

Appendix Test Data for WCDMA_band_2

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band1_EIRP

Band: 1								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1922.4	23.33	0.92	24.25	/	Pass
			1950	23.33	0.92	24.25	/	Pass
			1977.6	23.54	0.92	24.46	/	Pass
	HSDPA	Subtest 1	1922.4	21.34	0.92	22.26	/	Pass
		Subtest 2	1922.4	21.37	0.92	22.29	/	Pass
		Subtest 3	1922.4	21.35	0.92	22.27	/	Pass
		Subtest 4	1922.4	21.36	0.92	22.28	/	Pass
		Subtest 1	1950	21.45	0.92	22.37	/	Pass
		Subtest 2	1950	21.42	0.92	22.34	/	Pass
		Subtest 3	1950	21.43	0.92	22.35	/	Pass
		Subtest 4	1950	21.45	0.92	22.37	/	Pass
		Subtest 1	1977.6	21.41	0.92	22.33	/	Pass
		Subtest 2	1977.6	21.41	0.92	22.33	/	Pass
		Subtest 3	1977.6	21.41	0.92	22.33	/	Pass
		Subtest 4	1977.6	21.41	0.92	22.33	/	Pass
	HSUPA	Subtest 1	1922.4	18.89	0.92	19.81	/	Pass
		Subtest 2	1922.4	18.88	0.92	19.80	/	Pass
		Subtest 3	1922.4	18.51	0.92	19.43	/	Pass
		Subtest 4	1922.4	18.57	0.92	19.49	/	Pass
		Subtest 5	1922.4	19.61	0.92	20.53	/	Pass
		Subtest 1	1950	18.92	0.92	19.84	/	Pass
		Subtest 2	1950	18.40	0.92	19.32	/	Pass
		Subtest 3	1950	18.61	0.92	19.53	/	Pass
		Subtest 4	1950	18.42	0.92	19.34	/	Pass
		Subtest 5	1950	18.74	0.92	19.66	/	Pass
		Subtest 1	1977.6	18.76	0.92	19.68	/	Pass
		Subtest 2	1977.6	18.55	0.92	19.47	/	Pass
		Subtest 3	1977.6	19.08	0.92	20.00	/	Pass
		Subtest 4	1977.6	19.05	0.92	19.97	/	Pass
		Subtest 5	1977.6	18.90	0.92	19.82	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band1

Band: 1							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1922.4	20	3.23	4.406	0.0023	-2.5 to 2.5	Pass
			3.80	1.130	0.0006	-2.5 to 2.5	Pass
			4.37	3.669	0.0019	-2.5 to 2.5	Pass
		-30	3.80	-0.665	-0.0003	-2.5 to 2.5	Pass
		-20	3.80	1.159	0.0006	-2.5 to 2.5	Pass
		-10	3.80	0.401	0.0002	-2.5 to 2.5	Pass
		0	3.80	1.137	0.0006	-2.5 to 2.5	Pass
		10	3.80	1.209	0.0006	-2.5 to 2.5	Pass
		30	3.80	0.916	0.0005	-2.5 to 2.5	Pass
		40	3.80	0.322	0.0002	-2.5 to 2.5	Pass
		50	3.80	1.888	0.0010	-2.5 to 2.5	Pass
	1950	20	3.23	-2.346	-0.0012	-2.5 to 2.5	Pass
			3.80	-5.429	-0.0028	-2.5 to 2.5	Pass
			4.37	-6.795	-0.0035	-2.5 to 2.5	Pass
		-30	3.80	-7.153	-0.0037	-2.5 to 2.5	Pass
		-20	3.80	-4.084	-0.0021	-2.5 to 2.5	Pass
		-10	3.80	-6.230	-0.0032	-2.5 to 2.5	Pass
		0	3.80	-5.615	-0.0029	-2.5 to 2.5	Pass
		10	3.80	-3.419	-0.0018	-2.5 to 2.5	Pass
		30	3.80	-5.994	-0.0031	-2.5 to 2.5	Pass
		40	3.80	-6.180	-0.0032	-2.5 to 2.5	Pass
		50	3.80	-2.918	-0.0015	-2.5 to 2.5	Pass
	1977.6	20	3.23	-6.638	-0.0034	-2.5 to 2.5	Pass
			3.80	-5.200	-0.0026	-2.5 to 2.5	Pass
			4.37	-5.193	-0.0026	-2.5 to 2.5	Pass
		-30	3.80	-2.997	-0.0015	-2.5 to 2.5	Pass
		-20	3.80	-2.310	-0.0012	-2.5 to 2.5	Pass
		-10	3.80	-3.269	-0.0017	-2.5 to 2.5	Pass
		0	3.80	-4.706	-0.0024	-2.5 to 2.5	Pass
		10	3.80	-2.604	-0.0013	-2.5 to 2.5	Pass
		30	3.80	-4.549	-0.0023	-2.5 to 2.5	Pass
		40	3.80	-0.722	-0.0004	-2.5 to 2.5	Pass
HSDPA	1922.4	20	3.23	-2.117	-0.0011	-2.5 to 2.5	Pass
			3.80	-0.601	-0.0003	-2.5 to 2.5	Pass
			4.37	-0.787	-0.0004	-2.5 to 2.5	Pass
		-30	3.80	1.388	0.0007	-2.5 to 2.5	Pass
		-20	3.80	2.596	0.0014	-2.5 to 2.5	Pass
		-10	3.80	1.853	0.0010	-2.5 to 2.5	Pass
		0	3.80	0.622	0.0003	-2.5 to 2.5	Pass
		10	3.80	0.036	0.0000	-2.5 to 2.5	Pass
		30	3.80	-0.215	-0.0001	-2.5 to 2.5	Pass
		40	3.80	-1.709	-0.0009	-2.5 to 2.5	Pass
		50	3.80	-1.802	-0.0009	-2.5 to 2.5	Pass
	1950	20	3.23	-1.602	-0.0008	-2.5 to 2.5	Pass
			3.80	-5.686	-0.0029	-2.5 to 2.5	Pass
			4.37	-7.875	-0.0040	-2.5 to 2.5	Pass
		-30	3.80	-2.897	-0.0015	-2.5 to 2.5	Pass
		-20	3.80	-6.087	-0.0031	-2.5 to 2.5	Pass
		-10	3.80	-7.474	-0.0038	-2.5 to 2.5	Pass

		0	3.80	-6.137	-0.0031	-2.5 to 2.5	Pass
		10	3.80	-7.932	-0.0041	-2.5 to 2.5	Pass
		30	3.80	-6.816	-0.0035	-2.5 to 2.5	Pass
		40	3.80	-8.118	-0.0042	-2.5 to 2.5	Pass
		50	3.80	-7.932	-0.0041	-2.5 to 2.5	Pass
	1977.6	20	3.23	-2.997	-0.0015	-2.5 to 2.5	Pass
			3.80	-5.193	-0.0026	-2.5 to 2.5	Pass
			4.37	-5.400	-0.0027	-2.5 to 2.5	Pass
		-30	3.80	-1.545	-0.0008	-2.5 to 2.5	Pass
		-20	3.80	-5.178	-0.0026	-2.5 to 2.5	Pass
		-10	3.80	-7.961	-0.0040	-2.5 to 2.5	Pass
		0	3.80	-4.156	-0.0021	-2.5 to 2.5	Pass
		10	3.80	-6.323	-0.0032	-2.5 to 2.5	Pass
		30	3.80	-7.288	-0.0037	-2.5 to 2.5	Pass
		40	3.80	-3.169	-0.0016	-2.5 to 2.5	Pass
		50	3.80	-4.785	-0.0024	-2.5 to 2.5	Pass
HSUPA	1922.4	20	3.23	8.154	0.0042	-2.5 to 2.5	Pass
			3.80	8.333	0.0043	-2.5 to 2.5	Pass
			4.37	7.231	0.0038	-2.5 to 2.5	Pass
		-30	3.80	8.998	0.0047	-2.5 to 2.5	Pass
		-20	3.80	5.708	0.0030	-2.5 to 2.5	Pass
		-10	3.80	5.972	0.0031	-2.5 to 2.5	Pass
		0	3.80	5.386	0.0028	-2.5 to 2.5	Pass
		10	3.80	6.723	0.0035	-2.5 to 2.5	Pass
		30	3.80	6.094	0.0032	-2.5 to 2.5	Pass
		40	3.80	9.491	0.0049	-2.5 to 2.5	Pass
		50	3.80	8.776	0.0046	-2.5 to 2.5	Pass
	1950	20	3.23	-1.202	-0.0006	-2.5 to 2.5	Pass
			3.80	0.172	0.0001	-2.5 to 2.5	Pass
			4.37	1.709	0.0009	-2.5 to 2.5	Pass
		-30	3.80	-0.679	-0.0003	-2.5 to 2.5	Pass
		-20	3.80	-2.003	-0.0010	-2.5 to 2.5	Pass
		-10	3.80	-2.646	-0.0014	-2.5 to 2.5	Pass
		0	3.80	-2.310	-0.0012	-2.5 to 2.5	Pass
		10	3.80	0.830	0.0004	-2.5 to 2.5	Pass
		30	3.80	-4.992	-0.0026	-2.5 to 2.5	Pass
		40	3.80	0.658	0.0003	-2.5 to 2.5	Pass
		50	3.80	-1.688	-0.0009	-2.5 to 2.5	Pass
	1977.6	20	3.23	1.173	0.0006	-2.5 to 2.5	Pass
			3.80	1.874	0.0009	-2.5 to 2.5	Pass
			4.37	-0.966	-0.0005	-2.5 to 2.5	Pass
		-30	3.80	0.544	0.0003	-2.5 to 2.5	Pass
		-20	3.80	0.315	0.0002	-2.5 to 2.5	Pass
		-10	3.80	-0.744	-0.0004	-2.5 to 2.5	Pass
		0	3.80	0.086	0.0000	-2.5 to 2.5	Pass
		10	3.80	-0.157	-0.0001	-2.5 to 2.5	Pass
		30	3.80	1.667	0.0008	-2.5 to 2.5	Pass
		40	3.80	-3.455	-0.0017	-2.5 to 2.5	Pass
		50	3.80	-0.393	-0.0002	-2.5 to 2.5	Pass

3. Modulation Characteristics

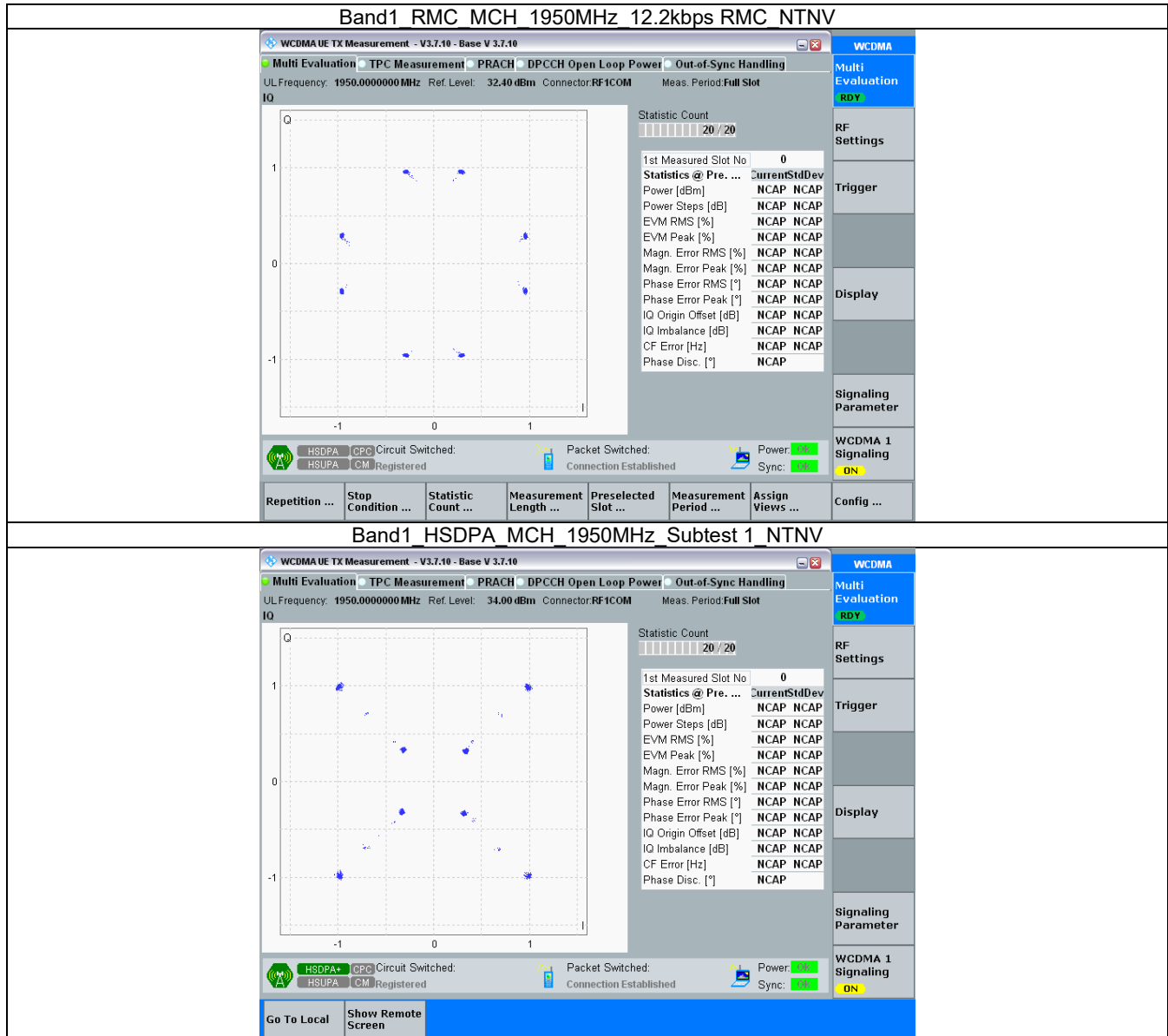
3.1 Test Result

3.1.1 Band1

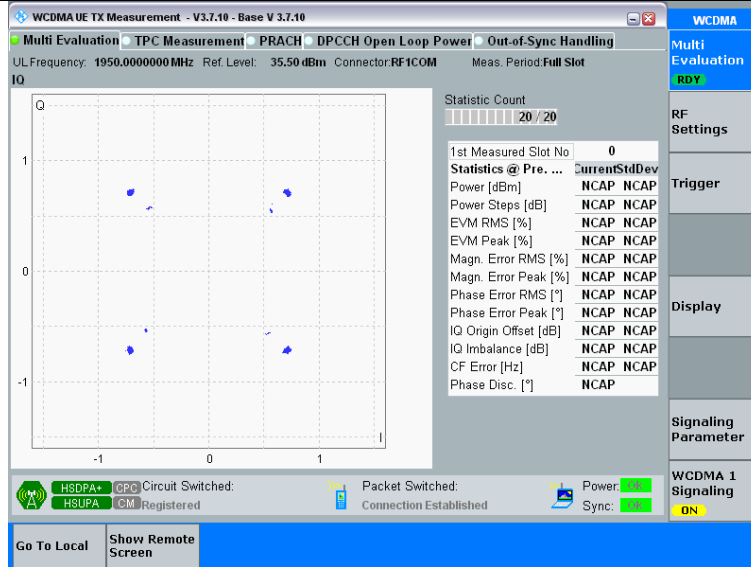
Band: 1						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1950	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1950	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1950	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 Band1



