



FCC RF Test Report

APPLICANT : Qualcomm Atheros, Inc.
EQUIPMENT : 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
BRAND NAME : Qualcomm Atheros
MODEL NAME : QCNFA364A
FCC ID : PPD-QCNFA364AH
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: Lenovo Legion Y920-17IKB Laptop, 80YW) during test.

The product was received on Feb. 18, 2017 and testing was completed on Mar. 22, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

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Approved by: Jones Tsai / Manager



Sporton International (KunShan) INC.
No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR721810C	Rev. 01	Initial issue of report	Apr. 07, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	1
-	-	99% Bandwidth	-	Pass	1
3.1	15.247(b)	Peak and Average Output Power	$\leq 30\text{dBm}$	Pass	-
-	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	1
-	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	1
		Conducted Spurious Emission		Pass	1
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.31 dB at 2484.040 MHz
-	15.207	AC Conducted Emission	15.207(a)	Pass	1
3.3	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-
Remark 1: All conducted test items were leverage from module RF report which can refer to Report No. "RF150107E07B".					



1 General Description

1.1 Applicant

Qualcomm Atheros, Inc.

1700 Technology Drive, San Jose, CA 95110

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand Name	Qualcomm Atheros
Model Name	QCNFA364A
FCC ID	PPD-QCNFA364AH
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 5GHz 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v3.0+EDR, Bluetooth v4.0 LE, Bluetooth v4.1 LE
EUT Stage	Identical Prototype

Host Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	Lenovo Legion Y920-17IKB Laptop, 80YW
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, Shanghai, 200131 China
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay Hong Kong

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.3 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz		
Antenna Type / Gain	Chain Port 1: PIFA Antenna with gain -5.75 dBi Chain Port 2: PIFA Antenna with gain -2.43 dBi		
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function for Transmitter		Chain Port 1	Chain Port 2
	802.11 b/g/n/ac SISO	V	V
	802.11 b/g/n/ac MIMO	V	V

Note: MIMO Chain Port 1+2 is a calculated result from sum of the power MIMO Chain Port 1 and MIMO Chain Port 2.



1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Test Site	Sporton International (KunShan) INC.	
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH03-KS	306251

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



2.2 Test Mode

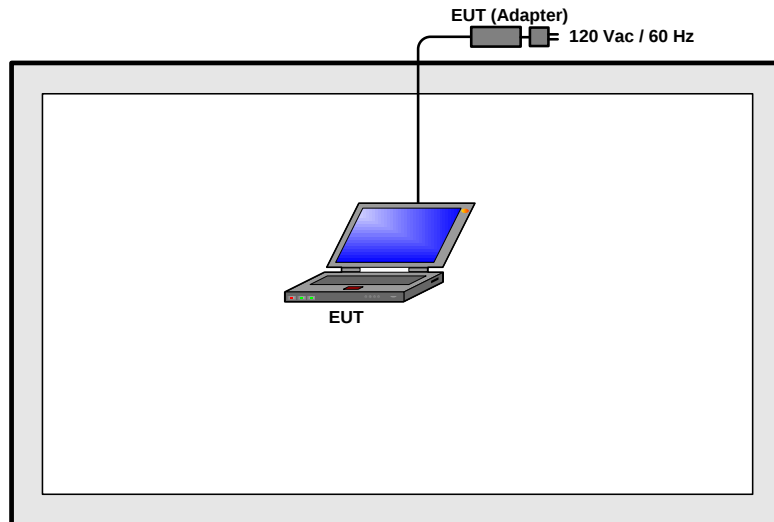
Final test mode of radiated spurious emissions is considering the modulation as below table.

MIMO Antenna

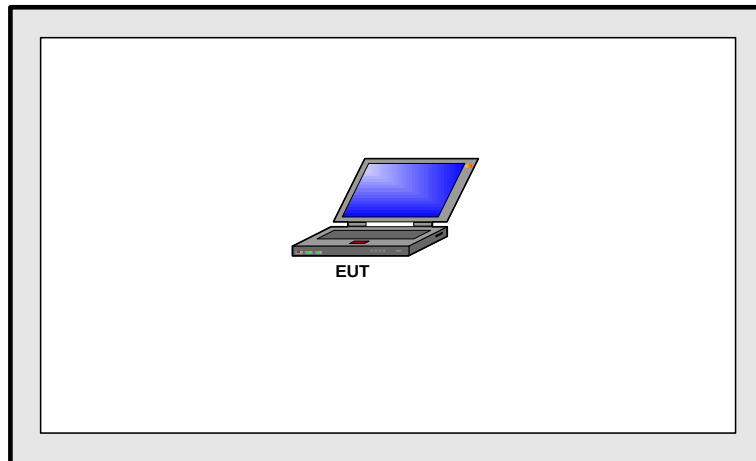
Modulation
802.11b
802.11g
802.11ac VHT20
802.11ac VHT40

2.3 Connection Diagram of Test System

For 802.11 b/g/ac VHT20 (CH10)/ac VHT40



For 802.11 ac VHT20 (CH1/6/11)



2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

3 Test Result

3.1 Peak and Average Output Power Measurement

3.1.1 Limit of Peak and Average Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

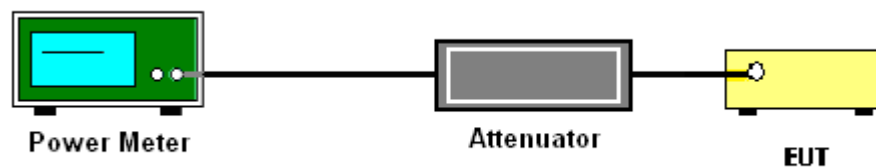
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	20.32	20.48		30.00	30.00	-5.75	-2.43	14.57	18.05	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.43	20.89		30.00	30.00	-5.75	-2.43	14.68	18.46	36.00	36.00	Pass
11b	1Mbps	1	11	2462	19.66	20.62		30.00	30.00	-5.75	-2.43	13.91	18.19	36.00	36.00	Pass
11g	6Mbps	1	1	2412	20.95	21.32		30.00	30.00	-5.75	-2.43	15.20	18.89	36.00	36.00	Pass
11g	6Mbps	1	6	2437	23.51	23.99		30.00	30.00	-5.75	-2.43	17.76	21.56	36.00	36.00	Pass
11g	6Mbps	1	11	2462	19.41	20.53		30.00	30.00	-5.75	-2.43	13.66	18.10	36.00	36.00	Pass
HT20	MCS0	1	1	2412	21.30	21.69		30.00	30.00	-5.75	-2.43	15.55	19.26	36.00	36.00	Pass
HT20	MCS0	1	6	2437	23.62	24.11		30.00	30.00	-5.75	-2.43	17.87	21.68	36.00	36.00	Pass
HT20	MCS0	1	11	2462	19.88	21.15		30.00	30.00	-5.75	-2.43	14.13	18.72	36.00	36.00	Pass
HT40	MCS0	1	3	2422	17.88	18.06		30.00	30.00	-5.75	-2.43	12.13	15.63	36.00	36.00	Pass
HT40	MCS0	1	4	2427	19.25	20.45		30.00	30.00	-5.75	-2.43	13.50	18.02	36.00	36.00	Pass
HT40	MCS0	1	5	2432	19.36	20.31		30.00	30.00	-5.75	-2.43	13.61	17.88	36.00	36.00	Pass
HT40	MCS0	1	6	2437	19.56	20.41		30.00	30.00	-5.75	-2.43	13.81	17.98	36.00	36.00	Pass
HT40	MCS0	1	7	2442	19.46	20.82		30.00	30.00	-5.75	-2.43	13.71	18.39	36.00	36.00	Pass
HT40	MCS0	1	8	2447	19.18	19.75		30.00	30.00	-5.75	-2.43	13.43	17.32	36.00	36.00	Pass
HT40	MCS0	1	9	2452	16.60	17.30		30.00	30.00	-5.75	-2.43	10.85	14.87	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	21.38	15.08		30.00	30.00	-5.75	-2.43	15.63	12.65	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	23.73	18.24		30.00	30.00	-5.75	-2.43	17.98	15.81	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	20.28	14.50		30.00	30.00	-5.75	-2.43	14.53	12.07	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	17.92	18.11		30.00	30.00	-5.75	-2.43	12.17	15.68	36.00	36.00	Pass
VHT40	MCS0	1	4	2427	19.33	20.56		30.00	30.00	-5.75	-2.43	13.58	18.13	36.00	36.00	Pass
VHT40	MCS0	1	5	2432	19.23	20.39		30.00	30.00	-5.75	-2.43	13.48	17.96	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	19.80	20.44		30.00	30.00	-5.75	-2.43	14.05	18.01	36.00	36.00	Pass
VHT40	MCS0	1	7	2442	19.48	20.85		30.00	30.00	-5.75	-2.43	13.73	18.42	36.00	36.00	Pass
VHT40	MCS0	1	8	2447	19.18	19.79		30.00	30.00	-5.75	-2.43	13.43	17.36	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	16.93	17.33		30.00	30.00	-5.75	-2.43	11.18	14.90	36.00	36.00	Pass



11b	1Mbps	2	1	2412	20.62	20.64	23.64	30.00	-2.43	21.21	36.00	Pass
11b	1Mbps	2	6	2437	20.45	21.03	23.76	30.00	-2.43	21.33	36.00	Pass
11b	1Mbps	2	11	2462	19.75	20.76	23.29	30.00	-2.43	20.86	36.00	Pass
11g	6Mbps	2	1	2412	20.99	21.44	24.23	30.00	-2.43	21.80	36.00	Pass
11g	6Mbps	2	6	2437	23.65	24.01	26.84	30.00	-2.43	24.41	36.00	Pass
11g	6Mbps	2	11	2462	19.47	20.76	23.17	30.00	-2.43	20.74	36.00	Pass
HT20	MCS0	2	1	2412	21.32	21.82	24.59	30.00	-2.43	22.16	36.00	Pass
HT20	MCS0	2	6	2437	23.67	24.15	26.93	30.00	-2.43	24.50	36.00	Pass
HT20	MCS0	2	10	2457	24.66	24.61	27.65	30.00	-2.43	25.22	36.00	Pass
HT20	MCS0	2	11	2462	19.92	21.31	23.68	30.00	-2.43	21.25	36.00	Pass
HT40	MCS0	2	3	2422	17.96	18.13	21.06	30.00	-2.43	18.63	36.00	Pass
HT40	MCS0	2	4	2427	19.48	20.49	23.02	30.00	-2.43	20.59	36.00	Pass
HT40	MCS0	2	5	2432	19.46	20.46	23.00	30.00	-2.43	20.57	36.00	Pass
HT40	MCS0	2	6	2437	19.62	20.78	23.25	30.00	-2.43	20.82	36.00	Pass
HT40	MCS0	2	7	2442	19.58	21.28	23.52	30.00	-2.43	21.09	36.00	Pass
HT40	MCS0	2	8	2447	19.24	20.04	22.67	30.00	-2.43	20.24	36.00	Pass
HT40	MCS0	2	9	2452	16.65	17.63	20.18	30.00	-2.43	17.75	36.00	Pass
VHT20	MCS0	2	1	2412	21.47	21.75	24.62	30.00	-2.43	22.19	36.00	Pass
VHT20	MCS0	2	6	2437	23.74	24.18	26.98	30.00	-2.43	24.55	36.00	Pass
VHT20	MCS0	2	10	2457	24.60	24.51	27.57	30.00	-2.43	25.14	36.00	Pass
VHT20	MCS0	2	11	2462	20.42	21.52	24.02	30.00	-2.43	21.59	36.00	Pass
VHT40	MCS0	2	3	2422	17.98	18.15	21.08	30.00	-2.43	18.65	36.00	Pass
VHT40	MCS0	2	4	2427	19.67	20.67	23.30	30.00	-2.43	20.87	36.00	Pass
VHT40	MCS0	2	5	2432	19.68	20.61	21.69	30.00	-2.43	19.26	36.00	Pass
VHT40	MCS0	2	6	2437	19.82	20.84	23.37	30.00	-2.43	20.94	36.00	Pass
VHT40	MCS0	2	7	2442	19.57	21.03	21.62	30.00	-2.43	19.19	36.00	Pass
VHT40	MCS0	2	8	2447	19.34	20.13	21.64	30.00	-2.43	19.21	36.00	Pass
VHT40	MCS0	2	9	2452	17.01	17.37	20.20	30.00	-2.43	17.77	36.00	Pass



3.1.6 Test Result of Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.00	0.00	17.69	17.83	
11b	1Mbps	1	6	2437	0.00	0.00	17.72	18.22	
11b	1Mbps	1	11	2462	0.00	0.00	17.04	17.97	
11g	6Mbps	1	1	2412	0.24	0.24	14.45	14.86	
11g	6Mbps	1	6	2437	0.24	0.24	17.32	17.85	
11g	6Mbps	1	11	2462	0.24	0.24	13.10	14.16	
HT20	MCS0	1	1	2412	0.24	0.24	14.38	14.82	
HT20	MCS0	1	6	2437	0.24	0.24	17.09	17.80	
HT20	MCS0	1	11	2462	0.24	0.24	13.22	14.38	
HT40	MCS0	1	3	2422	0.50	0.50	10.58	11.06	
HT40	MCS0	1	4	2427	0.50	0.50	11.92	13.23	
HT40	MCS0	1	5	2432	0.50	0.50	12.06	13.26	
HT40	MCS0	1	6	2437	0.50	0.50	12.44	13.25	
HT40	MCS0	1	7	2442	0.50	0.50	12.08	13.55	
HT40	MCS0	1	8	2447	0.50	0.50	11.77	12.85	
HT40	MCS0	1	9	2452	0.50	0.50	9.54	10.32	
VHT20	MCS0	1	1	2412	0.24	0.25	14.58	15.08	
VHT20	MCS0	1	6	2437	0.24	0.25	17.47	17.89	
VHT20	MCS0	1	11	2462	0.24	0.25	13.26	14.50	
VHT40	MCS0	1	3	2422	0.47	0.50	10.63	11.09	
VHT40	MCS0	1	4	2427	0.47	0.50	11.99	13.39	
VHT40	MCS0	1	5	2432	0.47	0.50	12.11	13.36	
VHT40	MCS0	1	6	2437	0.47	0.50	12.51	13.37	
VHT40	MCS0	1	7	2442	0.47	0.50	12.14	13.76	
VHT40	MCS0	1	8	2447	0.47	0.50	11.87	12.93	
VHT40	MCS0	1	9	2452	0.47	0.50	9.55	10.34	



