

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 BandV_ERP

Band: V									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	826.4	24.63	-4.06	18.42	<=38.45	Pass	
			836.6	24.56	-4.06	18.35	<=38.45	Pass	
			846.6	24.49	-4.06	18.28	<=38.45	Pass	
	HSDPA	Subtest 1	826.4	22.14	-4.06	15.93	<=38.45	Pass	
		Subtest 2	826.4	22.14	-4.06	15.93	<=38.45	Pass	
		Subtest 3	826.4	22.13	-4.06	15.92	<=38.45	Pass	
		Subtest 4	826.4	22.14	-4.06	15.93	<=38.45	Pass	
		Subtest 1	836.6	22.01	-4.06	15.80	<=38.45	Pass	
		Subtest 2	836.6	22.03	-4.06	15.82	<=38.45	Pass	
		Subtest 3	836.6	22.01	-4.06	15.80	<=38.45	Pass	
		Subtest 4	836.6	22.02	-4.06	15.81	<=38.45	Pass	
		Subtest 1	846.6	21.94	-4.06	15.73	<=38.45	Pass	
		Subtest 2	846.6	21.97	-4.06	15.76	<=38.45	Pass	
		Subtest 3	846.6	21.97	-4.06	15.76	<=38.45	Pass	
		Subtest 4	846.6	21.97	-4.06	15.76	<=38.45	Pass	
		HSUPA	Subtest 1	826.4	19.60	-4.06	13.39	<=38.45	Pass
			Subtest 2	826.4	20.07	-4.06	13.86	<=38.45	Pass
			Subtest 3	826.4	19.78	-4.06	13.57	<=38.45	Pass
			Subtest 4	826.4	19.78	-4.06	13.57	<=38.45	Pass
			Subtest 5	826.4	20.05	-4.06	13.84	<=38.45	Pass
			Subtest 1	836.6	19.66	-4.06	13.45	<=38.45	Pass
			Subtest 2	836.6	19.93	-4.06	13.72	<=38.45	Pass
	Subtest 3		836.6	19.64	-4.06	13.43	<=38.45	Pass	
	Subtest 4		836.6	19.70	-4.06	13.49	<=38.45	Pass	
	Subtest 5		836.6	20.79	-4.06	14.58	<=38.45	Pass	
	Subtest 1		846.6	19.91	-4.06	13.70	<=38.45	Pass	
	Subtest 2		846.6	19.95	-4.06	13.74	<=38.45	Pass	
	Subtest 3		846.6	19.90	-4.06	13.69	<=38.45	Pass	
Subtest 4	846.6		19.92	-4.06	13.71	<=38.45	Pass		
Subtest 5	846.6		20.78	-4.06	14.57	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 BandV

Band: V								
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
RMC	826.4	20	LV	-0.215	-0.0003	-2.5 to 2.5	Pass	
			NV	-0.644	-0.0008	-2.5 to 2.5	Pass	
			HV	-1.352	-0.0016	-2.5 to 2.5	Pass	
		-30	NV	-1.352	-0.0016	-2.5 to 2.5	Pass	
		-20	NV	-1.180	-0.0014	-2.5 to 2.5	Pass	
		-10	NV	-1.287	-0.0016	-2.5 to 2.5	Pass	
		0	NV	-0.372	-0.0005	-2.5 to 2.5	Pass	
		10	NV	-1.523	-0.0018	-2.5 to 2.5	Pass	
		30	NV	-0.679	-0.0008	-2.5 to 2.5	Pass	
		40	NV	-1.180	-0.0014	-2.5 to 2.5	Pass	
	50	NV	-0.629	-0.0008	-2.5 to 2.5	Pass		
	836.6	20	LV	-0.694	-0.0008	-2.5 to 2.5	Pass	
			NV	-0.794	-0.0009	-2.5 to 2.5	Pass	
			HV	-0.408	-0.0005	-2.5 to 2.5	Pass	
		-30	NV	-0.343	-0.0004	-2.5 to 2.5	Pass	
		-20	NV	-0.508	-0.0006	-2.5 to 2.5	Pass	
		-10	NV	-3.748	-0.0045	-2.5 to 2.5	Pass	
		0	NV	-0.772	-0.0009	-2.5 to 2.5	Pass	
		10	NV	-0.243	-0.0003	-2.5 to 2.5	Pass	
		30	NV	-0.150	-0.0002	-2.5 to 2.5	Pass	
		40	NV	-0.622	-0.0007	-2.5 to 2.5	Pass	
	50	NV	-0.064	-0.0001	-2.5 to 2.5	Pass		
	846.6	20	LV	0.615	0.0007	-2.5 to 2.5	Pass	
			NV	-0.107	-0.0001	-2.5 to 2.5	Pass	
			HV	0.043	0.0001	-2.5 to 2.5	Pass	
		-30	NV	-1.445	-0.0017	-2.5 to 2.5	Pass	
		-20	NV	0.780	0.0009	-2.5 to 2.5	Pass	
		-10	NV	0.036	0.0000	-2.5 to 2.5	Pass	
		0	NV	0.243	0.0003	-2.5 to 2.5	Pass	
		10	NV	1.516	0.0018	-2.5 to 2.5	Pass	
		30	NV	0.908	0.0011	-2.5 to 2.5	Pass	
		40	NV	0.572	0.0007	-2.5 to 2.5	Pass	
	50	NV	0.844	0.0010	-2.5 to 2.5	Pass		
	HSDPA	826.4	20	LV	-5.836	-0.0071	-2.5 to 2.5	Pass
				NV	-6.731	-0.0081	-2.5 to 2.5	Pass
				HV	-6.115	-0.0074	-2.5 to 2.5	Pass
-30			NV	-6.588	-0.0080	-2.5 to 2.5	Pass	
-20			NV	-5.844	-0.0071	-2.5 to 2.5	Pass	
-10			NV	-5.300	-0.0064	-2.5 to 2.5	Pass	
0			NV	-6.773	-0.0082	-2.5 to 2.5	Pass	
10			NV	-4.528	-0.0055	-2.5 to 2.5	Pass	
30			NV	-4.570	-0.0055	-2.5 to 2.5	Pass	
40			NV	-3.984	-0.0048	-2.5 to 2.5	Pass	
50		NV	-4.227	-0.0051	-2.5 to 2.5	Pass		
836.6		20	LV	-5.007	-0.0060	-2.5 to 2.5	Pass	
			NV	-3.119	-0.0037	-2.5 to 2.5	Pass	
			HV	-5.107	-0.0061	-2.5 to 2.5	Pass	

	846.6	-30	NV	-4.156	-0.0050	-2.5 to 2.5	Pass
		-20	NV	-2.904	-0.0035	-2.5 to 2.5	Pass
		-10	NV	-4.599	-0.0055	-2.5 to 2.5	Pass
		0	NV	-2.854	-0.0034	-2.5 to 2.5	Pass
		10	NV	-4.478	-0.0054	-2.5 to 2.5	Pass
		30	NV	-4.520	-0.0054	-2.5 to 2.5	Pass
		40	NV	-3.741	-0.0045	-2.5 to 2.5	Pass
	50	NV	-3.998	-0.0048	-2.5 to 2.5	Pass	
	846.6	20	LV	-6.824	-0.0081	-2.5 to 2.5	Pass
			NV	-5.643	-0.0067	-2.5 to 2.5	Pass
			HV	-5.901	-0.0070	-2.5 to 2.5	Pass
		-30	NV	-5.193	-0.0061	-2.5 to 2.5	Pass
		-20	NV	-5.050	-0.0060	-2.5 to 2.5	Pass
		-10	NV	-5.686	-0.0067	-2.5 to 2.5	Pass
		0	NV	-5.980	-0.0071	-2.5 to 2.5	Pass
		10	NV	-5.829	-0.0069	-2.5 to 2.5	Pass
		30	NV	-5.651	-0.0067	-2.5 to 2.5	Pass
40		NV	-4.027	-0.0048	-2.5 to 2.5	Pass	
50	NV	-4.900	-0.0058	-2.5 to 2.5	Pass		
HSUPA	826.4	20	LV	-0.343	-0.0004	-2.5 to 2.5	Pass
			NV	-0.694	-0.0008	-2.5 to 2.5	Pass
			HV	0.858	0.0010	-2.5 to 2.5	Pass
		-30	NV	0.486	0.0006	-2.5 to 2.5	Pass
		-20	NV	0.229	0.0003	-2.5 to 2.5	Pass
		-10	NV	-0.744	-0.0009	-2.5 to 2.5	Pass
		0	NV	-0.300	-0.0004	-2.5 to 2.5	Pass
		10	NV	-0.844	-0.0010	-2.5 to 2.5	Pass
		30	NV	-0.958	-0.0012	-2.5 to 2.5	Pass
		40	NV	0.107	0.0001	-2.5 to 2.5	Pass
	50	NV	-0.644	-0.0008	-2.5 to 2.5	Pass	
	836.6	20	LV	-0.308	-0.0004	-2.5 to 2.5	Pass
			NV	1.774	0.0021	-2.5 to 2.5	Pass
			HV	0.086	0.0001	-2.5 to 2.5	Pass
		-30	NV	-1.109	-0.0013	-2.5 to 2.5	Pass
		-20	NV	-0.408	-0.0005	-2.5 to 2.5	Pass
		-10	NV	-2.203	-0.0026	-2.5 to 2.5	Pass
0		NV	-1.194	-0.0014	-2.5 to 2.5	Pass	
10		NV	-0.908	-0.0011	-2.5 to 2.5	Pass	
30	NV	-0.858	-0.0010	-2.5 to 2.5	Pass		
40	NV	-1.180	-0.0014	-2.5 to 2.5	Pass		
50	NV	-1.037	-0.0012	-2.5 to 2.5	Pass		
846.6	20	LV	-0.930	-0.0011	-2.5 to 2.5	Pass	
		NV	0.050	0.0001	-2.5 to 2.5	Pass	
		HV	-0.100	-0.0001	-2.5 to 2.5	Pass	
	-30	NV	-0.994	-0.0012	-2.5 to 2.5	Pass	
	-20	NV	0.007	0.0000	-2.5 to 2.5	Pass	
	-10	NV	-0.944	-0.0011	-2.5 to 2.5	Pass	
	0	NV	0.064	0.0001	-2.5 to 2.5	Pass	
	10	NV	-0.708	-0.0008	-2.5 to 2.5	Pass	
	30	NV	-0.222	-0.0003	-2.5 to 2.5	Pass	
40	NV	0.057	0.0001	-2.5 to 2.5	Pass		
50	NV	0.021	0.0000	-2.5 to 2.5	Pass		

