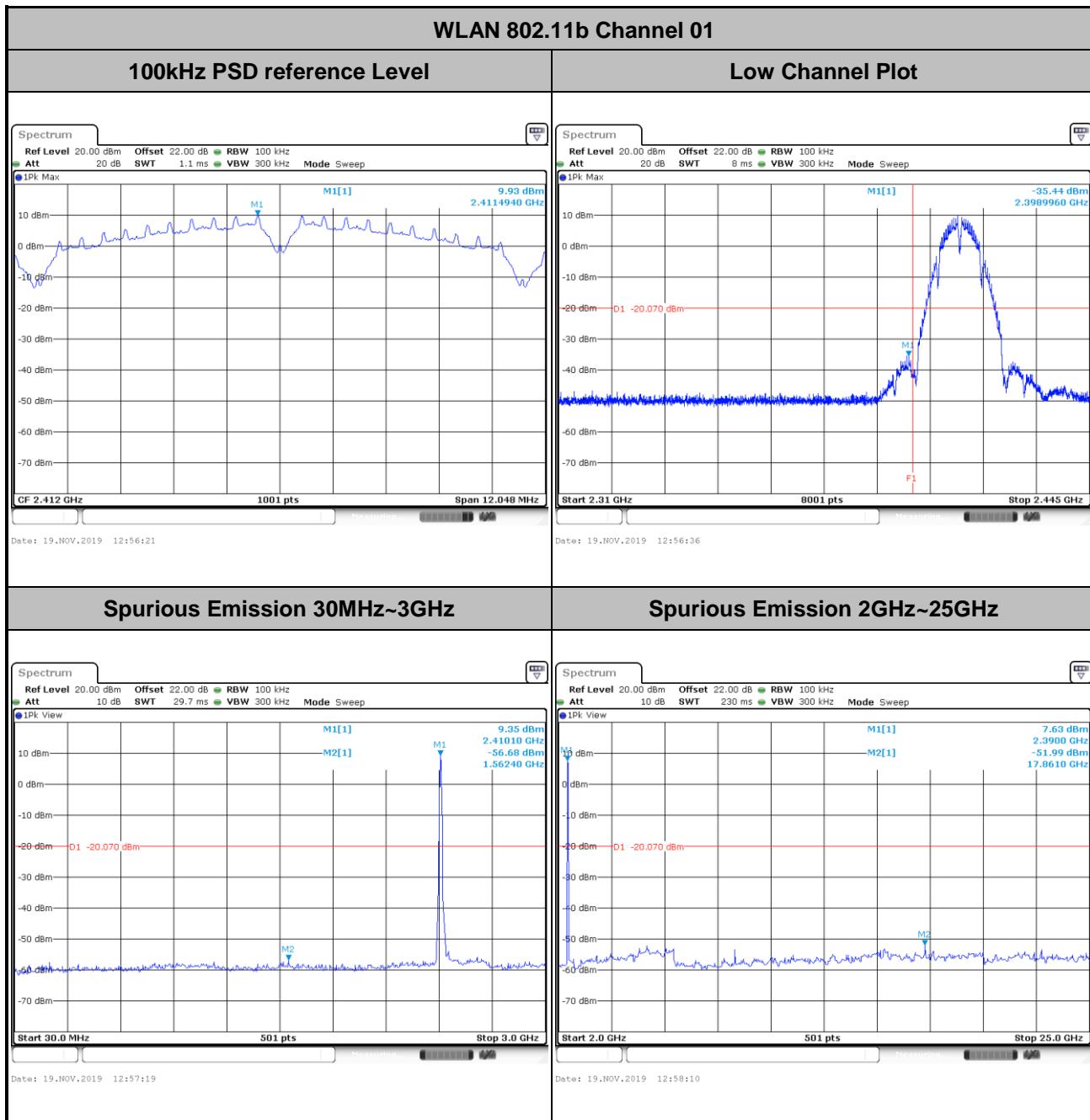
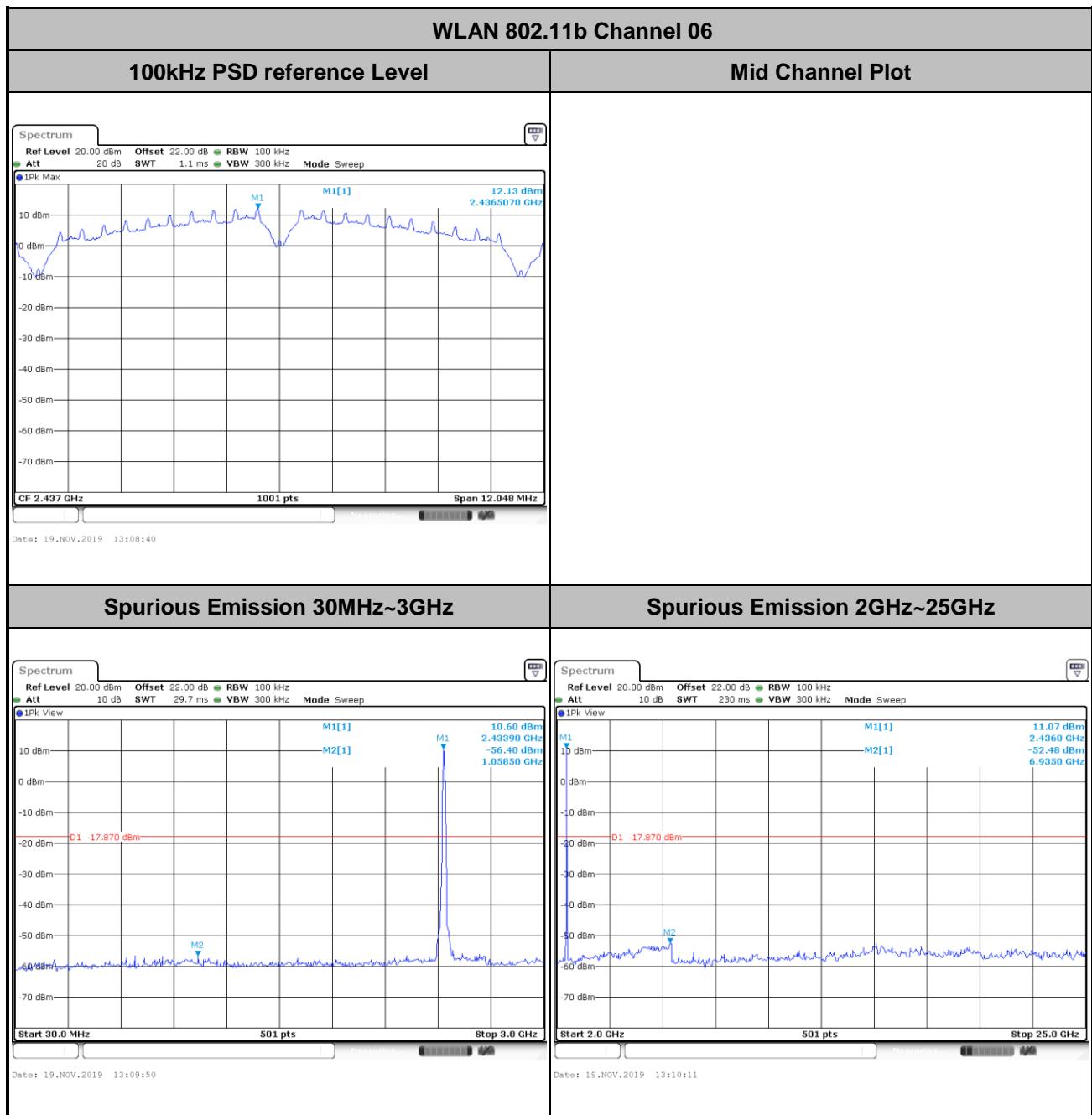
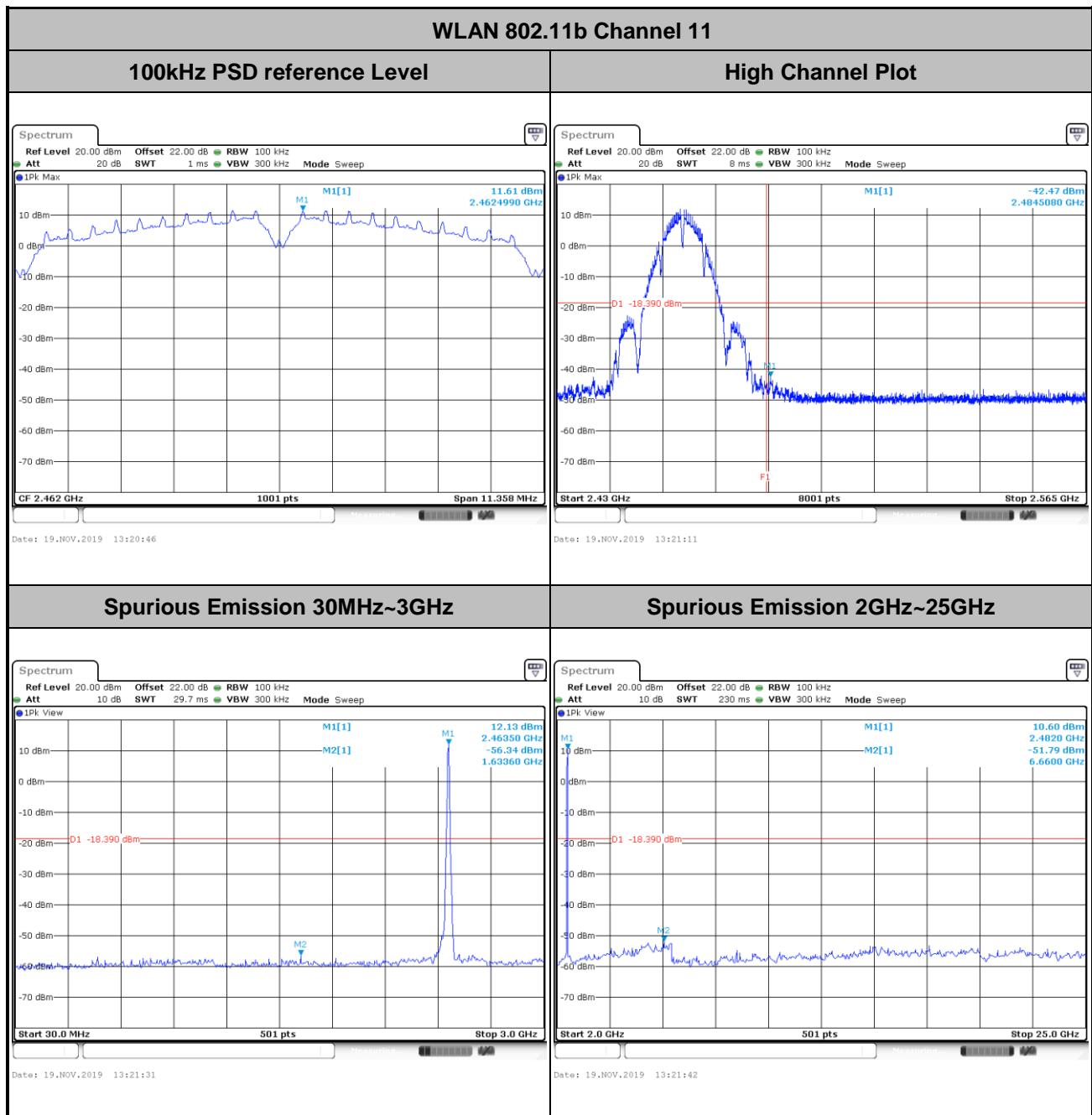


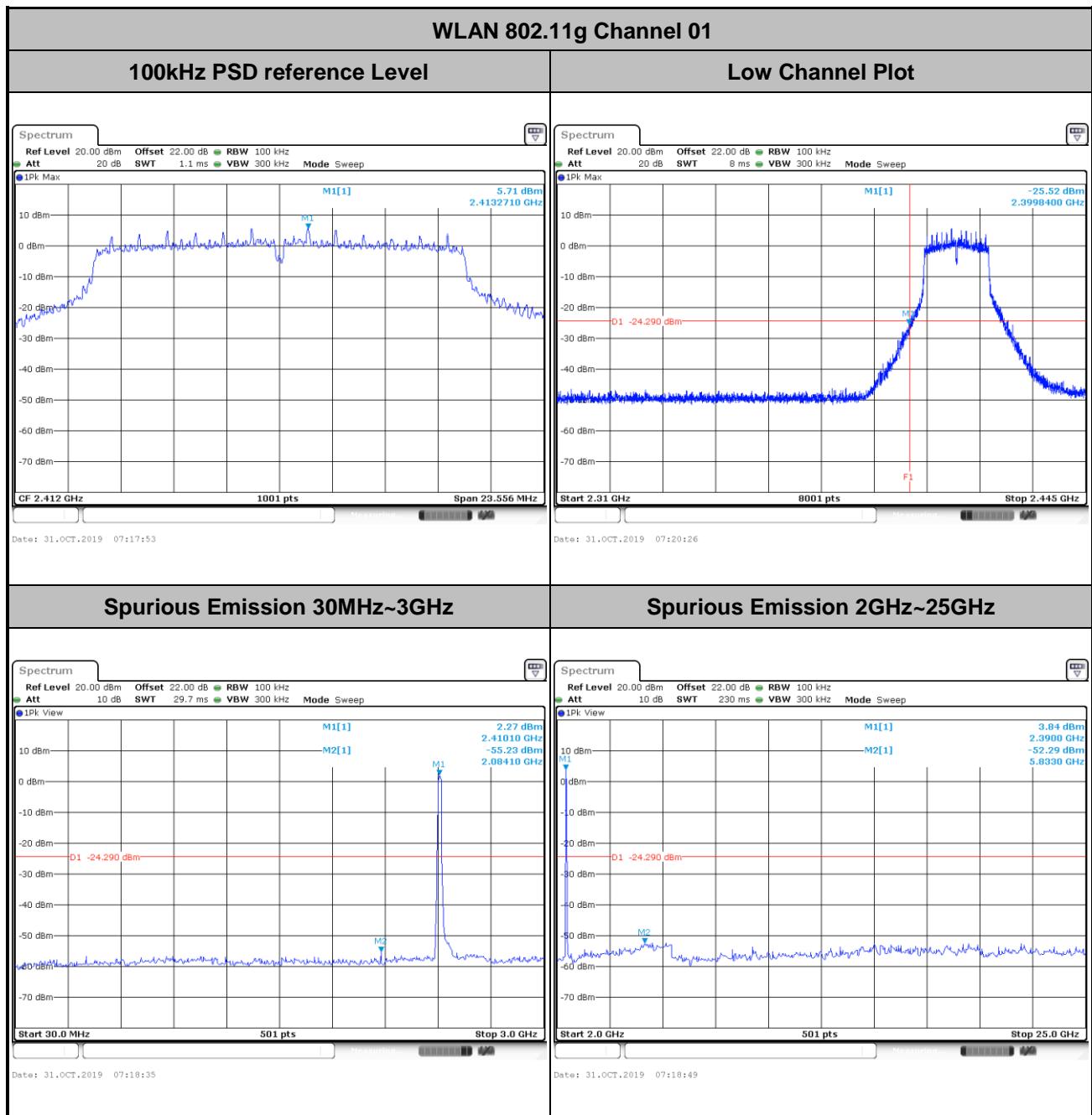


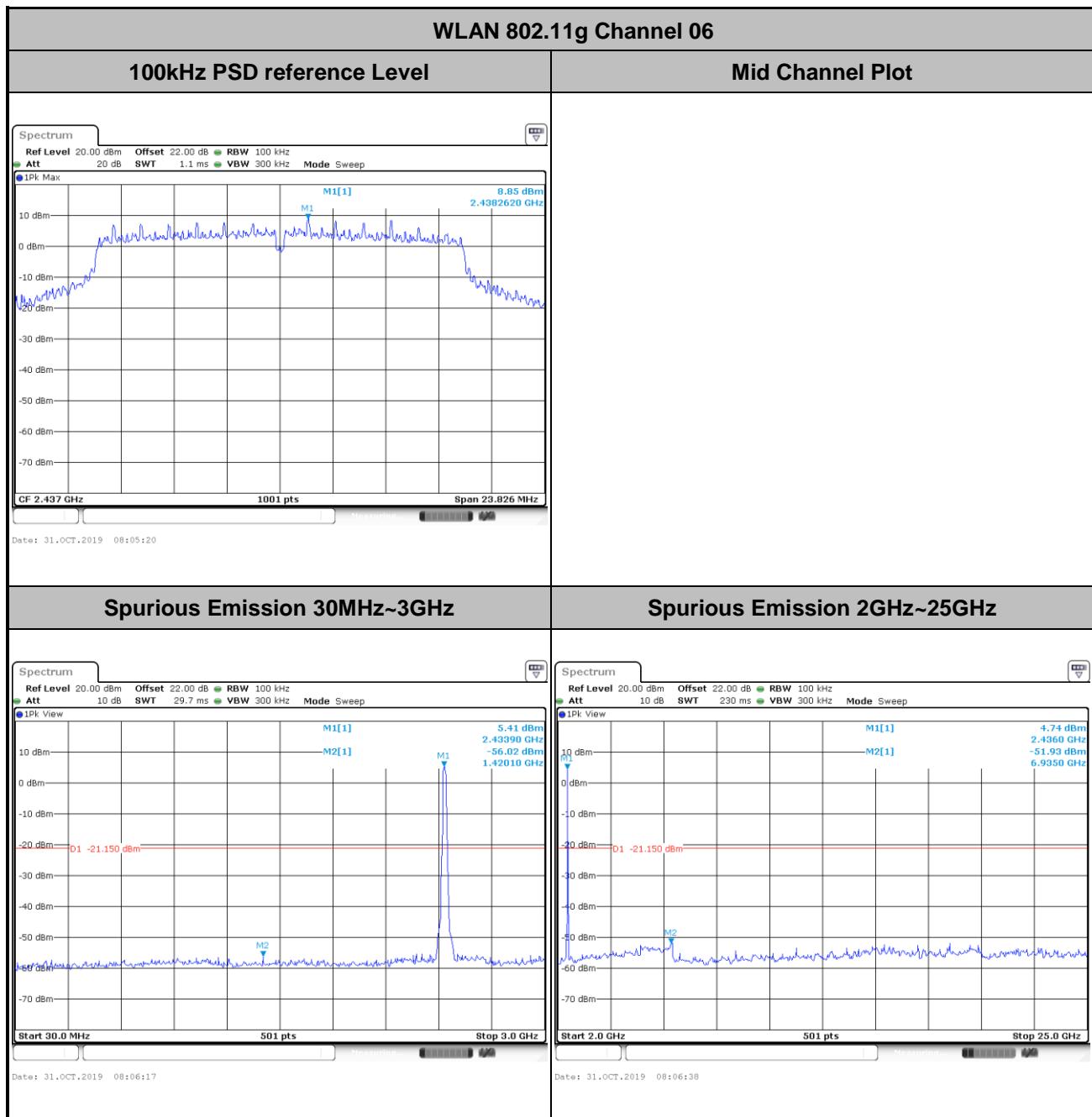
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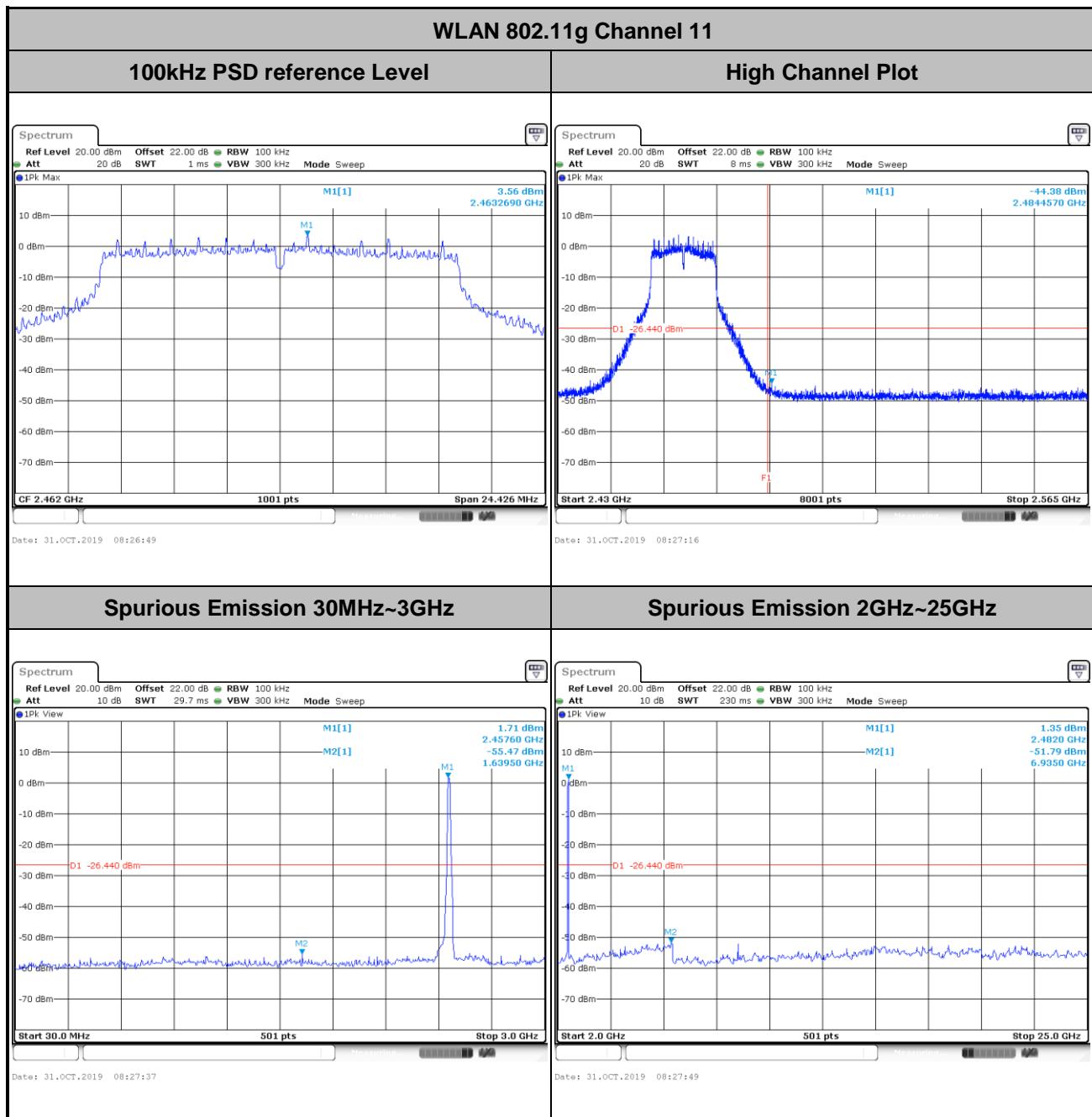