11b	1Mbps	2	1	2412	0.00	0.00	17.95	18.01	20.99
11b	1Mbps	2	6	2437	0.00	0.00	17.82	18.48	21.17
11b	1Mbps	2	11	2462	0.00	0.00	17.25	18.05	20.68
11g	6Mbps	2	1	2412	0.24	0.24	14.59	15.19	17.91
11g	6Mbps	2	6	2437	0.24	0.24	17.55	18.46	21.04
11g	6Mbps	2	10	2462	0.24	0.24	18.83	19.28	22.07
11g	6Mbps	2	11	2462	0.24	0.24	13.17	14.39	16.83
HT20	MCS0	2	1	2412	0.25	0.25	14.47	14.94	17.73
HT20	MCS0	2	6	2437	0.25	0.25	17.29	18.28	20.83
HT20	MCS0	2	10	2457	0.25	0.25	18.27	19.31	21.83
HT20	MCS0	2	11	2462	0.25	0.25	13.26	14.56	16.97
HT40	MCS0	2	3	2422	0.50	0.47	10.65	11.07	13.88
HT40	MCS0	2	4	2427	0.50	0.47	12.25	13.45	15.90
HT40	MCS0	2	5	2432	0.50	0.47	12.18	13.62	15.97
HT40	MCS0	2	6	2437	0.50	0.47	12.62	13.28	15.98
HT40	MCS0	2	7	2442	0.50	0.47	12.15	14.09	16.24
HT40	MCS0	2	8	2447	0.50	0.47	11.86	12.95	15.45
HT40	MCS0	2	9	2452	0.50	0.47	9.67	10.32	13.02
VHT20	MCS0	2	1	2412	0.25	0.27	14.72	15.12	17.94
VHT20	MCS0	2	6	2437	0.25	0.27	17.51	18.30	20.93
VHT20	MCS0	2	10	2442	0.25	0.27	18.69	19.38	22.06
VHT20	MCS0	2	11	2462	0.25	0.27	13.40	14.59	17.05
VHT40	MCS0	2	3	2422	0.47	0.47	10.72	11.10	13.93
VHT40	MCS0	2	4	2427	0.47	0.47	12.29	13.53	15.97
VHT40	MCS0	2	5	2432	0.47	0.47	12.25	13.49	15.93
VHT40	MCS0	2	6	2437	0.47	0.47	12.65	13.53	16.13
VHT40	MCS0	2	7	2442	0.47	0.47	12.19	14.02	16.21
VHT40	MCS0	2	8	2437	0.47	0.47	11.98	13.08	15.58
VHT40	MCS0	2	9	2452	0.47	0.47	9.72	10.54	13.16

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

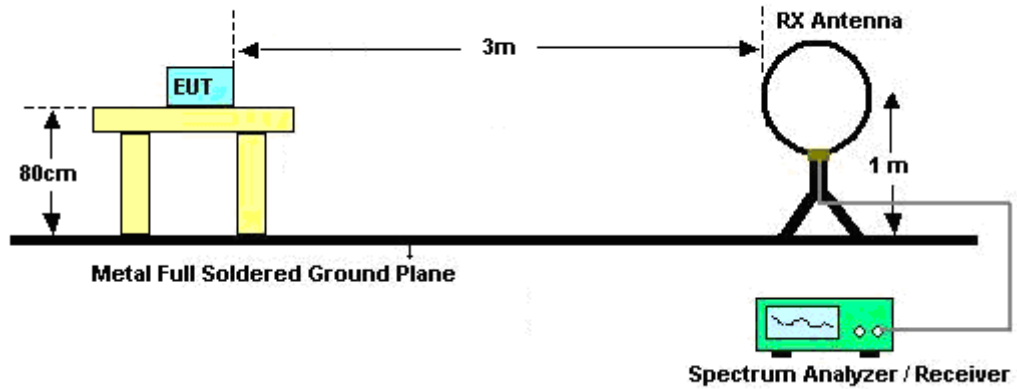
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

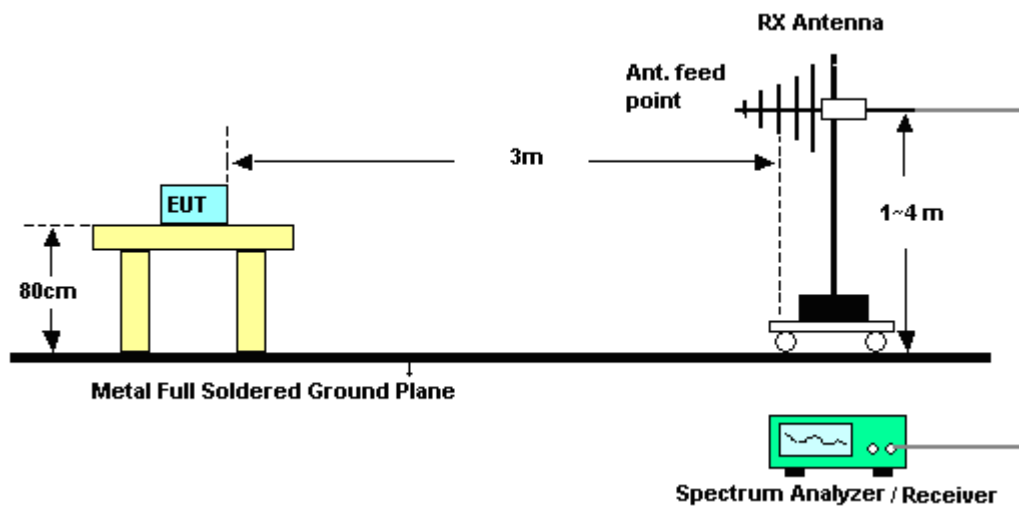
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

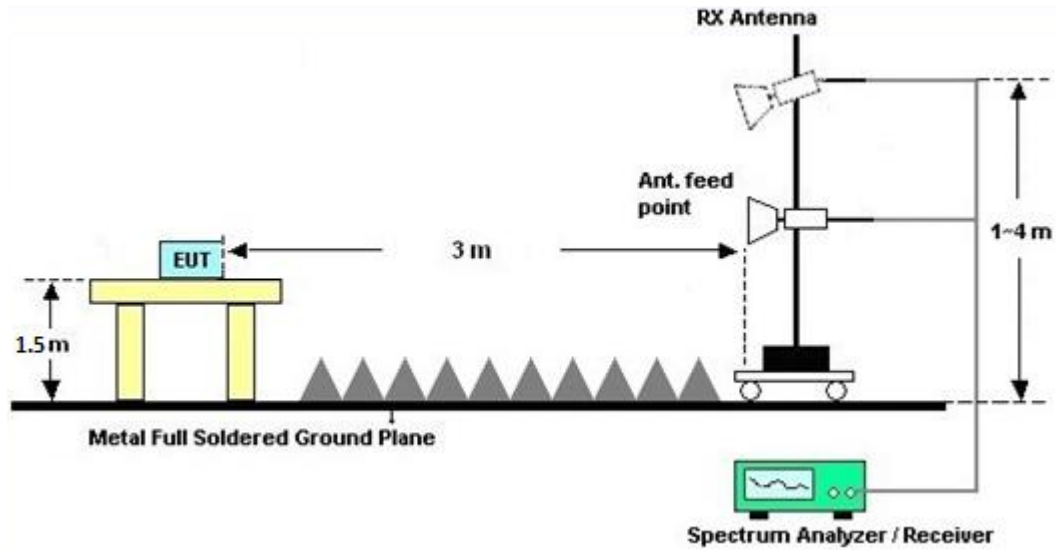
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.

3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the Antenna exceeds 6 dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-5.75	-2.43	-2.43	-0.92	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Mar. 22, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Mar. 22, 2017	Jan. 19, 2018	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 22, 2016	Mar. 06, 2017	Apr. 21, 2017	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Mar. 06, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 16, 2016	Mar. 06, 2017	Apr. 15, 2017	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Mar. 06, 2017	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 09, 2016	Mar. 06, 2017	Aug. 08, 2017	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Mar. 06, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 06, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7dB
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Appendix A. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2385.92	52	-22	74	56.55	27	5.47	37.02	337	145	P	H
		2388.78	41.67	-12.33	54	46.22	27	5.47	37.02	337	145	A	H
	*	2412	107.75	-	-	112.15	27.13	5.47	37	337	145	P	H
	*	2410	103.58	-	-	107.98	27.13	5.47	37	337	145	A	H
		2387.87	54.27	-19.73	74	58.82	27	5.47	37.02	363	154	P	V
		2388.91	43.93	-10.07	54	48.48	27	5.47	37.02	363	154	A	V
	*	2414	110.18	-	-	114.58	27.13	5.47	37	363	154	P	V
	*	2414	105.93	-	-	110.33	27.13	5.47	37	363	154	A	V
802.11b CH 06 2437MHz		2388.26	50.85	-23.15	74	55.4	27	5.47	37.02	334	148	P	H
		2389.17	39.91	-14.09	54	44.46	27	5.47	37.02	334	148	A	H
	*	2438	108.75	-	-	112.84	27.39	5.49	36.97	334	148	P	H
	*	2438	105.11	-	-	109.2	27.39	5.49	36.97	334	148	A	H
		2484.7	52.53	-21.47	74	56.32	27.64	5.51	36.94	334	148	P	H
		2484.7	41.03	-12.97	54	44.82	27.64	5.51	36.94	334	148	A	H
		2389.82	51.83	-22.17	74	56.38	27	5.47	37.02	363	154	P	V
		2389.17	41.24	-12.76	54	45.79	27	5.47	37.02	363	154	A	V
	*	2438	110.94	-	-	115.03	27.39	5.49	36.97	363	154	P	V
	*	2438	107.72	-	-	111.81	27.39	5.49	36.97	363	154	A	V
		2485.72	52.82	-21.18	74	56.61	27.64	5.51	36.94	363	154	P	V
		2484.88	42.8	-11.2	54	46.59	27.64	5.51	36.94	363	154	A	V



802.11b CH 11 2462MHz	*	2462	106.16	-	-	110.11	27.51	5.5	36.96	364	157	P	H
	*	2462	102.01	-	-	105.96	27.51	5.5	36.96	364	157	A	H
		2483.98	54.38	-19.62	74	58.17	27.64	5.51	36.94	364	157	P	H
		2484.58	42.68	-11.32	54	46.47	27.64	5.51	36.94	364	157	A	H
	*	2462	109.27	-	-	113.22	27.51	5.5	36.96	397	153	P	V
	*	2464	106	-	-	109.95	27.51	5.5	36.96	397	153	A	V
		2489.2	56.65	-17.35	74	60.29	27.77	5.52	36.93	397	153	P	V
		2483.62	45.64	-8.36	54	49.43	27.64	5.51	36.94	397	153	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b		4824	46.71	-27.29	74	44.16	31.51	7.72	36.68	100	360	P	H
CH 01		4824	52.96	-21.04	74	50.41	31.51	7.72	36.68	100	360	P	V
2412MHz		4824	44.55	-9.45	54	42	31.51	7.72	36.68	100	360	A	V
802.11b		4872	45.24	-28.76	74	42.55	31.59	7.76	36.66	100	360	P	H
CH 06		7308	45.42	-28.58	74	38.32	34.03	9.76	36.69	100	360	P	H
2437MHz		4872	49.01	-24.99	74	46.32	31.59	7.76	36.66	100	360	P	V
		7308	45.9	-28.1	74	38.8	34.03	9.76	36.69	100	360	P	V
802.11b		4926	45.07	-28.93	74	42.25	31.67	7.8	36.65	100	360	P	H
CH 11		7386	45.16	-28.84	74	37.79	34.29	9.86	36.78	100	360	P	H
2462MHz		4926	47.61	-26.39	74	44.79	31.67	7.8	36.65	100	360	P	V
		7386	45.46	-28.54	74	38.09	34.29	9.86	36.78	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.82	56.93	-17.07	74	61.48	27	5.47	37.02	317	110	P	H
		2389.95	46.84	-7.16	54	51.39	27	5.47	37.02	317	110	A	H
	*	2414	106.57	-	-	110.97	27.13	5.47	37	317	110	P	H
	*	2414	98.48	-	-	102.88	27.13	5.47	37	317	110	A	H
		2389.69	61.08	-12.92	74	65.63	27	5.47	37.02	366	154	P	V
		2389.95	49.43	-4.57	54	53.98	27	5.47	37.02	366	154	A	V
	*	2414	109.78	-	-	114.18	27.13	5.47	37	366	154	P	V
	*	2414	101.63	-	-	106.03	27.13	5.47	37	366	154	A	V
802.11g CH 06 2437MHz		2384.23	51.03	-22.97	74	55.65	26.95	5.45	37.02	334	146	P	H
		2389.56	40.74	-13.26	54	45.29	27	5.47	37.02	334	146	A	H
	*	2436	109.57	-	-	113.82	27.26	5.48	36.99	334	146	P	H
	*	2440	102.14	-	-	106.23	27.39	5.49	36.97	334	146	A	H
		2487.22	52.12	-21.88	74	55.91	27.64	5.51	36.94	334	146	P	H
		2484.52	42.09	-11.91	54	45.88	27.64	5.51	36.94	334	146	A	H
		2388	52.74	-21.26	74	57.29	27	5.47	37.02	355	151	P	V
		2389.04	42.07	-11.93	54	46.62	27	5.47	37.02	355	151	A	V
	*	2440	112.63	-	-	116.72	27.39	5.49	36.97	355	151	P	V
	*	2440	104.94	-	-	109.03	27.39	5.49	36.97	355	151	A	V
		2485	54.44	-19.56	74	58.23	27.64	5.51	36.94	355	151	P	V
		2485.06	44.54	-9.46	54	48.33	27.64	5.51	36.94	355	151	A	V



802.11g CH 11 2462MHz	*	2464	105.02	-	-	108.97	27.51	5.5	36.96	351	102	P	H
	*	2464	96.9	-	-	100.85	27.51	5.5	36.96	351	102	A	H
		2484.16	55.29	-18.71	74	59.08	27.64	5.51	36.94	351	102	P	H
		2483.86	45.22	-8.78	54	49.01	27.64	5.51	36.94	351	102	A	H
	*	2460	107.77	-	-	111.72	27.51	5.5	36.96	400	152	P	V
	*	2460	100.12	-	-	104.07	27.51	5.5	36.96	400	152	A	V
		2484.16	58.29	-15.71	74	62.08	27.64	5.51	36.94	400	152	P	V
		2483.51	47.58	-6.42	54	51.37	27.64	5.51	36.94	400	152	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	42.6	-31.4	74	40.05	31.51	7.72	36.68	200	360	P	H
		4824	44.19	-29.81	74	41.64	31.51	7.72	36.68	200	0	P	V
802.11g CH 06 2437MHz		4872	43.37	-30.63	74	40.68	31.59	7.76	36.66	200	360	P	H
		7311	45.7	-28.3	74	38.6	34.03	9.76	36.69	200	360	P	H
		4872	44.92	-29.08	74	42.23	31.59	7.76	36.66	200	360	P	V
		7311	45.94	-28.06	74	38.84	34.03	9.76	36.69	200	360	P	V
802.11g CH 11 2462MHz		4926	42.84	-31.16	74	40.02	31.67	7.8	36.65	200	0	P	H
		7386	46.61	-27.39	74	39.24	34.29	9.86	36.78	200	0	P	H
		4926	43.59	-30.41	74	40.77	31.67	7.8	36.65	200	0	P	V
		7386	46.75	-27.25	74	39.38	34.29	9.86	36.78	200	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 01 2412MHz		2389.95	57.68	-16.32	74	62.23	27	5.47	37.02	161	113	P	H
		2389.95	46.28	-7.72	54	50.83	27	5.47	37.02	161	113	A	H
	*	2414	106.23	-	-	110.63	27.13	5.47	37	161	113	P	H
	*	2414	98.33	-	-	102.73	27.13	5.47	37	161	113	A	H
		2389.82	60.55	-13.45	74	65.1	27	5.47	37.02	321	154	P	V
		2389.95	50.62	-3.38	54	55.17	27	5.47	37.02	321	154	A	V
	*	2412	109.34	-	-	113.74	27.13	5.47	37	321	154	P	V
	*	2410	101.53	-	-	105.93	27.13	5.47	37	321	154	A	V
802.11ac VHT20 CH 06 2437MHz		2380.46	51.09	-22.91	74	55.71	26.95	5.45	37.02	309	107	P	H
		2389.17	41.29	-12.71	54	45.84	27	5.47	37.02	309	107	A	H
	*	2438	110.07	-	-	114.16	27.39	5.49	36.97	309	107	P	H
	*	2438	102.22	-	-	106.31	27.39	5.49	36.97	309	107	A	H
		2490.16	53.89	-20.11	74	57.53	27.77	5.52	36.93	309	107	P	H
		2485.18	42.91	-11.09	54	46.7	27.64	5.51	36.94	309	107	A	H
		2389.69	52.75	-21.25	74	57.3	27	5.47	37.02	314	153	P	V
		2389.04	42.95	-11.05	54	47.5	27	5.47	37.02	314	153	A	V
	*	2438	113	-	-	117.09	27.39	5.49	36.97	314	153	P	V
	*	2438	105.44	-	-	109.53	27.39	5.49	36.97	314	153	A	V
		2484.82	54.22	-19.78	74	58.01	27.64	5.51	36.94	314	153	P	V
		2484.88	44.84	-9.16	54	48.63	27.64	5.51	36.94	314	153	A	V



