

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

Band: 4									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	1712.4	20.88	1.18	22.06	<=30	Pass	
			1732.6	20.68	1.18	21.86	<=30	Pass	
			1752.6	20.89	1.18	22.07	<=30	Pass	
	HSDPA	Subtest 1	1712.4	18.88	1.18	20.06	<=30	Pass	
		Subtest 2	1712.4	18.82	1.18	20.00	<=30	Pass	
		Subtest 3	1712.4	18.77	1.18	19.95	<=30	Pass	
		Subtest 4	1712.4	18.77	1.18	19.95	<=30	Pass	
		Subtest 1	1732.6	18.68	1.18	19.86	<=30	Pass	
		Subtest 2	1732.6	18.77	1.18	19.95	<=30	Pass	
		Subtest 3	1732.6	18.68	1.18	19.86	<=30	Pass	
		Subtest 4	1732.6	18.65	1.18	19.83	<=30	Pass	
		Subtest 1	1752.6	18.61	1.18	19.79	<=30	Pass	
		Subtest 2	1752.6	18.82	1.18	20.00	<=30	Pass	
		Subtest 3	1752.6	18.65	1.18	19.83	<=30	Pass	
		Subtest 4	1752.6	18.79	1.18	19.97	<=30	Pass	
		HSUPA	Subtest 1	1712.4	17.31	1.18	18.49	<=30	Pass
			Subtest 2	1712.4	16.94	1.18	18.12	<=30	Pass
			Subtest 3	1712.4	17.41	1.18	18.59	<=30	Pass
			Subtest 4	1712.4	16.96	1.18	18.14	<=30	Pass
			Subtest 5	1712.4	17.23	1.18	18.41	<=30	Pass
			Subtest 1	1732.6	16.98	1.18	18.16	<=30	Pass
			Subtest 2	1732.6	16.69	1.18	17.87	<=30	Pass
			Subtest 3	1732.6	17.21	1.18	18.39	<=30	Pass
	Subtest 4		1732.6	16.82	1.18	18.00	<=30	Pass	
	Subtest 5		1732.6	17.08	1.18	18.26	<=30	Pass	
	Subtest 1		1752.6	16.70	1.18	17.88	<=30	Pass	
	Subtest 2		1752.6	17.22	1.18	18.40	<=30	Pass	
	Subtest 3	1752.6	17.01	1.18	18.19	<=30	Pass		
	Subtest 4	1752.6	17.20	1.18	18.38	<=30	Pass		
	Subtest 5	1752.6	16.88	1.18	18.06	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	10.2	23.282	0.0136	-2.5 to 2.5	Pass

			12	23.403	0.0137	-2.5 to 2.5	Pass
			13.8	23.568	0.0138	-2.5 to 2.5	Pass
		-30	12	23.854	0.0139	-2.5 to 2.5	Pass
		-20	12	24.261	0.0142	-2.5 to 2.5	Pass
		-10	12	23.925	0.0140	-2.5 to 2.5	Pass
		0	12	24.290	0.0142	-2.5 to 2.5	Pass
		10	12	23.725	0.0139	-2.5 to 2.5	Pass
		30	12	23.854	0.0139	-2.5 to 2.5	Pass
		40	12	24.469	0.0143	-2.5 to 2.5	Pass
		50	12	24.426	0.0143	-2.5 to 2.5	Pass
	1732.6	20	10.2	0.265	0.0002	-2.5 to 2.5	Pass
			12	0.014	0.0000	-2.5 to 2.5	Pass
			13.8	-0.165	-0.0001	-2.5 to 2.5	Pass
		-30	12	0.894	0.0005	-2.5 to 2.5	Pass
		-20	12	0.057	0.0000	-2.5 to 2.5	Pass
		-10	12	0.379	0.0002	-2.5 to 2.5	Pass
		0	12	0.029	0.0000	-2.5 to 2.5	Pass
		10	12	0.322	0.0002	-2.5 to 2.5	Pass
		30	12	0.250	0.0001	-2.5 to 2.5	Pass
		40	12	0.215	0.0001	-2.5 to 2.5	Pass
		50	12	0.143	0.0001	-2.5 to 2.5	Pass
	1752.6	20	10.2	-22.159	-0.0126	-2.5 to 2.5	Pass
			12	-22.380	-0.0128	-2.5 to 2.5	Pass
			13.8	-21.672	-0.0124	-2.5 to 2.5	Pass
		-30	12	-21.329	-0.0122	-2.5 to 2.5	Pass
		-20	12	-20.785	-0.0119	-2.5 to 2.5	Pass
		-10	12	-22.194	-0.0127	-2.5 to 2.5	Pass
		0	12	-22.345	-0.0127	-2.5 to 2.5	Pass
		10	12	-22.001	-0.0126	-2.5 to 2.5	Pass
		30	12	-22.337	-0.0127	-2.5 to 2.5	Pass
		40	12	-22.416	-0.0128	-2.5 to 2.5	Pass
		50	12	-21.644	-0.0123	-2.5 to 2.5	Pass
HSDPA	1712.4	20	10.2	16.866	0.0098	-2.5 to 2.5	Pass
			12	16.258	0.0095	-2.5 to 2.5	Pass
			13.8	16.437	0.0096	-2.5 to 2.5	Pass
		-30	12	16.973	0.0099	-2.5 to 2.5	Pass
		-20	12	16.716	0.0098	-2.5 to 2.5	Pass
		-10	12	16.944	0.0099	-2.5 to 2.5	Pass
		0	12	17.180	0.0100	-2.5 to 2.5	Pass
		10	12	16.959	0.0099	-2.5 to 2.5	Pass
		30	12	16.959	0.0099	-2.5 to 2.5	Pass
		40	12	16.851	0.0098	-2.5 to 2.5	Pass
		50	12	17.295	0.0101	-2.5 to 2.5	Pass
	1732.6	20	10.2	-6.251	-0.0036	-2.5 to 2.5	Pass
			12	-5.286	-0.0031	-2.5 to 2.5	Pass
			13.8	-4.635	-0.0027	-2.5 to 2.5	Pass
		-30	12	-5.629	-0.0032	-2.5 to 2.5	Pass
		-20	12	-5.364	-0.0031	-2.5 to 2.5	Pass
		-10	12	-5.744	-0.0033	-2.5 to 2.5	Pass
		0	12	-5.636	-0.0033	-2.5 to 2.5	Pass
		10	12	-6.502	-0.0038	-2.5 to 2.5	Pass
		30	12	-5.608	-0.0032	-2.5 to 2.5	Pass
		40	12	-5.636	-0.0033	-2.5 to 2.5	Pass
		50	12	-5.901	-0.0034	-2.5 to 2.5	Pass
	1752.6	20	10.2	-27.123	-0.0155	-2.5 to 2.5	Pass
			12	-27.337	-0.0156	-2.5 to 2.5	Pass
			13.8	-26.293	-0.0150	-2.5 to 2.5	Pass
		-30	12	-26.722	-0.0152	-2.5 to 2.5	Pass
		-20	12	-27.030	-0.0154	-2.5 to 2.5	Pass
		-10	12	-26.679	-0.0152	-2.5 to 2.5	Pass
		0	12	-26.822	-0.0153	-2.5 to 2.5	Pass

		10	12	-27.137	-0.0155	-2.5 to 2.5	Pass
		30	12	-26.751	-0.0153	-2.5 to 2.5	Pass
		40	12	-27.137	-0.0155	-2.5 to 2.5	Pass
		50	12	-27.387	-0.0156	-2.5 to 2.5	Pass
HSUPA	1712.4	20	10.2	26.600	0.0155	-2.5 to 2.5	Pass
			12	27.072	0.0158	-2.5 to 2.5	Pass
			13.8	27.223	0.0159	-2.5 to 2.5	Pass
		-30	12	27.652	0.0161	-2.5 to 2.5	Pass
		-20	12	28.374	0.0166	-2.5 to 2.5	Pass
		-10	12	26.228	0.0153	-2.5 to 2.5	Pass
		0	12	27.108	0.0158	-2.5 to 2.5	Pass
		10	12	27.637	0.0161	-2.5 to 2.5	Pass
		30	12	28.353	0.0166	-2.5 to 2.5	Pass
		40	12	26.822	0.0157	-2.5 to 2.5	Pass
		50	12	27.158	0.0159	-2.5 to 2.5	Pass
	1732.6	20	10.2	4.027	0.0023	-2.5 to 2.5	Pass
			12	3.333	0.0019	-2.5 to 2.5	Pass
			13.8	4.699	0.0027	-2.5 to 2.5	Pass
		-30	12	3.197	0.0018	-2.5 to 2.5	Pass
		-20	12	5.651	0.0033	-2.5 to 2.5	Pass
		-10	12	5.379	0.0031	-2.5 to 2.5	Pass
		0	12	4.063	0.0023	-2.5 to 2.5	Pass
		10	12	3.934	0.0023	-2.5 to 2.5	Pass
		30	12	4.885	0.0028	-2.5 to 2.5	Pass
		40	12	3.304	0.0019	-2.5 to 2.5	Pass
		50	12	3.269	0.0019	-2.5 to 2.5	Pass
	1752.6	20	10.2	-19.276	-0.0110	-2.5 to 2.5	Pass
			12	-18.468	-0.0105	-2.5 to 2.5	Pass
			13.8	-16.487	-0.0094	-2.5 to 2.5	Pass
		-30	12	-16.251	-0.0093	-2.5 to 2.5	Pass
		-20	12	-17.967	-0.0103	-2.5 to 2.5	Pass
		-10	12	-18.425	-0.0105	-2.5 to 2.5	Pass
		0	12	-16.372	-0.0093	-2.5 to 2.5	Pass
		10	12	-16.565	-0.0095	-2.5 to 2.5	Pass
		30	12	-17.838	-0.0102	-2.5 to 2.5	Pass
		40	12	-18.361	-0.0105	-2.5 to 2.5	Pass
		50	12	-17.745	-0.0101	-2.5 to 2.5	Pass

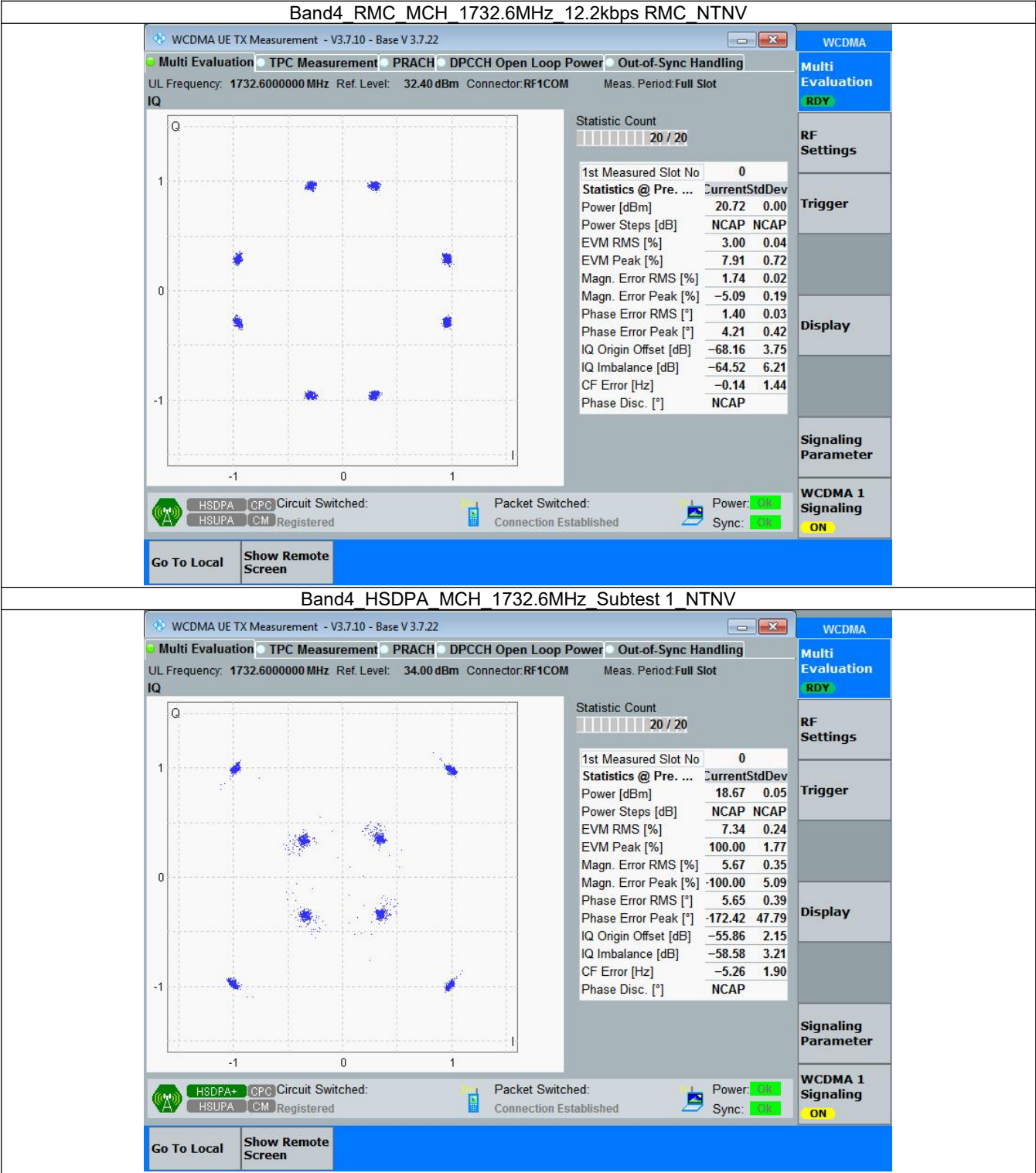
3. Modulation Characteristics

3.1 Band4

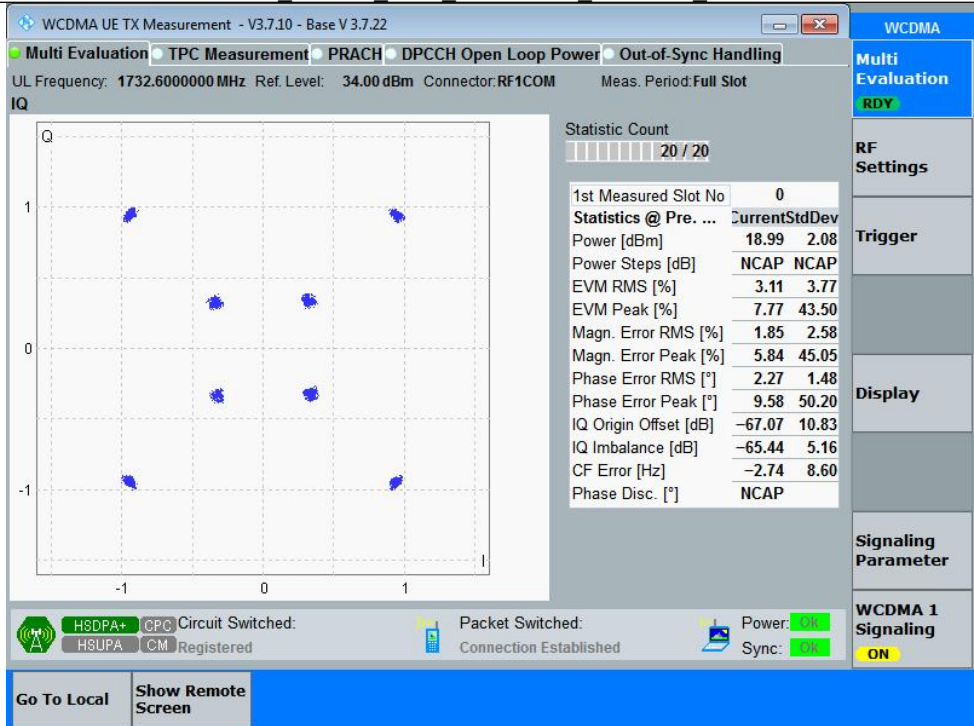
3.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1732.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1732.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1732.6	Refer To Test Graph		Pass

