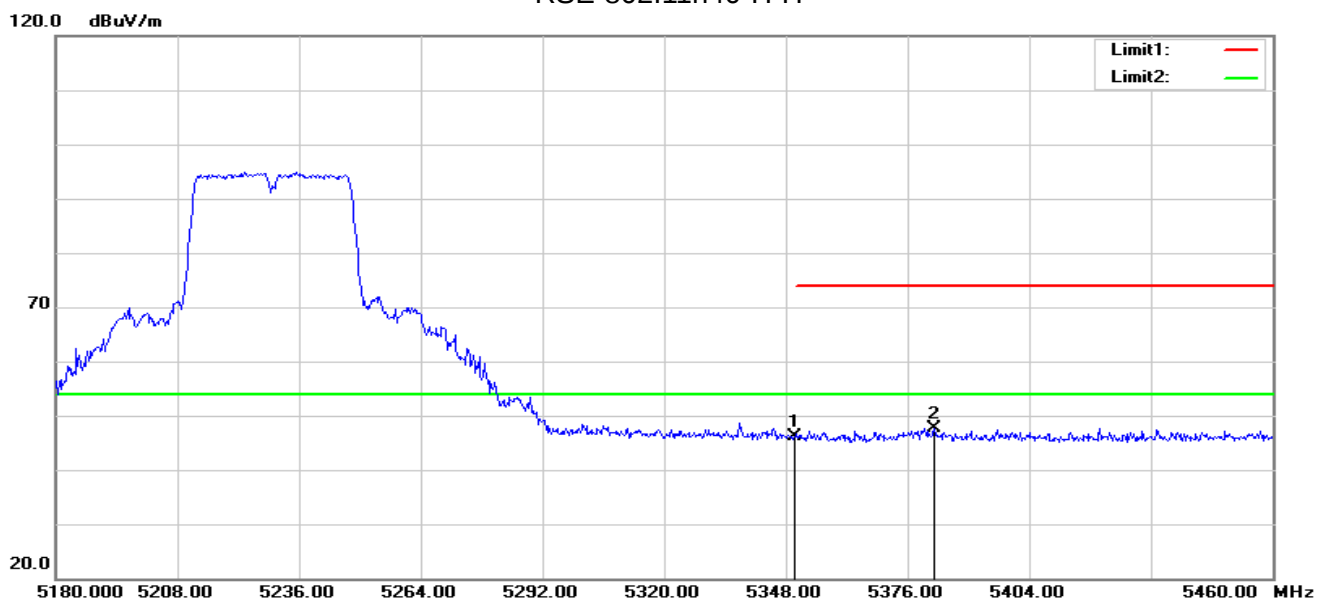


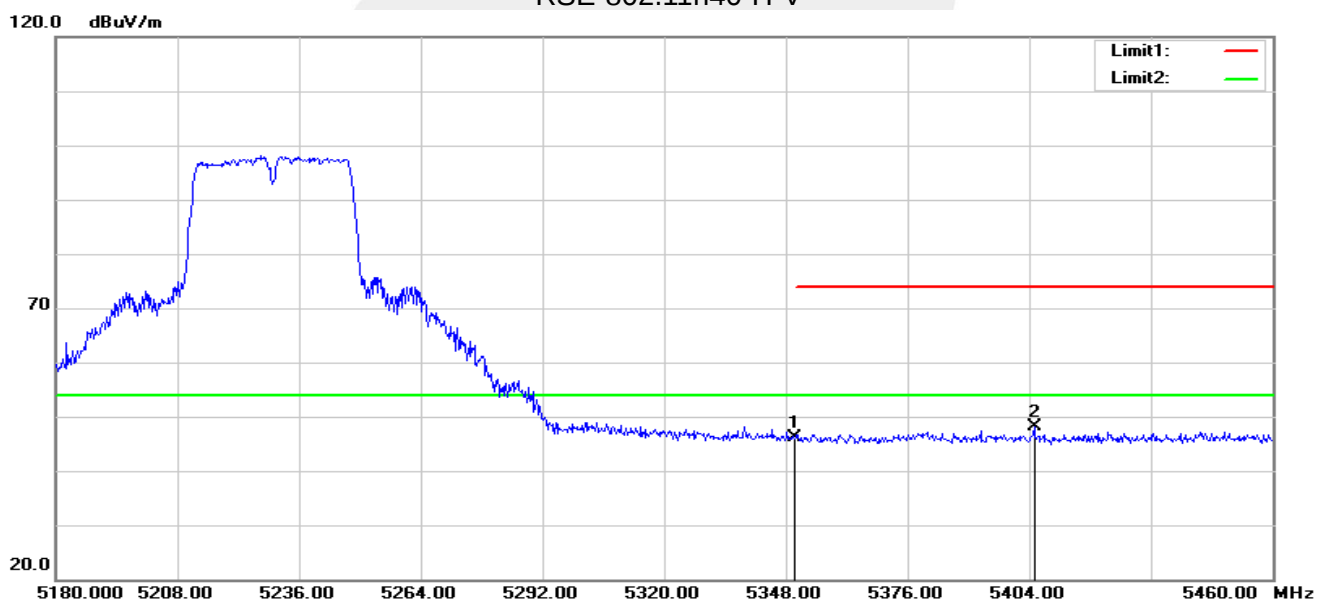


RSE-802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.41	-5.23	46.18	74.00	-27.82	peak
2	5382.160	52.80	-5.24	47.56	74.00	-26.44	peak

RSE-802.11n40-H-V



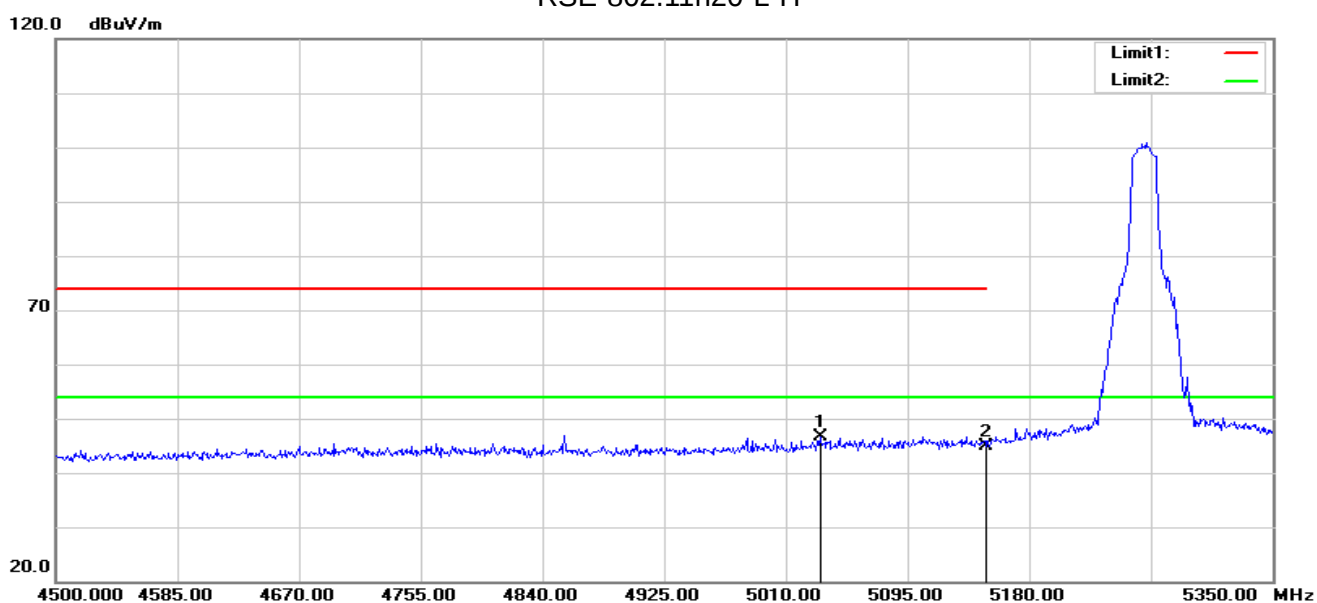
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	51.38	-5.23	46.15	74.00	-27.85	peak
2	5405.120	53.37	-5.24	48.13	74.00	-25.87	peak

Note: All modes have been tested. Only the worst mode shown in the report.



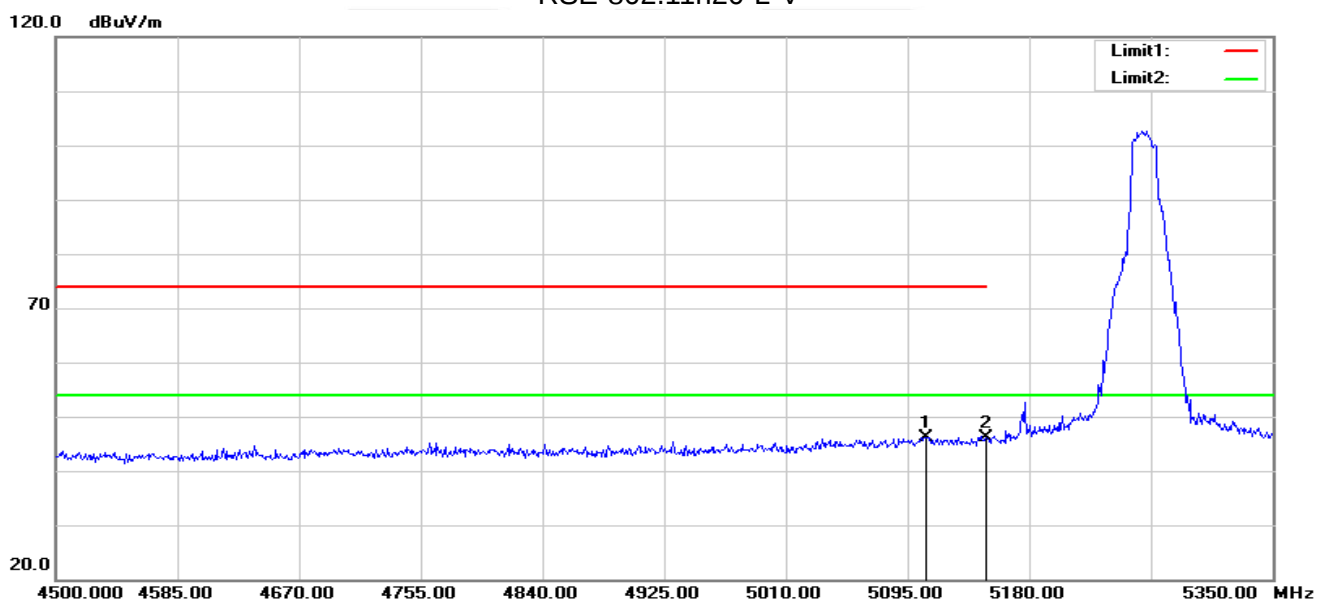
U-NII-2A 5250-5350MHz

RSE-802.11n20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5033.800	52.65	-6.03	46.62	74.00	-27.38	peak
2	5150.000	50.70	-5.73	44.97	74.00	-29.03	peak

