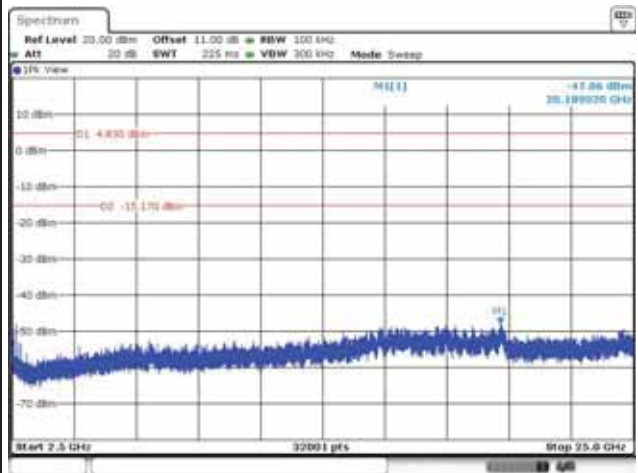


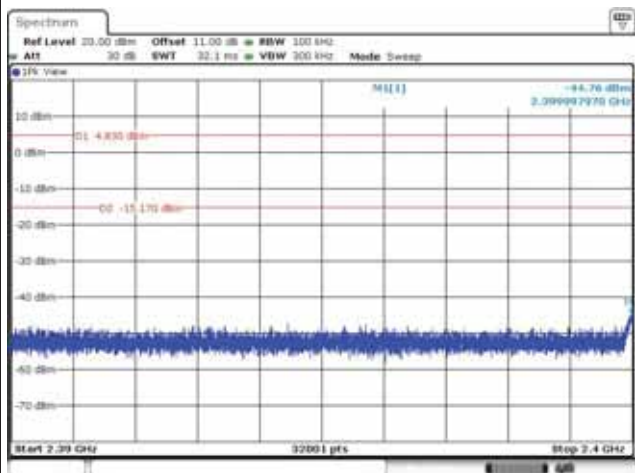
Reference Level



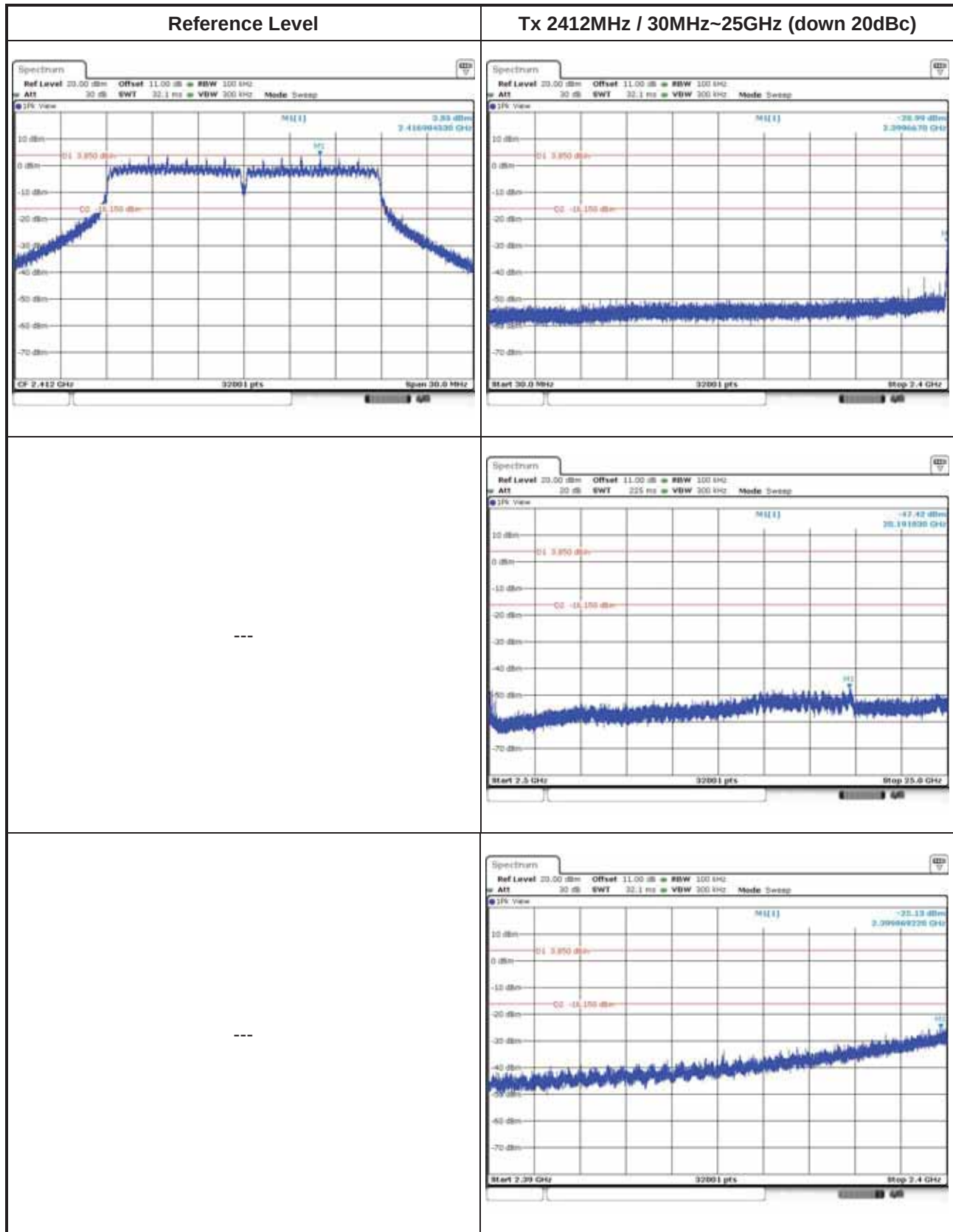
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



