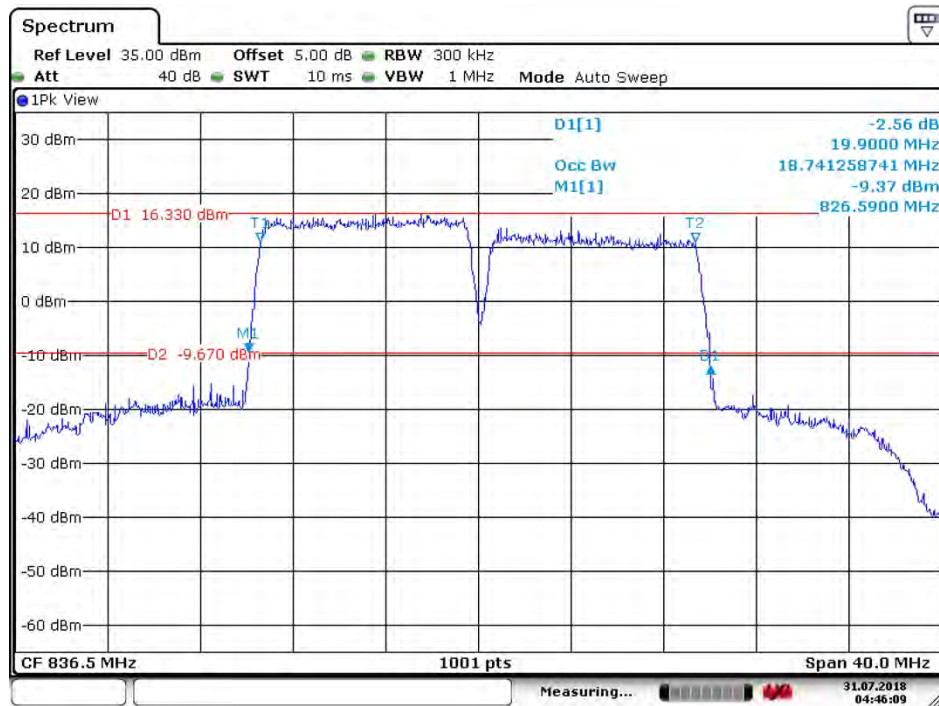


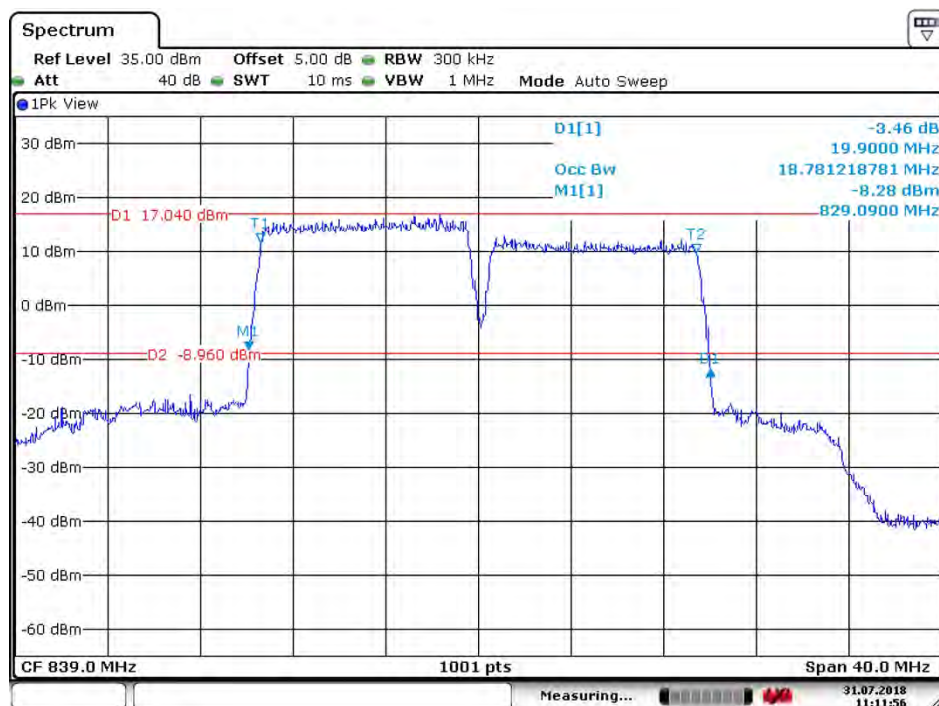


4.1.2.2.2 Test Channel = 20476-20575



Date: 31.JUL.2018 04:46:09

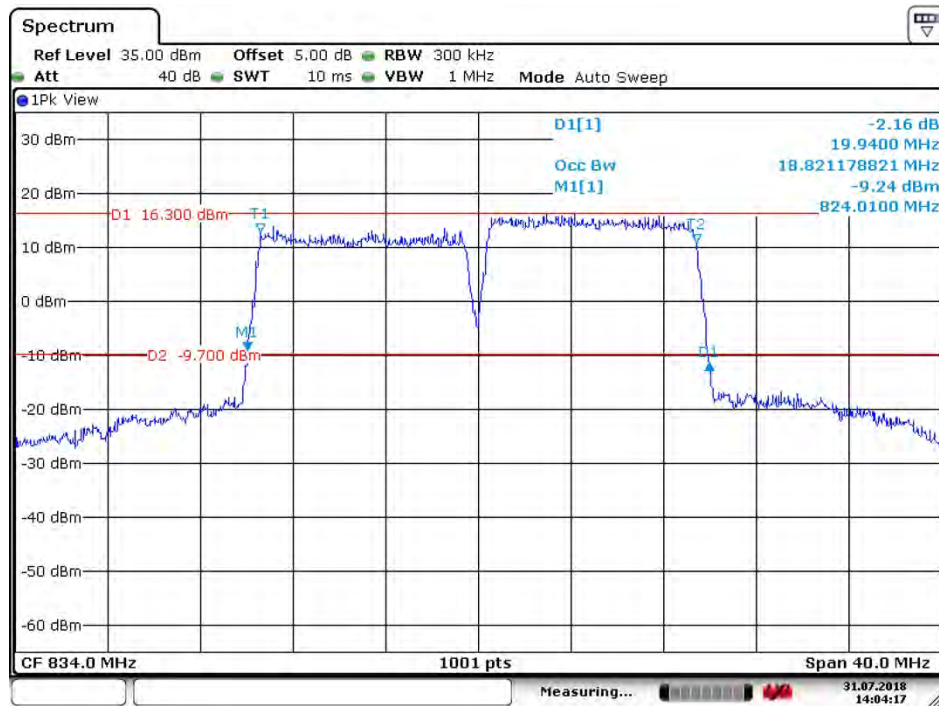
4.1.2.2.3 Test Channel = 20501-20600



Date: 31.JUL.2018 11:11:57

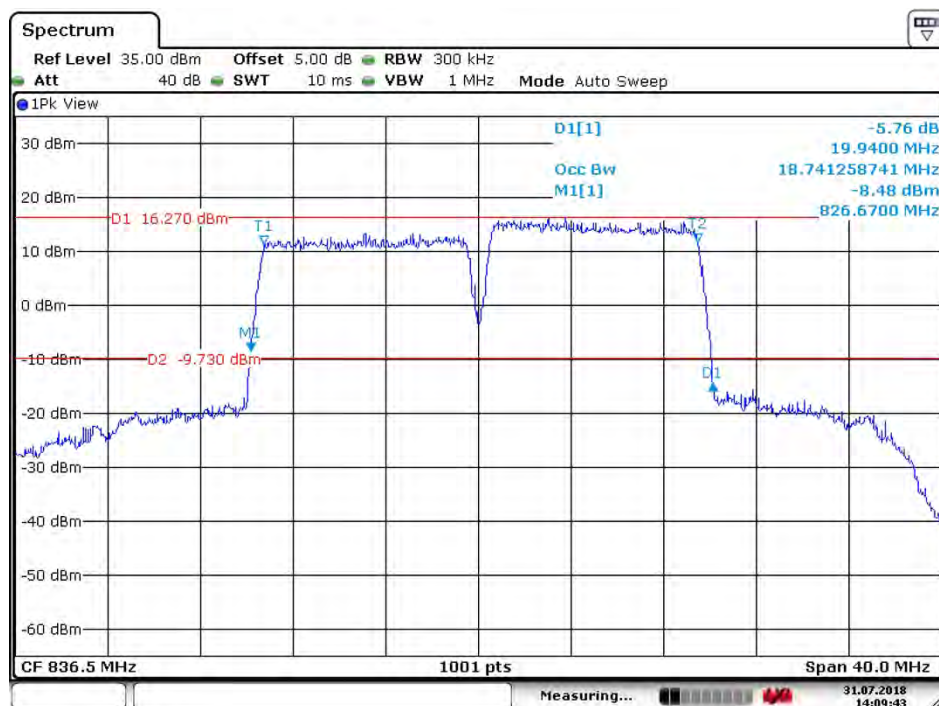


4.1.2.2.4 Test Channel = 20549-20450



Date: 31.JUL.2018 14:04:16

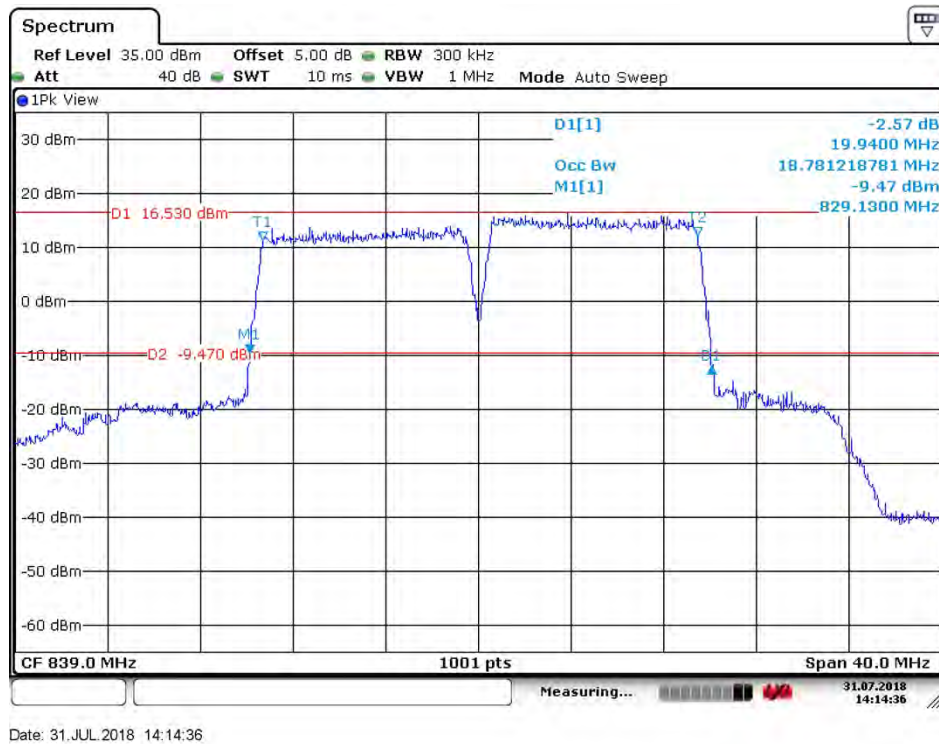
4.1.2.2.5 Test Channel = 20575-20476



Date: 31.JUL.2018 14:09:43

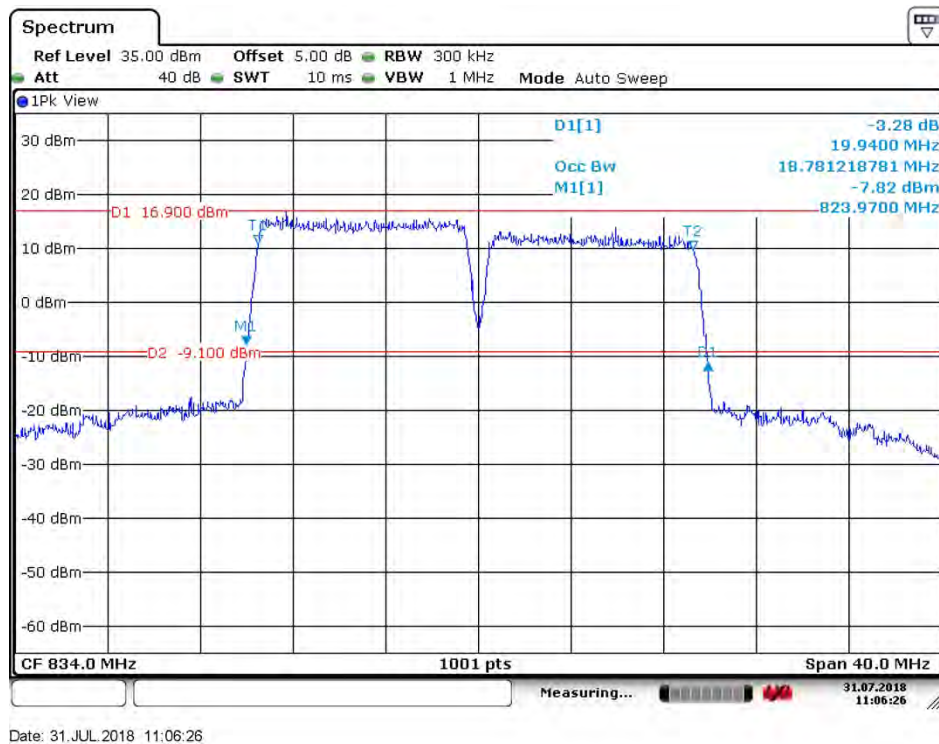


4.1.2.2.6 Test Channel = 20600-20501



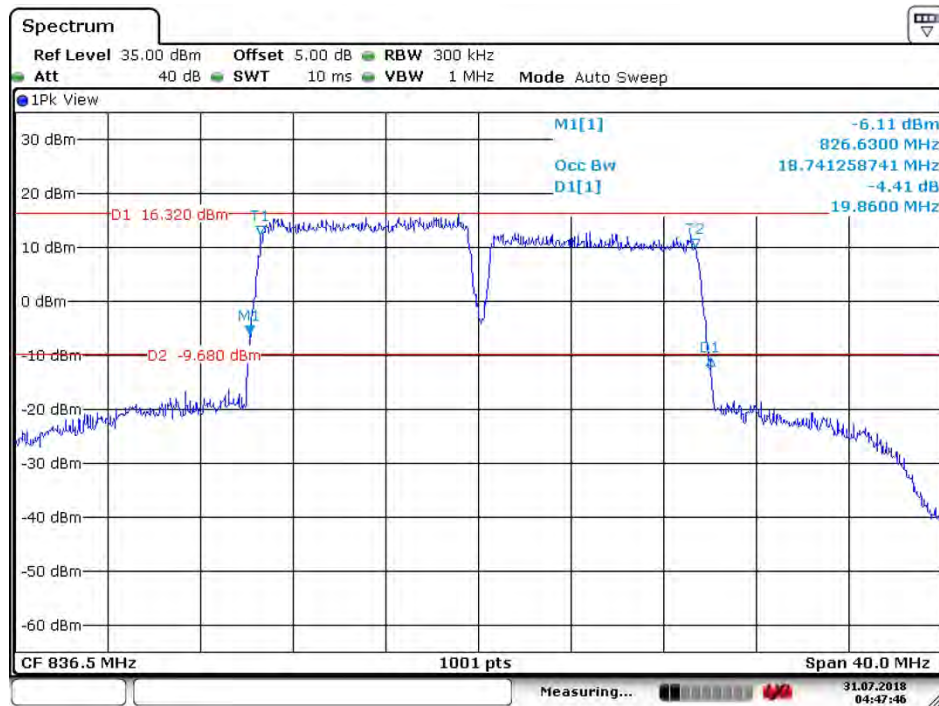
4.1.2.3 Test Mode = LTE/TM3

4.1.2.3.1 Test Channel = 20450-20549

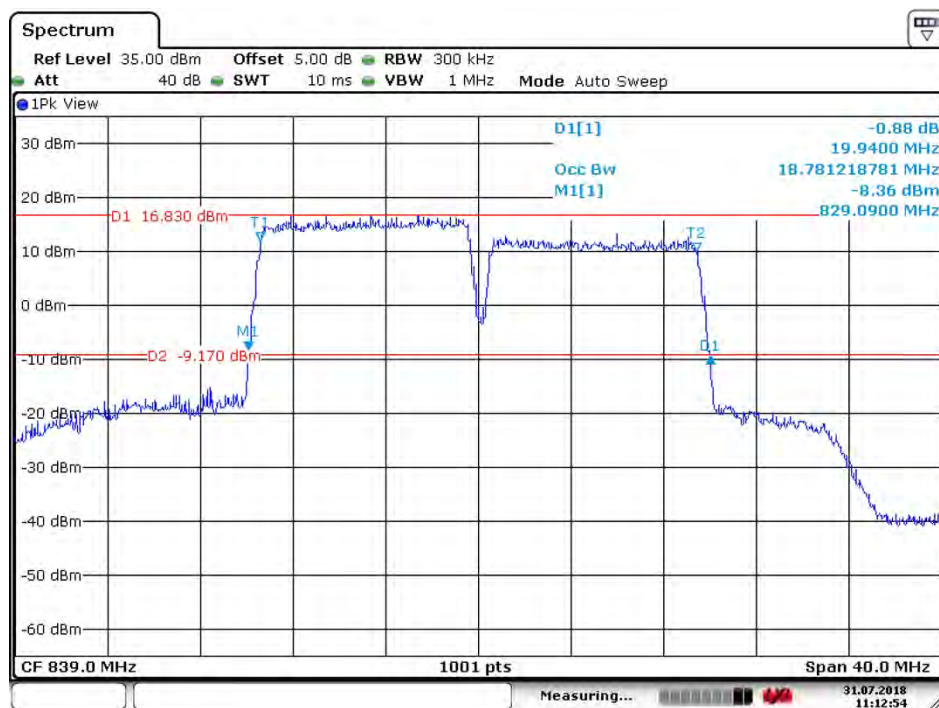




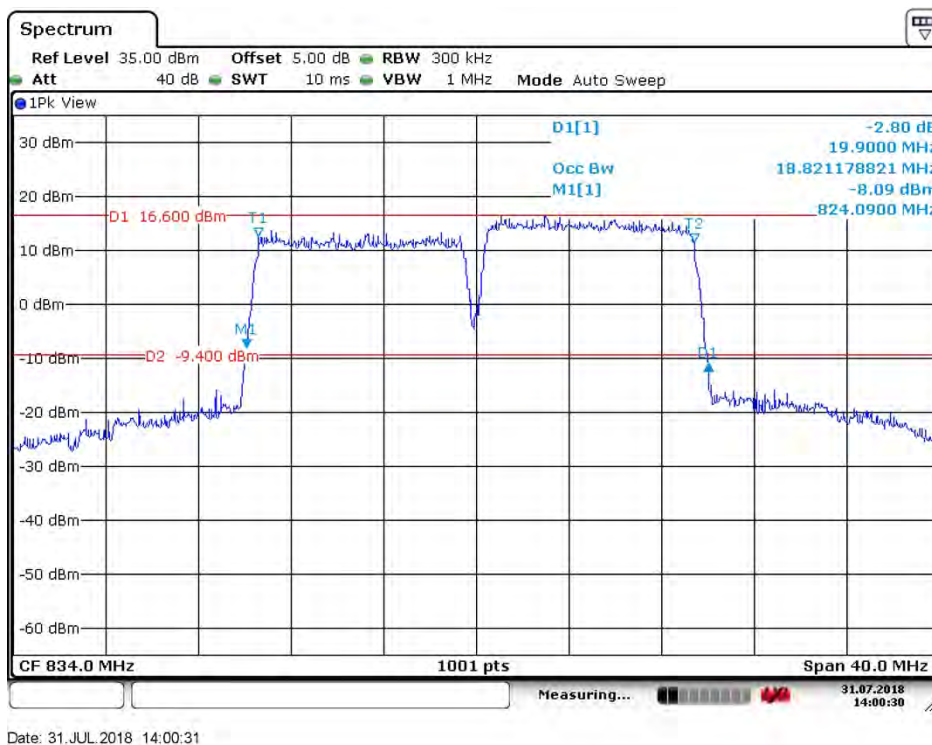
4.1.2.3.2 Test Channel = 20476-20575



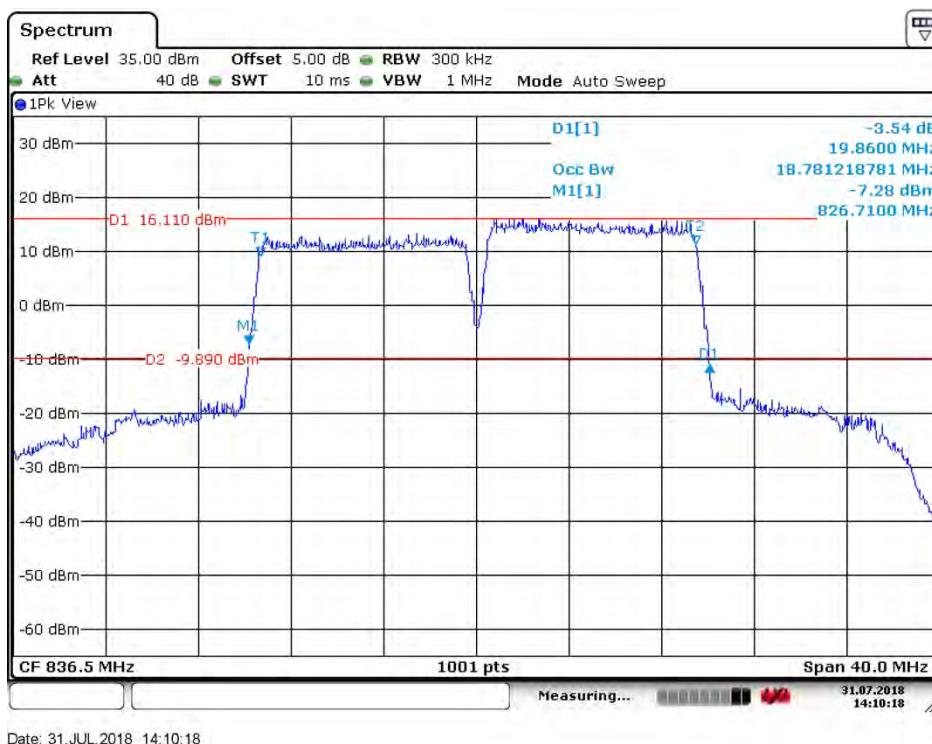
4.1.2.3.3 Test Channel = 20501-20600



4.1.2.3.4 Test Channel = 20549-20450

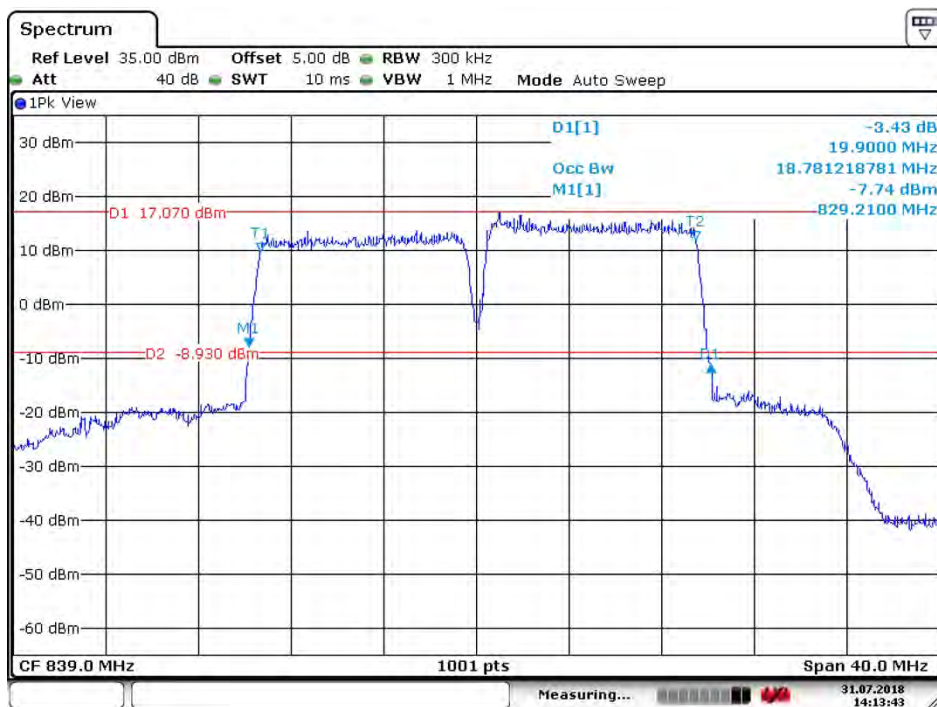


4.1.2.3.5 Test Channel = 20575-20476





4.1.2.3.6 Test Channel = 20600-20501



