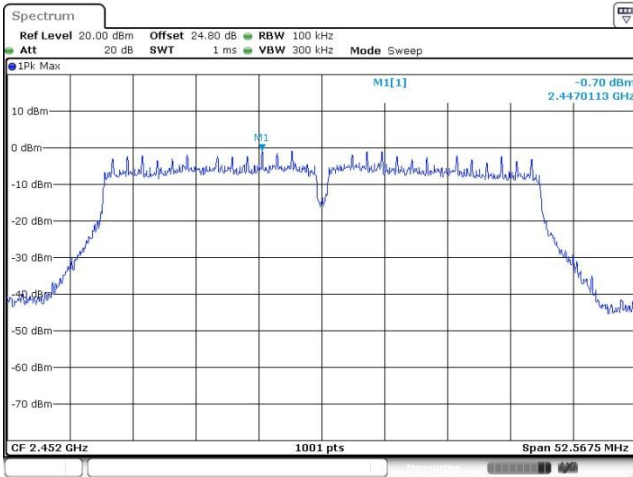




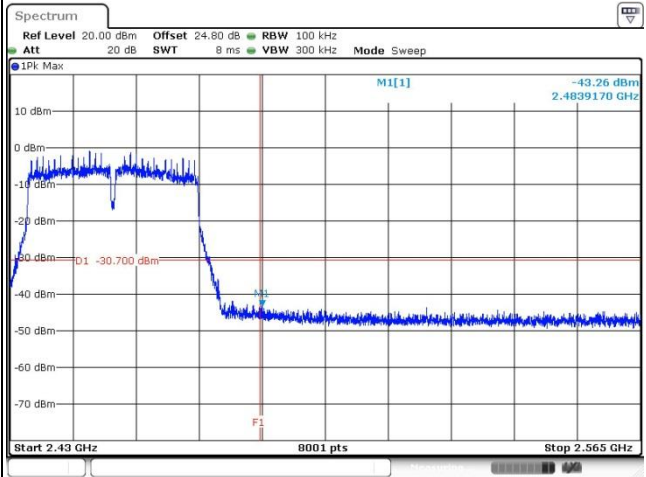
WLAN 802.11ac VHT40 Channel 09

100kHz PSD reference Level



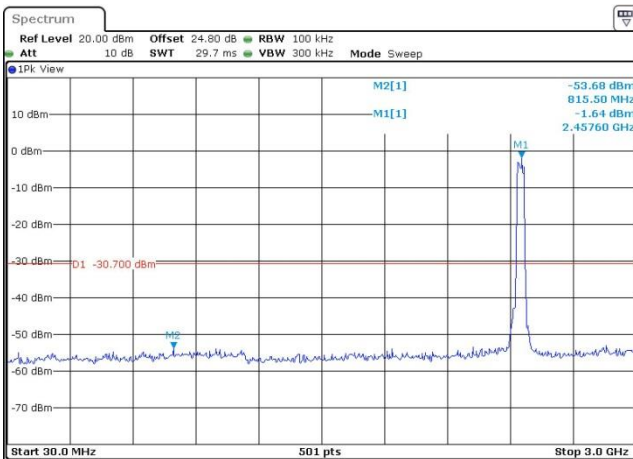
Date: 7.APR.2019 11:29:35

High Channel Plot



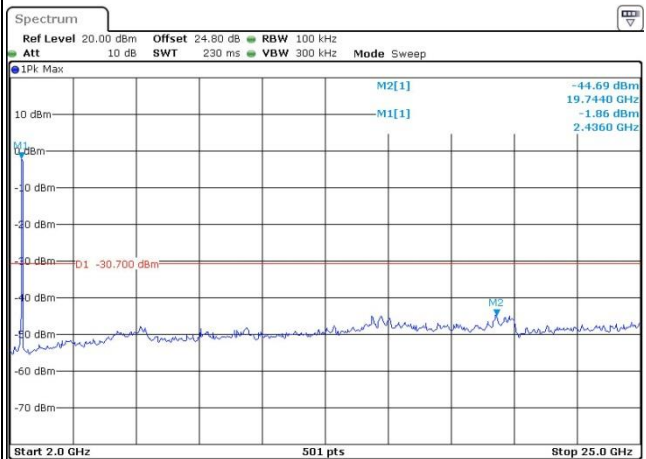
Date: 7.APR.2019 11:29:52

Spurious Emission 30MHz~3GHz



Date: 7.APR.2019 11:30:55

Spurious Emission 2GHz~25GHz



Date: 7.APR.2019 11:31:46



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 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

3.5.2 Measuring Instruments

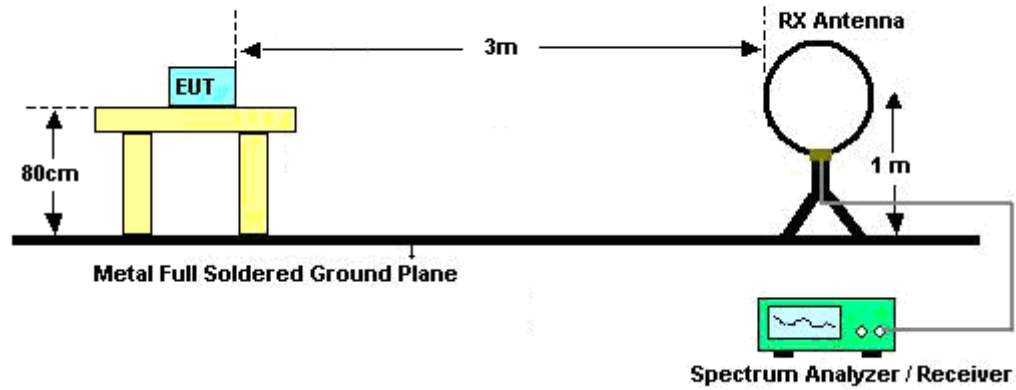
See list of measuring equipment of this test report.

3.5.3 Test Procedures

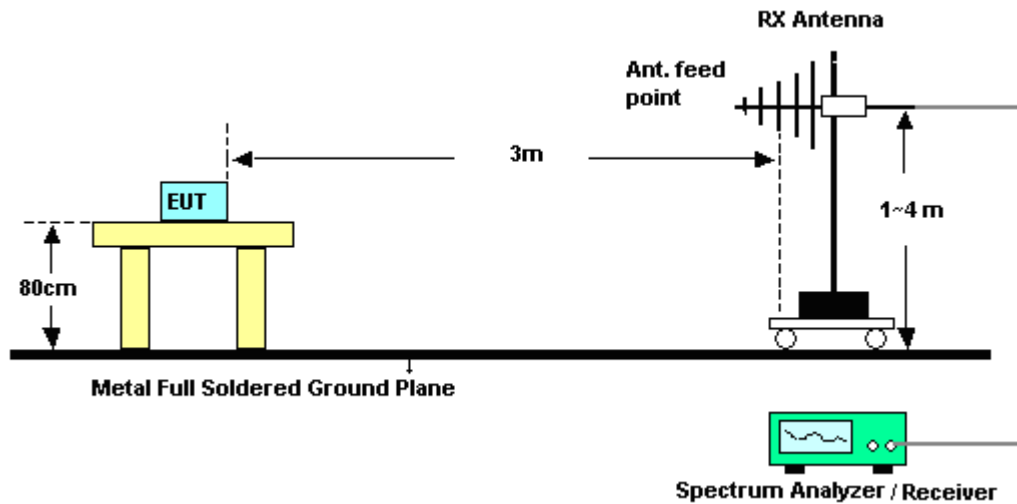
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. 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 = 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.

3.5.4 Test Setup

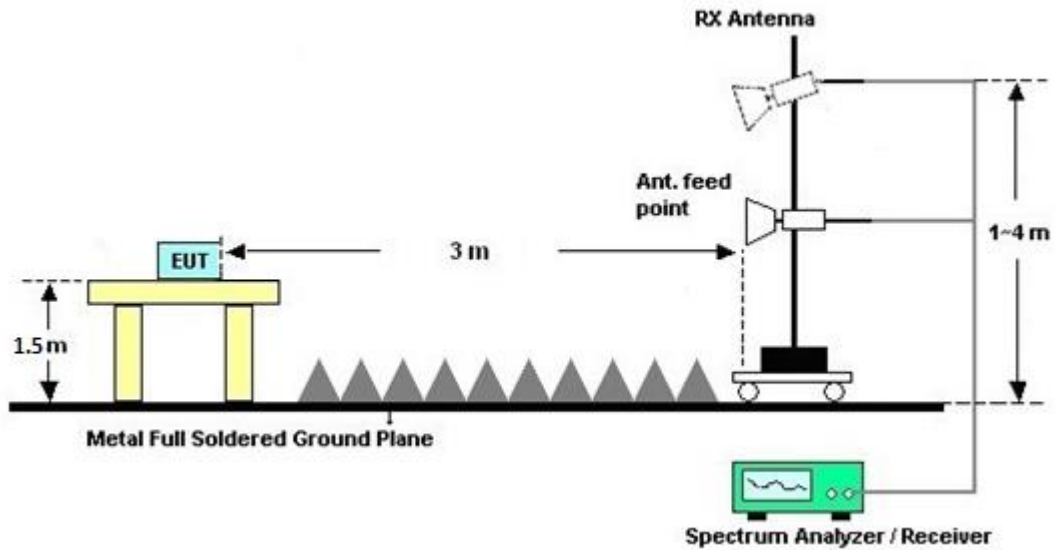
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 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.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.6 Antenna Requirements

3.6.1 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. 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

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.

<CDD Modes>						
			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	2.54	2.42	2.54	5.49	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 Sensor	DARE	RadiPower	15I00041SNO09	10MHz~6GHz	May 07, 2018	Jan. 28, 2019~ Apr. 07, 2019	May 06, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jan. 28, 2019~ Apr. 07, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Jan. 07, 2019	Apr. 01, 2019~ Apr. 04, 2019	Jan. 06, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Apr. 01, 2019~ Apr. 04, 2019	Oct. 12, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 19, 2018	Apr. 01, 2019~ Apr. 04, 2019	Oct. 18, 2019	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	May 08, 2018	Apr. 01, 2019~ Apr. 04, 2019	May 07, 2019	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2019	Apr. 01, 2019~ Apr. 04, 2019	Mar. 24, 2020	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 28, 2018	Apr. 01, 2019~ Apr. 04, 2019	May 27, 2019	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	1710001800054002	1GHz~18GHz	Apr. 17, 2018	Apr. 01, 2019~ Apr. 04, 2019	Apr. 16, 2019	Radiation (03CH12-HY)
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	Aug. 24, 2018	Apr. 01, 2019~ Apr. 04, 2019	Aug. 23, 2019	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	FSV30	103738	9kHz~30GHz	May 22, 2018	Apr. 01, 2019~ Apr. 04, 2019	May 21, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass	Mar. 20, 2019	Apr. 01, 2019~ Apr. 04, 2019	Mar. 19, 2020	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass	Mar. 20, 2019	Apr. 01, 2019~ Apr. 04, 2019	Mar. 19, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 13, 2019	Apr. 01, 2019~ Apr. 04, 2019	Mar. 12, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Apr. 01, 2019~ Apr. 04, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Apr. 01, 2019~ Apr. 04, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 01, 2019~ Apr. 04, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 01, 2019~ Apr. 04, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 01, 2019~ Apr. 04, 2019	N/A	Radiation (03CH12-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Howard Lin/Shiming Liu	Temperature:	21~25	°C
Test Date:	2019/1/28~2019/4/7	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	13.28	13.74	7.53	8.03	0.50	Pass
11b	1Mbps	2	6	2437	13.24	13.84	8.03	8.03	0.50	Pass
11b	1Mbps	2	11	2462	13.19	13.84	8.03	8.03	0.50	Pass
11g	6Mbps	2	1	2412	16.88	16.78	15.52	16.26	0.50	Pass
11g	6Mbps	2	6	2437	16.78	16.83	16.00	15.12	0.50	Pass
11g	6Mbps	2	11	2462	16.78	16.58	15.34	16.06	0.50	Pass
VHT20	MCS0	2	1	2412	17.88	17.88	15.92	16.66	0.50	Pass
VHT20	MCS0	2	6	2437	17.88	17.93	15.11	15.11	0.50	Pass
VHT20	MCS0	2	11	2462	17.88	17.78	15.92	15.96	0.50	Pass
VHT40	MCS0	2	3	2422	36.56	36.36	35.12	35.28	0.50	Pass
VHT40	MCS0	2	6	2437	36.56	36.66	35.33	35.13	0.50	Pass
VHT40	MCS0	2	9	2452	36.46	36.36	35.08	35.05	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average 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	21.30	21.10	-	30.00	30.00	2.54	2.42	23.84	23.52	36.00	36.00	Pass
11b	1Mbps	1	6	2437	21.20	21.00		30.00	30.00	2.54	2.42	23.74	23.42	36.00	36.00	Pass
11b	1Mbps	1	11	2462	21.10	21.00		30.00	30.00	2.54	2.42	23.64	23.42	36.00	36.00	Pass
11g	6Mbps	1	1	2412	16.60	16.60		30.00	30.00	2.54	2.42	19.14	19.02	36.00	36.00	Pass
11g	6Mbps	1	6	2437	20.60	20.50		30.00	30.00	2.54	2.42	23.14	22.92	36.00	36.00	Pass
11g	6Mbps	1	11	2462	16.30	16.20		30.00	30.00	2.54	2.42	18.84	18.62	36.00	36.00	Pass
HT20	MCS0	1	1	2412	16.60	16.30		30.00	30.00	2.54	2.42	19.14	18.72	36.00	36.00	Pass
HT20	MCS0	1	6	2437	19.10	19.20		30.00	30.00	2.54	2.42	21.64	21.62	36.00	36.00	Pass
HT20	MCS0	1	11	2462	16.10	15.90		30.00	30.00	2.54	2.42	18.64	18.32	36.00	36.00	Pass
HT40	MCS0	1	3	2422	13.10	12.90		30.00	30.00	2.54	2.42	15.64	15.32	36.00	36.00	Pass
HT40	MCS0	1	6	2437	18.10	18.00		30.00	30.00	2.54	2.42	20.64	20.42	36.00	36.00	Pass
HT40	MCS0	1	9	2452	12.90	12.80		30.00	30.00	2.54	2.42	15.44	15.22	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	16.60	16.40		30.00	30.00	2.54	2.42	19.14	18.82	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	19.70	19.60		30.00	30.00	2.54	2.42	22.24	22.02	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	16.20	16.00		30.00	30.00	2.54	2.42	18.74	18.42	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	13.20	13.00		30.00	30.00	2.54	2.42	15.74	15.42	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	18.60	18.50		30.00	30.00	2.54	2.42	21.14	20.92	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	13.00	12.90		30.00	30.00	2.54	2.42	15.54	15.32	36.00	36.00	Pass
11b	1Mbps	2	1	2412	21.40	21.20	24.31	30.00		2.54		26.85		36.00		Pass
11b	1Mbps	2	6	2437	21.30	21.10	24.21	30.00		2.54		26.75		36.00		Pass
11b	1Mbps	2	11	2462	21.20	21.10	24.16	30.00		2.54		26.70		36.00		Pass
11g	6Mbps	2	1	2412	17.30	17.10	20.21	30.00		2.54		22.75		36.00		Pass
11g	6Mbps	2	6	2437	20.70	20.60	23.66	30.00		2.54		26.20		36.00		Pass
11g	6Mbps	2	11	2462	16.40	16.30	19.36	30.00		2.54		21.90		36.00		Pass
HT20	MCS0	2	1	2412	16.70	16.40	19.56	30.00		2.54		22.10		36.00		Pass
HT20	MCS0	2	6	2437	19.40	19.30	22.36	30.00		2.54		24.90		36.00		Pass
HT20	MCS0	2	11	2462	16.20	16.00	19.11	30.00		2.54		21.65		36.00		Pass
HT40	MCS0	2	3	2422	13.20	13.00	16.11	30.00		2.54		18.65		36.00		Pass
HT40	MCS0	2	6	2437	18.20	18.10	21.16	30.00		2.54		23.70		36.00		Pass
HT40	MCS0	2	9	2452	13.00	12.90	15.96	30.00		2.54		18.50		36.00		Pass
VHT20	MCS0	2	1	2412	16.80	16.50	19.66	30.00		2.54		22.20		36.00		Pass
VHT20	MCS0	2	6	2437	19.90	19.70	22.81	30.00		2.54		25.35		36.00		Pass
VHT20	MCS0	2	11	2462	16.30	16.10	19.21	30.00		2.54		21.75		36.00		Pass
VHT40	MCS0	2	3	2422	13.30	13.10	16.21	30.00		2.54		18.75		36.00		Pass
VHT40	MCS0	2	6	2437	18.70	18.60	21.66	30.00		2.54		24.20		36.00		Pass
VHT40	MCS0	2	9	2452	13.10	13.00	16.06	30.00		2.54		18.60		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	0.17	-0.48	3.18	5.49		8.00		Pass
11b	1Mbps	2	6	2437	-0.94	-1.06	2.07	5.49		8.00		Pass
11b	1Mbps	2	11	2462	-0.97	-0.27	2.74	5.49		8.00		Pass
11g	6Mbps	2	1	2412	-8.51	-8.17	-5.16	5.49		8.00		Pass
11g	6Mbps	2	6	2437	-3.03	-3.37	-0.02	5.49		8.00		Pass
11g	6Mbps	2	11	2462	-10.93	-11.83	-7.92	5.49		8.00		Pass
VHT20	MCS0	2	1	2412	-11.23	-12.01	-8.22	5.49		8.00		Pass
VHT20	MCS0	2	6	2437	-5.27	-6.03	-2.26	5.49		8.00		Pass
VHT20	MCS0	2	11	2462	-11.43	-11.15	-8.14	5.49		8.00		Pass
VHT40	MCS0	2	3	2422	-17.37	-16.95	-13.94	5.49		8.00		Pass
VHT40	MCS0	2	6	2437	-9.33	-10.98	-6.32	5.49		8.00		Pass
VHT40	MCS0	2	9	2452	-17.50	-17.78	-14.49	5.49		8.00		Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang, and Chuan Chu	Temperature :	22~24°C
		Relative Humidity :	52~60%

