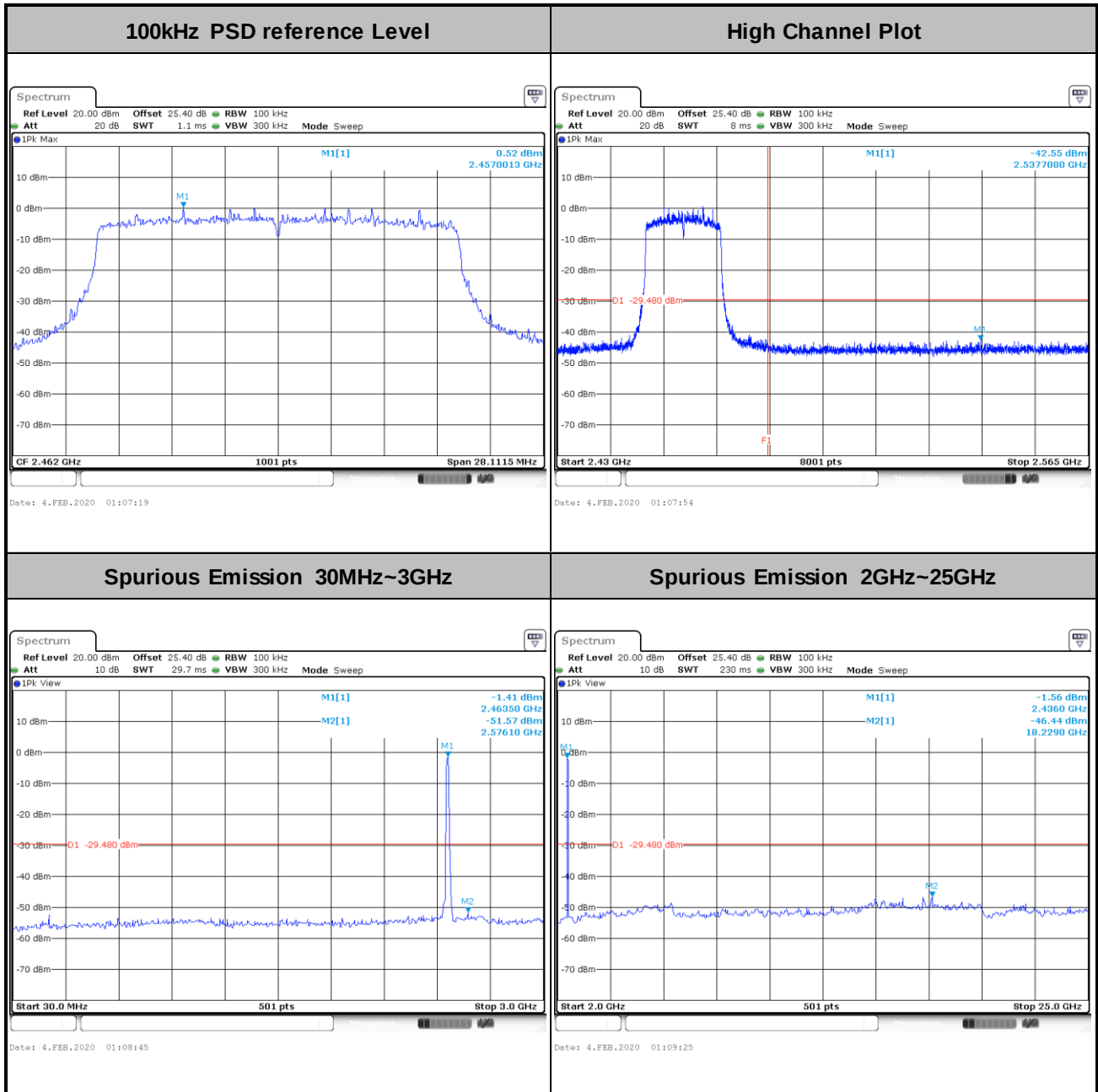


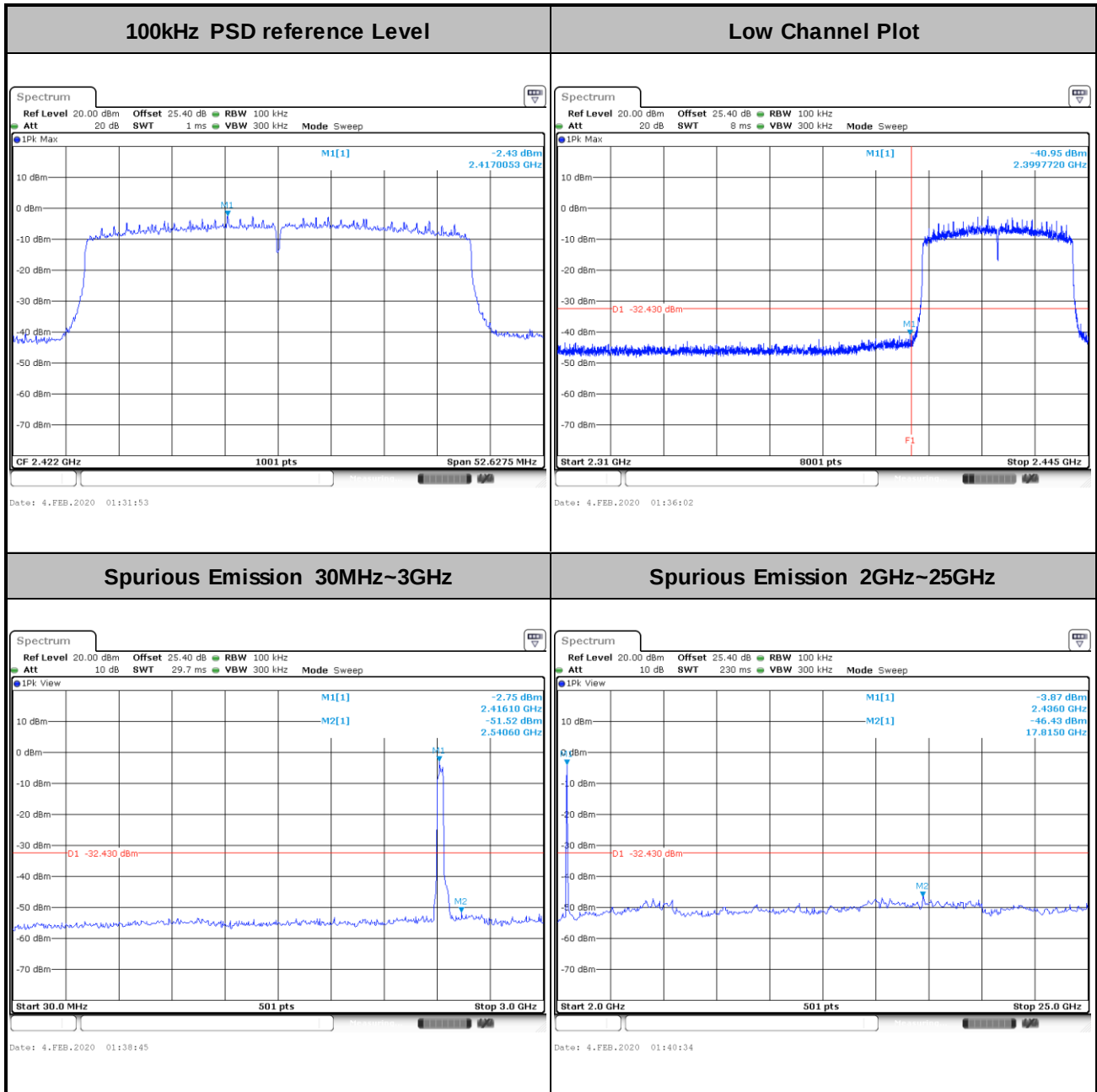


Test Mode :	802.11ax HE20	Test Channel :	11
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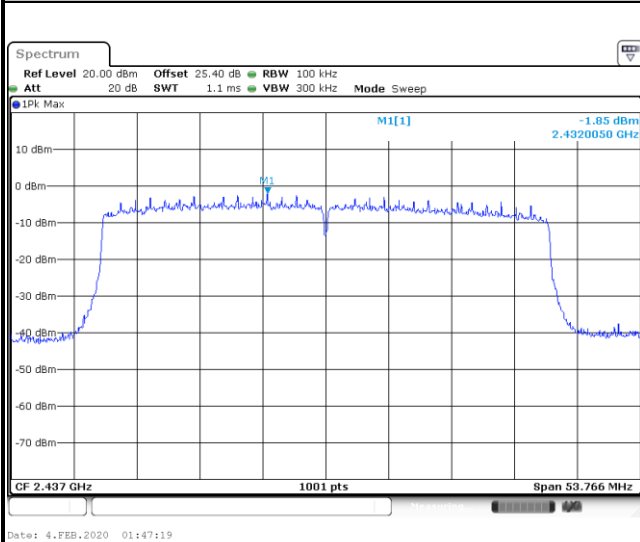
Test Mode :	802.11ax HE40	Test Channel :	03
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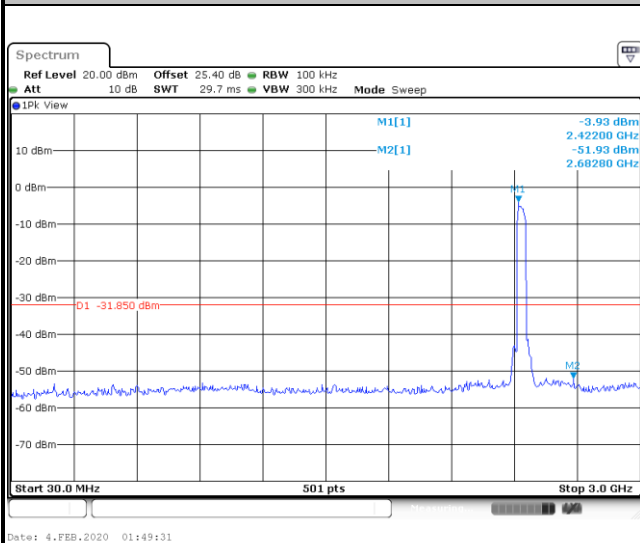
Test Mode :	802.11ax HE40	Test Channel :	06
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100kHz PSD reference Level

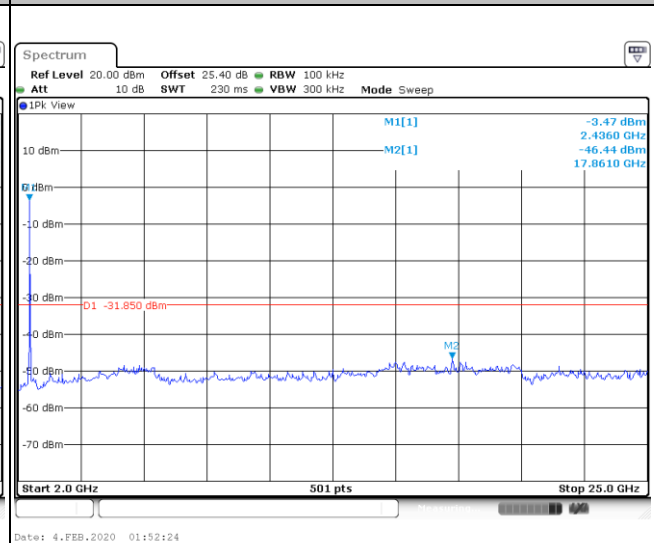


Mid Channel Plot

Spurious Emission 30MHz~3GHz

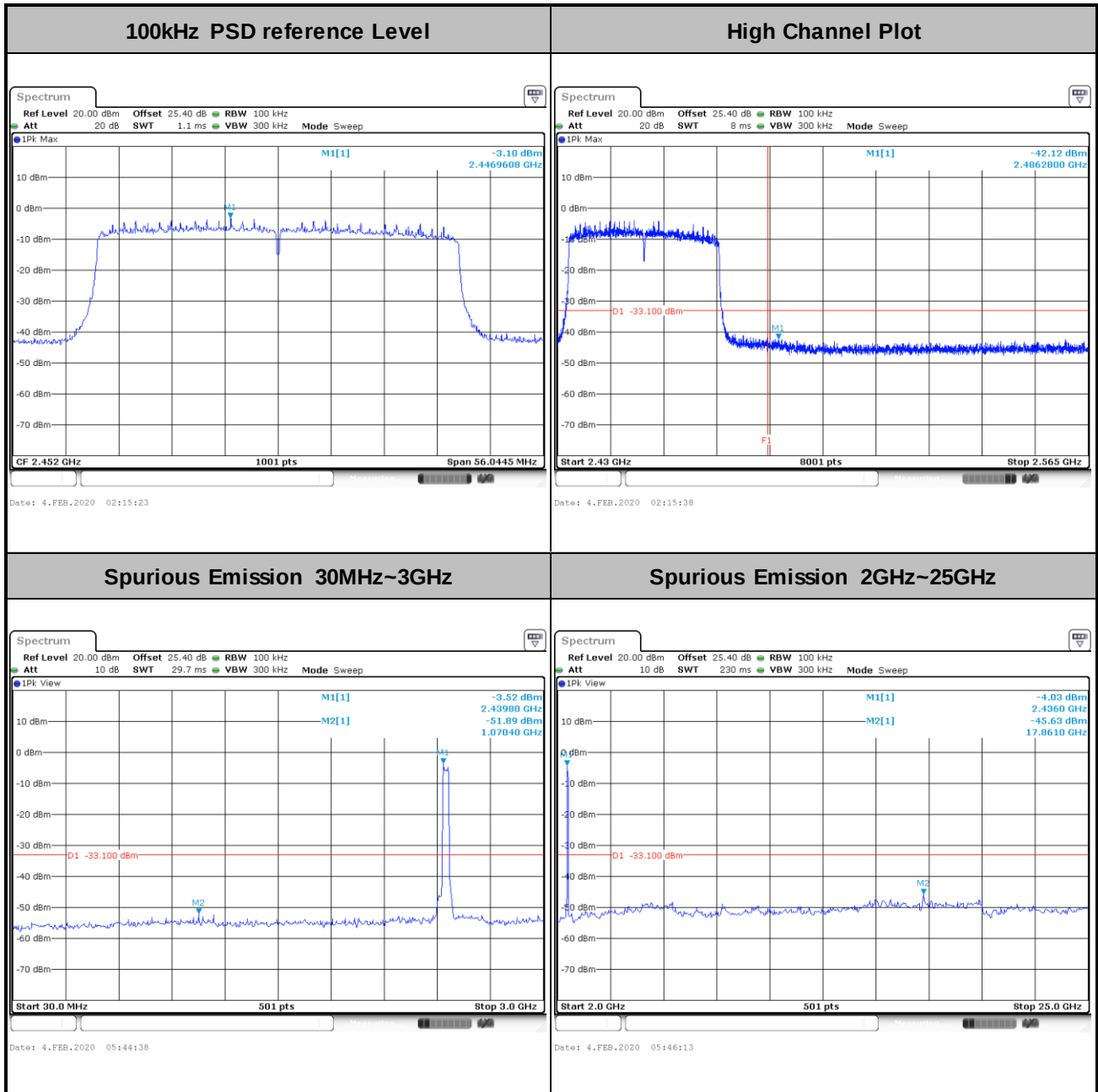


Spurious Emission 2GHz~25GHz





Test Mode :	802.11ax HE40	Test Channel :	09
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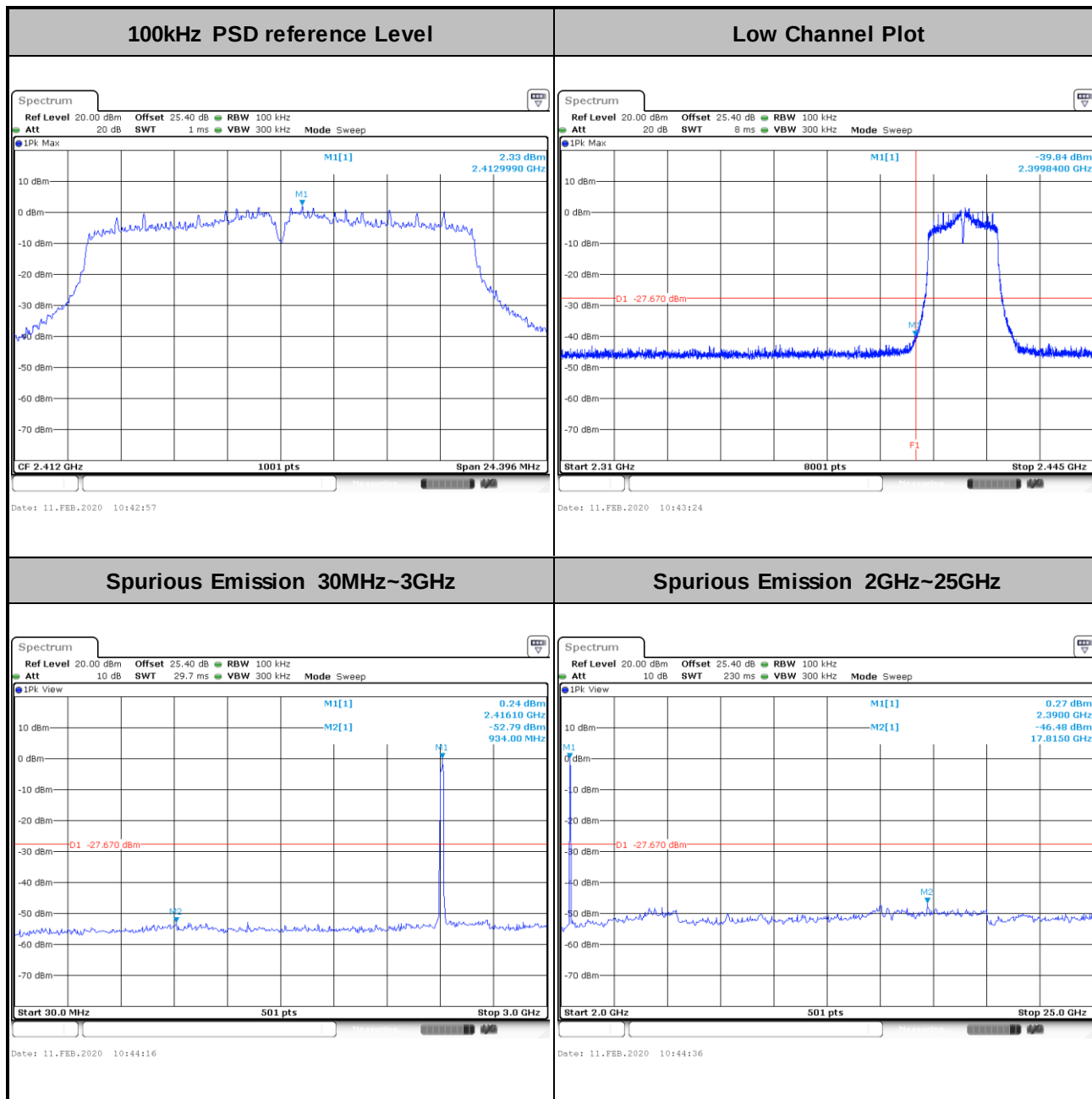




<TXBF Mode>

Number of TX = 2, Ant. 1 (Measured)

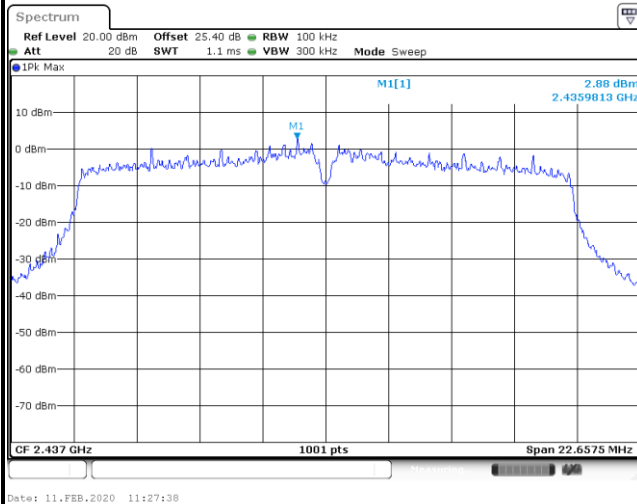
Test Mode :	802.11n HT20	Test Channel :	01
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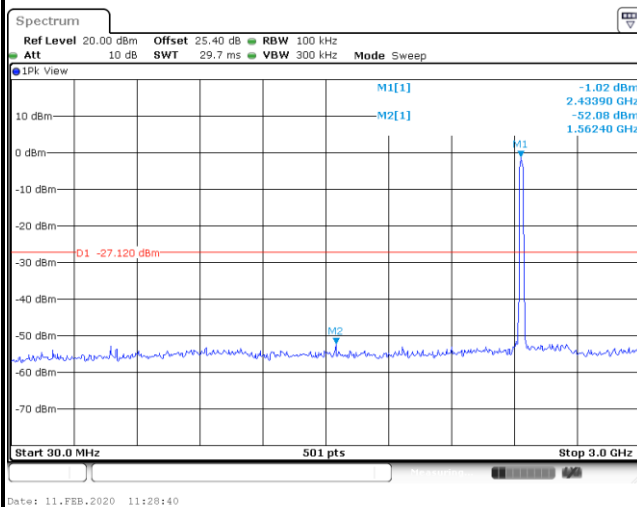
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

