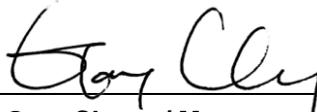


# FCC Test Report

**FCC ID** : PY314100253  
**Equipment** : AC750 Wireless Dual Band Gigabit Router  
**Model No.** : R6050, JR6150  
**Brand Name** : NETGEAR  
**Applicant** : NETGEAR, Inc.  
**Address** : 350 East Plumeria Drive, San Jose, California  
95134, USA  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Mar. 18, 2014  
**Tested Date** : May 06 ~ May 09, 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
FR371901AI-02	Rev. 01	Initial issue	May 23, 2014

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.154MHz 40.71 (Margin -15.07dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 11650.00MHz 53.89 (Margin -0.11dB) - AV	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11a: 22.89 HT20: 22.55 HT40: 24.85 VHT20: 22.64 VHT40: 24.92 VHT80: 21.20	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name
NETGEAR	R6050	AC750 Wireless Dual Band Gigabit Router
	JR6150	
<p>✦ All models are electrically identical, different model names are for marketing purpose.</p> <p>✦ The above models, model <b>JR6150</b> was selected as a representative one for the final test and only its data was recorded in this report.</p>		

### 1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
IEEE Std. 802.11	Frequency Range (MHz)	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS
a	5725-5850	5745-5825	149-165 [5]	1	6-54 Mbps
n (HT20)	5725-5850	5745-5825	149-165 [5]	1	MCS 0-7
n (HT40)	5725-5850	5755-5795	151-159 [2]	1	MCS 0-7
ac (VHT20)	5725-5850	5745-5825	149-165 [5]	1	MCS 0-8
ac (VHT40)	5725-5850	5755-5795	151-159 [2]	1	MCS 0-9
ac (VHT80)	5725-5850	5775	155 [1]	1	MCS 0-9
<p>Note 1: RF output power specifies that Maximum Conducted Output Power.</p> <p>Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.</p>					

### 1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Gain (dBi)	Remarks
1	98613UIPF000	8613 Flying Lead Ant.	UFL	5.22	---

### 1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
-------------------	--------------------

### 1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	Adapter 1	Brand Name: NETGEAR Model Name: SAL018F1 NA P/N: 332-10375-01 Power Rating: I/P: 100-120Vac, 47-63Hz, 0.6A O/P: 12Vdc, 1.5A Power Line: 1.82m non-shielded cable w/o core
2	Adapter 2	Brand Name: NETGEAR Model Name: AD817F10 P/N: 332-10301-02 Power Rating: I/P: 100-120Vac, 50/60Hz, 0.56A O/P: 12Vdc, 1.5A Power Line: 1.85m non-shielded cable w/o core
3	RJ45 cable	1m non-shielded cable w/o core

### 1.1.6 Channel List

Frequency band (MHz)		5725~5850	
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	<b>VHT80</b>	
161	5805	155	5775
165	5825	---	---

### 1.1.7 Test Tool and Duty Cycle

Test Tool	MT76xxE_AP, Version: V2.0.10.0 [0711]		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	99.64%	0.02
	VHT20	99.63%	0.02
	VHT40	99.24%	0.03
	VHT80	99.11%	0.04

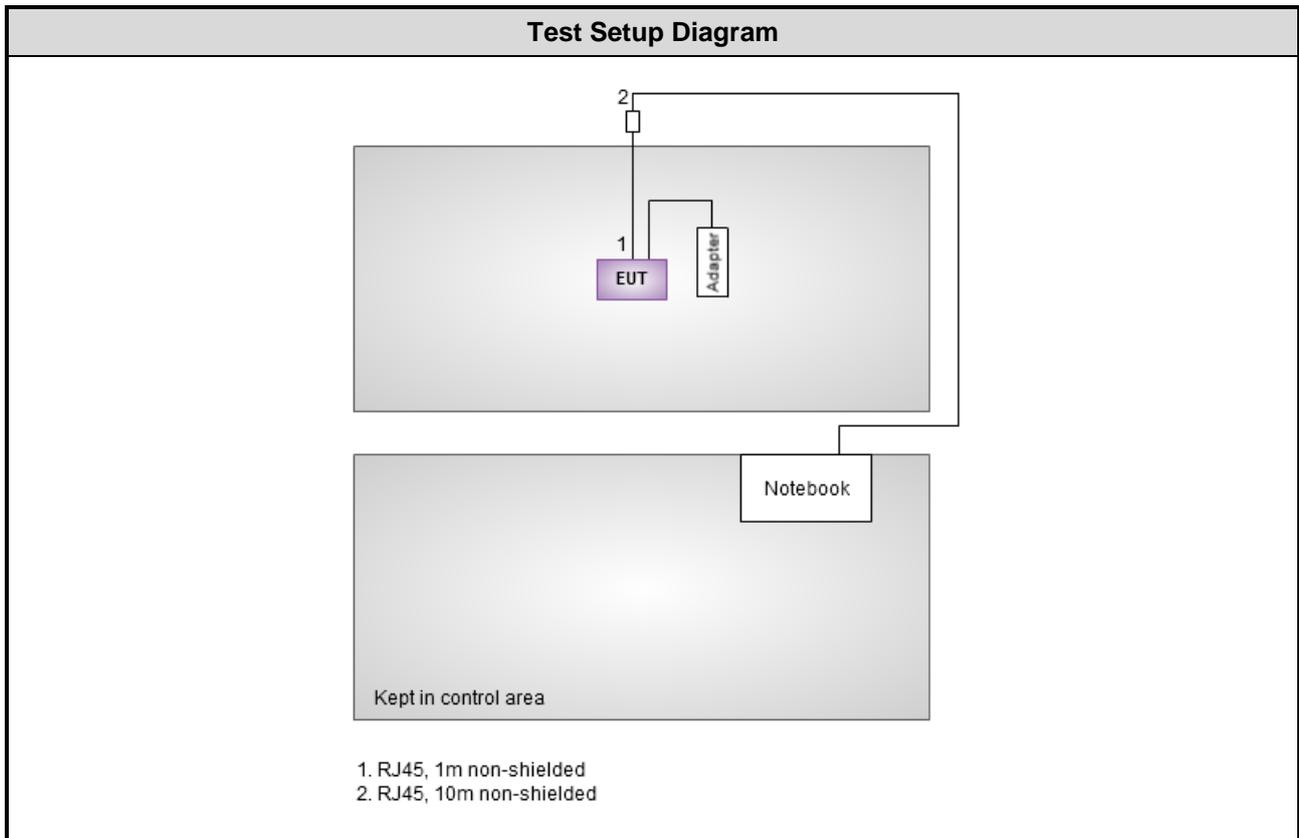
### 1.1.8 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	13
11a	5785	15
11a	5825	13
HT20	5745	18
HT20	5785	19
HT20	5825	18
HT40	5755	1B
HT40	5795	1F
VHT20	5745	18
VHT20	5785	19
VHT20	5825	18
VHT40	5755	1B
VHT40	5795	1F
VHT80	5775	17

## 1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	RJ45, 1m non-shielded and RJ45, 10m 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	100169	Oct. 15, 2013	Oct. 14, 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
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	VULB9168-522	Jan. 02, 2014	Jan. 01, 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	SN:100219	Nov. 28, 2013	Nov. 27, 2014
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014
Preamplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 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
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1207366	Oct. 24, 2013	Oct. 23, 2014
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 v03r01

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

## 1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±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	23°C / 53%	Skys Huang
Radiated Emissions	03CH01-WS	21-23°C / 62-64%	Haru Yang Brad Wu
RF Conducted	TH01-WS	21°C / 63%	Mark Liao

➤ 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 (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5795	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5795	MCS 0	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz 6dB bandwidth Power spectral density	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	

**NOTE:**

1. Adapter 1 and Adapter 2 had been pretested and found that **Adapter 1** was the worst case for all tests except Conducted emission test and **Adapter 2** was the worst case for Conducted emission test. (Adapter 1: SAL018F1 NA; Adapter 2: AD817F10).

## 3 Transmitter Test Results

### 3.1 Conducted Emissions

#### 3.1.1 Limit of Conducted Emissions

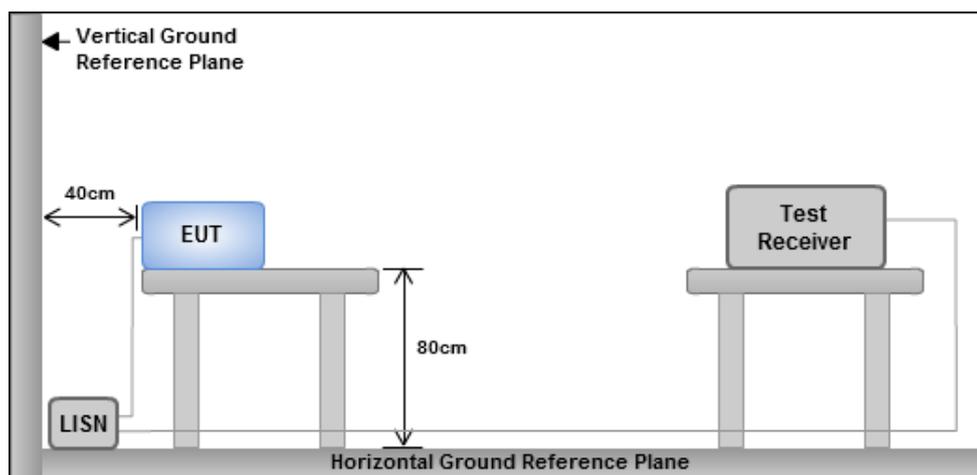
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

#### 3.1.2 Test Procedures

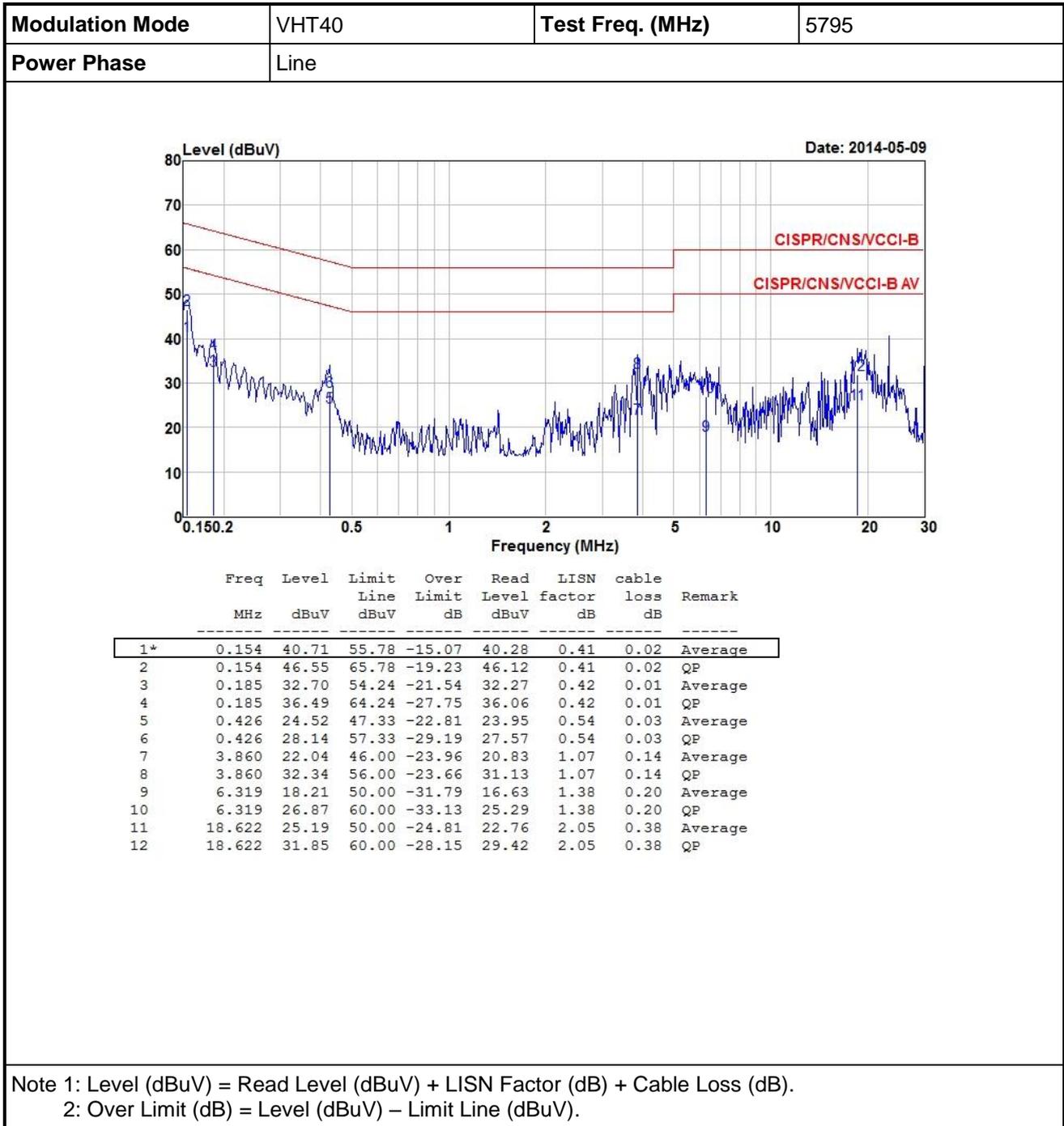
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  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

