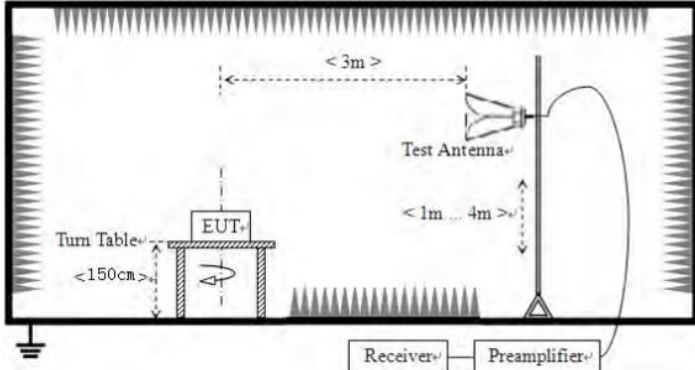


Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205, RSS-Gen §8.9 §8.10				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test results:	Pass				

Measurement data:

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	67.39	27.40	3.43	45.40	52.82	74.00	-21.18	Horizontal
2390.00	72.49	27.10	3.43	45.40	57.62	74.00	-16.38	Horizontal
2310.00	67.19	27.40	3.43	45.40	52.62	74.00	-21.38	Vertical
2390.00	72.96	27.10	3.43	45.40	58.09	74.00	-15.91	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	53.48	27.40	3.43	45.40	38.91	54.00	-15.09	Horizontal
2390.00	58.78	27.10	3.43	45.40	43.91	54.00	-10.09	Horizontal
2310.00	54.30	27.40	3.43	45.40	39.73	54.00	-14.27	Vertical
2390.00	59.50	27.10	3.43	45.40	44.63	54.00	-9.37	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	68.80	27.80	3.56	45.40	54.76	74.00	-19.24	Horizontal
2500.00	64.95	27.80	3.56	45.40	50.91	74.00	-23.09	Horizontal
2483.50	69.09	27.80	3.56	45.40	55.05	74.00	-18.95	Vertical
2500.00	64.27	27.80	3.56	45.40	50.23	74.00	-23.77	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.51	27.80	3.56	45.40	42.47	54.00	-11.53	Horizontal
2500.00	52.36	27.80	3.56	45.40	38.32	54.00	-15.68	Horizontal
2483.50	56.25	27.80	3.56	45.40	42.21	54.00	-11.79	Vertical
2500.00	52.98	27.80	3.56	45.40	38.94	54.00	-15.06	Vertical

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	67.20	27.40	3.43	45.40	52.63	74.00	-21.37	Horizontal
2390.00	74.01	27.10	3.43	45.40	59.14	74.00	-14.86	Horizontal
2310.00	67.26	27.40	3.43	45.40	52.69	74.00	-21.31	Vertical
2390.00	74.65	27.10	3.43	45.40	59.78	74.00	-14.22	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	53.39	27.40	3.43	45.40	38.82	54.00	-15.18	Horizontal
2390.00	58.00	27.10	3.43	45.40	43.13	54.00	-10.87	Horizontal
2310.00	52.78	27.40	3.43	45.40	38.21	54.00	-15.79	Vertical
2390.00	58.62	27.10	3.43	45.40	43.75	54.00	-10.25	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	72.20	27.80	3.56	45.40	58.16	74.00	-15.84	Horizontal
2500.00	67.60	27.80	3.56	45.40	53.56	74.00	-20.44	Horizontal
2483.50	71.73	27.80	3.56	45.40	57.69	74.00	-16.31	Vertical
2500.00	66.84	27.80	3.56	45.40	52.80	74.00	-21.20	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	57.43	27.80	3.56	45.40	43.39	54.00	-10.61	Horizontal
2500.00	53.94	27.80	3.56	45.40	39.90	54.00	-14.10	Horizontal
2483.50	56.90	27.80	3.56	45.40	42.86	54.00	-11.14	Vertical
2500.00	53.58	27.80	3.56	45.40	39.54	54.00	-14.46	Vertical

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	68.09	27.40	3.43	45.40	53.52	74.00	-20.48	Horizontal
2390.00	72.79	27.10	3.43	45.40	57.92	74.00	-16.08	Horizontal
2310.00	69.20	27.40	3.43	45.40	54.63	74.00	-19.37	Vertical
2390.00	74.82	27.10	3.43	45.40	59.95	74.00	-14.05	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	55.46	27.40	3.43	45.40	40.89	54.00	-13.11	Horizontal
2390.00	59.13	27.10	3.43	45.40	44.26	54.00	-9.74	Horizontal
2310.00	55.14	27.40	3.43	45.40	40.57	54.00	-13.43	Vertical
2390.00	59.86	27.10	3.43	45.40	44.99	54.00	-9.01	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	72.67	27.80	3.56	45.40	58.63	74.00	-15.37	Horizontal
2500.00	68.51	27.80	3.56	45.40	54.47	74.00	-19.53	Horizontal
2483.50	72.43	27.80	3.56	45.40	58.39	74.00	-15.61	Vertical
2500.00	67.85	27.80	3.56	45.40	53.81	74.00	-20.19	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	57.08	27.80	3.56	45.40	43.04	54.00	-10.96	Horizontal
2500.00	53.64	27.80	3.56	45.40	39.60	54.00	-14.40	Horizontal
2483.50	58.04	27.80	3.56	45.40	44.00	54.00	-10.00	Vertical
2500.00	53.40	27.80	3.56	45.40	39.36	54.00	-14.64	Vertical

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	67.63	27.40	3.43	45.40	53.06	74.00	-20.94	Horizontal
2390.00	71.52	27.10	3.43	45.40	56.65	74.00	-17.35	Horizontal
2310.00	67.40	27.40	3.43	45.40	52.83	74.00	-21.17	Vertical
2390.00	70.95	27.10	3.43	45.40	56.08	74.00	-17.92	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	54.96	27.40	3.43	45.40	40.39	54.00	-13.61	Horizontal
2390.00	58.77	27.10	3.43	45.40	43.90	54.00	-10.10	Horizontal
2310.00	55.70	27.40	3.43	45.40	41.13	54.00	-12.87	Vertical
2390.00	59.15	27.10	3.43	45.40	44.28	54.00	-9.72	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	72.40	27.80	3.56	45.40	58.36	74.00	-15.64	Horizontal
2500.00	68.11	27.80	3.56	45.40	54.07	74.00	-19.93	Horizontal
2483.50	73.24	27.80	3.56	45.40	59.20	74.00	-14.80	Vertical
2500.00	68.82	27.80	3.56	45.40	54.78	74.00	-19.22	Vertical

Average value:

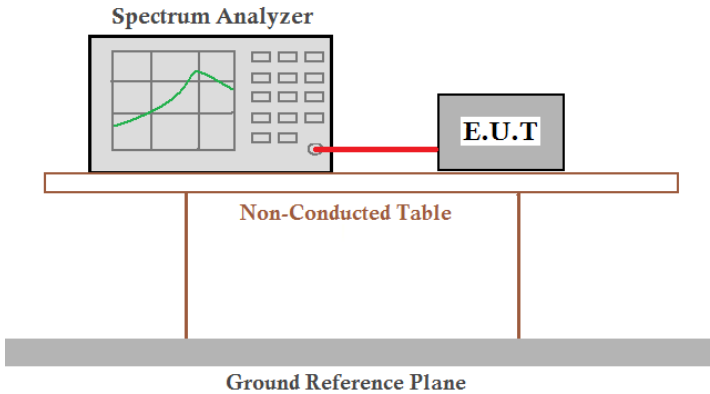
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	58.04	27.80	3.56	45.40	44.00	54.00	-10.00	Horizontal
2500.00	53.53	27.80	3.56	45.40	39.49	54.00	-14.51	Horizontal
2483.50	56.95	27.80	3.56	45.40	42.91	54.00	-11.09	Vertical
2500.00	53.46	27.80	3.56	45.40	39.42	54.00	-14.58	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously.

4.7 Spurious Emission

Conducted Emission Method

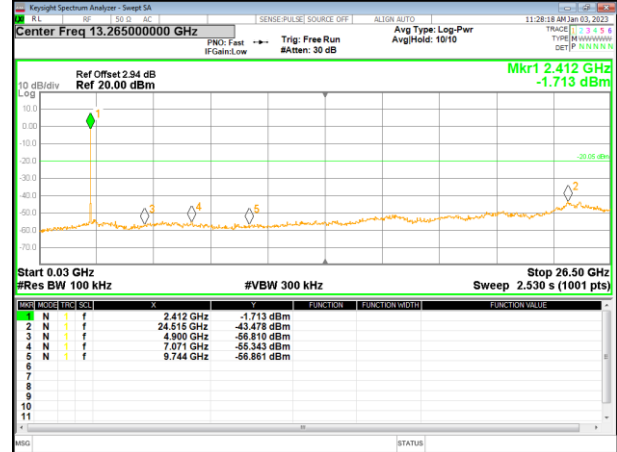
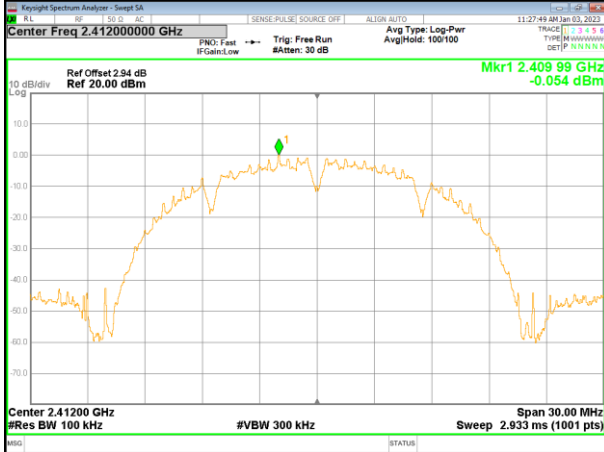
Test Requirement:	FCC Part15 C Section 15.247 (d), RSS-Gen §8.9 §8.10
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remark: /

