

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	23.72	-4.50	17.07	<=34.77	Pass
			13	23.74	-4.50	17.09	<=34.77	Pass
			24	23.67	-4.50	17.02	<=34.77	Pass
		12	0	22.59	-4.50	15.94	<=34.77	Pass
			6	22.72	-4.50	16.07	<=34.77	Pass
			13	22.68	-4.50	16.03	<=34.77	Pass
		25	0	22.68	-4.50	16.03	<=34.77	Pass
	782	1	0	23.67	-4.50	17.02	<=34.77	Pass
			13	23.77	-4.50	17.12	<=34.77	Pass
			24	23.63	-4.50	16.98	<=34.77	Pass
		12	0	22.63	-4.50	15.98	<=34.77	Pass
			6	22.67	-4.50	16.02	<=34.77	Pass
			13	22.65	-4.50	16.00	<=34.77	Pass
		25	0	22.62	-4.50	15.97	<=34.77	Pass
	784.5	1	0	23.72	-4.50	17.07	<=34.77	Pass
			13	23.75	-4.50	17.10	<=34.77	Pass
			24	23.64	-4.50	16.99	<=34.77	Pass
		12	0	22.70	-4.50	16.05	<=34.77	Pass
			6	22.71	-4.50	16.06	<=34.77	Pass
			13	22.68	-4.50	16.03	<=34.77	Pass
		25	0	22.69	-4.50	16.04	<=34.77	Pass
16QAM	779.5	1	0	22.73	-4.50	16.08	<=34.77	Pass
			13	22.81	-4.50	16.16	<=34.77	Pass
			24	22.74	-4.50	16.09	<=34.77	Pass
		12	0	21.56	-4.50	14.91	<=34.77	Pass
			6	21.66	-4.50	15.01	<=34.77	Pass
			13	21.70	-4.50	15.05	<=34.77	Pass
		25	0	21.67	-4.50	15.02	<=34.77	Pass
	782	1	0	22.82	-4.50	16.17	<=34.77	Pass
			13	22.93	-4.50	16.28	<=34.77	Pass
			24	22.83	-4.50	16.18	<=34.77	Pass
		12	0	21.65	-4.50	15.00	<=34.77	Pass
			6	21.64	-4.50	14.99	<=34.77	Pass
			13	21.64	-4.50	14.99	<=34.77	Pass
		25	0	21.65	-4.50	15.00	<=34.77	Pass
	784.5	1	0	22.91	-4.50	16.26	<=34.77	Pass
			13	22.85	-4.50	16.20	<=34.77	Pass