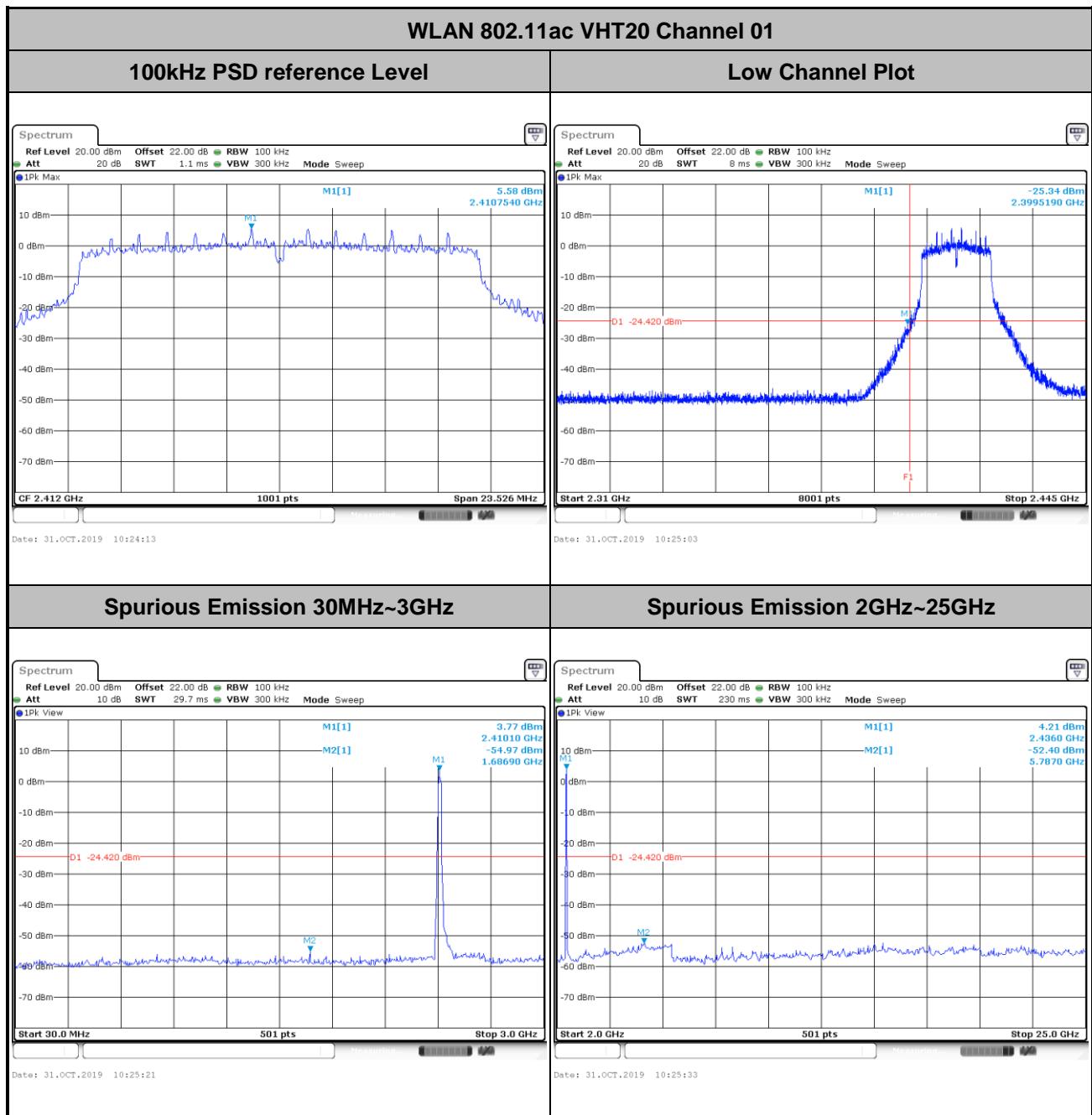


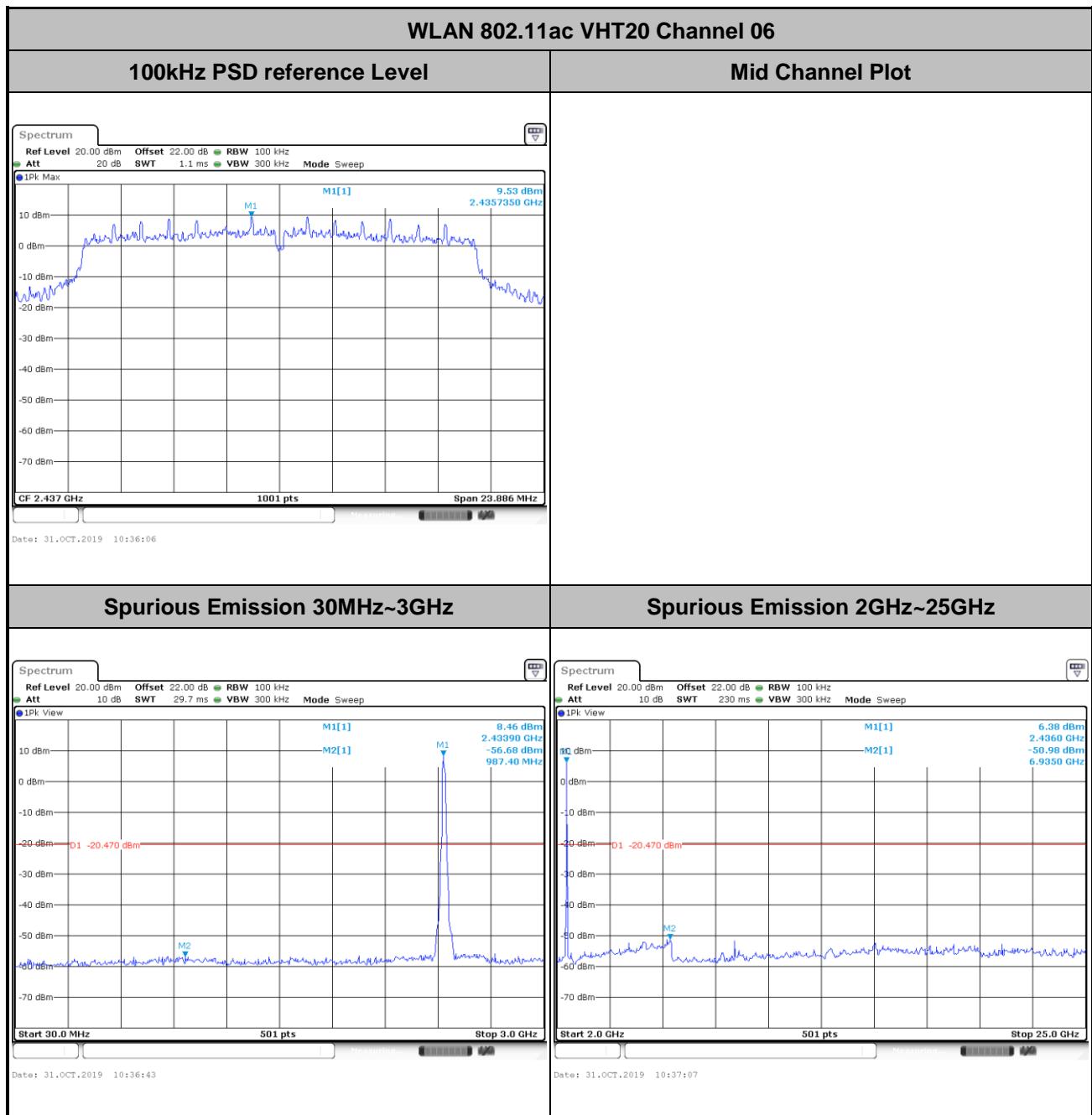


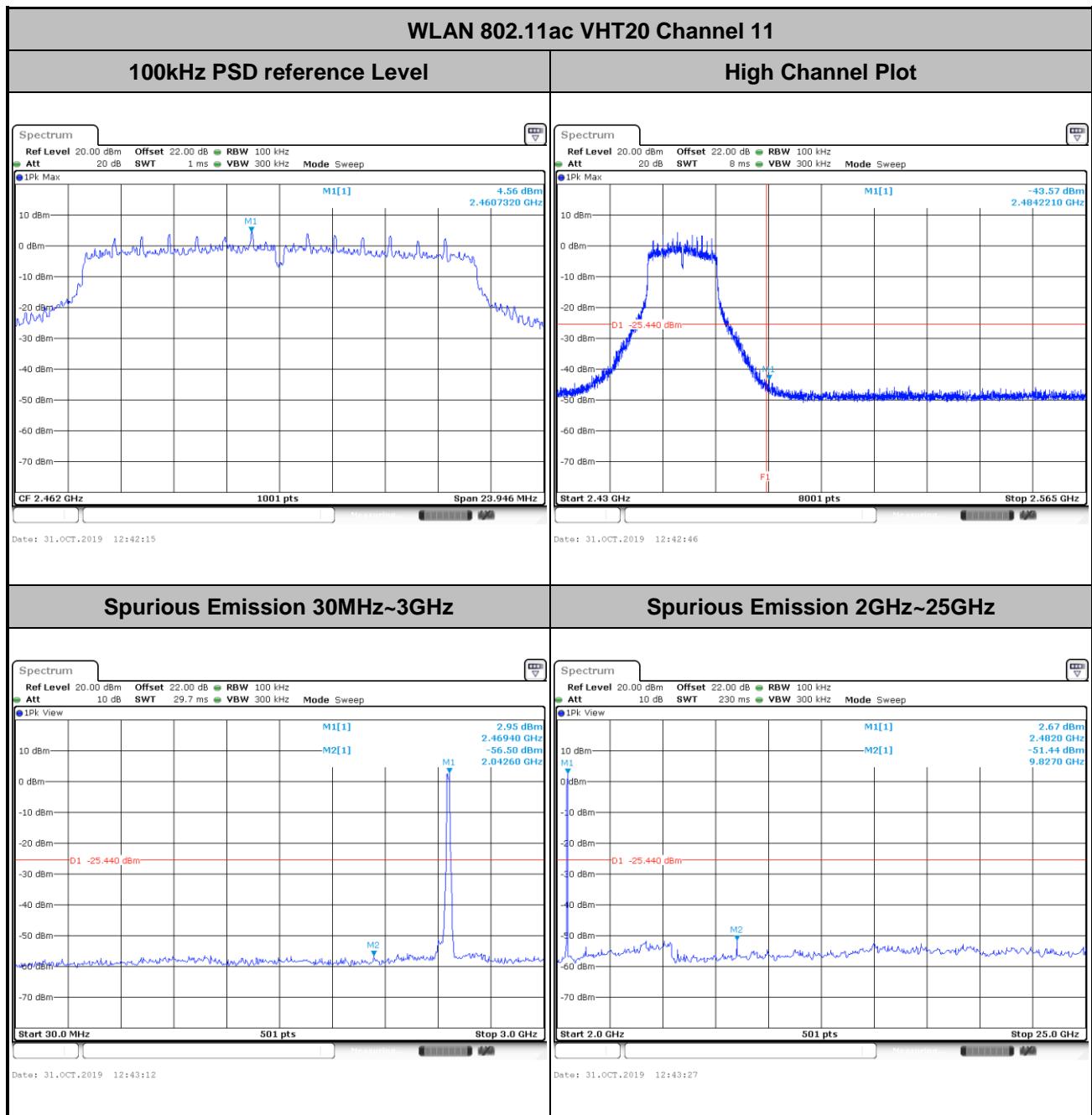


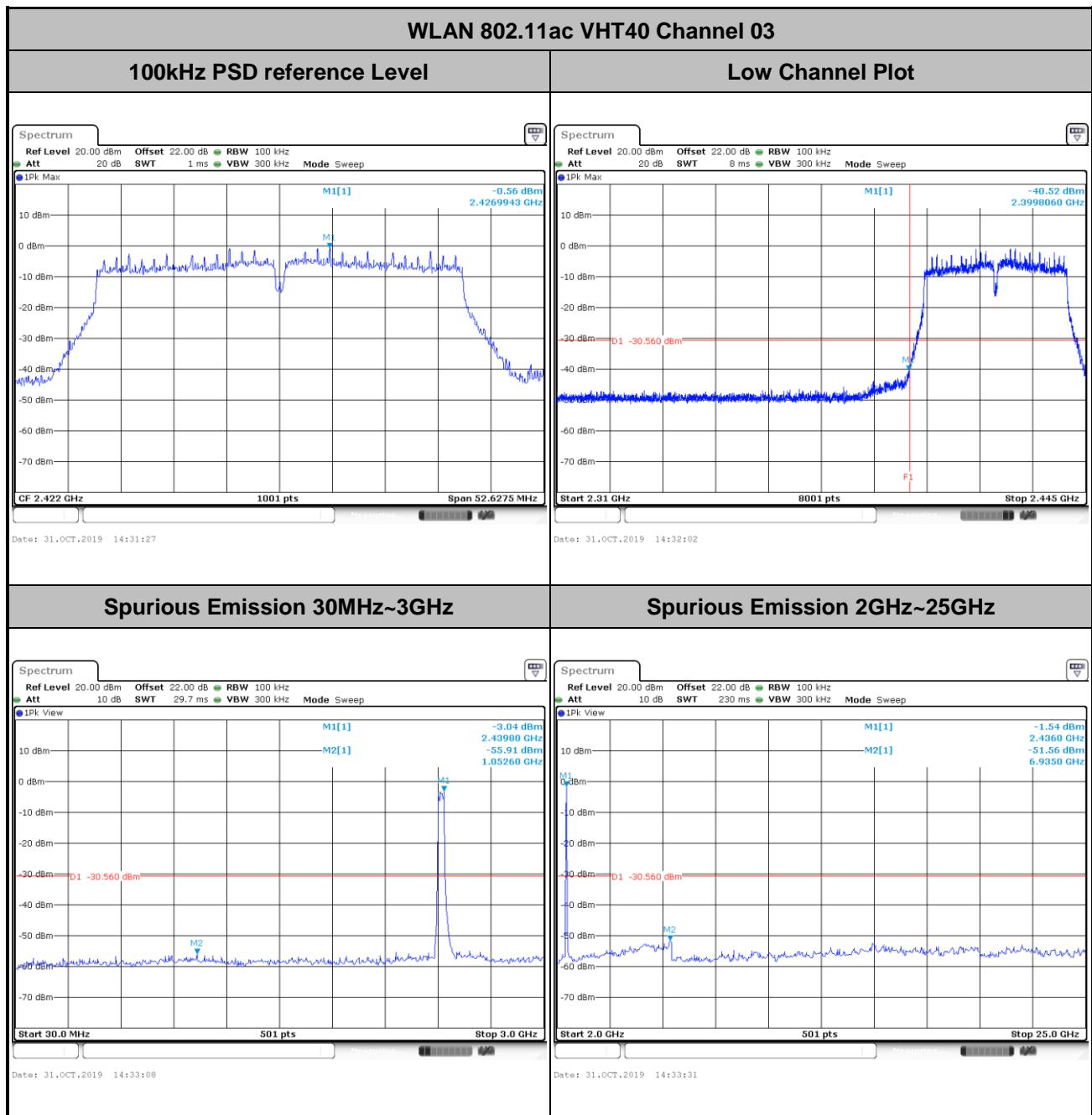


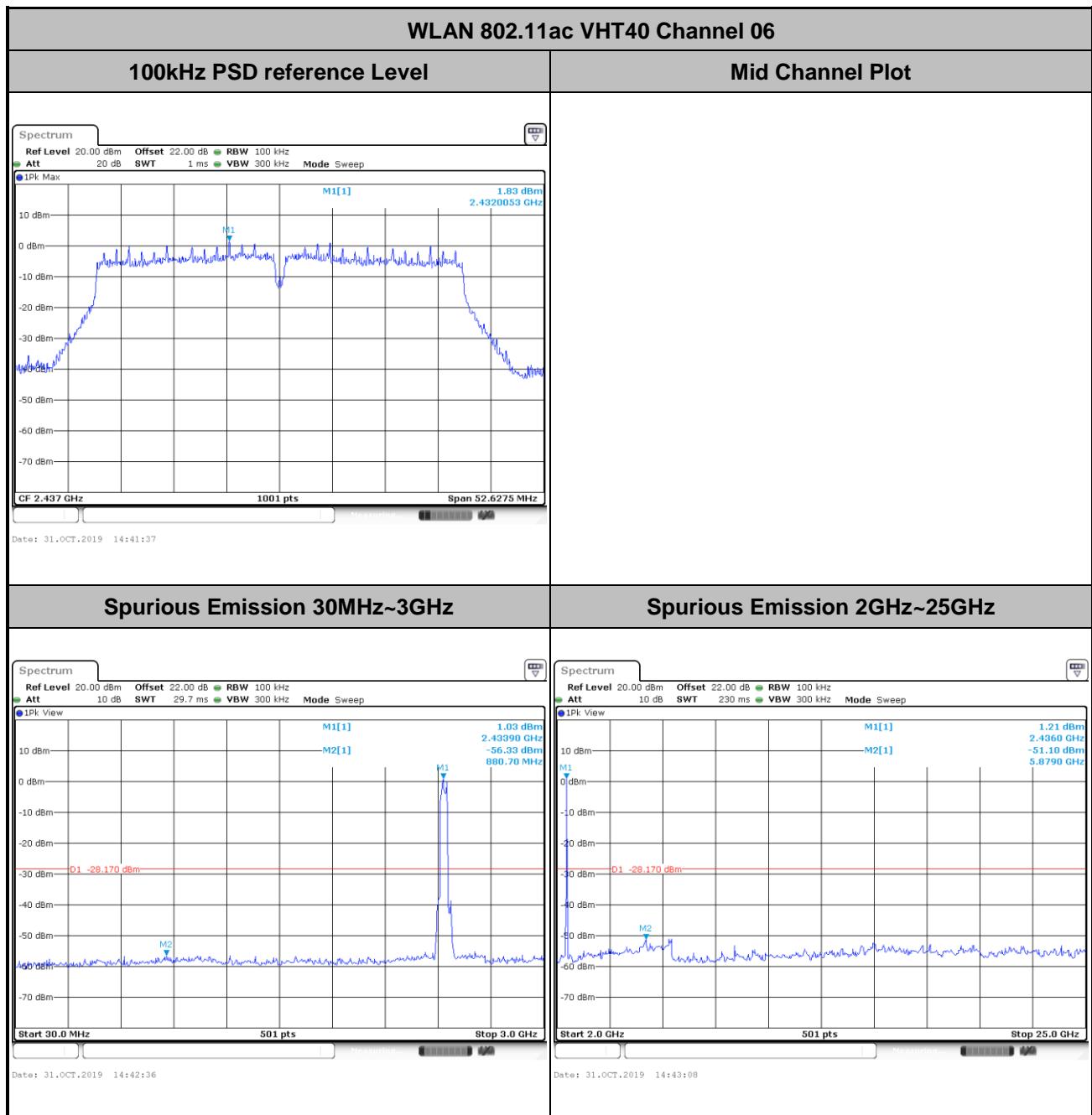


