

FCC Test Report

Product Name : Wireless Ceiling Access Point
Model No. : ACP24
FCC ID. : 2ACBOACP24

Applicant : ALCON Technology Corporation
Address : 2nd floor, No. 480-5, Sec 6, Yen-Ping N.
Road, Shih-Lin, Taipei, Taiwan R.O.C.

Date of Receipt : 2014/06/04
Issued Date : 2014/08/15
Report No. : 1460171R-RFUSP27V00
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : 2014/08/15

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 Applicant : ALCON Technology Corporation
 Address : 2nd floor, No. 480-5, Sec 6, Yen-Ping N. Road, Shih-Lin,
 Taipei, Taiwan R.O.C.
 Manufacturer : ALCON Technology Corporation
 Model No. : ACP24
 FCC ID. : 2ACBOACP24
 EUT Test Voltage : DC 48~56V
 Trade Name : ALCON
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2013
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

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Documented By :

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(Roy Wang / Director)

Laboratory Information

We, **QuieTek Corporation**, 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: 1313
		NCC, Certificate No : NCC-RCB-07
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

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1. General Information

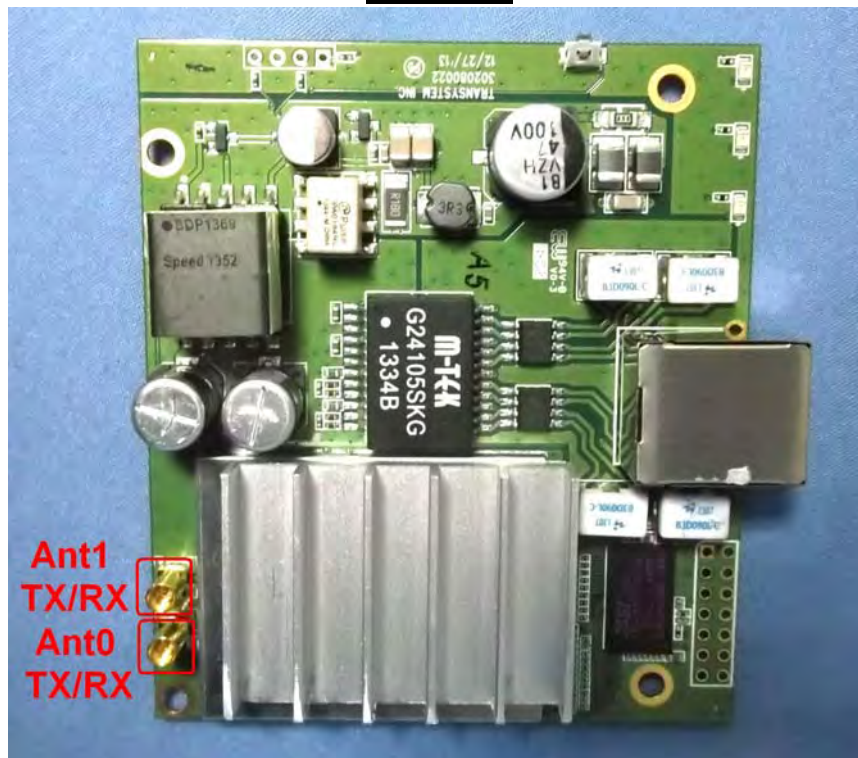
1.1. EUT Description

Product Name	Wireless Ceiling Access Point
Product Type	WLAN (2TX, 2RX)
Trade Name	ALCON
Model No.	ACP24
Frequency Range/Channel Number -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
Frequency Range/Channel Number - IEEE 802.11n (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1, 2, 5.5, 11Mbps
Data Speed (IEEE 802.11g)	6, 9, 18, 24, 36, 48, 54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Antenna Gain	9dBi
Antenna Type	PCB Antenna

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX		RX	
	20MHz	40MHz	20MHz	40MHz
IEEE802.11b	✓		✓	
IEEE802.11g	✓		✓	
IEEE802.11n	✓	✓	✓	✓

(2TX /2RX)



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 Wireless Ceiling Access Point including 2.4GHz b/g/n (2x2) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. 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.
4. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1460171R-RFUSP01V00 under Declaration of Conformity.

1.2. Test Mode

Quietek 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: Transmit
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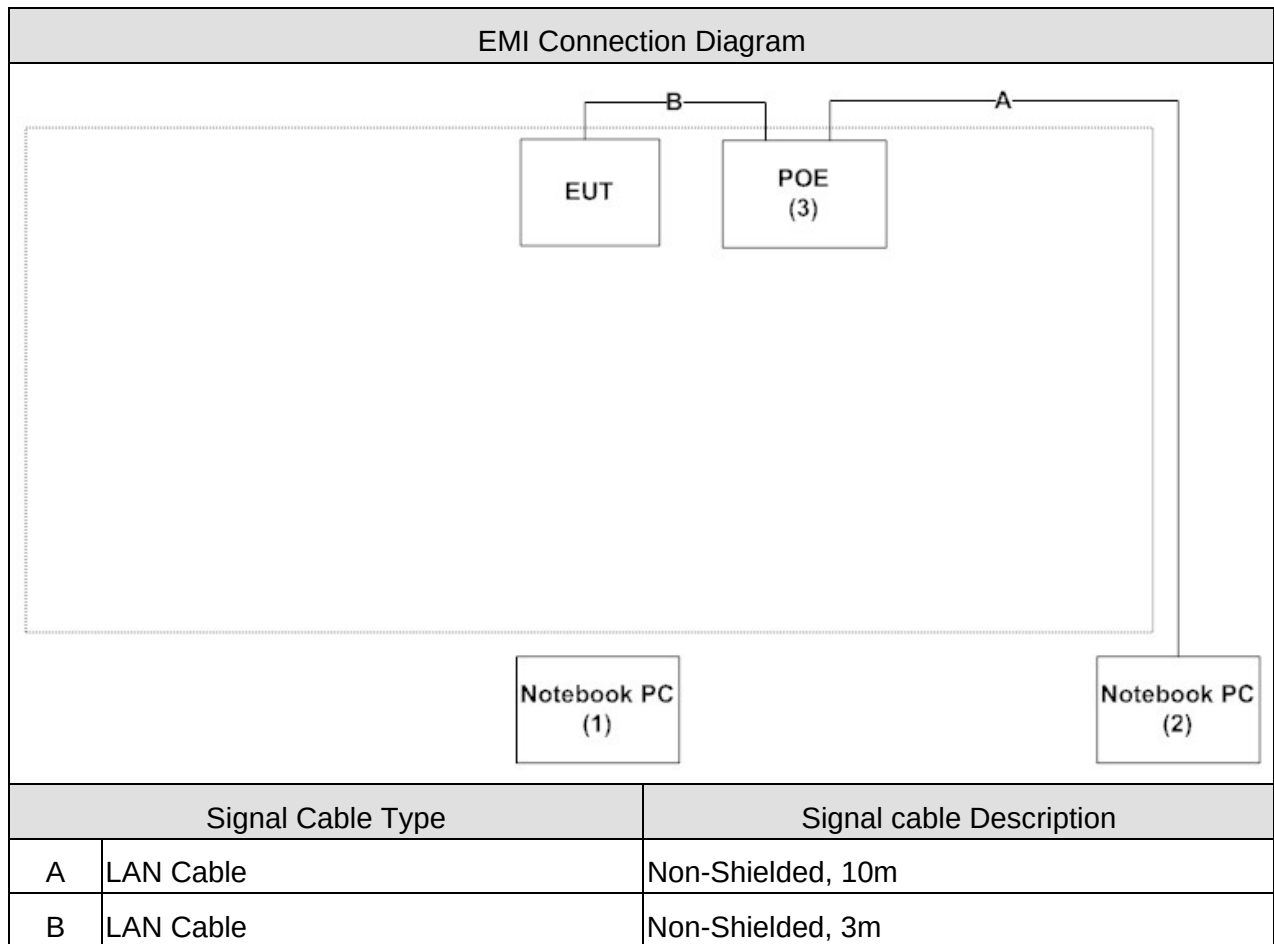
Test Items	Mode	Modulation	Channel	Antenna	Result
Conducted Emission	1	11n(40MHz)	6	0+1	Complies
Peak Power Output	1	b/g	1/ 6/ 11	0	Complies
	1	11n(20MHz)	1/ 6/ 11	0+1	Complies
	1	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission	1	b/g	1/ 6/ 11	0	Complies
	1	11n(20MHz)	1/ 6/ 11	0+1	Complies
	1	11n(40MHz)	3/ 6/ 9	0+1	Complies
RF antenna conducted test	1	b/g	1/ 11	0	Complies
	1	11n(20MHz)	1/ 11	0/1	Complies
	1	11n(40MHz)	3/ 9	0/1	Complies
Radiated Emission Band Edge	1	b/g	1/ 11	0	Complies
	1	11n(20MHz)	1/ 11	0+1	Complies
	1	11n(40MHz)	3/ 9	0+1	Complies
Occupied Bandwidth	1	b/g	1/ 6/ 11	0	Complies
	1	11n(20MHz)	1/ 6/ 11	0/1	Complies
	1	11n(40MHz)	3/ 6/ 9	0/1	Complies
Power Density	1	b/g	1/ 6/ 11	0	Complies
	1	11n(20MHz)	1/ 6/ 11	0+1	Complies
	1	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	HP	HSTNN-146C	CNU8253S1X	DoC	Non-Shielded, 1.8m
2	Notebook PC	ACER	MS2296	LUSCV0213911 50332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
3	POE	POE Power Supply Gigabit	PSE-560055G	--	DoC	--

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Test system is in accord with EUT user manual (refer to 1.4 configuration of tested system)
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk.
4	Data will communicate by connecting wireless function to PC.
5	The PC 's monitor will show the transmitting and receiving characteristics when the communication is success.
6	Repeat the above procedure (4) to (5).

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
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

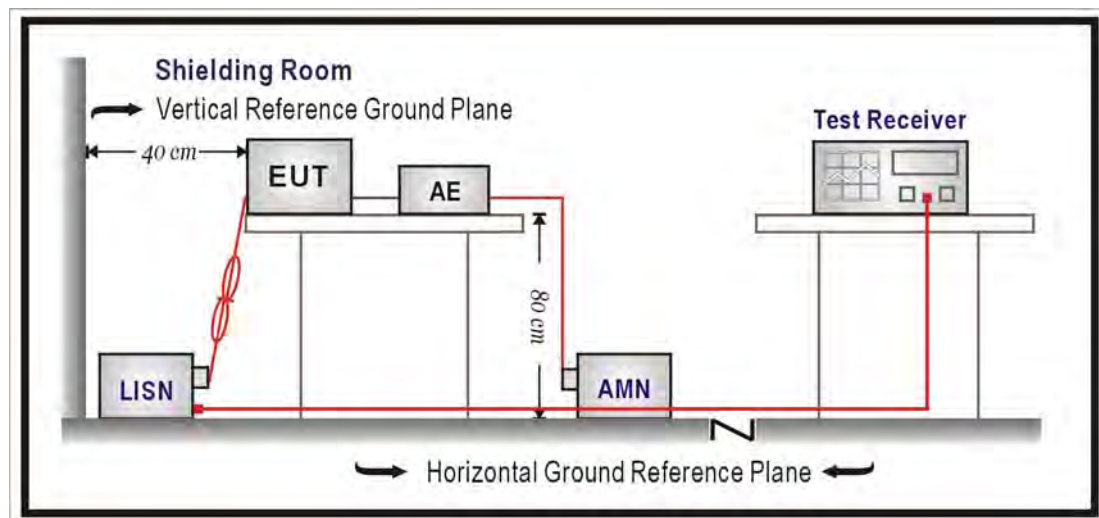
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2015/08/10
LISN	R&S	ESH3-Z5	836679/022	2015/01/02
Test Receiver	R&S	ESCS 30	825442/017	2014/12/24

Note: 1. 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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of KDB558074 v03r01 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

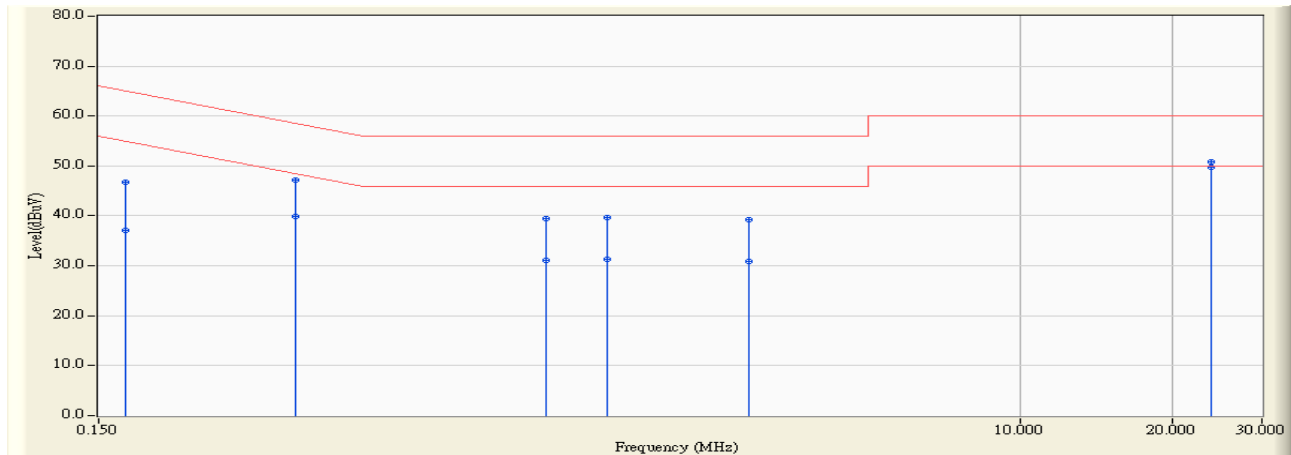
According to FCC Part 15 Subpart C Paragraph 15.207: 2013

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2014/08/08 - 14:12
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line1	Power : AC 120V 60Hz
EUT : Wireless Ceiling Access Point	Note : 802.11n40 ch6

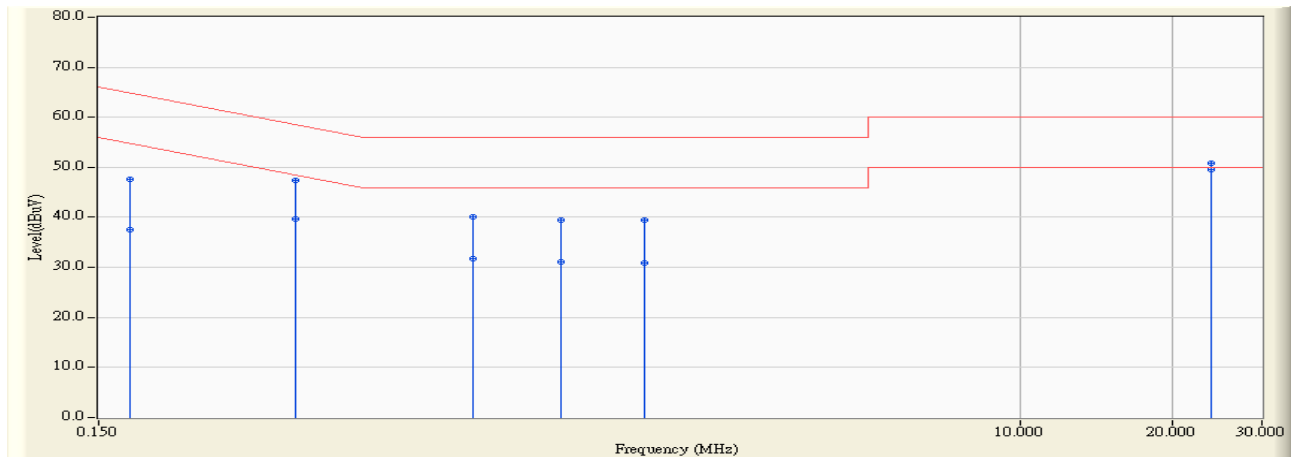


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.638	37.150	46.788	-18.195	64.983	QUASIPeAK
2		0.170	9.638	27.560	37.198	-17.785	54.983	AVERAGE
3		0.369	9.692	37.560	47.252	-11.277	58.529	QUASIPeAK
4		0.369	9.692	30.100	39.792	-8.737	48.529	AVERAGE
5		1.154	9.757	29.610	39.367	-16.633	56.000	QUASIPeAK
6		1.154	9.757	21.310	31.067	-14.933	46.000	AVERAGE
7		1.521	9.797	29.880	39.677	-16.323	56.000	QUASIPeAK
8		1.521	9.797	21.480	31.277	-14.723	46.000	AVERAGE
9		2.896	9.884	29.460	39.344	-16.656	56.000	QUASIPeAK
10		2.896	9.884	21.100	30.984	-15.016	46.000	AVERAGE
11		23.752	10.198	40.600	50.798	-9.202	60.000	QUASIPeAK
12	*	23.752	10.198	39.540	49.738	-0.262	50.000	AVERAGE

Note:

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

Site : SR2	Time : 2014/08/08 - 13:55
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-3_0822 - Line2	Power : AC 120V 60Hz
EUT : Wireless Ceiling Access Point	Note : 802.11n40 ch6



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.626	37.910	47.536	-17.258	64.794	QUASIPeAK
2		0.173	9.626	27.900	37.526	-17.268	54.794	AVERAGE
3		0.369	9.674	37.680	47.354	-11.175	58.529	QUASIPeAK
4		0.369	9.674	30.060	39.734	-8.795	48.529	AVERAGE
5		0.826	9.717	30.420	40.137	-15.863	56.000	QUASIPeAK
6		0.826	9.717	22.020	31.737	-14.263	46.000	AVERAGE
7		1.236	9.746	29.790	39.536	-16.464	56.000	QUASIPeAK
8		1.236	9.746	21.430	31.176	-14.824	46.000	AVERAGE
9		1.806	9.808	29.640	39.449	-16.551	56.000	QUASIPeAK
10		1.806	9.808	20.980	30.789	-15.211	46.000	AVERAGE
11		23.759	10.335	40.400	50.735	-9.265	60.000	QUASIPeAK
12	*	23.759	10.335	39.250	49.585	-0.415	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-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

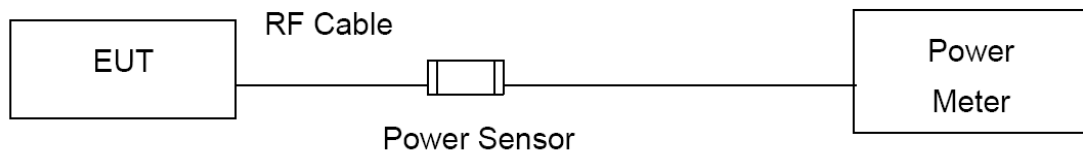
The following test equipments are used during the test:

Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2014/11/19
Power Sensor	Agilent	N1921A	MY45241670	2014/11/19

Note: 1. 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 v03r02 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: 2013

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.87	27	Pass
6	2437	19.72	27	Pass
11	2462	20.34	27	Pass

The worst emission of data rate is 1Mbps.

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	19.87	--	--	--	27dBm
6	2437	19.72	19.70	19.68	19.65	27dBm
11	2462	20.34	--	--	--	27dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	25.52	27	Pass
6	2437	25.31	27	Pass
11	2462	26.06	27	Pass

The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
1	2412	25.52	--	--	--	--	--	--	27dBm
6	2437	25.31	25.29	25.27	24.26	24.24	24.22	24.21	27dBm
11	2462	26.06	--	--	--	--	--	--	27dBm

Note: Measure Level =Reading value + cable loss

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.89	24	Pass
6	2437	20.09	24	Pass
11	2462	20.21	24	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	13	6.5	13	19.5	26	39	52	58.5	65	
1	2412	19.89	--	--	--	--	--	--	--	24dBm
6	2437	20.09	20.08	20.06	20.05	20.04	20.02	20.01	19.98	24dBm
11	2462	20.21	--	--	--	--	--	--	--	24dBm

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.40	24	Pass
6	2437	21.23	24	Pass
11	2462	20.83	24	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	13	6.5	13	19.5	26	39	52	58.5	65	
1	2412	20.40	--	--	--	--	--	--	--	24dBm
6	2437	21.23	21.22	21.20	20.98	20.97	20.95	20.93	20.91	24dBm
11	2462	20.83	--	--	--	--	--	--	--	24dBm

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.16	24	Pass
6	2437	23.71	24	Pass
11	2462	23.54	24	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	13									
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	23.16	--	--	--	--	--	--	--	24dBm
6	2437	23.71	23.69	23.68	23.66	22.65	22.63	22.61	22.60	24dBm
11	2462	23.54	--	--	--	--	--	--	--	24dBm

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 40MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	18.84	24	Pass
6	2437	19.74	24	Pass
9	2452	19.86	24	Pass

The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Data Rate	Data Rate								
	6.5	13.5	27	40.5	54	81	108	121.5	135	
3	2422	18.84	--	--	--	--	--	--	--	24dBm
6	2437	19.74	19.73	19.71	19.70	18.98	18.96	18.95	18.94	24dBm
9	2452	19.86	--	--	--	--	--	--	--	24dBm

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 40MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2412	19.71	24	Pass
6	2437	20.90	24	Pass
9	2462	20.66	24	Pass

The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Data Rate									
	6.5	13.5	27	40.5	54	81	108	121.5	135	
3	2422	19.71	--	--	--	--	--	--	--	24dBm
6	2437	20.90	20.89	20.87	20.86	20.84	20.83	19.81	19.80	24dBm
9	2452	20.66	--	--	--	--	--	--	--	24dBm

Product	Wireless Ceiling Access Point		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n 40MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2412	22.307	24	Pass
6	2437	23.369	24	Pass
9	2462	23.289	24	Pass

The worst emission of data rate is 27 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	22.31	--	--	--	--	--	--	--	24dBm
6	2437	23.37	23.36	23.35	23.33	23.31	23.29	23.27	23.25	24dBm
9	2452	23.29	--	--	--	--	--	--	--	24dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

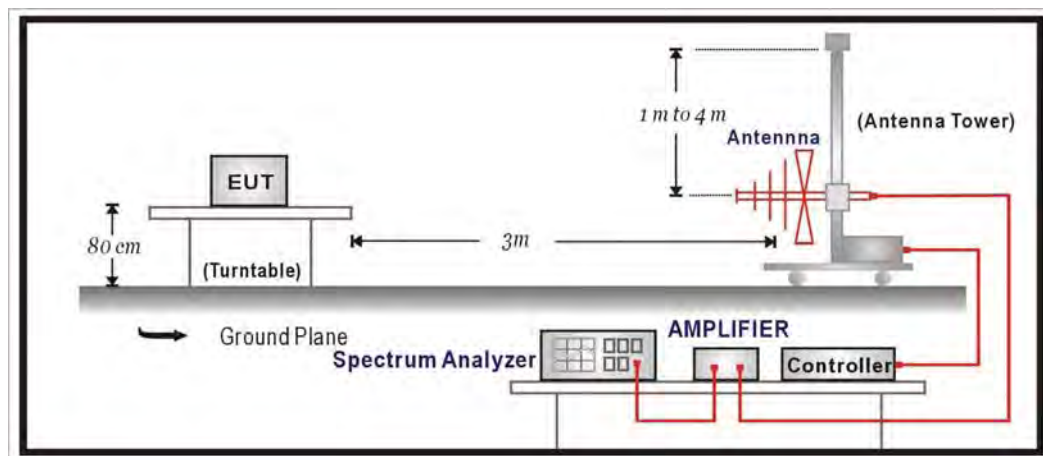
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Pre-Amplifier	Quietek	AMF-4D.	888003	2015/06/02
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2015/02/06
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

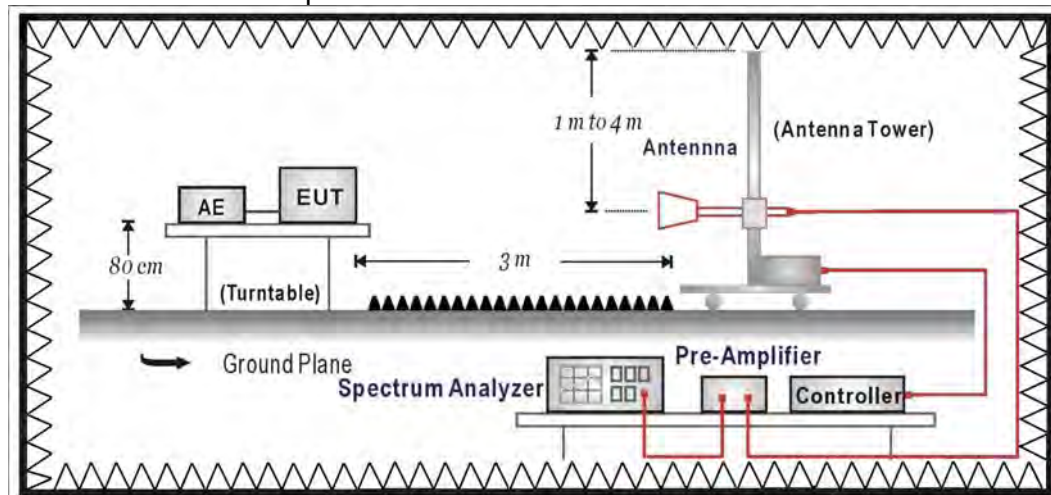
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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 C63.4: 2009 and tested according to DTS test procedure of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. 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 C63.4: 2009 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: 2013

4.6. Uncertainty

The measurement uncertainty

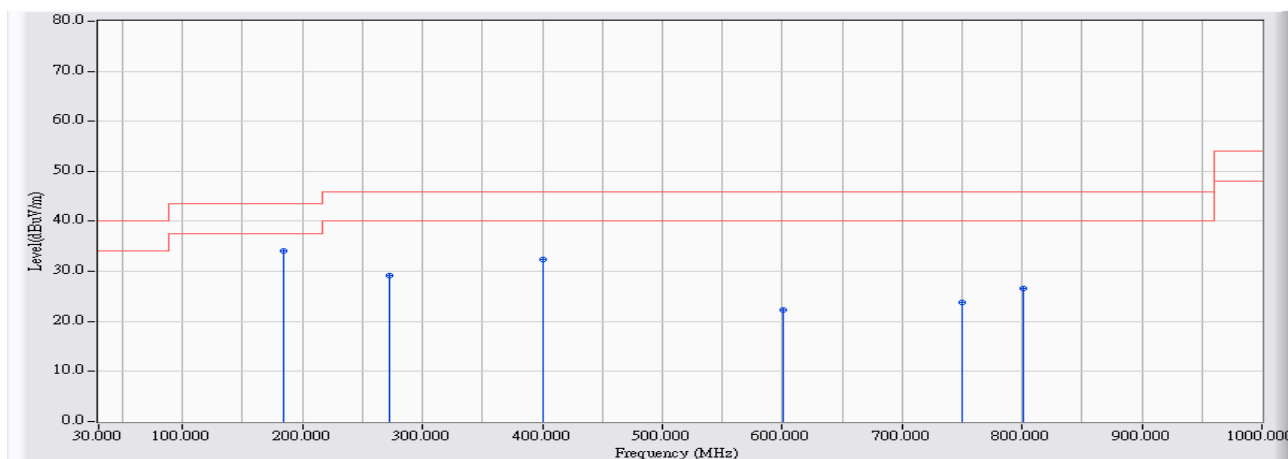
30MHz~1GHz as $\pm 3.43\text{dB}$

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

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2014/08/12 - 20:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11b ch6 TX

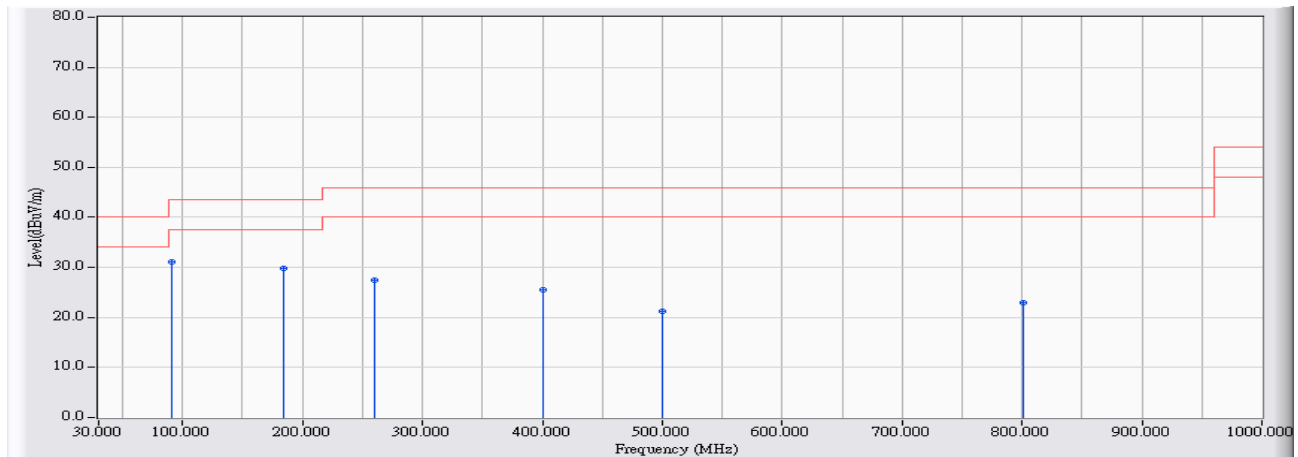


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	184.230	-24.872	59.012	34.140	-9.360	43.500	QUASIPeAK
2		272.015	-20.762	49.865	29.103	-16.897	46.000	QUASIPeAK
3		400.055	-17.456	49.784	32.328	-13.672	46.000	QUASIPeAK
4		600.360	-14.278	36.496	22.217	-23.783	46.000	QUASIPeAK
5		750.225	-12.558	36.364	23.806	-22.194	46.000	QUASIPeAK
6		800.665	-11.648	38.149	26.501	-19.499	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 : CB1	Time : 2014/08/12 - 20:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11b ch6 TX

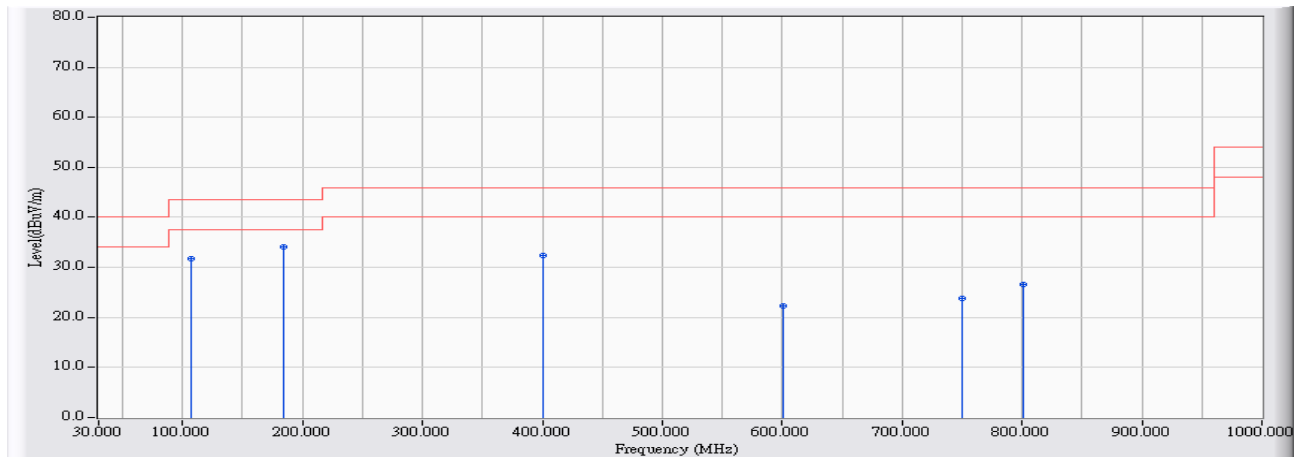


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	90.625	-25.887	57.018	31.131	-12.369	43.500	QUASIPeAK
2		184.230	-24.872	54.763	29.891	-13.609	43.500	QUASIPeAK
3		259.890	-20.958	48.466	27.508	-18.492	46.000	QUASIPeAK
4		400.055	-17.456	42.981	25.525	-20.475	46.000	QUASIPeAK
5		500.450	-15.635	36.830	21.195	-24.805	46.000	QUASIPeAK
6		800.665	-11.648	34.499	22.851	-23.149	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 : CB1	Time : 2014/08/12 - 20:28
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11g ch6 TX

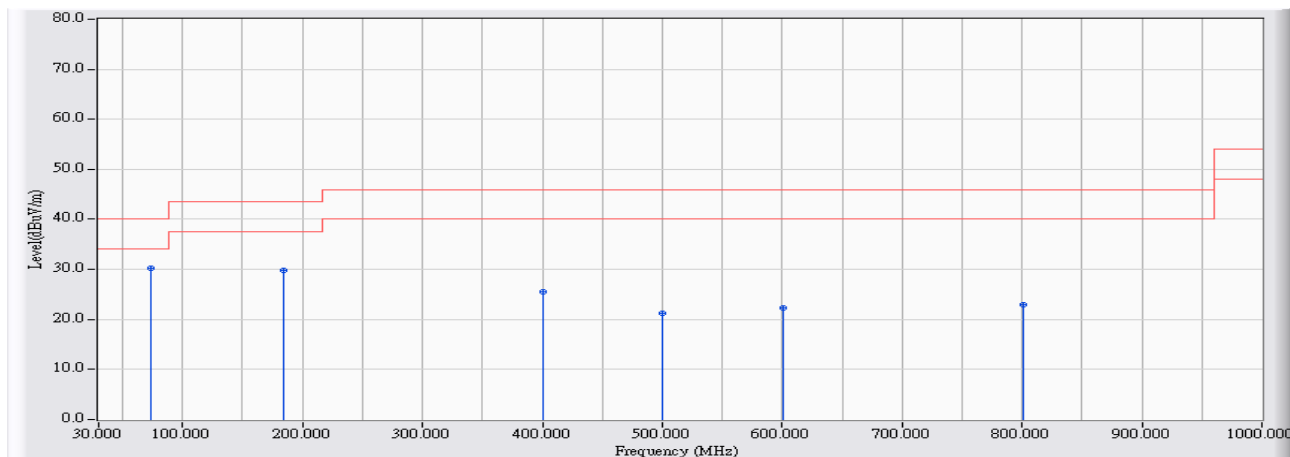


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.630	-23.211	55.019	31.808	-11.692	43.500	QUASIPeAK
2	*	184.230	-24.872	59.012	34.140	-9.360	43.500	QUASIPeAK
3		400.055	-17.456	49.784	32.328	-13.672	46.000	QUASIPeAK
4		600.360	-14.278	36.496	22.217	-23.783	46.000	QUASIPeAK
5		750.225	-12.558	36.364	23.806	-22.194	46.000	QUASIPeAK
6		800.665	-11.648	38.149	26.501	-19.499	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 : CB1	Time : 2014/08/12 - 20:26
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11g ch6 TX

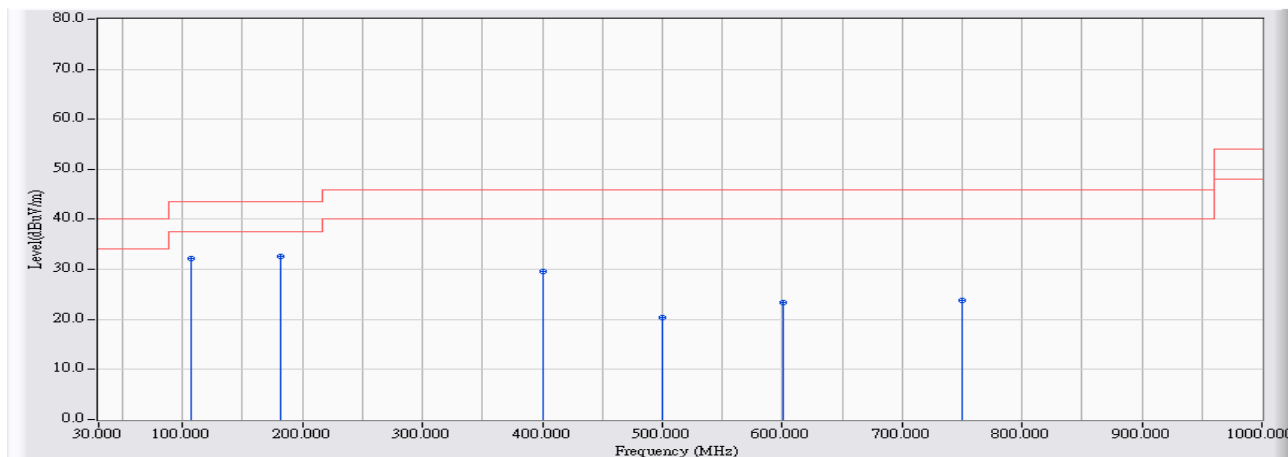


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	74.135	-27.731	57.920	30.190	-9.810	40.000	QUASIPeAK
2		184.230	-24.872	54.763	29.891	-13.609	43.500	QUASIPeAK
3		400.055	-17.456	42.981	25.525	-20.475	46.000	QUASIPeAK
4		500.450	-15.635	36.830	21.195	-24.805	46.000	QUASIPeAK
5		600.360	-14.278	36.500	22.221	-23.779	46.000	QUASIPeAK
6		800.665	-11.648	34.499	22.851	-23.149	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 : CB1	Time : 2014/08/12 - 20:04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11n20 ch6 TX

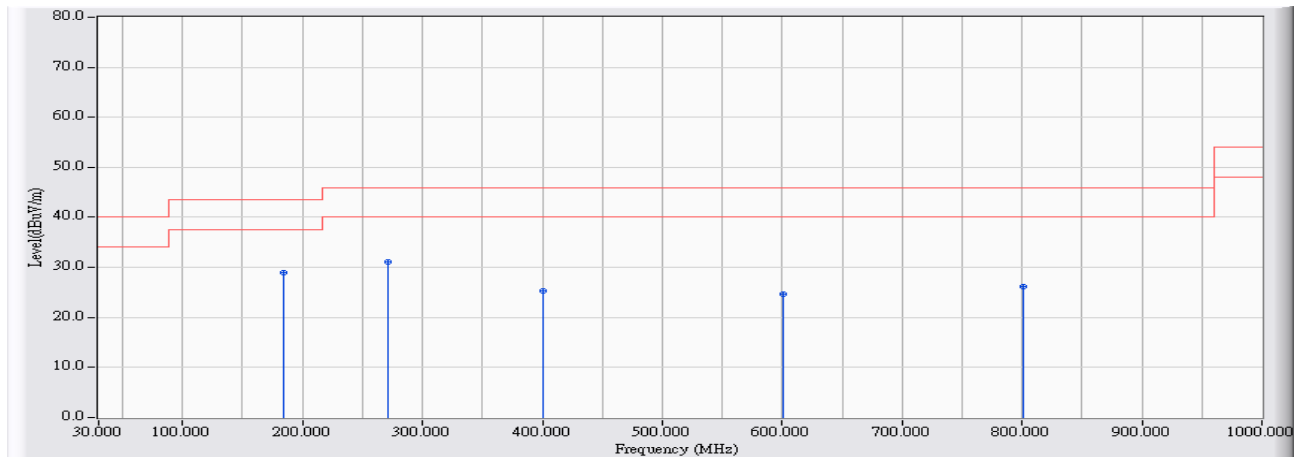


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.630	-23.211	55.287	32.076	-11.424	43.500	QUASIPeAK
2	*	182.290	-24.880	57.578	32.698	-10.802	43.500	QUASIPeAK
3		400.055	-17.456	46.982	29.526	-16.474	46.000	QUASIPeAK
4		500.450	-15.635	36.064	20.429	-25.571	46.000	QUASIPeAK
5		600.360	-14.278	37.663	23.384	-22.616	46.000	QUASIPeAK
6		750.225	-12.558	36.468	23.910	-22.090	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 : CB1	Time : 2014/08/12 - 20:15
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11n20 ch6 TX

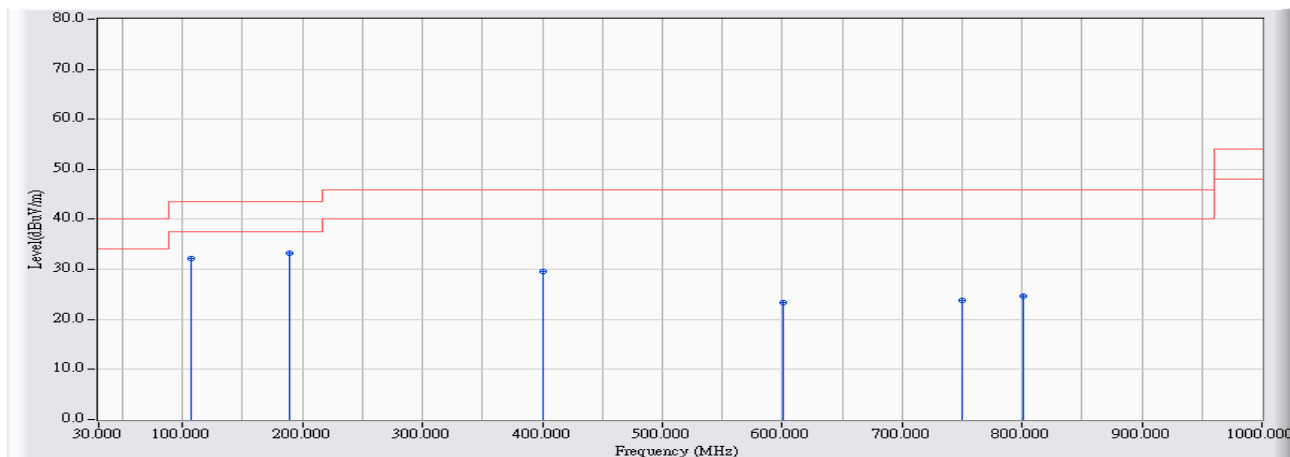


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	184.230	-24.872	53.738	28.866	-14.634	43.500	QUASIPeAK
2		271.045	-20.778	51.952	31.174	-14.826	46.000	QUASIPeAK
3		400.055	-17.456	42.867	25.411	-20.589	46.000	QUASIPeAK
4		600.360	-14.278	38.991	24.712	-21.288	46.000	QUASIPeAK
5		800.665	-11.648	37.710	26.062	-19.938	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 : CB1	Time : 2014/08/12 - 20:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11n40 ch6 TX

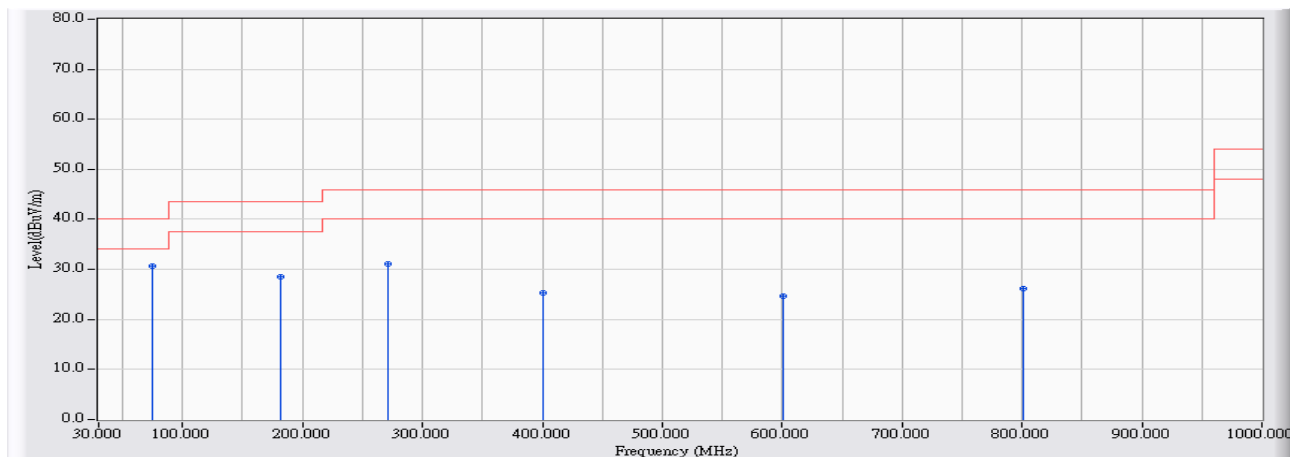


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.630	-23.211	55.287	32.076	-11.424	43.500	QUASIPeAK
2	*	189.565	-24.847	58.107	33.260	-10.240	43.500	QUASIPeAK
3		400.055	-17.456	46.982	29.526	-16.474	46.000	QUASIPeAK
4		600.360	-14.278	37.663	23.384	-22.616	46.000	QUASIPeAK
5		750.225	-12.558	36.468	23.910	-22.090	46.000	QUASIPeAK
6		800.665	-11.648	36.339	24.691	-21.309	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 : CB1	Time : 2014/08/12 - 20:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 56V(Power by POE)
EUT : Wireless Ceiling Access Point	Note : 802.11n40 ch6 TX



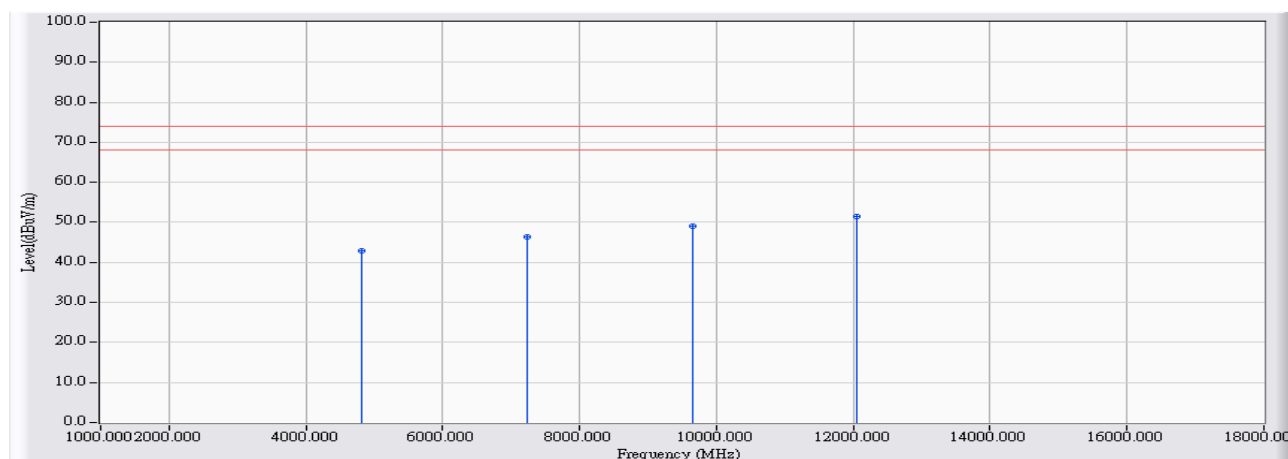
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	74.620	-27.695	58.268	30.573	-9.427	40.000	QUASIPeAK
2		181.805	-24.882	53.350	28.467	-15.033	43.500	QUASIPeAK
3		271.045	-20.778	51.952	31.174	-14.826	46.000	QUASIPeAK
4		400.055	-17.456	42.867	25.411	-20.589	46.000	QUASIPeAK
5		600.360	-14.278	38.991	24.712	-21.288	46.000	QUASIPeAK
6		800.665	-11.648	37.710	26.062	-19.938	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 : CB1	Time : 2014/08/12 - 14:02
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH1

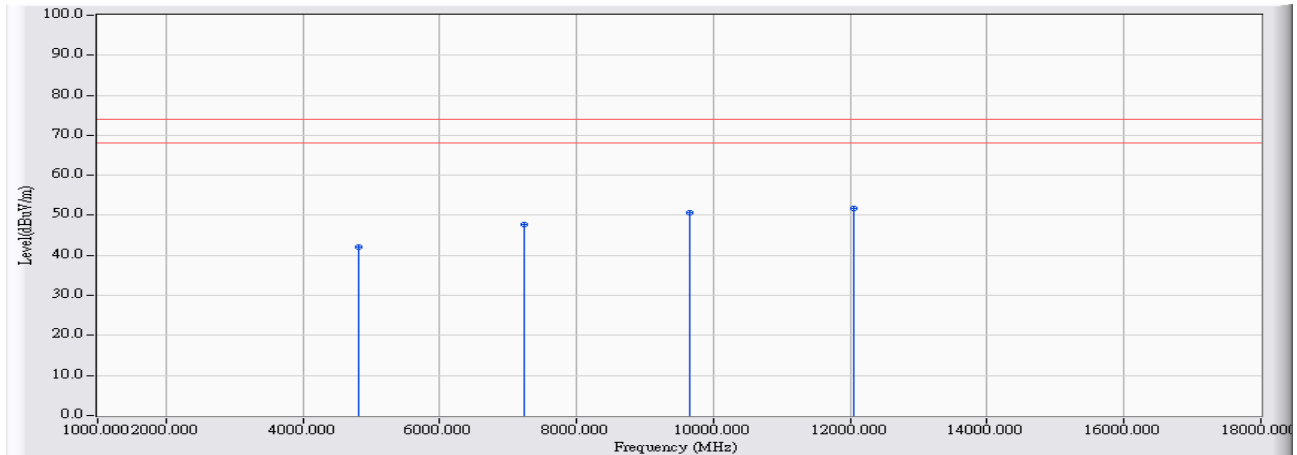


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.979	44.855	42.876	-31.124	74.000	PEAK
2		7236.000	4.173	42.299	46.472	-27.528	74.000	PEAK
3		9648.000	7.909	41.056	48.965	-25.035	74.000	PEAK
4	*	12060.000	11.272	40.259	51.531	-22.469	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 : CB1	Time : 2014/08/12 - 13:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH1

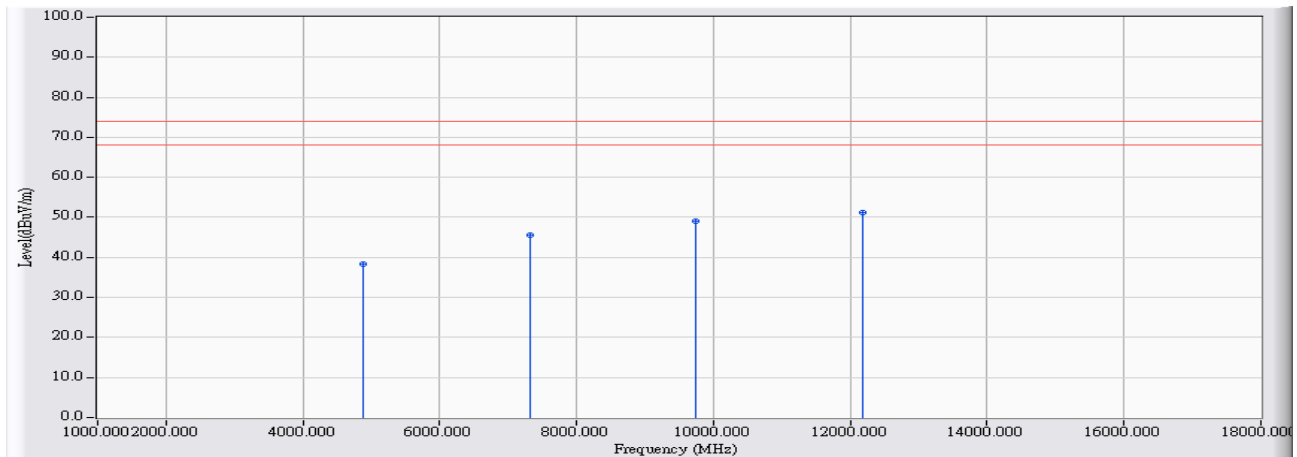


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.979	44.132	42.153	-31.847	74.000	PEAK
2		7236.000	4.173	43.505	47.678	-26.322	74.000	PEAK
3		9648.000	7.909	42.745	50.654	-23.346	74.000	PEAK
4	*	12060.000	11.272	40.462	51.734	-22.266	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 : CB1	Time : 2014/08/12 - 14:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH6

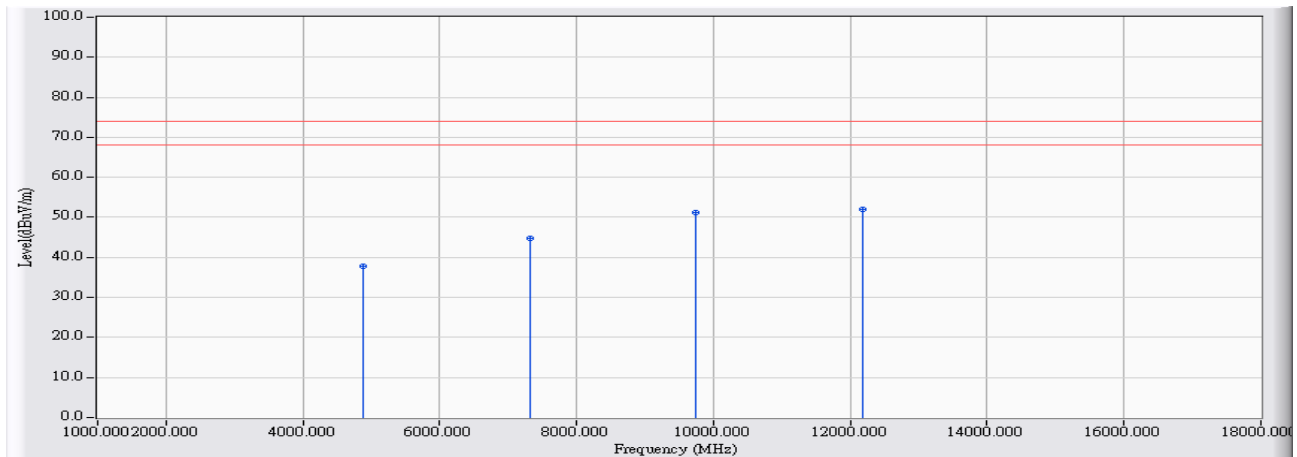


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	40.230	38.435	-35.565	74.000	PEAK
2		7311.000	4.349	41.320	45.669	-28.331	74.000	PEAK
3		9748.000	7.967	40.980	48.947	-25.053	74.000	PEAK
4	*	12185.000	11.282	40.030	51.312	-22.688	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 : CB1	Time : 2014/08/12 - 14:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH6

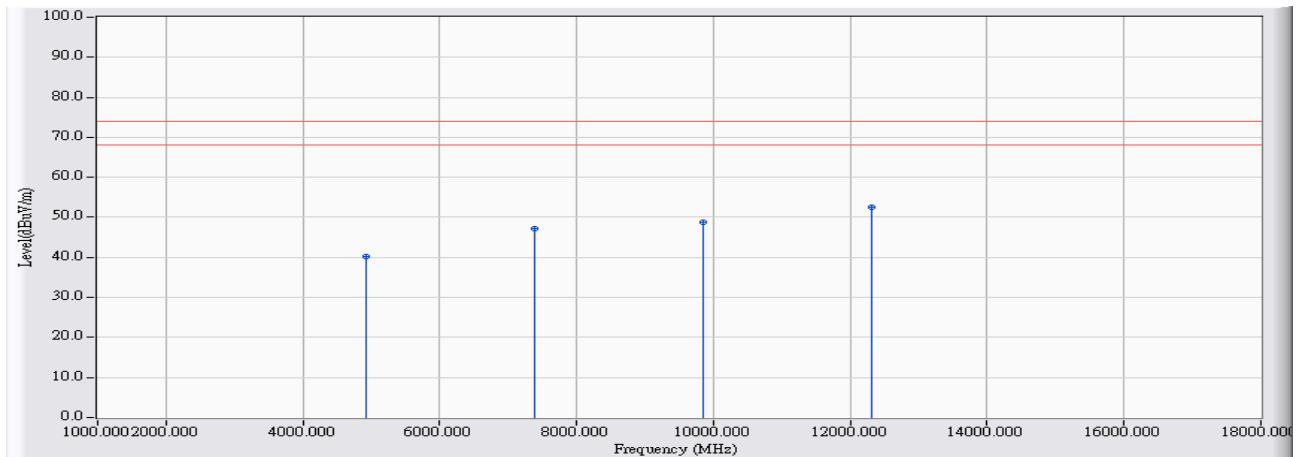


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	39.480	37.685	-36.315	74.000	PEAK
2		7311.000	4.349	40.453	44.802	-29.198	74.000	PEAK
3		9748.000	7.967	43.215	51.182	-22.818	74.000	PEAK
4	*	12185.000	11.282	40.651	51.933	-22.067	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 : CB1	Time : 2014/08/12 - 14:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH11

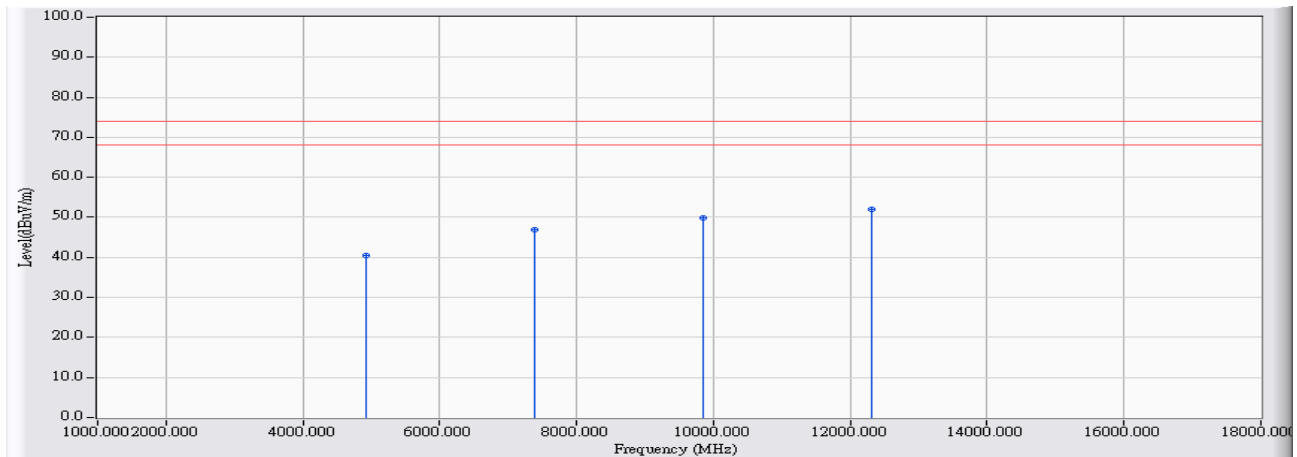


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.611	41.784	40.173	-33.827	74.000	PEAK
2		7386.000	4.524	42.786	47.310	-26.690	74.000	PEAK
3		9848.000	8.025	40.640	48.665	-25.335	74.000	PEAK
4	*	12310.000	11.292	41.372	52.664	-21.336	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 : CB1	Time : 2014/08/12 - 14:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11b CH11

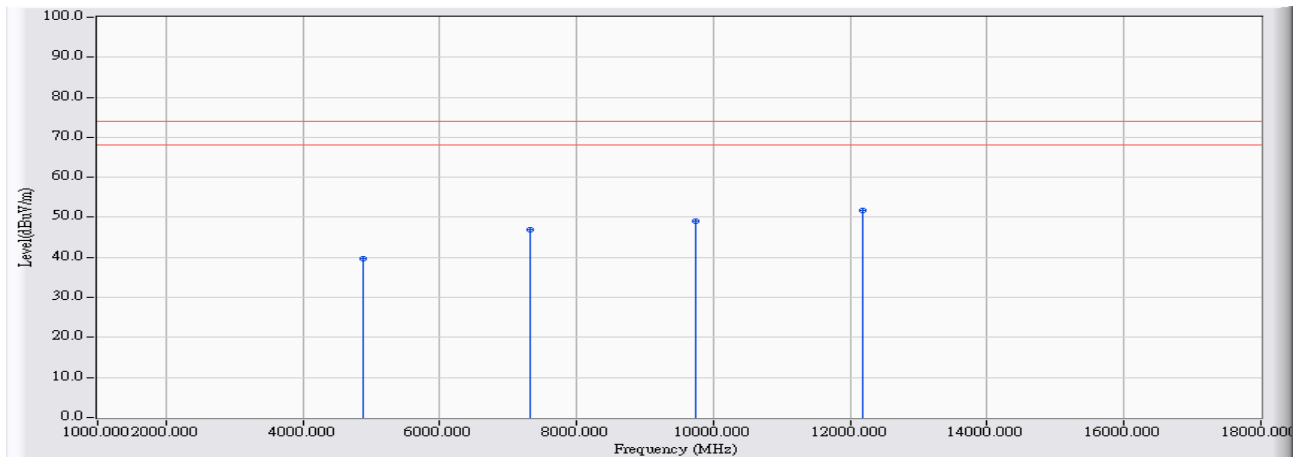


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	32.580	42.140	40.529	-33.471	74.000	PEAK
2		7386.000	38.801	42.433	46.957	-27.043	74.000	PEAK
3		9848.000	41.564	41.870	49.895	-24.105	74.000	PEAK
4	*	12310.000	42.544	40.823	52.115	-21.885	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 : CB1	Time : 2014/08/12 - 14:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH1

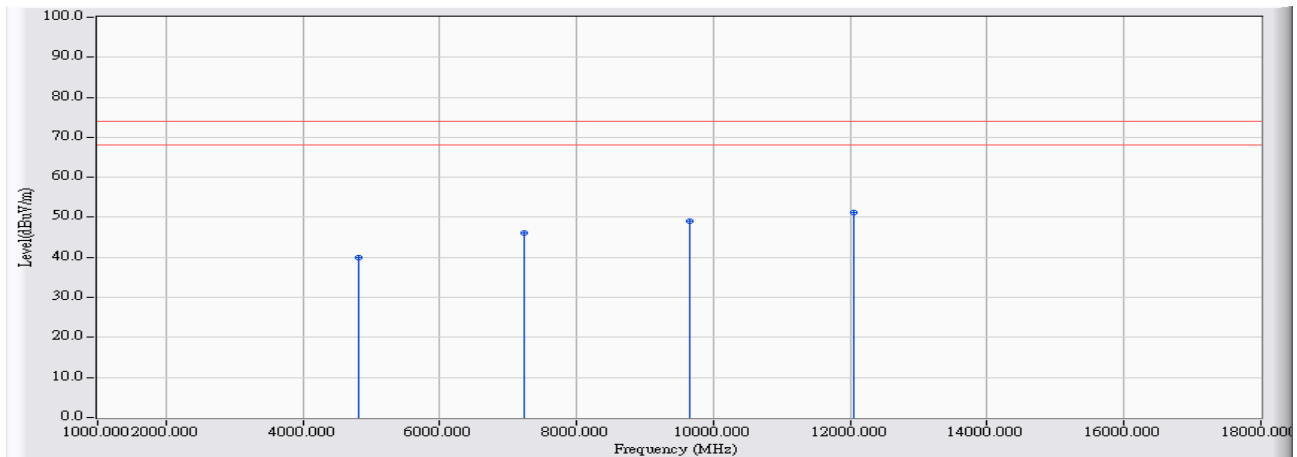


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	41.589	39.794	-34.206	74.000	PEAK
2		7311.000	4.349	42.645	46.994	-27.006	74.000	PEAK
3		9748.000	7.967	41.156	49.123	-24.877	74.000	PEAK
4	*	12185.000	11.282	40.568	51.850	-22.150	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 : CB1	Time : 2014/08/12 - 14:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH1

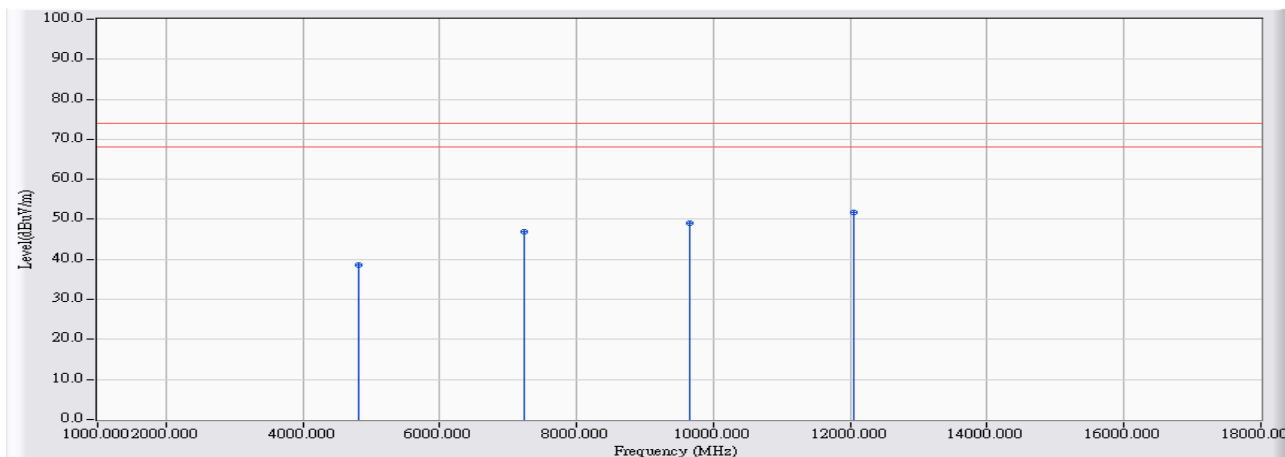


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.979	42.023	40.044	-33.956	74.000	PEAK
2		7236.000	4.173	42.020	46.193	-27.807	74.000	PEAK
3		9648.000	7.909	41.214	49.123	-24.877	74.000	PEAK
4	*	12060.000	11.272	39.874	51.146	-22.854	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 : CB1	Time : 2014/08/12 - 14:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH6

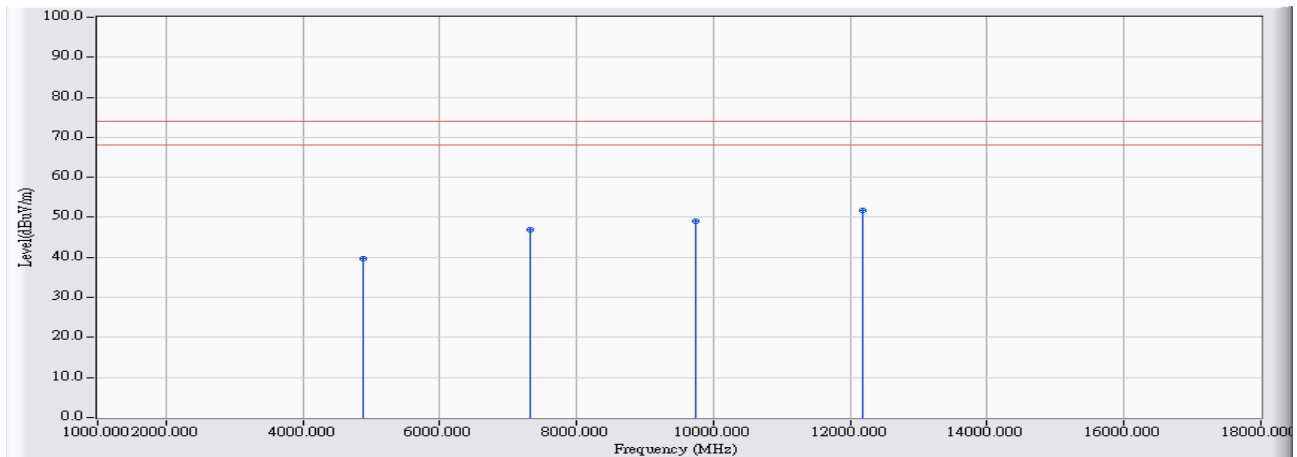


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4824.000	32.332	40.562	38.583	-35.417	74.000	PEAK
2	7236.000	38.420	42.869	47.042	-26.958	74.000	PEAK
3	9648.000	41.368	41.254	49.163	-24.837	74.000	PEAK
4	* 12060.000	42.724	40.567	51.839	-22.161	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 : CB1	Time : 2014/08/12 - 14:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH6

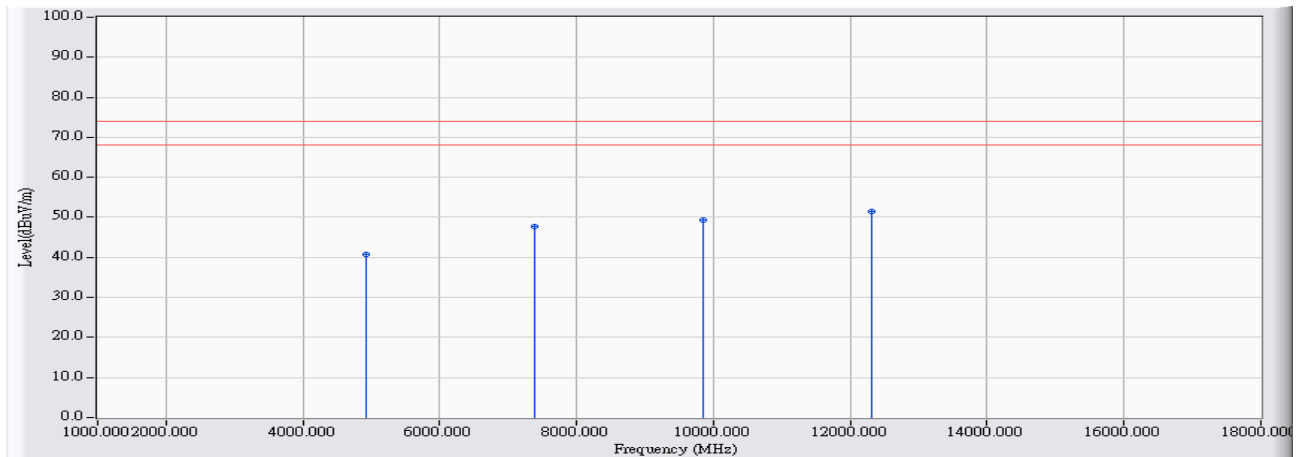


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	41.589	39.794	-34.206	74.000	PEAK
2		7311.000	4.349	42.645	46.994	-27.006	74.000	PEAK
3		9748.000	7.967	41.156	49.123	-24.877	74.000	PEAK
4	*	12185.000	11.282	40.568	51.850	-22.150	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 : CB1	Time : 2014/08/12 - 14:28
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH11

