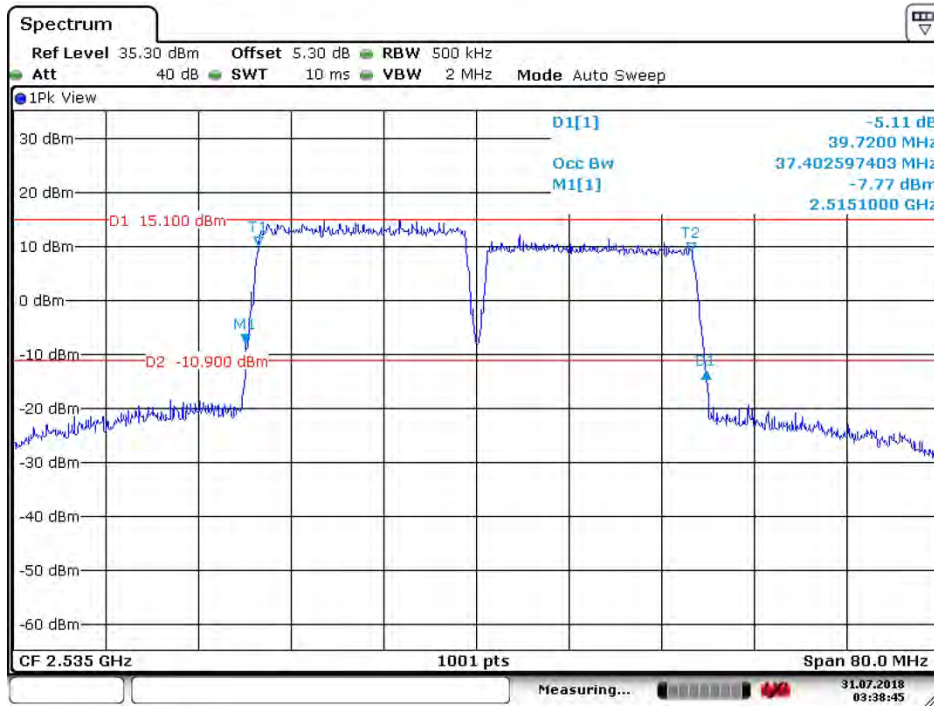
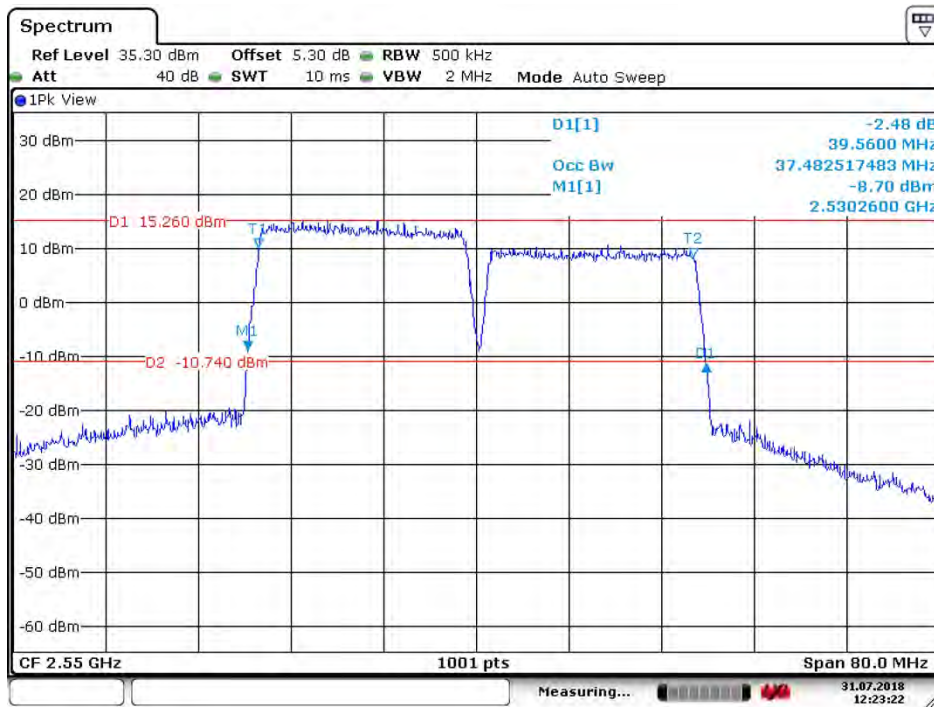


4.1.2.2.2 Test Channel = 21001-21199

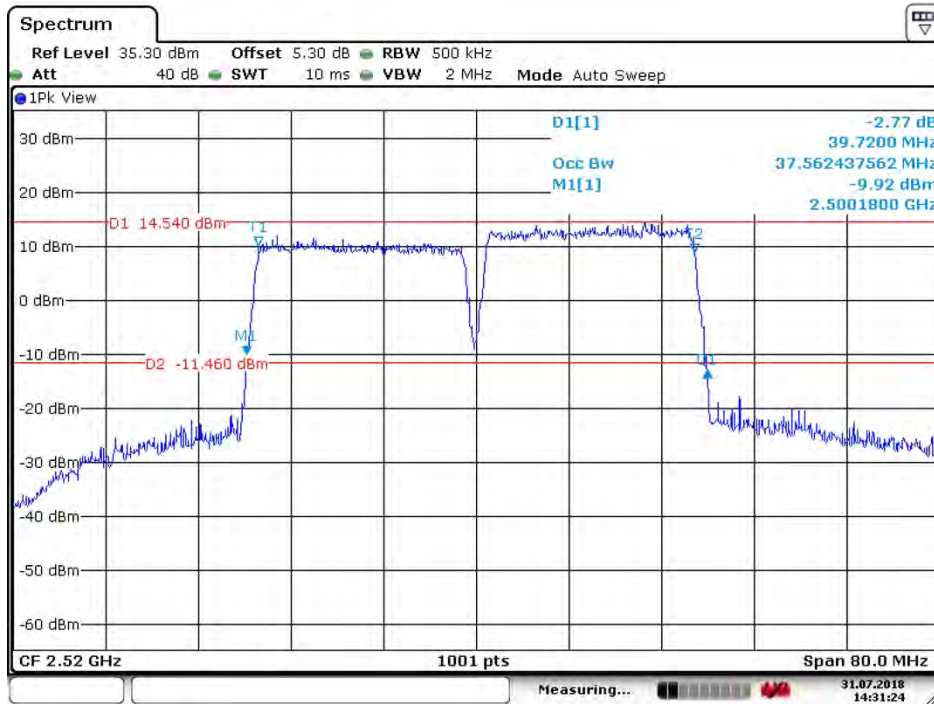


4.1.2.2.3 Test Channel = 21152-21350



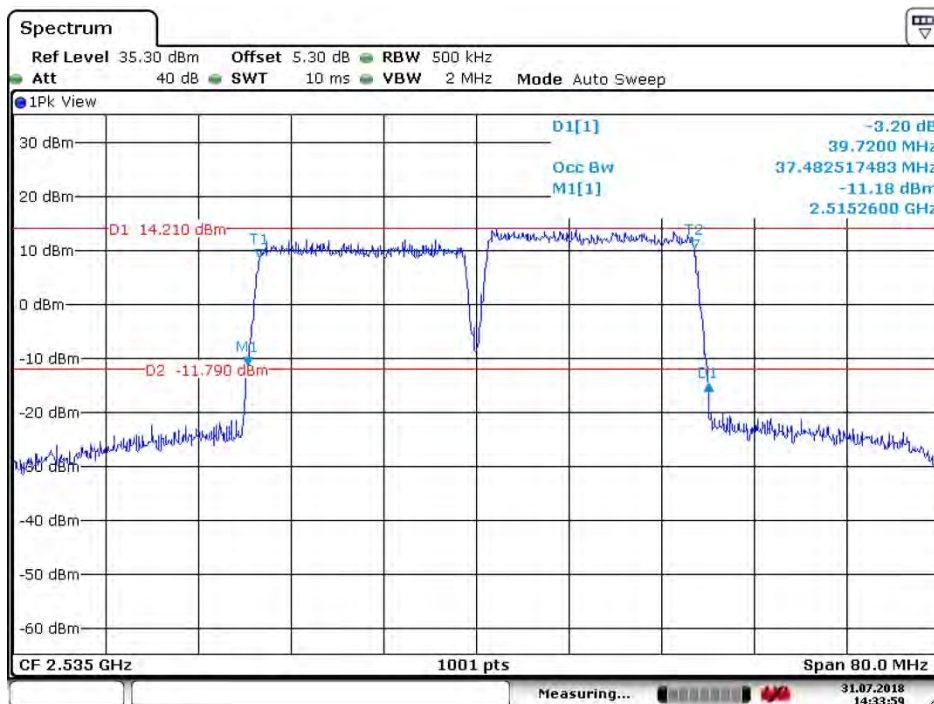
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4.1.2.2.4 Test Channel = 21048-20850



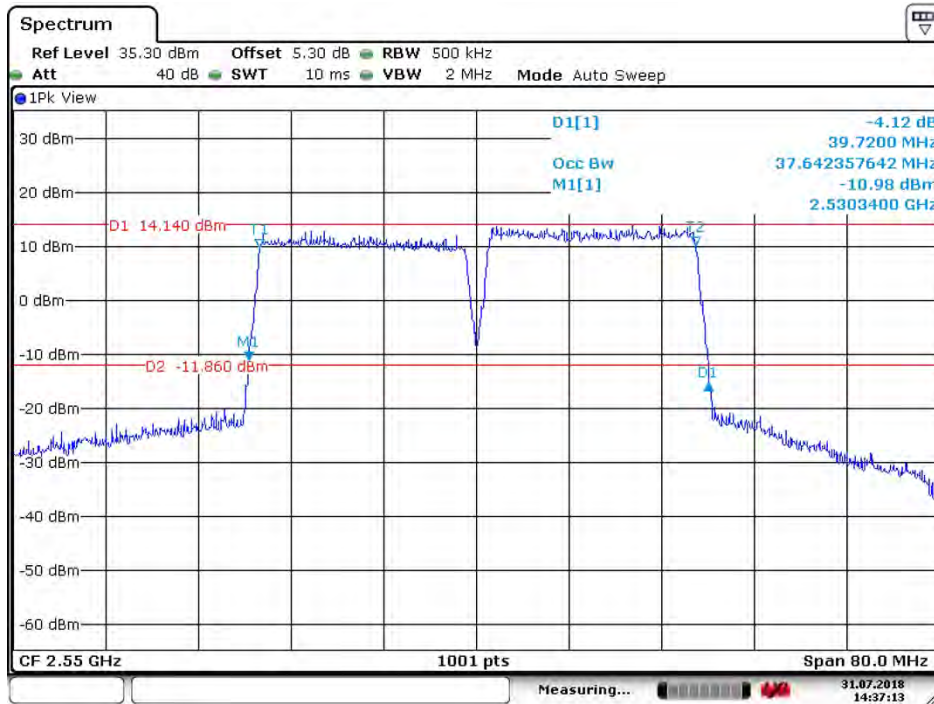
Date: 31.JUL.2018 14:31:25

4.1.2.2.5 Test Channel = 21199-21001



Date: 31.JUL.2018 14:33:59

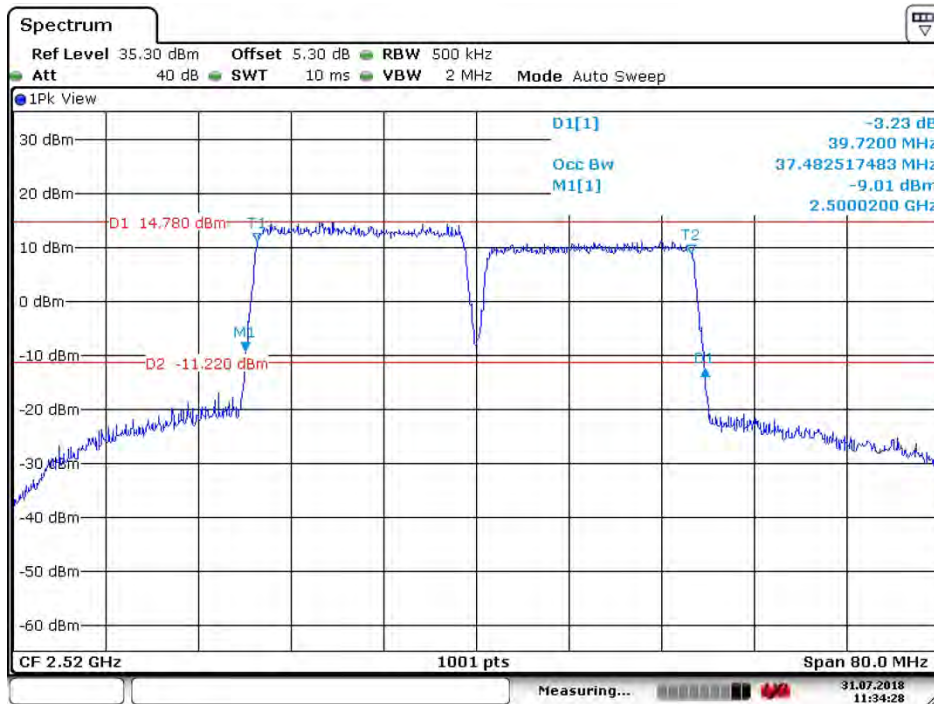
4.1.2.2.6 Test Channel = 21350-21152



Date: 31.JUL.2018 14:37:14

4.1.2.3 Test Mode = LTE/TM3

4.1.2.3.1 Test Channel = 20850-21048

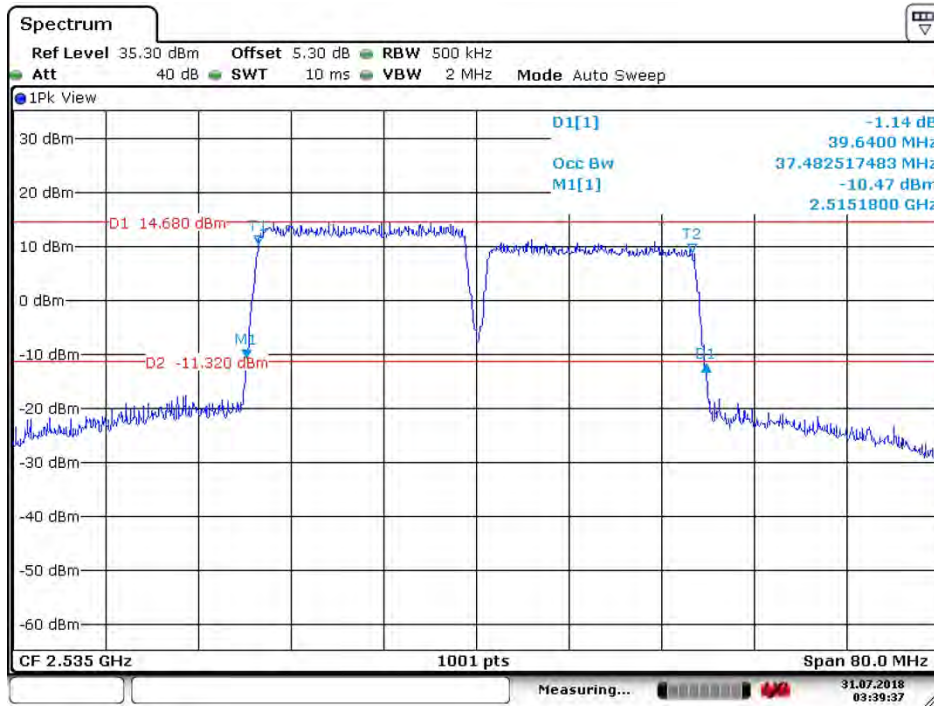


Date: 31.JUL.2018 11:34:29

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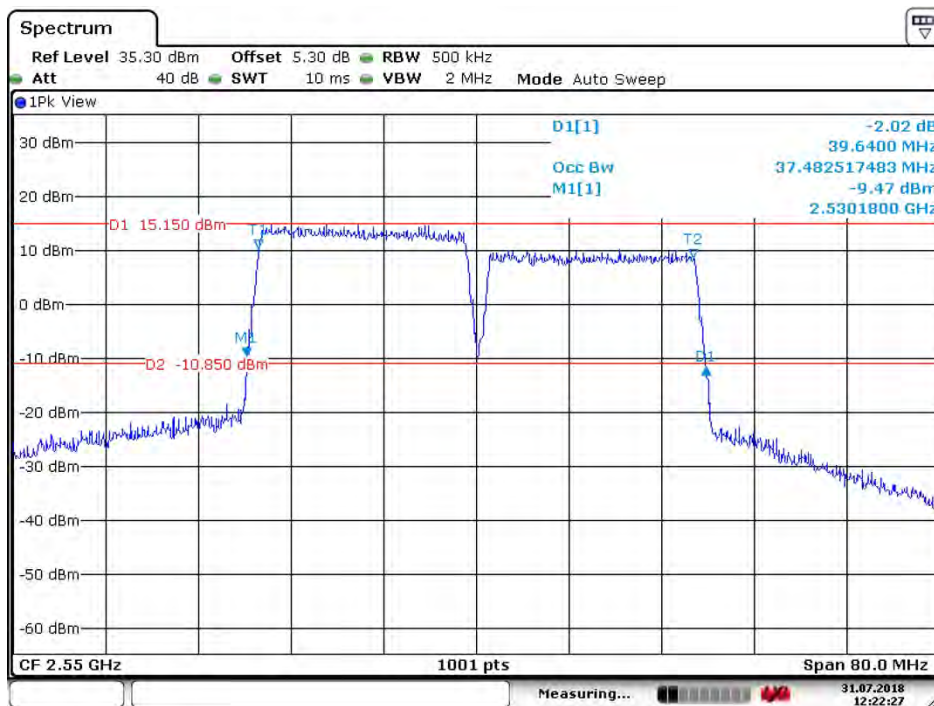