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandV_OBW

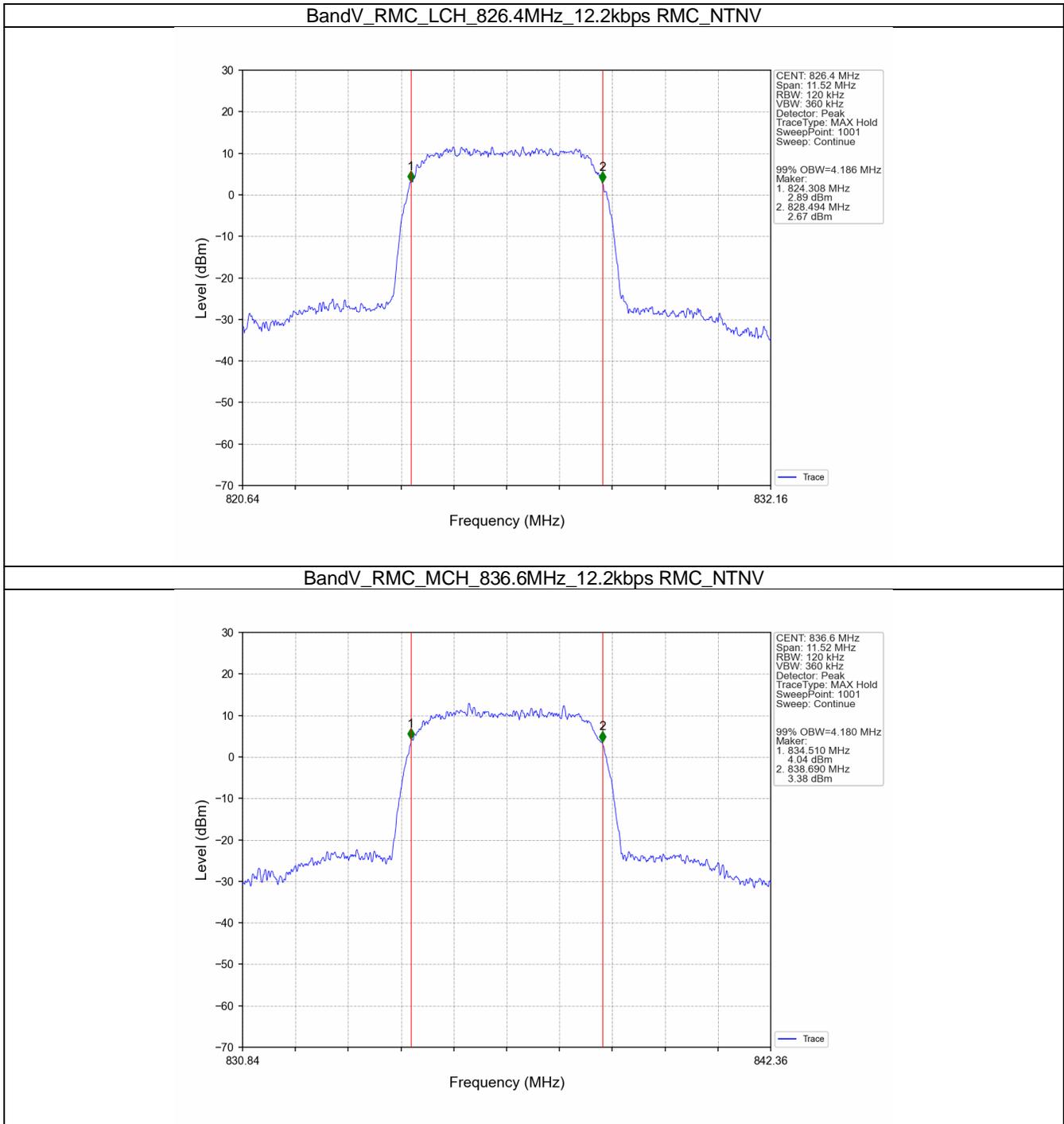
Band: V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.186	/	Pass
			836.6	4.180	/	Pass
			846.6	4.180	/	Pass
	HSDPA	Subtest 1	826.4	4.204	/	Pass
			836.6	4.189	/	Pass
			846.6	4.191	/	Pass
	HSUPA	Subtest 1	826.4	4.208	/	Pass
			836.6	4.205	/	Pass
			846.6	4.198	/	Pass

3.1.2 BandV_XDB

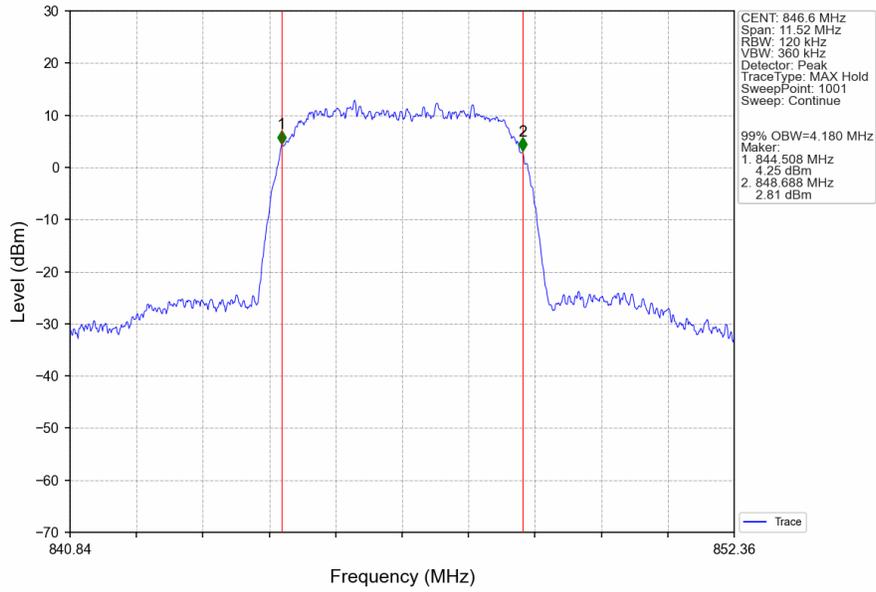
Band: V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.764	/	Pass
			836.6	4.757	/	Pass
			846.6	4.741	/	Pass
	HSDPA	Subtest 1	826.4	5.954	/	Pass
			836.6	4.728	/	Pass
			846.6	5.557	/	Pass
	HSUPA	Subtest 1	826.4	5.655	/	Pass
			836.6	5.642	/	Pass
			846.6	5.017	/	Pass

3.2 Test Graph

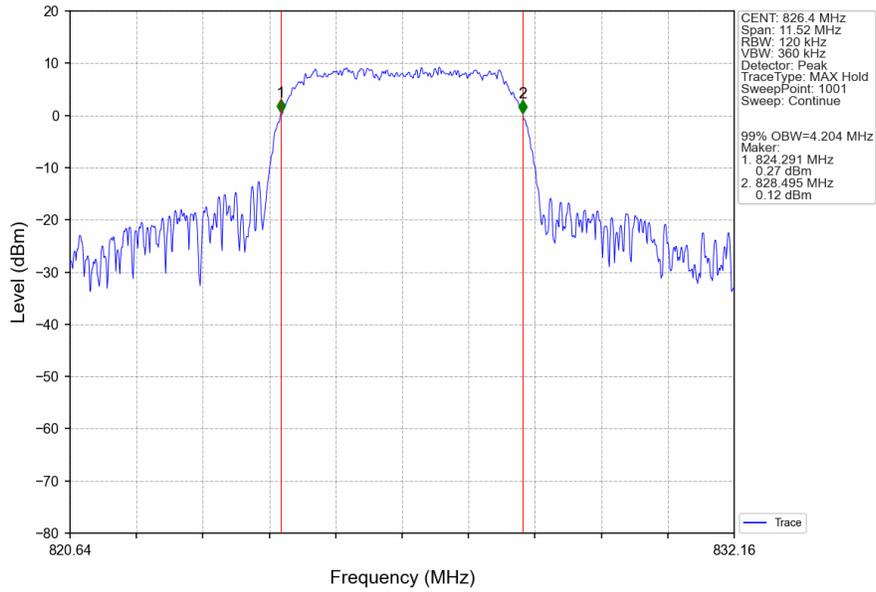
3.2.1 BandV_OBW



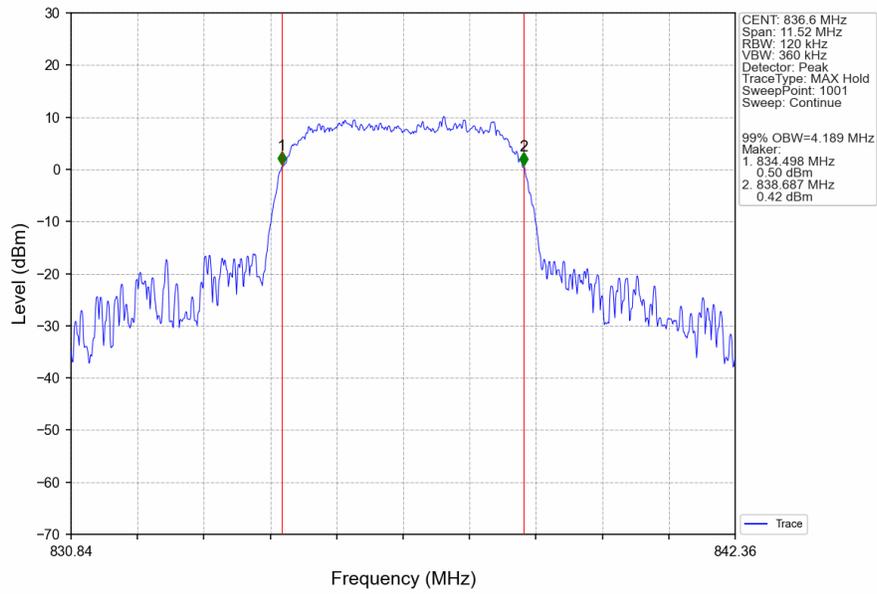
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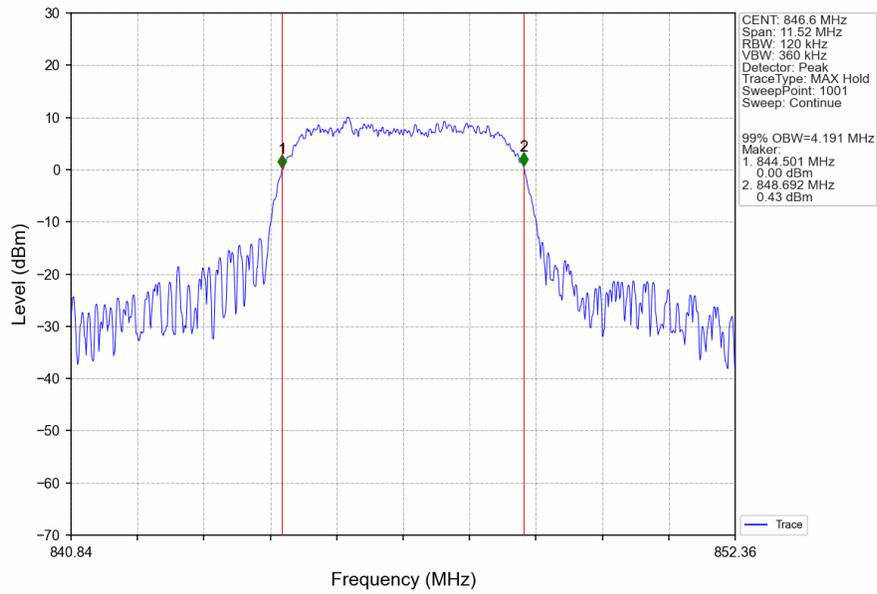
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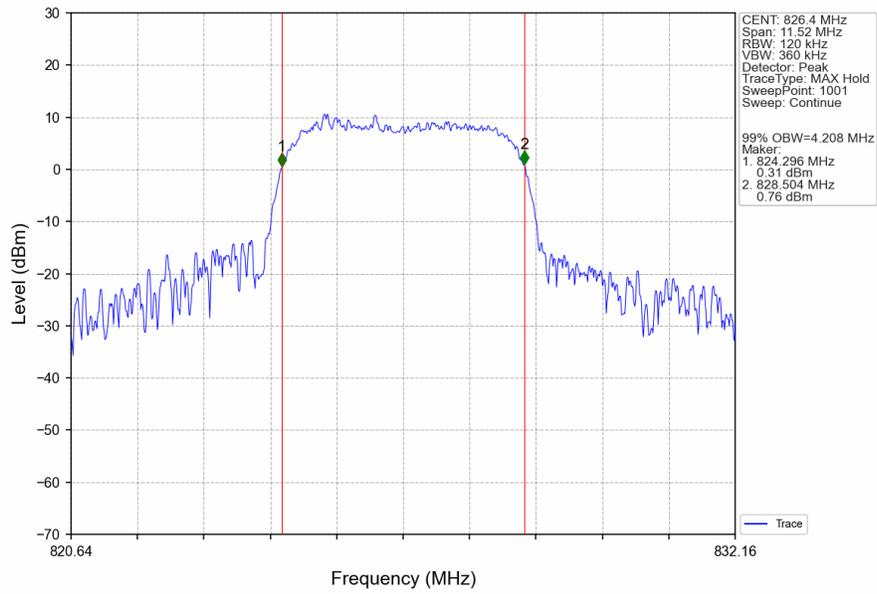
BandV_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