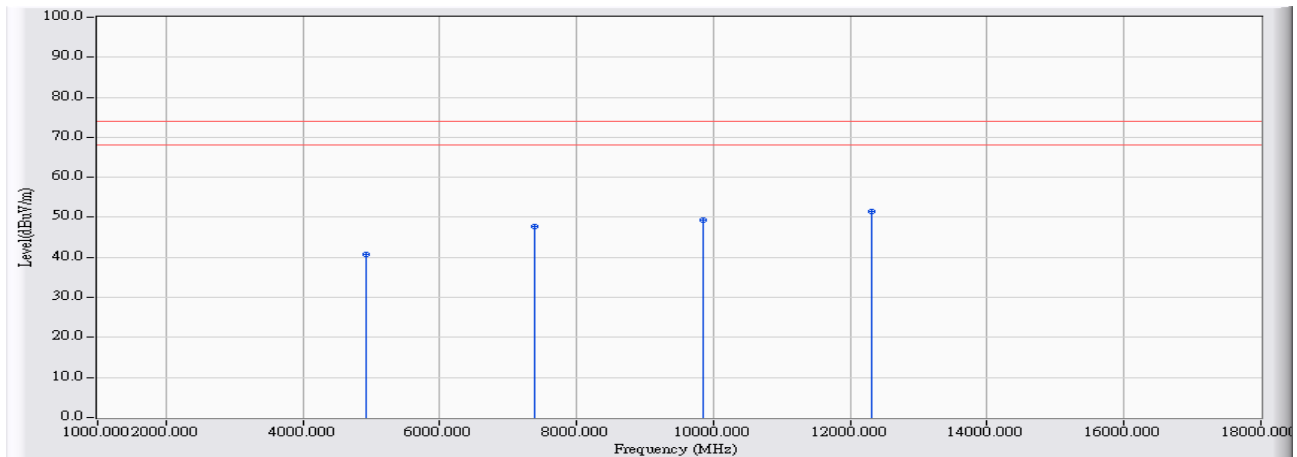


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4924.000	-1.611	42.450	40.839	-33.161	74.000	PEAK
2	7386.000	4.524	43.230	47.754	-26.246	74.000	PEAK
3	9848.000	8.025	41.432	49.457	-24.543	74.000	PEAK
4	* 12310.000	11.292	40.239	51.531	-22.469	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 : CB1	Time : 2014/08/12 - 14:28
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11g CH11

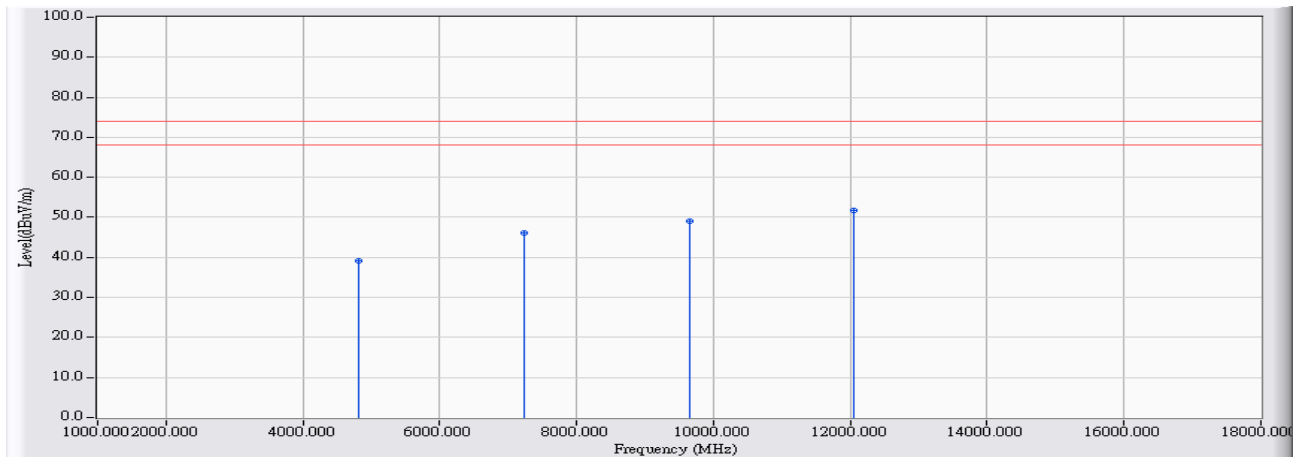


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.611	42.450	40.839	-33.161	74.000	PEAK
2		7386.000	4.524	43.230	47.754	-26.246	74.000	PEAK
3		9848.000	8.025	41.432	49.457	-24.543	74.000	PEAK
4	*	12310.000	11.292	40.239	51.531	-22.469	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 : CB1	Time : 2014/08/12 - 15:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH1

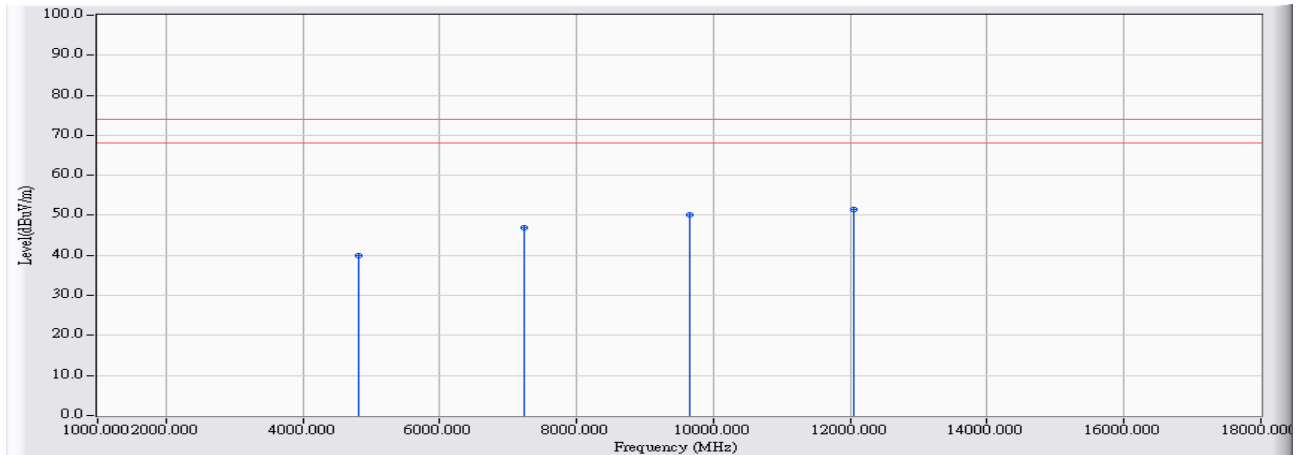


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.979	41.000	39.021	-34.979	74.000	PEAK
2		7236.000	4.173	41.987	46.160	-27.840	74.000	PEAK
3		9648.000	7.909	41.249	49.158	-24.842	74.000	PEAK
4	*	12060.000	11.272	40.549	51.821	-22.179	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 : CB1	Time : 2014/08/12 - 14:57
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH1

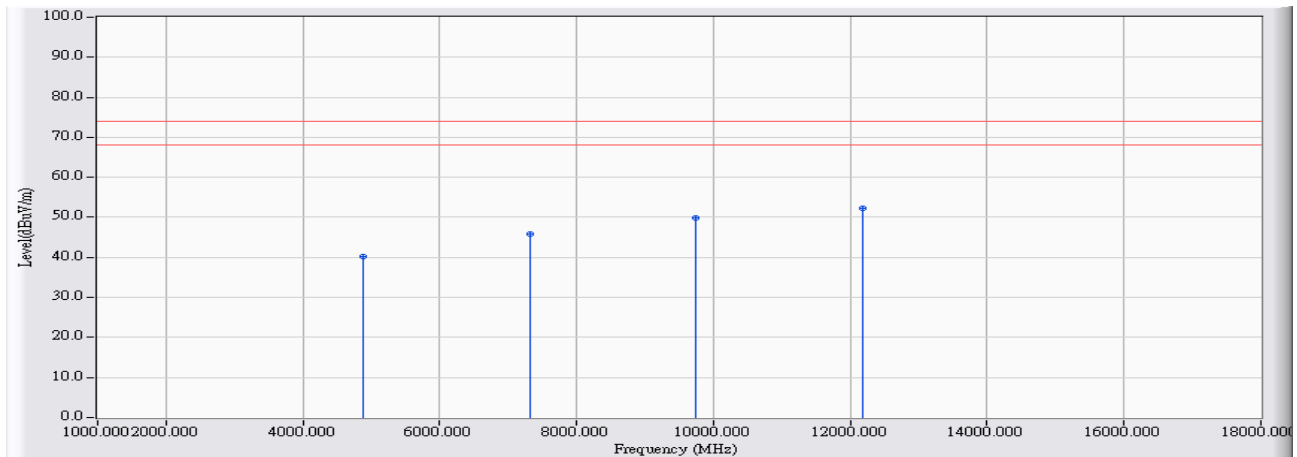


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.979	41.891	39.912	-34.088	74.000	PEAK
2		7236.000	4.173	42.710	46.883	-27.117	74.000	PEAK
3		9648.000	7.909	42.158	50.067	-23.933	74.000	PEAK
4	*	12060.000	11.272	40.254	51.526	-22.474	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 : CB1	Time : 2014/08/12 - 15:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH6

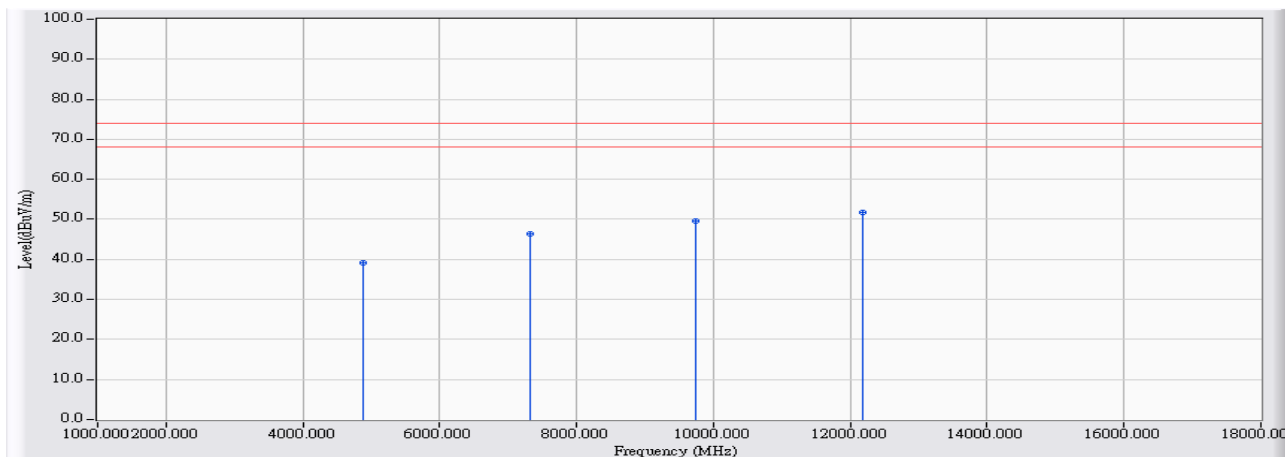


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	42.058	40.263	-33.737	74.000	PEAK
2		7311.000	4.349	41.479	45.828	-28.172	74.000	PEAK
3		9748.000	7.967	42.021	49.988	-24.012	74.000	PEAK
4	*	12185.000	11.282	41.058	52.340	-21.660	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 : CB1	Time : 2014/08/12 - 15:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH6

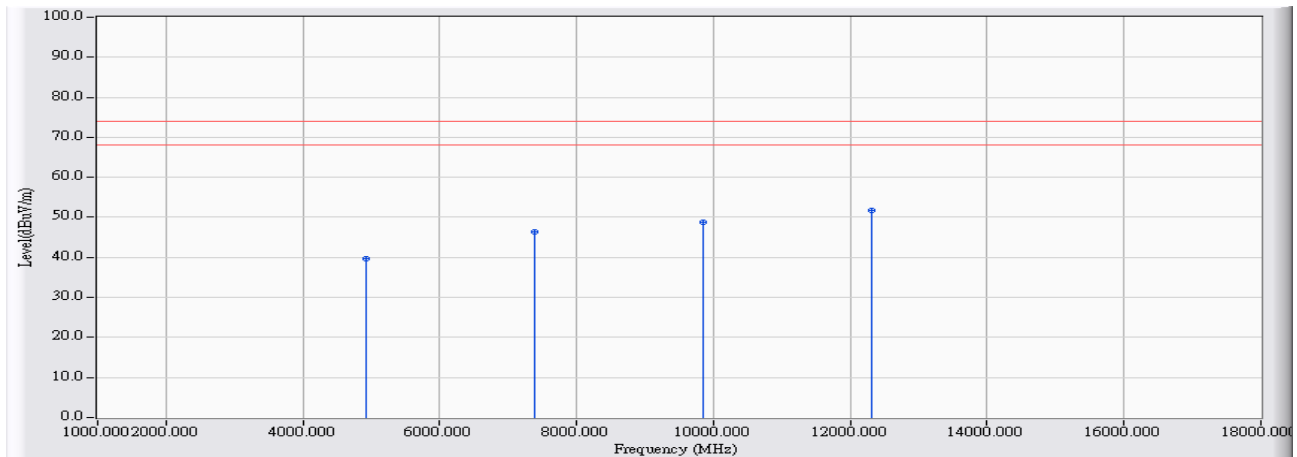


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	40.850	39.055	-34.945	74.000	PEAK
2		7311.000	4.349	41.970	46.319	-27.681	74.000	PEAK
3		9748.000	7.967	41.580	49.547	-24.453	74.000	PEAK
4	*	12185.000	11.282	40.542	51.824	-22.176	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 : CB1	Time : 2014/08/12 - 15:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH11

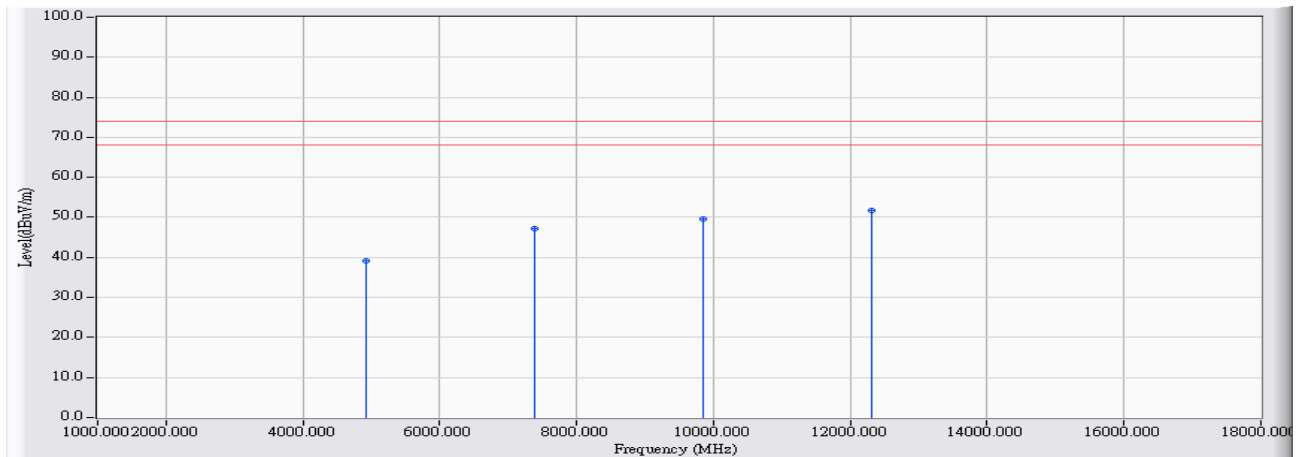


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.611	41.187	39.576	-34.424	74.000	PEAK
2		7386.000	4.524	41.987	46.511	-27.489	74.000	PEAK
3		9848.000	8.025	40.890	48.915	-25.085	74.000	PEAK
4	*	12310.000	11.292	40.512	51.804	-22.196	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 : CB1	Time : 2014/08/12 - 15:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n20 CH11

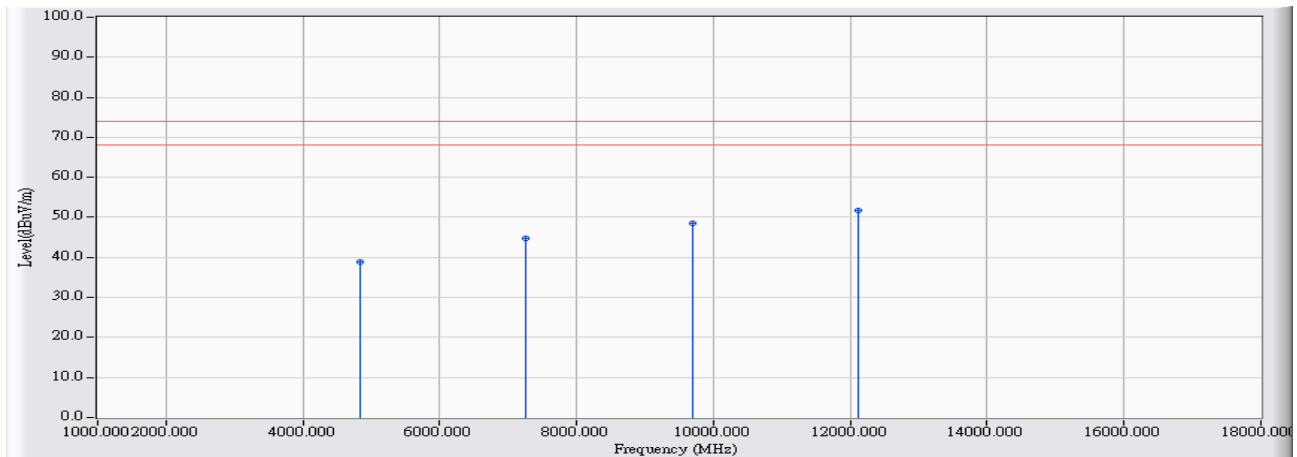


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.611	40.684	39.073	-34.927	74.000	PEAK
2		7386.000	4.524	42.654	47.178	-26.822	74.000	PEAK
3		9848.000	8.025	41.590	49.615	-24.385	74.000	PEAK
4	*	12310.000	11.292	40.462	51.754	-22.246	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 : CB1	Time : 2014/08/12 - 15:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH3

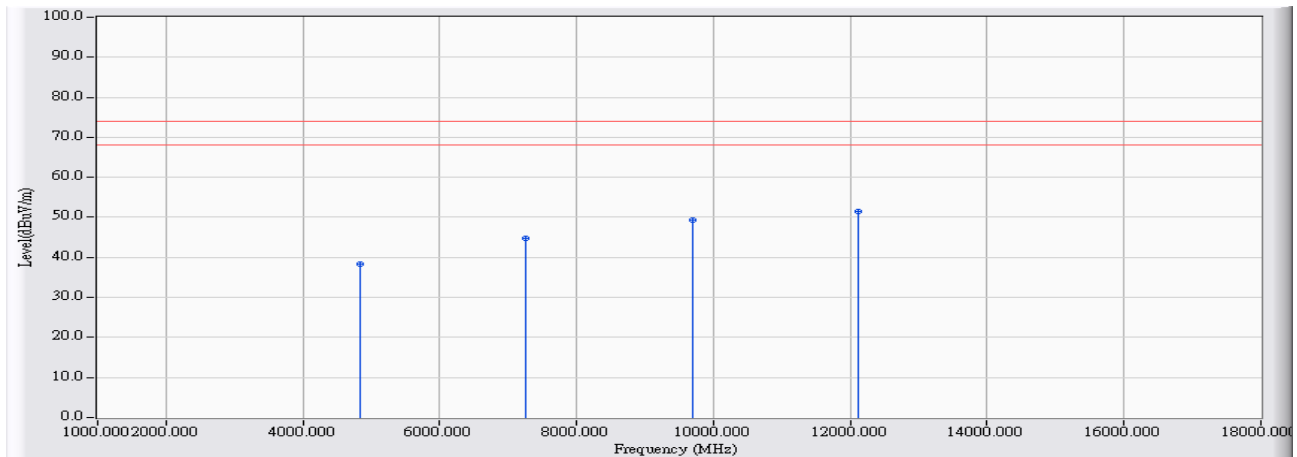


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4844.000	-1.905	40.730	38.825	-35.175	74.000	PEAK
2	7266.000	4.243	40.650	44.893	-29.107	74.000	PEAK
3	9688.000	7.932	40.540	48.472	-25.528	74.000	PEAK
4	* 12110.000	11.276	40.420	51.696	-22.304	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 : CB1	Time : 2014/08/12 - 15:21
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH3

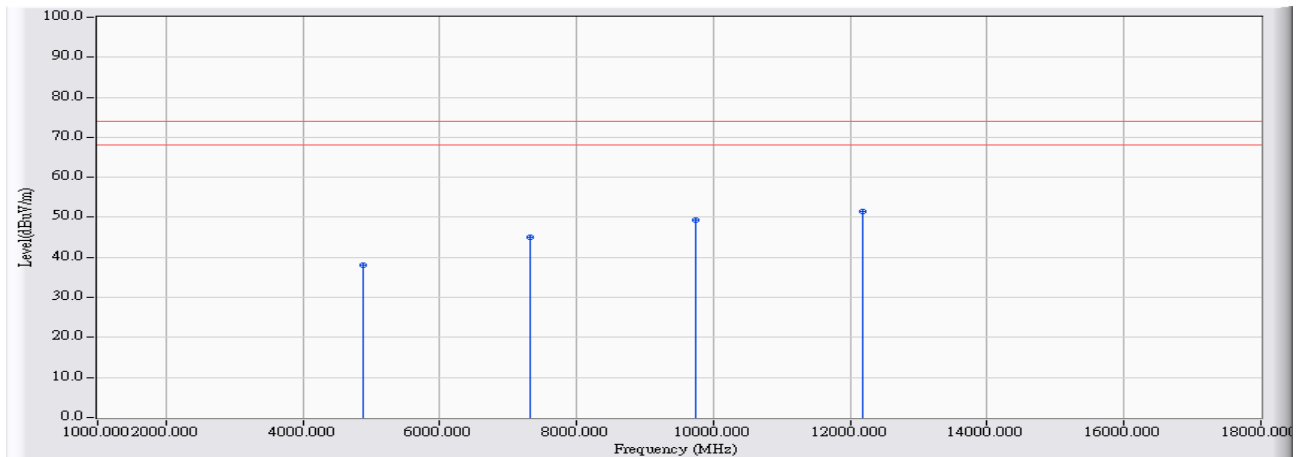


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4844.000	-1.905	40.134	38.229	-35.771	74.000	PEAK
2	7266.000	4.243	40.560	44.803	-29.197	74.000	PEAK
3	9688.000	7.932	41.404	49.336	-24.664	74.000	PEAK
4	* 12110.000	11.276	40.076	51.352	-22.648	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 : CB1	Time : 2014/08/12 - 15:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH6

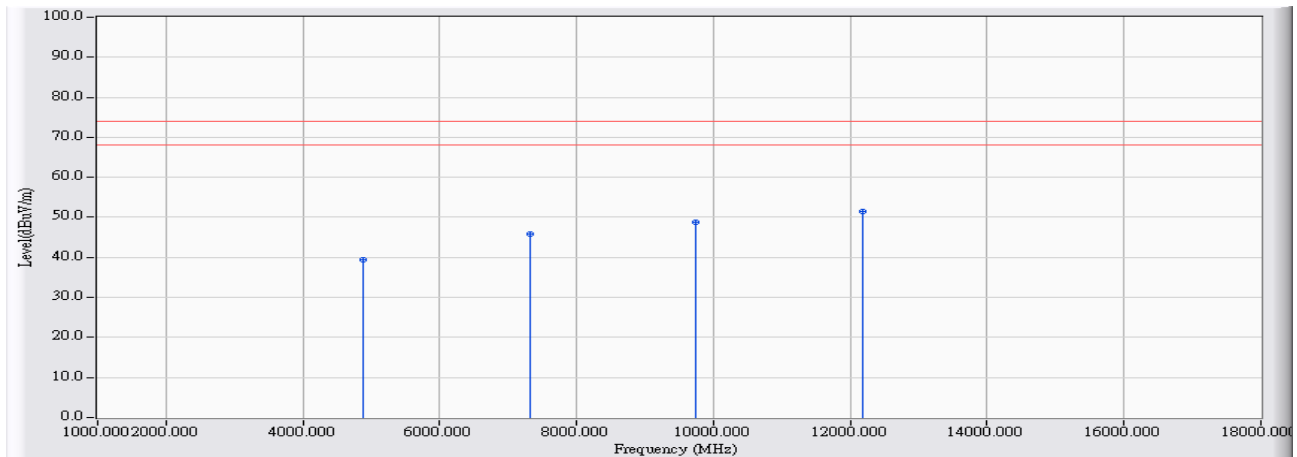


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	39.970	38.175	-35.825	74.000	PEAK
2		7311.000	4.349	40.670	45.019	-28.981	74.000	PEAK
3		9748.000	7.967	41.268	49.235	-24.765	74.000	PEAK
4	*	12185.000	11.282	40.150	51.432	-22.568	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 : CB1	Time : 2014/08/12 - 15:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH6

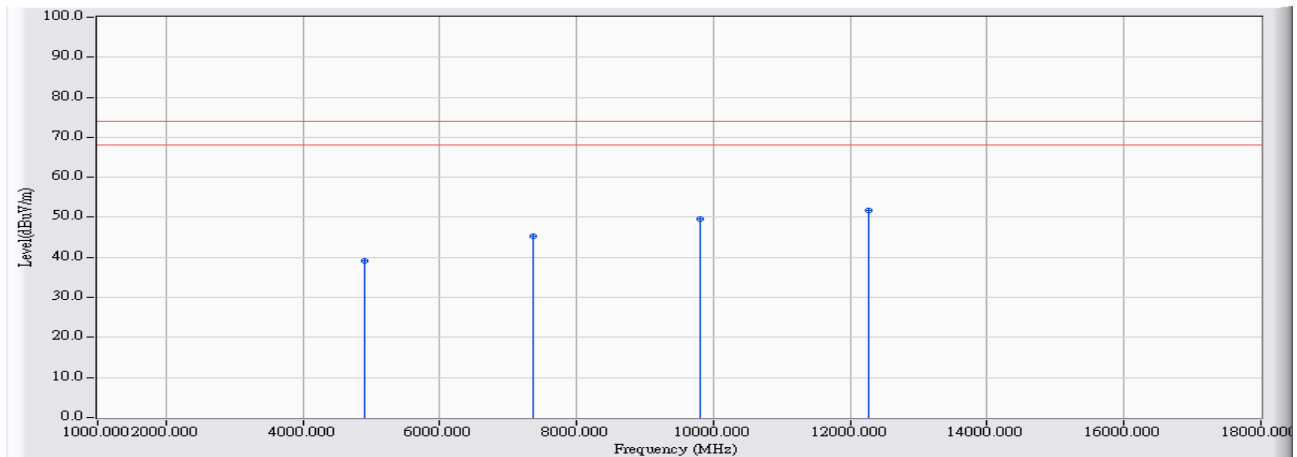


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.795	41.145	39.350	-34.650	74.000	PEAK
2		7311.000	4.349	41.550	45.899	-28.101	74.000	PEAK
3		9748.000	7.967	40.745	48.712	-25.288	74.000	PEAK
4	*	12185.000	11.282	40.150	51.432	-22.568	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 : CB1	Time : 2014/08/12 - 15:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH9

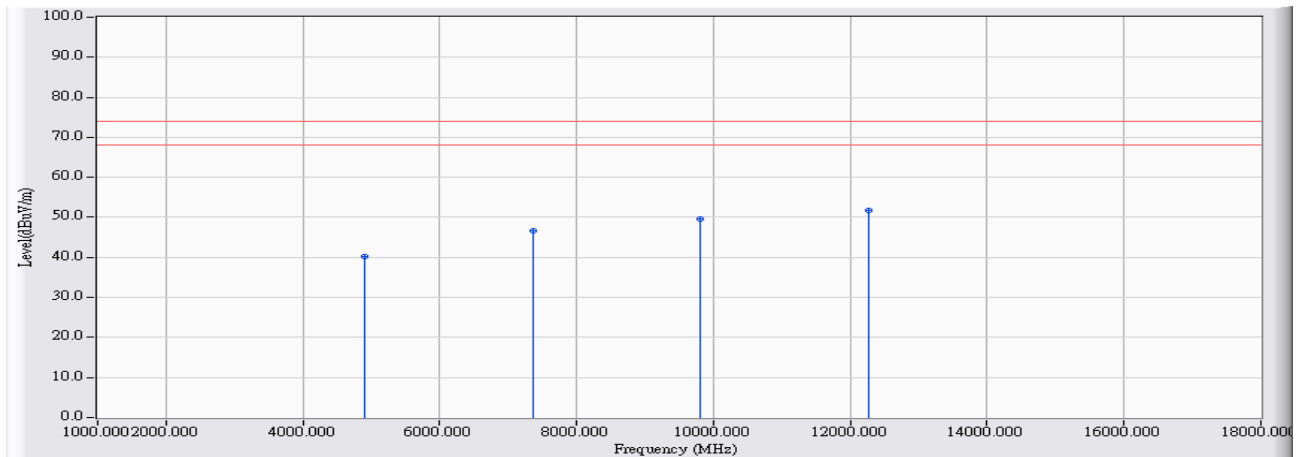


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-1.685	40.820	39.135	-34.865	74.000	PEAK
2		7356.000	4.454	40.790	45.244	-28.756	74.000	PEAK
3		9808.000	8.002	41.690	49.692	-24.308	74.000	PEAK
4	*	12260.000	11.288	40.554	51.842	-22.158	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 : CB1	Time : 2014/08/12 - 15:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : 802.11n40 CH9



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-1.685	41.980	40.295	-33.705	74.000	PEAK
2		7356.000	4.454	42.124	46.578	-27.422	74.000	PEAK
3		9808.000	8.002	41.542	49.544	-24.456	74.000	PEAK
4	*	12260.000	11.288	40.540	51.828	-22.172	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:

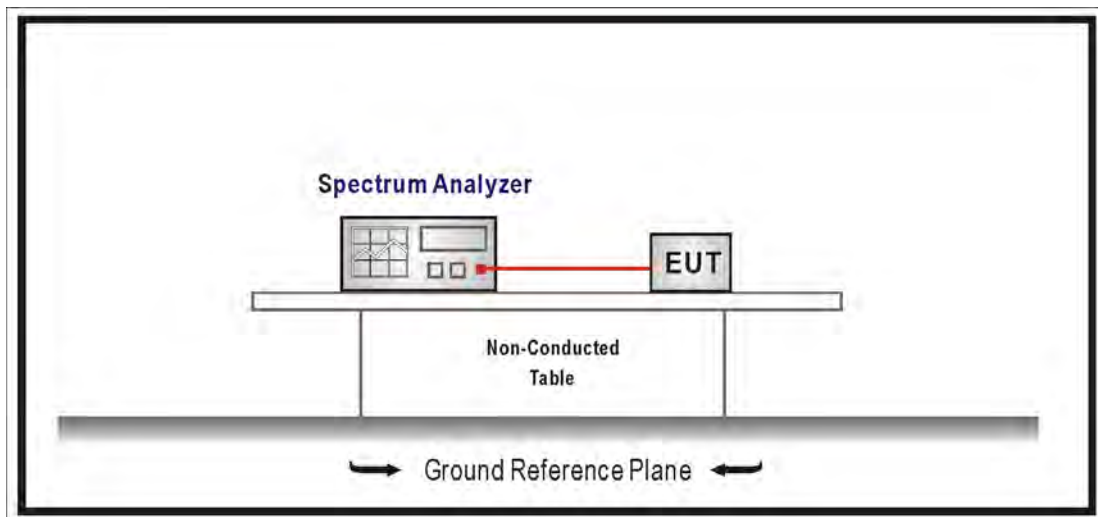
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

Note: 1. 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 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 an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements Set RBW = 100 kHz, Set VBW $\geq$ 3xRBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

5.6. Uncertainty

Conducted is defined as ± 1.27 dB

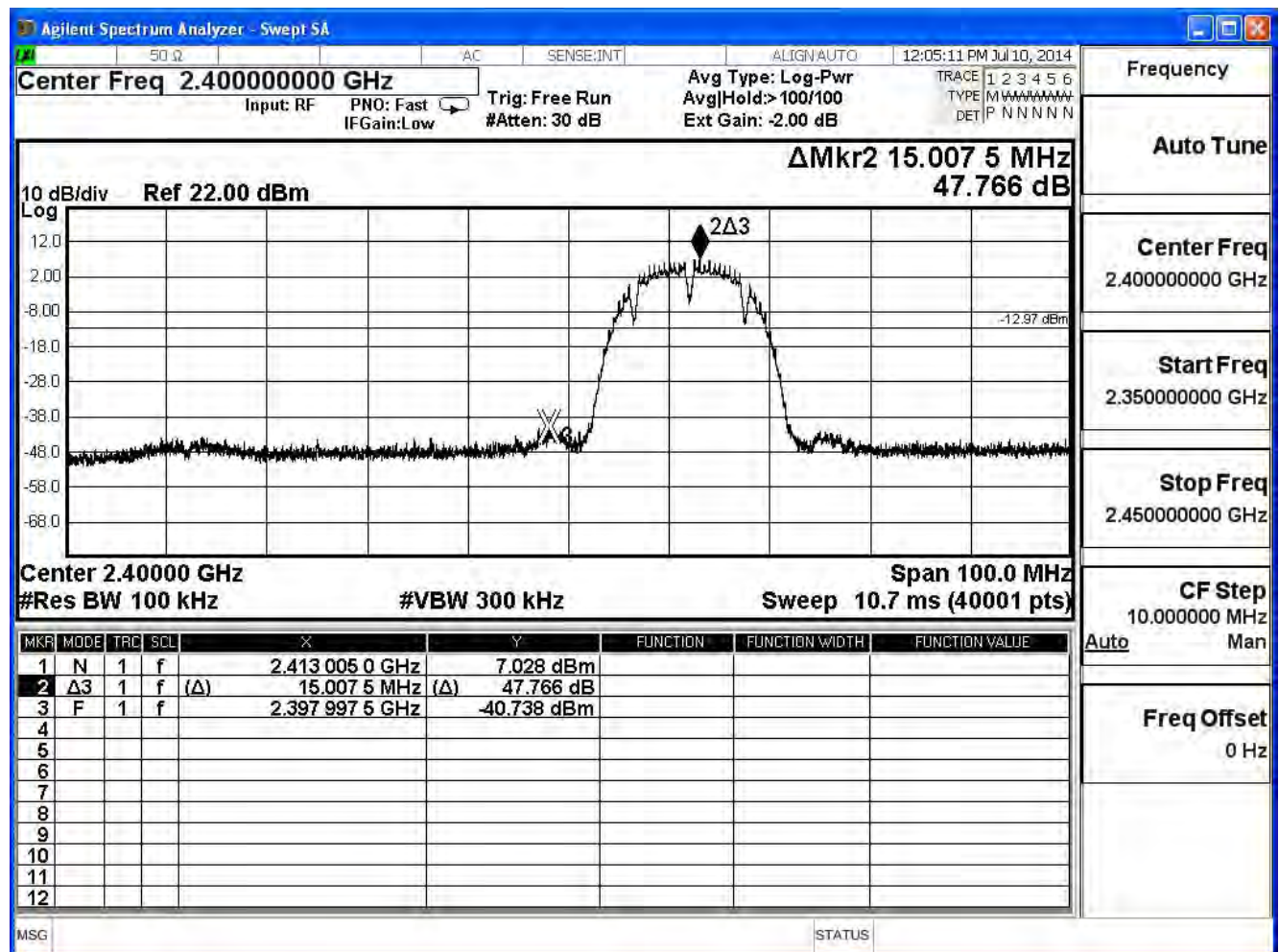
5.7. Test Result

Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

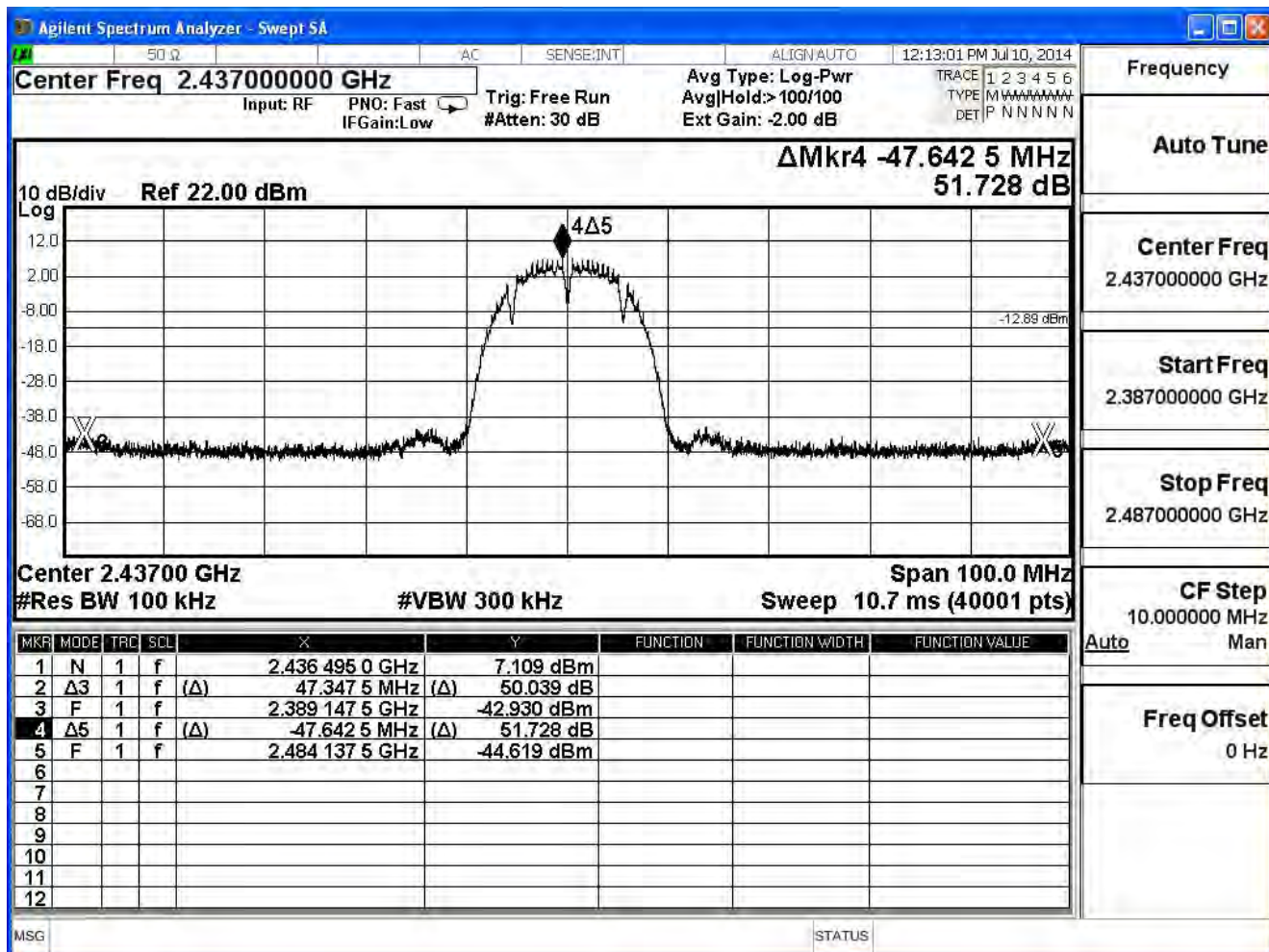
IEEE 802.11b, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	47.766	≥ 20	Pass
6	2437	50.039	≥ 20	Pass
11	2462	51.604	≥ 20	Pass

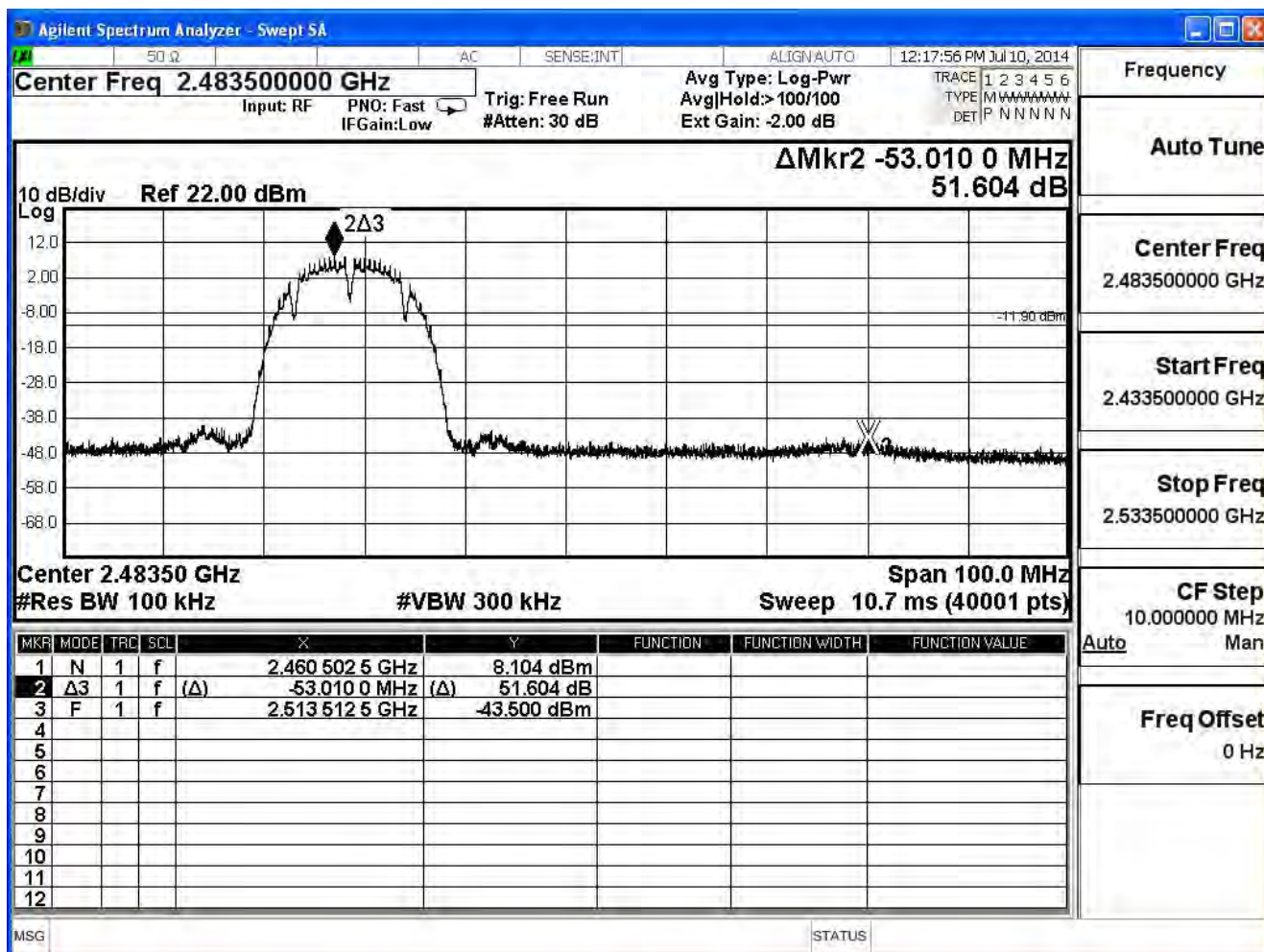
Channel 01 (2412MHz)



Channel 06 (2437MHz)



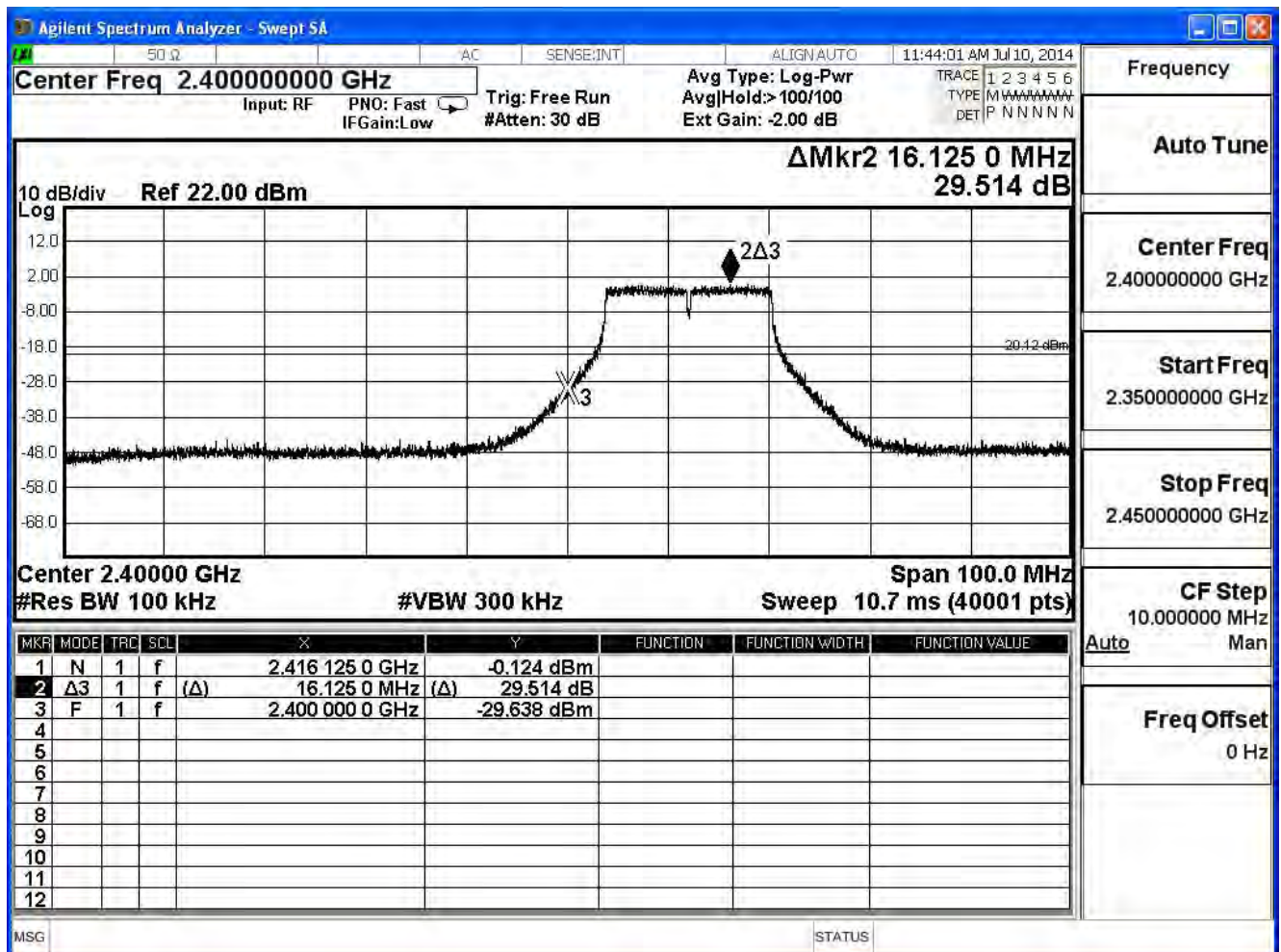
Channel 11 (2462MHz)



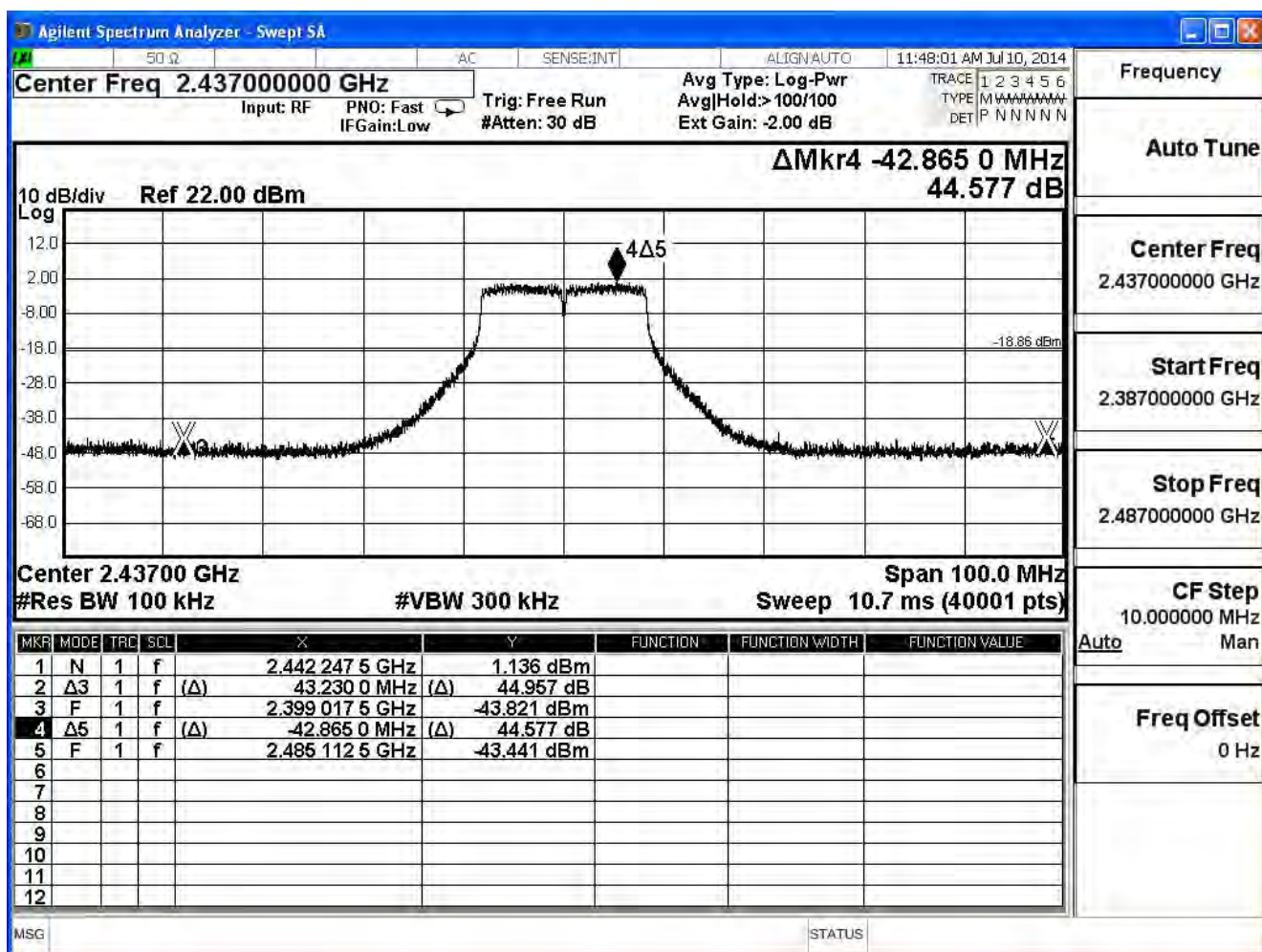
Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

IEEE 802.11g, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	29.514	≥ 20	Pass
6	2437	44.577	≥ 20	Pass
11	2462	46.459	≥ 20	Pass

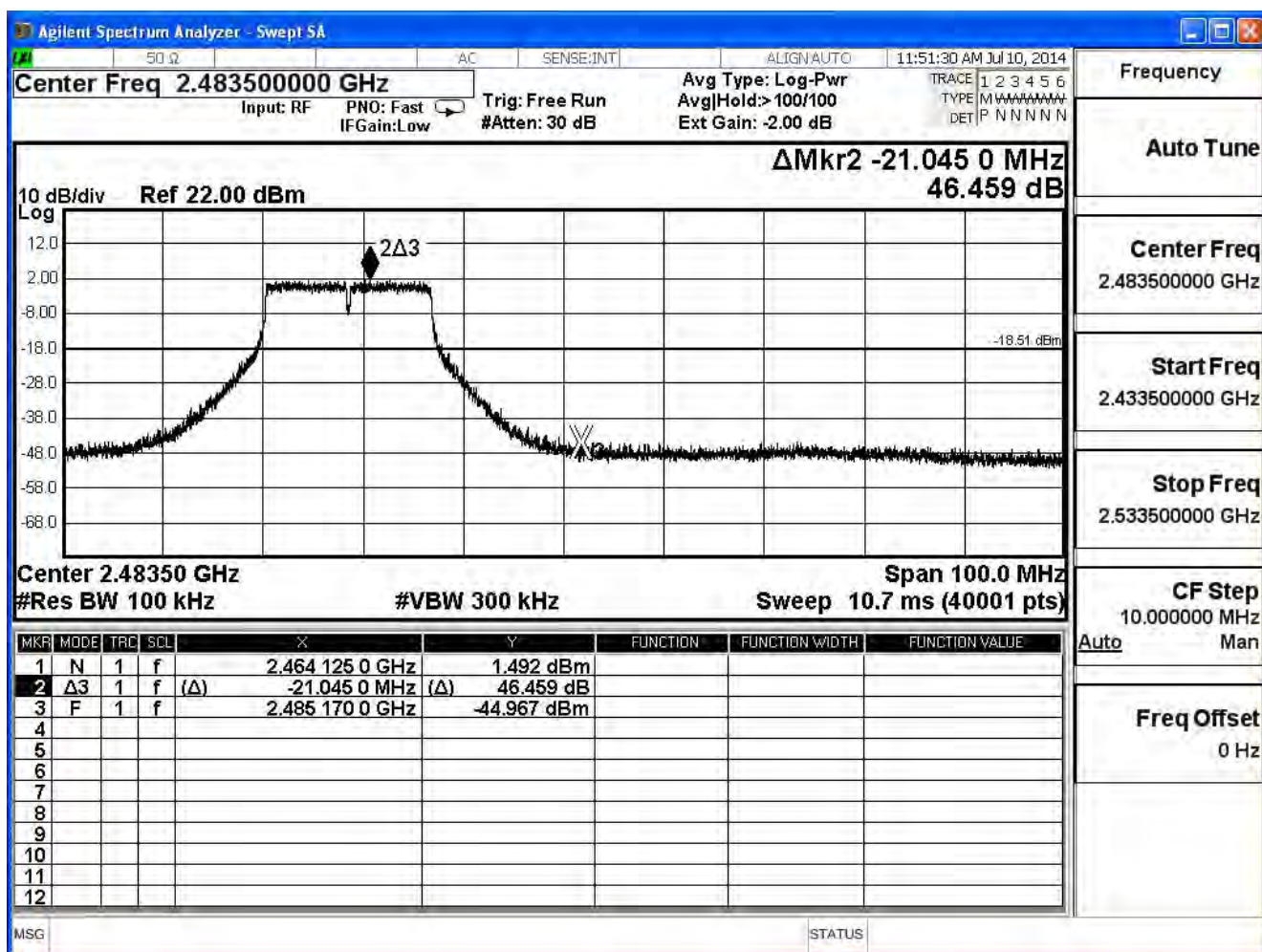
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

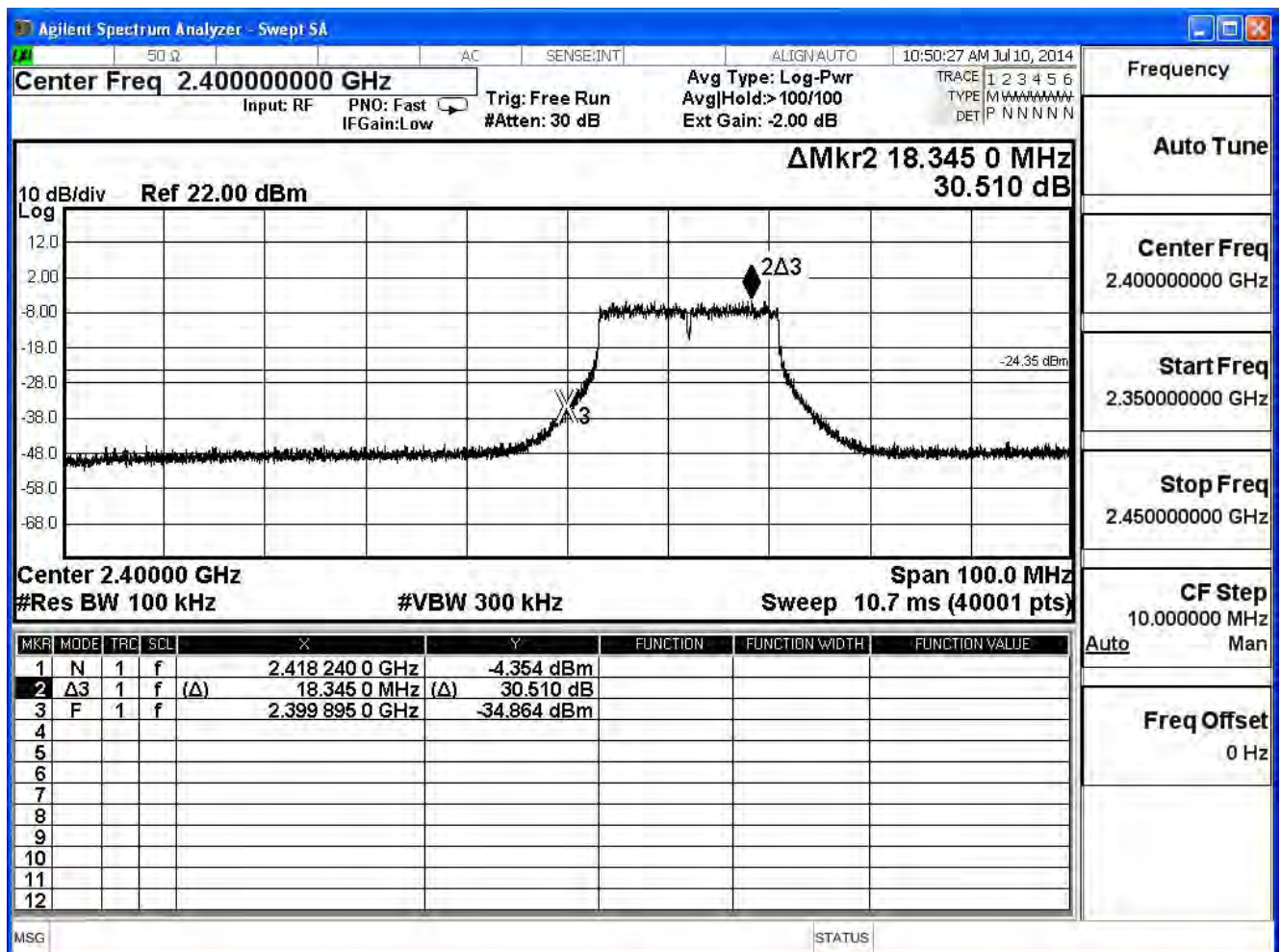


Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

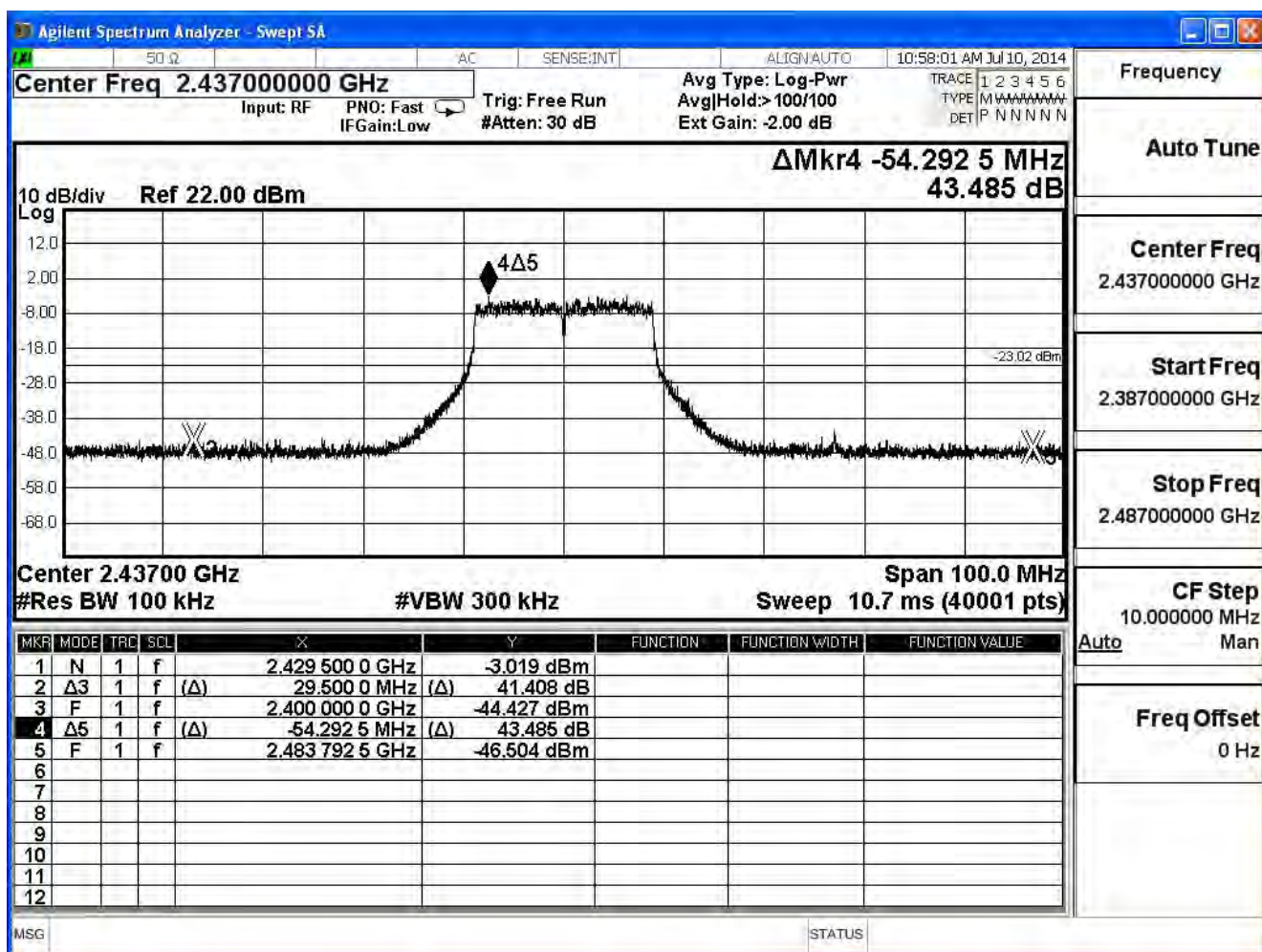
IEEE 802.11n (20MHz), ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.510	≥ 20	Pass
6	2437	41.408	≥ 20	Pass
11	2462	40.969	≥ 20	Pass

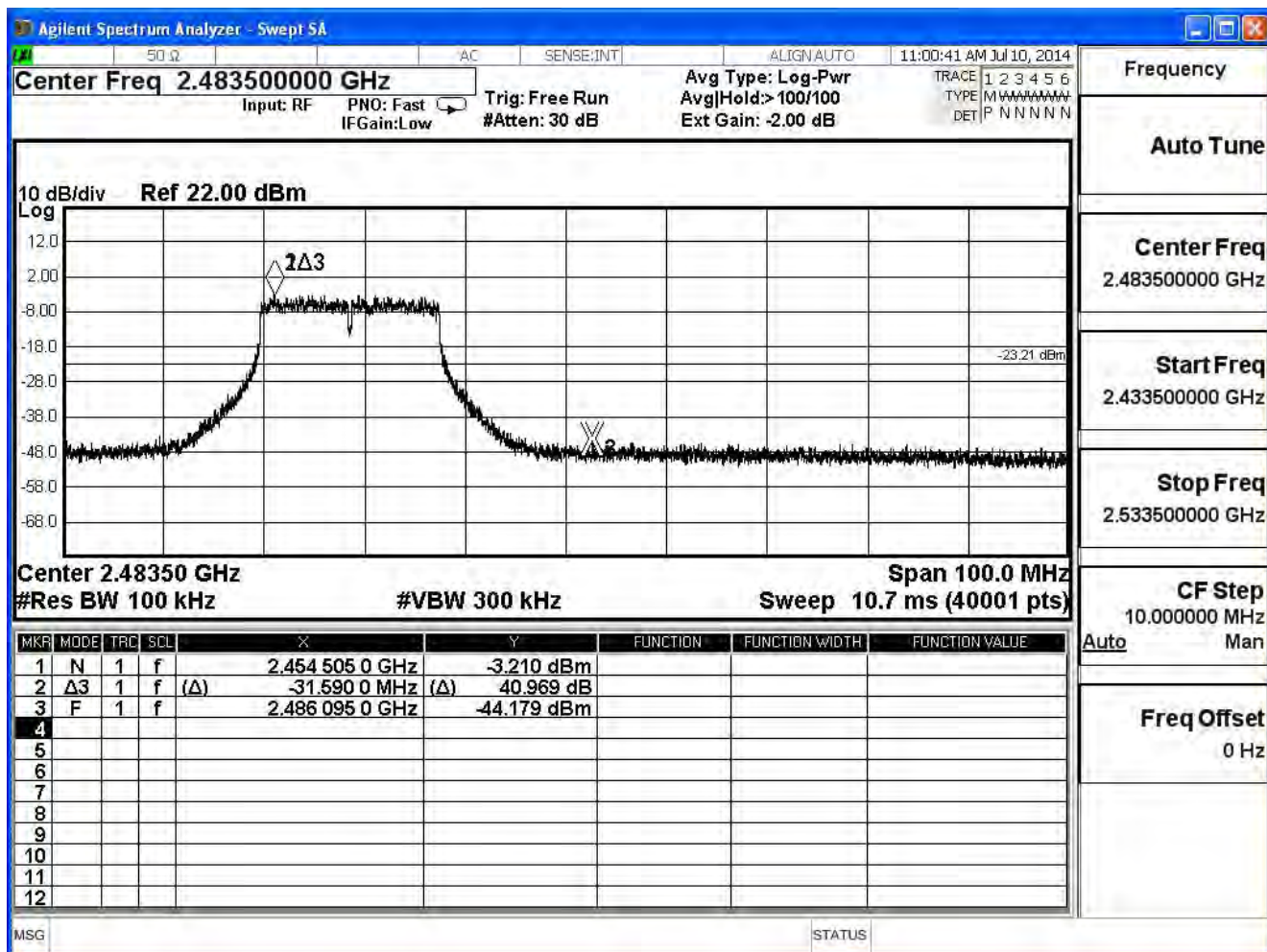
Channel 1 (2412MHz)



Channel 6 (2437MHz)



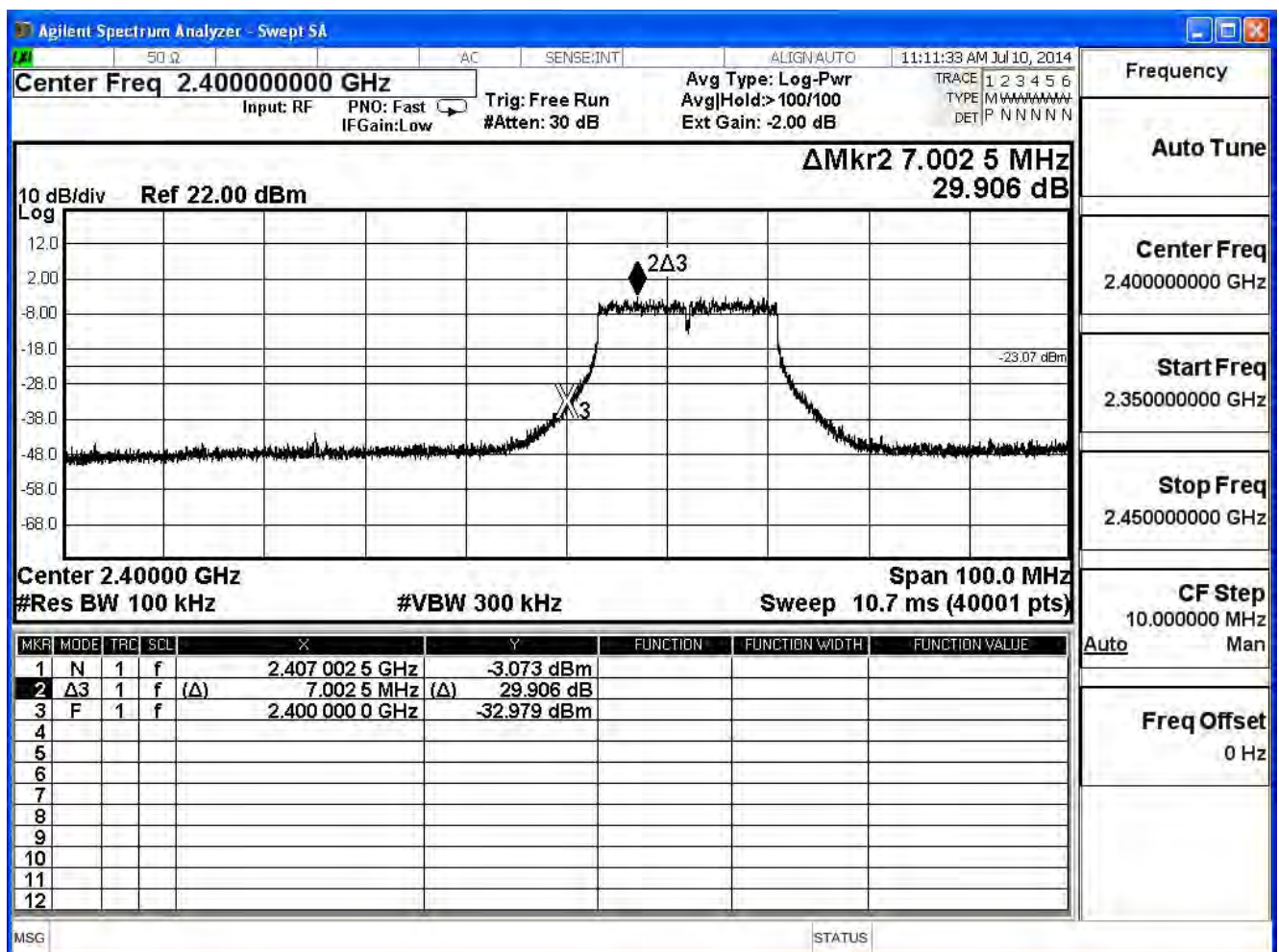
Channel 11 (2462MHz)