Test plot as follows: (RTL8822CU Module)

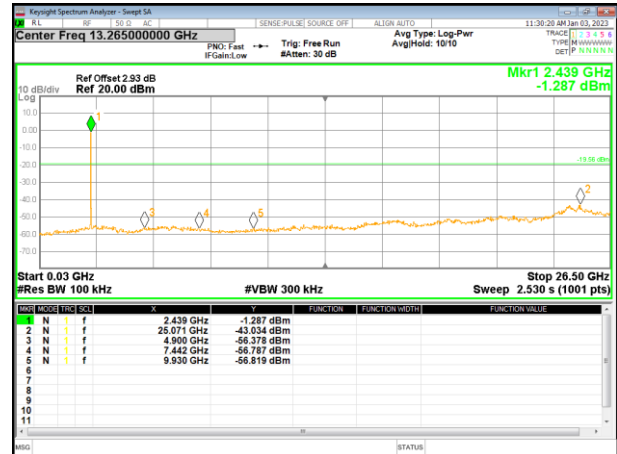
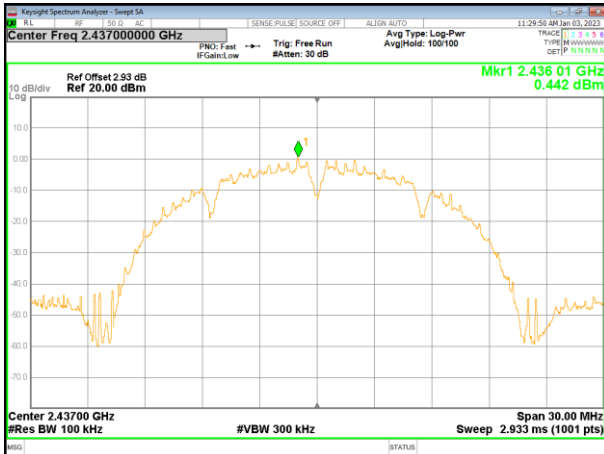
802.11b

Lowest channel



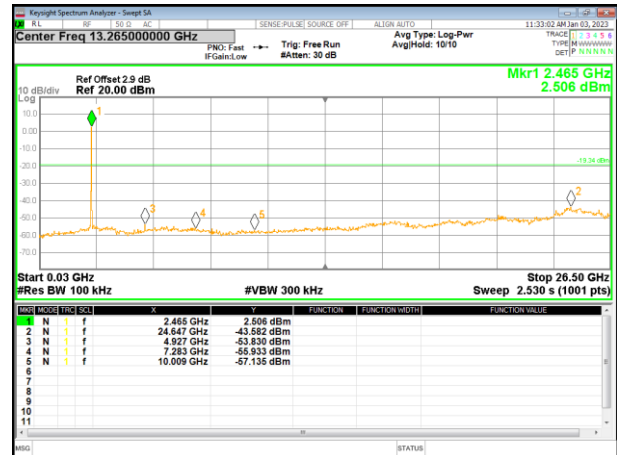
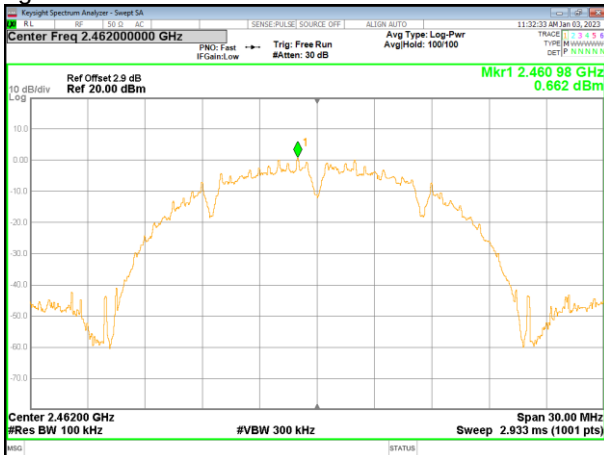
30MHz~25GHz

Middle channel



30MHz~25GHz

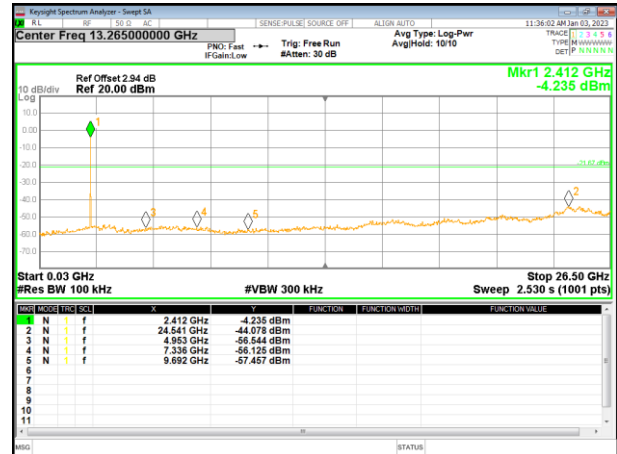
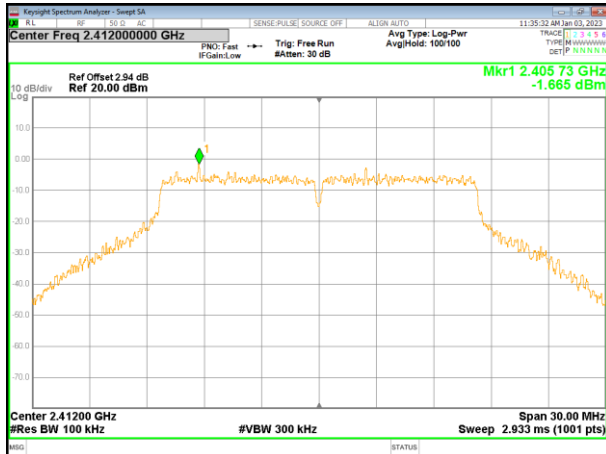
Highest channel



30MHz~25GHz

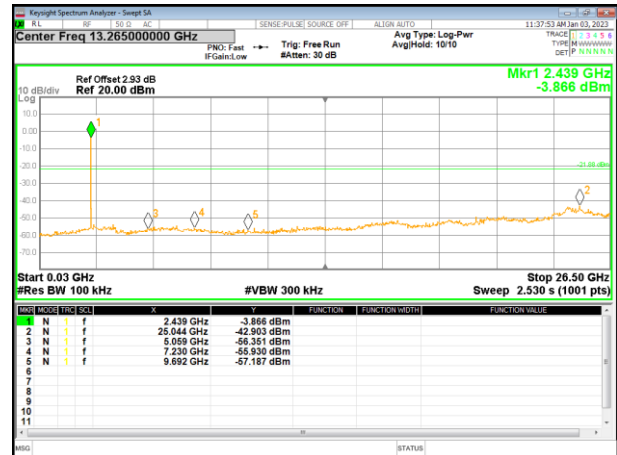
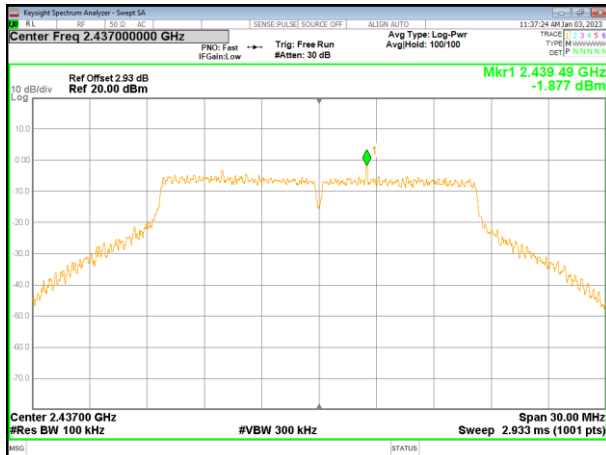
802.11g

Lowest channel



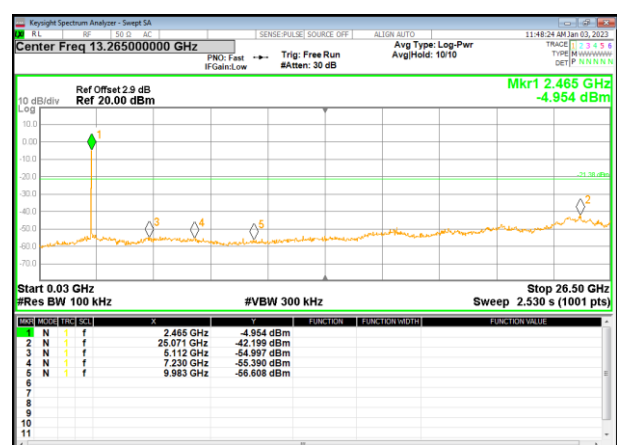
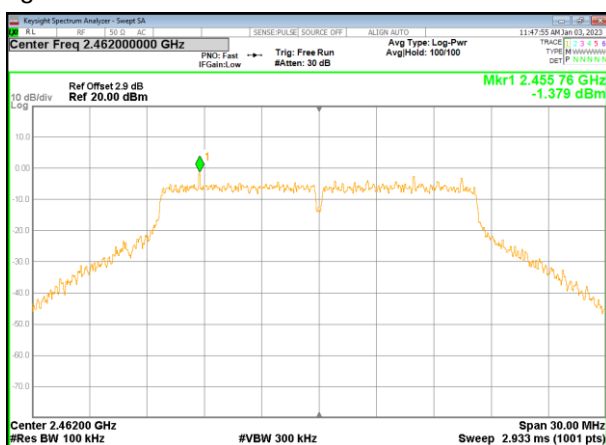
30MHz~25GHz

