

Appendix Test Data for WCDMA_band_5

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band5_ERP

Band: 5								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	24.03	0.70	22.58	<=38.45	Pass
			836.6	23.99	0.70	22.54	<=38.45	Pass
			846.6	24.01	0.70	22.56	<=38.45	Pass
	HSDPA	Subtest 1	826.4	21.68	0.70	20.23	<=38.45	Pass
		Subtest 2	826.4	21.68	0.70	20.23	<=38.45	Pass
		Subtest 3	826.4	21.68	0.70	20.23	<=38.45	Pass
		Subtest 4	826.4	21.69	0.70	20.24	<=38.45	Pass
		Subtest 1	836.6	21.65	0.70	20.20	<=38.45	Pass
		Subtest 2	836.6	21.66	0.70	20.21	<=38.45	Pass
		Subtest 3	836.6	21.64	0.70	20.19	<=38.45	Pass
		Subtest 4	836.6	21.65	0.70	20.20	<=38.45	Pass
		Subtest 1	846.6	21.73	0.70	20.28	<=38.45	Pass
		Subtest 2	846.6	21.75	0.70	20.30	<=38.45	Pass
		Subtest 3	846.6	21.72	0.70	20.27	<=38.45	Pass
		Subtest 4	846.6	21.70	0.70	20.25	<=38.45	Pass
	HSUPA	Subtest 1	826.4	18.93	0.70	17.48	<=38.45	Pass
		Subtest 2	826.4	19.11	0.70	17.66	<=38.45	Pass
		Subtest 3	826.4	19.41	0.70	17.96	<=38.45	Pass
		Subtest 4	826.4	19.43	0.70	17.98	<=38.45	Pass
		Subtest 5	826.4	19.63	0.70	18.18	<=38.45	Pass
		Subtest 1	836.6	19.19	0.70	17.74	<=38.45	Pass
		Subtest 2	836.6	19.47	0.70	18.02	<=38.45	Pass
		Subtest 3	836.6	19.47	0.70	18.02	<=38.45	Pass
		Subtest 4	836.6	19.40	0.70	17.95	<=38.45	Pass
		Subtest 5	836.6	19.90	0.70	18.45	<=38.45	Pass
		Subtest 1	846.6	19.14	0.70	17.69	<=38.45	Pass
		Subtest 2	846.6	19.12	0.70	17.67	<=38.45	Pass
		Subtest 3	846.6	19.12	0.70	17.67	<=38.45	Pass
		Subtest 4	846.6	19.42	0.70	17.97	<=38.45	Pass
		Subtest 5	846.6	19.89	0.70	18.44	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 Band5

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-1.101	-0.0013	-2.5 to 2.5	Pass
			3.85	-0.358	-0.0004	-2.5 to 2.5	Pass
			4.43	-1.202	-0.0015	-2.5 to 2.5	Pass
		-30	3.85	-1.867	-0.0023	-2.5 to 2.5	Pass
		-20	3.85	-1.502	-0.0018	-2.5 to 2.5	Pass

	836.6	-10	3.85	-0.608	-0.0007	-2.5 to 2.5	Pass	
		0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass	
		10	3.85	-1.616	-0.0020	-2.5 to 2.5	Pass	
		30	3.85	-0.608	-0.0007	-2.5 to 2.5	Pass	
		40	3.85	0.865	0.0010	-2.5 to 2.5	Pass	
		50	3.85	-1.695	-0.0021	-2.5 to 2.5	Pass	
		846.6	20	3.27	-1.173	-0.0014	-2.5 to 2.5	Pass
				3.85	1.159	0.0014	-2.5 to 2.5	Pass
				4.43	-1.838	-0.0022	-2.5 to 2.5	Pass
			-30	3.85	0.501	0.0006	-2.5 to 2.5	Pass
			-20	3.85	-0.200	-0.0002	-2.5 to 2.5	Pass
			-10	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
	0		3.85	-0.536	-0.0006	-2.5 to 2.5	Pass	
	10		3.85	-0.572	-0.0007	-2.5 to 2.5	Pass	
	30		3.85	-0.379	-0.0005	-2.5 to 2.5	Pass	
	40		3.85	-0.057	-0.0001	-2.5 to 2.5	Pass	
	50		3.85	0.465	0.0006	-2.5 to 2.5	Pass	
	846.6		20	3.27	1.116	0.0013	-2.5 to 2.5	Pass
		3.85		1.931	0.0023	-2.5 to 2.5	Pass	
		4.43		1.531	0.0018	-2.5 to 2.5	Pass	
		-30	3.85	1.652	0.0020	-2.5 to 2.5	Pass	
		-20	3.85	0.923	0.0011	-2.5 to 2.5	Pass	
		-10	3.85	1.867	0.0022	-2.5 to 2.5	Pass	
		0	3.85	0.408	0.0005	-2.5 to 2.5	Pass	
		10	3.85	2.711	0.0032	-2.5 to 2.5	Pass	
		30	3.85	1.581	0.0019	-2.5 to 2.5	Pass	
		40	3.85	2.425	0.0029	-2.5 to 2.5	Pass	
		50	3.85	2.367	0.0028	-2.5 to 2.5	Pass	
		HSDPA	826.4	20	3.27	0.558	0.0007	-2.5 to 2.5
	3.85				-0.350	-0.0004	-2.5 to 2.5	Pass
4.43	0.443				0.0005	-2.5 to 2.5	Pass	
-30	3.85			0.944	0.0011	-2.5 to 2.5	Pass	
-20	3.85			-0.451	-0.0005	-2.5 to 2.5	Pass	
-10	3.85			0.036	0.0000	-2.5 to 2.5	Pass	
0	3.85			-0.651	-0.0008	-2.5 to 2.5	Pass	
10	3.85			-0.279	-0.0003	-2.5 to 2.5	Pass	
30	3.85			0.458	0.0006	-2.5 to 2.5	Pass	
40	3.85			2.096	0.0025	-2.5 to 2.5	Pass	
50	3.85			-0.494	-0.0006	-2.5 to 2.5	Pass	
836.6	20			3.27	0.737	0.0009	-2.5 to 2.5	Pass
			3.85	-0.172	-0.0002	-2.5 to 2.5	Pass	
			4.43	1.144	0.0014	-2.5 to 2.5	Pass	
	-30		3.85	1.023	0.0012	-2.5 to 2.5	Pass	
	-20		3.85	1.080	0.0013	-2.5 to 2.5	Pass	
	-10		3.85	-0.701	-0.0008	-2.5 to 2.5	Pass	
	0		3.85	0.744	0.0009	-2.5 to 2.5	Pass	
	10		3.85	2.074	0.0025	-2.5 to 2.5	Pass	
	30		3.85	2.439	0.0029	-2.5 to 2.5	Pass	
	40		3.85	0.222	0.0003	-2.5 to 2.5	Pass	
	50		3.85	2.396	0.0029	-2.5 to 2.5	Pass	
	846.6		20	3.27	1.273	0.0015	-2.5 to 2.5	Pass
3.85				3.591	0.0042	-2.5 to 2.5	Pass	
4.43				1.581	0.0019	-2.5 to 2.5	Pass	
-30			3.85	3.211	0.0038	-2.5 to 2.5	Pass	
-20			3.85	2.689	0.0032	-2.5 to 2.5	Pass	
-10			3.85	2.675	0.0032	-2.5 to 2.5	Pass	
0			3.85	1.016	0.0012	-2.5 to 2.5	Pass	
10			3.85	1.802	0.0021	-2.5 to 2.5	Pass	
30		3.85	1.967	0.0023	-2.5 to 2.5	Pass		

HSUPA	40	3.85	1.302	0.0015	-2.5 to 2.5	Pass
		50	3.85	2.661	0.0031	Pass
		20	3.27	-3.698	-0.0045	Pass
	20	3.85	-4.499	-0.0054	-2.5 to 2.5	Pass
		4.43	-5.436	-0.0066	-2.5 to 2.5	Pass
		-30	3.85	-4.435	-0.0054	Pass
	-30	3.85	-3.734	-0.0045	-2.5 to 2.5	Pass
		-20	3.85	-4.177	-0.0051	Pass
		-10	3.85	-5.500	-0.0067	Pass
	0	3.85	-4.177	-0.0051	-2.5 to 2.5	Pass
		10	3.85	-5.536	-0.0067	Pass
		30	3.85	-5.765	-0.0070	Pass
	40	3.85	-3.641	-0.0044	-2.5 to 2.5	Pass
		50	3.27	-1.781	-0.0021	Pass
		20	3.85	-2.546	-0.0030	Pass
	20	4.43	-3.805	-0.0045	-2.5 to 2.5	Pass
		-30	3.85	-1.988	-0.0024	Pass
		-20	3.85	-2.382	-0.0028	Pass
	-30	-10	3.85	-2.317	-0.0028	Pass
		0	3.85	-2.675	-0.0032	Pass
		10	3.85	-3.383	-0.0040	Pass
	0	30	3.85	-2.117	-0.0025	Pass
		40	3.85	-2.232	-0.0027	Pass
		50	3.85	-3.283	-0.0039	Pass
	40	3.27	-0.687	-0.0008	-2.5 to 2.5	Pass
		20	3.85	-0.644	-0.0008	Pass
		4.43	-0.422	-0.0005	-2.5 to 2.5	Pass
	20	-30	3.85	-0.808	-0.0010	Pass
		-20	3.85	-0.243	-0.0003	Pass
		-10	3.85	-0.029	0.0000	Pass
	0	0	3.85	-1.380	-0.0016	Pass
		10	3.85	-1.552	-0.0018	Pass
		30	3.85	-1.066	-0.0013	Pass
	40	3.85	-1.731	-0.0020	-2.5 to 2.5	Pass
		50	3.85	-0.329	-0.0004	Pass
						Pass

