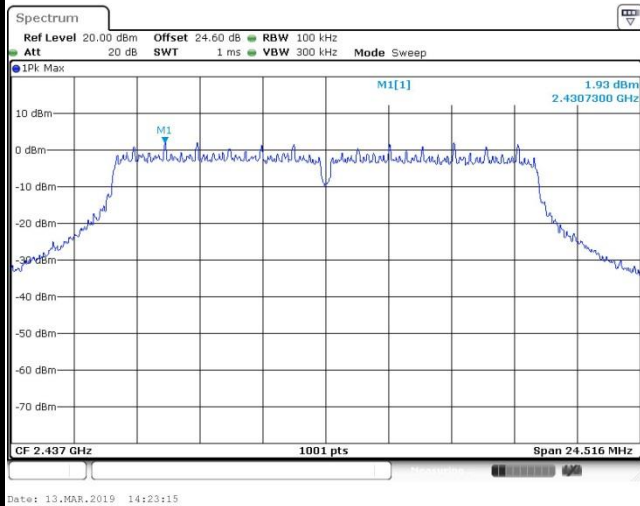




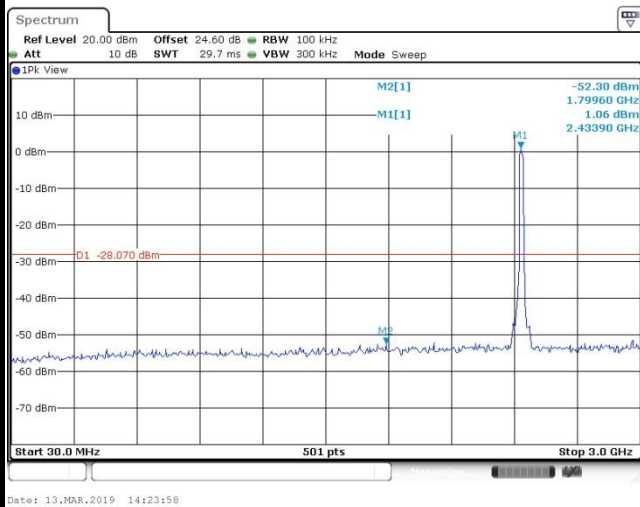
Test Mode :	802.11g	Test Channel :	06
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100kHz PSD reference Level

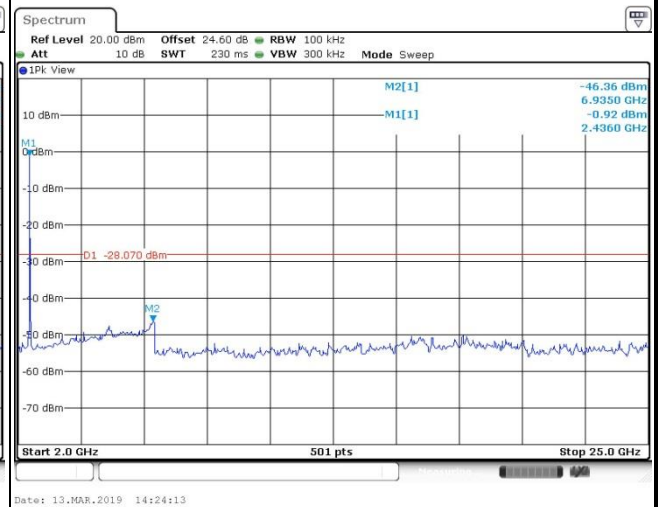


Channel Plot

Spurious Emission 30MHz~3GHz



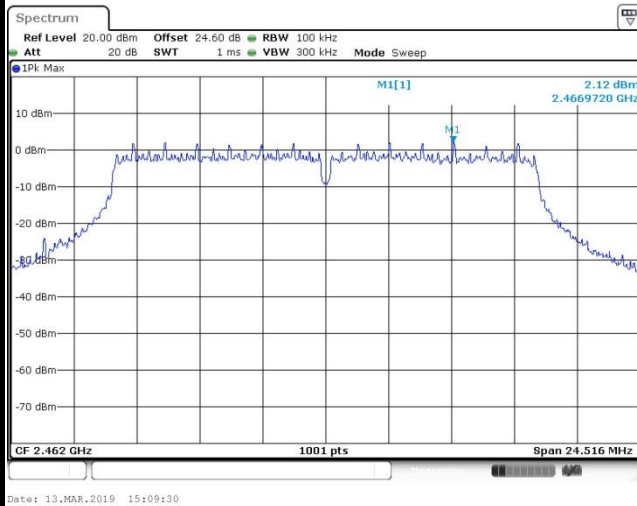
Spurious Emission 2GHz~25GHz



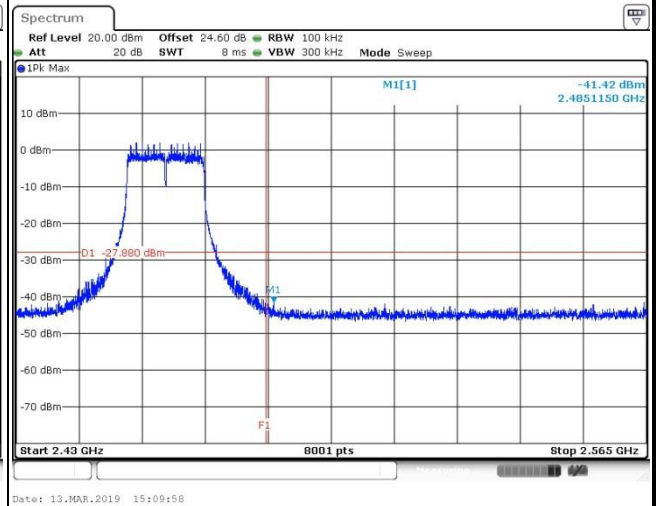


Test Mode :	802.11g	Test Channel :	11
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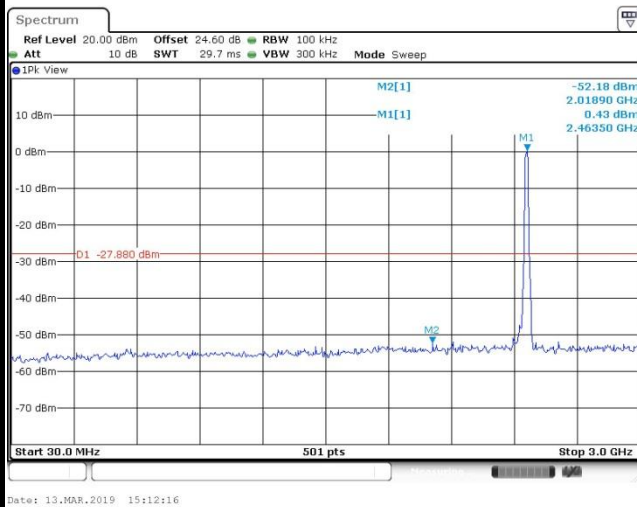
100kHz PSD reference Level



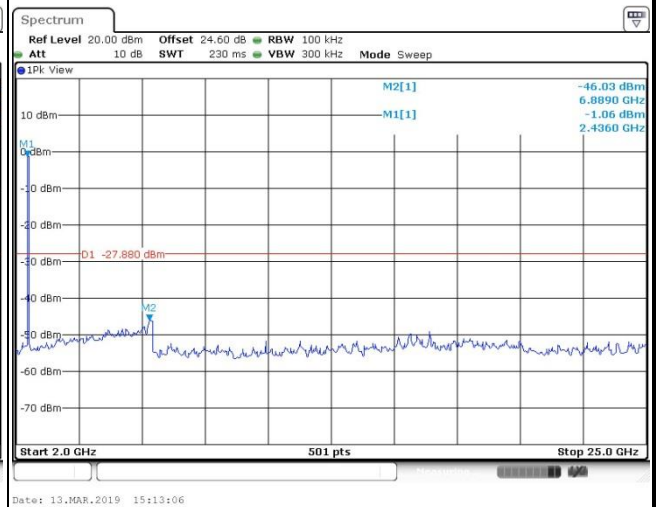
Channel Plot



Spurious Emission 30MHz~3GHz



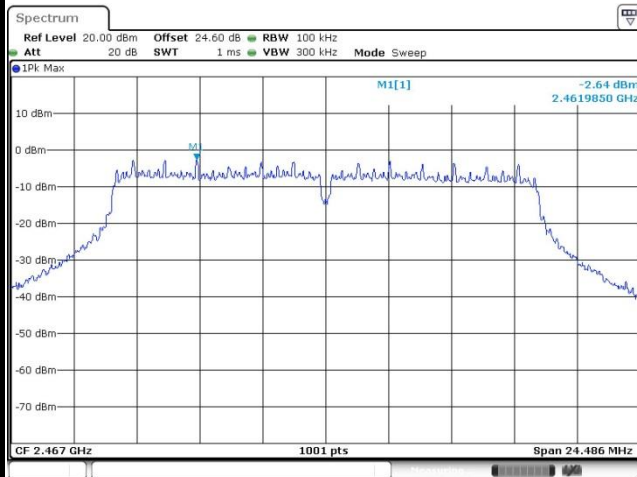
Spurious Emission 2GHz~25GHz



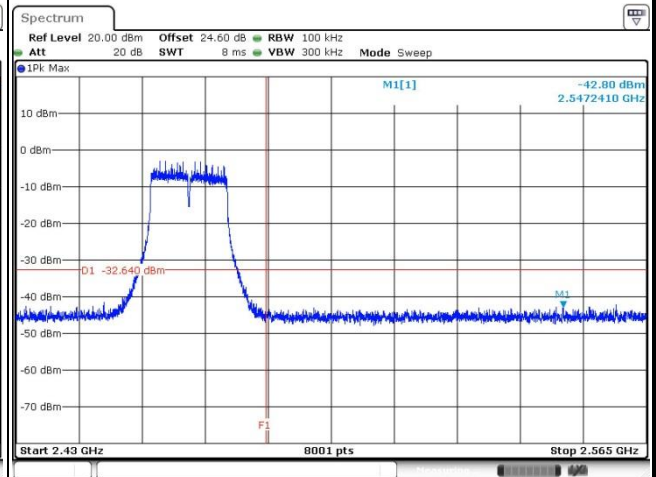


Test Mode :	802.11g	Test Channel :	12
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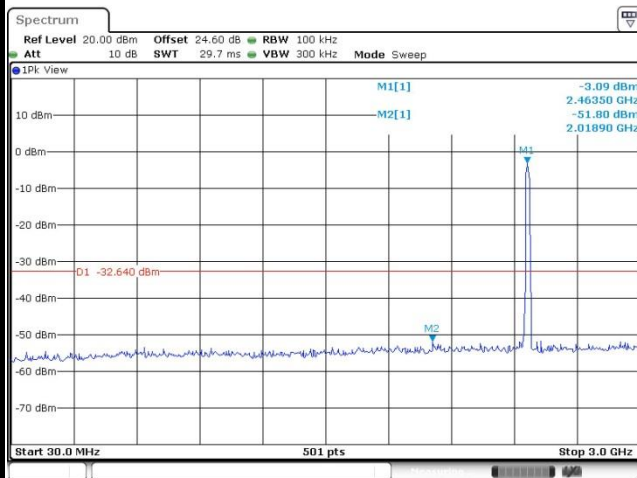
100kHz PSD reference Level



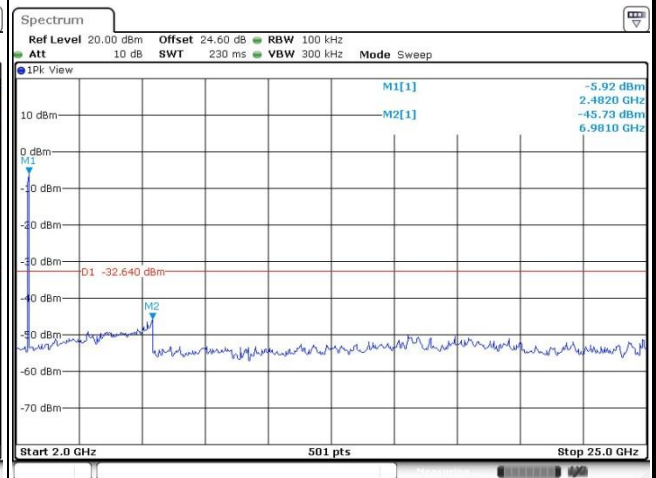
Channel Plot



Spurious Emission 30MHz~3GHz



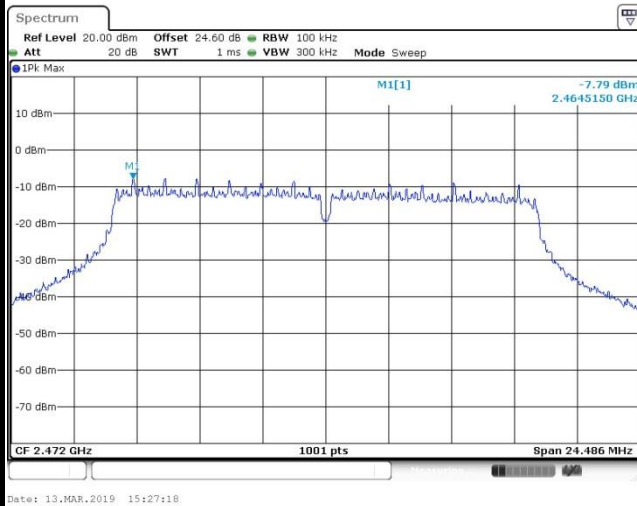
Spurious Emission 2GHz~25GHz



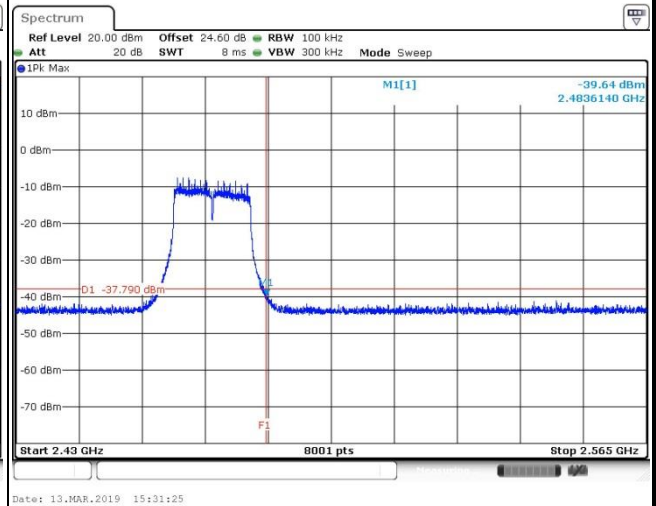


Test Mode :	802.11g	Test Channel :	13
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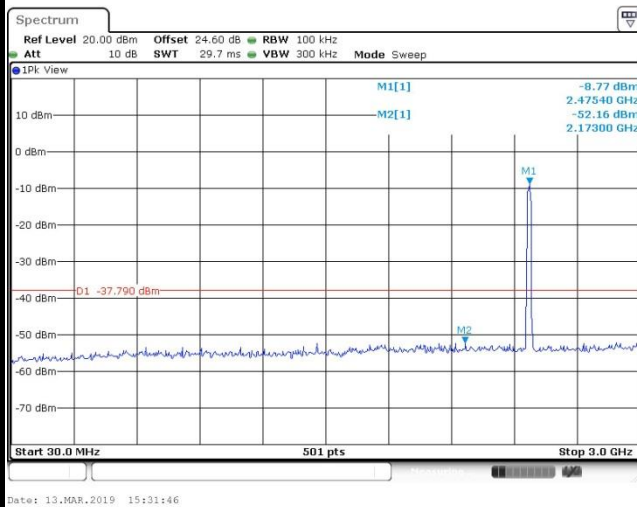
100kHz PSD reference Level



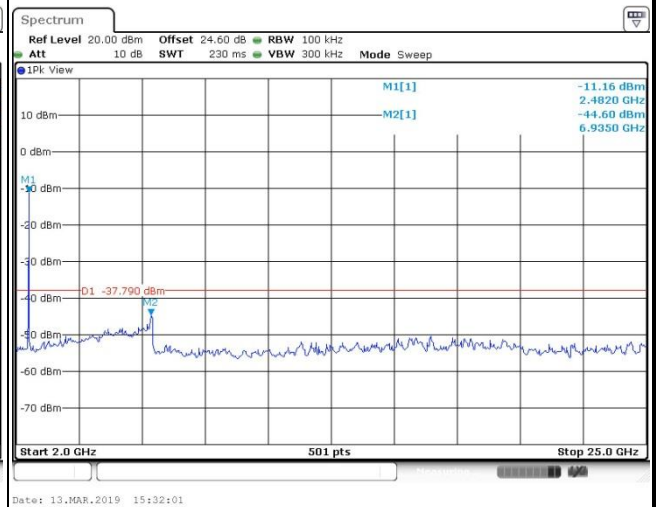
Channel Plot

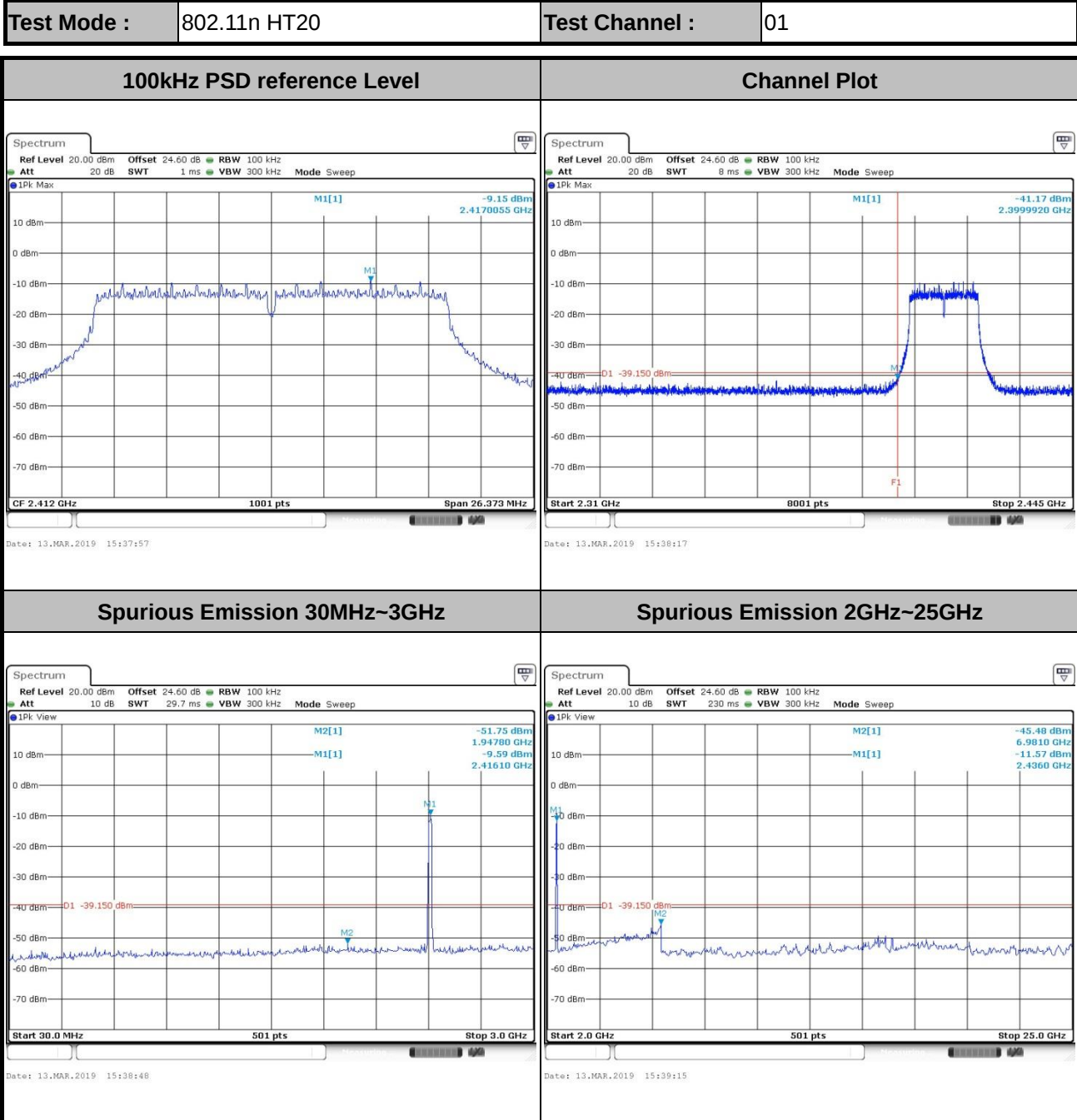


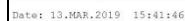
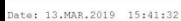
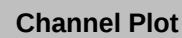
Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz