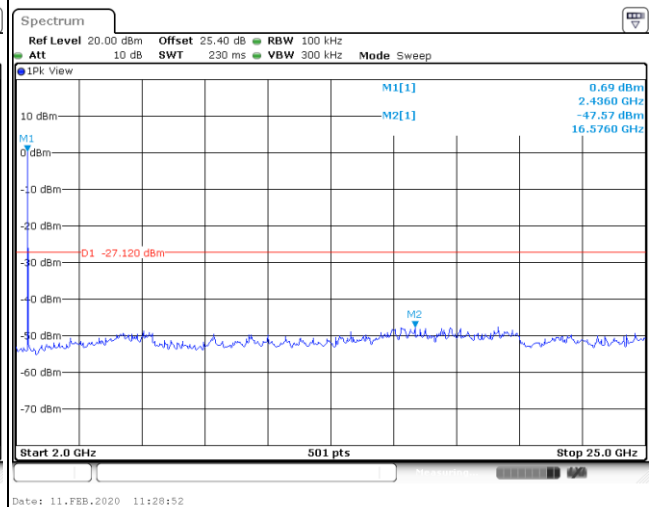


Mid Channel Plot

Spurious Emission 30MHz~3GHz

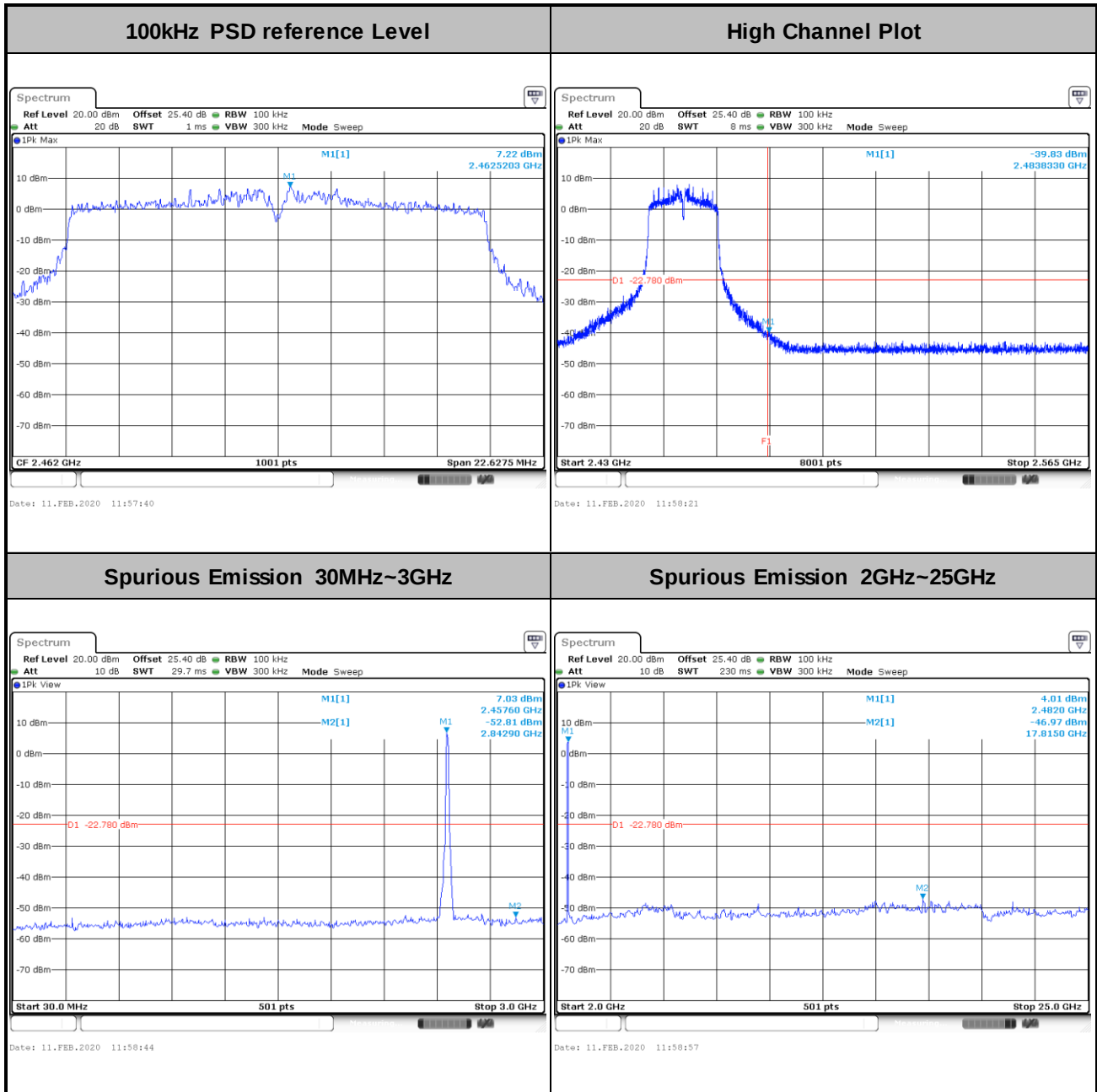


Spurious Emission 2GHz~25GHz



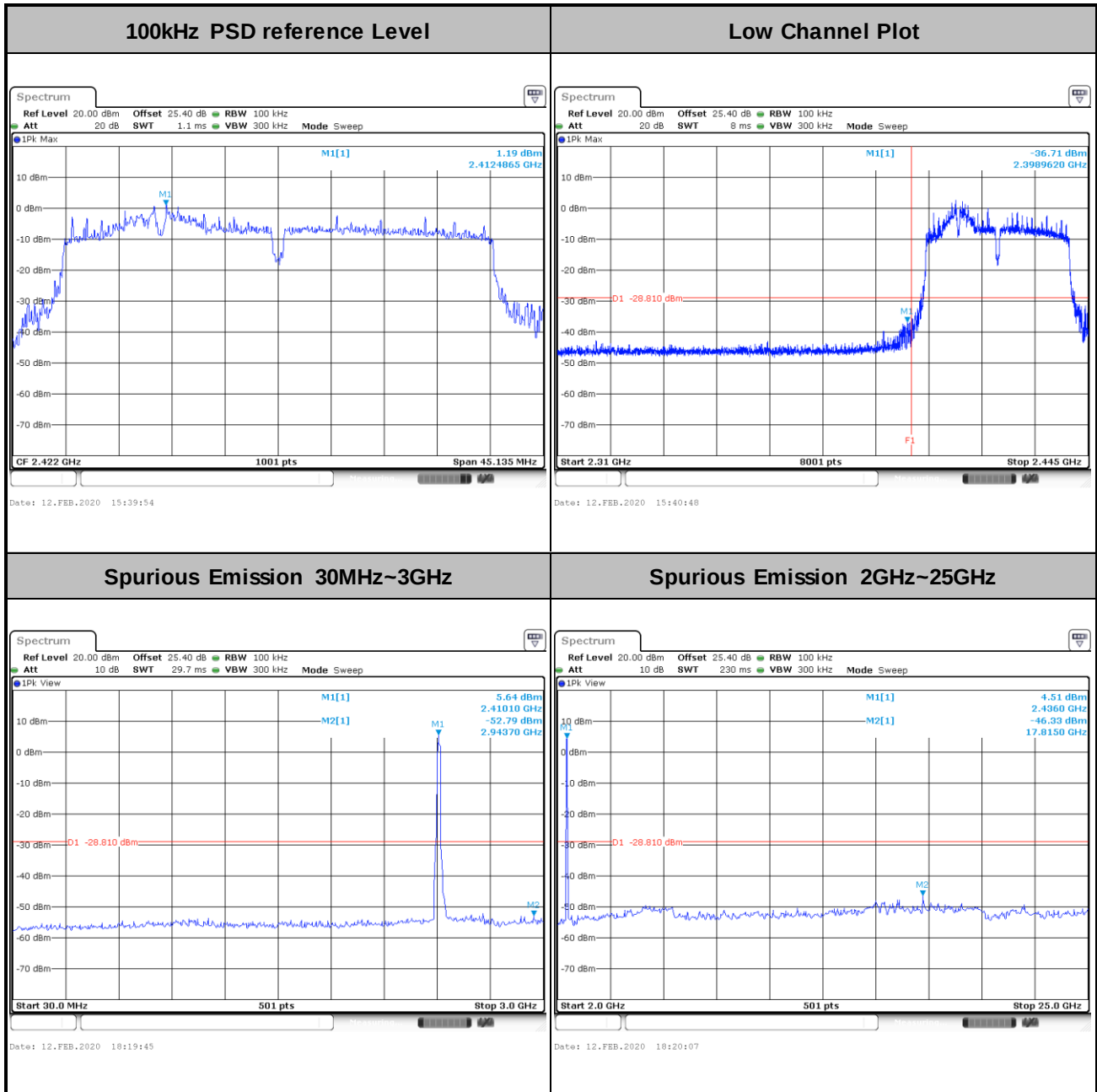


Test Mode :	802.11n HT20	Test Channel :	11
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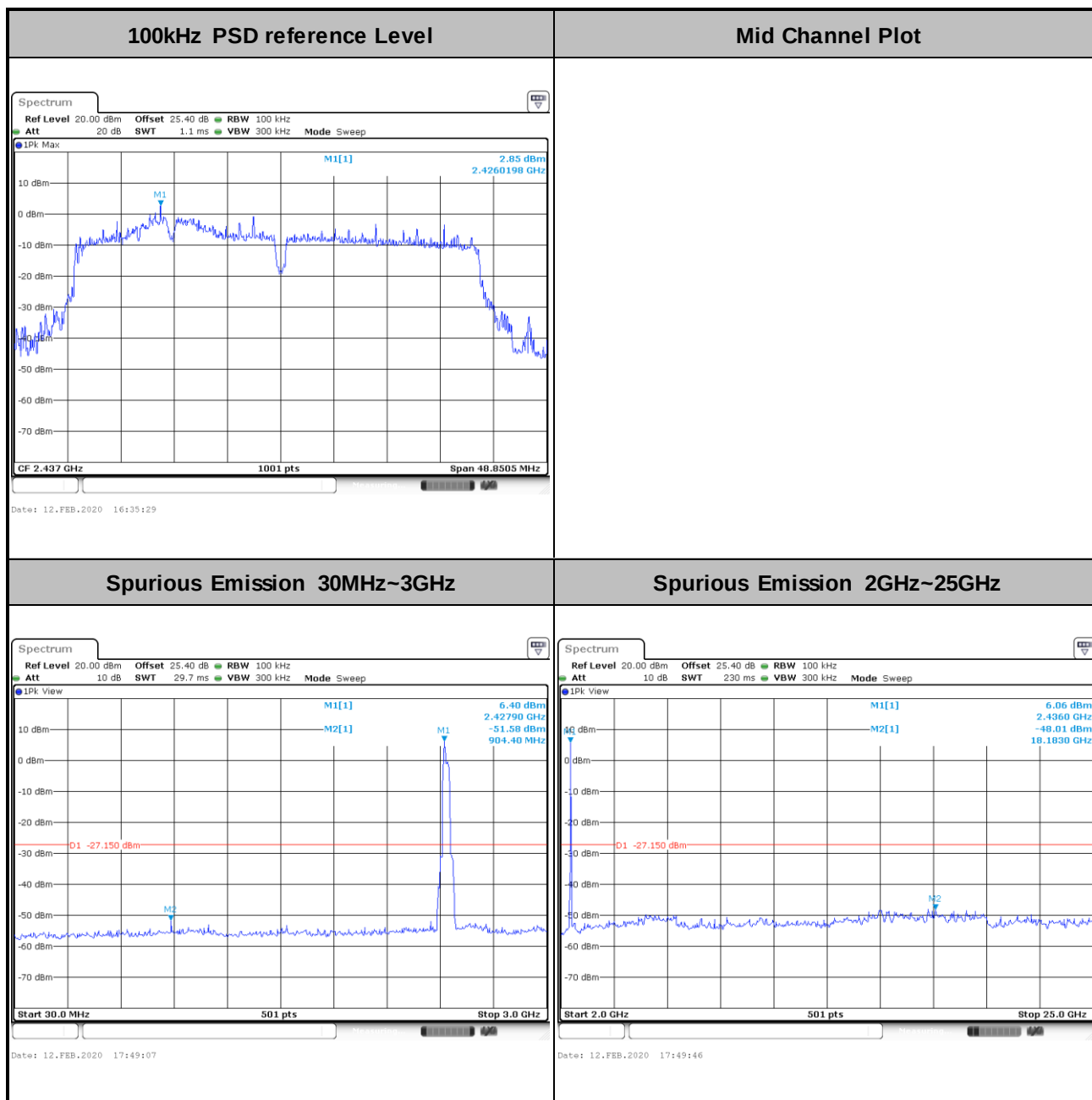


Test Mode :	802.11n HT40	Test Channel :	03
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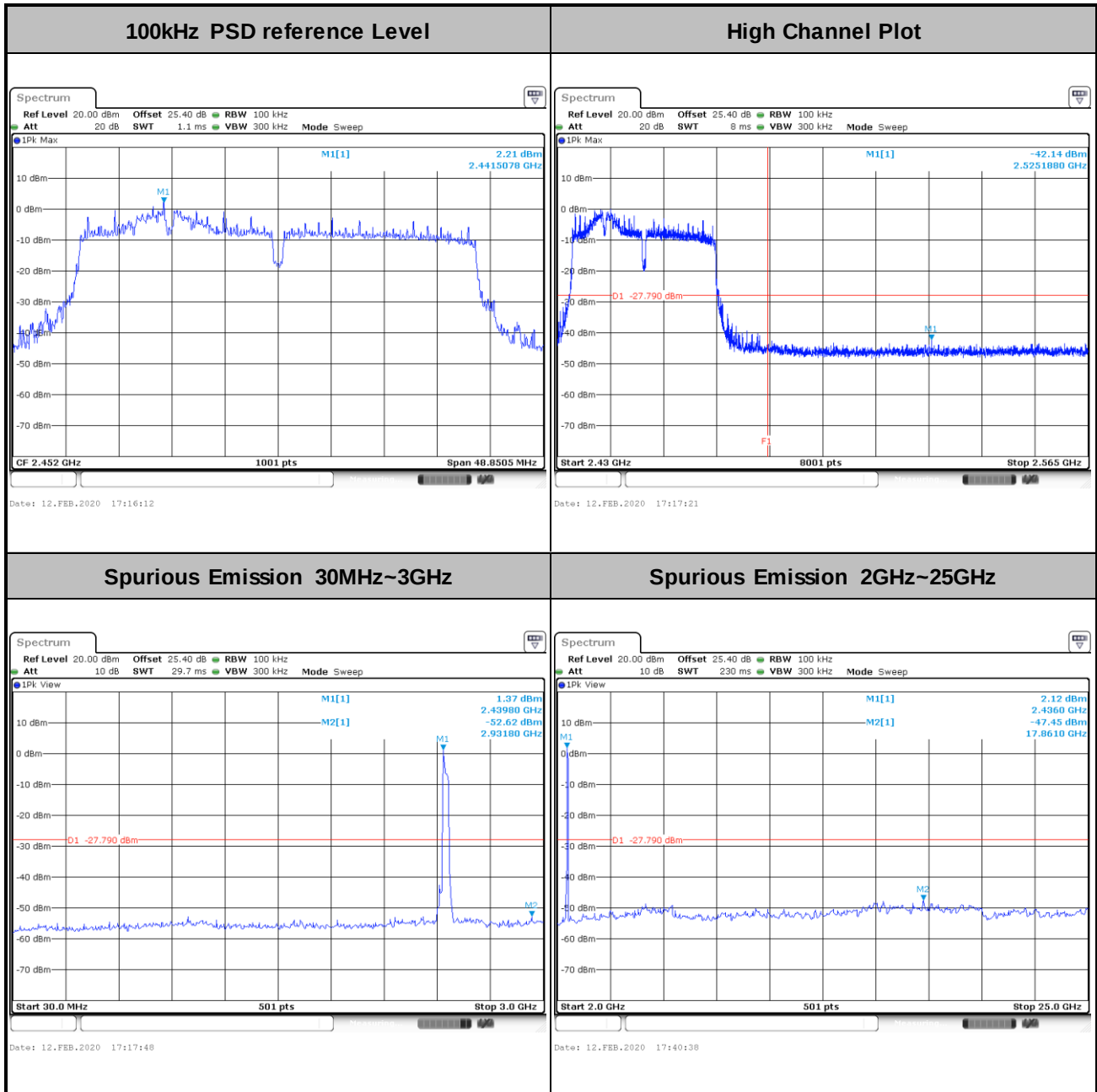


Test Mode :	802.11n HT40	Test Channel :	06
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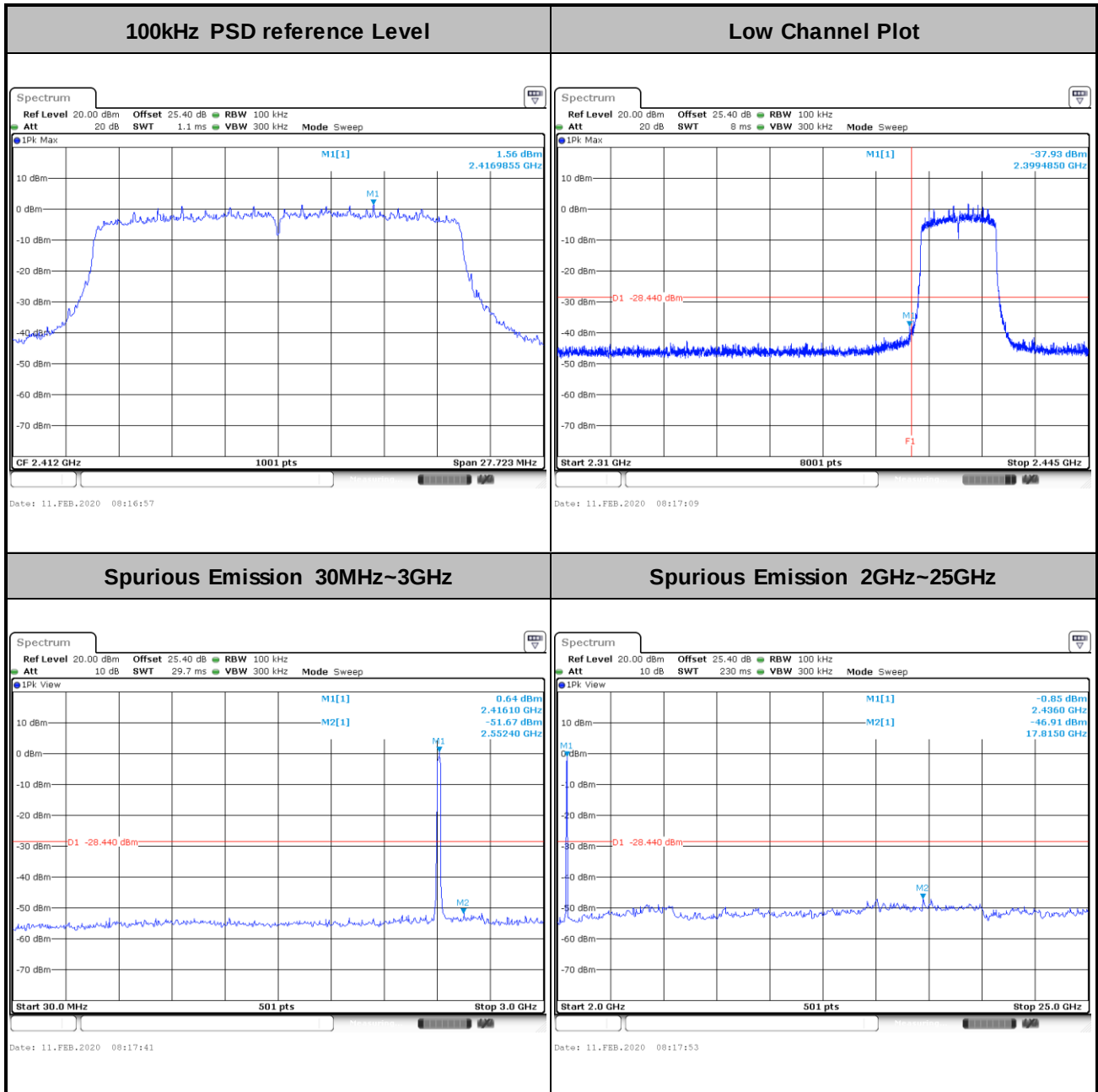


Test Mode :	802.11n HT40	Test Channel :	09
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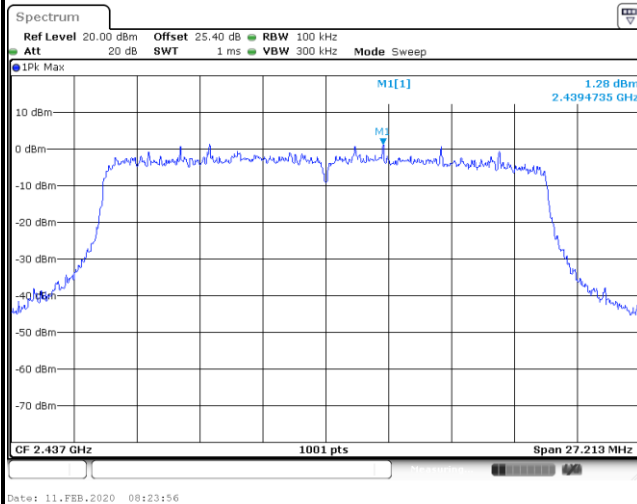
Test Mode :	802.11ax HE20	Test Channel :	01
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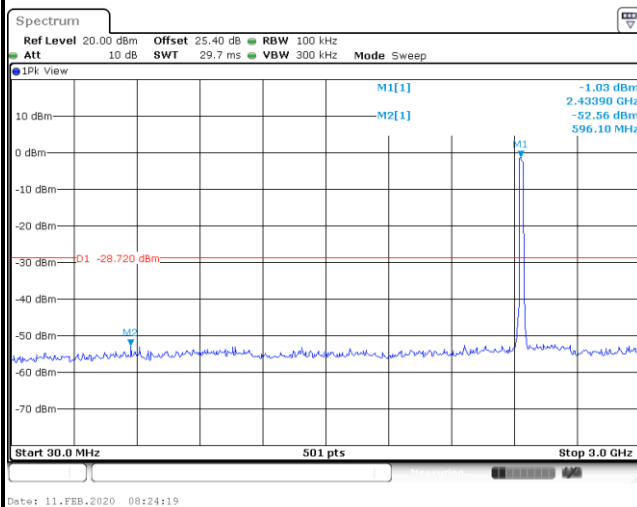
Test Mode :	802.11ax HE20	Test Channel :	06
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100kHz PSD reference Level