3. Modulation Characteristics

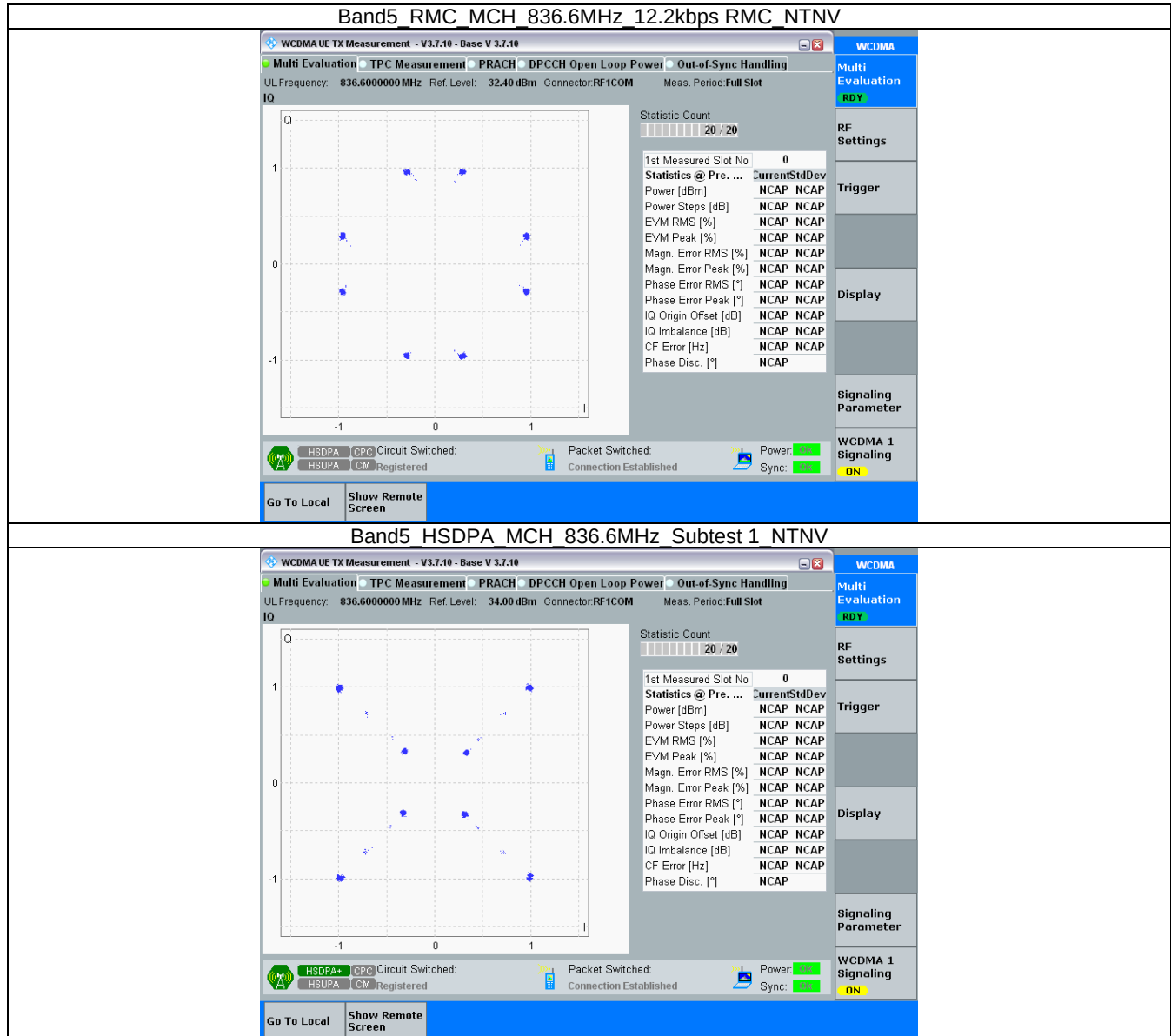
3.1 Test Result

3.1.1 Band5

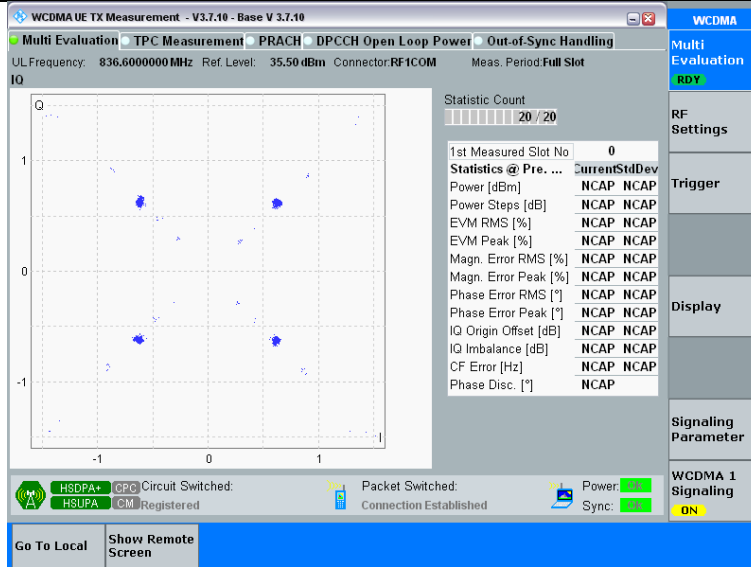
Band: 5					
ENV	Mode		Frequency (MHz)	Modulation Characteristics	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph	Pass

3.2 Test Graph

3.2.1 Band5



Band5 HSUPA MCH_836.6MHz_Subtest_1_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band5_OBW

Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.148	/	Pass
			836.6	4.163	/	Pass
			846.6	4.174	/	Pass
	HSDPA	Subtest 1	826.4	4.151	/	Pass
			836.6	4.168	/	Pass
			846.6	4.180	/	Pass
	HSUPA	Subtest 1	826.4	4.173	/	Pass
			836.6	4.156	/	Pass
			846.6	4.170	/	Pass

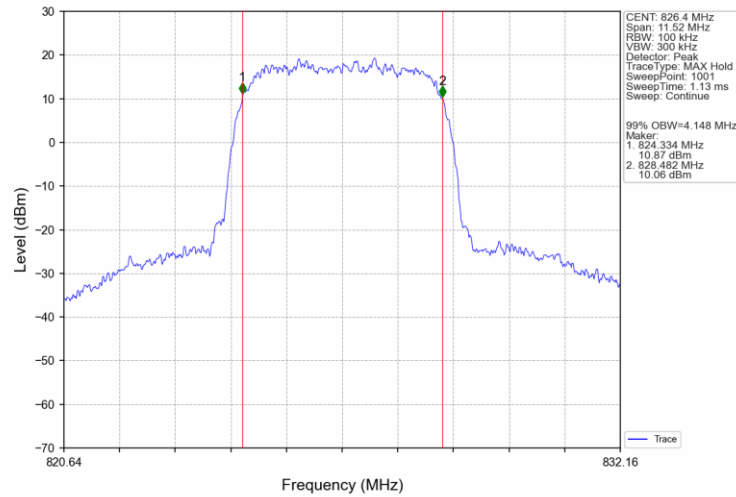
4.1.2 Band5_XDB

Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.733	/	Pass
			836.6	4.713	/	Pass
			846.6	4.730	/	Pass
	HSDPA	Subtest 1	826.4	4.704	/	Pass
			836.6	4.718	/	Pass
			846.6	4.743	/	Pass
	HSUPA	Subtest 1	826.4	4.719	/	Pass
			836.6	4.715	/	Pass
			846.6	4.728	/	Pass

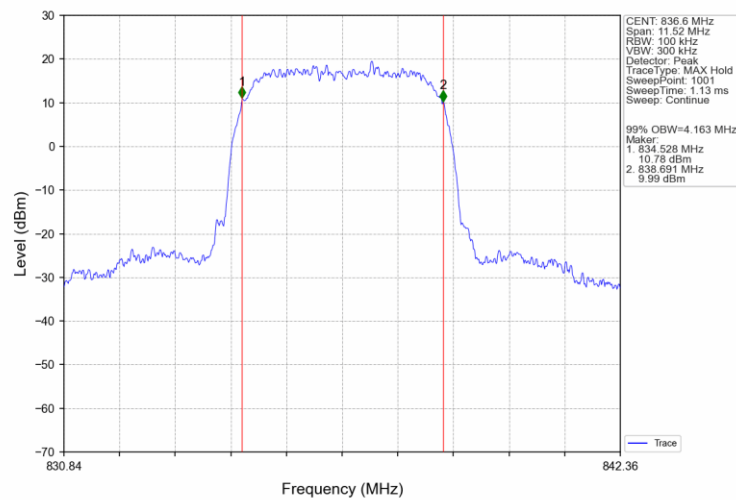
4.2 Test Graph

4.2.1 Band5_OBW

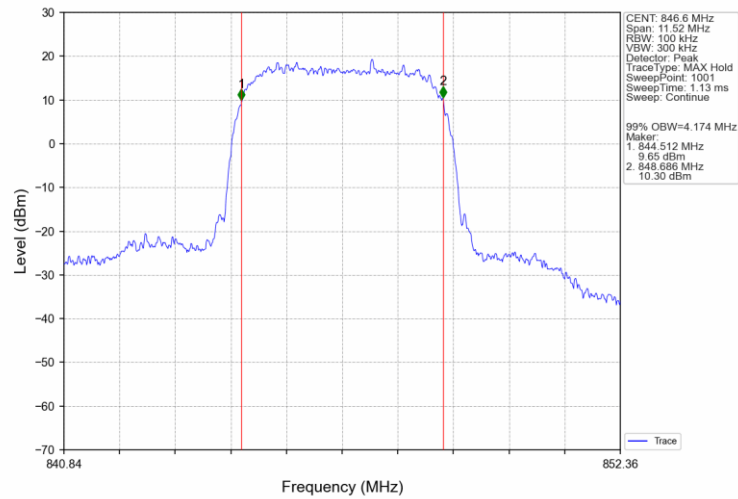
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



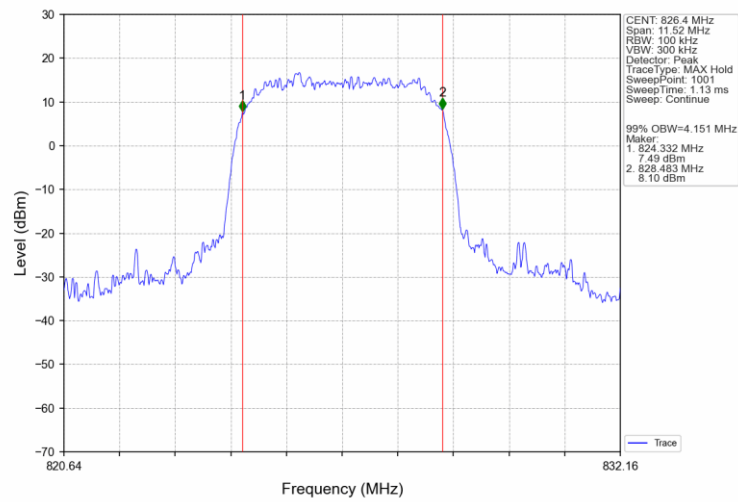
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



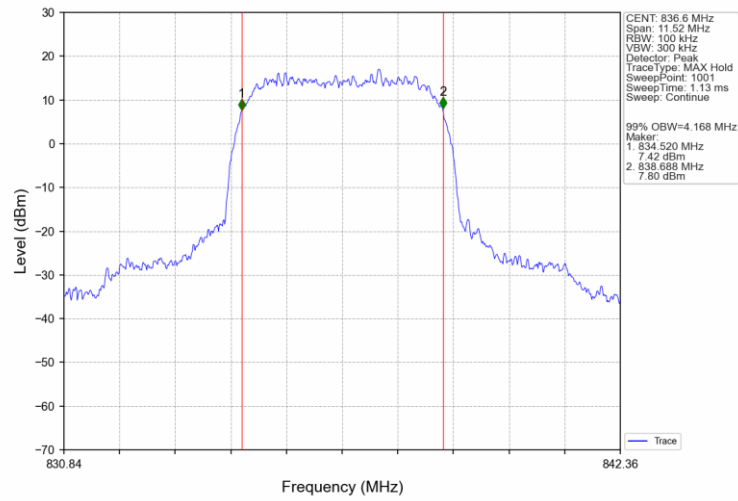
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



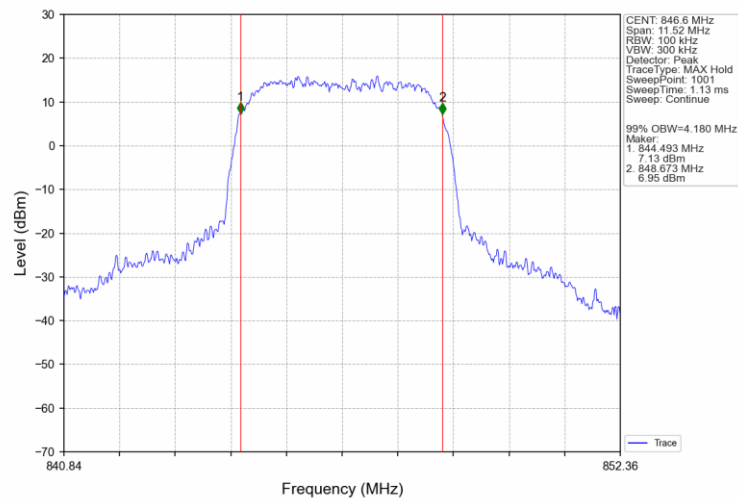
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



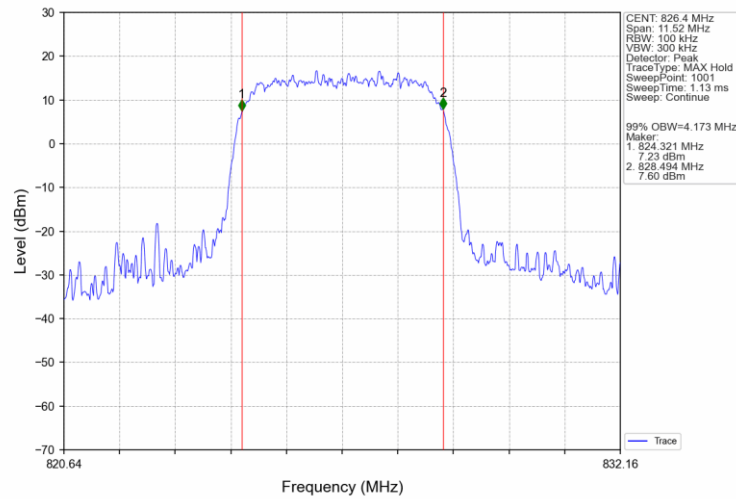
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



