

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band2_EIRP

Band: 2								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	20.54	1.55	22.09	<=33.01	Pass
			1880	20.53	1.55	22.08	<=33.01	Pass
			1907.6	20.34	1.55	21.89	<=33.01	Pass
	HSDPA	Subtest 1	1852.4	20.71	1.55	22.26	<=33.01	Pass
		Subtest 2	1852.4	20.71	1.55	22.26	<=33.01	Pass
		Subtest 3	1852.4	20.69	1.55	22.24	<=33.01	Pass
		Subtest 4	1852.4	20.65	1.55	22.20	<=33.01	Pass
		Subtest 1	1880	20.82	1.55	22.37	<=33.01	Pass
		Subtest 2	1880	20.83	1.55	22.38	<=33.01	Pass
		Subtest 3	1880	20.83	1.55	22.38	<=33.01	Pass
		Subtest 4	1880	20.79	1.55	22.34	<=33.01	Pass
		Subtest 1	1907.6	20.50	1.55	22.05	<=33.01	Pass
		Subtest 2	1907.6	20.48	1.55	22.03	<=33.01	Pass
		Subtest 3	1907.6	20.42	1.55	21.97	<=33.01	Pass
		Subtest 4	1907.6	20.37	1.55	21.92	<=33.01	Pass
	HSUPA	Subtest 1	1852.4	17.87	1.55	19.42	<=33.01	Pass
		Subtest 2	1852.4	17.81	1.55	19.36	<=33.01	Pass
		Subtest 3	1852.4	17.79	1.55	19.34	<=33.01	Pass
		Subtest 4	1852.4	17.20	1.55	18.75	<=33.01	Pass
		Subtest 5	1852.4	17.80	1.55	19.35	<=33.01	Pass
		Subtest 1	1880	17.58	1.55	19.13	<=33.01	Pass
		Subtest 2	1880	17.59	1.55	19.14	<=33.01	Pass
		Subtest 3	1880	17.00	1.55	18.55	<=33.01	Pass
		Subtest 4	1880	17.02	1.55	18.57	<=33.01	Pass
		Subtest 5	1880	17.58	1.55	19.13	<=33.01	Pass
		Subtest 1	1907.6	16.83	1.55	18.38	<=33.01	Pass
		Subtest 2	1907.6	17.42	1.55	18.97	<=33.01	Pass
		Subtest 3	1907.6	16.80	1.55	18.35	<=33.01	Pass
		Subtest 4	1907.6	16.80	1.55	18.35	<=33.01	Pass
		Subtest 5	1907.6	17.30	1.55	18.85	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band2

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.27	-0.136	-0.0001	-2.5 to 2.5	Pass
			3.85	0.694	0.0004	-2.5 to 2.5	Pass
			4.43	-0.365	-0.0002	-2.5 to 2.5	Pass
		-30	3.85	0.594	0.0003	-2.5 to 2.5	Pass
		-20	3.85	0.622	0.0003	-2.5 to 2.5	Pass

		-10	3.85	0.186	0.0001	-2.5 to 2.5	Pass	
		0	3.85	-0.694	-0.0004	-2.5 to 2.5	Pass	
		10	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass	
		30	3.85	-1.302	-0.0007	-2.5 to 2.5	Pass	
		40	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass	
		50	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass	
	1880	20	3.27	-0.966	-0.0005	-2.5 to 2.5	Pass	
			3.85	-1.702	-0.0009	-2.5 to 2.5	Pass	
			4.43	-0.887	-0.0005	-2.5 to 2.5	Pass	
		-30	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass	
		-20	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass	
		-10	3.85	-0.279	-0.0001	-2.5 to 2.5	Pass	
		0	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass	
		10	3.85	-1.001	-0.0005	-2.5 to 2.5	Pass	
		30	3.85	0.029	0.0000	-2.5 to 2.5	Pass	
		40	3.85	0.694	0.0004	-2.5 to 2.5	Pass	
		50	3.85	0.601	0.0003	-2.5 to 2.5	Pass	
		1907.6	20	3.27	0.536	0.0003	-2.5 to 2.5	Pass
	3.85			0.830	0.0004	-2.5 to 2.5	Pass	
	4.43			0.694	0.0004	-2.5 to 2.5	Pass	
	-30		3.85	0.737	0.0004	-2.5 to 2.5	Pass	
	-20		3.85	0.708	0.0004	-2.5 to 2.5	Pass	
	-10		3.85	0.758	0.0004	-2.5 to 2.5	Pass	
	0		3.85	0.536	0.0003	-2.5 to 2.5	Pass	
	10		3.85	0.515	0.0003	-2.5 to 2.5	Pass	
	30		3.85	0.565	0.0003	-2.5 to 2.5	Pass	
	40		3.85	0.408	0.0002	-2.5 to 2.5	Pass	
	50		3.85	1.287	0.0007	-2.5 to 2.5	Pass	
	HSDPA		1852.4	20	3.27	-5.379	-0.0029	-2.5 to 2.5
		3.85			-14.019	-0.0076	-2.5 to 2.5	Pass
		4.43			-12.567	-0.0068	-2.5 to 2.5	Pass
		-30		3.85	-18.768	-0.0101	-2.5 to 2.5	Pass
		-20		3.85	-16.980	-0.0092	-2.5 to 2.5	Pass
-10		3.85		-15.943	-0.0086	-2.5 to 2.5	Pass	
0		3.85		-10.271	-0.0055	-2.5 to 2.5	Pass	
10		3.85		-9.735	-0.0053	-2.5 to 2.5	Pass	
30		3.85		-23.224	-0.0125	-2.5 to 2.5	Pass	
40		3.85		-5.994	-0.0032	-2.5 to 2.5	Pass	
50		3.85		-1.903	-0.0010	-2.5 to 2.5	Pass	
1880		20		3.27	-0.343	-0.0002	-2.5 to 2.5	Pass
			3.85	10.664	0.0057	-2.5 to 2.5	Pass	
			4.43	26.543	0.0141	-2.5 to 2.5	Pass	
		-30	3.85	32.072	0.0171	-2.5 to 2.5	Pass	
		-20	3.85	37.851	0.0201	-2.5 to 2.5	Pass	
		-10	3.85	43.581	0.0232	-2.5 to 2.5	Pass	
		0	3.85	44.553	0.0237	-2.5 to 2.5	Pass	
		10	3.85	48.101	0.0256	-2.5 to 2.5	Pass	
		30	3.85	49.767	0.0265	-2.5 to 2.5	Pass	
		40	3.85	57.027	0.0303	-2.5 to 2.5	Pass	
		50	3.85	54.052	0.0288	-2.5 to 2.5	Pass	
		1907.6	20	3.27	-6.909	-0.0036	-2.5 to 2.5	Pass
3.85				-8.025	-0.0042	-2.5 to 2.5	Pass	
4.43				-6.495	-0.0034	-2.5 to 2.5	Pass	
-30			3.85	9.885	0.0052	-2.5 to 2.5	Pass	
-20			3.85	14.663	0.0077	-2.5 to 2.5	Pass	
-10			3.85	10.328	0.0054	-2.5 to 2.5	Pass	
0			3.85	11.837	0.0062	-2.5 to 2.5	Pass	
10			3.85	8.047	0.0042	-2.5 to 2.5	Pass	
30			3.85	22.702	0.0119	-2.5 to 2.5	Pass	

HSUPA	1852.4	40	3.85	30.212	0.0158	-2.5 to 2.5	Pass
		50	3.85	38.967	0.0204	-2.5 to 2.5	Pass
		20	3.27	6.673	0.0036	-2.5 to 2.5	Pass
			3.85	9.227	0.0050	-2.5 to 2.5	Pass
			4.43	9.120	0.0049	-2.5 to 2.5	Pass
		-30	3.85	18.854	0.0102	-2.5 to 2.5	Pass
		-20	3.85	34.161	0.0184	-2.5 to 2.5	Pass
		-10	3.85	38.381	0.0207	-2.5 to 2.5	Pass
		0	3.85	35.977	0.0194	-2.5 to 2.5	Pass
		10	3.85	42.779	0.0231	-2.5 to 2.5	Pass
		30	3.85	45.118	0.0244	-2.5 to 2.5	Pass
		40	3.85	36.936	0.0199	-2.5 to 2.5	Pass
		50	3.85	33.853	0.0183	-2.5 to 2.5	Pass
	1880	20	3.27	3.741	0.0020	-2.5 to 2.5	Pass
			3.85	-0.958	-0.0005	-2.5 to 2.5	Pass
			4.43	3.390	0.0018	-2.5 to 2.5	Pass
		-30	3.85	10.228	0.0054	-2.5 to 2.5	Pass
		-20	3.85	9.456	0.0050	-2.5 to 2.5	Pass
		-10	3.85	14.098	0.0075	-2.5 to 2.5	Pass
		0	3.85	5.329	0.0028	-2.5 to 2.5	Pass
		10	3.85	19.798	0.0105	-2.5 to 2.5	Pass
		30	3.85	12.853	0.0068	-2.5 to 2.5	Pass
		40	3.85	24.233	0.0129	-2.5 to 2.5	Pass
		50	3.85	26.507	0.0141	-2.5 to 2.5	Pass
	1907.6	20	3.27	3.541	0.0019	-2.5 to 2.5	Pass
			3.85	11.172	0.0059	-2.5 to 2.5	Pass
			4.43	18.597	0.0097	-2.5 to 2.5	Pass
		-30	3.85	24.190	0.0127	-2.5 to 2.5	Pass
		-20	3.85	30.992	0.0162	-2.5 to 2.5	Pass
		-10	3.85	43.910	0.0230	-2.5 to 2.5	Pass
		0	3.85	42.529	0.0223	-2.5 to 2.5	Pass
		10	3.85	48.316	0.0253	-2.5 to 2.5	Pass
		30	3.85	52.414	0.0275	-2.5 to 2.5	Pass
		40	3.85	49.803	0.0261	-2.5 to 2.5	Pass
		50	3.85	39.489	0.0207	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

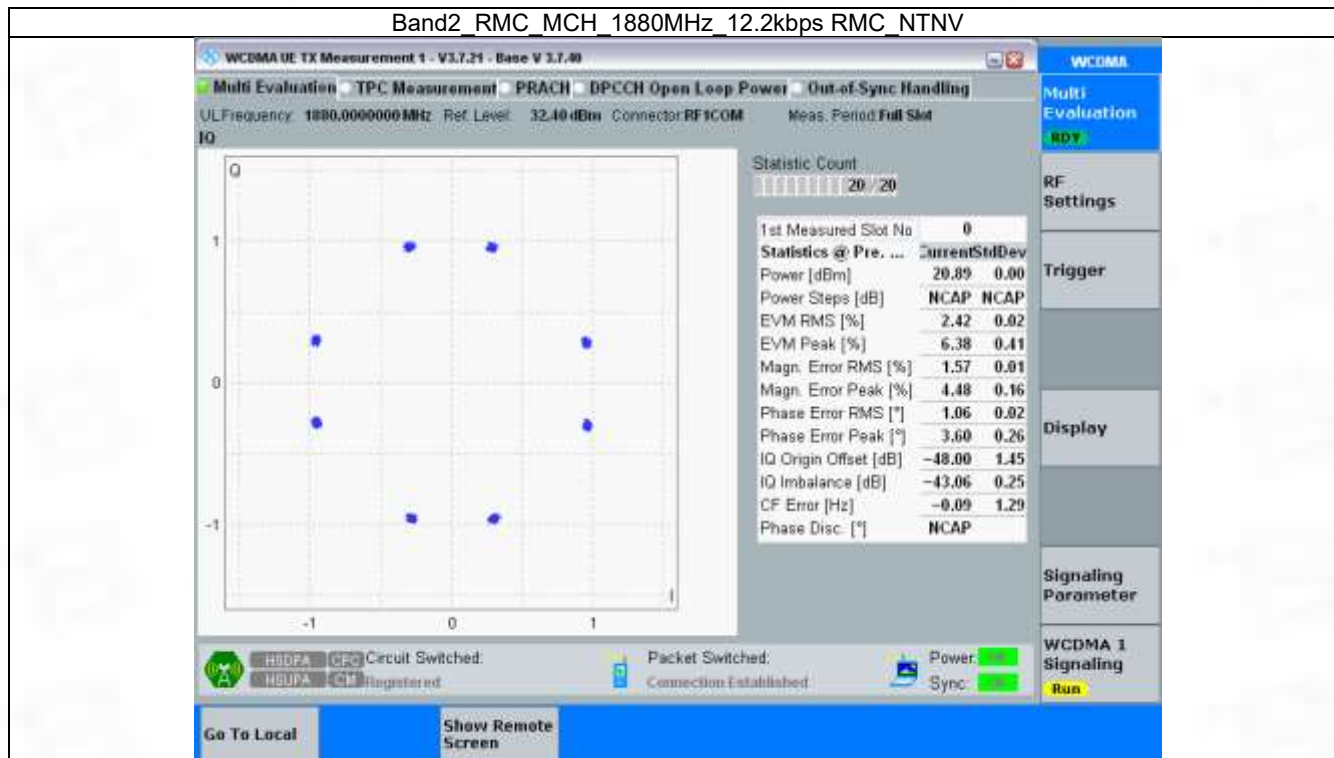
3.1.1 Band2

Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph		Pass

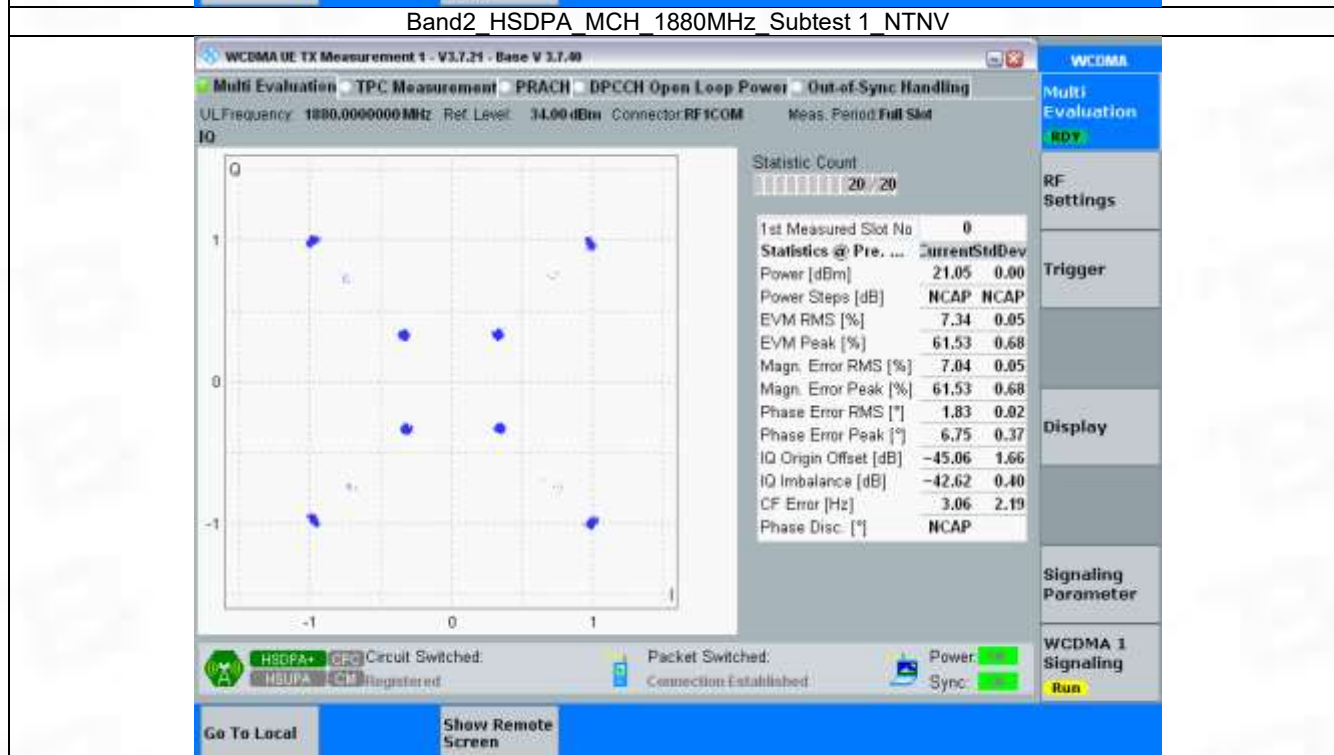
3.2 Test Graph

3.2.1 Band2

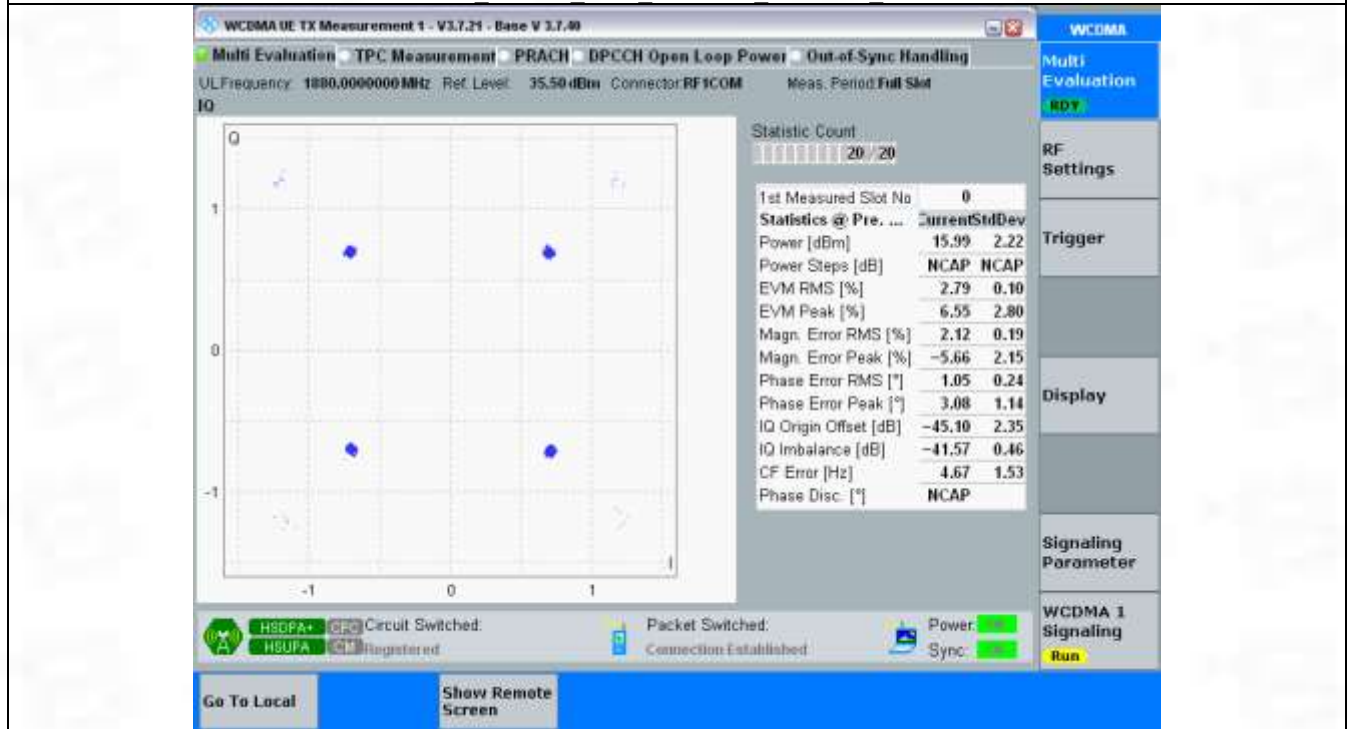
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2 HSUPA MCH 1880MHz Subtest 1 NTN