Band1 HSUPA MCH 1950MHz Subtest 1 NTN



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band1_OBW

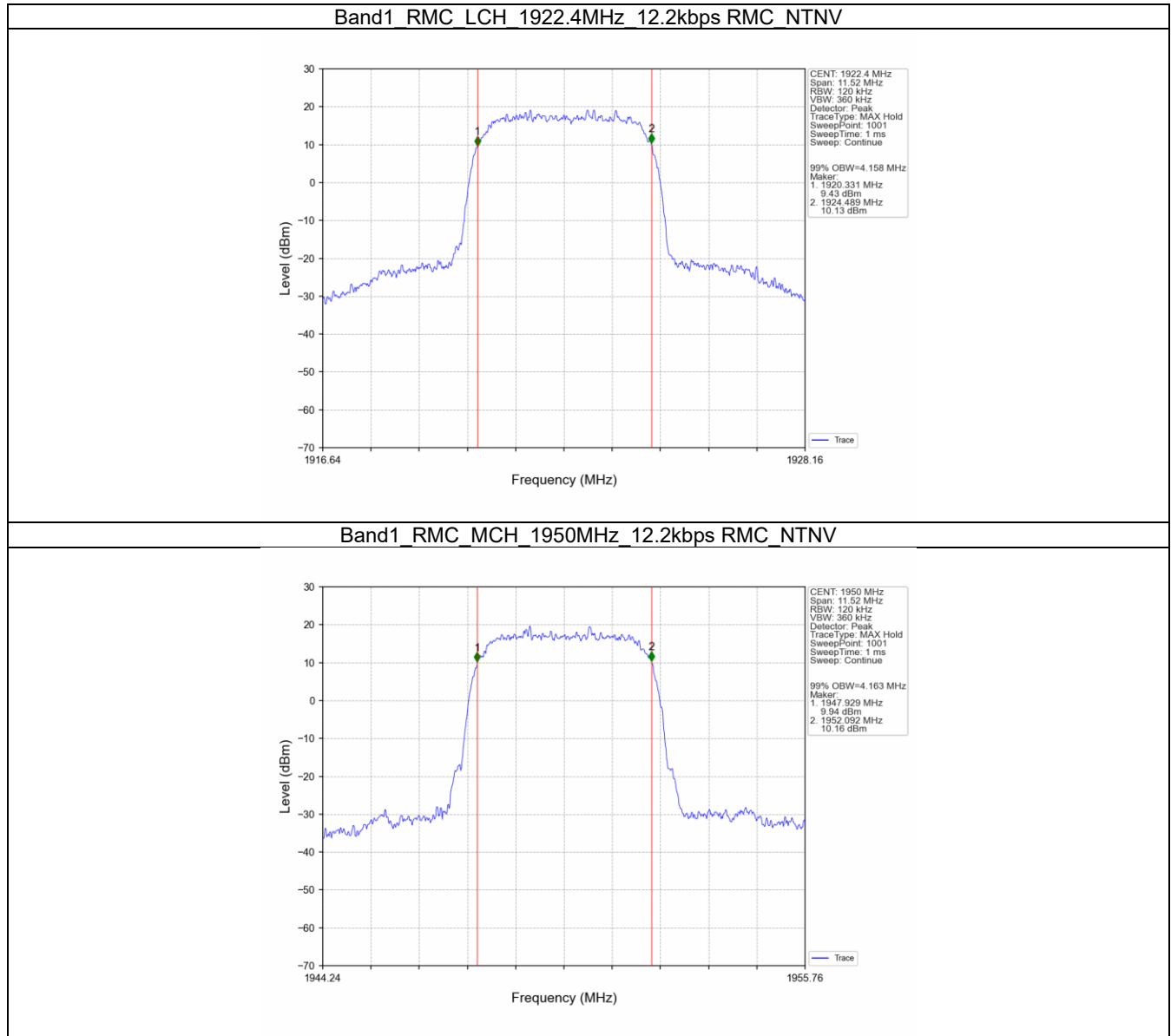
Band: 1						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1922.4	4.158	/	Pass
			1950	4.163	/	Pass
			1977.6	4.147	/	Pass
	HSDPA	Subtest 1	1922.4	4.175	/	Pass
			1950	4.156	/	Pass
			1977.6	4.145	/	Pass
	HSUPA	Subtest 1	1922.4	4.182	/	Pass
			1950	4.159	/	Pass
			1977.6	4.174	/	Pass

4.1.2 Band1_XDB

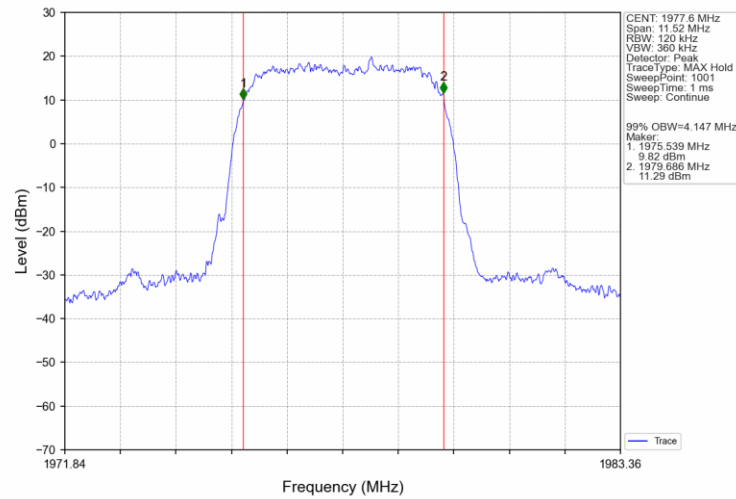
Band: 1						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1922.4	4.740	/	Pass
			1950	4.723	/	Pass
			1977.6	4.704	/	Pass
	HSDPA	Subtest 1	1922.4	4.835	/	Pass
			1950	4.729	/	Pass
			1977.6	4.734	/	Pass
	HSUPA	Subtest 1	1922.4	5.034	/	Pass
			1950	4.731	/	Pass
			1977.6	4.750	/	Pass

4.2 Test Graph

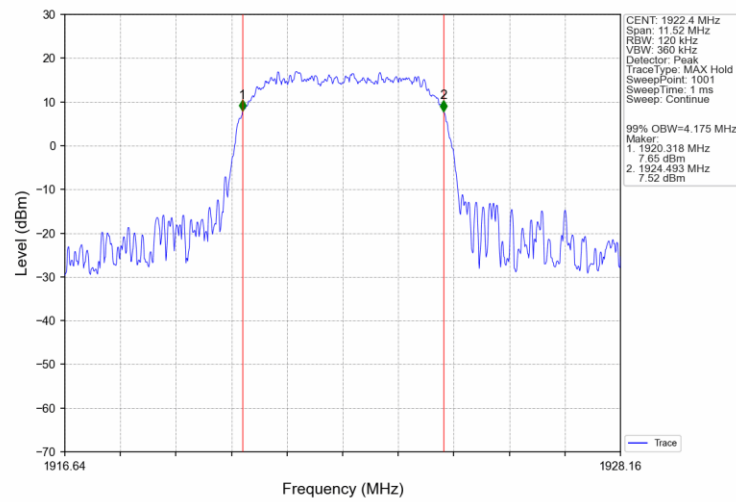
4.2.1 Band1_OBW



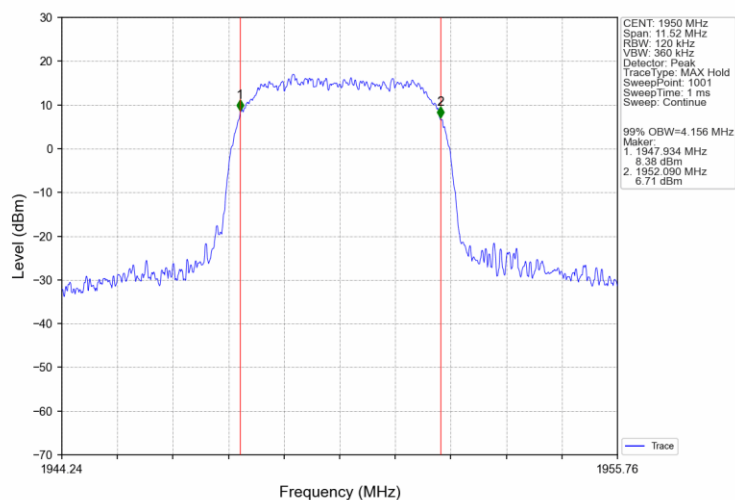
Band1_RMC_HCH_1977.6MHz_12.2kbps_RMC_NTNV



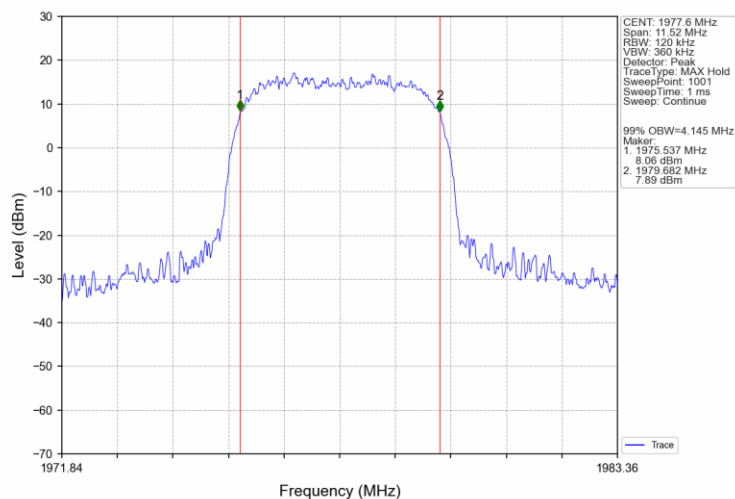
Band1_HSDPA_LCH_1922.4MHz_Subtest 1_NTNV



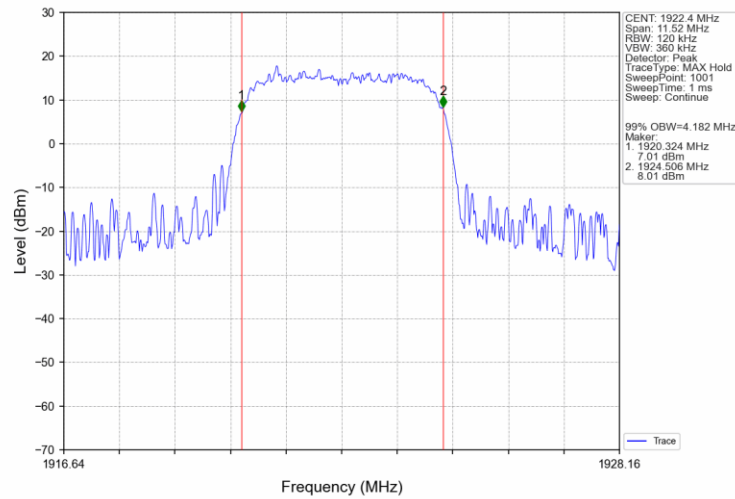
Band1_HSDPA_MCH_1950MHz_Subtest 1_NTNV



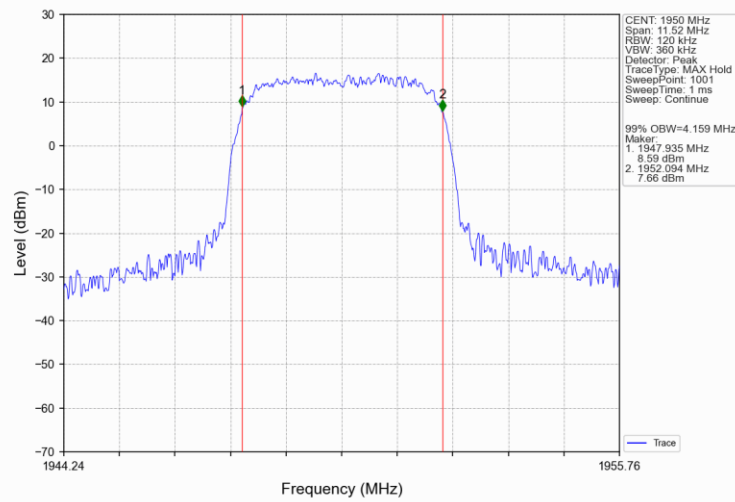
Band1_HSDPA_HCH_1977.6MHz_Subtest 1_NTNV