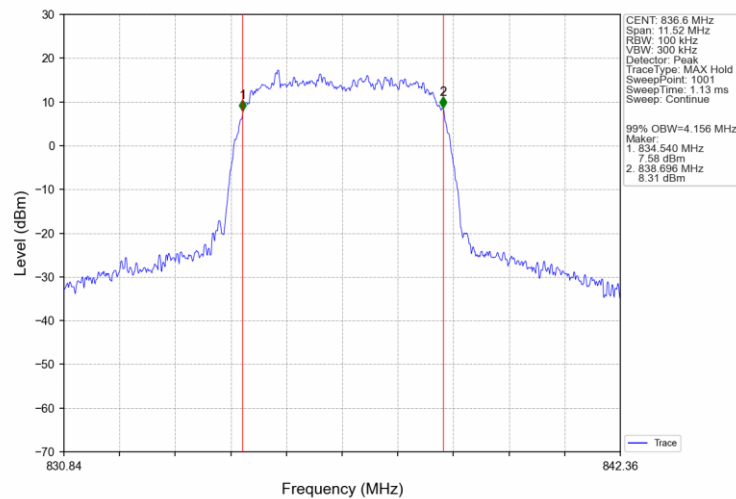
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



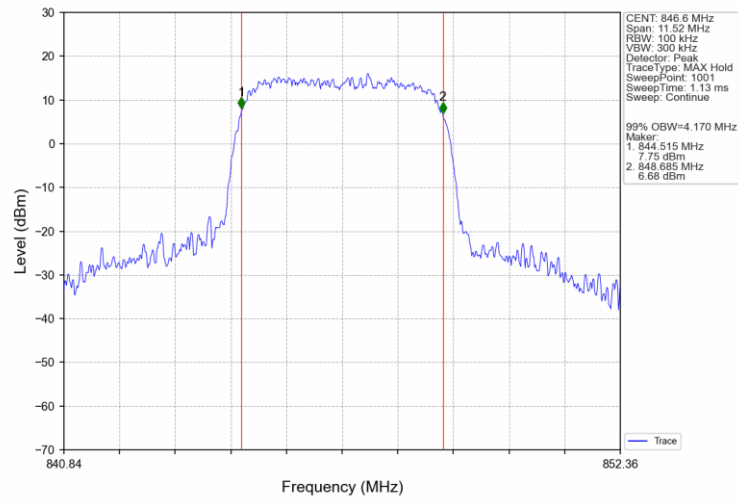
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

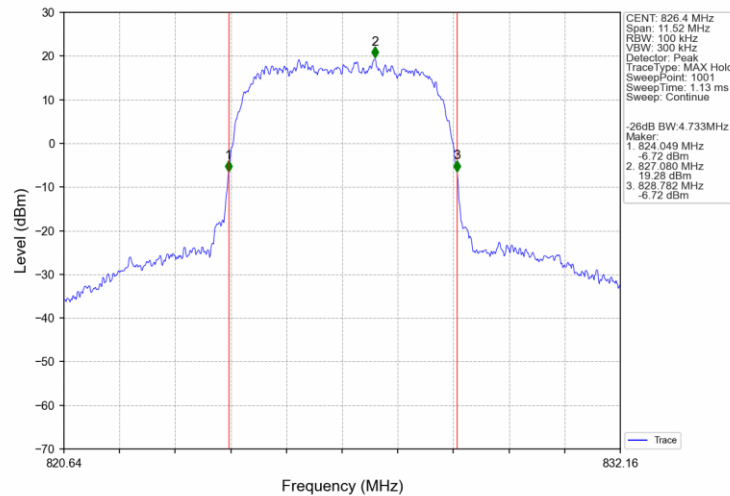


Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV

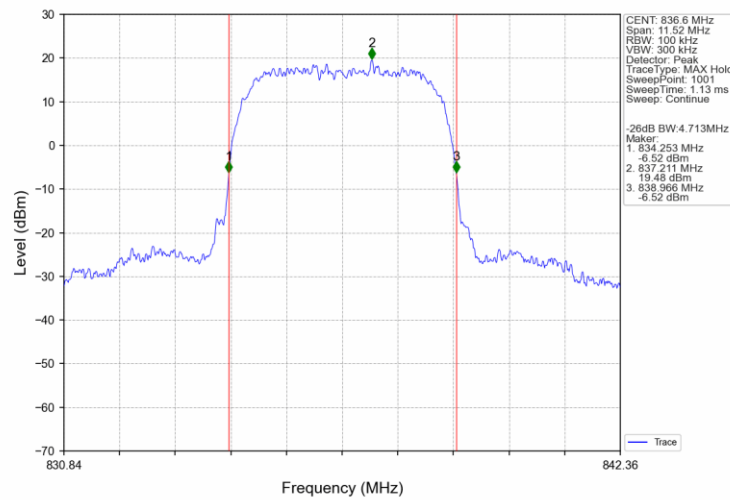


4.2.2 Band5_XDB

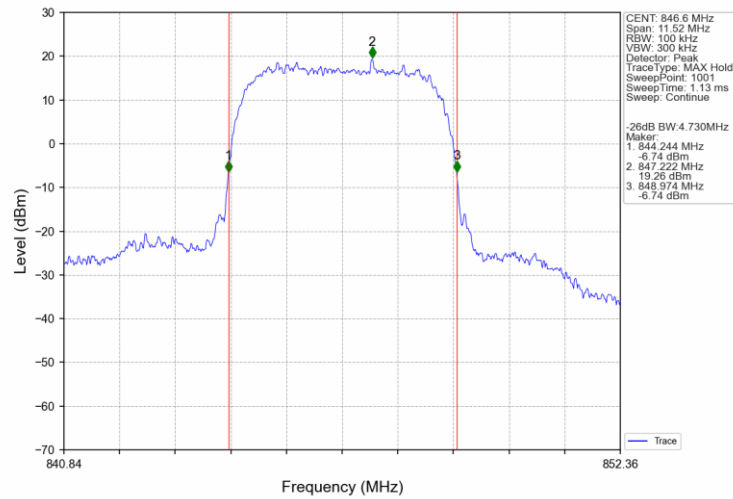
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



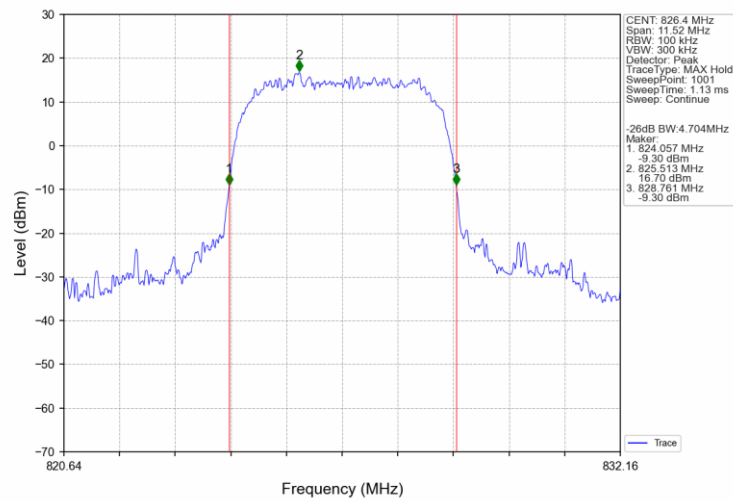
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



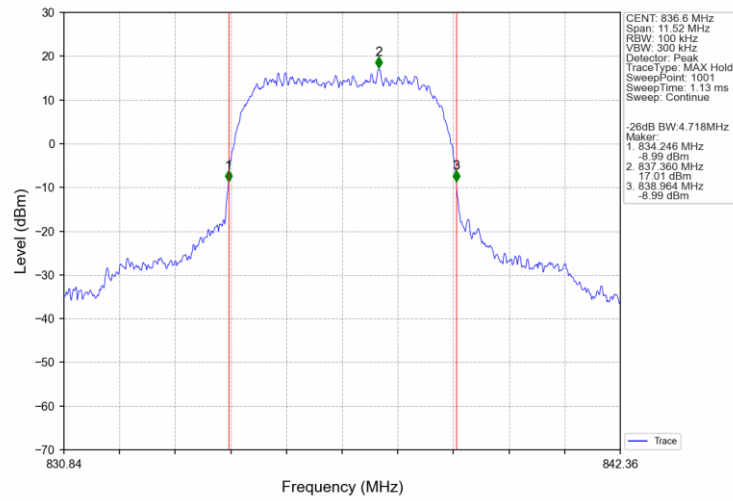
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



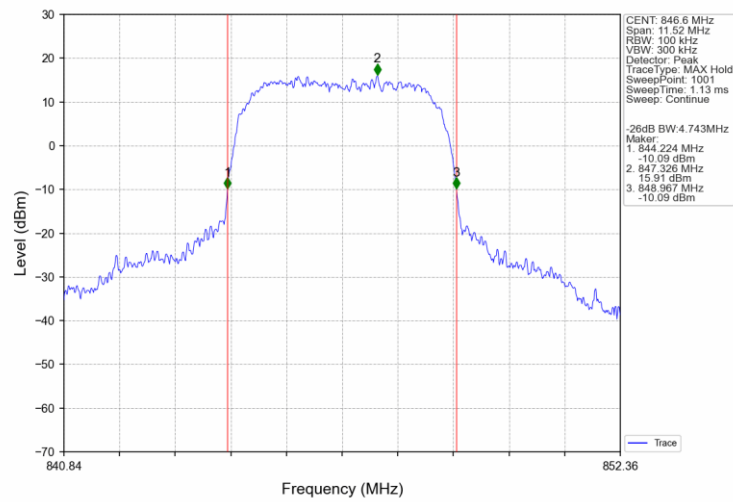
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



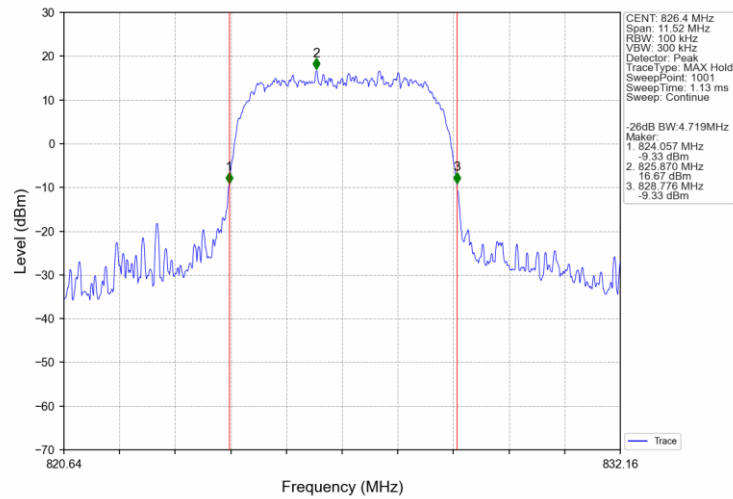
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



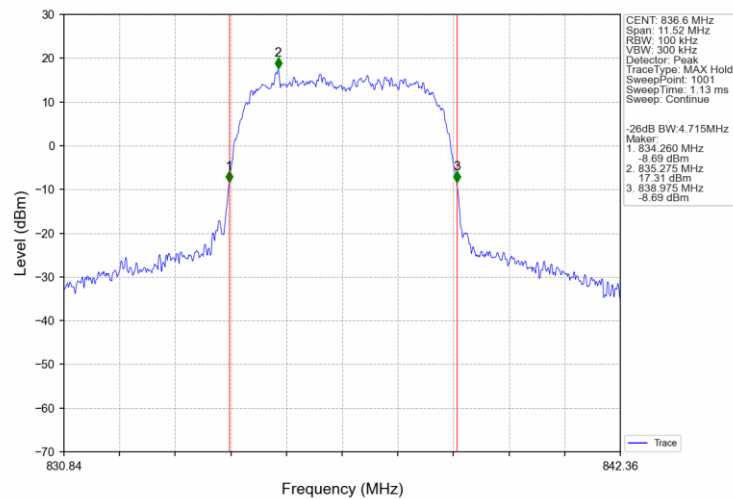
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