802.11ac VHT20 CH 11 2462MHz	*	2464	105.37	-	-	109.32	27.51	5.5	36.96	310	106	P	H
	*	2464	97.49	-	-	101.44	27.51	5.5	36.96	310	106	A	H
		2483.56	56.88	-17.12	74	60.67	27.64	5.51	36.94	310	106	P	H
		2483.62	46.13	-7.87	54	49.92	27.64	5.51	36.94	310	106	A	H
	*	2460	109.57	-	-	113.52	27.51	5.5	36.96	347	154	P	V
	*	2460	101.44	-	-	105.39	27.51	5.5	36.96	347	154	A	V
		2484.46	60.25	-13.75	74	64.04	27.64	5.51	36.94	347	154	P	V
		2483.56	49.96	-4.04	54	53.75	27.64	5.51	36.94	347	154	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		4824	43.37	-30.63	74	40.82	31.51	7.72	36.68	200	0	P	H
CH 01 2412MHz		4824	44.16	-29.84	74	41.61	31.51	7.72	36.68	200	360	P	V
802.11ac VHT20		4872	42.77	-31.23	74	40.08	31.59	7.76	36.66	200	0	P	H
CH 06 2437MHz		7311	46.09	-27.91	74	38.99	34.03	9.76	36.69	200	0	P	H
		4872	44.66	-29.34	74	41.97	31.59	7.76	36.66	200	360	P	V
		7311	46.92	-27.08	74	39.82	34.03	9.76	36.69	200	360	P	V
802.11ac VHT20		4926	42.78	-31.22	74	39.96	31.67	7.8	36.65	200	0	P	H
CH 11 2462MHz		7386	46.4	-27.6	74	39.03	34.29	9.86	36.78	200	0	P	H
		4926	45.53	-28.47	74	42.71	31.67	7.8	36.65	200	360	P	V
		7386	45.8	-28.2	74	38.43	34.29	9.86	36.78	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 03 2422MHz		2382.67	62.74	-11.26	74	67.36	26.95	5.45	37.02	100	112	P	H
		2389.3	46.45	-7.55	54	51	27	5.47	37.02	100	112	A	H
	*	2432	100.51	-	-	104.76	27.26	5.48	36.99	100	112	P	H
	*	2432	92.59	-	-	96.84	27.26	5.48	36.99	100	112	A	H
		2484.94	57.77	-16.23	74	61.56	27.64	5.51	36.94	100	112	P	H
		2483.92	43.92	-10.08	54	47.71	27.64	5.51	36.94	100	112	A	H
		2387.09	64.75	-9.25	74	69.3	27	5.47	37.02	322	155	P	V
		2389.3	48.96	-5.04	54	53.51	27	5.47	37.02	322	155	A	V
	*	2432	104.1	-	-	108.35	27.26	5.48	36.99	322	155	P	V
	*	2430	96.25	-	-	100.5	27.26	5.48	36.99	322	155	A	V
		2484.28	59.14	-14.86	74	62.93	27.64	5.51	36.94	322	155	P	V
		2484.7	45.44	-8.56	54	49.23	27.64	5.51	36.94	322	155	A	V
802.11ac VHT40 CH 06 2437MHz		2389.04	60.49	-13.51	74	65.04	27	5.47	37.02	385	146	P	H
		2388.91	44.92	-9.08	54	49.47	27	5.47	37.02	385	146	A	H
	*	2440	102.89	-	-	106.98	27.39	5.49	36.97	385	146	P	H
	*	2440	95.02	-	-	99.11	27.39	5.49	36.97	385	146	A	H
		2484.1	58.18	-15.82	74	61.97	27.64	5.51	36.94	385	146	P	H
		2484.88	44.54	-9.46	54	48.33	27.64	5.51	36.94	385	146	A	H
		2388.52	64.02	-9.98	74	68.57	27	5.47	37.02	312	154	P	V
		2389.04	47.37	-6.63	54	51.92	27	5.47	37.02	312	154	A	V
	*	2440	105.58	-	-	109.67	27.39	5.49	36.97	312	154	P	V
	*	2436	97.65	-	-	101.9	27.26	5.48	36.99	312	154	A	V
		2487.34	65.57	-8.43	74	69.36	27.64	5.51	36.94	312	154	P	V
		2485.06	50.62	-3.38	54	54.41	27.64	5.51	36.94	312	154	A	V



802.11ac VHT40 CH 09 2452MHz		2382.41	56.89	-17.11	74	61.51	26.95	5.45	37.02	279	107	P	H
		2388	42.52	-11.48	54	47.07	27	5.47	37.02	279	107	A	H
	*	2444	98.93	-	-	103.02	27.39	5.49	36.97	279	107	P	H
	*	2444	91.5	-	-	95.59	27.39	5.49	36.97	279	107	A	H
		2485.48	62.27	-11.73	74	66.06	27.64	5.51	36.94	279	107	P	H
		2483.74	46.46	-7.54	54	50.25	27.64	5.51	36.94	279	107	A	H
		2388.13	59.94	-14.06	74	64.49	27	5.47	37.02	342	154	P	V
		2386.96	44.1	-9.9	54	48.65	27	5.47	37.02	342	154	A	V
	*	2462	101.97	-	-	105.92	27.51	5.5	36.96	342	154	P	V
	*	2460	94.14	-	-	98.09	27.51	5.5	36.96	342	154	A	V
		2485.12	66.18	-7.82	74	69.97	27.64	5.51	36.94	342	154	P	V
		2485.54	49.9	-4.1	54	53.69	27.64	5.51	36.94	342	154	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		4842	42.7	-31.3	74	40.11	31.53	7.74	36.68	200	0	P	H
VHT40		7266	46.39	-27.61	74	39.4	33.93	9.72	36.66	200	0	P	H
CH 03		4844	42.46	-31.54	74	39.87	31.53	7.74	36.68	200	0	P	V
2422MHz		7266	46.16	-27.84	74	39.17	33.93	9.72	36.66	200	0	P	V
802.11ac		4872	43.29	-30.71	74	40.6	31.59	7.76	36.66	200	360	P	H
VHT40		7311	47.03	-26.97	74	39.93	34.03	9.76	36.69	200	360	P	H
CH 06		4874	43.31	-30.69	74	40.62	31.59	7.76	36.66	200	0	P	V
2437MHz		7308	45.9	-28.1	74	38.8	34.03	9.76	36.69	200	0	P	V
802.11ac		4902	43.02	-30.98	74	40.25	31.64	7.78	36.65	200	360	P	H
VHT40		7356	46.54	-27.46	74	39.28	34.19	9.82	36.75	200	360	P	H
CH 09		4904	43.65	-30.35	74	40.88	31.64	7.78	36.65	200	360	P	V
2452MHz		7356	45.74	-28.26	74	38.48	34.19	9.82	36.75	200	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 10 2457MHz	*	2454	109.99	-	-	113.94	27.51	5.5	36.96	323	107	P	H
	*	2460	102.35	-	-	106.3	27.51	5.5	36.96	323	107	A	H
		2484.94	58.23	-15.77	74	62.02	27.64	5.51	36.94	323	107	P	H
		2483.5	46.72	-7.28	54	50.51	27.64	5.51	36.94	323	107	A	H
	*	2460	113.19	-	-	117.14	27.51	5.5	36.96	349	156	P	V
	*	2460	105.39	-	-	109.34	27.51	5.5	36.96	349	156	A	V
		2484.76	63.11	-10.89	74	66.9	27.64	5.51	36.94	349	156	P	V
		2484.04	50.69	-3.31	54	54.48	27.64	5.51	36.94	349	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH10 2457MHz		4914	43.05	-30.95	74	40.28	31.64	7.78	36.65	100	360	P	H
		7371	45.4	-28.6	74	38.08	34.24	9.84	36.76	100	360	P	H
		4914	44.91	-29.09	74	42.14	31.64	7.78	36.65	100	360	P	V
		7371	45.83	-28.17	74	38.51	34.24	9.84	36.76	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 10 2457MHz	*	2458	110.34	-	-	114.29	27.51	5.5	36.96	315	109	P	H
	*	2456	102.28	-	-	106.23	27.51	5.5	36.96	315	109	A	H
		2483.8	56.71	-17.29	74	60.5	27.64	5.51	36.94	315	109	P	H
		2483.5	46.53	-7.47	54	50.32	27.64	5.51	36.94	315	109	A	H
	*	2456	112.95	-	-	116.9	27.51	5.5	36.96	350	153	P	V
	*	2456	105.23	-	-	109.18	27.51	5.5	36.96	350	153	A	V
		2485.42	61.23	-12.77	74	65.02	27.64	5.51	36.94	350	153	P	V
		2483.5	50.2	-3.8	54	53.99	27.64	5.51	36.94	350	153	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 10 2457MHz		4914	43.49	-30.51	74	40.72	31.64	7.78	36.65	100	360	P	H
		7368	45.93	-28.07	74	38.61	34.24	9.84	36.76	100	360	P	H
		4914	46.55	-27.45	74	43.78	31.64	7.78	36.65	100	360	P	V
		7368	45.69	-28.31	74	38.37	34.24	9.84	36.76	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11g LF		34.85	32.06	-7.94	40	37.2	25.5	0.71	31.35	-	-	P	H
		194.9	35.1	-8.4	43.5	48.89	16.01	1.7	31.5	-	-	P	H
		287.05	34.95	-11.05	46	45.79	18.52	2.03	31.39	-	-	P	H
		309.36	36.74	-9.26	46	46.46	19.45	2.17	31.34	-	-	P	H
		601.33	30.46	-15.54	46	34.59	24.52	3.07	31.72	-	-	P	H
		704.15	38.4	-7.6	46	39.43	26.67	3.35	31.05	100	12	P	H
		31.94	36.02	-3.98	40	40.12	26.52	0.68	31.3	100	360	P	V
		365.62	34.03	-11.97	46	41.03	21.88	2.35	31.23	-	-	P	V
		504.33	32.27	-13.73	46	37.26	23.45	2.81	31.25	-	-	P	V
		647.89	30.85	-15.15	46	33.14	25.65	3.2	31.14	-	-	P	V
		708.03	31.37	-14.63	46	32.35	26.72	3.36	31.06	-	-	P	V
		906.88	35.22	-10.78	46	33.56	28.63	3.87	30.84	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix B. Radiated Spurious Emission Plots

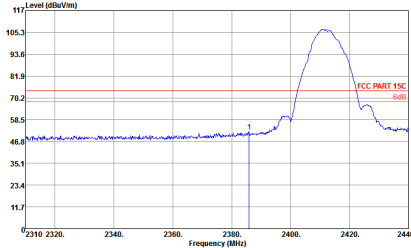
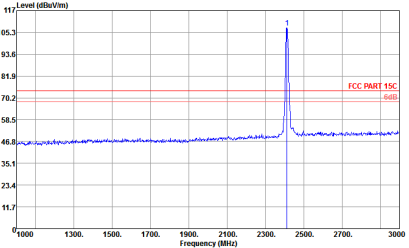
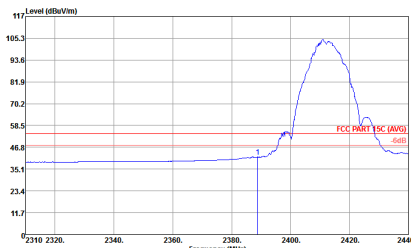
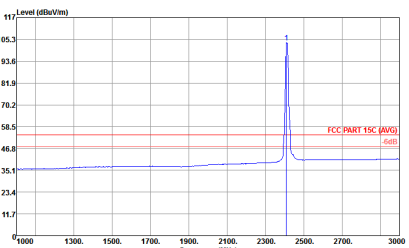
Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz

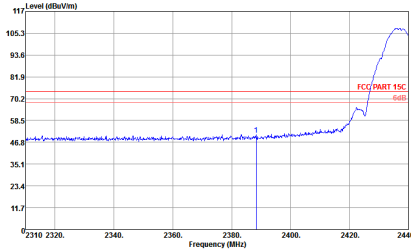
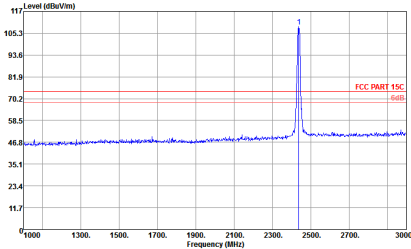
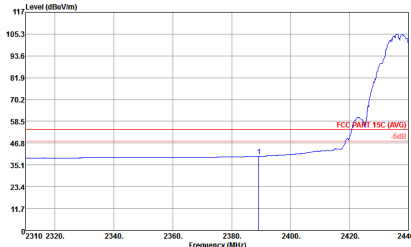
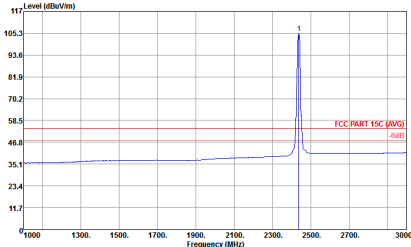
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																			
ANT	802.11b CH01 2412MHz																																																																			
1+2	Horizontal	Fundamental																																																																		
Peak	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VSW:3.000.000Hz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 2385.92</td><td>52.00</td><td>-22.00</td><td>74.00</td><td>56.55</td><td>27.00</td><td>5.47</td><td>37.02</td><td>337</td><td>145 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 2385.92	52.00	-22.00	74.00	56.55	27.00	5.47	37.02	337	145 Peak	HORIZONTAL	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VSW:3.000.000Hz SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1 * 2412.00</td><td>107.75</td><td>33.75</td><td>74.00</td><td>112.15</td><td>27.13</td><td>5.47</td><td>37.00</td><td>337</td><td>145 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 * 2412.00	107.75	33.75	74.00	112.15	27.13	5.47	37.00	337	145 Peak	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																									
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MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																																												
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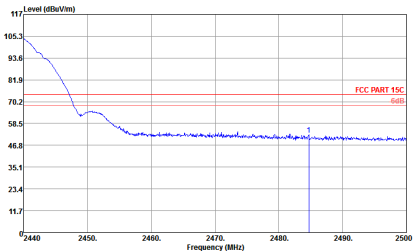
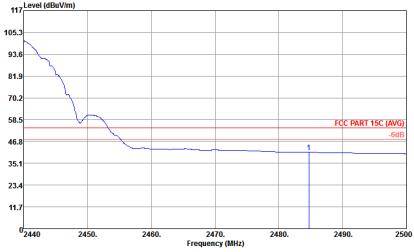