4.1.2.3.2 Test Channel = 21001-21199



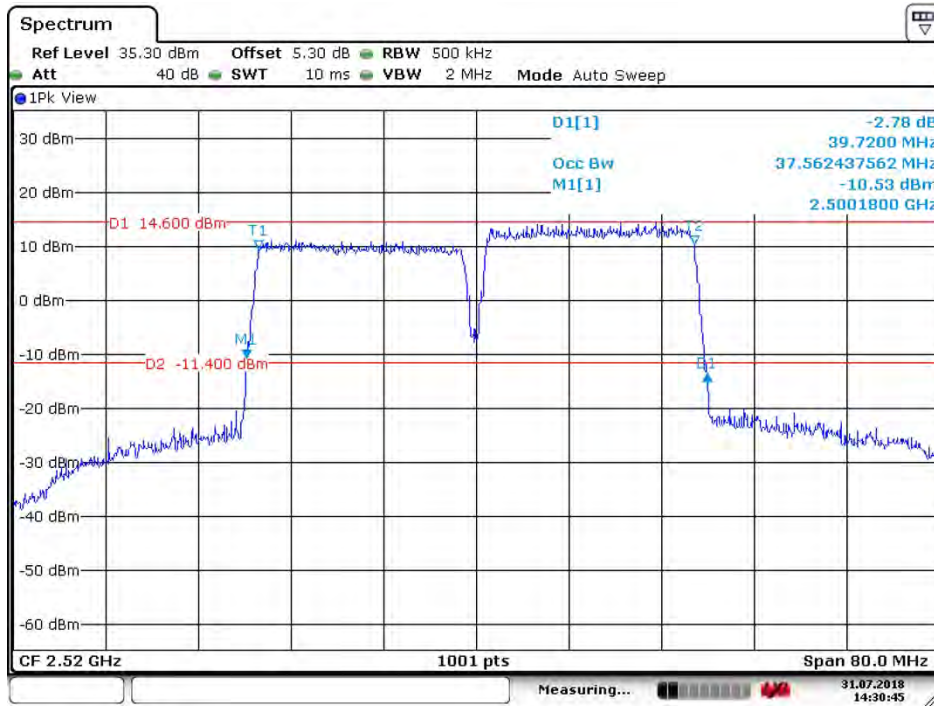
Date: 31.JUL.2018 03:39:36

4.1.2.3.3 Test Channel = 21152-21350



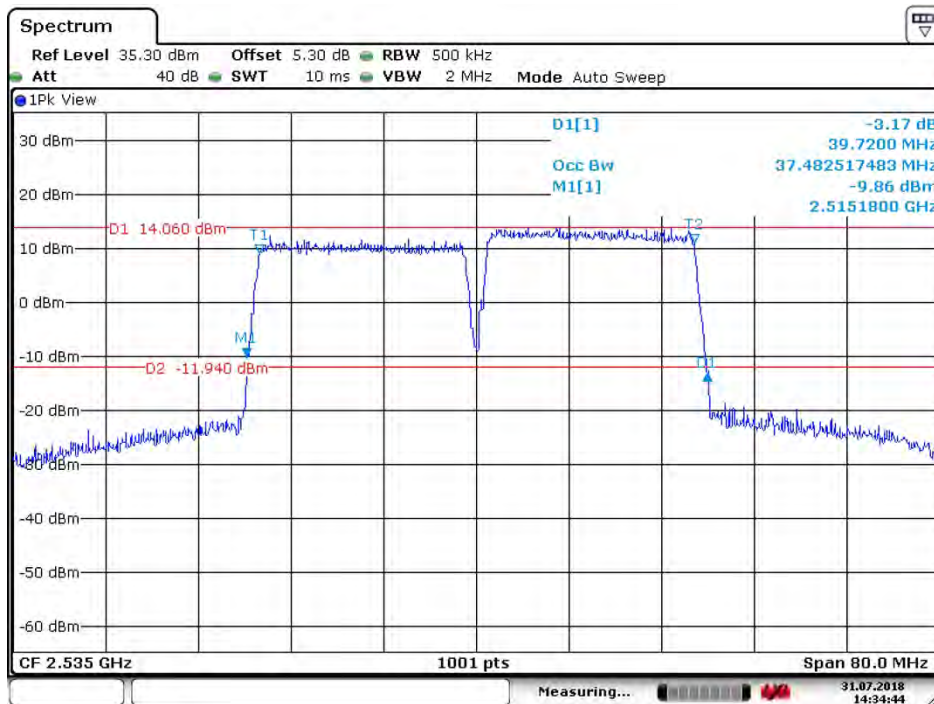
Date: 31.JUL.2018 12:22:27

4.1.2.3.4 Test Channel = 21048-20850



Date: 31.JUL.2018 14:30:45

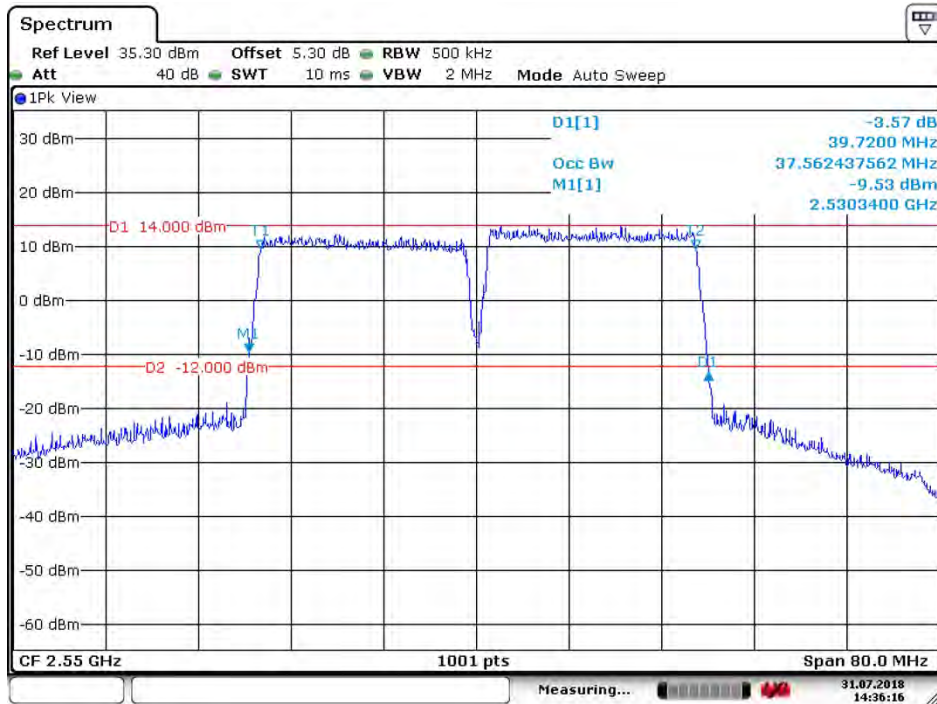
4.1.2.3.5 Test Channel = 21199-21001



Date: 31.JUL.2018 14:34:44



4.1.2.3.6 Test Channel = 21350-21152



Date: 31.JUL.2018 14:36:16

5 Band Edges Compliance

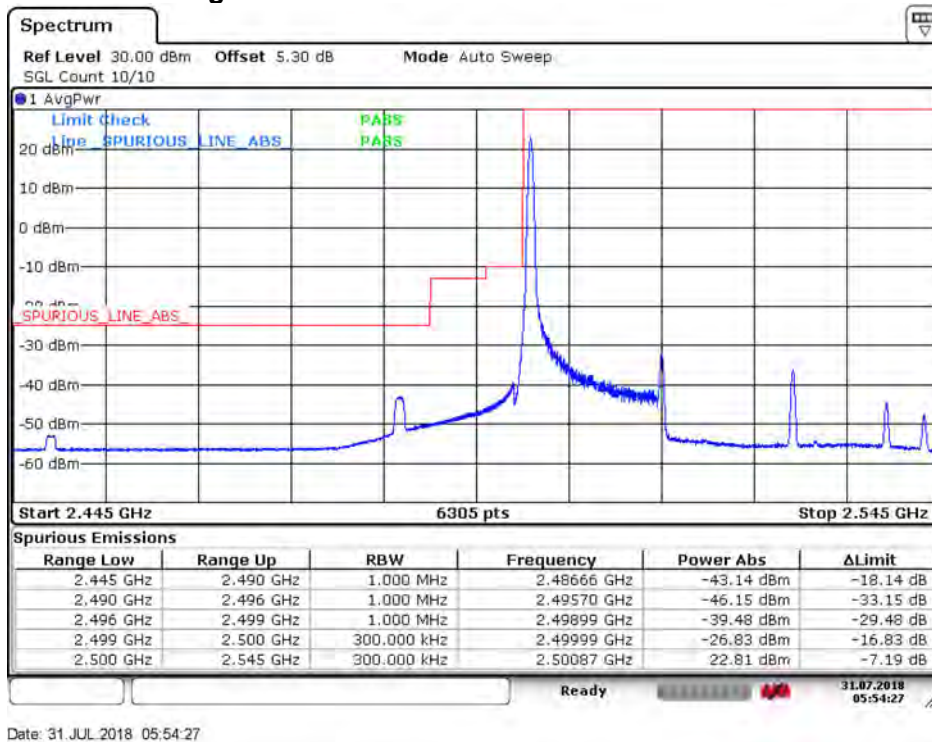
5.1 For LTE_CA_7C

5.1.1 Test Band = Bandwidth=75RB+75RB

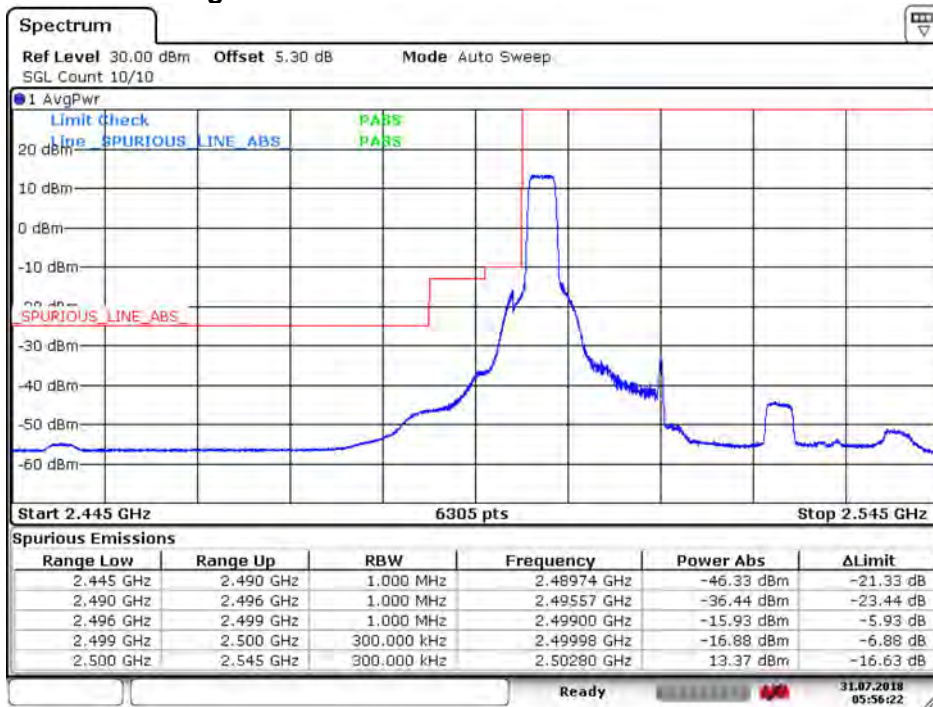
5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Channel = 20825-20975

5.1.1.1.1.1 RB Configuration =1RB#0-0RB#0

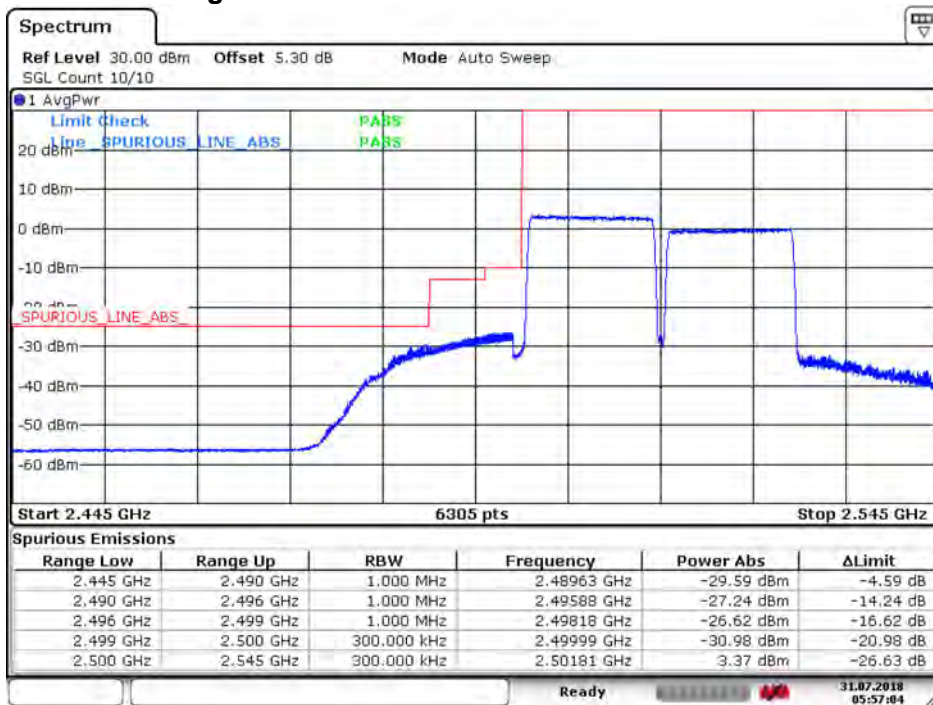


5.1.1.1.2 RB Configuration =16RB#0-0RB#0



Date: 31 JUL 2018 05:56:22

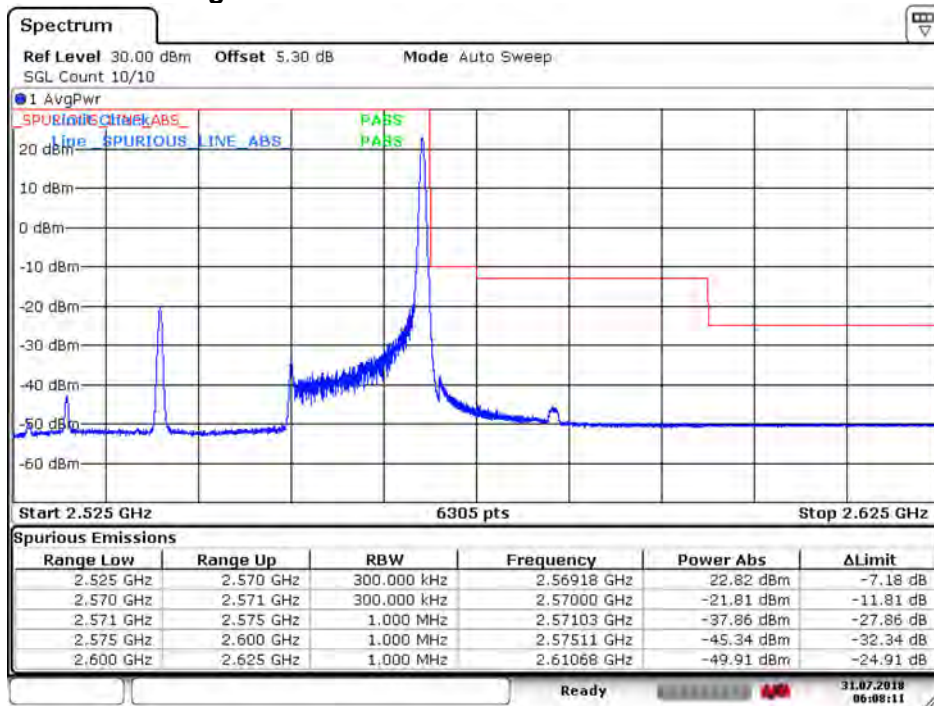
5.1.1.1.3 RB Configuration =75RB#0-75RB#0



Date: 31 JUL 2018 05:57:05

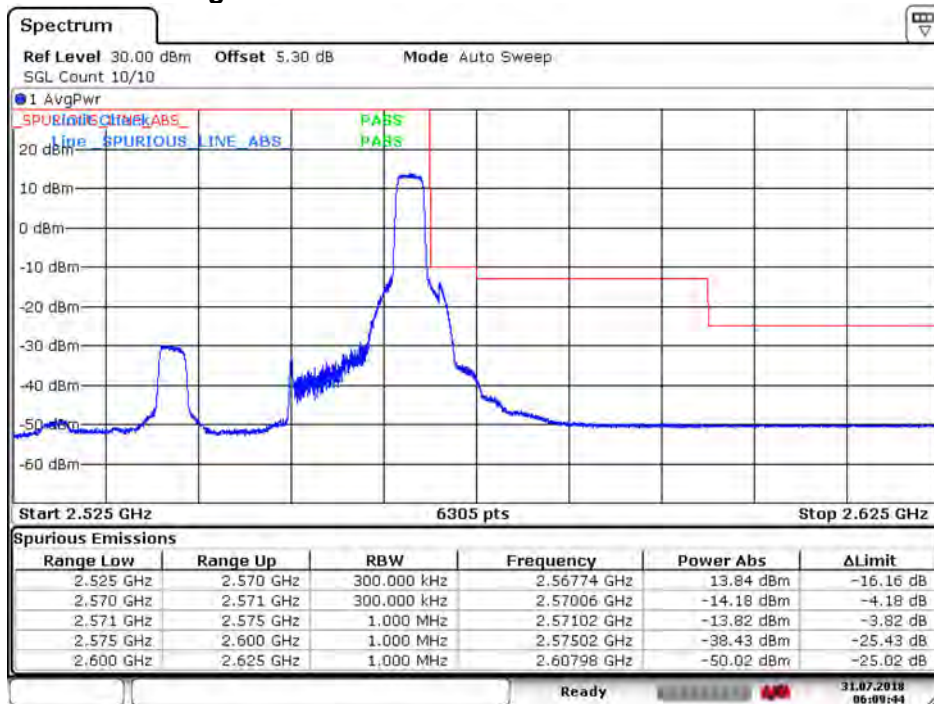
5.1.1.1.2 Test Channel = 21225-21375

5.1.1.1.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 06:08:10

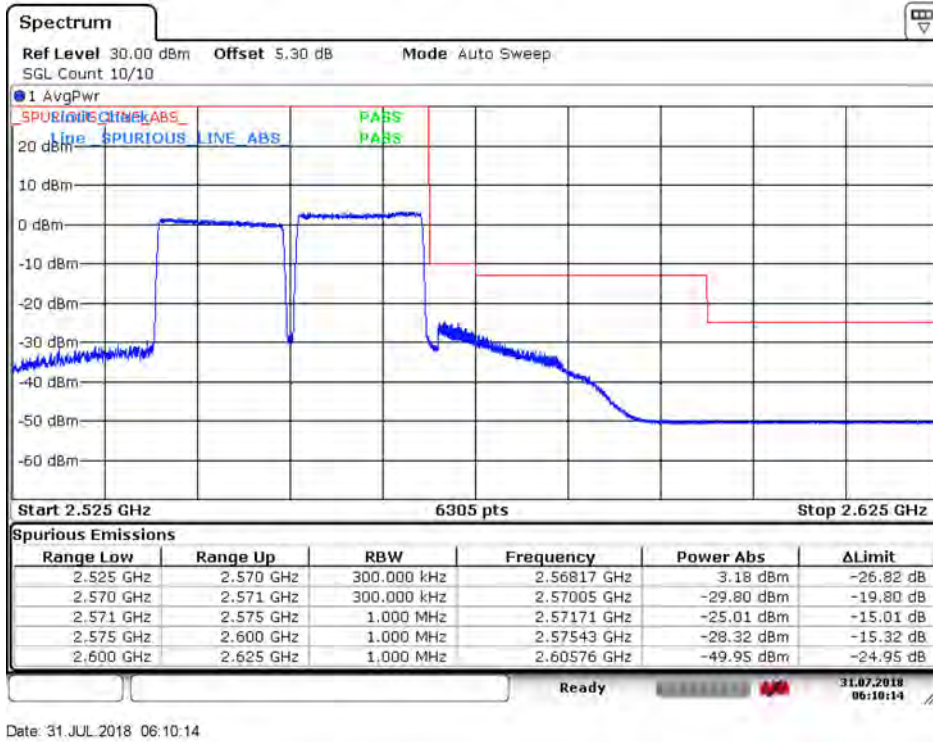
5.1.1.1.2.2 RB Configuration =16RB#59-0RB#0