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band2_OBW

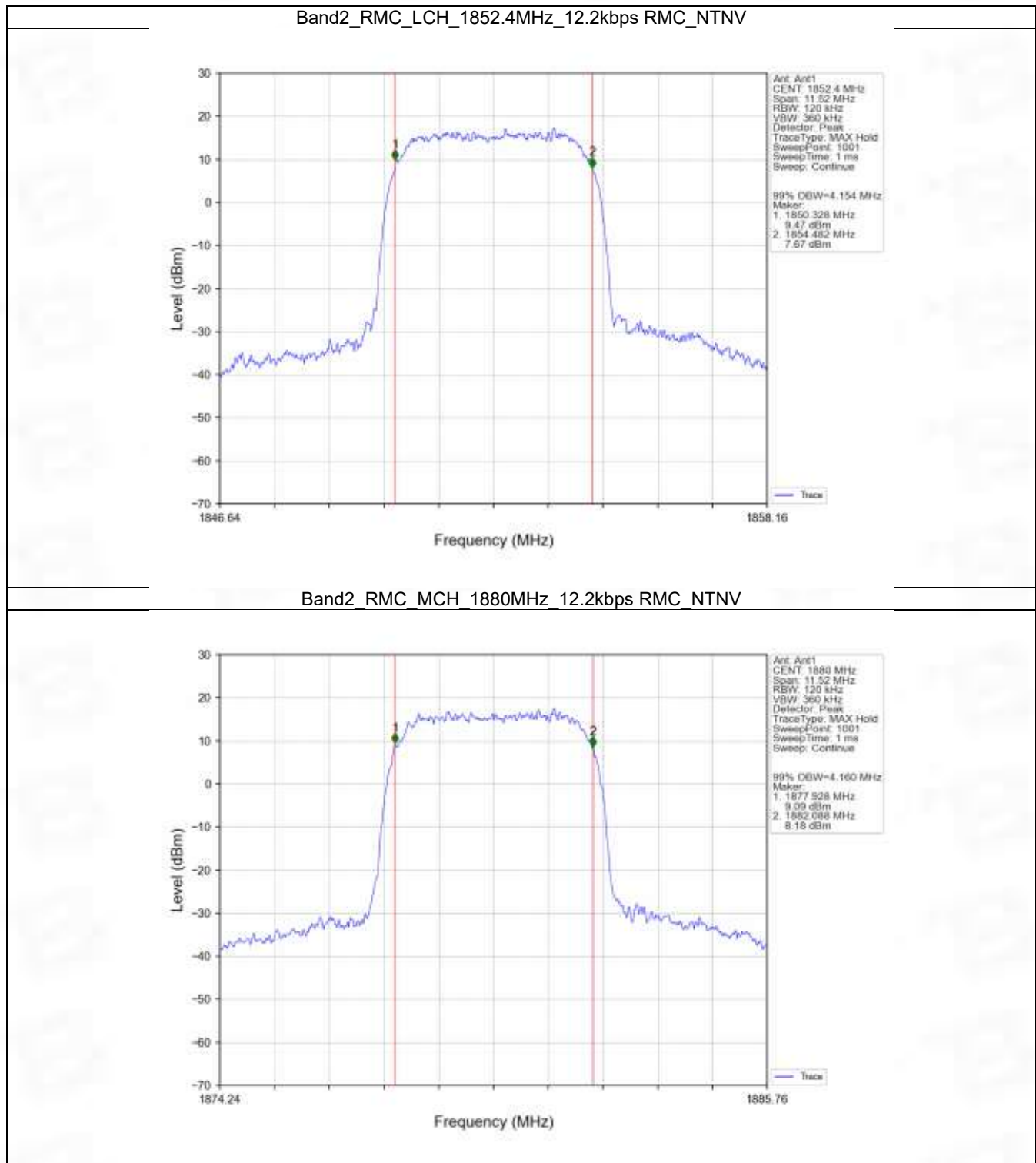
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.154	/	Pass
			1880	4.160	/	Pass
			1907.6	4.163	/	Pass
	HSDPA	Subtest 1	1852.4	4.159	/	Pass
			1880	4.163	/	Pass
			1907.6	4.167	/	Pass
	HSUPA	Subtest 1	1852.4	4.159	/	Pass
			1880	4.154	/	Pass
			1907.6	4.156	/	Pass

4.1.2 Band2_XDB

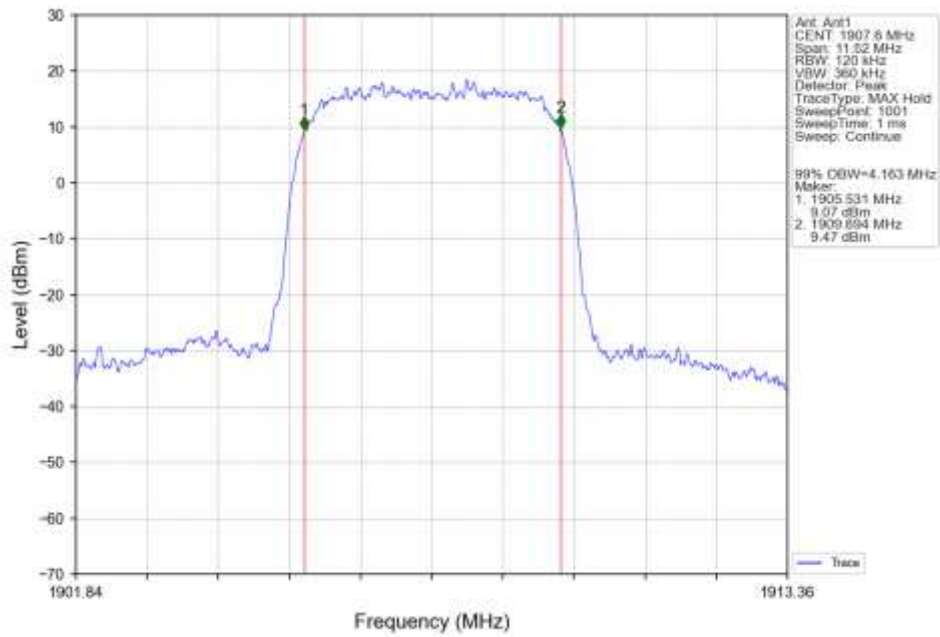
Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.706	/	Pass
			1880	4.700	/	Pass
			1907.6	4.685	/	Pass
	HSDPA	Subtest 1	1852.4	4.739	/	Pass
			1880	4.684	/	Pass
			1907.6	4.709	/	Pass
	HSUPA	Subtest 1	1852.4	4.701	/	Pass
			1880	4.714	/	Pass
			1907.6	4.720	/	Pass

4.2 Test Graph

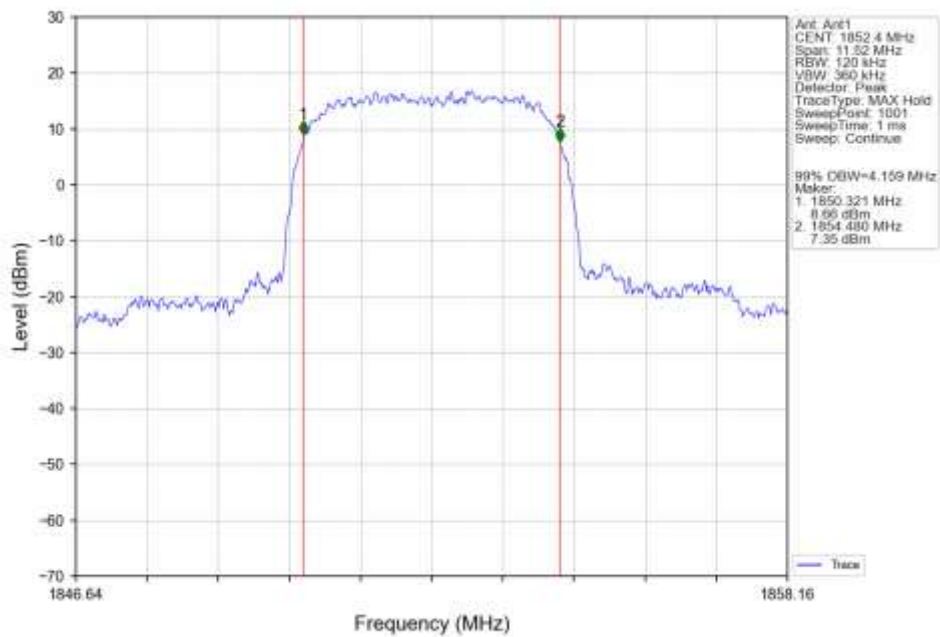
4.2.1 Band2_OBW



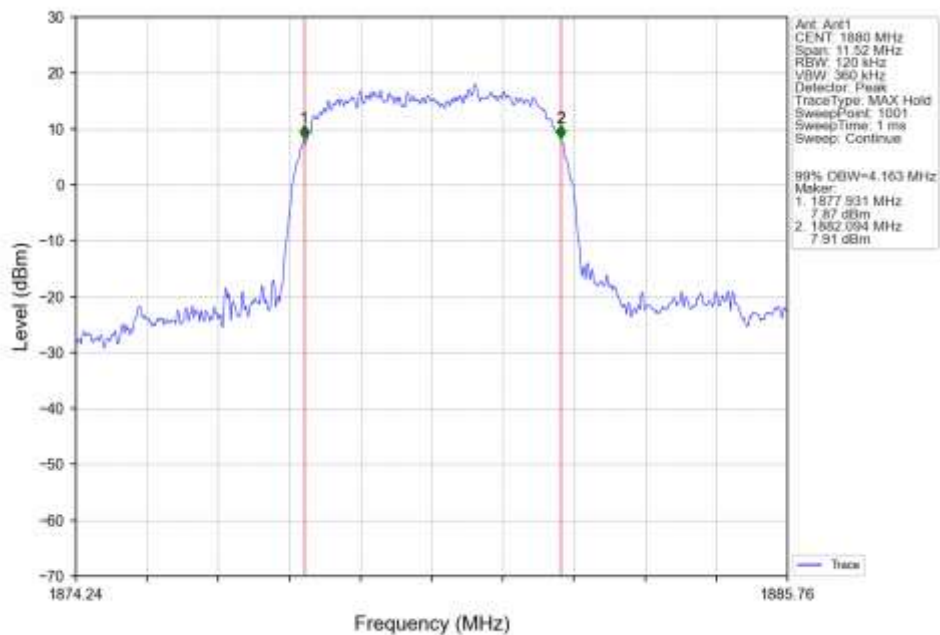
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTV



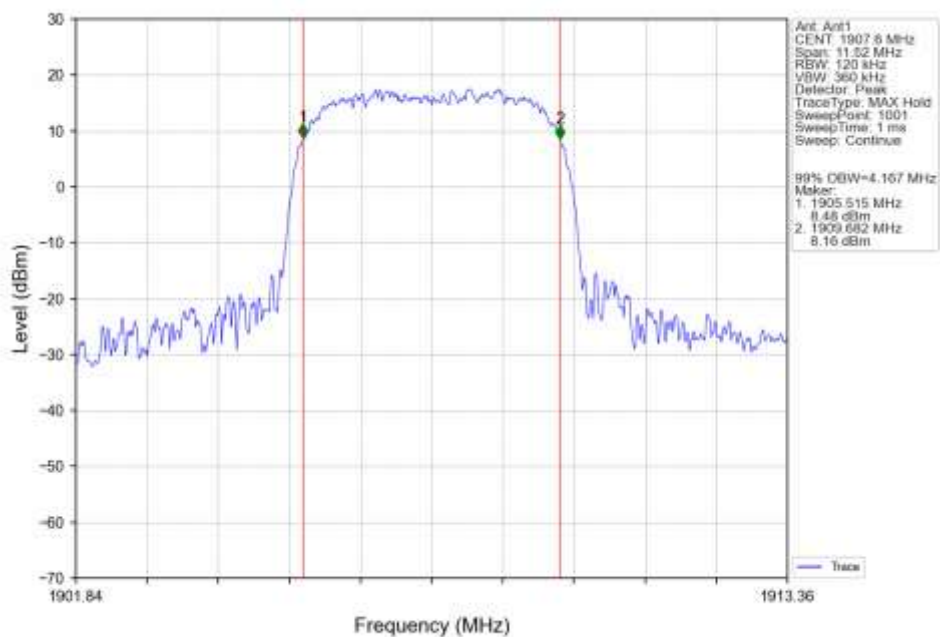
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTV



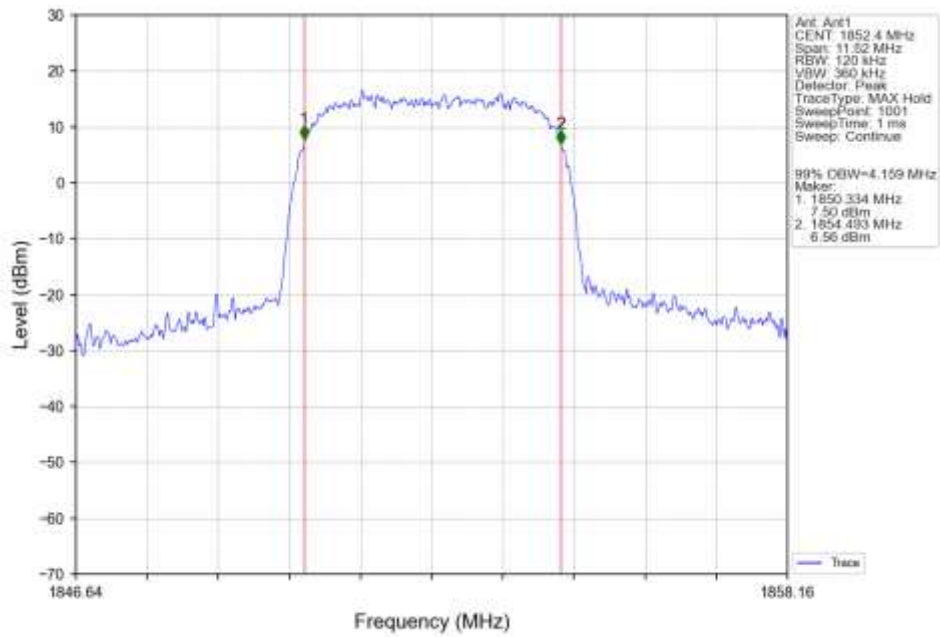
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



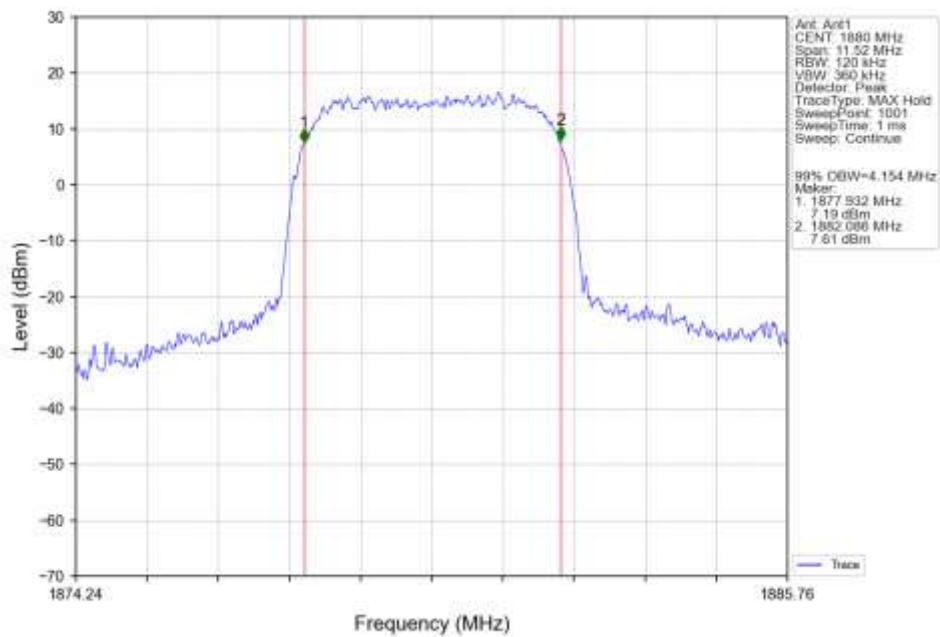
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTN



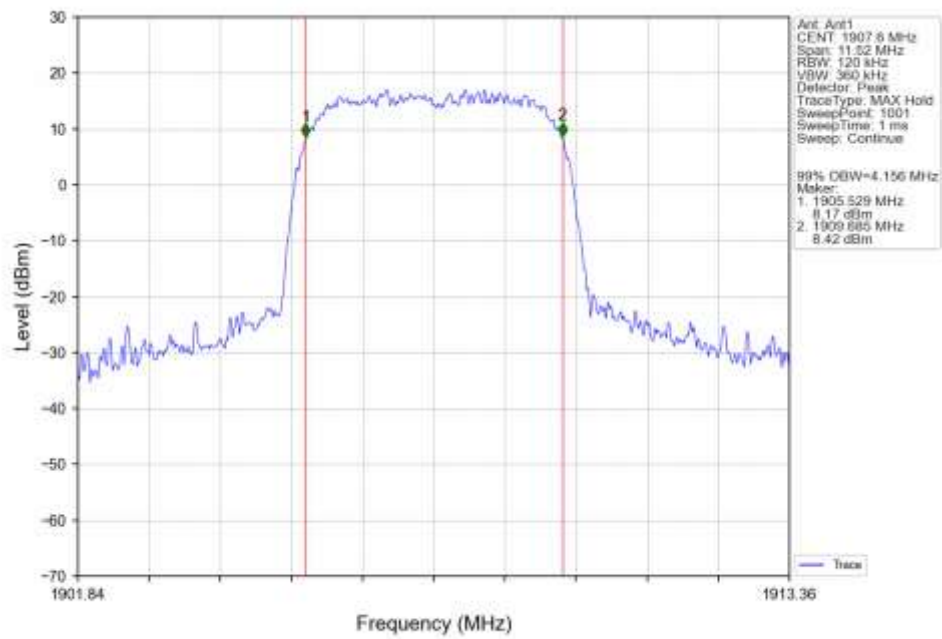
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTV



Band2 HSUPA MCH 1880MHz Subtest 1 NTV

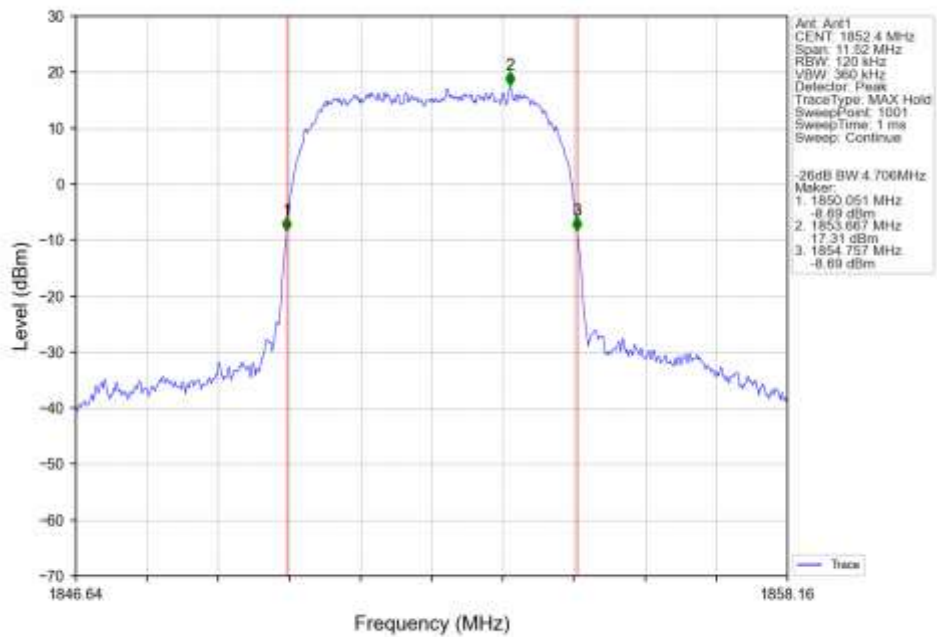


Band2 HSUPA HCH 1907.6MHz Subtest 1 NTN

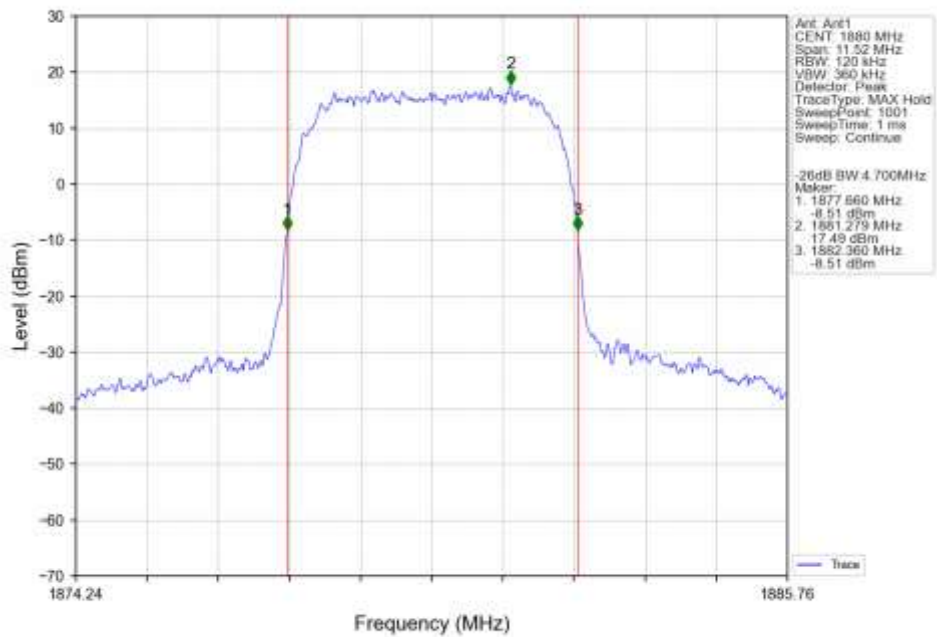


4.2.2 Band2_XDB

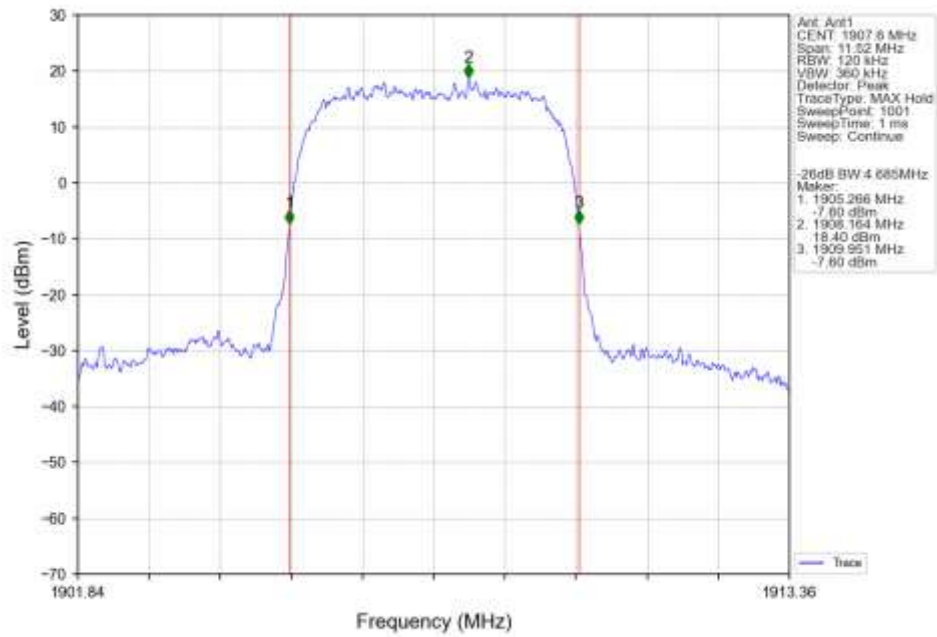
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