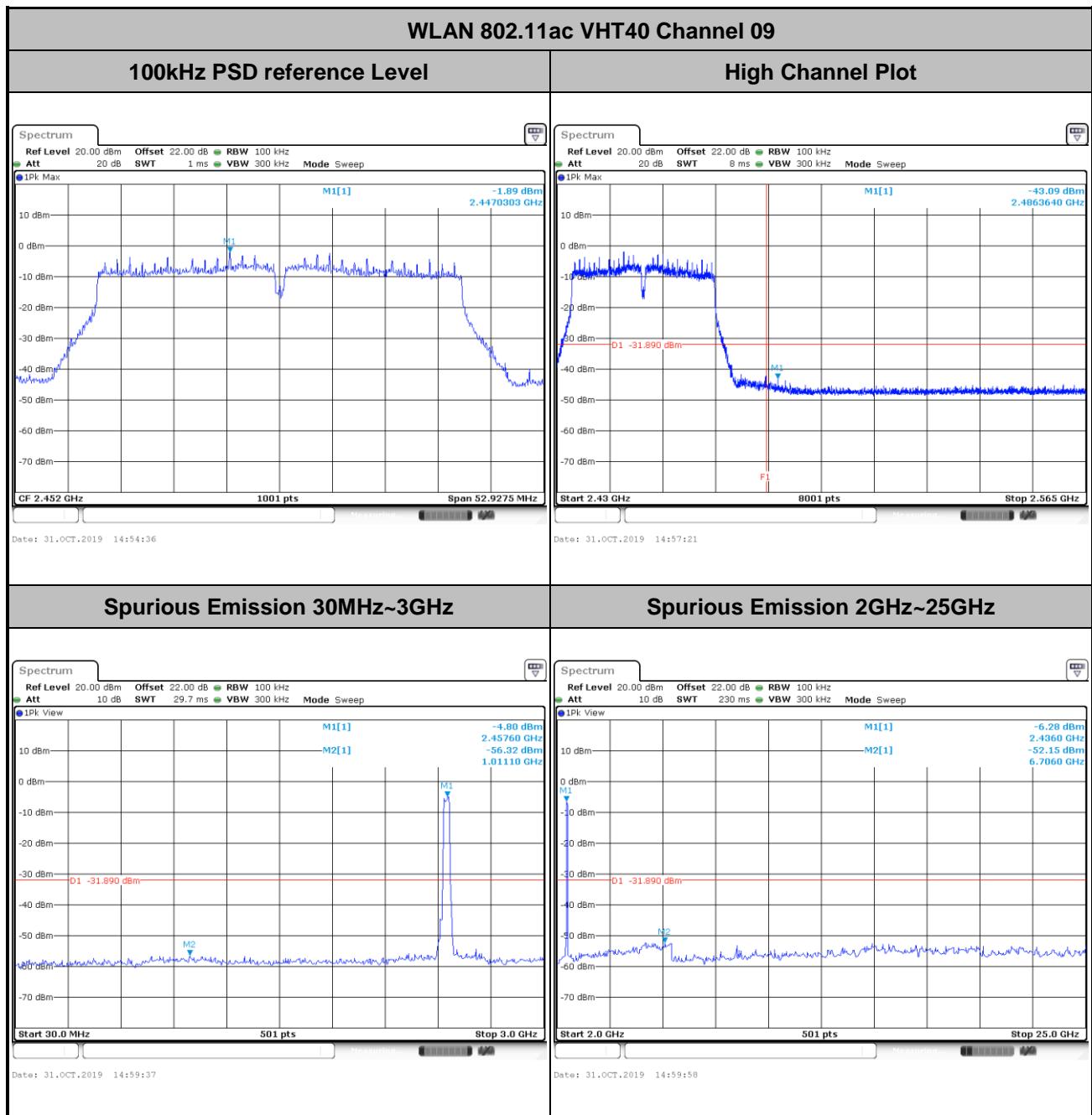








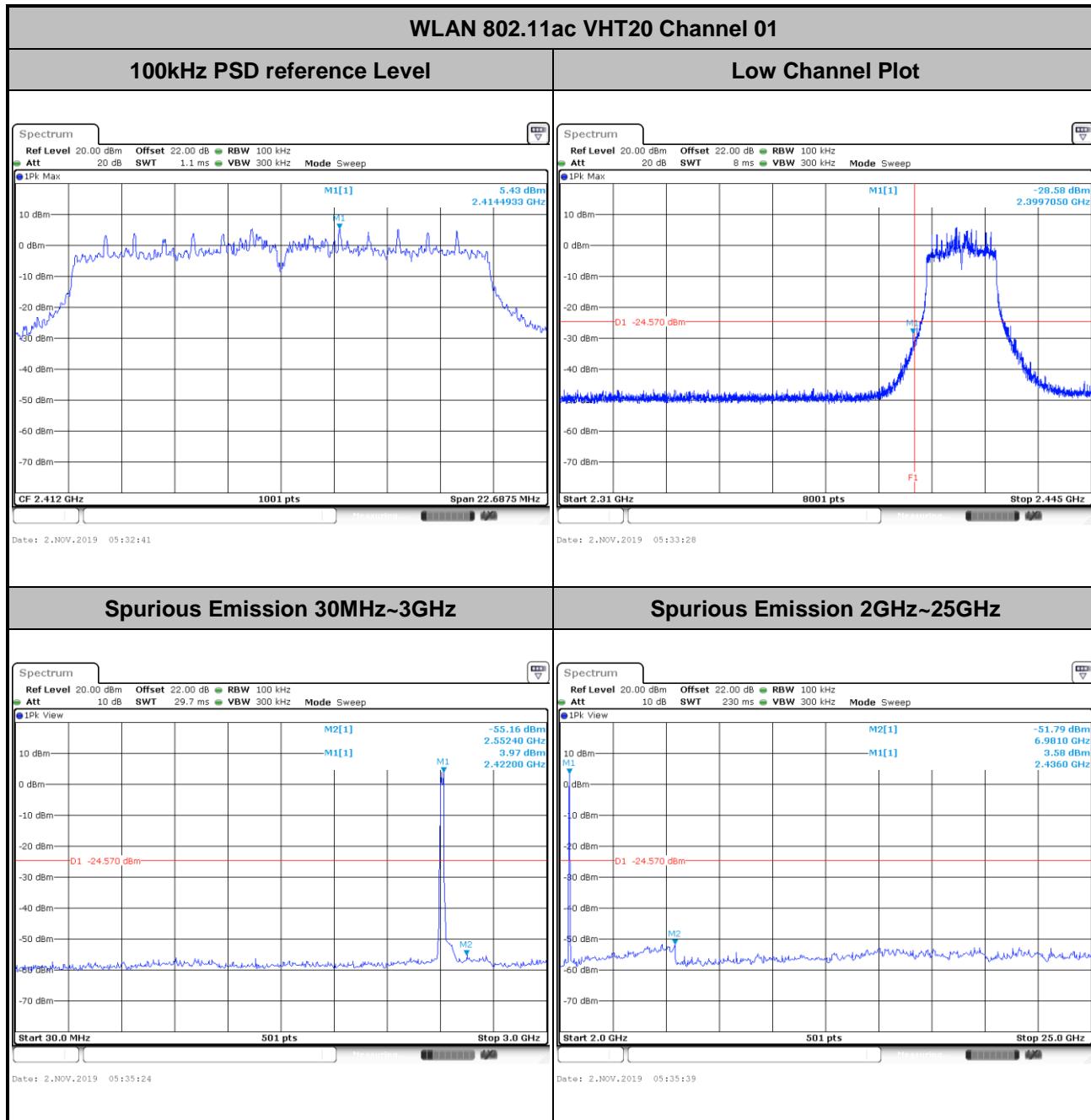


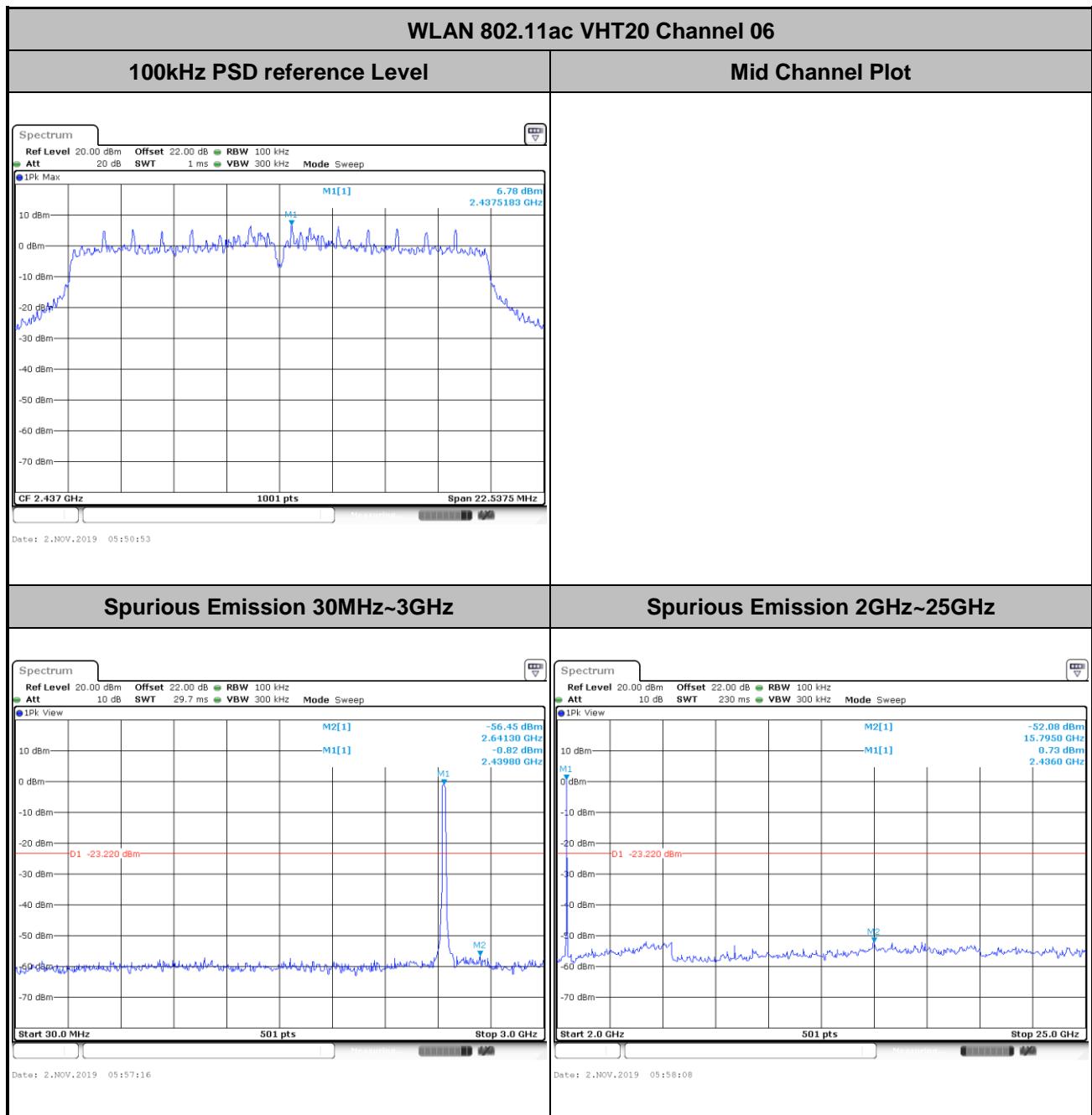


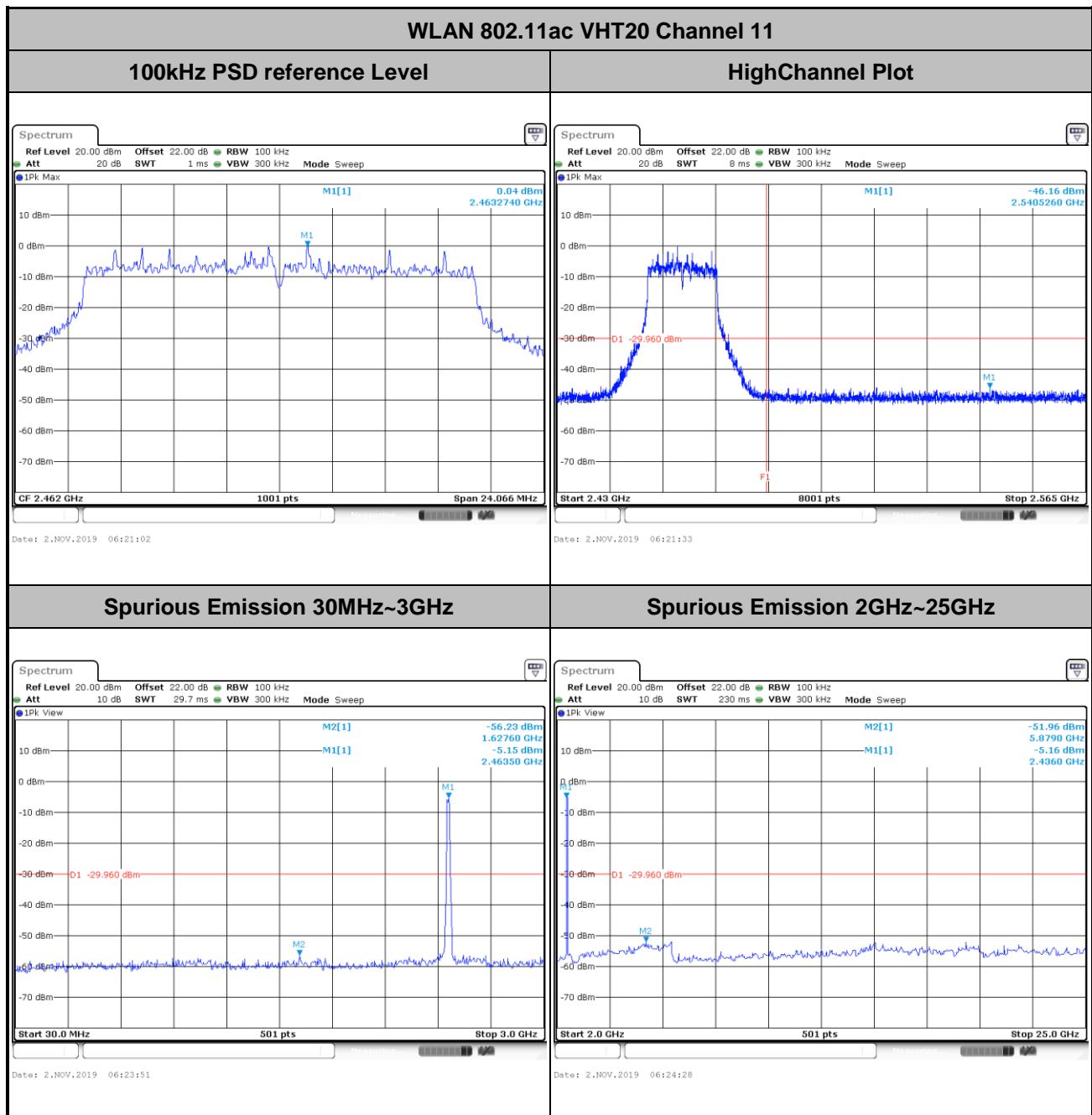


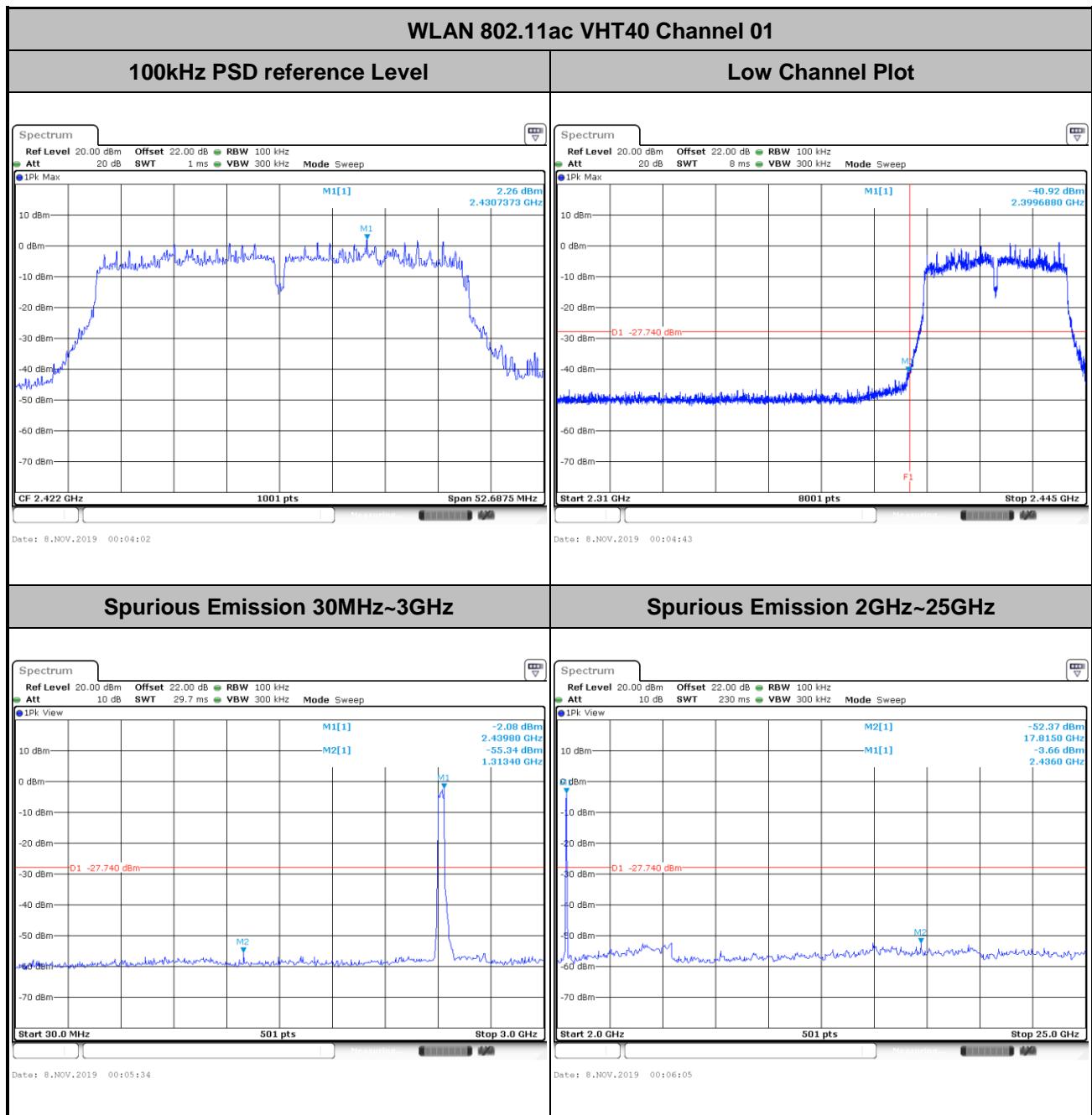
