

FCC Test Report

Product Name : UHD651-L
Trade Name : Vestel
Model No. : UHD651-L
FCC ID. : XU6-UHD651-L

Applicant : VESTEL TRADE CO.

Address : Organize Sanayi Bölgesi (45030) Manisa/Türkiye

Date of Receipt : Feb. 18, 2017
Issued Date : Apr. 17, 2017
Report No. : 1720411R-RFUSP71V00
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Apr. 17, 2017

Report No. : 1720411R-RFUSP71V00

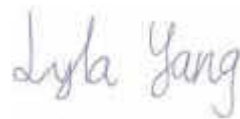


Product Name : UHD651-L
Applicant : VESTEL TRADE CO.
Address : Organize Sanayi Bölgesi (45030) Manisa/Türkiye
Manufacturer : VESTEL TRADE CO.
Model No. : UHD651-L
FCC ID. : XU6-UHD651-L
EUT Voltage : AC 100-240V, 50-60Hz
Testing Voltage : AC 120V/ 60Hz
Trade Name : Vestel
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2015
ANSI C63.10: 2013
Test Lab : Hsin Chu Laboratory
Test Result : Complied

The test results relate only to the samples tested.

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Documented By :



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Tested By :



(Carter Hsu / Senior Engineer)

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Revision History

Report No.	Version	Description	Issued Date
1720411R-RFUSP71V00	V1.0	Initial issue of report	Apr. 17, 2017

Laboratory Information

We, DEKRA Testing and Certification Co., Ltd, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 3024
USA	:	FCC, Registration Number: 834100
Canada	:	IC, Submission No: 181665
	:	IC Registration Number: 22397-1 / 22397-2 / 22397-3

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

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1. General Information

1.1. EUT Description

Product Name	UHD651-L	
Trade Name	Vestel	
Model No.	UHD651-L	
Frequency Range/ Channel Number	IEEE 802.11b/g	2412~2462MHz / 11 Channels
	IEEE 802.11n (20MHz)	
Type of Modulation	IEEE 802.11n (40MHz)	2422~2452MHz / 7 Channels
	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n

Antenna Information	
Antenna Type	PIFA Antenna
Antenna Gain	Ant 0: 3.75 dBi
	Ant 1: 4.50 dBi

IEEE 802.11n

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. This device is a UHD651-L including 2.4GHz b/g/n (2x2), BT2.0, BT4.0 and 5GHz a/n (2x2) transmitting and receiving function.
2. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1720411R-RFUSP01V00.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Tx_SISO Mode Mode 2: Tx_MIMO Mode
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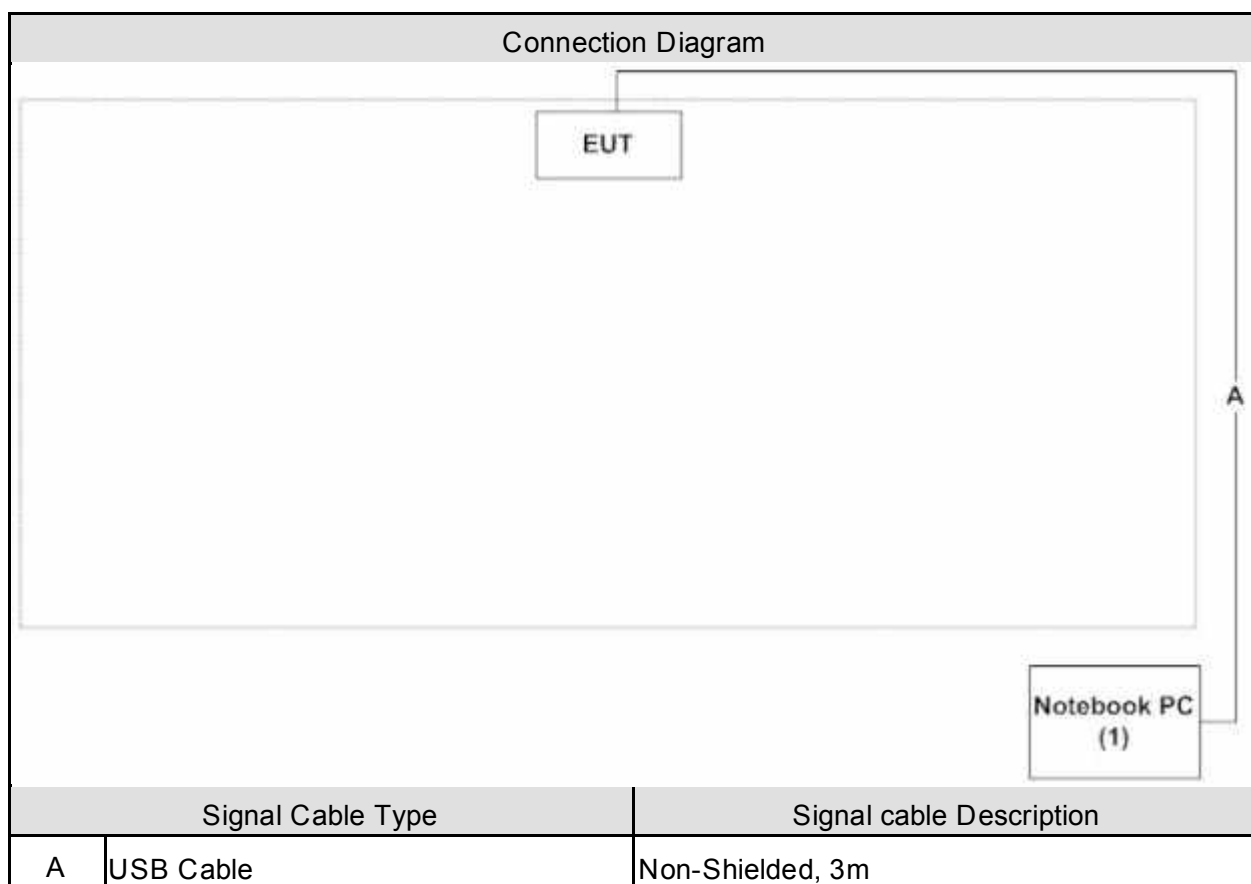
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
Peak Power Output	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
RF antenna conducted test	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Radiated Emission Band Edge	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
DTS Bandwidth	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Occupied Bandwidth	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Power Density	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Notebook PC	ASUS	X522EP	E5N0CV043264197	DoC	Non-Shielded, 1.8m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the test program "MTool-2.0.2.1.exe".
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20 °C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25 °C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25 °C
Humidity (%RH)		25 - 75	65%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25 °C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25 °C
Humidity (%RH)		25 - 75	48%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 DTS Bandwidth	15 - 35	25 °C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25 °C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25 °C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

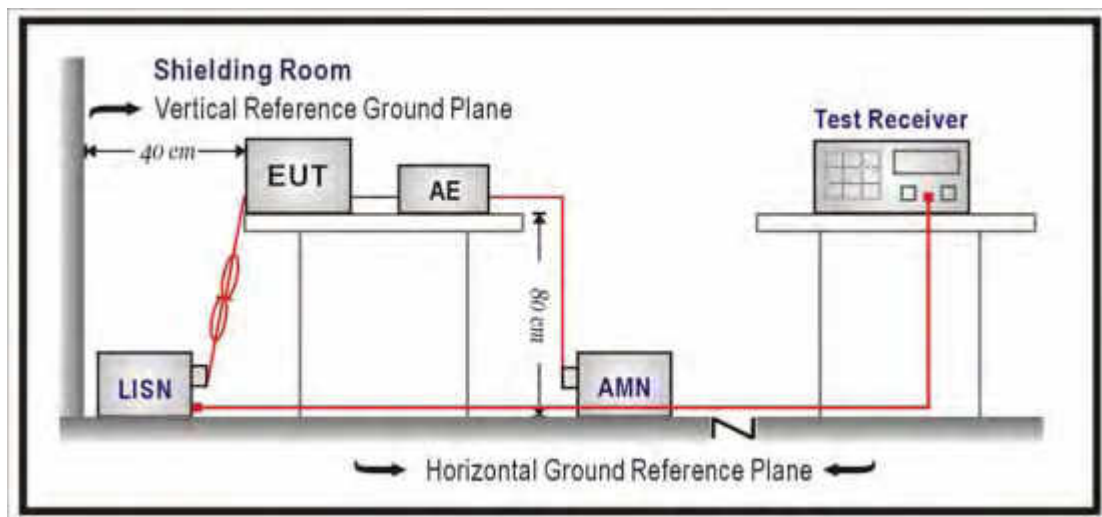
The following test equipments are used during the test:

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/02/05
LISN	R&S	ENV216	100092	2017/08/16
Test Receiver	R&S	ESCS 30	836858/022	2018/01/14

Note: All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

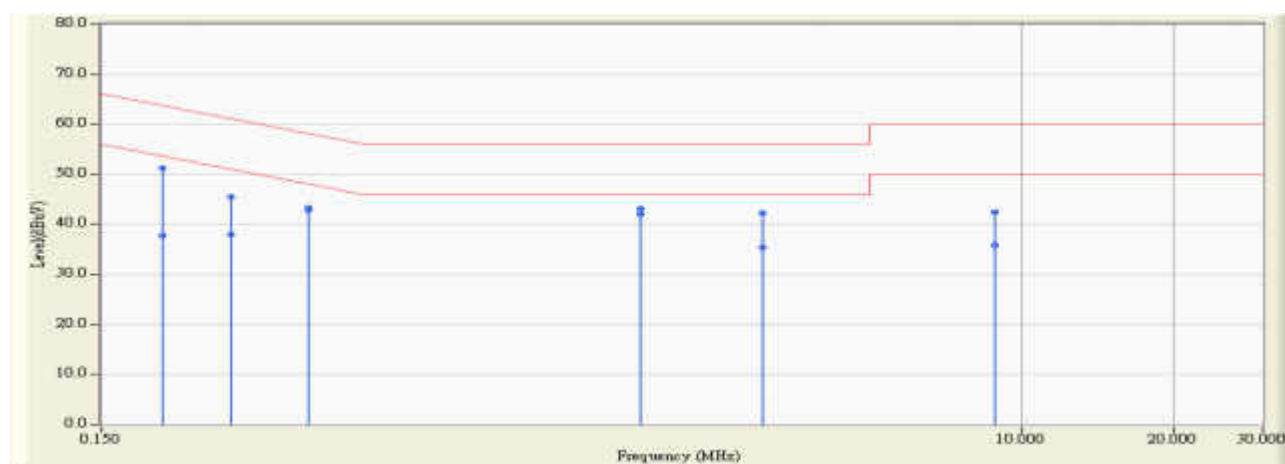
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2-H	Time : 2017/04/11
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line1	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(40M)_2437MHz

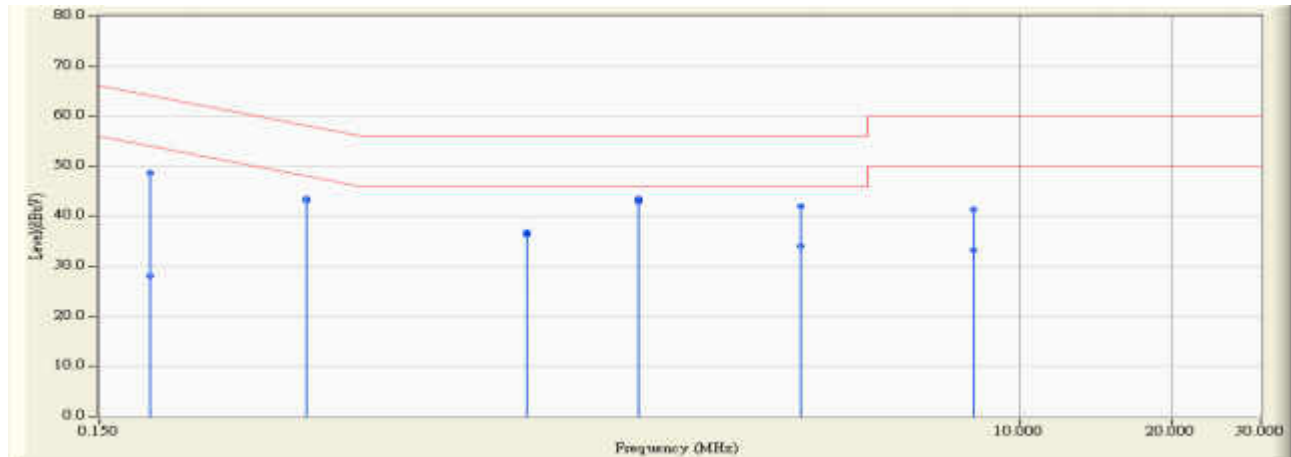


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.199	9.750	41.440	51.190	-12.479	63.670	QUASIPeAK
2		0.199	9.750	28.100	37.850	-15.819	53.670	AVERAGE
3		0.271	9.743	35.720	45.463	-15.621	61.084	QUASIPeAK
4		0.271	9.743	28.230	37.973	-13.111	51.084	AVERAGE
5		0.384	9.732	33.620	43.352	-14.833	58.184	QUASIPeAK
6		0.384	9.732	33.220	42.952	-5.233	48.184	AVERAGE
7		1.755	9.850	33.320	43.170	-12.830	56.000	QUASIPeAK
8	*	1.755	9.850	32.280	42.130	-3.870	46.000	AVERAGE
9		3.060	9.892	32.400	42.292	-13.708	56.000	QUASIPeAK
10		3.060	9.892	25.400	35.292	-10.708	46.000	AVERAGE
11		8.849	10.082	32.380	42.462	-17.538	60.000	QUASIPeAK
12		8.849	10.082	25.810	35.892	-14.108	50.000	AVERAGE

Note:

1. All Reading Levels are Q uasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR2-H	Time : 2017/04/11
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-H_LISN(16A)-6_0712 - Line2	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(40M)_2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	9.751	39.020	48.771	-15.307	64.078	QUASIPeAK
2		0.189	9.751	18.260	28.011	-26.067	54.078	AVERAGE
3		0.384	9.750	33.700	43.450	-14.734	58.184	QUASIPeAK
4		0.384	9.750	33.370	43.120	-5.064	48.184	AVERAGE
5		1.052	9.822	27.140	36.962	-19.088	56.000	QUASIPeAK
6		1.052	9.822	26.530	36.352	-9.648	46.000	AVERAGE
7		1.755	9.843	33.730	43.573	-12.427	56.000	QUASIPeAK
8	*	1.755	9.843	32.950	42.793	-3.207	46.000	AVERAGE
9		3.685	9.842	32.120	41.962	-14.088	56.000	QUASIPeAK
10		3.685	9.842	24.220	34.062	-11.938	46.000	AVERAGE
11		8.084	10.038	31.450	41.488	-18.512	60.000	QUASIPeAK
12		8.084	10.038	23.210	33.248	-16.752	50.000	AVERAGE

Note:

1. All Reading Levels are Q uasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

3.1. Test Equipment

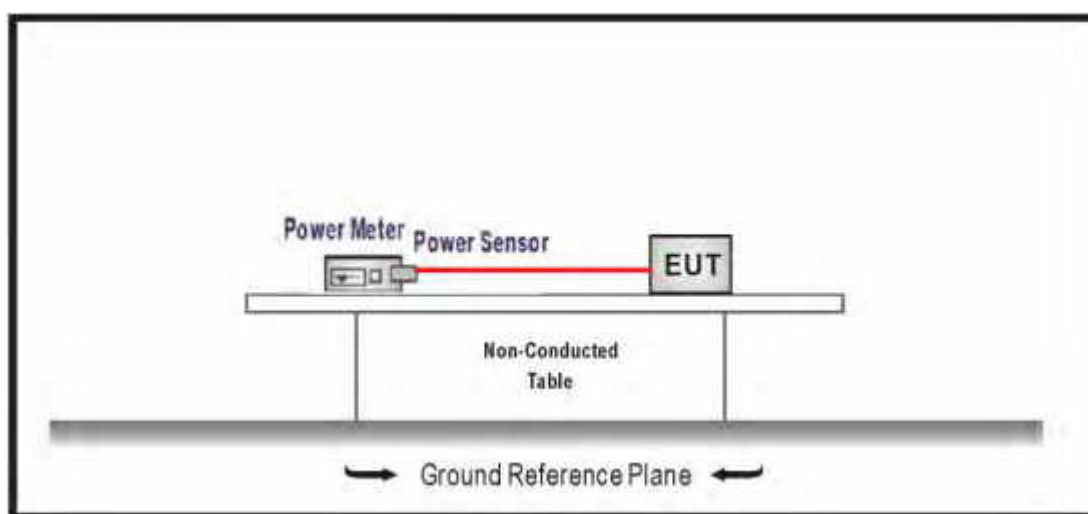
The following test equipments are used during the test:

Peak Power Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/01/19
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/01/19

Note: All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 v03r05 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	16.970	< 30
6	2437	16.830	≤ 30
11	2462	16.370	< 30

The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	16.970	--	--	--	< 30
6	2437	16.830	16.800	16.780	16.720	≤ 30
11	2462	16.370	--	--	--	< 30

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	17.140	≤ 30
6	2437	16.960	≤ 30
11	2462	16.750	< 30

The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	17.140	--	--	--	≤ 30
6	2437	16.960	16.930	16.880	16.860	≤ 30
11	2462	16.750	--	--	--	< 30

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2016/12/21	Test Site	SR10-H

IEEE 802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.690	≤ 30
6	2437	24.380	< 30
11	2462	22.870	≤ 30

The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	24.690	--	--	--	--	--	--	≤ 30
6	2437	24.380	24.320	24.280	24.230	24.200	23.990	23.910	< 30
11	2462	22.870	--	--	--	--	--	--	≤ 30

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	24.190	< 30
6	2437	24.630	≤ 30
11	2462	24.090	< 30

The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	24.190	--	--	--	--	--	--	< 30
6	2437	24.630	24.600	24.550	24.510	24.210	24.110	24.010	≤ 30
11	2462	24.090	--	--	--	--	--	--	< 30

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n20 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.200	≤ 28.54
6	2437	20.310	< 28.54
11	2462	19.840	≤ 28.54

The worst emission of data rate is MCS8.

Channel No	Frequency (MHz)	MCS Index								Required Limit
		8	9	10	11	12	13	14	15	
1	2412	21.200	--	--	--	--	--	--	--	< 28.54
6	2437	20.310	20.270	20.220	20.140	20.100	20.040	19.910	19.780	≤ 28.54
11	2462	19.840	--	--	--	--	--	--	--	< 28.54

Direction antenna $= 4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit $= 30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n20 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	20.590	≤ 28.54
6	2437	19.730	< 28.54
11	2462	20.420	≤ 28.54

The worst emission of data rate is MCS8.

Channel No	Frequency (MHz)	MCS Index								Required Limit
		8	9	10	11	12	13	14	15	
1	2412	20.590	--	--	--	--	--	--	--	< 28.54
6	2437	19.730	19.680	19.600	19.540	19.340	19.210	19.110	19.010	≤ 28.54
11	2462	20.420	--	--	--	--	--	--	--	< 28.54

Direction antenna = $4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit = $30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n20 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	23.916	≤ 28.54
6	2437	23.040	≤ 28.54
11	2462	23.150	< 28.54

Direction antenna = $4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit = $30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n40 (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	18.420	< 28.54
6	2437	20.120	$\leq$ 28.54
9	2452	19.900	< 28.54

The worst emission of data rate is MCS8.

Channel No	Frequency (MHz)	MCS Index								Required Limit
		8	9	10	11	12	13	14	15	
3	2422	18.420	--	--	--	--	--	--	--	$\leq$ 28.54
6	2437	20.120	20.010	19.910	19.820	19.660	19.540	19.340	19.210	< 28.54
9	2452	19.900	--	--	--	--	--	--	--	$\leq$ 28.54

Direction antenna = $4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit = $30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n40 (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	17.710	≤ 28.54
6	2437	20.190	≤ 28.54
9	2452	19.660	< 28.54

The worst emission of data rate is MCS8.

Channel No	Frequency (MHz)	MCS Index								Required Limit
		8	9	10	11	12	13	14	15	
3	2422	17.710	--	--	--	--	--	--	--	< 28.54
6	2437	20.190	20.080	19.880	19.750	19.660	19.340	19.200	19.010	≤ 28.54
9	2452	19.660	--	--	--	--	--	--	--	≤ 28.54

Direction antenna = $4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit = $30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

Product	UHD651-L		
Test Item	Peak Power Output		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n40 (ANT 0+1)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	21.090	≤ 28.54
6	2437	23.165	< 28.54
9	2452	22.792	≤ 28.54

Direction antenna = $4.45 + 10\log(2) = 4.45 + 3.01 = 7.46$ dBi

Limit = $30 \text{ dBm} - (7.46 - 6) = 28.54 \text{ dBm}$

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

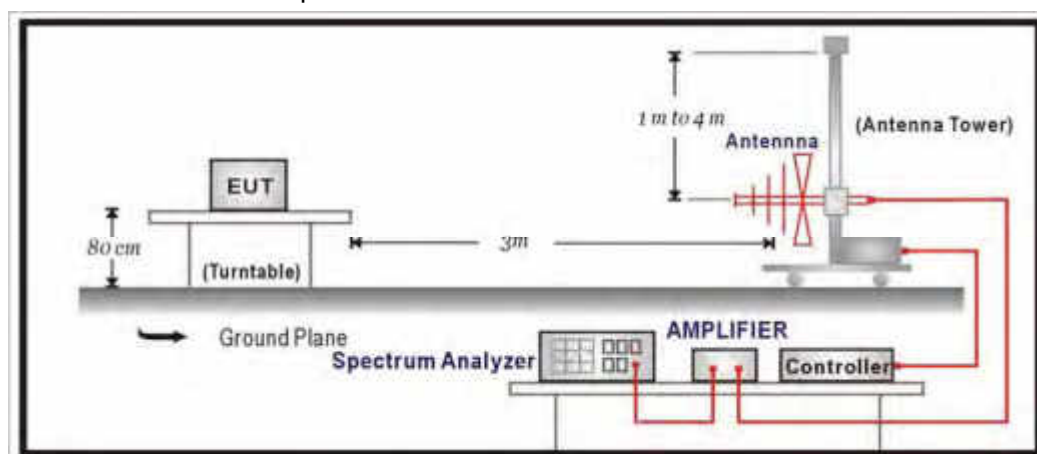
Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2891	2017/08/14
Horn Antenna	Schwarzbeck	BBHA 9120	D312	2017/10/25
Pre-Amplifier	EMCI	EMC0031835	980233	2018/02/02
Pre-Amplifier	Schwarzbeck	DBL-1840N506	013	2017/09/29
Pre-Amplifier	Miteq	JS41-001040000-58-5P	1573954	2017/10/04
Horn Antenna	Schwarzbeck	BBHA 9170	203	2017/08/28
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/22

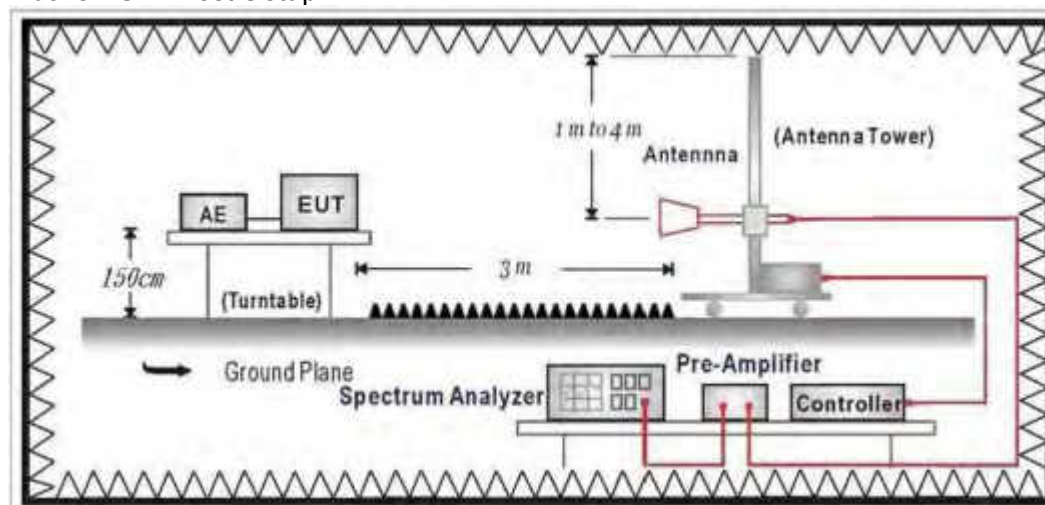
Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	dBuV/m	dBuV/m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

4.6. Uncertainty

The measurement uncertainty

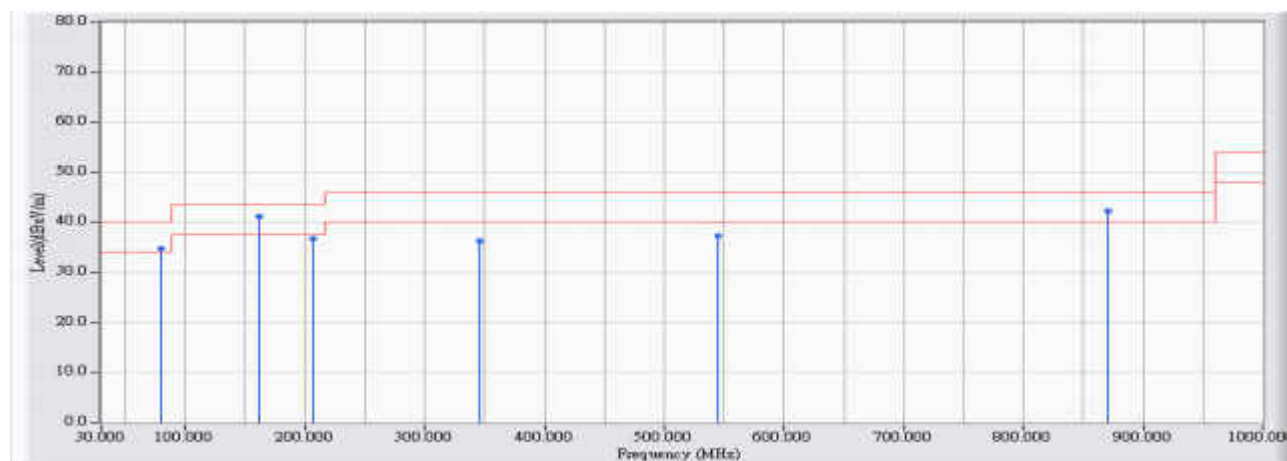
30MHz~1GHz as $\pm 3.43\text{dB}$

1GHz~26.5GHz as $\pm 3.65\text{dB}$

4.7. Test Result

30MHz-1GHz Spurious

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

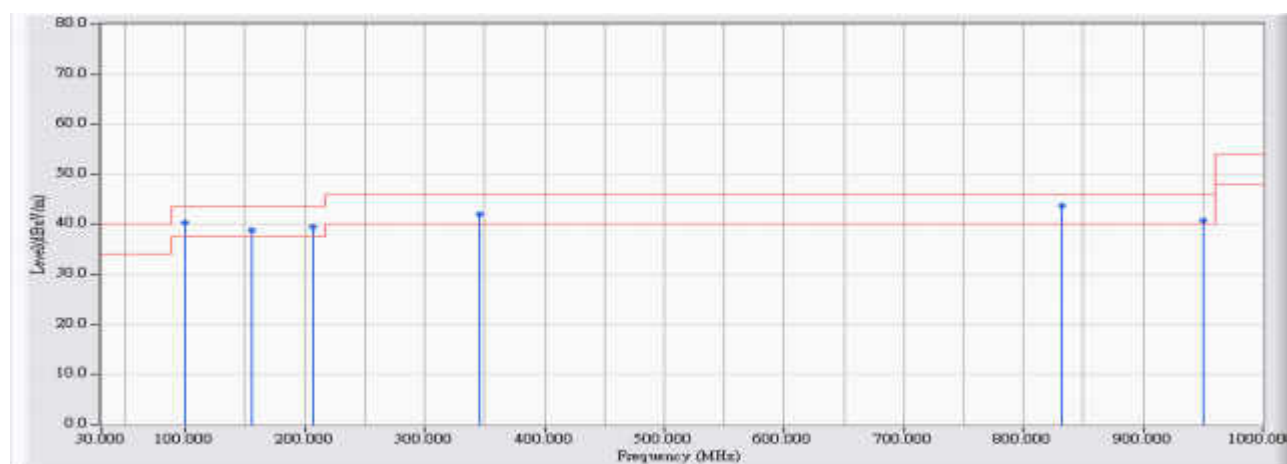


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		80.339	-26.972	61.772	34.800	-5.200	40.000	QUASIPeAK
2	*	161.657	-22.986	64.090	41.104	-2.396	43.500	QUASIPeAK
3		206.188	-22.763	59.502	36.739	-6.761	43.500	QUASIPeAK
4		345.589	-17.456	53.804	36.347	-9.653	46.000	QUASIPeAK
5		545.010	-13.303	50.548	37.246	-8.754	46.000	QUASIPeAK
6		870.279	-9.491	51.826	42.334	-3.666	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “*”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

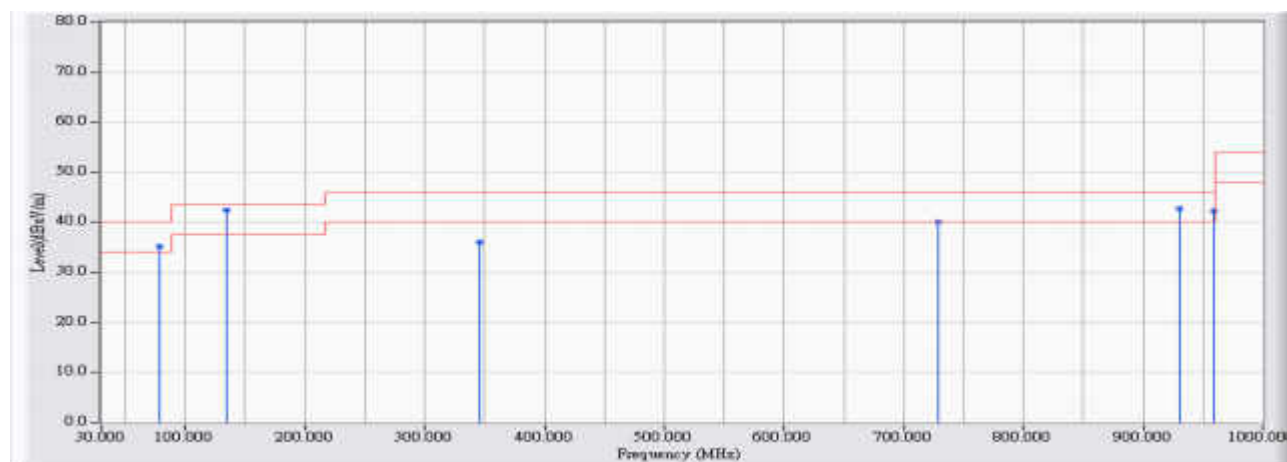


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.701	-23.442	63.796	40.354	-3.146	43.500	QUASIPeAK
2		155.848	-22.610	61.459	38.849	-4.651	43.500	QUASIPeAK
3		206.188	-22.763	62.157	39.394	-4.106	43.500	QUASIPeAK
4		345.589	-17.456	59.513	42.056	-3.944	46.000	QUASIPeAK
5	*	831.557	-9.591	53.364	43.773	-2.227	46.000	QUASIPeAK
6		949.661	-7.140	47.809	40.669	-5.331	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

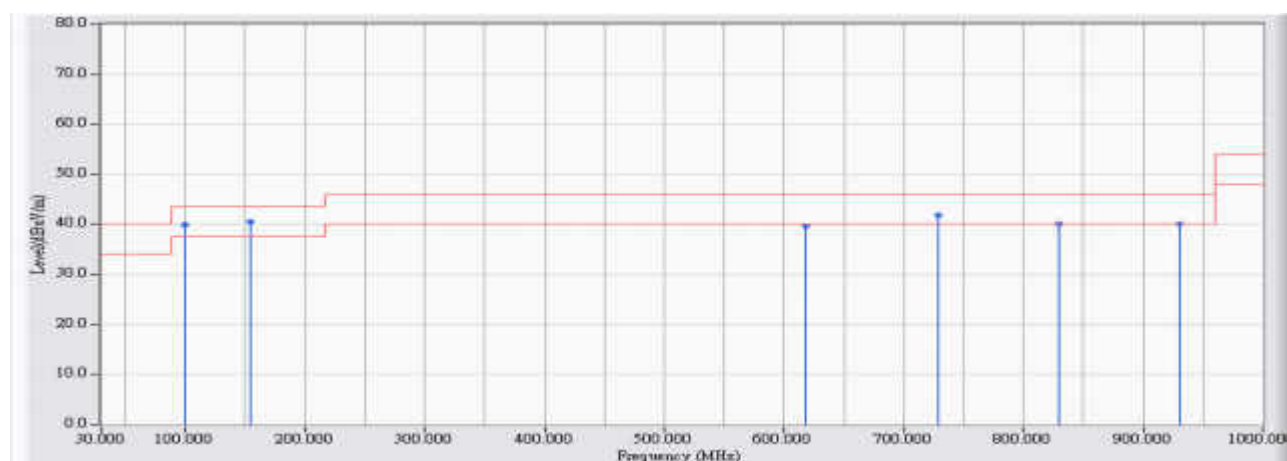


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		78.403	-27.173	62.375	35.203	-4.797	40.000	QUASIPeak
2	*	134.551	-21.411	63.813	42.402	-1.098	43.500	QUASIPeak
3		345.589	-17.456	53.580	36.123	-9.877	46.000	QUASIPeak
4		728.942	-10.605	50.703	40.098	-5.902	46.000	QUASIPeak
5		930.299	-8.213	50.843	42.629	-3.371	46.000	QUASIPeak
6		959.341	-7.584	49.778	42.194	-3.806	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

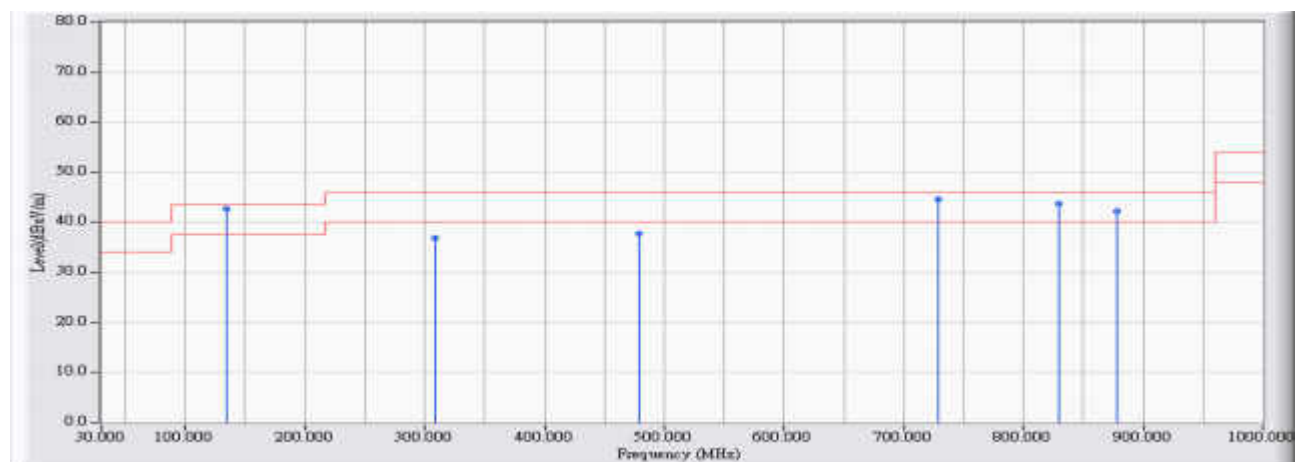


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.701	-23.442	63.303	39.861	-3.639	43.500	QUASIPeak
2	*	153.912	-22.475	63.113	40.637	-2.863	43.500	QUASIPeak
3		618.583	-11.875	51.521	39.647	-6.353	46.000	QUASIPeak
4		728.942	-10.605	52.441	41.836	-4.164	46.000	QUASIPeak
5		829.621	-9.685	49.872	40.186	-5.814	46.000	QUASIPeak
6		930.299	-8.213	48.427	40.213	-5.787	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

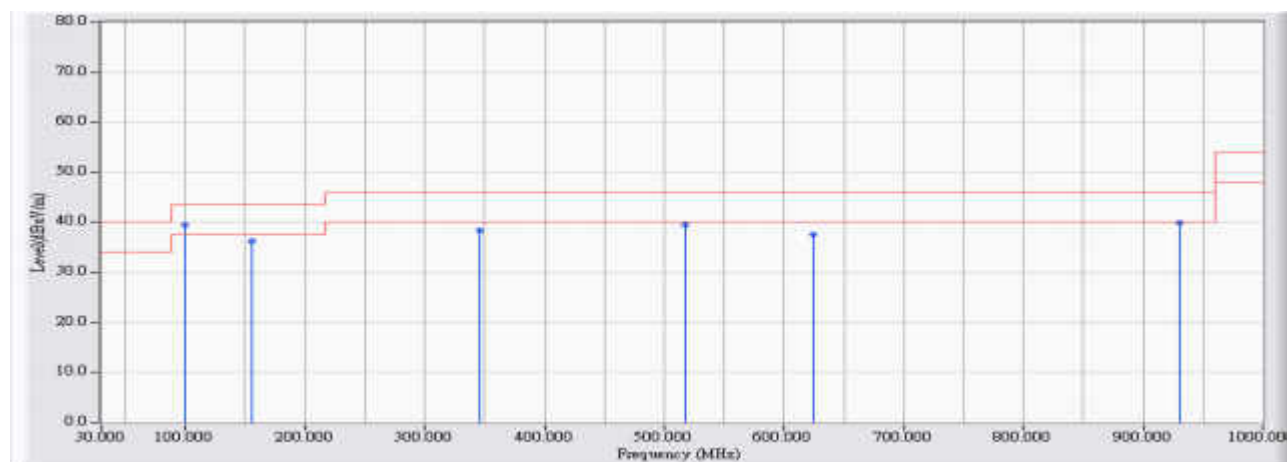


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	134.551	-21.411	64.145	42.734	-0.766	43.500	QUASIPeak
2		308.802	-19.258	56.144	36.886	-9.114	46.000	QUASIPeak
3		479.182	-14.517	52.345	37.828	-8.172	46.000	QUASIPeak
4		728.942	-10.605	55.318	44.713	-1.287	46.000	QUASIPeak
5		829.621	-9.685	53.422	43.736	-2.264	46.000	QUASIPeak
6		878.024	-8.815	50.986	42.171	-3.829	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “*”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

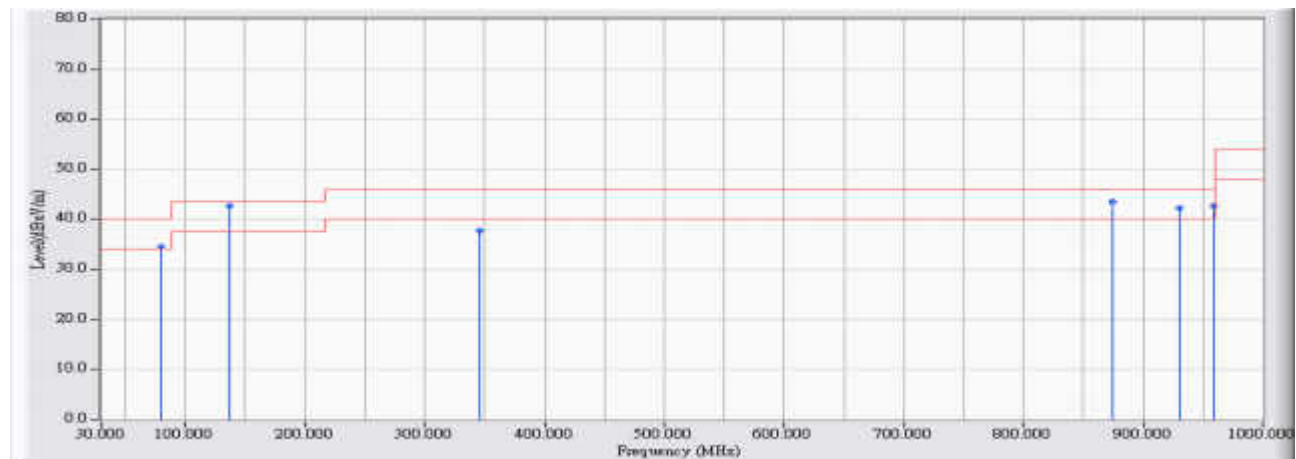


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	99.701	-23.442	62.922	39.480	-4.020	43.500	QUASIPeak
2		155.848	-22.610	58.907	36.297	-7.203	43.500	QUASIPeak
3		345.589	-17.456	55.832	38.375	-7.625	46.000	QUASIPeak
4		517.904	-13.563	52.958	39.395	-6.605	46.000	QUASIPeak
5		624.391	-11.956	49.570	37.614	-8.386	46.000	QUASIPeak
6		930.299	-8.213	48.171	39.957	-6.043	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “*”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant1

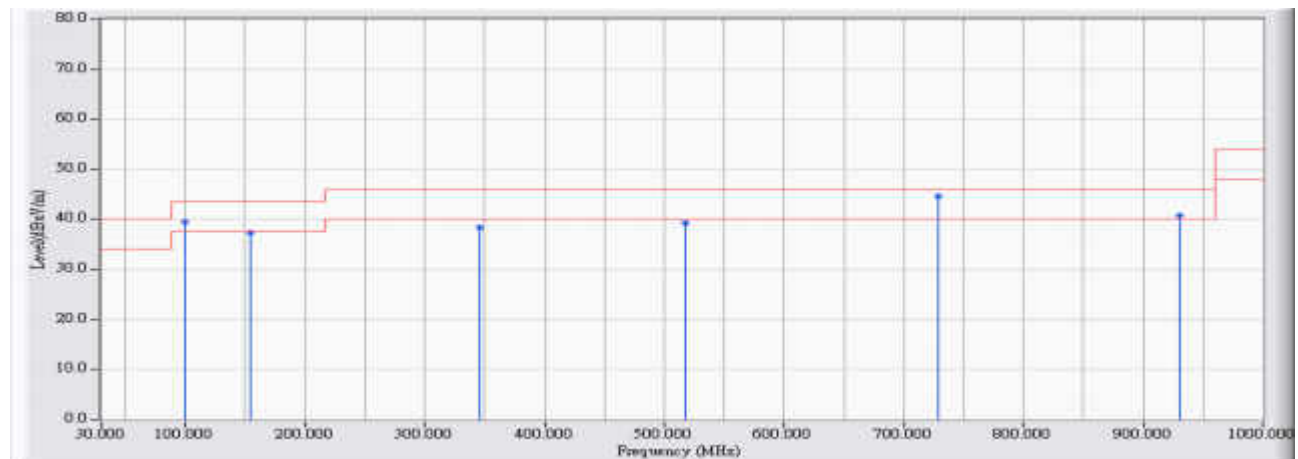


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		80.339	-26.972	61.578	34.606	-5.394	40.000	QUASIPeAK
2	*	136.487	-21.476	64.254	42.779	-0.721	43.500	QUASIPeAK
3		345.589	-17.456	55.262	37.805	-8.195	46.000	QUASIPeAK
4		874.152	-9.156	52.680	43.525	-2.475	46.000	QUASIPeAK
5		930.299	-8.213	50.535	42.321	-3.679	46.000	QUASIPeAK
6		959.341	-7.584	50.293	42.709	-3.291	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant1