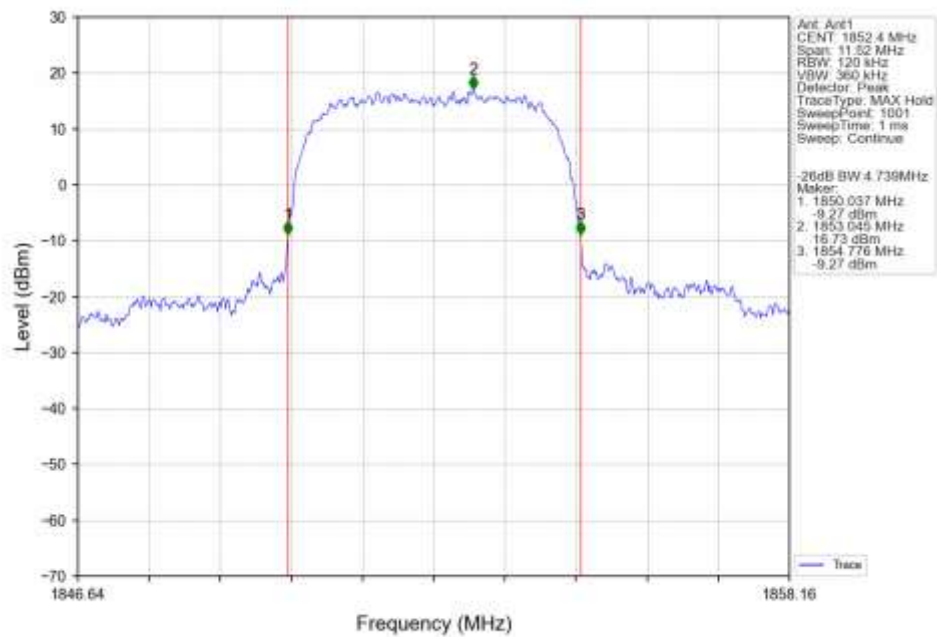
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



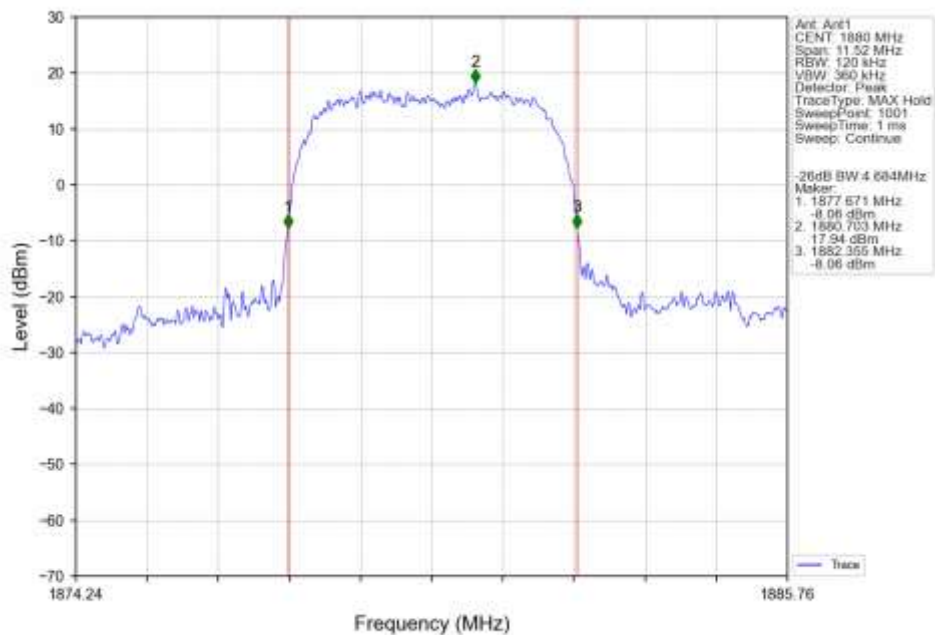
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



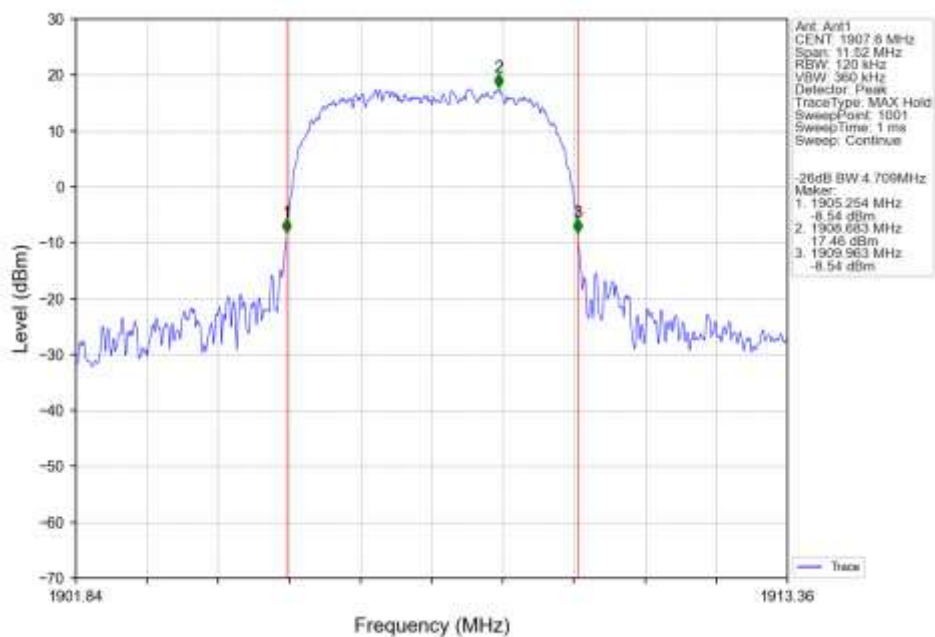
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



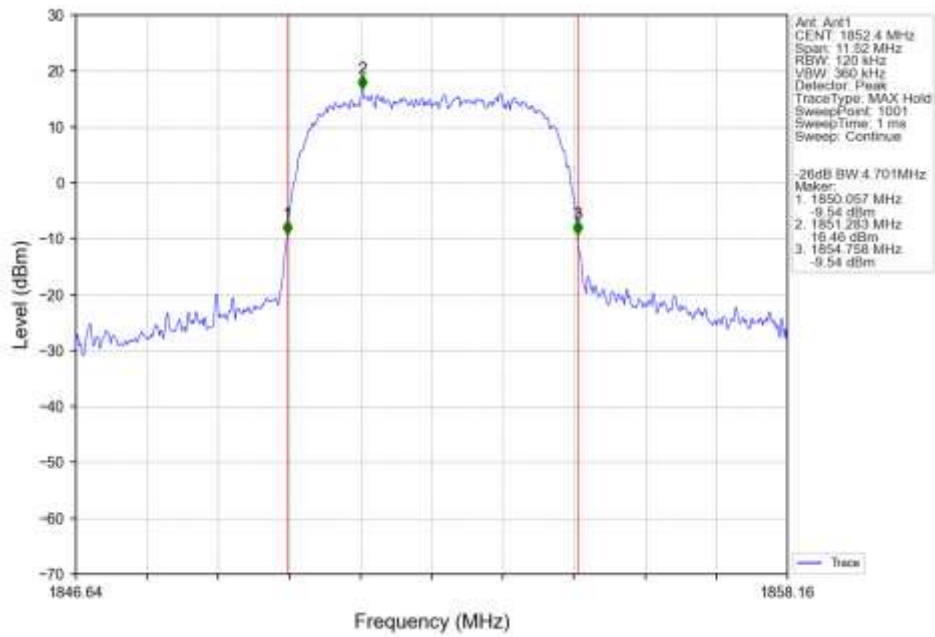
Band2 HSDPA MCH 1880MHz Subtest 1 NTN



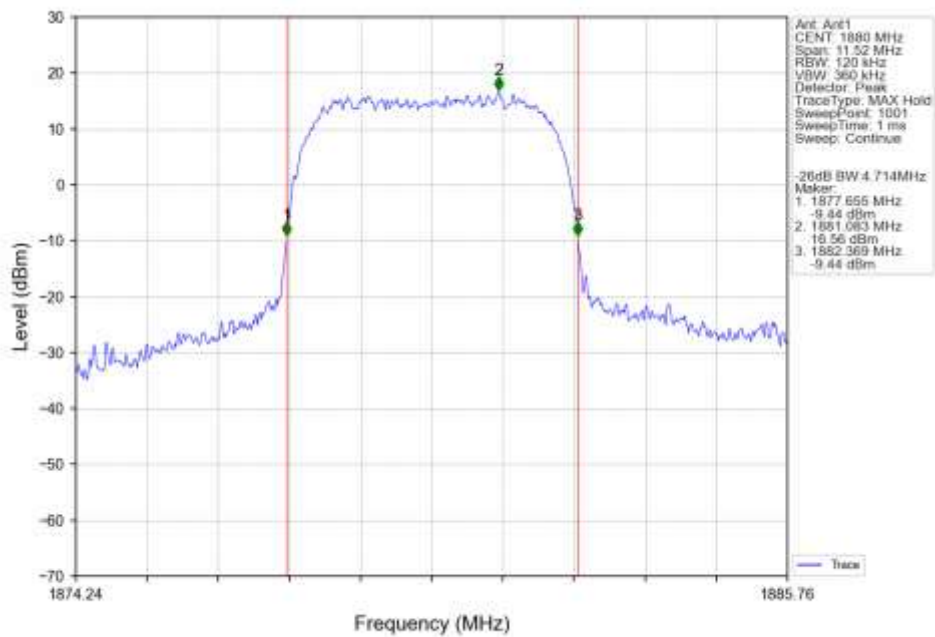
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTN



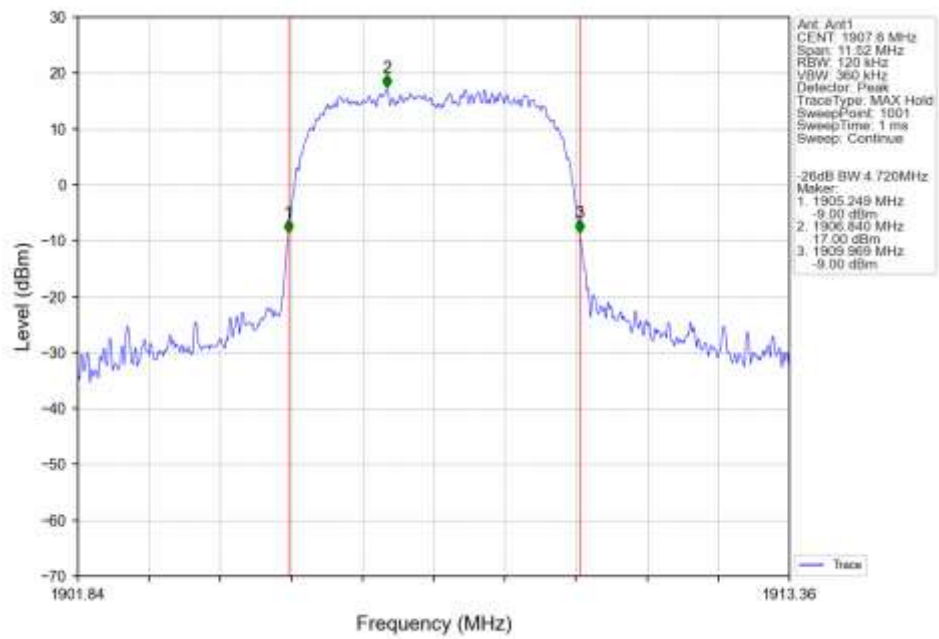
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTV



Band2 HSUPA MCH 1880MHz Subtest 1 NTV



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



5. Peak-Average Ratio

5.1 Test Result

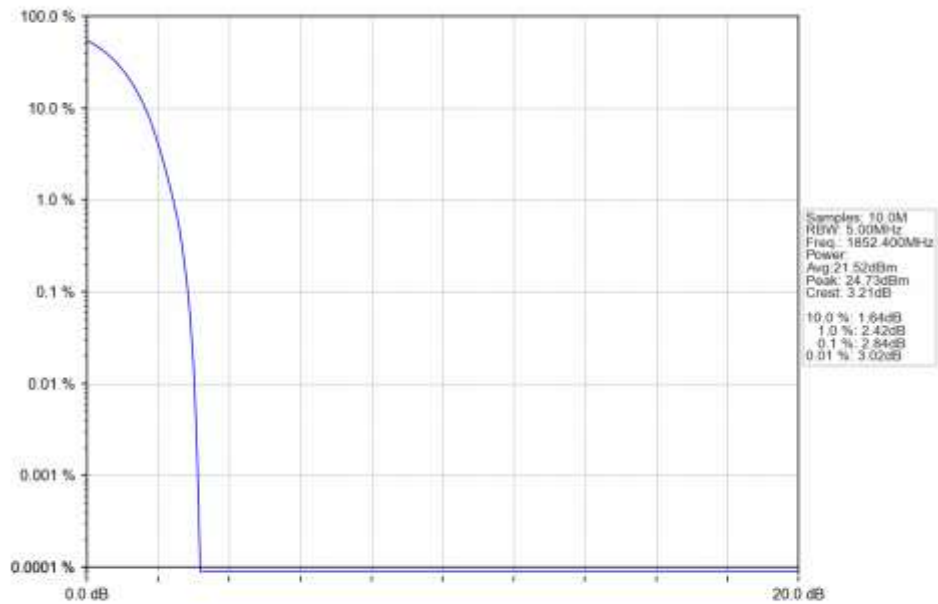
5.1.1 Band2

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.84	<=13	Pass
			1880	2.97	<=13	Pass
			1907.6	3.09	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.28	<=13	Pass
			1880	5.34	<=13	Pass
			1907.6	5.56	<=13	Pass
	HSUPA	Subtest 1	1852.4	6.03	<=13	Pass
			1880	6.54	<=13	Pass
			1907.6	6.73	<=13	Pass

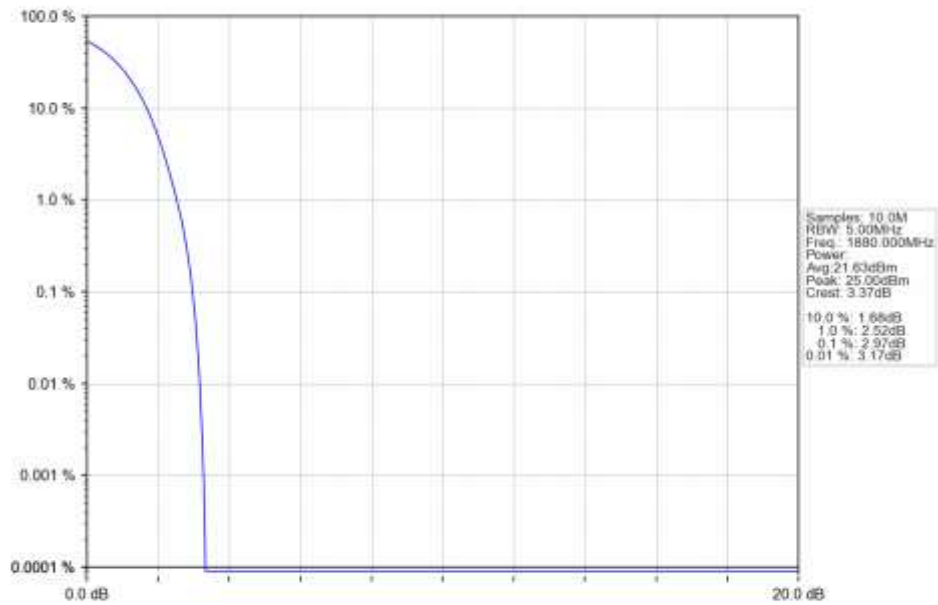
5.2 Test Graph

5.2.1 Band2

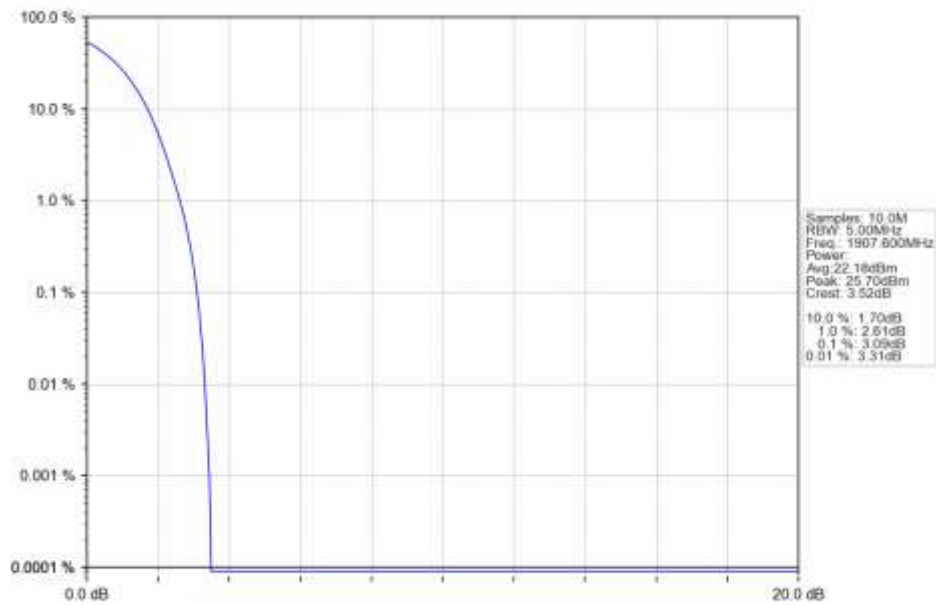
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



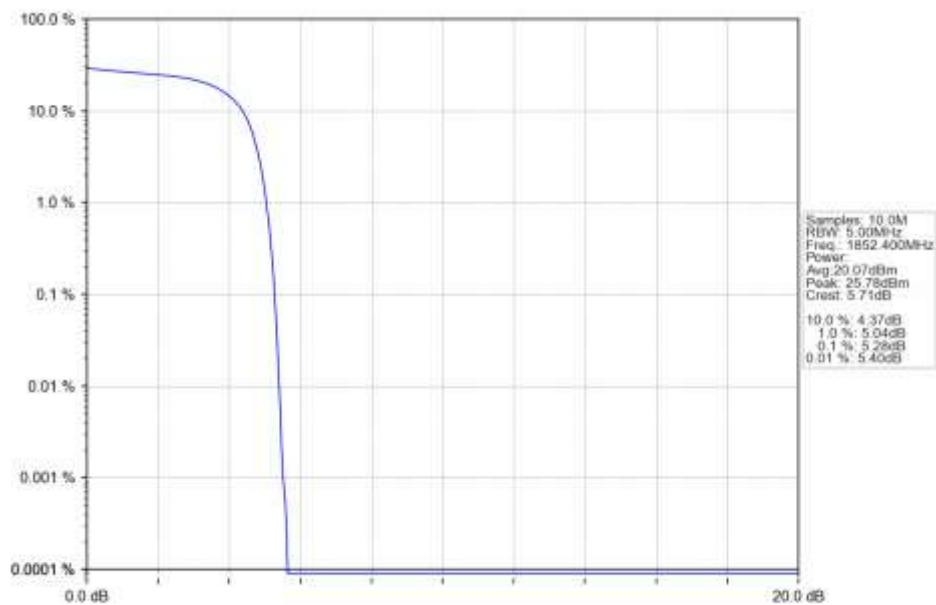
Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



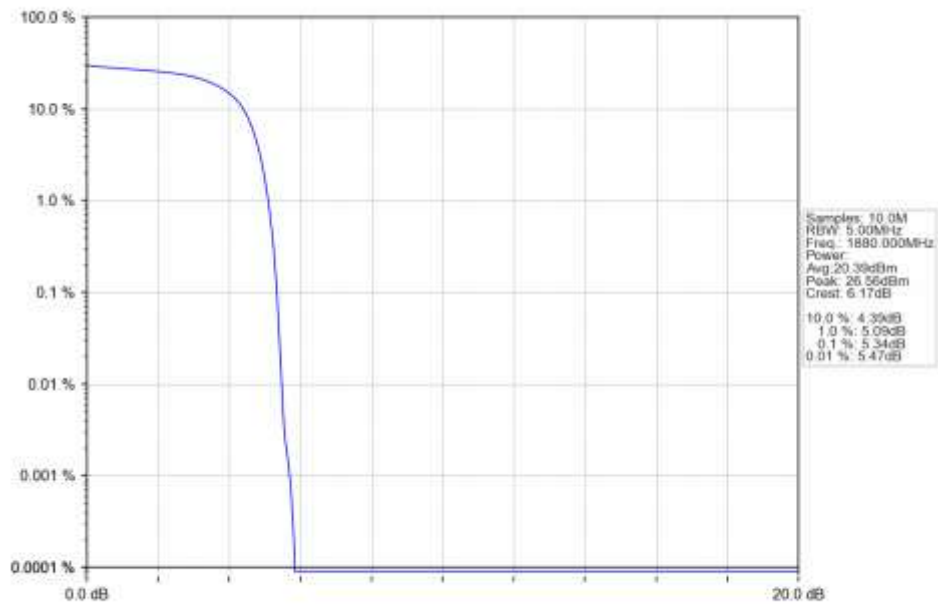
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