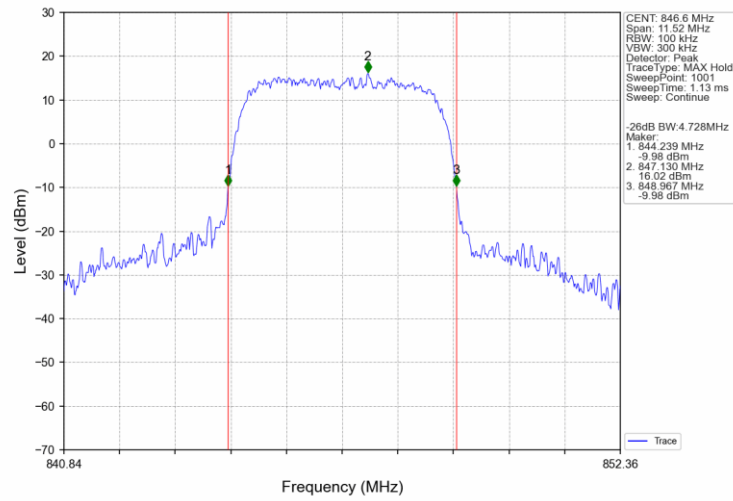
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



5. Peak-Average Ratio

5.1 Test Result

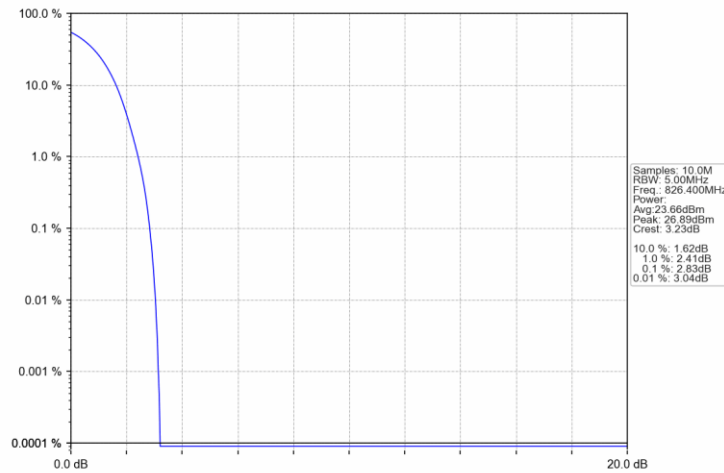
5.1.1 Band5

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.83	<=13	Pass
			836.6	3.00	<=13	Pass
			846.6	3.00	<=13	Pass
	HSDPA	Subtest 1	826.4	5.72	<=13	Pass
			836.6	5.84	<=13	Pass
			846.6	5.90	<=13	Pass
	HSUPA	Subtest 1	826.4	6.75	<=13	Pass
			836.6	6.98	<=13	Pass
			846.6	6.84	<=13	Pass

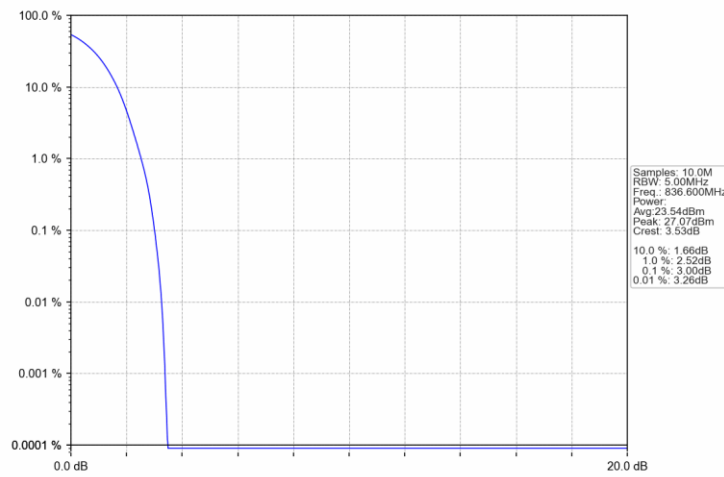
5.2 Test Graph

5.2.1 Band5

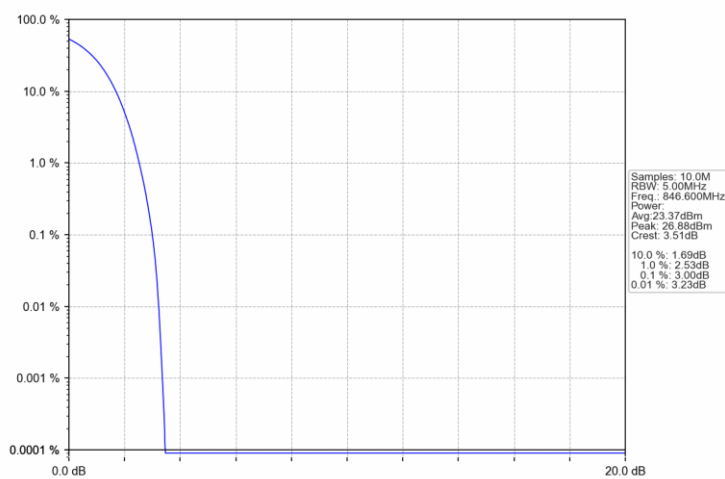
Band5_RMC_LCH_826.4MHz_12.2kbps RMC NTNv



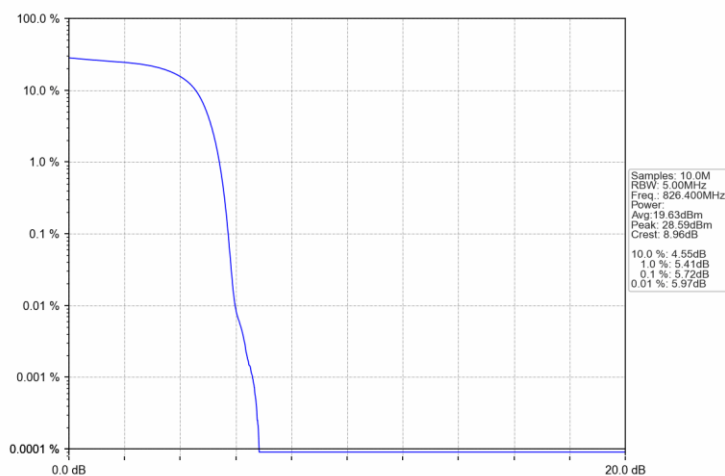
Band5_RMC_MCH_836.6MHz_12.2kbps RMC NTNv



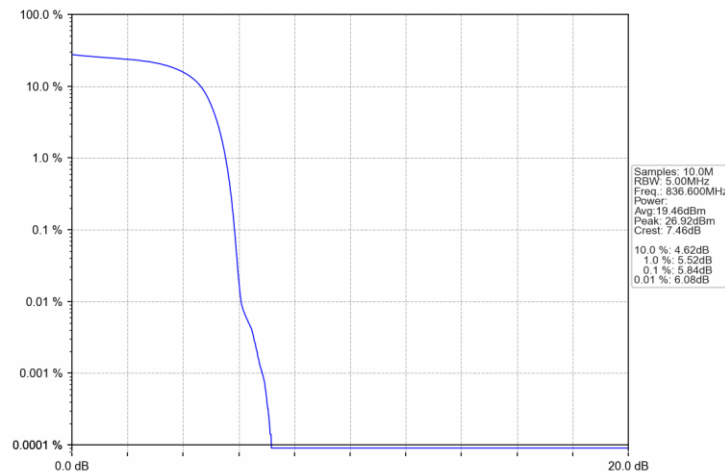
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



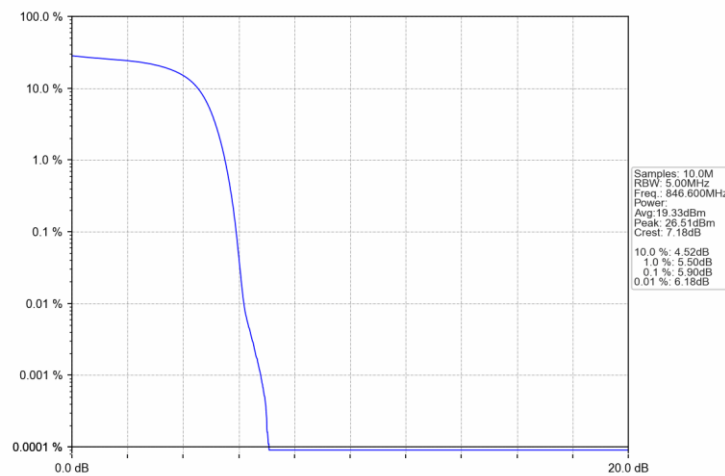
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV

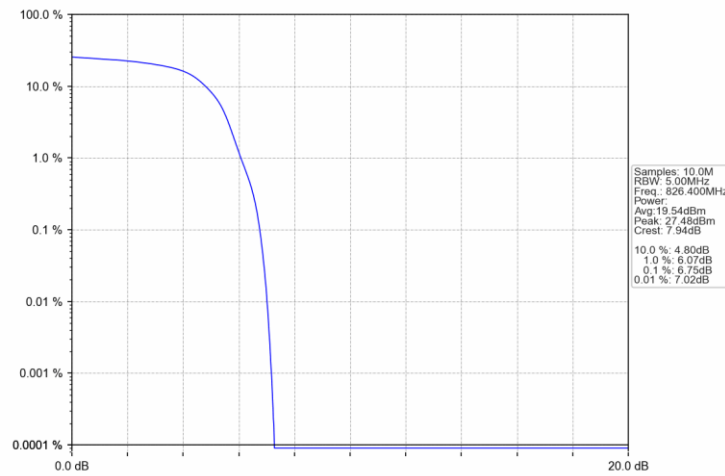


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV

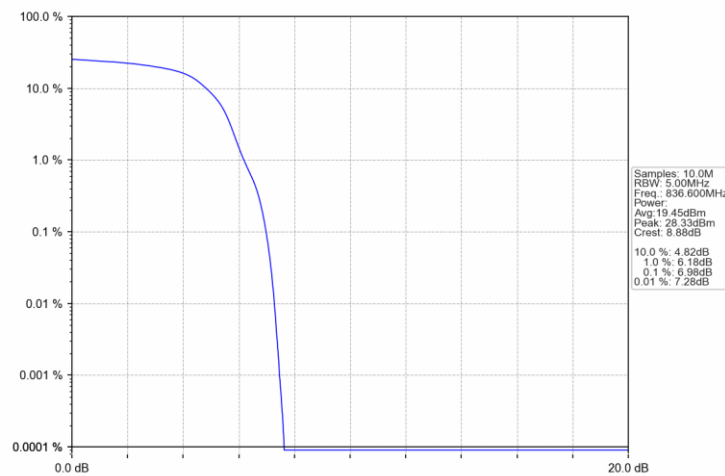




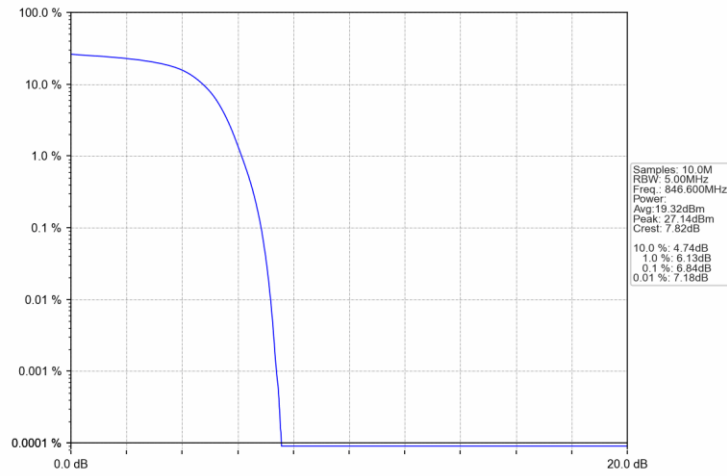
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