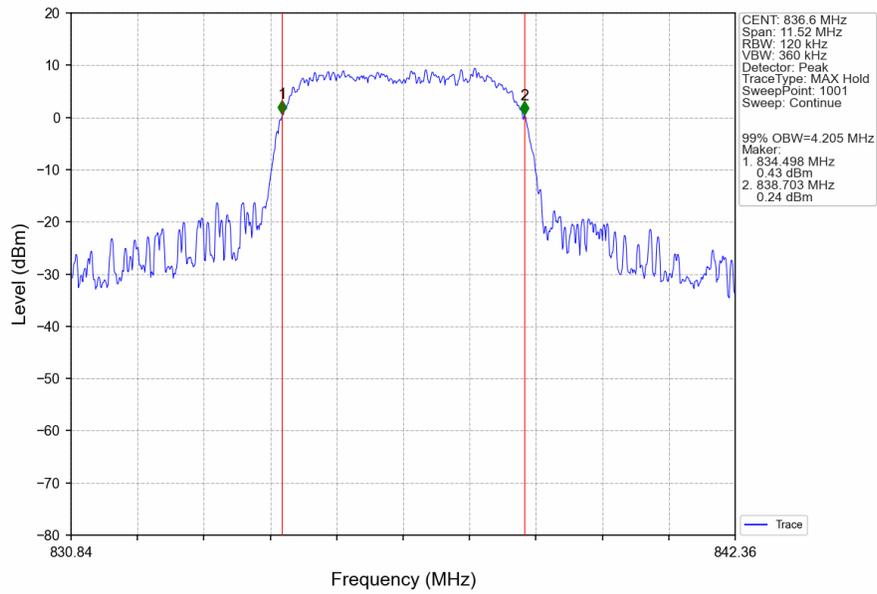
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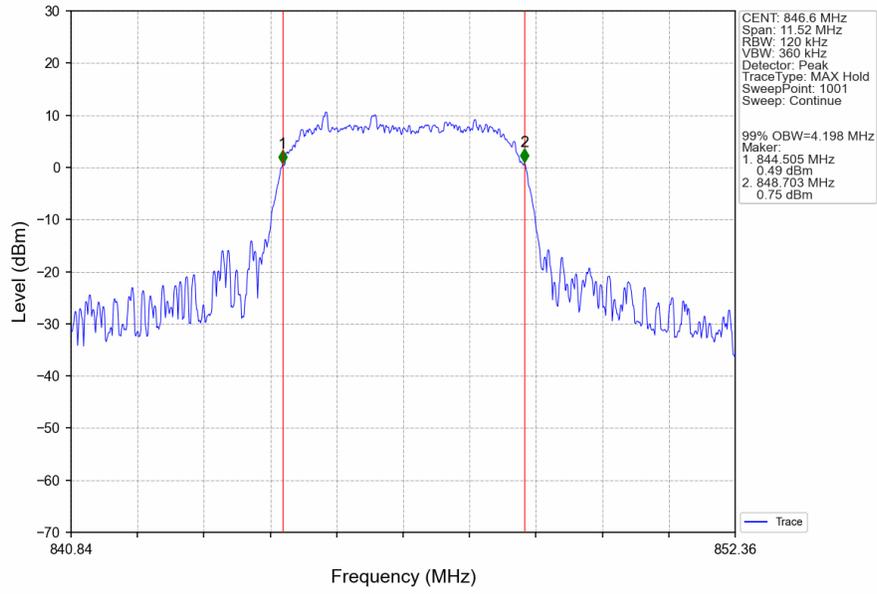
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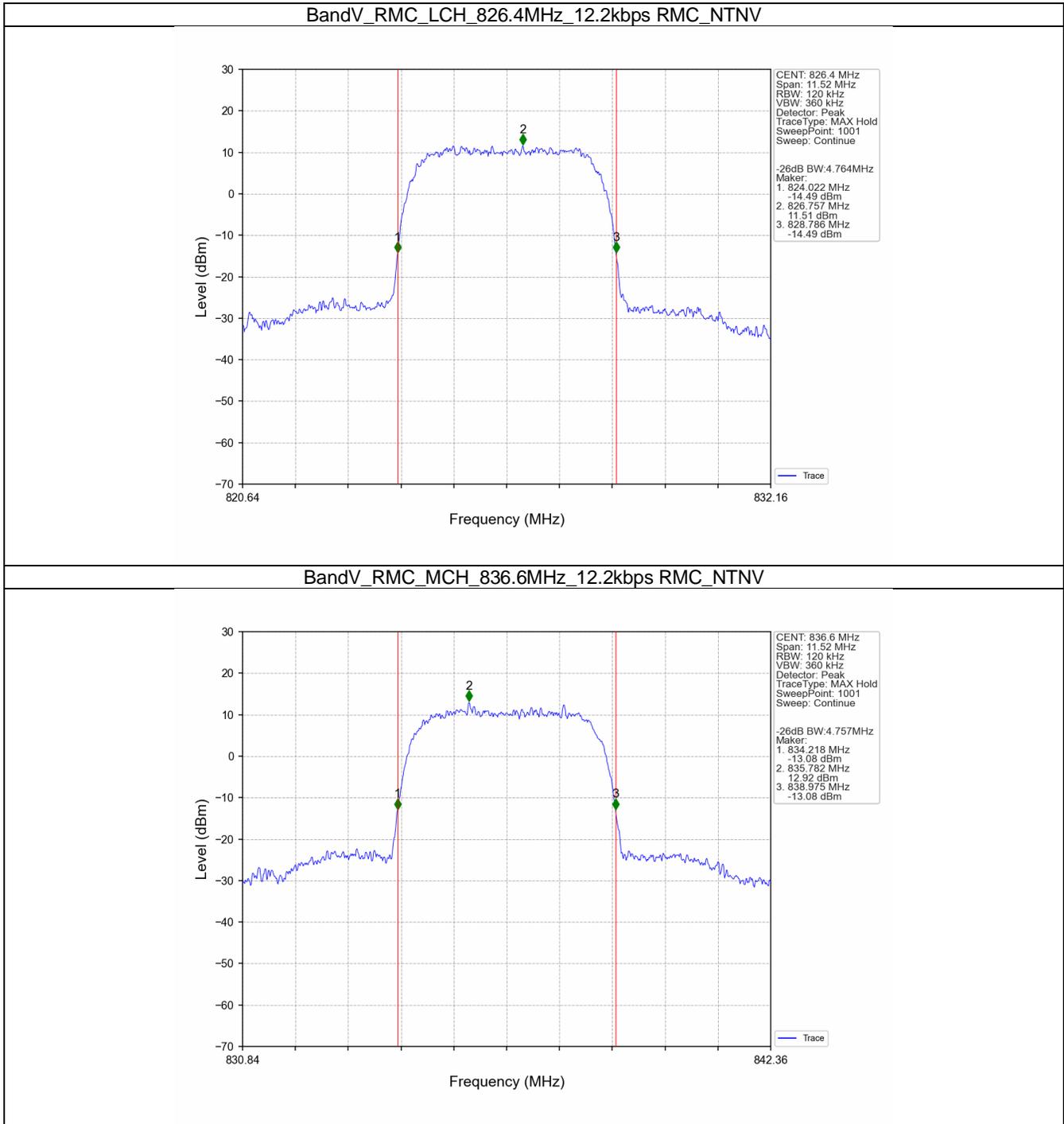
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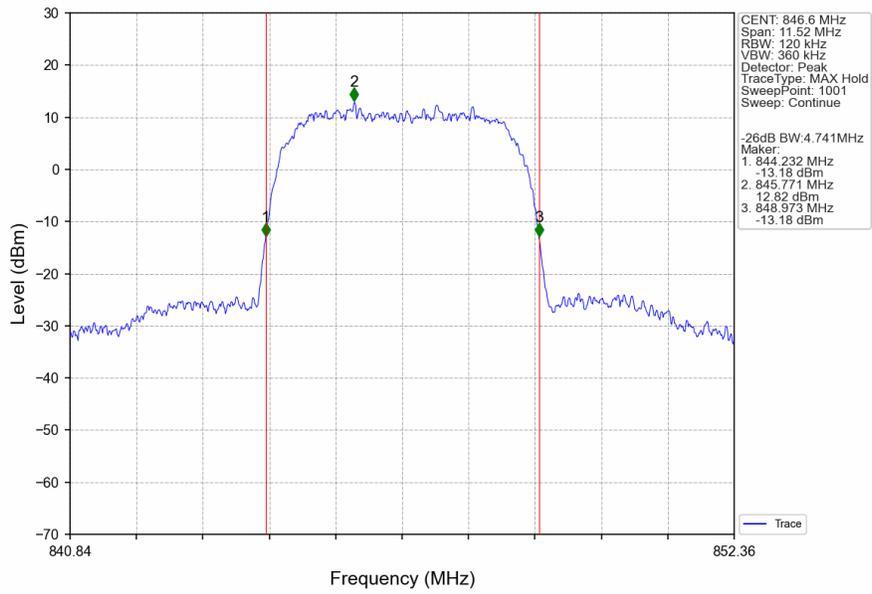
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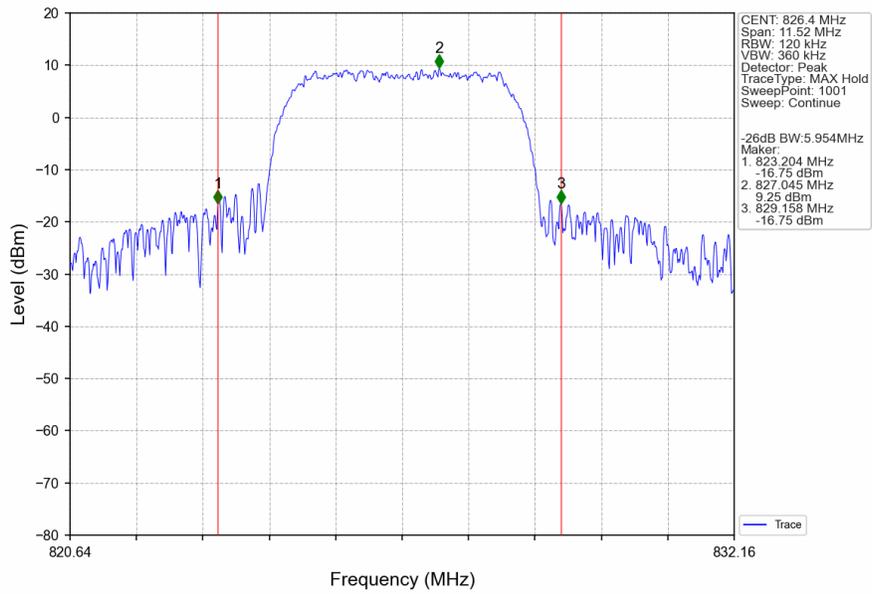
3.2.2 BandV_XDB