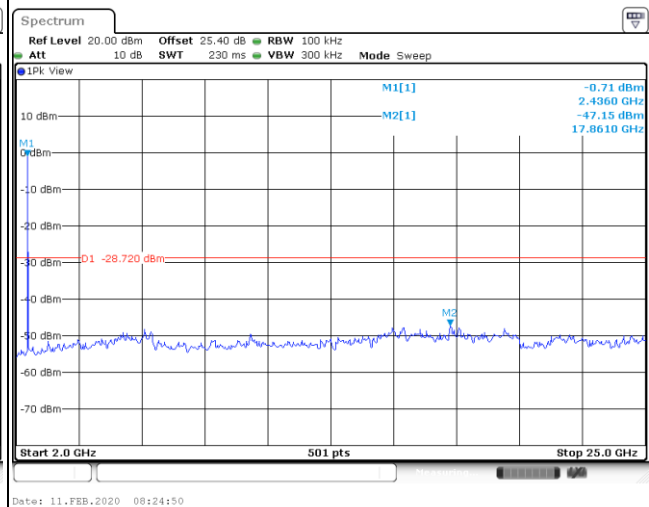


Mid Channel Plot

Spurious Emission 30MHz~3GHz

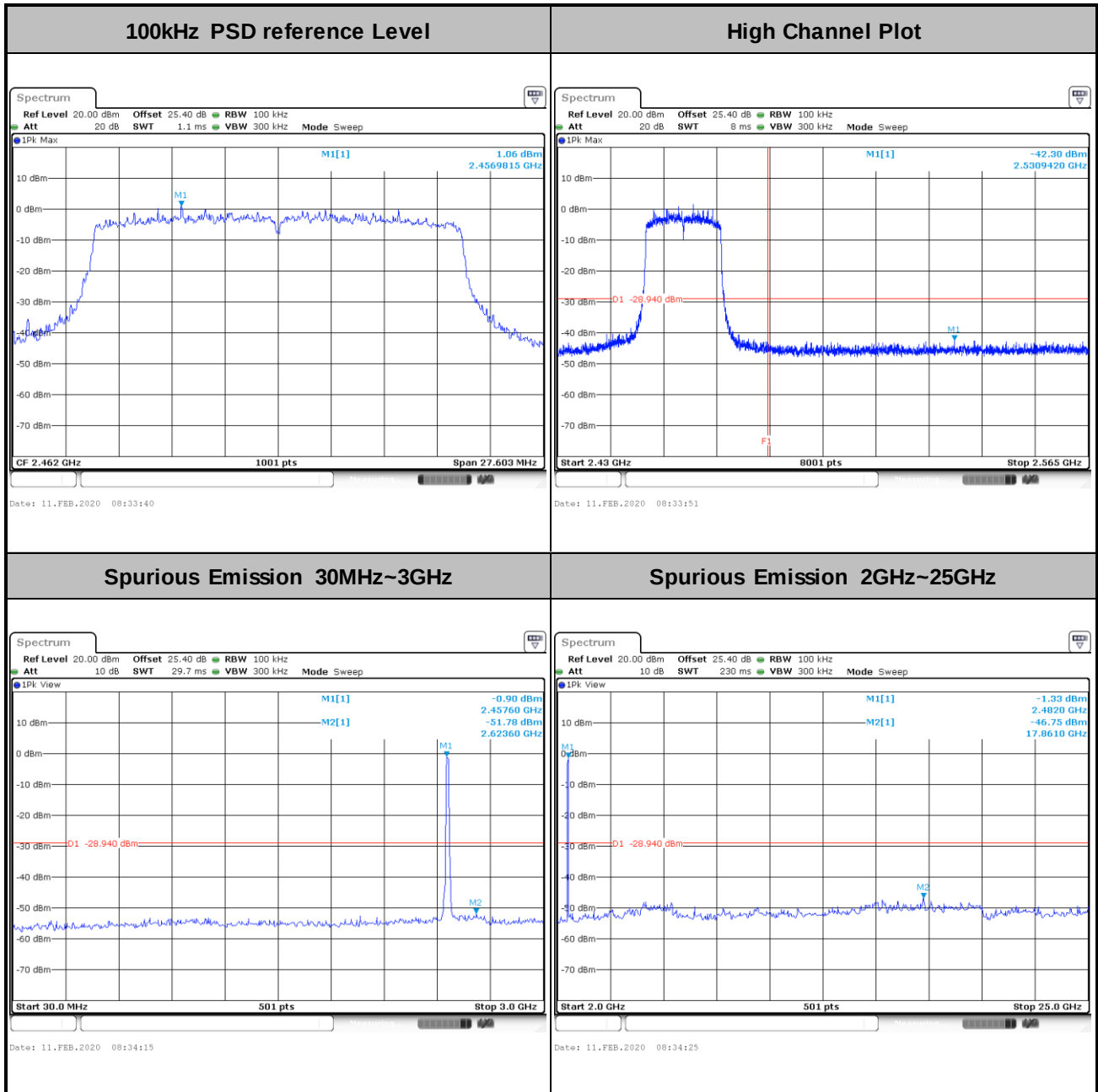


Spurious Emission 2GHz~25GHz



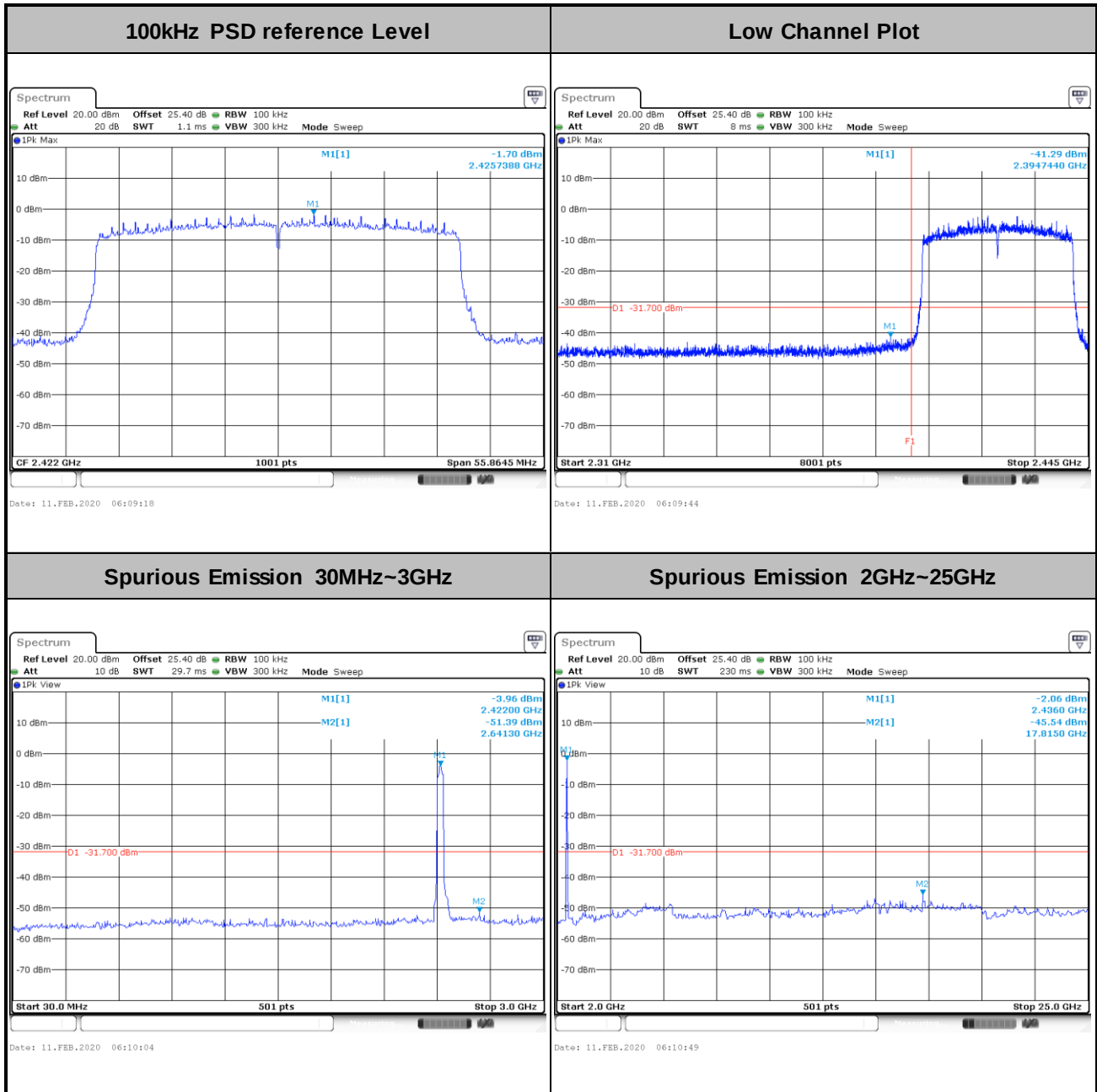


Test Mode :	802.11ax HE20	Test Channel :	11
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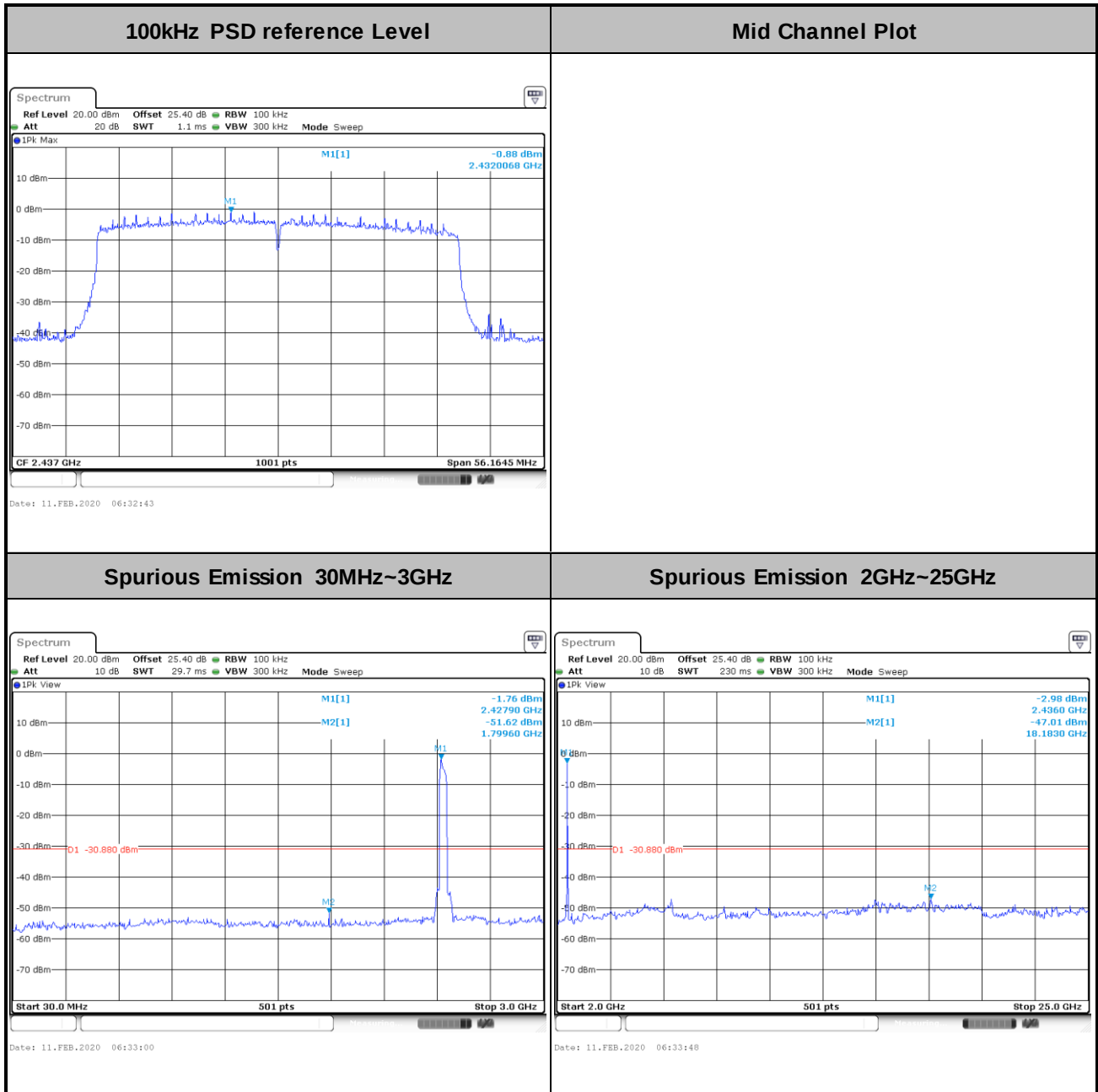


Test Mode :	802.11ax HE40	Test Channel :	03
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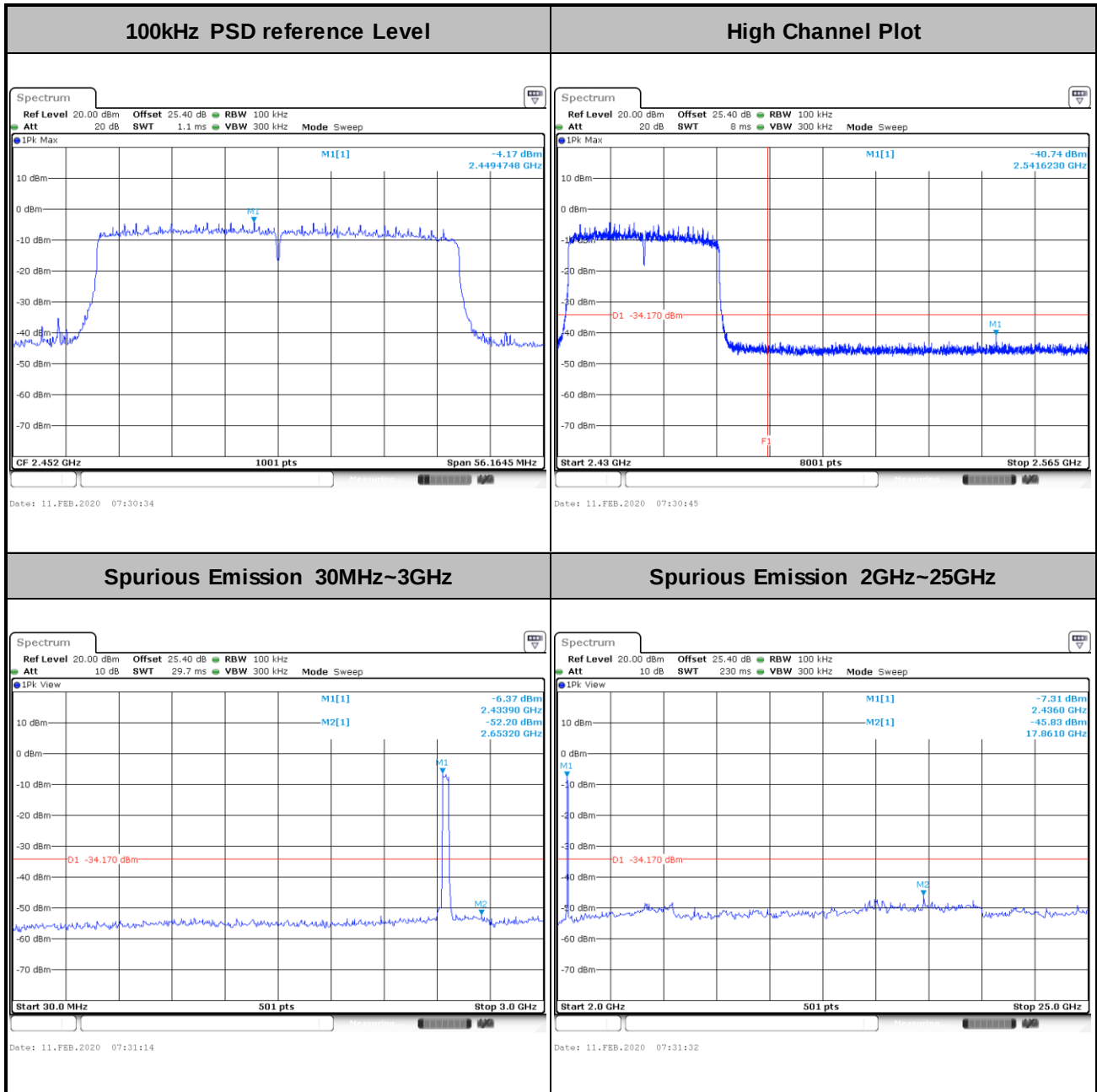


Test Mode :	802.11ax HE40	Test Channel :	06
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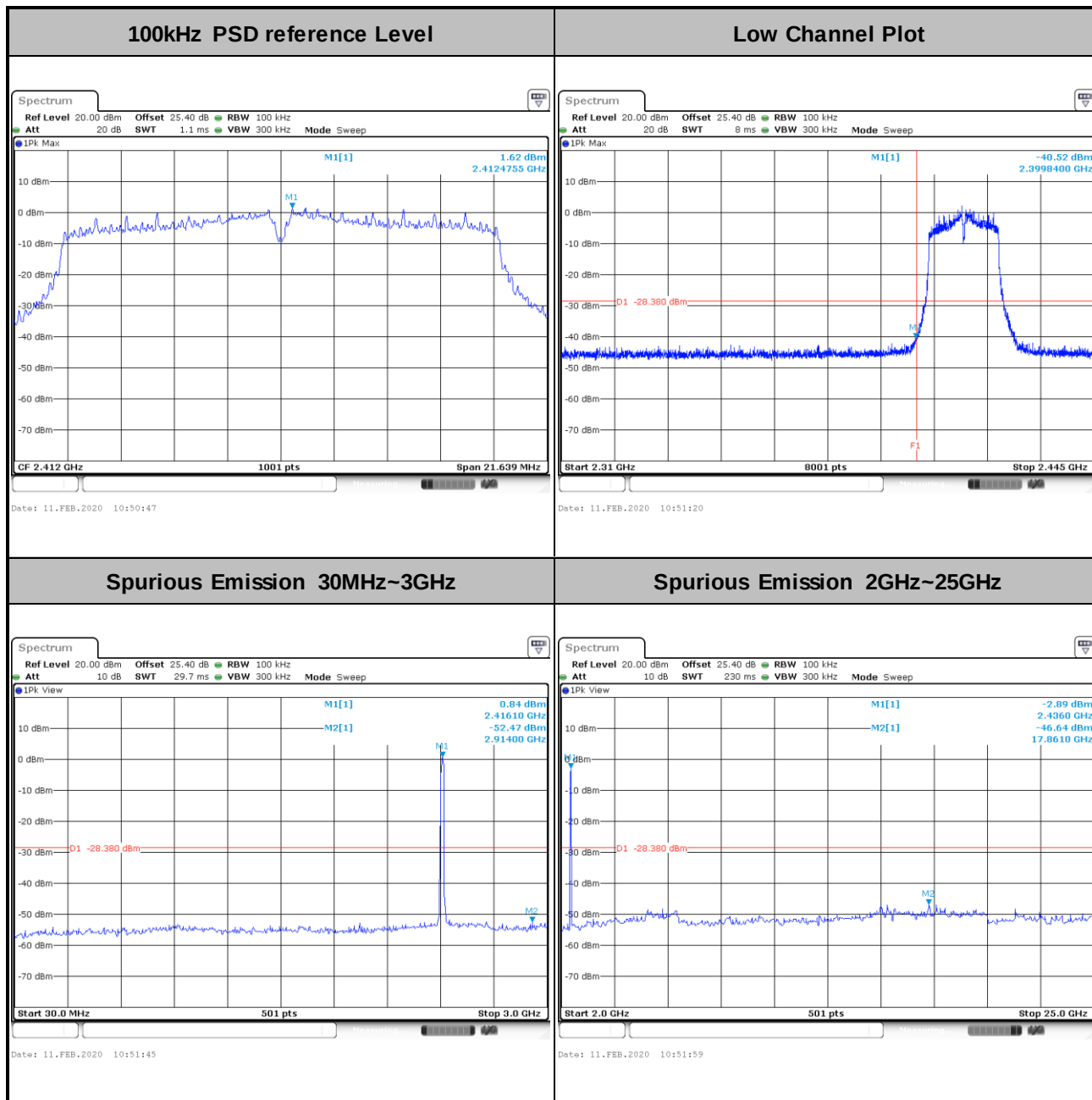
Test Mode :	802.11ax HE40	Test Channel :	09
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Number of TX = 2, Ant. 2 (Measured)

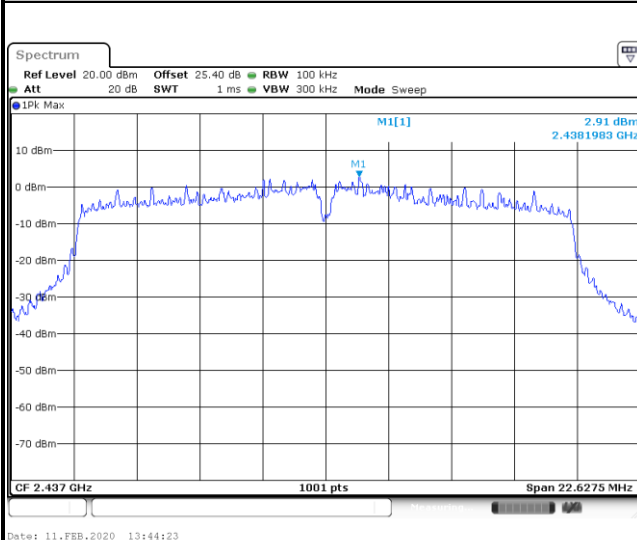
Test Mode :	802.11n HT20	Test Channel :	01
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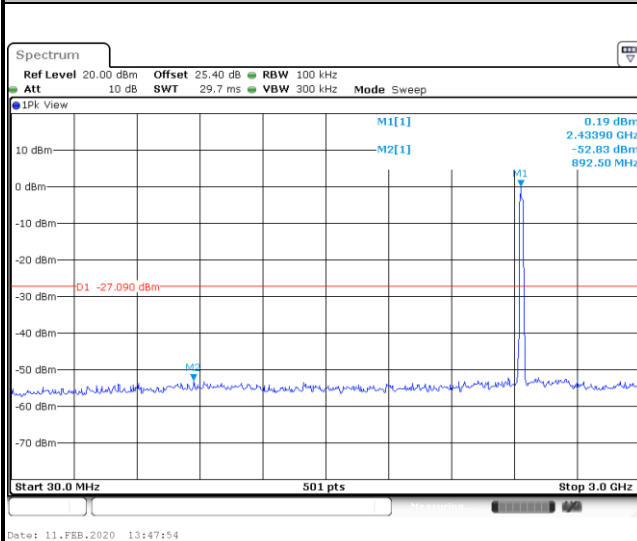
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