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2385.6	56.43	-17.57	74	45.37	27.53	16.68	33.15	232	71	P	H
		2389.275	45.56	-8.44	54	34.52	27.52	16.68	33.16	232	71	A	H
	*	2412	111.45	-	-	100.43	27.48	16.72	33.18	232	71	P	H
	*	2412	107.76	-	-	96.74	27.48	16.72	33.18	232	71	A	H
													H
													H
		2378.04	57.02	-16.98	74	45.95	27.54	16.67	33.14	177	252	P	V
		2385.6	44.62	-9.38	54	33.56	27.53	16.68	33.15	177	252	A	V
	*	2412	111.41	-	-	100.39	27.48	16.72	33.18	177	252	P	V
	*	2412	107.93	-	-	96.91	27.48	16.72	33.18	177	252	A	V
													V
													V
802.11b CH 06 2437MHz		2382.24	55.04	-18.96	74	43.98	27.54	16.67	33.15	228	70	P	H
		2379.02	42.83	-11.17	54	31.76	27.54	16.67	33.14	228	70	A	H
	*	2437	111.2	-	-	100.23	27.43	16.75	33.21	228	70	P	H
	*	2437	107.37	-	-	96.4	27.43	16.75	33.21	228	70	A	H
		2489.43	54.71	-19.29	74	43.84	27.32	16.83	33.28	228	70	P	H
		2488.03	42.68	-11.32	54	31.81	27.32	16.83	33.28	228	70	A	H
		2348.5	54.92	-19.08	74	43.8	27.61	16.62	33.11	184	258	P	V
		2379.16	42.78	-11.22	54	31.71	27.54	16.67	33.14	184	258	A	V
	*	2437	111.17	-	-	100.2	27.43	16.75	33.21	184	258	P	V
	*	2437	107.36	-	-	96.39	27.43	16.75	33.21	184	258	A	V
		2493.21	54.56	-19.44	74	43.69	27.31	16.84	33.28	184	258	P	V
		2495.03	42.42	-11.58	54	31.55	27.31	16.84	33.28	184	258	A	V



FCC RADIO TEST REPORT

Report No. : FR911730-01C

802.11b CH 11 2462MHz	*	2462	111.6	-	-	100.67	27.38	16.79	33.24	236	68	P	H
	*	2462	106.99	-	-	96.06	27.38	16.79	33.24	236	68	A	H
		2490.08	55.09	-18.91	74	44.22	27.32	16.83	33.28	236	68	P	H
		2488.68	43.56	-10.44	54	32.69	27.32	16.83	33.28	236	68	A	H
													H
													H
	*	2462	111.27	-	-	100.34	27.38	16.79	33.24	179	260	P	V
	*	2462	106.4	-	-	95.47	27.38	16.79	33.24	179	260	A	V
		2488.08	55.2	-18.8	74	44.33	27.32	16.83	33.28	179	260	P	V
		2484.72	43.17	-10.83	54	32.29	27.33	16.82	33.27	179	260	A	V
													V
													V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	52.78	-21.22	74	67.82	31.1	10.43	56.57	201	241	P	H
		4824	50.31	-3.69	54	65.35	31.1	10.43	56.57	201	241	A	H
													H
													H
		4824	52.93	-21.07	74	67.97	31.1	10.43	56.57	260	66	P	V
		4824	50.3	-3.7	54	65.34	31.1	10.43	56.57	260	66	A	V
													V
													V
802.11b CH 06 2437MHz		4874	49.54	-24.46	74	64.52	31.1	10.47	56.55	100	0	P	H
		7311	43.56	-30.44	74	50.41	36.58	12.8	56.23	100	0	P	H
													H
													H
		4874	52.32	-21.68	74	67.3	31.1	10.47	56.55	258	76	P	V
		4874	49.98	-4.02	54	64.96	31.1	10.47	56.55	258	76	A	V
		7311	43.59	-30.41	74	50.44	36.58	12.8	56.23	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	52.61	-21.39	74	67.45	31.2	10.49	56.53	189	183	P	H
		4924	50.48	-3.52	54	65.32	31.2	10.49	56.53	189	183	A	H
		7386	43.12	-30.88	74	50.19	36.36	12.71	56.14	100	0	P	H
													H
		4924	53.05	-20.95	74	67.89	31.2	10.49	56.53	267	96	P	V
		4924	50.74	-3.26	54	65.58	31.2	10.49	56.53	267	96	A	V
		7386	44	-30	74	51.07	36.36	12.71	56.14	100	0	P	V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2388.225	66.92	-7.08	74	55.93	27.52	16.63	33.16	387	348	P	H
		2388.855	52.32	-1.68	54	41.33	27.52	16.63	33.16	387	348	A	H
	*	2412	112.96	-	-	102.01	27.48	16.65	33.18	387	348	P	H
	*	2412	104.53	-	-	93.58	27.48	16.65	33.18	387	348	A	H
													H
													H
		2388.12	65.83	-8.17	74	54.84	27.52	16.63	33.16	286	44	P	V
		2390	51.4	-2.6	54	40.41	27.52	16.63	33.16	286	44	A	V
	*	2412	112.52	-	-	101.57	27.48	16.65	33.18	286	44	P	V
	*	2412	104.46	-	-	93.51	27.48	16.65	33.18	286	44	A	V
													V
													V
802.11g CH 06 2437MHz		2389.24	60.32	-13.68	74	49.28	27.52	16.68	33.16	229	71	P	H
		2389.8	45.08	-8.92	54	34.04	27.52	16.68	33.16	229	71	A	H
	*	2437	112.34	-	-	101.37	27.43	16.75	33.21	229	71	P	H
	*	2437	102.19	-	-	91.22	27.43	16.75	33.21	229	71	A	H
		2484.39	61.78	-12.22	74	50.9	27.33	16.82	33.27	229	71	P	H
		2487.96	44.51	-9.49	54	33.64	27.32	16.83	33.28	229	71	A	H
		2378.74	56.18	-17.82	74	45.11	27.54	16.67	33.14	183	257	P	V
		2389.94	44.57	-9.43	54	33.53	27.52	16.68	33.16	183	257	A	V
	*	2437	111.9	-	-	100.93	27.43	16.75	33.21	183	257	P	V
	*	2437	101.79	-	-	90.82	27.43	16.75	33.21	183	257	A	V
		2490.83	57.67	-16.33	74	46.8	27.32	16.83	33.28	183	257	P	V
		2488.45	44.04	-9.96	54	33.17	27.32	16.83	33.28	183	257	A	V



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802.11g CH 11 2462MHz	*	2462	112.75	-	-	101.92	27.38	16.69	33.24	400	350	P	H
	*	2462	104.51	-	-	93.68	27.38	16.69	33.24	400	350	A	H
		2488.12	69.8	-4.2	74	59.05	27.32	16.71	33.28	400	350	P	H
		2485.92	50.98	-3.02	54	40.21	27.33	16.71	33.27	400	350	A	H
													H
													H
	*	2462	113.09	-	-	102.26	27.38	16.69	33.24	275	39	P	V
	*	2462	105.18	-	-	94.35	27.38	16.69	33.24	275	39	A	V
		2488.44	71.51	-2.49	74	60.75	27.32	16.72	33.28	275	39	P	V
		2483.68	52.24	-1.76	54	41.47	27.33	16.71	33.27	275	39	A	V
													V
													V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	55.99	-18.01	74	73	31.1	10.46	58.57	257	311	P	H
		4824	46.09	-7.91	54	63.1	31.1	10.46	58.57	257	311	A	H
													H
													H
		4824	49.79	-24.21	74	66.8	31.1	10.46	58.57	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	45.55	-28.45	74	60.53	31.1	10.47	56.55	100	0	P	H
		7311	45.17	-28.83	74	52.02	36.58	12.8	56.23	100	0	P	H
													H
													H
		4874	46.57	-27.43	74	61.55	31.1	10.47	56.55	100	0	P	V
		7311	43.12	-30.88	74	49.97	36.58	12.8	56.23	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	56.2	-17.8	74	73.11	31.2	10.42	58.53	203	320	P	H
		4924	46.57	-7.43	54	63.48	31.2	10.42	58.53	203	320	A	H
		7386	42.22	-31.78	74	51.6	36.36	12.98	58.72	100	0	P	H
													H
		4924	54.39	-19.61	74	71.3	31.2	10.42	58.53	217	61	P	V
		4924	45.02	-8.98	54	61.93	31.2	10.42	58.53	217	61	A	V
		7386	42.73	-31.27	74	52.11	36.36	12.98	58.72	100	0	P	V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 01 2412MHz		2382.45	68.26	-5.74	74	57.25	27.54	16.62	33.15	388	26	P	H
		2390	52.89	-1.11	54	41.9	27.52	16.63	33.16	388	26	A	H
	*	2412	110.6	-	-	99.65	27.48	16.65	33.18	388	26	P	H
	*	2412	102.52	-	-	91.57	27.48	16.65	33.18	388	26	A	H
													H
													H
		2377.62	66.7	-7.3	74	55.69	27.54	16.61	33.14	274	45	P	V
		2383.5	49.04	-4.96	54	38.04	27.53	16.62	33.15	274	45	A	V
	*	2412	110.8	-	-	99.85	27.48	16.65	33.18	274	45	P	V
	*	2412	102.35	-	-	91.4	27.48	16.65	33.18	274	45	A	V
													V
													V
802.11ac VHT20 CH 06 2437MHz		2388.96	61.42	-12.58	74	50.38	27.52	16.68	33.16	355	159	P	H
		2387.98	43.42	-10.58	54	32.38	27.52	16.68	33.16	355	159	A	H
	*	2437	109.8	-	-	98.83	27.43	16.75	33.21	355	159	P	H
	*	2437	99.66	-	-	88.69	27.43	16.75	33.21	355	159	A	H
		2487.33	62.34	-11.66	74	51.45	27.33	16.83	33.27	355	159	P	H
		2490.76	43.17	-10.83	54	32.3	27.32	16.83	33.28	355	159	A	H
		2389.94	64.14	-9.86	74	53.1	27.52	16.68	33.16	253	35	P	V
		2389.94	44.73	-9.27	54	33.69	27.52	16.68	33.16	253	35	A	V
	*	2437	111.88	-	-	100.91	27.43	16.75	33.21	253	35	P	V
	*	2437	102.05	-	-	91.08	27.43	16.75	33.21	253	35	A	V
		2486.56	64.16	-9.84	74	53.27	27.33	16.83	33.27	253	35	P	V
		2486.63	43.82	-10.18	54	32.93	27.33	16.83	33.27	253	35	A	V



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802.11ac VHT20 CH 11 2462MHz	*	2462	111.45	-	-	100.62	27.38	16.69	33.24	400	360	P	H
	*	2462	102.94	-	-	92.11	27.38	16.69	33.24	400	360	A	H
		2487.36	70.7	-3.3	74	59.93	27.33	16.71	33.27	400	360	P	H
		2483.92	52.33	-1.67	54	41.56	27.33	16.71	33.27	400	360	A	H
													H
													H
	*	2462	111.42	-	-	100.59	27.38	16.69	33.24	299	339	P	V
	*	2462	102.39	-	-	91.56	27.38	16.69	33.24	299	339	A	V
		2487.88	69.03	-4.97	74	58.28	27.32	16.71	33.28	299	339	P	V
		2483.52	51.7	-2.3	54	40.93	27.33	16.71	33.27	299	339	A	V
													V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 01 2412MHz		4824	53.03	-20.97	74	70.04	31.1	10.46	58.57	224	311	P	H
		4824	44.41	-9.59	54	61.42	31.1	10.46	58.57	224	311	A	H
													H
													H
		4824	49.44	-24.56	74	66.45	31.1	10.46	58.57	100	0	P	V
													V
													V
													V
802.11ac VHT20 CH 06 2437MHz		4874	46.15	-27.85	74	61.13	31.1	10.47	56.55	100	0	P	H
		7311	43.04	-30.96	74	49.89	36.58	12.8	56.23	100	0	P	H
													H
													H
		4874	47.16	-26.84	74	62.14	31.1	10.47	56.55	100	0	P	V
		7311	43.41	-30.59	74	50.26	36.58	12.8	56.23	100	0	P	V
													V
													V
802.11ac VHT20 CH 11 2462MHz		4924	54.37	-19.63	74	71.28	31.2	10.42	58.53	216	309	P	H
		4924	45.78	-8.22	54	62.69	31.2	10.42	58.53	216	309	A	H
		7386	42.8	-31.2	74	52.18	36.36	12.98	58.72	100	0	P	H
													H
		4924	49.71	-24.29	74	66.62	31.2	10.42	58.53	100	0	P	V
		7386	42.29	-31.71	74	51.67	36.36	12.98	58.72	100	0	P	V
													V
													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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 03 2422MHz		2388.26	64.31	-9.69	74	53.32	27.52	16.63	33.16	393	28	P	H
		2387.7	52.93	-1.07	54	41.94	27.52	16.63	33.16	393	28	A	H
	*	2422	106.35	-	-	95.43	27.46	16.66	33.2	393	28	P	H
	*	2422	97.69	-	-	86.77	27.46	16.66	33.2	393	28	A	H
		2483.76	61.12	-12.88	74	50.35	27.33	16.71	33.27	393	28	P	H
		2483.9	47.28	-6.72	54	36.51	27.33	16.71	33.27	393	28	A	H
		2385.88	61.93	-12.07	74	50.93	27.53	16.62	33.15	301	35	P	V
		2389.94	51.2	-2.8	54	40.21	27.52	16.63	33.16	301	35	A	V
	*	2422	104.82	-	-	93.9	27.46	16.66	33.2	301	35	P	V
	*	2422	96.94	-	-	86.02	27.46	16.66	33.2	301	35	A	V
		2484.04	61.82	-12.18	74	51.05	27.33	16.71	33.27	301	35	P	V
		2490.13	47.42	-6.58	54	36.66	27.32	16.72	33.28	301	35	A	V
802.11ac VHT40 CH 06 2437MHz		2388.26	62.04	-11.96	74	51	27.52	16.68	33.16	225	71	P	H
		2389.8	47.55	-6.45	54	36.51	27.52	16.68	33.16	225	71	A	H
	*	2437	103.56	-	-	92.59	27.43	16.75	33.21	225	71	P	H
	*	2437	94.56	-	-	83.59	27.43	16.75	33.21	225	71	A	H
		2488.38	60.94	-13.06	74	50.07	27.32	16.83	33.28	225	71	P	H
		2483.69	47.76	-6.24	54	36.88	27.33	16.82	33.27	225	71	A	H
		2389.94	64.72	-9.28	74	53.68	27.52	16.68	33.16	256	39	P	V
		2389.8	48.72	-5.28	54	37.68	27.52	16.68	33.16	256	39	A	V
	*	2437	106	-	-	95.03	27.43	16.75	33.21	256	39	P	V
	*	2437	96.65	-	-	85.68	27.43	16.75	33.21	256	39	A	V
		2483.55	63.26	-10.74	74	52.38	27.33	16.82	33.27	256	39	P	V
		2483.62	49.92	-4.08	54	39.04	27.33	16.82	33.27	256	39	A	V