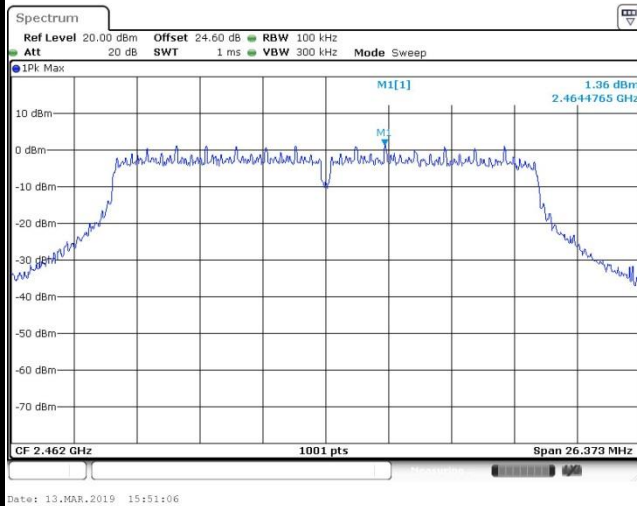




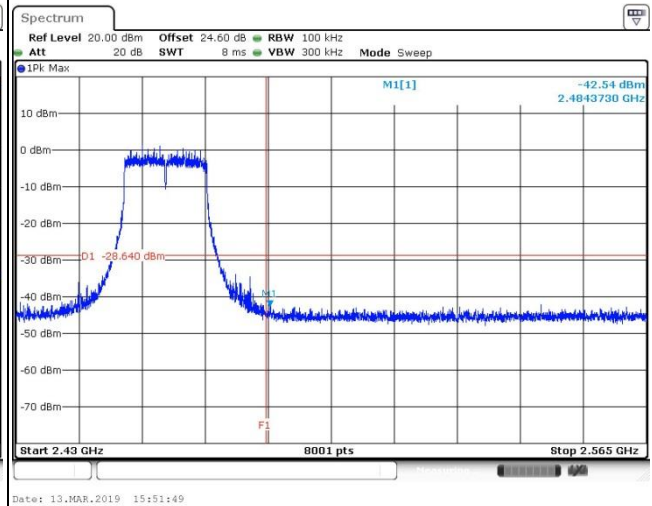
Test Mode : 802.11n HT20

Test Channel : 11

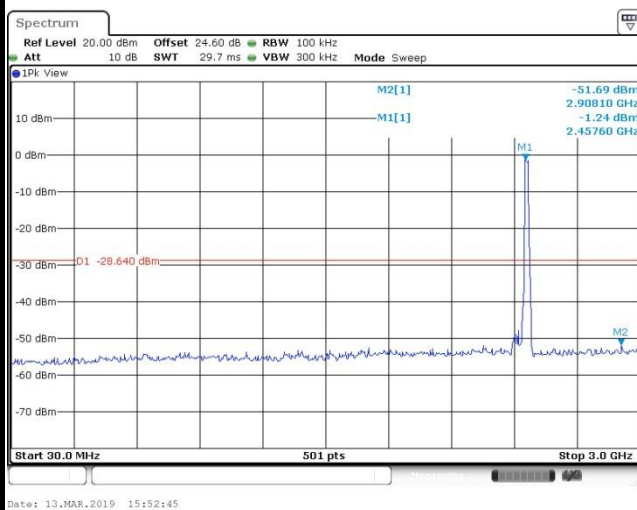
100kHz PSD reference Level



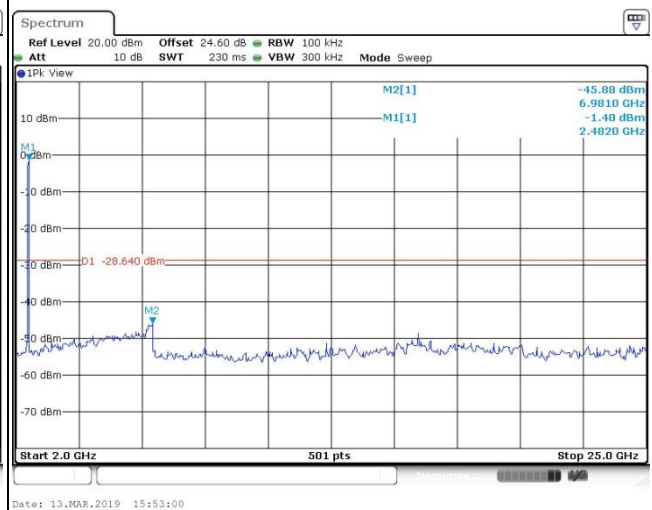
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

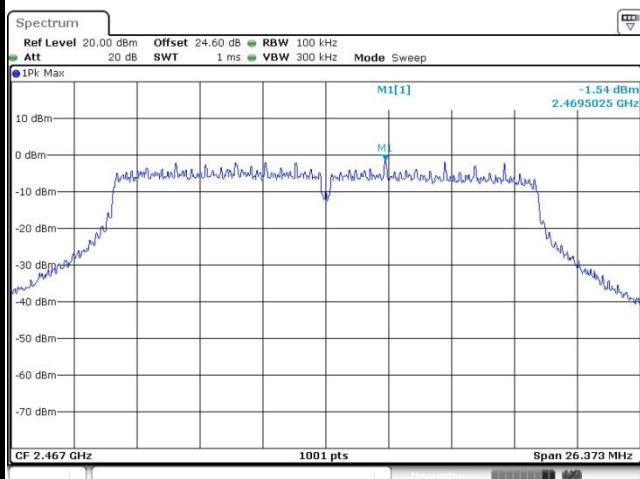




Test Mode : 802.11n HT20

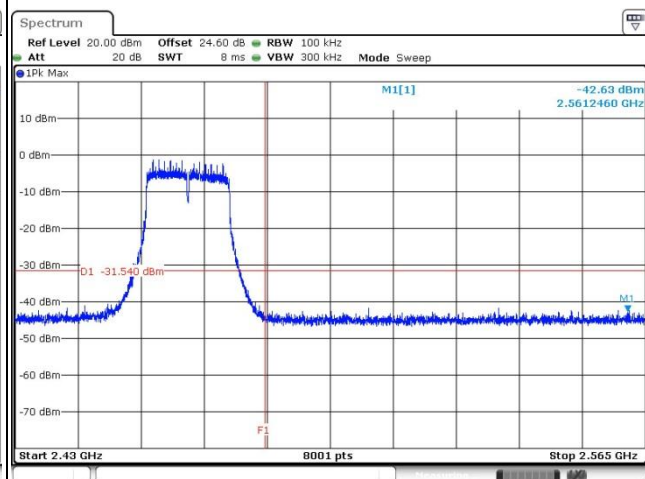
Test Channel : 12

100kHz PSD reference Level



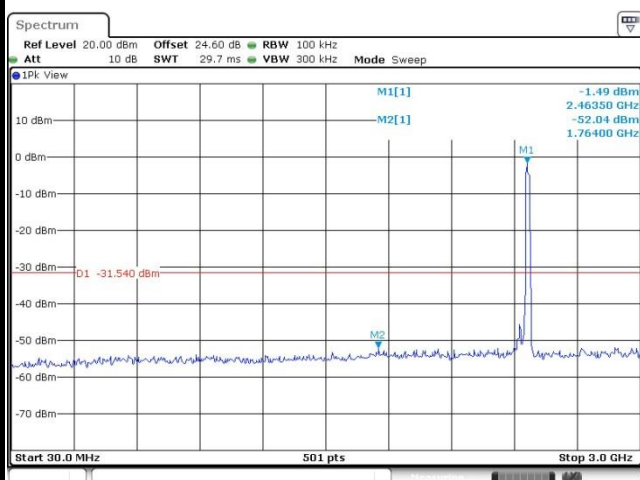
Date: 13.MAR.2019 15:55:38

Channel Plot



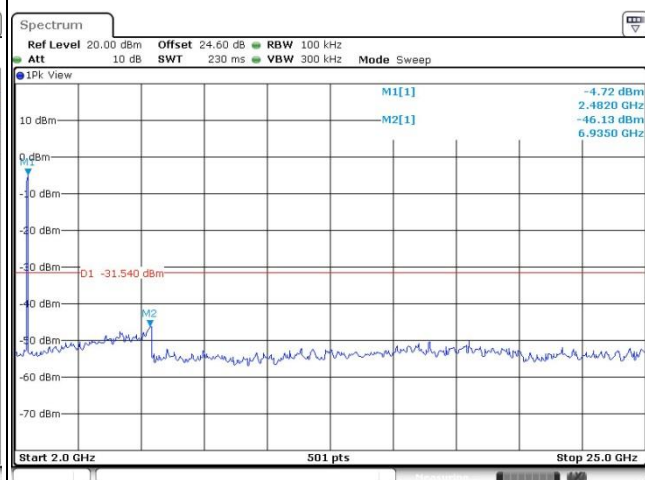
Date: 13.MAR.2019 15:56:03

Spurious Emission 30MHz~3GHz



Date: 13.MAR.2019 15:56:19

Spurious Emission 2GHz~25GHz



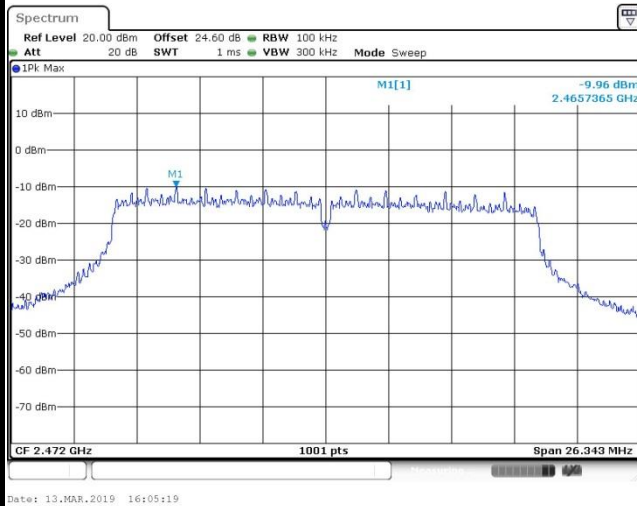
Date: 13.MAR.2019 15:56:33



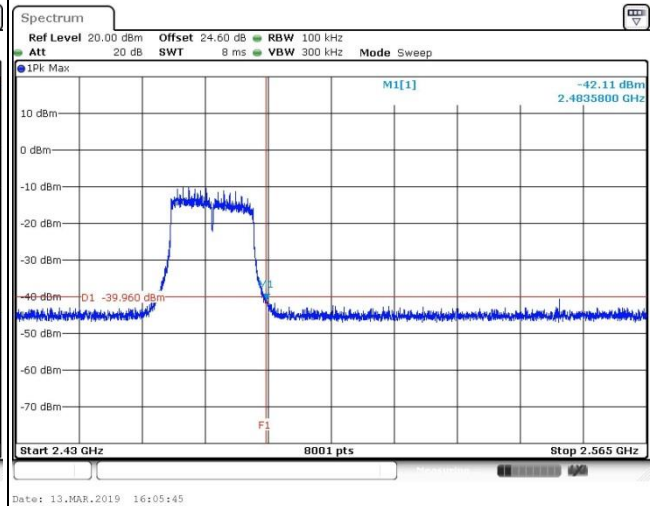
Test Mode : 802.11n HT20

Test Channel : 13

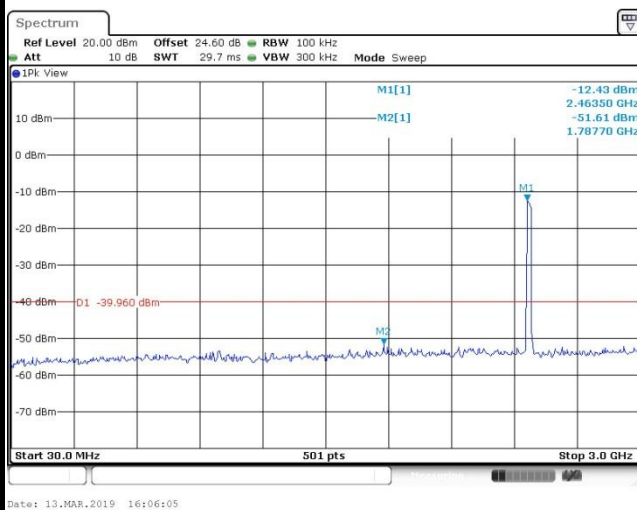
100kHz PSD reference Level



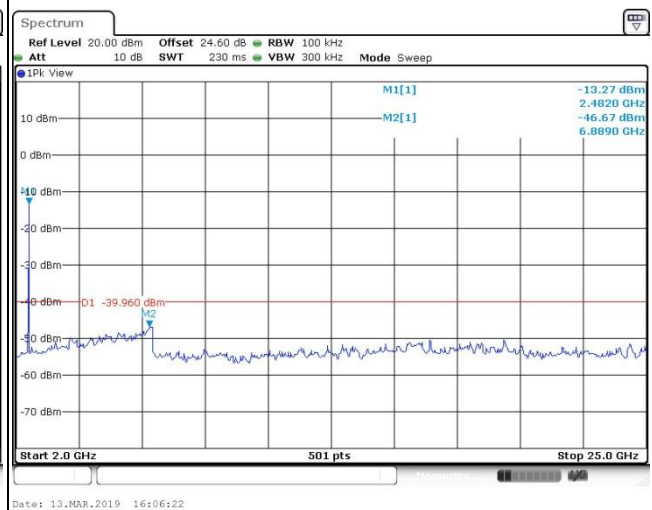
Channel Plot



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz



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

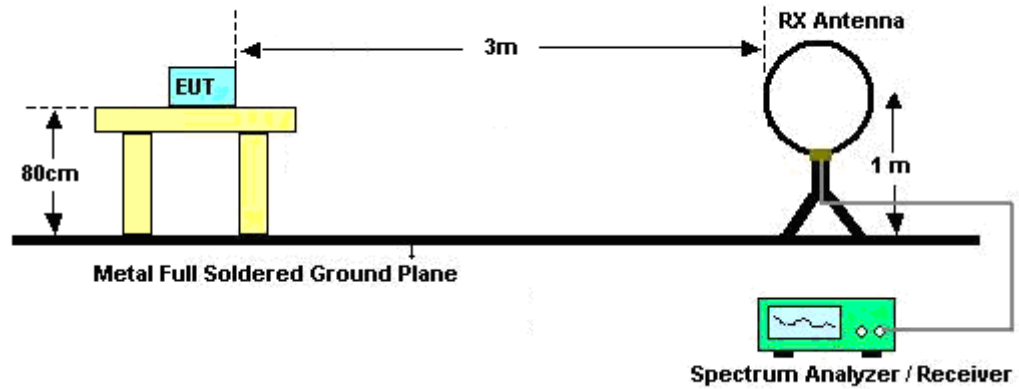
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 $\geq$ 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:

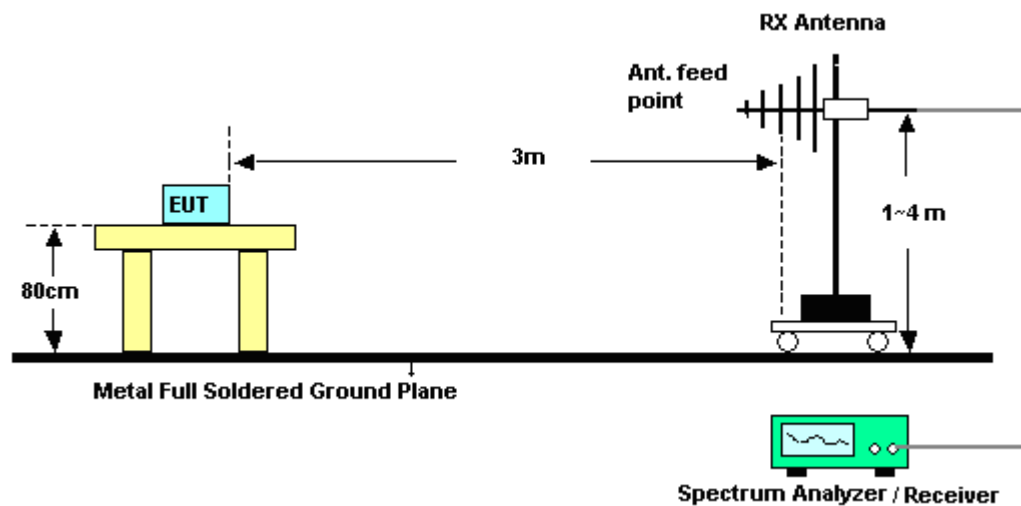
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