Band1_HSUPA_LCH_1922.4MHz_Subtest 1_NTNV

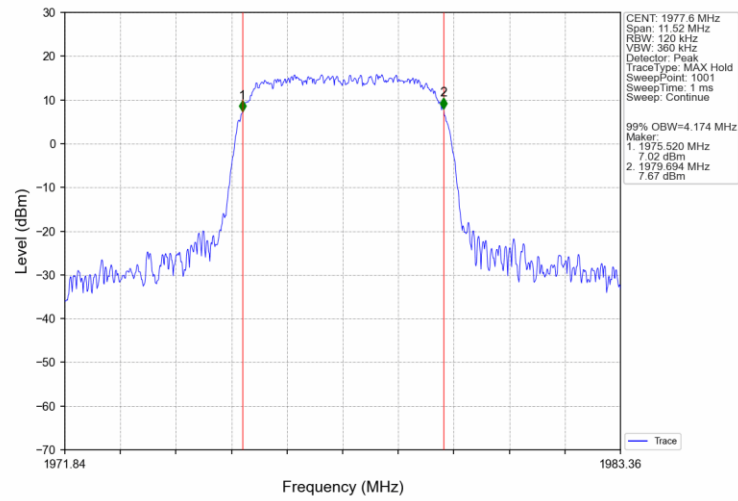


Band1_HSUPA_MCH_1950MHz_Subtest 1_NTNV



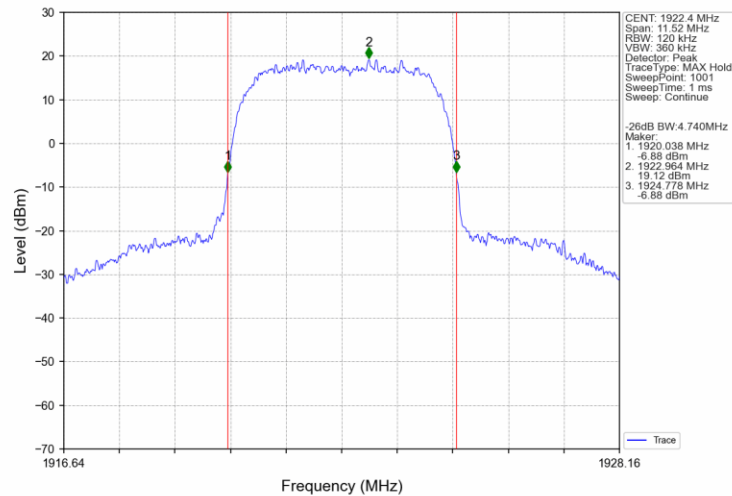


Band1 HSUPA HCH 1977.6MHz Subtest 1 NTV

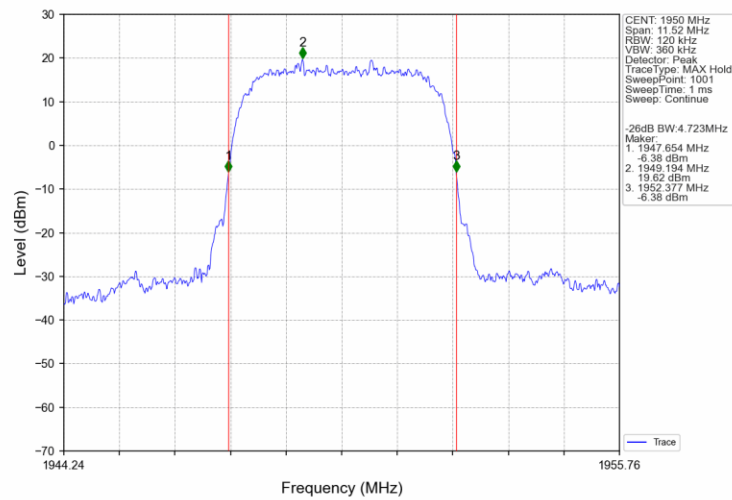


4.2.2 Band1_XDB

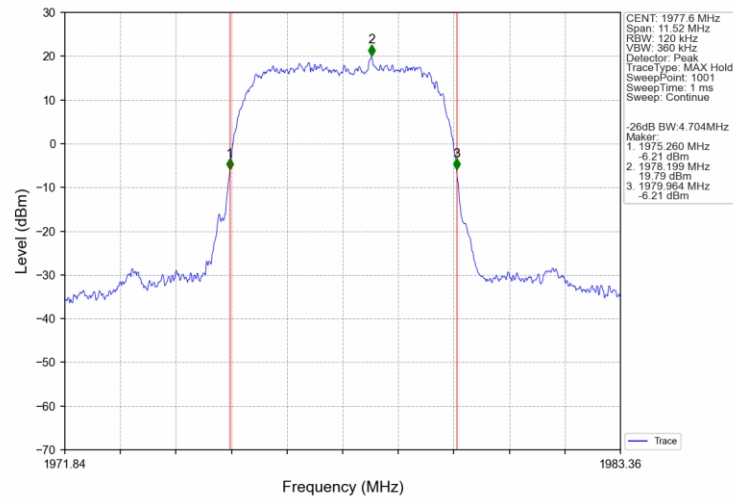
Band1_RMC_LCH_1922.4MHz_12.2kbps_RMC_NTNV



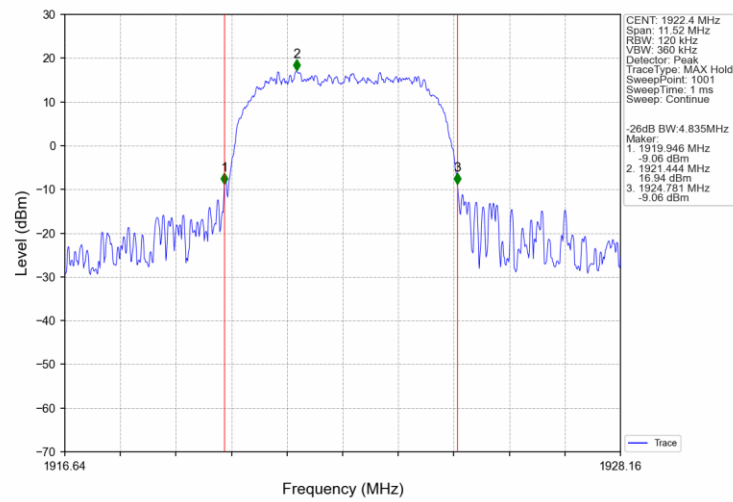
Band1_RMC_MCH_1950MHz_12.2kbps_RMC_NTNV



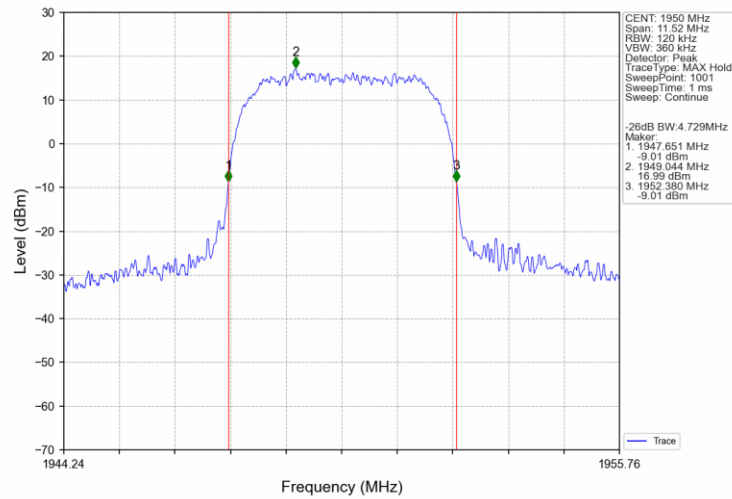
Band1_RMC_HCH_1977.6MHz_12.2kbps_RMC_NTNV



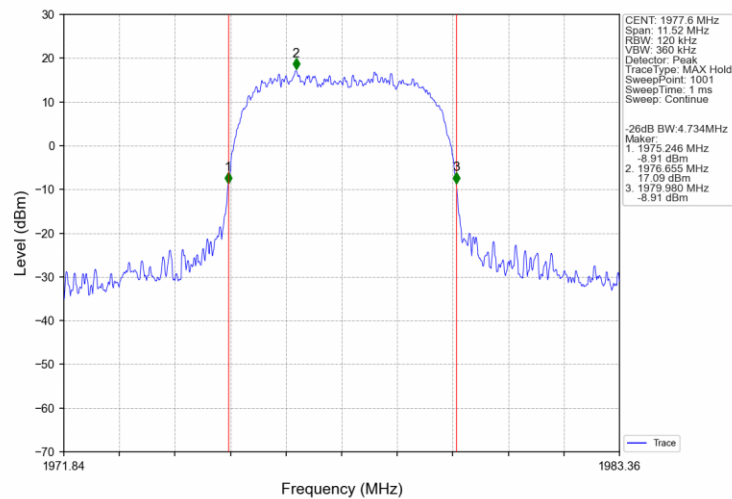
Band1_HSDPA_LCH_1922.4MHz_Subtest 1_NTNV



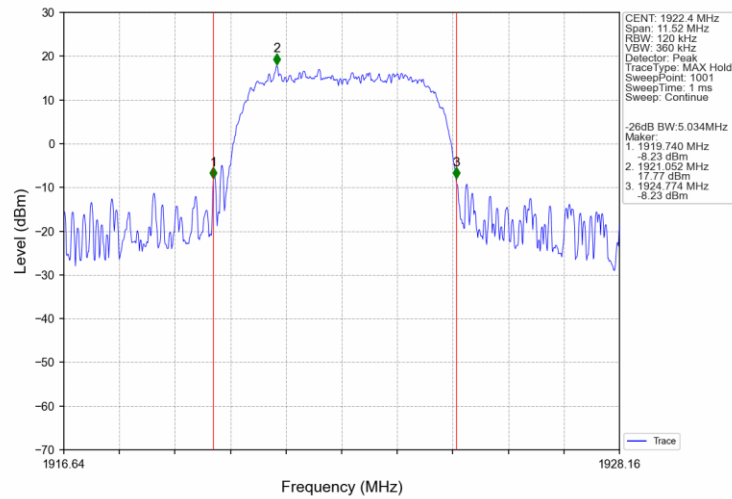
Band1_HSDPA_MCH_1950MHz_Subtest 1_NTNV



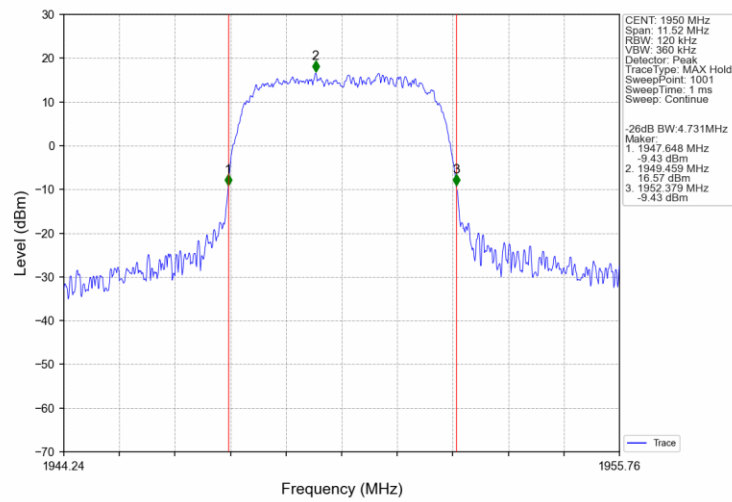
Band1_HSDPA_HCH_1977.6MHz_Subtest 1_NTNV



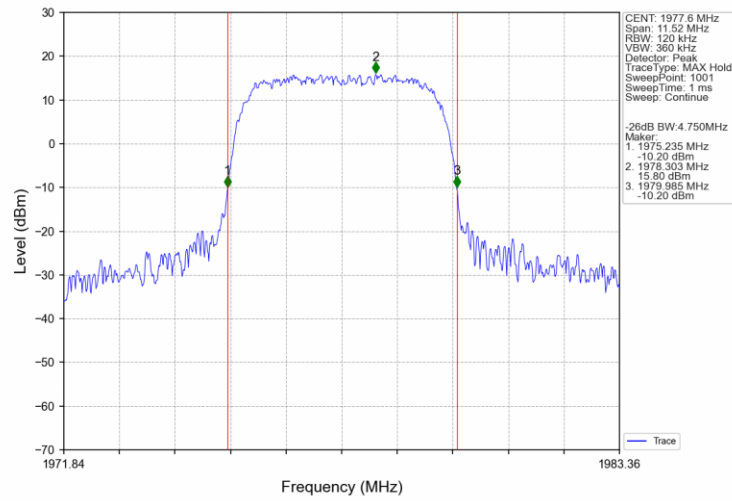
Band1_HSUPA_LCH_1922.4MHz_Subtest 1_NTNV