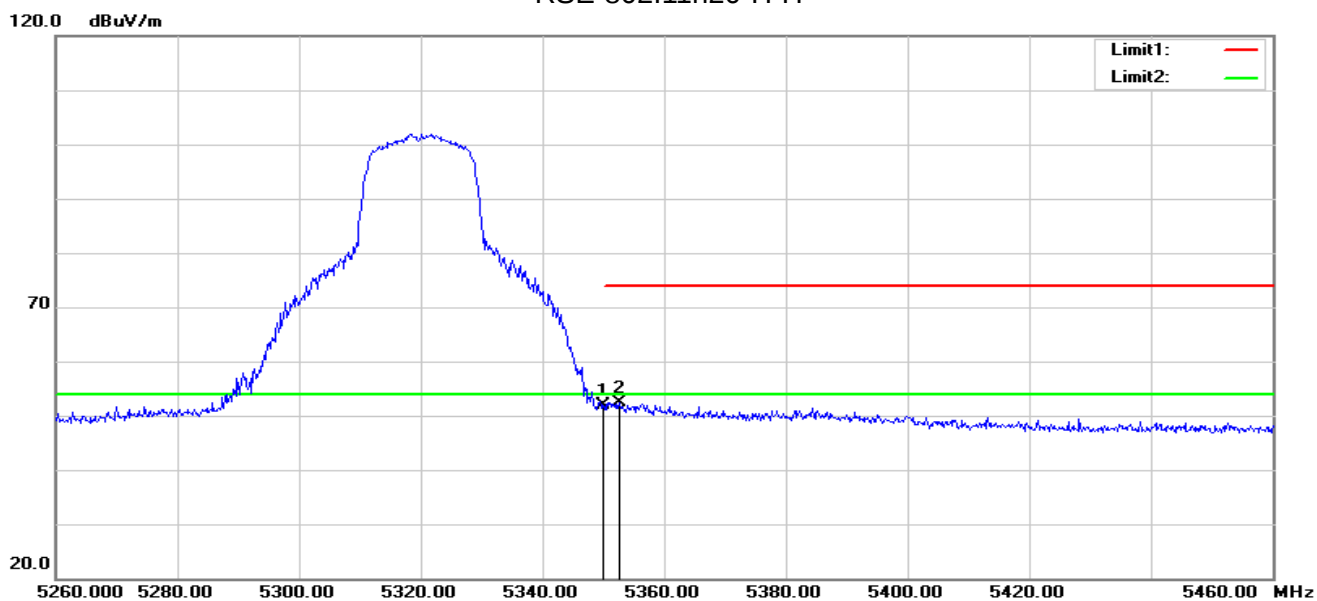
RSE-802.11n20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5107.750	51.95	-5.74	46.21	74.00	-27.79	peak
2	5150.000	51.89	-5.73	46.16	74.00	-27.84	peak

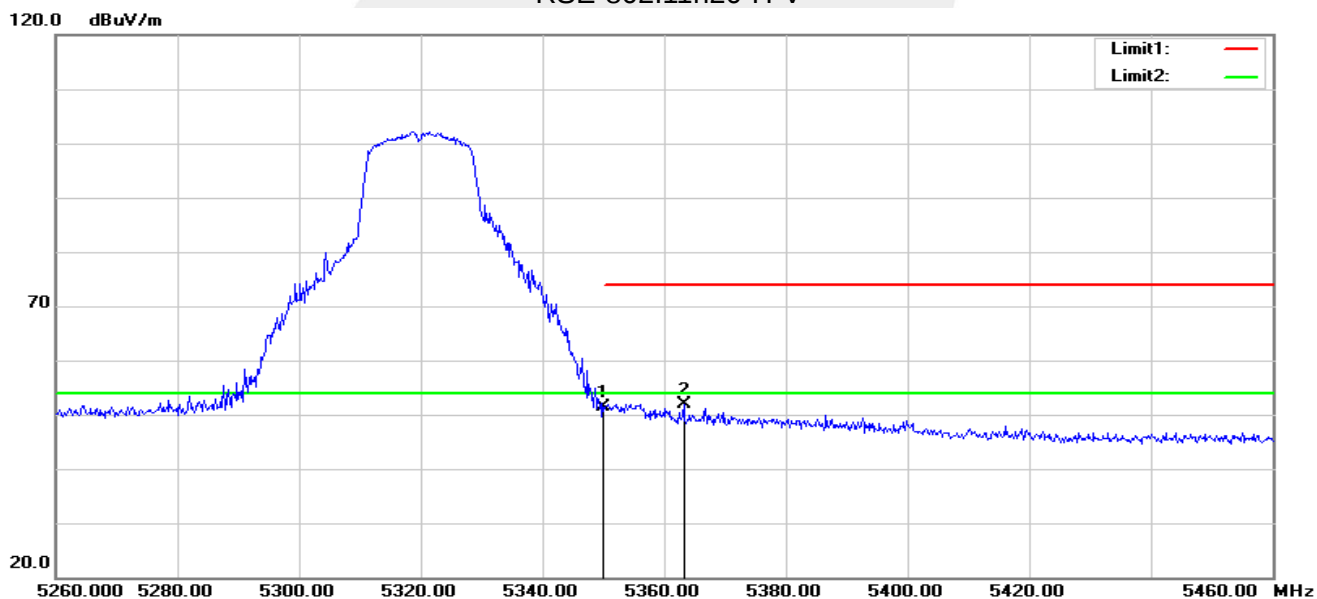


RSE-802.11n20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	57.05	-5.23	51.82	74.00	-22.18	peak
2	5352.600	57.59	-5.23	52.36	74.00	-21.64	peak

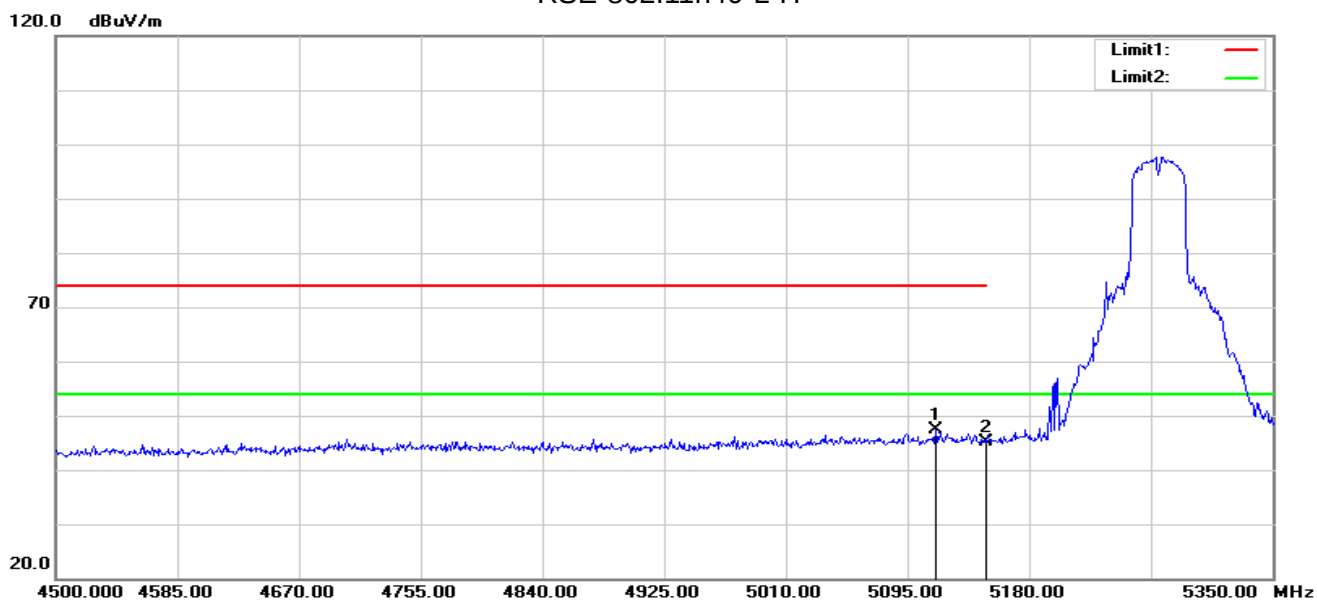
RSE-802.11n20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.66	-5.23	51.43	74.00	-22.57	peak
2	5363.200	57.04	-5.24	51.80	74.00	-22.20	peak

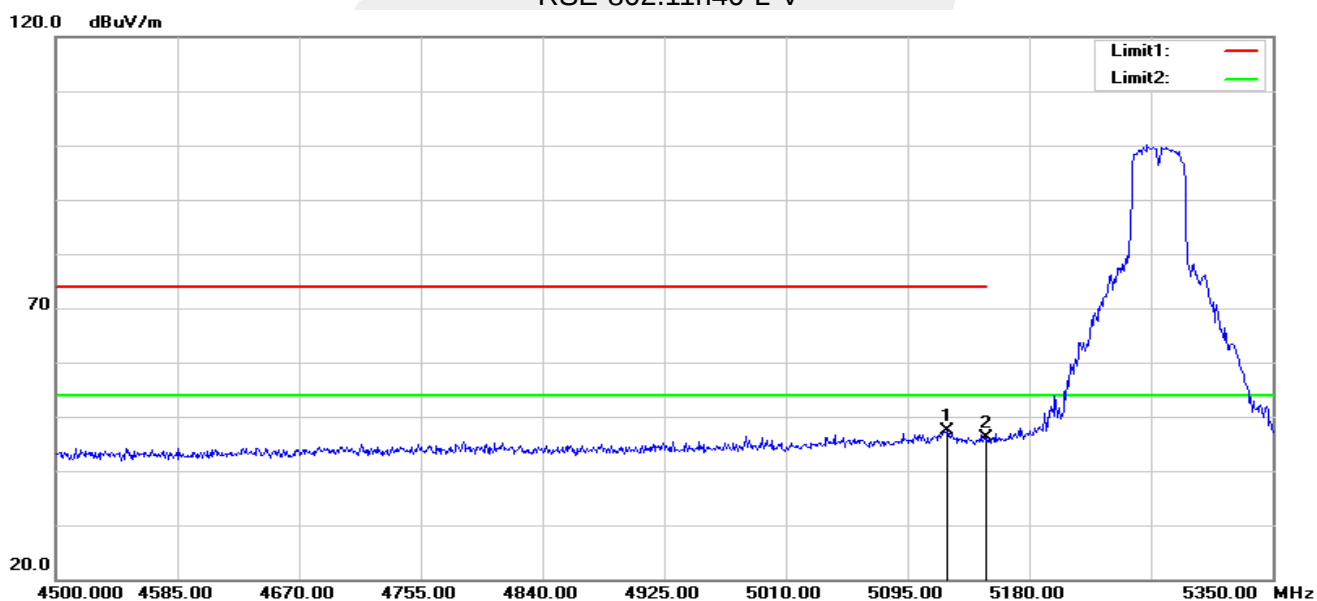


RSE-802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5114.550	53.08	-5.74	47.34	74.00	-26.66	peak
2	5150.000	50.75	-5.73	45.02	74.00	-28.98	peak