3.1.2 Test Graph



Band4 HSUPA MCH 1732.6MHz Subtest 1 NTN



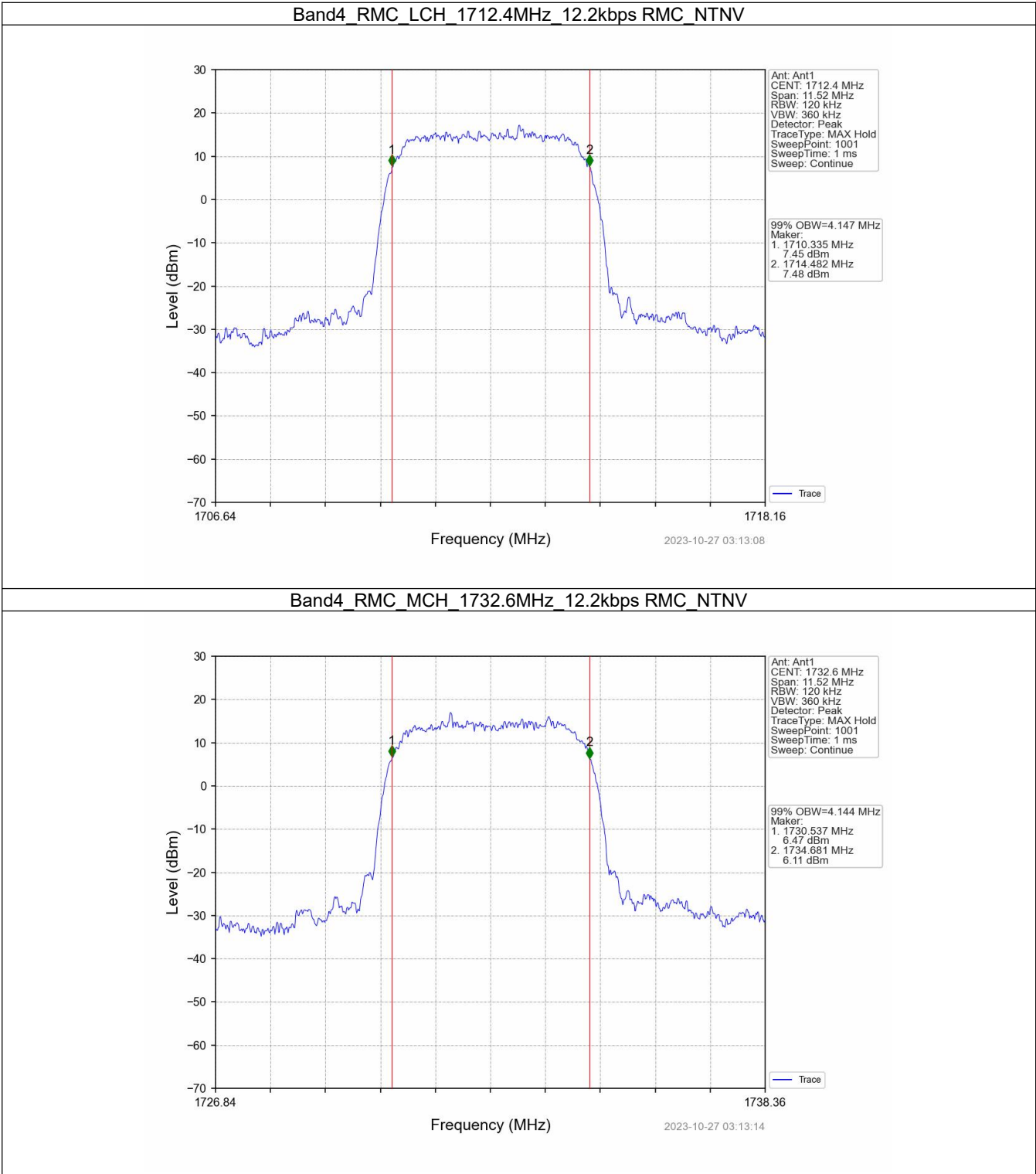
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

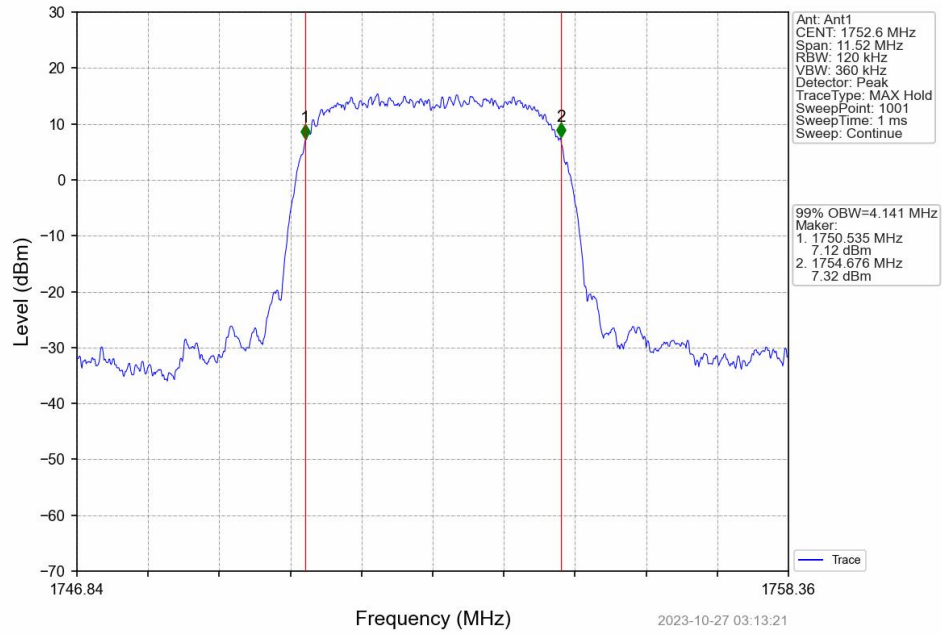
4.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.147	/	Pass
			1732.6	4.144	/	Pass
			1752.6	4.141	/	Pass
	HSDPA	Subtest 1	1712.4	4.173	/	Pass
			1732.6	4.209	/	Pass
			1752.6	4.155	/	Pass
	HSUPA	Subtest 1	1712.4	4.182	/	Pass
			1732.6	4.176	/	Pass
			1752.6	4.186	/	Pass

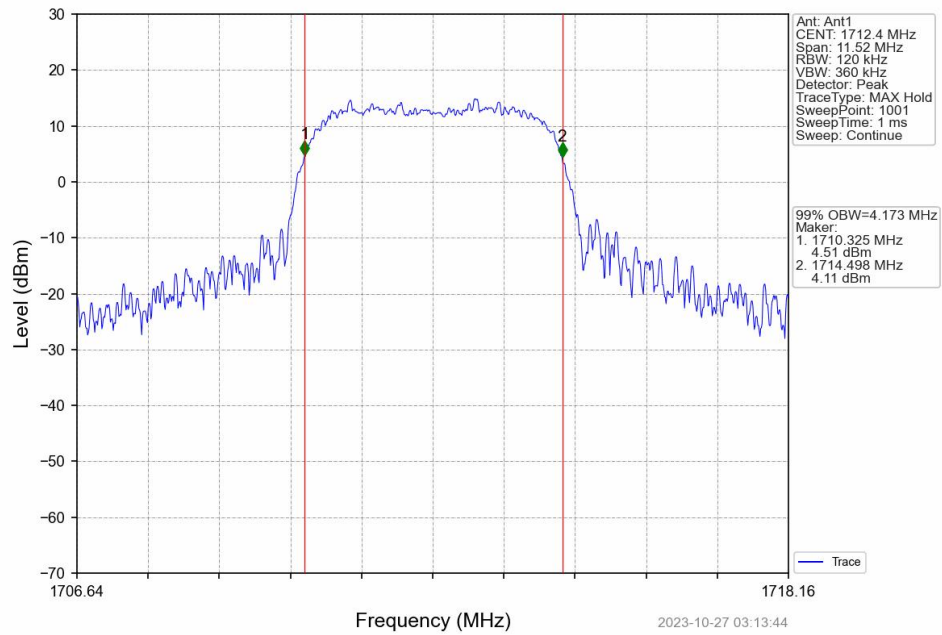
4.1.2 Test Graph



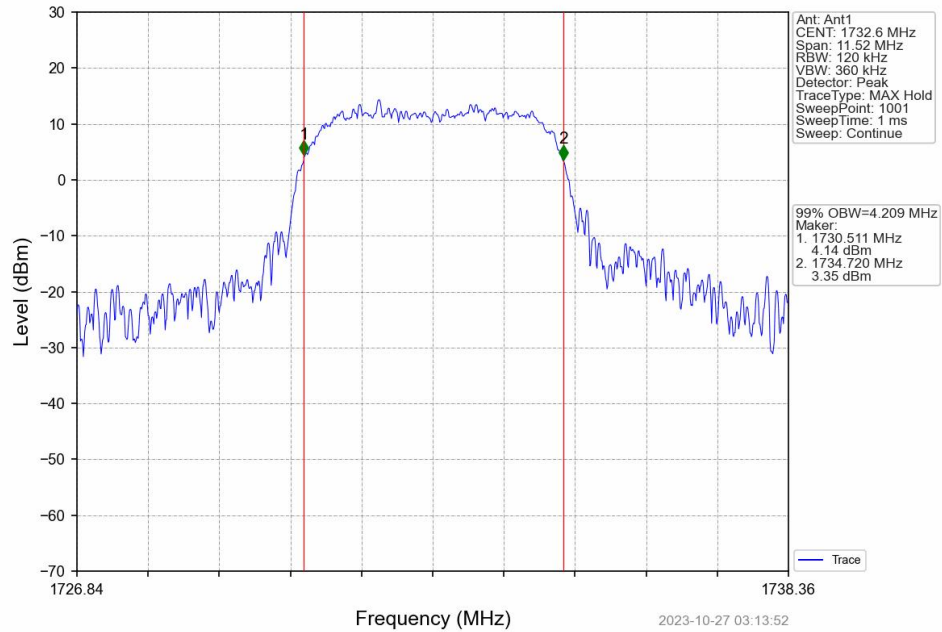
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



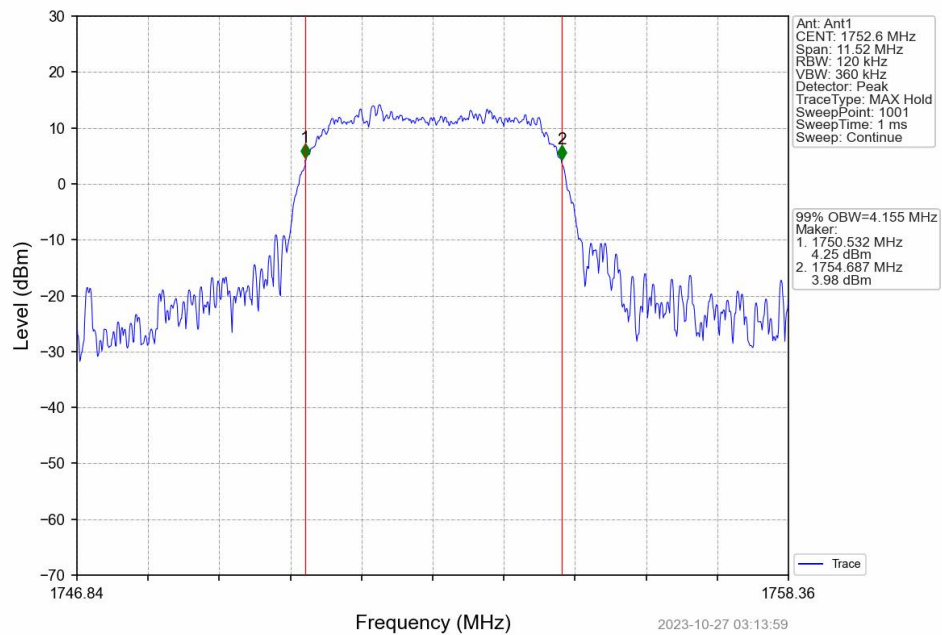
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