Middle channel



30MHz~25GHz

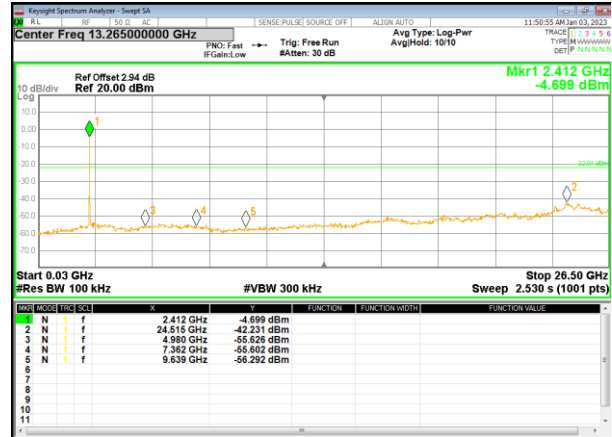
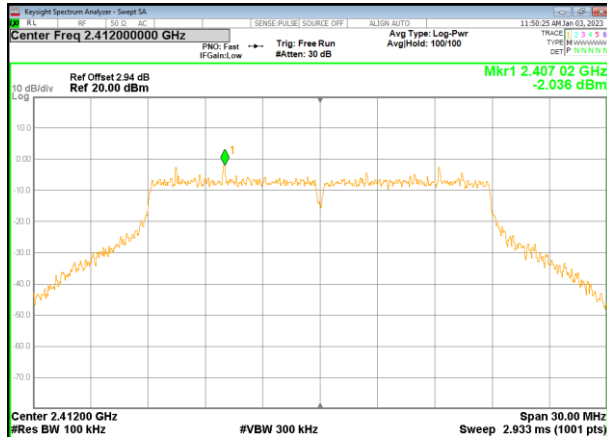
Highest channel



30MHz~25GHz

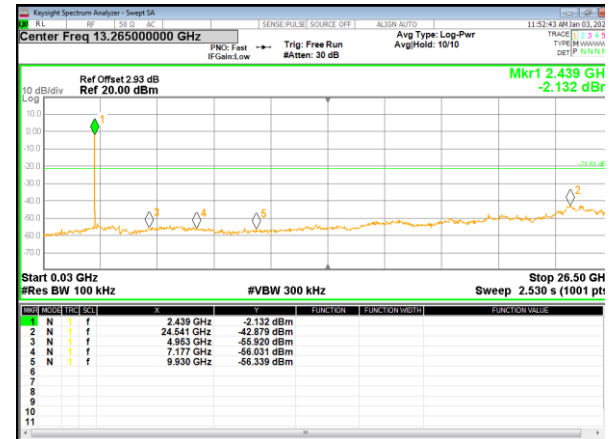
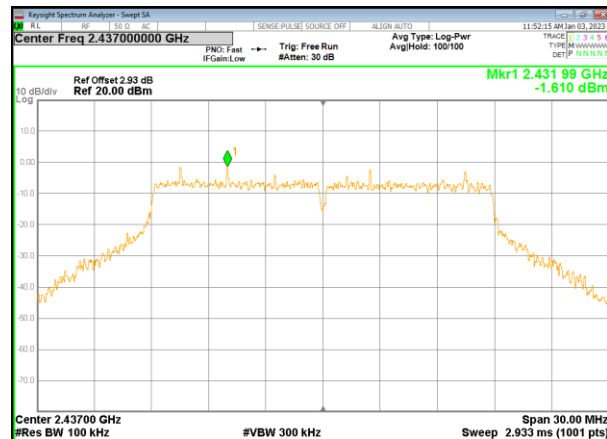
802.11n20

Lowest channel



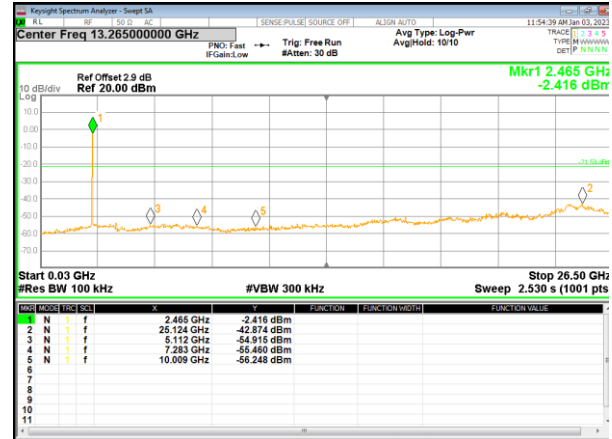
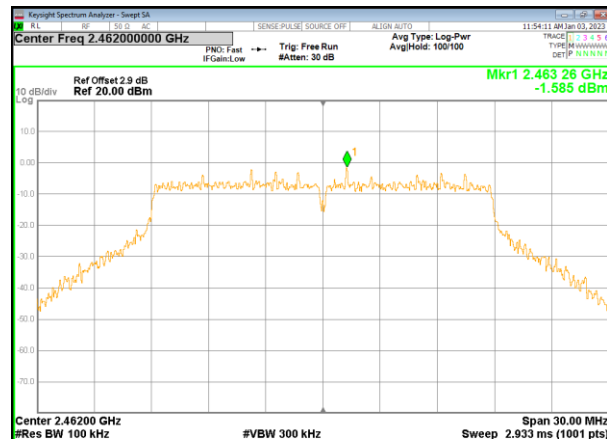
30MHz~25GHz

Middle channel



30MHz~25GHz

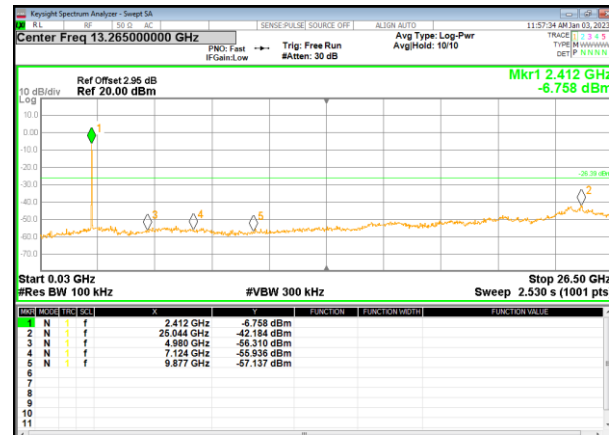
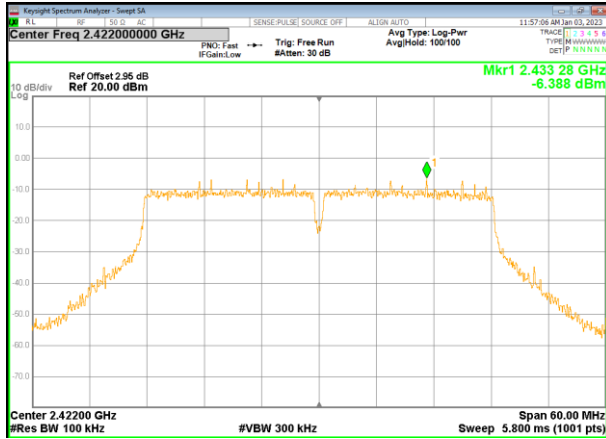
Highest channel



30MHz~25GHz

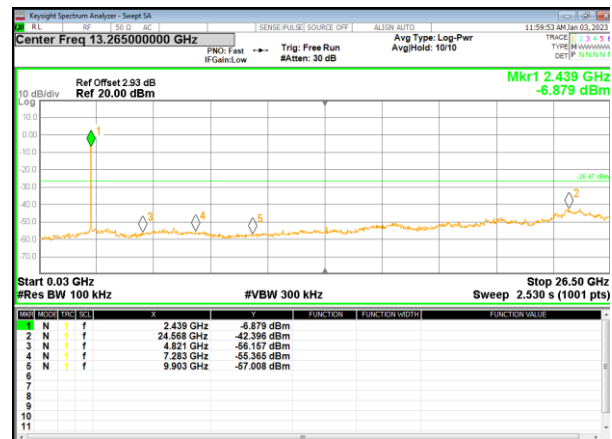
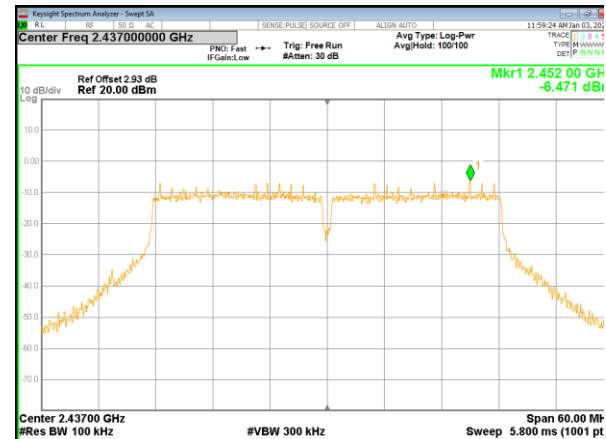
802.11n40