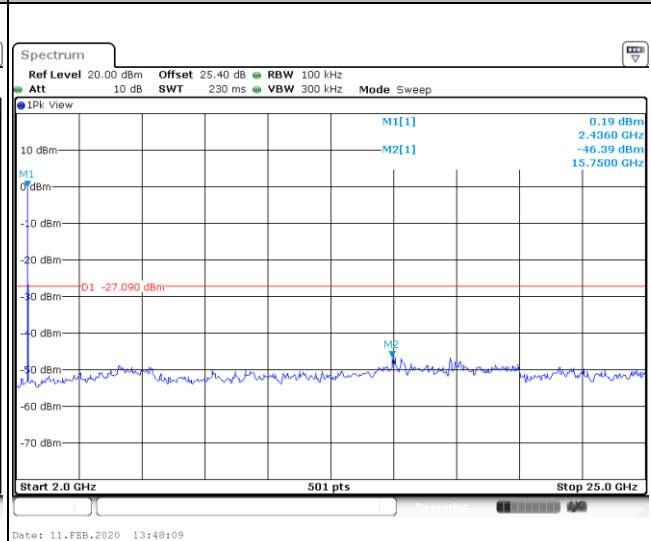


Mid Channel Plot

Spurious Emission 30MHz~3GHz



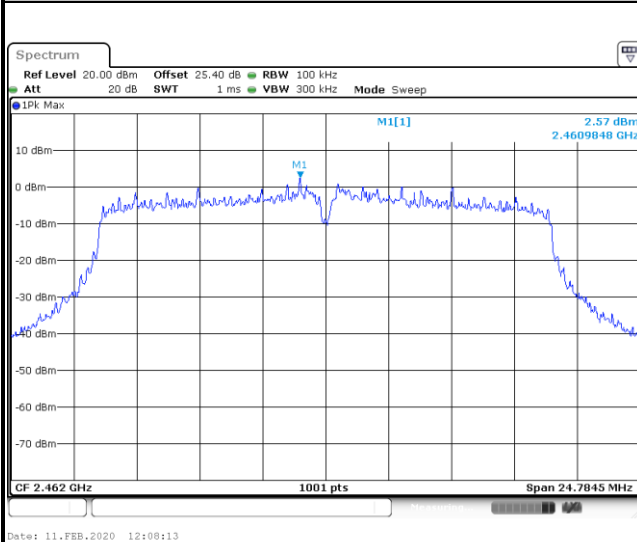
Spurious Emission 2GHz~25GHz



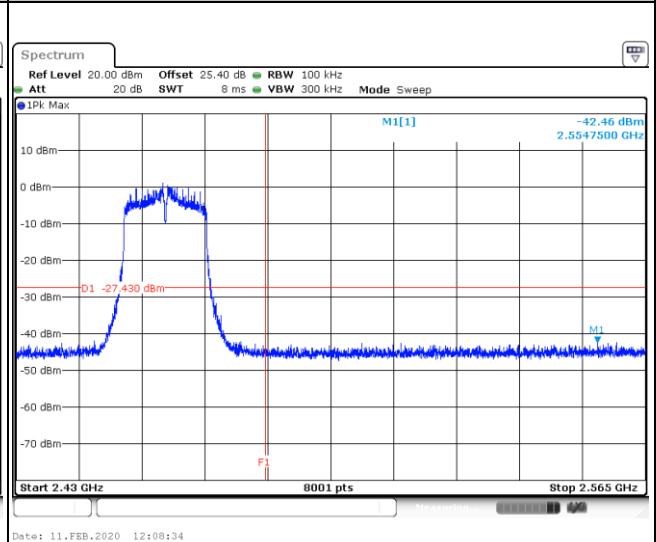


Test Mode :	802.11n HT20	Test Channel :	11
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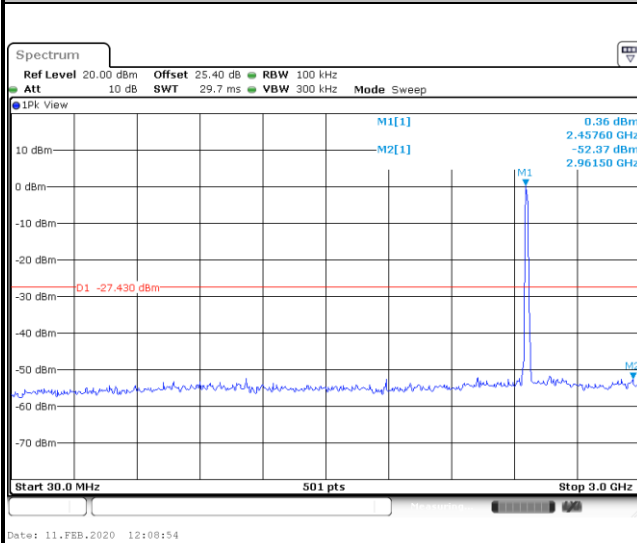
100kHz PSD reference Level



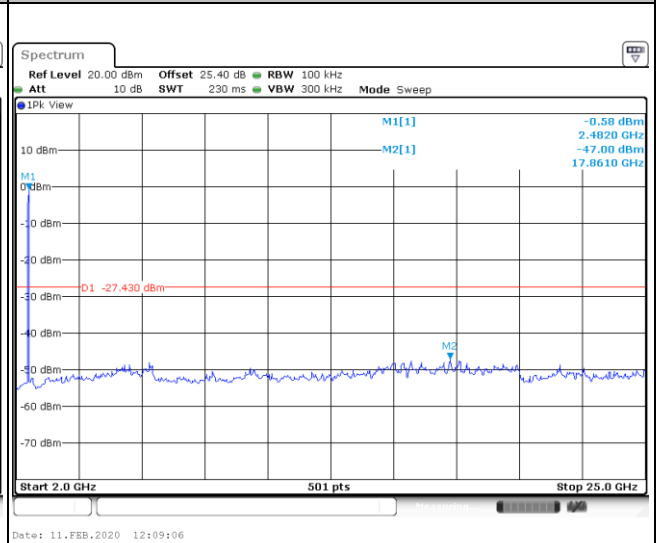
High Channel Plot



Spurious Emission 30MHz~3GHz

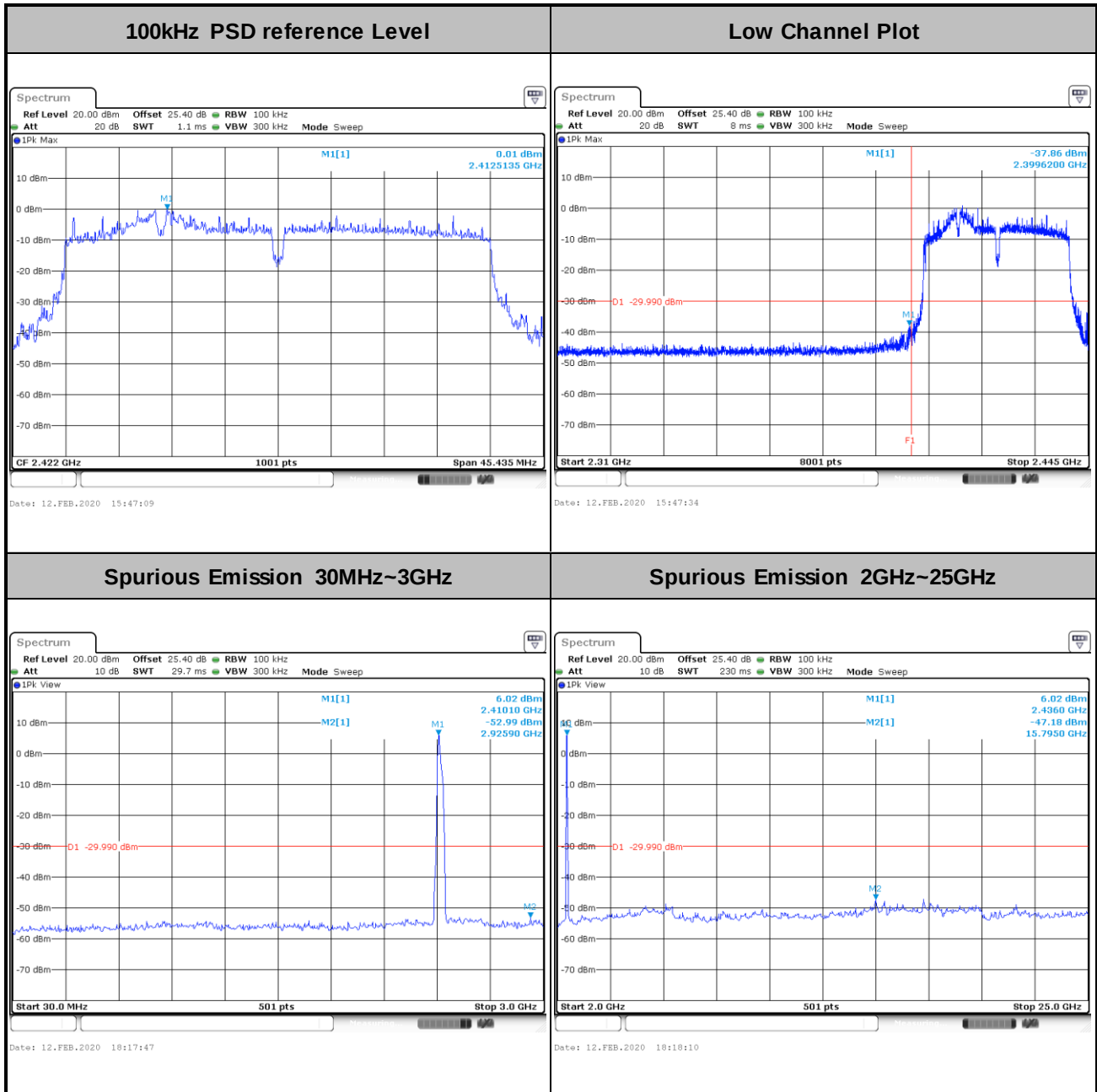


Spurious Emission 2GHz~25GHz





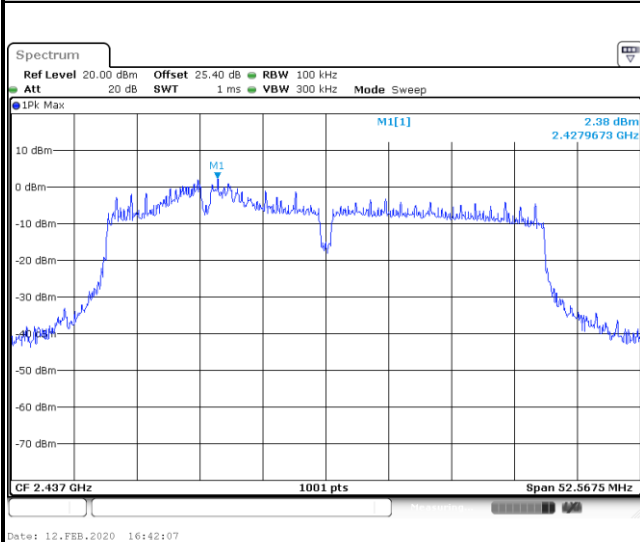
Test Mode :	802.11n HT40	Test Channel :	03
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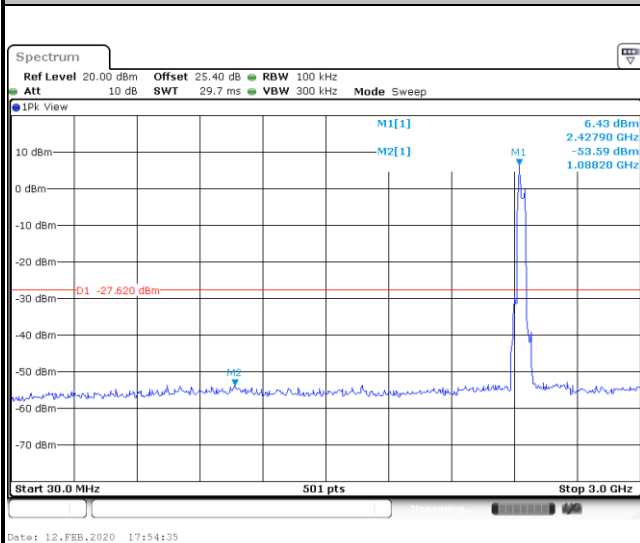
Test Mode :	802.11n HT40	Test Channel :	06
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100kHz PSD reference Level

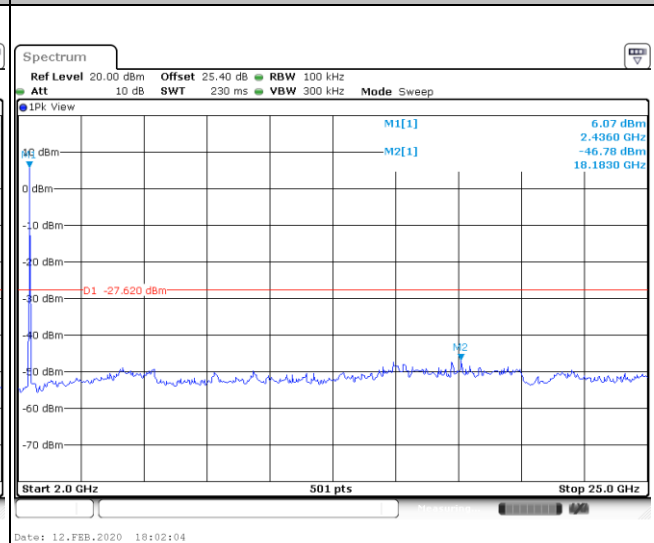


Mid Channel Plot

Spurious Emission 30MHz~3GHz

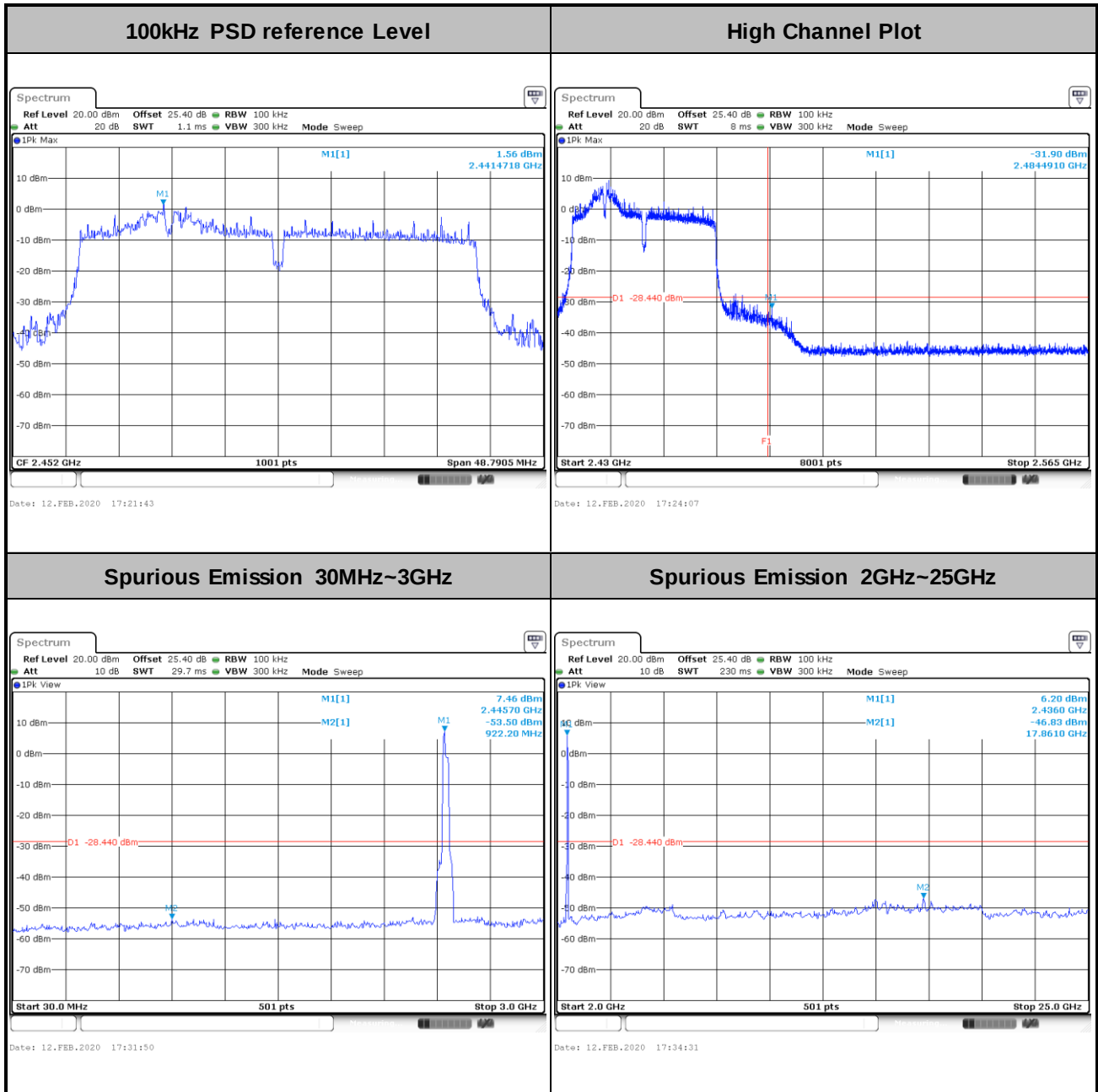


Spurious Emission 2GHz~25GHz



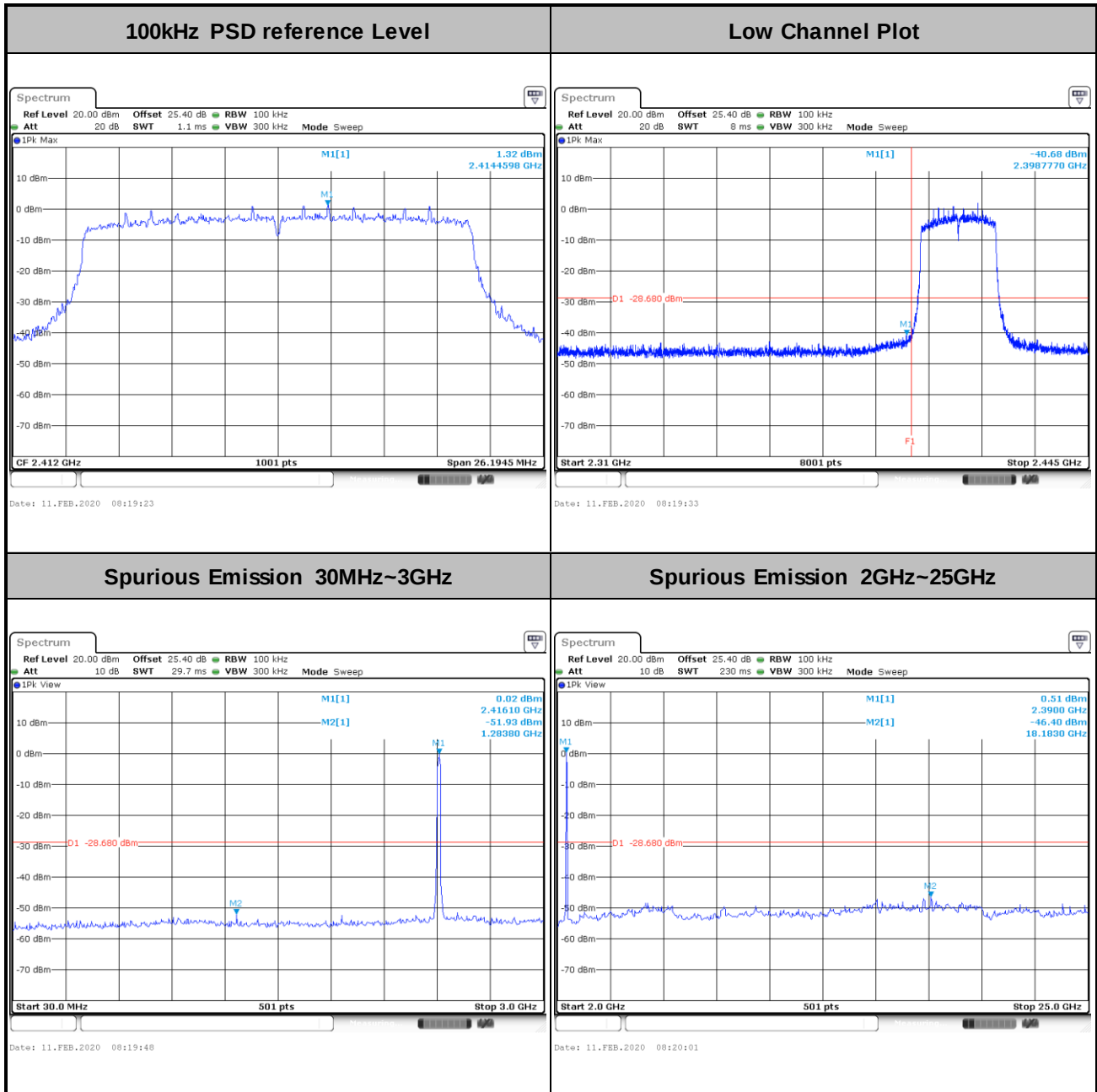


Test Mode :	802.11n HT40	Test Channel :	09
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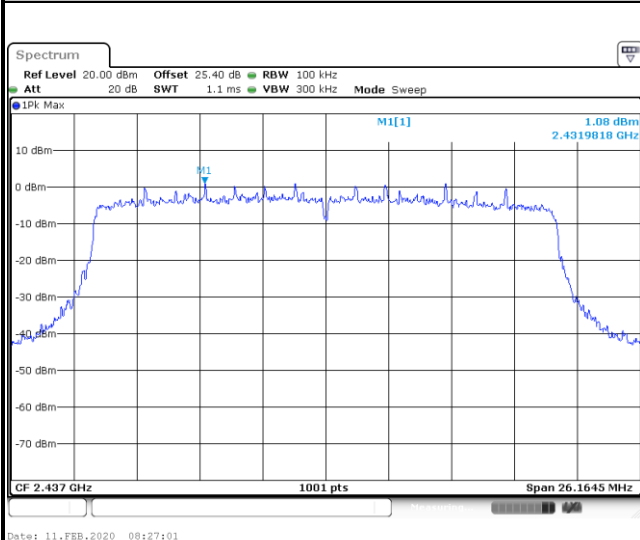
Test Mode :	802.11ax HE20	Test Channel :	01
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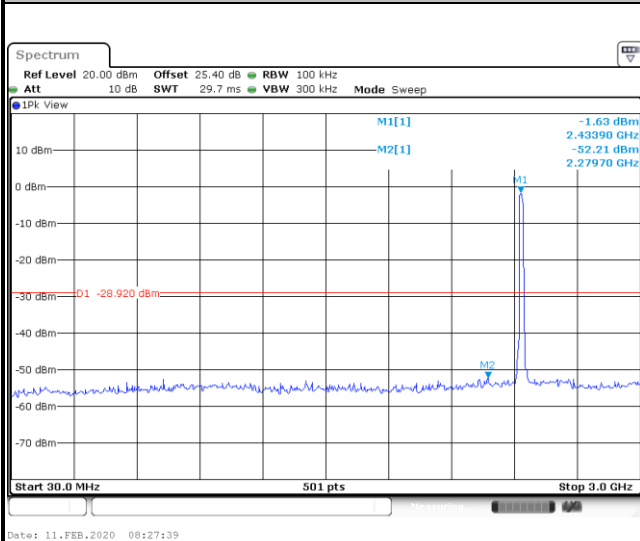
Test Mode :	802.11ax HE20	Test Channel :	06
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100kHz PSD reference Level