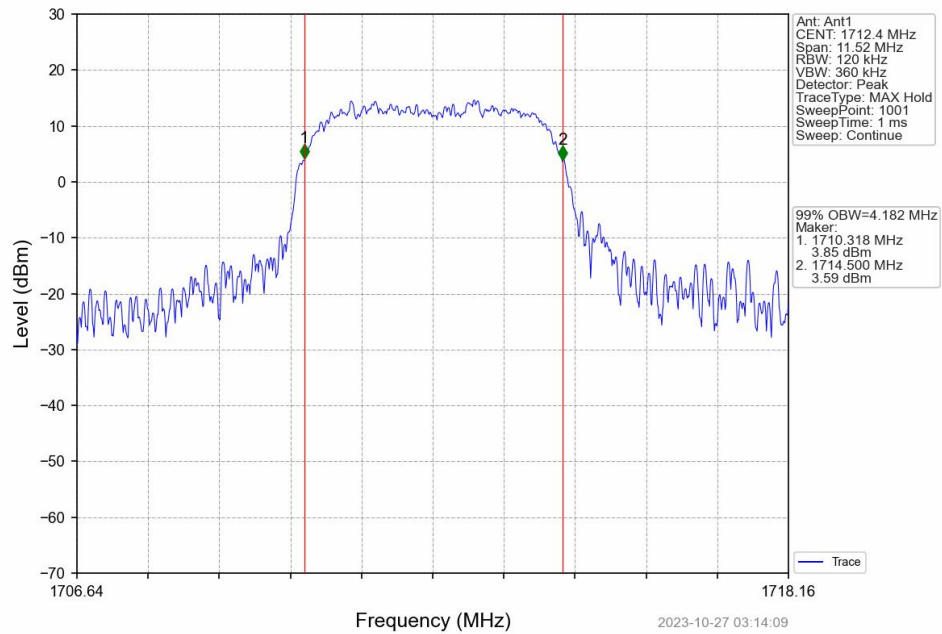
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



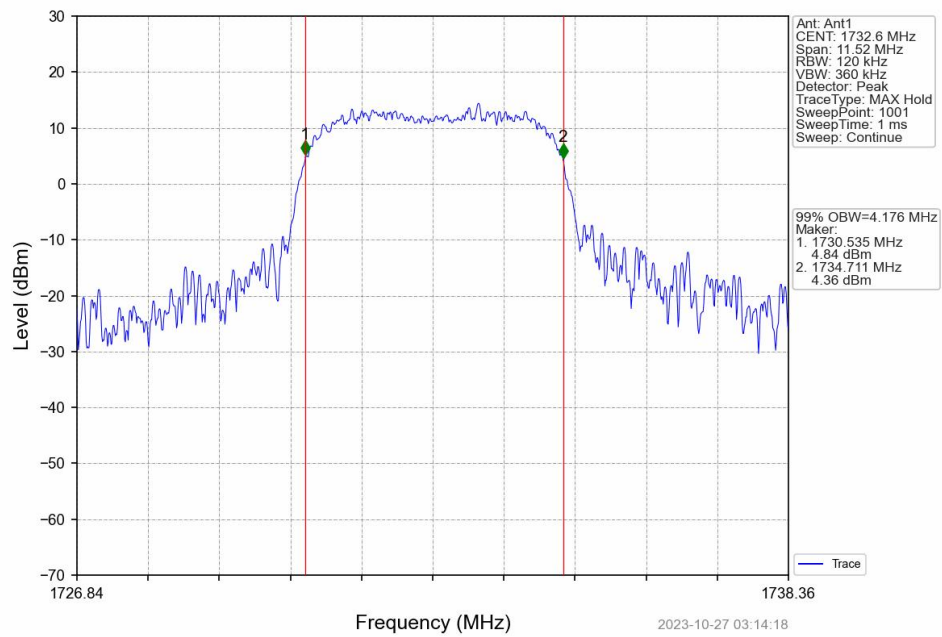
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



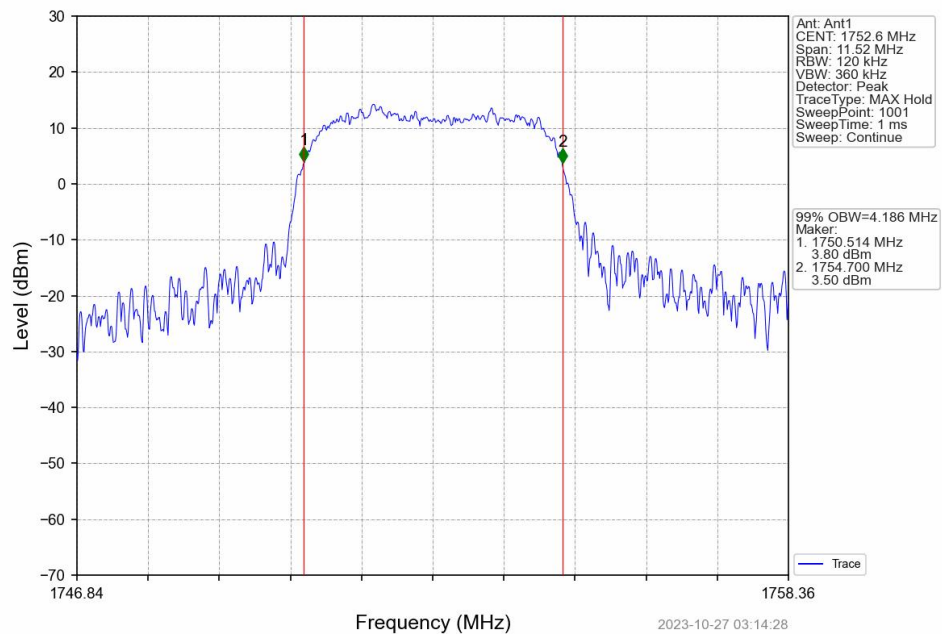
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

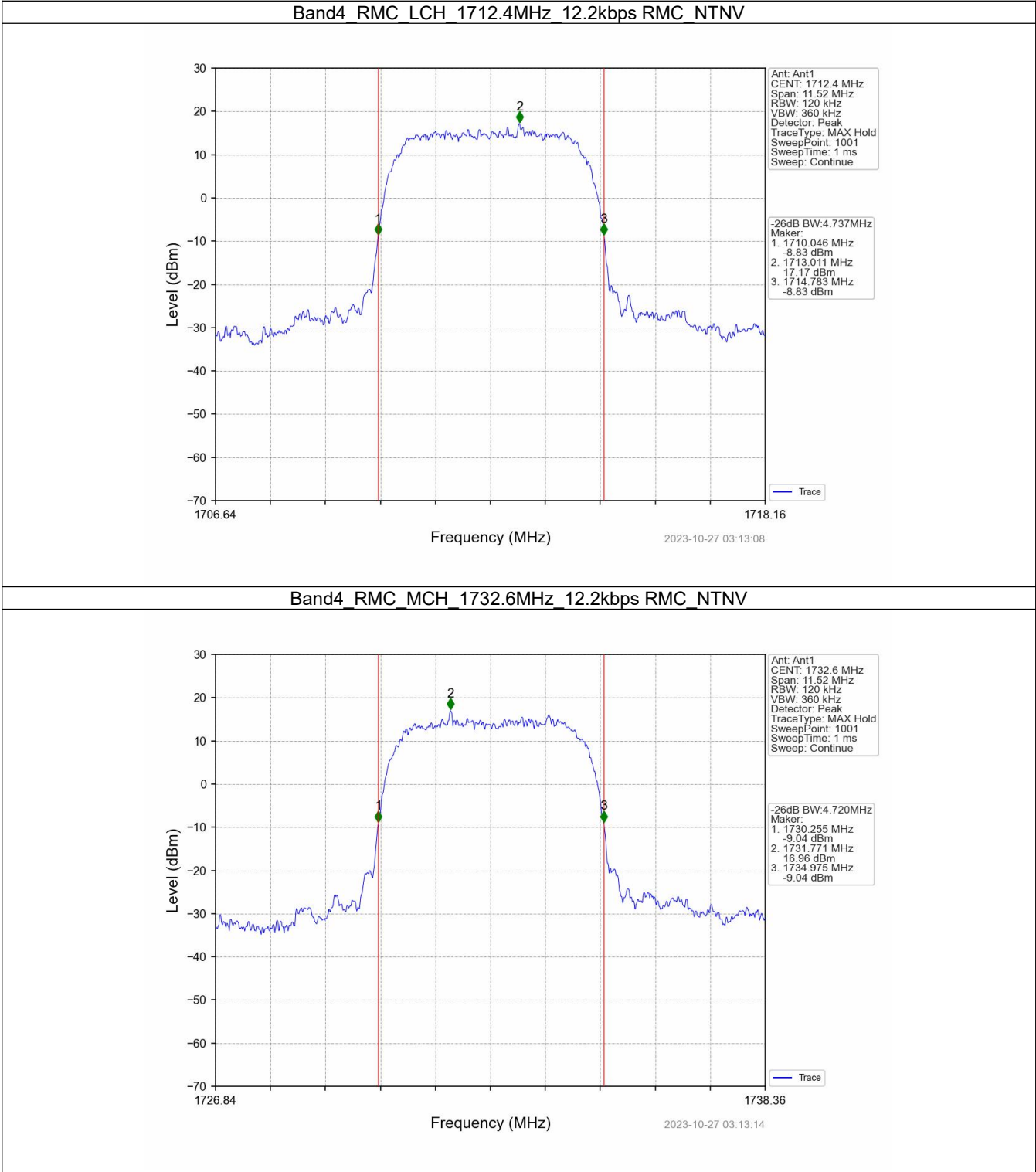


4.2 Band4_XDB

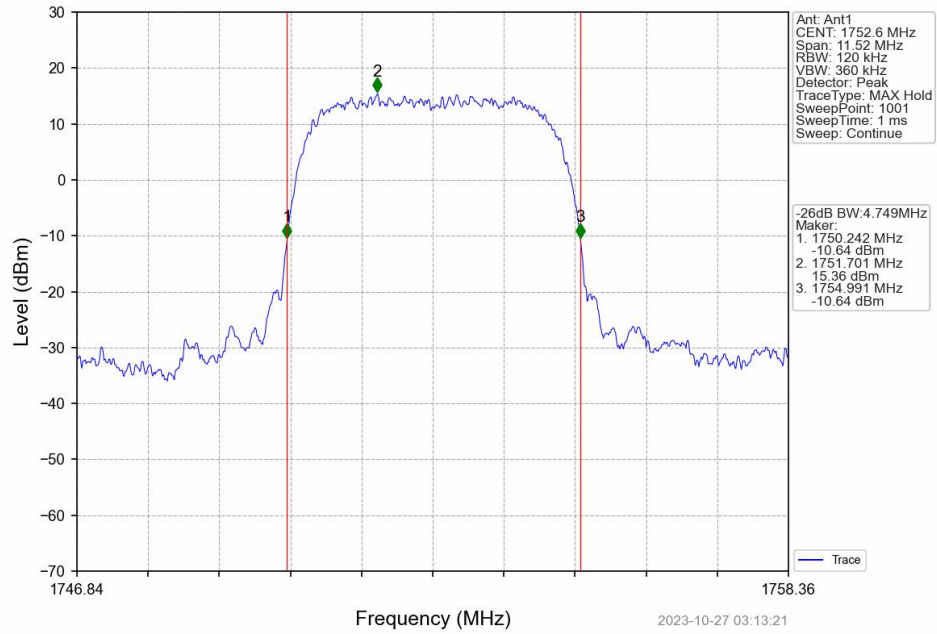
4.2.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.737	/	Pass
			1732.6	4.720	/	Pass
			1752.6	4.749	/	Pass
	HSDPA	Subtest 1	1712.4	5.783	/	Pass
			1732.6	5.809	/	Pass
			1752.6	5.379	/	Pass
	HSUPA	Subtest 1	1712.4	5.317	/	Pass
			1732.6	6.057	/	Pass
			1752.6	5.650	/	Pass

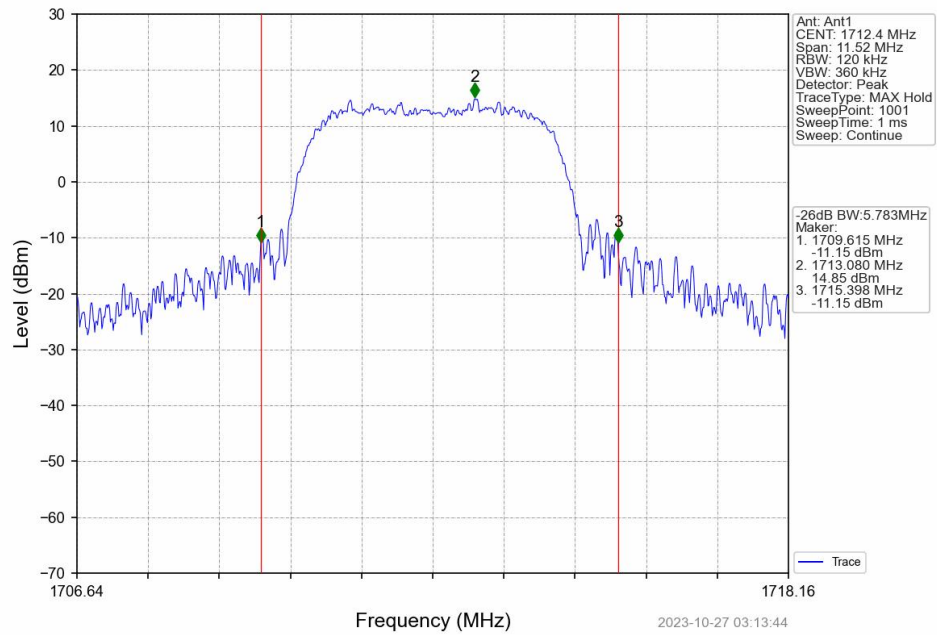
4.2.2 Test Graph



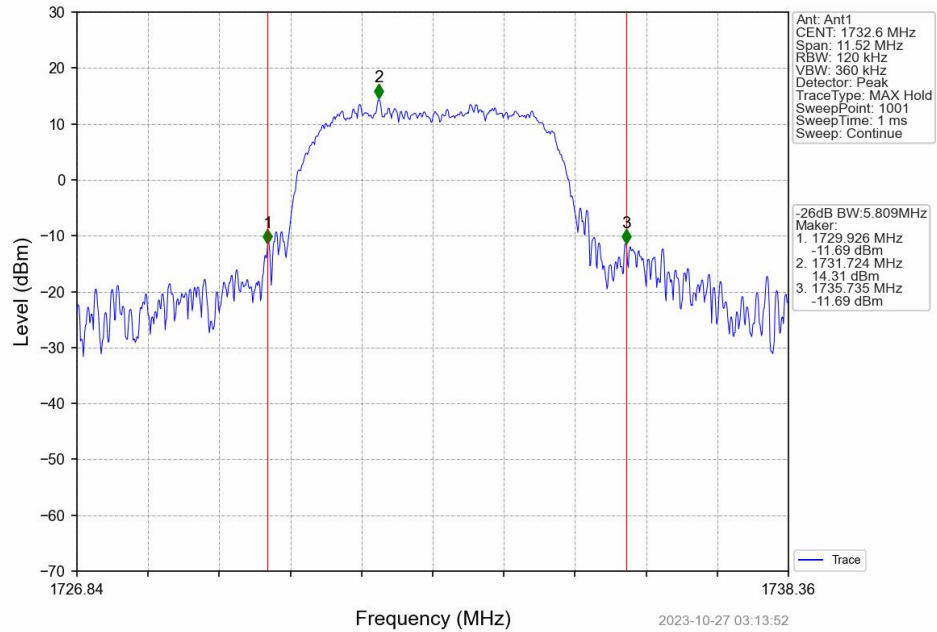
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