Date: 31.JUL.2018 14:13:44

5 Band Edges Compliance

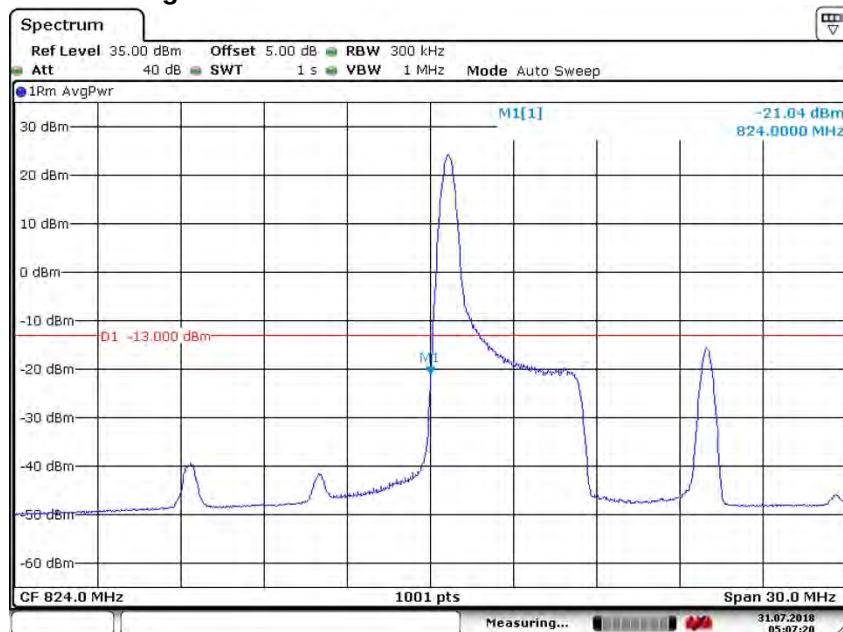
5.1 For LTE_CA_5B

5.1.1 Test Band = Bandwidth=25RB+50RB

5.1.1.1 Test Mode = LTE/TM1

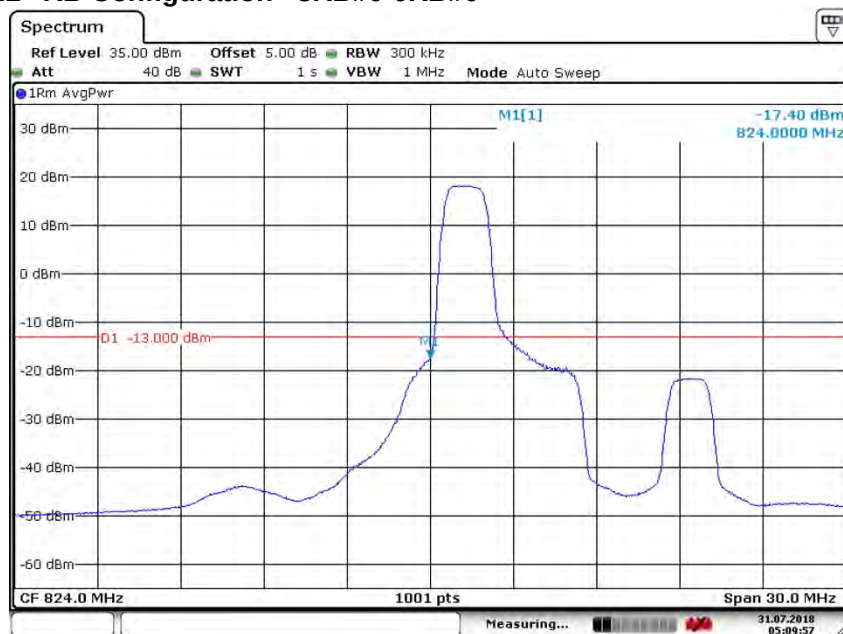
5.1.1.1.1 Test Channel = 20428-20500

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



Date: 31.JUL.2018 05:07:21

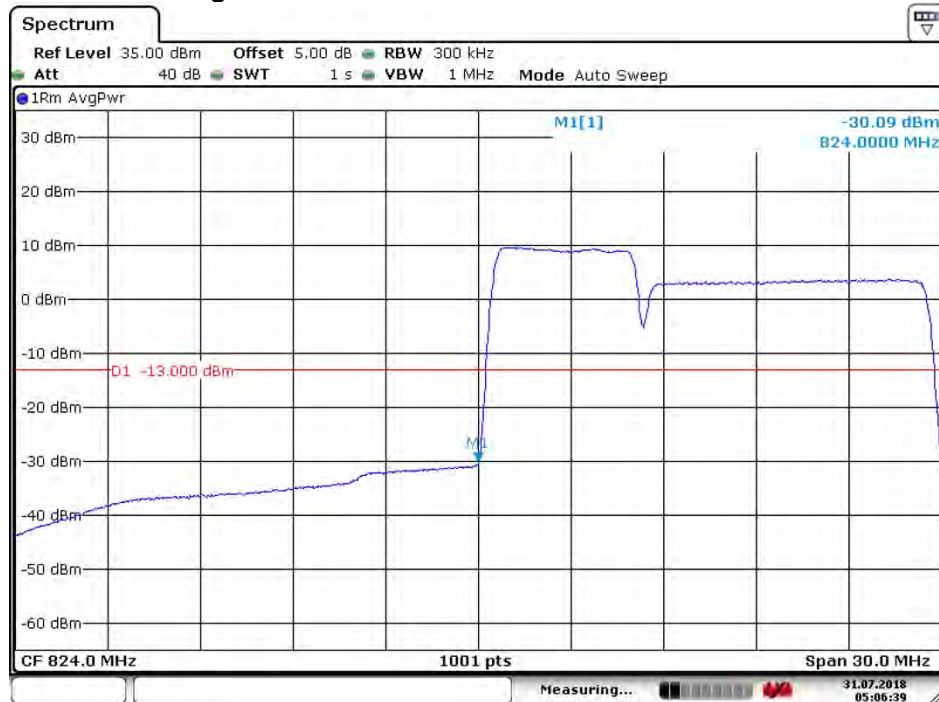
5.1.1.1.1.2 RB Configuration =8RB#0-0RB#0



Date: 31.JUL.2018 05:09:58



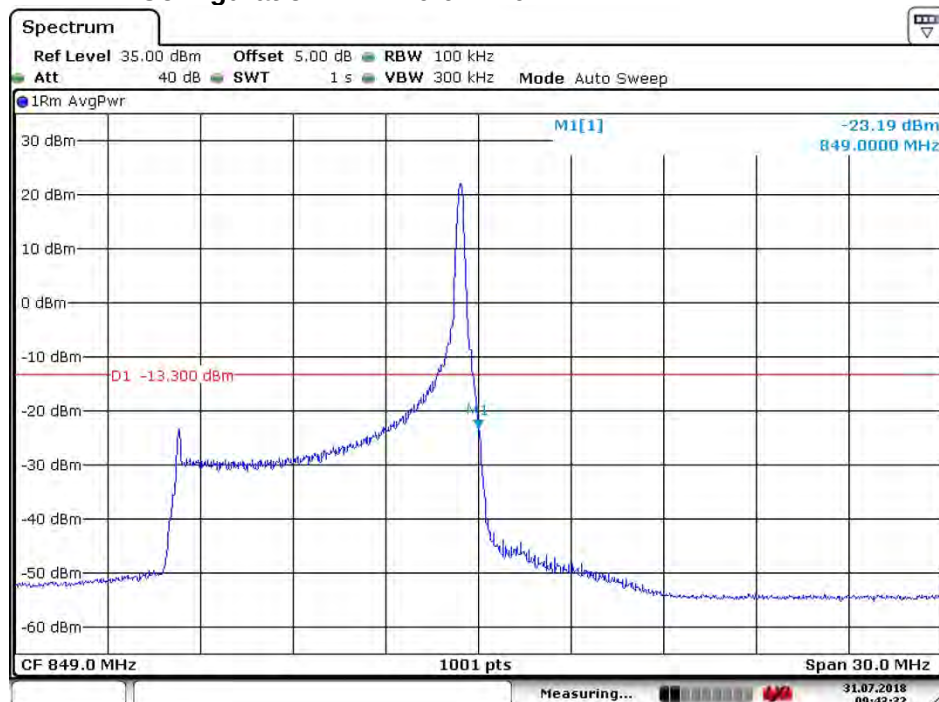
5.1.1.1.1.3 RB Configuration =25RB#0-50RB#0



Date: 31.JUL.2018 05:06:39

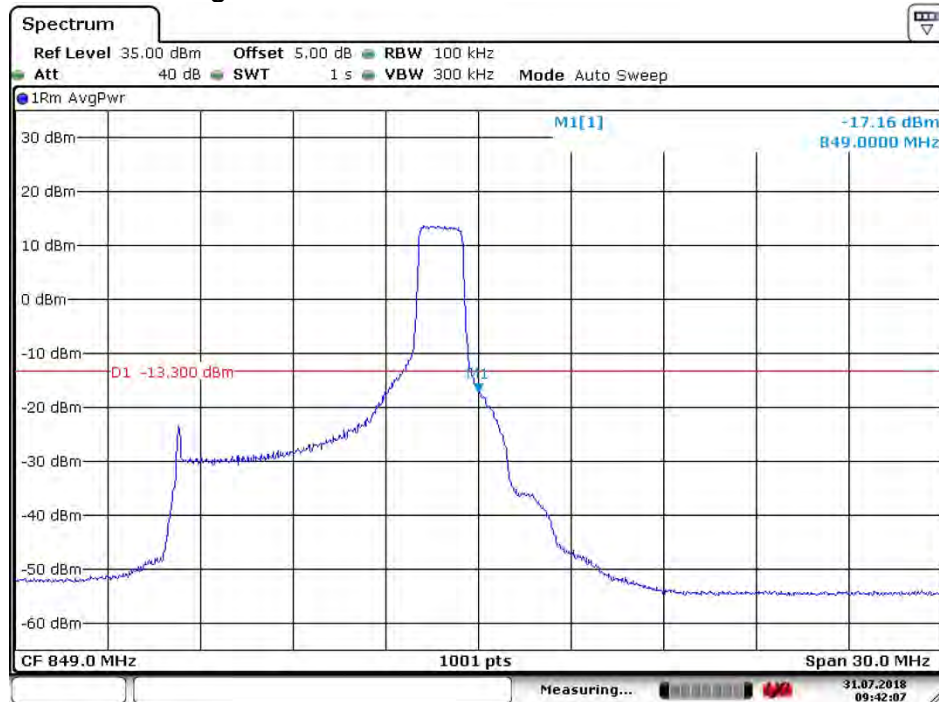
5.1.1.1.2 Test Channel = 20528-20600

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



Date: 31.JUL.2018 09:43:32

5.1.1.1.2.2 RB Configuration =8RB#17-0RB#0



Date: 31.JUL.2018 09:42:08

5.1.1.1.2.3 RB Configuration =25RB#0-50RB#0

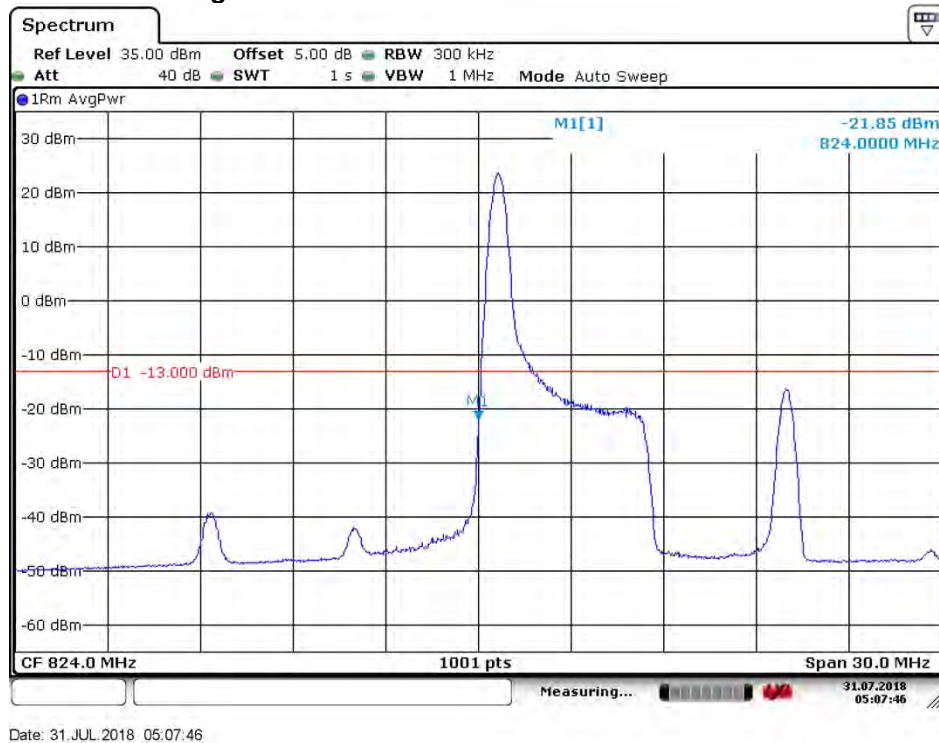


Date: 31.JUL.2018 09:40:35

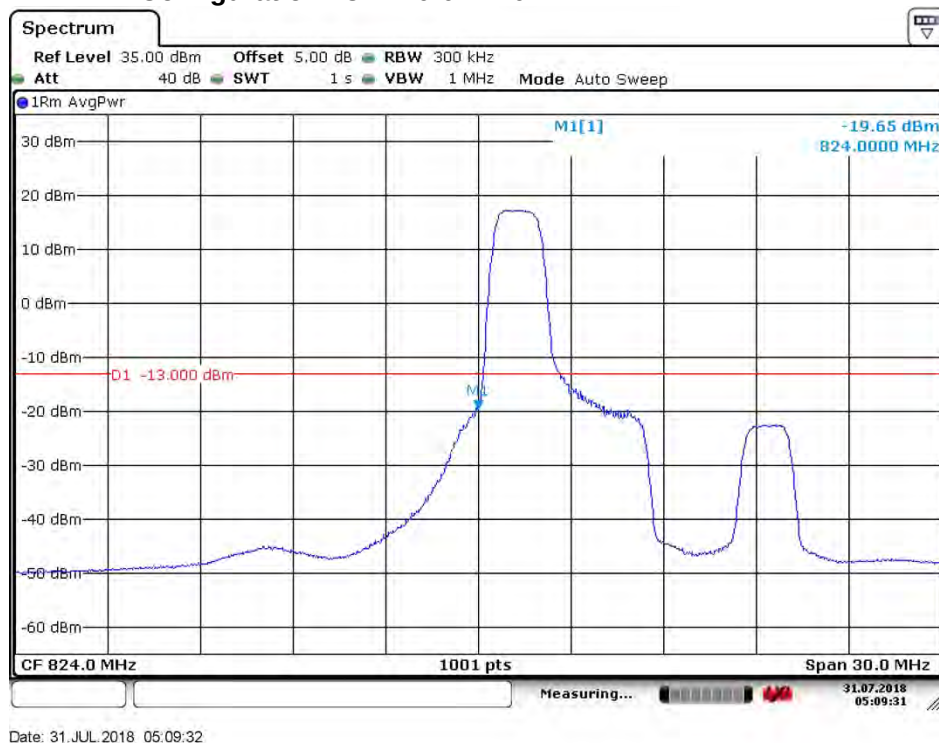
5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Channel = 20428-20500