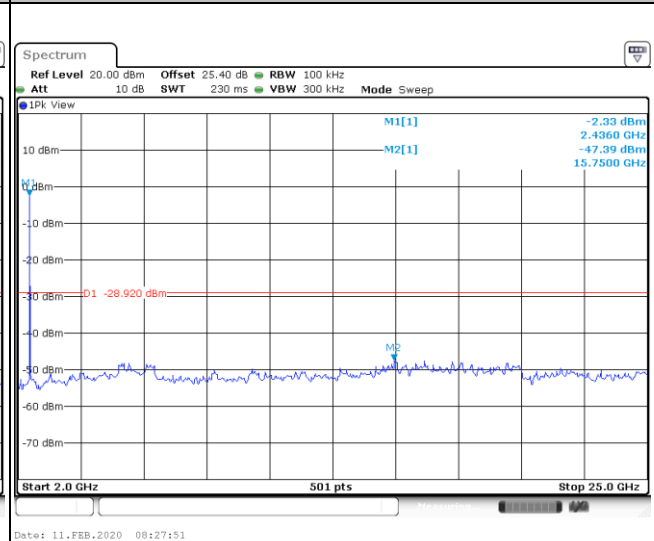


Mid Channel Plot

Spurious Emission 30MHz~3GHz

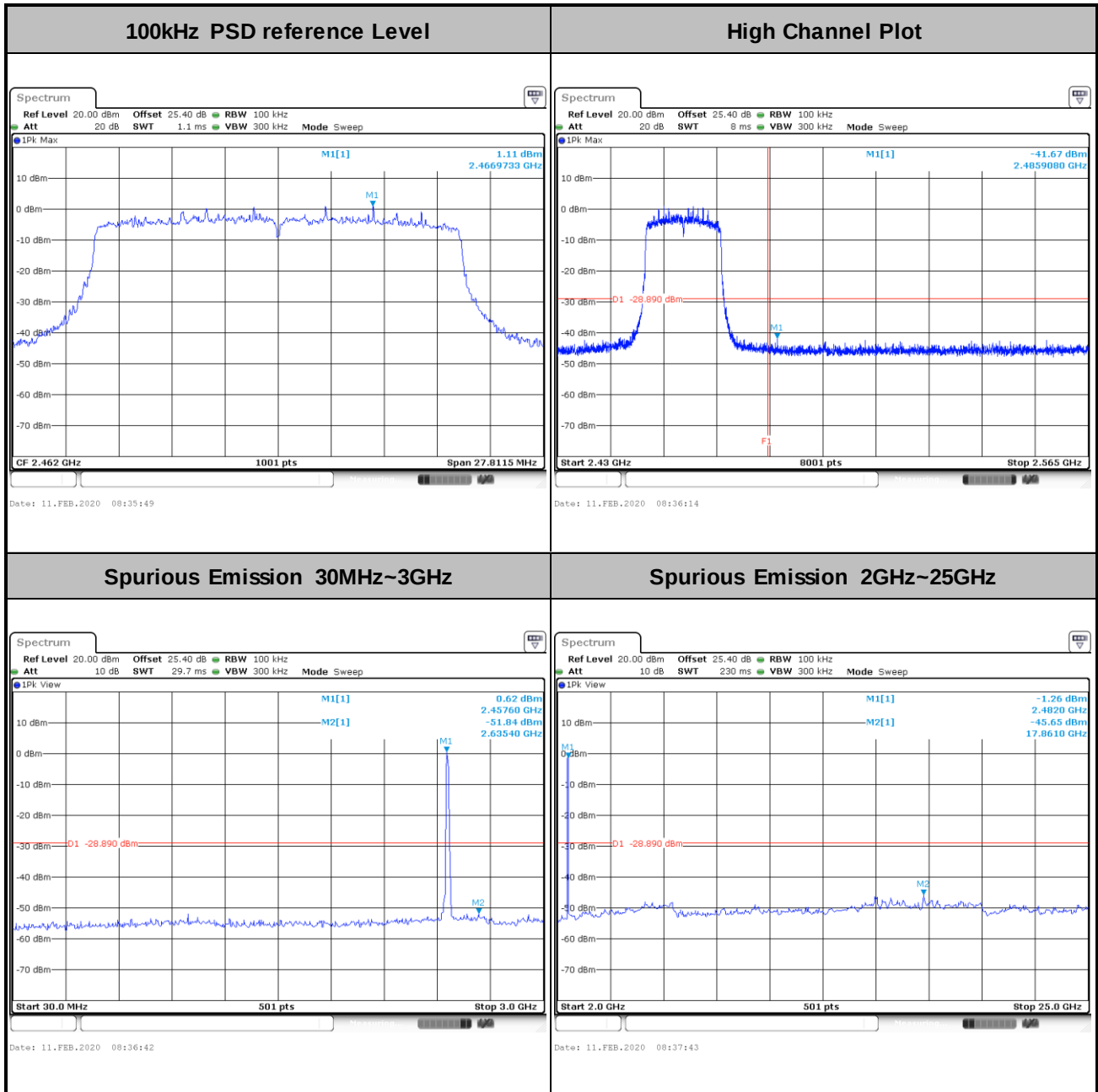


Spurious Emission 2GHz~25GHz



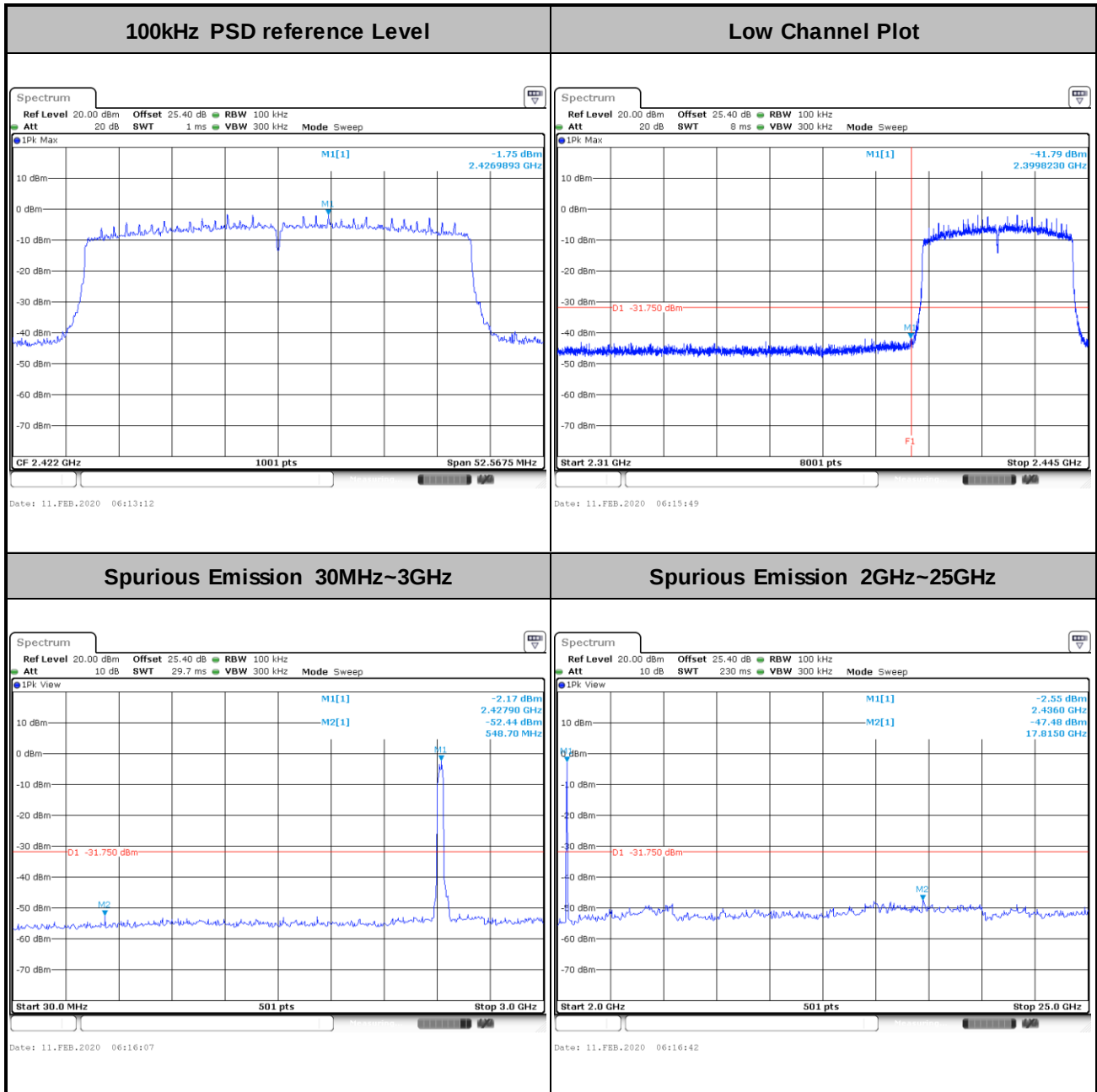


Test Mode :	802.11ax HE20	Test Channel :	11
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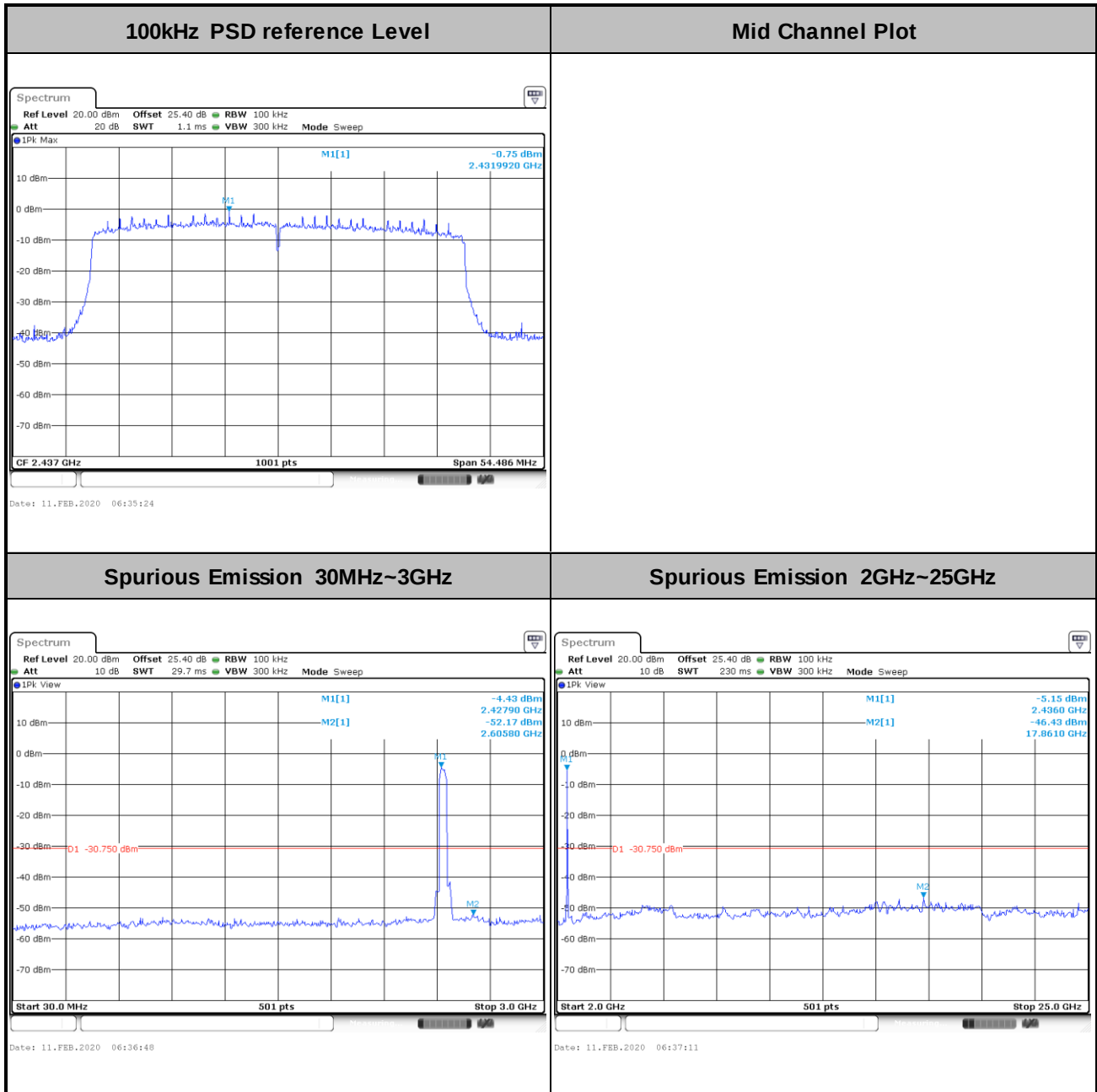


Test Mode :	802.11ax HE40	Test Channel :	03
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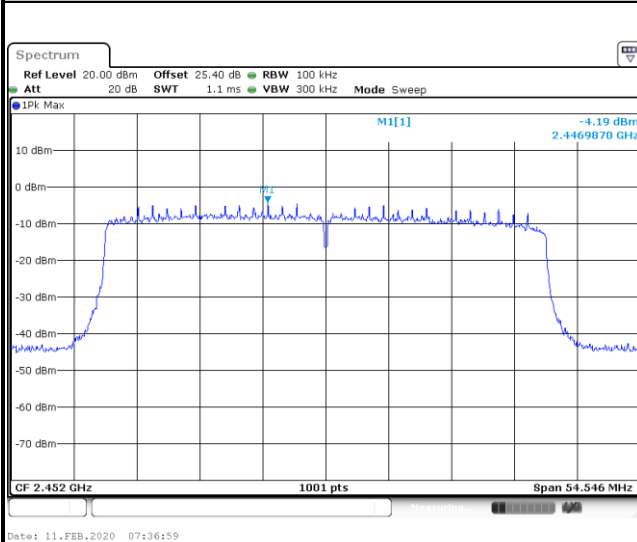
Test Mode :	802.11ax HE40	Test Channel :	06
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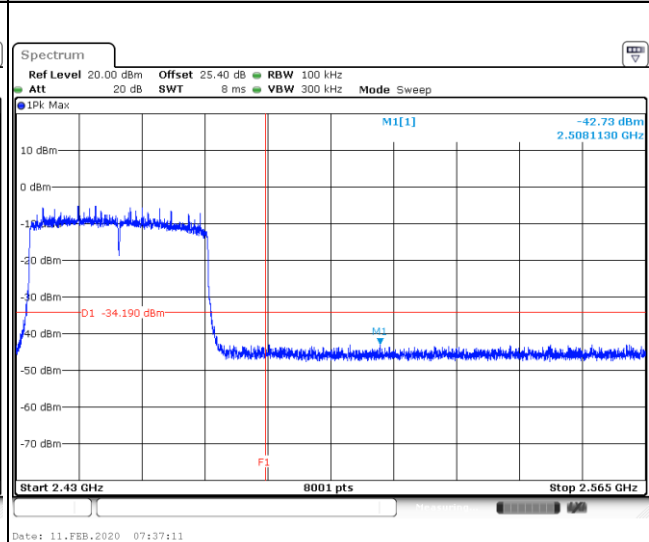


Test Mode :	802.11ax HE40	Test Channel :	09
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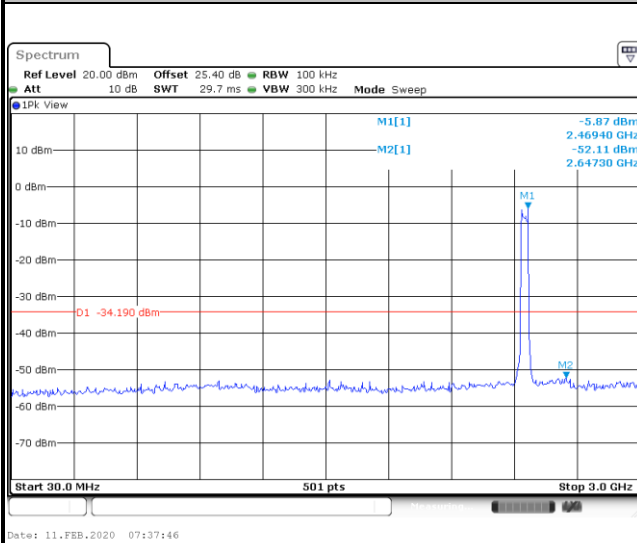
100kHz PSD reference Level



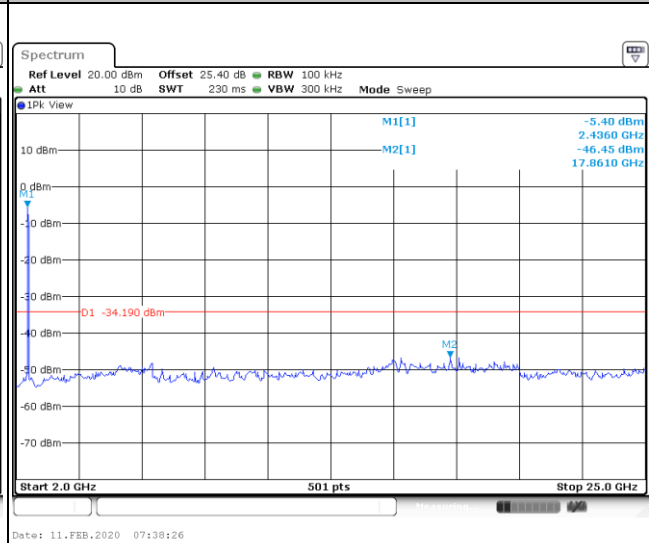
High Channel Plot



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

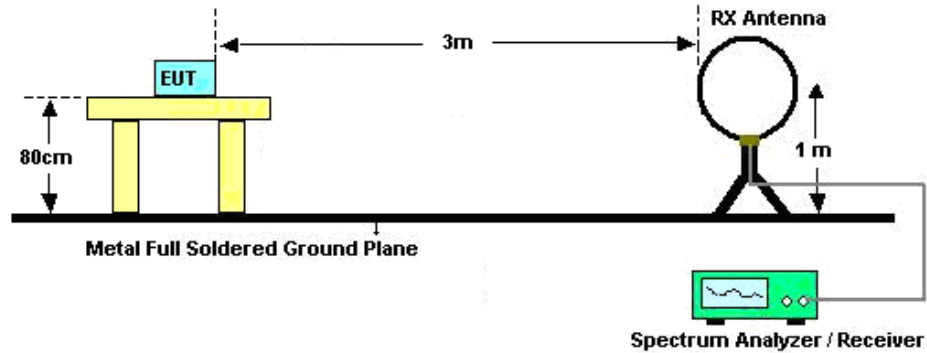
See list of measuring equipment of this test report.

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.