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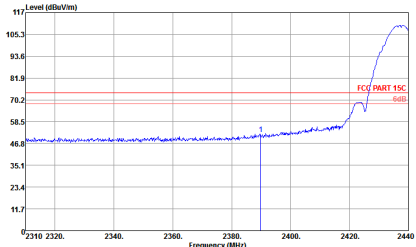
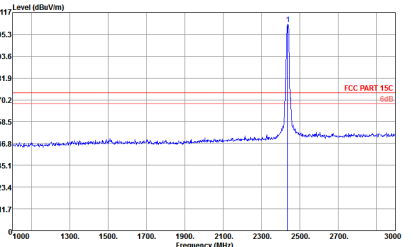
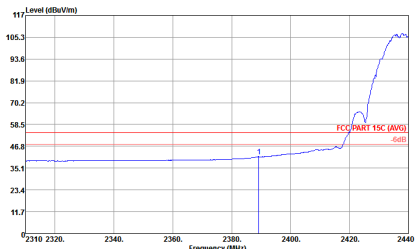
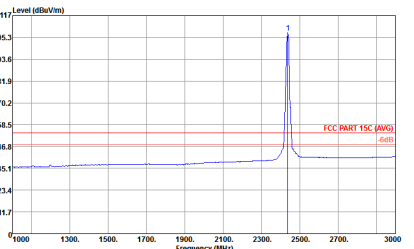


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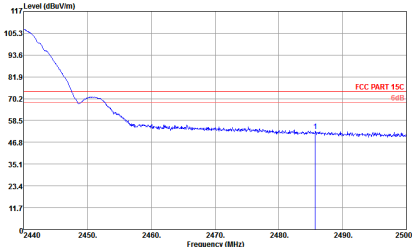
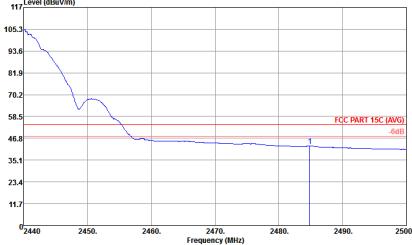


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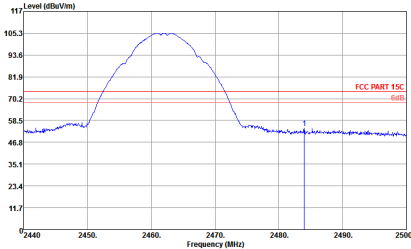
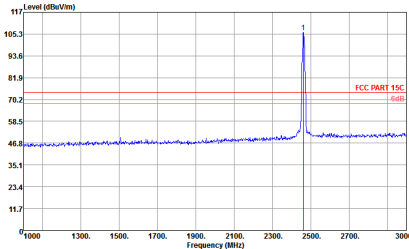
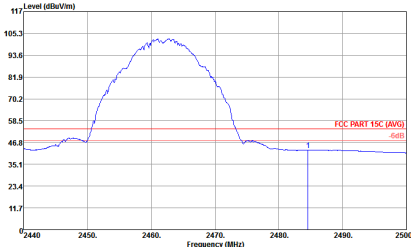
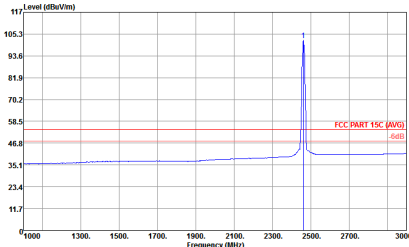


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Peak	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : RSW:1000.0000KHz VSW:0.0000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.82</td><td>51.83</td><td>-22.17</td><td>74.00</td><td>56.38</td><td>27.00</td><td>5.47</td><td>37.02</td><td>363</td><td>154 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	2389.82	51.83	-22.17	74.00	56.38	27.00	5.47	37.02	363	154 Peak	VERTICAL	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : RSW:1000.0000KHz VSW:0.0000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2438.00</td><td>118.94</td><td>36.94</td><td>74.00</td><td>115.83</td><td>27.39</td><td>5.49</td><td>36.97</td><td>363</td><td>154 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	2438.00	118.94	36.94	74.00	115.83	27.39	5.49	36.97	363	154 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																											
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																											
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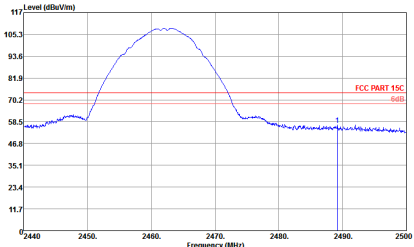
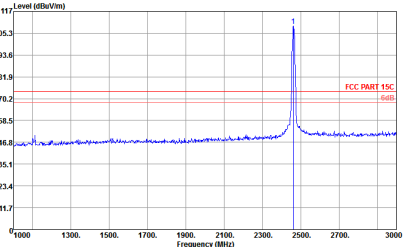
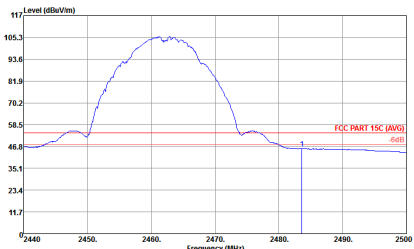
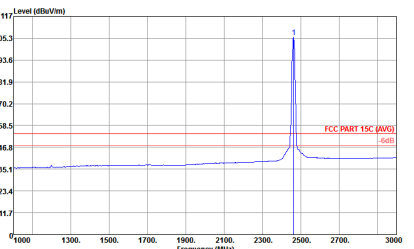


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																										
ANT	802.11b CH06 2437MHz - R																																										
1+2	Vertical					Fundamental																																					
Peak	 Site : 83CH83-KS Condition : FCC PART 15C 3e HP ANT-2015813-91280 VERTICAL RSM:1000.000000Hz VSW:0.000000 SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2485.72</td><td>52.82</td><td>-21.18</td><td>74.00</td><td>56.61</td><td>27.64</td><td>5.51</td><td>36.94</td><td>363</td><td>154 Peak VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2485.72	52.82	-21.18	74.00	56.61	27.64	5.51	36.94	363	154 Peak VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																
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1	2485.72	52.82	-21.18	74.00	56.61	27.64	5.51	36.94	363	154 Peak VERTICAL																																	
Avg.	 Site : 83CH83-KS Condition : FCC PART 15C (AVG) 3e HP ANT-2015813-91280 VERTICAL RSM:1000.000000Hz VSW:0.010000 SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2484.88</td><td>42.00</td><td>-11.20</td><td>54.00</td><td>46.59</td><td>27.64</td><td>5.51</td><td>36.94</td><td>363</td><td>154 Average VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2484.88	42.00	-11.20	54.00	46.59	27.64	5.51	36.94	363	154 Average VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																												
ANT	802.11b CH11 2462MHz																																												
1+2	Horizontal																																												
Peak	 Site Condition : 83CH3-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RSM:1000.000KHz VSW:3.000.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.98</td><td>54.38</td><td>-19.62</td><td>74.00</td><td>58.17</td><td>27.64</td><td>5.51</td><td>36.94</td><td>364</td><td>157 Peak</td><td>HORIZONTAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2483.98	54.38	-19.62	74.00	58.17	27.64	5.51	36.94	364	157 Peak	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
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1	2483.98	54.38	-19.62	74.00	58.17	27.64	5.51	36.94	364	157 Peak	HORIZONTAL																																		
Fundamental	 Site Condition : 83CH3-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RSM:1000.000KHz VSW:3.000.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2462.00</td><td>186.16</td><td>32.16</td><td>74.00</td><td>118.11</td><td>27.51</td><td>5.58</td><td>36.96</td><td>364</td><td>157 Peak</td><td>HORIZONTAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2462.00	186.16	32.16	74.00	118.11	27.51	5.58	36.96	364	157 Peak	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																					
1	2462.00	186.16	32.16	74.00	118.11	27.51	5.58	36.96	364	157 Peak	HORIZONTAL																																		
Avg.	 Site Condition : 83CH3-KS : FCC PART 15C (AVG) 3m HF ANT-2015813-91280 HORIZONTAL : RSM:1000.000KHz VSW:3.010KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2484.58</td><td>42.68</td><td>-11.32</td><td>54.00</td><td>46.47</td><td>27.64</td><td>5.51</td><td>36.94</td><td>364</td><td>157 Average</td><td>HORIZONTAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2484.58	42.68	-11.32	54.00	46.47	27.64	5.51	36.94	364	157 Average	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																					
1	2484.58	42.68	-11.32	54.00	46.47	27.64	5.51	36.94	364	157 Average	HORIZONTAL																																		
	 Site Condition : 83CH3-KS : FCC PART 15C (AVG) 3m HF ANT-2015813-91280 HORIZONTAL : RSM:1000.000KHz VSW:3.010KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2462.00</td><td>182.01</td><td>48.01</td><td>54.00</td><td>185.96</td><td>27.51</td><td>5.58</td><td>36.96</td><td>364</td><td>157 Average</td><td>HORIZONTAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2462.00	182.01	48.01	54.00	185.96	27.51	5.58	36.96	364	157 Average	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																				
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																				
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	dB	cm	deg																																																																						
1	2483.62	45.64	-8.36	54.00	49.43	27.64	5.51	36.94	397	153 Average	VERTICAL																																																																				
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																					
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	dB	dB	cm	deg																																																																					
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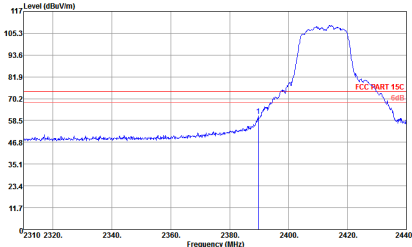
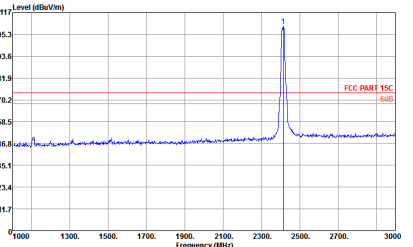
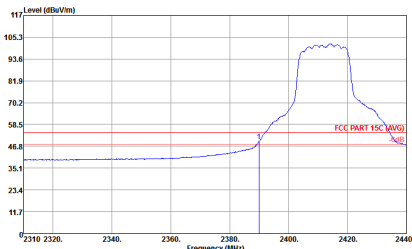
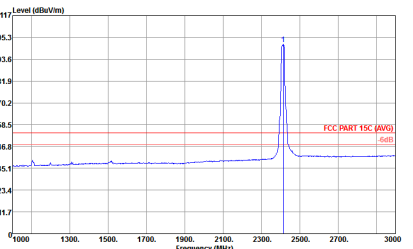


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																			
ANT	802.11g CH01 2412MHz																																																																			
1+2	Horizontal	Fundamental																																																																		
Peak	Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.82</td><td>56.93</td><td>-17.87</td><td>74.00</td><td>61.48</td><td>27.00</td><td>5.47</td><td>37.02</td><td>317</td><td>110 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	dB	cm	deg			1	2389.82	56.93	-17.87	74.00	61.48	27.00	5.47	37.02	317	110 Peak	Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2414.00</td><td>186.57</td><td>32.57</td><td>74.00</td><td>110.97</td><td>27.13</td><td>5.47</td><td>37.00</td><td>317</td><td>110 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	dB	cm	deg			1	2414.00	186.57	32.57	74.00	110.97	27.13	5.47	37.00	317	110 Peak
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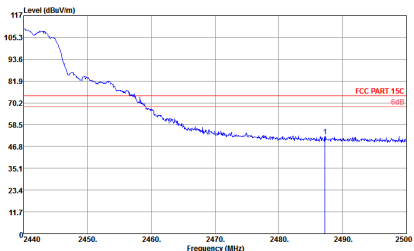
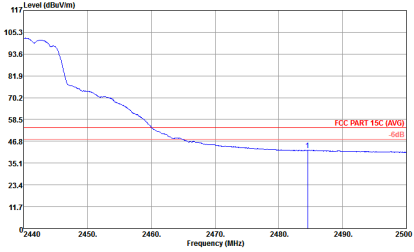


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																													
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1+2	Vertical					Fundamental																																																																								
Peak	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : BW:1000.000MHz VSW:1.000MHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.69</td><td>61.08</td><td>-12.92</td><td>74.00</td><td>65.63</td><td>27.00</td><td>5.47</td><td>37.02</td><td>366</td><td>154 Peak</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2389.69	61.08	-12.92	74.00	65.63	27.00	5.47	37.02	366	154 Peak	VERTICAL	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : BW:1000.000MHz VSW:1.000MHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2414.00</td><td>189.78</td><td>35.78</td><td>74.00</td><td>114.18</td><td>27.13</td><td>5.47</td><td>37.00</td><td>366</td><td>154 Peak</td><td>VERTICAL</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2414.00	189.78	35.78	74.00	114.18	27.13	5.47	37.00	366	154 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																			
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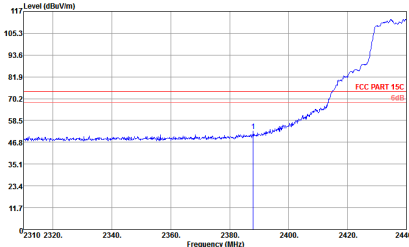
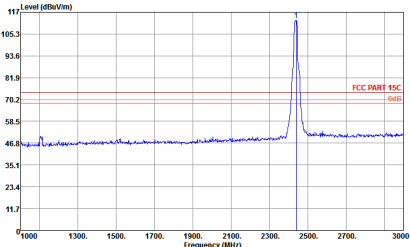
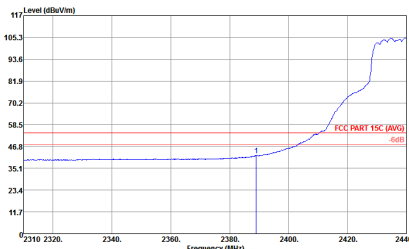
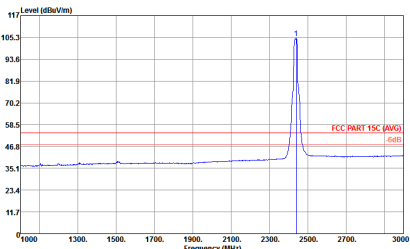