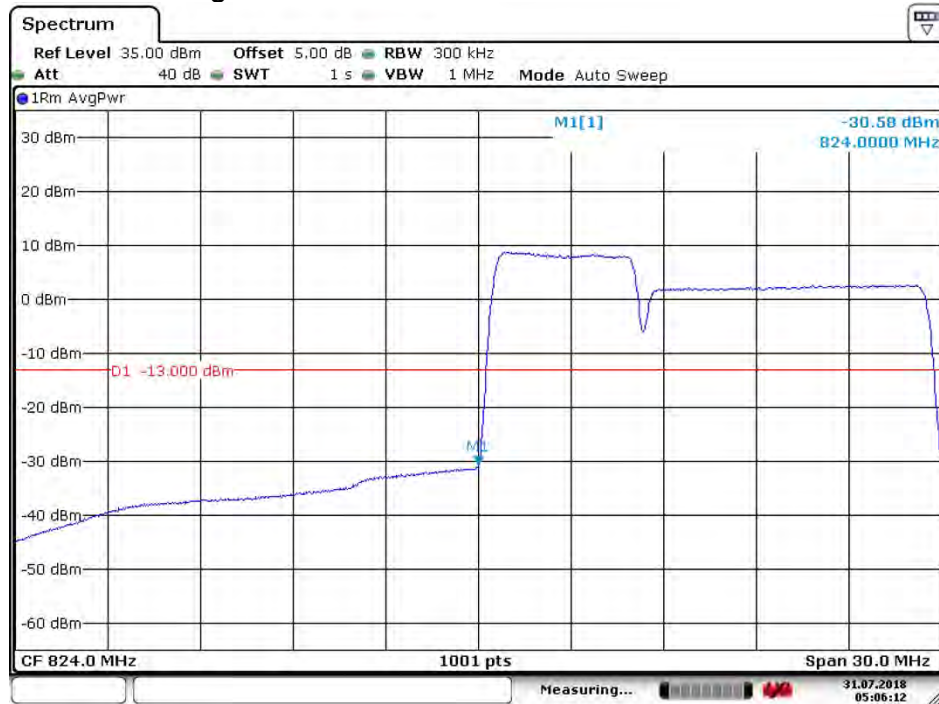
5.1.1.2.1.1 RB Configuration =1RB#0-0RB#0



5.1.1.2.1.2 RB Configuration =8RB#0-0RB#0



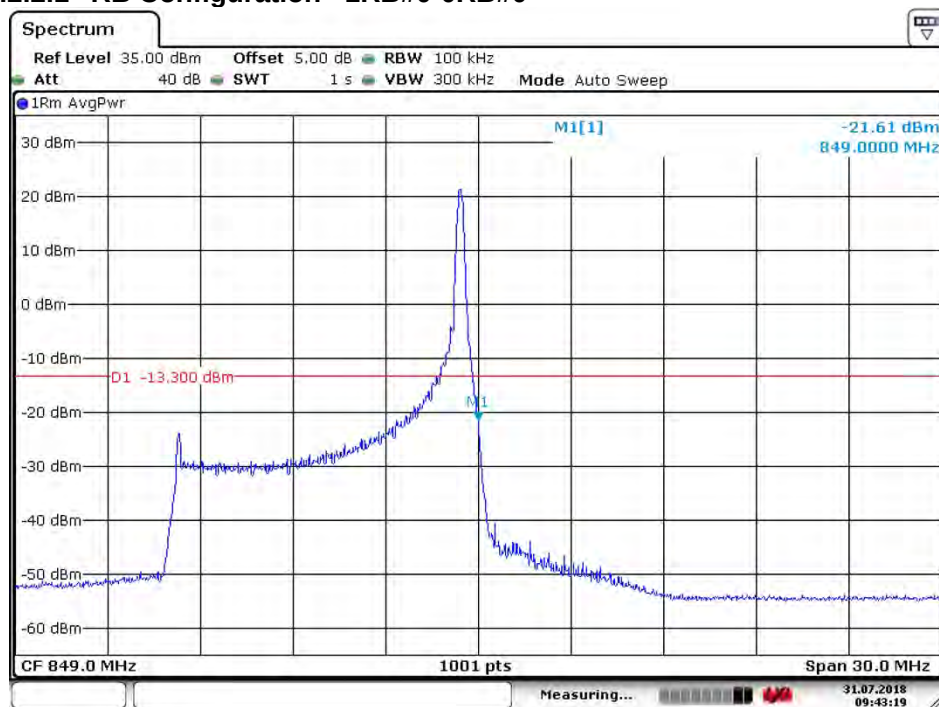
5.1.1.2.1.3 RB Configuration =25RB#0-50RB#0



Date: 31.JUL.2018 05:06:13

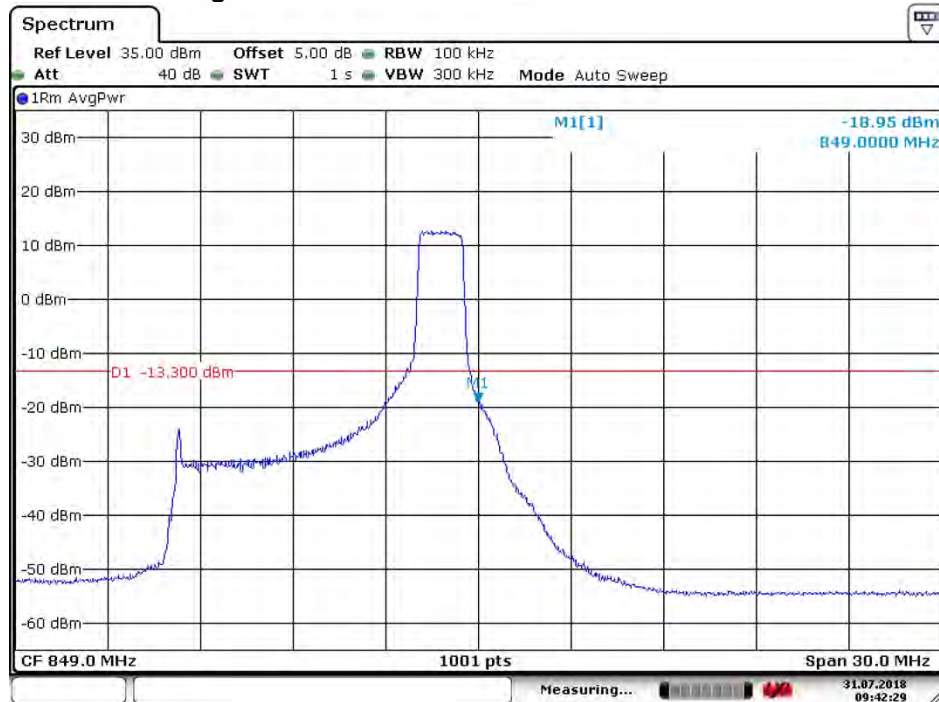
5.1.1.2.2 Test Channel = 20528-20600

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



Date: 31.JUL.2018 09:43:19

5.1.1.2.2.2 RB Configuration =8RB#17-0RB#0



Date: 31.JUL.2018 09:42:29

5.1.1.2.2.3 RB Configuration =25RB#0-50RB#0



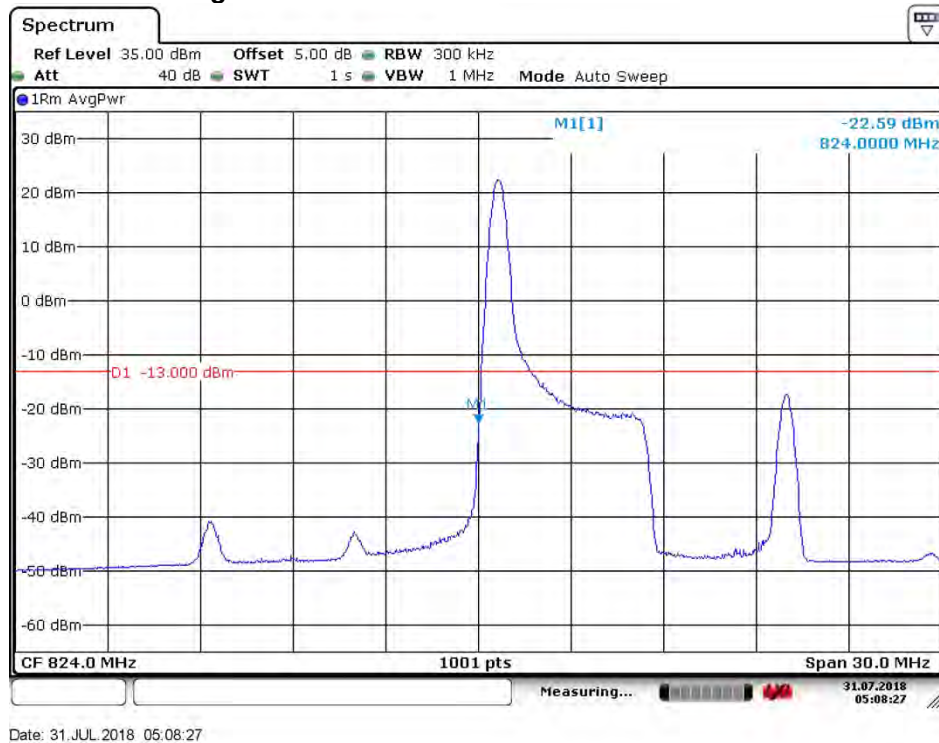
Date: 31.JUL.2018 09:40:49



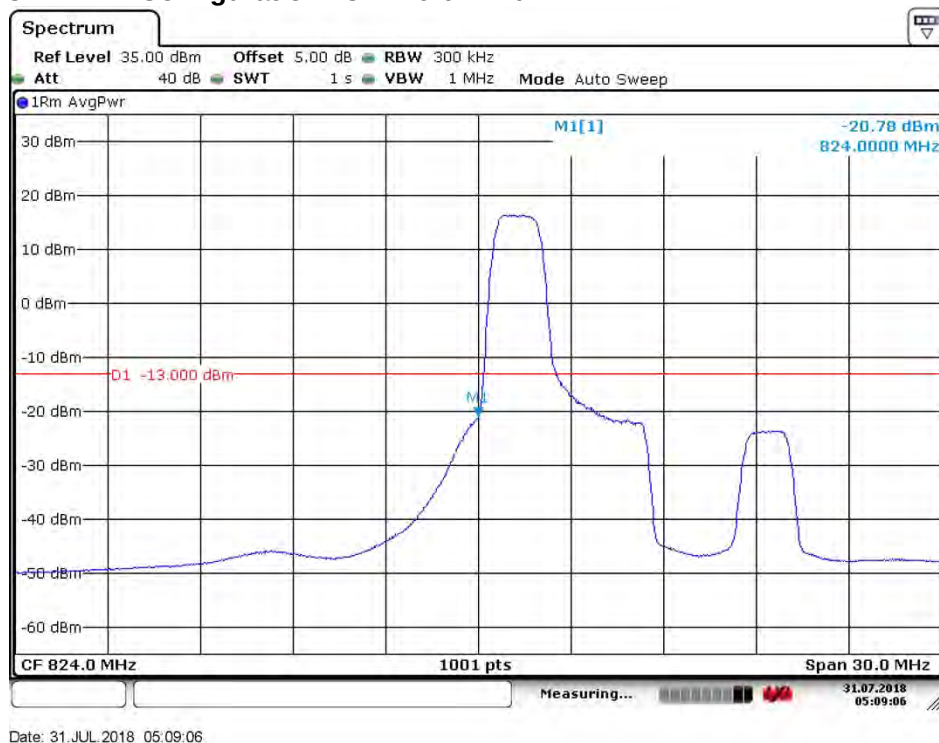
5.1.1.3 Test Mode = LTE/TM3

5.1.1.3.1 Test Channel = 20428-20500

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

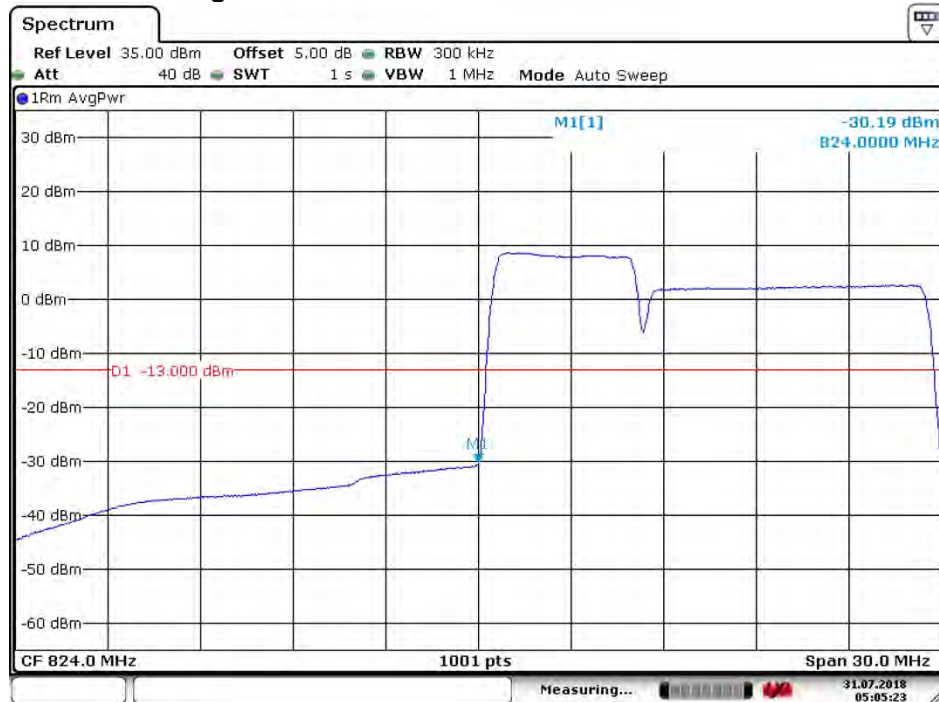


5.1.1.3.1.2 RB Configuration =8RB#0-0RB#0





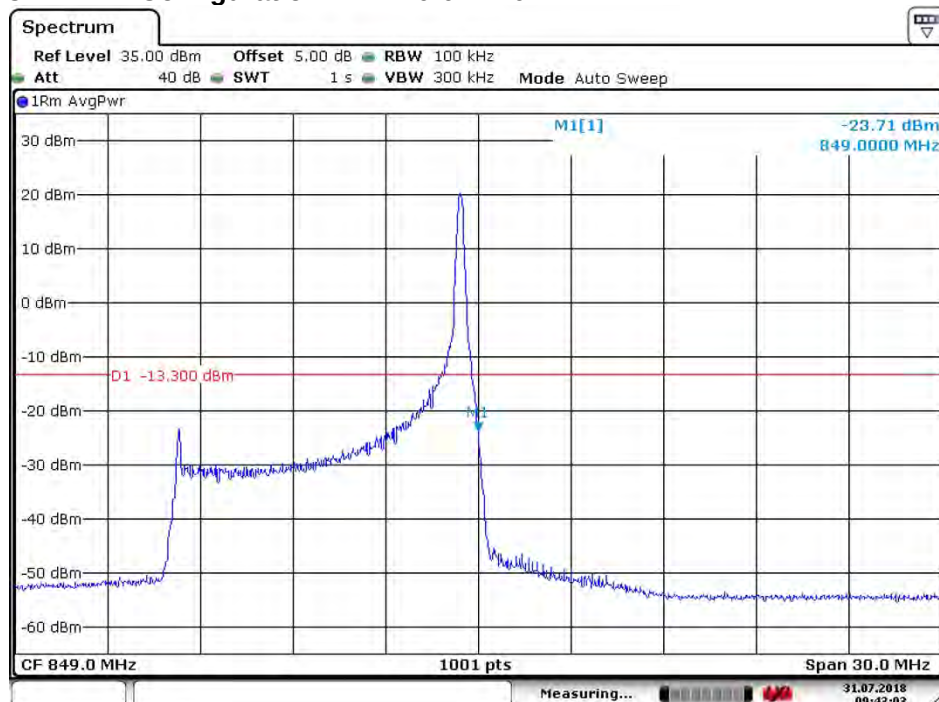
5.1.1.3.1.3 RB Configuration =25RB#0-50RB#0