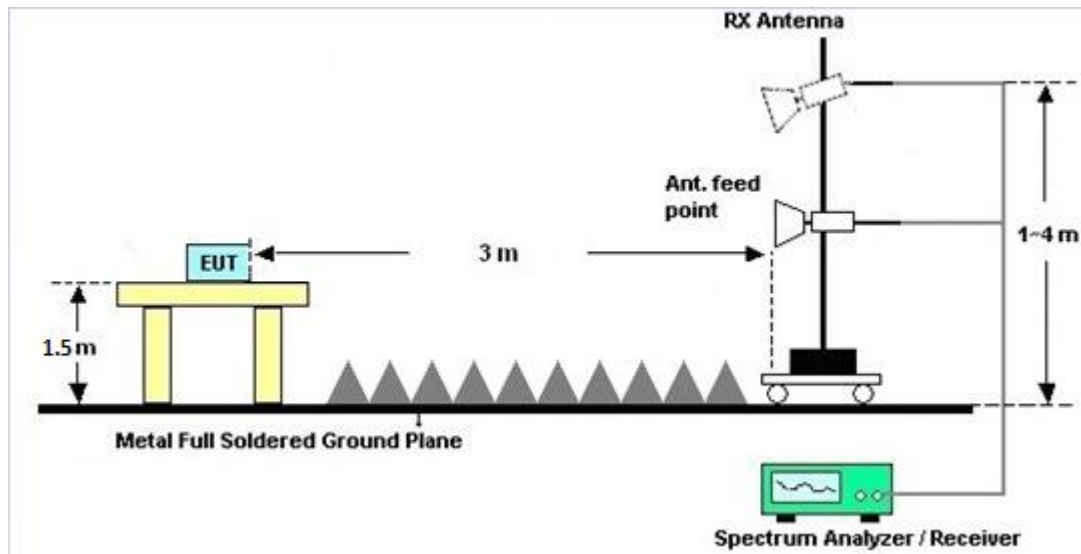
For radiated emissions below 30MHz



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 C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

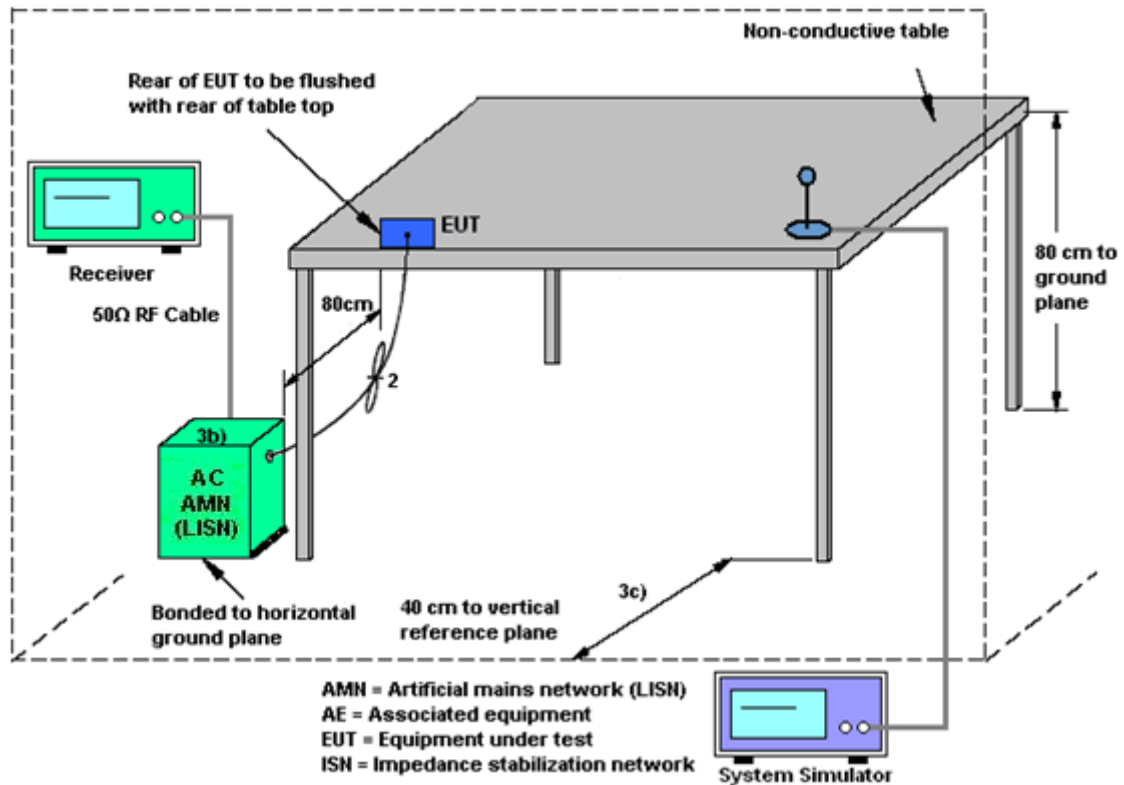
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 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 (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	-2.00	-3.00	-2.00	0.52	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	HTC-1	4	N/A	May 12, 2018	Feb. 15, 2019~ Mar. 14, 2019	May 11, 2019	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15100041SN O10	10MHz~6GHz	May 07, 2018	Feb. 15, 2019~ Mar. 14, 2019	May 06, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Feb. 15, 2019~ Mar. 14, 2019	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Feb. 15, 2019~ Feb. 27, 2019	Feb. 28, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Feb. 28, 2019	Feb. 28, 2019~ Mar. 14, 2019	Feb. 27, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 02, 2018	Feb. 15, 2019~ Mar. 14, 2019	Oct. 01, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 23, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Feb. 23, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Feb. 23, 2019	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Feb. 23, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Feb. 23, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 23, 2019	N/A	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Sep. 14, 2018	Feb. 23, 2019	Sep. 13, 2019	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Nov. 08, 2018	Feb. 23, 2019	Nov. 07, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Feb. 22, 2019~ Feb. 28, 2019	Jan. 06, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N -6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 13, 2018	Feb. 22, 2019~ Feb. 28, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 30, 2018	Feb. 22, 2019~ Feb. 28, 2019	Oct. 29, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Dec. 05, 2018	Feb. 22, 2019~ Feb. 28, 2019	Dec. 04, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	Feb. 22, 2019~ Feb. 28, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800 054001	1GHz~18GHz	Apr. 16, 2018	Feb. 22, 2019~ Feb. 28, 2019	Apr. 15, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Feb. 22, 2019~ Feb. 28, 2019	Nov. 13, 2020	Radiation (03CH11-HY)
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Feb. 22, 2019~ Feb. 28, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2018	Feb. 22, 2019~ Feb. 28, 2019	Oct. 18, 2019	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 06, 2018	Feb. 22, 2019~ Feb. 28, 2019	Mar. 05, 2019	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 05, 2018	Feb. 22, 2019~ Feb. 28, 2019	Nov. 04, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1G Low Pass	Sep. 16, 2018	Feb. 22, 2019~ Feb. 28, 2019	Sep. 17, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN3	2.7G High Pass	Sep. 16, 2018	Feb. 22, 2019~ Feb. 28, 2019	Sep. 17, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 14, 2018	Feb. 22, 2019~ Feb. 28, 2019	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 14, 2018	Feb. 22, 2019~ Feb. 28, 2019	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 14, 2018	Feb. 22, 2019~ Feb. 28, 2019	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 14, 2018	Feb. 22, 2019~ Feb. 28, 2019	Mar. 13, 2019	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 22, 2019~ Feb. 28, 2019	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 22, 2019~ Feb. 28, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 22, 2019~ Feb. 28, 2019	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Feb. 22, 2019~ Feb. 28, 2019	N/A	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.20
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao / Tommy Lee	Temperature:	21~25	°C
Test Date:	2019/2/15 ~ 2019/3/14	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	13.99	14.04	8.07	9.03	0.50	Pass
11b	1Mbps	2	6	2437	13.89	13.94	8.57	8.53	0.50	Pass
11b	1Mbps	2	11	2462	13.74	13.94	8.55	8.51	0.50	Pass
11b	1Mbps	2	12	2467	13.69	13.84	8.57	8.05	0.50	Pass
11b	1Mbps	2	13	2472	13.74	13.84	8.55	8.07	0.50	Pass
11g	6Mbps	2	1	2412	16.93	16.73	16.34	16.34	0.50	Pass
11g	6Mbps	2	6	2437	16.93	16.78	16.30	16.34	0.50	Pass
11g	6Mbps	2	11	2462	16.83	16.73	16.32	16.34	0.50	Pass
11g	6Mbps	2	12	2467	16.83	16.73	16.30	16.32	0.50	Pass
11g	6Mbps	2	13	2472	16.88	16.78	15.72	16.32	0.50	Pass
HT20	MCS0	2	1	2412	18.13	17.93	17.58	17.58	0.50	Pass
HT20	MCS0	2	6	2437	18.08	17.88	17.18	17.58	0.50	Pass
HT20	MCS0	2	11	2462	17.93	17.83	17.52	17.58	0.50	Pass
HT20	MCS0	2	12	2467	17.93	17.83	17.30	17.58	0.50	Pass
HT20	MCS0	2	13	2472	18.03	17.88	17.20	17.56	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	14.40	13.80	-	30.00	30.00	-2.00	-3.00	12.40	10.80	36.00	36.00	Pass
11b	1Mbps	1	6	2437	14.30	13.60		30.00	30.00	-2.00	-3.00	12.30	10.60	36.00	36.00	Pass
11b	1Mbps	1	11	2462	14.30	13.80		30.00	30.00	-2.00	-3.00	12.30	10.80	36.00	36.00	Pass
11b	1Mbps	1	12	2467	14.10	13.90		30.00	30.00	-2.00	-3.00	12.10	10.90	36.00	36.00	Pass
11b	1Mbps	1	13	2472	12.30	10.30		30.00	30.00	-2.00	-3.00	10.30	7.30	36.00	36.00	Pass
11g	6Mbps	1	1	2412	10.10	8.60		30.00	30.00	-2.00	-3.00	8.10	5.60	36.00	36.00	Pass
11g	6Mbps	1	6	2437	14.70	14.60		30.00	30.00	-2.00	-3.00	12.70	11.60	36.00	36.00	Pass
11g	6Mbps	1	11	2462	14.60	14.50		30.00	30.00	-2.00	-3.00	12.60	11.50	36.00	36.00	Pass
11g	6Mbps	1	12	2467	11.90	9.00		30.00	30.00	-2.00	-3.00	9.90	6.00	36.00	36.00	Pass
11g	6Mbps	1	13	2472	4.30	4.30		30.00	30.00	-2.00	-3.00	2.30	1.30	36.00	36.00	Pass
HT20	MCS0	1	1	2412	3.80	2.30		30.00	30.00	-2.00	-3.00	1.80	-0.70	36.00	36.00	Pass
HT20	MCS0	1	6	2437	14.70	14.60		30.00	30.00	-2.00	-3.00	12.70	11.60	36.00	36.00	Pass
HT20	MCS0	1	11	2462	14.10	14.00		30.00	30.00	-2.00	-3.00	12.10	11.00	36.00	36.00	Pass
HT20	MCS0	1	12	2467	9.10	10.50		30.00	30.00	-2.00	-3.00	7.10	7.50	36.00	36.00	Pass
HT20	MCS0	1	13	2472	2.00	1.80		30.00	30.00	-2.00	-3.00	0.00	-1.20	36.00	36.00	Pass
11b	1Mbps	2	1	2412	14.40	13.80	17.12	30.00		-2.00		15.12		36.00		Pass
11b	1Mbps	2	6	2437	14.30	13.80	17.07	30.00		-2.00		15.07		36.00		Pass
11b	1Mbps	2	11	2462	14.30	13.80	17.07	30.00		-2.00		15.07		36.00		Pass
11b	1Mbps	2	12	2467	14.30	14.00	17.16	30.00		-2.00		15.16		36.00		Pass
11b	1Mbps	2	13	2472	12.50	10.40	14.59	30.00		-2.00		12.59		36.00		Pass
11g	6Mbps	2	1	2412	10.40	8.70	12.64	30.00		-2.00		10.64		36.00		Pass
11g	6Mbps	2	6	2437	14.80	14.60	17.71	30.00		-2.00		15.71		36.00		Pass
11g	6Mbps	2	11	2462	14.60	14.50	17.56	30.00		-2.00		15.56		36.00		Pass
11g	6Mbps	2	12	2467	11.90	9.00	13.70	30.00		-2.00		11.70		36.00		Pass
11g	6Mbps	2	13	2472	4.30	4.30	7.31	30.00		-2.00		5.31		36.00		Pass
HT20	MCS0	2	1	2412	4.00	2.50	6.32	30.00		-2.00		4.32		36.00		Pass
HT20	MCS0	2	6	2437	14.90	14.60	17.76	30.00		-2.00		15.76		36.00		Pass
HT20	MCS0	2	11	2462	14.20	14.00	17.11	30.00		-2.00		15.11		36.00		Pass
HT20	MCS0	2	12	2467	9.10	10.50	12.87	30.00		-2.00		10.87		36.00		Pass
HT20	MCS0	2	13	2472	2.00	1.80	4.91	30.00		-2.00		2.91		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	-7.95	-9.37	-4.94	0.52		8.00		Pass
11b	1Mbps	2	6	2437	-8.21	-9.00	-5.20	0.52		8.00		Pass
11b	1Mbps	2	11	2462	-7.73	-8.73	-4.72	0.52		8.00		Pass
11b	1Mbps	2	12	2467	-7.48	-8.82	-4.47	0.52		8.00		Pass
11b	1Mbps	2	13	2472	-10.68	-11.40	-7.67	0.52		8.00		Pass
11g	6Mbps	2	1	2412	-16.26	-17.20	-13.25	0.52		8.00		Pass
11g	6Mbps	2	6	2437	-9.36	-12.06	-6.35	0.52		8.00		Pass
11g	6Mbps	2	11	2462	-10.19	-11.79	-7.18	0.52		8.00		Pass
11g	6Mbps	2	12	2467	-12.67	-16.29	-9.66	0.52		8.00		Pass
11g	6Mbps	2	13	2472	-20.45	-21.80	-17.44	0.52		8.00		Pass
HT20	MCS0	2	1	2412	-21.95	-22.91	-18.94	0.52		8.00		Pass
HT20	MCS0	2	6	2437	-10.22	-12.26	-7.21	0.52		8.00		Pass
HT20	MCS0	2	11	2462	-11.37	-11.65	-8.36	0.52		8.00		Pass
HT20	MCS0	2	12	2467	-16.34	-14.85	-11.84	0.52		8.00		Pass
HT20	MCS0	2	13	2472	-22.02	-24.60	-19.01	0.52		8.00		Pass

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



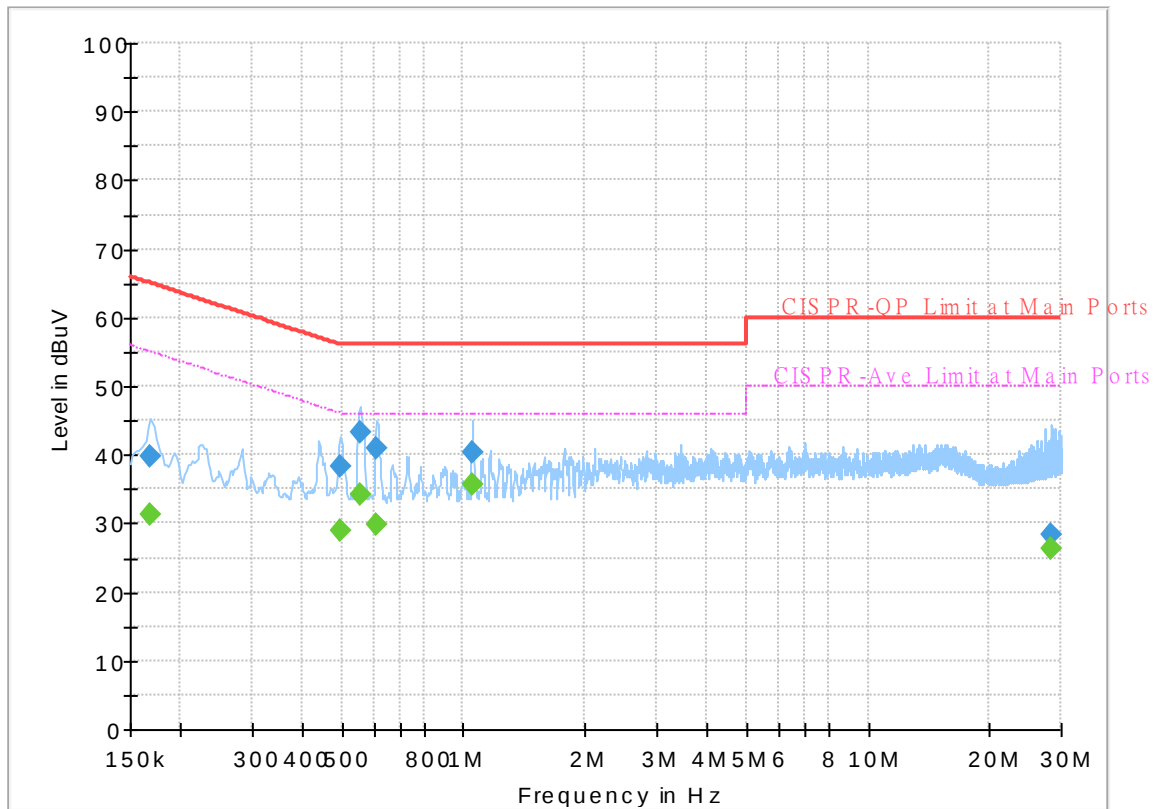
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Rick Lin	Temperature :	22~23℃
		Relative Humidity :	53~55%