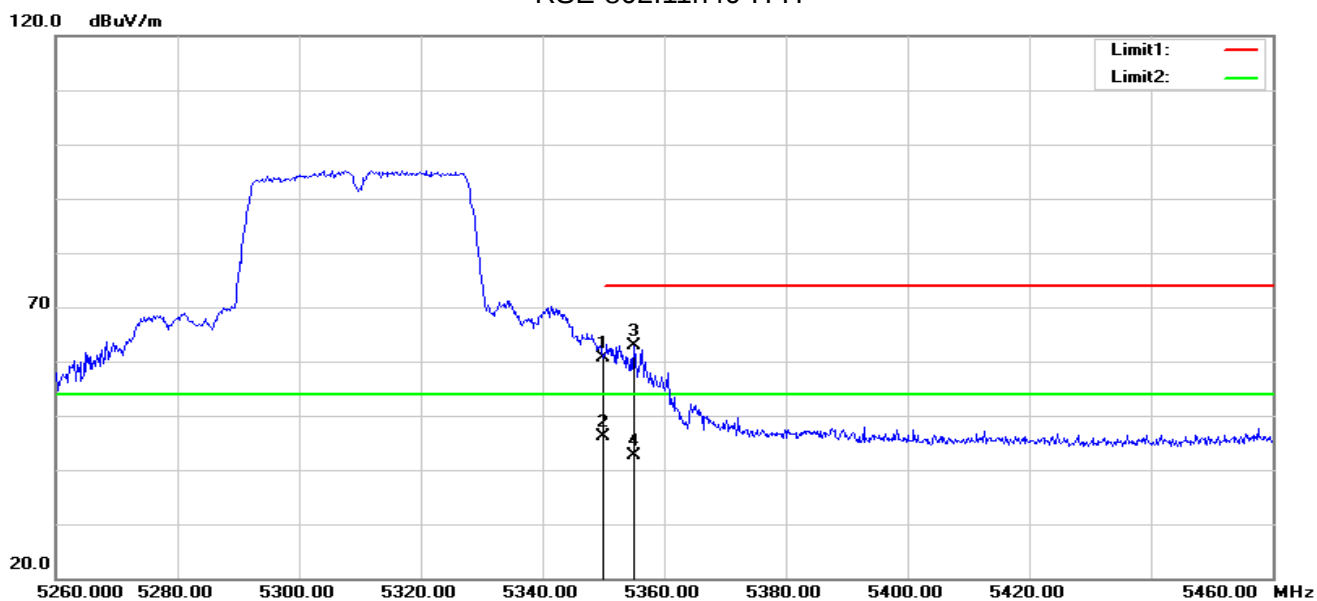
RSE-802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5122.200	53.14	-5.74	47.40	74.00	-26.60	peak
2	5150.000	51.90	-5.73	46.17	74.00	-27.83	peak



RSE-802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	65.95	-5.23	60.72	74.00	-13.28	peak
2	5350.000	51.37	-5.23	46.14	54.00	-7.86	AVG
3	5355.000	68.06	-5.24	62.82	74.00	-11.18	peak
4	5355.000	47.95	-5.24	42.71	54.00	-11.29	AVG

RSE-802.11n40-H-V



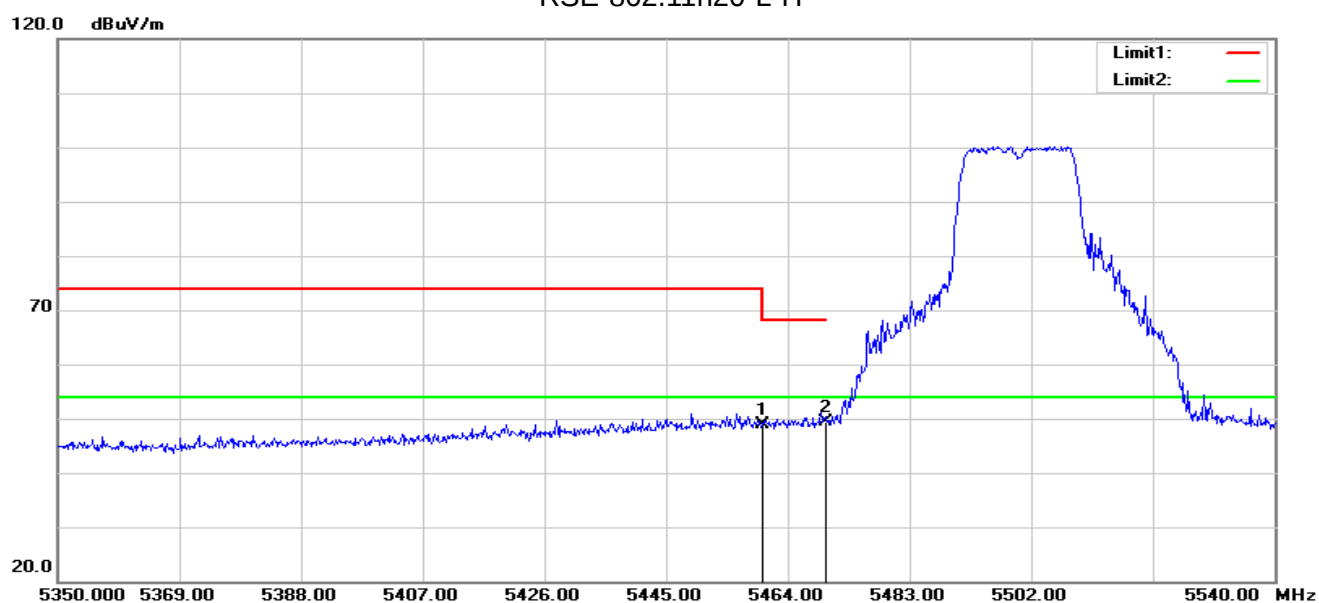
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	68.51	-5.23	63.28	74.00	-10.72	peak
2	5350.000	52.52	-5.23	47.29	54.00	-6.71	AVG
3	5353.800	67.10	-5.23	61.87	74.00	-12.13	peak
4	5353.800	49.61	-5.23	44.38	54.00	-9.62	AVG

Note: All modes have been tested. Only the worst mode shown in the report.



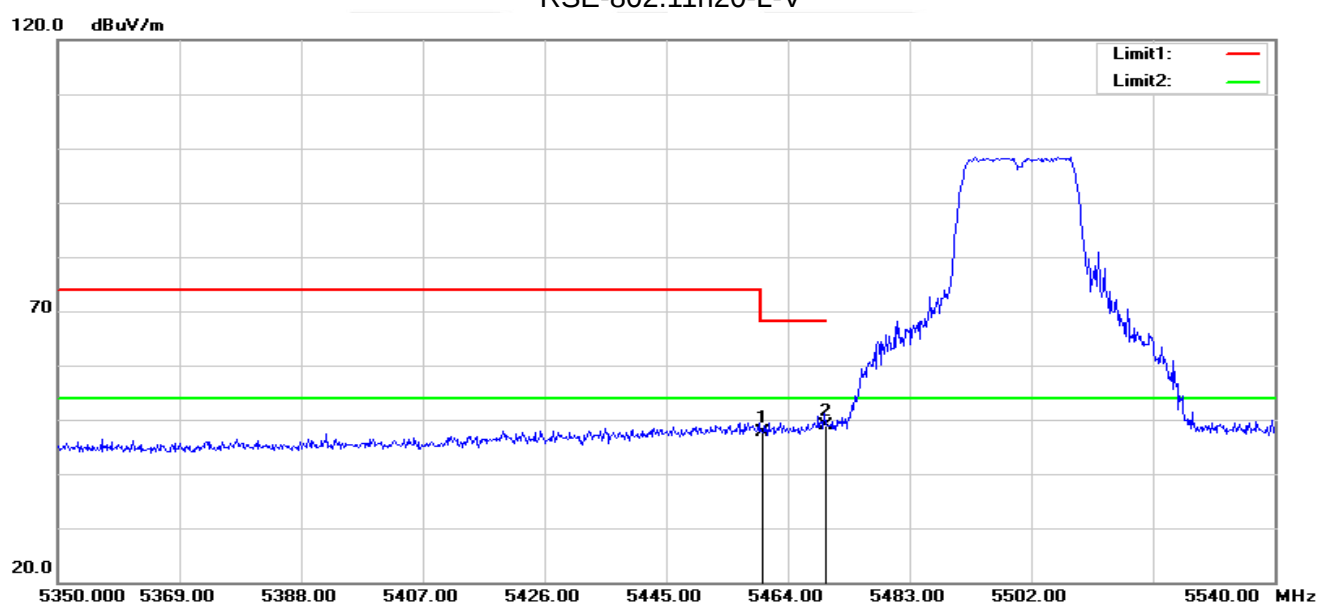
U-NII-2C 5470-5725MHz

RSE-802.11n20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	54.08	-5.11	48.97	68.20	-19.23	peak
2	5470.000	54.39	-5.09	49.30	68.20	-18.90	peak

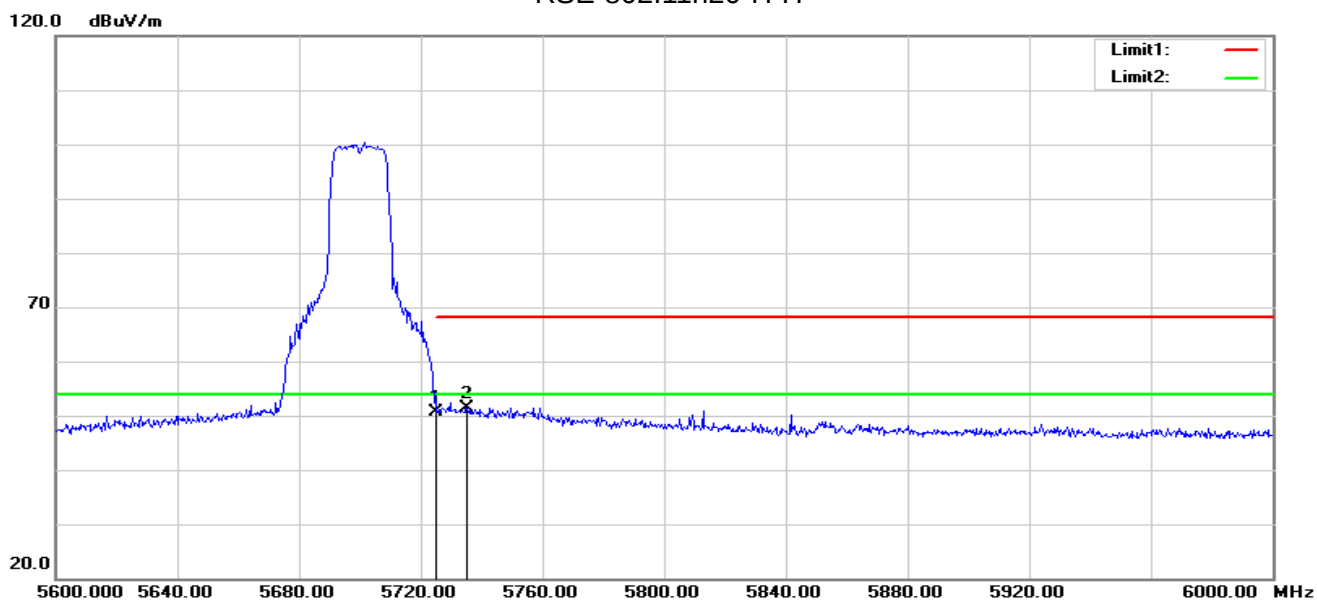
RSE-802.11n20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	52.86	-5.11	47.75	68.20	-20.45	peak
2	5470.000	53.90	-5.09	48.81	68.20	-19.39	peak