Date: 31 JUL 2018 06:09:44

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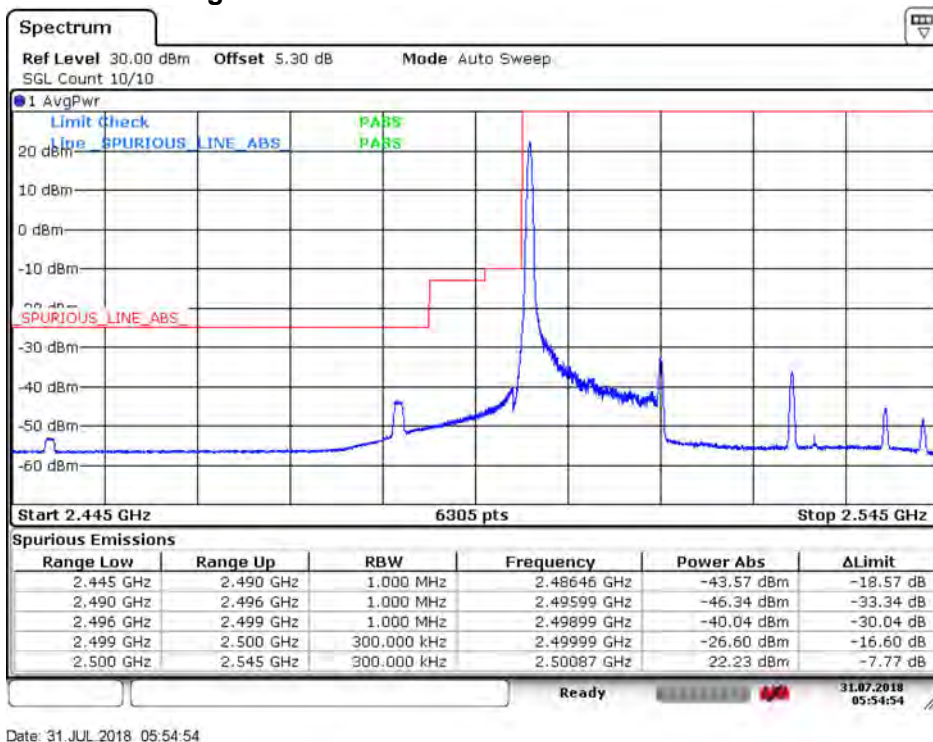
5.1.1.1.2.3 RB Configuration =75RB#0-75RB#0



5.1.1.2 Test Mode = LTE/TM2

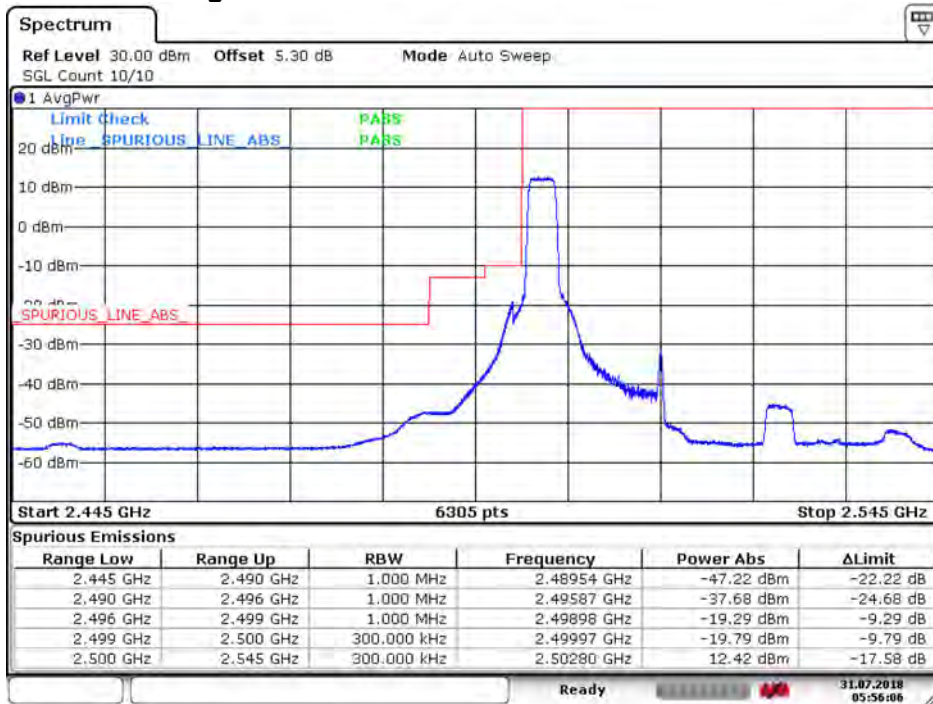
5.1.1.2.1 Test Channel = 20825-20975

5.1.1.2.1.1 RB Configuration =1RB#0-0RB#0



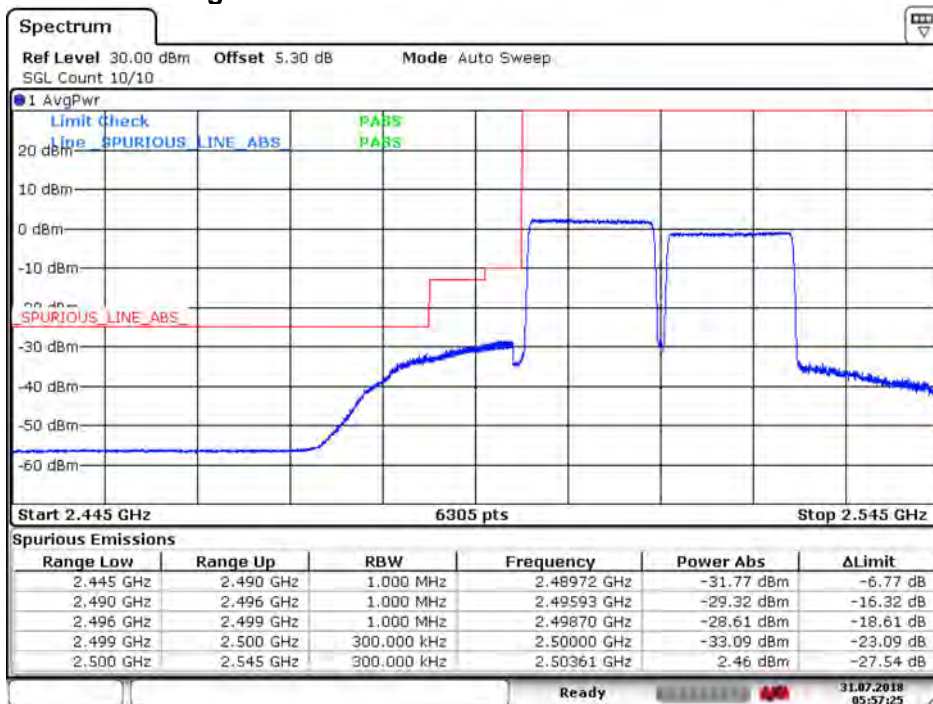
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5.1.1.2.1.2 RB Configuration =16RB#0-0RB#0



Date: 31 JUL 2018 05:56:06

5.1.1.2.1.3 RB Configuration =75RB#0-75RB#0

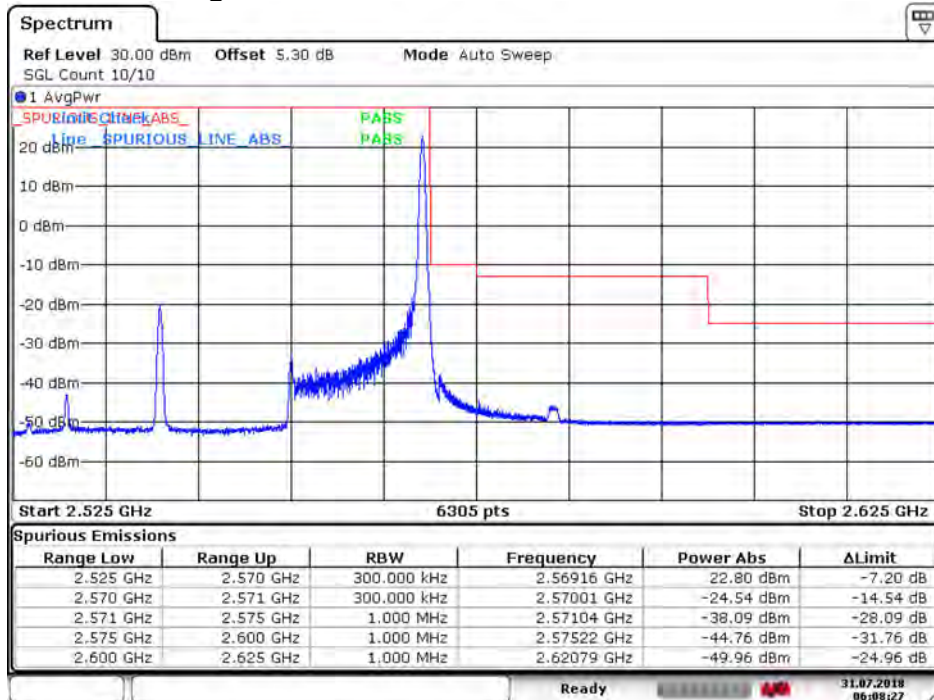


Date: 31 JUL 2018 05:57:25

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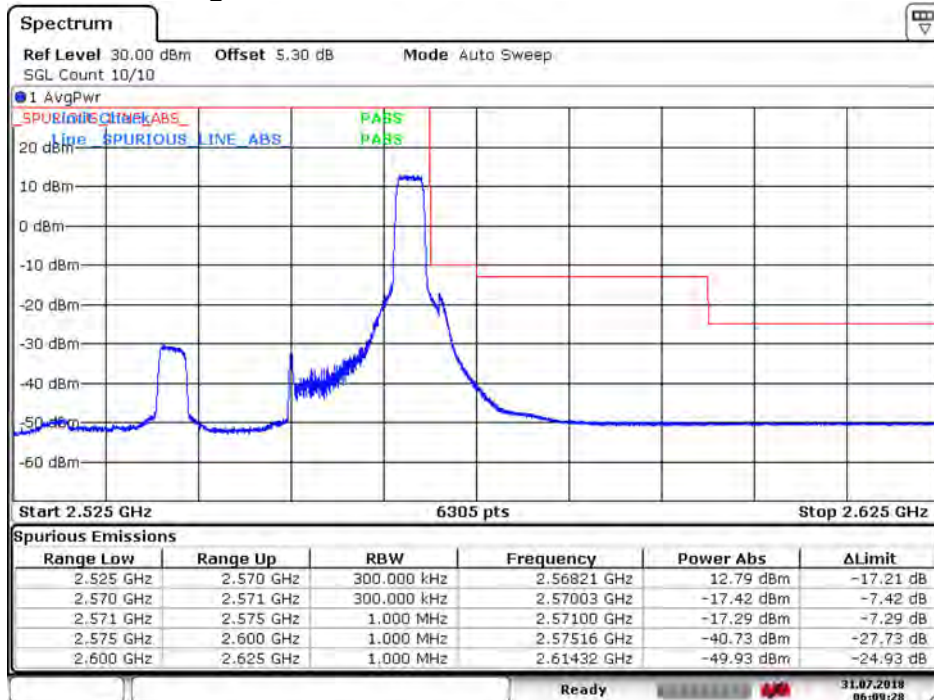
5.1.1.2.2 Test Channel = 21225-21375

5.1.1.2.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 06:08:27

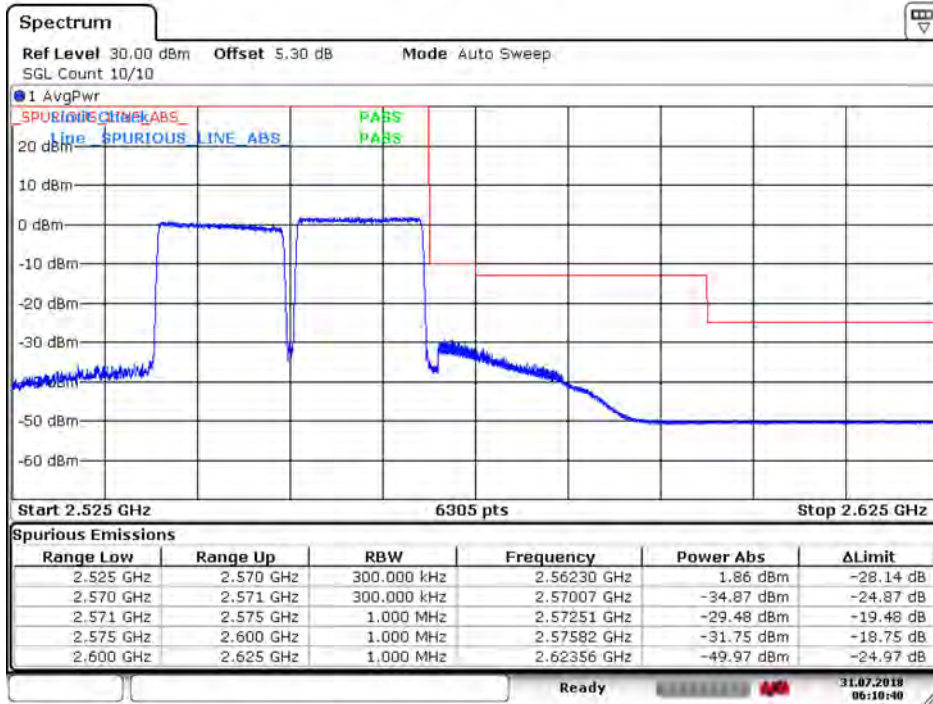
5.1.1.2.2.2 RB Configuration =16RB#59-0RB#0



Date: 31 JUL 2018 06:09:28

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5.1.1.2.3 RB Configuration =75RB#0-75RB#0

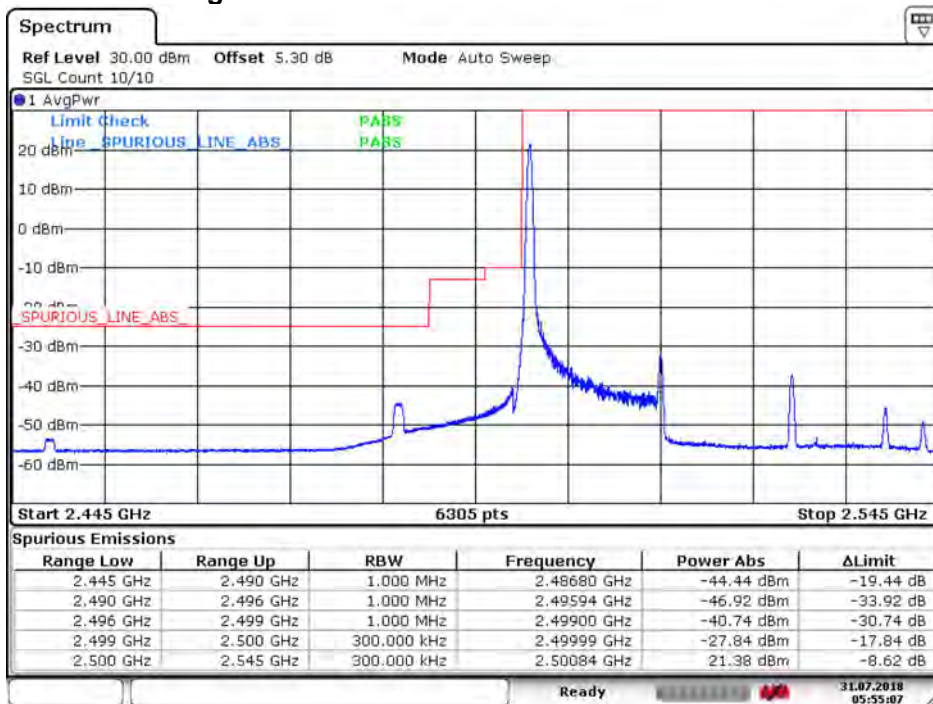


Date: 31 JUL 2018 06:10:40

5.1.1.3 Test Mode = LTE/TM3

5.1.1.3.1 Test Channel = 20825-20975

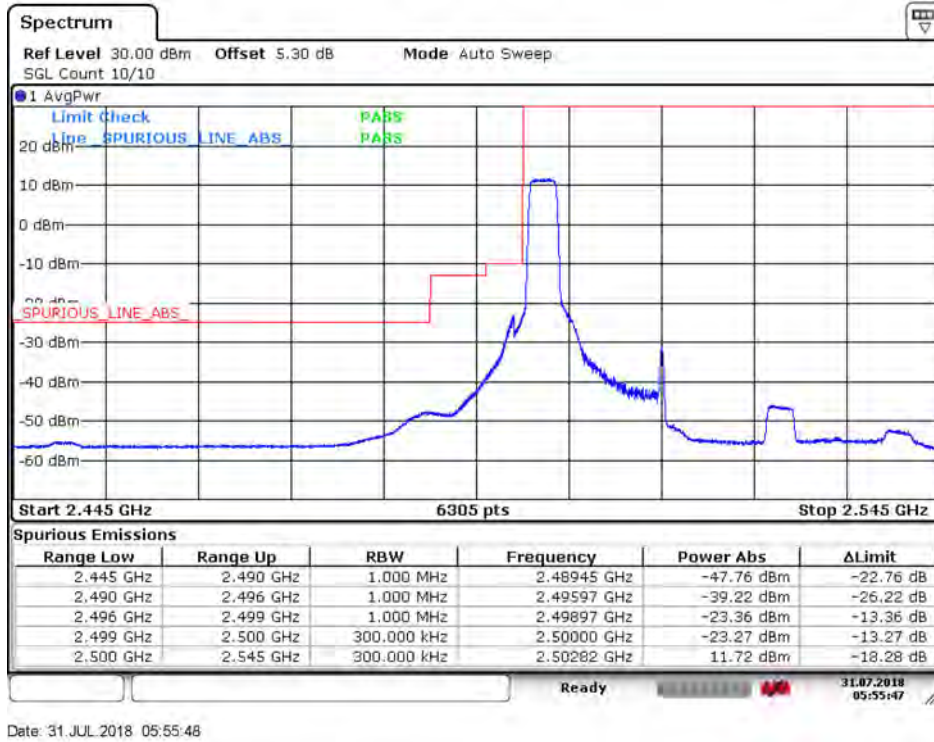
5.1.1.3.1.1 RB Configuration =1RB#0-0RB#0



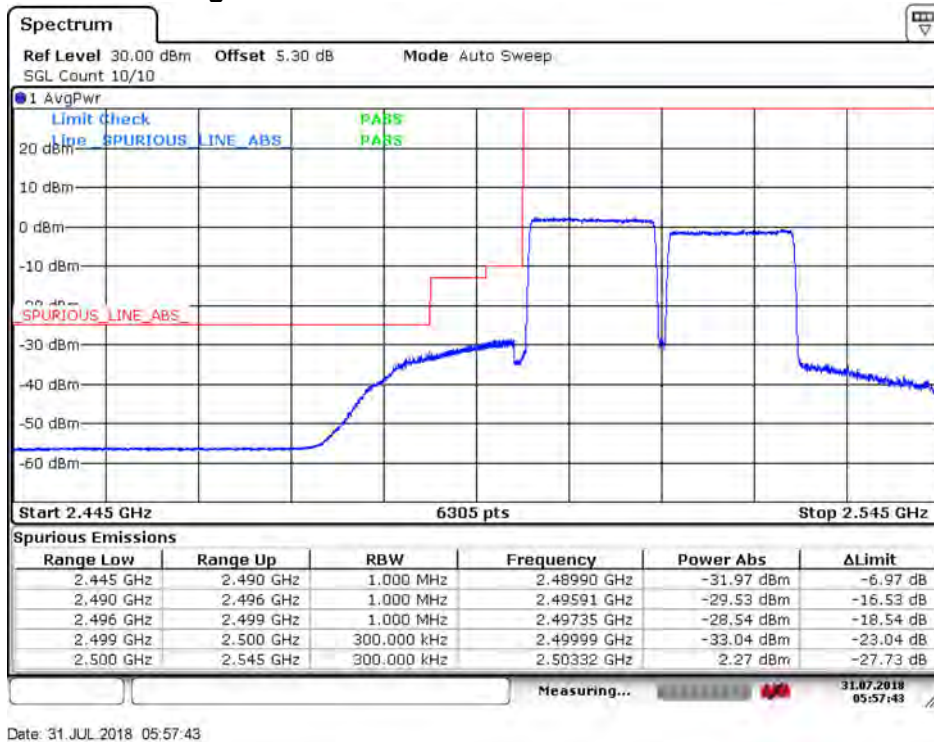
Date: 31 JUL 2018 05:55:07

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5.1.1.3.1.2 RB Configuration =16RB#0-0RB#0