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m									
ANT	802.11g CH06 2437MHz - L									
1+2	Horizontal					Fundamental				
Peak	</									

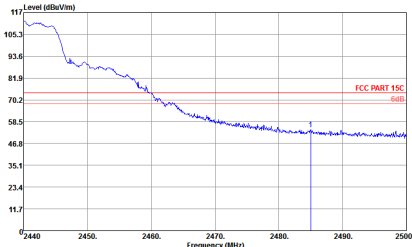
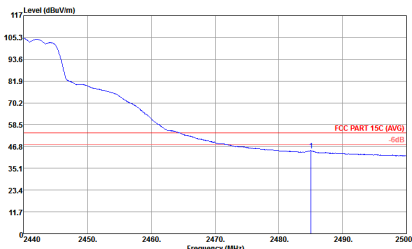


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																											
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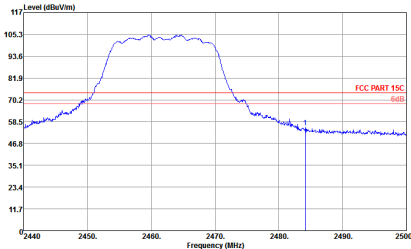
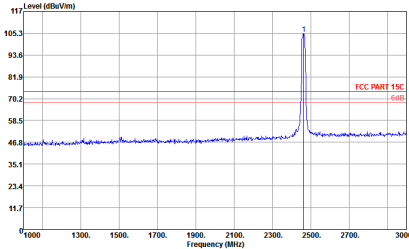
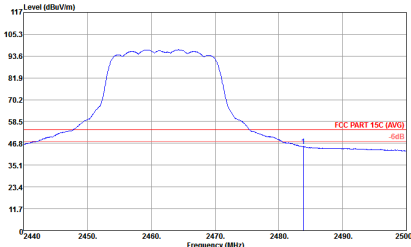
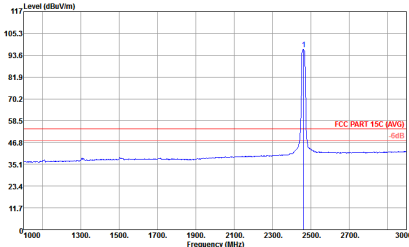


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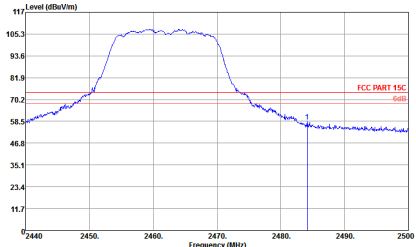
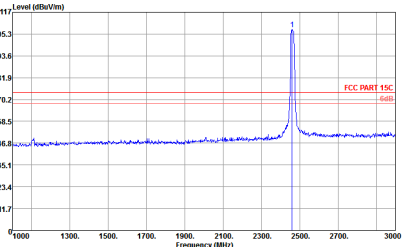
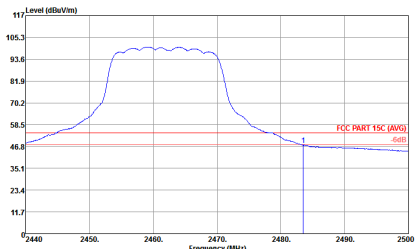
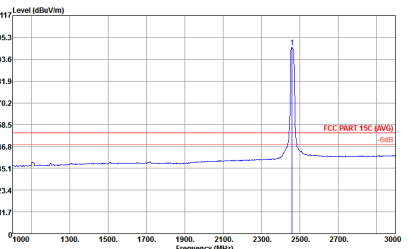


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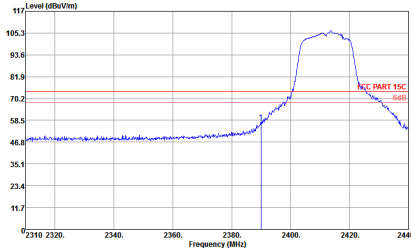
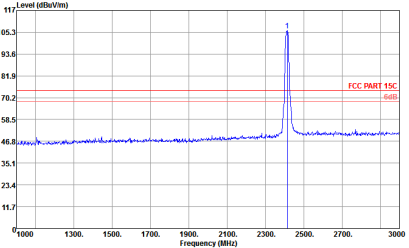
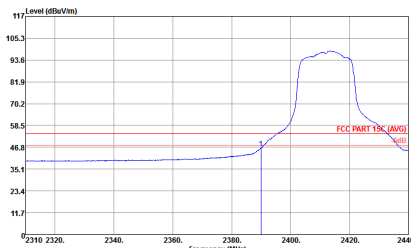
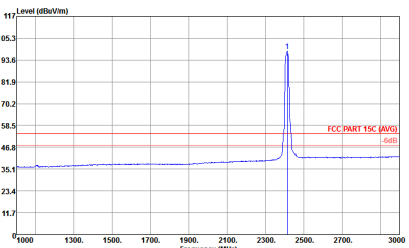


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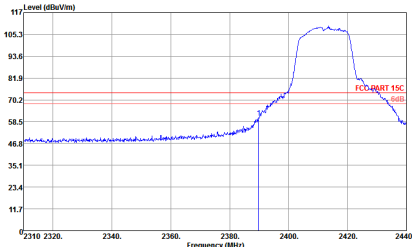
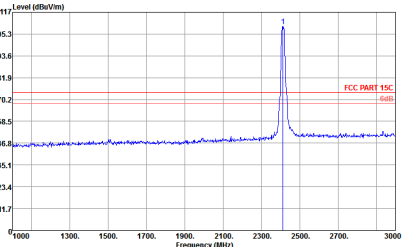
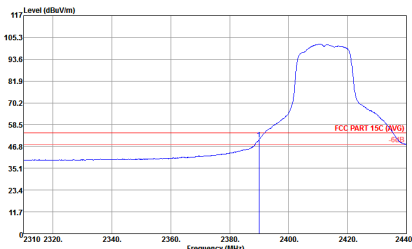
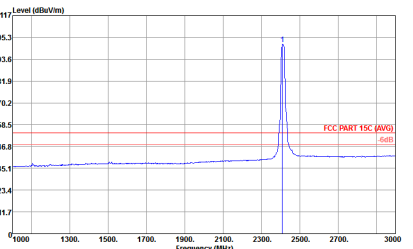


2.4GHz 2400~2483.5MHz

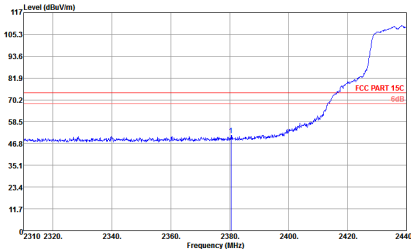
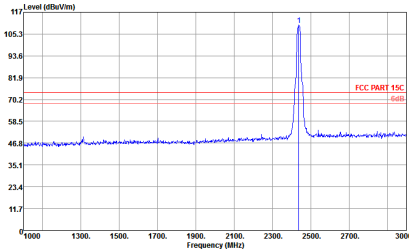
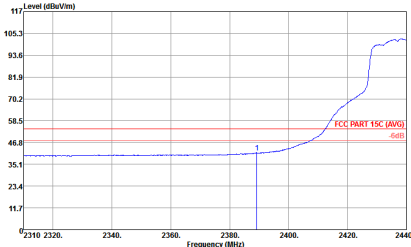
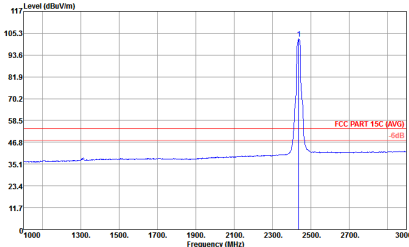
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																					
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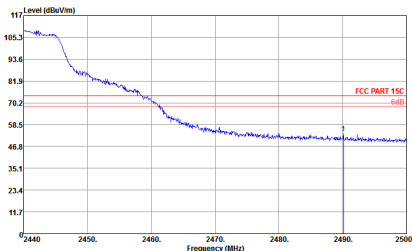
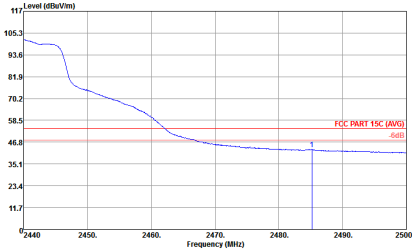


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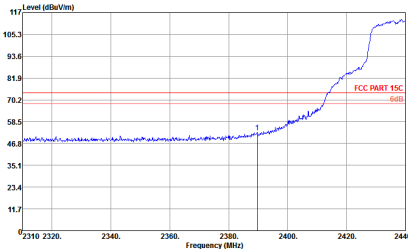
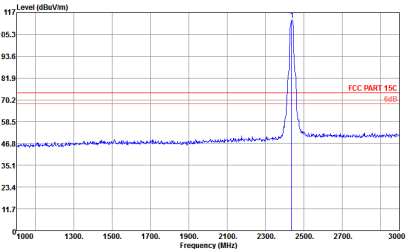
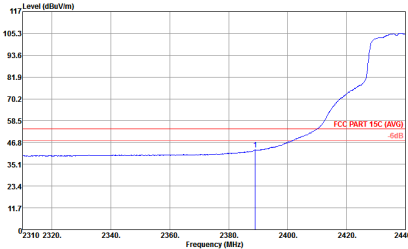
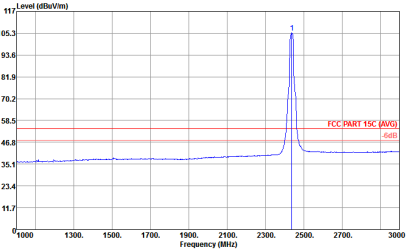


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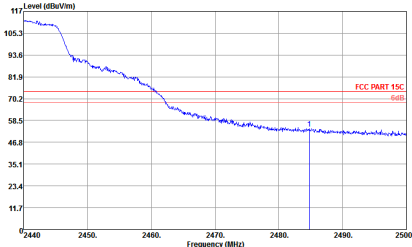
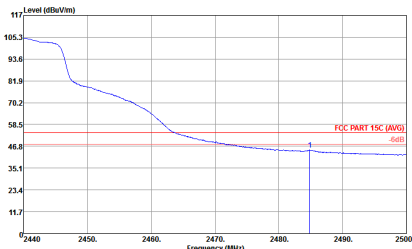


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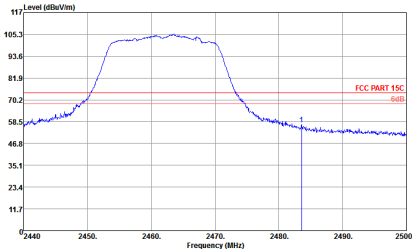
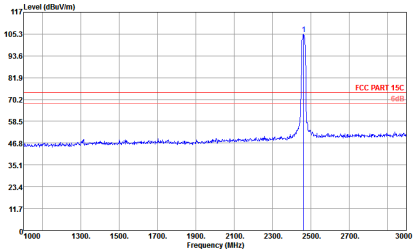
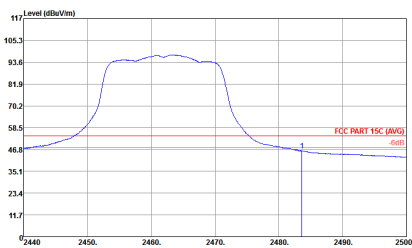
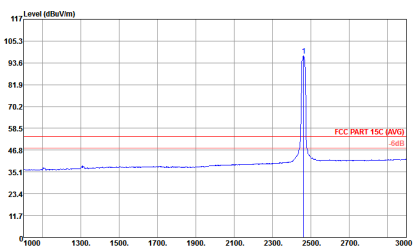


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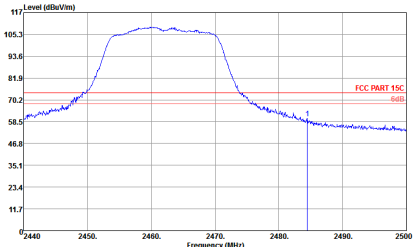
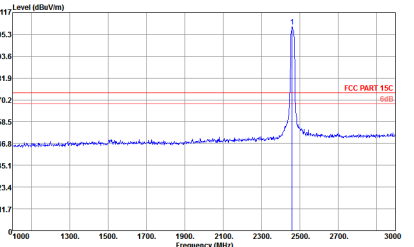
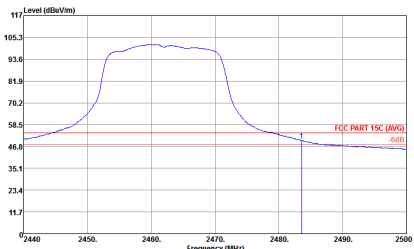
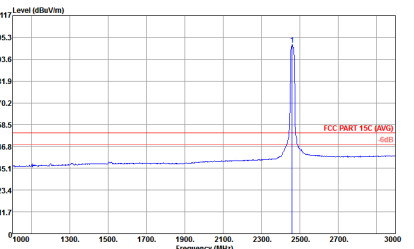


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ANT	802.11ac VH20 CH11 2462MHz																																																																																
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																						
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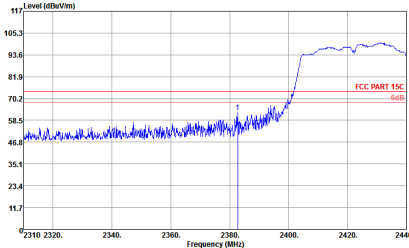
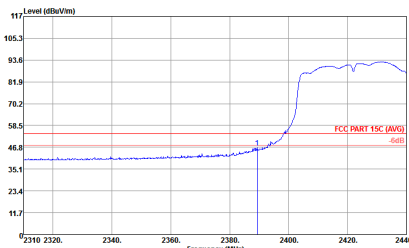
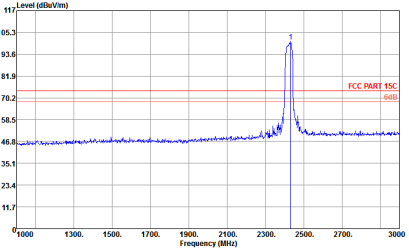
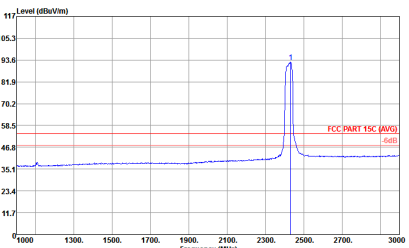


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																									
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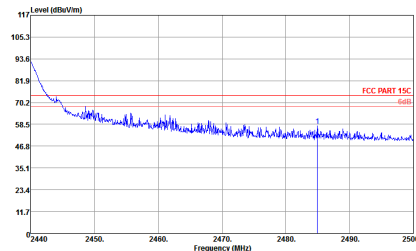
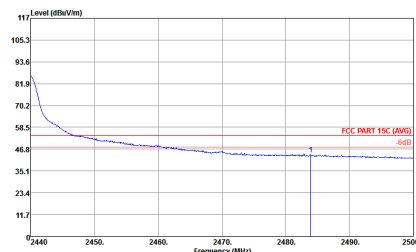