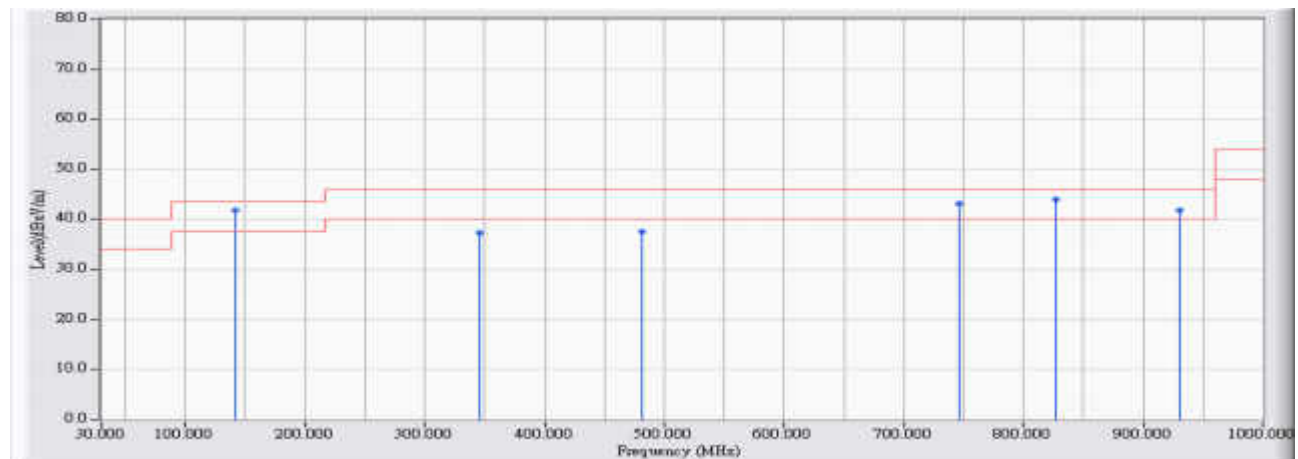


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.701	-23.442	62.842	39.400	-4.100	43.500	QUASIPeak
2		153.912	-22.475	59.707	37.231	-6.269	43.500	QUASIPeak
3		345.589	-17.456	55.884	38.427	-7.573	46.000	QUASIPeak
4		517.904	-13.563	52.752	39.189	-6.811	46.000	QUASIPeak
5	*	728.942	-10.605	55.306	44.701	-1.299	46.000	QUASIPeak
6		930.299	-8.213	48.887	40.673	-5.327	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(20M)_2437MHz

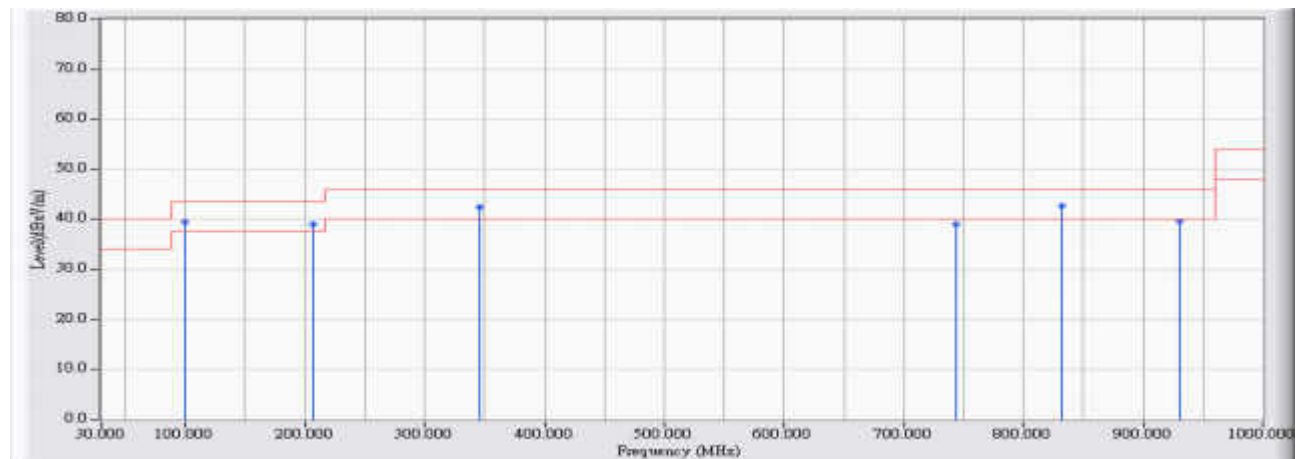


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	142.295	-21.733	63.487	41.754	-1.746	43.500	QUASIPeak
2		345.589	-17.456	54.689	37.232	-8.768	46.000	QUASIPeak
3		481.118	-14.479	51.979	37.500	-8.500	46.000	QUASIPeak
4		746.367	-11.111	54.226	43.116	-2.884	46.000	QUASIPeak
5		827.685	-9.773	53.753	43.981	-2.019	46.000	QUASIPeak
6		930.299	-8.213	50.138	41.924	-4.076	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “*”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(20M)_2437MHz

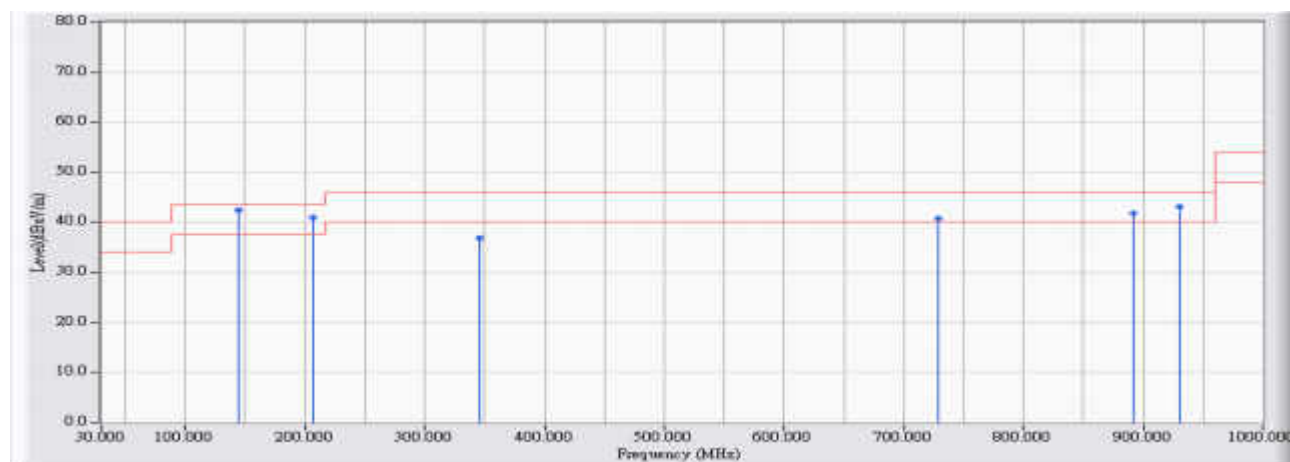


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.701	-23.442	62.877	39.435	-4.065	43.500	QUASIPeak
2		206.188	-22.763	61.728	38.965	-4.535	43.500	QUASIPeak
3		345.589	-17.456	59.952	42.495	-3.505	46.000	QUASIPeak
4		744.431	-10.966	50.038	39.072	-6.928	46.000	QUASIPeak
5	*	831.557	-9.591	52.229	42.638	-3.362	46.000	QUASIPeak
6		930.299	-8.213	47.801	39.587	-6.413	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(40M)_2437MHz

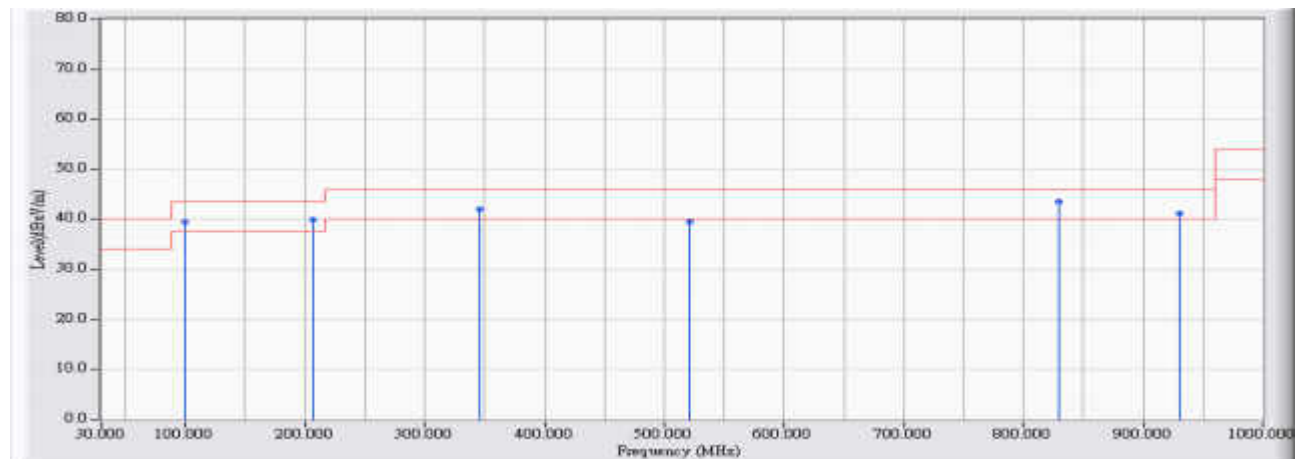


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	144.232	-21.852	64.369	42.517	-0.983	43.500	QUASIPeAK
2		206.188	-22.763	63.760	40.997	-2.503	43.500	QUASIPeAK
3		345.589	-17.456	54.306	36.849	-9.151	46.000	QUASIPeAK
4		728.942	-10.605	51.381	40.776	-5.224	46.000	QUASIPeAK
5		891.577	-8.383	50.233	41.850	-4.150	46.000	QUASIPeAK
6		930.299	-8.213	51.425	43.211	-2.789	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “*”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/03/23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode_802.11n(40M)_2437MHz



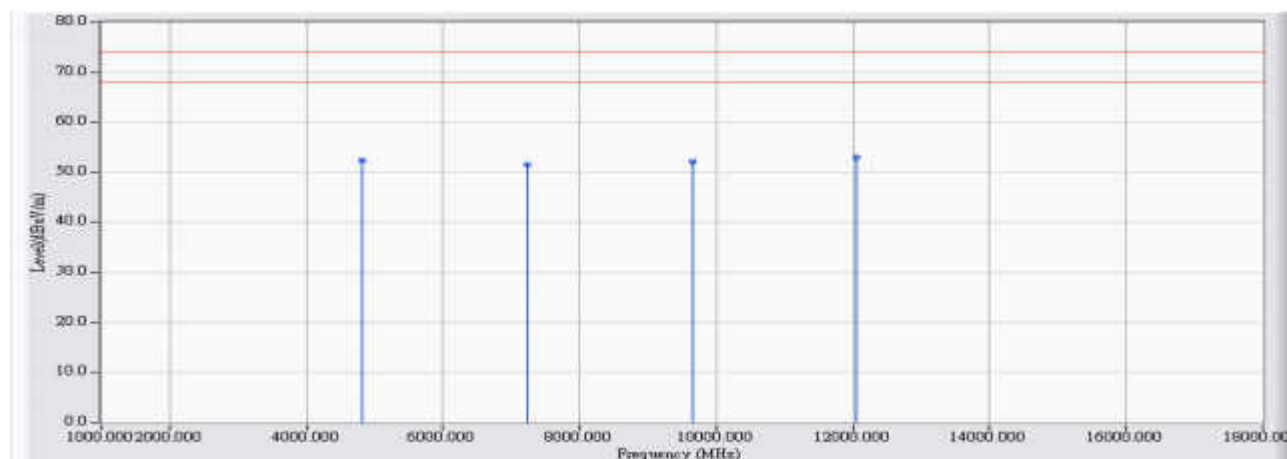
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		99.701	-23.442	62.928	39.486	-4.014	43.500	QUASIPeAK
2		206.188	-22.763	62.742	39.979	-3.521	43.500	QUASIPeAK
3		345.589	-17.456	59.462	42.005	-3.995	46.000	QUASIPeAK
4		521.776	-13.617	53.008	39.391	-6.609	46.000	QUASIPeAK
5	*	829.621	-9.685	53.139	43.453	-2.547	46.000	QUASIPeAK
6		930.299	-8.213	49.395	41.181	-4.819	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

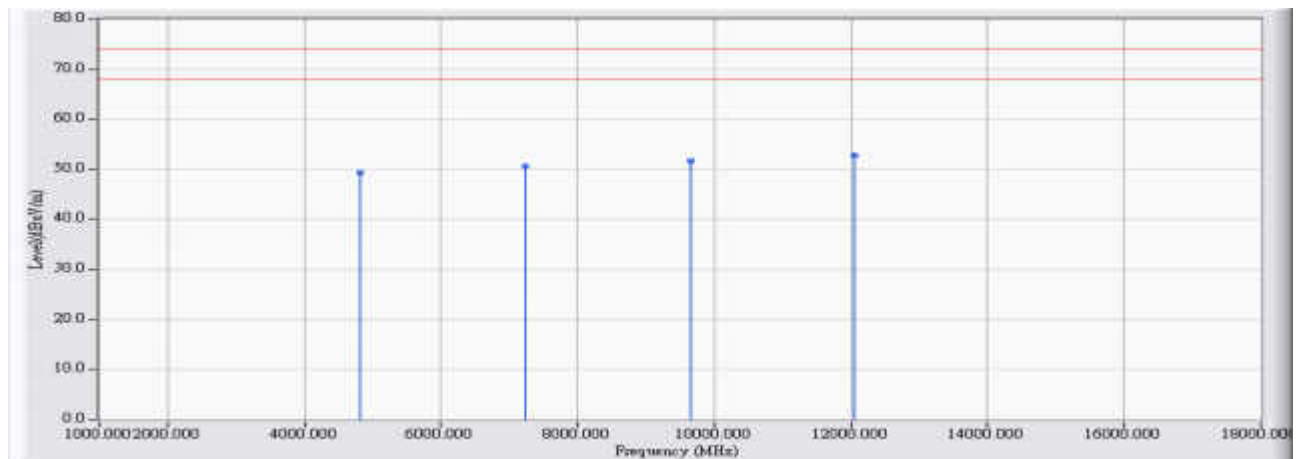


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	45.170	52.230	-21.770	74.000	PEAK
2		7236.000	15.277	36.160	51.437	-22.563	74.000	PEAK
3		9648.000	21.231	30.800	52.032	-21.968	74.000	PEAK
4	*	12060.000	25.137	27.800	52.957	-21.043	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

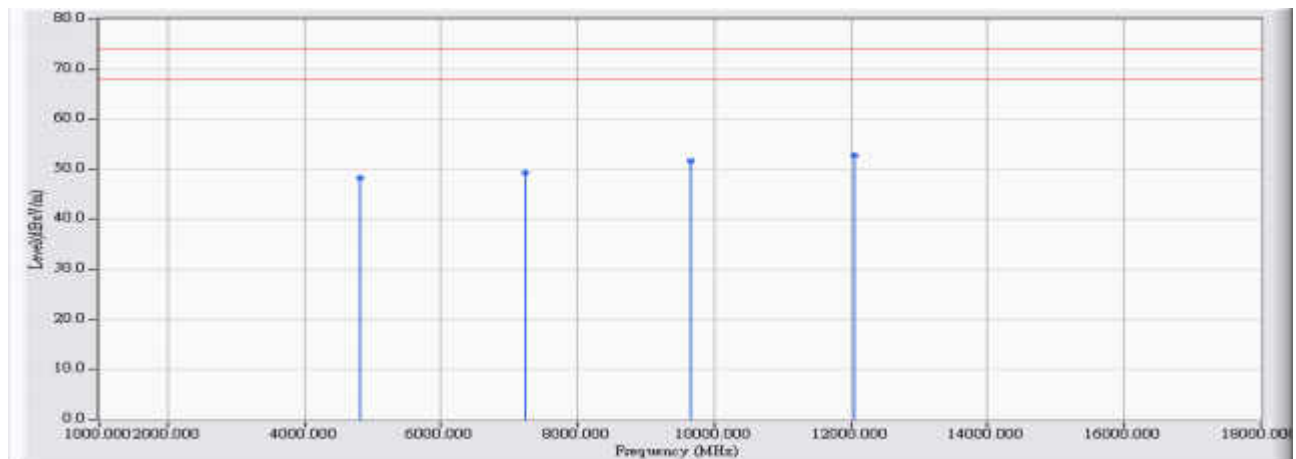


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	42.33	49.390	-24.610	74.000	PEAK
2		7236.000	15.277	35.24	50.517	-23.483	74.000	PEAK
3		9648.000	21.231	30.37	51.602	-22.398	74.000	PEAK
4	*	12060.000	25.137	27.60	52.767	-21.233	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

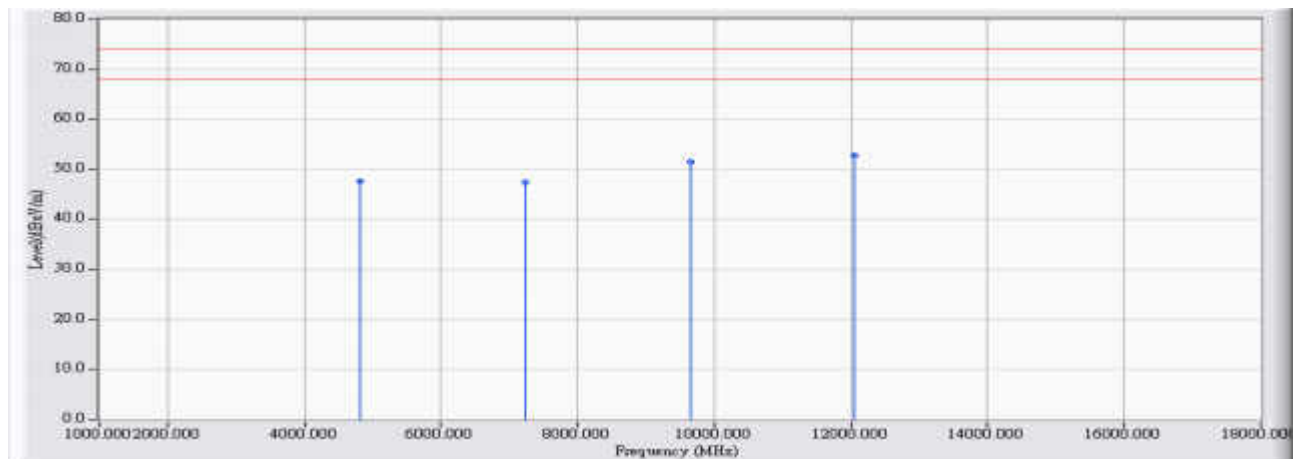


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	41.28	48.340	-25.660	74.000	PEAK
2		7236.000	15.277	34.01	49.287	-24.713	74.000	PEAK
3		9648.000	21.231	30.48	51.712	-22.288	74.000	PEAK
4	*	12060.000	25.137	27.67	52.807	-21.193	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

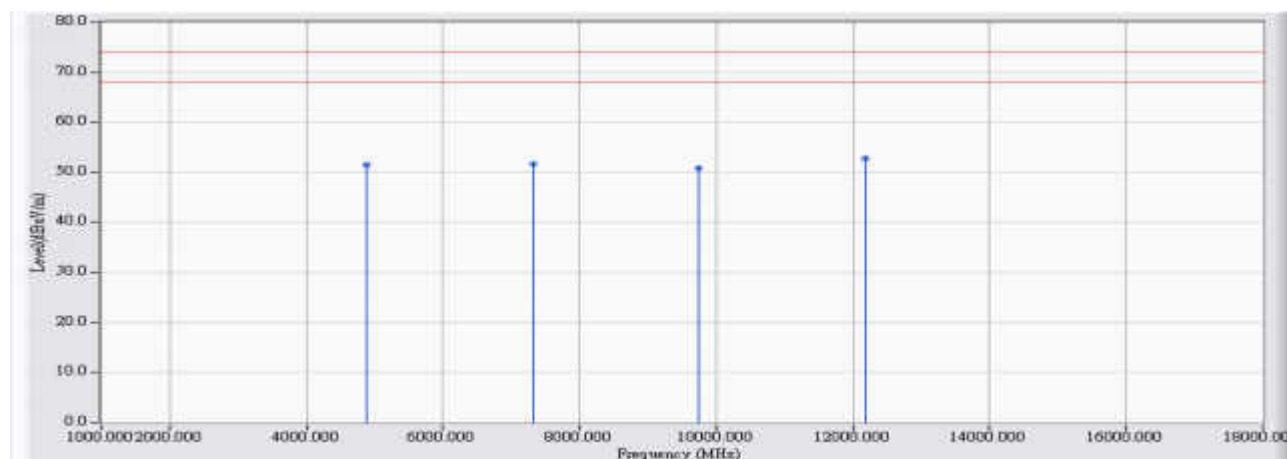


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	40.45	47.510	-26.490	74.000	PEAK
2		7236.000	15.277	32.20	47.477	-26.523	74.000	PEAK
3		9648.000	21.231	30.20	51.432	-22.568	74.000	PEAK
4	*	12060.000	25.137	27.50	52.707	-21.293	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

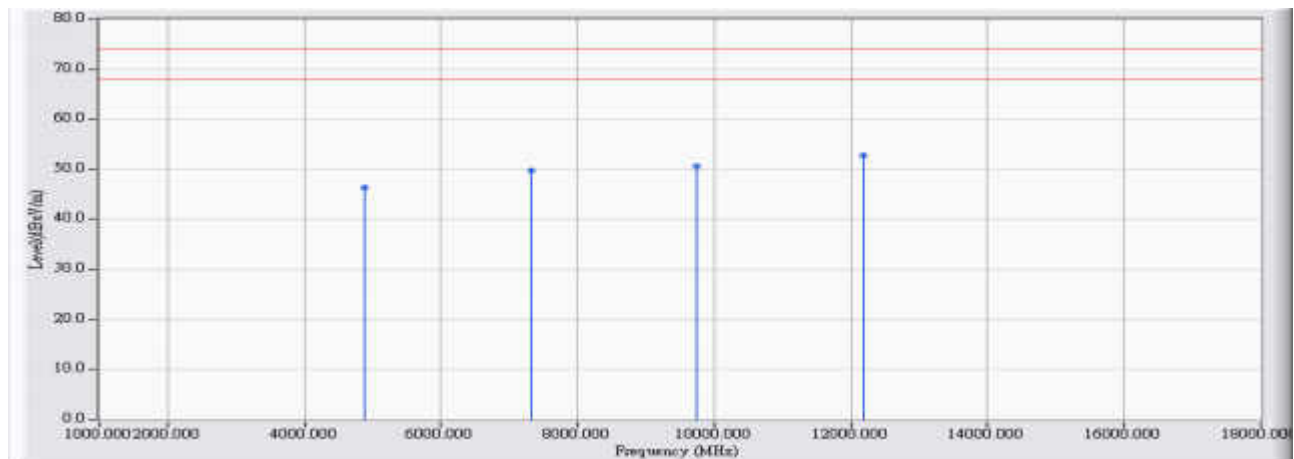


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	44.25	51.469	-22.531	74.000	PEAK
2		7311.000	15.667	35.95	51.617	-22.383	74.000	PEAK
3		9748.000	21.381	29.44	50.822	-23.178	74.000	PEAK
4	*	12185.000	24.902	27.89	52.792	-21.208	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

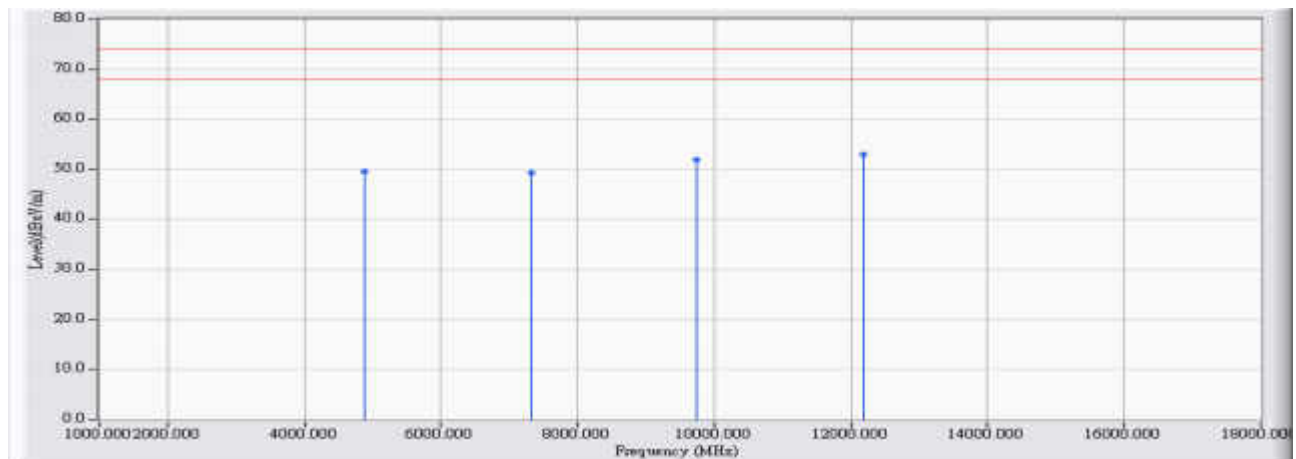


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	39.16	46.379	-27.621	74.000	PEAK
2		7311.000	15.667	34.12	49.787	-24.213	74.000	PEAK
3		9748.000	21.381	29.15	50.532	-23.468	74.000	PEAK
4	*	12185.000	24.902	27.80	52.722	-21.278	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

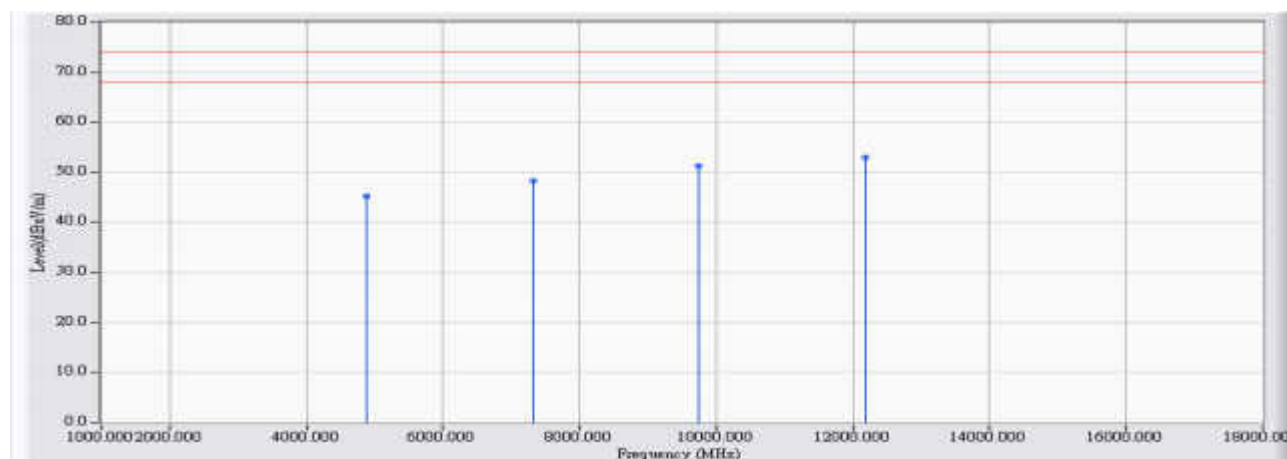


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	42.33	49.549	-24.451	74.000	PEAK
2		7311.000	15.667	33.75	49.417	-24.583	74.000	PEAK
3		9748.000	21.381	30.51	51.892	-22.108	74.000	PEAK
4	*	12185.000	24.902	28.00	52.912	-21.088	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

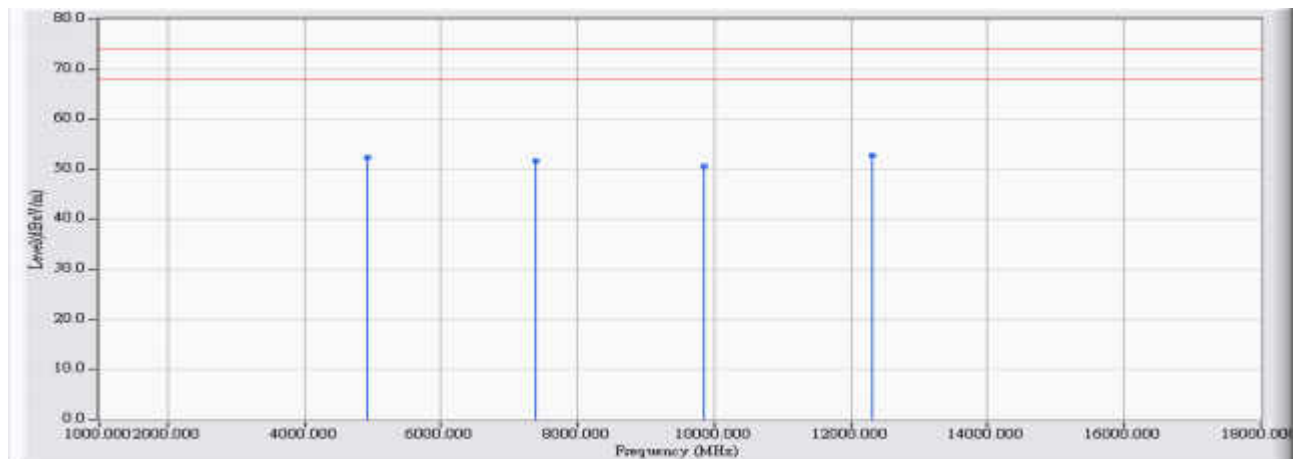


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	37.93	45.149	-28.851	74.000	PEAK
2		7311.000	15.667	32.50	48.167	-25.833	74.000	PEAK
3		9748.000	21.381	29.80	51.182	-22.818	74.000	PEAK
4	*	12185.000	24.902	28.00	52.942	-21.058	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2462MHz_Ant0

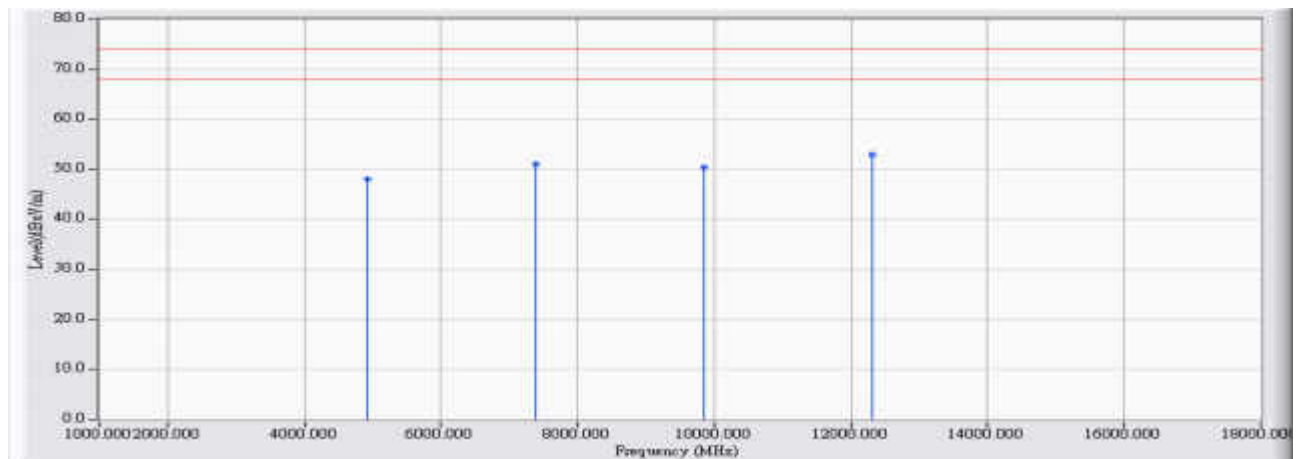


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	45.02	52.398	-21.602	74.000	PEAK
2		7386.000	16.057	35.55	51.607	-22.393	74.000	PEAK
3		9848.000	21.531	29.01	50.542	-23.458	74.000	PEAK
4	*	12310.000	24.667	28.16	52.817	-21.183	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2462MHz_Ant0

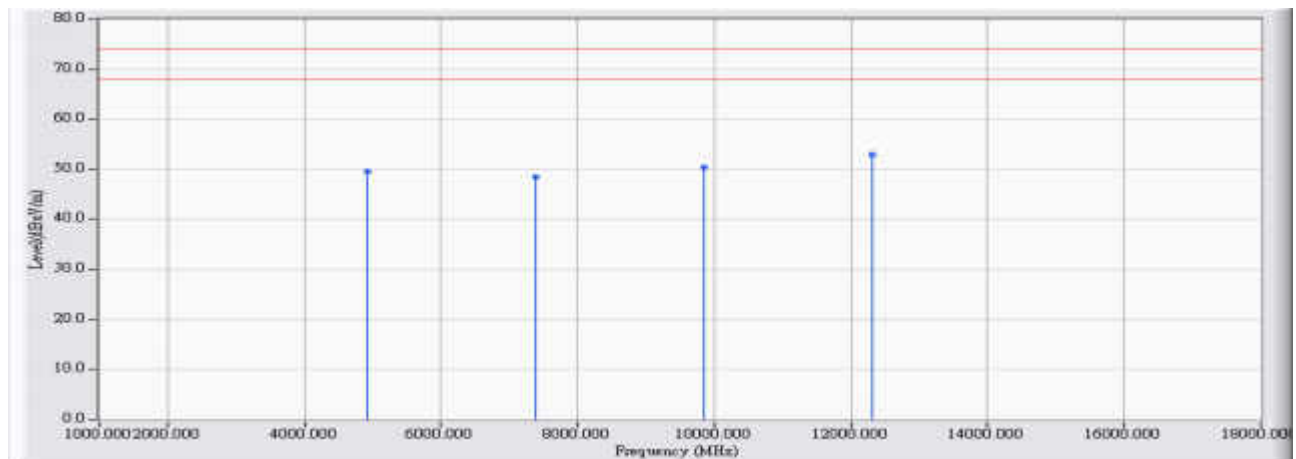


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	40.70	48.148	-25.852	74.000	PEAK
2		7386.000	16.057	35.00	51.067	-22.933	74.000	PEAK
3		9848.000	21.531	28.90	50.432	-23.568	74.000	PEAK
4	*	12310.000	24.667	28.20	52.937	-21.063	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2462MHz_Ant1

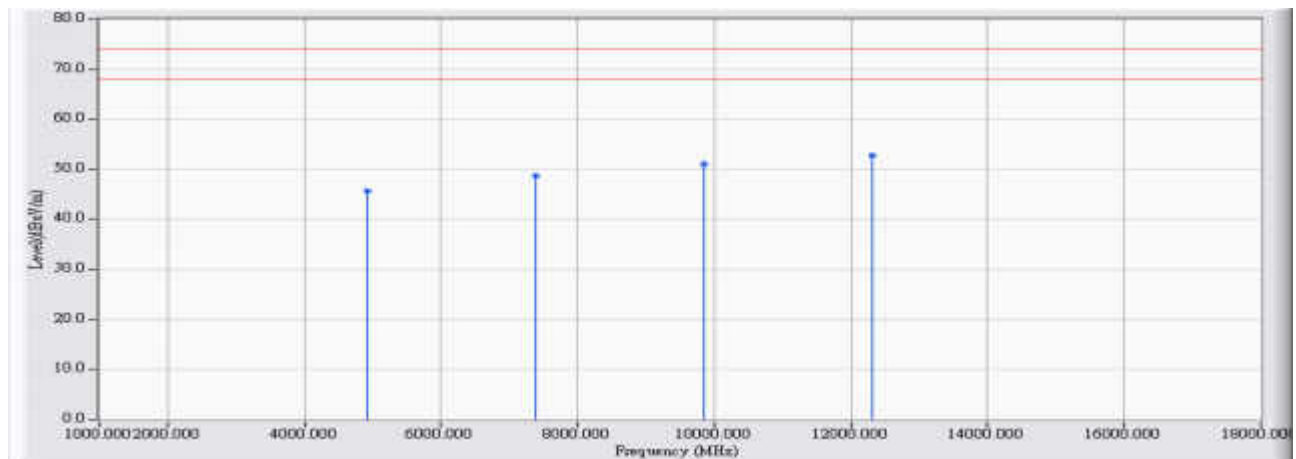


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	42.10	49.568	-24.432	74.000	PEAK
2		7386.000	16.057	32.40	48.457	-25.543	74.000	PEAK
3		9848.000	21.531	28.94	50.472	-23.528	74.000	PEAK
4	*	12310.000	24.667	28.20	52.887	-21.113	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2462MHz_Ant1

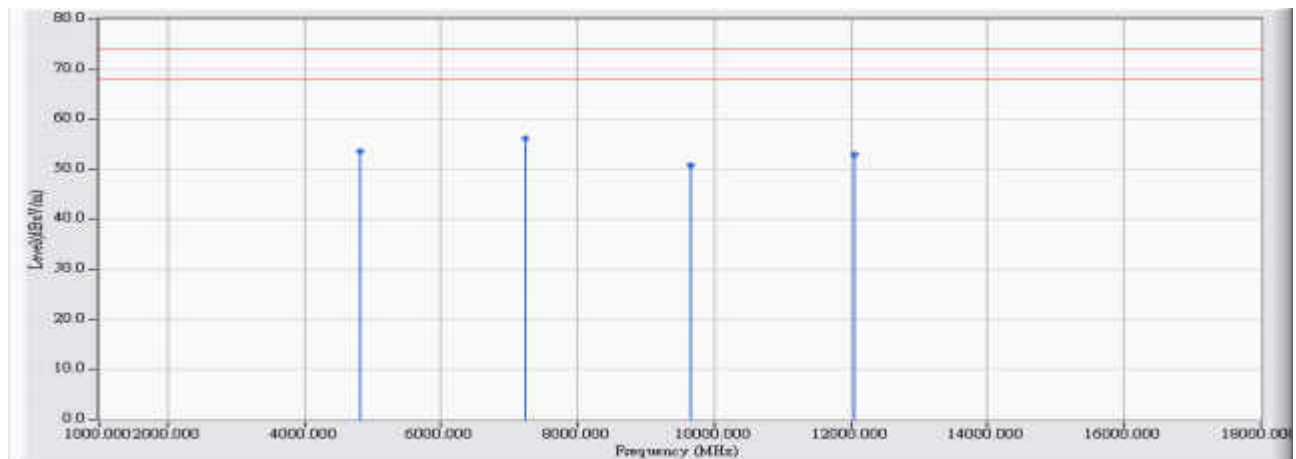


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	38.40	45.778	-28.222	74.000	PEAK
2		7386.000	16.057	32.59	48.647	-25.353	74.000	PEAK
3		9848.000	21.531	29.40	50.942	-23.058	74.000	PEAK
4	*	12310.000	24.667	28.10	52.767	-21.233	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant0

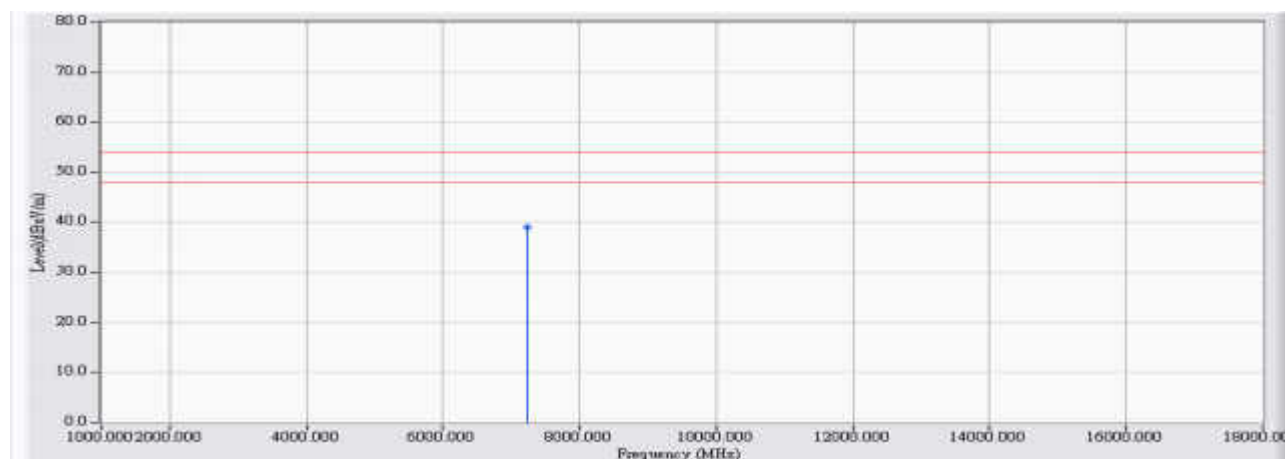


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	46.56	53.620	-20.380	74.000	PEAK
2	*	7236.000	15.277	40.84	56.117	-17.883	74.000	PEAK
3		9648.000	21.231	29.67	50.902	-23.098	74.000	PEAK
4		12060.000	25.137	27.79	52.927	-21.073	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant0

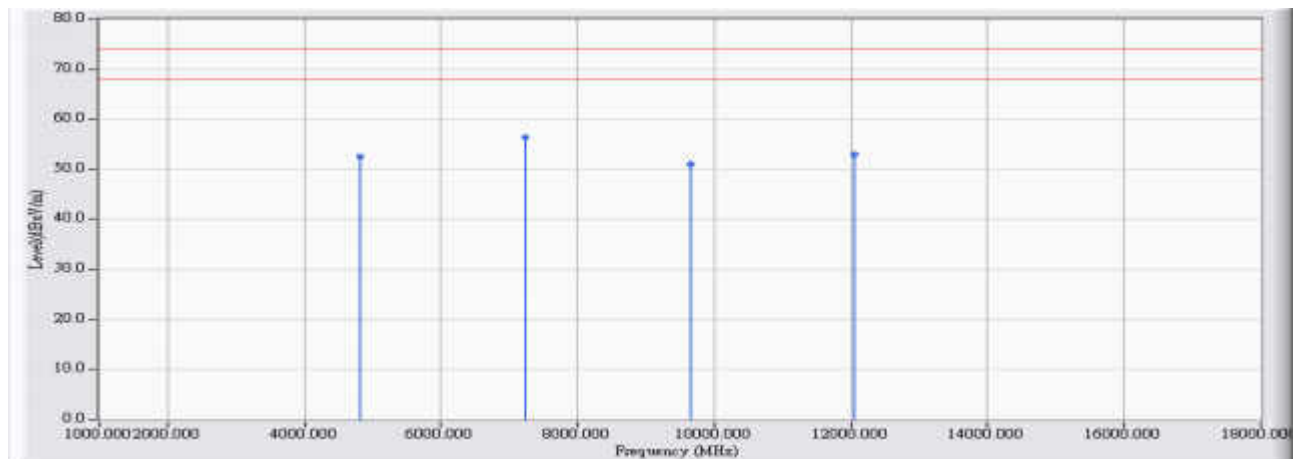


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.000	15.277	23.850	39.127	-14.873	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant0