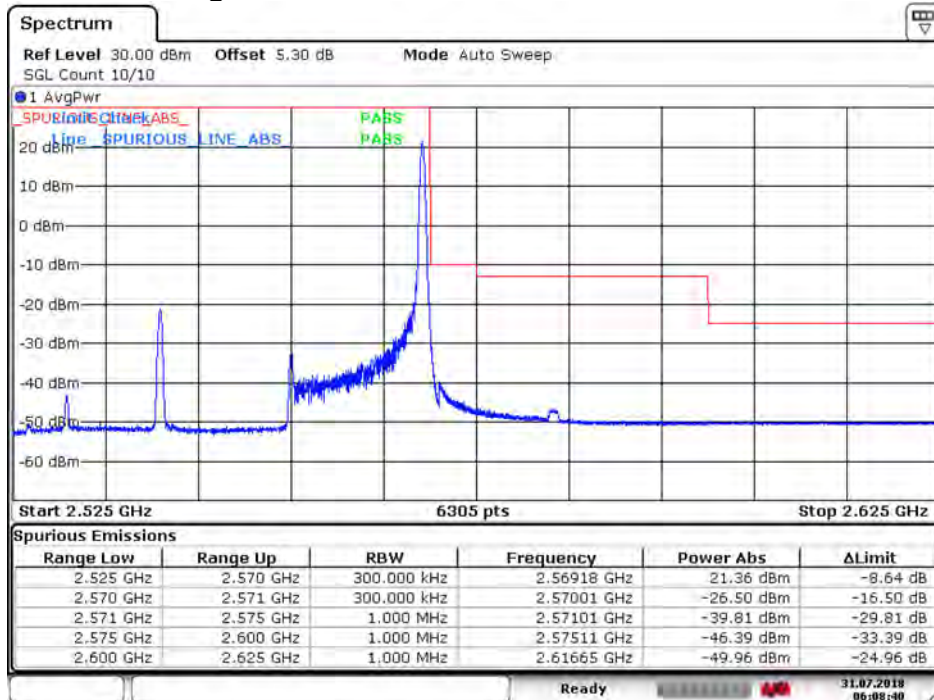
5.1.1.3.1.3 RB Configuration =75RB#0-75RB#0



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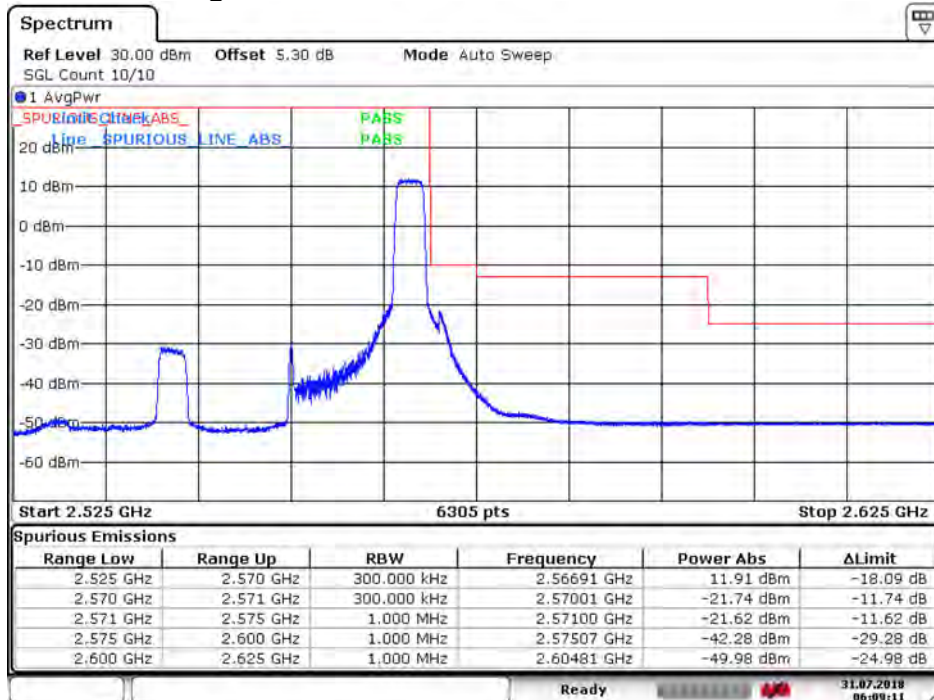
5.1.1.3.2 Test Channel = 21225-21375

5.1.1.3.2.1 RB Configuration =1RB#74-0RB#0



Date: 31 JUL 2018 06:08:40

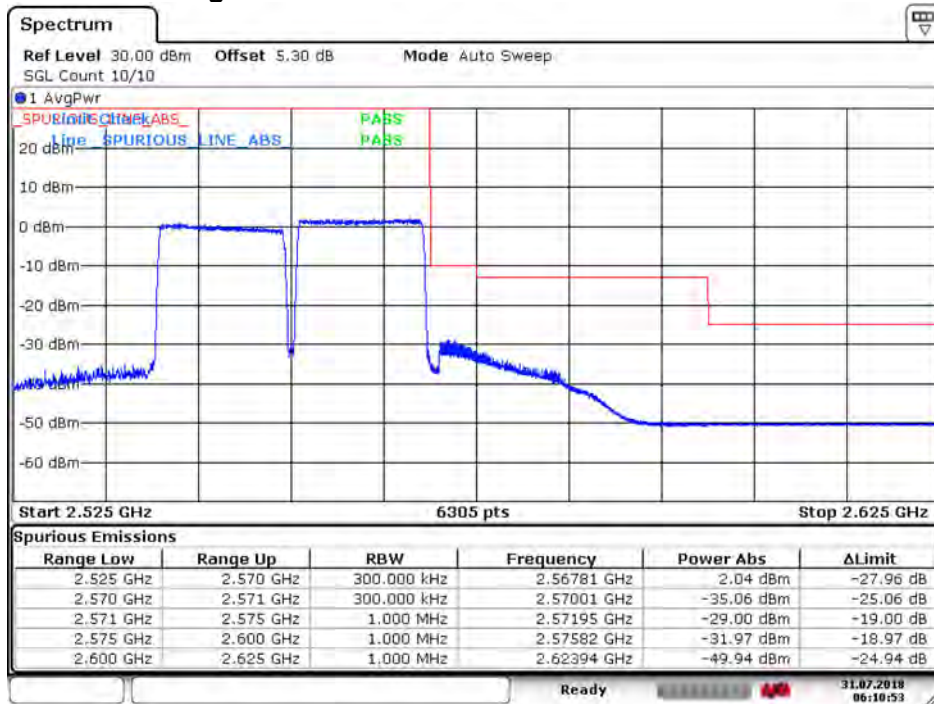
5.1.1.3.2.2 RB Configuration =16RB#59-0RB#0



Date: 31 JUL 2018 06:09:11

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5.1.1.3.2.3 RB Configuration =75RB#0-75RB#0



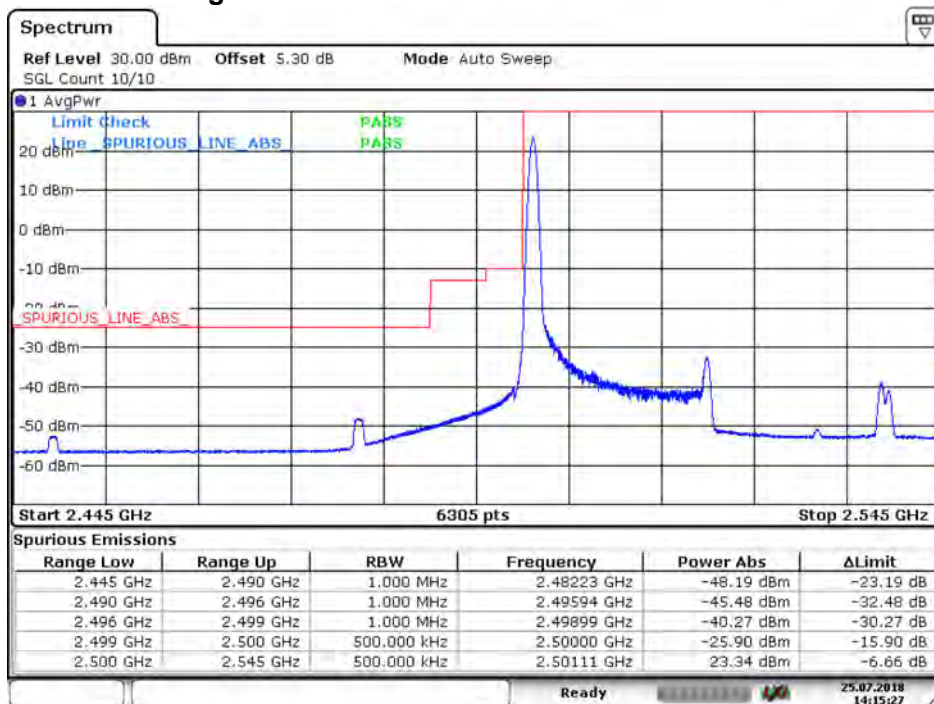
Date: 31 JUL 2018 06:10:54

5.1.2 Test Band = Bandwidth=100RB+100RB

5.1.2.1 Test Mode = LTE/TM1

5.1.2.1.1 Test Channel = 20850-21048

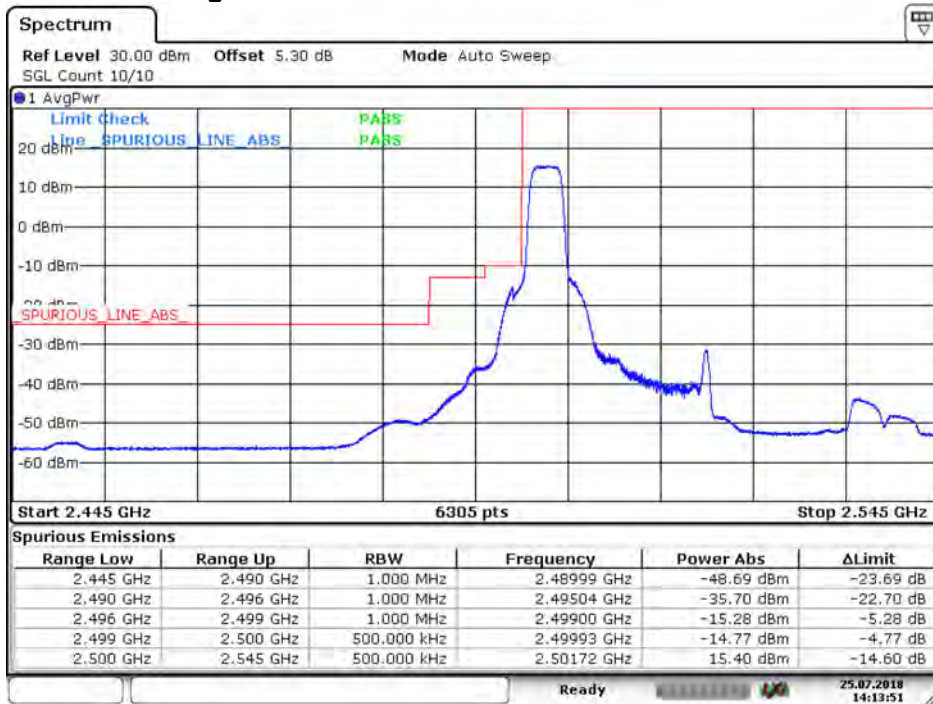
5.1.2.1.1.1 RB Configuration =1RB#0-0RB#0



Date: 25 JUL 2018 14:15:27

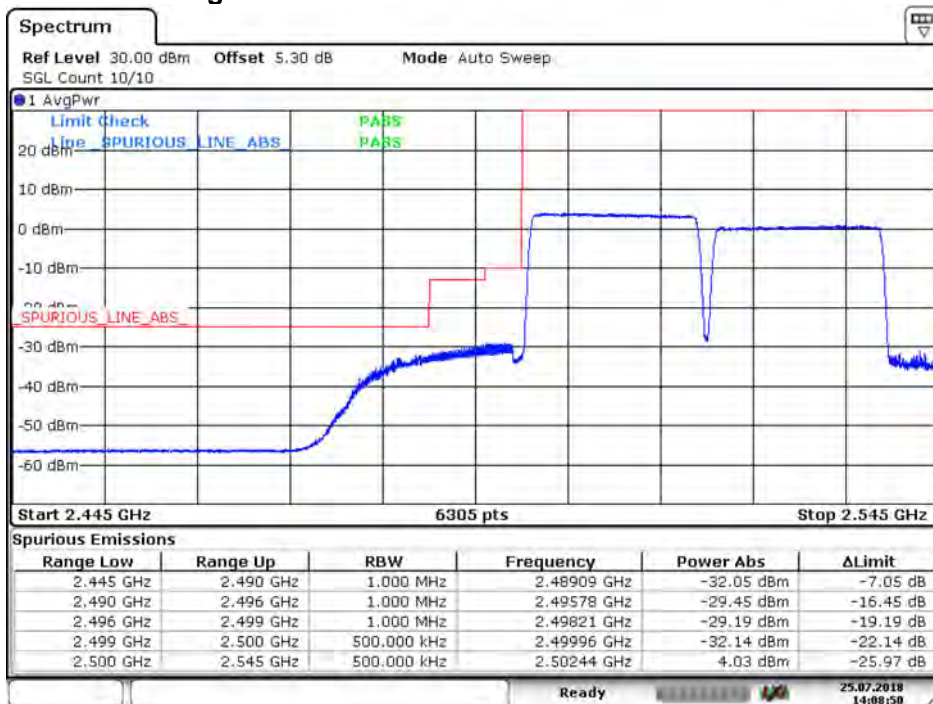
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5.1.2.1.1.2 RB Configuration =18RB#0-0RB#0



Date: 25 JUL 2018 14:13:51

5.1.2.1.1.3 RB Configuration =100RB#0-100RB#0

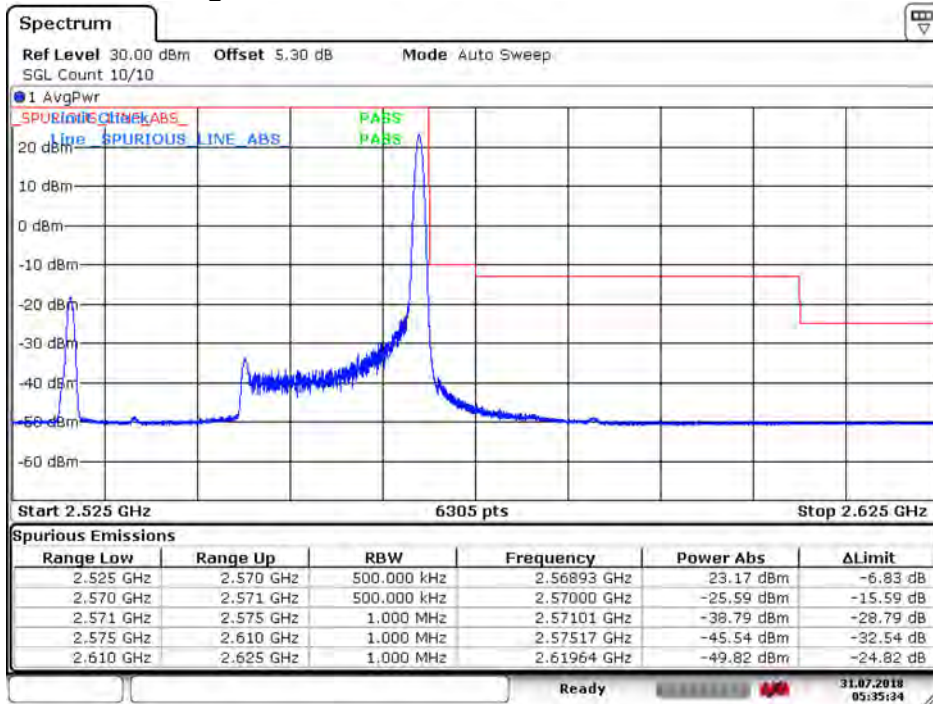


Date: 25 JUL 2018 14:08:50

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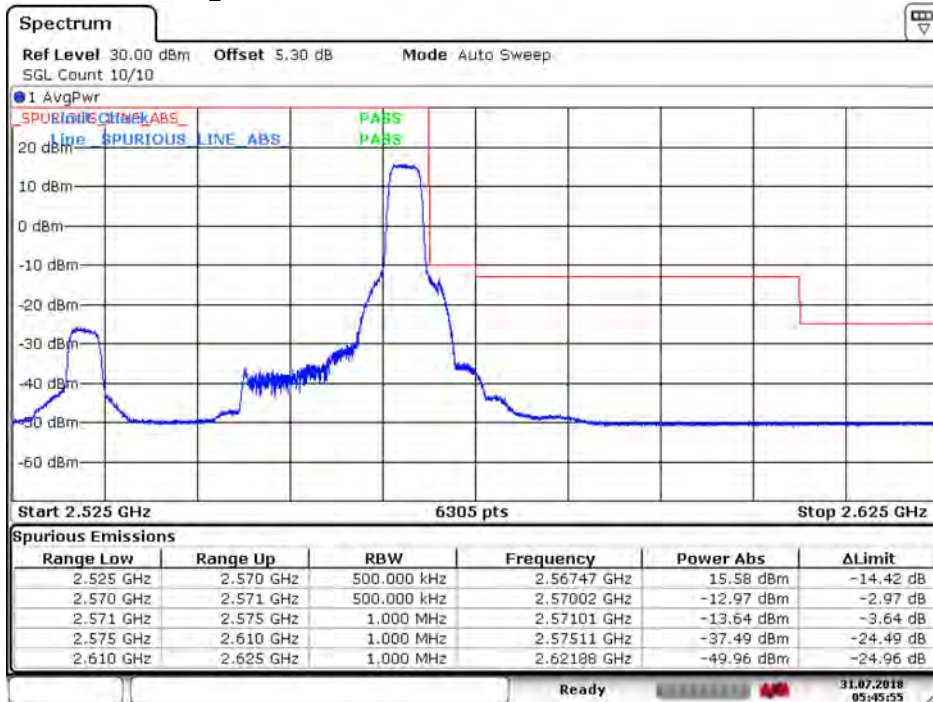
5.1.2.1.2 Test Channel = 21152-21350

5.1.2.1.2.1 RB Configuration =1RB#99-0RB#0



Date: 31 JUL 2018 05:35:34

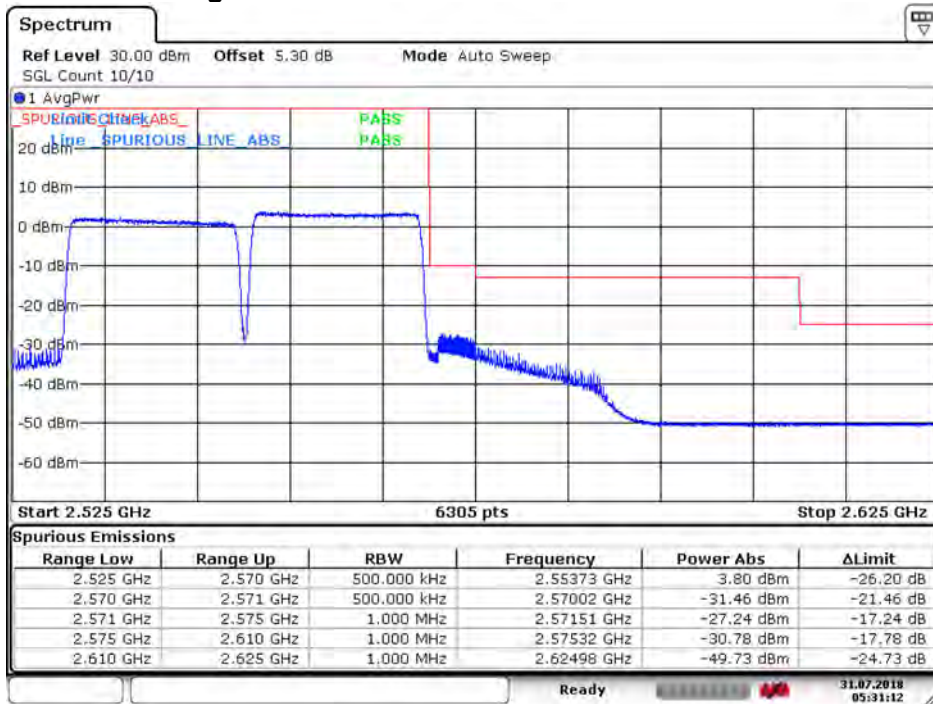
5.1.2.1.2.2 RB Configuration =18RB#82-0RB#0