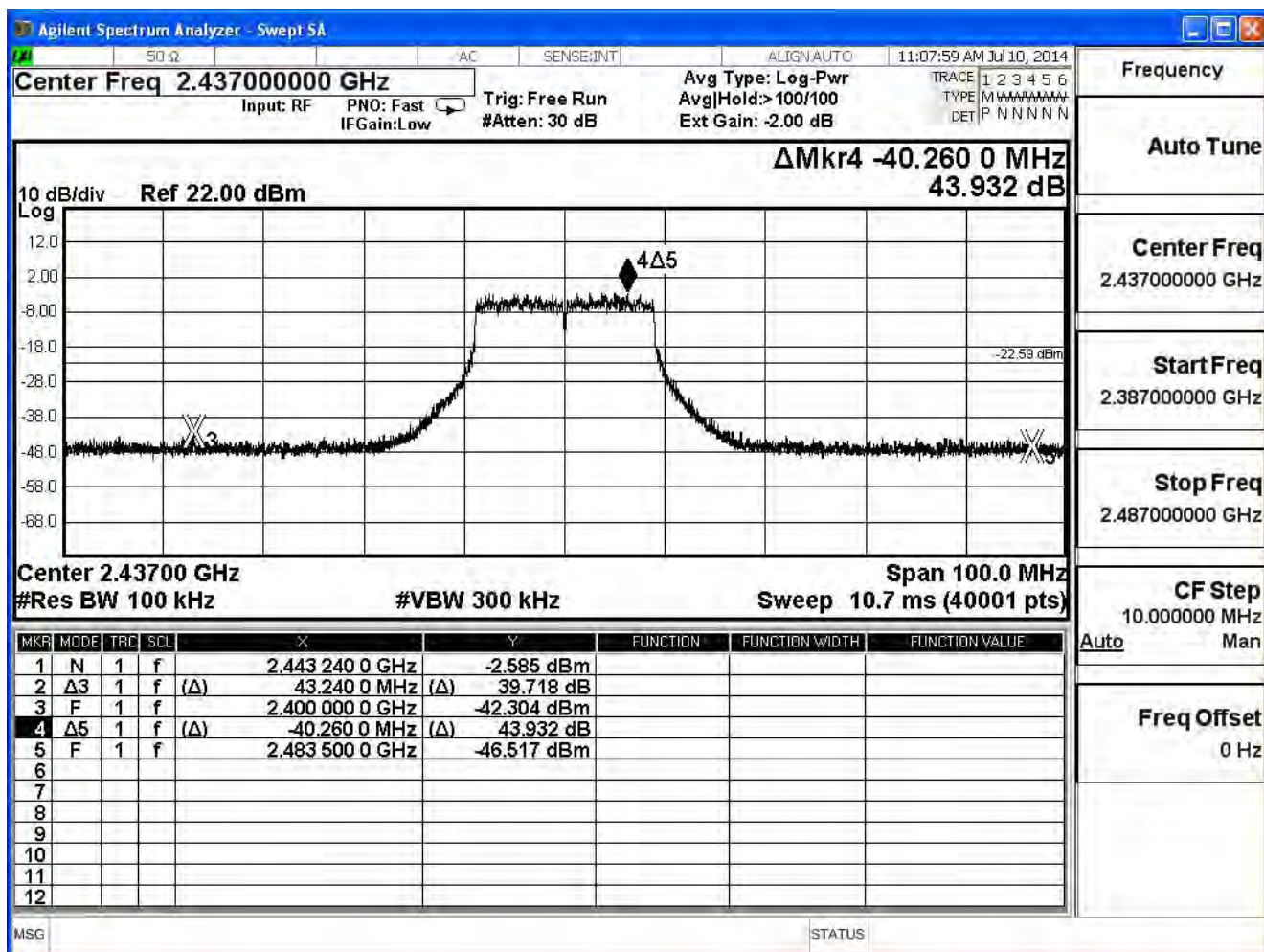
Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

IEEE 802.11n (20MHz), ANT 1, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	29.906	≥ 20	Pass
6	2437	39.718	≥ 20	Pass
11	2462	40.583	≥ 20	Pass

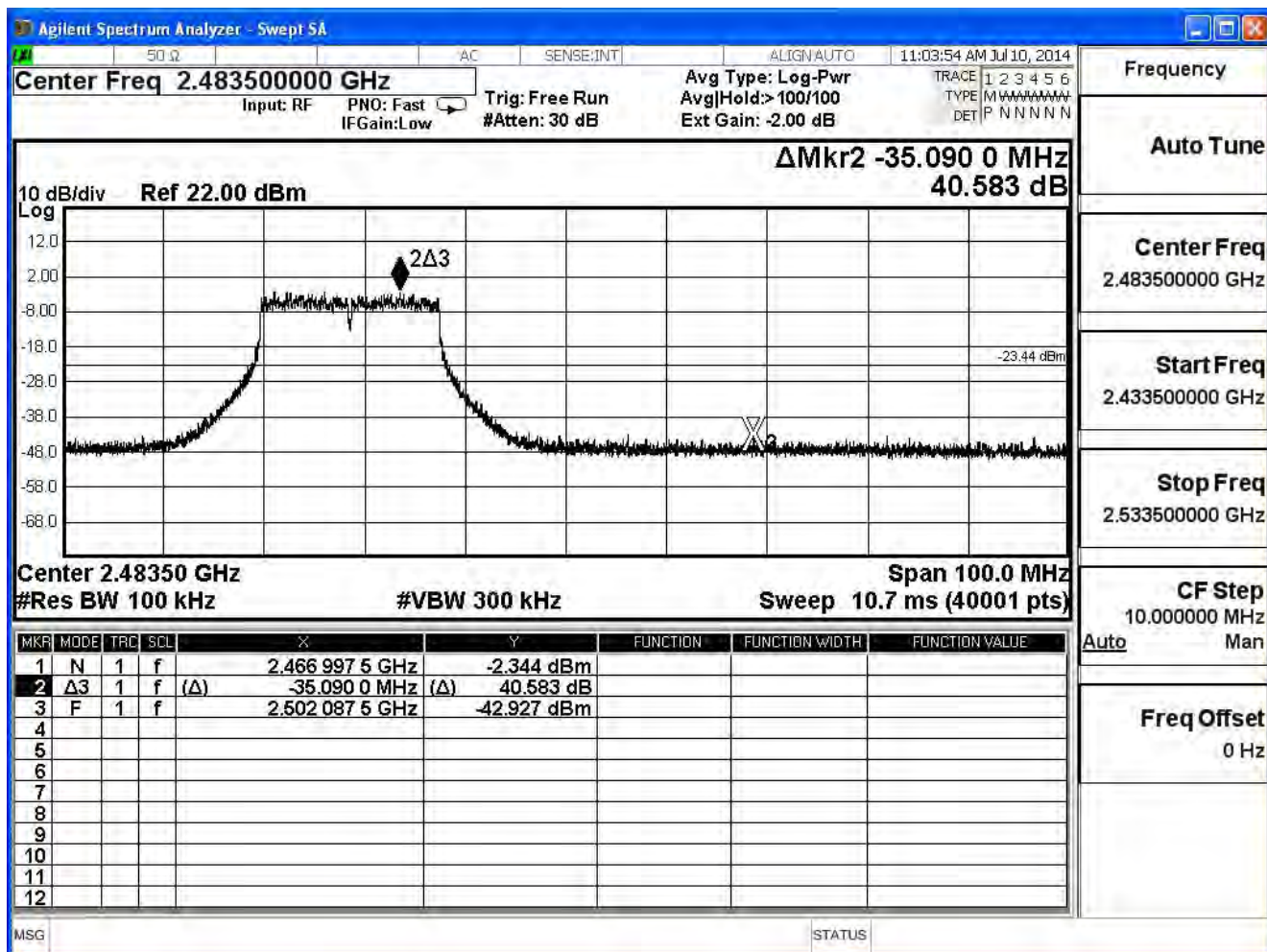
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

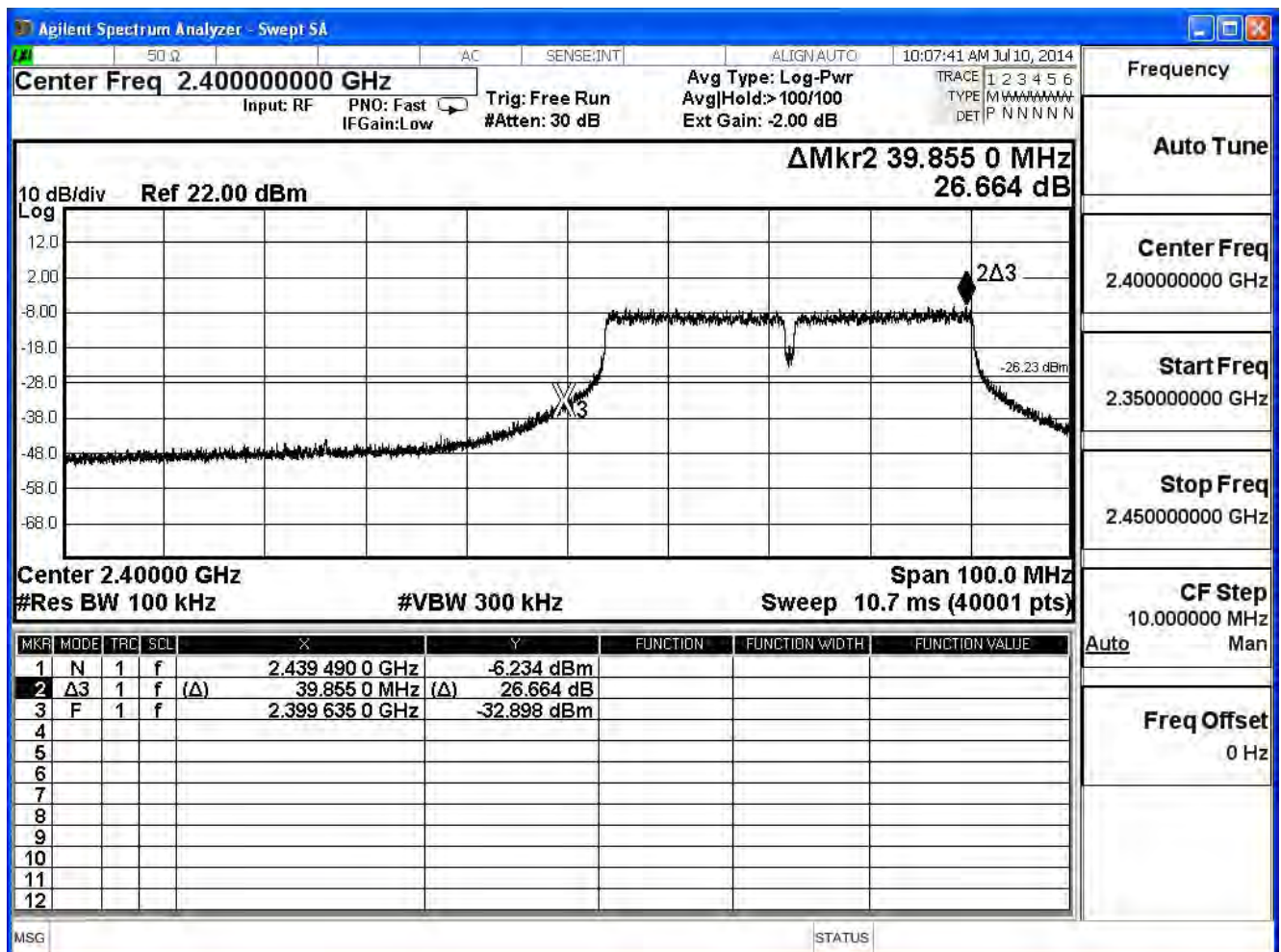


Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

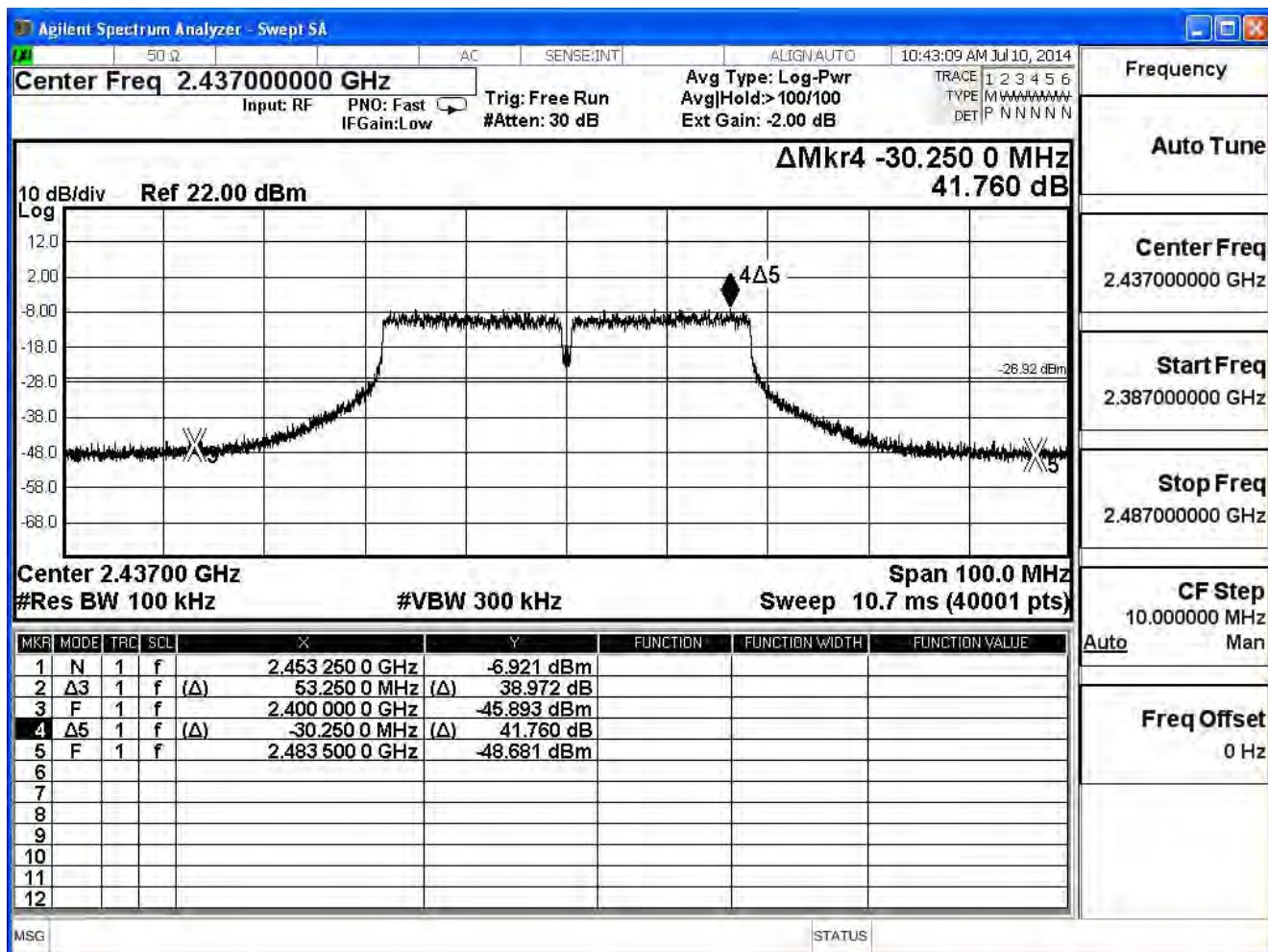
IEEE 802.11n (40MHz), ANT 0, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	26.664	≥ 20	Pass
6	2437	38.972	≥ 20	Pass
9	2452	38.413	≥ 20	Pass

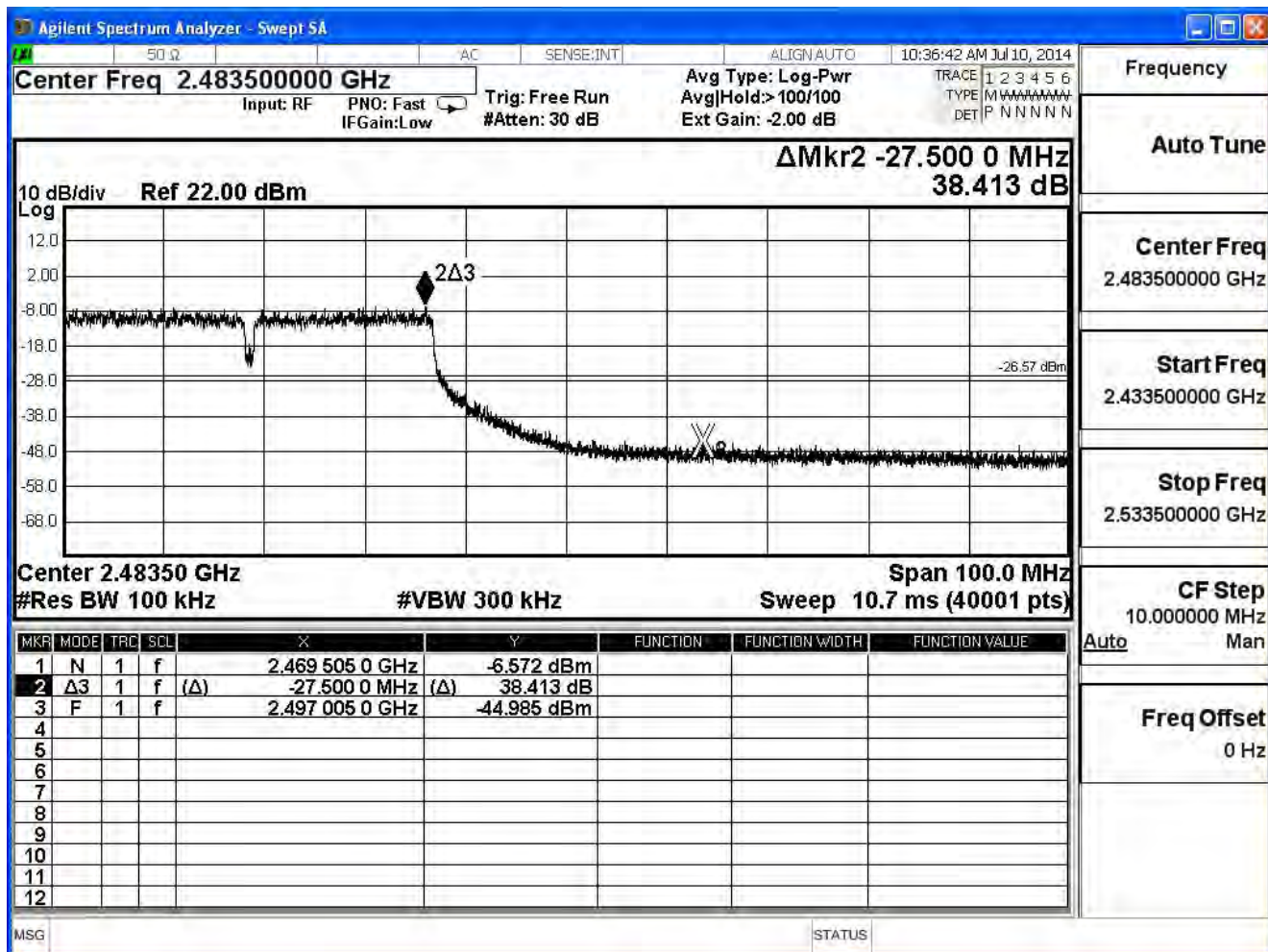
Channel 3 (2422MHz)



Channel 6 (2437MHz)



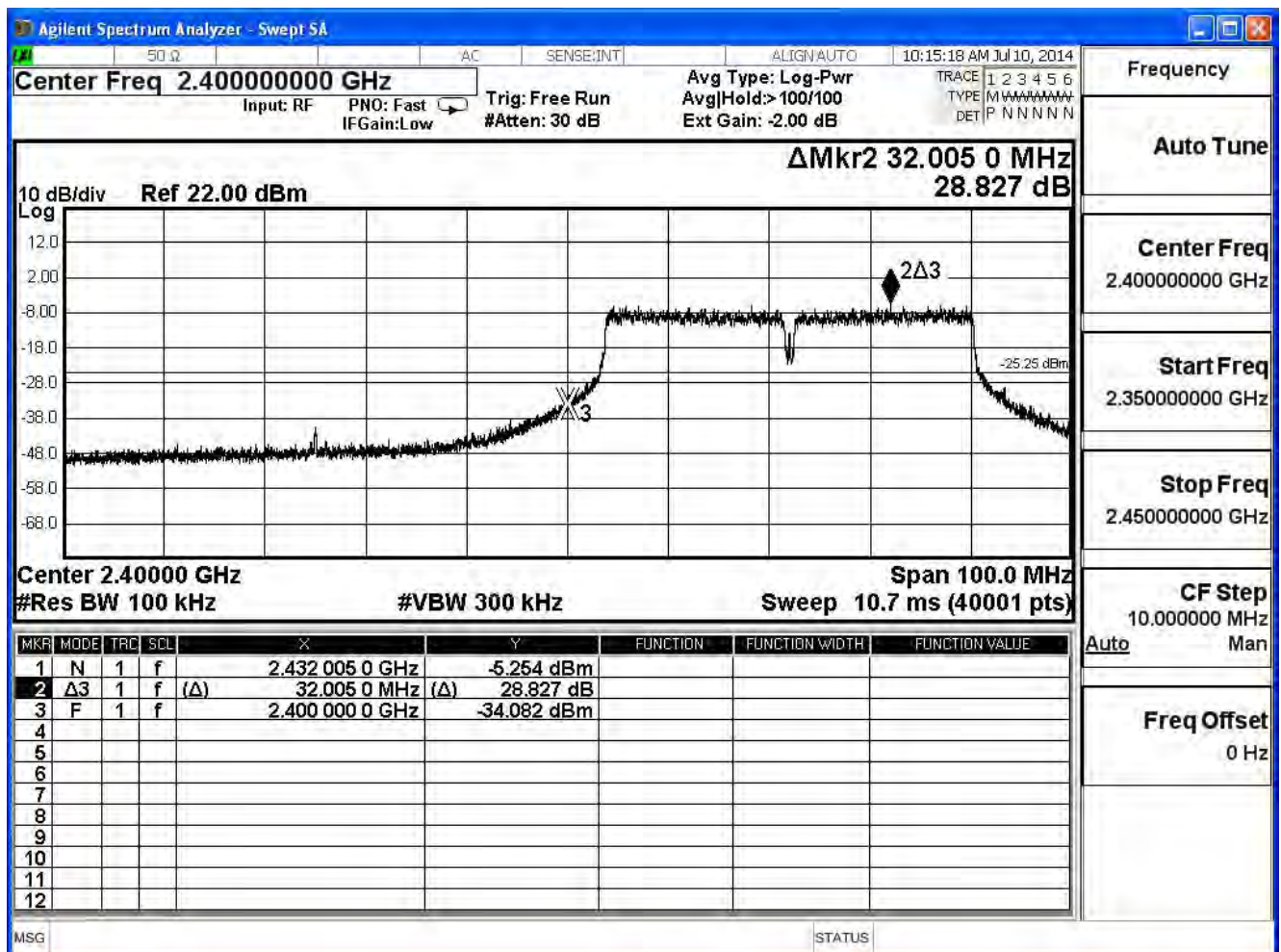
Channel 9 (2452MHz)



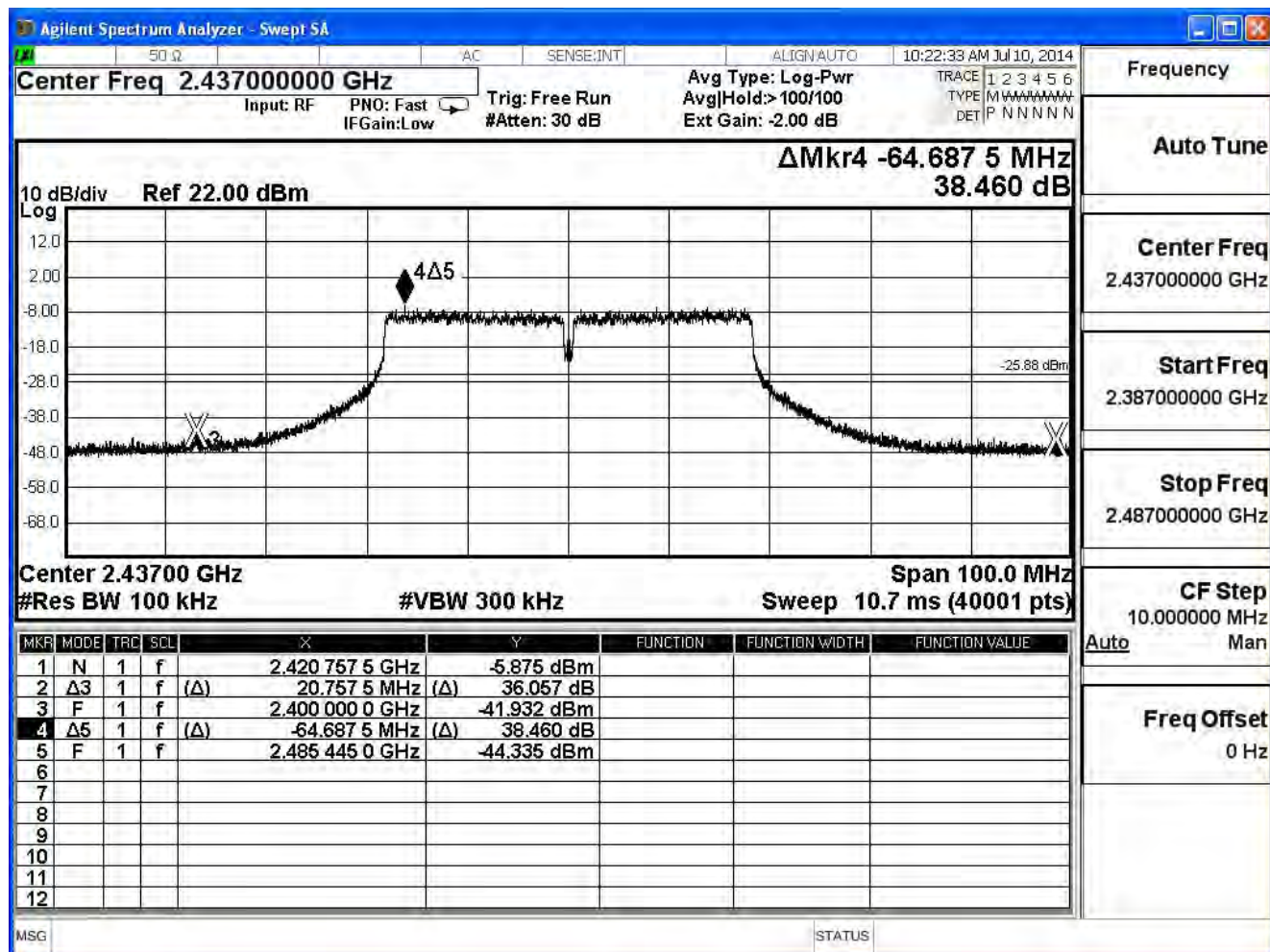
Product	Wireless Ceiling Access Point		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

IEEE 802.11n (40MHz), ANT 1, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	28.827	≥ 20	Pass
6	2437	36.057	≥ 20	Pass
9	2452	36.308	≥ 20	Pass

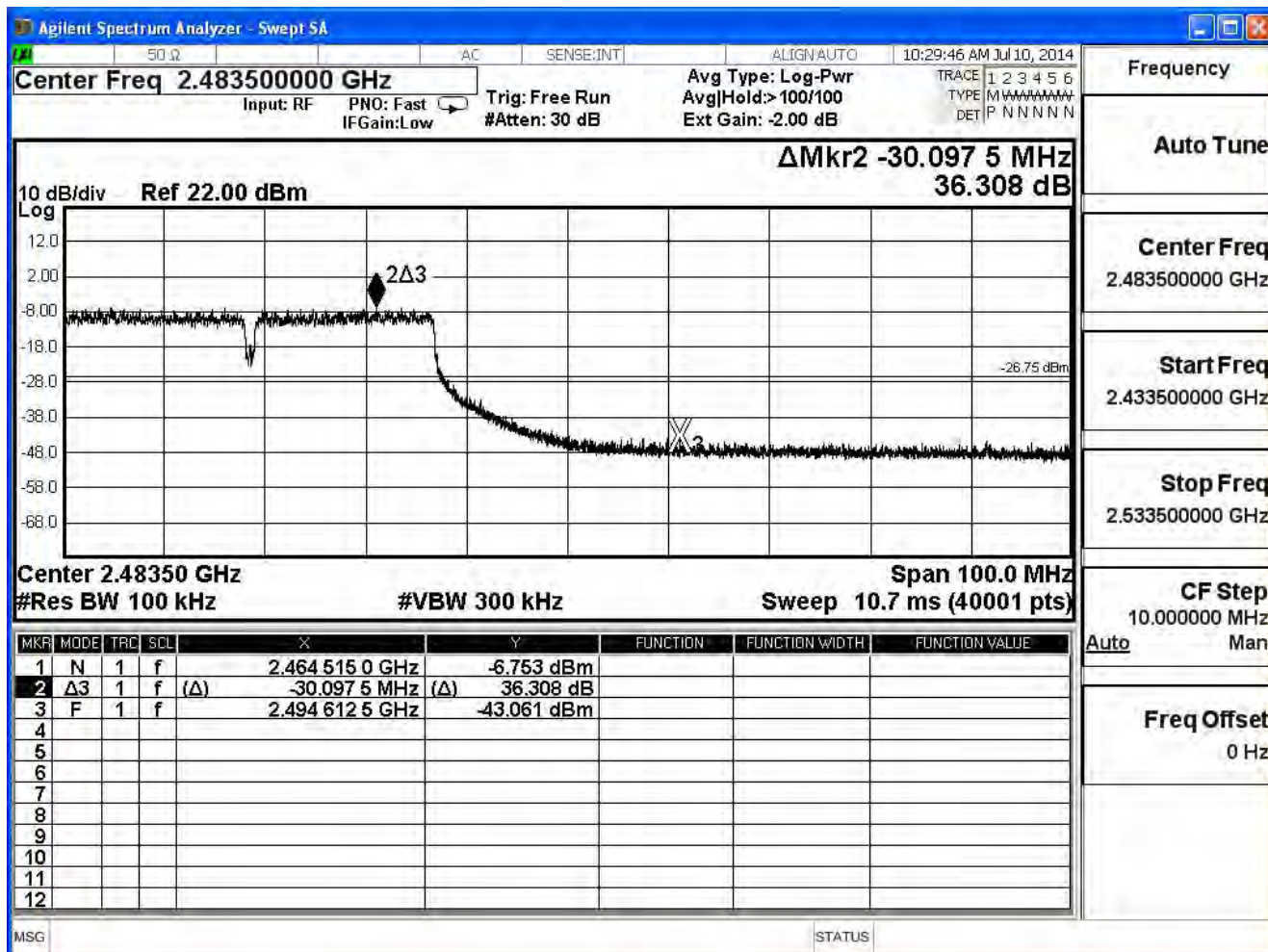
Channel 3 (2422MHz)



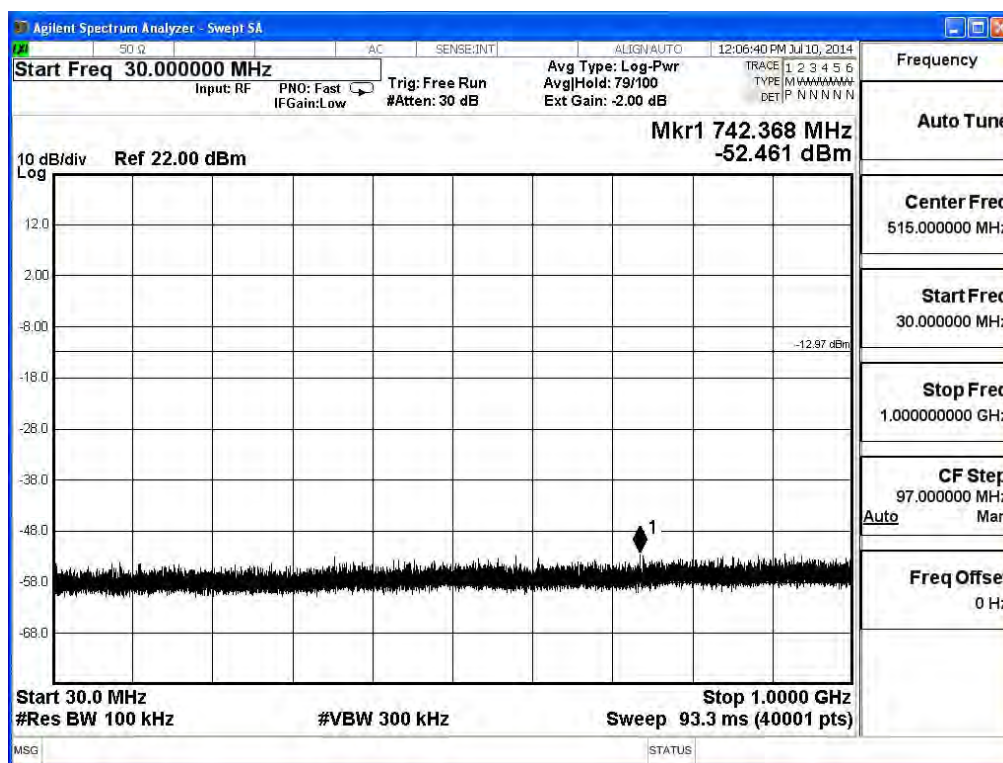
Channel 6 (2437MHz)



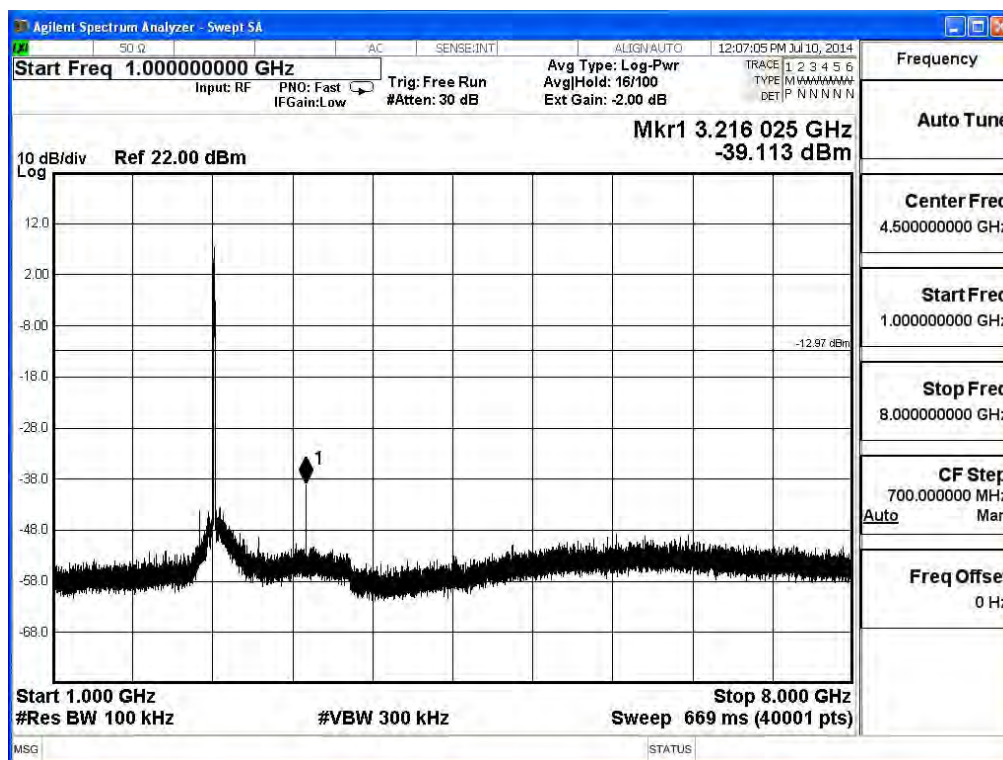
Channel 9 (2452MHz)