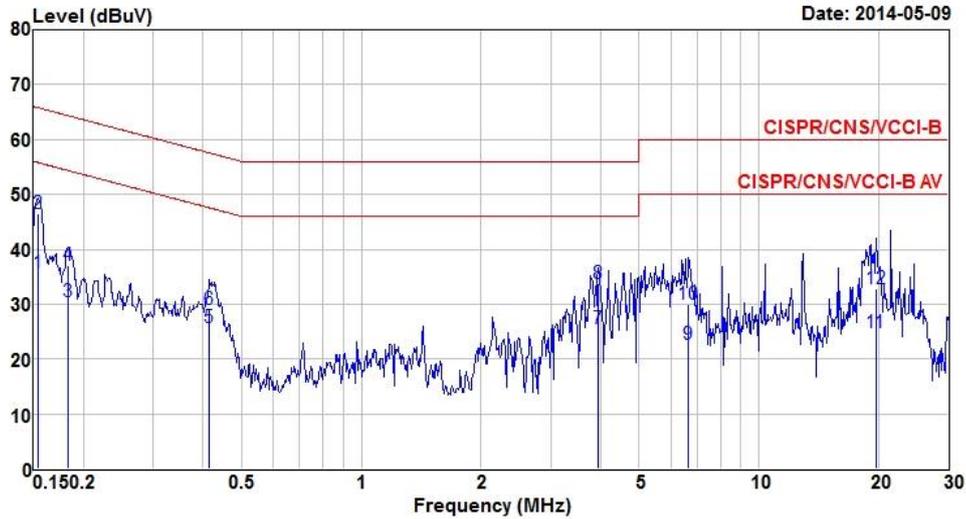


- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions



<b>Modulation Mode</b>	VHT40	<b>Test Freq. (MHz)</b>	5795
<b>Power Phase</b>	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.154	35.61	55.78	-20.17	35.10	0.49	0.02	Average
2*	0.154	46.61	65.78	-19.17	46.10	0.49	0.02	QP
3	0.183	30.44	54.33	-23.89	29.93	0.50	0.01	Average
4	0.183	37.05	64.33	-27.28	36.54	0.50	0.01	QP
5	0.415	25.84	47.55	-21.71	25.19	0.62	0.03	Average
6	0.415	28.92	57.55	-28.63	28.27	0.62	0.03	QP
7	3.943	25.49	46.00	-20.51	24.21	1.13	0.15	Average
8	3.943	33.71	56.00	-22.29	32.43	1.13	0.15	QP
9	6.662	22.77	50.00	-27.23	21.10	1.46	0.21	Average
10	6.662	29.97	60.00	-30.03	28.30	1.46	0.21	QP
11	19.740	24.78	50.00	-25.22	21.81	2.58	0.39	Average
12	19.740	32.73	60.00	-27.27	29.76	2.58	0.39	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

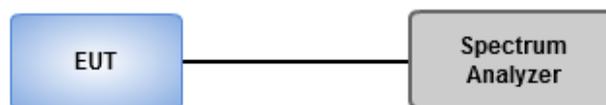
### 3.2.1 Limit of 6dB Bandwidth

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

### 3.2.2 Test Procedures

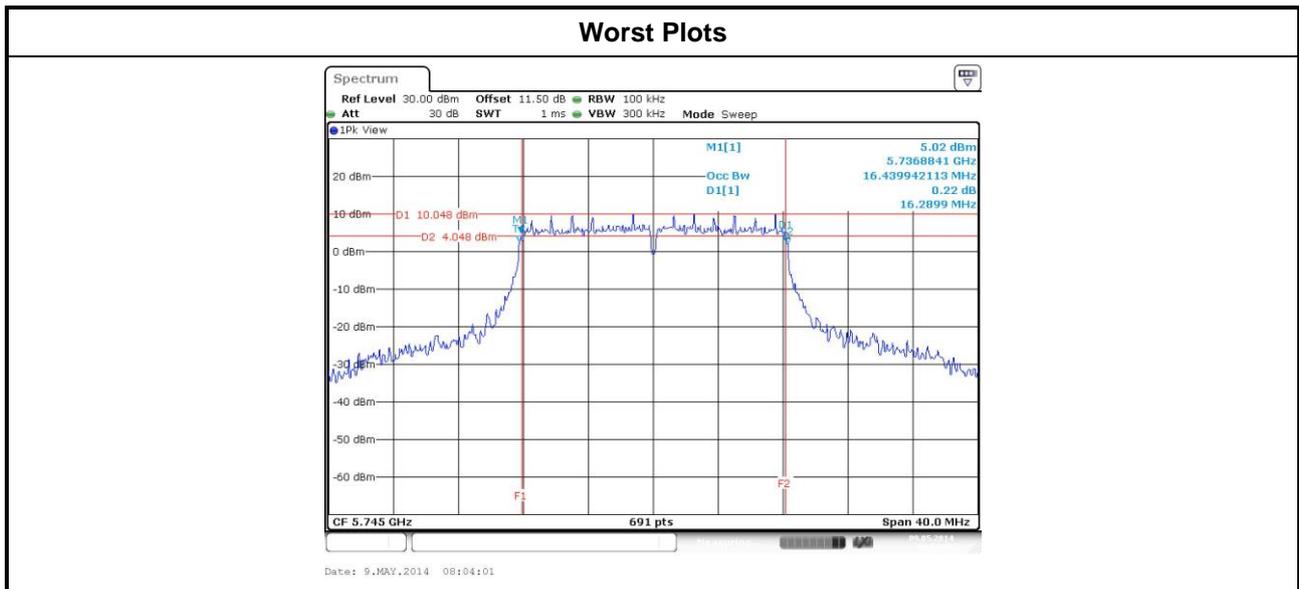
1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points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

### 3.2.3 Test Setup

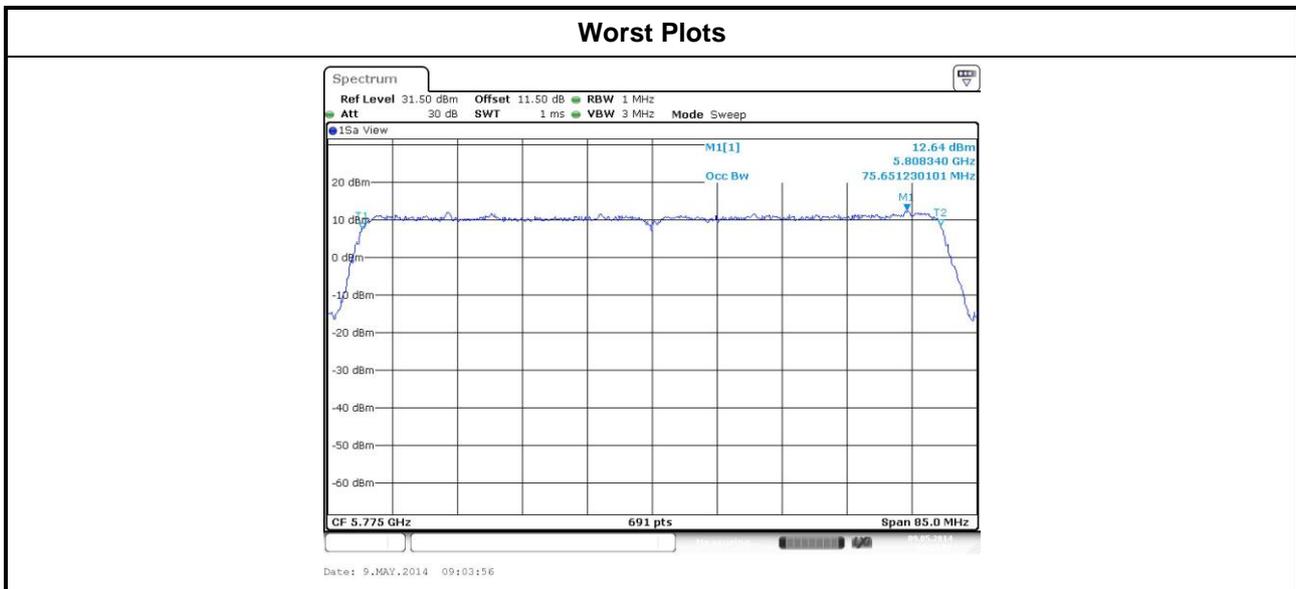


### 3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5745	16.29	---	---	---	500
11a	1	5785	16.29	---	---	---	500
11a	1	5825	16.35	---	---	---	500
VHT20	1	5745	16.93	---	---	---	500
VHT20	1	5785	17.04	---	---	---	500
VHT20	1	5825	16.93	---	---	---	500
VHT40	1	5755	36.06	---	---	---	500
VHT40	1	5795	36.06	---	---	---	500
VHT80	1	5775	75.36	---	---	---	500



Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11a	1	5745	16.79	---	---	---
11a	1	5785	16.86	---	---	---
11a	1	5825	16.82	---	---	---
VHT20	1	5745	17.58	---	---	---
VHT20	1	5785	17.66	---	---	---
VHT20	1	5825	17.62	---	---	---
VHT40	1	5755	36.40	---	---	---
VHT40	1	5795	36.73	---	---	---
VHT80	1	5775	75.65	---	---	---



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

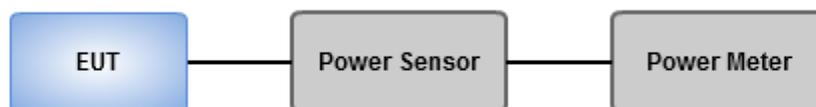
- Antenna gain  $\leq$  6dBi, no any corresponding reduction is in output power limit.
- Antenna gain  $>$  6dBi
  - Non Fixed, point to point operations.  
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 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
  - 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

Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5745	21.70	---	---	---	147.911	21.70	30.00
11a	1	5785	22.89	---	---	---	194.536	22.89	30.00
11a	1	5825	22.31	---	---	---	170.216	22.31	30.00
HT20	1	5745	21.95	---	---	---	156.675	21.95	30.00
HT20	1	5785	22.55	---	---	---	179.887	22.55	30.00
HT20	1	5825	22.24	---	---	---	167.494	22.24	30.00
HT40	1	5755	22.96	---	---	---	197.697	22.96	30.00
HT40	1	5795	24.85	---	---	---	305.492	24.85	30.00
VHT20	1	5745	22.06	---	---	---	160.694	22.06	30.00
VHT20	1	5785	22.64	---	---	---	183.654	22.64	30.00
VHT20	1	5825	22.35	---	---	---	171.791	22.35	30.00
VHT40	1	5755	23.03	---	---	---	200.909	23.03	30.00
VHT40	1	5795	24.92	---	---	---	310.456	24.92	30.00
VHT80	1	5775	21.20	---	---	---	131.826	21.20	30.00

### 3.4 Power Spectral Density

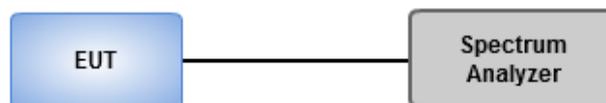
#### 3.4.1 Limit of Power Spectral Density

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 = 30kHz, VBW = 100kHz.
  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 = 30kHz, VBW = 100 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.

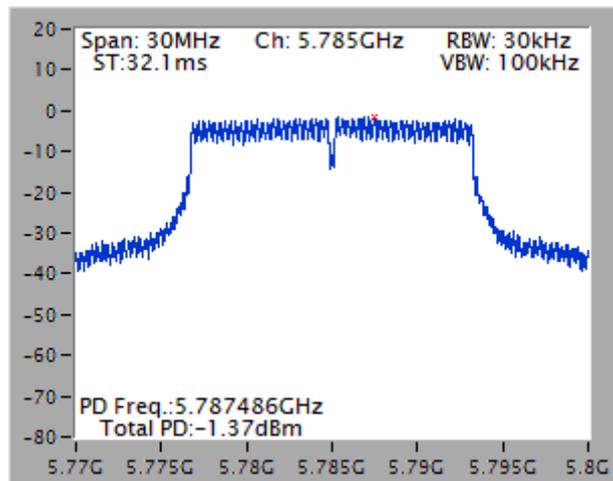
#### 3.4.3 Test Setup



### 3.4.4 Test Result of Power Spectral Density

Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Total Power Spectral Density (dBm/30kHz)	Limit (dBm/3kHz)
11a	1	5745	-2.73	8.00
11a	1	5785	-1.37	8.00
11a	1	5825	-1.52	8.00
VHT20	1	5745	-2.71	8.00
VHT20	1	5785	-1.81	8.00
VHT20	1	5825	-1.84	8.00
VHT40	1	5755	-3.73	8.00
VHT40	1	5795	-2.20	8.00
VHT80	1	5775	-7.19	8.00