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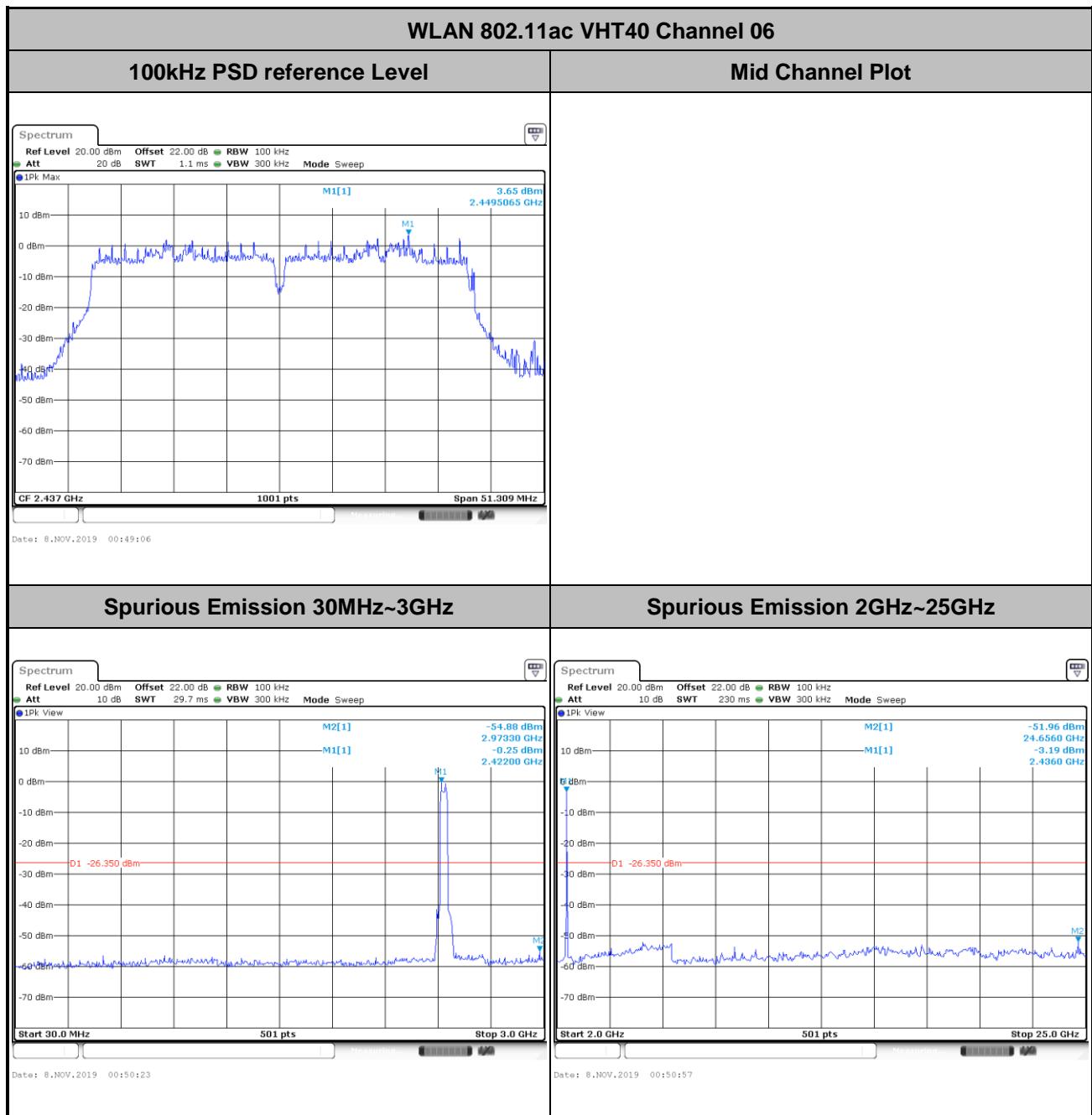
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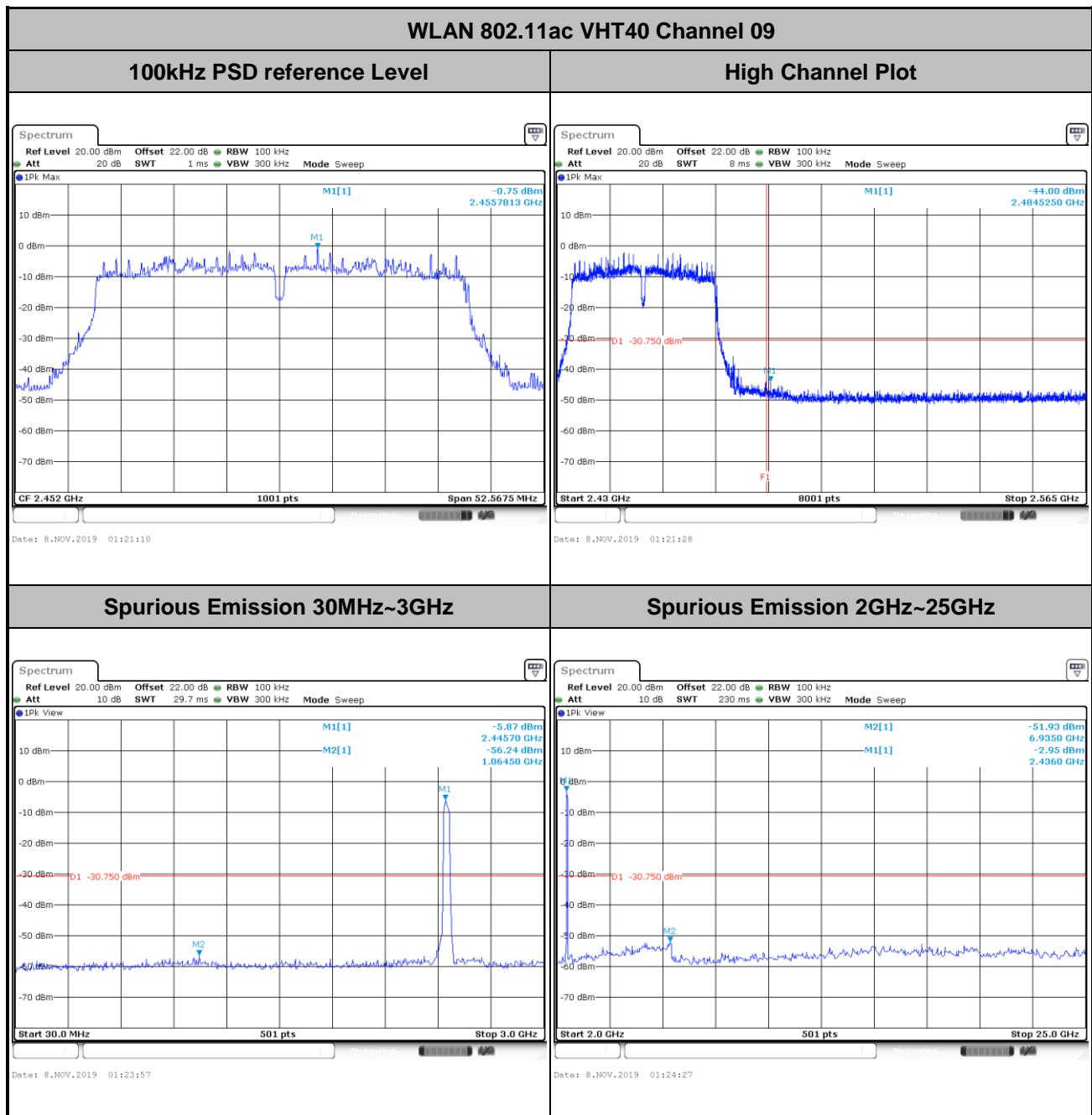