			24	22.82	-4.50	16.17	<=34.77	Pass
		12	0	21.71	-4.50	15.06	<=34.77	Pass
			6	21.74	-4.50	15.09	<=34.77	Pass
			13	21.66	-4.50	15.01	<=34.77	Pass
		25	0	21.69	-4.50	15.04	<=34.77	Pass
64QAM	779.5	1	0	21.80	-4.50	15.15	<=34.77	Pass
			13	21.87	-4.50	15.22	<=34.77	Pass
			24	21.82	-4.50	15.17	<=34.77	Pass
		12	0	20.58	-4.50	13.93	<=34.77	Pass
			6	20.69	-4.50	14.04	<=34.77	Pass
			13	20.71	-4.50	14.06	<=34.77	Pass
		25	0	20.71	-4.50	14.06	<=34.77	Pass

	782	1	0	21.85	-4.50	15.20	<=34.77	Pass
			13	21.93	-4.50	15.28	<=34.77	Pass
			24	21.88	-4.50	15.23	<=34.77	Pass
		12	0	20.66	-4.50	14.01	<=34.77	Pass
			6	20.70	-4.50	14.05	<=34.77	Pass
			13	20.64	-4.50	13.99	<=34.77	Pass
		25	0	20.64	-4.50	13.99	<=34.77	Pass
	784.5	1	0	21.85	-4.50	15.20	<=34.77	Pass
			13	21.75	-4.50	15.10	<=34.77	Pass
			24	21.73	-4.50	15.08	<=34.77	Pass
		12	0	20.70	-4.50	14.05	<=34.77	Pass
			6	20.73	-4.50	14.08	<=34.77	Pass
			13	20.62	-4.50	13.97	<=34.77	Pass
		25	0	20.70	-4.50	14.05	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	23.60	-4.50	16.95	<=34.77	Pass
			25	23.71	-4.50	17.06	<=34.77	Pass
			49	23.57	-4.50	16.92	<=34.77	Pass
		25	0	22.64	-4.50	15.99	<=34.77	Pass
			13	22.63	-4.50	15.98	<=34.77	Pass
			25	22.59	-4.50	15.94	<=34.77	Pass
		50	0	22.61	-4.50	15.96	<=34.77	Pass
16QAM	782	1	0	22.80	-4.50	16.15	<=34.77	Pass
			25	22.83	-4.50	16.18	<=34.77	Pass
			49	22.69	-4.50	16.04	<=34.77	Pass
		25	0	21.65	-4.50	15.00	<=34.77	Pass
			13	21.64	-4.50	14.99	<=34.77	Pass
