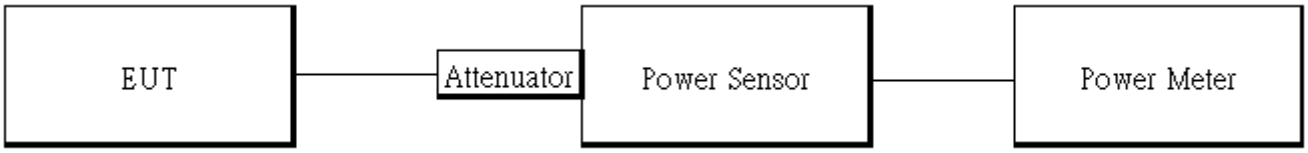
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2496A	1326001	2017/07/26	2018/07/25
Power Sensor	Anritsu	MA2411B	1315048	2017/07/26	2018/07/25
Power Sensor	Anritsu	MA2411B	1315049	2017/07/26	2018/07/25
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
Notebook	Lenovo	L430	P0000195	N/A	N/A

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	8.69	7.401	23.98	PASS
44	5220	6	8.57	7.200	23.98	PASS
48	5240	6	8.61	7.266	23.98	PASS
52	5260	6	8.57	7.200	23.98 or 11+10log(B) = 24.19	PASS
60	5300	6	8.52	7.117	23.98 or 11+10log(B) = 24.29	PASS
64	5320	6	8.49	7.068	23.98 or 11+10log(B) = 24.23	PASS
100	5500	6	8.67	7.367	23.98 or 11+10log(B) = 24.24	PASS
116	5580	6	8.75	7.499	23.98 or 11+10log(B) = 24.26	PASS
140	5700	6	8.49	7.068	23.98 or 11+10log(B) = 24.19	PASS
149	5745	6	8.69	7.401	30	PASS
157	5785	6	8.56	7.178	30	PASS
165	5825	6	8.47	7.031	30	PASS

802.11a_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	**8.77**	7.534	23.98	PASS
44	5220	6	8.66	7.350	23.98	PASS
48	5240	6	8.71	7.436	23.98	PASS
52	5260	6	8.74	7.487	23.98 or 11+10log(B) = 24.25	PASS
60	5300	6	8.72	7.453	23.98 or 11+10log(B) = 24.24	PASS
64	5320	6	**8.75**	7.504	23.98 or 11+10log(B) = 24.21	PASS
100	5500	6	8.72	7.453	23.98 or 11+10log(B) = 24.24	PASS
116	5580	6	**8.77**	7.534	23.98 or 11+10log(B) = 24.28	PASS
140	5700	6	8.74	7.487	23.98 or 11+10log(B) = 24.22	PASS
149	5745	6	**8.73**	7.470	30	PASS
157	5785	6	8.61	7.261	30	PASS
165	5825	6	8.36	6.855	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	8.93	8.39	**11.98**	15.776	23.98	PASS
44	5220	6	8.91	8.36	11.96	15.693	23.98	PASS
48	5240	6	8.87	8.32	**11.92**	15.549	23.98	PASS
52	5260	6	8.86	8.29	11.90	15.480	23.98 or 11+10log(B) = 24.19	PASS
60	5300	6	8.89	8.35	11.94	15.638	23.98 or 11+10log(B) = 24.24	PASS
64	5320	6	8.85	8.28	11.89	15.445	23.98 or 11+10log(B) = 24.21	PASS
100	5500	6	8.92	8.33	**11.95**	15.662	23.98 or 11+10log(B) = 24.24	PASS
116	5580	6	8.91	8.35	11.95	15.668	23.98 or 11+10log(B) = 24.26	PASS
140	5700	6	8.92	8.35	**11.96**	15.696	23.98 or 11+10log(B) = 24.19	PASS
149	5745	6	8.91	8.36	**11.96**	15.693	30	PASS
157	5785	6	8.87	8.31	11.91	15.524	30	PASS
165	5825	6	8.91	8.34	11.95	15.668	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.85	15.311	23.98	PASS
44	5220	MCS0	**11.89**	15.454	23.98	PASS
48	5240	MCS0	11.87	15.383	23.98	PASS
52	5260	MCS0	**11.92**	15.561	23.98 or 11+10log(B) = 24.25	PASS
60	5300	MCS0	11.87	15.383	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS0	11.86	15.347	23.98 or 11+10log(B) = 24.30	PASS
100	5500	MCS0	**11.92**	15.561	23.98 or 11+10log(B) = 24.28	PASS
116	5580	MCS0	11.88	15.417	23.98 or 11+10log(B) = 24.29	PASS
140	5700	MCS0	11.85	15.312	23.98 or 11+10log(B) = 24.28	PASS
149	5745	MCS0	**11.88**	15.418	30	PASS
157	5785	MCS0	11.83	15.241	30	PASS
165	5825	MCS0	11.80	15.136	30	PASS

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802.11n_HT20_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.78	15.066	23.98	PASS
44	5220	MCS0	11.80	15.137	23.98	PASS
48	5240	MCS0	11.82	15.207	23.98	PASS
52	5260	MCS0	11.87	15.383	23.98 or 11+10log(B) = 24.26	PASS
60	5300	MCS0	11.81	15.172	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS0	11.80	15.137	23.98 or 11+10log(B) = 24.33	PASS
100	5500	MCS0	11.91	15.525	23.98 or 11+10log(B) = 24.25	PASS
116	5580	MCS0	11.84	15.276	23.98 or 11+10log(B) = 24.31	PASS
140	5700	MCS0	11.80	15.137	23.98 or 11+10log(B) = 24.37	PASS
149	5745	MCS0	11.78	15.067	30	PASS
157	5785	MCS0	11.72	14.859	30	PASS
165	5825	MCS0	11.76	14.997	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	8.53	8.12	**11.95**	15.668	23.98	PASS
44	5220	MCS8	8.51	8.11	11.94	15.614	23.98	PASS
48	5240	MCS8	8.54	8.13	**11.96**	15.705	23.98	PASS
52	5260	MCS8	8.52	8.11	11.94	15.633	23.98 or 11+10log(B) = 24.25	PASS
60	5300	MCS8	8.47	8.06	11.89	15.454	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS8	8.5	8.1	11.93	15.578	23.98 or 11+10log(B) = 24.30	PASS
100	5500	MCS8	8.49	8.12	**11.93**	15.594	23.98 or 11+10log(B) = 24.25	PASS
116	5580	MCS8	8.49	8.12	**11.93**	15.596	23.98 or 11+10log(B) = 24.29	PASS
140	5700	MCS8	8.45	8.07	11.88	15.434	23.98 or 11+10log(B) = 24.28	PASS
149	5745	MCS8	8.49	8.08	**11.91**	15.526	30	PASS
157	5785	MCS8	8.48	8.08	11.91	15.524	30	PASS
165	5825	MCS8	8.43	8.04	11.86	15.346	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	**11.81**	15.184	23.98	PASS
46	5230	MCS0	11.80	15.149	23.98	PASS
54	5270	MCS0	11.77	15.045	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS0	**11.78**	15.080	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	11.82	15.219	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	11.79	15.114	23.98 or 11+10log(B) = 26.96	PASS
134	5670	MCS0	**11.83**	15.254	23.98 or 11+10log(B) = 26.97	PASS
151	5755	MCS0	11.84	15.289	30	PASS
159	5795	MCS0	**11.86**	15.360	30	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.59	14.434	23.98	PASS
46	5230	MCS0	11.52	14.203	23.98	PASS
54	5270	MCS0	11.58	14.401	23.98 or 11+10log(B) = 26.99	PASS
62	5310	MCS0	11.55	14.302	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS0	11.57	14.368	23.98 or 11+10log(B) = 26.95	PASS
110	5550	MCS0	11.60	14.467	23.98 or 11+10log(B) = 26.99	PASS
134	5670	MCS0	11.63	14.568	23.98 or 11+10log(B) = 26.95	PASS
151	5755	MCS0	11.65	14.635	30	PASS
159	5795	MCS0	11.53	14.236	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	7.94	7.68	**11.95**	15.654	23.98	PASS
46	5230	MCS8	7.93	7.64	11.92	15.565	23.98	PASS
54	5270	MCS8	7.95	7.71	11.97	15.725	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS8	7.96	7.72	**11.98**	15.761	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS8	7.93	7.68	**11.94**	15.635	23.98 or 11+10log(B) = 26.95	PASS
110	5550	MCS8	7.92	7.64	11.92	15.547	23.98 or 11+10log(B) = 26.96	PASS
134	5670	MCS8	7.94	7.62	11.92	15.549	23.98 or 11+10log(B) = 26.95	PASS
151	5755	MCS8	7.95	7.7	**11.96**	15.707	30	PASS
159	5795	MCS8	7.93	7.66	11.93	15.600	30	PASS

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802.11ac_VHT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	**11.76**	14.997	23.98	PASS
44	5220	MCS0	11.74	14.920	23.98	PASS
48	5240	MCS0	11.71	14.817	23.98	PASS
52	5260	MCS0	11.69	14.749	23.98 or 11+10log(B) = 24.09	PASS
60	5300	MCS0	**11.75**	14.955	23.98 or 11+10log(B) = 24.06	PASS
64	5320	MCS0	11.74	14.920	23.98 or 11+10log(B) = 24.12	PASS
100	5500	MCS0	11.68	14.715	23.98 or 11+10log(B) = 24.06	PASS
116	5580	MCS0	**11.73**	14.894	23.98 or 11+10log(B) = 24.11	PASS
140	5700	MCS0	11.67	14.682	23.98 or 11+10log(B) = 24.02	PASS
149	5745	MCS0	11.68	14.715	30	PASS
157	5785	MCS0	**11.76**	14.997	30	PASS
165	5825	MCS0	11.67	14.689	30	PASS

802.11ac_VHT20_Aux1

CH	Frequency (MHz)	Data Rate	11.60	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.60	14.454	23.98	PASS
44	5220	MCS0	11.61	14.480	23.98	PASS
48	5240	MCS0	11.59	14.414	23.98	PASS
52	5260	MCS0	11.57	14.347	23.98 or 11+10log(B) = 24.08	PASS
60	5300	MCS0	11.61	14.480	23.98 or 11+10log(B) = 24.07	PASS
64	5320	MCS0	11.62	14.514	23.98 or 11+10log(B) = 24.13	PASS
100	5500	MCS0	11.59	14.414	23.98 or 11+10log(B) = 24.14	PASS
116	5580	MCS0	11.67	14.689	23.98 or 11+10log(B) = 24.09	PASS
140	5700	MCS0	11.62	14.514	23.98 or 11+10log(B) = 24.11	PASS
149	5745	MCS0	11.61	14.480	30	PASS
157	5785	MCS0	11.69	14.757	30	PASS
165	5825	MCS0	11.60	14.454	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	8.65	8.34	11.84	15.261	23.98	PASS
44	5220	MCS8	8.66	8.39	**11.87**	15.364	23.98	PASS
48	5240	MCS8	8.61	8.35	**11.82**	15.205	23.98	PASS
52	5260	MCS8	8.59	8.33	11.80	15.136	23.98 or 11+10log(B) = 24.25	PASS
60	5300	MCS8	8.59	8.32	11.80	15.119	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS8	8.62	8.33	11.82	15.190	23.98 or 11+10log(B) = 24.30	PASS
100	5500	MCS8	8.65	8.35	**11.84**	15.278	23.98 or 11+10log(B) = 24.25	PASS
116	5580	MCS8	8.66	8.37	**11.86**	15.330	23.98 or 11+10log(B) = 24.29	PASS
140	5700	MCS8	8.61	8.3	11.80	15.121	23.98 or 11+10log(B) = 24.28	PASS
149	5745	MCS8	8.59	8.27	11.77	15.035	30	PASS
157	5785	MCS8	8.63	8.33	**11.82**	15.205	30	PASS
165	5825	MCS8	8.62	8.33	**11.82**	15.205	30	PASS

802.11ac_VHT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	**11.47**	14.027	23.98	PASS
46	5230	MCS0	11.45	13.962	23.98	PASS
54	5270	MCS0	**11.49**	14.092	23.98 or 11+10log(B) = 26.81	PASS
62	5310	MCS0	11.46	13.995	23.98 or 11+10log(B) = 26.81	PASS
102	5510	MCS0	11.43	13.898	23.98 or 11+10log(B) = 26.83	PASS
110	5550	MCS0	11.44	13.930	23.98 or 11+10log(B) = 26.84	PASS
134	5670	MCS0	**11.53**	14.222	23.98 or 11+10log(B) = 26.79	PASS
151	5755	MCS0	11.54	14.255	30	PASS
159	5795	MCS0	**11.55**	14.288	30	PASS

802.11ac_VHT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.24	13.303	23.98	PASS
46	5230	MCS0	11.26	13.365	23.98	PASS
54	5270	MCS0	11.23	13.273	23.98 or 11+10log(B) = 26.84	PASS
62	5310	MCS0	11.20	13.181	23.98 or 11+10log(B) = 26.84	PASS
102	5510	MCS0	11.17	13.091	23.98 or 11+10log(B) = 26.84	PASS
110	5550	MCS0	11.21	13.212	23.98 or 11+10log(B) = 26.83	PASS
134	5670	MCS0	11.23	13.273	23.98 or 11+10log(B) = 26.81	PASS
151	5755	MCS0	11.20	13.181	30	PASS
159	5795	MCS0	11.19	13.151	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	8.09	7.94	11.65	14.607	23.98	PASS
46	5230	MCS8	8.12	7.96	**11.67**	14.691	23.98	PASS
54	5270	MCS8	8.04	7.89	11.60	14.440	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS8	8.07	7.91	**11.62**	14.523	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS8	8.06	7.89	11.61	14.473	23.98 or 11+10log(B) = 26.95	PASS
110	5550	MCS8	8.03	7.84	11.57	14.341	23.98 or 11+10log(B) = 26.96	PASS
134	5670	MCS8	8.08	7.92	**11.63**	14.557	23.98 or 11+10log(B) = 26.95	PASS
151	5755	MCS8	8.04	7.88	11.59	14.423	30	PASS
159	5795	MCS8	8.07	7.89	**11.61**	14.490	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	**8.86**	7.695	23.98	PASS
58	5290	MCS0	**8.83**	7.642	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS0	8.85	7.677	23.98 or 11+10log(B) = 30.24	PASS
122	5610	MCS0	**8.87**	7.712	23.98 or 11+10log(B) = 30.09	PASS
155	5775	MCS0	**8.82**	7.624	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8.78	7.554	23.98	PASS
58	5290	MCS0	8.75	7.502	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS0	8.76	7.519	23.98 or 11+10log(B) = 30.26	PASS
122	5610	MCS0	8.74	7.485	23.98 or 11+10log(B) = 30.10	PASS
155	5775	MCS0	8.77	7.537	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	4.94	4.57	**8.96**	7.872	23.98	PASS
58	5290	MCS8	4.95	4.59	**8.98**	7.899	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS8	4.93	4.55	**8.95**	7.846	23.98 or 11+10log(B) = 30.24	PASS
122	5610	MCS8	4.91	4.51	8.92	7.792	23.98 or 11+10log(B) = 30.09	PASS
155	5775	MCS8	4.96	4.56	**8.97**	7.883	30	PASS

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Conducted output power (IC)

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**8.57**	7.200	23.98 or 11+10log(B) = 23.26	PASS
60	5300	8.52	7.117	23.98 or 11+10log(B) = 23.26	PASS
64	5320	8.49	7.068	23.98 or 11+10log(B) = 23.25	PASS
100	5500	8.67	7.367	23.98 or 11+10log(B) = 23.26	PASS
116	5580	**8.75**	**7.499**	23.98 or 11+10log(B) = 23.27	PASS
140	5700	**8.49**	**7.068**	23.98 or 11+10log(B) = 23.26	PASS
149	5745	**8.69**	**7.401**	30	PASS
157	5785	8.56	7.178	30	PASS
165	5825	8.47	7.031	30	PASS

802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	8.74	7.487	23.98 or 11+10log(B) = 23.24	PASS
60	5300	8.72	7.453	23.98 or 11+10log(B) = 23.26	PASS
64	5320	**8.75**	7.504	23.98 or 11+10log(B) = 23.26	PASS
100	5500	8.72	7.453	23.98 or 11+10log(B) = 23.26	PASS
116	5580	**8.77**	**7.534**	23.98 or 11+10log(B) = 23.26	PASS
140	5700	**8.74**	**7.487**	23.98 or 11+10log(B) = 23.25	PASS
149	5745	**8.73**	**7.470**	30	PASS
157	5785	8.61	7.261	30	PASS
165	5825	8.36	6.855	30	PASS

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	8.86	8.29	11.90	15.480	23.98 or 11+10log(B) = 23.24	PASS
60	5300	8.89	8.35	11.94	15.638	23.98 or 11+10log(B) = 23.26	PASS
64	5320	8.85	8.28	11.89	15.445	23.98 or 11+10log(B) = 23.25	PASS
100	5500	8.92	8.33	11.95	15.662	23.98 or 11+10log(B) = 23.26	PASS
116	5580	8.91	8.35	11.95	**15.668**	23.98 or 11+10log(B) = 23.26	PASS
140	5700	8.92	8.35	**11.96**	**15.696**	23.98 or 11+10log(B) = 23.25	PASS
149	5745	8.91	8.36	11.96	**15.693**	30.00	PASS
157	5785	8.87	8.31	11.91	15.524	30.00	PASS
165	5825	8.91	8.34	11.95	15.668	30.00	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**11.92**	**15.561**	23.98 or 11+10log(B) = 23.54	PASS
60	5300	11.87	15.383	23.98 or 11+10log(B) = 23.52	PASS
64	5320	11.86	15.347	23.98 or 11+10log(B) = 23.52	PASS
100	5500	**11.92**	**15.561**	23.98 or 11+10log(B) = 23.53	PASS
116	5580	11.88	15.417	23.98 or 11+10log(B) = 23.52	PASS
140	5700	**11.85**	**15.312**	23.98 or 11+10log(B) = 23.52	PASS
149	5745	**11.88**	**15.418**	30	PASS
157	5785	11.83	15.241	30	PASS
165	5825	11.80	15.136	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**11.87**	15.383	23.98 or 11+10log(B) = 23.53	PASS
60	5300	11.81	15.172	23.98 or 11+10log(B) = 23.53	PASS
64	5320	11.80	15.137	23.98 or 11+10log(B) = 23.52	PASS
100	5500	**11.91**	**15.525**	23.98 or 11+10log(B) = 23.51	PASS
116	5580	11.84	15.276	23.98 or 11+10log(B) = 23.52	PASS
140	5700	**11.80**	**15.137**	23.98 or 11+10log(B) = 23.53	PASS
149	5745	**11.78**	**15.067**	30	PASS
157	5785	11.72	14.859	30	PASS
165	5825	11.76	14.997	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	8.52	8.11	**11.94**	**15.633**	23.98 or 11+10log(B) = 23.53	PASS
60	5300	8.47	8.06	11.89	15.454	23.98 or 11+10log(B) = 23.52	PASS
64	5320	8.5	8.1	11.93	15.578	23.98 or 11+10log(B) = 23.52	PASS
100	5500	8.49	8.12	11.93	15.594	23.98 or 11+10log(B) = 23.51	PASS
116	5580	8.49	8.12	**11.93**	**15.596**	23.98 or 11+10log(B) = 23.52	PASS
140	5700	8.45	8.07	**11.88**	**15.434**	23.98 or 11+10log(B) = 23.52	PASS
149	5745	8.49	8.08	**11.91**	**15.526**	30.00	PASS
157	5785	8.48	8.08	11.91	15.524	30.00	PASS
165	5825	8.43	8.04	11.86	15.346	30.00	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	11.77	15.045	23.98 or 11+10log(B) = 26.57	PASS
62	5310	**11.78**	15.080	23.98 or 11+10log(B) = 26.58	PASS
102	5510	**11.82**	**15.219**	23.98 or 11+10log(B) = 26.58	PASS
110	5550	11.79	15.114	23.98 or 11+10log(B) = 26.57	PASS
134	5670	**11.83**	**15.254**	23.98 or 11+10log(B) = 26.58	PASS
151	5755	11.84	15.289	30	PASS
159	5795	**11.86**	**15.360**	30	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**11.58**	14.401	23.98 or 11+10log(B) = 26.58	PASS
62	5310	11.55	14.302	23.98 or 11+10log(B) = 26.58	PASS
102	5510	11.57	14.368	23.98 or 11+10log(B) = 26.58	PASS
110	5550	**11.60**	**14.467**	23.98 or 11+10log(B) = 26.58	PASS
134	5670	**11.63**	**14.568**	23.98 or 11+10log(B) = 26.58	PASS
151	5755	**11.65**	**14.635**	30	PASS
159	5795	11.53	14.236	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	7.95	7.71	11.97	15.725	23.98 or 11+10log(B) = 26.57	PASS
62	5310	7.96	7.72	**11.98**	**15.761**	23.98 or 11+10log(B) = 26.58	PASS
102	5510	7.93	7.68	**11.94**	**15.635**	23.98 or 11+10log(B) = 26.58	PASS
110	5550	7.92	7.64	11.92	15.547	23.98 or 11+10log(B) = 26.57	PASS
134	5670	7.94	7.62	**11.92**	**15.549**	23.98 or 11+10log(B) = 26.58	PASS
151	5755	7.95	7.7	**11.96**	**15.707**	30.00	PASS
159	5795	7.93	7.66	11.93	15.600	30.00	PASS

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802.11ac_VHT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	11.69	14.749	23.98	or 11+10log(B) =	23.55	PASS
60	5300	**11.75**	14.955	23.98	or 11+10log(B) =	23.53	PASS
64	5320	11.74	14.920	23.98	or 11+10log(B) =	23.52	PASS
100	5500	11.68	14.715	23.98	or 11+10log(B) =	23.54	PASS
116	5580	**11.73**	**14.894**	23.98	or 11+10log(B) =	23.53	PASS
140	5700	**11.67**	**14.682**	23.98	or 11+10log(B) =	23.52	PASS
149	5745	11.68	14.715	30			PASS
157	5785	**11.76**	**14.997**	30			PASS
165	5825	11.67	14.689	30			PASS

802.11ac_VHT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	11.57	14.347	23.98	or 11+10log(B) =	23.54	PASS
60	5300	11.61	14.480	23.98	or 11+10log(B) =	23.54	PASS
64	5320	**11.62**	14.514	23.98	or 11+10log(B) =	23.54	PASS
100	5500	11.59	14.414	23.98	or 11+10log(B) =	23.52	PASS
116	5580	**11.67**	**14.689**	23.98	or 11+10log(B) =	23.54	PASS
140	5700	**11.62**	**14.514**	23.98	or 11+10log(B) =	23.51	PASS
149	5745	11.61	14.480	30			PASS
157	5785	**11.69**	**14.757**	30			PASS
165	5825	11.60	14.454	30			PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
		CH 0	CH 1						
52	5260	8.59	8.33	11.80	15.136	23.98	or 11+10log(B) =	23.53	PASS
60	5300	8.59	8.32	11.80	15.119	23.98	or 11+10log(B) =	23.52	PASS
64	5320	8.62	8.33	11.82	15.190	23.98	or 11+10log(B) =	23.52	PASS
100	5500	8.65	8.35	11.84	15.278	23.98	or 11+10log(B) =	23.51	PASS
116	5580	8.66	8.37	**11.86**	**15.330**	23.98	or 11+10log(B) =	23.52	PASS
140	5700	8.61	8.3	**11.80**	**15.121**	23.98	or 11+10log(B) =	23.52	PASS
149	5745	8.59	8.27	11.77	15.035	30.00			PASS
157	5785	8.63	8.33	**11.82**	**15.205**	30.00			PASS
165	5825	8.62	8.33	**11.82**	**15.205**	30.00			PASS

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802.11ac_VHT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
54	5270	**11.49**	14.092	23.98	or 11+10log(B) =	26.58	PASS
62	5310	11.46	13.995	23.98	or 11+10log(B) =	26.58	PASS
102	5510	11.43	13.898	23.98	or 11+10log(B) =	26.58	PASS
110	5550	**11.44**	**13.930**	23.98	or 11+10log(B) =	26.57	PASS
134	5670	**11.53**	**14.222**	23.98	or 11+10log(B) =	26.58	PASS
151	5755	11.54	14.255	30			PASS
159	5795	**11.55**	**14.288**	30			PASS

802.11ac_VHT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
54	5270	**11.23**	**13.273**	23.98	or 11+10log(B) =	26.57	PASS
62	5310	11.20	13.181	23.98	or 11+10log(B) =	26.58	PASS
102	5510	11.17	13.091	23.98	or 11+10log(B) =	26.58	PASS
110	5550	**11.21**	**13.212**	23.98	or 11+10log(B) =	26.58	PASS
134	5670	**11.23**	**13.273**	23.98	or 11+10log(B) =	26.58	PASS
151	5755	**11.20**	**13.181**	30			PASS
159	5795	11.19	13.151	30			PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
		CH 0	CH 1						
54	5270	8.04	7.89	11.60	14.440	23.98	or 11+10log(B) =	26.57	PASS
62	5310	8.07	7.91	11.62	14.523	23.98	or 11+10log(B) =	26.58	PASS
102	5510	8.06	7.89	**11.61**	**14.473**	23.98	or 11+10log(B) =	26.58	PASS
110	5550	8.03	7.84	11.57	14.341	23.98	or 11+10log(B) =	26.57	PASS
134	5670	8.08	7.92	**11.63**	**14.557**	23.98	or 11+10log(B) =	26.58	PASS
151	5755	8.04	7.88	11.59	14.423	30.00			PASS
159	5795	8.07	7.89	**11.61**	**14.490**	30.00			PASS

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802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**8.83**	7.642	23.98 or 11+10log(B) = 29.78	PASS
106	5530	**8.85**	**7.677**	23.98 or 11+10log(B) = 29.78	PASS
155	5775	**8.82**	**7.624**	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**8.75**	7.502	23.98 or 11+10log(B) = 29.78	PASS
106	5530	**8.76**	**7.519**	23.98 or 11+10log(B) = 29.78	PASS
155	5775	**8.77**	**7.537**	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	4.95	4.59	**8.98**	**7.899**	23.98 or 11+10log(B) = 29.78	PASS
106	5530	4.93	4.55	**8.95**	**7.846**	23.98 or 11+10log(B) = 29.78	PASS
155	5775	4.96	4.56	**8.97**	**7.883**	30.00	PASS

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EIRP

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	**11.98**	4.980	**16.96**	**49.659**	23.01	or 10+10log(B)=	22.25	PASS
44	5220	11.96	4.980	16.94	49.399	23.01	or 10+10log(B)=	22.25	PASS
48	5240	11.92	4.980	16.90	48.946	23.01	or 10+10log(B)=	22.25	PASS
52	5260	11.90	4.260	16.16	41.284	30	or 17+10log(B)=	29.24	PASS
60	5300	**11.94**	4.260	**16.20**	**41.705**	30	or 17+10log(B)=	29.26	PASS
64	5320	11.89	4.260	16.15	41.189	30	or 17+10log(B)=	29.25	PASS
100	5500	11.95	4.320	16.27	42.349	30	or 17+10log(B)=	29.26	PASS
116	5580	**11.95**	4.320	**16.27**	**42.364**	30	or 17+10log(B)=	29.26	PASS
140	5700	**11.96**	4.320	**16.28**	**42.440**	30	or 17+10log(B)=	29.25	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	11.95	4.980	16.93	49.317	23.01	or 10+10log(B)=	22.51	PASS
44	5220	11.94	4.980	16.92	49.150	23.01	or 10+10log(B)=	22.51	PASS
48	5240	**11.96**	4.980	**16.94**	**49.436**	23.01	or 10+10log(B)=	22.51	PASS
52	5260	**11.94**	4.260	**16.20**	**41.691**	30	or 17+10log(B)=	29.53	PASS
60	5300	11.89	4.260	16.15	41.214	30	or 17+10log(B)=	29.52	PASS
64	5320	11.93	4.260	16.19	41.545	30	or 17+10log(B)=	29.52	PASS
100	5500	11.93	4.320	16.25	42.165	30	or 17+10log(B)=	29.51	PASS
116	5580	**11.93**	4.320	**16.25**	**42.170**	30	or 17+10log(B)=	29.52	PASS
140	5700	**11.88**	4.320	**16.20**	**41.733**	30	or 17+10log(B)=	29.52	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	**11.95**	4.980	**16.93**	**49.274**	23.01	or 10+10log(B)=	25.58	PASS
46	5230	11.92	4.980	16.90	48.996	23.01	or 10+10log(B)=	25.58	PASS
54	5270	11.97	4.260	16.23	41.936	30	or 17+10log(B)=	32.57	PASS
62	5310	**11.98**	4.260	**16.24**	**42.032**	30	or 17+10log(B)=	32.58	PASS
102	5510	**11.94**	4.320	**16.26**	**42.277**	30	or 17+10log(B)=	32.58	PASS
110	5550	11.92	4.320	16.24	42.038	30	or 17+10log(B)=	32.57	PASS
134	5670	**11.92**	4.320	**16.24**	**42.045**	30	or 17+10log(B)=	32.58	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)		REQUIRED LIMIT (dBm)			RESULT
42	5210	**8.96**	4.980	**13.94**	**24.781**	23.01	or 10+10log(B)=	28.78	PASS
58	5290	**8.98**	4.260	**13.24**	**21.066**	30	or 17+10log(B)=	35.78	PASS
106	5530	**8.95**	4.320	**13.27**	**21.214**	30	or 17+10log(B)=	35.78	PASS

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CDD Mode

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	8.11	7.89	11.62	14.521	23.98	PASS
44	5220	MCS8	8.38	7.82	**11.73**	14.894	23.98	PASS
48	5240	MCS8	8.21	7.89	11.67	14.689	23.98	PASS
52	5260	MCS8	8.28	7.87	**11.70**	14.791	23.98 or 11+10log(B) = 24.25	PASS
60	5300	MCS8	8.13	7.78	11.58	14.388	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS8	8.12	7.71	11.54	14.256	23.98 or 11+10log(B) = 24.30	PASS
100	5500	MCS8	8.14	7.83	**11.61**	14.488	23.98 or 11+10log(B) = 24.25	PASS
116	5580	MCS8	8.10	7.70	11.53	14.223	23.98 or 11+10log(B) = 24.29	PASS
140	5700	MCS8	8.07	7.78	**11.55**	14.289	23.98 or 11+10log(B) = 24.28	PASS
149	5745	MCS8	8.18	7.72	11.58	14.388	30	PASS
157	5785	MCS8	8.19	7.73	**11.91**	15.524	30	PASS
165	5825	MCS8	8.12	7.68	11.86	15.346	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	7.58	7.25	11.55	14.289	23.98	PASS
46	5230	MCS8	7.62	7.23	**11.56**	14.322	23.98	PASS
54	5270	MCS8	7.57	7.35	11.60	14.454	23.98 or 11+10log(B) = 26.97	PASS
62	5310	MCS8	7.67	7.33	**11.64**	14.588	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS8	7.58	7.4	**11.63**	14.555	23.98 or 11+10log(B) = 26.95	PASS
110	5550	MCS8	7.61	7.33	11.61	14.488	23.98 or 11+10log(B) = 26.96	PASS
134	5670	MCS8	7.62	7.31	11.60	14.454	23.98 or 11+10log(B) = 26.95	PASS
151	5755	MCS8	7.57	7.32	11.58	14.388	30	PASS
159	5795	MCS8	7.58	7.37	**11.61**	14.488	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	4.65	4.22	**8.64**	7.311	23.98	PASS
58	5290	MCS8	4.64	4.28	**8.67**	7.362	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS8	4.55	4.22	8.59	7.228	23.98 or 11+10log(B) = 30.24	PASS
122	5610	MCS8	4.62	4.19	**8.61**	7.261	23.98 or 11+10log(B) = 30.09	PASS
155	5775	MCS8	4.68	4.18	**8.64**	7.311	30	PASS

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit 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.

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10.2 Measurement Procedure

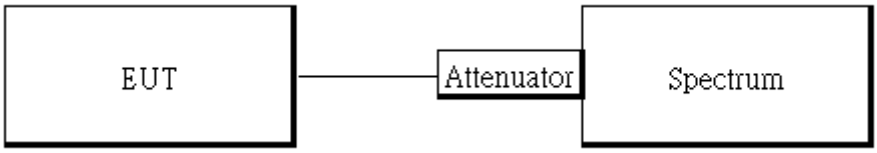
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:
   Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
   For U-NII-3 Band:
   Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF81	2017/12/26	2018/12/25
Notebook	Lenovo	L430	P0000195	N/A	N/A

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)+3.01dB offset	Limit (dBm)	Margin (dB)
5180	-2.16	0.30	1.15	11	-9.85
5220	-2.71	0.30	0.60	11	-10.40
5240	-2.63	0.30	0.68	11	-10.32
5260	-3.90	0.30	-0.59	11	-11.59
5300	-3.01	0.30	0.30	11	-10.70
5320	-3.39	0.30	-0.08	11	-11.08
5500	-1.52	0.30	1.79	11	-9.21
5580	-0.02	0.30	3.29	11	-7.71
5700	-1.73	0.30	1.58	11	-9.42
5745	3.54	0.30	6.55	30	-23.45
5785	2.84	0.30	5.85	30	-24.15
5825	3.20	0.30	6.21	30	-23.79

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)+3.01dB offset	Limit (dBm)	Margin (dB)
5180	-4.13	0.61	-0.51	11	-11.51
5220	-4.52	0.61	-0.90	11	-11.90
5240	-2.84	0.61	0.78	11	-10.22
5260	-6.38	0.61	-2.76	11	-13.76
5300	-5.27	0.61	-1.65	11	-12.65
5320	-2.96	0.61	0.66	11	-10.34
5500	-5.43	0.61	-1.81	11	-12.81
5580	-3.54	0.61	0.08	11	-10.92
5700	-3.68	0.61	-0.06	11	-11.06
5745	3.34	0.61	6.35	30	-23.65
5785	3.54	0.61	6.55	30	-23.45
5825	3.16	0.61	6.17	30	-23.83

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)+3.01dB offset	Limit (dBm)	Margin (dB)
5190	-11.87	1.12	-7.74	11	-18.74
5230	-12.67	1.12	-8.54	11	-19.54
5270	-9.76	1.12	-5.63	11	-16.63
5310	-12.93	1.12	-8.80	11	-19.80
5510	-10.34	1.12	-6.21	11	-17.21
5550	-11.57	1.12	-7.44	11	-18.44
5670	-12.31	1.12	-8.18	11	-19.18
5755	0.57	1.12	3.58	30	-26.42
5795	0.39	1.12	3.40	30	-26.60

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)+3.01dB offset	Limit (dBm)	Margin (dB)
5210	-18.48	1.19	-14.28	11	-25.28
5290	-17.51	1.19	-13.31	11	-24.31
5530	-14.48	1.19	-10.28	11	-21.28
5610	-15.07	1.19	-10.87	11	-21.87
5775	-5.73	1.19	-2.72	30	-32.72

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	1.15	4.98	6.13	10	-8.85
5220	0.60	4.98	5.58	10	-9.40
5240	0.68	4.98	5.66	10	-9.32

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.51	4.98	4.47	10	-10.51
5220	-0.90	4.98	4.08	10	-10.90
5240	0.78	4.98	5.76	10	-9.22

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-7.74	4.98	-2.76	10	-17.74
5220	-8.54	4.98	-3.56	10	-18.54

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-14.28	4.98	-9.30	10	-24.28

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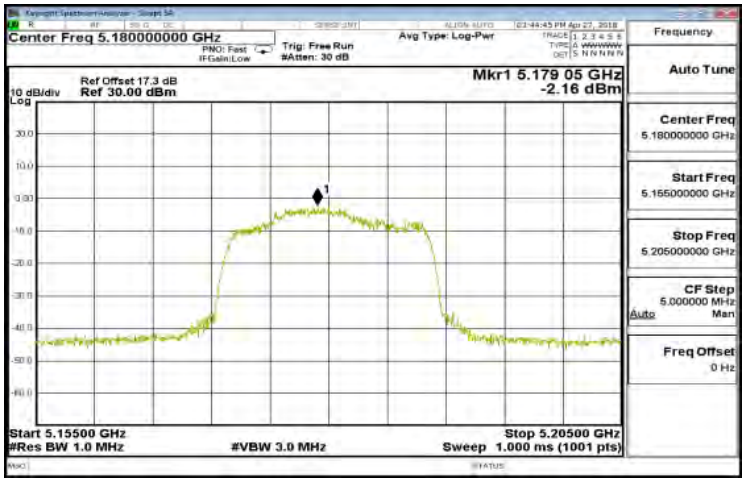
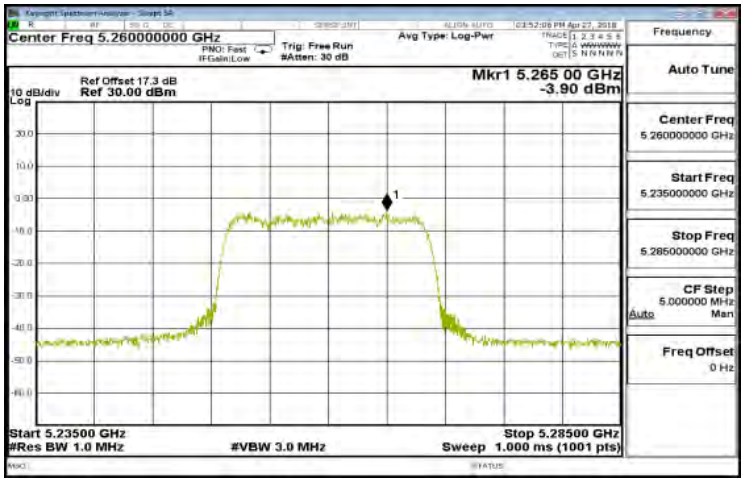
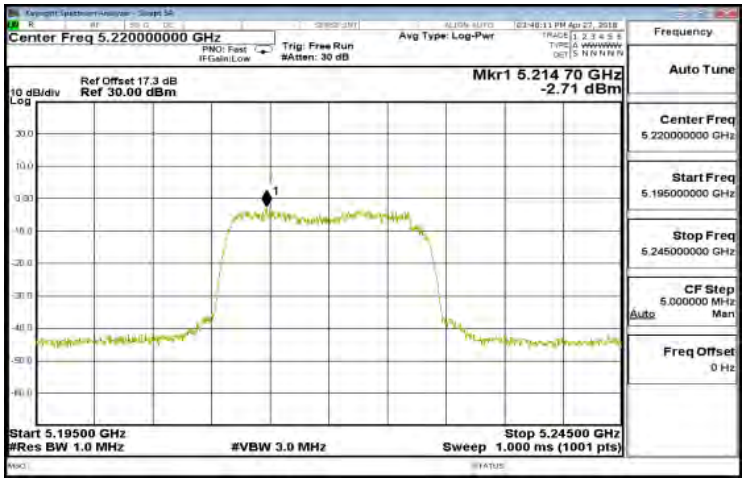
802.11a_20MHz_5180MHz



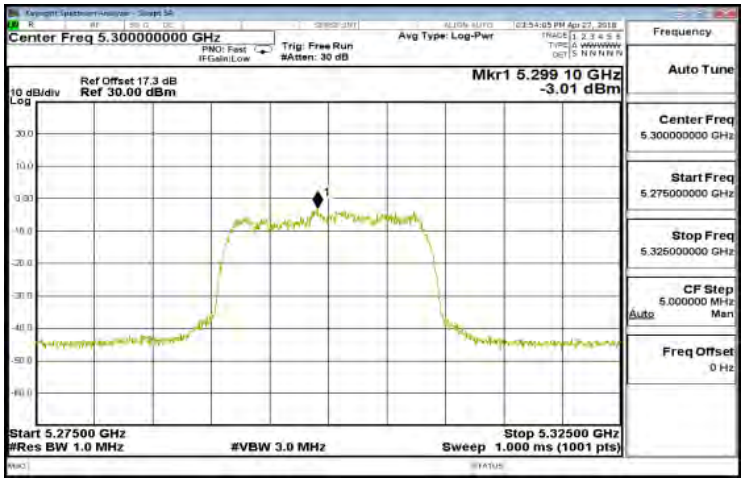
802.11a_20MHz_5260MHz



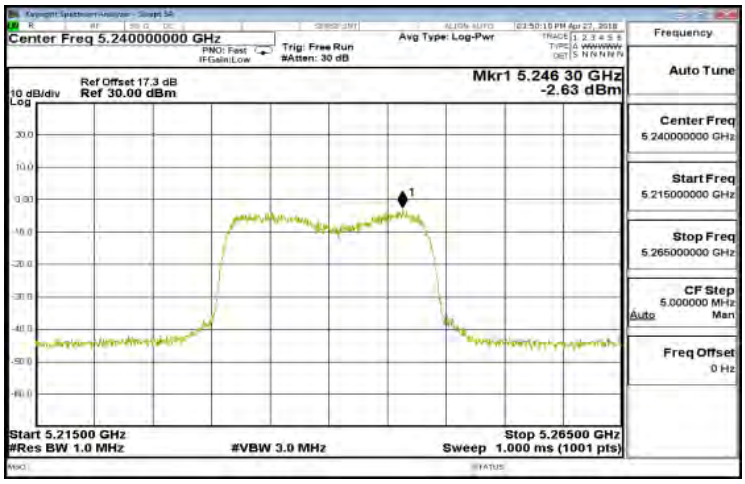
802.11a_20MHz_5220MHz



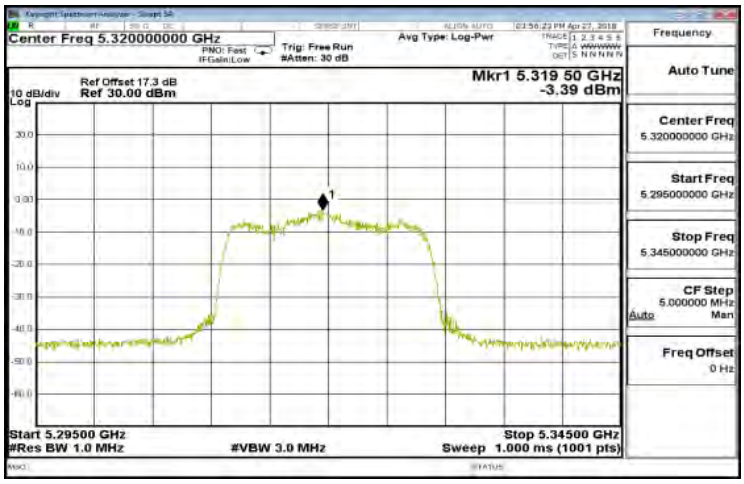
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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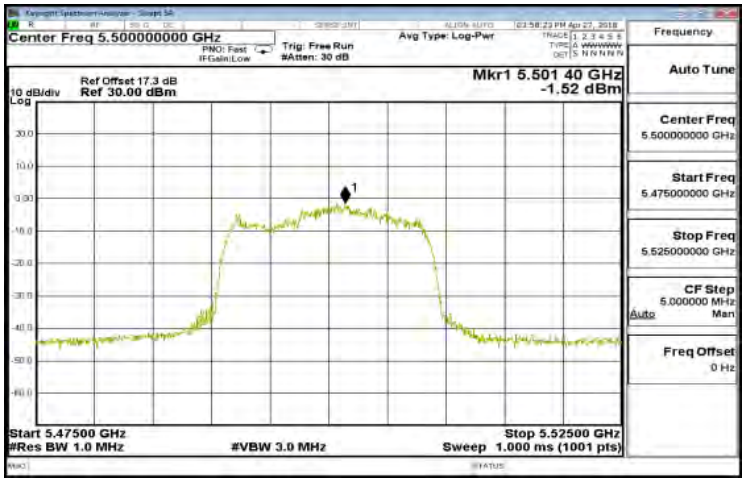
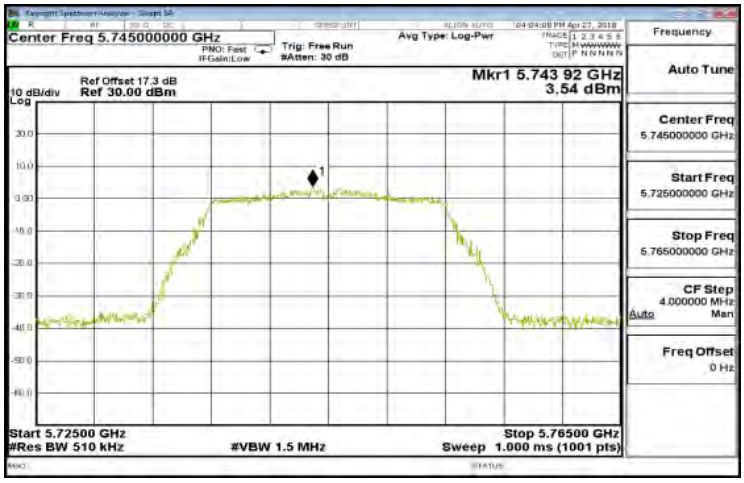
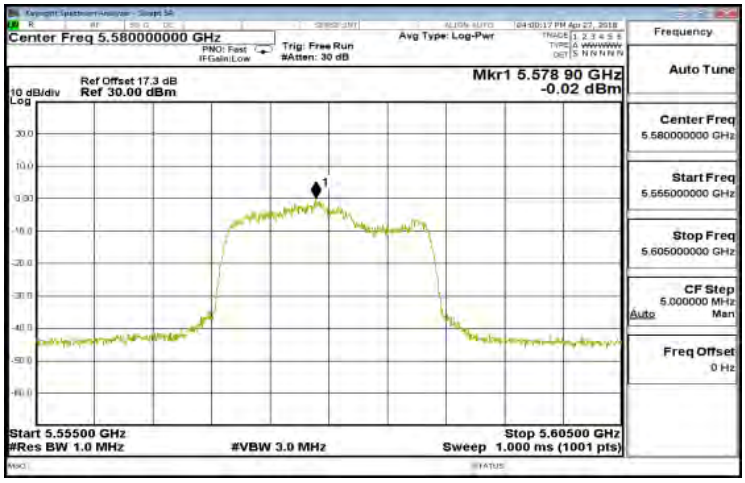
802.11a_20MHz_5500MHz



802.11a_20MHz_5745MHz

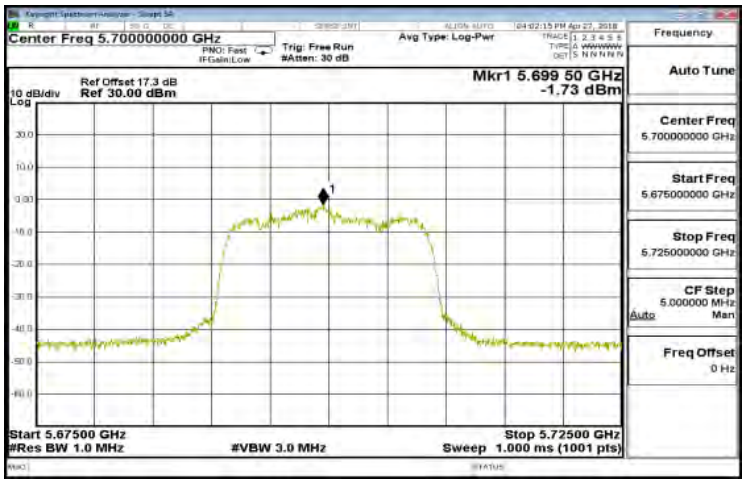


802.11a_20MHz_5580MHz



802.11a_20MHz_5785MHz

802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz

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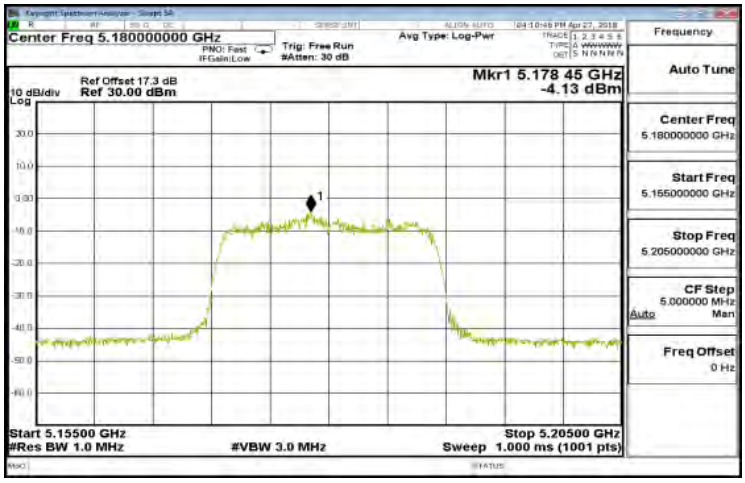
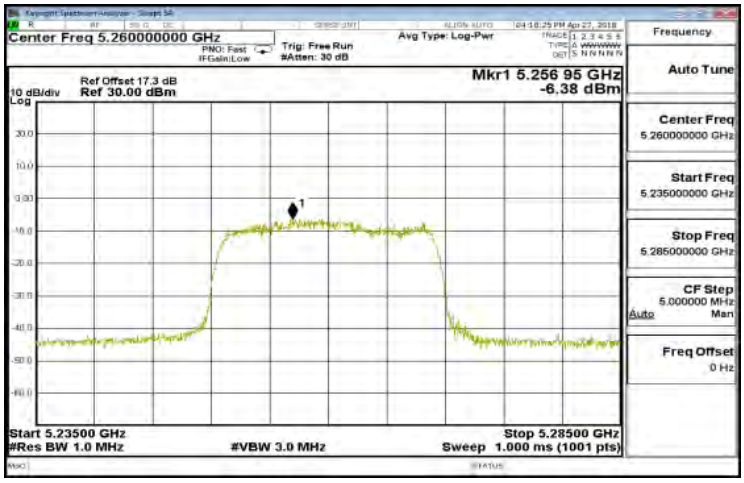
802.11n_20MHz_5180MHz

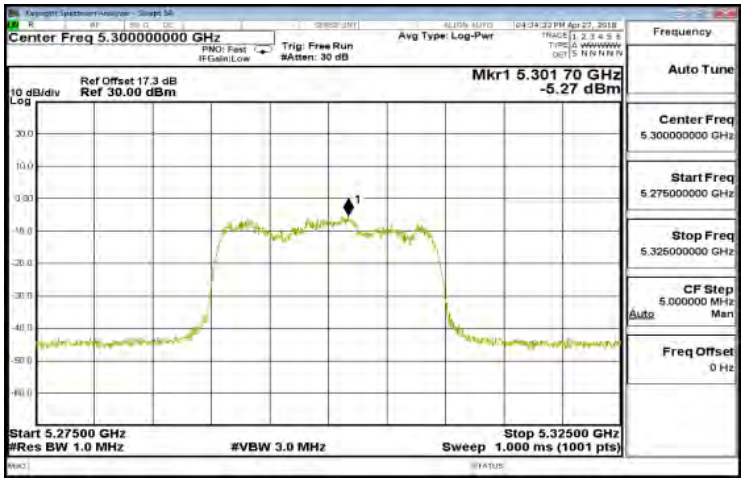


802.11n_20MHz_5260MHz

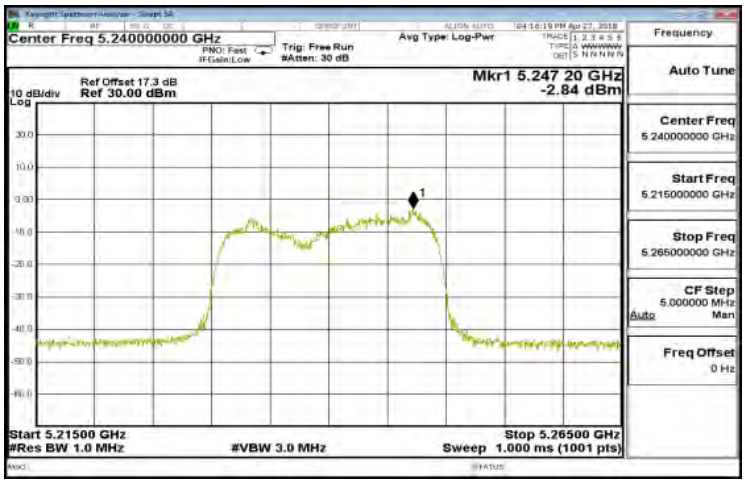


802.11n_20MHz_5220MHz

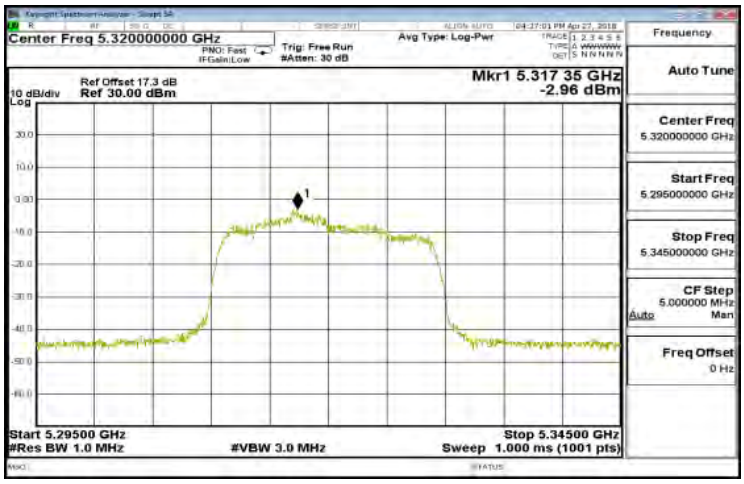
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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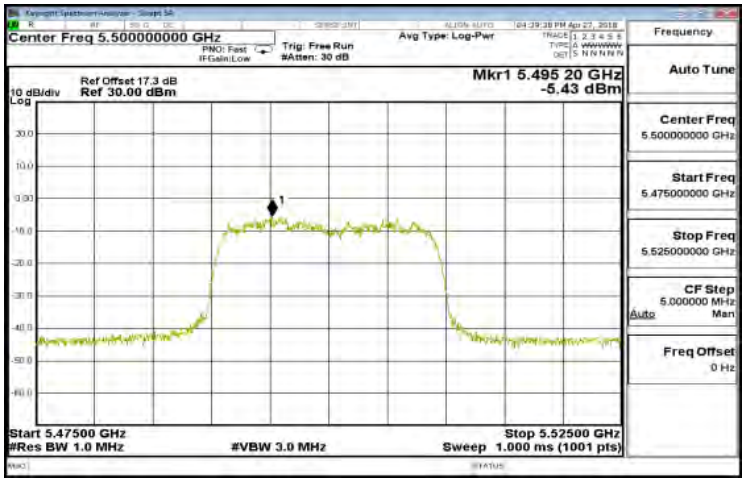
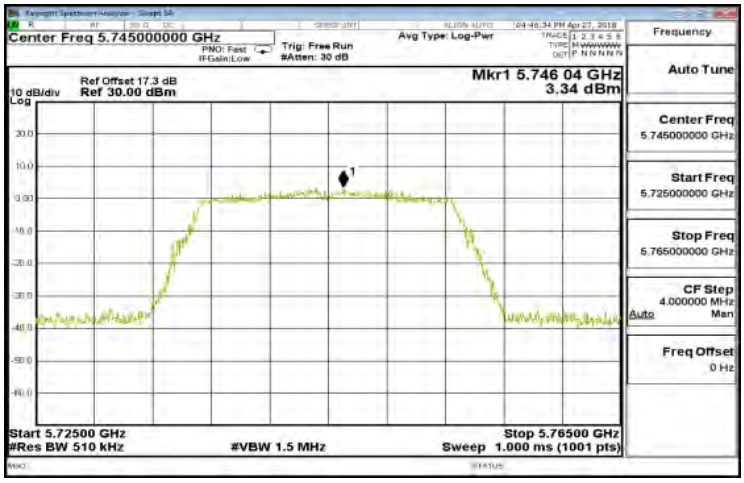
802.11n_20MHz_5500MHz



802.11n_20MHz_5745MHz



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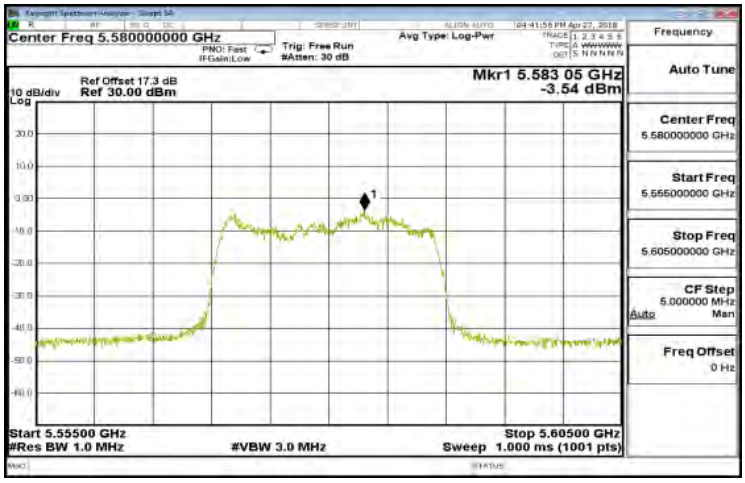
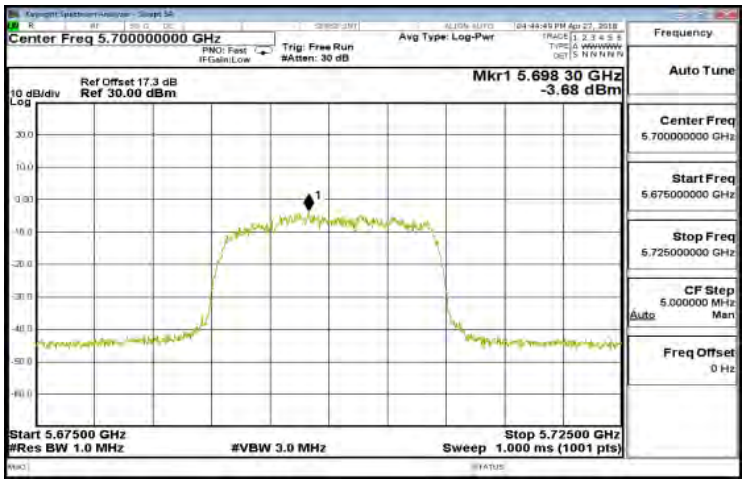
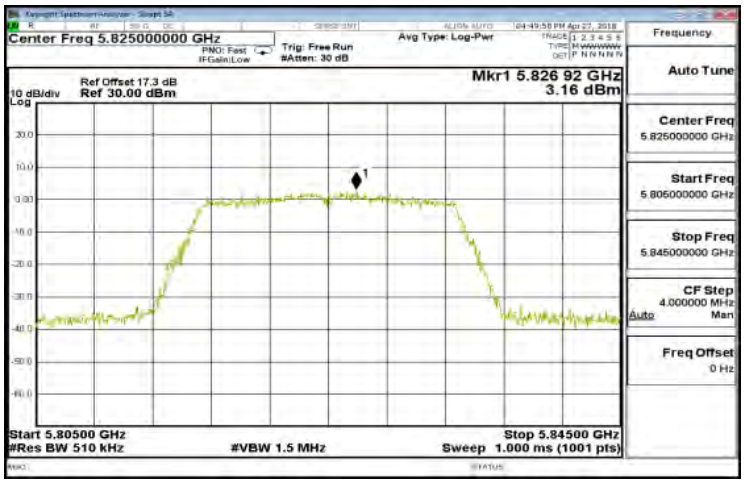


802.11n_20MHz_5785MHz

802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz



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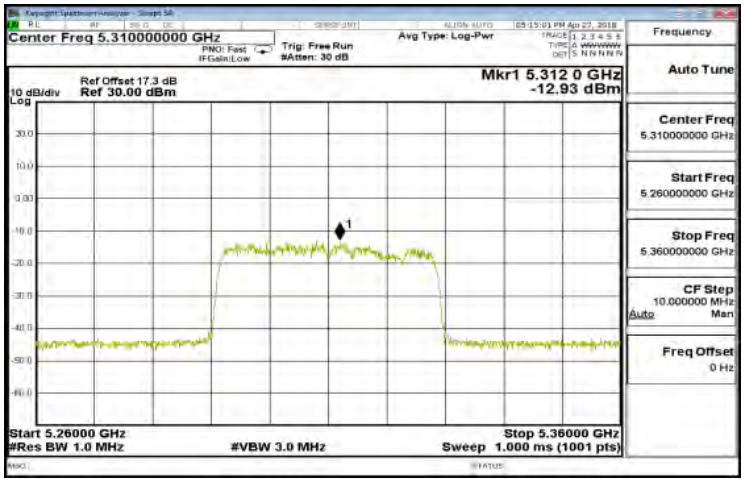
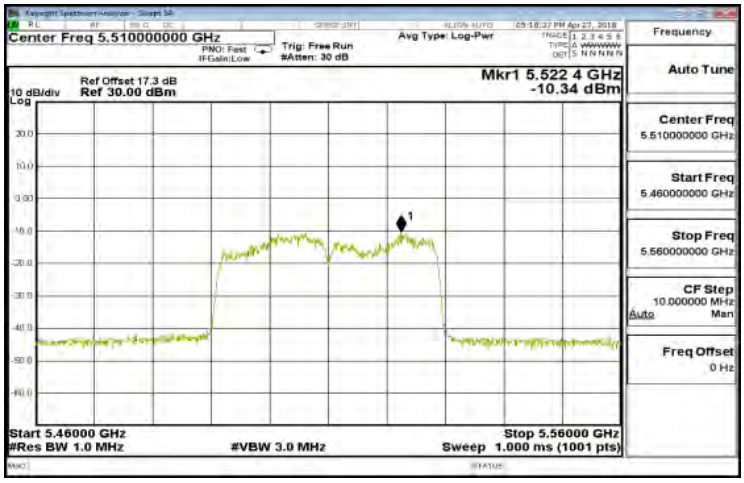
802.11n_40MHz_5190MHz

802.11n_40MHz_5310MHz

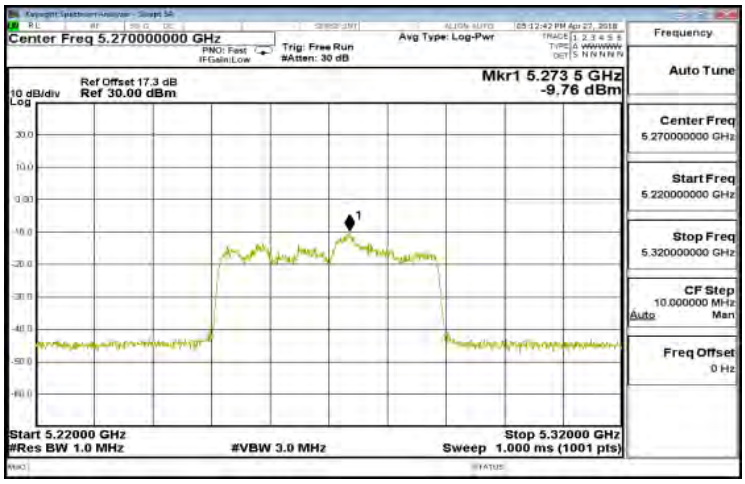


802.11n_40MHz_5230MHz

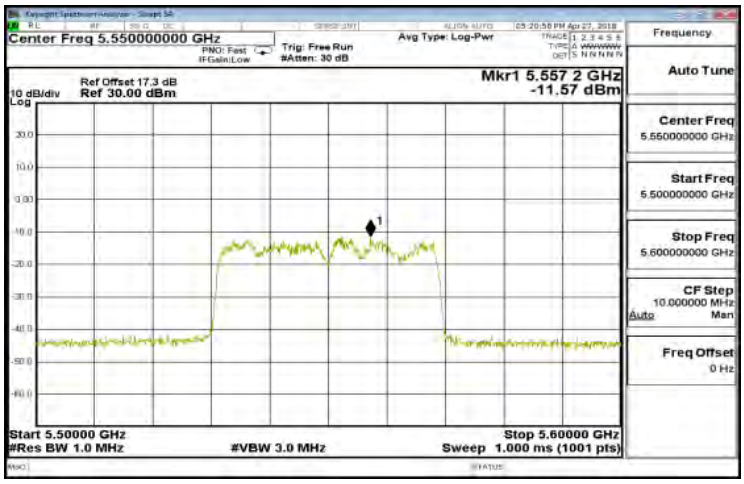
802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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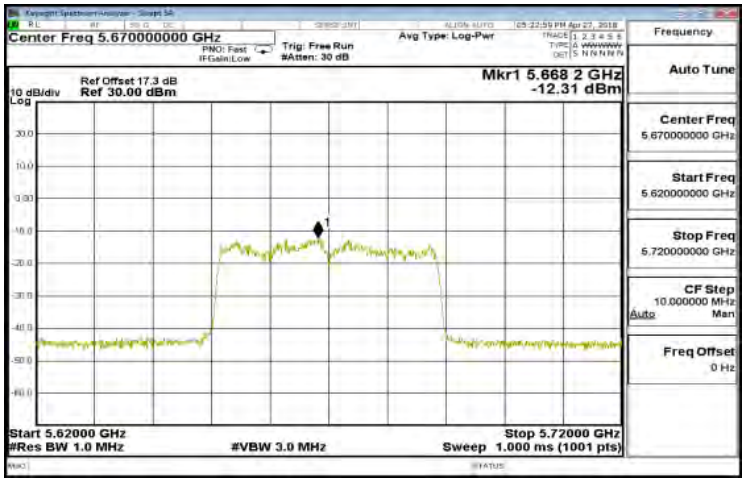
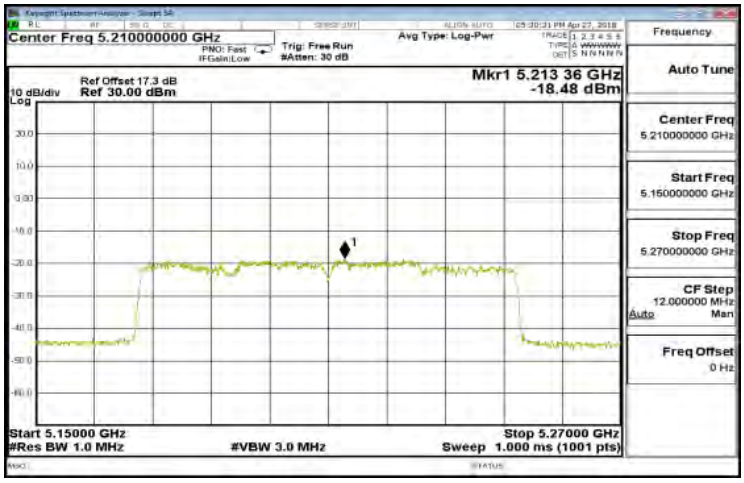
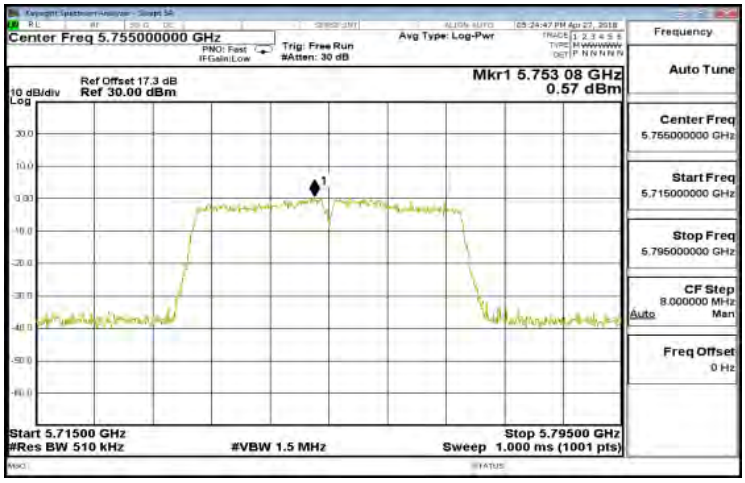
802.11n_40MHz_5670MHz



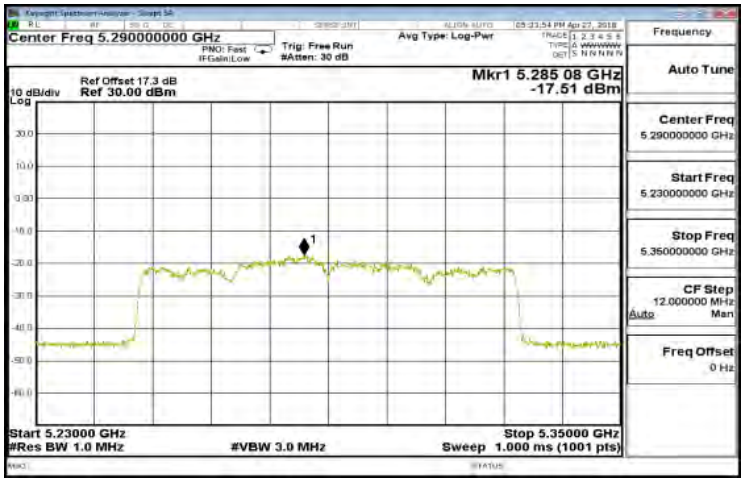
802.11ac_80MHz_5210MHz



802.11n_40MHz_5755MHz



802.11ac_80MHz_5290MHz



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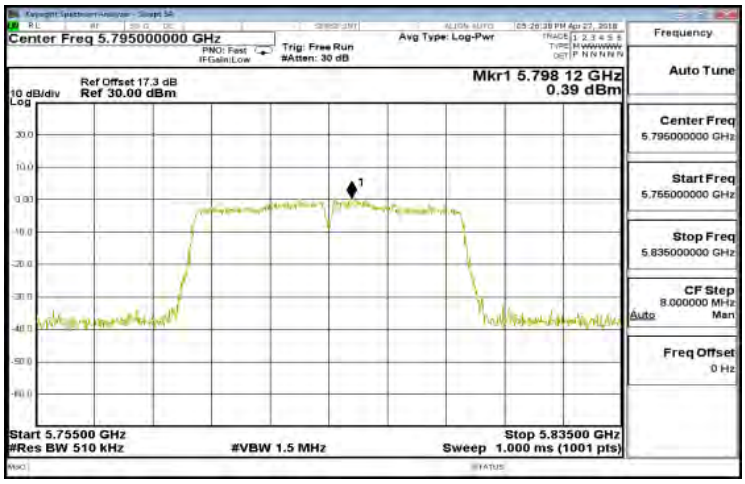

802.11ac_80MHz_5530MHz

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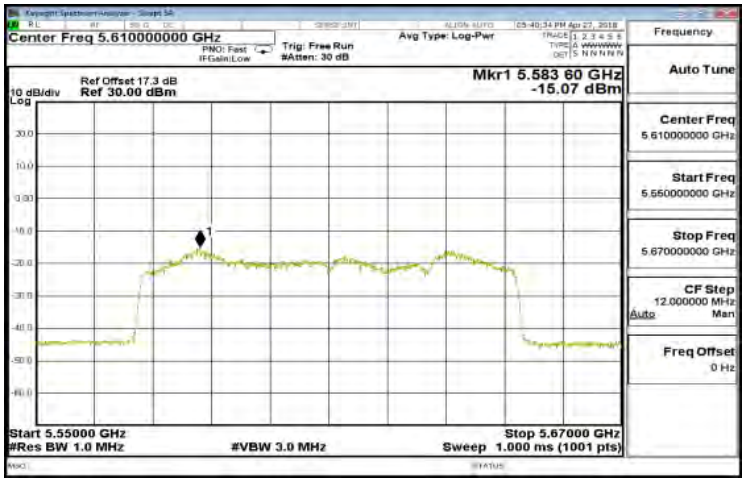
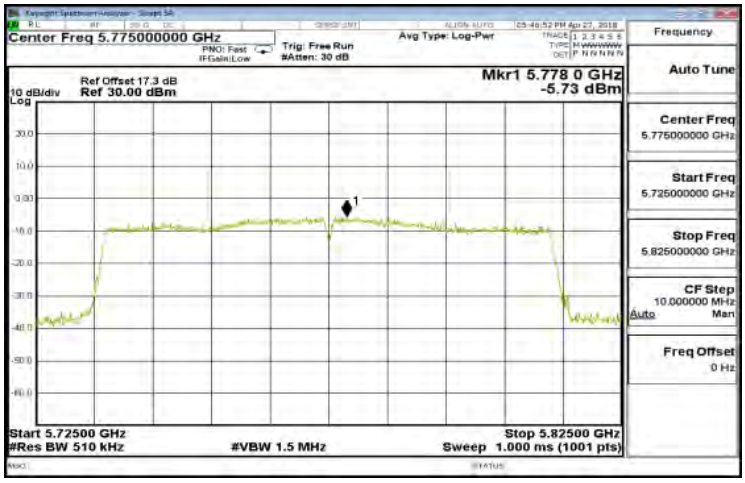
802.11ac_80MHz_5610MHz



802.11ac_80MHz_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBµV/m)
APPLICABLE TO	**EIRP LIMIT**	**FIELD STRENGTH AT 3m**
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

EIRP = ((E*d)^2) / 30, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2017/05/31	2018/05/30
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber D	N/A	2017/07/06	2018/07/05
Spectrum Analyzer	Agilent	N9010A	MY53400256	2017/10/30	2018/10/29
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	2017/10/27	2018/10/26
Pre-Amplifier	EMC Instru-ments	EMC9135	980234	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instru-ments	EMC12630SE	980271	2017/12/26	2018/12/25
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF81	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G015	RF100	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G016	RF101	2017/12/26	2018/12/25
Band Rejection Filter	Micro-Tronics	G021	RF102	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0012467	N/A	N/A

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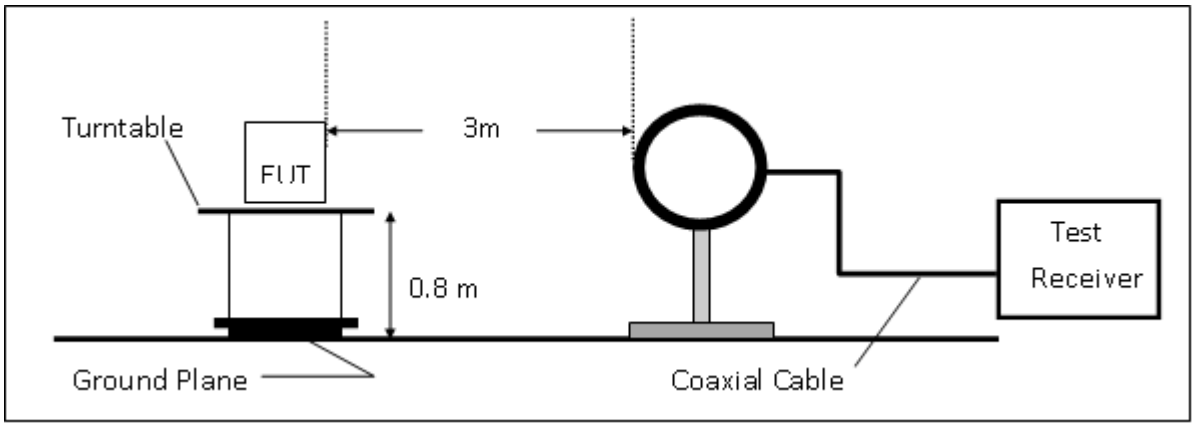
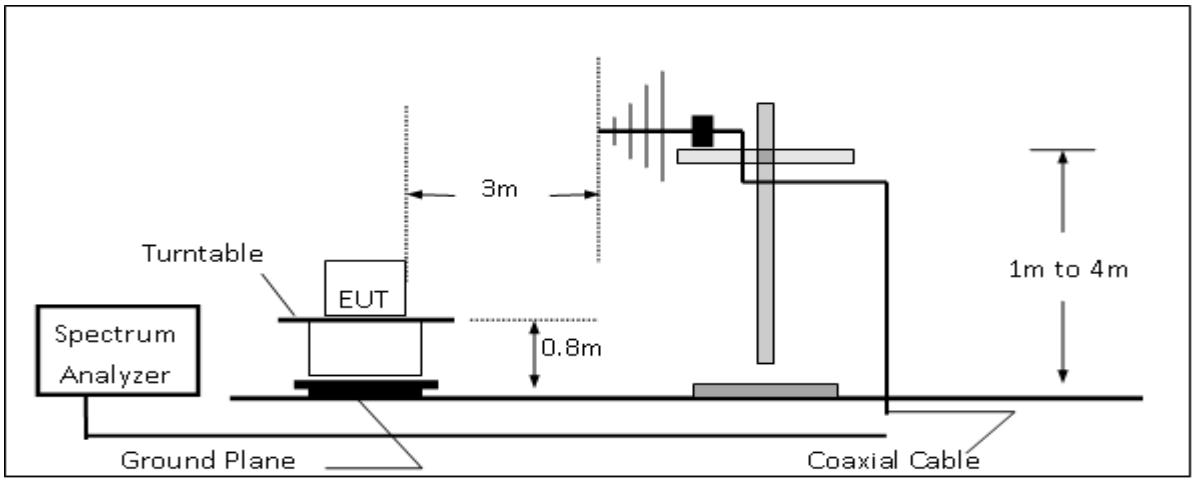
11.3 Test SET-UP

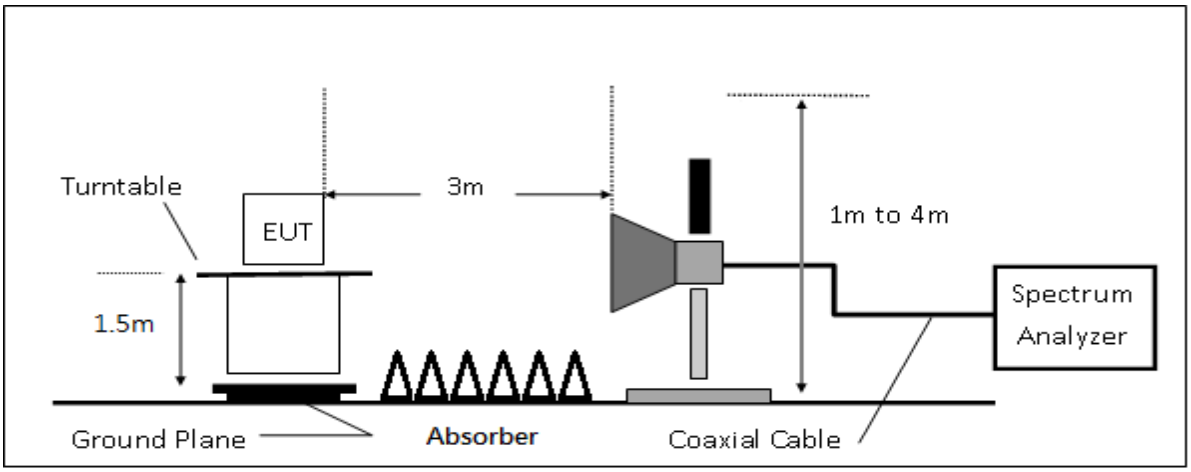
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

"**F**" : denotes Fundamental Frequency. ; "**H**" : denotes Harmonic Frequency.