Lowest channel



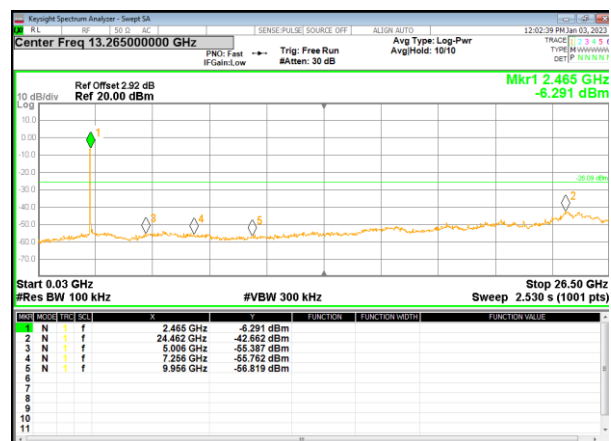
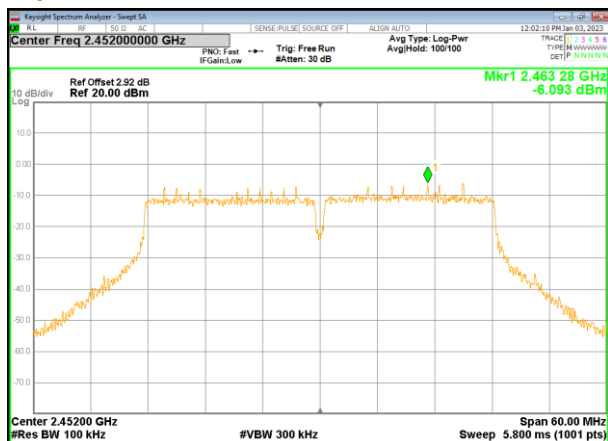
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

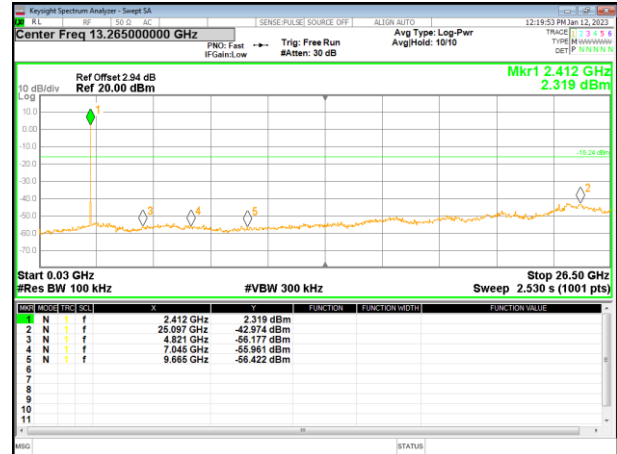
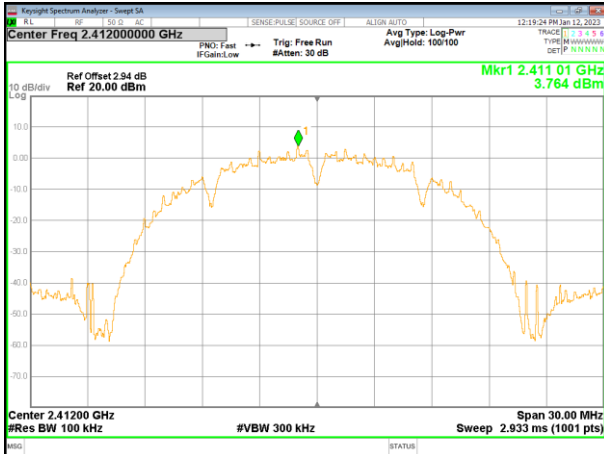


30MHz~25GHz

Test plot as follows: (RTL8731BU Module)

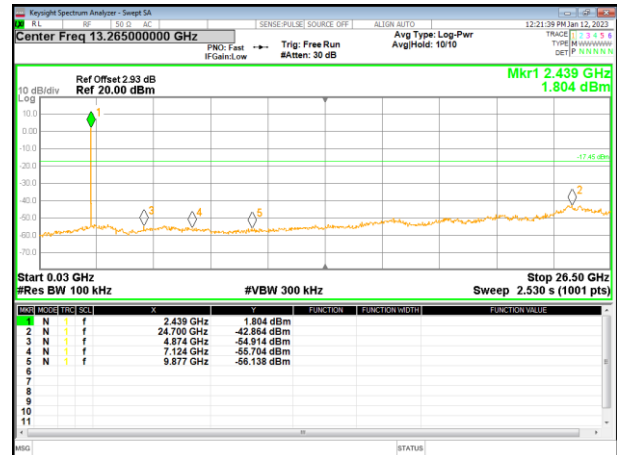
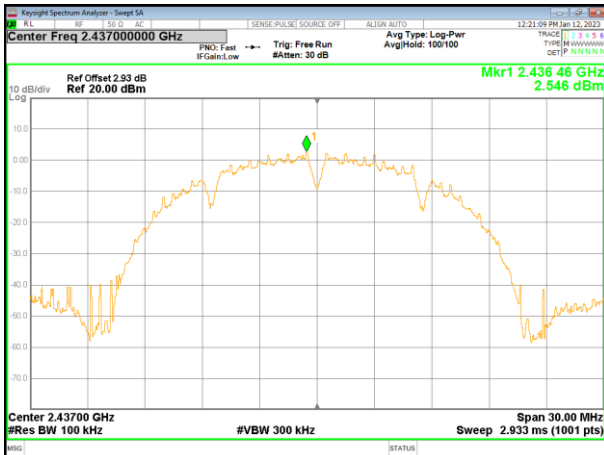
802.11b

Lowest channel



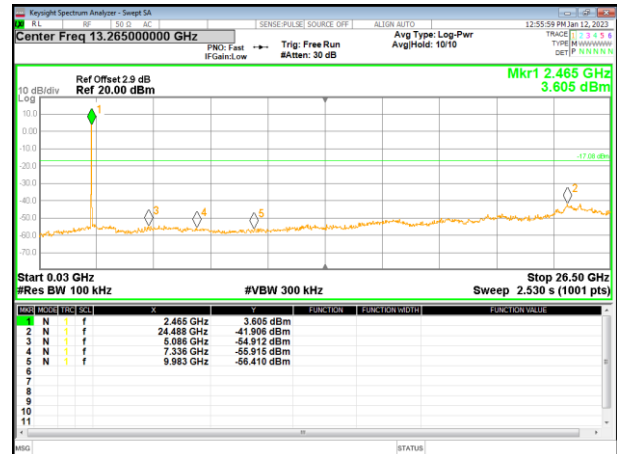
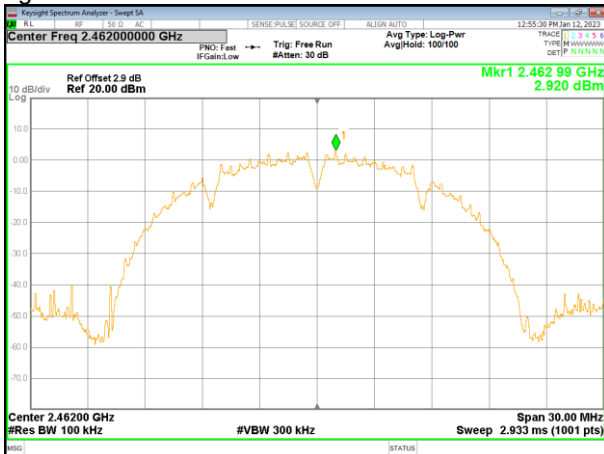
30MHz~25GHz

Middle channel



30MHz~25GHz

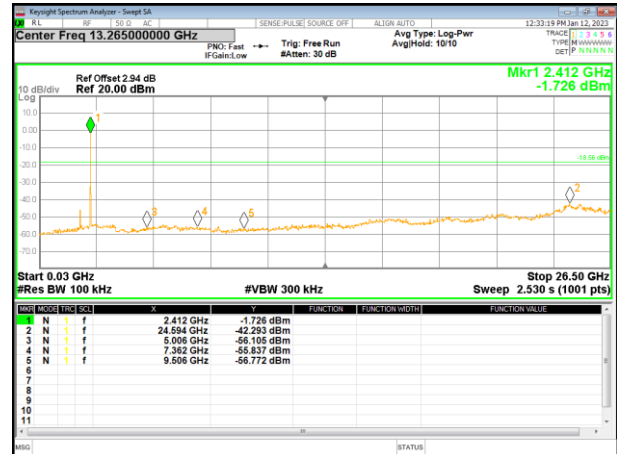
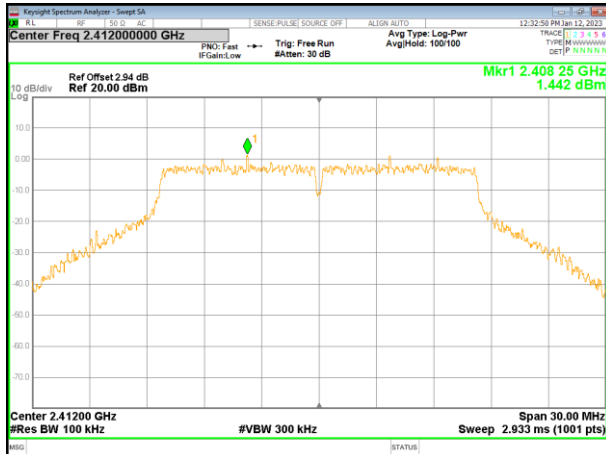
Highest channel