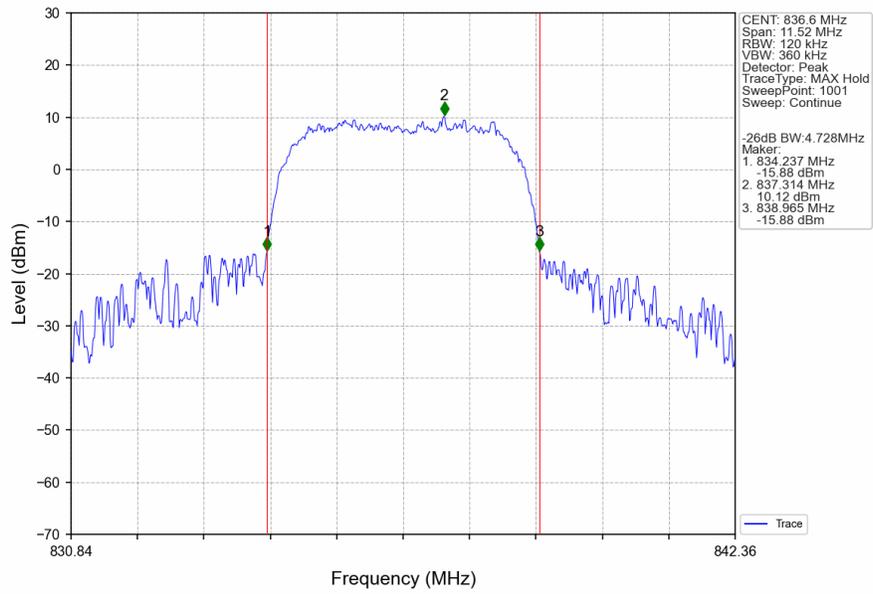
BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



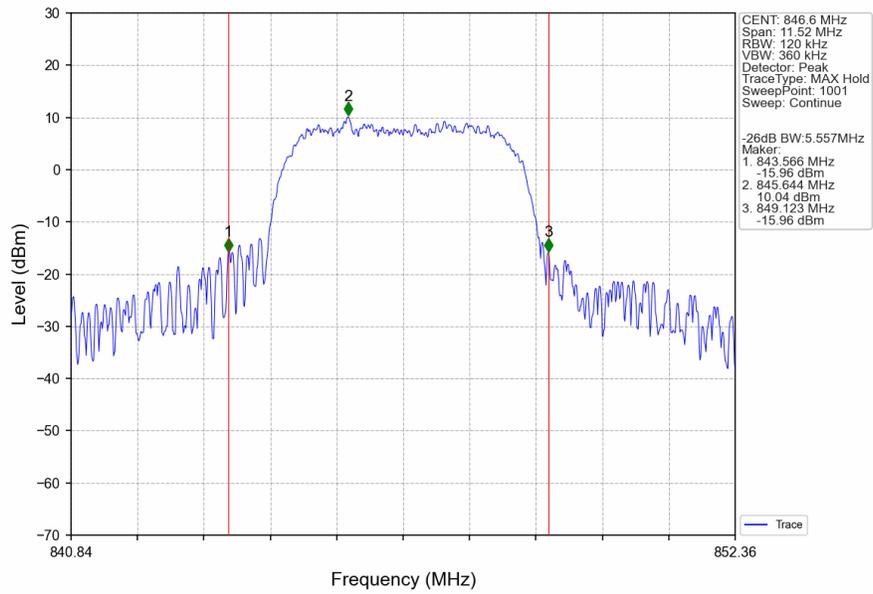
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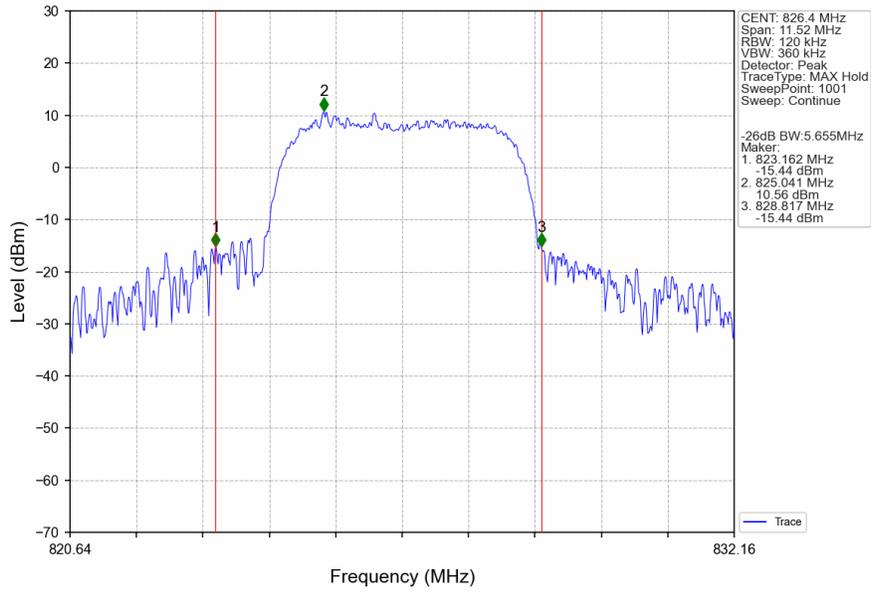
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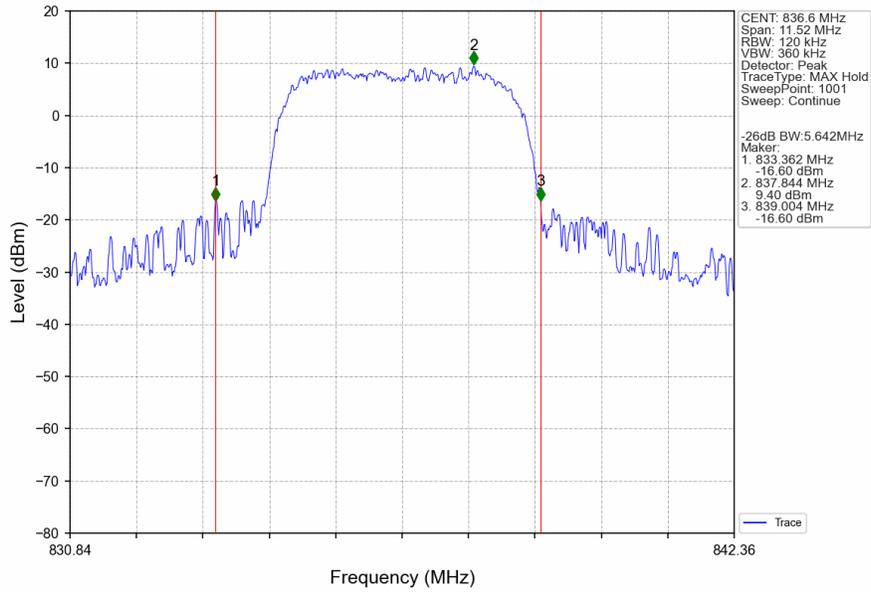
BandV_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



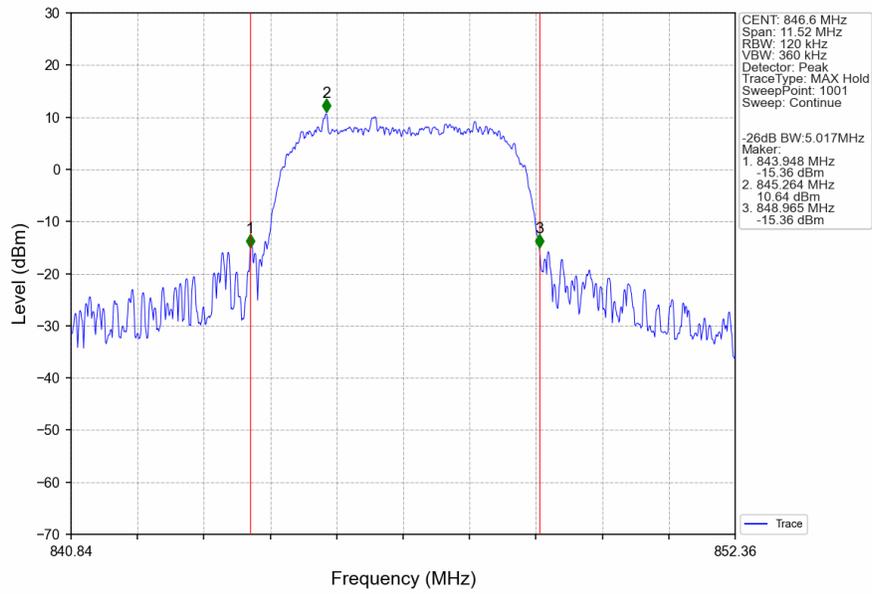
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BandV_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