Band1_HSUPA_MCH_1950MHz_Subtest 1_NTNV



Band1 HSUPA HCH 1977.6MHz Subtest 1 NTV



5. Peak-Average Ratio

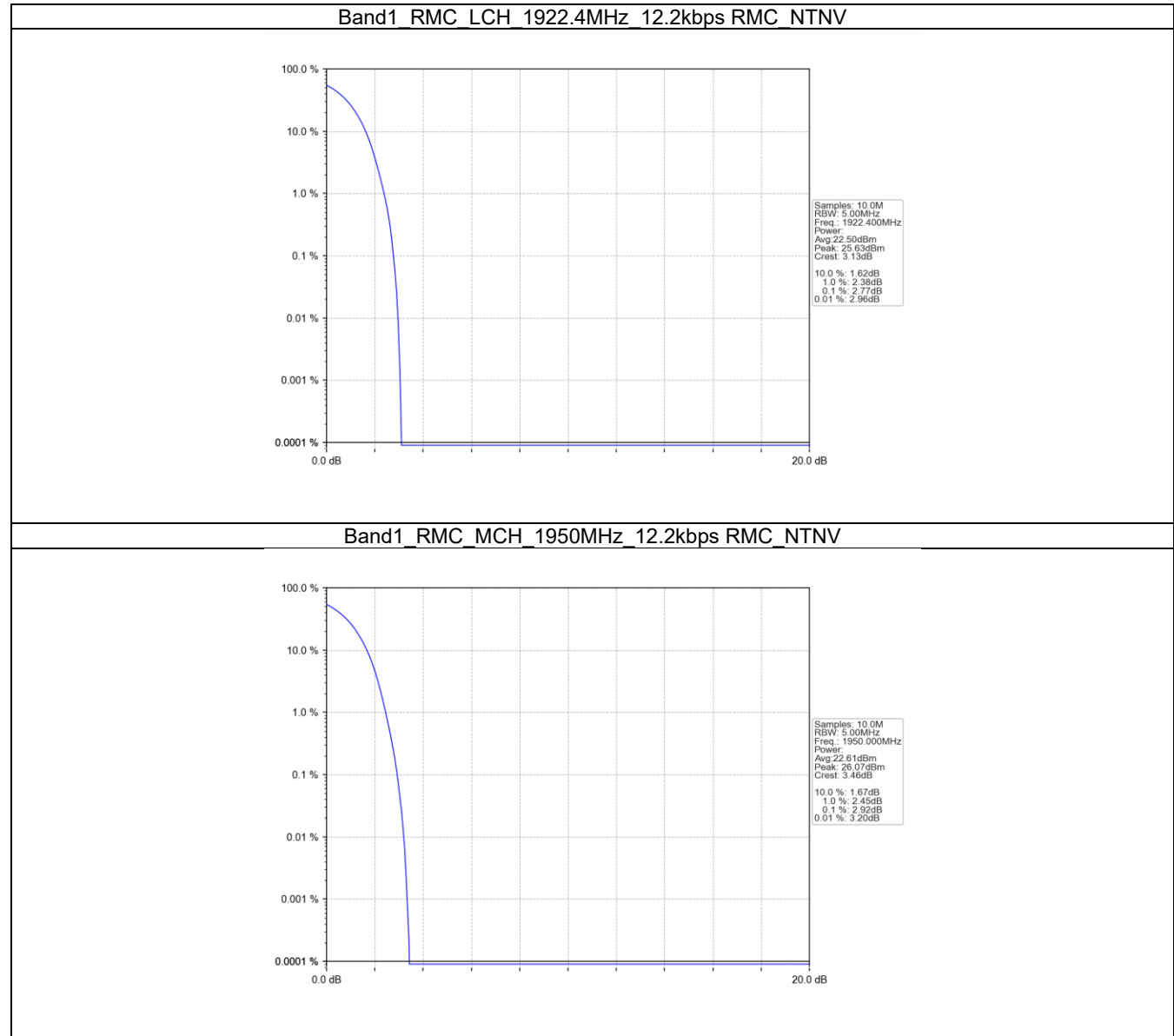
5.1 Test Result

5.1.1 Band1

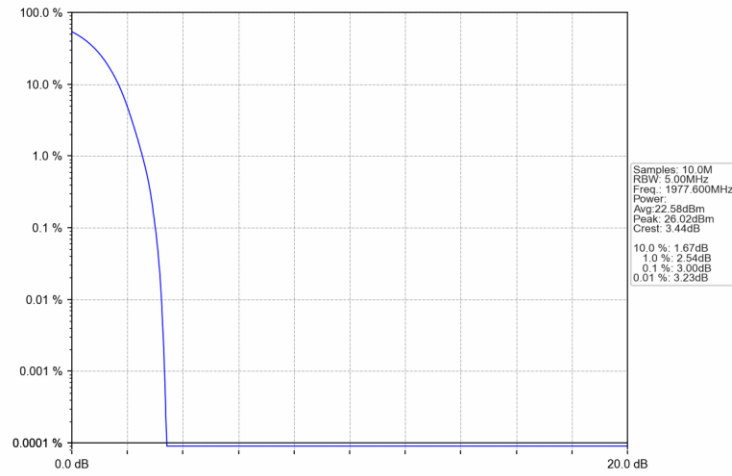
Band: 1						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1922.4	2.77	<=13	Pass
			1950	2.92	<=13	Pass
			1977.6	3.00	<=13	Pass
	HSDPA	Subtest 1	1922.4	5.88	<=13	Pass
			1950	6.00	<=13	Pass
			1977.6	5.85	<=13	Pass
	HSUPA	Subtest 1	1922.4	6.71	<=13	Pass
			1950	7.02	<=13	Pass
			1977.6	6.90	<=13	Pass

5.2 Test Graph

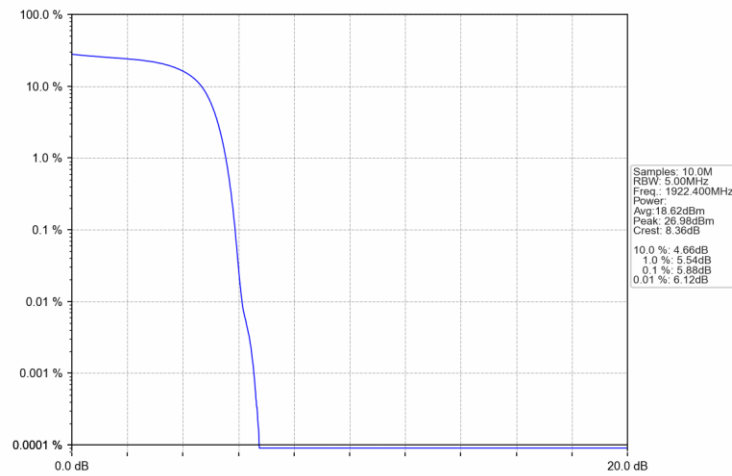
5.2.1 Band1



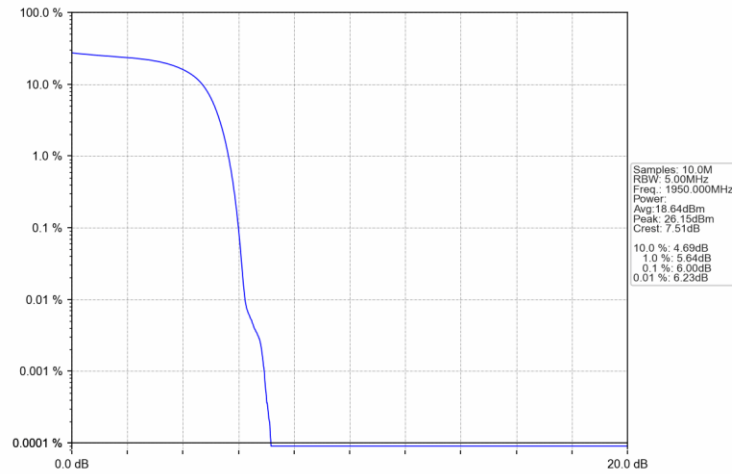
Band1_RMC_HCH_1977.6MHz_12.2kbps_RMC_NTNV



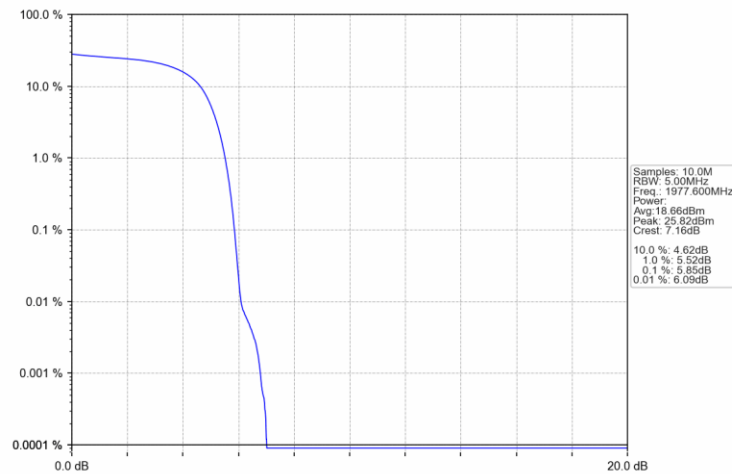
Band1_HSDPA_LCH_1922.4MHz_Subtest 1_NTNV



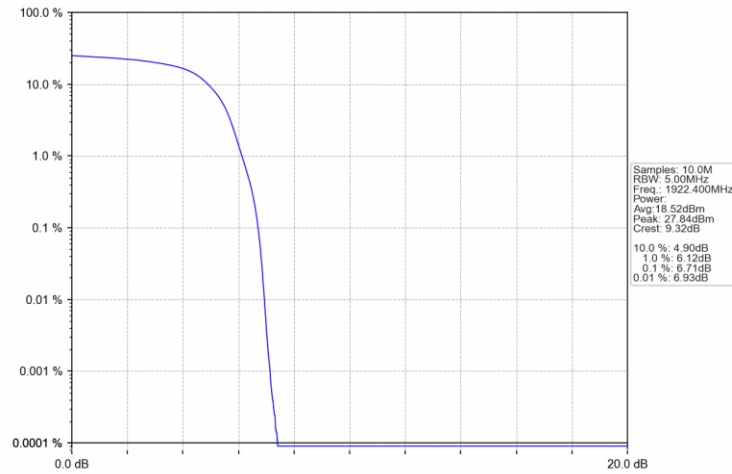
Band1_HSDPA_MCH_1950MHz_Subtest 1_NTNV



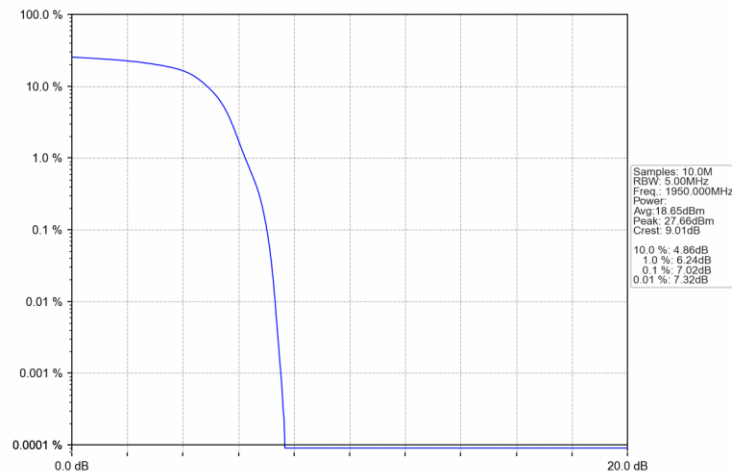
Band1_HSDPA_HCH_1977.6MHz_Subtest 1_NTNV



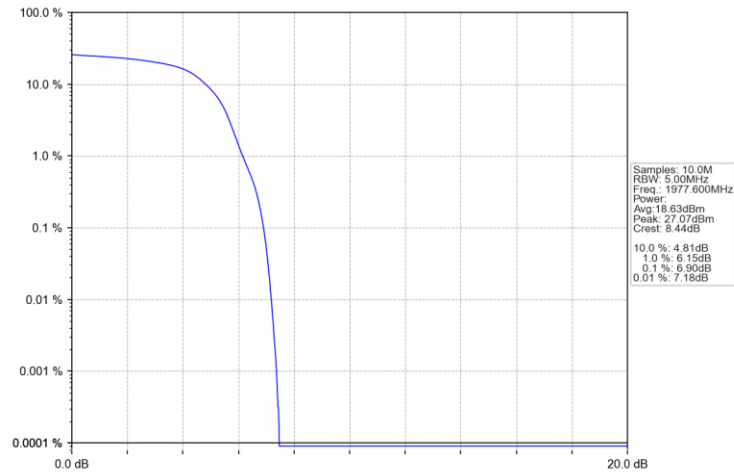
Band1_HSUPA_LCH_1922.4MHz_Subtest 1_NTNV



Band1_HSUPA_MCH_1950MHz_Subtest 1_NTNV



Band1 HSUPA HCH 1977.6MHz Subtest 1 NTV



6. Spurious Emission

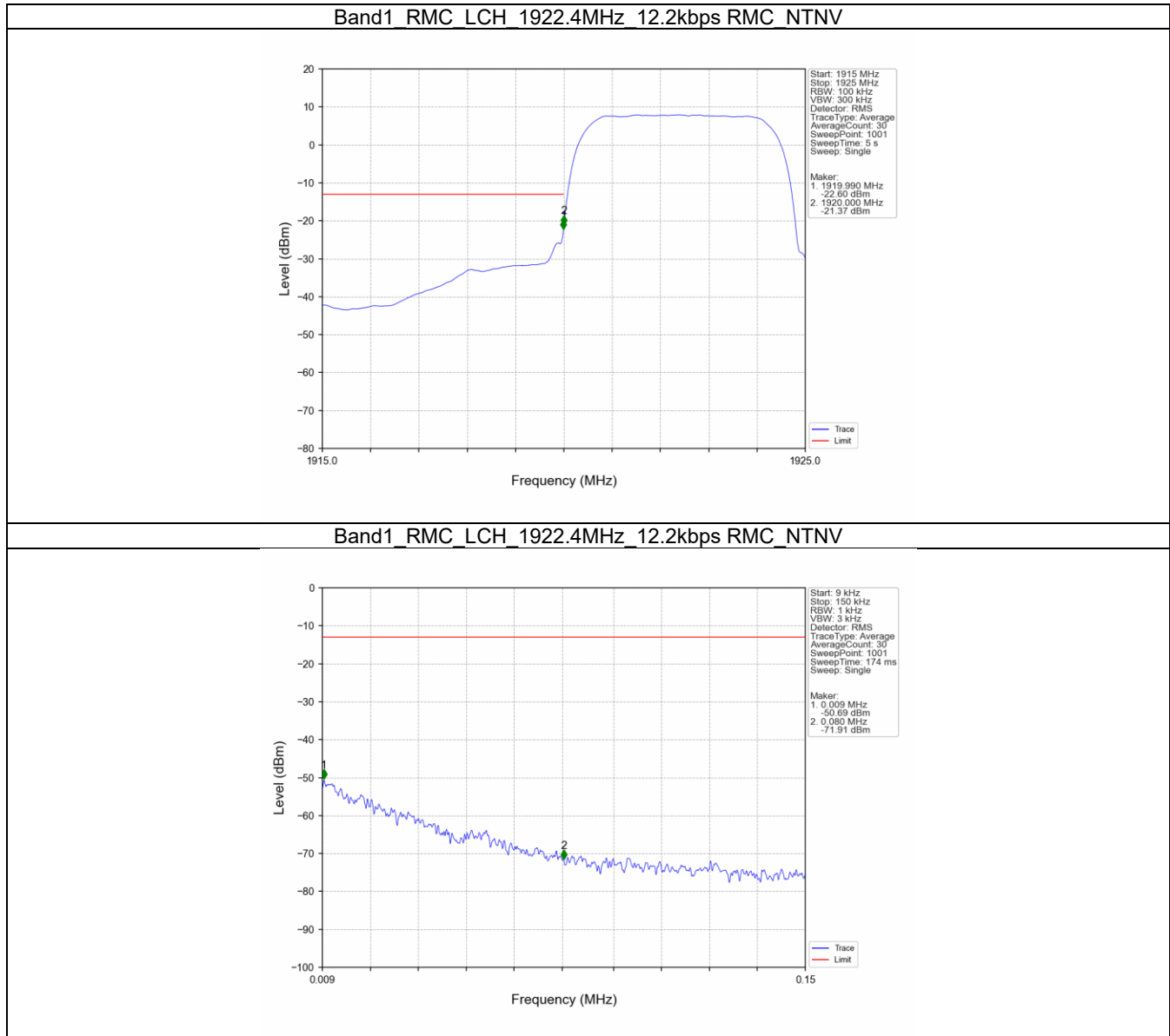
6.1 Test Result

6.1.1 Band1

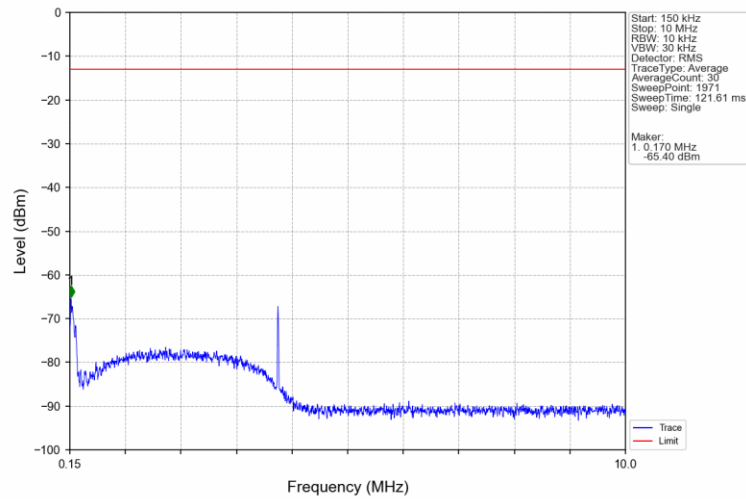
Band: 1						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1922.4	Refer To Test Graph	Pass	
			1950	Refer To Test Graph	Pass	
			1977.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1922.4	Refer To Test Graph	Pass	
			1950	Refer To Test Graph	Pass	
			1977.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1922.4	Refer To Test Graph	Pass	
			1950	Refer To Test Graph	Pass	
			1977.6	Refer To Test Graph	Pass	