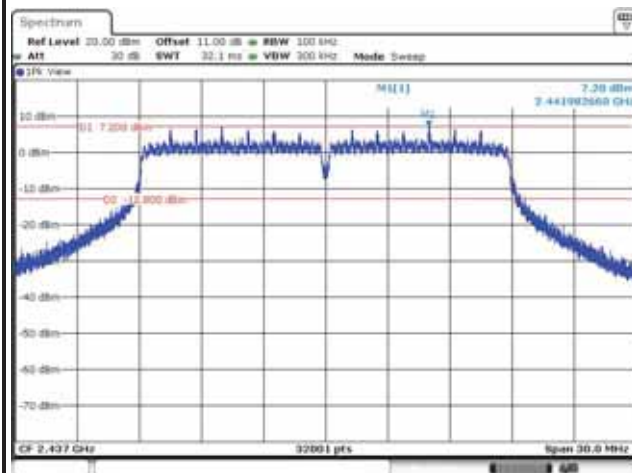




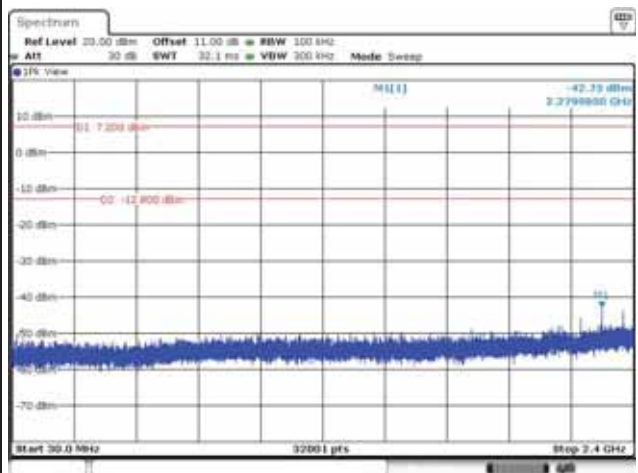
802.11n HT20

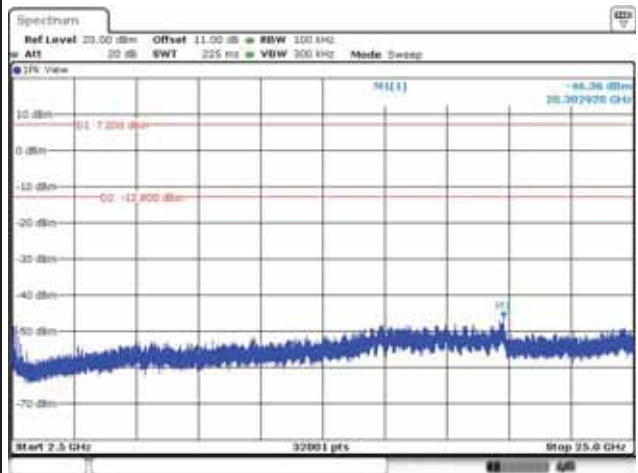


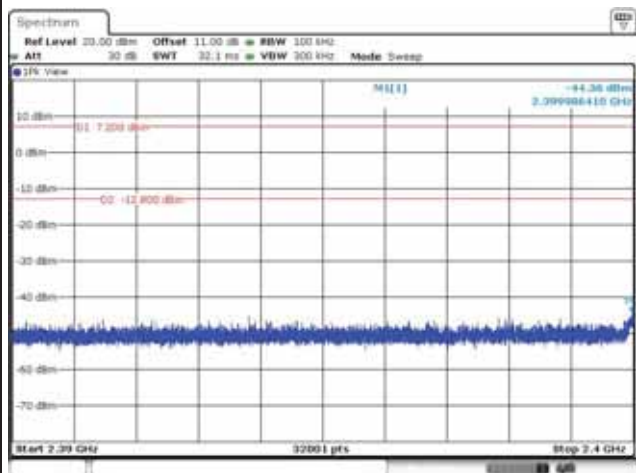
Reference Level



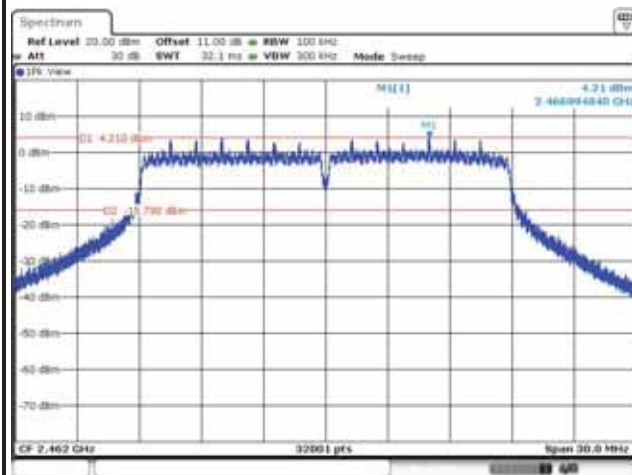
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



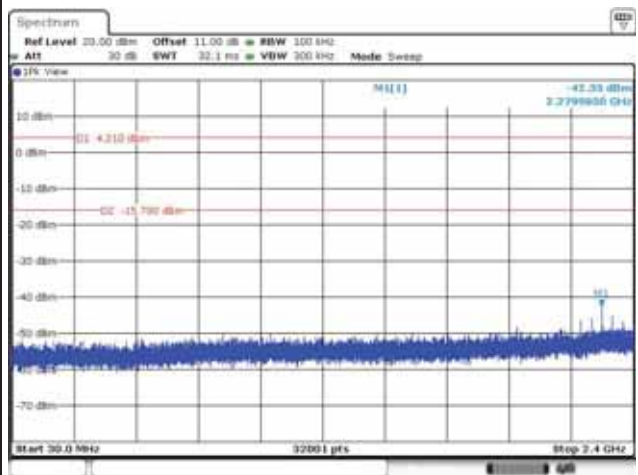


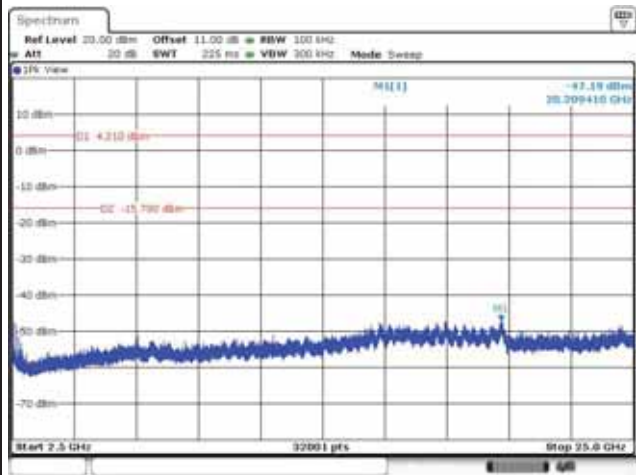


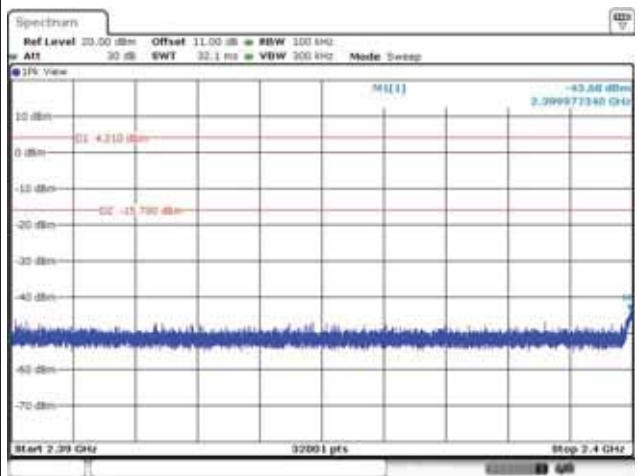
Reference Level



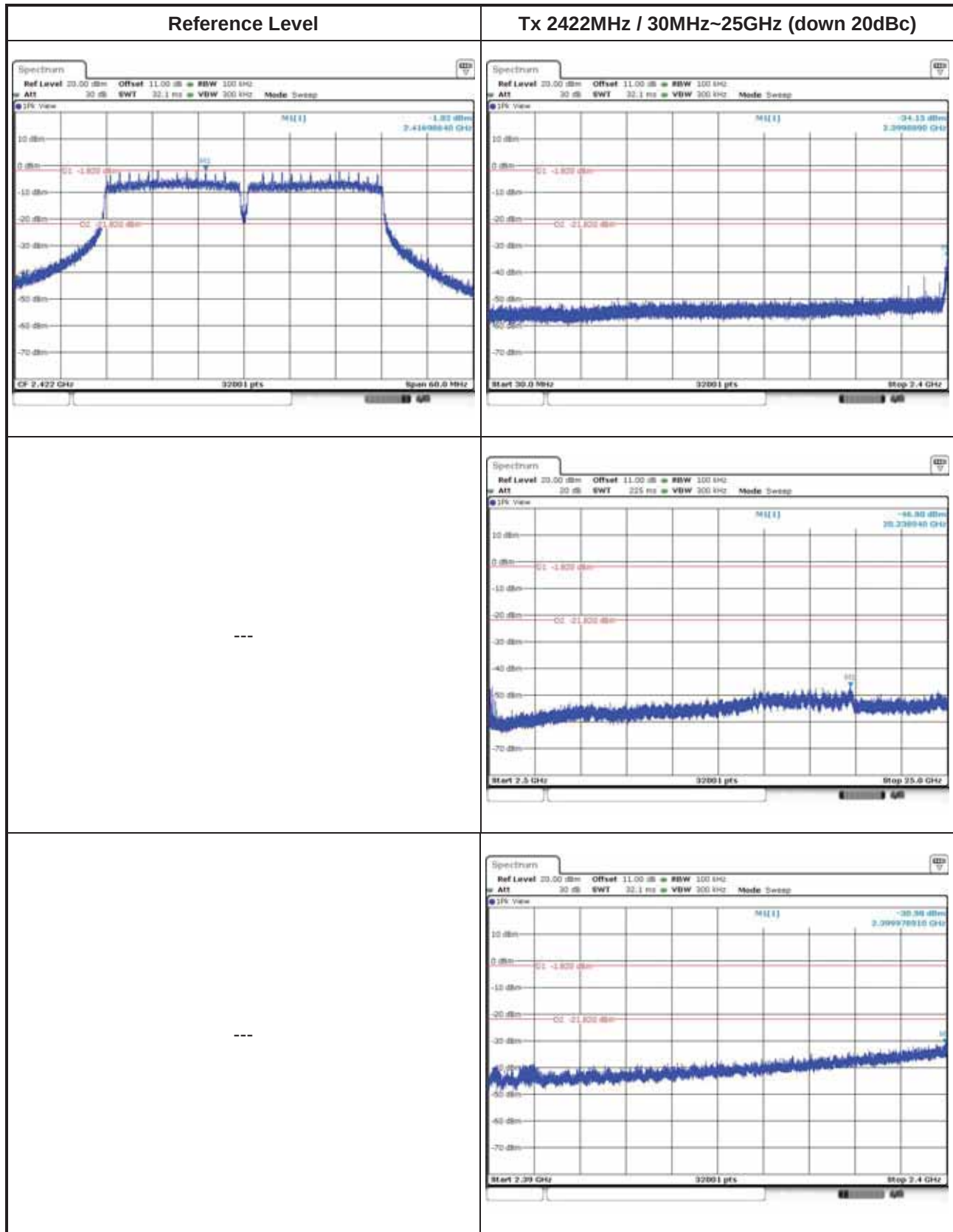
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