"**E**" : denotes Band Edge Frequency. ; "**S**" : denotes Spurious Frequency.

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11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Refer to next page for tabular data sheets.

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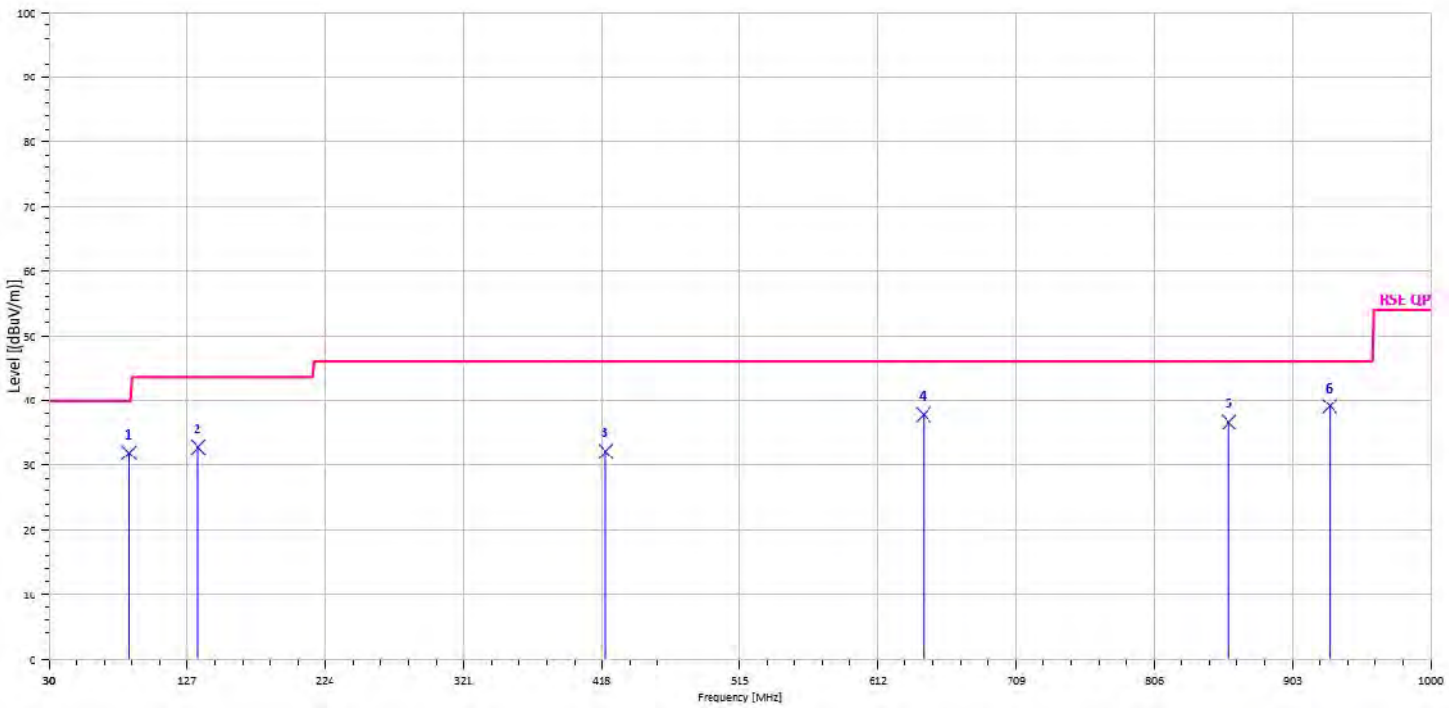
Radiated Spurious Emission Measurement Result
Below 1GHz Worst-Case Data:
802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/4/26
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
86.26	S	Peak	54.03	-22.16	31.87	40	-8.13
134.76	S	Peak	49.84	-17.06	32.77	43.5	-10.73
420.91	S	Peak	44.20	-12.09	32.11	46	-13.89
644.01	S	Peak	45.84	-8.05	37.79	46	-8.21
858.38	S	Peak	42.73	-6.08	36.65	46	-9.35
929.19	S	Peak	43.84	-4.74	39.10	46	-6.90

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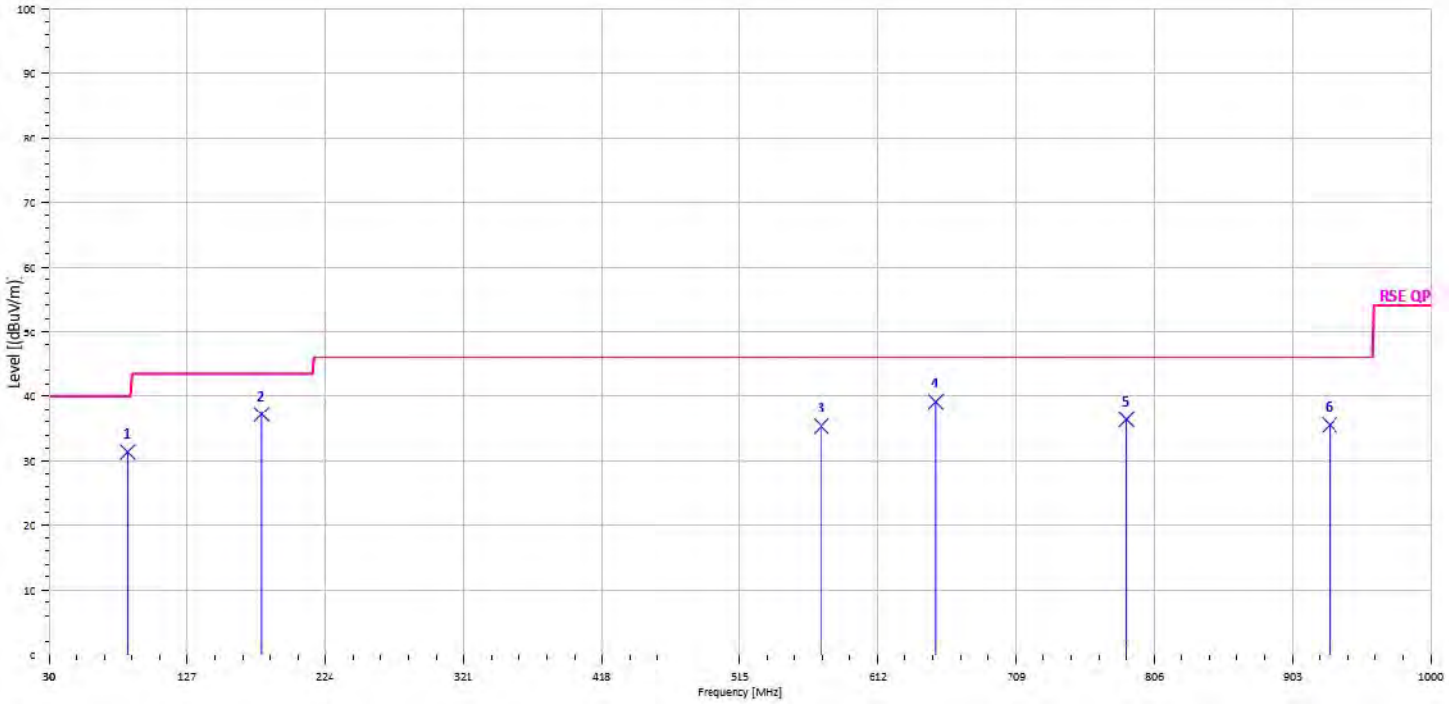
Operation Mode :	802.11aB1	Test Date :	2018/4/26
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
85.29	S	Peak	53.35	-21.99	31.36	40	-8.64
179.38	S	Peak	55.15	-17.94	37.21	43.5	-6.29
572.23	S	Peak	44.85	-9.47	35.38	46	-10.62
652.74	S	Peak	47.10	-7.95	39.15	46	-6.85
786.60	S	Peak	43.19	-6.79	36.40	46	-9.60
929.19	S	Peak	40.30	-4.74	35.57	46	-10.43

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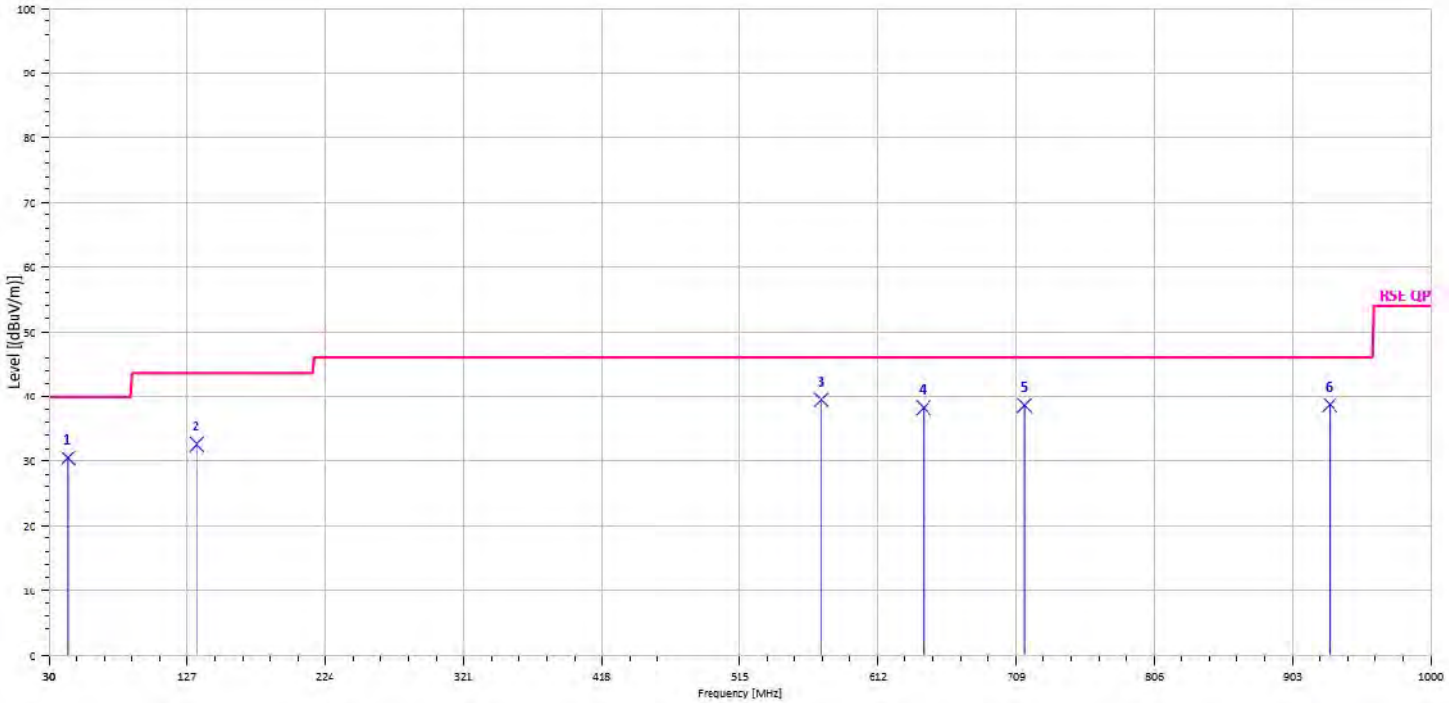
802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2018/4/26
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
43.58	S	Peak	47.57	-17.14	30.43	40	-9.57
133.79	S	Peak	49.81	-17.17	32.64	43.5	-10.86
572.23	S	Peak	48.94	-9.47	39.47	46	-6.53
644.01	S	Peak	46.25	-8.05	38.20	46	-7.80
714.82	S	Peak	46.01	-7.42	38.58	46	-7.42
929.19	S	Peak	43.42	-4.74	38.69	46	-7.31

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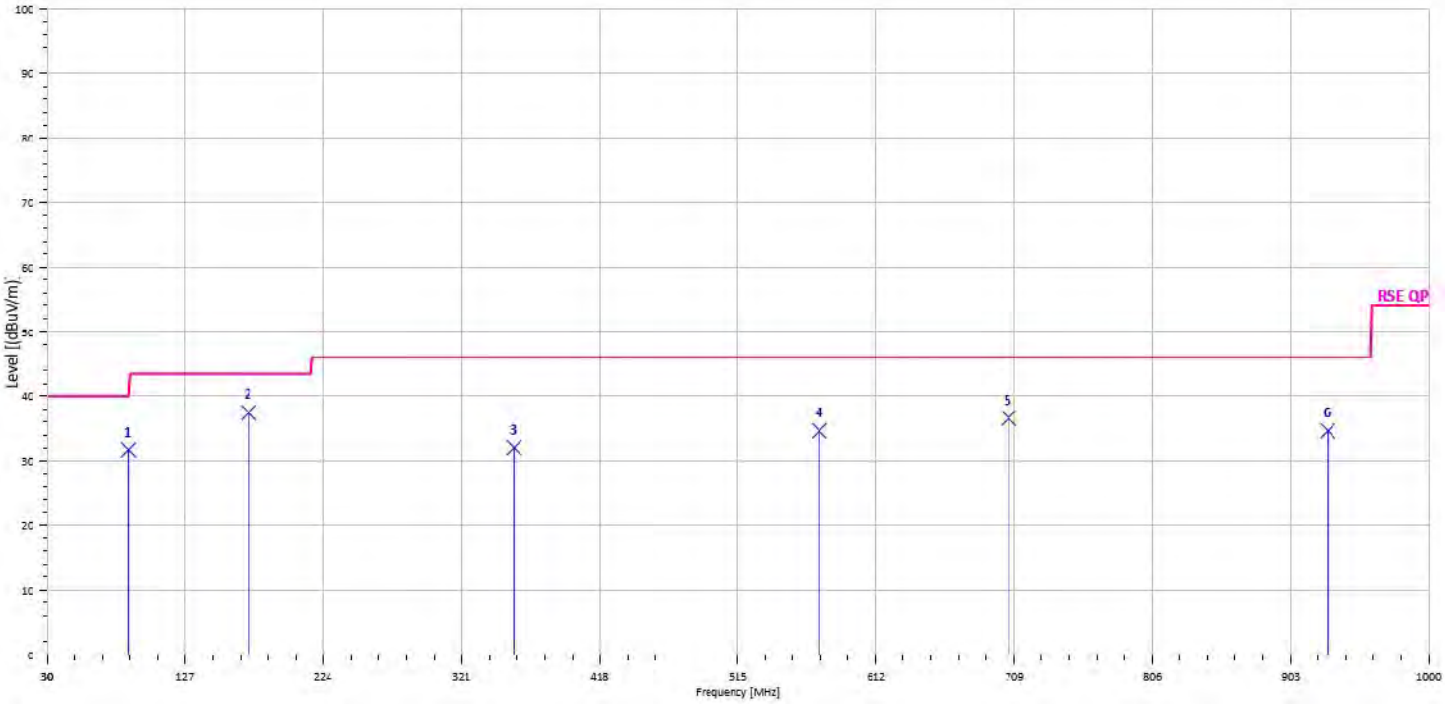
Operation Mode :	802.11aB2	Test Date :	2018/4/26
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
87.23	S	Peak	54.01	-22.32	31.68	40	-8.32
171.62	S	Peak	54.17	-16.71	37.46	43.5	-6.04
357.86	S	Peak	46.07	-14.07	32.00	46	-14.00
572.23	S	Peak	44.17	-9.47	34.70	46	-11.30
705.12	S	Peak	44.00	-7.37	36.63	46	-9.37
929.19	S	Peak	39.43	-4.74	34.69	46	-11.31

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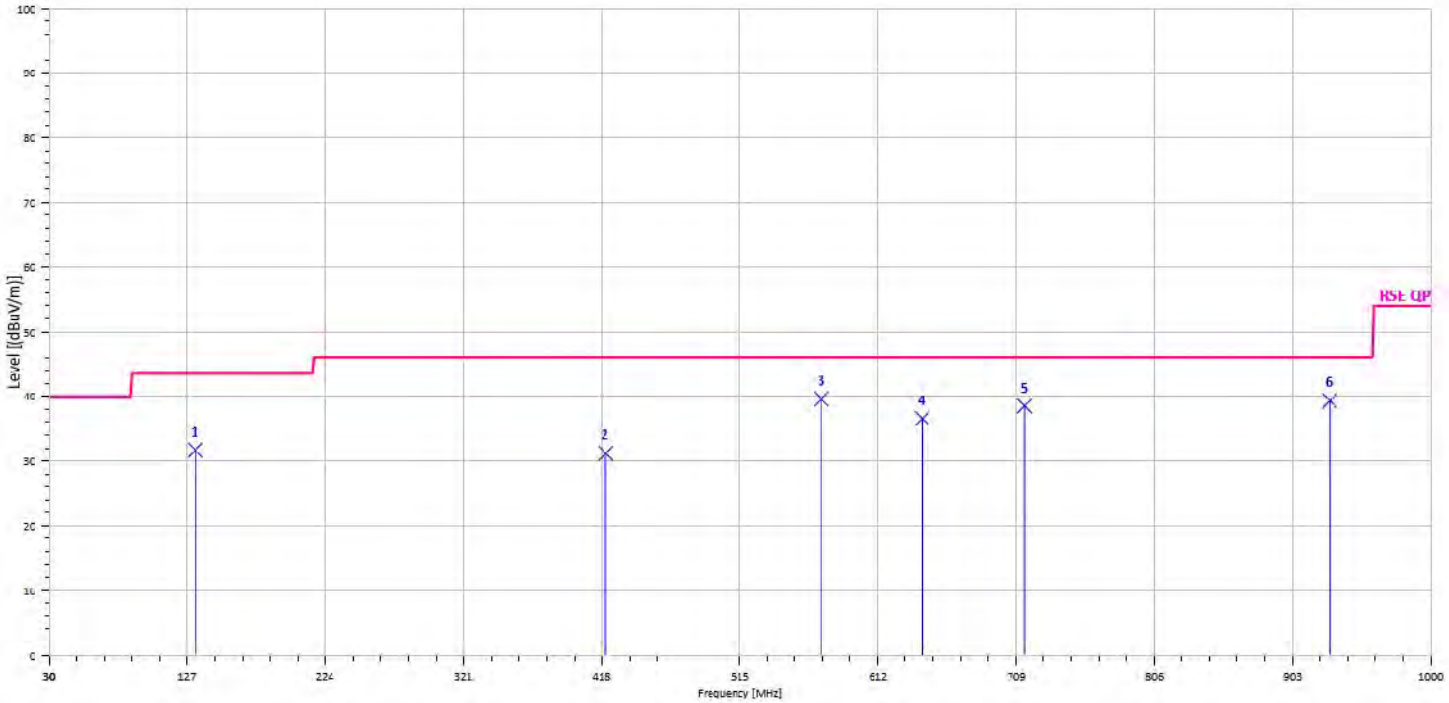
802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
132.82	S	Peak	48.97	-17.29	31.69	43.5	-11.81
420.91	S	Peak	43.28	-12.09	31.19	46	-14.81
572.23	S	Peak	49.06	-9.47	39.59	46	-6.41
643.04	S	Peak	44.65	-8.07	36.58	46	-9.42
714.82	S	Peak	45.94	-7.42	38.52	46	-7.48
929.19	S	Peak	44.06	-4.74	39.32	46	-6.68

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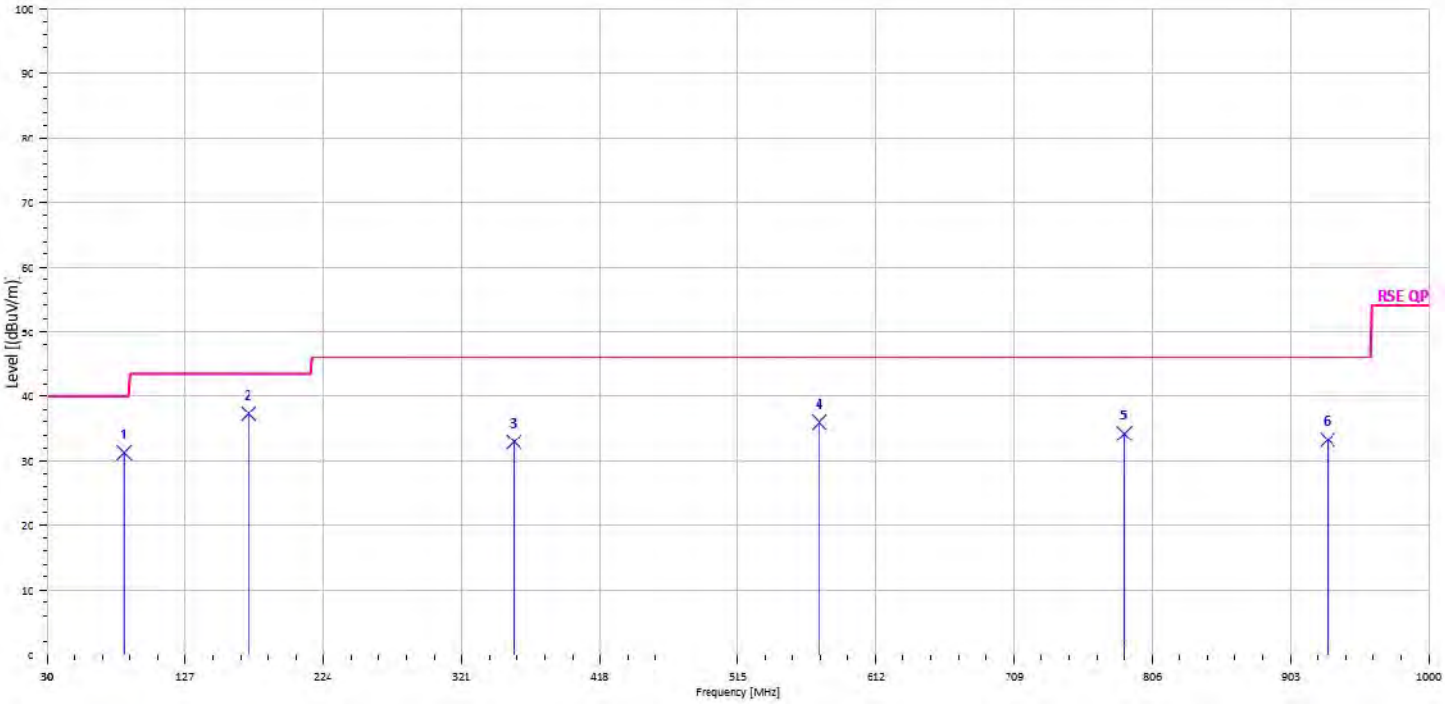
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
84.32	S	Peak	53.08	-21.82	31.25	40	-8.75
171.62	S	Peak	54.02	-16.71	37.31	43.5	-6.19
357.86	S	Peak	47.00	-14.07	32.93	46	-13.07
572.23	S	Peak	45.42	-9.47	35.95	46	-10.05
786.60	S	Peak	41.01	-6.79	34.21	46	-11.79
929.19	S	Peak	38.00	-4.74	33.27	46	-12.73

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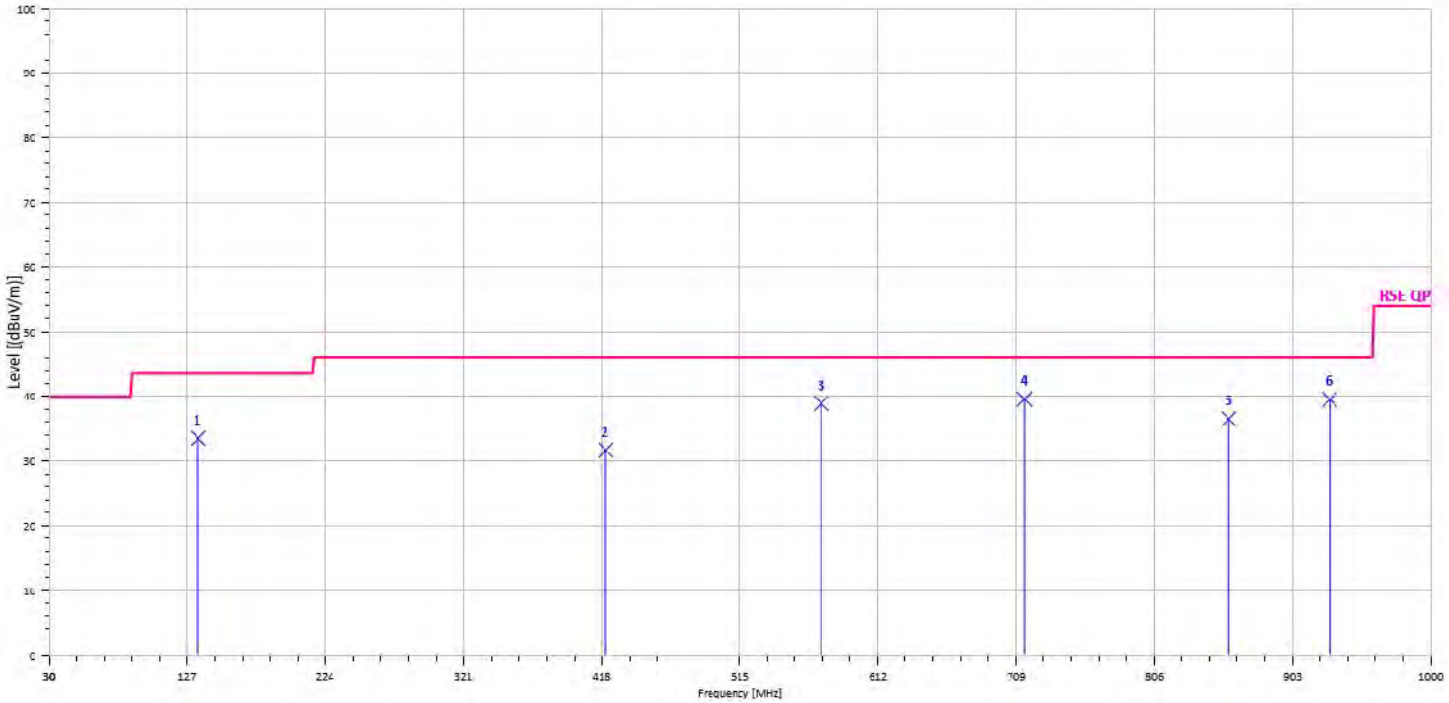
802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
134.76	S	Peak	50.57	-17.06	33.50	43.5	-10.00
420.91	S	Peak	43.77	-12.09	31.68	46	-14.32
572.23	S	Peak	48.38	-9.47	38.91	46	-7.09
714.82	S	Peak	47.00	-7.42	39.58	46	-6.42
858.38	S	Peak	42.61	-6.08	36.53	46	-9.47
929.19	S	Peak	44.25	-4.74	39.52	46	-6.48

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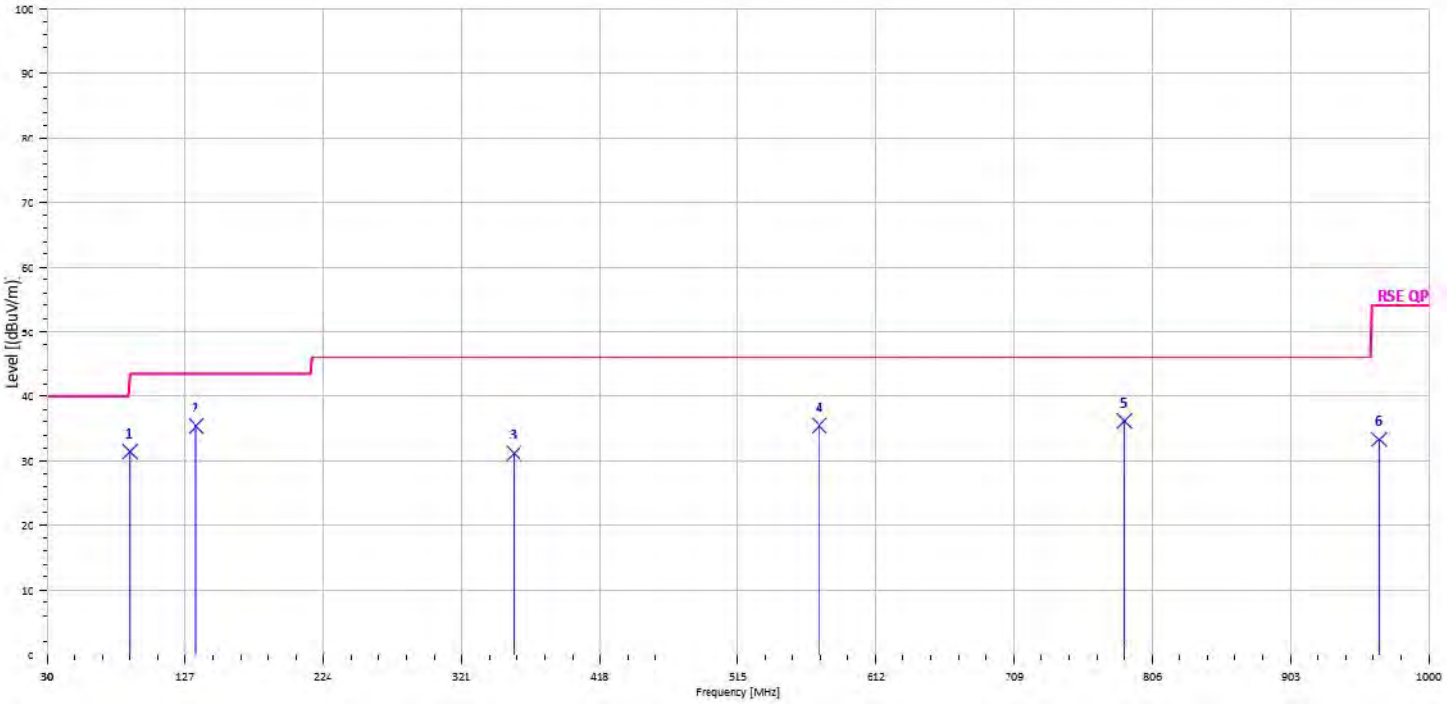
Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
88.20	S	Peak	53.91	-22.49	31.42	43.5	-12.08
134.76	S	Peak	52.45	-17.06	35.39	43.5	-8.11
357.86	S	Peak	45.24	-14.07	31.17	46	-14.83
572.23	S	Peak	44.94	-9.47	35.47	46	-10.53
786.60	S	Peak	42.95	-6.79	36.16	46	-9.84
965.08	S	Peak	37.59	-4.26	33.32	54	-20.68

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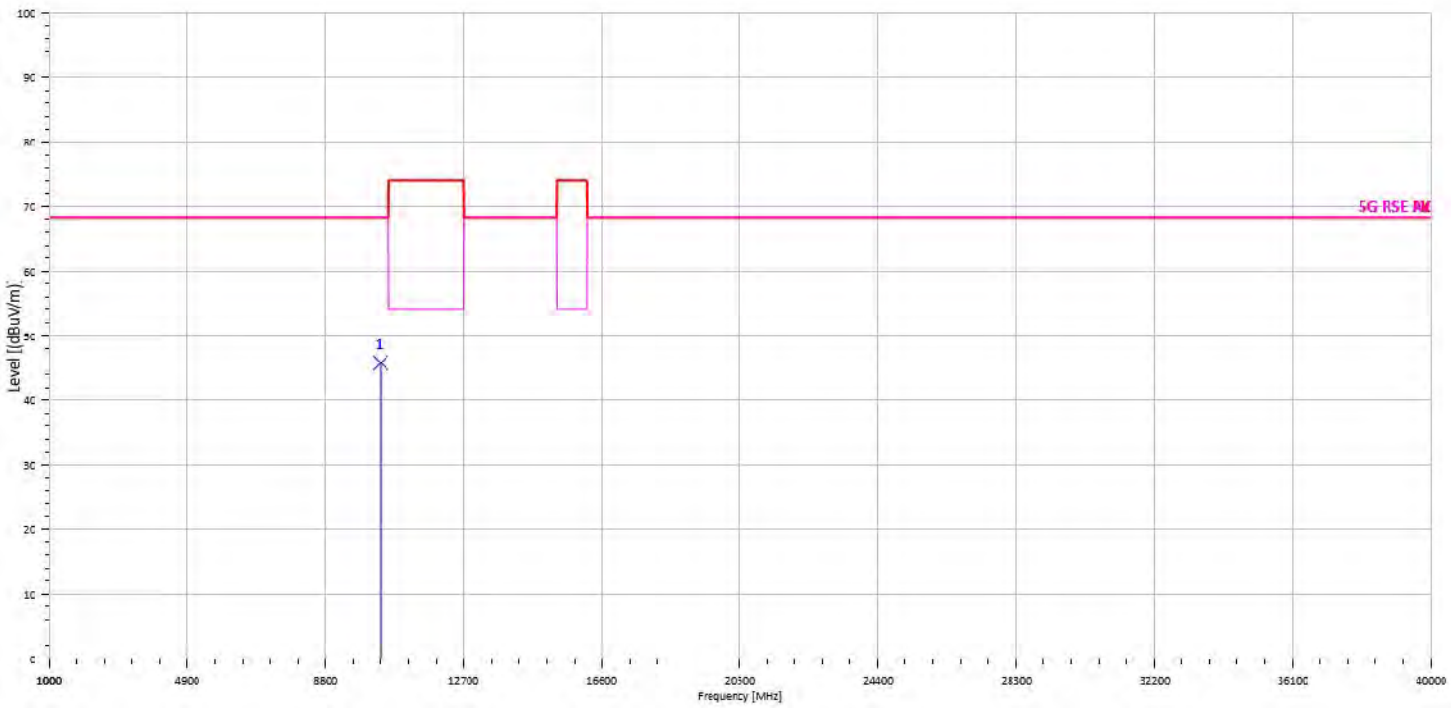
Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	36.53	9.27	45.80	68.3	-22.50

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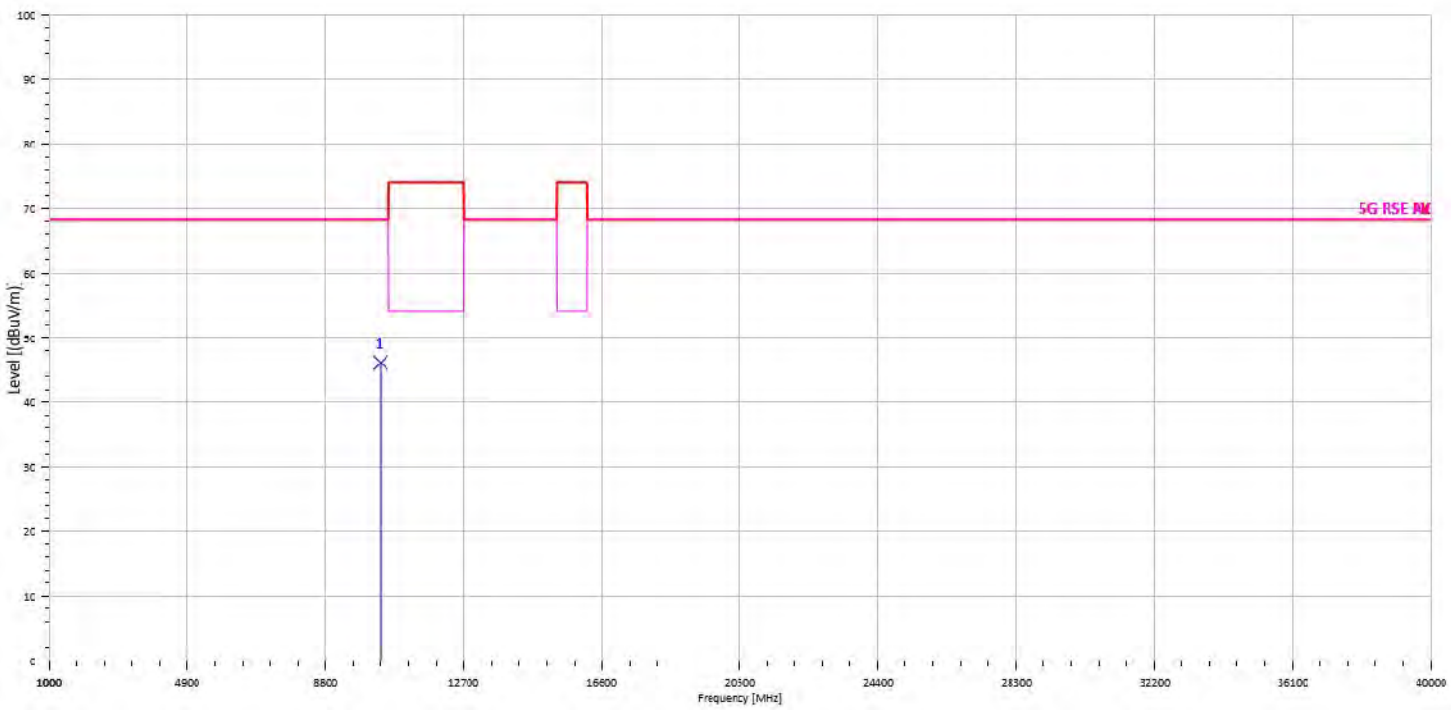
Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	36.87	9.27	46.14	68.3	-22.16

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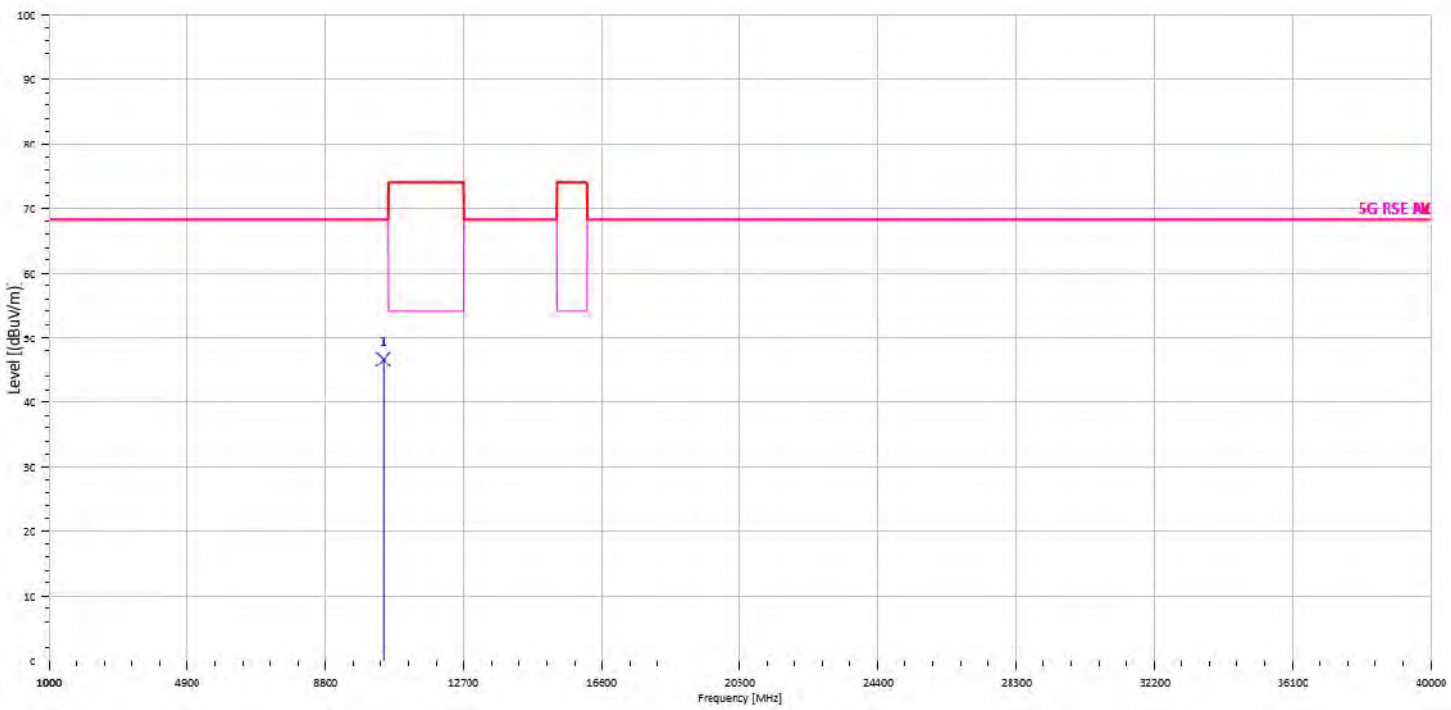
Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	37.08	9.57	46.65	68.3	-21.65

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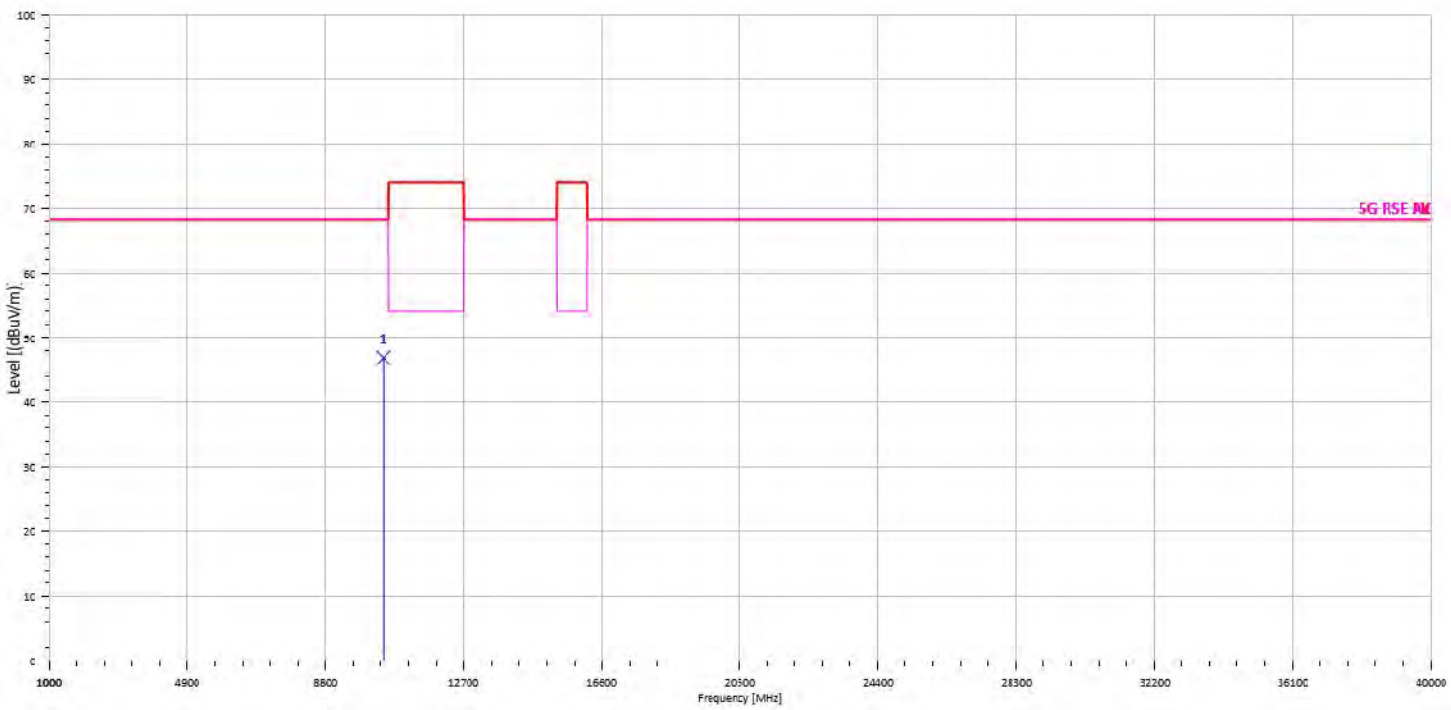
Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	37.33	9.57	46.90	68.3	-21.40

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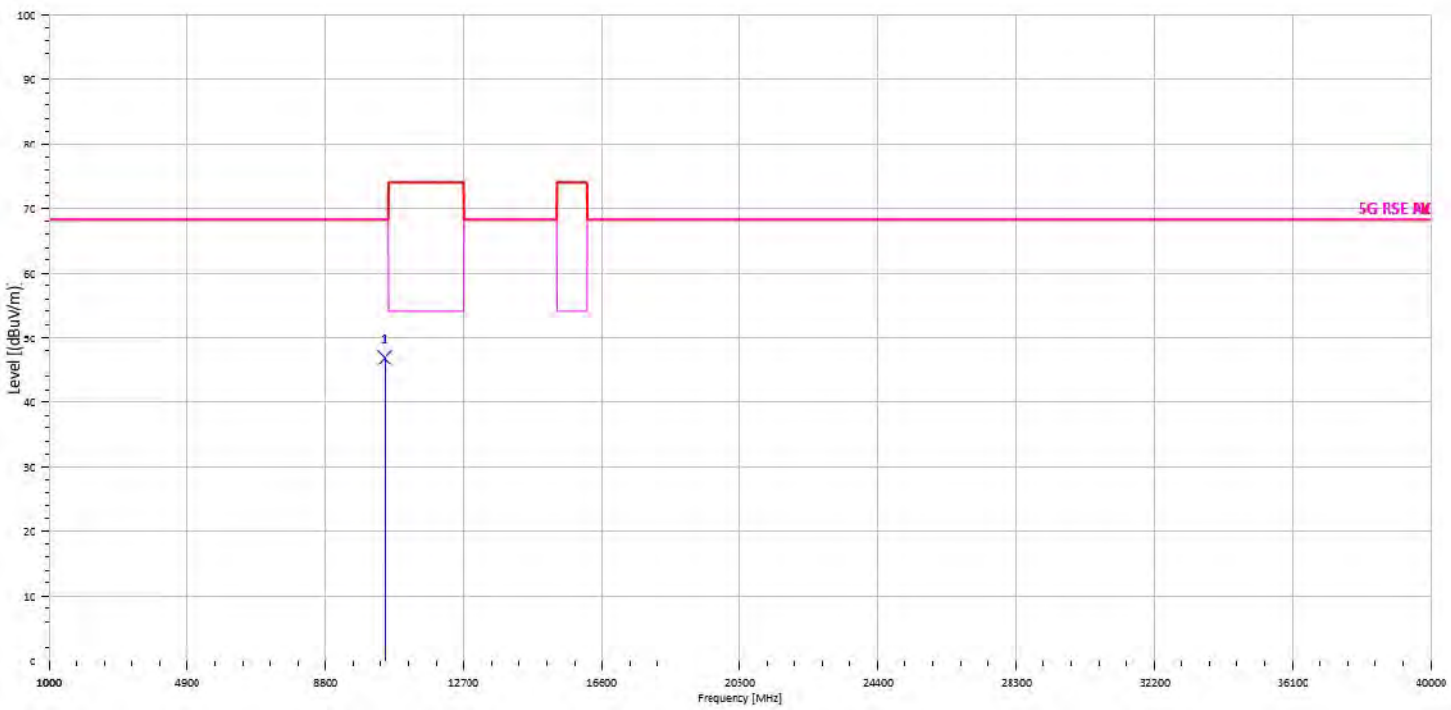
Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	37.27	9.64	46.91	68.3	-21.39

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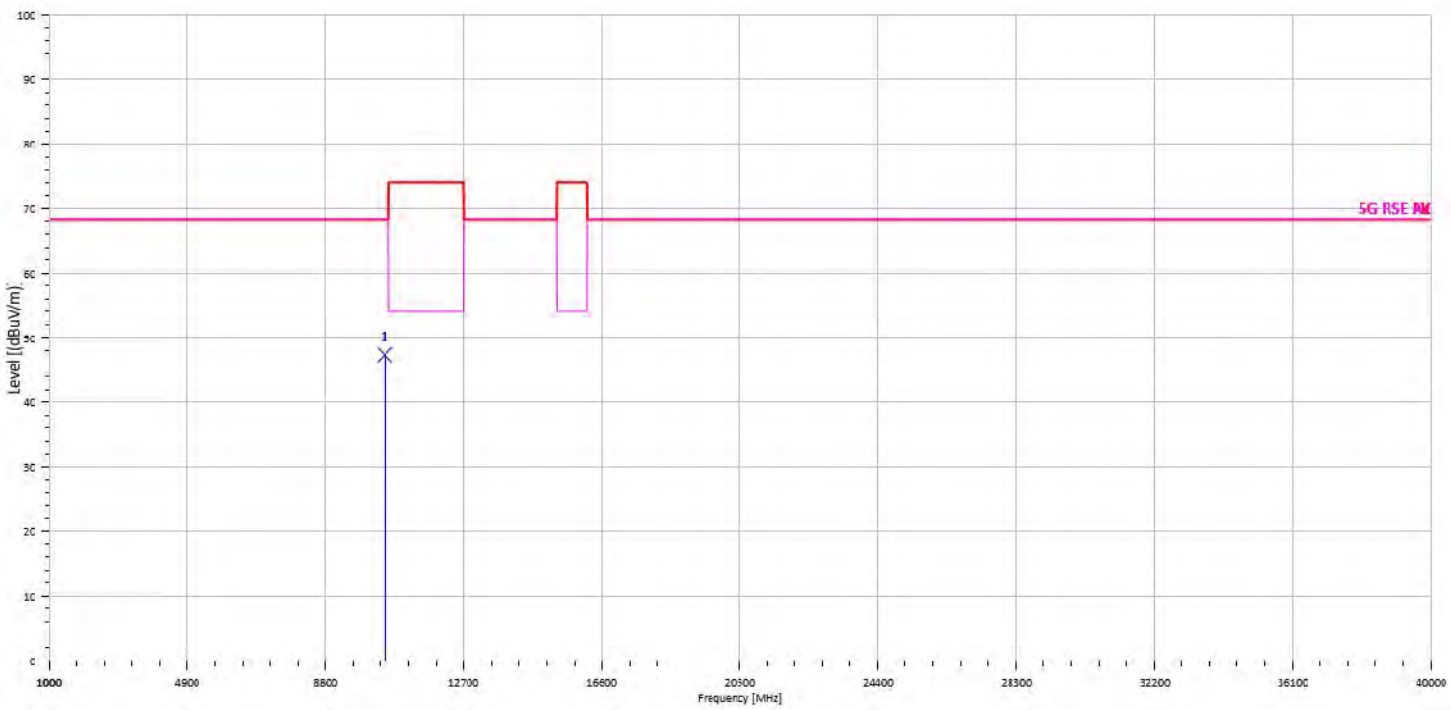
Operation Mode :	802.11aB1	Test Date :	2018/4/30
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	37.72	9.64	47.37	68.3	-20.93

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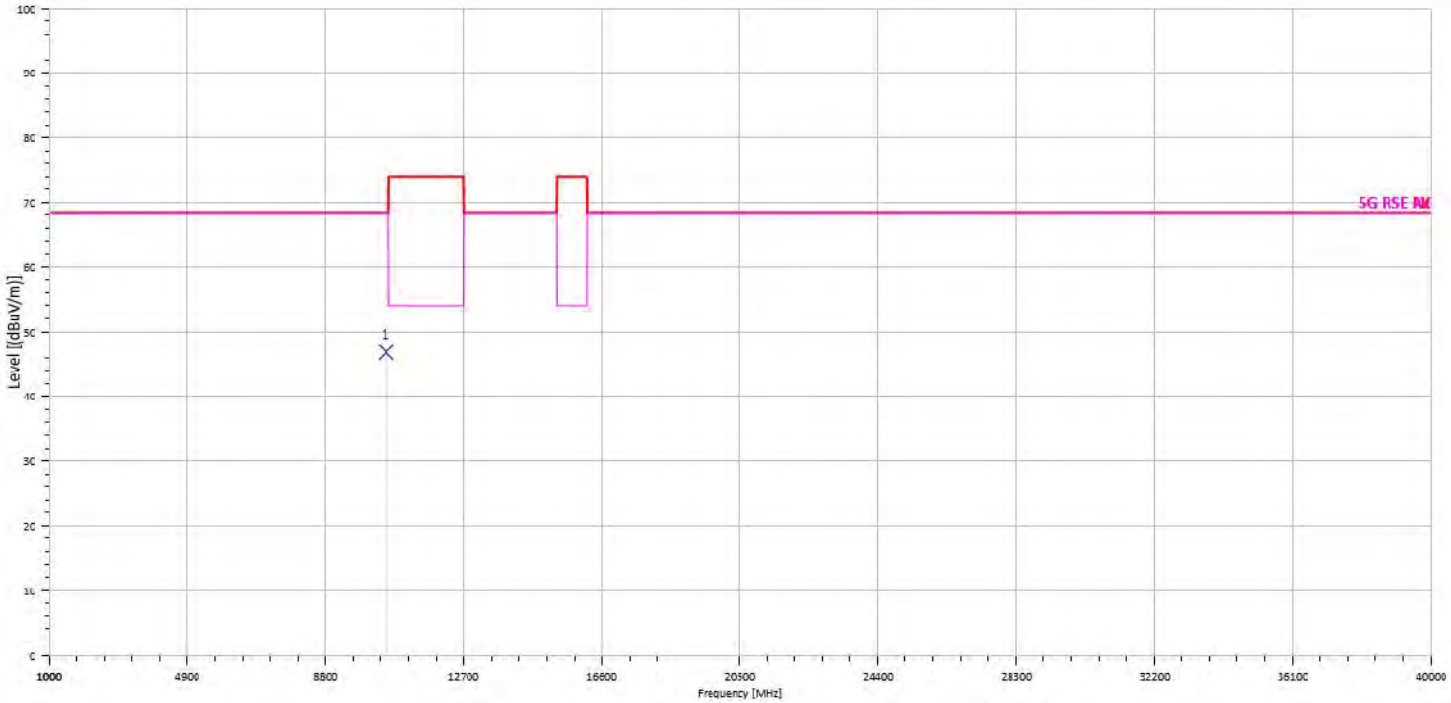
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	37.03	9.77	46.80	68.3	-21.50

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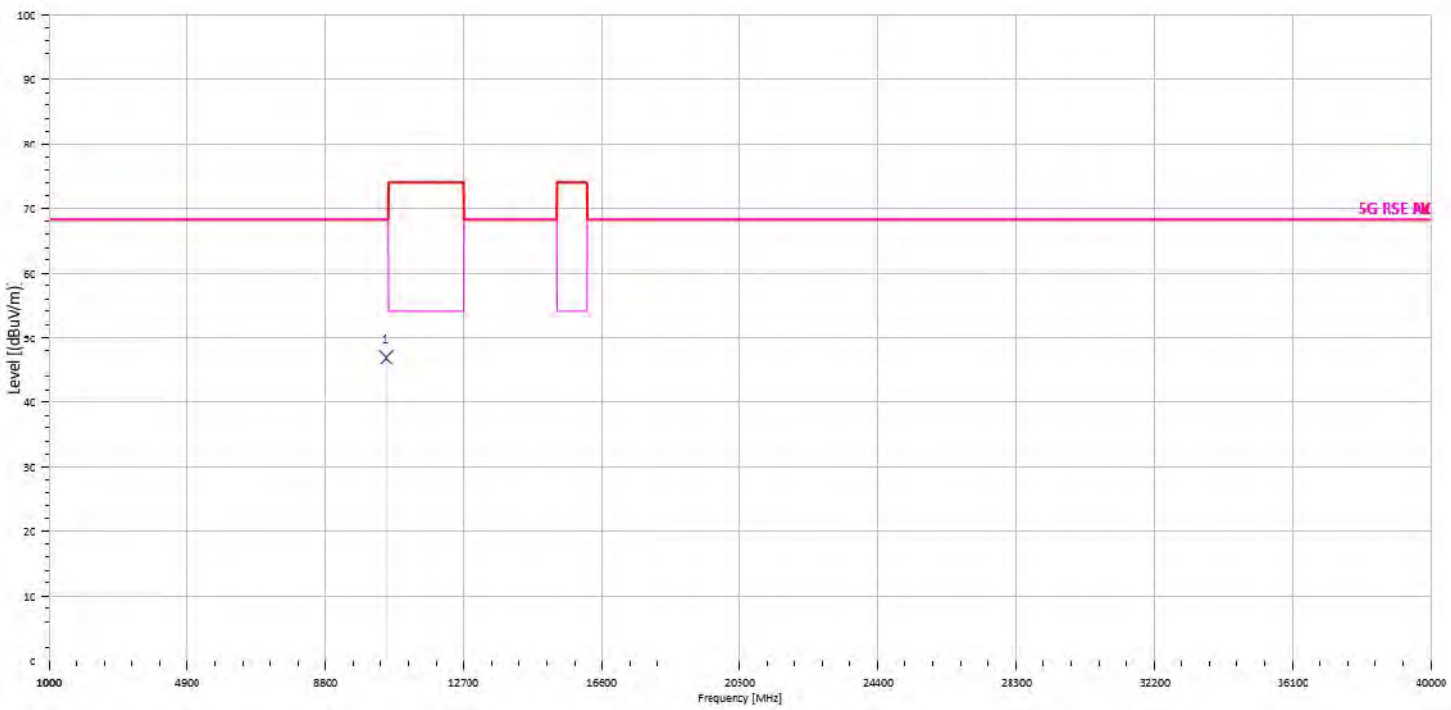
Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	37.16	9.77	46.94	68.3	-21.36

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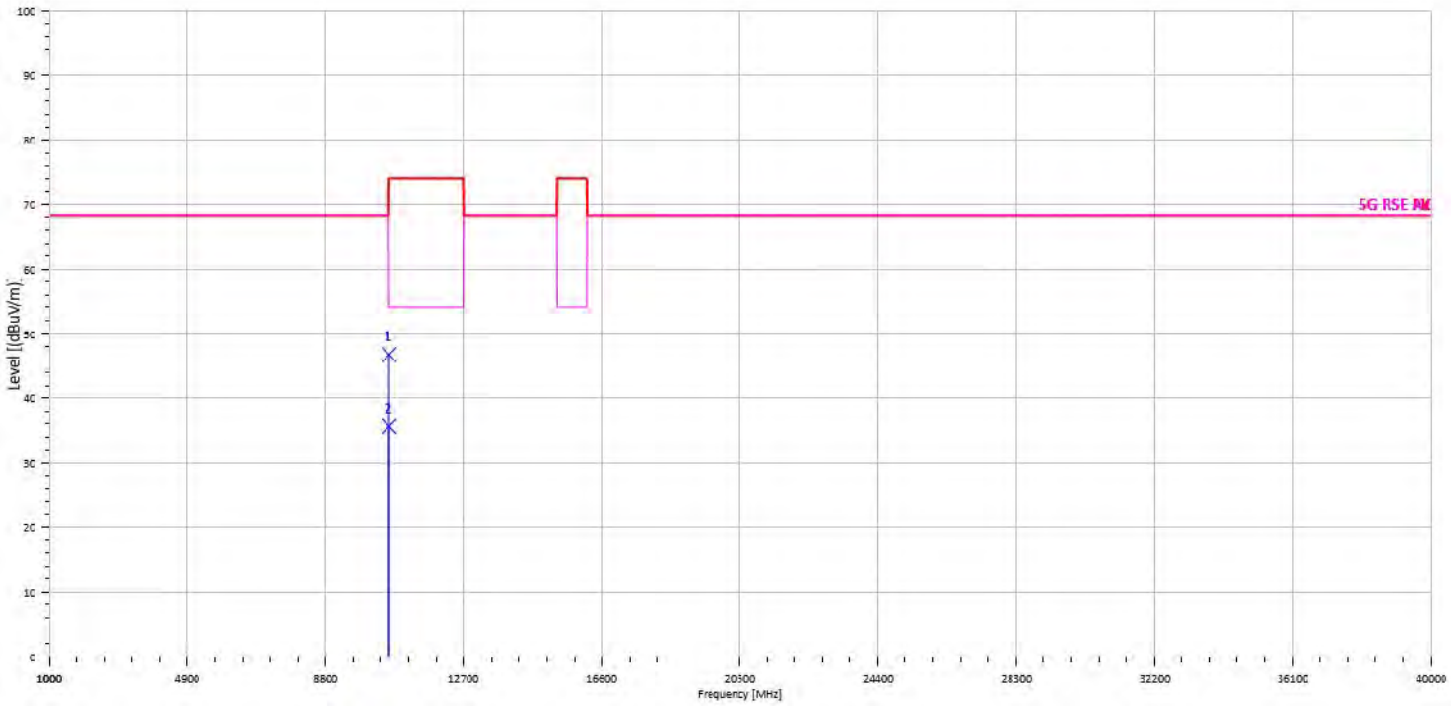
Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	36.60	10.15	46.75	74	-27.25
10600.00	H	Average	25.52	10.15	35.66	54	-18.34

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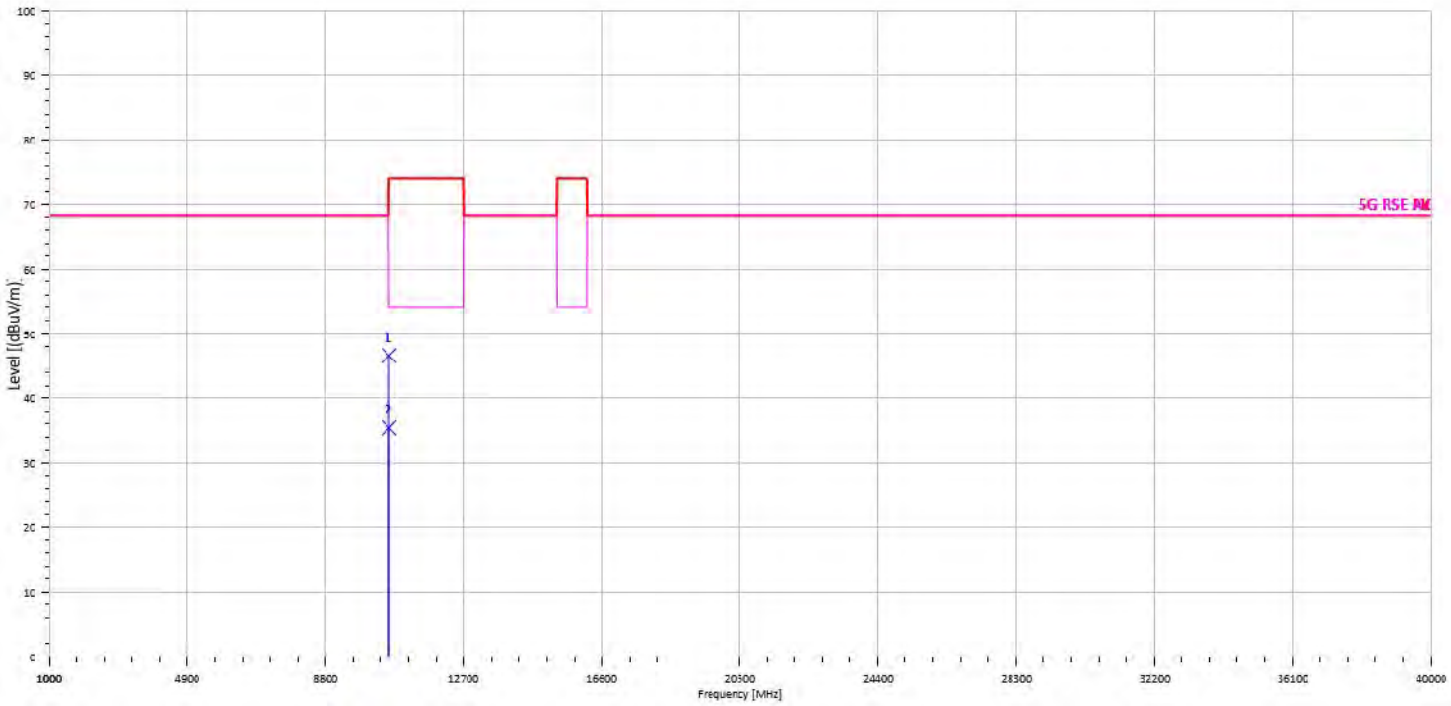
Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	36.46	10.15	46.61	74	-27.39
10600.00	H	Average	25.29	10.15	35.44	54	-18.56

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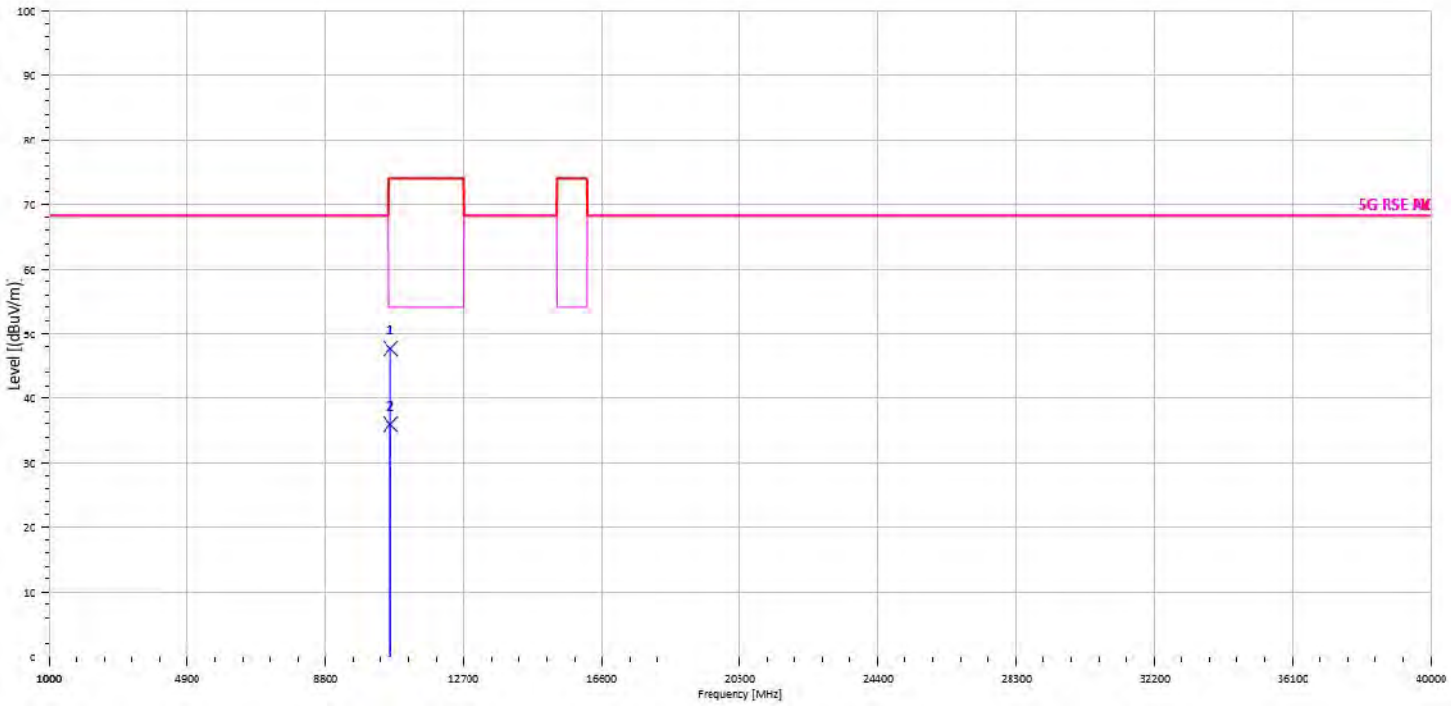
Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	37.64	10.07	47.71	74	-26.29
10640.00	H	Average	25.88	10.07	35.95	54	-18.05