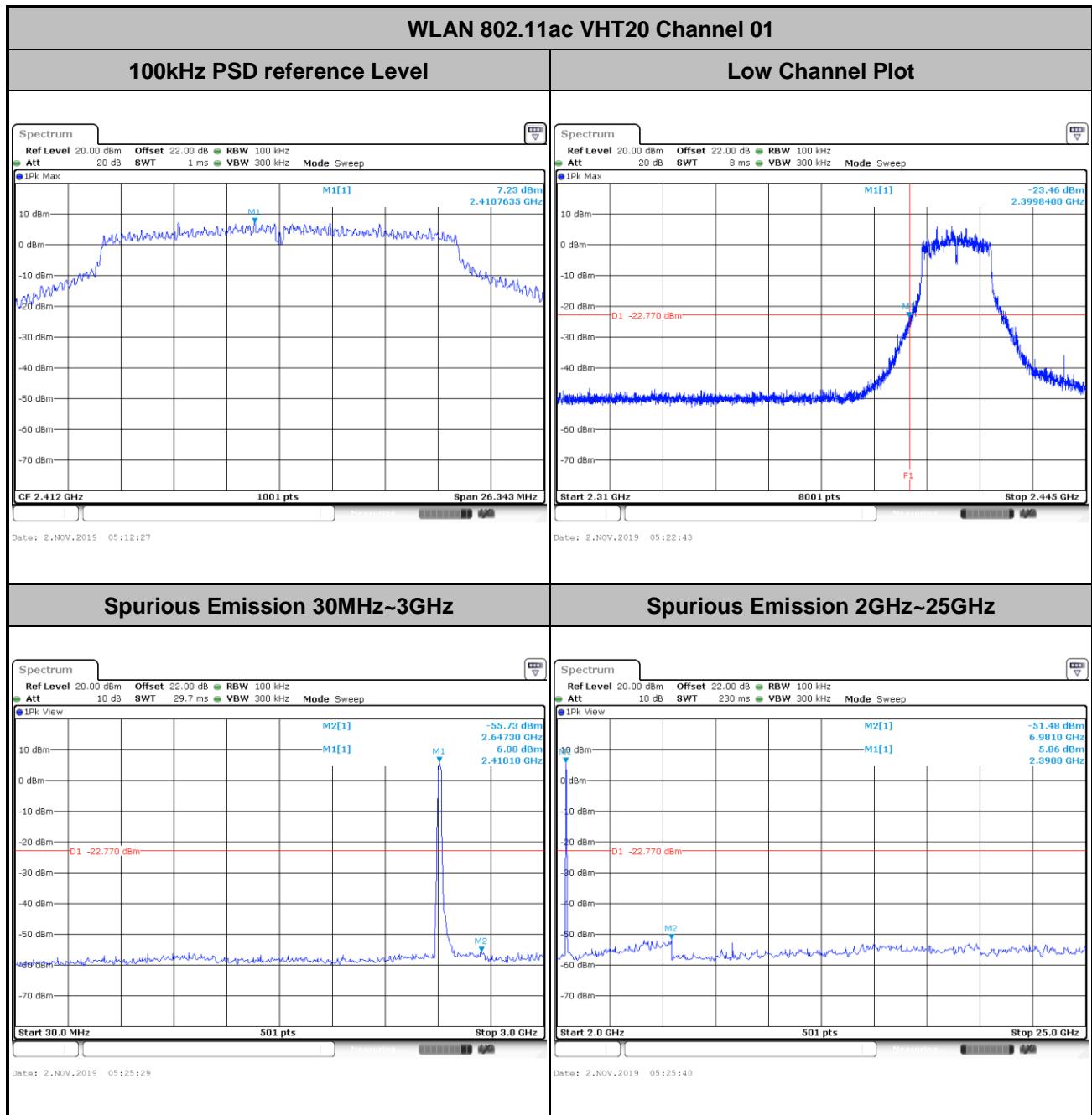


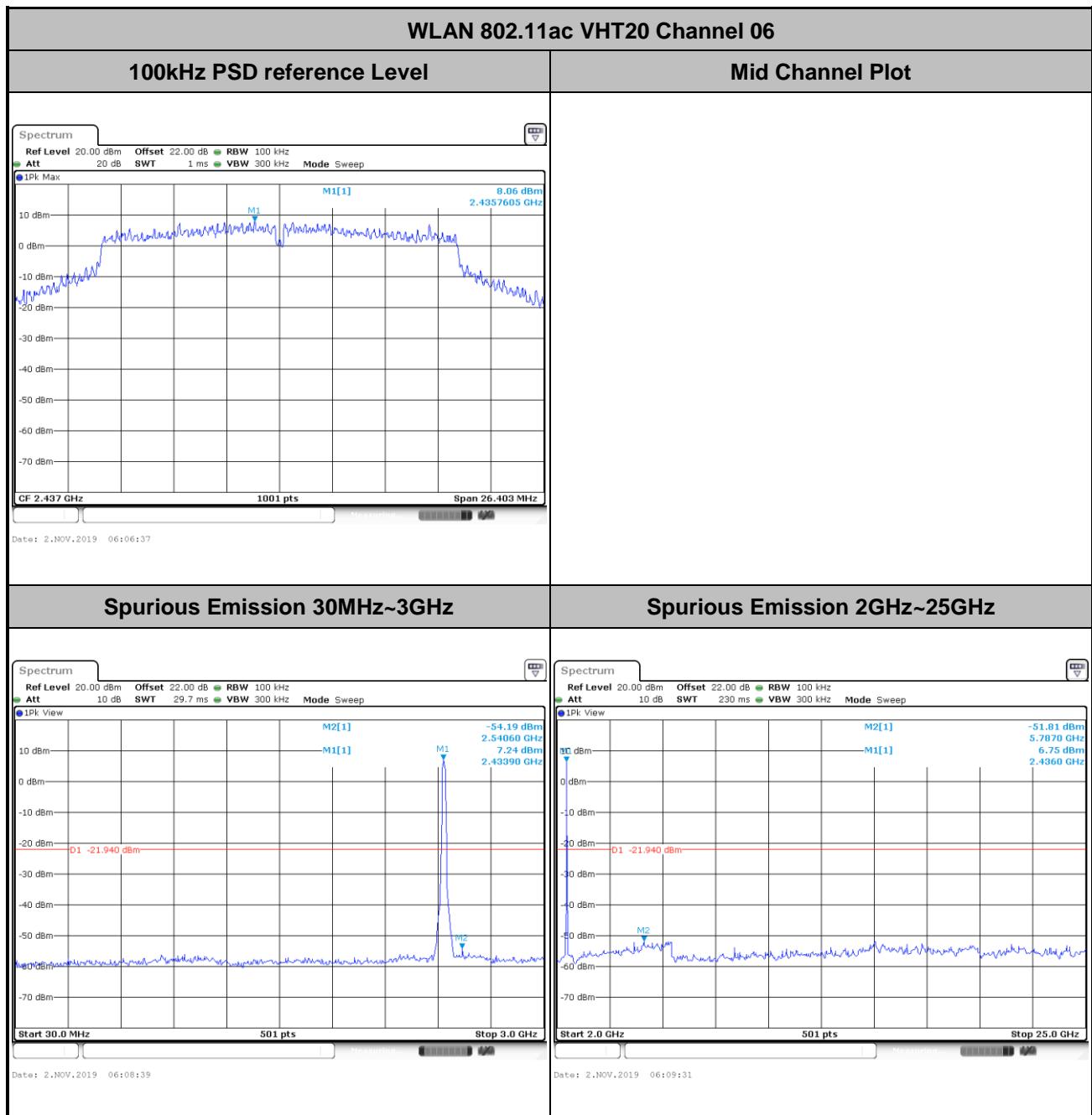


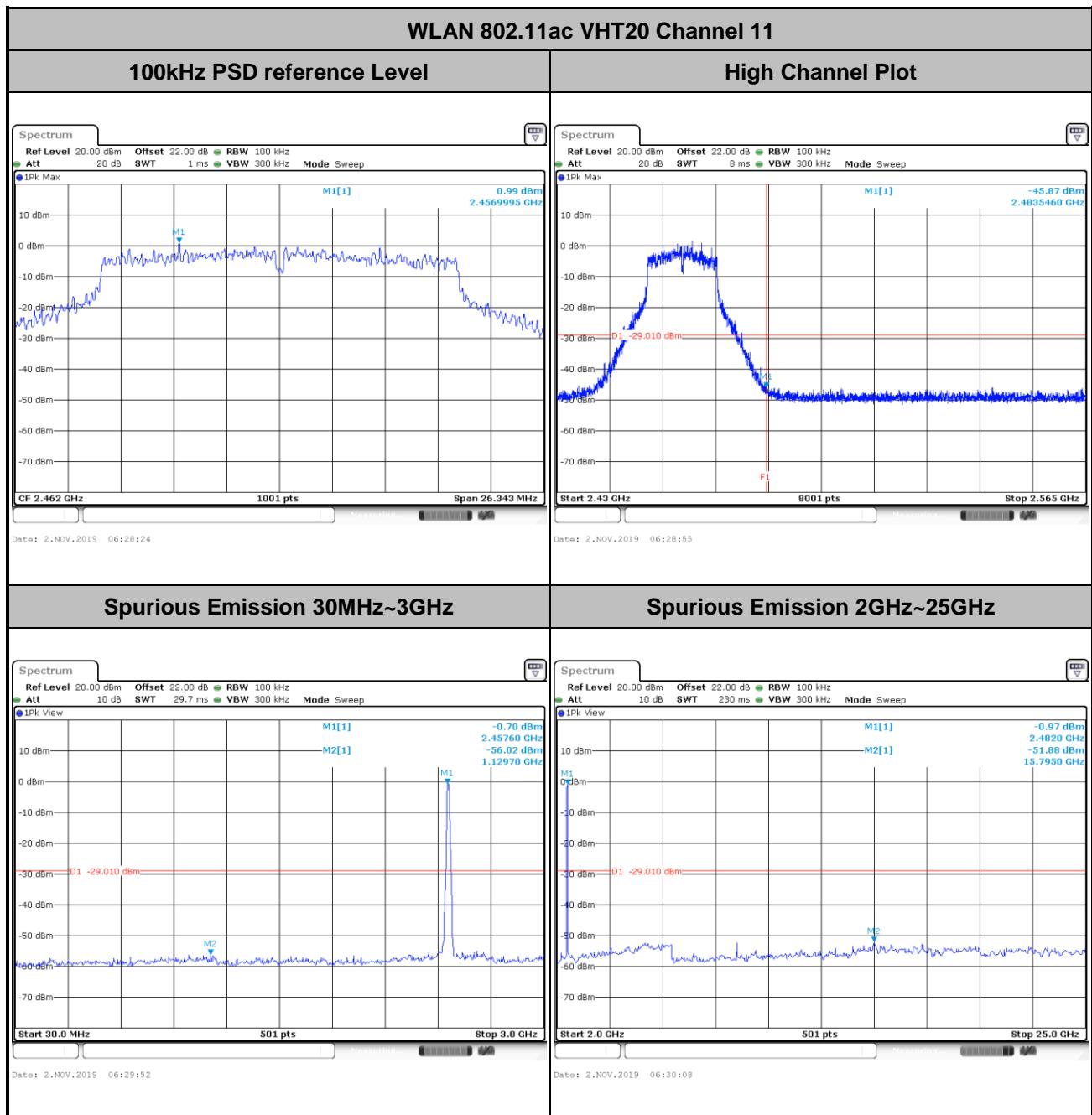


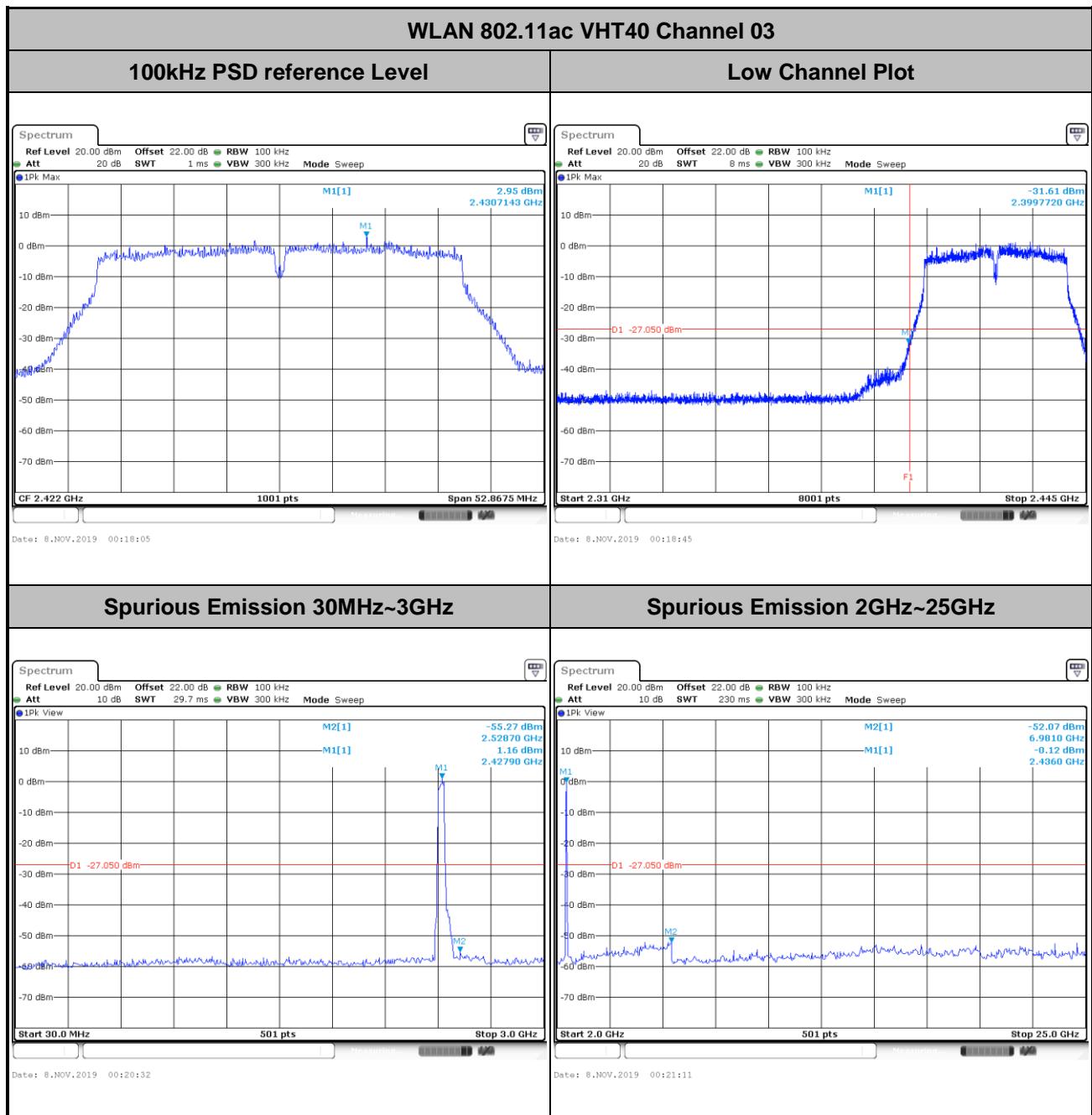


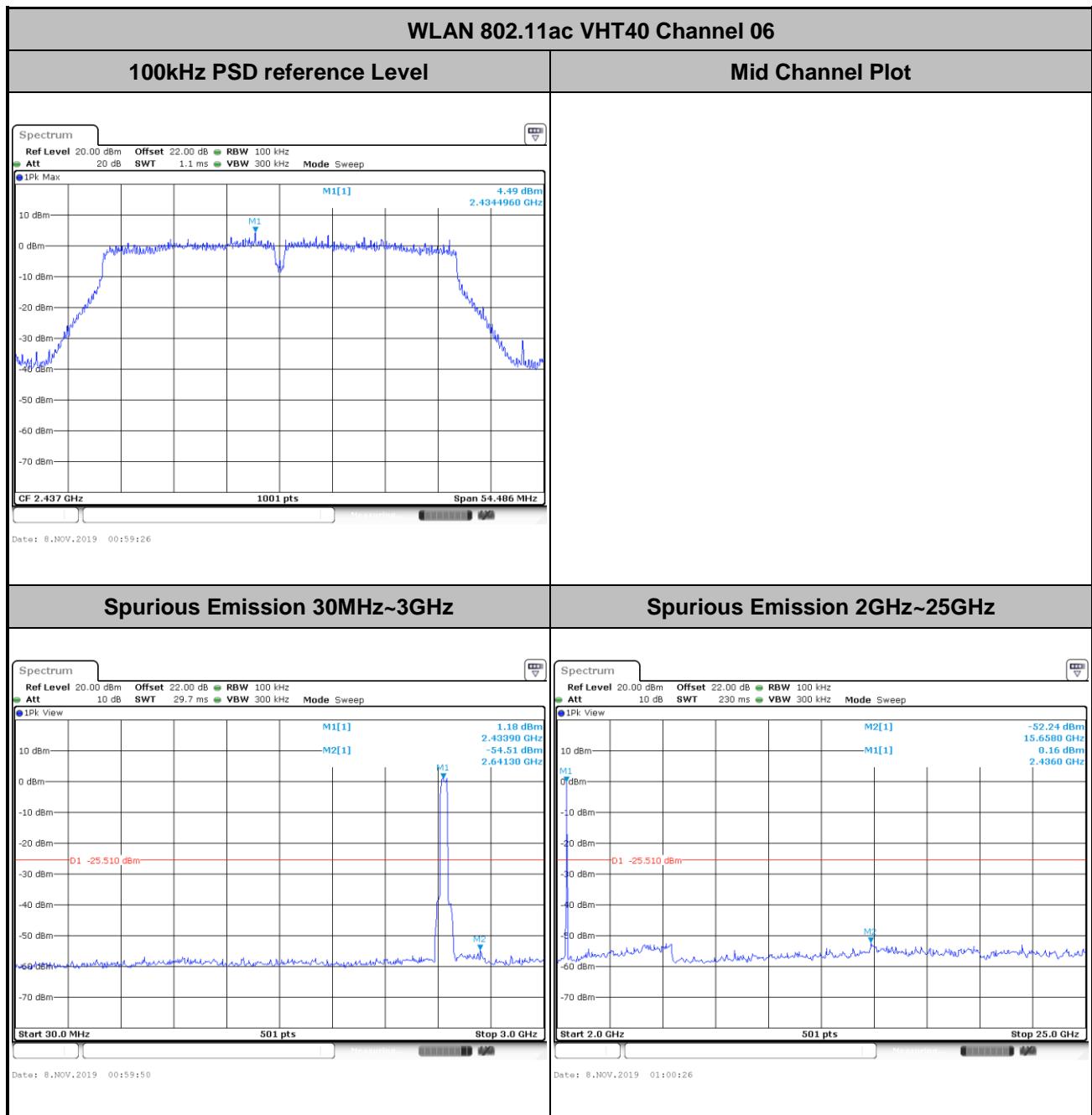
Number of TX = 2, Ant. 2 (Measured)

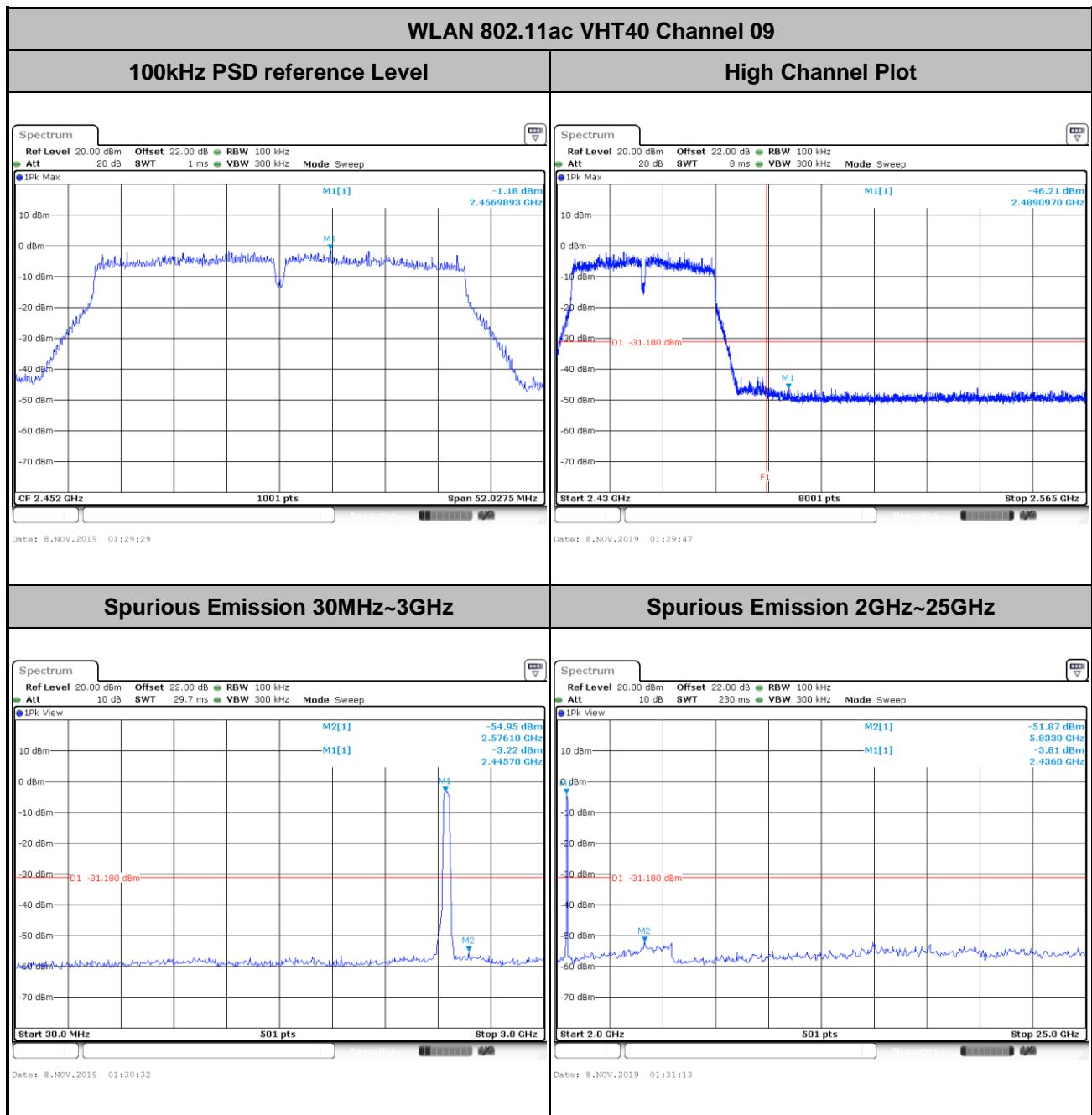














3.5 Radiated Band Edges and Spurious Emission Measurement

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.

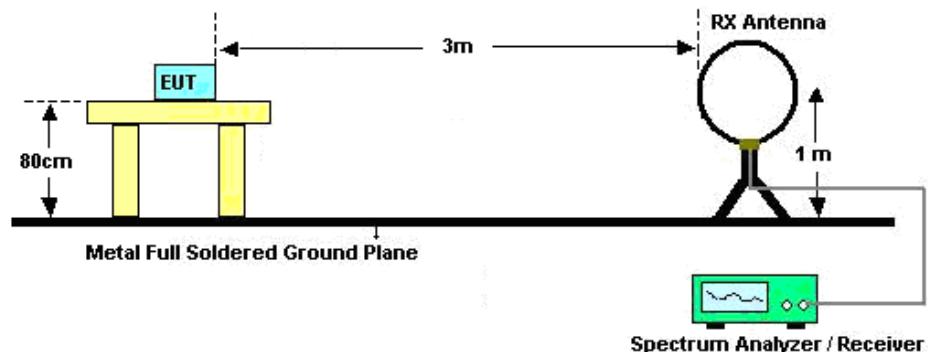


3.5.3 Test Procedures

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.