6.2 Test Graph

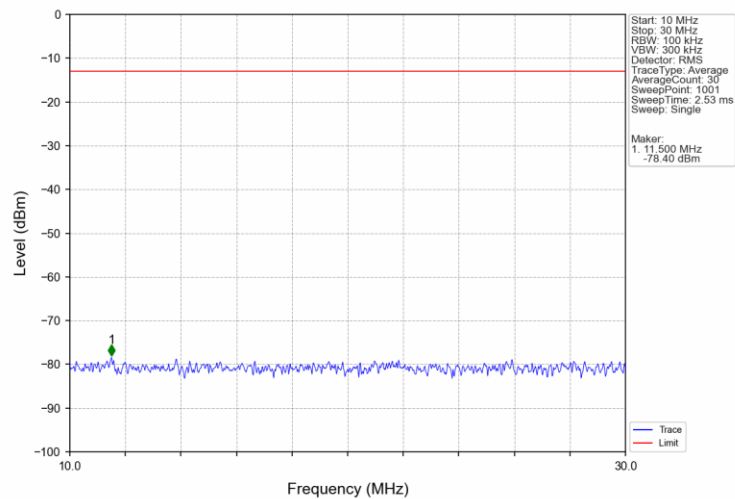
6.2.1 Band1



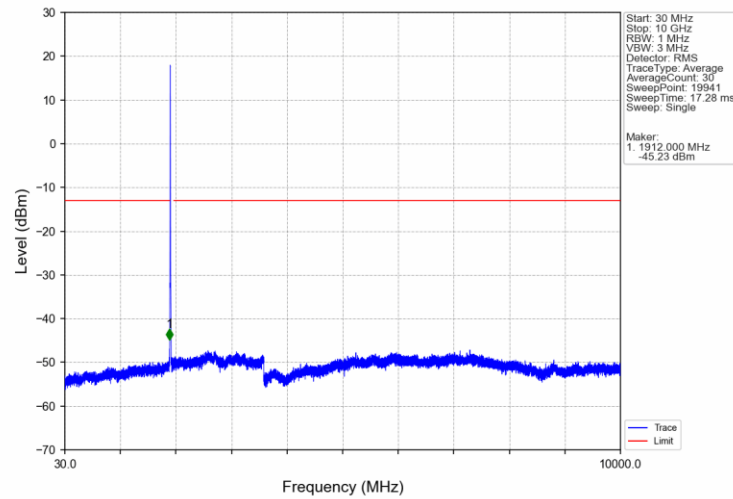
Band1_RMC_LCH_1922.4MHz_12.2kbps_RMC_NTNV