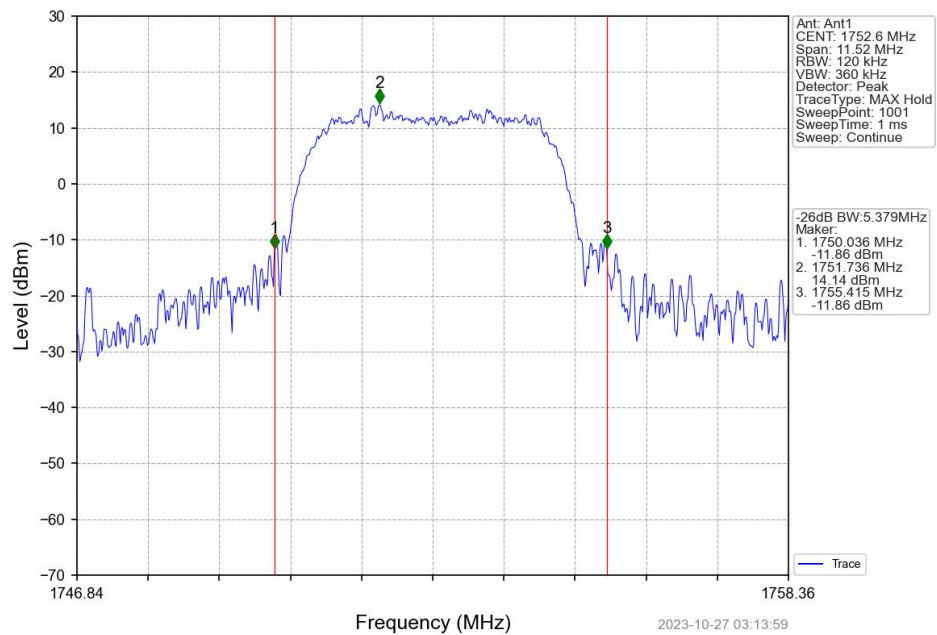
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



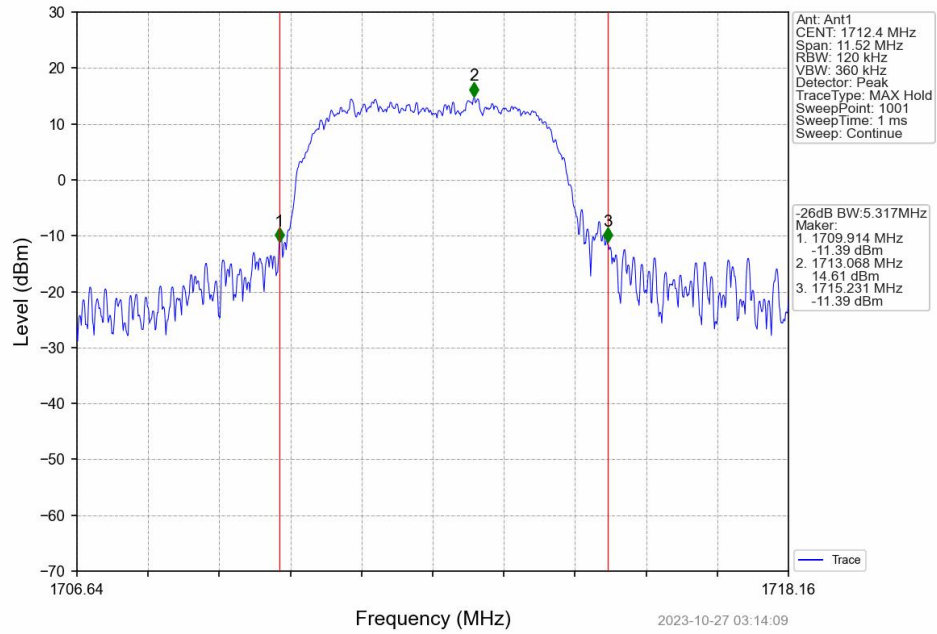
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



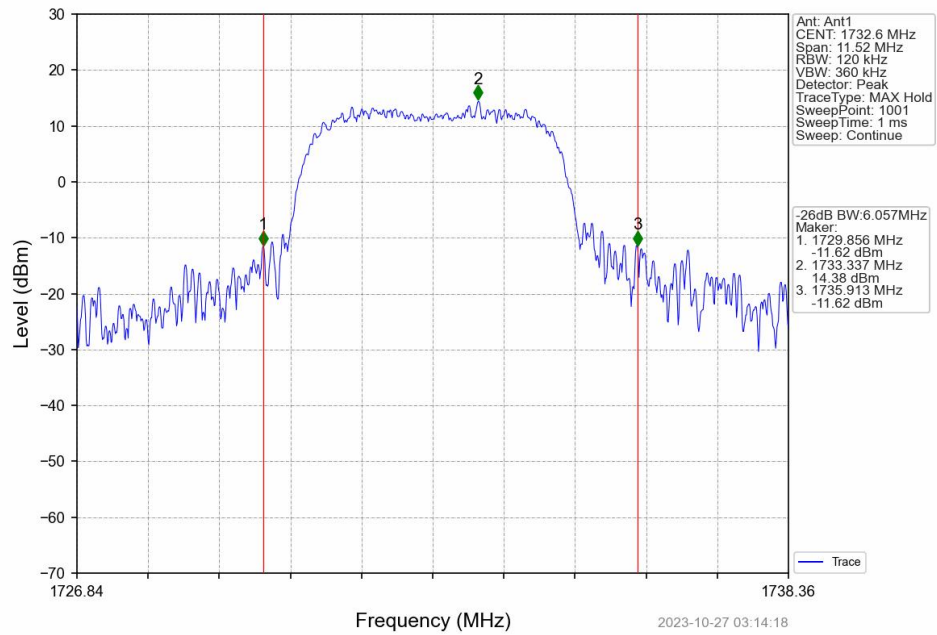
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



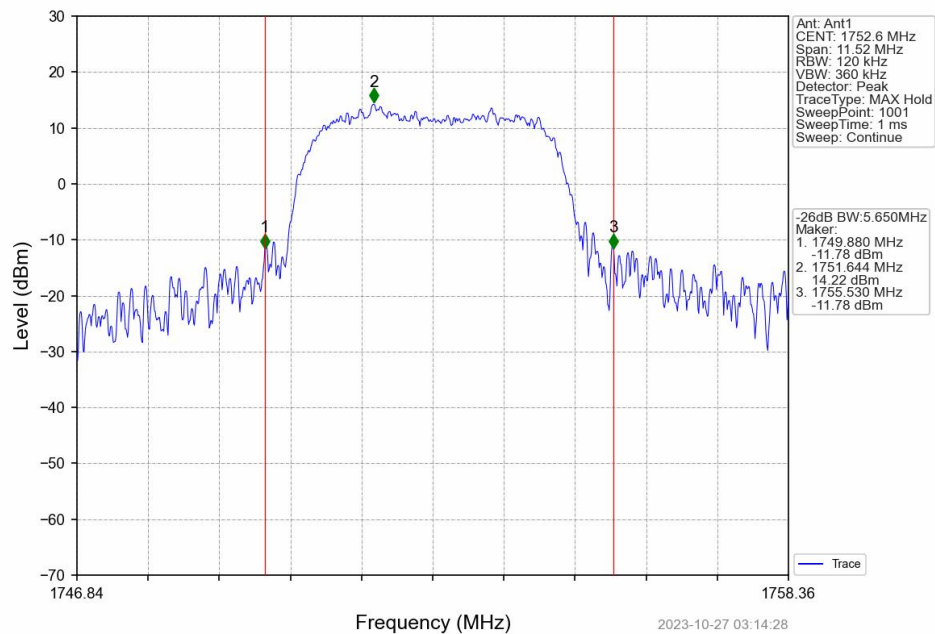
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



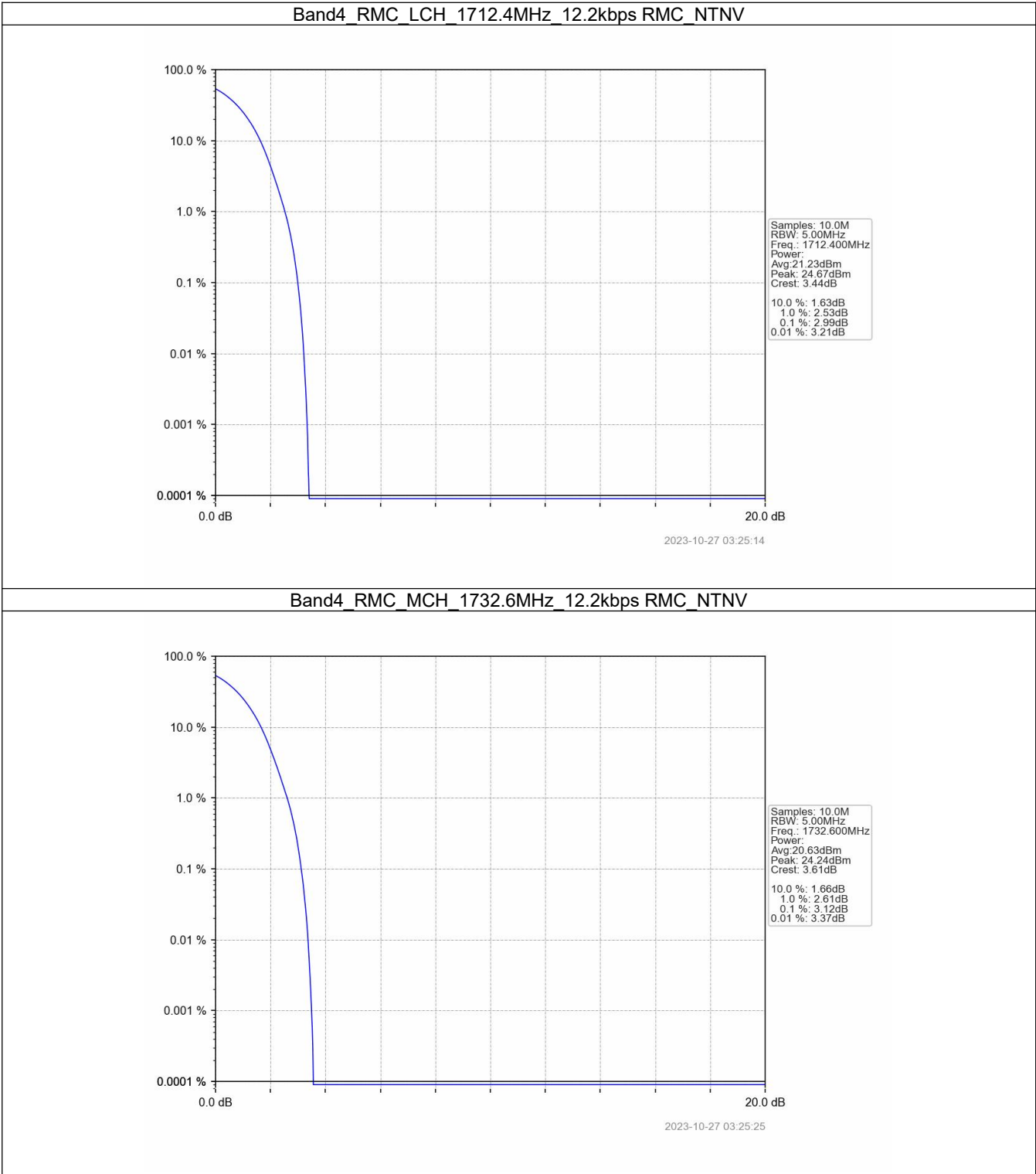
5. Peak-Average Ratio

5.1 Band4

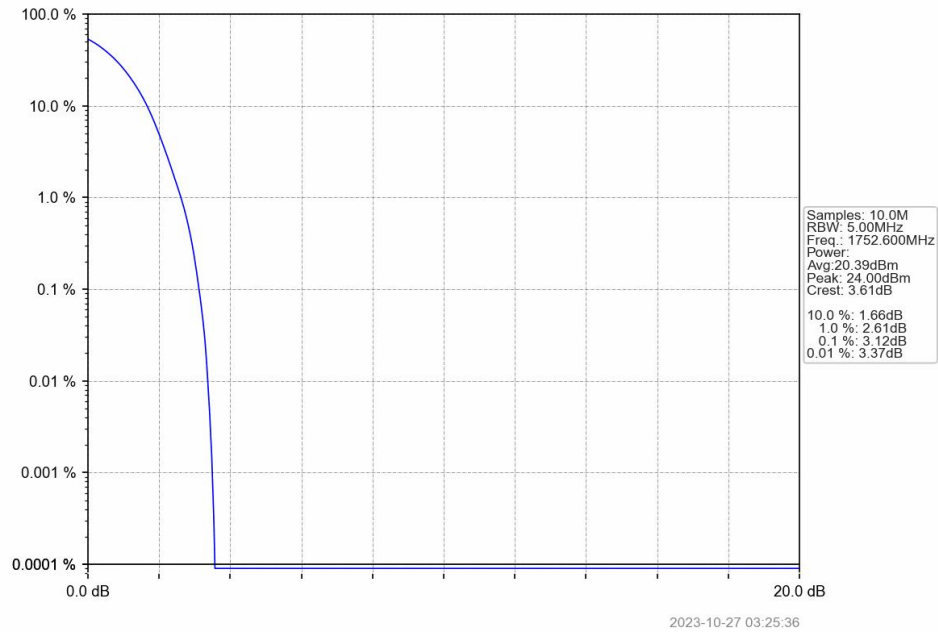
5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.99	<=13	Pass
			1732.6	3.12	<=13	Pass
			1752.6	3.12	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.50	<=13	Pass
			1732.6	5.51	<=13	Pass
			1752.6	5.53	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.49	<=13	Pass
			1732.6	5.54	<=13	Pass
			1752.6	5.56	<=13	Pass