Date: 31.JUL.2018 05:05:23

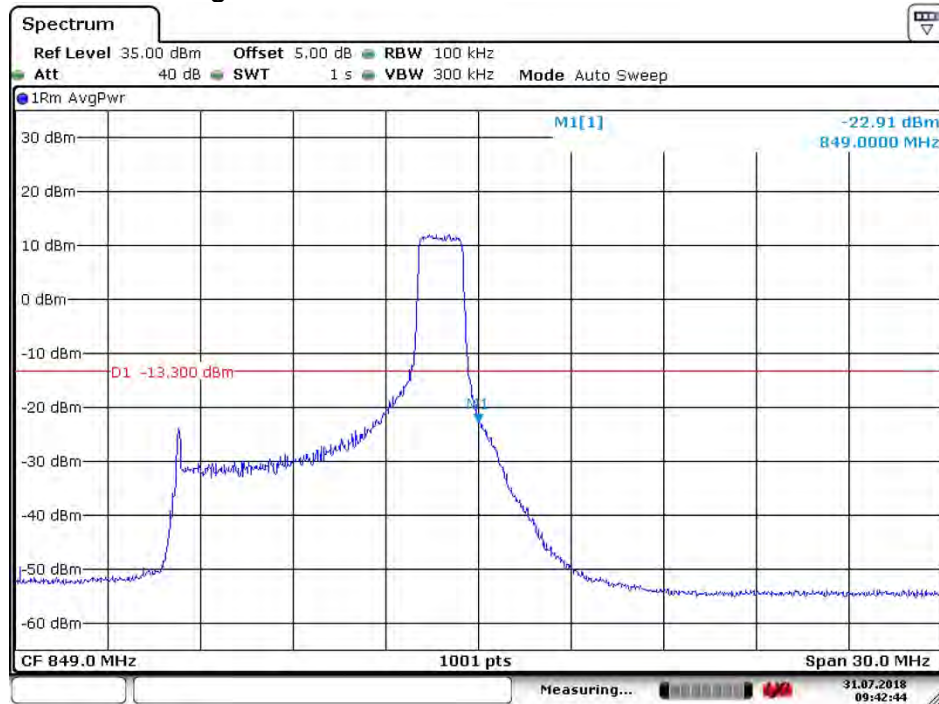
5.1.1.3.2 Test Channel = 20528-20600

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



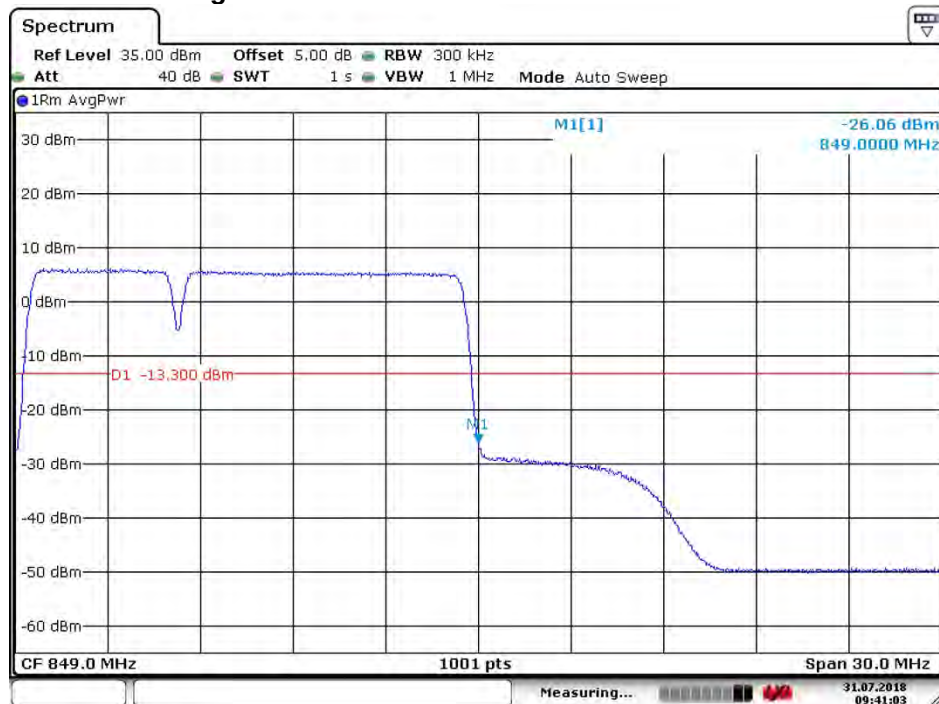
Date: 31.JUL.2018 09:43:03

5.1.1.3.2.2 RB Configuration =8RB#17-0RB#0



Date: 31.JUL.2018 09:42:45

5.1.1.3.2.3 RB Configuration =25RB#0-50RB#0



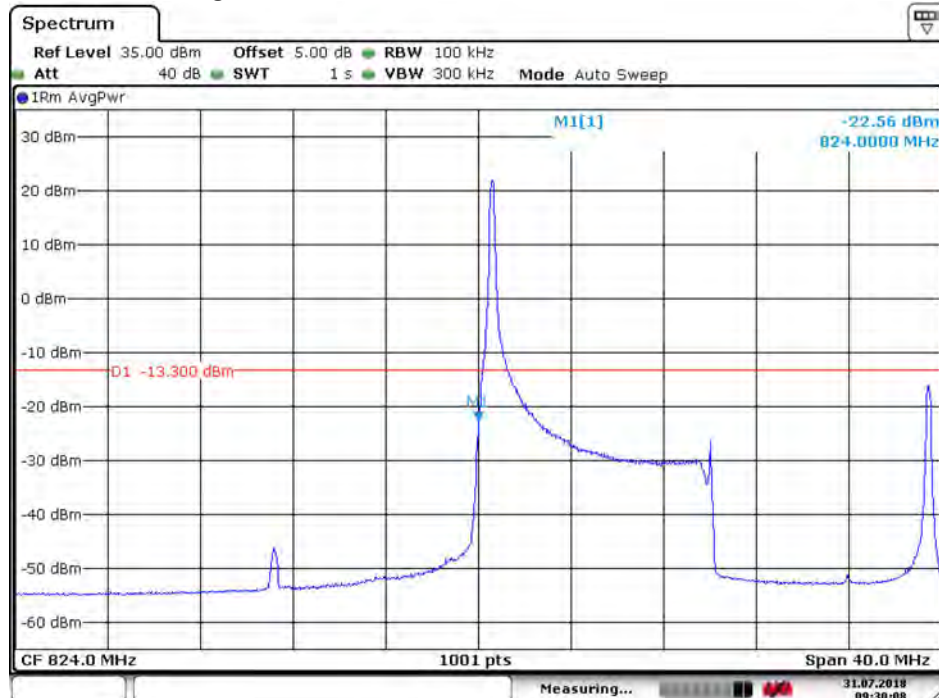
Date: 31.JUL.2018 09:41:03

5.1.2 Test Band = Bandwidth=50RB+50RB

5.1.2.1 Test Mode = LTE/TM1

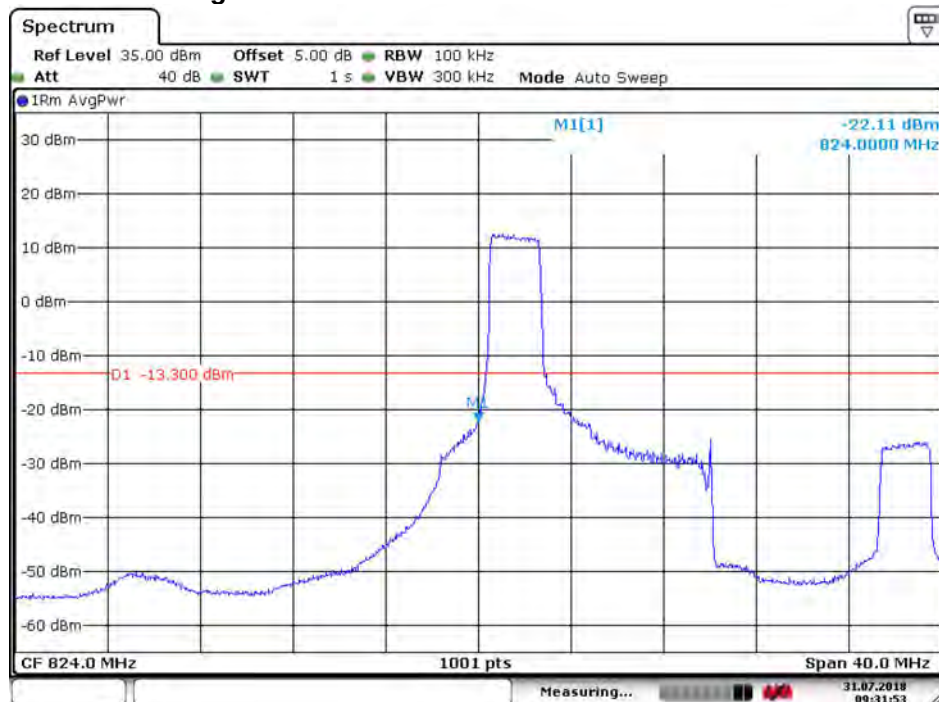
5.1.2.1.1 Test Channel = 20450-20549

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



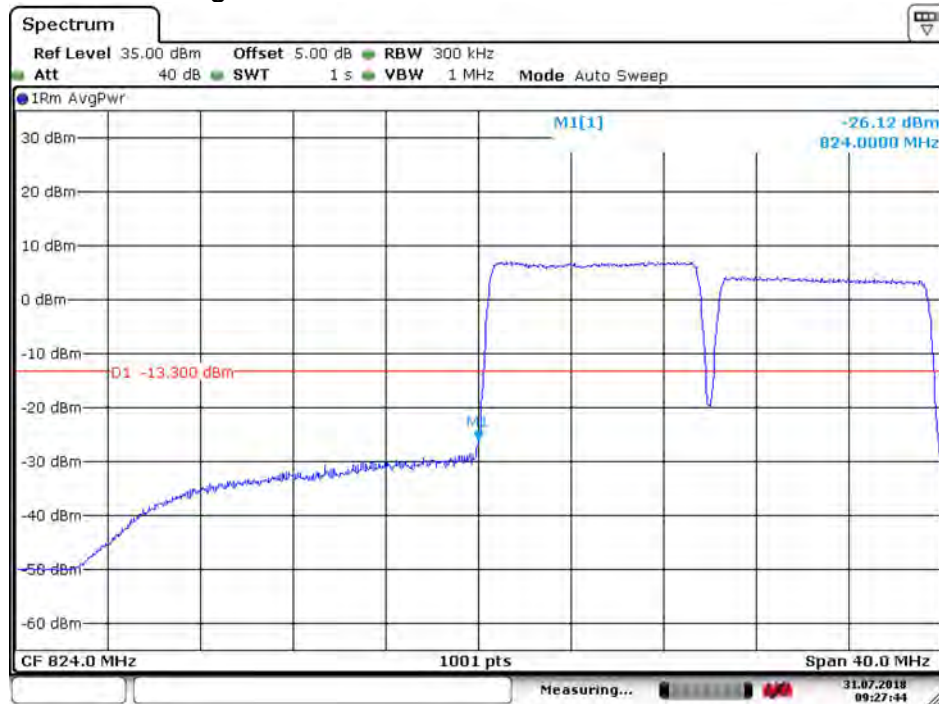
Date: 31.JUL.2018 09:30:09

5.1.2.1.1.2 RB Configuration =12RB#0-0RB#0



Date: 31.JUL.2018 09:31:54

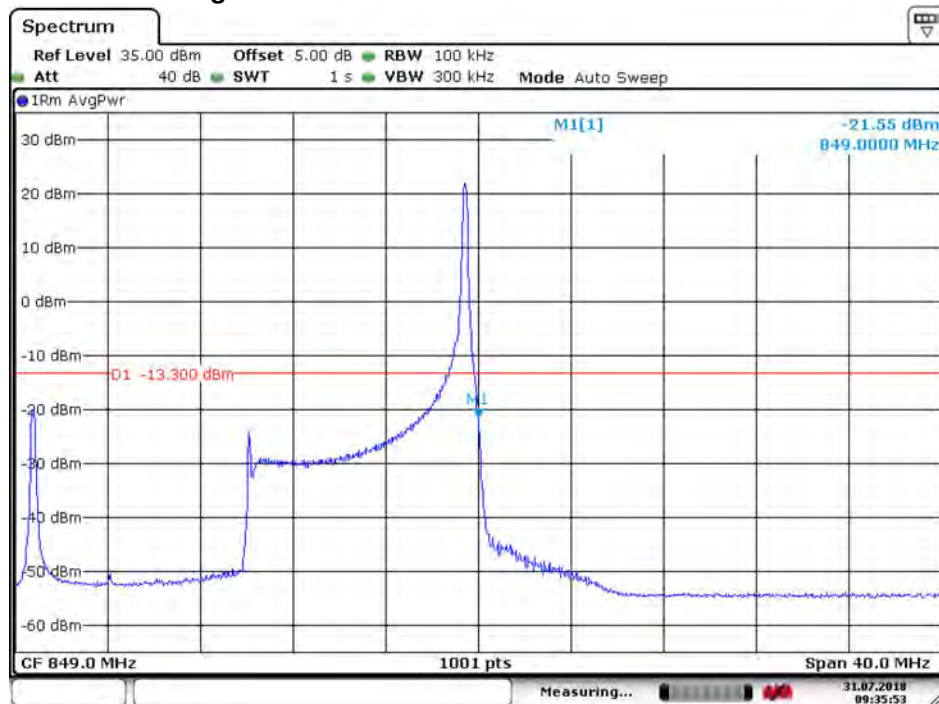
5.1.2.1.1.3 RB Configuration =50RB#0-50RB#0