Date: 31 JUL 2018 05:45:55

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5.1.2.1.2.3 RB Configuration =100RB#0-100RB#0

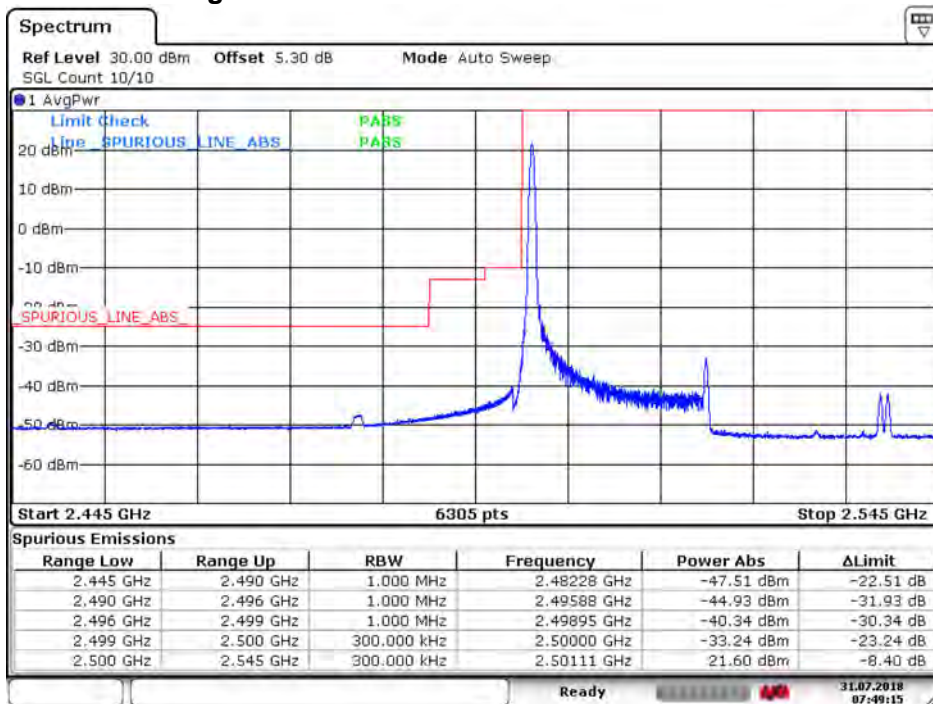


Date: 31.JUL.2018 05:31:13

5.1.2.2 Test Mode = LTE/TM2

5.1.2.2.1 Test Channel = 20850-21048

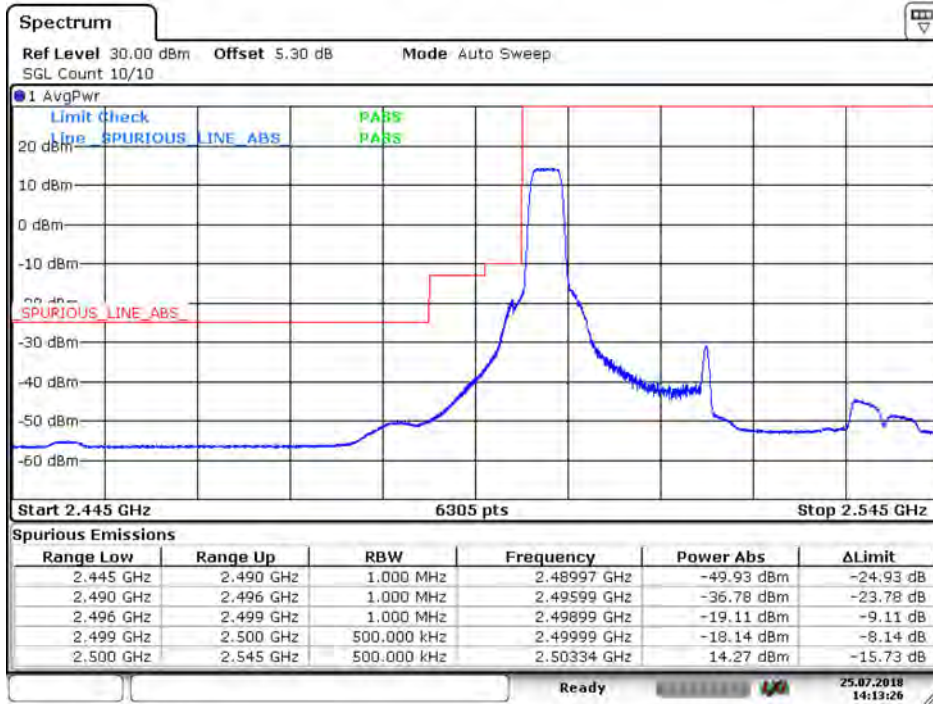
5.1.2.2.1.1 RB Configuration =1RB#0-0RB#0



Date: 31.JUL.2018 07:49:15

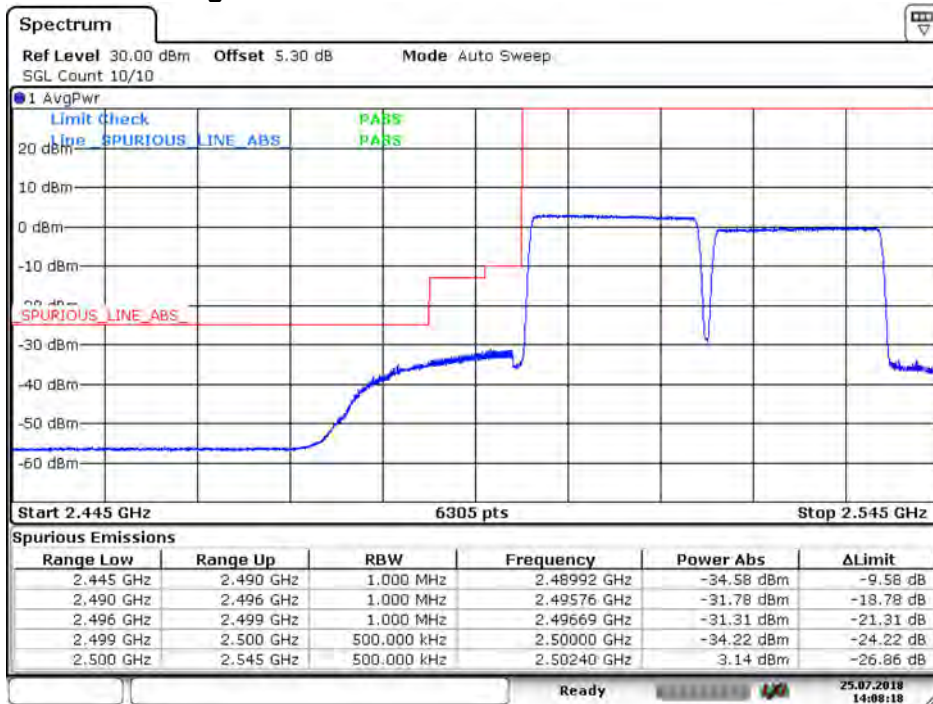
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5.1.2.2.1.2 RB Configuration =18RB#0-0RB#0



Date: 25 JUL 2018 14:13:26

5.1.2.2.1.3 RB Configuration =100RB#0-100RB#0

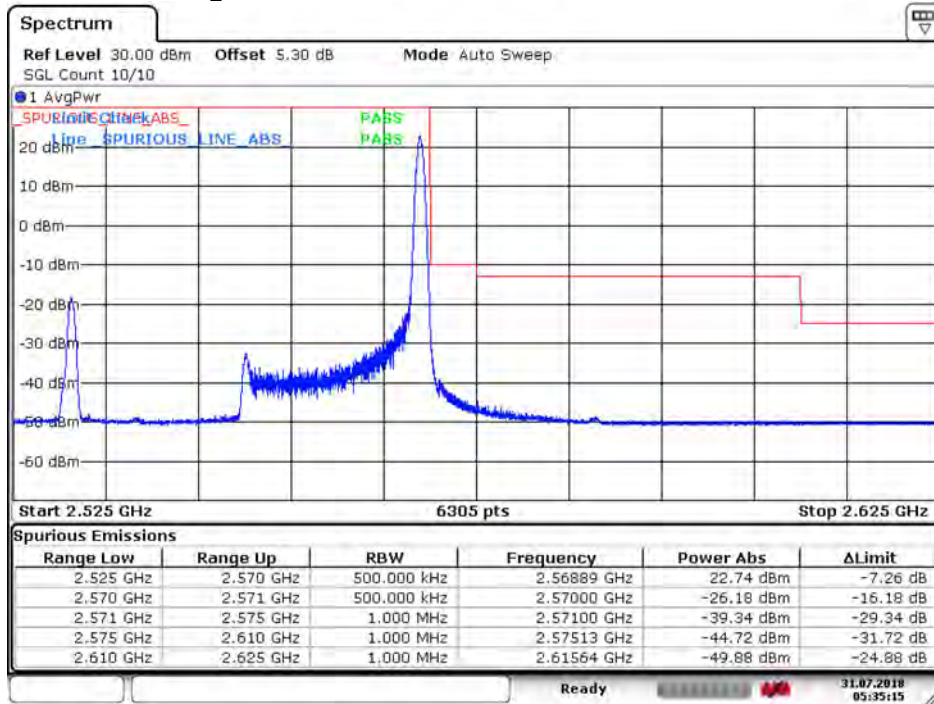


Date: 25 JUL 2018 14:08:19

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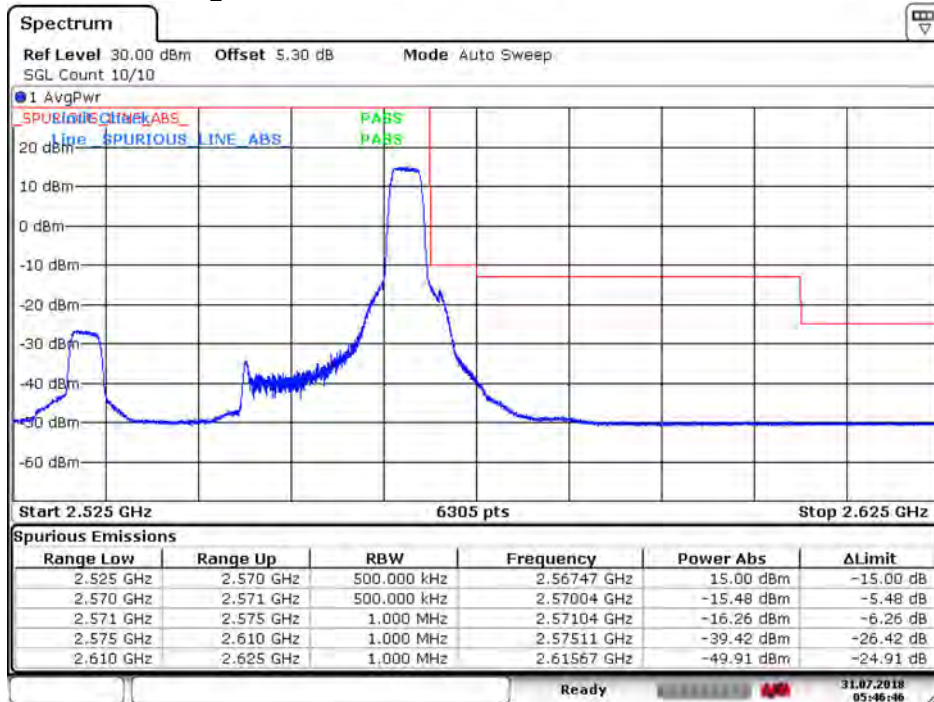
5.1.2.2.2 Test Channel = 21152-21350

5.1.2.2.2.1 RB Configuration =1RB#99-0RB#0



Date: 31 JUL 2018 05:35:15

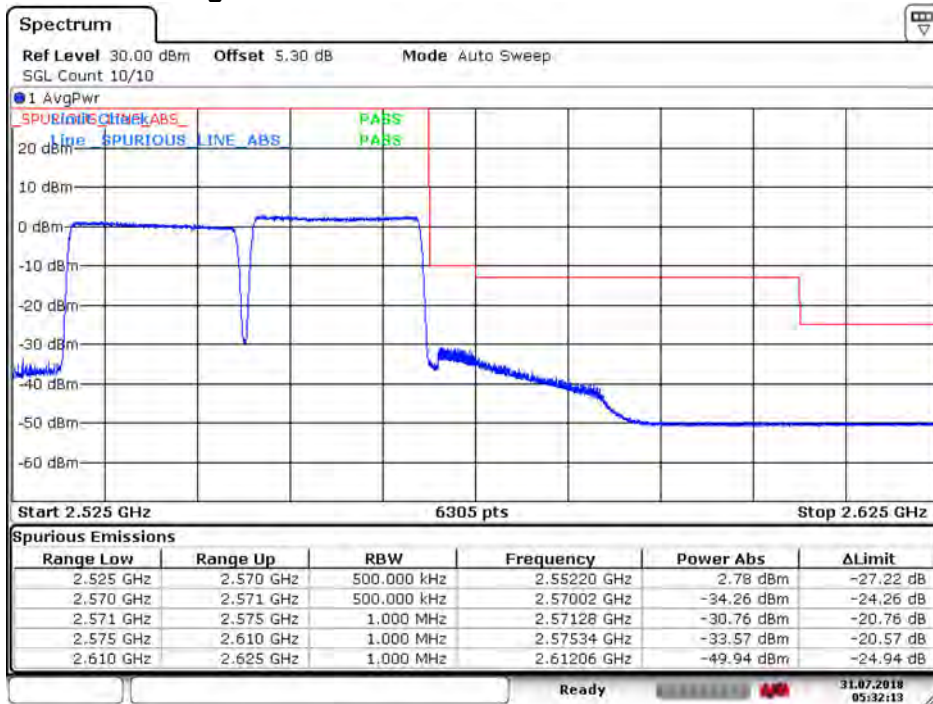
5.1.2.2.2.2 RB Configuration =18RB#82-0RB#0



Date: 31 JUL 2018 05:46:46

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5.1.2.2.3 RB Configuration =100RB#0-100RB#0

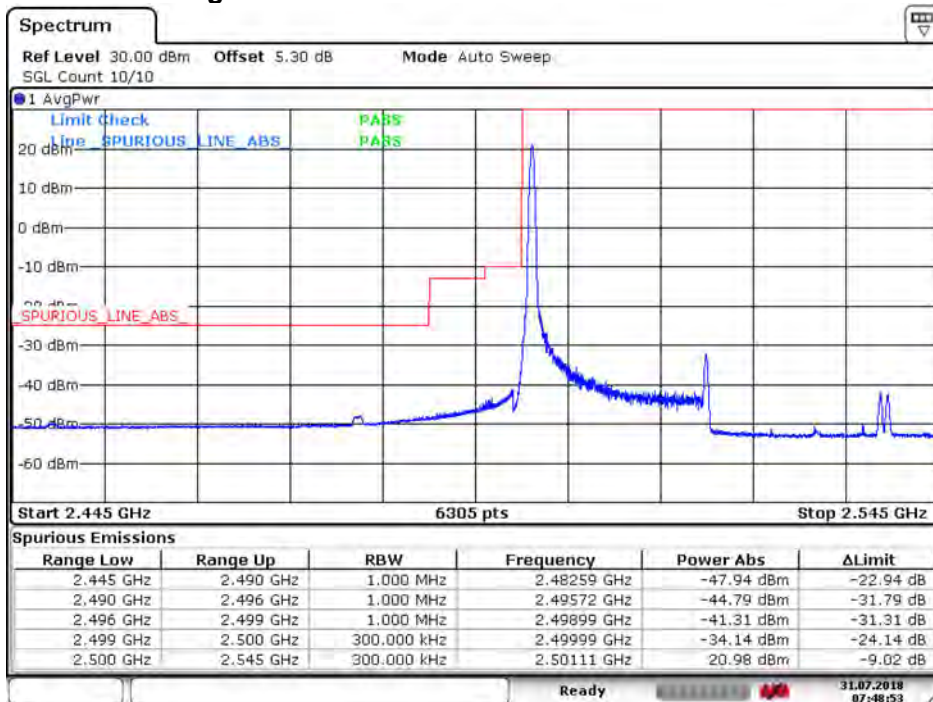


Date: 31 JUL 2018 05:32:14

5.1.2.3 Test Mode = LTE/TM3

5.1.2.3.1 Test Channel = 20850-21048

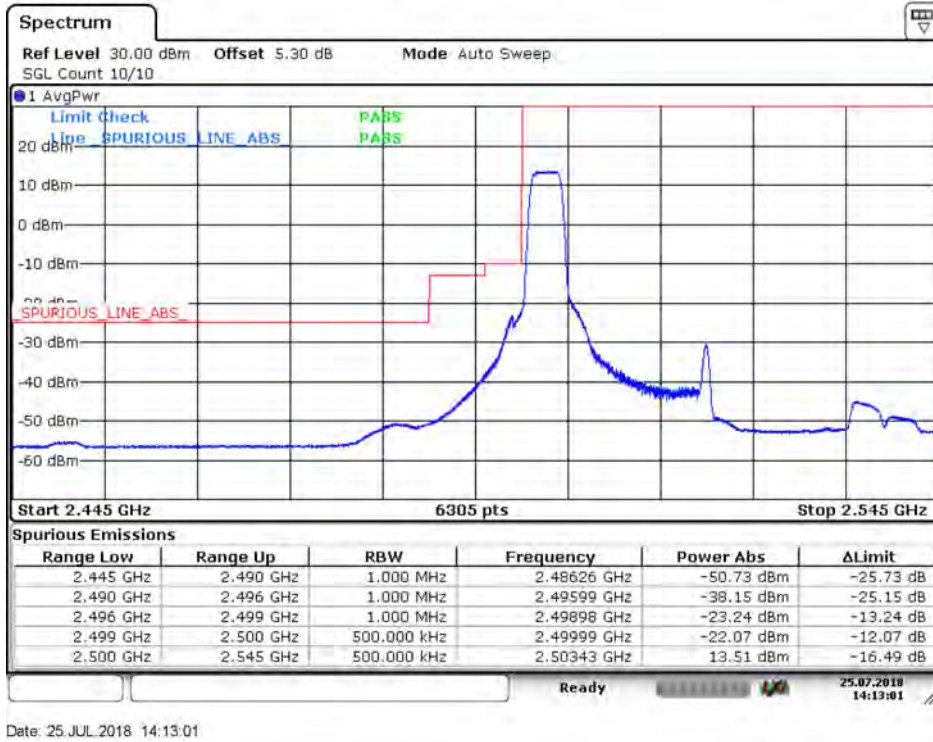
5.1.2.3.1.1 RB Configuration =1RB#0-0RB#0