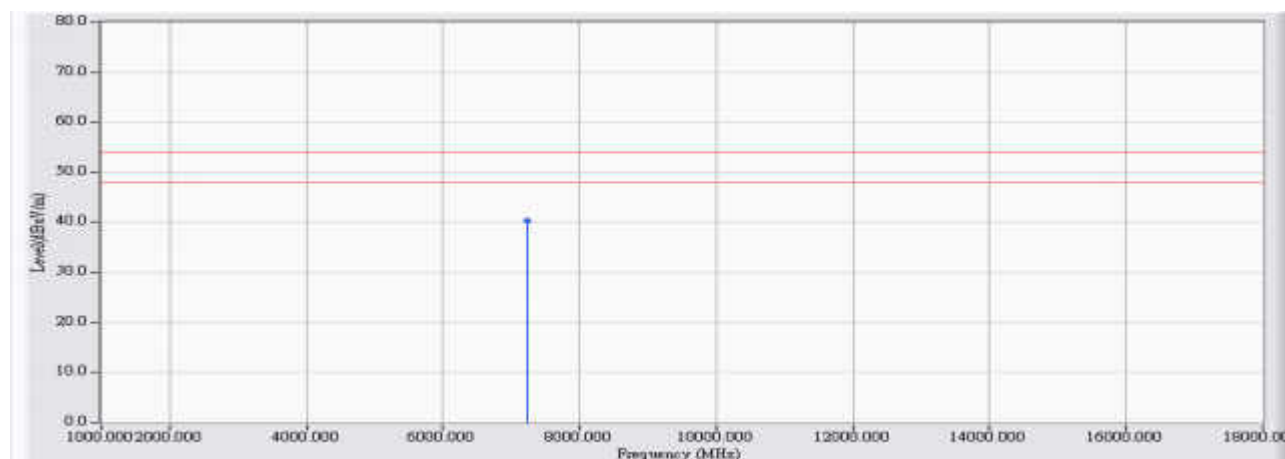


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	45.53	52.590	-21.410	74.000	PEAK
2	*	7236.000	15.277	41.19	56.407	-17.593	74.000	PEAK
3		9648.000	21.231	29.70	50.942	-23.058	74.000	PEAK
4		12060.000	25.137	27.84	52.977	-21.023	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant0

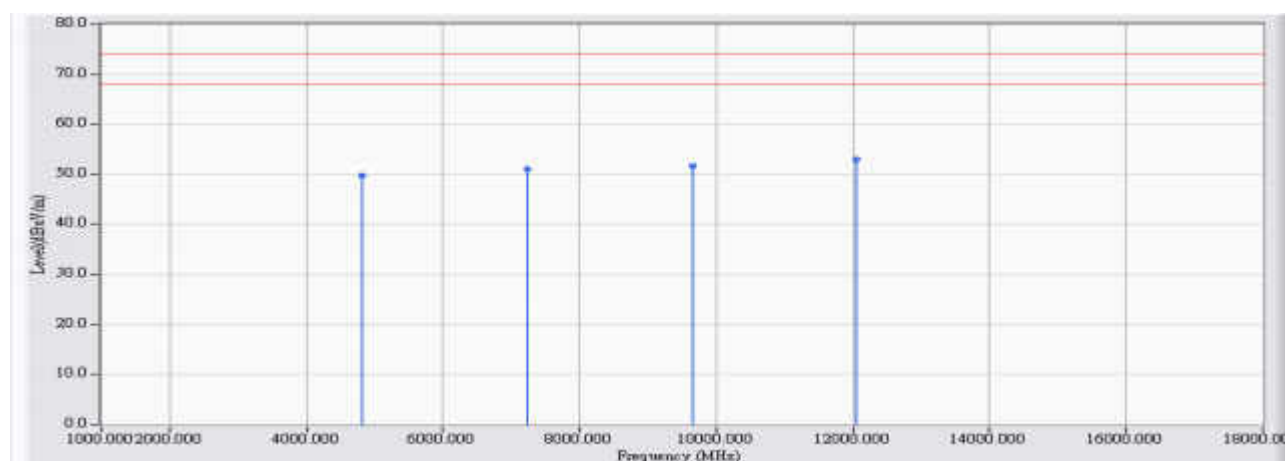


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.000	15.277	24.940	40.217	-13.783	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant1

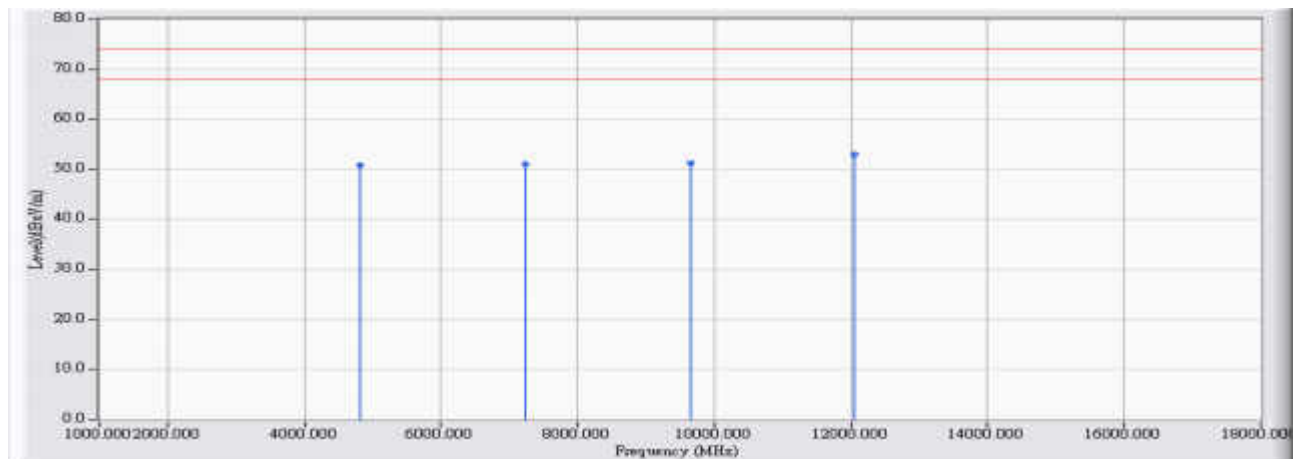


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	42.79	49.850	-24.150	74.000	PEAK
2		7236.000	15.277	35.76	51.037	-22.963	74.000	PEAK
3		9648.000	21.231	30.39	51.622	-22.378	74.000	PEAK
4	*	12060.000	25.137	27.70	52.907	-21.093	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2412MHz_Ant1

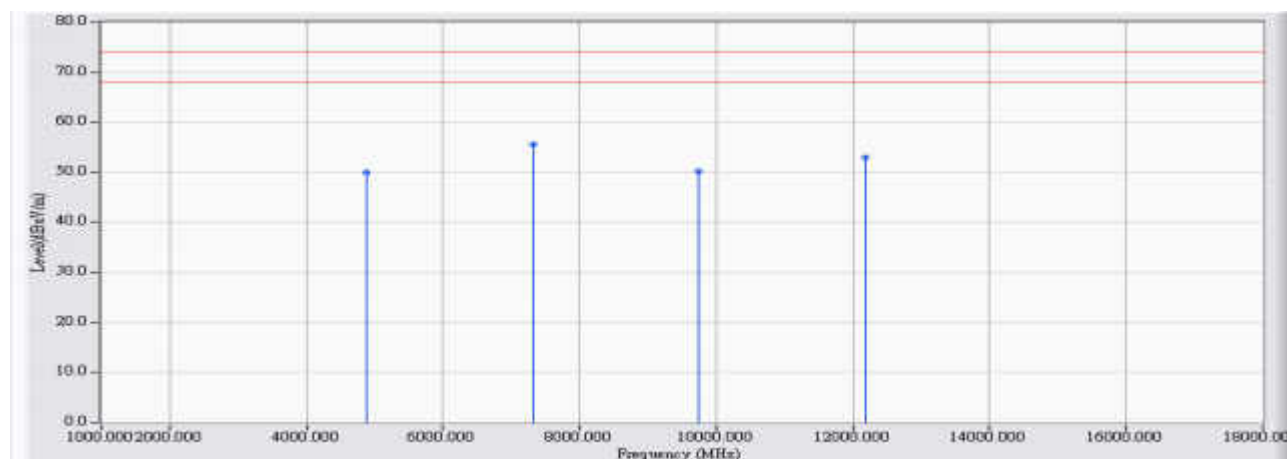


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	43.67	50.730	-23.270	74.000	PEAK
2		7236.000	15.277	35.79	51.067	-22.933	74.000	PEAK
3		9648.000	21.231	29.93	51.162	-22.838	74.000	PEAK
4	*	12060.000	25.137	27.80	52.967	-21.033	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

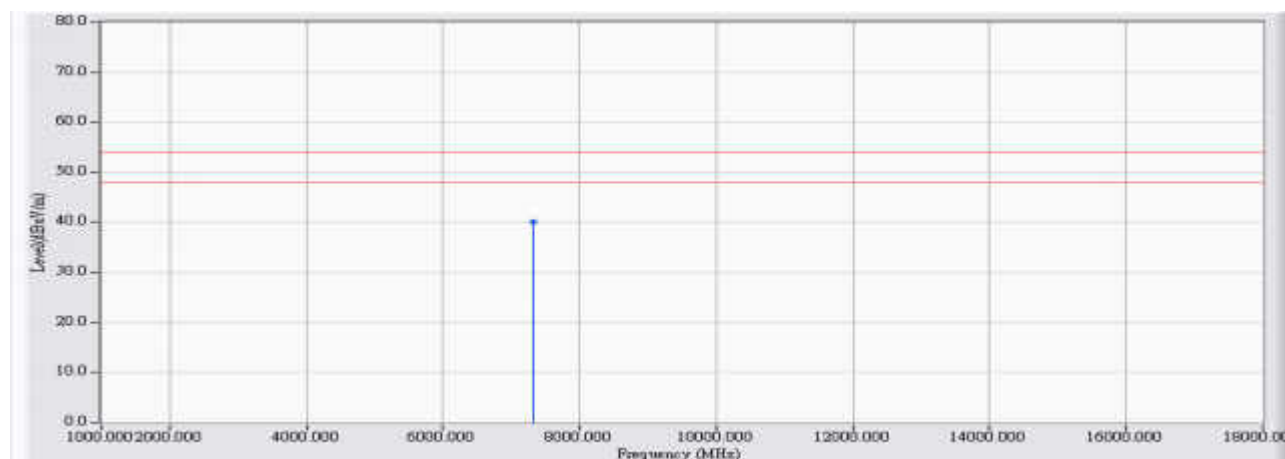


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	42.82	50.039	-23.961	74.000	PEAK
2	*	7311.000	15.667	39.89	55.497	-18.503	74.000	PEAK
3		9748.000	21.381	28.78	50.162	-23.838	74.000	PEAK
4		12185.000	24.902	28.00	52.912	-21.088	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

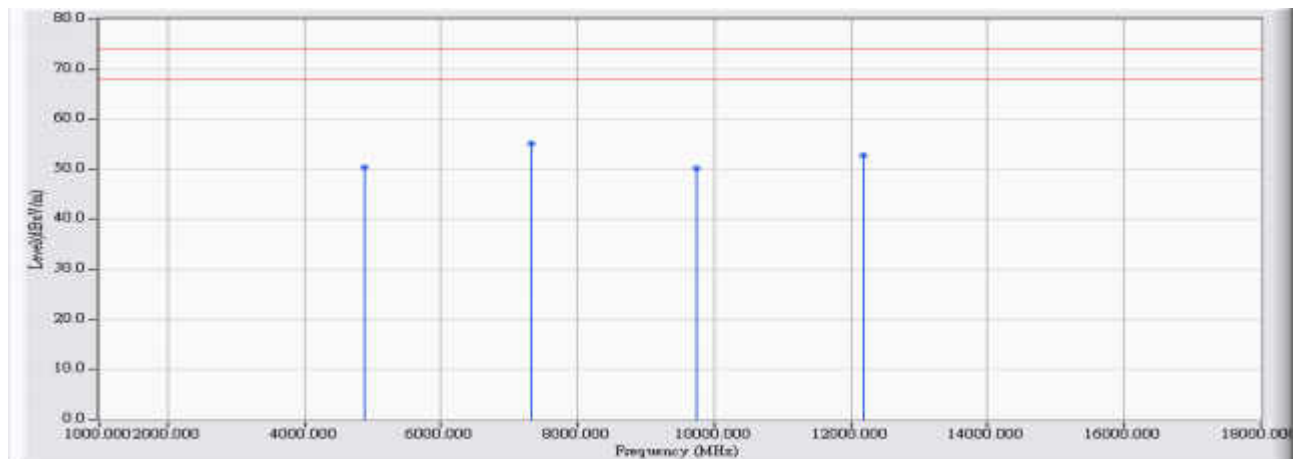


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.000	15.667	24.450	40.117	-13.883	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

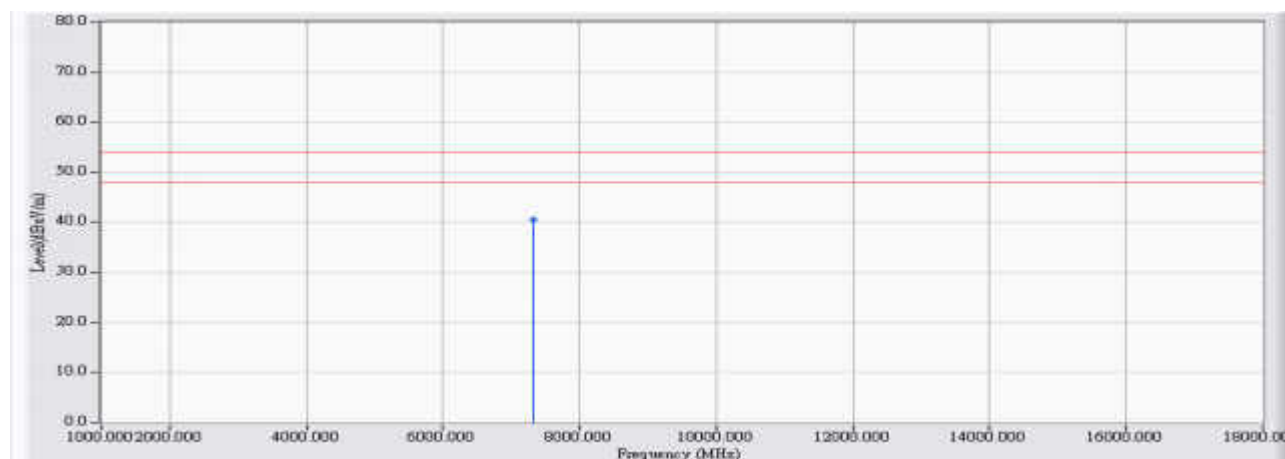


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	43.22	50.439	-23.561	74.000	PEAK
2	*	7311.000	15.667	39.53	55.197	-18.803	74.000	PEAK
3		9748.000	21.381	28.77	50.152	-23.848	74.000	PEAK
4		12185.000	24.902	27.94	52.842	-21.158	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant0

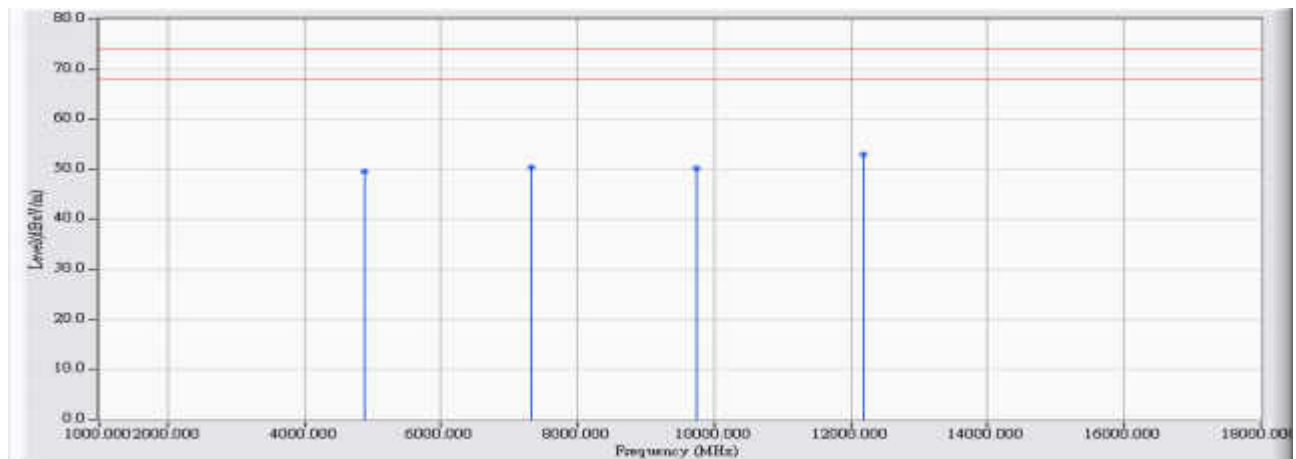


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.000	15.667	24.770	40.437	-13.563	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant1

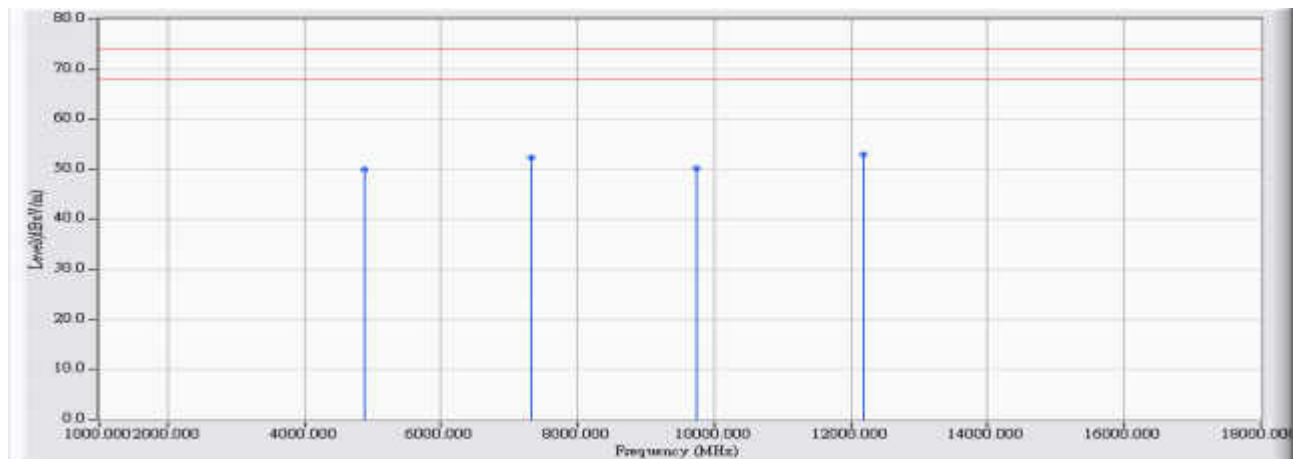


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	42.39	49.609	-24.391	74.000	PEAK
2		7311.000	15.667	34.70	50.377	-23.623	74.000	PEAK
3		9748.000	21.381	28.90	50.292	-23.708	74.000	PEAK
4	*	12185.000	24.902	28.00	52.912	-21.088	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2437MHz_Ant1

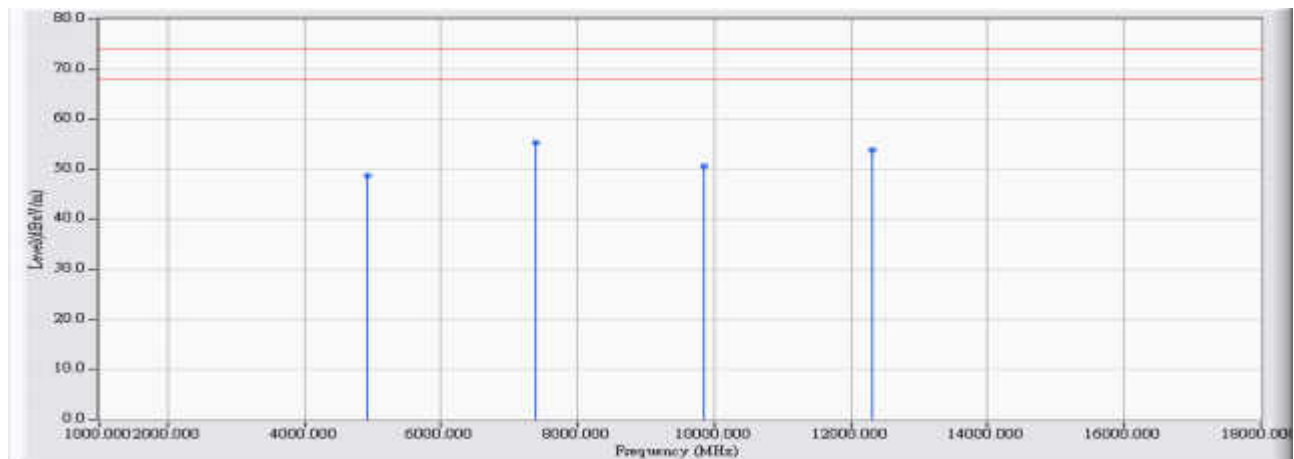


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	42.69	49.909	-24.091	74.000	PEAK
2		7311.000	15.667	36.76	52.427	-21.573	74.000	PEAK
3		9748.000	21.381	28.83	50.212	-23.788	74.000	PEAK
4	*	12185.000	24.902	28.02	52.922	-21.078	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant0

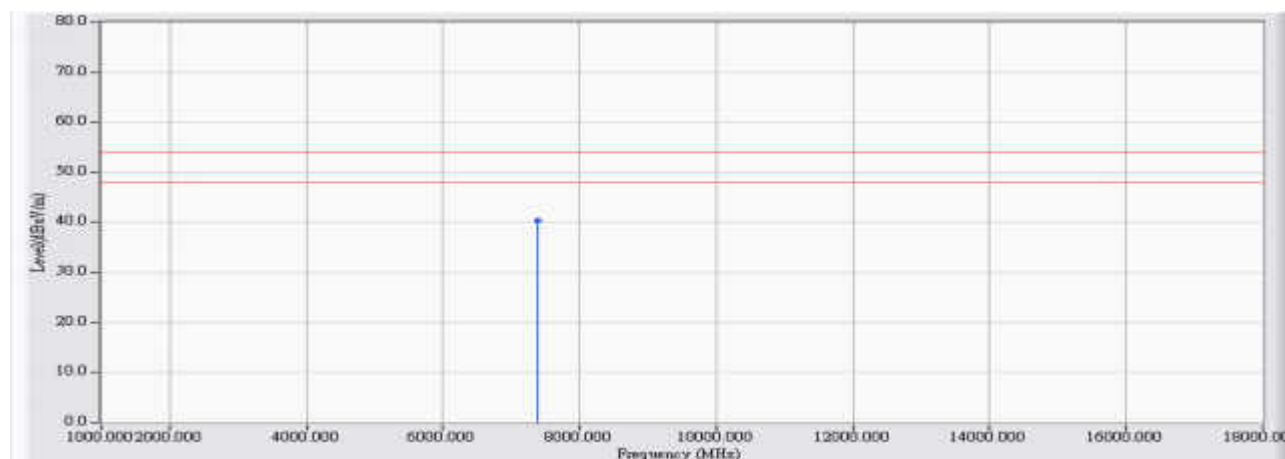


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	41.22	48.598	-25.402	74.000	PEAK
2	*	7386.000	16.057	39.33	55.387	-18.613	74.000	PEAK
3		9848.000	21.531	29.17	50.702	-23.298	74.000	PEAK
4		12310.000	24.667	29.24	53.907	-20.093	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant0

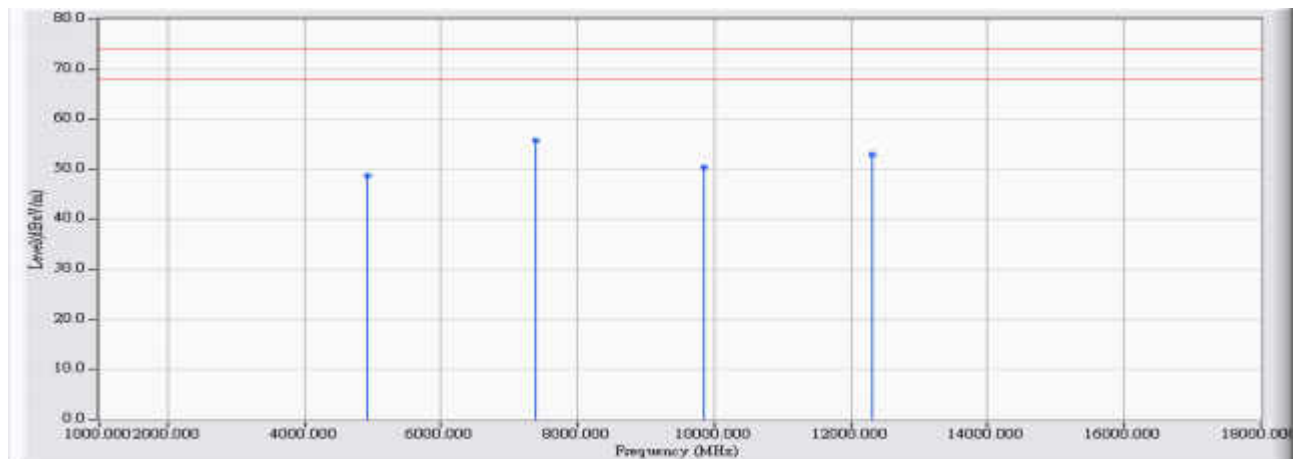


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.000	16.057	24.320	40.377	-13.623	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant0

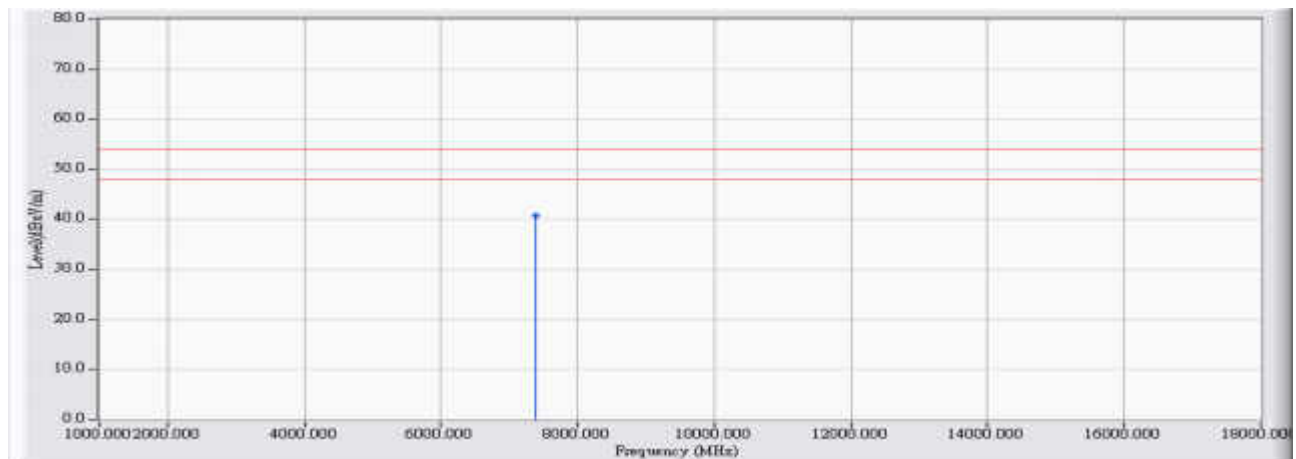


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	41.36	48.738	-25.262	74.000	PEAK
2	*	7386.000	16.057	39.60	55.657	-18.343	74.000	PEAK
3		9848.000	21.531	28.80	50.332	-23.668	74.000	PEAK
4		12310.000	24.667	28.20	52.937	-21.063	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant0

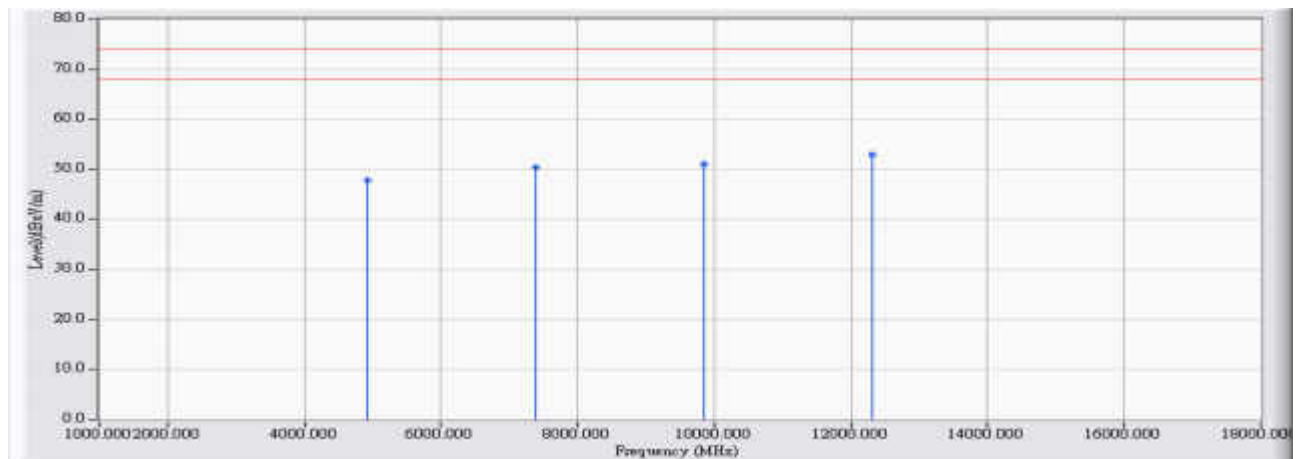


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.000	16.057	24.780	40.837	-13.163	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant1

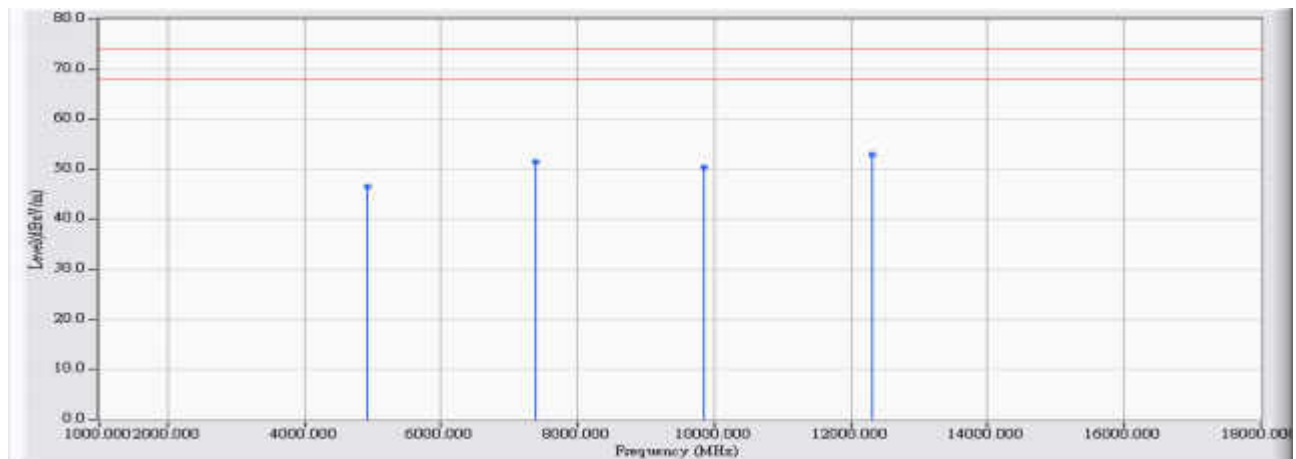


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	40.53	47.908	-26.092	74.000	PEAK
2		7386.000	16.057	34.32	50.377	-23.623	74.000	PEAK
3		9848.000	21.531	29.41	50.942	-23.058	74.000	PEAK
4	*	12310.000	24.667	28.30	52.977	-21.023	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11g_2462MHz_Ant1

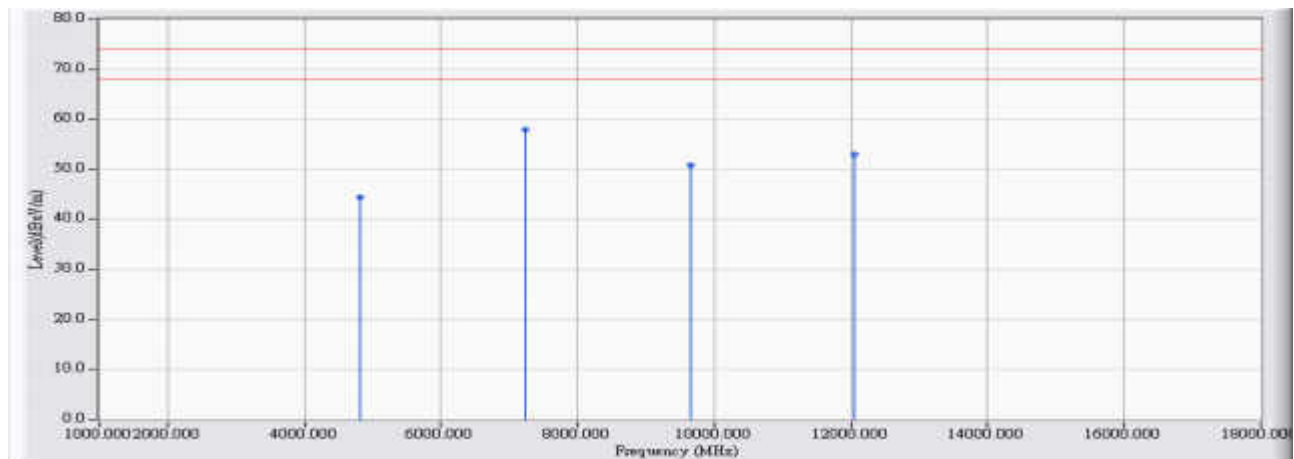


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	39.110	46.488	-27.512	74.000	PEAK
2		7386.000	16.057	35.480	51.537	-22.463	74.000	PEAK
3		9848.000	21.531	28.850	50.382	-23.618	74.000	PEAK
4	*	12310.000	24.667	28.200	52.897	-21.103	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2412MHz

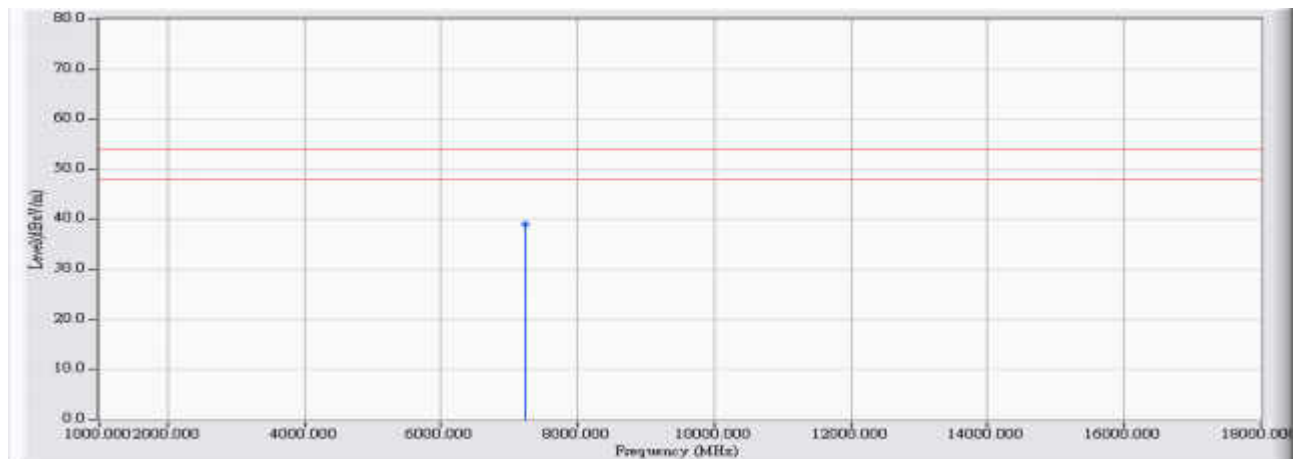


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	37.40	44.470	-29.530	74.000	PEAK
2	*	7236.000	15.277	42.79	58.007	-15.993	74.000	PEAK
3		9648.000	21.231	29.67	50.902	-23.098	74.000	PEAK
4		12060.000	25.137	27.80	52.937	-21.063	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2412MHz

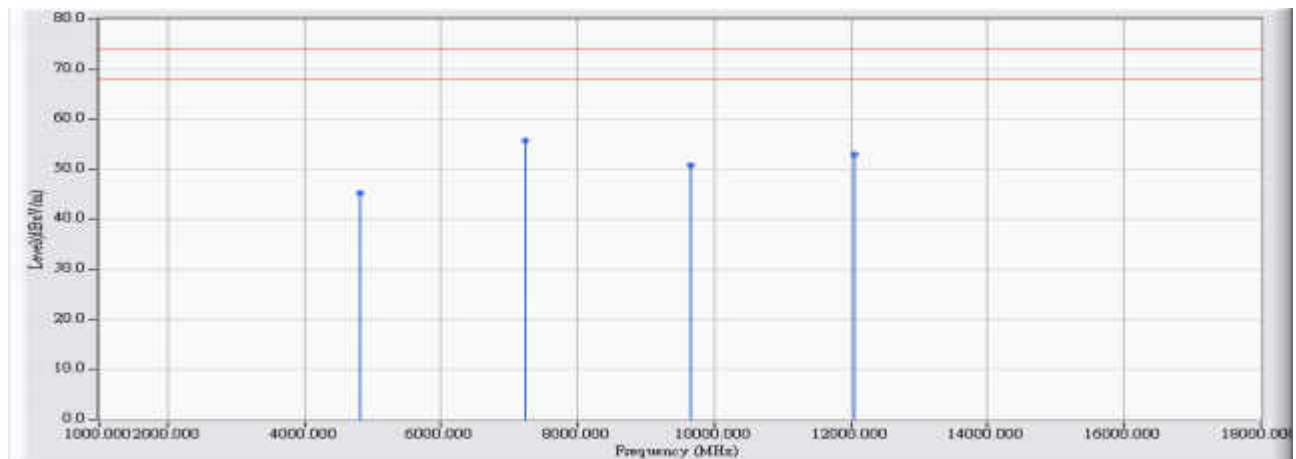


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.000	15.277	23.710	38.987	-15.013	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2412MHz

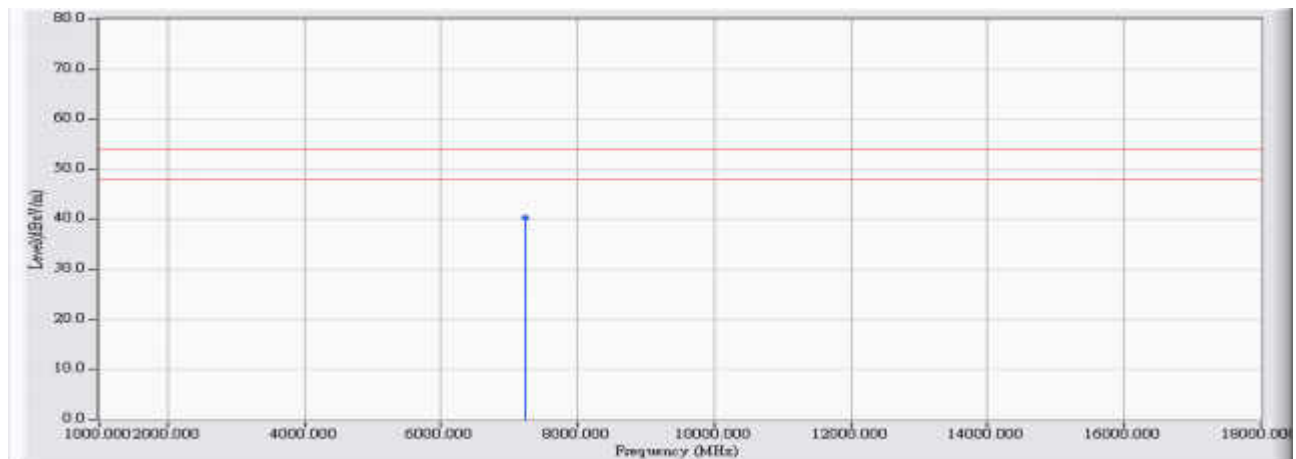


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	7.060	38.20	45.260	-28.740	74.000	PEAK
2	*	7236.000	15.277	40.59	55.867	-18.133	74.000	PEAK
3		9648.000	21.231	29.57	50.802	-23.198	74.000	PEAK
4		12060.000	25.137	27.84	52.977	-21.023	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2412MHz

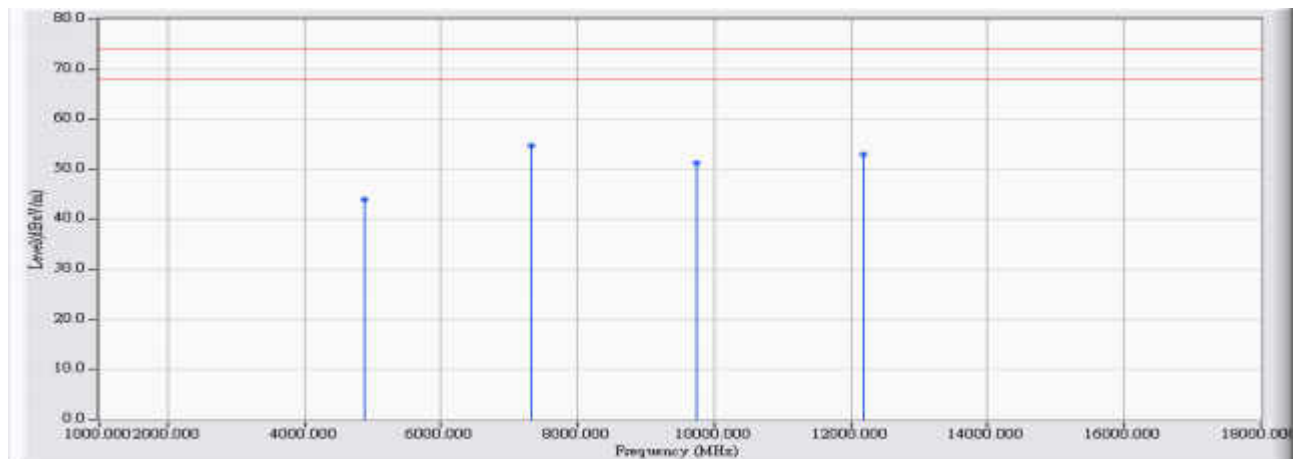


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.000	15.277	24.990	40.267	-13.733	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2437MHz