**Worst Plots**



## 3.5 Unwanted Emissions into Restricted Frequency Bands

### 3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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

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

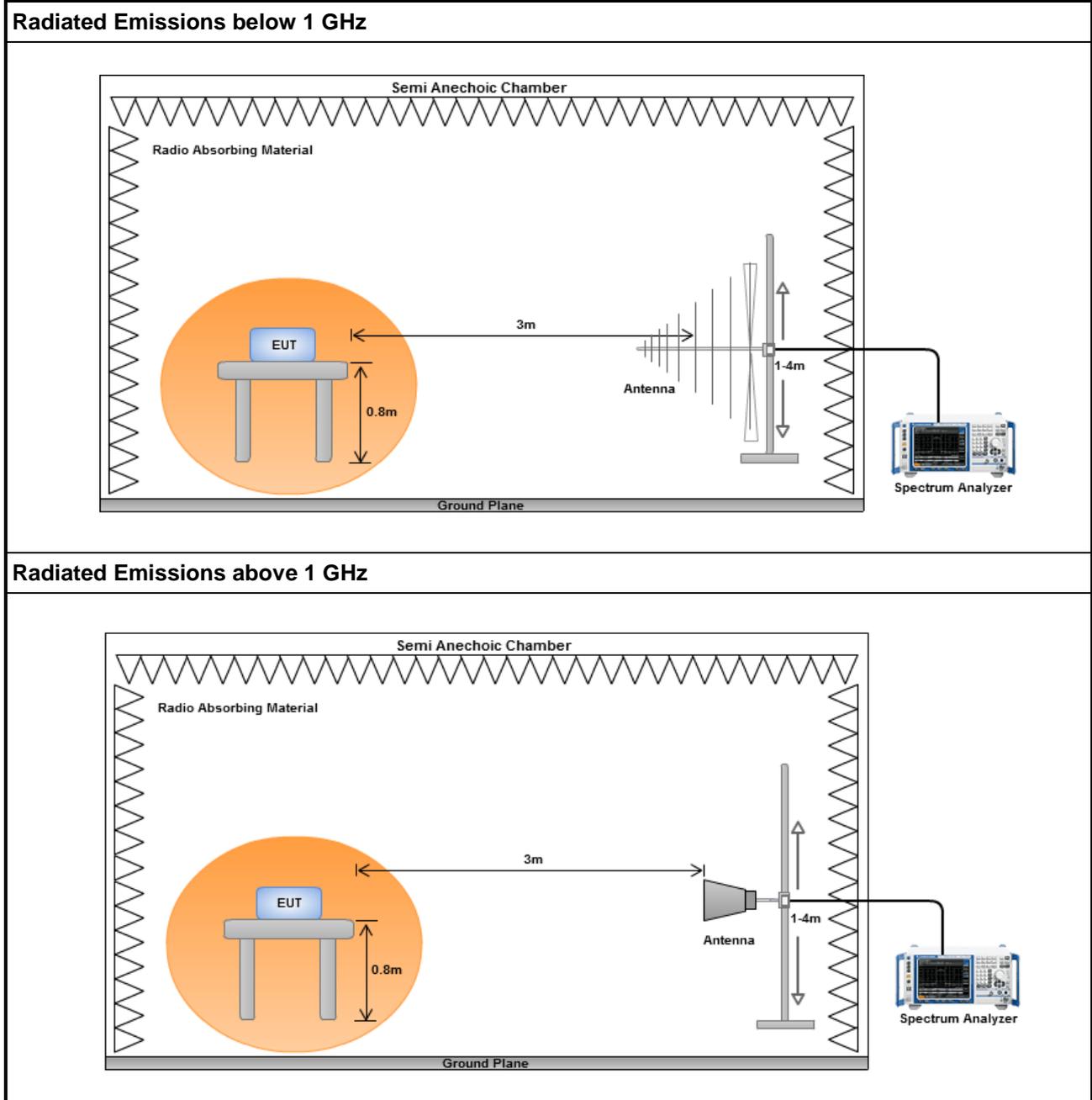
### 3.5.2 Test Procedures

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

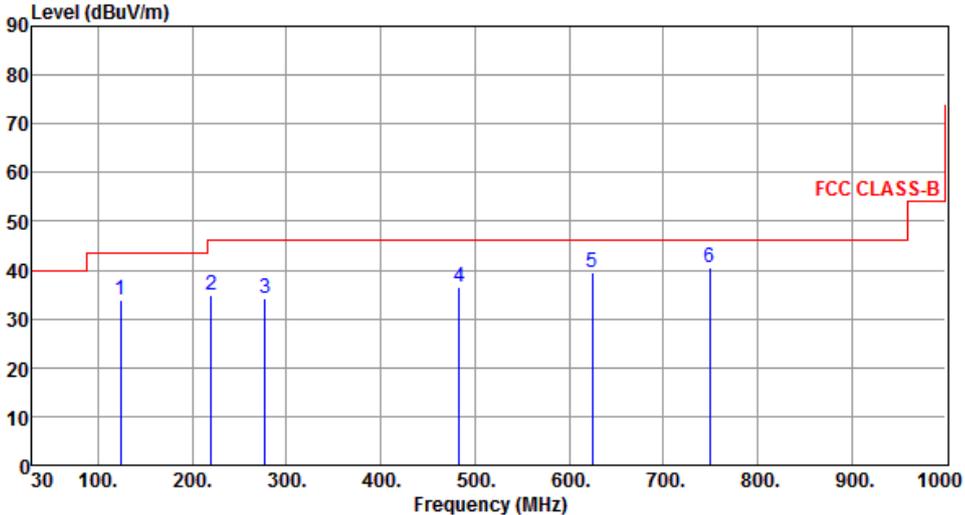
Note:

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

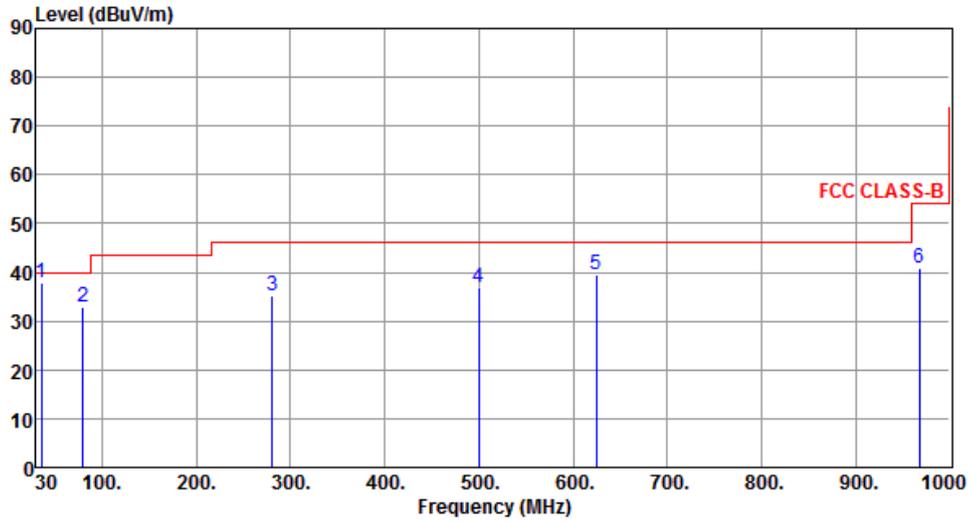
### 3.5.3 Test Setup



### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5795																																																																									
Polarization	Horizontal																																																																											
																																																																												
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>33.79</td> <td>43.50</td> <td>-9.71</td> <td>52.58</td> <td>-18.79</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>34.93</td> <td>46.00</td> <td>-11.07</td> <td>54.03</td> <td>-19.10</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>34.18</td> <td>46.00</td> <td>-11.82</td> <td>50.94</td> <td>-16.76</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>36.38</td> <td>46.00</td> <td>-9.62</td> <td>48.26</td> <td>-11.88</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>39.41</td> <td>46.00</td> <td>-6.59</td> <td>48.60</td> <td>-9.19</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>40.54</td> <td>46.00</td> <td>-5.46</td> <td>47.78</td> <td>-7.24</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB				1	33.79	43.50	-9.71	52.58	-18.79	Peak	---	---	2	34.93	46.00	-11.07	54.03	-19.10	Peak	---	---	3	34.18	46.00	-11.82	50.94	-16.76	Peak	---	---	4	36.38	46.00	-9.62	48.26	-11.88	Peak	---	---	5	39.41	46.00	-6.59	48.60	-9.19	Peak	---	---	6	40.54	46.00	-5.46	47.78	-7.24	Peak	---	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg																																																																				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB																																																																							
1	33.79	43.50	-9.71	52.58	-18.79	Peak	---	---																																																																				
2	34.93	46.00	-11.07	54.03	-19.10	Peak	---	---																																																																				
3	34.18	46.00	-11.82	50.94	-16.76	Peak	---	---																																																																				
4	36.38	46.00	-9.62	48.26	-11.88	Peak	---	---																																																																				
5	39.41	46.00	-6.59	48.60	-9.19	Peak	---	---																																																																				
6	40.54	46.00	-5.46	47.78	-7.24	Peak	---	---																																																																				
<p>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.</p>																																																																												

<b>Modulation</b>	VHT40	<b>Test Freq. (MHz)</b>	5795
<b>Polarization</b>	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	35.82	37.96	40.00	-2.04	55.28	-17.32	QP	---	---
2	79.47	33.04	40.00	-6.96	54.56	-21.52	Peak	---	---
3	280.26	35.06	46.00	-10.94	51.67	-16.61	Peak	---	---
4	499.48	36.92	46.00	-9.08	48.48	-11.56	Peak	---	---
5	624.61	39.66	46.00	-6.34	48.85	-9.19	Peak	---	---
6	967.99	40.81	54.00	-13.19	45.39	-4.58	Peak	---	---

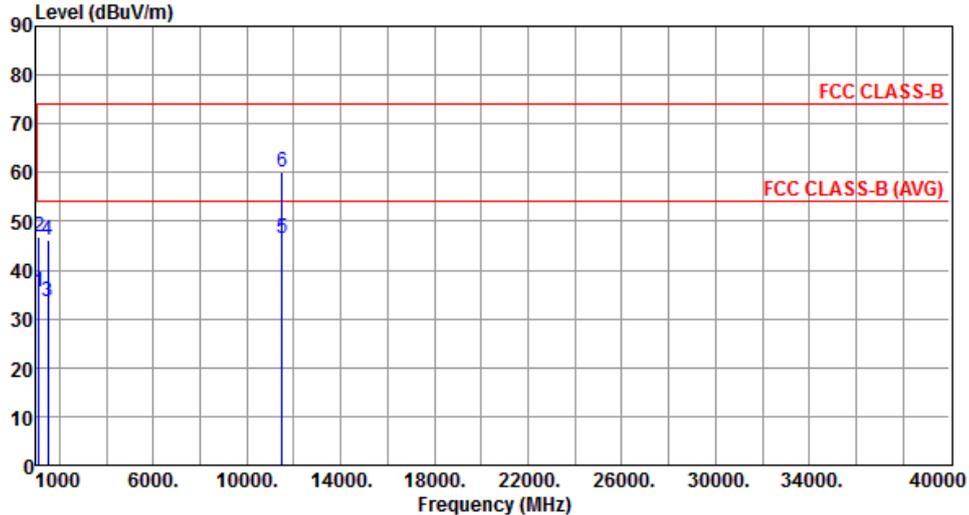
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

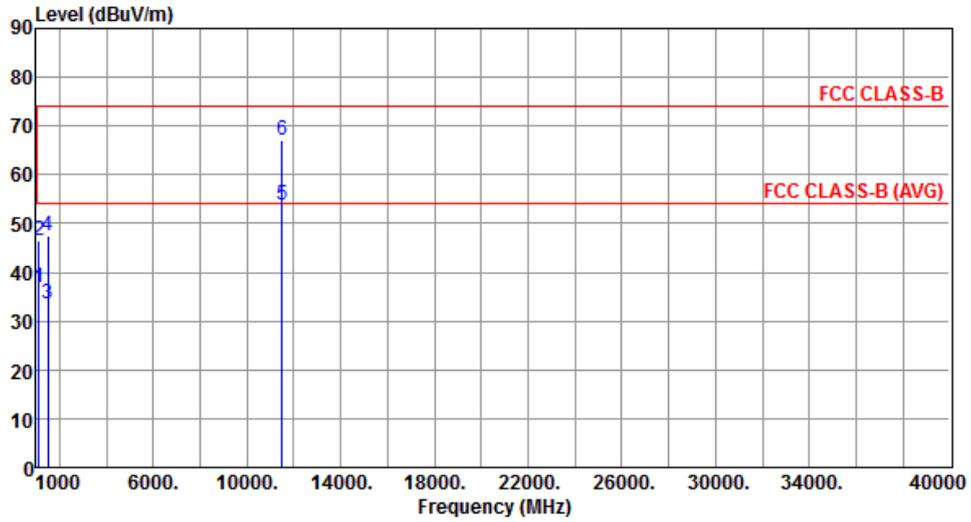
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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

Modulation	11a	Test Freq. (MHz)	5745						
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1125.00	35.62	54.00	-18.38	45.13	-9.51	Average	---	---
2	1125.00	46.69	74.00	-27.31	56.20	-9.51	Peak	---	---
3	1500.00	33.45	54.00	-20.55	40.58	-7.13	Average	---	---
4	1500.00	46.23	74.00	-27.77	53.36	-7.13	Peak	---	---
5	11490.00	46.45	54.00	-7.55	31.88	14.57	Average	---	---
6	11490.00	60.08	74.00	-13.92	45.51	14.57	Peak	---	---
<p>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).</p>									

<b>Modulation</b>	11a	<b>Test Freq. (MHz)</b>	5745
<b>Polarization</b>	Vertical		



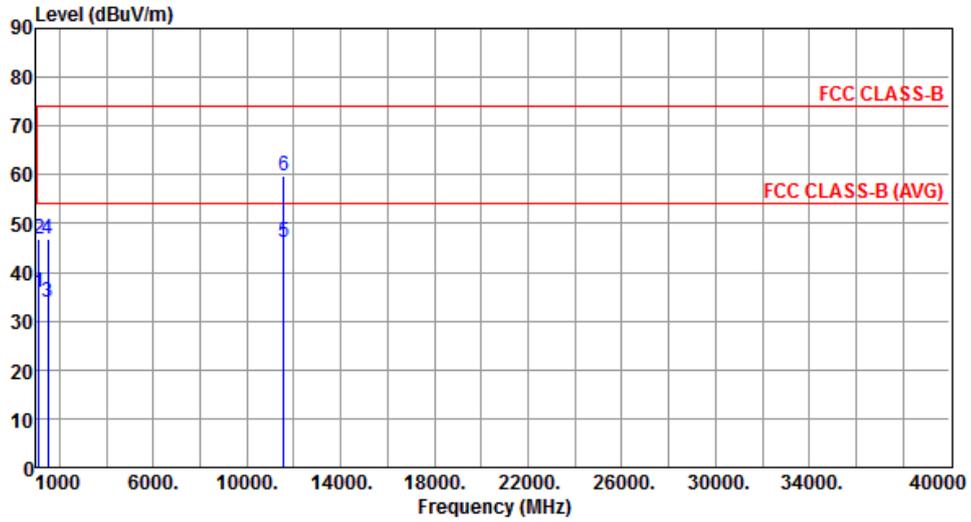
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.74	54.00	-17.26	46.25	-9.51	Average	---	---
2	1125.00	46.58	74.00	-27.42	56.09	-9.51	Peak	---	---
3	1500.00	33.56	54.00	-20.44	40.69	-7.13	Average	---	---
4	1500.00	47.41	74.00	-26.59	54.54	-7.13	Peak	---	---
5	11490.00	53.88	54.00	-0.12	39.31	14.57	Average	---	---
6	11490.00	67.21	74.00	-6.79	52.64	14.57	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).