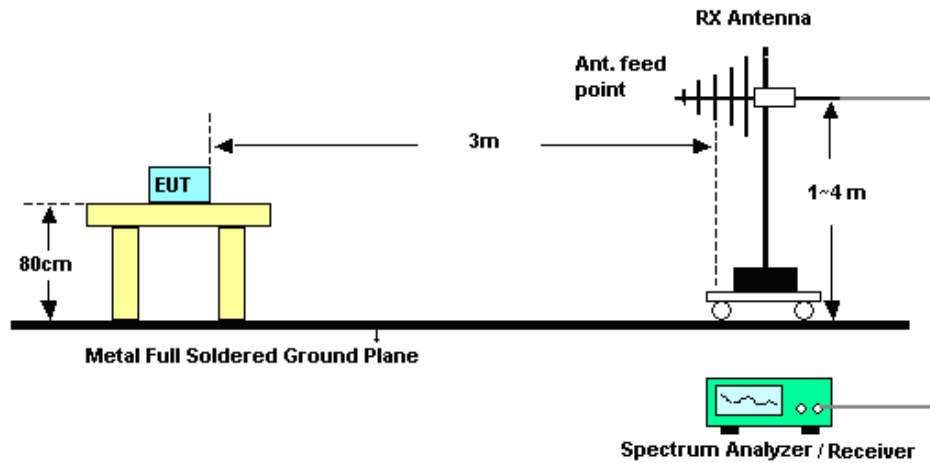
3.5.4 Test Setup

For radiated emissions below 30MHz



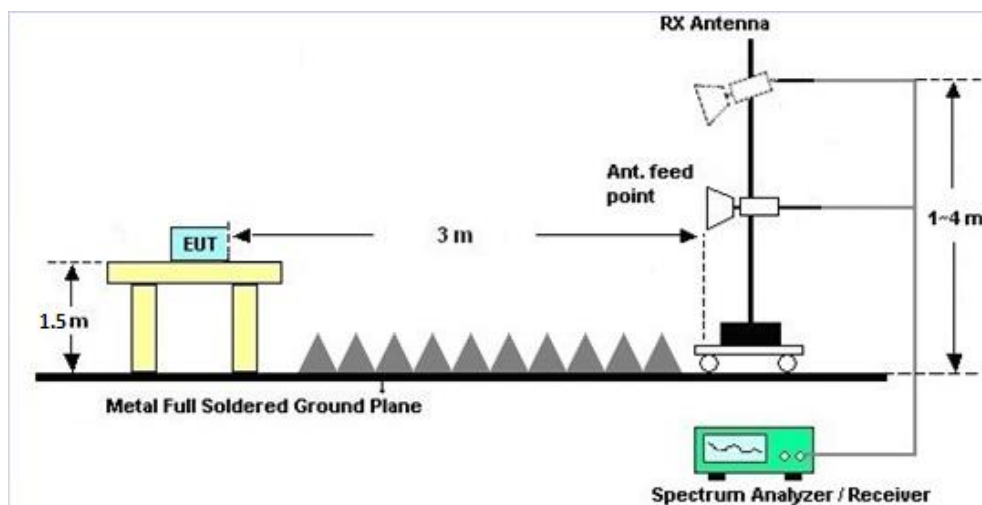
For radiated emissions from 30MHz to 1GHz

<CDD Mode>

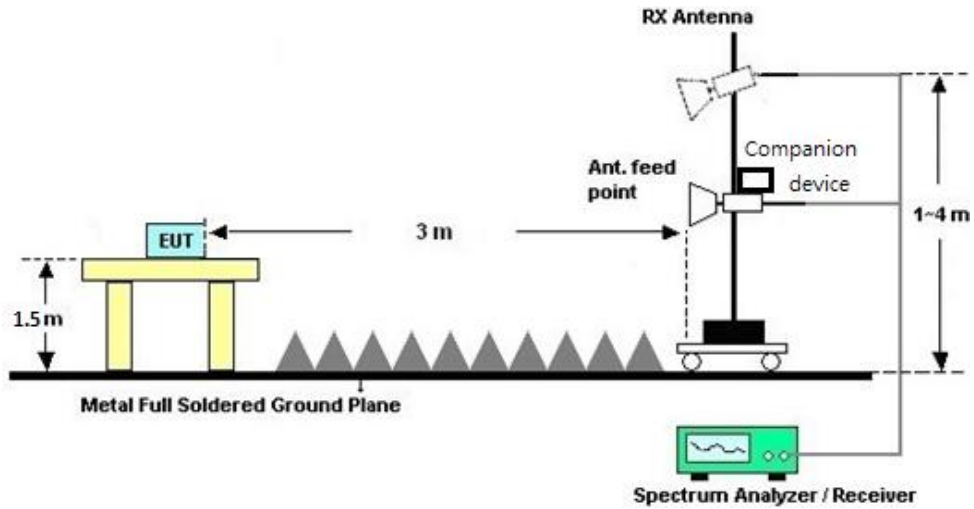


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>



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.

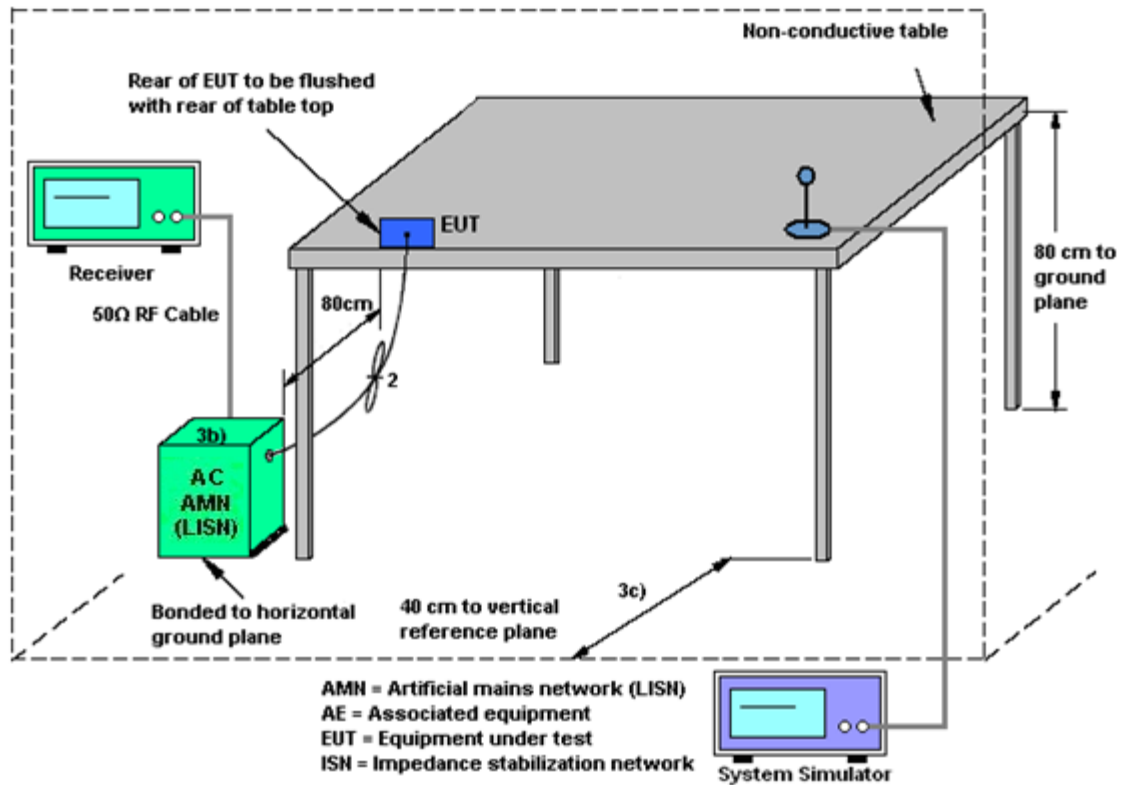
3.6.2 Measuring Instruments

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	1.93	1.85	1.93	4.90	0.00	0.00

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	1.93	1.85	4.90	4.90	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 04, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jan. 04, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Jan. 04, 2020	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Jan. 04, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 04, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jan. 04, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jan. 04, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 30, 2019	Dec. 30, 2019~Feb. 12, 2020	Dec. 29, 2020	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	Dec. 30, 2019~Feb. 12, 2020	Oct. 11, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-2114	1-18GHz	Jul. 31, 2019	Dec. 30, 2019~Feb. 12, 2020	Jul. 30, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	Dec. 30, 2019~Feb. 12, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Dec. 30, 2019~Feb. 12, 2020	Dec. 02, 2020	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Apr. 01, 2019	Dec. 30, 2019~Feb. 12, 2020	Mar. 31, 2020	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	Dec. 30, 2019~Feb. 12, 2020	Aug. 22, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Dec. 30, 2019~Feb. 12, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Mar. 08, 2019	Dec. 30, 2019~Feb. 12, 2020	Mar. 07, 2020	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 29, 2019	Dec. 30, 2019~Feb. 12, 2020	Apr. 28, 2020	Radiation (03CH15-HY)
Base Station	Anritsu	MT8820C	6201432817	GSM / GPRS / WCDMA / LTE FDD/TDD with 44)	Dec. 12, 2018	Dec. 30, 2019~Feb. 12, 2020	Dec. 11, 2020	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 30, 2019~Feb. 12, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 30, 2019~Feb. 12, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Dec. 30, 2019~Feb. 12, 2020	N/A	Radiation (03CH15-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 15, 2019	Dec. 30, 2019~ Feb. 12, 2020	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4 PE	30M-18G	Apr. 15, 2019	Dec. 30, 2019~ Feb. 12, 2020	Apr. 14, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY802430 /4	30M-18GHz	May 13, 2019	Dec. 30, 2019~ Feb. 12, 2020	May 12, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 26, 2019	Dec. 30, 2019~ Feb. 12, 2020	Feb. 25, 2020	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 26, 2019	Dec. 30, 2019~ Feb. 12, 2020	Feb. 25, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40S S	SN4	1.53G Low Pass	Jul. 04, 2019	Dec. 30, 2019~ Feb. 12, 2020	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Jul. 17, 2019	Dec. 30, 2019~ Feb. 12, 2020	Jul. 14, 2020	Radiation (03CH15-HY)
<CDD Mode>								
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Dec. 23, 2019~ Feb. 04, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Dec. 23, 2019~ Feb. 04, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Dec. 23, 2019~ Feb. 04, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067	N/A	Aug. 15, 2019	Dec. 23, 2019~ Feb. 04, 2020	Aug. 14, 2020	Conducted (TH05-HY)
<TXBF Mode>								
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Dec. 23, 2019~ Feb. 13, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Dec. 23, 2019~ Feb. 13, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Dec. 23, 2019~ Feb. 13, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067	N/A	Aug. 15, 2019	Dec. 23, 2019~ Feb. 13, 2020	Aug. 14, 2020	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
--	-----

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Derek Hsu / Tommy Lee	Temperature:	21~25	°C
Test Date:	2019/12/23~2020/02/13	Relative Humidity:	51~54	%

<CDD Mode>

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	13.04	13.09	8.07	8.07	0.50	Pass
11b	1Mbps	1	6	2437	13.04	13.09	8.05	8.05	0.50	Pass
11b	1Mbps	1	11	2462	13.14	13.09	8.05	8.05	0.50	Pass
11g	6Mbps	1	1	2412	16.38	16.33	15.90	15.70	0.50	Pass
11g	6Mbps	1	6	2437	16.38	16.38	16.02	16.00	0.50	Pass
11g	6Mbps	1	11	2462	16.38	16.38	16.26	16.04	0.50	Pass

2.4GHz Band MIMO										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
HT20	MCS0	2	1	2412	17.43	17.48	16.06	16.90	0.50	Pass
HT20	MCS0	2	6	2437	17.48	17.48	17.12	17.16	0.50	Pass
HT20	MCS0	2	11	2462	17.53	17.53	16.90	16.54	0.50	Pass
HT40	MCS0	2	3	2422	35.86	35.86	35.09	33.85	0.50	Pass
HT40	MCS0	2	6	2437	35.96	35.96	35.68	35.29	0.50	Pass
HT40	MCS0	2	9	2452	36.16	36.16	35.68	35.45	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	2	1	2412	Full	18.83	18.83	18.28	16.86	0.50	Pass
HE20	MCS0	2	6	2437	Full	18.83	18.88	18.54	18.42	0.50	Pass
HE20	MCS0	2	11	2462	Full	18.83	18.83	18.16	18.74	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.66	37.66	37.04	35.08	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.76	37.76	36.36	35.84	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.76	37.76	37.48	37.36	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	11.80	11.70		30.00	30.00	1.93	1.85	13.73	13.55	36.00	36.00	Pass
11b	1Mbps	1	6	2437	11.70	11.60		30.00	30.00	1.93	1.85	13.63	13.45	36.00	36.00	Pass
11b	1Mbps	1	11	2462	11.90	11.60		30.00	30.00	1.93	1.85	13.83	13.45	36.00	36.00	Pass
11g	6Mbps	1	1	2412	11.80	11.90		30.00	30.00	1.93	1.85	13.73	13.75	36.00	36.00	Pass
11g	6Mbps	1	6	2437	11.70	11.80		30.00	30.00	1.93	1.85	13.63	13.65	36.00	36.00	Pass
11g	6Mbps	1	11	2462	11.60	11.80		30.00	30.00	1.93	1.85	13.53	13.65	36.00	36.00	Pass
HT20	MCS0	1	1	2412	11.80	11.70		30.00	30.00	1.93	1.85	13.73	13.55	36.00	36.00	Pass
HT20	MCS0	1	6	2437	11.70	11.60		30.00	30.00	1.93	1.85	13.63	13.45	36.00	36.00	Pass
HT20	MCS0	1	11	2462	11.70	11.60		30.00	30.00	1.93	1.85	13.63	13.45	36.00	36.00	Pass
HT40	MCS0	1	3	2422	11.50	11.80		30.00	30.00	1.93	1.85	13.43	13.65	36.00	36.00	Pass
HT40	MCS0	1	6	2437	11.50	11.70		30.00	30.00	1.93	1.85	13.43	13.55	36.00	36.00	Pass
HT40	MCS0	1	9	2452	11.40	11.10		30.00	30.00	1.93	1.85	13.33	12.95	36.00	36.00	Pass

2.4GHz Band MIMO																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	1	2412	11.50	12.20	14.87	30.00		1.93		16.80		36.00		Pass
HT20	MCS0	2	6	2437	11.50	12.00	14.77	30.00		1.93		16.70		36.00		Pass
HT20	MCS0	2	11	2462	11.40	12.10	14.77	30.00		1.93		16.70		36.00		Pass
HT40	MCS0	2	3	2422	11.60	12.00	14.81	30.00		1.93		16.74		36.00		Pass
HT40	MCS0	2	6	2437	11.60	11.90	14.76	30.00		1.93		16.69		36.00		Pass
HT40	MCS0	2	9	2452	11.40	11.50	14.46	30.00		1.93		16.39		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	1	1	2412	Full	11.60	11.80		30.00	30.00	1.93	1.85	13.53	13.65	36.00	36.00	Pass
HE20	MCS0	1	6	2437	Full	11.50	11.70		30.00	30.00	1.93	1.85	13.43	13.55	36.00	36.00	Pass
HE20	MCS0	1	11	2462	Full	11.70	11.80		30.00	30.00	1.93	1.85	13.63	13.65	36.00	36.00	Pass
HE40	MCS0	1	3	2422	Full	10.90	11.00		30.00	30.00	1.93	1.85	12.83	12.85	36.00	36.00	Pass
HE40	MCS0	1	6	2437	Full	11.50	11.70		30.00	30.00	1.93	1.85	13.43	13.55	36.00	36.00	Pass
HE40	MCS0	1	9	2452	Full	10.20	10.40		30.00	30.00	1.93	1.85	12.13	12.25	36.00	36.00	Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	11.70	11.90	14.81	30.00		1.93		16.74		36.00		Pass
HE20	MCS0	2	6	2437	Full	11.60	11.80	14.71	30.00		1.93		16.64		36.00		Pass
HE20	MCS0	2	11	2462	Full	11.70	12.20	14.97	30.00		1.93		16.90		36.00		Pass
HE40	MCS0	2	3	2422	Full	11.00	11.10	14.06	30.00		1.93		15.99		36.00		Pass
HE40	MCS0	2	6	2437	Full	11.60	11.90	14.76	30.00		1.93		16.69		36.00		Pass
HE40	MCS0	2	9	2452	Full	10.40	10.50	13.46	30.00		1.93		15.39		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-12.06	-13.49		1.93	1.85	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-12.58	-12.26		1.93	1.85	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-12.10	-13.29		1.93	1.85	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-14.61	-14.84		1.93	1.85	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-14.69	-15.85		1.93	1.85	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-15.27	-14.89		1.93	1.85	8.00	8.00	Pass

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	1	2412	-13.53	-13.07	-10.06	4.90		8.00		Pass
HT20	MCS0	2	6	2437	-13.76	-13.85	-10.75	4.90		8.00		Pass
HT20	MCS0	2	11	2462	-13.94	-14.18	-10.93	4.90		8.00		Pass
HT40	MCS0	2	3	2422	-16.13	-15.43	-12.42	4.90		8.00		Pass
HT40	MCS0	2	6	2437	-15.95	-16.28	-12.94	4.90		8.00		Pass
HT40	MCS0	2	9	2452	-16.14	-16.85	-13.13	4.90		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-14.83	-13.71	-10.70	4.90		8.00		Pass
HE20	MCS0	2	6	2437	Full	-14.68	-15.03	-11.67	4.90		8.00		Pass
HE20	MCS0	2	11	2462	Full	-14.92	-13.39	-10.38	4.90		8.00		Pass
HE40	MCS0	2	3	2422	Full	-18.58	-17.31	-14.30	4.90		8.00		Pass
HE40	MCS0	2	6	2437	Full	-17.57	-16.95	-13.94	4.90		8.00		Pass
HE40	MCS0	2	9	2452	Full	-19.24	-18.14	-15.13	4.90		8.00		Pass

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

<TXBF Mode>

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
HT20	MCS0	2	1	2412	17.43	17.43	16.26	14.43	0.50	Pass
HT20	MCS0	2	6	2437	17.48	17.53	15.11	15.09	0.50	Pass
HT20	MCS0	2	11	2462	17.53	17.48	15.09	16.52	0.50	Pass
HT40	MCS0	2	3	2422	36.56	35.96	30.09	30.29	0.50	Pass
HT40	MCS0	2	6	2437	36.36	36.16	32.57	35.05	0.50	Pass
HT40	MCS0	2	9	2452	36.46	36.76	32.57	32.53	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	1	1	2412	Full	18.83	18.83	18.48	17.46	0.50	Pass
HE20	MCS0	1	6	2437	Full	18.83	18.88	18.14	17.44	0.50	Pass
HE20	MCS0	1	11	2462	Full	18.83	18.83	18.40	18.54	0.50	Pass
HE20	MCS0	1	3	2422	Full	37.56	37.56	37.24	35.05	0.50	Pass
HE40	MCS0	1	6	2437	Full	37.76	37.76	37.44	36.32	0.50	Pass
HE40	MCS0	1	9	2452	Full	37.76	37.86	37.44	36.36	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	1	2412	11.60	11.60	14.61	30.00		4.90		19.51		36.00		Pass
HT20	MCS0	2	6	2437	11.50	11.50	14.51	30.00		4.90		19.41		36.00		Pass
HT20	MCS0	2	11	2462	11.50	11.60	14.56	30.00		4.90		19.46		36.00		Pass
HT40	MCS0	2	3	2422	11.70	12.00	14.86	30.00		4.90		19.76		36.00		Pass
HT40	MCS0	2	6	2437	11.70	12.00	14.86	30.00		4.90		19.76		36.00		Pass
HT40	MCS0	2	9	2452	11.80	12.00	14.91	30.00		4.90		19.81		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	11.90	11.70	14.81	30.00		4.90		19.71		36.00		Pass
HE20	MCS0	2	6	2437	Full	11.80	11.50	14.66	30.00		4.90		19.56		36.00		Pass
HE20	MCS0	2	11	2462	Full	11.70	11.50	14.61	30.00		4.90		19.51		36.00		Pass
HE40	MCS0	2	3	2422	Full	12.00	11.80	14.91	30.00		4.90		19.81		36.00		Pass
HE40	MCS0	2	6	2437	Full	11.80	11.70	14.76	30.00		4.90		19.66		36.00		Pass
HE40	MCS0	2	9	2452	Full	10.00	9.50	12.77	30.00		4.90		17.67		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HT20	MCS0	2	1	2412	-13.19	-12.47	-9.46	4.90		8.00		Pass
HT20	MCS0	2	6	2437	-13.21	-13.01	-10.00	4.90		8.00		Pass
HT20	MCS0	2	11	2462	-13.23	-12.87	-9.86	4.90		8.00		Pass
HT40	MCS0	2	3	2422	-12.47	-13.34	-9.46	4.90		8.00		Pass
HT40	MCS0	2	6	2437	-13.06	-15.08	-10.05	4.90		8.00		Pass
HT40	MCS0	2	9	2452	-14.47	-13.06	-10.05	4.90		8.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-13.97	-13.38	-10.37	4.90		8.00		Pass
HE20	MCS0	2	6	2437	Full	-13.29	-13.39	-10.28	4.90		8.00		Pass
HE20	MCS0	2	11	2462	Full	-14.18	-13.64	-10.63	4.90		8.00		Pass
HE40	MCS0	2	3	2422	Full	-16.63	-17.08	-13.62	4.90		8.00		Pass
HE40	MCS0	2	6	2437	Full	-17.00	-15.57	-12.56	4.90		8.00		Pass
HE40	MCS0	2	9	2452	Full	-19.17	-20.06	-16.16	4.90		8.00		Pass