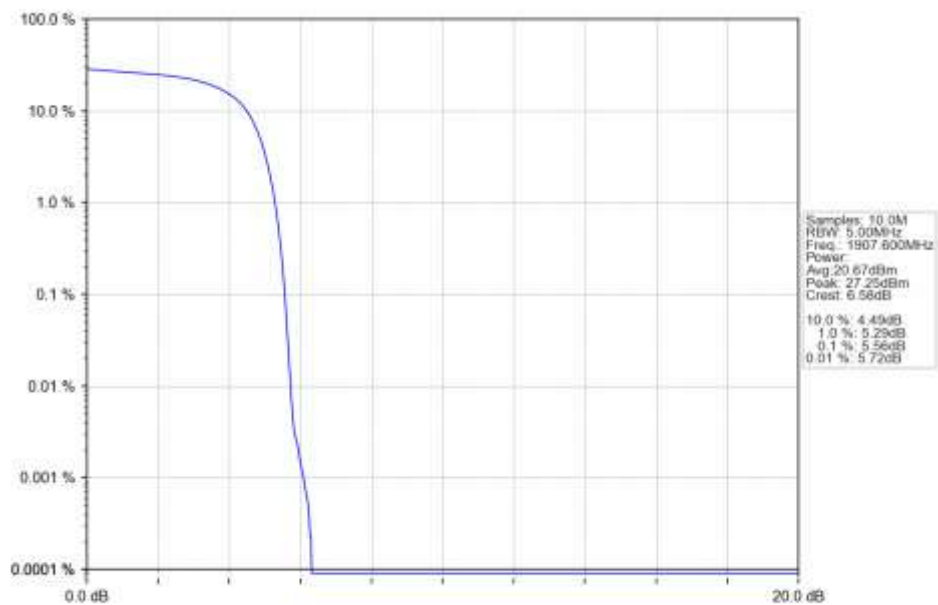
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTN



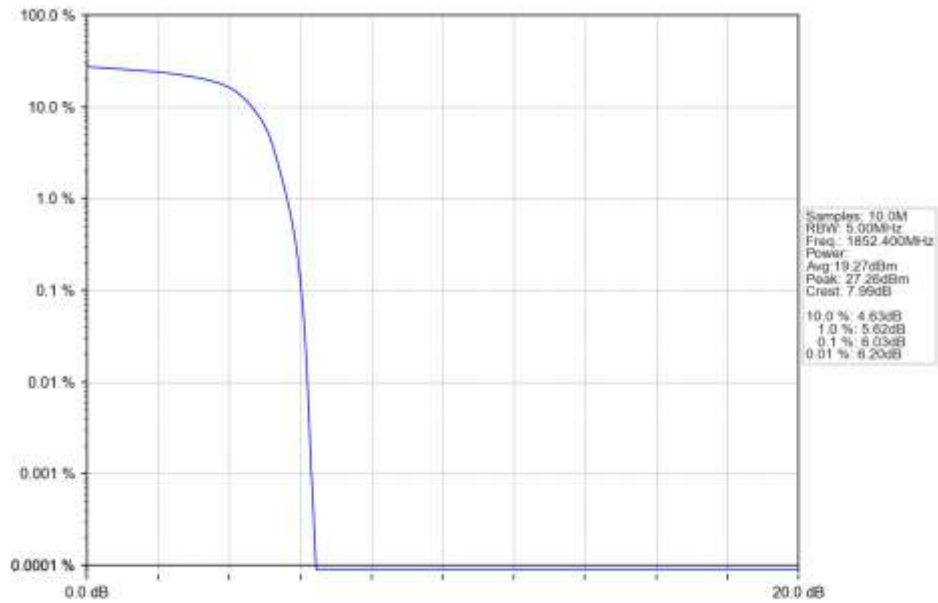
Band2 HSDPA MCH 1880MHz Subtest 1 NTNV



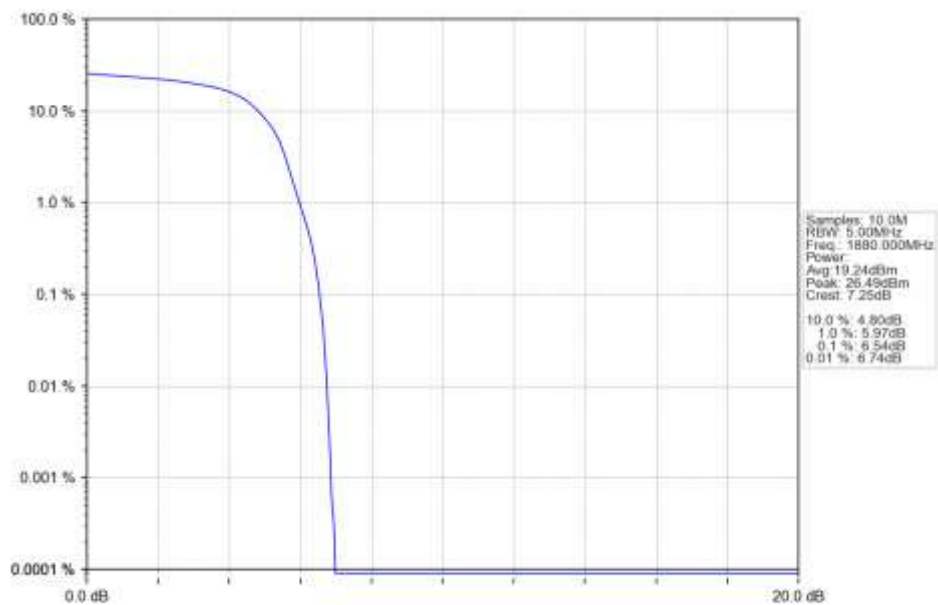
Band2 HSDPA HCH 1907.6MHz Subtest 1 NTNV



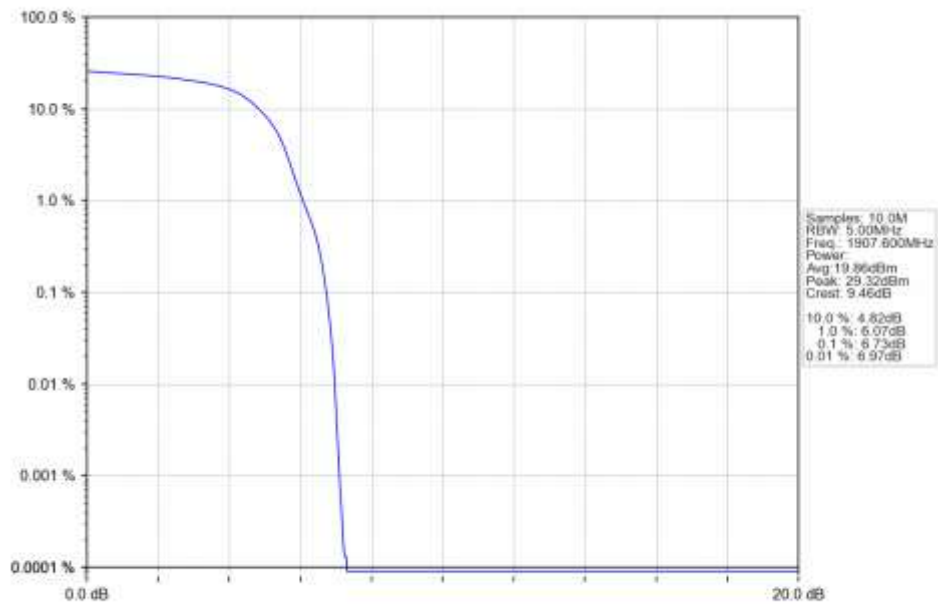
Band2 HSUPA LCH 1852.4MHz Subtest 1 NTN



Band2 HSUPA MCH 1880MHz Subtest 1 NTN



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



6. Spurious Emission

6.1 Test Result

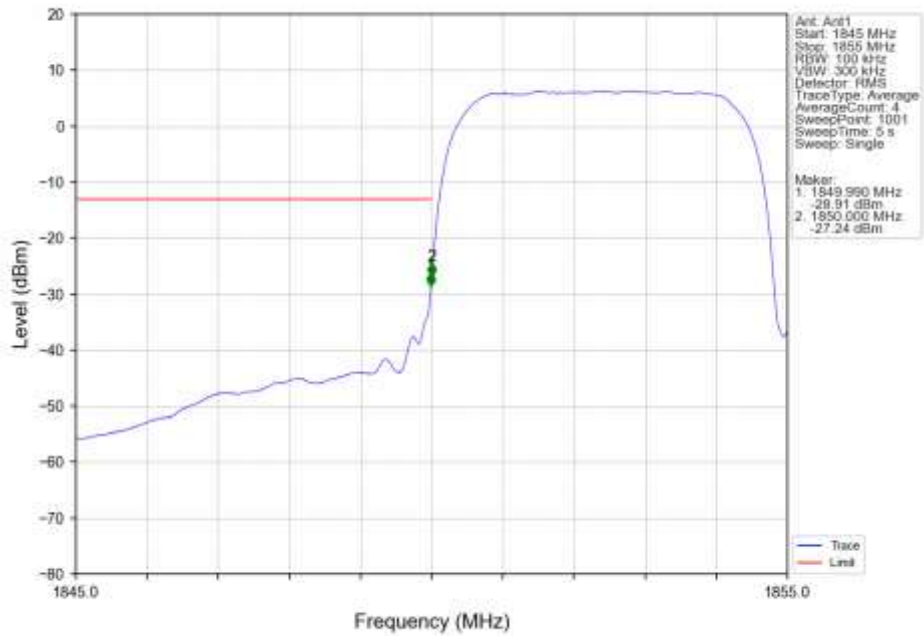
6.1.1 Band2

Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass

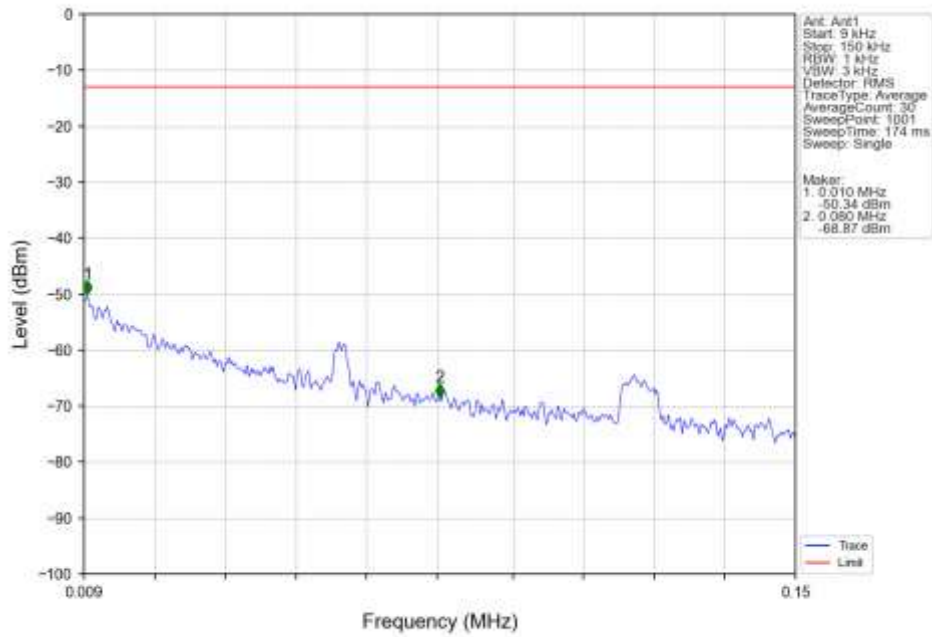
6.2 Test Graph

6.2.1 Band2

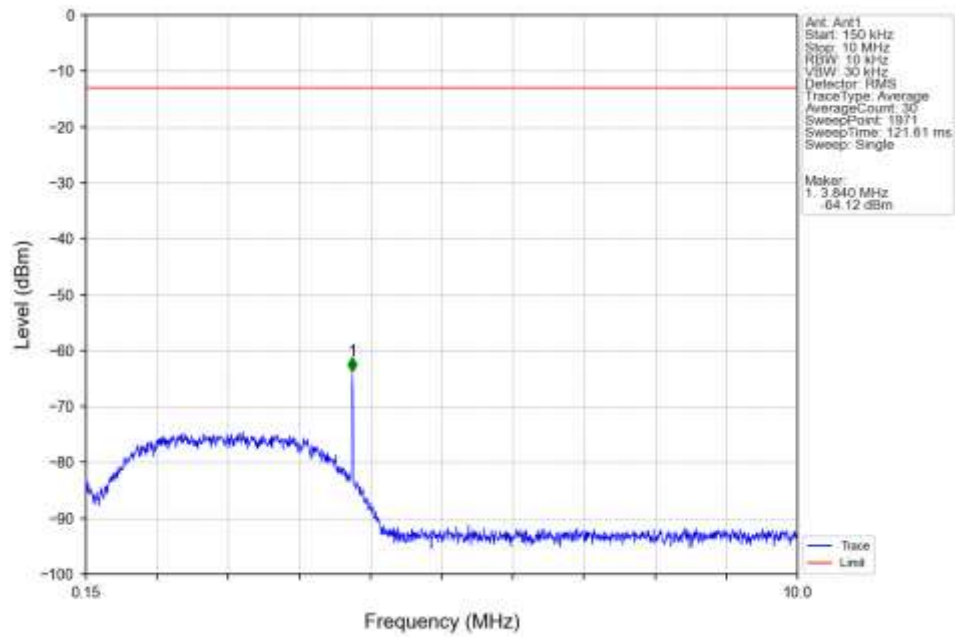
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



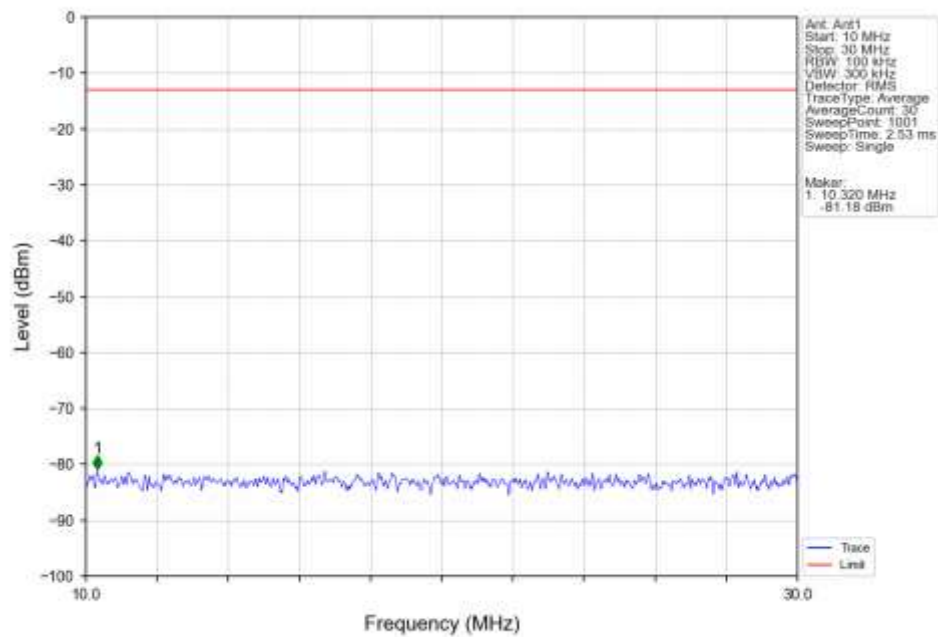
Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



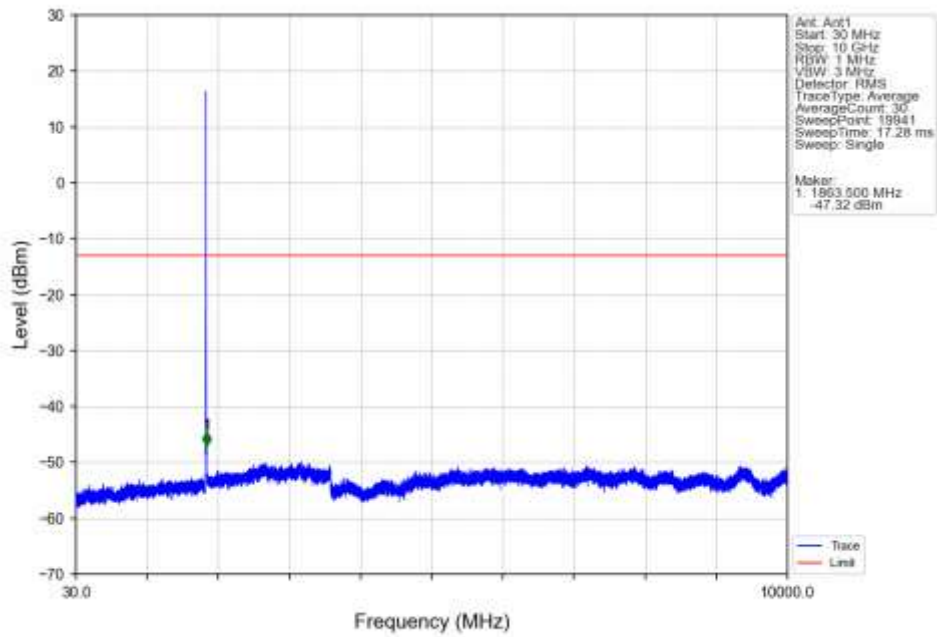
Band2 RMC LCH 1852.4MHz 12.2kbps RMC NTN



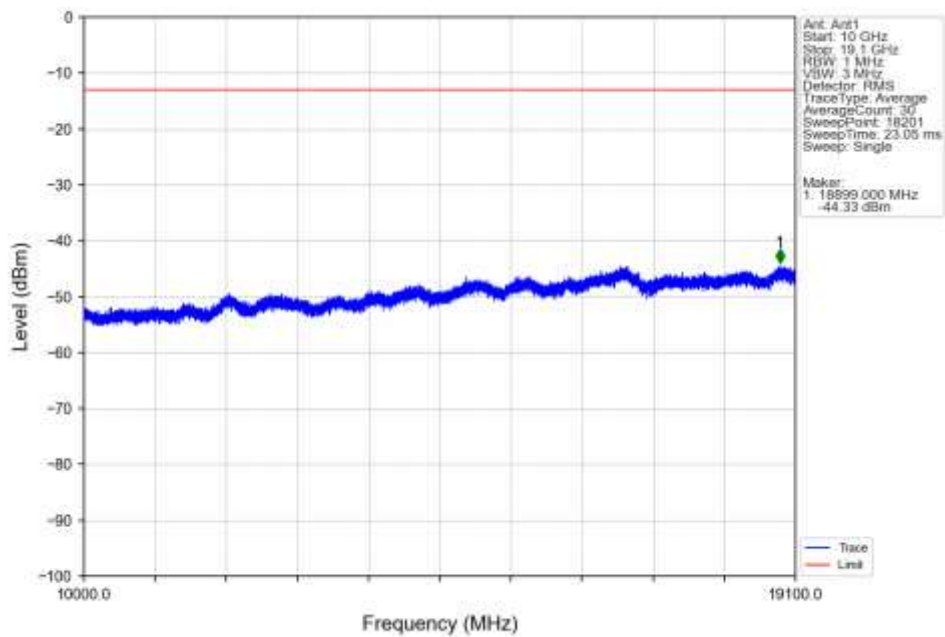
Band2 RMC LCH 1852.4MHz 12.2kbps RMC NTN



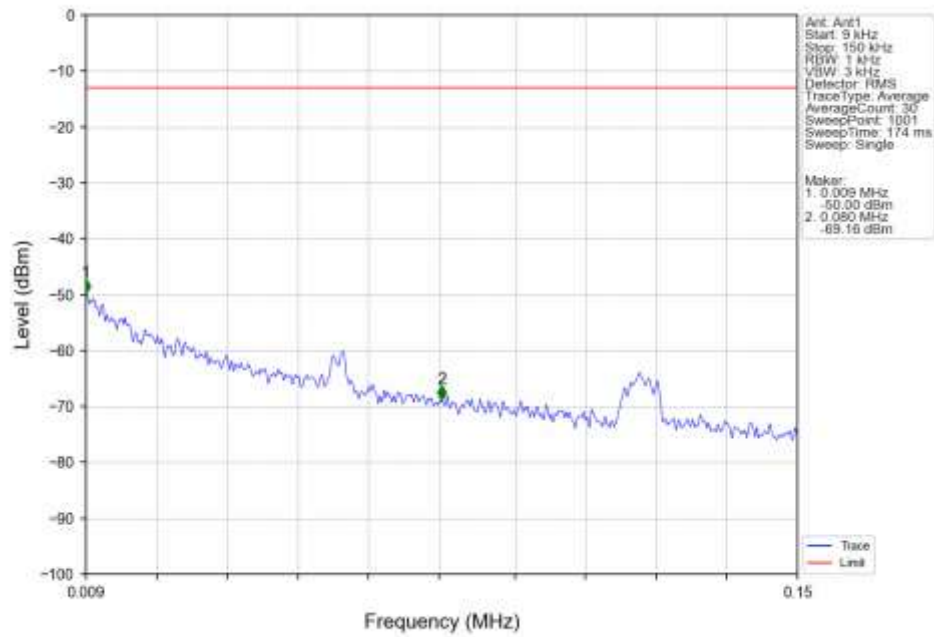
Band2 RMC LCH 1852.4MHz 12.2kbps RMC NTN