2.4GHz 2400~2483.5MHz

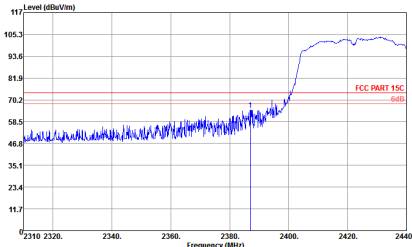
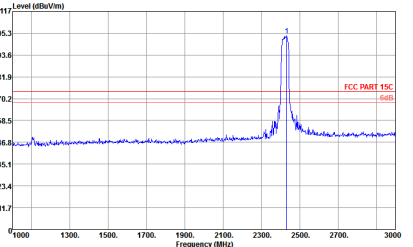
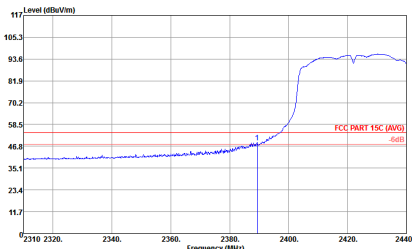
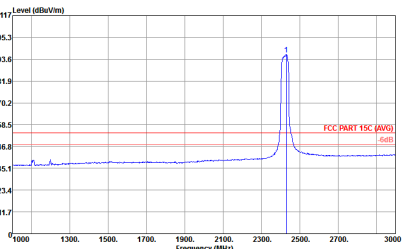
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																										
ANT	802.11ac VH40 CH03 2422MHz - L																																										
1+2	Horizontal																																										
Peak	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015013-91280 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2382.67</td><td>62.74</td><td>-11.26</td><td>74.00</td><td>67.36</td><td>26.95</td><td>5.45</td><td>37.02</td><td>100</td><td>112 Peak</td><td>HORIZONTAL</td></tr></table>												Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg			1	2382.67	62.74	-11.26	74.00	67.36	26.95	5.45	37.02	100	112 Peak	HORIZONTAL
		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
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Avg.	 Site Condition : 83CH03-KS : FCC PART 15C (AVG) 3m HF ANT-2015013-91280 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.30</td><td>46.45</td><td>-7.55</td><td>54.00</td><td>51.00</td><td>27.00</td><td>5.47</td><td>37.02</td><td>100</td><td>112 Average</td><td>HORIZONTAL</td></tr></table>												Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg			1	2389.30	46.45	-7.55	54.00	51.00	27.00	5.47	37.02	100	112 Average	HORIZONTAL
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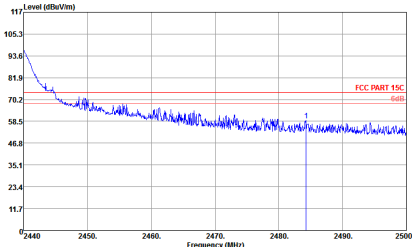
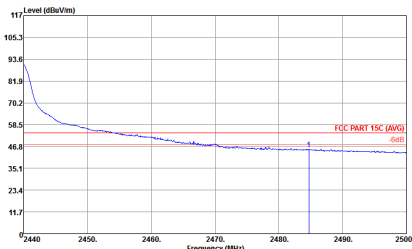


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																			
ANT	802.11ac VH40 CH03 2422MHz - R																																			
1+2	Horizontal	Fundamental																																		
Peak	 Site : 80CHB3-K5 Condition : FCC PART 15C 3m HP ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.94</td><td>57.77</td><td>-16.23</td><td>74.00</td><td>61.56</td><td>27.64</td><td>5.51</td><td>36.94</td><td>100</td><td>112 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	2484.94	57.77	-16.23	74.00	61.56	27.64	5.51	36.94	100	112 Peak	HORIZONTAL	
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																									
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg																											
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Avg.	 Site : 80CHB3-K5 Condition : FCC PART 15C (AVG) 3m HP ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2483.92</td><td>43.92</td><td>-10.08</td><td>54.00</td><td>47.71</td><td>27.64</td><td>5.51</td><td>36.94</td><td>100</td><td>112 Average</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg		1	2483.92	43.92	-10.08	54.00	47.71	27.64	5.51	36.94	100	112 Average	HORIZONTAL	
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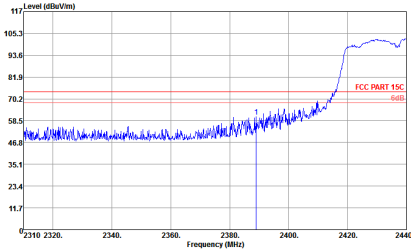
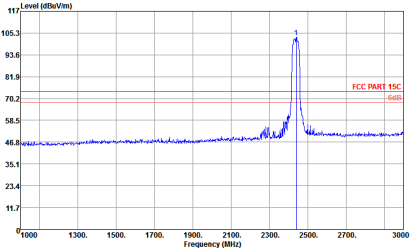
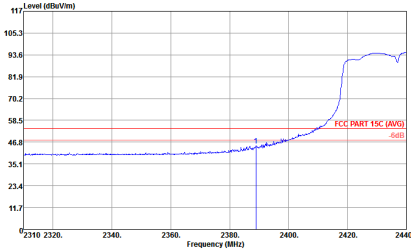
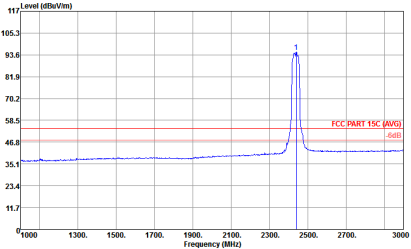


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																												
ANT	802.11ac VH40 CH03 2422MHz - L																																												
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Peak	 Site Condition : 83CH3-KS : FCC PART 15C 3e HF ANT-2015813-91280 VERTICAL : RSW:1000.000KHz VSW:3.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2387.89</td><td>64.75</td><td>-9.25</td><td>74.00</td><td>69.30</td><td>27.00</td><td>5.47</td><td>37.02</td><td>322</td><td>155 Peak</td><td>VERTICAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2387.89	64.75	-9.25	74.00	69.30	27.00	5.47	37.02	322	155 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																					
1	2387.89	64.75	-9.25	74.00	69.30	27.00	5.47	37.02	322	155 Peak	VERTICAL																																		
Fundamental	 Site Condition : 83CH3-KS : FCC PART 15C 3e HF ANT-2015813-91280 VERTICAL : RSW:1000.000KHz VSW:3.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2432.00</td><td>104.10</td><td>38.10</td><td>74.00</td><td>100.35</td><td>27.26</td><td>5.48</td><td>36.99</td><td>322</td><td>155 Peak</td><td>VERTICAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2432.00	104.10	38.10	74.00	100.35	27.26	5.48	36.99	322	155 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg																																					
1	2432.00	104.10	38.10	74.00	100.35	27.26	5.48	36.99	322	155 Peak	VERTICAL																																		
Avg.	 Site Condition : 83CH3-KS : FCC PART 15C (AVG) 3e HF ANT-2015813-91280 VERTICAL : RSW:1000.000KHz VSW:3.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.30</td><td>48.96</td><td>-5.04</td><td>54.00</td><td>53.51</td><td>27.00</td><td>5.47</td><td>37.02</td><td>322</td><td>155 Average</td><td>VERTICAL</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2389.30	48.96	-5.04	54.00	53.51	27.00	5.47	37.02	322	155 Average	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																		
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1	2430.00	96.25	42.25	54.00	100.50	27.26	5.48	36.99	322	155 Average	VERTICAL																																		

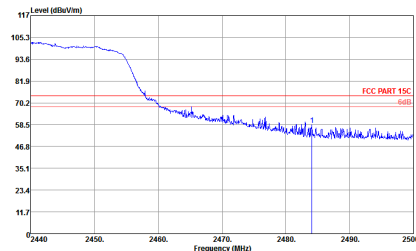
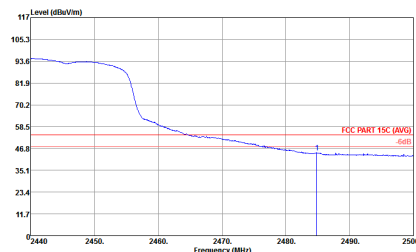


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																											
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Peak	 Site : 803CH03-K5 Condition : FCC PART 15C 3m HP ANT-2015813-91280 VERTICAL RSM:1000.000000GHz VSW:3.000000GHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.28</td><td>59.14</td><td>-14.06</td><td>74.00</td><td>62.93</td><td>27.64</td><td>5.51</td><td>36.94</td><td>322</td><td>155 Peak</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	dB	cm	deg		1	2484.28	59.14	-14.06	74.00	62.93	27.64	5.51	36.94	322	155 Peak	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
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Avg.	 Site : 803CH03-K5 Condition : FCC PART 15C (AVG) 3m HP ANT-2015813-91280 VERTICAL RSM:1000.000000GHz VSW:3.000000GHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.70</td><td>45.44</td><td>-8.56</td><td>54.00</td><td>49.23</td><td>27.64</td><td>5.51</td><td>36.94</td><td>322</td><td>155 Average</td><td>VERTICAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	dB	cm	deg		1	2484.70	45.44	-8.56	54.00	49.23	27.64	5.51	36.94	322	155 Average	VERTICAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																	
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	dB	cm	deg																																			
1	2484.70	45.44	-8.56	54.00	49.23	27.64	5.51	36.94	322	155 Average	VERTICAL																																	

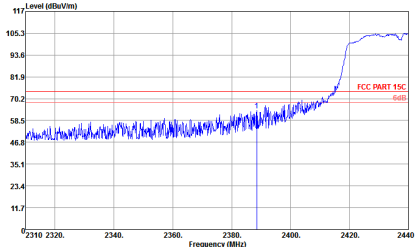
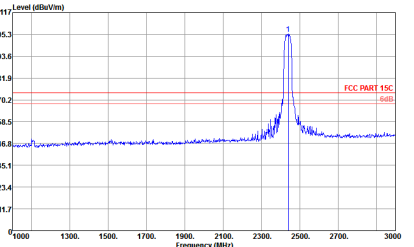
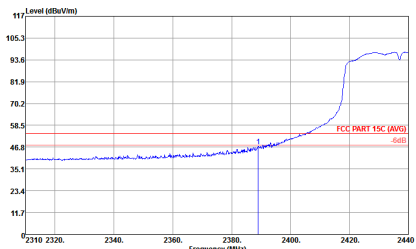
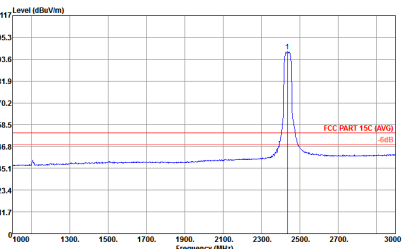


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																						
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Peak	 Site : 83CH3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VSW:3.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.04</td><td>68.49</td><td>-13.51</td><td>74.00</td><td>65.04</td><td>27.00</td><td>5.47</td><td>37.02</td><td>385</td><td>146 Peak</td><td>HORIZONTAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	2389.04	68.49	-13.51	74.00	65.04	27.00	5.47	37.02	385	146 Peak	HORIZONTAL	 Site : 83CH3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL RBW:1000.000KHz VSW:3.000KHz SWT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 2440.00</td><td>102.89</td><td>28.89</td><td>74.00</td><td>106.90</td><td>27.39</td><td>5.49</td><td>36.97</td><td>385</td><td>146 Peak</td><td>HORIZONTAL</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1 * 2440.00	102.89	28.89	74.00	106.90	27.39	5.49	36.97	385	146 Peak	HORIZONTAL
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																												
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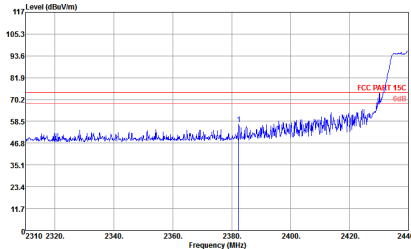
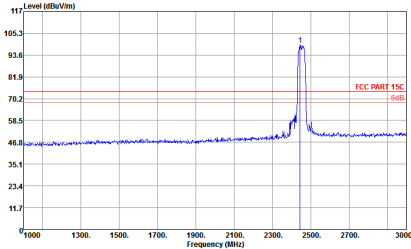
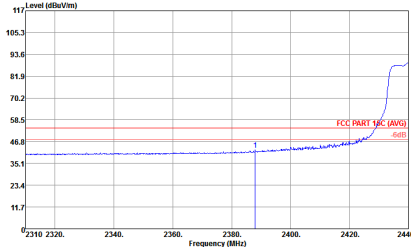
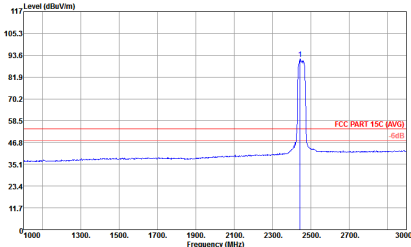


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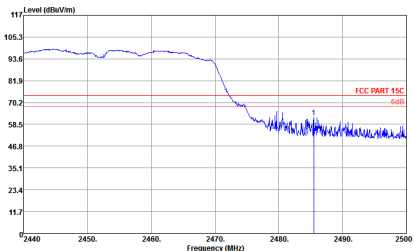
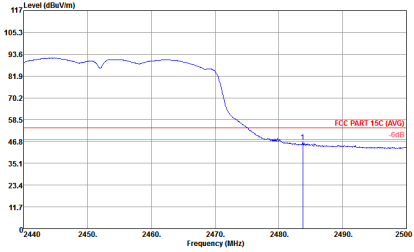


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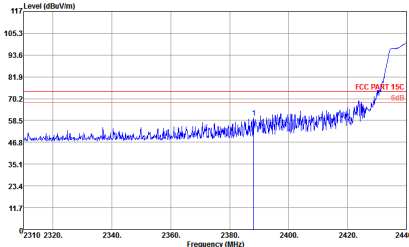
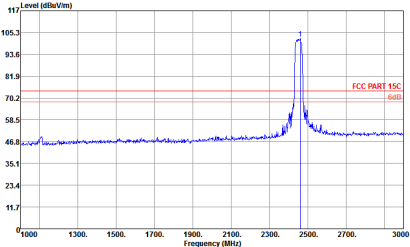
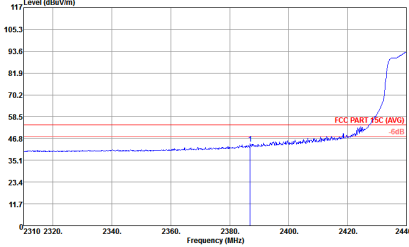
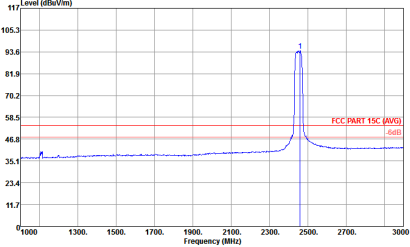