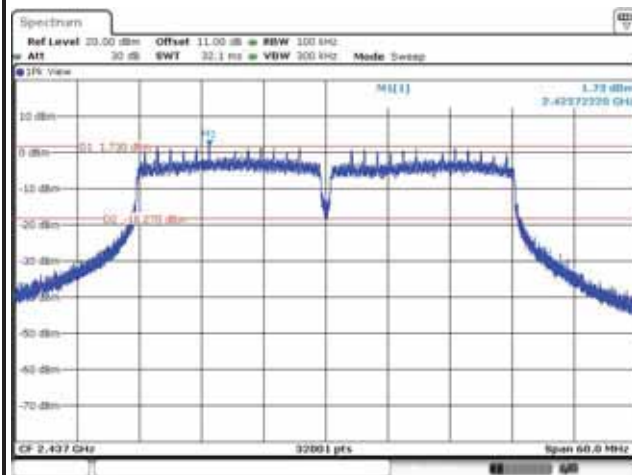




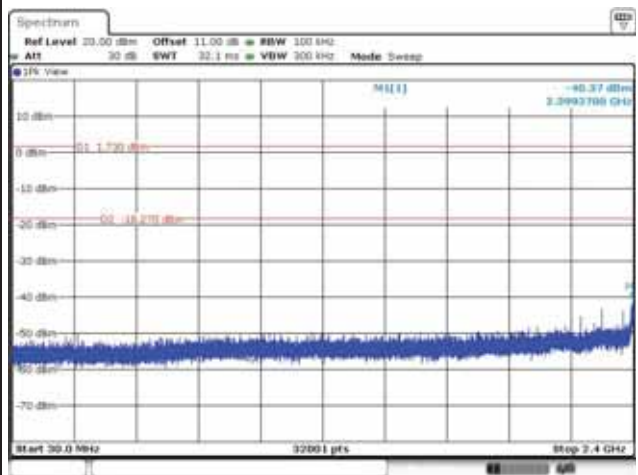
802.11n HT40

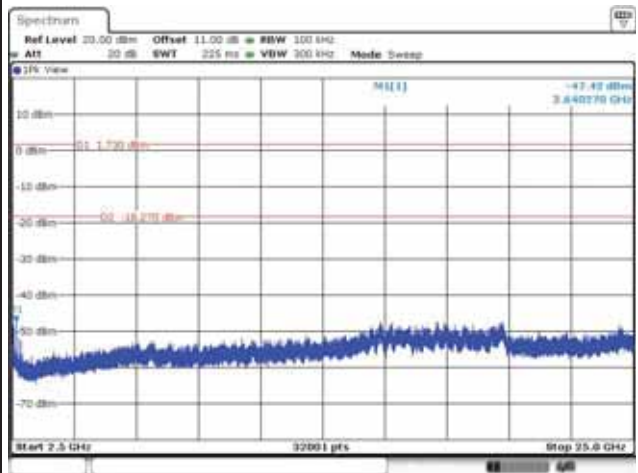


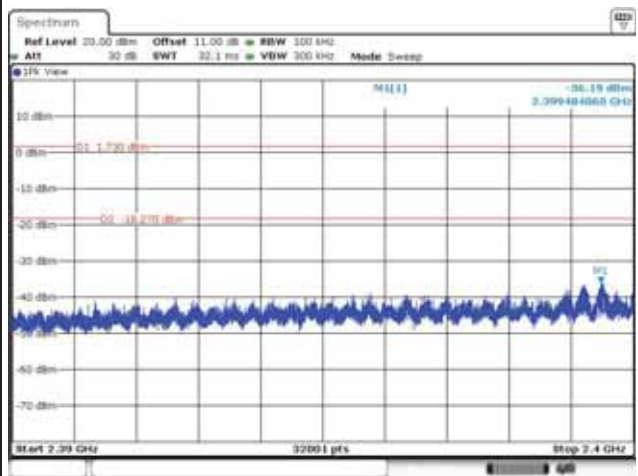
Reference Level



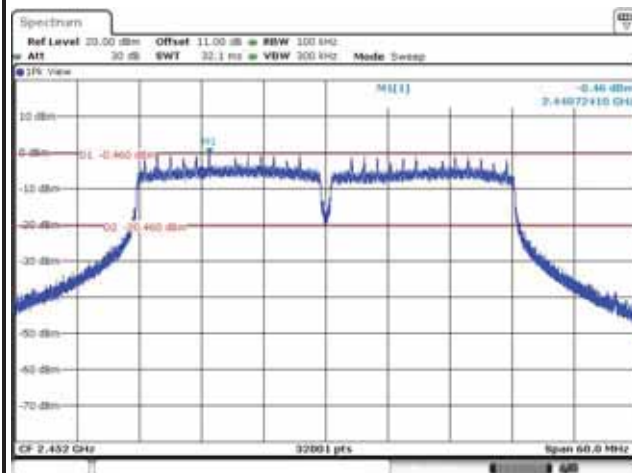
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



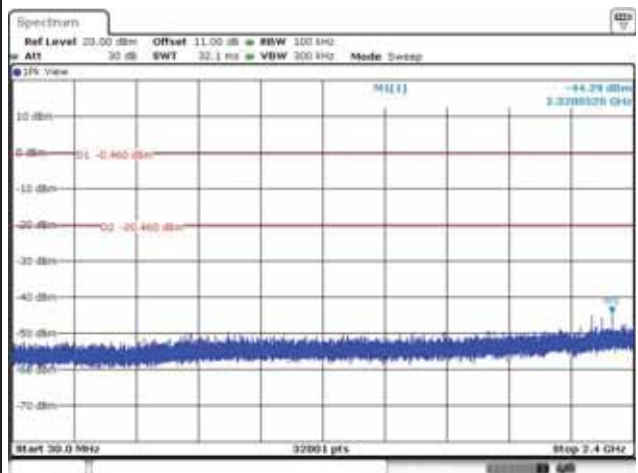


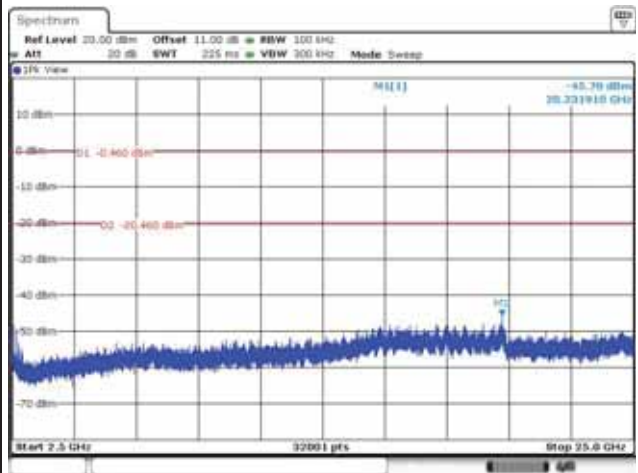


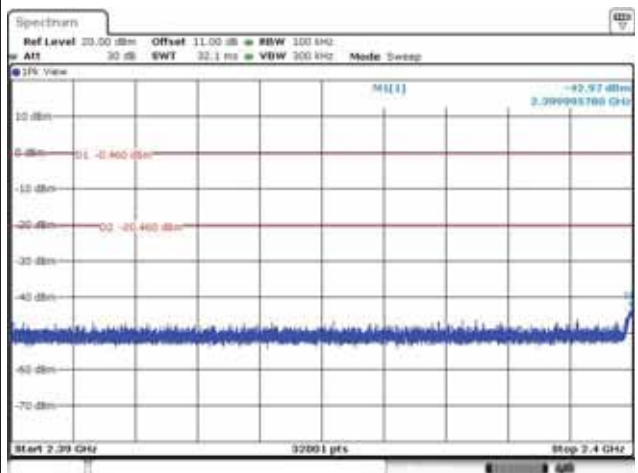
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)