			25	21.62	-4.50	14.97	<=34.77	Pass
		50	0	21.61	-4.50	14.96	<=34.77	Pass
64QAM	782	1	0	21.69	-4.50	15.04	<=34.77	Pass
			25	21.84	-4.50	15.19	<=34.77	Pass
			49	21.71	-4.50	15.06	<=34.77	Pass
		25	0	20.64	-4.50	13.99	<=34.77	Pass
			13	20.66	-4.50	14.01	<=34.77	Pass
			25	20.58	-4.50	13.93	<=34.77	Pass
		50	0	20.63	-4.50	13.98	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	25	0	20	3.6	2.901	0.0037	-2.5 to 2.5	Pass
					3.92	2.283	0.0029	-2.5 to 2.5	Pass
					4.53	3.349	0.0043	-2.5 to 2.5	Pass
				-30	3.92	3.111	0.0040	-2.5 to 2.5	Pass
				-20	3.92	2.836	0.0036	-2.5 to 2.5	Pass
				-10	3.92	1.655	0.0021	-2.5 to 2.5	Pass
				0	3.92	1.197	0.0015	-2.5 to 2.5	Pass
				10	3.92	1.381	0.0018	-2.5 to 2.5	Pass
				30	3.92	2.004	0.0026	-2.5 to 2.5	Pass
				40	3.92	2.582	0.0033	-2.5 to 2.5	Pass
				50	3.92	1.346	0.0017	-2.5 to 2.5	Pass
	782	25	0	20	3.6	1.566	0.0020	-2.5 to 2.5	Pass
					3.92	3.001	0.0038	-2.5 to 2.5	Pass
					4.53	2.433	0.0031	-2.5 to 2.5	Pass
				-30	3.92	1.359	0.0017	-2.5 to 2.5	Pass
				-20	3.92	1.469	0.0019	-2.5 to 2.5	Pass
				-10	3.92	1.420	0.0018	-2.5 to 2.5	Pass
				0	3.92	1.668	0.0021	-2.5 to 2.5	Pass
				10	3.92	1.472	0.0019	-2.5 to 2.5	Pass
				30	3.92	1.310	0.0017	-2.5 to 2.5	Pass
				40	3.92	0.290	0.0004	-2.5 to 2.5	Pass
				50	3.92	0.378	0.0005	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	2.476	0.0032	-2.5 to 2.5	Pass
					3.92	2.916	0.0037	-2.5 to 2.5	Pass
					4.53	2.471	0.0031	-2.5 to 2.5	Pass