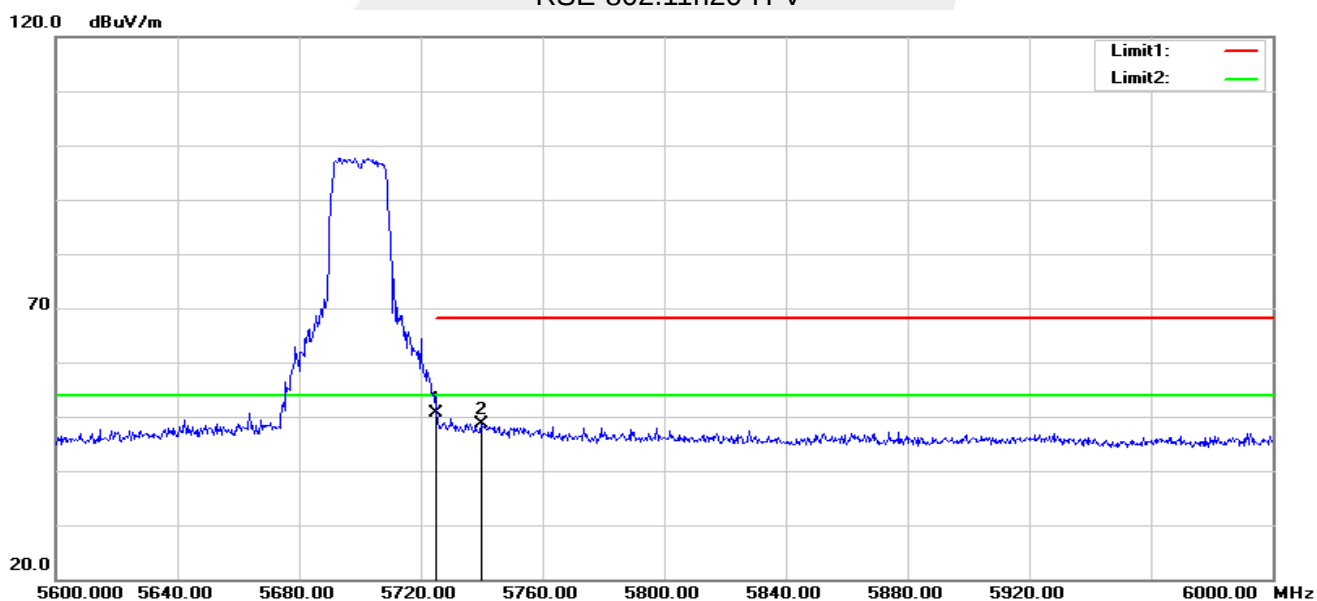


RSE-802.11n20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.26	-4.57	50.69	68.20	-17.51	peak
2	5735.200	55.99	-4.54	51.45	68.20	-16.75	peak

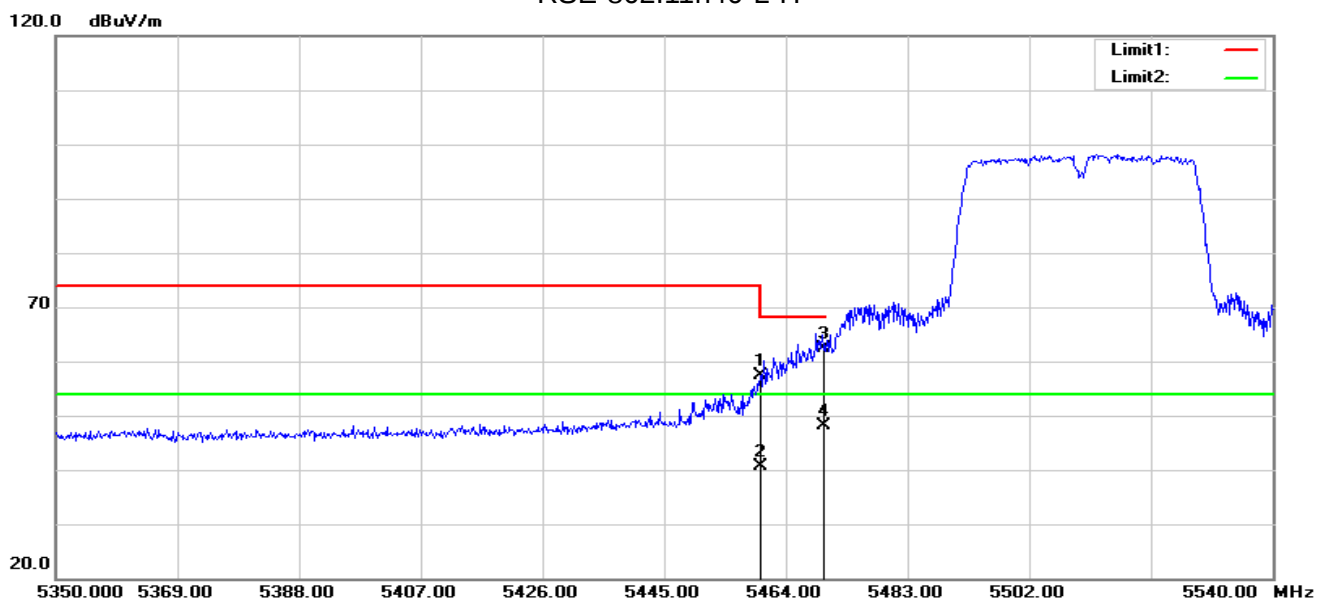
RSE-802.11n20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	55.13	-4.57	50.56	68.20	-17.64	peak
2	5740.000	53.25	-4.53	48.72	68.20	-19.48	peak

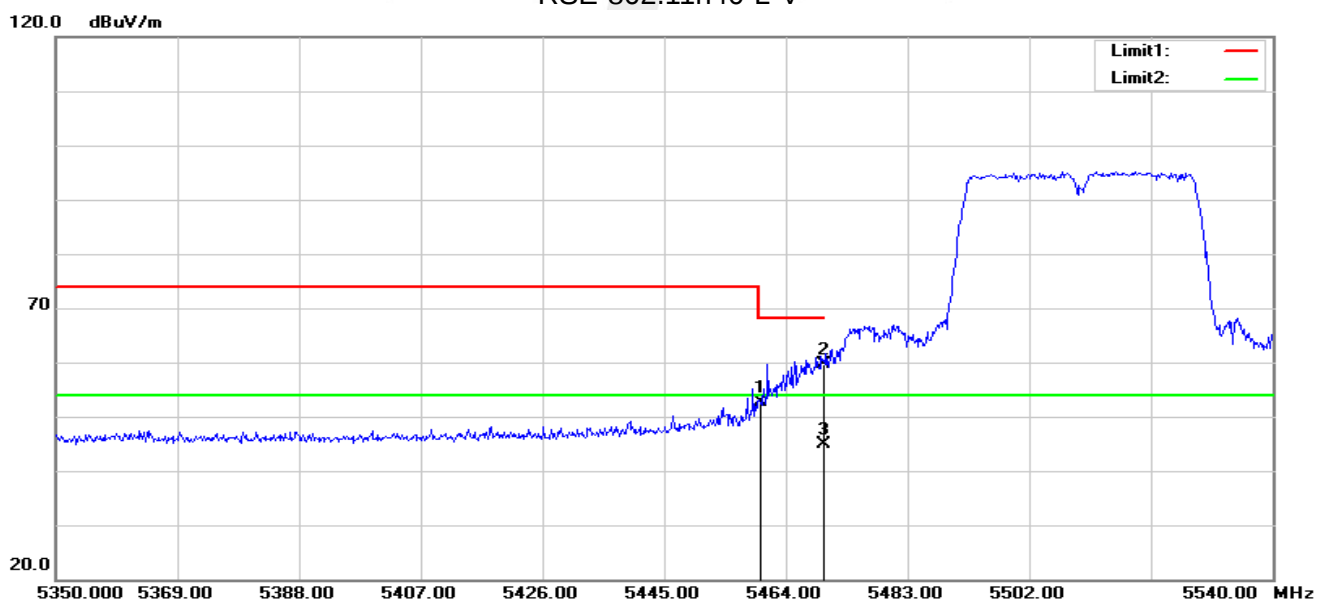


RSE-802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	62.61	-5.11	57.50	68.20	-10.70	peak
2	5460.000	45.77	-5.11	40.66	54.00	-13.34	AVG
3	5470.000	67.54	-5.09	62.45	68.20	-5.75	peak
4	5470.000	53.19	-5.09	48.10	54.00	-5.90	AVG

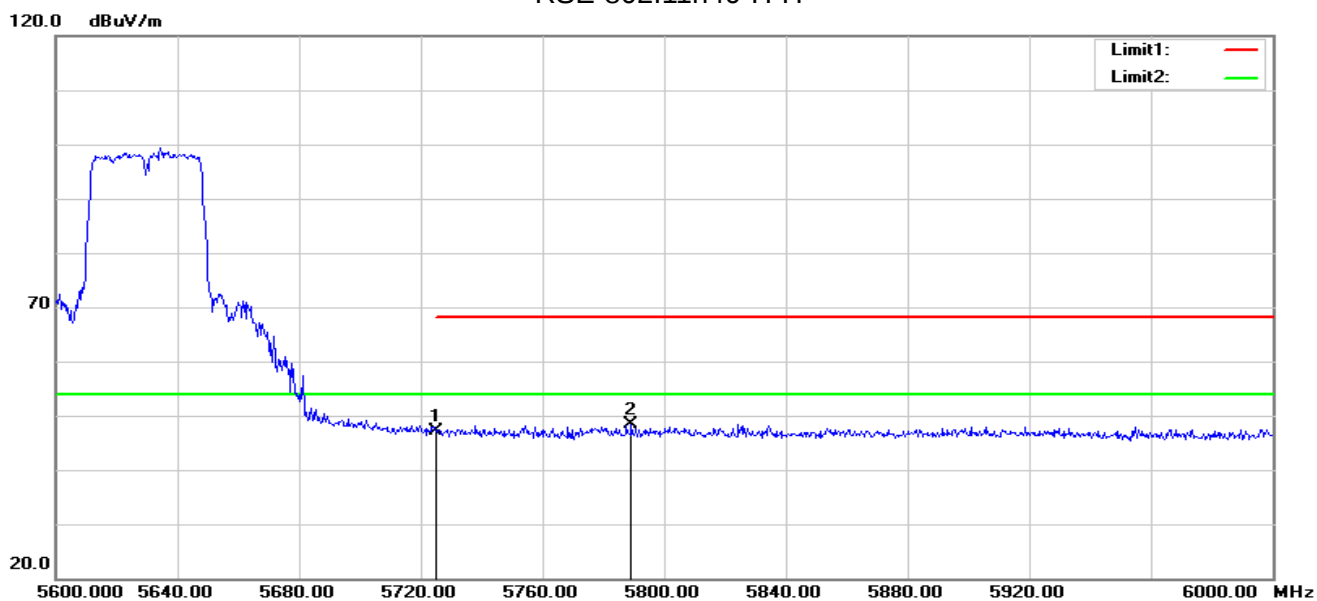
RSE-802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	57.85	-5.11	52.74	68.20	-15.46	peak
2	5470.000	64.64	-5.09	59.55	68.20	-8.65	peak
3	5470.000	50.02	-5.09	44.93	54.00	-9.07	AVG