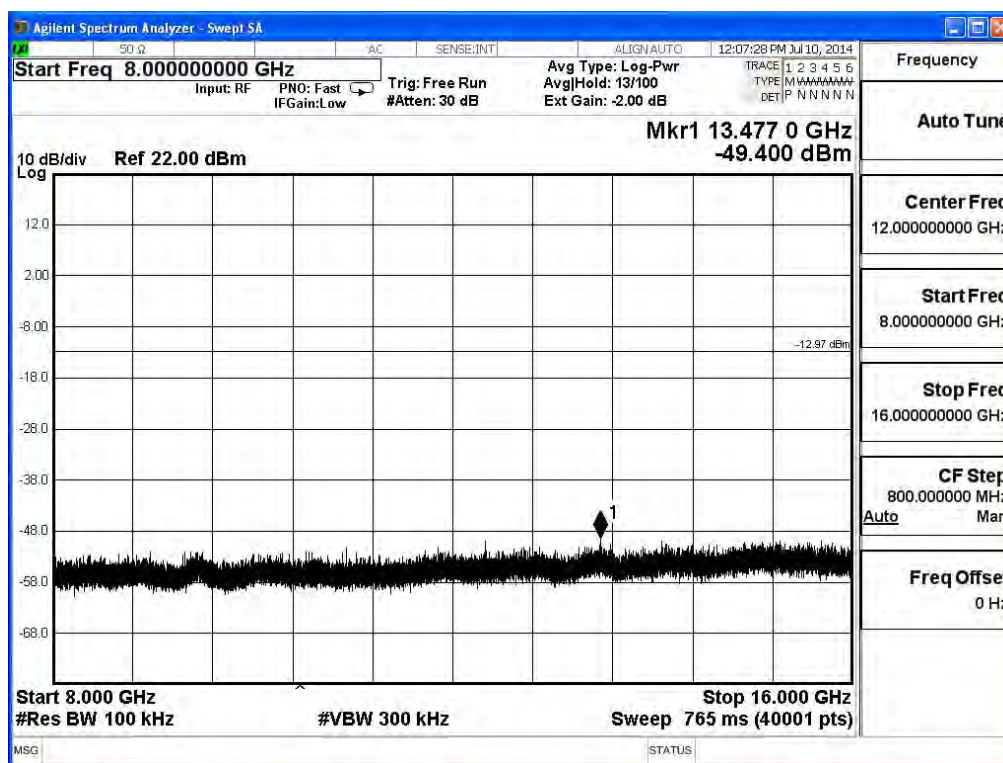
2412MHz (30MHz-1GHz)-802.11b



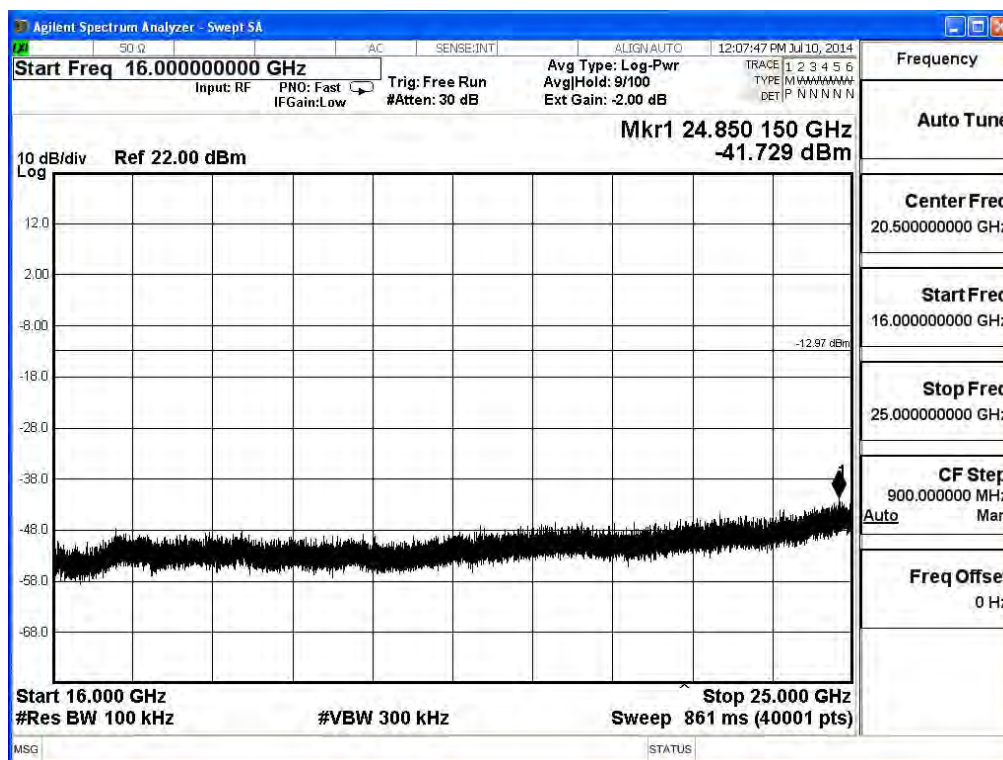
2412MHz (1GHz-8GHz) -802.11b



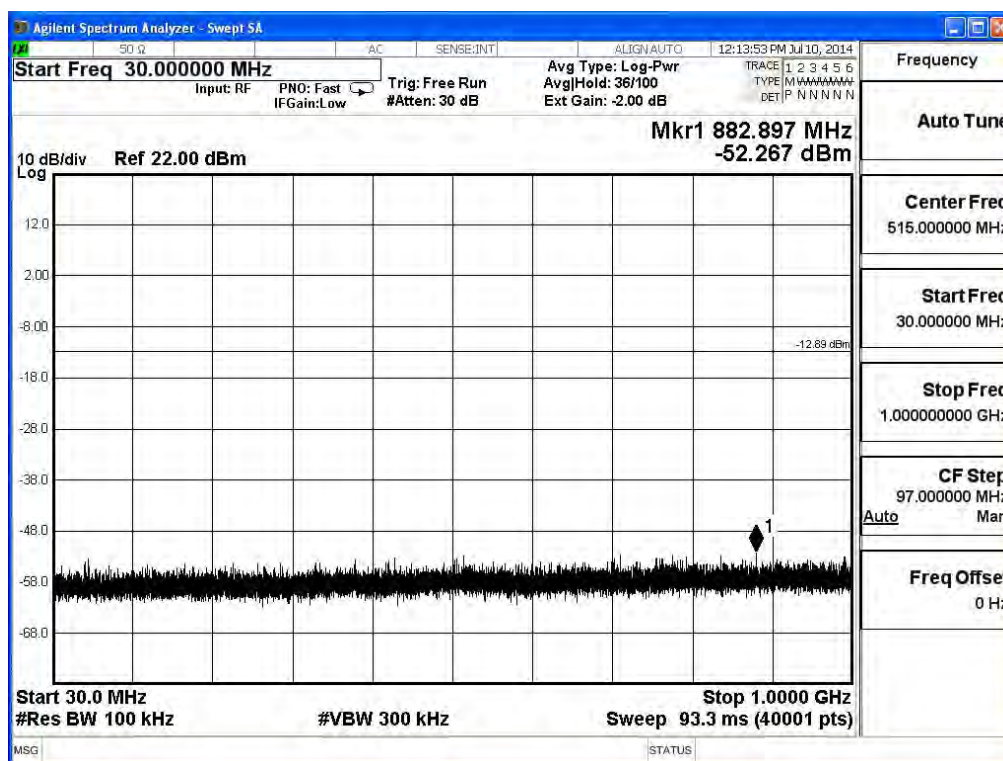
2412MHz (8GHz-16GHz)-802.11b



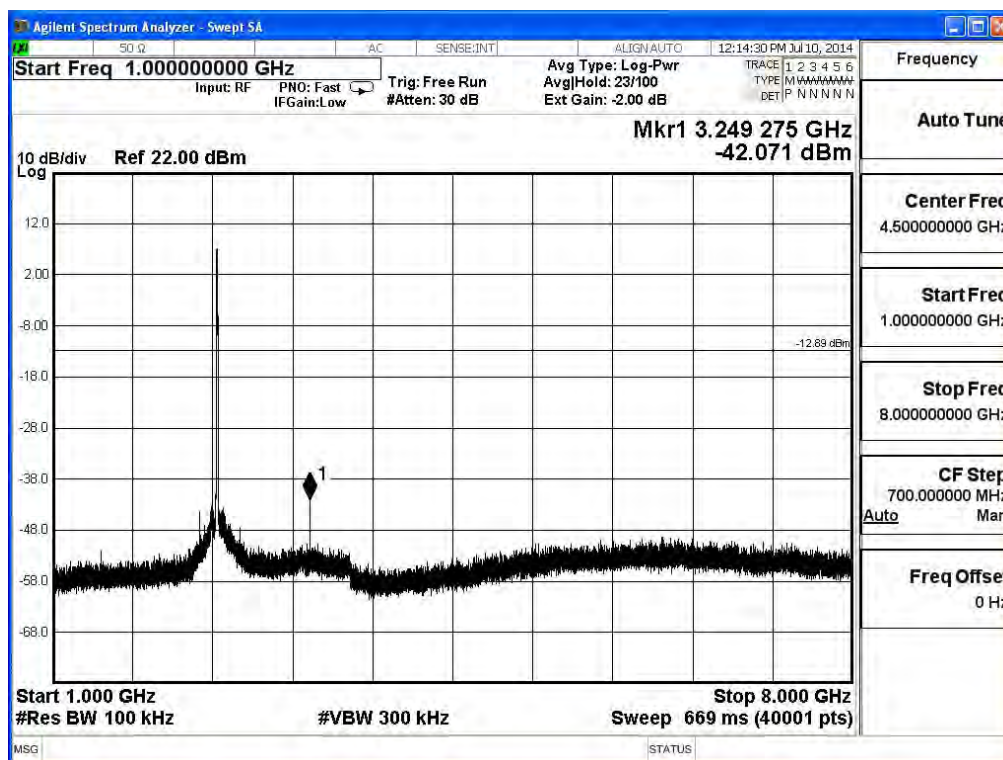
2412MHz (16GHz-25GHz) -802.11b



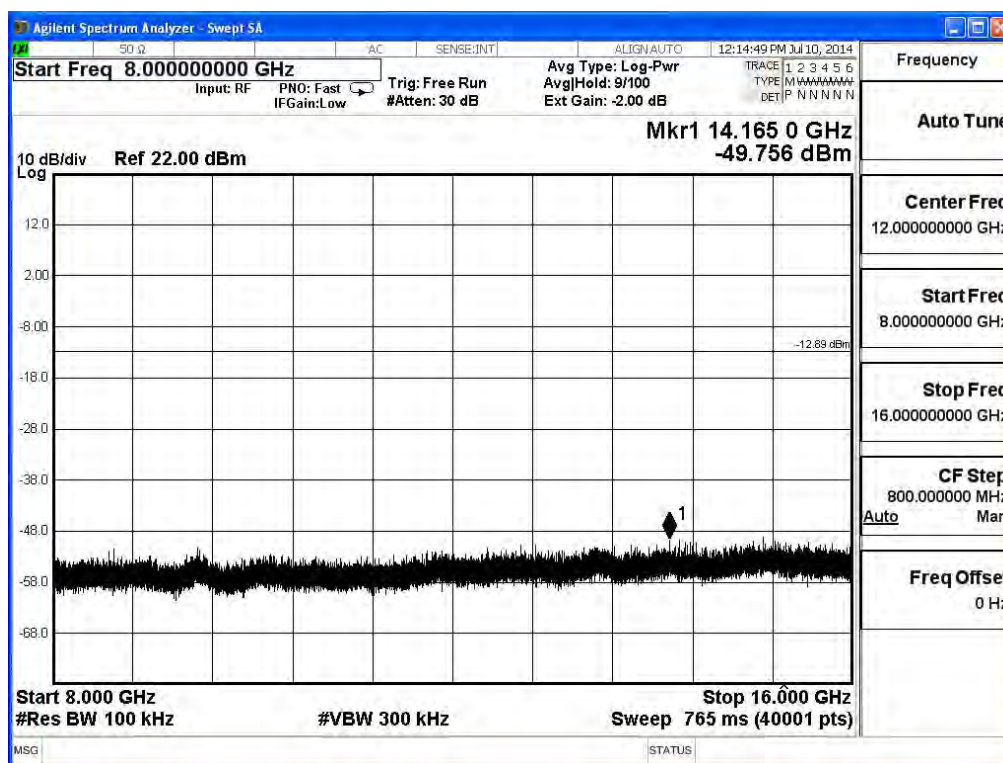
2437MHz (30MHz-1GHz) -802.11b



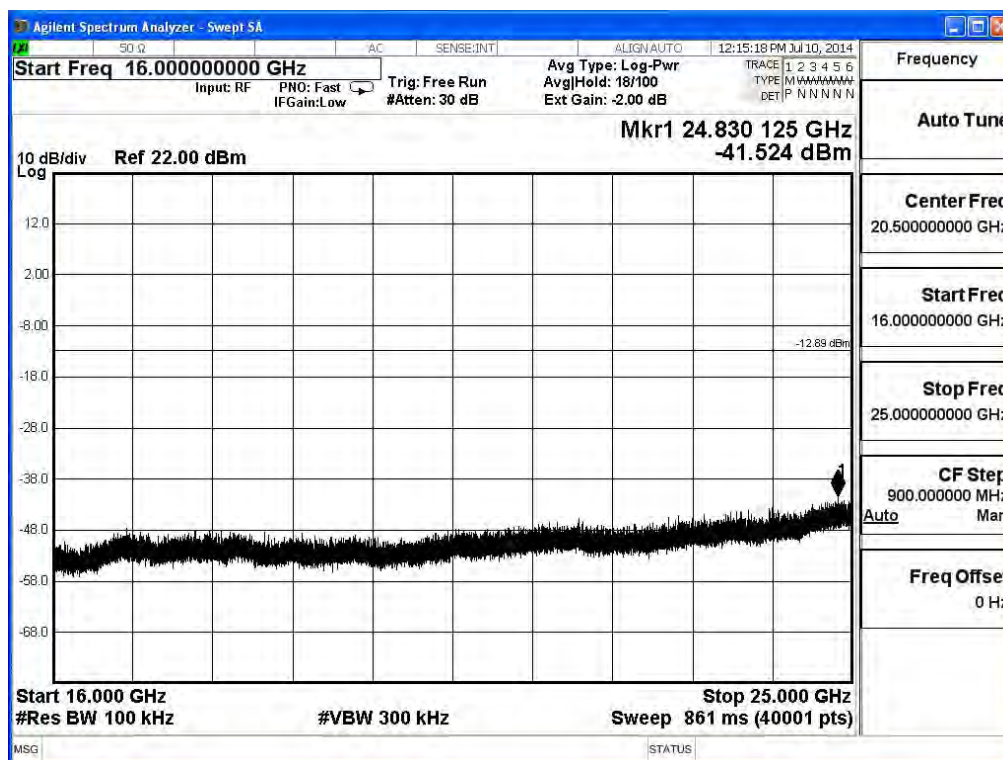
2437MHz (1GHz-8GHz)-802.11b



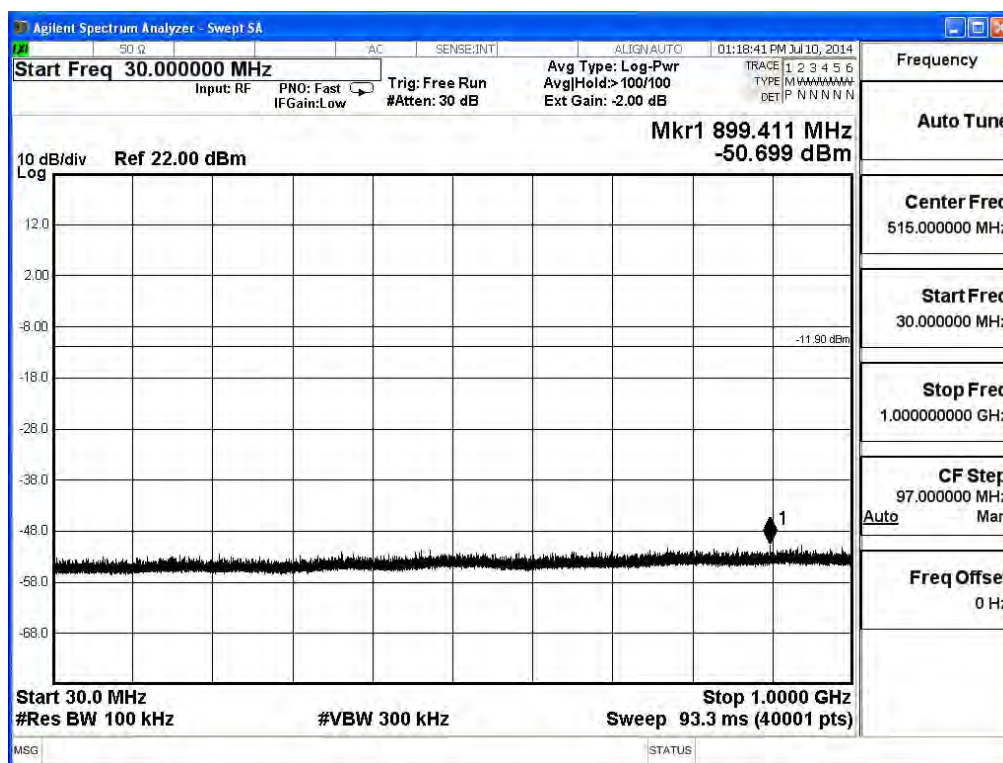
2437MHz (8GHz-16GHz) -802.11b



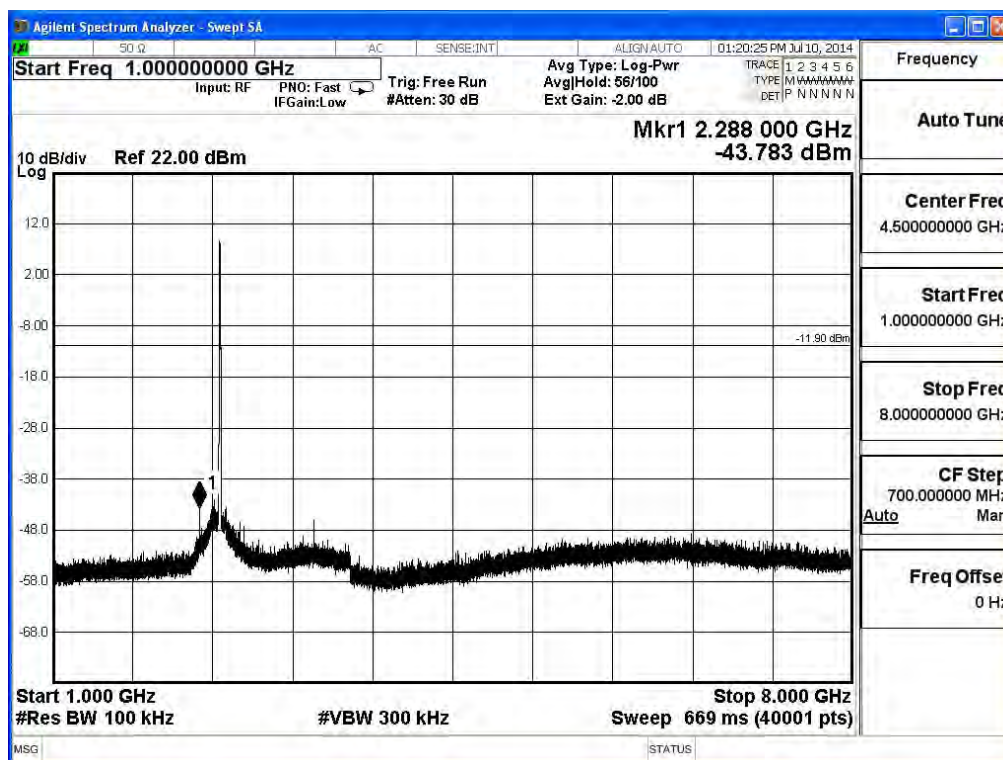
2437MHz (16GHz-25GHz)-802.11b



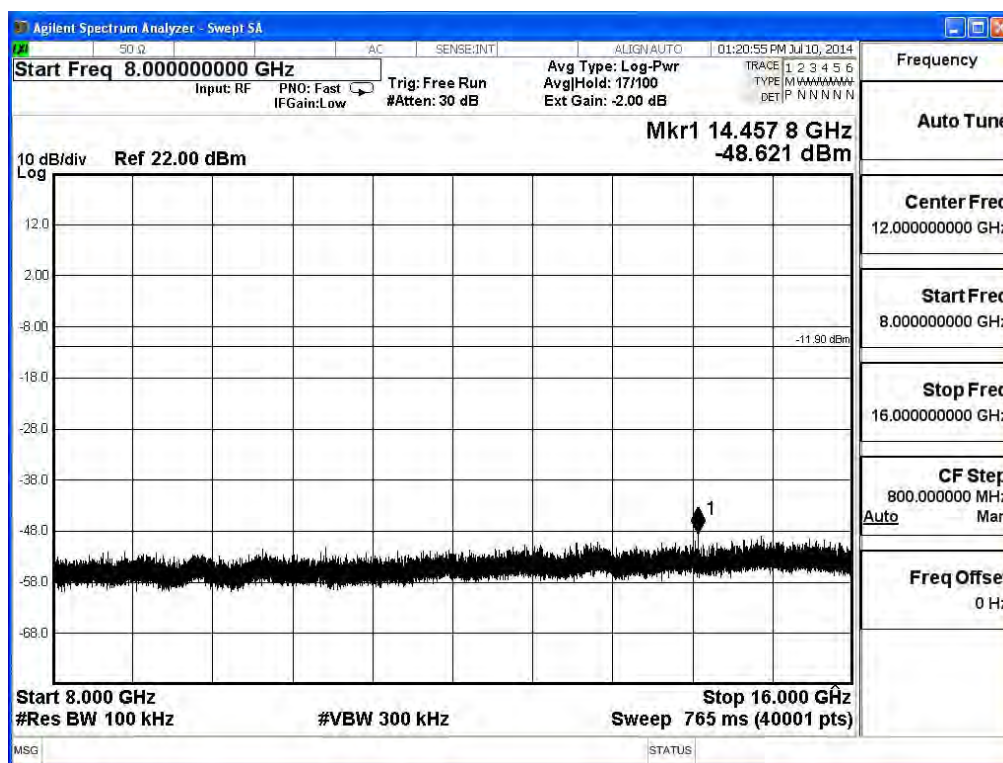
2462MHz (30MHz-1GHz)-802.11b



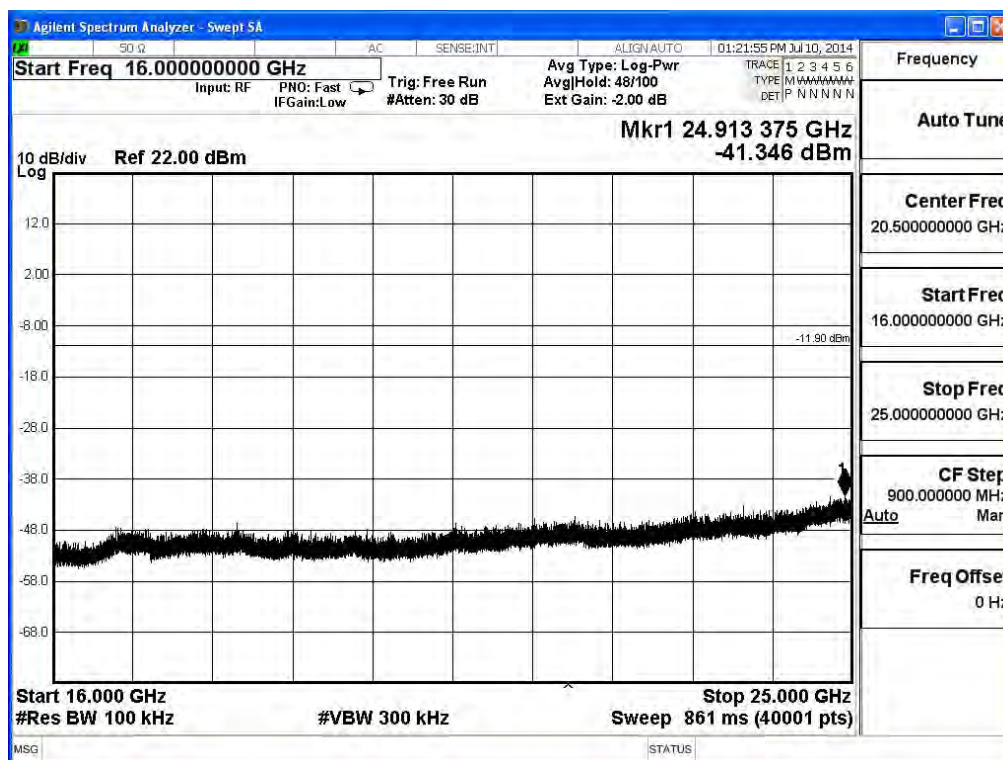
2462MHz (1GHz-8GHz) -802.11b



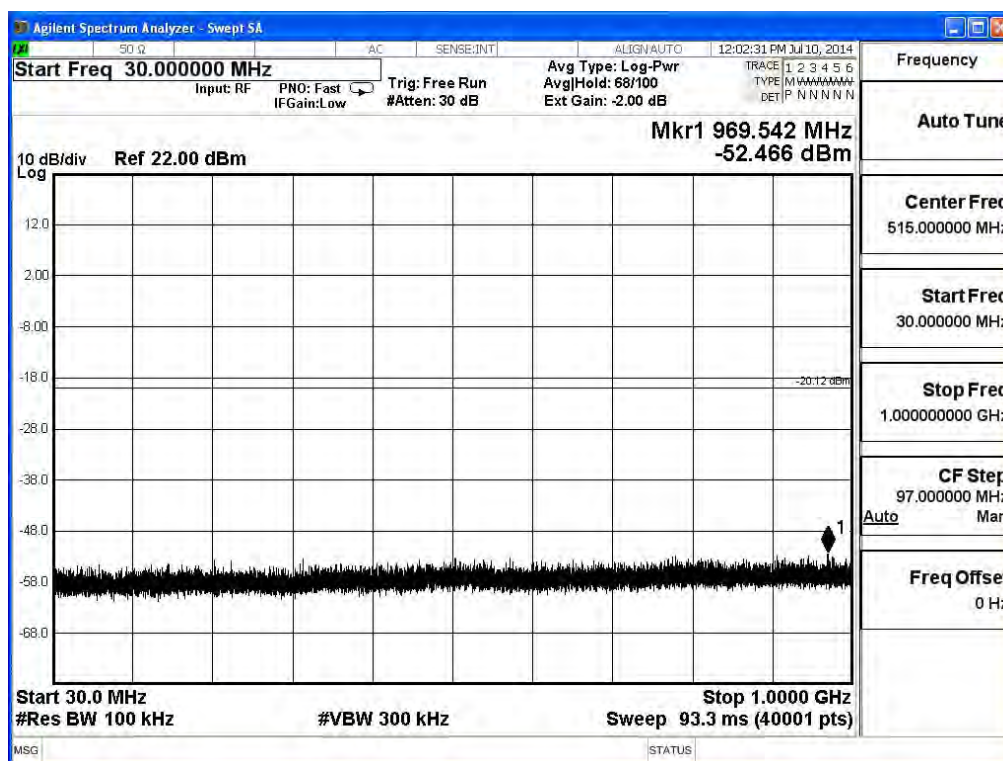
2462MHz (8GHz-16GHz)-802.11b



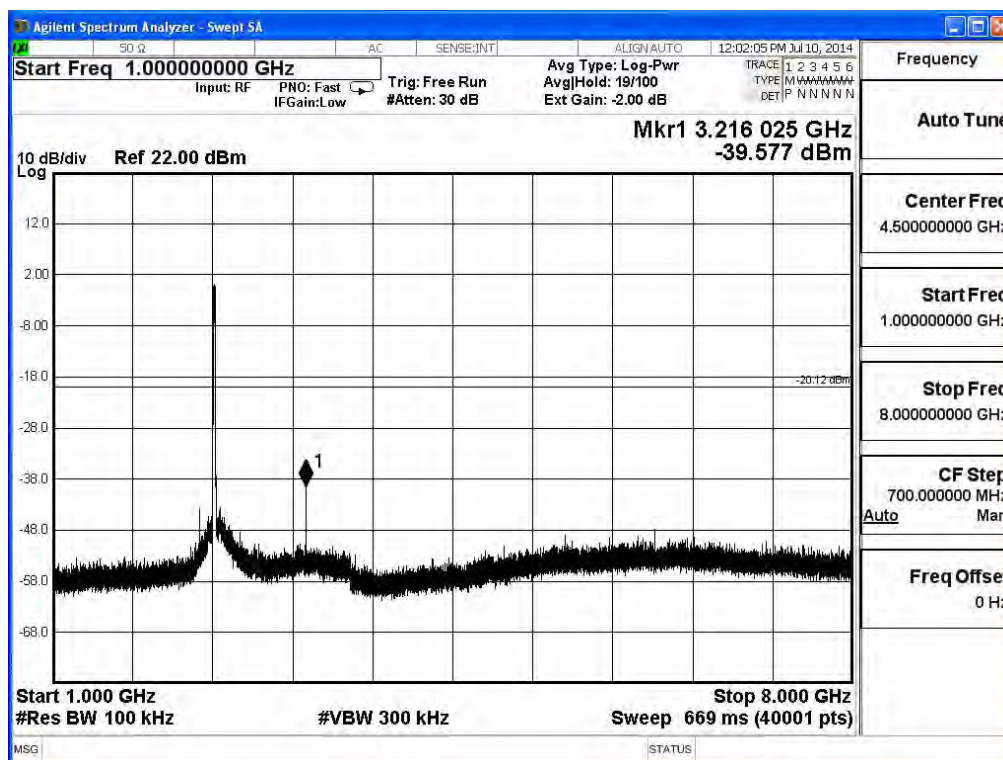
2462MHz (16GHz-25GHz) -802.11b



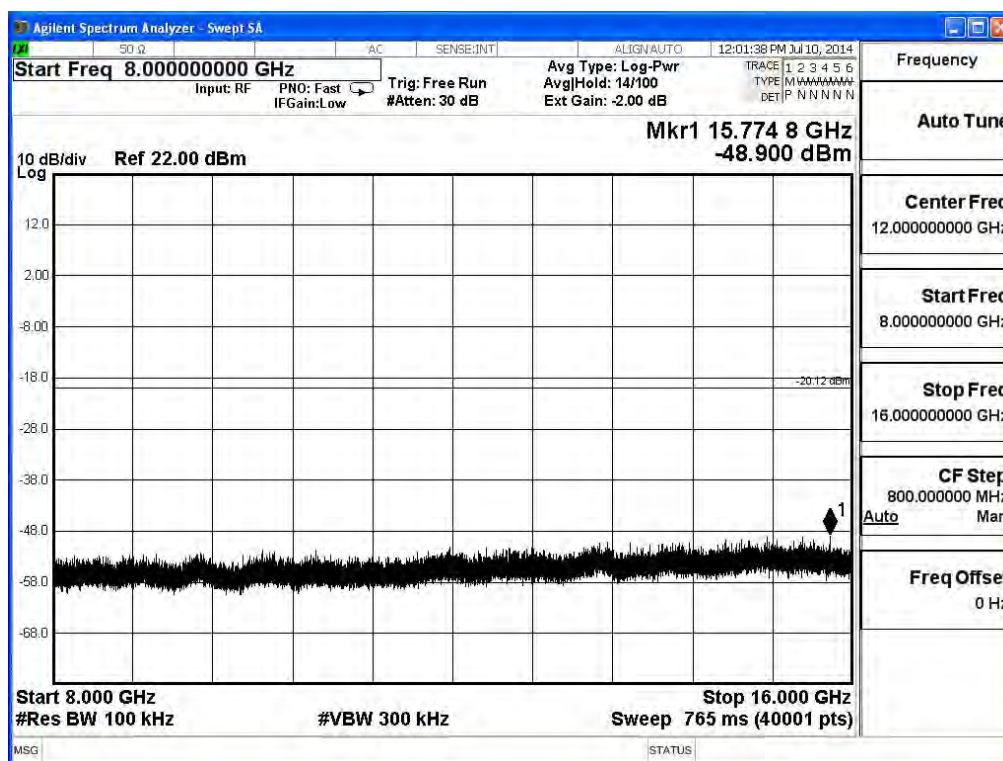
2412MHz (30MHz-1GHz) -802.11g



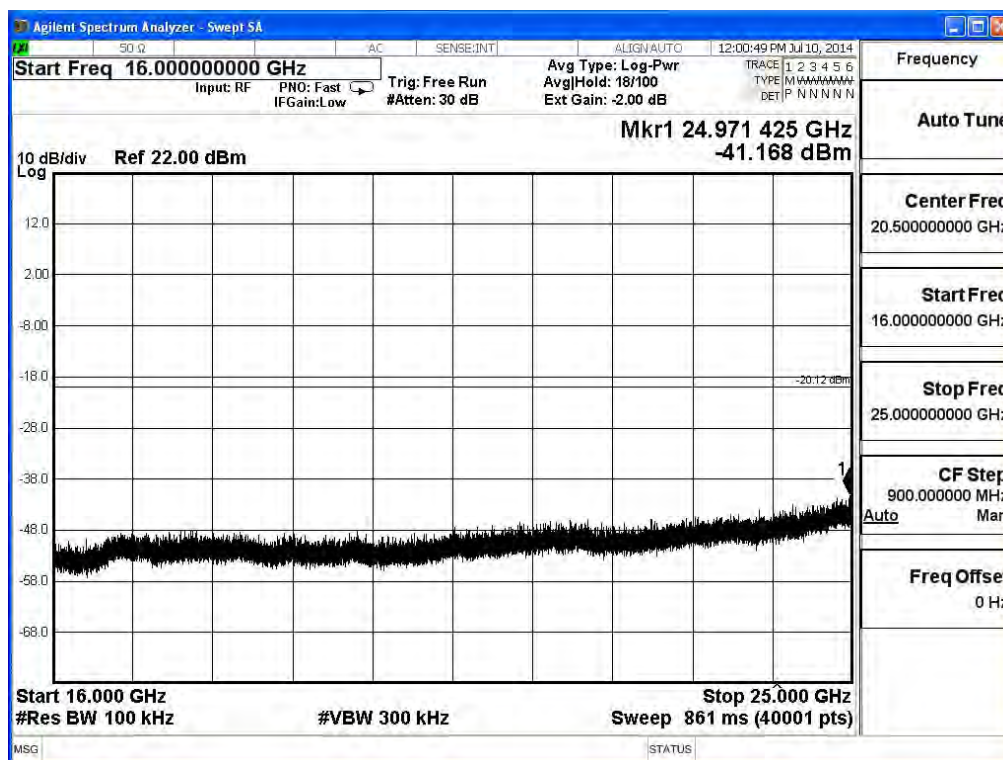
2412MHz (1GHz-8GHz)-802.11g



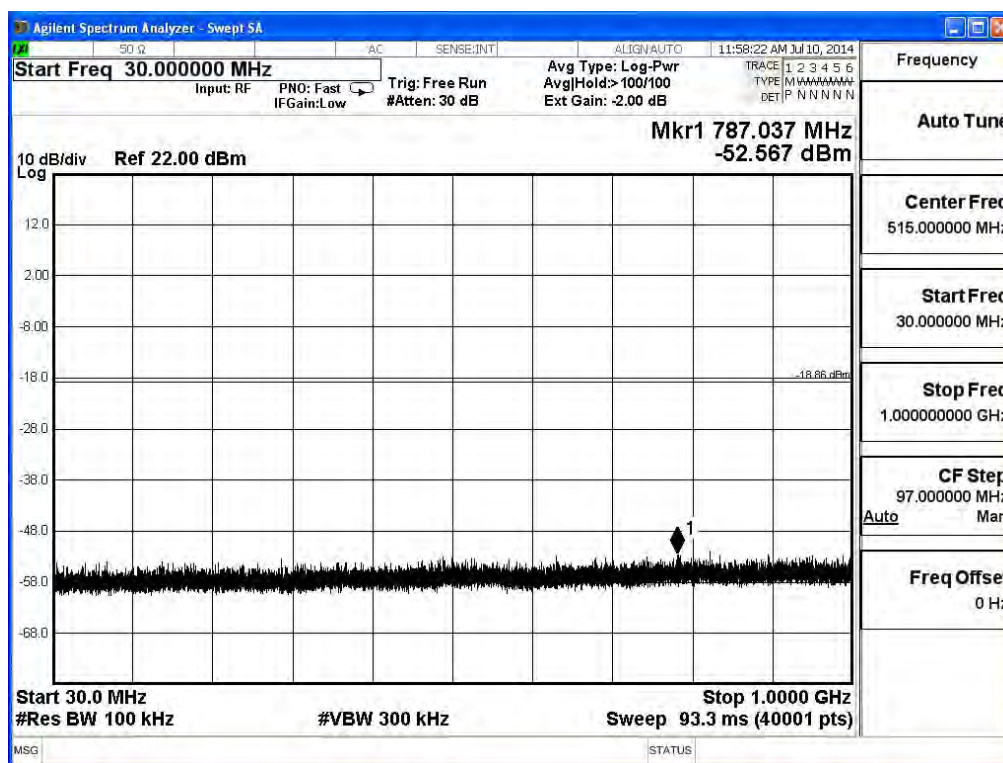
2412MHz (8GHz-16GHz) -802.11g



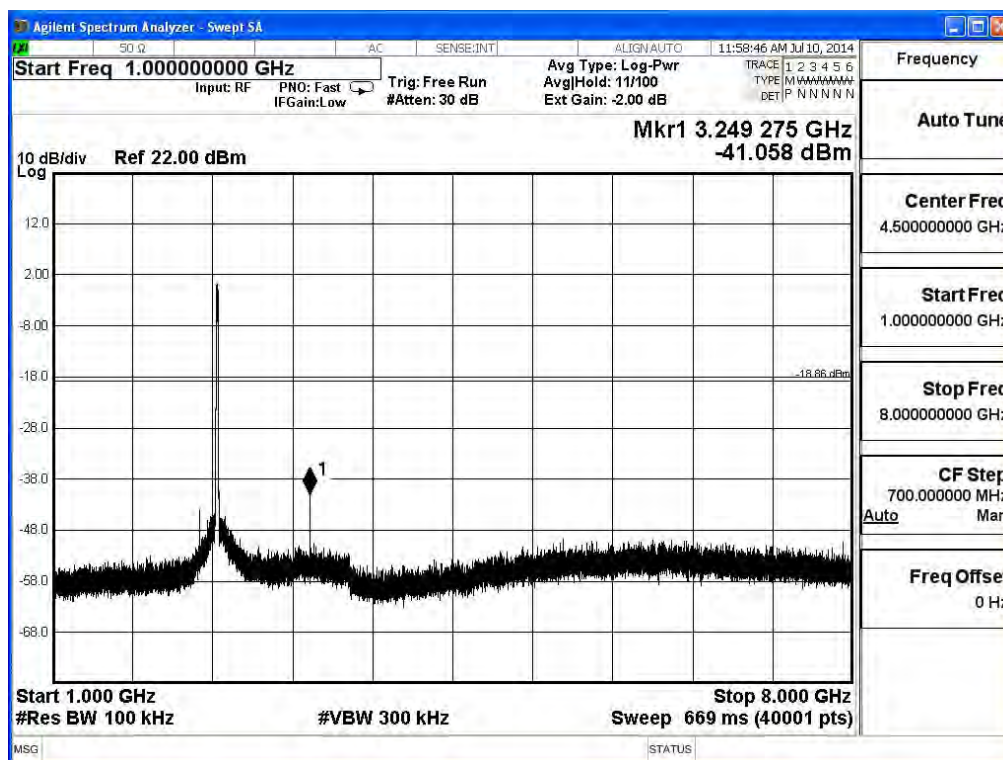
2412MHz (16GHz-25GHz)-802.11g



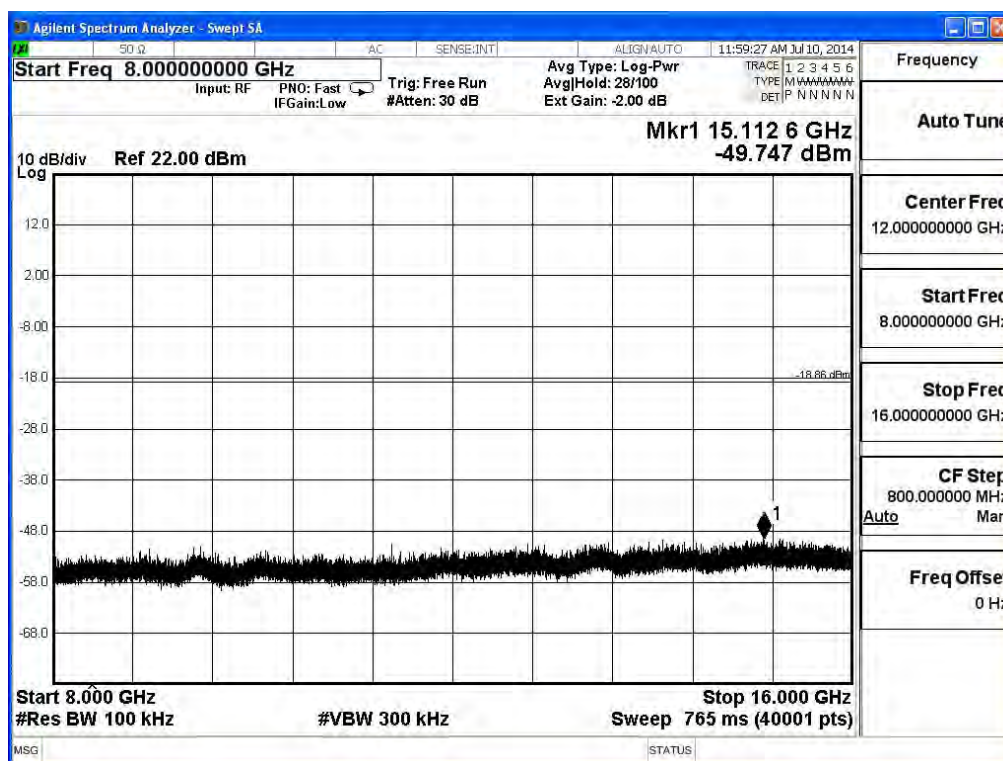
2437MHz (30MHz-1GHz)-802.11g



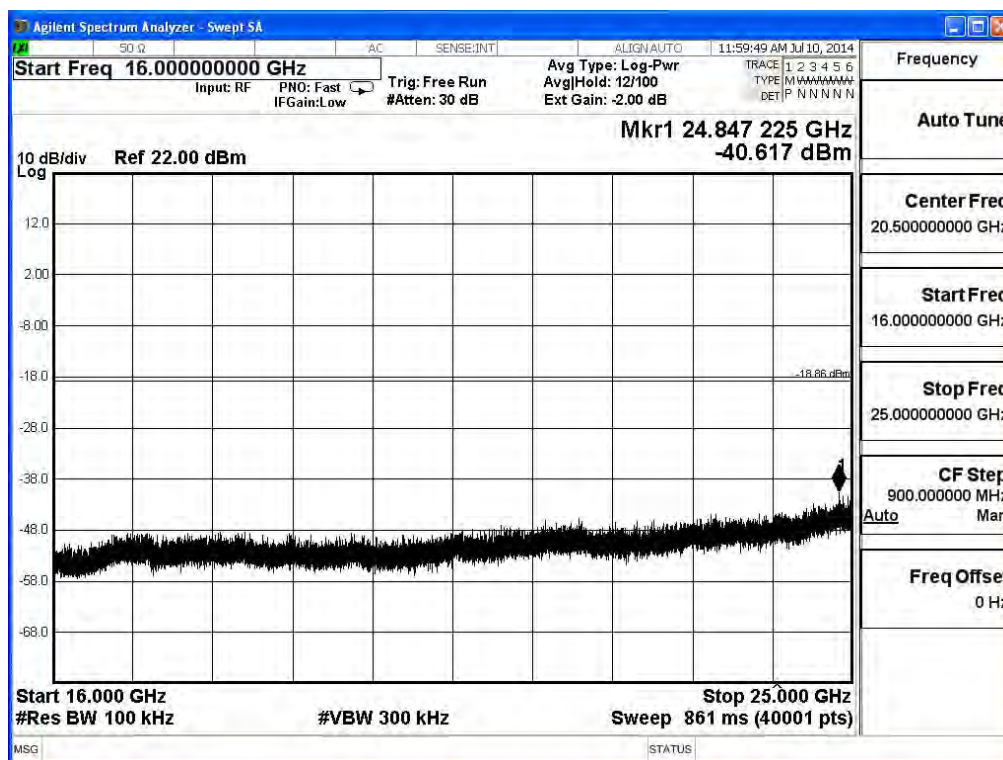
2437MHz (1GHz-8GHz) -802.11g



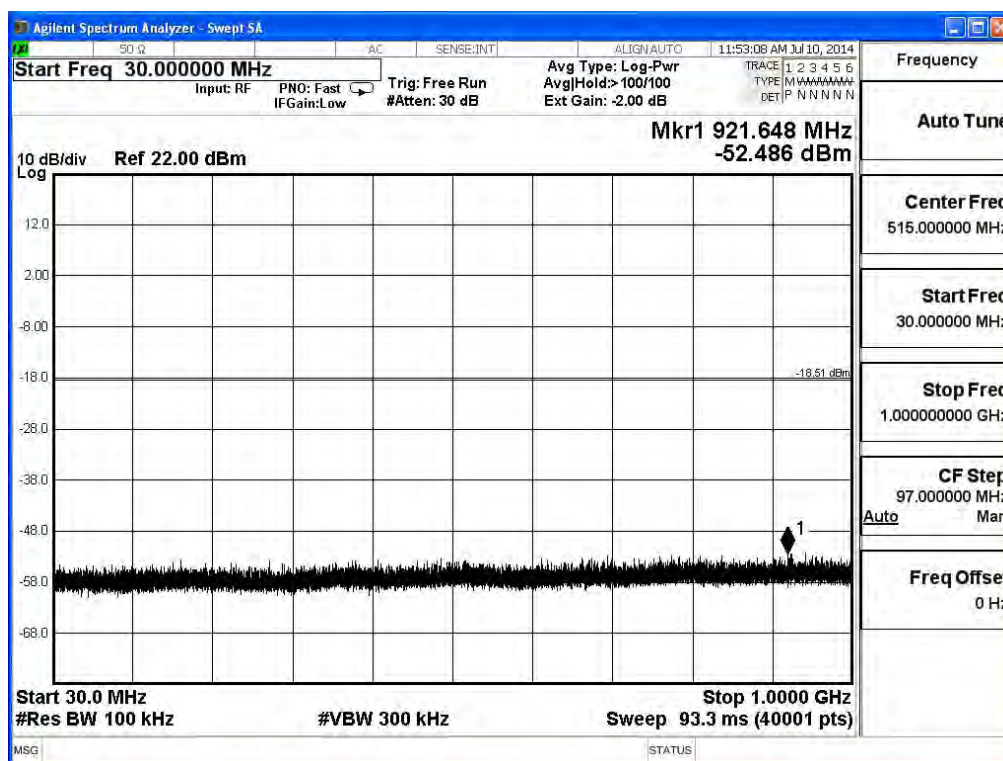
2437MHz (8GHz-16GHz)-802.11g



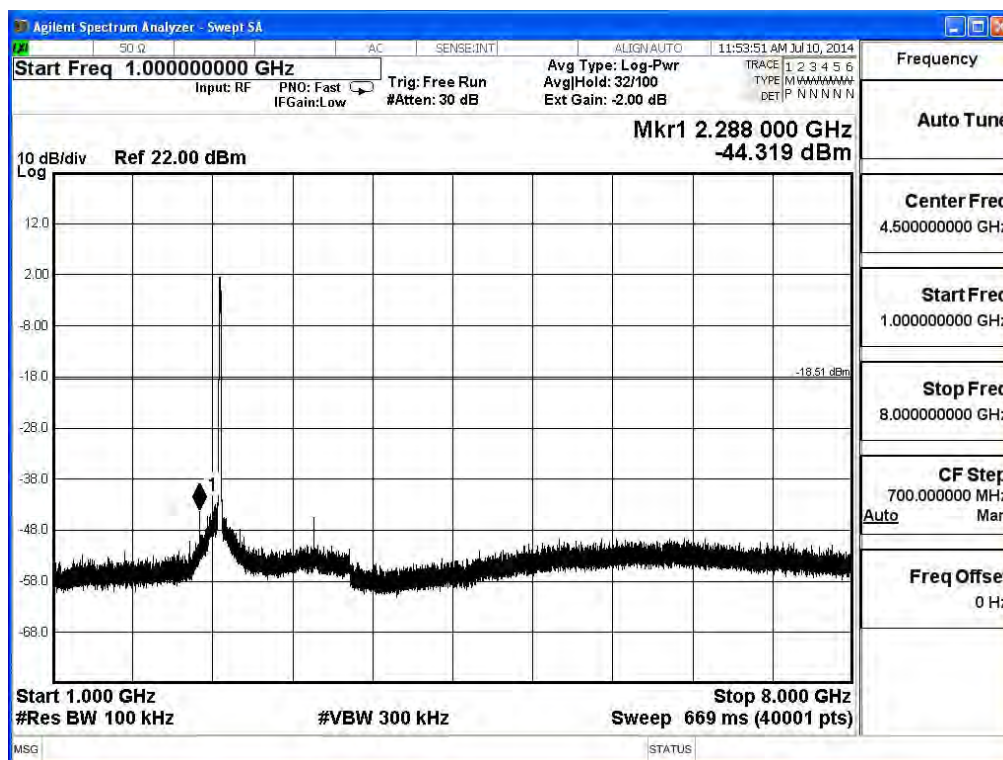
2437MHz (16GHz-25GHz) -802.11g



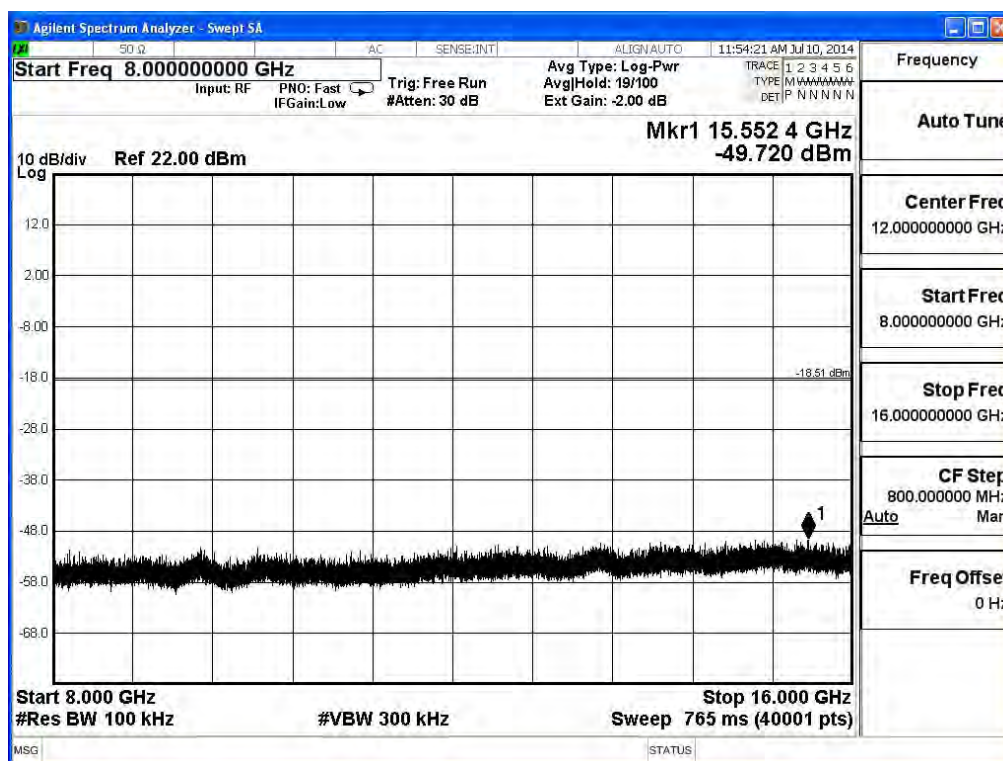
2462MHz (30MHz-1GHz) -802.11g



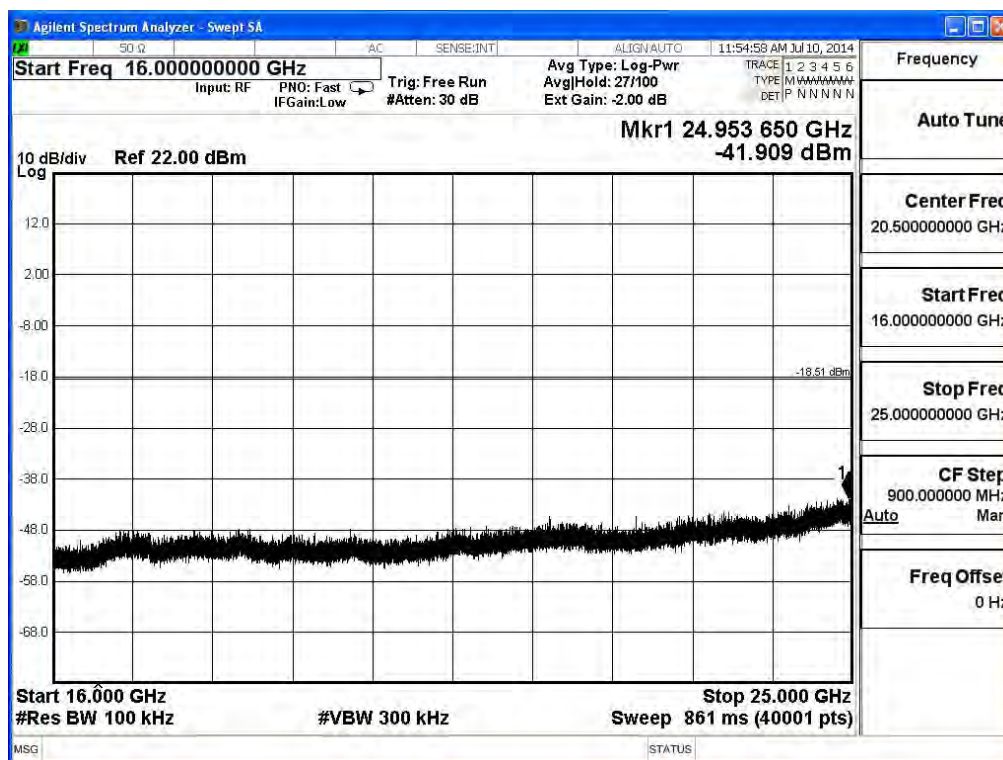
2462MHz (1GHz-8GHz)-802.11g



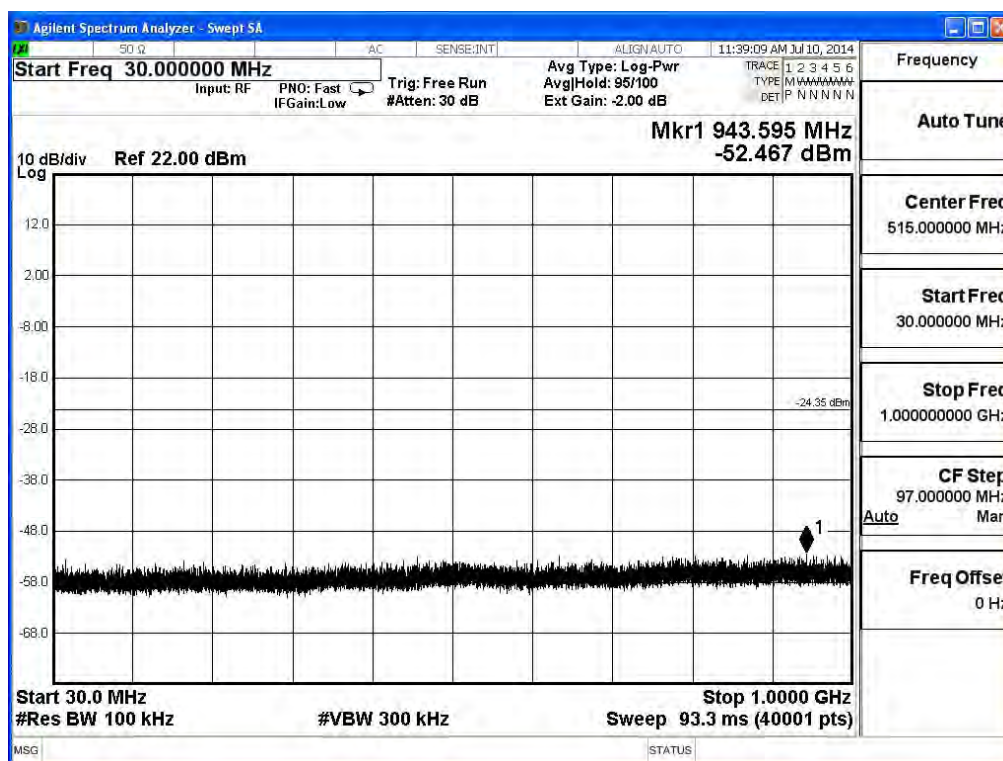
2462MHz (8GHz-16GHz) -802.11g



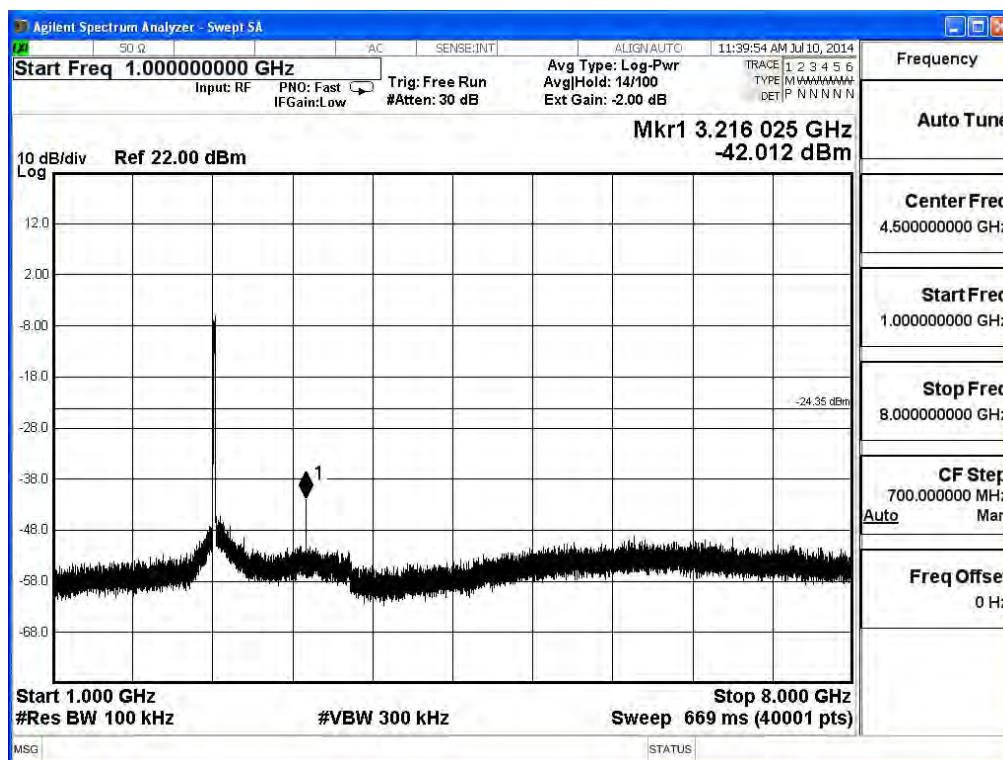
2462MHz (16GHz-25GHz)-802.11g



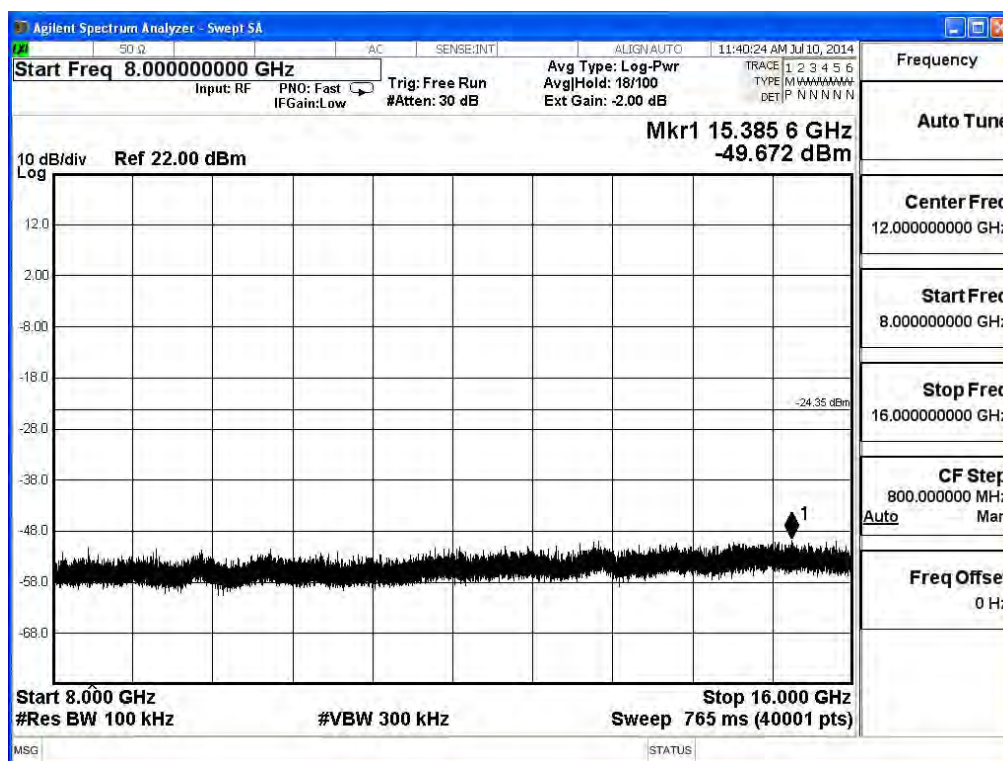
2412MHz (30MHz-1GHz)-802.11n(20MHz) (Ant 0)



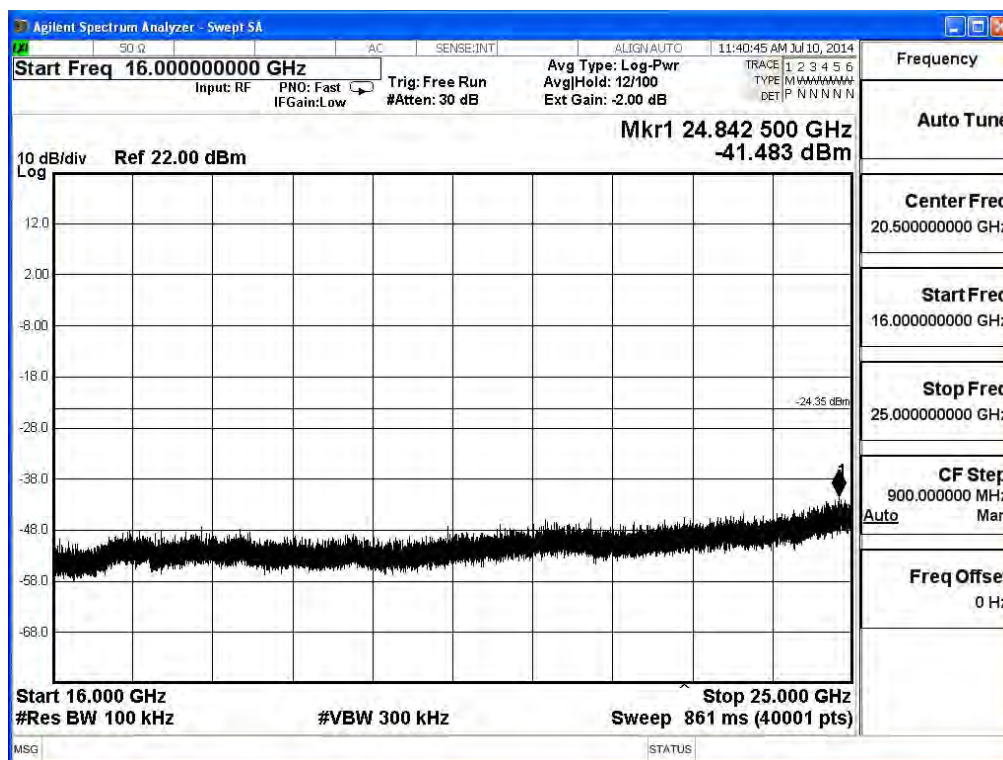
2412MHz (1GHz-8GHz) -802.11n(20MHz) (Ant 0)



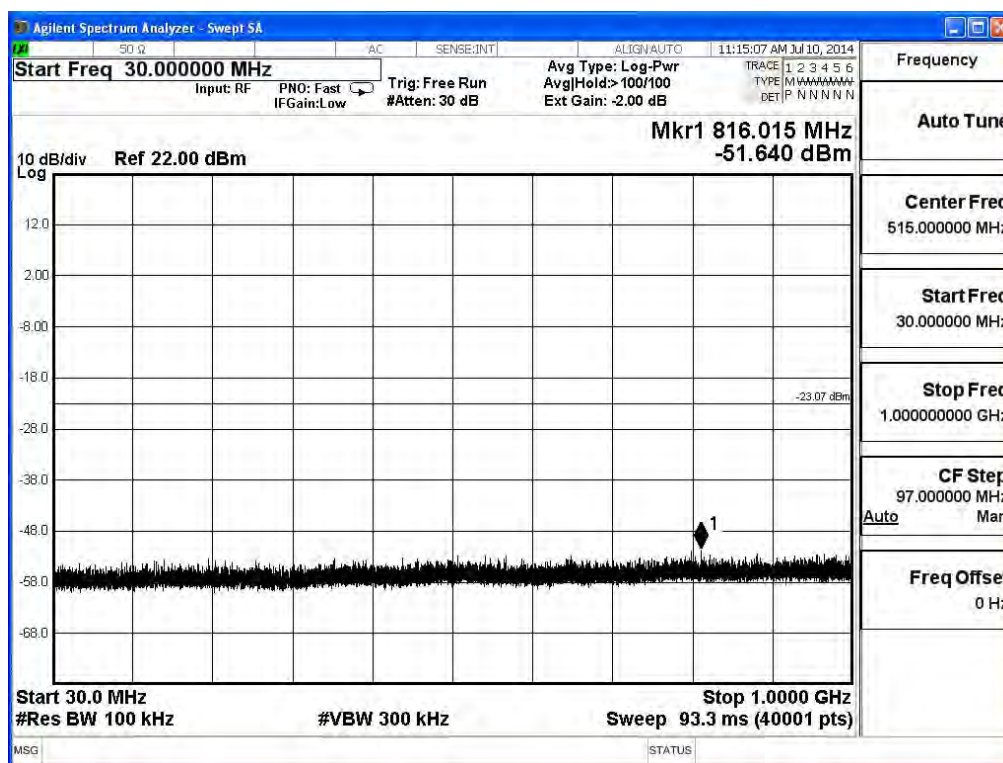
2412MHz (8GHz-16GHz)-802.11n(20MHz) (Ant 0)



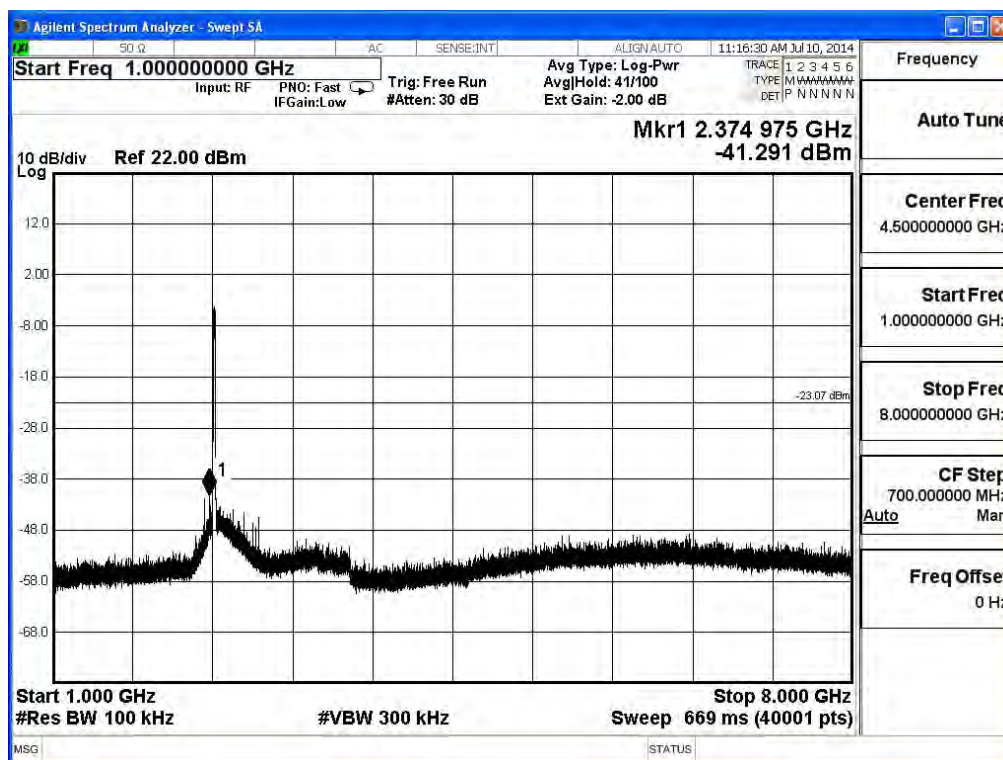
2412MHz (16GHz-25GHz) -802.11n(20MHz) (Ant 0)



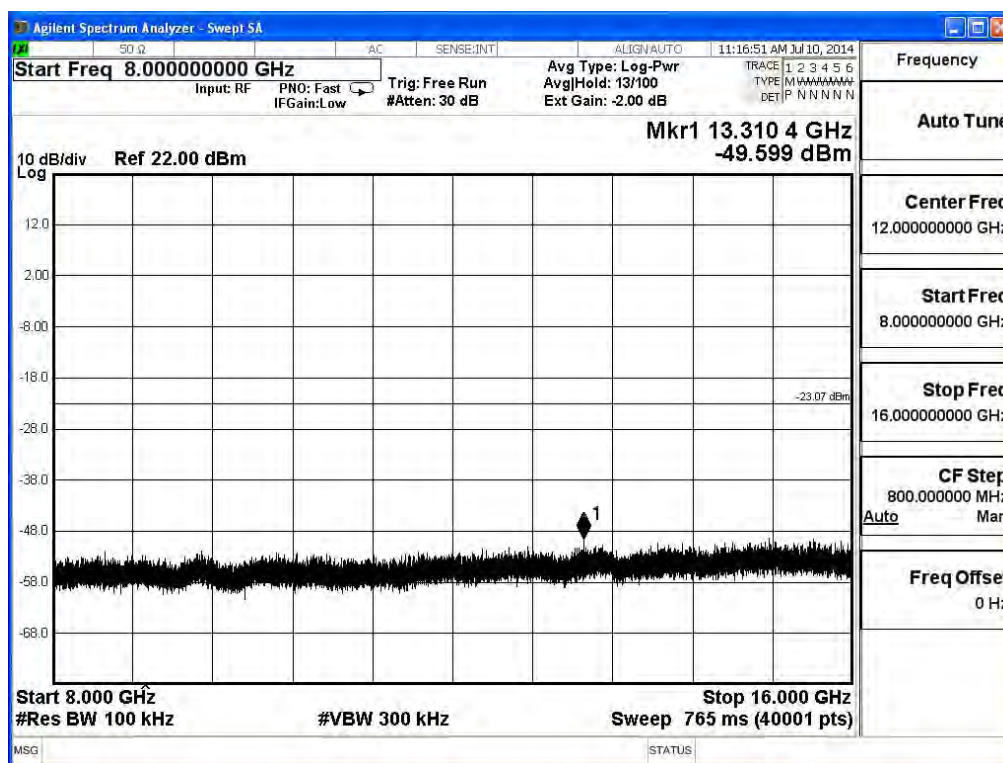
2412MHz (30MHz-1GHz)-802.11n(20MHz) (Ant 1)



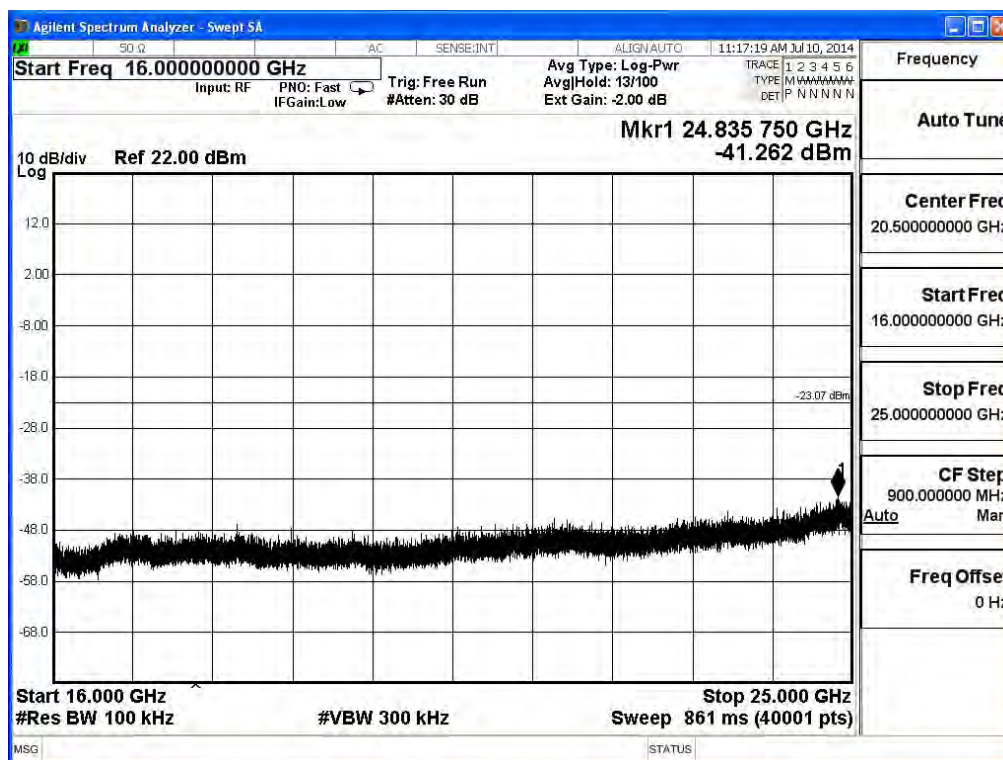
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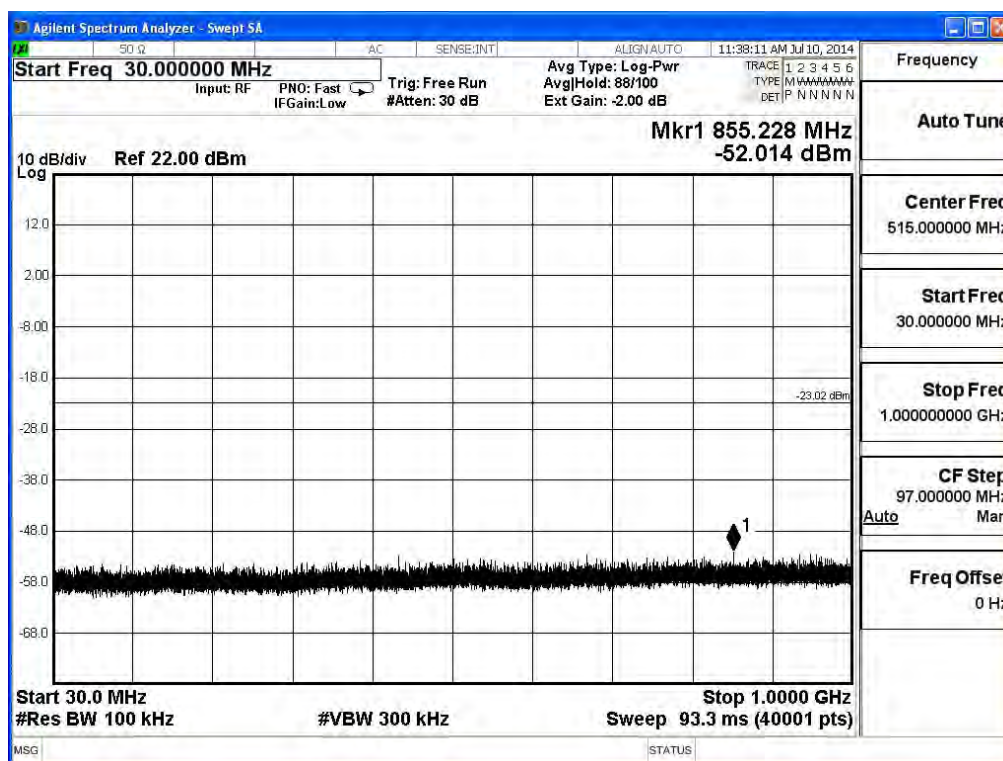
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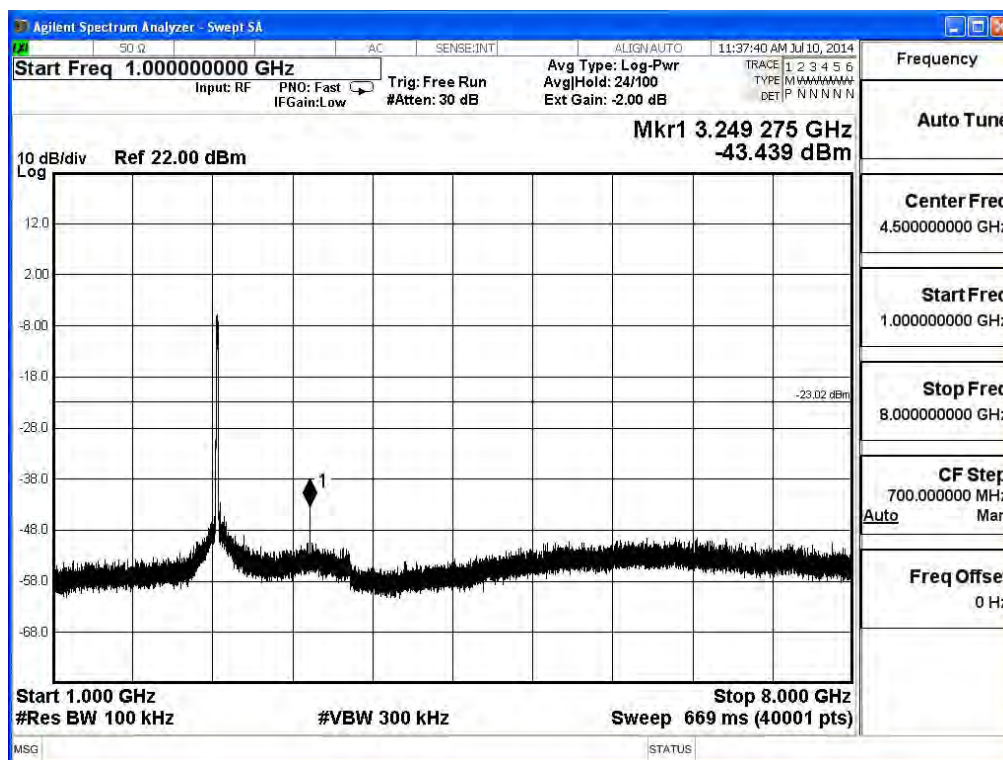
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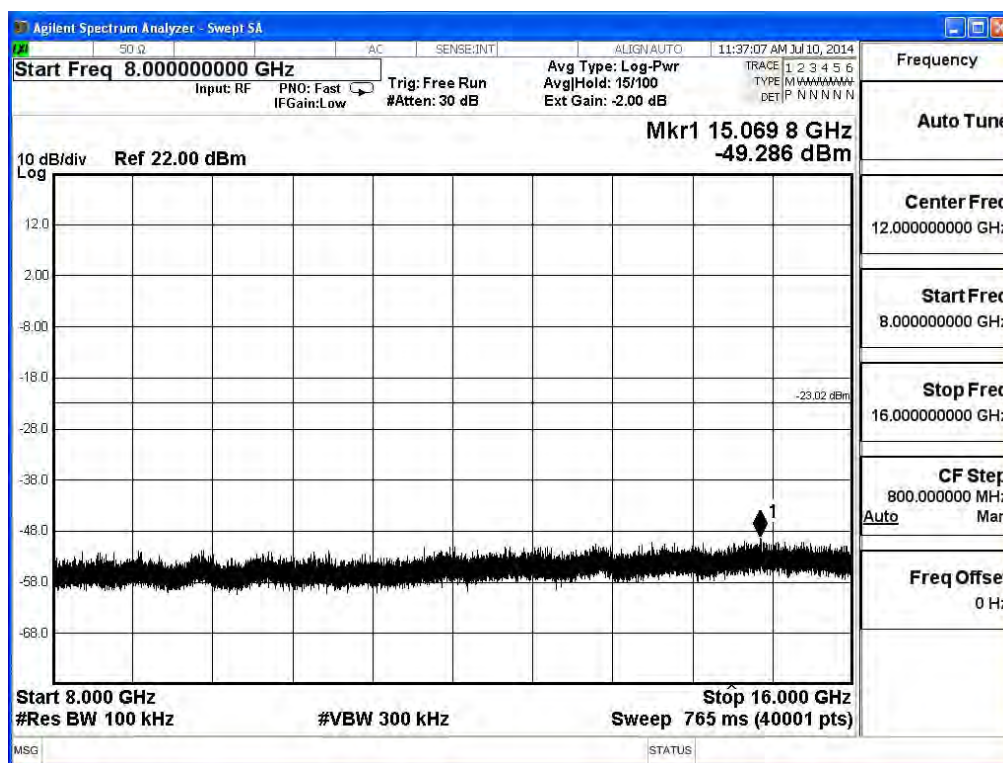
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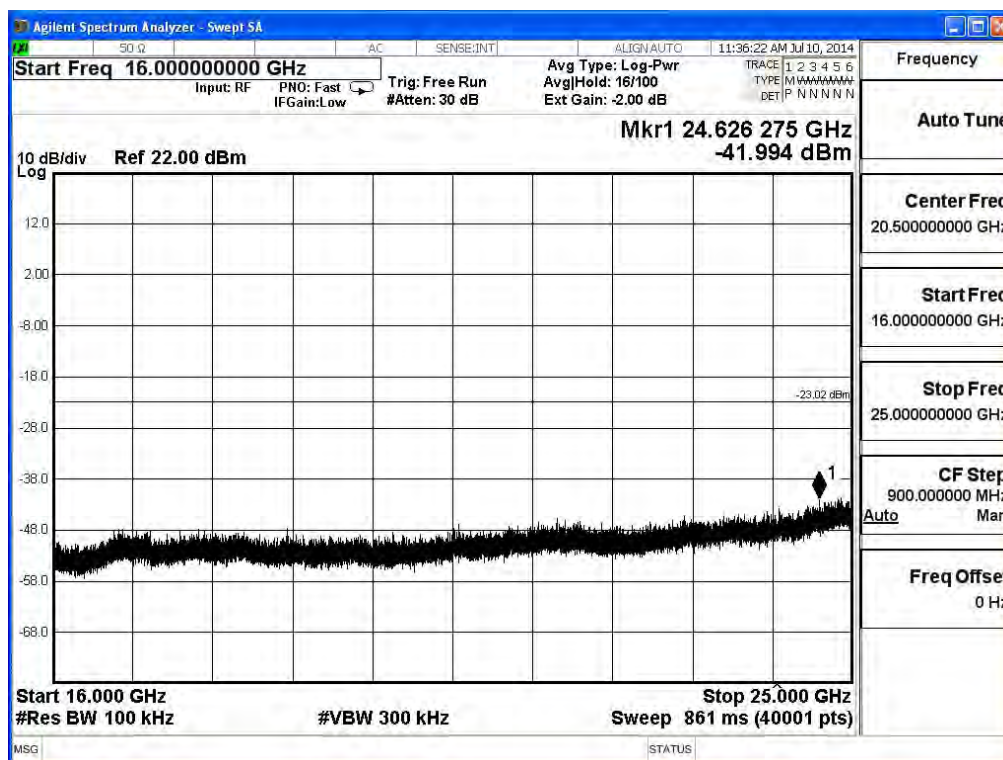
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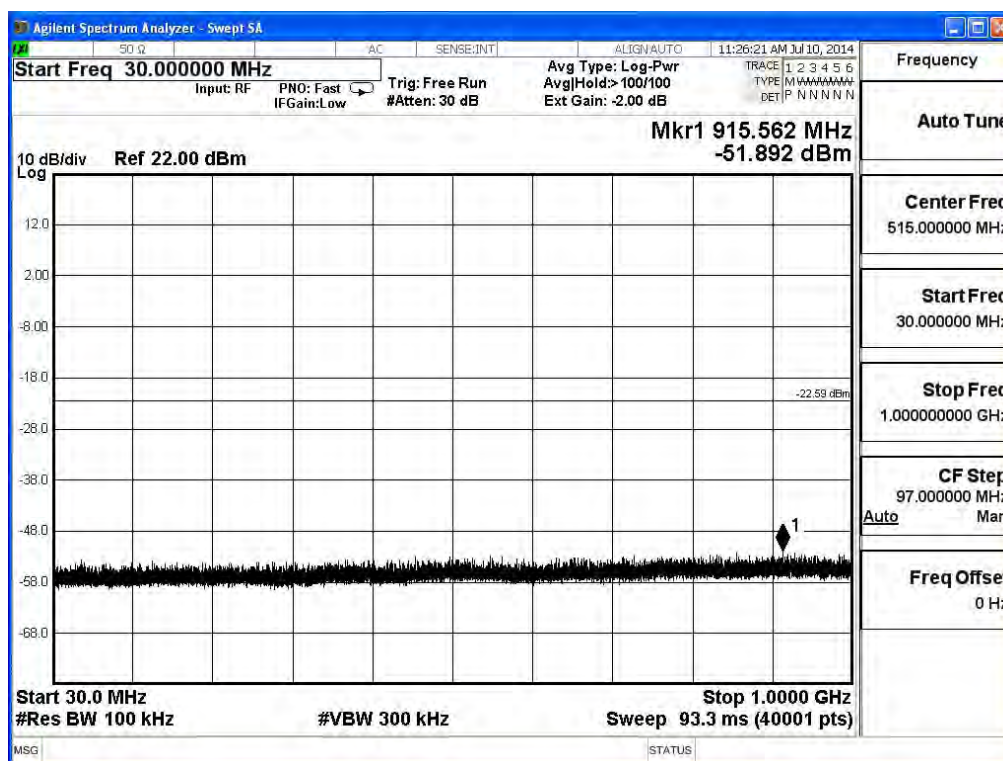
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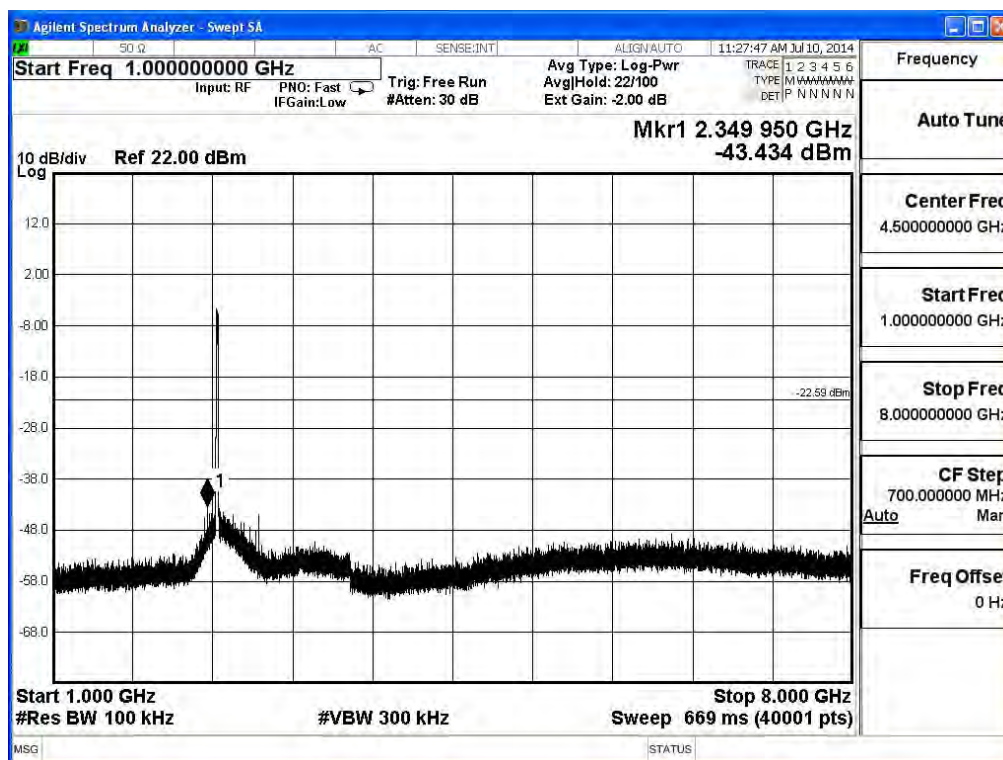
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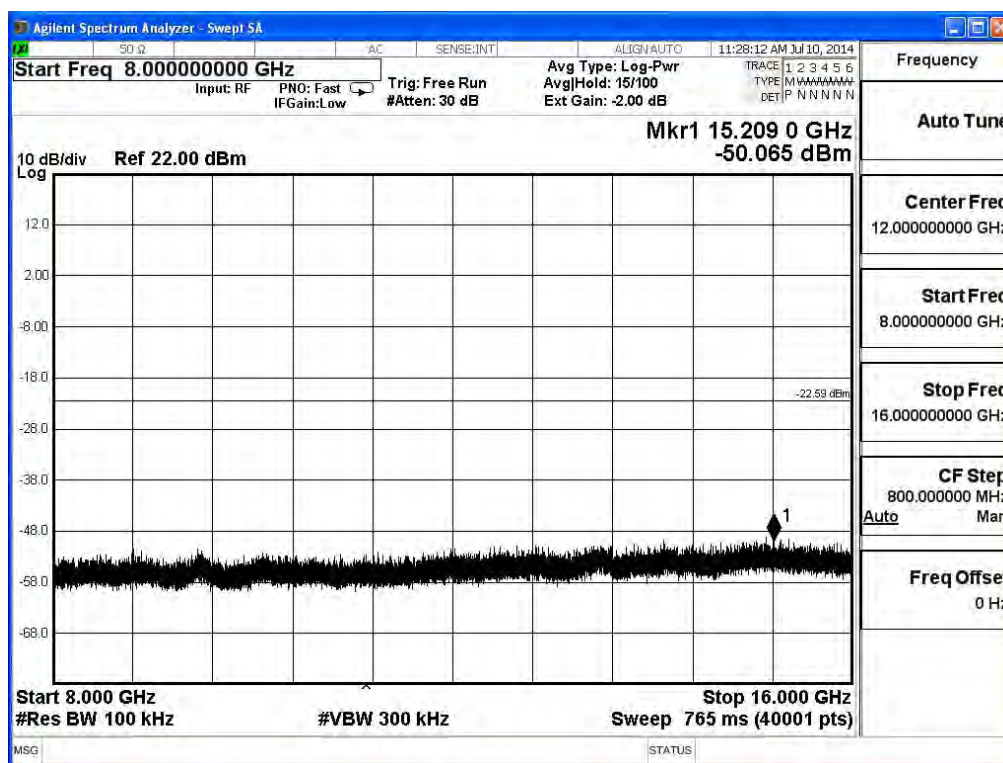
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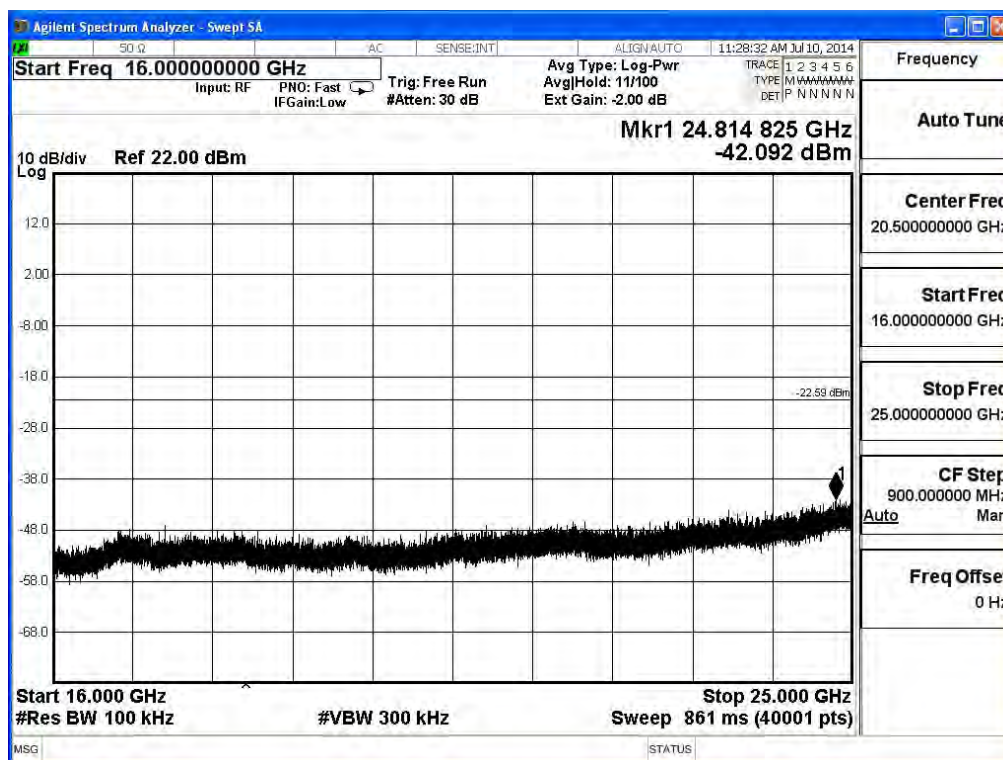
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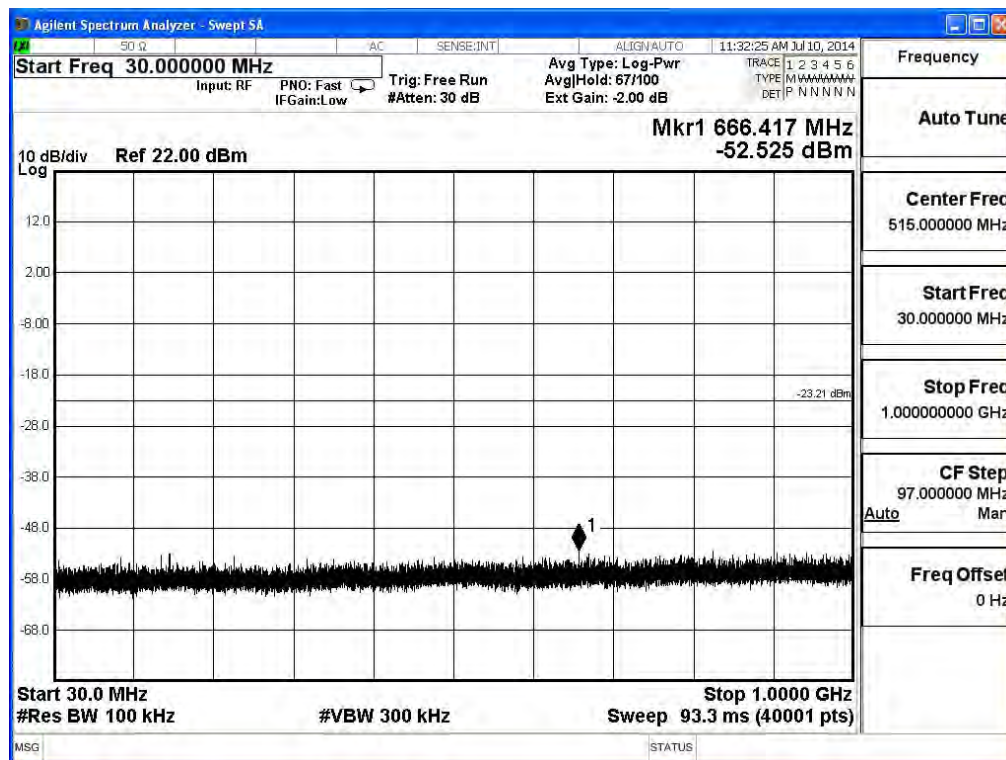
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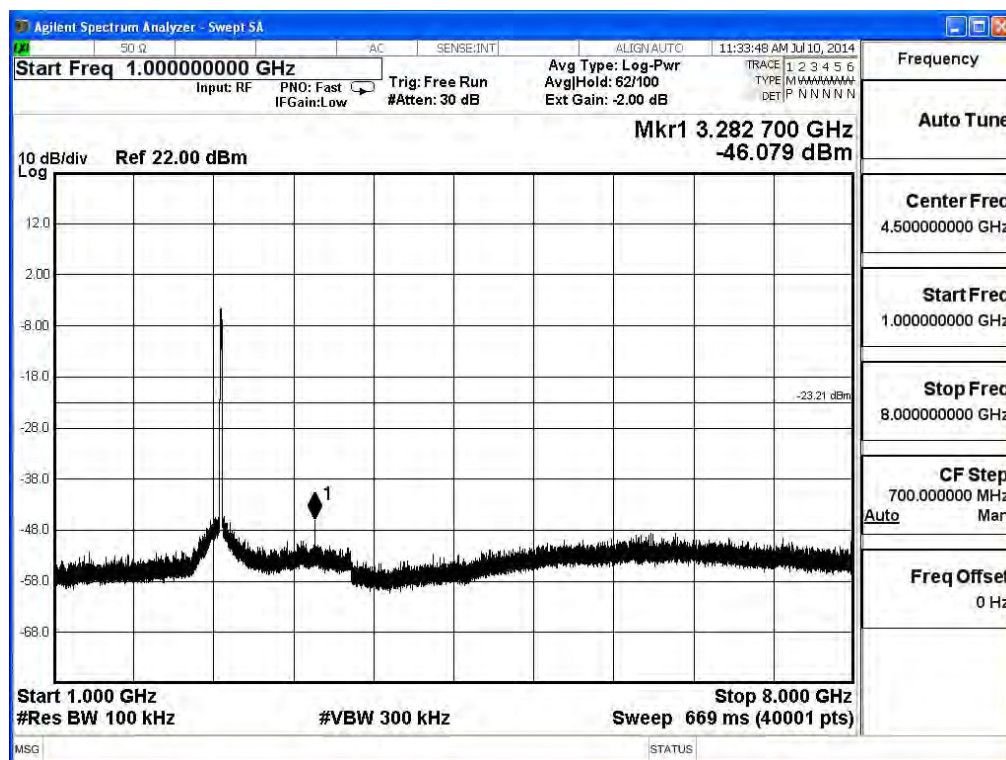
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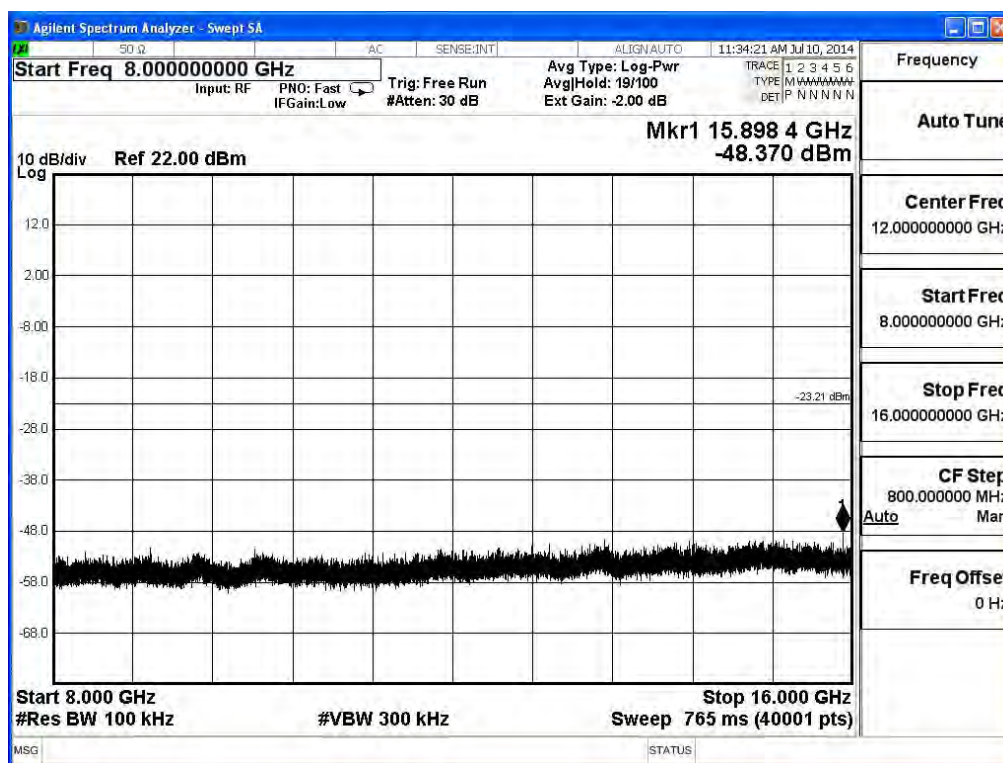
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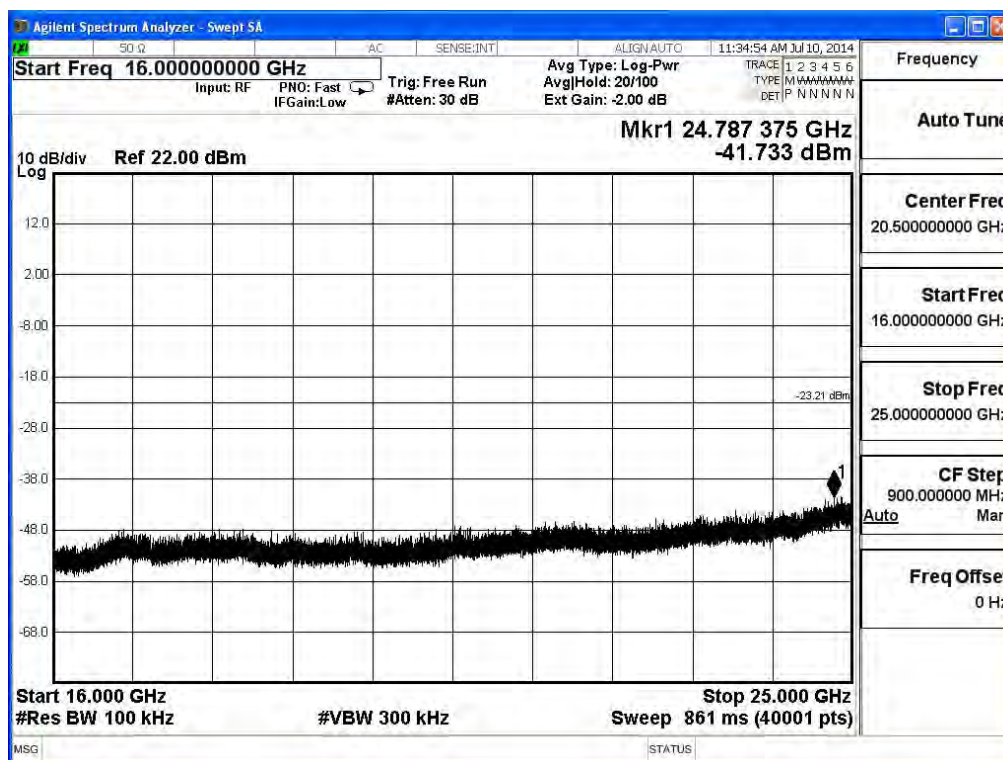
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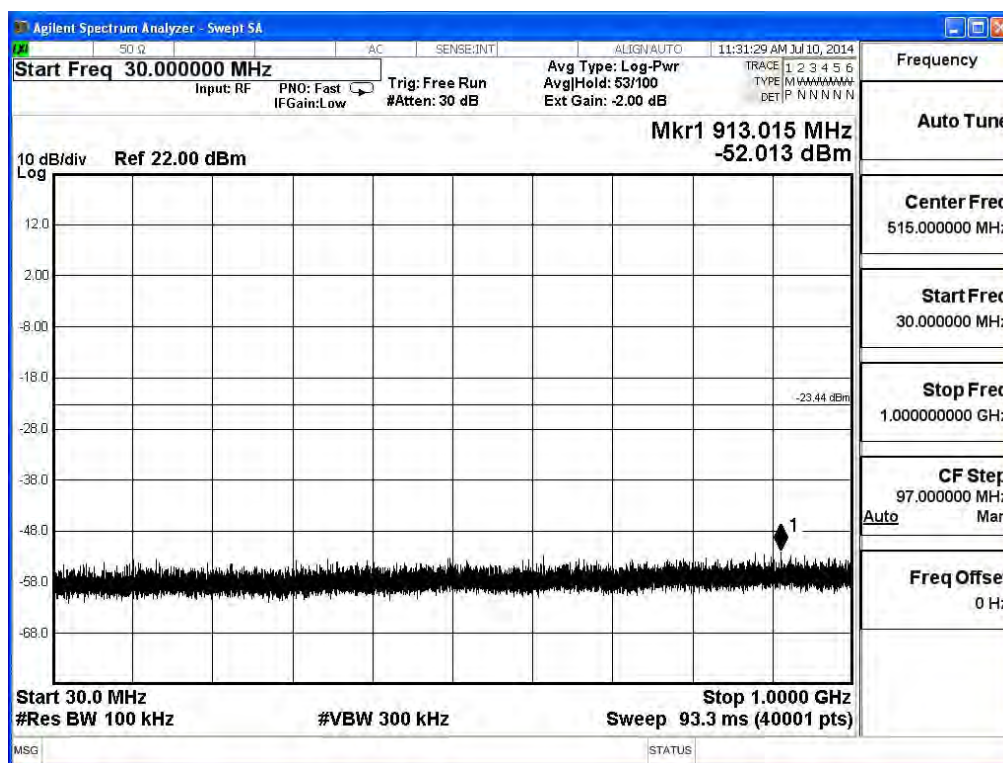
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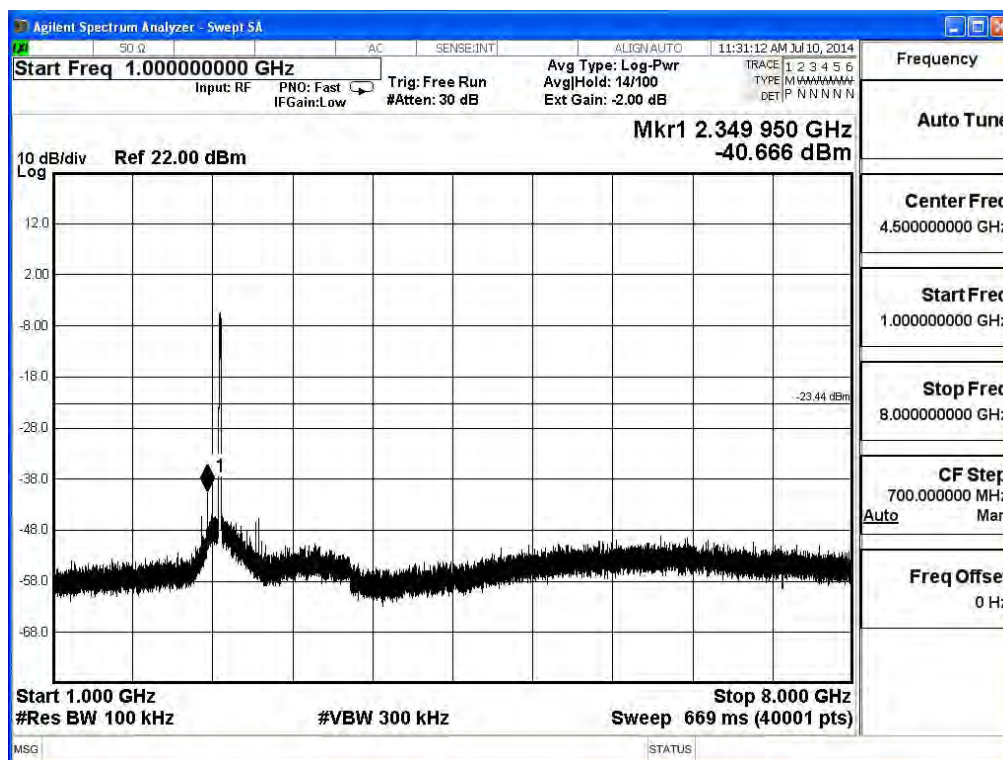
2462MHz (16GHz-25GHz) -802.11n(20MHz) (Ant 0)