Date: 31.JUL.2018 09:27:45

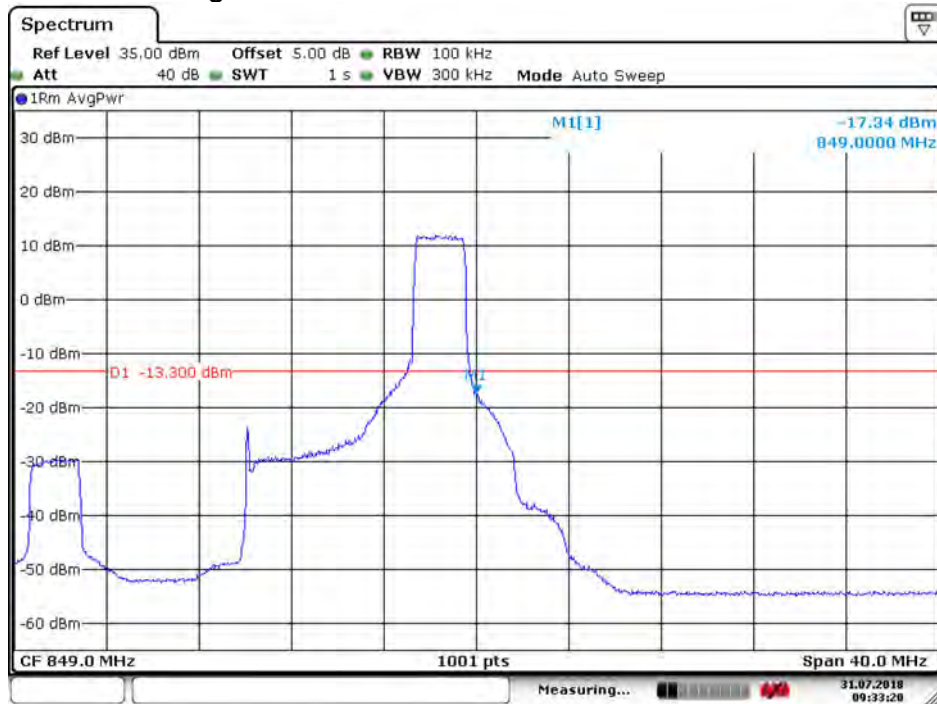
5.1.2.1.2 Test Channel = 20501-20600

5.1.2.1.2.1 RB Configuration =1RB#49-0RB#0



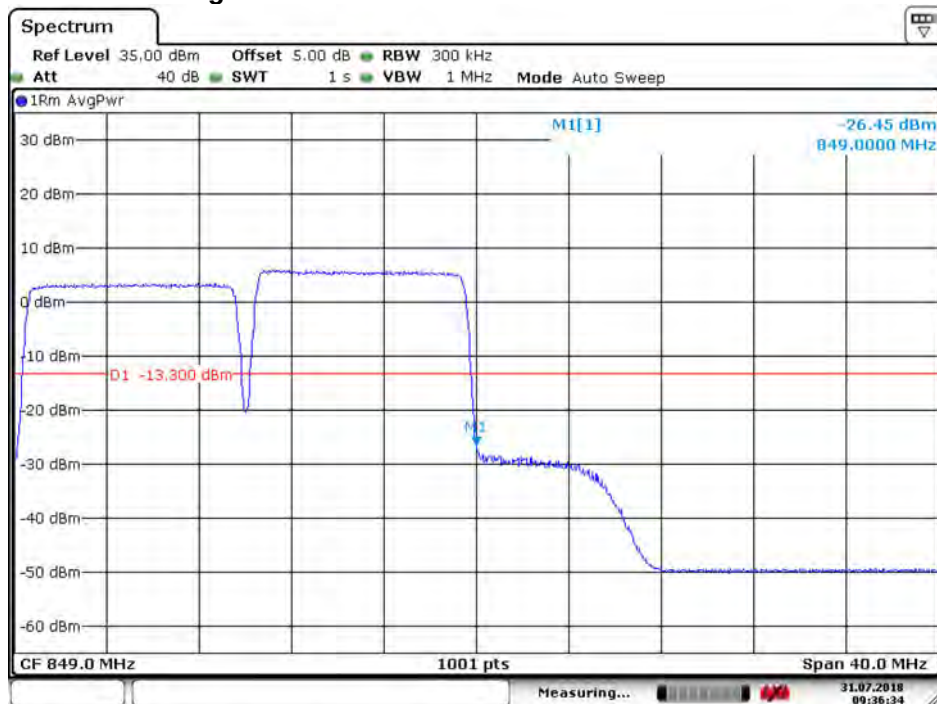
Date: 31.JUL.2018 09:35:54

5.1.2.1.2.2 RB Configuration =12RB#0-0RB#0



Date: 31.JUL 2018 09:33:21

5.1.2.1.2.3 RB Configuration =50RB#0-50RB#0

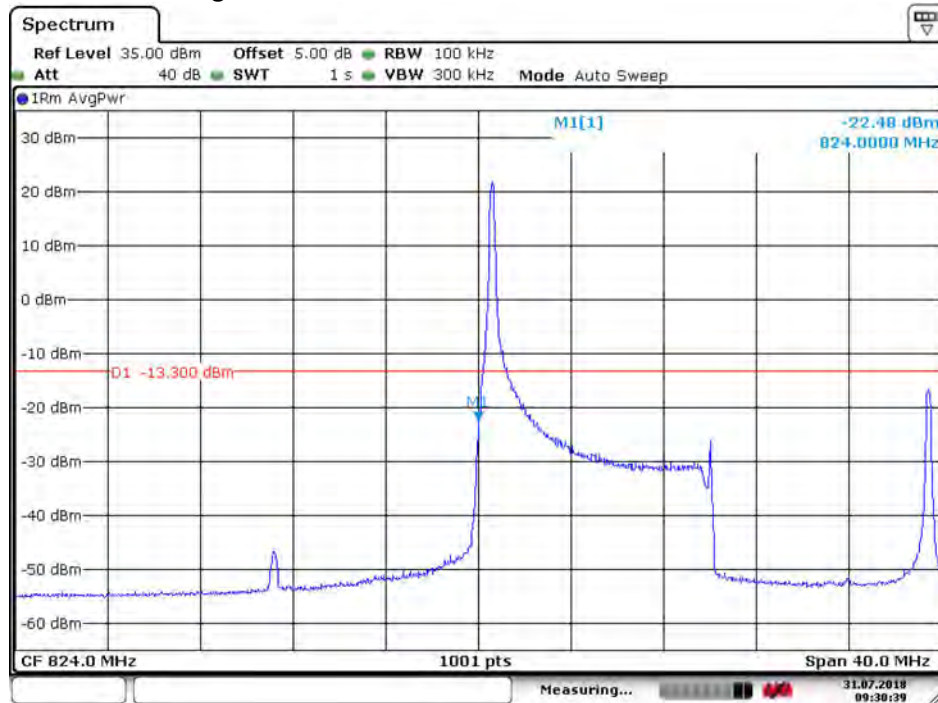


Date: 31.JUL 2018 09:36:34

5.1.2.2 Test Mode = LTE/TM2

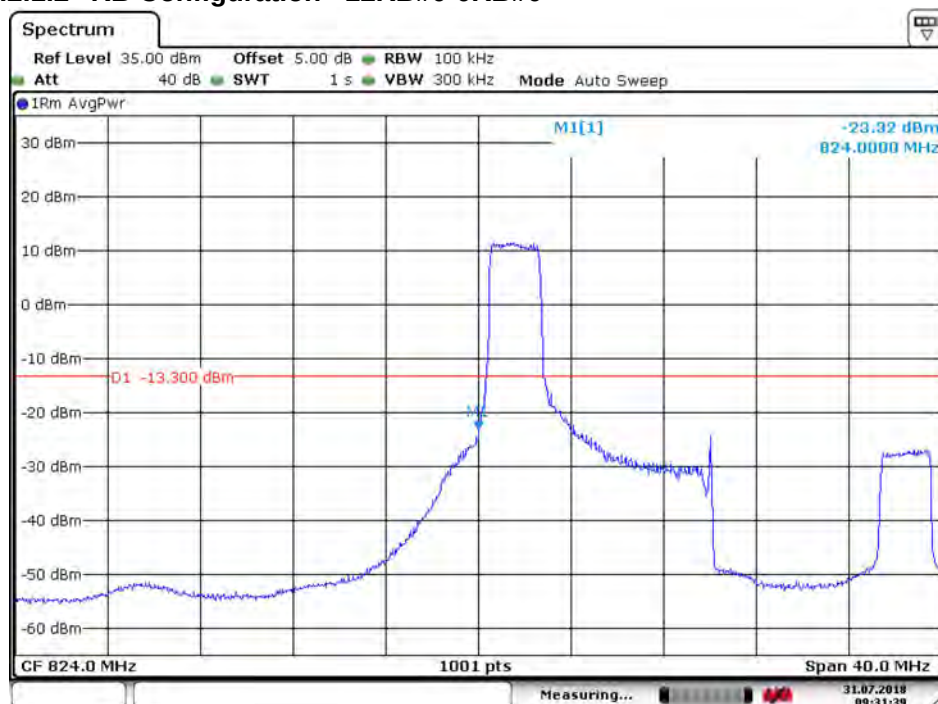
5.1.2.2.1 Test Channel = 20450-20549

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



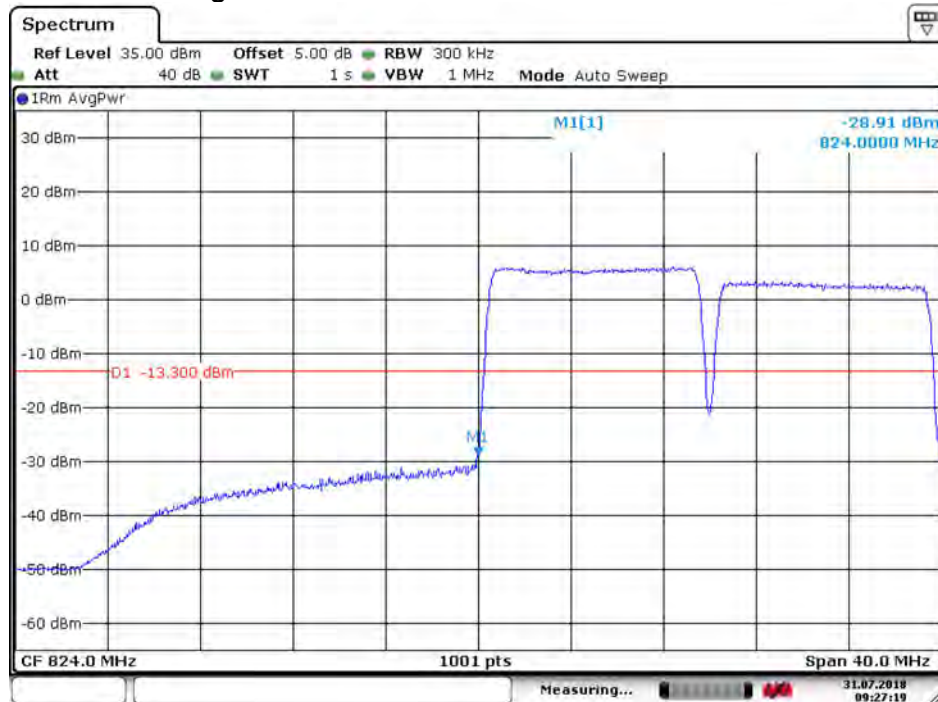
Date: 31.JUL.2018 09:30:39

5.1.2.2.1.2 RB Configuration = 12RB#0-0RB#0



Date: 31.JUL.2018 09:31:39

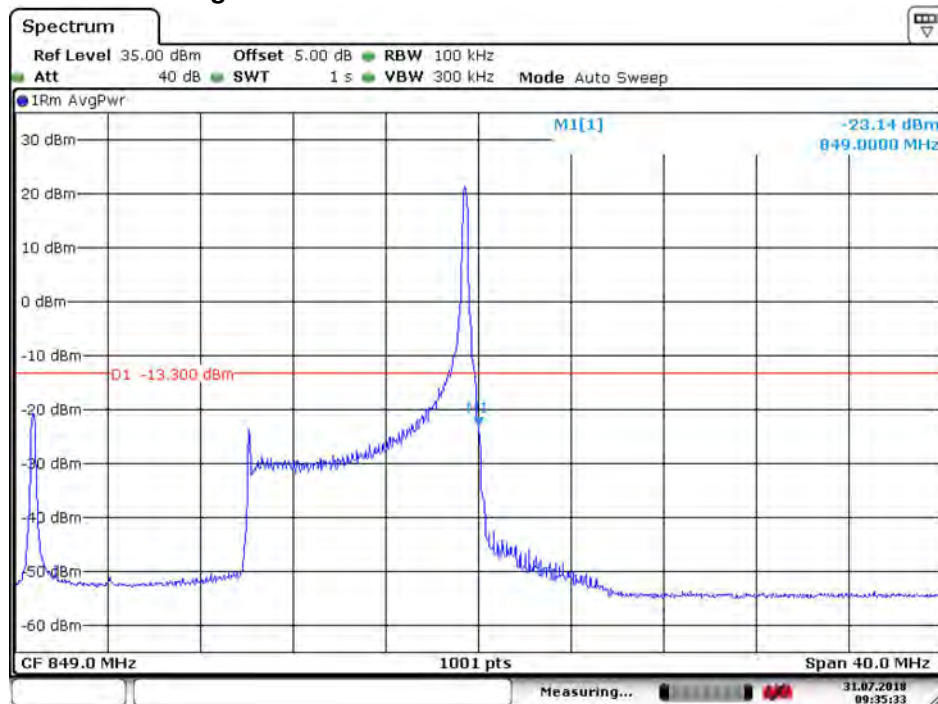
5.1.2.2.1.3 RB Configuration =50RB#0-50RB#0



Date: 31.JUL.2018 09:27:19

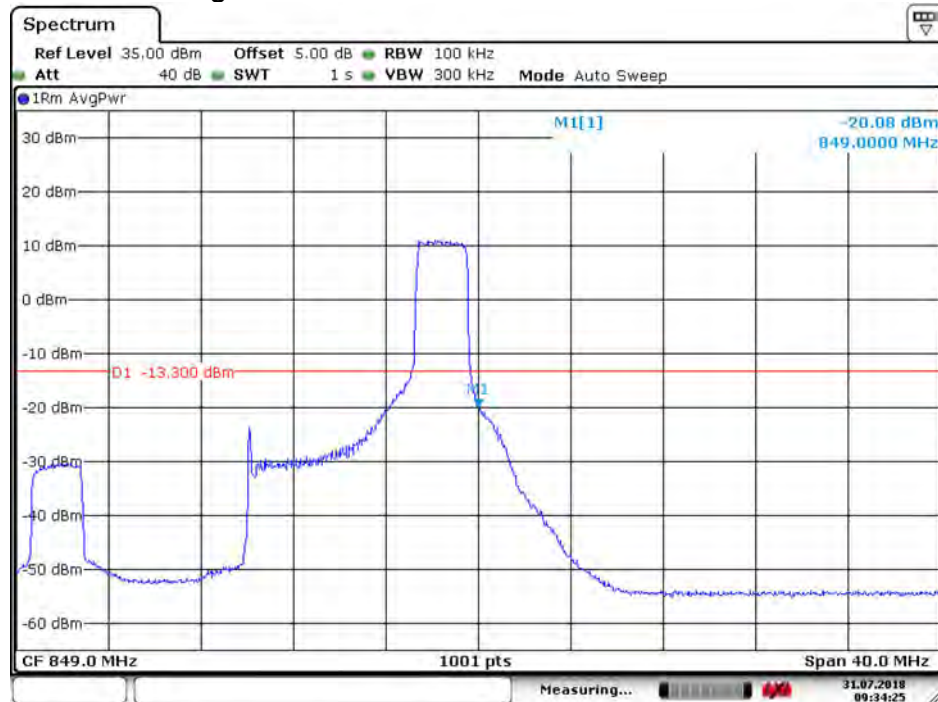
5.1.2.2.2 Test Channel = 20501-20600

5.1.2.2.2.1 RB Configuration =1RB#49-0RB#0



Date: 31.JUL.2018 09:35:34

5.1.2.2.2 RB Configuration =12RB#0-0RB#0



Date: 31.JUL 2018 09:34:26

5.1.2.2.3 RB Configuration =50RB#0-50RB#0

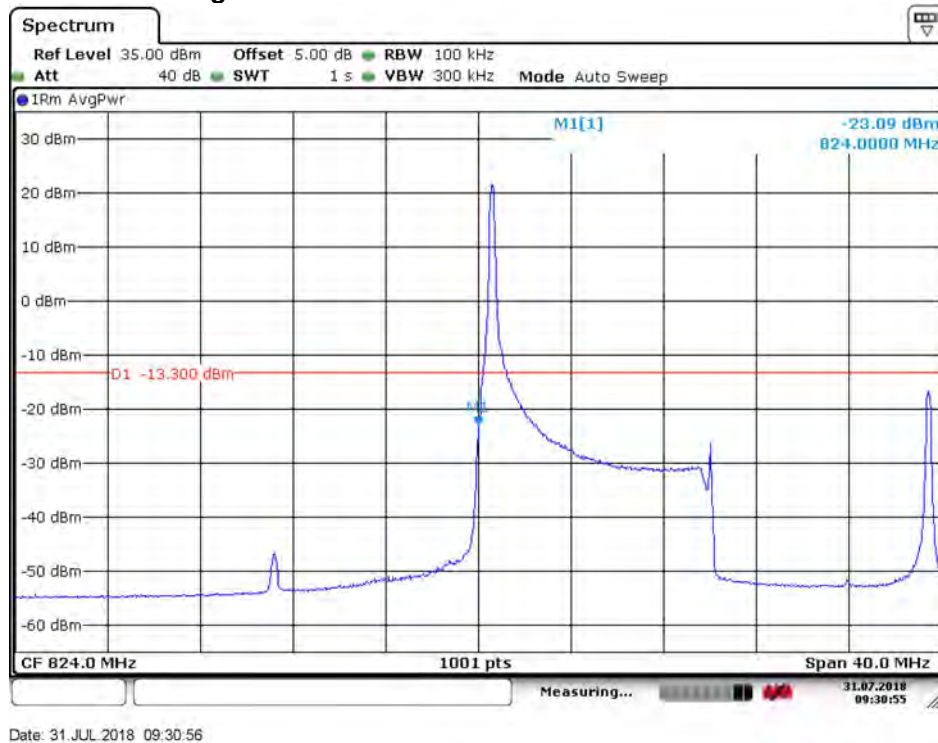


Date: 31.JUL 2018 09:37:04

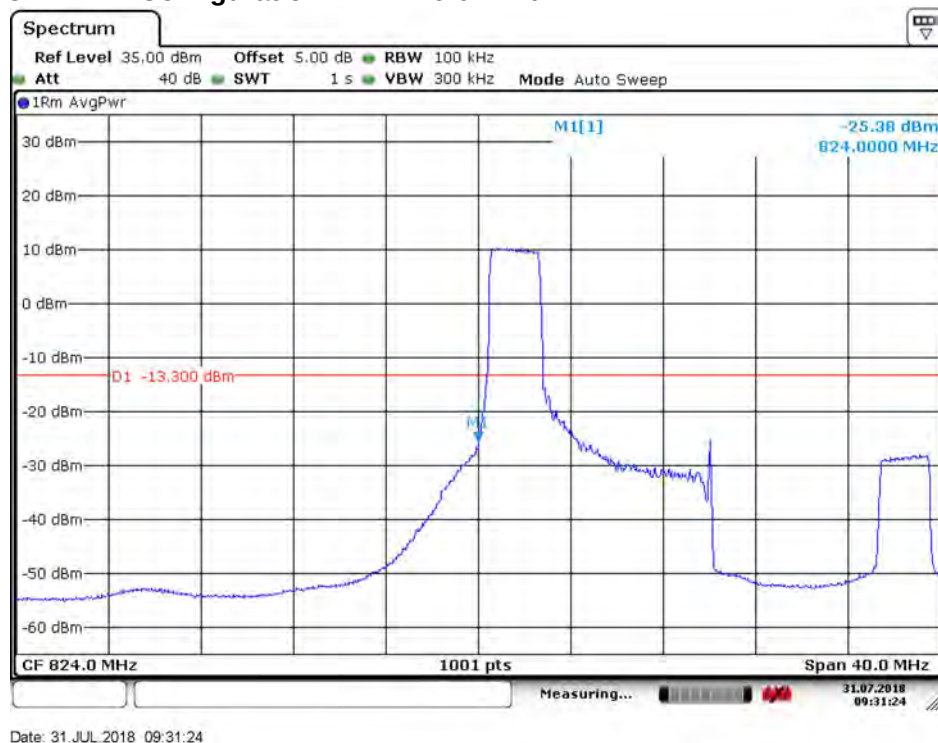
5.1.2.3 Test Mode = LTE/TM3

5.1.2.3.1 Test Channel = 20450-20549

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



5.1.2.3.1.2 RB Configuration =12RB#0-0RB#0



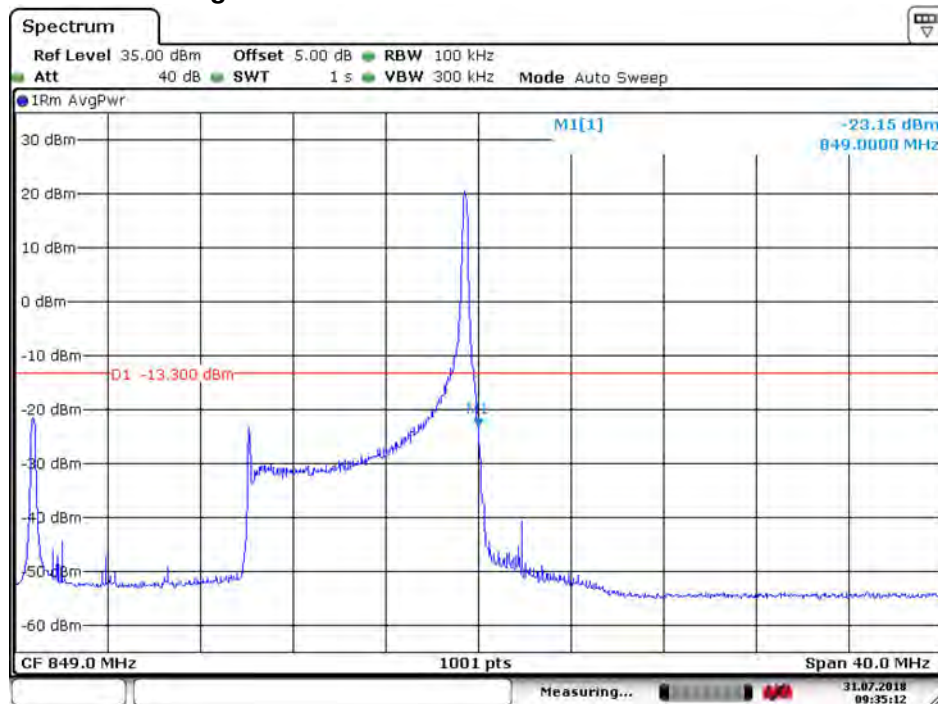
5.1.2.3.1.3 RB Configuration =50RB#0-50RB#0