6. Spurious Emission

6.1 Test Result

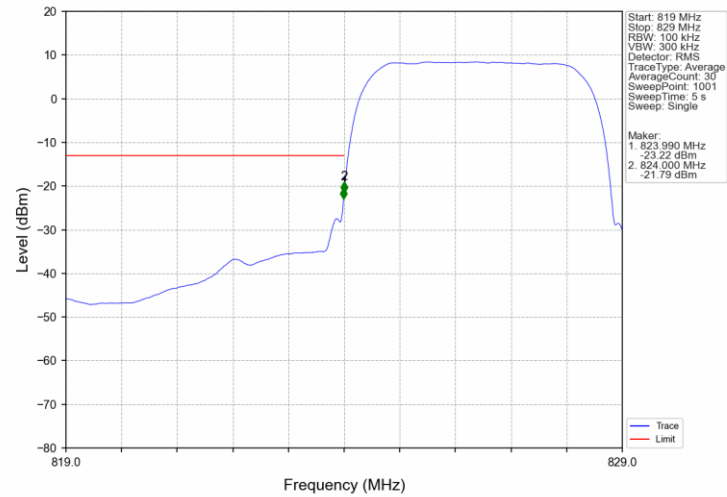
6.1.1 Band5

Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	

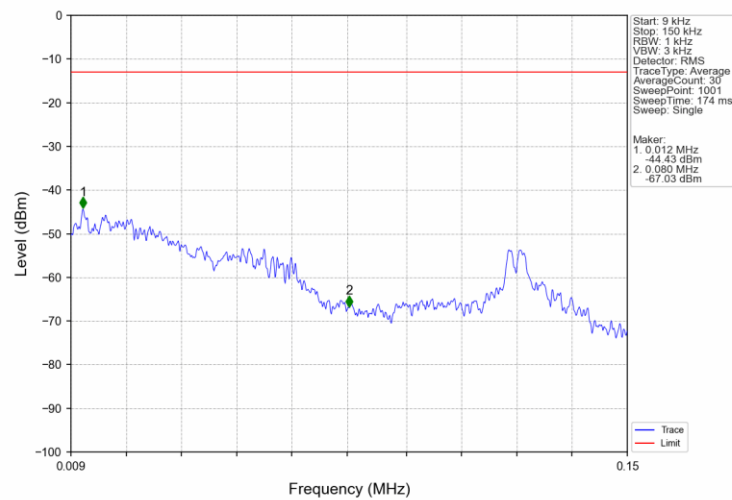
6.2 Test Graph

6.2.1 Band5

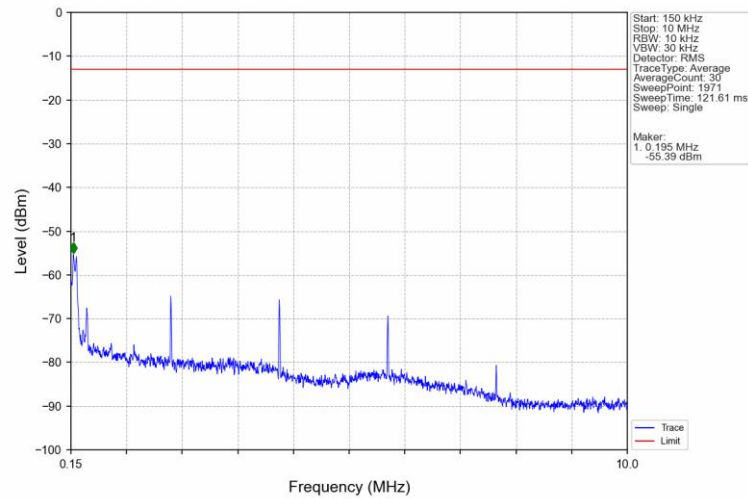
Band5_RMC_LCH_826.4MHz_12.2kbps_RMC_NTNV



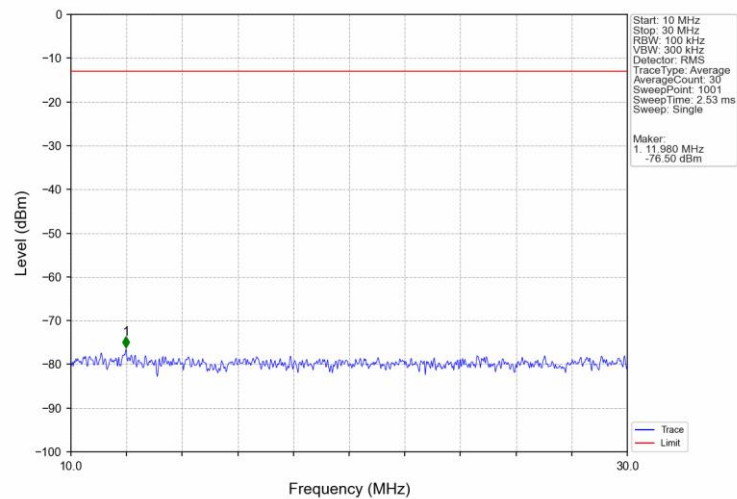
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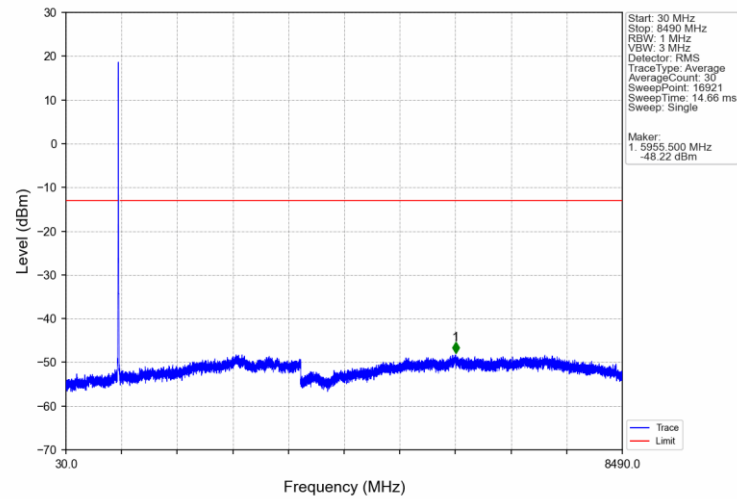
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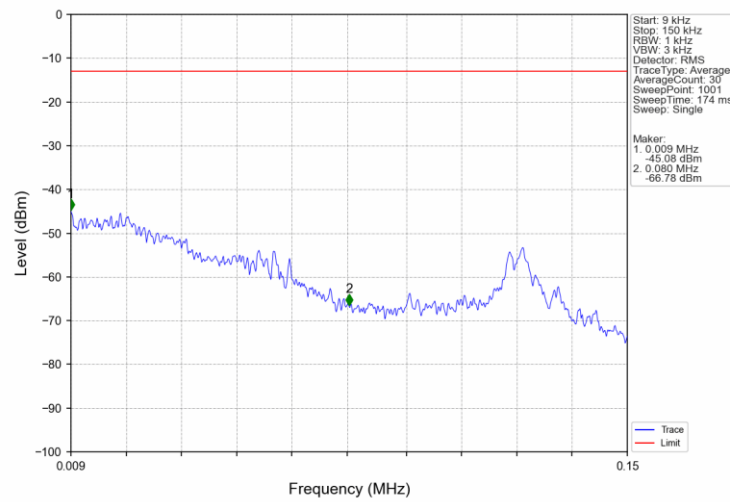
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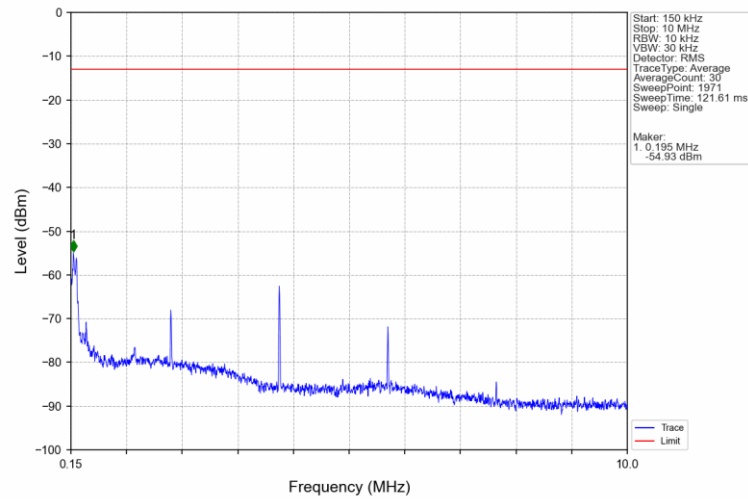
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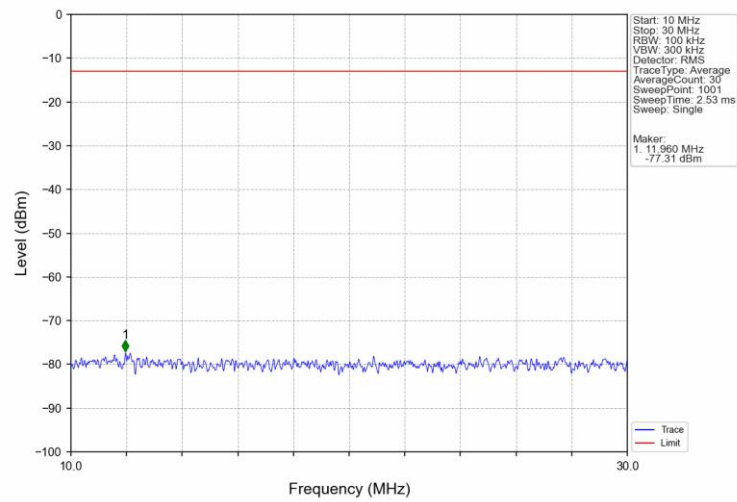
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



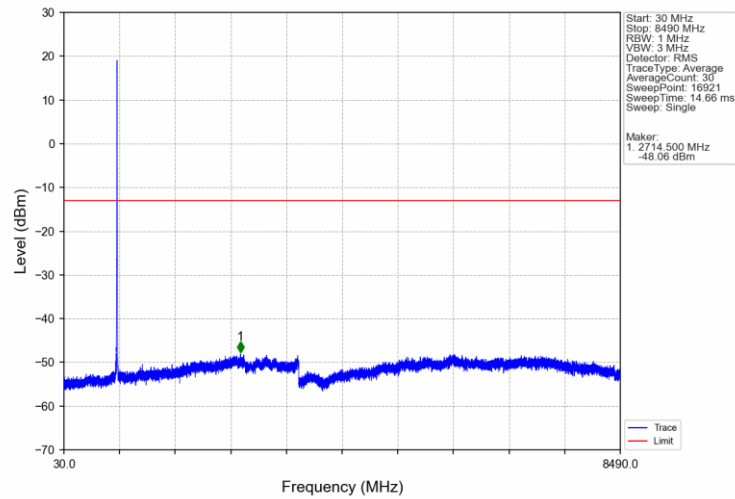
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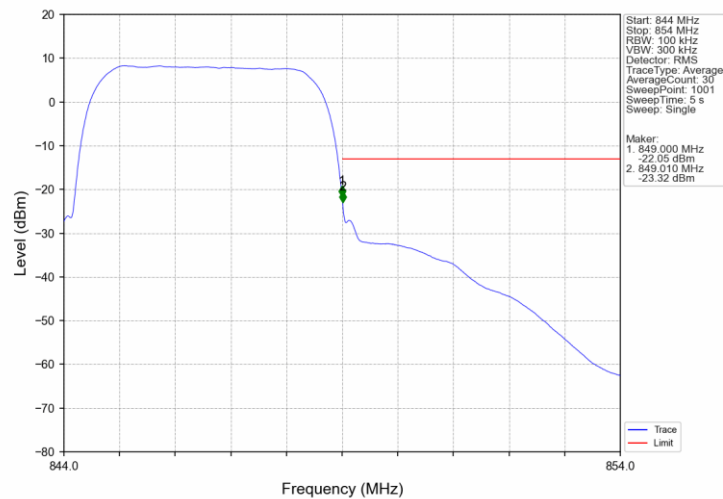
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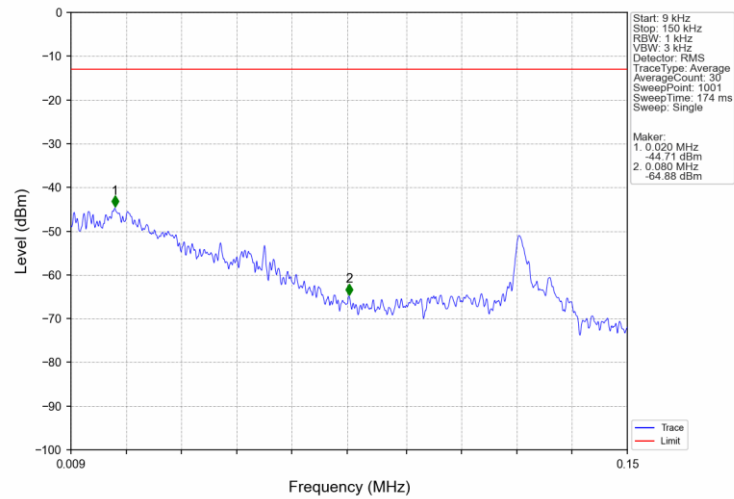
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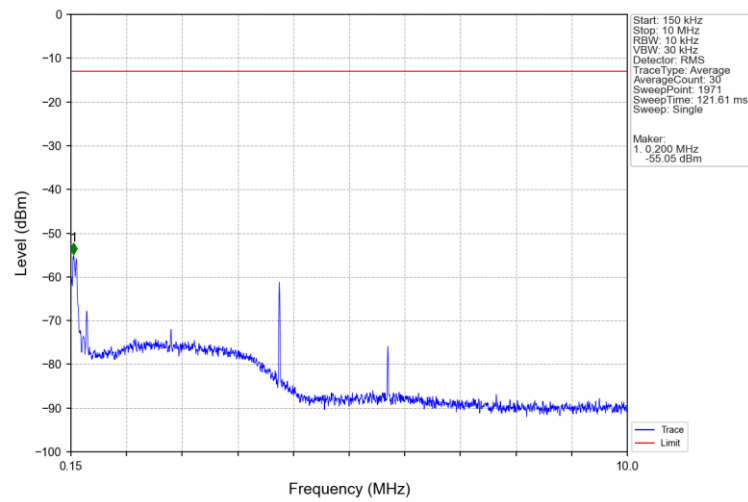
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