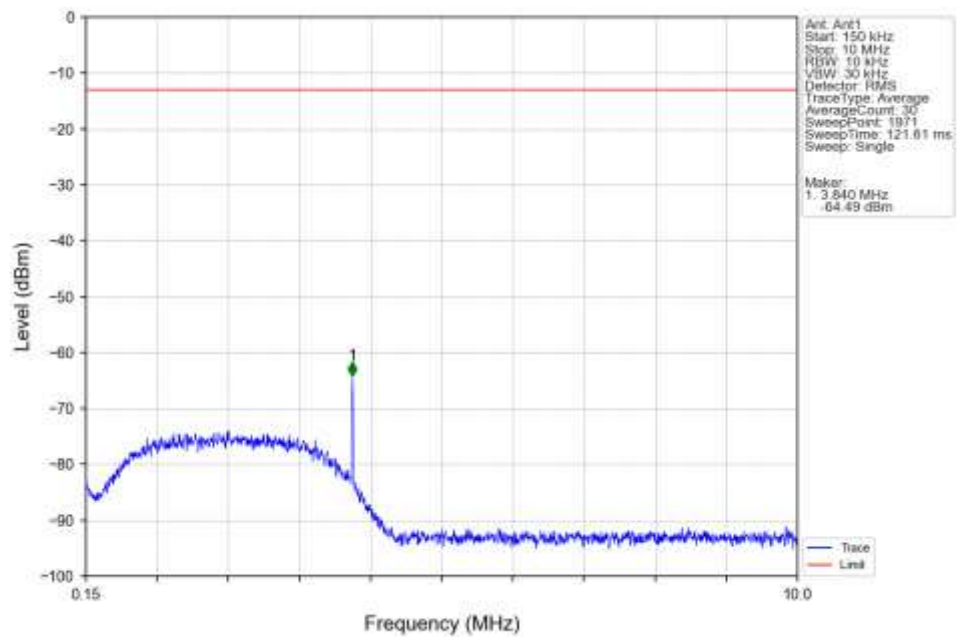
Band2 RMC LCH 1852.4MHz 12.2kbps RMC NTN



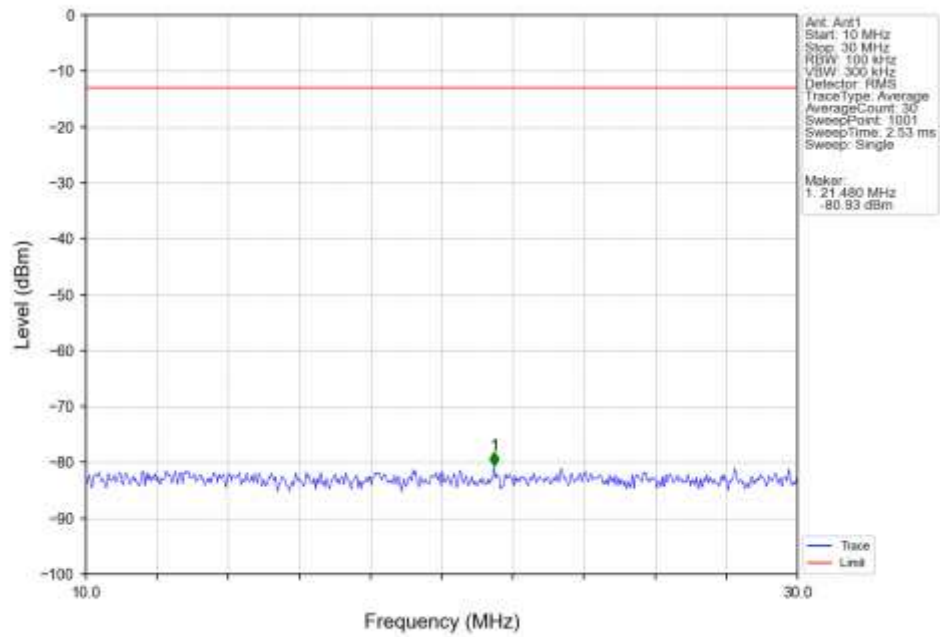
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



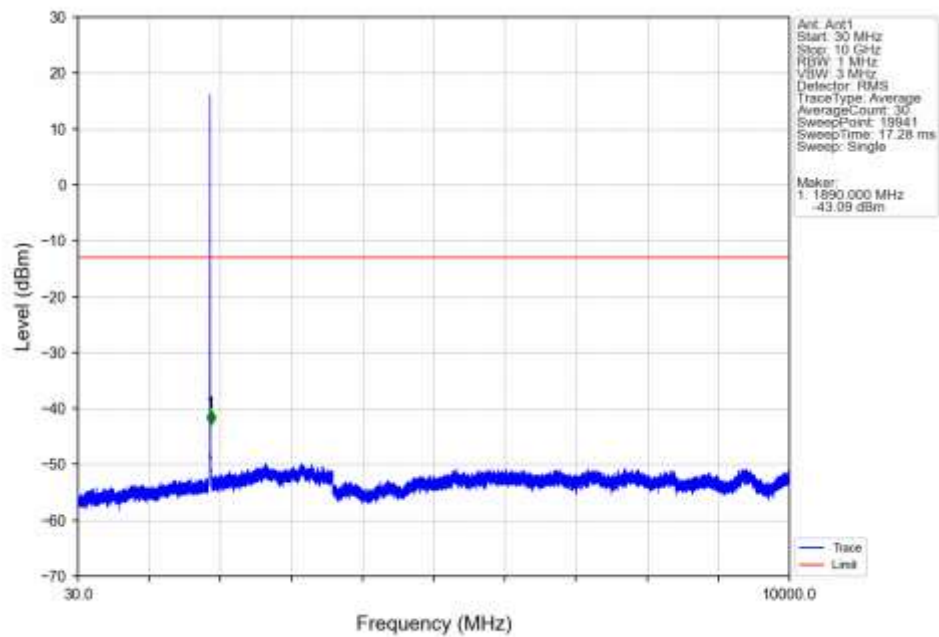
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



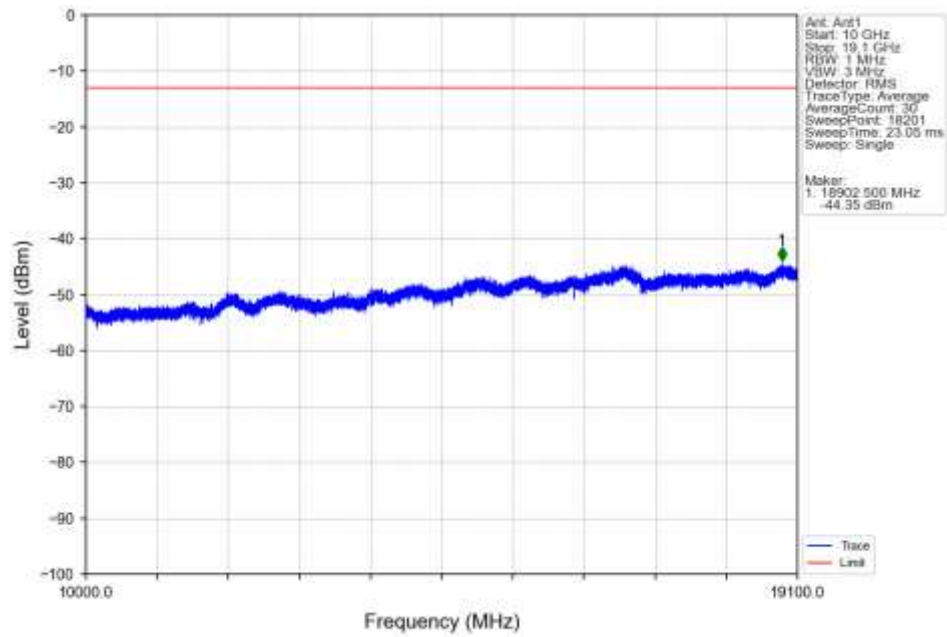
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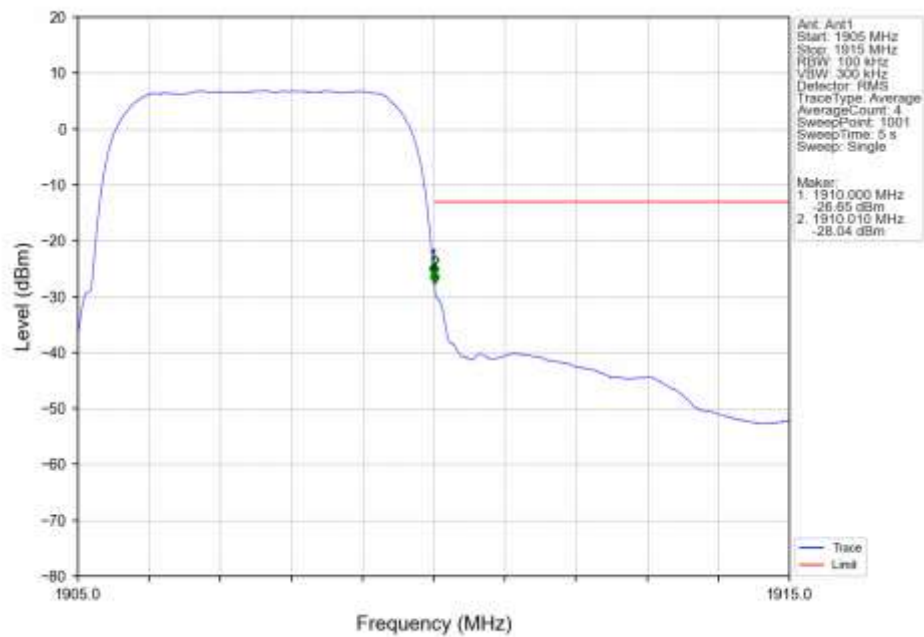
Band2_RMC_MCH_1880MHz_12.2kbps_RMC_NTNV



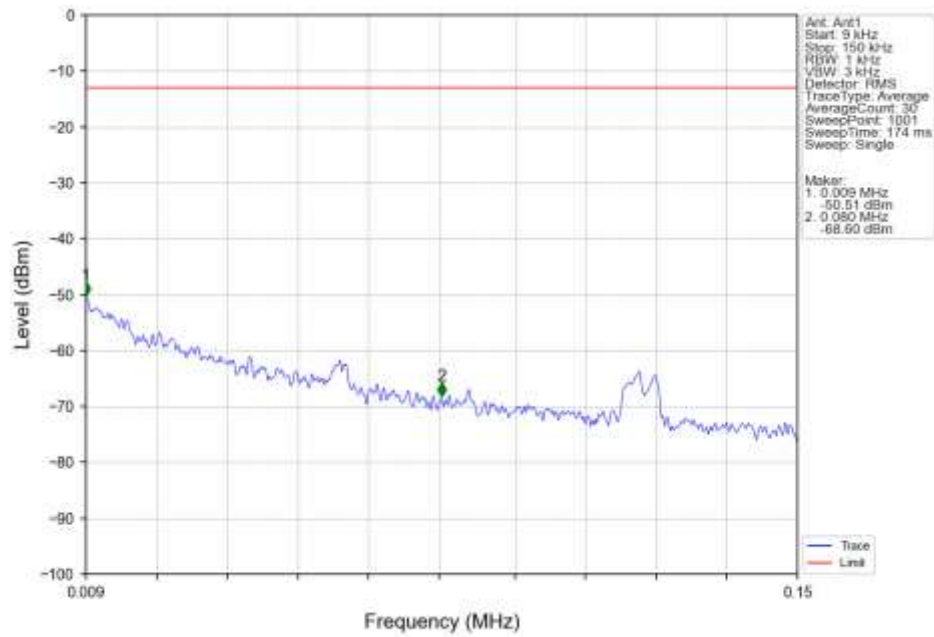
Band2 RMC MCH 1880MHz 12.2kbps RMC NTN



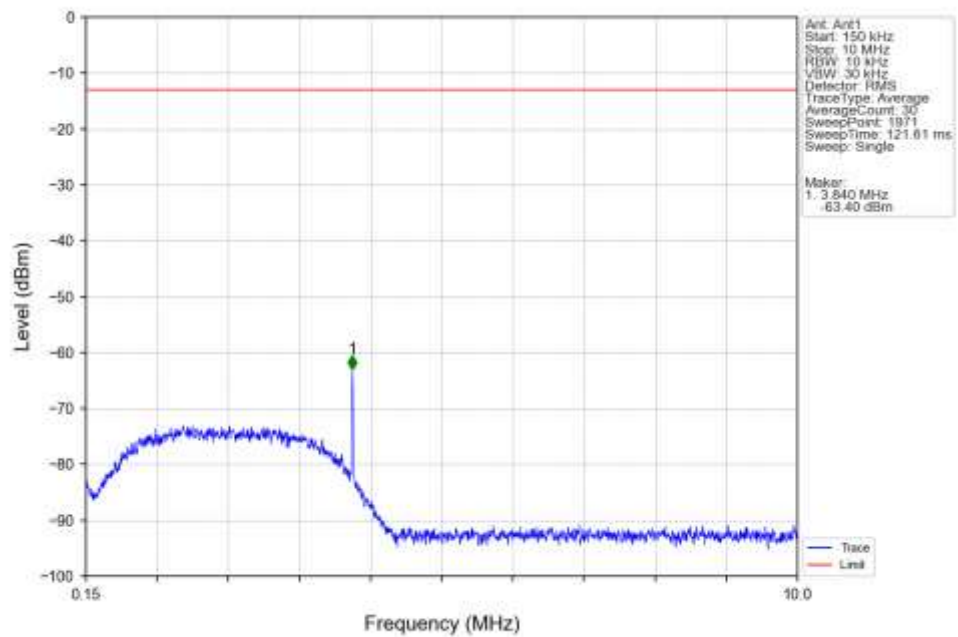
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTN



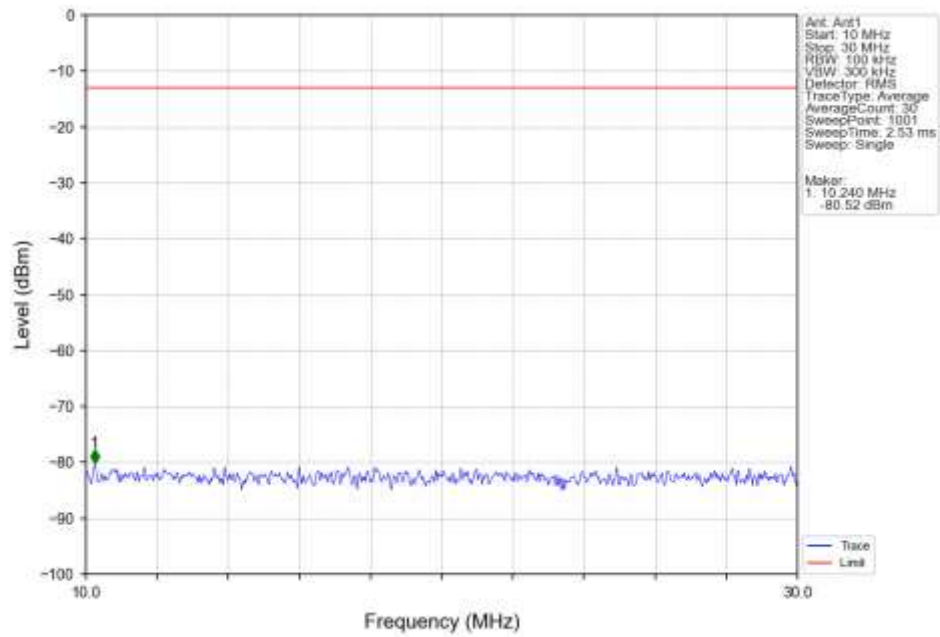
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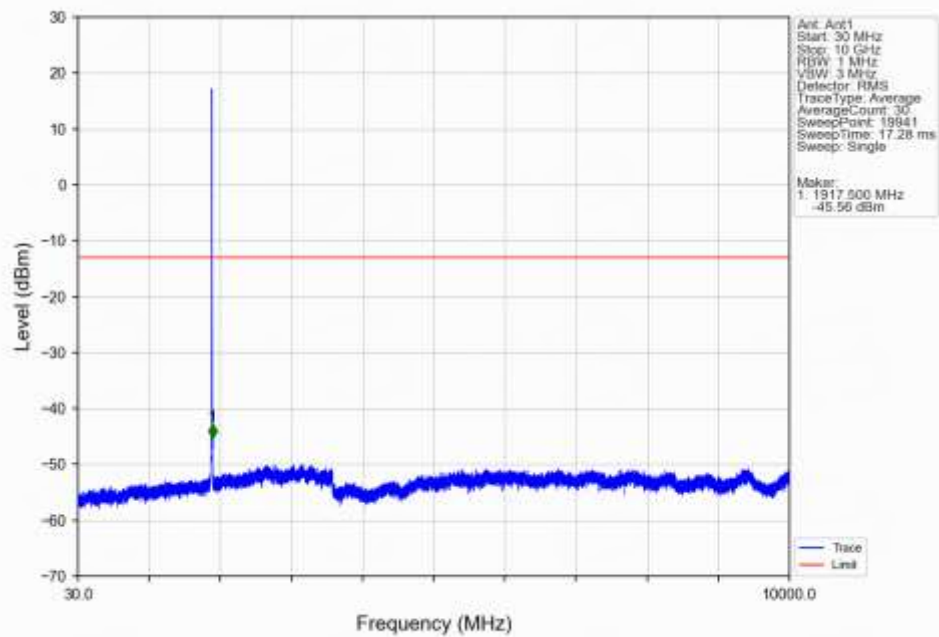
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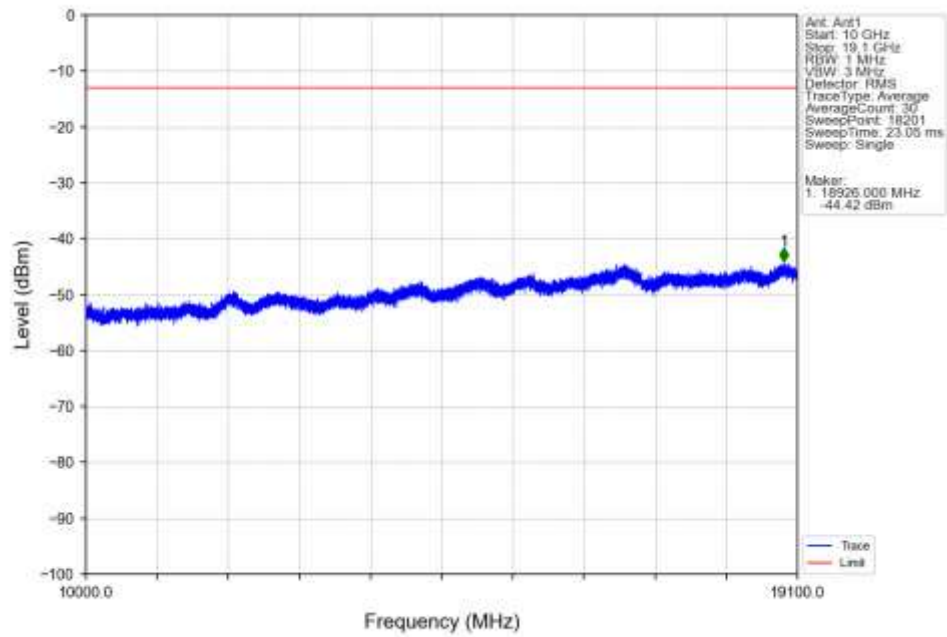
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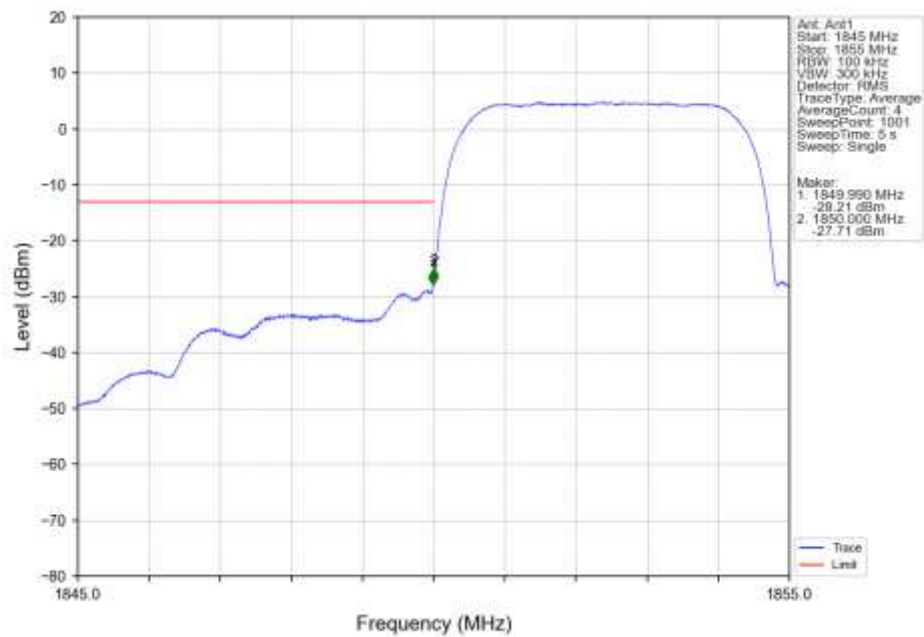
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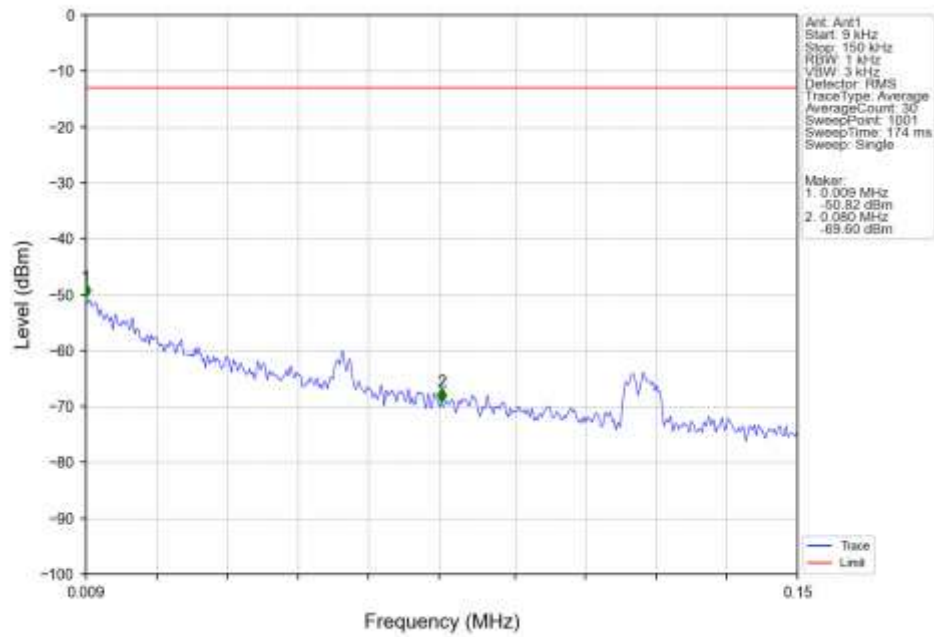
Band2 RMC HCH 1907.6MHz 12.2kbps RMC NTV