Date: 31.JUL.2018 09:27:32

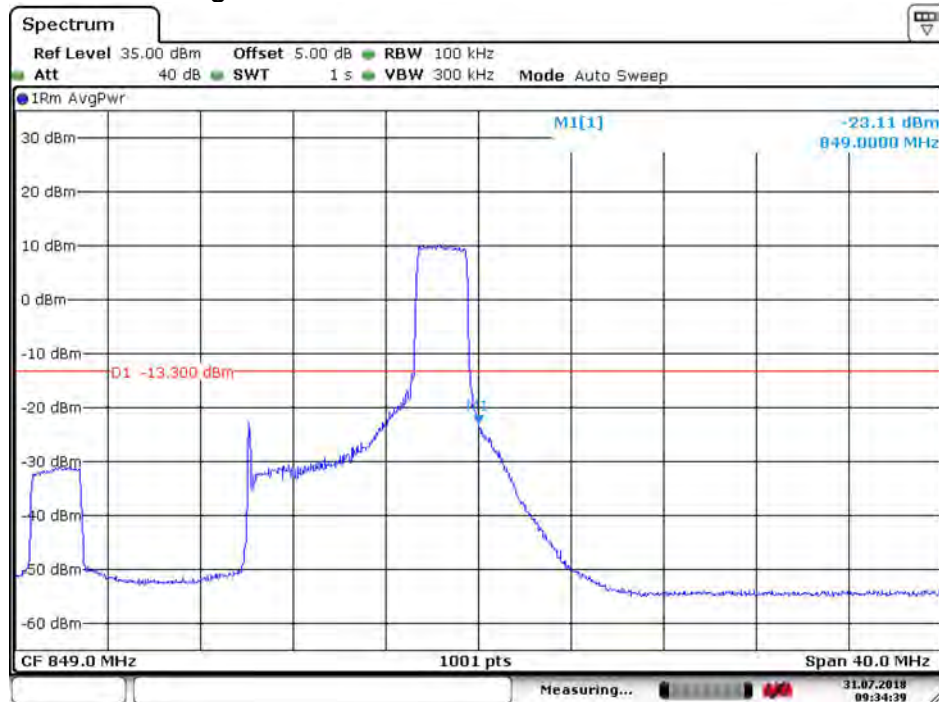
5.1.2.3.2 Test Channel = 20501-20600

5.1.2.3.2.1 RB Configuration =1RB#49-0RB#0



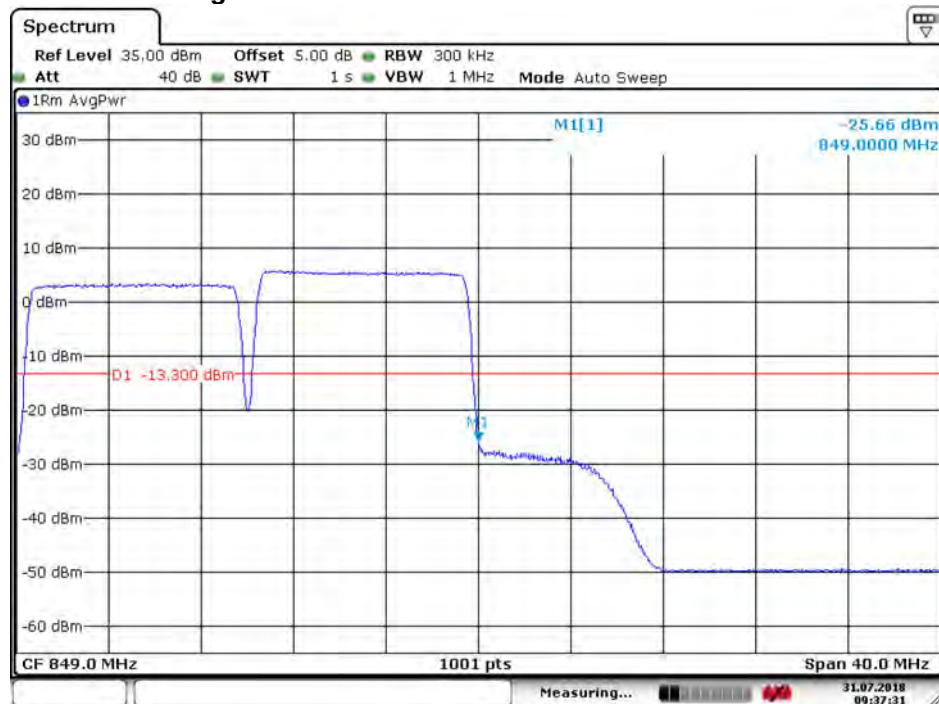
Date: 31.JUL.2018 09:35:12

5.1.2.3.2.2 RB Configuration =12RB#0-0RB#0



Date: 31.JUL 2018 09:34:39

5.1.2.3.2.3 RB Configuration =50RB#0-50RB#0



Date: 31.JUL 2018 09:37:31



6 Spurious Emission at Antenna Terminal

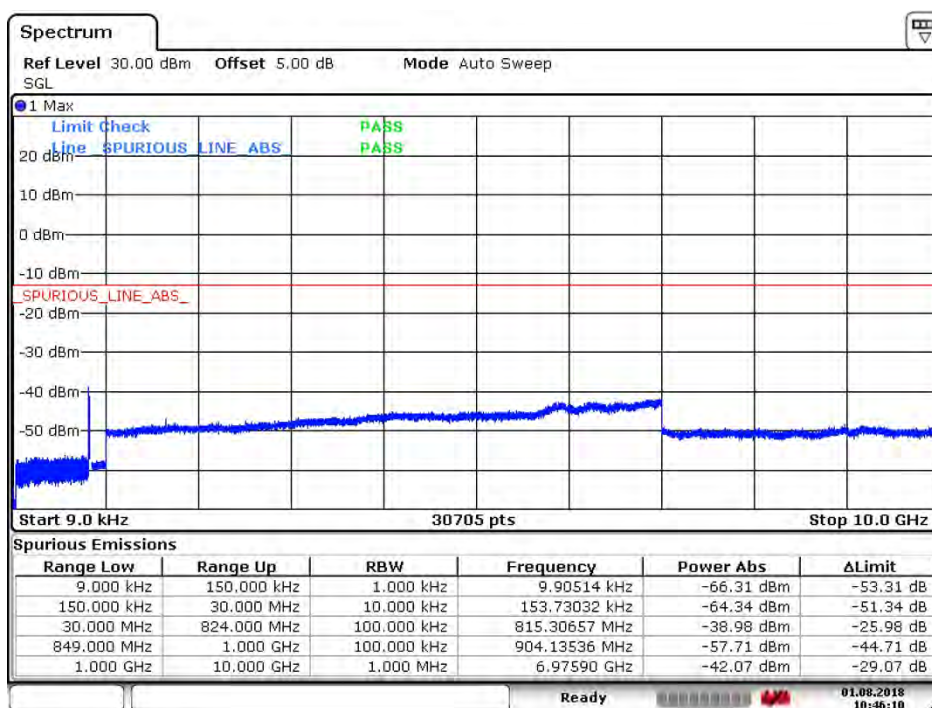
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k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