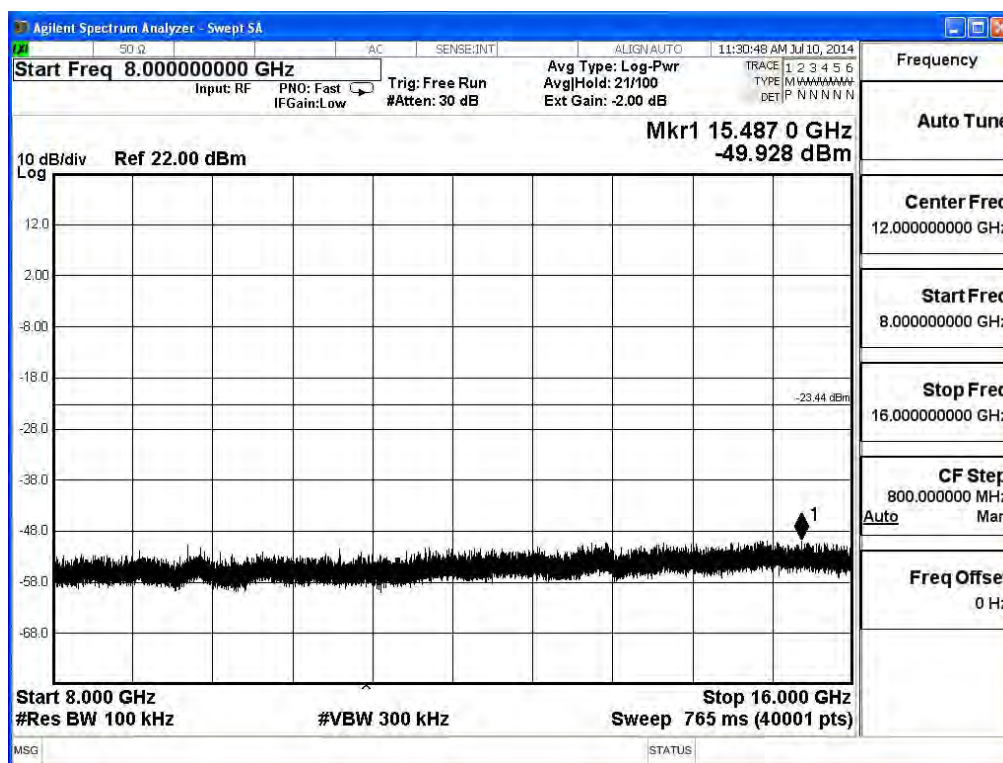
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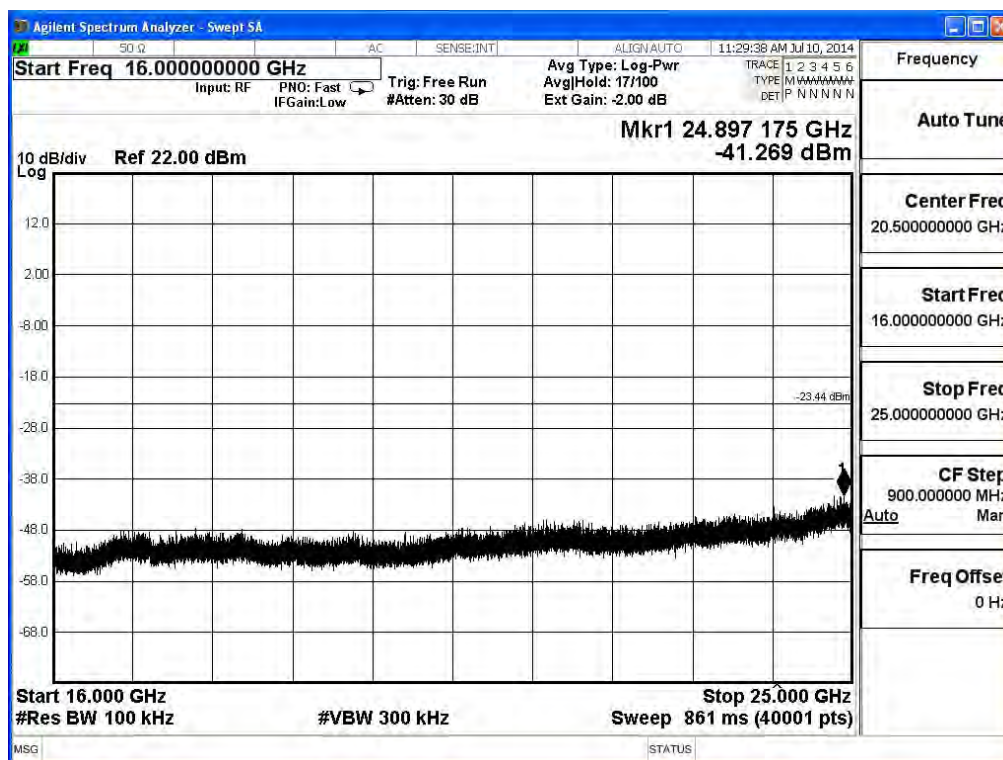
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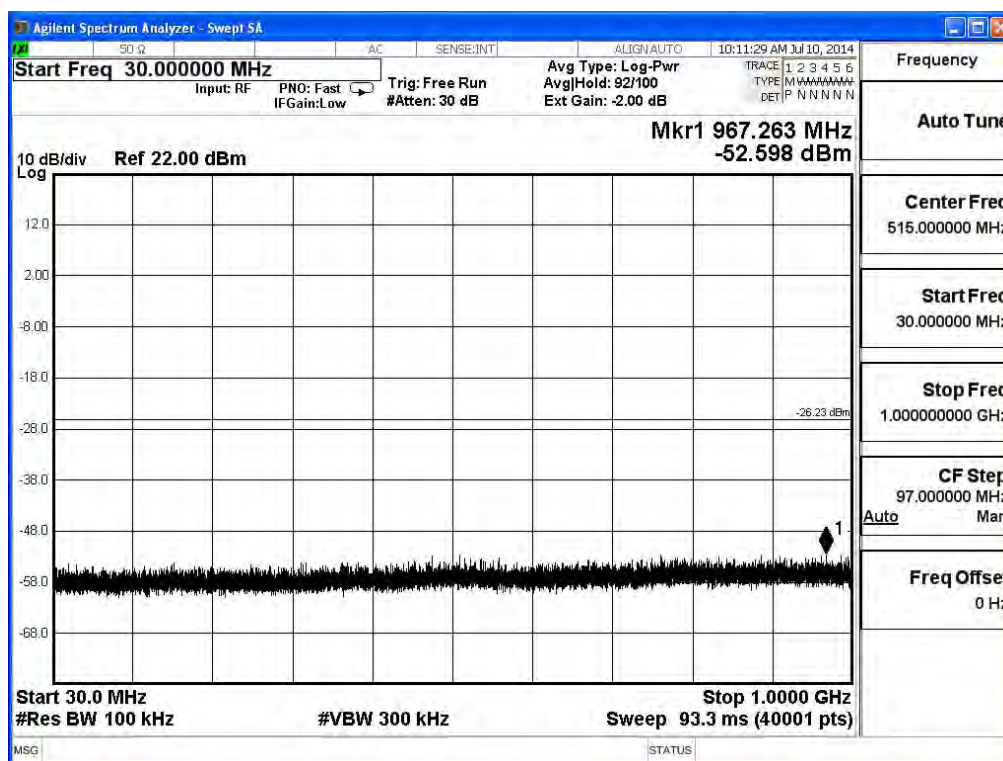
2462MHz (8GHz-16GHz)-802.11n(20MHz) (Ant 1)



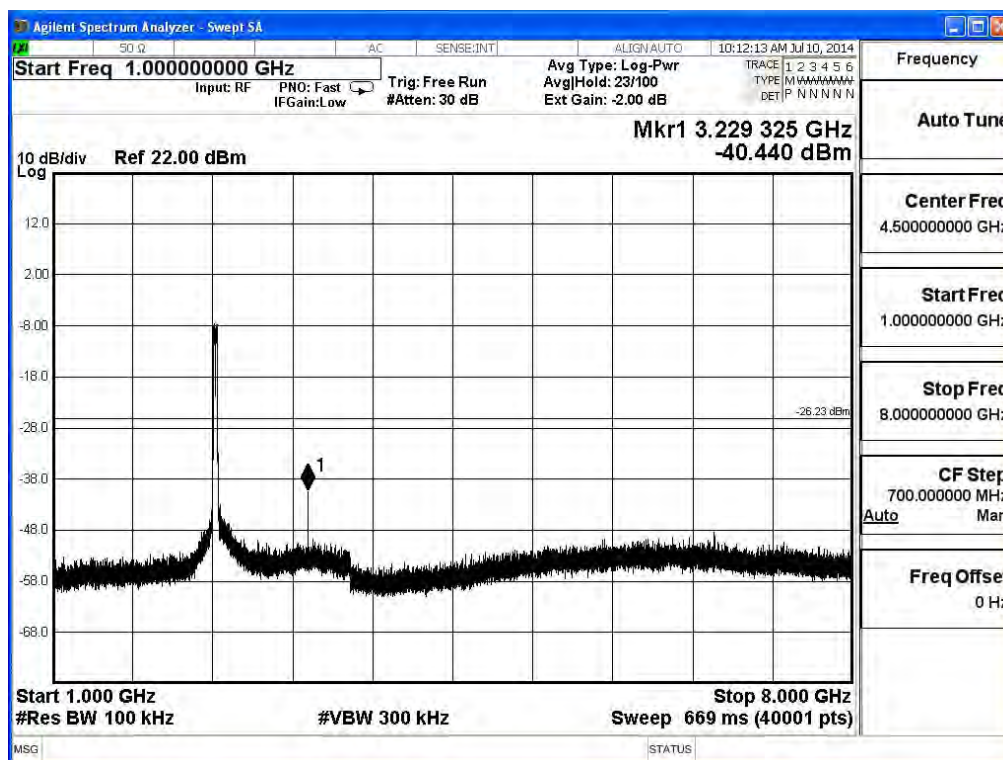
2462MHz (16GHz-25GHz) -802.11n(20MHz) (Ant 1)



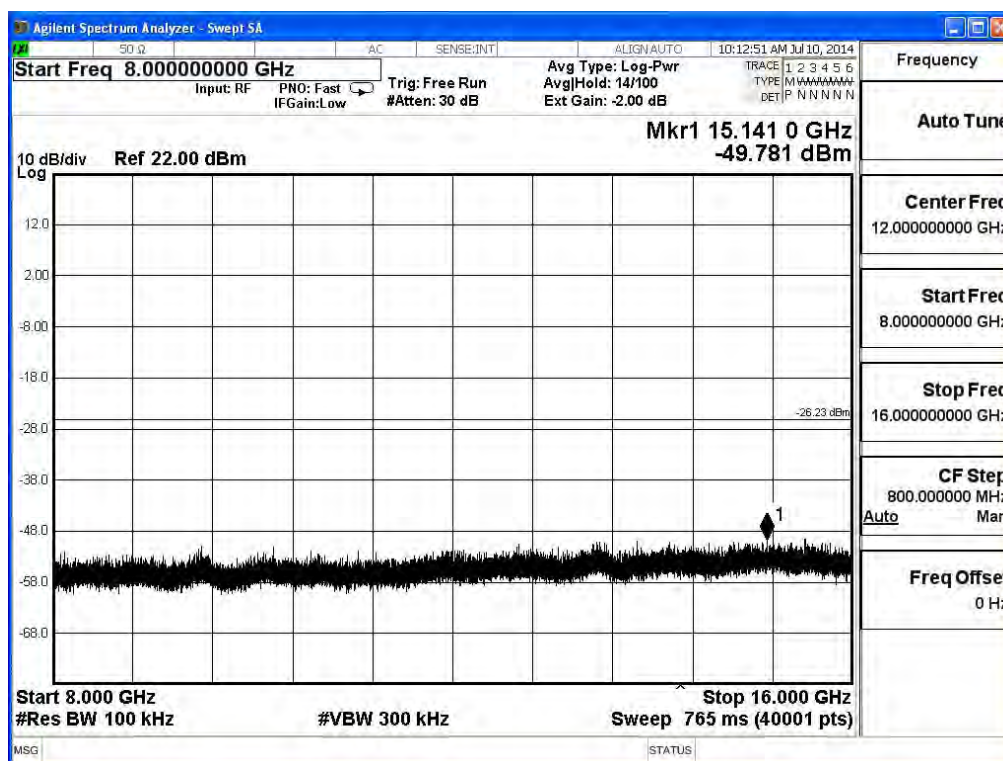
2422MHz (30MHz-1GHz)-802.11n(40MHz) (Ant 0)



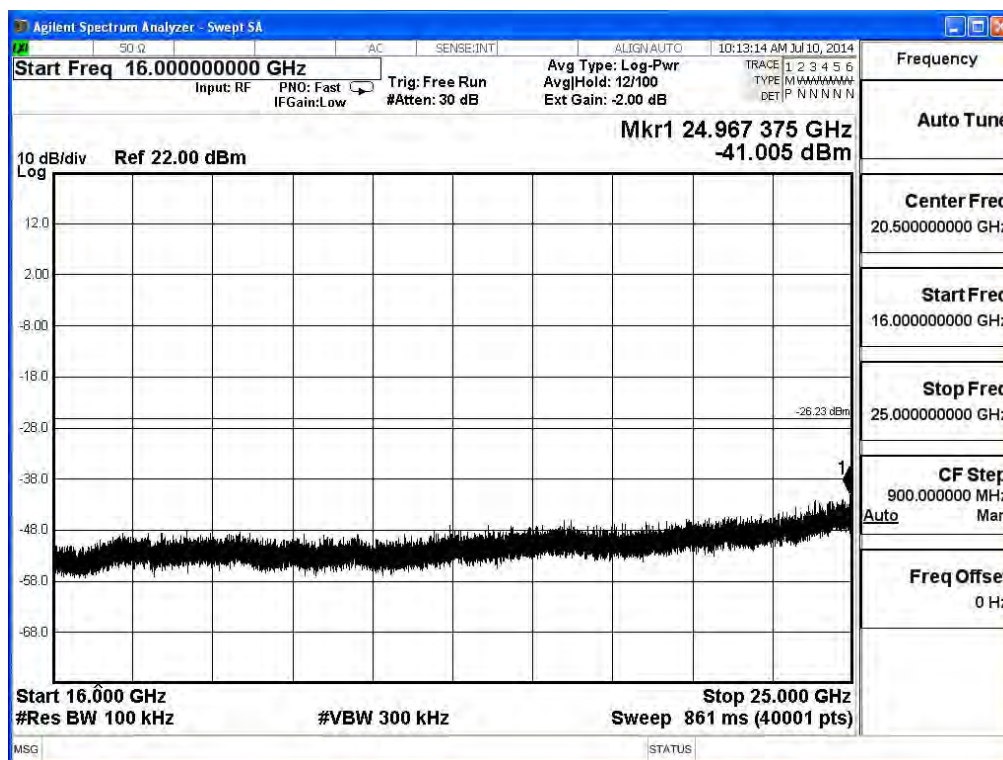
2422MHz (1GHz-8GHz) -802.11n(40MHz) (Ant 0)



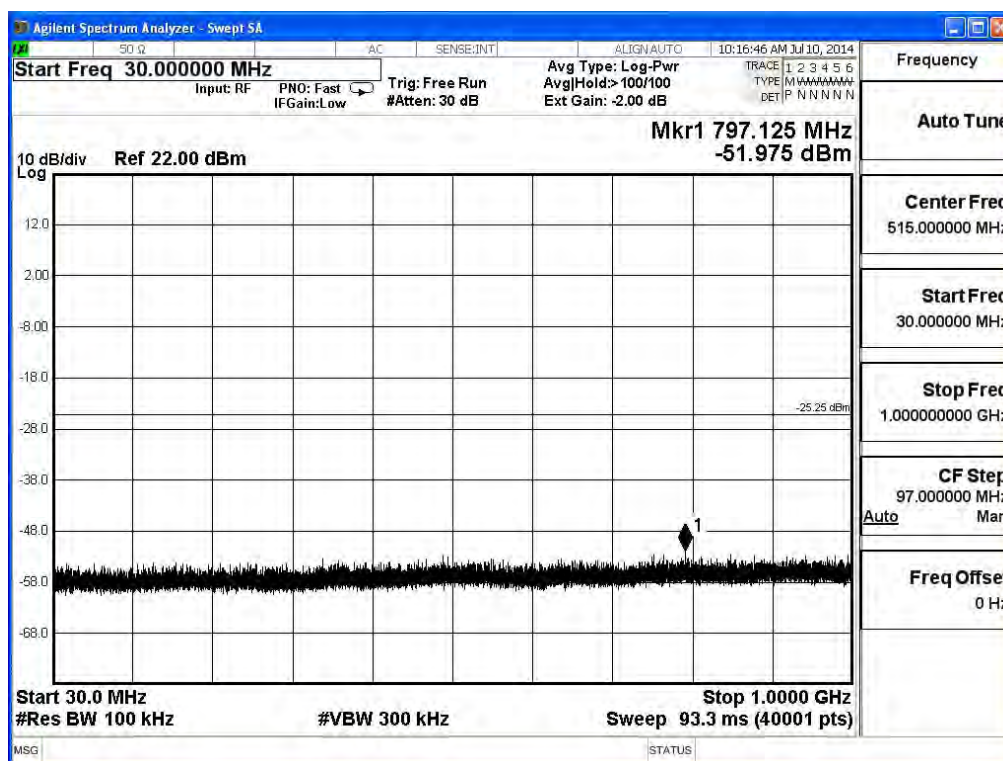
2422MHz (8GHz-16GHz)-802.11n(40MHz) (Ant 0)



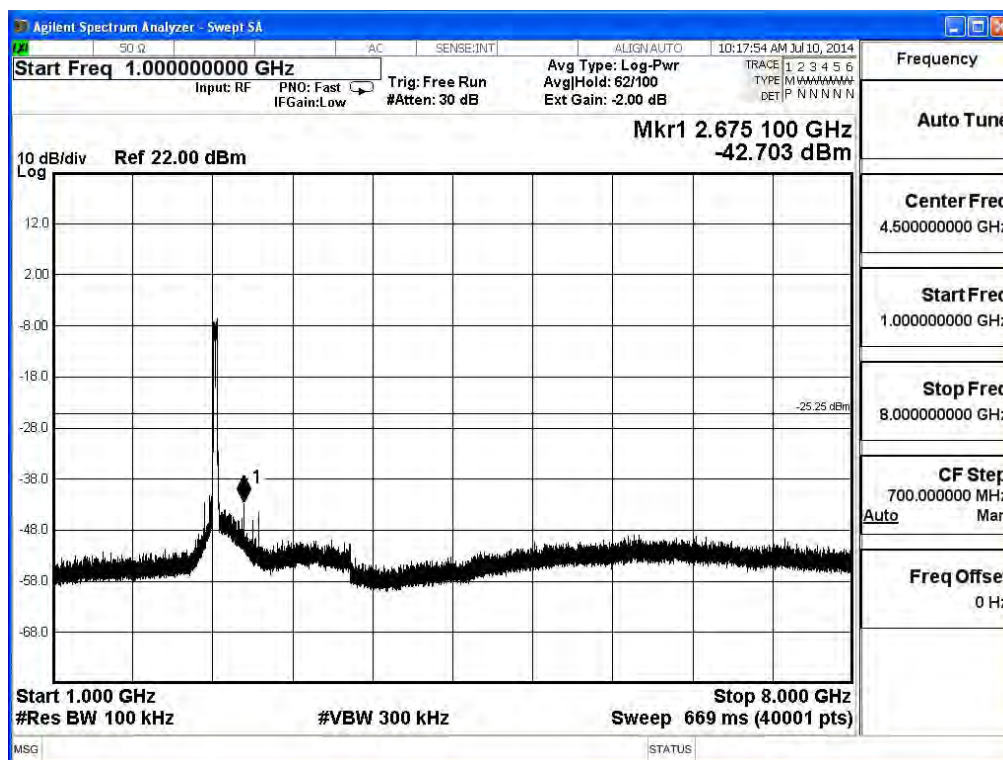
2422MHz (16GHz-25GHz) -802.11n(40MHz) (Ant 0)



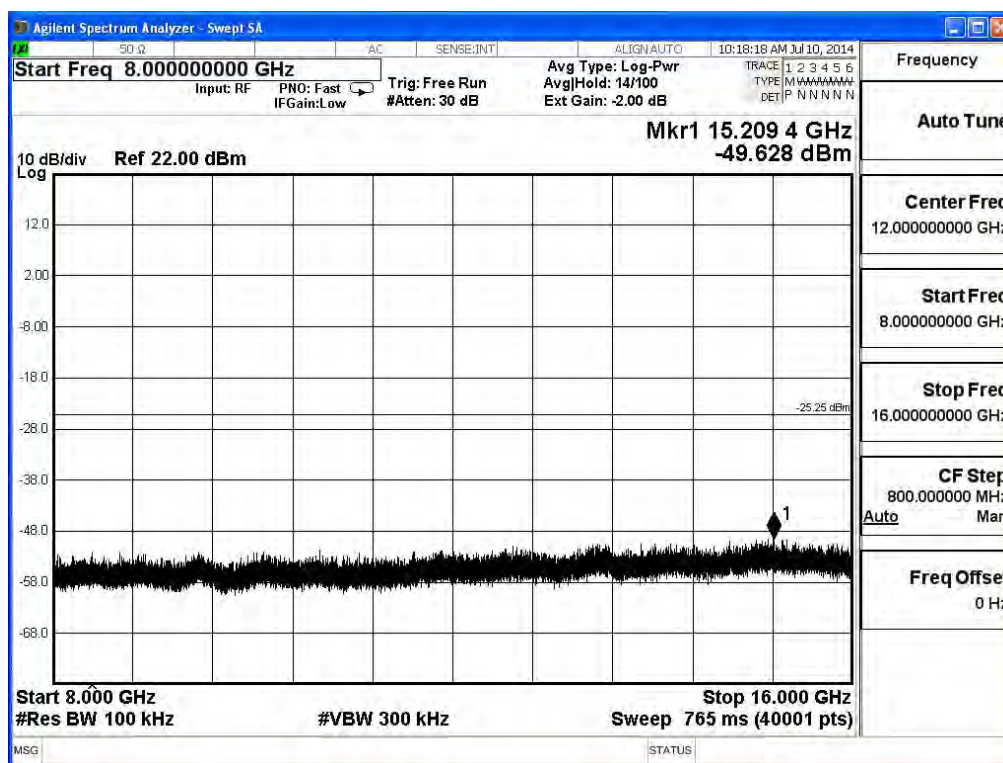
2422MHz (30MHz-1GHz)-802.11n(40MHz) (Ant 1)



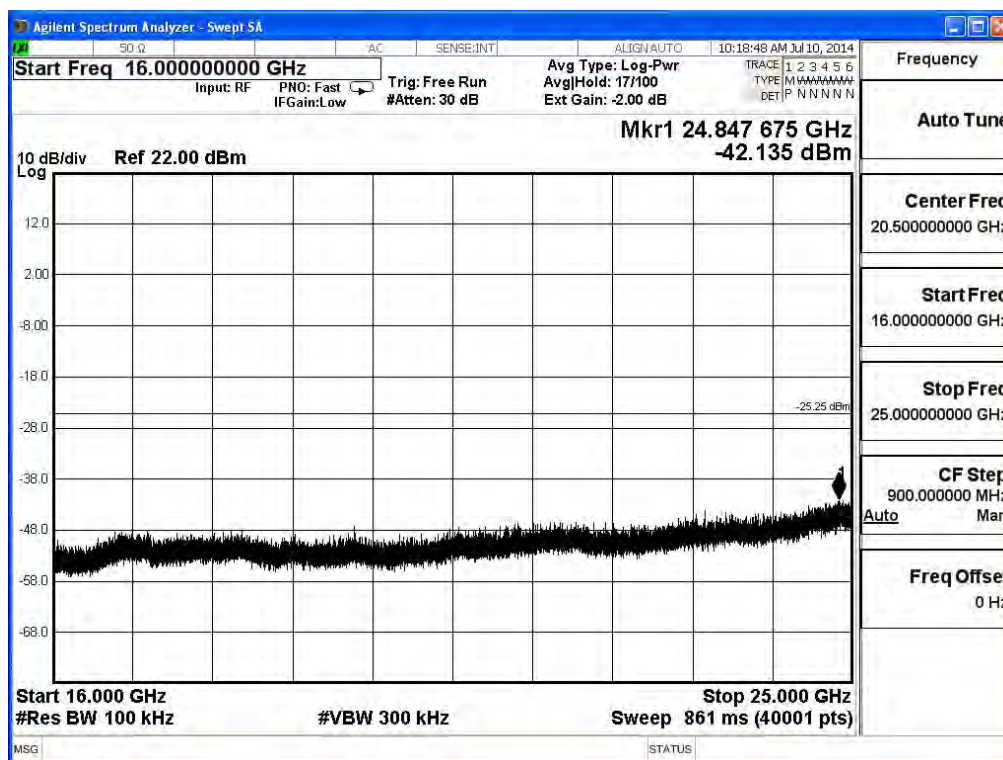
2422MHz (1GHz-8GHz) -802.11n(40MHz) (Ant 1)



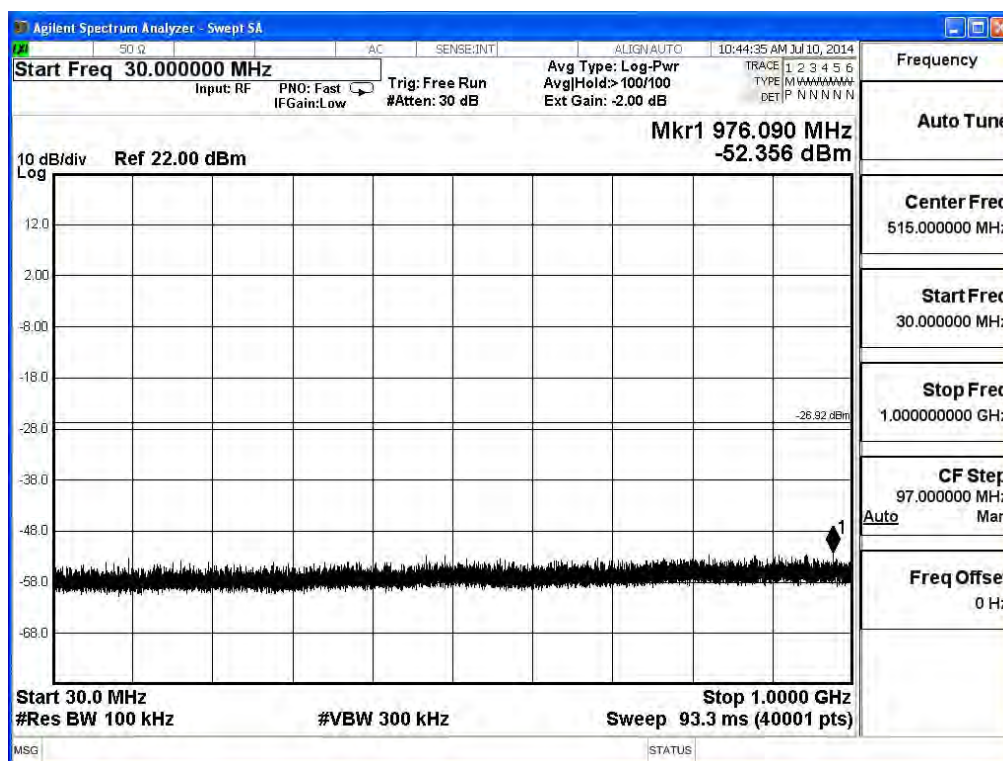
2422MHz (8GHz-16GHz)-802.11n(40MHz) (Ant 1)



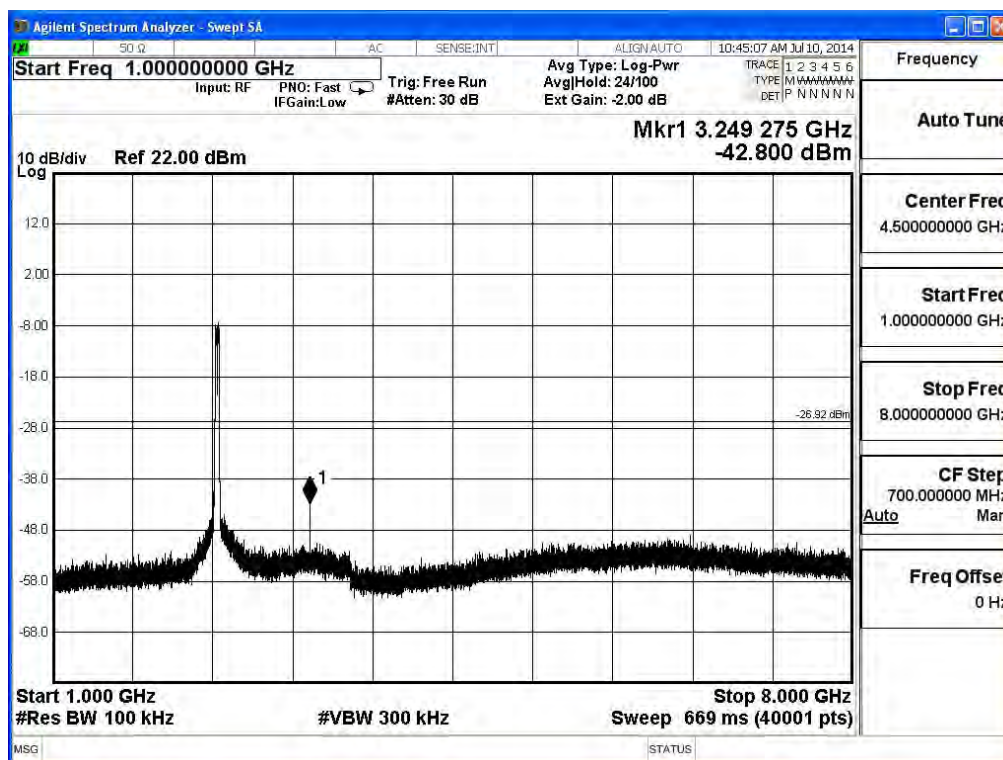
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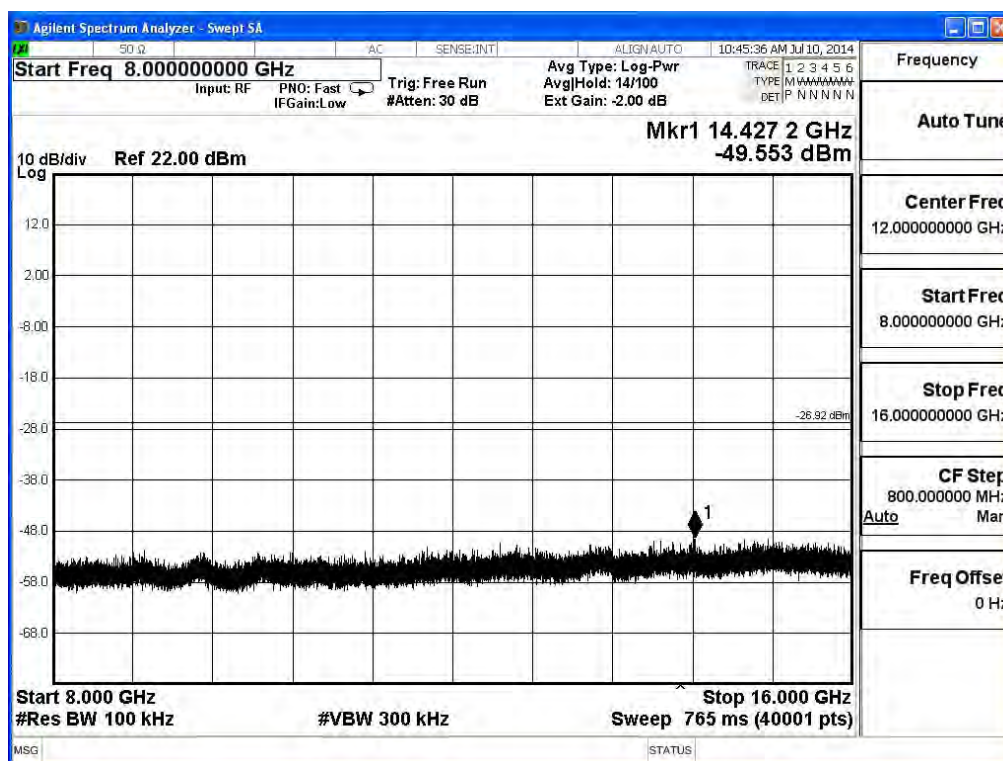
2437MHz (30MHz-1GHz) -802.11n(40MHz) (Ant 0)



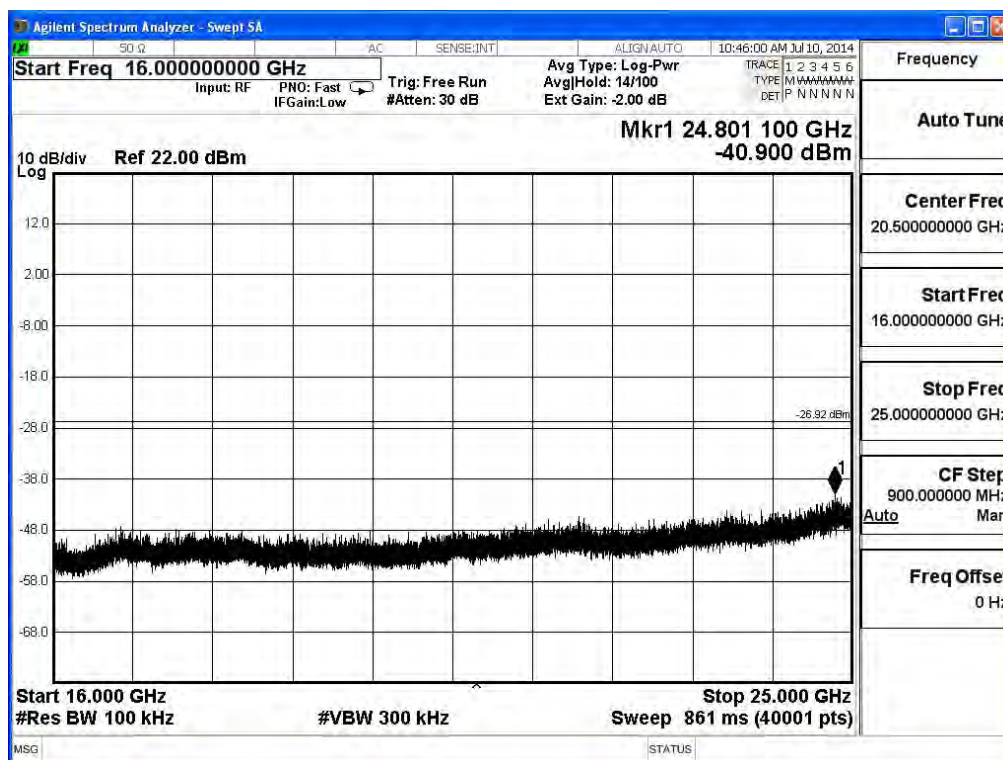
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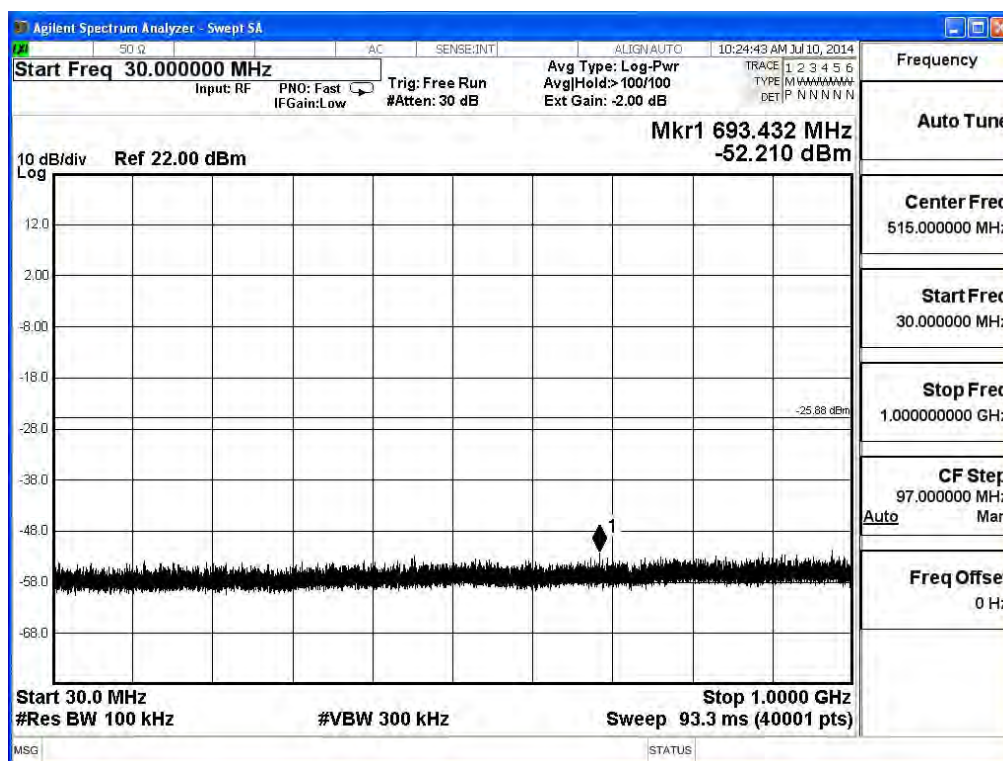
2437MHz (8GHz-16GHz) -802.11n(40MHz) (Ant 0)



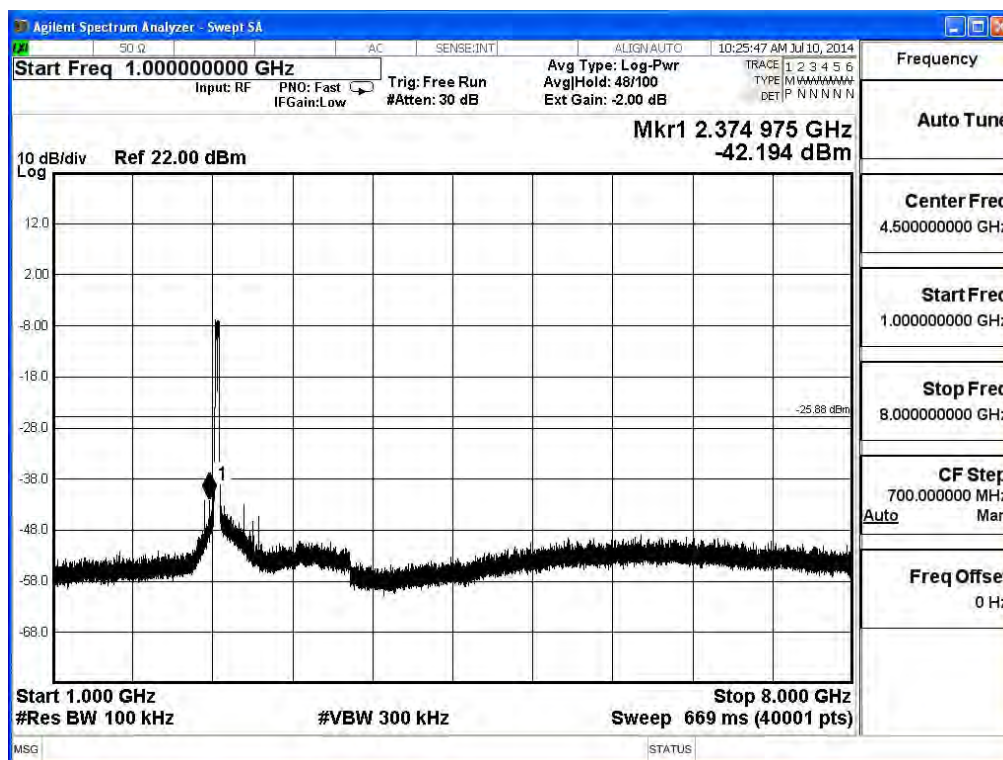
2437MHz (16GHz-25GHz) -802.11n(40MHz) (Ant 0)



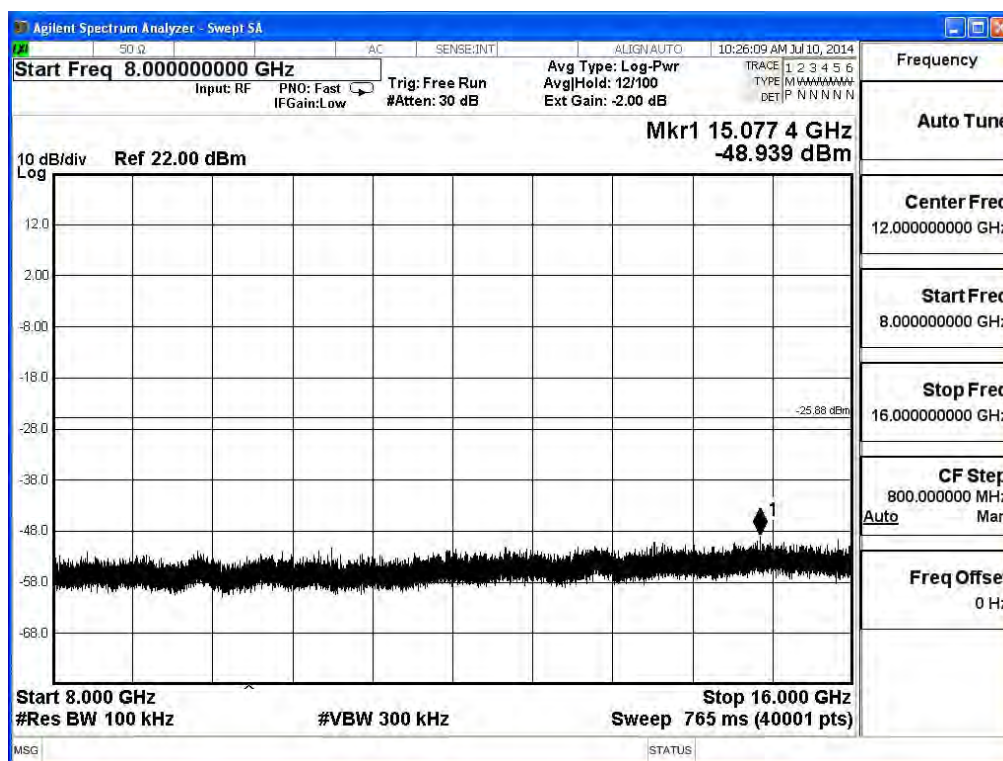
2437MHz (30MHz-1GHz) -802.11n(40MHz) (Ant 1)



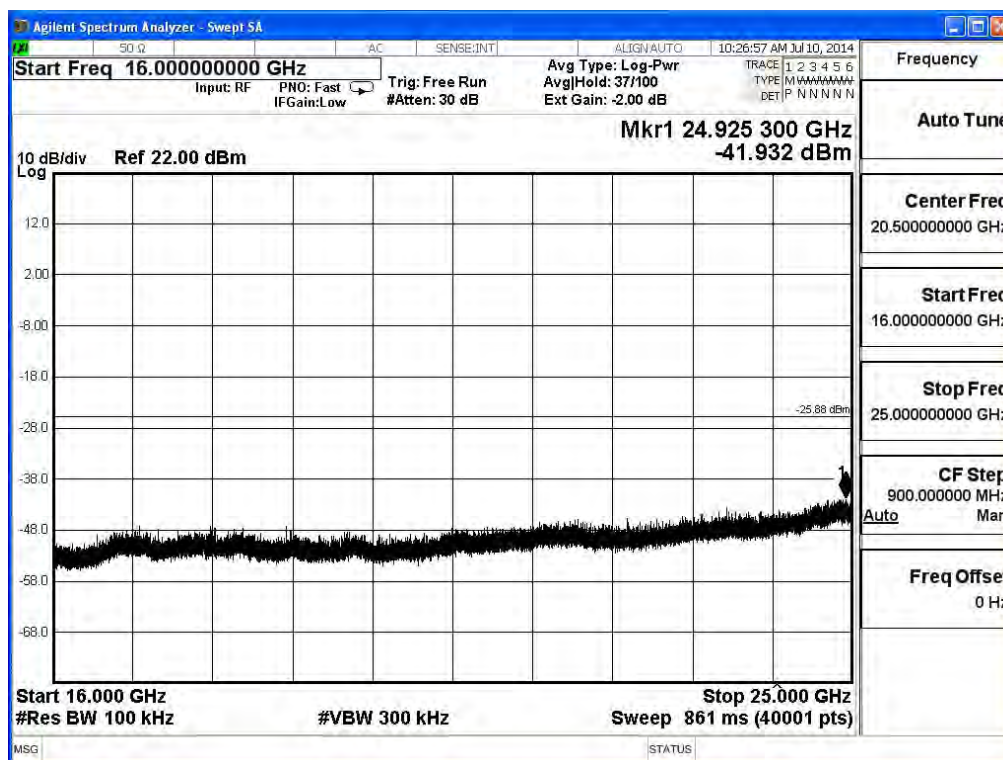
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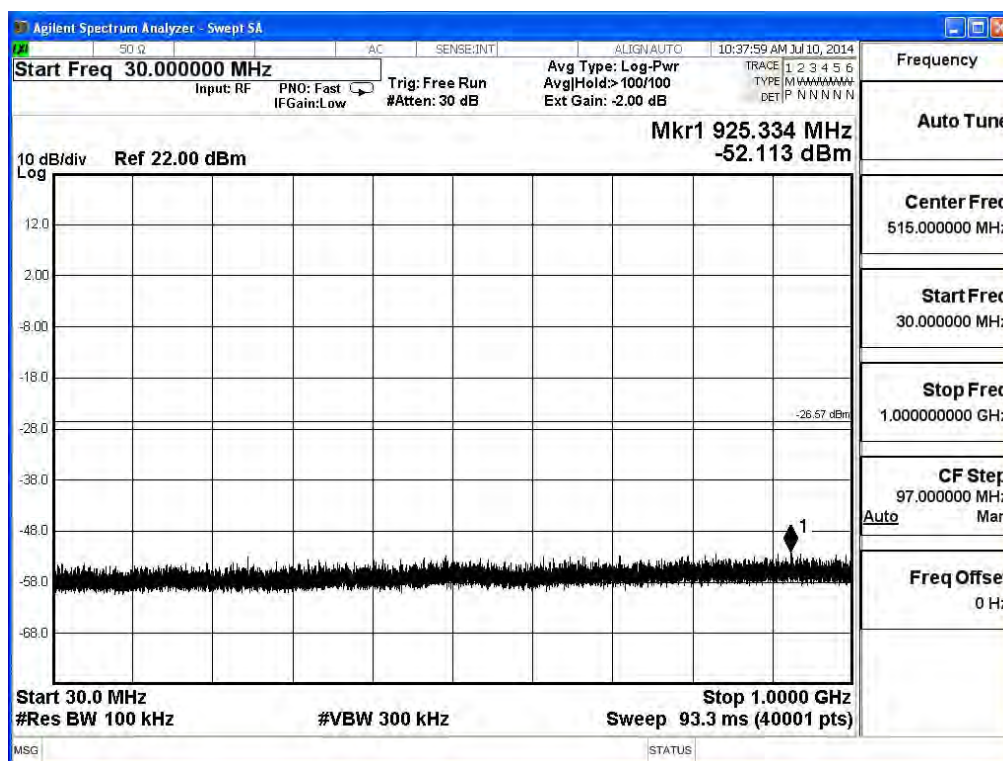
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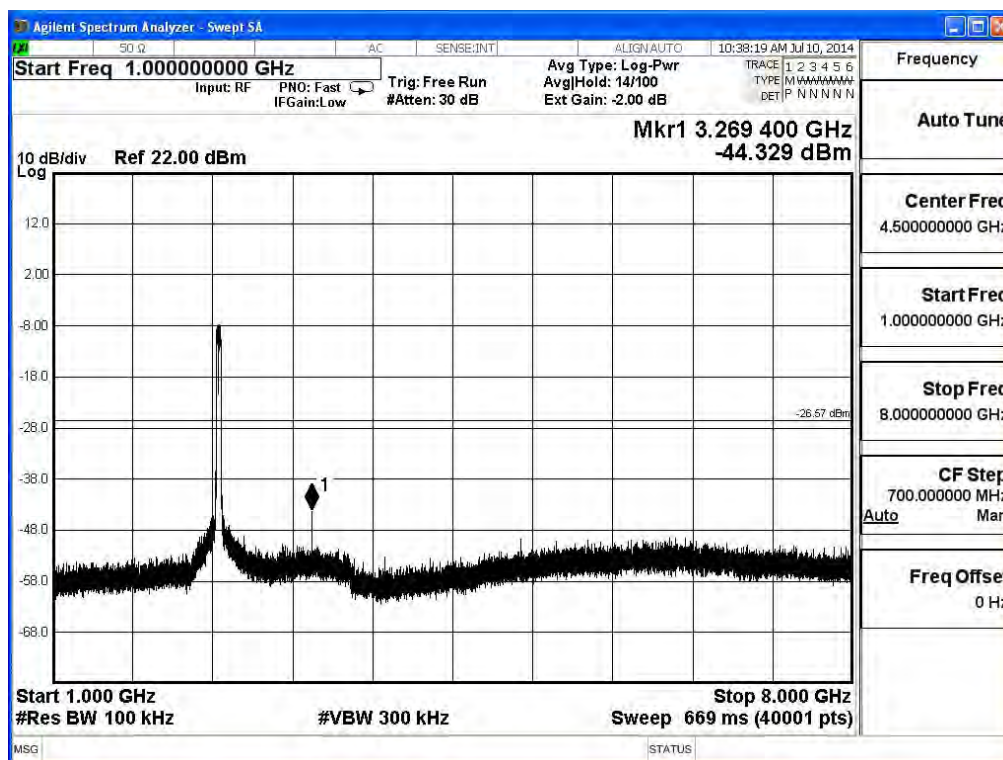
2437MHz (16GHz-25GHz) -802.11n(40MHz) (Ant 1)



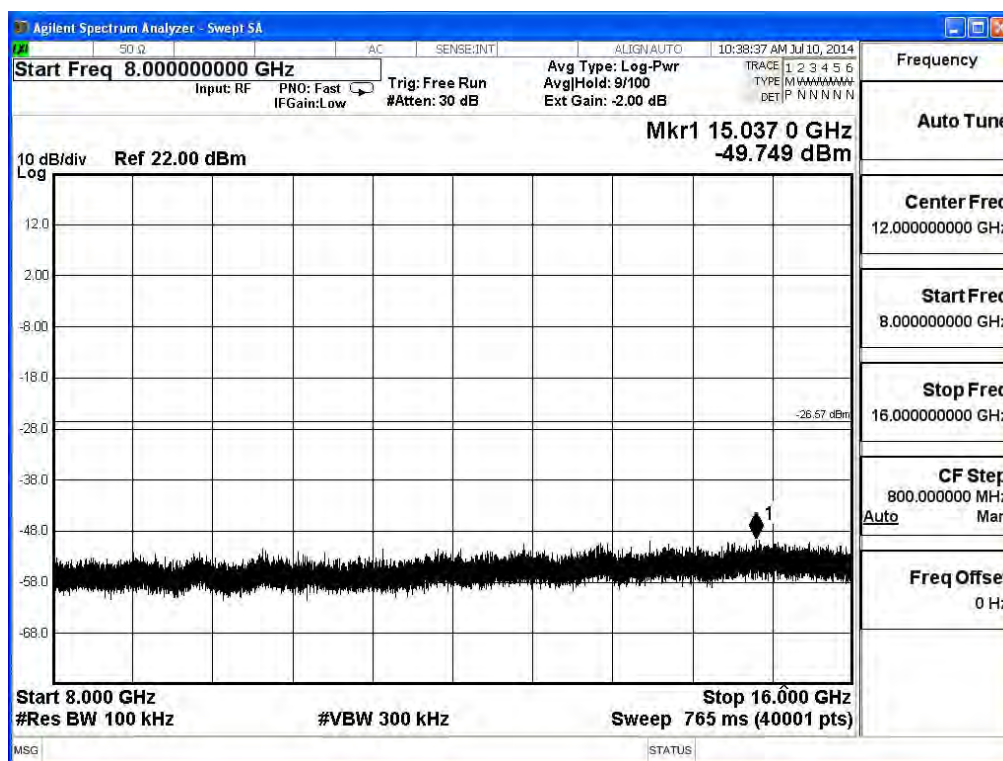
2452MHz (30MHz-1GHz)-802.11n(40MHz) (Ant 0)



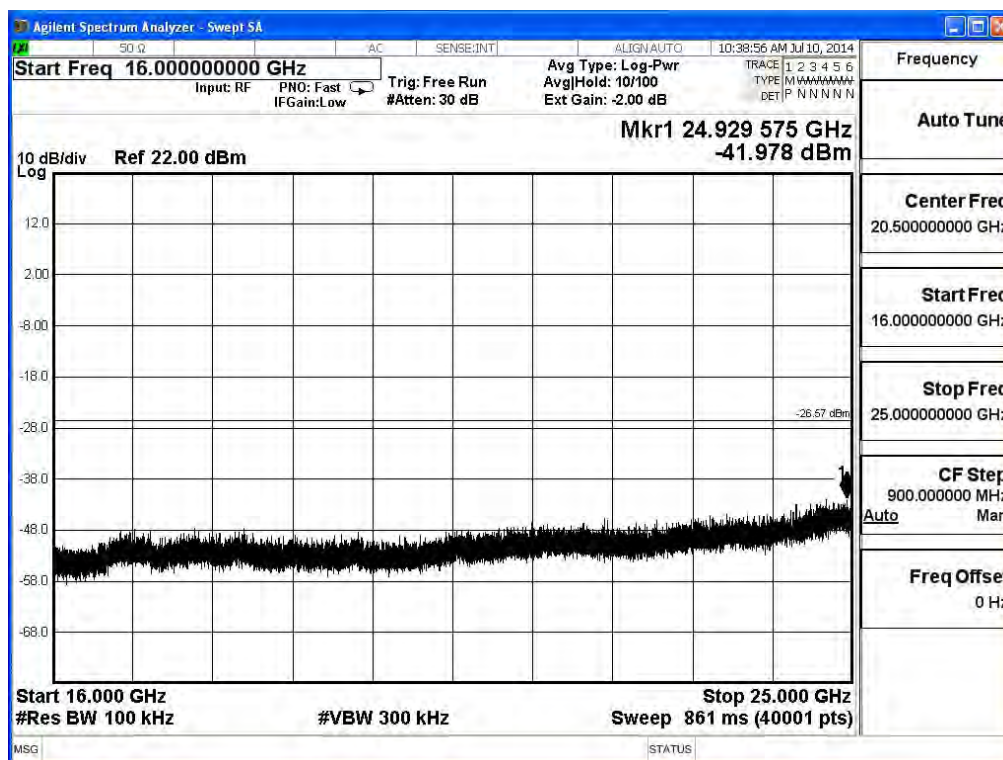
2452MHz (1GHz-8GHz) -802.11n(40MHz) (Ant 0)



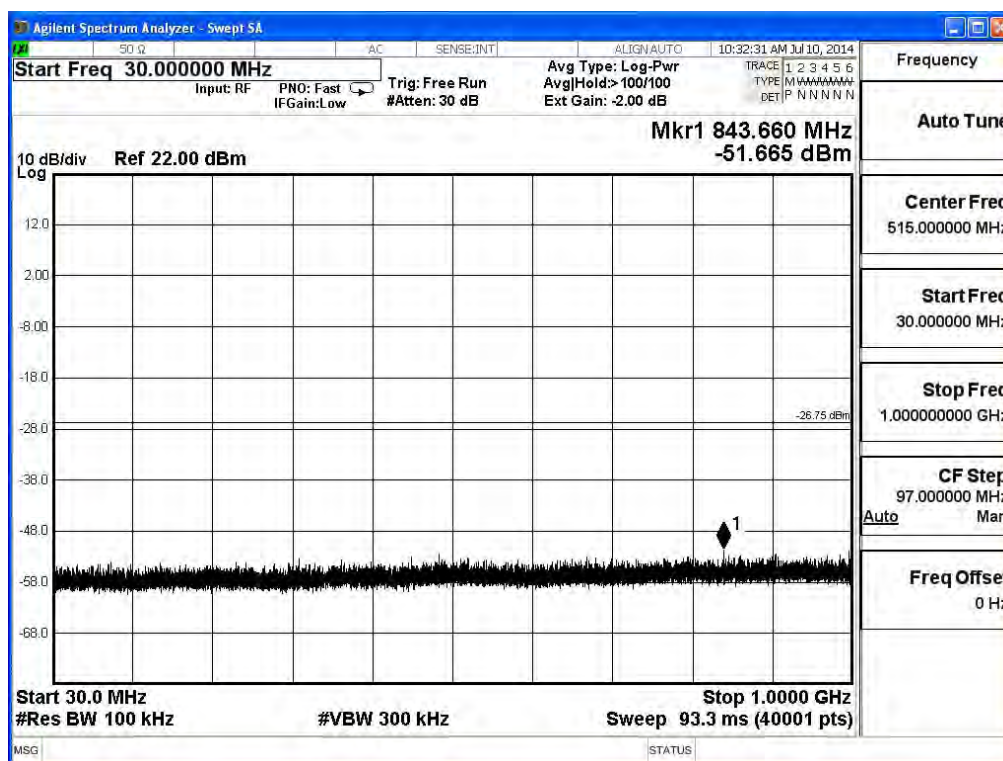
2452MHz (8GHz-16GHz)-802.11n(40MHz) (Ant 0)



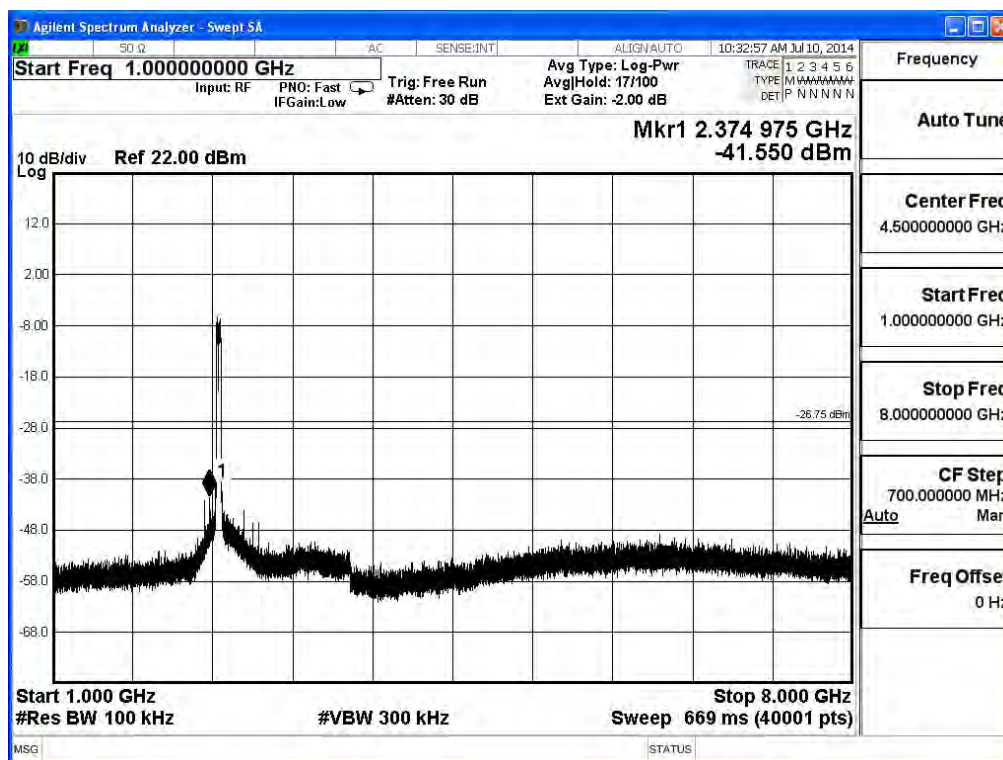
2452MHz (16GHz-25GHz) -802.11n(40MHz) (Ant 0)



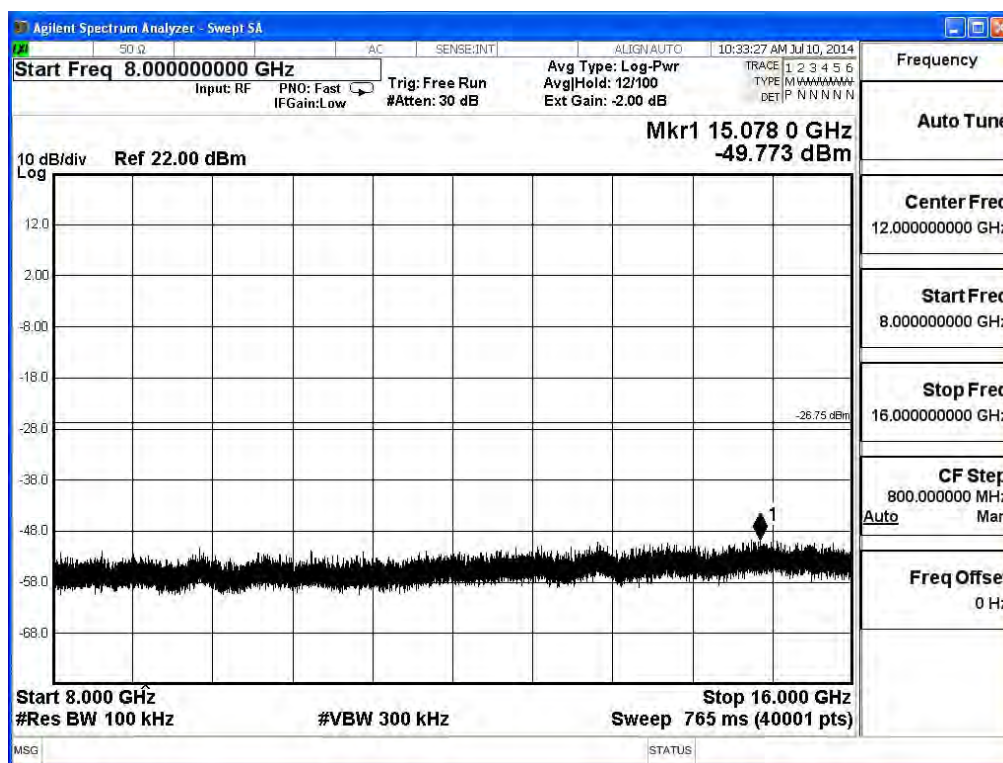
2452MHz (30MHz-1GHz)-802.11n(40MHz) (Ant 1)



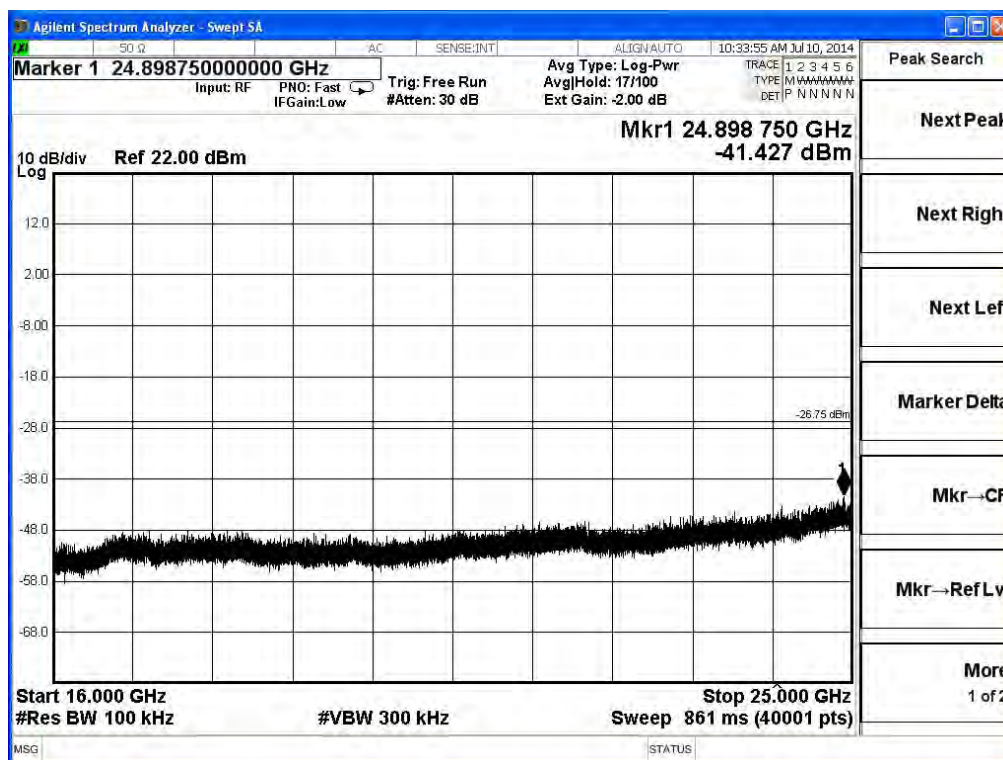
2452MHz (1GHz-8GHz) -802.11n(40MHz) (Ant 1)