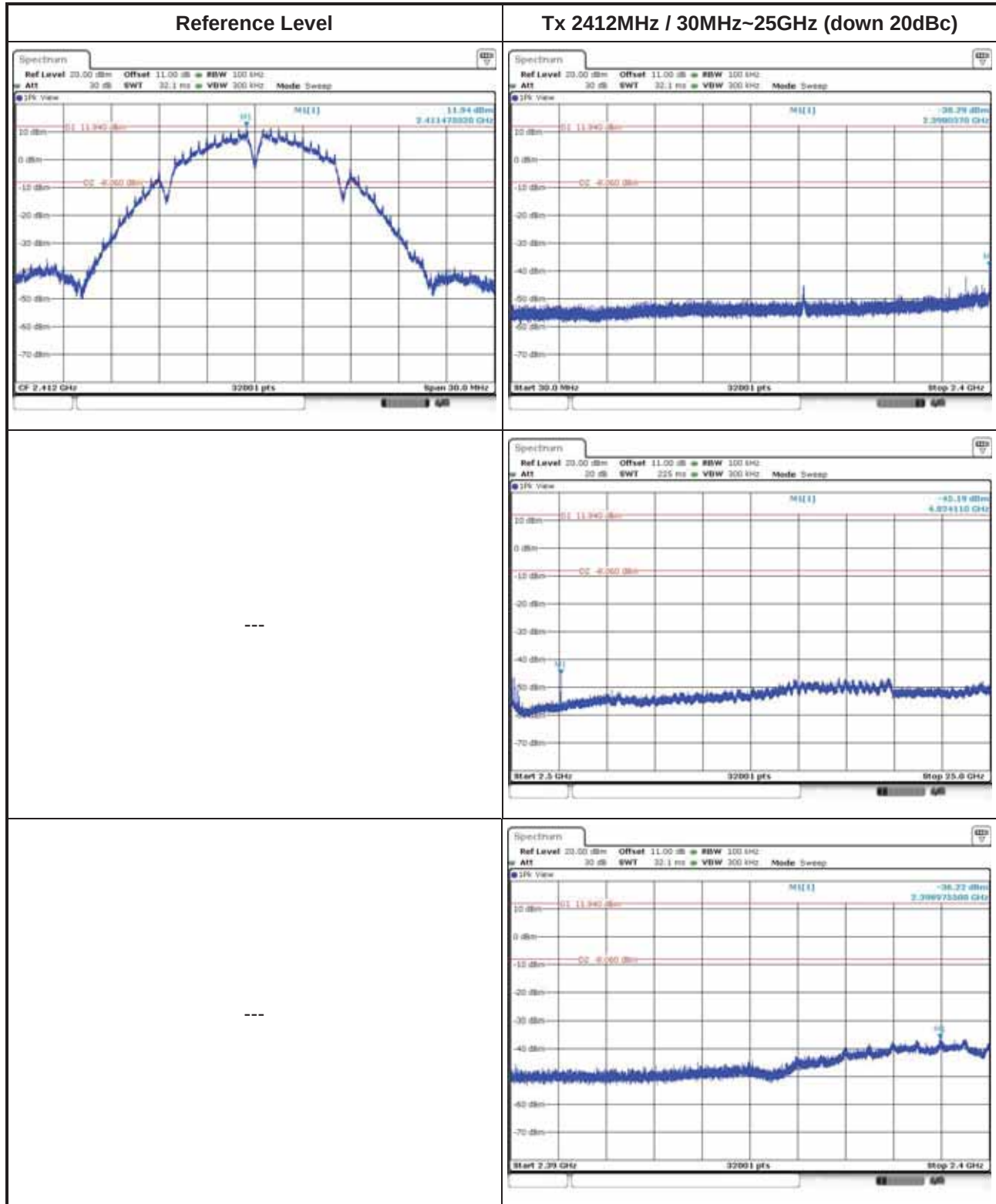




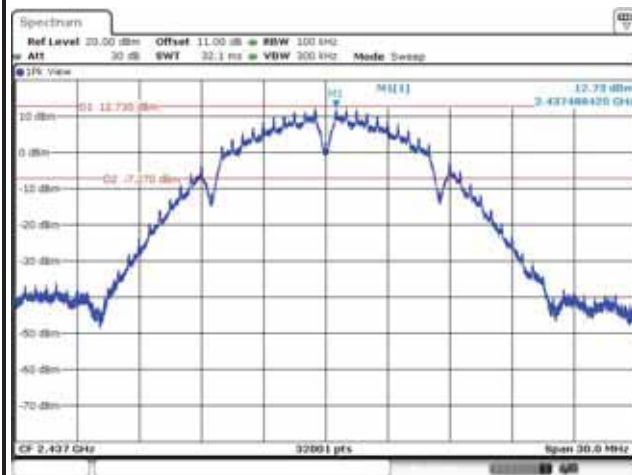


3.6.9 Unwanted Emissions into Non-Restricted Frequency Bands (Configuration 4: External Directional Panel antenna (model WS-AI-DD05120))

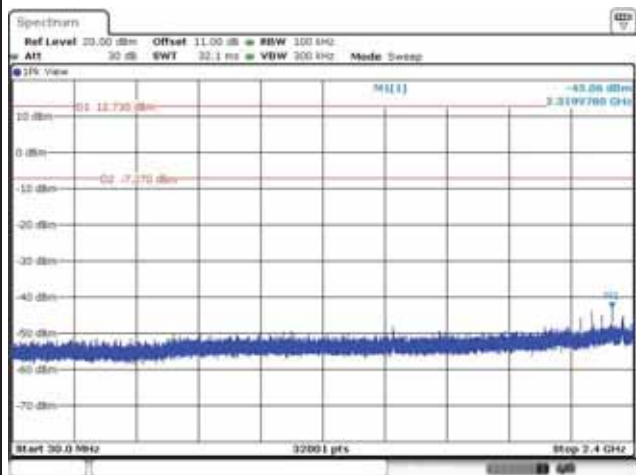
802.11b

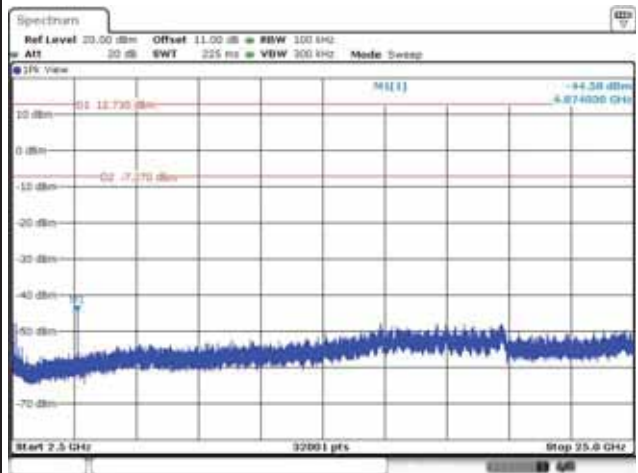


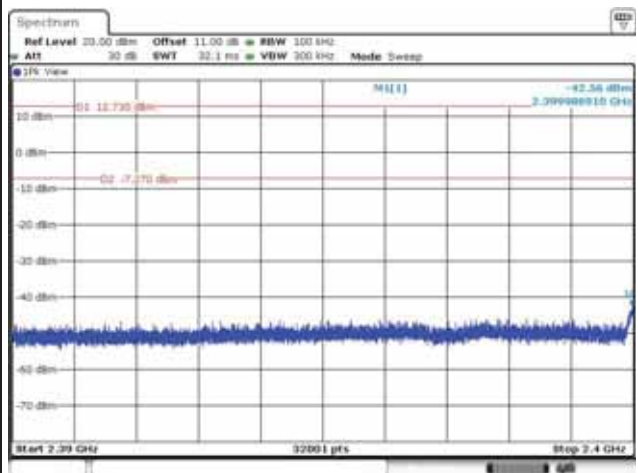
Reference Level



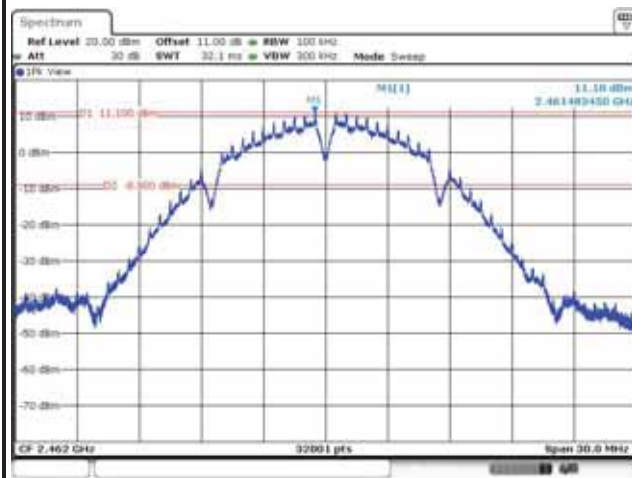
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