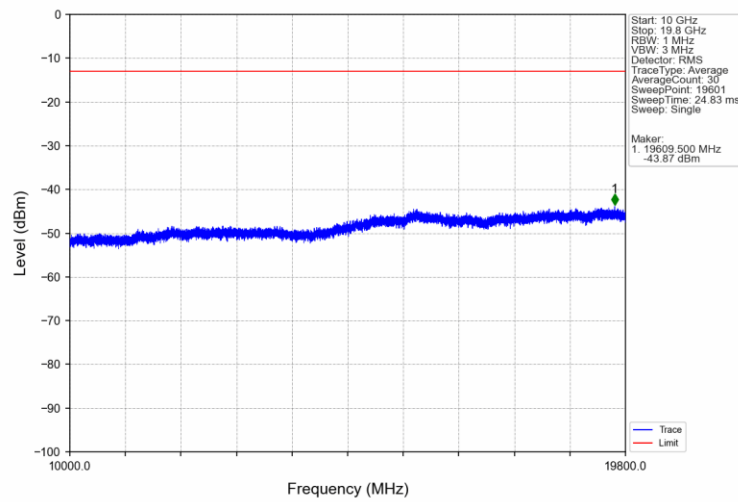
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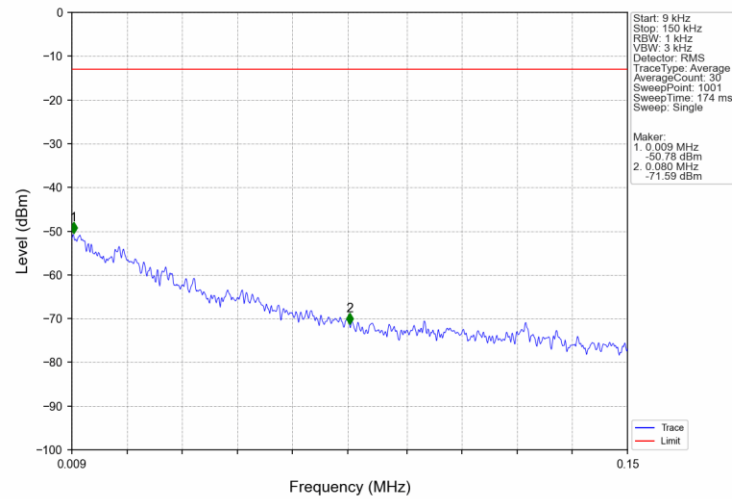
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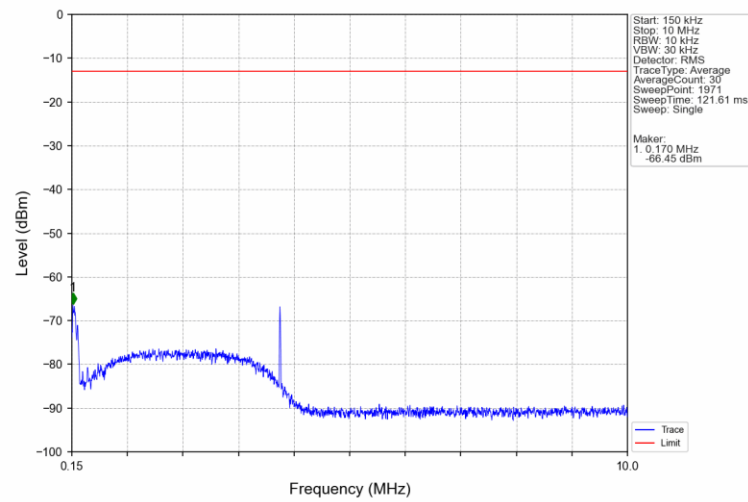
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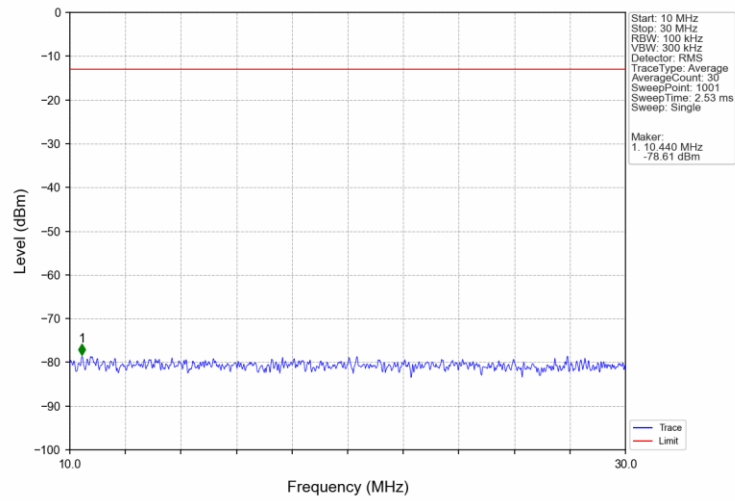
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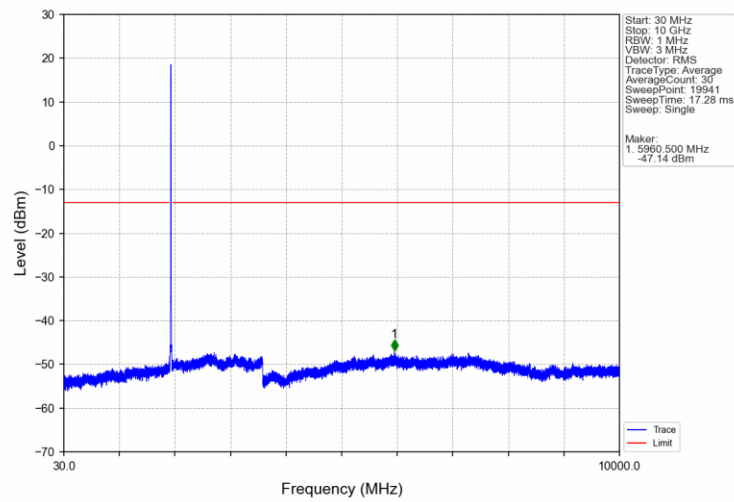
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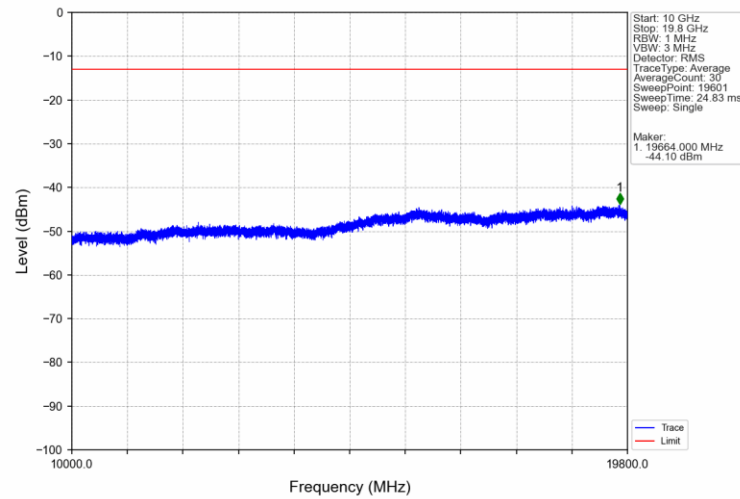
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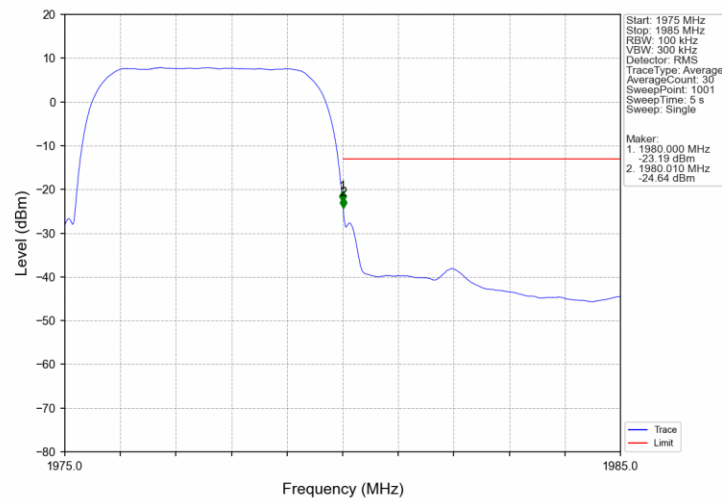
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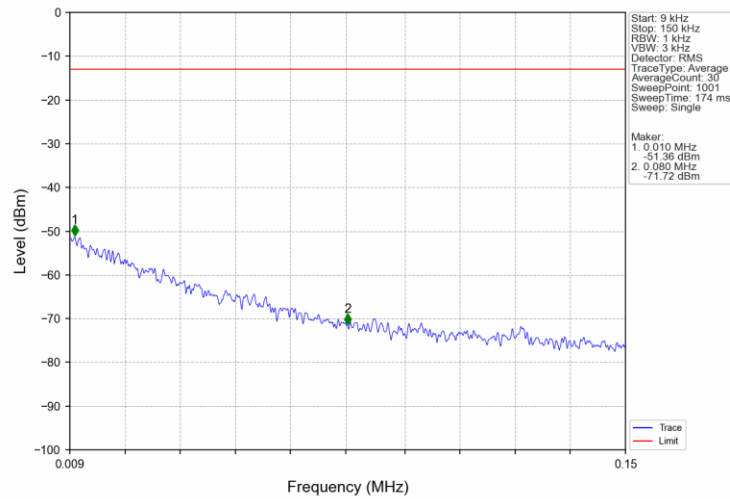
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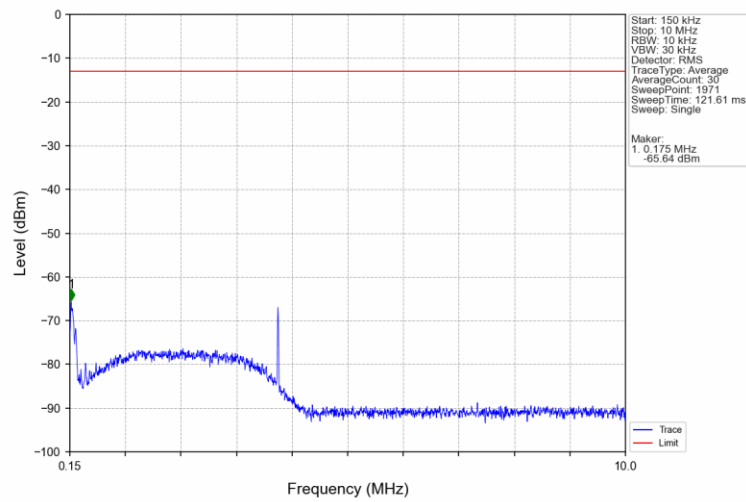
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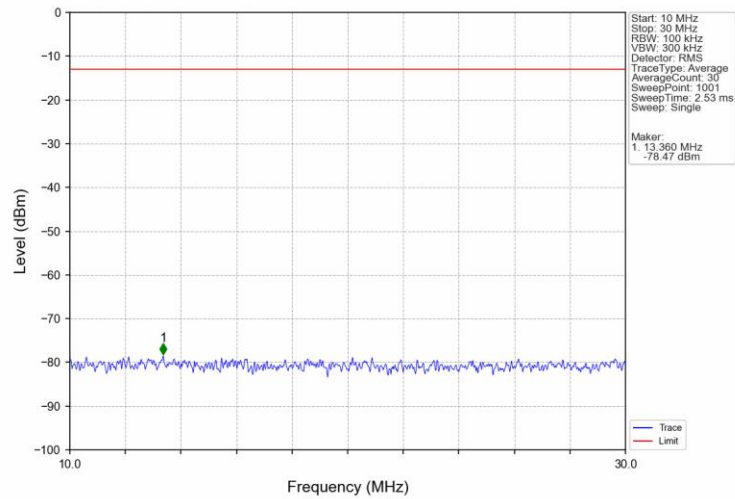
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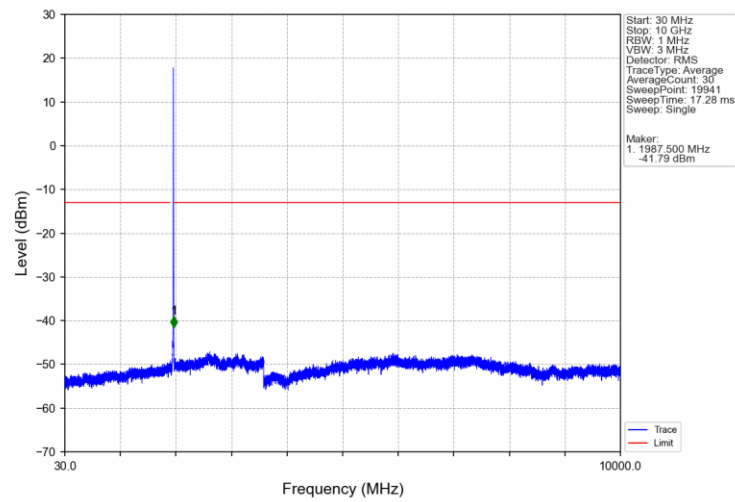
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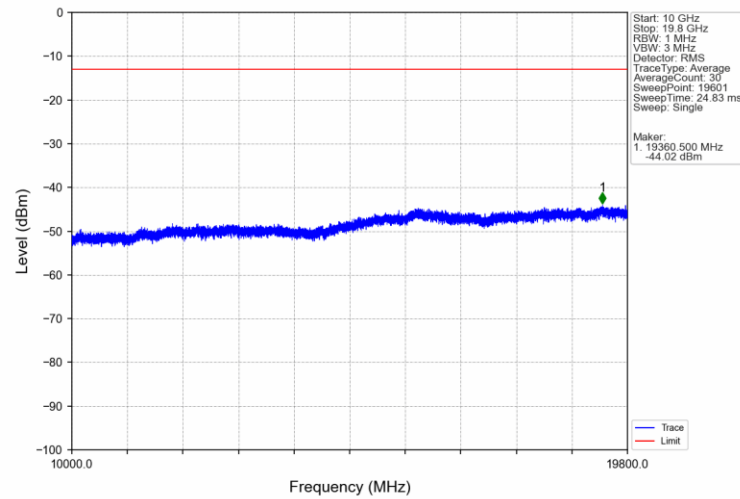
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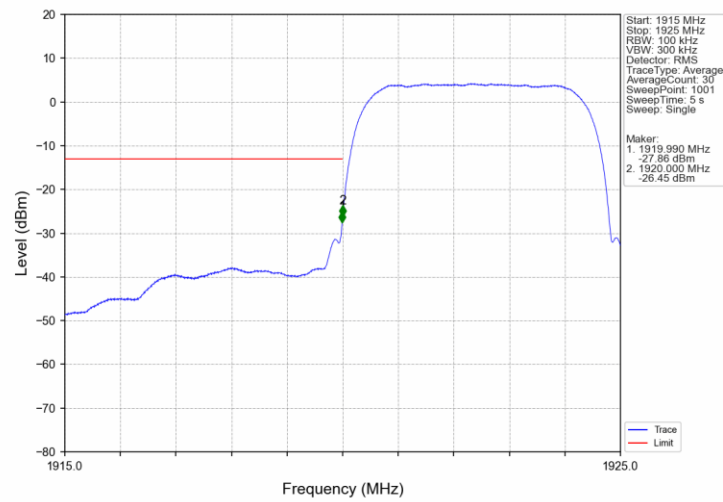
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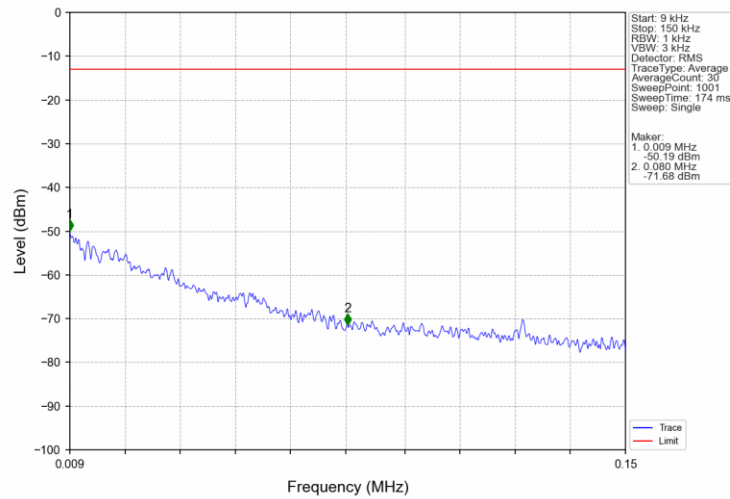
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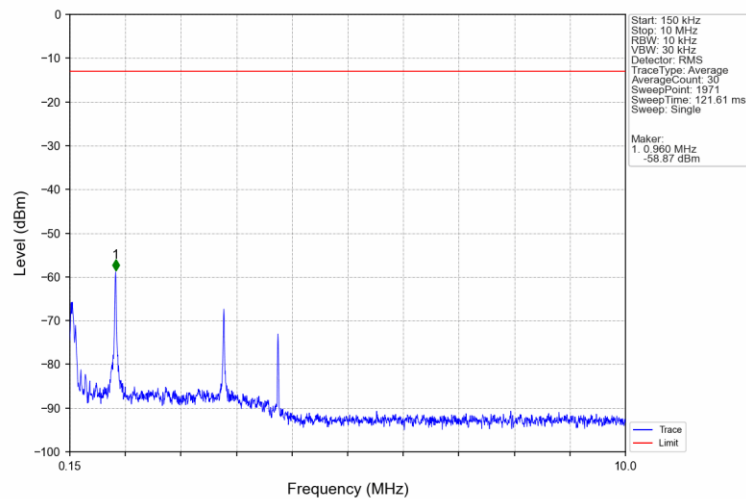
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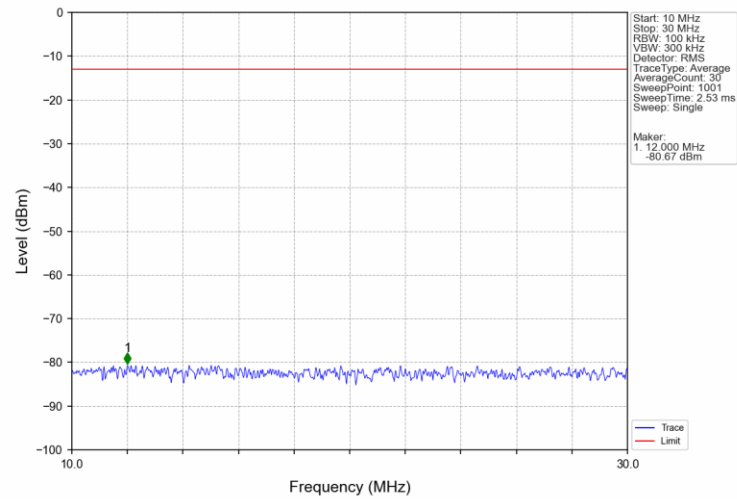
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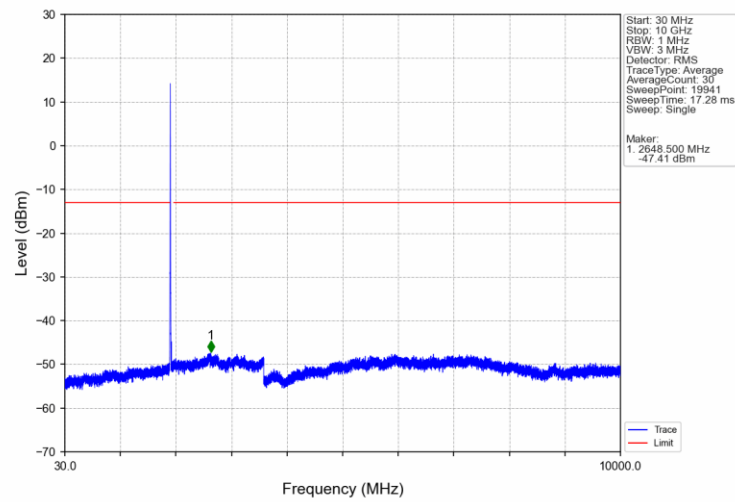