EUT Information

Report NO : 8O2423-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



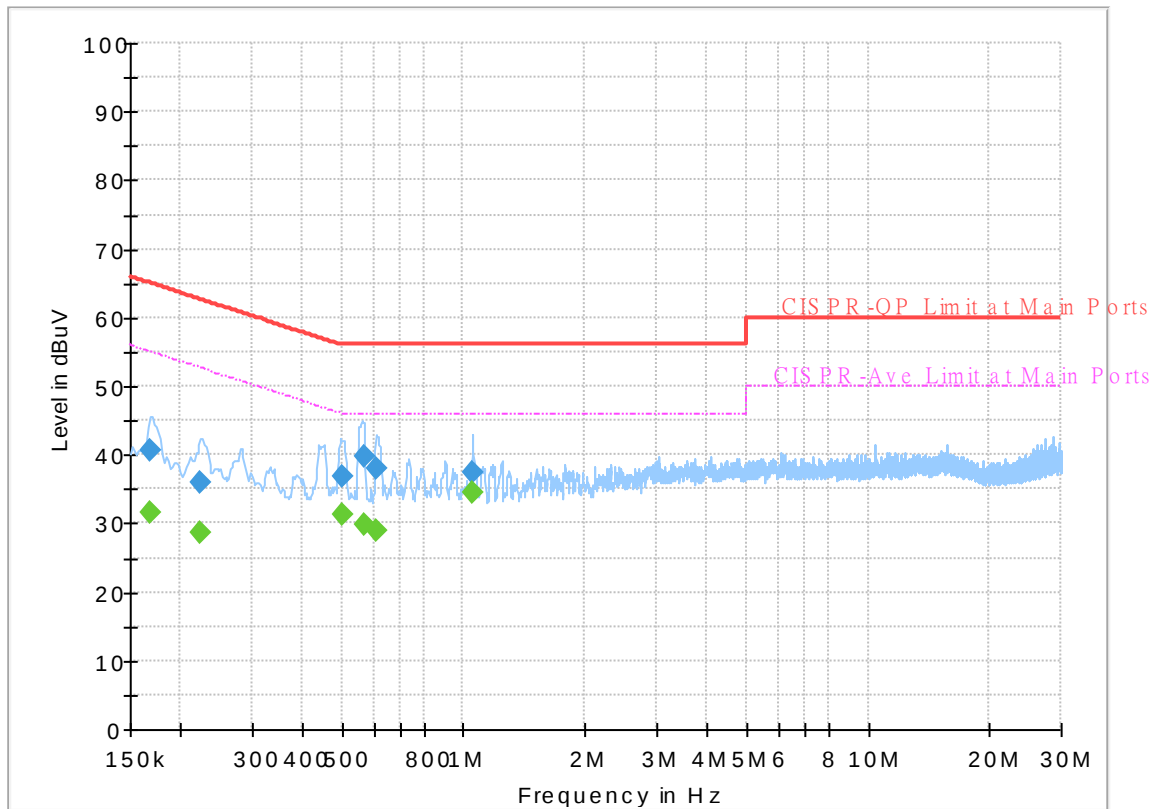
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	31.24	55.06	23.82	L1	OFF	19.5
0.168000	39.75	---	65.06	25.31	L1	OFF	19.5
0.496500	---	28.94	46.06	17.12	L1	OFF	19.5
0.496500	38.20	---	56.06	17.86	L1	OFF	19.5
0.555000	---	34.19	46.00	11.81	L1	OFF	19.5
0.555000	43.25	---	56.00	12.75	L1	OFF	19.5
0.609000	---	29.83	46.00	16.17	L1	OFF	19.6
0.609000	40.98	---	56.00	15.02	L1	OFF	19.6
1.052250	---	35.66	46.00	10.34	L1	OFF	19.6
1.052250	40.39	---	56.00	15.61	L1	OFF	19.6
28.500000	---	26.34	50.00	23.66	L1	OFF	20.5
28.500000	28.38	---	60.00	31.62	L1	OFF	20.5

EUT Information

Report NO : 8O2423-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	31.49	55.06	23.57	N	OFF	19.5
0.168000	40.53	---	65.06	24.53	N	OFF	19.5
0.224250	---	28.62	52.66	24.04	N	OFF	19.5
0.224250	36.09	---	62.66	26.57	N	OFF	19.5
0.501000	---	31.35	46.00	14.65	N	OFF	19.5
0.501000	36.71	---	56.00	19.29	N	OFF	19.5
0.566250	---	29.72	46.00	16.28	N	OFF	19.5
0.566250	39.79	---	56.00	16.21	N	OFF	19.5
0.609000	---	28.86	46.00	17.14	N	OFF	19.6
0.609000	38.12	---	56.00	17.88	N	OFF	19.6
1.052250	---	34.44	46.00	11.56	N	OFF	19.6
1.052250	37.32	---	56.00	18.68	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	HAO Shu, JC Liang, and Ken Wu	Temperature :	20~25°C
		Relative Humidity :	50~55%

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		2358.615	51.99	-22.01	74	41.6	27.57	16.46	33.64	205	6	P	H
		2315.67	41.03	-12.97	54	30.56	27.74	16.39	33.66	205	6	A	H
	*	2412	98	-	-	87.71	27.38	16.53	33.62	205	6	P	H
	*	2412	94.73	-	-	84.44	27.38	16.53	33.62	205	6	A	H
													H
		2389.38	54.71	-19.29	74	44.4	27.44	16.5	33.63	271	40	P	V
		2390	41.15	-12.85	54	30.83	27.44	16.51	33.63	271	40	A	V
	*	2412	106.43	-	-	96.14	27.38	16.53	33.62	271	40	P	V
	*	2412	103.32	-	-	93.03	27.38	16.53	33.62	271	40	A	V
													V
802.11b CH 06 2437MHz		2325.84	52.45	-21.55	74	41.99	27.7	16.41	33.65	202	348	P	H
		2310	41.45	-12.55	54	30.97	27.76	16.38	33.66	202	348	A	H
	*	2437	98.18	-	-	87.91	27.33	16.55	33.61	202	348	P	H
	*	2437	95.02	-	-	84.75	27.33	16.55	33.61	202	348	A	H
		2494.24	52.24	-21.76	74	41.93	27.3	16.6	33.59	202	348	P	H
		2483.68	41.33	-12.67	54	31.04	27.3	16.59	33.6	202	348	A	H
		2324.88	52.99	-21.01	74	42.53	27.7	16.41	33.65	272	40	P	V
		2312.56	41.61	-12.39	54	31.13	27.75	16.39	33.66	272	40	A	V
	*	2437	106.18	-	-	95.91	27.33	16.55	33.61	272	40	P	V
	*	2437	103.2	-	-	92.93	27.33	16.55	33.61	272	40	A	V
		2499.2	52.85	-21.15	74	42.54	27.3	16.6	33.59	272	40	P	V
		2484.16	41.64	-12.36	54	31.35	27.3	16.59	33.6	272	40	A	V



802.11b CH 11 2462MHz	*	2462	96.55	-	-	86.28	27.3	16.57	33.6	196	7	P	H
	*	2462	93.6	-	-	83.33	27.3	16.57	33.6	196	7	A	H
		2492.16	51.83	-22.17	74	41.53	27.3	16.59	33.59	196	7	P	H
		2484.16	41	-13	54	30.71	27.3	16.59	33.6	196	7	A	H
													H
													H
	*	2462	104.76	-	-	94.49	27.3	16.57	33.6	297	28	P	V
	*	2462	101.73	-	-	91.46	27.3	16.57	33.6	297	28	A	V
		2486.84	52.67	-21.33	74	42.37	27.3	16.59	33.59	297	28	P	V
		2484.16	41.24	-12.76	54	30.95	27.3	16.59	33.6	297	28	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	96.49	-	-	86.22	27.3	16.57	33.6	164	7	P	H
	*	2467	93.49	-	-	83.22	27.3	16.57	33.6	164	7	A	H
		2485.92	51.77	-22.23	74	41.48	27.3	16.59	33.6	164	7	P	H
		2484	41.17	-12.83	54	30.88	27.3	16.59	33.6	164	7	A	H
													H
													H
	*	2467	104.8	-	-	94.53	27.3	16.57	33.6	296	28	P	V
	*	2467	101.87	-	-	91.6	27.3	16.57	33.6	296	28	A	V
		2483.52	54.41	-19.59	74	44.12	27.3	16.59	33.6	296	28	P	V
		2483.84	42.44	-11.56	54	32.15	27.3	16.59	33.6	296	28	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	96.75	-	-	86.47	27.3	16.58	33.6	139	7	P	H
	*	2472	93.63	-	-	83.35	27.3	16.58	33.6	139	7	A	H
		2484.24	51.96	-22.04	74	41.67	27.3	16.59	33.6	139	7	P	H
		2486	41.84	-12.16	54	31.55	27.3	16.59	33.6	139	7	A	H
													H
													H
	*	2472	104.46	-	-	94.18	27.3	16.58	33.6	297	27	P	V
	*	2472	101.48	-	-	91.2	27.3	16.58	33.6	297	27	A	V
		2486.88	54.91	-19.09	74	44.61	27.3	16.59	33.59	297	27	P	V
		2483.52	45.37	-8.63	54	35.08	27.3	16.59	33.6	297	27	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 802.11b (Harmonic @ 3m)

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 CH 01 2412MHz		4824	37.8	-36.2	74	55.17	31.1	10.1	58.57	100	0	P	H
													H
													H
													H
		4824	38.99	-35.01	74	56.36	31.1	10.1	58.57	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	37.91	-36.09	74	55.27	31.05	10.14	58.55	100	0	P	H
		7311	42.6	-31.4	74	52.42	36.52	12.49	58.83	100	0	P	H
													H
													H
		4874	37.87	-36.13	74	55.23	31.05	10.14	58.55	100	0	P	V
		7311	42.84	-31.16	74	52.66	36.52	12.49	58.83	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	36.4	-37.6	74	53.6	31.14	10.19	58.53	100	0	P	H
		7386	39.93	-34.07	74	49.76	36.46	12.43	58.72	100	0	P	H
													H
													H
		4924	37.33	-36.67	74	54.53	31.14	10.19	58.53	100	0	P	V
		7386	40.51	-33.49	74	50.34	36.46	12.43	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.												



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 12 2467MHz		4934	37.93	-36.07	74	55.06	31.2	10.2	58.53	100	0	P	H
		7401	40.33	-33.67	74	50.21	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	37.23	-36.77	74	54.36	31.2	10.2	58.53	100	0	P	V
		7401	40.4	-33.6	74	50.28	36.4	12.42	58.7	100	0	P	V
													V
													V
802.11b CH 13 2472MHz		4944	38.37	-35.63	74	55.42	31.26	10.21	58.52	100	0	P	H
		7416	41.07	-32.93	74	50.9	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	37.62	-36.38	74	54.67	31.26	10.21	58.52	100	0	P	V
		7416	40.49	-33.51	74	50.32	36.43	12.44	58.7	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 802.11g (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2351.16	52.32	-21.68	74	41.91	27.6	16.45	33.64	200	43	P	H
		2389.485	41.17	-12.83	54	30.86	27.44	16.5	33.63	200	43	A	H
	*	2412	97.85	-	-	87.56	27.38	16.53	33.62	200	43	P	H
	*	2412	89.84	-	-	79.55	27.38	16.53	33.62	200	43	A	H
													H
													H
		2389.905	57.81	-16.19	74	47.5	27.44	16.5	33.63	286	46	P	V
		2390	42.3	-11.7	54	31.98	27.44	16.51	33.63	286	46	A	V
	*	2412	104.35	-	-	94.07	27.37	16.53	33.62	286	46	P	V
	*	2412	96.73	-	-	86.44	27.38	16.53	33.62	286	46	A	V
													V
													V
802.11g CH 06 2437MHz		2388.4	52.9	-21.1	74	42.58	27.45	16.5	33.63	199	88	P	H
		2390	41.31	-12.69	54	30.99	27.44	16.51	33.63	199	88	A	H
	*	2437	101.5	-	-	91.23	27.33	16.55	33.61	199	88	P	H
	*	2437	93.35	-	-	83.08	27.33	16.55	33.61	199	88	A	H
		2489.04	52.85	-21.15	74	42.55	27.3	16.59	33.59	199	88	P	H
		2484.48	41.25	-12.75	54	30.96	27.3	16.59	33.6	199	88	A	H
		2390	56.47	-17.53	74	46.15	27.44	16.51	33.63	271	47	P	V
		2390	41.88	-12.12	54	31.56	27.44	16.51	33.63	271	47	A	V
	*	2437	108.75	-	-	98.48	27.33	16.55	33.61	271	47	P	V
	*	2437	100.54	-	-	90.27	27.33	16.55	33.61	271	47	A	V
		2485.12	58	-16	74	47.71	27.3	16.59	33.6	271	47	P	V
		2483.6	42.13	-11.87	54	31.84	27.3	16.59	33.6	271	47	A	V



802.11g CH 11 2462MHz	*	2462	100.43	-	-	90.16	27.3	16.57	33.6	286	297	P	H
	*	2462	92.8	-	-	82.53	27.3	16.57	33.6	286	297	A	H
		2483.8	59.35	-14.65	74	49.06	27.3	16.59	33.6	286	297	P	H
		2484.28	43.07	-10.93	54	32.78	27.3	16.59	33.6	286	297	A	H
													H
													H
	*	2462	107.3	-	-	97.03	27.3	16.57	33.6	295	29	P	V
	*	2462	99.27	-	-	89	27.3	16.57	33.6	295	29	A	V
		2483.56	69.62	-4.38	74	59.33	27.3	16.59	33.6	295	29	P	V
		2483.52	50.4	-3.6	54	40.11	27.3	16.59	33.6	295	29	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)
802.11g CH 12 2467MHz	*	2467	99.58	-	-	89.31	27.3	16.57	33.6	285	297	P	H
	*	2467	91.08	-	-	80.81	27.3	16.57	33.6	285	297	A	H
		2484.44	58.83	-15.17	74	48.54	27.3	16.59	33.6	285	297	P	H
		2484.48	43.62	-10.38	54	33.33	27.3	16.59	33.6	285	297	A	H
													H
													H
	*	2467	105.27	-	-	95	27.3	16.57	33.6	298	30	P	V
	*	2467	97.81	-	-	87.54	27.3	16.57	33.6	298	30	A	V
		2483.64	67.3	-6.7	74	57.01	27.3	16.59	33.6	298	30	P	V
		2483.52	50.38	-3.62	54	40.09	27.3	16.59	33.6	298	30	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	89.59	-	-	79.31	27.3	16.58	33.6	225	296	P	H
	*	2472	82.46	-	-	72.18	27.3	16.58	33.6	225	296	A	H
		2483.68	60.68	-13.32	74	50.39	27.3	16.59	33.6	225	296	P	H
		2483.52	45.67	-8.33	54	35.38	27.3	16.59	33.6	225	296	A	H
													H
													H
	*	2472	97.48	-	-	87.2	27.3	16.58	33.6	289	42	P	V
	*	2472	89.5	-	-	79.22	27.3	16.58	33.6	289	42	A	V
		2483.64	66.03	-7.97	74	55.74	27.3	16.59	33.6	289	42	P	V
		2483.52	50.6	-3.4	54	40.31	27.3	16.59	33.6	289	42	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 802.11g (Harmonic @ 3m)**

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)
802.11g CH 01 2412MHz		4824	38.35	-35.65	74	55.72	31.1	10.1	58.57	100	0	P	H
													H
													H
													H
		4824	37.29	-36.71	74	54.66	31.1	10.1	58.57	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	36.13	-37.87	74	53.49	31.05	10.14	58.55	100	0	P	H
		7311	40.62	-33.38	74	50.44	36.52	12.49	58.83	100	0	P	H
													H
													H
		4874	36.63	-37.37	74	53.99	31.05	10.14	58.55	100	0	P	V
		7311	41.46	-32.54	74	51.28	36.52	12.49	58.83	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	36.93	-37.07	74	54.13	31.14	10.19	58.53	100	0	P	H
		7386	39.8	-34.2	74	49.63	36.46	12.43	58.72	100	0	P	H
													H
													H
		4924	36.97	-37.03	74	54.17	31.14	10.19	58.53	100	0	P	V
		7386	40.53	-33.47	74	50.36	36.46	12.43	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.												



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)
802.11g CH 12 2467MHz		4934	36.47	-37.53	74	53.6	31.2	10.2	58.53	100	0	P	H
		7401	40.94	-33.06	74	50.82	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	38.42	-35.58	74	55.55	31.2	10.2	58.53	100	0	P	V
		7401	40.89	-33.11	74	50.77	36.4	12.42	58.7	100	0	P	V
													V
													V
802.11g CH 13 2472MHz		4944	37.94	-36.06	74	54.99	31.26	10.21	58.52	100	0	P	H
		7416	39.61	-34.39	74	49.44	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	37.47	-36.53	74	54.52	31.26	10.21	58.52	100	0	P	V
		7416	40.8	-33.2	74	50.63	36.43	12.44	58.7	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 802.11n HT20 (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)
802.11n HT20 CH 01 2412MHz		2350.635	52.97	-21.03	74	42.56	27.6	16.45	33.64	226	43	P	H
		2312.835	41.06	-12.94	54	30.58	27.75	16.39	33.66	226	43	A	H
	*	2412	88.99	-	-	78.7	27.38	16.53	33.62	226	43	P	H
	*	2412	80.73	-	-	70.44	27.38	16.53	33.62	226	43	A	H
													H
													H
		2348.85	52.63	-21.37	74	42.23	27.6	16.44	33.64	276	26	P	V
		2390	41.08	-12.92	54	30.76	27.44	16.51	33.63	276	26	A	V
	*	2412	96.32	-	-	86.03	27.38	16.53	33.62	276	26	P	V
	*	2412	87.88	-	-	77.59	27.38	16.53	33.62	276	26	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2324.08	53.03	-20.97	74	42.57	27.7	16.41	33.65	199	87	P	H
		2389.84	41.42	-12.58	54	31.11	27.44	16.5	33.63	199	87	A	H
	*	2437	99.97	-	-	89.7	27.33	16.55	33.61	199	87	P	H
	*	2437	90.75	-	-	80.48	27.33	16.55	33.61	199	87	A	H
		2496.64	52.27	-21.73	74	41.96	27.3	16.6	33.59	199	87	P	H
		2483.6	41.25	-12.75	54	30.96	27.3	16.59	33.6	199	87	A	H
		2388.72	57.91	-16.09	74	47.59	27.45	16.5	33.63	309	29	P	V
		2390	42.13	-11.87	54	31.81	27.44	16.51	33.63	309	29	A	V
	*	2437	106.62	-	-	96.35	27.33	16.55	33.61	309	29	P	V
	*	2437	98.25	-	-	87.98	27.33	16.55	33.61	309	29	A	V
		2484.72	60.23	-13.77	74	49.94	27.3	16.59	33.6	309	29	P	V
		2483.92	42.23	-11.77	54	31.94	27.3	16.59	33.6	309	29	A	V



802.11n HT20 CH 11 2462MHz	*	2462	98.55	-	-	88.28	27.3	16.57	33.6	226	298	P	H
	*	2462	89.16	-	-	78.89	27.3	16.57	33.6	226	298	A	H
		2484.24	59.54	-14.46	74	49.25	27.3	16.59	33.6	226	298	P	H
		2483.64	43.41	-10.59	54	33.12	27.3	16.59	33.6	226	298	A	H
													H
													H
	*	2462	105.79	-	-	95.52	27.3	16.57	33.6	287	43	P	V
	*	2462	96.87	-	-	86.6	27.3	16.57	33.6	287	43	A	V
		2483.72	70.4	-3.6	74	60.11	27.3	16.59	33.6	287	43	P	V
		2483.6	50.4	-3.6	54	40.11	27.3	16.59	33.6	287	43	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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)
802.11n HT20 CH 12 2467MHz	*	2467	95.01	-	-	84.74	27.3	16.57	33.6	285	297	P	H
	*	2467	86.02	-	-	75.75	27.3	16.57	33.6	285	297	A	H
		2484.36	52.77	-21.23	74	42.48	27.3	16.59	33.6	285	297	P	H
		2483.52	41.92	-12.08	54	31.63	27.3	16.59	33.6	285	297	A	H
													H
													H
	*	2467	101.54	-	-	91.27	27.3	16.57	33.6	292	31	P	V
	*	2467	93.25	-	-	82.98	27.3	16.57	33.6	292	31	A	V
		2484	60.68	-13.32	74	50.39	27.3	16.59	33.6	292	31	P	V
		2483.52	45.8	-8.2	54	35.51	27.3	16.59	33.6	292	31	A	V
													V
													V
802.11n HT20 CH 13 2472MHz	*	2472	86.65	-	-	76.37	27.3	16.58	33.6	226	322	P	H
	*	2472	77.65	-	-	67.37	27.3	16.58	33.6	226	322	A	H
		2483.72	58.72	-15.28	74	48.43	27.3	16.59	33.6	226	322	P	H
		2483.52	44.39	-9.61	54	34.1	27.3	16.59	33.6	226	322	A	H
													H
													H
	*	2472	94.11	-	-	83.83	27.3	16.58	33.6	292	28	P	V
	*	2472	85.55	-	-	75.27	27.3	16.58	33.6	292	28	A	V
		2483.52	66.3	-7.7	74	56.01	27.3	16.59	33.6	292	28	P	V
		2483.52	50.91	-3.09	54	40.62	27.3	16.59	33.6	292	28	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 802.11n HT20 (Harmonic @ 3m)

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)
802.11n HT20 CH 01 2412MHz		4824	37.25	-36.75	74	54.62	31.1	10.1	58.57	100	0	P	H
													H
													H
													H
		4824	36.3	-37.7	74	53.67	31.1	10.1	58.57	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	35.47	-38.53	74	52.83	31.05	10.14	58.55	100	0	P	H
		7311	40.61	-33.39	74	50.43	36.52	12.49	58.83	100	0	P	H
													H
													H
		4874	36.35	-37.65	74	53.71	31.05	10.14	58.55	100	0	P	V
		7311	40.9	-33.1	74	50.72	36.52	12.49	58.83	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	36.95	-37.05	74	54.15	31.14	10.19	58.53	100	0	P	H
		7386	40.4	-33.6	74	50.23	36.46	12.43	58.72	100	0	P	H
													H
													H
		4924	36.75	-37.25	74	53.95	31.14	10.19	58.53	100	0	P	V
		7386	39.72	-34.28	74	49.55	36.46	12.43	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.												