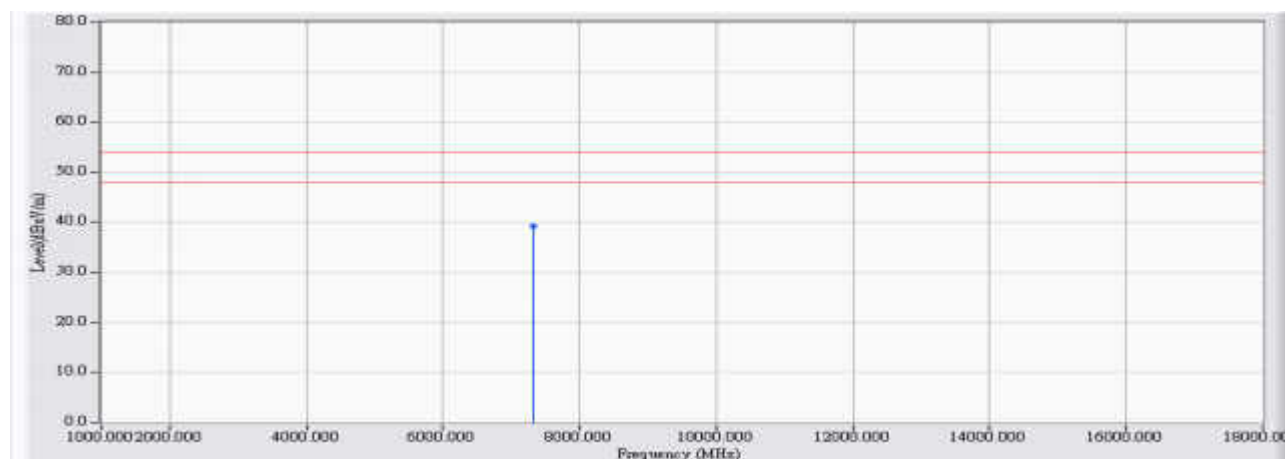


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	36.82	44.039	-29.961	74.000	PEAK
2	*	7311.000	15.667	38.99	54.657	-19.343	74.000	PEAK
3		9748.000	21.381	29.79	51.172	-22.828	74.000	PEAK
4		12185.000	24.902	28.09	52.992	-21.008	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2437MHz

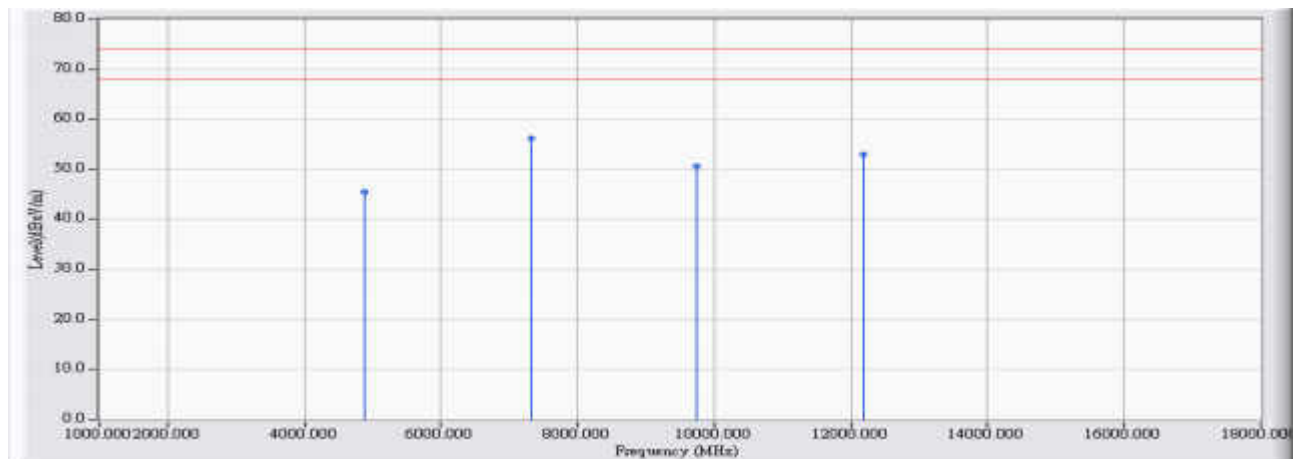


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.000	15.667	23.620	39.287	-14.713	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2437MHz

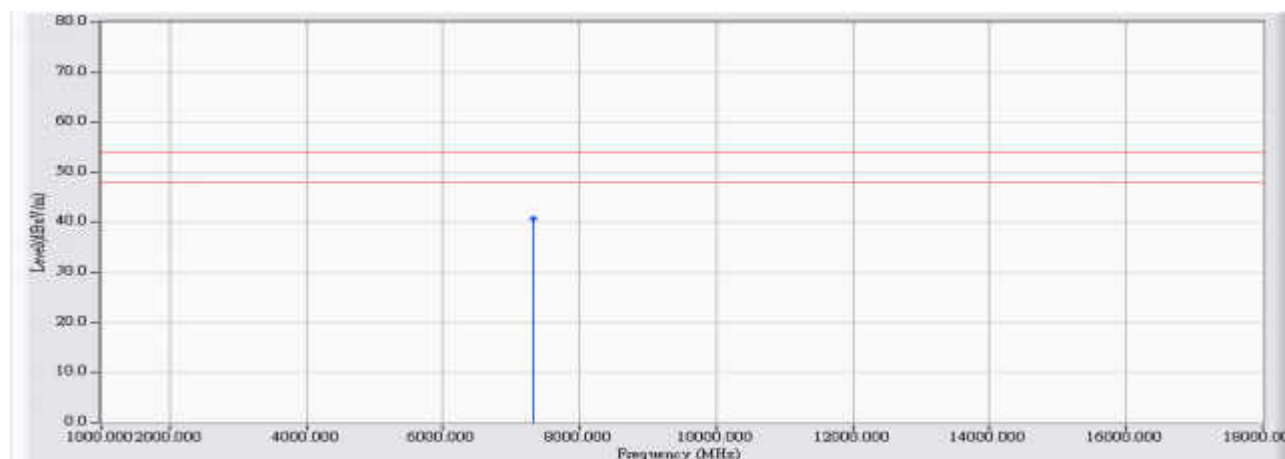


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	38.25	45.469	-28.531	74.000	PEAK
2	*	7311.000	15.667	40.49	56.157	-17.843	74.000	PEAK
3		9748.000	21.381	29.16	50.542	-23.458	74.000	PEAK
4		12185.000	24.902	27.98	52.882	-21.118	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2437MHz

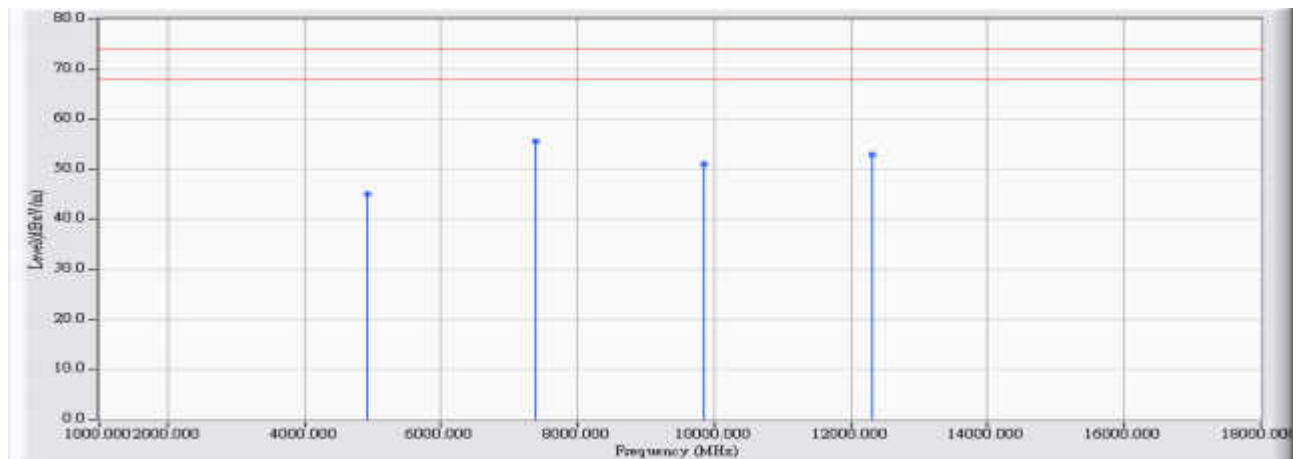


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.000	15.667	25.170	40.837	-13.163	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2462MHz

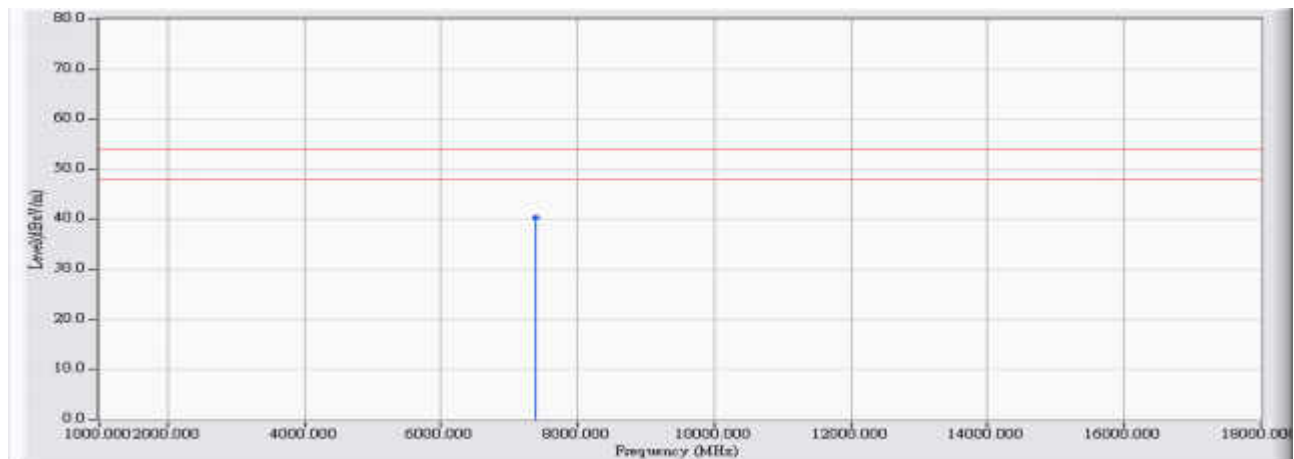


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	37.60	45.068	-28.932	74.000	PEAK
2	*	7386.000	16.057	39.45	55.507	-18.493	74.000	PEAK
3		9848.000	21.531	29.48	51.012	-22.988	74.000	PEAK
4		12310.000	24.667	28.33	52.997	-21.003	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2462MHz

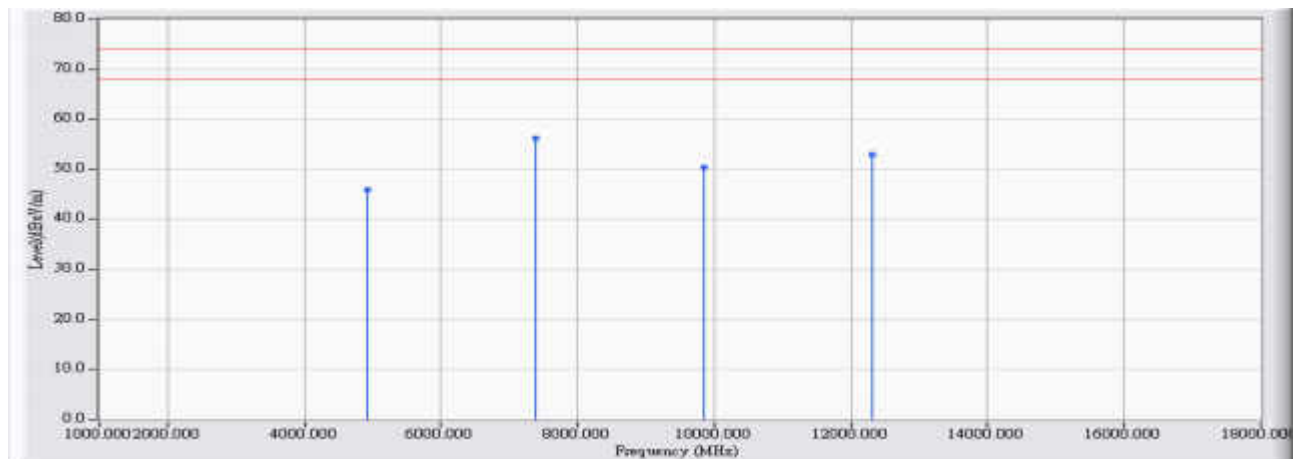


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.000	16.057	24.350	40.407	-13.593	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2462MHz

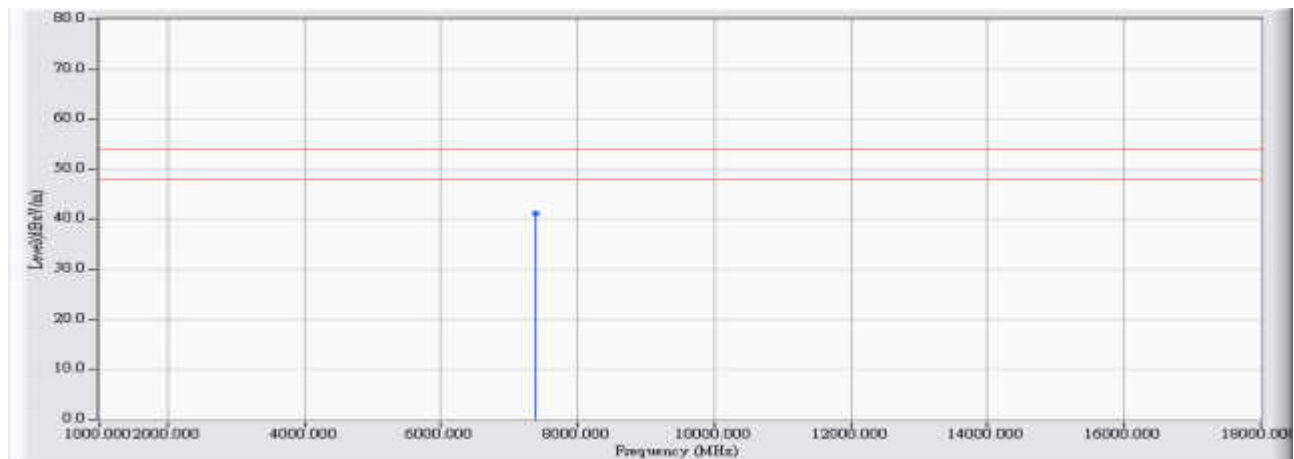


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	7.378	38.62	45.998	-28.002	74.000	PEAK
2	*	7386.000	16.057	40.14	56.197	-17.803	74.000	PEAK
3		9848.000	21.531	28.95	50.482	-23.518	74.000	PEAK
4		12310.000	24.667	28.25	52.917	-21.083	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(20M)_2462MHz

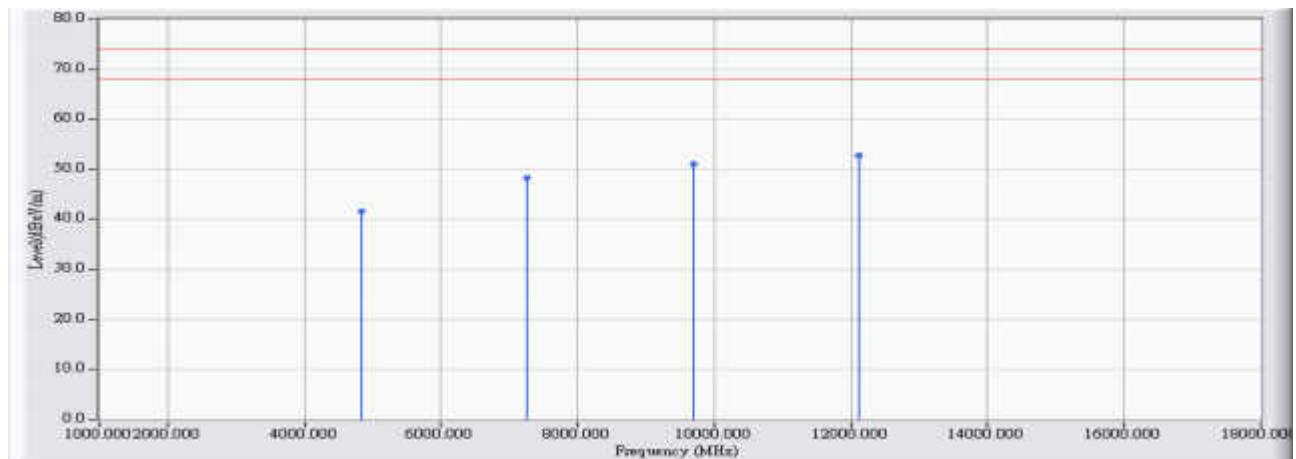


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7386.000	16.057	25.130	41.187	-12.813	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2422MHz

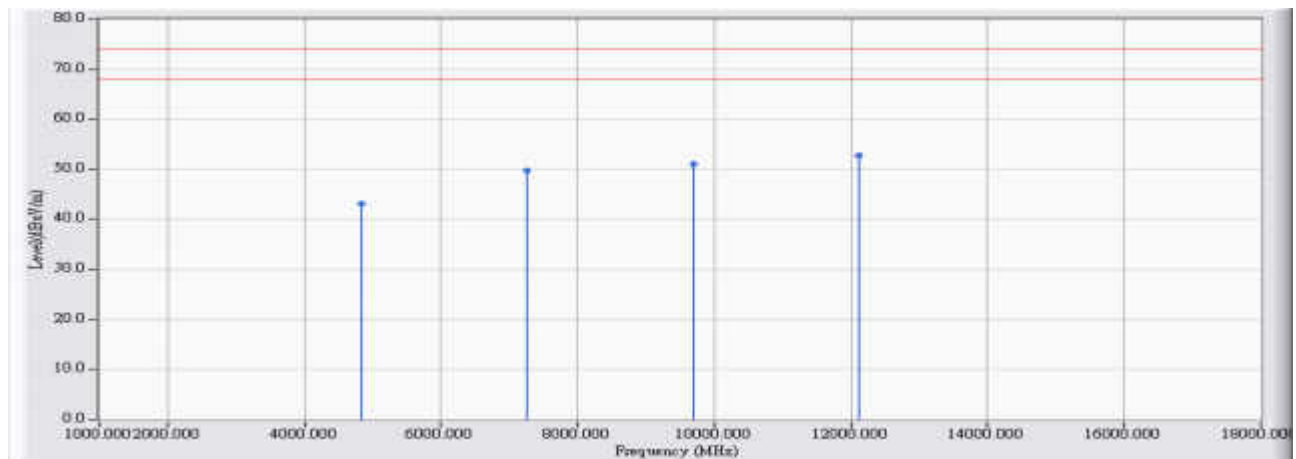


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	7.124	34.50	41.624	-32.376	74.000	PEAK
2		7266.000	15.433	32.74	48.173	-25.827	74.000	PEAK
3		9688.000	21.291	29.70	51.002	-22.998	74.000	PEAK
4	*	12110.000	25.043	27.80	52.853	-21.147	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2422MHz

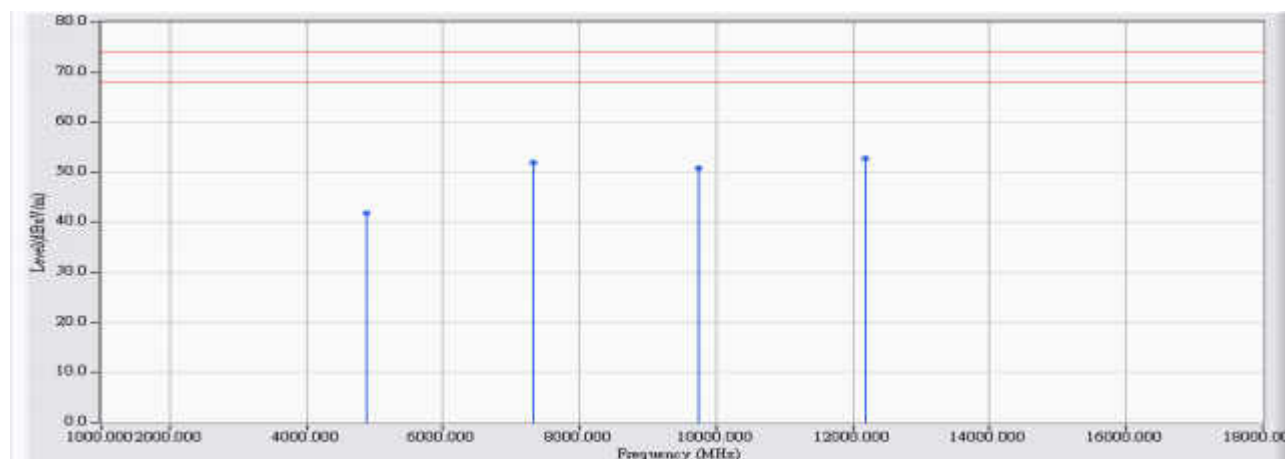


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	7.124	35.93	43.054	-30.946	74.000	PEAK
2		7266.000	15.433	34.43	49.863	-24.137	74.000	PEAK
3		9688.000	21.291	29.83	51.122	-22.878	74.000	PEAK
4	*	12110.000	25.043	27.82	52.863	-21.137	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2437MHz

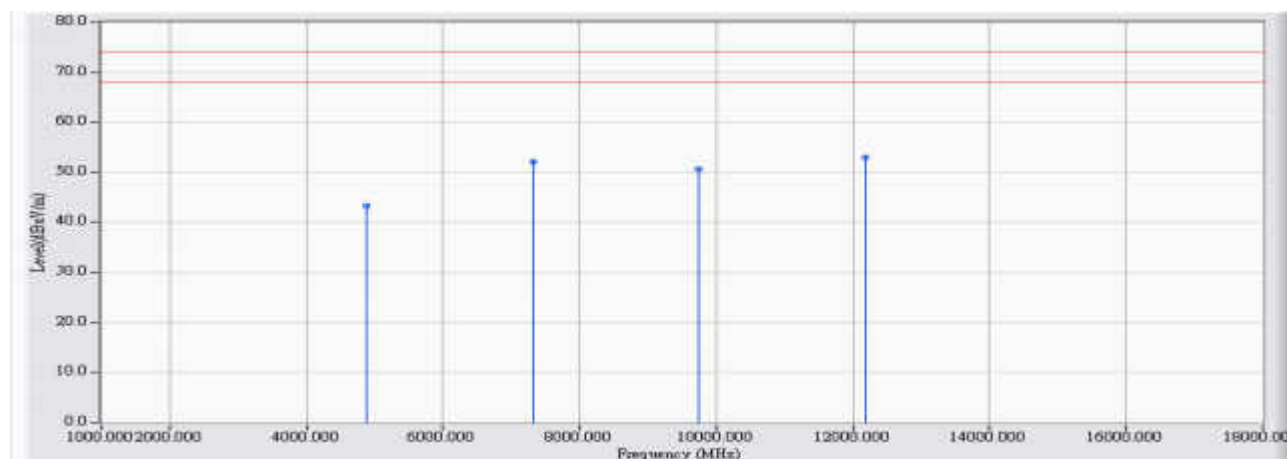


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	34.60	41.829	-32.171	74.000	PEAK
2		7311.000	15.667	36.32	51.987	-22.013	74.000	PEAK
3		9748.000	21.381	29.36	50.742	-23.258	74.000	PEAK
4	*	12185.000	24.902	27.90	52.822	-21.178	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2437MHz

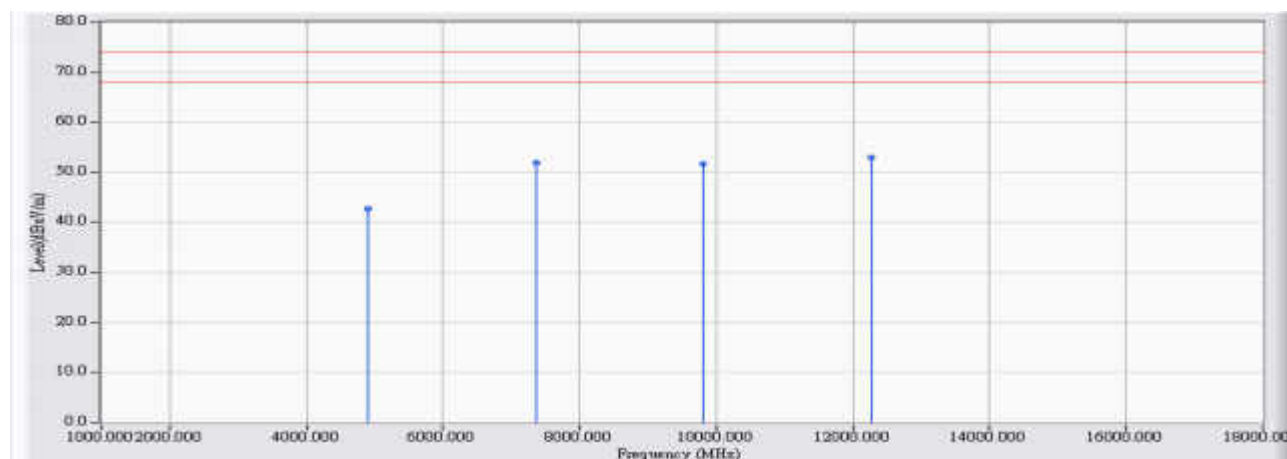


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	7.219	36.07	43.289	-30.711	74.000	PEAK
2		7311.000	15.667	36.47	52.137	-21.863	74.000	PEAK
3		9748.000	21.381	29.28	50.662	-23.338	74.000	PEAK
4	*	12185.000	24.902	28.00	52.922	-21.078	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2452MHz

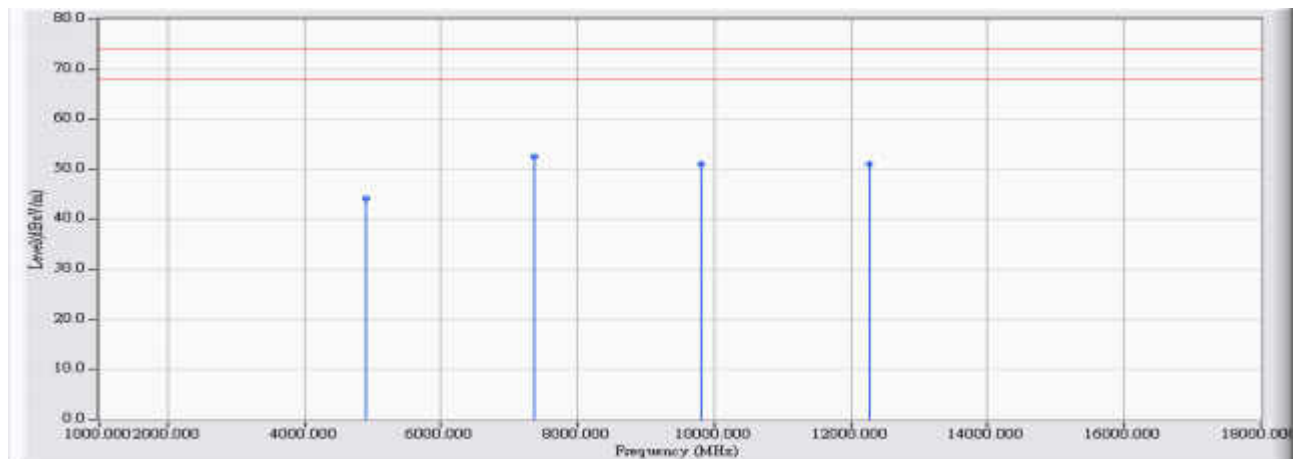


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	7.315	35.45	42.765	-31.235	74.000	PEAK
2		7356.000	15.900	36.09	51.991	-22.009	74.000	PEAK
3		9808.000	21.471	30.26	51.732	-22.268	74.000	PEAK
4	*	12260.000	24.761	28.10	52.881	-21.119	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/03/28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 2: Tx_MIMO Mode 802.11n(40M)_2452MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	7.315	36.82	44.135	-29.865	74.000	PEAK
2	*	7356.000	15.900	36.65	52.551	-21.449	74.000	PEAK
3		9808.000	21.471	29.49	50.962	-23.038	74.000	PEAK
4		12260.000	24.761	26.29	51.051	-22.949	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

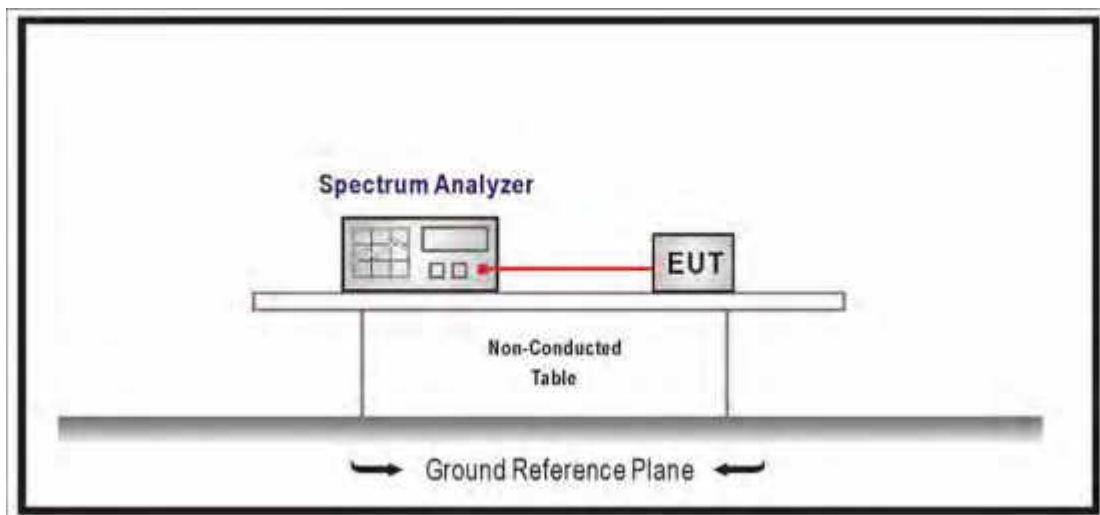
RF Antenna Conducted Test / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	JS47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

5.6. Uncertainty

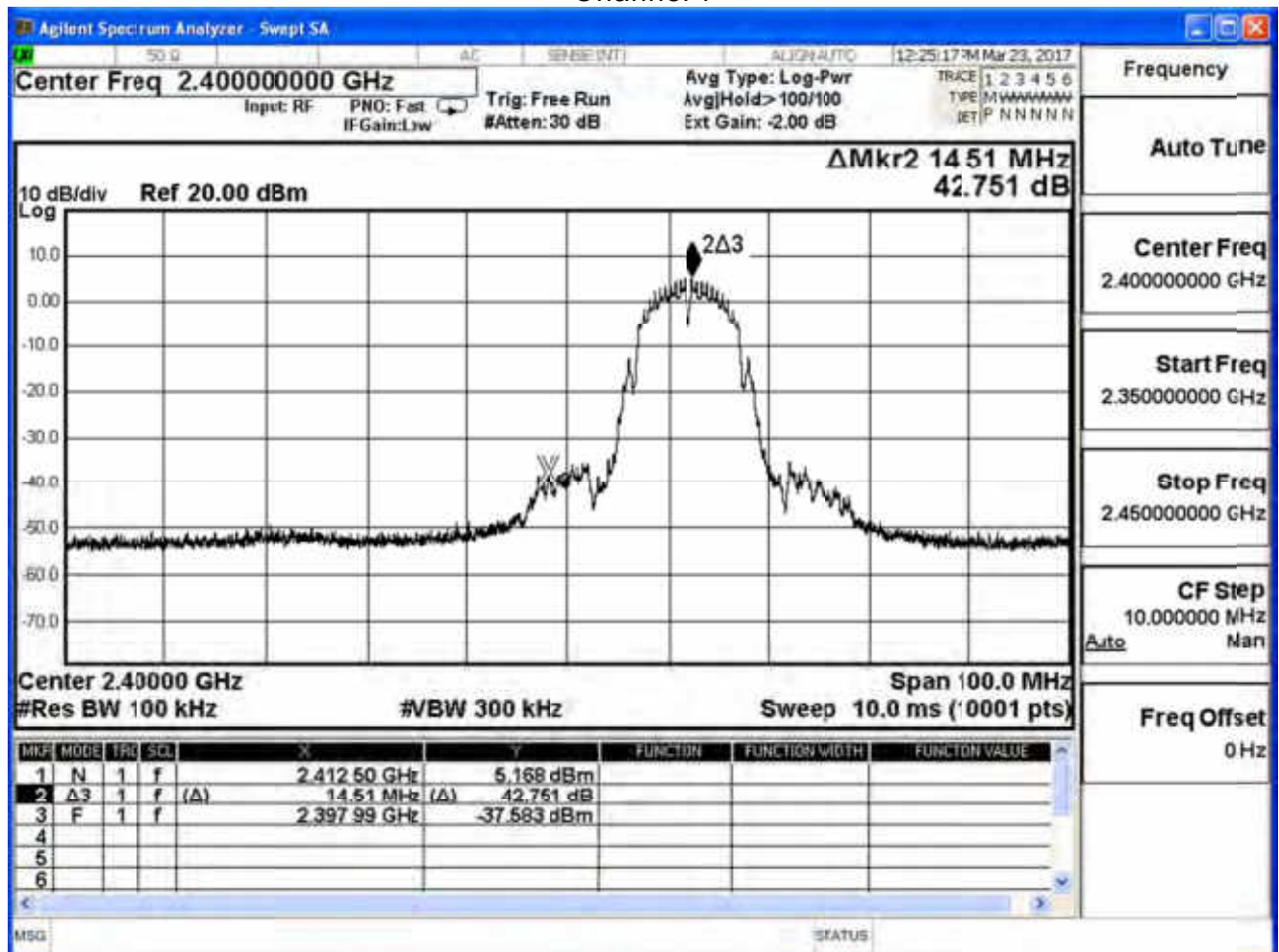
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

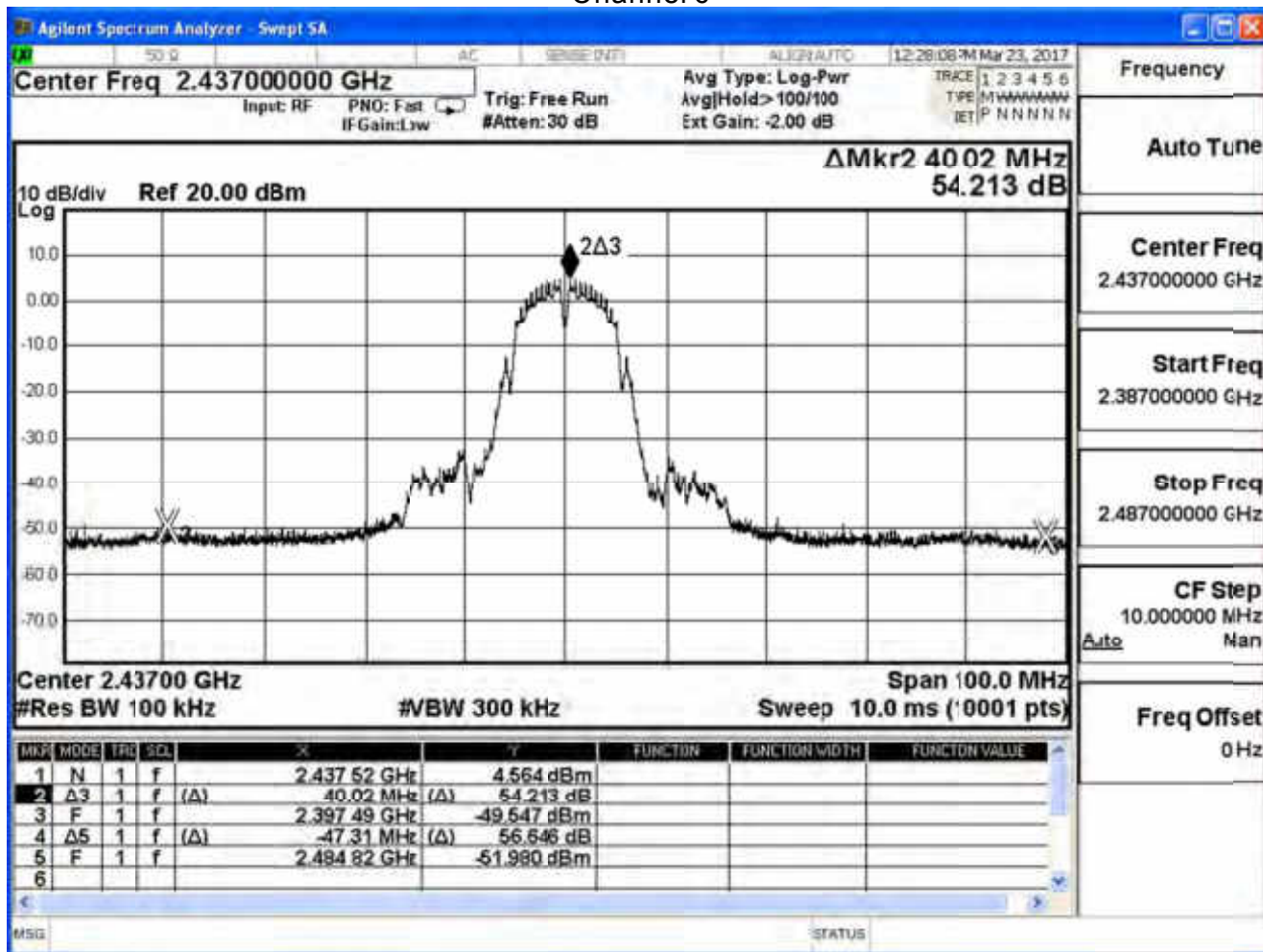
Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.751	> 20	Pass
6	2437	54.213	≥ 20	Pass
11	2462	55.438	> 20	Pass