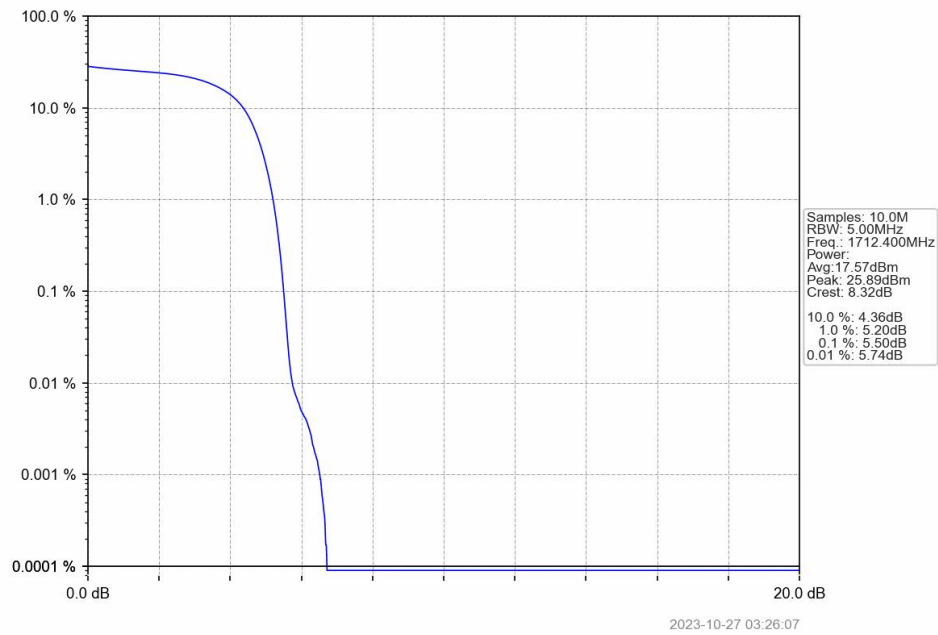
5.1.2 Test Graph



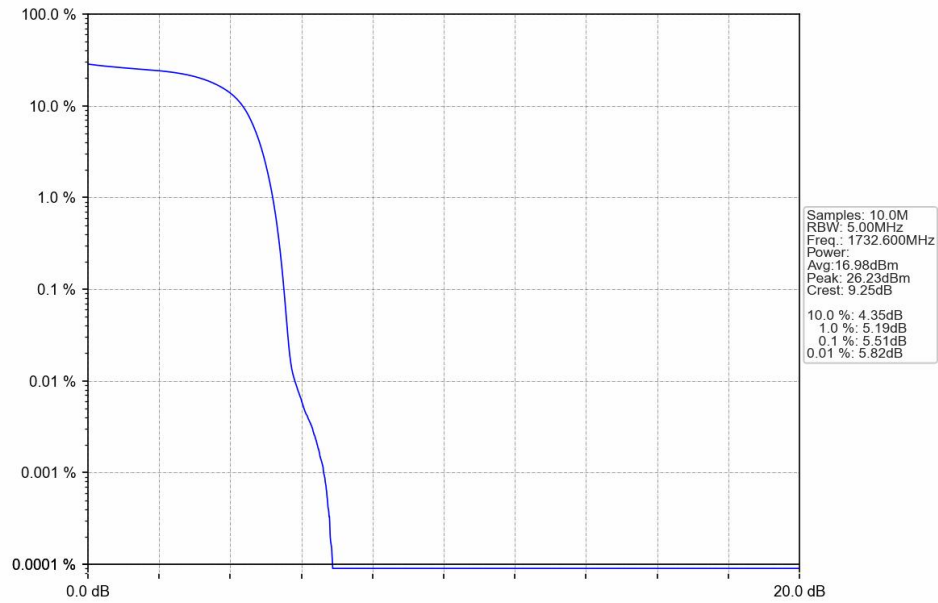
Band4_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



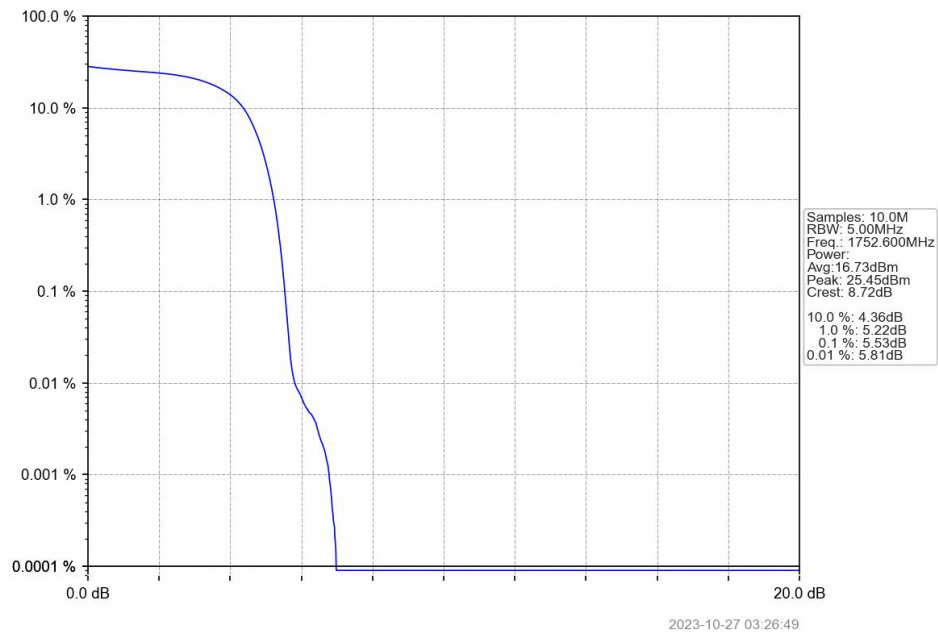
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



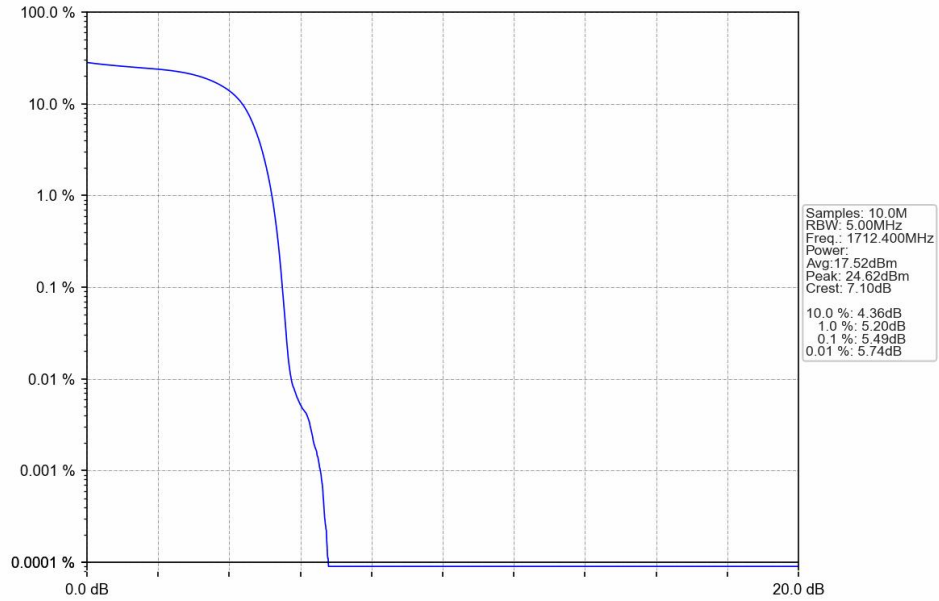
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