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802.11ac VHT40 CH 09 2452MHz		2389.1	61.42	-12.58	74	50.43	27.52	16.63	33.16	373	343	P	H
		2386.86	46.89	-7.11	54	35.89	27.53	16.62	33.15	373	343	A	H
	*	2452	105.48	-	-	94.63	27.4	16.68	33.23	373	343	P	H
	*	2452	97.14	-	-	86.29	27.4	16.68	33.23	373	343	A	H
		2483.62	63.34	-10.66	74	52.57	27.33	16.71	33.27	373	343	P	H
		2484.39	52.92	-1.08	54	42.15	27.33	16.71	33.27	373	343	A	H
		2386.3	60.98	-13.02	74	49.98	27.53	16.62	33.15	298	351	P	V
		2386.58	46.87	-7.13	54	35.87	27.53	16.62	33.15	298	351	A	V
	*	2452	105.9	-	-	95.05	27.4	16.68	33.23	298	351	P	V
	*	2452	97.8	-	-	86.95	27.4	16.68	33.23	298	351	A	V
		2484.11	64.36	-9.64	74	53.59	27.33	16.71	33.27	298	351	P	V
		2484.39	52.13	-1.87	54	41.36	27.33	16.71	33.27	298	351	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 03 2422MHz		4844	43.45	-30.55	74	60.45	31.1	10.46	58.56	100	0	P	H
		7266	43.39	-30.61	74	52.72	36.6	12.94	58.87	100	0	P	H
													H
													H
		4844	41.77	-32.23	74	58.77	31.1	10.46	58.56	100	0	P	V
		7266	43.62	-30.38	74	52.95	36.6	12.94	58.87	100	0	P	V
													V
													V
802.11ac VHT40 CH 06 2437MHz		4874	41.74	-32.26	74	56.72	31.1	10.47	56.55	100	0	P	H
		7311	42.43	-31.57	74	49.28	36.58	12.8	56.23	100	0	P	H
													H
													H
		4874	41.22	-32.78	74	56.2	31.1	10.47	56.55	100	0	P	V
		7311	41.86	-32.14	74	48.71	36.58	12.8	56.23	100	0	P	V
													V
													V
802.11ac VHT40 CH 09 2452MHz		4904	46.39	-27.61	74	63.37	31.12	10.43	58.53	100	0	P	H
		7356	42.74	-31.26	74	52.06	36.48	12.97	58.77	100	0	P	H
													H
													H
		4904	43.97	-30.03	74	60.95	31.12	10.43	58.53	100	0	P	V
		7356	42.93	-31.07	74	52.25	36.48	12.97	58.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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	Peak or Average
H/V	Horizontal or Vertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path 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) + Path 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”.



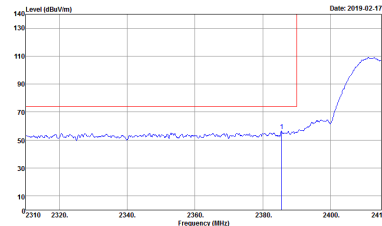
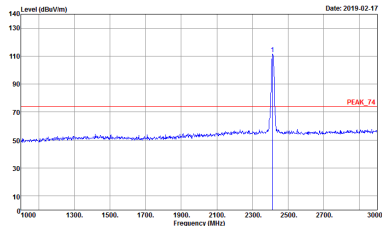
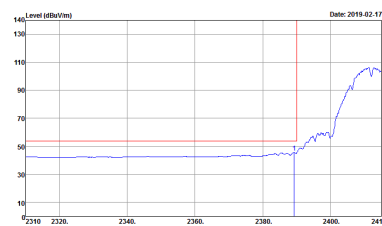
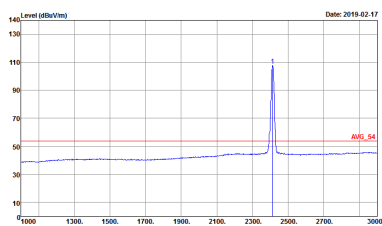
Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jack Cheng, Lance Chiang, and Chuan Chu	Temperature :	22~24°C
		Relative Humidity :	52~60%

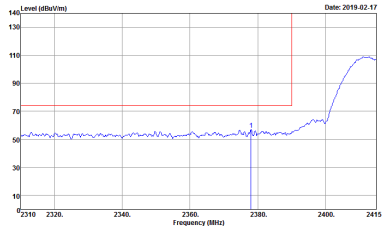
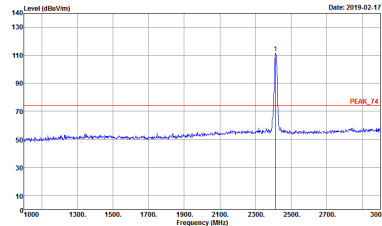
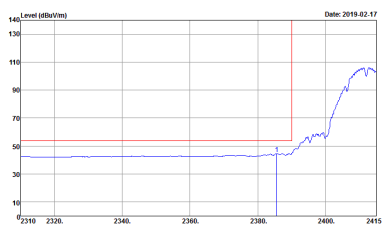
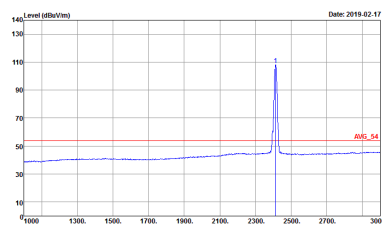
Note symbol

-L	Low channel location
-R	High channel location

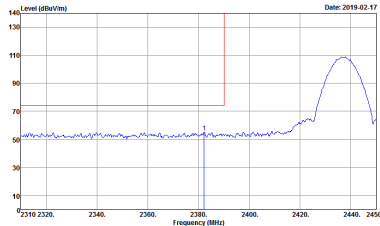
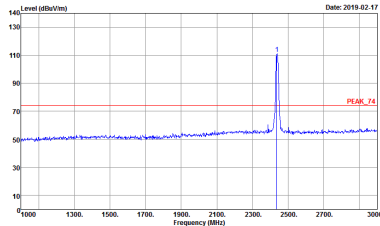
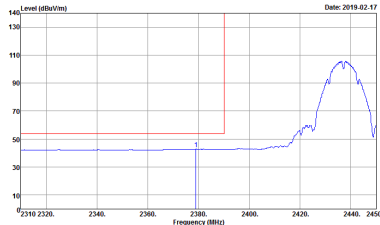
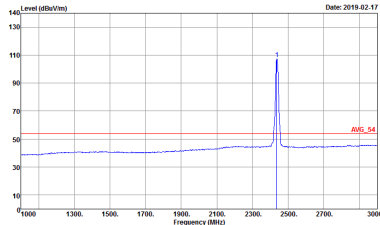
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Date: 2019-02-17 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5	 Date: 2019-02-17 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5
Avg.	 Date: 2019-02-17 Site : 03CH12-HY Condition : AVG_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5	 Date: 2019-02-17 Site : 03CH12-HY Condition : AVG_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5

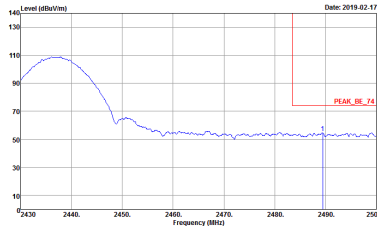
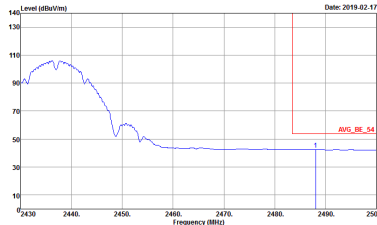


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5

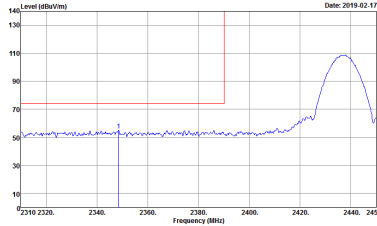
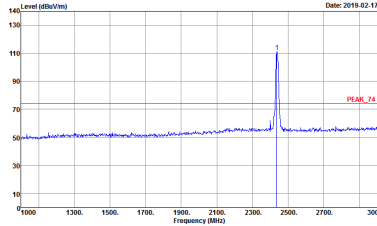
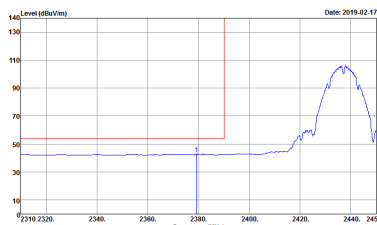
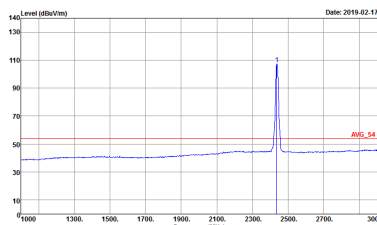


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 : 20.5	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 : 20.5
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 : 20.5	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 : 20.5

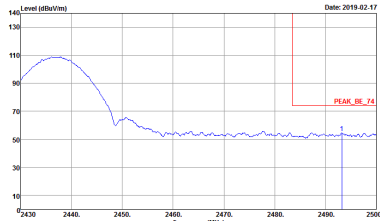
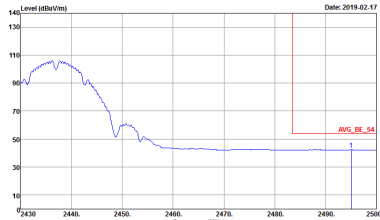


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 11 Setting : 20.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:0.0100Hz SWT:Auto Project : 911730-01 Mode : 11 Setting : 20.5	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5

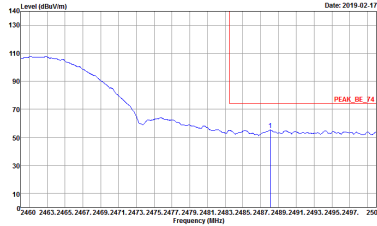
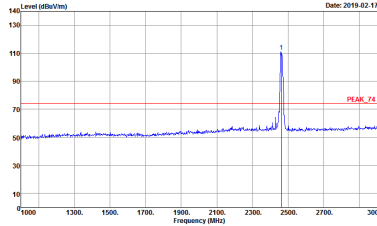
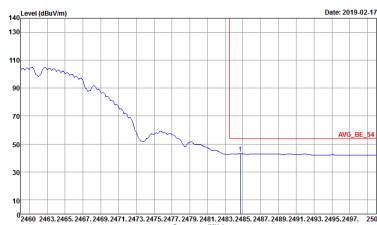
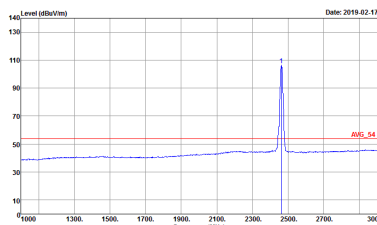


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 Setting : 20.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 11 Setting : 20.5	Left blank

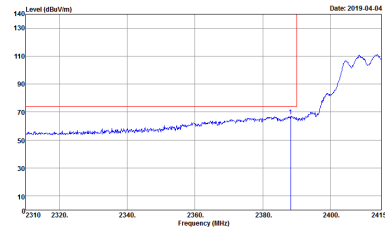
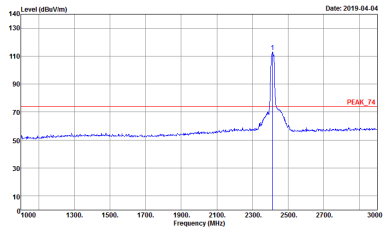
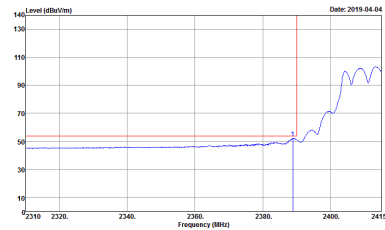
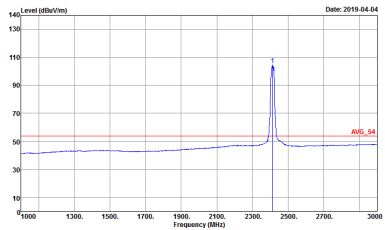


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 12 Setting : 20.5	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 12 Setting : 20.5
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 12 Setting : 20.5	Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 12 Setting : 20.5

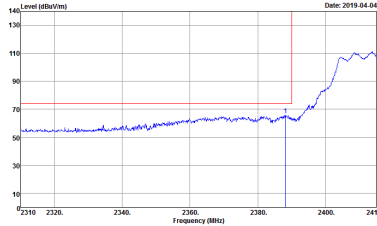
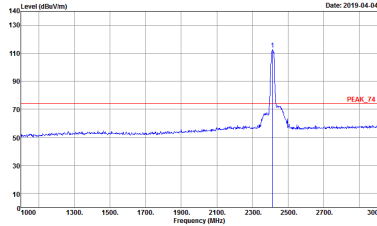
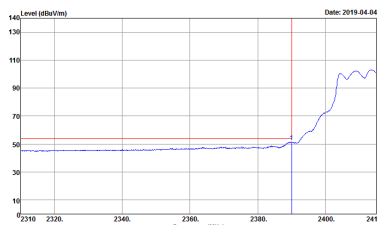
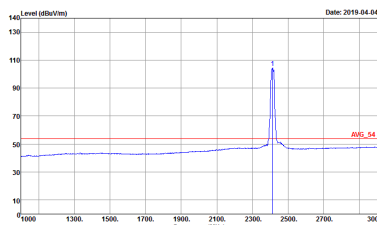