<b>Modulation</b>	11a	<b>Test Freq. (MHz)</b>	5785
<b>Polarization</b>	Horizontal		



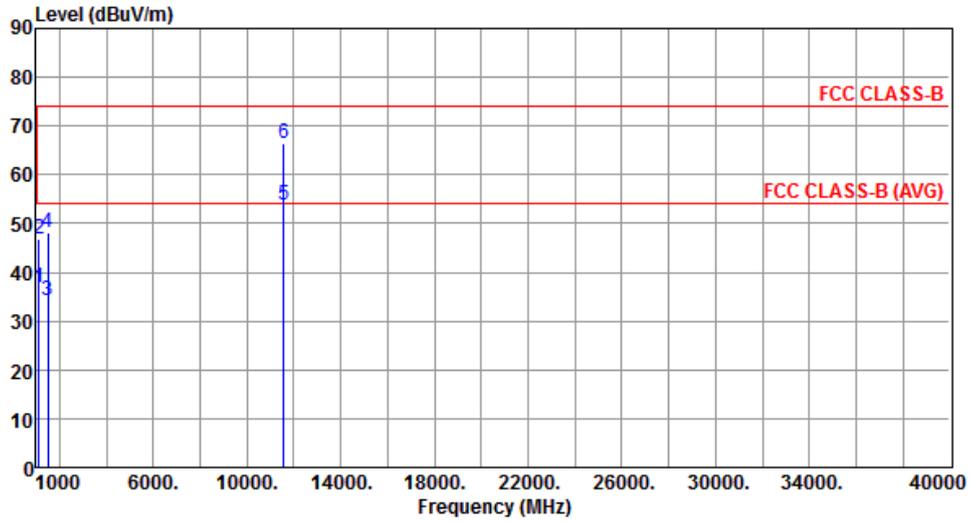
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	35.86	54.00	-18.14	45.37	-9.51	Average	---	---
2	1125.00	46.79	74.00	-27.21	56.30	-9.51	Peak	---	---
3	1500.00	33.95	54.00	-20.05	41.08	-7.13	Average	---	---
4	1500.00	46.67	74.00	-27.33	53.80	-7.13	Peak	---	---
5	11570.00	46.28	54.00	-7.72	31.79	14.49	Average	---	---
6	11570.00	59.92	74.00	-14.08	45.43	14.49	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).

<b>Modulation</b>	11a	<b>Test Freq. (MHz)</b>	5785
<b>Polarization</b>	Vertical		



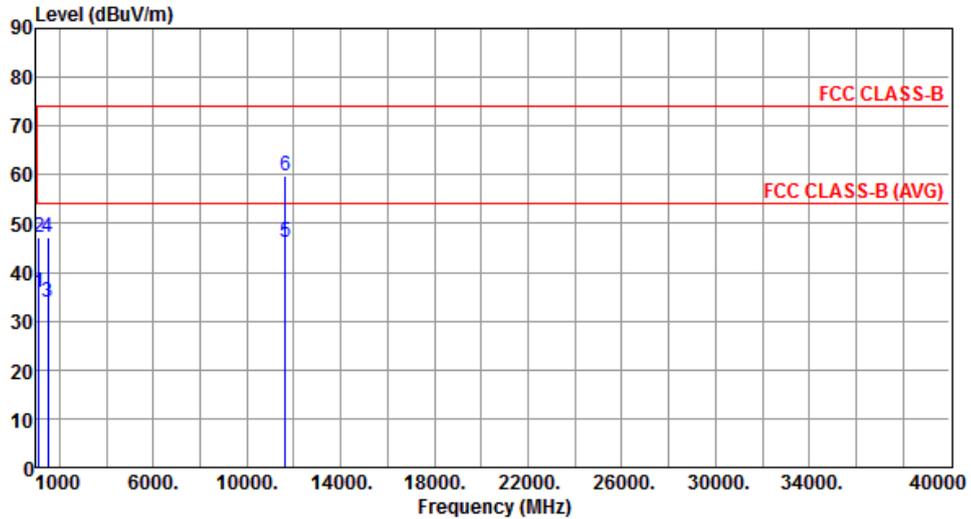
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.88	54.00	-17.12	46.39	-9.51	Average	---	---
2	1125.00	46.72	74.00	-27.28	56.23	-9.51	Peak	---	---
3	1500.00	34.07	54.00	-19.93	41.20	-7.13	Average	---	---
4	1500.00	48.11	74.00	-25.89	55.24	-7.13	Peak	---	---
5	11570.00	53.70	54.00	-0.30	39.21	14.49	Average	---	---
6	11570.00	66.39	74.00	-7.61	51.90	14.49	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).

<b>Modulation</b>	11a	<b>Test Freq. (MHz)</b>	5825
<b>Polarization</b>	Horizontal		



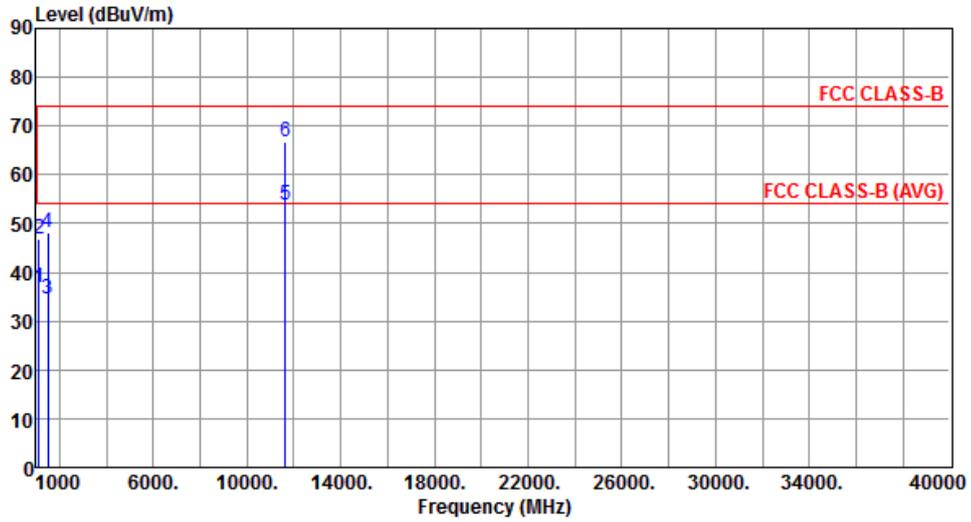
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	35.88	54.00	-18.12	45.39	-9.51	Average	---	---
2	1125.00	47.24	74.00	-26.76	56.75	-9.51	Peak	---	---
3	1500.00	33.96	54.00	-20.04	41.09	-7.13	Average	---	---
4	1500.00	47.18	74.00	-26.82	54.31	-7.13	Peak	---	---
5	11650.00	46.17	54.00	-7.83	31.78	14.39	Average	---	---
6	11650.00	59.81	74.00	-14.19	45.42	14.39	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).

<b>Modulation</b>	11a	<b>Test Freq. (MHz)</b>	5825
<b>Polarization</b>	Vertical		



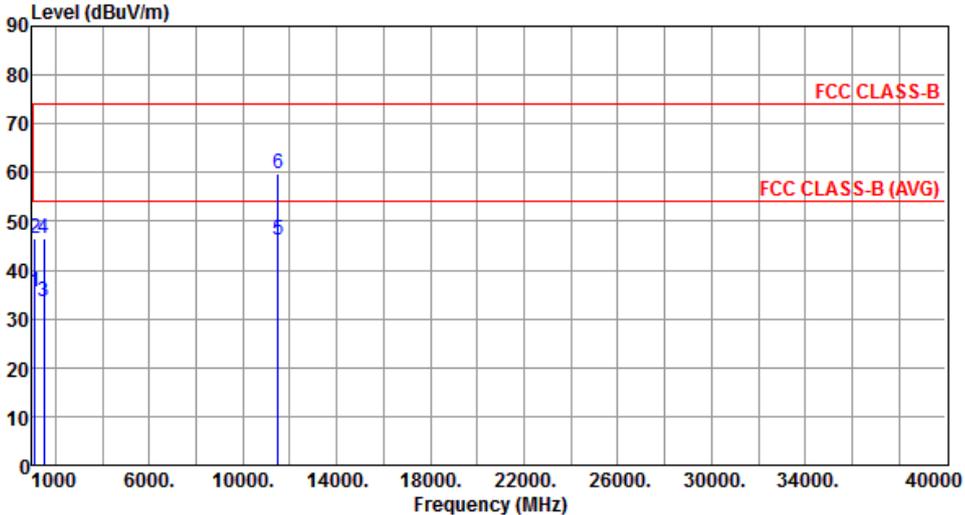
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.98	54.00	-17.02	46.49	-9.51	Average	---	---
2	1125.00	46.92	74.00	-27.08	56.43	-9.51	Peak	---	---
3	1500.00	34.51	54.00	-19.49	41.64	-7.13	Average	---	---
4	1500.00	48.14	74.00	-25.86	55.27	-7.13	Peak	---	---
5	11650.00	53.89	54.00	-0.11	39.50	14.39	Average	---	---
6	11650.00	66.75	74.00	-7.25	52.36	14.39	Peak	---	---

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

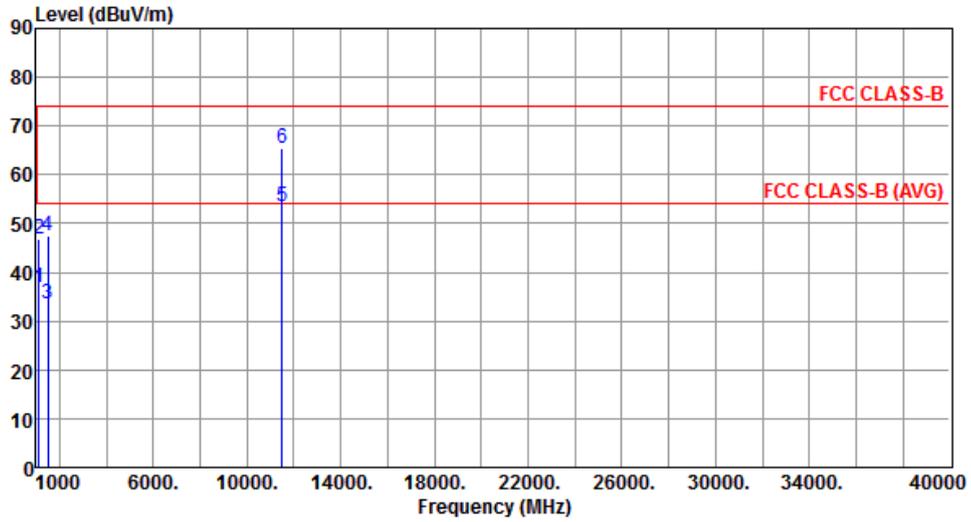
\*Factor includes antenna factor , cable loss and amplifier gain

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

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5745						
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1125.00	35.44	54.00	-18.56	44.95	-9.51	Average	---	---
2	1125.00	46.38	74.00	-27.62	55.89	-9.51	Peak	---	---
3	1500.00	33.61	54.00	-20.39	40.74	-7.13	Average	---	---
4	1500.00	46.45	74.00	-27.55	53.58	-7.13	Peak	---	---
5	11490.00	46.28	54.00	-7.72	31.71	14.57	Average	---	---
6	11490.00	59.87	74.00	-14.13	45.30	14.57	Peak	---	---
<p>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).</p>									

<b>Modulation</b>	VHT20	<b>Test Freq. (MHz)</b>	5745
<b>Polarization</b>	Vertical		



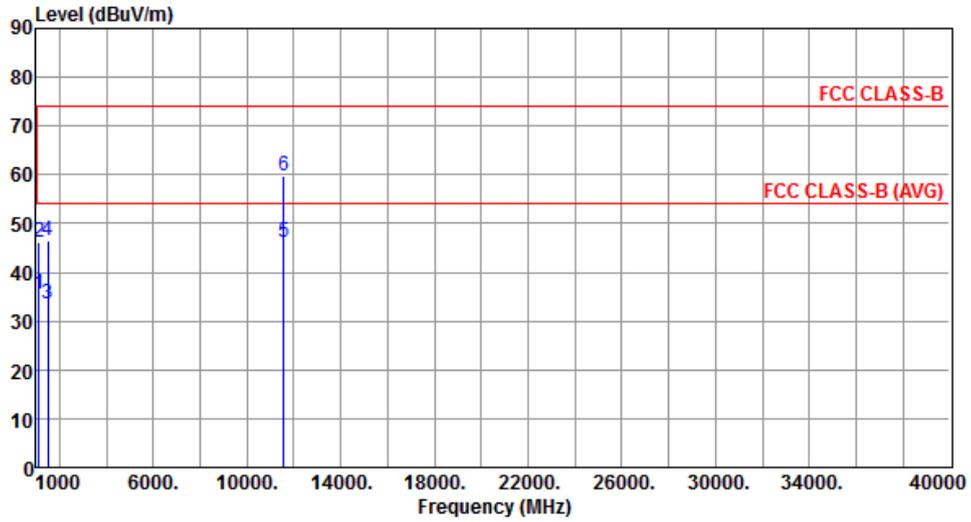
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.88	54.00	-17.12	46.39	-9.51	Average	---	---
2	1125.00	46.74	74.00	-27.26	56.25	-9.51	Peak	---	---
3	1500.00	33.65	54.00	-20.35	40.78	-7.13	Average	---	---
4	1500.00	47.54	74.00	-26.46	54.67	-7.13	Peak	---	---
5	11490.00	53.59	54.00	-0.41	39.02	14.57	Average	---	---
6	11490.00	65.50	74.00	-8.50	50.93	14.57	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).