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



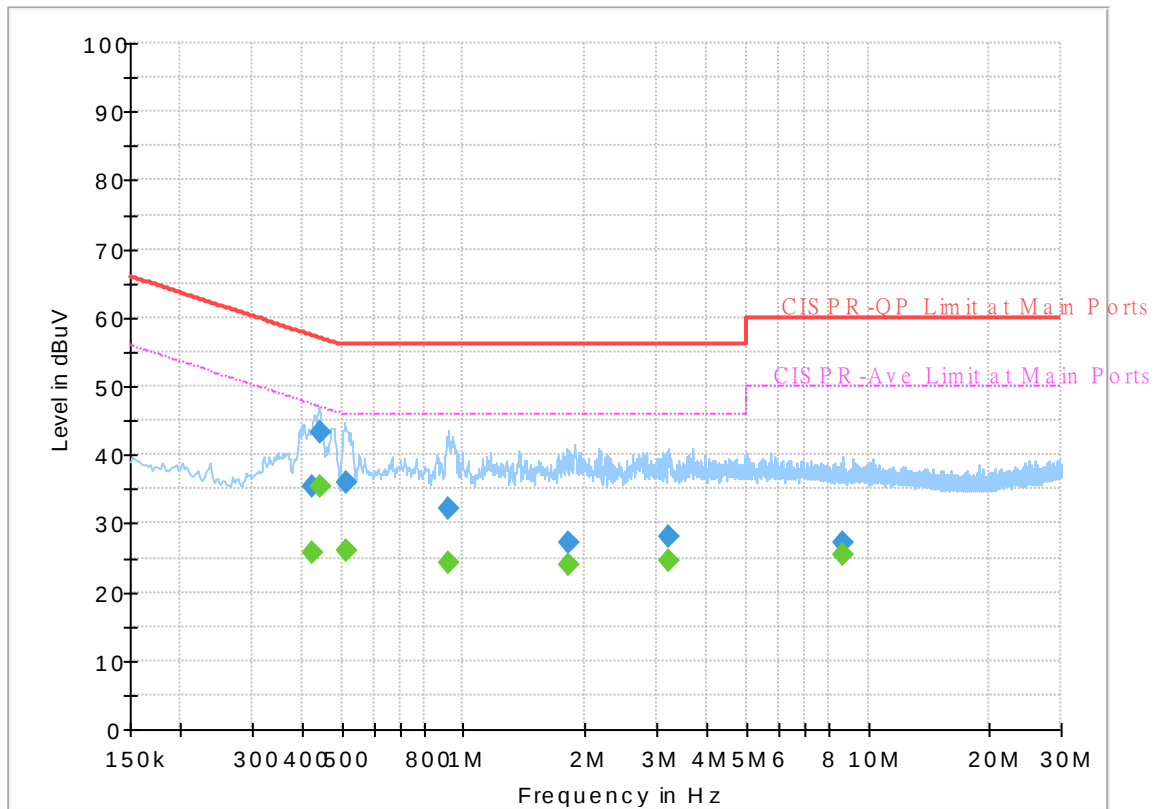
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	22~25°C
		Relative Humidity :	42~51%

EUT Information

Report NO : 900422-06
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



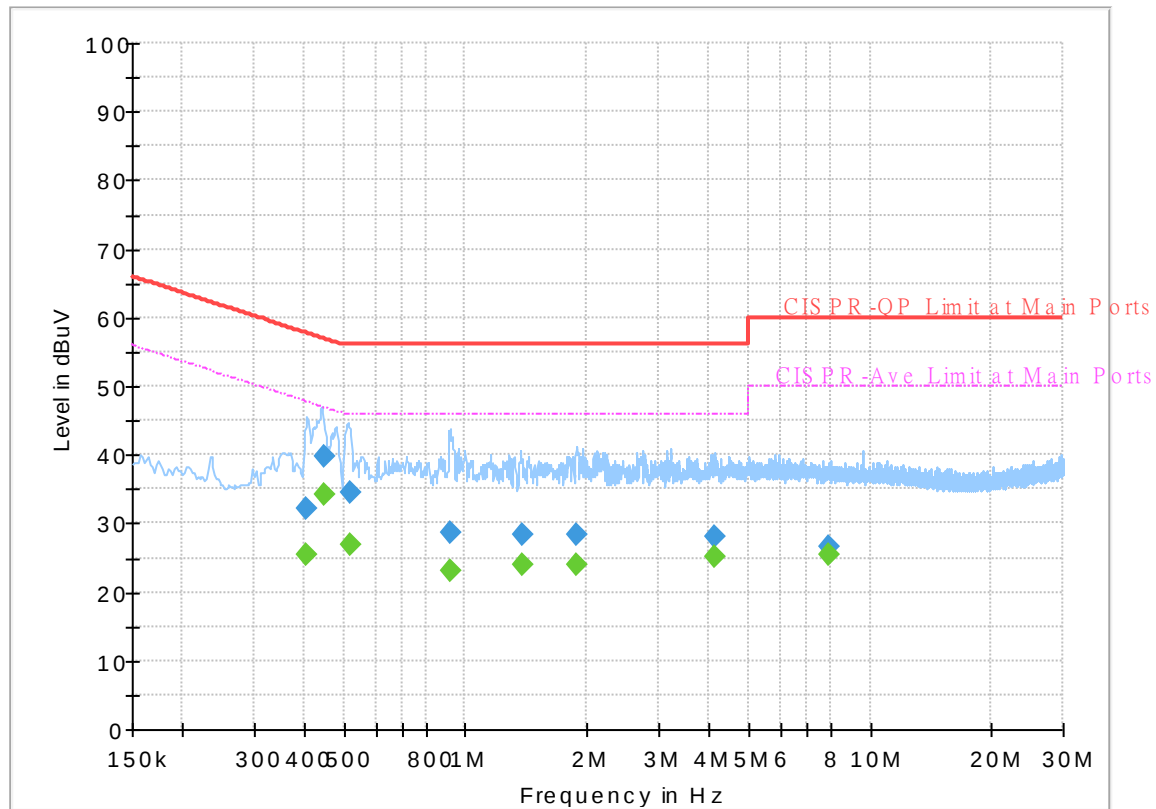
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.422250	---	25.87	47.40	21.53	L1	OFF	19.5
0.422250	35.36	---	57.40	22.04	L1	OFF	19.5
0.441960	---	35.31	47.03	11.72	L1	OFF	19.5
0.441960	43.39	---	57.03	13.64	L1	OFF	19.5
0.512250	---	26.07	46.00	19.93	L1	OFF	19.5
0.512250	35.86	---	56.00	20.14	L1	OFF	19.5
0.921120	---	24.32	46.00	21.68	L1	OFF	19.6
0.921120	32.03	---	56.00	23.97	L1	OFF	19.6
1.824000	---	23.91	46.00	22.09	L1	OFF	19.6
1.824000	27.15	---	56.00	28.85	L1	OFF	19.6
3.203250	---	24.61	46.00	21.39	L1	OFF	19.7
3.203250	28.19	---	56.00	27.81	L1	OFF	19.7
8.636460	---	25.51	50.00	24.49	L1	OFF	20.0
8.636460	27.11	---	60.00	32.89	L1	OFF	20.0

EUT Information

Report NO : 900422-06
 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)
0.402000	---	25.40	47.81	22.41	N	OFF	19.6
0.402000	32.13	---	57.81	25.68	N	OFF	19.6
0.445740	---	34.32	46.95	12.63	N	OFF	19.6
0.445740	39.76	---	56.95	17.19	N	OFF	19.6
0.516750	---	26.96	46.00	19.04	N	OFF	19.6
0.516750	34.65	---	56.00	21.35	N	OFF	19.6
0.913200	---	23.00	46.00	23.00	N	OFF	19.6
0.913200	28.59	---	56.00	27.41	N	OFF	19.6
1.376250	---	24.07	46.00	21.93	N	OFF	19.6
1.376250	28.33	---	56.00	27.67	N	OFF	19.6
1.886910	---	23.84	46.00	22.16	N	OFF	19.6
1.886910	28.42	---	56.00	27.58	N	OFF	19.6
4.123500	---	25.03	46.00	20.97	N	OFF	19.7
4.123500	27.93	---	56.00	28.07	N	OFF	19.7
7.878750	---	25.39	50.00	24.61	N	OFF	20.0
7.878750	26.61	---	60.00	33.39	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Li , Karl Hou , Bigshow Wang	Temperature :	24.2~24.6°C
		Relative Humidity :	55~64%

<CDD Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2326.065	55.05	-18.95	74	42.11	28.05	16.07	31.18	100	226	P	H
		2335.62	43.52	-10.48	54	30.57	28.03	16.09	31.17	100	226	A	H
	*	2412	103.21	-	-	90.48	27.68	16.18	31.13	100	226	P	H
	*	2412	100.15	-	-	87.42	27.68	16.18	31.13	100	226	A	H
		2343.6	54.01	-19.99	74	41.07	28.01	16.1	31.17	100	279	P	V
		2332.05	43.54	-10.46	54	30.59	28.04	16.08	31.17	100	279	A	V
	*	2412	103.95	-	-	91.22	27.68	16.18	31.13	100	279	P	V
	*	2412	100.81	-	-	88.08	27.68	16.18	31.13	100	279	A	V
802.11b CH 06 2437MHz		2316.16	54.73	-19.27	74	41.78	28.07	16.06	31.18	100	219	P	H
		2335.62	43.63	-10.37	54	30.68	28.03	16.09	31.17	100	219	A	H
	*	2437	103.48	-	-	90.76	27.63	16.21	31.12	100	219	P	H
	*	2437	100.23	-	-	87.51	27.63	16.21	31.12	100	219	A	H
		2485.65	53.67	-20.33	74	40.98	27.53	16.26	31.1	100	219	P	H
		2483.55	43.46	-10.54	54	30.78	27.53	16.25	31.1	100	219	A	H
		2344.58	54.67	-19.33	74	41.73	28.01	16.1	31.17	100	282	P	V
		2332.12	43.62	-10.38	54	30.67	28.04	16.08	31.17	100	282	A	V
	*	2437	104.36	-	-	91.64	27.63	16.21	31.12	100	282	P	V
	*	2437	101.13	-	-	88.41	27.63	16.21	31.12	100	282	A	V
		2488.17	53.37	-20.63	74	40.69	27.52	16.26	31.1	100	282	P	V
		2483.9	43.48	-10.52	54	30.8	27.53	16.25	31.1	100	282	A	V



802.11b CH 11 2462MHz	*	2462	104.23	-	-	91.53	27.58	16.23	31.11	100	223	P	H
	*	2462	101.06	-	-	88.36	27.58	16.23	31.11	100	223	A	H
		2483.68	54.54	-19.46	74	41.86	27.53	16.25	31.1	100	223	P	H
		2483.8	43.51	-10.49	54	30.83	27.53	16.25	31.1	100	223	A	H
													H
													H
	*	2462	104.49	-	-	91.79	27.58	16.23	31.11	100	279	P	V
	*	2462	101.4	-	-	88.7	27.58	16.23	31.11	100	279	A	V
		2491.92	54.3	-19.7	74	41.61	27.52	16.26	31.09	100	279	P	V
		2483.68	43.49	-10.51	54	30.81	27.53	16.25	31.1	100	279	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 Ant. 1	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		4824	49.94	-24.06	74	68.22	31.25	9.63	59.16	100	0	P	H
		7500	66.57	-7.43	74	77.38	36.5	11.79	59.1	100	303	P	H
		7500	48.75	-5.25	54	59.56	36.5	11.79	59.1	100	303	A	H
		12501	59.75	-14.25	74	69.39	38.2	14.86	62.7	198	304	P	H
		12501	45.33	-8.67	54	54.97	38.2	14.86	62.7	198	304	A	H
		4824	43.04	-30.96	74	61.32	31.25	9.63	59.16	100	0	P	V
		7500	67.59	-6.41	74	78.4	36.5	11.79	59.1	251	324	P	V
		7500	49.96	-4.04	54	60.77	36.5	11.79	59.1	251	324	A	V
		12501	49.98	-24.02	74	59.62	38.2	14.86	62.7	100	0	P	V
802.11b CH 06 2437MHz		4874	48.87	-25.13	74	67.15	31.25	9.64	59.17	100	0	P	H
		7311	47.85	-26.15	74	58.82	36.52	11.69	59.18	100	0	P	H
		7500	66.91	-7.09	74	77.72	36.5	11.79	59.1	100	306	P	H
		7500	48	-6	54	58.81	36.5	11.79	59.1	100	306	A	H
		12501	58.54	-15.46	74	68.18	38.2	14.86	62.7	250	303	P	H
		12501	44.61	-9.39	54	54.25	38.2	14.86	62.7	250	303	A	H
		4874	42.36	-31.64	74	60.64	31.25	9.64	59.17	100	0	P	V
		7311	45.9	-28.1	74	56.87	36.52	11.69	59.18	100	0	P	V
		7500	67.87	-6.13	74	78.68	36.5	11.79	59.1	251	326	P	V
		7500	49.6	-4.4	54	60.41	36.5	11.79	59.1	251	326	A	V
		12501	52.38	-21.62	74	62.02	38.2	14.86	62.7	198	23	P	V
		12501	36.78	-17.22	54	46.42	38.2	14.86	62.7	198	23	A	V



802.11b CH 11 2462MHz		4924	47.76	-26.24	74	65.95	31.34	9.65	59.18	100	0	P	H
		7386	43.82	-30.18	74	54.77	36.46	11.74	59.15	100	0	P	H
		7500	67.17	-6.83	74	77.98	36.5	11.79	59.1	100	306	P	H
		7500	48.41	-5.59	54	59.22	36.5	11.79	59.1	100	306	A	H
		12501	60.58	-13.42	74	70.22	38.2	14.86	62.7	199	302	P	H
		12501	45.16	-8.84	54	54.8	38.2	14.86	62.7	199	302	A	H
		4924	42.01	-31.99	74	60.2	31.34	9.65	59.18	100	0	P	V
		7386	44.3	-29.7	74	55.25	36.46	11.74	59.15	100	0	P	V
		7500	67.59	-6.41	74	78.4	36.5	11.79	59.1	249	333	P	V
		7500	48.92	-5.08	54	59.73	36.5	11.79	59.1	249	333	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	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		2317.245	54.76	-19.24	74	41.81	28.07	16.06	31.18	100	228	P	H
		2390	43.87	-10.13	54	31.1	27.76	16.16	31.15	100	228	A	H
	*	2412	104.97	-	-	92.24	27.68	16.18	31.13	100	228	P	H
	*	2412	97.41	-	-	84.68	27.68	16.18	31.13	100	228	A	H
													H
													H
		2313.78	54.57	-19.43	74	41.62	28.07	16.06	31.18	100	279	P	V
		2390	43.92	-10.08	54	31.15	27.76	16.16	31.15	100	279	A	V
	*	2412	105.65	-	-	92.92	27.68	16.18	31.13	100	279	P	V
	*	2412	97.73	-	-	85	27.68	16.18	31.13	100	279	A	V
													V
													V
802.11g CH 06 2437MHz		2374.96	54.45	-19.55	74	41.61	27.85	16.14	31.15	100	228	P	H
		2311.68	43.52	-10.48	54	30.56	28.08	16.06	31.18	100	228	A	H
	*	2437	105.21	-	-	92.49	27.63	16.21	31.12	100	228	P	H
	*	2437	97.25	-	-	84.53	27.63	16.21	31.12	100	228	A	H
		2497.48	53.5	-20.5	74	40.81	27.51	16.27	31.09	100	228	P	H
		2485.44	43.34	-10.66	54	30.65	27.53	16.26	31.1	100	228	A	H
		2335.76	54.35	-19.65	74	41.4	28.03	16.09	31.17	100	268	P	V
		2335.06	43.54	-10.46	54	30.59	28.03	16.09	31.17	100	268	A	V
	*	2437	105.29	-	-	92.57	27.63	16.21	31.12	100	268	P	V
	*	2437	97.18	-	-	84.46	27.63	16.21	31.12	100	268	A	V
		2498.46	53.67	-20.33	74	40.99	27.5	16.27	31.09	100	268	P	V
		2485.23	43.34	-10.66	54	30.65	27.53	16.26	31.1	100	268	A	V



802.11g CH 11 2462MHz	*	2462	105.52	-	-	92.82	27.58	16.23	31.11	100	223	P	H
	*	2462	97.41	-	-	84.71	27.58	16.23	31.11	100	223	A	H
		2494.28	54.35	-19.65	74	41.67	27.51	16.26	31.09	100	223	P	H
		2483.52	43.88	-10.12	54	31.2	27.53	16.25	31.1	100	223	A	H
													H
													H
	*	2462	106.24	-	-	93.54	27.58	16.23	31.11	100	283	P	V
	*	2462	97.47	-	-	84.77	27.58	16.23	31.11	100	283	A	V
		2485.16	54.51	-19.49	74	41.82	27.53	16.26	31.1	100	283	P	V
		2483.6	43.9	-10.1	54	31.22	27.53	16.25	31.1	100	283	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 Ant. 1	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		4824	47.7	-26.3	74	65.98	31.25	9.63	59.16	100	0	P	H
		7500	66.53	-7.47	74	77.34	36.5	11.79	59.1	100	306	P	H
		7500	46.19	-7.81	54	57	36.5	11.79	59.1	100	306	A	H
		12501	59.86	-14.14	74	69.5	38.2	14.86	62.7	201	306	P	H
		12501	44.25	-9.75	54	53.89	38.2	14.86	62.7	201	306	A	H
		4824	41.35	-32.65	74	59.63	31.25	9.63	59.16	100	0	P	V
		7500	67.58	-6.42	74	78.39	36.5	11.79	59.1	249	336	P	V
		7500	47.21	-6.79	54	58.02	36.5	11.79	59.1	249	336	A	V
802.11g CH 06 2437MHz		4874	47.73	-26.27	74	66.01	31.25	9.64	59.17	100	0	P	H
		7311	45.38	-28.62	74	56.35	36.52	11.69	59.18	100	0	P	H
		7500	67.03	-6.97	74	77.84	36.5	11.79	59.1	100	302	P	H
		7500	46.5	-7.5	54	57.31	36.5	11.79	59.1	100	302	A	H
		12501	59.88	-14.12	74	69.52	38.2	14.86	62.7	199	308	P	H
		12501	44.1	-9.9	54	53.74	38.2	14.86	62.7	199	308	A	H
		4874	39.62	-34.38	74	57.9	31.25	9.64	59.17	100	0	P	V
		7311	46.08	-27.92	74	57.05	36.52	11.69	59.18	100	0	P	V
		7500	68.58	-5.42	74	79.39	36.5	11.79	59.1	251	325	P	V
		7500	47.8	-6.2	54	58.61	36.5	11.79	59.1	251	325	A	V



802.11g CH 11 2462MHz		4924	45.93	-28.07	74	64.12	31.34	9.65	59.18	100	0	P	H
		7386	42.98	-31.02	74	53.93	36.46	11.74	59.15	100	0	P	H
		7500	65.61	-8.39	74	76.42	36.5	11.79	59.1	100	312	P	H
		7500	45.73	-8.27	54	56.54	36.5	11.79	59.1	100	312	A	H
		12501	57.6	-16.4	74	67.24	38.2	14.86	62.7	202	301	P	H
		12501	38.96	-15.04	54	48.6	38.2	14.86	62.7	202	301	A	H
		4924	41.11	-32.89	74	59.3	31.34	9.65	59.18	100	0	P	V
		7386	44.76	-29.24	74	55.71	36.46	11.74	59.15	100	0	P	V
		7500	66.94	-7.06	74	77.75	36.5	11.79	59.1	228	333	P	V
		7500	46.77	-7.23	54	57.58	36.5	11.79	59.1	228	333	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2372.265	55.02	-18.98	74	42.17	27.87	16.13	31.15	100	238	P	H
		2332.26	43.63	-10.37	54	30.68	28.04	16.08	31.17	100	238	A	H
	*	2412	101.93	-	-	89.2	27.68	16.18	31.13	100	238	P	H
	*	2412	98.67	-	-	85.94	27.68	16.18	31.13	100	238	A	H
													H
													H
		2312.31	54.11	-19.89	74	41.15	28.08	16.06	31.18	387	262	P	V
		2310.63	43.58	-10.42	54	30.63	28.08	16.05	31.18	387	262	A	V
	*	2412	95.51	-	-	82.78	27.68	16.18	31.13	387	262	P	V
	*	2412	92.29	-	-	79.56	27.68	16.18	31.13	387	262	A	V
													V
													V
802.11b CH 06 2437MHz		2366	54.71	-19.29	74	41.84	27.9	16.13	31.16	136	236	P	H
		2335.48	43.63	-10.37	54	30.68	28.03	16.09	31.17	136	236	A	H
	*	2437	101.09	-	-	88.37	27.63	16.21	31.12	136	236	P	H
	*	2437	97.93	-	-	85.21	27.63	16.21	31.12	136	236	A	H
		2494.12	54.9	-19.1	74	42.22	27.51	16.26	31.09	136	236	P	H
		2483.62	43.39	-10.61	54	30.71	27.53	16.25	31.1	136	236	A	H
		2345.98	54.85	-19.15	74	41.91	28.01	16.1	31.17	400	118	P	V
		2331.98	43.59	-10.41	54	30.64	28.04	16.08	31.17	400	118	A	V
	*	2437	96.19	-	-	83.47	27.63	16.21	31.12	400	118	P	V
	*	2437	92.85	-	-	80.13	27.63	16.21	31.12	400	118	A	V
		2496.85	53.63	-20.37	74	40.94	27.51	16.27	31.09	400	118	P	V
		2484.88	43.35	-10.65	54	30.67	27.53	16.25	31.1	400	118	A	V