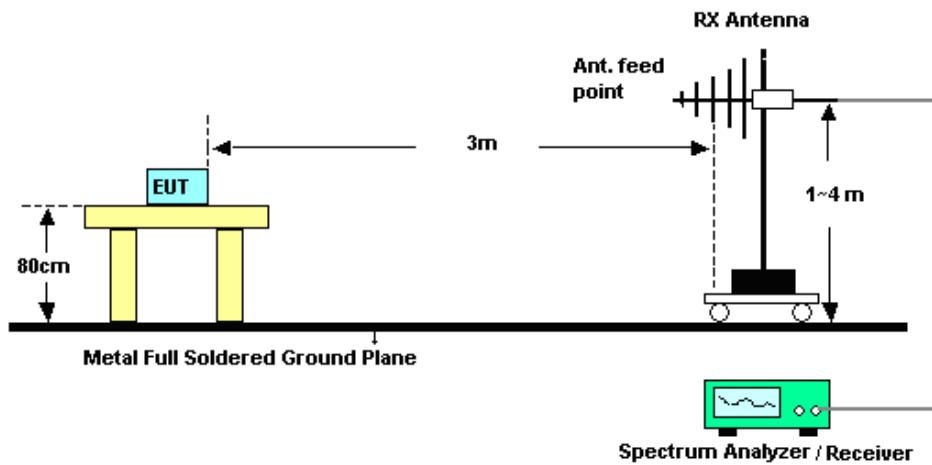
3.5.4 Test Setup

For radiated emissions below 30MHz

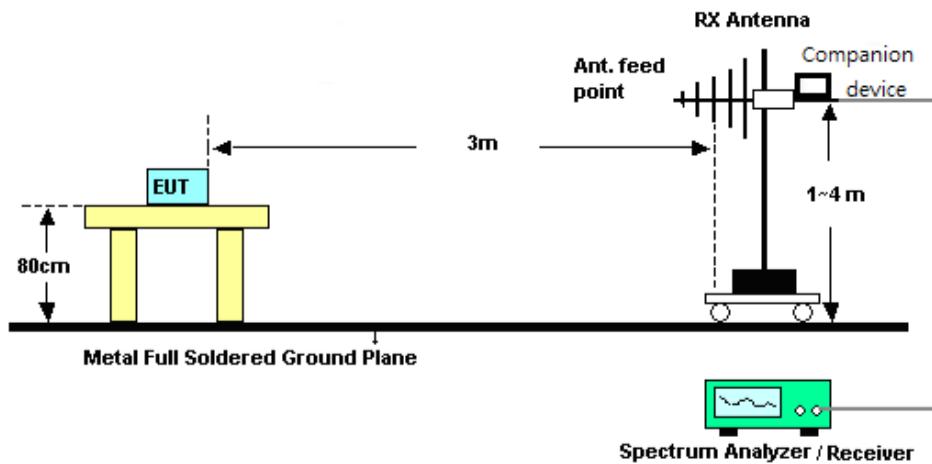


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

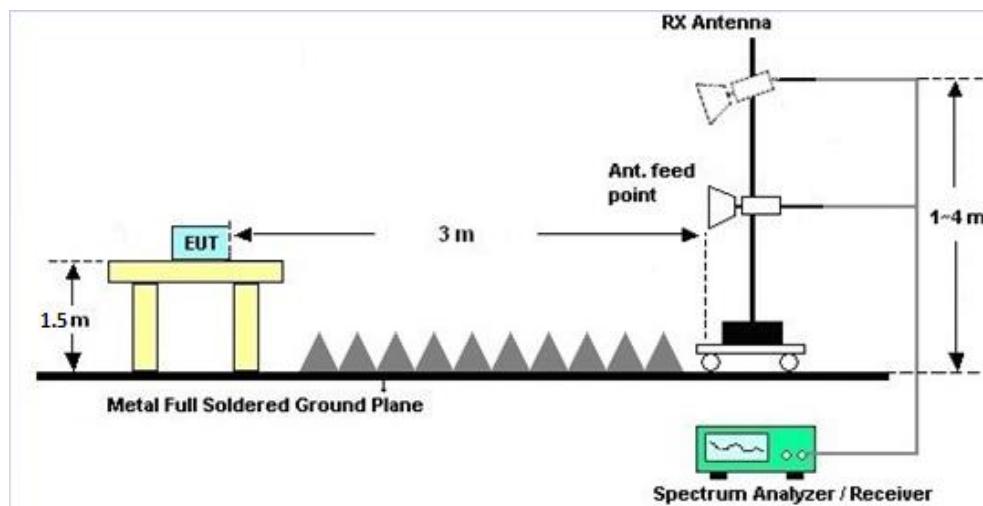


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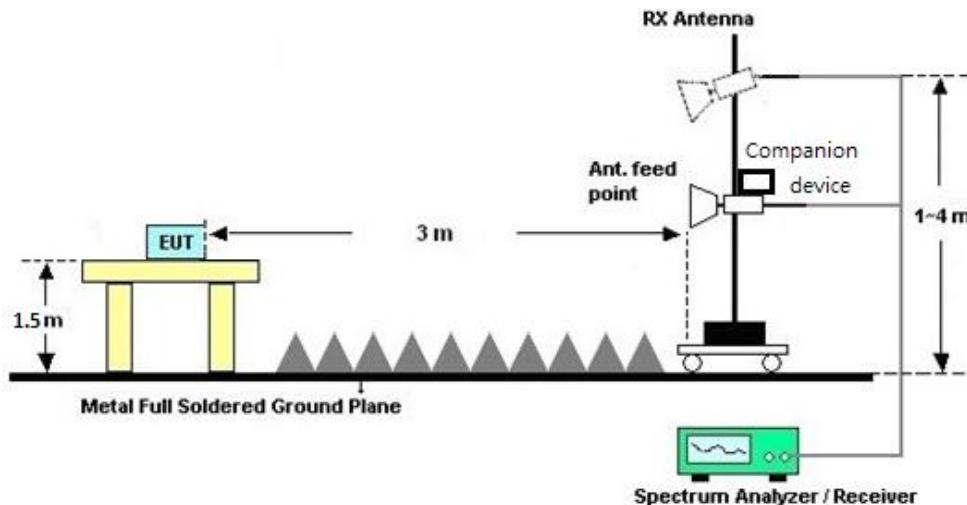


For radiated emissions above 1GHz

<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 B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



3.6 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.

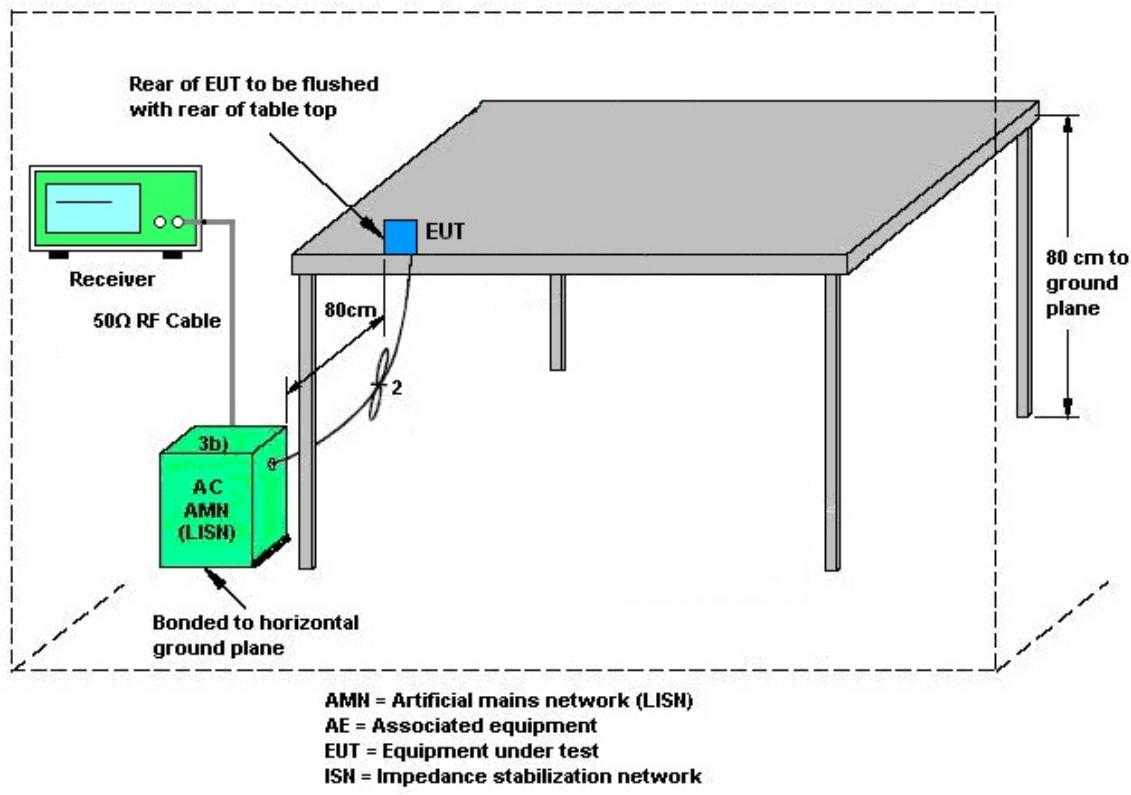
3.6.2 Measuring Instruments

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 A.



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 GANT 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>						
	Ant. 1	Ant. 2	DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.32	3.18	3.32	6.26	0.00	0.26

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

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

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

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 for Power	DG for PSD	Power Limit	PSD Limit
	Ant. 1 (dBi)	Ant. 2 (dBi)	Power (dBi)	PSD (dBi)	Reduction (dB)	Reduction (dB)
2.4 GHz	3.32	3.18	6.26	6.26	0.26	0.26

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
<For CDD Mode>								
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Sep. 10, 2019~Nov. 19, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Jul. 12, 2019	Sep. 10, 2019~Nov. 19, 2019	Jul. 11, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW107090 3	N/A	Dec 19, 2018	Sep. 10, 2019~Nov. 19, 2019	Dec 18, 2019	Conducted (TH05-HY)
<For TXBF Mode>								
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Oct. 17, 2019~Nov. 08, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Oct. 17, 2019~Nov. 08, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW107090 3	N/A	Dec 19, 2018	Oct. 17, 2019~Nov. 08, 2019	Dec 18, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 23, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Sep. 23, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Sep. 23, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Sep. 23, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 23, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Sep. 23, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Sep. 23, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Oct. 12, 2019~Nov. 18, 2019	Jan. 06, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 12, 2019	Oct. 12, 2019~Nov. 18, 2019	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Nov. 09, 2018	Oct. 12, 2019~Nov. 07, 2019	Nov. 08, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-020 37	1GHz ~ 18GHz	Oct. 28, 2019	Nov. 07, 2019~Nov. 18, 2019	Oct. 27, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Dec. 05, 2018	Oct. 12, 2019~Nov. 18, 2019	Dec. 04, 2019	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2019	Oct. 12, 2019~Nov. 18, 2019	Mar. 24, 2020	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A023 75	1GHz~26.5GHz	May 27, 2019	Oct. 12, 2019~Nov. 18, 2019	May 26, 2020	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180 0054002	1GHz~18GHz	Aug. 06, 2019	Oct. 12, 2019~Nov. 18, 2019	Aug. 05, 2020	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA00101800 -30-10P	160111800 02	1GHz~18GHz	Aug. 01, 2019	Oct. 12, 2019~Nov. 18, 2019	Jul. 31, 2020	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Oct. 12, 2019~Nov. 18, 2019	Dec. 05, 2019	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 19, 2019	Oct. 12, 2019~Nov. 18, 2019	Mar. 18, 2020	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN1	1.2 GHz Lowpass	Mar. 22, 2019	Oct. 12, 2019~Nov. 18, 2019	Mar. 21, 2020	Radiation (03CH12-HY)

**FCC RADIO TEST REPORT**

Report No. : FR981238C

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass	Jul. 15, 2019	Oct. 12, 2019~ Nov. 18, 2019	Jul. 14, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 26, 2019	Oct. 12, 2019~ Nov. 18, 2019	Feb. 25, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 26, 2019	Oct. 12, 2019~ Nov. 18, 2019	Feb. 25, 2020	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 12, 2019~ Nov. 18, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 12, 2019~ Nov. 18, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Oct. 12, 2019~ Nov. 18, 2019	N/A	Radiation (03CH12-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	2.20
--	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	5.10
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	5.20
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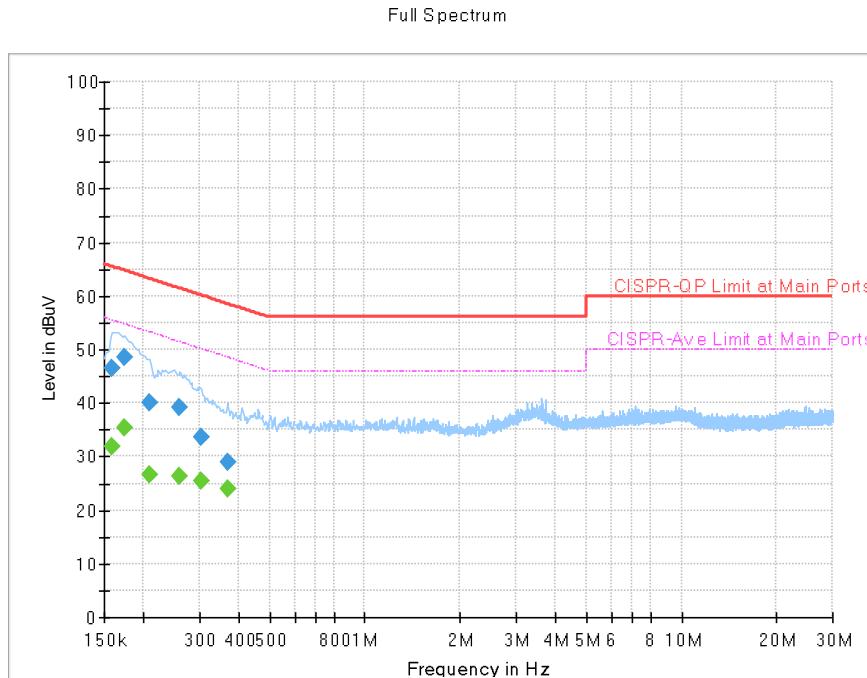
Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	4.70
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Appendix A. AC Conducted Emission Test Results

Test Engineer :	Howard Lin	Temperature :	25.9~26.2°C
Relative Humidity :			41.8~42.7%
Test Voltage :	120Vac / 60Hz	Phase :	Line



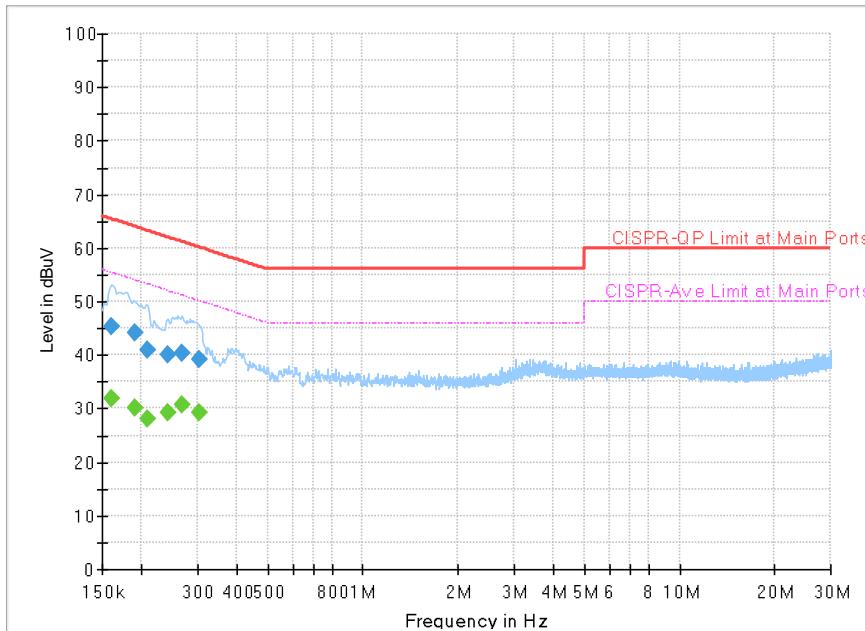
Final Result :

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	46.36	---	65.52	19.16	L1	OFF	19.4
0.159000	---	31.78	55.52	23.74	L1	OFF	19.4
0.174750	48.44	---	64.73	16.29	L1	OFF	19.4
0.174750	---	35.45	54.73	19.28	L1	OFF	19.4
0.208500	40.19	---	63.27	23.08	L1	OFF	19.4
0.208500	---	26.53	53.27	26.74	L1	OFF	19.4
0.260250	39.07	---	61.42	22.35	L1	OFF	19.4
0.260250	---	26.31	51.42	25.11	L1	OFF	19.4
0.305250	33.66	---	60.10	26.44	L1	OFF	19.4
0.305250	---	25.54	50.10	24.56	L1	OFF	19.4
0.368250	28.97	---	58.54	29.57	L1	OFF	19.4
0.368250	---	23.99	48.54	24.55	L1	OFF	19.4



Test Engineer :	Howard Lin	Temperature :	25.9~26.2°C
Test Voltage :	120Vac / 60Hz	Relative Humidity :	41.8~42.7%
Phase :		Phase :	Neutral

Full Spectrum

**Final Result :**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	31.85	55.40	23.55	N	OFF	19.5
0.161250	45.29	---	65.40	20.11	N	OFF	19.5
0.190500	---	30.02	54.02	24.00	N	OFF	19.5
0.190500	44.18	---	64.02	19.84	N	OFF	19.5
0.208500	---	27.95	53.27	25.32	N	OFF	19.5
0.208500	40.81	---	63.27	22.46	N	OFF	19.5
0.242250	---	29.33	52.02	22.69	N	OFF	19.5
0.242250	39.95	---	62.02	22.07	N	OFF	19.5
0.269250	---	30.57	51.14	20.57	N	OFF	19.5
0.269250	40.23	---	61.14	20.91	N	OFF	19.5
0.303000	---	29.11	50.16	21.05	N	OFF	19.5
0.303000	39.08	---	60.16	21.08	N	OFF	19.5



Appendix B. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang, Chuan Chu	Temperature :	23.1 ~ 26.4°C
		Relative Humidity :	51.8 ~ 60.9%

<For CDD Mode>

<For SKU 1>

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.
802.11b CH 01 2412MHz	1	(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2390	57.79	-16.21	74	46.8	27.52	16.63	33.16	152	353	P	H
		2390	52.01	-1.99	54	41.02	27.52	16.63	33.16	152	353	A	H
	*	2412	116.76	-	-	105.81	27.48	16.65	33.18	152	353	P	H
	*	2412	113.66	-	-	102.71	27.48	16.65	33.18	152	353	A	H
													H
		2334.15	55.52	-18.48	74	44.35	27.7	16.56	33.09	110	78	P	V
		2390	46.75	-7.25	54	35.76	27.52	16.63	33.16	110	78	A	V
	*	2412	108.98	-	-	98.03	27.48	16.65	33.18	110	78	P	V
	*	2412	105.83	-	-	94.88	27.48	16.65	33.18	110	78	A	V
													V
802.11b CH 06 2437MHz		2331.42	55.89	-18.11	74	44.71	27.71	16.56	33.09	145	354	P	H
		2389.94	45.6	-8.4	54	34.61	27.52	16.63	33.16	145	354	A	H
	*	2437	117.48	-	-	106.59	27.43	16.67	33.21	145	354	P	H
	*	2437	114.36	-	-	103.47	27.43	16.67	33.21	145	354	A	H
		2485.93	58.26	-15.74	74	47.49	27.33	16.71	33.27	145	354	P	H
		2485.72	51.19	-2.81	54	40.42	27.33	16.71	33.27	145	354	A	H
		2323.3	56.16	-17.84	74	44.93	27.76	16.55	33.08	105	78	P	V
		2311.68	44.73	-9.27	54	33.43	27.83	16.53	33.06	105	78	A	V
	*	2437	110.66	-	-	99.77	27.43	16.67	33.21	105	78	P	V
	*	2437	107.6	-	-	96.71	27.43	16.67	33.21	105	78	A	V
		2484.74	56.08	-17.92	74	45.31	27.33	16.71	33.27	105	78	P	V
		2485.72	46.91	-7.09	54	36.14	27.33	16.71	33.27	105	78	A	V