<b>Modulation</b>	VHT20	<b>Test Freq. (MHz)</b>	5785
<b>Polarization</b>	Horizontal		



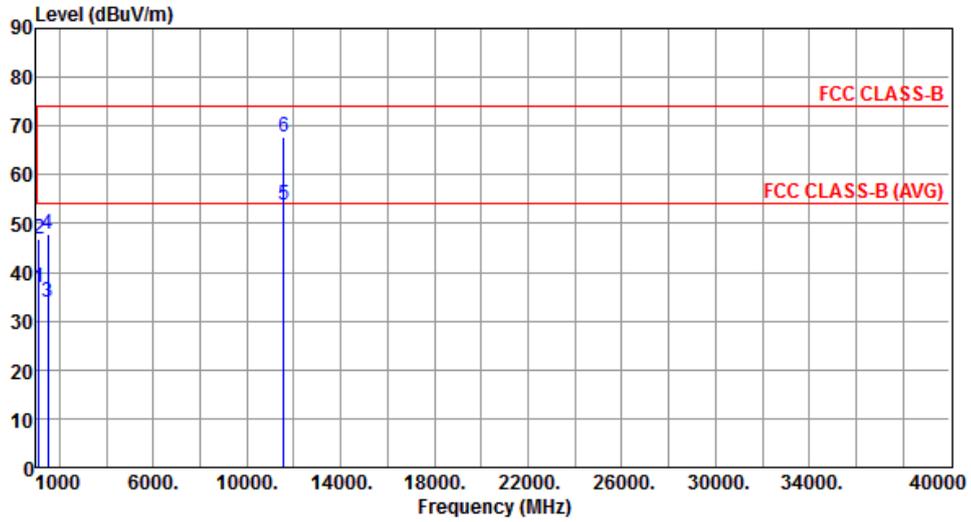
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	35.43	54.00	-18.57	44.94	-9.51	Average	---	---
2	1125.00	46.31	74.00	-27.69	55.82	-9.51	Peak	---	---
3	1500.00	33.46	54.00	-20.54	40.59	-7.13	Average	---	---
4	1500.00	46.38	74.00	-27.62	53.51	-7.13	Peak	---	---
5	11570.00	46.15	54.00	-7.85	31.66	14.49	Average	---	---
6	11570.00	59.68	74.00	-14.32	45.19	14.49	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).

<b>Modulation</b>	VHT20	<b>Test Freq. (MHz)</b>	5785
<b>Polarization</b>	Vertical		



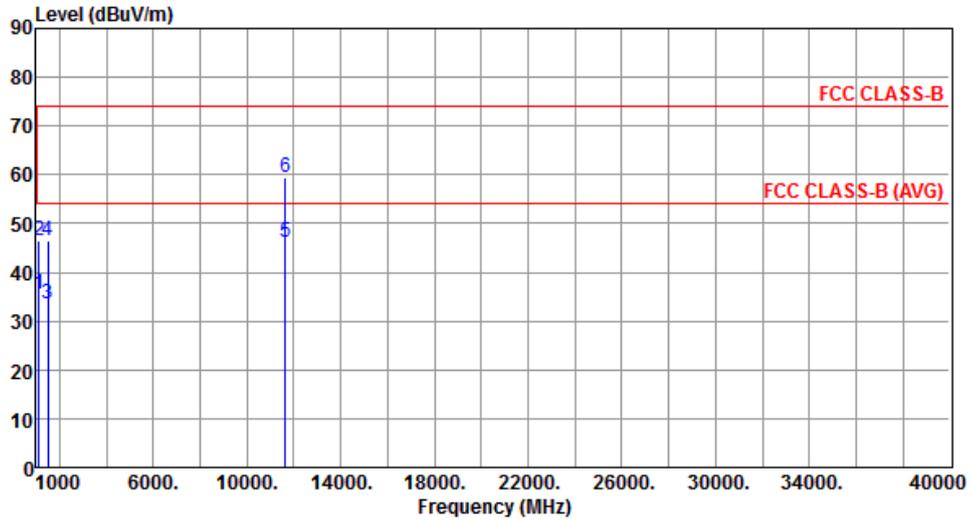
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.95	54.00	-17.05	46.46	-9.51	Average	---	---
2	1125.00	46.89	74.00	-27.11	56.40	-9.51	Peak	---	---
3	1500.00	33.86	54.00	-20.14	40.99	-7.13	Average	---	---
4	1500.00	47.82	74.00	-26.18	54.95	-7.13	Peak	---	---
5	11570.00	53.80	54.00	-0.20	39.31	14.49	Average	---	---
6	11570.00	67.88	74.00	-6.12	53.39	14.49	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).

<b>Modulation</b>	VHT20	<b>Test Freq. (MHz)</b>	5825
<b>Polarization</b>	Horizontal		



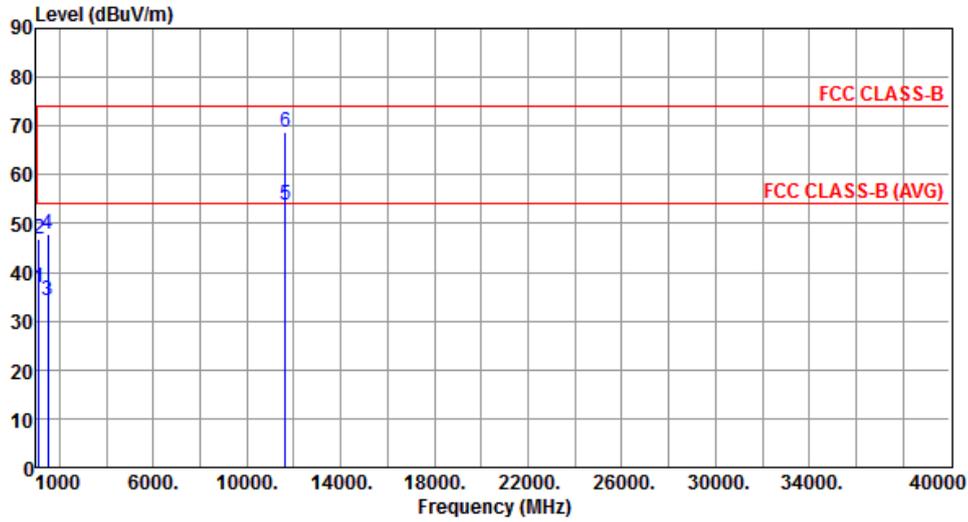
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	35.46	54.00	-18.54	44.97	-9.51	Average	---	---
2	1125.00	46.38	74.00	-27.62	55.89	-9.51	Peak	---	---
3	1500.00	33.52	54.00	-20.48	40.65	-7.13	Average	---	---
4	1500.00	46.45	74.00	-27.55	53.58	-7.13	Peak	---	---
5	11650.00	46.02	54.00	-7.98	31.63	14.39	Average	---	---
6	11650.00	59.57	74.00	-14.43	45.18	14.39	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).

<b>Modulation</b>	VHT20	<b>Test Freq. (MHz)</b>	5825
<b>Polarization</b>	Vertical		



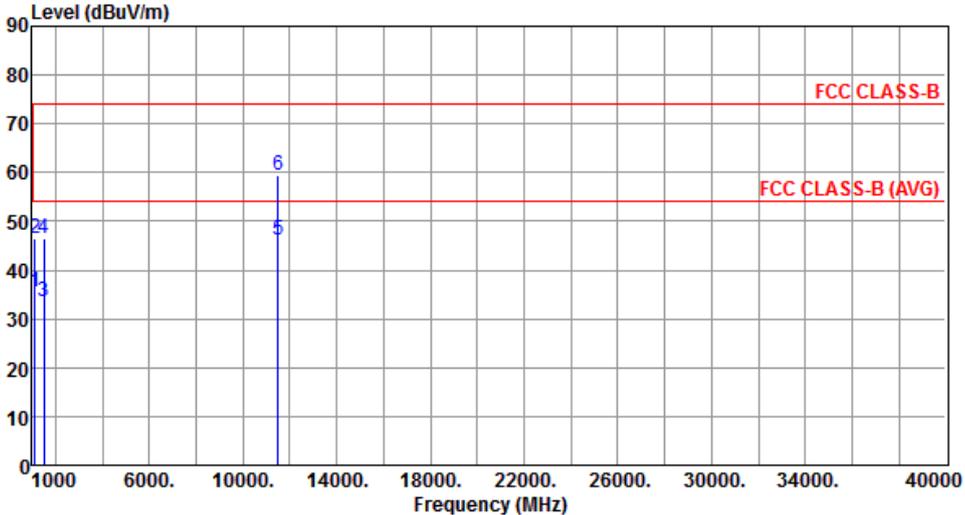
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	36.88	54.00	-17.12	46.39	-9.51	Average	---	---
2	1125.00	46.79	74.00	-27.21	56.30	-9.51	Peak	---	---
3	1500.00	34.12	54.00	-19.88	41.25	-7.13	Average	---	---
4	1500.00	47.96	74.00	-26.04	55.09	-7.13	Peak	---	---
5	11650.00	53.83	54.00	-0.17	39.44	14.39	Average	---	---
6	11650.00	68.81	74.00	-5.19	54.42	14.39	Peak	---	---

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

\*Factor includes antenna factor , cable loss and amplifier gain

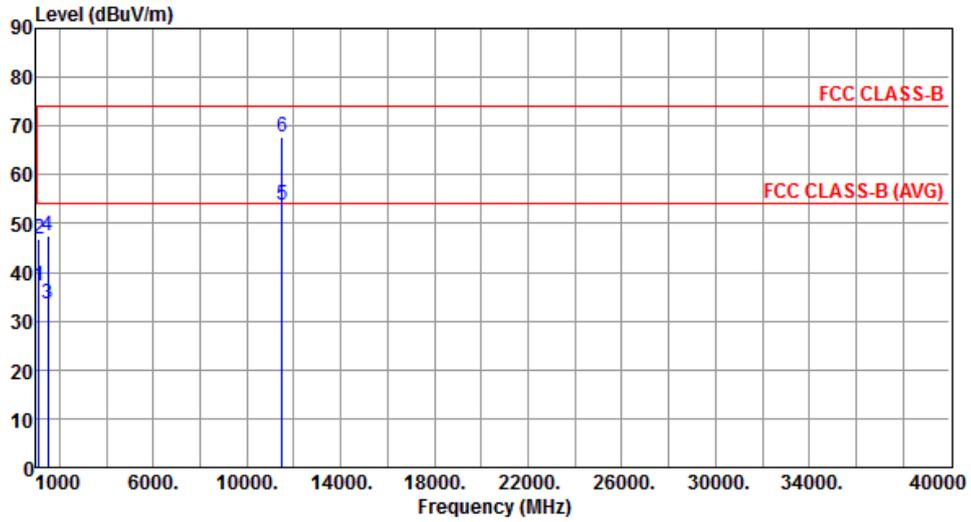
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5755						
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1125.00	35.62	54.00	-18.38	45.13	-9.51	Average	---	---
2	1125.00	46.55	74.00	-27.45	56.06	-9.51	Peak	---	---
3	1500.00	33.58	54.00	-20.42	40.71	-7.13	Average	---	---
4	1500.00	46.52	74.00	-27.48	53.65	-7.13	Peak	---	---
5	11510.00	46.08	54.00	-7.92	31.53	14.55	Average	---	---
6	11510.00	59.52	74.00	-14.48	44.97	14.55	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).

<b>Modulation</b>	VHT40	<b>Test Freq. (MHz)</b>	5755
<b>Polarization</b>	Vertical		



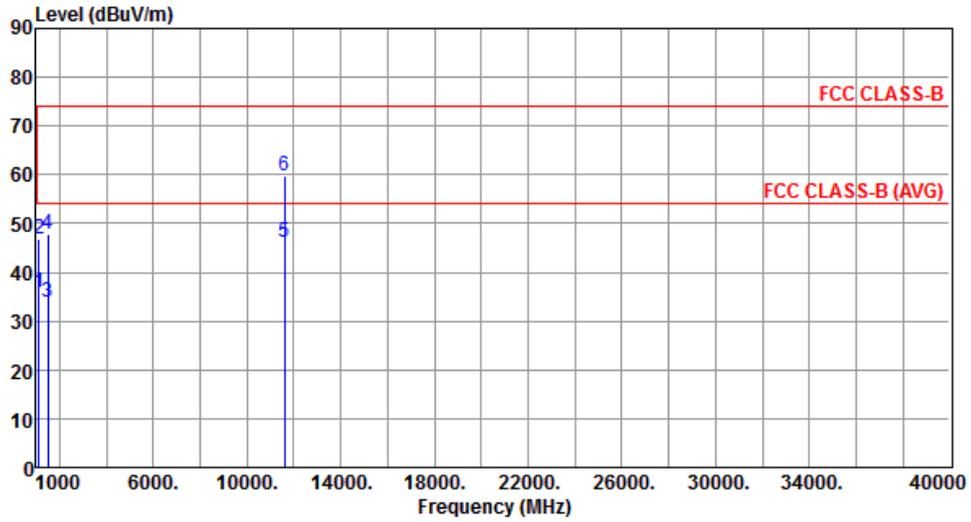
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	37.21	54.00	-16.79	46.72	-9.51	Average	---	---
2	1125.00	46.94	74.00	-27.06	56.45	-9.51	Peak	---	---
3	1500.00	33.65	54.00	-20.35	40.78	-7.13	Average	---	---
4	1500.00	47.58	74.00	-26.42	54.71	-7.13	Peak	---	---
5	11510.00	53.84	54.00	-0.16	39.29	14.55	Average	---	---
6	11510.00	67.84	74.00	-6.16	53.29	14.55	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).