30MHz~25GHz

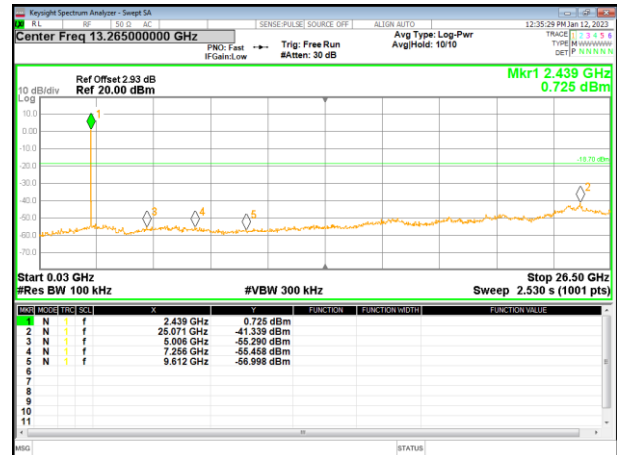
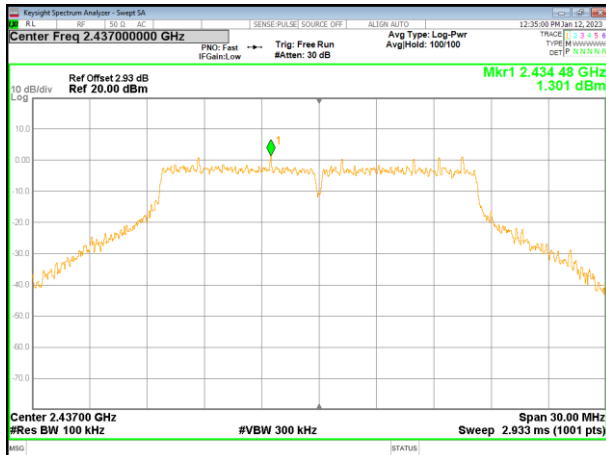
802.11g

Lowest channel



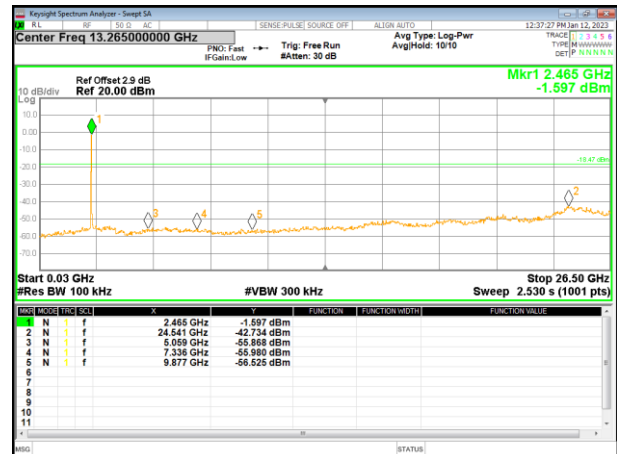
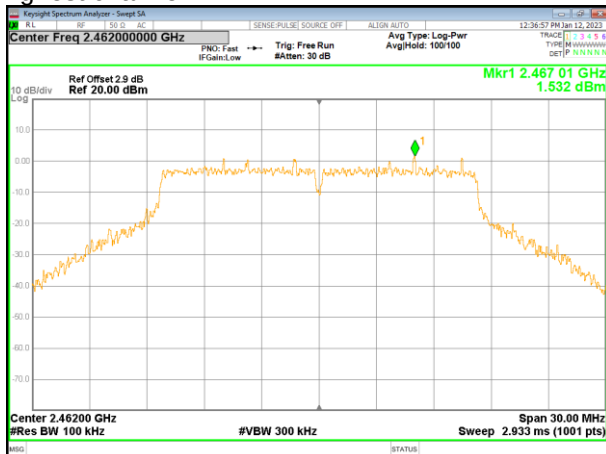
30MHz~25GHz

Middle channel



30MHz~25GHz

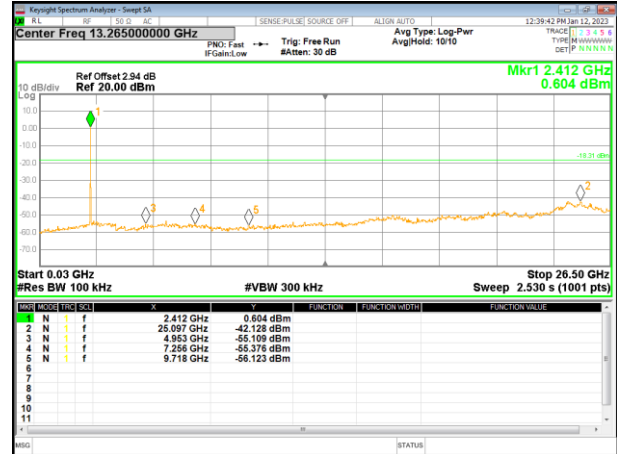
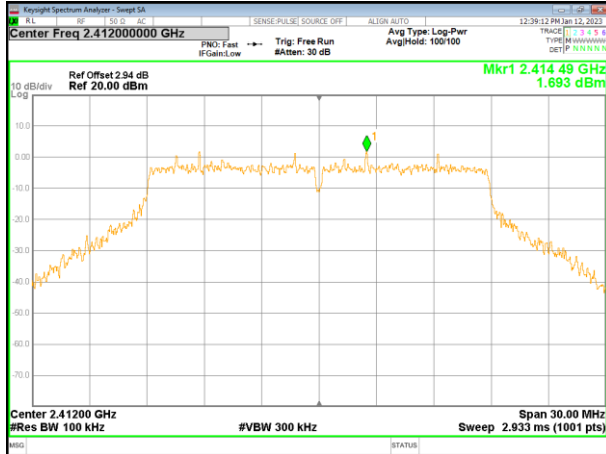
Highest channel



30MHz~25GHz

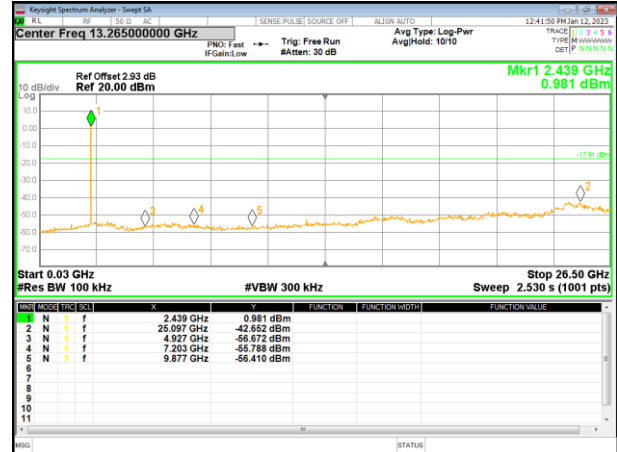
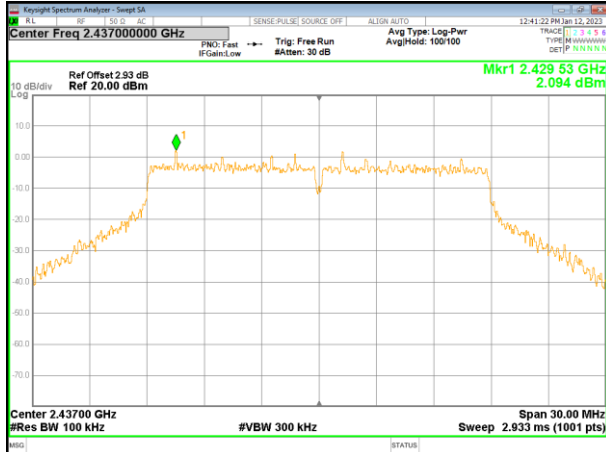
802.11n20

Lowest channel



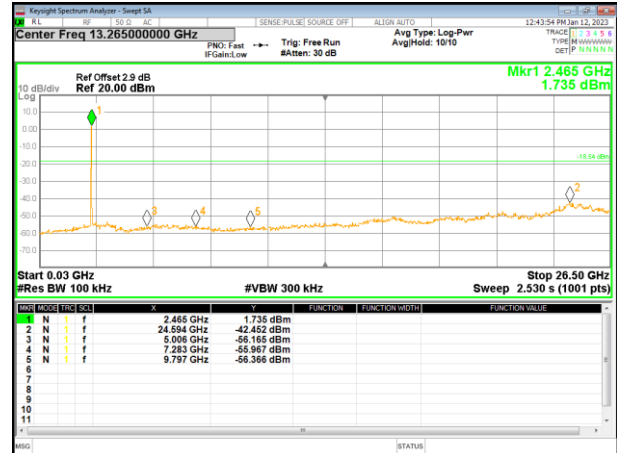
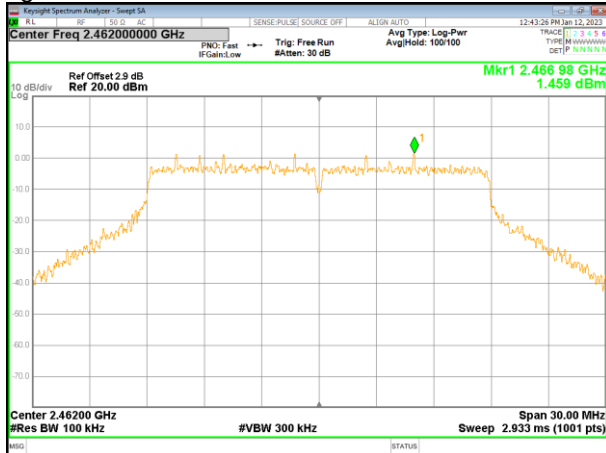
30MHz~25GHz