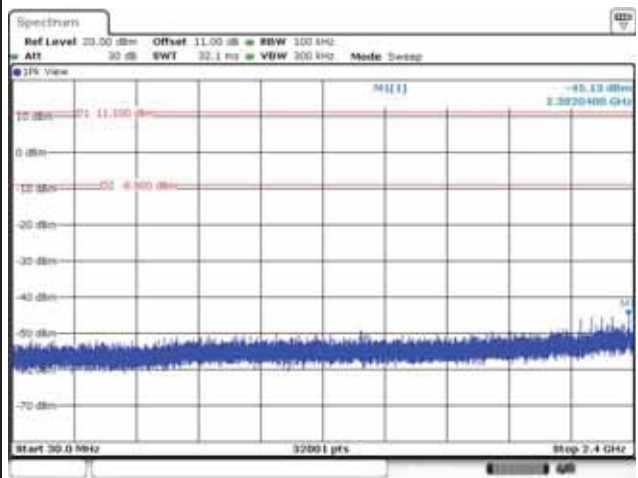


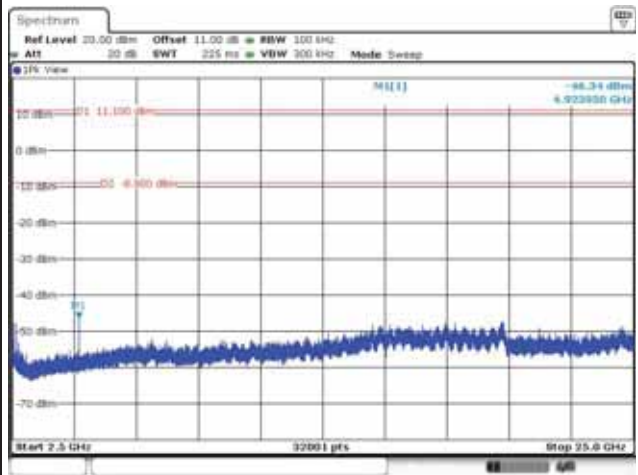


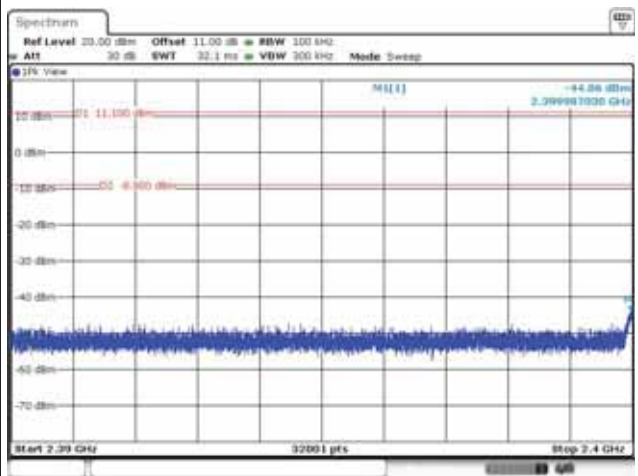
Reference Level



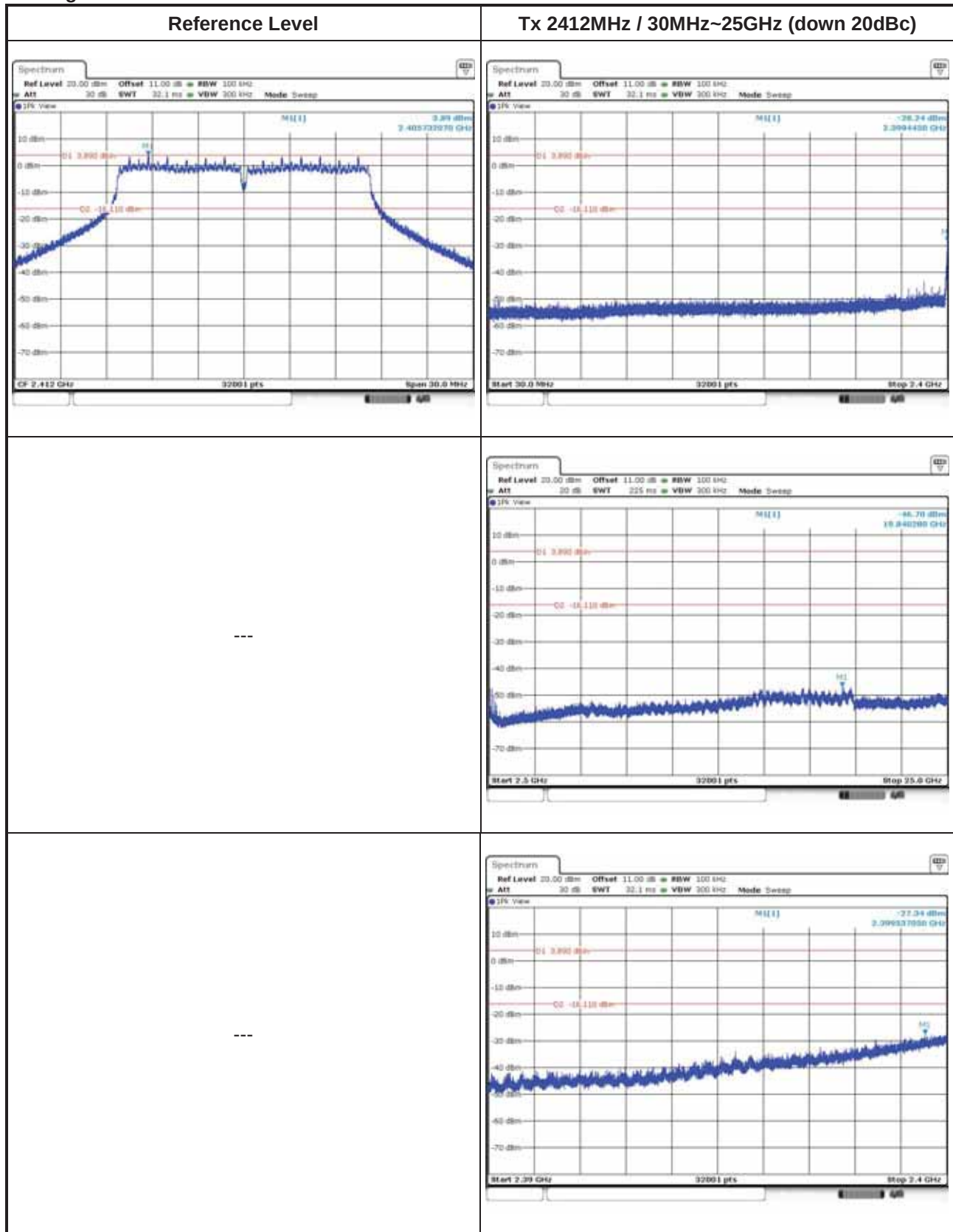
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



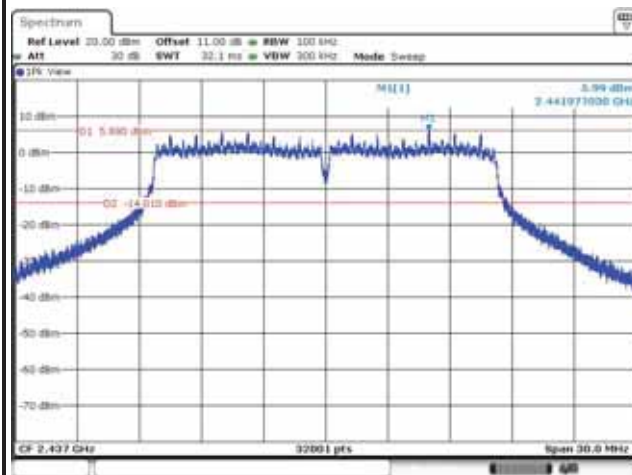




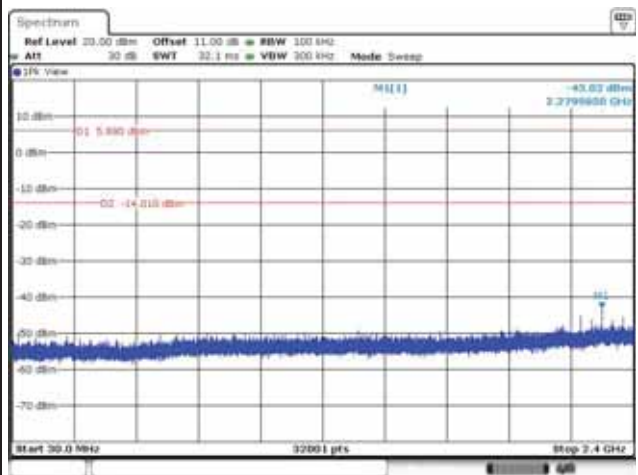
802.11g

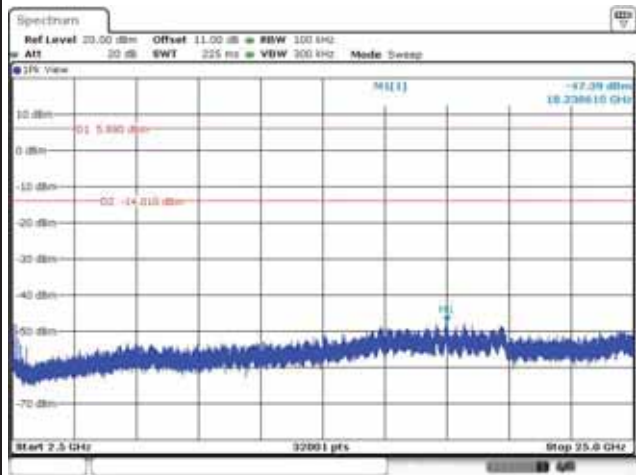


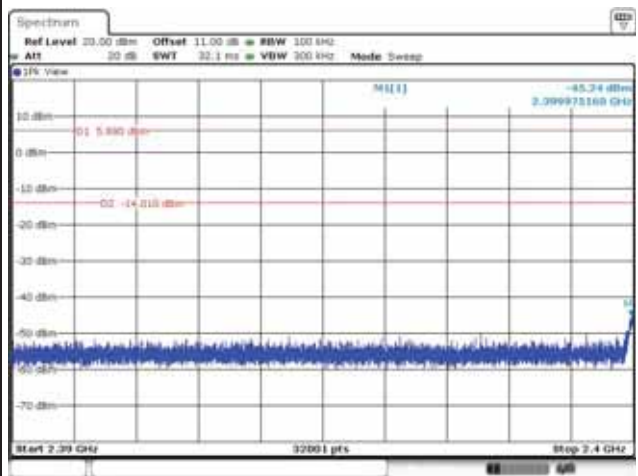
Reference Level



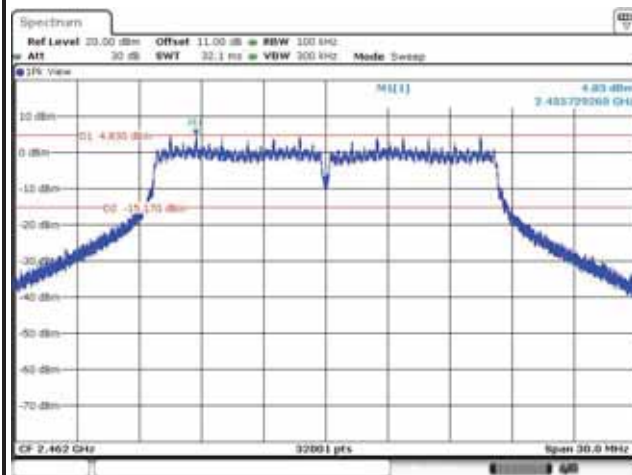
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