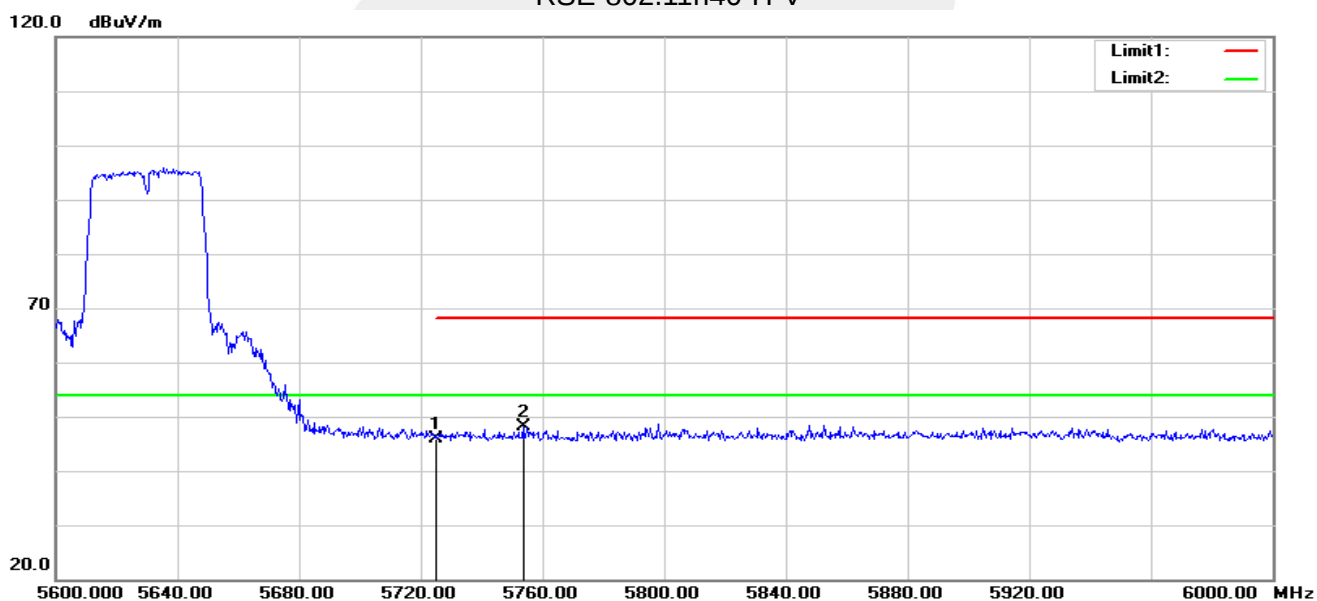


RSE-802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	51.73	-4.57	47.16	68.20	-21.04	peak
2	5789.200	52.65	-4.36	48.29	68.20	-19.91	peak

RSE-802.11n40-H-V



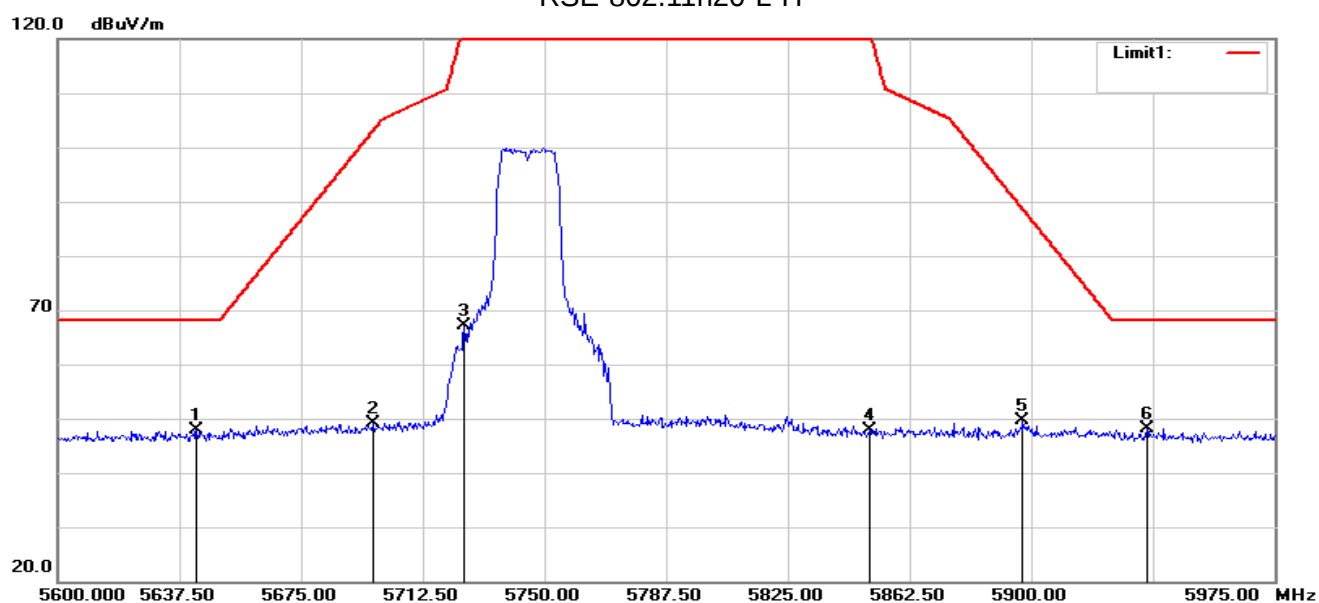
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	50.57	-4.57	46.00	68.20	-22.20	peak
2	5753.600	52.58	-4.47	48.11	68.20	-20.09	peak

Note: All modes have been tested. Only the worst mode shown in the report.



U-NII-3(5.725-5.85 GHz)

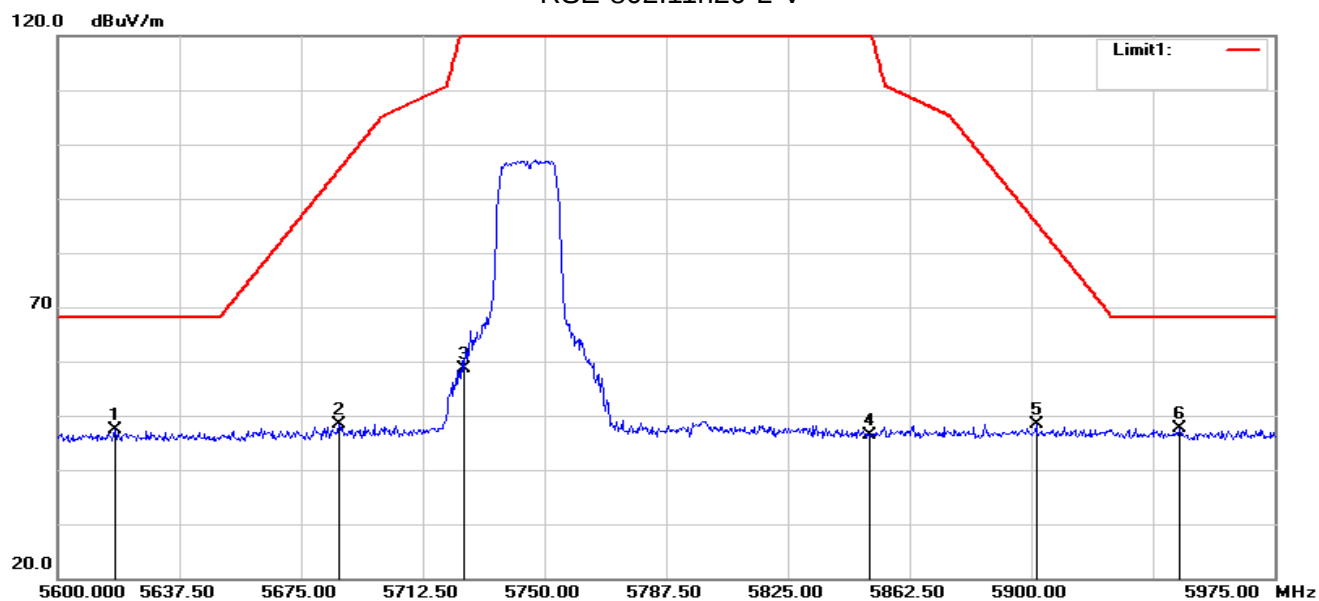
RSE-802.11n20-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.750	52.62	-4.68	47.94	68.20	-20.26	peak
2	5697.125	53.70	-4.66	49.04	103.07	-54.03	peak
3	5725.000	71.65	-4.57	67.08	122.20	-55.12	peak
4	5850.000	51.90	-4.10	47.80	122.20	-74.40	peak
5	5897.375	53.63	-3.89	49.74	88.64	-38.90	peak
6	5935.625	52.19	-3.94	48.25	68.20	-19.95	peak



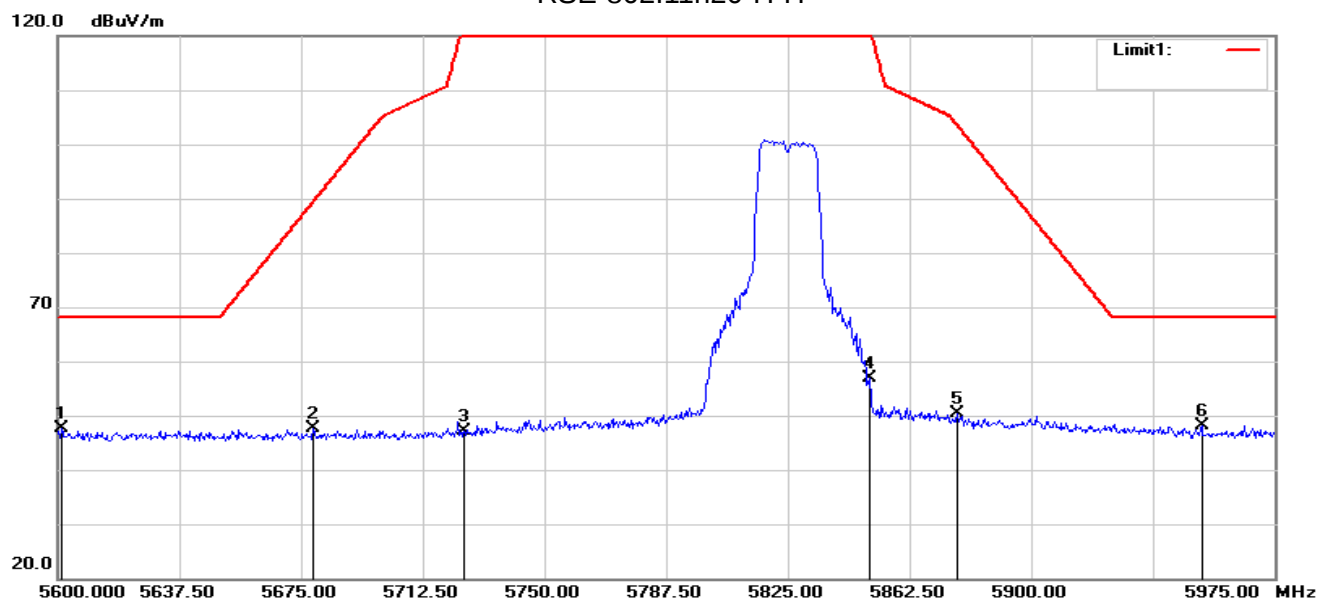
RSE-802.11n20-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5617.625	52.00	-4.69	47.31	68.20	-20.89	peak
2	5686.625	53.07	-4.66	48.41	95.30	-46.89	peak
3	5725.000	63.29	-4.57	58.72	122.20	-63.48	peak
4	5850.000	50.50	-4.10	46.40	122.20	-75.80	peak
5	5901.500	52.14	-3.88	48.26	85.59	-37.33	peak
6	5945.750	51.66	-3.96	47.70	68.20	-20.50	peak