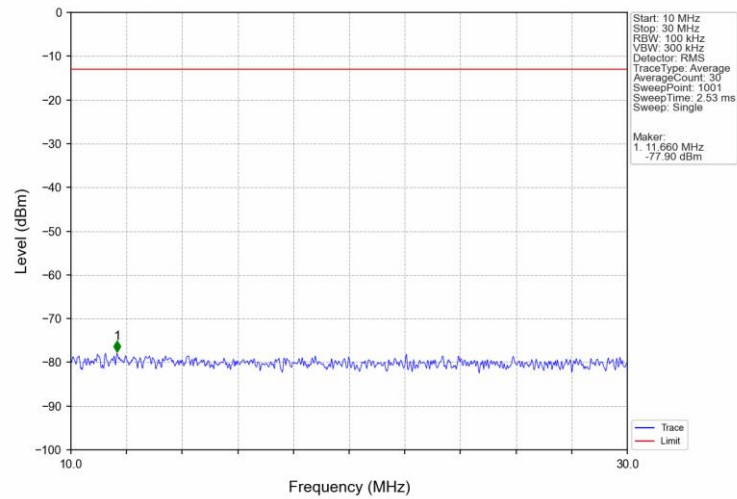
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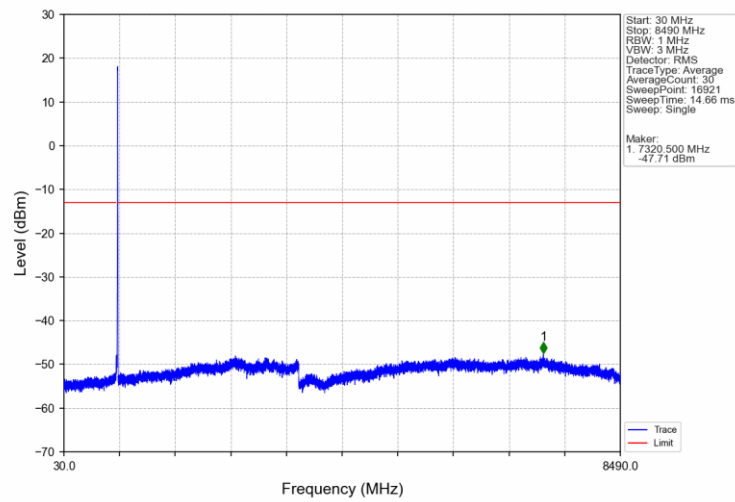
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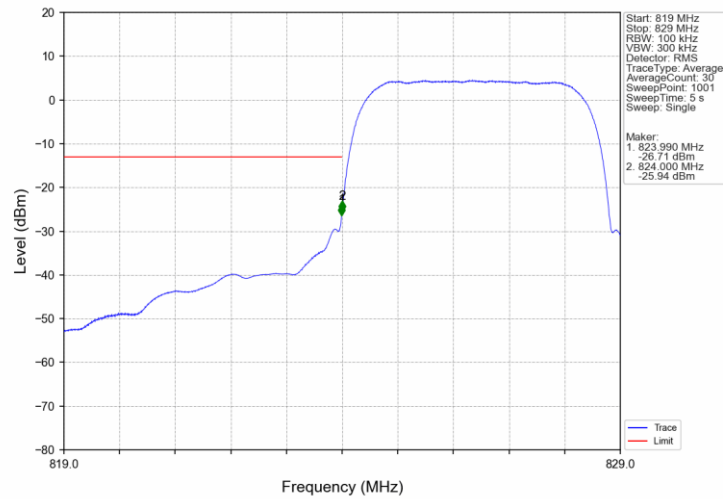
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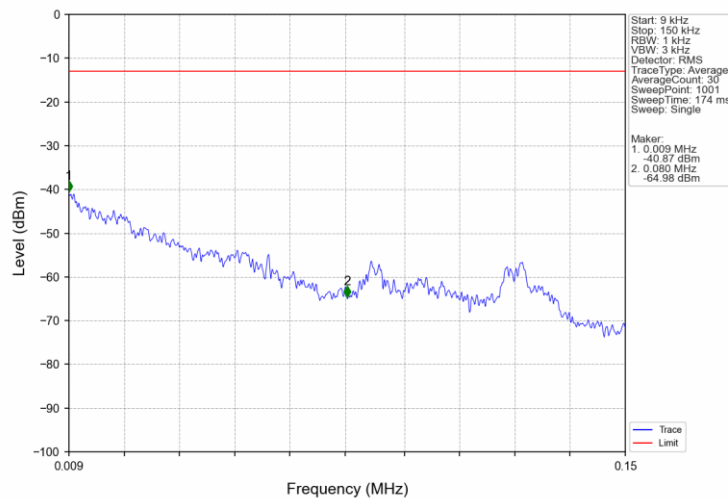
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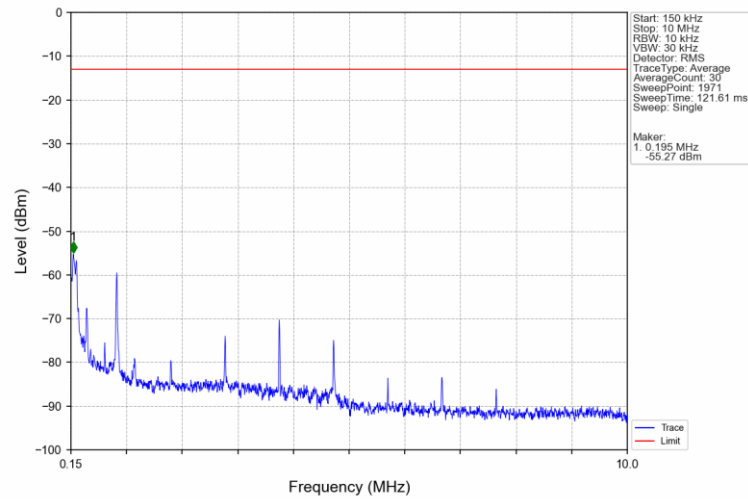
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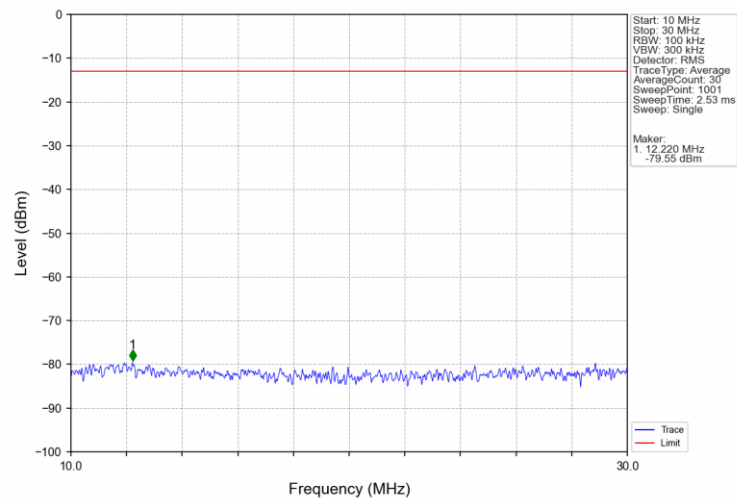
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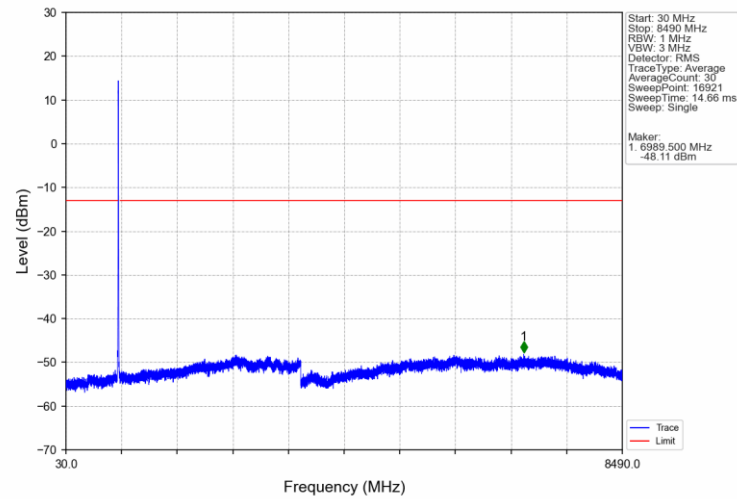
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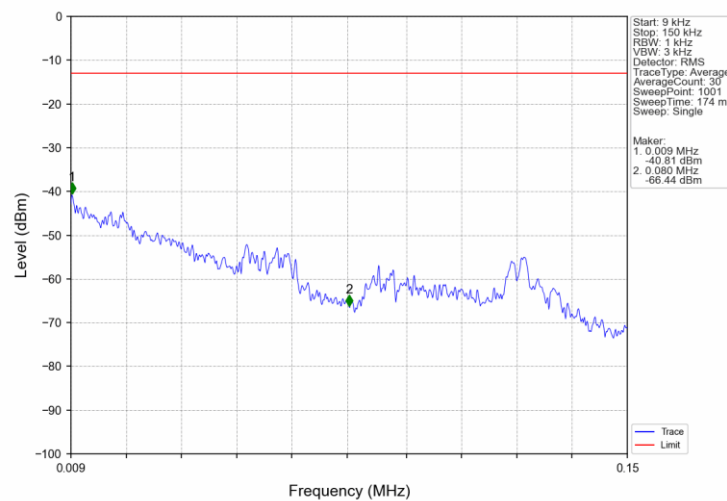
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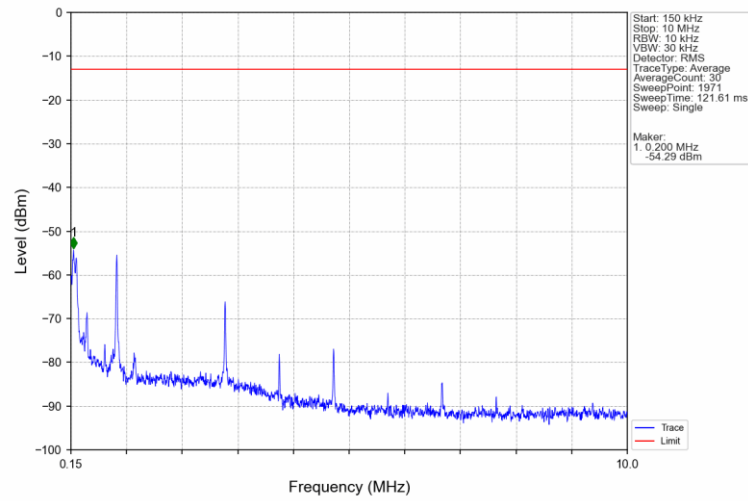
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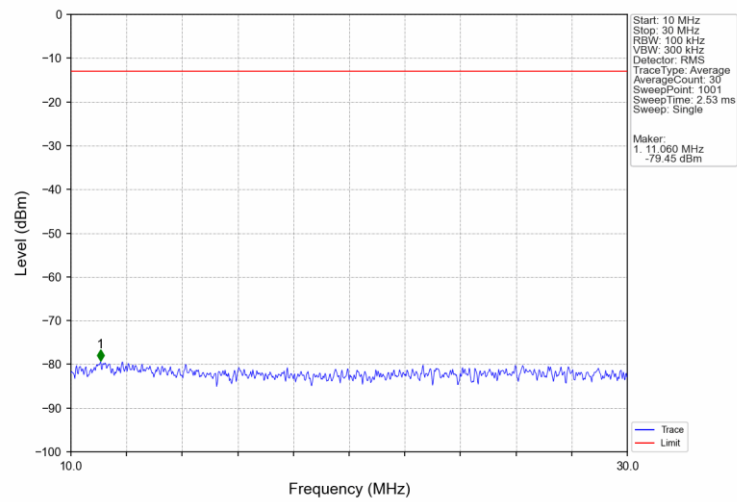
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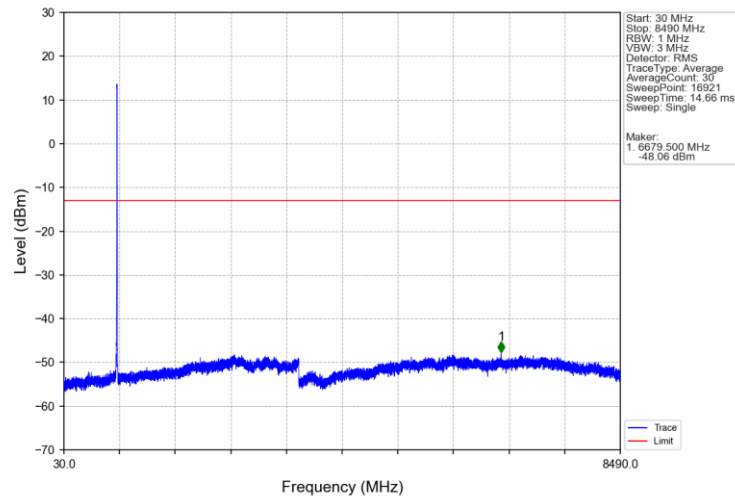
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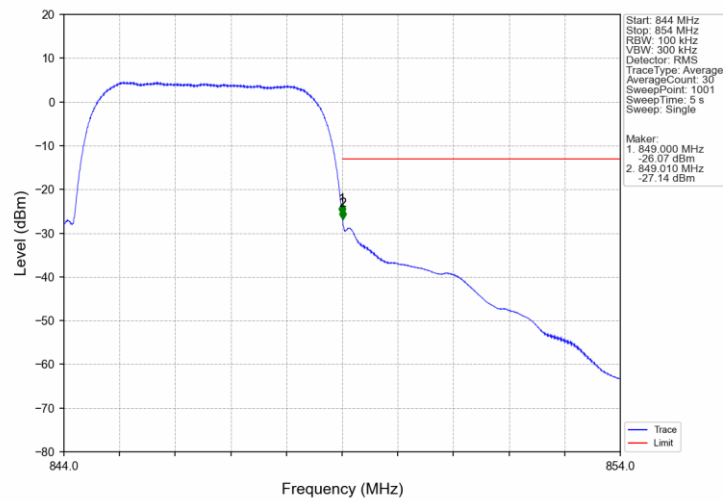