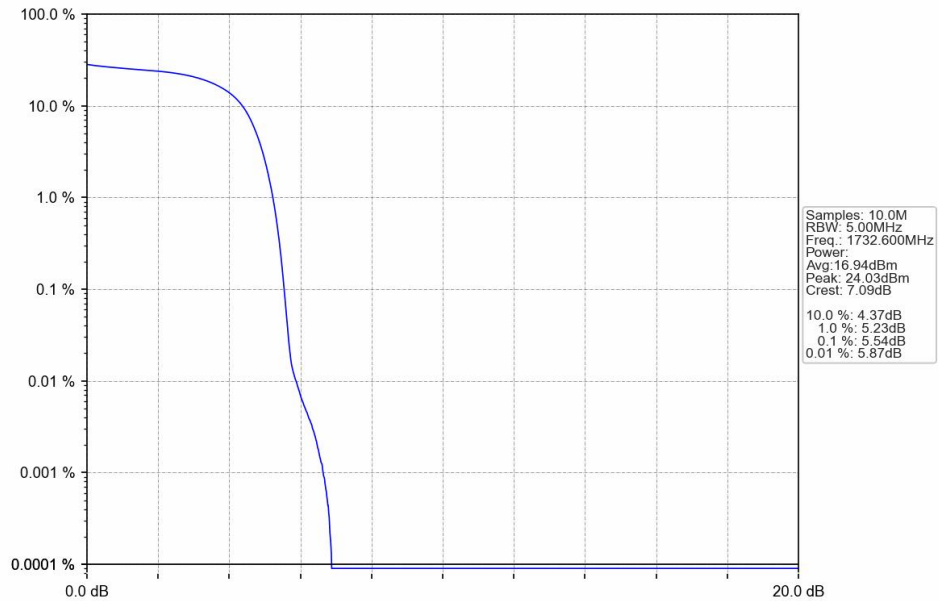


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



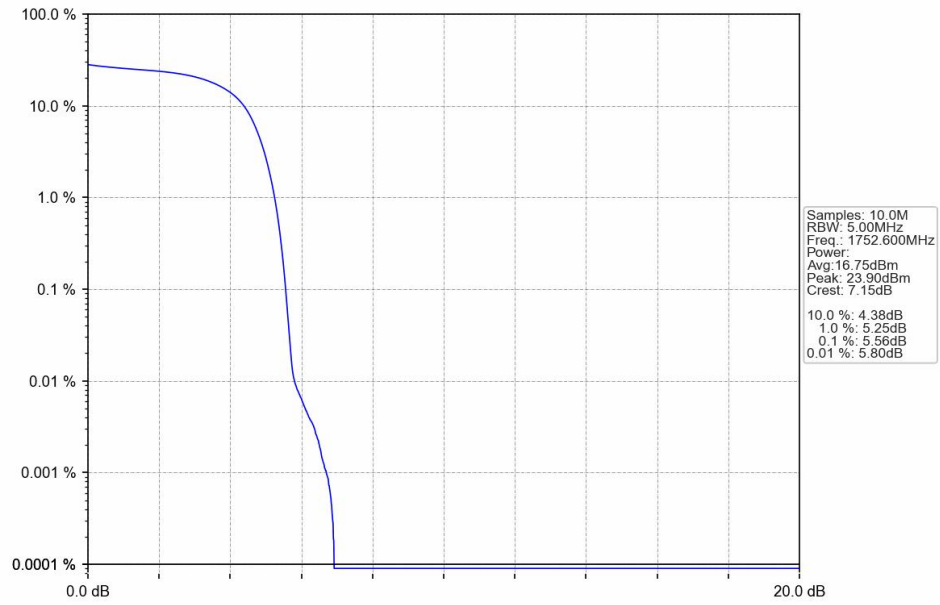
2023-10-27 03:27:08

Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



2023-10-27 03:27:28

Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



2023-10-27 03:27:48

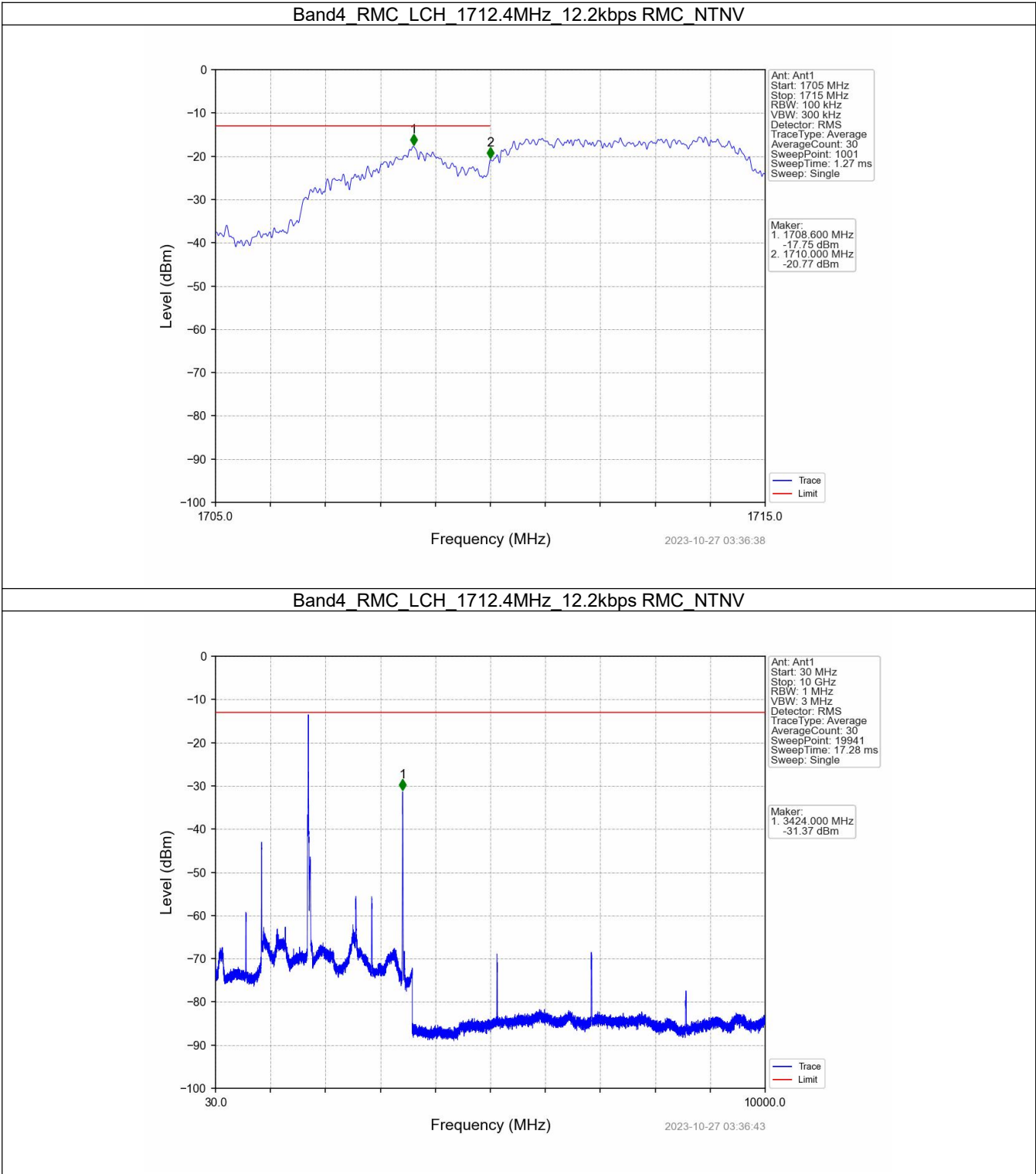
6. Spurious Emission

6.1 Band4

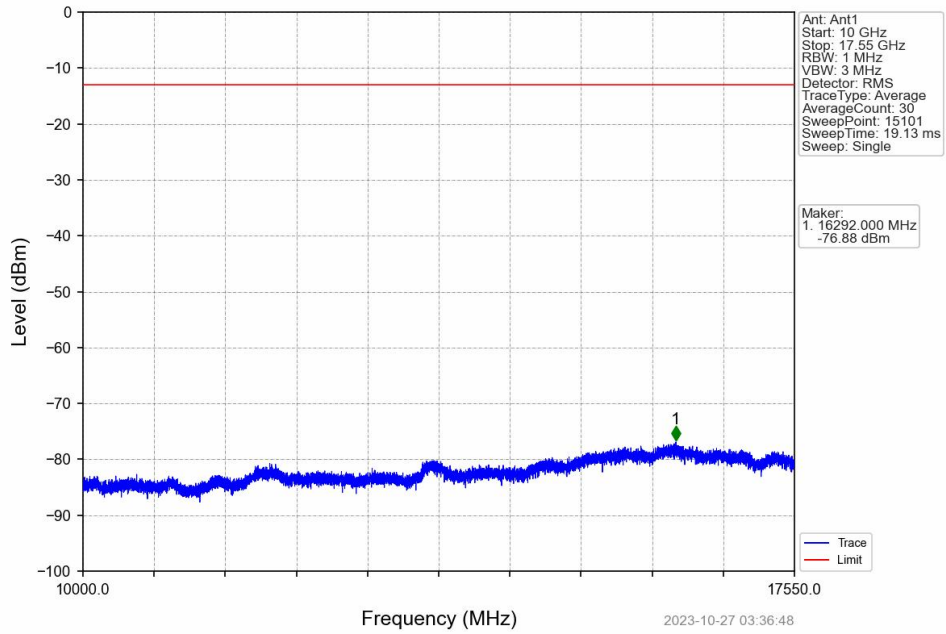
6.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass

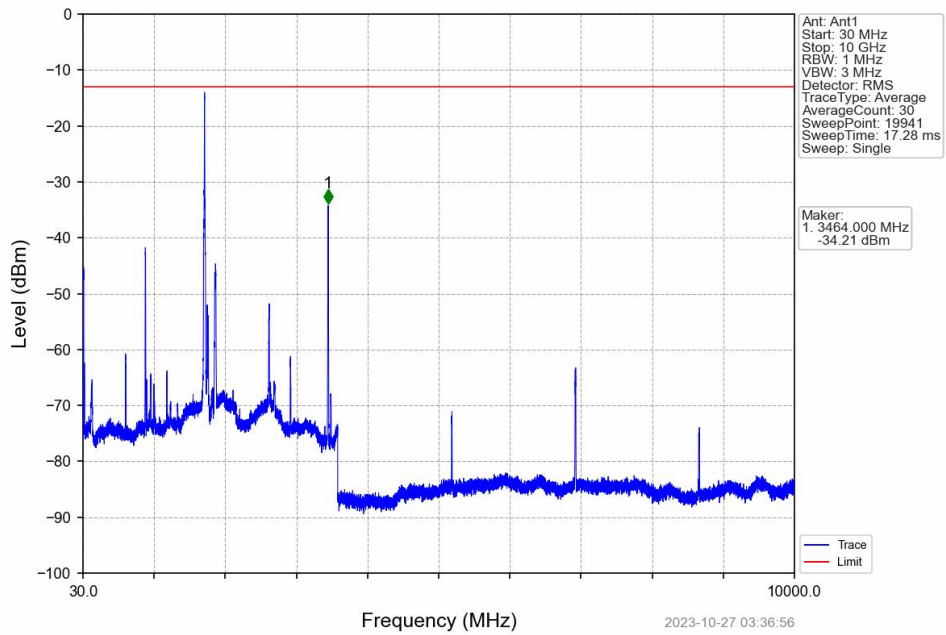
6.1.2 Test Graph



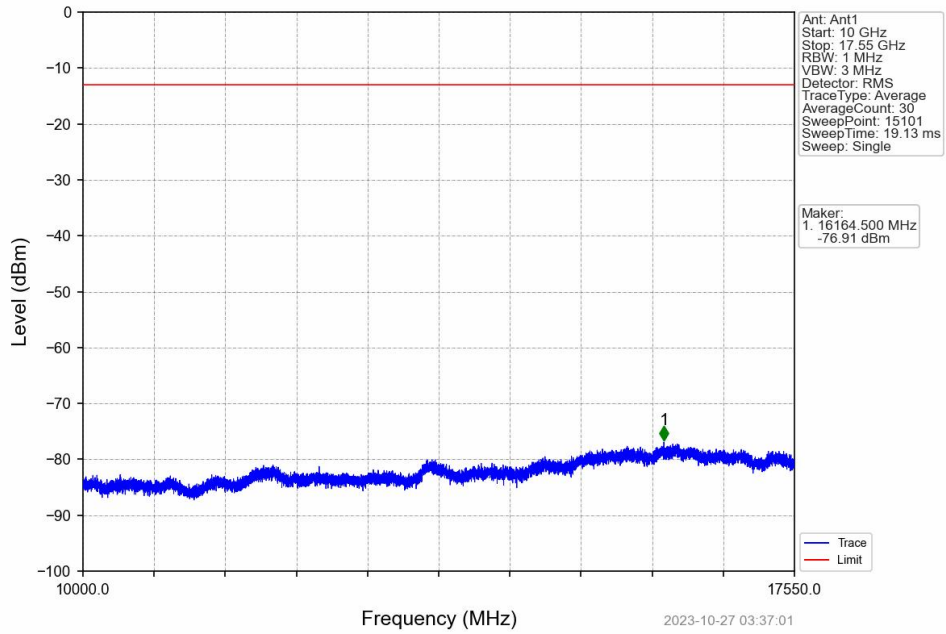
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