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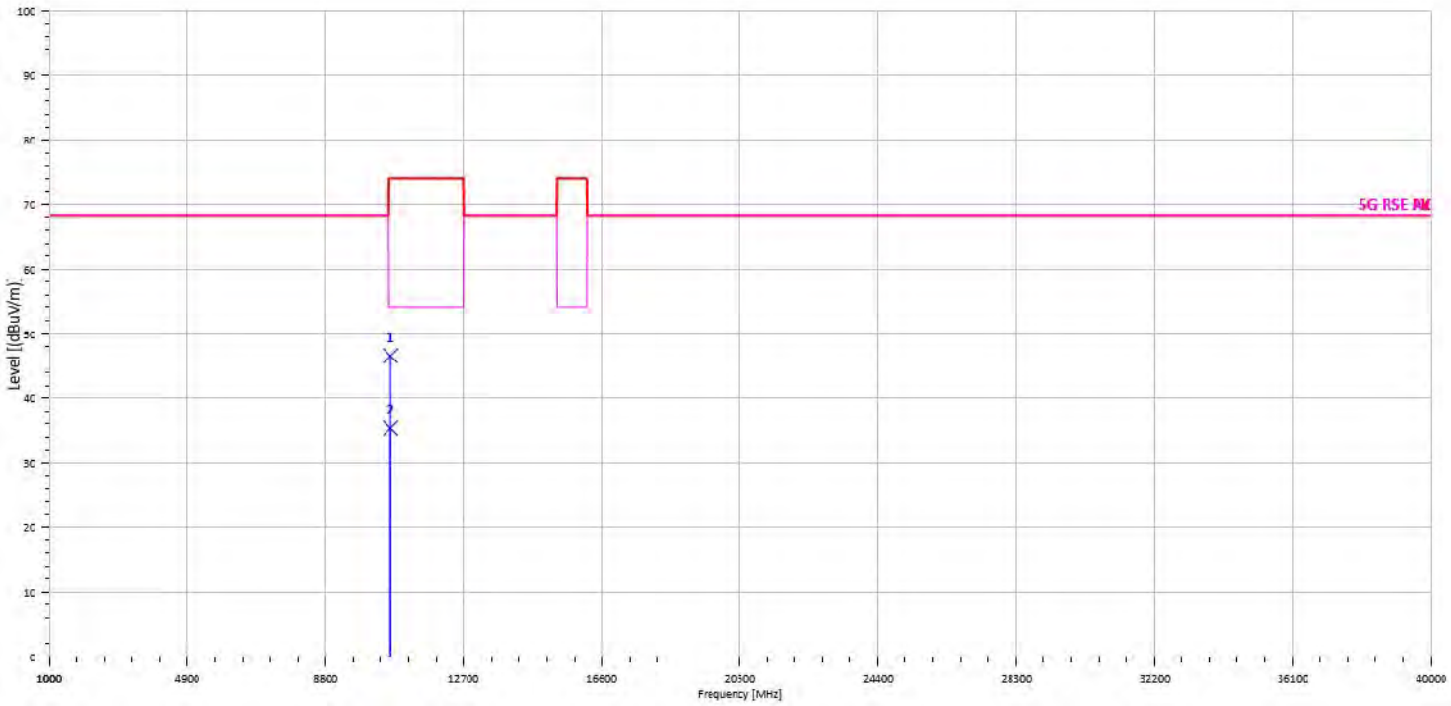
Operation Mode :	802.11aB2	Test Date :	2018/4/30
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	36.50	10.07	46.58	74	-27.42
10640.00	H	Peak	25.30	10.07	35.37	74	-38.63

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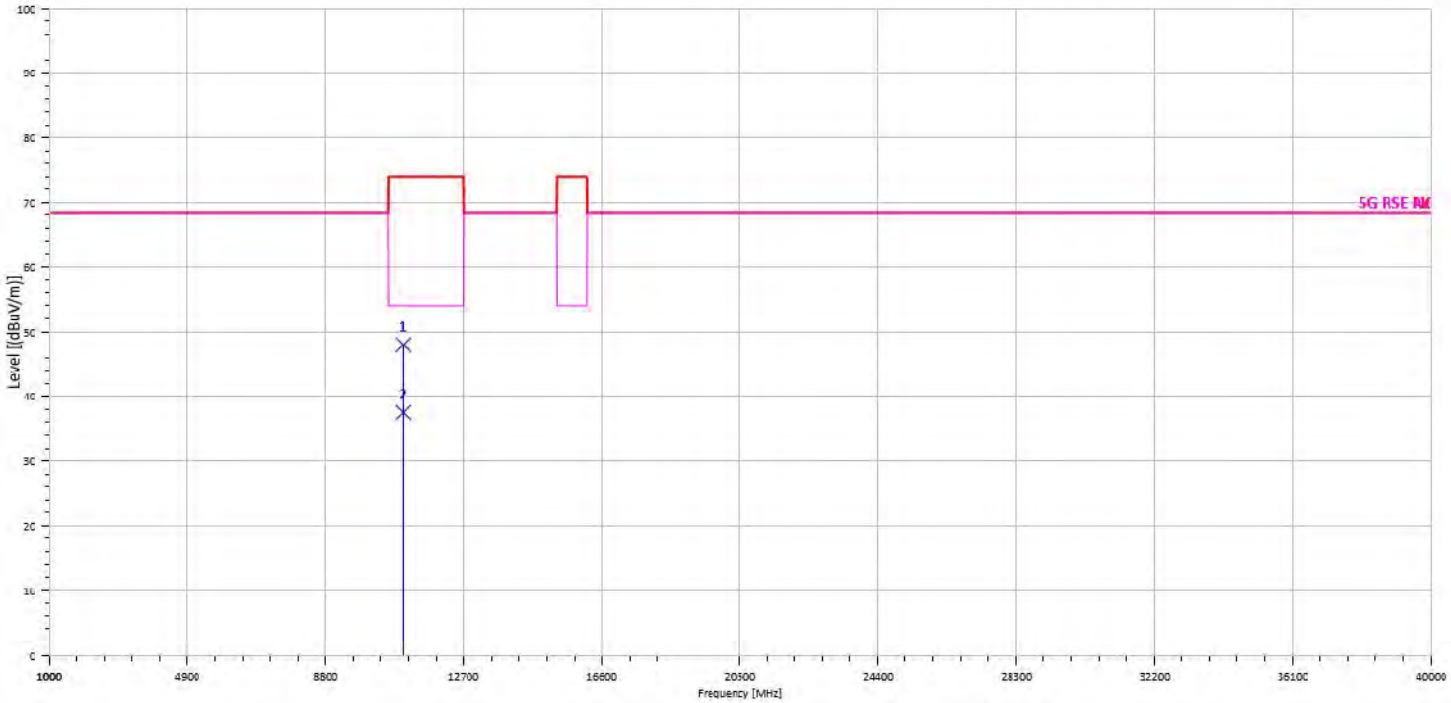
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	36.26	11.71	47.97	74	-26.03
11000.00	H	Average	25.80	11.71	37.51	54	-16.49

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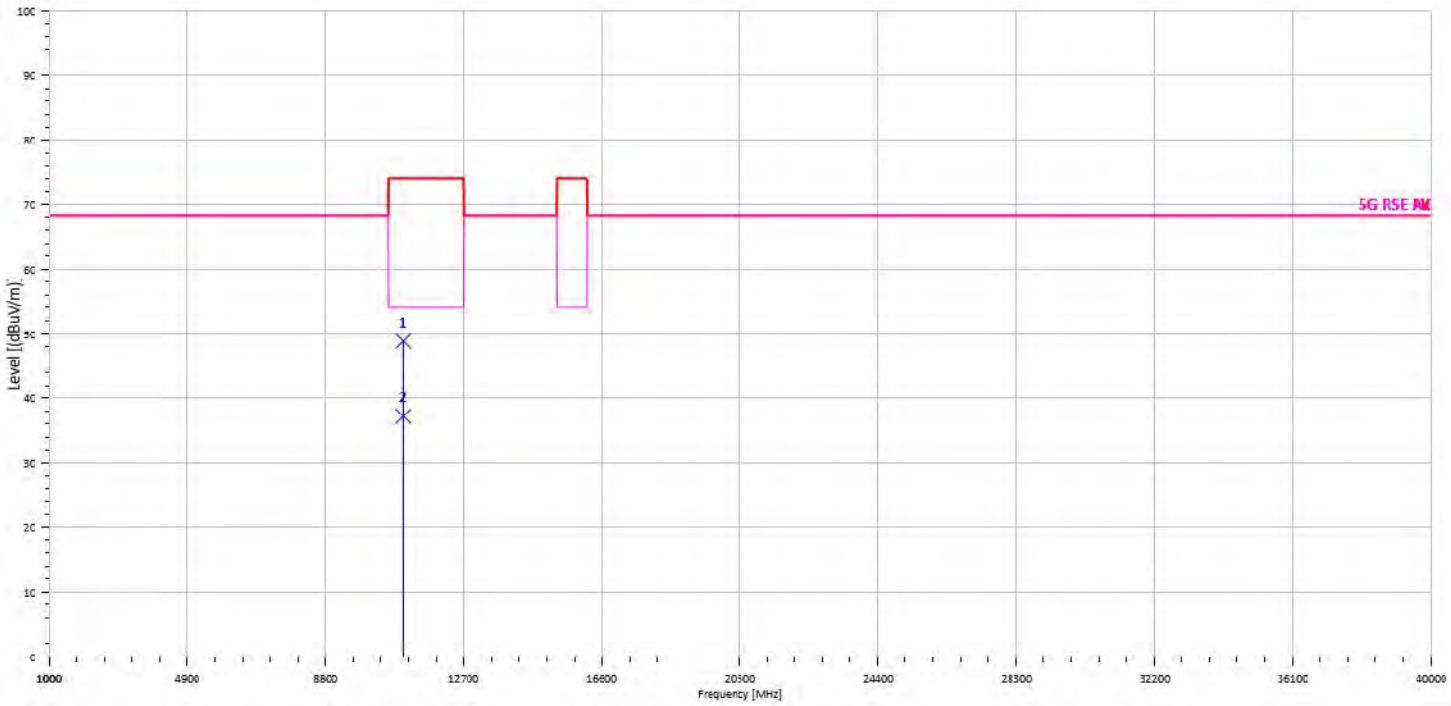
Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	37.14	11.71	48.85	74	-25.15
11000.00	H	Average	25.53	11.71	37.24	54	-16.76

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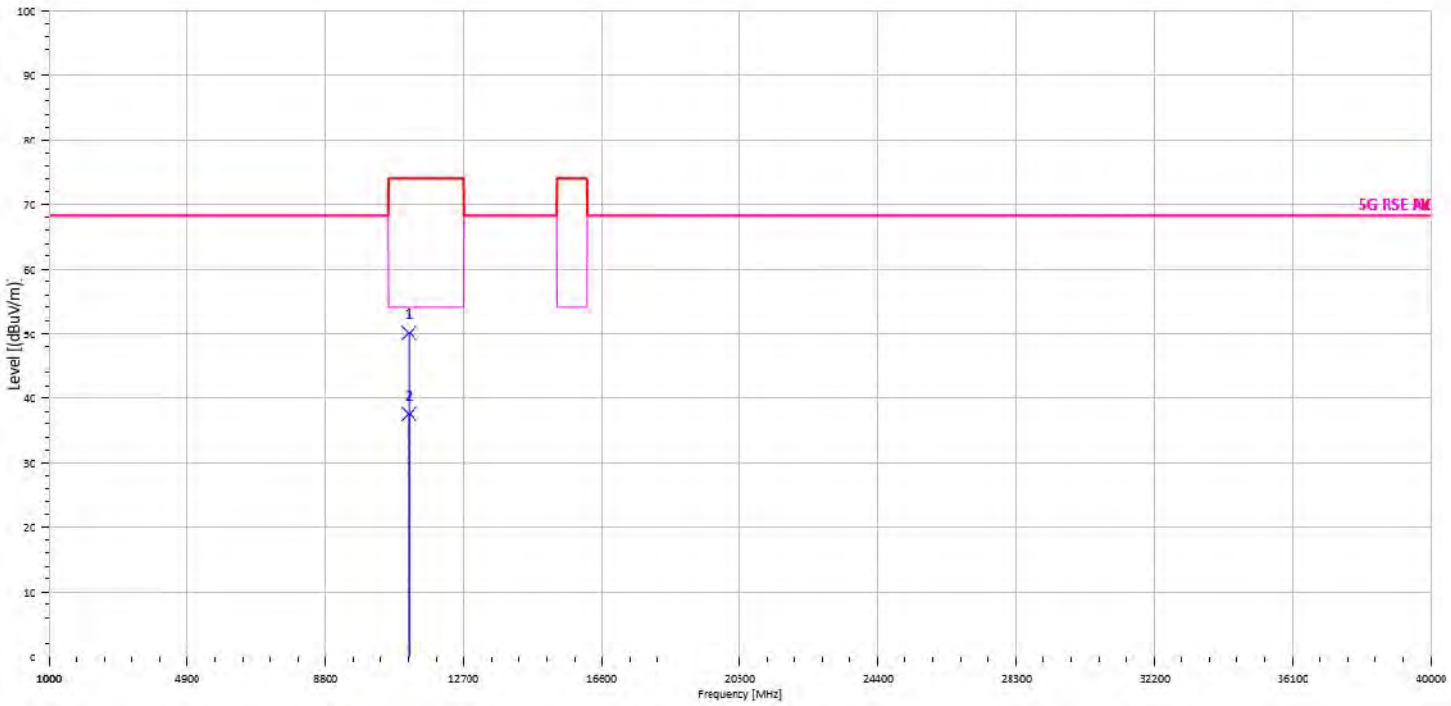
Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	38.62	11.51	50.13	74	-23.87
11160.00	H	Average	26.07	11.51	37.58	54	-16.42

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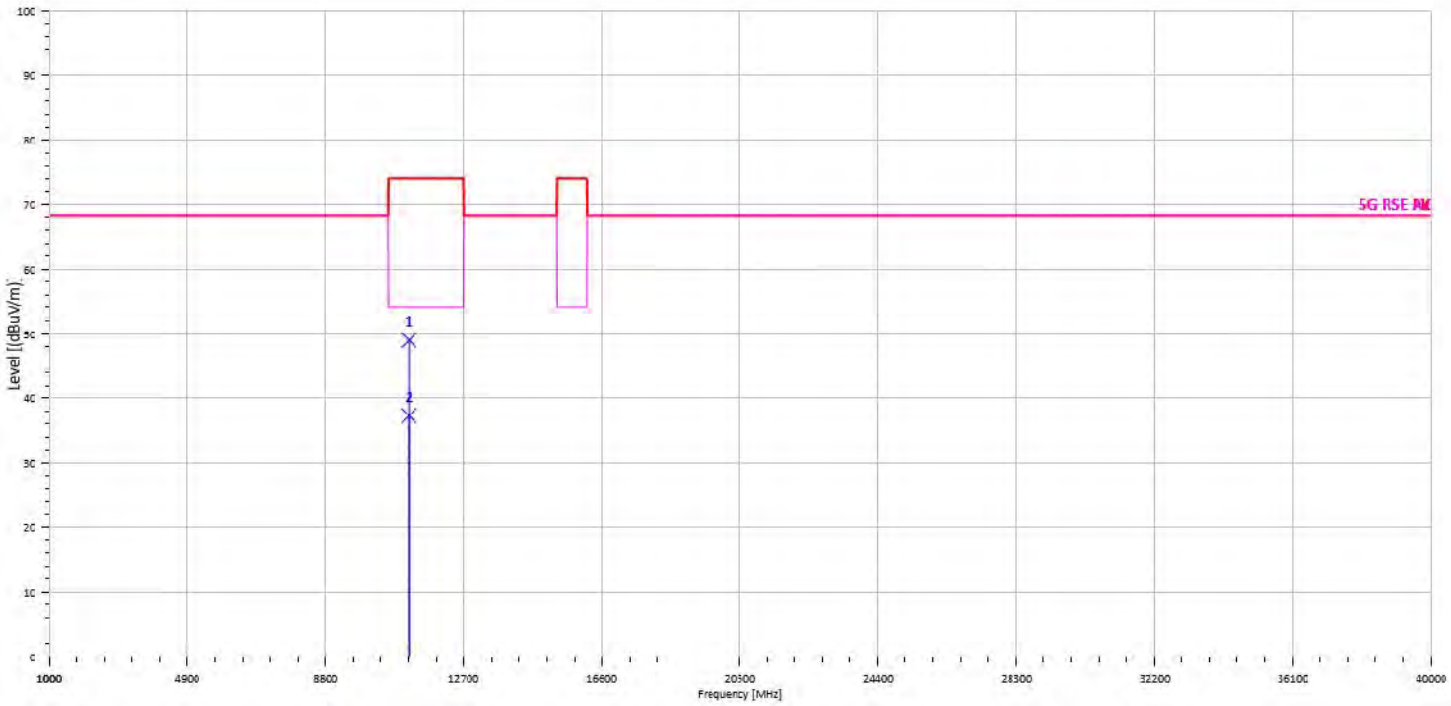
Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	37.48	11.51	48.99	74	-25.01
11160.00	H	Average	25.79	11.51	37.30	54	-16.70

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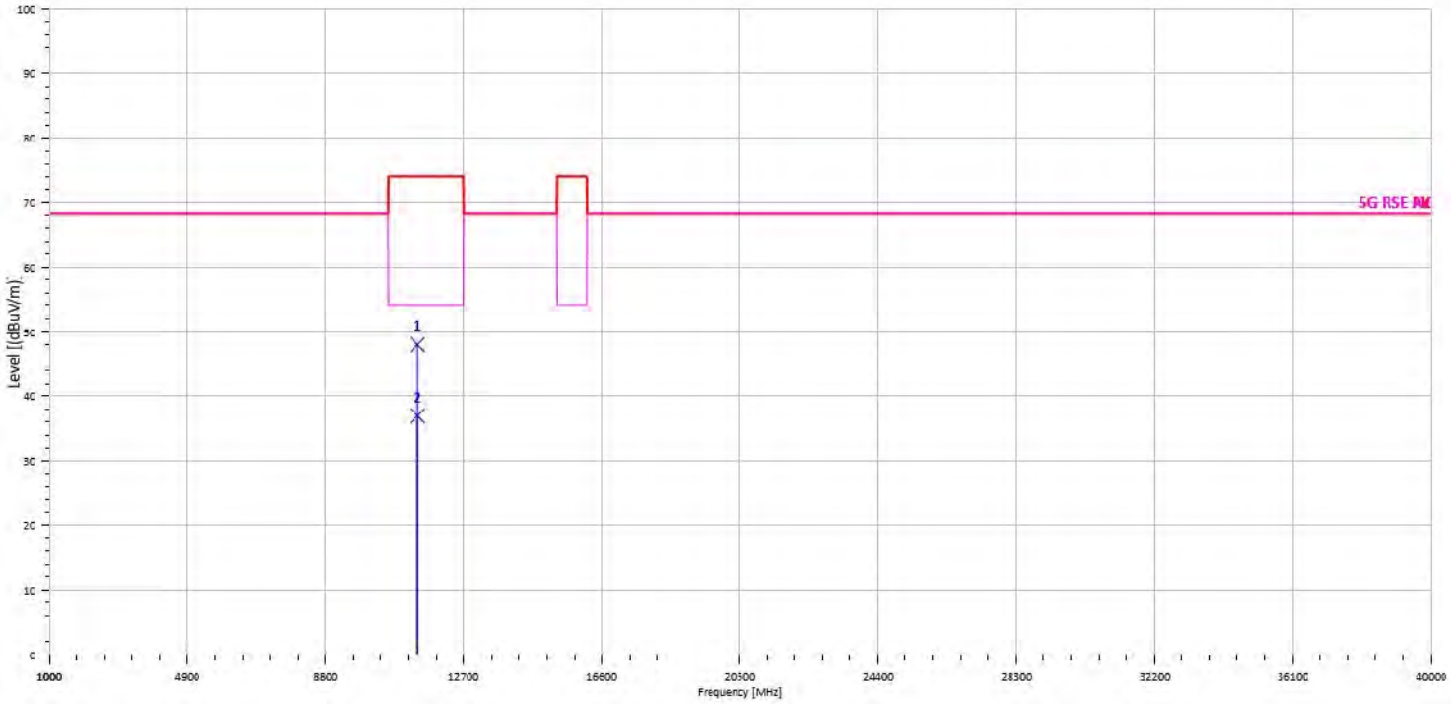
Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	36.42	11.60	48.02	74	-25.98
11400.00	H	Average	25.39	11.60	36.99	54	-17.01

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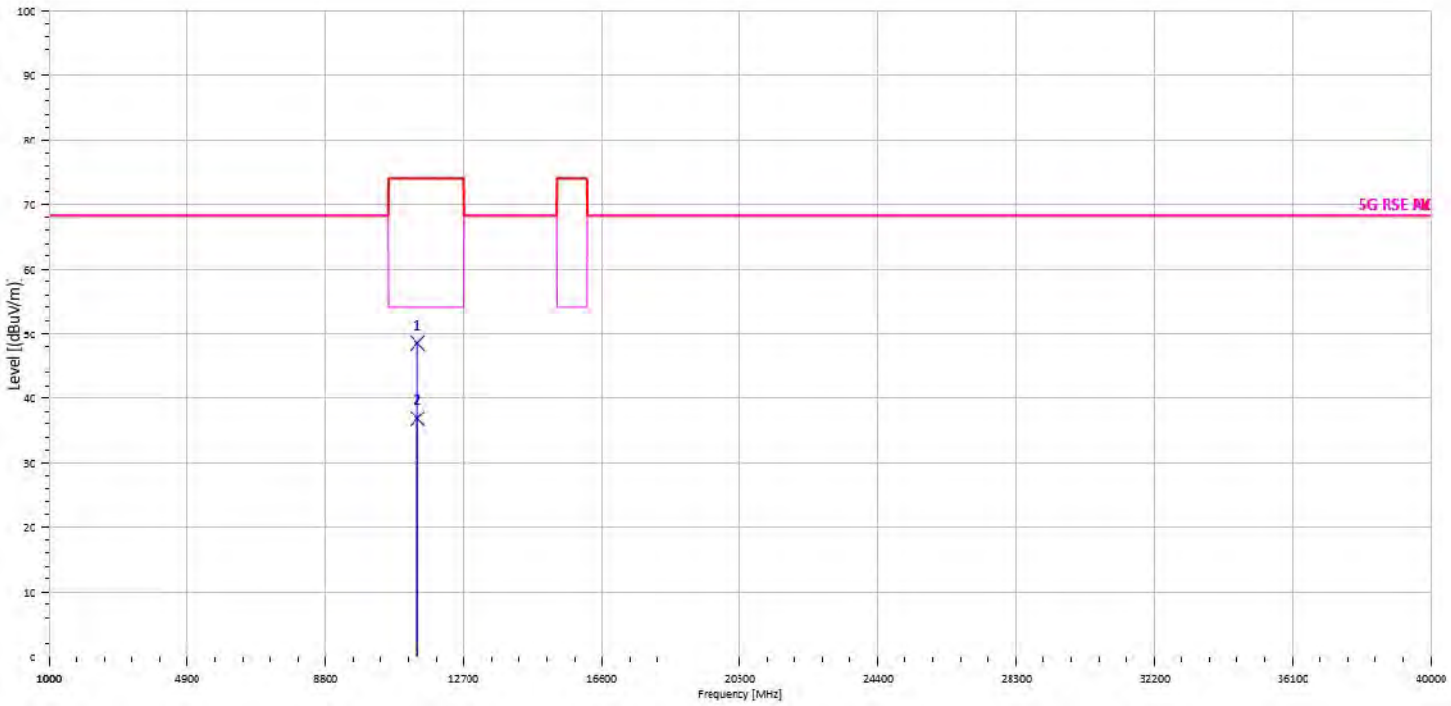
Operation Mode :	802.11aB3	Test Date :	2018/4/30
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	36.93	11.60	48.53	74	-25.47
11400.00	H	Average	25.24	11.60	36.84	54	-17.16

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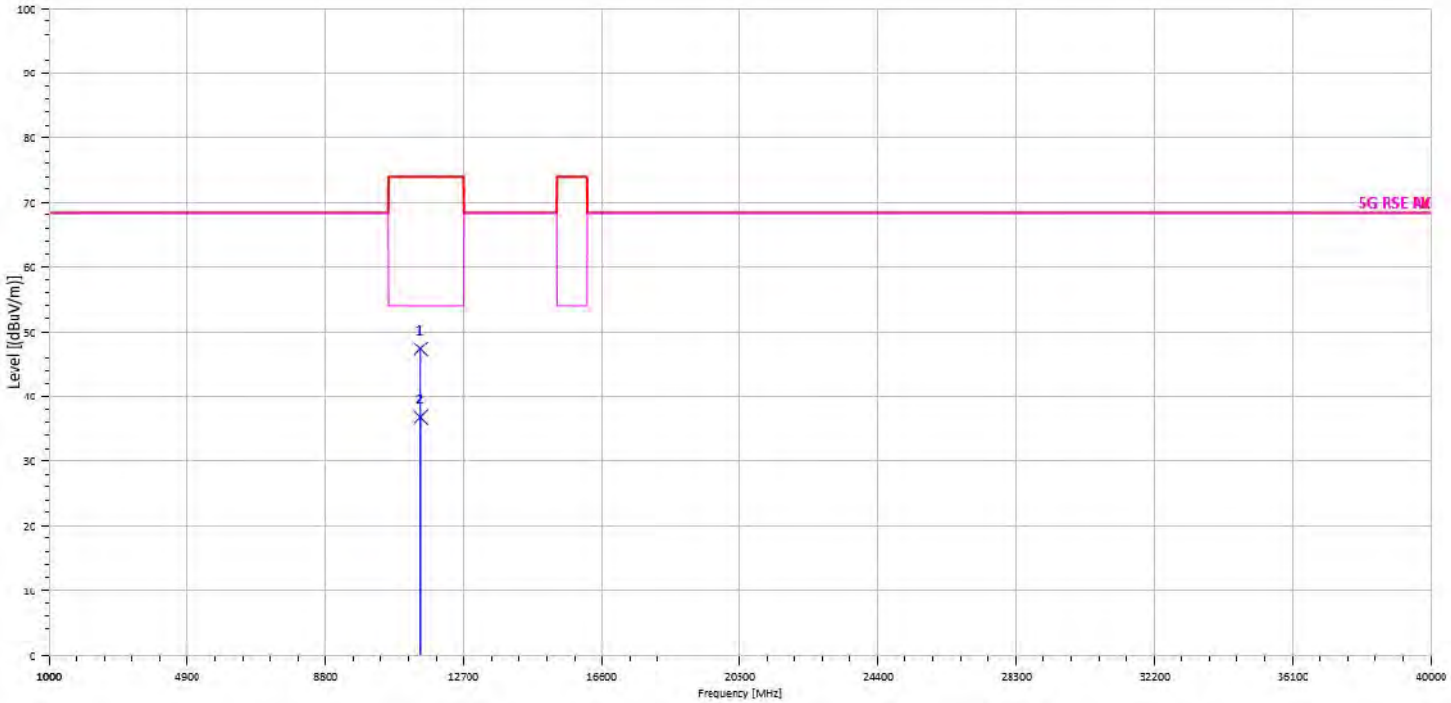
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	36.15	11.18	47.33	74	-26.67
11490.00	H	Average	25.64	11.18	36.82	54	-17.18

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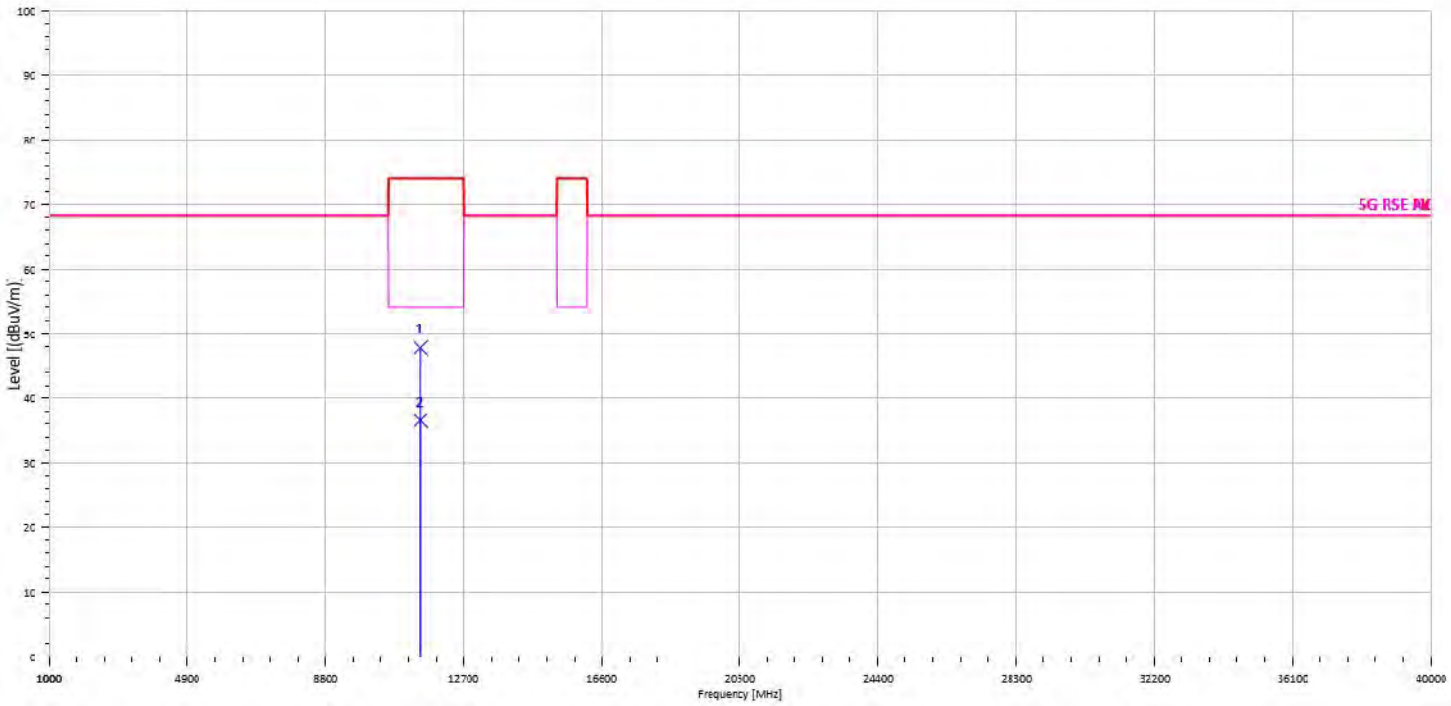
Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	36.65	11.18	47.83	74	-26.17
11490.00	H	Average	25.38	11.18	36.56	54	-17.44

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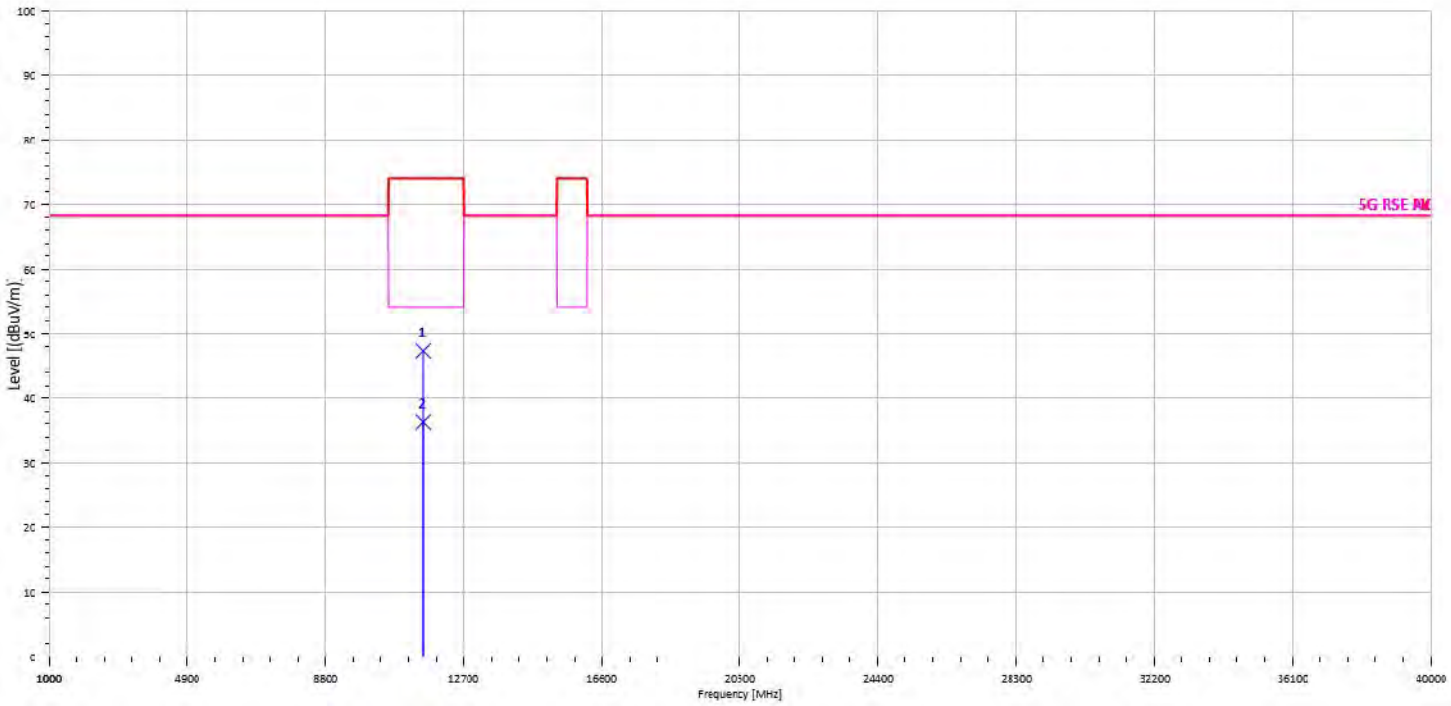
Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	36.29	11.06	47.35	74	-26.65
11570.00	H	Average	25.21	11.06	36.28	54	-17.72

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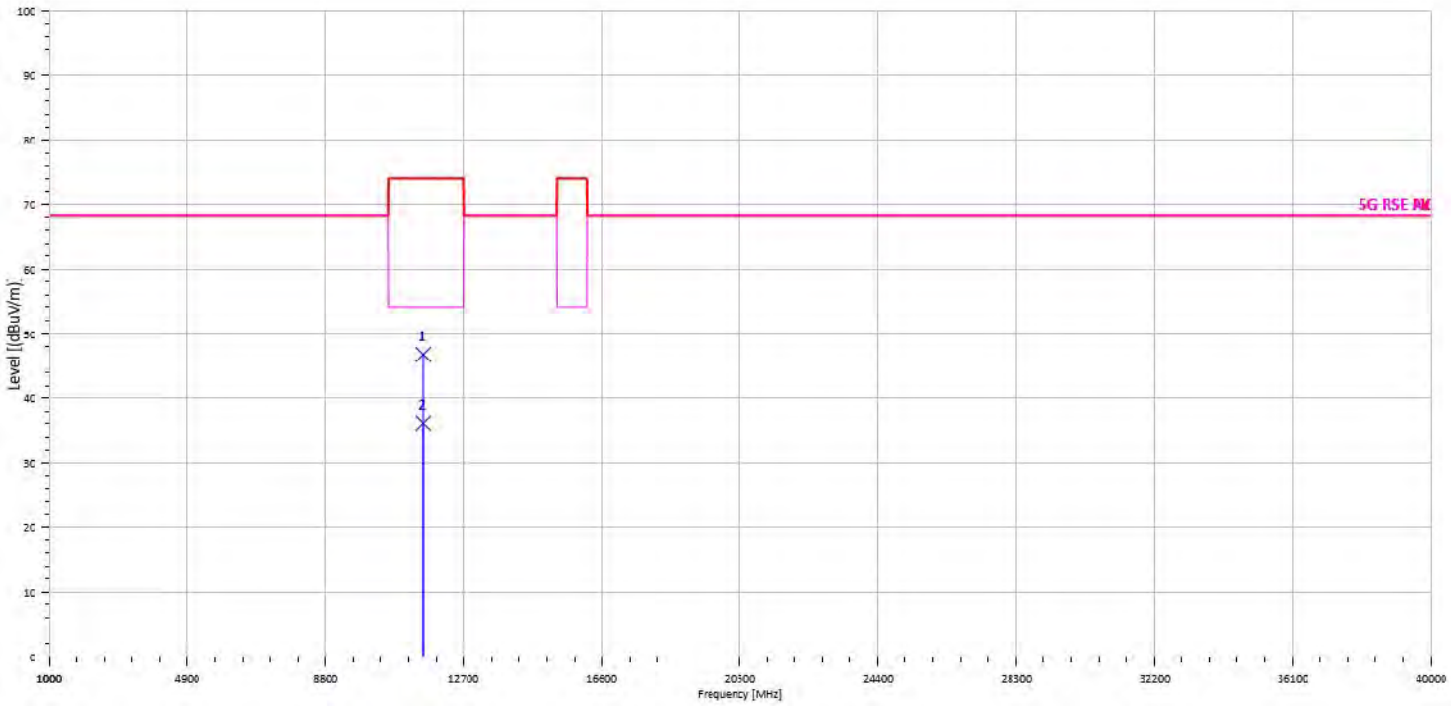
Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	35.72	11.06	46.78	74	-27.22
11570.00	H	Average	25.02	11.06	36.08	54	-17.92

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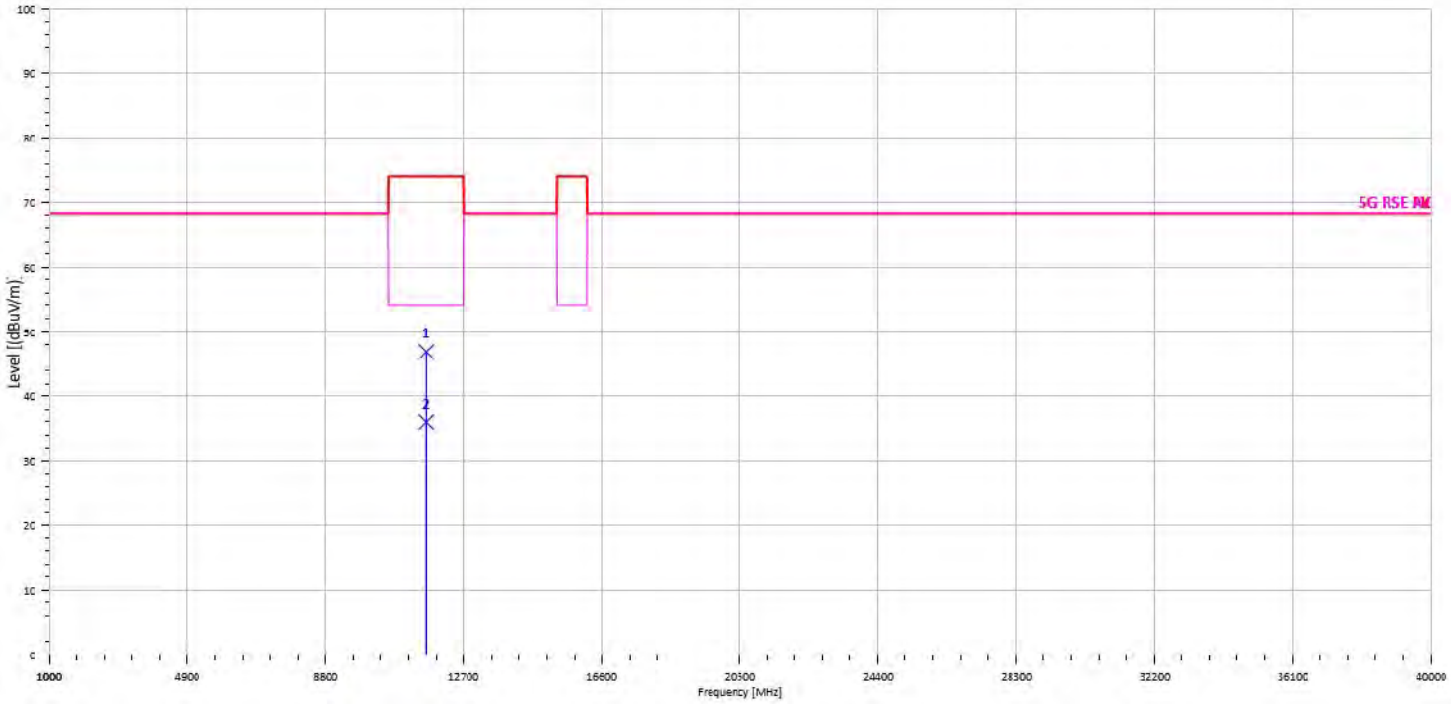
Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	36.22	10.69	46.90	74	-27.10
11650.00	H	Average	25.28	10.69	35.97	54	-18.03

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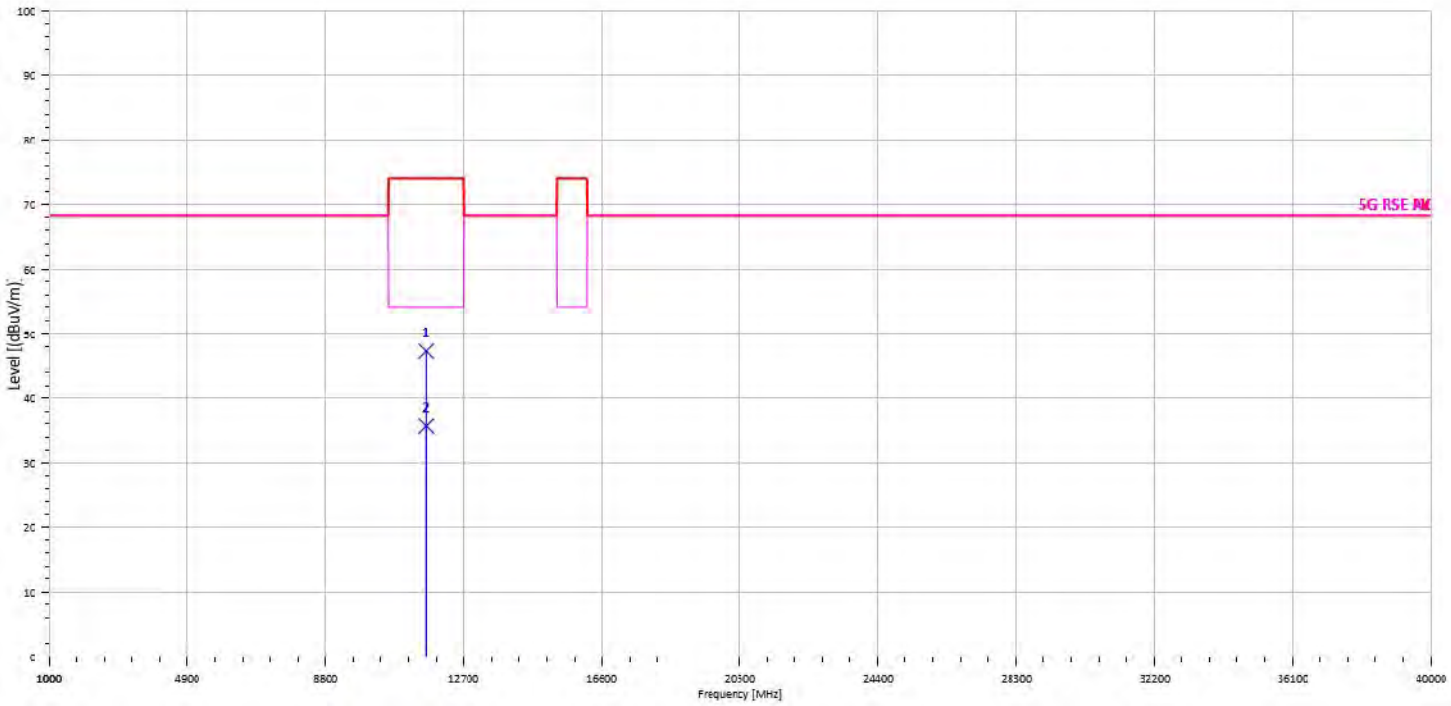
Operation Mode :	802.11aB4	Test Date :	2018/4/30
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	36.67	10.69	47.36	74	-26.64
11650.00	H	Average	25.01	10.69	35.70	54	-18.30

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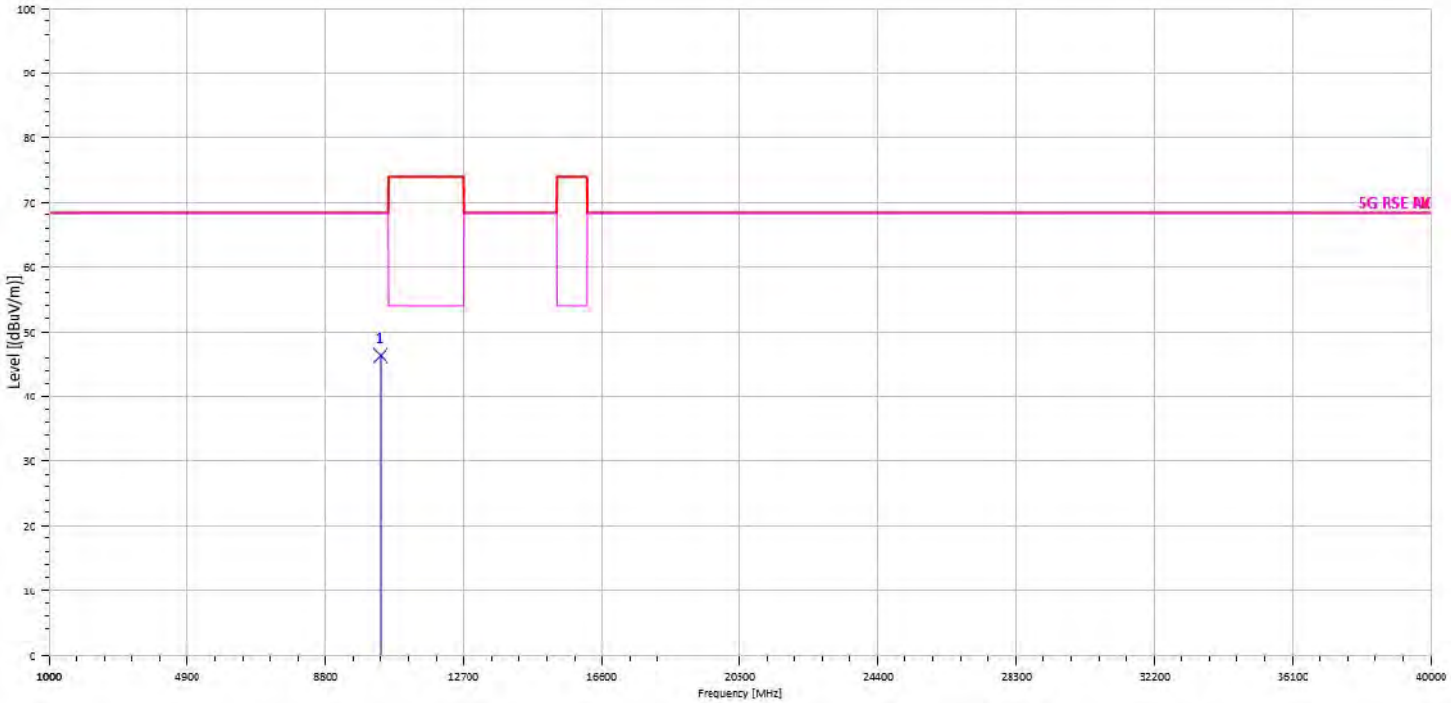
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	37.03	9.27	46.30	68.3	-22.00

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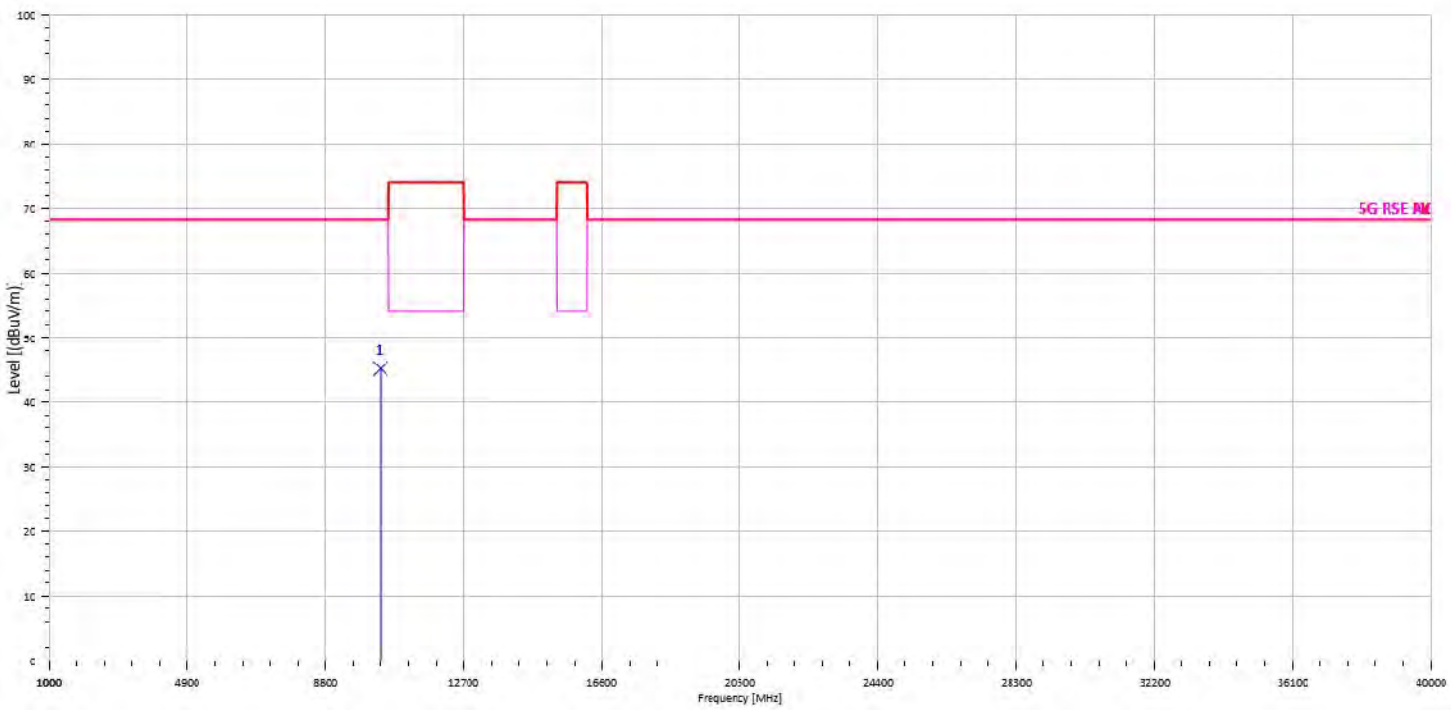
Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	35.94	9.27	45.21	68.3	-23.09

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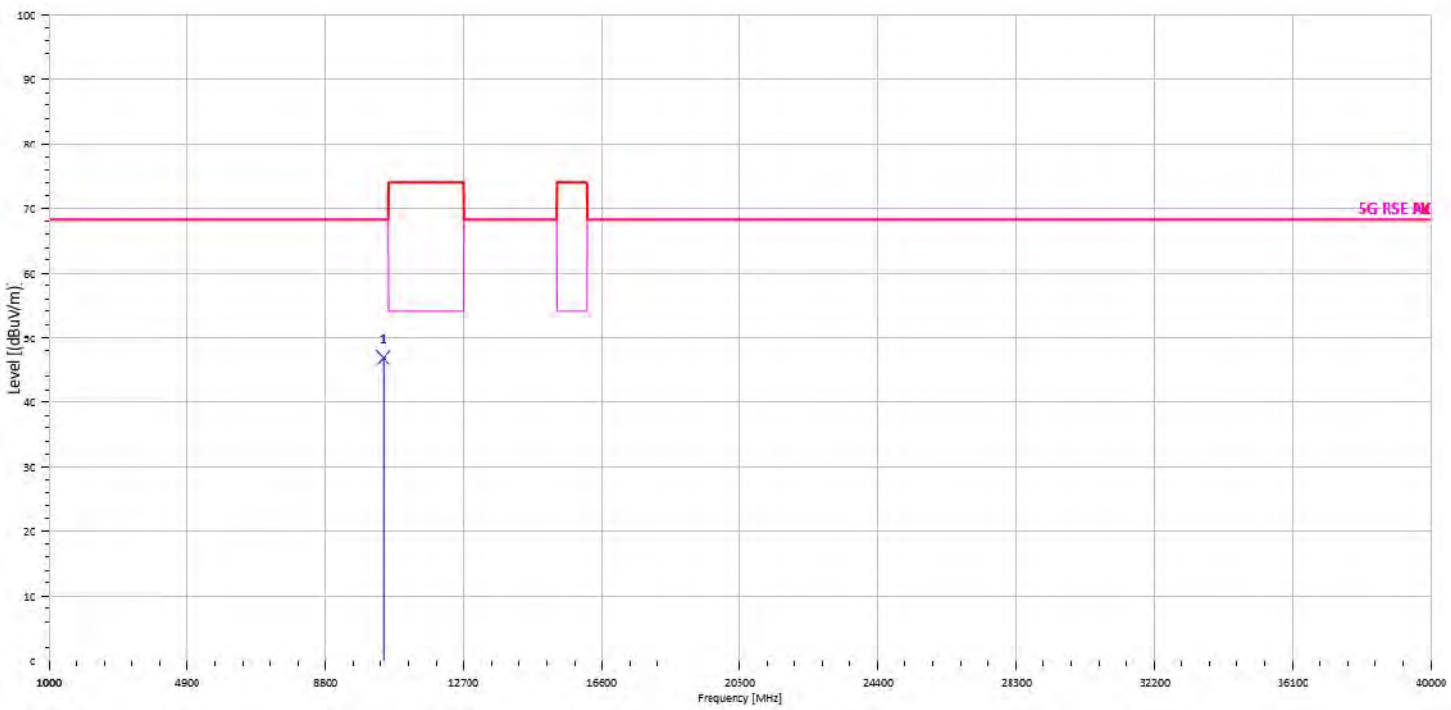
Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	37.35	9.57	46.92	68.3	-21.38

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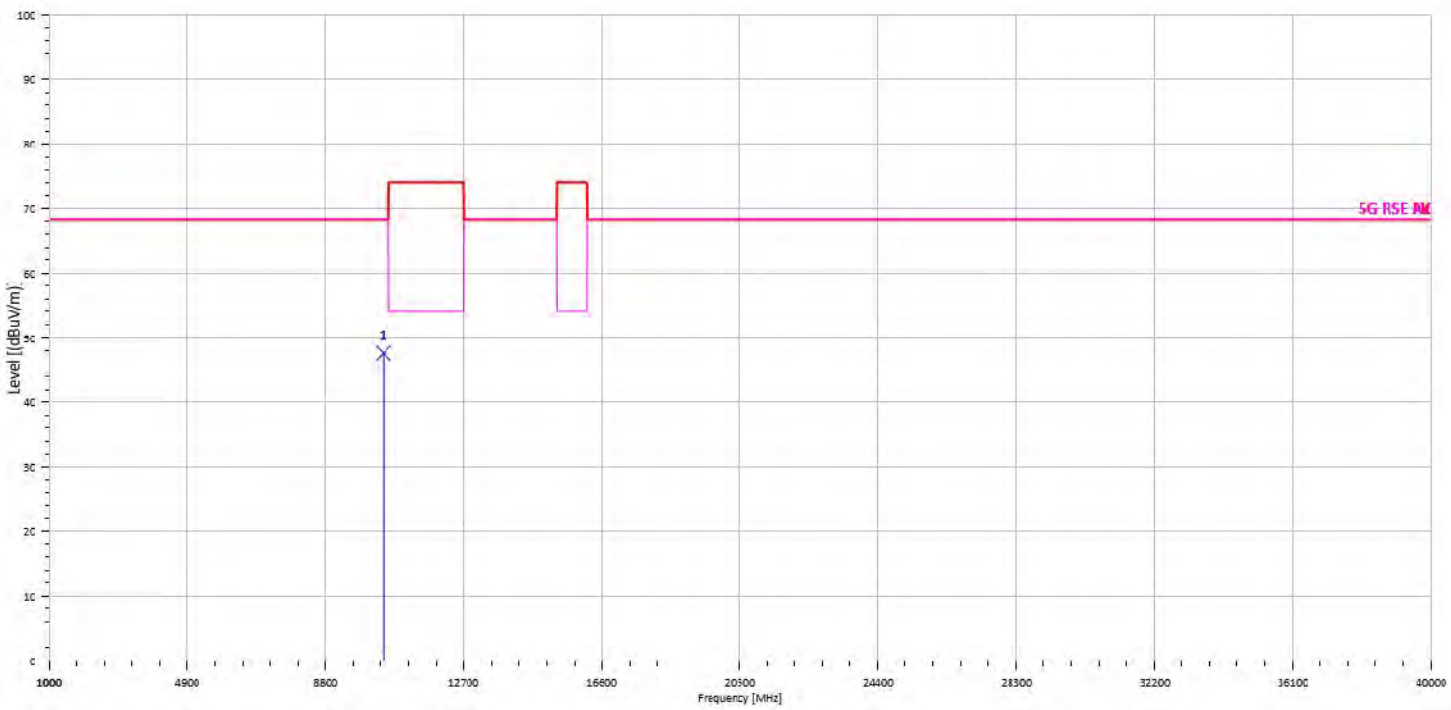
Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	38.06	9.57	47.63	68.3	-20.67

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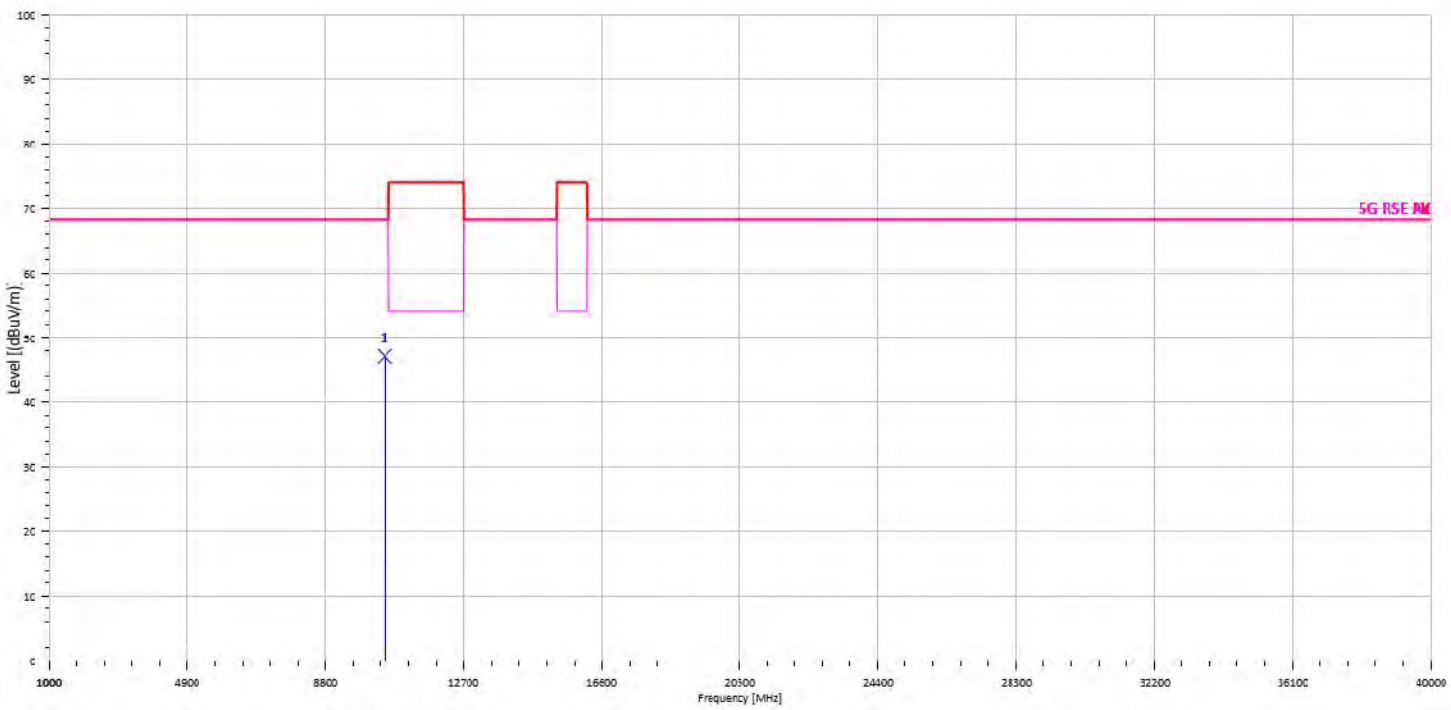
Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	37.53	9.64	47.17	68.3	-21.13

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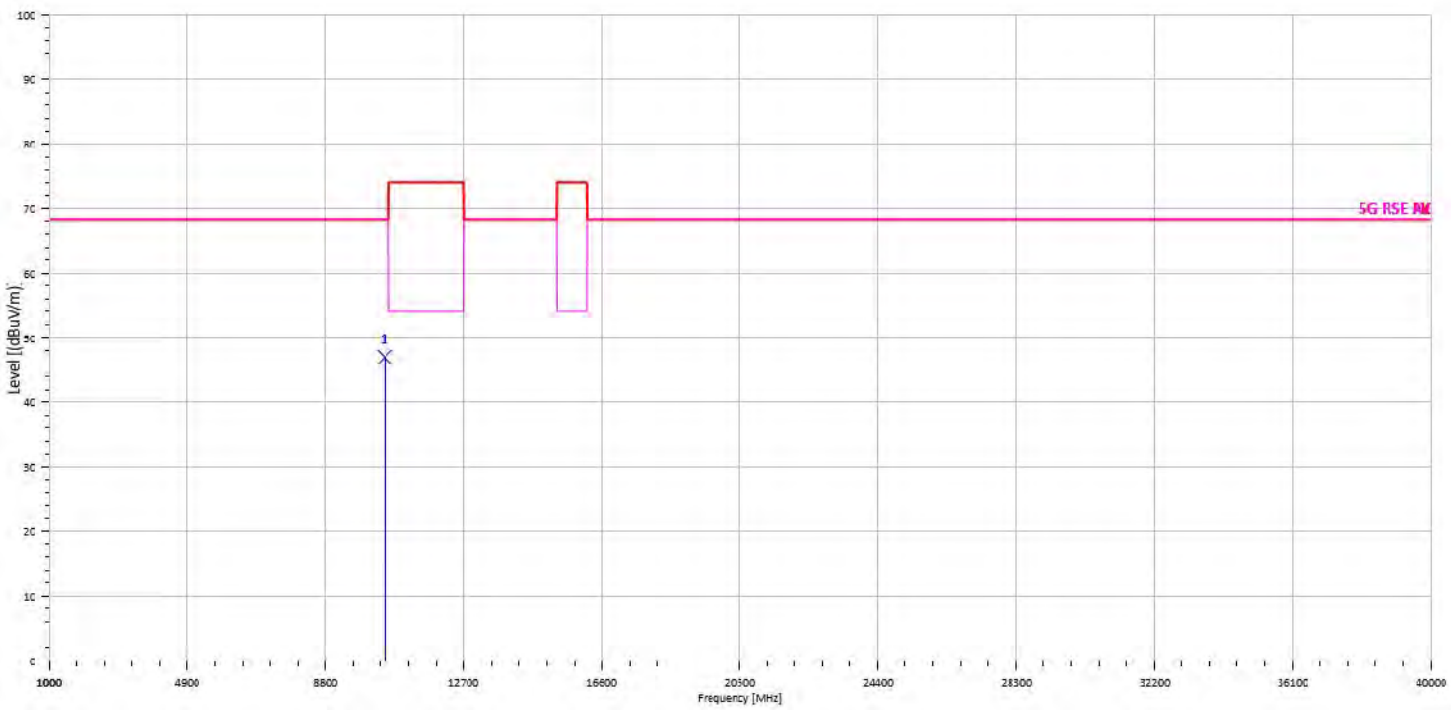
Operation Mode :	802.11n20B1	Test Date :	2018/4/30
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	37.35	9.64	47.00	68.3	-21.30

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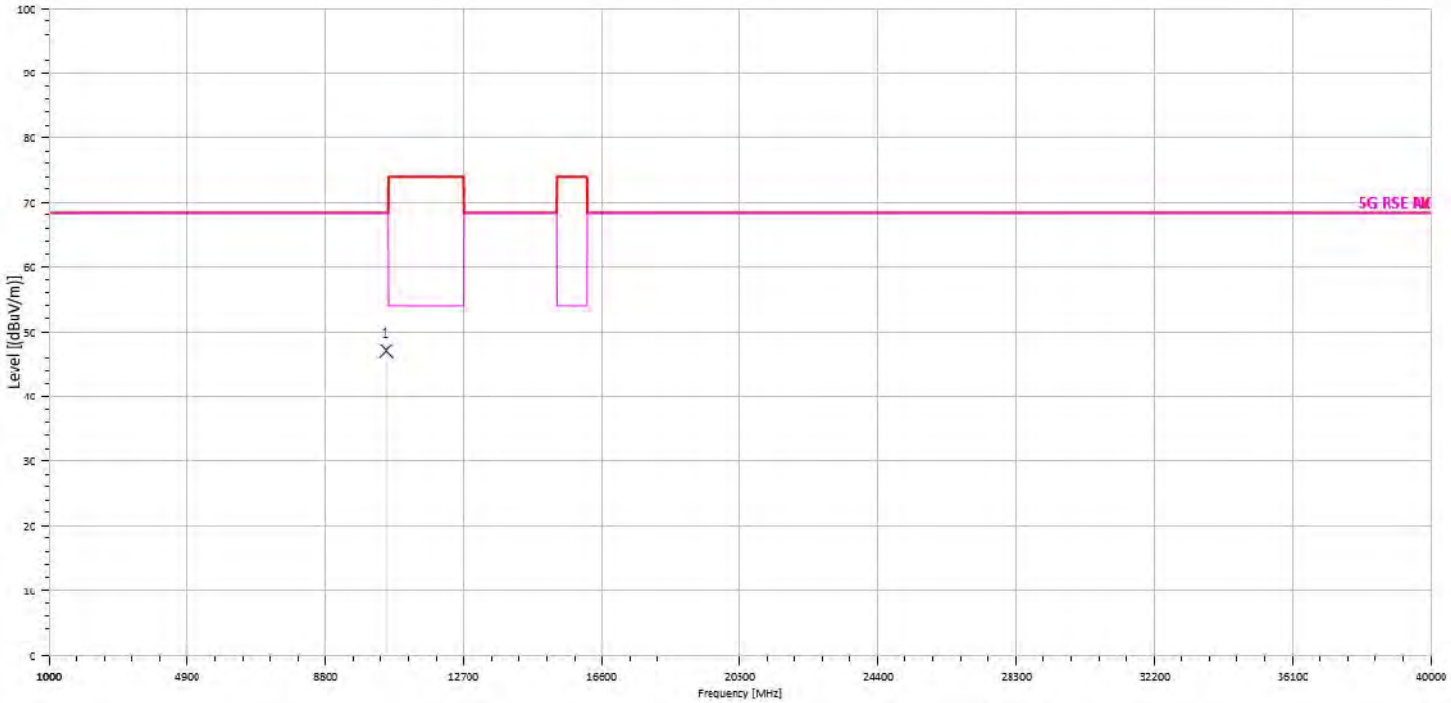
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	37.27	9.77	47.04	68.3	-21.26

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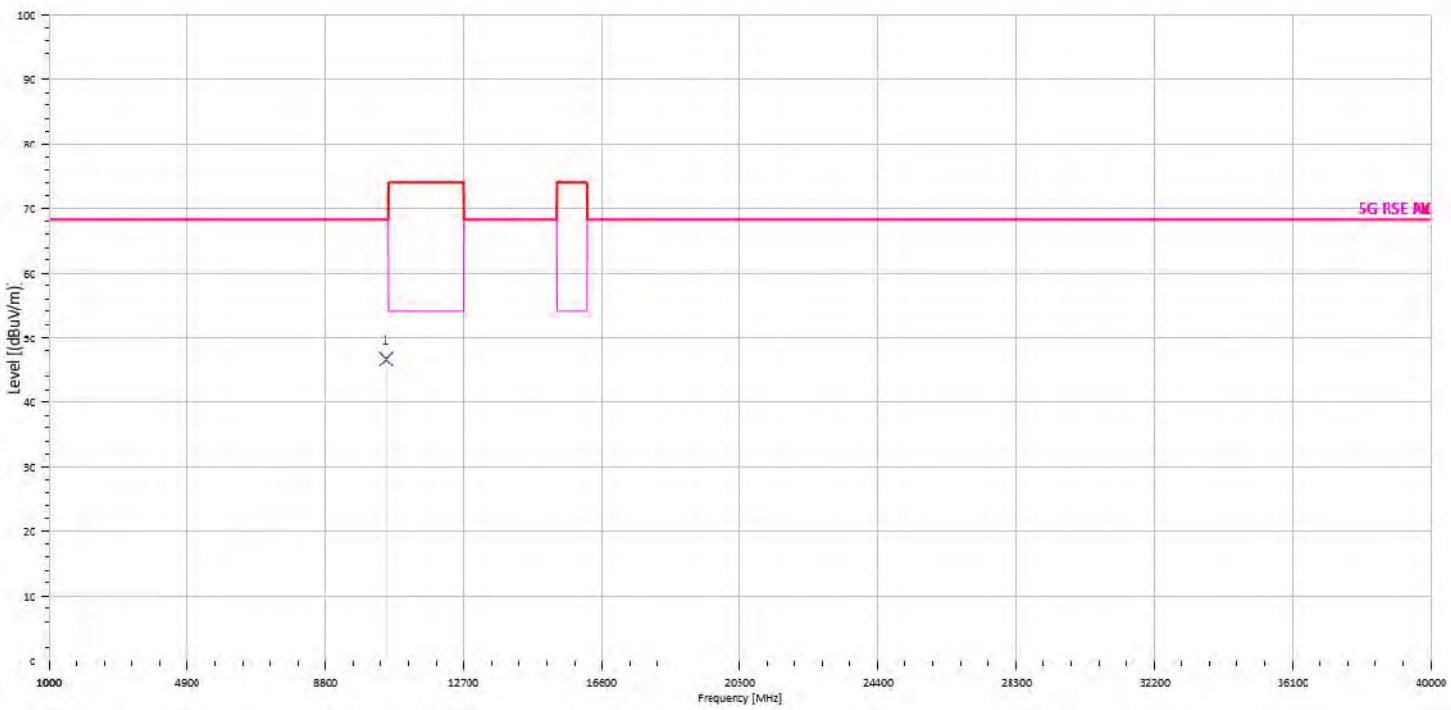
Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	36.93	9.77	46.70	68.3	-21.60