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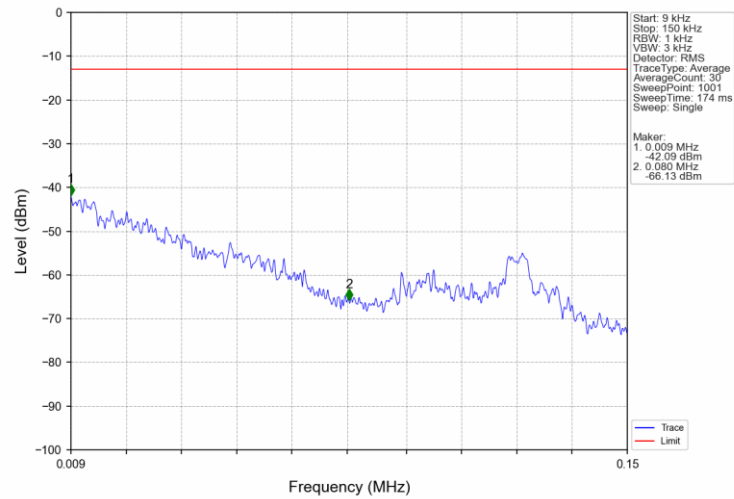
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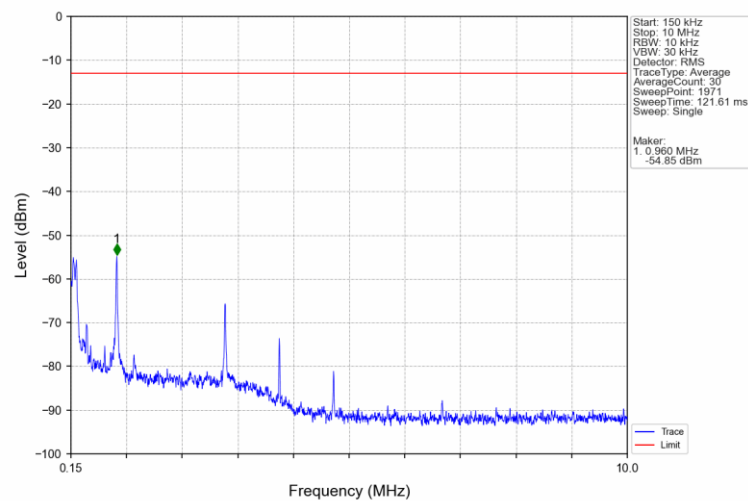
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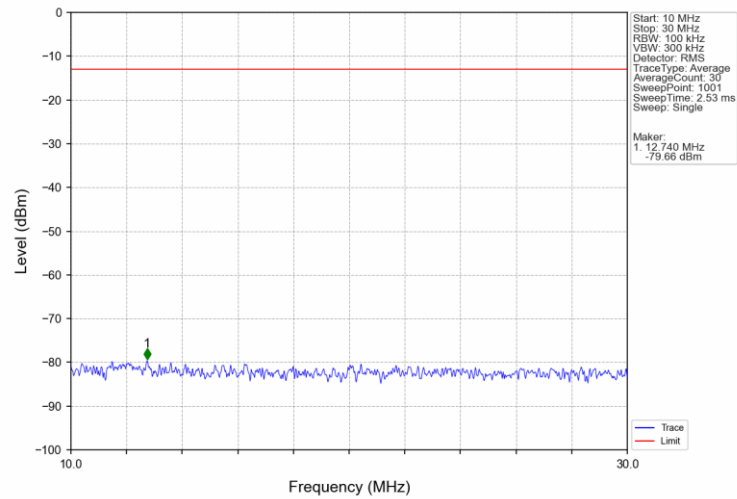
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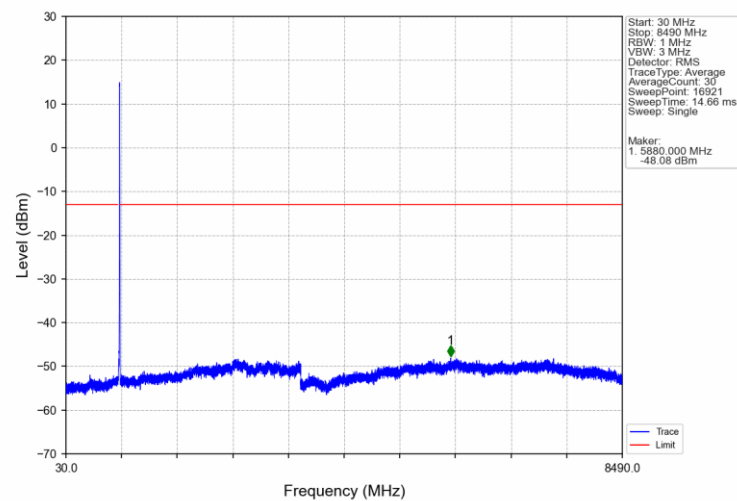
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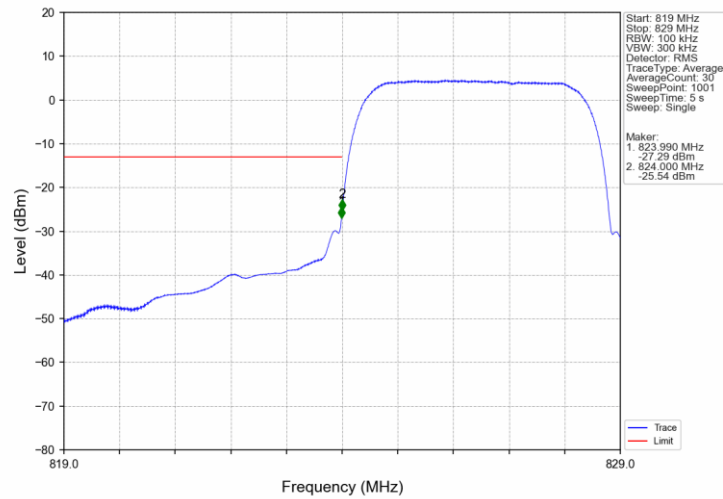
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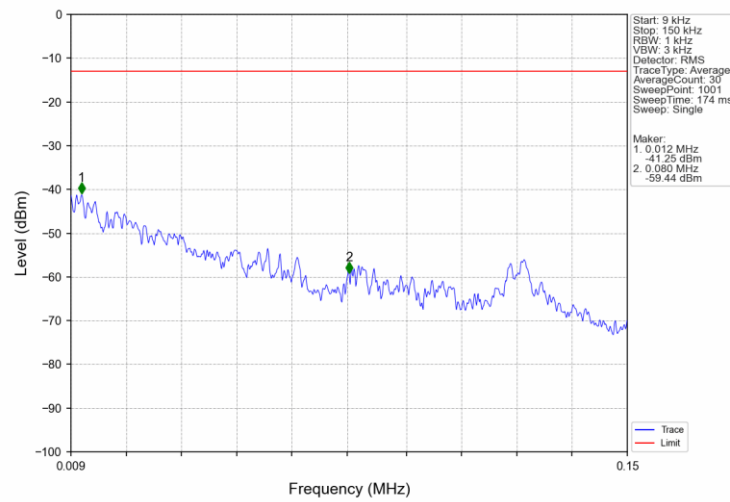
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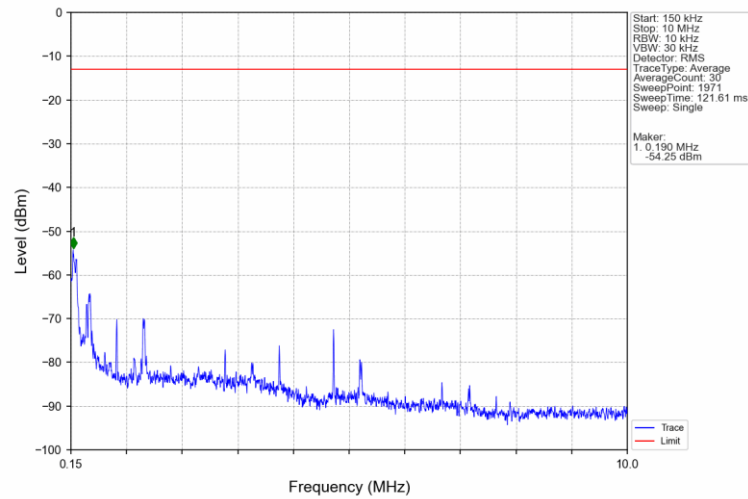
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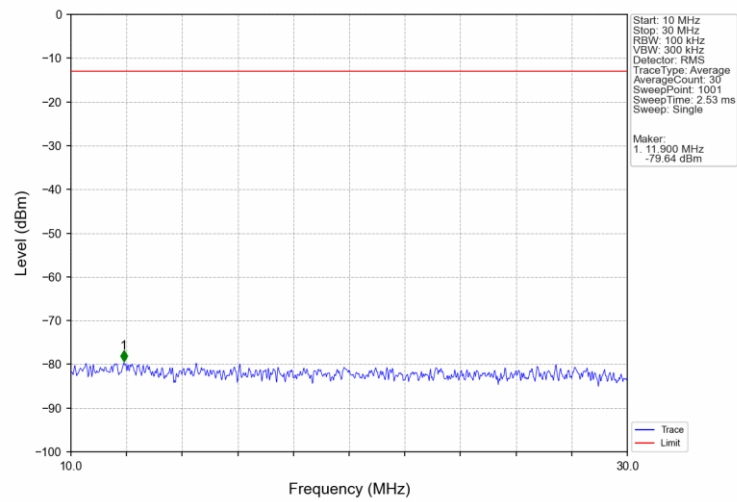
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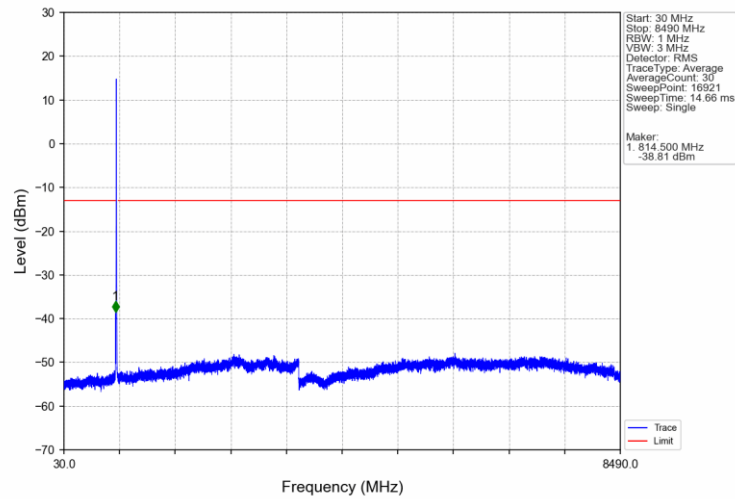
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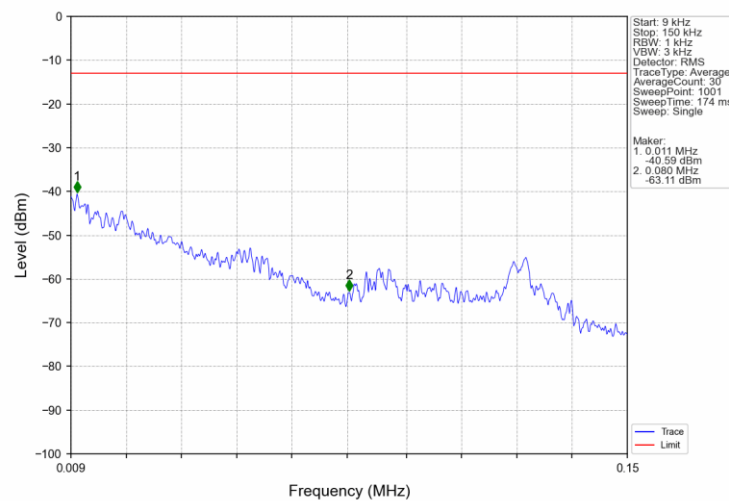