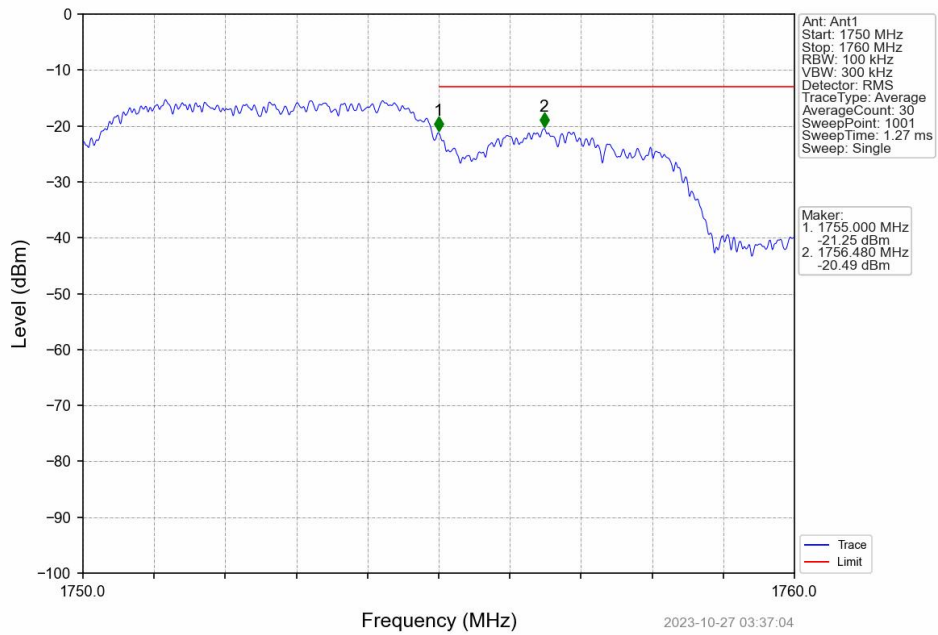
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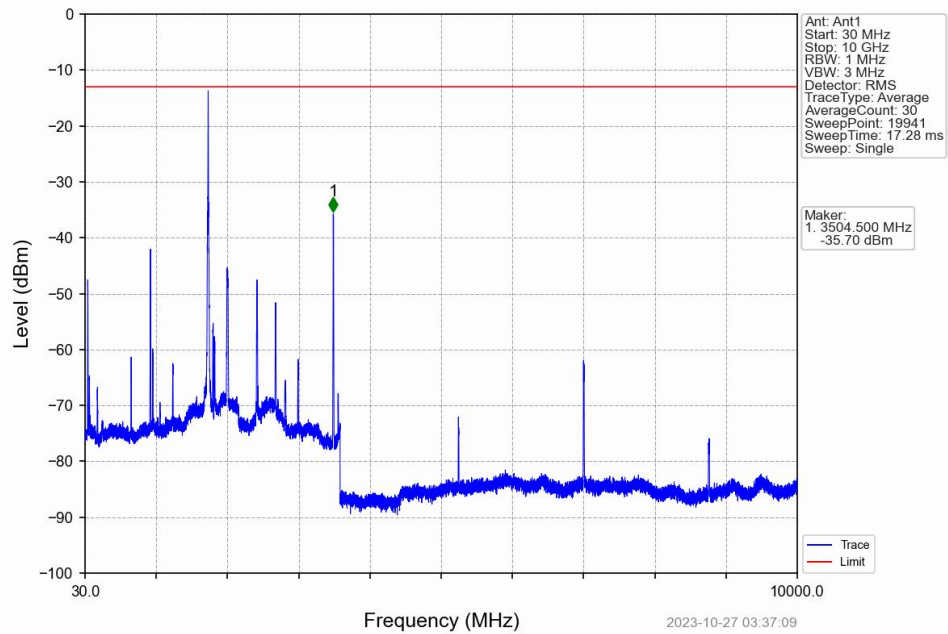
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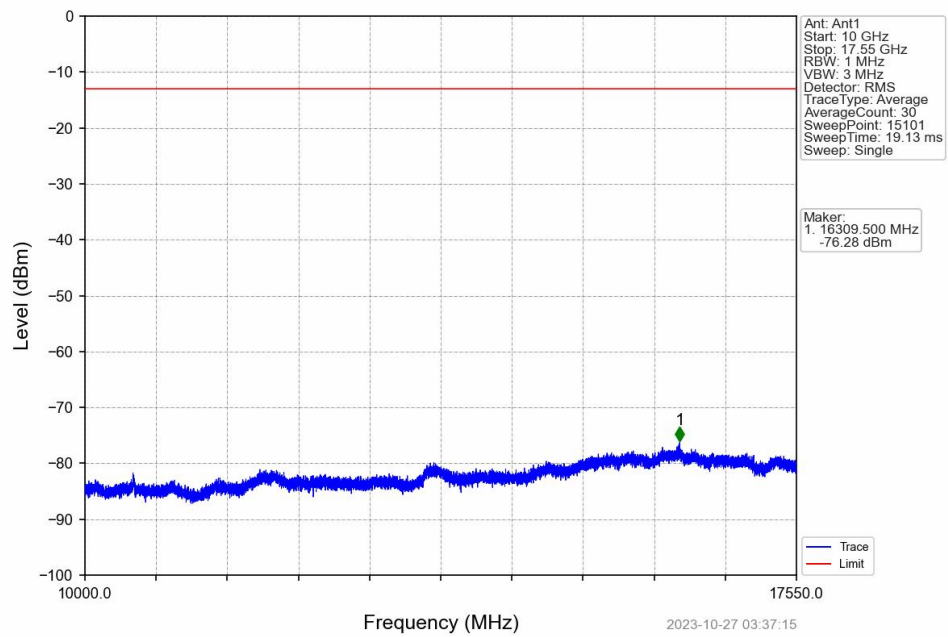
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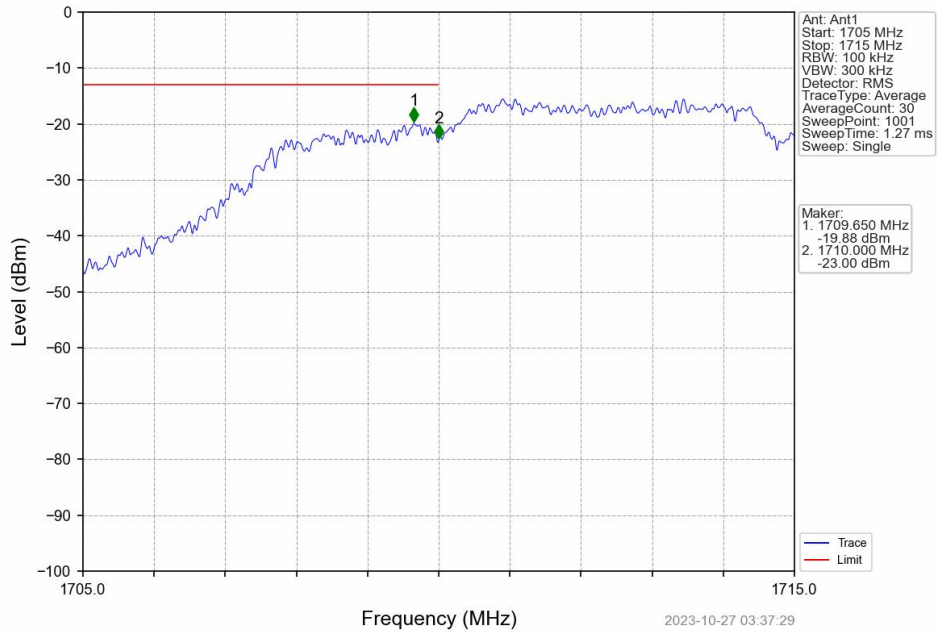
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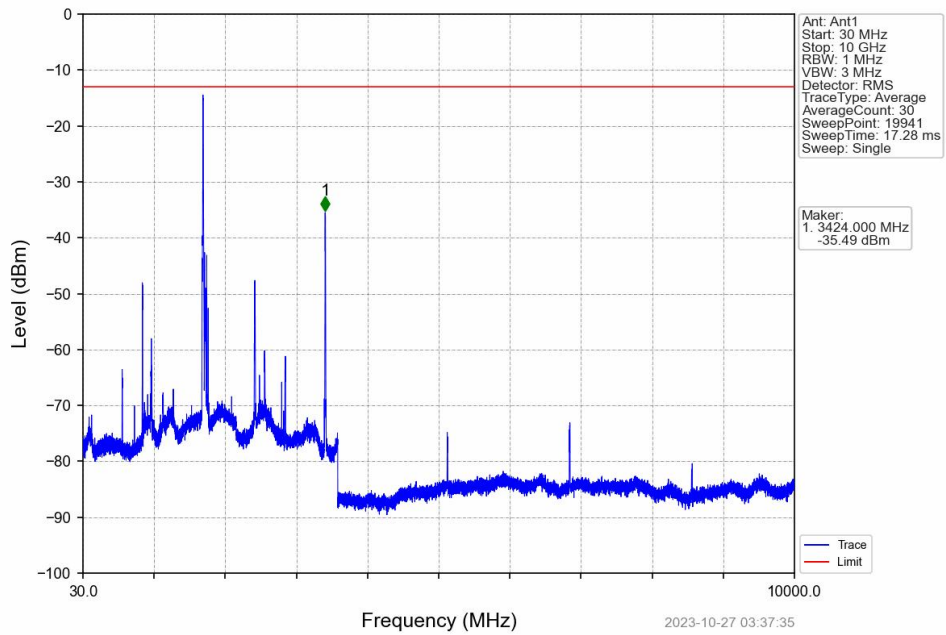
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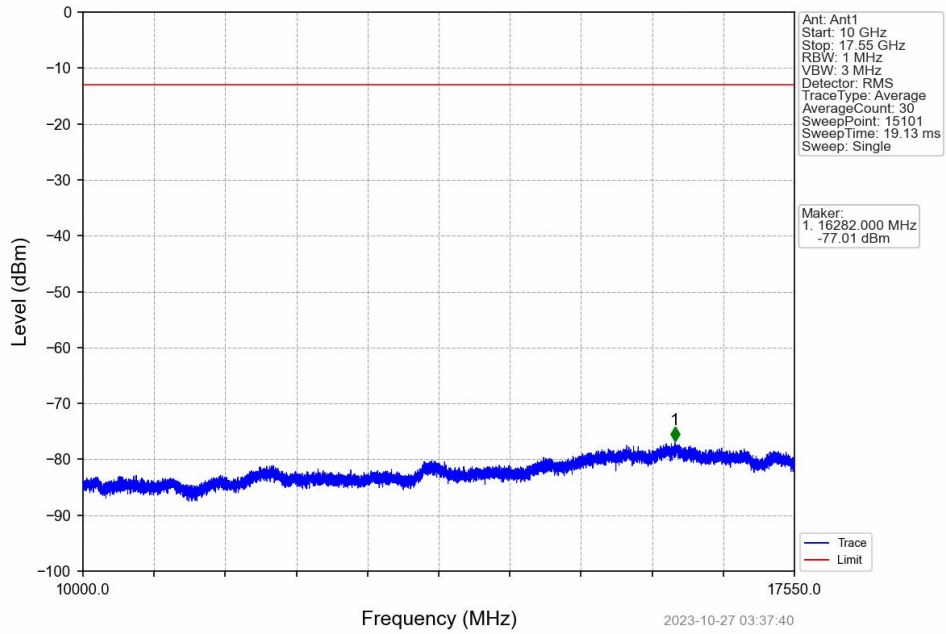
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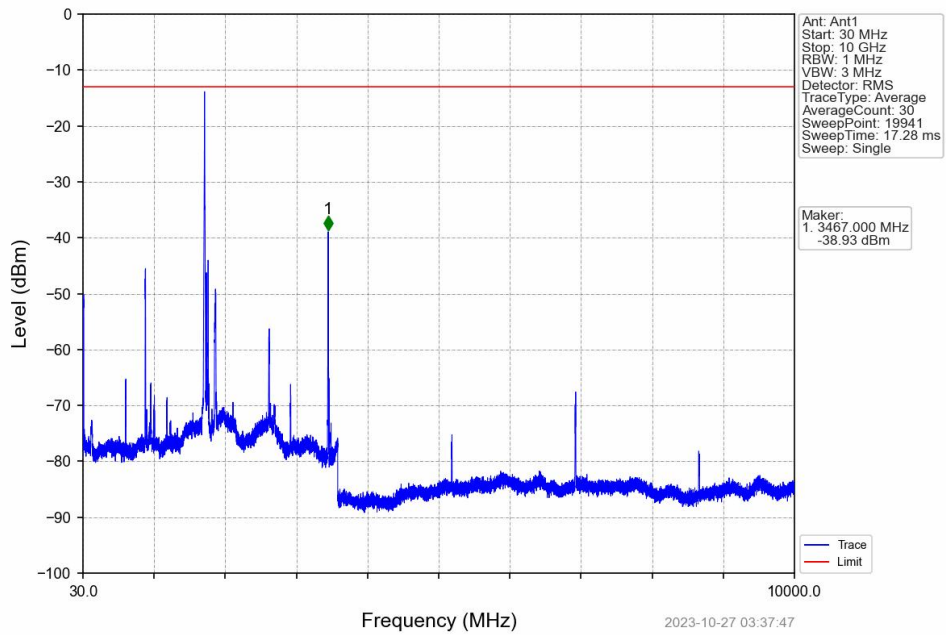
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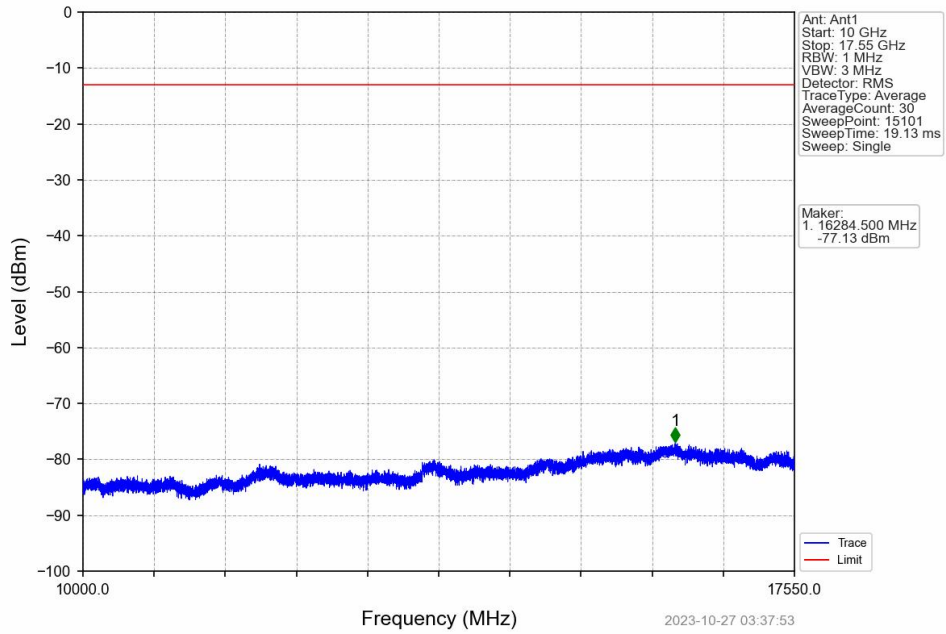
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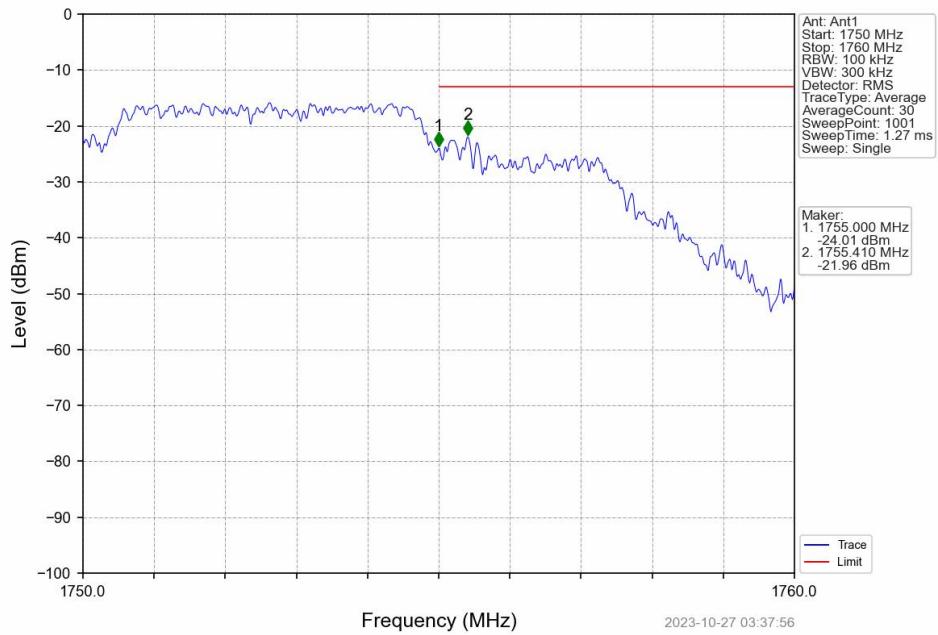
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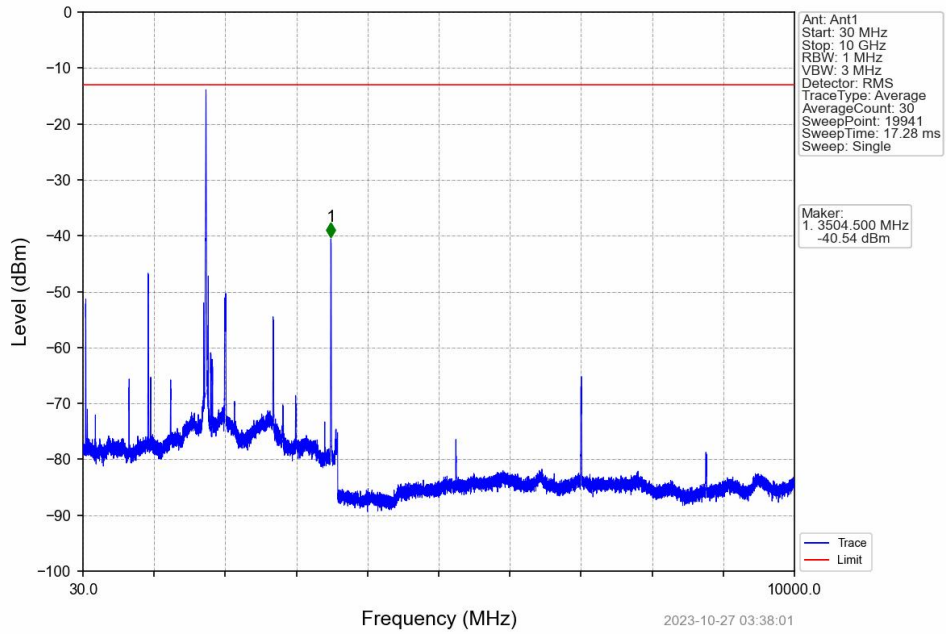
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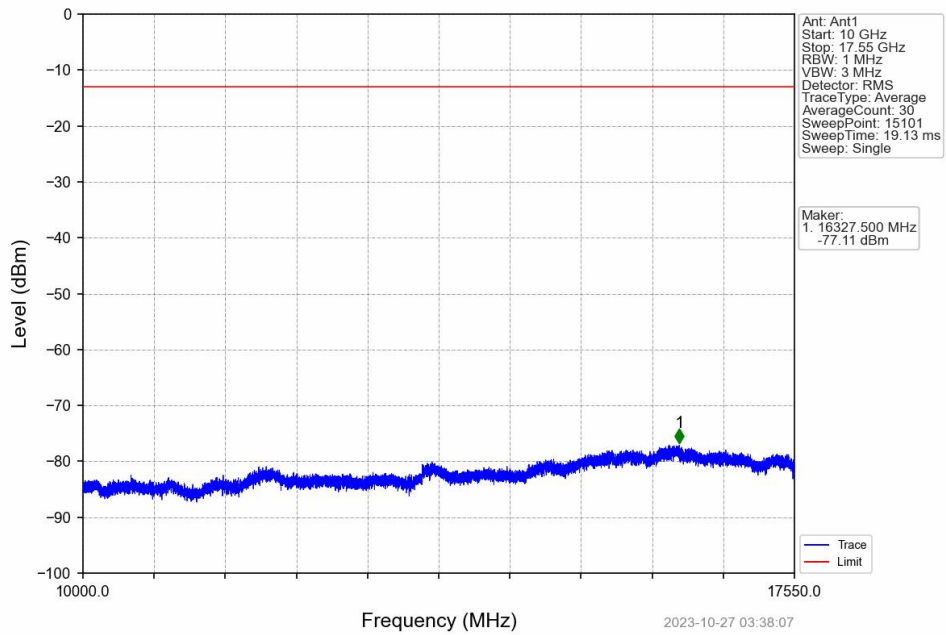