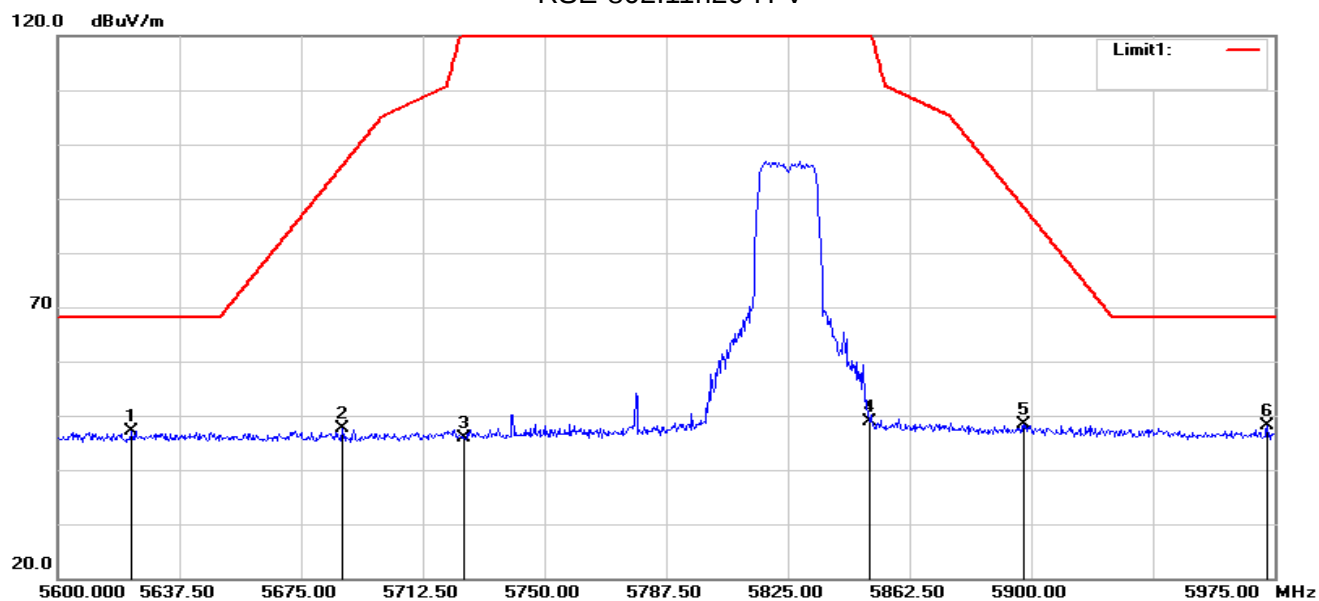
RSE-802.11n20-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5601.125	52.23	-4.70	47.53	68.20	-20.67	peak
2	5678.750	52.21	-4.66	47.55	89.48	-41.93	peak
3	5725.000	51.62	-4.57	47.05	122.20	-75.15	peak
4	5850.000	60.97	-4.10	56.87	122.20	-65.33	peak
5	5877.125	54.46	-3.98	50.48	103.63	-53.15	peak
6	5952.500	52.10	-3.97	48.13	68.20	-20.07	peak



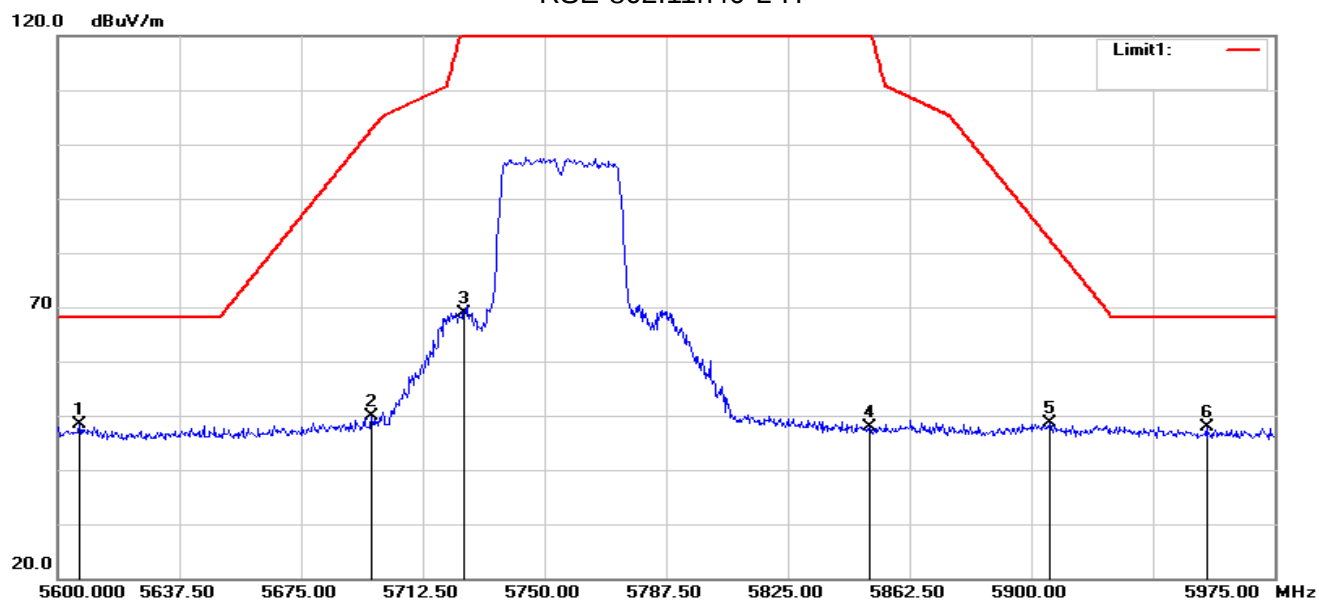
RSE-802.11n20-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5622.875	51.82	-4.69	47.13	68.20	-21.07	peak
2	5687.750	52.35	-4.67	47.68	96.14	-48.46	peak
3	5725.000	50.49	-4.57	45.92	122.20	-76.28	peak
4	5850.000	52.87	-4.10	48.77	122.20	-73.43	peak
5	5897.750	52.18	-3.89	48.29	88.37	-40.08	peak
6	5972.750	52.02	-4.00	48.02	68.20	-20.18	peak



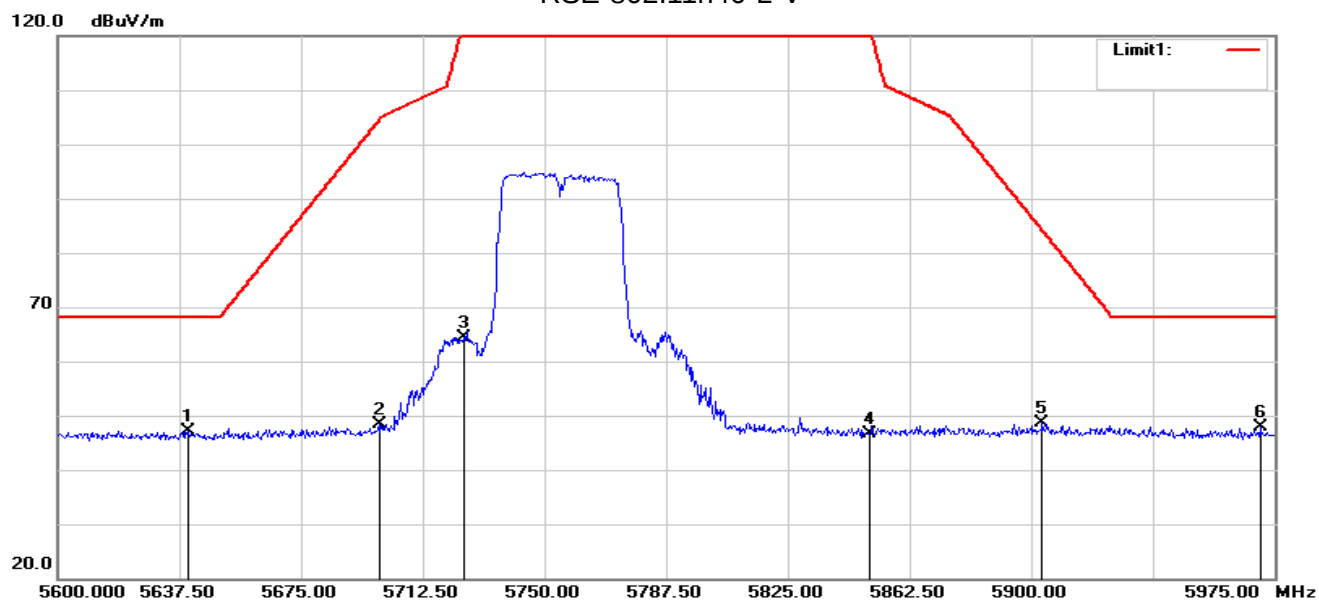
RSE-802.11n40-L-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5606.750	53.04	-4.70	48.34	68.20	-19.86	peak
2	5696.750	54.64	-4.67	49.97	102.80	-52.83	peak
3	5725.000	73.57	-4.57	69.00	122.20	-53.20	peak
4	5850.000	52.04	-4.10	47.94	122.20	-74.26	peak
5	5905.625	52.59	-3.89	48.70	82.54	-33.84	peak
6	5954.000	51.77	-3.97	47.80	68.20	-20.40	peak



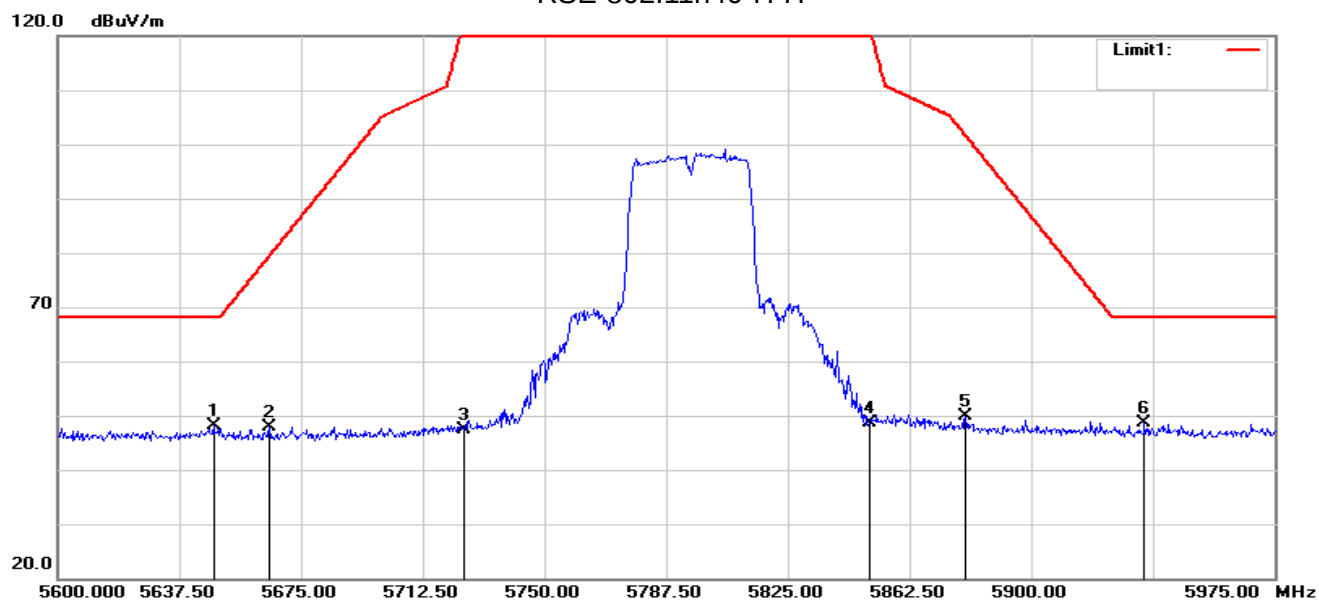
RSE-802.11n40-L-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.125	51.81	-4.69	47.12	68.20	-21.08	peak
2	5699.000	53.03	-4.66	48.37	104.46	-56.09	peak
3	5725.000	69.07	-4.57	64.50	122.20	-57.70	peak
4	5850.000	50.77	-4.10	46.67	122.20	-75.53	peak
5	5903.375	52.57	-3.88	48.69	84.20	-35.51	peak
6	5970.500	51.98	-4.00	47.98	68.20	-20.22	peak