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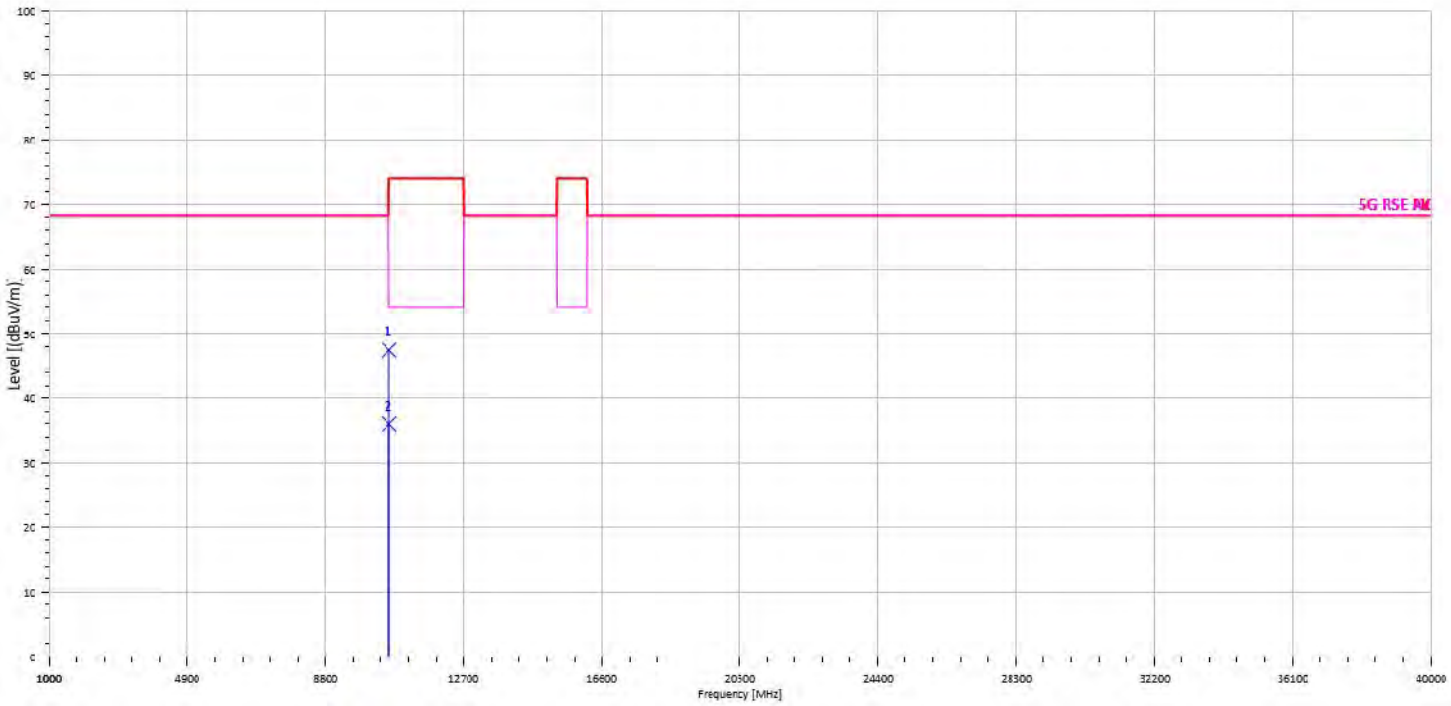
Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	37.34	10.15	47.49	74	-26.52
10600.00	H	Average	25.83	10.15	35.98	54	-18.02

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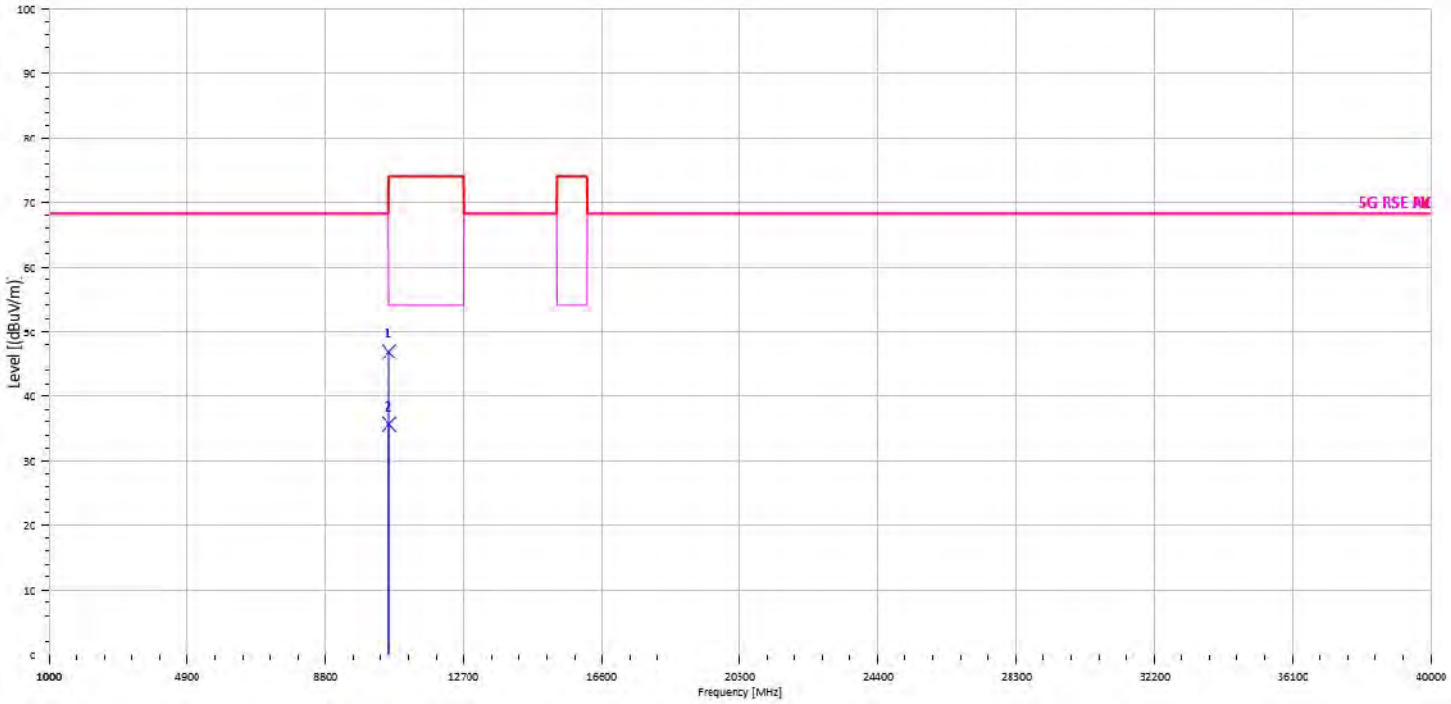
Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	36.75	10.15	46.89	74	-27.11
10600.00	H	Average	25.53	10.15	35.68	54	-18.32

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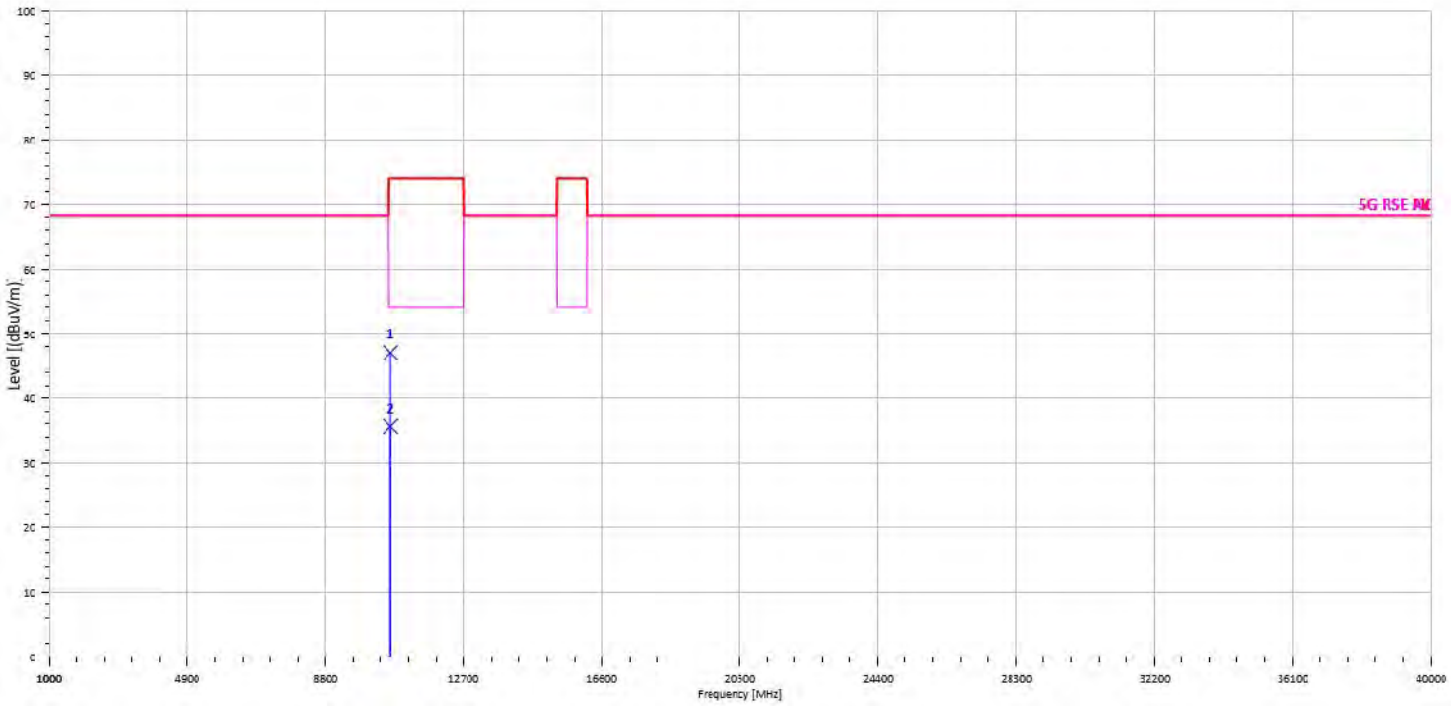
Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	37.00	10.07	47.07	74	-26.93
10640.00	H	Average	25.57	10.07	35.64	54	-18.36

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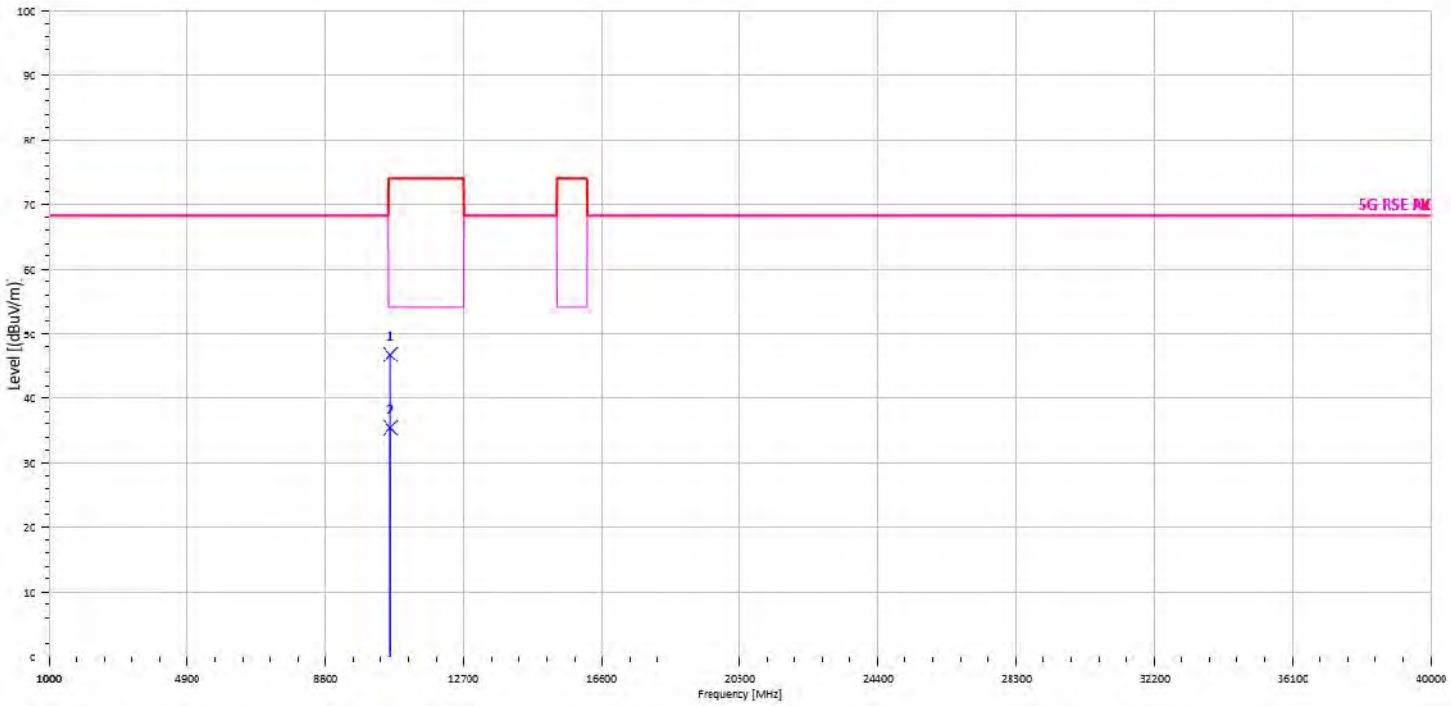
Operation Mode :	802.11n20B2	Test Date :	2018/4/30
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	36.70	10.07	46.77	74	-27.23
10640.00	H	Average	25.38	10.07	35.45	54	-18.55

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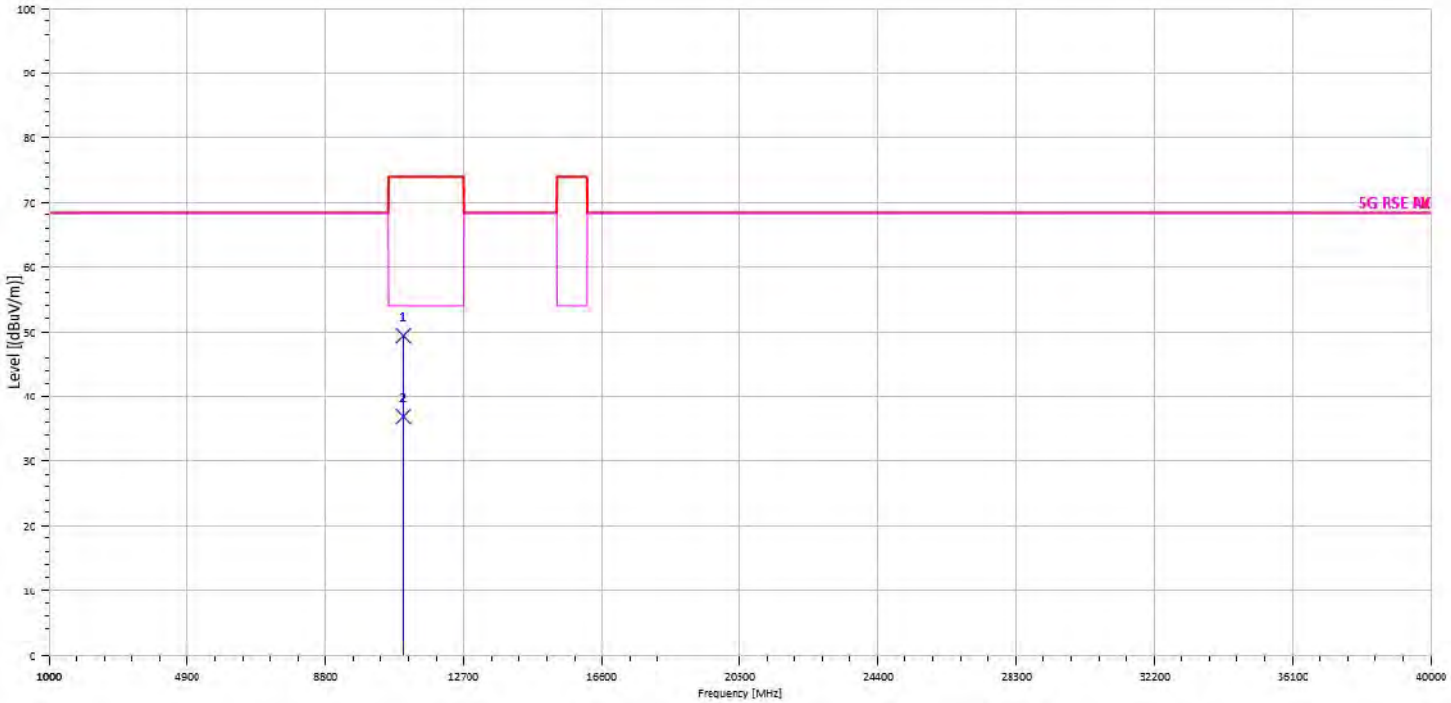
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	37.70	11.71	49.41	74	-24.59
11000.00	H	Average	25.21	11.71	36.92	54	-17.08

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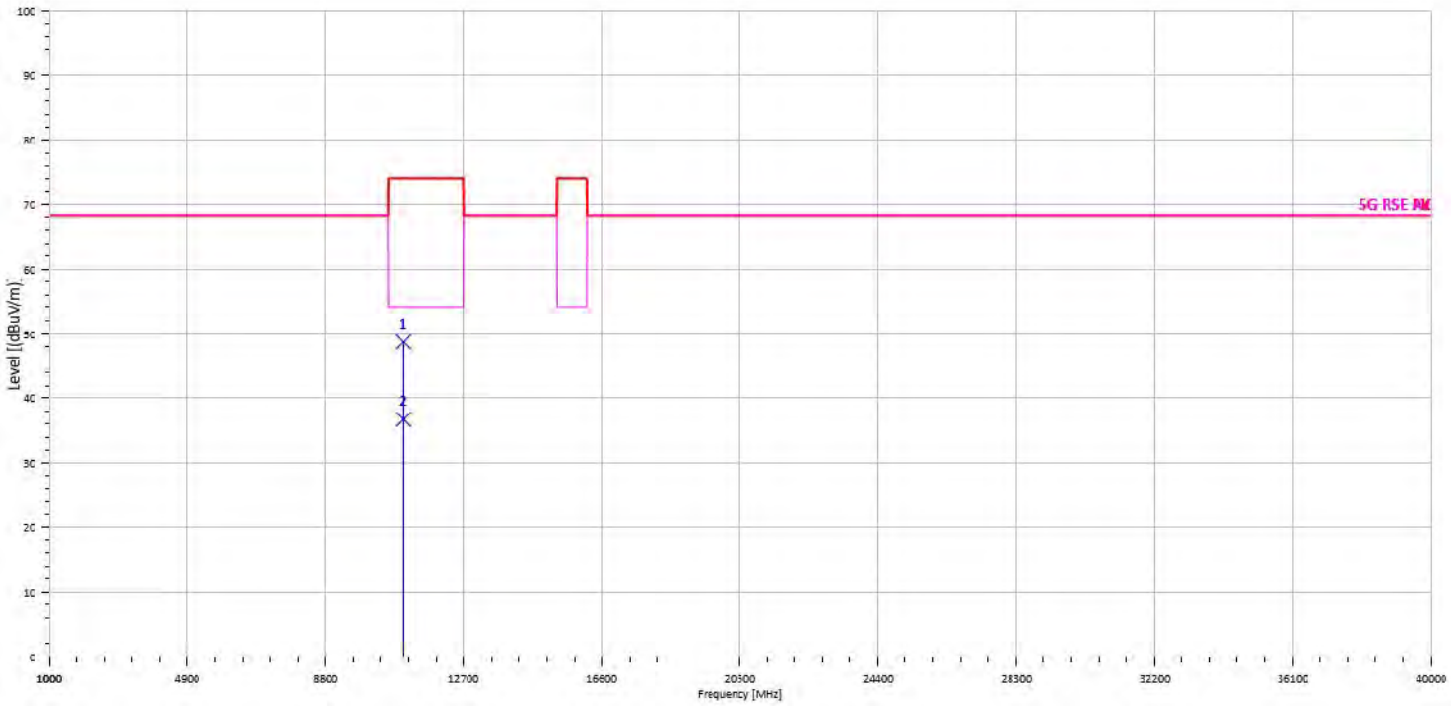
Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	36.99	11.71	48.70	74	-25.30
11000.00	H	Average	25.03	11.71	36.74	54	-17.26

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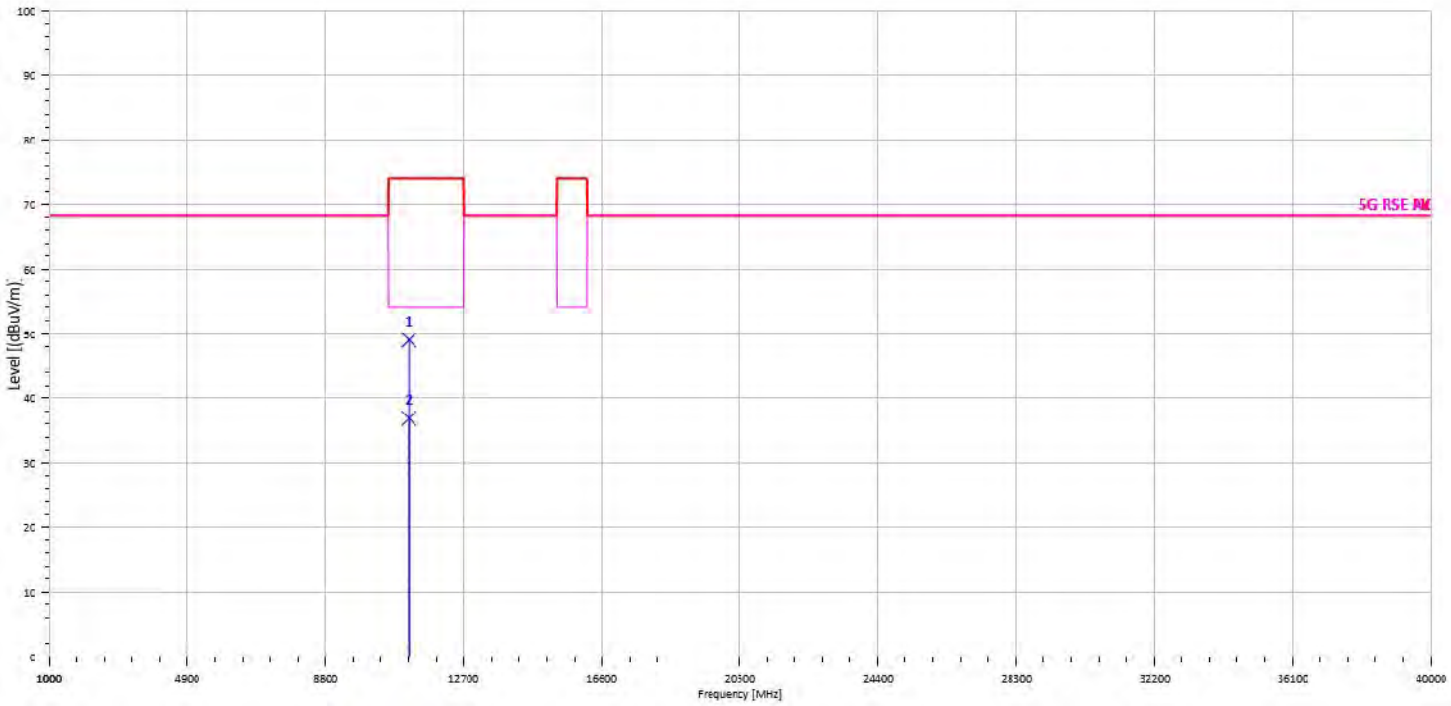
Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	37.53	11.51	49.04	74	-24.96
11160.00	H	Average	25.37	11.51	36.88	54	-17.12

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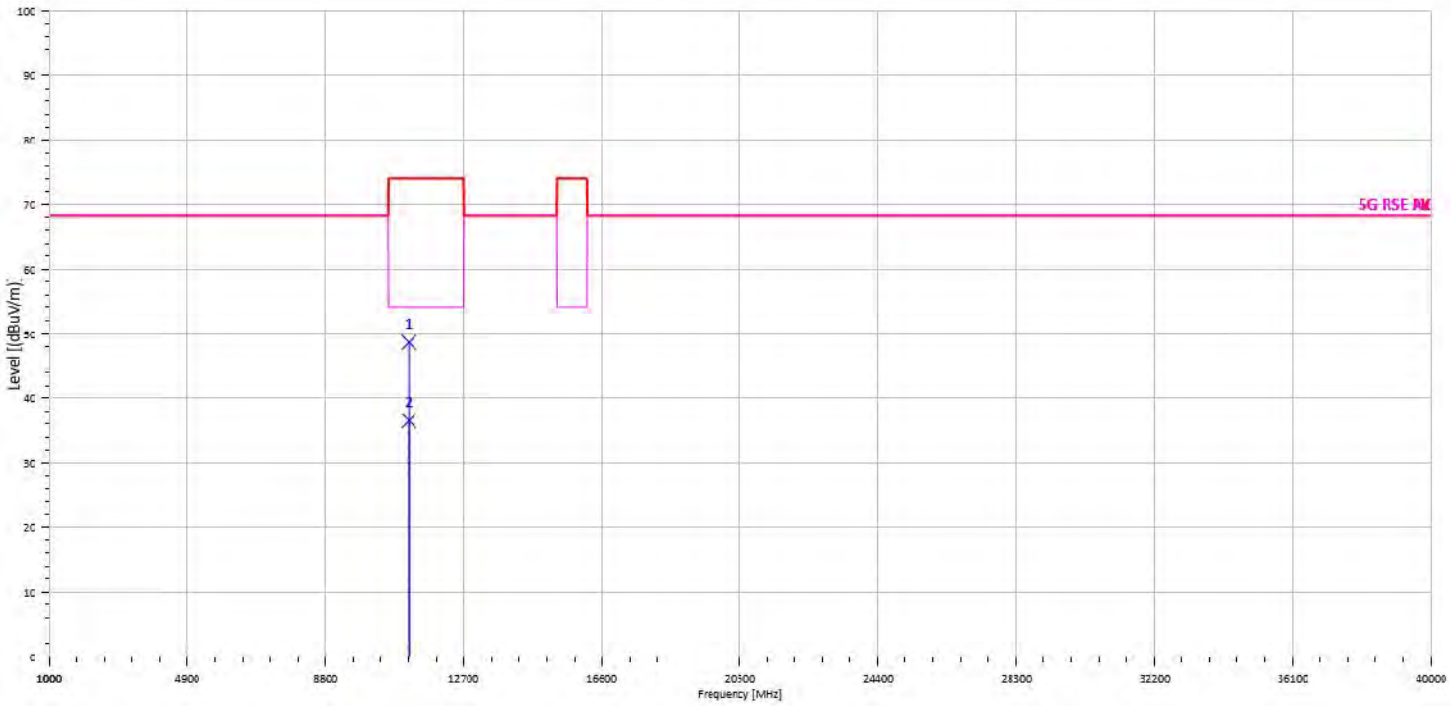
Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	37.14	11.51	48.65	74	-25.35
11160.00	H	Average	25.02	11.51	36.53	54	-17.47

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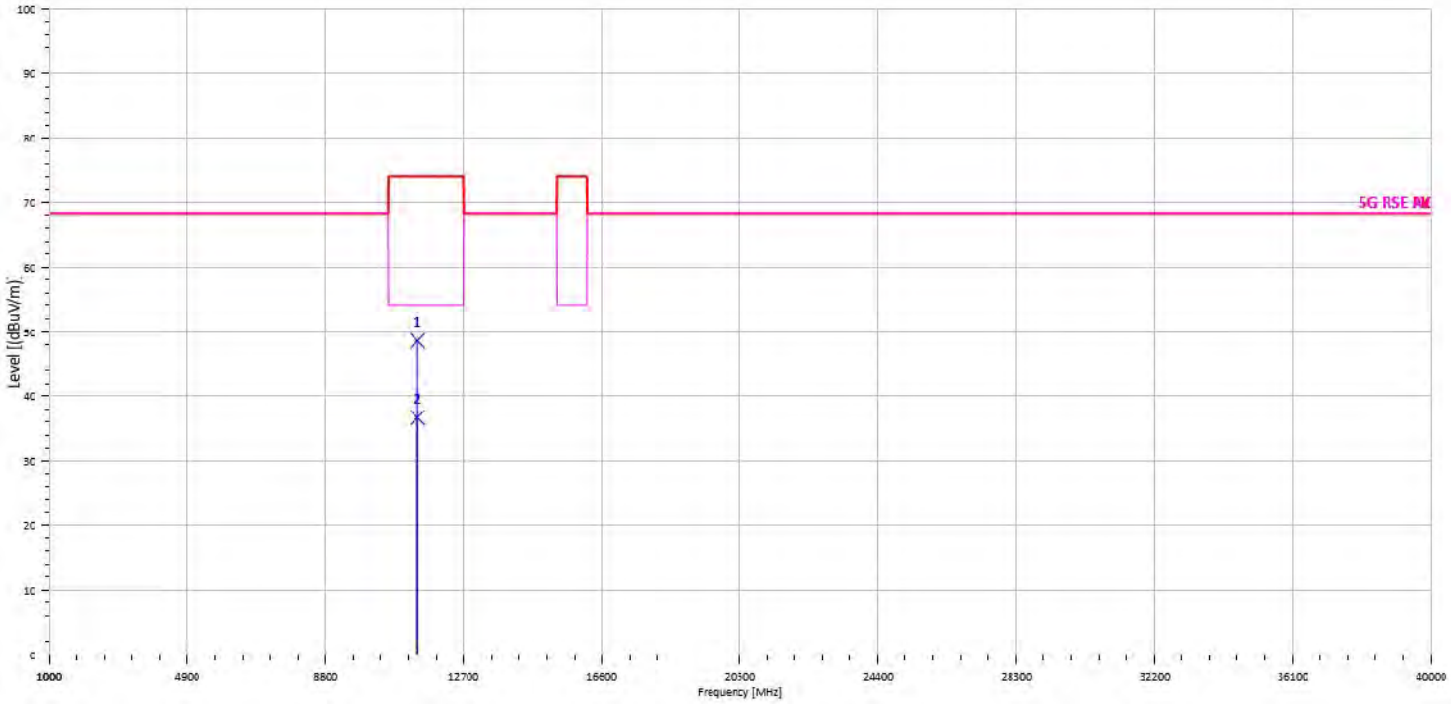
Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	37.00	11.60	48.60	74	-25.40
11400.00	H	Average	25.11	11.60	36.71	54	-17.29

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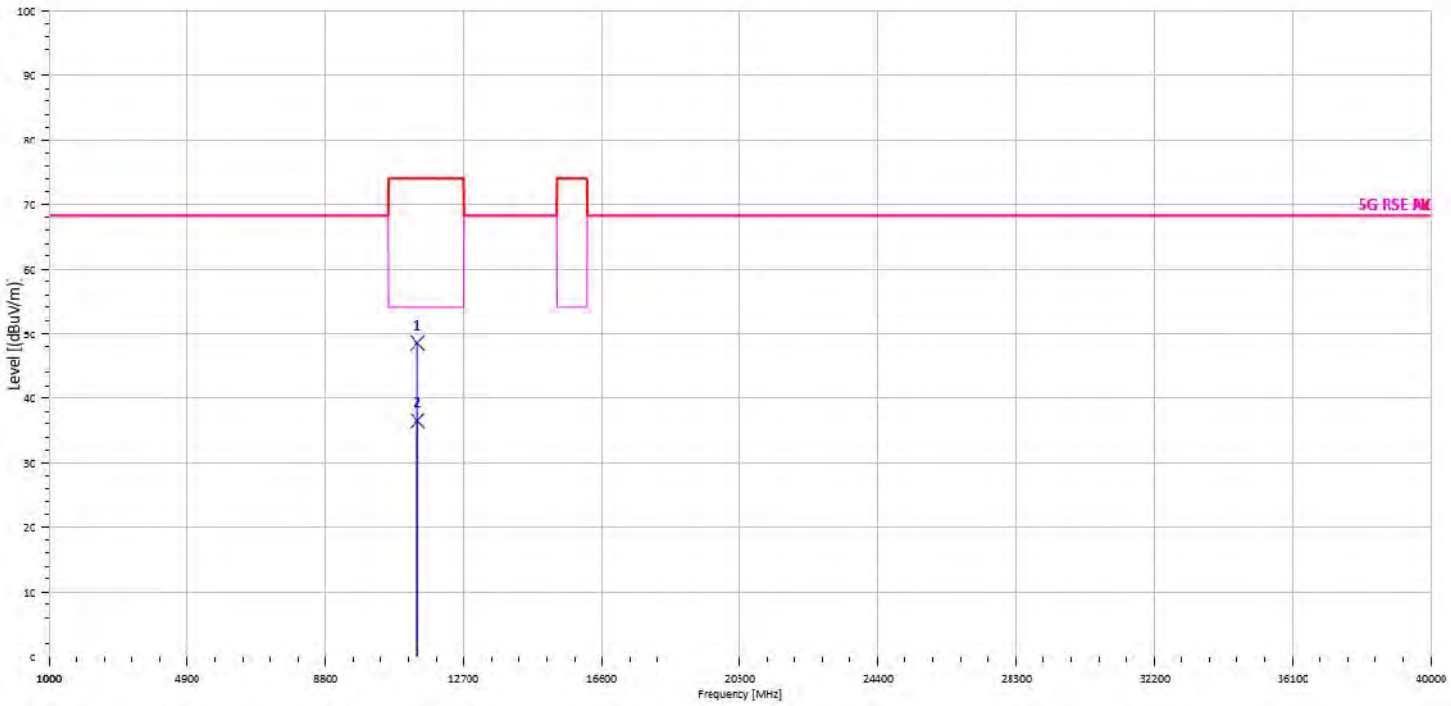
Operation Mode :	802.11n20B3	Test Date :	2018/4/30
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	36.94	11.60	48.54	74	-25.47
11400.00	H	Average	24.88	11.60	36.48	54	-17.52

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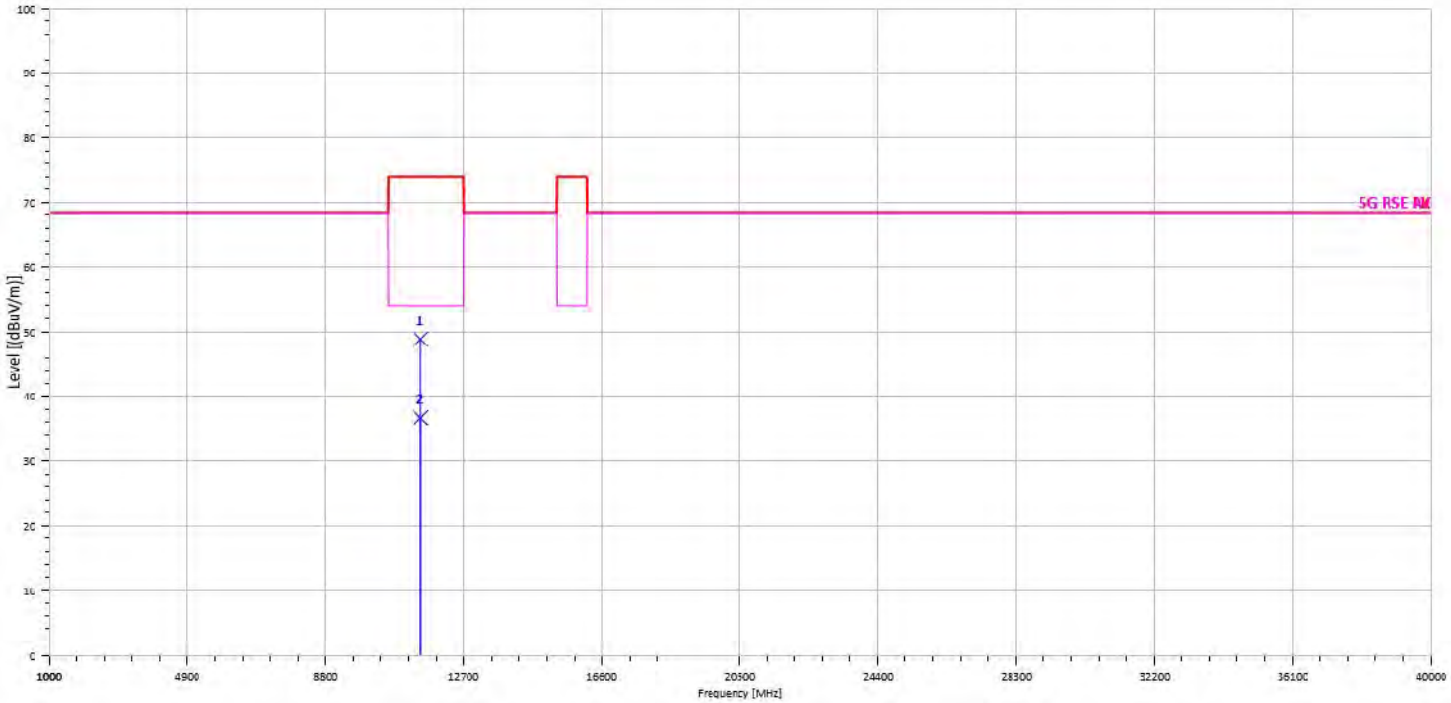
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	37.66	11.18	48.84	74	-25.16
11490.00	H	Average	25.53	11.18	36.71	54	-17.29

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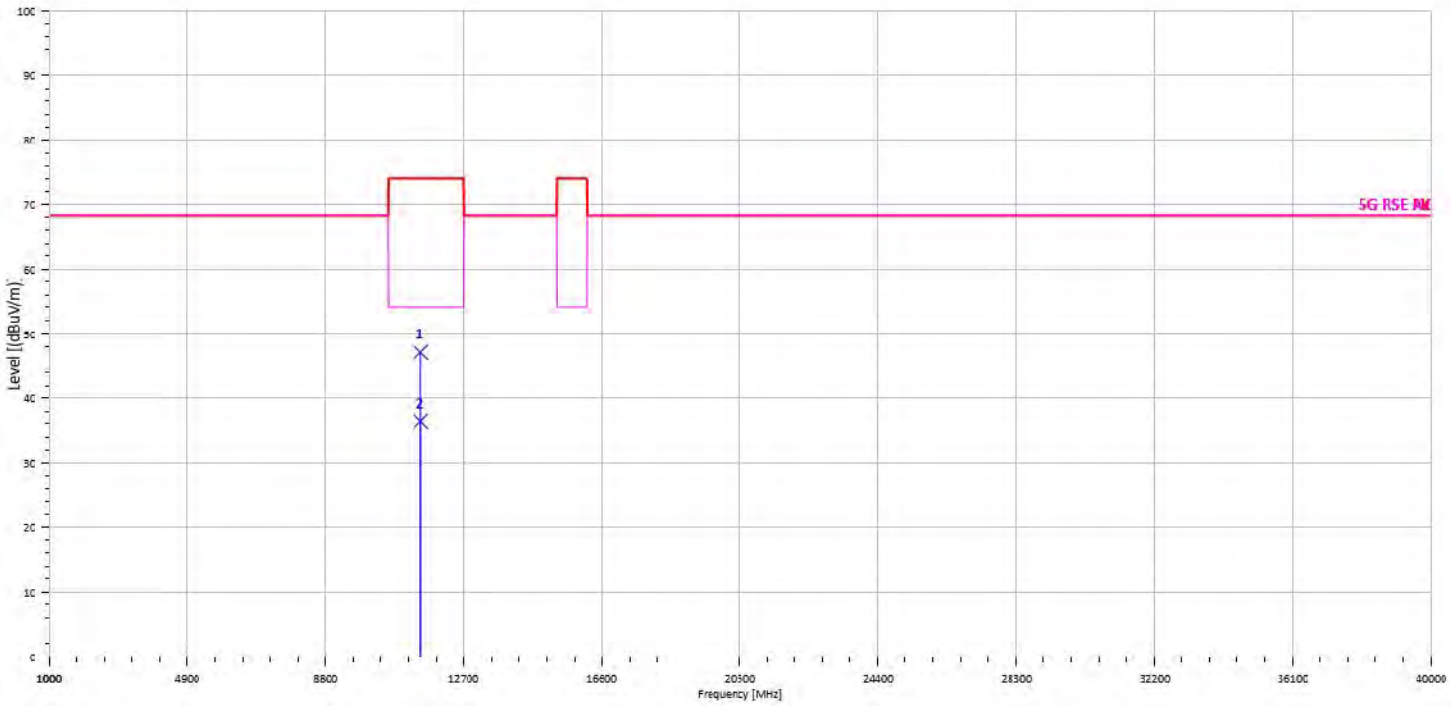
Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	36.00	11.18	47.18	74	-26.82
11490.00	H	Average	25.23	11.18	36.41	54	-17.59

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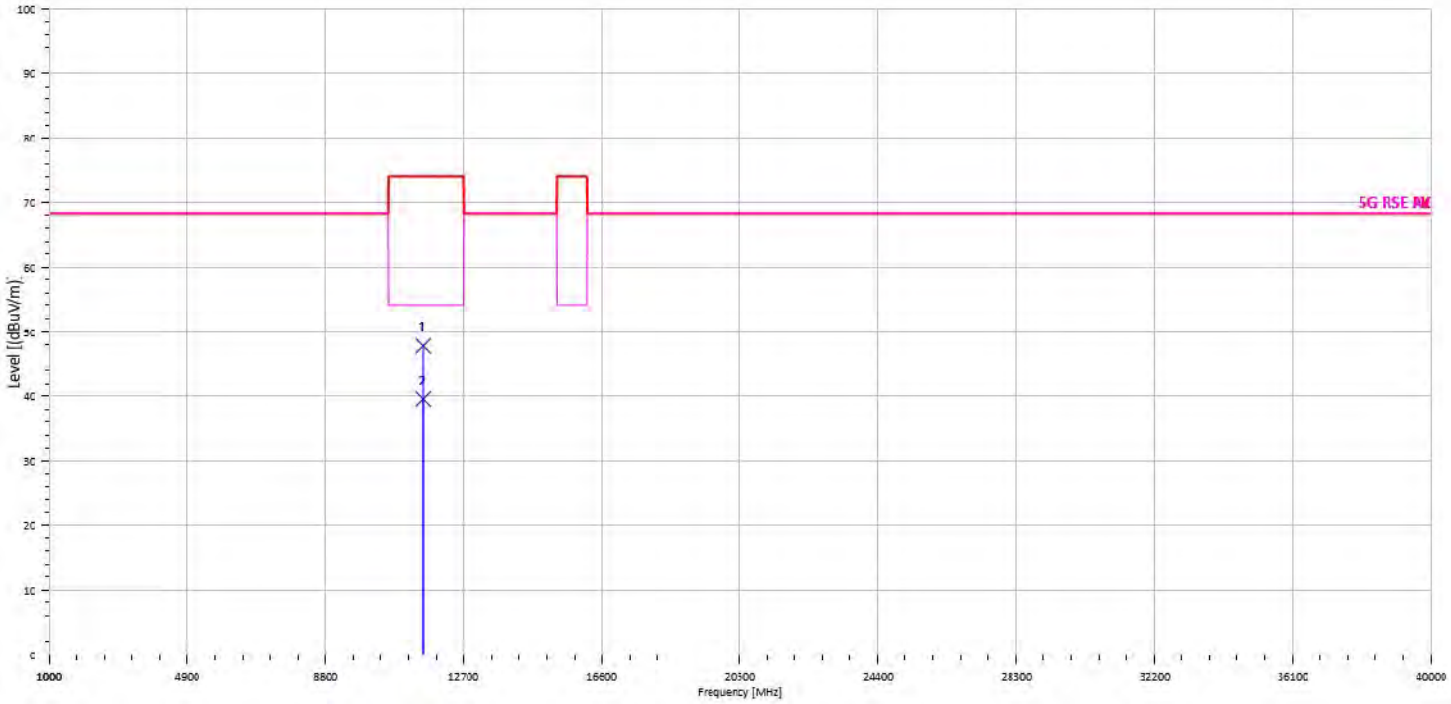
Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	36.77	11.06	47.83	74	-26.17
11570.00	H	Average	28.52	11.06	39.58	54	-14.42

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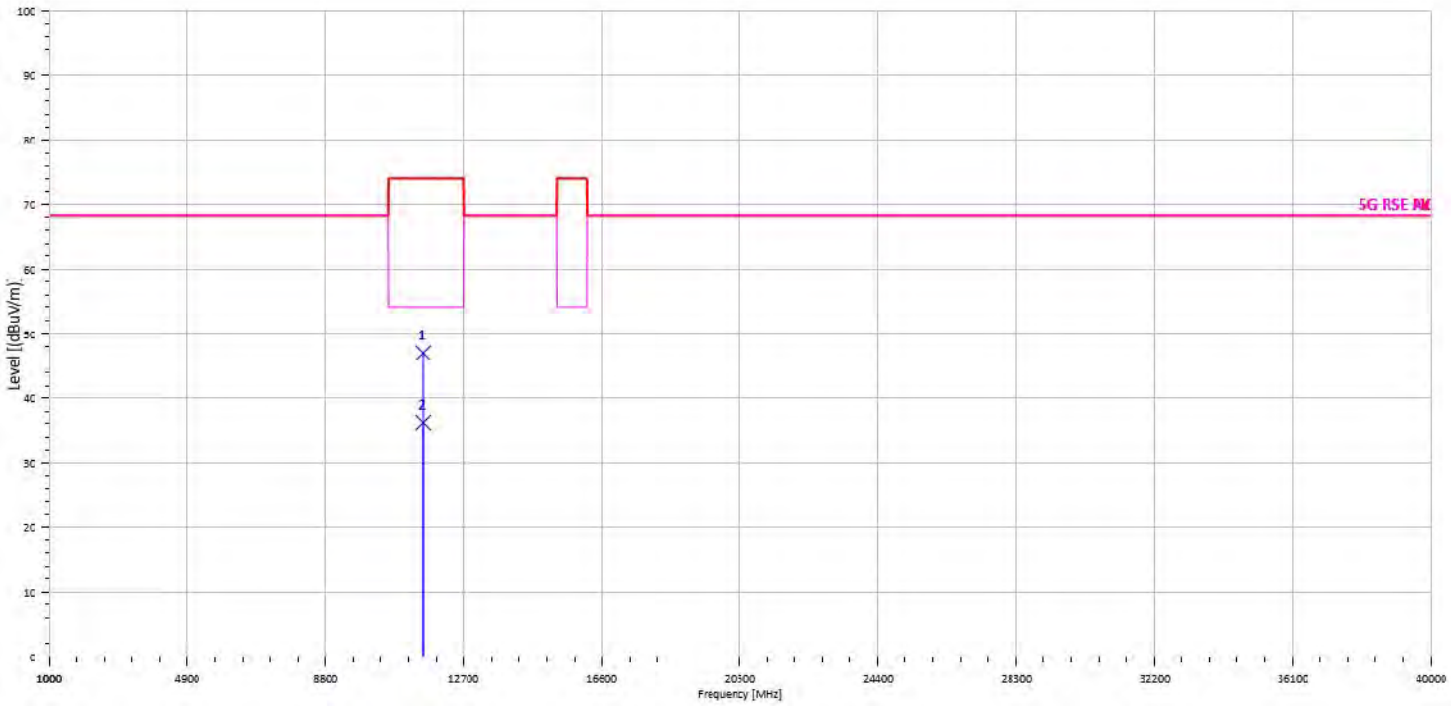
Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	35.97	11.06	47.04	74	-26.96
11570.00	H	Average	25.11	11.06	36.18	54	-17.82

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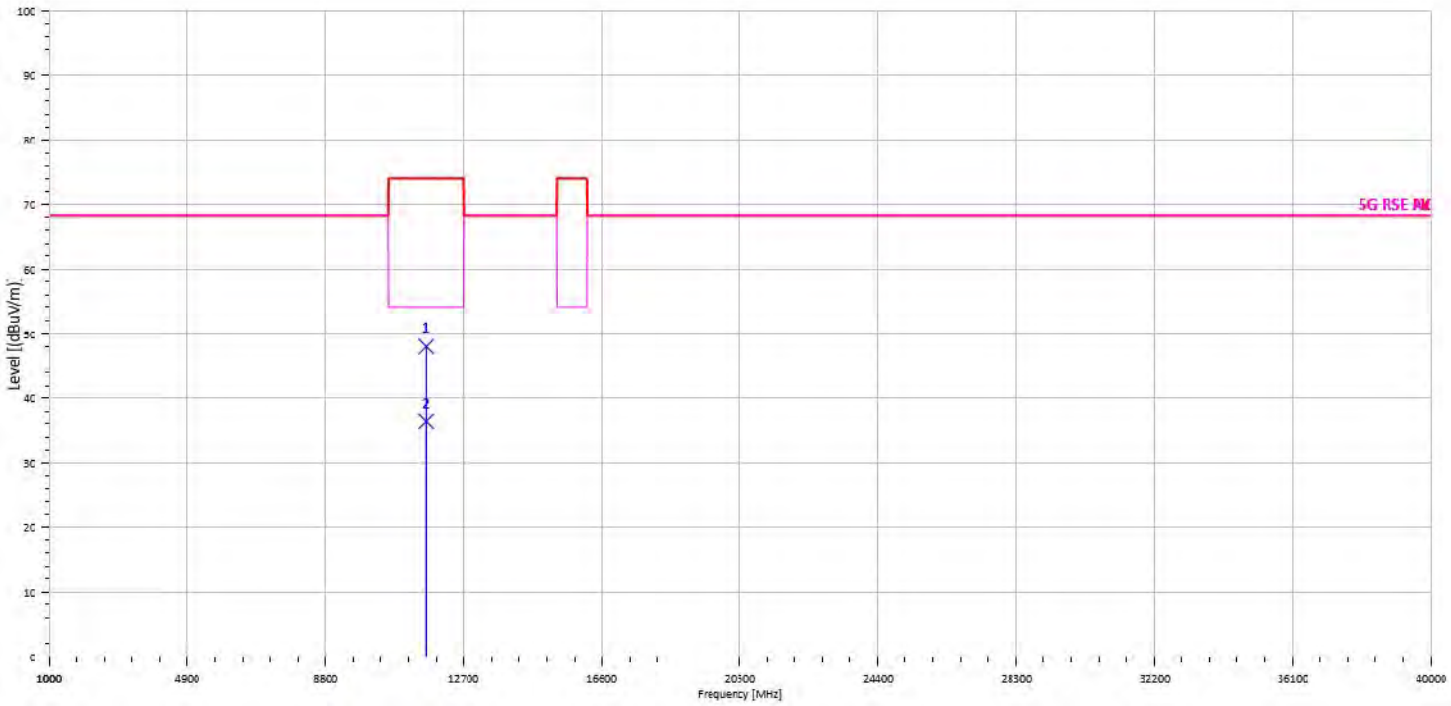
Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	37.35	10.69	48.04	74	-25.96
11650.00	H	Average	25.70	10.69	36.39	54	-17.61

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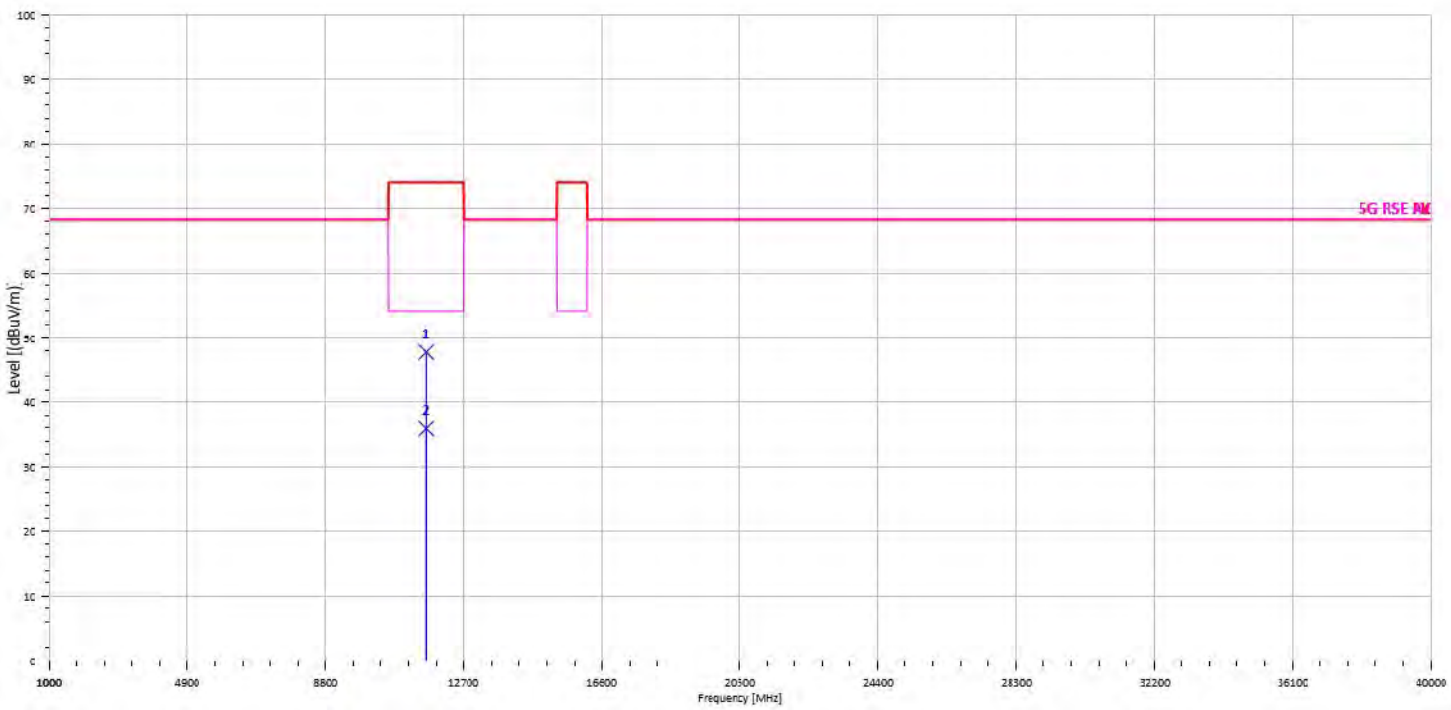
Operation Mode :	802.11n20B4	Test Date :	2018/4/30
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	37.11	10.69	47.80	74	-26.20
11650.00	H	Average	25.23	10.69	35.92	54	-18.08

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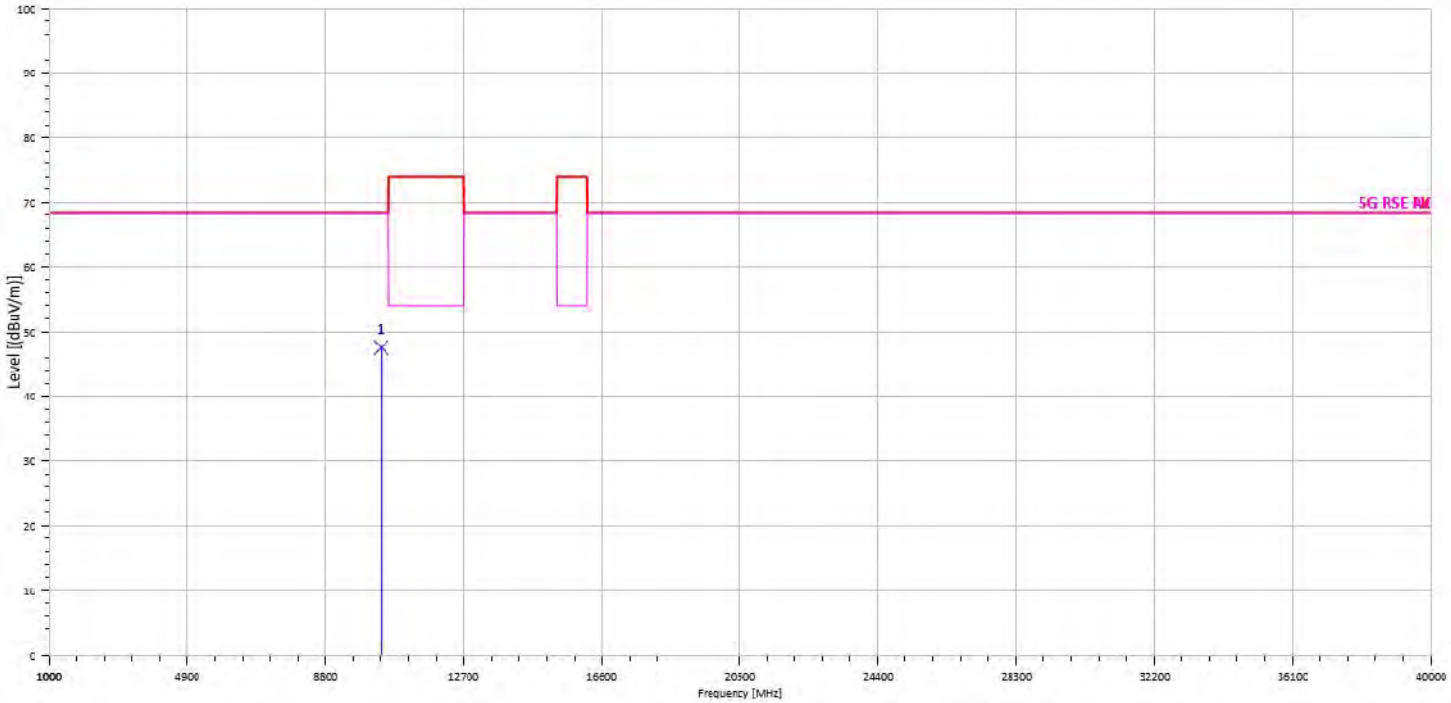
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	38.15	9.38	47.53	68.3	-20.77

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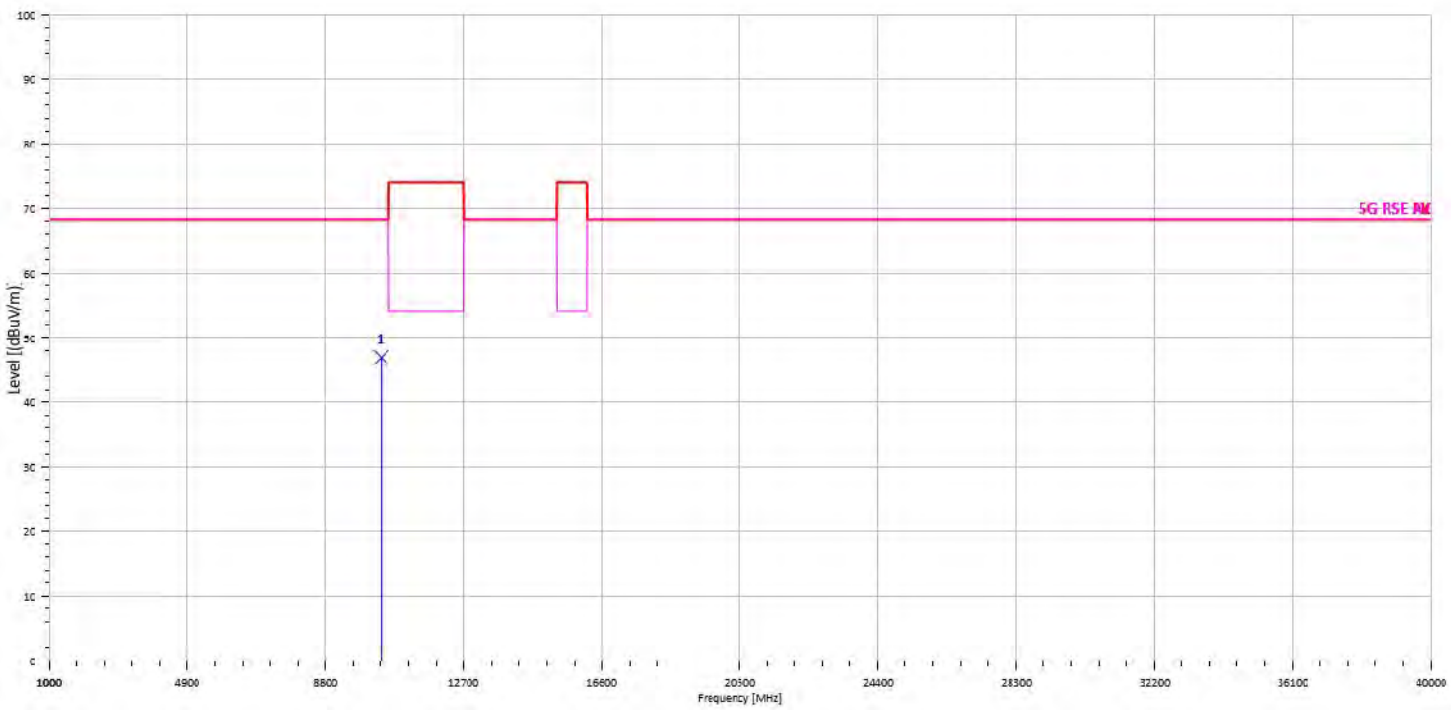
Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	37.56	9.38	46.94	68.3	-21.36

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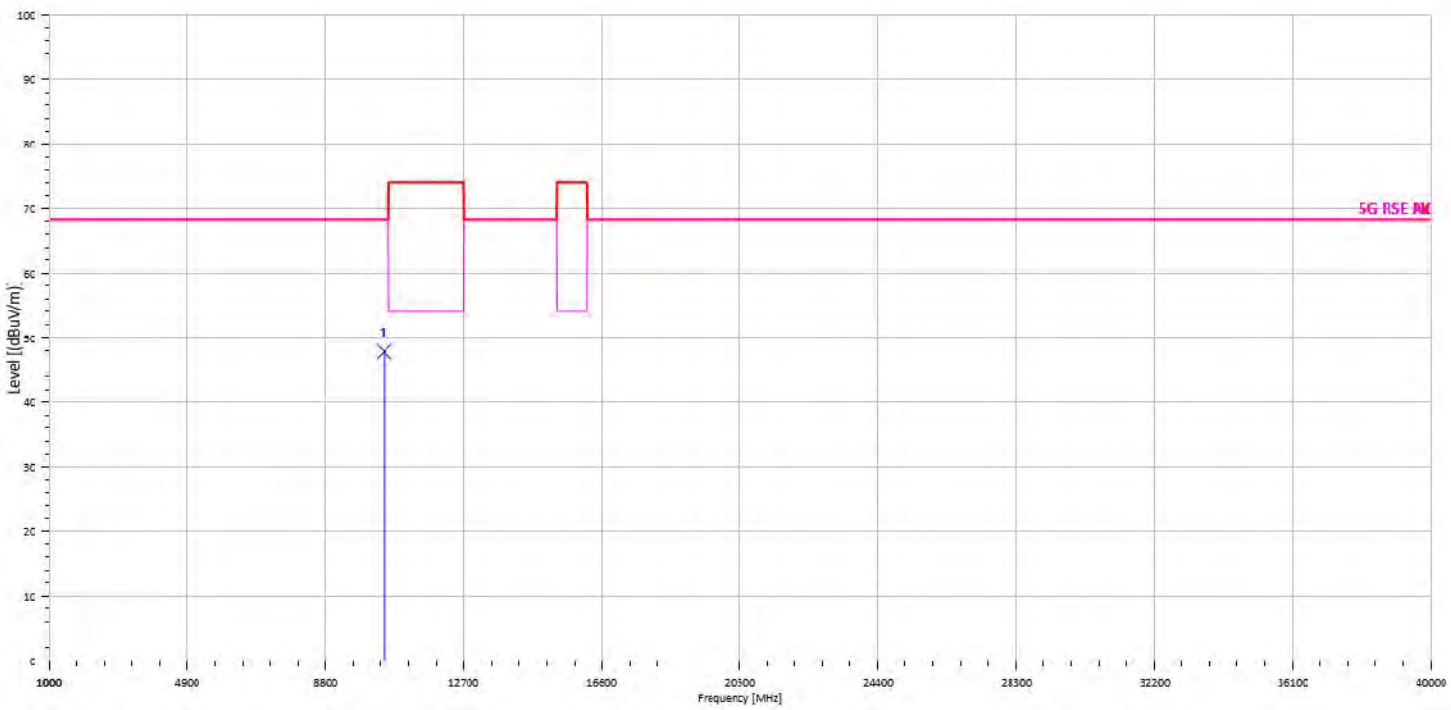
Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	H	Peak	38.25	9.61	47.85	68.3	-20.45

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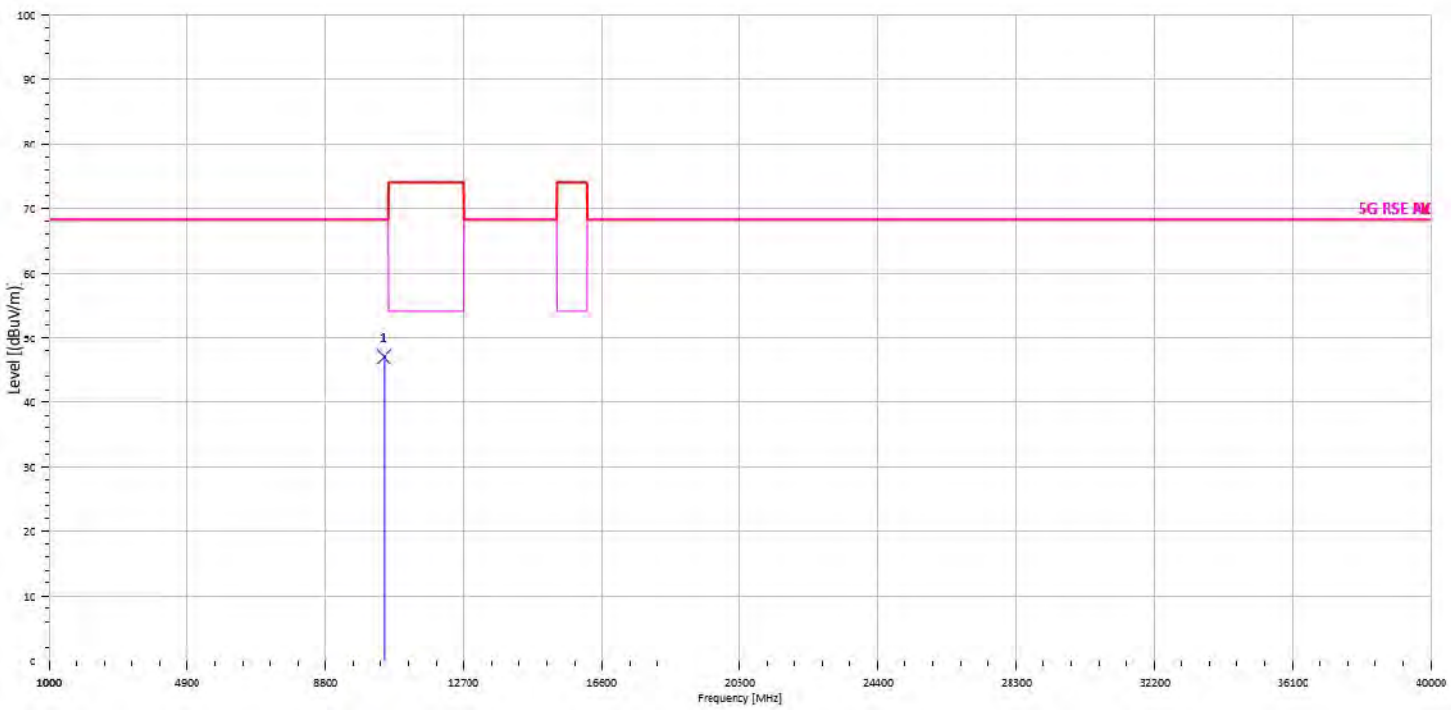
Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	H	Peak	37.48	9.61	47.08	68.3	-21.22

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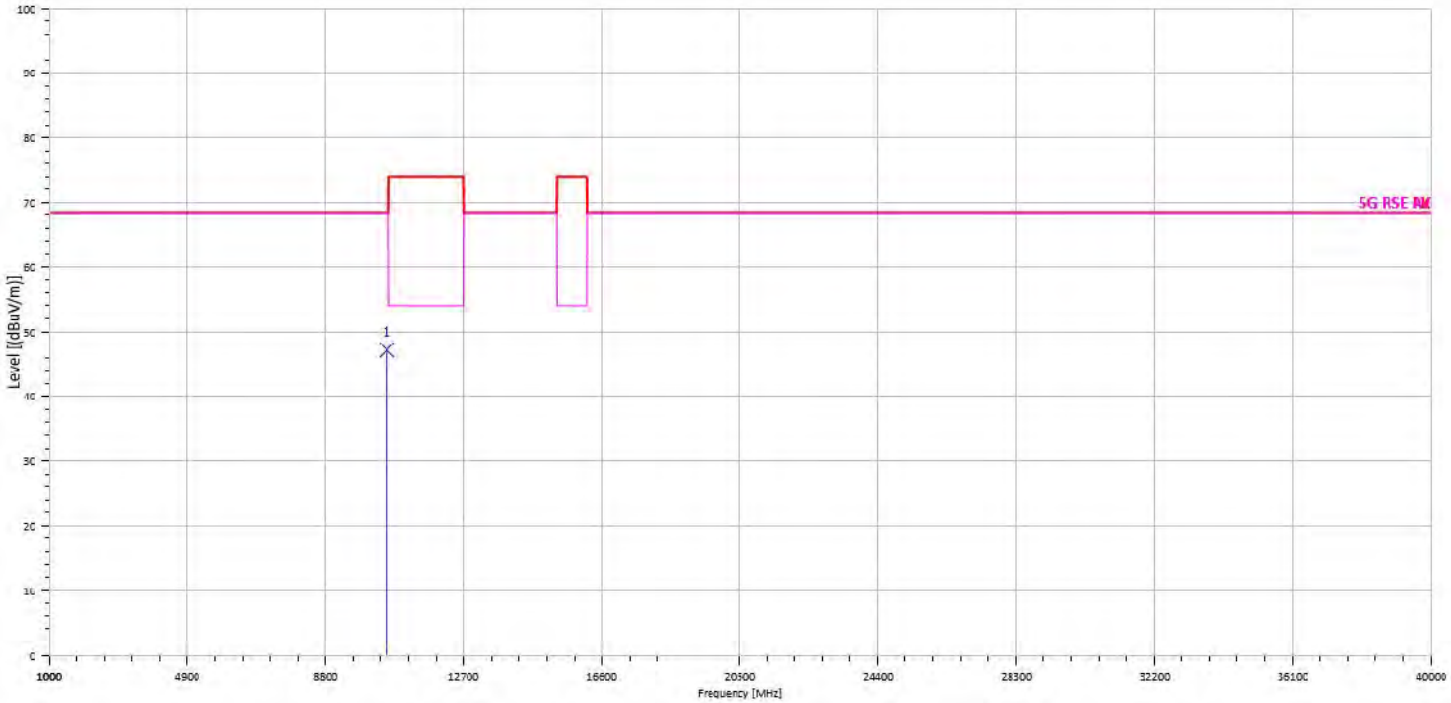
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	37.32	9.87	47.19	68.3	-21.11