Part I - Test Plots

6.1 For LTE_CA_5B

6.1.1 Test Band = Bandwidth=25RB+50RB

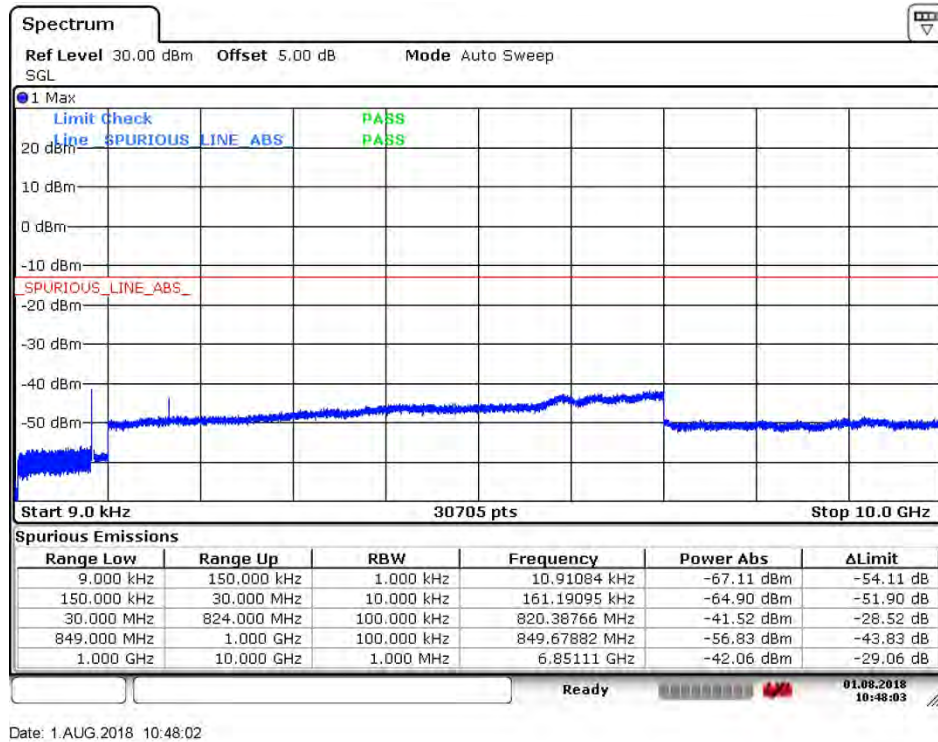
6.1.1.1.1 Test Channel = 20428-20500



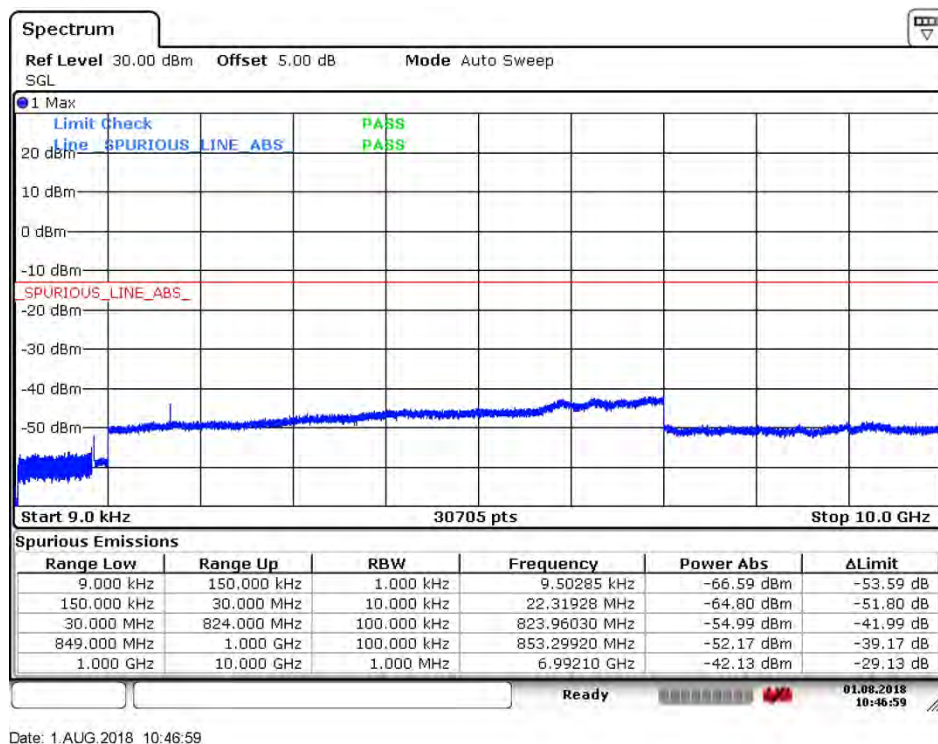
Date: 1.AUG.2018 10:46:10



6.1.1.1.2 Test Channel = 20478-20550



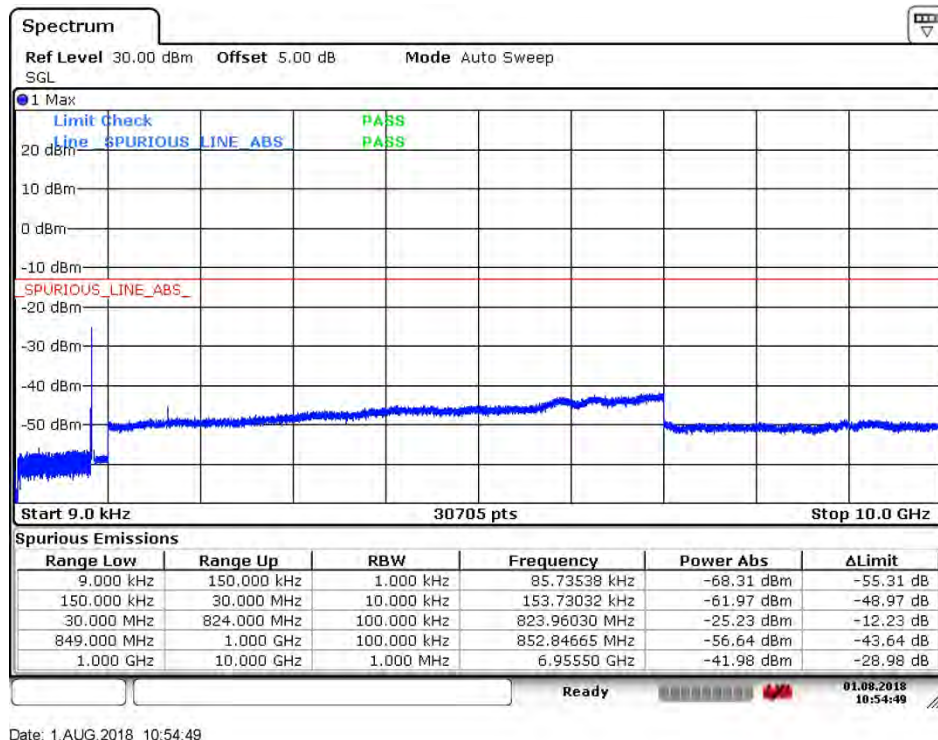
6.1.1.1.3 Test Channel = 20528-20600



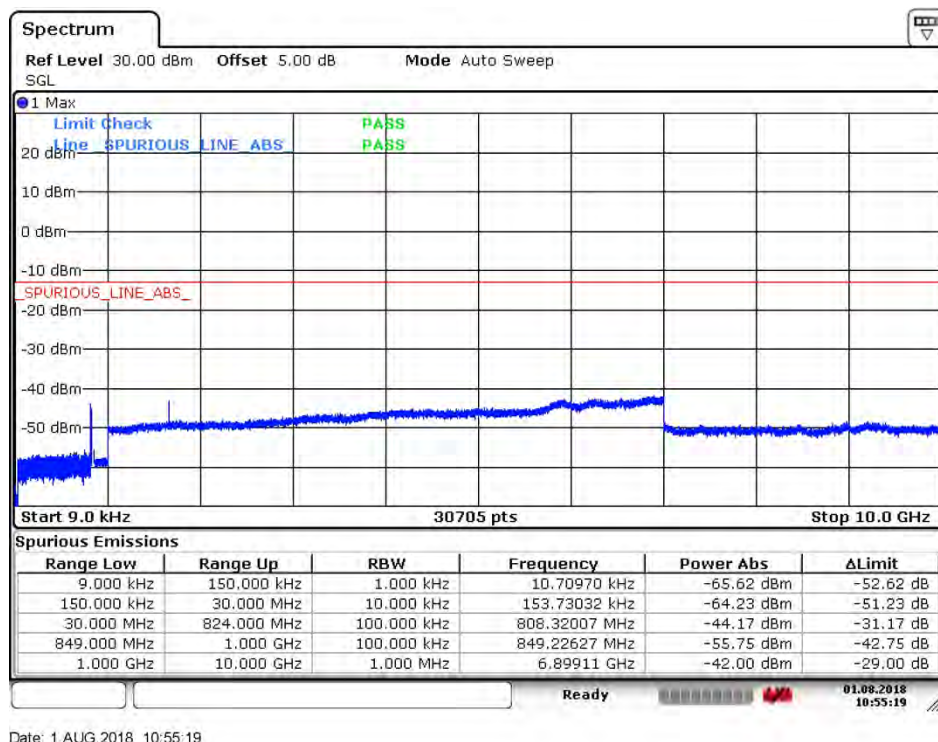


6.1.2 Test Band = Bandwidth=50RB+50RB

6.1.2.1.1 Test Channel = 20450-20549

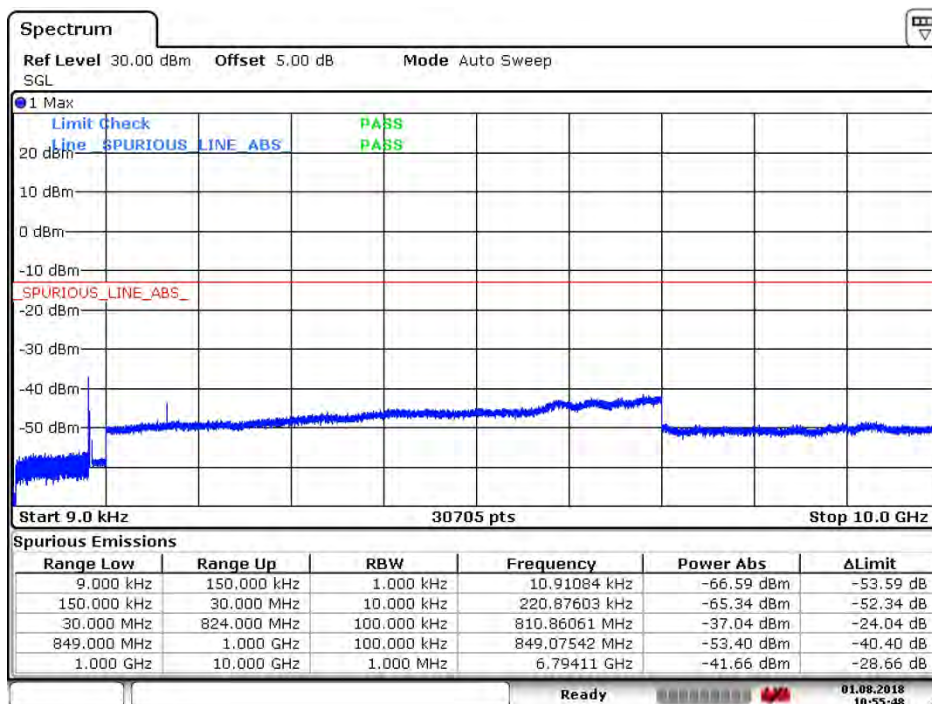


6.1.2.1.2 Test Channel = 20476-20575





6.1.2.1.3 Test Channel = 20501-20600



Date: 1.AUG.2018 10:55:48



7 Field Strength of Spurious Radiation

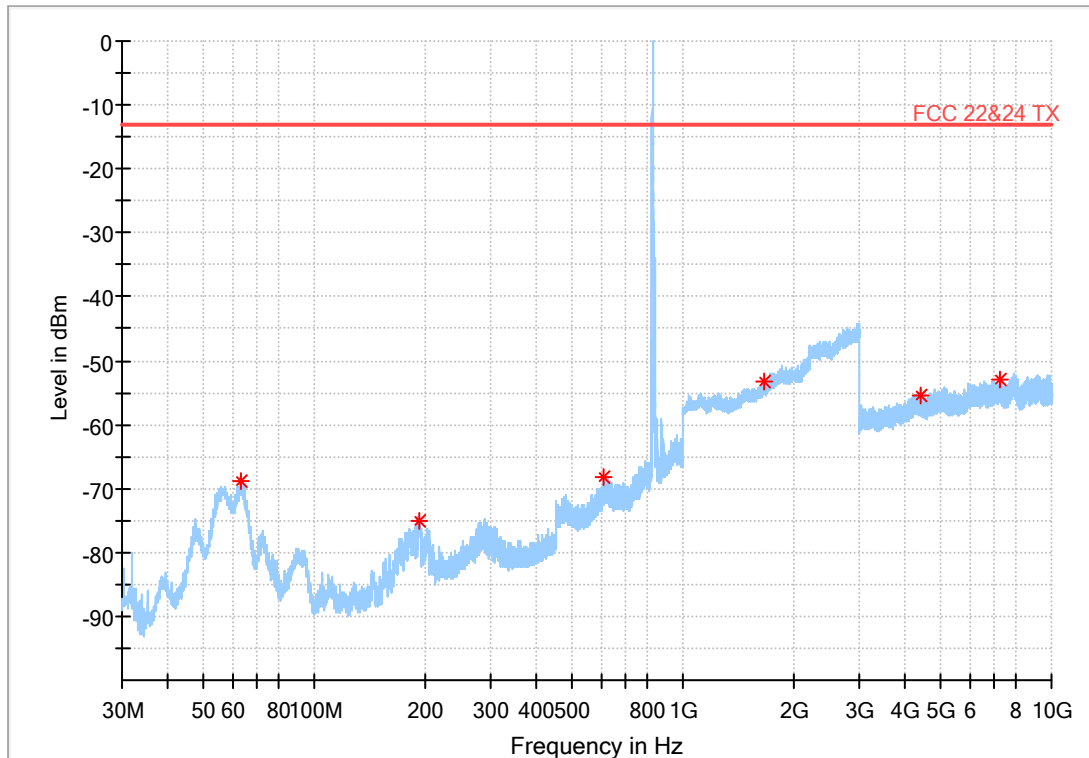
7.1 For LTE

7.1.1 Test Band = LTE Band CA_5B_Main Antenna

7.1.1.1 Test Mode =LTE/TM1 50RB+50RB

7.1.1.1.1 Test Channel = 20450-20549_H

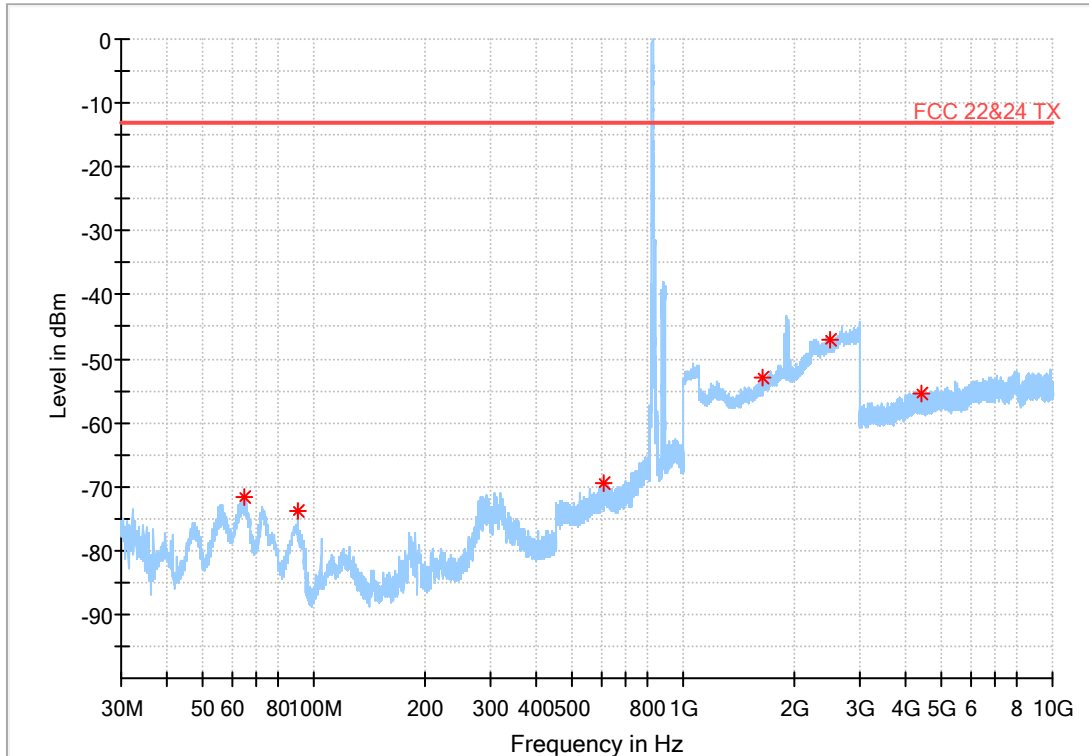
Full Spectrum





7.1.1.1.2 Test Channel = 20450-20549_V

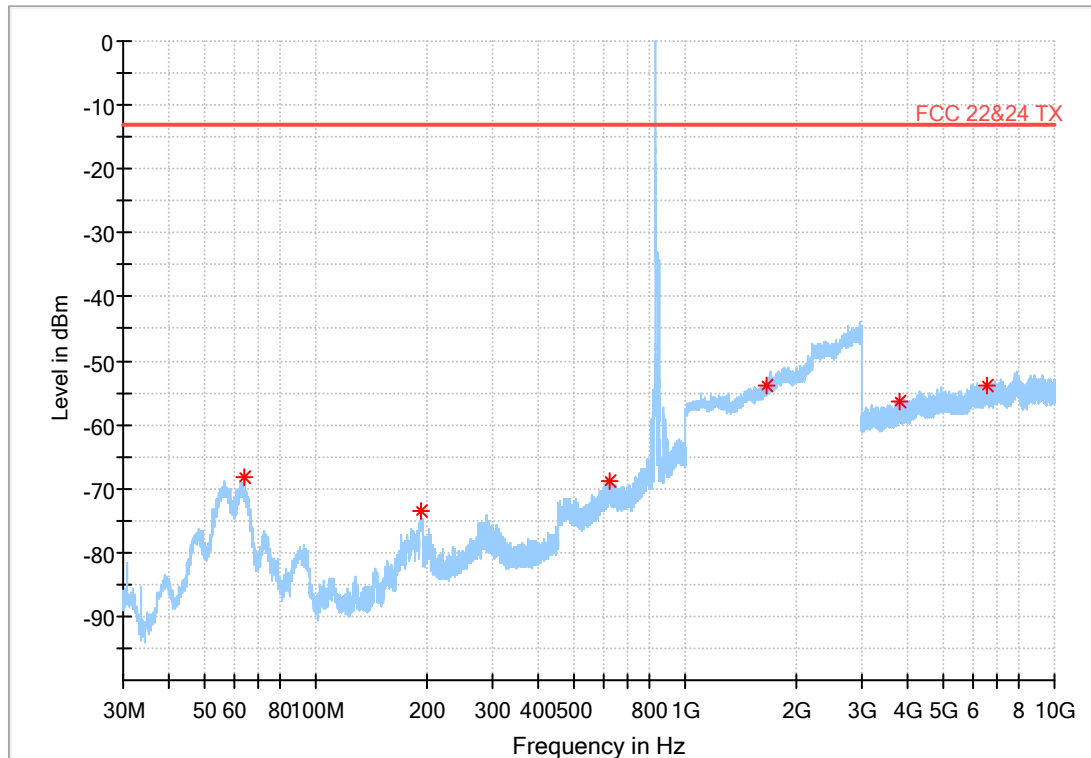
Full Spectrum





7.1.1.1.3 Test Channel = 20476-20575_H

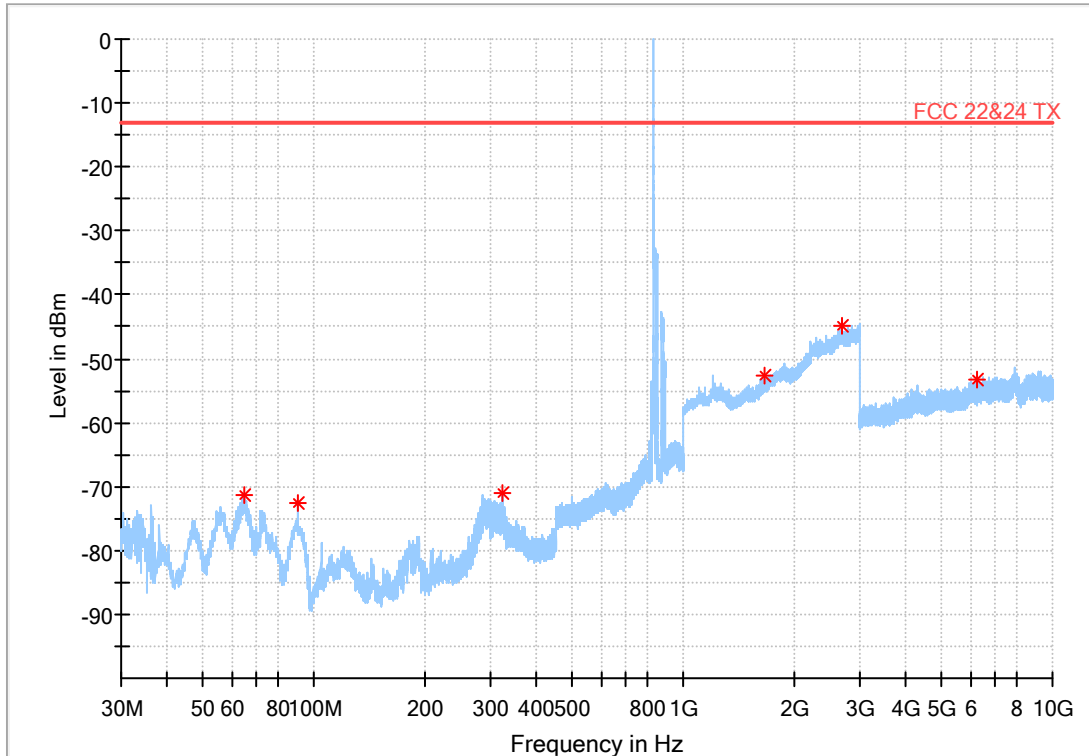
Full Spectrum





7.1.1.1.4 Test Channel = 20476-20575_V

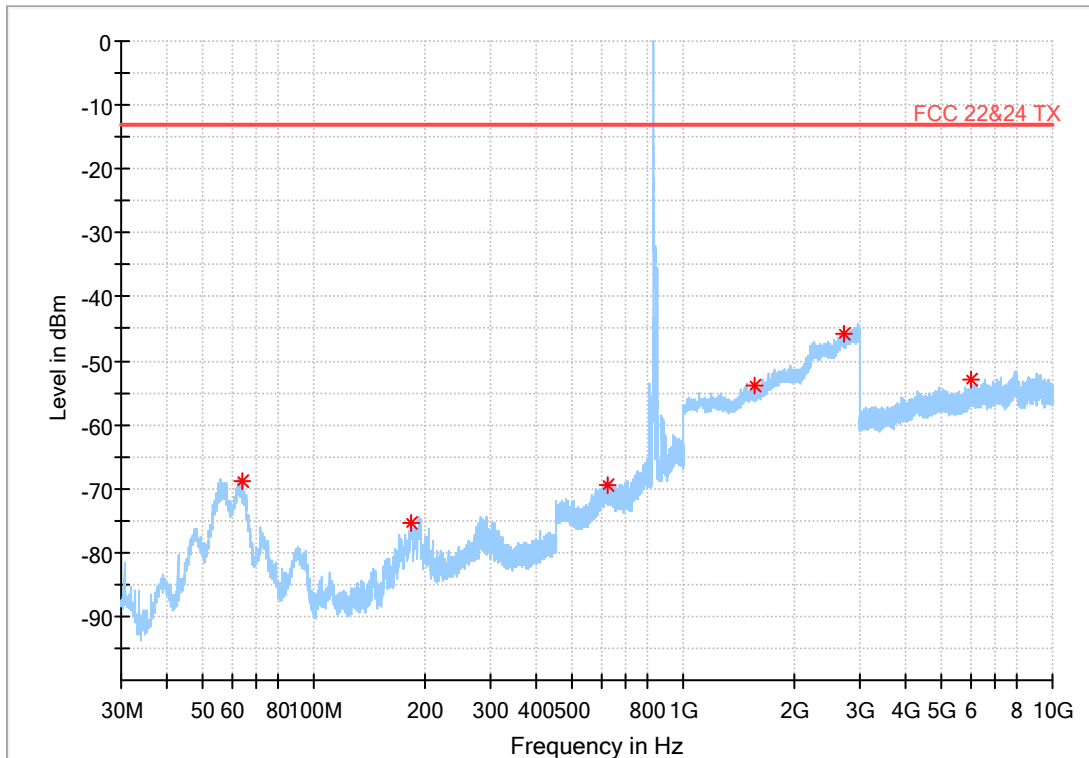
Full Spectrum





7.1.1.1.5 Test Channel = 20501-20600_H

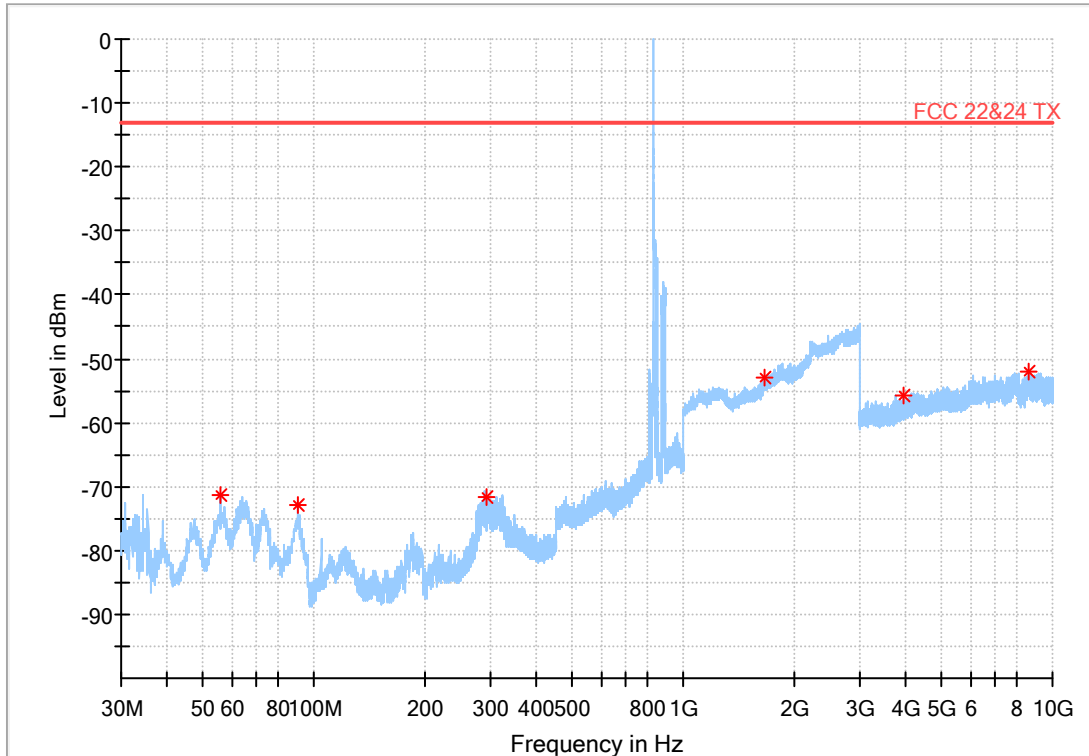
Full Spectrum





7.1.1.1.6 Test Channel = 20501-20600_V

Full Spectrum



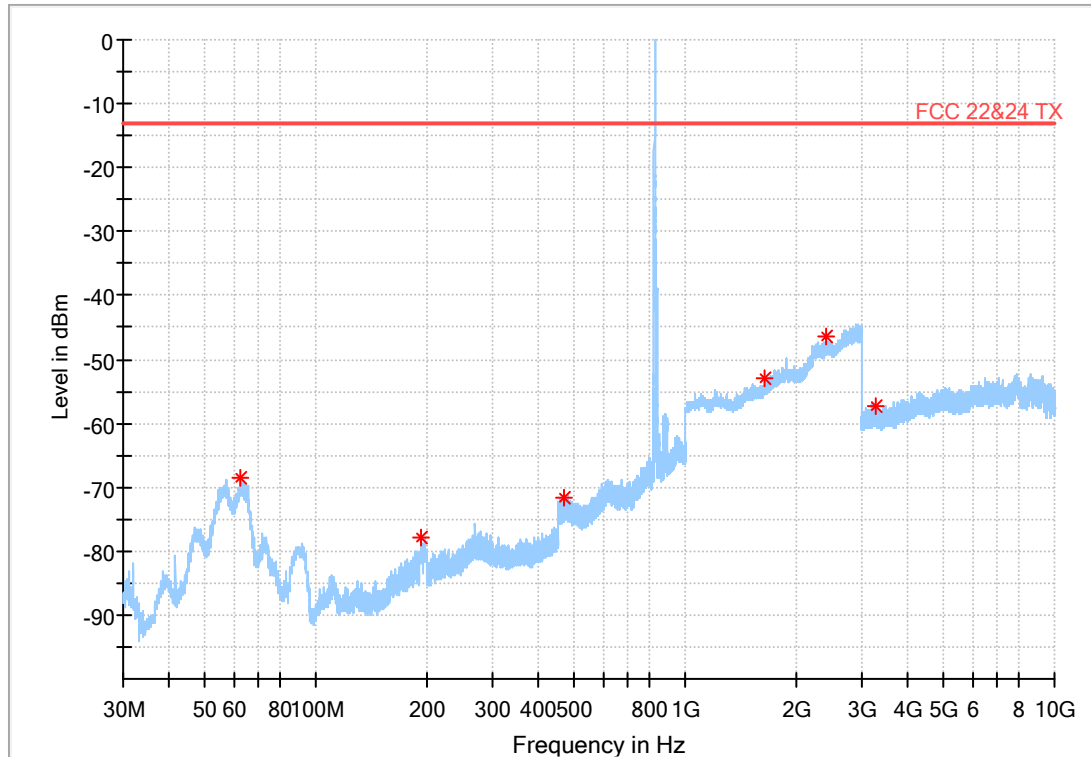


7.1.2 Test Band = LTE Band CA_5B_Secondary Antenna

7.1.2.1 Test Mode =LTE/TM1 50RB+50RB

7.1.2.1.1 Test Channel = 20450-20549_H

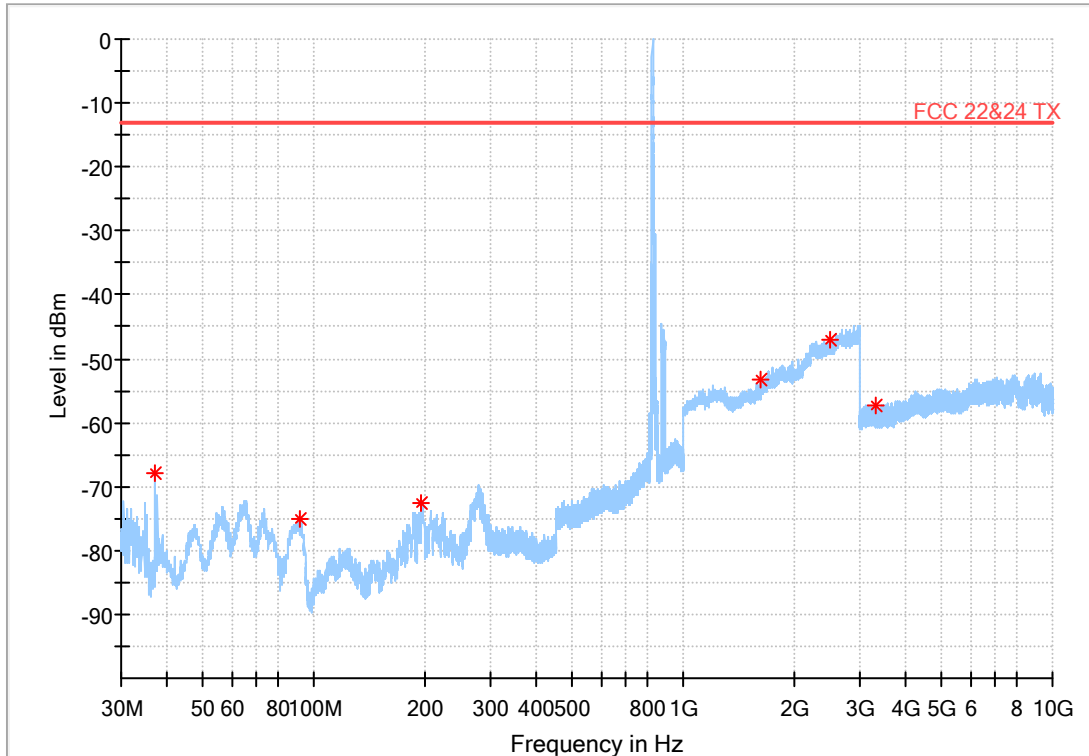
Full Spectrum





7.1.2.1.2 Test Channel = 20450-20549_V

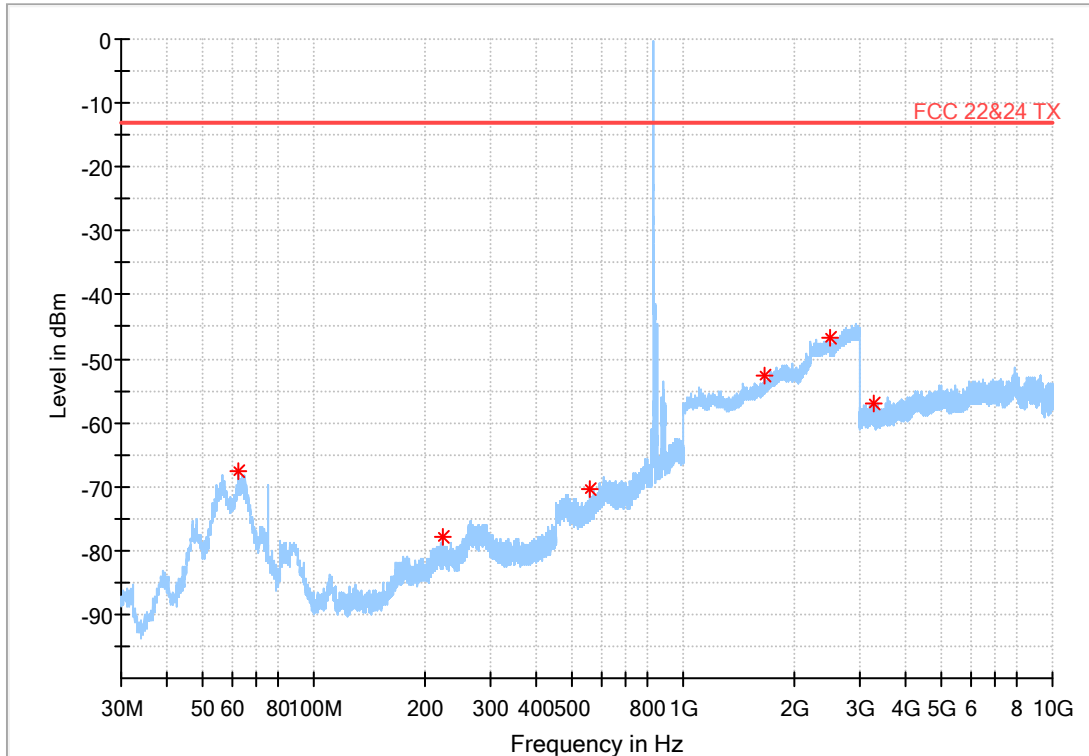
Full Spectrum





7.1.2.1.3 Test Channel = 20476-20575_H

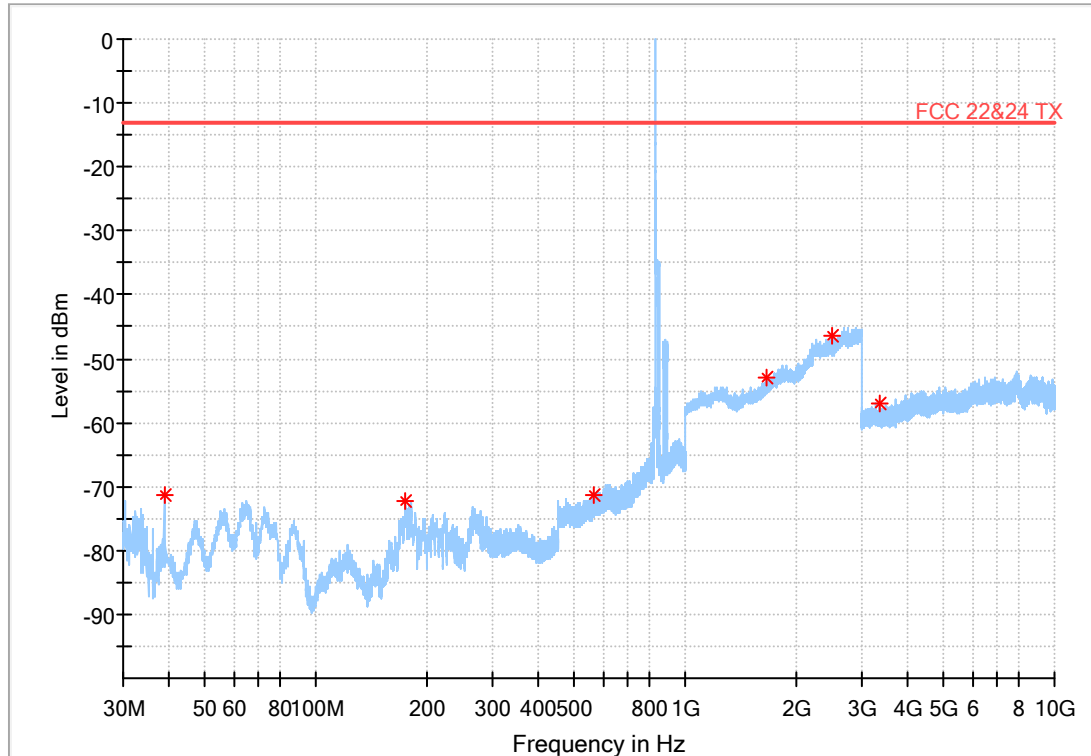
Full Spectrum





7.1.2.1.4 Test Channel = 20476-20575_V

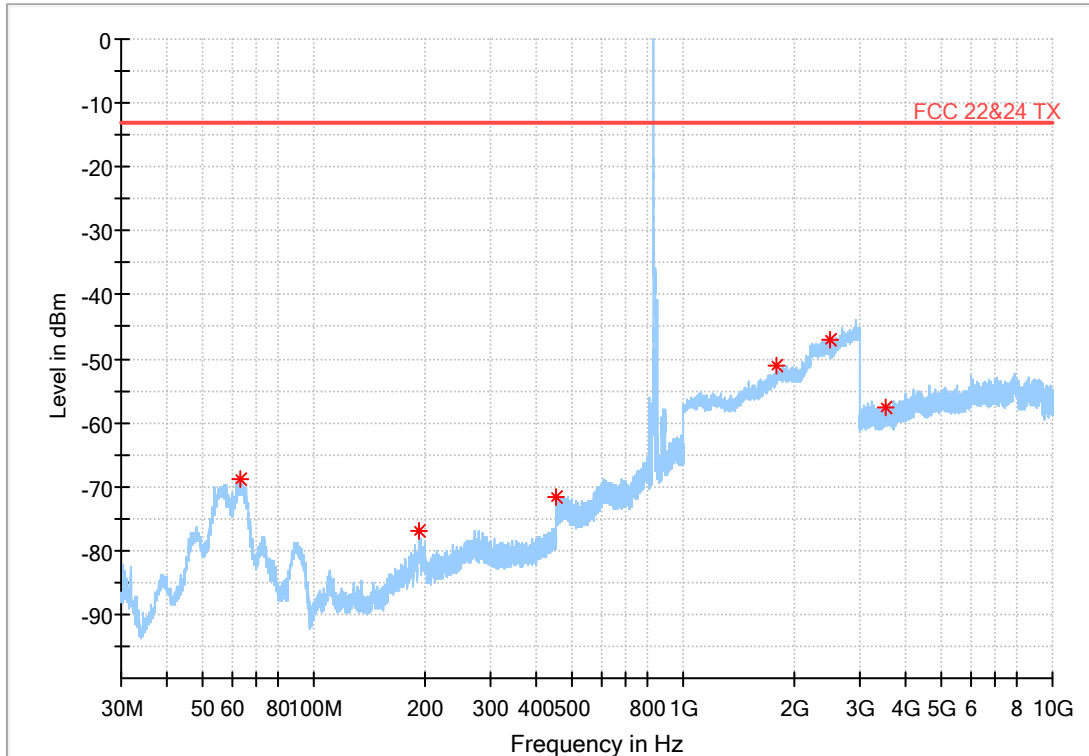
Full Spectrum





7.1.2.1.5 Test Channel = 20501-20600_H

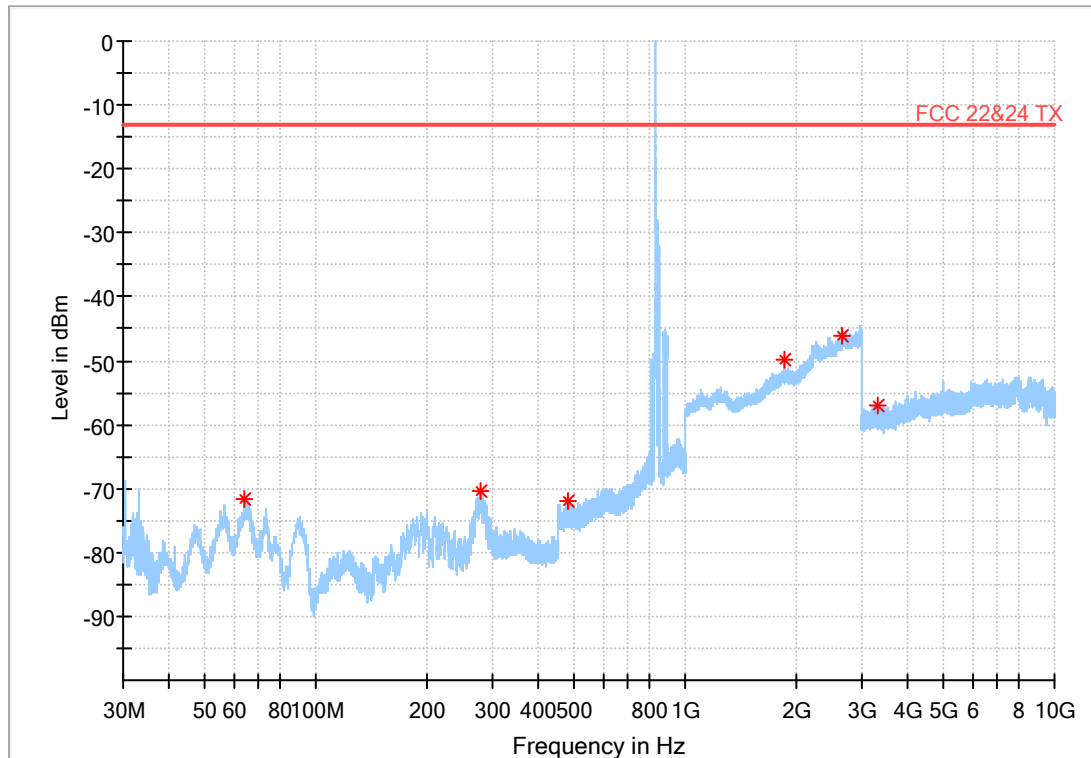
Full Spectrum





7.1.2.1.6 Test Channel = 20501-20600_V

Full Spectrum



NOTE:

- 1) The disturbance 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_5B	LTE/TM1 25RB+50RB	20428+20500	TN	VL	9.20	0.01113	PASS
				VN	-1.05	-0.00127	PASS
				VH	8.07	0.00976	PASS
		20478+20550	TN	VL	-3.67	-0.00441	PASS
				VN	-2.62	-0.00315	PASS
				VH	-0.17	-0.00020	PASS
		20528+20600	TN	VL	2.75	0.00329	PASS
				VN	8.89	0.01062	PASS
				VH	-4.38	-0.00524	PASS
	LTE/TM2 25RB+50RB	20428+20500	TN	VL	6.19	0.00748	PASS
				VN	5.64	0.00682	PASS
				VH	-1.23	-0.00149	PASS
		20478+20550	TN	VL	-1.47	-0.00176	PASS
				VN	3.94	0.00474	PASS
				VH	-6.23	-0.00749	PASS
		20528+20600	TN	VL	9.46	0.01131	PASS
				VN	-0.59	-0.00071	PASS
				VH	9.73	0.01162	PASS
	LTE/TM3 25RB+50RB	20428+20500	TN	VL	7.69	0.00930	PASS
				VN	-8.33	-0.01007	PASS
				VH	9.46	0.01144	PASS
		20478+20550	TN	VL	9.85	0.01184	PASS
				VN	-2.19	-0.00264	PASS
				VH	2.34	0.00282	PASS
		20528+20600	TN	VL	7.76	0.00927	PASS
				VN	5.00	0.00598	PASS
				VH	1.02	0.00121	PASS



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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM1 50RB+50RB	20450+20549	TN	VL	8.65	0.01044	PASS
				VN	6.42	0.00775	PASS
				VH	7.36	0.00888	PASS
		20476+20575	TN	VL	-9.43	-0.01134	PASS
				VN	-5.38	-0.00647	PASS
				VH	-8.68	-0.01044	PASS
		20501+20600	TN	VL	-0.96	-0.00115	PASS
				VN	-4.62	-0.00554	PASS
				VH	-3.90	-0.00467	PASS
	LTE/TM2 50RB+50RB	20450+20549	TN	VL	-7.77	-0.00937	PASS
				VN	0.85	0.00102	PASS
				VH	2.50	0.00301	PASS
		20476+20575	TN	VL	-0.35	-0.00042	PASS
				VN	6.38	0.00768	PASS
				VH	-8.26	-0.00993	PASS
		20501+20600	TN	VL	-6.10	-0.00732	PASS
				VN	6.90	0.00827	PASS
				VH	-4.09	-0.00490	PASS
	LTE/TM3 50RB+50RB	20450+20549	TN	VL	7.54	0.00909	PASS
				VN	3.87	0.00467	PASS
				VH	9.83	0.01186	PASS
		20476+20575	TN	VL	-0.05	-0.00006	PASS
				VN	-1.97	-0.00237	PASS
				VH	-1.96	-0.00236	PASS
		20501+20600	TN	VL	-3.85	-0.00461	PASS
				VN	-3.10	-0.00372	PASS
				VH	9.41	0.01128	PASS



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_5B	LTE/TM1 25RB+50RB	20428+20500	VN	-30	-8.26	-0.00999	PASS
				-20	-4.79	-0.00579	PASS
				-10	-4.81	-0.00582	PASS
				0	7.95	0.00961	PASS
				10	-6.62	-0.00801	PASS
				20	3.10	0.00375	PASS
				30	-0.06	-0.00007	PASS
				40	5.27	0.00637	PASS
				50	-7.92	-0.00958	PASS
		20478+20550	VN	-30	2.75	0.00330	PASS
				-20	7.62	0.00916	PASS
				-10	-5.49	-0.00660	PASS
				0	9.53	0.01146	PASS