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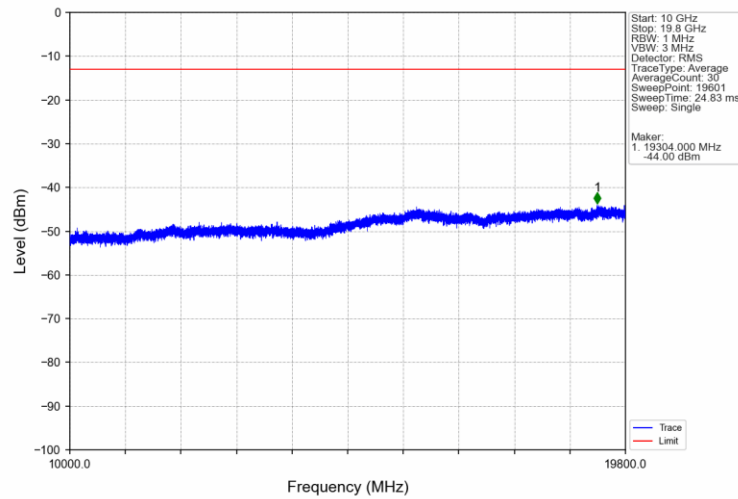
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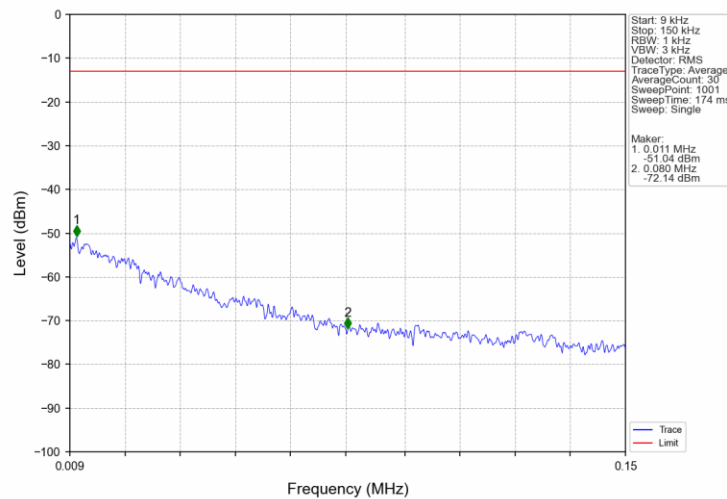
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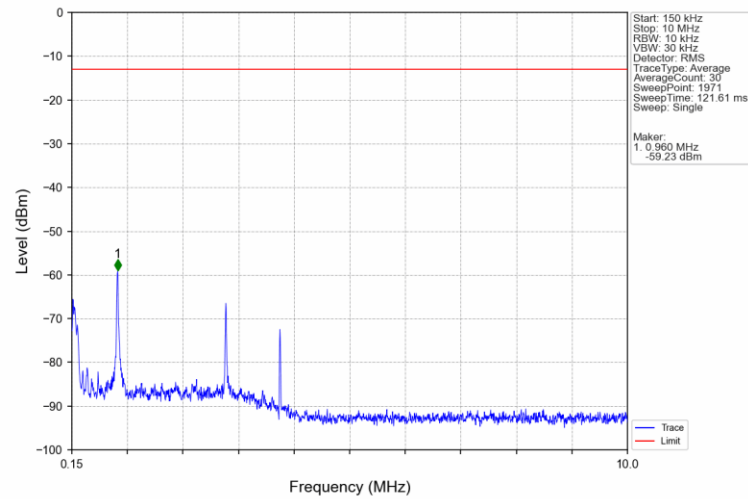
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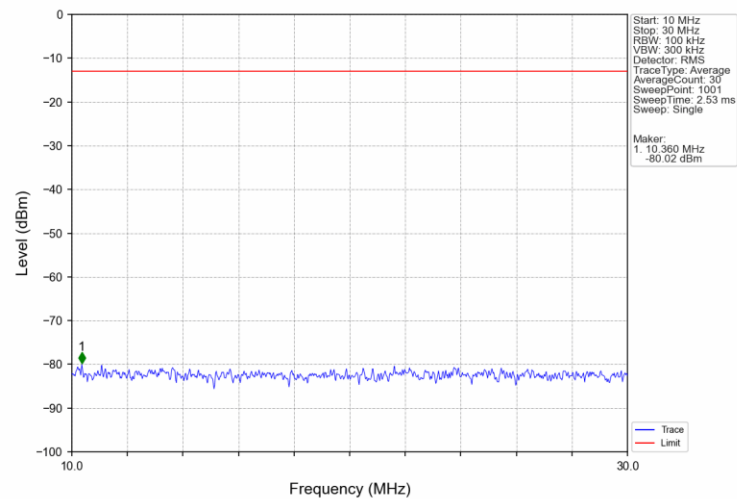
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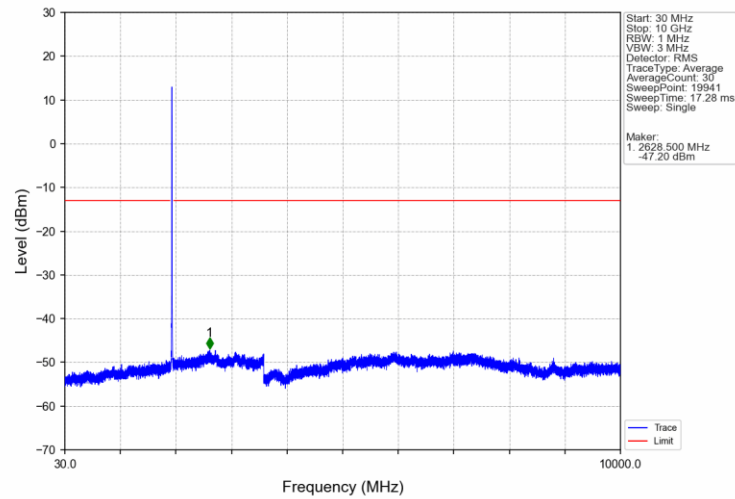
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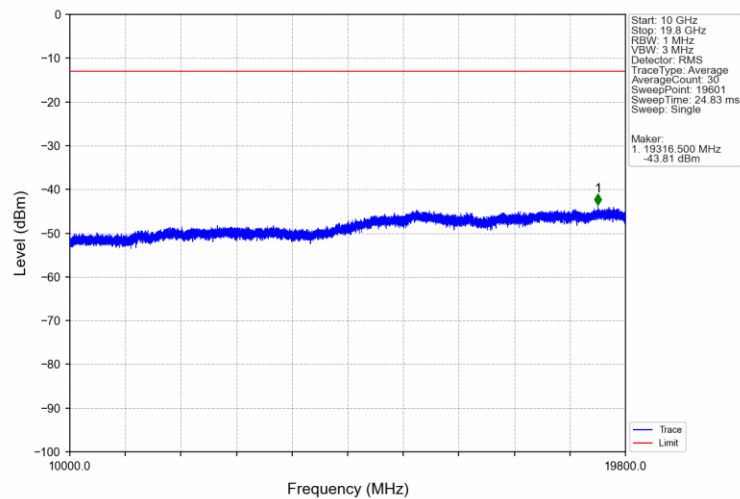
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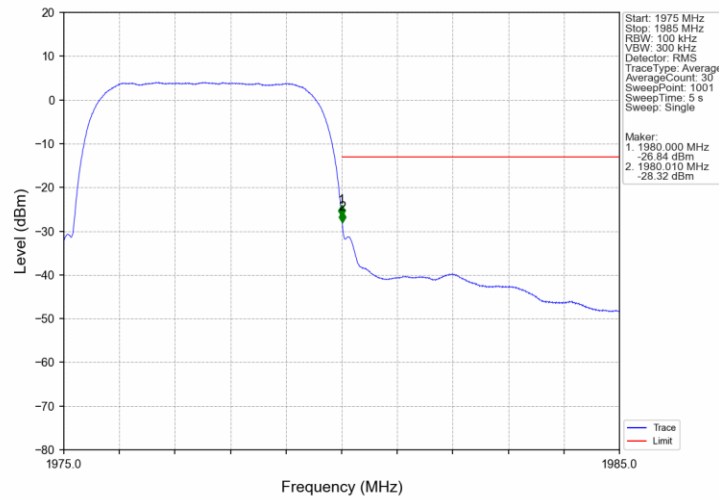
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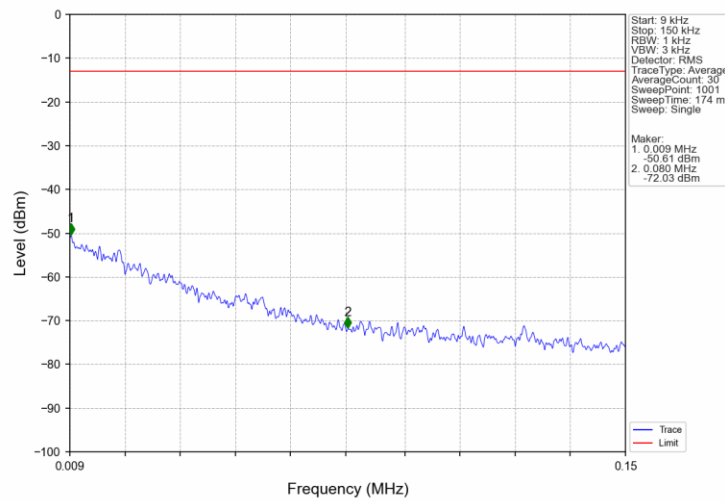
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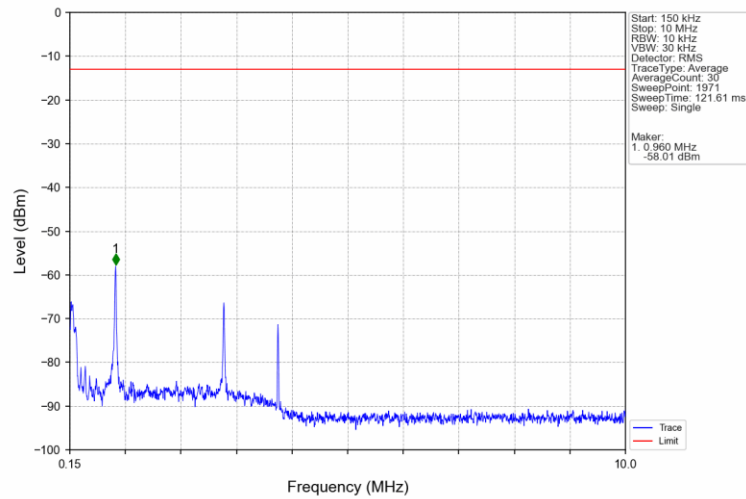
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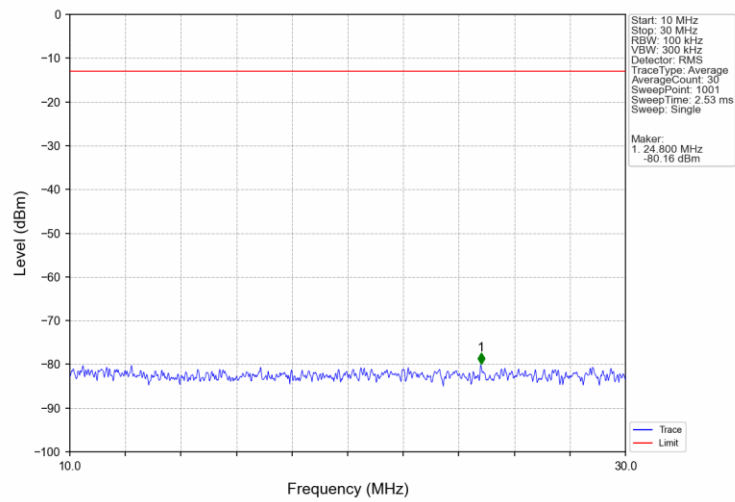
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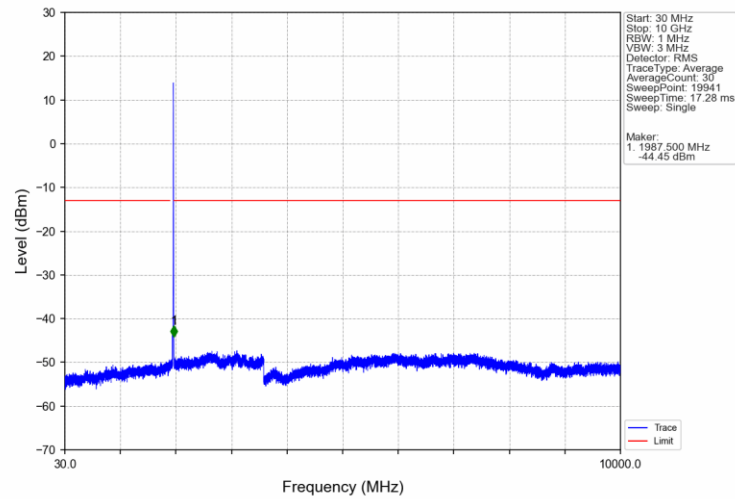
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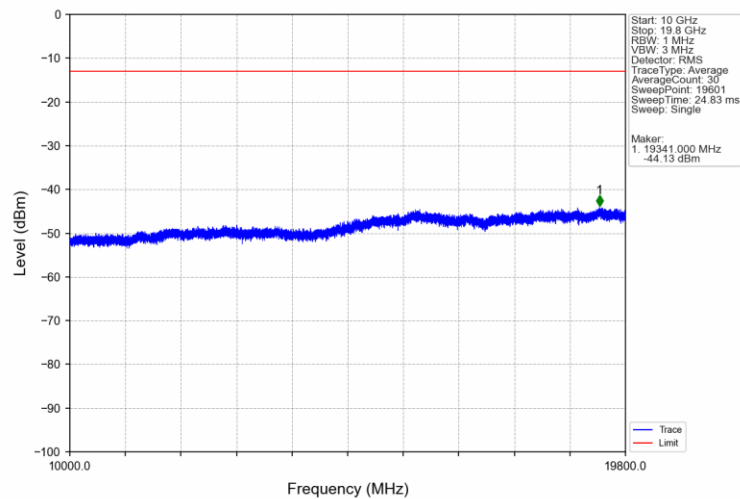
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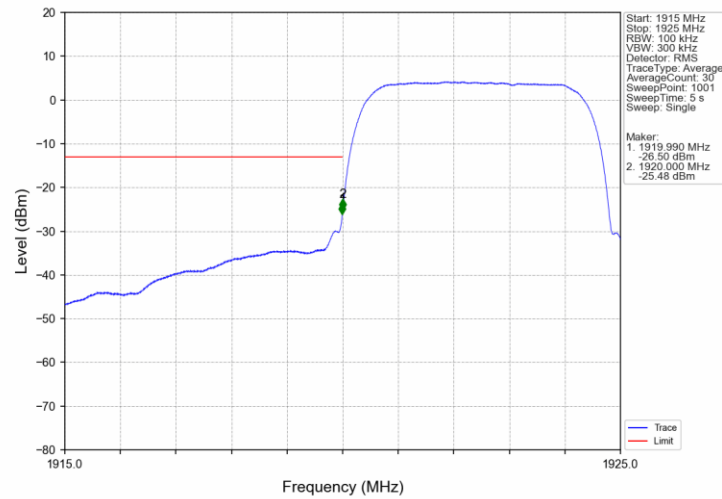
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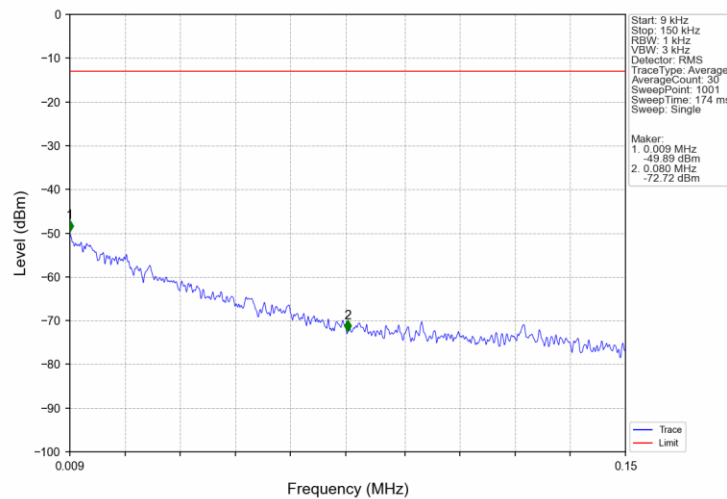
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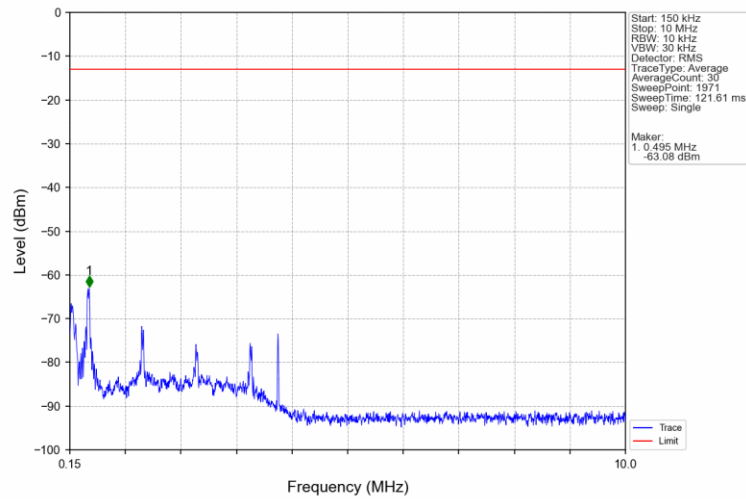
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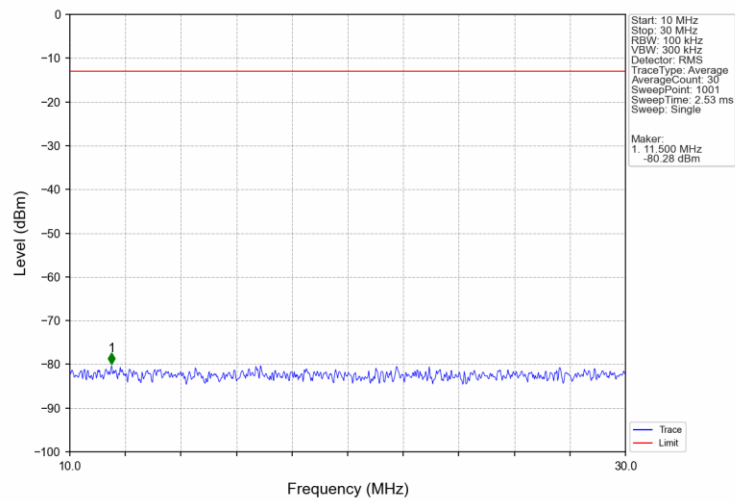
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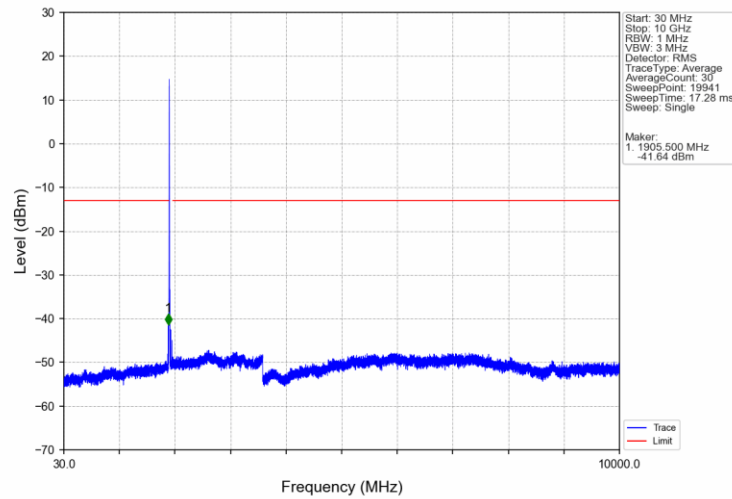