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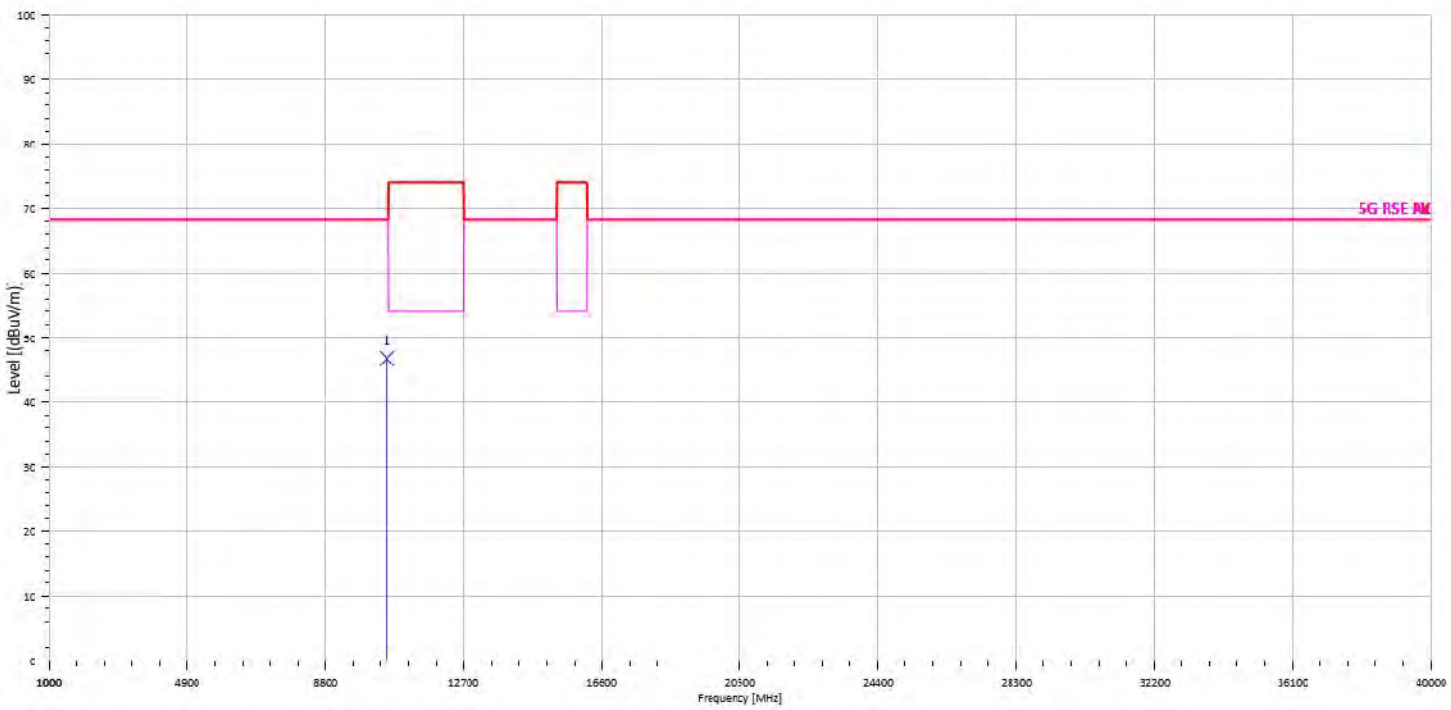
Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	H	Peak	36.93	9.87	46.80	68.3	-21.50

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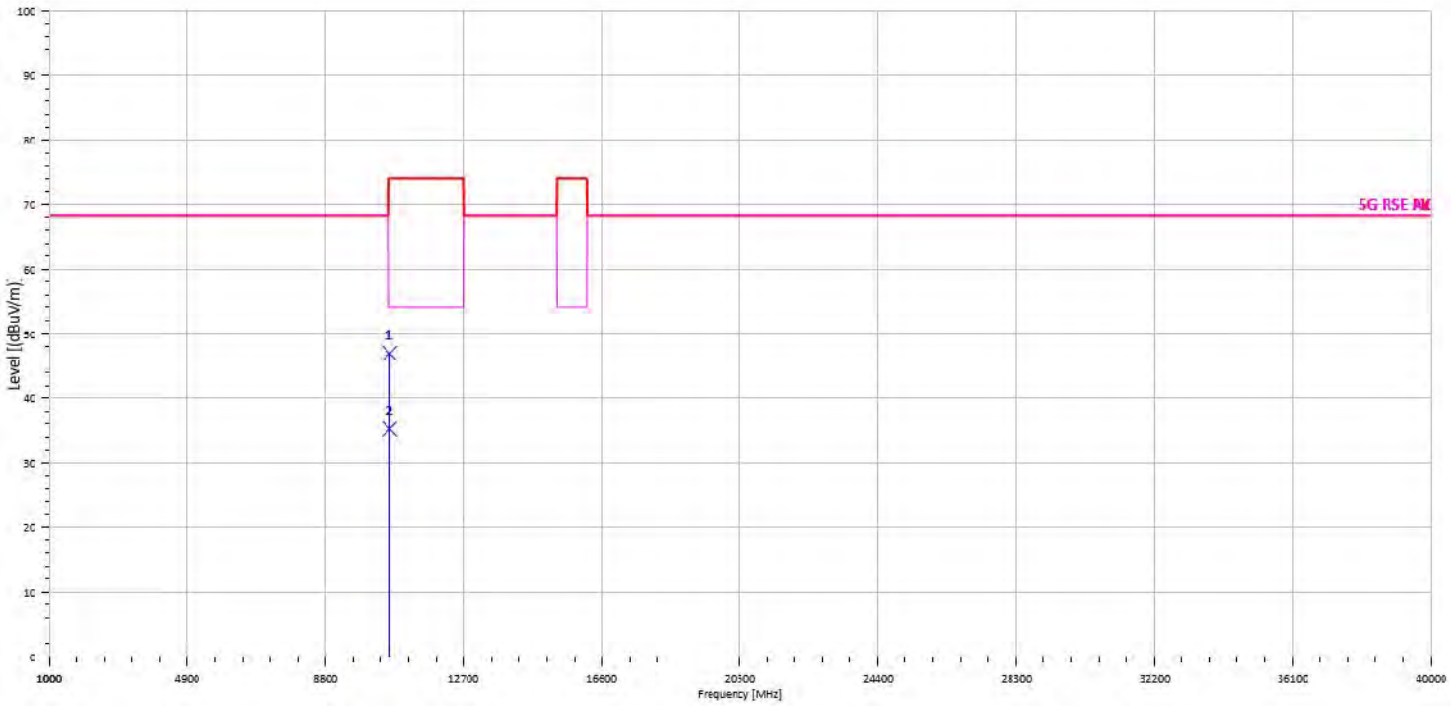
Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	36.84	10.11	46.95	74	-27.05
10620.00	H	Average	25.17	10.11	35.28	54	-18.72

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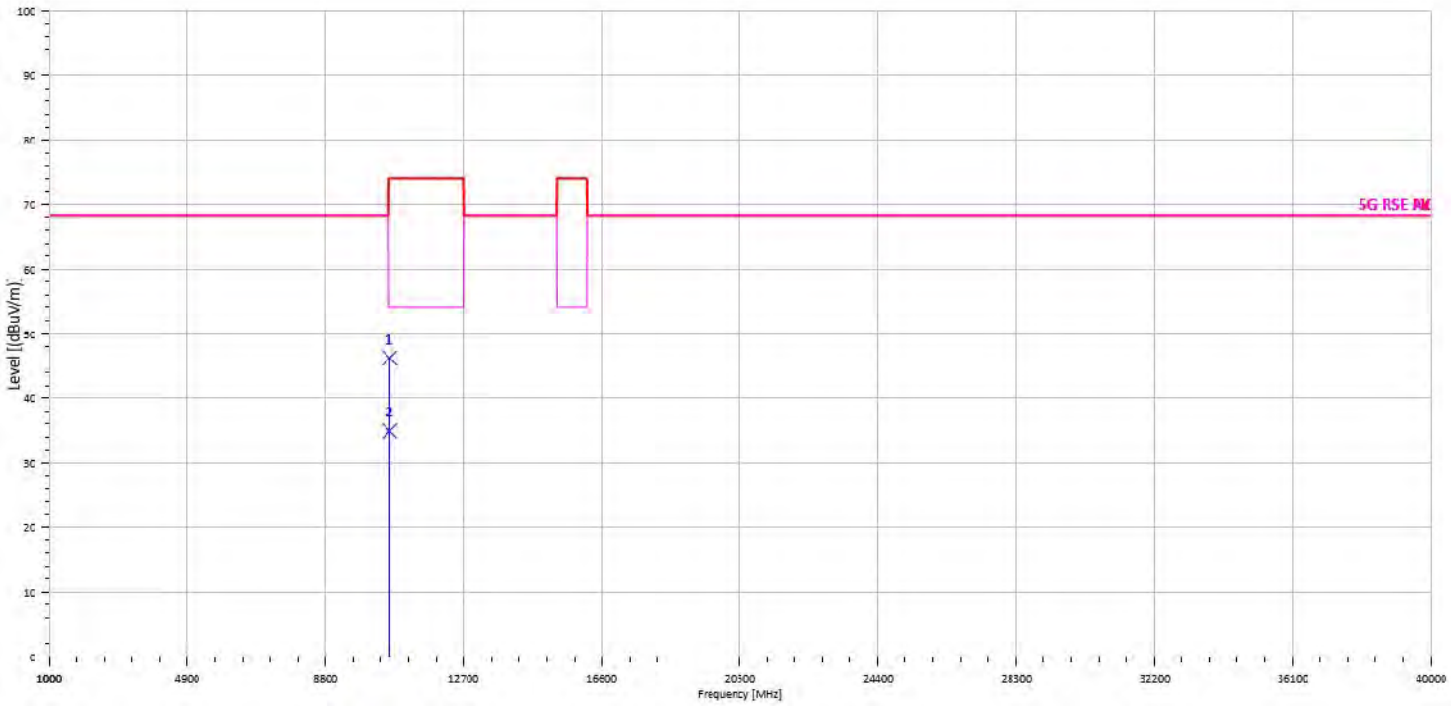
Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	36.13	10.11	46.24	74	-27.76
10620.00	H	Average	24.84	10.11	34.95	54	-19.05

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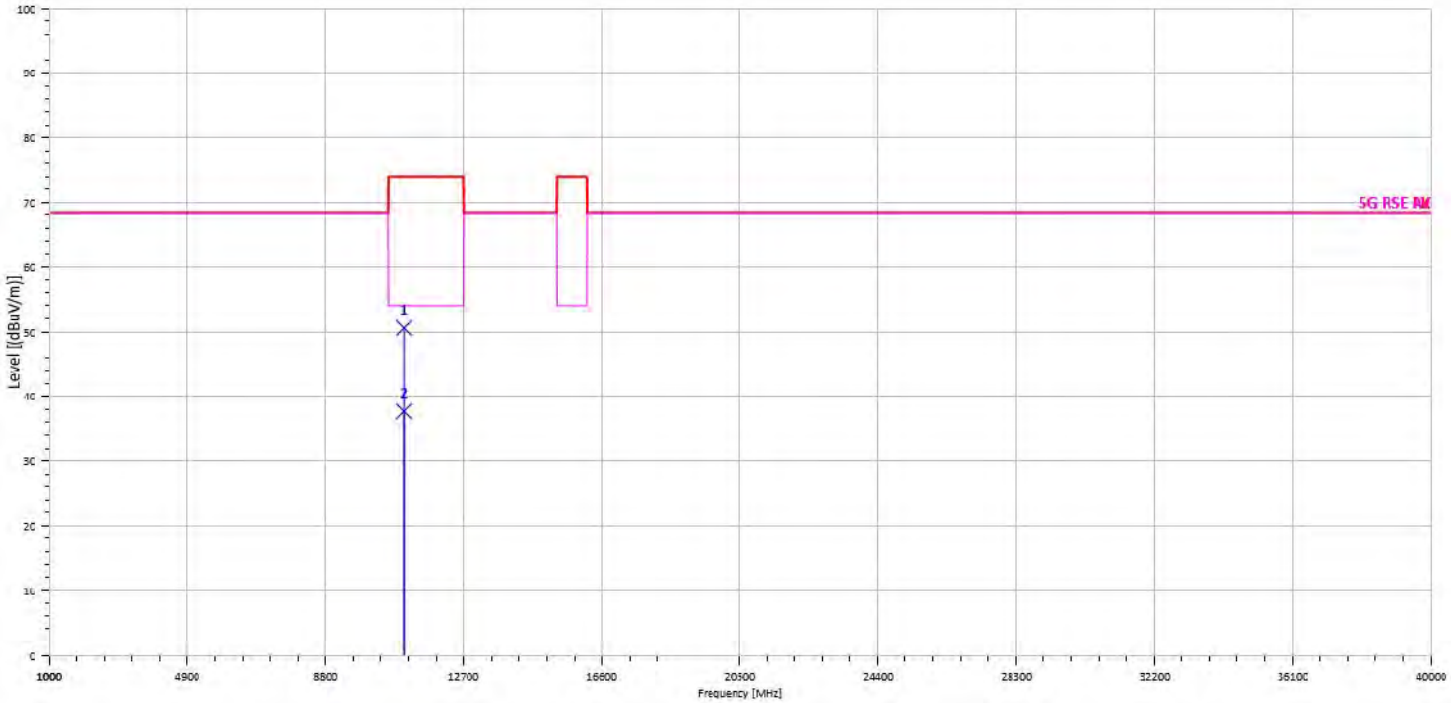
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	38.97	11.60	50.57	74	-23.43
11020.00	H	Average	26.10	11.60	37.70	54	-16.30

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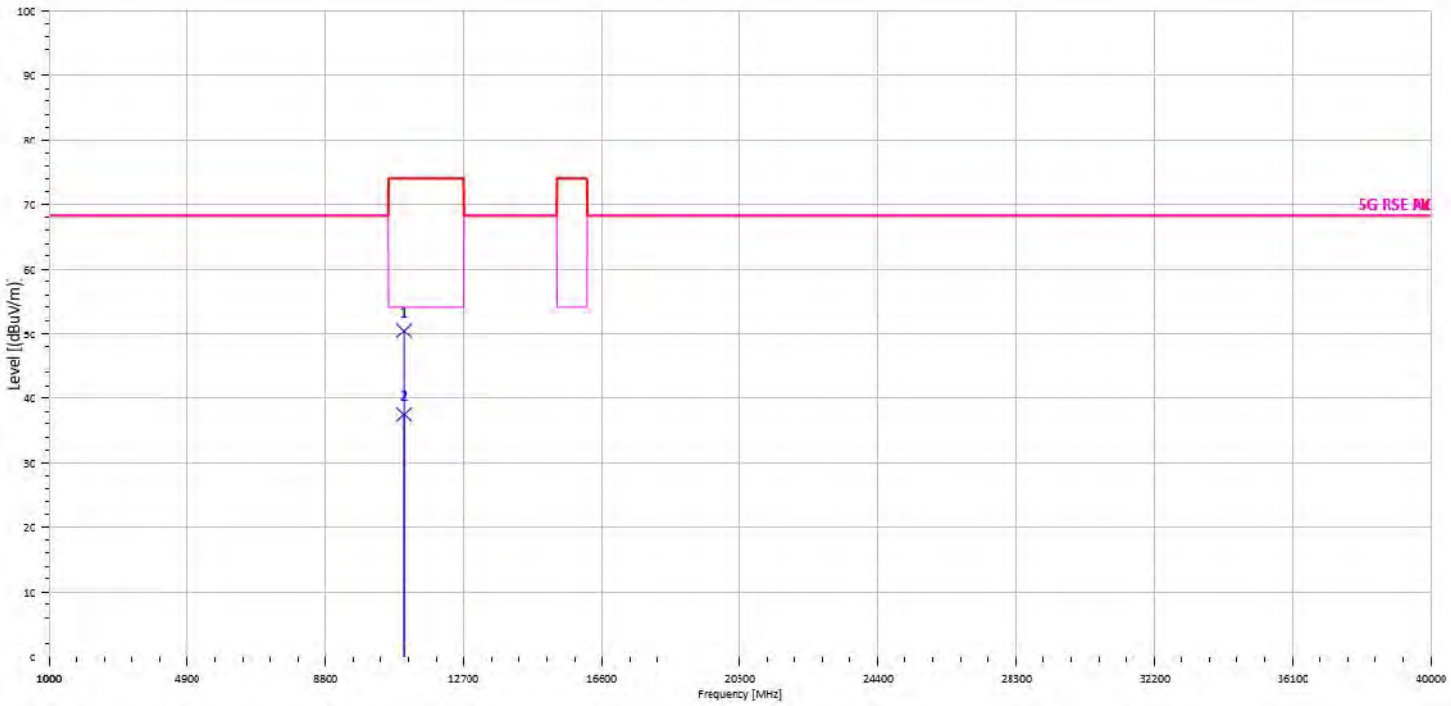
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	38.87	11.60	50.46	74	-23.54
11020.00	H	Average	25.89	11.60	37.49	54	-16.51

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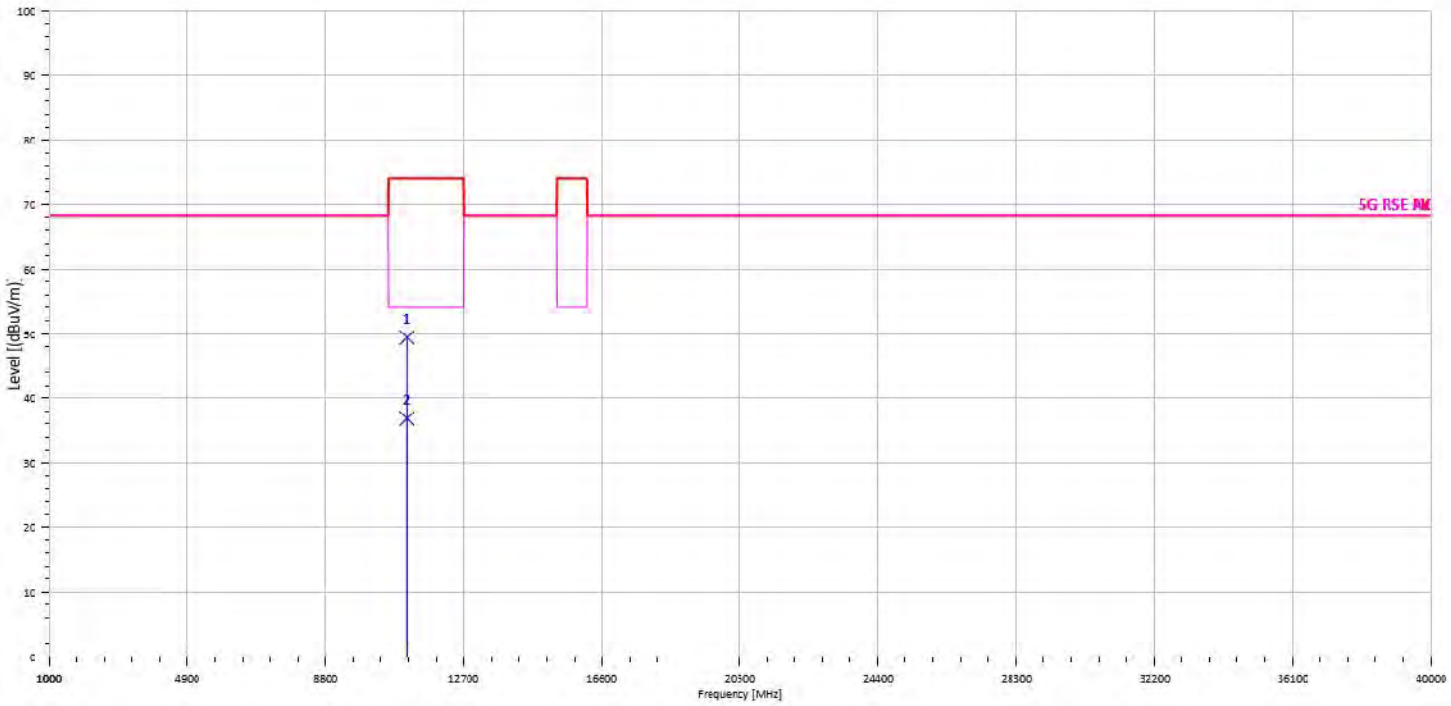
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	38.27	11.15	49.42	74	-24.58
11100.00	H	Average	25.71	11.15	36.86	54	-17.14

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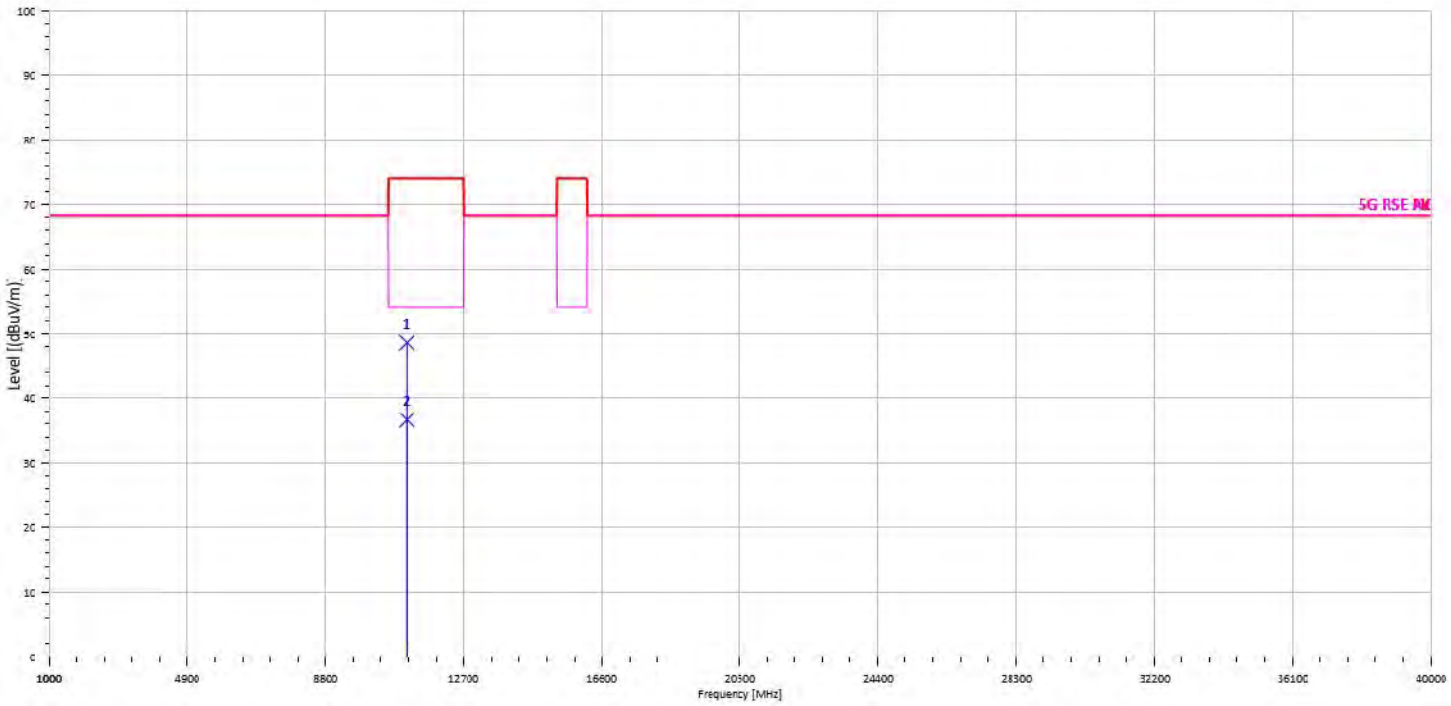
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	37.44	11.15	48.59	74	-25.41
11100.00	H	Average	25.50	11.15	36.65	54	-17.35

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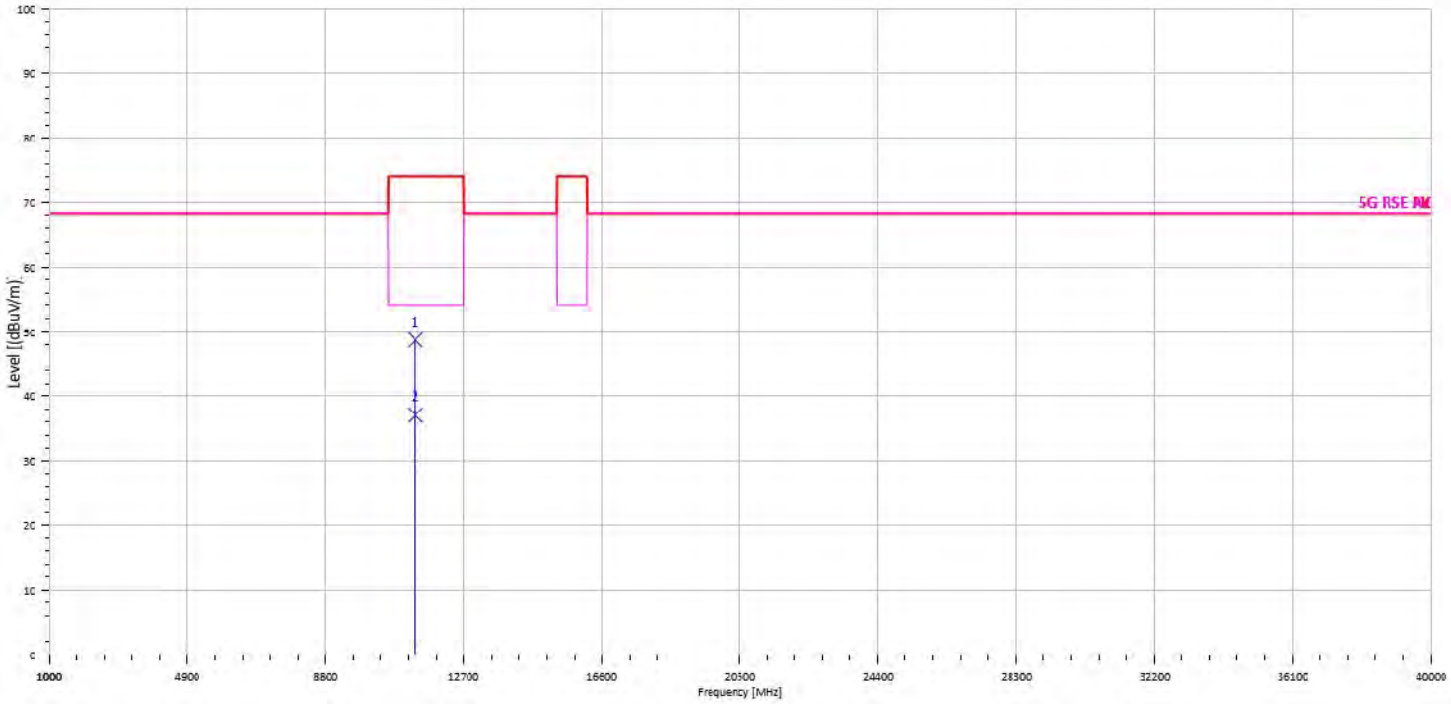
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	37.36	11.37	48.73	74	-25.27
11340.00	H	Average	25.71	11.37	37.09	54	-16.92

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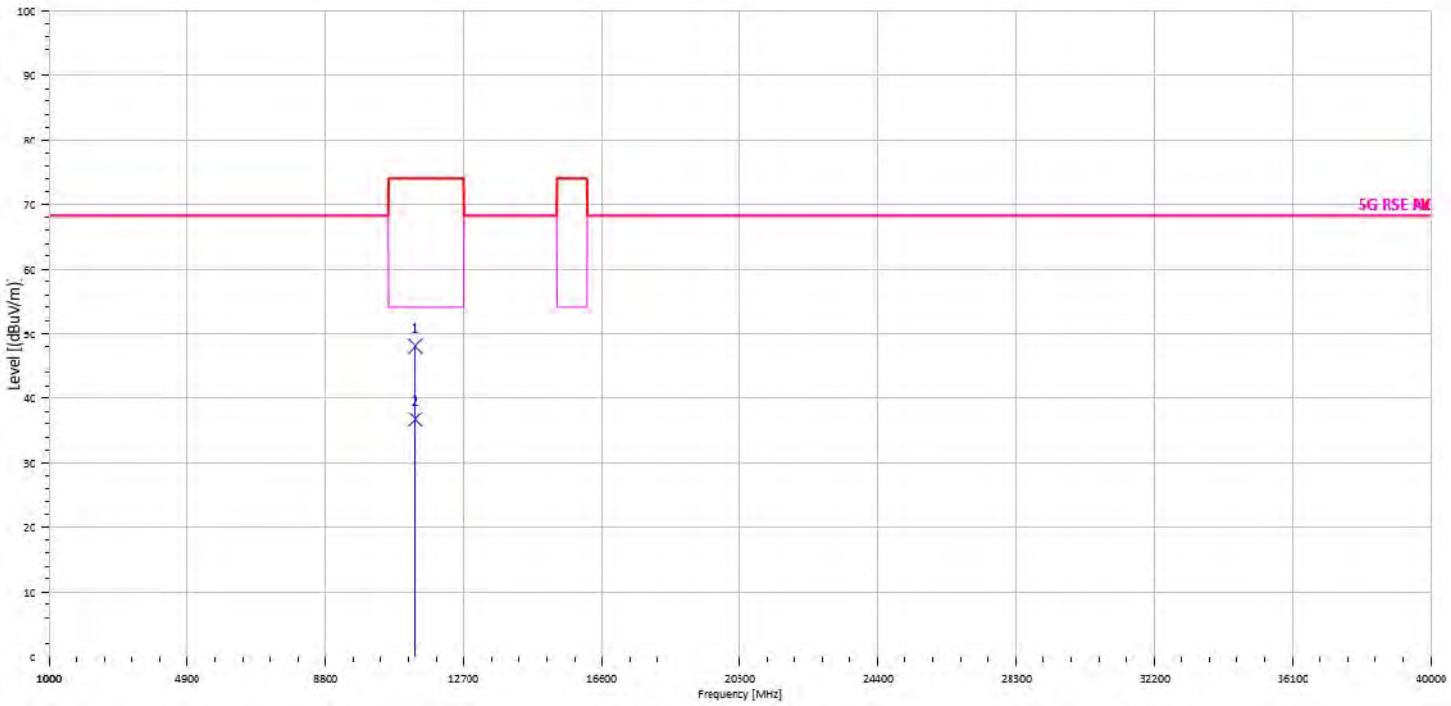
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	36.69	11.37	48.06	74	-25.94
11340.00	H	Average	25.36	11.37	36.73	54	-17.27

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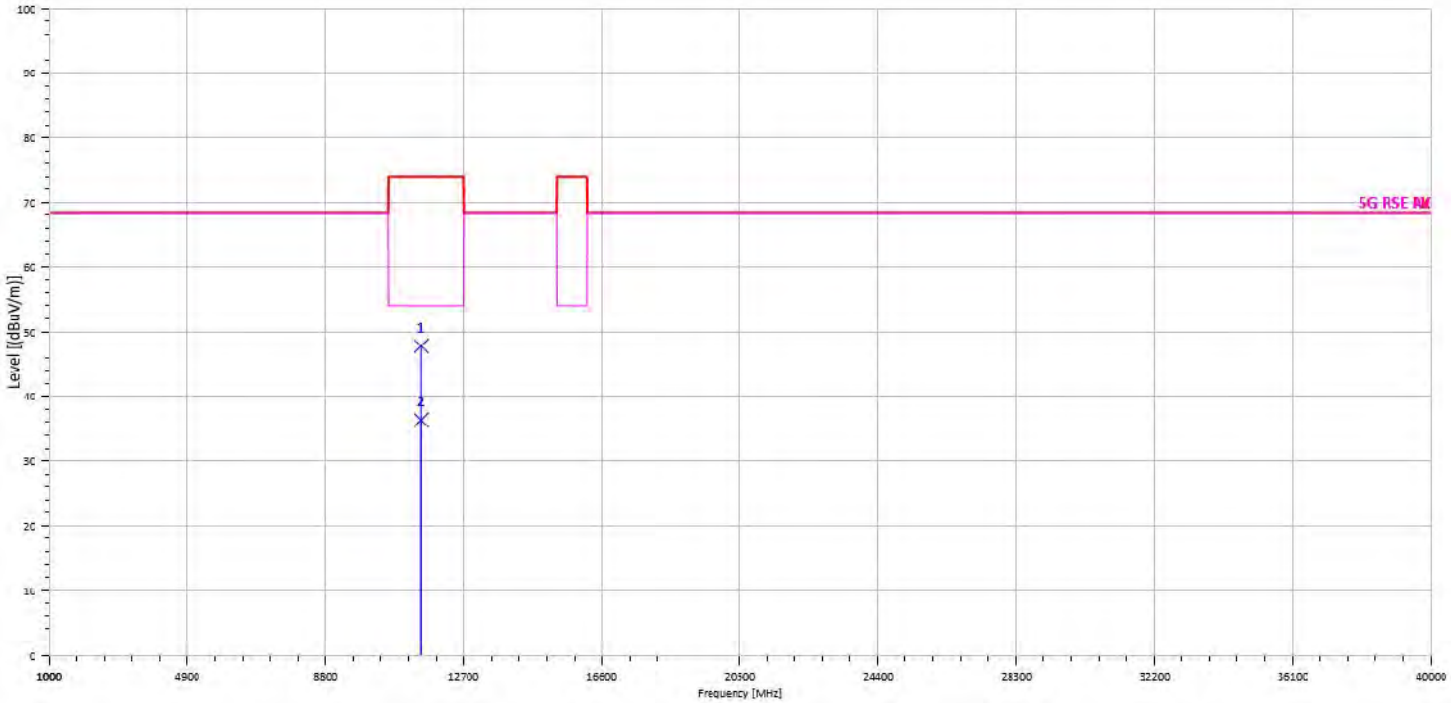
Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	36.66	11.12	47.78	74	-26.22
11510.00	H	Average	25.23	11.12	36.35	54	-17.65

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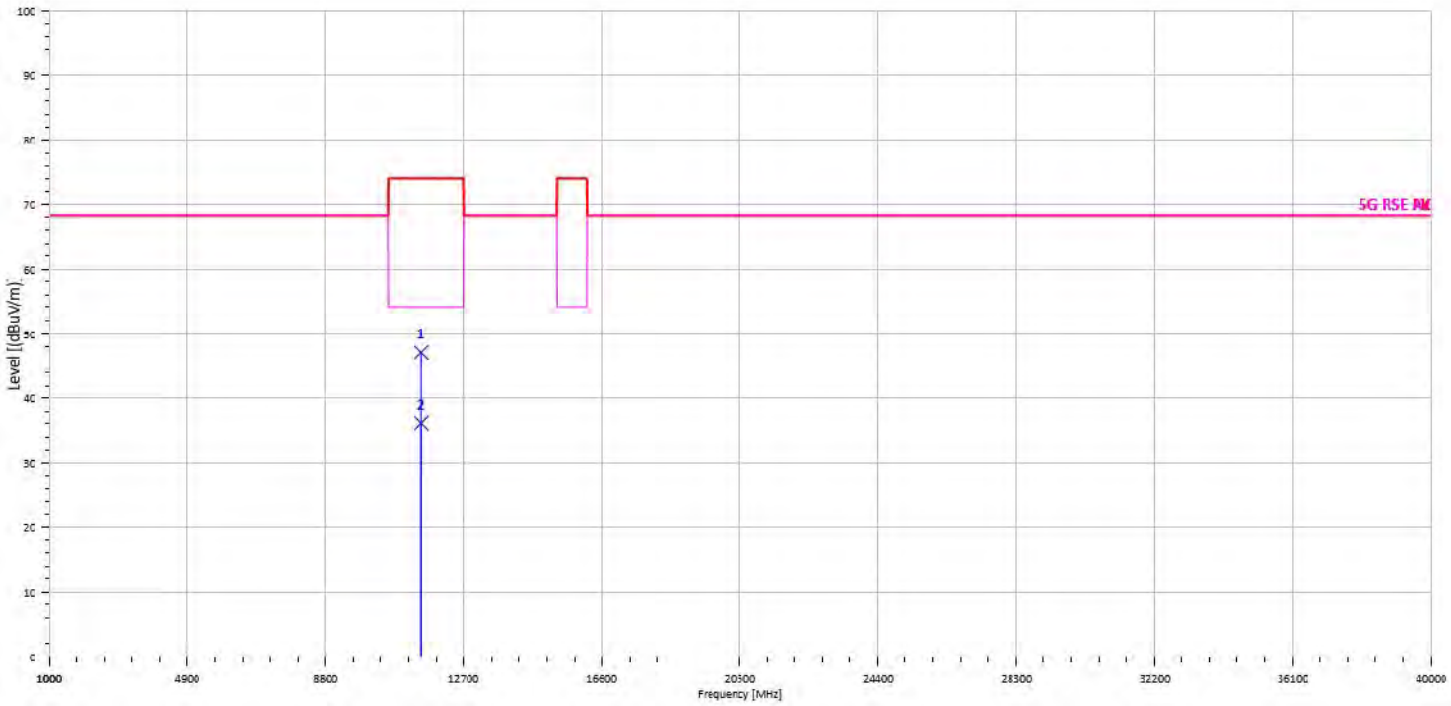
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	36.01	11.12	47.13	74	-26.87
11510.00	H	Average	24.99	11.12	36.11	54	-17.89

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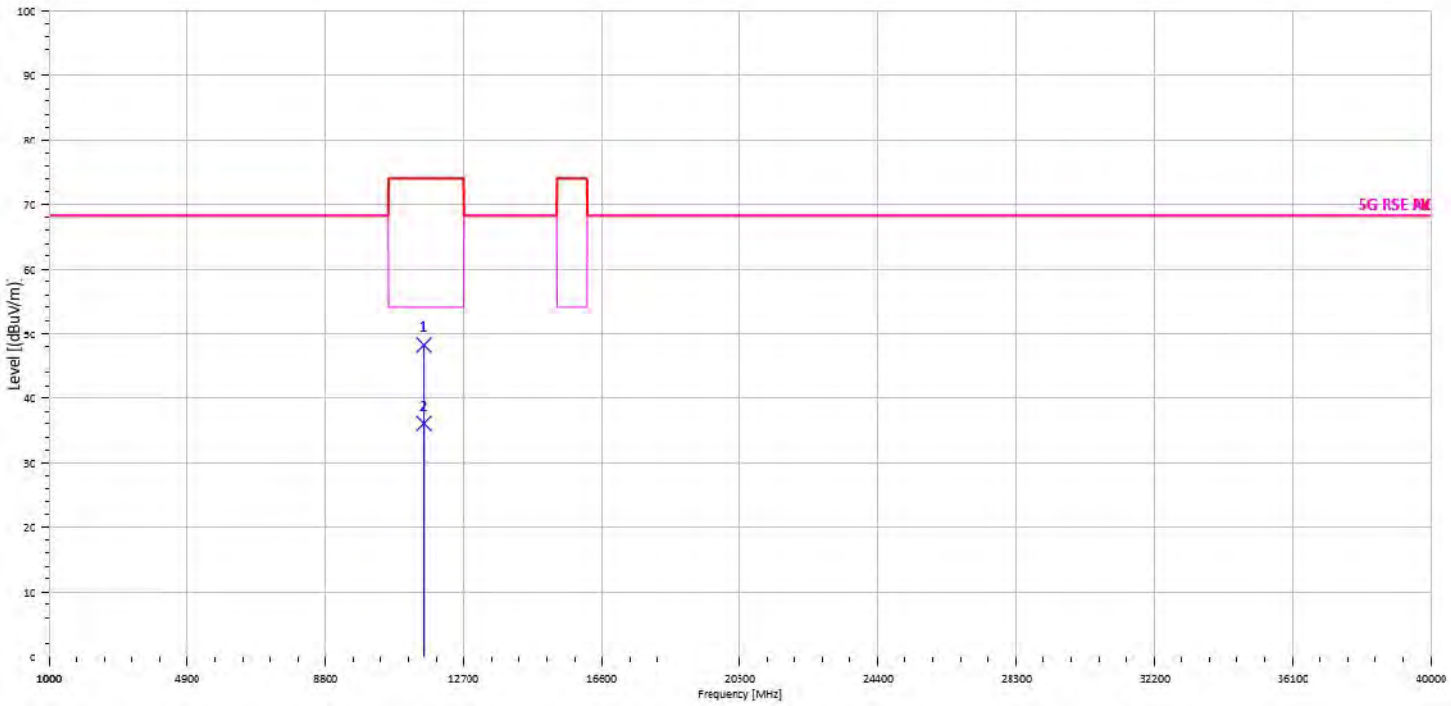
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	37.19	11.05	48.24	74	-25.76
11590.00	H	Average	25.02	11.05	36.07	54	-17.93

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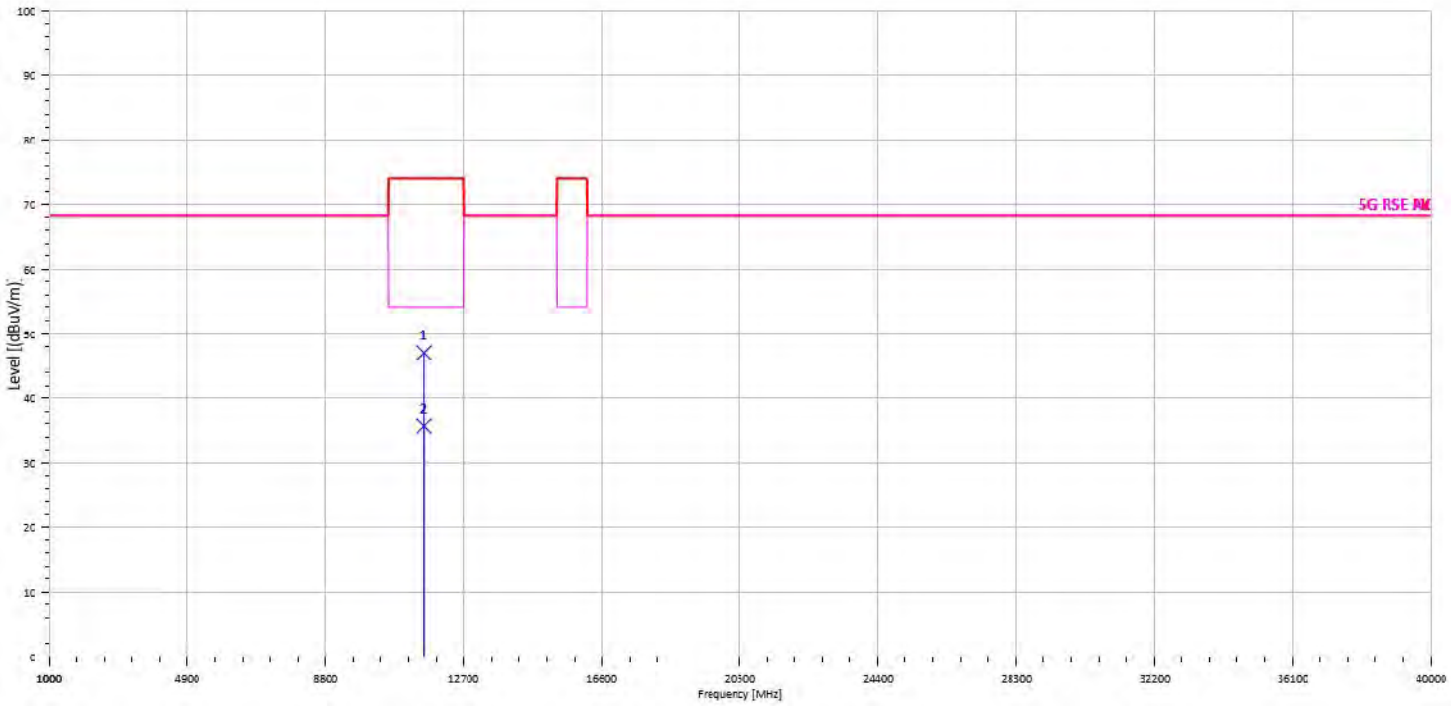
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	36.01	11.05	47.06	74	-26.94
11590.00	H	Average	24.64	11.05	35.68	54	-18.32

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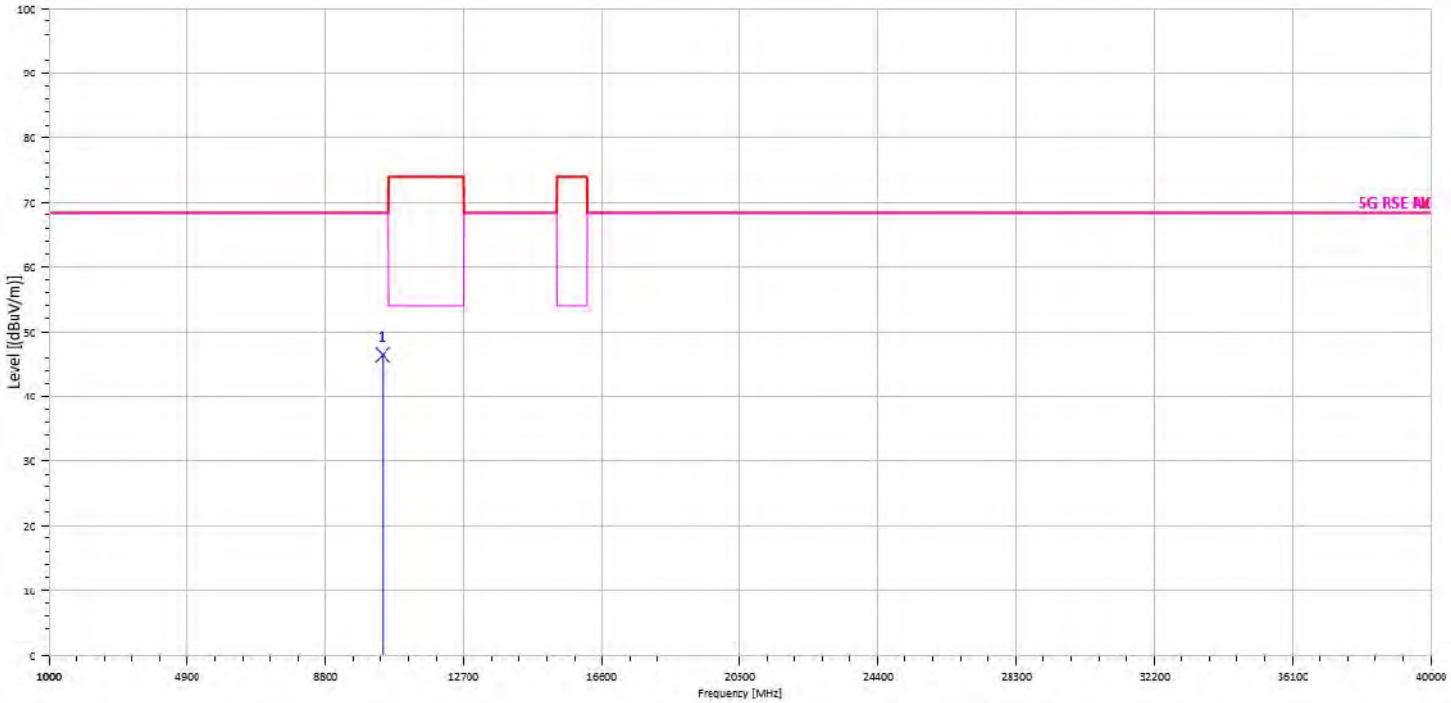
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2018/4/30
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	36.87	9.53	46.40	68.3	-21.90

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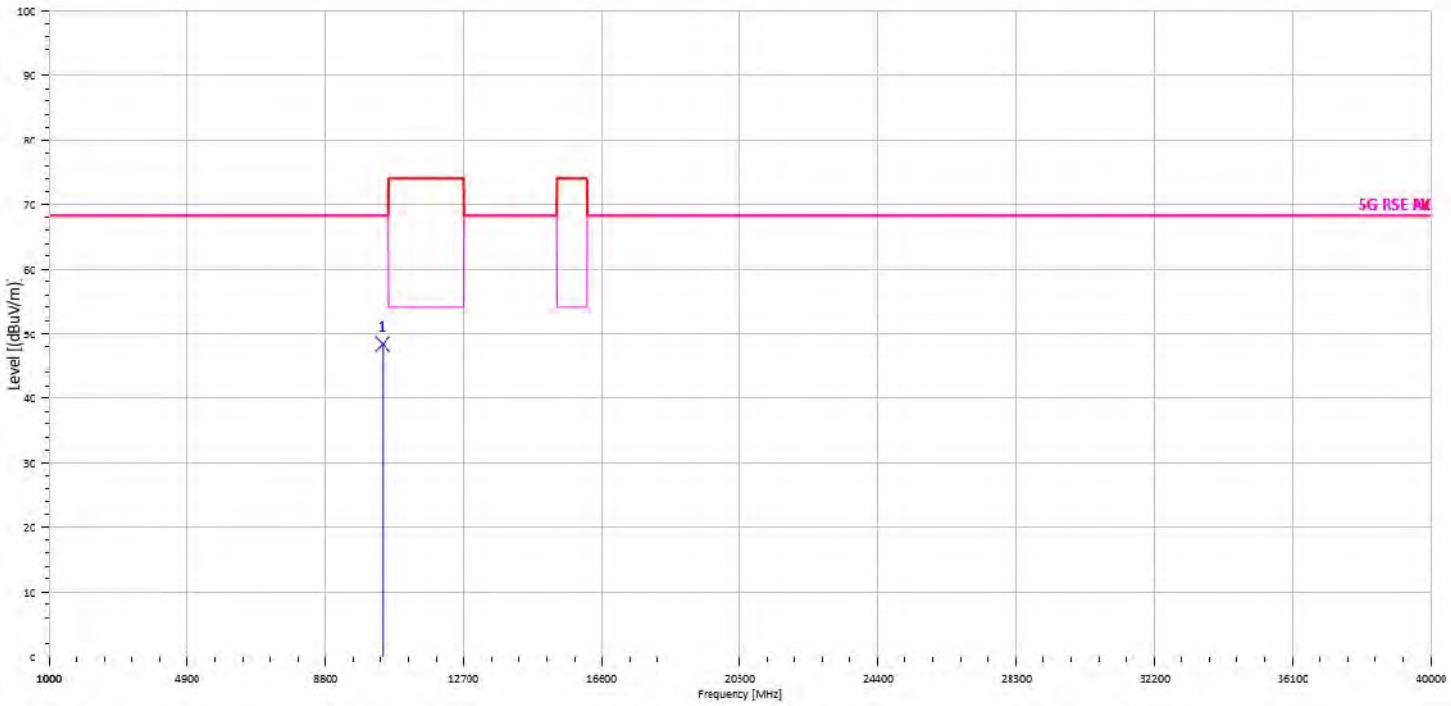
Operation Mode :	802.11ac80B1	Test Date :	2018/4/30
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	H	Peak	38.85	9.53	48.38	68.3	-19.92

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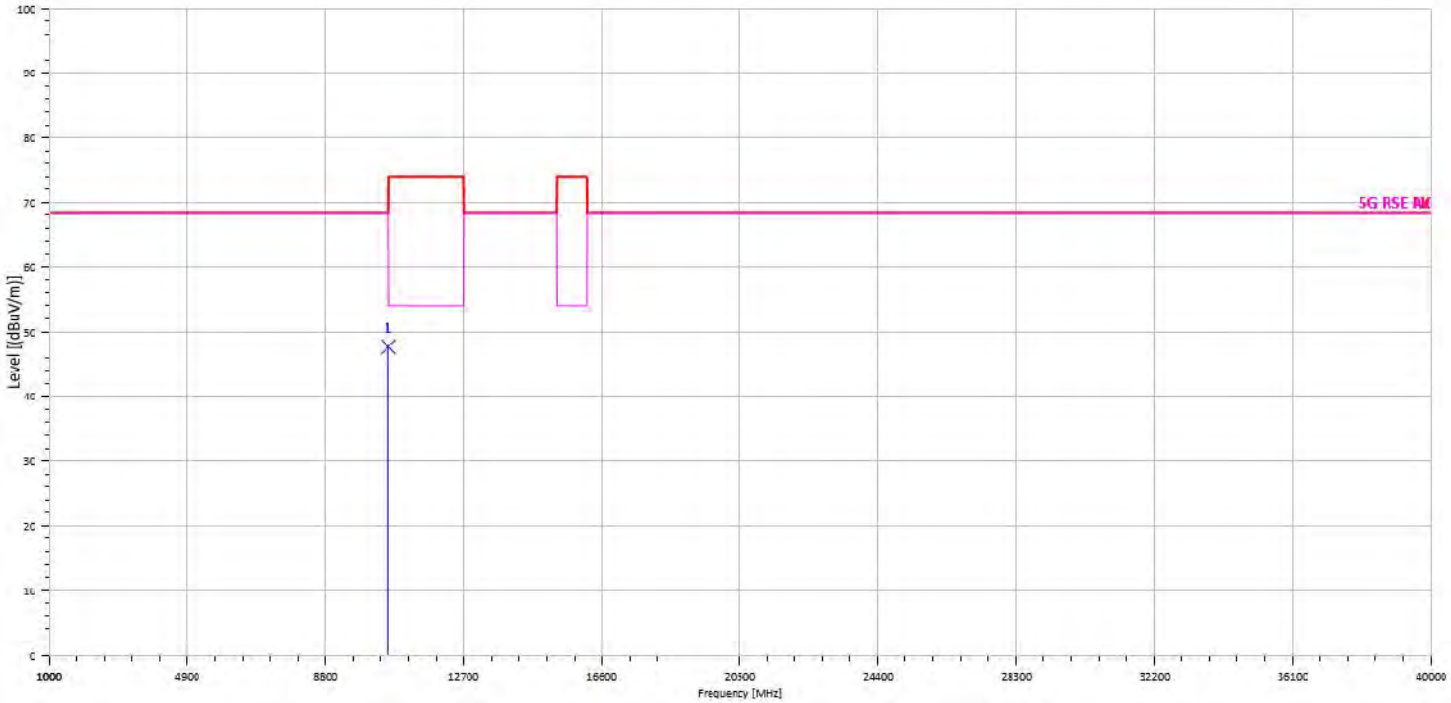
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2018/4/30
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	37.61	10.05	47.66	68.3	-20.64

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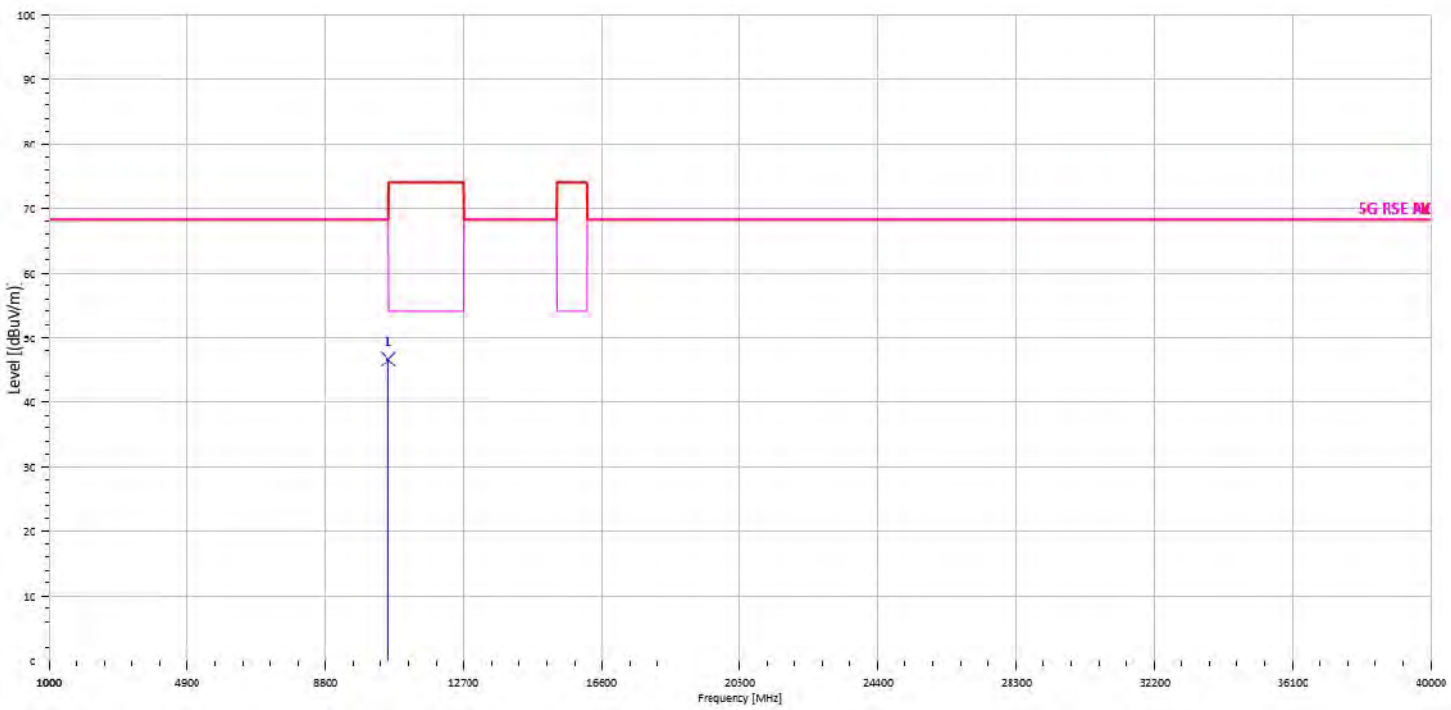
Operation Mode :	802.11ac80B2	Test Date :	2018/4/30
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	H	Peak	36.61	10.05	46.66	68.3	-21.64

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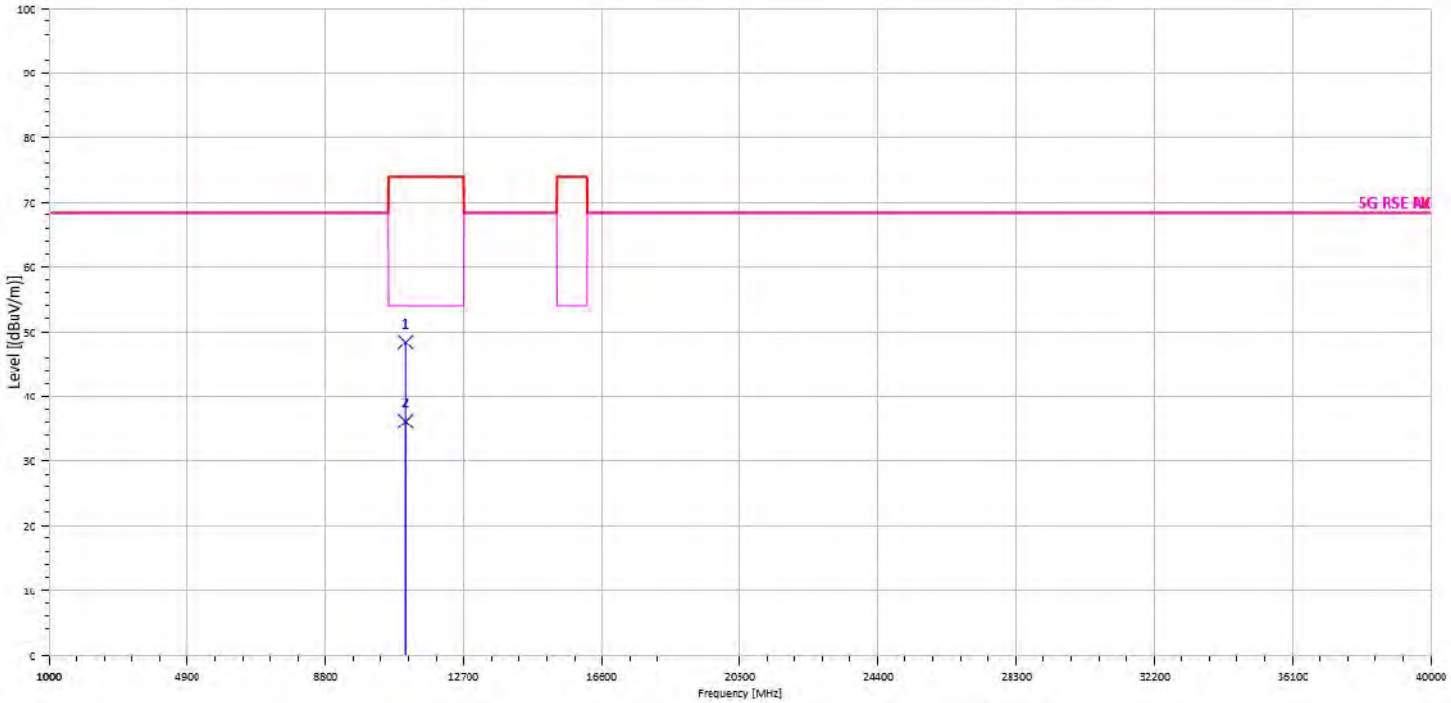
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	37.01	11.37	48.39	74	-25.61
11060.00	H	Average	24.78	11.37	36.15	54	-17.85

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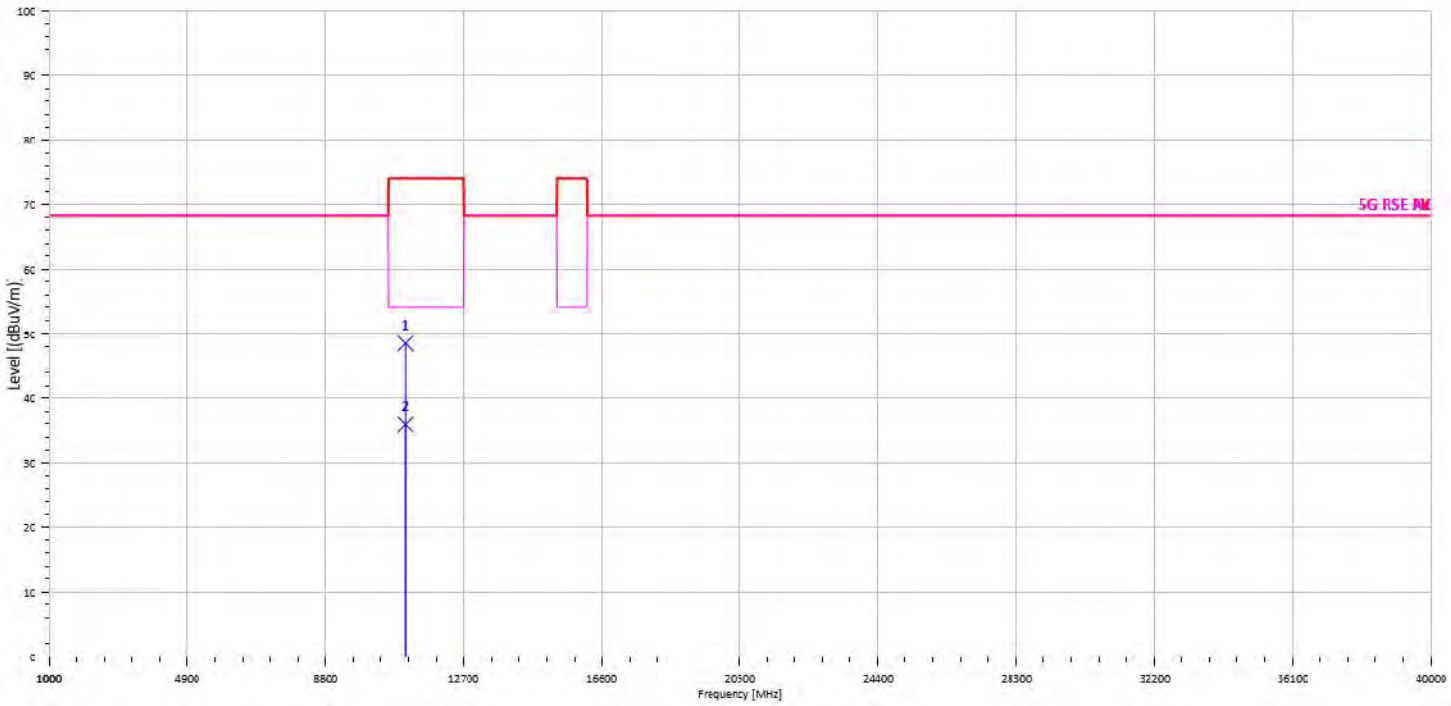
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	37.15	11.37	48.52	74	-25.48
11060.00	H	Average	24.56	11.37	35.94	54	-18.07

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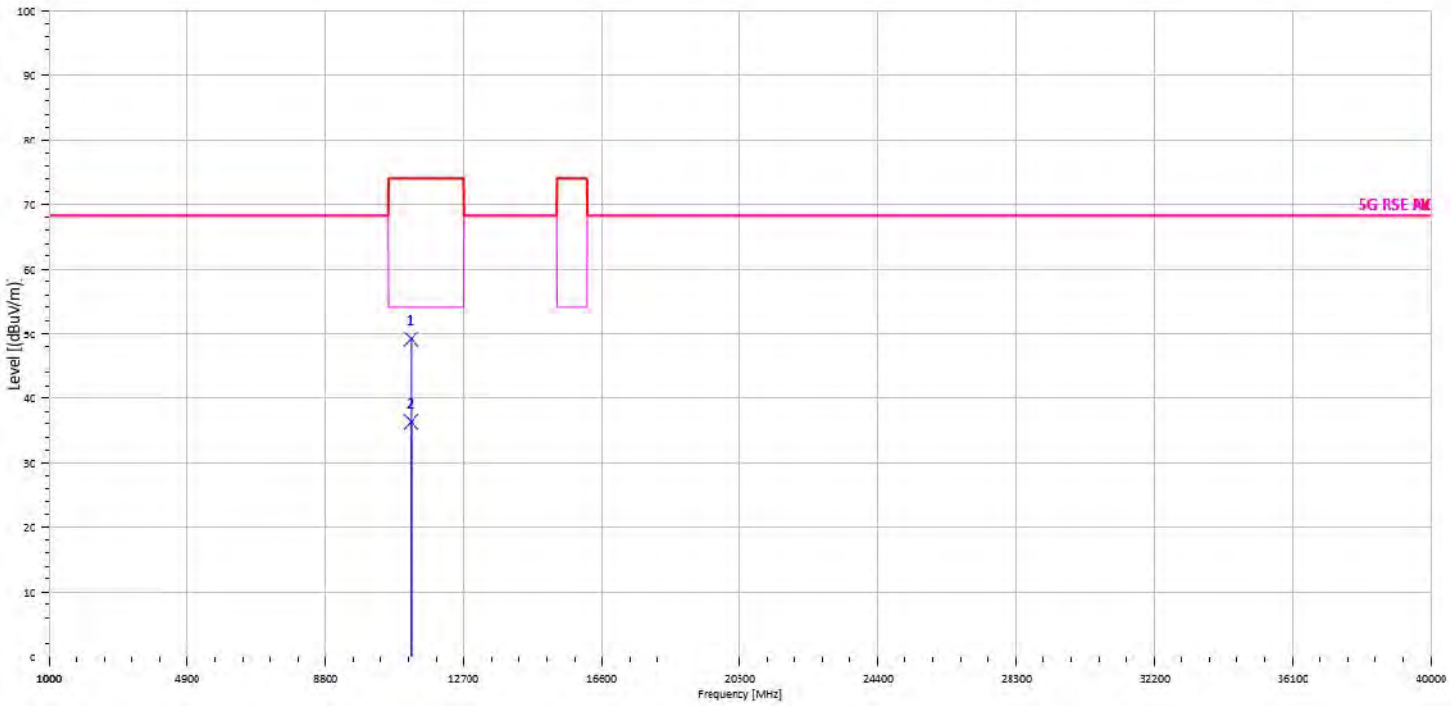
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	37.51	11.64	49.15	74	-24.85
11220.00	H	Average	24.66	11.64	36.31	54	-17.69

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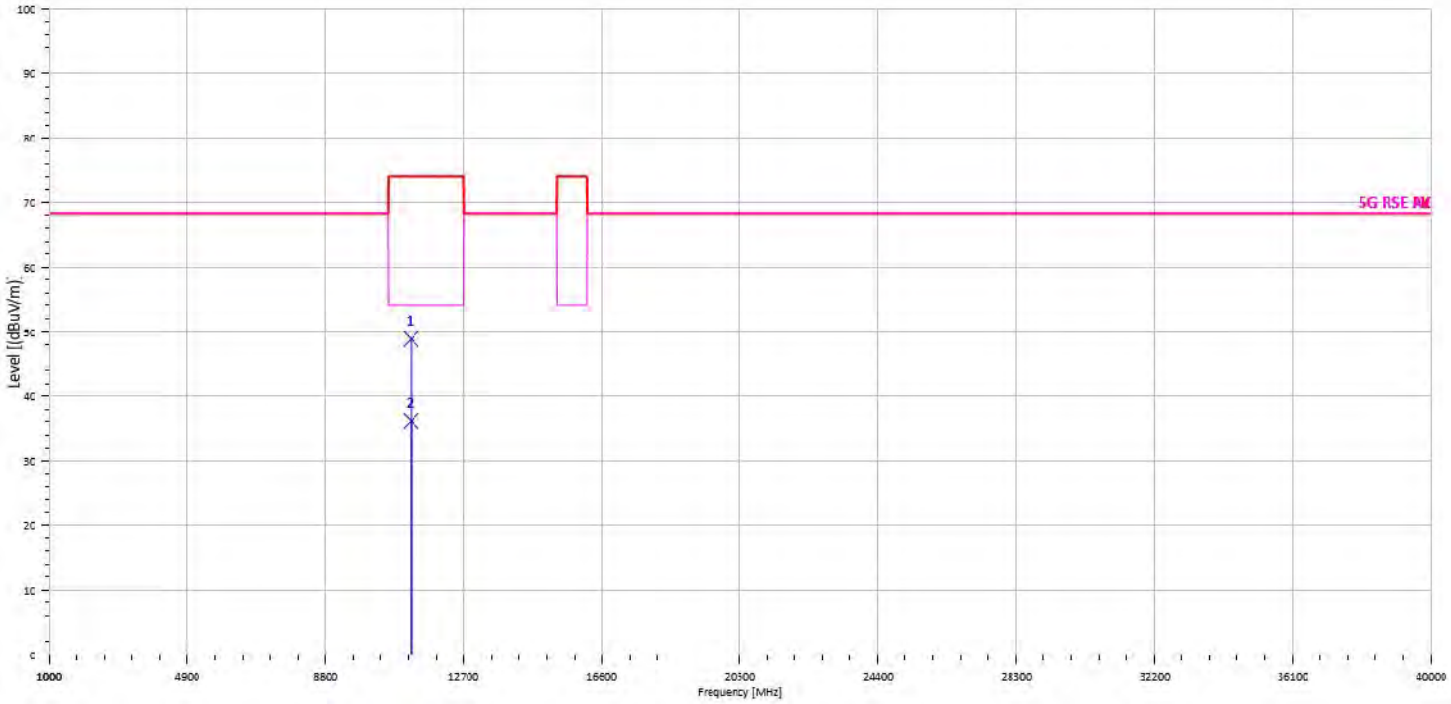
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	37.23	11.64	48.87	74	-25.13
11220.00	H	Average	24.50	11.64	36.15	54	-17.85

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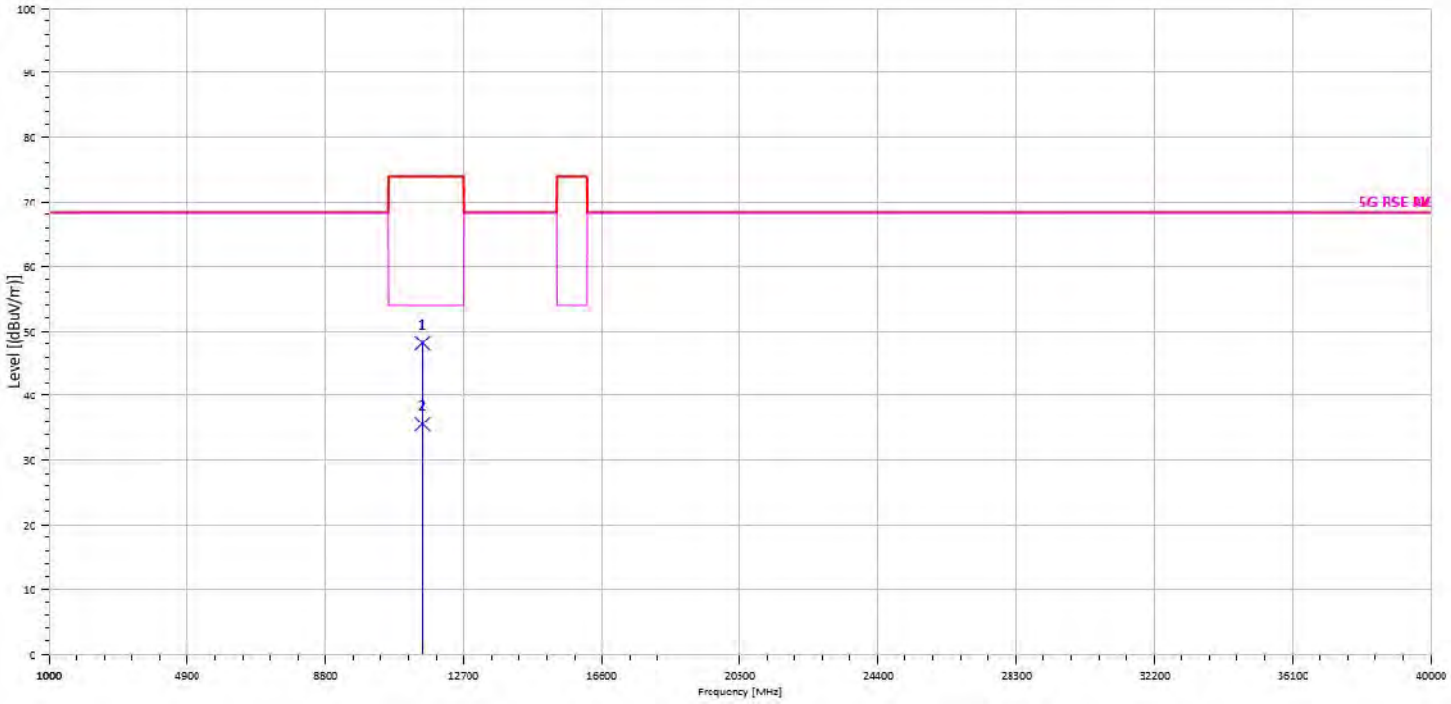
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	H	Peak	37.06	11.08	48.14	74	-25.86
11550.00	H	Average	24.52	11.08	35.60	54	-18.40