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5

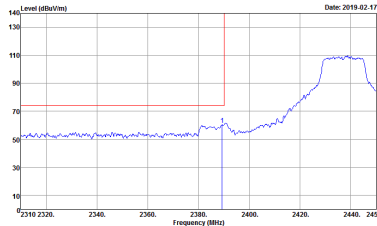
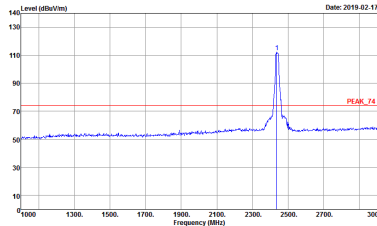
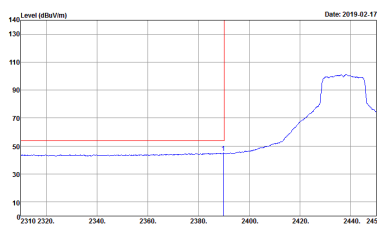
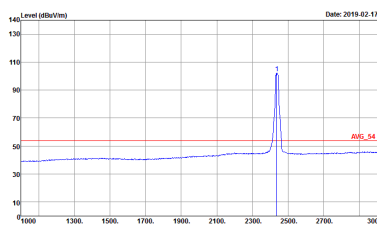
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17
Avg.	 Site : 03CH12-HY Condition : AVG_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17	 Site : 03CH12-HY Condition : AVG_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17

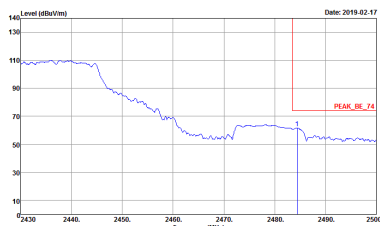
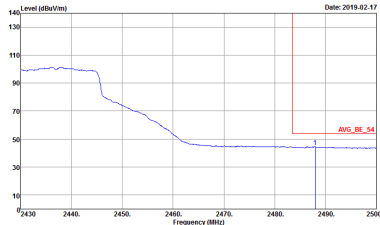


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17

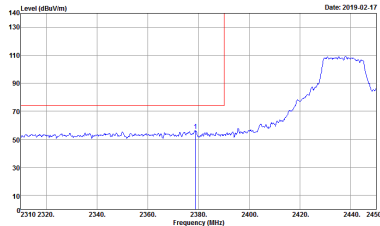
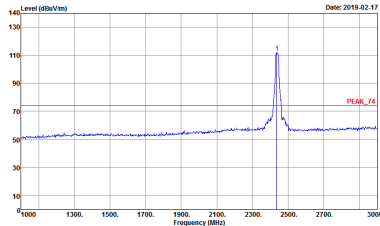
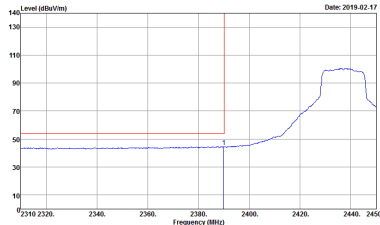
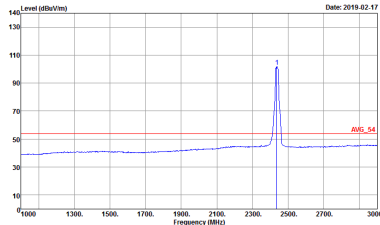


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5

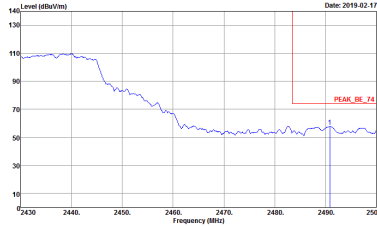
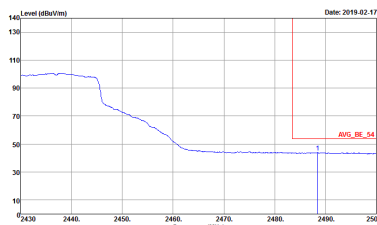


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 14 Setting : 20.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:1.0000Hz SWT:Auto Project : 911730-01 Mode : 14 Setting : 20.5	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5

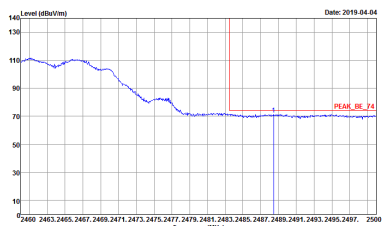
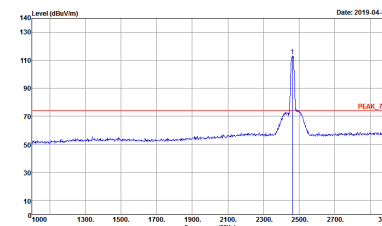
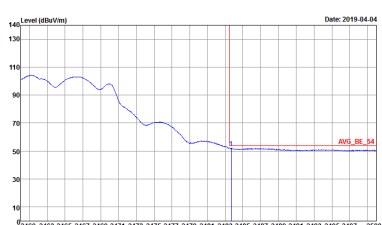
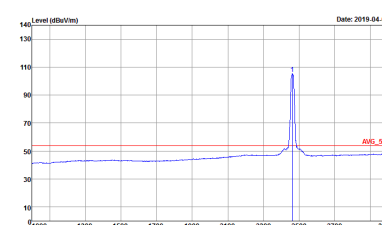


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 14 Setting : 20.5	Left Blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:1.0000Hz SWT:Auto Project : 911730-01 Mode : 14 Setting : 20.5	Left Blank

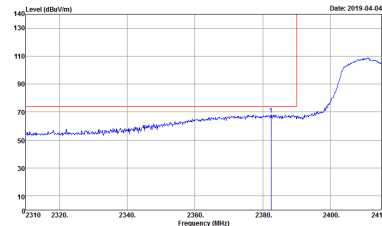
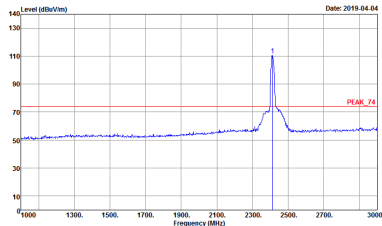
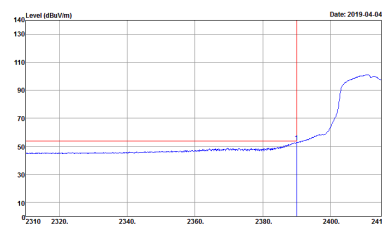
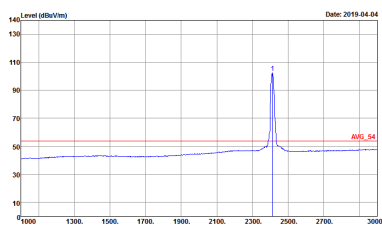


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 15 Setting : 16.5	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 15 Setting : 16.5
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 15 Setting : 16.5	Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 15 Setting : 16.5

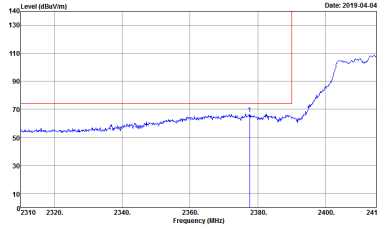
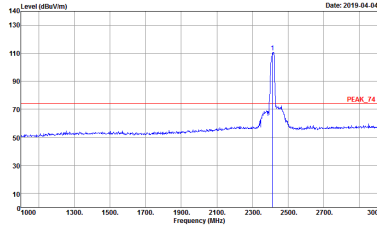
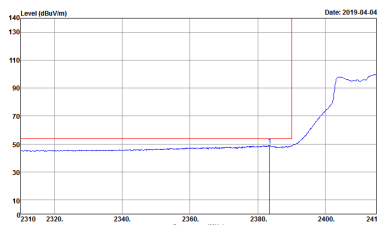
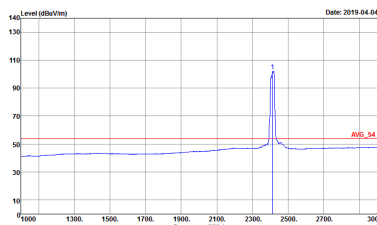


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5

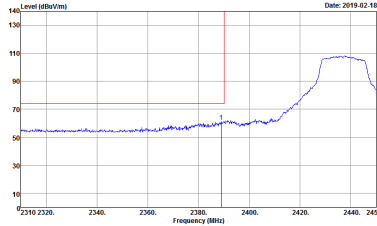
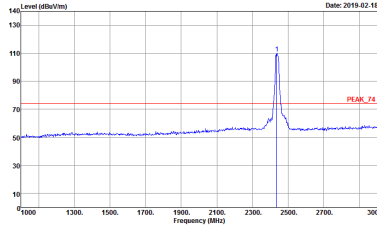
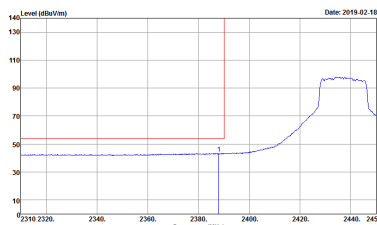
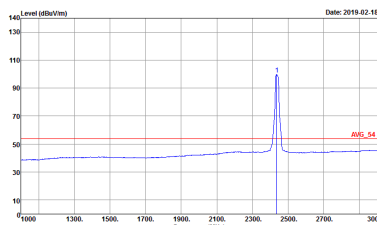
2.4GHz 2400~2483.5MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5	 Site : 03CH12-HY Condition : AVG_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5

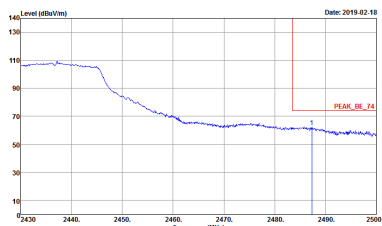
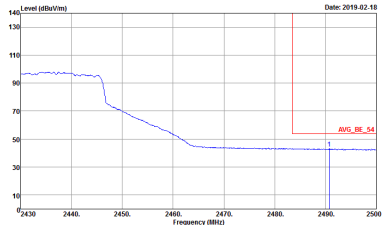


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 16 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 16 Setting : 16.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 16 Setting : 16.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 16 Setting : 16.5

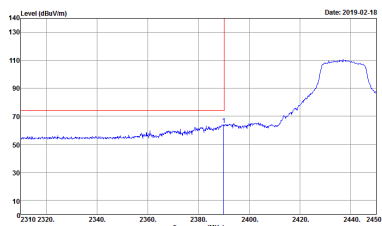
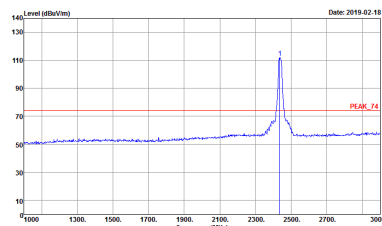
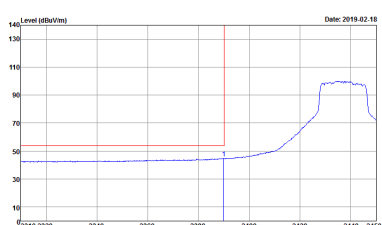
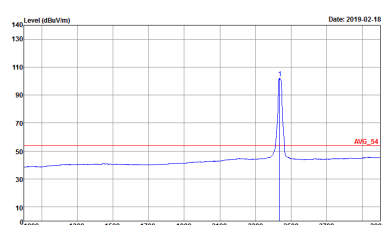


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 17 Setting : 20	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 17 Setting : 20
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 17 Setting : 20	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 17 Setting : 20

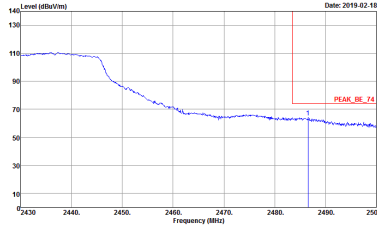
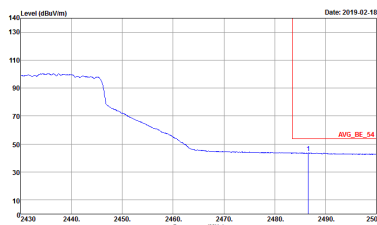


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 17 Setting : 20	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:1.0000Hz SWT:Auto Project : 911730-01 Mode : 17 Setting : 20	Left blank

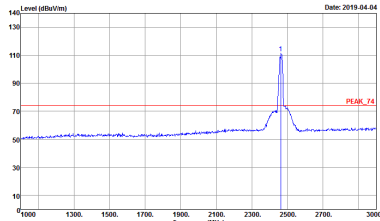
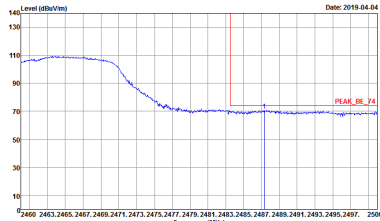
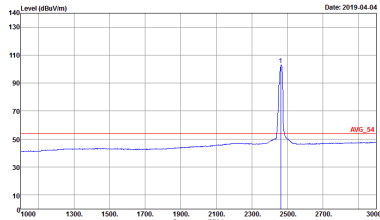
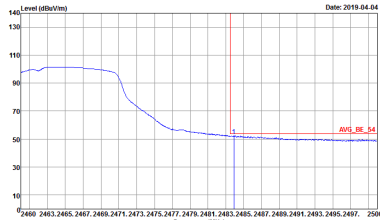


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20

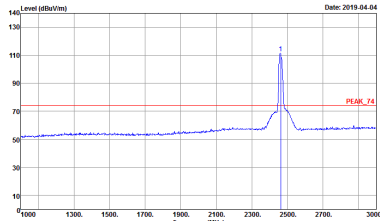
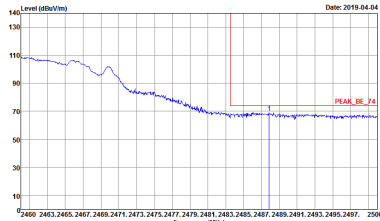
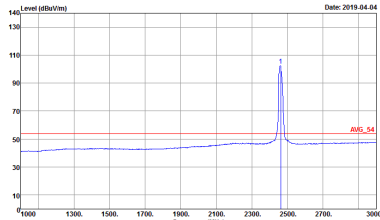
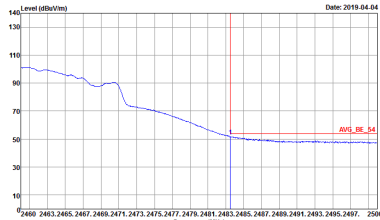


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 17 Setting : 20	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:1.0000Hz SWT:Auto Project : 911730-01 Mode : 17 Setting : 20	Left blank

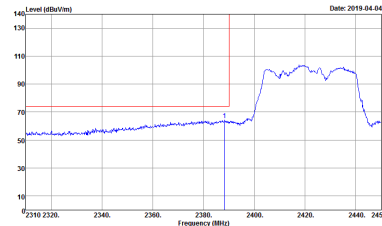
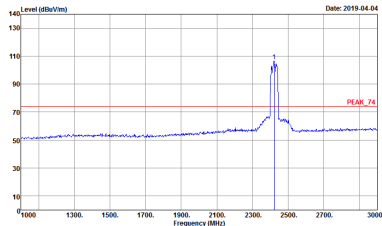
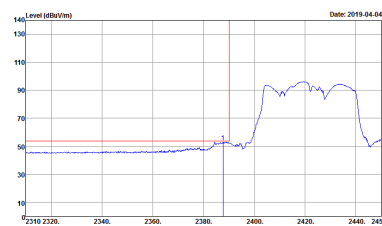
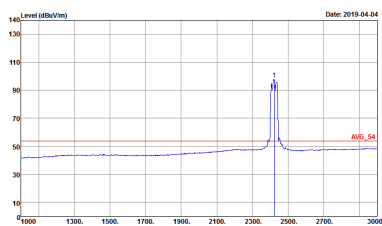