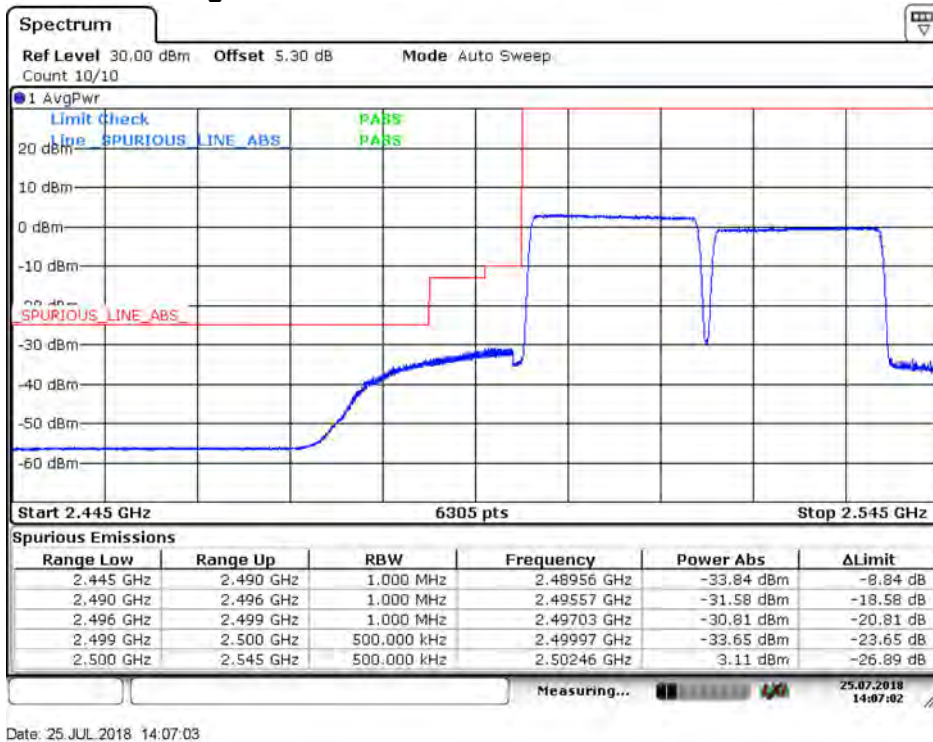
Date: 31 JUL 2018 07:48:54

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5.1.2.3.1.2 RB Configuration =18RB#0-0RB#0



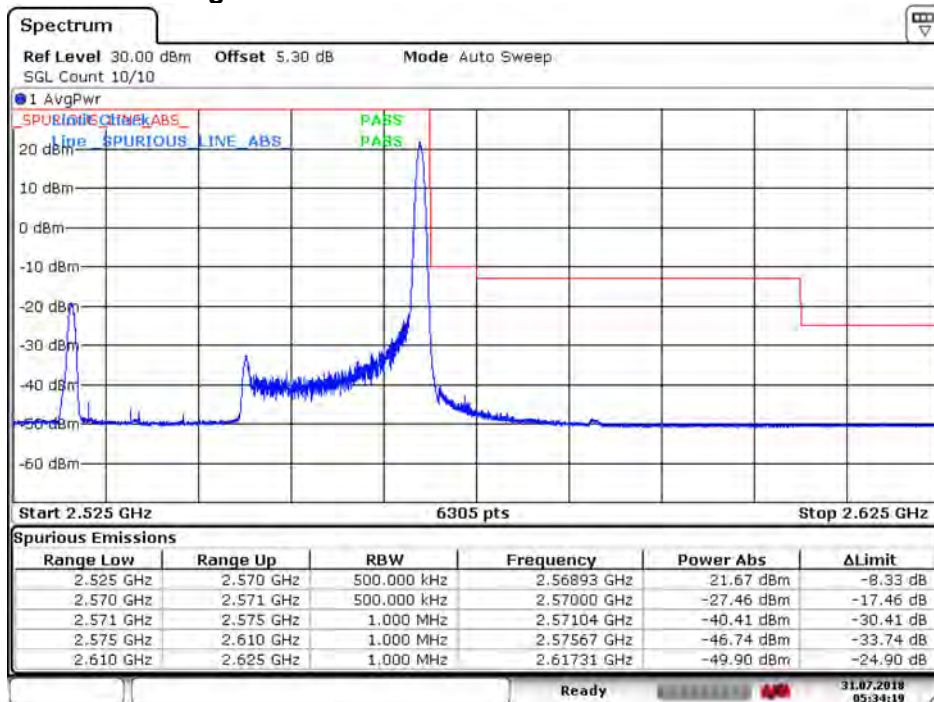
5.1.2.3.1.3 RB Configuration =100RB#0-100RB#0



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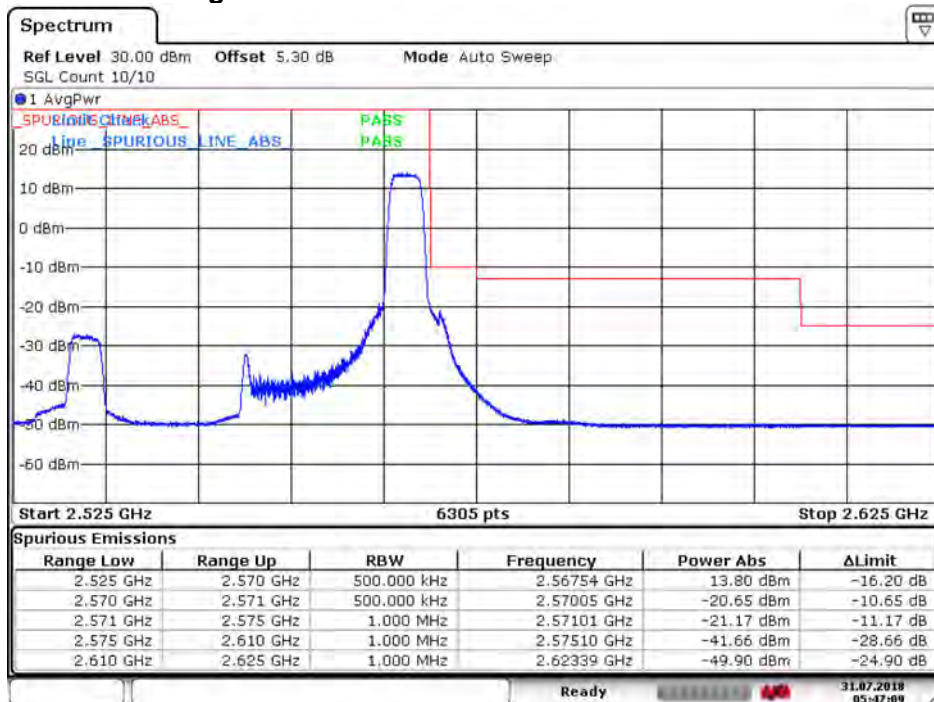
5.1.2.3.2 Test Channel = 21152-21350

5.1.2.3.2.1 RB Configuration =1RB#99-0RB#0



Date: 31 JUL 2018 05:34:19

5.1.2.3.2.2 RB Configuration =18RB#82-0RB#0

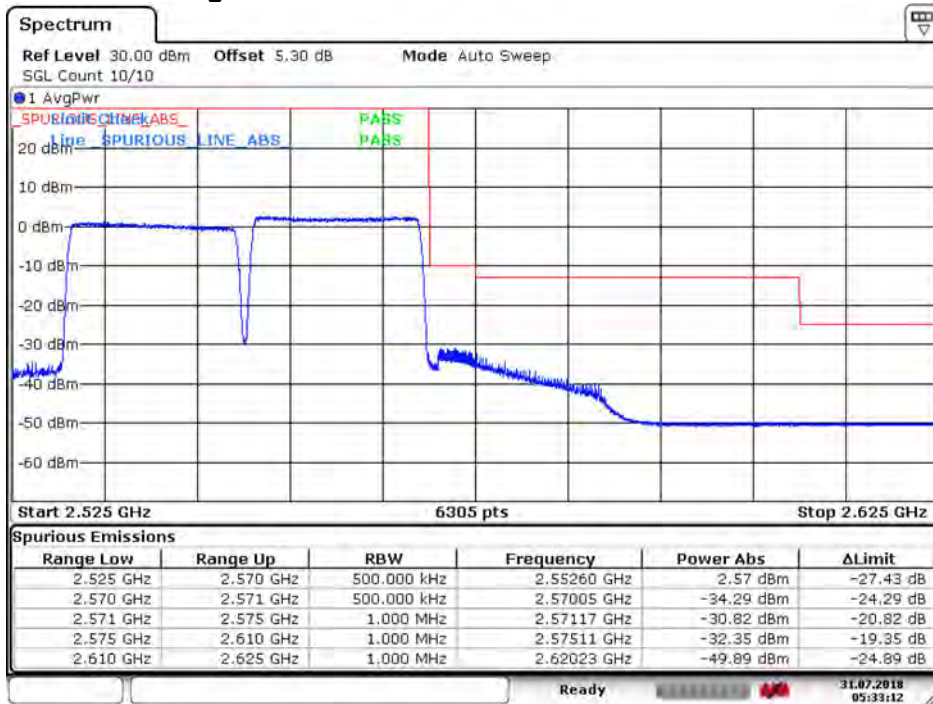


Date: 31 JUL 2018 05:47:10

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5.1.2.3.2.3 RB Configuration =100RB#0-100RB#0



Date: 31.JUL.2018 05:33:12

6 Spurious Emission at Antenna Terminal

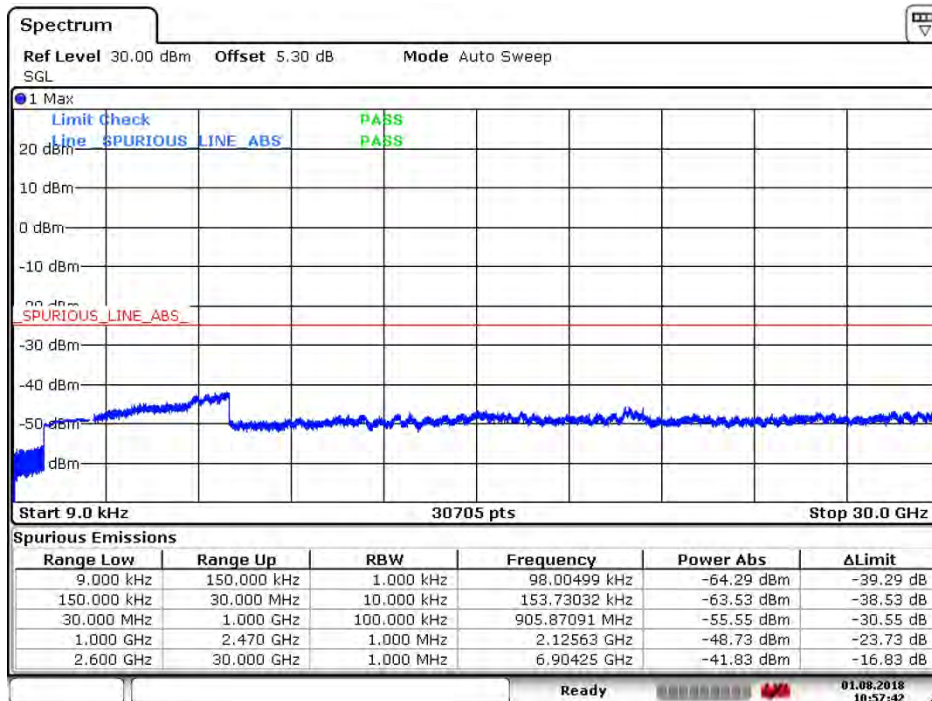
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE2: only the worst case data displayed in this report.