2452MHz (8GHz-16GHz)-802.11n(40MHz) (Ant 1)



2452MHz (16GHz-25GHz) -802.11n(40MHz) (Ant 1)



6. Radiated Emission Band Edge

6.1. Test Equipment

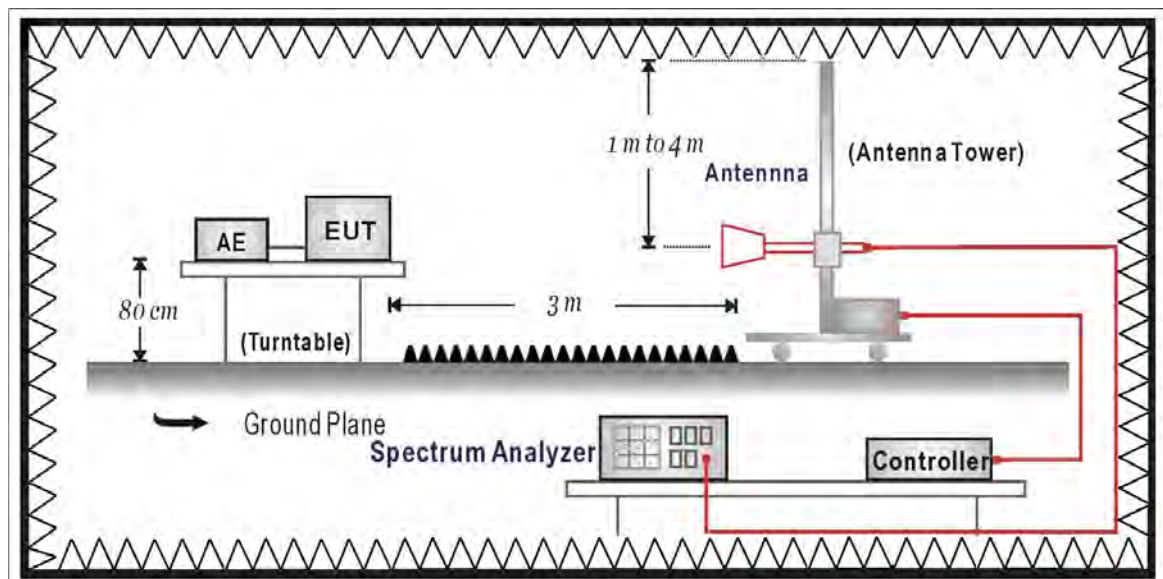
The following test equipments are used during the test:

Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

Note: 1. 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 C63.4: 2009 and tested according to DTS test procedure of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 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 C63.4: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

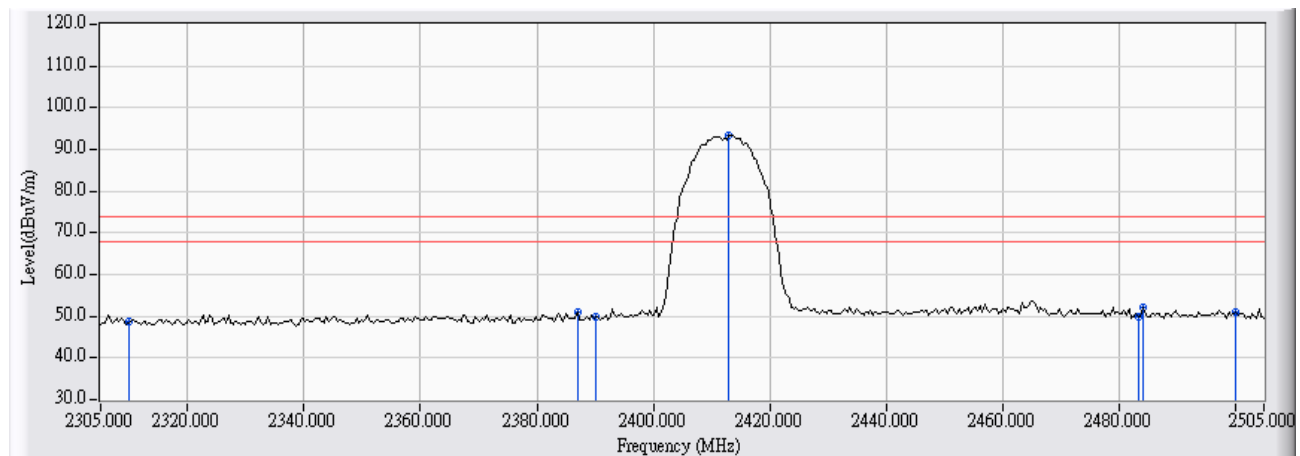
6.6. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2014/08/07 - 16:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch1

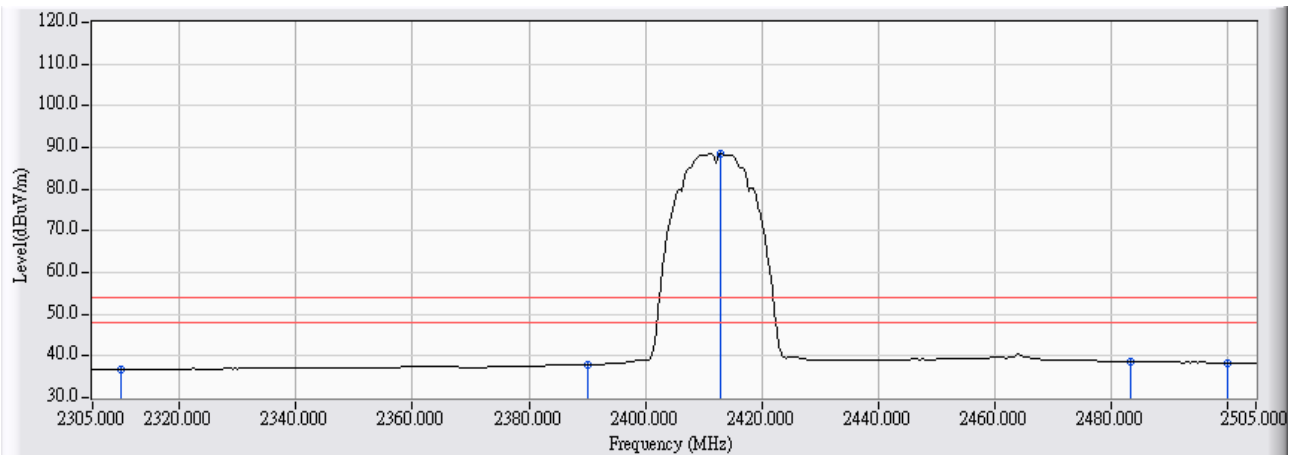


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.169	48.616	-25.384	74.000	PEAK
2		2387.000	26.666	24.508	51.174	-22.826	74.000	PEAK
3		2390.000	26.674	23.025	49.699	-24.301	74.000	PEAK
4	*	2413.000	26.740	66.620	93.360	19.360	74.000	PEAK
5		2483.500	26.940	23.047	49.987	-24.013	74.000	PEAK
6		2484.200	26.942	25.348	52.290	-21.710	74.000	PEAK
7		2500.000	26.989	23.872	50.860	-23.140	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 : CB1	Time : 2014/08/07 - 16:38
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch1

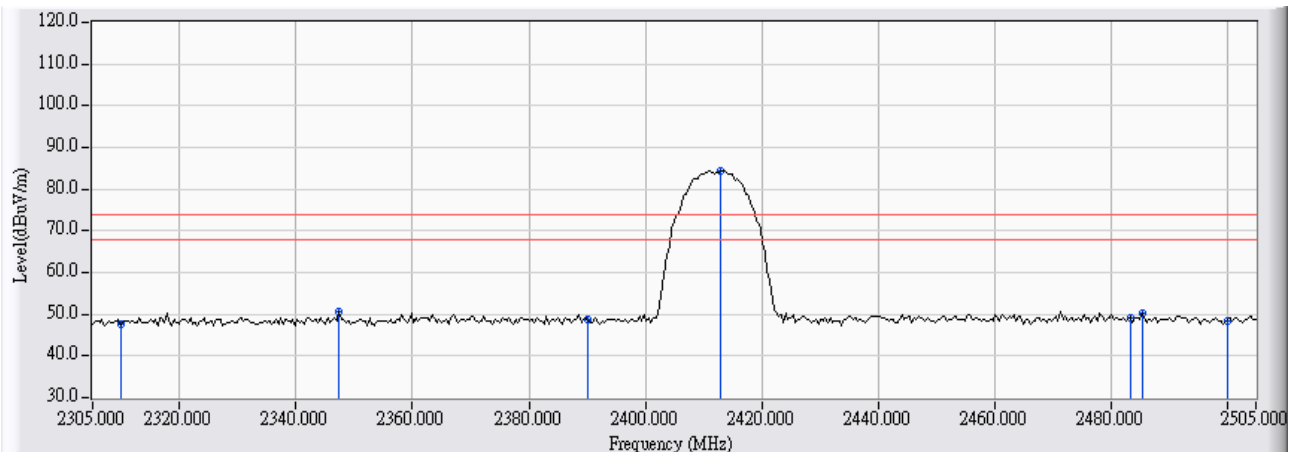


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.392	36.839	-17.161	54.000	AVERAGE
2	2390.000	26.674	11.284	37.958	-16.042	54.000	AVERAGE
3	* 2413.000	26.740	61.935	88.675	34.675	54.000	AVERAGE
4	2483.500	26.940	11.538	38.478	-15.522	54.000	AVERAGE
5	2500.000	26.989	11.335	38.323	-15.677	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 : CB1	Time : 2014/08/07 - 16:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch1

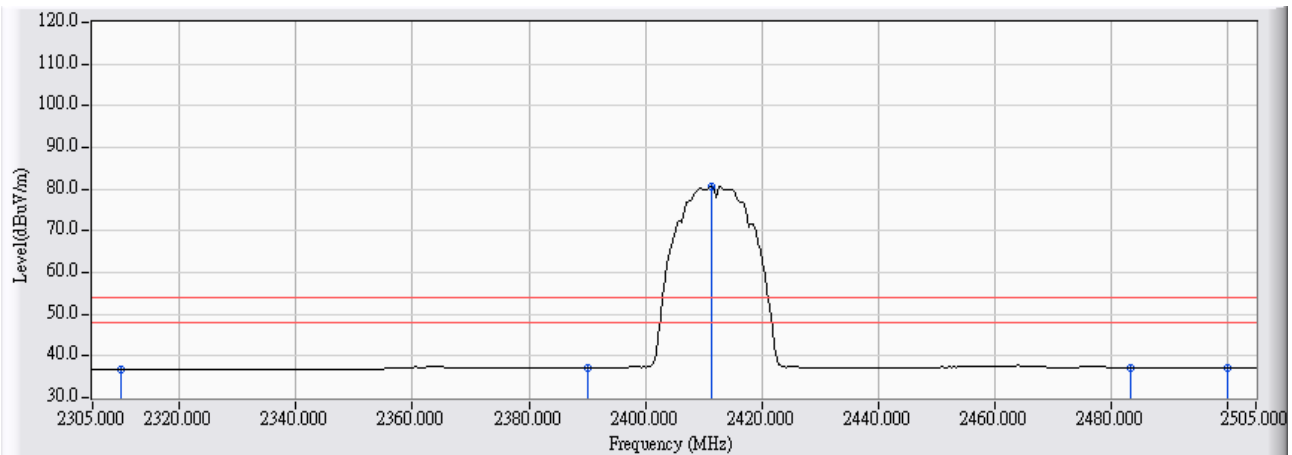


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	21.313	47.760	-26.240	74.000	PEAK
2		2347.400	26.554	23.938	50.492	-23.508	74.000	PEAK
3		2390.000	26.674	21.985	48.659	-25.341	74.000	PEAK
4	*	2413.000	26.740	57.691	84.431	10.431	74.000	PEAK
5		2483.500	26.940	22.076	49.016	-24.984	74.000	PEAK
6		2485.400	26.945	23.276	50.221	-23.779	74.000	PEAK
7		2500.000	26.989	21.499	48.487	-25.513	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 : CB1	Time : 2014/08/07 - 16:05
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch1

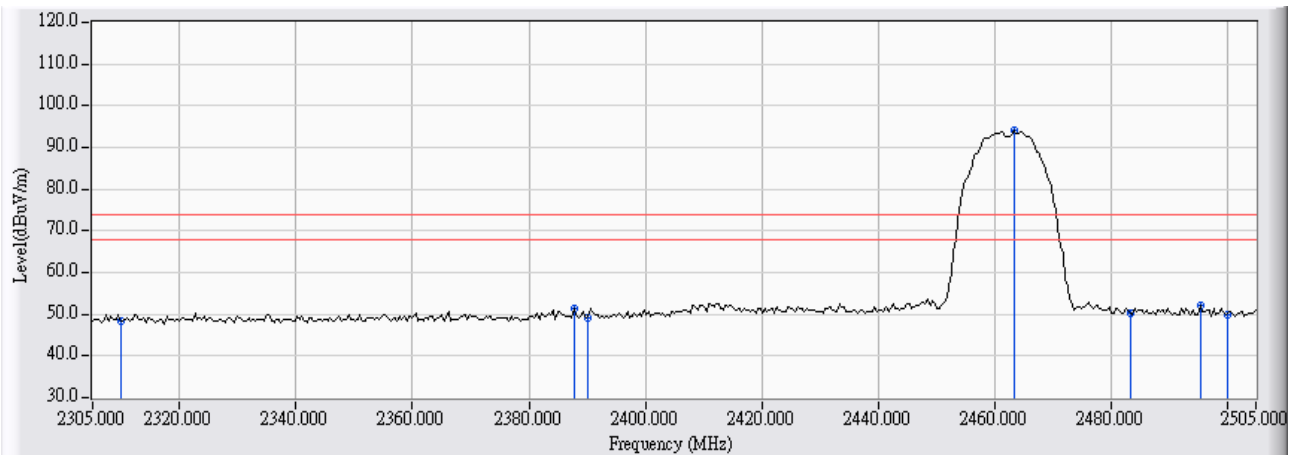


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.240	36.687	-17.313	54.000	AVERAGE
2	2390.000	26.674	10.467	37.141	-16.859	54.000	AVERAGE
3	* 2411.400	26.735	53.903	80.638	26.638	54.000	AVERAGE
4	2483.500	26.940	10.326	37.266	-16.734	54.000	AVERAGE
5	2500.000	26.989	10.202	37.190	-16.810	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 : CB1	Time : 2014/08/07 - 16:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch11

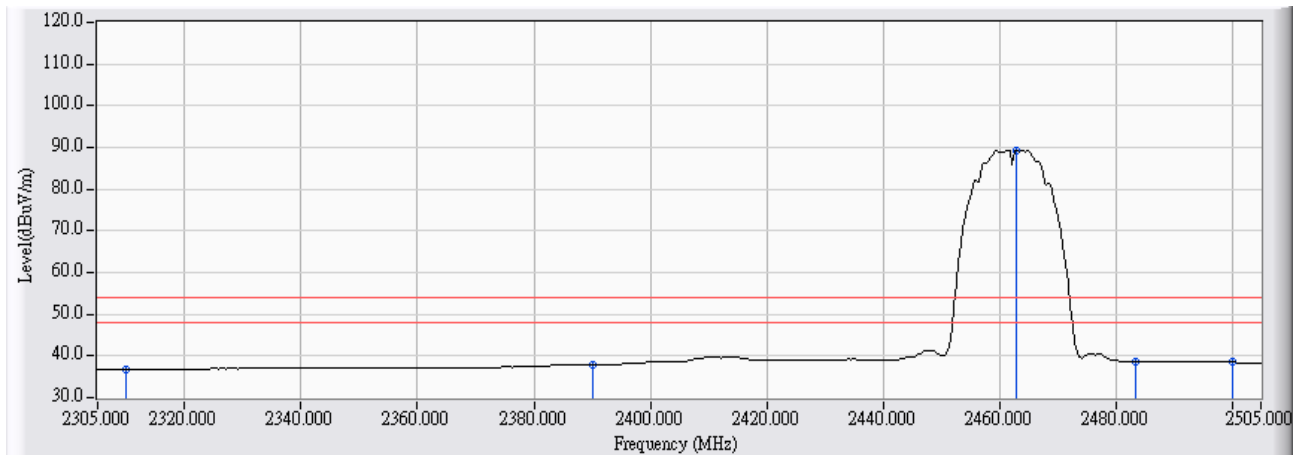


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	21.975	48.422	-25.578	74.000	PEAK
2		2387.800	26.668	24.590	51.258	-22.742	74.000	PEAK
3		2390.000	26.674	22.619	49.293	-24.707	74.000	PEAK
4	*	2463.400	26.883	67.111	93.994	19.994	74.000	PEAK
5		2483.500	26.940	23.199	50.139	-23.861	74.000	PEAK
6		2495.400	26.973	25.074	52.048	-21.952	74.000	PEAK
7		2500.000	26.989	22.956	49.944	-24.056	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 : CB1	Time : 2014/08/07 - 16:41
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch11

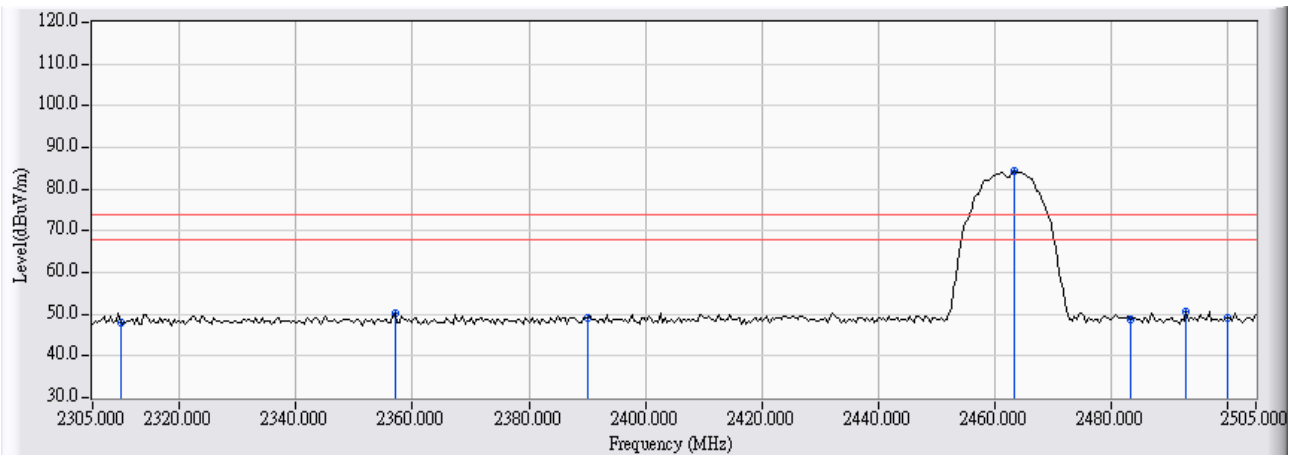


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.418	36.865	-17.135	54.000	AVERAGE
2	2390.000	26.674	11.255	37.929	-16.071	54.000	AVERAGE
3	* 2463.000	26.882	62.548	89.430	35.430	54.000	AVERAGE
4	2483.500	26.940	11.671	38.611	-15.389	54.000	AVERAGE
5	2500.000	26.989	11.492	38.480	-15.520	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 : CB1	Time : 2014/08/07 - 16:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch11

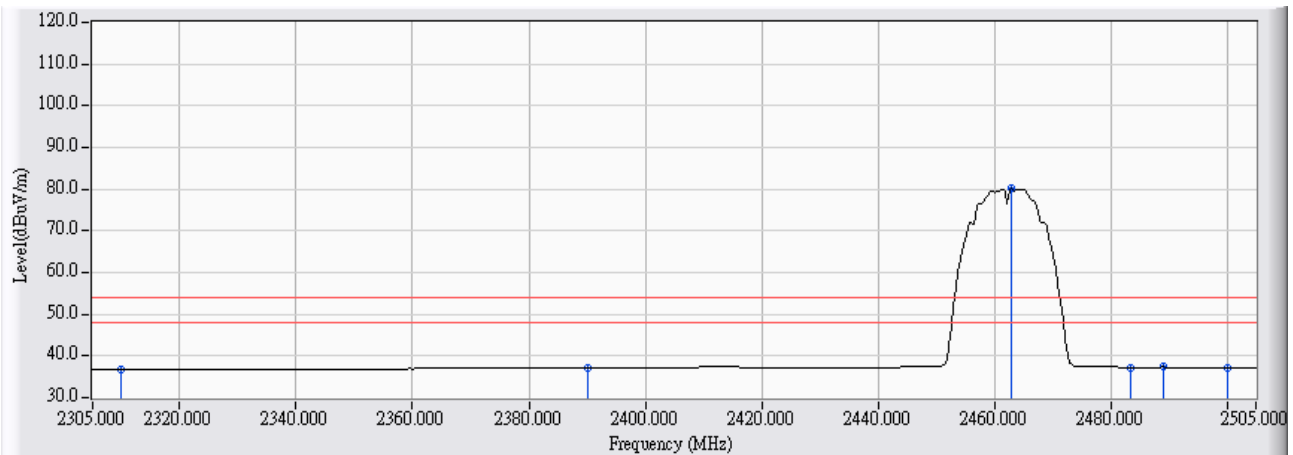


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	21.467	47.914	-26.086	74.000	PEAK
2		2357.000	26.580	23.691	50.272	-23.728	74.000	PEAK
3		2390.000	26.674	22.539	49.213	-24.787	74.000	PEAK
4	*	2463.400	26.883	57.324	84.207	10.207	74.000	PEAK
5		2483.500	26.940	21.814	48.754	-25.246	74.000	PEAK
6		2493.000	26.967	23.685	50.652	-23.348	74.000	PEAK
7		2500.000	26.989	22.256	49.244	-24.756	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 : CB1	Time : 2014/08/07 - 16:13
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11b_ch11

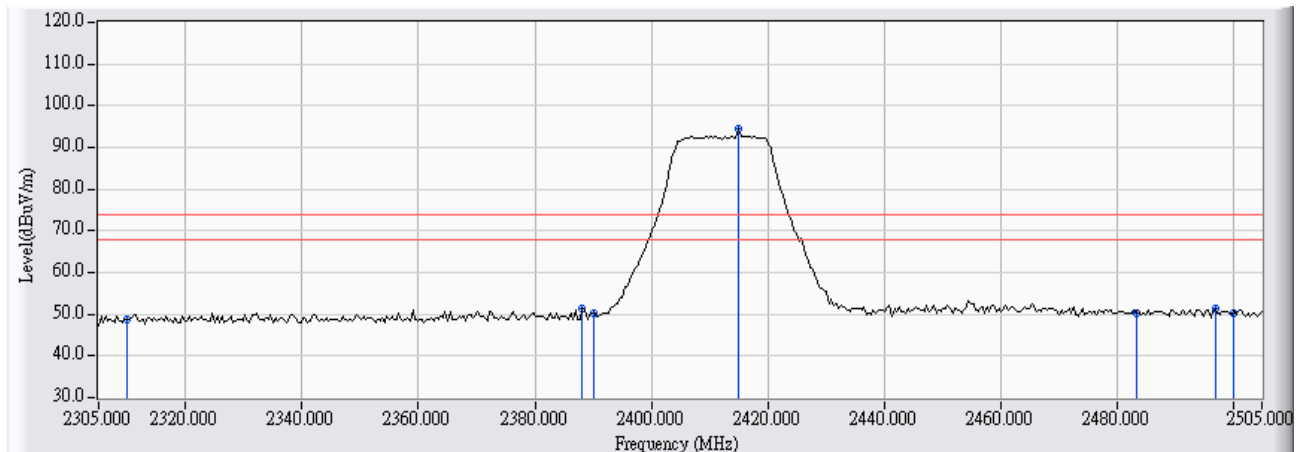


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.294	36.741	-17.259	54.000	AVERAGE
2	2390.000	26.674	10.418	37.092	-16.908	54.000	AVERAGE
3	* 2463.000	26.882	53.191	80.073	26.073	54.000	AVERAGE
4	2483.500	26.940	10.359	37.299	-16.701	54.000	AVERAGE
5	2489.000	26.956	10.371	37.327	-16.673	54.000	AVERAGE
6	2500.000	26.989	10.266	37.254	-16.746	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 : CB1	Time : 2014/08/07 - 16:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch1

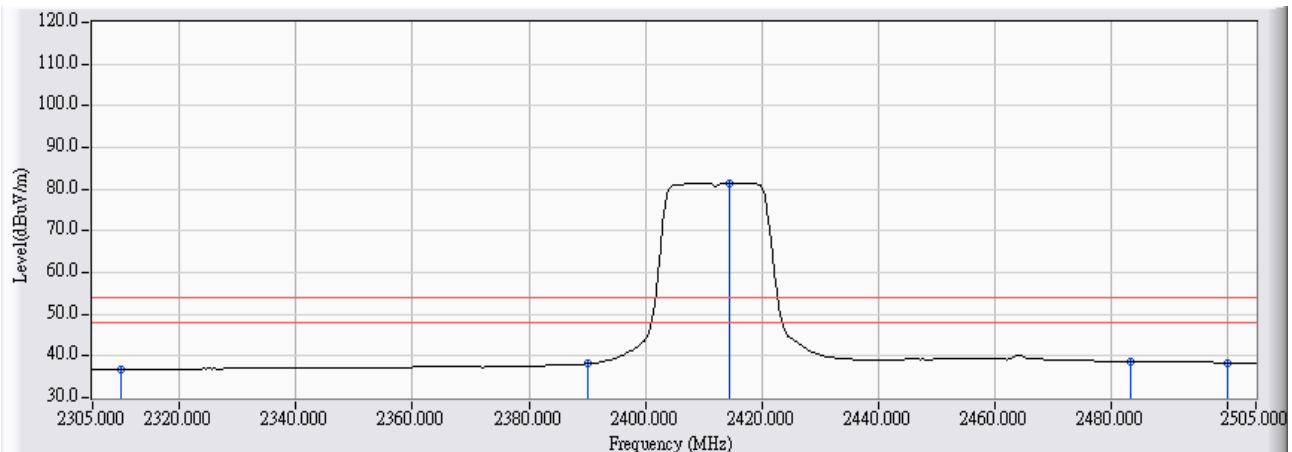


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.284	48.731	-25.269	74.000	PEAK
2		2388.200	26.669	24.679	51.348	-22.652	74.000	PEAK
3		2390.000	26.674	23.598	50.272	-23.728	74.000	PEAK
4	*	2415.000	26.745	67.716	94.461	20.461	74.000	PEAK
5		2483.500	26.940	23.491	50.431	-23.569	74.000	PEAK
6		2497.000	26.979	24.234	51.213	-22.787	74.000	PEAK
7		2500.000	26.989	23.388	50.376	-23.624	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 : CB1	Time : 2014/08/07 - 16:31
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch1

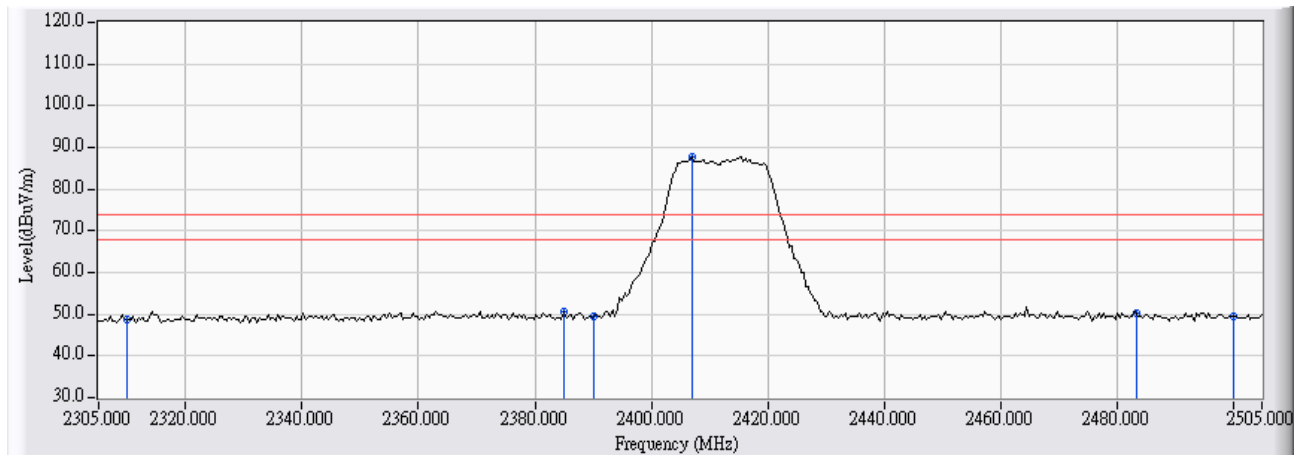


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.418	36.865	-17.135	54.000	AVERAGE
2	2390.000	26.674	11.422	38.096	-15.904	54.000	AVERAGE
3	* 2414.600	26.745	54.760	81.504	27.504	54.000	AVERAGE
4	2483.500	26.940	11.578	38.518	-15.482	54.000	AVERAGE
5	2500.000	26.989	11.396	38.384	-15.616	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 : CB1	Time : 2014/08/07 - 17:19
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch1

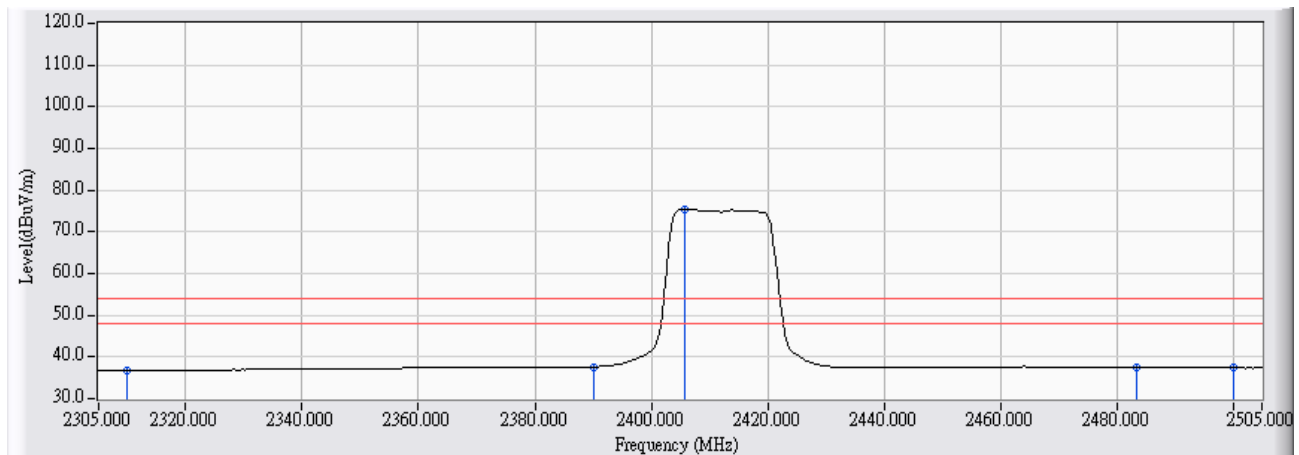


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.201	48.648	-25.352	74.000	PEAK
2		2385.000	26.660	24.015	50.675	-23.325	74.000	PEAK
3		2390.000	26.674	22.703	49.377	-24.623	74.000	PEAK
4	*	2407.000	26.722	61.020	87.743	13.743	74.000	PEAK
5		2483.500	26.940	23.213	50.153	-23.847	74.000	PEAK
6		2500.000	26.989	22.549	49.537	-24.463	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.

Engineer :	
Site : CB1	Time : 2014/08/07 - 17:22
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch1

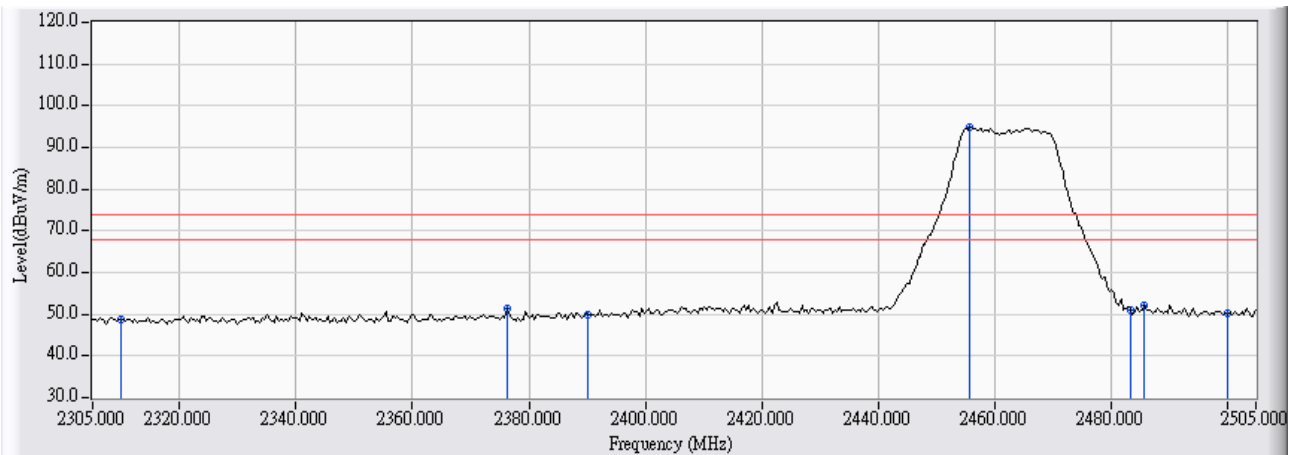


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	10.390	36.837	-17.163	54.000	AVERAGE
2		2390.000	26.674	10.909	37.583	-16.417	54.000	AVERAGE
3	*	2405.800	26.720	48.634	75.353	21.353	54.000	AVERAGE
4		2483.500	26.940	10.507	37.447	-16.553	54.000	AVERAGE
5		2500.000	26.989	10.365	37.353	-16.647	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 : CB1	Time : 2014/08/07 - 16:26
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch11

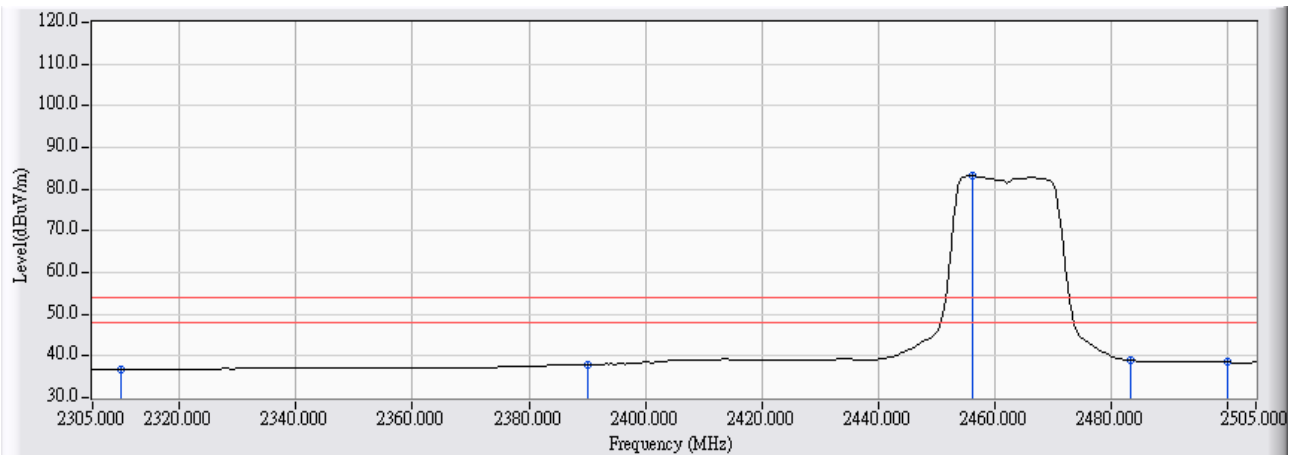


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.205	48.652	-25.348	74.000	PEAK
2		2376.200	26.635	24.627	51.262	-22.738	74.000	PEAK
3		2390.000	26.674	23.319	49.993	-24.007	74.000	PEAK
4	*	2455.800	26.862	67.975	94.836	20.836	74.000	PEAK
5		2483.500	26.940	23.940	50.880	-23.120	74.000	PEAK
6		2485.800	26.947	25.107	52.053	-21.947	74.000	PEAK
7		2500.000	26.989	23.091	50.079	-23.921	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 : CB1	Time : 2014/08/07 - 16:28
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch11

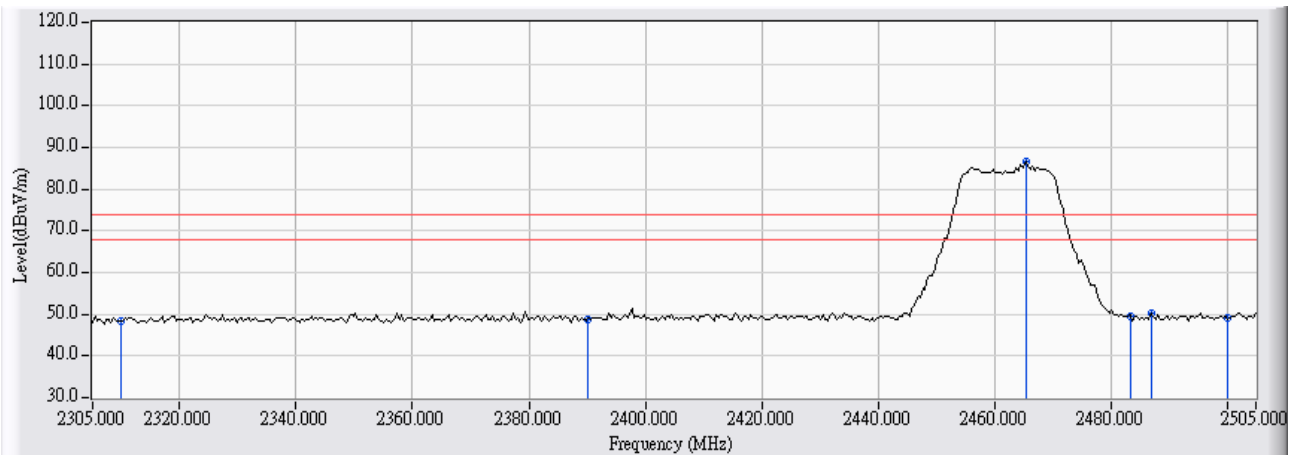


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.406	36.853	-17.147	54.000	AVERAGE
2	2390.000	26.674	11.259	37.933	-16.067	54.000	AVERAGE
3	* 2456.200	26.863	56.305	83.167	29.167	54.000	AVERAGE
4	2483.500	26.940	11.974	38.914	-15.086	54.000	AVERAGE
5	2500.000	26.989	11.485	38.473	-15.527	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 : CB1	Time : 2014/08/07 - 16:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch11

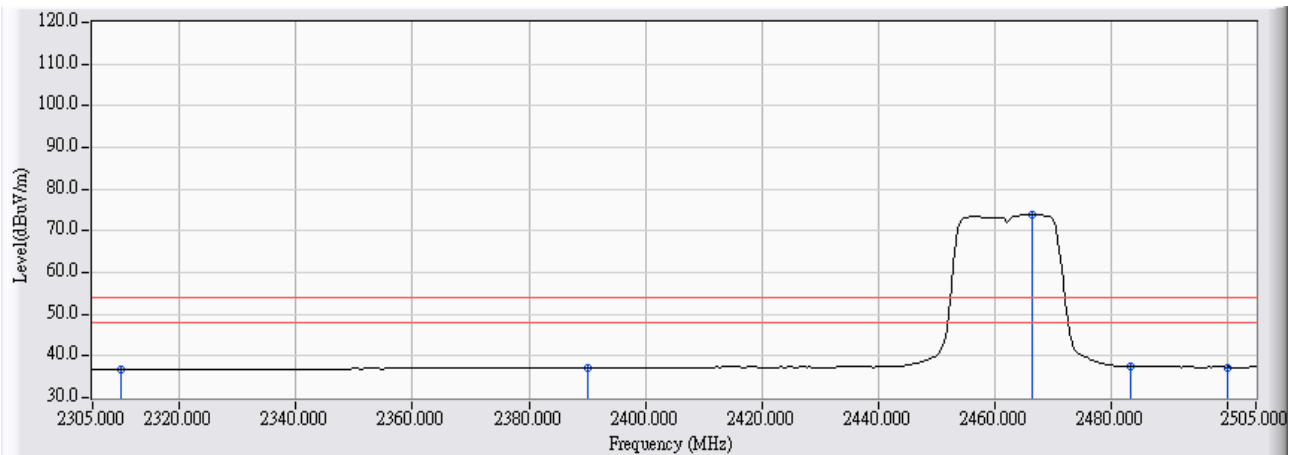


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	21.927	48.374	-25.626	74.000	PEAK
2		2390.000	26.674	21.969	48.643	-25.357	74.000	PEAK
3	*	2465.400	26.888	59.631	86.520	12.520	74.000	PEAK
4		2483.500	26.940	22.690	49.630	-24.370	74.000	PEAK
5		2487.000	26.949	23.243	50.193	-23.807	74.000	PEAK
6		2500.000	26.989	22.117	49.105	-24.895	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 : CB1	Time : 2014/08/07 - 16:20
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11g_ch11

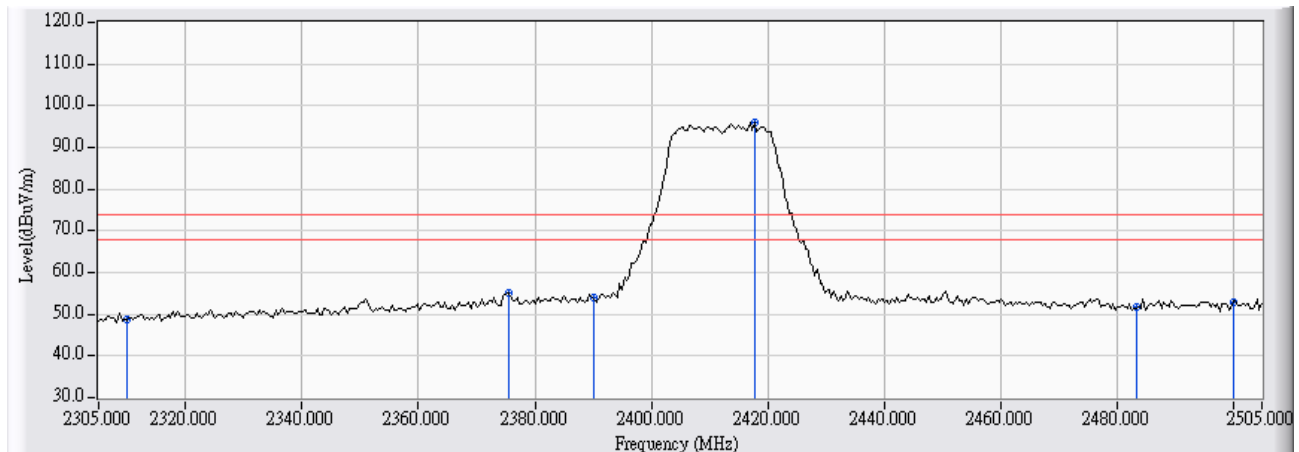


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	26.447	10.341	36.788	-17.212	54.000	AVERAGE
2	2390.000	26.674	10.509	37.183	-16.817	54.000	AVERAGE
3	* 2466.600	26.892	47.031	73.923	19.923	54.000	AVERAGE
4	2483.500	26.940	10.506	37.446	-16.554	54.000	AVERAGE
5	2500.000	26.989	10.320	37.308	-16.692	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 : CB1	Time : 2014/08/04 - 17:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch1

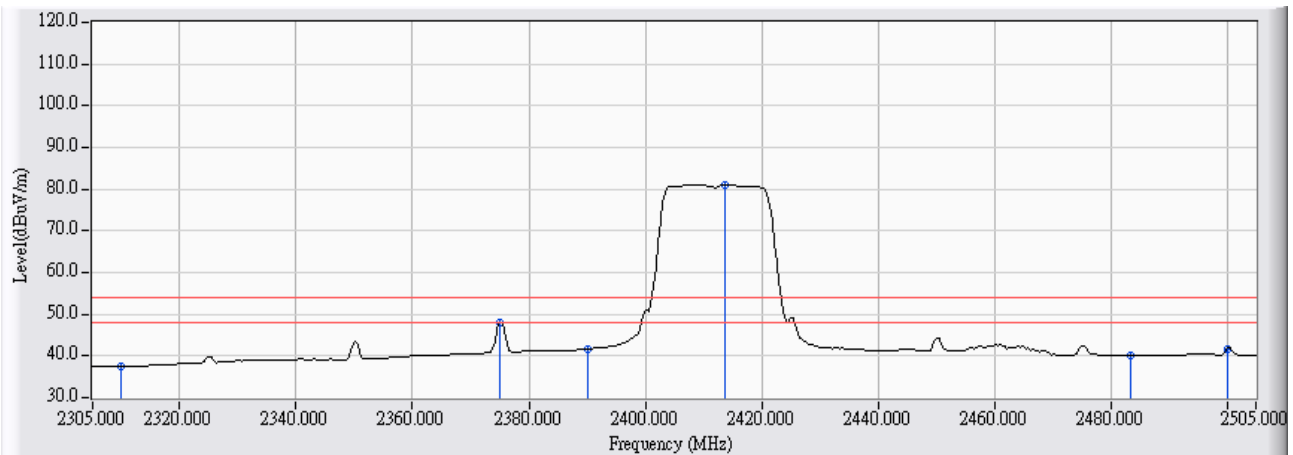


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.210	48.657	-25.343	74.000	PEAK
2		2375.400	26.633	28.393	55.026	-18.974	74.000	PEAK
3		2390.000	26.674	27.201	53.875	-20.125	74.000	PEAK
4	*	2417.800	26.753	69.182	95.935	21.935	74.000	PEAK
5		2483.500	26.940	24.675	51.615	-22.385	74.000	PEAK
6		2500.000	26.989	25.764	52.752	-21.248	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 : CB1	Time : 2014/08/04 - 18:26
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch1

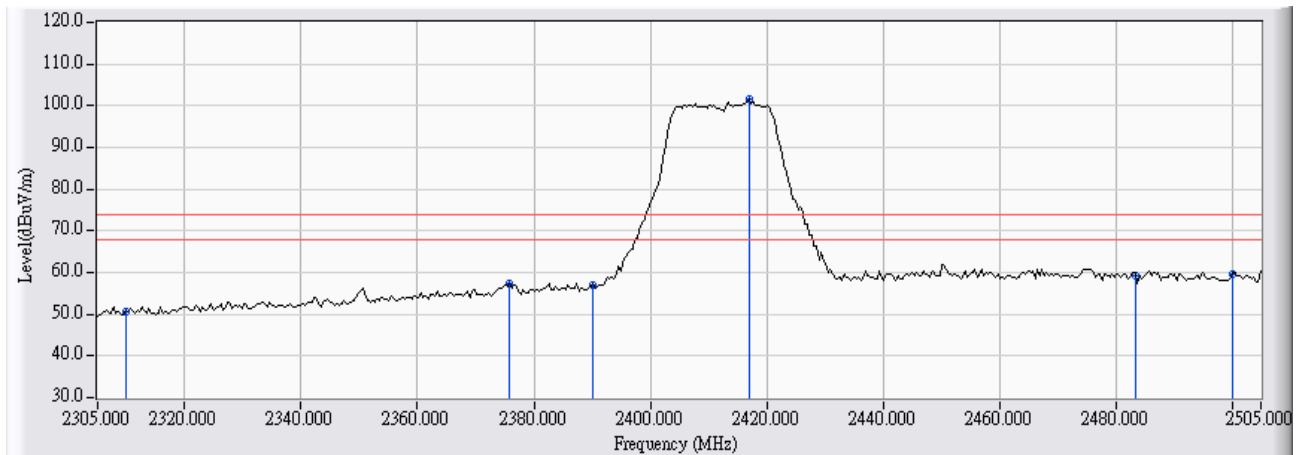


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	11.086	37.533	-16.467	54.000	AVERAGE
2		2375.000	26.632	21.433	48.065	-5.935	54.000	AVERAGE
3		2390.000	26.674	14.963	41.637	-12.363	54.000	AVERAGE
4	*	2413.800	26.742	54.274	81.016	27.016	54.000	AVERAGE
5		2483.500	26.940	13.098	40.038	-13.962	54.000	AVERAGE
6		2500.000	26.989	14.680	41.668	-12.332	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 : CB1	Time : 2014/08/04 - 16:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch1

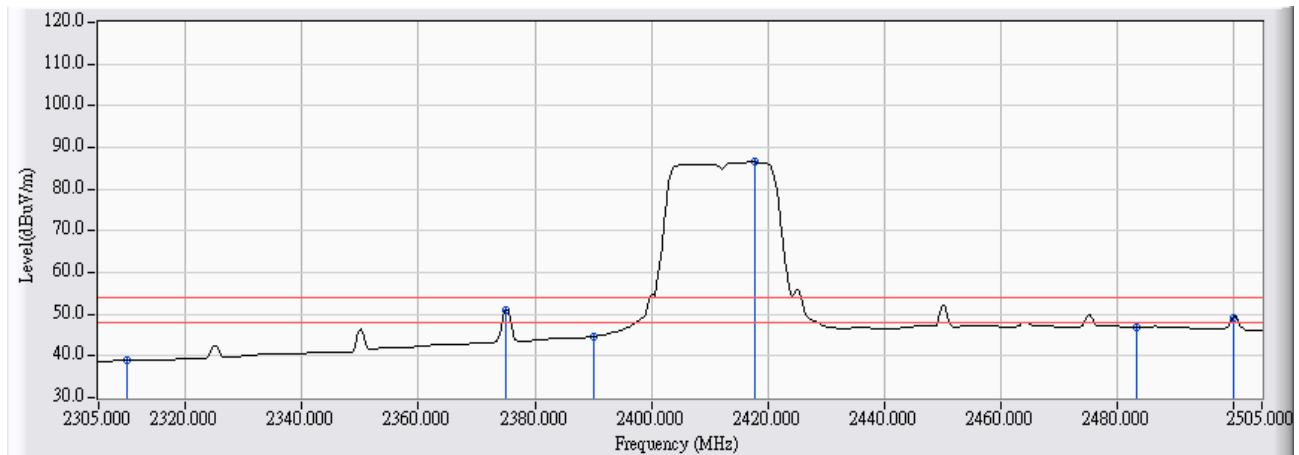


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	24.278	50.725	-23.275	74.000	PEAK
2		2375.800	26.635	30.812	57.446	-16.554	74.000	PEAK
3		2390.000	26.674	30.293	56.967	-17.033	74.000	PEAK
4	*	2417.000	26.751	74.931	101.682	27.682	74.000	PEAK
5		2483.500	26.940	32.405	59.345	-14.655	74.000	PEAK
6		2500.000	26.989	32.466	59.454	-14.546	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 : CB1	Time : 2014/08/04 - 16:33
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch1

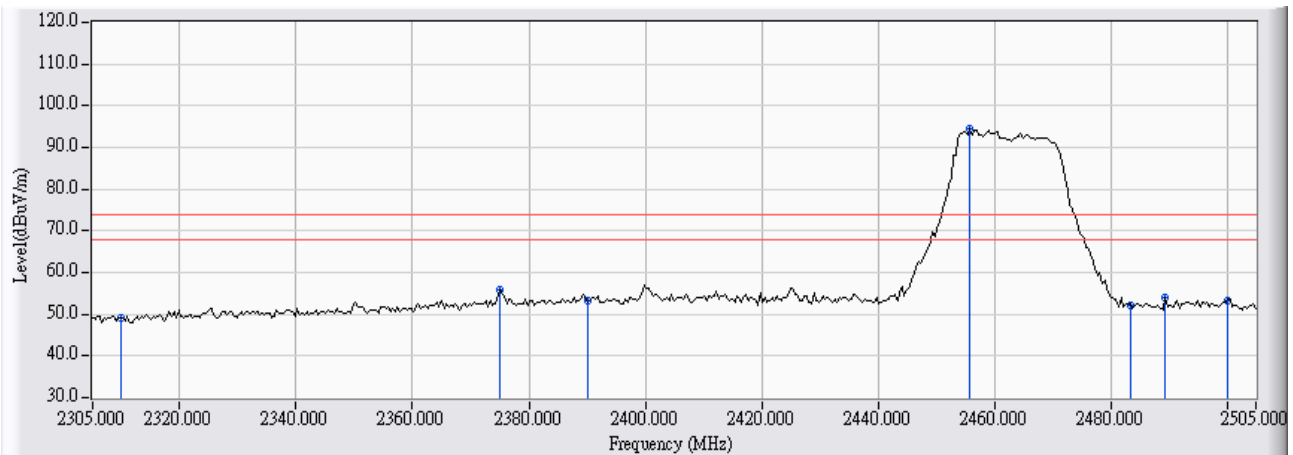


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	12.559	39.006	-14.994	54.000	AVERAGE
2		2375.000	26.632	24.300	50.932	-3.068	54.000	AVERAGE
3		2390.000	26.674	17.980	44.654	-9.346	54.000	AVERAGE
4	*	2417.800	26.753	59.722	86.475	32.475	54.000	AVERAGE
5		2483.500	26.940	20.010	46.950	-7.050	54.000	AVERAGE
6		2500.000	26.989	22.063	49.051	-4.949	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 : CB1	Time : 2014/08/04 - 17:52
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch11

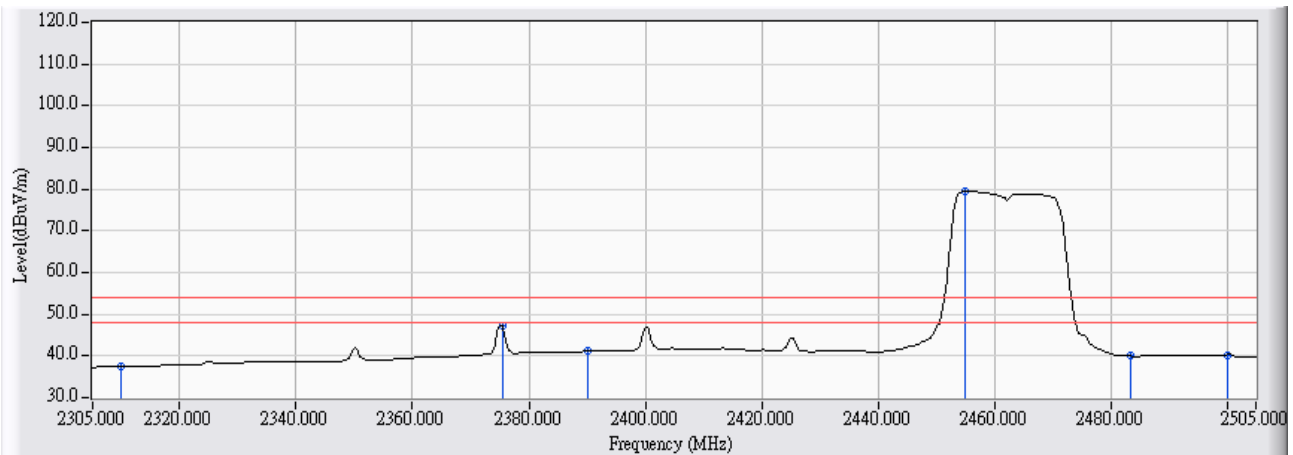


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.711	49.158	-24.842	74.000	PEAK
2		2375.000	26.632	29.063	55.695	-18.305	74.000	PEAK
3		2390.000	26.674	26.451	53.125	-20.875	74.000	PEAK
4	*	2455.800	26.862	67.588	94.449	20.449	74.000	PEAK
5		2483.500	26.940	25.277	52.217	-21.783	74.000	PEAK
6		2489.400	26.957	27.196	54.153	-19.847	74.000	PEAK
7		2500.000	26.989	26.286	53.274	-20.726	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 : CB1	Time : 2014/08/04 - 17:55
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch11

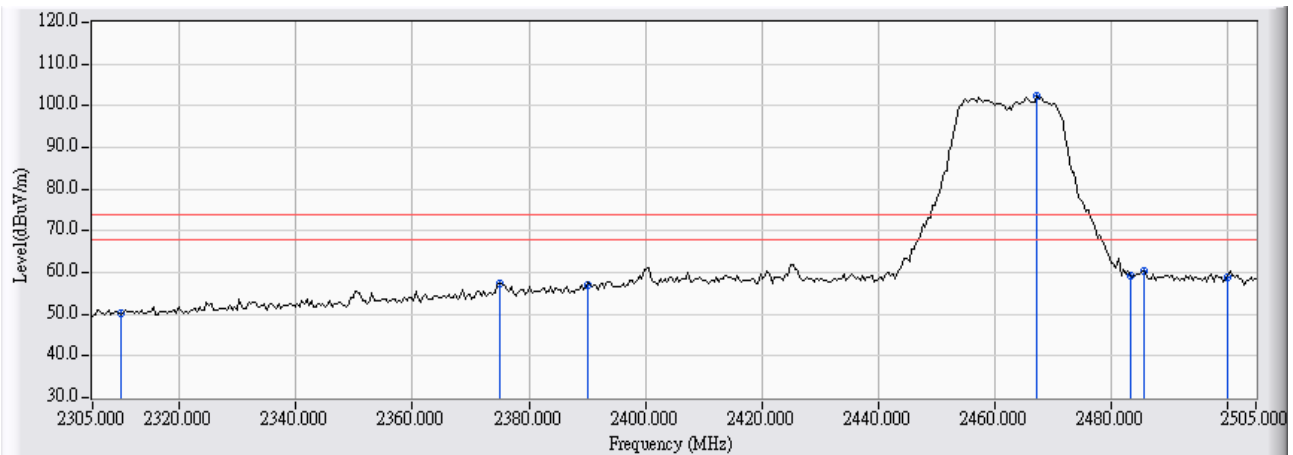


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	11.002	37.449	-16.551	54.000	AVERAGE
2		2375.400	26.633	20.459	47.092	-6.908	54.000	AVERAGE
3		2390.000	26.674	14.488	41.162	-12.838	54.000	AVERAGE
4	*	2455.000	26.859	52.729	79.588	25.588	54.000	AVERAGE
5		2483.500	26.940	13.003	39.943	-14.057	54.000	AVERAGE
6		2500.000	26.989	13.251	40.239	-13.761	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 : CB1	Time : 2014/08/04 - 16:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch11

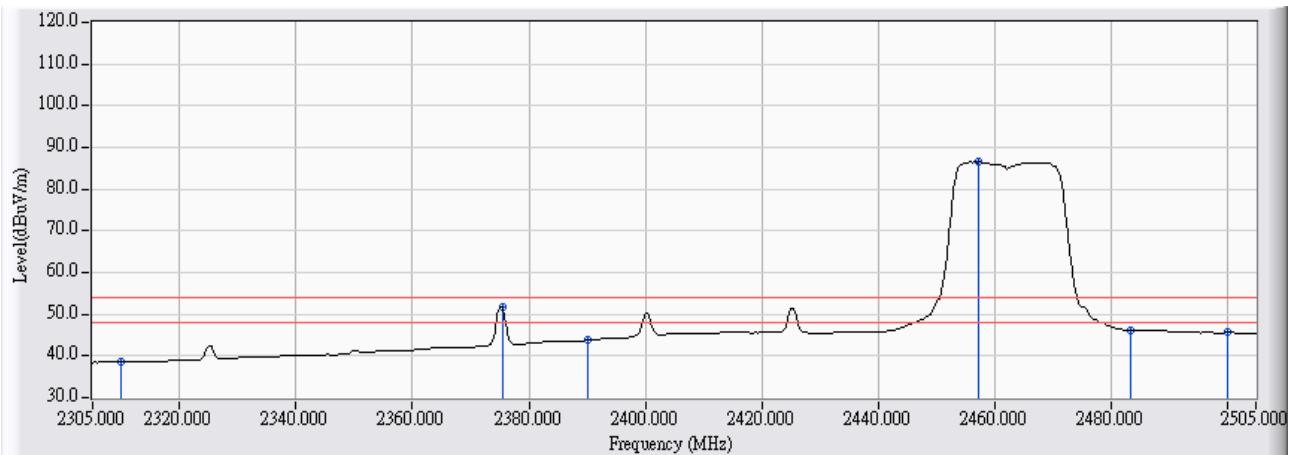


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	23.761	50.208	-23.792	74.000	PEAK
2		2375.000	26.632	30.838	57.470	-16.530	74.000	PEAK
3		2390.000	26.674	30.425	57.099	-16.901	74.000	PEAK
4	*	2467.400	26.895	75.380	102.274	28.274	74.000	PEAK
5		2483.500	26.940	32.258	59.198	-14.802	74.000	PEAK
6		2485.800	26.947	33.490	60.436	-13.564	74.000	PEAK
7		2500.000	26.989	31.837	58.825	-15.175	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 : CB1	Time : 2014/08/04 - 16:46
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n20M_ch11

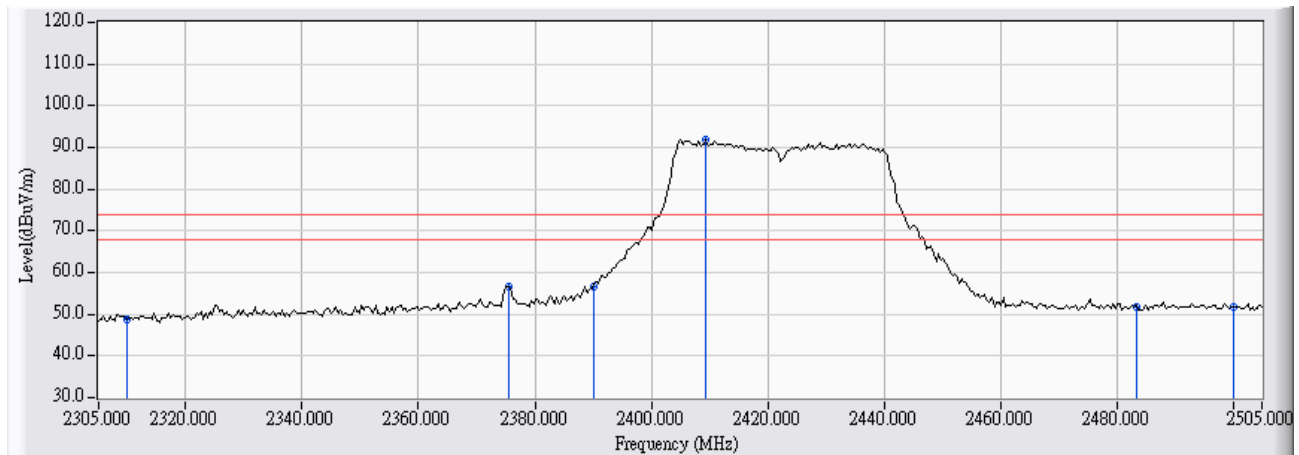


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	12.226	38.673	-15.327	54.000	AVERAGE
2		2375.400	26.633	25.023	51.656	-2.344	54.000	AVERAGE
3		2390.000	26.674	17.058	43.732	-10.268	54.000	AVERAGE
4	*	2457.400	26.866	59.590	86.456	32.456	54.000	AVERAGE
5		2483.500	26.940	19.220	46.160	-7.840	54.000	AVERAGE
6		2500.000	26.989	18.768	45.756	-8.244	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 : CB1	Time : 2014/08/04 - 17:24
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch11

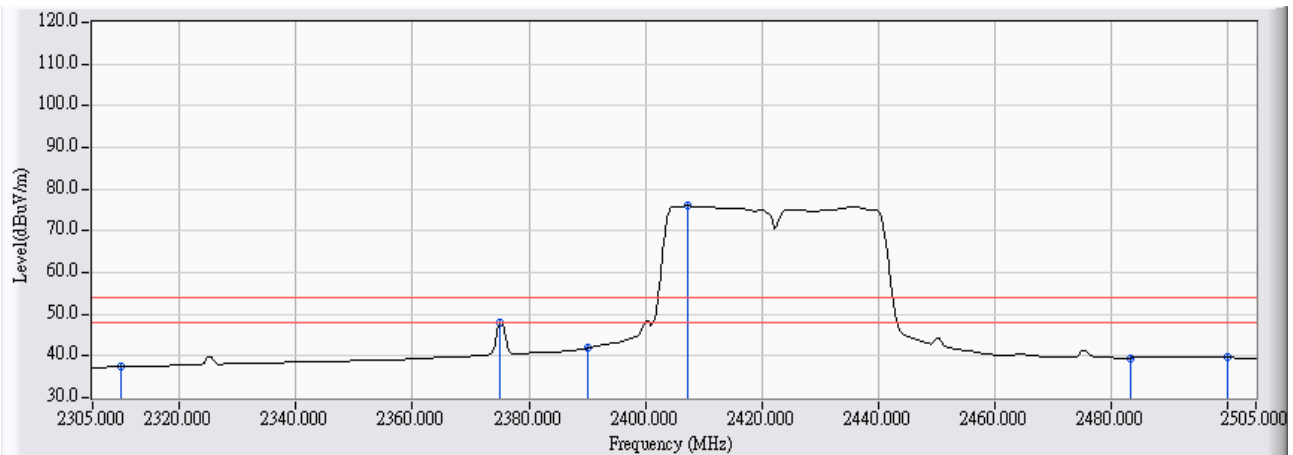


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.475	48.922	-25.078	74.000	PEAK
2		2375.400	26.633	30.172	56.805	-17.195	74.000	PEAK
3		2390.000	26.674	30.056	56.730	-17.270	74.000	PEAK
4	*	2409.400	26.729	65.046	91.776	17.776	74.000	PEAK
5		2483.500	26.940	24.910	51.850	-22.150	74.000	PEAK
6		2500.000	26.989	24.787	51.775	-22.225	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 : CB1	Time : 2014/08/04 - 17:22
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch3

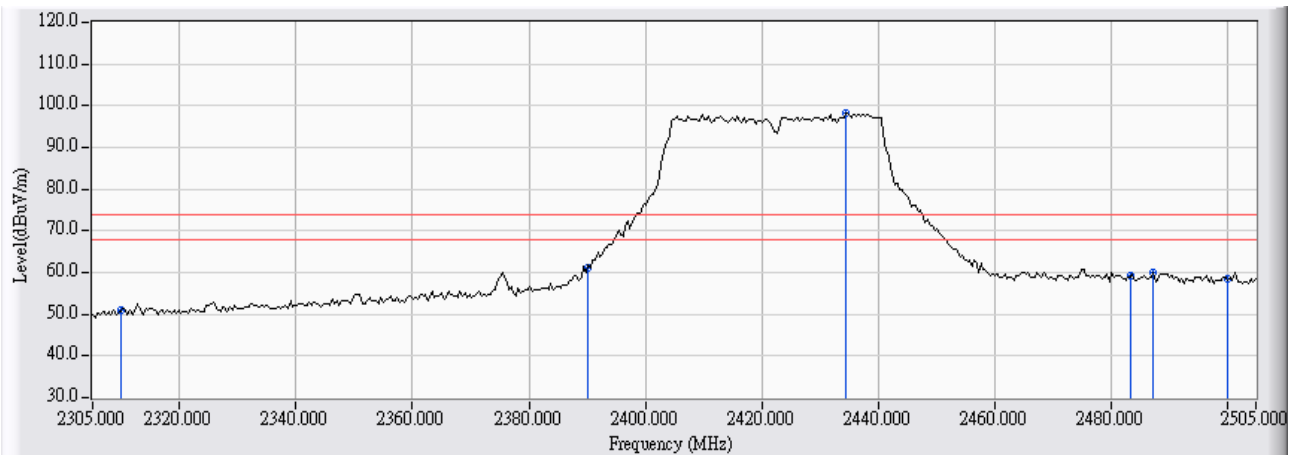


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	10.899	37.346	-16.654	54.000	AVERAGE
2		2375.000	26.632	21.307	47.939	-6.061	54.000	AVERAGE
3		2390.000	26.674	15.177	41.851	-12.149	54.000	AVERAGE
4	*	2407.400	26.724	49.250	75.974	21.974	54.000	AVERAGE
5		2483.500	26.940	12.604	39.544	-14.456	54.000	AVERAGE
6		2500.000	26.989	12.735	39.723	-14.277	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 : CB1	Time : 2014/08/04 - 17:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch3

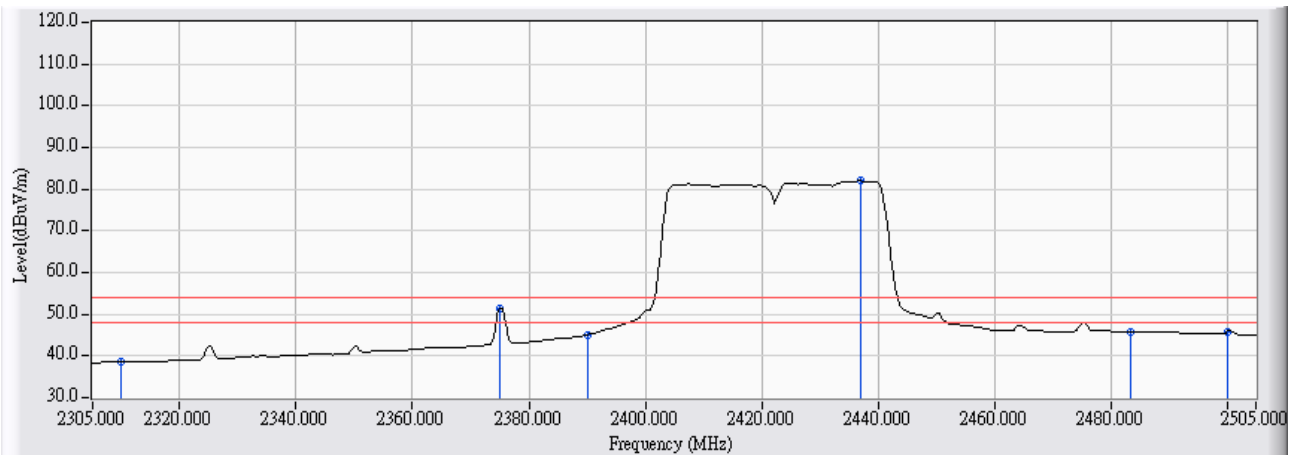


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	24.485	50.932	-23.068	74.000	PEAK
2		2390.000	26.674	34.301	60.975	-13.025	74.000	PEAK
3	*	2434.600	26.801	71.544	98.345	24.345	74.000	PEAK
4		2483.500	26.940	32.155	59.095	-14.905	74.000	PEAK
5		2487.400	26.951	33.159	60.110	-13.890	74.000	PEAK
6		2500.000	26.989	31.519	58.507	-15.493	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 : CB1	Time : 2014/08/04 - 17:13
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch3