FCC RADIO TEST REPORT

Report No. : FR981238C

802.11b CH 11 2462MHz	*	2462	117.48	-	-	106.65	27.38	16.69	33.24	146	358	P	H
	*	2462	114.34	-	-	103.51	27.38	16.69	33.24	146	358	A	H
		2487	58.3	-15.7	74	47.53	27.33	16.71	33.27	146	358	P	H
		2486.76	50.33	-3.67	54	39.56	27.33	16.71	33.27	146	358	A	H
													H
	*	2462	111.54	-	-	100.71	27.38	16.69	33.24	101	77	P	V
	*	2462	108.56	-	-	97.73	27.38	16.69	33.24	101	77	A	V
		2486.84	56.54	-17.46	74	45.77	27.33	16.71	33.27	101	77	P	V
		2486.88	46.73	-7.27	54	35.96	27.33	16.71	33.27	101	77	A	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 (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11b CH 01 2412MHz		4824	46.82	-27.18	74	63.2	31.1	10.07	57.55	100	0	P	H
													H
		4824	41.5	-32.5	74	57.88	31.1	10.07	57.55	100	0	P	V
													V
802.11b CH 06 2437MHz		4874	46.67	-27.33	74	62.94	31.1	10.08	57.45	100	0	P	H
		7311	47.39	-26.61	74	55.58	36.58	12.5	57.27	100	0	P	H
													H
		4874	43.31	-30.69	74	59.58	31.1	10.08	57.45	100	0	P	V
		7311	52.52	-21.48	74	60.71	36.58	12.5	57.27	100	76	P	V
		7311	47.46	-6.54	54	55.65	36.58	12.5	57.27	100	76	A	V
													V
802.11b CH 11 2462MHz		4924	47.23	-26.77	74	63.31	31.2	10.07	57.35	100	0	P	H
		7386	47.09	-26.91	74	55.51	36.36	12.58	57.36	100	0	P	H
													H
		4924	41.95	-32.05	74	58.03	31.2	10.07	57.35	100	0	P	V
		7386	48.6	-25.4	74	57.02	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		2389.66	61.12	-12.88	74	50.13	27.52	16.63	33.16	208	3	P	H
		2389.94	52.48	-1.52	54	41.49	27.52	16.63	33.16	208	3	A	H
	*	2412	114.35	-	-	103.4	27.48	16.65	33.18	208	3	P	H
	*	2412	107.05	-	-	96.1	27.48	16.65	33.18	208	3	A	H
													H
		2389.38	57.94	-16.06	74	46.95	27.52	16.63	33.16	110	78	P	V
		2390	48.33	-5.67	54	37.34	27.52	16.63	33.16	110	78	A	V
	*	2412	107.15	-	-	96.2	27.48	16.65	33.18	110	78	P	V
	*	2412	99.82	-	-	88.87	27.48	16.65	33.18	110	78	A	V
													V
802.11g CH 06 2437MHz		2354.52	55.93	-18.07	74	44.87	27.59	16.59	33.12	176	6	P	H
		2389.94	47	-7	54	36.01	27.52	16.63	33.16	176	6	A	H
	*	2437	117.16	-	-	106.27	27.43	16.67	33.21	176	6	P	H
	*	2437	109.78	-	-	98.89	27.43	16.67	33.21	176	6	A	H
		2484.25	62.38	-11.62	74	51.61	27.33	16.71	33.27	176	6	P	H
		2483.62	52.56	-1.44	54	41.79	27.33	16.71	33.27	176	6	A	H
		2314.62	55.2	-18.8	74	43.92	27.81	16.54	33.07	105	79	P	V
		2356.9	45.43	-8.57	54	34.37	27.59	16.59	33.12	105	79	A	V
	*	2437	110.09	-	-	99.2	27.43	16.67	33.21	105	79	P	V
	*	2437	102.62	-	-	91.73	27.43	16.67	33.21	105	79	A	V
		2483.48	58.31	-91.69	150	47.54	27.33	16.71	33.27	105	79	P	V
		2484.04	48.15	-5.85	54	37.38	27.33	16.71	33.27	105	79	A	V



802.11g CH 11 2462MHz	*	2462	106.32	-	-	95.49	27.38	16.69	33.24	100	78	P	V
	*	2462	98.28	-	-	87.45	27.38	16.69	33.24	100	78	A	V
		2485.36	56.48	-17.52	74	45.71	27.33	16.71	33.27	100	78	P	V
		2483.52	47.61	-6.39	54	36.84	27.33	16.71	33.27	100	78	A	V
													H
	*	2462	113.2	-	-	102.37	27.38	16.69	33.24	201	7	P	H
	*	2462	105.35	-	-	94.52	27.38	16.69	33.24	201	7	A	H
		2484.4	62.2	-11.8	74	51.43	27.33	16.71	33.27	201	7	P	H
		2483.52	52.54	-1.46	54	41.77	27.33	16.71	33.27	201	7	A	H
													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 (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		4824	38.5	-35.5	74	54.88	31.1	10.07	57.55	100	0	P	H
													H
		4824	37.27	-36.73	74	53.65	31.1	10.07	57.55	100	0	P	V
													V
802.11g CH 06 2437MHz		4874	43.95	-30.05	74	60.22	31.1	10.08	57.45	100	0	P	H
		7311	47.46	-26.54	74	55.65	36.58	12.5	57.27	100	0	P	H
													H
		4874	40.68	-33.32	74	56.95	31.1	10.08	57.45	100	0	P	V
		7311	48.96	-25.04	74	57.15	36.58	12.5	57.27	100	0	P	V
													V
802.11g CH 11 2462MHz		4924	38.9	-35.1	74	54.98	31.2	10.07	57.35	100	0	P	H
		7386	42.91	-31.09	74	51.33	36.36	12.58	57.36	100	0	P	H
													H
		4924	37.9	-36.1	74	53.98	31.2	10.07	57.35	100	0	P	V
		7386	43.91	-30.09	74	52.33	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac VHT20 CH 01 2412MHz		2390	61.63	-12.37	74	50.64	27.52	16.63	33.16	207	3	P	H
		2390	51.62	-2.38	54	40.63	27.52	16.63	33.16	207	3	A	H
	*	2412	113.99	-	-	103.04	27.48	16.65	33.18	207	3	P	H
	*	2412	106.48	-	-	95.53	27.48	16.65	33.18	207	3	A	H
													H
		2389.905	56.31	-17.69	74	45.32	27.52	16.63	33.16	111	79	P	V
		2390	46.98	-7.02	54	35.99	27.52	16.63	33.16	111	79	A	V
	*	2412	106.51	-	-	95.56	27.48	16.65	33.18	111	79	P	V
	*	2412	98.45	-	-	87.5	27.48	16.65	33.18	111	79	A	V
													V
802.11ac VHT20 CH 06 2437MHz		2342.34	55.84	-18.16	74	44.72	27.65	16.57	33.1	204	4	P	H
		2389.8	46.84	-7.16	54	35.85	27.52	16.63	33.16	204	4	A	H
	*	2437	117.57	-	-	106.68	27.43	16.67	33.21	204	4	P	H
	*	2437	109.63	-	-	98.74	27.43	16.67	33.21	204	4	A	H
		2484.88	61.93	-12.07	74	51.16	27.33	16.71	33.27	204	4	P	H
		2483.5	52.25	-1.75	54	41.48	27.33	16.71	33.27	204	4	A	H
		2314.62	55.27	-18.73	74	43.99	27.81	16.54	33.07	103	78	P	V
		2323.86	45.46	-8.54	54	34.23	27.76	16.55	33.08	103	78	A	V
	*	2437	110.1	-	-	99.21	27.43	16.67	33.21	103	78	P	V
	*	2437	102.06	-	-	91.17	27.43	16.67	33.21	103	78	A	V
		2483.55	57.33	-16.67	74	46.56	27.33	16.71	33.27	103	78	P	V
		2483.5	48.27	-5.73	54	37.5	27.33	16.71	33.27	103	78	A	V



	*	2462	111.37	-	-	100.54	27.38	16.69	33.24	201	6	P	H
	*	2462	103.68	-	-	92.85	27.38	16.69	33.24	201	6	A	H
		2483.88	61.92	-12.08	74	51.15	27.33	16.71	33.27	201	6	P	H
802.11ac		2483.64	52.55	-1.45	54	41.78	27.33	16.71	33.27	201	6	A	H
VHT20													H
CH 11	*	2462	104.1	-	-	93.27	27.38	16.69	33.24	100	79	P	V
2462MHz	*	2462	96.72	-	-	85.89	27.38	16.69	33.24	100	79	A	V
		2483.88	56.96	-17.04	74	46.19	27.33	16.71	33.27	100	79	P	V
		2483.6	47.6	-6.4	54	36.83	27.33	16.71	33.27	100	79	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac		4824	38.42	-35.58	74	54.8	31.1	10.07	57.55	100	0	P	H
VHT20													H
CH 01		4824	37.42	-36.58	74	53.8	31.1	10.07	57.55	100	0	P	V
2412MHz													V
802.11ac		4874	44.92	-29.08	74	61.19	31.1	10.08	57.45	100	0	P	H
		7311	46.66	-27.34	74	54.85	36.58	12.5	57.27	100	0	P	H
VHT20													H
CH 06													H
2437MHz		4874	40.47	-33.53	74	56.74	31.1	10.08	57.45	100	0	P	V
		7311	49.5	-24.5	74	57.69	36.58	12.5	57.27	100	0	P	V
													V
802.11ac		4924	37.13	-36.87	74	53.21	31.2	10.07	57.35	100	0	P	H
		7386	43.1	-30.9	74	51.52	36.36	12.58	57.36	100	0	P	H
VHT20													H
CH 11													H
2462MHz		4924	36.87	-37.13	74	52.95	31.2	10.07	57.35	100	0	P	V
		7386	43.47	-30.53	74	51.89	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac VHT40 CH 03 2422MHz		2389.66	59.35	-14.65	74	48.36	27.52	16.63	33.16	150	3	P	H
		2389.94	52.07	-1.93	54	41.08	27.52	16.63	33.16	150	3	A	H
	*	2422	107.43	-	-	96.51	27.46	16.66	33.2	150	3	P	H
	*	2422	100.17	-	-	89.25	27.46	16.66	33.2	150	3	A	H
		2484.53	56.04	-17.96	74	45.27	27.33	16.71	33.27	150	3	P	H
		2485.51	47.52	-6.48	54	36.75	27.33	16.71	33.27	150	3	A	H
		2389.94	56.84	-17.16	74	45.85	27.52	16.63	33.16	104	79	P	V
		2389.94	47.17	-6.83	54	36.18	27.52	16.63	33.16	104	79	A	V
	*	2422	100.24	-	-	89.32	27.46	16.66	33.2	104	79	P	V
	*	2422	92.01	-	-	81.09	27.46	16.66	33.2	104	79	A	V
802.11ac VHT40 CH 06 2437MHz		2494.61	54.88	-19.12	74	44.13	27.31	16.72	33.28	104	79	P	V
		2484.32	46.21	-7.79	54	35.44	27.33	16.71	33.27	104	79	A	V
		2389.24	55.76	-18.24	74	44.77	27.52	16.63	33.16	205	6	P	H
		2389.94	47.42	-6.58	54	36.43	27.52	16.63	33.16	205	6	A	H
	*	2437	110.39	-	-	99.5	27.43	16.67	33.21	205	6	P	H
	*	2437	102.55	-	-	91.66	27.43	16.67	33.21	205	6	A	H
		2483.62	61.02	-12.98	74	50.25	27.33	16.71	33.27	205	6	P	H
		2483.62	51.5	-2.5	54	40.73	27.33	16.71	33.27	205	6	A	H
		2356.2	56.06	-17.94	74	45	27.59	16.59	33.12	105	78	P	V
		2377.9	46.17	-7.83	54	35.16	27.54	16.61	33.14	105	78	A	V
802.11ac VHT40 CH 06 2437MHz	*	2437	103.92	-	-	93.03	27.43	16.67	33.21	105	78	P	V
	*	2437	95.74	-	-	84.85	27.43	16.67	33.21	105	78	A	V
		2483.5	56.04	-17.96	74	45.27	27.33	16.71	33.27	105	78	P	V
		2483.55	47.74	-6.26	54	36.97	27.33	16.71	33.27	105	78	A	V



		2335.2	55.35	-18.65	74	44.19	27.69	16.56	33.09	175	7	P	H
		2353.68	46.51	-7.49	54	35.45	27.59	16.58	33.11	175	7	A	H
	*	2452	108.43	-	-	97.58	27.4	16.68	33.23	175	7	P	H
	*	2452	100.52	-	-	89.67	27.4	16.68	33.23	175	7	A	H
		2484.88	60.53	-13.47	74	49.76	27.33	16.71	33.27	175	7	P	H
	VHT40	2483.83	52.85	-1.15	54	42.08	27.33	16.71	33.27	175	7	A	H
	CH 09	2353.68	55.93	-18.07	74	44.87	27.59	16.58	33.11	107	87	P	V
	2452MHz	2326.66	46.39	-7.61	54	35.18	27.74	16.55	33.08	107	87	A	V
	*	2452	101.19	-	-	90.34	27.4	16.68	33.23	107	87	P	V
	*	2452	93.54	-	-	82.69	27.4	16.68	33.23	107	87	A	V
		2483.55	56.9	-17.1	74	46.13	27.33	16.71	33.27	107	87	P	V
		2485.44	48.35	-5.65	54	37.58	27.33	16.71	33.27	107	87	A	V
Remark	<ol style="list-style-type: none">1. No other spurious found.2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac VHT40 CH 03 2422MHz		4844	37.07	-36.93	74	53.41	31.1	10.07	57.51	100	0	P	H
		7266	42.56	-31.44	74	50.73	36.6	12.45	57.22	100	0	P	H
													H
		4844	37.56	-36.44	74	53.9	31.1	10.07	57.51	100	0	P	V
		7266	42.61	-31.39	74	50.78	36.6	12.45	57.22	100	0	P	V
													V
802.11ac VHT40 CH 06 2437MHz		4874	37.34	-36.66	74	53.61	31.1	10.08	57.45	100	0	P	H
		7311	44.16	-29.84	74	52.35	36.58	12.5	57.27	100	0	P	H
													H
		4874	36.89	-37.11	74	53.16	31.1	10.08	57.45	100	0	P	V
		7311	44.11	-29.89	74	52.3	36.58	12.5	57.27	100	0	P	V
													V
802.11ac VHT40 CH 09 2452MHz		4904	37.67	-36.33	74	53.87	31.12	10.07	57.39	100	0	P	H
		7356	42.94	-31.06	74	51.24	36.48	12.55	57.33	100	0	P	H
													H
		4904	36.96	-37.04	74	53.16	31.12	10.07	57.39	100	0	P	V
		7356	43.32	-30.68	74	51.62	36.48	12.55	57.33	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (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.
2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2358.195	55.35	-18.65	74	44.3	27.58	16.59	33.12	332	318	P	H
		2390	44.34	-9.66	54	33.35	27.52	16.63	33.16	332	318	A	H
	*	2412	102.39	-	-	91.44	27.48	16.65	33.18	332	318	P	H
	*	2412	99.2	-	-	88.25	27.48	16.65	33.18	332	318	A	H
													H
		2363.13	55.82	-18.18	74	44.78	27.57	16.6	33.13	223	58	P	V
		2390	46.33	-7.67	54	35.34	27.52	16.63	33.16	223	58	A	V
	*	2412	110.76	-	-	99.81	27.48	16.65	33.18	223	58	P	V
	*	2412	107.64	-	-	96.69	27.48	16.65	33.18	223	58	A	V
													V
802.11b CH 06 2437MHz		2321.9	54.42	-19.58	74	43.18	27.77	16.55	33.08	356	329	P	H
		2311.4	44.04	-9.96	54	32.74	27.83	16.53	33.06	356	329	A	H
	*	2437	104.94	-	-	94.05	27.43	16.67	33.21	356	329	P	H
	*	2437	101.78	-	-	90.89	27.43	16.67	33.21	356	329	A	H
		2490.62	54.59	-19.41	74	43.83	27.32	16.72	33.28	356	329	P	H
		2486.21	43.85	-10.15	54	33.08	27.33	16.71	33.27	356	329	A	H
		2359.42	54.71	-19.29	74	43.66	27.58	16.59	33.12	252	41	P	V
		2389.24	44.07	-9.93	54	33.08	27.52	16.63	33.16	252	41	A	V
	*	2437	113	-	-	102.11	27.43	16.67	33.21	252	41	P	V
	*	2437	109.89	-	-	99	27.43	16.67	33.21	252	41	A	V
		2499.79	54.77	-19.23	74	44.04	27.3	16.72	33.29	252	41	P	V
		2484.18	44.54	-9.46	54	33.77	27.33	16.71	33.27	252	41	A	V



802.11b CH 11 2462MHz	*	2462	105.8	-	-	94.97	27.38	16.69	33.24	350	320	P	H
	*	2462	102.6	-	-	91.77	27.38	16.69	33.24	350	320	A	H
		2489.16	55.41	-18.59	74	44.65	27.32	16.72	33.28	350	320	P	H
		2483.52	45.57	-8.43	54	34.8	27.33	16.71	33.27	350	320	A	H
													H
	*	2462	114.63	-	-	103.8	27.38	16.69	33.24	243	52	P	V
	*	2462	111.55	-	-	100.72	27.38	16.69	33.24	243	52	A	V
		2483.56	57.25	-16.75	74	46.48	27.33	16.71	33.27	243	52	P	V
		2483.52	49.63	-4.37	54	38.86	27.33	16.71	33.27	243	52	A	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 (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11b CH 01 2412MHz		4824	53.84	-20.16	74	70.22	31.1	10.07	57.55	198	342	P	H
		4824	50.45	-3.55	54	66.83	31.1	10.07	57.55	198	342	A	H
													H
		4824	52.69	-21.31	74	69.07	31.1	10.07	57.55	100	29	P	V
		4824	49.76	-4.24	54	66.14	31.1	10.07	57.55	100	29	A	V
													V
802.11b CH 06 2437MHz		4874	49.9	-24.1	74	66.17	31.1	10.08	57.45	100	0	P	H
		7311	44.97	-29.03	74	53.16	36.58	12.5	57.27	100	0	P	H
													H
		4874	51.91	-22.09	74	68.18	31.1	10.08	57.45	100	28	P	V
		4874	49.87	-4.13	54	66.14	31.1	10.08	57.45	100	28	A	V
		7311	43.88	-30.12	74	52.07	36.58	12.5	57.27	100	0	P	V
802.11b CH 11 2462MHz		4924	49.23	-24.77	74	65.31	31.2	10.07	57.35	100	0	P	H
		7386	43.78	-30.22	74	52.2	36.36	12.58	57.36	100	0	P	H
													H
		4924	51.44	-22.56	74	67.52	31.2	10.07	57.35	104	29	P	V
		4924	48.99	-5.01	54	65.07	31.2	10.07	57.35	104	29	A	V
		7386	43.58	-30.42	74	52	36.36	12.58	57.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		2390	60.26	-13.74	74	49.27	27.52	16.63	33.16	108	28	P	H
		2390	51.27	-2.73	54	40.28	27.52	16.63	33.16	108	28	A	H
	*	2412	110.42	-	-	99.47	27.48	16.65	33.18	108	28	P	H
	*	2412	103.3	-	-	92.35	27.48	16.65	33.18	108	28	A	H
													H
		2389.485	56.1	-17.9	74	45.11	27.52	16.63	33.16	321	71	P	V
		2390	47.81	-6.19	54	36.82	27.52	16.63	33.16	321	71	A	V
	*	2412	106.39	-	-	95.44	27.48	16.65	33.18	321	71	P	V
	*	2412	98.61	-	-	87.66	27.48	16.65	33.18	321	71	A	V
													V
802.11g CH 06 2437MHz		2389.8	58.52	-15.48	74	47.53	27.52	16.63	33.16	137	35	P	H
		2389.94	50.34	-3.66	54	39.35	27.52	16.63	33.16	137	35	A	H
	*	2437	114.5	-	-	103.61	27.43	16.67	33.21	137	35	P	H
	*	2437	106.95	-	-	96.06	27.43	16.67	33.21	137	35	A	H
		2483.76	58.86	-15.14	74	48.09	27.33	16.71	33.27	137	35	P	H
		2483.62	49.86	-4.14	54	39.09	27.33	16.71	33.27	137	35	A	H
		2380.56	55.41	-18.59	74	44.4	27.54	16.62	33.15	307	91	P	V
		2389.94	46.87	-7.13	54	35.88	27.52	16.63	33.16	307	91	A	V
	*	2437	110.31	-	-	99.42	27.43	16.67	33.21	307	91	P	V
	*	2437	103.25	-	-	92.36	27.43	16.67	33.21	307	91	A	V
		2483.5	56.98	-17.02	74	46.21	27.33	16.71	33.27	307	91	P	V
		2483.55	48.26	-5.74	54	37.49	27.33	16.71	33.27	307	91	A	V