6.1 For LTE_CA_7C

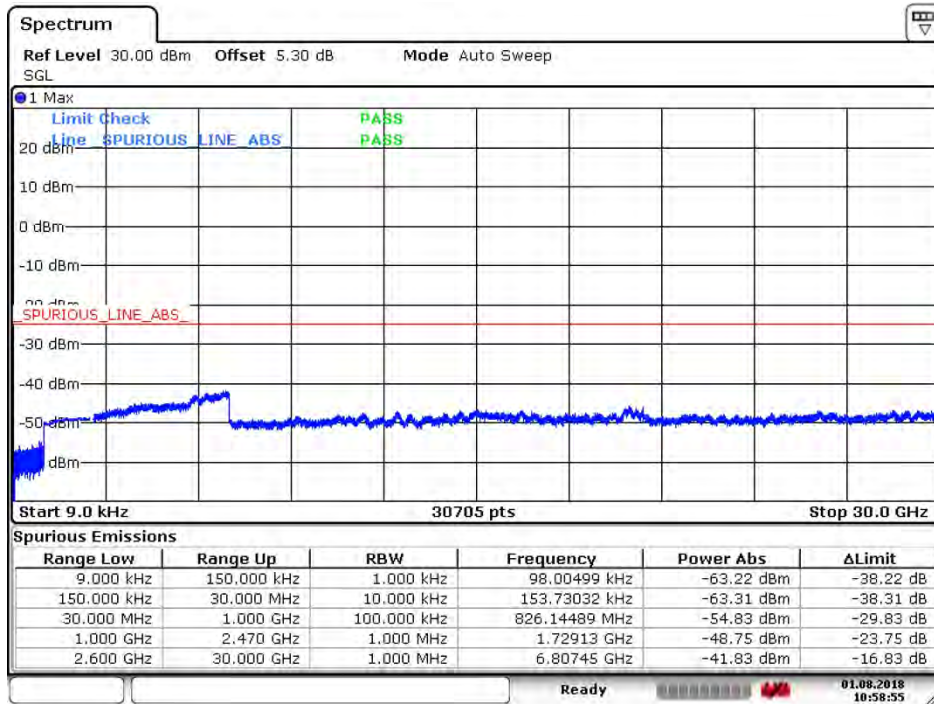
6.1.1 Test Band = Bandwidth=75RB+75RB

6.1.1.1 Test Channel = 20825-20975



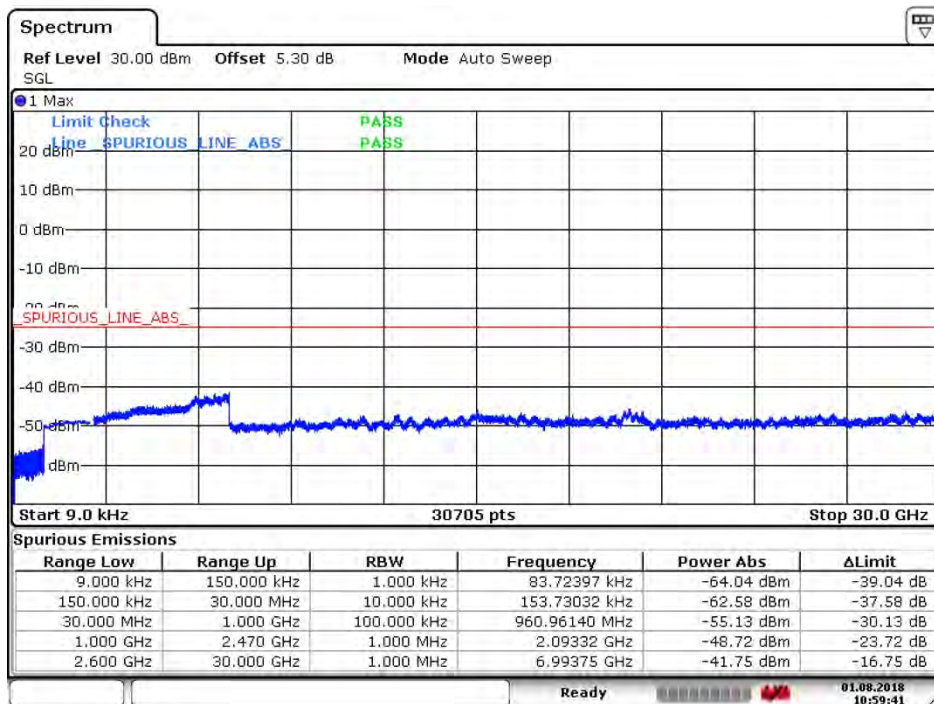
Date: 1.AUG.2018 10:57:42

6.1.1.1.2 Test Channel = 21025-21175



Date: 1.AUG.2018 10:58:54

6.1.1.1.3 Test Channel = 21225-21375

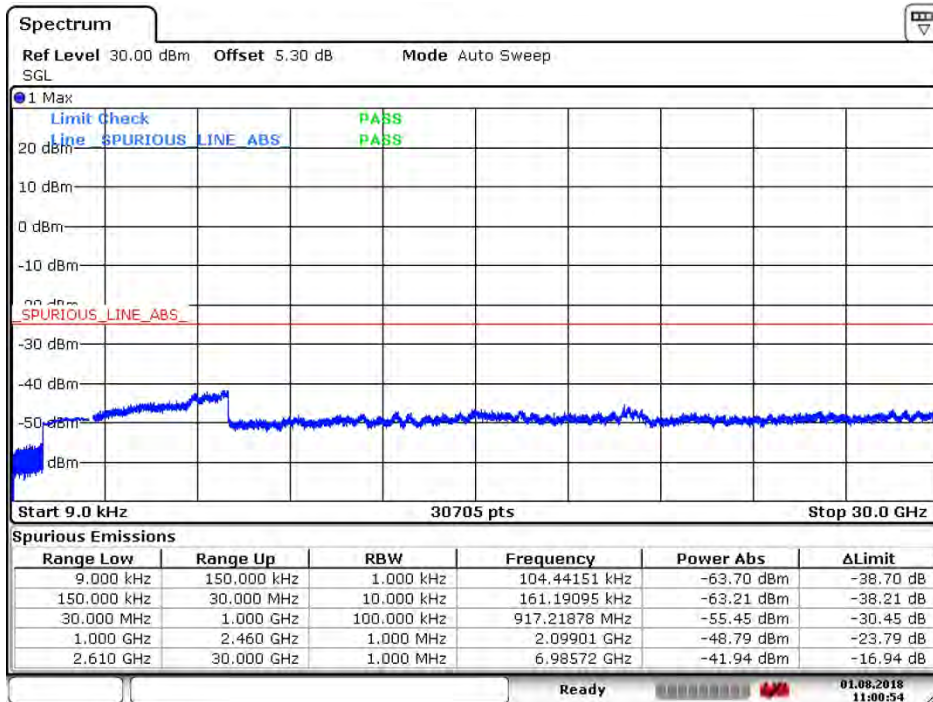


Date: 1.AUG.2018 10:59:41



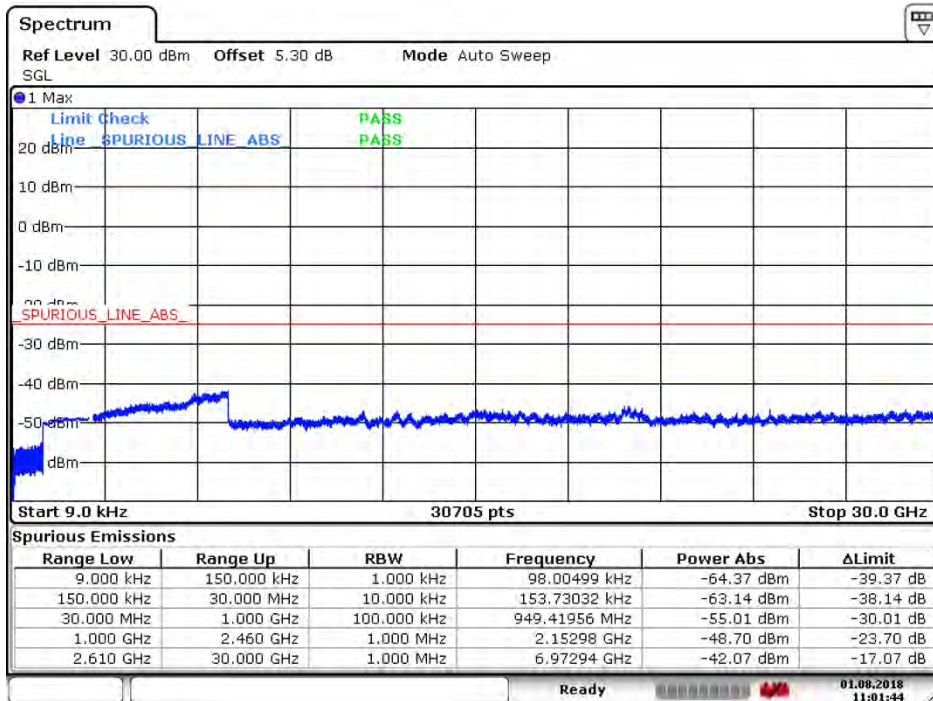
6.1.2 Test Band = Bandwidth=100RB+100RB

6.1.2.1.1 Test Channel = 20850-21048



Date: 1.AUG.2018 11:00:54

6.1.2.1.2 Test Channel = 21001-21199

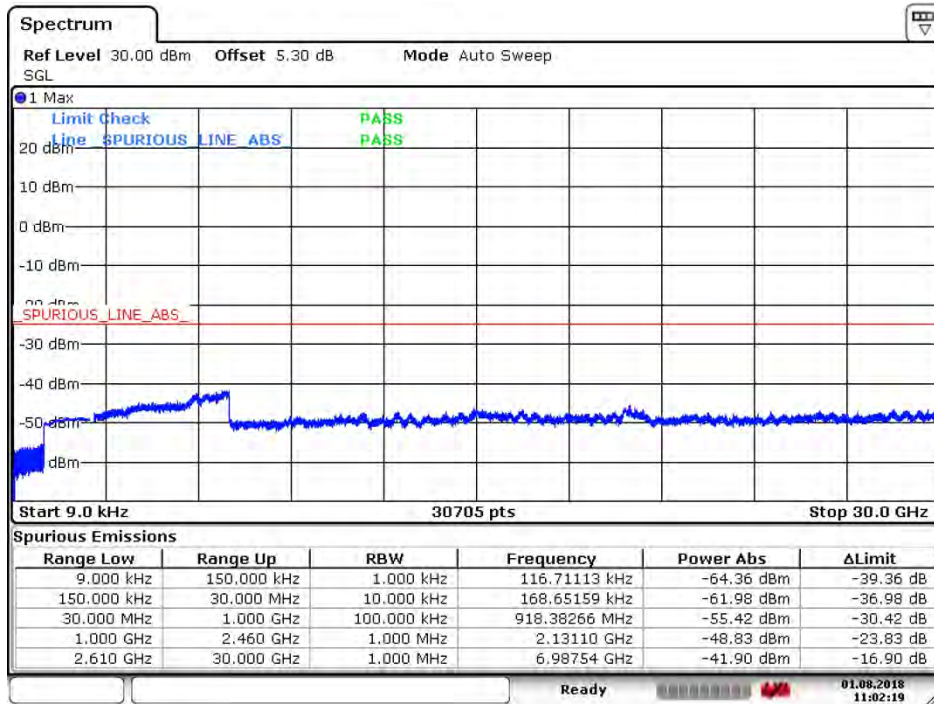


Date: 1.AUG.2018 11:01:44

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6.1.2.1.3 Test Channel = 21152-21350



Date: 1.AUG.2018 11:02:19

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7 Field Strength of Spurious Radiation

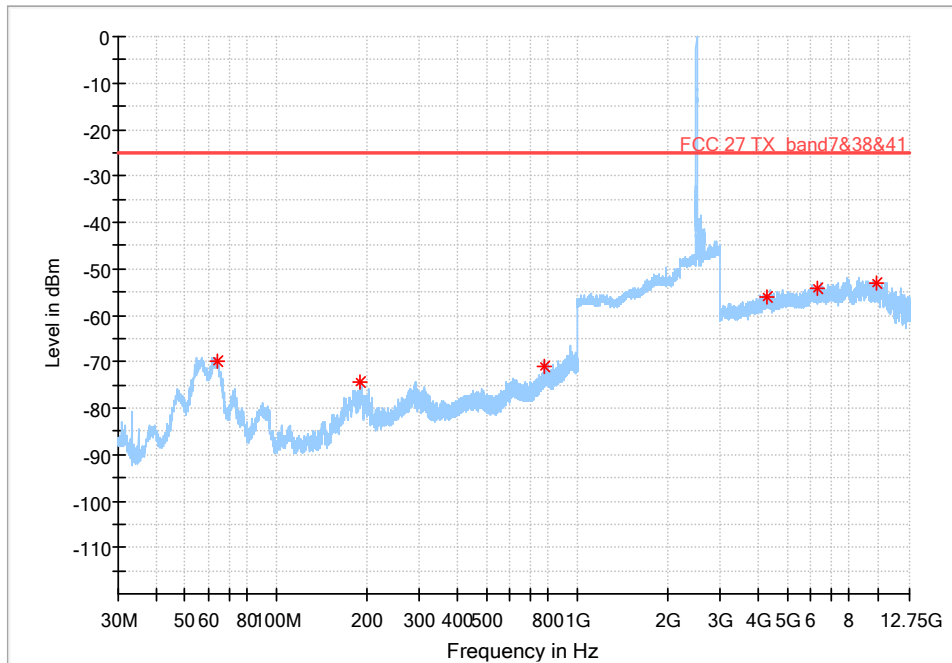
7.1 For LTE

7.1.1 Test Band = LTE Band CA_7C_Main Antenna

7.1.1.1 Test Mode =LTE/TM1 100RB+100RB

7.1.1.1.1 Test Channel = 20850-21048_H

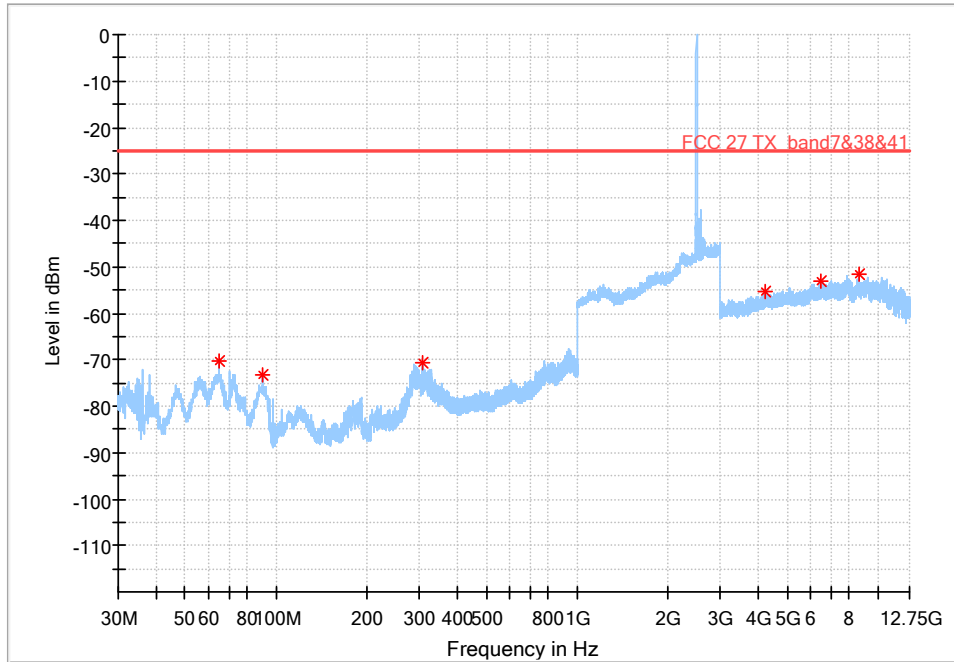
Full Spectrum





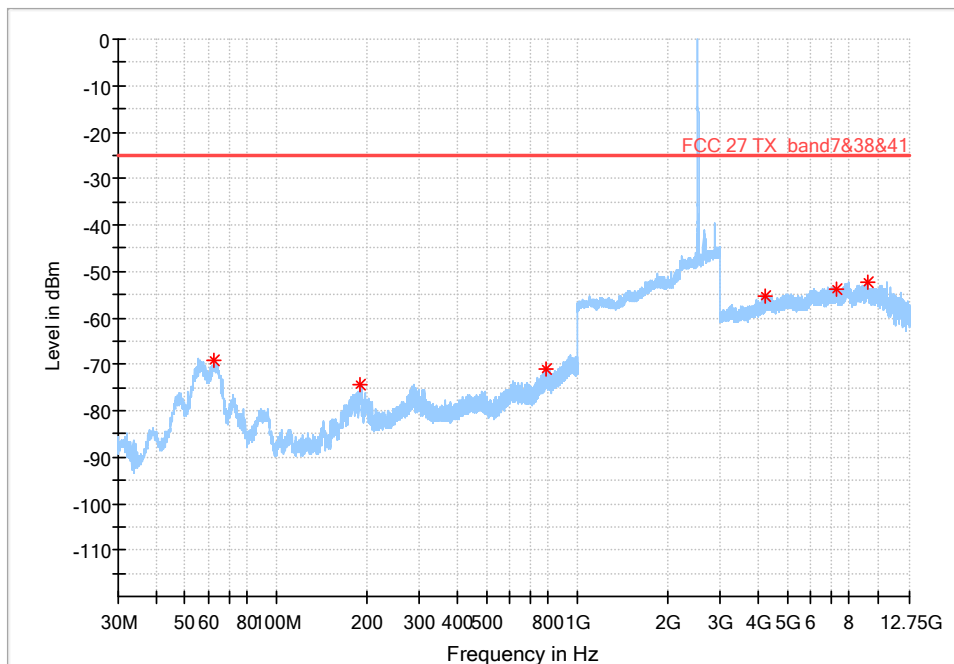
7.1.1.1.2 Test Channel = 20850-21048_V

Full Spectrum



7.1.1.1.3 Test Channel = 21001-21199_H

Full Spectrum

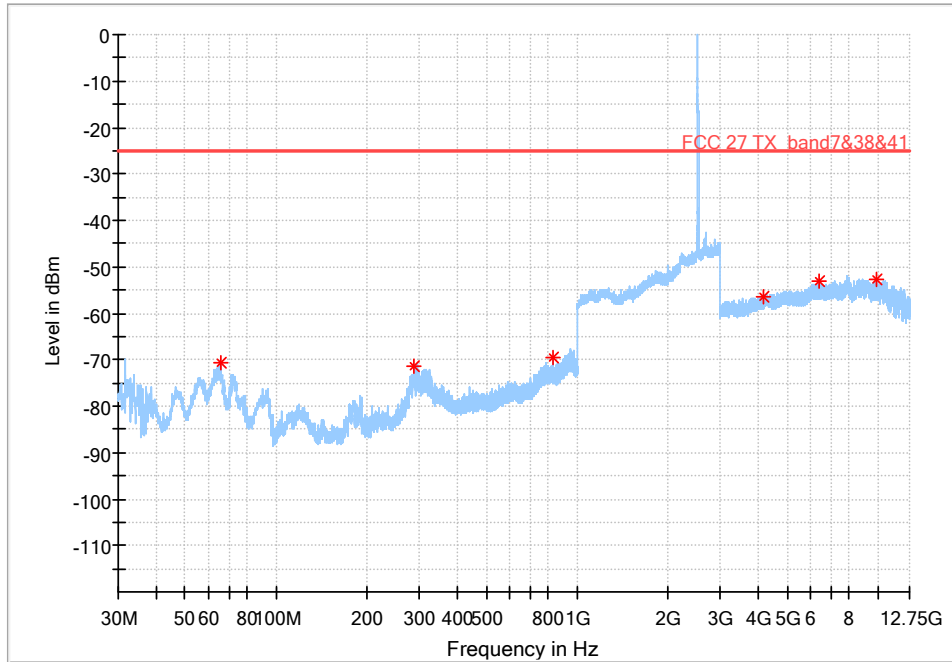


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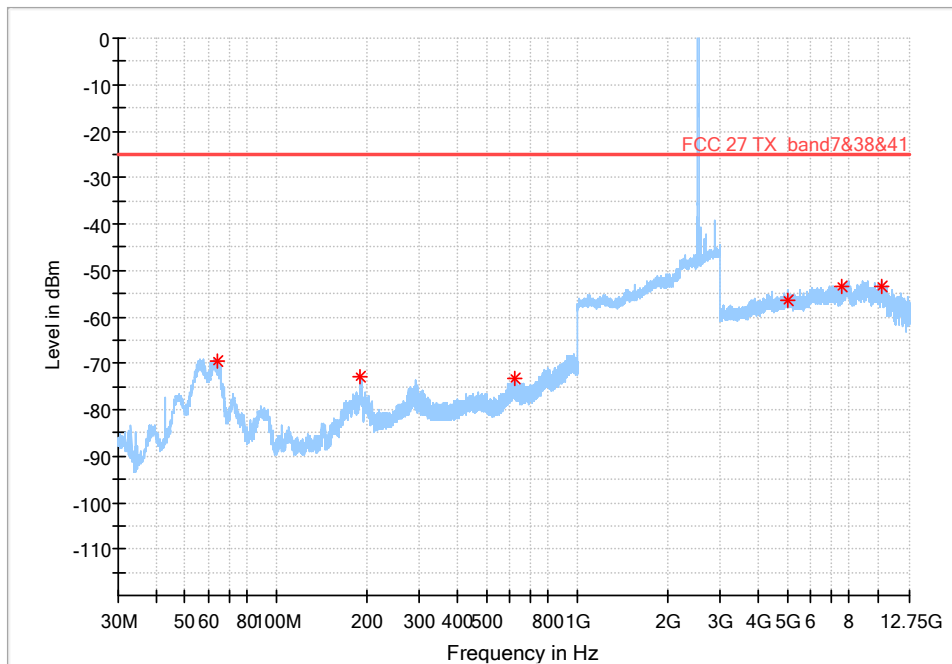
7.1.1.1.4 Test Channel = 21001-21199_V

Full Spectrum



7.1.1.1.5 Test Channel = 21152-21350_H

Full Spectrum

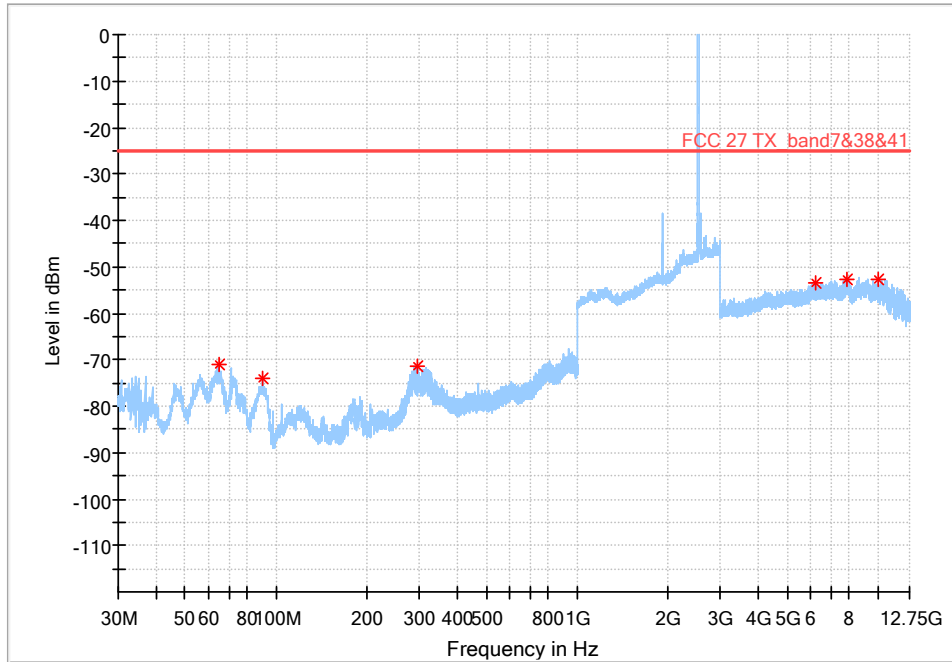


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7.1.1.1.6 Test Channel = 21152-21350_V

Full Spectrum



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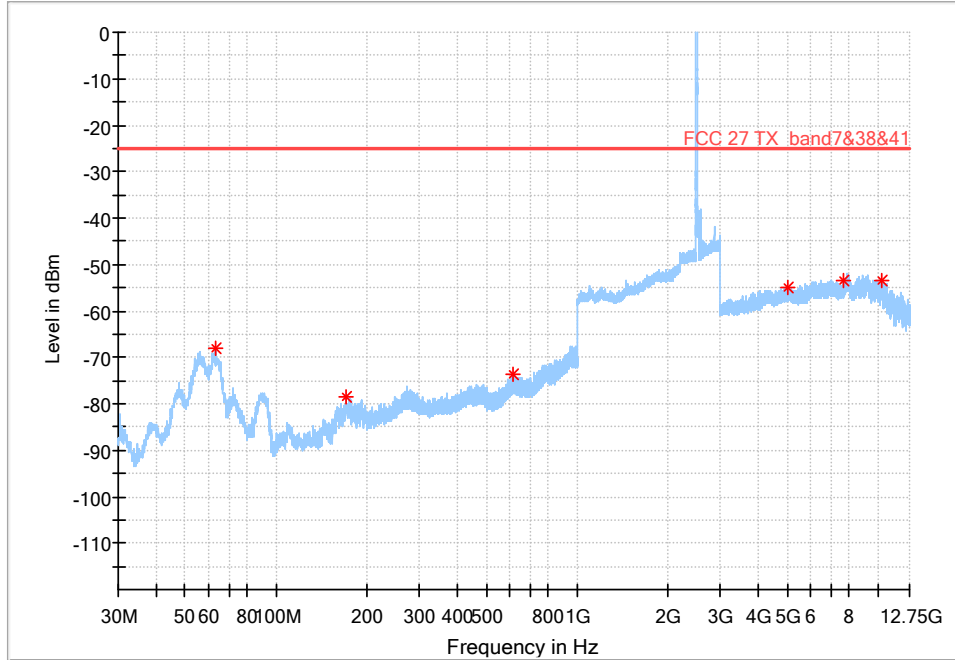