<b>Modulation</b>	VHT40	<b>Test Freq. (MHz)</b>	5795
<b>Polarization</b>	Horizontal		



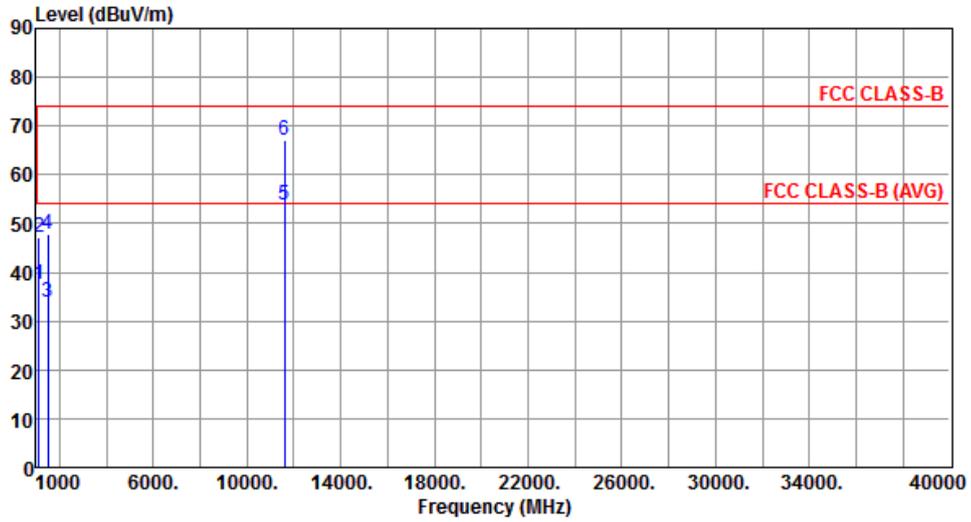
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	35.78	54.00	-18.22	45.29	-9.51	Average	---	---
2	1125.00	46.91	74.00	-27.09	56.42	-9.51	Peak	---	---
3	1500.00	33.95	54.00	-20.05	41.08	-7.13	Average	---	---
4	1500.00	47.81	74.00	-26.19	54.94	-7.13	Peak	---	---
5	11590.00	46.24	54.00	-7.76	31.79	14.45	Average	---	---
6	11590.00	59.75	74.00	-14.25	45.30	14.45	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).

<b>Modulation</b>	VHT40	<b>Test Freq. (MHz)</b>	5795
<b>Polarization</b>	Vertical		



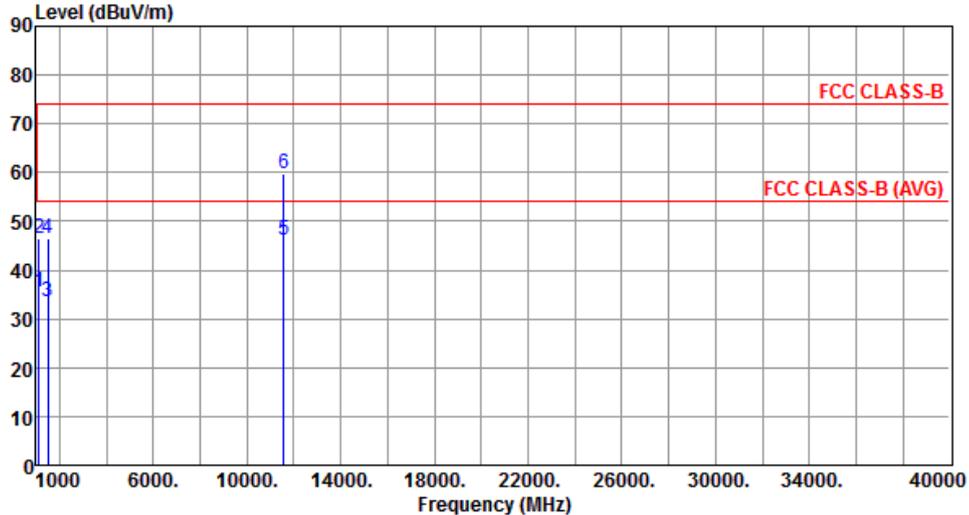
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	37.48	54.00	-16.52	46.99	-9.51	Average	---	---
2	1125.00	47.16	74.00	-26.84	56.67	-9.51	Peak	---	---
3	1500.00	33.81	54.00	-20.19	40.94	-7.13	Average	---	---
4	1500.00	47.69	74.00	-26.31	54.82	-7.13	Peak	---	---
5	11590.00	53.87	54.00	-0.13	39.42	14.45	Average	---	---
6	11590.00	66.94	74.00	-7.06	52.49	14.45	Peak	---	---

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

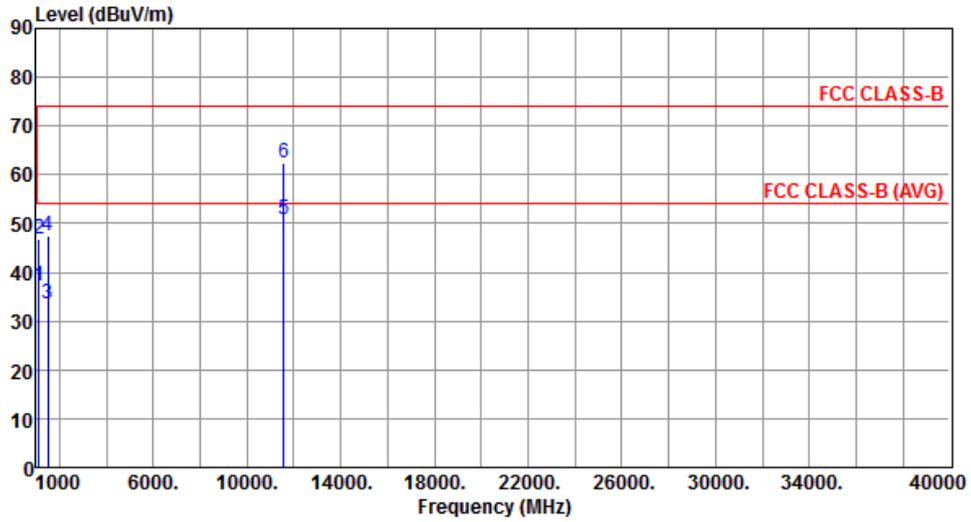
\*Factor includes antenna factor , cable loss and amplifier gain

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

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5775						
Polarization	Horizontal								
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1125.00	35.51	54.00	-18.49	45.02	-9.51	Average	---	---
2	1125.00	46.45	74.00	-27.55	55.96	-9.51	Peak	---	---
3	1500.00	33.42	54.00	-20.58	40.55	-7.13	Average	---	---
4	1500.00	46.37	74.00	-27.63	53.50	-7.13	Peak	---	---
5	11550.00	46.13	54.00	-7.87	31.63	14.50	Average	---	---
6	11550.00	59.64	74.00	-14.36	45.14	14.50	Peak	---	---
<p>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).</p>									

<b>Modulation</b>	VHT80	<b>Test Freq. (MHz)</b>	5775
<b>Polarization</b>	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1125.00	37.06	54.00	-16.94	46.57	-9.51	Average	---	---
2	1125.00	46.81	74.00	-27.19	56.32	-9.51	Peak	---	---
3	1500.00	33.51	54.00	-20.49	40.64	-7.13	Average	---	---
4	1500.00	47.42	74.00	-26.58	54.55	-7.13	Peak	---	---
5	11550.00	50.65	54.00	-3.35	36.15	14.50	Average	---	---
6	11550.00	62.39	74.00	-11.61	47.89	14.50	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 Unwanted Emissions into Non-Restricted Frequency Bands

### 3.6.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

The peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

### 3.6.2 Test Procedures

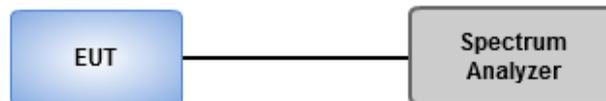
#### Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

#### Unwanted Emissions Level Measurement

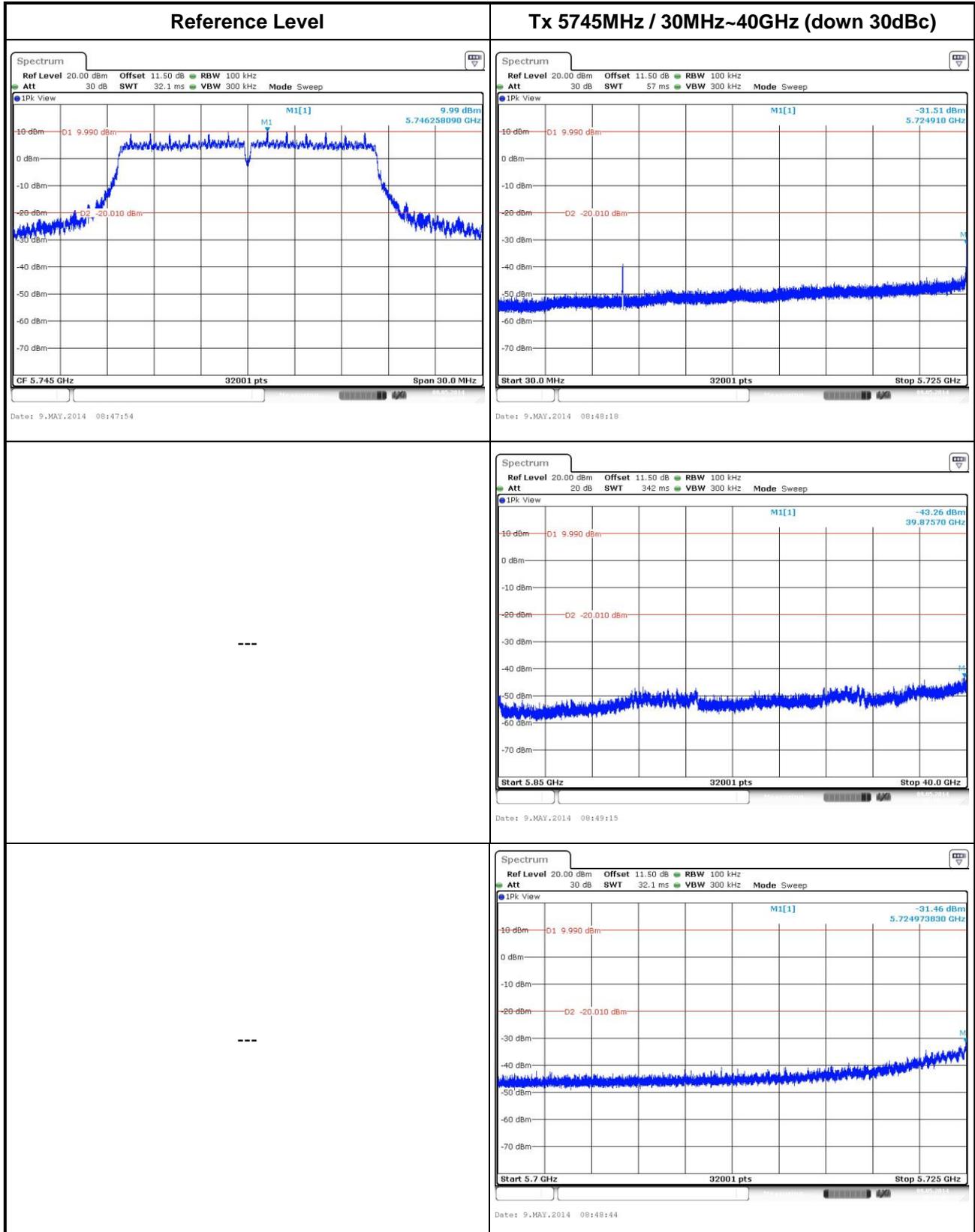
1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