BandV_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

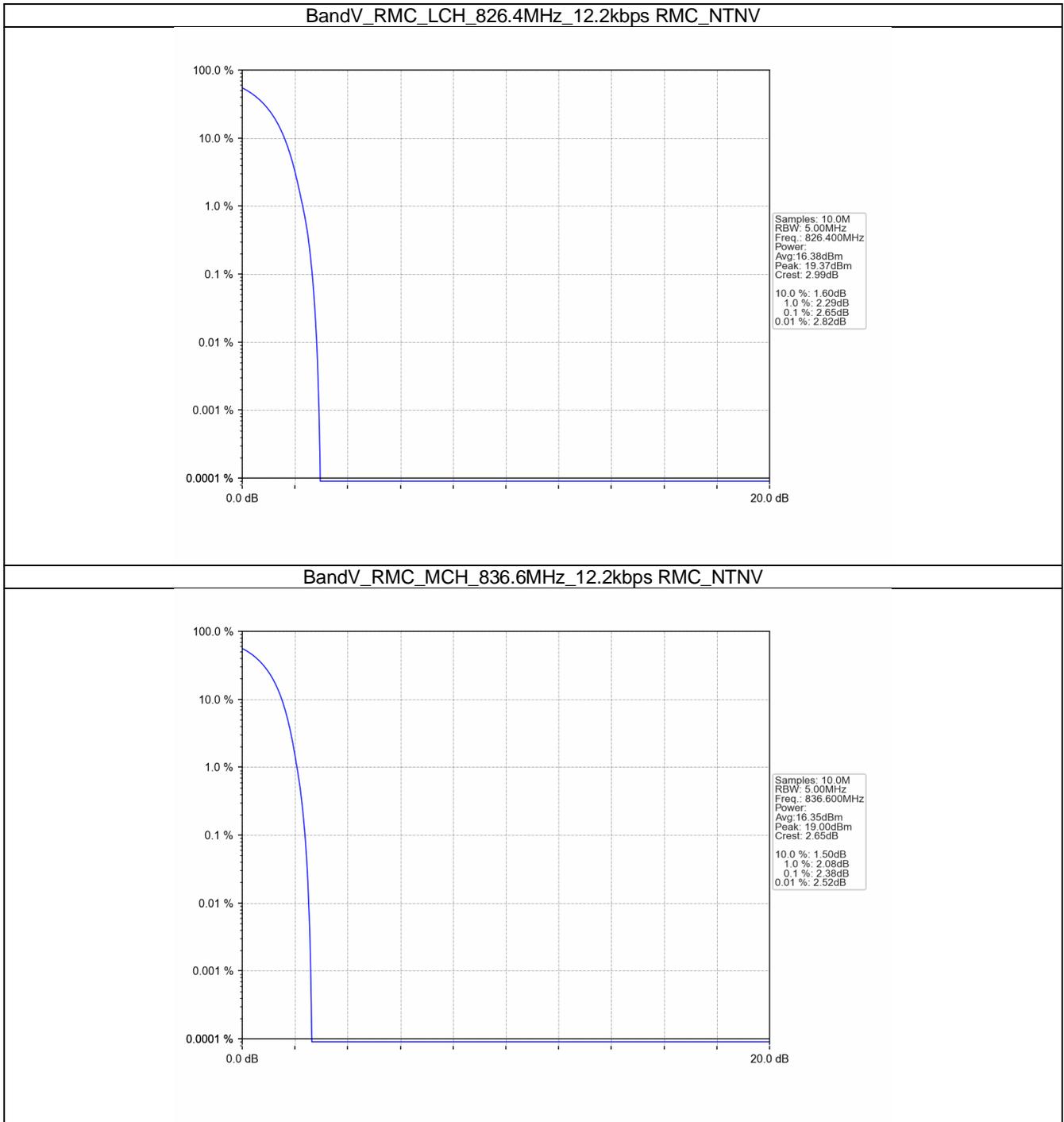
4.1 Test Result

4.1.1 BandV

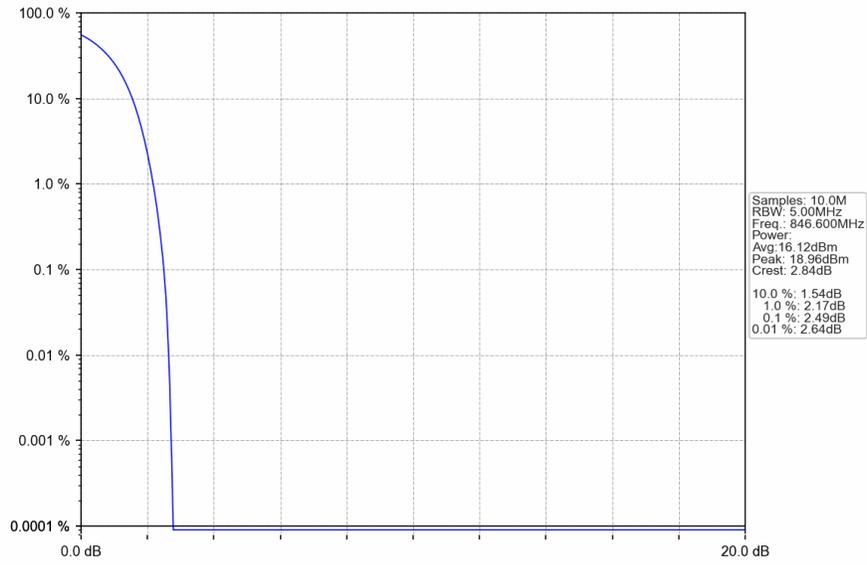
Band: V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.65	<=13	Pass
			836.6	2.38	<=13	Pass
			846.6	2.49	<=13	Pass
	HSDPA	Subtest 1	826.4	5.68	<=13	Pass
			836.6	5.53	<=13	Pass
			846.6	5.65	<=13	Pass
	HSUPA	Subtest 1	826.4	6.52	<=13	Pass
			836.6	6.24	<=13	Pass
			846.6	6.36	<=13	Pass

4.2 Test Graph

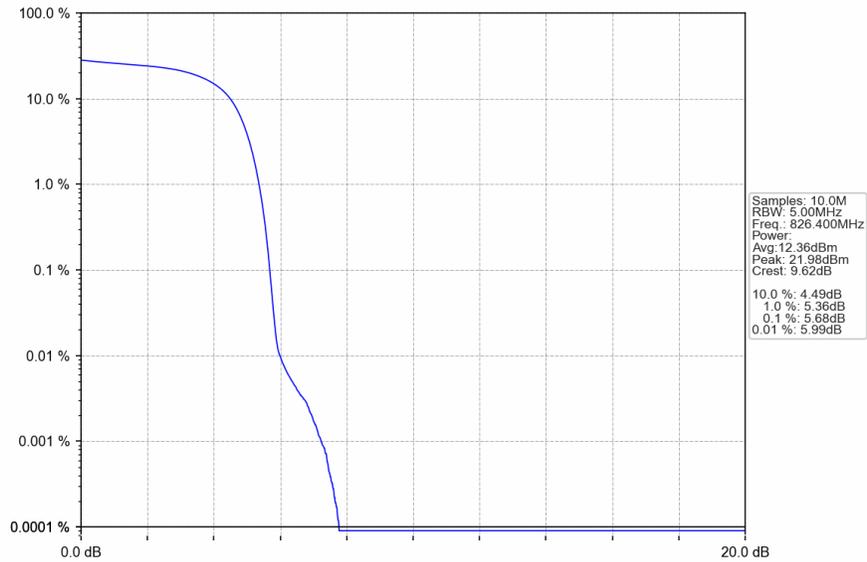
4.2.1 BandV



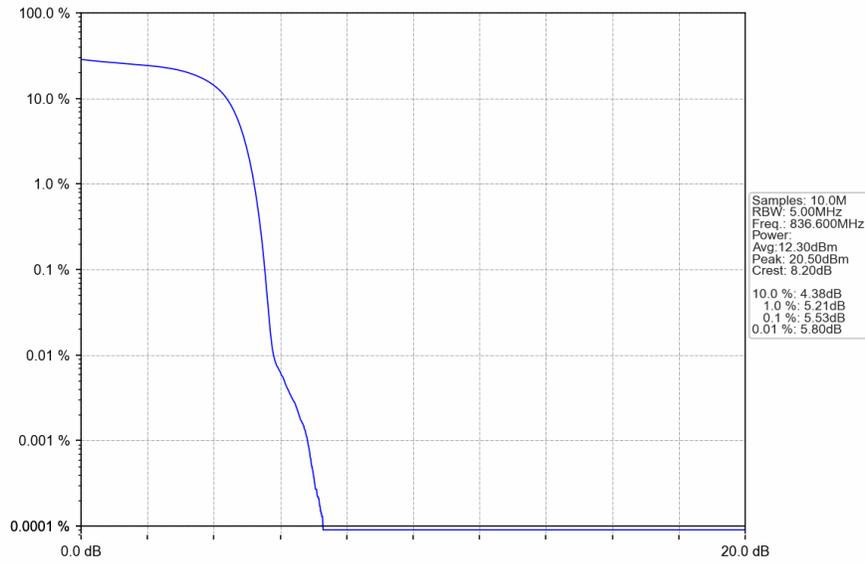
BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



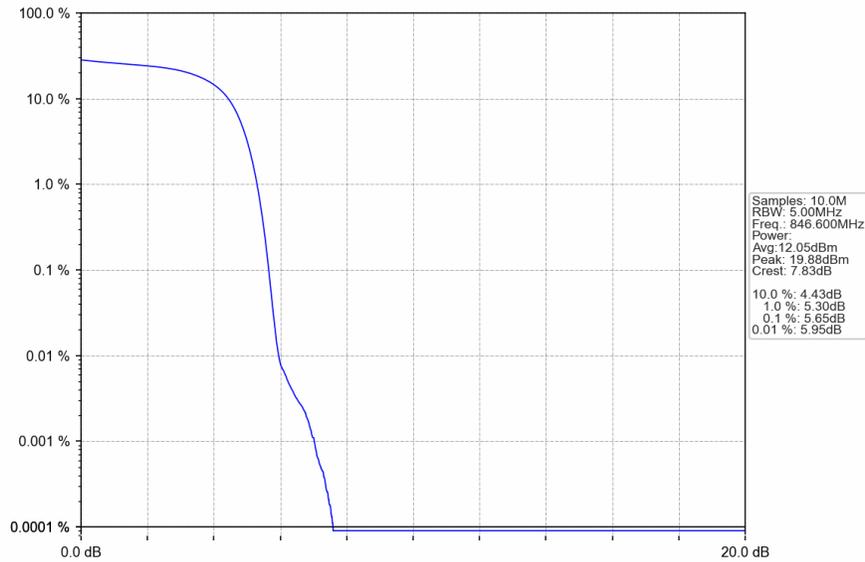
BandV_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