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5
Avg.	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5

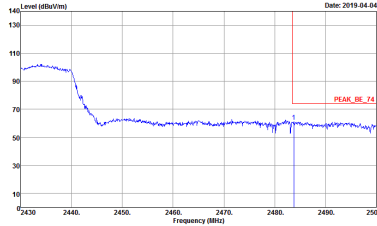
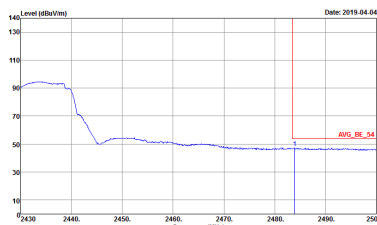


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5

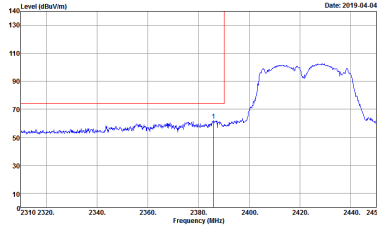
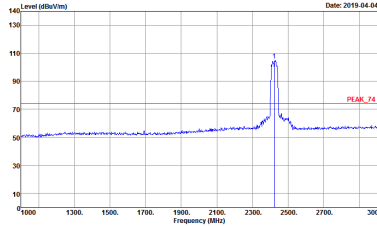
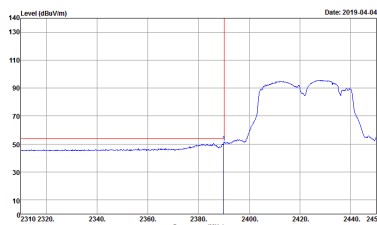
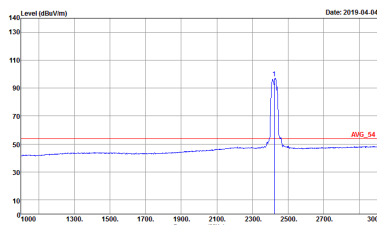
2.4GHz 2400~2483.5MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5

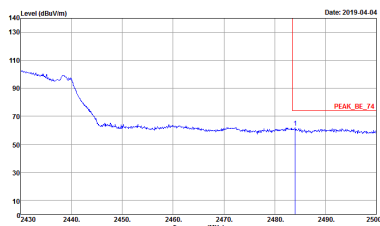
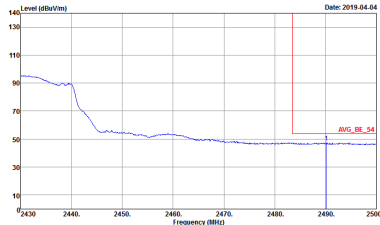


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 19 Setting : 12.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 19 Setting : 12.5	Left blank

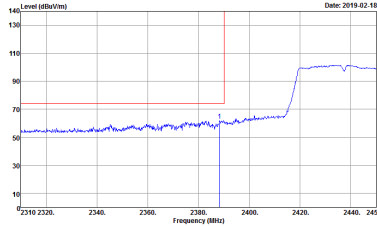
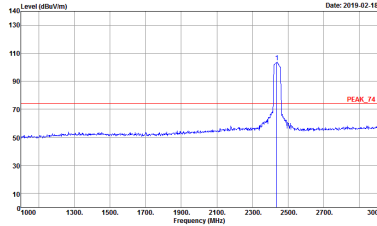
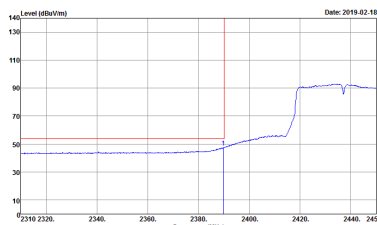
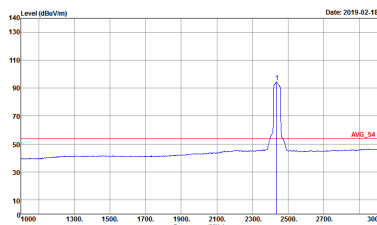


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Project : 911730-01 Mode : 19 Setting : 12.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Project : 911730-01 Mode : 19 Setting : 12.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Project : 911730-01 Mode : 19 Setting : 12.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Project : 911730-01 Mode : 19 Setting : 12.5

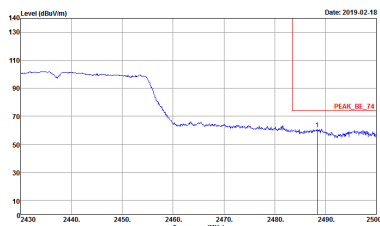
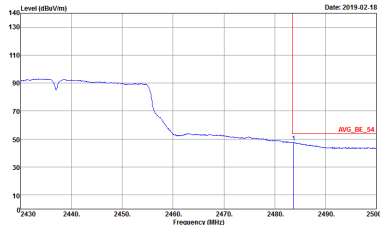


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5	Left blank

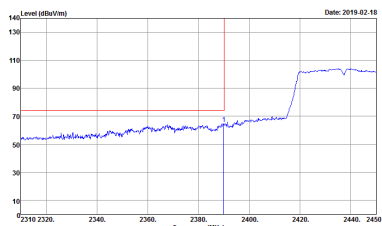
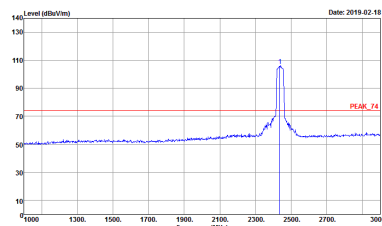
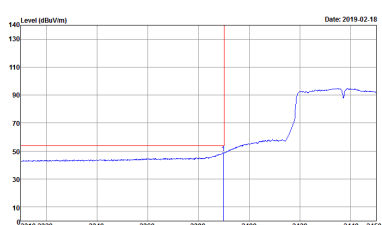
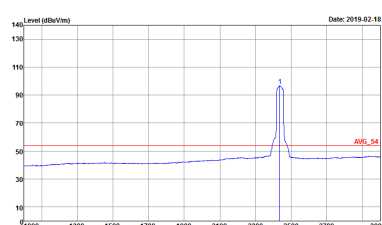


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18

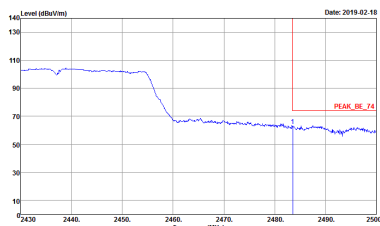
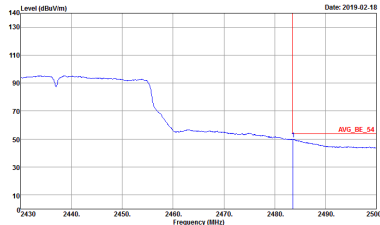


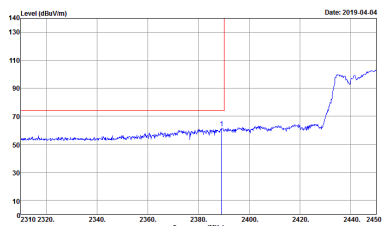
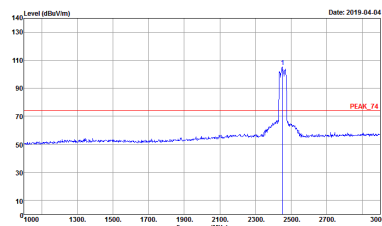
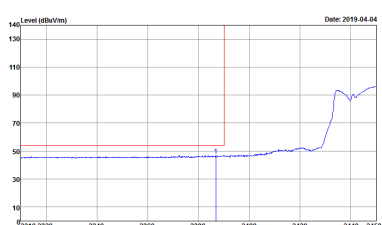
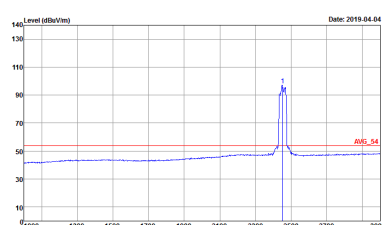
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 20 Setting : 18	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 20 Setting : 18	Left blank



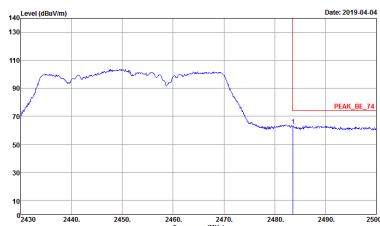
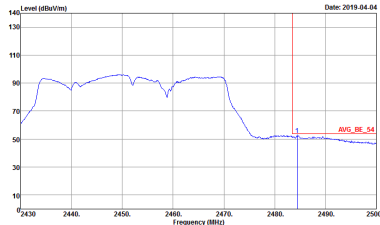
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019.02.18	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019.02.18
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019.02.18	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019.02.18



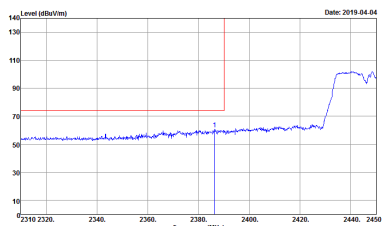
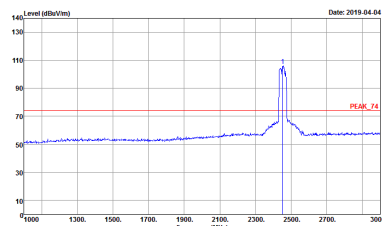
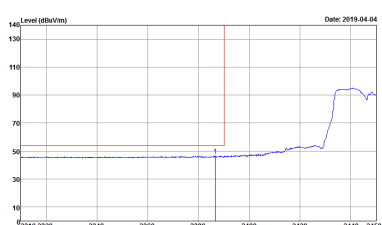
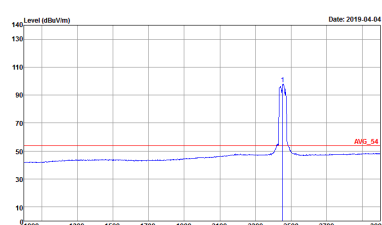
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019-02-18	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : Peak Mode : 911730-01 Setting : 20 Date: 2019-02-18	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5

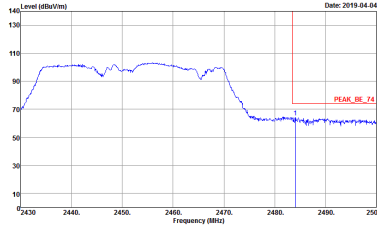
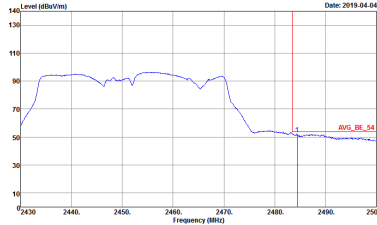


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 21 Setting : 12.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 21 Setting : 12.5	Left blank

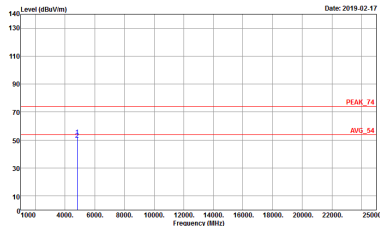
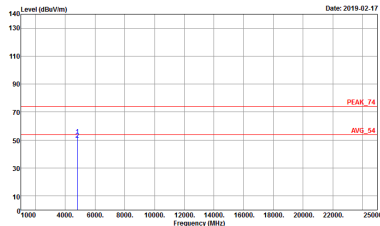


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5

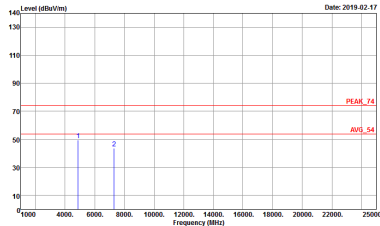
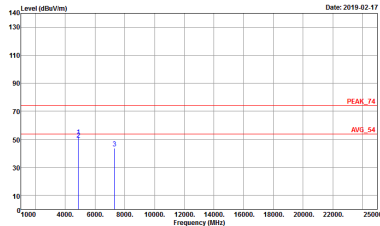


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CHIZ-HY Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 21 Setting : 12.5	Left blank
Avg.	 Site : 03CHIZ-HY Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 911730-01 Mode : 21 Setting : 12.5	Left blank

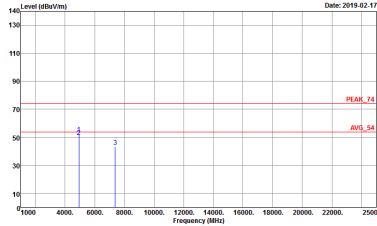
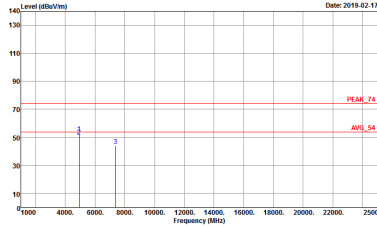
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 10 Setting : 20.5



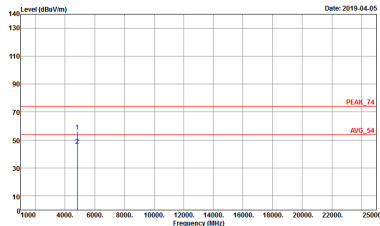
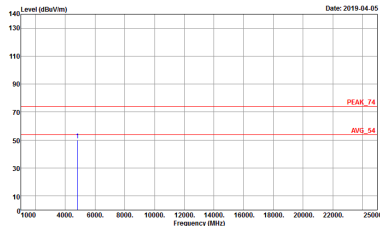
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 11 Setting : 20.5



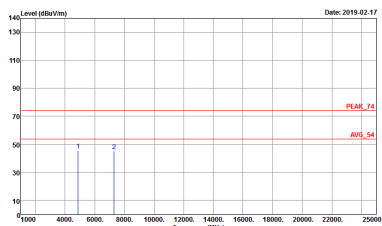
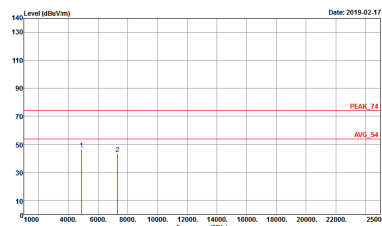
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 12 Setting : 20.5

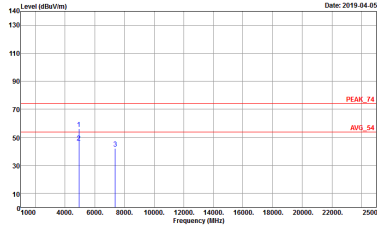
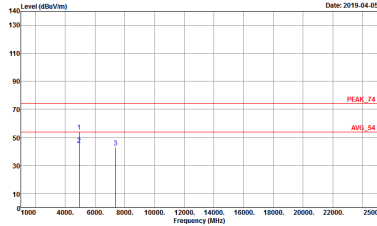


2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 13 Setting : 17

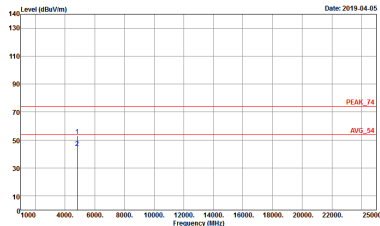
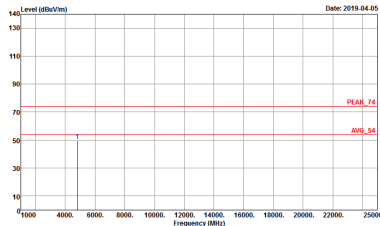