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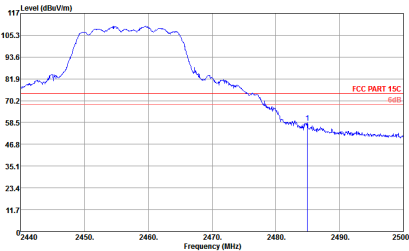
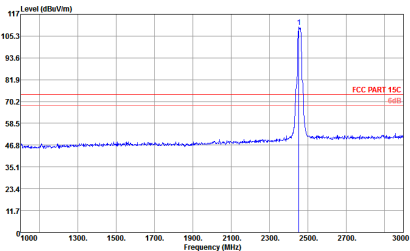
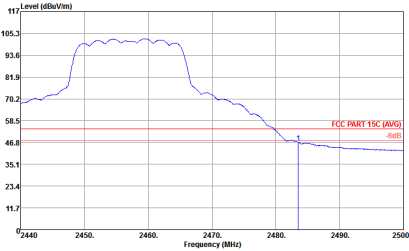
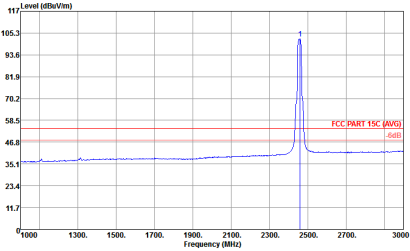


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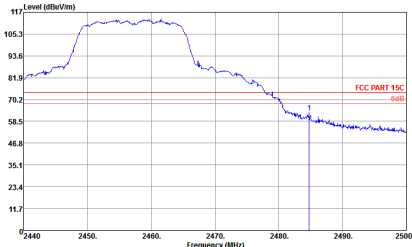
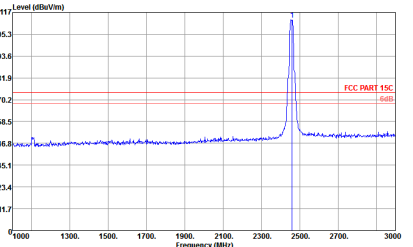
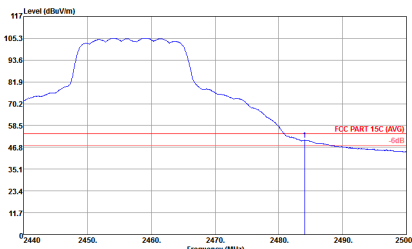
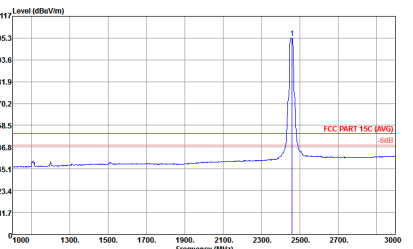


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

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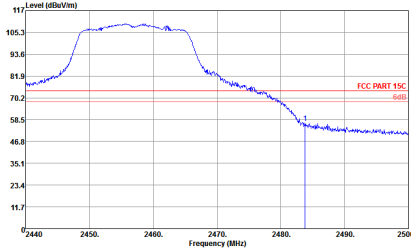
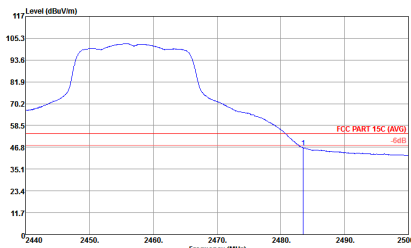
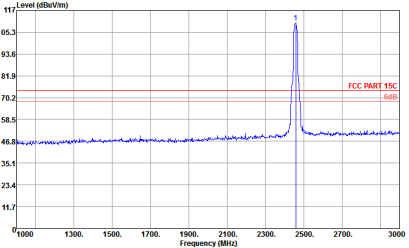
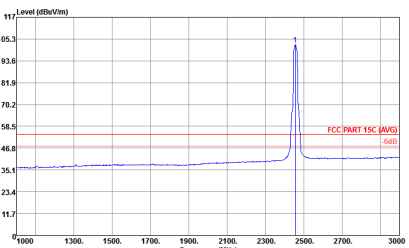


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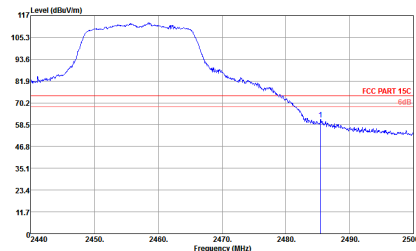
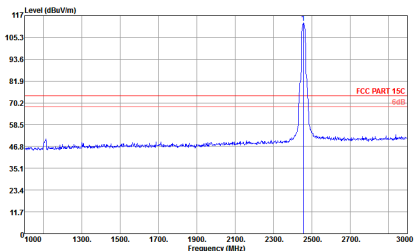
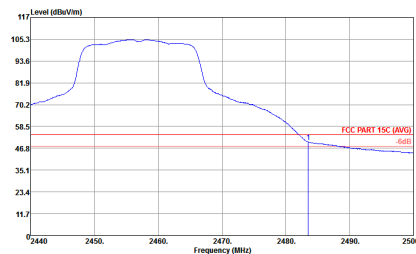
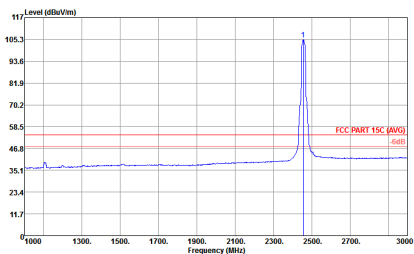


2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																															
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2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI

ANT

1+2

2.4GHz 2400~2483.5MHz Harmonic @ 3m

802.11b CH01 2412MHZ

Horizontal

Vertical

Peak

Avg.

117

105.3

93.6

81.9

70.2

58.5

46.8

35.1

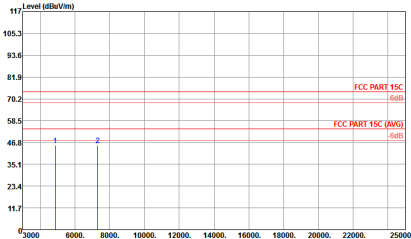
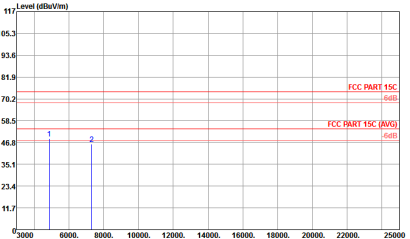
23.4

11.7

Level (dBuV/m)

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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																							
ANT	802.11b CH06 2437MHZ																																																																																																							
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Peak Avg.	 Site : 83CH03-KS Condition : FCC PART 15C 3e HF ANT-2015813-91280 HORIZONTAL RSSI:100W, ANNOTATE: VSW:300W, ANNOTATE: SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4872.00</td><td>45.24</td><td>-28.76</td><td>74.00</td><td>42.55</td><td>33.59</td><td>7.76</td><td>36.66</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7368.00</td><td>45.42</td><td>-28.58</td><td>74.00</td><td>38.32</td><td>34.83</td><td>9.76</td><td>36.69</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4872.00	45.24	-28.76	74.00	42.55	33.59	7.76	36.66	100	360 Peak	HORIZONTAL	2	7368.00	45.42	-28.58	74.00	38.32	34.83	9.76	36.69	100	360 Peak	HORIZONTAL	 Site : 83CH03-KS Condition : FCC PART 15C 3e HF ANT-2015813-91280 VERTICAL RSSI:100W, ANNOTATE: VSW:300W, ANNOTATE: SMT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4872.00</td><td>49.41</td><td>-24.99</td><td>74.00</td><td>46.32</td><td>33.59</td><td>7.76</td><td>36.66</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7368.00</td><td>49.98</td><td>-28.18</td><td>74.00</td><td>38.80</td><td>34.83</td><td>9.76</td><td>36.69</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4872.00	49.41	-24.99	74.00	46.32	33.59	7.76	36.66	100	360 Peak	VERTICAL	2	7368.00	49.98	-28.18	74.00	38.80	34.83	9.76	36.69	100	360 Peak	VERTICAL
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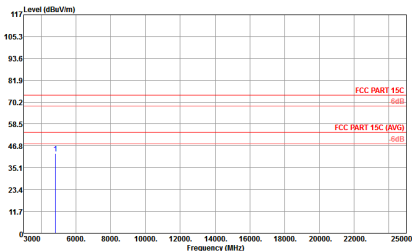
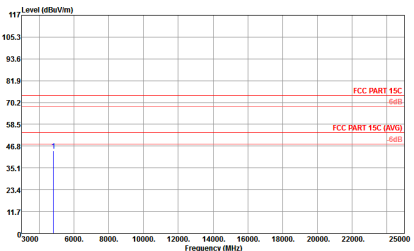


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																											
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Peak Avg.	Site : 83CHB3-KS Condition : FCC PART 15C 3m RF ANT-2015813-912M0 HORIZONTAL RSSI:1000.00dBmC VSW:1.0000 SWR:1.0000 SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4936.00</td><td>45.87</td><td>-28.03</td><td>74.00</td><td>42.25</td><td>31.67</td><td>7.00</td><td>36.65</td><td>100</td><td>360</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>7366.00</td><td>45.16</td><td>-28.84</td><td>74.00</td><td>37.79</td><td>34.29</td><td>9.86</td><td>36.78</td><td>100</td><td>360</td><td>Peak HORIZONTAL</td></tr></table>							Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4936.00	45.87	-28.03	74.00	42.25	31.67	7.00	36.65	100	360	Peak HORIZONTAL	2	7366.00	45.16	-28.84	74.00	37.79	34.29	9.86	36.78	100	360	Peak HORIZONTAL	Site : 83CHB3-KS Condition : FCC PART 15C 3m RF ANT-2015813-912M0 VERTICAL RSSI:1000.00dBmC VSW:1.0000 SWR:1.0000 SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4936.00</td><td>47.61</td><td>-26.39</td><td>74.00</td><td>44.79</td><td>31.67</td><td>7.00</td><td>36.65</td><td>100</td><td>360</td><td>Peak VERTICAL</td></tr><tr><td>2</td><td>7366.00</td><td>45.46</td><td>-28.54</td><td>74.00</td><td>38.89</td><td>34.29</td><td>9.86</td><td>36.78</td><td>100</td><td>360</td><td>Peak VERTICAL</td></tr></table>							Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4936.00	47.61	-26.39	74.00	44.79	31.67	7.00	36.65	100	360	Peak VERTICAL	2	7366.00	45.46	-28.54	74.00	38.89	34.29	9.86	36.78	100	360	Peak VERTICAL
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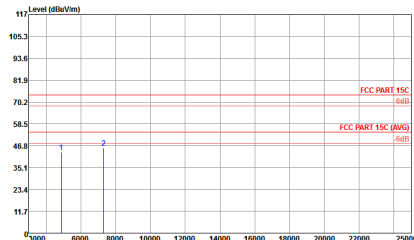
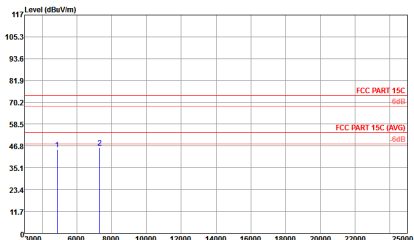


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																														
ANT	802.11g CH01 2412MHz																																																																														
1+2	Horizontal						Vertical																																																																								
Peak Avg.	 Site Condition : 03CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : R8U-1000-000000C VSW:3000-000000C SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4824.00</td><td>42.00</td><td>-31.40</td><td>74.00</td><td>40.05</td><td>31.51</td><td>7.72</td><td>36.68</td><td>200</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	4824.00	42.00	-31.40	74.00	40.05	31.51	7.72	36.68	200	360 Peak	HORIZONTAL	 Site Condition : 03CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : R8U-1000-000000C VSW:3000-000000C SUT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4824.00</td><td>44.19</td><td>-29.81</td><td>74.00</td><td>41.64</td><td>31.51</td><td>7.72</td><td>36.68</td><td>200</td><td>0 Peak</td><td>VERTICAL</td></tr></table>					Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg			1	4824.00	44.19	-29.81	74.00	41.64	31.51	7.72	36.68	200	0 Peak	VERTICAL
	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																				
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Peak Avg.	 Site : 83CHB3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL RES:1000,8000Hz VSW:3000,8000Hz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100</th><th>dB</th><th>dBm/100</th><th>dBm/100</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4872.00</td><td>43.37</td><td>38.63</td><td>74.00</td><td>46.68</td><td>33.59</td><td>7.76</td><td>36.66</td><td>200</td><td>360</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7311.00</td><td>45.70</td><td>-28.30</td><td>74.00</td><td>38.69</td><td>34.83</td><td>9.76</td><td>36.69</td><td>200</td><td>360</td><td>Peak</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100	dB	dBm/100	dBm/100	dB	dB	cm	deg	1	4872.00	43.37	38.63	74.00	46.68	33.59	7.76	36.66	200	360	Peak	HORIZONTAL	2	7311.00	45.70	-28.30	74.00	38.69	34.83	9.76	36.69	200	360	Peak	HORIZONTAL	 Site : 83CHB3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL RES:1000,8000Hz VSW:3000,8000Hz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100</th><th>dB</th><th>dBm/100</th><th>dBm/100</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4872.00</td><td>44.92</td><td>-29.08</td><td>74.00</td><td>42.23</td><td>33.59</td><td>7.76</td><td>36.66</td><td>200</td><td>360</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7311.00</td><td>45.94</td><td>-28.06</td><td>74.00</td><td>38.84</td><td>34.83</td><td>9.76</td><td>36.69</td><td>200</td><td>360</td><td>Peak</td><td>VERTICAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100	dB	dBm/100	dBm/100	dB	dB	cm	deg	1	4872.00	44.92	-29.08	74.00	42.23	33.59	7.76	36.66	200	360	Peak	VERTICAL	2	7311.00	45.94	-28.06	74.00	38.84	34.83	9.76	36.69	200	360	Peak	VERTICAL
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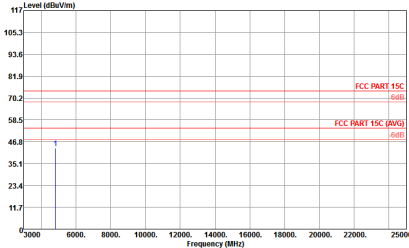
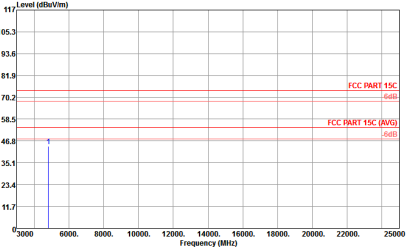