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)
802.11n HT20 CH 12 2467MHz		4934	37.61	-36.39	74	54.74	31.2	10.2	58.53	100	0	P	H
		7401	40.76	-33.24	74	50.64	36.4	12.42	58.7	100	0	P	H
													H
													H
		4934	37.61	-36.39	74	54.74	31.2	10.2	58.53	100	0	P	V
		7401	40.78	-33.22	74	50.66	36.4	12.42	58.7	100	0	P	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	38.26	-35.74	74	55.31	31.26	10.21	58.52	100	0	P	H
		7416	40.88	-33.12	74	50.71	36.43	12.44	58.7	100	0	P	H
													H
													H
		4944	37.86	-36.14	74	54.91	31.26	10.21	58.52	100	0	P	V
		7416	40.69	-33.31	74	50.52	36.43	12.44	58.7	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

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)
2.4GHz 802.11n HT20 LF		46.2	23.34	-16.66	40	38.79	15.98	0.93	32.37	-	-	P	H
		146.37	31.53	-11.97	43.5	45.12	17.04	1.6	32.28	100	0	P	H
		268.68	21.23	-24.77	46	32.31	18.95	2.09	32.2	-	-	P	H
		440	24.19	-21.81	46	30.81	22.81	2.67	32.16	-	-	P	H
		706.7	28.83	-17.17	46	30.78	26.68	3.37	32.11	-	-	P	H
		942.6	32.81	-13.19	46	29.52	30.11	3.95	30.96	-	-	P	H
													H
													H
													H
													H
													H
													H
		45.66	34.44	-5.56	40	49.62	16.25	0.93	32.37	100	0	P	V
		179.04	26.58	-16.92	43.5	42.12	14.84	1.76	32.26	-	-	P	V
		265.71	20.09	-25.91	46	30.97	19.16	2.08	32.2	-	-	P	V
		454	23.85	-22.15	46	30.23	23.01	2.71	32.16	-	-	P	V
		744.5	29.61	-16.39	46	30.26	27.74	3.49	32.02	-	-	P	V
		871.2	33.76	-12.24	46	32.04	29.25	3.8	31.5	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													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	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”.



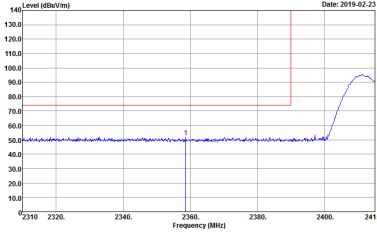
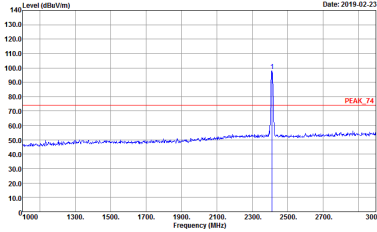
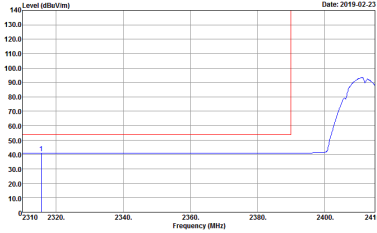
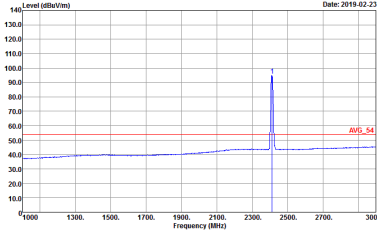
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	HAO Shu, JC Liang, and Ken Wu	Temperature :	20~25°C
		Relative Humidity :	50~55%

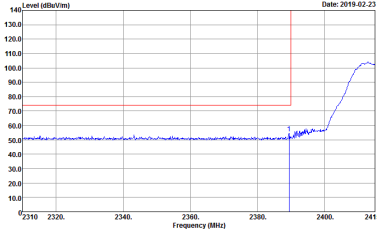
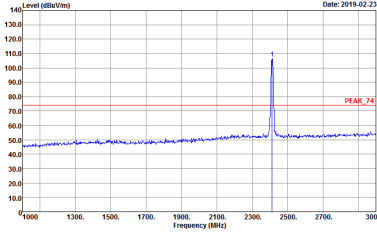
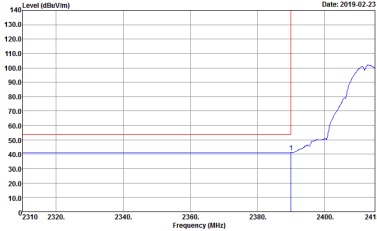
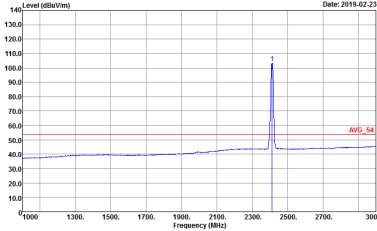
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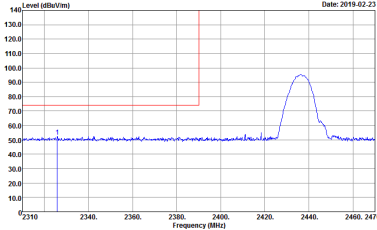
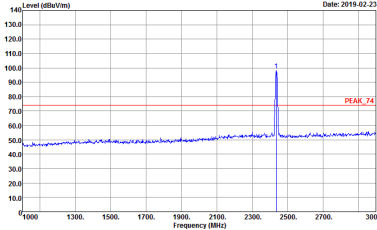
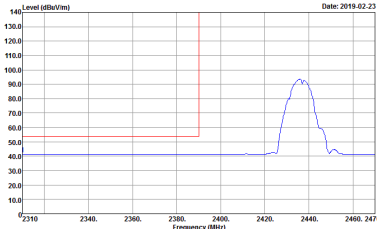
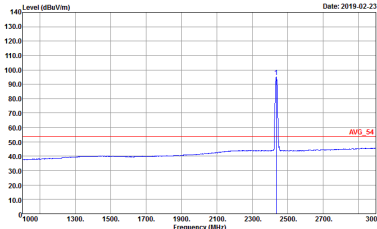
-L	Low channel location
-R	High channel location

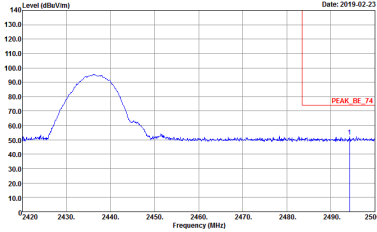
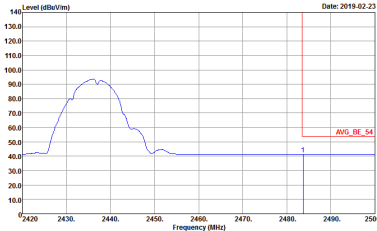
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

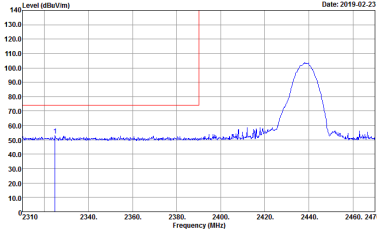
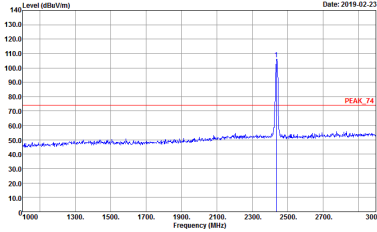
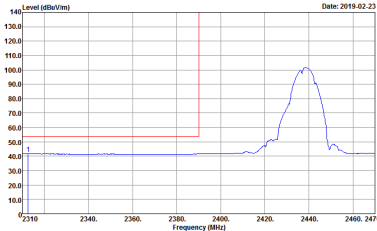
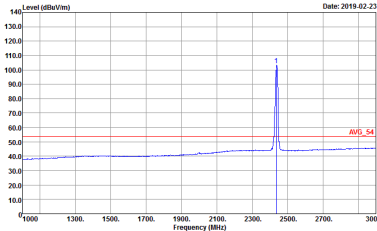
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10

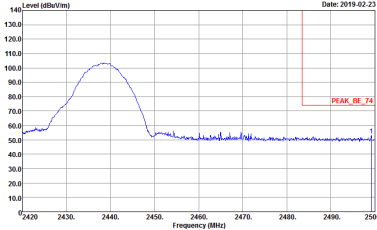
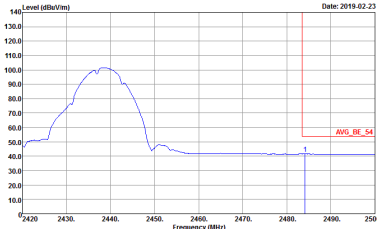


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 10

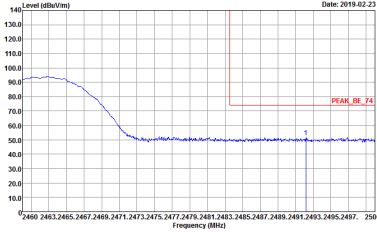
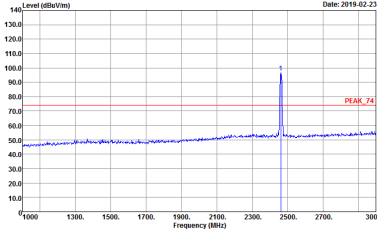
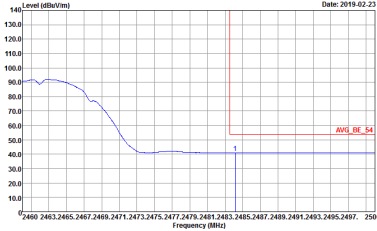
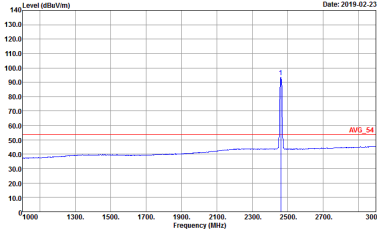
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank

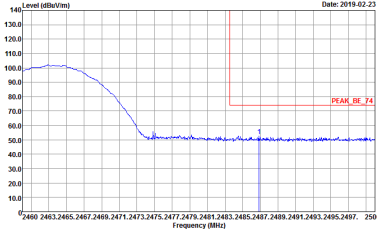
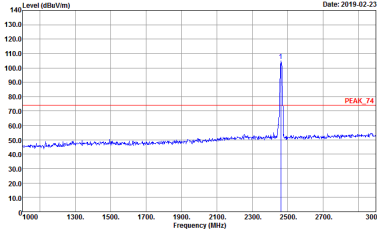
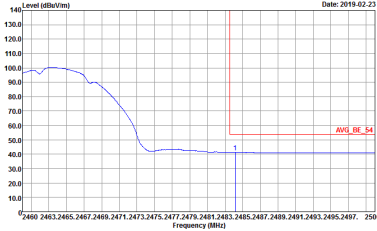
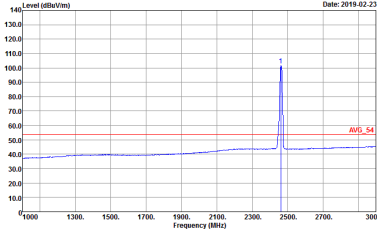
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank

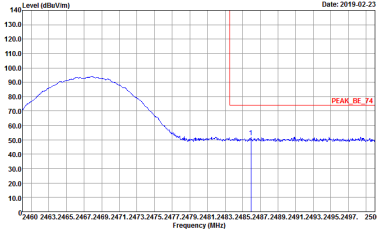
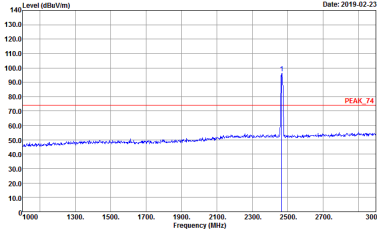
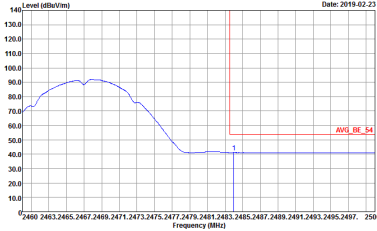
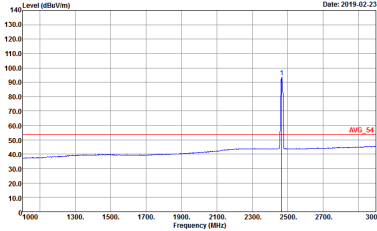


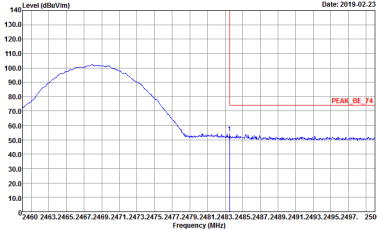
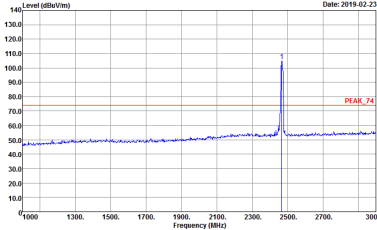
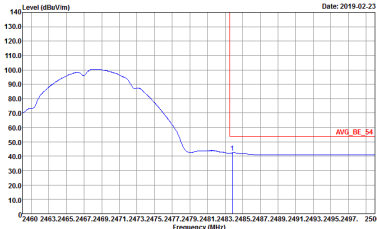
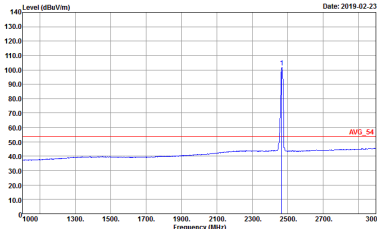
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C



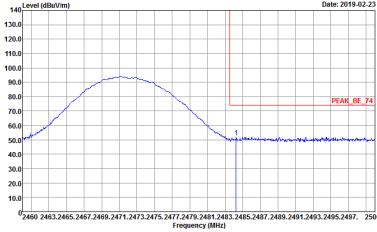
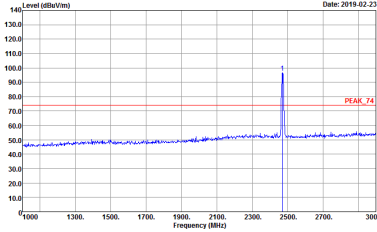
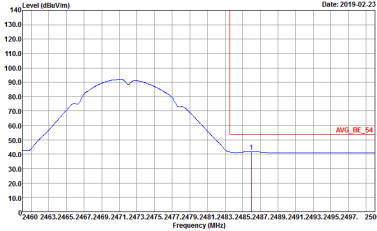
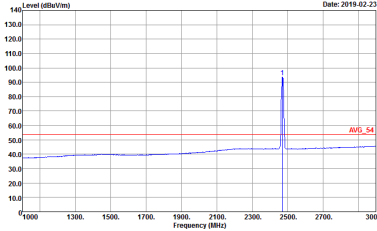
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal level starting around 100 dBuV/m at 2400 MHz, dropping to about 50 dBuV/m by 2462 MHz, and then remaining flat. A red line marks the peak level at 2462 MHz. Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBuV/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level starting around 50 dBuV/m at 2400 MHz, rising to a sharp peak of about 110 dBuV/m at 2462 MHz, and then dropping back to about 50 dBuV/m. A red line marks the peak level at 2462 MHz. Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Avg. Vertical. The plot shows a signal level starting around 100 dBuV/m at 2400 MHz, dropping to about 50 dBuV/m by 2462 MHz, and then remaining flat. A red line marks the average level at 2462 MHz. Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBuV/m) vs Frequency (MHz) plot for Avg. Fundamental. The plot shows a signal level starting around 50 dBuV/m at 2400 MHz, rising to a sharp peak of about 110 dBuV/m at 2462 MHz, and then dropping back to about 50 dBuV/m. A red line marks the average level at 2462 MHz. Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C