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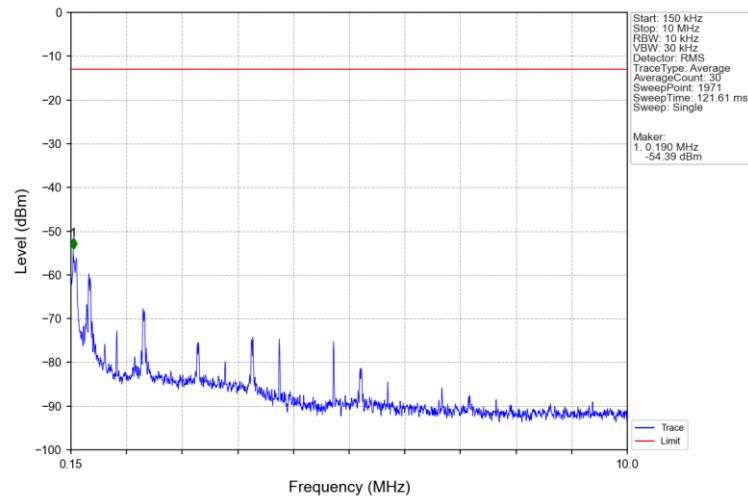
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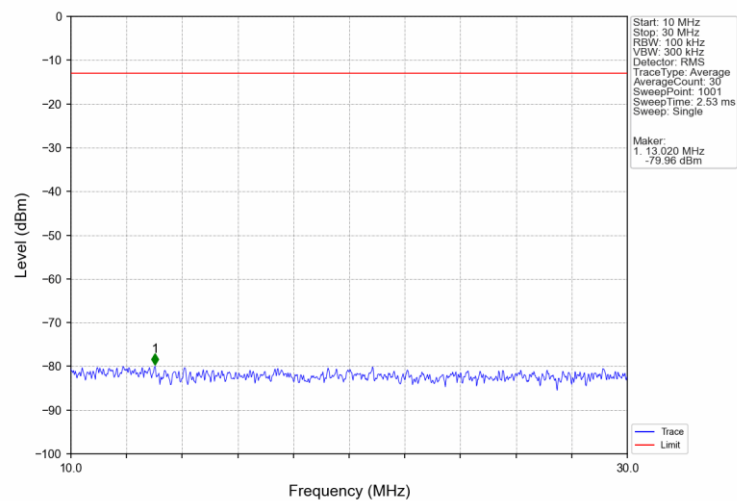
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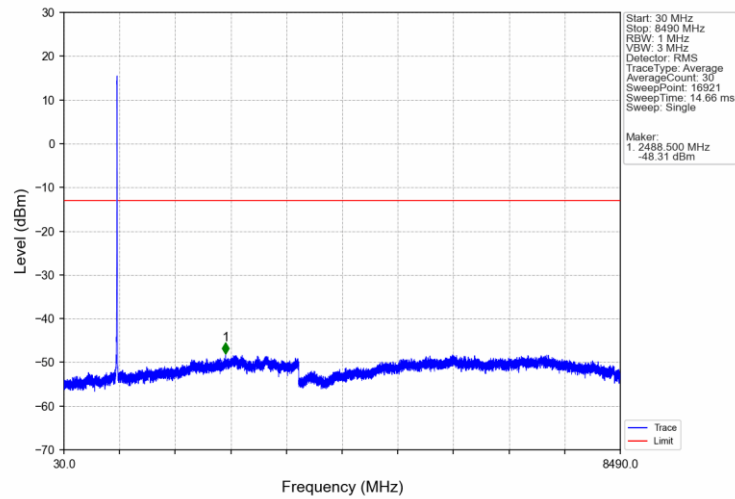
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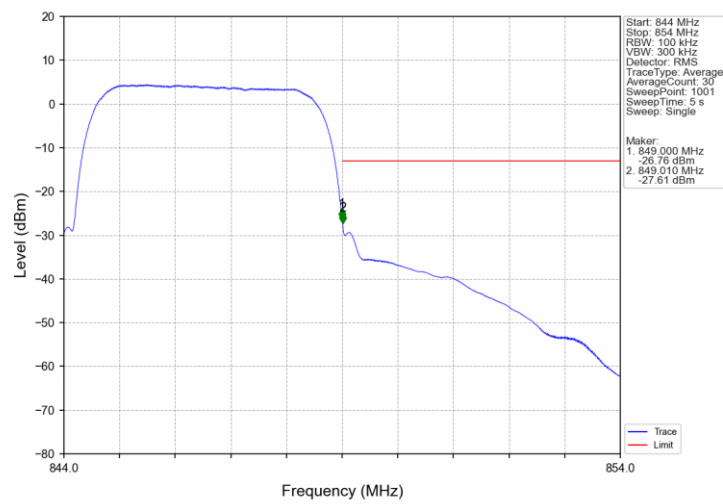
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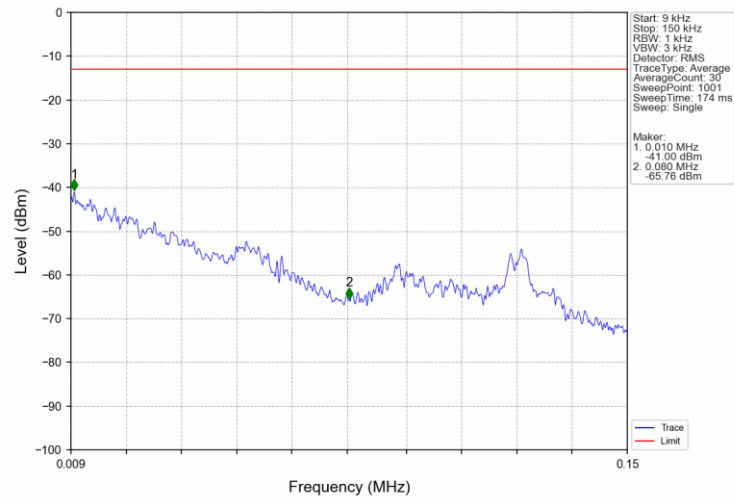
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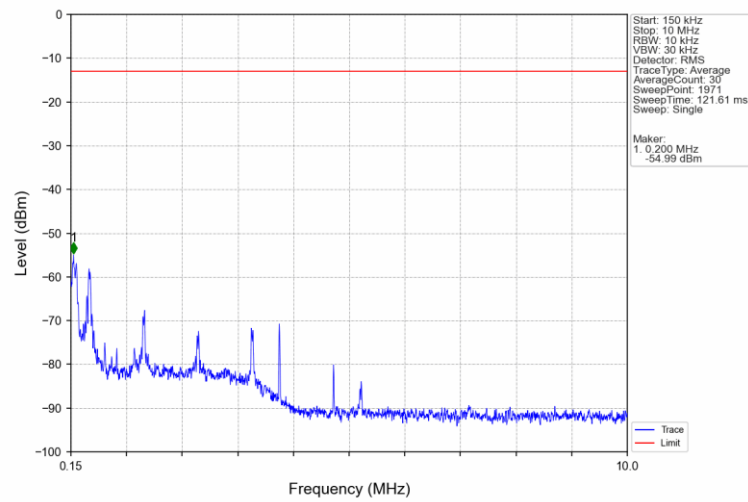
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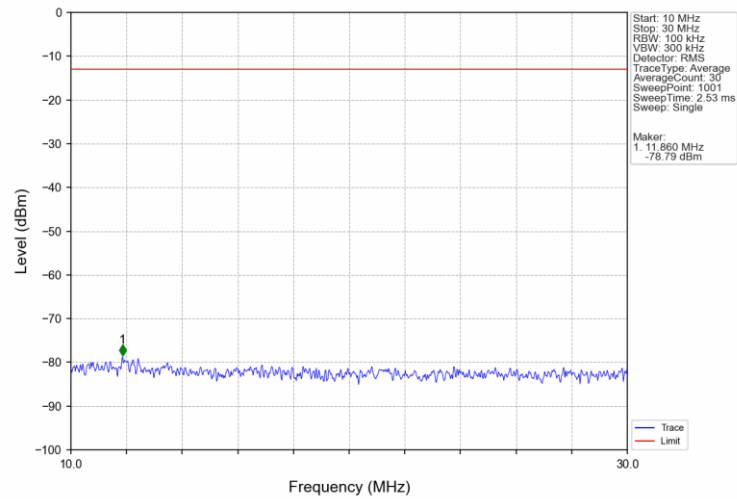
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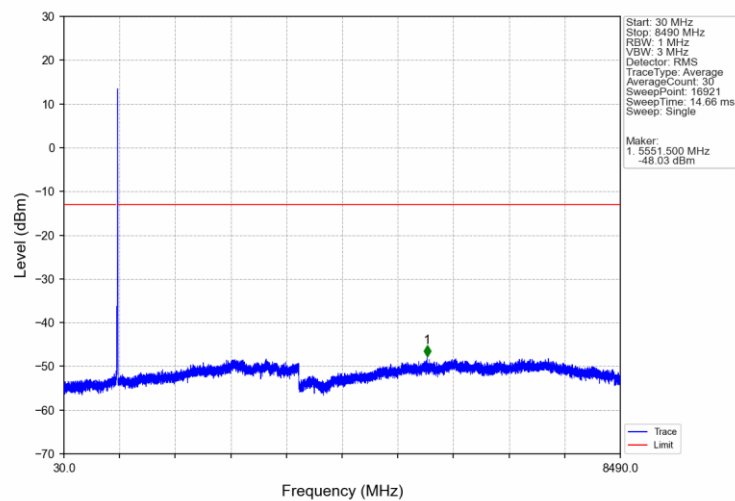
Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



7. Max Power

7.1 Test Result

7.1.1 Max Power_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.2529	0.0070	ppm	4M18F9W	22H	24.03

7.1.2 Max Power_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.1811	0.0070	ppm	4M18F9W	22H	22.58

***** End of Report *****