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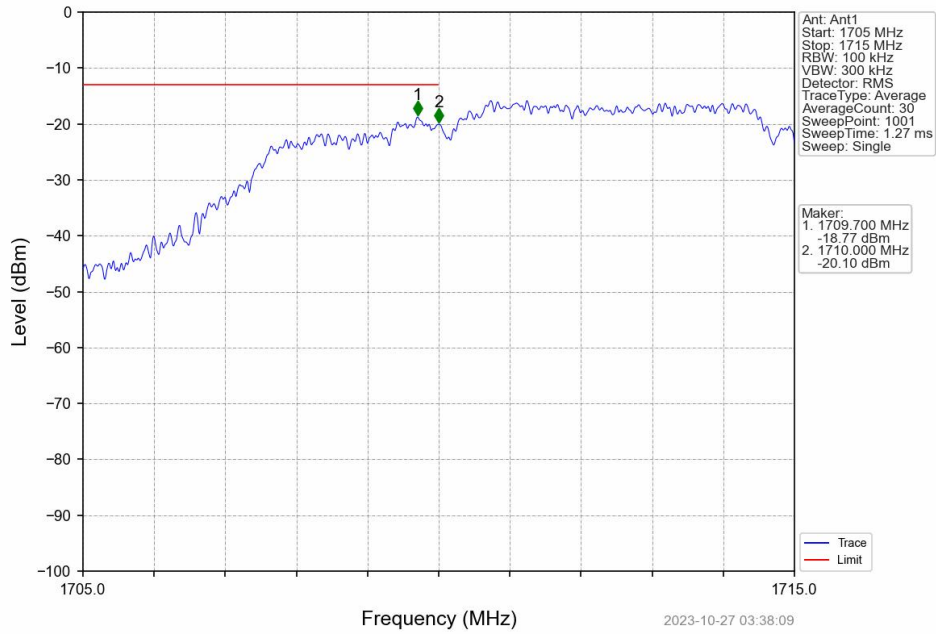
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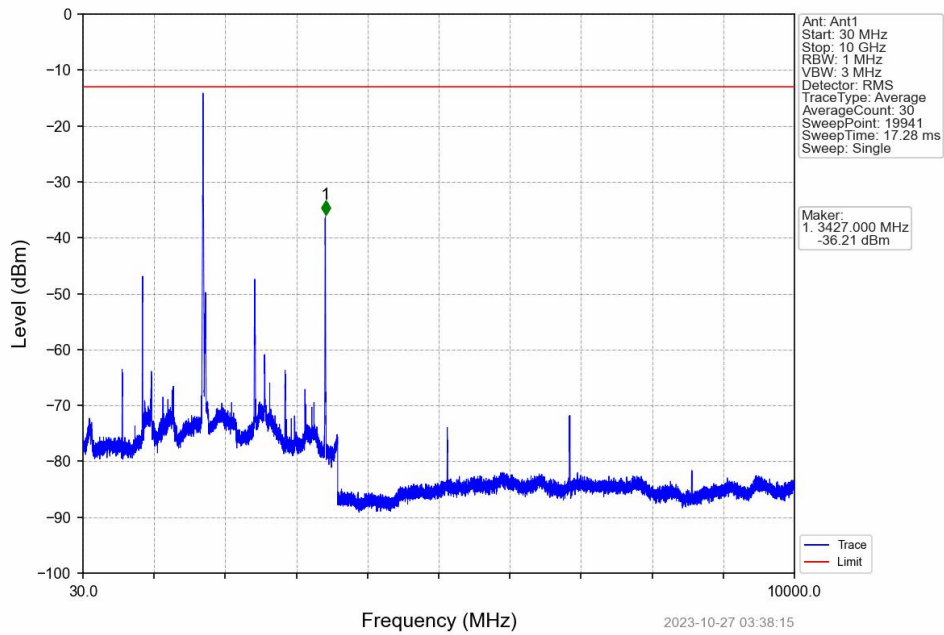
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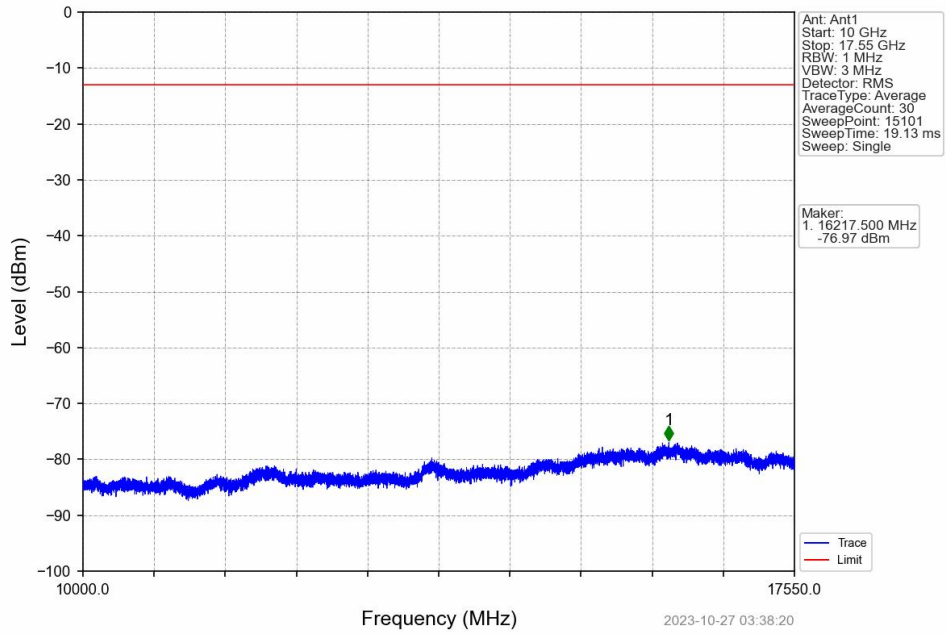
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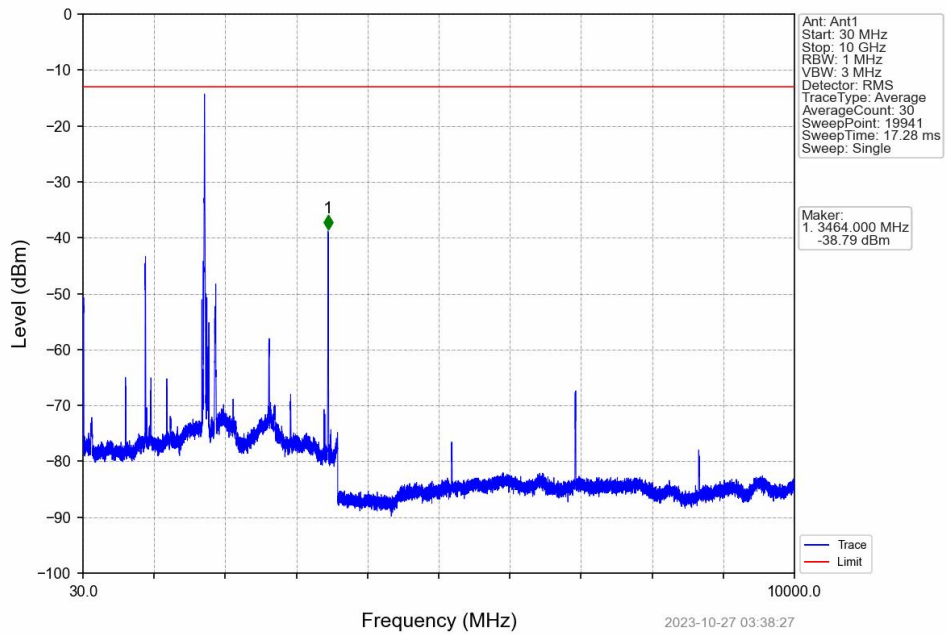
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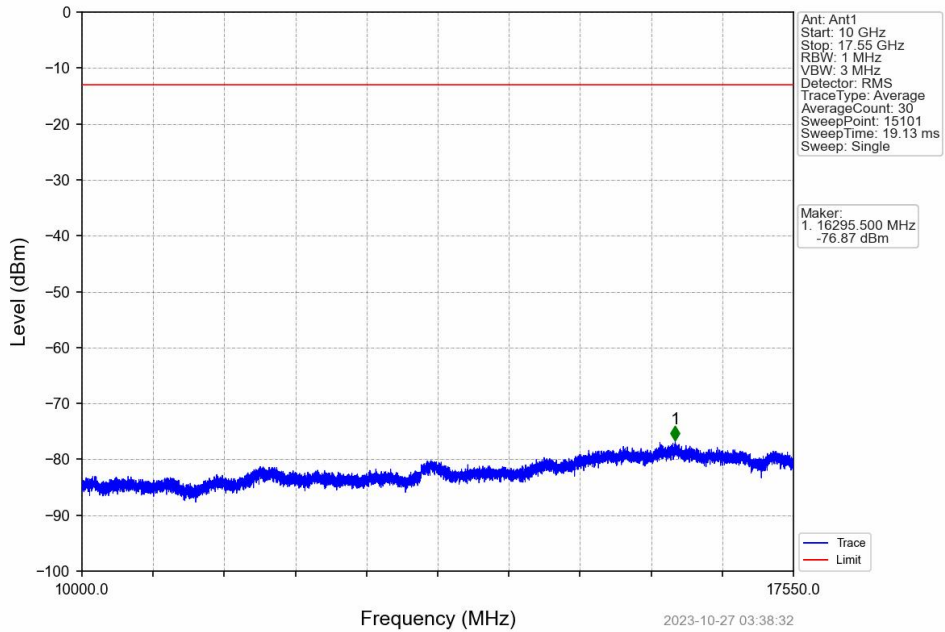
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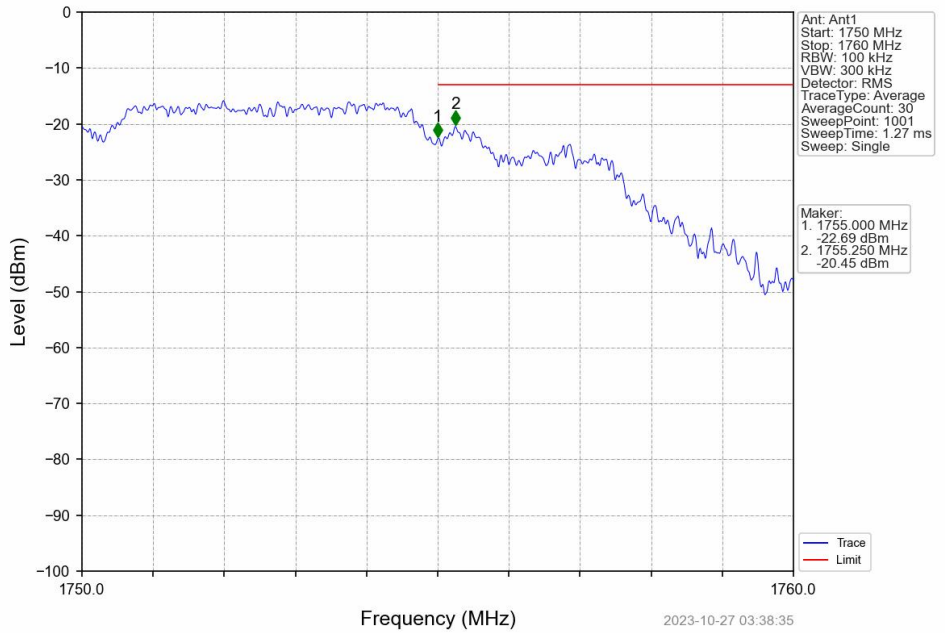
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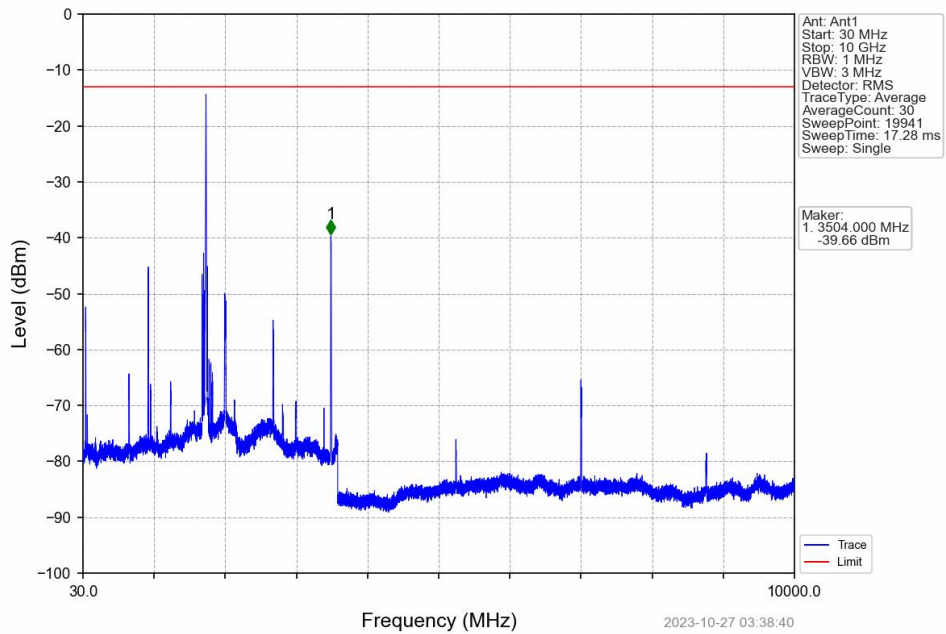
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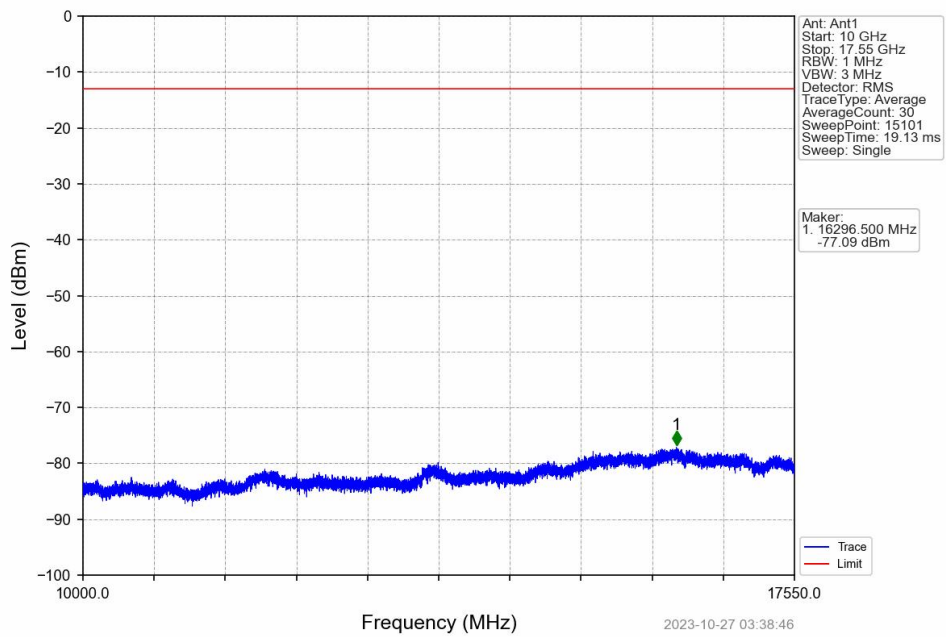
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.1227	0.0166	ppm	4M21F9W	24E	20.89

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.1611	0.0166	ppm	4M21F9W	24E	22.07