Middle channel



30MHz~25GHz

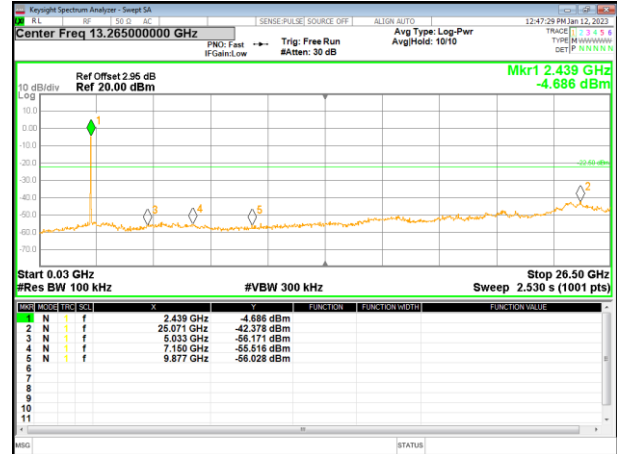
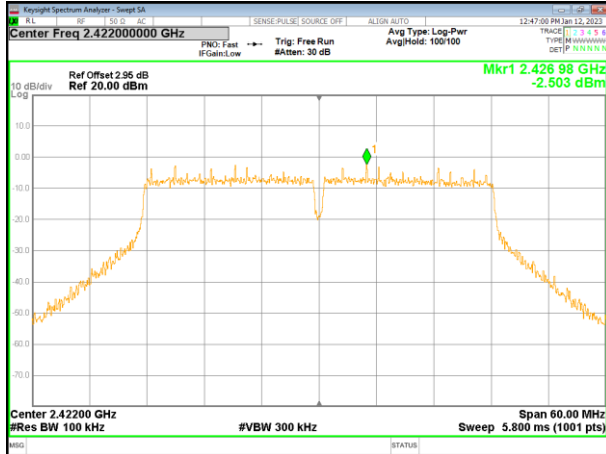
Highest channel



30MHz~25GHz

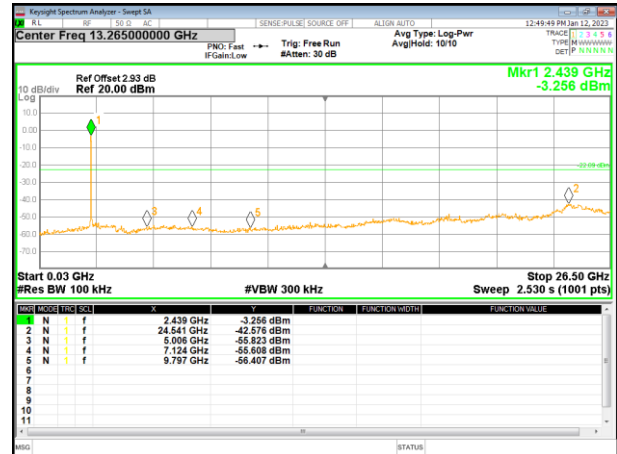
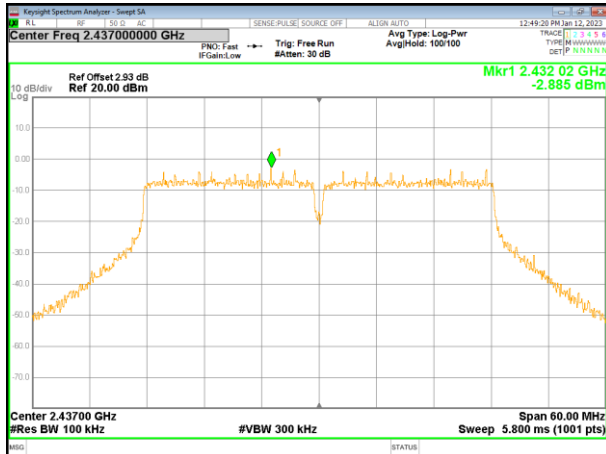
802.11n40

Lowest channel



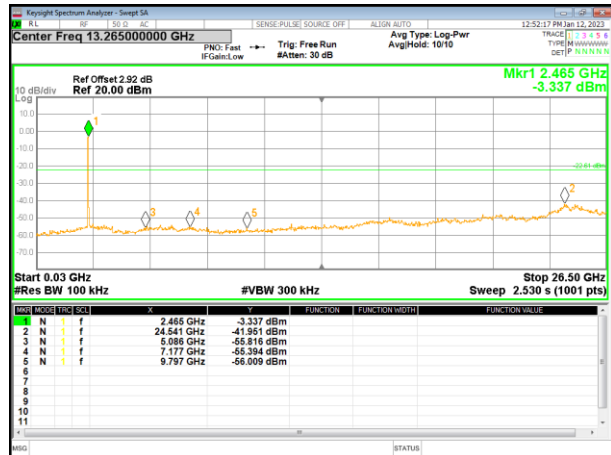
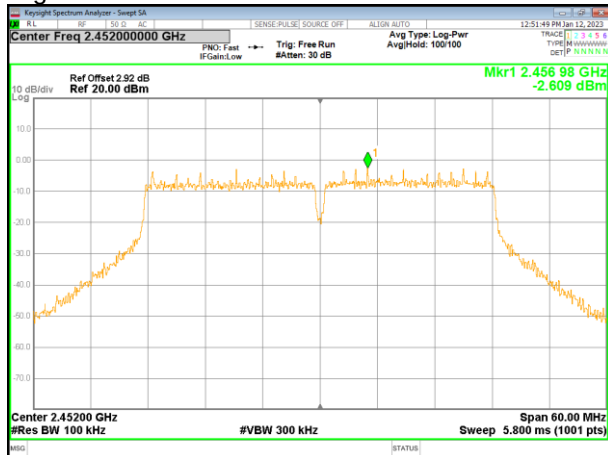
30MHz~25GHz

Middle channel



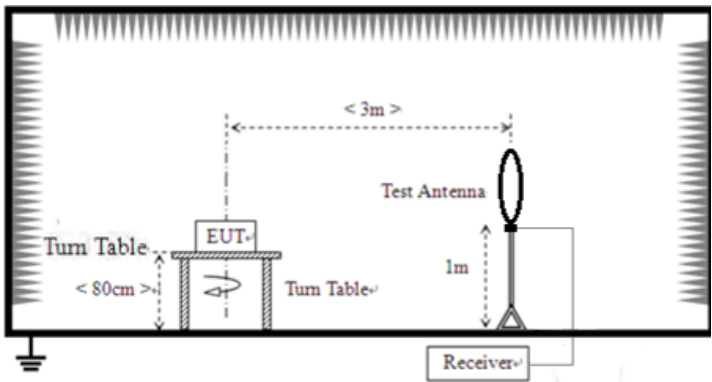
30MHz~25GHz

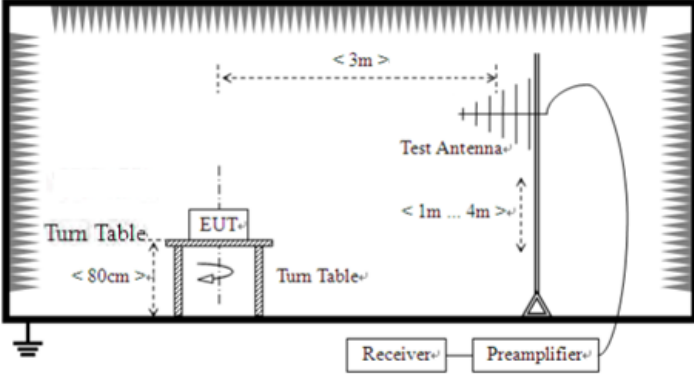
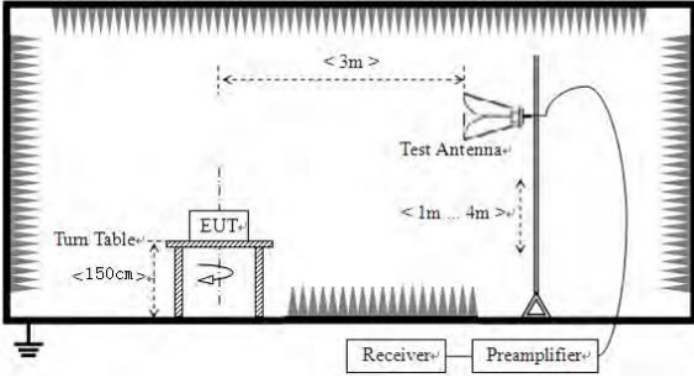
Highest channel



30MHz~25GHz

Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 , RSS-Gen §8.9 §8.10				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
For radiated emissions from 30MHz to1GHz					

	 For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details



Test environment:	Temp.:	25.6 °C	Humid.:	55%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

- 1. The report only shows the worst mode .*
- 2. Pre-scan all kind of the place mode (X-axis, Y-(axis, Z-axis), and found the Y-axis which it is worse case.*

Measurement data:

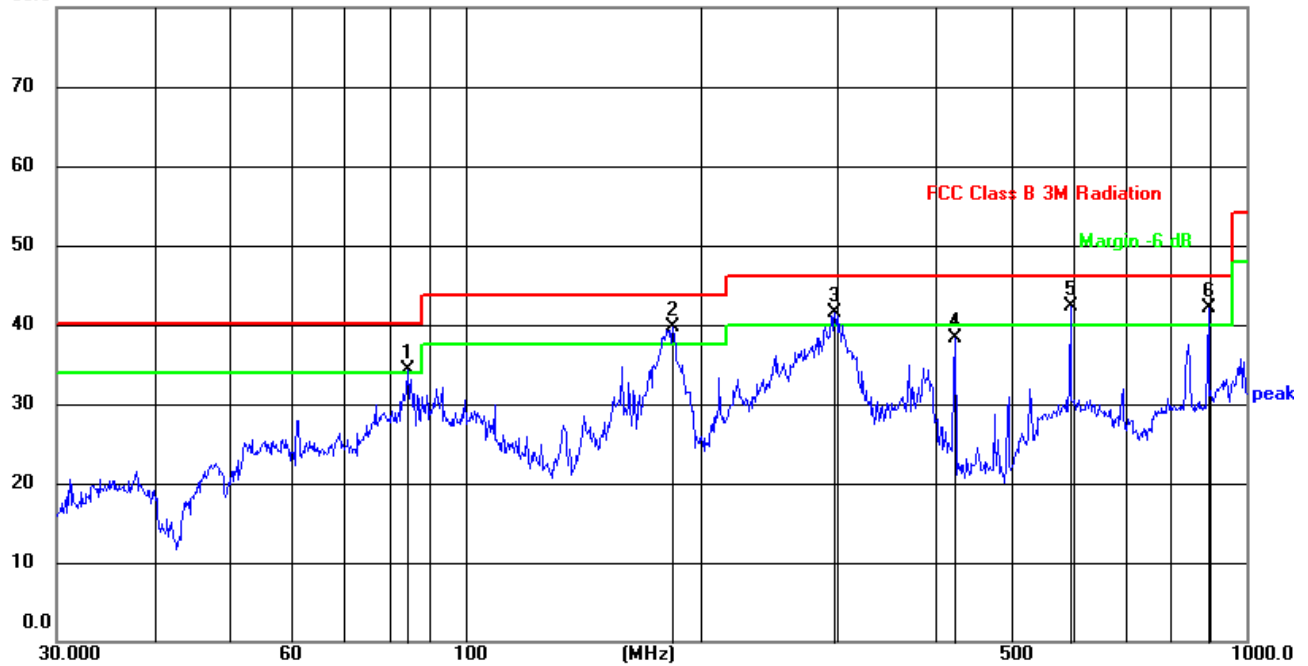
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

■ Below 1GHz

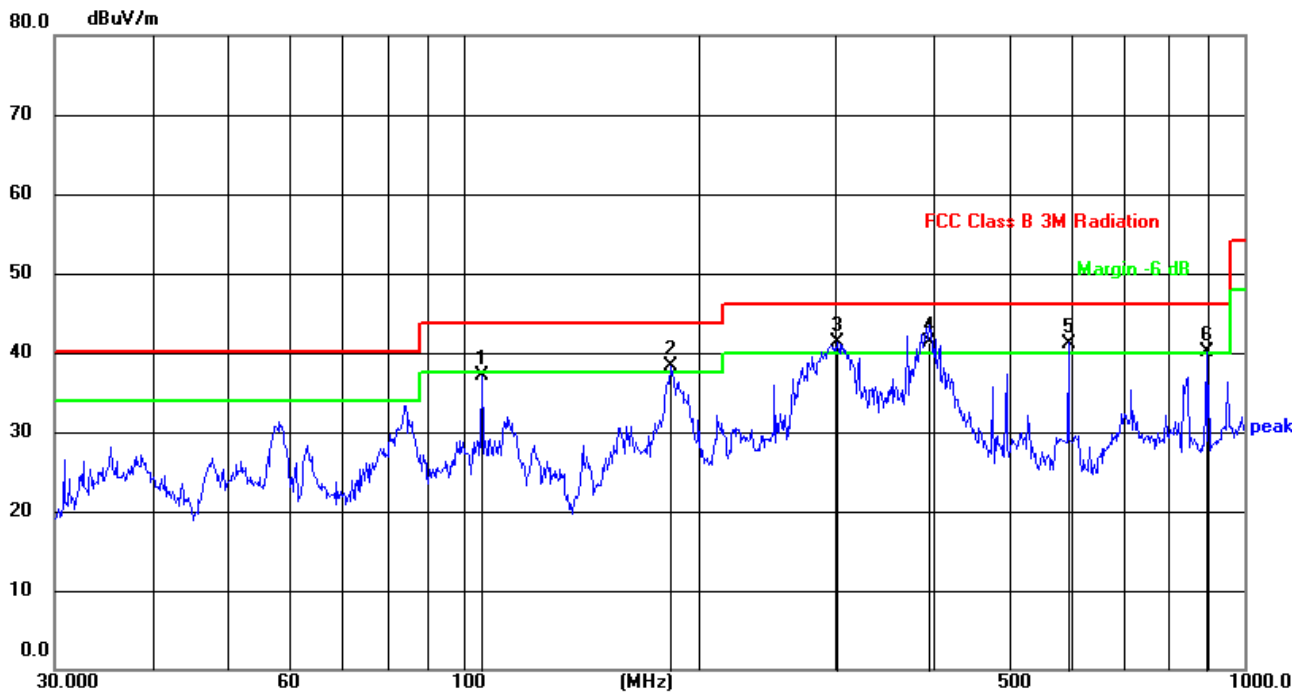
Vertical:

80.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	84.4054	54.70	-20.38	34.32	40.00	-5.68	QP
2	184.4898	57.69	-18.01	39.68	43.50	-3.82	QP
3	297.2238	59.95	-18.50	41.45	46.00	-4.55	QP
4	423.5402	53.86	-15.62	38.24	46.00	-7.76	QP
5	595.1326	52.67	-10.41	42.26	46.00	-3.74	QP
6	893.8564	48.80	-6.64	42.16	46.00	-3.84	QP

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	105.6414	56.99	-19.88	37.11	43.50	-6.39	QP
2	184.4898	56.73	-18.41	38.32	43.50	-5.18	QP
3	301.4223	59.27	-18.03	41.24	46.00	-4.76	QP
4	394.8543	57.88	-16.56	41.32	46.00	-4.68	QP
5	595.1326	52.51	-11.31	41.20	46.00	-4.80	QP
6	893.8564	46.05	-5.99	40.06	46.00	-5.94	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor

All modes are tested and only report worst case mode 802.11g 2412MHz for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	65.40	32.10	5.96	45.50	57.96	74.00	-16.04	Vertical
7236.00	60.65	36.60	6.93	45.60	58.58	74.00	-15.42	Vertical
9648.00	61.01	38.60	8.02	46.20	61.43	74.00	-12.57	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	64.35	32.10	5.96	45.50	56.91	74.00	-17.09	Horizontal
7236.00	60.97	36.60	6.93	45.60	58.90	74.00	-15.10	Horizontal
9648.00	59.20	38.60	8.02	46.20	59.62	74.00	-14.38	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.98	32.10	5.96	45.50	38.54	54.00	-15.46	Vertical
7236.00	42.27	36.60	6.93	45.60	40.20	54.00	-13.80	Vertical
9648.00	45.26	38.60	8.02	46.20	45.68	54.00	-8.32	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	46.79	32.10	5.96	45.50	39.35	54.00	-14.65	Horizontal
7236.00	44.36	36.60	6.93	45.60	42.29	54.00	-11.71	Horizontal
9648.00	45.33	38.60	8.02	46.20	45.75	54.00	-8.25	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously



Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	60.48	32.40	5.96	45.50	53.34	74.00	-20.66	Vertical
7311.00	59.43	36.60	6.93	45.60	57.36	74.00	-16.64	Vertical
9748.00	60.82	38.00	8.02	46.20	60.64	74.00	-13.36	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	61.56	32.40	5.96	45.50	54.42	74.00	-19.58	Horizontal
7311.00	56.83	36.60	6.93	45.60	54.76	74.00	-19.24	Horizontal
9748.00	59.82	38.00	8.02	46.20	59.64	74.00	-14.36	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	45.86	32.40	5.96	45.50	38.72	54.00	-15.28	Vertical
7311.00	41.98	36.60	6.93	45.60	39.91	54.00	-14.09	Vertical
9748.00	44.82	38.00	8.02	46.20	44.64	54.00	-9.36	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	45.40	32.40	5.96	45.50	38.26	54.00	-15.74	Horizontal
7311.00	42.08	36.60	6.93	45.60	40.01	54.00	-13.99	Horizontal
9748.00	42.60	38.00	8.02	46.20	42.42	54.00	-11.58	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	63.83	32.80	5.96	45.70	56.89	74.00	-17.11	Vertical
7386.00	58.68	36.40	6.93	45.80	56.21	74.00	-17.79	Vertical
9848.00	60.22	38.20	8.02	46.20	60.24	74.00	-13.76	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	65.24	32.80	5.96	45.70	58.30	74.00	-15.70	Horizontal
7386.00	58.90	36.40	6.93	45.80	56.43	74.00	-17.57	Horizontal
9848.00	58.94	38.20	8.02	46.20	58.96	74.00	-15.04	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	48.71	32.80	5.96	45.70	41.77	54.00	-12.23	Vertical
7386.00	45.03	36.40	6.93	45.80	42.56	54.00	-11.44	Vertical
9848.00	44.51	38.20	8.02	46.20	44.53	54.00	-9.47	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	46.60	32.80	5.96	45.70	39.66	54.00	-14.34	Horizontal
7386.00	41.23	36.40	6.93	45.80	38.76	54.00	-15.24	Horizontal
9848.00	42.33	38.20	8.02	46.20	42.35	54.00	-11.65	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	62.20	32.10	5.96	45.50	54.76	74.00	-19.24	Vertical
7236.00	58.95	36.60	6.93	45.60	56.88	74.00	-17.12	Vertical
9648.00	60.30	38.60	8.02	46.20	60.72	74.00	-13.28	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	60.71	32.10	5.96	45.50	53.27	74.00	-20.73	Horizontal
7236.00	58.73	36.60	6.93	45.60	56.66	74.00	-17.34	Horizontal
9648.00	60.20	38.60	8.02	46.20	60.62	74.00	-13.38	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	46.95	32.10	5.96	45.50	39.51	54.00	-14.49	Vertical
7236.00	42.28	36.60	6.93	45.60	40.21	54.00	-13.79	Vertical
9648.00	43.58	38.60	8.02	46.20	44.00	54.00	-10.00	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	46.46	32.10	5.96	45.50	39.02	54.00	-14.98	Horizontal
7236.00	42.33	36.60	6.93	45.60	40.26	54.00	-13.74	Horizontal
9648.00	42.56	38.60	8.02	46.20	42.98	54.00	-11.02	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	61.21	32.40	5.96	45.50	54.07	74.00	-19.93	Vertical
7311.00	58.53	36.60	6.93	45.60	56.46	74.00	-17.54	Vertical
9748.00	59.65	38.00	8.02	46.20	59.47	74.00	-14.53	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	61.39	32.40	5.96	45.50	54.25	74.00	-19.75	Horizontal
7311.00	58.44	36.60	6.93	45.60	56.37	74.00	-17.63	Horizontal
9748.00	60.07	38.00	8.02	46.20	59.89	74.00	-14.11	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	47.84	32.40	5.96	45.50	40.70	54.00	-13.30	Vertical
7311.00	41.83	36.60	6.93	45.60	39.76	54.00	-14.24	Vertical
9748.00	43.81	38.00	8.02	46.20	43.63	54.00	-10.37	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	46.60	32.40	5.96	45.50	39.46	54.00	-14.54	Horizontal
7311.00	42.79	36.60	6.93	45.60	40.72	54.00	-13.28	Horizontal
9748.00	43.46	38.00	8.02	46.20	43.28	54.00	-10.72	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	65.96	32.80	5.96	45.70	59.02	74.00	-14.98	Vertical
7386.00	61.51	36.40	6.93	45.80	59.04	74.00	-14.96	Vertical
9848.00	60.90	38.20	8.02	46.20	60.92	74.00	-13.08	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	67.06	32.80	5.96	45.70	60.12	74.00	-13.88	Horizontal
7386.00	59.71	36.40	6.93	45.80	57.24	74.00	-16.76	Horizontal
9848.00	60.17	38.20	8.02	46.20	60.19	74.00	-13.81	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	49.25	32.80	5.96	45.70	42.31	54.00	-11.69	Vertical
7386.00	45.12	36.40	6.93	45.80	42.65	54.00	-11.35	Vertical
9848.00	44.21	38.20	8.02	46.20	44.23	54.00	-9.77	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	50.21	32.80	5.96	45.70	43.27	54.00	-10.73	Horizontal
7386.00	43.27	36.40	6.93	45.80	40.80	54.00	-13.20	Horizontal
9848.00	43.48	38.20	8.02	46.20	43.50	54.00	-10.50	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULEU) working simultaneously