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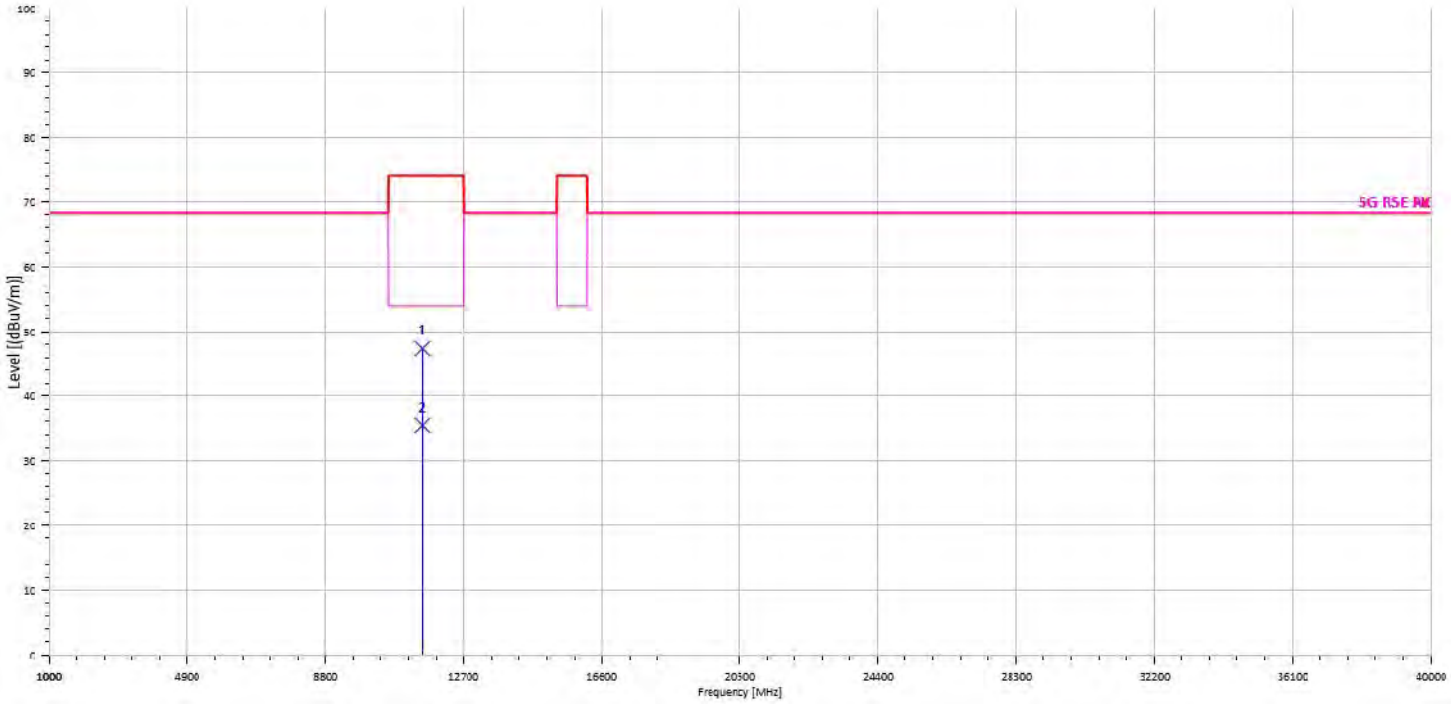
Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	H	Peak	36.26	11.08	47.35	74	-26.65
11550.00	H	Average	24.35	11.08	35.44	54	-18.57

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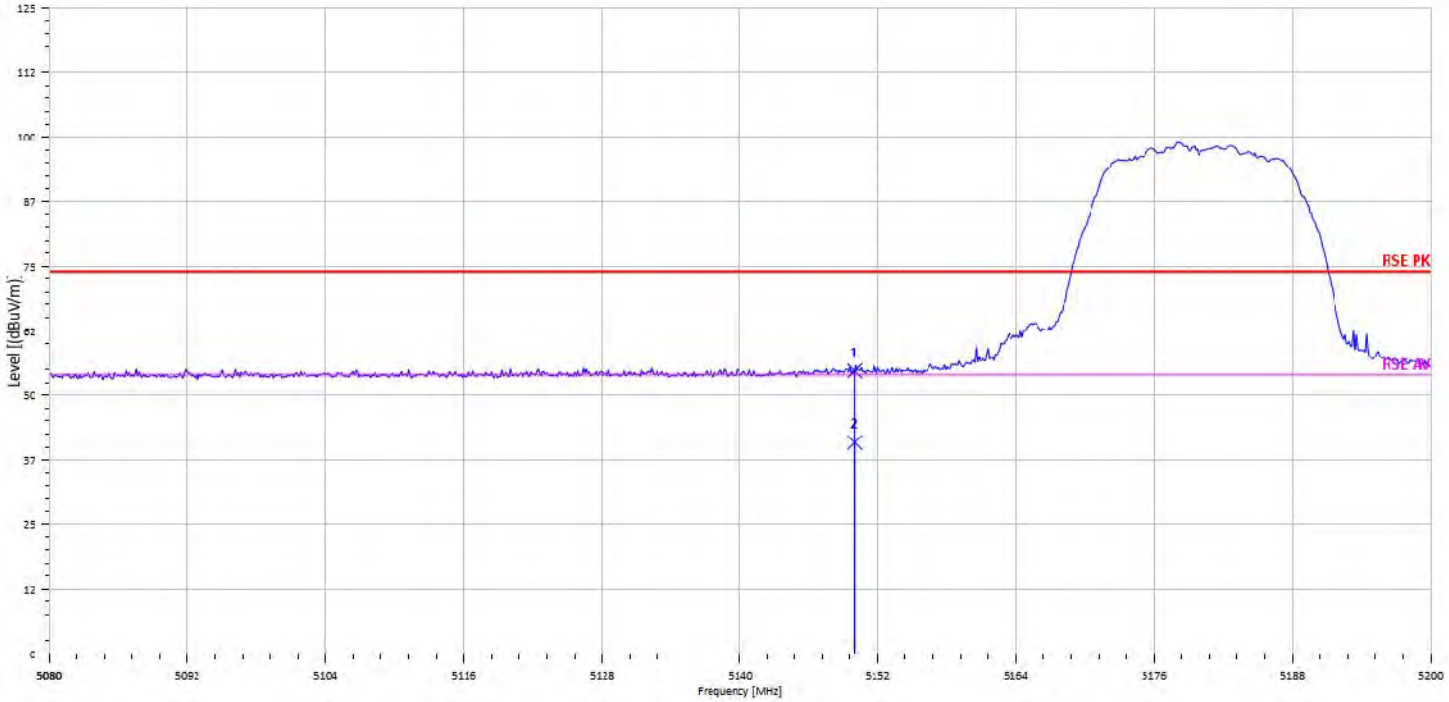
Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11aB1	Test Date :	2018/4/26
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	54.93	-0.17	54.76	74	-19.24
5150.00	E	Average	41.04	-0.17	40.87	54	-13.14

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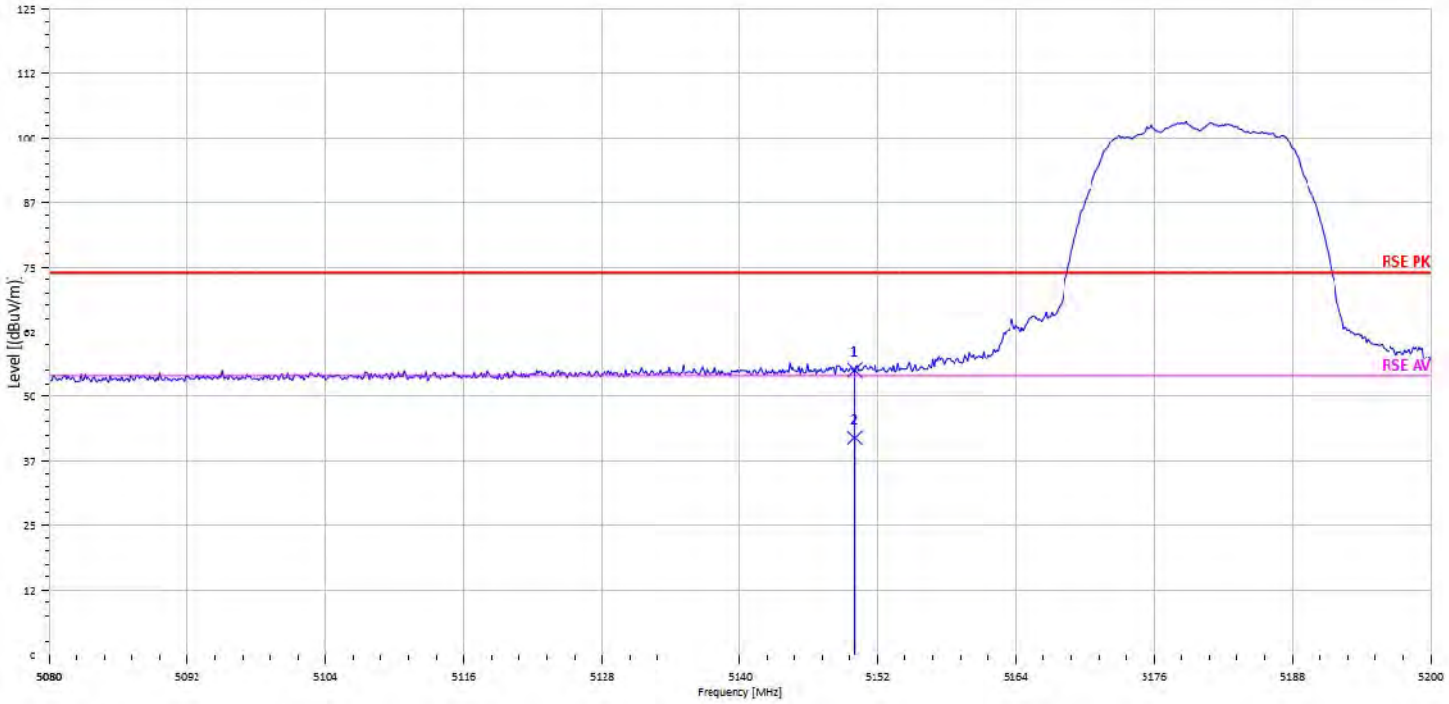
Operation Mode :	802.11aB1	Test Date :	2018/4/26
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.23	-0.17	55.06	74	-18.94
5150.00	E	Average	42.13	-0.17	41.96	54	-12.04

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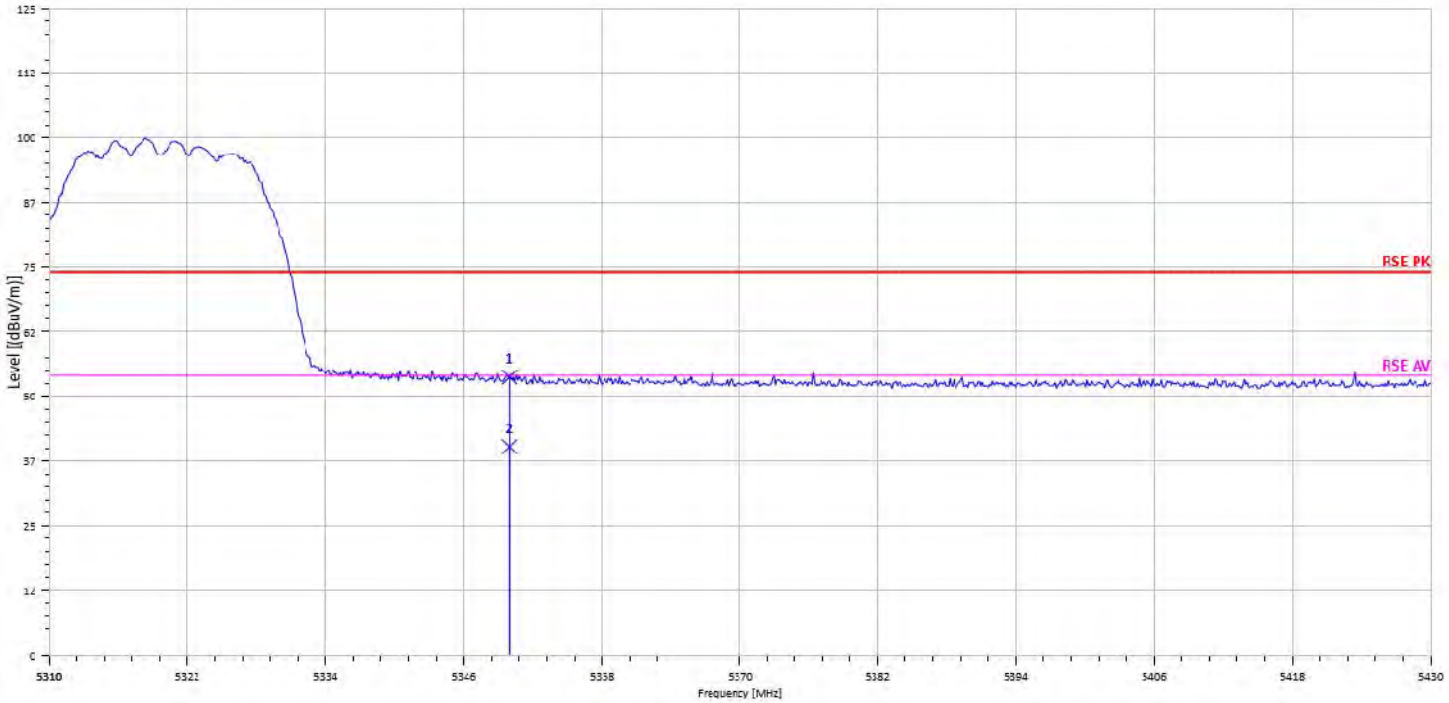
Operation Mode :	802.11aB2	Test Date :	2018/4/26
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	53.88	-0.15	53.73	74	-20.27
5350.00	E	Average	40.41	-0.15	40.26	54	-13.74

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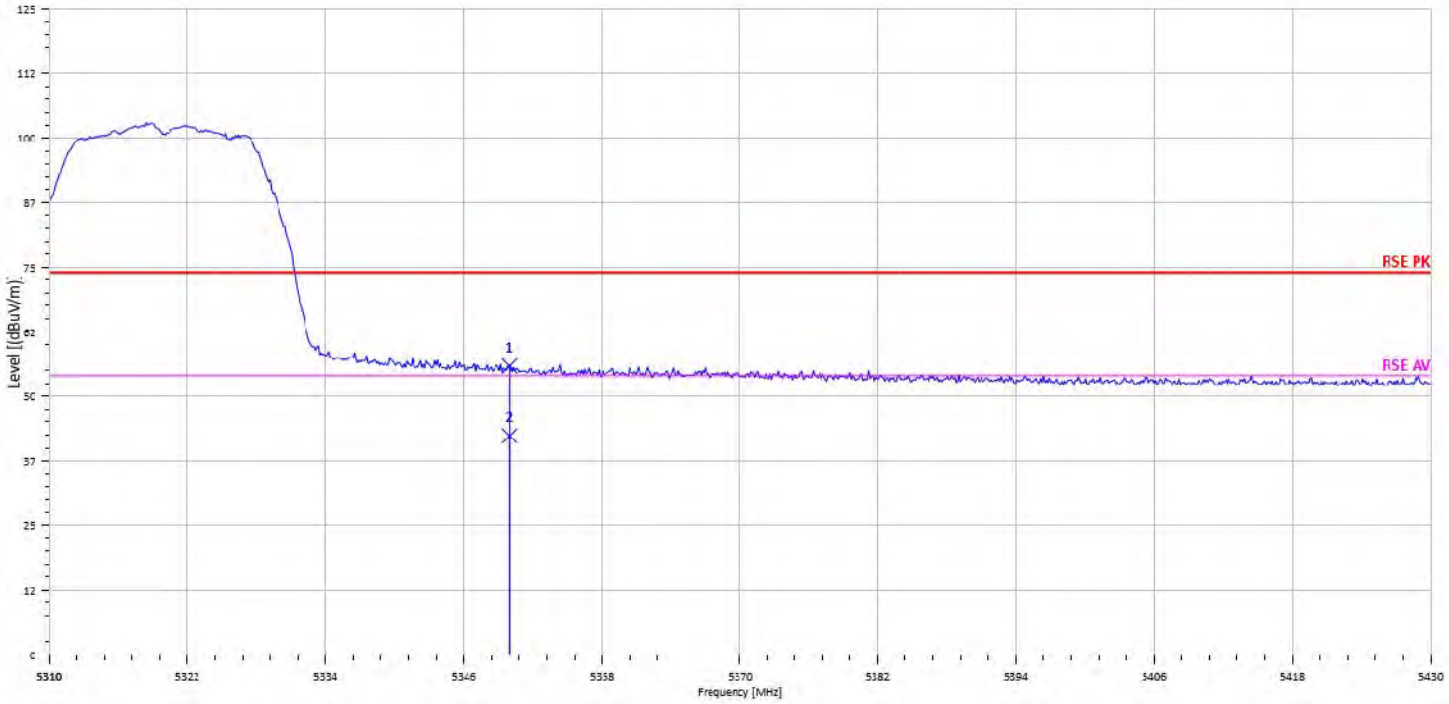
Operation Mode :	802.11aB2	Test Date :	2018/4/26
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	56.01	-0.15	55.85	74	-18.15
5350.00	E	Average	42.48	-0.15	42.32	54	-11.68

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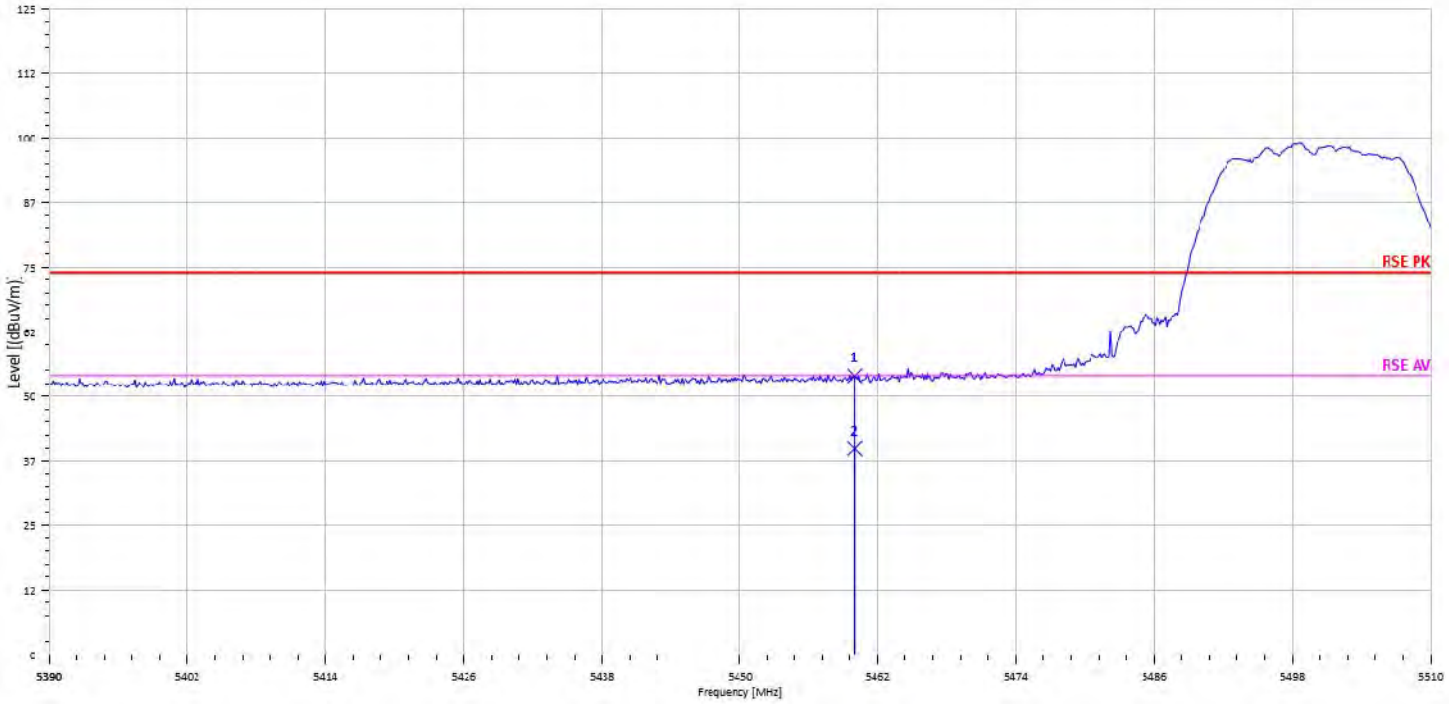
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.89	0.06	53.94	74	-20.06
5460.00	E	Average	39.79	0.06	39.85	54	-14.15

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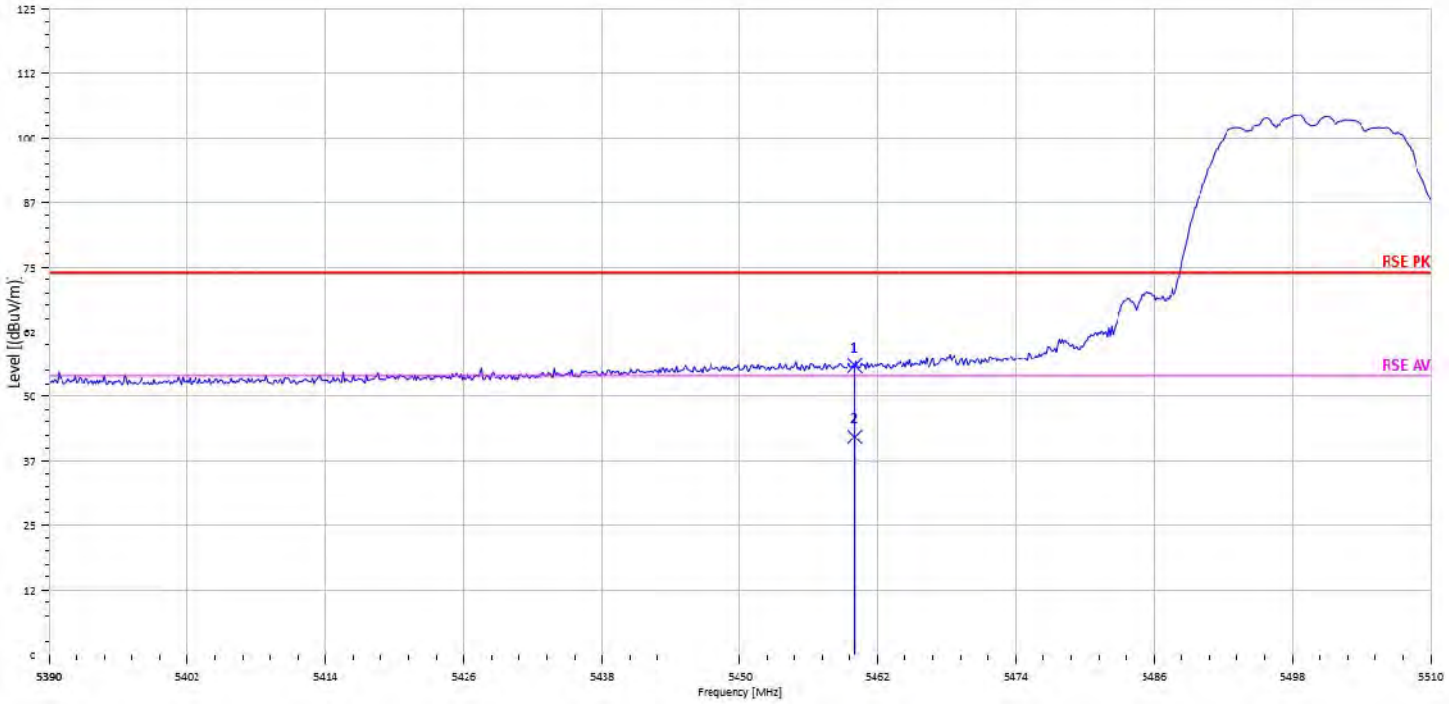
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	55.85	0.06	55.91	74	-18.09
5460.00	E	Average	42.06	0.06	42.12	54	-11.88

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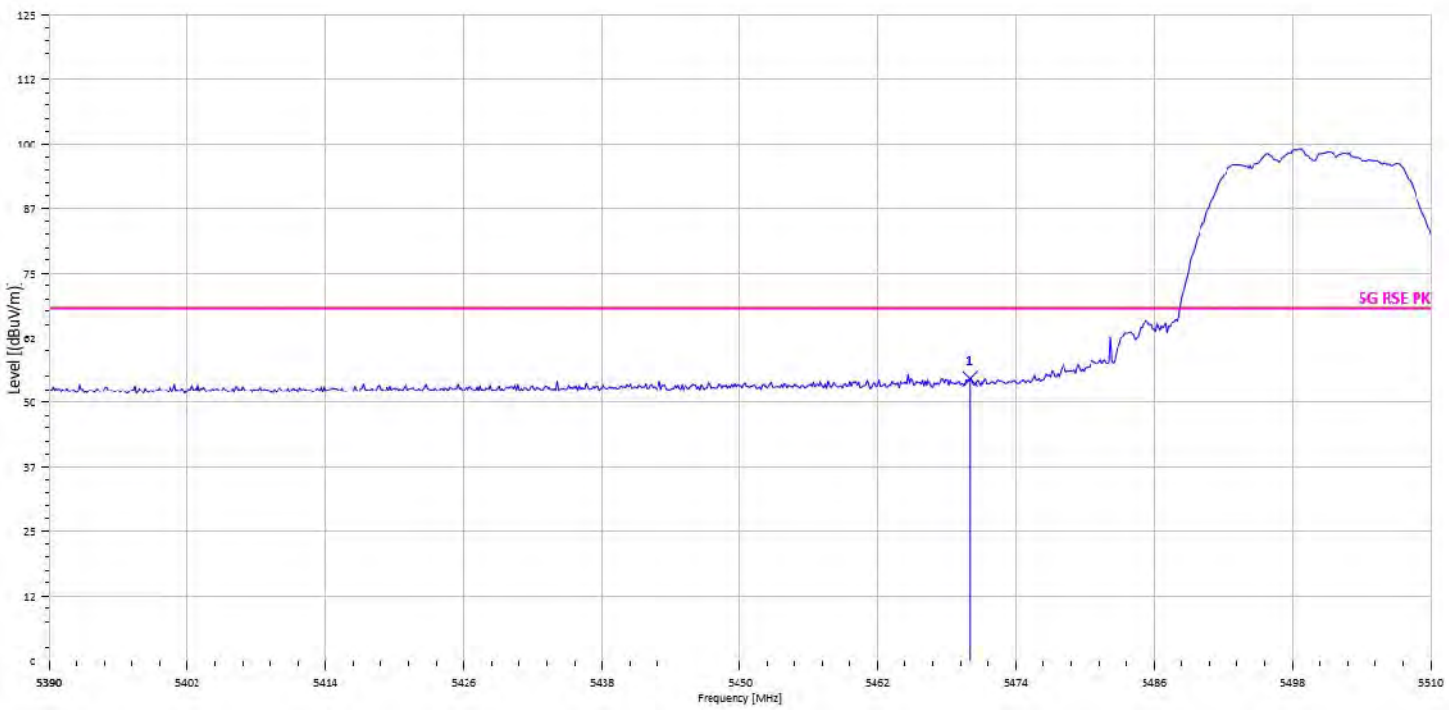
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	54.48	0.08	54.56	68.3	-13.74

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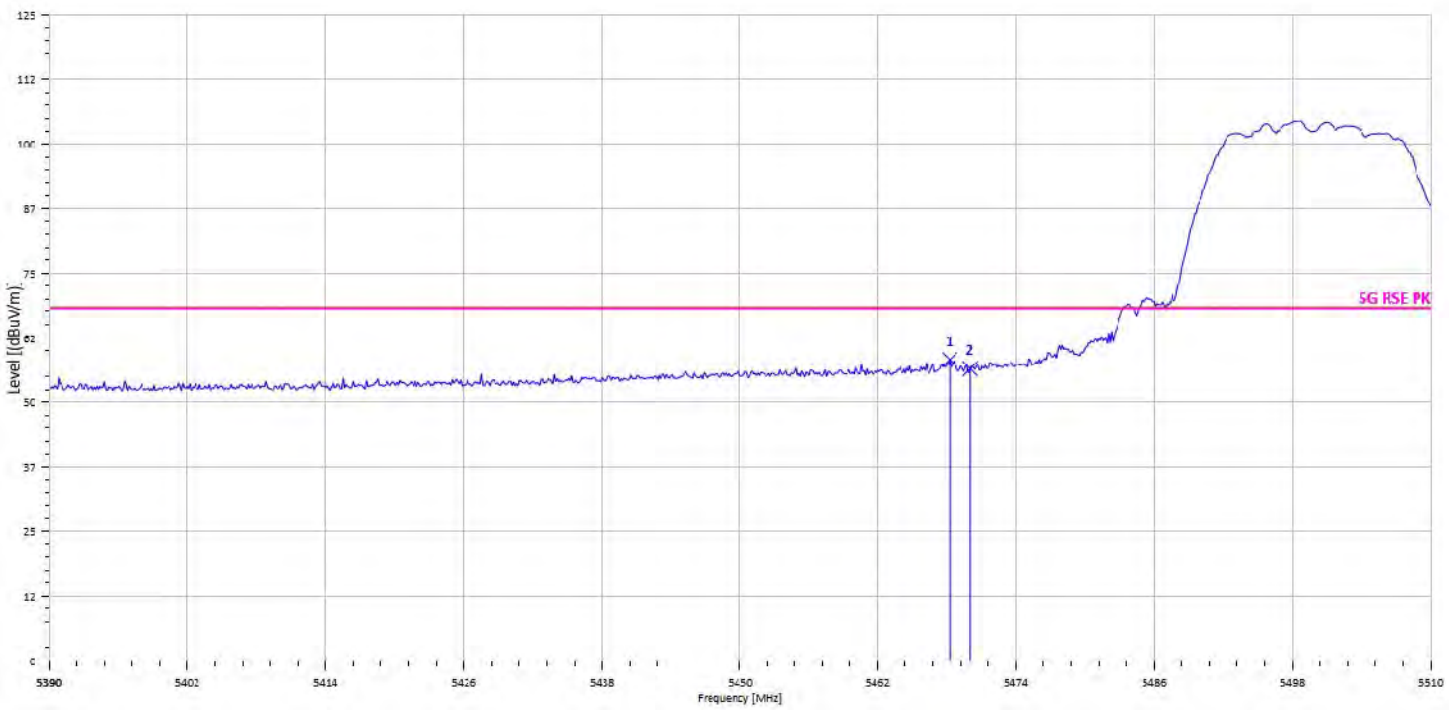
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5468.24	S	Peak	58.17	0.08	58.24	68.3	-10.06
5470.00	E	Peak	56.43	0.08	56.51	68.3	-11.79

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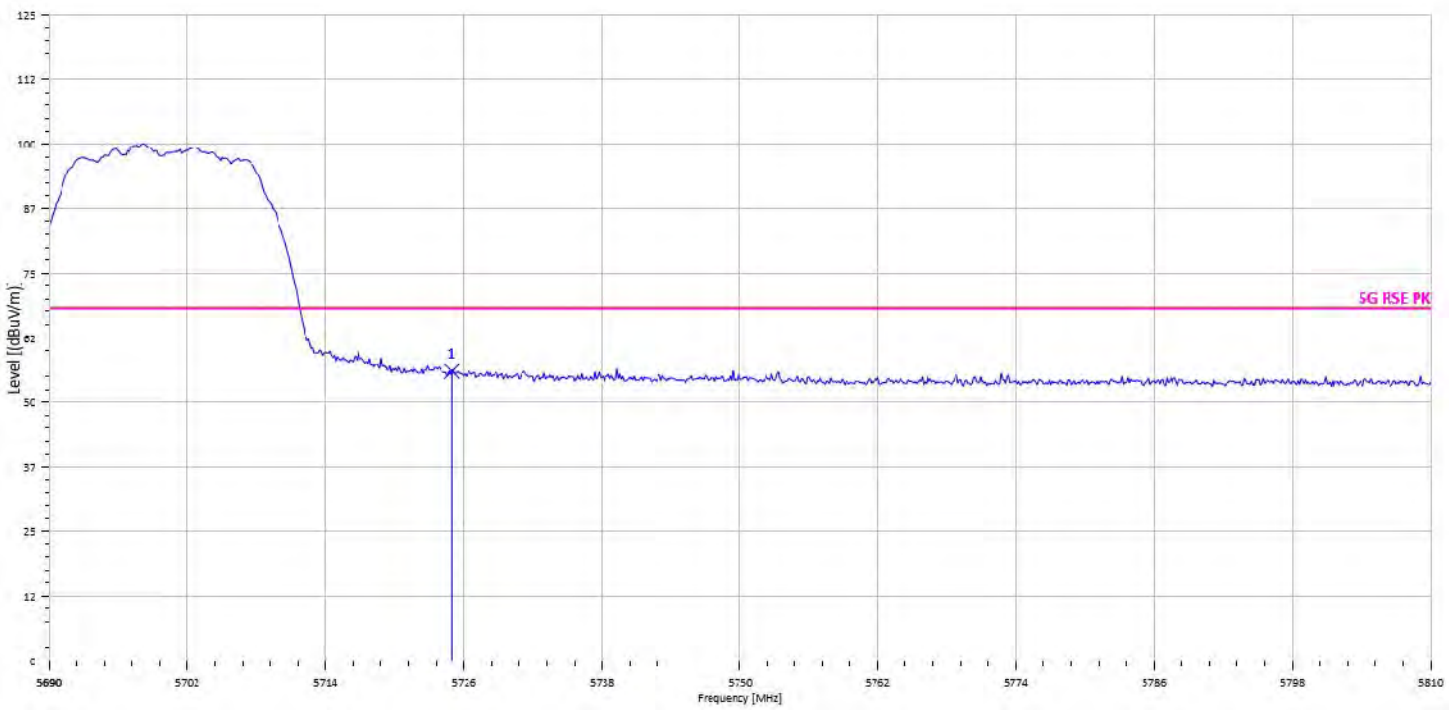
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	55.30	0.69	55.98	68.3	-12.32

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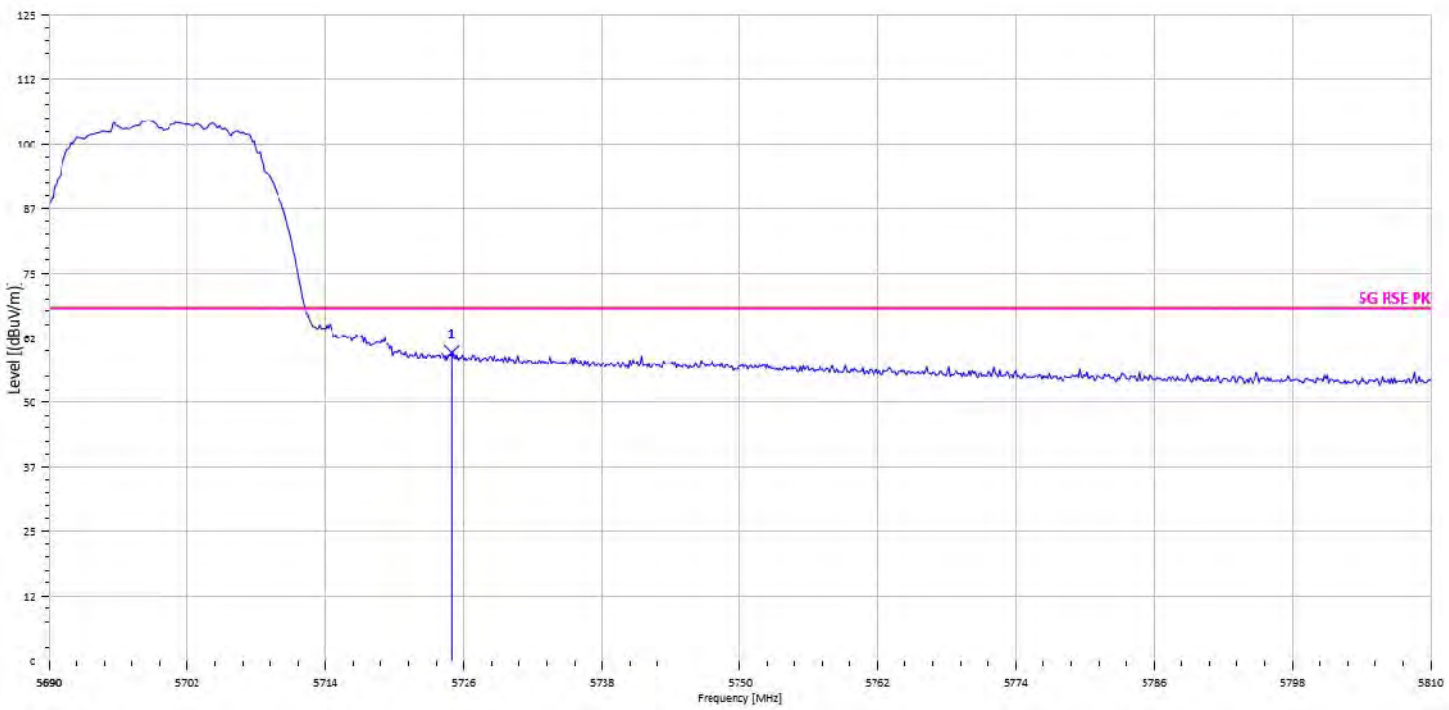
Operation Mode :	802.11aB3	Test Date :	2018/4/26
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	58.94	0.69	59.63	68.3	-8.67

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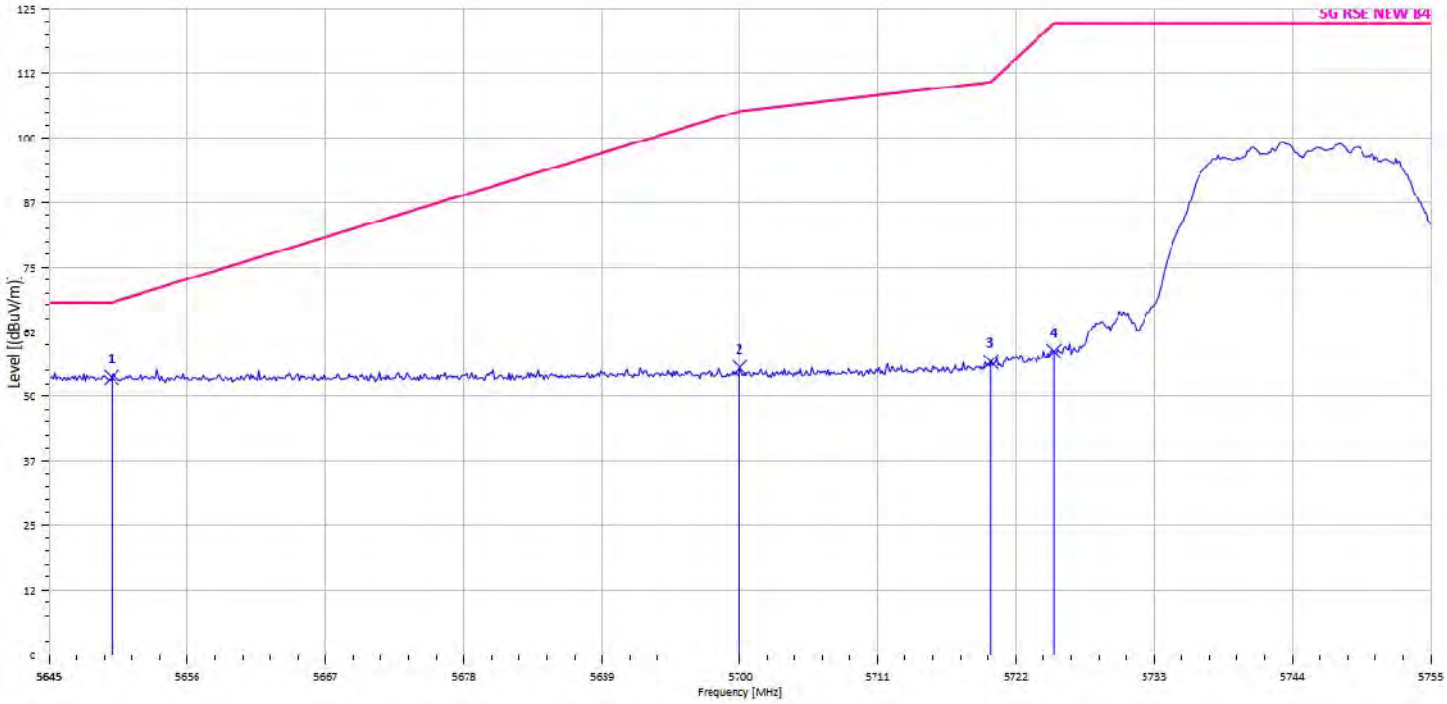
Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	53.07	0.63	53.70	68.23	-14.53
5700.00	S	Peak	54.96	0.56	55.52	105.23	-49.71
5720.00	S	Peak	56.05	0.66	56.71	110.83	-54.12
5725.00	E	Peak	58.03	0.69	58.72	122.23	-63.51

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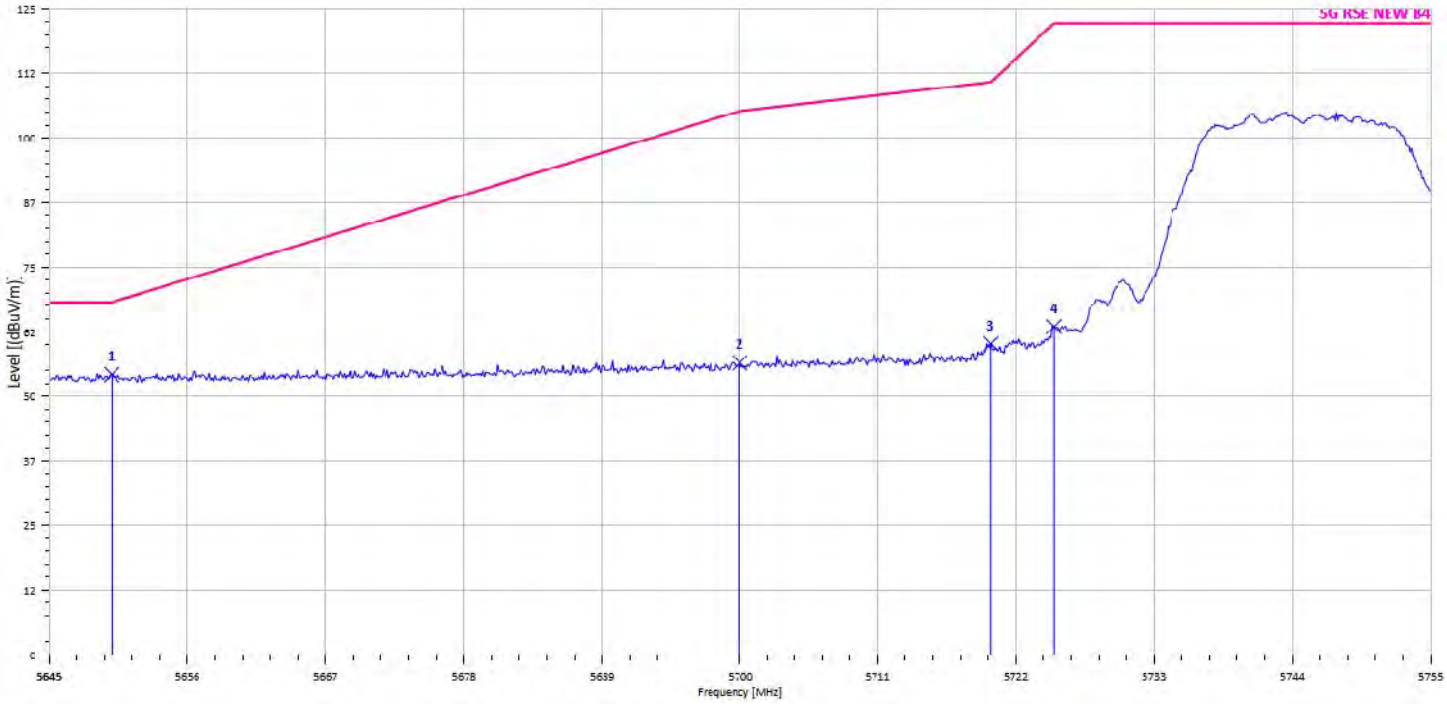
Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	53.60	0.63	54.23	68.23	-14.00
5700.00	S	Peak	55.93	0.56	56.49	105.23	-48.74
5720.00	S	Peak	59.54	0.66	60.20	110.83	-50.63
5725.00	E	Peak	62.81	0.69	63.50	122.23	-58.73

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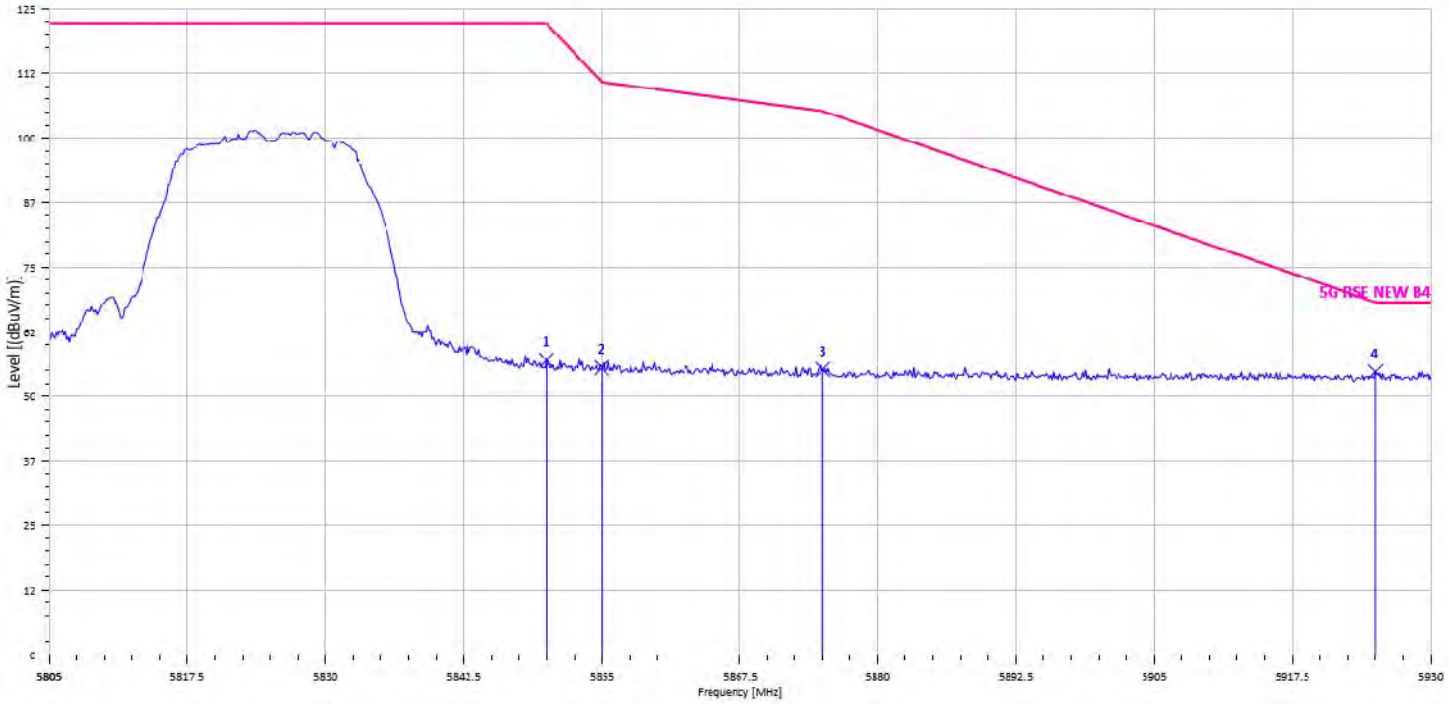
Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	55.96	1.01	56.97	122.23	-65.26
5855.00	S	Peak	54.52	1.01	55.53	110.83	-55.30
5875.00	S	Peak	54.21	0.99	55.20	105.23	-50.03
5925.00	S	Peak	53.73	1.04	54.77	68.23	-13.46

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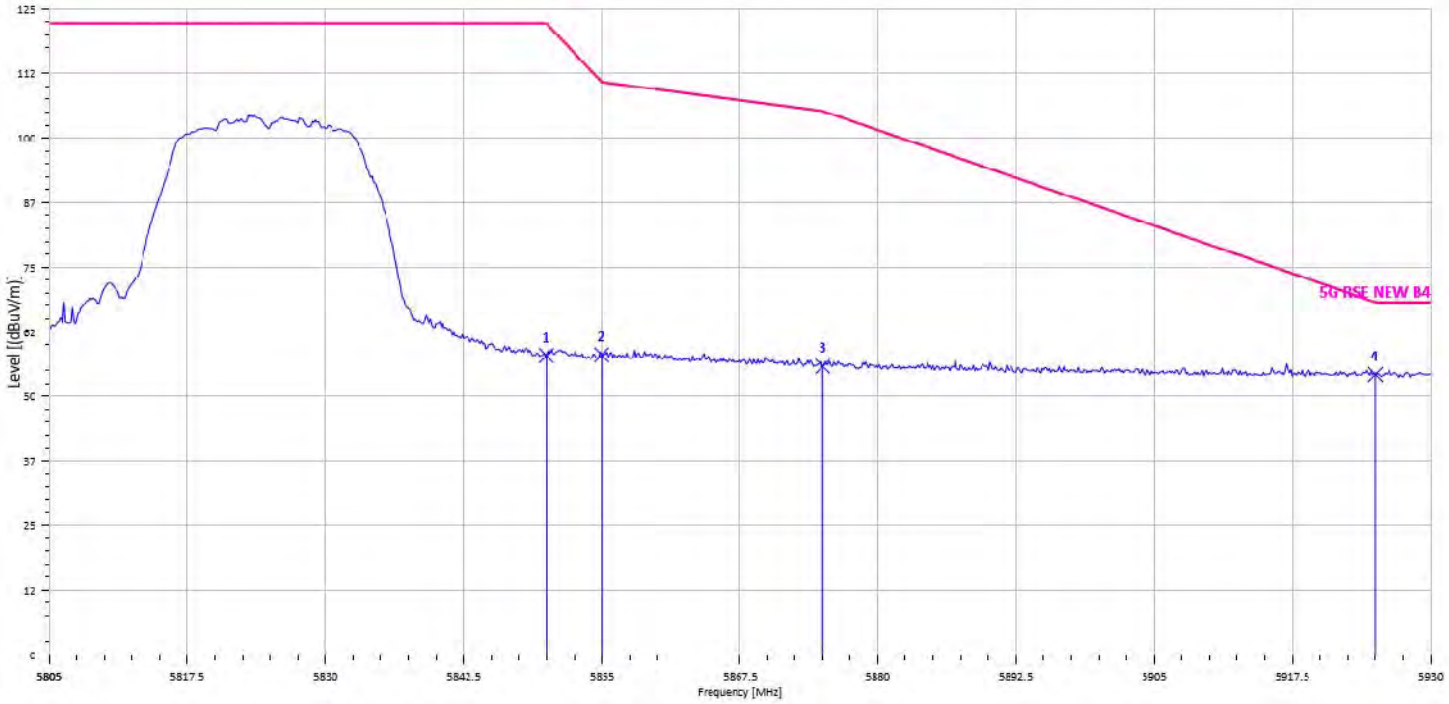
Operation Mode :	802.11aB4	Test Date :	2018/4/26
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	56.86	1.01	57.87	122.23	-64.36
5855.00	S	Peak	57.02	1.01	58.03	110.83	-52.80
5875.00	S	Peak	54.81	0.99	55.80	105.23	-49.43
5925.00	S	Peak	53.21	1.04	54.25	68.23	-13.98

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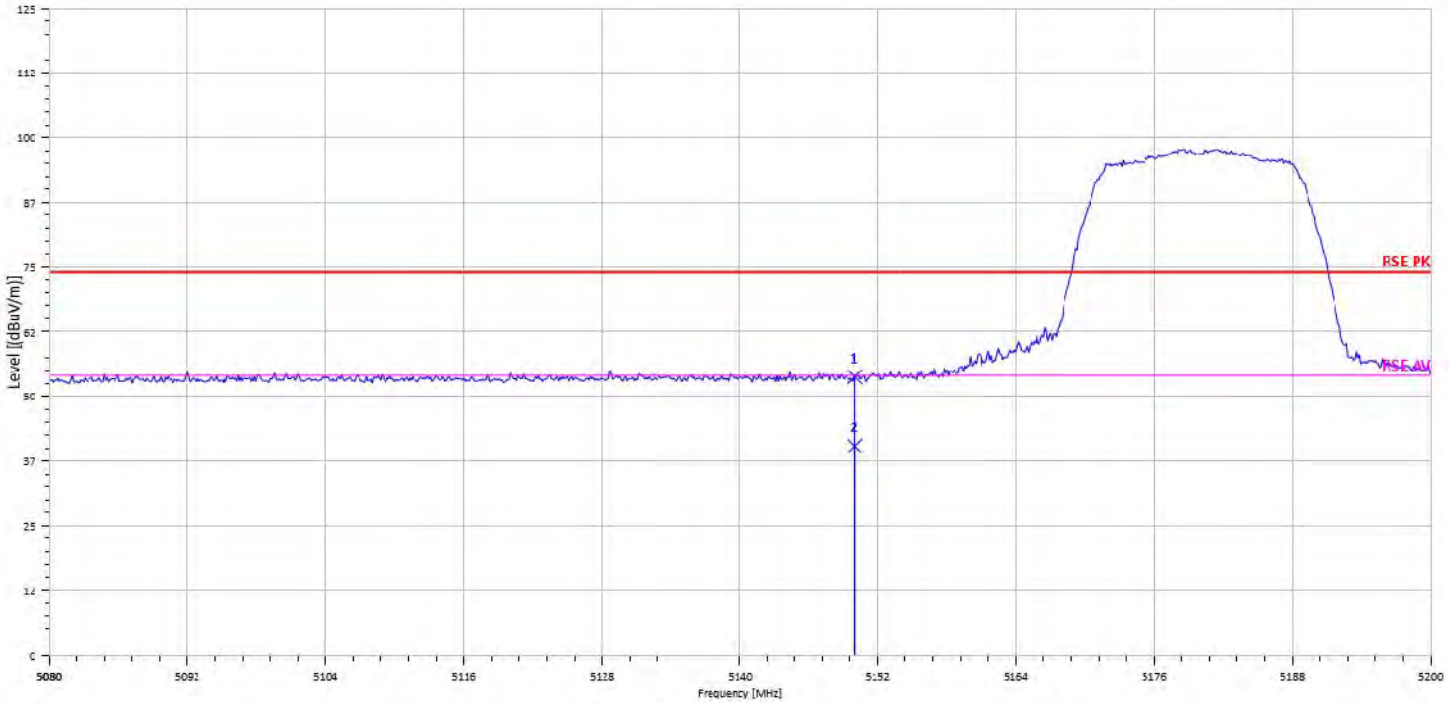
802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2018/4/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	53.95	-0.17	53.78	74	-20.22
5150.00	E	Average	40.56	-0.17	40.39	54	-13.61

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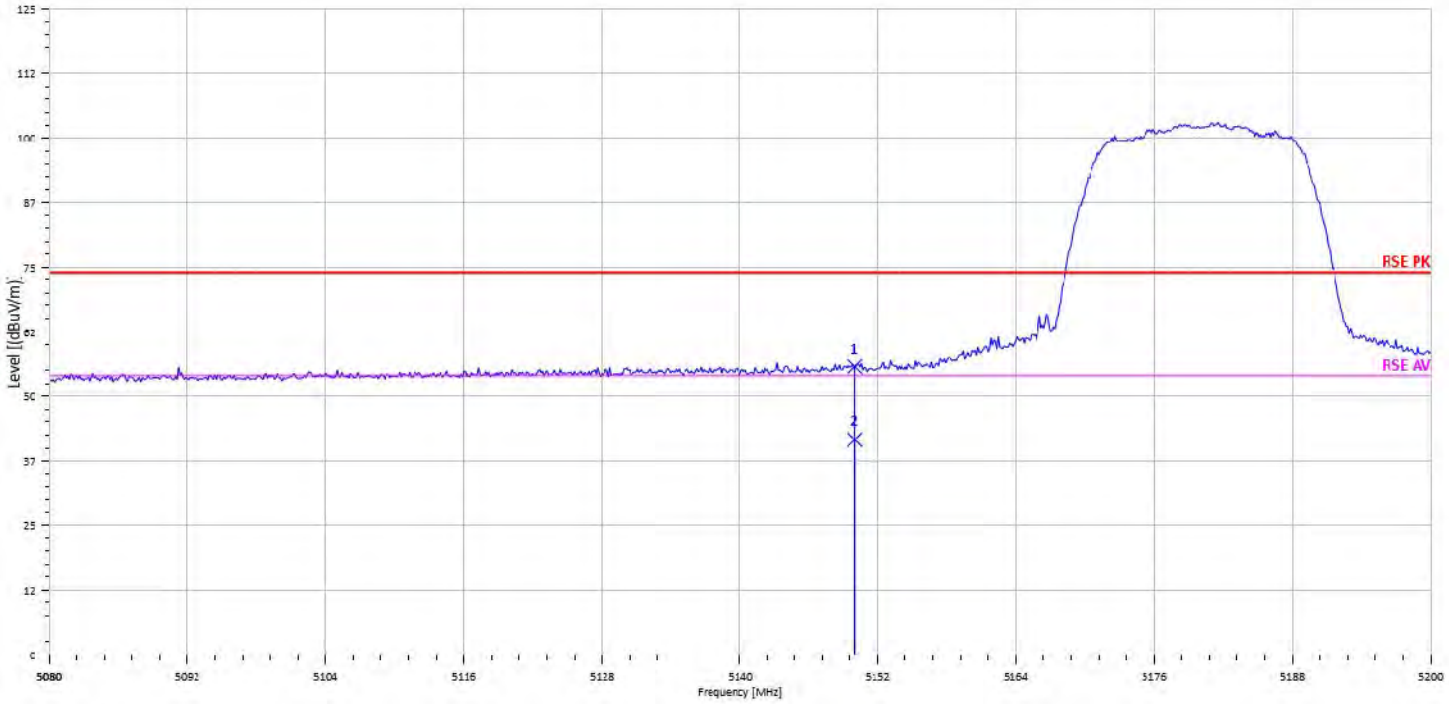
Operation Mode :	802.11n20B1	Test Date :	2018/4/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.90	-0.17	55.73	74	-18.27
5150.00	E	Average	41.78	-0.17	41.61	54	-12.39

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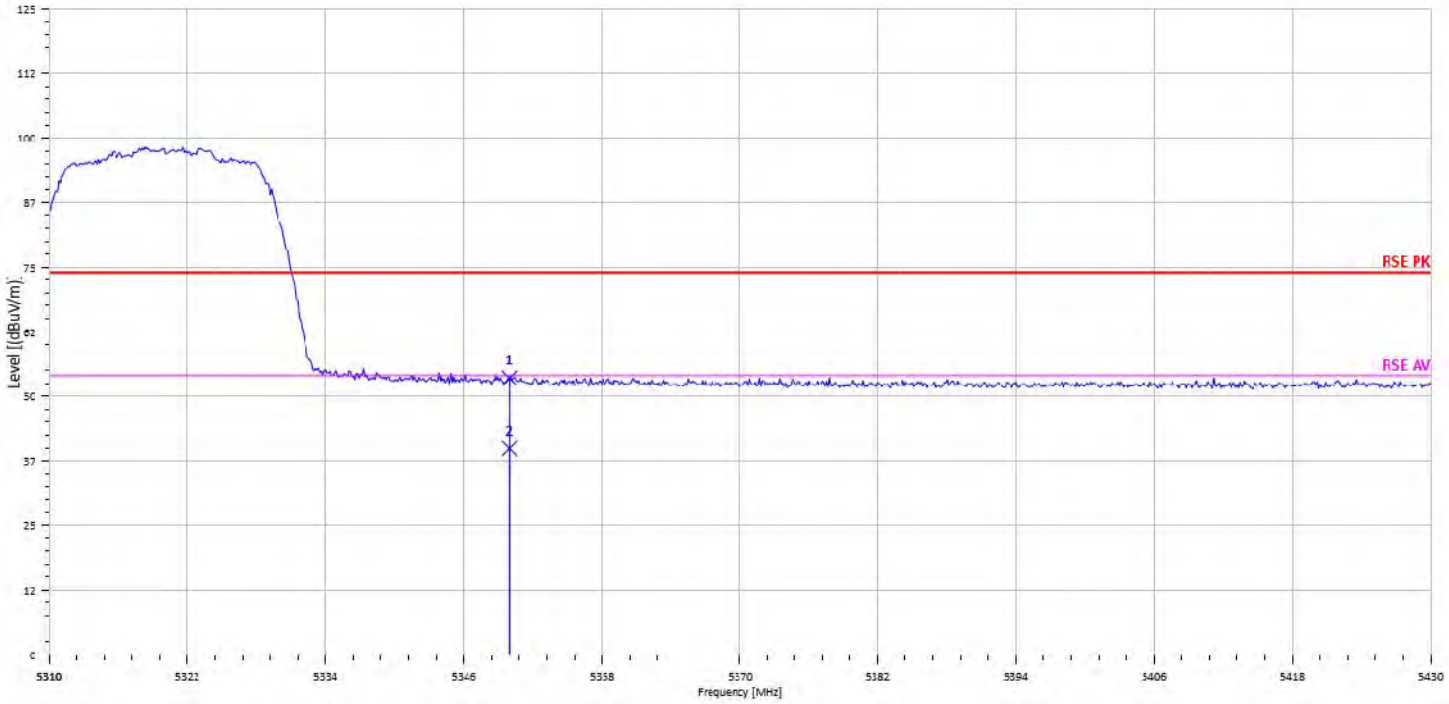
Operation Mode :	802.11n20B2	Test Date :	2018/4/27
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	53.66	-0.15	53.50	74	-20.50
5350.00	E	Average	40.04	-0.15	39.88	54	-14.12

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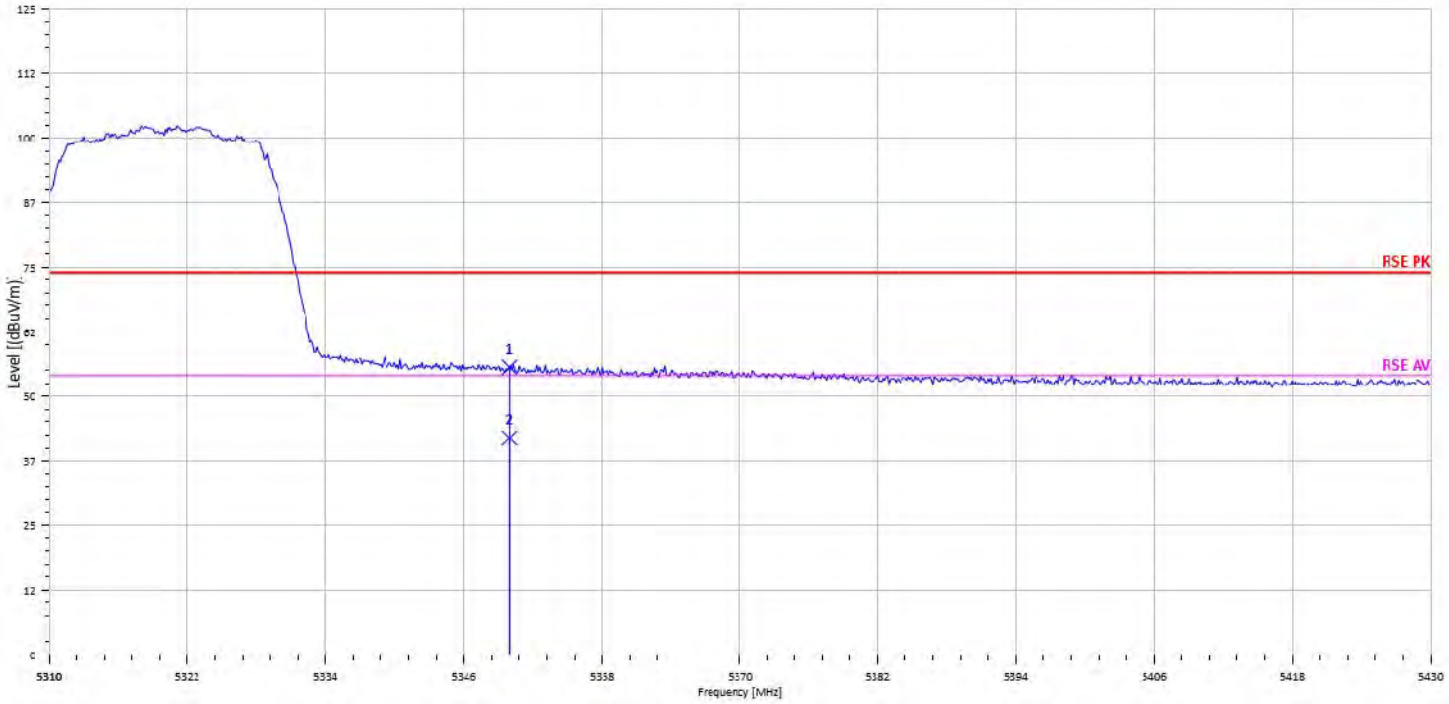
Operation Mode :	802.11n20B2	Test Date :	2018/4/27
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	55.73	-0.15	55.58	74	-18.43
5350.00	E	Average	42.07	-0.15	41.91	54	-12.09

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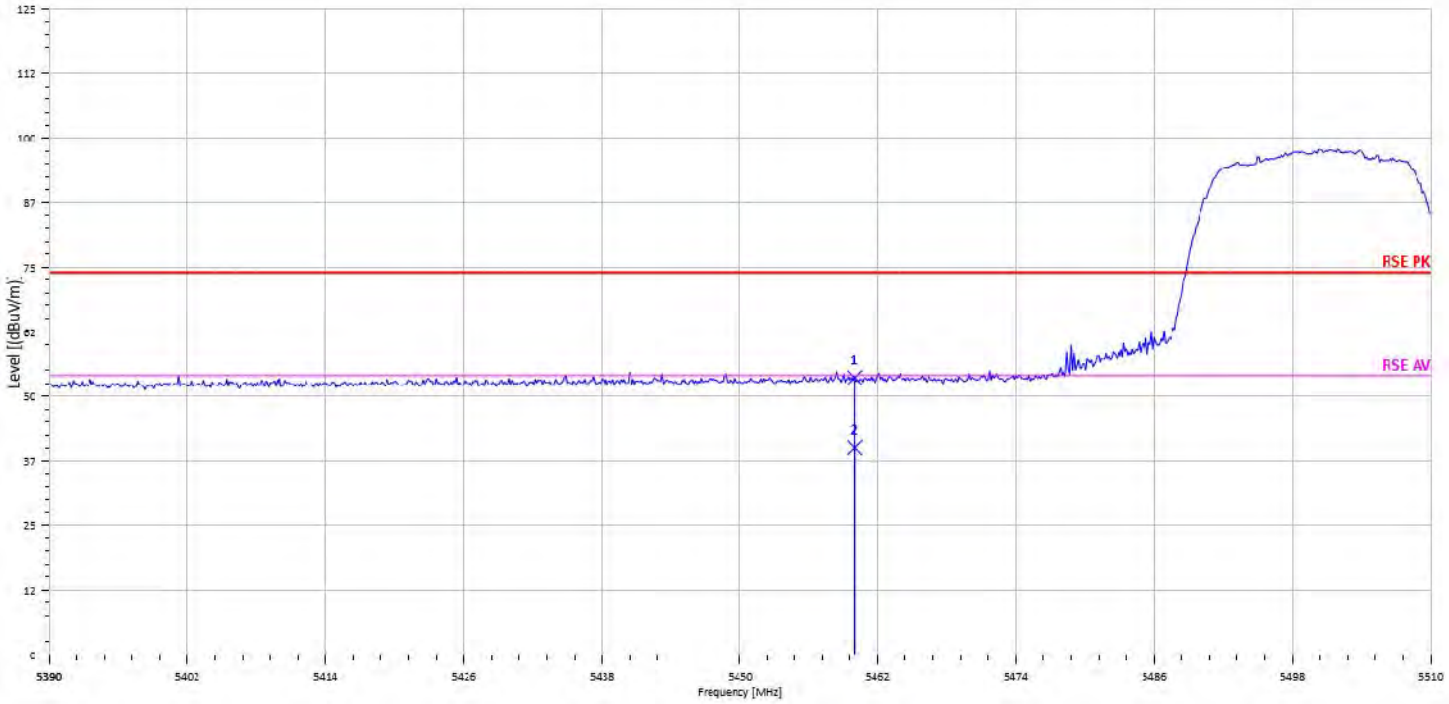
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.53	0.06	53.59	74	-20.41
5460.00	E	Average	39.95	0.06	40.01	54	-14.00

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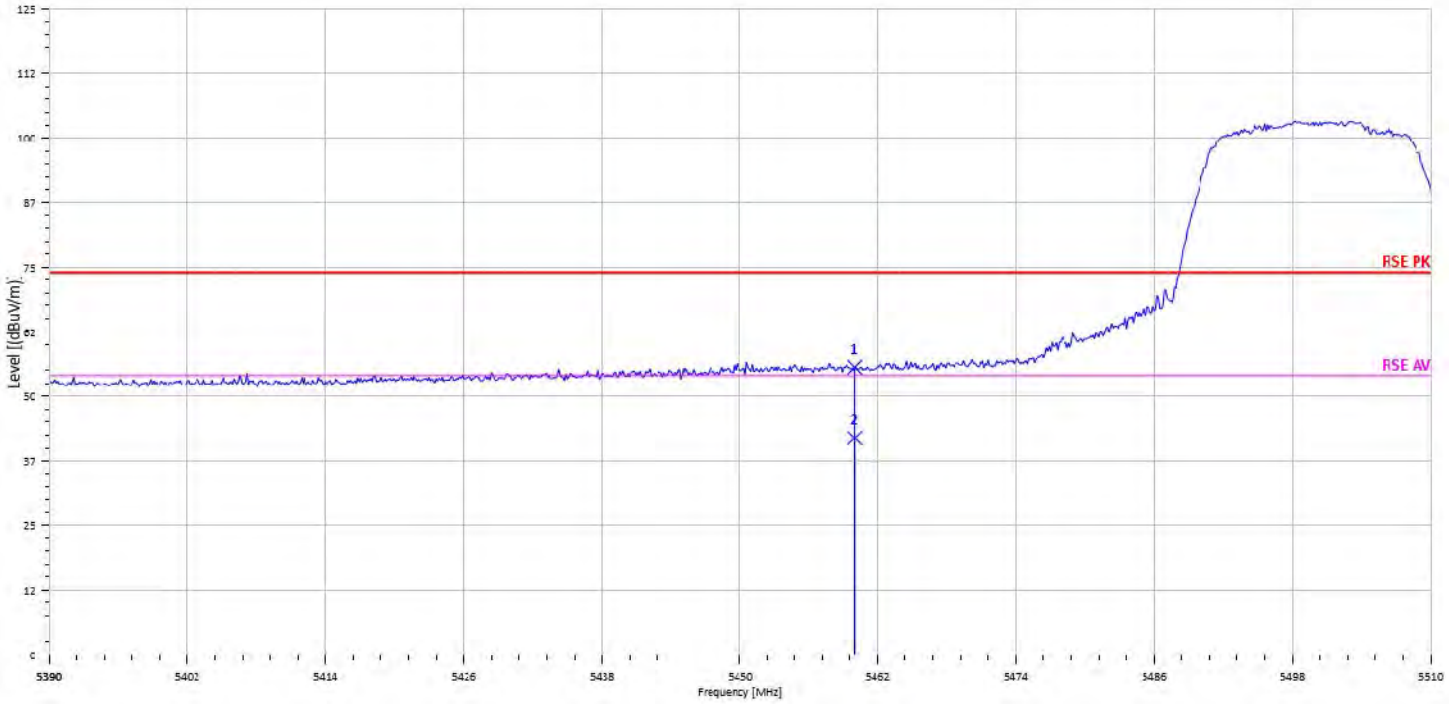
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	55.52	0.06	55.57	74	-18.43
5460.00	E	Average	41.85	0.06	41.91	54	-12.09