				-30	3.92	1.888	0.0024	-2.5 to 2.5	Pass
				-20	3.92	2.078	0.0026	-2.5 to 2.5	Pass
				-10	3.92	1.114	0.0014	-2.5 to 2.5	Pass
				0	3.92	0.824	0.0011	-2.5 to 2.5	Pass
				10	3.92	0.555	0.0007	-2.5 to 2.5	Pass
				30	3.92	0.943	0.0012	-2.5 to 2.5	Pass
				40	3.92	0.489	0.0006	-2.5 to 2.5	Pass
				50	3.92	1.208	0.0015	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.6	2.403	0.0031	-2.5 to 2.5	Pass
					3.92	1.132	0.0015	-2.5 to 2.5	Pass
					4.53	2.221	0.0028	-2.5 to 2.5	Pass
				-30	3.92	0.563	0.0007	-2.5 to 2.5	Pass
				-20	3.92	1.501	0.0019	-2.5 to 2.5	Pass
				-10	3.92	0.938	0.0012	-2.5 to 2.5	Pass
				0	3.92	0.319	0.0004	-2.5 to 2.5	Pass
				10	3.92	0.492	0.0006	-2.5 to 2.5	Pass
				30	3.92	0.570	0.0007	-2.5 to 2.5	Pass
				40	3.92	1.229	0.0016	-2.5 to 2.5	Pass
				50	3.92	-0.363	-0.0005	-2.5 to 2.5	Pass
	782	25	0	20	3.6	1.202	0.0015	-2.5 to 2.5	Pass
					3.92	1.009	0.0013	-2.5 to 2.5	Pass
					4.53	-0.130	-0.0002	-2.5 to 2.5	Pass

				-30	3.92	-0.108	-0.0001	-2.5 to 2.5	Pass
				-20	3.92	0.284	0.0004	-2.5 to 2.5	Pass
				-10	3.92	-0.628	-0.0008	-2.5 to 2.5	Pass
				0	3.92	0.302	0.0004	-2.5 to 2.5	Pass
				10	3.92	1.009	0.0013	-2.5 to 2.5	Pass
				30	3.92	-0.358	-0.0005	-2.5 to 2.5	Pass
				40	3.92	0.724	0.0009	-2.5 to 2.5	Pass
				50	3.92	0.563	0.0007	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	1.201	0.0015	-2.5 to 2.5	Pass
					3.92	0.811	0.0010	-2.5 to 2.5	Pass
					4.53	-0.327	-0.0004	-2.5 to 2.5	Pass
				-30	3.92	0.061	0.0001	-2.5 to 2.5	Pass