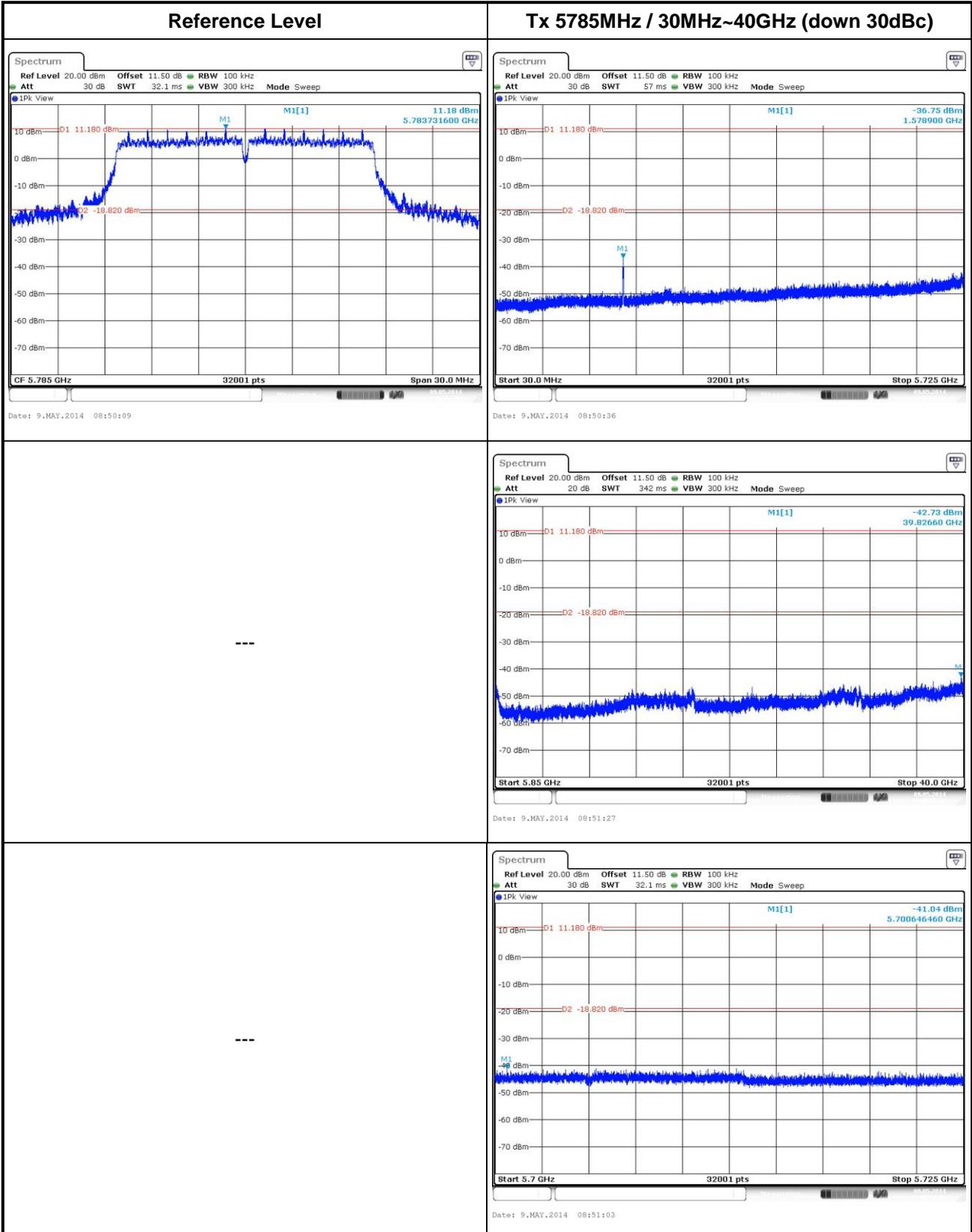
### 3.6.3 Test Setup

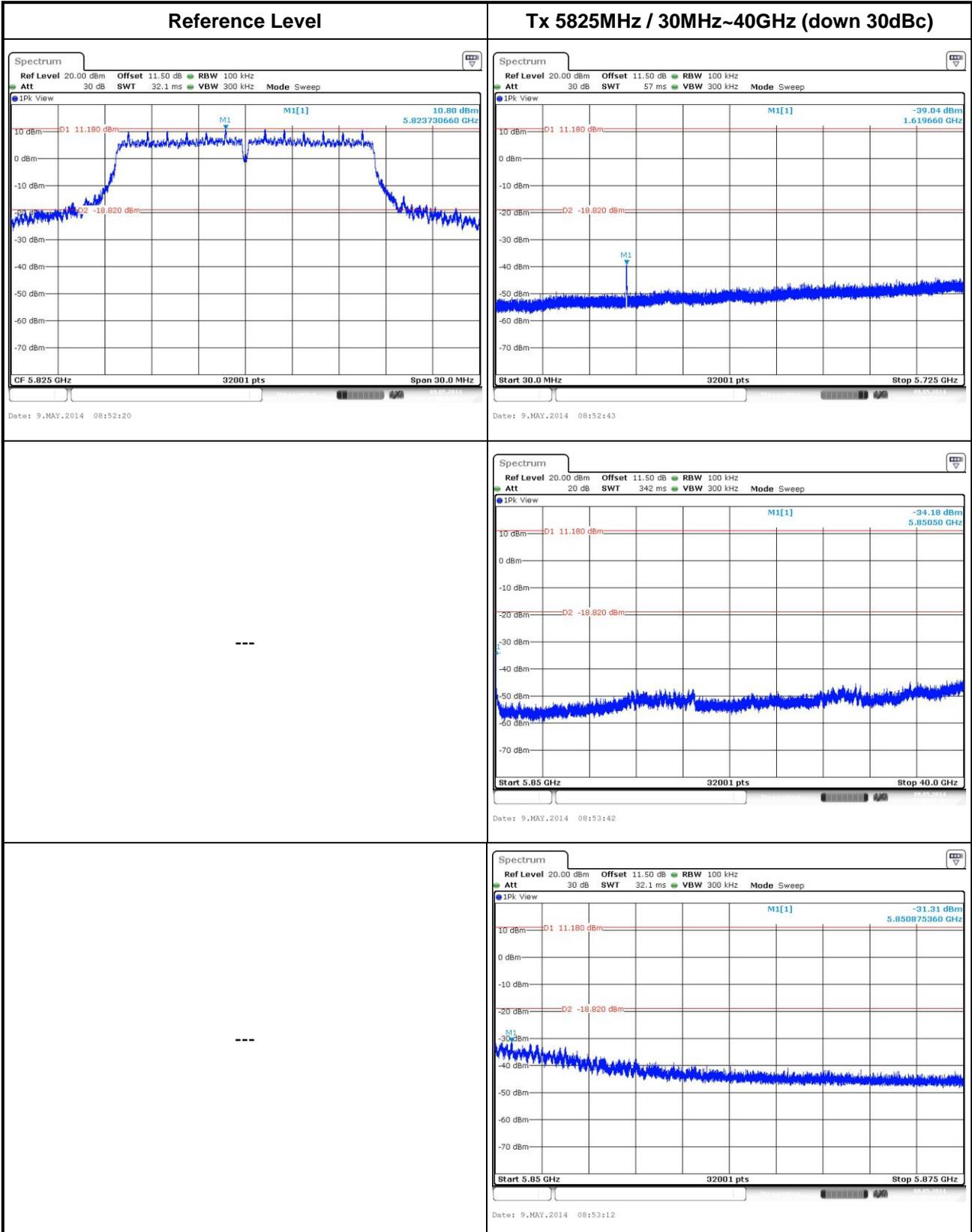


### 3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

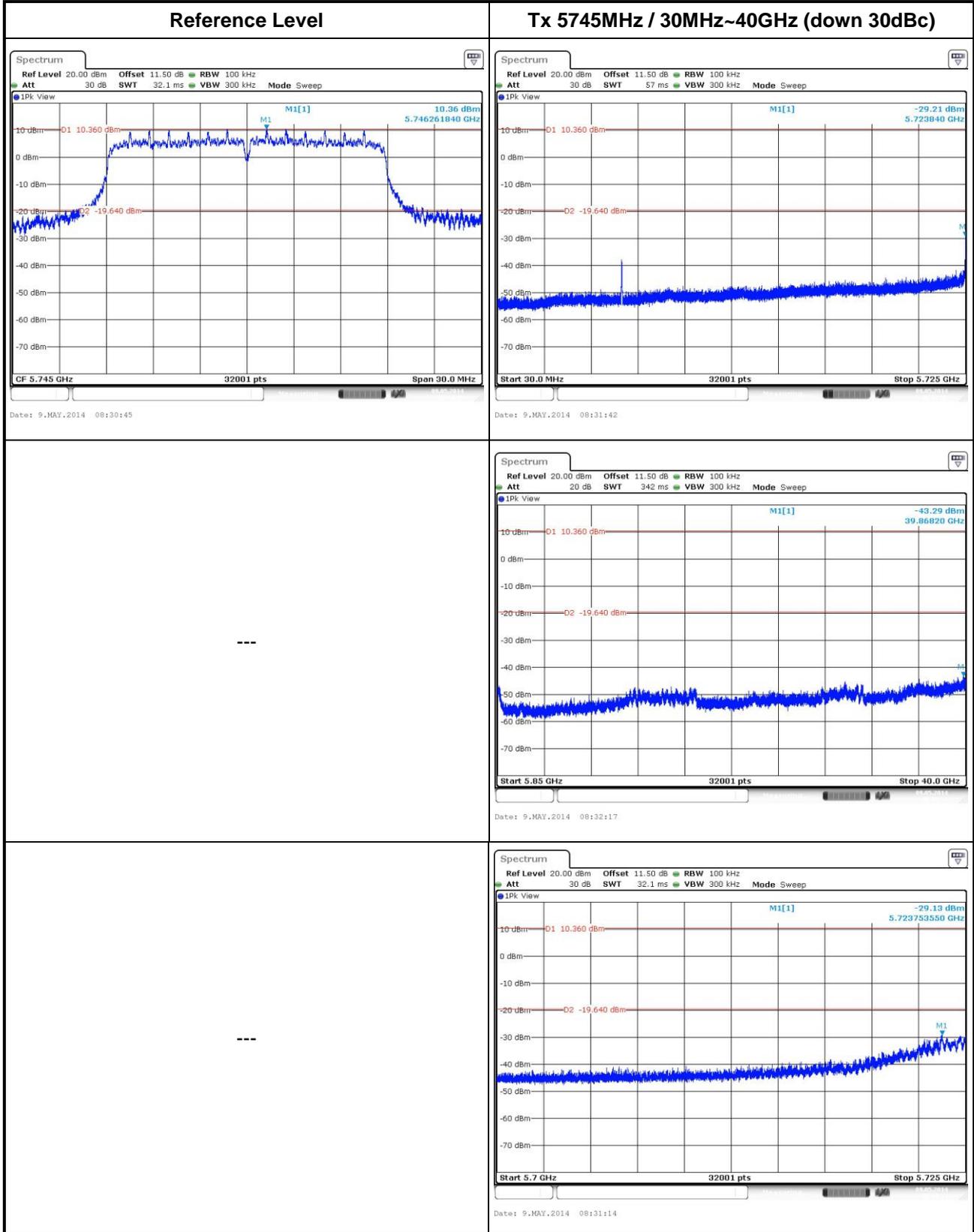
802.11a

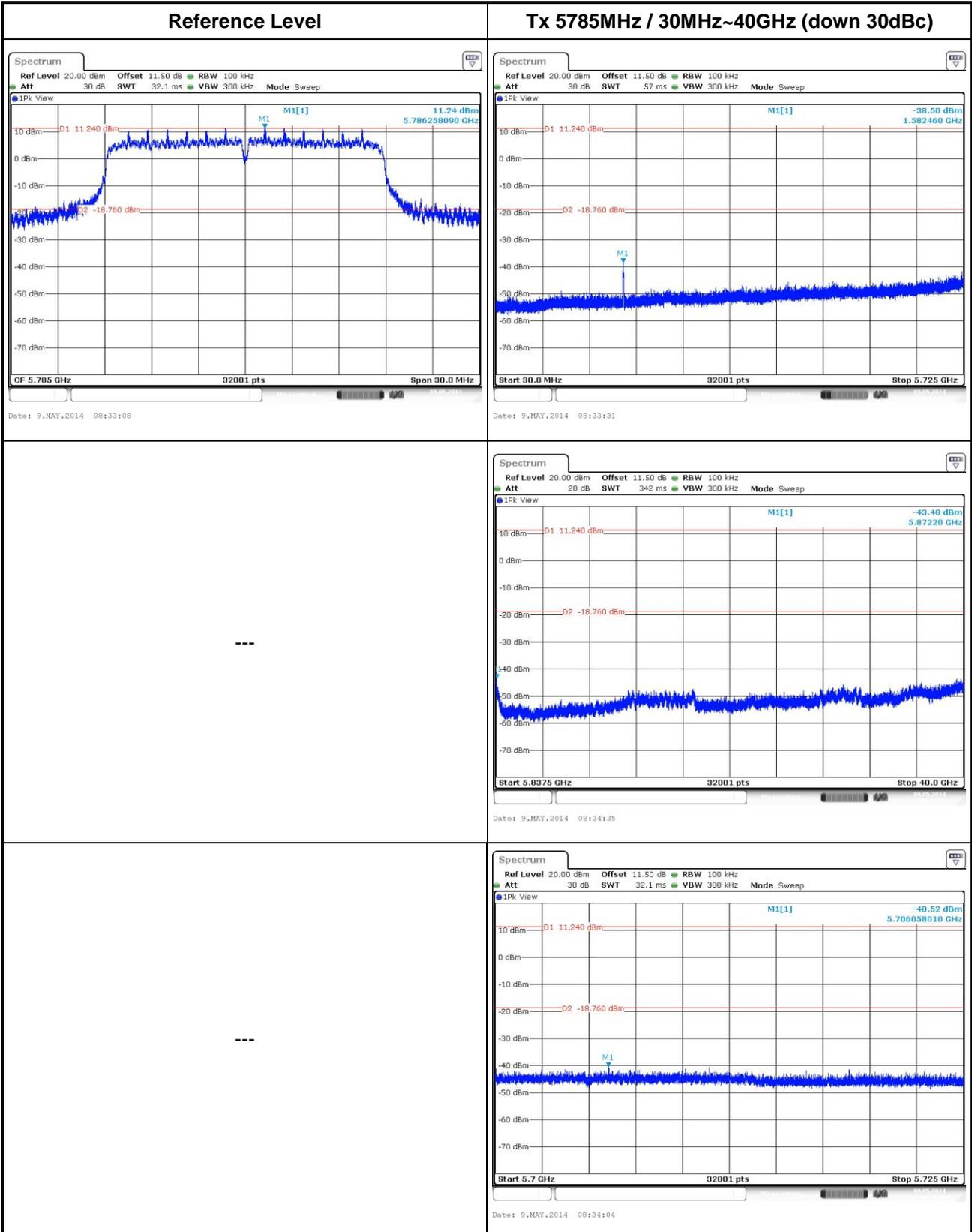


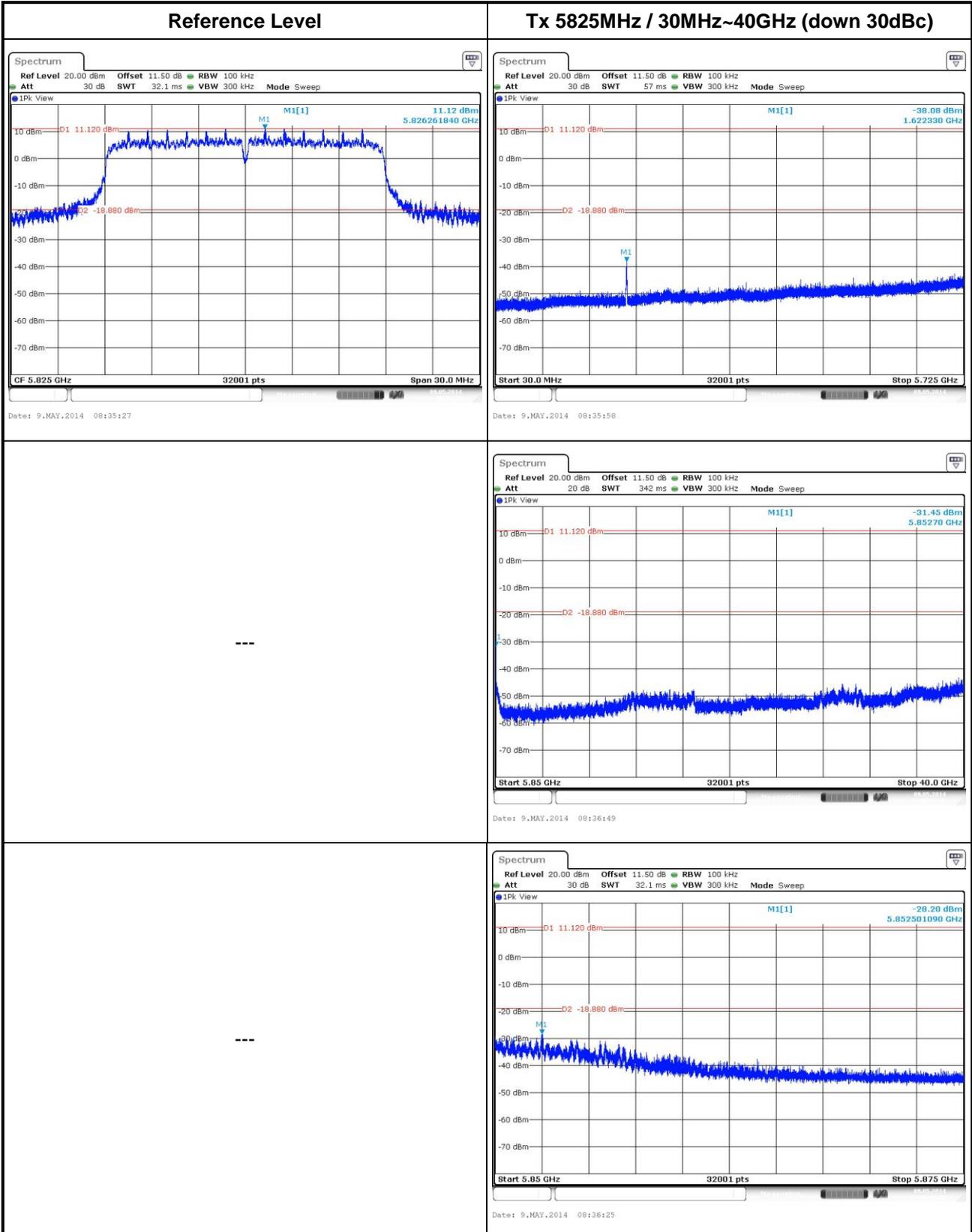




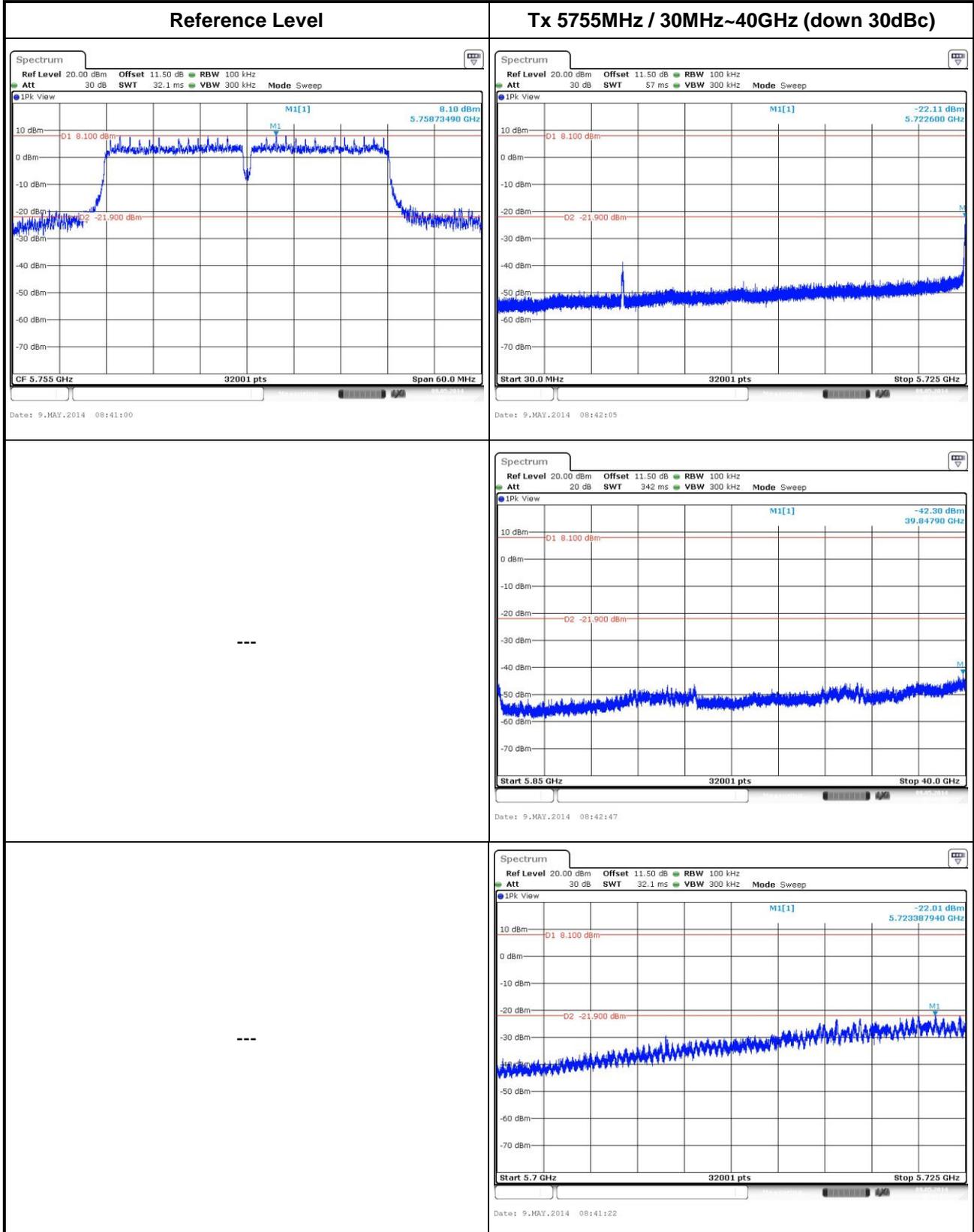
802.11n VHT20

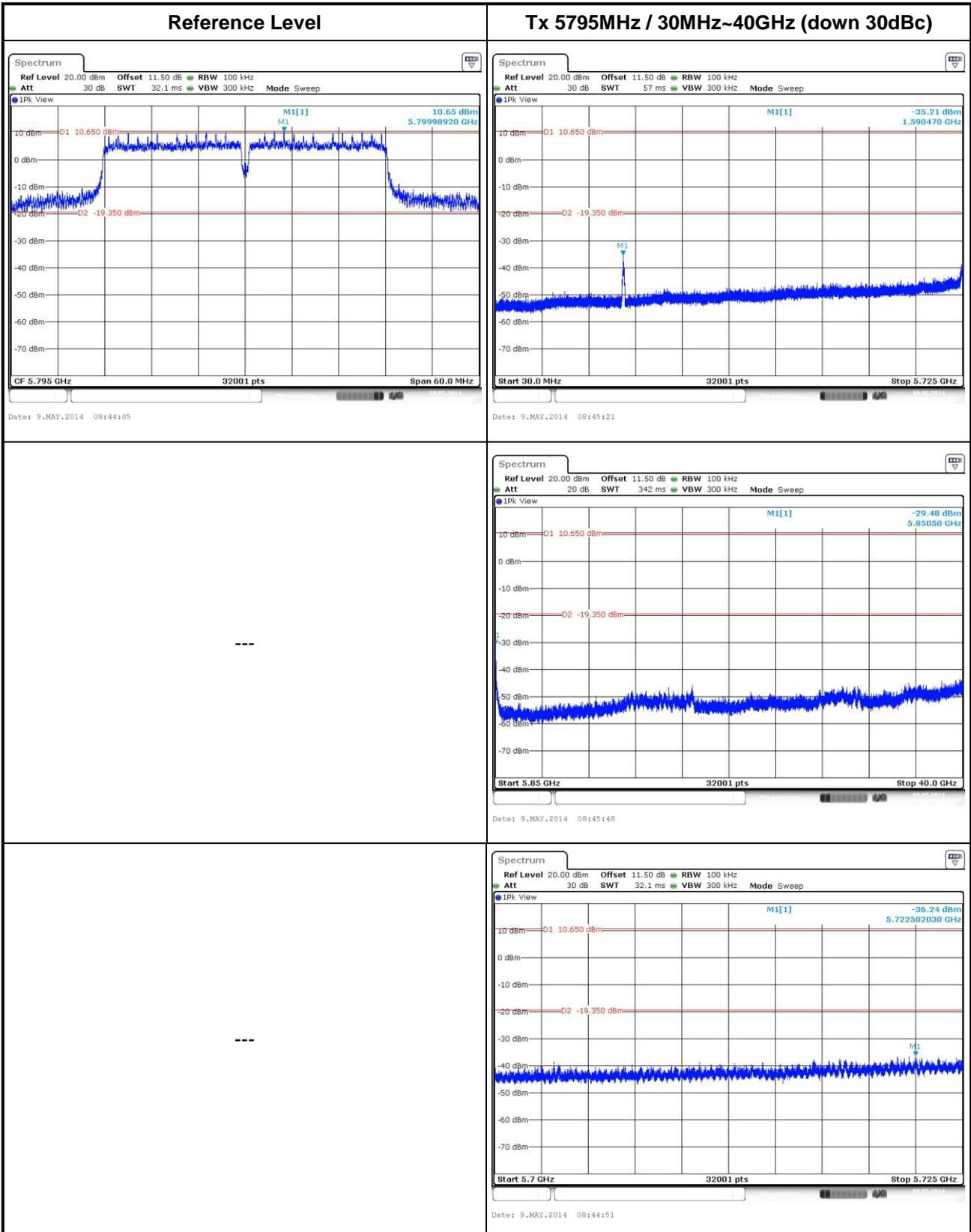