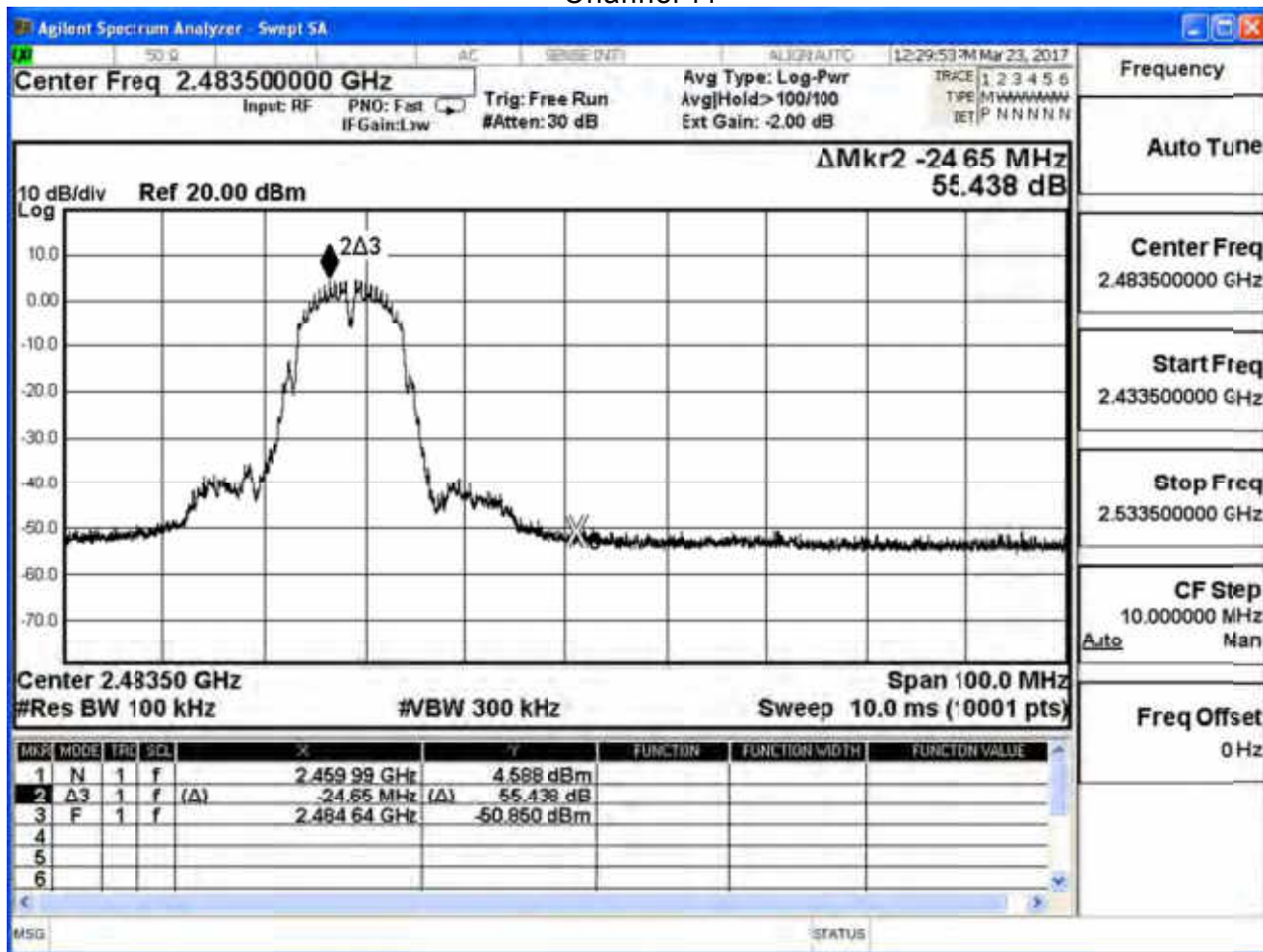
Channel 1



Channel 6



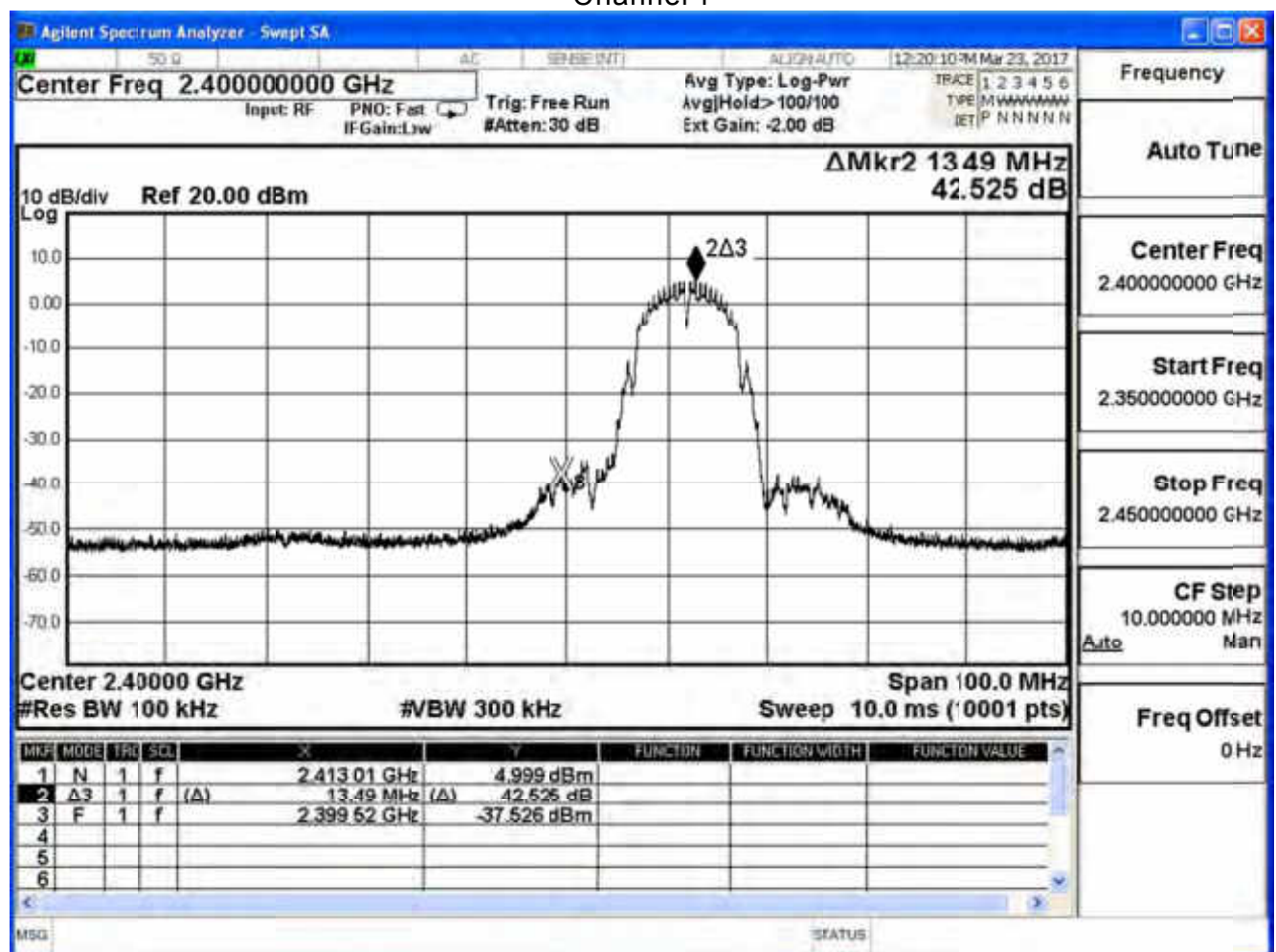
Channel 11



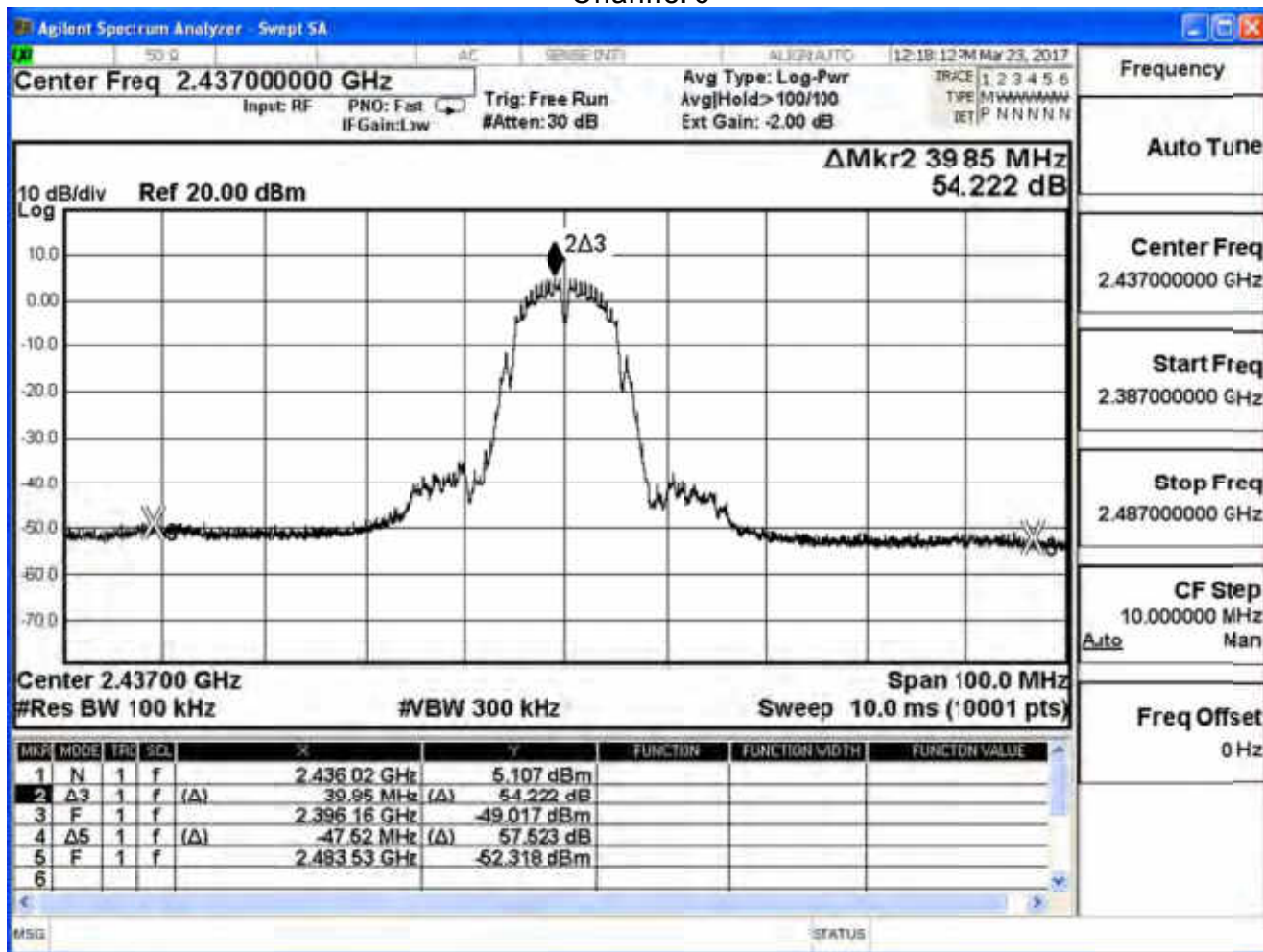
Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.525	> 20	Pass
6	2437	54.222	≥ 20	Pass
11	2462	55.492	> 20	Pass

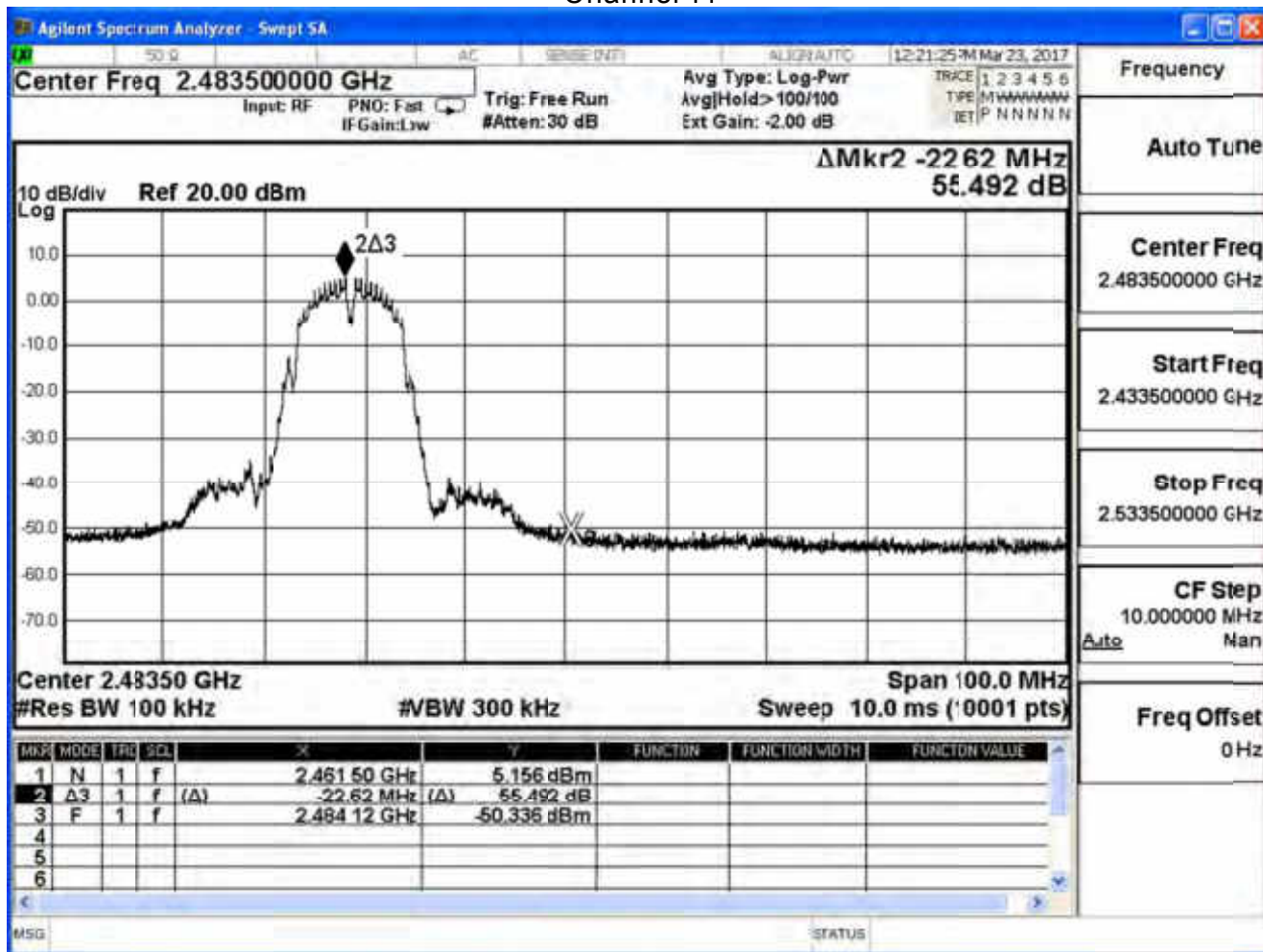
Channel 1



Channel 6



Channel 11

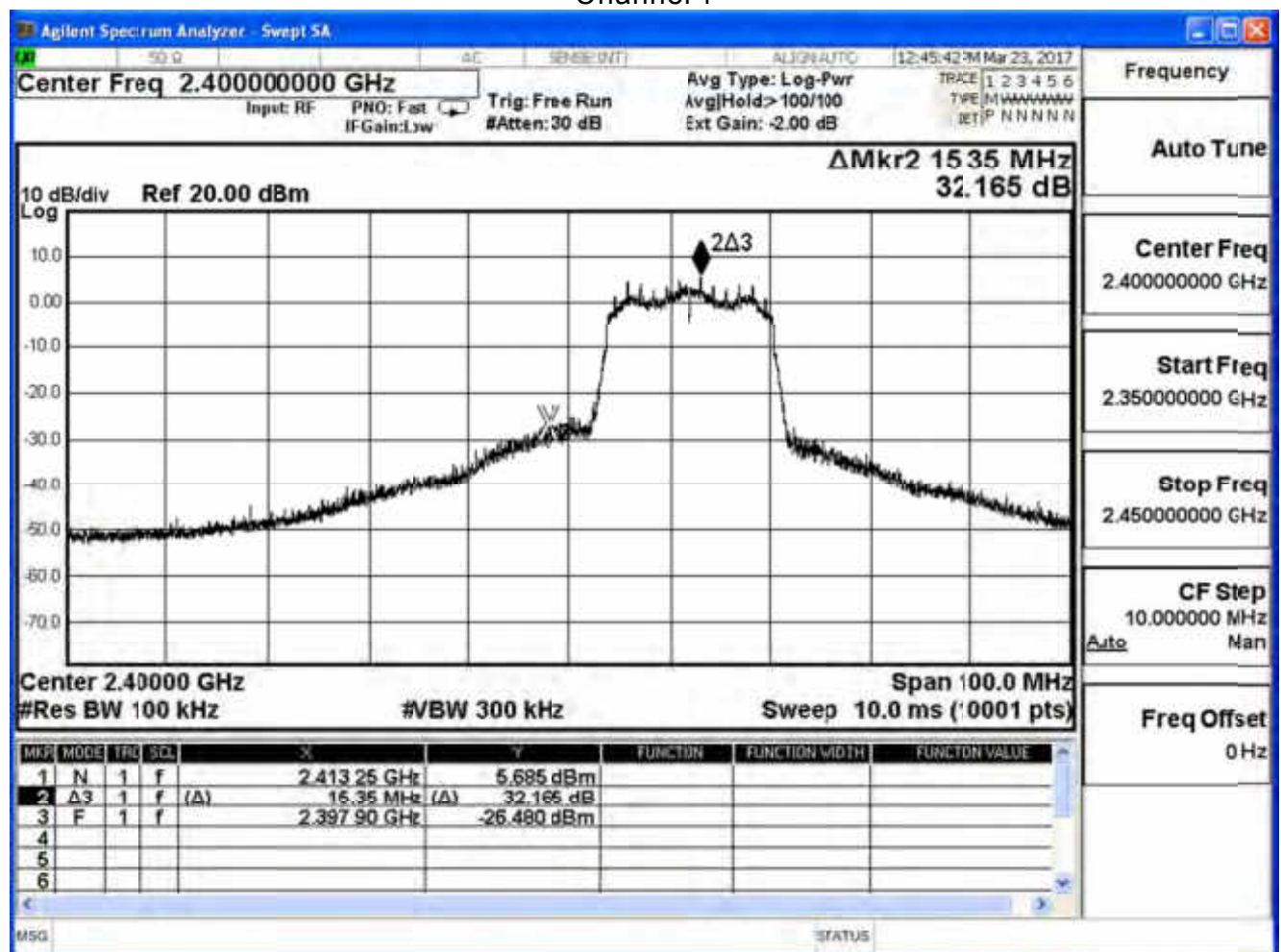


Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

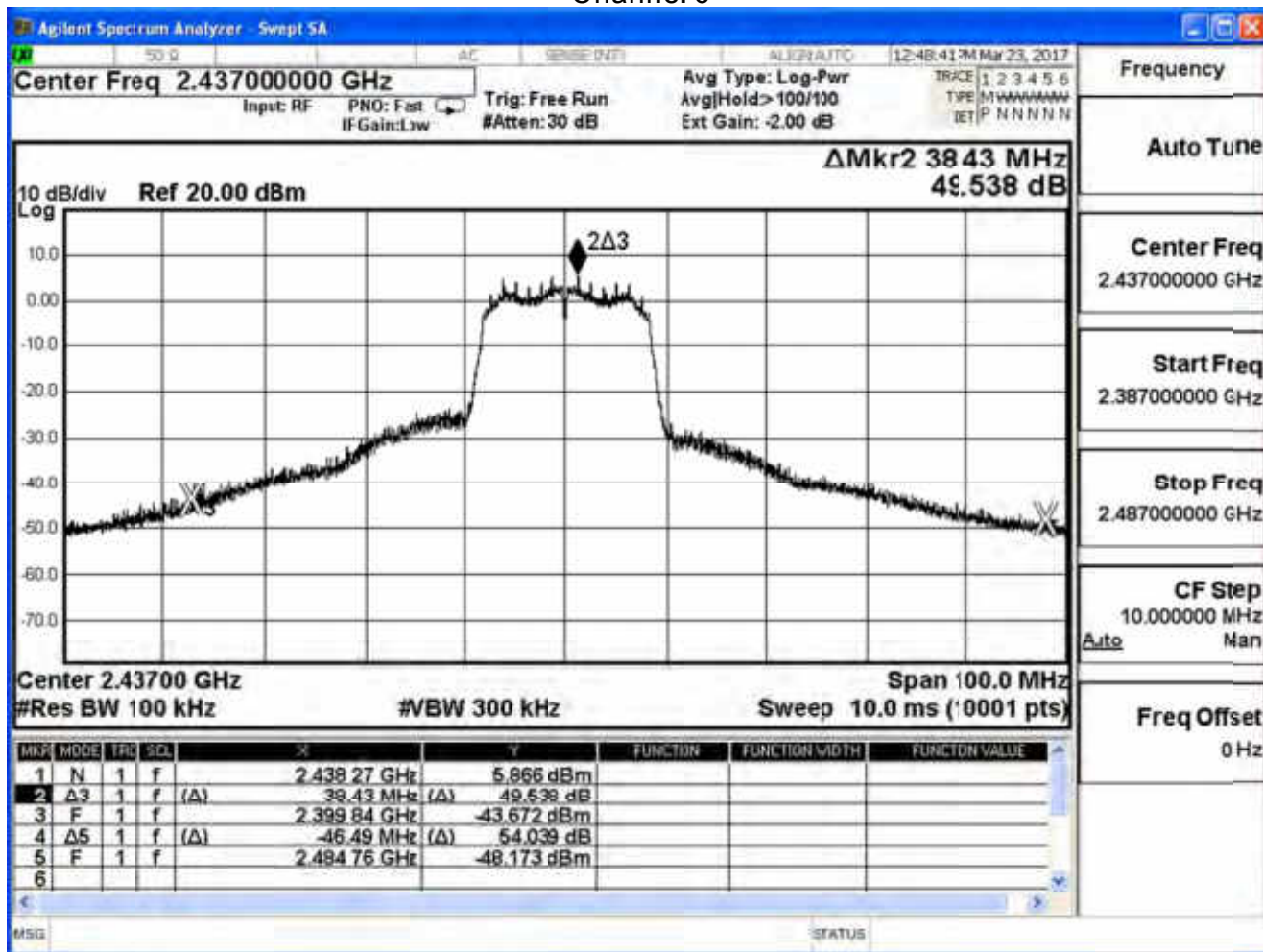
IEEE 802.11g (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.165	≥ 20	Pass
6	2437	49.538	> 20	Pass
11	2462	46.551	≥ 20	Pass

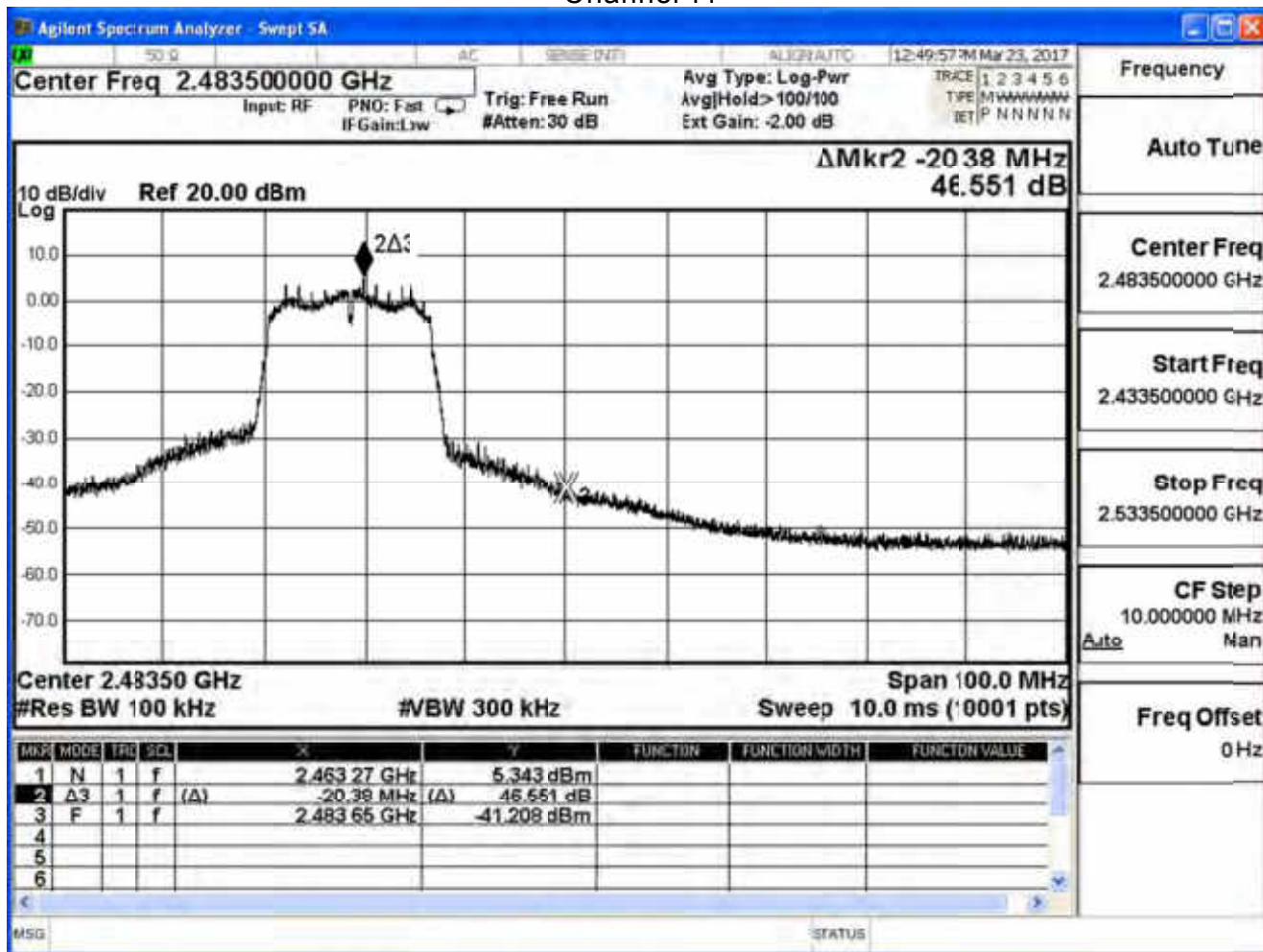
Channel 1



Channel 6



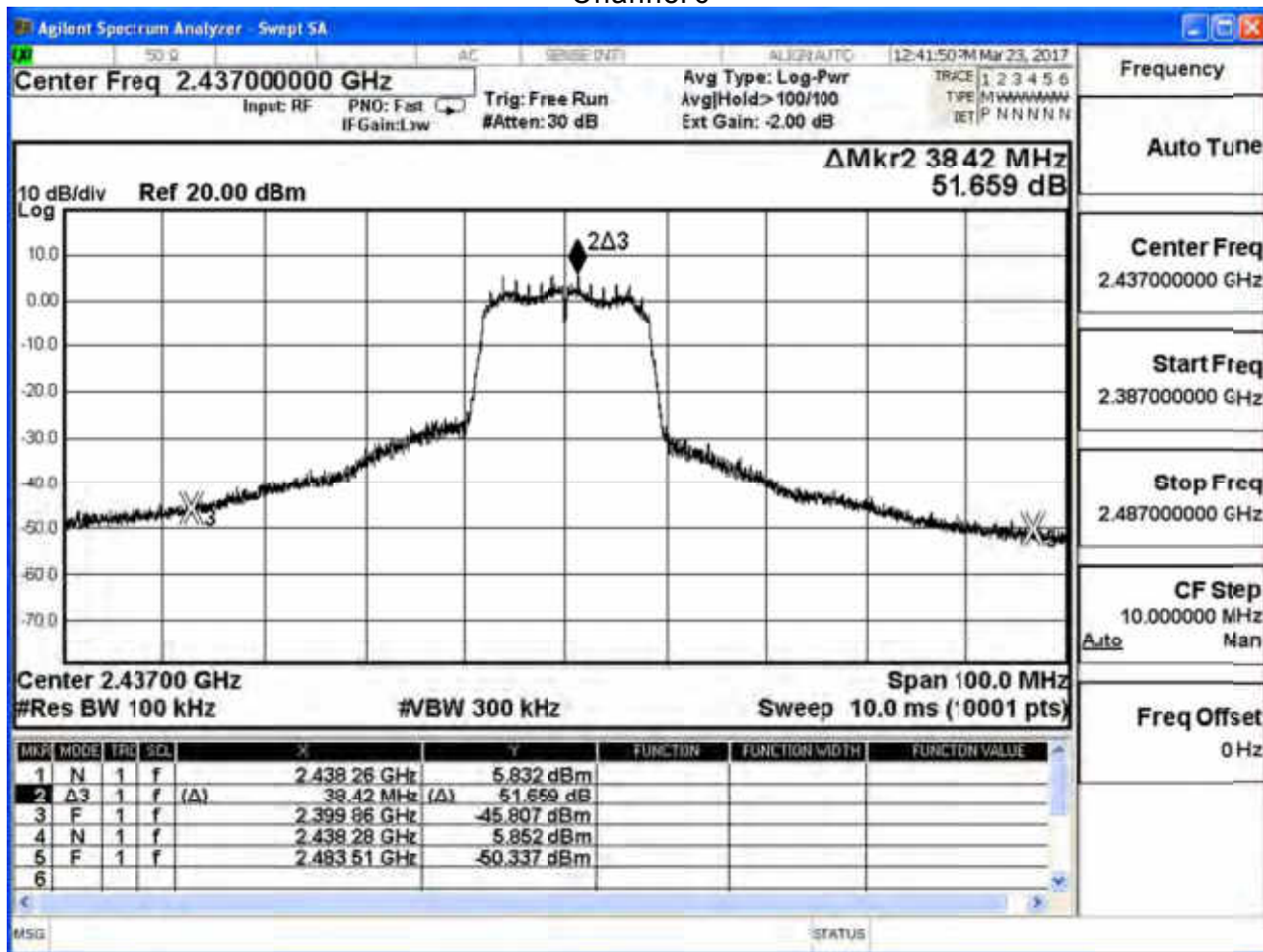
Channel 11



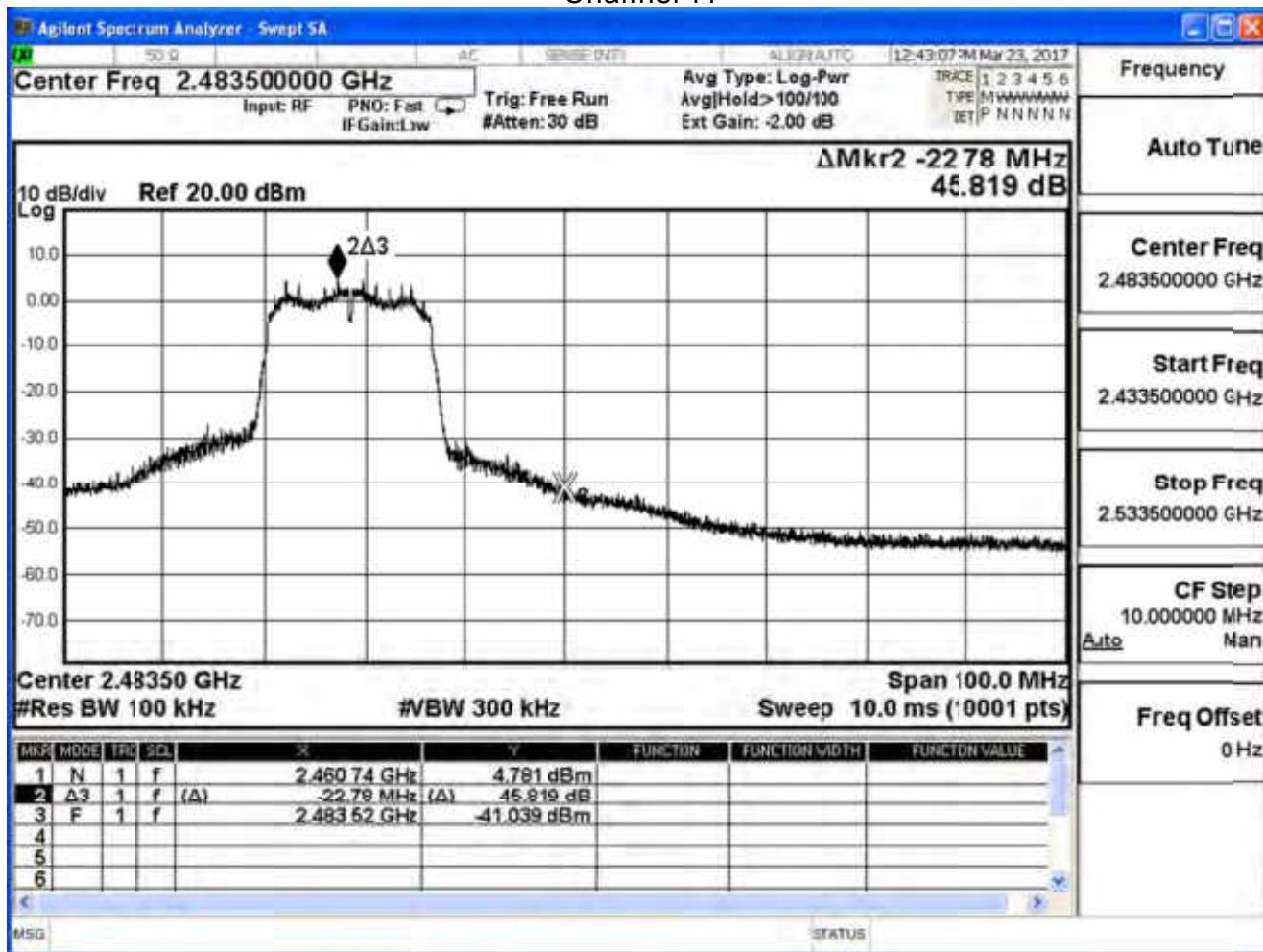
IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.440	> 20	Pass
6	2437	51.659	≥ 20	Pass
11	2462	45.819	> 20	Pass

[illegible]

Channel 6



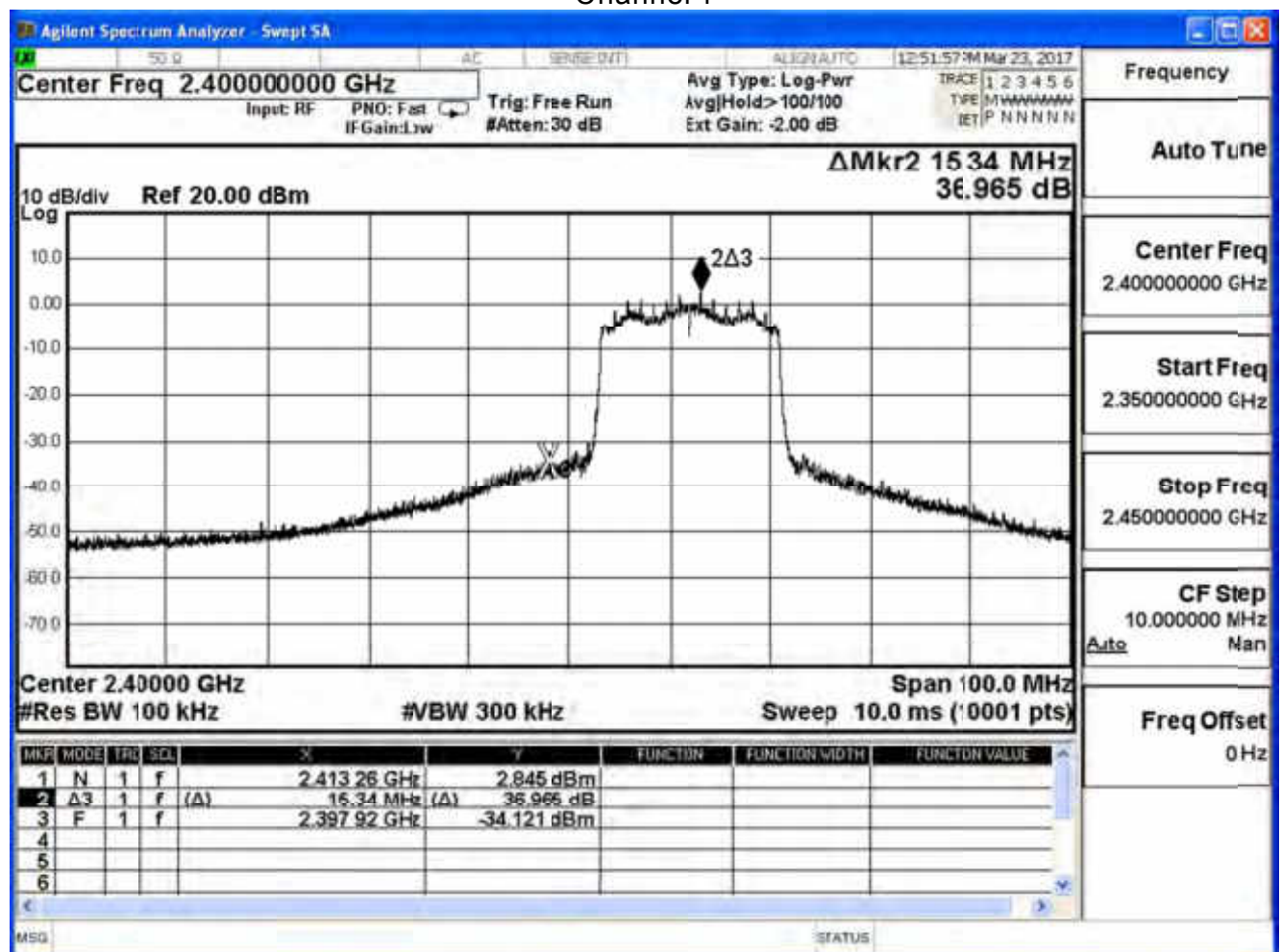
Channel 11



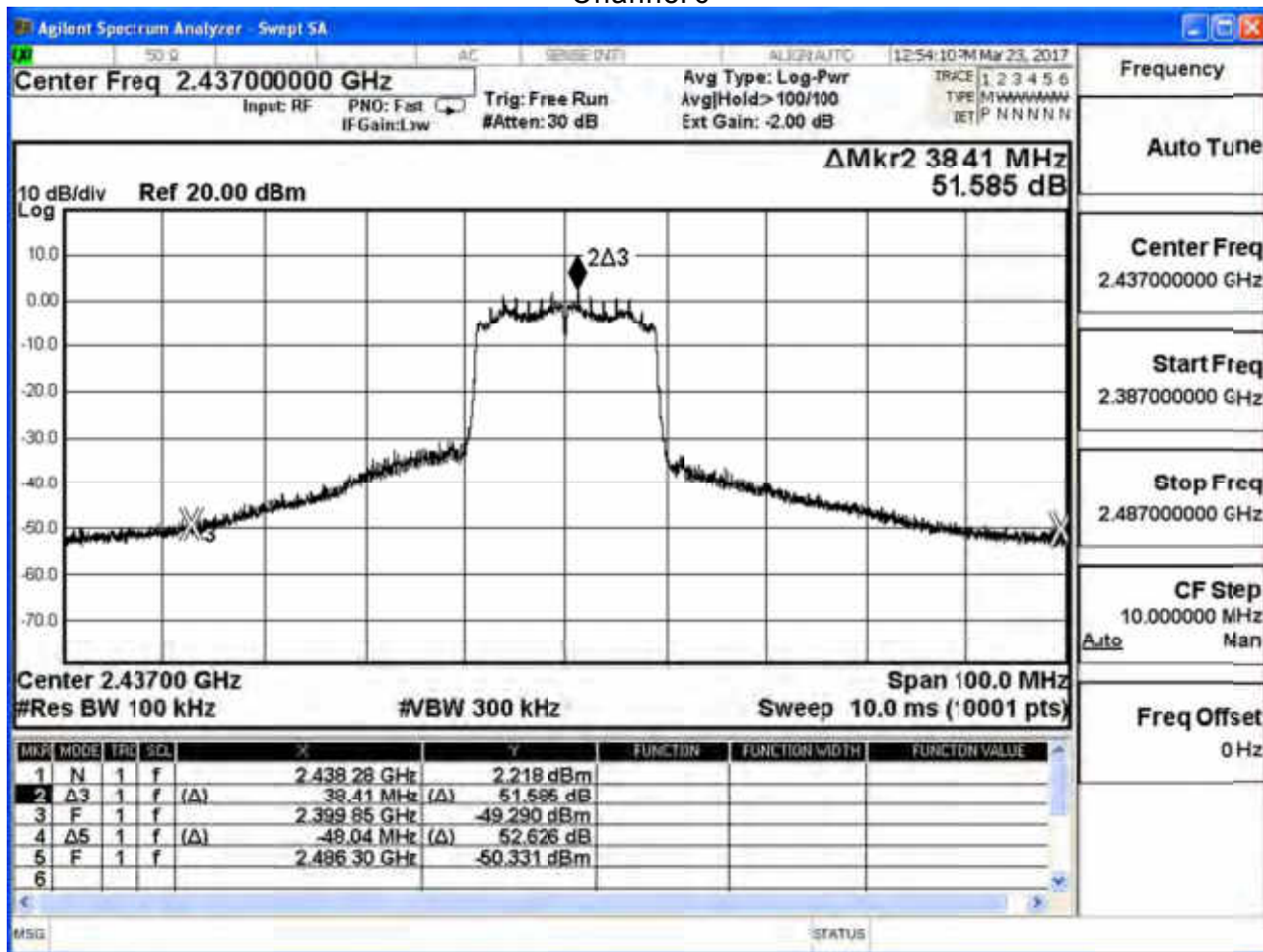
Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.965	≥ 20	Pass
6	2437	51.585	> 20	Pass
11	2462	46.291	≥ 20	Pass

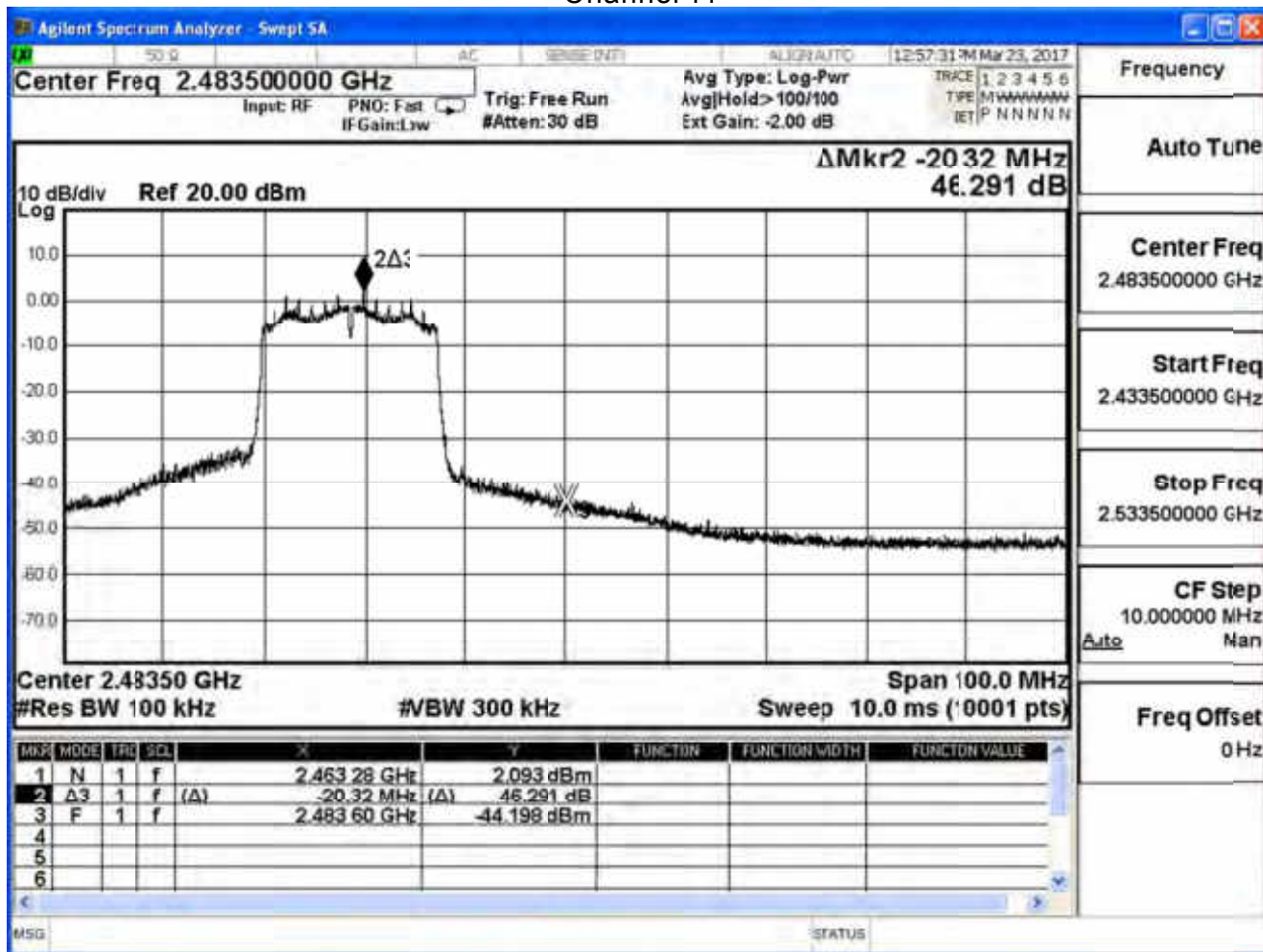
Channel 1



Channel 6



Channel 11

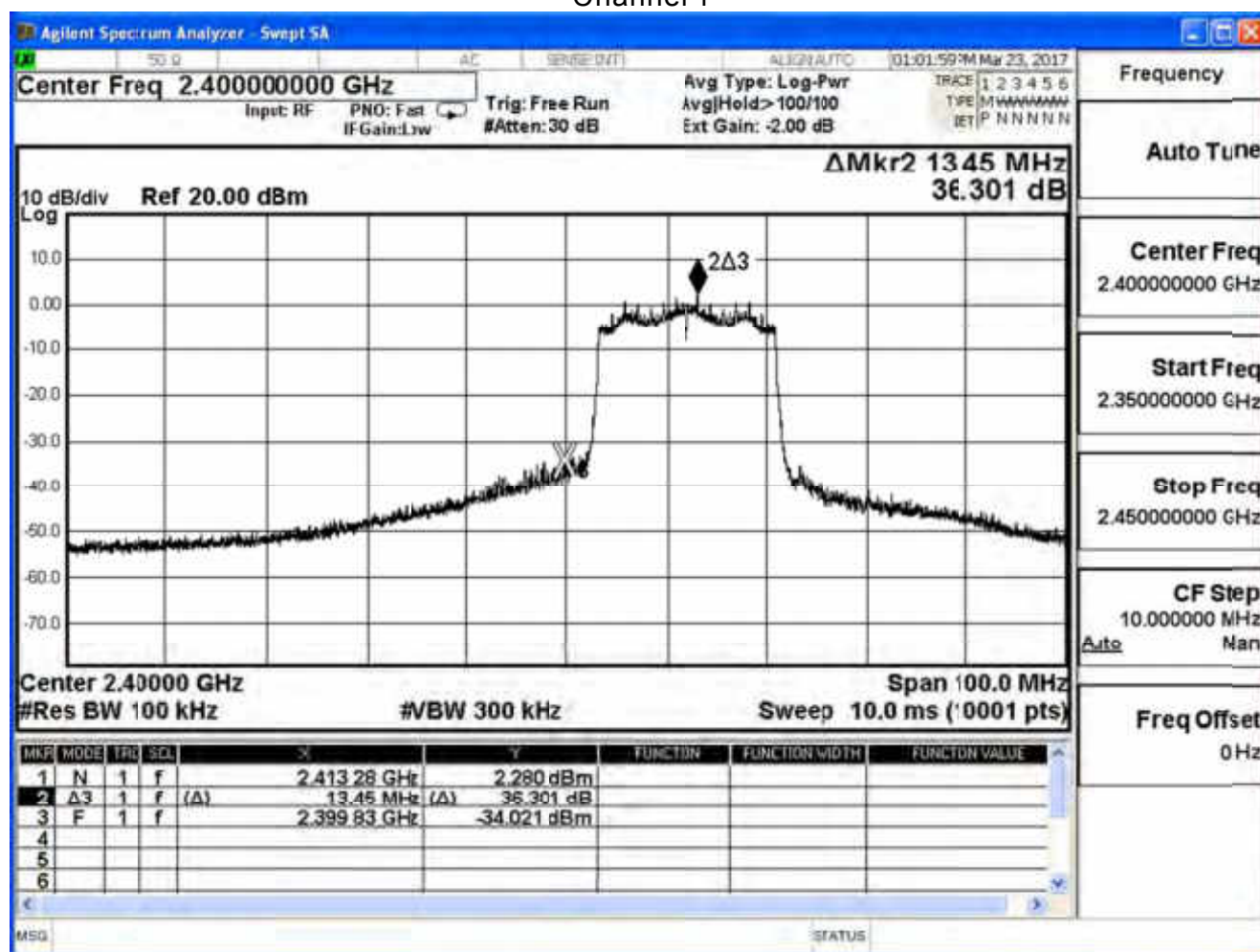


Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

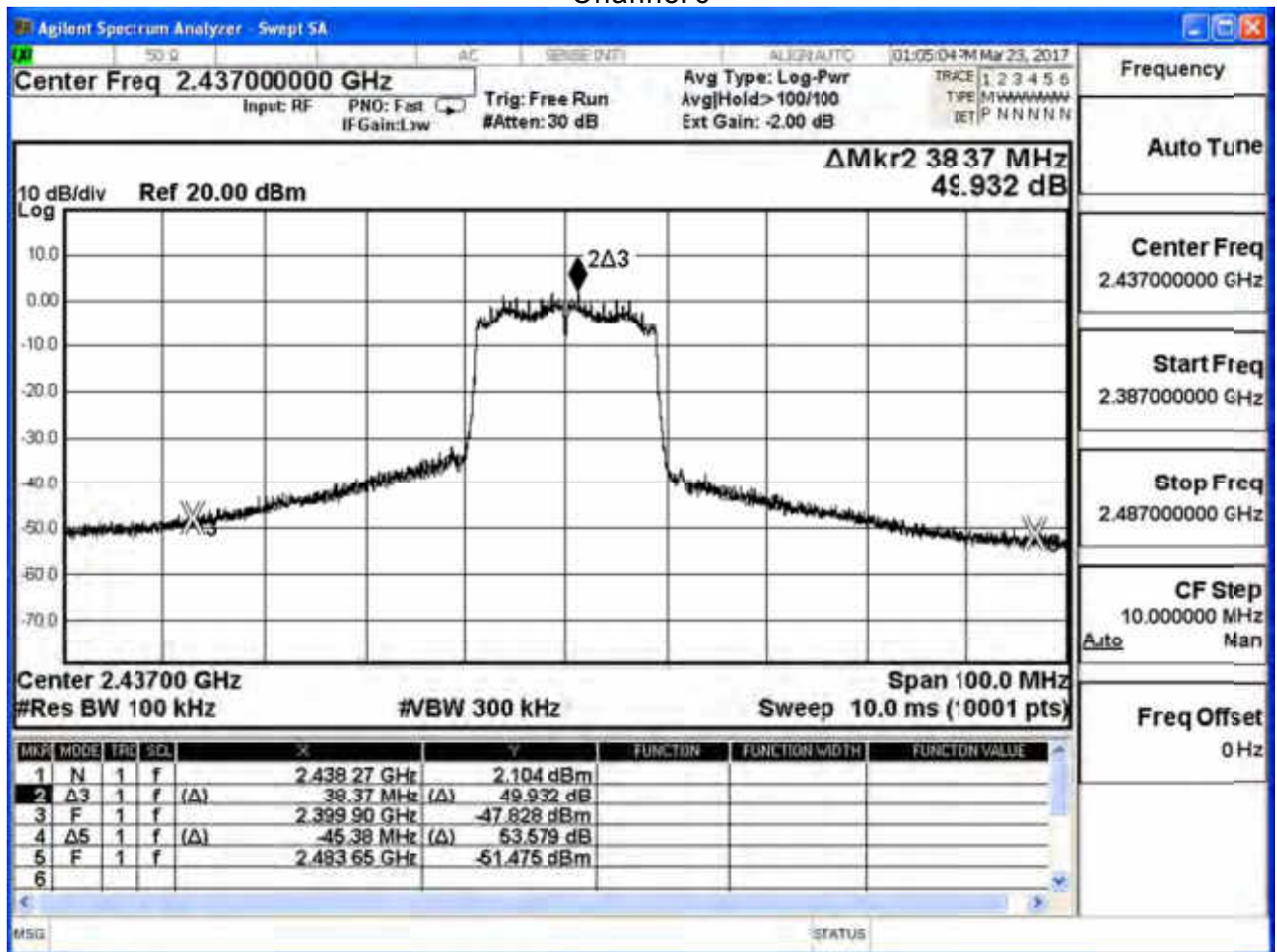
IEEE 802.11n_20M (ANT 1)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.301	≥ 20	Pass
6	2437	49.932	> 20	Pass
11	2462	45.608	≥ 20	Pass