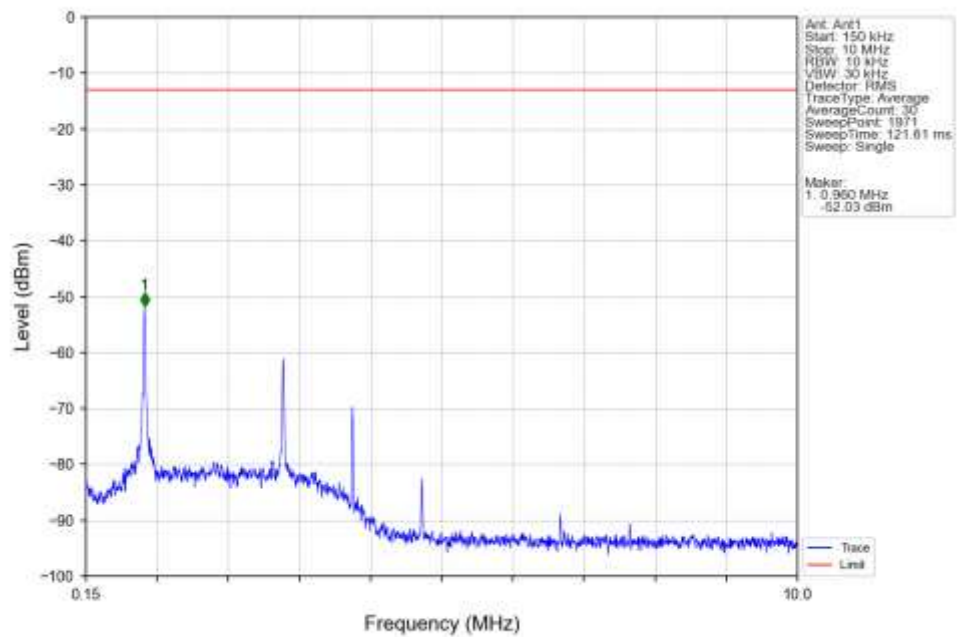
Band2 HSDPA LCH 1852.4MHz Subtest 1 NTV



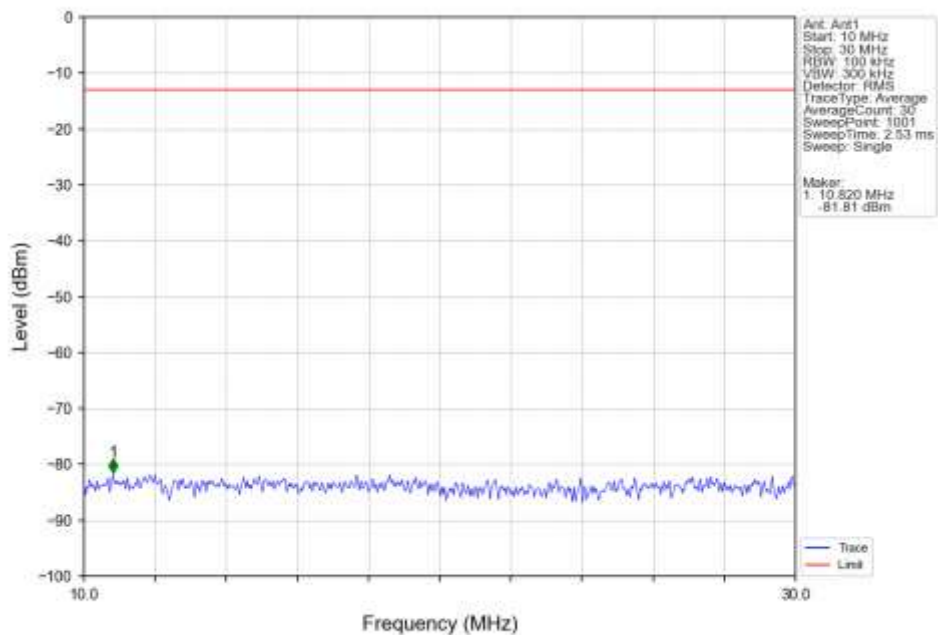
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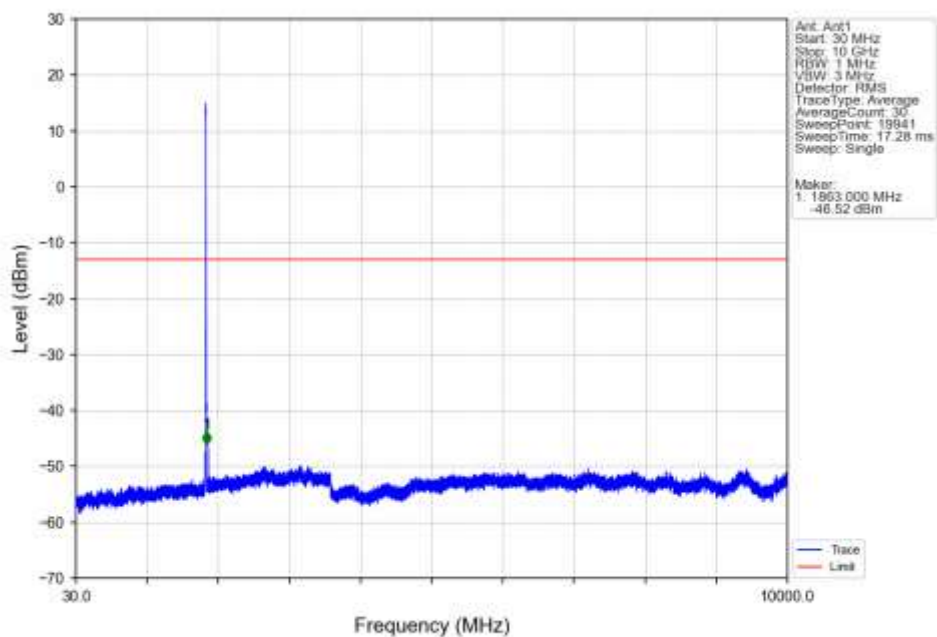
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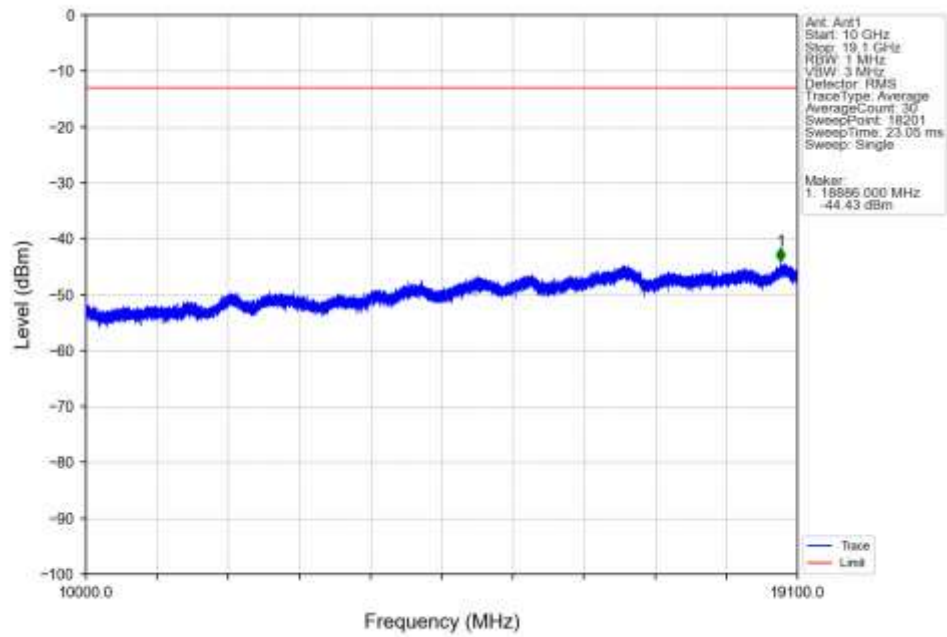
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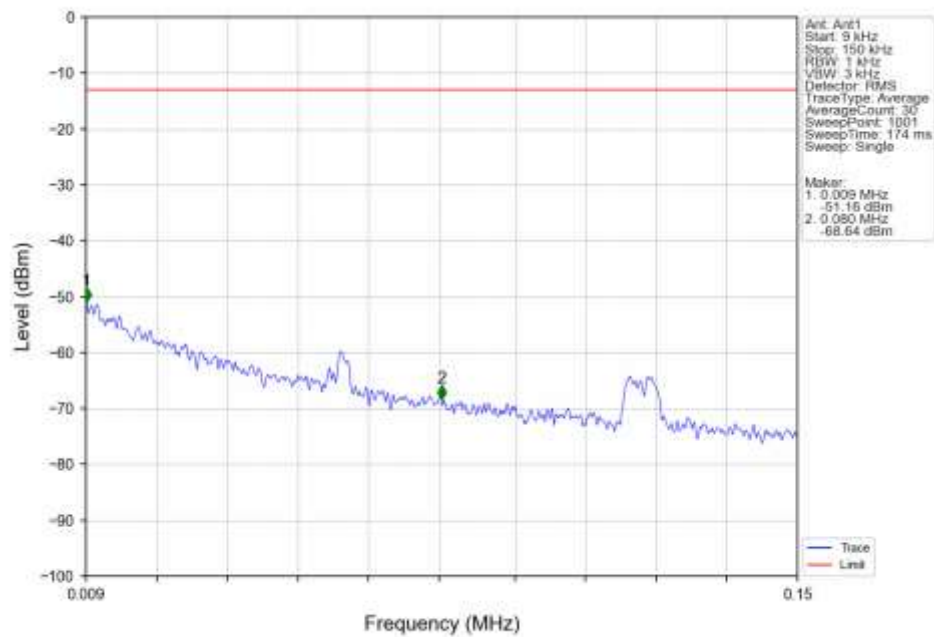
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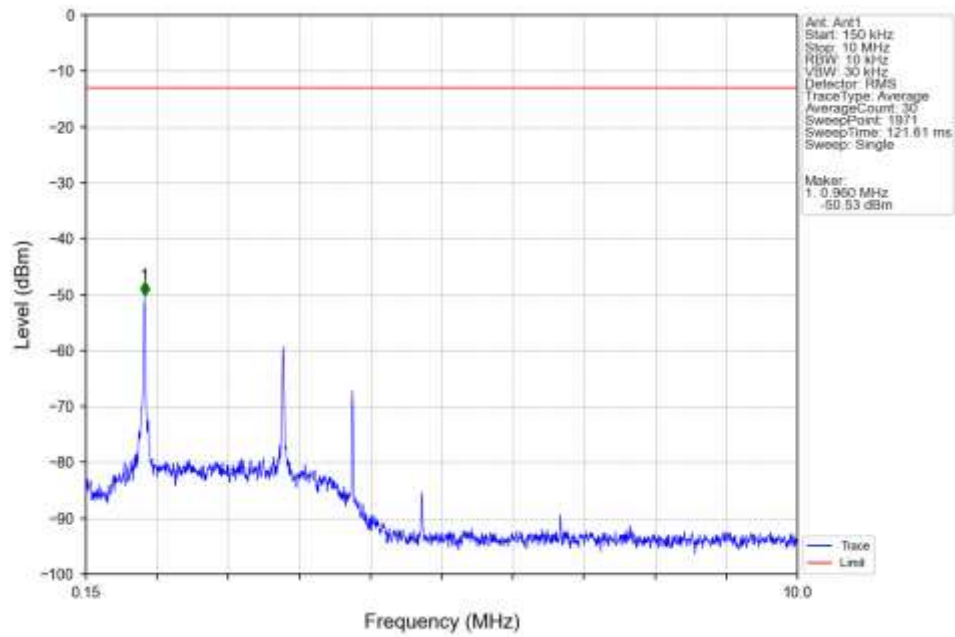
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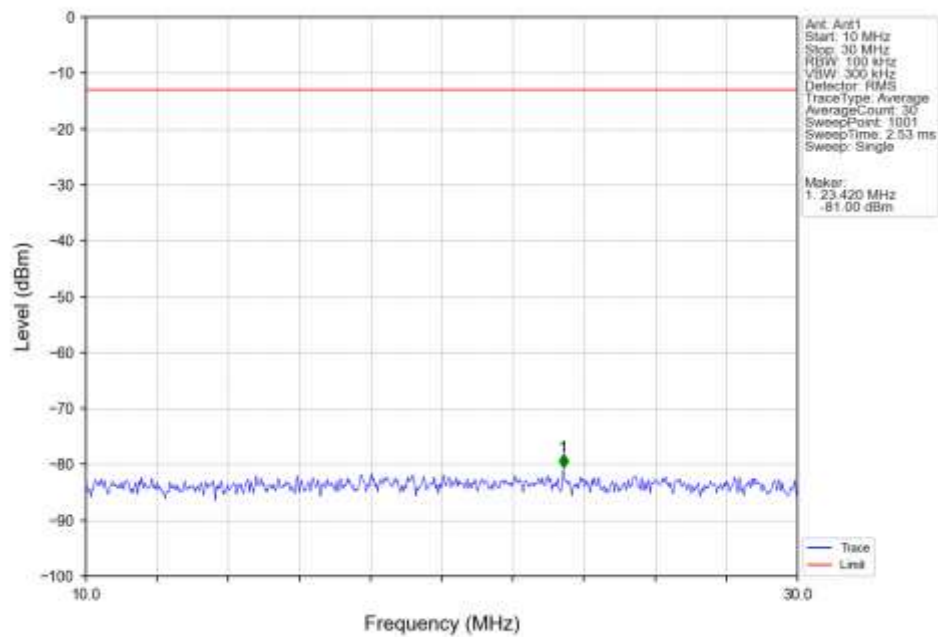
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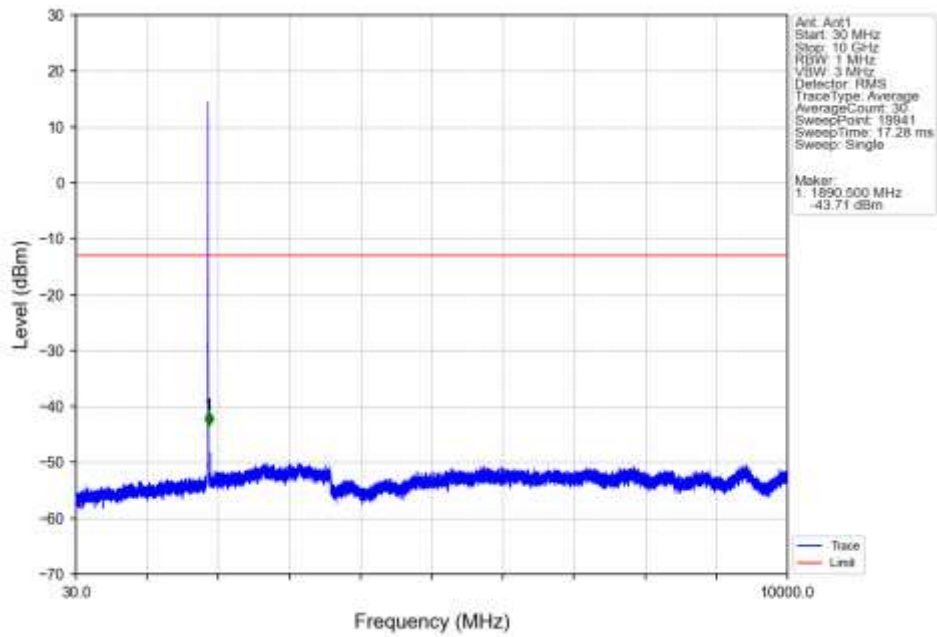
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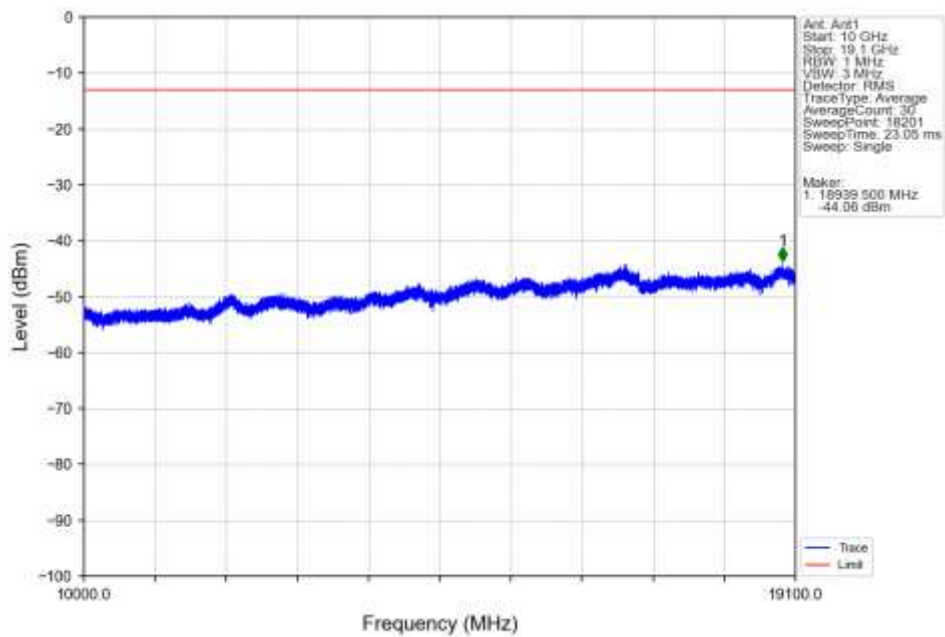
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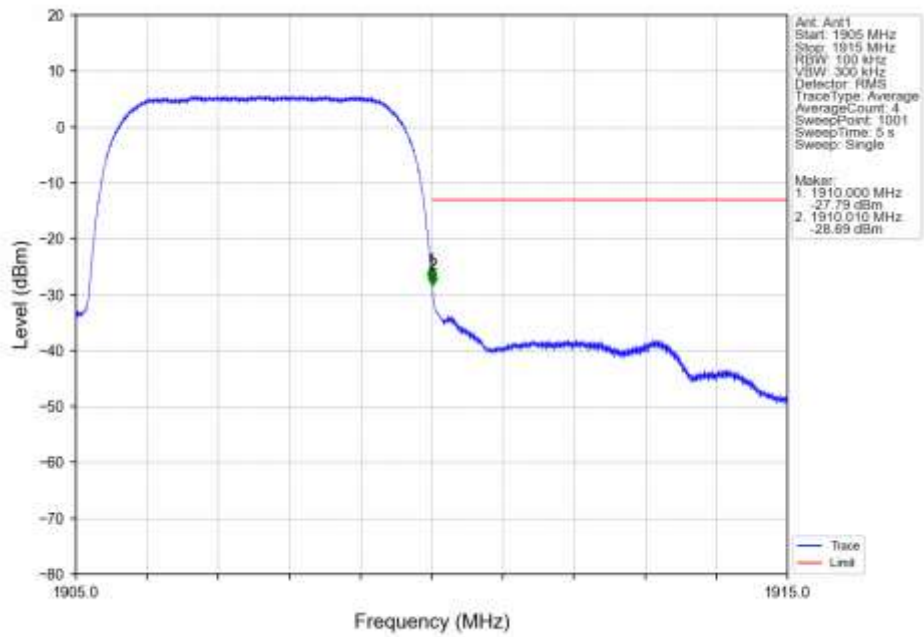
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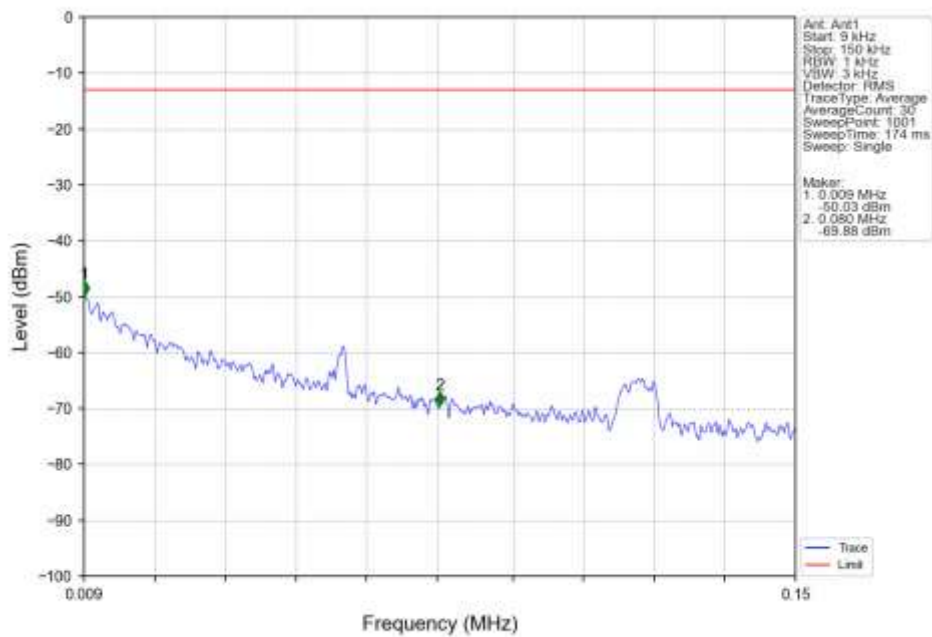
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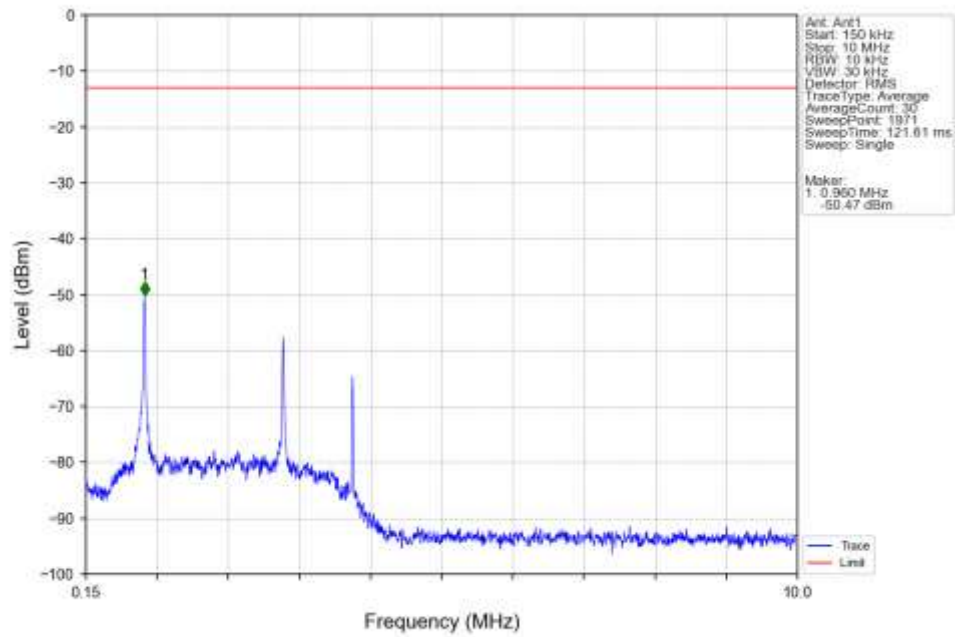