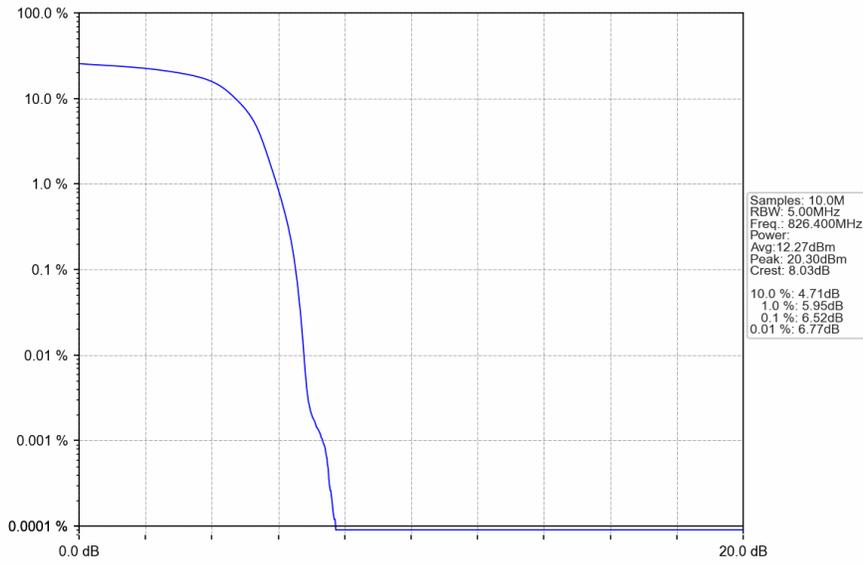
BandV_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



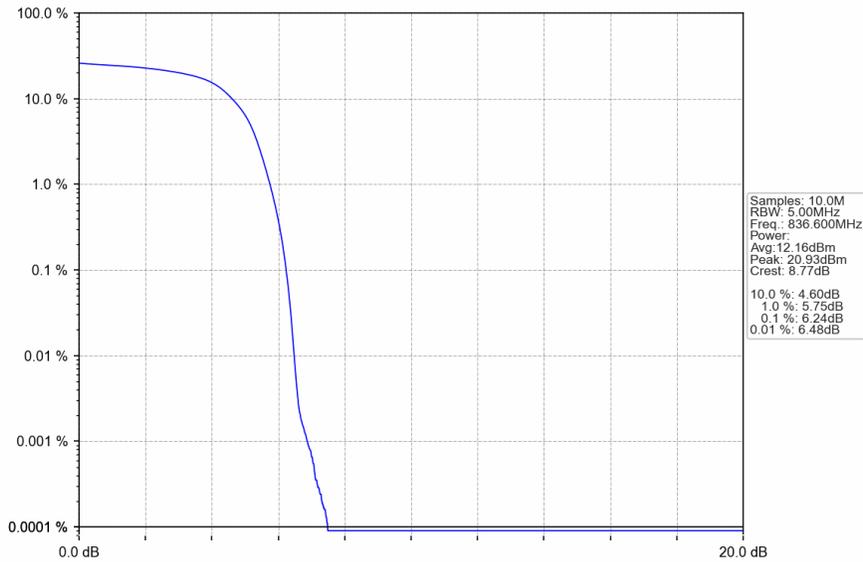
BandV_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



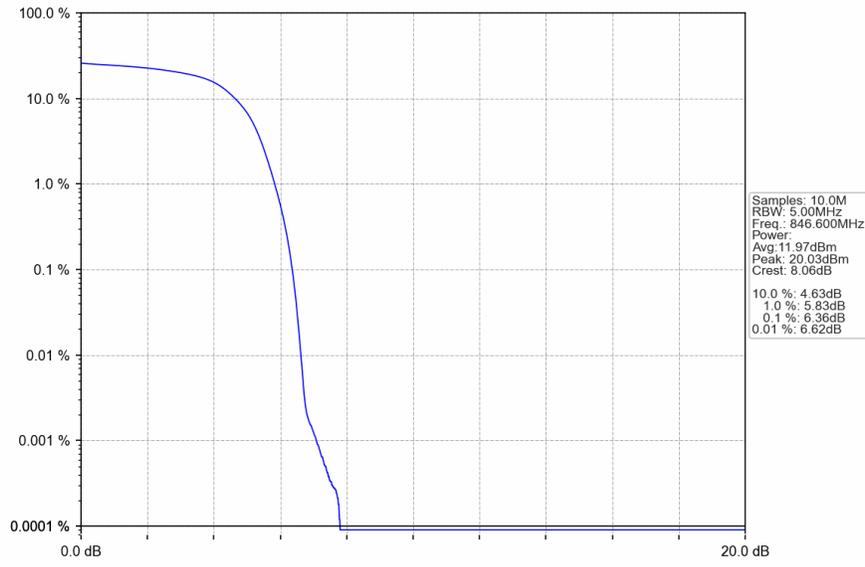
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BandV_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



BandV_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



5. Spurious Emission

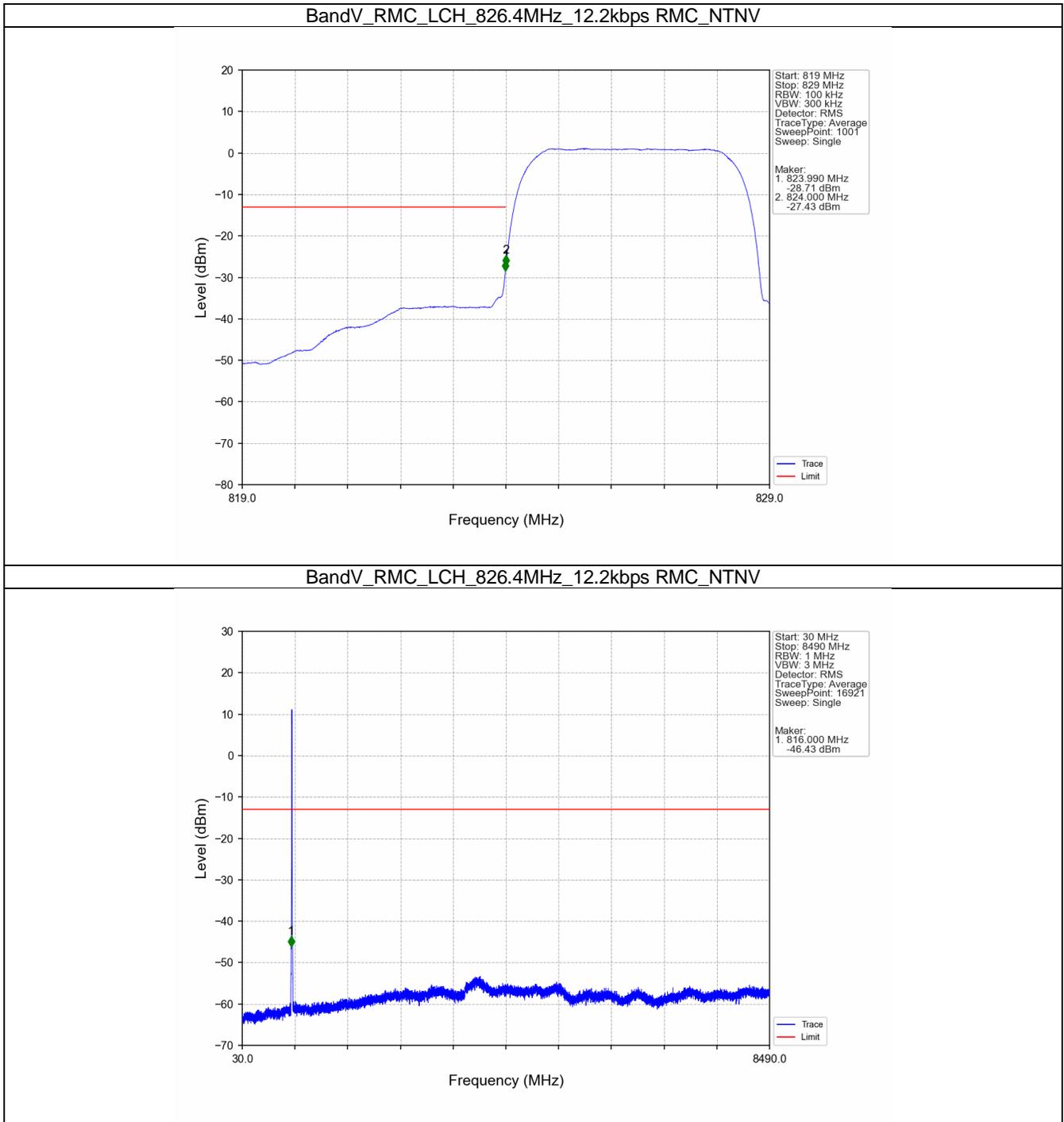
5.1 Test Result

5.1.1 BandV

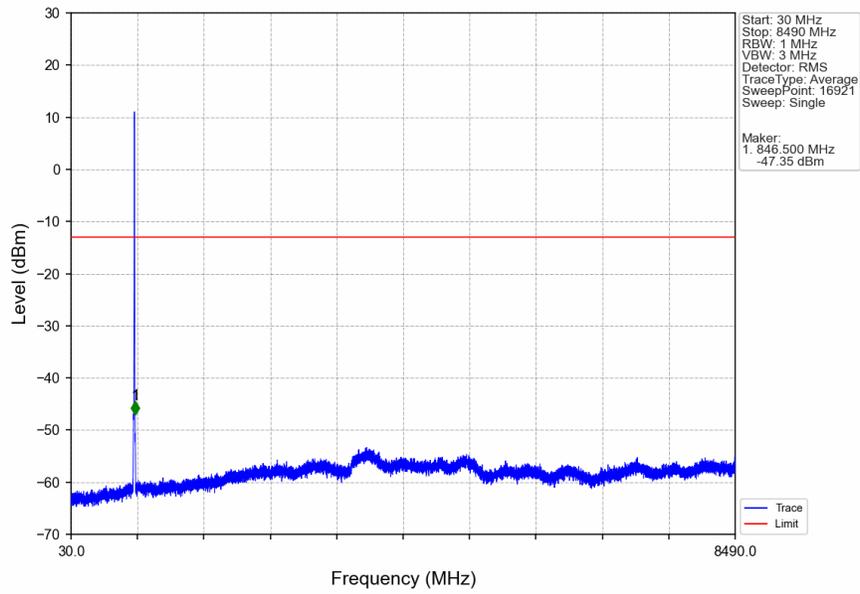
Band: V						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph	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