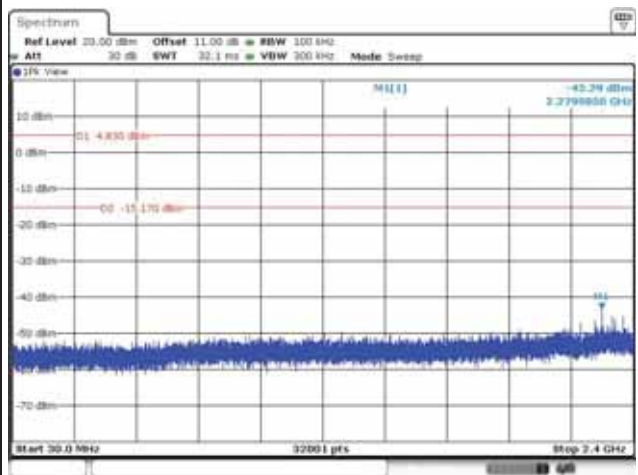


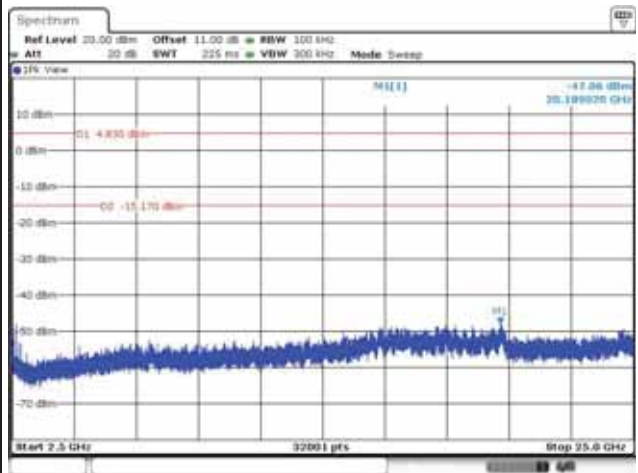


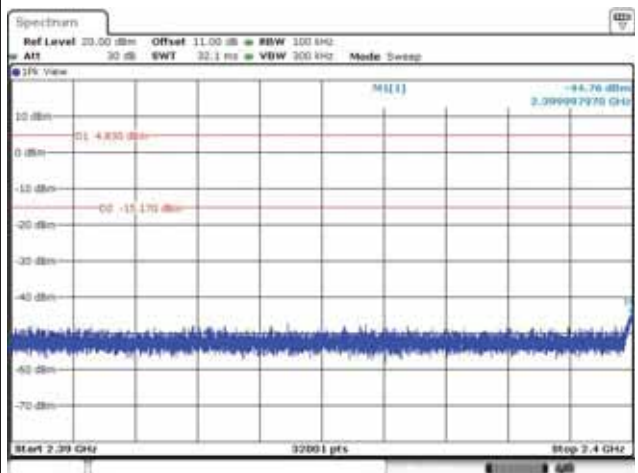
Reference Level



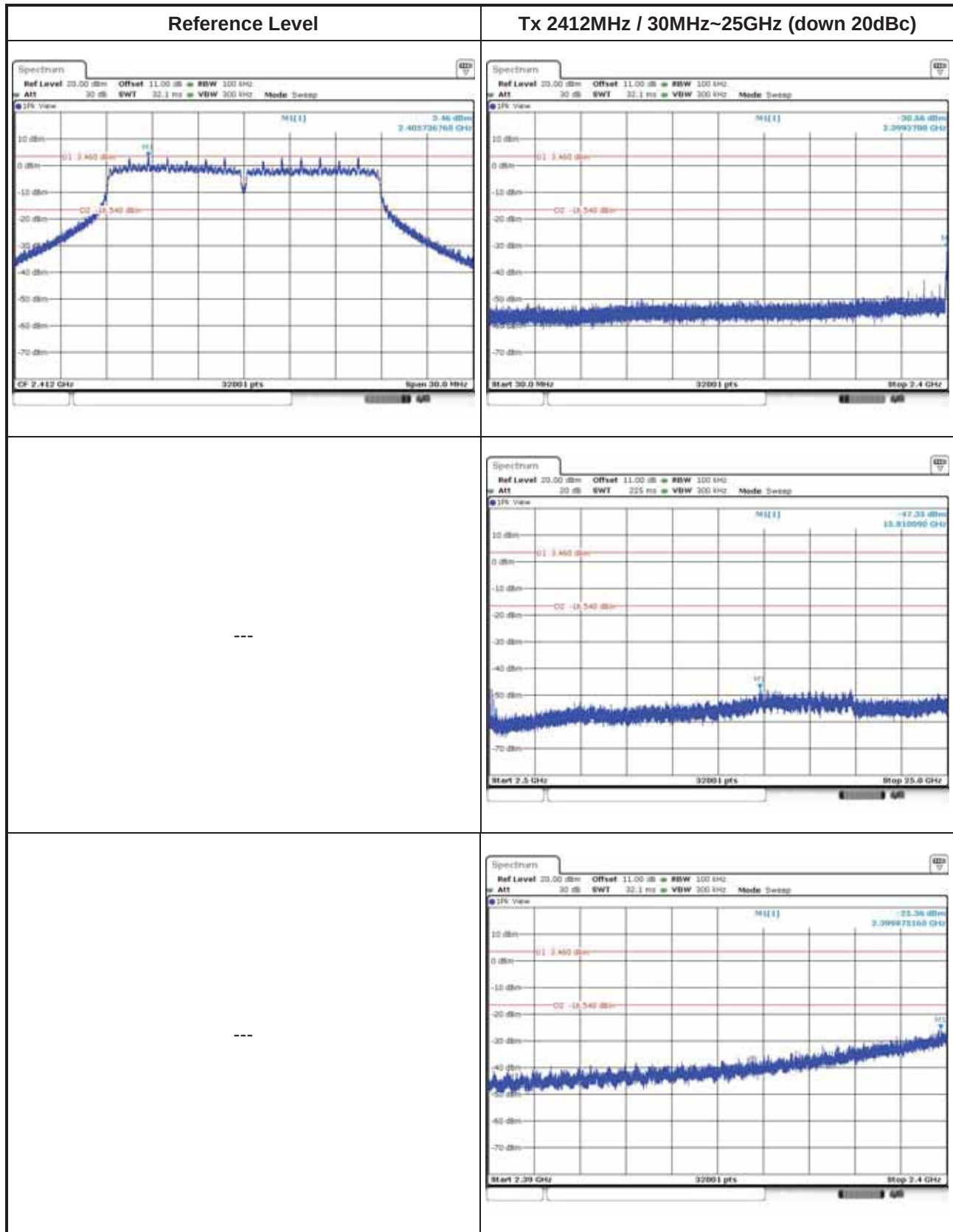
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