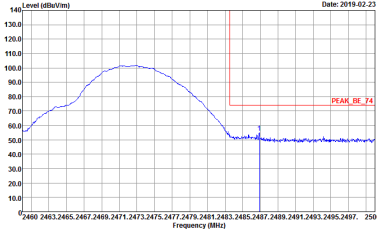
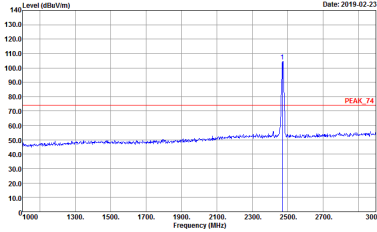
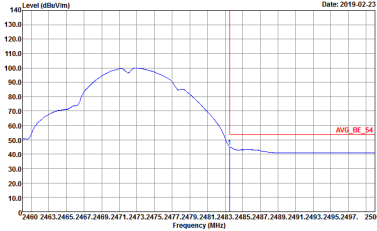
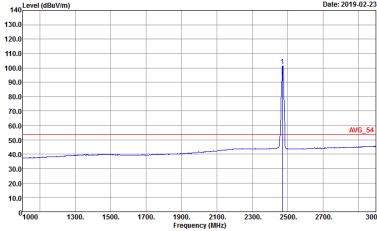
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 74 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a sharp peak at 2467 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 74 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 54 dBm/100kHz. Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 54 dBm/100kHz. Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2472 MHz. The peak is labeled 'PEAK_BE_74'. Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2472 MHz. The peak is labeled 'PEAK_74'. Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2472 MHz. The level is labeled 'AVG_BE_54'. Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2472 MHz. The level is labeled 'AVG_54'. Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C

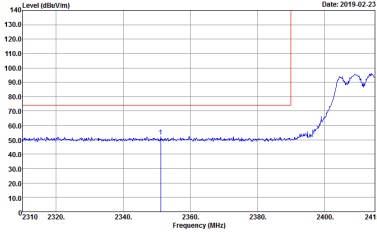
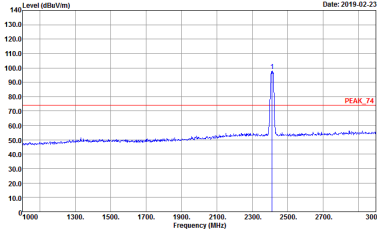
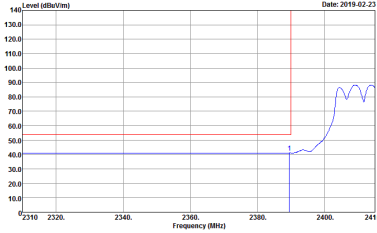
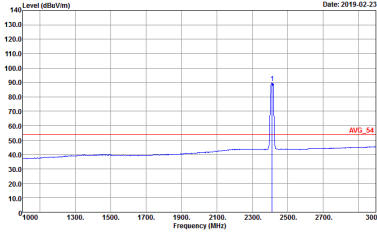


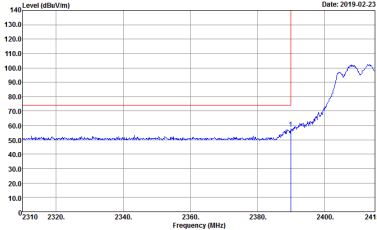
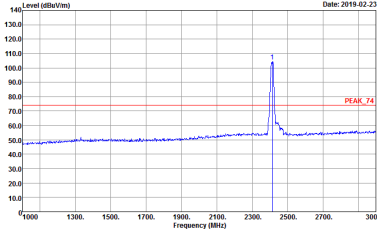
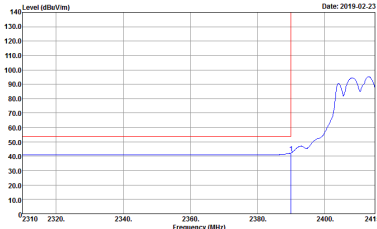
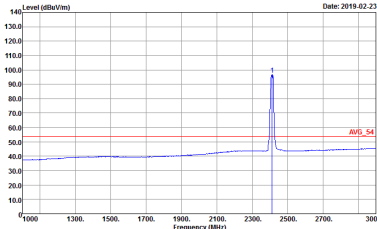
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C

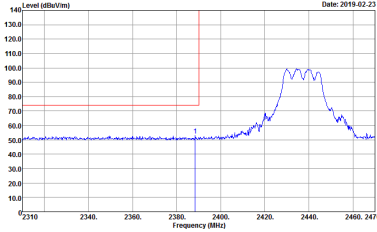
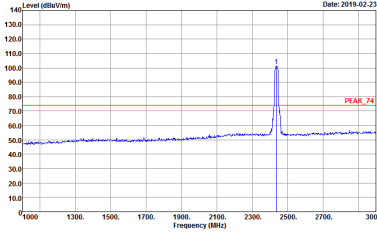
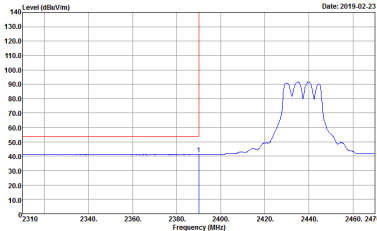
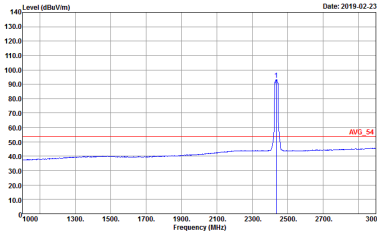


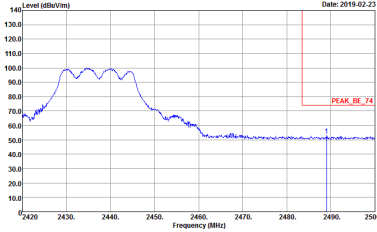
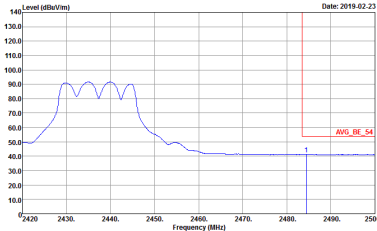
2.4GHz 2400~2483.5MHz

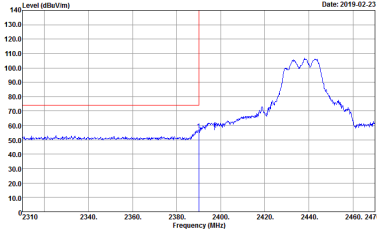
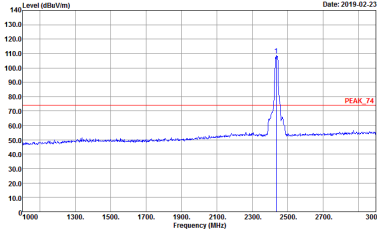
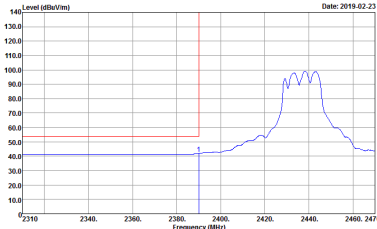
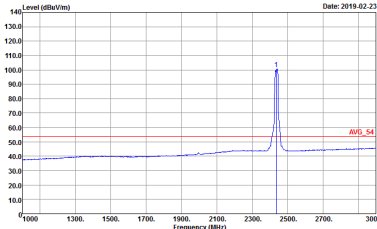
WIFI 802.11g (Band Edge @ 3m)

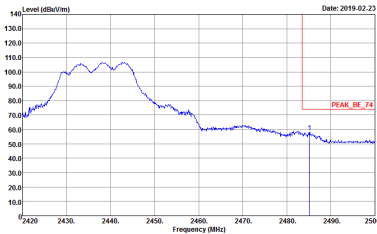
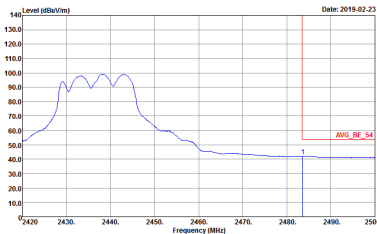
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17

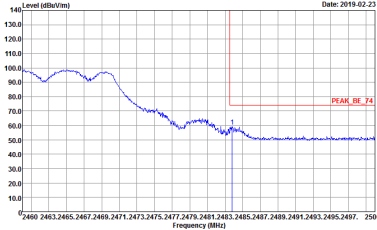
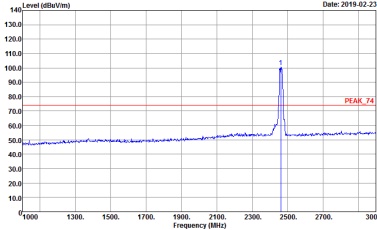
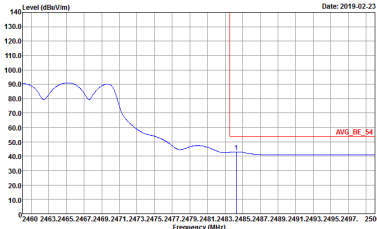
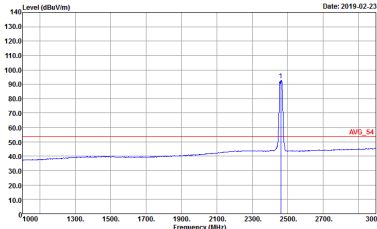
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 17

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02

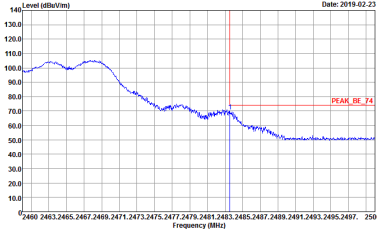
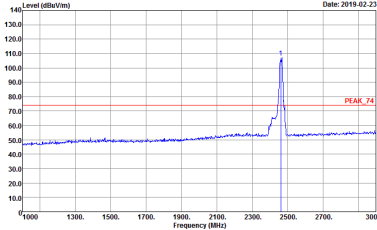
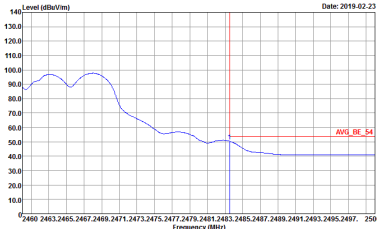
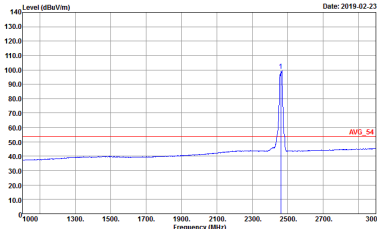
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank

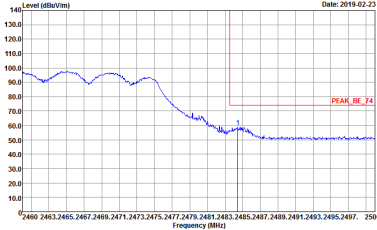
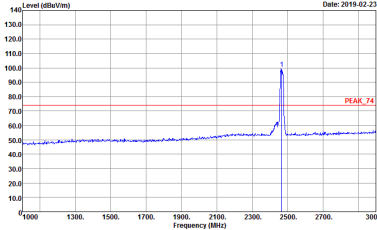
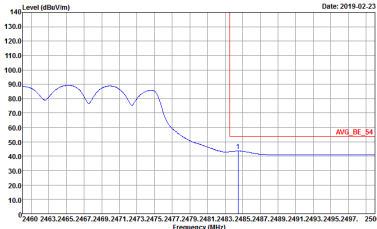
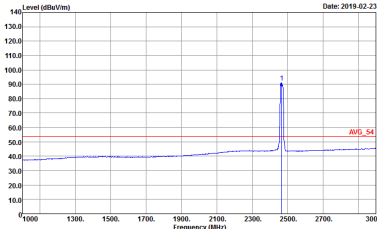
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1D	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1D
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1D	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1D



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1D	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1D
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1D	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1D

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1A	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1A
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1A	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1A

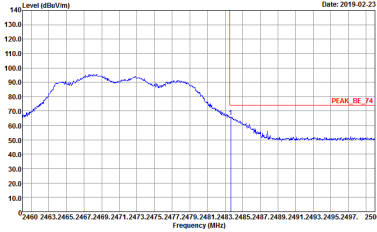
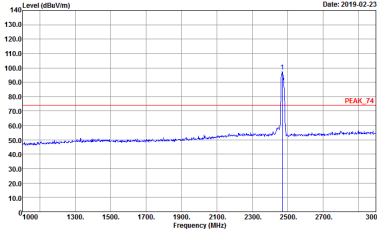
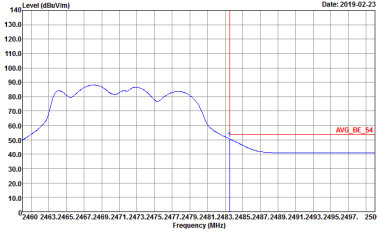
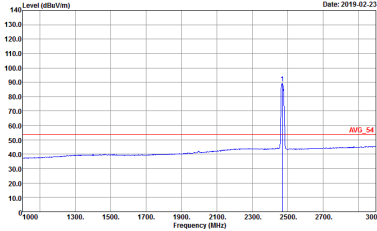


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 1A	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 1A
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 1A	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 1A



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08

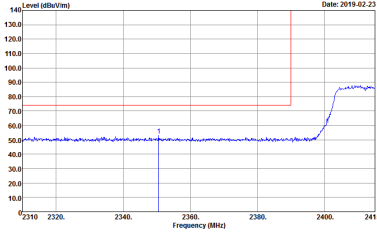
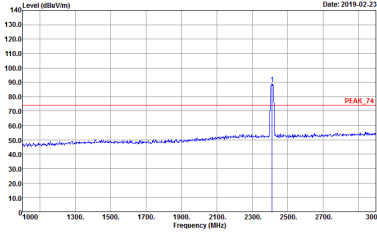
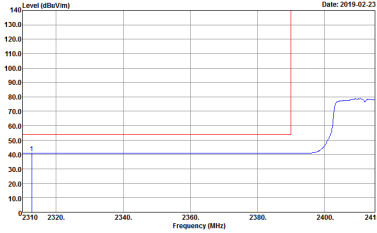
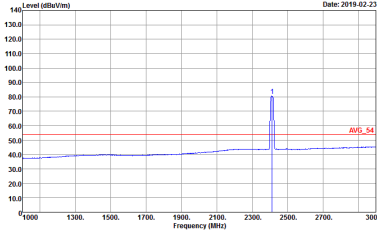


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 08
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 08

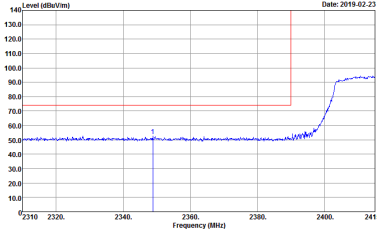
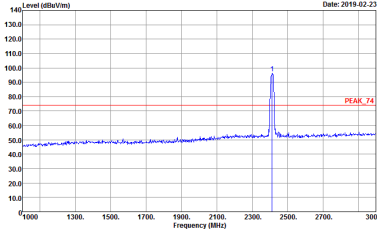
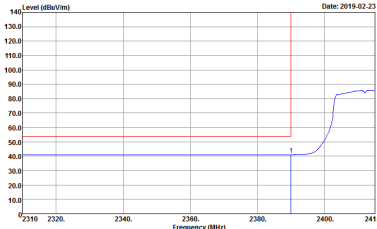
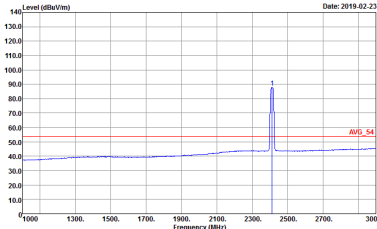


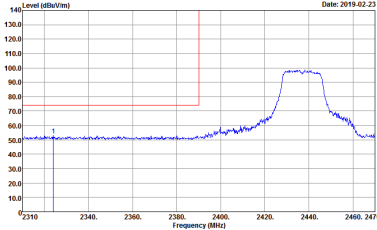
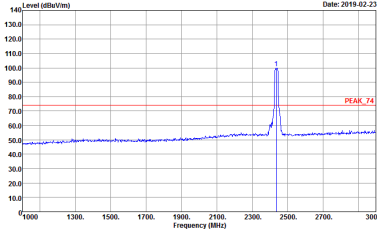
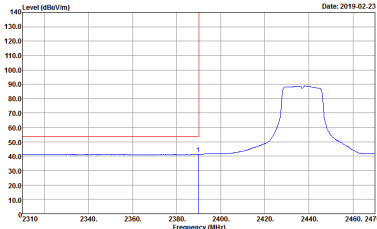
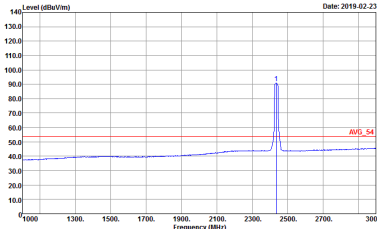
2.4GHz 2400~2483.5MHz

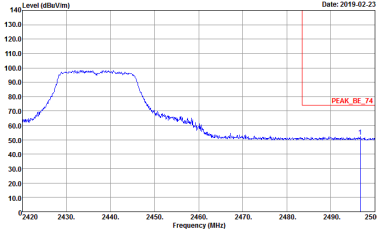
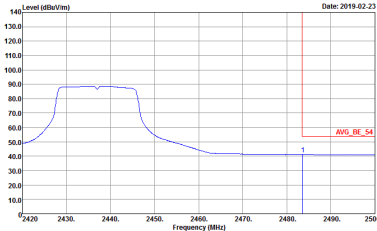
WIFI 802.11n HT20 (Band Edge @ 3m)

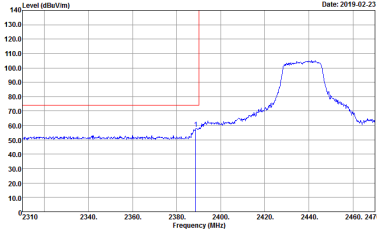
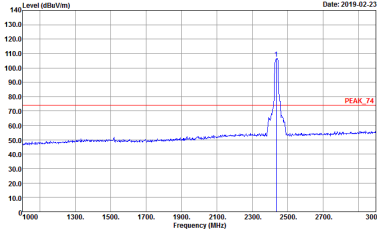
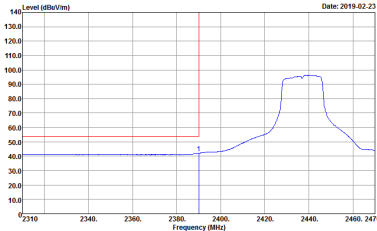
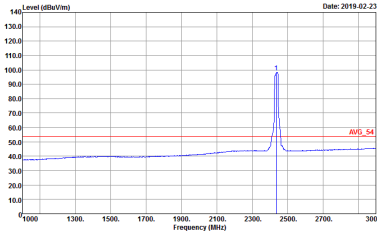
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08