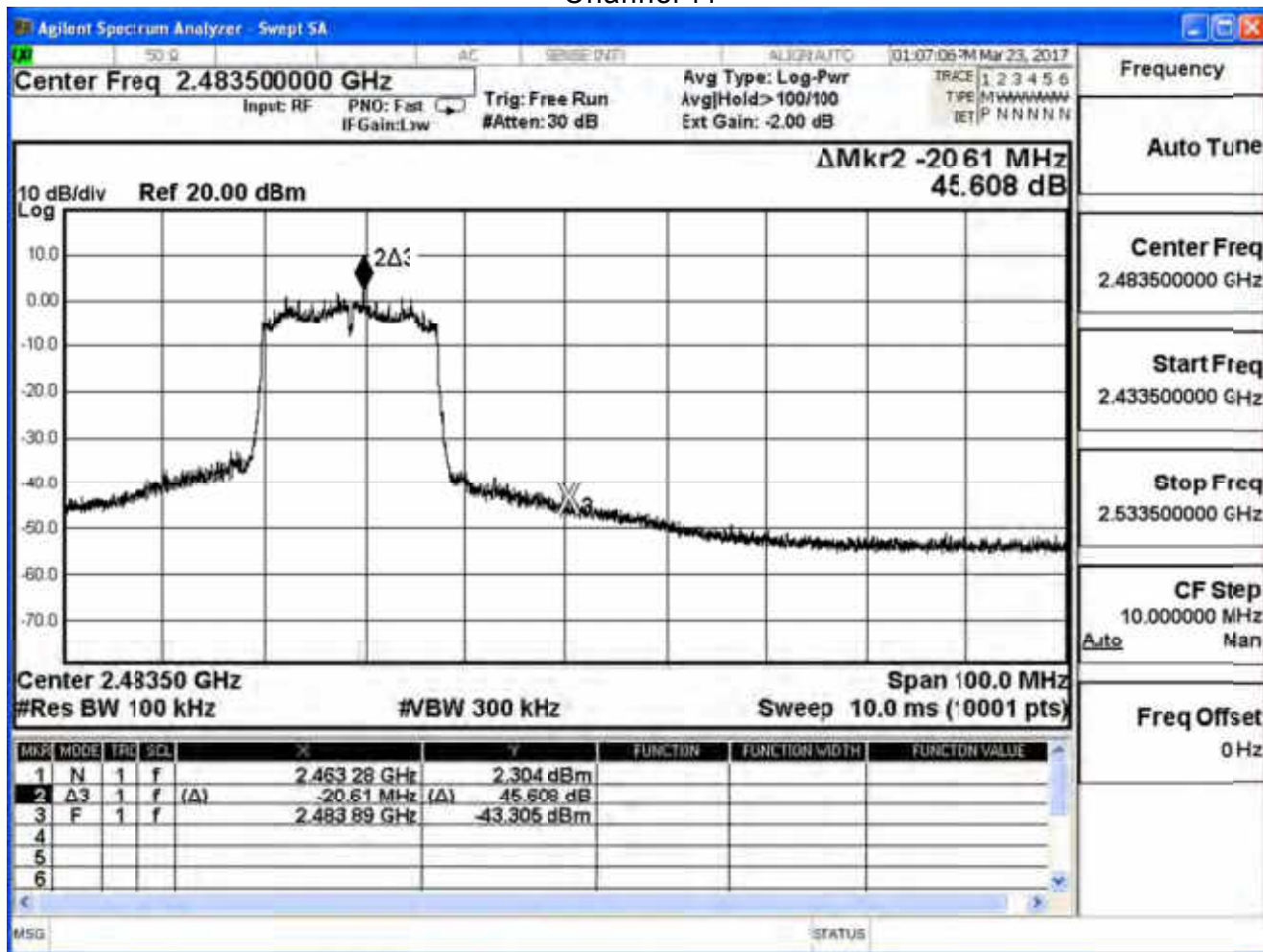
Channel 1



Channel 6



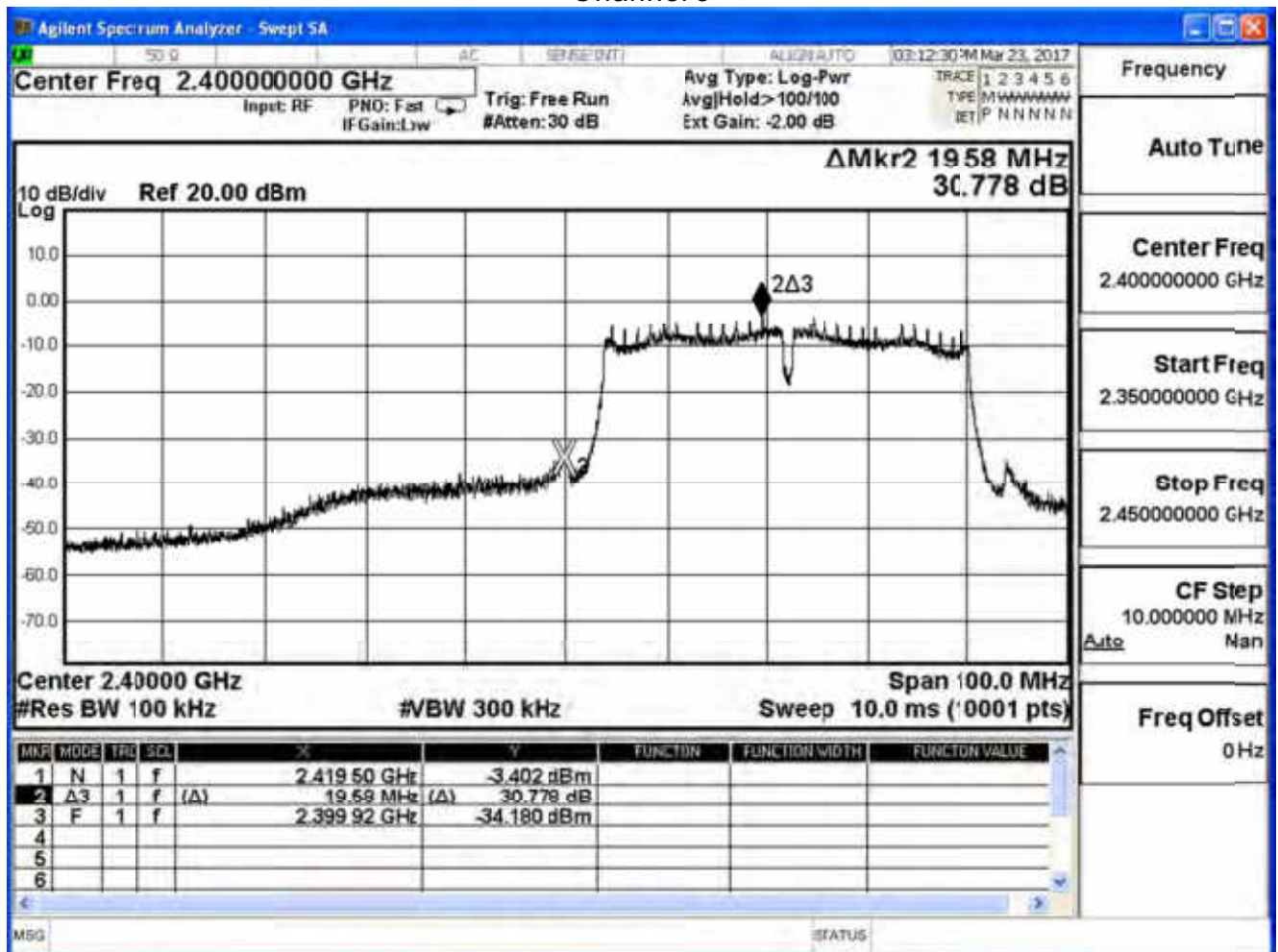
Channel 11



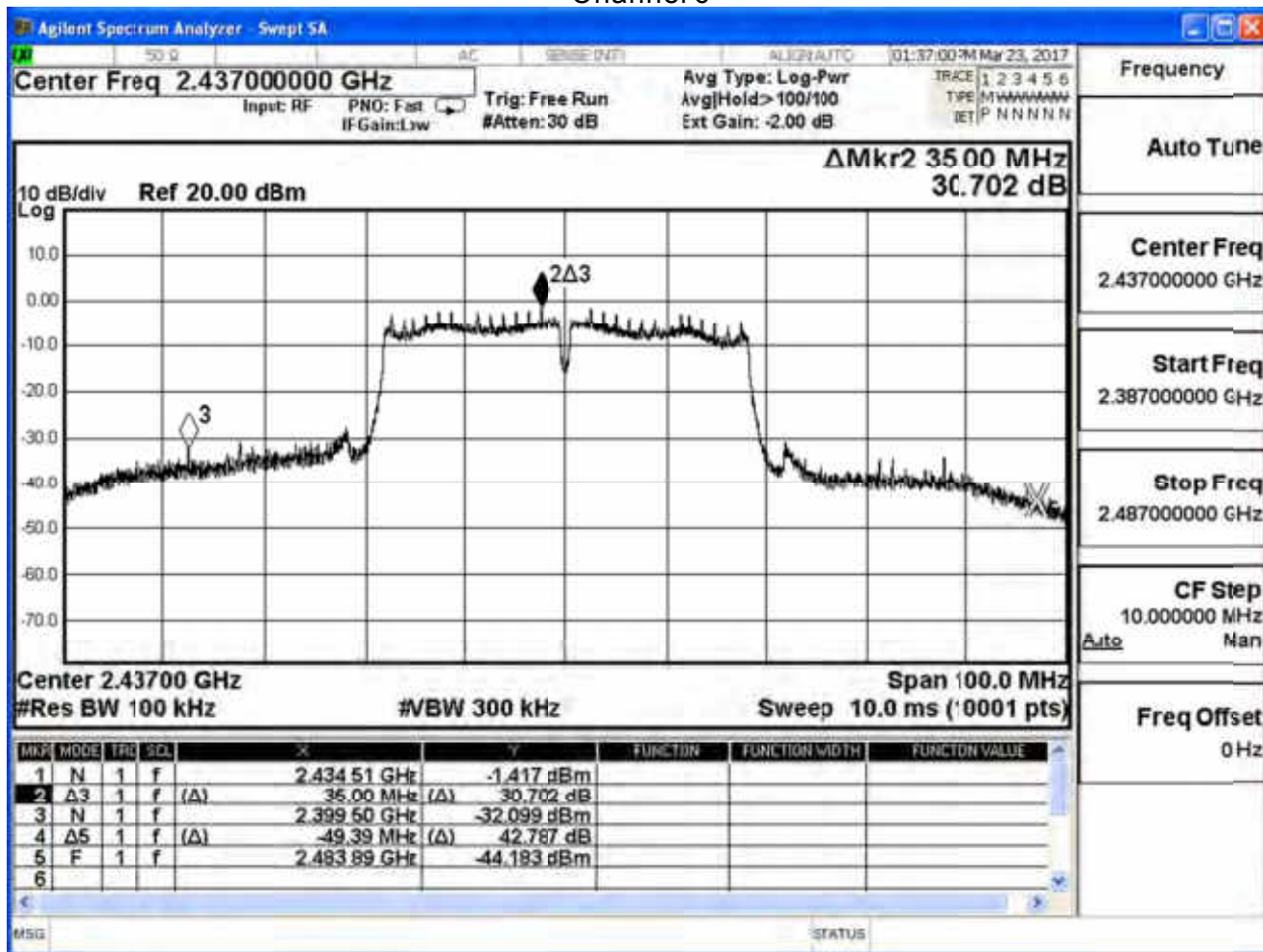
Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.778	> 20	Pass
6	2437	30.702	≥ 20	Pass
9	2452	35.655	≥ 20	Pass

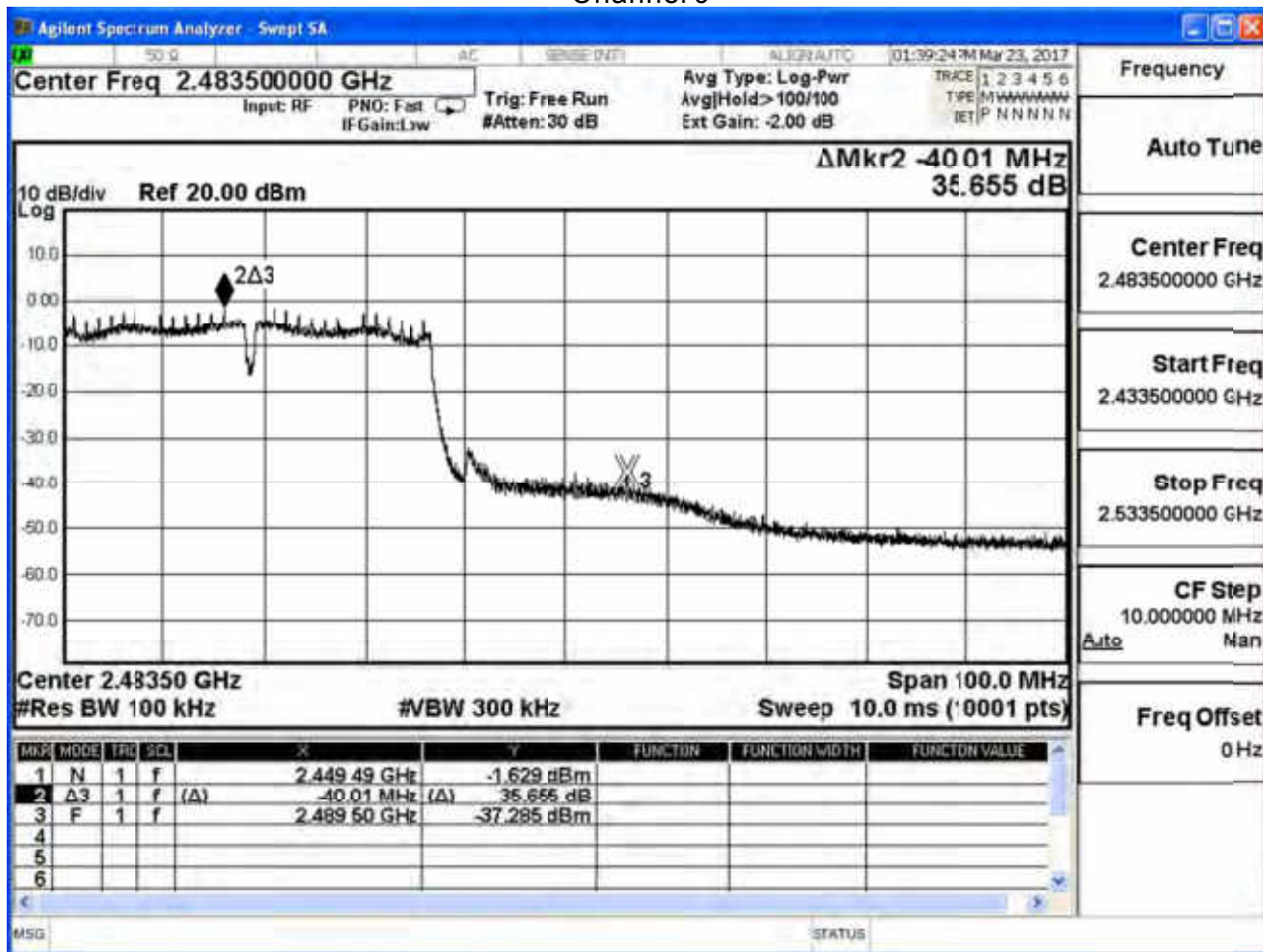
Channel 3



Channel 6



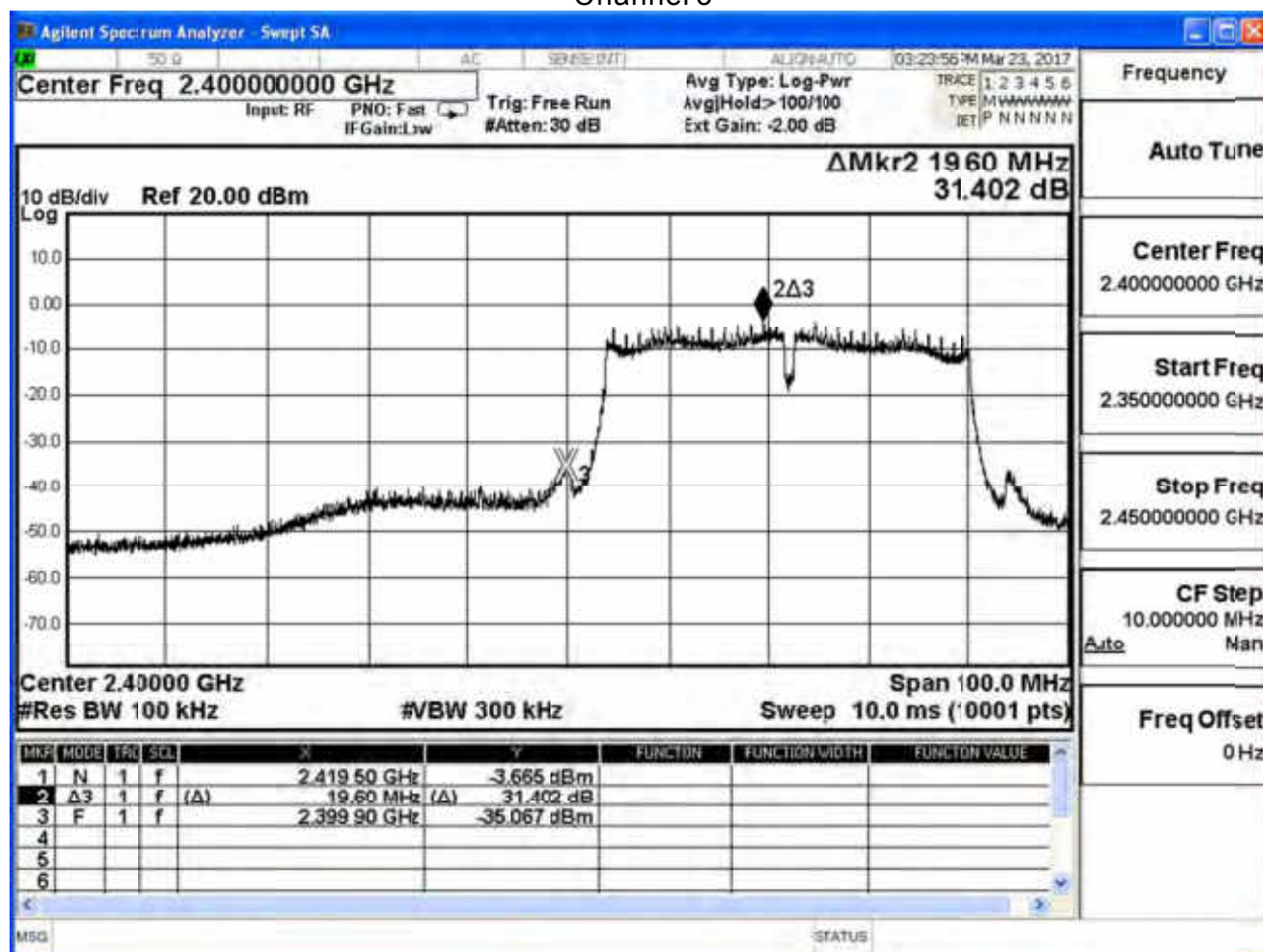
Channel 9



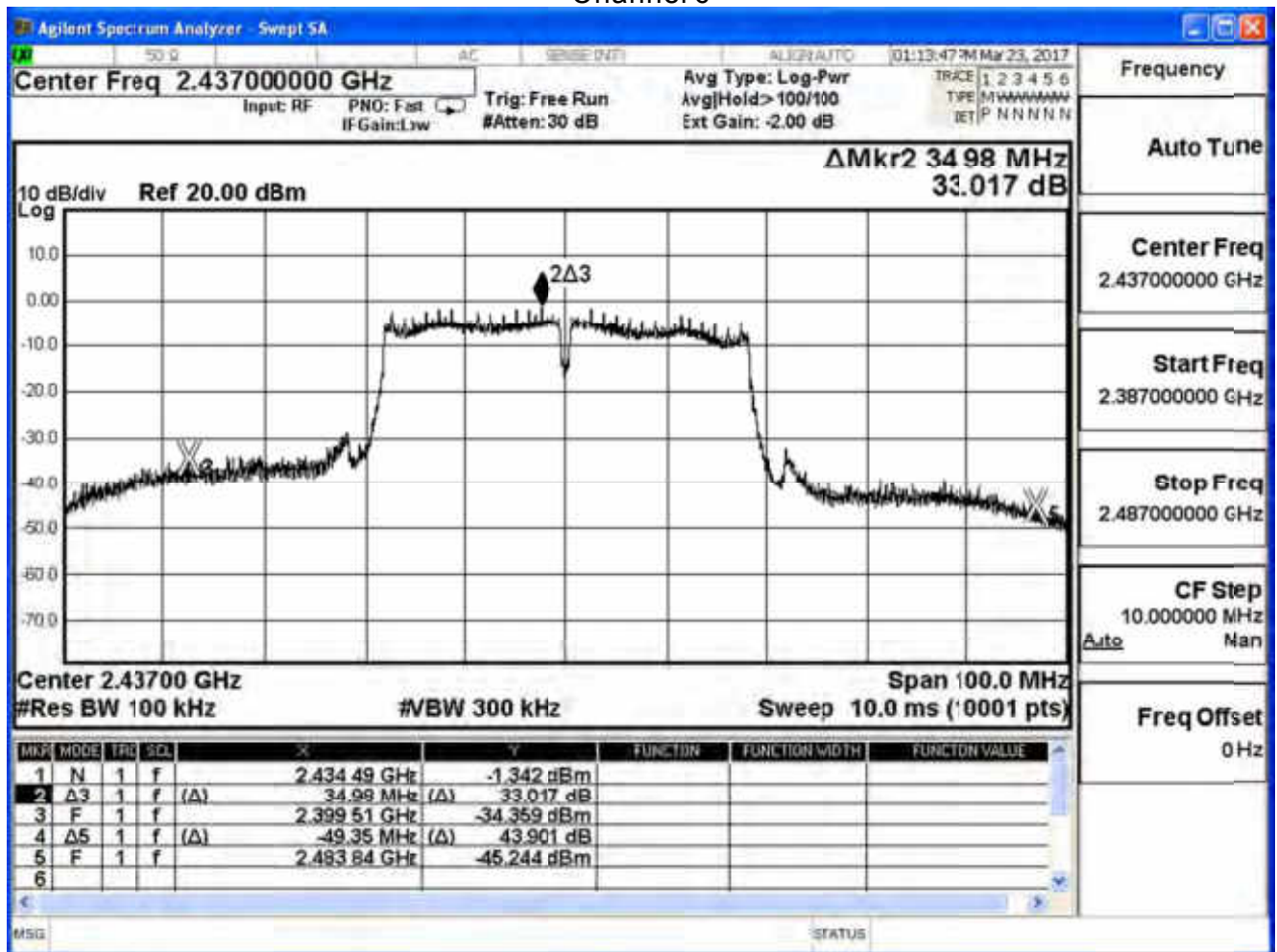
Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	31.402	≥ 20	Pass
6	2437	33.017	> 20	Pass
9	2452	36.905	≥ 20	Pass

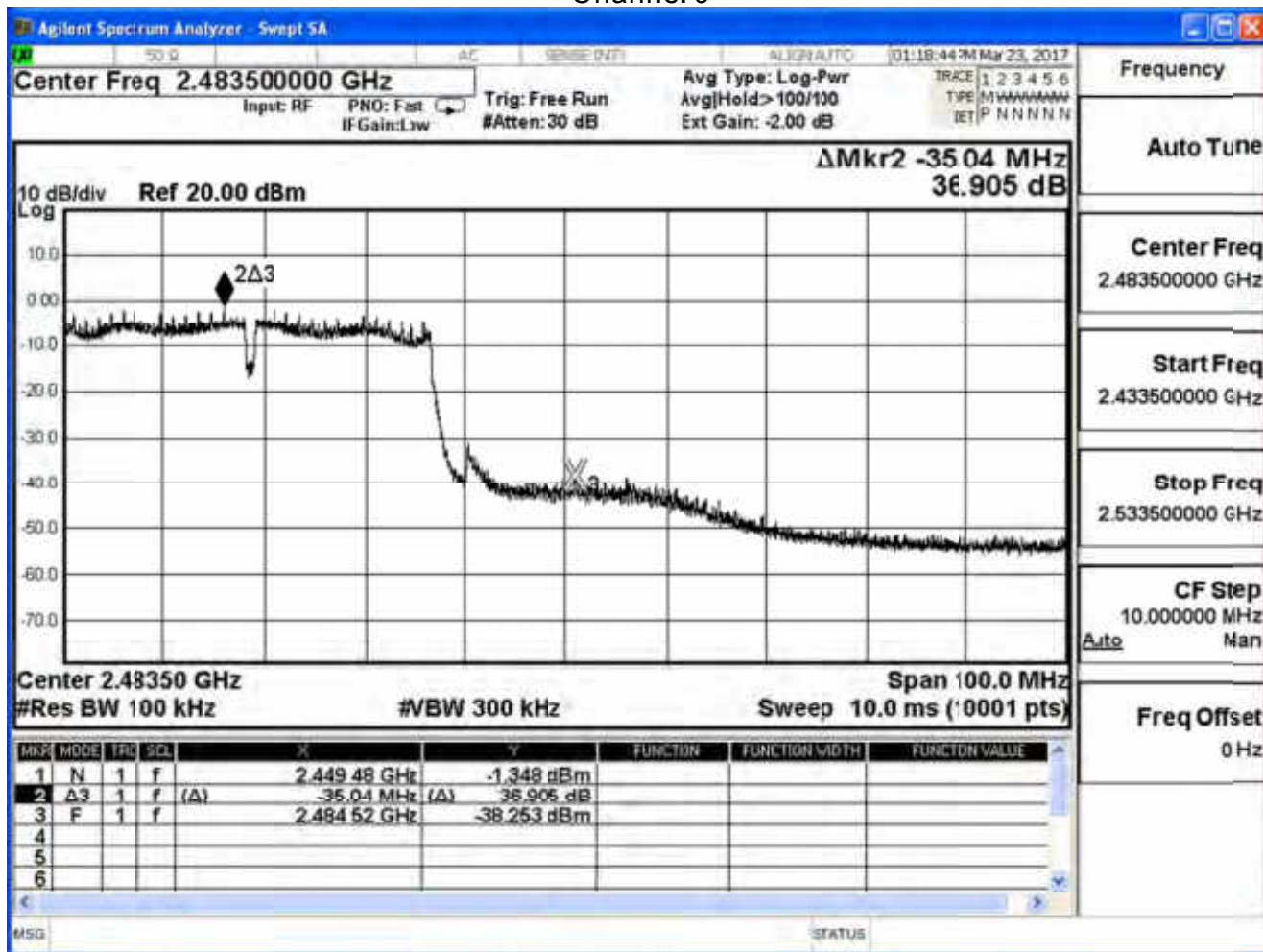
Channel 3



Channel 6

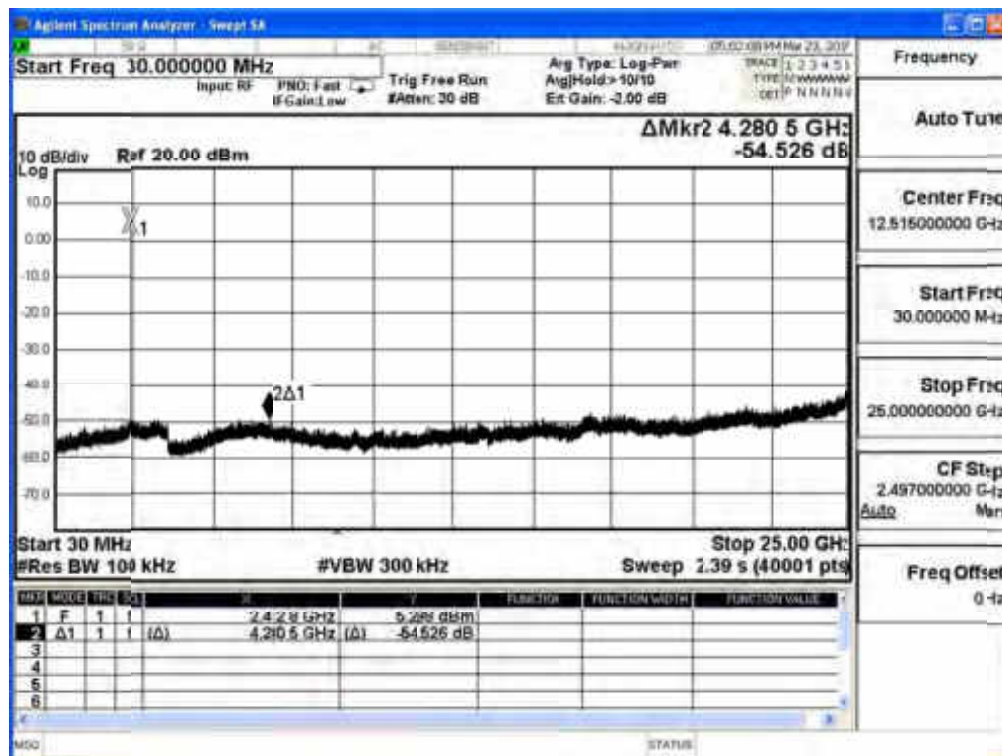


Channel 9

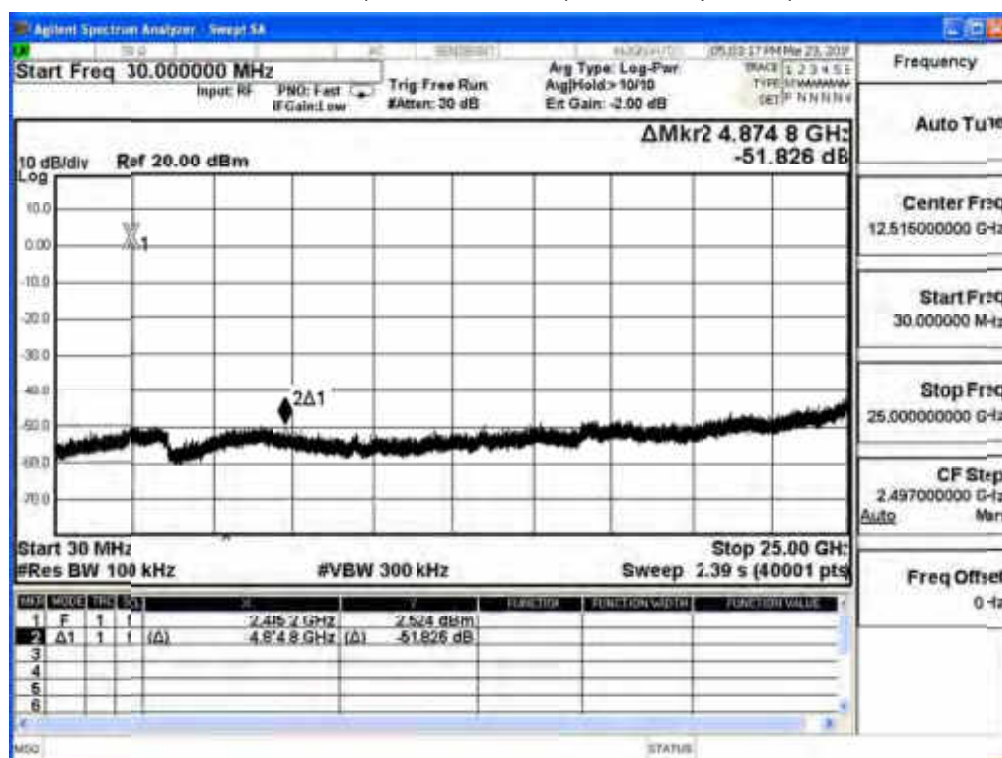


Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

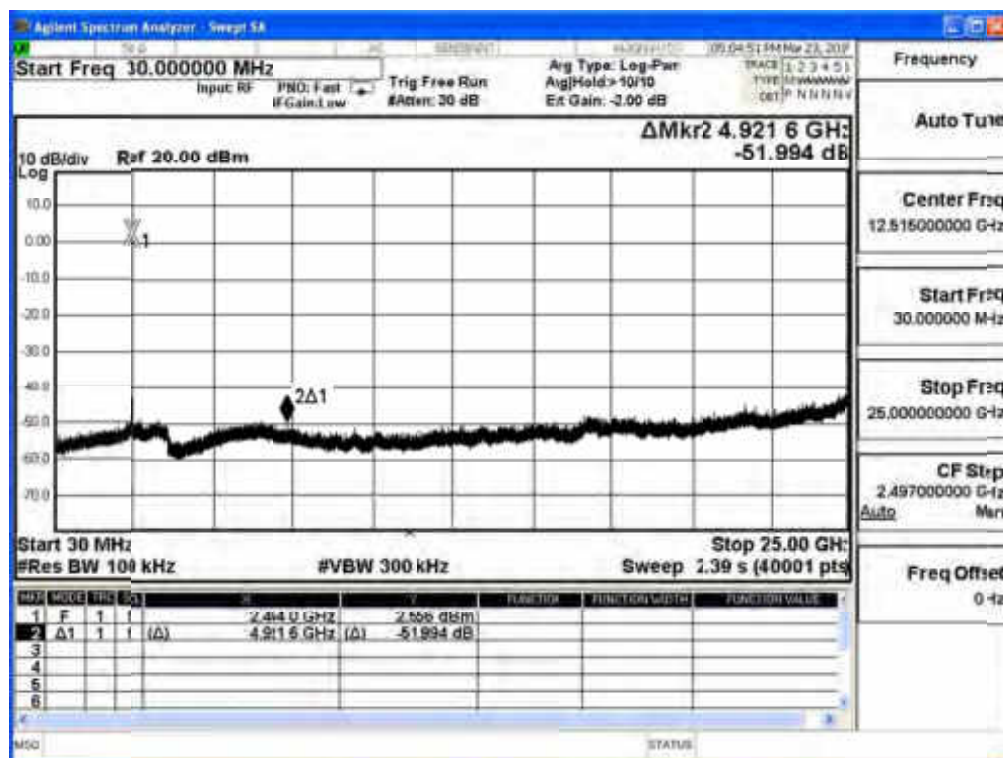
2412MHz (30MHz-25GHz)-802.11b (ANT 0)



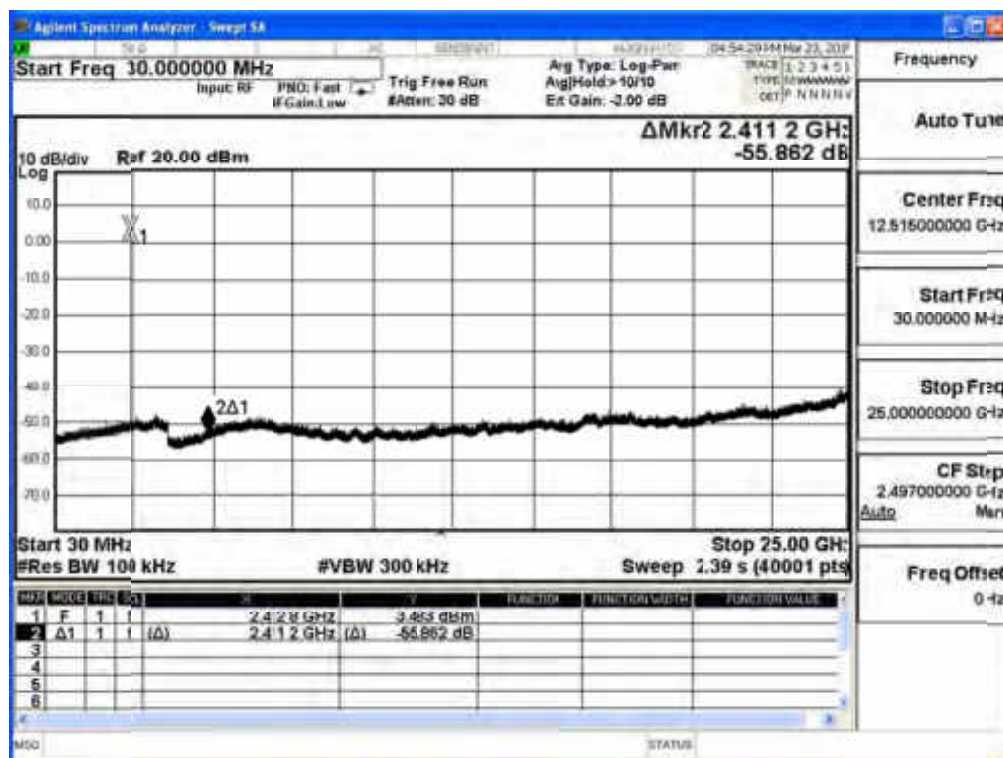
2437MHz (30MHz-25GHz)-802.11b (ANT 0)