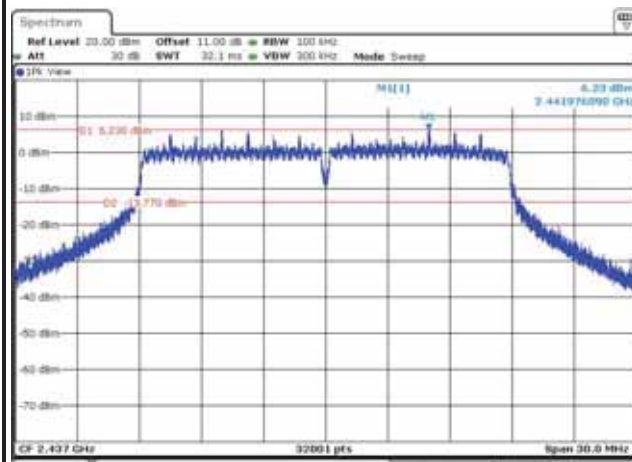




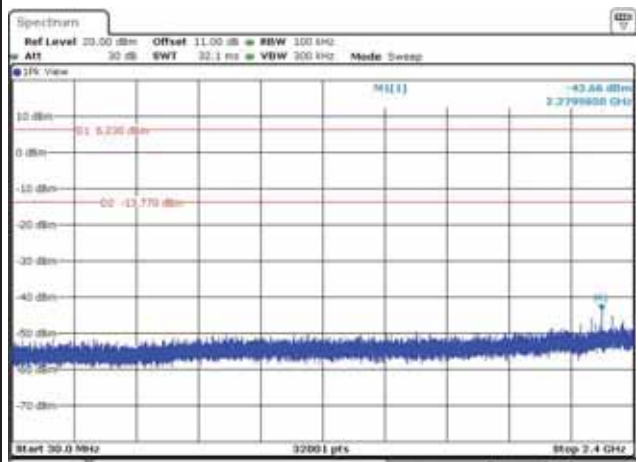
802.11n HT20

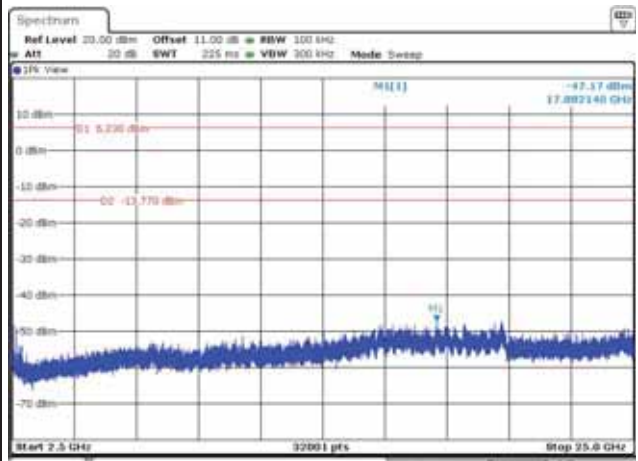


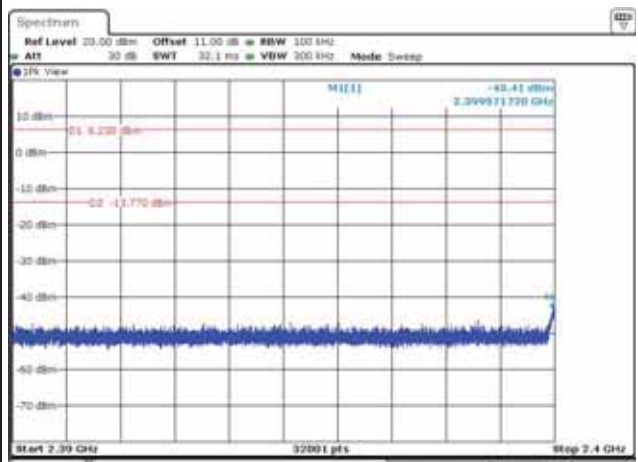
Reference Level



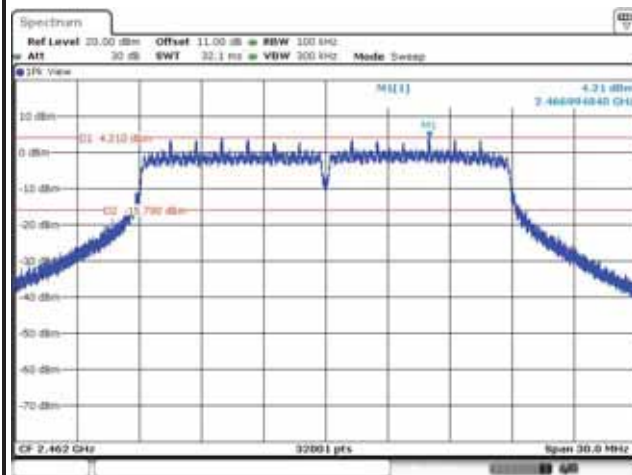
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



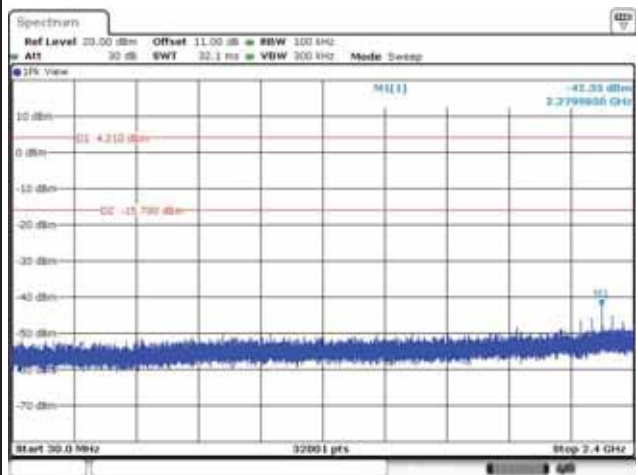


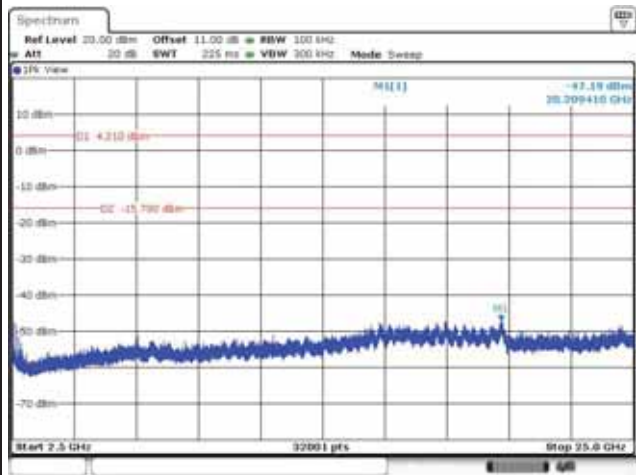


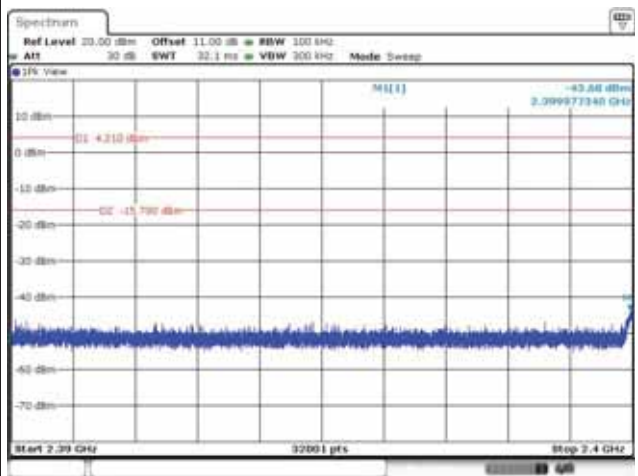
Reference Level



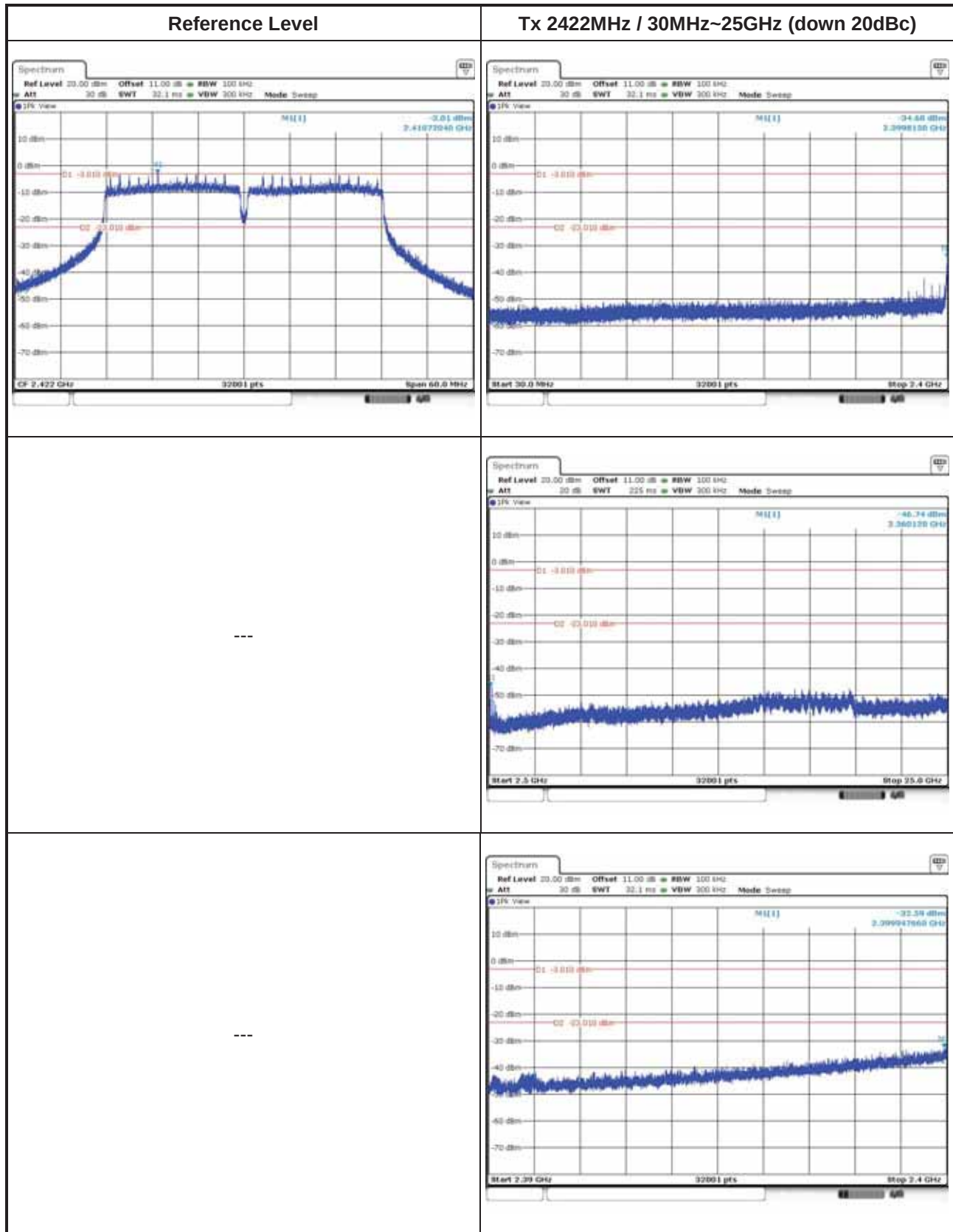
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