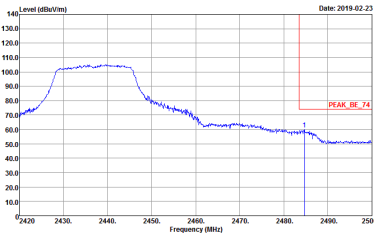
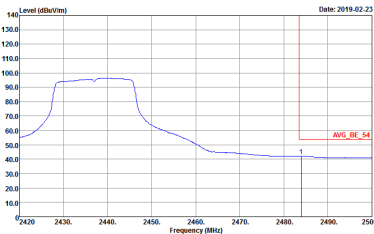
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 08

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02

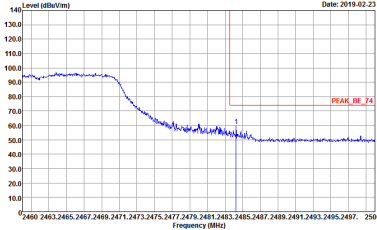
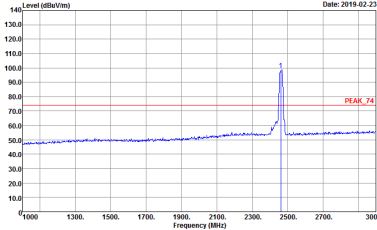
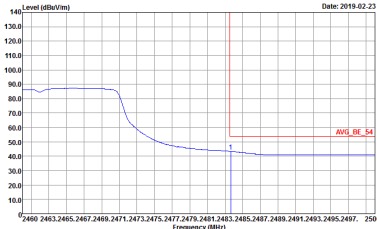
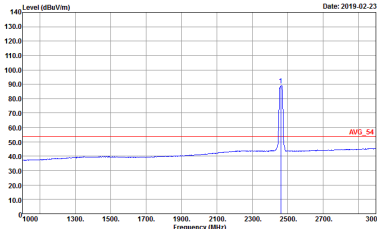
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Left blank

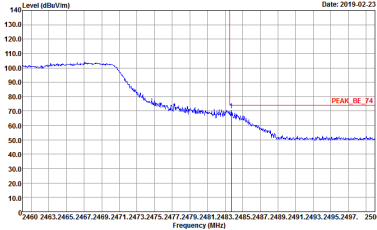
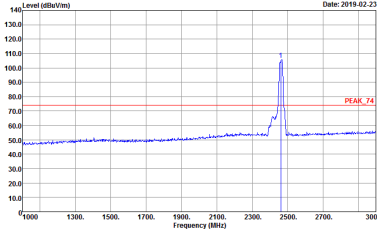
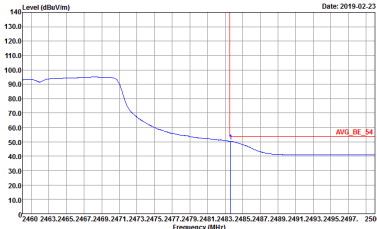
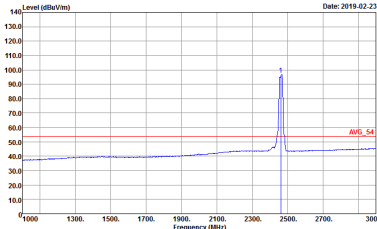
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02



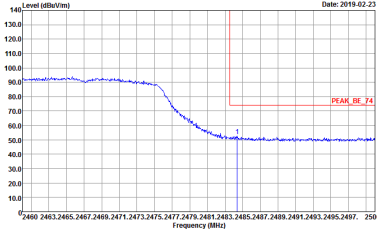
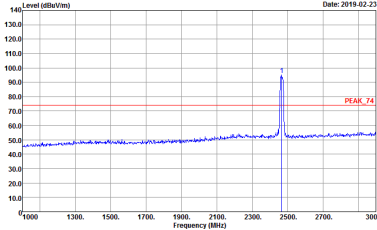
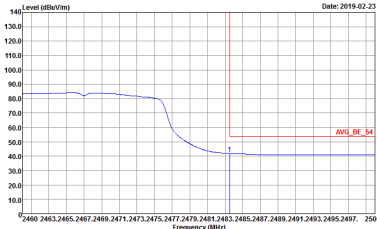
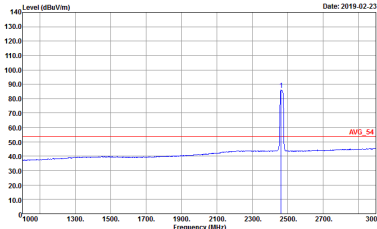
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02	Left blank

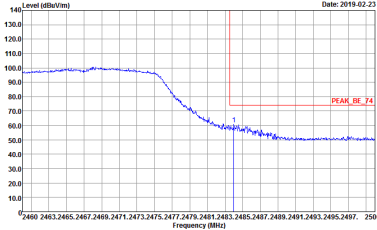
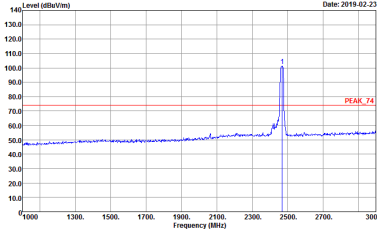
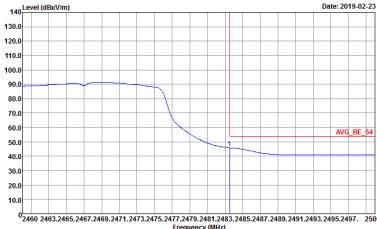
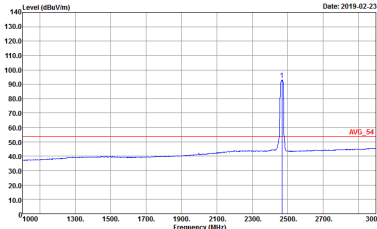


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the peak level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the peak level at approximately 100.0 dBm/100kHz. Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2460 to 2500 MHz. A red line indicates the average level at approximately 50.0 dBm/100kHz. Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Level (dBm/100kHz) vs Frequency (MHz) plot showing an average level at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the average level at approximately 50.0 dBm/100kHz. Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 1C

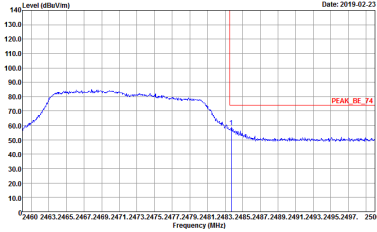
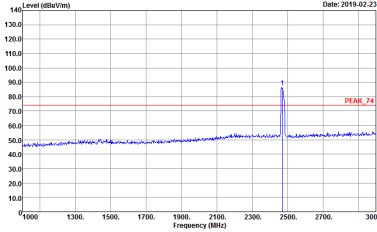
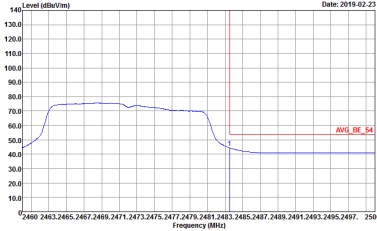
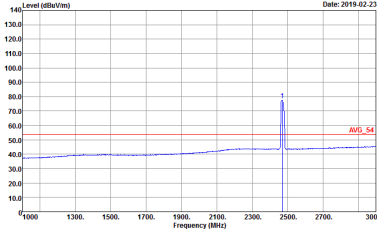
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 1C

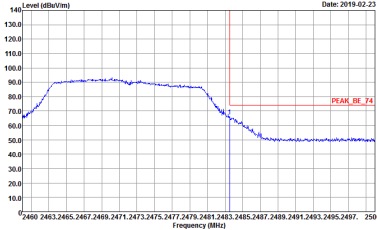
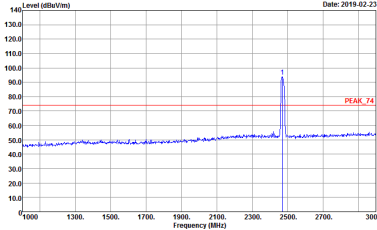
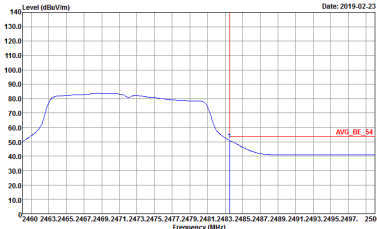
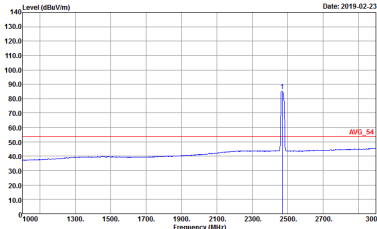


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 15	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 15
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 15	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 15

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 15	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 15
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 15	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 15



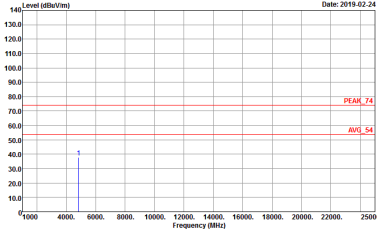
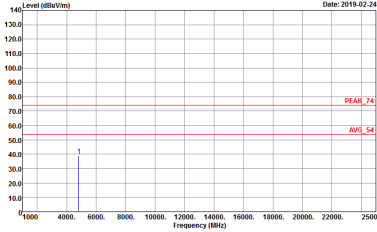
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 04	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 04
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 04	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 04

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 04	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 04
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 04	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 802423-02 Setting : 0 X 04



2.4GHz 2400~2483.5MHz

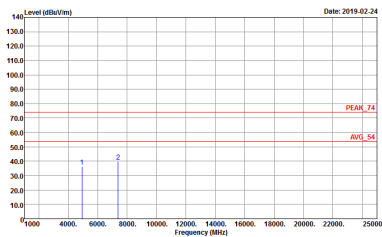
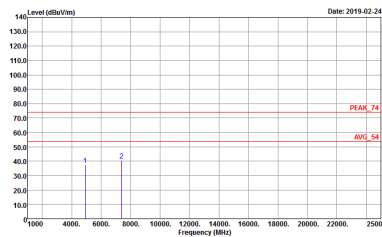
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 10	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 10

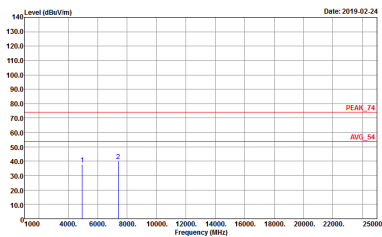
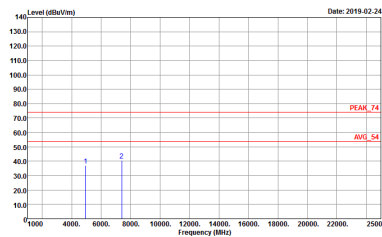


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02

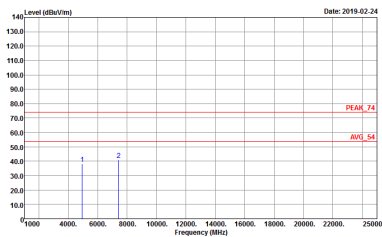
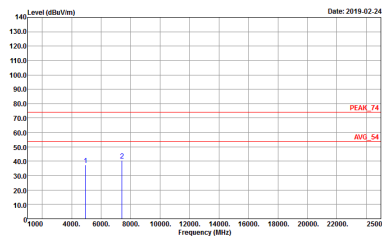


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 1C	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 1C



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 1C	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 1C

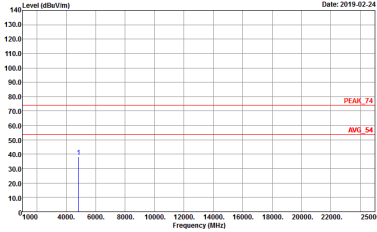
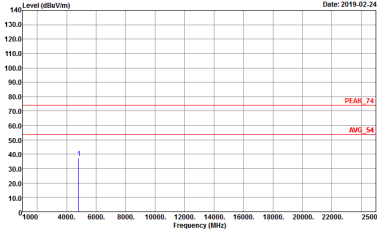


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 1C	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 1C



2.4GHz 2400~2483.5MHz

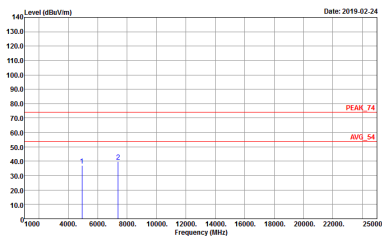
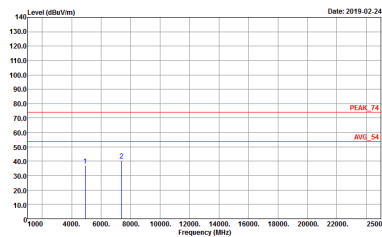
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 17

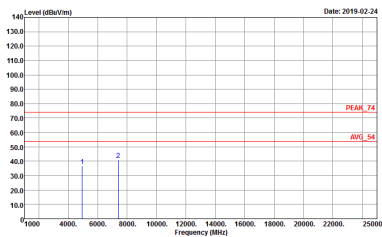
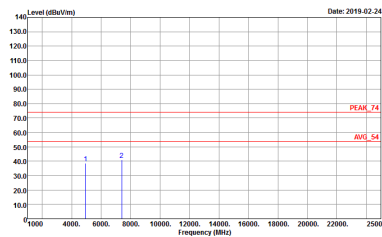


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X ID	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X ID



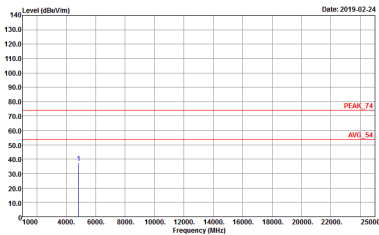
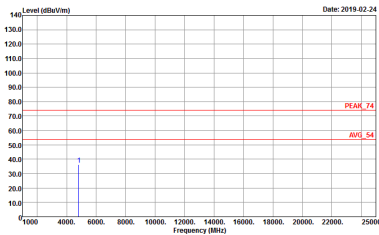
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 1A	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 1A



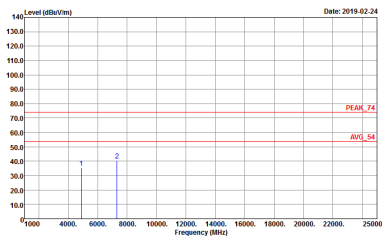
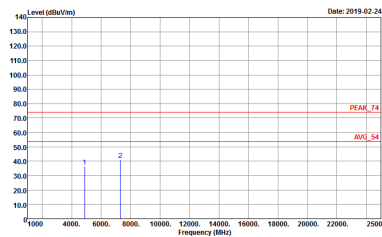
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 08	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 08



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 08	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 08

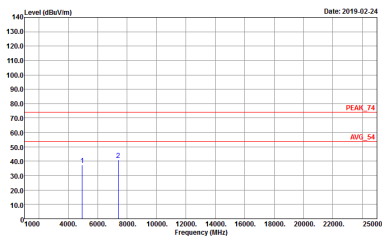
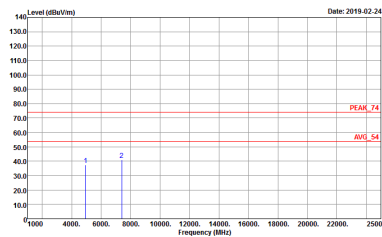


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8O2423-02	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 8O2423-02



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-02-24 Frequency (MHz) Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 1C	Level (dBuV/m) Date: 2019-02-24 Frequency (MHz) Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 1C

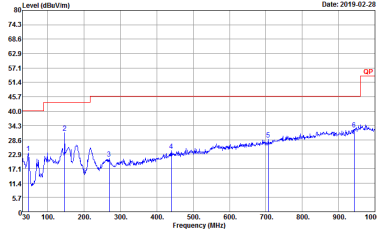
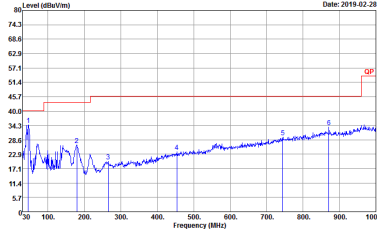


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : 0 X 15	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : 0 X 15



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-02-24 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 802423-02 Setting : O X 03	Level (dBuV/m) Date: 2019-02-24 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 802423-02 Setting : O X 03

Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 802423-02	 Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 802423-02



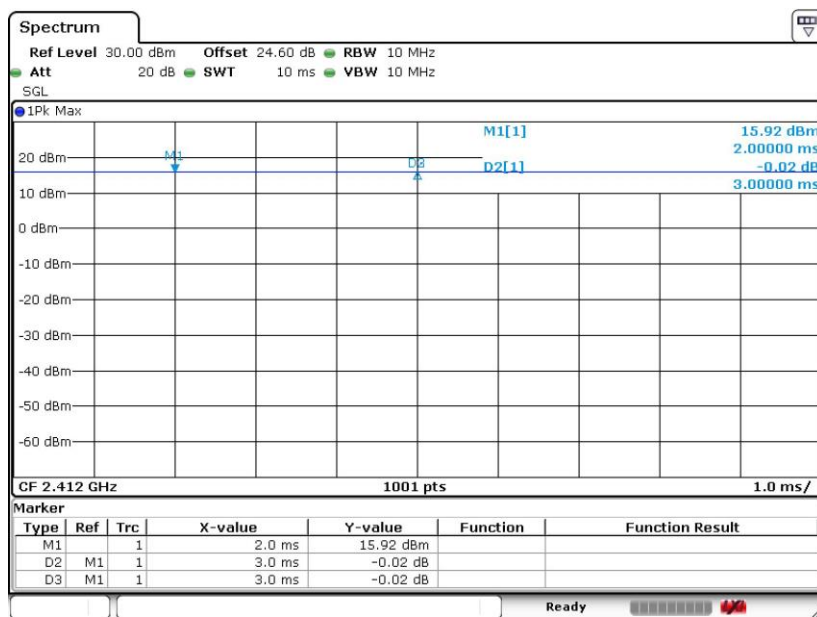
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	100.00	-	-	10Hz	0.00
2	802.11b	100.00	-	-	10Hz	0.00
1+2	802.11b for Ant. 1	100.00	-	-	10Hz	0.00
1+2	802.11b for Ant. 2	100.00	-	-	10Hz	0.00
1	802.11g	98.30	-	-	10Hz	0.07
2	802.11g	98.31	-	-	10Hz	0.07
1+2	802.11g for Ant. 1	98.07	-	-	10Hz	0.08
1+2	802.11g for Ant. 2	98.06	-	-	10Hz	0.09
1	2.4GHz 802.11n HT20	99.20	-	-	10Hz	0.03
2	2.4GHz 802.11n HT20	99.30	-	-	10Hz	0.03
1+2	2.4GHz 802.11n HT20 for Ant. 1	98.43	-	-	10Hz	0.07
1+2	2.4GHz 802.11n HT20 for Ant. 2	98.63	-	-	10Hz	0.06