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	12.227	38.674	-15.326	54.000	AVERAGE
2		2375.000	26.632	24.812	51.444	-2.556	54.000	AVERAGE
3		2390.000	26.674	18.378	45.052	-8.948	54.000	AVERAGE
4	*	2437.000	26.808	55.143	81.951	27.951	54.000	AVERAGE
5		2483.500	26.940	18.855	45.795	-8.205	54.000	AVERAGE
6		2500.000	26.989	18.762	45.750	-8.250	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 : CB1	Time : 2014/08/04 - 17:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch9

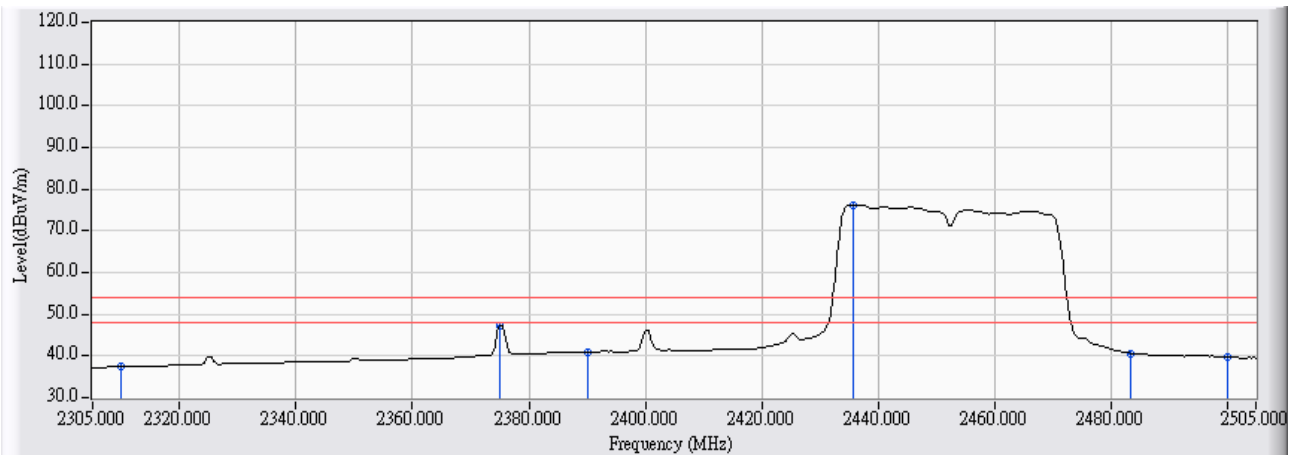


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	22.681	49.128	-24.872	74.000	PEAK
2		2375.000	26.632	29.468	56.100	-17.900	74.000	PEAK
3		2390.000	26.674	26.427	53.101	-20.899	74.000	PEAK
4	*	2435.800	26.805	65.460	92.265	18.265	74.000	PEAK
5		2483.500	26.940	29.301	56.241	-17.759	74.000	PEAK
6		2500.000	26.989	24.749	51.737	-22.263	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 : CB1	Time : 2014/08/04 - 17:34
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch9

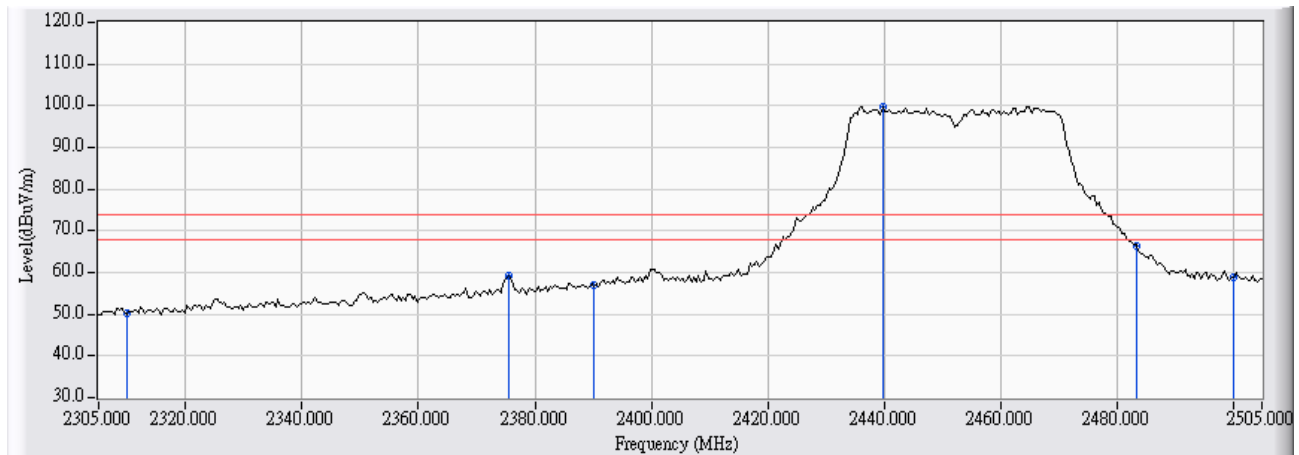


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	10.917	37.364	-16.636	54.000	AVERAGE
2		2375.000	26.632	20.736	47.368	-6.632	54.000	AVERAGE
3		2390.000	26.674	14.236	40.910	-13.090	54.000	AVERAGE
4	*	2435.800	26.805	49.488	76.293	22.293	54.000	AVERAGE
5		2483.500	26.940	13.695	40.635	-13.365	54.000	AVERAGE
6		2500.000	26.989	12.859	39.847	-14.153	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 : CB1	Time : 2014/08/04 - 17:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch9

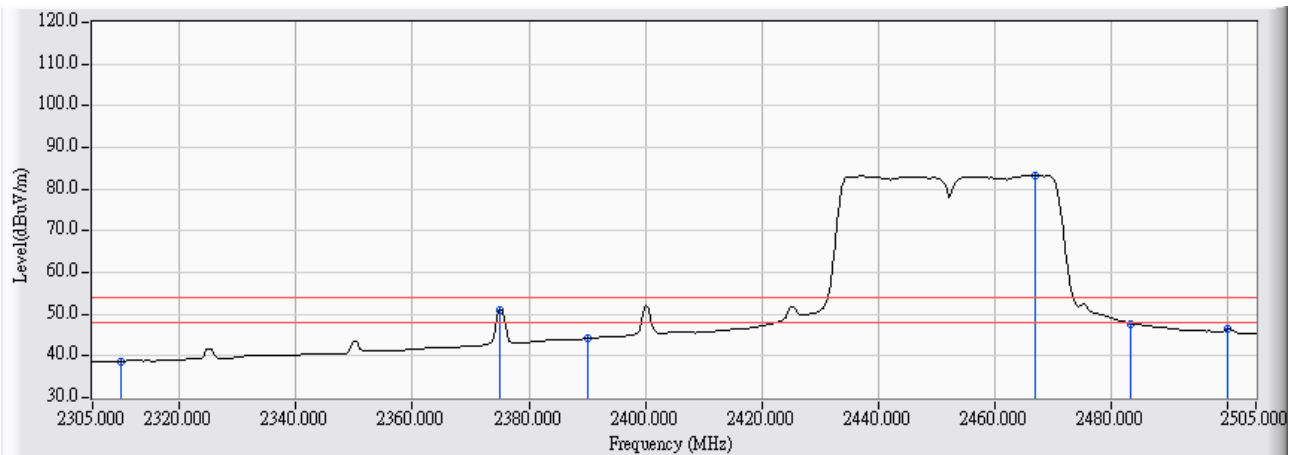


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	23.869	50.316	-23.684	74.000	PEAK
2		2375.400	26.633	32.693	59.326	-14.674	74.000	PEAK
3		2390.000	26.674	30.331	57.005	-16.995	74.000	PEAK
4	*	2439.800	26.815	72.869	99.685	25.685	74.000	PEAK
5		2483.500	26.940	39.501	66.441	-7.559	74.000	PEAK
6		2500.000	26.989	31.876	58.864	-15.136	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 : CB1	Time : 2014/08/04 - 16:58
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power :
EUT : Wireless Ceiling Access Point	Note : Mode 1: Transmit_802.11n40M_ch9



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	26.447	12.297	38.744	-15.256	54.000	AVERAGE
2		2375.000	26.632	24.256	50.888	-3.112	54.000	AVERAGE
3		2390.000	26.674	17.479	44.153	-9.847	54.000	AVERAGE
4	*	2467.000	26.893	56.466	83.359	29.359	54.000	AVERAGE
5		2483.500	26.940	20.864	47.804	-6.196	54.000	AVERAGE
6		2500.000	26.989	19.385	46.373	-7.627	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. Occupied Bandwidth

7.1. Test Equipment

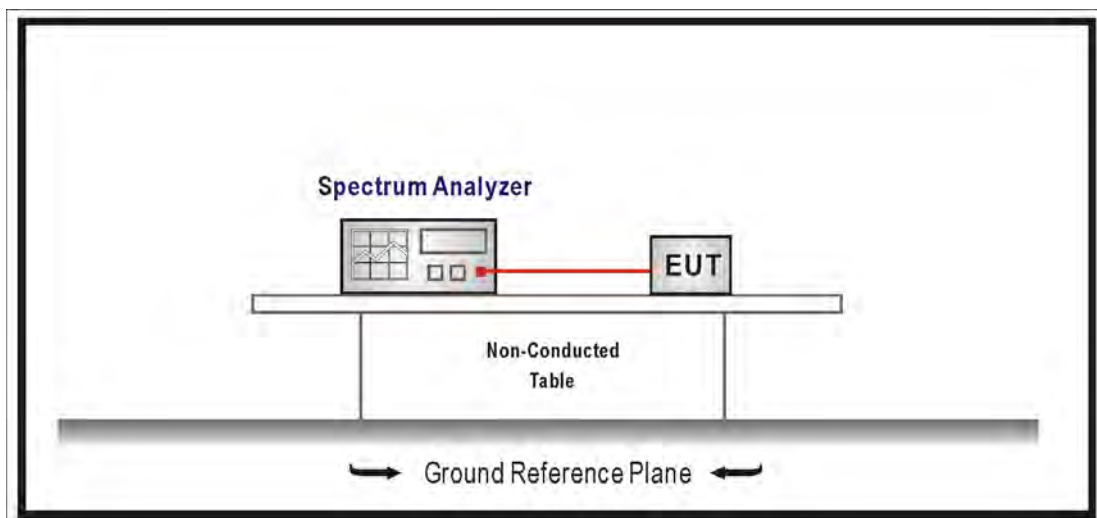
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure section 8.1 of KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, $VBW \geq 3 \times RBW$, Sweep time=Auto, Set Peak detector.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

7.6. Uncertainty

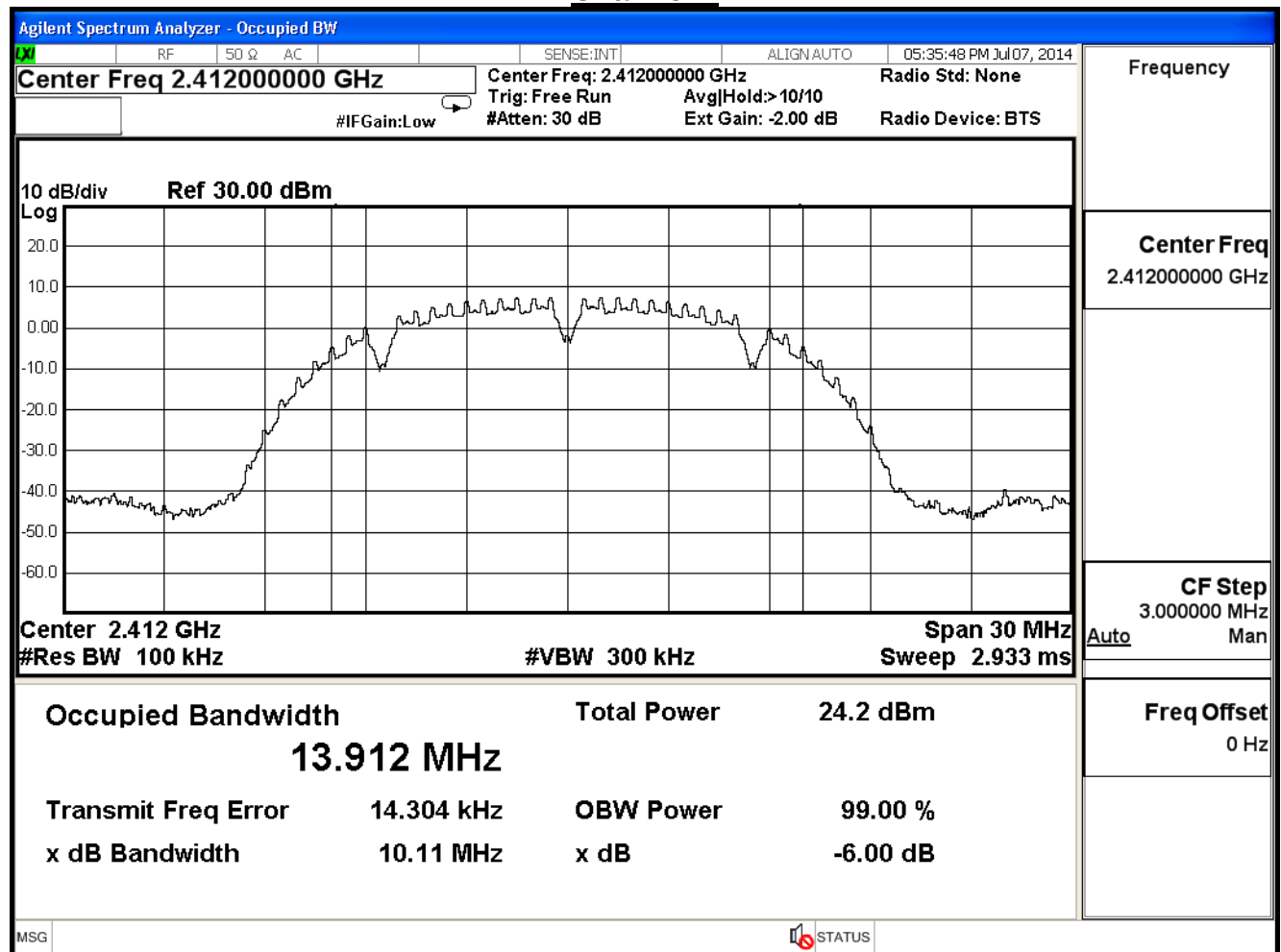
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

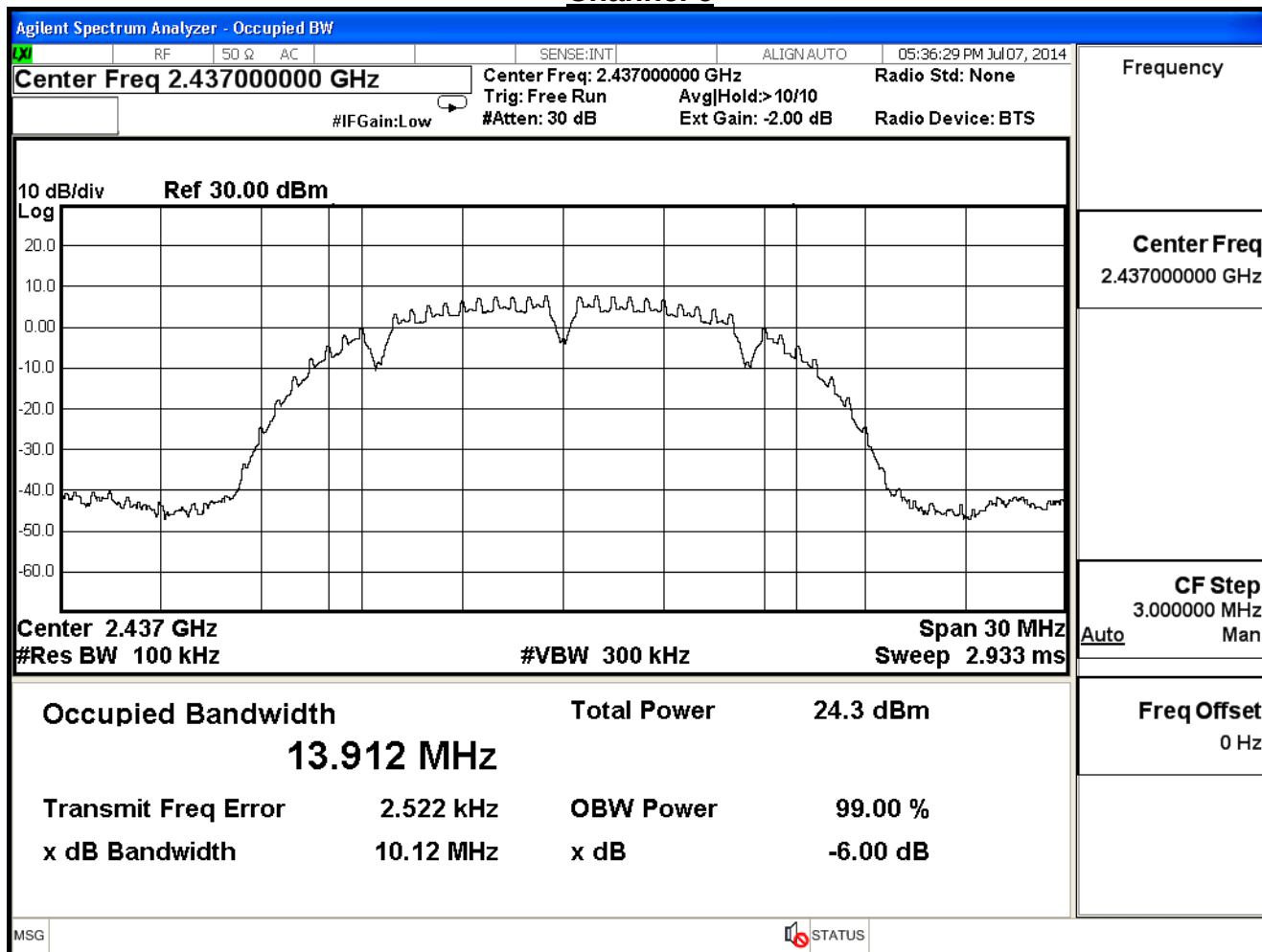
Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
1	2412	10.11	≥ 0.5	Pass
6	2437	10.12	≥ 0.5	Pass
11	2462	10.12	≥ 0.5	Pass

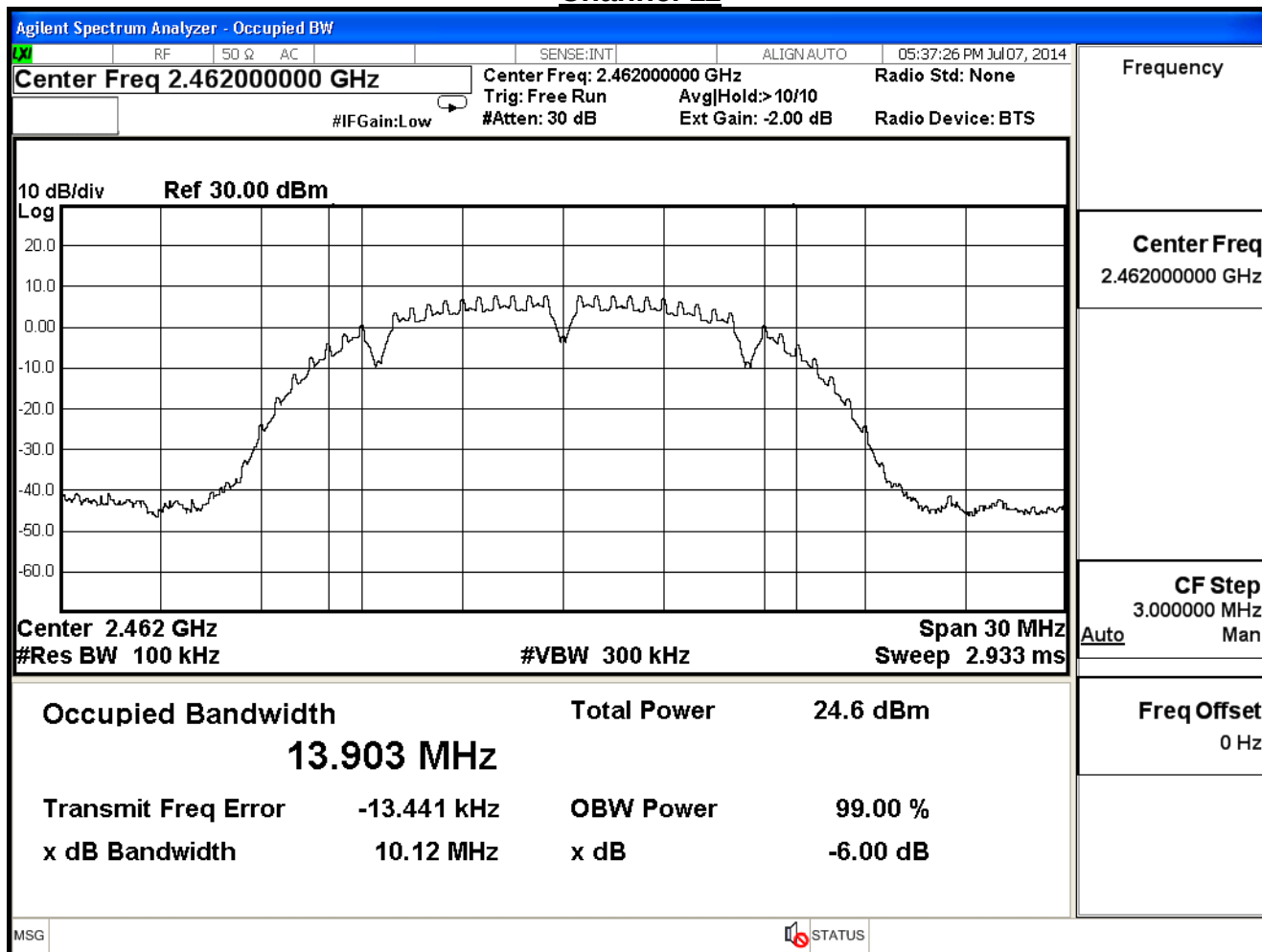
Channel 1



Channel 6



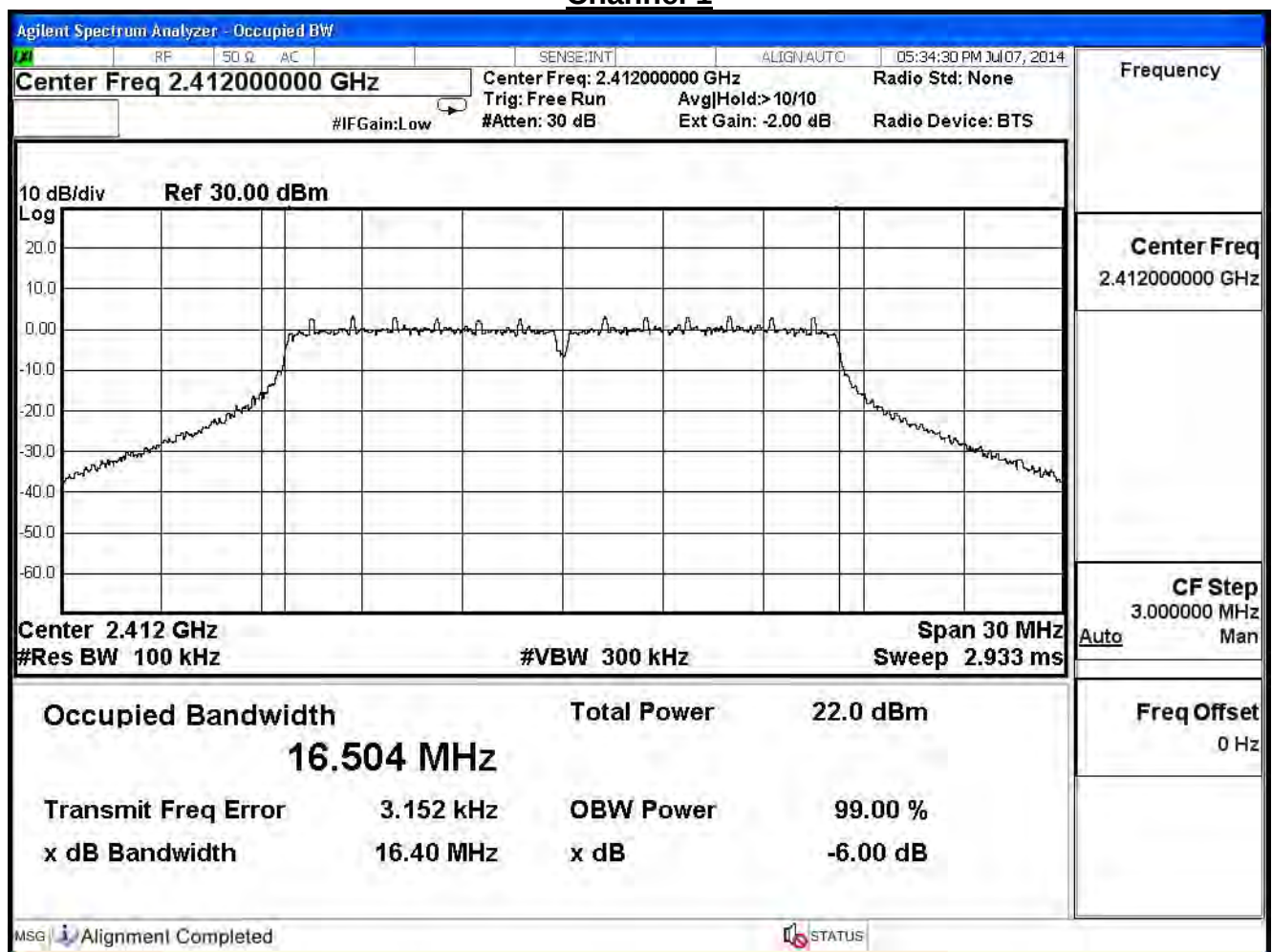
Channel 11



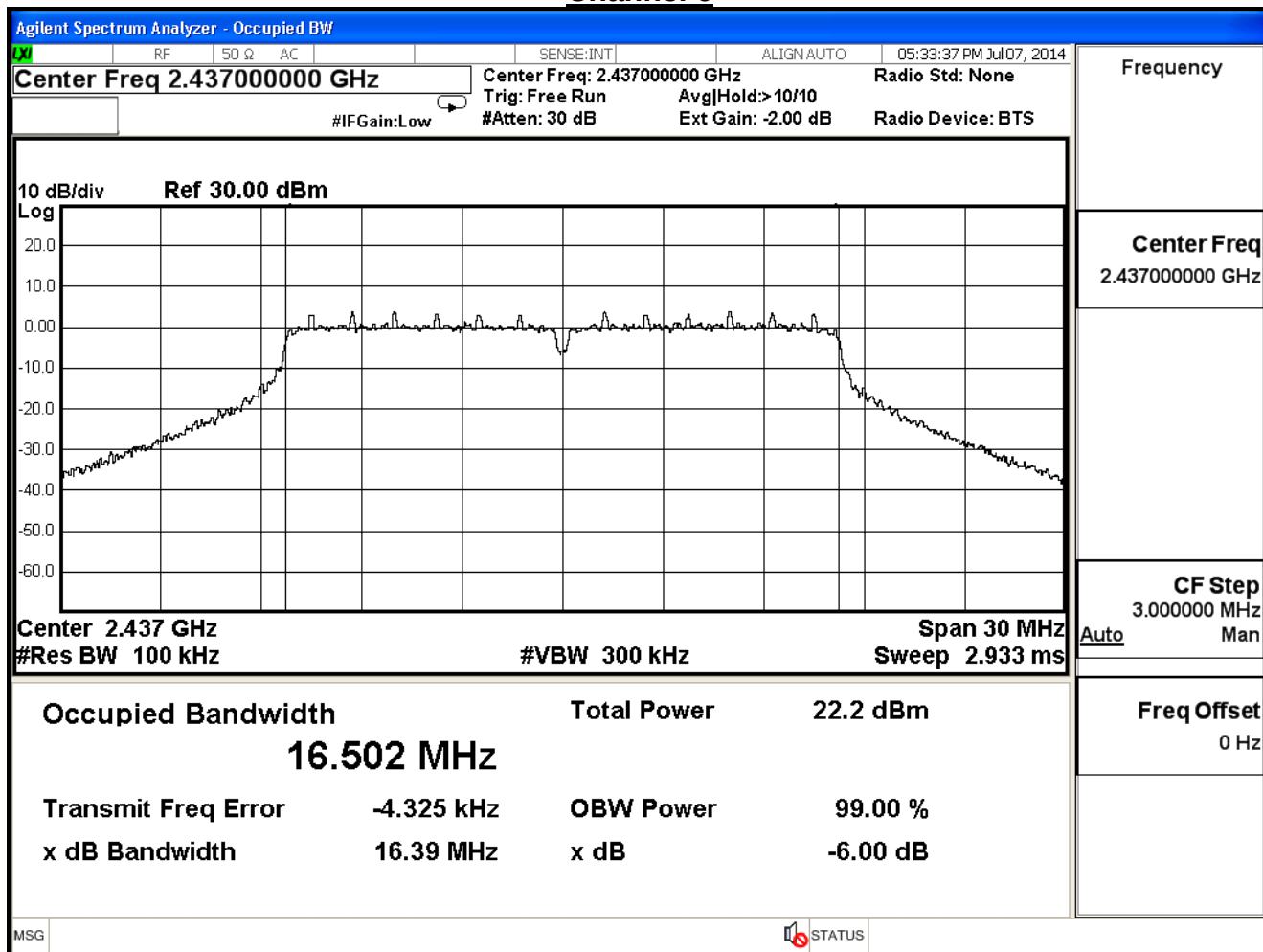
Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
1	2412	16.40	≥ 0.5	Pass
6	2437	16.39	≥ 0.5	Pass
11	2462	16.39	≥ 0.5	Pass

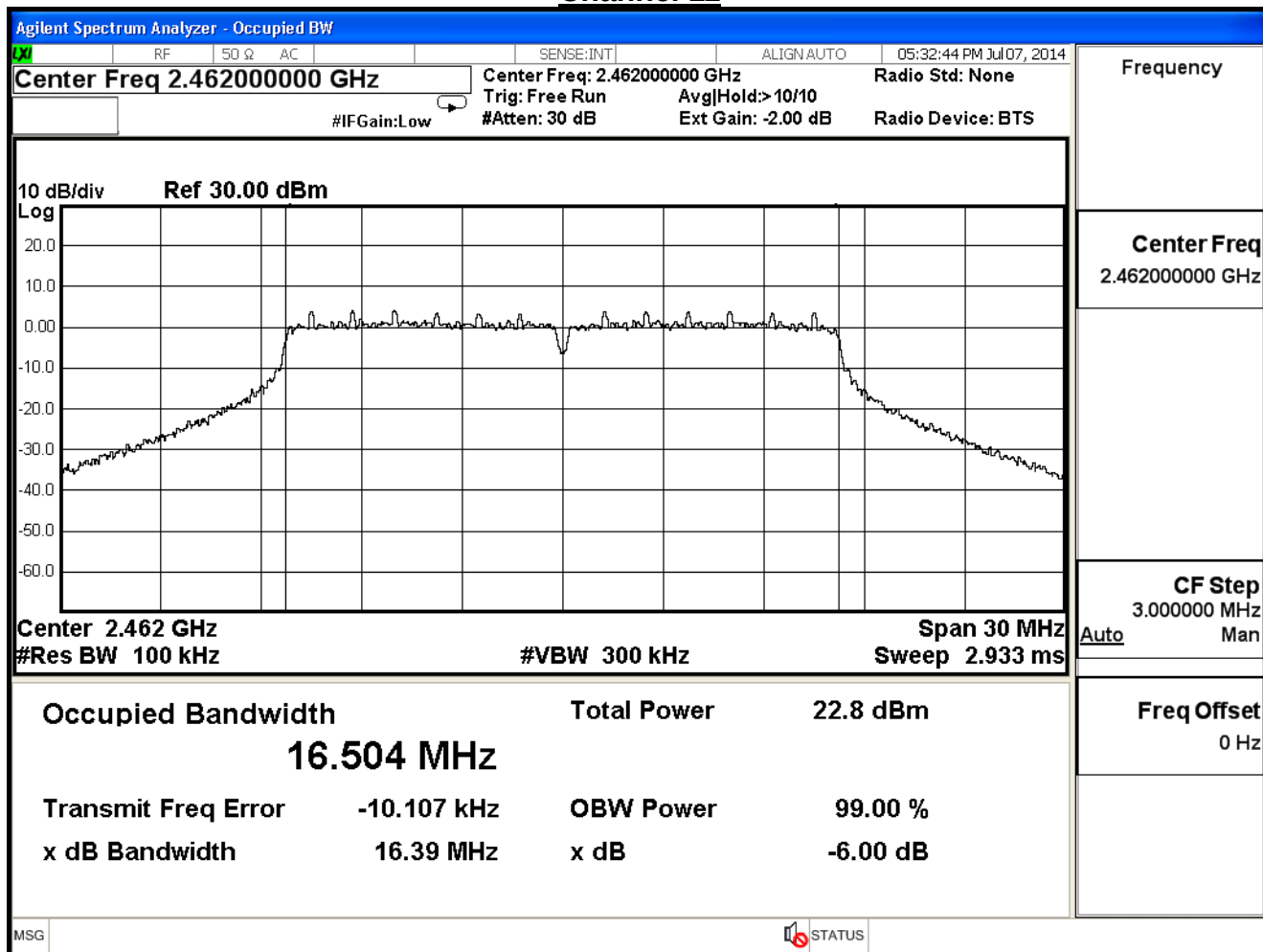
Channel 1



Channel 6



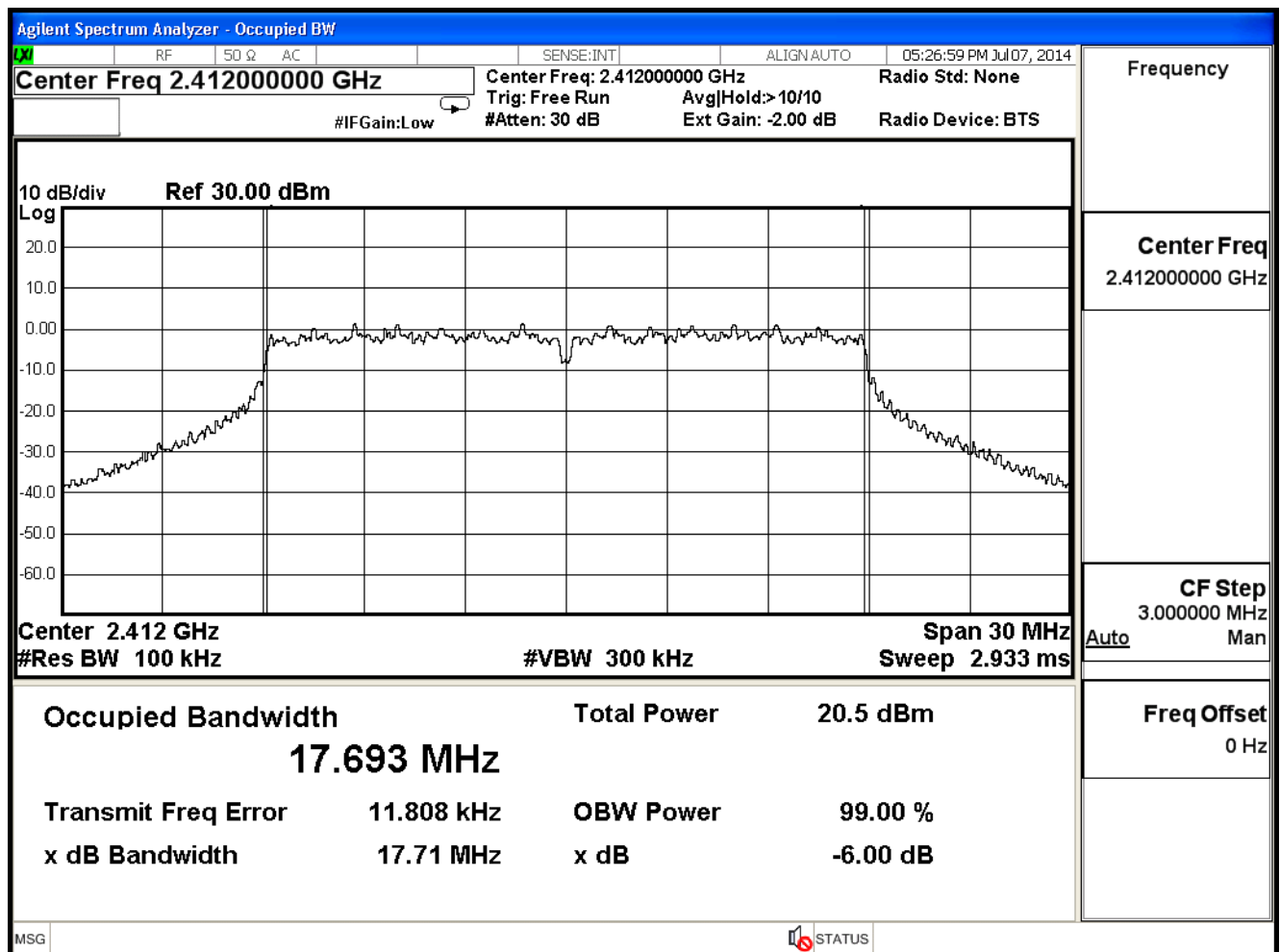
Channel 11



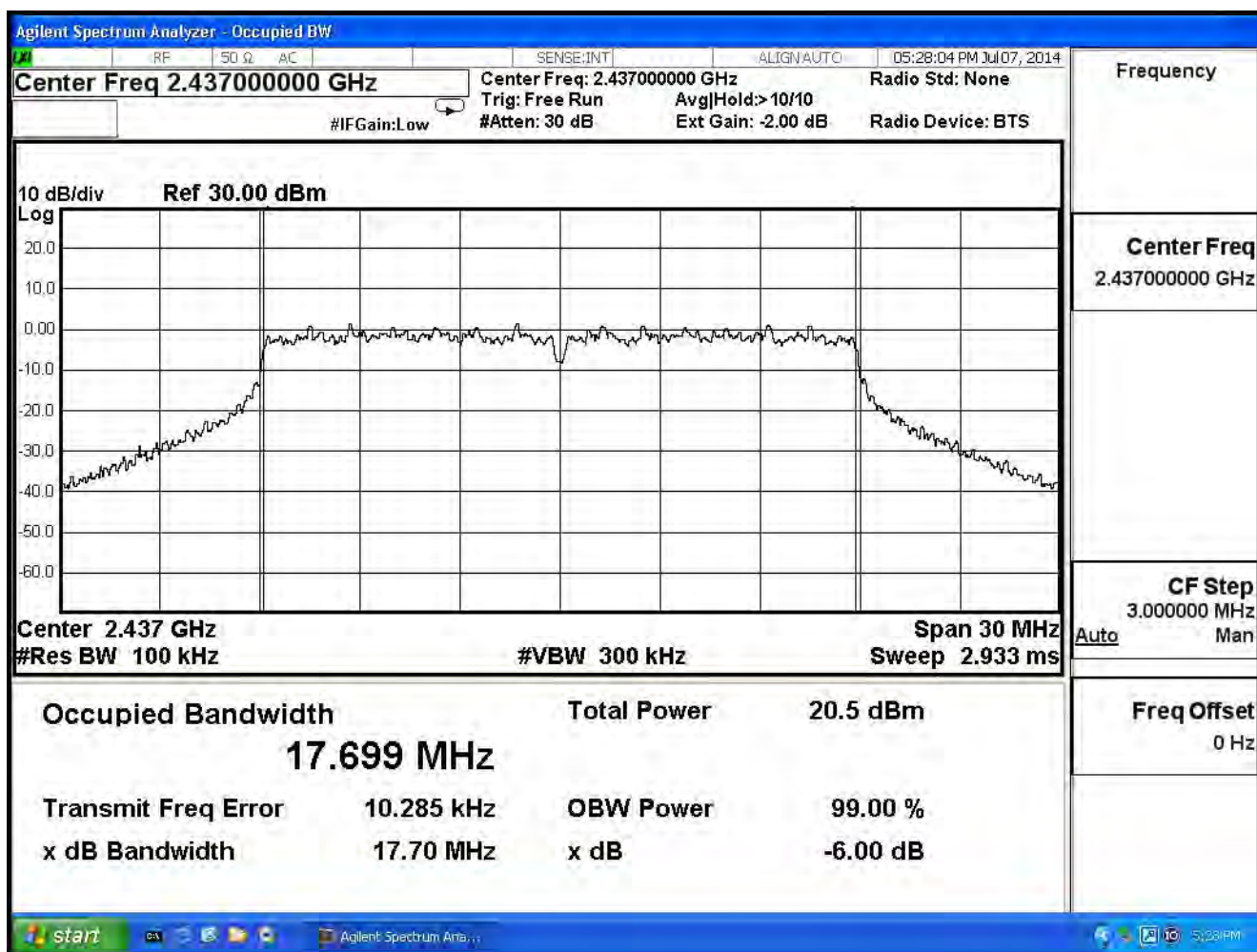
Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n (20MHz), ANT 0				
Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
1	2412	17.71	≥ 0.5	Pass
6	2437	17.70	≥ 0.5	Pass
11	2462	17.72	≥ 0.5	Pass

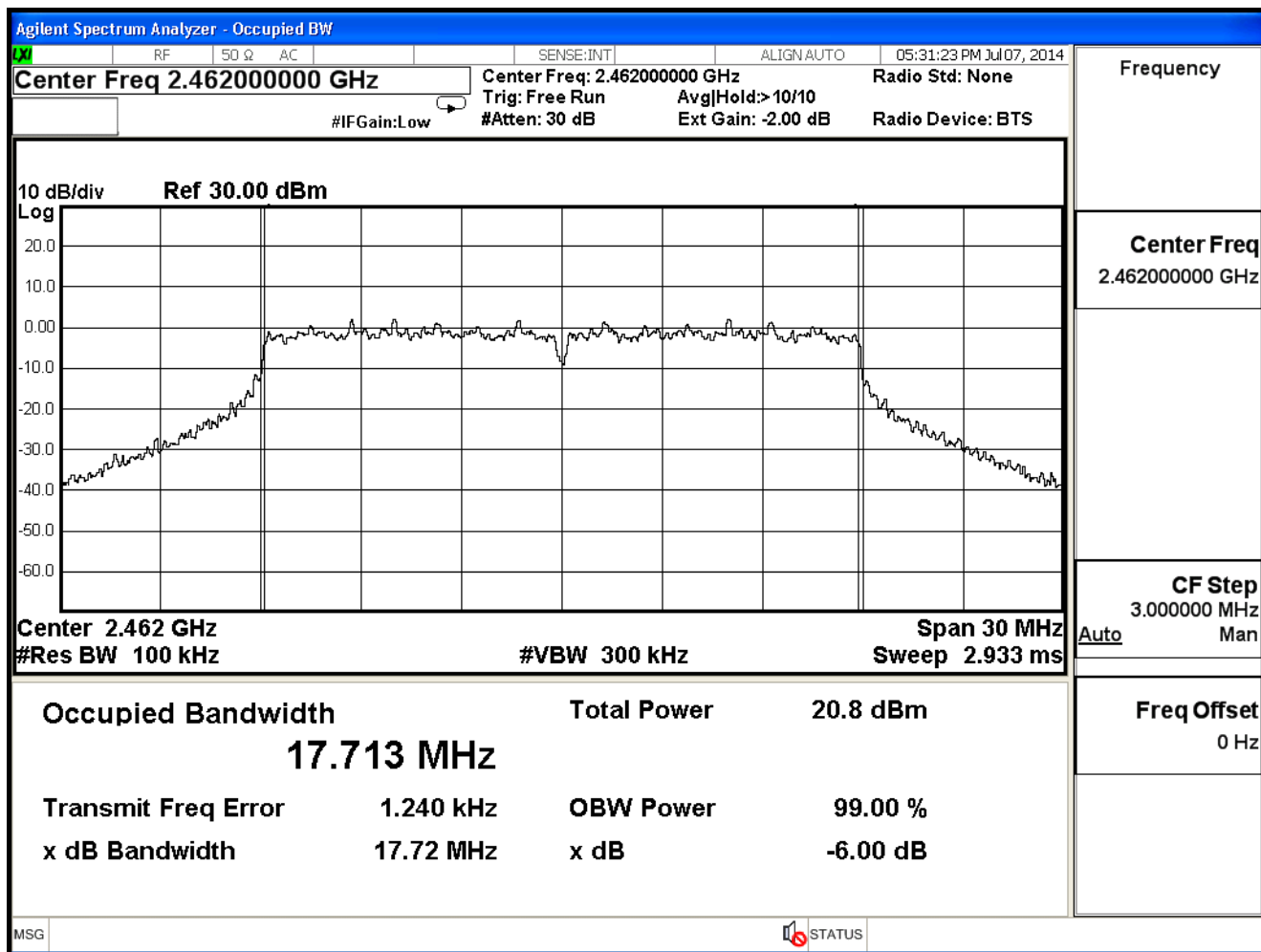
Channel 1



Channel 6



Channel 11

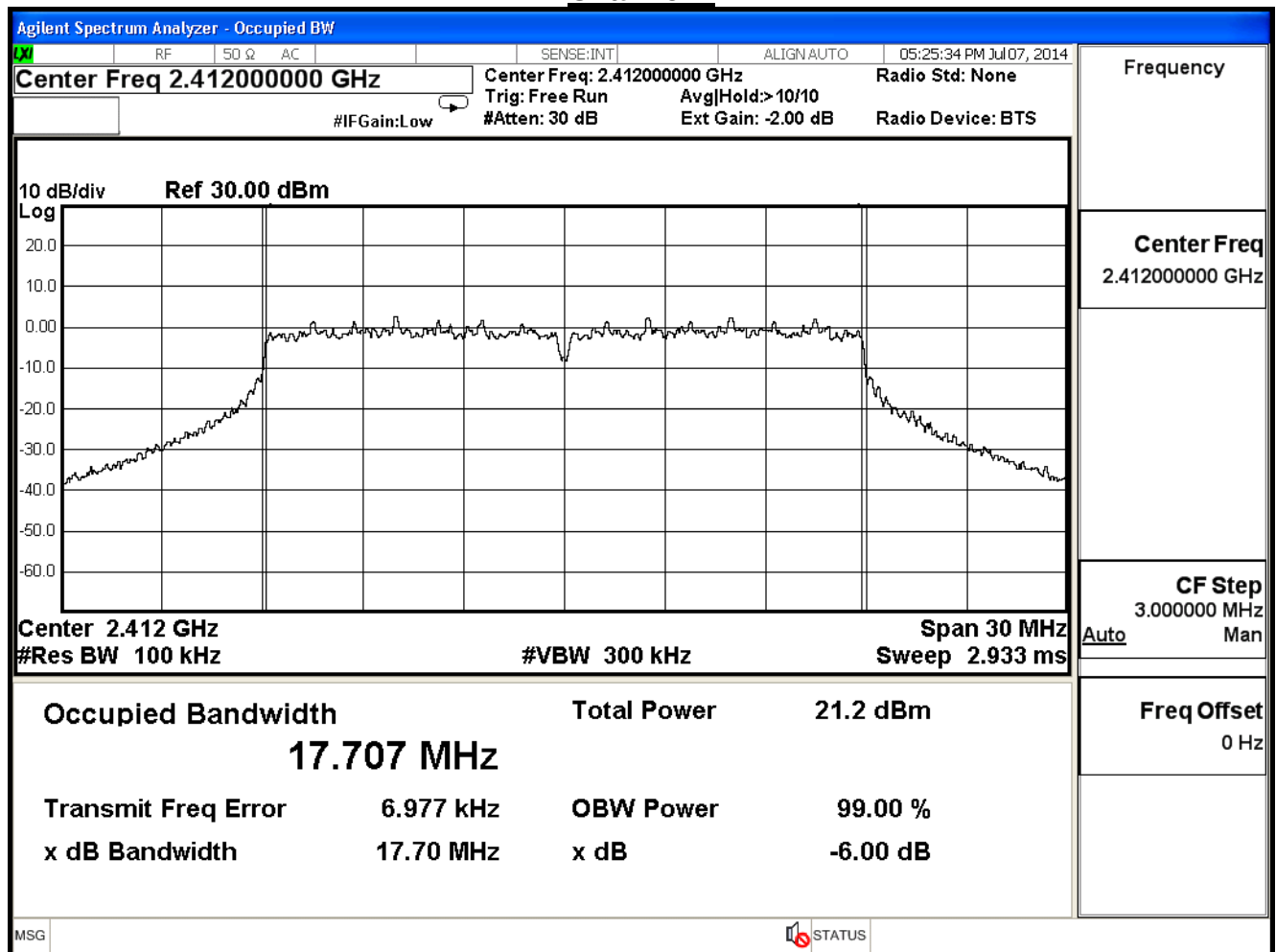


Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

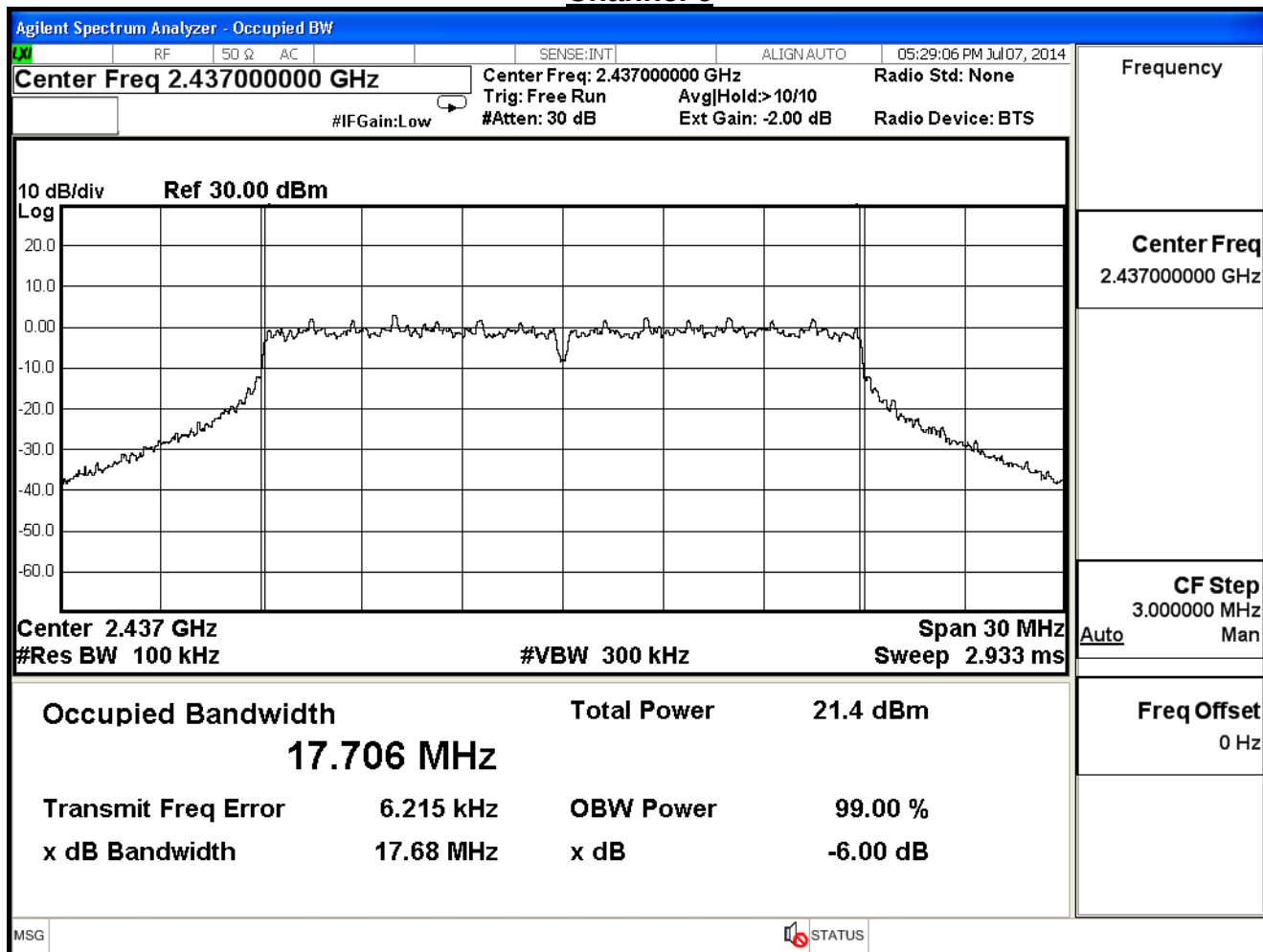
IEEE 802.11n (20MHz), ANT 1

Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
1	2412	17.70	≥ 0.5	Pass
6	2437	17.68	≥ 0.5	Pass
11	2462	17.65	≥ 0.5	Pass

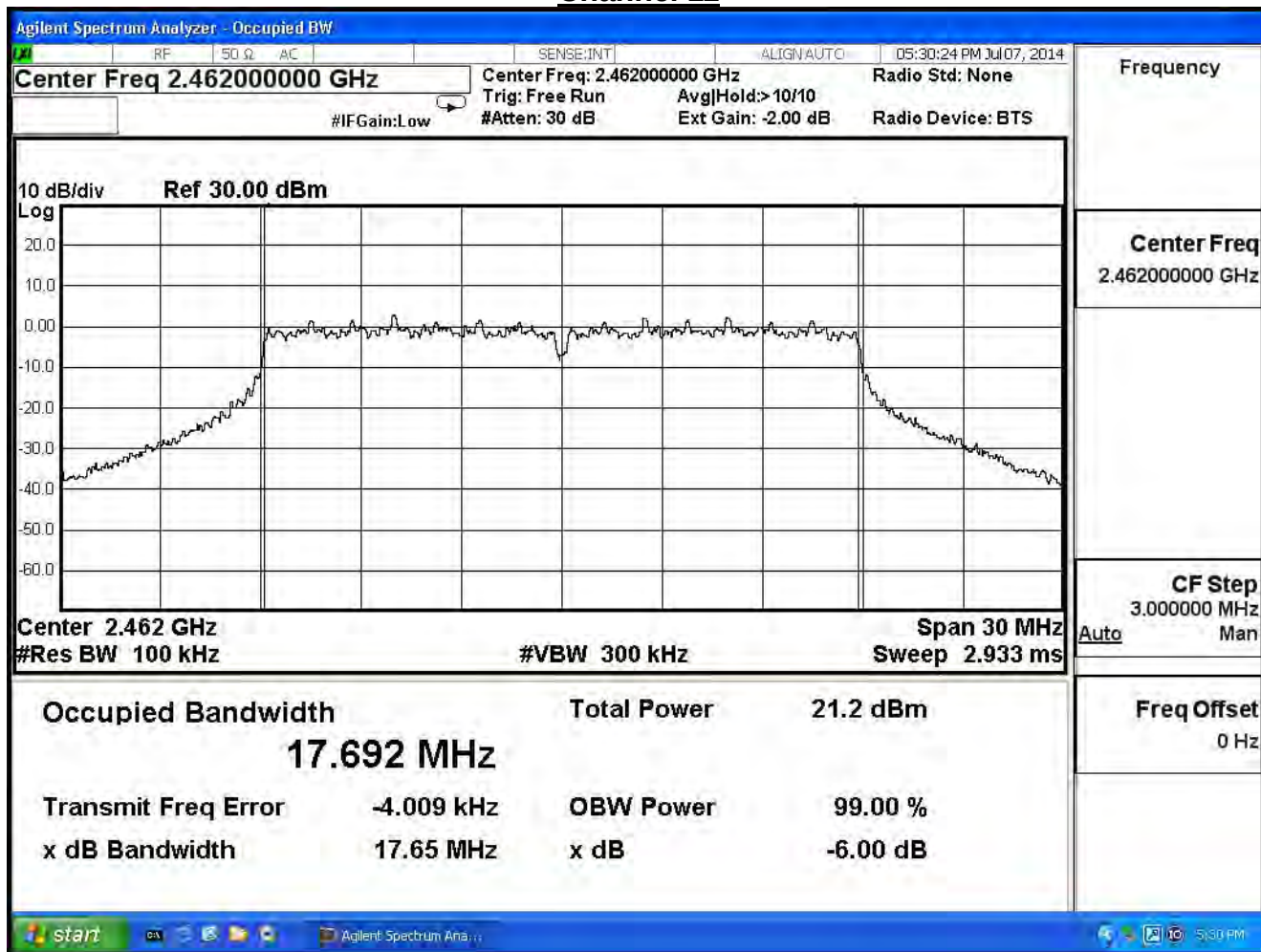
Channel 1



Channel 6



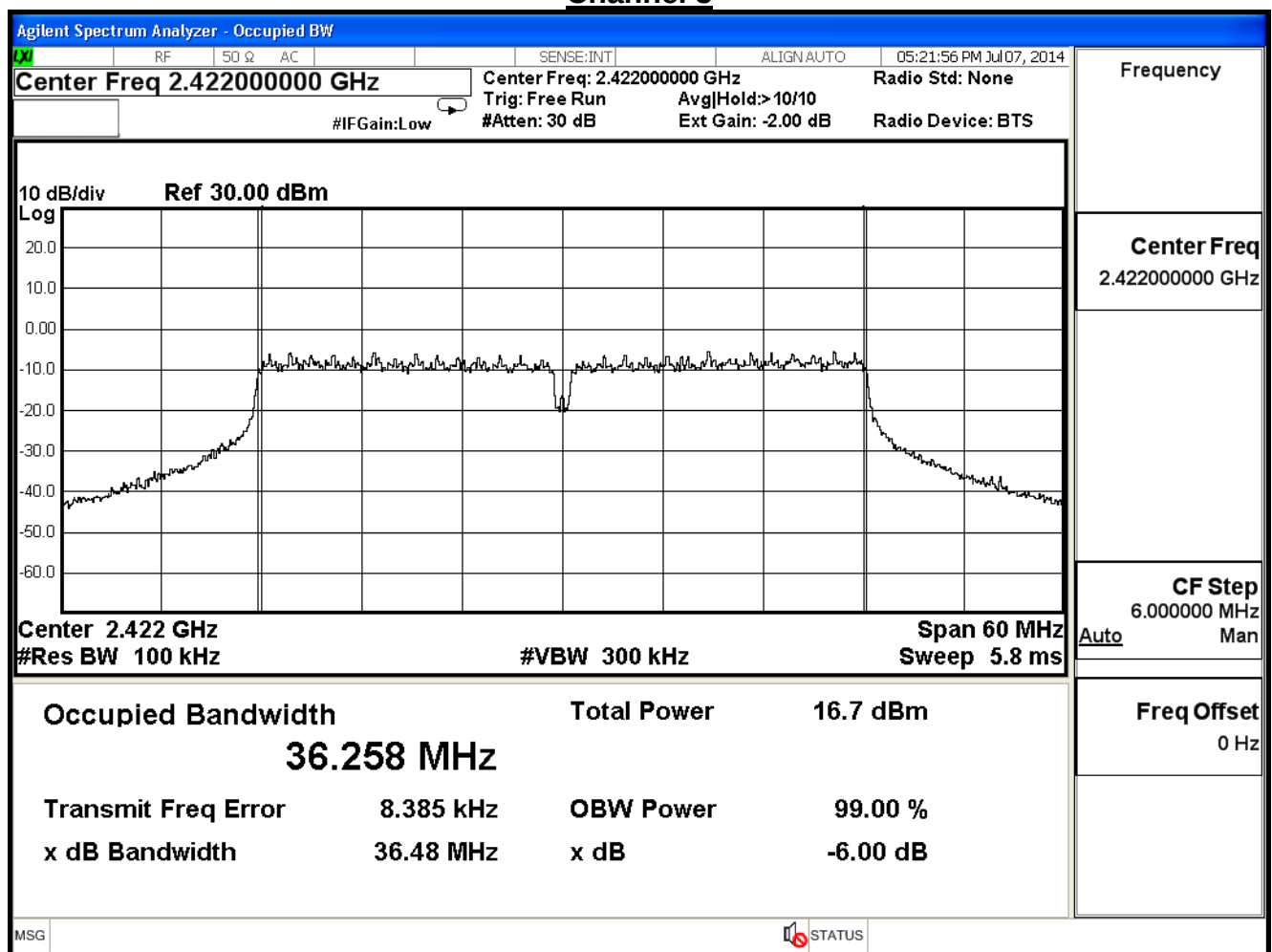
Channel 11



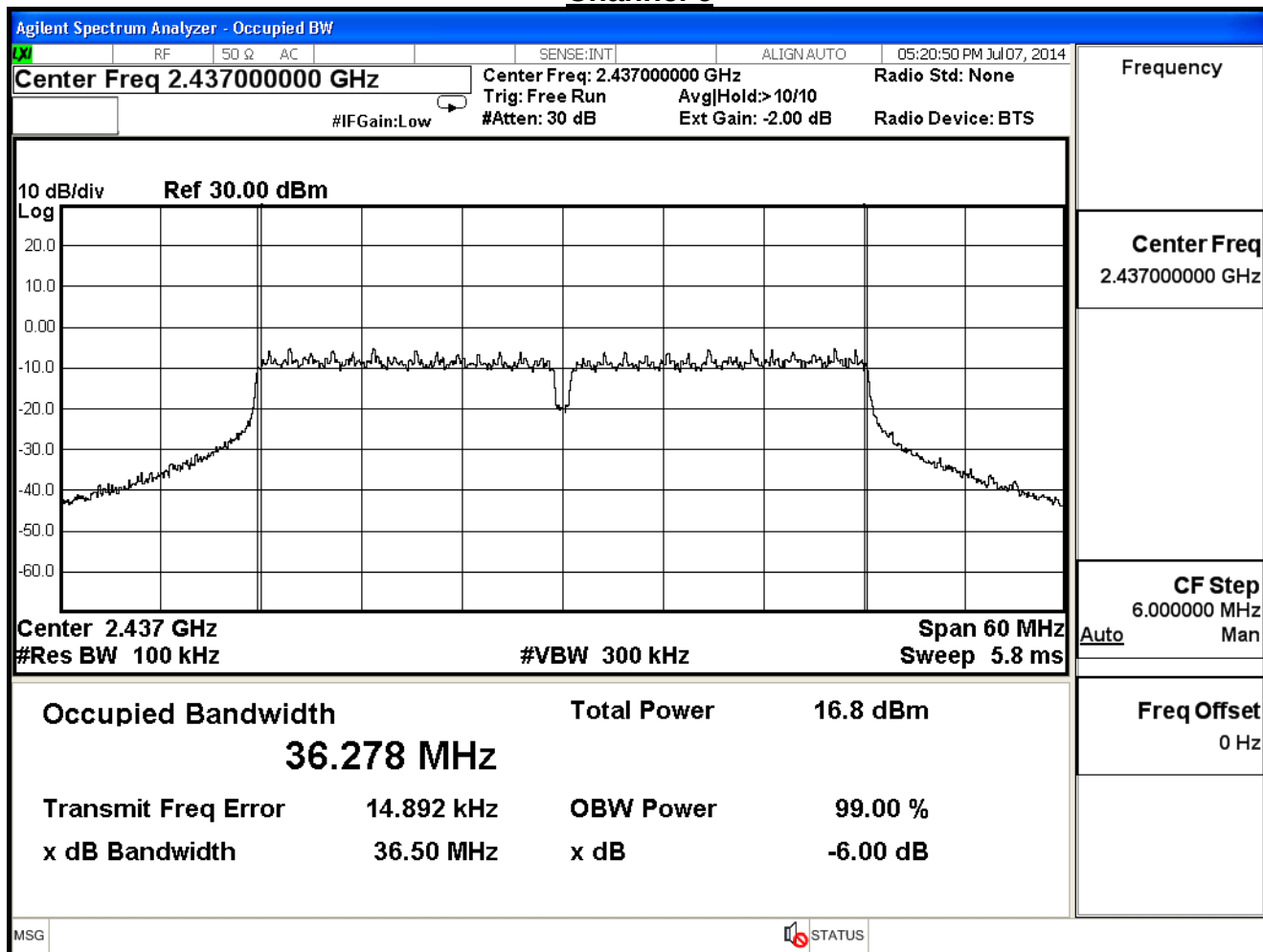
Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

IEEE 802.11n (40MHz), ANT 0				
Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
3	2422	36.48	≥ 0.5	Pass
6	2437	36.50	≥ 0.5	Pass
9	2452	36.47	≥ 0.5	Pass

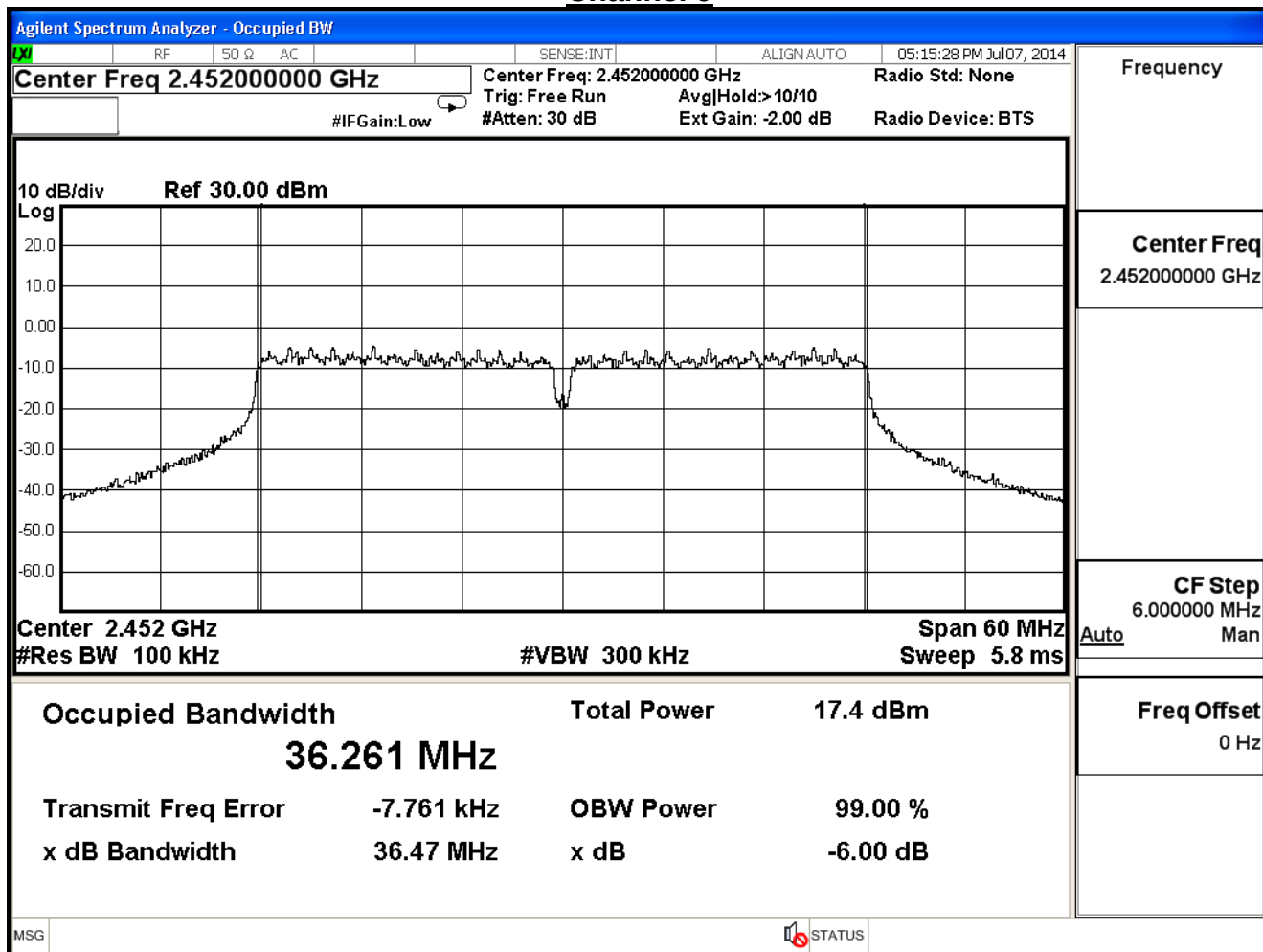
Channel 3



Channel 6



Channel 9

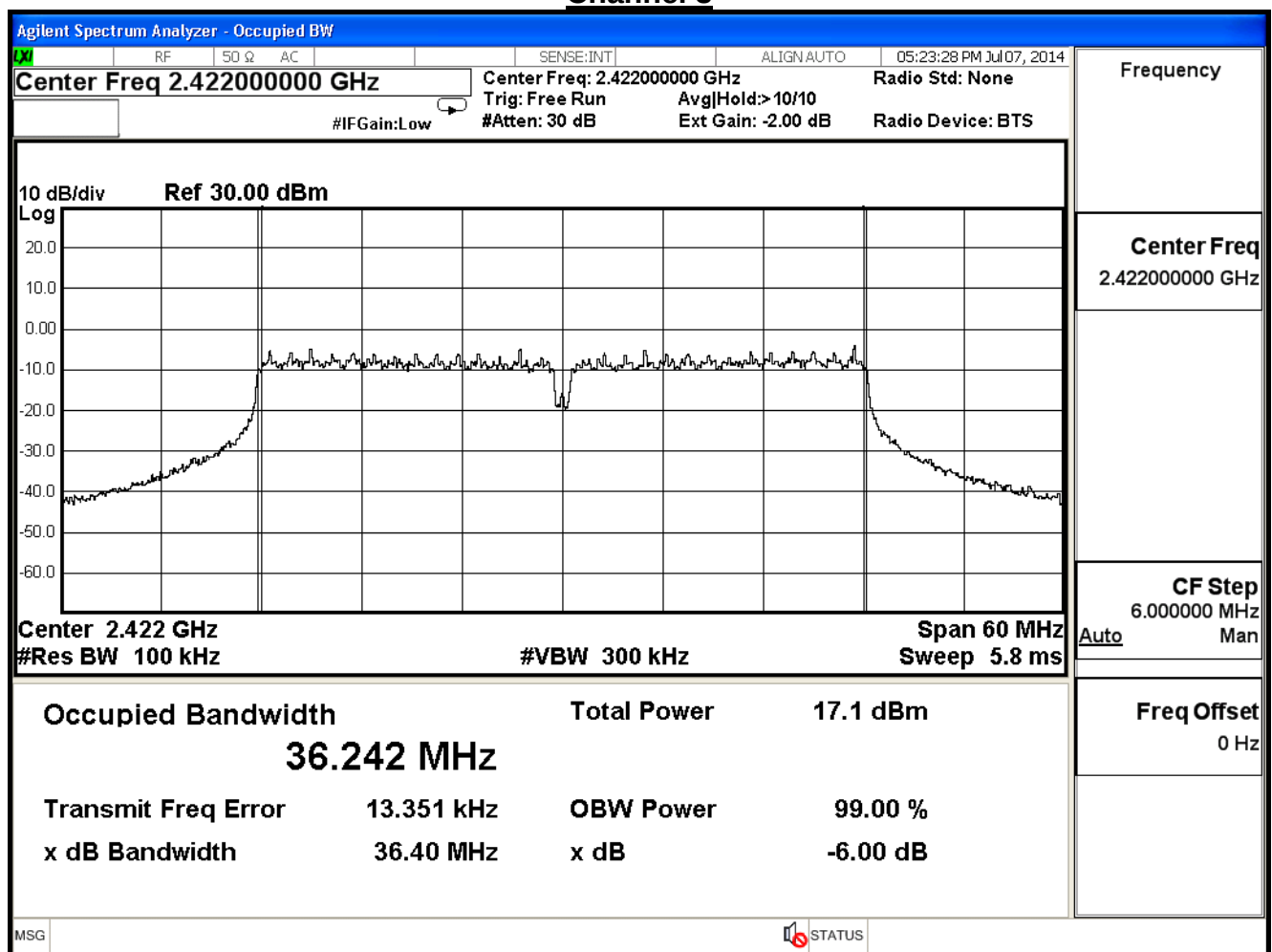


Product	Wireless Ceiling Access Point		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/09	Test Site	SR7