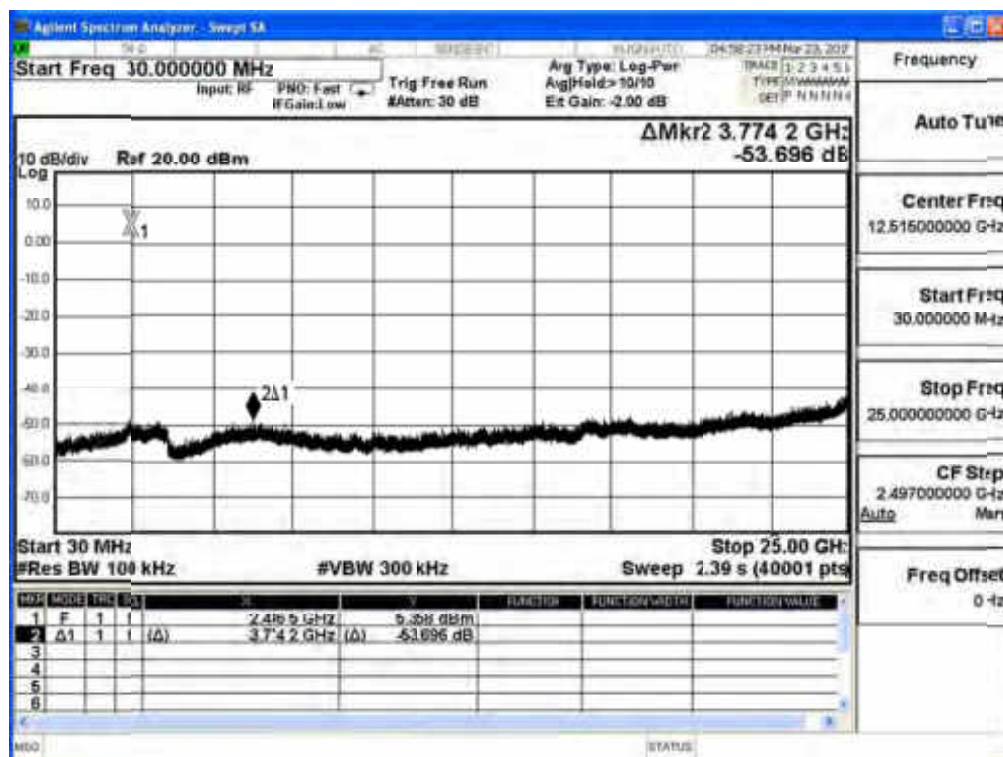
2462MHz (30MHz-25GHz)-802.11b (ANT 0)



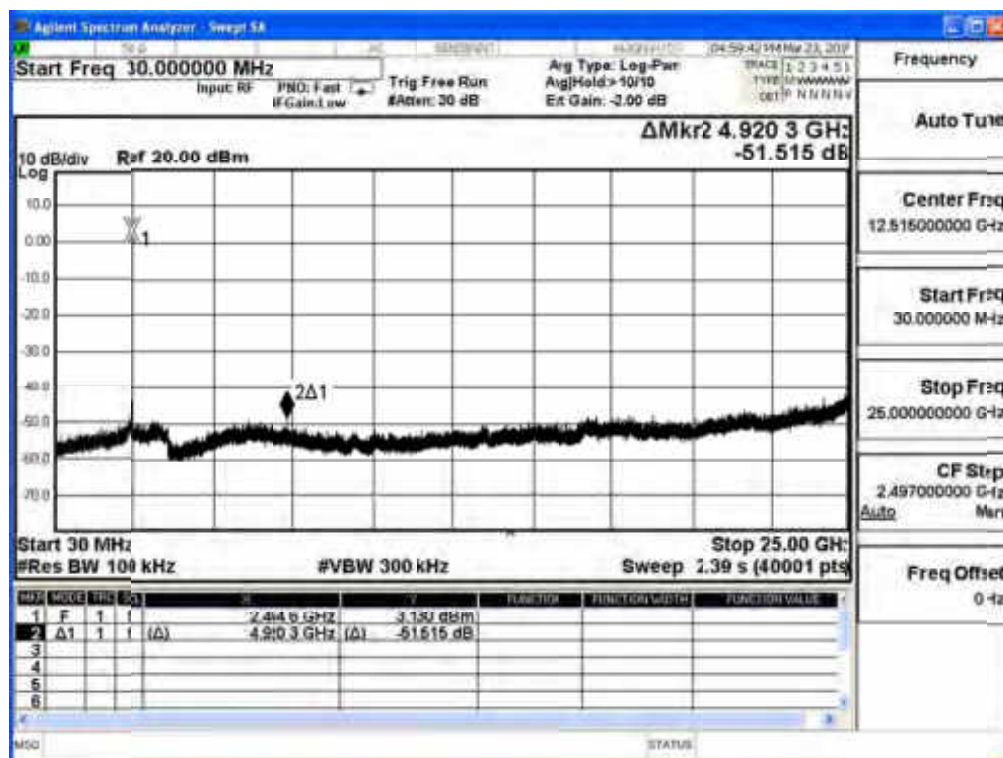
2412MHz (30MHz-25GHz)-802.11b (ANT 1)



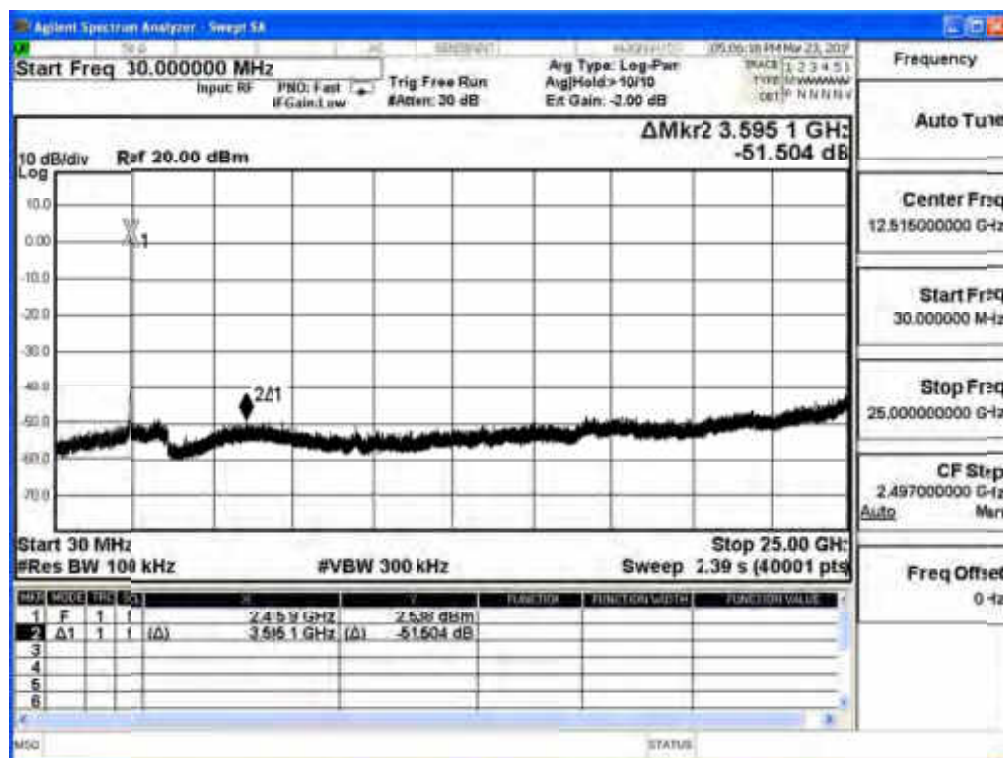
2437MHz (30MHz-25GHz)-802.11b (ANT 1)



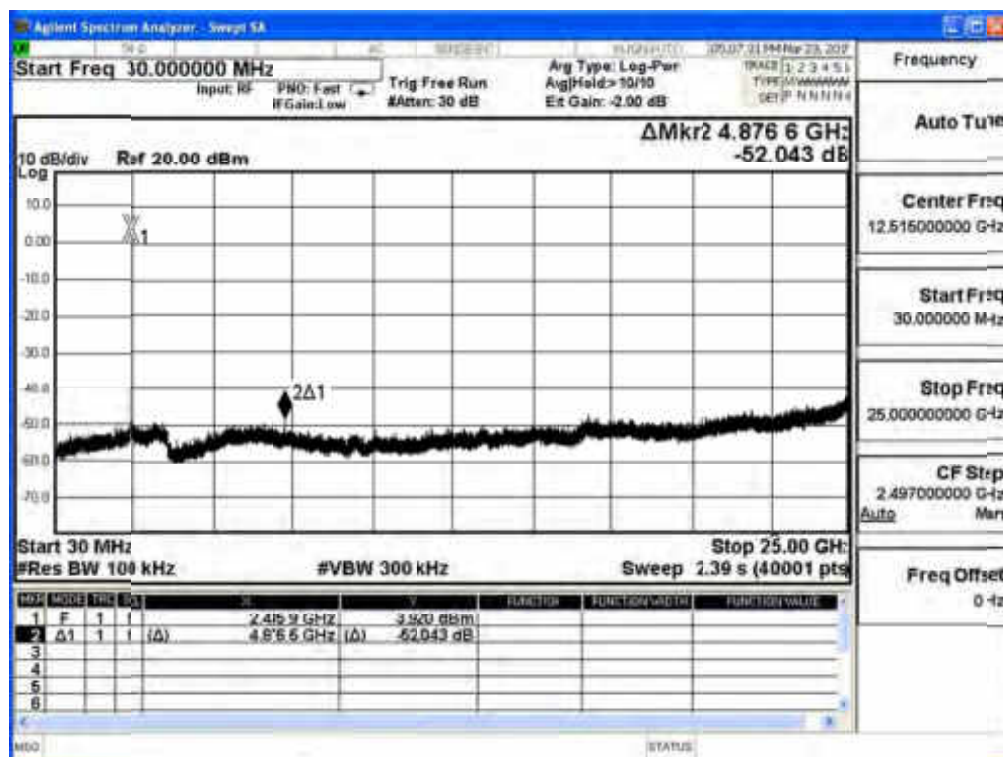
2462MHz (30MHz-25GHz)-802.11b (ANT 1)



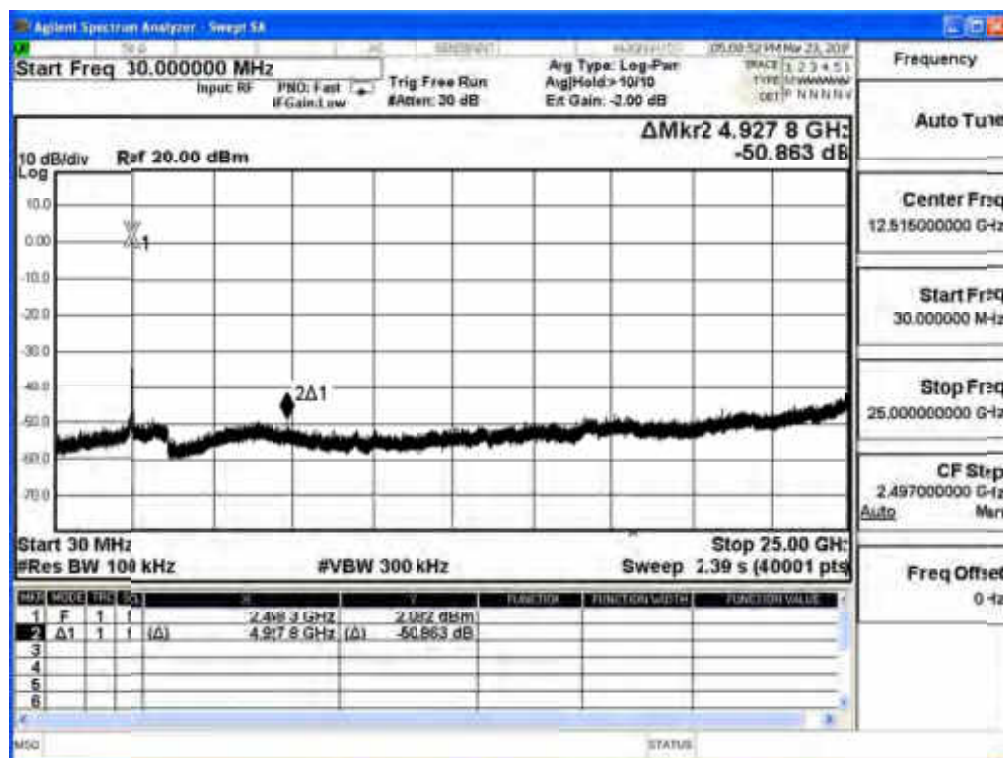
2412MHz (30MHz-25GHz)-802.11g (ANT 0)



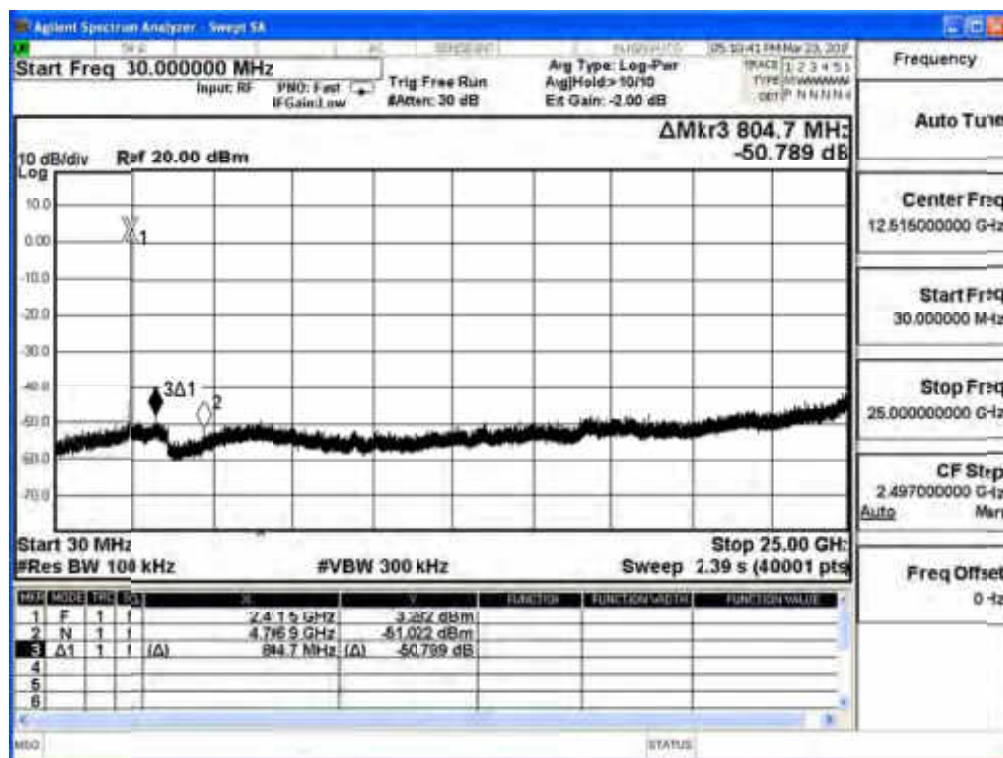
2437MHz (30MHz-25GHz)-802.11 g (ANT 0)



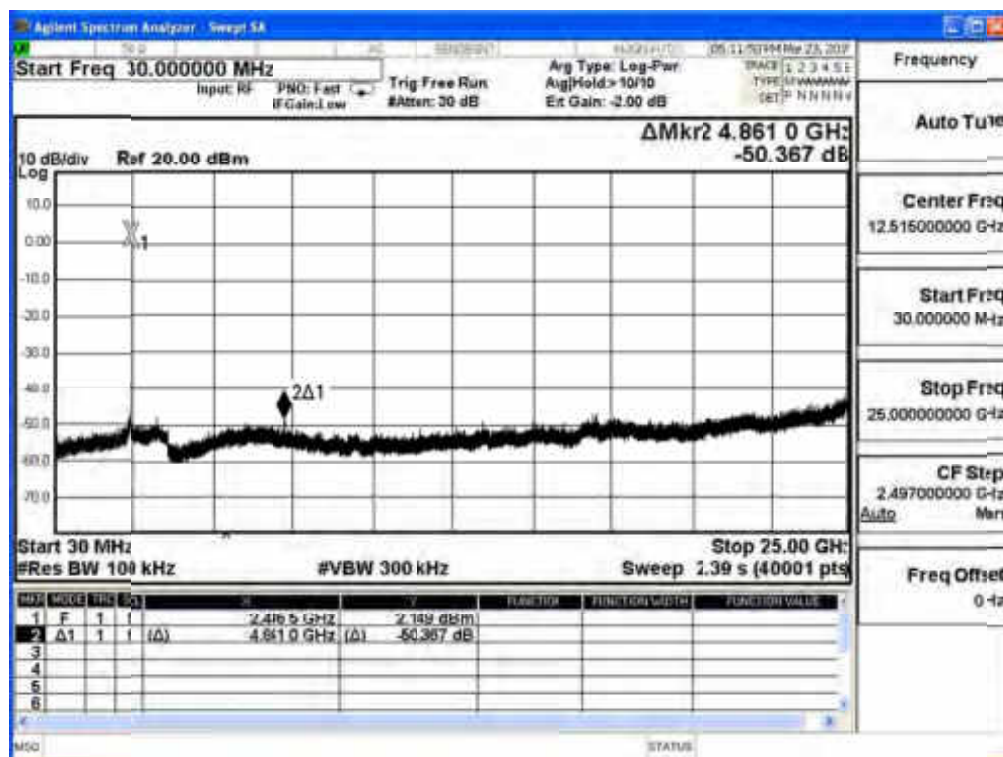
2462MHz (30MHz-25GHz)-802.11g (ANT 0)



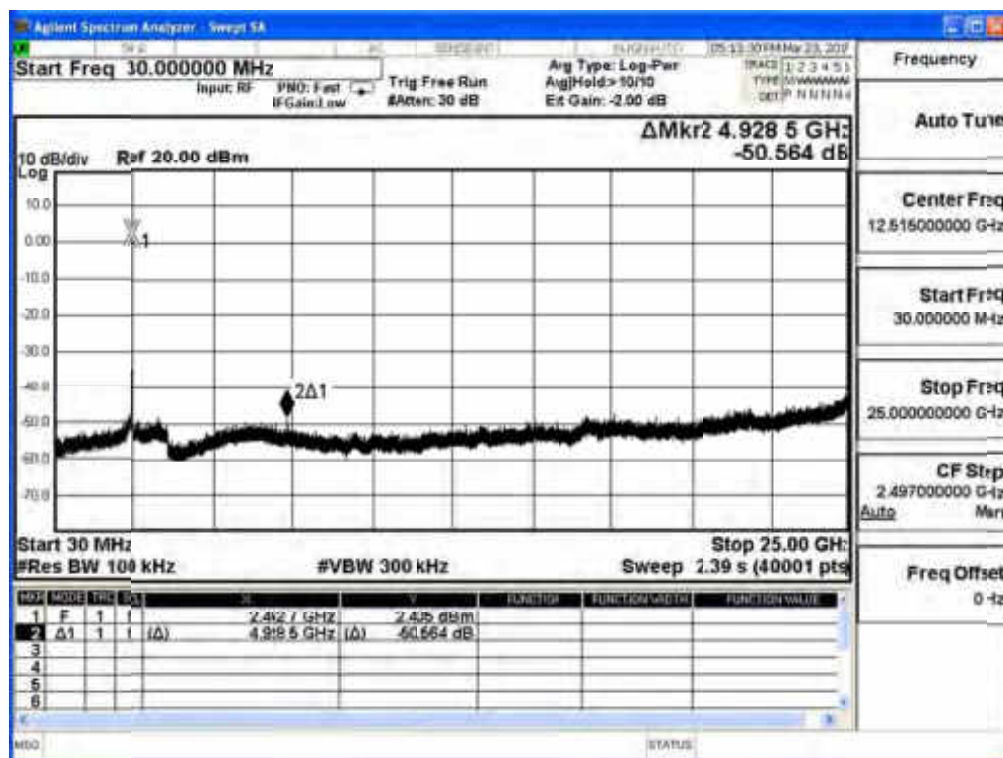
2412MHz (30MHz-25GHz)-802.11g (ANT 1)



2437MHz (30MHz-25GHz)-802.11 g (ANT 1)



2462MHz (30MHz-25GHz)-802.11g (ANT 1)

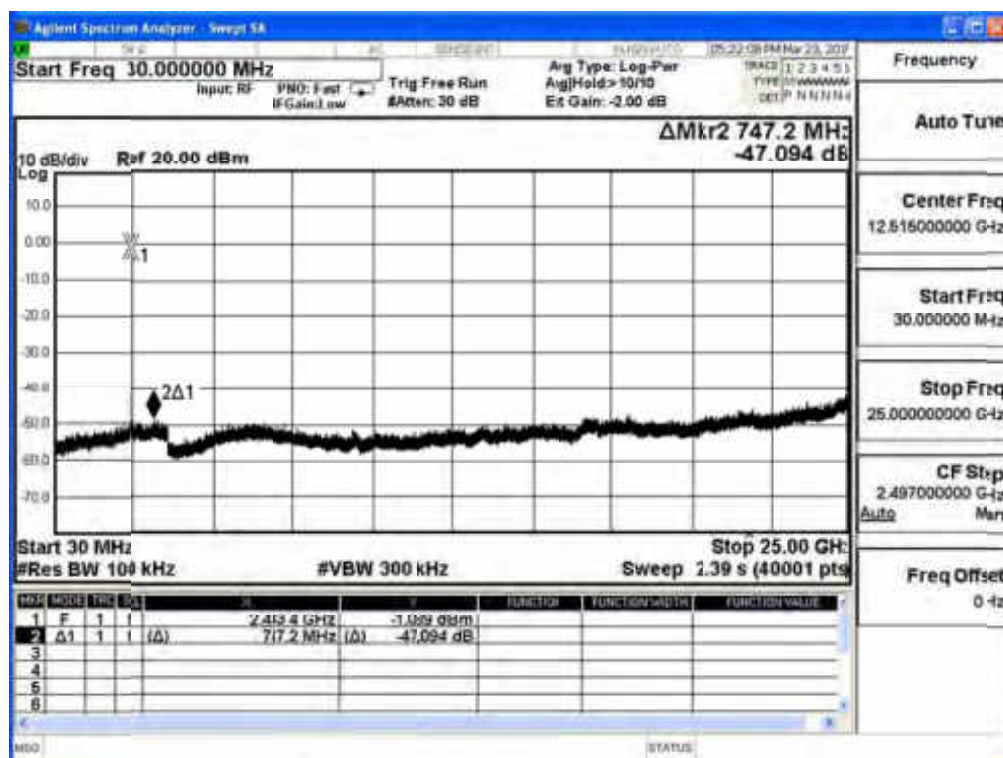


Product	UHD651-L		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Tx_ MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

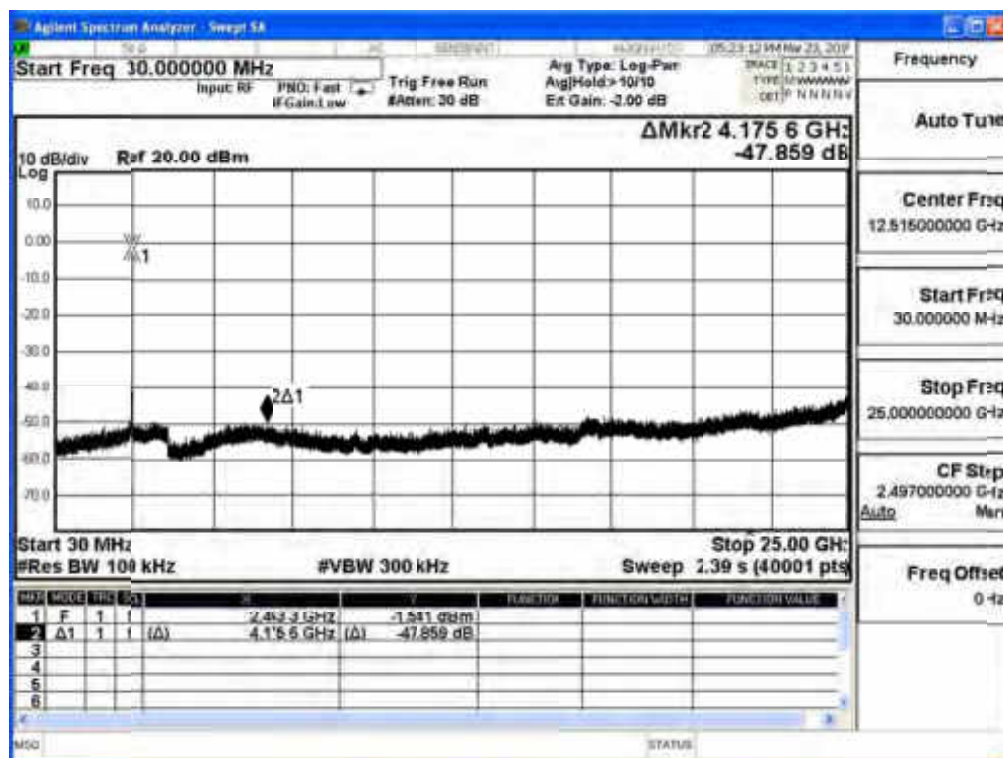
2412MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



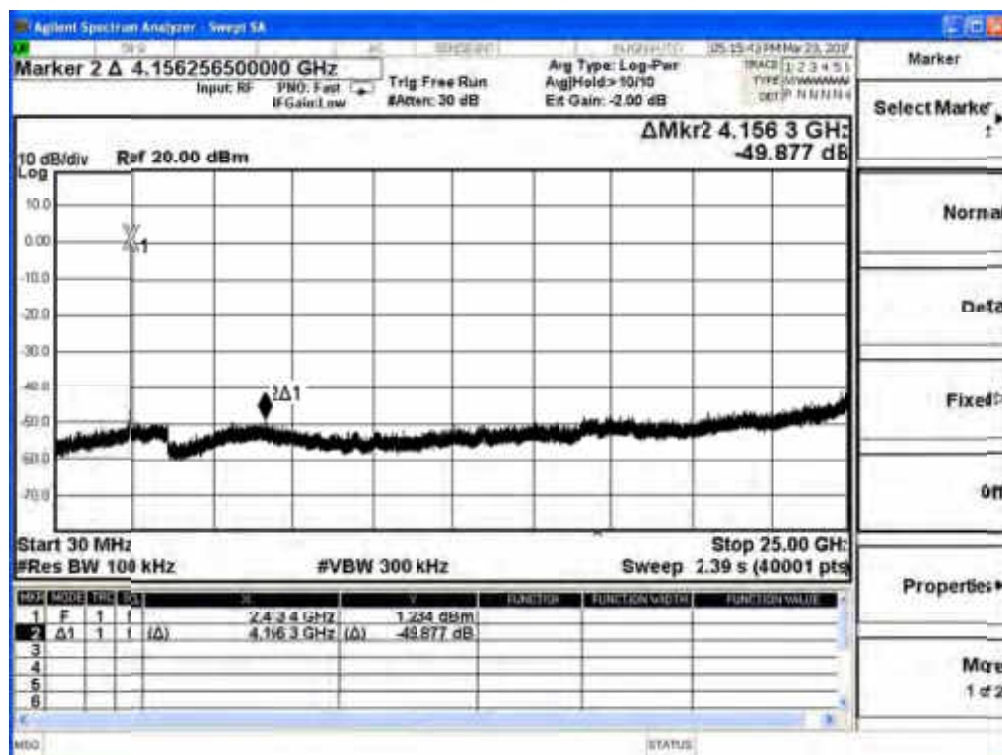
2437MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



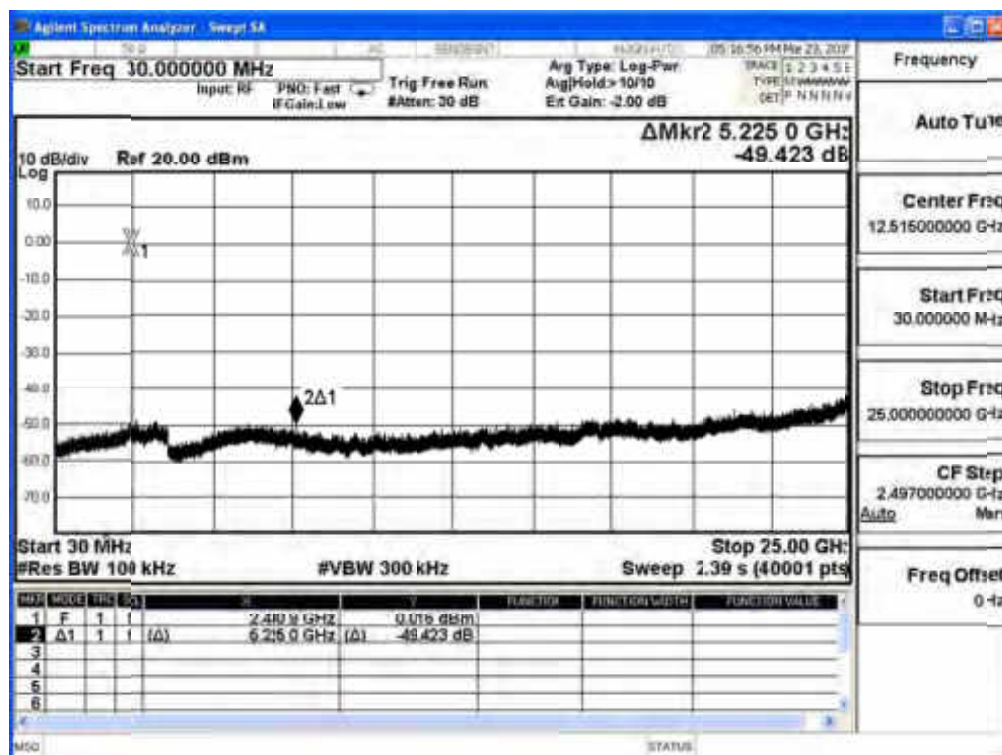
2462MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



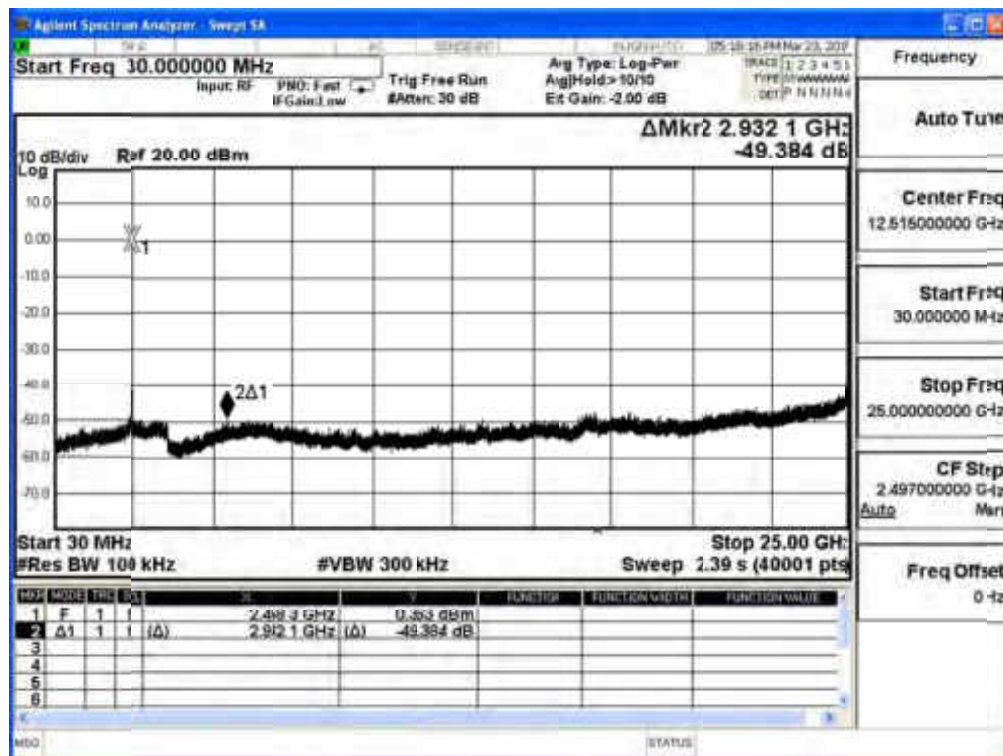
2412MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



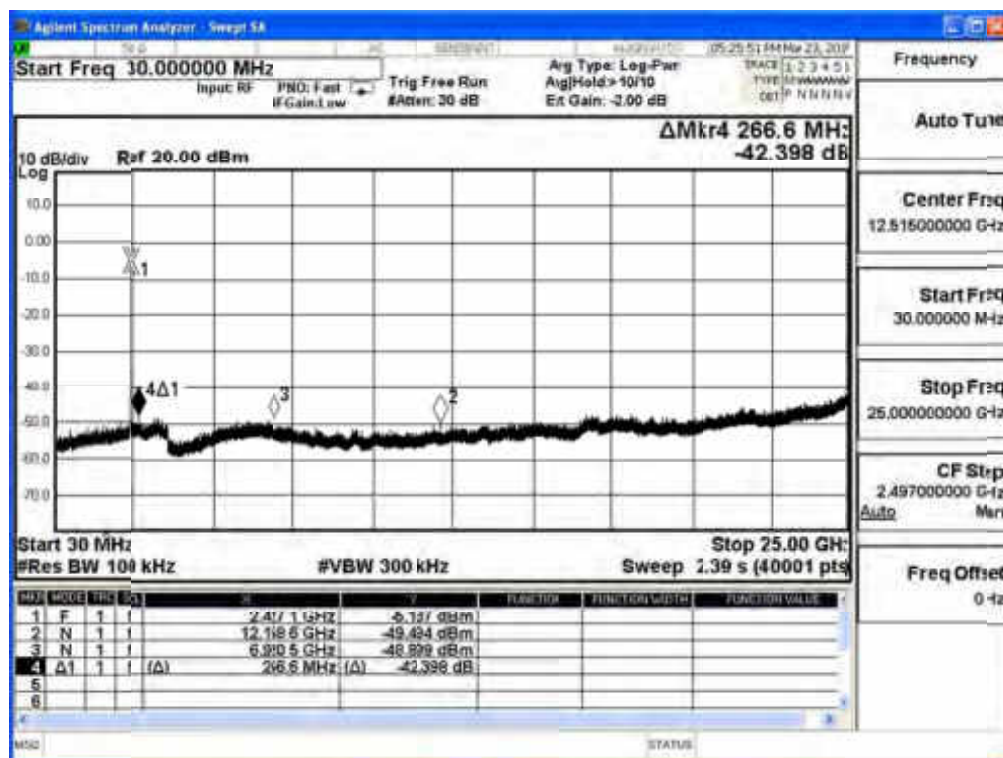
2437MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



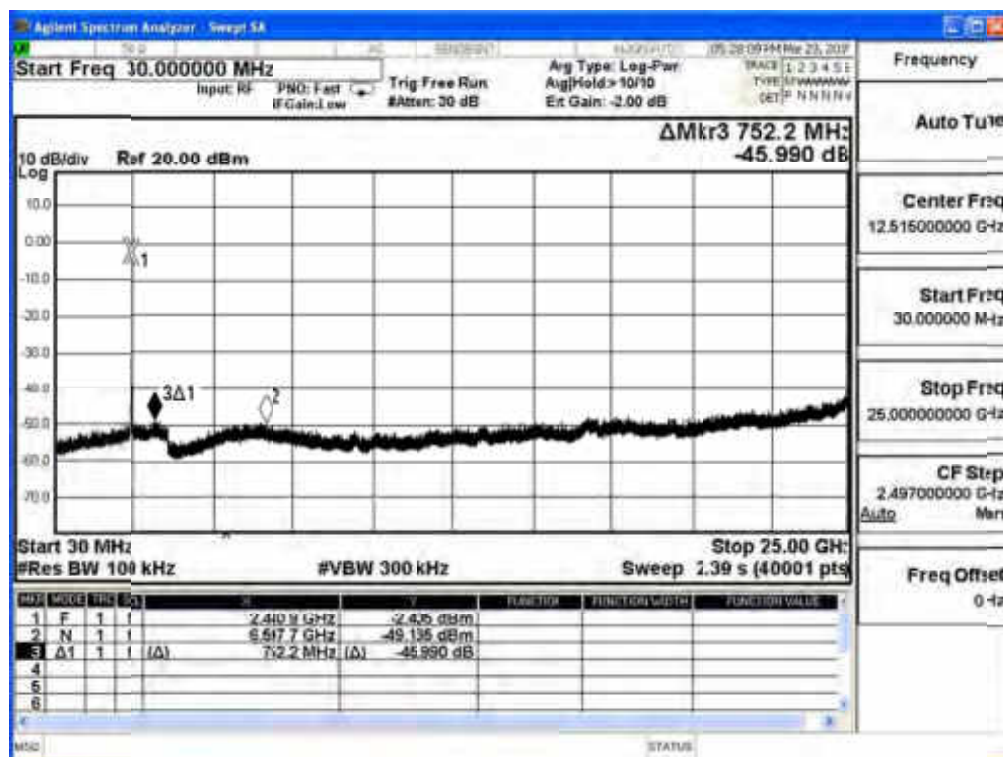
2462MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



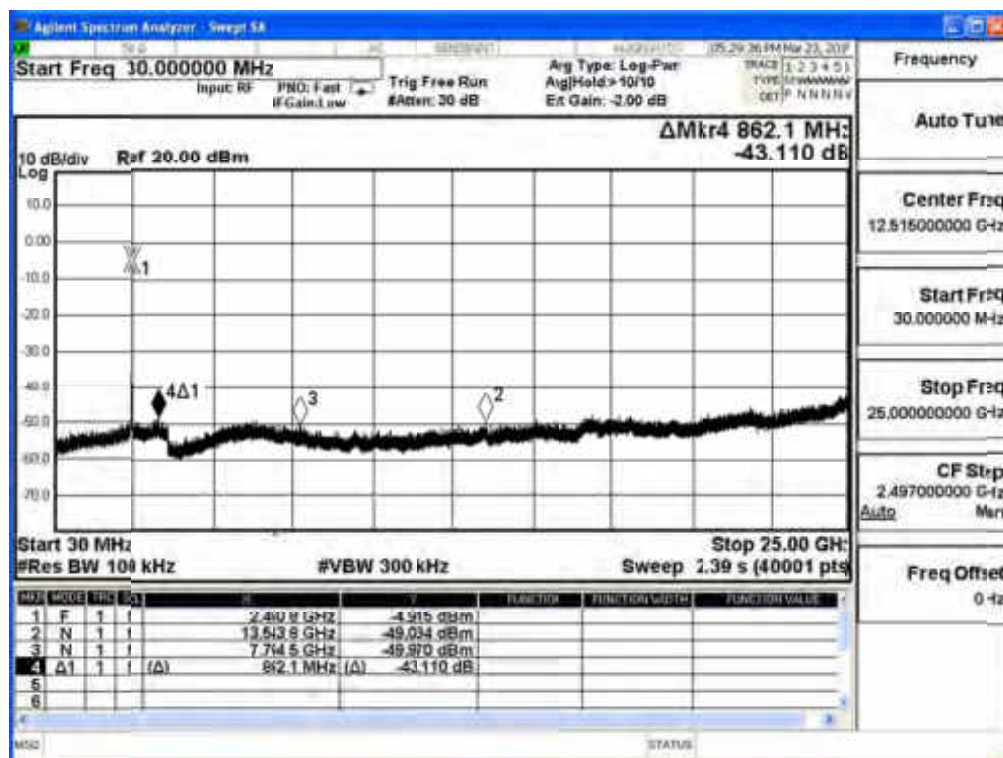
2422MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



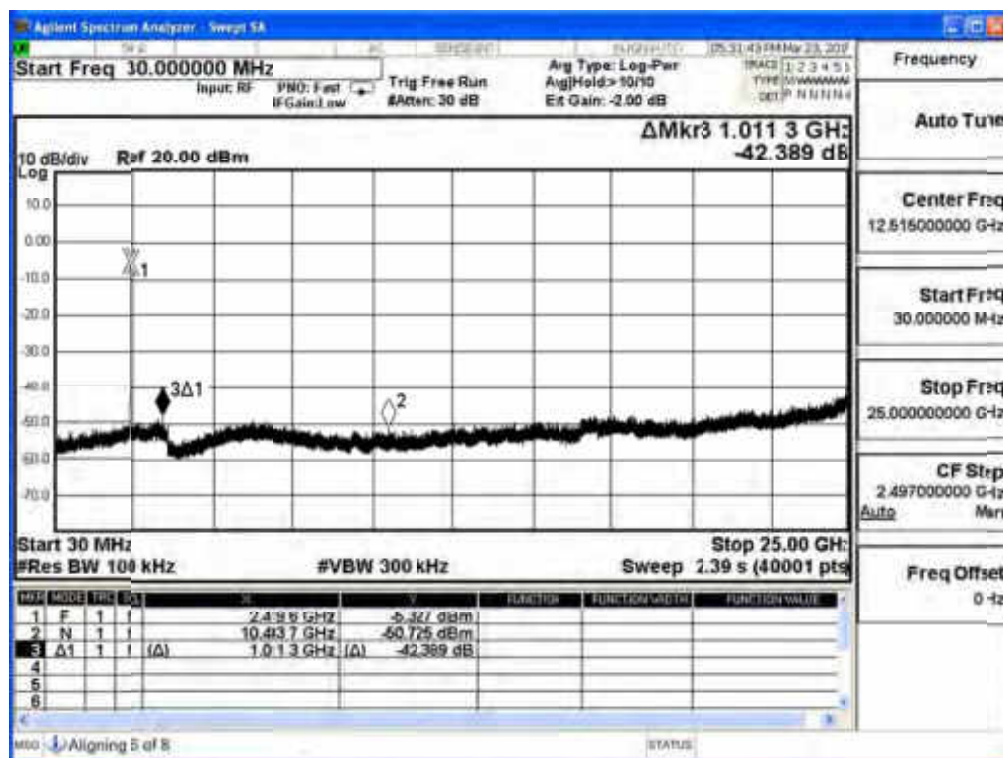
2437MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



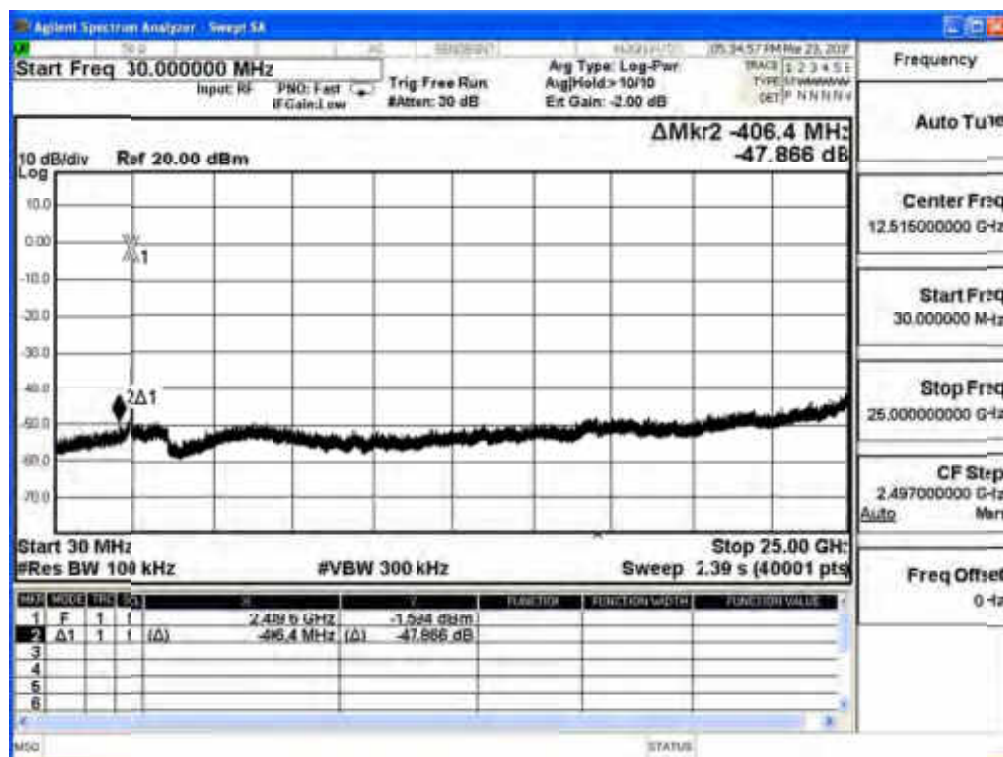
2452MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