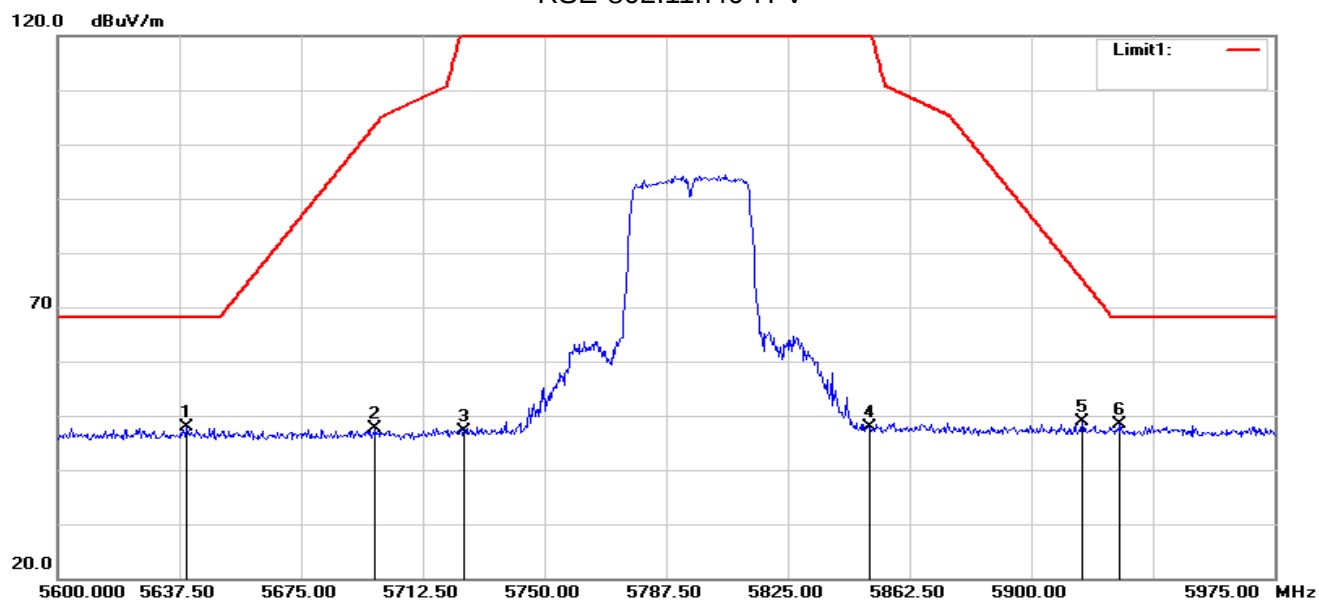
RSE-802.11n40-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.000	52.75	-4.68	48.07	68.20	-20.13	peak
2	5665.250	52.59	-4.68	47.91	79.48	-31.57	peak
3	5725.000	51.96	-4.57	47.39	122.20	-74.81	peak
4	5850.000	52.80	-4.10	48.70	122.20	-73.50	peak
5	5879.750	53.78	-3.97	49.81	101.69	-51.88	peak
6	5934.875	52.58	-3.94	48.64	68.20	-19.56	peak



RSE-802.11n40-H-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.750	52.49	-4.69	47.80	68.20	-20.40	peak
2	5697.875	52.23	-4.66	47.57	103.63	-56.06	peak
3	5725.000	51.62	-4.57	47.05	122.20	-75.15	peak
4	5850.000	52.03	-4.10	47.93	122.20	-74.27	peak
5	5915.750	52.71	-3.90	48.81	75.05	-26.24	peak
6	5927.375	52.35	-3.93	48.42	68.20	-19.78	peak

Note: All modes have been tested. Only the worst mode shown in the report.



4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set span to encompass the EBW
3. Set RBW = 1MHz.
4. Set the VBW $\geq$ 3MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



**4.6 TEST RESULTS**

U-NII 1					
Frequency (MHz)	Direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm)	Result
802.11a					
5180	6.291	0.061	6.352	11	PASS
5200	6.030	0.061	6.091	11	PASS
5240	6.163	0.061	6.224	11	PASS
802.11n20					
5180	6.492	0.083	6.575	11	PASS
5200	6.323	0.083	6.406	11	PASS
5240	5.840	0.083	5.923	11	PASS
802.11n40					
5190	2.740	0.184	2.924	11	PASS
5230	2.208	0.184	2.392	11	PASS

U-NII 2A					
Frequency (MHz)	Direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm)	Result
802.11a					
5260	5.861	0.098	5.959	11	PASS
5300	6.045	0.098	6.143	11	PASS
5320	5.831	0.098	5.929	11	PASS
802.11n20					
5260	5.318	0.079	5.397	11	PASS
5300	6.168	0.079	6.247	11	PASS
5320	5.683	0.079	5.762	11	PASS
802.11n40					
5270	2.065	0.172	2.237	11	PASS
5310	2.436	0.172	2.608	11	PASS

U-NII 2C					
Frequency (MHz)	Direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm)	Result
802.11a					
5500	4.821	0.061	4.882	11	PASS
5580	4.717	0.061	4.778	11	PASS
5700	3.977	0.061	4.038	11	PASS
802.11n20					
5500	4.404	0.065	4.469	11	PASS
5580	4.571	0.065	4.636	11	PASS
5700	4.111	0.065	4.176	11	PASS
802.11n40					
5510	1.050	0.182	1.232	11	PASS
5550	1.376	0.182	1.558	11	PASS
5670	0.368	0.182	0.550	11	PASS



U-NII 3						
Frequency (MHz)	Use RBW 510KHz direct measurement Direct measurement Power Density (dBm)	Convert to RBW 500KHz direct measurement Power Density (dBm)	Duty cycle factor (dB)	Final Power Density (dBm)	Limit (dBm/500KHz)	Result
802.11a						
5745	1.111	1.025	0.086	1.111	30	PASS
5785	0.863	0.777	0.086	0.863	30	PASS
5825	0.608	0.522	0.086	0.608	30	PASS
802.11n20						
5745	0.623	0.537	0.093	0.630	30	PASS
5785	0.930	0.844	0.093	0.937	30	PASS
5825	0.731	0.645	0.093	0.738	30	PASS
802.11n40						
5755	-2.819	-2.905	0.198	-2.707	30	PASS
5795	-3.001	-3.087	0.198	-2.889	30	PASS

Note: 1. RB conversion formula: $10 \cdot \log(500\text{KHz}/\text{RBW})$

2. Test plots see Attachment A.

5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW $\geq$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**5.1.5 TEST RESULTS**

Frequency (MHz)	26dB Bandwidth (MHz)	Result
802.11a		
5180	25.49	Pass
5200	24.66	Pass
5240	25.77	Pass
802.11n(HT20)		
5180	25.57	Pass
5200	25.74	Pass
5240	25.07	Pass
802.11n(HT40)		
5190	55.85	Pass
5230	55.19	Pass

Frequency (MHz)	26dB Bandwidth (MHz)	Result
802.11a		
5260	22.79	Pass
5300	24.43	Pass
5320	23.63	Pass
802.11n(HT20)		
5260	24.66	Pass
5300	25.54	Pass
5320	25.05	Pass
802.11n(HT40)		
5270	56.00	Pass
5310	54.13	Pass

Frequency (MHz)	26dB Bandwidth (MHz)	Result
802.11a		
5500	20.46	Pass
5580	20.20	Pass
5700	20.35	Pass
802.11n(HT20)		
5500	21.02	Pass
5580	22.53	Pass
5700	20.99	Pass
802.11n(HT40)		
5510	52.07	Pass
5550	54.17	Pass
5670	52.38	Pass



Frequency (MHz)	26dB Bandwidth (MHz)	Result
802.11a		
5745	21.28	Pass
5785	20.36	Pass
5825	20.75	Pass
802.11n(HT20)		
5745	20.61	Pass
5785	20.32	Pass
5825	20.86	Pass
802.11n(HT40)		
5755	51.27	Pass
5795	52.38	Pass

Test plot see Attachment B.



5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**5.2.5 TEST RESULTS**

Frequency (MHz)	99% Bandwidth (MHz)	Result
802.11a		
5180	16.64	Pass
5200	16.61	Pass
5240	16.60	Pass
802.11n(HT20)		
5180	17.67	Pass
5200	17.64	Pass
5240	17.65	Pass
802.11n(HT40)		
5190	36.19	Pass
5230	36.14	Pass

Frequency (MHz)	99% Bandwidth (MHz)	Result
802.11a		
5260	16.59	Pass
5300	16.60	Pass
5320	16.58	Pass
802.11n(HT20)		
5260	17.65	Pass
5300	17.65	Pass
5320	17.66	Pass
802.11n(HT40)		
5270	36.12	Pass
5310	36.14	Pass

Frequency (MHz)	99% Bandwidth (MHz)	Result
802.11a		
5500	16.55	Pass
5580	16.55	Pass
5700	16.51	Pass
802.11n(HT20)		
5500	17.61	Pass
5580	17.58	Pass
5700	17.60	Pass
802.11n(HT40)		
5510	36.07	Pass
5550	36.08	Pass
5670	36.05	Pass



Frequency (MHz)	99% Bandwidth (MHz)	Result
802.11a		
5745	16.53	Pass
5785	16.52	Pass
5825	16.53	Pass
802.11n(HT20)		
5745	17.57	Pass
5785	17.60	Pass
5825	17.59	Pass
802.11n(HT40)		
5755	36.03	Pass
5795	36.08	Pass

Test plot See Attachment B.



5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**5.3.5 TEST RESULTS**

Frequency (MHz)	6dB Bandwidth (MHz)	Result
802.11a		
5745	15.07	Pass
5785	15.13	Pass
5825	15.13	Pass
802.11n(HT20)		
5745	15.13	Pass
5785	15.13	Pass
5825	15.13	Pass
802.11n(HT40)		
5755	35.20	Pass
5795	35.18	Pass

Test plots see Attachment C.