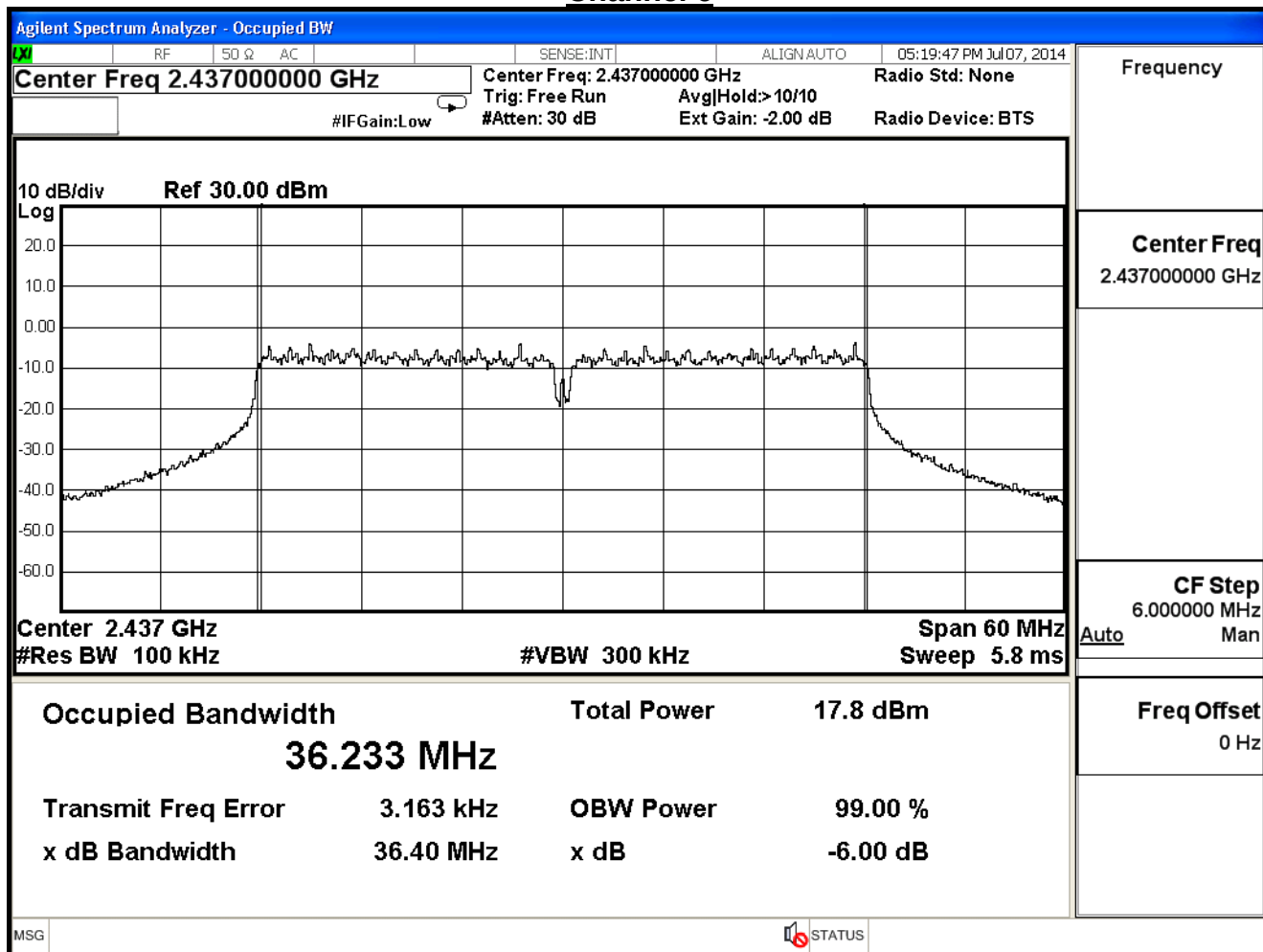
IEEE 802.11n (40MHz), ANT 1

Channel No.	Frequency (MHz)	Measurement Value (MHz)	Required Limit (MHz)	Result
3	2422	36.40	≥ 0.5	Pass
6	2437	36.40	≥ 0.5	Pass
9	2452	36.41	≥ 0.5	Pass

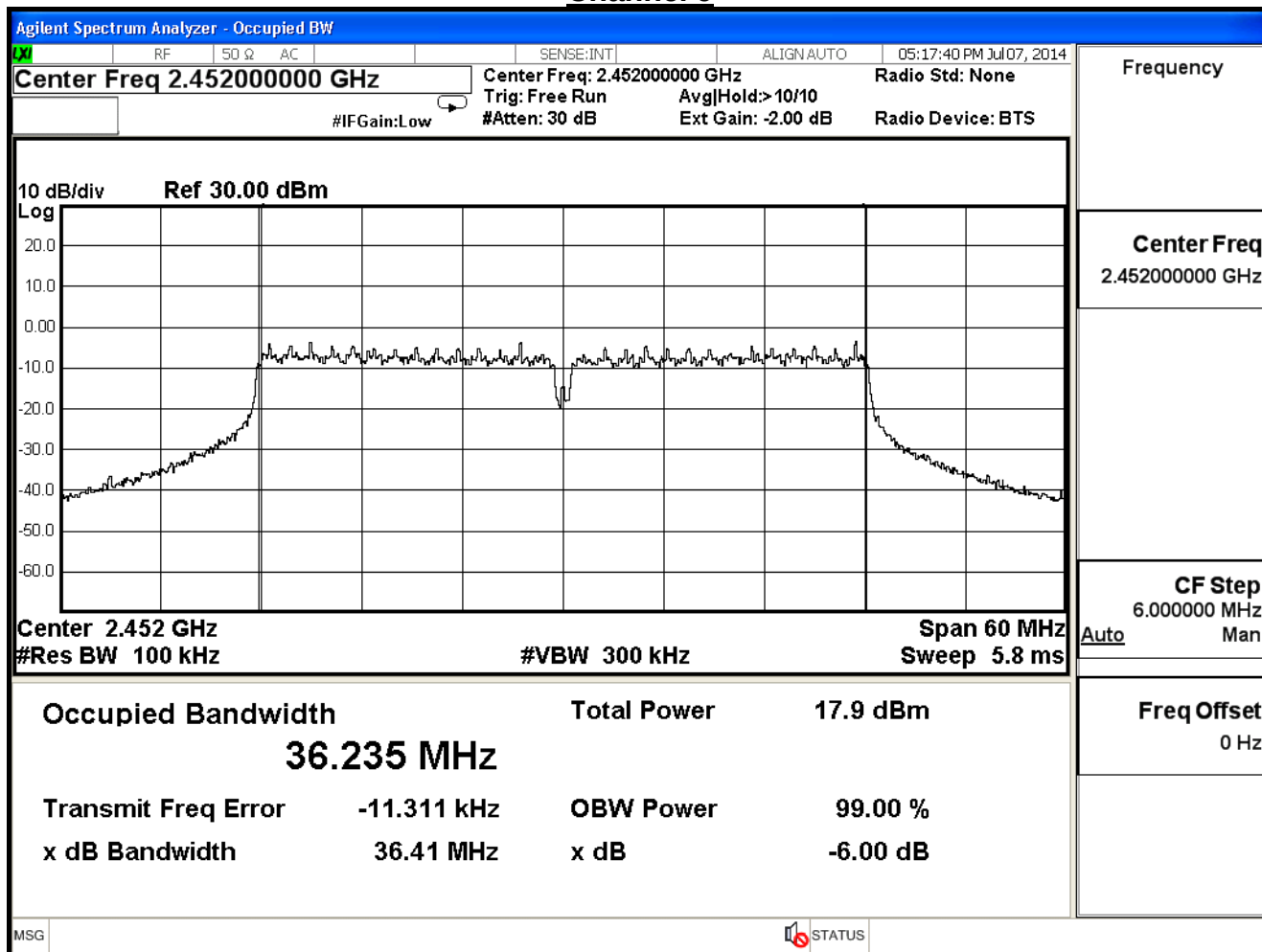
Channel 3



Channel 6



Channel 9



8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

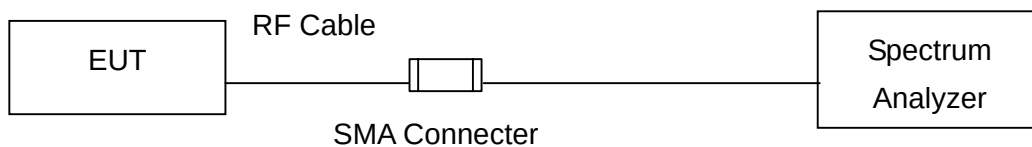
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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

8.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) MODE



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.10; tested according to DTS test procedure Section 10.2 of KDB558074 v03r02, Set the $3\text{KHz} \leq \text{RBW} \leq 100\text{KHz}$, Set the $\text{VBW} \geq 3 \times \text{RBW}$, Sweep time=Auto, Set Peak detector, Trace Max Hold.

.

8.5. Test Specification

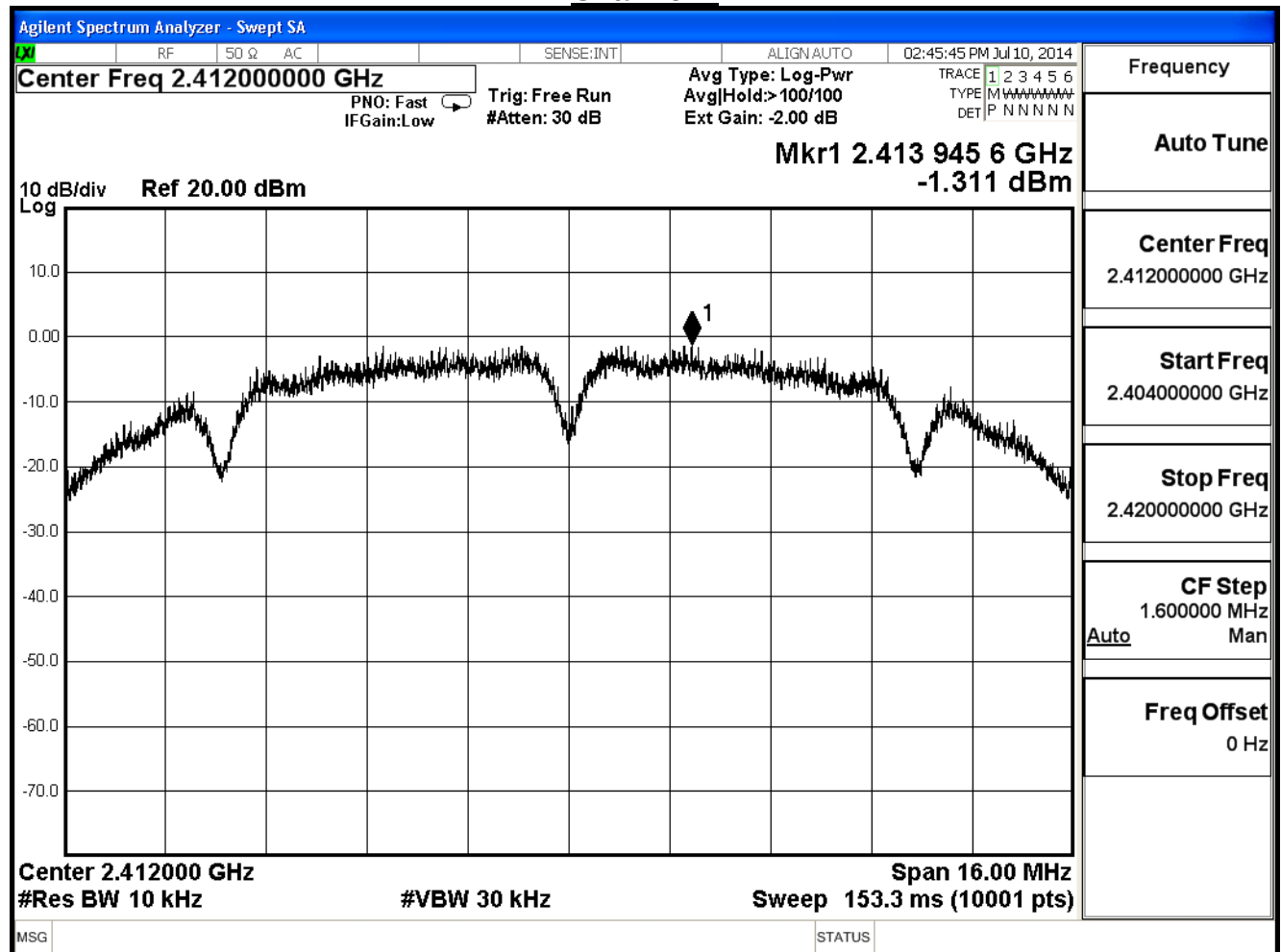
According to FCC Part 15 Subpart C Paragraph 15.247: 2013

8.6. Uncertainty

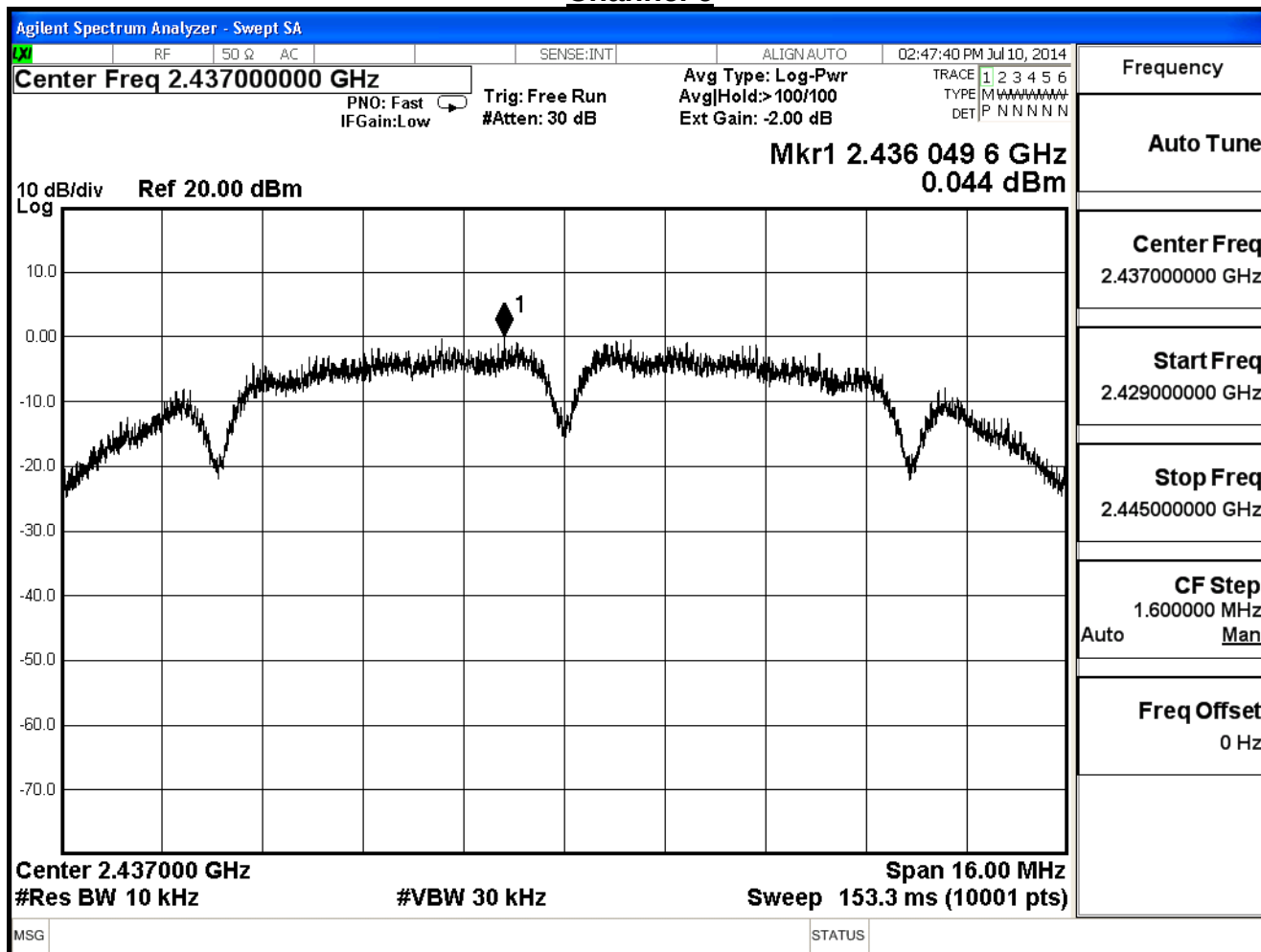
The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

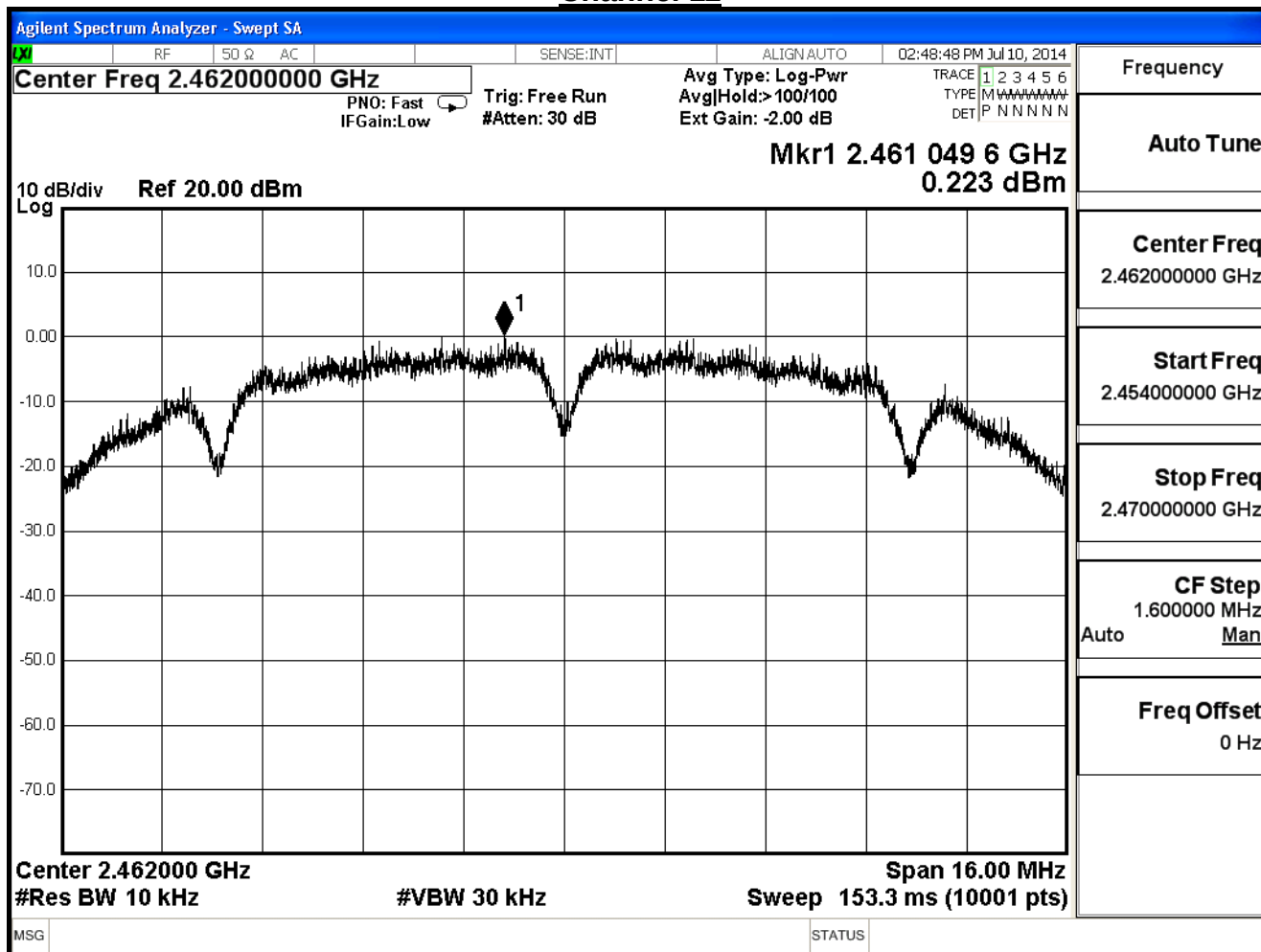
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-1.311	≤ 8	Pass
6	2437	0.044	≤ 8	Pass
11	2462	0.223	≤ 8	Pass



Channel 6



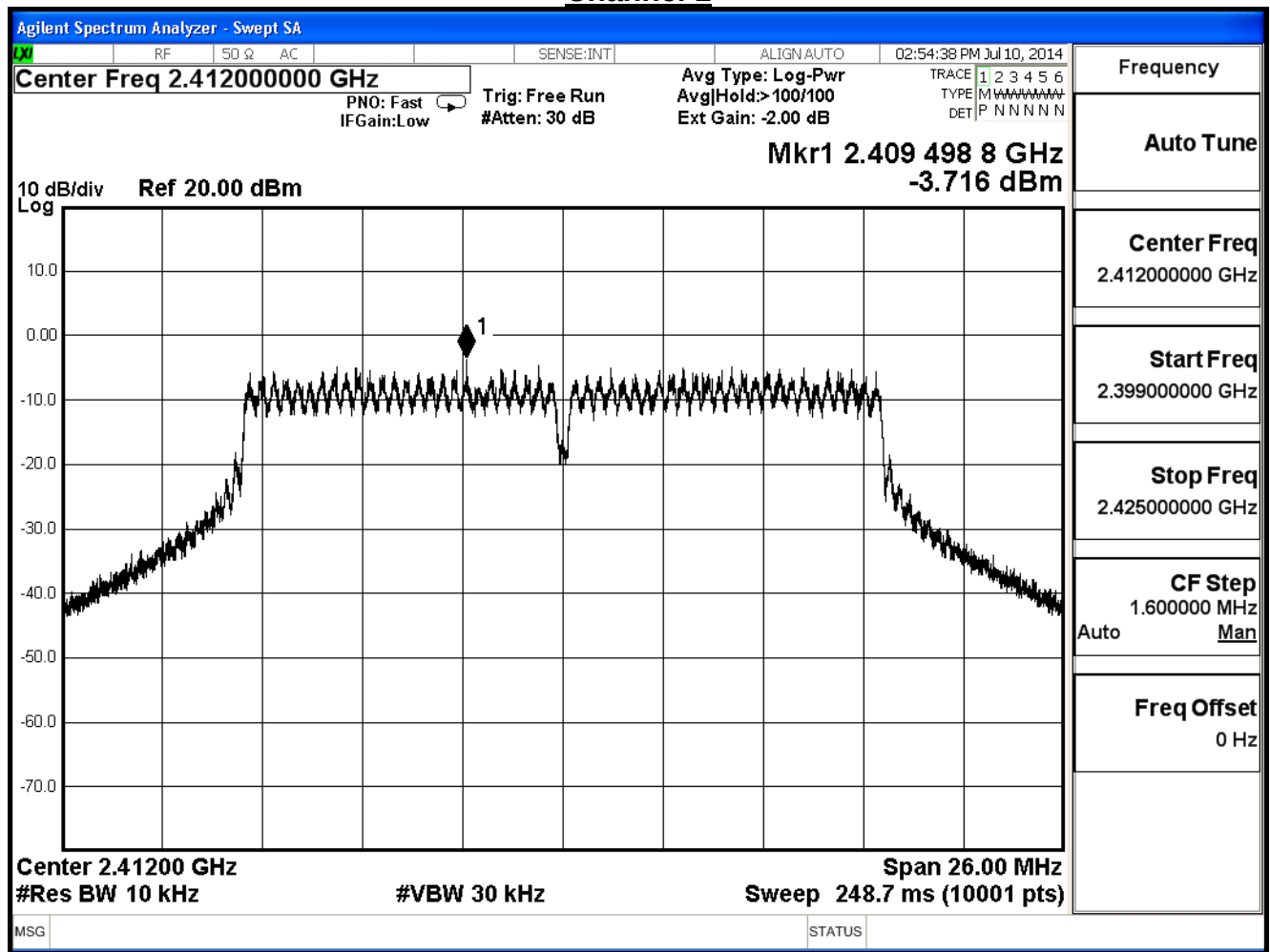
Channel 11



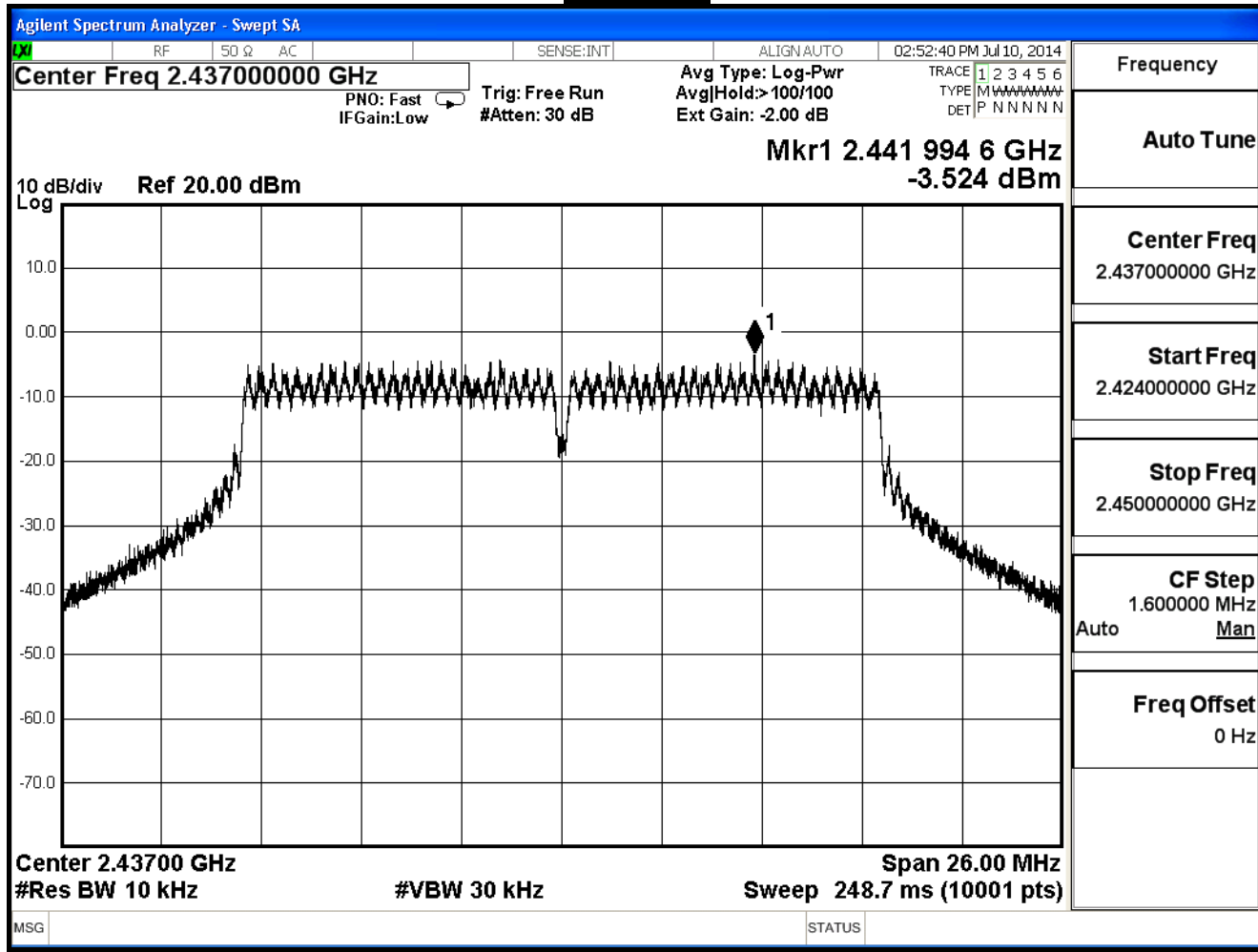
Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-3.716	≤ 8	Pass
6	2437	-3.524	≤ 8	Pass
11	2462	-2.921	≤ 8	Pass

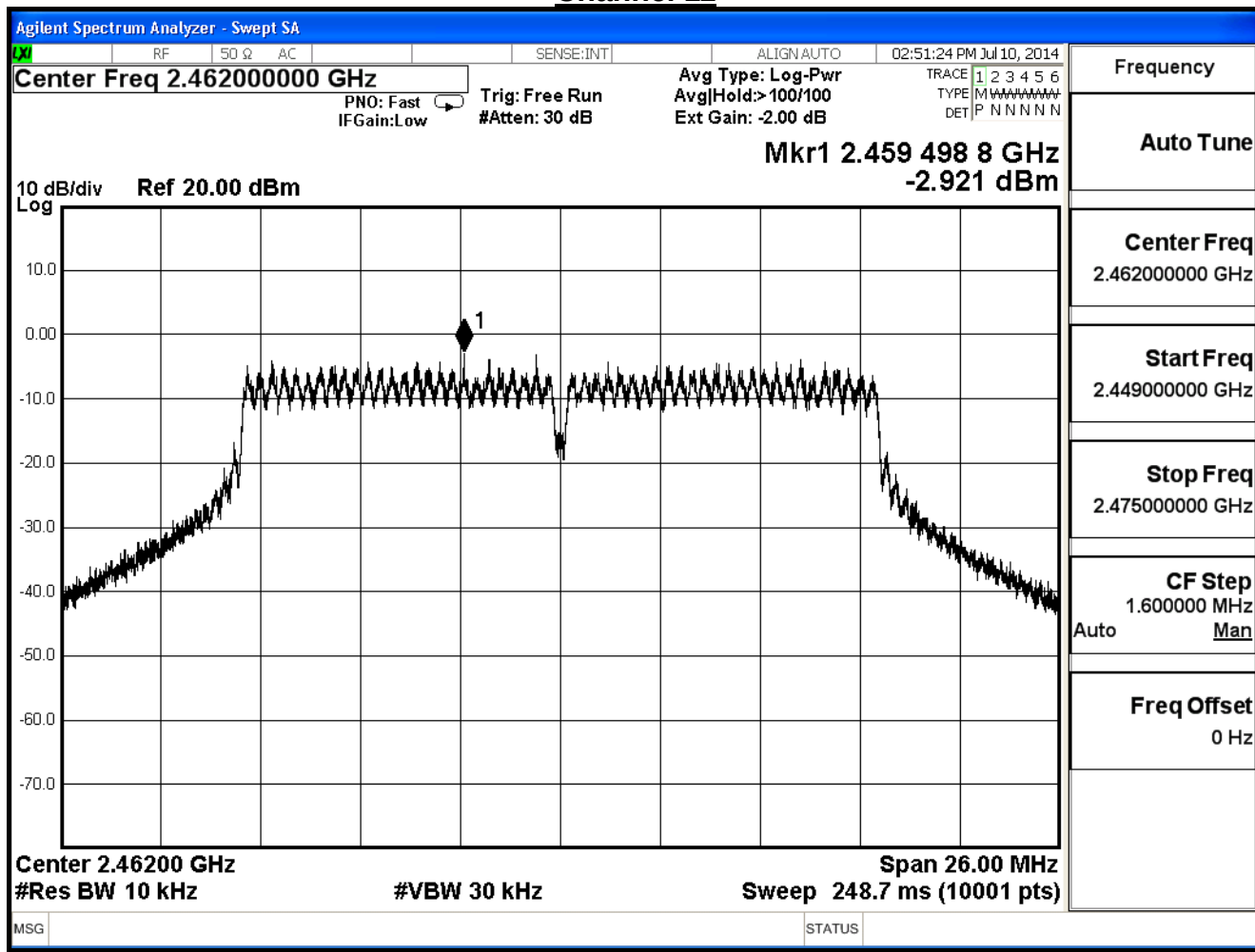
Channel 1



Channel 6



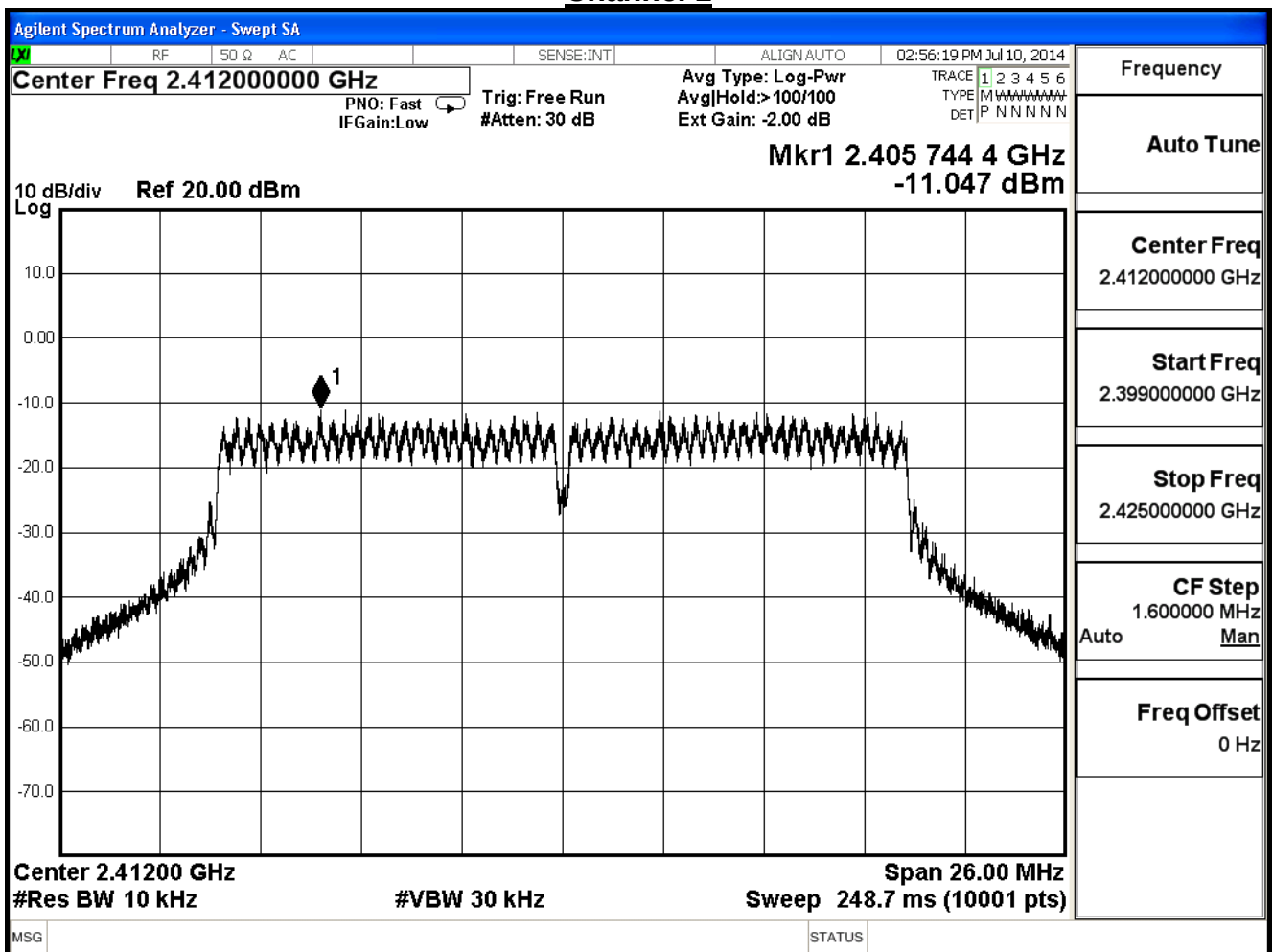
Channel 11



Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE802.11n_20MHz, ANT 0				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-11.047	≤ 8	Pass
6	2437	-10.280	≤ 8	Pass
11	2462	-10.396	≤ 8	Pass

Channel 1



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.43700000 GHz

PN0: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold:>100/100 Ext Gain: -2.00 dB

02:57:37 PM Jul 10, 2014

TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W DET P N N N N N N

Frequency

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.424000000 GHz

Stop Freq 2.450000000 GHz

CF Step 1.600000 MHz Auto Man

Freq Offset 0 Hz

10 dB/div Ref 20.00 dBm

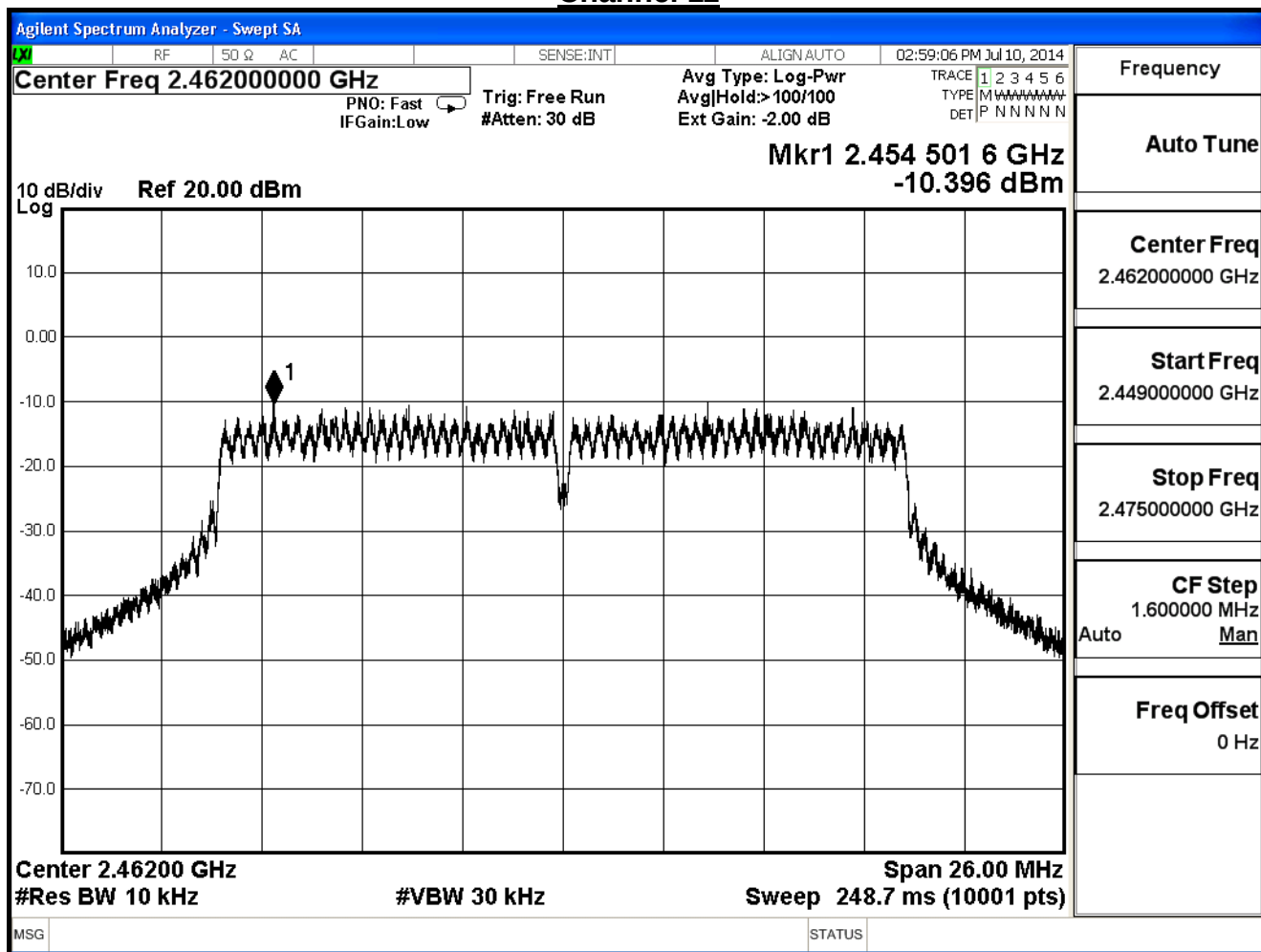
Log

Mkr1 2.432 000 2 GHz -10.280 dBm

Center 2.43700 GHz #Res BW 10 kHz #VBW 30 kHz Span 26.00 MHz Sweep 248.7 ms (10001 pts)

MSG STATUS

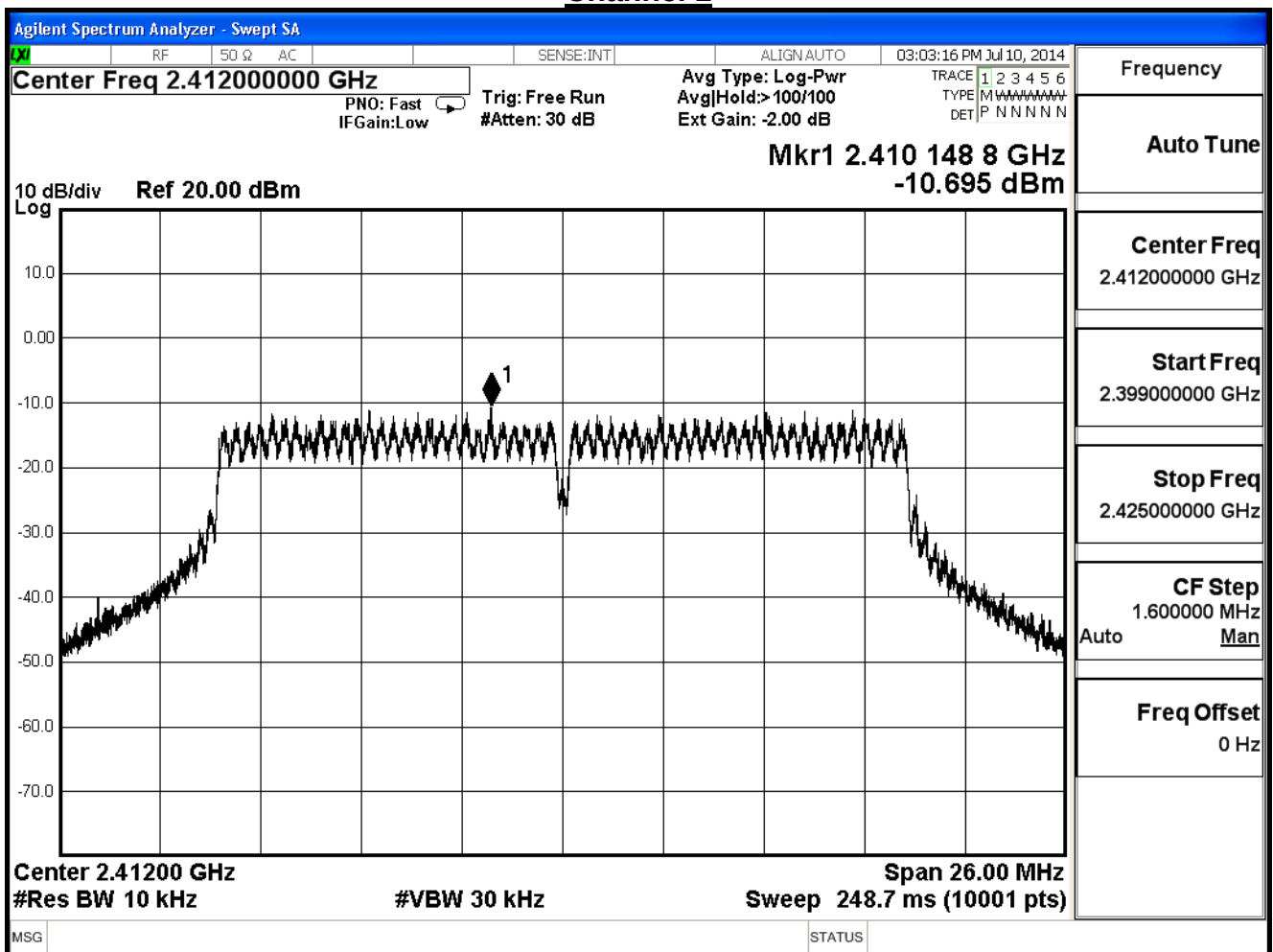
Channel 11



Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE802.11n_20MHz, ANT 1				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-10.695	≤ 8	Pass
6	2437	-8.278	≤ 8	Pass
11	2462	-9.567	≤ 8	Pass

Channel 1



Agilent Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT ALIGN AUTO 03:01:59 PM Jul 10, 2014

Center Freq 2.43700000 GHz

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold:>100/100 Ext Gain: -2.00 dB

TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P N N N N N

Mkr1 2.441 997 2 GHz -8.278 dBm

10 dB/div Ref 20.00 dBm

Log

The spectrum analyzer displays a swept signal. The frequency axis ranges from 2.424 GHz to 2.450 GHz. The power axis is logarithmic, ranging from -70 dBm to 10 dBm. The signal shows a flat noise floor at approximately -20 dBm, with a sharp dip at 2.4419972 GHz. The signal is noisy, with a bandwidth of 30 kHz. The center frequency is 2.437 GHz, and the span is 26 MHz. The resolution bandwidth is 10 kHz, and the sweep time is 248.7 ms (10001 points).

Center Freq 2.43700000 GHz

Start Freq 2.424000000 GHz

Stop Freq 2.450000000 GHz

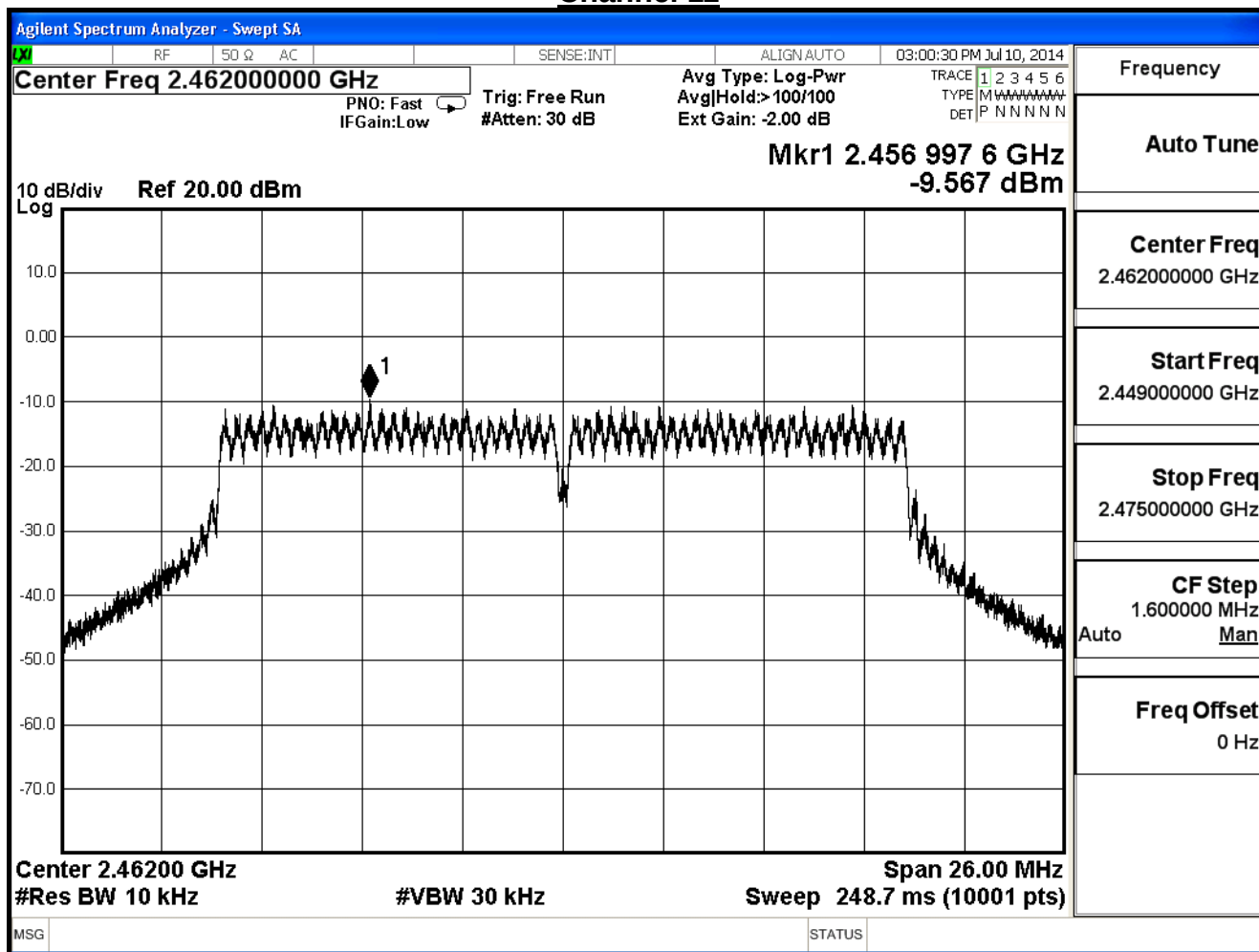
CF Step 1.600000 MHz Auto Man

Freq Offset 0 Hz

Center 2.43700 GHz #Res BW 10 kHz #VBW 30 kHz Span 26.00 MHz Sweep 248.7 ms (10001 pts)

MSG STATUS

Channel 11



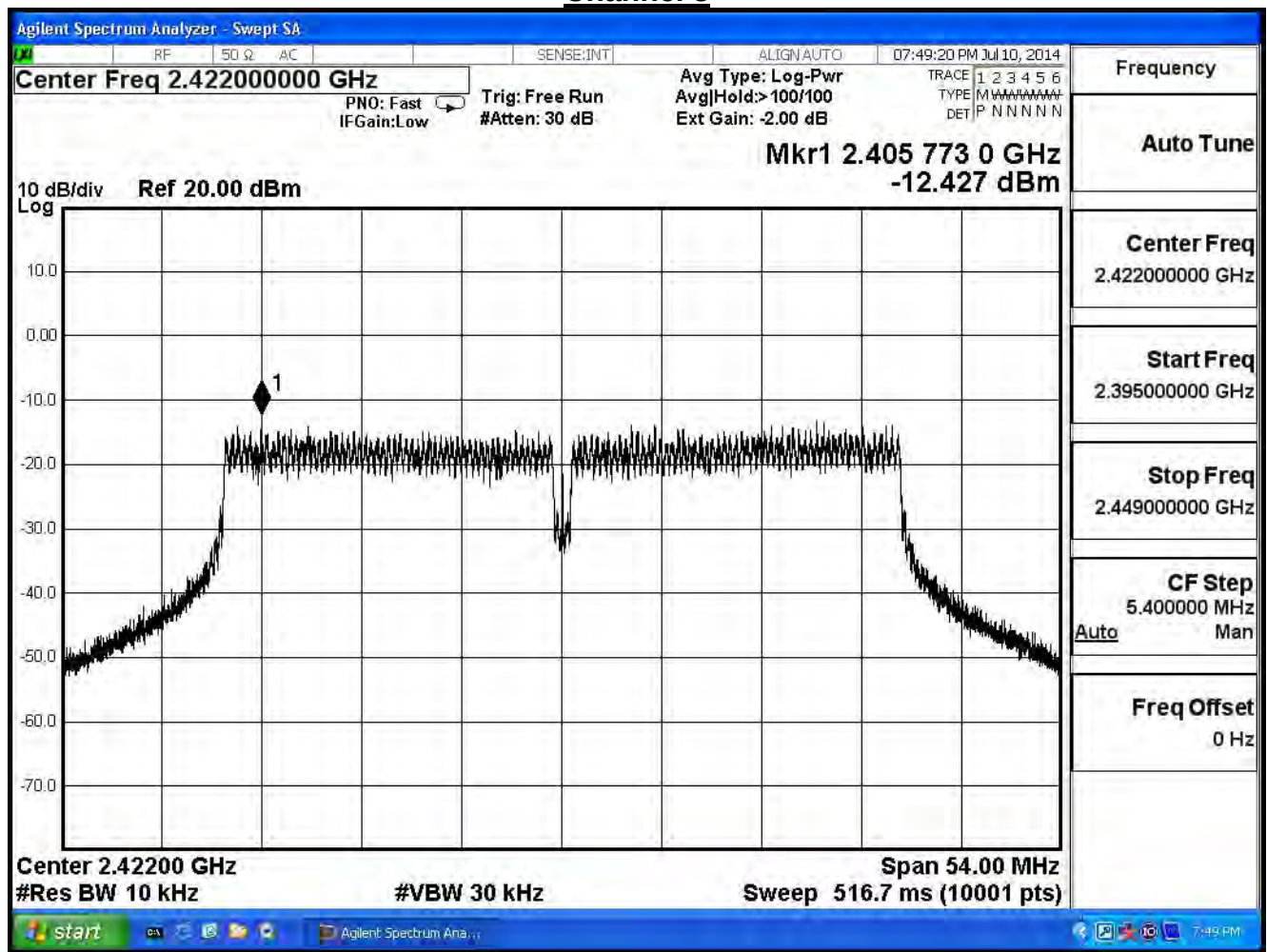
Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n(20MHz) ANT 0+1				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-7.859	≤ 8	Pass
6	2437	-6.154	≤ 8	Pass
11	2462	-6.953	≤ 8	Pass

Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE802.11n_40MHz, ANT 0				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
3	2412	-12.427	≤ 8	Pass
6	2437	-13.331	≤ 8	Pass
9	2462	-12.233	≤ 8	Pass

Channel 3



Agilent Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:46:22 PM Jul 10, 2014

Center Freq 2.43700000 GHz

PN0: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold:> 100/100 Ext Gain: -2.00 dB

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P N N N N N N

Mkr1 2.420 778 4 GHz
-13.331 dBm

10 dB/div Ref 20.00 dBm
Log

Center 2.43700 GHz
#Res BW 10 kHz #VBW 30 kHz Span 54.00 MHz
Sweep 516.7 ms (10001 pts)

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.410000000 GHz

Stop Freq
2.464000000 GHz

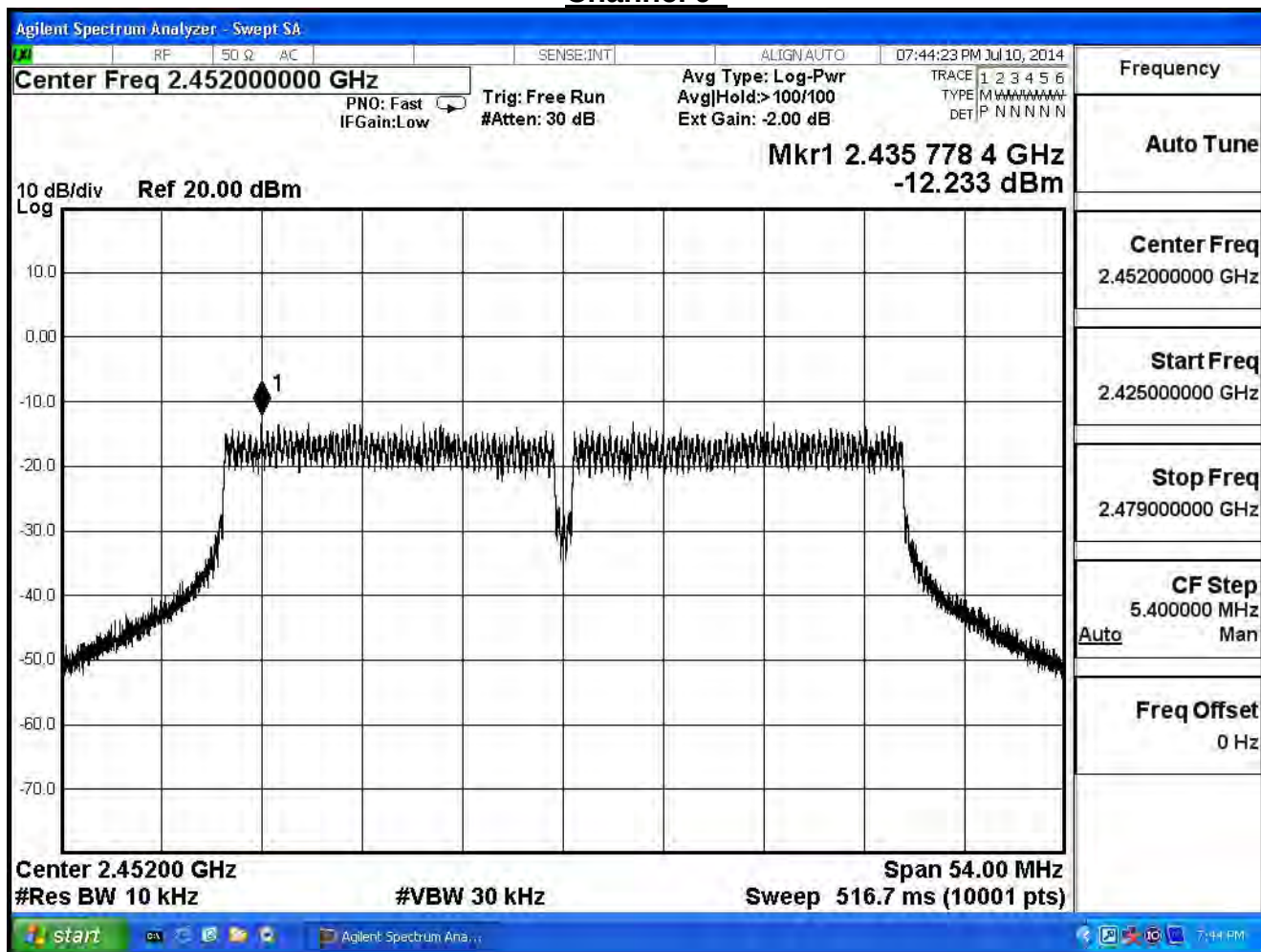
CF Step
5.400000 MHz
Auto Man

Freq Offset
0 Hz

start Agilent Spectrum Ana...

7:45 PM

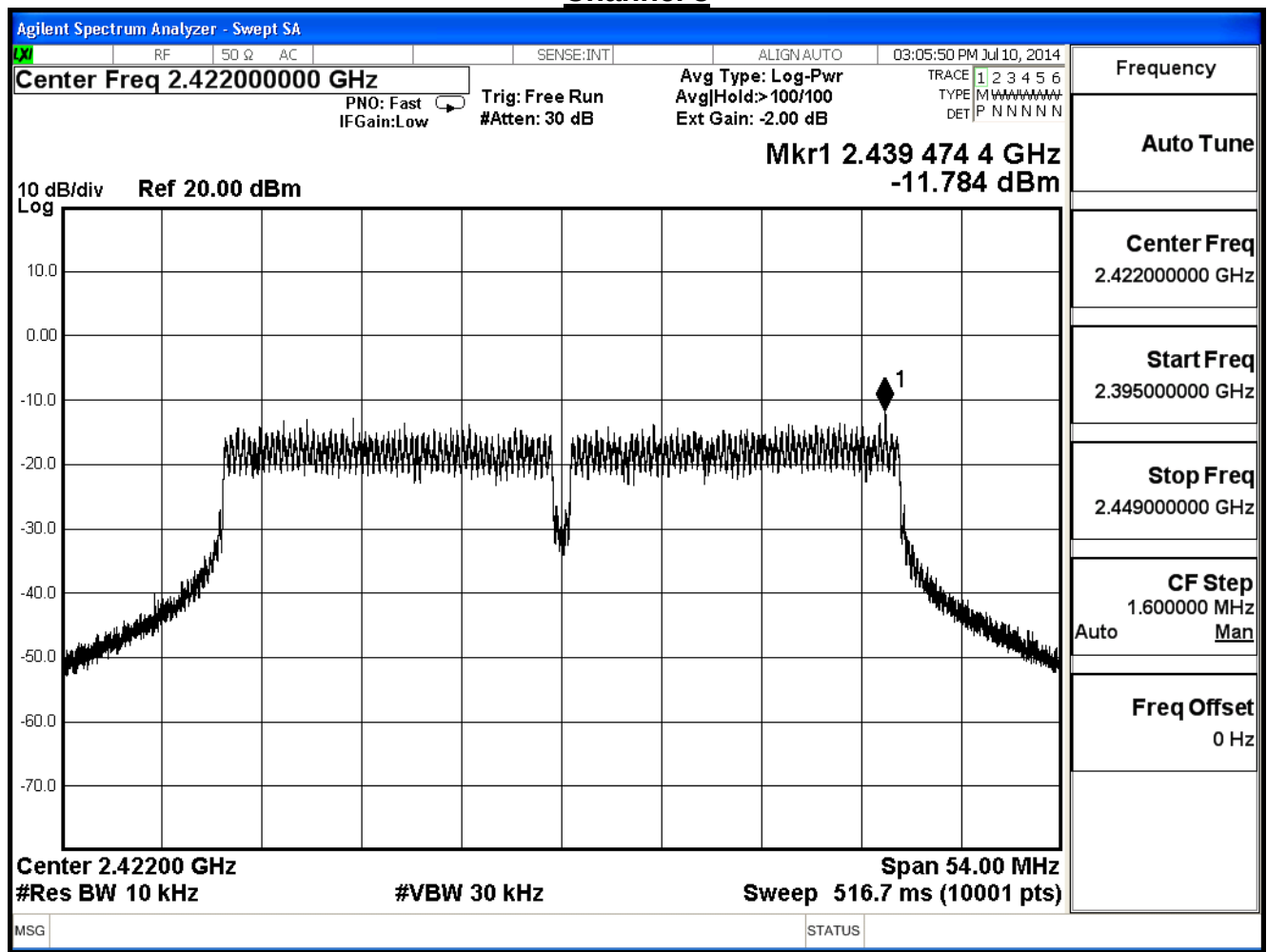
Channel 9



Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE802.11n_40MHz, ANT 1				
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	-11.784	≤ 8	Pass
6	2437	-12.503	≤ 8	Pass
9	2452	-11.874	≤ 8	Pass

Channel 3



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.43700000 GHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold:>100/100 Ext Gain: -2.00 dB

03:07:49 PM Jul 10, 2014

TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N

Frequency

Auto Tune

Center Freq 2.43700000 GHz

Start Freq 2.410000000 GHz

Stop Freq 2.464000000 GHz

CF Step 1.600000 MHz Auto Man

Freq Offset 0 Hz

10 dB/div Ref 20.00 dBm

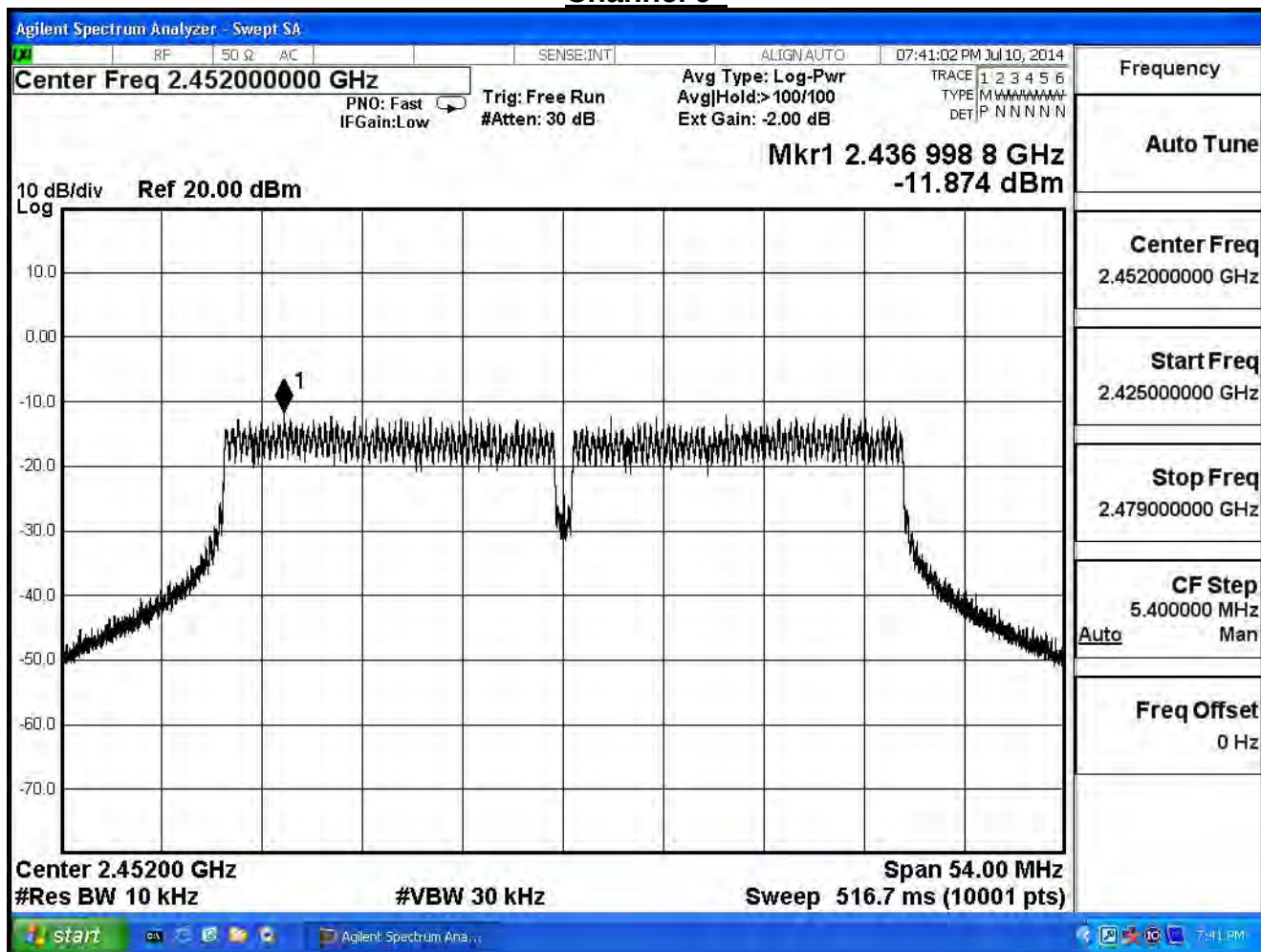
Mkr1 2.454 474 4 GHz -12.503 dBm

The spectrum analyzer display shows a swept signal. The horizontal axis represents frequency, ranging from 2.410 GHz to 2.464 GHz. The vertical axis represents power, ranging from -70.0 dBm to 10.0 dBm. The signal is a noisy trace that rises from -50.0 dBm at 2.410 GHz to a plateau around -20.0 dBm between 2.420 GHz and 2.450 GHz, then falls back to -50.0 dBm at 2.464 GHz. A marker labeled '1' is placed on the rising edge of the signal at 2.454 GHz, indicating a power level of -12.503 dBm. The center frequency is set to 2.437 GHz, and the span is 54.00 MHz. The resolution bandwidth is 10 kHz, and the video bandwidth is 30 kHz. The sweep time is 516.7 ms, covering 10001 points.

Center 2.43700 GHz #Res BW 10 kHz #VBW 30 kHz Span 54.00 MHz Sweep 516.7 ms (10001 pts)

MSG STATUS

Channel 9



Product	Wireless Ceiling Access Point		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2014/07/08	Test Site	SR7

IEEE 802.11n(40MHz) (Worse Condition+10log(Ant N))=Ant0

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	-9.085	≤ 8	Pass
6	2437	-9.887	≤ 8	Pass
9	2452	-9.038	≤ 8	Pass