				-20	3.92	0.122	0.0002	-2.5 to 2.5	Pass
				-10	3.92	0.361	0.0005	-2.5 to 2.5	Pass
				0	3.92	0.171	0.0002	-2.5 to 2.5	Pass
				10	3.92	-0.202	-0.0003	-2.5 to 2.5	Pass
				30	3.92	0.801	0.0010	-2.5 to 2.5	Pass
				40	3.92	-0.234	-0.0003	-2.5 to 2.5	Pass
				50	3.92	1.054	0.0013	-2.5 to 2.5	Pass
64QAM	779.5	25	0	20	3.6	-0.238	-0.0003	-2.5 to 2.5	Pass
					3.92	0.029	0.0000	-2.5 to 2.5	Pass
					4.53	1.089	0.0014	-2.5 to 2.5	Pass
				-30	3.92	-0.122	-0.0002	-2.5 to 2.5	Pass
				-20	3.92	0.887	0.0011	-2.5 to 2.5	Pass
				-10	3.92	-0.064	-0.0001	-2.5 to 2.5	Pass
				0	3.92	-0.220	-0.0003	-2.5 to 2.5	Pass
				10	3.92	0.656	0.0008	-2.5 to 2.5	Pass
				30	3.92	1.167	0.0015	-2.5 to 2.5	Pass
				40	3.92	0.806	0.0010	-2.5 to 2.5	Pass
				50	3.92	0.255	0.0003	-2.5 to 2.5	Pass
	782	25	0	20	3.6	-0.342	-0.0004	-2.5 to 2.5	Pass
					3.92	0.084	0.0001	-2.5 to 2.5	Pass
					4.53	-0.424	-0.0005	-2.5 to 2.5	Pass
				-30	3.92	0.592	0.0008	-2.5 to 2.5	Pass
				-20	3.92	0.110	0.0001	-2.5 to 2.5	Pass
				-10	3.92	-0.159	-0.0002	-2.5 to 2.5	Pass
				0	3.92	0.092	0.0001	-2.5 to 2.5	Pass
				10	3.92	0.600	0.0008	-2.5 to 2.5	Pass
				30	3.92	0.619	0.0008	-2.5 to 2.5	Pass
				40	3.92	1.086	0.0014	-2.5 to 2.5	Pass
				50	3.92	0.488	0.0006	-2.5 to 2.5	Pass
	784.5	25	0	20	3.6	0.873	0.0011	-2.5 to 2.5	Pass
					3.92	0.884	0.0011	-2.5 to 2.5	Pass
					4.53	0.438	0.0006	-2.5 to 2.5	Pass
				-30	3.92	0.127	0.0002	-2.5 to 2.5	Pass
				-20	3.92	-0.227	-0.0003	-2.5 to 2.5	Pass