				10	-8.45	-0.01016	PASS
				20	1.40	0.00168	PASS
				30	9.92	0.01193	PASS
				40	-2.04	-0.00245	PASS
				50	6.08	0.00730	PASS
		20528+20600	VN	-30	5.13	0.00613	PASS
				-20	-6.87	-0.00821	PASS
				-10	7.49	0.00896	PASS
				0	1.39	0.00167	PASS
				10	-1.43	-0.00171	PASS
				20	1.64	0.00196	PASS
				30	6.79	0.00811	PASS
				40	1.51	0.00180	PASS
				50	-0.24	-0.00029	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM2 25RB+50RB	20428+20500	VN	-30	-4.72	-0.00571	PASS
				-20	-3.48	-0.00421	PASS
				-10	-1.67	-0.00202	PASS
				0	5.66	0.00684	PASS
				10	3.23	0.00391	PASS
				20	-1.68	-0.00203	PASS
				30	-8.24	-0.00996	PASS
				40	-6.60	-0.00798	PASS
				50	2.85	0.00345	PASS
		20478+20550	VN	-30	-5.54	-0.00666	PASS
				-20	-9.88	-0.01188	PASS
				-10	2.43	0.00292	PASS
				0	-9.33	-0.01121	PASS
				10	-7.00	-0.00841	PASS
				20	-3.43	-0.00412	PASS
				30	-9.35	-0.01125	PASS
				40	9.32	0.01121	PASS
				50	-2.46	-0.00296	PASS
		20528+20600	VN	-30	-9.73	-0.01163	PASS
				-20	6.99	0.00835	PASS
				-10	-6.41	-0.00766	PASS
				0	-8.09	-0.00967	PASS
				10	-5.86	-0.00700	PASS
				20	6.86	0.00820	PASS
				30	6.50	0.00777	PASS
				40	0.06	0.00008	PASS
				50	6.89	0.00824	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM3 25RB+50RB	20428+20500	VN	-30	1.20	0.00145	PASS
				-20	-7.59	-0.00918	PASS
				-10	9.37	0.01133	PASS
				0	3.44	0.00416	PASS
				10	0.16	0.00019	PASS
				20	-8.16	-0.00987	PASS
				30	-6.55	-0.00792	PASS
				40	5.17	0.00625	PASS
				50	5.32	0.00643	PASS
		20478+20550	VN	-30	-9.38	-0.01127	PASS
				-20	-0.59	-0.00071	PASS
				-10	-0.32	-0.00038	PASS
				0	5.73	0.00689	PASS
				10	7.91	0.00951	PASS
				20	-1.23	-0.00148	PASS
				30	0.21	0.00026	PASS
				40	-6.11	-0.00735	PASS
				50	3.42	0.00411	PASS
		20528+20600	VN	-30	1.70	0.00203	PASS
				-20	0.13	0.00015	PASS
				-10	7.43	0.00887	PASS
				0	4.41	0.00527	PASS
				10	3.55	0.00425	PASS
				20	0.72	0.00086	PASS
				30	2.59	0.00310	PASS
				40	6.56	0.00783	PASS
				50	-9.46	-0.01131	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM1 50RB+50RB	20450+20549	VN	-30	-4.84	-0.00583	PASS
				-20	-7.02	-0.00846	PASS
				-10	3.50	0.00422	PASS
				0	7.24	0.00873	PASS
				10	9.16	0.01105	PASS
				20	-3.06	-0.00369	PASS
				30	2.86	0.00345	PASS
				40	-5.97	-0.00720	PASS
				50	-9.99	-0.01205	PASS
		20476+20575	VN	-30	-8.01	-0.00963	PASS
				-20	7.24	0.00871	PASS
				-10	-5.47	-0.00657	PASS
				0	7.79	0.00937	PASS
				10	7.88	0.00948	PASS
				20	2.51	0.00302	PASS
				30	-1.71	-0.00206	PASS
				40	7.93	0.00954	PASS
				50	0.31	0.00037	PASS
		20501+20600	VN	-30	2.38	0.00285	PASS
				-20	1.63	0.00195	PASS
				-10	7.67	0.00919	PASS
				0	0.16	0.00019	PASS
				10	4.15	0.00498	PASS
				20	7.49	0.00897	PASS
				30	4.75	0.00569	PASS
				40	-9.79	-0.01174	PASS
				50	4.00	0.00480	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM2 50RB+50RB	20450+20549	VN	-30	7.17	0.00865	PASS
				-20	2.10	0.00253	PASS
				-10	-0.01	-0.00001	PASS
				0	1.54	0.00186	PASS
				10	-0.65	-0.00078	PASS
				20	4.24	0.00512	PASS
				30	-7.36	-0.00887	PASS
				40	-1.65	-0.00199	PASS
				50	1.59	0.00191	PASS
		20476+20575	VN	-30	6.52	0.00784	PASS
				-20	9.92	0.01193	PASS
				-10	-4.54	-0.00546	PASS
				0	7.84	0.00943	PASS
				10	8.87	0.01067	PASS
				20	-0.22	-0.00027	PASS
				30	8.04	0.00966	PASS
				40	-0.86	-0.00104	PASS
				50	0.08	0.00010	PASS
		20501+20600	VN	-30	7.27	0.00872	PASS
				-20	-4.19	-0.00502	PASS
				-10	2.60	0.00311	PASS
				0	-7.53	-0.00903	PASS
				10	-8.46	-0.01014	PASS
				20	-5.09	-0.00610	PASS
				30	0.43	0.00052	PASS
				40	4.00	0.00480	PASS
				50	0.56	0.00067	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_5B	LTE/TM3 50RB+50RB	20450+20549	VN	-30	-5.54	-0.00668	PASS
				-20	0.49	0.00059	PASS
				-10	-9.70	-0.01170	PASS
				0	6.76	0.00816	PASS
				10	-6.29	-0.00759	PASS
				20	-7.13	-0.00860	PASS
				30	-8.87	-0.01070	PASS
				40	8.82	0.01064	PASS
				50	-9.75	-0.01176	PASS
		20476+20575	VN	-30	5.47	0.00658	PASS
				-20	-1.07	-0.00129	PASS
				-10	-0.81	-0.00097	PASS
				0	-2.80	-0.00337	PASS
				10	6.98	0.00839	PASS
				20	-8.72	-0.01049	PASS
				30	8.12	0.00977	PASS
				40	-8.61	-0.01035	PASS
				50	4.83	0.00581	PASS
		20501+20600	VN	-30	8.53	0.01023	PASS
				-20	-8.04	-0.00964	PASS
				-10	4.75	0.00570	PASS
				0	7.78	0.00933	PASS
				10	6.48	0.00776	PASS
				20	-9.67	-0.01160	PASS
				30	0.01	0.00001	PASS
				40	0.56	0.00067	PASS
				50	0.54	0.00065	PASS

The End