5.2 Test Graph

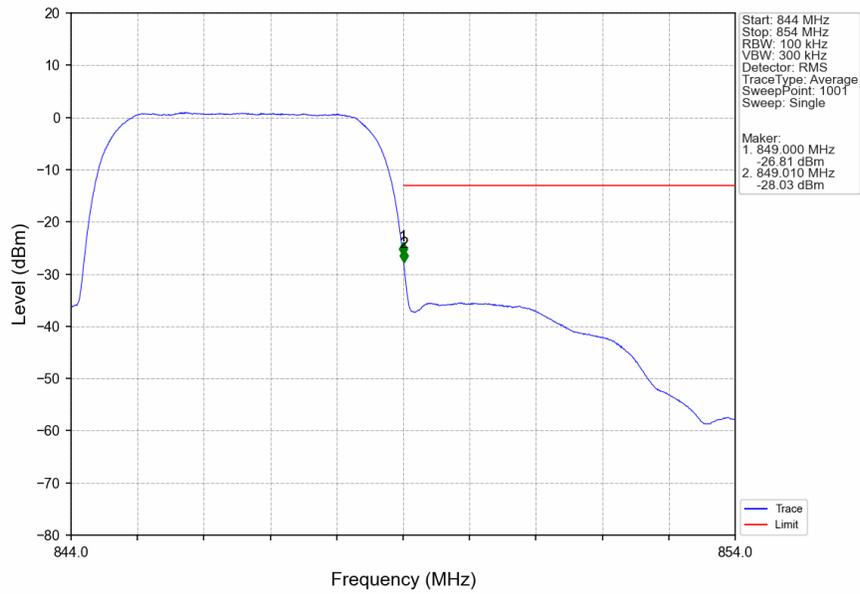
5.2.1 BandV



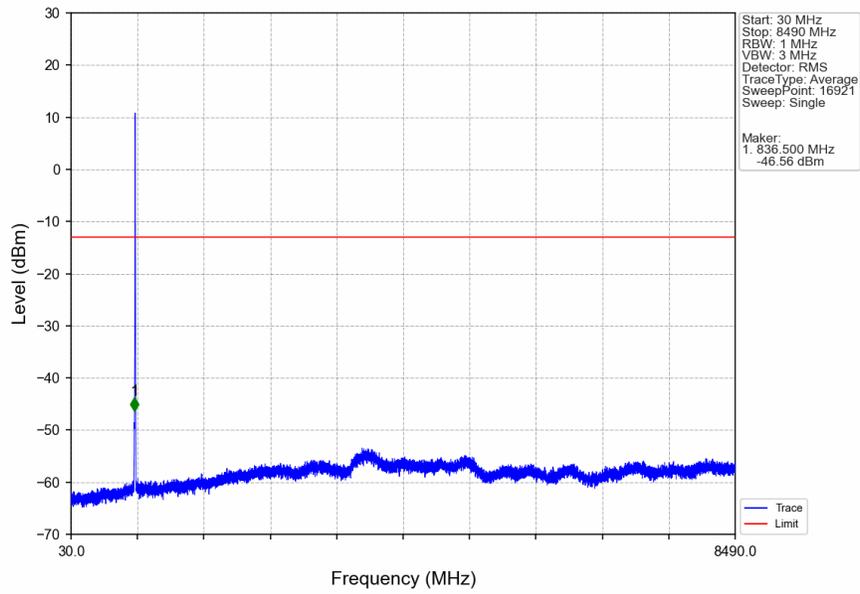
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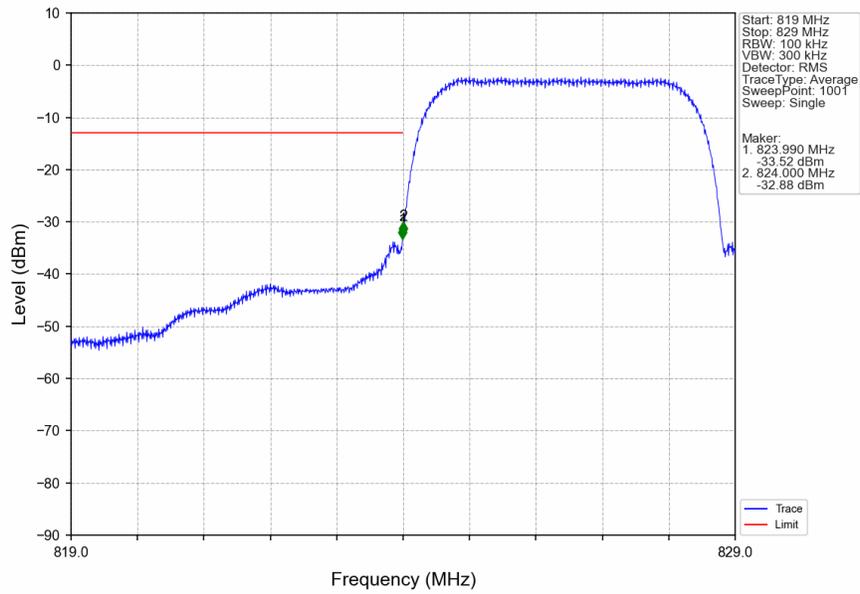
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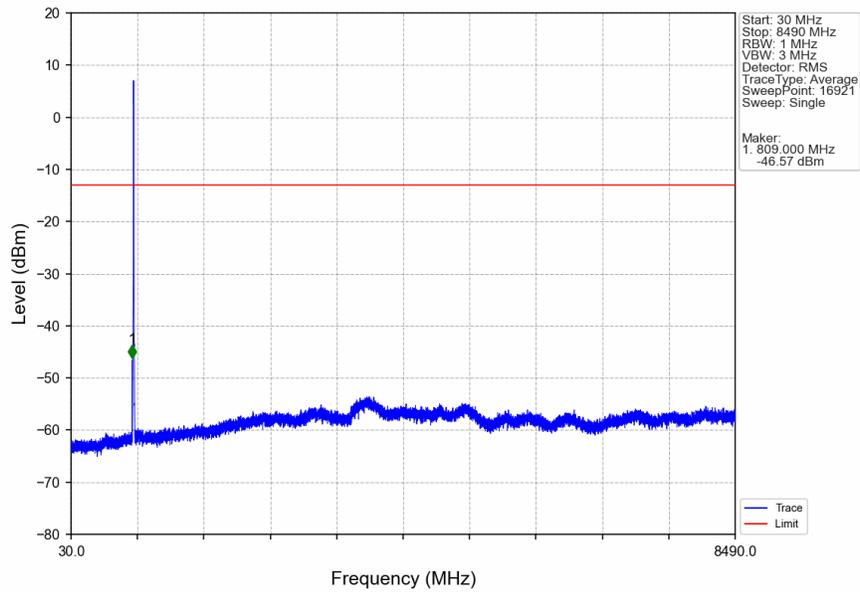
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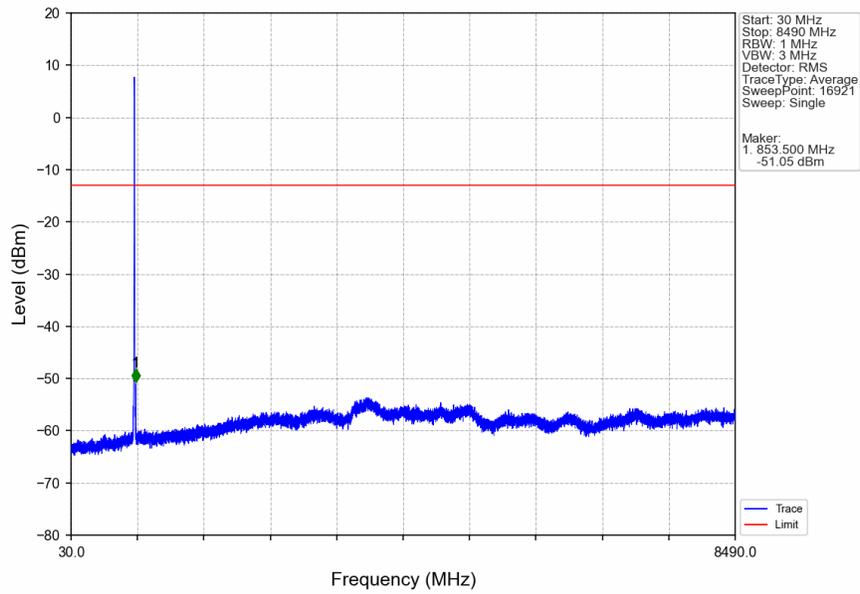
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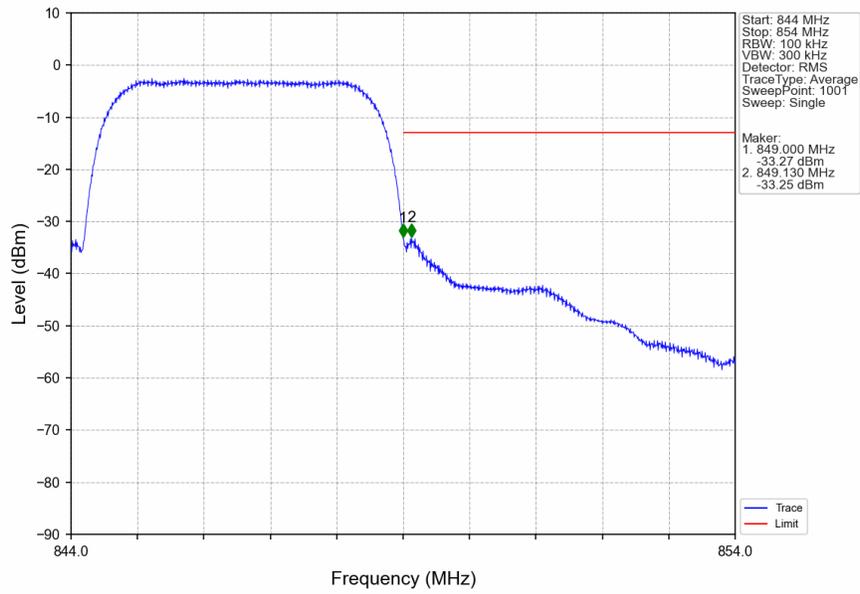
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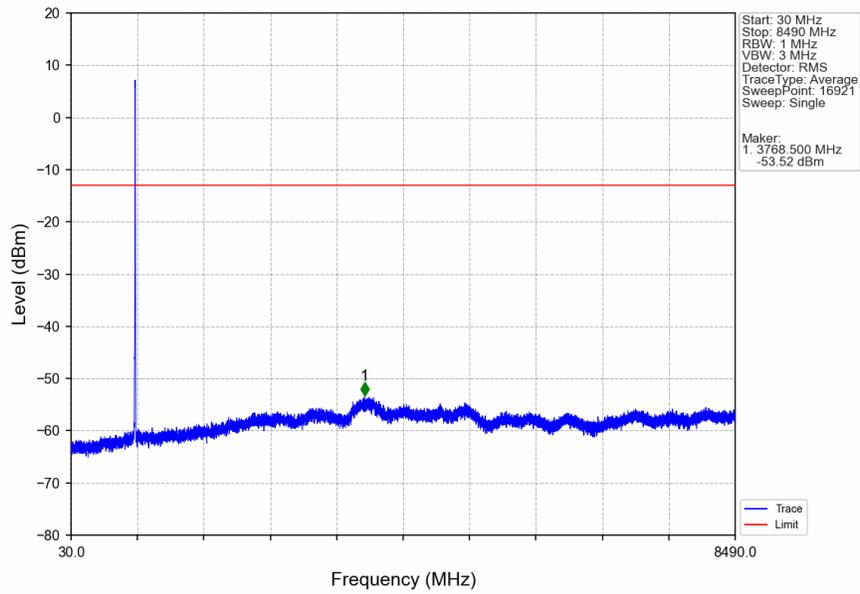
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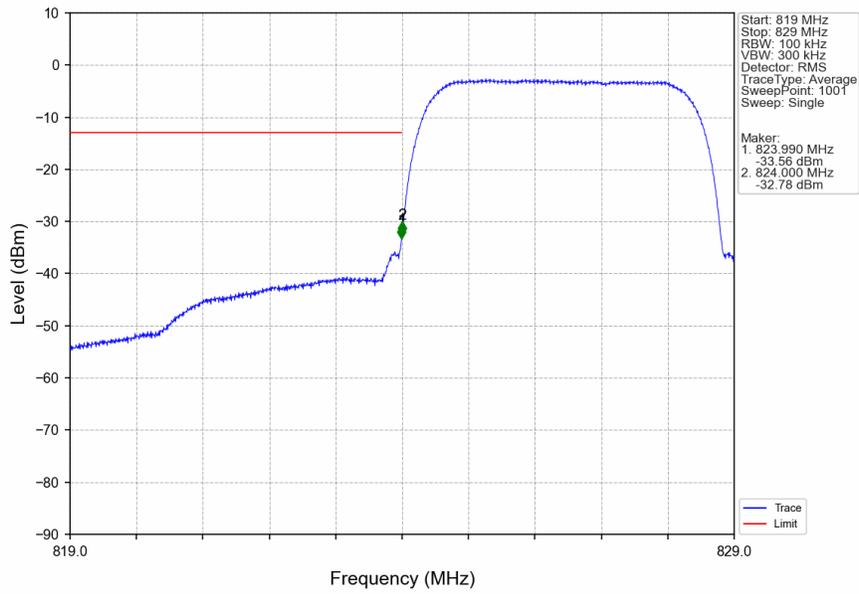
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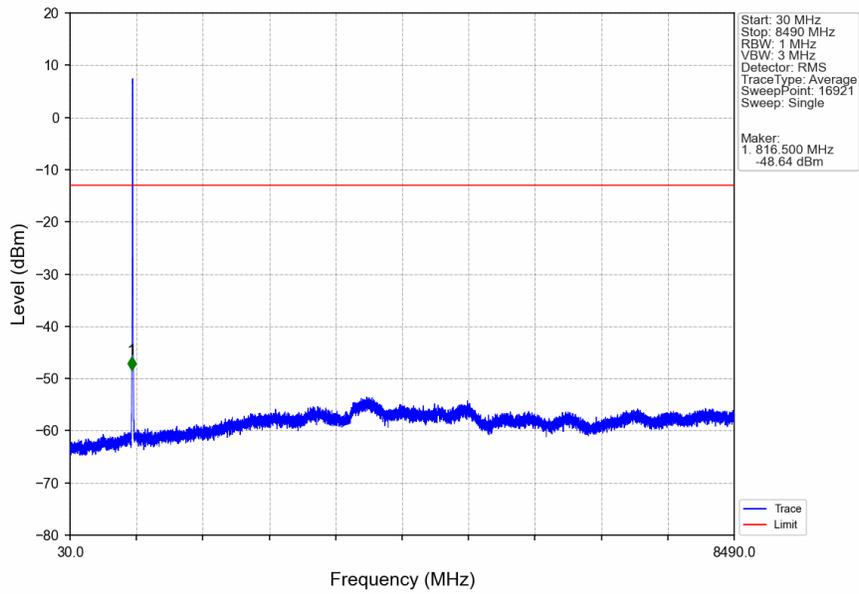
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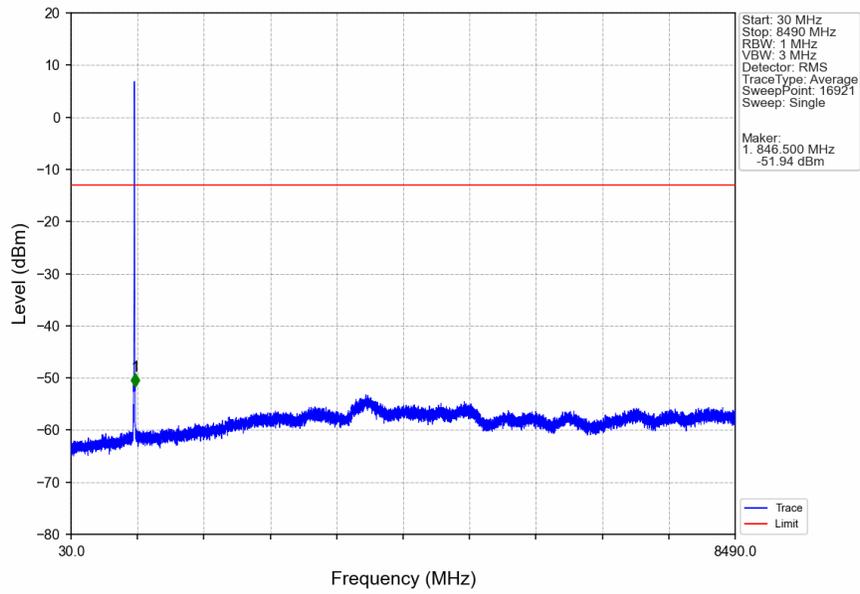
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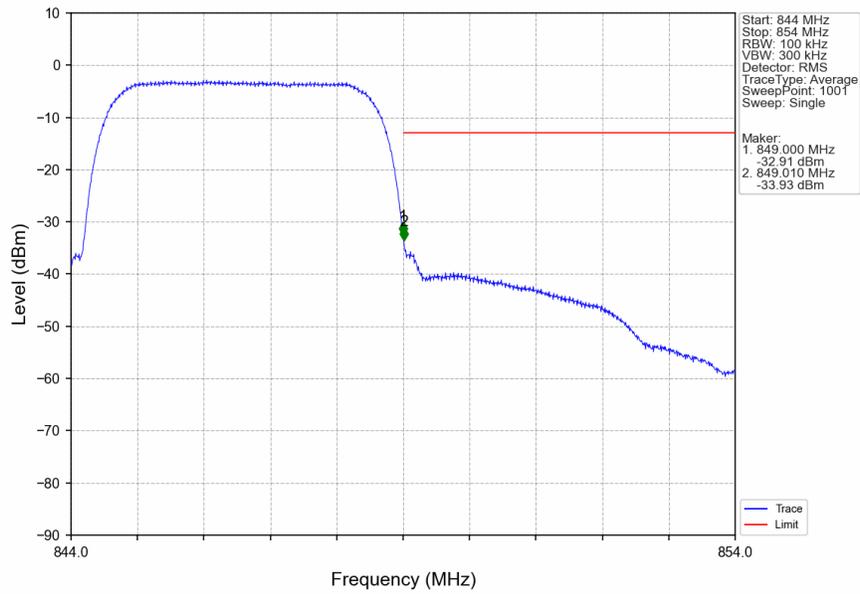
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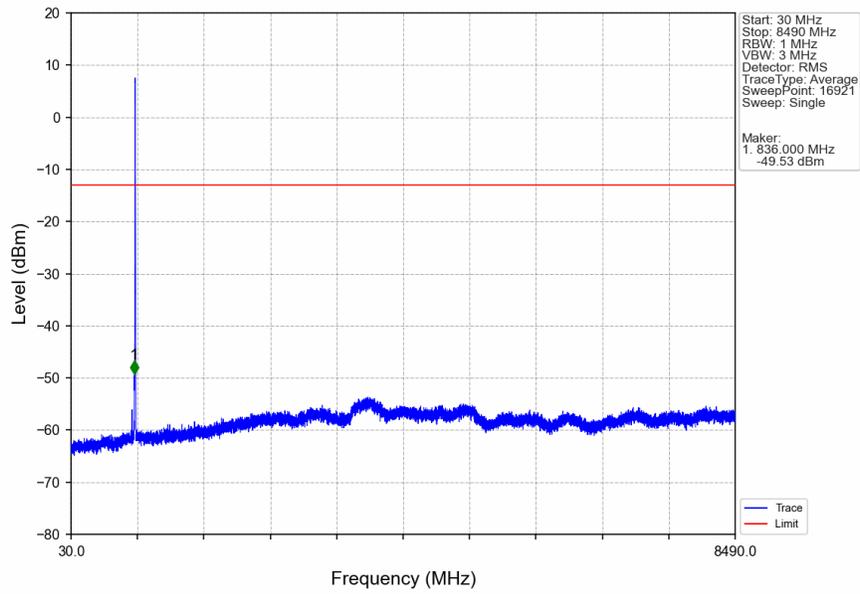
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BandV_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