				-10	3.92	0.698	0.0009	-2.5 to 2.5	Pass
				0	3.92	-0.262	-0.0003	-2.5 to 2.5	Pass
				10	3.92	-0.305	-0.0004	-2.5 to 2.5	Pass
				30	3.92	-0.240	-0.0003	-2.5 to 2.5	Pass
				40	3.92	1.452	0.0019	-2.5 to 2.5	Pass
				50	3.92	1.041	0.0013	-2.5 to 2.5	Pass

2.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	782	50	0	20	3.6	2.644	0.0034	-2.5 to 2.5	Pass
					3.92	2.241	0.0029	-2.5 to 2.5	Pass
					4.53	1.181	0.0015	-2.5 to 2.5	Pass
				-30	3.92	0.209	0.0003	-2.5 to 2.5	Pass
				-20	3.92	-0.048	-0.0001	-2.5 to 2.5	Pass
				-10	3.92	0.345	0.0004	-2.5 to 2.5	Pass
				0	3.92	0.244	0.0003	-2.5 to 2.5	Pass
				10	3.92	3.122	0.0040	-2.5 to 2.5	Pass
				30	3.92	2.276	0.0029	-2.5 to 2.5	Pass
				40	3.92	0.611	0.0008	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.6	1.413	0.0018	-2.5 to 2.5	Pass
					3.92	1.595	0.0020	-2.5 to 2.5	Pass
					4.53	0.478	0.0006	-2.5 to 2.5	Pass
				-30	3.92	1.419	0.0018	-2.5 to 2.5	Pass
				-20	3.92	-0.118	-0.0002	-2.5 to 2.5	Pass
				-10	3.92	0.298	0.0004	-2.5 to 2.5	Pass
				0	3.92	0.797	0.0010	-2.5 to 2.5	Pass
				10	3.92	1.074	0.0014	-2.5 to 2.5	Pass
				30	3.92	0.469	0.0006	-2.5 to 2.5	Pass
				40	3.92	0.607	0.0008	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.6	0.600	0.0008	-2.5 to 2.5	Pass
					3.92	0.468	0.0006	-2.5 to 2.5	Pass
					4.53	0.908	0.0012	-2.5 to 2.5	Pass
				-30	3.92	1.263	0.0016	-2.5 to 2.5	Pass
				-20	3.92	0.818	0.0010	-2.5 to 2.5	Pass
				-10	3.92	-0.128	-0.0002	-2.5 to 2.5	Pass