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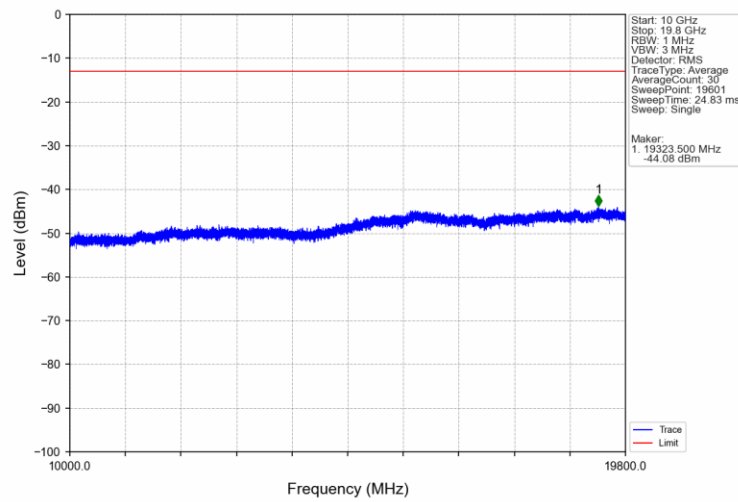
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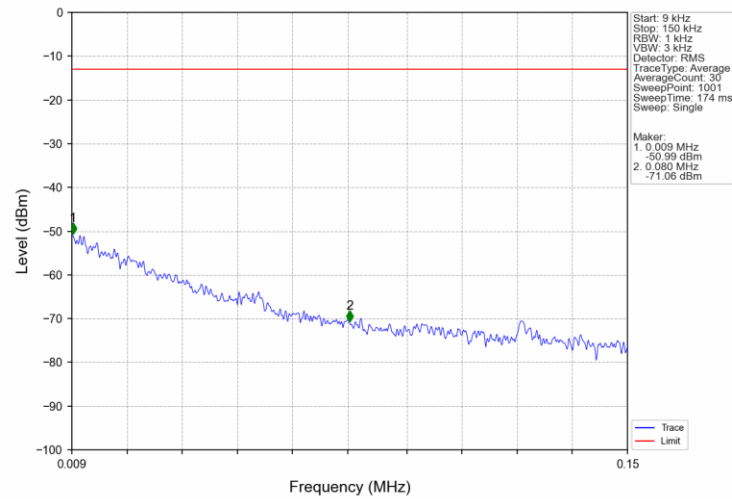
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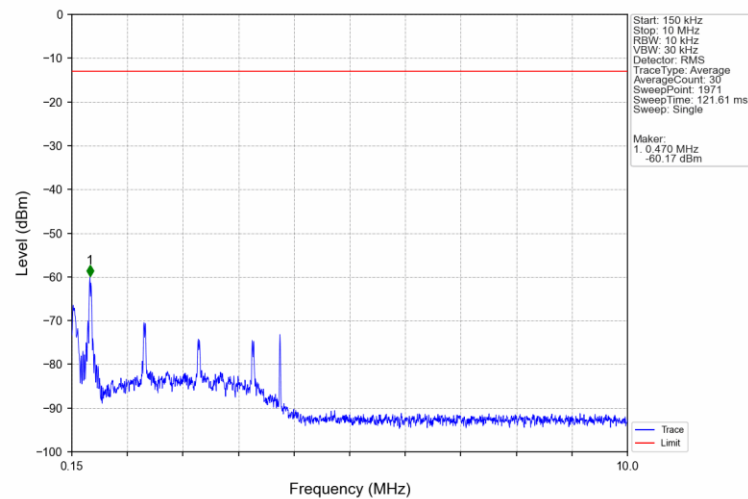
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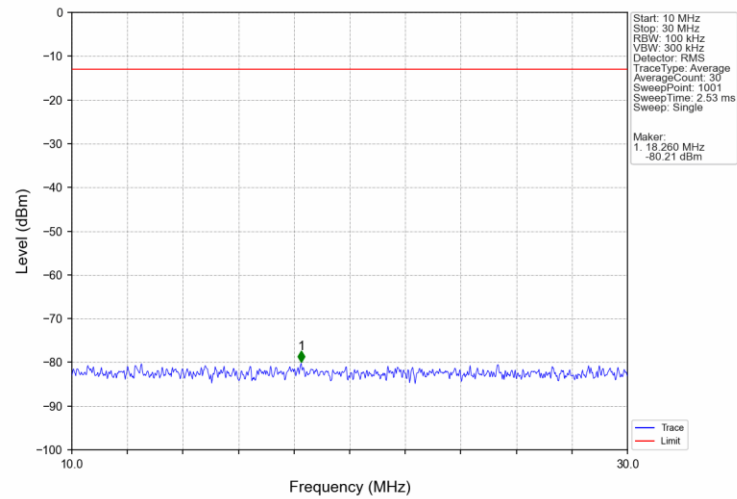
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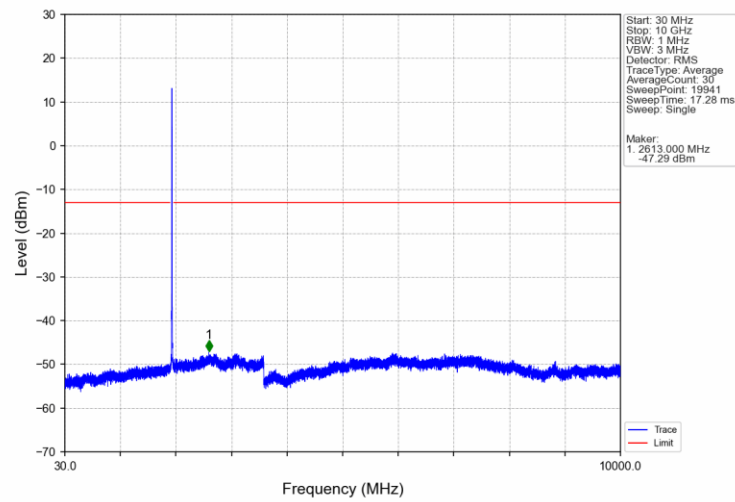
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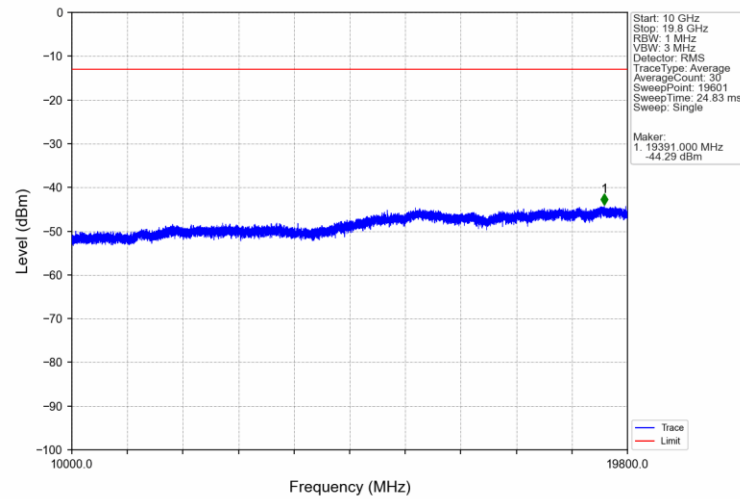
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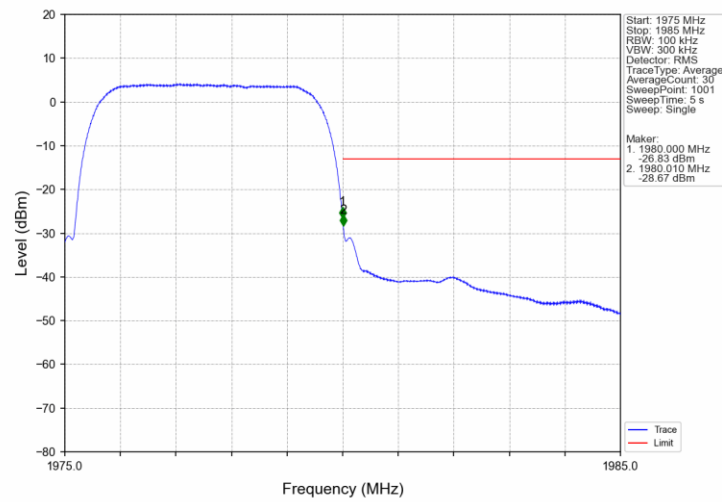
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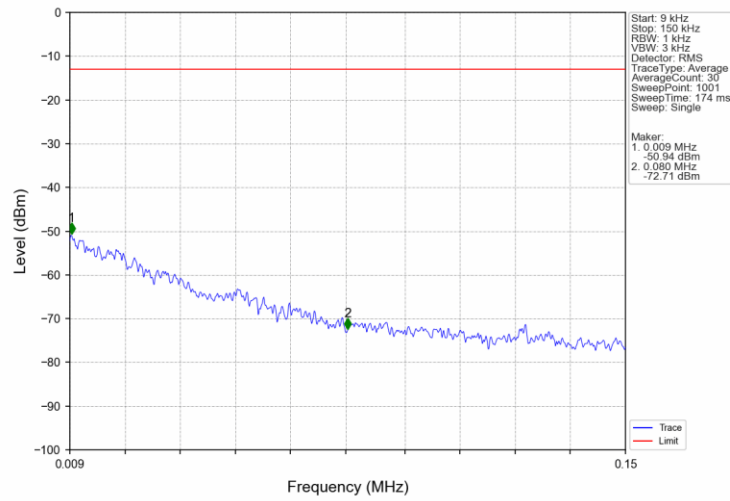
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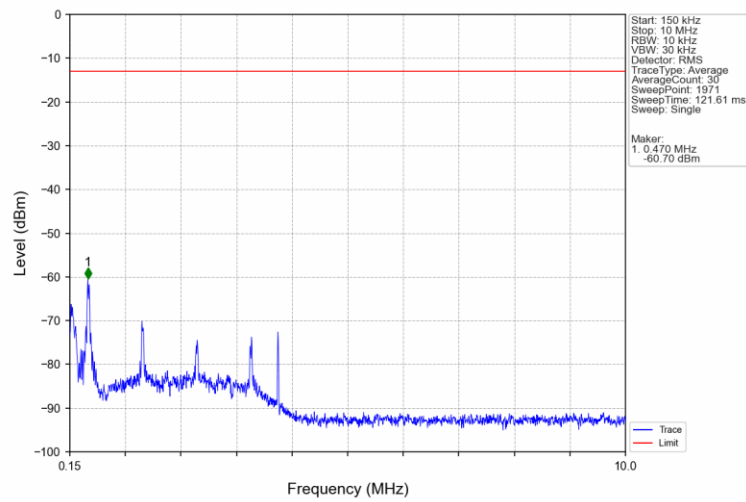
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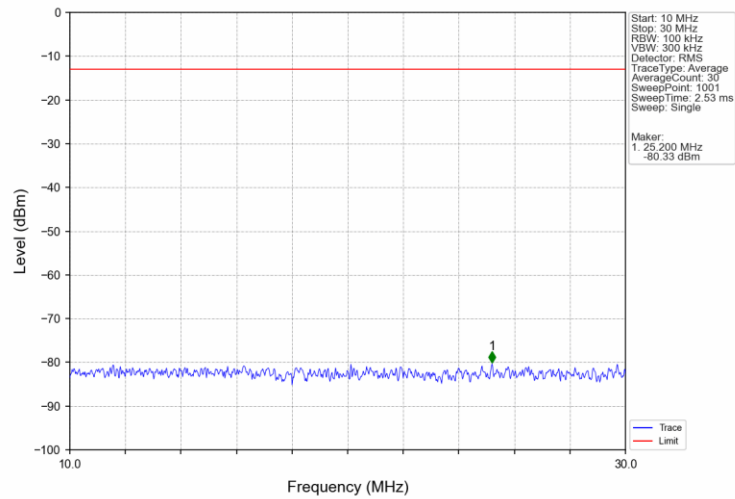
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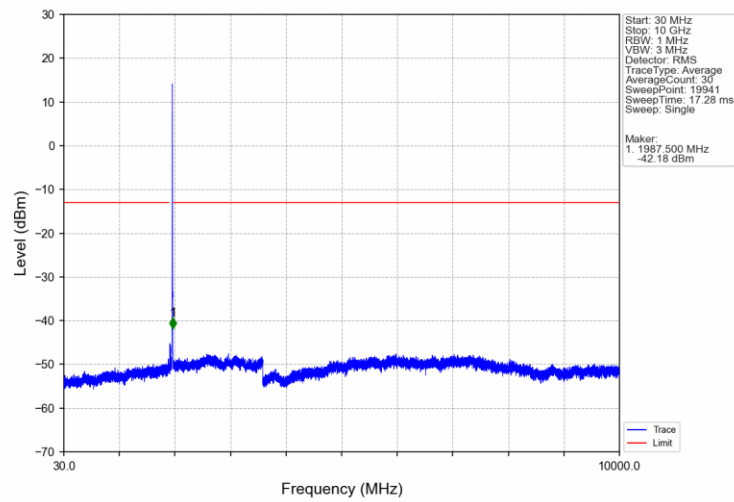
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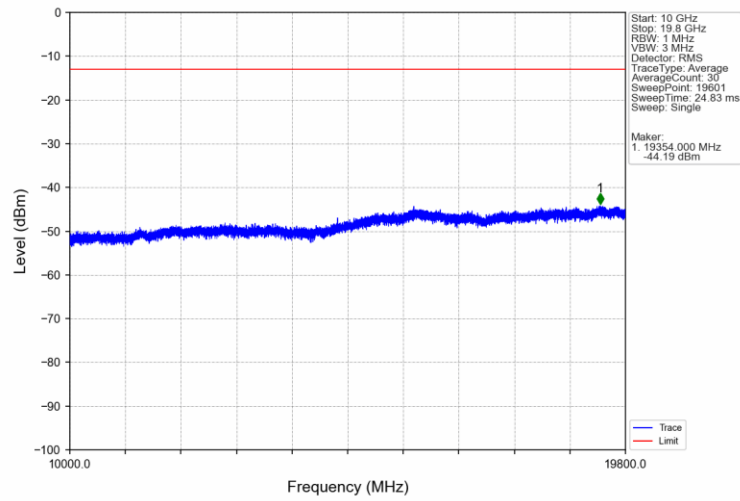
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Band1 HSUPA HCH 1977.6MHz Subtest 1 NTV



Band1 HSUPA HCH 1977.6MHz Subtest 1 NTV



7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
1	3.84	1922.4	1977.6	0.2259	0.0049	ppm	4M18F9W	/	23.54

7.1.2 Form731_EIRP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
1	3.84	1922.4	1977.6	0.2793	0.0049	ppm	4M18F9W	/	23.54

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