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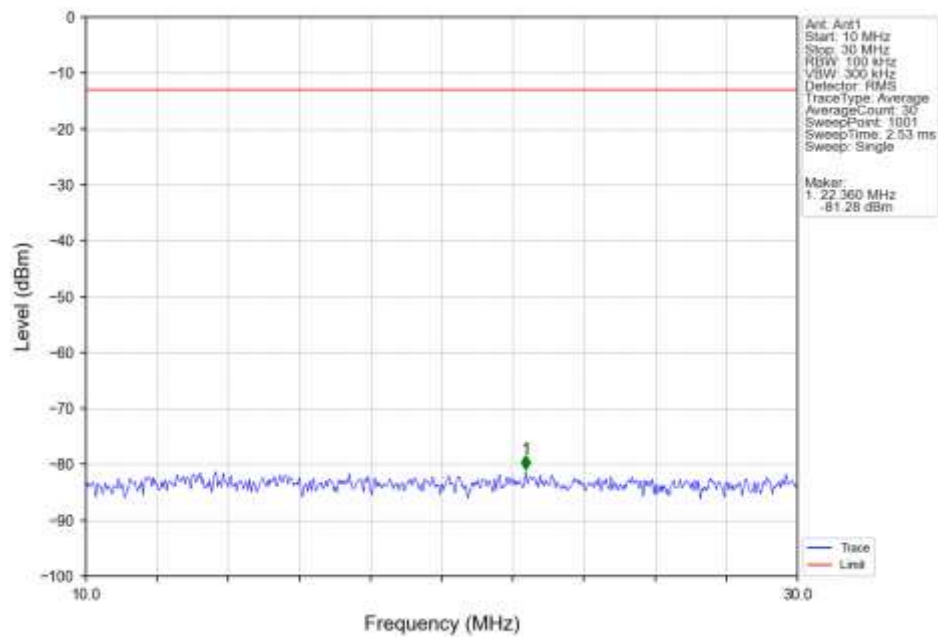
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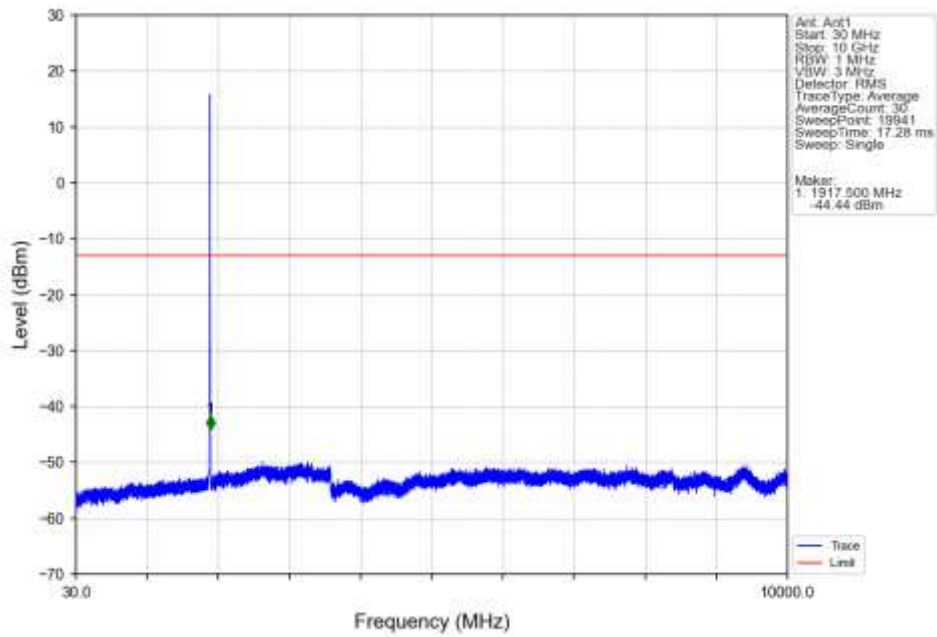
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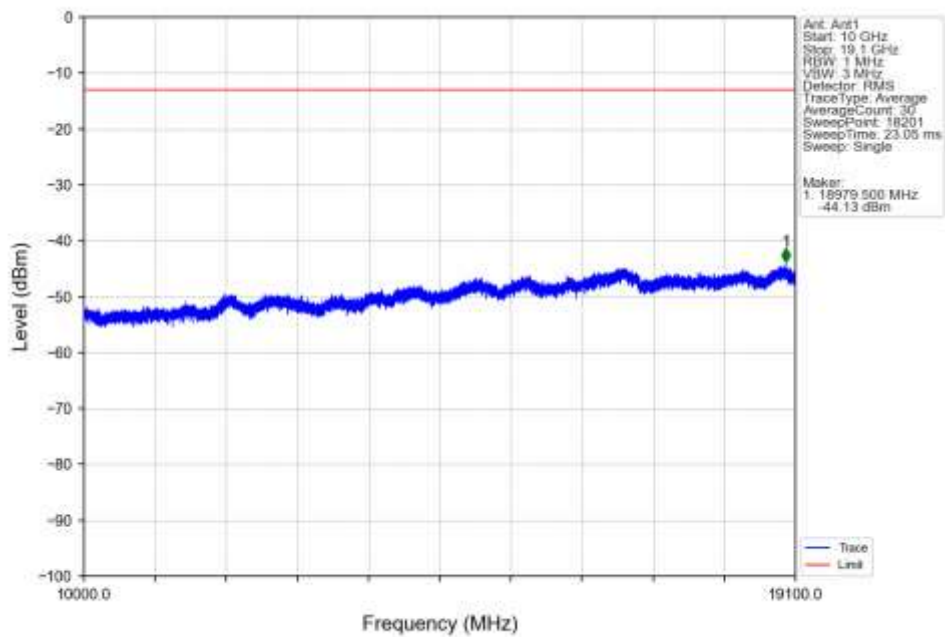
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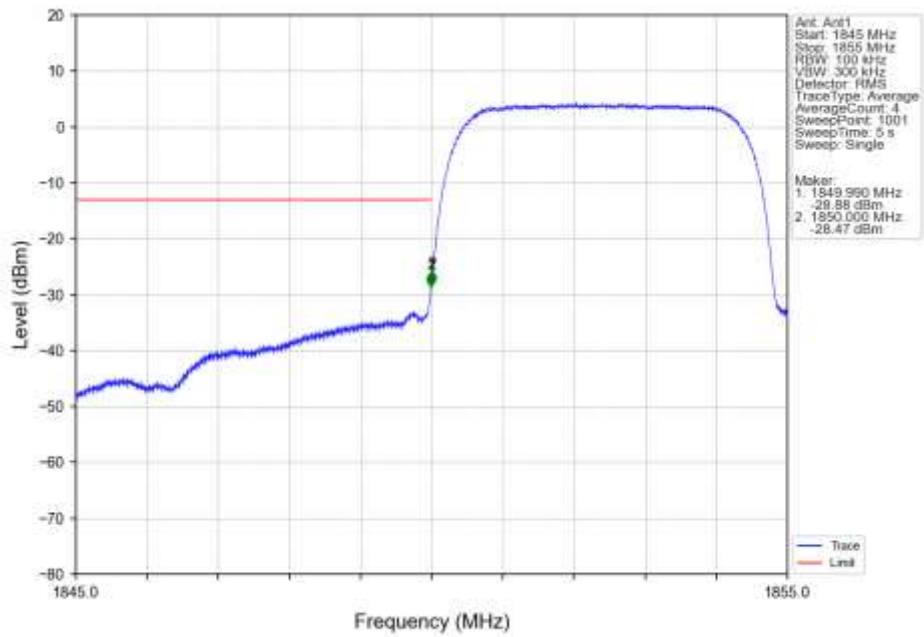
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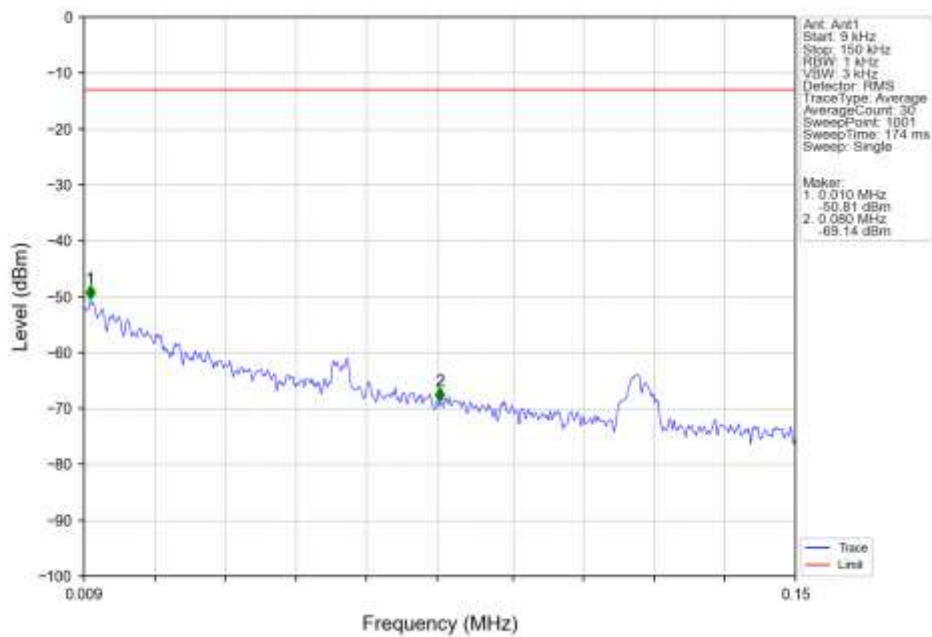
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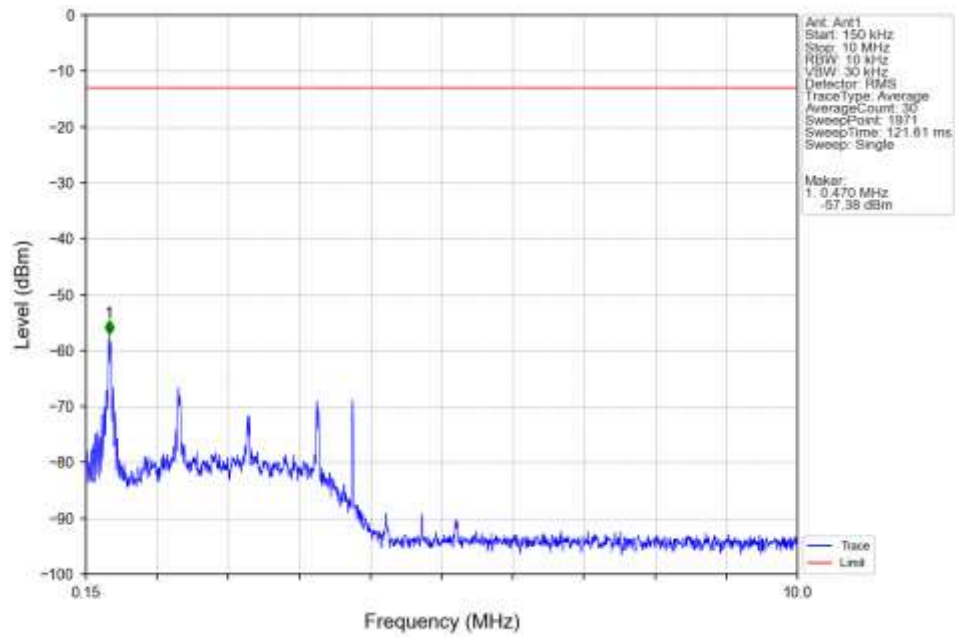
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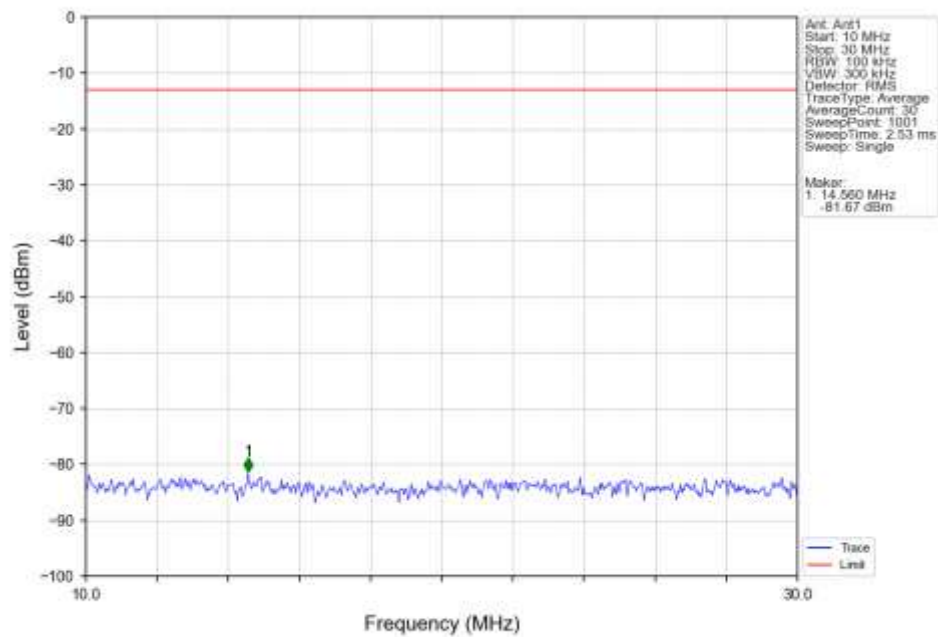
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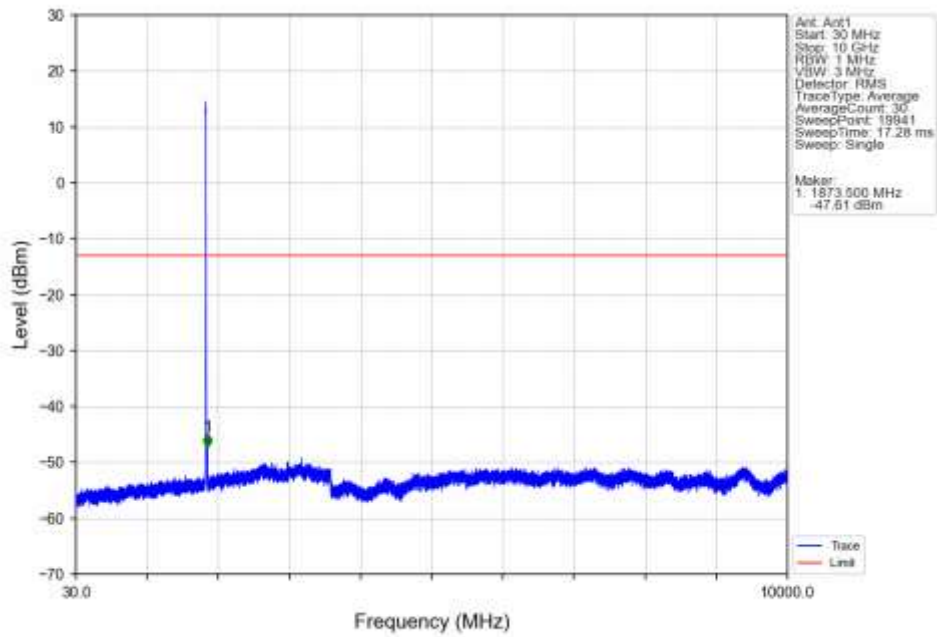
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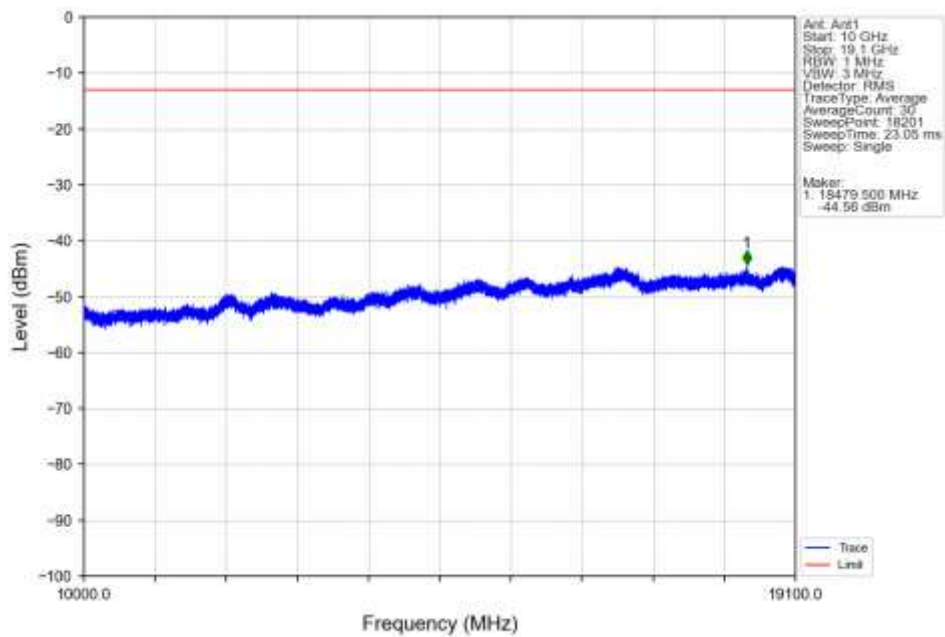
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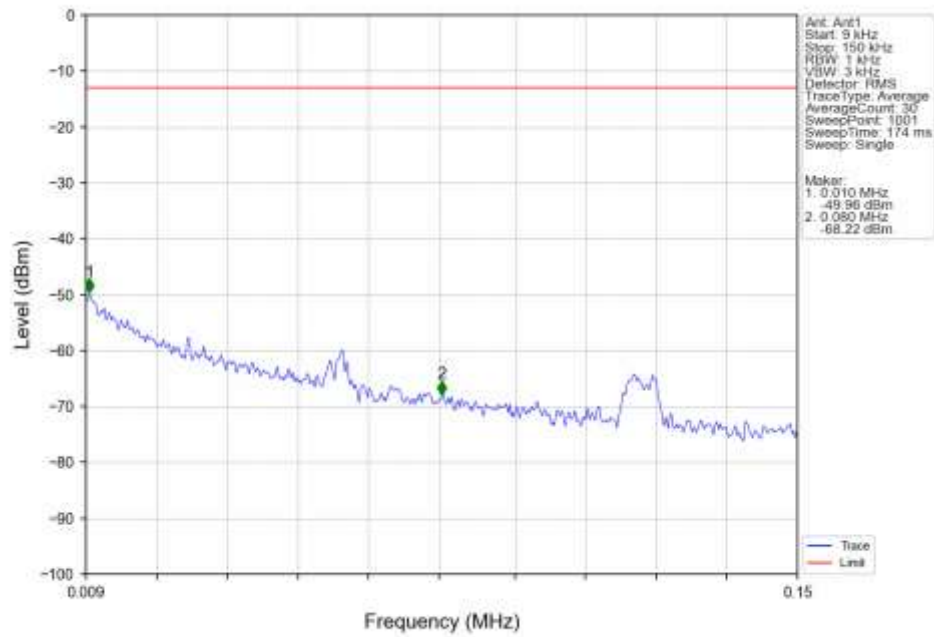
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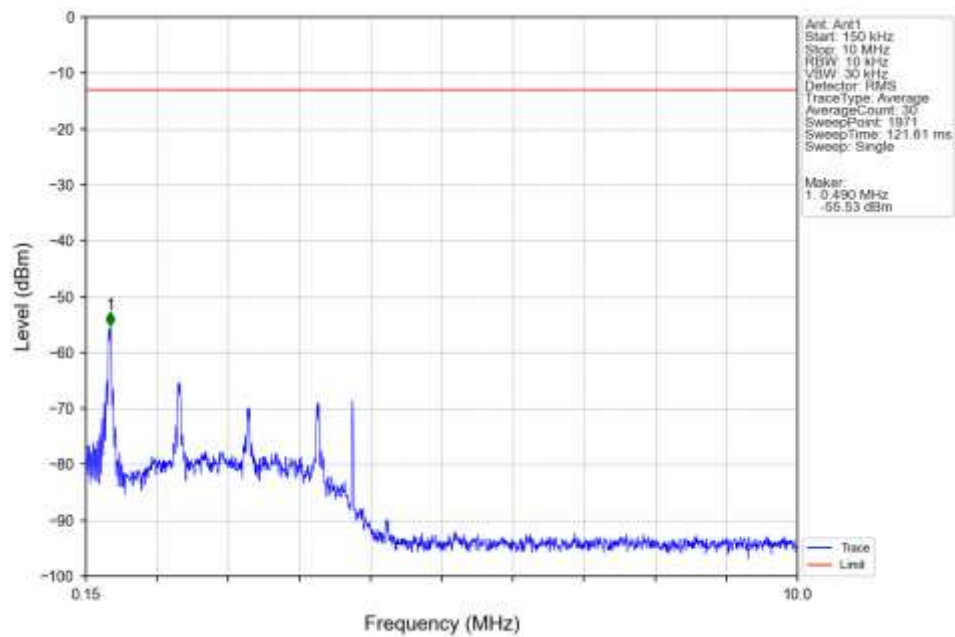
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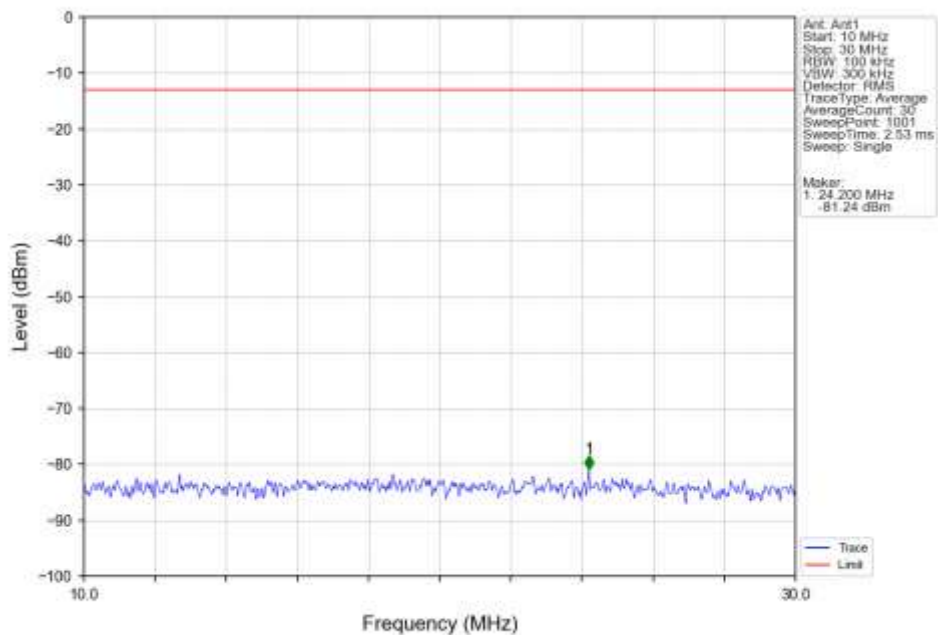