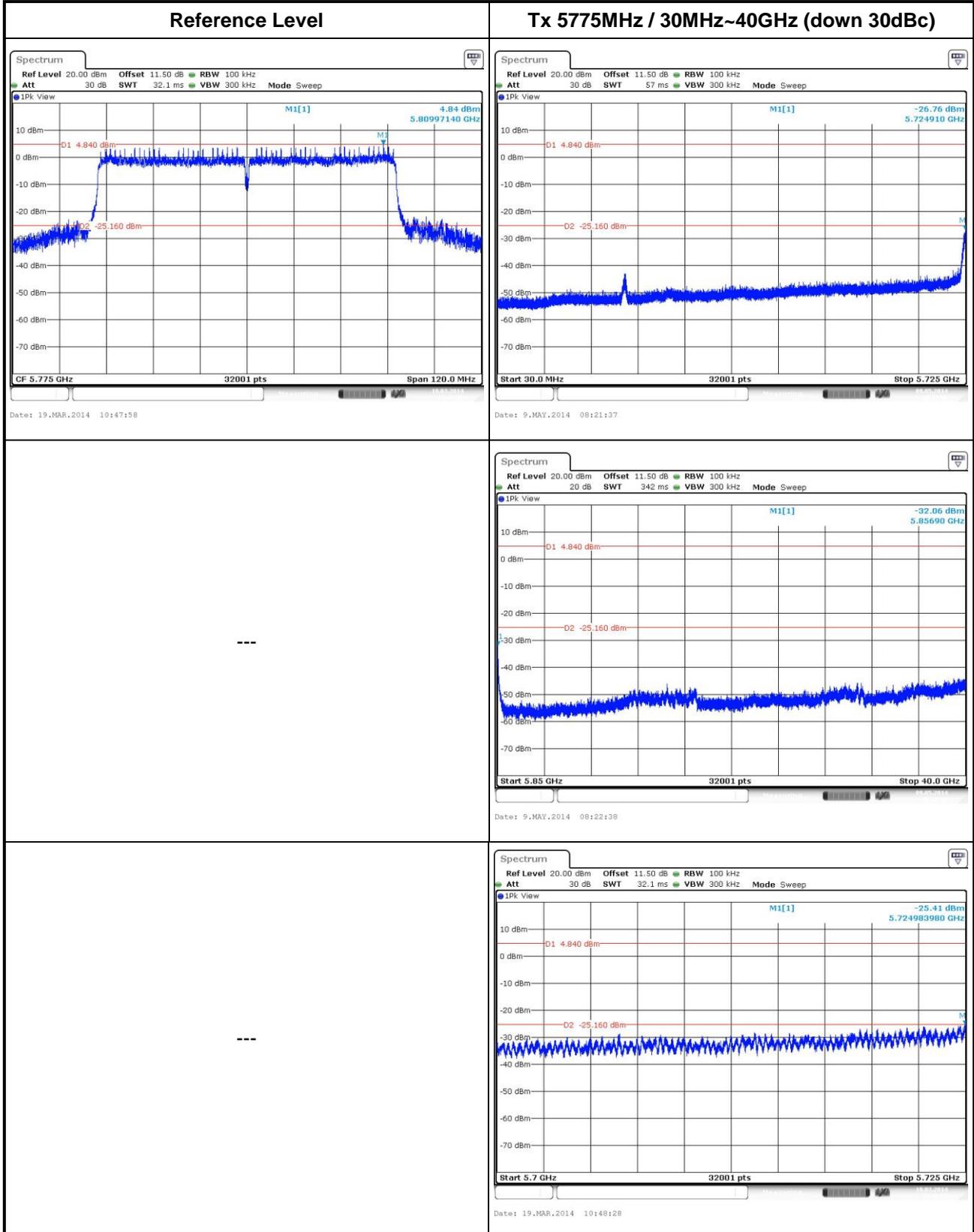


802.11n VHT40





802.11n VHT80



## 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**

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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.

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

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==END==