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1	4935.00	42.84	-31.16	74.00	48.02	31.67	7.88	36.65	200	0 Peak	HORIZONTAL																																																
2	7386.00	46.61	-27.39	74.00	39.24	34.29	9.86	36.78	200	0 Peak	HORIZONTAL																																																
Site : 83CH83-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL RSSI:1000.00dBm/Hz VSW:3000.00dBm/Hz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4935.00</td><td>41.59</td><td>-38.41</td><td>74.00</td><td>48.77</td><td>31.67</td><td>7.88</td><td>36.65</td><td>200</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7386.00</td><td>46.75</td><td>-27.25</td><td>74.00</td><td>39.38</td><td>34.29</td><td>9.86</td><td>36.78</td><td>200</td><td>0 Peak</td><td>VERTICAL</td></tr></table>												Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4935.00	41.59	-38.41	74.00	48.77	31.67	7.88	36.65	200	0 Peak	VERTICAL	2	7386.00	46.75	-27.25	74.00	39.38	34.29	9.86	36.78	200	0 Peak	VERTICAL	
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																
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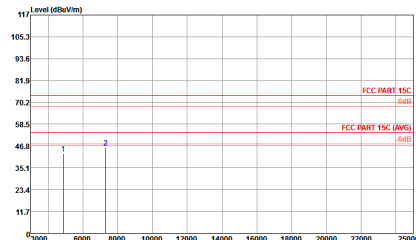
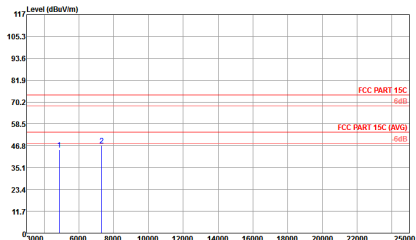


2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																														
ANT	802.11ac VHT20 CH01 2412MHz																																																																																														
1+2	Horizontal						Vertical																																																																																								
Peak Avg.	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : R801-1000-000000C V901-3000-000000C SMT Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4824.00</td><td>43.37</td><td>-30.63</td><td>74.00</td><td>40.82</td><td>31.51</td><td>7.72</td><td>36.68</td><td>200</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>							Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor					MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	4824.00	43.37	-30.63	74.00	40.82	31.51	7.72	36.68	200	0 Peak	HORIZONTAL	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : R801-1000-000000C V901-3000-000000C SMT Auto <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4824.00</td><td>44.16</td><td>-29.84</td><td>74.00</td><td>41.61</td><td>31.51</td><td>7.72</td><td>36.68</td><td>200</td><td>368 Peak</td><td>VERTICAL</td></tr></table>						Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level Factor	Loss Factor					MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	4824.00	44.16	-29.84	74.00	41.61	31.51	7.72	36.68	200	368 Peak	VERTICAL
		Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																					
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1	4824.00	43.37	-30.63	74.00	40.82	31.51	7.72	36.68	200	0 Peak	HORIZONTAL																																																																																				
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																													
ANT	802.11ac VHT20 CH06 2437MHz																																																																																													
1+2	Horizontal					Vertical																																																																																								
Peak Avg.	 Site : 83CHB3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL RES:100Hz,8000Hz VSW:3.00dB,8000Hz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4872.00</td><td>42.77</td><td>-31.23</td><td>74.00</td><td>40.00</td><td>31.59</td><td>7.76</td><td>36.66</td><td>200</td><td>0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7311.00</td><td>46.89</td><td>-27.91</td><td>74.00</td><td>38.99</td><td>34.83</td><td>9.76</td><td>36.69</td><td>200</td><td>0 Peak HORIZONTAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	4872.00	42.77	-31.23	74.00	40.00	31.59	7.76	36.66	200	0 Peak HORIZONTAL	2	7311.00	46.89	-27.91	74.00	38.99	34.83	9.76	36.69	200	0 Peak HORIZONTAL	 Site : 83CHB3-KS Condition : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL RES:100Hz,8000Hz VSW:3.00dB,8000Hz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4872.00</td><td>44.66</td><td>-29.34</td><td>74.00</td><td>41.97</td><td>33.59</td><td>7.76</td><td>36.66</td><td>200</td><td>360 Peak VERTICAL</td></tr><tr><td>2</td><td>7311.00</td><td>46.92</td><td>-27.08</td><td>74.00</td><td>39.82</td><td>34.83</td><td>9.76</td><td>36.69</td><td>200</td><td>360 Peak VERTICAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	1	4872.00	44.66	-29.34	74.00	41.97	33.59	7.76	36.66	200	360 Peak VERTICAL	2	7311.00	46.92	-27.08	74.00	39.82	34.83	9.76	36.69	200	360 Peak VERTICAL
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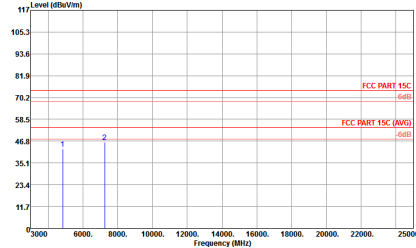
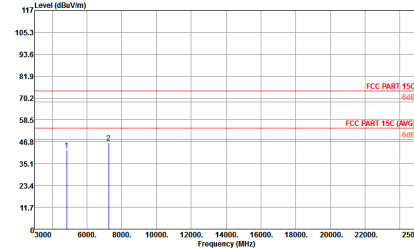


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																														
ANT	802.11ac VHT20 CH11 2462MHz																																																																																														
1+2	Horizontal						Vertical																																																																																								
Peak Avg.																																																																																															
	Site : 83CH3-KS Condition : FCC PART 15C 3m HP ANT-2015813-91280 HORIZONTAL RSSI:1000.000000 VSW:3.0000.000000 SMT:Auto						Site : 83CH3-KS Condition : FCC PART 15C 3m HP ANT-2015813-91280 VERTICAL RSSI:1000.000000 VSW:3.0000.000000 SMT:Auto																																																																																								
	<table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4926.00</td><td>42.78</td><td>31.22</td><td>74.00</td><td>39.00</td><td>31.67</td><td>7.00</td><td>36.65</td><td>200</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7386.00</td><td>46.48</td><td>-27.60</td><td>74.00</td><td>39.03</td><td>34.29</td><td>9.86</td><td>36.78</td><td>200</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	1	4926.00	42.78	31.22	74.00	39.00	31.67	7.00	36.65	200	0 Peak	HORIZONTAL	2	7386.00	46.48	-27.60	74.00	39.03	34.29	9.86	36.78	200	0 Peak	HORIZONTAL	<table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4926.00</td><td>45.53</td><td>-28.47</td><td>74.00</td><td>43.71</td><td>31.67</td><td>7.00</td><td>36.65</td><td>200</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7386.00</td><td>45.08</td><td>-28.28</td><td>74.00</td><td>38.43</td><td>34.29</td><td>9.86</td><td>36.78</td><td>200</td><td>360 Peak</td><td>VERTICAL</td></tr></table>						Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	1	4926.00	45.53	-28.47	74.00	43.71	31.67	7.00	36.65	200	360 Peak	VERTICAL	2	7386.00	45.08	-28.28	74.00	38.43	34.29	9.86	36.78	200	360 Peak
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																							
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2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

Avg.	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
ANT	802.11ac VHT40 CH03 2422MHz																																																																																									
1+2	Horizontal	Vertical																																																																																								
	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 HORIZONTAL : RMS:1000.000000 VSW:1.0000.000000 SATT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4642.00</td><td>42.78</td><td>-31.38</td><td>74.00</td><td>40.11</td><td>31.53</td><td>7.74</td><td>36.68</td><td>200</td><td>0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7266.00</td><td>46.19</td><td>-27.01</td><td>74.00</td><td>39.40</td><td>33.93</td><td>9.72</td><td>36.68</td><td>200</td><td>0 Peak HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	dB	dB	cm	deg		1	4642.00	42.78	-31.38	74.00	40.11	31.53	7.74	36.68	200	0 Peak HORIZONTAL	2	7266.00	46.19	-27.01	74.00	39.40	33.93	9.72	36.68	200	0 Peak HORIZONTAL	 Site Condition : 83CH03-KS : FCC PART 15C 3m HF ANT-2015813-91280 VERTICAL : RMS:1000.000000 VSW:1.0000.000000 SATT:Auto <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4642.00</td><td>42.46</td><td>-31.54</td><td>74.00</td><td>39.87</td><td>31.53</td><td>7.74</td><td>36.68</td><td>200</td><td>0 Peak VERTICAL</td></tr><tr><td>2</td><td>7266.00</td><td>46.16</td><td>-27.04</td><td>74.00</td><td>39.17</td><td>33.93</td><td>9.72</td><td>36.68</td><td>200</td><td>0 Peak VERTICAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	Limit	Line	Level	Factor	dB	dB	cm	deg		1	4642.00	42.46	-31.54	74.00	39.87	31.53	7.74	36.68	200	0 Peak VERTICAL	2	7266.00	46.16	-27.04	74.00	39.17	33.93	9.72	36.68	200	0 Peak VERTICAL
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WIFI		2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																												
ANT		802.11ac VHT40 CH06 2437MHz																																																																																												
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																			
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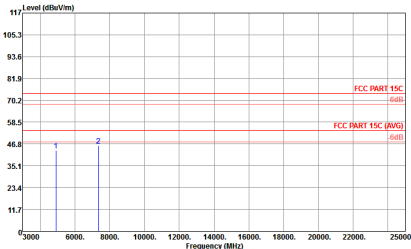
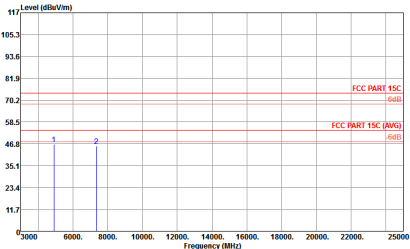
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																																															
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2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

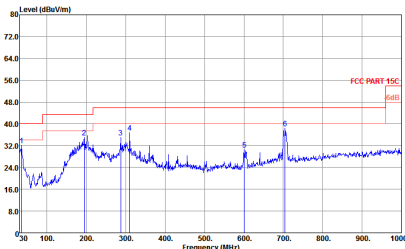
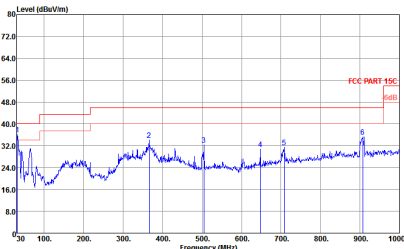
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2.4GHz 2400~2483.5MHz

Emission below 1GHz

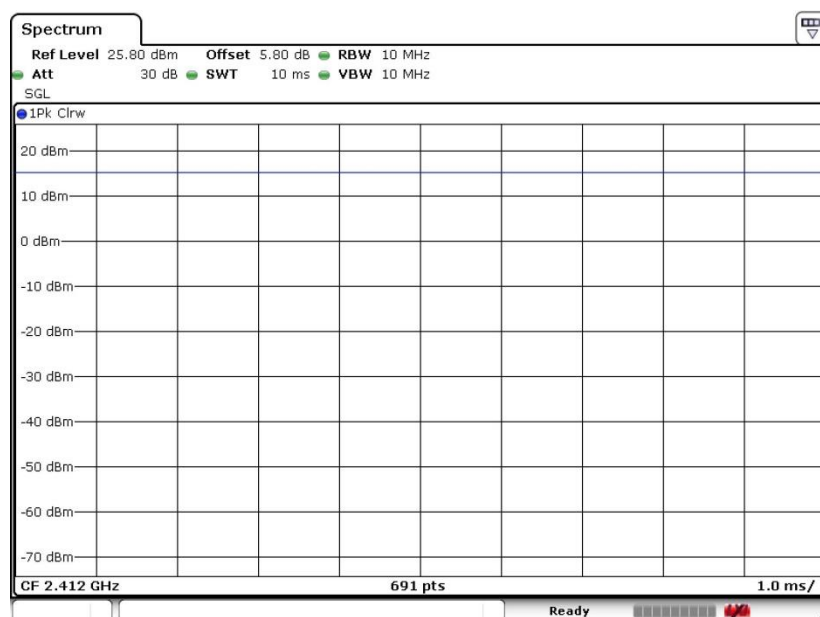
2.4GHz WIFI 802.11g (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																	
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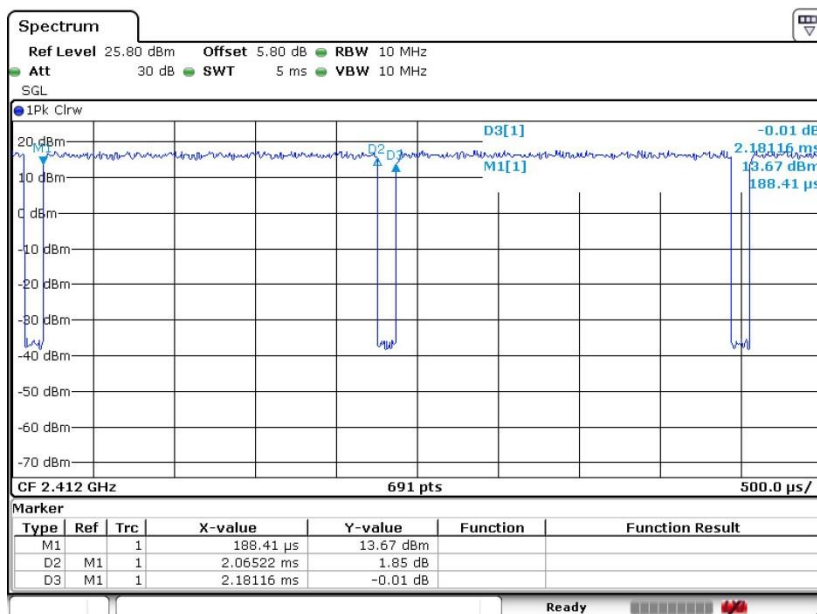
Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11 b	100	-	-	10Hz
1+2	802.11 g	94.68	2.065	0.484	1kHz
1+2	802.11 ac VHT20	93.92	1.930	0.518	1kHz
1+2	802.11 ac VHT40	89.67	0.955	1.047	3kHz

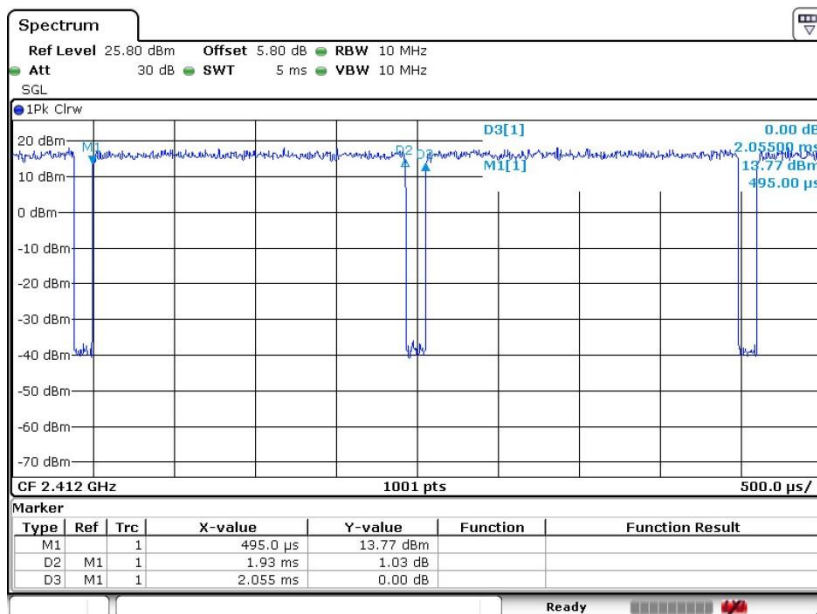
802.11 b



802.11 g



802.11 ac VHT20





802.11 ac VHT40