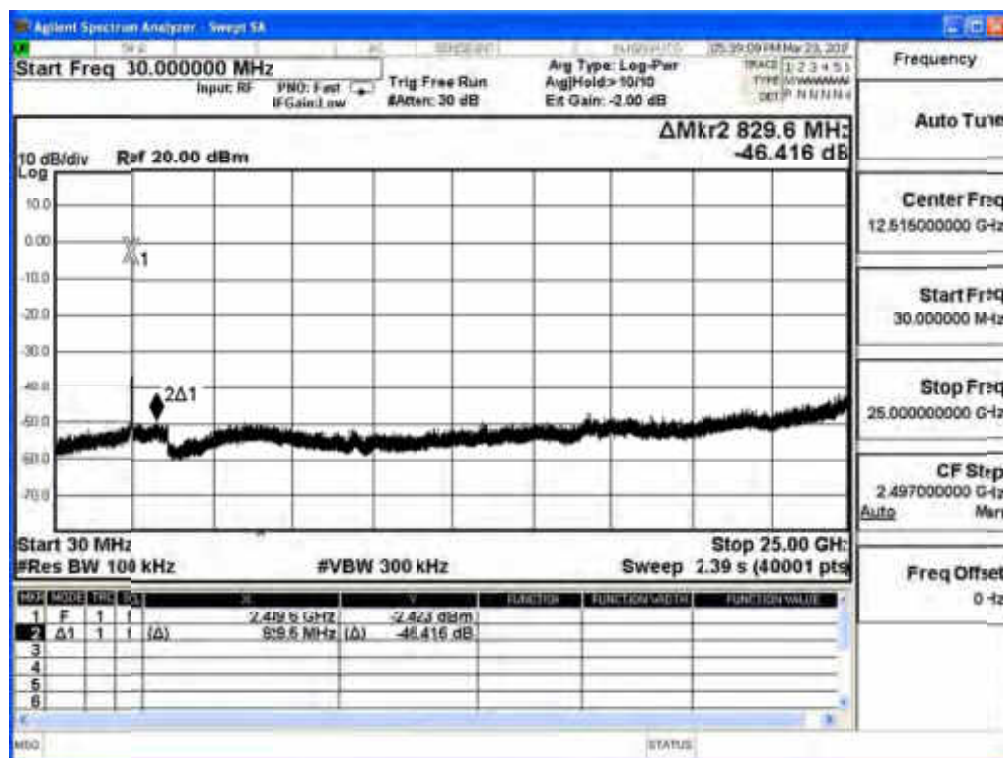
2422MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)



2437MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)



2452MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)



6. Band Edge

6.1. Test Equipment

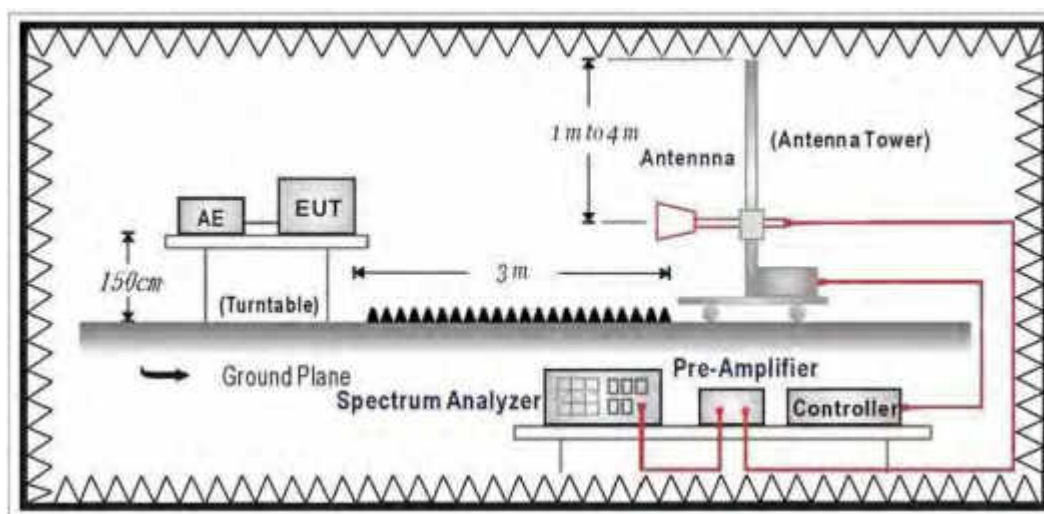
The following test equipments are used during the test:

Band Edge / CB4-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Horn Antenna	Schwarzbeck	BBHA 9120	D312	2017/10/25
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/05

Note: All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

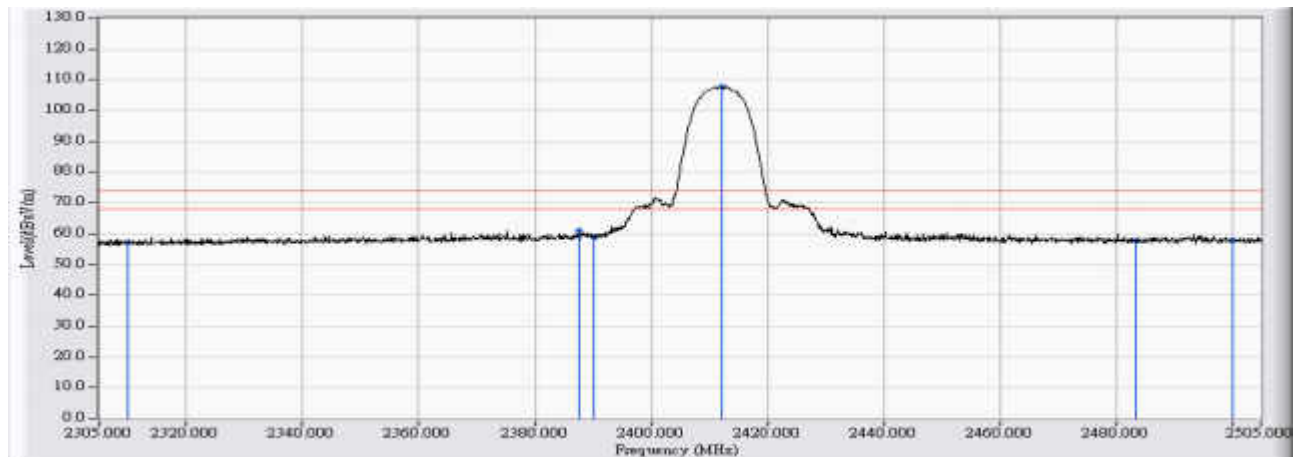
6.6. Uncertainty

The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

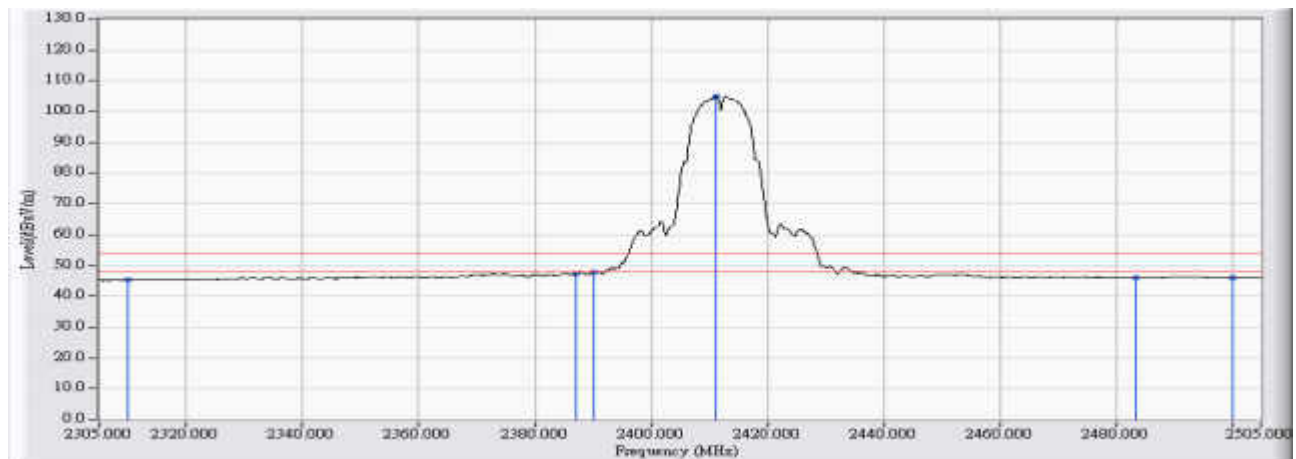


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	57.53	57.034	-16.966	74.000	PEAK
2	2387.600	-0.202	61.07	60.855	-13.145	74.000	PEAK
3	2390.000	-0.193	59.28	59.033	-14.967	74.000	PEAK
4	* 2412.100	-0.107	107.85	107.708	33.708	74.000	PEAK
5	2483.500	0.168	57.63	57.805	-16.195	74.000	PEAK
6	2500.000	0.230	57.68	57.909	-16.091	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

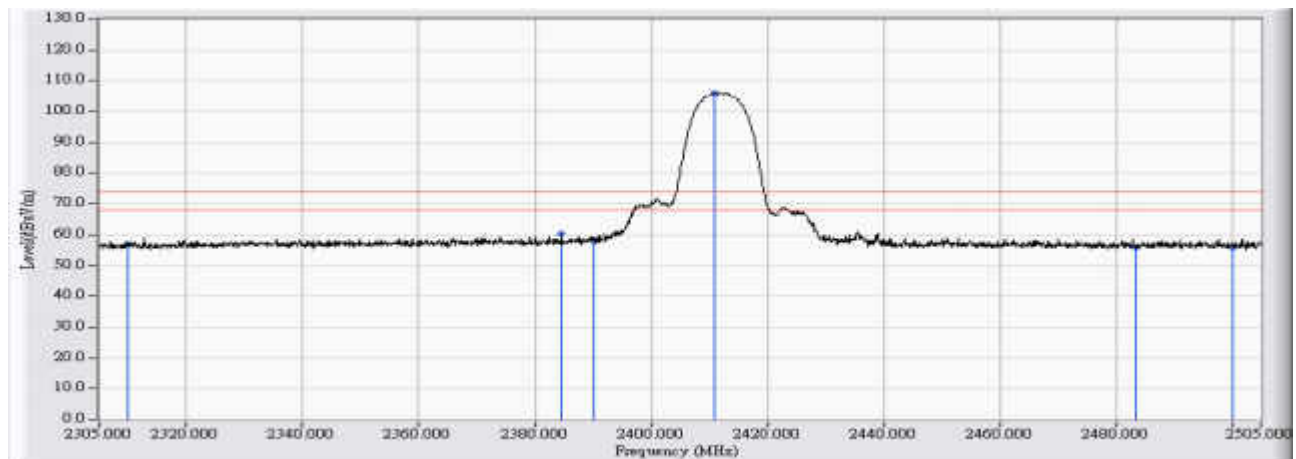


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.786	45.284	-8.716	54.000	AVERAGE
2	2387.100	-0.204	47.636	47.432	-6.568	54.000	AVERAGE
3	2390.000	-0.193	48.055	47.862	-6.138	54.000	AVERAGE
4	* 2411.100	-0.111	105.036	104.925	50.925	54.000	AVERAGE
5	2483.500	0.168	45.752	45.920	-8.080	54.000	AVERAGE
6	2500.000	0.230	45.788	46.019	-7.981	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

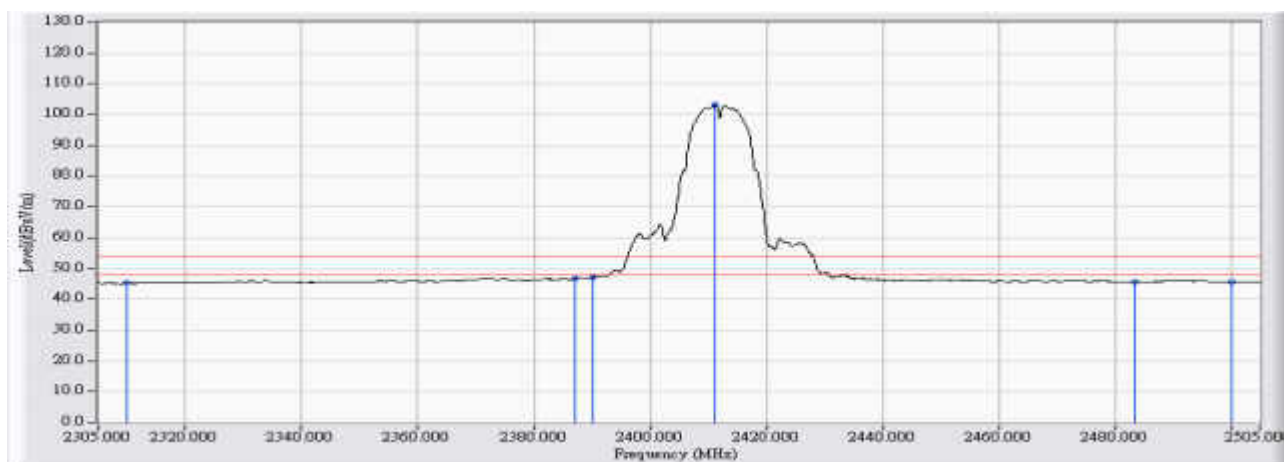


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	57.19	56.697	-17.303	74.000	PEAK
2	2384.600	-0.214	60.65	60.437	-13.563	74.000	PEAK
3	2390.000	-0.193	58.32	58.189	-15.811	74.000	PEAK
4	* 2411.000	-0.112	106.223	106.111	32.111	74.000	PEAK
5	2483.500	0.168	55.73	55.898	-18.102	74.000	PEAK
6	2500.000	0.230	55.62	55.913	-18.087	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant0

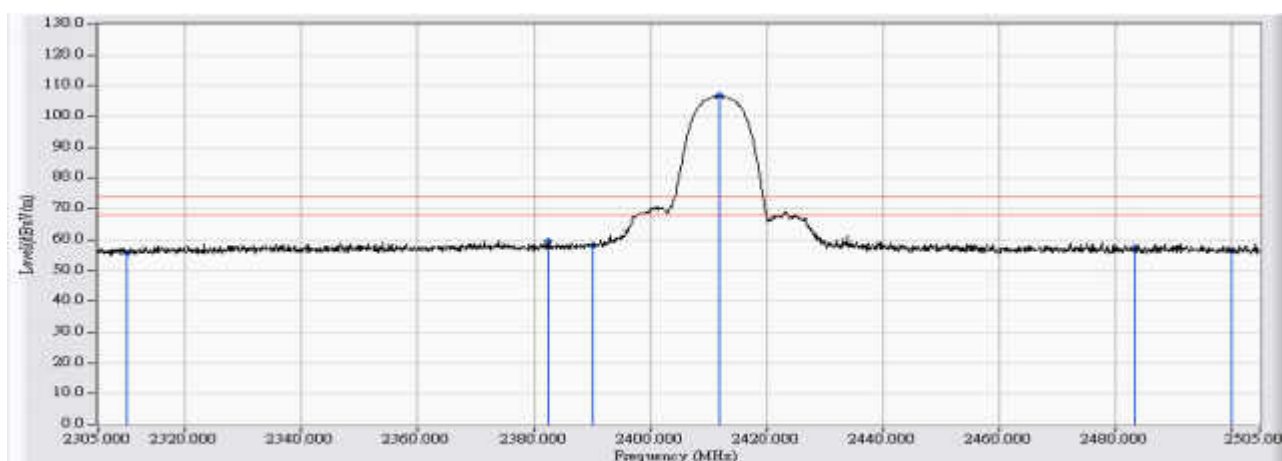


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.702	45.200	-8.800	54.000	AVERAGE
2	2387.100	-0.204	47.073	46.869	-7.131	54.000	AVERAGE
3	2390.000	-0.193	47.326	47.133	-6.867	54.000	AVERAGE
4	* 2411.200	-0.111	103.299	103.188	49.188	54.000	AVERAGE
5	2483.500	0.168	45.622	45.790	-8.210	54.000	AVERAGE
6	2500.000	0.230	45.464	45.695	-8.305	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

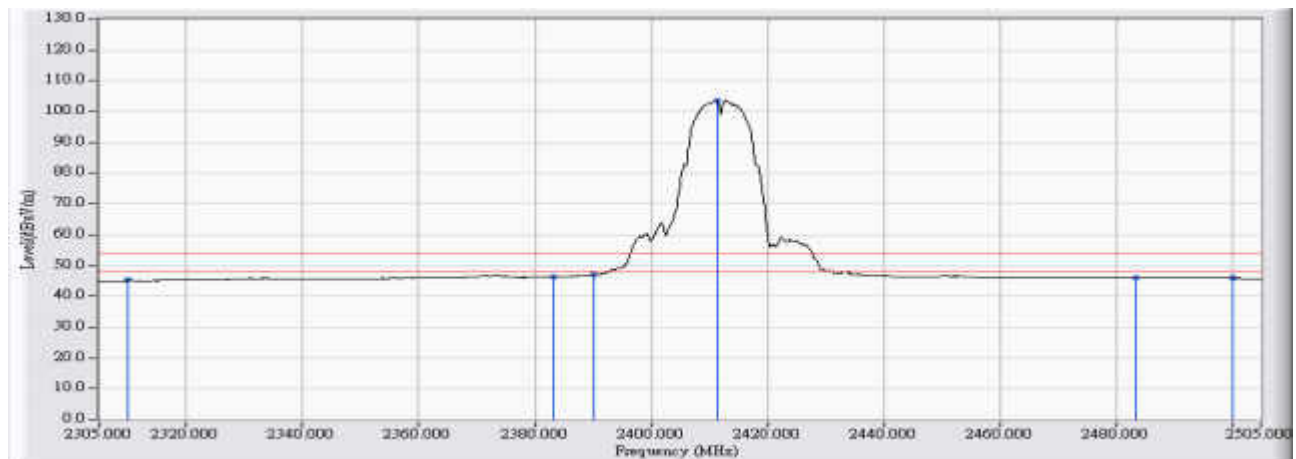


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	56.27	55.769	-18.231	74.000	PEAK
2	2382.400	-0.222	59.76	59.484	-14.516	74.000	PEAK
3	2390.000	-0.193	58.54	58.355	-15.645	74.000	PEAK
4	* 2411.900	-0.108	106.99	106.891	32.891	74.000	PEAK
5	2483.500	0.168	57.33	57.506	-16.494	74.000	PEAK
6	2500.000	0.230	56.15	56.427	-17.573	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

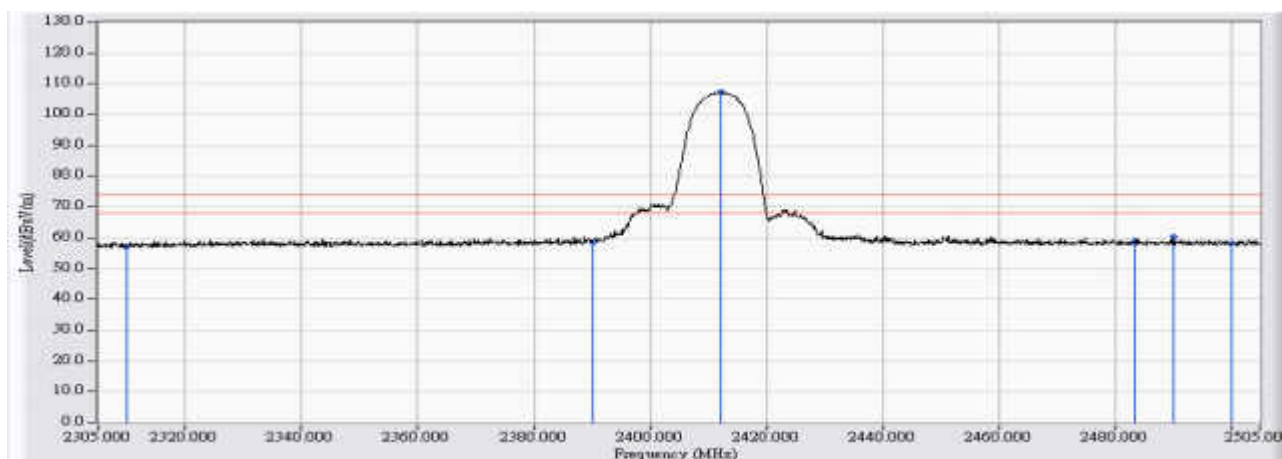


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.652	45.150	-8.850	54.000	AVERAGE
2	2383.100	-0.220	46.559	46.339	-7.661	54.000	AVERAGE
3	2390.000	-0.193	47.192	46.999	-7.001	54.000	AVERAGE
4	* 2411.300	-0.111	103.618	103.507	49.507	54.000	AVERAGE
5	2483.500	0.168	45.734	45.902	-8.098	54.000	AVERAGE
6	2500.000	0.230	45.646	45.877	-8.123	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

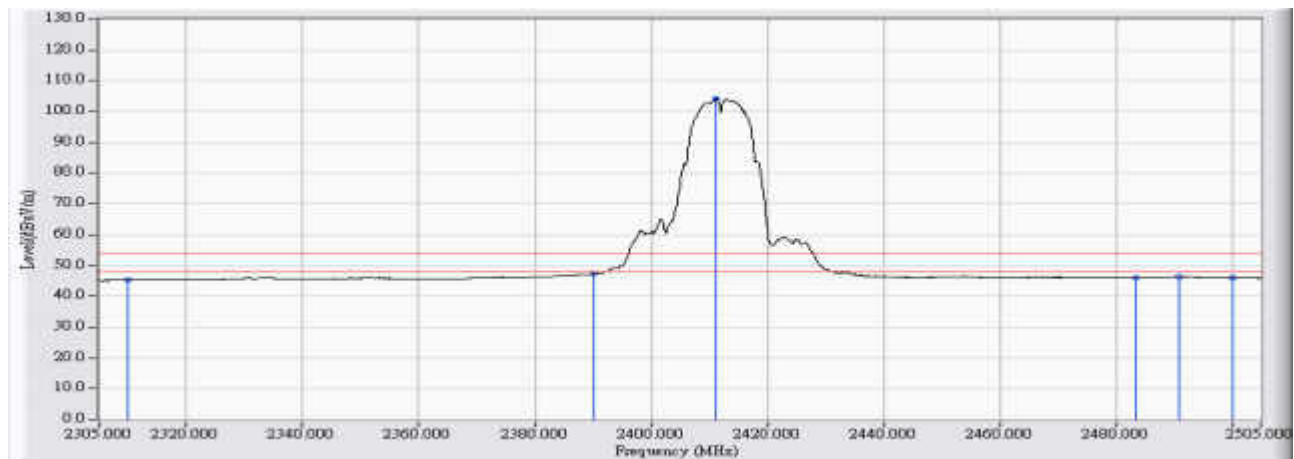


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	57.55	57.073	-16.927	74.000	PEAK
2	2390.000	-0.193	58.70	58.511	-15.489	74.000	PEAK
3	* 2412.100	-0.107	107.56	107.409	33.409	74.000	PEAK
4	2483.500	0.168	58.77	58.939	-15.061	74.000	PEAK
5	2490.200	0.194	60.07	60.211	-13.789	74.000	PEAK
6	2500.000	0.230	58.05	58.246	-15.754	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2412MHz_Ant1

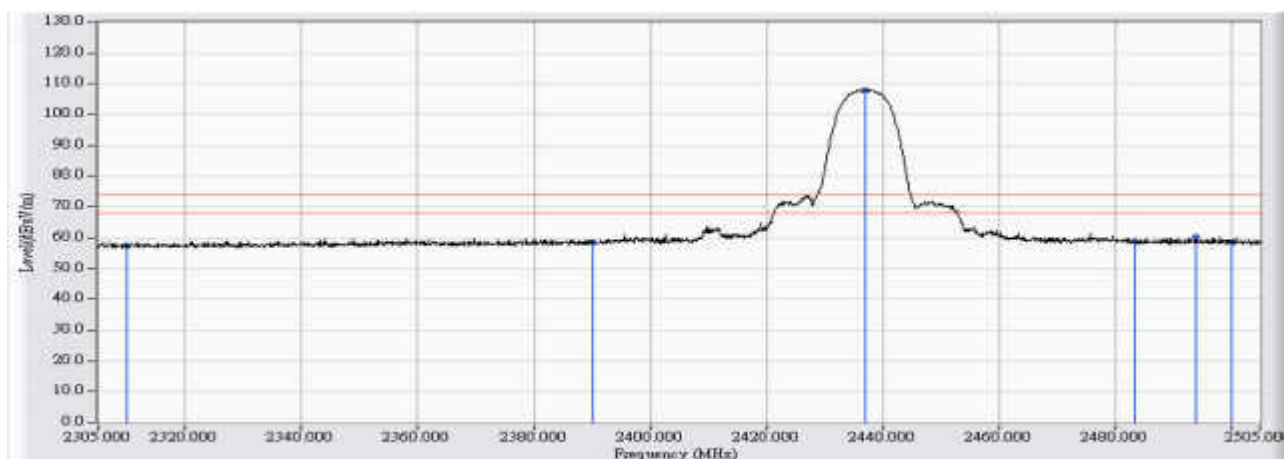


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.690	45.188	-8.812	54.000	AVERAGE
2	2390.000	-0.193	47.475	47.282	-6.718	54.000	AVERAGE
3	* 2411.200	-0.111	104.350	104.239	50.239	54.000	AVERAGE
4	2483.500	0.168	45.817	45.985	-8.015	54.000	AVERAGE
5	2490.800	0.197	46.051	46.248	-7.752	54.000	AVERAGE
6	2500.000	0.230	45.683	45.914	-8.086	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode 802.11b_2437MHz_Ant0

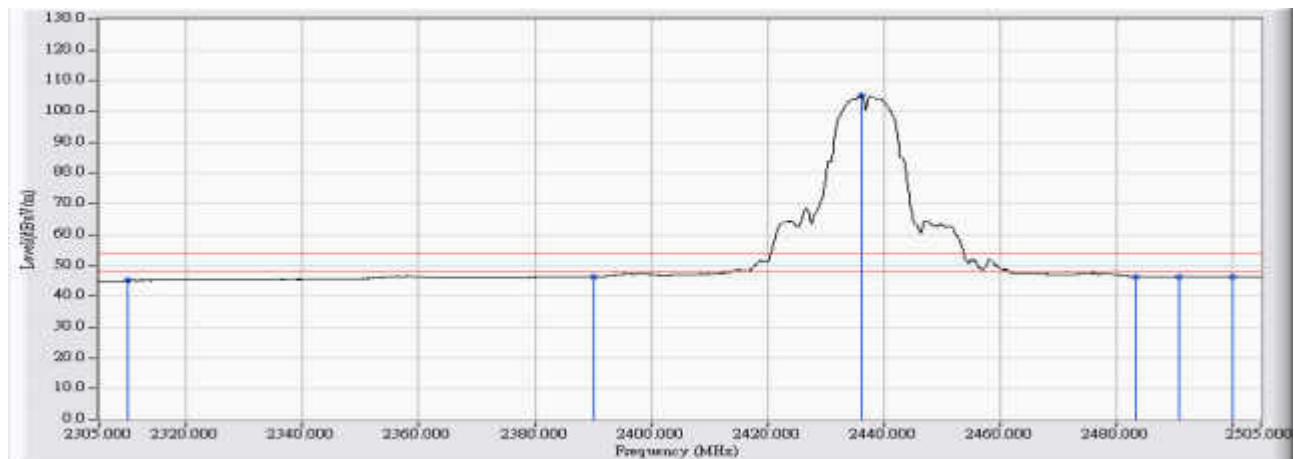


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-0.502	58.01	57.509	-16.491	74.000	PEAK
2		2390.000	-0.193	58.80	58.607	-15.393	74.000	PEAK
3	*	2437.100	-0.011	108.215	108.204	34.204	74.000	PEAK
4		2483.500	0.168	58.70	58.868	-15.132	74.000	PEAK
5		2494.100	0.210	60.06	60.225	-13.775	74.000	PEAK
6		2500.000	0.230	58.36	58.577	-15.423	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

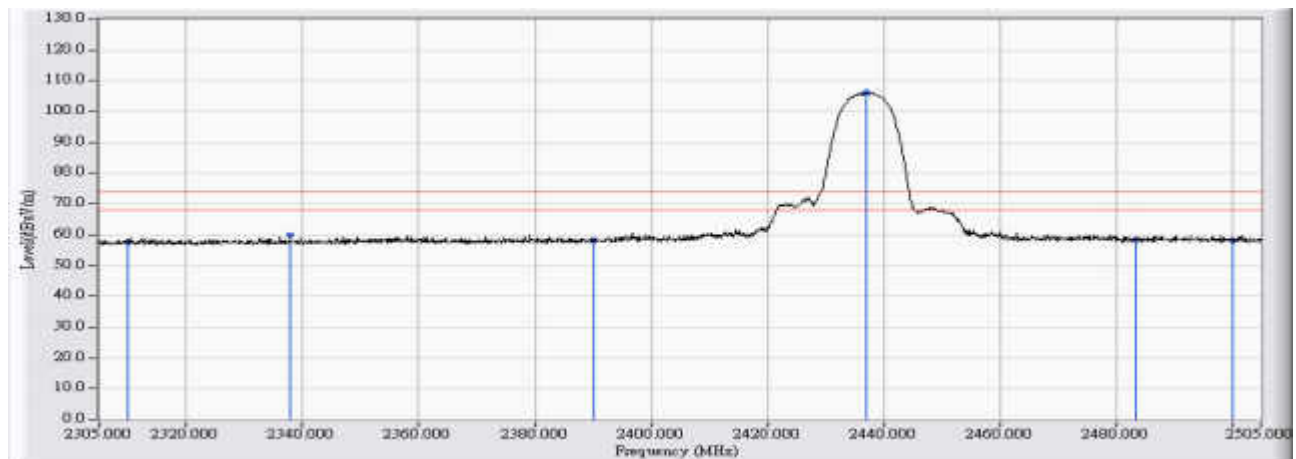


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.638	45.136	-8.864	54.000	AVERAGE
2	2390.000	-0.193	46.572	46.379	-7.621	54.000	AVERAGE
3	* 2436.200	-0.014	105.215	105.201	51.201	54.000	AVERAGE
4	2483.500	0.168	46.289	46.457	-7.543	54.000	AVERAGE
5	2490.800	0.197	46.268	46.465	-7.535	54.000	AVERAGE
6	2500.000	0.230	46.173	46.404	-7.596	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

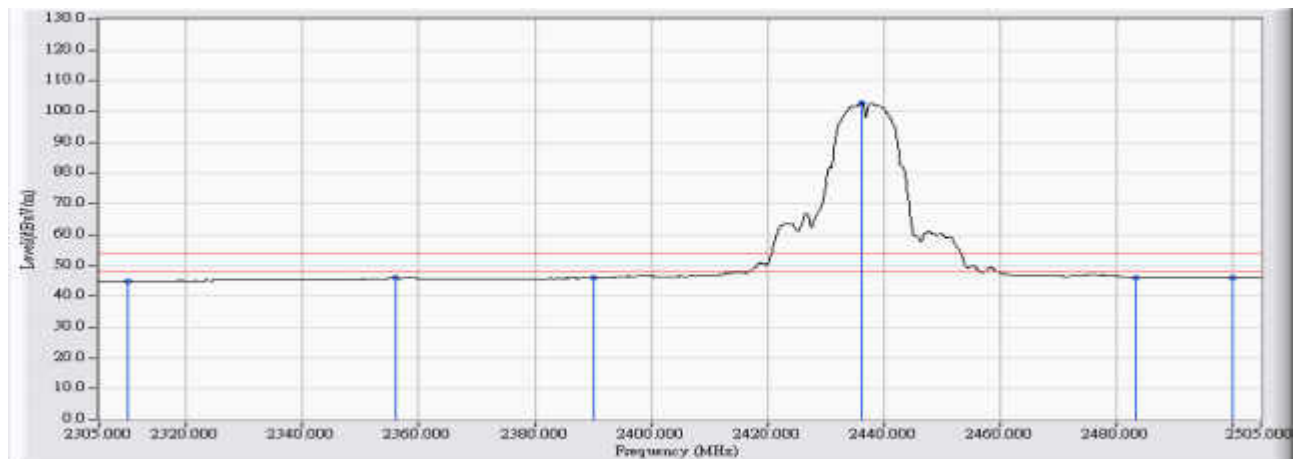


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	57.83	57.381	-16.619	74.000	PEAK
2	2337.800	-0.394	60.27	59.876	-14.124	74.000	PEAK
3	2390.000	-0.193	58.47	58.224	-15.776	74.000	PEAK
4	* 2437.100	-0.011	106.194	106.183	32.183	74.000	PEAK
5	2483.500	0.168	57.99	58.159	-15.841	74.000	PEAK
6	2500.000	0.230	57.96	58.147	-15.853	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant0

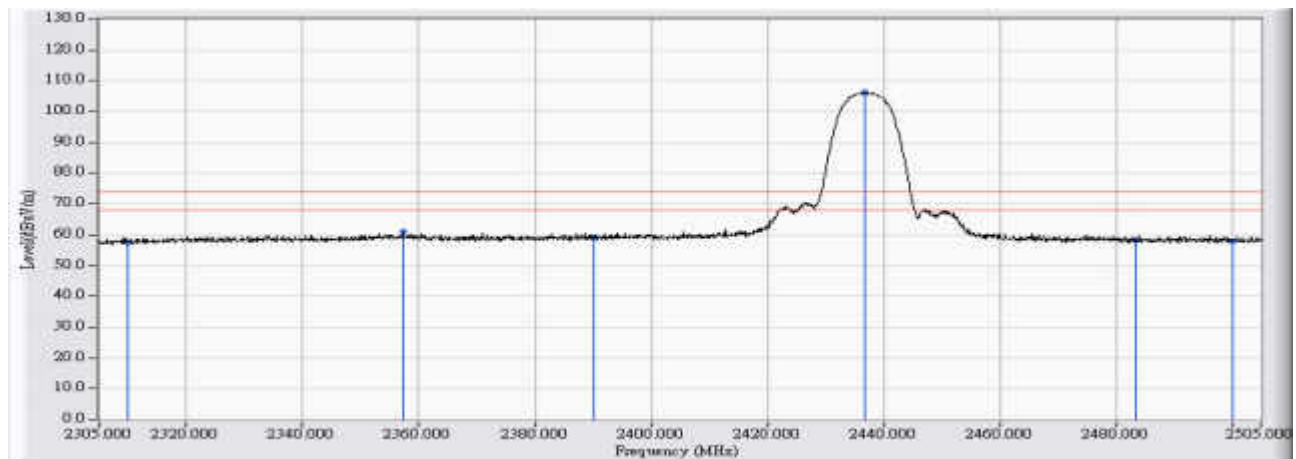


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	45.511	45.009	-8.991	54.000	AVERAGE
2	2355.900	-0.325	46.243	45.918	-8.082	54.000	AVERAGE
3	2390.000	-0.193	46.068	45.875	-8.125	54.000	AVERAGE
4	* 2436.200	-0.014	102.884	102.870	48.870	54.000	AVERAGE
5	2483.500	0.168	45.941	46.109	-7.891	54.000	AVERAGE
6	2500.000	0.230	45.779	46.010	-7.990	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

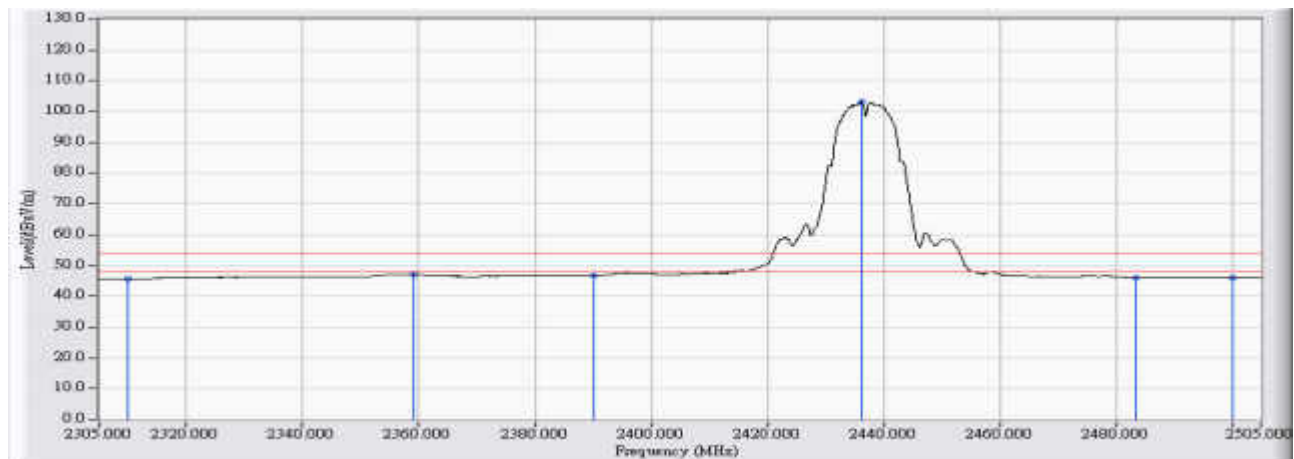


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	58.06	57.514	-16.486	74.000	PEAK
2	2357.200	-0.320	61.22	60.912	-13.088	74.000	PEAK
3	2390.000	-0.193	59.59	59.398	-14.602	74.000	PEAK
4	* 2436.900	-0.011	106.31	106.299	32.299	74.000	PEAK
5	2483.500	0.168	58.15	58.324	-15.676	74.000	PEAK
6	2500.000	0.230	57.77	58.002	-15.998	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

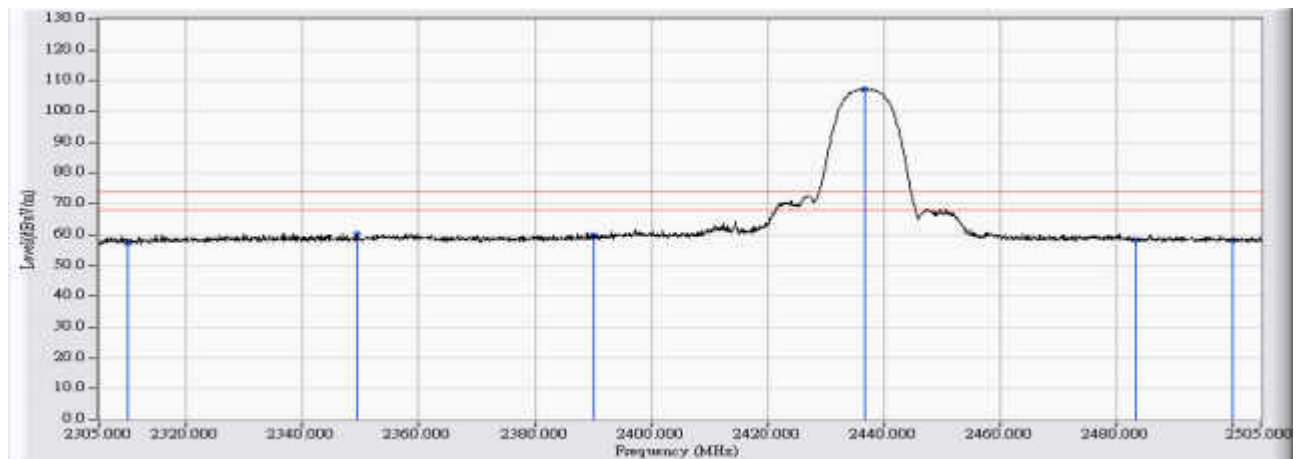


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	46.180	45.678	-8.322	54.000	AVERAGE
2	2359.000	-0.312	47.465	47.152	-6.848	54.000	AVERAGE
3	2390.000	-0.193	47.011	46.818	-7.182	54.000	AVERAGE
4	* 2436.200	-0.014	103.057	103.043	49.043	54.000	AVERAGE
5	2483.500	0.168	45.888	46.056	-7.944	54.000	AVERAGE
6	2500.000	0.230	45.672	45.903	-8.097	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1

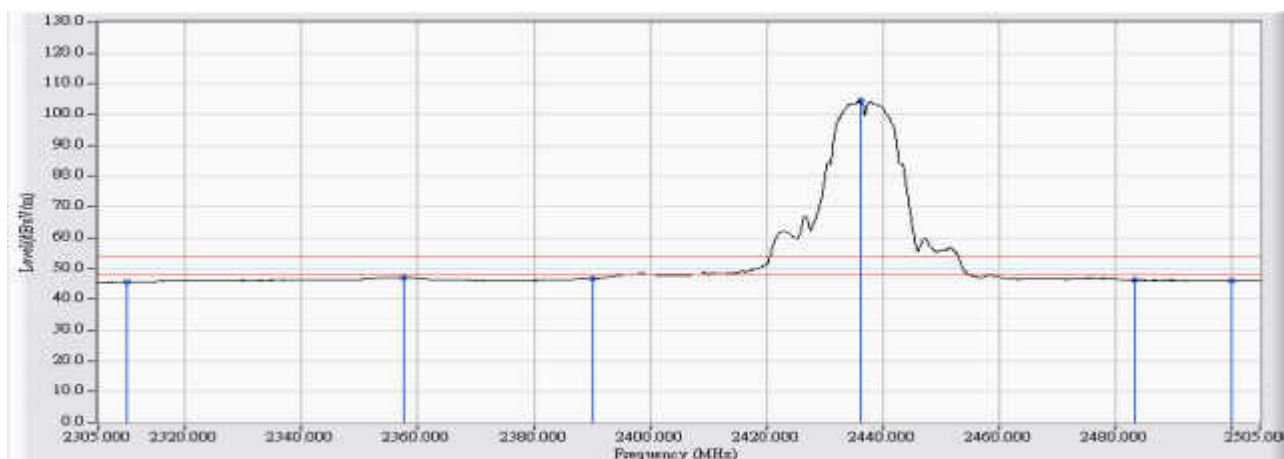


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	57.82	57.327	-16.673	74.000	PEAK
2	2349.300	-0.350	60.72	60.422	-13.578	74.000	PEAK
3	2390.000	-0.193	60.12	59.909	-14.091	74.000	PEAK
4	* 2436.900	-0.011	107.473	107.461	33.461	74.000	PEAK
5	2483.500	0.168	58.04	58.215	-15.785	74.000	PEAK
6	2500.000	0.230	58.02	58.313	-15.687	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	Time : 2017/04/07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4-H_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : UHD651-L	Note : Mode 1: Tx_SISO Mode_802.11b_2437MHz_Ant1



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-0.502	46.060	45.558	-8.442	54.000	AVERAGE
2	2357.500	-0.318	47.313	46.995	-7.005	54.000	AVERAGE
3	2390.000	-0.193	46.936	46.743	-7.257	54.000	AVERAGE
4	* 2436.200	-0.014	104.523	104.509	50.509	54.000	AVERAGE
5	2483.500	0.168	46.020	46.188	-7.812	54.000	AVERAGE
6	2500.000	0.230	45.773	46.004	-7.996	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.