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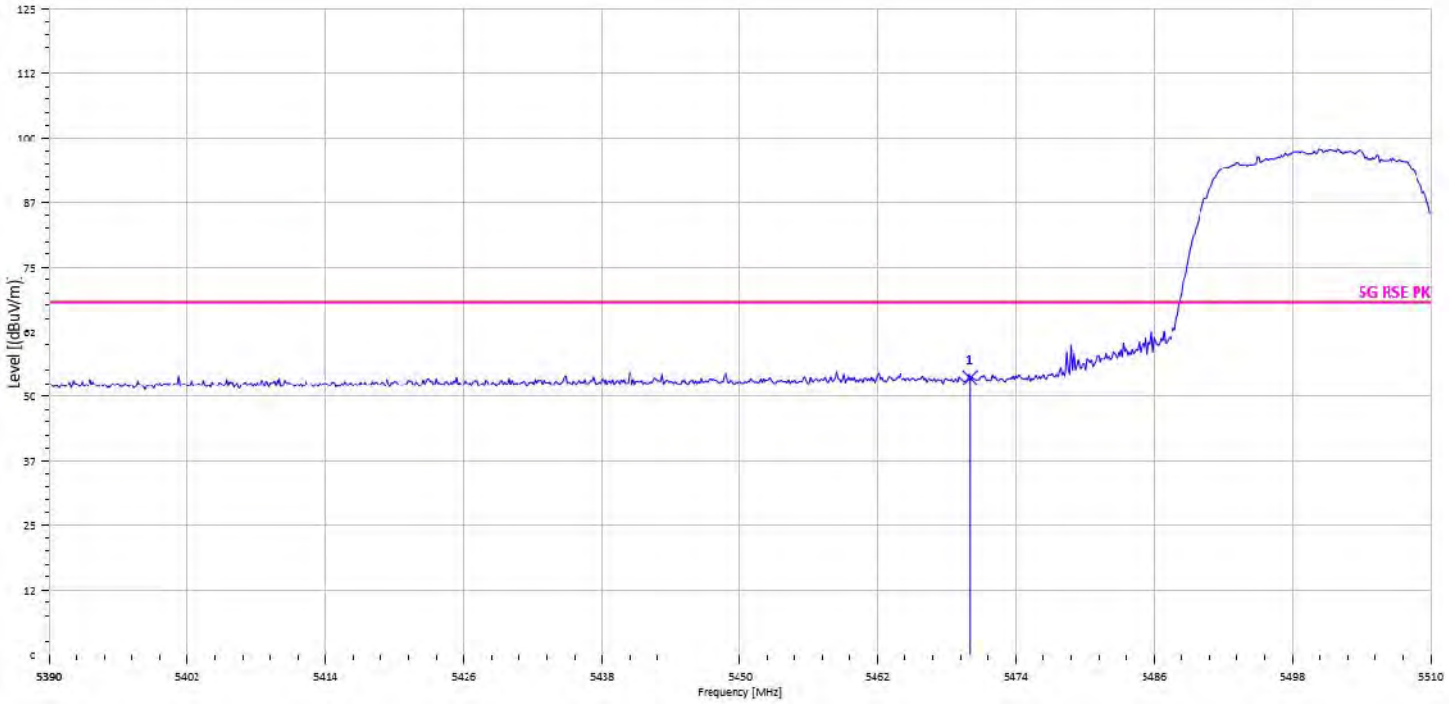
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	53.48	0.08	53.56	68.3	-14.74

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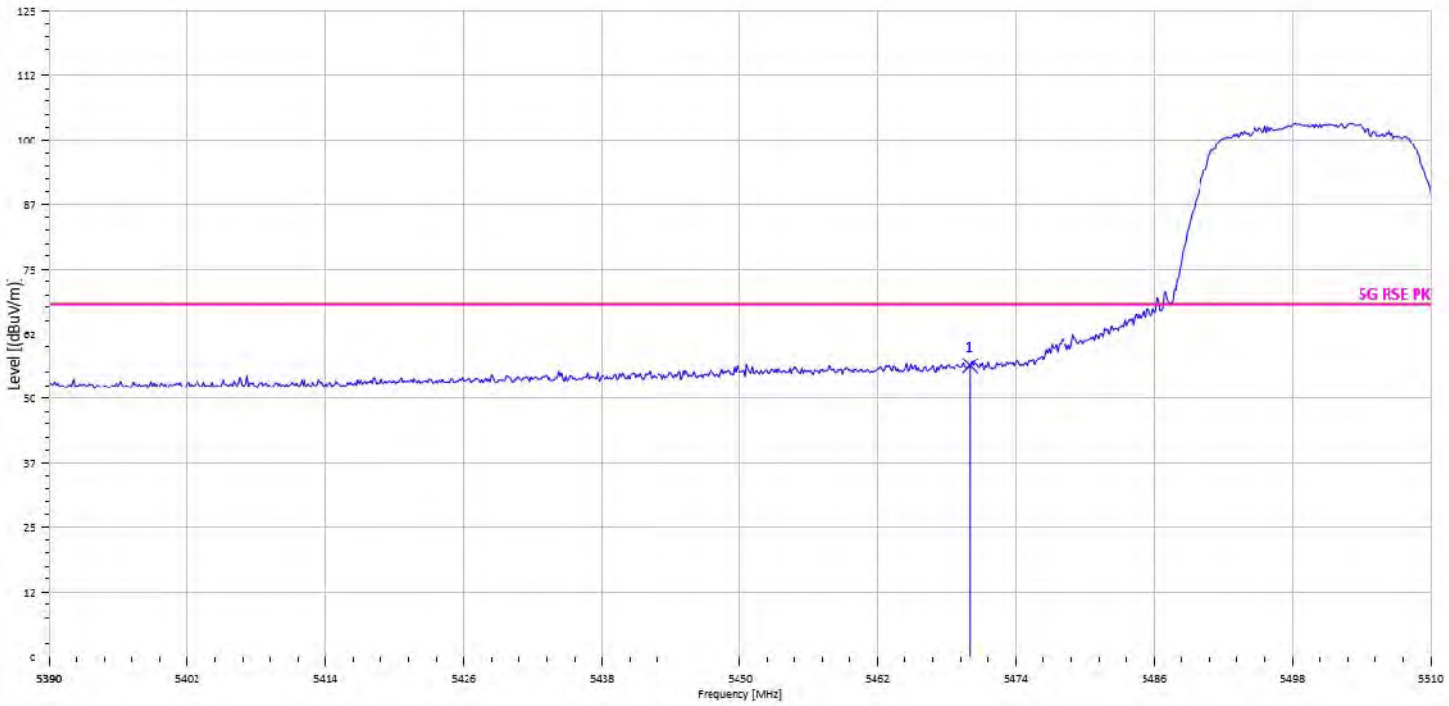
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5470.00	E	Peak	56.22	0.08	56.30	68.3	-12.00

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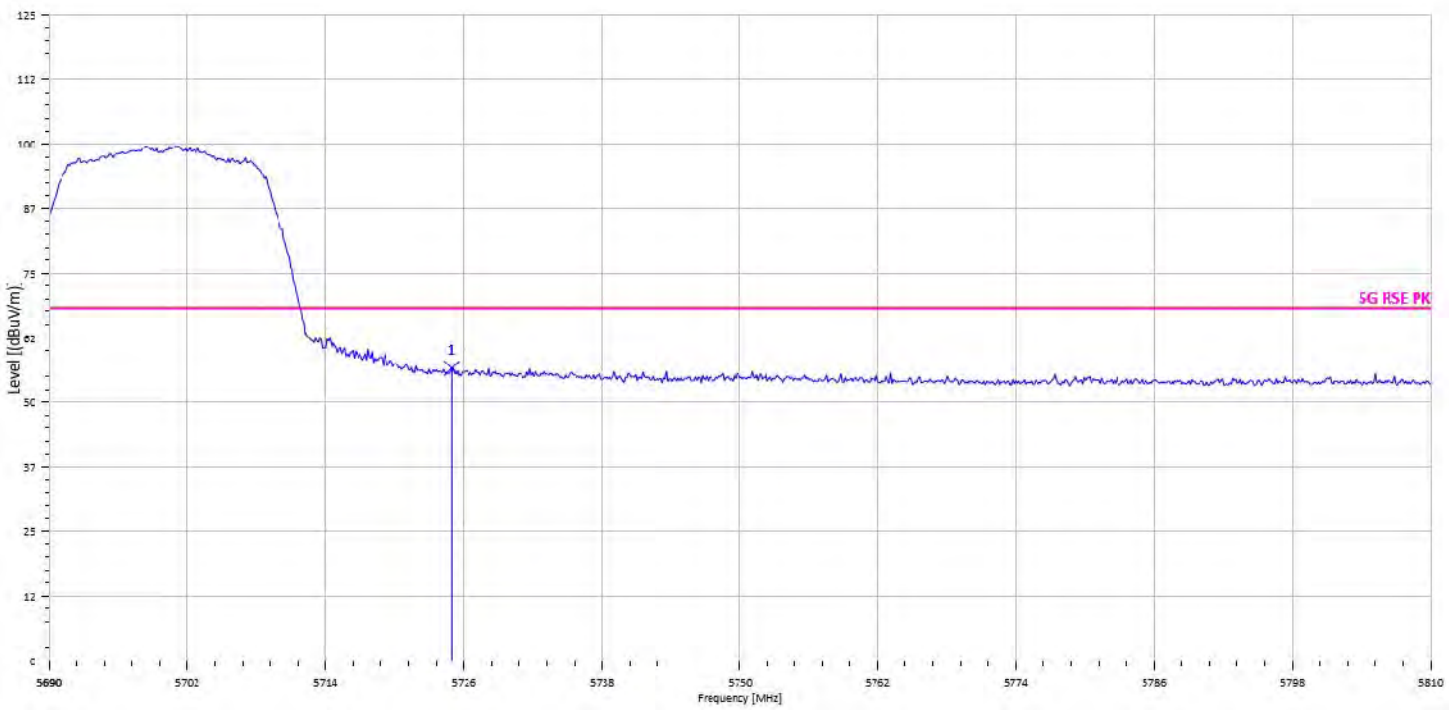
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	55.90	0.69	56.58	68.3	-11.72

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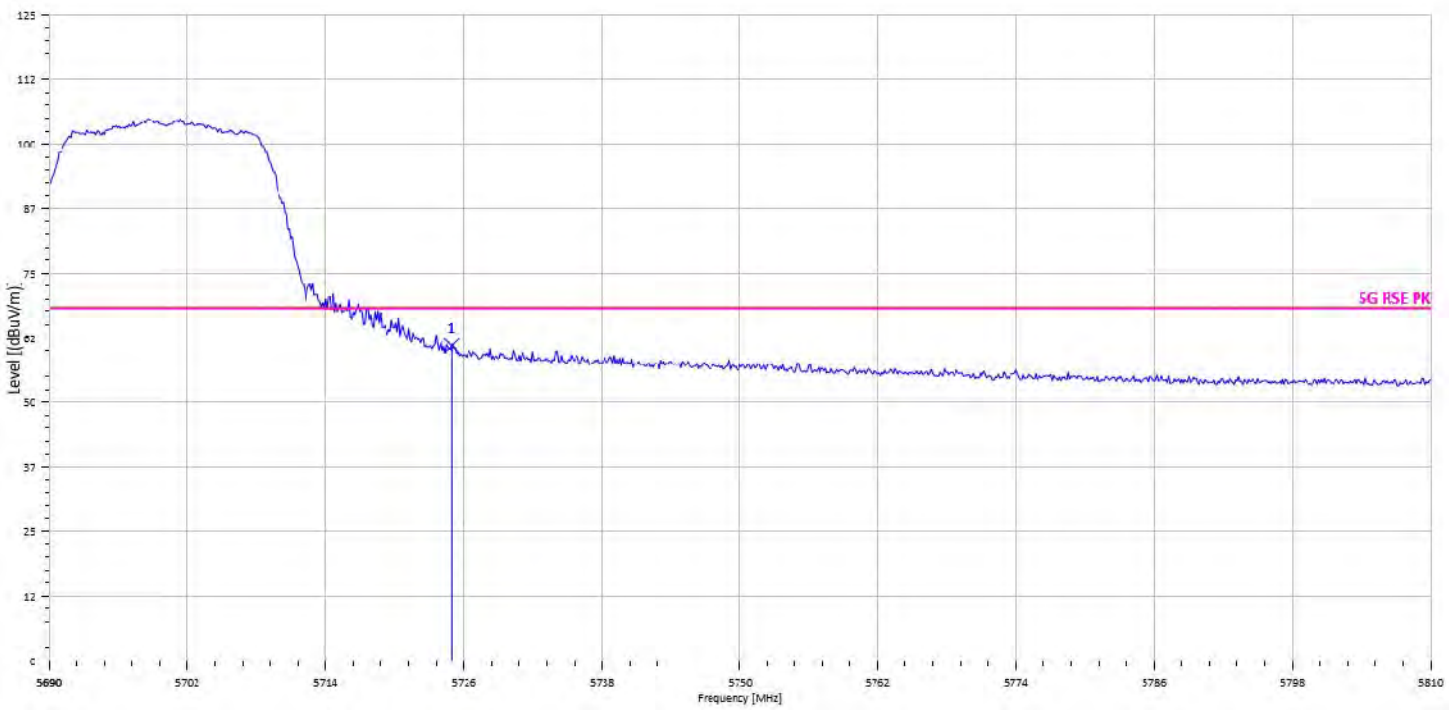
Operation Mode :	802.11n20B3	Test Date :	2018/4/27
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	60.22	0.69	60.90	68.3	-7.40

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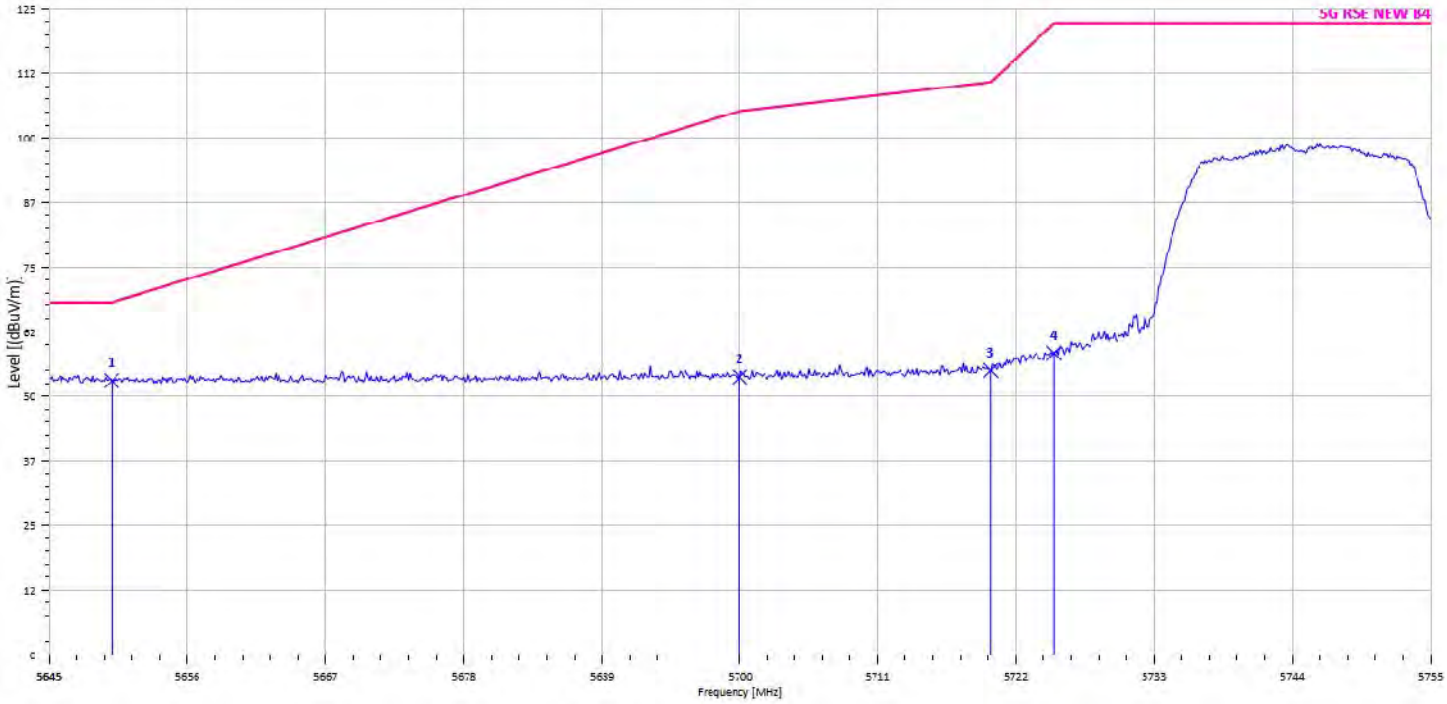
Operation Mode :	802.11n20B4	Test Date :	2018/4/27
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	52.42	0.63	53.04	68.23	-15.19
5700.00	S	Peak	53.20	0.56	53.76	105.23	-51.47
5720.00	S	Peak	54.37	0.66	55.03	110.83	-55.80
5725.00	E	Peak	57.67	0.69	58.35	122.23	-63.88

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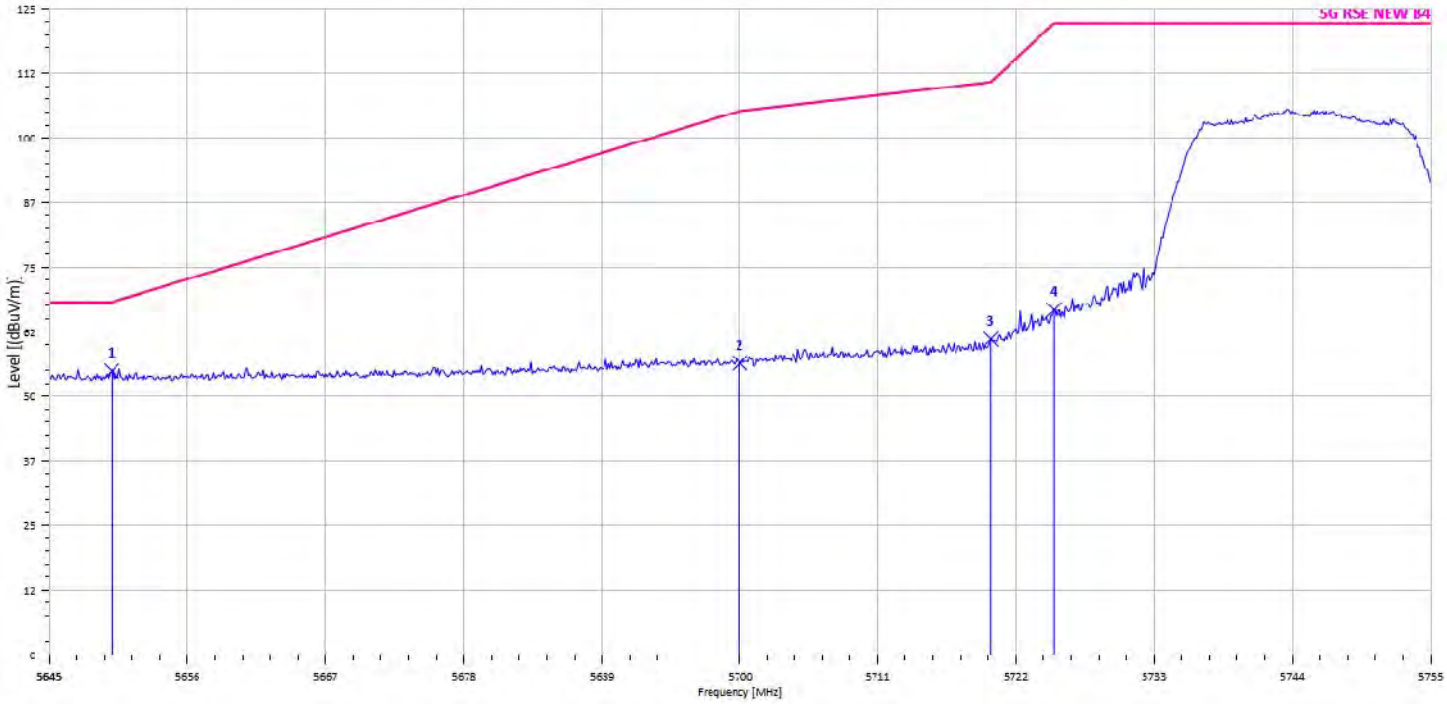
Operation Mode :	802.11n20B4	Test Date :	2018/4/27
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	54.25	0.63	54.87	68.23	-13.36
5700.00	S	Peak	55.89	0.56	56.45	105.23	-48.78
5720.00	S	Peak	60.41	0.66	61.07	110.83	-49.76
5725.00	E	Peak	66.03	0.69	66.72	122.23	-55.51

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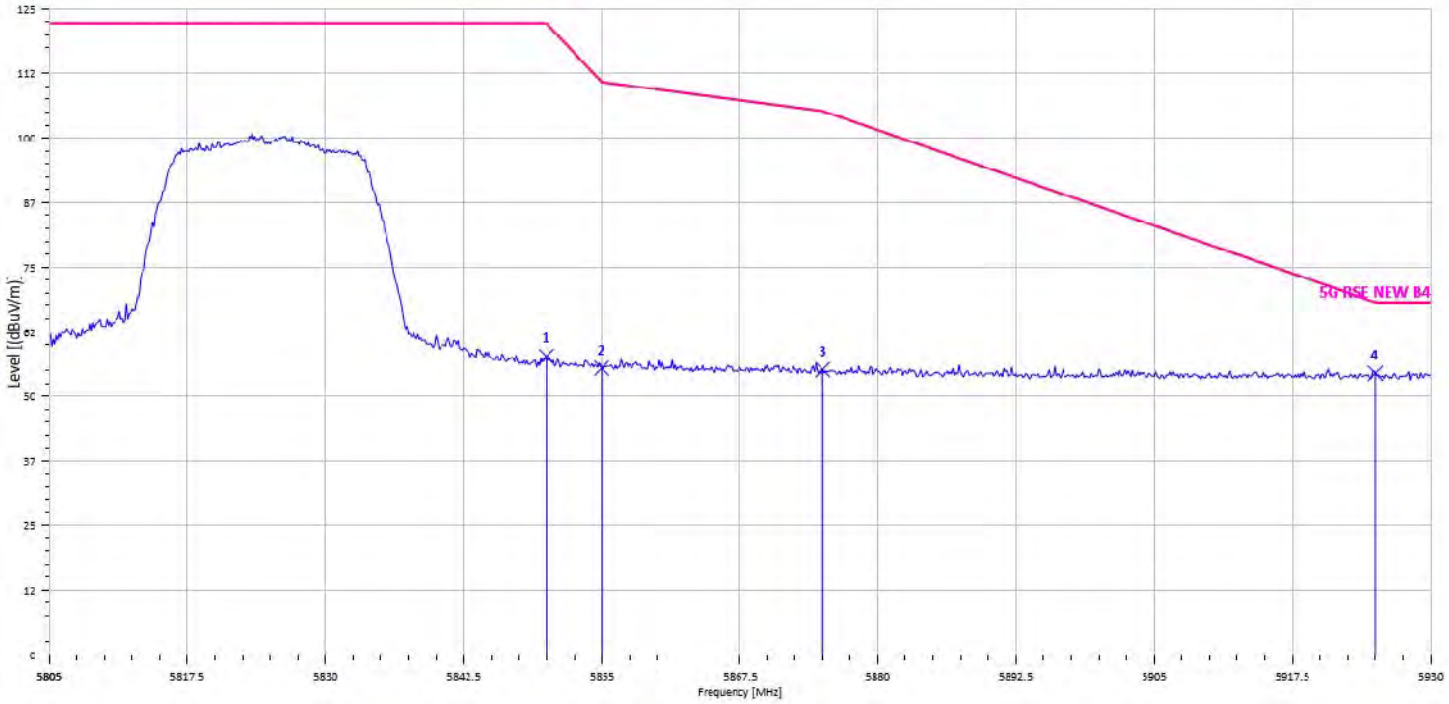
Operation Mode :	802.11n20B4	Test Date :	2018/4/27
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	56.72	1.01	57.73	122.23	-64.50
5855.00	S	Peak	54.47	1.01	55.47	110.83	-55.36
5875.00	S	Peak	54.18	0.99	55.17	105.23	-50.06
5925.00	S	Peak	53.43	1.04	54.46	68.23	-13.77

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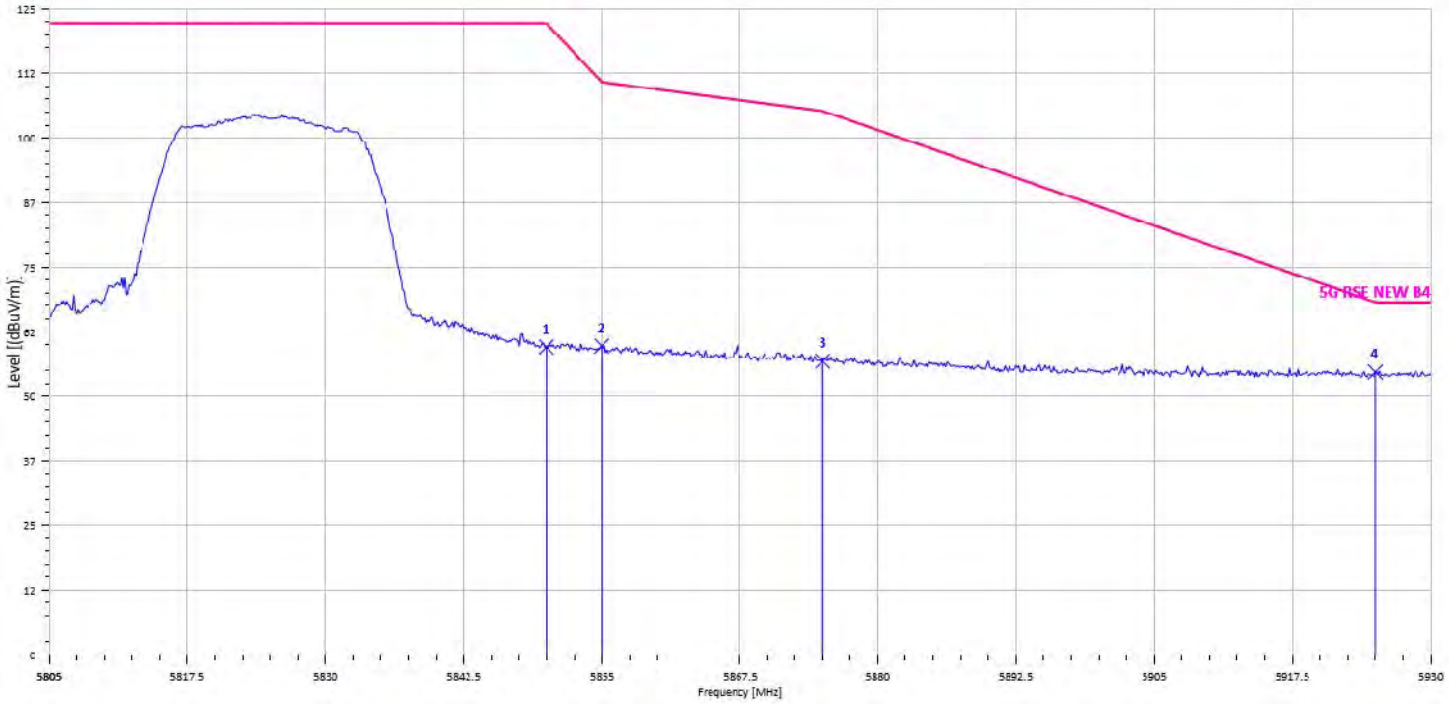
Operation Mode :	802.11n20B4	Test Date :	2018/4/27
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	58.53	1.01	59.54	122.23	-62.69
5855.00	S	Peak	58.72	1.01	59.73	110.83	-51.10
5875.00	S	Peak	55.83	0.99	56.82	105.23	-48.41
5925.00	S	Peak	53.68	1.04	54.72	68.23	-13.51

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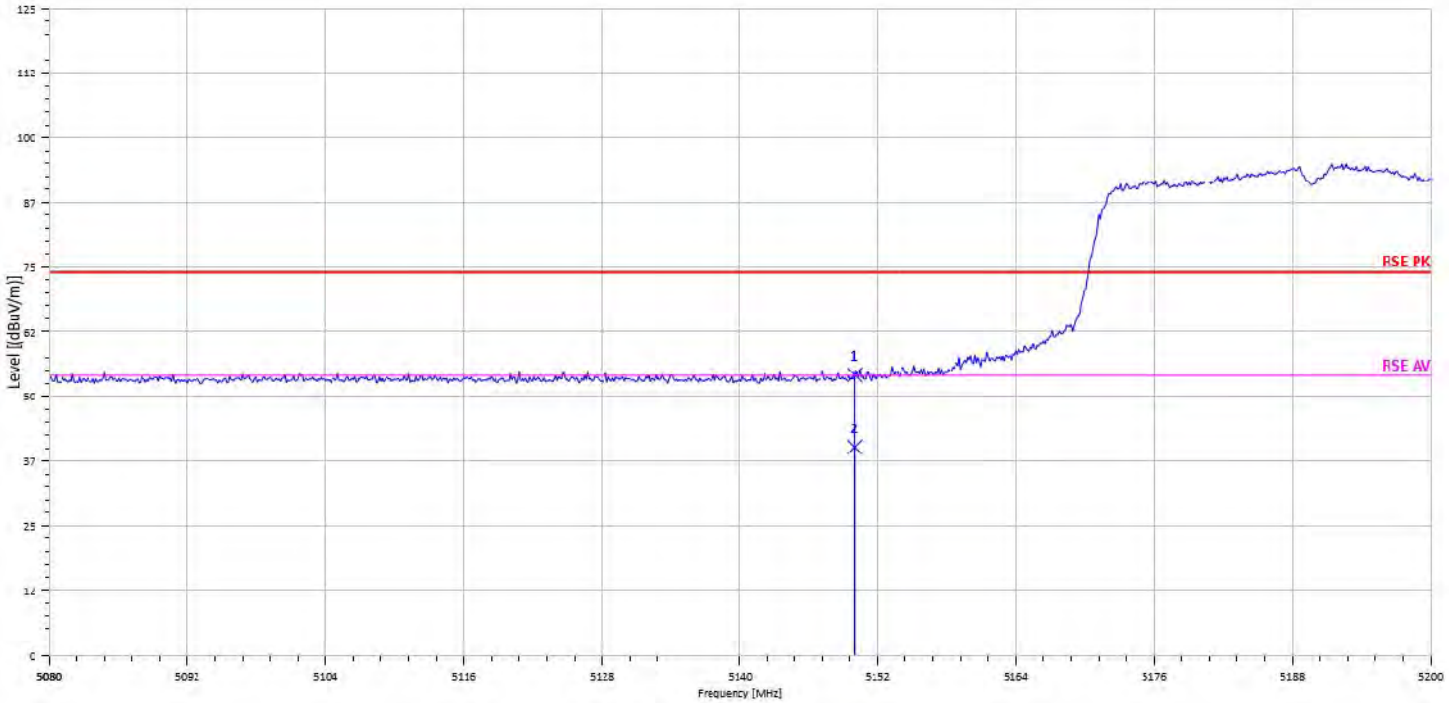
802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	54.34	-0.17	54.17	74	-19.83
5150.00	E	Average	40.37	-0.17	40.20	54	-13.80

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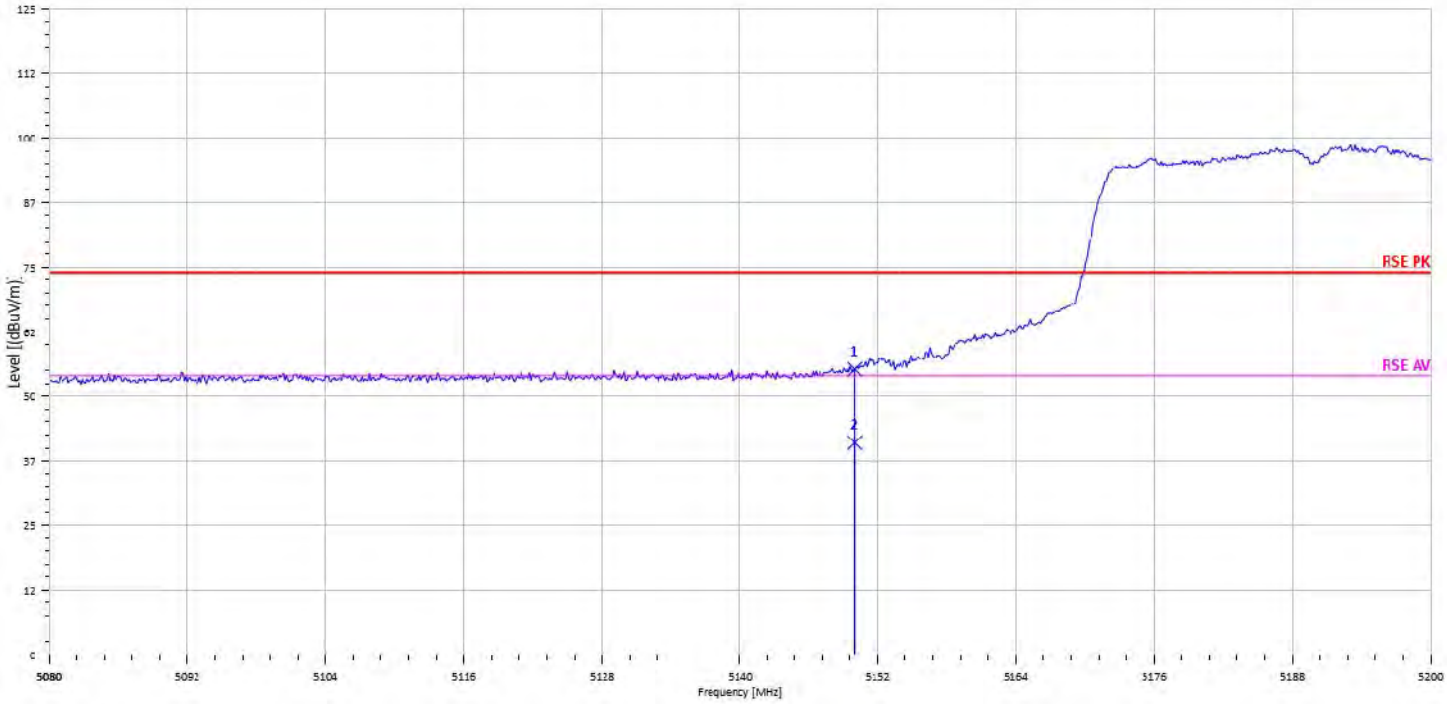
Operation Mode :	802.11n40B1	Test Date :	2018/4/30
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.41	-0.17	55.24	74	-18.76
5150.00	E	Average	41.18	-0.17	41.01	54	-12.99

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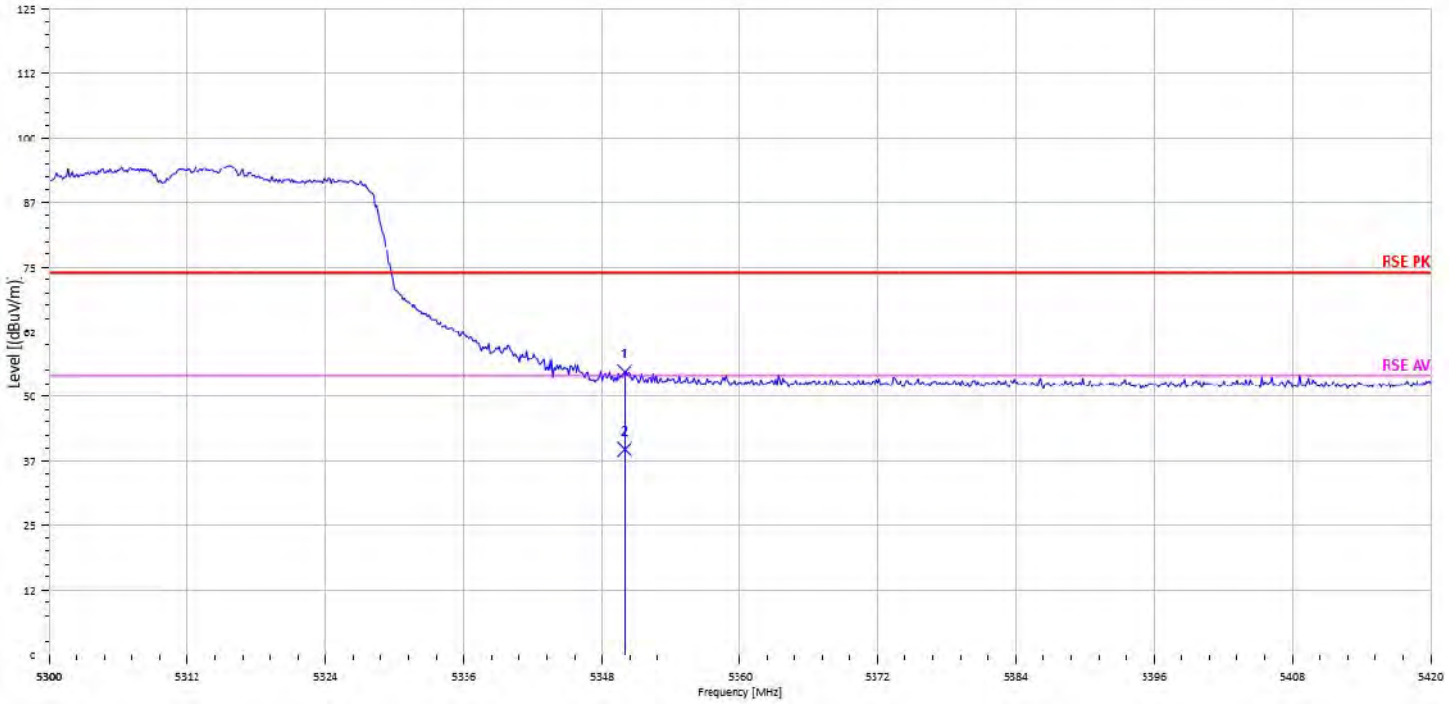
Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	54.84	-0.15	54.68	74	-19.32
5350.00	E	Average	39.85	-0.15	39.70	54	-14.30

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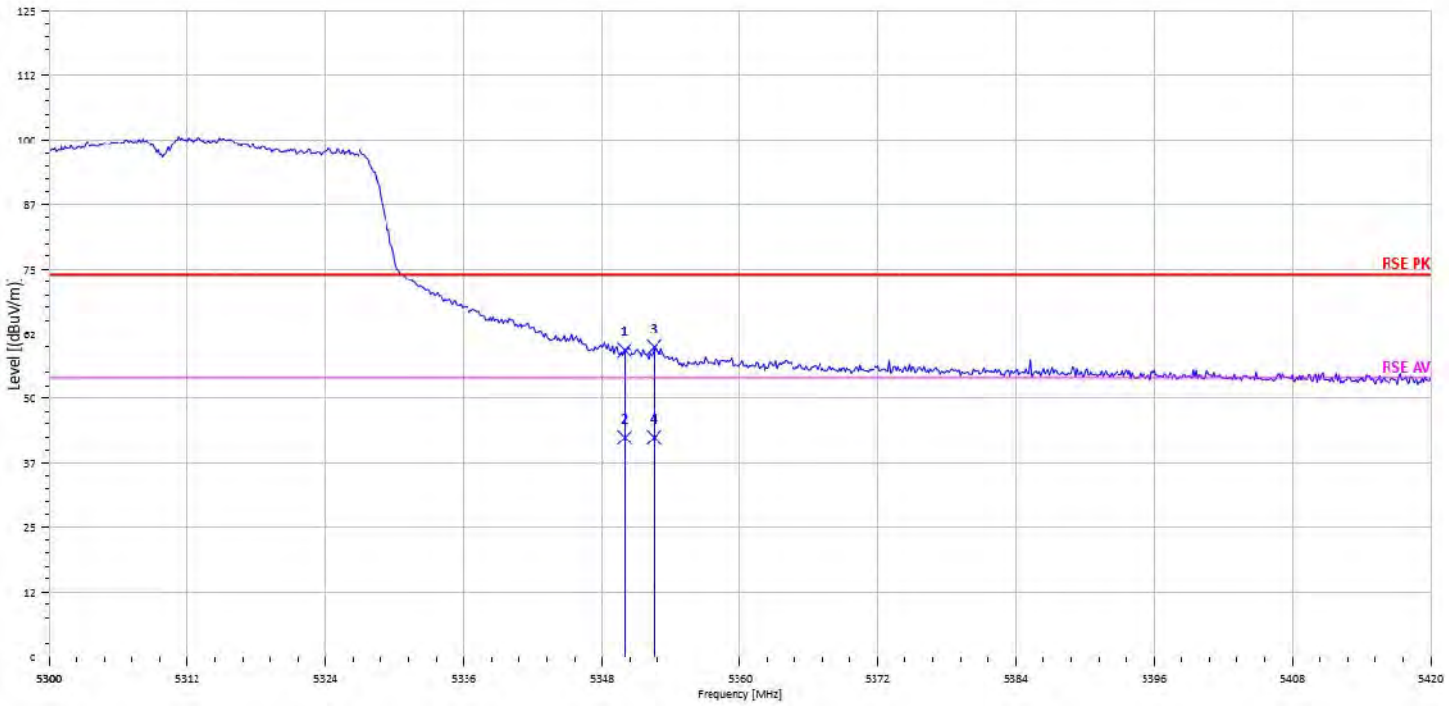
Operation Mode :	802.11n40B2	Test Date :	2018/4/30
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	59.50	-0.15	59.35	74	-14.65
5350.00	E	Average	42.57	-0.15	42.42	54	-11.58
5352.56	S	Peak	60.05	-0.15	59.90	74	-14.10
5352.56	S	Average	42.56	-0.15	42.41	54	-11.59

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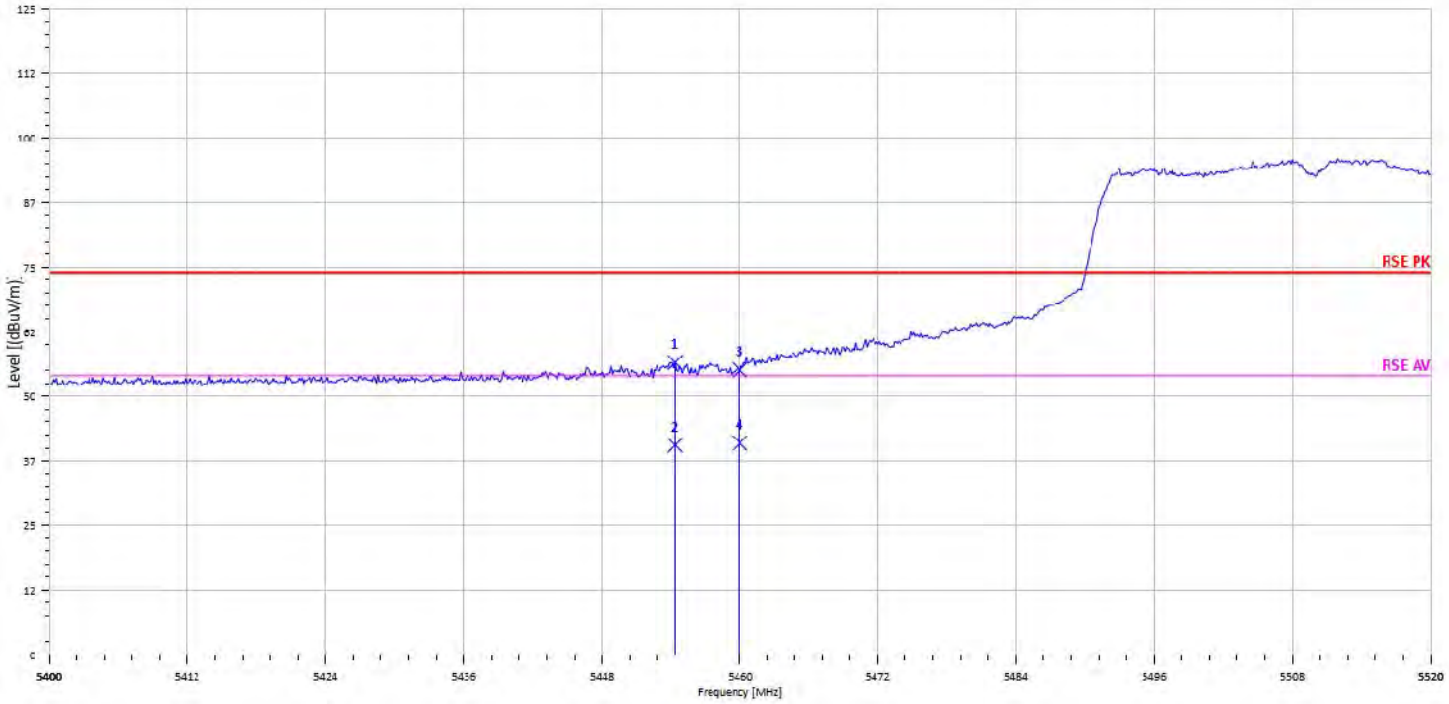
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5454.36	S	Peak	56.49	0.05	56.54	74	-17.46
5454.36	S	Average	40.49	0.05	40.54	54	-13.46
5460.00	E	Peak	55.04	0.06	55.10	74	-18.90
5460.00	E	Average	40.90	0.06	40.95	54	-13.05

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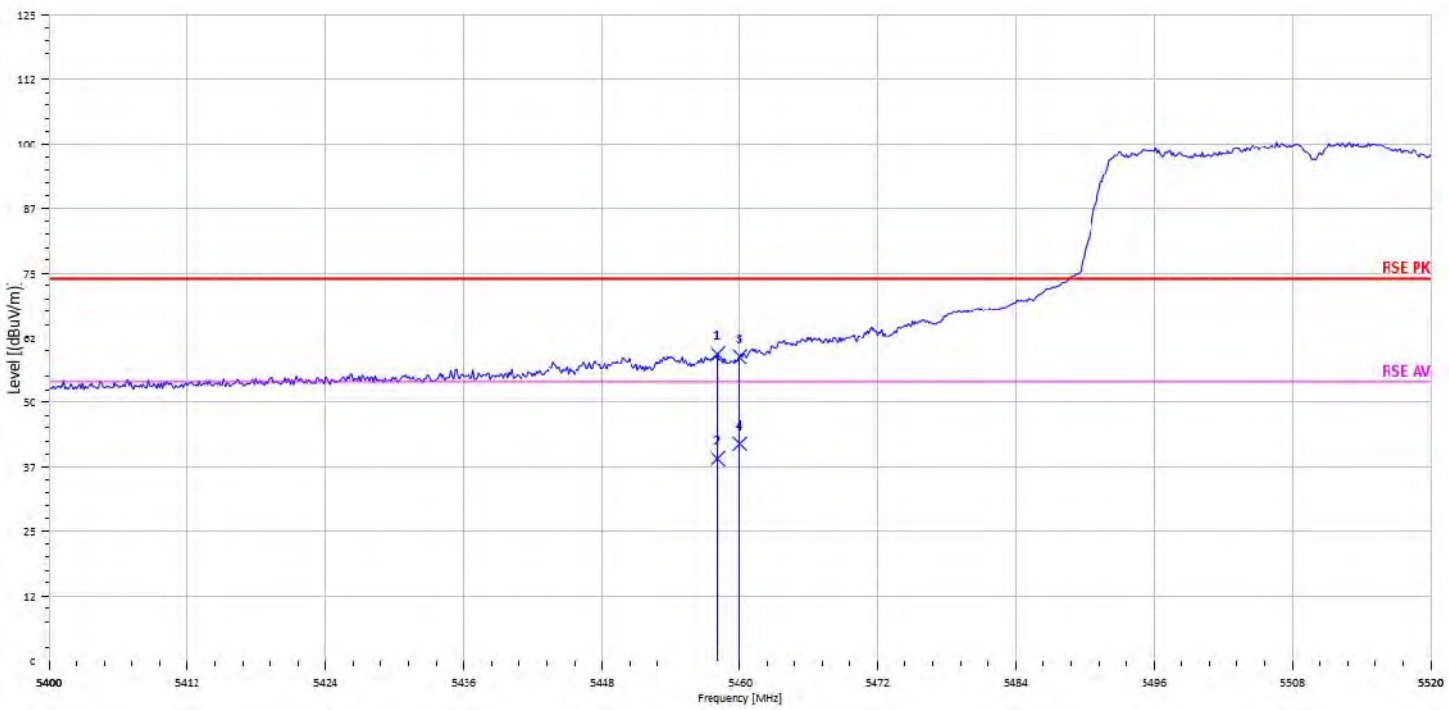
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.08	S	Peak	59.33	0.05	59.39	74	-14.61
5458.08	S	Average	39.03	0.05	39.08	54	-14.92
5460.00	E	Peak	58.75	0.06	58.81	74	-15.19
5460.00	E	Average	41.91	0.06	41.96	54	-12.04

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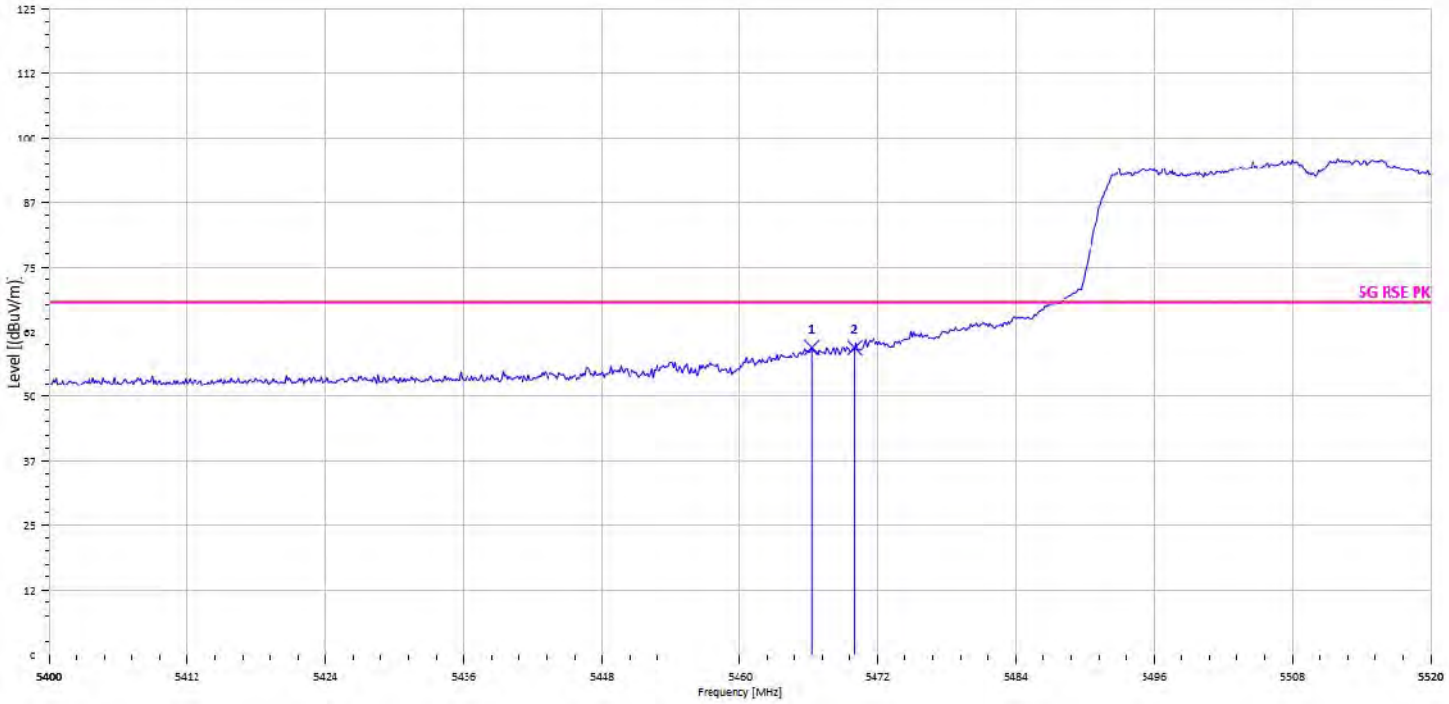
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5466.24	S	Peak	59.40	0.07	59.47	68.3	-8.83
5470.00	E	Peak	59.32	0.08	59.40	68.3	-8.90

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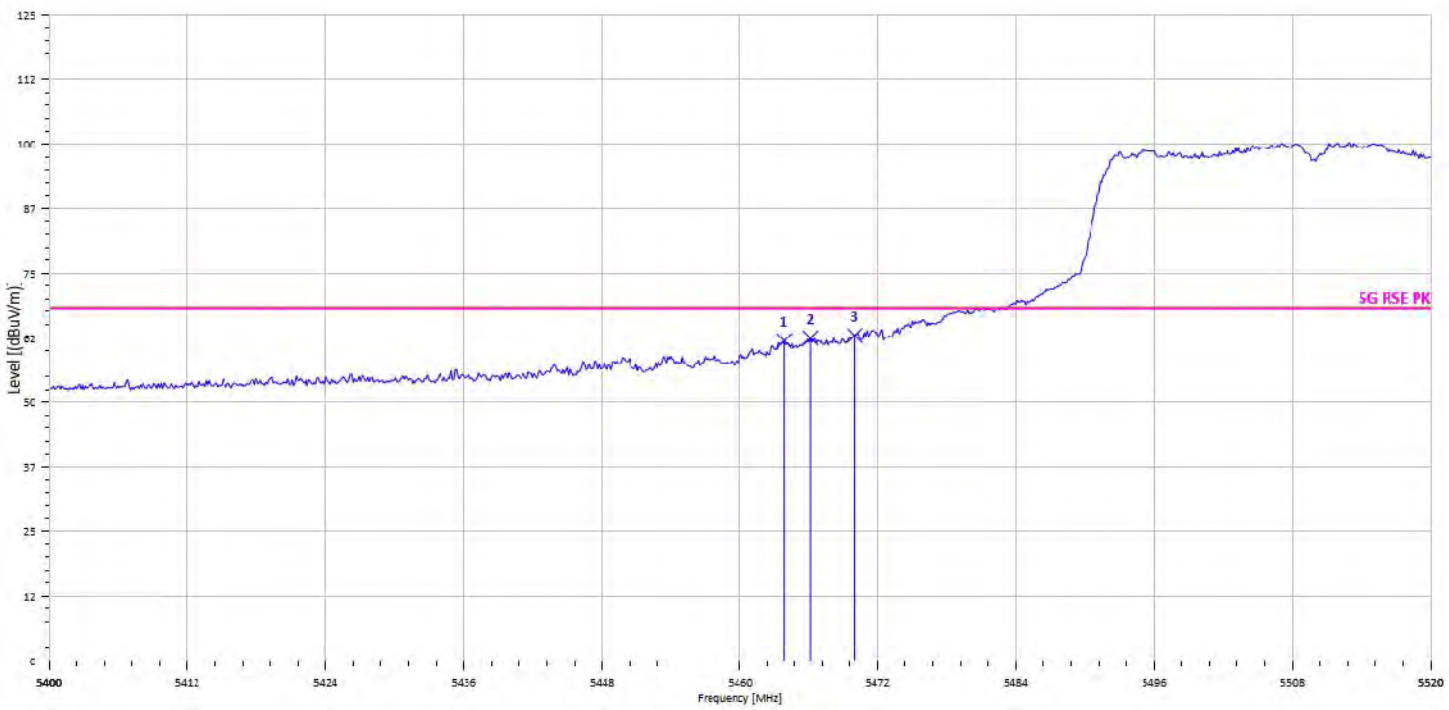
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5463.84	S	Peak	61.85	0.07	61.92	68.3	-6.38
5466.12	S	Peak	62.39	0.07	62.47	68.3	-5.83
5470.00	E	Peak	62.85	0.08	62.93	68.3	-5.37

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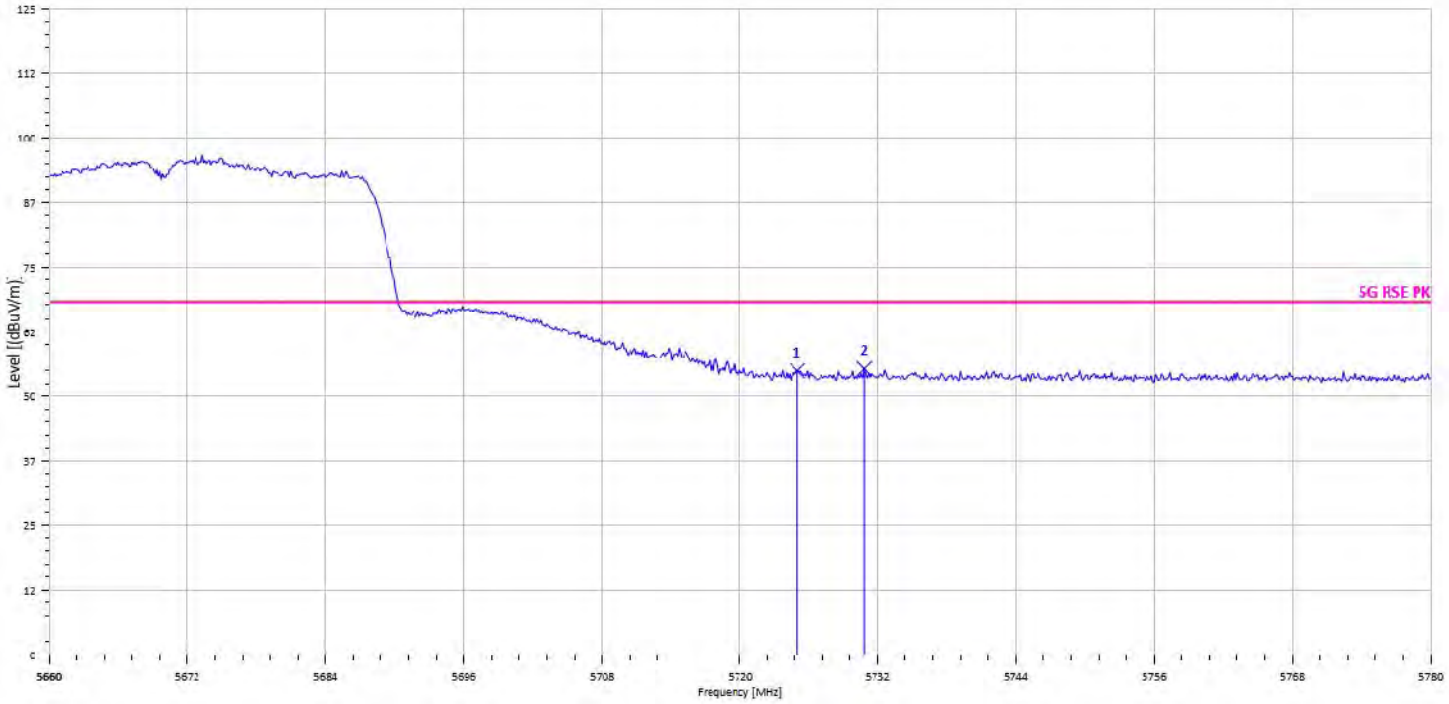
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	54.26	0.69	54.95	68.3	-13.35
5730.80	S	Peak	54.62	0.71	55.33	68.3	-12.97

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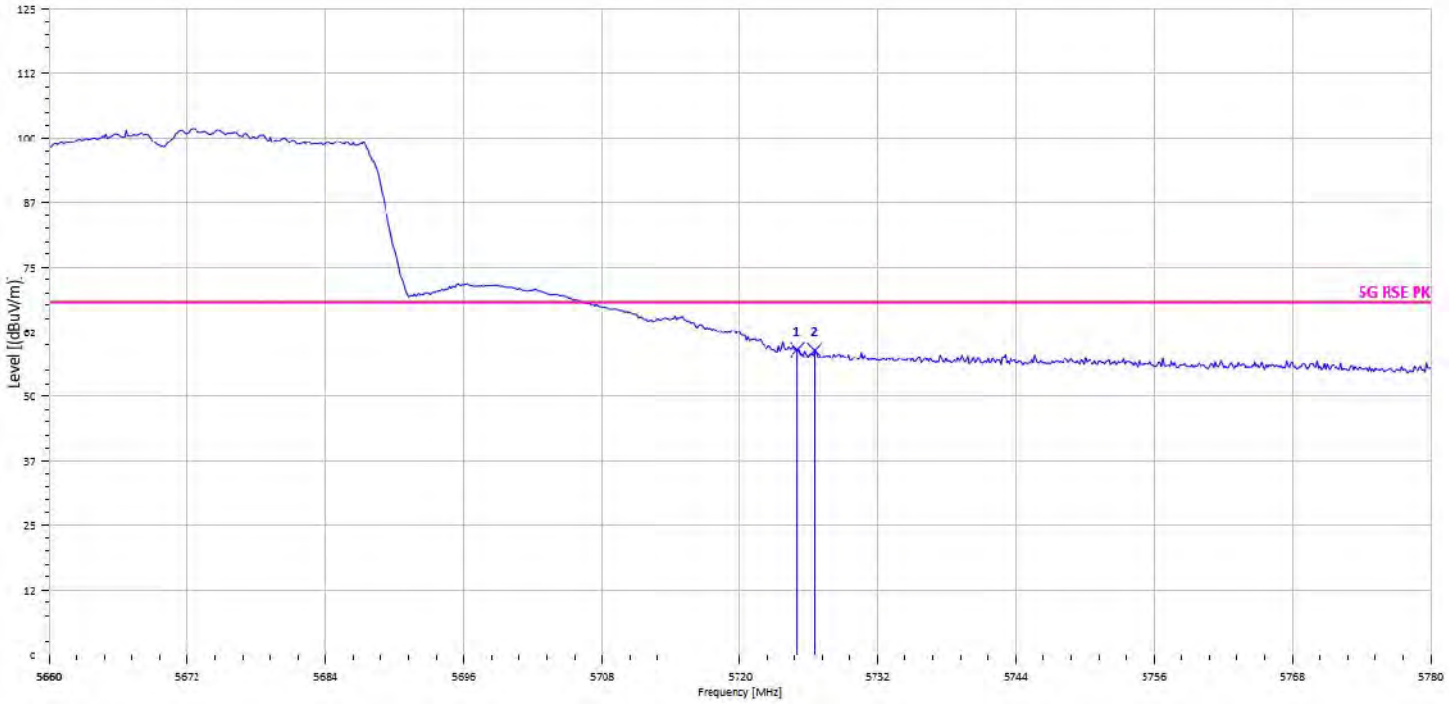
Operation Mode :	802.11n40B3	Test Date :	2018/4/30
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	58.34	0.69	59.03	68.3	-9.27
5726.48	S	Peak	58.25	0.69	58.94	68.3	-9.36

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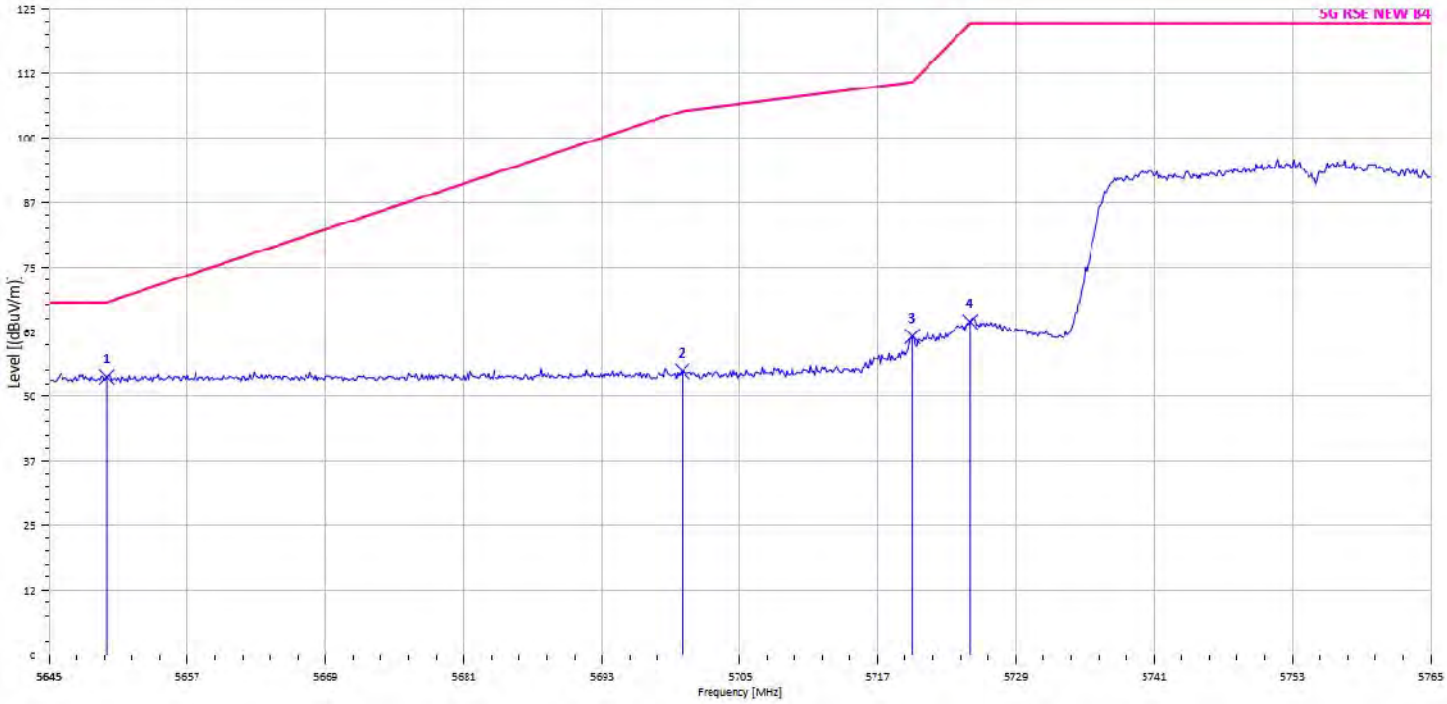
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	53.14	0.63	53.77	68.23	-14.46
5700.00	S	Peak	54.28	0.56	54.84	105.23	-50.39
5720.00	S	Peak	60.96	0.66	61.62	110.83	-49.21
5725.00	E	Peak	63.71	0.69	64.40	122.23	-57.83

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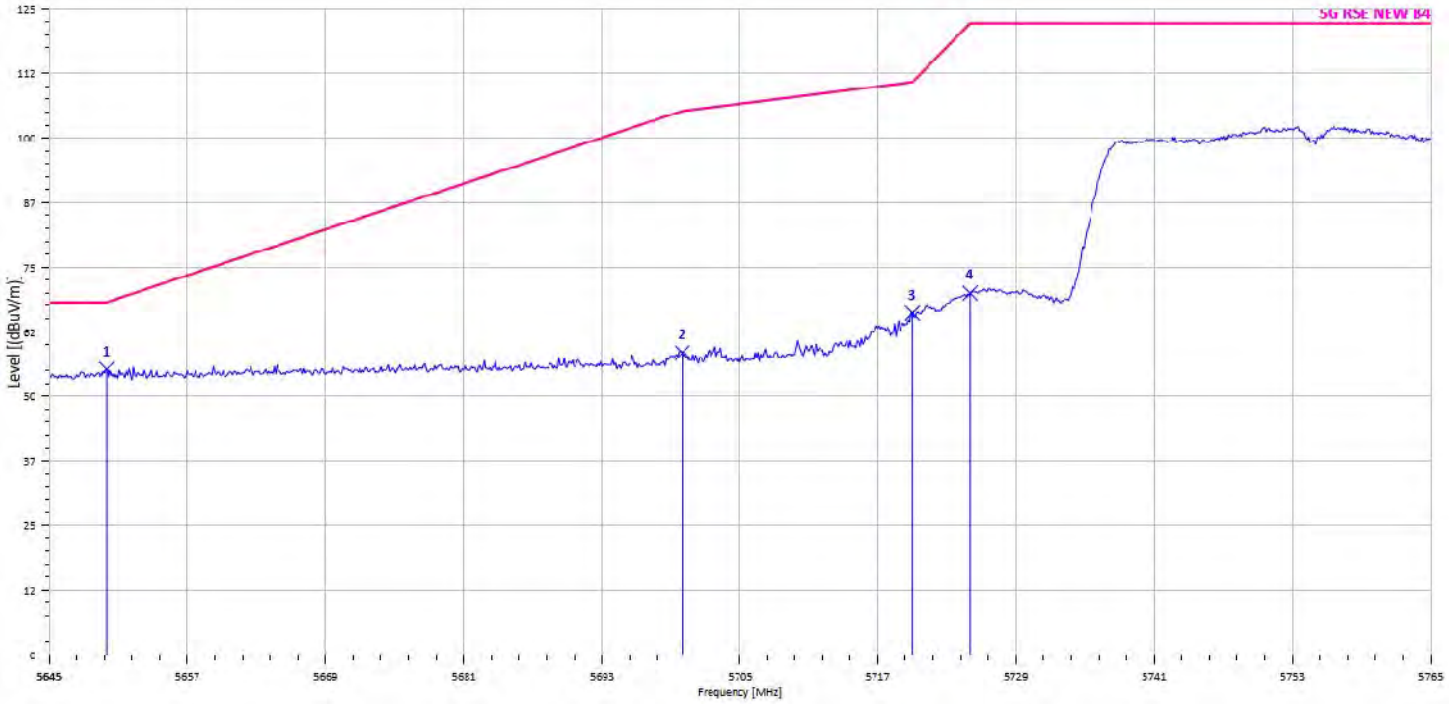
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	54.64	0.63	55.26	68.23	-12.97
5700.00	S	Peak	57.83	0.56	58.39	105.23	-46.84
5720.00	S	Peak	65.42	0.66	66.08	110.83	-44.75
5725.00	E	Peak	69.31	0.69	70.00	122.23	-52.23