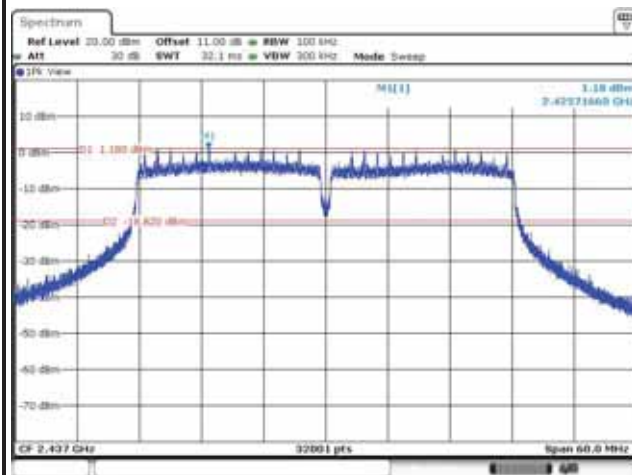




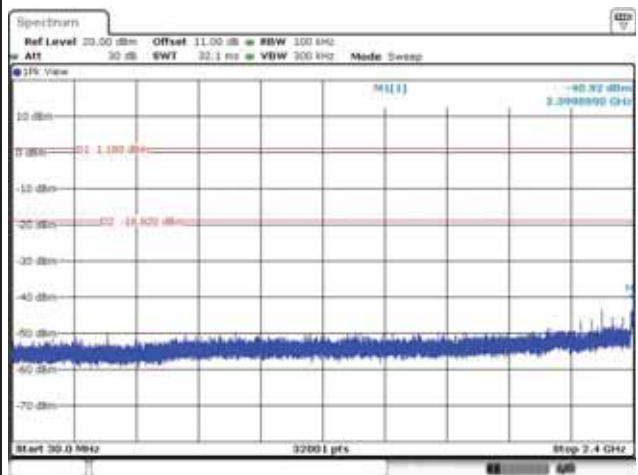
802.11n HT40

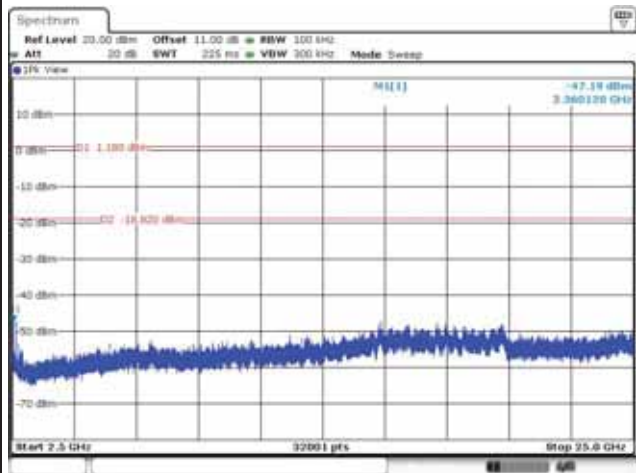


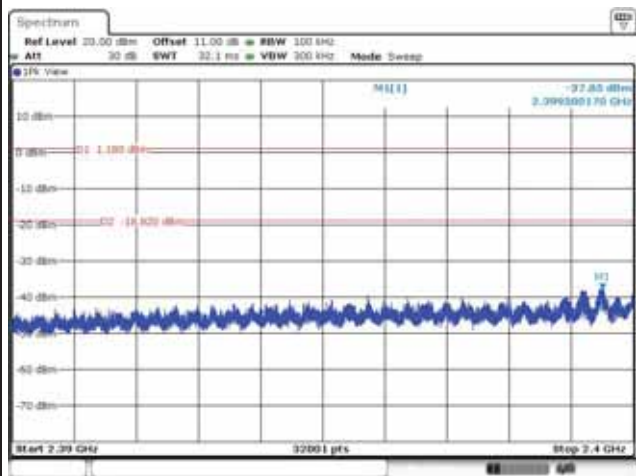
Reference Level



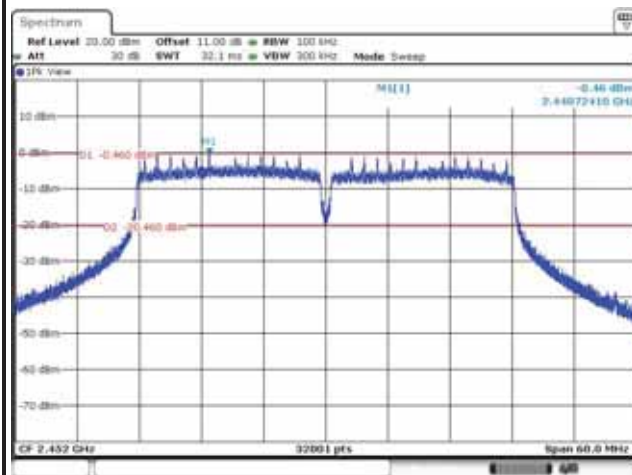
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



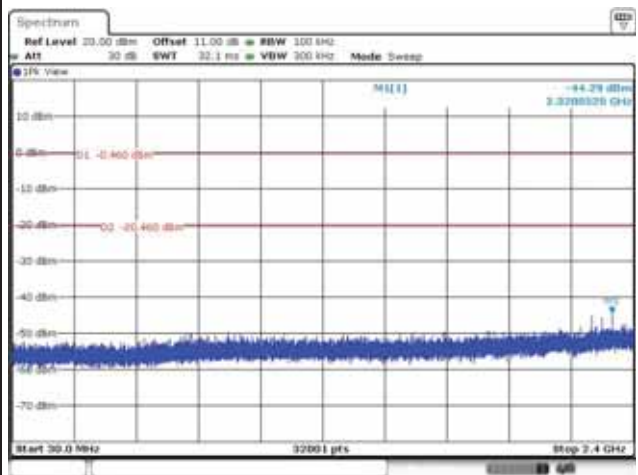


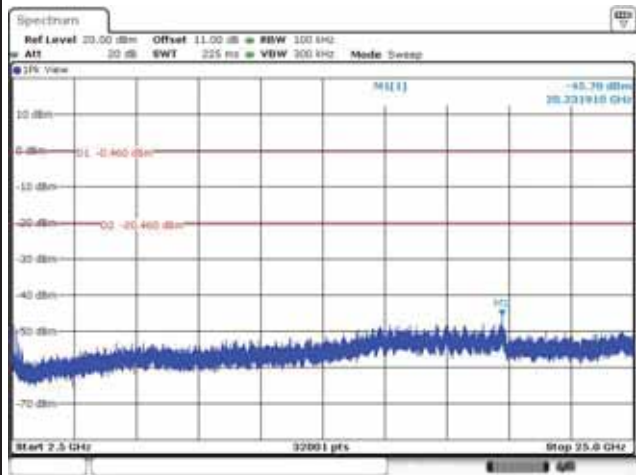


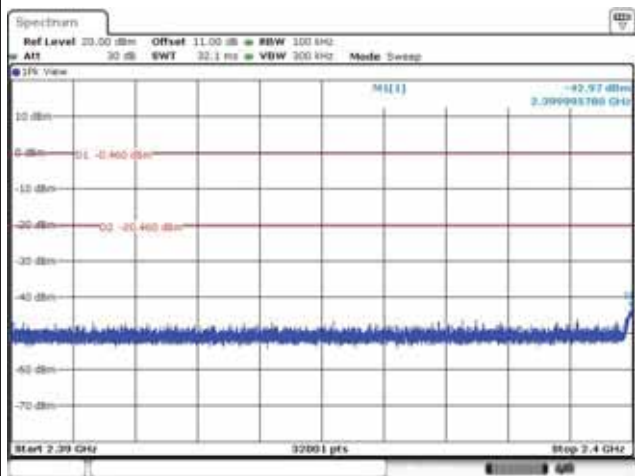
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)







4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan,
R.O.C.

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==