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 14 Setting : 20.5

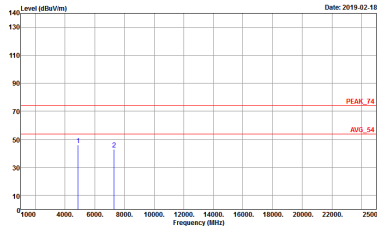
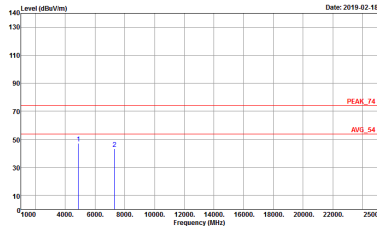
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 15 Setting : 16.5

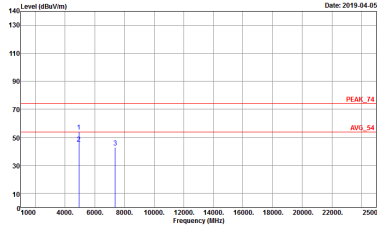
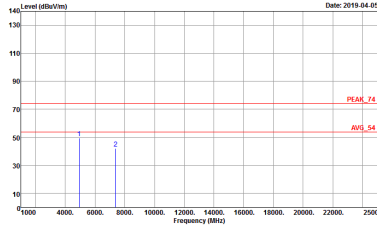


2.4GHz 2400~2483.5MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 16 Setting : 16.5



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 17 Setting : 20

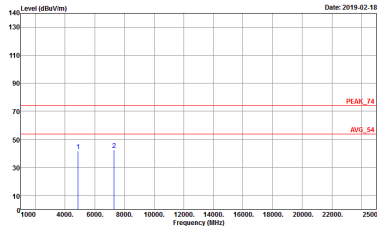
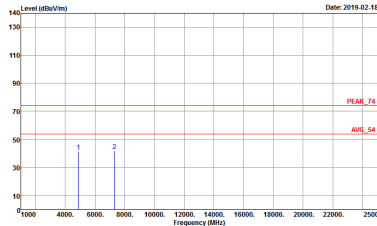
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 18 Setting : 16.5



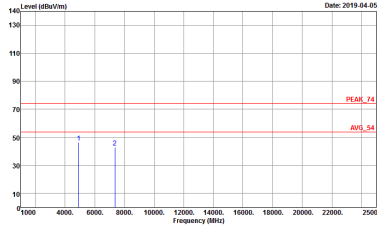
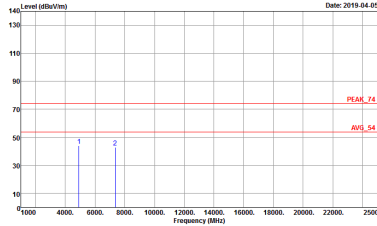
2.4GHz 2400~2483.5MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH03 2422MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5	Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 19 Setting : 12.5

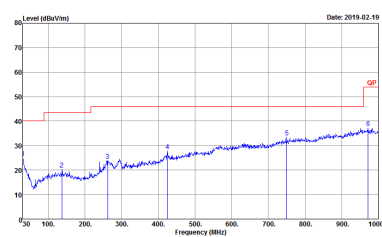
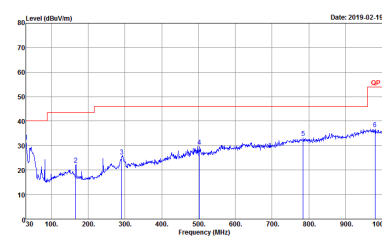


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 20 Setting : 18



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 911730-01 Mode : 21 Setting : 12.5

2.4GHz 2400~2483.5MHz
Emission below 1GHz
2.4GHz WIFI 802.11ac VHT20 (LF)

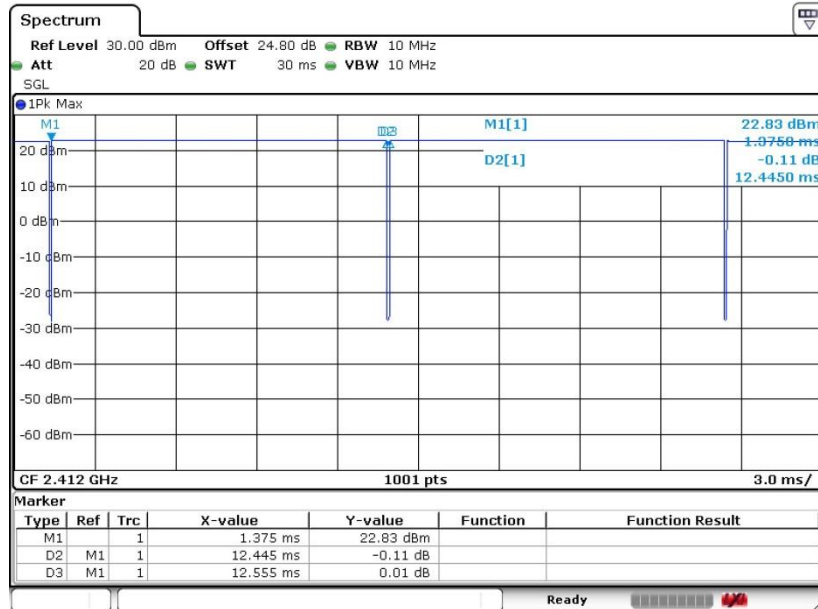
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ac VHT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m B1LO6_6111D_37059 HORIZONTAL Detector : Peak Project : 911730-01 Mode : 25	 Site : 03CH12-HY Condition : QP 3m B1LO6_6111D_37059 VERTICAL Detector : Peak Project : 911730-01 Mode : 25

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
1	802.11b	99.12	12445.00	0.08	10Hz	0.04
2	802.11b	99.44	12455.00	0.08	10Hz	0.02
1+2	802.11b for Ant. 1	99.28	12450.00	0.08	10Hz	0.03
1+2	802.11b for Ant. 2	99.36	12450.00	0.08	10Hz	0.03
1	802.11g	95.60	2065.00	0.48	1kHz	0.20
2	802.11g	95.59	2060.00	0.49	1kHz	0.20
1+2	802.11g for Ant. 1	95.59	2060.00	0.49	1kHz	0.20
1+2	802.11g for Ant. 2	95.60	2065.00	0.48	1kHz	0.20
1	2.4GHz 802.11n HT20	95.30	1925.00	0.52	1kHz	0.21
2	2.4GHz 802.11n HT20	95.30	1925.00	0.52	1kHz	0.21
1+2	2.4GHz 802.11n HT20 for Ant. 1	95.06	1890.00	0.53	1kHz	0.22
1+2	2.4GHz 802.11n HT20 for Ant. 2	95.05	1893.00	0.53	1kHz	0.22
1	2.4GHz 802.11n HT40	91.43	949.00	1.05	3kHz	0.39
2	2.4GHz 802.11n HT40	91.60	949.00	1.05	3kHz	0.38
1+2	2.4GHz 802.11n HT40 for Ant. 1	91.68	926.00	1.08	3kHz	0.38
1+2	2.4GHz 802.11n HT40 for Ant. 2	91.61	927.00	1.08	3kHz	0.38
1	2.4GHz 802.11ac20	95.07	1930.00	0.52	1kHz	0.22
2	2.4GHz 802.11ac20	95.31	1930.00	0.52	1kHz	0.21
1+2	2.4GHz 802.11ac20 for Ant. 1	95.07	1930.00	0.52	1kHz	0.22
1+2	2.4GHz 802.11ac20 for Ant. 2	95.07	1930.00	0.52	1kHz	0.22
1	2.4GHz 802.11ac40	91.89	952.00	1.05	3kHz	0.37
2	2.4GHz 802.11ac40	91.68	954.00	1.05	3kHz	0.38
1+2	2.4GHz 802.11ac40 for Ant. 1	91.12	948.00	1.05	3kHz	0.40
1+2	2.4GHz 802.11ac40 for Ant. 2	91.61	950.00	1.05	3kHz	0.38

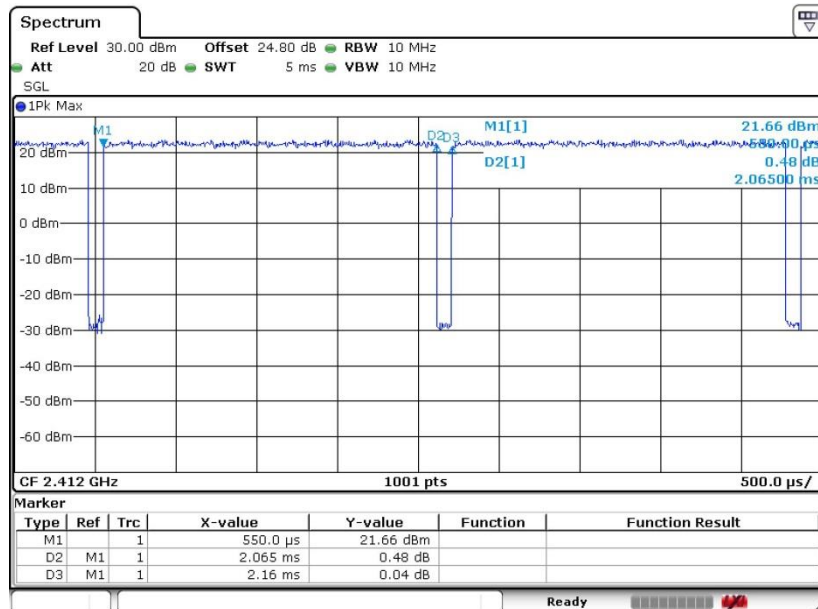
<Ant. 1>

802.11b



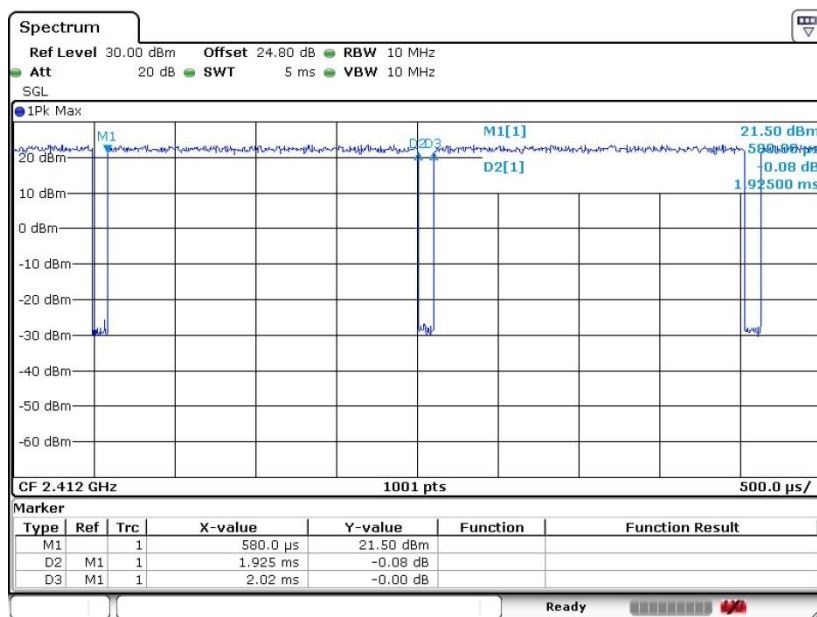
Date: 28 JAN 2019 15:26:24

802.11g



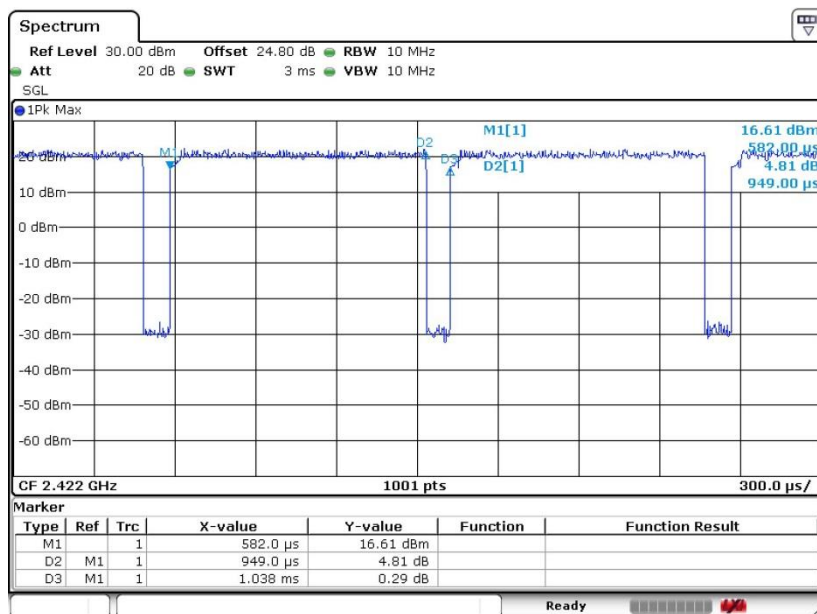
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802.11n HT20