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

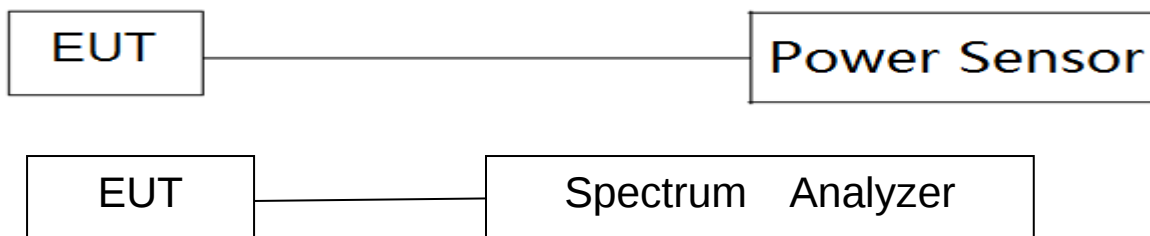
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULTS

U-NII 1					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
36	5180	10.35	0.061	10.41	23.98
40	5200	10.31	0.061	10.37	23.98
48	5240	10.25	0.061	10.31	23.98
802.11n(HT20)					
36	5180	10.42	0.083	10.50	23.98
40	5200	10.39	0.083	10.47	23.98
48	5240	10.35	0.083	10.43	23.98
802.11n(HT40)					
38	5190	10.28	0.184	10.46	23.98
46	5230	10.16	0.184	10.34	23.98

U-NII 2A					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
52	5260	10.35	0.098	10.45	23.98
60	5300	10.38	0.098	10.48	23.98
64	5320	9.68	0.098	9.78	23.98
802.11n(HT20)					
52	5260	10.52	0.079	10.60	23.98
60	5300	10.41	0.079	10.49	23.98
64	5320	10.47	0.079	10.55	23.98
802.11n(HT40)					
54	5270	10.12	0.172	10.29	23.98
62	5310	10.21	0.172	10.38	23.98

U-NII 2C					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
100	5500	8.95	0.061	9.01	23.98
116	5580	8.27	0.061	8.33	23.98
140	5700	7.72	0.061	7.78	23.98
802.11n(HT20)					
100	5500	9.10	0.065	9.17	23.98
116	5580	8.57	0.065	8.64	23.98
140	5700	7.82	0.065	7.89	23.98
802.11n(HT40)					
102	5510	8.88	0.182	9.06	23.98
110	5550	8.14	0.182	8.32	23.98
134	5670	7.53	0.182	7.71	23.98



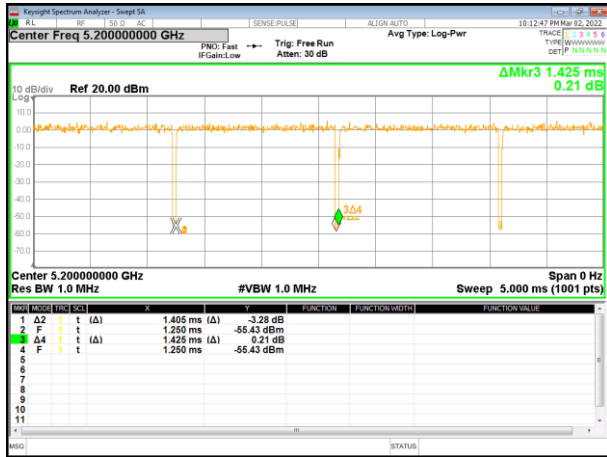
U-NII 3					
Test Channel	Frequency (MHz)	Direct measurement AV Power (dBm)	Duty cycle factor (dB)	Final AV Power (dBm)	LIMIT (dBm)
802.11a					
149	5745	7.46	0.086	7.55	30.00
157	5785	7.79	0.086	7.88	30.00
165	5825	7.61	0.086	7.70	30.00
802.11n(HT20)					
149	5745	7.54	0.093	7.63	30.00
157	5785	7.81	0.093	7.90	30.00
165	5825	7.62	0.093	7.71	30.00
802.11n(HT40)					
151	5755	7.31	0.198	7.51	30.00
159	5795	7.57	0.198	7.77	30.00



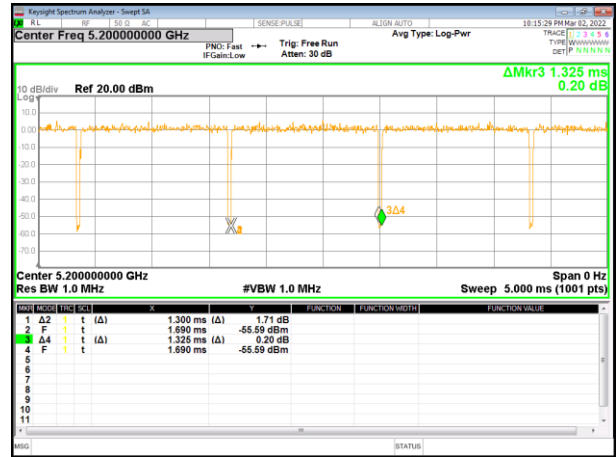


Duty Cycle

U-NII 1				
Mode	Ton (ms)	Tp (ms)	Duty cycle (%)	Duty factor (dB)
a	1.405	1.425	98.60%	0.061
n20	1.300	1.325	98.11%	0.083
n40	0.648	0.676	95.86%	0.184
U-NII 2A				
Mode	Ton (ms)	Tp (ms)	Duty cycle (%)	Duty factor (dB)
a	1.404	1.436	97.77%	0.098
n20	1.300	1.324	98.19%	0.079
n40	0.644	0.670	96.12%	0.172
U-NII 2C				
Mode	Ton (ms)	Tp (ms)	Duty cycle (%)	Duty factor (dB)
a	1.416	1.436	98.61%	0.061
n20	1.320	1.340	98.51%	0.065
n40	0.654	0.682	95.89%	0.182
U-NII 3				
Mode	Ton (ms)	Tp (ms)	Duty cycle (%)	Duty factor (dB)
a	1.400	1.428	98.04%	0.086
n20	1.296	1.324	97.89%	0.093
n40	0.642	0.672	95.54%	0.198



Band 1-a20



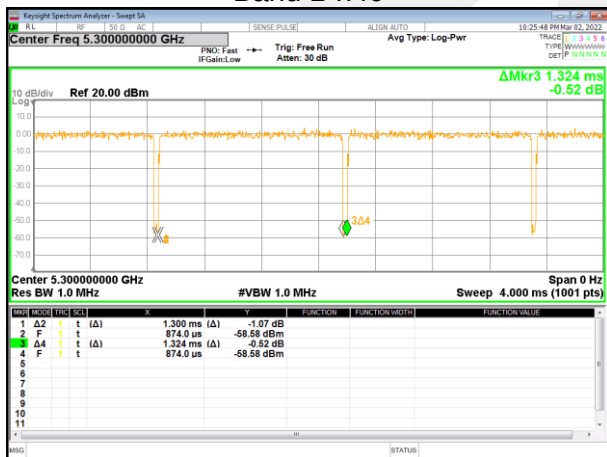
Band 1-n20



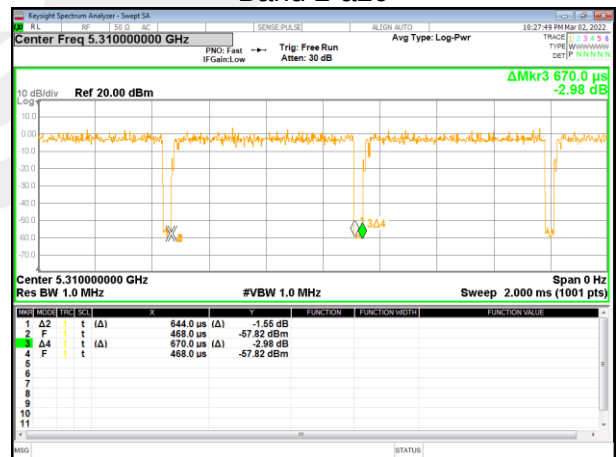
Band 1-n40



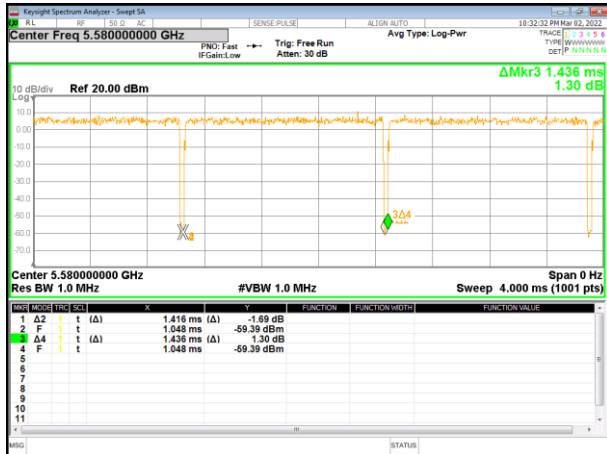
Band 2-a20



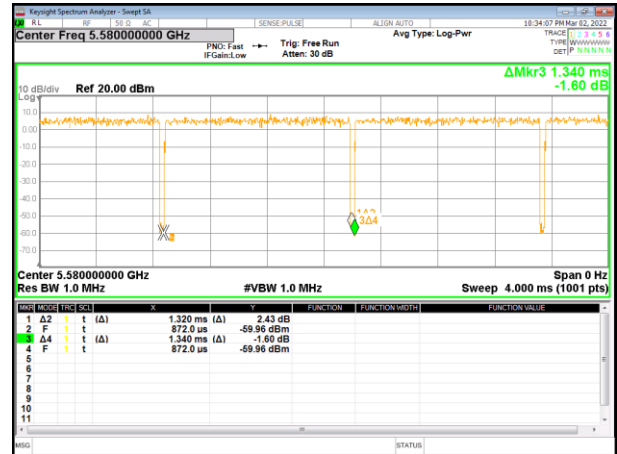
Band 2-n20



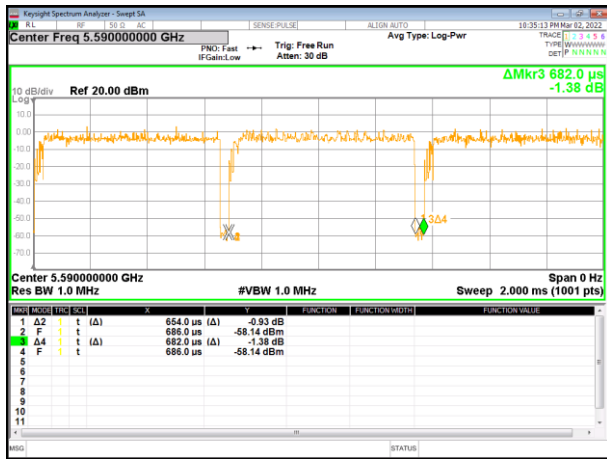
Band 2-n40



Band 3-a20



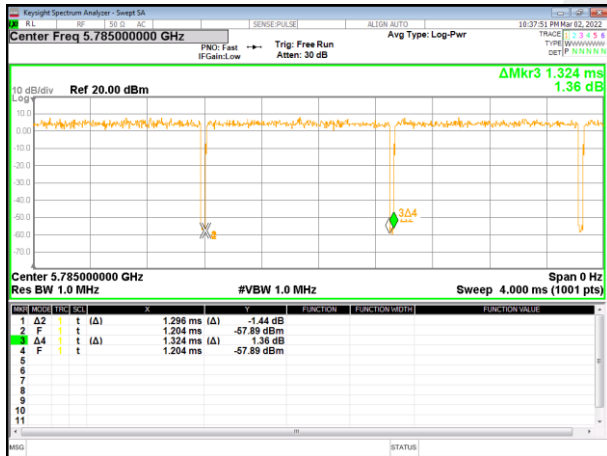
Band 3-n20



Band 3-n40



Band 4-a20



Band 4-n20



Band 4-n40



7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission





8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



**APPENDIX - PHOTOS OF TEST SETUP**

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