BandV_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



6. Field Strength of Spurious Radiation

WCDMA Band V ANT0-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1652.8	-71.22	-13	-58.22	-74.09	2.62	5.49	Horizontal	Pass
2479.2	-68.66	-13	-55.66	-71.36	3.07	5.77	Horizontal	Pass
3305.6	-67.57	-13	-54.57	-71.95	3.3	7.68	Horizontal	Pass
1652.8	-71.53	-13	-58.53	-74.4	2.62	5.49	Vertical	Pass
2479.2	-69.27	-13	-56.27	-71.97	3.07	5.77	Vertical	Pass
3305.6	-67.81	-13	-54.81	-72.19	3.3	7.68	Vertical	Pass

WCDMA Band V ANT0-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-71.69	-13	-58.69	-74.5	2.63	5.44	Horizontal	Pass
2509.2	-69.16	-13	-56.16	-71.92	3.08	5.84	Horizontal	Pass
3345.6	-67.66	-13	-54.66	-72.12	3.32	7.78	Horizontal	Pass
1672.8	-71.66	-13	-58.66	-74.47	2.63	5.44	Vertical	Pass
2509.2	-68.85	-13	-55.85	-71.61	3.08	5.84	Vertical	Pass
3345.6	-67.18	-13	-54.18	-71.64	3.32	7.78	Vertical	Pass

WCDMA Band V ANT0-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-72.31	-13	-59.31	-75.07	2.63	5.39	Horizontal	Pass
2539.8	-69.49	-13	-56.49	-72.31	3.09	5.91	Horizontal	Pass
3386.4	-67.22	-13	-54.22	-71.77	3.34	7.89	Horizontal	Pass
1693.2	-71.89	-13	-58.89	-74.65	2.63	5.39	Vertical	Pass
2539.8	-69.24	-13	-56.24	-72.06	3.09	5.91	Vertical	Pass
3386.4	-67.29	-13	-54.29	-71.84	3.34	7.89	Vertical	Pass