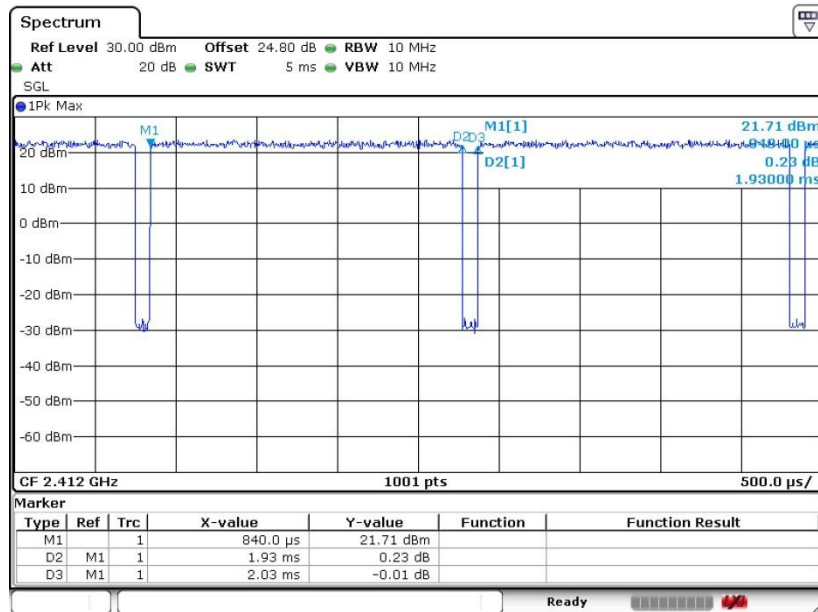
Date: 28 JAN 2019 15:31:01

802.11n HT40



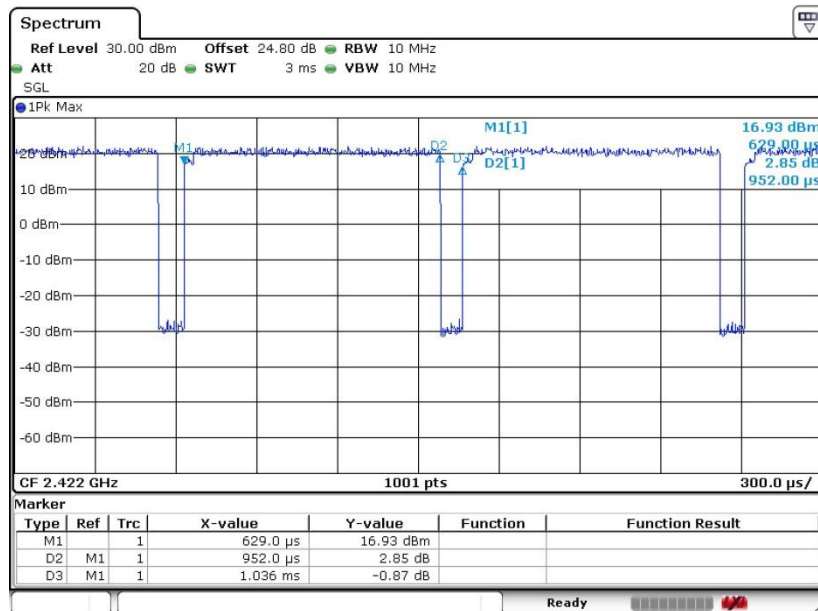
Date: 28 JAN 2019 15:33:46

802.11ac VHT20



Date: 28 JAN 2019 15:34:36

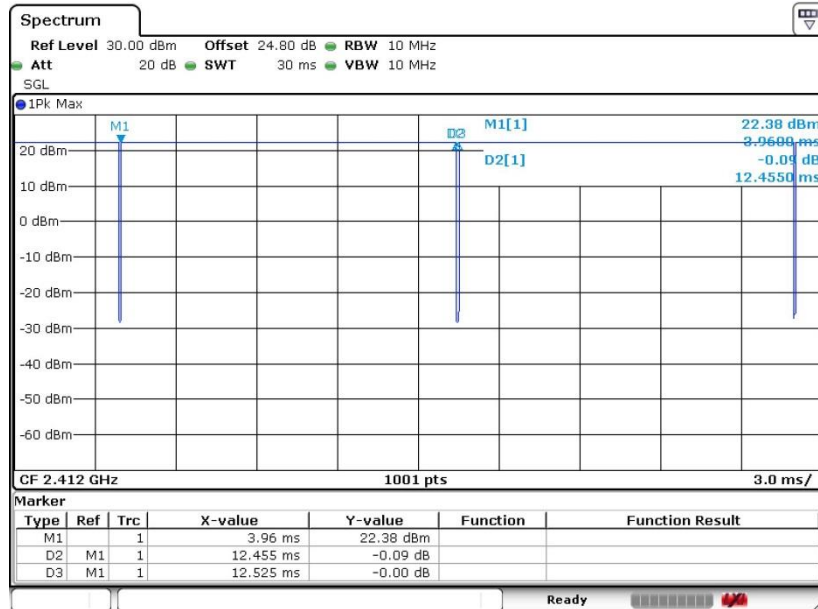
802.11ac VHT40



Date: 28 JAN 2019 15:36:59

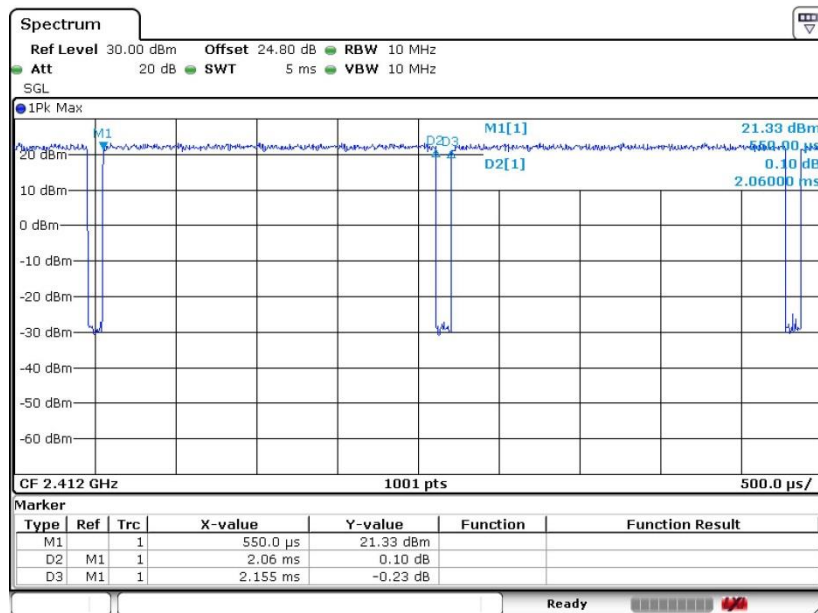
<Ant. 2>

802.11b



Date: 28 JAN 2019 15:27:10

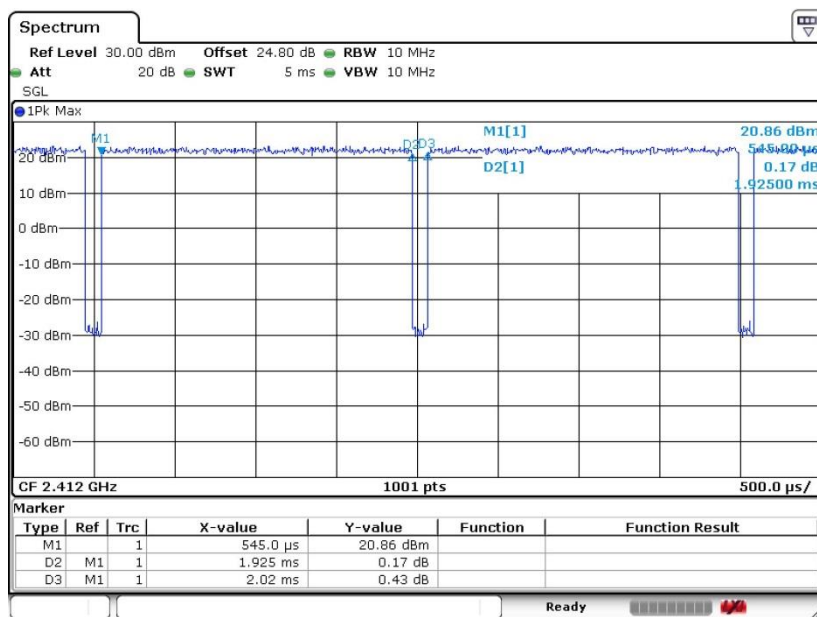
802.11g



Date: 28 JAN 2019 15:29:40

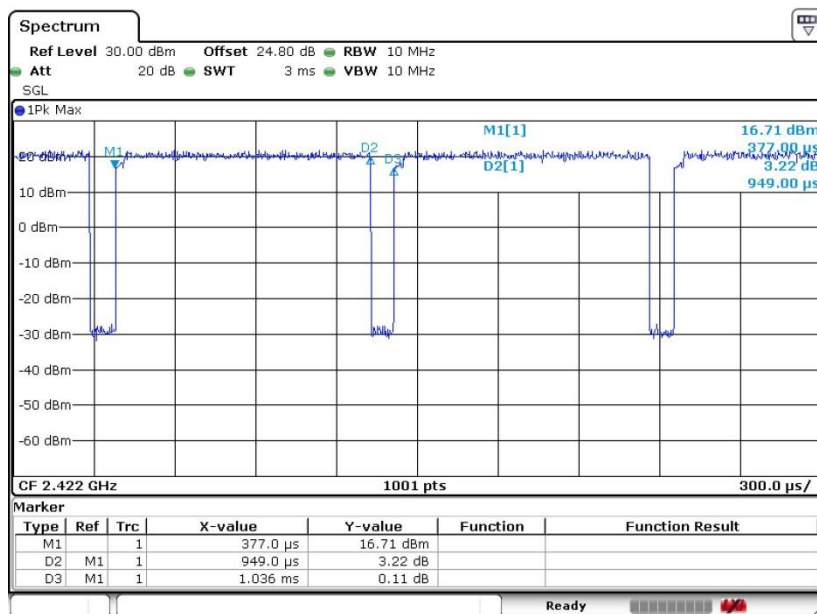


802.11n HT20



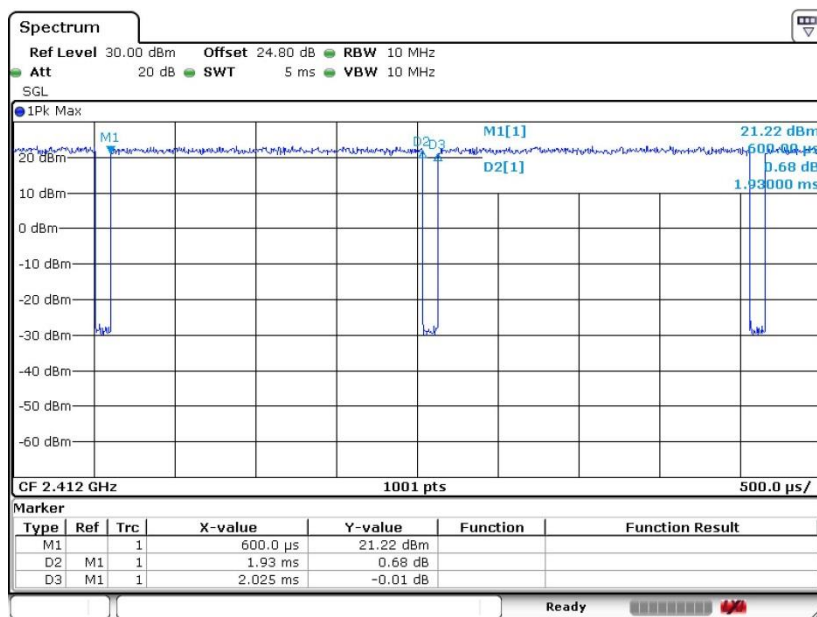
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802.11n HT40



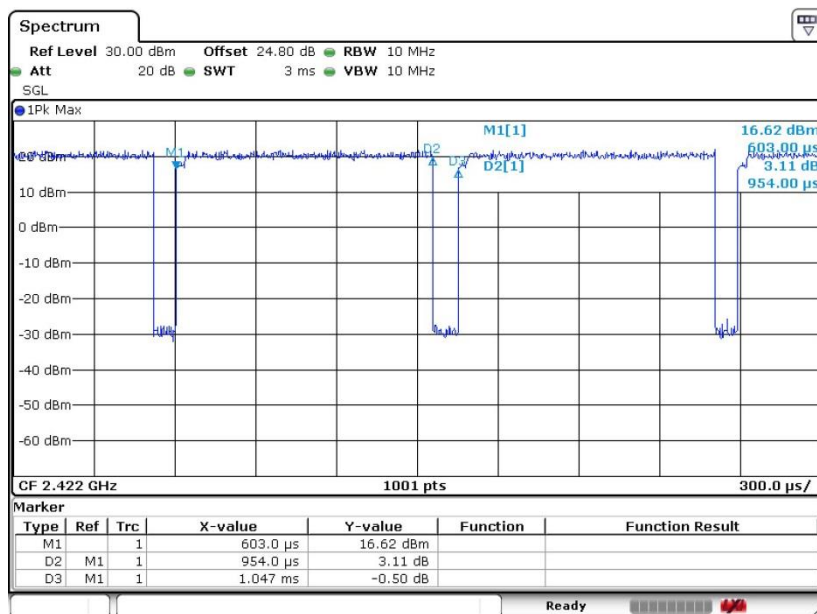
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802.11ac VHT20



Date: 28 JAN 2019 15:35:21

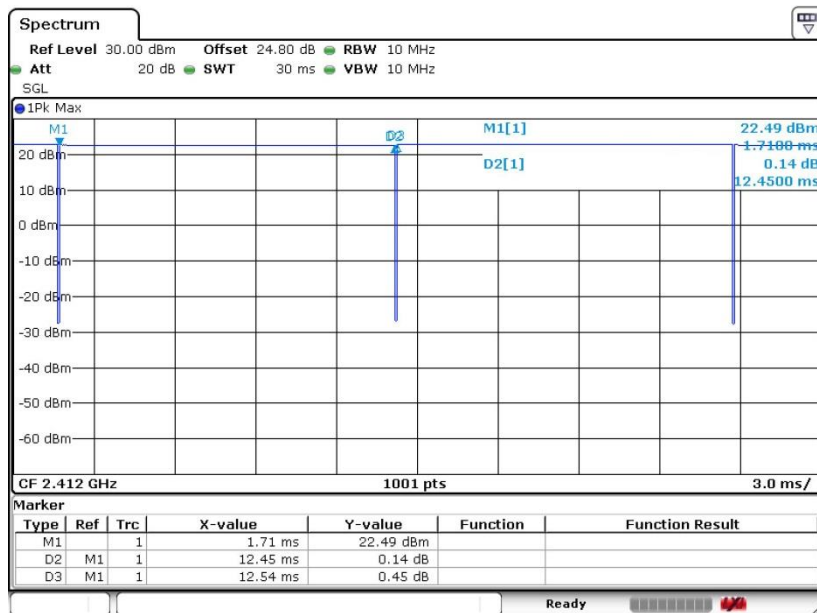
802.11ac VHT40



Date: 28 JAN 2019 15:36:17

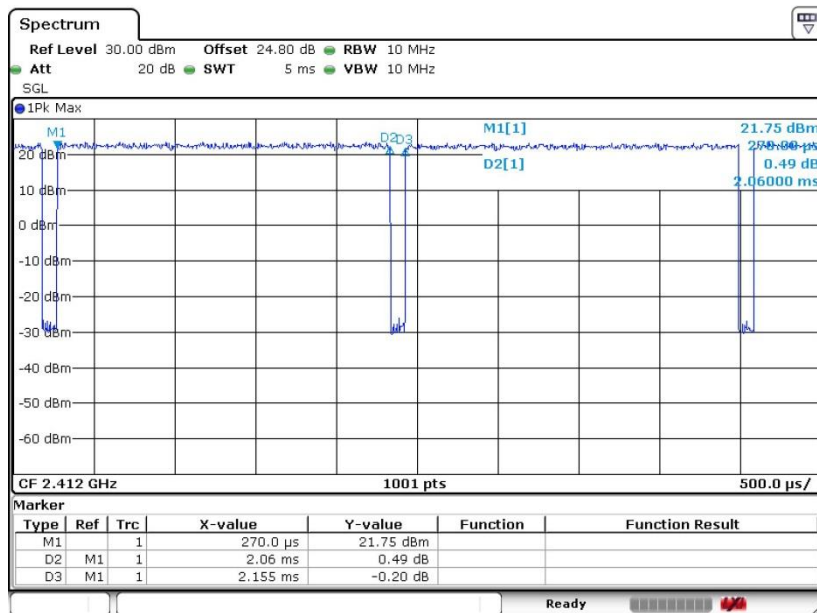
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802.11b



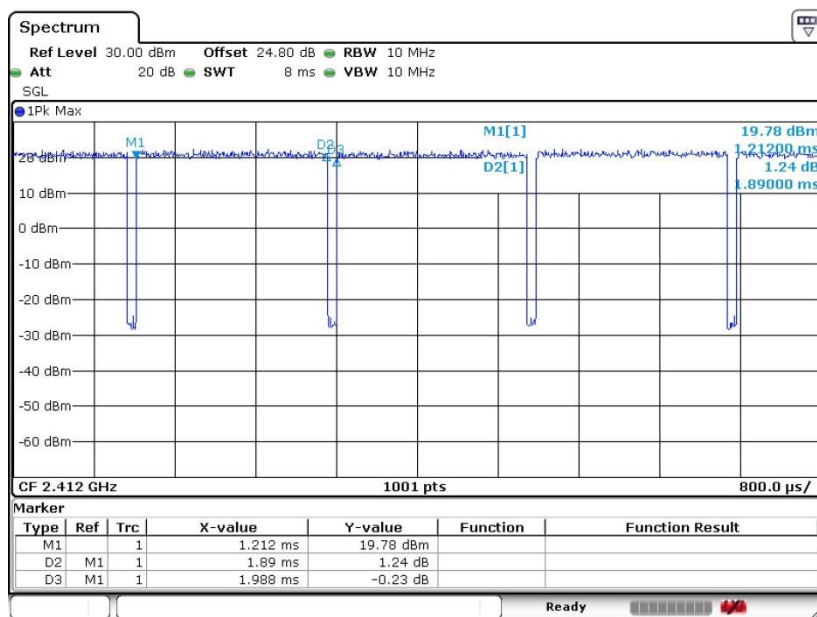
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802.11g