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	65.38	32.10	5.96	45.50	57.94	74.00	-16.06	Vertical
7236.00	61.71	36.60	6.93	45.60	59.64	74.00	-14.36	Vertical
9648.00	59.11	38.60	8.02	46.20	59.53	74.00	-14.47	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	64.44	32.10	5.96	45.50	57.00	74.00	-17.00	Horizontal
7236.00	60.16	36.60	6.93	45.60	58.09	74.00	-15.91	Horizontal
9648.00	58.35	38.60	8.02	46.20	58.77	74.00	-15.23	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	48.50	32.10	5.96	45.50	41.06	54.00	-12.94	Vertical
7236.00	40.27	36.60	6.93	45.60	38.20	54.00	-15.80	Vertical
9648.00	42.22	38.60	8.02	46.20	42.64	54.00	-11.36	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	45.48	32.10	5.96	45.50	38.04	54.00	-15.96	Horizontal
7236.00	41.38	36.60	6.93	45.60	39.31	54.00	-14.69	Horizontal
9648.00	41.47	38.60	8.02	46.20	41.89	54.00	-12.11	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	66.50	32.10	5.96	45.50	59.06	74.00	-14.94	Vertical
7311.00	62.48	36.60	6.93	45.60	60.41	74.00	-13.59	Vertical
9748.00	60.28	38.60	8.02	46.20	60.70	74.00	-13.30	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	66.05	32.10	5.96	45.50	58.61	74.00	-15.39	Horizontal
7311.00	60.06	36.60	6.93	45.60	57.99	74.00	-16.01	Horizontal
9748.00	59.54	38.60	8.02	46.20	59.96	74.00	-14.04	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.95	32.10	5.96	45.50	39.51	54.00	-14.49	Vertical
7311.00	43.98	36.60	6.93	45.60	41.91	54.00	-12.09	Vertical
9748.00	43.19	38.60	8.02	46.20	43.61	54.00	-10.39	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	47.76	32.10	5.96	45.50	40.32	54.00	-13.68	Horizontal
7311.00	40.78	36.60	6.93	45.60	38.71	54.00	-15.29	Horizontal
9748.00	41.66	38.60	8.02	46.20	42.08	54.00	-11.92	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously



Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	64.63	32.80	5.96	45.70	57.69	74.00	-16.31	Vertical
7386.00	58.66	36.40	6.93	45.80	56.19	74.00	-17.81	Vertical
9848.00	59.87	38.20	8.02	46.20	59.89	74.00	-14.11	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	65.00	32.80	5.96	45.70	58.06	74.00	-15.94	Horizontal
7386.00	59.87	36.40	6.93	45.80	57.40	74.00	-16.60	Horizontal
9848.00	58.98	38.20	8.02	46.20	59.00	74.00	-15.00	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	47.86	32.80	5.96	45.70	40.92	54.00	-13.08	Vertical
7386.00	41.09	36.40	6.93	45.80	38.62	54.00	-15.38	Vertical
9848.00	43.04	38.20	8.02	46.20	43.06	54.00	-10.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	47.86	32.80	5.96	45.70	40.92	54.00	-13.08	Horizontal
7386.00	42.18	36.40	6.93	45.80	39.71	54.00	-14.29	Horizontal
9848.00	39.50	38.20	8.02	46.20	39.52	54.00	-14.48	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	59.59	32.10	5.96	45.50	52.15	74.00	-21.85	Vertical
7266.00	62.05	36.80	6.93	45.60	60.18	74.00	-13.82	Vertical
9688.00	60.25	38.10	8.02	46.20	60.17	74.00	-13.83	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	57.20	32.10	5.96	45.50	49.76	74.00	-24.24	Horizontal
7266.00	60.83	36.80	6.93	45.60	58.96	74.00	-15.04	Horizontal
9688.00	58.82	38.10	8.02	46.20	58.74	74.00	-15.26	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	44.42	32.10	5.96	45.50	36.98	54.00	-17.02	Vertical
7266.00	46.68	36.80	6.93	45.60	44.81	54.00	-9.19	Vertical
9688.00	44.42	38.10	8.02	46.20	44.34	54.00	-9.66	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	42.51	32.10	5.96	45.50	35.07	54.00	-18.93	Horizontal
7266.00	45.90	36.80	6.93	45.60	44.03	54.00	-9.97	Horizontal
9688.00	43.71	38.10	8.02	46.20	43.63	54.00	-10.37	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously

Test mode:	802.11n(HT40)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	59.11	32.10	5.96	45.50	51.67	74.00	-22.33	Vertical
7311.00	62.11	36.60	6.93	45.60	60.04	74.00	-13.96	Vertical
9748.00	58.74	38.60	8.02	46.20	59.16	74.00	-14.84	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	58.43	32.10	5.96	45.50	50.99	74.00	-23.01	Horizontal
7311.00	60.35	36.60	6.93	45.60	58.28	74.00	-15.72	Horizontal
9748.00	59.85	38.60	8.02	46.20	60.27	74.00	-13.73	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	45.60	32.10	5.96	45.50	38.16	54.00	-15.84	Vertical
7311.00	47.47	36.60	6.93	45.60	45.40	54.00	-8.60	Vertical
9748.00	45.26	38.60	8.02	46.20	45.68	54.00	-8.32	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	45.06	32.10	5.96	45.50	37.62	54.00	-16.38	Horizontal
7311.00	48.03	36.60	6.93	45.60	45.96	54.00	-8.04	Horizontal
9748.00	44.68	38.60	8.02	46.20	45.10	54.00	-8.90	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*” means this data is too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULE) working simultaneously



Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	57.49	32.80	5.96	45.70	50.55	74.00	-23.45	Vertical
7356.00	58.77	36.20	6.93	45.80	56.10	74.00	-17.90	Vertical
9808.00	57.92	38.40	8.02	46.20	58.14	74.00	-15.86	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	60.23	32.80	5.96	45.70	53.29	74.00	-20.71	Horizontal
7356.00	58.15	36.20	6.93	45.80	55.48	74.00	-18.52	Horizontal
9808.00	59.45	38.40	8.02	46.20	59.67	74.00	-14.33	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	49.26	32.80	5.96	45.70	42.32	54.00	-11.68	Vertical
7356.00	43.46	36.20	6.93	45.80	40.79	54.00	-13.21	Vertical
9808.00	42.18	38.40	8.02	46.20	42.40	54.00	-11.60	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	49.91	32.80	5.96	45.70	42.97	54.00	-11.03	Horizontal
7356.00	43.93	36.20	6.93	45.80	41.26	54.00	-12.74	Horizontal
9808.00	41.89	38.40	8.02	46.20	42.11	54.00	-11.89	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1 Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.
- 3 All modes are tested and only report worst case mode for both (RTL8822CU MODULE) and (RTL8731BU MODULEU) working simultaneously

5. Test Setup Photo

Reference to the **appendix I** for details.

6. EUT Constructional Details

Reference to the **appendix II** for details.

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