802.11g CH 11 2462MHz	*	2462	110.17	-	-	99.34	27.38	16.69	33.24	191	357	P	H
	*	2462	102.48	-	-	91.65	27.38	16.69	33.24	191	357	A	H
		2484.6	61.34	-12.66	74	50.57	27.33	16.71	33.27	191	357	P	H
		2483.52	52	-2	54	41.23	27.33	16.71	33.27	191	357	A	H
													H
	*	2462	105.05	-	-	94.22	27.38	16.69	33.24	300	95	P	V
	*	2462	97.21	-	-	86.38	27.38	16.69	33.24	300	95	A	V
		2483.72	57.58	-16.42	74	46.81	27.33	16.71	33.27	300	95	P	V
		2483.56	48.14	-5.86	54	37.37	27.33	16.71	33.27	300	95	A	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 (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		4824	41.43	-32.57	74	57.81	31.1	10.07	57.55	100	0	P	H
													H
		4824	42.64	-31.36	74	59.02	31.1	10.07	57.55	100	0	P	V
													V
802.11g CH 06 2437MHz		4874	55.6	-18.4	74	71.87	31.1	10.08	57.45	101	315	P	H
		4874	45.65	-8.35	54	61.92	31.1	10.08	57.45	101	315	A	H
		7311	44.14	-29.86	74	52.33	36.58	12.5	57.27	100	0	P	H
													H
		4874	53.84	-20.16	74	70.11	31.1	10.08	57.45	101	304	P	V
		4874	44.68	-9.32	54	60.95	31.1	10.08	57.45	101	304	A	V
		7311	44.09	-29.91	74	52.28	36.58	12.5	57.27	100	0	P	V
													V
802.11g CH 11 2462MHz		4924	38.3	-35.7	74	54.38	31.2	10.07	57.35	100	0	P	H
		7386	43.22	-30.78	74	51.64	36.36	12.58	57.36	100	0	P	H
													H
		4924	38.71	-35.29	74	54.79	31.2	10.07	57.35	100	0	P	V
		7386	43.1	-30.9	74	51.52	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac VHT20 CH 01 2412MHz		2389.905	59.43	-14.57	74	48.44	27.52	16.63	33.16	108	30	P	H
		2390	51.44	-2.56	54	40.45	27.52	16.63	33.16	108	30	A	H
	*	2412	110.63	-	-	99.68	27.48	16.65	33.18	108	30	P	H
	*	2412	103.08	-	-	92.13	27.48	16.65	33.18	108	30	A	H
													H
		2389.905	56.65	-17.35	74	45.66	27.52	16.63	33.16	320	88	P	V
		2390	47.24	-6.76	54	36.25	27.52	16.63	33.16	320	88	A	V
	*	2412	104.93	-	-	93.98	27.48	16.65	33.18	320	88	P	V
	*	2412	97.71	-	-	86.76	27.48	16.65	33.18	320	88	A	V
													V
802.11ac VHT20 CH 06 2437MHz		2389.8	58.89	-15.11	74	47.9	27.52	16.63	33.16	138	36	P	H
		2389.8	50.75	-3.25	54	39.76	27.52	16.63	33.16	138	36	A	H
	*	2437	114.62	-	-	103.73	27.43	16.67	33.21	138	36	P	H
	*	2437	106.68	-	-	95.79	27.43	16.67	33.21	138	36	A	H
		2483.69	60.12	-13.88	74	49.35	27.33	16.71	33.27	138	36	P	H
		2483.76	50.63	-3.37	54	39.86	27.33	16.71	33.27	138	36	A	H
		2389.52	55.95	-18.05	74	44.96	27.52	16.63	33.16	306	92	P	V
		2389.94	47.16	-6.84	54	36.17	27.52	16.63	33.16	306	92	A	V
	*	2437	110.76	-	-	99.87	27.43	16.67	33.21	306	92	P	V
	*	2437	102.68	-	-	91.79	27.43	16.67	33.21	306	92	A	V
		2483.76	58.53	-15.47	74	47.76	27.33	16.71	33.27	306	92	P	V
		2483.55	48.69	-5.31	54	37.92	27.33	16.71	33.27	306	92	A	V



	*	2462	109.79	-	-	98.96	27.38	16.69	33.24	138	354	P	H
	*	2462	101.75	-	-	90.92	27.38	16.69	33.24	138	354	A	H
		2485.36	60.88	-13.12	74	50.11	27.33	16.71	33.27	138	354	P	H
802.11ac		2483.56	51.72	-2.28	54	40.95	27.33	16.71	33.27	138	354	A	H
VHT20													H
CH 11	*	2462	105.61	-	-	94.78	27.38	16.69	33.24	382	88	P	V
2462MHz	*	2462	97.28	-	-	86.45	27.38	16.69	33.24	382	88	A	V
		2484.08	57.02	-16.98	74	46.25	27.33	16.71	33.27	382	88	P	V
		2483.84	47.51	-6.49	54	36.74	27.33	16.71	33.27	382	88	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac		4824	42.1	-31.9	74	58.48	31.1	10.07	57.55	100	0	P	H
VHT20													H
CH 01		4824	42.61	-31.39	74	58.99	31.1	10.07	57.55	100	0	P	V
2412MHz													V
802.11ac		4874	54.62	-19.38	74	70.89	31.1	10.08	57.45	140	329	P	H
		4874	44.22	-9.78	54	60.49	31.1	10.08	57.45	140	329	A	H
VHT20		7311	44.08	-29.92	74	52.27	36.58	12.5	57.27	100	0	P	H
CH 06		4874	53.22	-20.78	74	69.49	31.1	10.08	57.45	104	309	P	V
2437MHz		4874	44.02	-9.98	54	60.29	31.1	10.08	57.45	104	309	A	V
		7311	45.52	-28.48	74	53.71	36.58	12.5	57.27	100	0	P	V
802.11ac		4924	38.72	-35.28	74	54.8	31.2	10.07	57.35	100	0	P	H
		7386	42.65	-31.35	74	51.07	36.36	12.58	57.36	100	0	P	H
VHT20													H
CH 11		4924	41.29	-32.71	74	57.37	31.2	10.07	57.35	100	0	P	V
2462MHz		7386	43.45	-30.55	74	51.87	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11ac VHT40 CH 03 2422MHz		2389.38	59.44	-14.56	74	48.45	27.52	16.63	33.16	107	28	P	H
		2389.94	52.35	-1.65	54	41.36	27.52	16.63	33.16	107	28	A	H
	*	2422	104.43	-	-	93.51	27.46	16.66	33.2	107	28	P	H
	*	2422	96.79	-	-	85.87	27.46	16.66	33.2	107	28	A	H
		2485.86	55.27	-18.73	74	44.5	27.33	16.71	33.27	107	28	P	H
		2485.44	46.04	-7.96	54	35.27	27.33	16.71	33.27	107	28	A	H
		2389.24	55.64	-18.36	74	44.65	27.52	16.63	33.16	319	87	P	V
		2389.94	47.94	-6.06	54	36.95	27.52	16.63	33.16	319	87	A	V
	*	2422	99.7	-	-	88.78	27.46	16.66	33.2	319	87	P	V
	*	2422	91.8	-	-	80.88	27.46	16.66	33.2	319	87	A	V
802.11ac VHT40 CH 06 2437MHz		2494.89	55.54	-18.46	74	44.79	27.31	16.72	33.28	319	87	P	V
		2483.76	46.07	-7.93	54	35.3	27.33	16.71	33.27	319	87	A	V
		2389.8	58.31	-15.69	74	47.32	27.52	16.63	33.16	137	34	P	H
		2389.94	49.24	-4.76	54	38.25	27.52	16.63	33.16	137	34	A	H
	*	2437	106.43	-	-	95.54	27.43	16.67	33.21	137	34	P	H
	*	2437	98.66	-	-	87.77	27.43	16.67	33.21	137	34	A	H
		2484.25	61.48	-12.52	74	50.71	27.33	16.71	33.27	137	34	P	H
		2483.5	52.6	-1.4	54	41.83	27.33	16.71	33.27	137	34	A	H
		2371.74	54.9	-19.1	74	43.87	27.56	16.61	33.14	305	92	P	V
		2389.66	46.39	-7.61	54	35.4	27.52	16.63	33.16	305	92	A	V
802.11ac VHT40 CH 06 2437MHz	*	2437	102.81	-	-	91.92	27.43	16.67	33.21	305	92	P	V
	*	2437	94.82	-	-	83.93	27.43	16.67	33.21	305	92	A	V
		2484.25	59.42	-14.58	74	48.65	27.33	16.71	33.27	305	92	P	V
		2483.76	50.6	-3.4	54	39.83	27.33	16.71	33.27	305	92	A	V



802.11ac		2311.96	56.14	-17.86	74	44.84	27.83	16.53	33.06	156	33	P	H
		2318.26	46.29	-7.71	54	35.03	27.79	16.54	33.07	156	33	A	H
	*	2452	105.56	-	-	94.71	27.4	16.68	33.23	156	33	P	H
	*	2452	98.43	-	-	87.58	27.4	16.68	33.23	156	33	A	H
		2484.25	62.06	-11.94	74	51.29	27.33	16.71	33.27	156	33	P	H
	VHT40	2483.69	52.68	-1.32	54	41.91	27.33	16.71	33.27	156	33	A	H
CH 09		2334.22	55.05	-18.95	74	43.89	27.69	16.56	33.09	309	92	P	V
2452MHz	2311.82	46.1	-7.9	54	34.8	27.83	16.53	33.06	309	92	A	V	
*	2452	102.96	-	-	92.11	27.4	16.68	33.23	309	92	P	V	
*	2452	94.94	-	-	84.09	27.4	16.68	33.23	309	92	A	V	
Remark													
1. No other spurious found.													
2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 03 2422MHz		4844	38.2	-35.8	74	54.54	31.1	10.07	57.51	100	0	P	H
		7266	43.46	-30.54	74	51.63	36.6	12.45	57.22	100	0	P	H
													H
		4844	37.46	-36.54	74	53.8	31.1	10.07	57.51	100	0	P	V
		7266	43.48	-30.52	74	51.65	36.6	12.45	57.22	100	0	P	V
													V
													V
802.11ac VHT40 CH 06 2437MHz		4874	38.86	-35.14	74	55.13	31.1	10.08	57.45	100	0	P	H
		7311	44.14	-29.86	74	52.33	36.58	12.5	57.27	100	0	P	H
													H
		4874	38.18	-35.82	74	54.45	31.1	10.08	57.45	100	0	P	V
		7311	45.39	-28.61	74	53.58	36.58	12.5	57.27	100	0	P	V
													V
802.11ac VHT40 CH 09 2452MHz		4904	39.03	-34.97	74	55.23	31.12	10.07	57.39	100	0	P	H
		7356	43.06	-30.94	74	51.36	36.48	12.55	57.33	100	0	P	H
													H
		4904	38.87	-35.13	74	55.07	31.12	10.07	57.39	100	0	P	V
		7356	43.2	-30.8	74	51.5	36.48	12.55	57.33	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (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+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	58.06	-15.94	74	47.07	27.52	16.63	33.16	160	359	P	H
		2390	50.64	-3.36	54	39.65	27.52	16.63	33.16	160	359	A	H
	*	2412	116.54	-	-	105.59	27.48	16.65	33.18	160	359	P	H
	*	2412	113.57	-	-	102.62	27.48	16.65	33.18	160	359	A	H
													H
		2313.675	55.46	-18.54	74	44.17	27.82	16.54	33.07	330	335	P	V
		2390	44.47	-9.53	54	33.48	27.52	16.63	33.16	330	335	A	V
	*	2412	107.19	-	-	96.24	27.48	16.65	33.18	330	335	P	V
	*	2412	104.36	-	-	93.41	27.48	16.65	33.18	330	335	A	V
													V
802.11b CH 06 2437MHz		2346.68	54.58	-19.42	74	43.49	27.62	16.58	33.11	204	358	P	H
		2389.94	44.31	-9.69	54	33.32	27.52	16.63	33.16	204	358	A	H
	*	2437	118.18	-	-	107.29	27.43	16.67	33.21	204	358	P	H
	*	2437	115.03	-	-	104.14	27.43	16.67	33.21	204	358	A	H
		2485.09	55.18	-18.82	74	44.41	27.33	16.71	33.27	204	358	P	H
		2484.46	44.88	-9.12	54	34.11	27.33	16.71	33.27	204	358	A	H
		2328.06	55.39	-18.61	74	44.19	27.73	16.55	33.08	367	335	P	V
		2310.7	44.01	-9.99	54	32.7	27.84	16.53	33.06	367	335	A	V
	*	2437	108.5	-	-	97.61	27.43	16.67	33.21	367	335	P	V
	*	2437	105.59	-	-	94.7	27.43	16.67	33.21	367	335	A	V
		2497.27	54.67	-19.33	74	43.93	27.31	16.72	33.29	367	335	P	V
		2488.24	43.83	-10.17	54	33.07	27.32	16.72	33.28	367	335	A	V



802.11b CH 11 2462MHz	*	2462	119.69	-	-	108.86	27.38	16.69	33.24	182	359	P	H
	*	2462	116.11	-	-	105.28	27.38	16.69	33.24	182	359	A	H
		2484.68	57.39	-16.61	74	46.62	27.33	16.71	33.27	182	359	P	H
		2484.92	49.96	-4.04	54	39.19	27.33	16.71	33.27	182	359	A	H
													H
	*	2462	109.5	-	-	98.67	27.38	16.69	33.24	360	338	P	V
	*	2462	106.59	-	-	95.76	27.38	16.69	33.24	360	338	A	V
		2494.48	55.2	-18.8	74	44.45	27.31	16.72	33.28	360	338	P	V
		2484.68	44.62	-9.38	54	33.85	27.33	16.71	33.27	360	338	A	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+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11b CH 01 2412MHz		4824	53.9	-20.1	74	70.28	31.1	10.07	57.55	283	38	P	H
		4824	50.36	-3.64	54	66.74	31.1	10.07	57.55	283	38	A	H
													H
		4824	51.9	-22.1	74	68.28	31.1	10.07	57.55	101	0	P	V
		4824	48.44	-5.56	54	64.82	31.1	10.07	57.55	101	0	A	V
													V
802.11b CH 06 2437MHz		4874	45.23	-28.77	74	61.5	31.1	10.08	57.45	100	0	P	H
		7311	45.49	-28.51	74	53.68	36.58	12.5	57.27	100	0	P	H
													H
		4874	44.04	-29.96	74	60.31	31.1	10.08	57.45	100	0	P	V
		7311	44.11	-29.89	74	52.3	36.58	12.5	57.27	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	48.8	-25.2	74	64.88	31.2	10.07	57.35	100	0	P	H
		7386	43.9	-30.1	74	52.32	36.36	12.58	57.36	100	0	P	H
													H
		4924	48.13	-25.87	74	64.21	31.2	10.07	57.35	100	0	P	V
		7386	43.88	-30.12	74	52.3	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		2389.485	60.07	-13.93	74	49.08	27.52	16.63	33.16	150	3	P	H
		2390	50.93	-3.07	54	39.94	27.52	16.63	33.16	150	3	A	H
	*	2412	115.22	-	-	104.27	27.48	16.65	33.18	150	3	P	H
	*	2412	107.82	-	-	96.87	27.48	16.65	33.18	150	3	A	H
													H
		2388.225	55.86	-18.14	74	44.87	27.52	16.63	33.16	110	92	P	V
		2389.485	46.2	-7.8	54	35.21	27.52	16.63	33.16	110	92	A	V
	*	2412	107.98	-	-	97.03	27.48	16.65	33.18	110	92	P	V
	*	2412	100.73	-	-	89.78	27.48	16.65	33.18	110	92	A	V
													V
802.11g CH 06 2437MHz		2389.94	56.69	-17.31	74	45.7	27.52	16.63	33.16	172	4	P	H
		2389.94	47.3	-6.7	54	36.31	27.52	16.63	33.16	172	4	A	H
	*	2437	119	-	-	108.11	27.43	16.67	33.21	172	4	P	H
	*	2437	111.43	-	-	100.54	27.43	16.67	33.21	172	4	A	H
		2484.72	61.43	-12.57	74	50.66	27.33	16.71	33.27	172	4	P	H
		2483.64	52.47	-1.53	54	41.7	27.33	16.71	33.27	172	4	A	H
		2389.94	56.04	-17.96	74	45.05	27.52	16.63	33.16	100	79	P	V
		2389.94	45.45	-8.55	54	34.46	27.52	16.63	33.16	100	79	A	V
	*	2437	111.32	-	-	100.43	27.43	16.67	33.21	100	79	P	V
	*	2437	103.77	-	-	92.88	27.43	16.67	33.21	100	79	A	V
		2484.6	56.19	-17.81	74	45.42	27.33	16.71	33.27	100	79	P	V
		2485.68	46.92	-7.08	54	36.15	27.33	16.71	33.27	100	79	A	V



FCC RADIO TEST REPORT

Report No. : FR981238C

802.11g CH 11 2462MHz	*	2462	113.91	-	-	103.08	27.38	16.69	33.24	201	4	P	H
	*	2462	106.28	-	-	95.45	27.38	16.69	33.24	201	4	A	H
		2484.68	64.18	-9.82	74	53.41	27.33	16.71	33.27	201	4	P	H
		2484	52.33	-1.67	54	41.56	27.33	16.71	33.27	201	4	A	H
													H
	*	2462	106.76	-	-	95.93	27.38	16.69	33.24	101	90	P	V
	*	2462	99.41	-	-	88.58	27.38	16.69	33.24	101	90	A	V
		2483.6	57.85	-16.15	74	47.08	27.33	16.71	33.27	101	90	P	V
		2483.52	47.52	-6.48	54	36.75	27.33	16.71	33.27	101	90	A	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+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol.
802.11g CH 01 2412MHz		4824	42.67	-31.33	74	59.05	31.1	10.07	57.55	100	0	P	H
													H
		4824	39.54	-34.46	74	55.92	31.1	10.07	57.55	100	0	P	V
													V
802.11g CH 06 2437MHz		4874	45.57	-28.43	74	61.84	31.1	10.08	57.45	100	0	P	H
		7311	44.21	-29.79	74	52.4	36.58	12.5	57.27	100	0	P	H
													H
		4874	43.89	-30.11	74	60.16	31.1	10.08	57.45	100	0	P	V
		7311	46.07	-27.93	74	54.26	36.58	12.5	57.27	100	0	P	V
													V
802.11g CH 11 2462MHz		4924	38.73	-35.27	74	54.81	31.2	10.07	57.35	100	0	P	H
		7386	43.27	-30.73	74	51.69	36.36	12.58	57.36	100	0	P	H
													H
		4924	38.4	-35.6	74	54.48	31.2	10.07	57.35	100	0	P	V
		7386	42.97	-31.03	74	51.39	36.36	12.58	57.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												