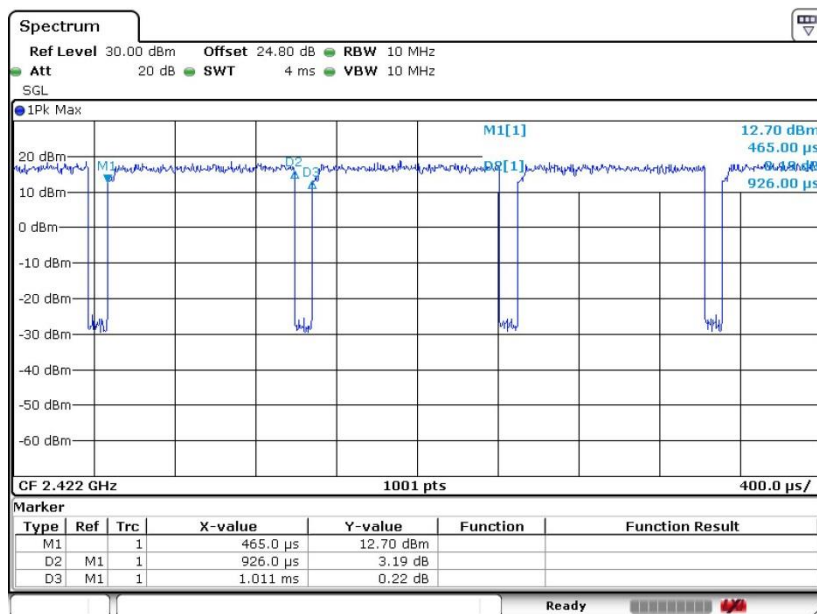
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802.11n HT20



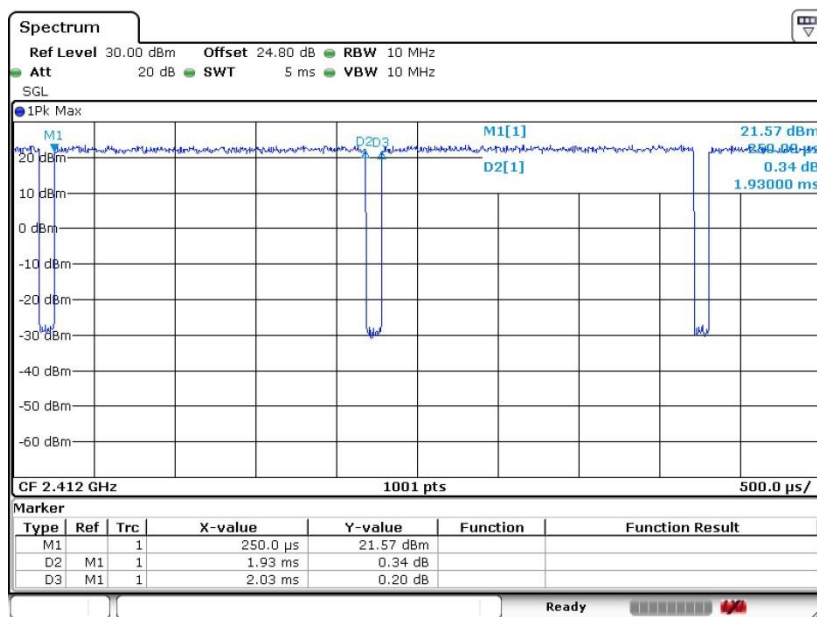
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802.11n HT40



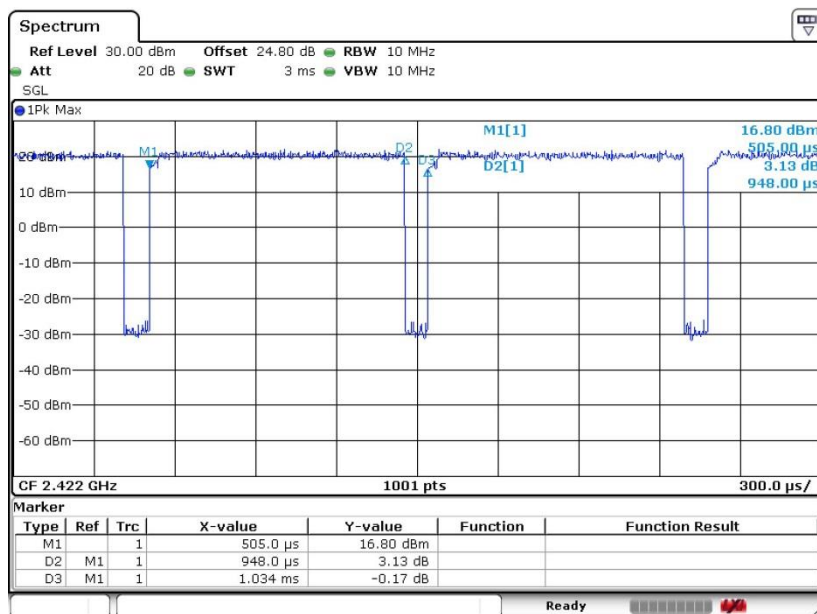
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802.11ac VHT20



Date: 28 JAN 2019 15:41:12

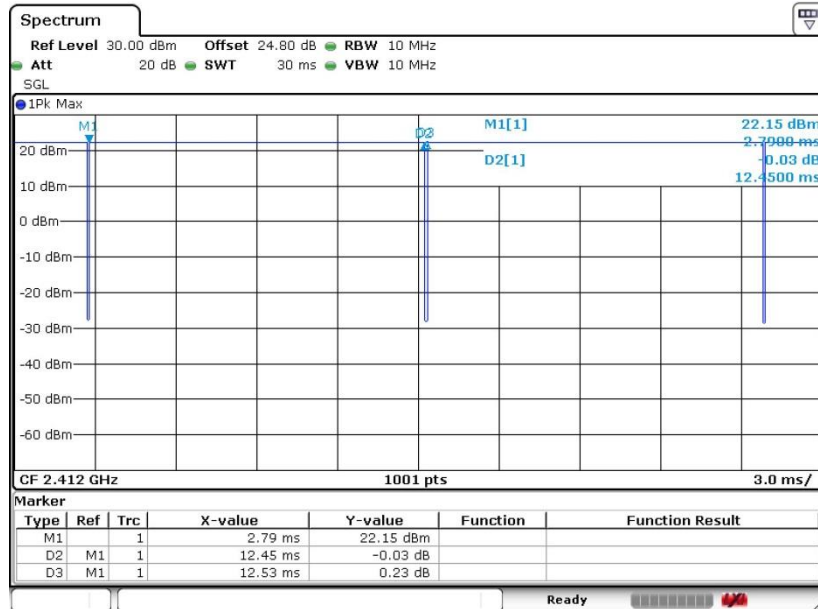
802.11ac VHT40



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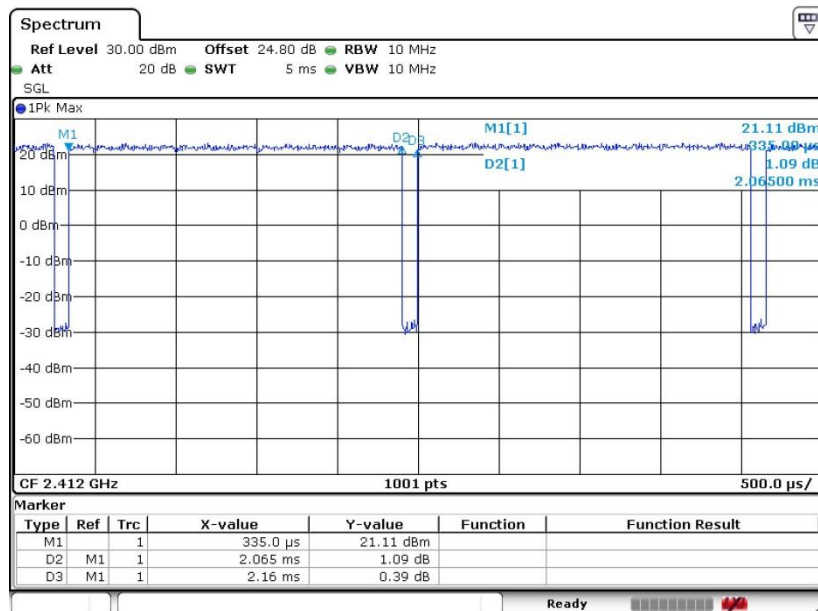
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802.11b



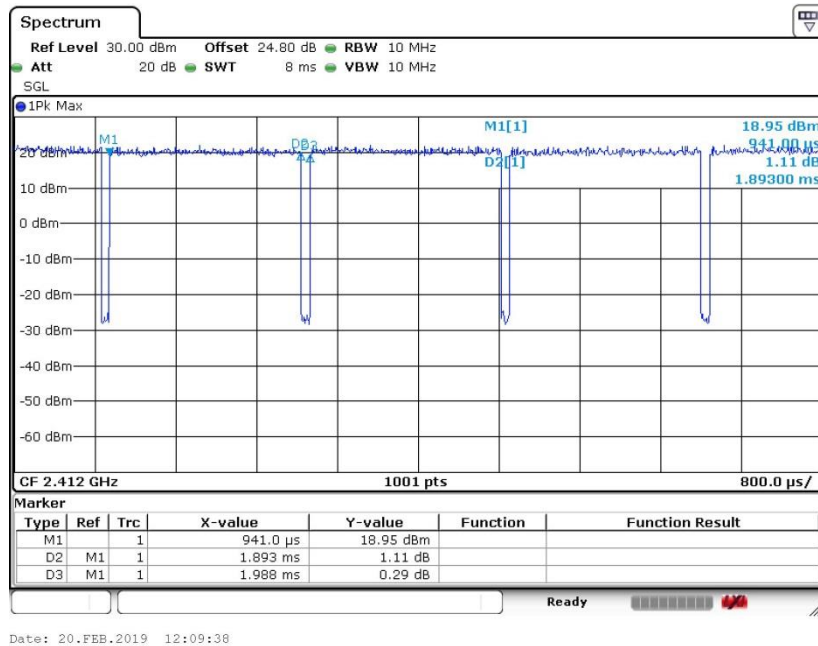
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802.11g

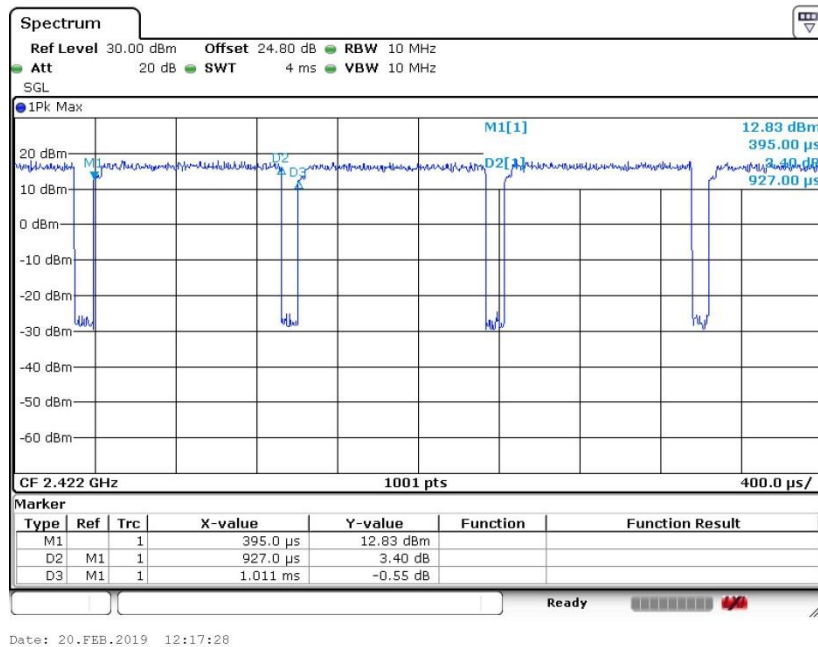


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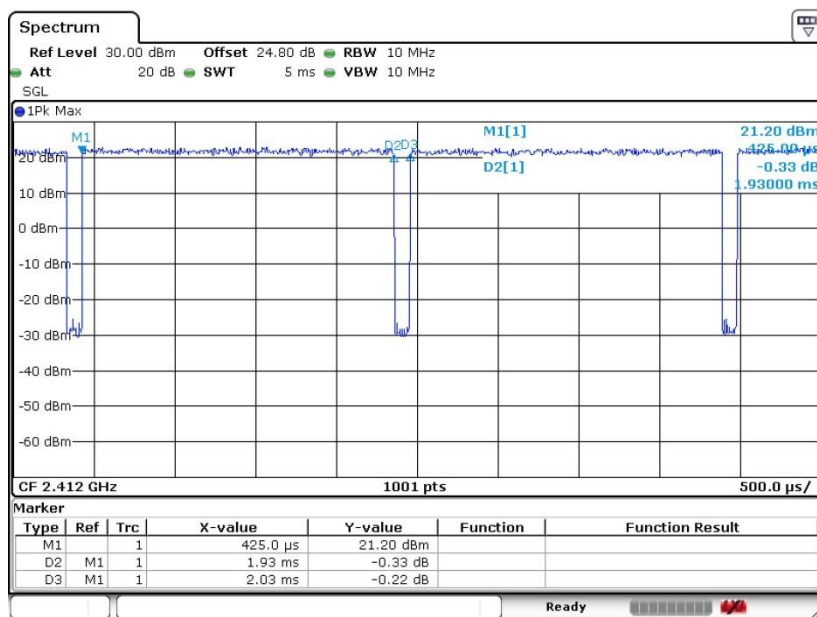


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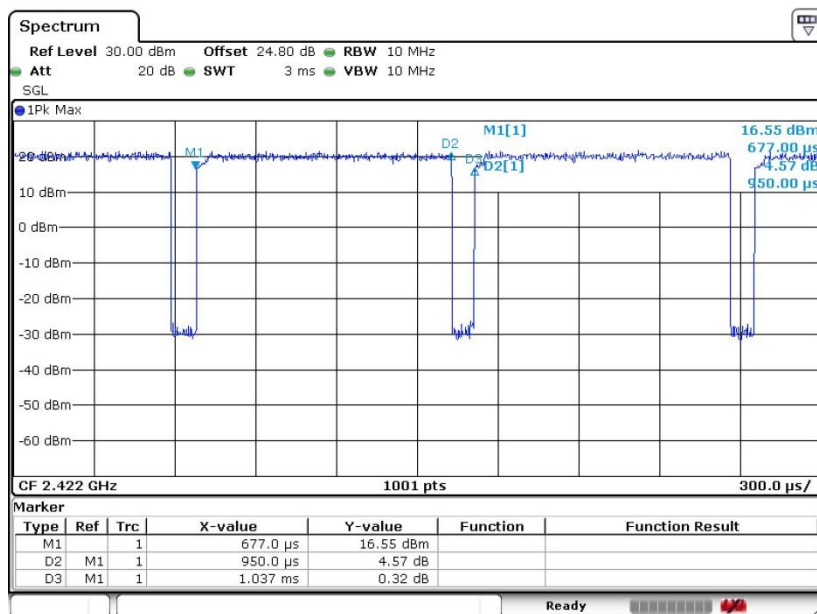


802.11ac VHT20



Date: 28 JAN 2019 15:41:57

802.11ac VHT40



Date: 28 JAN 2019 15:39:55