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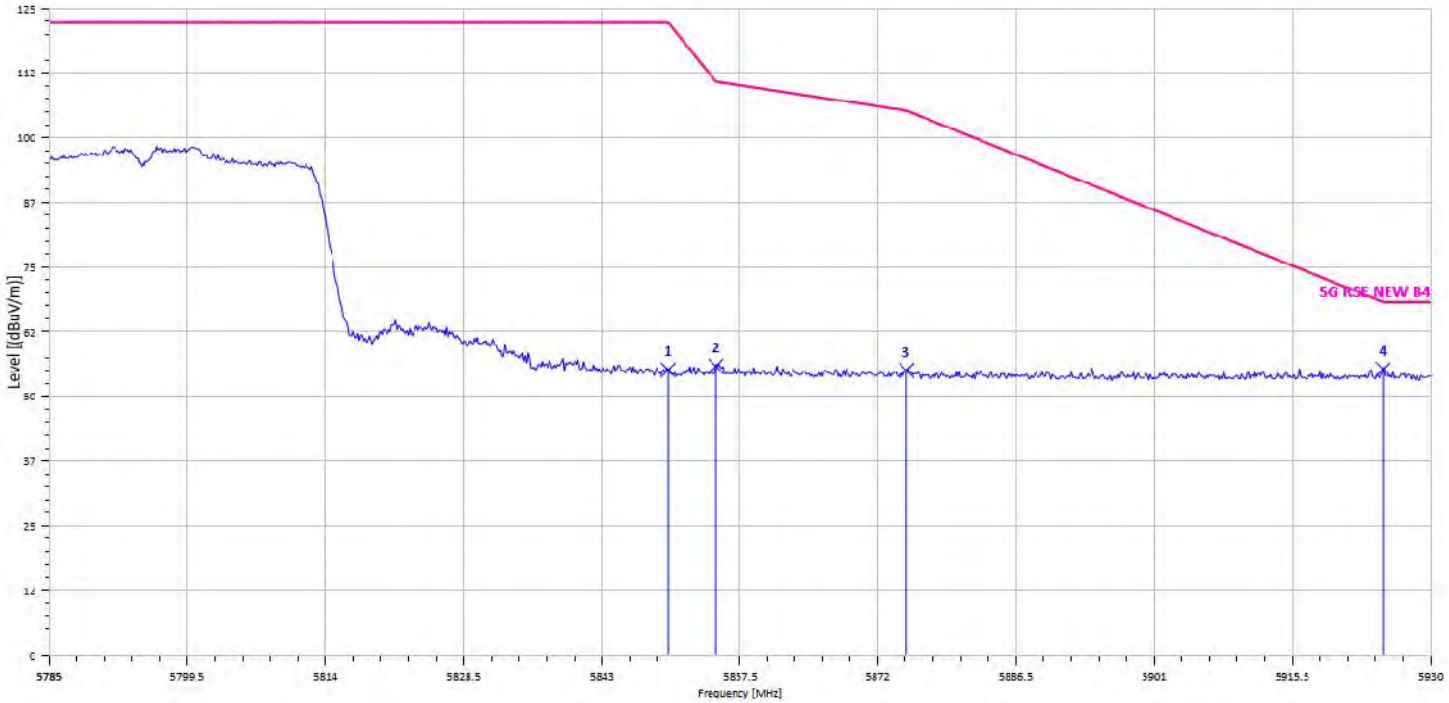
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	54.10	1.01	55.11	122.23	-67.12
5855.00	S	Peak	54.81	1.01	55.82	110.83	-55.01
5875.00	S	Peak	54.03	0.99	55.02	105.23	-50.21
5925.00	S	Peak	54.24	1.04	55.27	68.23	-12.96

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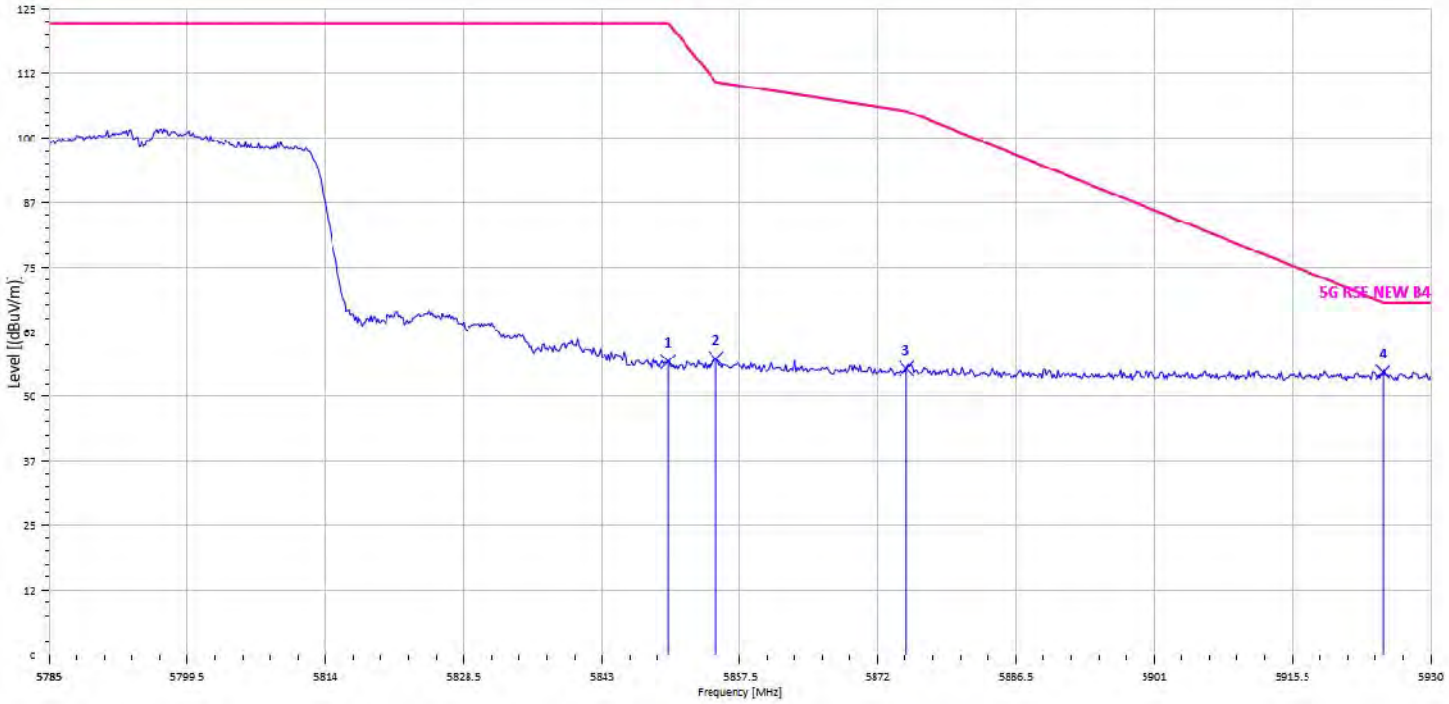
Operation Mode :	802.11n40B4	Test Date :	2018/4/30
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	55.73	1.01	56.74	122.23	-65.49
5855.00	S	Peak	56.25	1.01	57.26	110.83	-53.57
5875.00	S	Peak	54.39	0.99	55.38	105.23	-49.85
5925.00	S	Peak	53.66	1.04	54.70	68.23	-13.53

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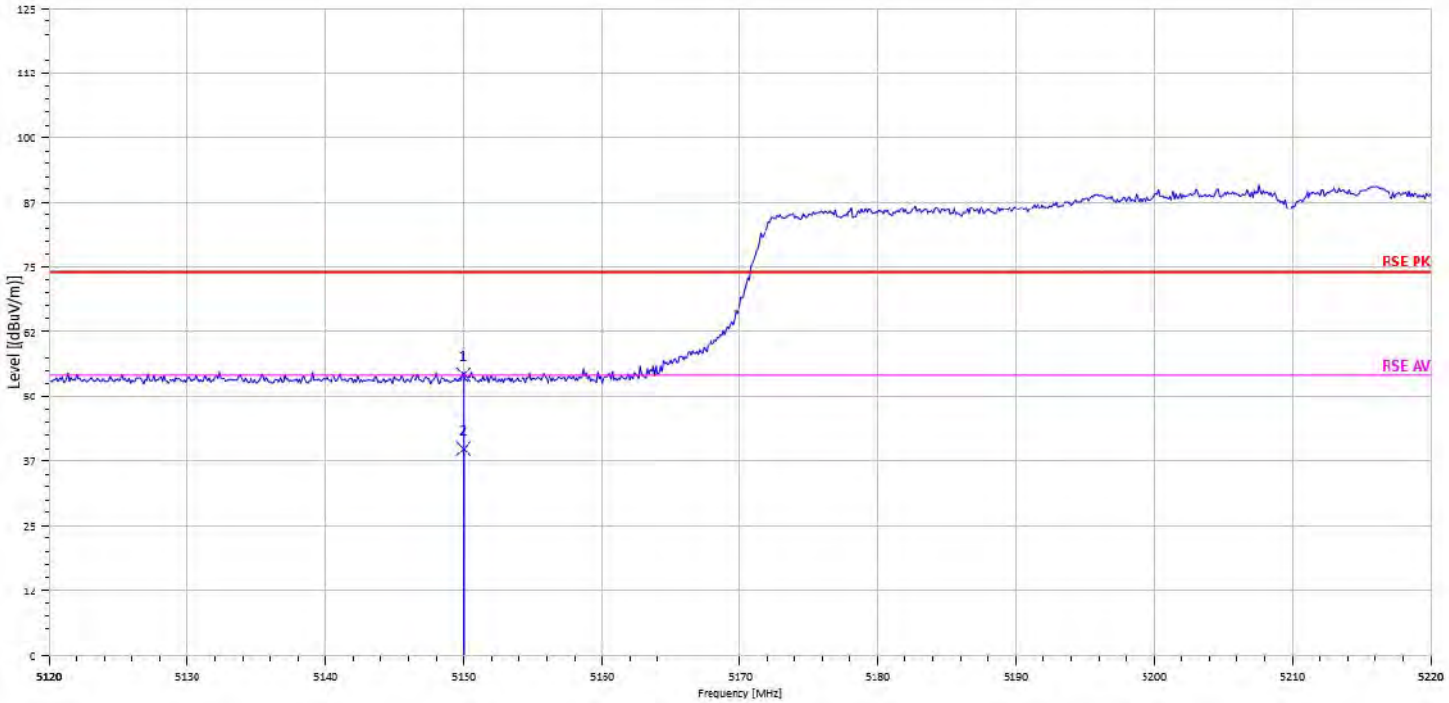
802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2018/4/30
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	54.40	-0.17	54.23	74	-19.77
5150.00	E	Average	40.06	-0.17	39.89	54	-14.11

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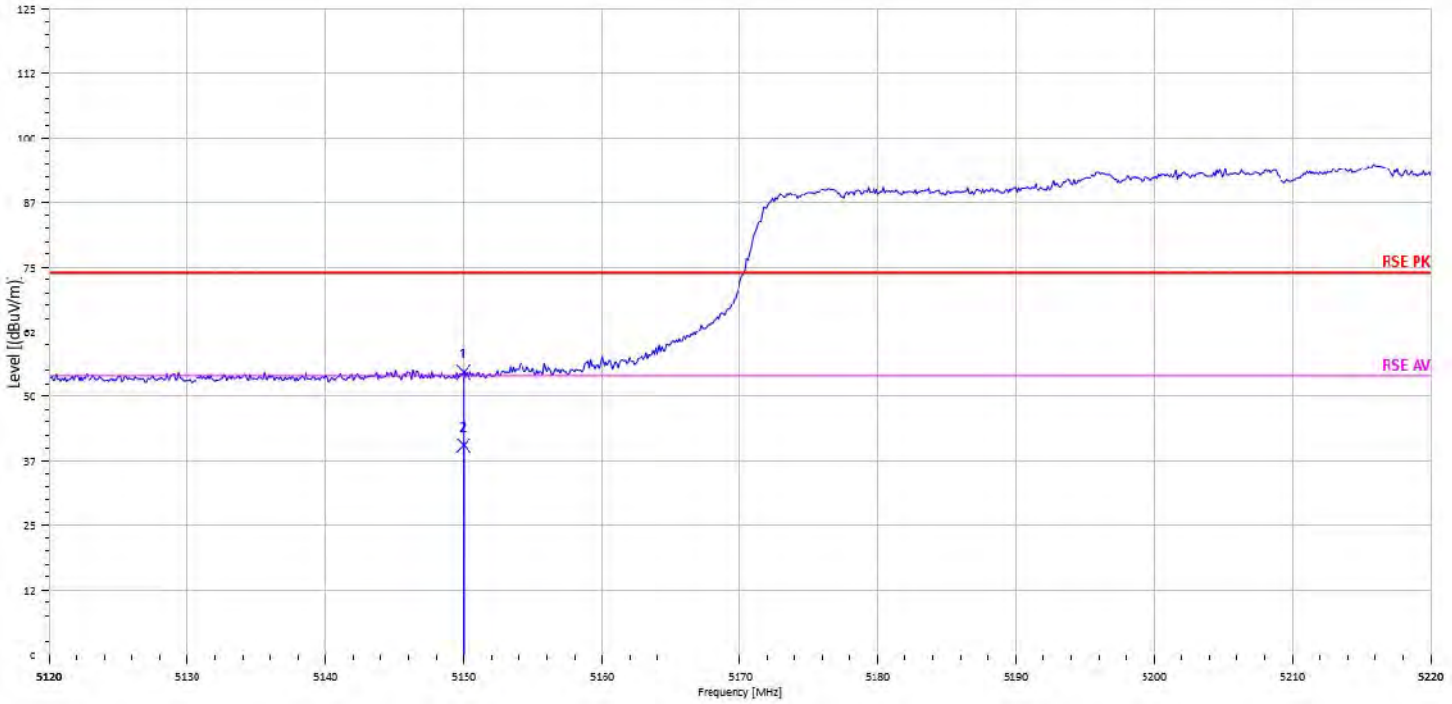
Operation Mode :	802.11ac80B1	Test Date :	2018/4/30
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	54.84	-0.17	54.67	74	-19.33
5150.00	E	Average	40.65	-0.17	40.48	54	-13.52

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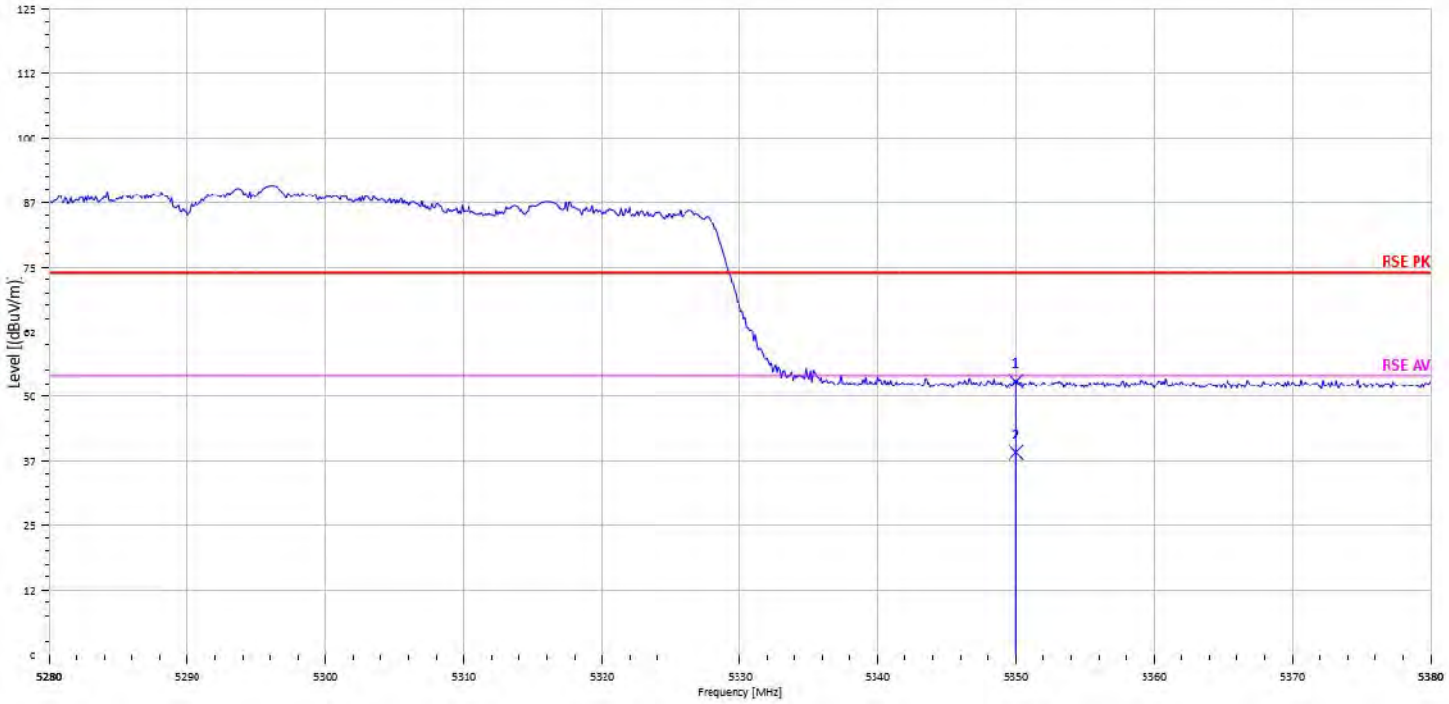
Operation Mode :	802.11ac80B2	Test Date :	2018/4/30
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	53.06	-0.15	52.90	74	-21.10
5350.00	E	Average	39.30	-0.15	39.15	54	-14.85

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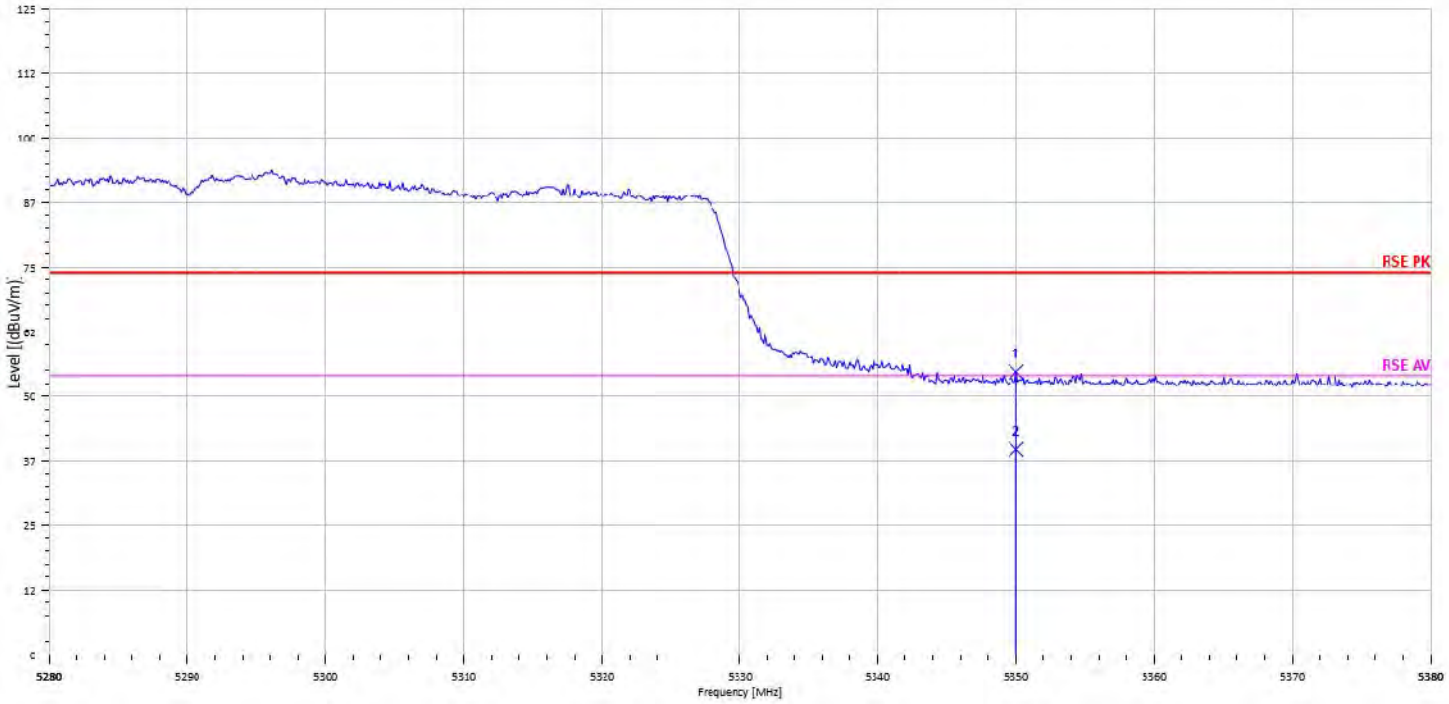
Operation Mode :	802.11ac80B2	Test Date :	2018/4/30
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	54.88	-0.15	54.72	74	-19.28
5350.00	E	Average	39.86	-0.15	39.70	54	-14.30

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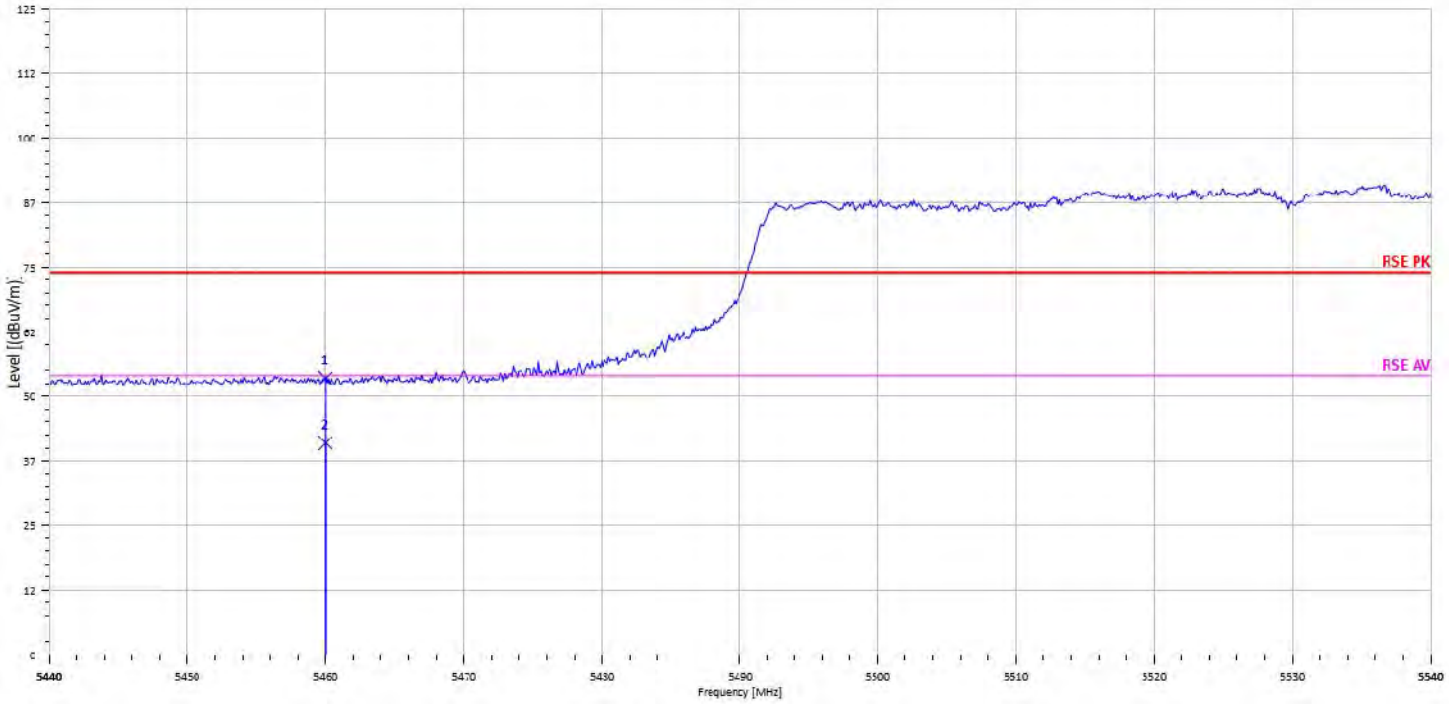
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.42	0.06	53.48	74	-20.52
5460.00	E	Average	40.91	0.06	40.97	54	-13.03

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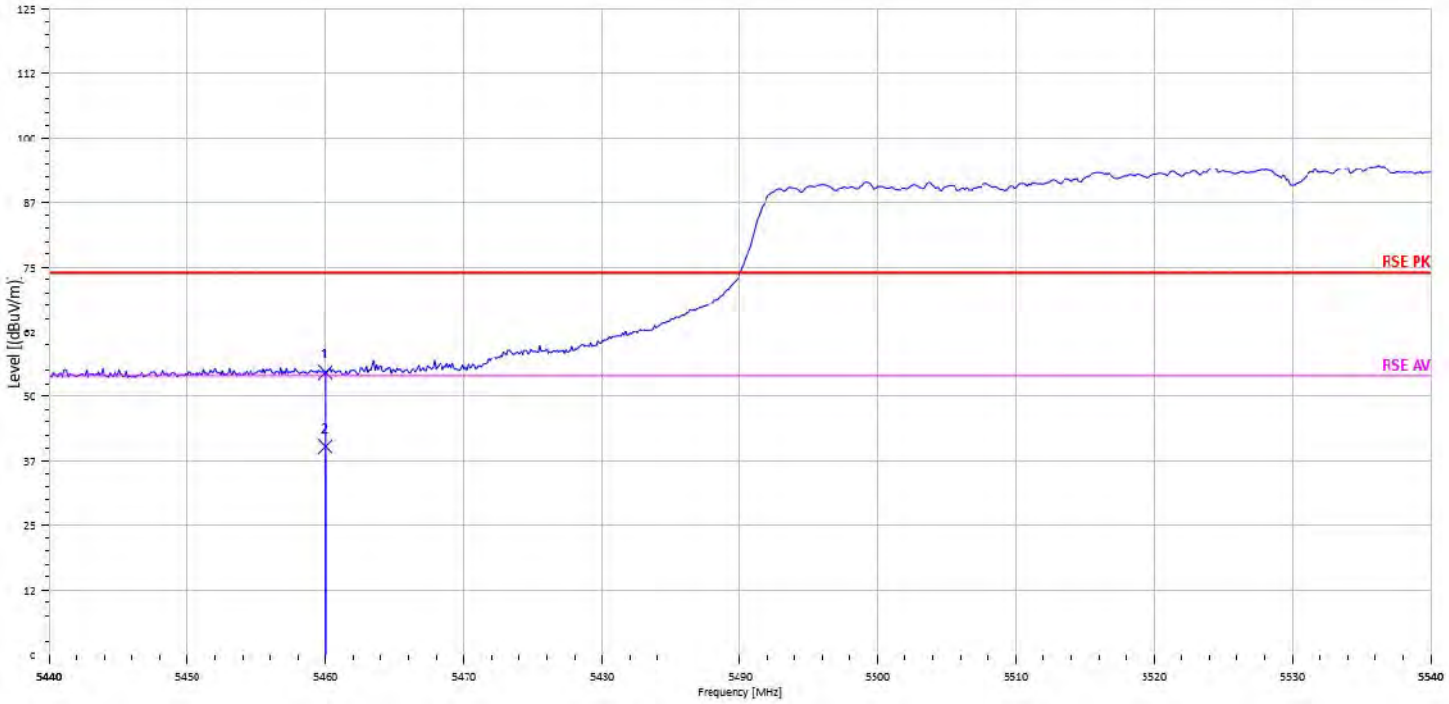
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	54.58	0.06	54.64	74	-19.36
5460.00	E	Average	40.16	0.06	40.21	54	-13.79

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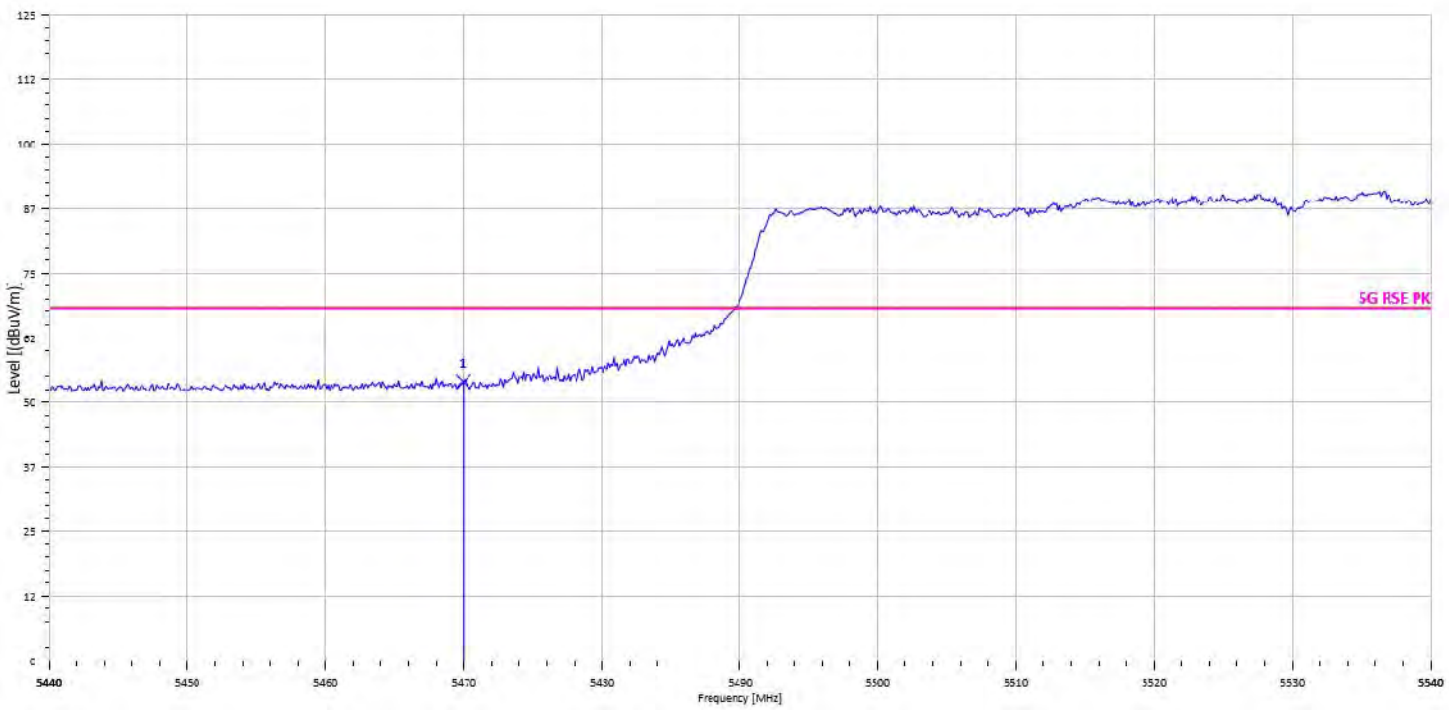
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	53.86	0.08	53.94	68.3	-14.36

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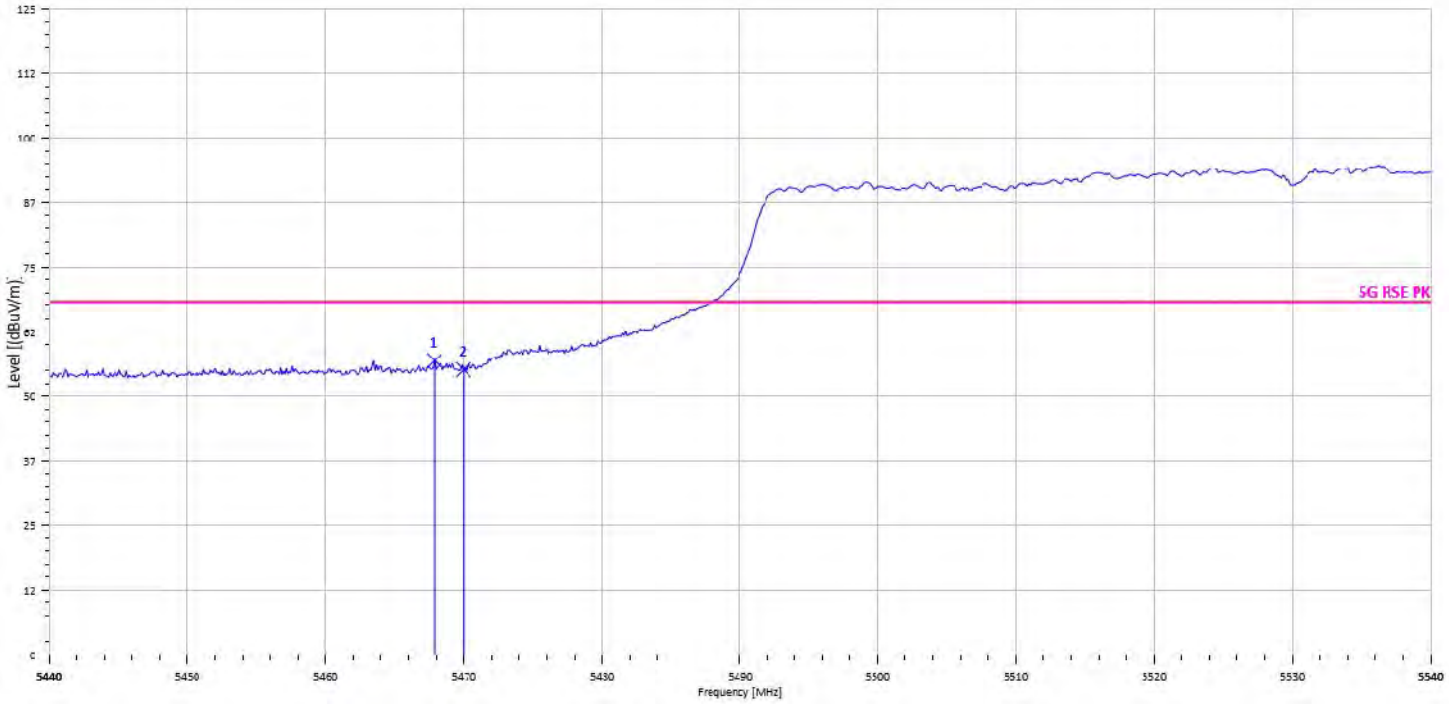
Operation Mode :	802.11ac80B3	Test Date :	2018/4/30
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5467.90	S	Peak	56.86	0.08	56.93	68.3	-11.37
5470.00	E	Peak	55.10	0.08	55.18	68.3	-13.12

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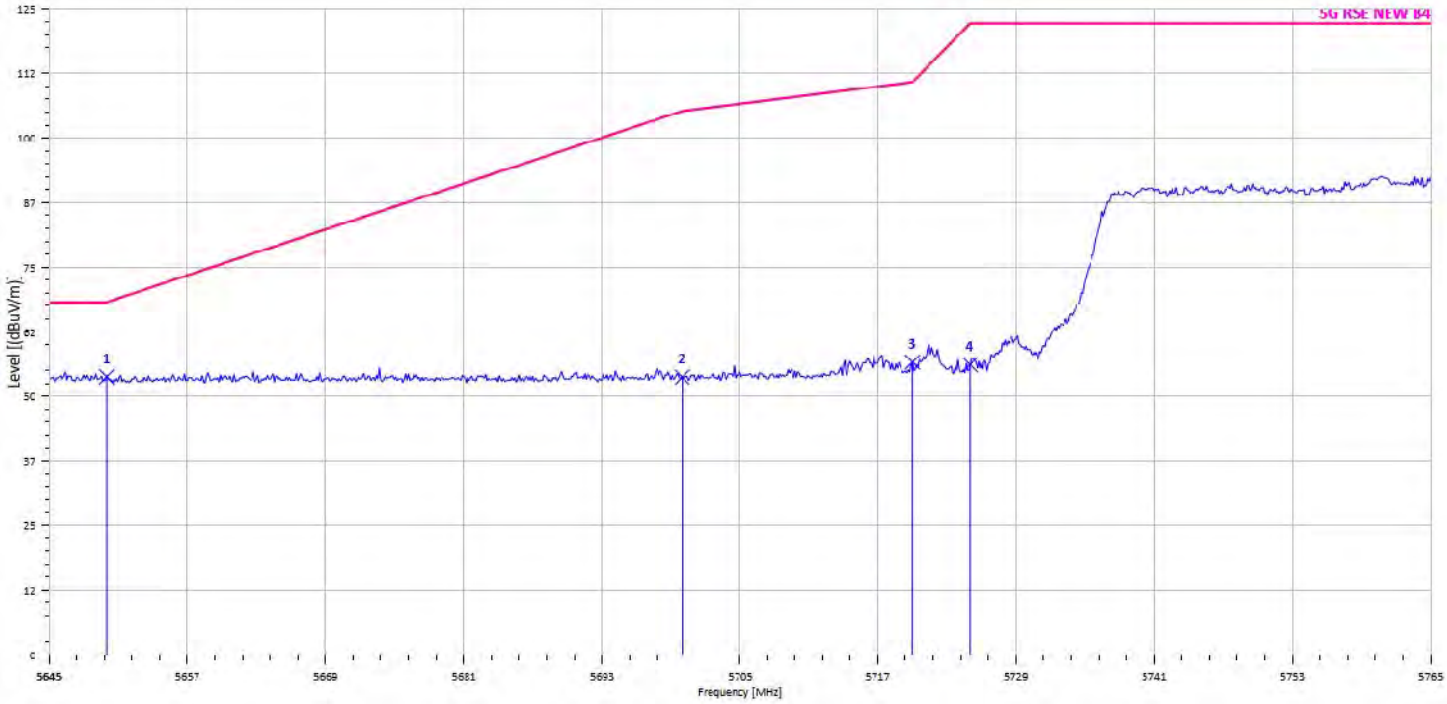
Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	53.17	0.63	53.79	68.23	-14.44
5700.00	S	Peak	53.17	0.56	53.73	105.23	-51.50
5720.00	S	Peak	55.96	0.66	56.62	110.83	-54.21
5725.00	E	Peak	55.46	0.69	56.14	122.23	-66.09

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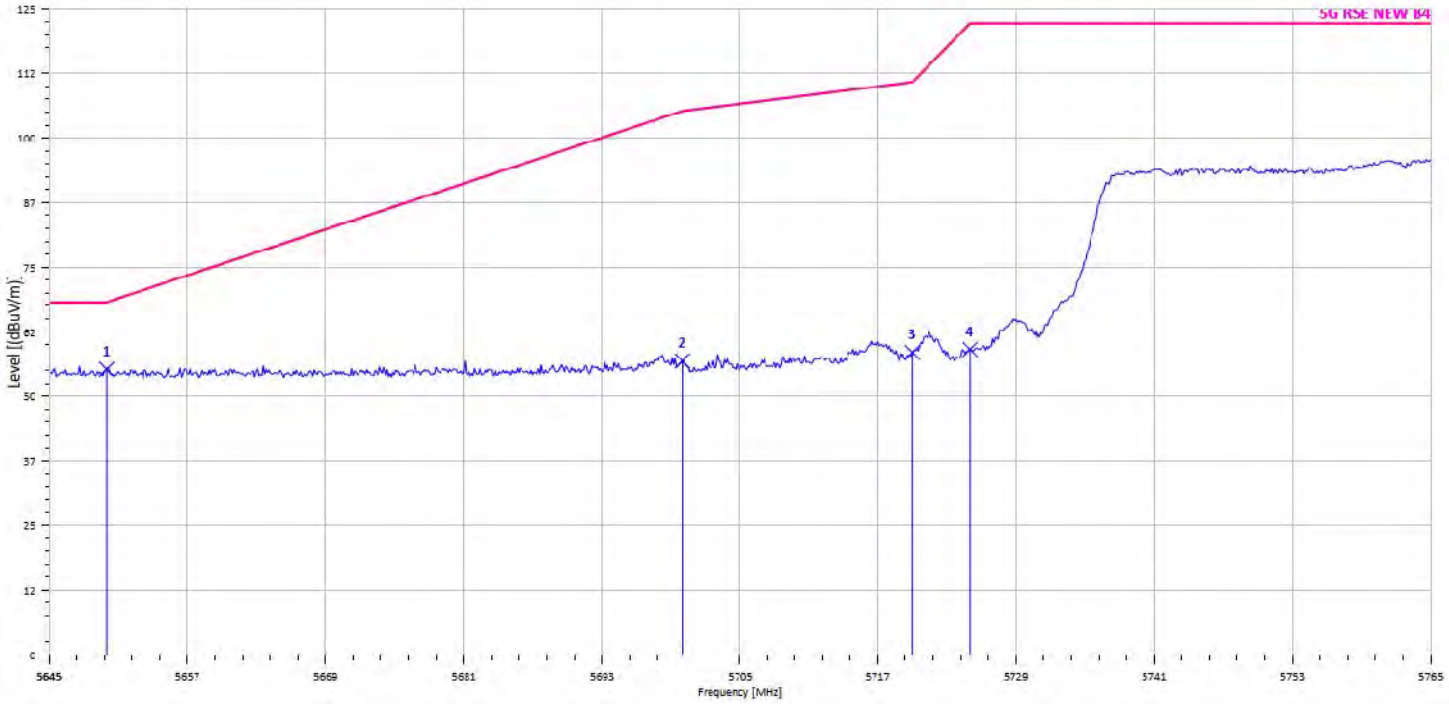
Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	54.61	0.63	55.23	68.23	-13.00
5700.00	S	Peak	56.29	0.56	56.85	105.23	-48.38
5720.00	S	Peak	57.82	0.66	58.48	110.83	-52.35
5725.00	E	Peak	58.38	0.69	59.06	122.23	-63.17

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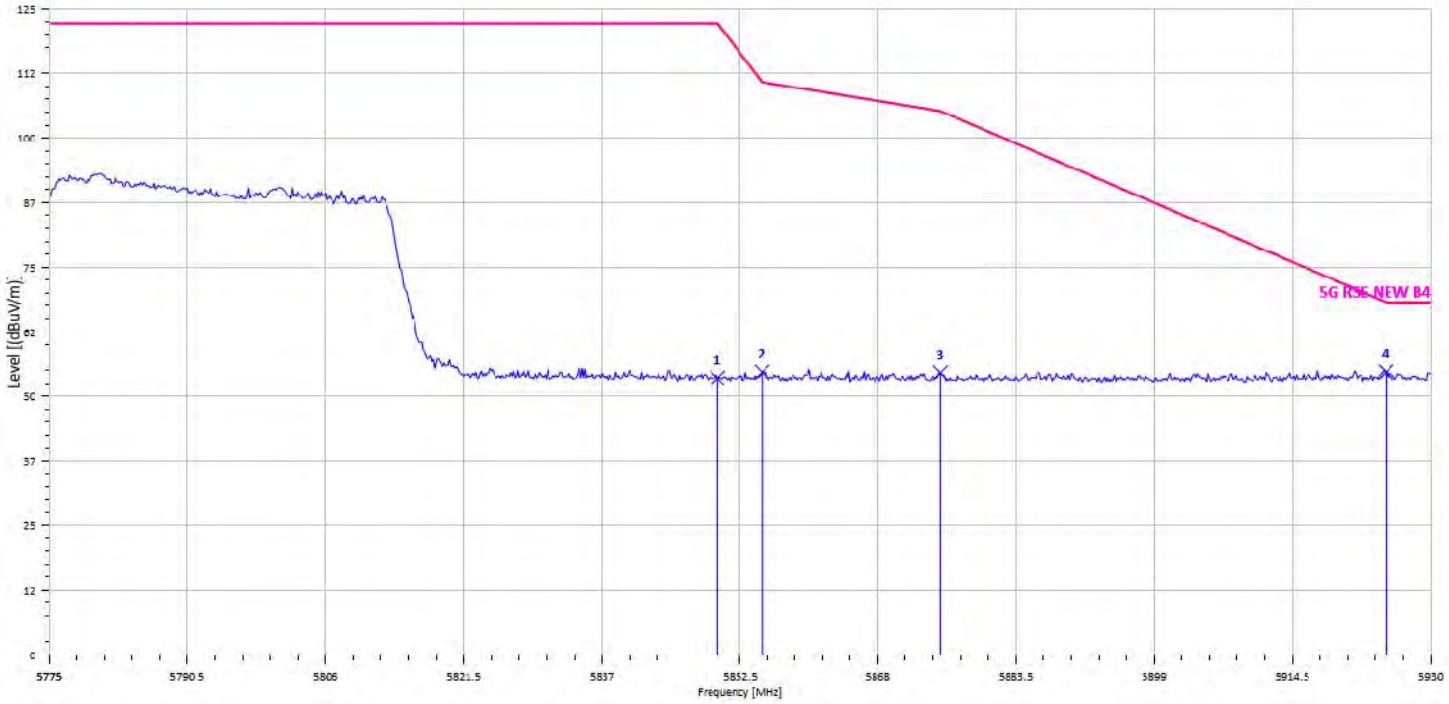
Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	52.48	1.01	53.49	122.23	-68.74
5855.00	S	Peak	53.63	1.01	54.64	110.83	-56.19
5875.00	S	Peak	53.55	0.99	54.53	105.23	-50.70
5925.00	S	Peak	53.65	1.04	54.69	68.23	-13.54

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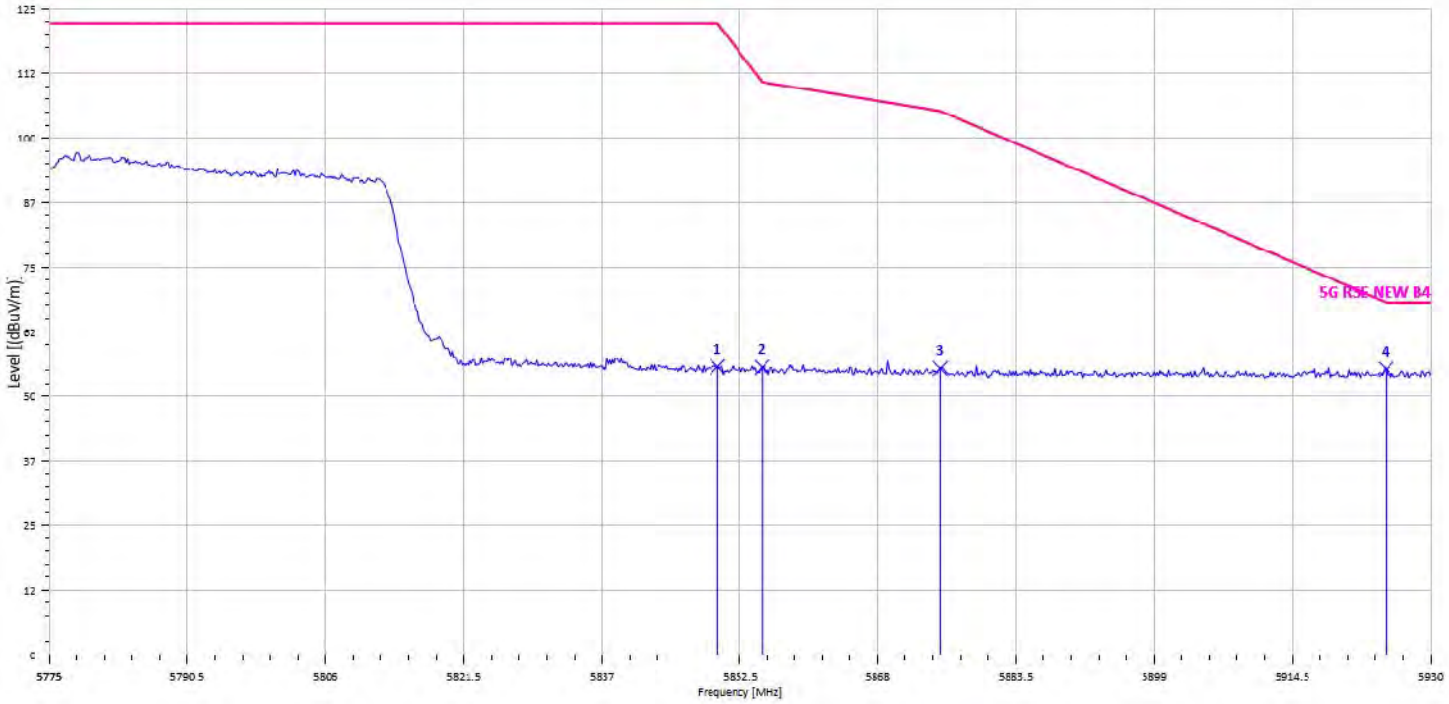
Operation Mode :	802.11ac80B4	Test Date :	2018/4/30
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	54.70	1.01	55.71	122.23	-66.52
5855.00	S	Peak	54.57	1.01	55.58	110.83	-55.25
5875.00	S	Peak	54.38	0.99	55.36	105.23	-49.87
5925.00	S	Peak	54.18	1.04	55.22	68.23	-13.01

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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 a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

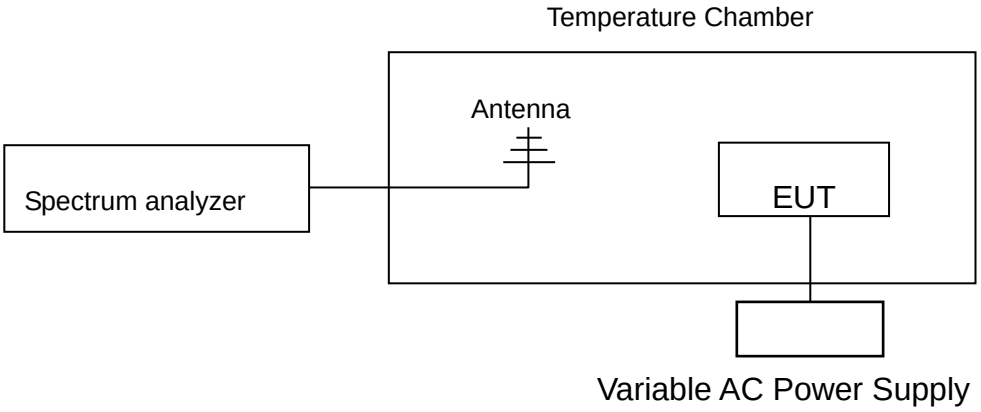
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF31	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF81	2017/12/26	2018/12/25
Notebook	Lenovo	L430	P0000195	N/A	N/A
Temperature Chamber	TERCH Y	MHK-120LK	1020582	2018/01/13	2019/01/02

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291
	11.4V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

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25 ℃	12V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

40 ℃	12.6V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291
	11.4V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.93994	0.00001076
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

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Operation Mode	802.11 n_HT40	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	38	5190	5,189.99916	0.00000016
		46	5230	5,229.99949	0.00000010
		54	5270	5,269.99973	0.00000005
		62	5310	5,309.99980	0.00000004
		102	5510	5,509.99917	0.00000015
		110	5550	5,549.99934	0.00000012
		134	5670	5,669.99920	0.00000014
		142	5710	5,709.99875	0.00000022
		151	5755	5,754.99958	0.00000007
		159	5795	5,794.99966	0.00000006
	6.894V	38	5190	5,189.99914	0.00000017
		46	5230	5,229.99951	0.00000009
		54	5270	5,269.99973	0.00000005
		62	5310	5,309.99917	0.00000016
		102	5510	5,509.99970	0.00000005
		110	5550	5,549.99953	0.00000008
		134	5670	5,669.99940	0.00000011
		142	5710	5,709.99863	0.00000024
		151	5755	5,754.99967	0.00000006
		159	5795	5,794.99919	0.00000014

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25 ℃	7.66V	38	5190	5,189.96868	0.00000603
		46	5230	5,229.98300	0.00000325
		54	5270	5,269.96793	0.00000609
		62	5310	5,310.00000	0.00000000
		102	5510	5,509.99981	0.00000003
		110	5550	5,549.96650	0.00000604
		134	5670	5,670.00000	0.00000000
		142	5710	5,709.99835	0.00000029
		151	5755	5,754.96535	0.00000602
		159	5795	5,794.97953	0.00000353
55 ℃	8.8V	38	5190	5,189.99919	0.00000016
		46	5230	5,229.99981	0.00000004
		54	5270	5,269.99972	0.00000005
		62	5310	5,309.99920	0.00000015
		102	5510	5,509.99938	0.00000011
		110	5550	5,549.99965	0.00000006
		134	5670	5,669.99956	0.00000008
		142	5710	5,709.99841	0.00000028
		151	5755	5,754.99937	0.00000011
		159	5795	5,794.99915	0.00000015
	6.894V	38	5190	5,189.99913	0.00000017
		46	5230	5,229.99951	0.00000009
		54	5270	5,269.99916	0.00000016
		62	5310	5,309.99947	0.00000010
		102	5510	5,509.99985	0.00000003
		110	5550	5,549.99913	0.00000016
		134	5670	5,669.99977	0.00000004
		142	5710	5,709.99836	0.00000029
		151	5755	5,754.99928	0.00000013
		159	5795	5,794.99987	0.00000002

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Operation Mode	802.11 ac_VHT80	Test Date	2018.02.23
Temperature	:20 ℃	Test By	Henry
Humidity	:57 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	8.8V	42	5210	5,209.99931	0.00000013
		58	5290	5,289.99968	0.00000006
		106	5530	5,529.99993	0.00000001
		122	5610	5,609.99927	0.00000013
		138	5690	5,689.99925	0.00000013
		155	5775	5,774.99945	0.00000010
	6.894V	42	5210	5,209.99984	0.00000003
		58	5290	5,289.99958	0.00000008
		106	5530	5,529.99925	0.00000014
		122	5610	5,609.99937	0.00000011
		138	5690	5,689.99935	0.00000011
		155	5775	5,774.99916	0.00000015
25 ℃	7.66V	42	5210	5,210.00000	0.00000000
		58	5290	5,289.96805	0.00000604
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.10000	-0.00001783
		138	5690	5,689.99949	0.00000009
		155	5775	5,774.96500	0.00000606
55 ℃	8.8V	42	5210	5,209.99941	0.00000011
		58	5290	5,289.99915	0.00000016
		106	5530	5,529.99997	0.00000001
		122	5610	5,609.99952	0.00000009
		138	5690	5,689.99958	0.00000007
		155	5775	5,774.99910	0.00000016
	6.894V	42	5210	5,209.99981	0.00000004
		58	5290	5,289.99981	0.00000004
		106	5530	5,529.99951	0.00000009
		122	5610	5,609.99978	0.00000004
		138	5690	5,689.99967	0.00000006
		155	5775	5,774.99915	0.00000015

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	36	5180	5,179.93977	0.00001163
		44	5220	5,219.97188	0.00000539
		48	5240	5,239.98155	0.00000352
		52	5260	5,259.97127	0.00000546
		60	5300	5,299.93013	0.00001318
		64	5320	5,319.90985	0.00001695
		100	5500	5,499.99698	0.00000055
		116	5580	5,579.90366	0.00001727
		140	5700	5,699.96162	0.00000673
		149	5745	5,744.94483	0.00000960
		157	5785	5,784.92411	0.00001312
		165	5825	5,824.93588	0.00001101
	11.4V	36	5180	5,179.91009	0.00001736
		44	5220	5,219.90500	0.00001820
		48	5240	5,239.93565	0.00001228
		52	5260	5,259.98054	0.00000370
		60	5300	5,299.99483	0.00000098
		64	5320	5,319.96297	0.00000696
		100	5500	5,499.94099	0.00001073
		116	5580	5,579.90144	0.00001766
		140	5700	5,699.96248	0.00000658
		149	5745	5,744.96126	0.00000674
		157	5785	5,784.90914	0.00001571
		165	5825	5,824.95728	0.00000733

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25 ℃	12V	36	5180	5,179.99184	0.00000158
		44	5220	5,219.96120	0.00000743
		48	5240	5,239.92372	0.00001456
		52	5260	5,259.96161	0.00000730
		60	5300	5,299.96694	0.00000624
		64	5320	5,319.90739	0.00001741
		100	5500	5,499.98239	0.00000320
		116	5580	5,579.98091	0.00000342
		140	5700	5,699.97356	0.00000464
		149	5745	5,744.98560	0.00000251
		157	5785	5,784.98775	0.00000212
		165	5825	5,824.90048	0.00001708

40 ℃	12.6V	36	5180	5,179.93104	0.00001331
		44	5220	5,219.94079	0.00001134
		48	5240	5,239.91580	0.00001607
		52	5260	5,259.98598	0.00000267
		60	5300	5,299.94110	0.00001111
		64	5320	5,319.90326	0.00001818
		100	5500	5,499.97017	0.00000542
		116	5580	5,579.96885	0.00000558
		140	5700	5,699.94951	0.00000886
		149	5745	5,744.94289	0.00000994
		157	5785	5,784.97181	0.00000487
		165	5825	5,824.94923	0.00000872
	11.4V	36	5180	5,179.91760	0.00001591
		44	5220	5,219.96839	0.00000606
		48	5240	5,239.97349	0.00000506
		52	5260	5,259.90425	0.00001820
		60	5300	5,299.94340	0.00001068
		64	5320	5,319.98444	0.00000292
		100	5500	5,499.98474	0.00000277
		116	5580	5,579.99267	0.00000131
		140	5700	5,699.97771	0.00000391
		149	5745	5,744.99553	0.00000078
		157	5785	5,784.99771	0.00000040
		165	5825	5,824.94072	0.00001018

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Operation Mode	802.11 n_HT40	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	38	5190	5,189.98228	0.00000341
		46	5230	5,229.95213	0.00000915
		54	5270	5,269.90248	0.00001850
		62	5310	5,309.92999	0.00001318
		102	5510	5,509.96403	0.00000653
		110	5550	5,549.98167	0.00000330
		134	5670	5,669.94179	0.00001027
		151	5755	5,754.92749	0.00001260
		159	5795	5,794.98793	0.00000208
	11.4V	38	5190	5,189.91093	0.00001716
		46	5230	5,229.90219	0.00001870
		54	5270	5,269.92137	0.00001492
		62	5310	5,309.93704	0.00001186
		102	5510	5,509.92879	0.00001292
		110	5550	5,549.90947	0.00001631
		134	5670	5,669.96294	0.00000654
		151	5755	5,754.97875	0.00000369
		159	5795	5,794.93497	0.00001122

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25 ℃	12V	38	5190	5,189.94403	0.00001078
		46	5230	5,229.90715	0.00001775
		54	5270	5,269.95720	0.00000812
		62	5310	5,309.94179	0.00001096
		102	5510	5,509.92343	0.00001390
		110	5550	5,549.95289	0.00000849
		134	5670	5,669.98950	0.00000185
		151	5755	5,754.96108	0.00000676
		159	5795	5,794.96848	0.00000544
40 ℃	12.6V	38	5190	5,189.90785	0.00001776
		46	5230	5,229.99212	0.00000151
		54	5270	5,269.97974	0.00000384
		62	5310	5,309.95849	0.00000782
		102	5510	5,509.98565	0.00000260
		110	5550	5,549.93011	0.00001259
		134	5670	5,669.95968	0.00000711
		151	5755	5,754.94642	0.00000931
		159	5795	5,794.97164	0.00000489
	11.4V	38	5190	5,189.98168	0.00000353
		46	5230	5,229.96107	0.00000744
		54	5270	5,269.96141	0.00000732
		62	5310	5,309.92242	0.00001461
		102	5510	5,509.91860	0.00001477
		110	5550	5,549.94621	0.00000969
		134	5670	5,669.97048	0.00000521
		151	5755	5,754.90070	0.00001725
		159	5795	5,794.90718	0.00001602

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	42	5210	5,209.96120	0.00000745
		58	5290	5,289.95220	0.00000904
		106	5530	5,529.92021	0.00001443
		122	5610	5,609.90176	0.00001751
		155	5775	5,774.98277	0.00000298
	11.4V	42	5210	5,209.93485	0.00001250
		58	5290	5,289.94061	0.00001123
		106	5530	5,529.97485	0.00000455
		122	5610	5,609.98241	0.00000314
		155	5775	5,774.98440	0.00000270
25 ℃	12V	42	5210	5,209.91375	0.00001655
		58	5290	5,289.95394	0.00000871
		106	5530	5,529.92636	0.00001332
		122	5610	5,609.99108	0.00000159
		155	5775	5,774.99184	0.00000141
40 ℃	12.6V	42	5210	5,209.91780	0.00001578
		58	5290	5,289.91639	0.00001581
		106	5530	5,529.97387	0.00000473
		122	5610	5,609.91990	0.00001428
		155	5775	5,774.96120	0.00000672
	11.4V	42	5210	5,209.96954	0.00000585
		58	5290	5,289.99974	0.00000005
		106	5530	5,529.98698	0.00000235
		122	5610	5,609.99070	0.00000166
		155	5775	5,774.93900	0.00001056

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	36	5180	5,179.90956	0.00001746
		44	5220	5,219.97787	0.00000424
		48	5240	5,239.99031	0.00000185
		52	5260	5,259.93796	0.00001179
		60	5300	5,299.97601	0.00000453
		64	5320	5,319.98112	0.00000355
		100	5500	5,499.91957	0.00001462
		116	5580	5,579.98716	0.00000230
		140	5700	5,699.96081	0.00000688
		149	5745	5,744.98275	0.00000300
		157	5785	5,784.97140	0.00000494
		165	5825	5,824.96859	0.00000539
	11.4V	36	5180	5,179.92031	0.00001538
		44	5220	5,219.90683	0.00001785
		48	5240	5,239.94972	0.00000960
		52	5260	5,259.95400	0.00000875
		60	5300	5,299.93691	0.00001190
		64	5320	5,319.95172	0.00000908
		100	5500	5,499.95190	0.00000875
		116	5580	5,579.92122	0.00001412
		140	5700	5,699.91375	0.00001513
		149	5745	5,744.94610	0.00000938
		157	5785	5,784.90896	0.00001574
		165	5825	5,824.99573	0.00000073

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25 ℃	12V	36	5180	5,179.98110	0.00000365
		44	5220	5,219.91376	0.00001652
		48	5240	5,239.91820	0.00001561
		52	5260	5,259.94283	0.00001087
		60	5300	5,299.99911	0.00000017
		64	5320	5,319.91111	0.00001671
		100	5500	5,499.95300	0.00000855
		116	5580	5,579.97738	0.00000405
		140	5700	5,699.98796	0.00000211
		149	5745	5,744.93106	0.00001200
		157	5785	5,784.96742	0.00000563
		165	5825	5,824.98659	0.00000230

40 ℃	12.6V	36	5180	5,179.91098	0.00001719
		44	5220	5,219.99839	0.00000031
		48	5240	5,239.96467	0.00000674
		52	5260	5,259.98562	0.00000273
		60	5300	5,299.93049	0.00001312
		64	5320	5,319.95936	0.00000764
		100	5500	5,499.95710	0.00000780
		116	5580	5,579.92243	0.00001390
		140	5700	5,699.93063	0.00001217
		149	5745	5,744.97228	0.00000483
		157	5785	5,784.91882	0.00001403
		165	5825	5,824.98380	0.00000278
	11.4V	36	5180	5,179.97027	0.00000574
		44	5220	5,219.92543	0.00001429
		48	5240	5,239.91439	0.00001634
		52	5260	5,259.95805	0.00000798
		60	5300	5,299.98425	0.00000297
		64	5320	5,319.98997	0.00000189
		100	5500	5,499.97866	0.00000388
		116	5580	5,579.97454	0.00000456
		140	5700	5,699.94392	0.00000984
		149	5745	5,744.95803	0.00000731
		157	5785	5,784.95612	0.00000759
		165	5825	5,824.93619	0.00001095

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Operation Mode	802.11 n_HT40	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	38	5190	5,189.92391	0.00001466
		46	5230	5,229.97289	0.00000518
		54	5270	5,269.98649	0.00000256
		62	5310	5,309.93120	0.00001296
		102	5510	5,509.91798	0.00001489
		110	5550	5,549.90805	0.00001657
		134	5670	5,669.93205	0.00001198
		151	5755	5,754.91715	0.00001440
		159	5795	5,794.91243	0.00001511
	11.4V	38	5190	5,189.97283	0.00000524
		46	5230	5,229.97692	0.00000441
		54	5270	5,269.92900	0.00001347
		62	5310	5,309.92643	0.00001385
		102	5510	5,509.99746	0.00000046
		110	5550	5,549.94610	0.00000971
		134	5670	5,669.93840	0.00001086
		151	5755	5,754.98183	0.00000316
		159	5795	5,794.90803	0.00001587

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25 ℃	12V	38	5190	5,189.98899	0.00000212
		46	5230	5,229.96072	0.00000751
		54	5270	5,269.99141	0.00000163
		62	5310	5,309.92309	0.00001448
		102	5510	5,509.96112	0.00000706
		110	5550	5,549.91401	0.00001549
		134	5670	5,669.97699	0.00000406
		151	5755	5,754.98244	0.00000305
		159	5795	5,794.93107	0.00001189
40 ℃	12.6V	38	5190	5,189.91444	0.00001649
		46	5230	5,229.94746	0.00001005
		54	5270	5,269.95652	0.00000825
		62	5310	5,309.99037	0.00000181
		102	5510	5,509.92754	0.00001315
		110	5550	5,549.93804	0.00001116
		134	5670	5,669.91392	0.00001518
		151	5755	5,754.91489	0.00001479
		159	5795	5,794.95429	0.00000789
	11.4V	38	5190	5,189.91630	0.00001613
		46	5230	5,229.99464	0.00000102
		54	5270	5,269.90299	0.00001841
		62	5310	5,309.90662	0.00001759
		102	5510	5,509.91311	0.00001577
		110	5550	5,549.96938	0.00000552
		134	5670	5,669.95851	0.00000732
		151	5755	5,754.99847	0.00000027
		159	5795	5,794.92909	0.00001224

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	42	5210	5,209.99614	0.00000074
		58	5290	5,289.92033	0.00001506
		106	5530	5,529.96773	0.00000584
		122	5610	5,609.90731	0.00001652
		155	5775	5,774.92834	0.00001241
	11.4V	42	5210	5,209.97705	0.00000440
		58	5290	5,289.91649	0.00001579
		106	5530	5,529.94853	0.00000931
		122	5610	5,609.90737	0.00001651
		155	5775	5,774.99076	0.00000160
25 ℃	12V	42	5210	5,209.96039	0.00000760
		58	5290	5,289.91214	0.00001661
		106	5530	5,529.94281	0.00001034
		122	5610	5,609.99387	0.00000109
		155	5775	5,774.97630	0.00000410
40 ℃	12.6V	42	5210	5,209.93296	0.00001287
		58	5290	5,289.92394	0.00001438
		106	5530	5,529.90109	0.00001789
		122	5610	5,609.98093	0.00000340
		155	5775	5,774.99797	0.00000035
	11.4V	42	5210	5,209.91126	0.00001703
		58	5290	5,289.93810	0.00001170
		106	5530	5,529.96879	0.00000564
		122	5610	5,609.94009	0.00001068
		155	5775	5,774.97592	0.00000417

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	36	5180	5,179.93159	0.00001321
		44	5220	5,219.93766	0.00001194
		48	5240	5,239.94322	0.00001084
		52	5260	5,259.94515	0.00001043
		60	5300	5,299.92994	0.00001322
		64	5320	5,319.92043	0.00001496
		100	5500	5,499.97116	0.00000524
		116	5580	5,579.92493	0.00001345
		140	5700	5,699.96363	0.00000638
		149	5745	5,744.92824	0.00001249
		157	5785	5,784.92550	0.00001288
		165	5825	5,824.95246	0.00000816
	11.4V	36	5180	5,179.97722	0.00000440
		44	5220	5,219.97953	0.00000392
		48	5240	5,239.91847	0.00001556
		52	5260	5,259.95821	0.00000794
		60	5300	5,299.96842	0.00000596
		64	5320	5,319.90982	0.00001695
		100	5500	5,499.99954	0.00000008
		116	5580	5,579.95733	0.00000765
		140	5700	5,699.95384	0.00000810
		149	5745	5,744.99500	0.00000087
		157	5785	5,784.98869	0.00000196
		165	5825	5,824.91686	0.00001427

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25 ℃	12V	36	5180	5,179.99765	0.00000045
		44	5220	5,219.95438	0.00000874
		48	5240	5,239.98055	0.00000371
		52	5260	5,259.92879	0.00001354
		60	5300	5,299.91838	0.00001540
		64	5320	5,319.92922	0.00001330
		100	5500	5,499.92597	0.00001346
		116	5580	5,579.93439	0.00001176
		140	5700	5,699.98746	0.00000220
		149	5745	5,744.99833	0.00000029
		157	5785	5,784.96169	0.00000662
		165	5825	5,824.90810	0.00001578

40 ℃	12.6V	36	5180	5,179.95034	0.00000959
		44	5220	5,219.93603	0.00001225
		48	5240	5,239.96502	0.00000668
		52	5260	5,259.92820	0.00001365
		60	5300	5,299.92480	0.00001419
		64	5320	5,319.92688	0.00001374
		100	5500	5,499.96540	0.00000629
		116	5580	5,579.99067	0.00000167
		140	5700	5,699.94181	0.00001021
		149	5745	5,744.92947	0.00001228
		157	5785	5,784.93504	0.00001123
		165	5825	5,824.99237	0.00000131
	11.4V	36	5180	5,179.90128	0.00001906
		44	5220	5,219.96336	0.00000702
		48	5240	5,239.96533	0.00000662
		52	5260	5,259.90488	0.00001808
		60	5300	5,299.95528	0.00000844
		64	5320	5,319.94913	0.00000956
		100	5500	5,499.97137	0.00000521
		116	5580	5,579.99239	0.00000136
		140	5700	5,699.97816	0.00000383
		149	5745	5,744.90292	0.00001690
		157	5785	5,784.94796	0.00000900
		165	5825	5,824.95856	0.00000711

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Operation Mode	802.11 n_HT40	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	38	5190	5,189.94889	0.00000985
		46	5230	5,229.96154	0.00000735
		54	5270	5,269.93801	0.00001176
		62	5310	5,309.94564	0.00001024
		102	5510	5,509.91139	0.00001608
		110	5550	5,549.90625	0.00001689
		134	5670	5,669.99998	0.00000000
		151	5755	5,754.90521	0.00001647
		159	5795	5,794.99010	0.00000171
	11.4V	38	5190	5,189.99588	0.00000079
		46	5230	5,229.99541	0.00000088
		54	5270	5,269.92339	0.00001454
		62	5310	5,309.91918	0.00001522
		102	5510	5,509.93482	0.00001183
		110	5550	5,549.91191	0.00001587
		134	5670	5,669.94825	0.00000913
		151	5755	5,754.92944	0.00001226
		159	5795	5,794.96047	0.00000682

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25 ℃	12V	38	5190	5,189.90377	0.00001854
		46	5230	5,229.95767	0.00000809
		54	5270	5,269.94347	0.00001073
		62	5310	5,309.94543	0.00001028
		102	5510	5,509.96317	0.00000668
		110	5550	5,549.90912	0.00001637
		134	5670	5,669.90602	0.00001657
		151	5755	5,754.92294	0.00001339
		159	5795	5,794.90680	0.00001608
40 ℃	12.6V	38	5190	5,189.97493	0.00000483
		46	5230	5,229.98483	0.00000290
		54	5270	5,269.91835	0.00001549
		62	5310	5,309.98199	0.00000339
		102	5510	5,509.91479	0.00001546
		110	5550	5,549.91320	0.00001564
		134	5670	5,669.94234	0.00001017
		151	5755	5,754.95707	0.00000746
		159	5795	5,794.91460	0.00001474
	11.4V	38	5190	5,189.94564	0.00001047
		46	5230	5,229.92642	0.00001407
		54	5270	5,269.96216	0.00000718
		62	5310	5,309.92404	0.00001431
		102	5510	5,509.98696	0.00000237
		110	5550	5,549.91690	0.00001497
		134	5670	5,669.93509	0.00001145
		151	5755	5,754.99508	0.00000085
		159	5795	5,794.98743	0.00000217

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Operation Mode	802.11 ac_VHT80	Test Date	2018.05.02
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	12.6V	42	5210	5,209.99069	0.00000179
		58	5290	5,289.94533	0.00001033
		106	5530	5,529.99933	0.00000012
		122	5610	5,609.91228	0.00001564
		155	5775	5,774.96307	0.00000639
	11.4V	42	5210	5,209.98914	0.00000208
		58	5290	5,289.97325	0.00000506
		106	5530	5,529.95486	0.00000816
		122	5610	5,609.90667	0.00001664
		155	5775	5,774.96498	0.00000606
25 ℃	12V	42	5210	5,209.97562	0.00000468
		58	5290	5,289.98720	0.00000242
		106	5530	5,529.99056	0.00000171
		122	5610	5,609.94612	0.00000960
		155	5775	5,774.95061	0.00000855
40 ℃	12.6V	42	5210	5,209.98798	0.00000231
		58	5290	5,289.95719	0.00000809
		106	5530	5,529.95613	0.00000793
		122	5610	5,609.98399	0.00000285
		155	5775	5,774.95067	0.00000854
	11.4V	42	5210	5,209.97664	0.00000448
		58	5290	5,289.92972	0.00001329
		106	5530	5,529.96420	0.00000647
		122	5610	5,609.91937	0.00001437
		155	5775	5,774.97196	0.00000486

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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

According to §15.407, 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.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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