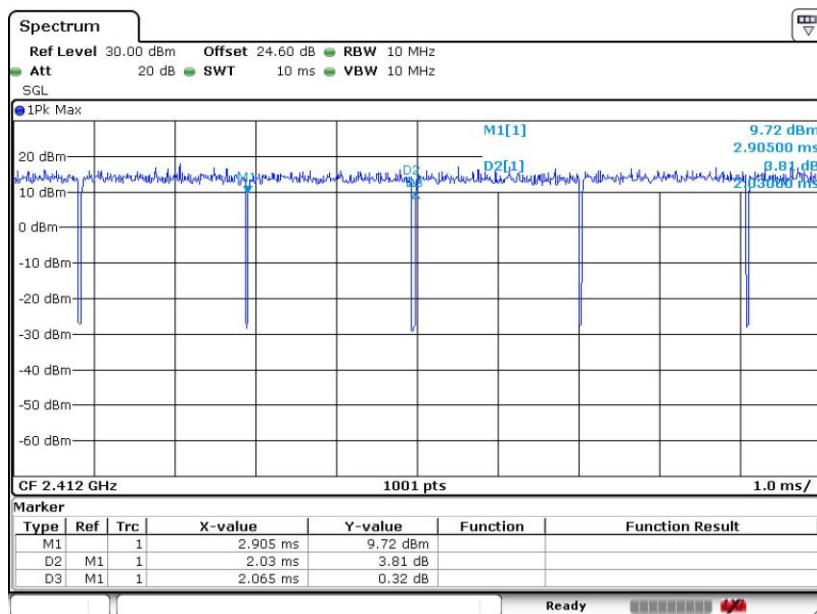
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802.11b



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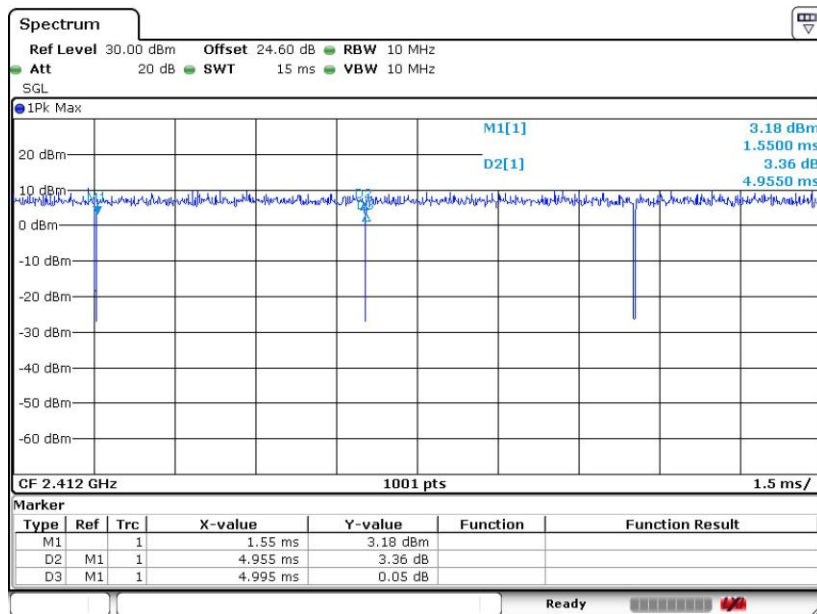
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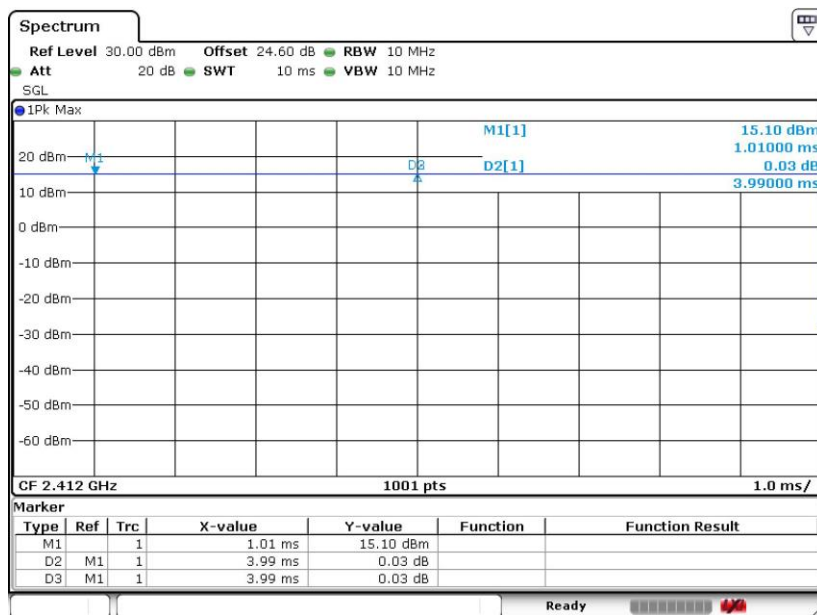
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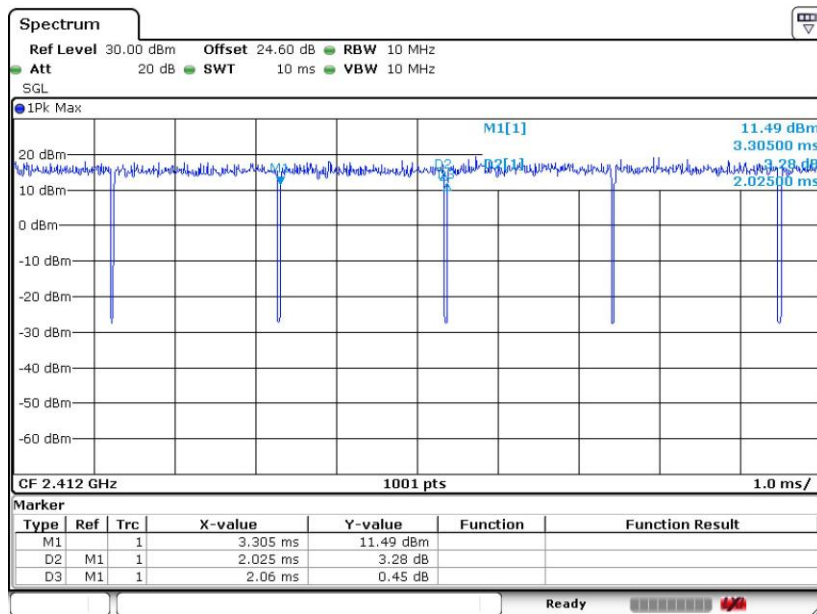
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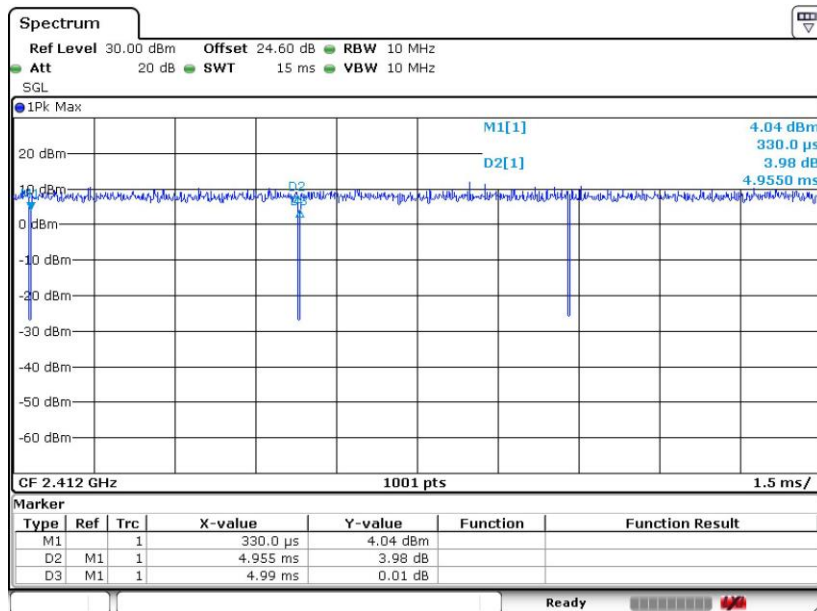


802.11g



Date: 15.FEB.2019 23:17:40

802.11n HT20

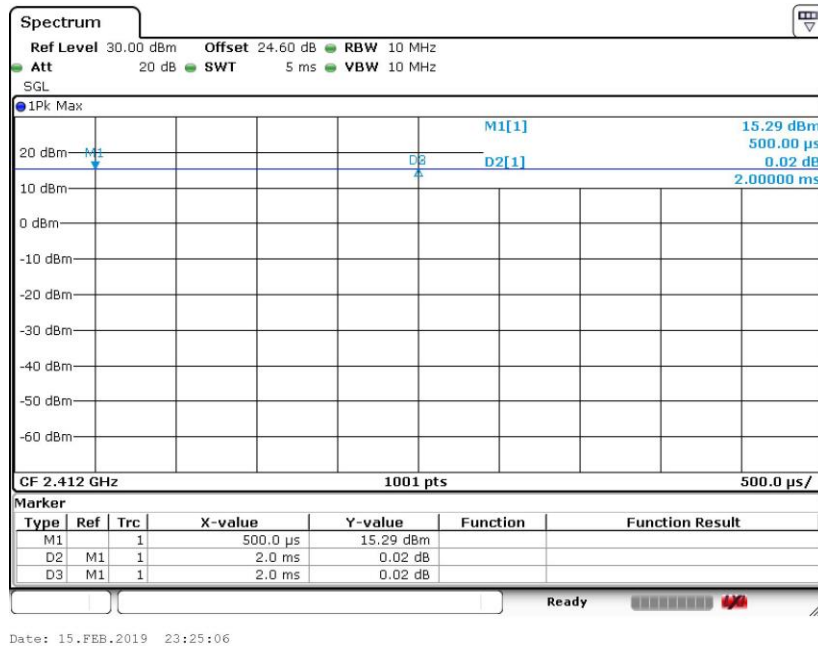


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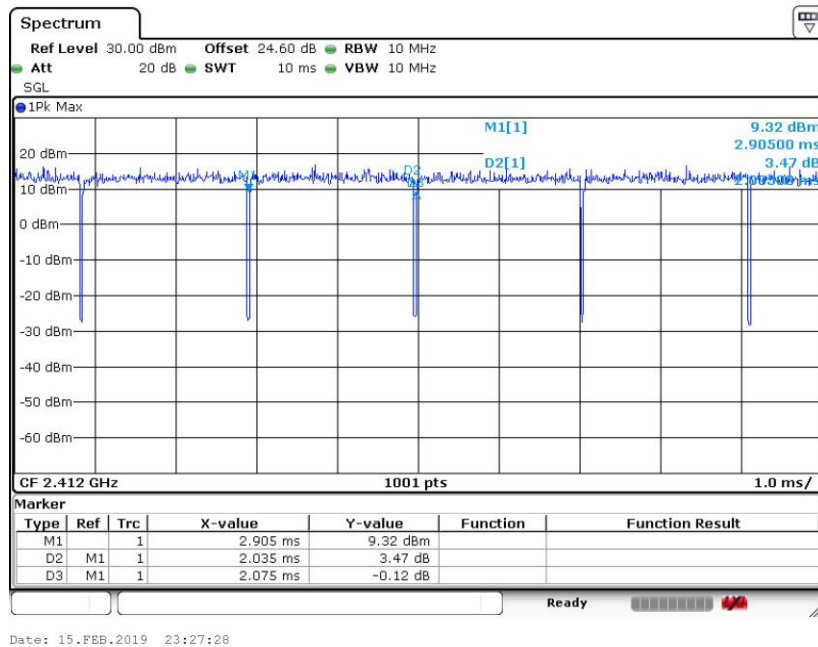


MIMO <Ant. 1>

802.11b

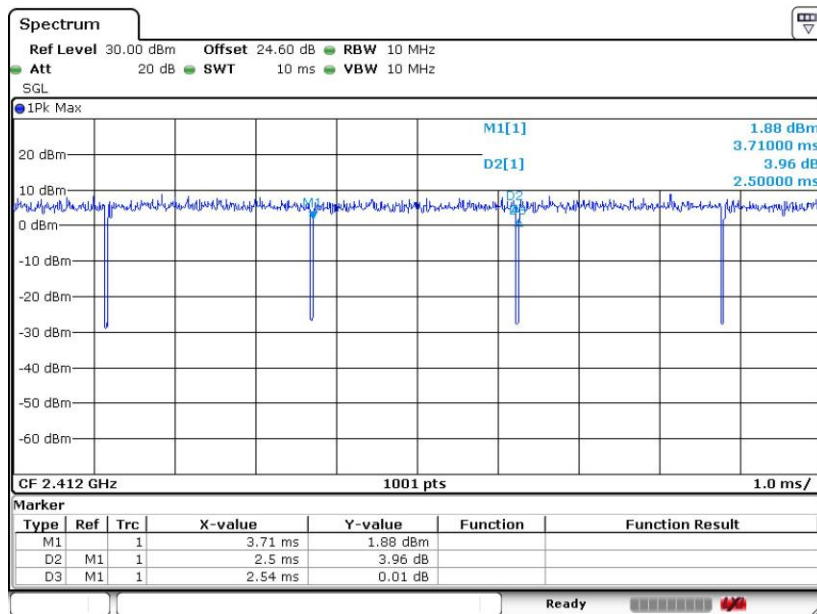


802.11g





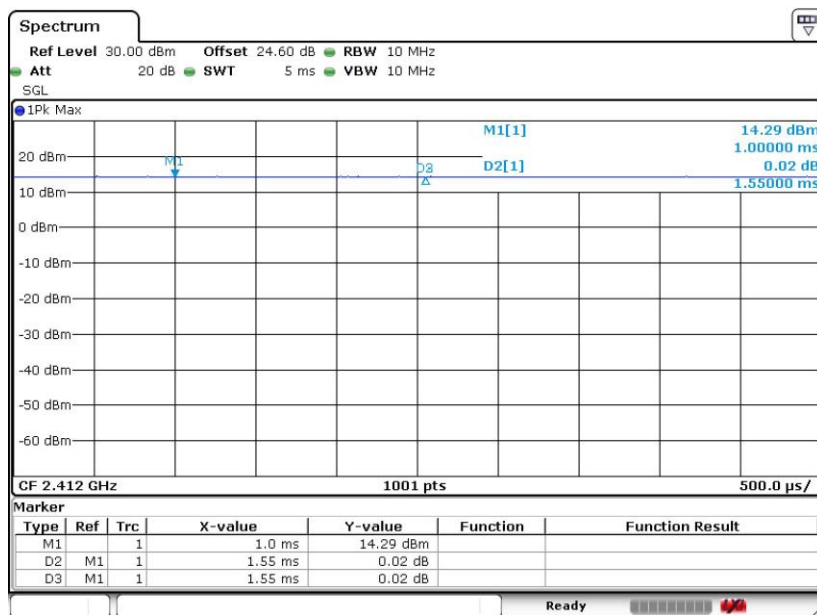
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MIMO <Ant. 2>

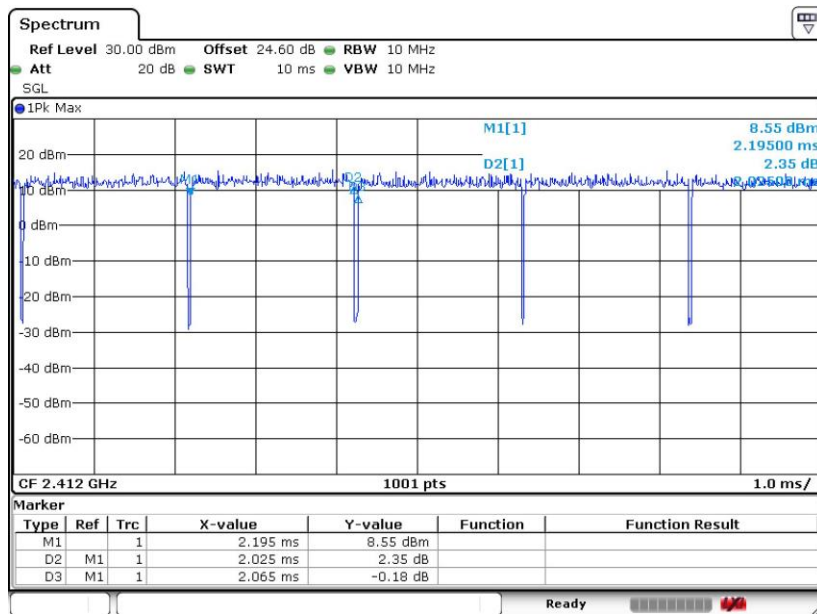
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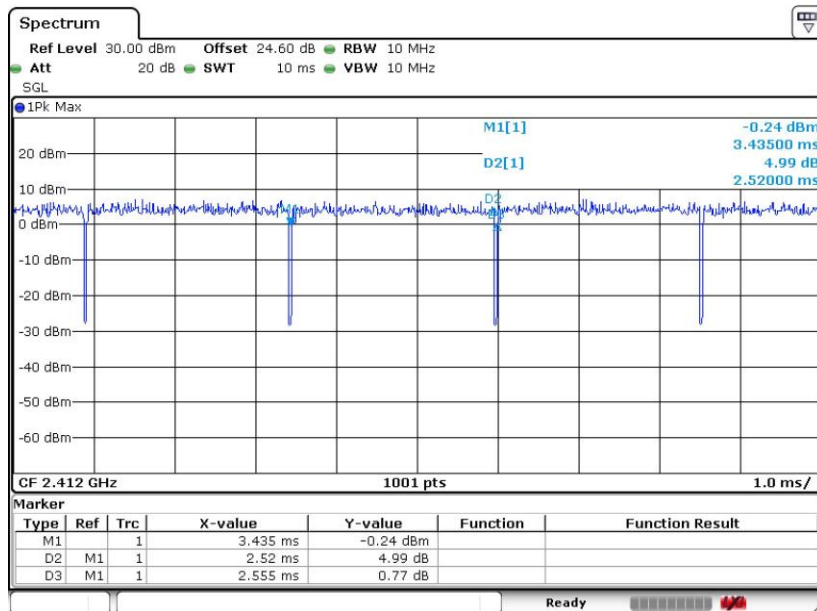


802.11g



Date: 15.FEB.2019 23:26:48

802.11n HT20



Date: 15.FEB.2019 23:29:17

—THE END—