802.11b CH 11 2462MHz	*	2462	100.38	-	-	87.68	27.58	16.23	31.11	100	237	P	H
	*	2462	97.25	-	-	84.55	27.58	16.23	31.11	100	237	A	H
		2499.16	54.06	-19.94	74	41.38	27.5	16.27	31.09	100	237	P	H
		2484.84	43.44	-10.56	54	30.76	27.53	16.25	31.1	100	237	A	H
													H
													H
	*	2462	96.45	-	-	83.75	27.58	16.23	31.11	397	111	P	V
	*	2462	93.2	-	-	80.5	27.58	16.23	31.11	397	111	A	V
		2496.92	54.35	-19.65	74	41.66	27.51	16.27	31.09	397	111	P	V
		2483.52	43.39	-10.61	54	30.71	27.53	16.25	31.1	397	111	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 Ant. 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		4824	59.51	-14.49	74	77.79	31.25	9.63	59.16	100	51	P	H
		4824	49.63	-4.37	54	67.91	31.25	9.63	59.16	100	51	A	H
		7500	65.36	-8.64	74	76.17	36.5	11.79	59.1	100	70	P	H
		7500	45	-9	54	55.81	36.5	11.79	59.1	100	70	A	H
		4824	49.29	-24.71	74	67.57	31.25	9.63	59.16	100	0	P	V
		7500	68.38	-5.62	74	79.19	36.5	11.79	59.1	100	161	P	V
		7500	47.99	-6.01	54	58.8	36.5	11.79	59.1	100	161	A	V
		12501	59.93	-14.07	74	69.57	38.2	14.86	62.7	100	74	P	V
		12501	45.18	-8.82	54	54.82	38.2	14.41	62.7	100	74	A	V
802.11b CH 06 2437MHz		4874	59.04	-14.96	74	77.32	31.25	9.64	59.17	100	45	P	H
		4874	49.32	-4.68	54	67.6	31.25	9.64	59.17	100	45	A	H
		7311	46.03	-27.97	74	57	36.52	11.69	59.18	100	0	P	H
		7500	66.25	-7.75	74	77.06	36.5	11.79	59.1	100	0	P	H
		4874	49.33	-24.67	74	67.61	31.25	9.64	59.17	100	0	P	V
		7311	46.6	-27.4	74	57.57	36.52	11.69	59.18	100	0	P	V
		7500	68.32	-5.68	74	79.13	36.5	11.79	59.1	100	156	P	V
		7500	47.78	-6.22	54	58.59	36.5	11.79	59.1	100	156	A	V
802.11b CH 11 2462MHz		4924	58.36	-15.64	74	76.55	31.34	9.65	59.18	100	64	P	H
		4924	48.42	-5.58	54	66.61	31.34	9.65	59.18	100	64	A	H
		7386	44.2	-29.8	74	55.15	36.46	11.74	59.15	100	0	P	H
		7500	65.51	-8.49	74	76.32	36.5	11.79	59.1	100	47	P	H
		4924	49.95	-24.05	74	68.14	31.34	9.65	59.18	100	0	P	V
		7386	44.37	-29.63	74	55.32	36.46	11.74	59.15	100	0	P	V
		7500	67.22	-6.78	74	78.03	36.5	11.79	59.1	100	164	P	V
		7500	47.66	-6.34	54	58.47	36.5	11.79	59.1	100	164	A	V
		12501	57.92	-16.08	74	67.56	38.2	14.86	62.7	100	79	P	V
		12501	41.57	-12.43	54	51.21	38.2	14.86	62.7	100	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		2325.225	54.8	-19.2	74	41.86	28.05	16.07	31.18	100	239	P	H
		2331.945	43.6	-10.4	54	30.65	28.04	16.08	31.17	100	239	A	H
	*	2412	102.78	-	-	90.05	27.68	16.18	31.13	100	239	P	H
	*	2412	94.71	-	-	81.98	27.68	16.18	31.13	100	239	A	H
													H
													H
		2365.545	54.33	-19.67	74	41.45	27.91	16.13	31.16	386	269	P	V
		2333.625	43.6	-10.4	54	30.66	28.03	16.08	31.17	386	269	A	V
	*	2412	98.42	-	-	85.69	27.68	16.18	31.13	386	269	P	V
	*	2412	90.29	-	-	77.56	27.68	16.18	31.13	386	269	A	V
													V
													V
802.11g CH 06 2437MHz		2320.36	54.35	-19.65	74	41.4	28.06	16.07	31.18	100	313	P	H
		2339.26	43.63	-10.37	54	30.69	28.02	16.09	31.17	100	313	A	H
	*	2437	102.51	-	-	89.79	27.63	16.21	31.12	100	313	P	H
	*	2437	94.49	-	-	81.77	27.63	16.21	31.12	100	313	A	H
		2484.74	54.31	-19.69	74	41.63	27.53	16.25	31.1	100	313	P	H
		2485.58	43.42	-10.58	54	30.73	27.53	16.26	31.1	100	313	A	H
		2331	54.45	-19.55	74	41.5	28.04	16.08	31.17	400	91	P	V
		2328.48	43.65	-10.35	54	30.71	28.04	16.08	31.18	400	91	A	V
	*	2437	97.03	-	-	84.31	27.63	16.21	31.12	400	91	P	V
	*	2437	89.01	-	-	76.29	27.63	16.21	31.12	400	91	A	V
		2485.37	54.23	-19.77	74	41.54	27.53	16.26	31.1	400	91	P	V
		2483.55	43.37	-10.63	54	30.69	27.53	16.25	31.1	400	91	A	V



802.11g CH 11 2462MHz	*	2462	102.18	-	-	89.48	27.58	16.23	31.11	100	238	P	H
	*	2462	93.74	-	-	81.04	27.58	16.23	31.11	100	238	A	H
		2486.32	54.22	-19.78	74	41.53	27.53	16.26	31.1	100	238	P	H
		2483.56	43.7	-10.3	54	31.02	27.53	16.25	31.1	100	238	A	H
													H
													H
	*	2462	98.01	-	-	85.31	27.58	16.23	31.11	395	114	P	V
	*	2462	89.72	-	-	77.02	27.58	16.23	31.11	395	114	A	V
		2496.28	54.54	-19.46	74	41.85	27.51	16.27	31.09	395	114	P	V
		2483.8	43.48	-10.52	54	30.8	27.53	16.25	31.1	395	114	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 Ant. 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		4824	62.01	-11.99	74	80.29	31.25	9.63	59.16	100	51	P	H
		4824	44.3	-9.7	54	62.58	31.25	9.63	59.16	100	51	A	H
		7500	66.83	-7.17	74	77.64	36.5	11.79	59.1	100	51	P	H
		7500	45.49	-8.51	54	56.3	36.5	11.79	59.1	100	51	A	H
		4824	49.5	-24.5	74	67.78	31.25	9.63	59.16	100	0	P	V
		7500	70.5	-3.5	74	81.31	36.5	11.79	59.1	100	259	P	V
		7500	48.73	-5.27	54	59.54	36.5	11.79	59.1	100	259	A	V
		12500	60.26	-13.74	74	69.9	38.2	14.86	62.7	100	79	P	V
		12500	45.56	-8.44	54	55.2	38.2	14.41	62.7	100	79	A	V
802.11g CH 06 2437MHz		4874	59.45	-14.55	74	77.73	31.25	9.64	59.17	100	60	P	H
		4874	41.88	-12.12	54	60.16	31.25	9.64	59.17	100	60	A	H
		7311	48.43	-25.57	74	59.4	36.52	11.69	59.18	100	0	P	H
		7500	66.72	-7.28	74	77.53	36.5	11.79	59.1	100	46	P	H
		4874	49.09	-24.91	74	67.37	31.25	9.64	59.17	100	0	P	V
		7311	46.1	-27.9	74	57.07	36.52	11.69	59.18	100	0	P	V
		7500	70.88	-3.12	74	81.69	36.5	11.79	59.1	100	33	P	V
		7500	48.08	-5.92	54	58.89	36.5	11.79	59.1	100	33	A	V
802.11g CH 11 2462MHz		4924	59.05	-14.95	74	77.24	31.34	9.65	59.18	100	50	P	H
		4924	42.68	-11.32	54	60.87	31.34	9.65	59.18	100	50	A	H
		7386	47.9	-26.1	74	58.85	36.46	11.74	59.15	100	0	P	H
		7500	66.08	-7.92	74	76.89	36.5	11.79	59.1	100	50	P	H
		4924	47.4	-26.6	74	65.59	31.34	9.65	59.18	100	0	P	V
		7386	49.54	-24.46	74	60.49	36.46	11.74	59.15	100	0	P	V
		7500	69.66	-4.34	74	80.47	36.5	11.79	59.1	100	38	P	V
		7500	48.07	-5.93	54	58.88	36.5	11.79	59.1	100	38	A	V
		12501	60.06	-13.94	74	69.7	38.2	14.86	62.7	100	73	P	V
		12501	45.03	-8.97	54	54.67	38.2	14.86	62.7	100	73	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 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		2390	57.39	-16.61	74	44.62	27.76	16.16	31.15	100	236	P	H
		2390	46.13	-7.87	54	33.36	27.76	16.16	31.15	100	236	A	H
	*	2412	109.17	-	-	96.44	27.68	16.18	31.13	100	236	P	H
	*	2412	101.21	-	-	88.48	27.68	16.18	31.13	100	236	A	H
													H
													H
		2389.695	55.39	-18.61	74	42.62	27.76	16.16	31.15	378	270	P	V
		2390	45.14	-8.86	54	32.37	27.76	16.16	31.15	378	270	A	V
	*	2412	106.29	-	-	93.56	27.68	16.18	31.13	378	270	P	V
	*	2412	98.08	-	-	85.35	27.68	16.18	31.13	378	270	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2336.46	55.15	-18.85	74	42.2	28.03	16.09	31.17	100	237	P	H
		2336.18	43.66	-10.34	54	30.71	28.03	16.09	31.17	100	237	A	H
	*	2437	109.16	-	-	96.44	27.63	16.21	31.12	100	237	P	H
	*	2437	100.83	-	-	88.11	27.63	16.21	31.12	100	237	A	H
		2489.29	53.93	-20.07	74	41.25	27.52	16.26	31.1	100	237	P	H
		2483.62	43.49	-10.51	54	30.81	27.53	16.25	31.1	100	237	A	H
		2321.06	55.07	-18.93	74	42.12	28.06	16.07	31.18	370	272	P	V
		2343.32	43.58	-10.42	54	30.64	28.01	16.1	31.17	370	272	A	V
	*	2437	106.55	-	-	93.83	27.63	16.21	31.12	370	272	P	V
	*	2437	98.51	-	-	85.79	27.63	16.21	31.12	370	272	A	V
		2484.81	54.26	-19.74	74	41.58	27.53	16.25	31.1	370	272	P	V
		2483.55	43.37	-10.63	54	30.69	27.53	16.25	31.1	370	272	A	V



802.11n HT20 CH 11 2462MHz	*	2462	108.71	-	-	96.01	27.58	16.23	31.11	100	238	P	H
	*	2462	100.07	-	-	87.37	27.58	16.23	31.11	100	238	A	H
		2483.72	56.73	-17.27	74	44.05	27.53	16.25	31.1	100	238	P	H
		2483.52	45.77	-8.23	54	33.09	27.53	16.25	31.1	100	238	A	H
													H
													H
	*	2462	107.22	-	-	94.52	27.58	16.23	31.11	326	273	P	V
	*	2462	98.46	-	-	85.76	27.58	16.23	31.11	326	273	A	V
		2485.8	54.71	-19.29	74	42.02	27.53	16.26	31.1	326	273	P	V
		2483.52	44.81	-9.19	54	32.13	27.53	16.25	31.1	326	273	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 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		4824	63.16	-10.84	74	81.44	31.25	9.63	59.16	100	55	P	H
		4824	43.63	-10.37	54	61.91	31.25	9.63	59.16	100	55	A	H
		7500	64.12	-9.88	74	74.93	36.5	11.79	59.1	100	45	P	H
		7500	43.87	-10.13	54	54.68	36.5	11.79	59.1	100	45	A	H
		4824	58.77	-15.23	74	77.05	31.25	9.63	59.16	100	99	P	V
		4824	41.16	-12.84	54	59.44	31.25	9.63	59.16	100	99	A	V
		7500	66.79	-7.21	74	77.6	36.5	11.79	59.1	100	206	P	V
		7500	45.12	-8.88	54	55.93	36.5	11.79	59.1	100	206	A	V
		12510	61.1	-12.9	74	70.71	38.23	14.86	62.7	100	81	P	V
		12510	44.69	-9.31	54	54.3	38.23	14.86	62.7	100	81	A	V
802.11n HT20 CH 06 2437MHz		4874	61.36	-12.64	74	79.64	31.25	9.64	59.17	100	51	P	H
		4874	43.56	-10.44	54	61.84	31.25	9.64	59.17	100	51	A	H
		7311	55.45	-18.55	74	66.43	36.51	11.69	59.18	100	78	P	H
		7311	43.05	-10.95	54	54.03	36.51	11.69	59.18	100	78	A	H
		7500	67.5	-6.5	74	78.31	36.5	11.79	59.1	100	75	P	H
		7500	44.03	-9.97	54	54.84	36.5	11.79	59.1	100	75	A	H
		4874	57.99	-16.01	74	76.27	31.25	9.64	59.17	100	105	P	V
		4874	41.08	-12.92	54	59.36	31.25	9.64	59.17	100	105	A	V
		7311	45.22	-28.78	74	56.19	36.52	11.69	59.18	100	0	P	V
		7500	65.41	-8.59	74	76.22	36.5	11.79	59.1	100	197	P	V
		7500	44.26	-9.74	54	55.07	36.5	11.79	59.1	100	197	A	V
		12510	59.94	-14.06	74	69.55	38.23	14.86	62.7	100	84	P	V
		12510	44.81	-9.19	54	54.42	38.23	14.86	62.7	100	84	A	V



02.11n HT20 CH 11 2462MHz		4924	60.05	-13.95	74	78.24	31.34	9.65	59.18	100	50	P	H
		4924	40.91	-13.09	54	59.1	31.34	9.65	59.18	100	50	A	H
		7386	47.07	-26.93	74	58.02	36.46	11.74	59.15	100	0	P	H
		7500	64.64	-9.36	74	75.45	36.5	11.79	59.1	100	79	P	H
		7500	44.44	-9.56	54	55.25	36.5	11.79	59.1	100	79	A	H
		4924	57.35	-16.65	74	75.54	31.34	9.65	59.18	400	306	P	V
		4924	39.25	-14.75	54	57.44	31.34	9.65	59.18	400	306	A	V
		7386	43.73	-30.27	74	54.68	36.46	11.74	59.15	100	0	P	V
		7500	67.26	-6.74	74	78.07	36.5	11.79	59.1	301	34	P	V
		7500	45.66	-8.34	54	56.47	36.5	11.79	59.1	301	34	A	V
		11997	53.63	-20.37	74	62.21	39.09	14.93	62.6	100	72	P	V
		11997	45.29	-8.71	54	53.87	39.09	14.93	62.6	100	72	A	V
		12501	58.16	-15.84	74	67.8	38.2	14.86	62.7	100	84	P	V
		12501	43.6	-10.4	54	53.24	38.2	14.86	62.7	100	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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 HT40 CH 03 2422MHz		2389.94	62.65	-11.35	74	49.88	27.76	16.16	31.15	100	235	P	H
		2389.94	50.39	-3.61	54	37.62	27.76	16.16	31.15	100	235	A	H
	*	2422	105.4	-	-	92.68	27.66	16.19	31.13	100	235	P	H
	*	2422	97.64	-	-	84.92	27.66	16.19	31.13	100	235	A	H
		2483.9	53.85	-20.15	74	41.17	27.53	16.25	31.1	100	235	P	H
		2483.55	43.52	-10.48	54	30.84	27.53	16.25	31.1	100	235	A	H
		2389.38	59.23	-14.77	74	46.46	27.76	16.16	31.15	379	269	P	V
		2389.94	49.1	-4.9	54	36.33	27.76	16.16	31.15	379	269	A	V
	*	2422	103.66	-	-	90.94	27.66	16.19	31.13	379	269	P	V
	*	2422	95.29	-	-	82.57	27.66	16.19	31.13	379	269	A	V
		2485.44	54.21	-19.79	74	41.52	27.53	16.26	31.1	379	269	P	V
		2483.76	43.52	-10.48	54	30.84	27.53	16.25	31.1	379	269	A	V
802.11n HT40 CH 06 2437MHz		2389.52	57.89	-16.11	74	45.12	27.76	16.16	31.15	100	237	P	H
		2389.94	47.08	-6.92	54	34.31	27.76	16.16	31.15	100	237	A	H
	*	2437	105.96	-	-	93.24	27.63	16.21	31.12	100	237	P	H
	*	2437	98.25	-	-	85.53	27.63	16.21	31.12	100	237	A	H
		2484.6	58.06	-15.94	74	45.38	27.53	16.25	31.1	100	237	P	H
		2483.5	47.39	-6.61	54	34.71	27.53	16.25	31.1	100	237	A	H
		2356.48	55.76	-18.24	74	42.85	27.96	16.11	31.16	378	273	P	V
		2389.94	45.98	-8.02	54	33.21	27.76	16.16	31.15	378	273	A	V
	*	2437	103.73	-	-	91.01	27.63	16.21	31.12	378	273	P	V
	*	2437	95.9	-	-	83.18	27.63	16.21	31.12	378	273	A	V
		2485.86	56.04	-17.96	74	43.35	27.53	16.26	31.1	378	273	P	V
		2483.5	45.48	-8.52	54	32.8	27.53	16.25	31.1	378	273	A	V



802.11n HT40 CH 09 2452MHz		2321.2	54.4	-19.6	74	41.45	28.06	16.07	31.18	100	236	P	H
		2388.82	43.54	-10.46	54	30.76	27.77	16.16	31.15	100	236	A	H
	*	2452	106.2	-	-	93.49	27.6	16.22	31.11	100	236	P	H
	*	2452	97.85	-	-	85.14	27.6	16.22	31.11	100	236	A	H
		2483.48	61.62	-88.38	150	48.94	27.53	16.25	31.1	100	236	P	H
		2483.5	50.59	-3.41	54	37.91	27.53	16.25	31.1	100	236	A	H
		2345	54.47	-19.53	74	41.53	28.01	16.1	31.17	372	272	P	V
		2327.08	43.65	-10.35	54	30.7	28.05	16.08	31.18	372	272	A	V
	*	2452	103.66	-	-	90.95	27.6	16.22	31.11	372	272	P	V
	*	2452	95.61	-	-	82.9	27.6	16.22	31.11	372	272	A	V
		2483.55	58	-16	74	45.32	27.53	16.25	31.1	372	272	P	V
		2483.5	48.56	-5.44	54	35.88	27.53	16.25	31.1	372	272	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	53.09	-20.91	74	71.34	31.29	9.63	59.17	100	51	P	H
		4844	41.84	-12.16	54	60.09	31.29	9.63	59.17	100	51	A	H
		7266	43.68	-30.32	74	54.71	36.5	11.66	59.19	100	0	P	H
		7500	66.57	-7.43	74	77.38	36.5	11.79	59.1	100	53	P	H
		7500	44.93	-9.07	54	55.74	36.5	11.79	59.1	100	53	A	H
		4844	48.27	-25.73	74	66.52	31.29	9.63	59.17	100	0	P	V
		7266	49.08	-24.92	74	60.11	36.5	11.66	59.19	100	0	P	V
		7500	67.7	-6.3	74	78.51	36.5	11.79	59.1	100	205	P	V
		7500	46.87	-7.13	54	57.68	36.5	11.79	59.1	100	205	A	V
802.11n HT40 CH 06 2437MHz		4874	57.29	-16.71	74	75.57	31.25	9.64	59.17	100	59	P	H
		4874	40.91	-13.09	54	59.19	31.25	9.64	59.17	100	59	A	H
		7311	45.84	-28.16	74	56.81	36.52	11.69	59.18	100	0	P	H
		7500	67.4	-6.6	74	78.21	36.5	11.79	59.1	100	72	P	H
		7500	43.71	-10.29	54	54.52	36.5	11.79	59.1	100	72	A	H
		4874	48.78	-25.22	74	67.06	31.25	9.64	59.17	100	0	P	V
		7311	44.39	-29.61	74	55.36	36.52	11.69	59.18	100	0	P	V
		7500	65.57	-8.43	74	76.38	36.5	11.79	59.1	100	201	P	V
		7500	47.01	-6.99	54	57.82	36.5	11.79	59.1	100	201	A	V
802.11n HT40 CH 09 2452MHz		4904	56.9	-17.1	74	75.22	31.22	9.64	59.18	100	53	P	H
		4904	40.88	-13.12	54	59.2	31.22	9.64	59.18	100	53	A	H
		7356	43.98	-30.02	74	54.84	36.58	11.72	59.16	100	0	P	H
		7500	67.67	-6.33	74	78.48	36.5	11.79	59.1	100	74	P	H
		7500	47.68	-6.32	54	58.49	36.5	11.79	59.1	100	74	A	H
		4904	49.68	-24.32	74	68	31.22	9.64	59.18	100	0	P	V
		7356	44.6	-29.4	74	55.46	36.58	11.72	59.16	100	0	P	V
		7500	67.44	-6.56	74	78.25	36.5	11.79	59.1	100	203	P	V
		7500	46.51	-7.49	54	57.32	36.5	11.79	59.1	100	203	A	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 HT40 (LF)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11n HT40 LF		31.94	23.34	-16.66	40	31.68	23.36	0.73	32.43	-	-	P	H
		97.9	22.55	-20.95	43.5	37.96	15.65	1.33	32.39	-	-	P	H
		164.83	23.51	-19.99	43.5	38.18	16.04	1.81	32.52	-	-	P	H
		379.2	26.25	-19.75	46	34.65	21.05	2.52	31.97	-	-	P	H
		838.01	38.49	-7.51	46	37.97	28.72	3.8	32	-	-	P	H
		885.54	38.73	-7.27	46	37.56	29.03	3.93	31.79	100	0	P	H
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		30.97	28.59	-11.41	40	36.28	24.01	0.72	32.42	-	-	P	V
		95.96	22.87	-20.63	43.5	38.59	15.34	1.33	32.39	-	-	P	V
		224	20.02	-25.98	46	35.02	15.46	2.04	32.5	-	-	P	V
		258.92	24.27	-21.73	46	34.89	19.59	2.16	32.37	-	-	P	V
		742.95	35.22	-10.78	46	35.67	28.01	3.53	31.99	-	-	P	V
		885.54	38.61	-7.39	46	37.44	29.03	3.93	31.79	100	0	P	V
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Remark	1. No other spurious found. 2. All results are PASS against limit line.												