7.1.2 Test Band = LTE Band CA_7C_Secondary Antenna

7.1.2.1 Test Mode =LTE/TM1 100RB+100RB

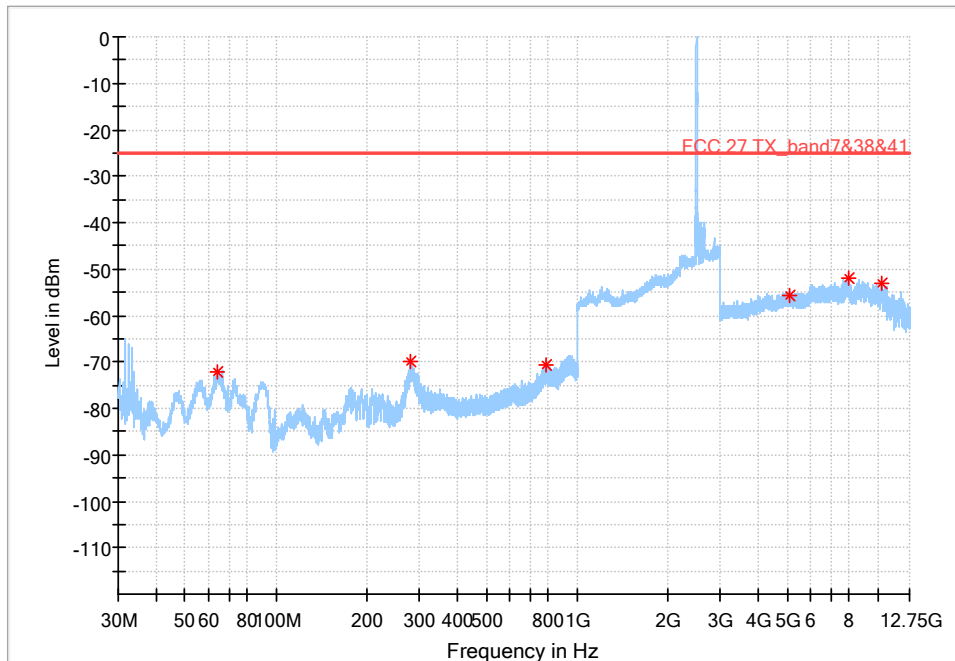
7.1.2.1.1 Test Channel = 20850-21048_H

Full Spectrum



7.1.2.1.2 Test Channel = 20850-21048_V

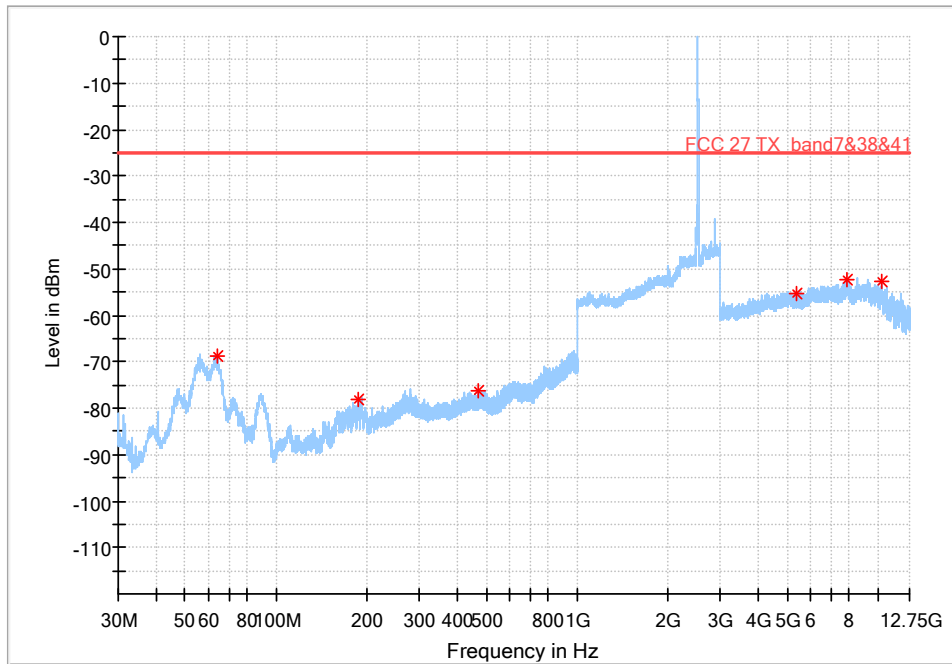
Full Spectrum





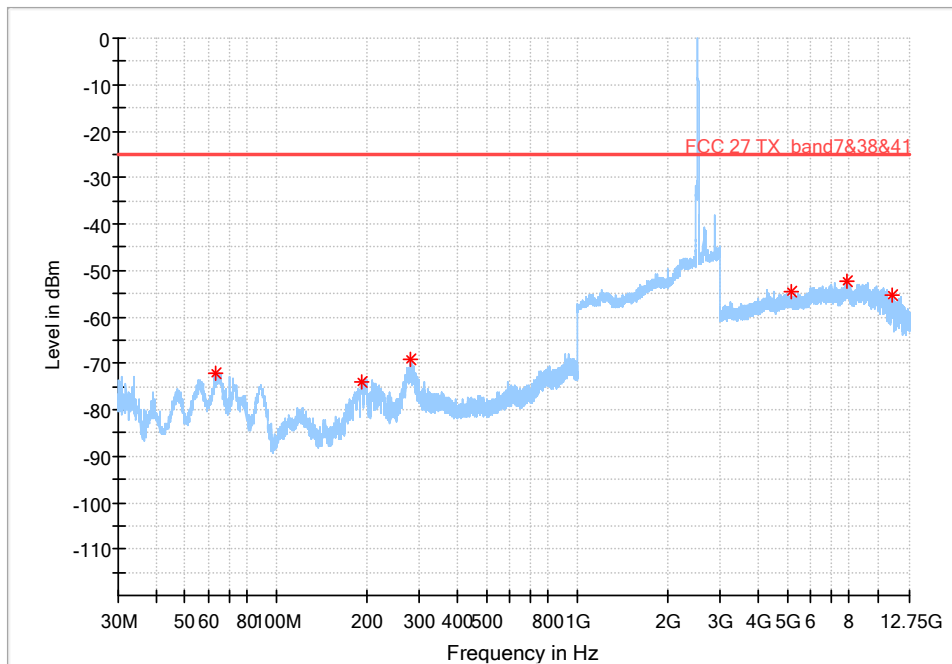
7.1.2.1.3 Test Channel = 21001-21199_H

Full Spectrum



7.1.2.1.4 Test Channel = 21001-21199_V

Full Spectrum

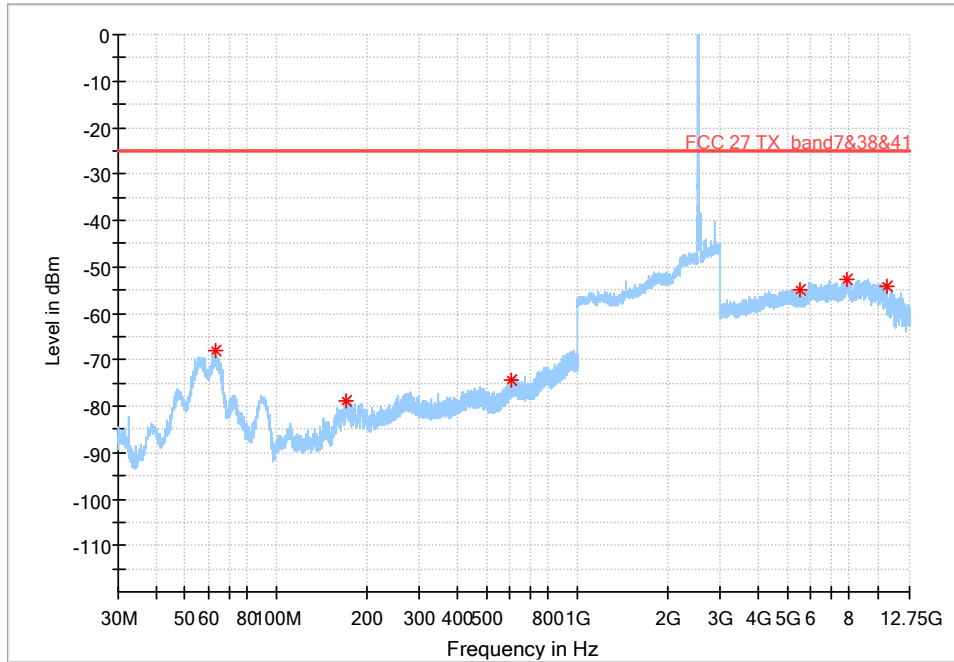


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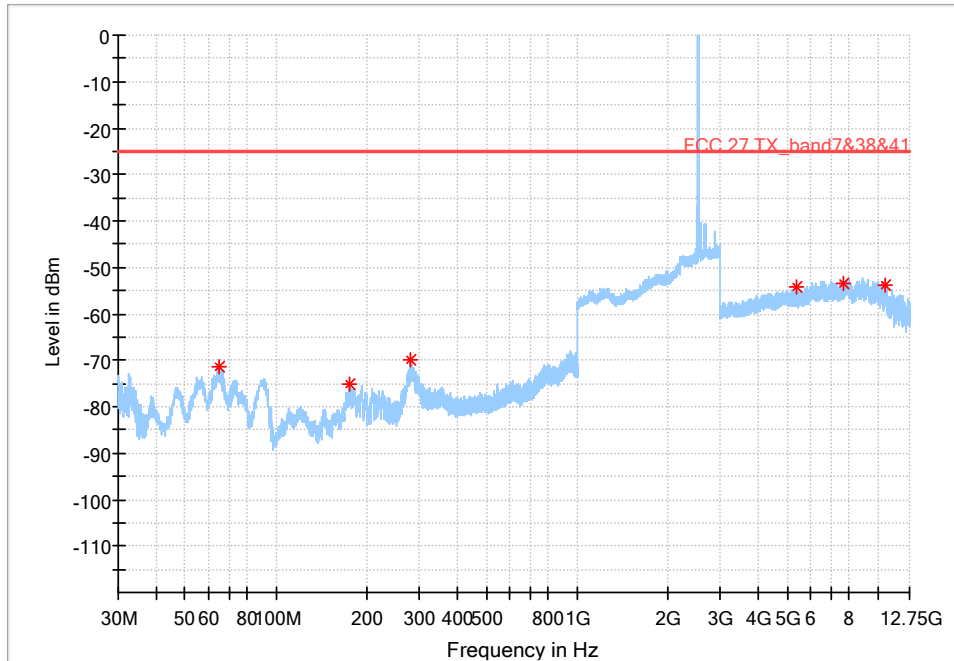
7.1.2.1.5 Test Channel = 21152-21350_H

Full Spectrum



7.1.2.1.6 Test Channel = 21152-21350_V

Full Spectrum



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NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case had been displayed.
- 2) We have tested all combinations and all modulations, but only the worst case data presented in this report.

8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM1 75RB+75RB	20825+20975	TN	VL	-5.47	-0.00218	PASS
				VN	7.53	0.00300	PASS
				VH	-4.77	-0.00190	PASS
		21025+21175	TN	VL	4.62	0.00183	PASS
				VN	-9.81	-0.00388	PASS
				VH	4.89	0.00194	PASS
		21225+21375	TN	VL	-7.73	-0.00303	PASS
				VN	-0.55	-0.00022	PASS
				VH	-1.93	-0.00076	PASS
	LTE/TM2 75RB+75RB	20825+20975	TN	VL	-8.01	-0.00319	PASS
				VN	-9.24	-0.00368	PASS
				VH	-4.74	-0.00189	PASS
		21025+21175	TN	VL	-2.11	-0.00083	PASS
				VN	8.99	0.00356	PASS
				VH	8.50	0.00336	PASS
		21225+21375	TN	VL	3.35	0.00132	PASS
				VN	-8.57	-0.00336	PASS
				VH	-3.95	-0.00155	PASS
	LTE/TM3 75RB+75RB	20825+20975	TN	VL	-4.87	-0.00194	PASS
				VN	-9.34	-0.00373	PASS
				VH	3.42	0.00136	PASS
		21025+21175	TN	VL	4.04	0.00160	PASS
				VN	-6.30	-0.00249	PASS
				VH	-9.72	-0.00384	PASS
21225+21375		TN	VL	7.88	0.00309	PASS	
			VN	-2.90	-0.00114	PASS	
			VH	5.32	0.00209	PASS	

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**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM1 100RB+100RB	20850+21048	TN	VL	-0.27	-0.00011	PASS
				VN	7.53	0.00300	PASS
				VH	-4.75	-0.00189	PASS
		21001+21199	TN	VL	-6.55	-0.00259	PASS
				VN	8.92	0.00353	PASS
				VH	2.04	0.00081	PASS
		21152+21350	TN	VL	7.27	0.00286	PASS
				VN	4.62	0.00182	PASS
				VH	5.99	0.00236	PASS
	LTE/TM2 100RB+100RB	20850+21048	TN	VL	0.65	0.00026	PASS
				VN	5.05	0.00201	PASS
				VH	-7.06	-0.00281	PASS
		21001+21199	TN	VL	-4.36	-0.00173	PASS
				VN	-1.29	-0.00051	PASS
				VH	3.03	0.00120	PASS
		21152+21350	TN	VL	-4.00	-0.00158	PASS
				VN	-1.22	-0.00048	PASS
				VH	3.50	0.00138	PASS
	LTE/TM3 100RB+100RB	20850+21048	TN	VL	0.14	0.00006	PASS
				VN	-4.09	-0.00163	PASS
				VH	0.53	0.00021	PASS
		21001+21199	TN	VL	-1.45	-0.00057	PASS
				VN	-3.47	-0.00137	PASS
				VH	-3.83	-0.00152	PASS
		21152+21350	TN	VL	1.37	0.00054	PASS
				VN	1.84	0.00072	PASS
				VH	9.98	0.00393	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
CA_7C	LTE/TM1 75RB+75RB	20825+20975	VN	-30	-6.89	-0.00275	PASS		
				-20	7.27	0.00290	PASS		
				-10	1.82	0.00073	PASS		
				0	-1.87	-0.00074	PASS		
				10	-8.76	-0.00349	PASS		
				20	8.04	0.00321	PASS		
				30	-4.68	-0.00187	PASS		
				40	2.05	0.00082	PASS		
				50	-0.78	-0.00031	PASS		
		21025+21175	VN	21025+21175	VN	-30	-5.27	-0.00208	PASS
						-20	-4.05	-0.00160	PASS
						-10	2.37	0.00094	PASS
						0	-5.66	-0.00224	PASS
						10	6.17	0.00244	PASS
						20	-5.45	-0.00216	PASS
						30	6.30	0.00249	PASS
						40	-0.02	-0.00001	PASS
						50	6.39	0.00253	PASS
		21225+21375	VN	21225+21375	VN	-30	7.34	0.00288	PASS
						-20	-0.50	-0.00020	PASS
						-10	-0.08	-0.00003	PASS
						0	-3.00	-0.00118	PASS
						10	-3.32	-0.00130	PASS
						20	5.61	0.00220	PASS
						30	5.48	0.00215	PASS
						40	5.91	0.00232	PASS
						50	-3.30	-0.00130	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM2 75RB+75RB	20825+20975	VN	-30	-1.74	-0.00069	PASS
				-20	0.20	0.00008	PASS
				-10	2.21	0.00088	PASS
				0	7.77	0.00310	PASS
				10	6.21	0.00248	PASS
				20	-1.64	-0.00065	PASS
				30	9.91	0.00395	PASS
				40	1.13	0.00045	PASS
		21025+21175	VN	-30	3.60	0.00143	PASS
				-20	-2.06	-0.00082	PASS
				-10	3.09	0.00122	PASS
				0	-8.47	-0.00335	PASS
				10	-4.37	-0.00173	PASS
				20	0.55	0.00022	PASS
				30	1.68	0.00067	PASS
				40	-4.49	-0.00178	PASS
		21225+21375	VN	-30	5.49	0.00216	PASS
				-20	3.52	0.00138	PASS
				-10	9.82	0.00385	PASS
				0	4.22	0.00166	PASS
				10	-0.95	-0.00037	PASS
				20	-6.59	-0.00259	PASS
				30	-6.70	-0.00263	PASS
				40	-0.31	-0.00012	PASS
		50	3.45	0.00135	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM3 75RB+75RB	20825+20975	VN	-30	1.50	0.00081	PASS
				-20	-1.60	-0.00086	PASS
				-10	4.38	0.00235	PASS
				0	1.69	0.00091	PASS
				10	1.43	0.00077	PASS
				20	0.54	0.00029	PASS
				30	-2.61	-0.00140	PASS
				40	-0.69	-0.00037	PASS
		21025+21175	VN	-30	-7.34	-0.00390	PASS
				-20	-5.33	-0.00284	PASS
				-10	-7.23	-0.00385	PASS
				0	-5.34	-0.00284	PASS
				10	-4.04	-0.00215	PASS
				20	-6.34	-0.00337	PASS
				30	-5.26	-0.00280	PASS
				40	-4.13	-0.00220	PASS
		21225+21375	VN	-30	2.34	0.00123	PASS
				-20	-1.83	-0.00096	PASS
				-10	1.57	0.00083	PASS
				0	-2.43	-0.00128	PASS
				10	1.60	0.00084	PASS
				20	-0.57	-0.00030	PASS
				30	0.66	0.00035	PASS
				40	-5.43	-0.00286	PASS
		50	-5.90	-0.00311	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM1 100RB+100RB	20850+21048	VN	-30	1.22	0.00049	PASS
				-20	6.57	0.00262	PASS
				-10	-0.14	-0.00006	PASS
				0	-1.30	-0.00052	PASS
				10	-0.69	-0.00027	PASS
				20	-4.14	-0.00165	PASS
				30	0.66	0.00026	PASS
				40	-9.88	-0.00394	PASS
		50	-2.93	-0.00117	PASS		
		21001+21199	VN	-30	-3.61	-0.00143	PASS
				-20	2.25	0.00089	PASS
				-10	2.43	0.00096	PASS
				0	4.54	0.00180	PASS
				10	6.57	0.00260	PASS
				20	2.44	0.00097	PASS
				30	7.44	0.00295	PASS
				40	8.84	0.00350	PASS
		50	-7.83	-0.00310	PASS		
		21152+21350	VN	-30	7.43	0.00293	PASS
				-20	8.54	0.00336	PASS
				-10	-7.90	-0.00311	PASS
				0	-0.62	-0.00024	PASS
				10	-7.43	-0.00293	PASS
				20	-8.18	-0.00322	PASS
30	5.80			0.00228	PASS		
40	8.55			0.00337	PASS		
50	-3.90	-0.00153	PASS				

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
CA_7C	LTE/TM2 100RB+100RB	20850+21048	VN	-30	4.75	0.00189	PASS		
				-20	-7.85	-0.00313	PASS		
				-10	8.52	0.00340	PASS		
				0	-4.34	-0.00173	PASS		
				10	4.26	0.00170	PASS		
				20	3.71	0.00148	PASS		
				30	0.95	0.00038	PASS		
				40	-7.40	-0.00295	PASS		
		21001+21199	VN	21001+21199	VN	-30	-2.26	-0.00090	PASS
						-20	-1.03	-0.00041	PASS
						-10	3.31	0.00131	PASS
						0	5.68	0.00225	PASS
						10	-4.52	-0.00179	PASS
						20	8.18	0.00324	PASS
						30	2.47	0.00098	PASS
						40	0.43	0.00017	PASS
		21152+21350	VN	21152+21350	VN	-30	-7.17	-0.00282	PASS
						-20	-2.66	-0.00105	PASS
						-10	-2.13	-0.00084	PASS
						0	0.07	0.00003	PASS
						10	-9.00	-0.00354	PASS
						20	8.02	0.00316	PASS
						30	-5.99	-0.00236	PASS
						40	-2.02	-0.00079	PASS
				50	9.41	0.00371	PASS		

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	LTE/TM3 100RB+100RB	20850+21048	VN	-30	-3.52	-0.00140	PASS
				-20	3.78	0.00150	PASS
				-10	-8.52	-0.00339	PASS
				0	6.71	0.00267	PASS
				10	-6.12	-0.00244	PASS
				20	0.21	0.00009	PASS
				30	-8.71	-0.00347	PASS
				40	-9.27	-0.00369	PASS
				50	8.77	0.00349	PASS
		21001+21199	VN	-30	8.35	0.00331	PASS
				-20	-1.19	-0.00047	PASS
				-10	-8.64	-0.00342	PASS
				0	-5.29	-0.00209	PASS
				10	1.03	0.00041	PASS
				20	-4.56	-0.00181	PASS
				30	-0.18	-0.00007	PASS
				40	4.52	0.00179	PASS
		21152+21350	VN	-30	0.80	0.00032	PASS
				-20	-5.36	-0.00211	PASS
				-10	3.06	0.00120	PASS
				0	6.05	0.00238	PASS
				10	-9.56	-0.00376	PASS
				20	-1.23	-0.00049	PASS
				30	-1.37	-0.00054	PASS
40	4.62			0.00182	PASS		
		50	9.31	0.00367	PASS		

The End

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