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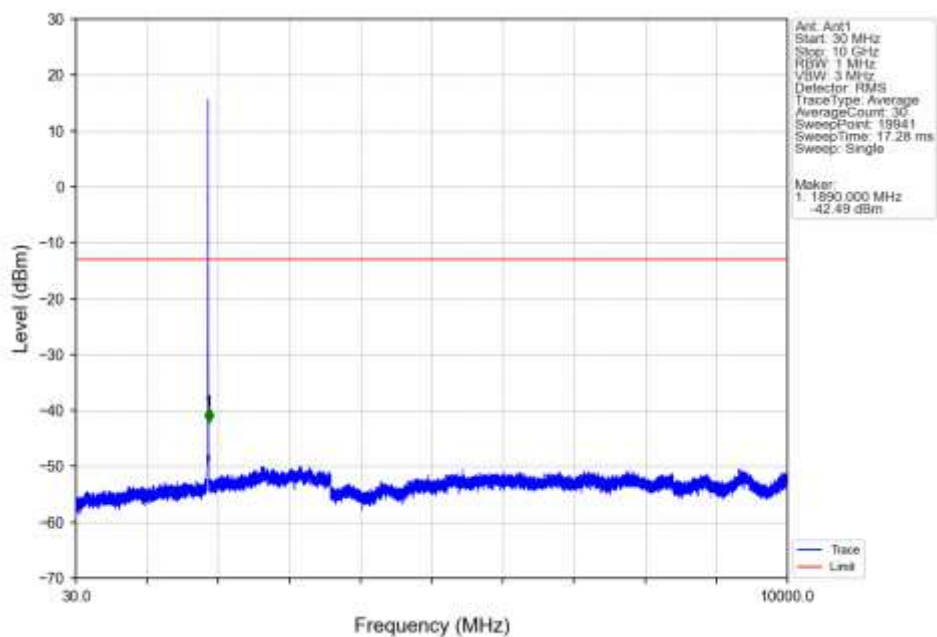
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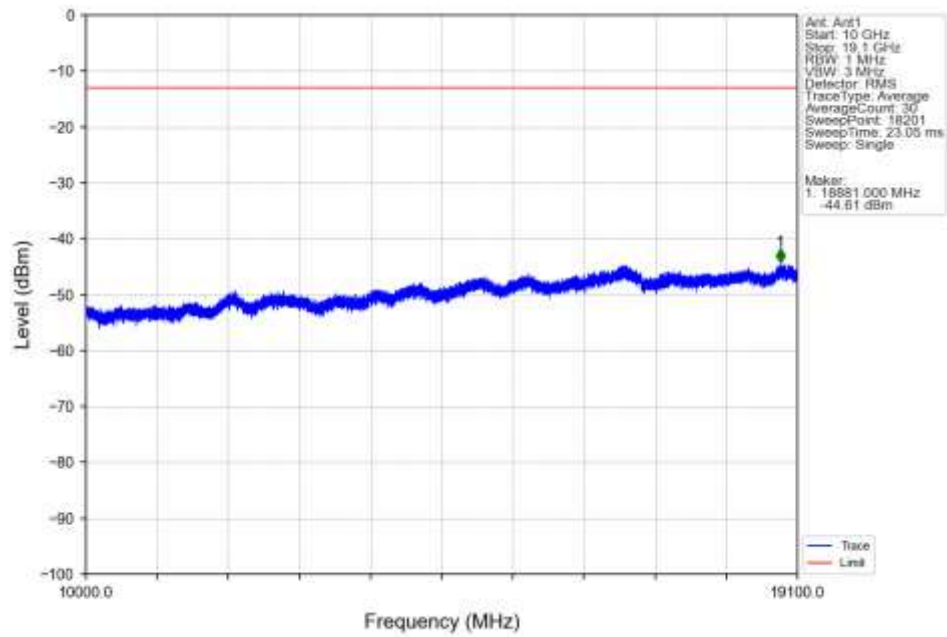
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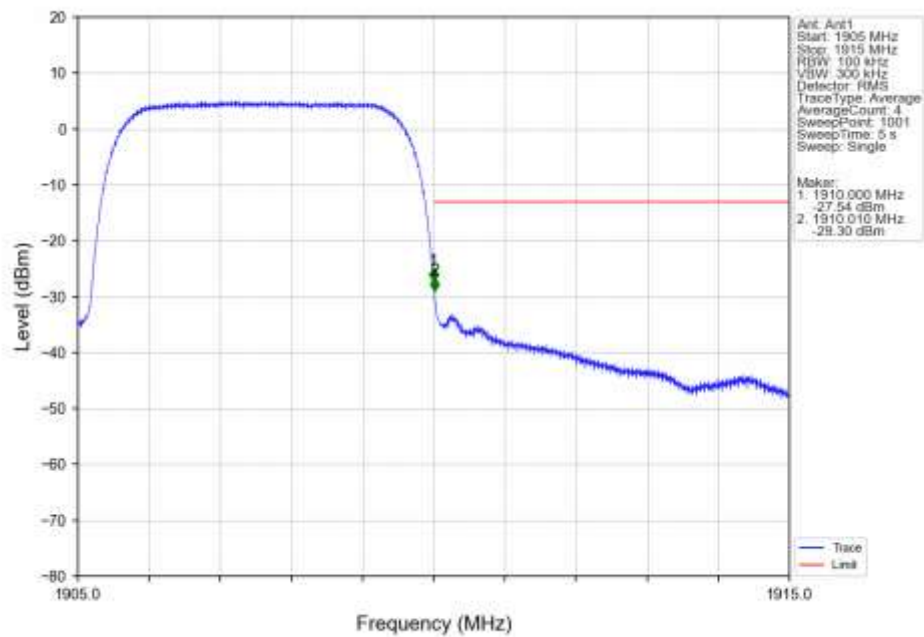
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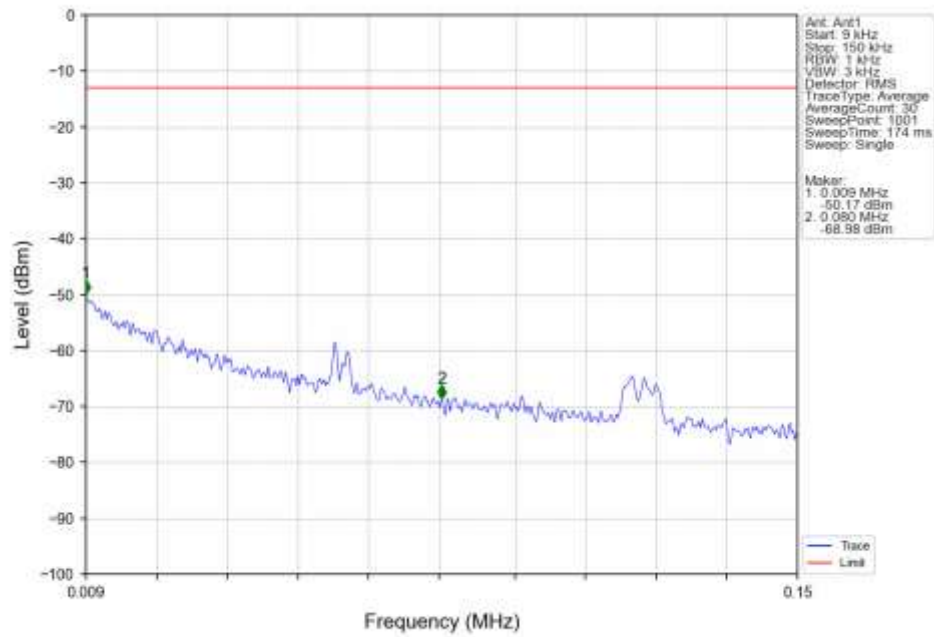
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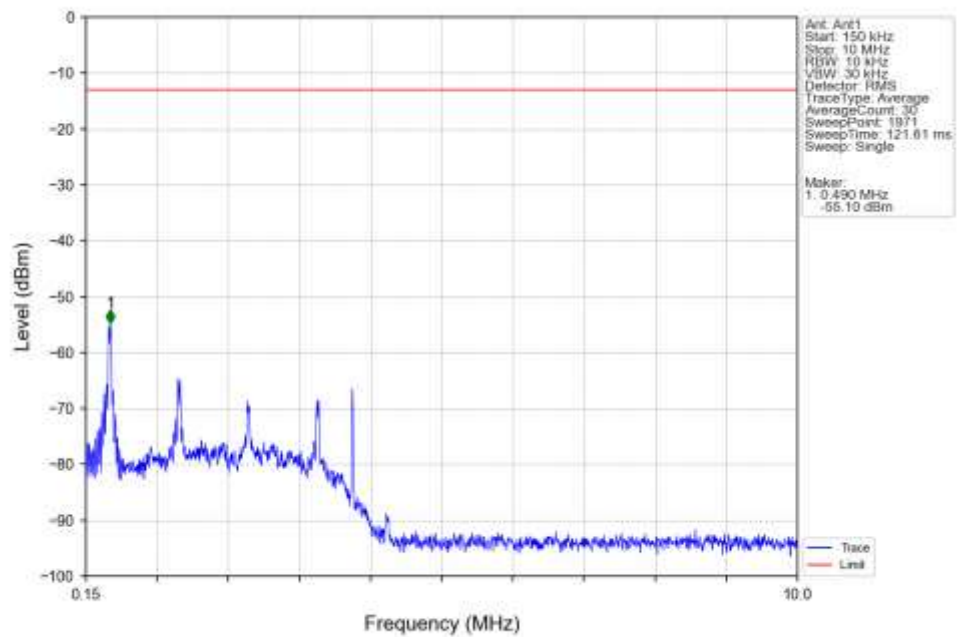
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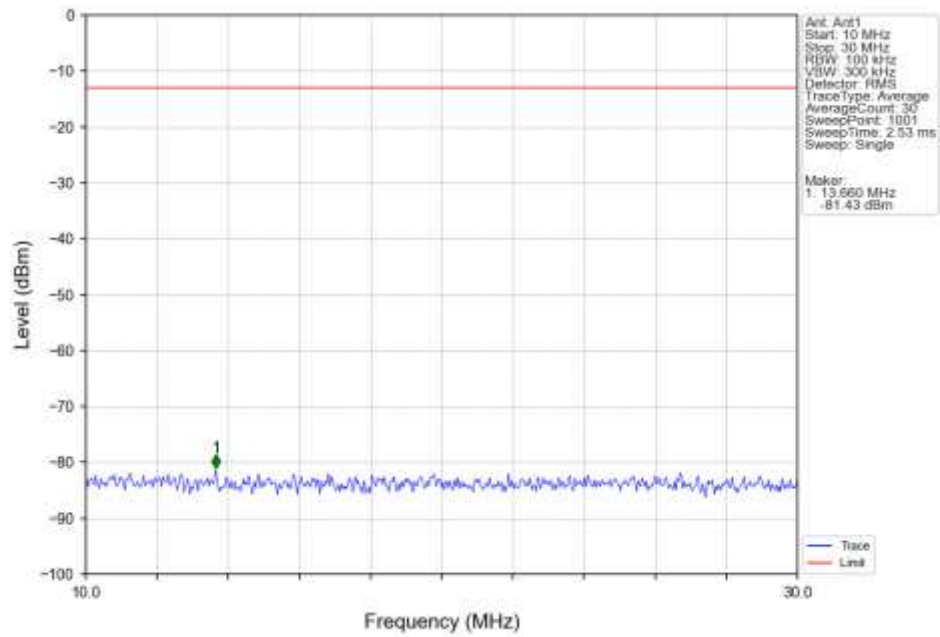
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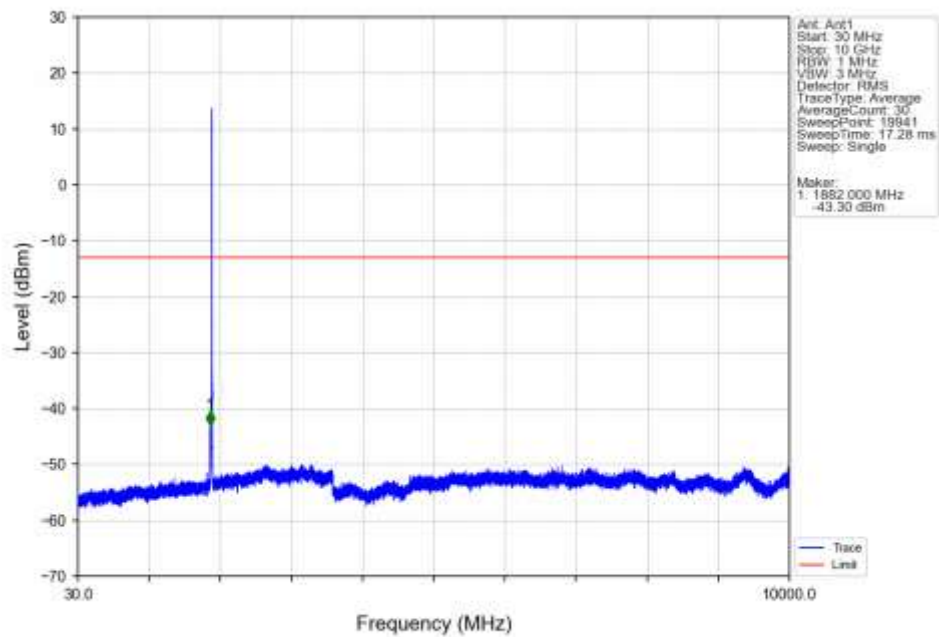
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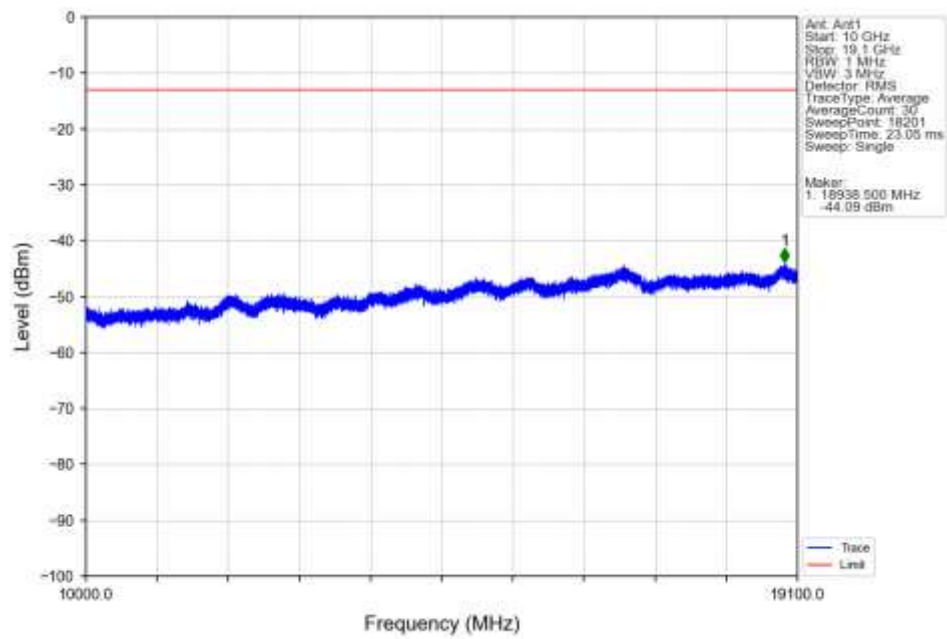
Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTNV



Band2 HSUPA HCH 1907.6MHz Subtest 1 NTN



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)
2	3.84	1852.4	1907.6	0.1211	0.0303	ppm	4M17F9W	24E	20.83

7.1.2 Form731_EIRP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
2	3.84	1852.4	1907.6	0.1730	0.0303	ppm	4M17F9W	24E	22.38