				0	3.92	0.957	0.0012	-2.5 to 2.5	Pass
				10	3.92	0.364	0.0005	-2.5 to 2.5	Pass
				30	3.92	0.259	0.0003	-2.5 to 2.5	Pass
				40	3.92	0.857	0.0011	-2.5 to 2.5	Pass
				50	3.92	0.367	0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

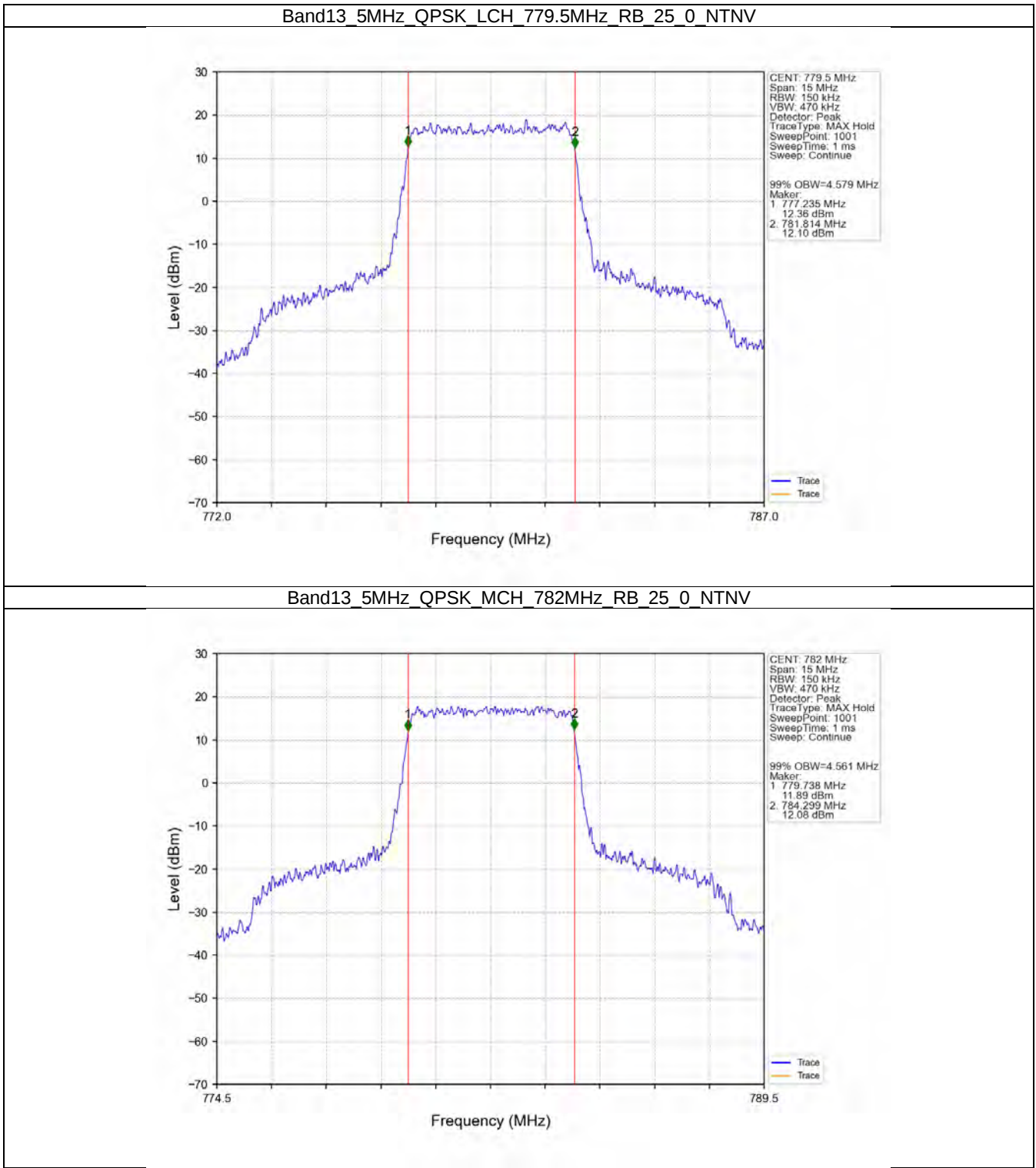
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.579	/	Pass
		782	25	0	4.561	/	Pass
		784.5	25	0	4.556	/	Pass
	16QAM	779.5	25	0	4.582	/	Pass
		782	25	0	4.566	/	Pass
		784.5	25	0	4.573	/	Pass
	64QAM	779.5	25	0	4.566	/	Pass
		782	25	0	4.559	/	Pass
		784.5	25	0	4.570	/	Pass
10	QPSK	782	50	0	9.035	/	Pass
	16QAM	782	50	0	9.045	/	Pass
	64QAM	782	50	0	9.042	/	Pass

3.1.2 Band13_XDB

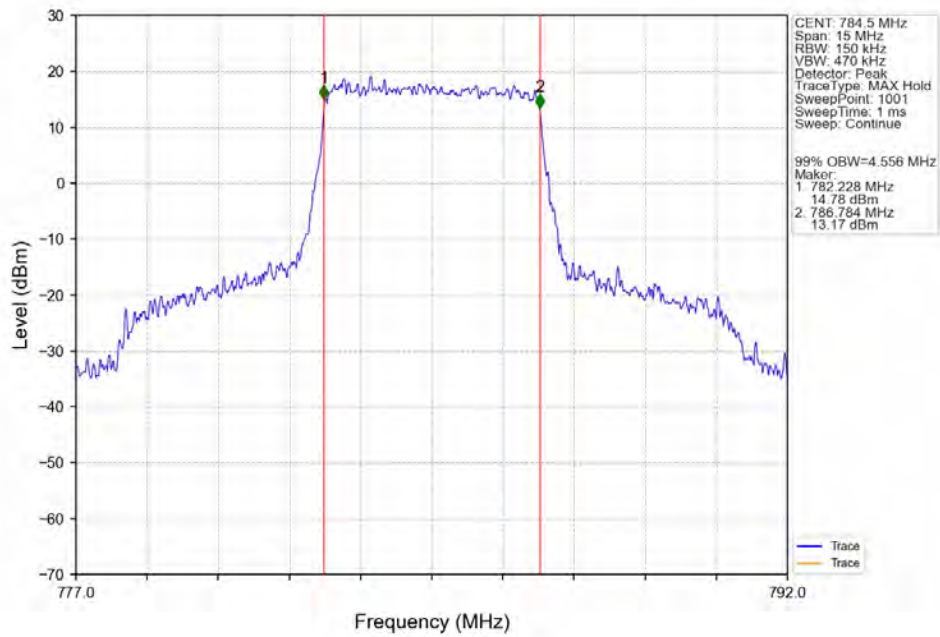
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.255	/	Pass
		782	25	0	5.286	/	Pass
		784.5	25	0	5.183	/	Pass
	16QAM	779.5	25	0	5.237	/	Pass
		782	25	0	5.193	/	Pass
		784.5	25	0	5.232	/	Pass
	64QAM	779.5	25	0	5.257	/	Pass
		782	25	0	5.238	/	Pass
		784.5	25	0	5.195	/	Pass
10	QPSK	782	50	0	10.136	/	Pass
	16QAM	782	50	0	10.185	/	Pass
	64QAM	782	50	0	10.074	/	Pass

3.2 Test Graph

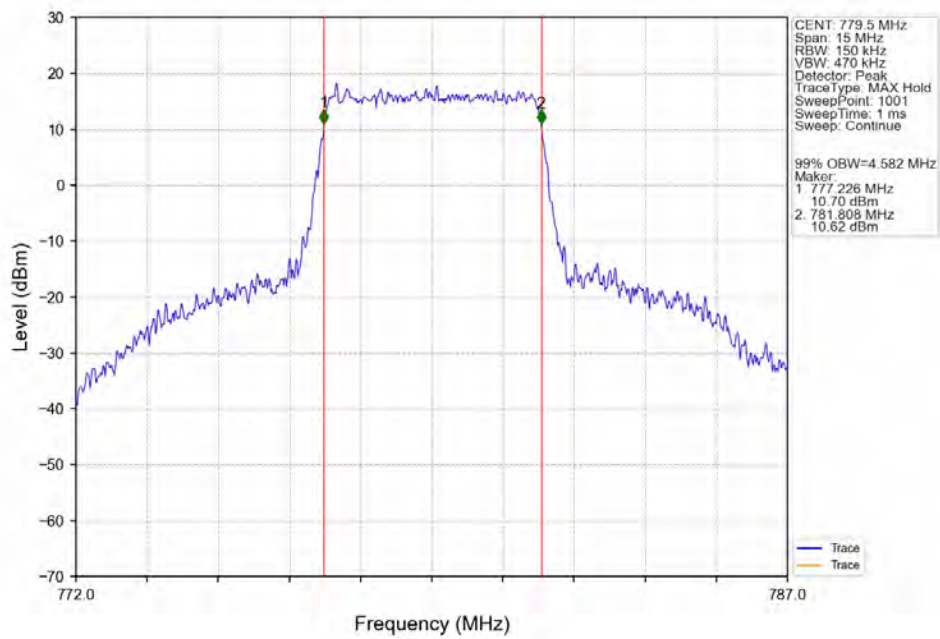
3.2.1 Band13_OBW



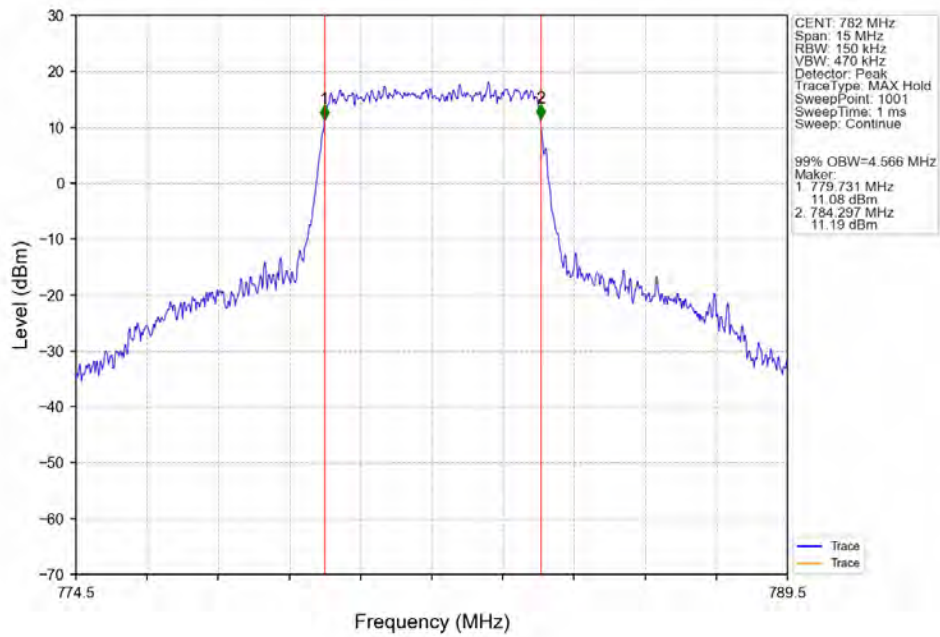
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



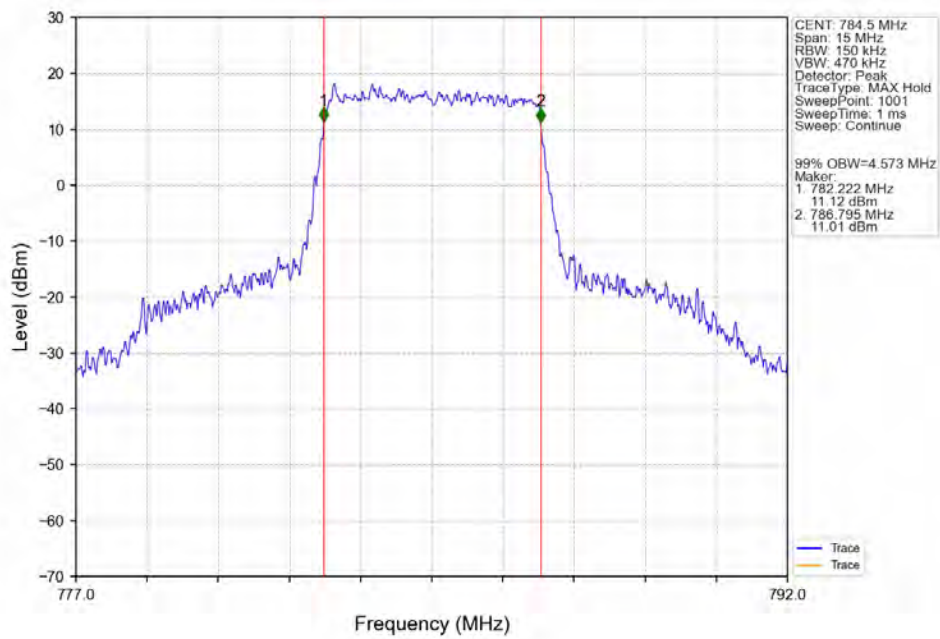
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



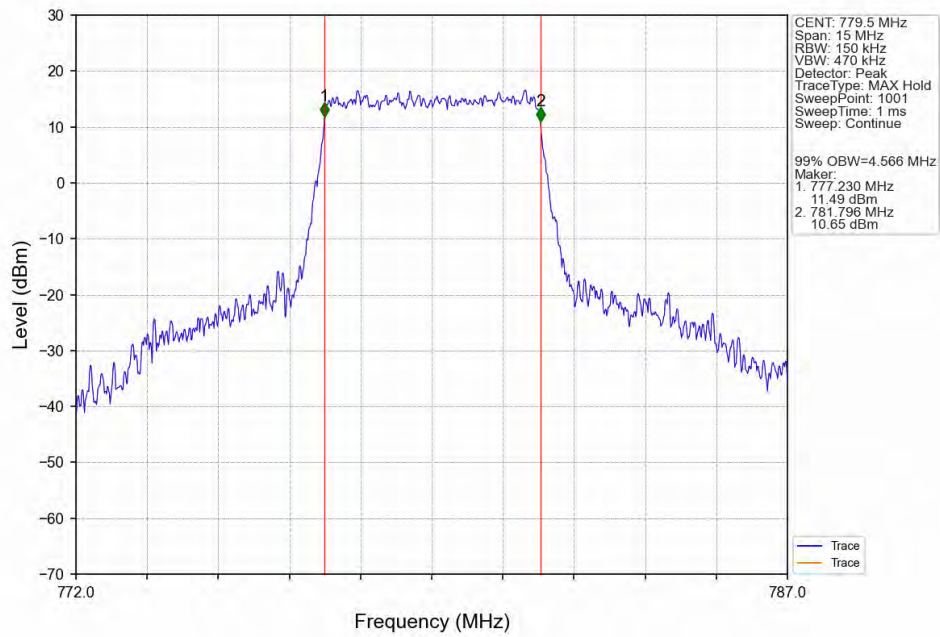
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTV



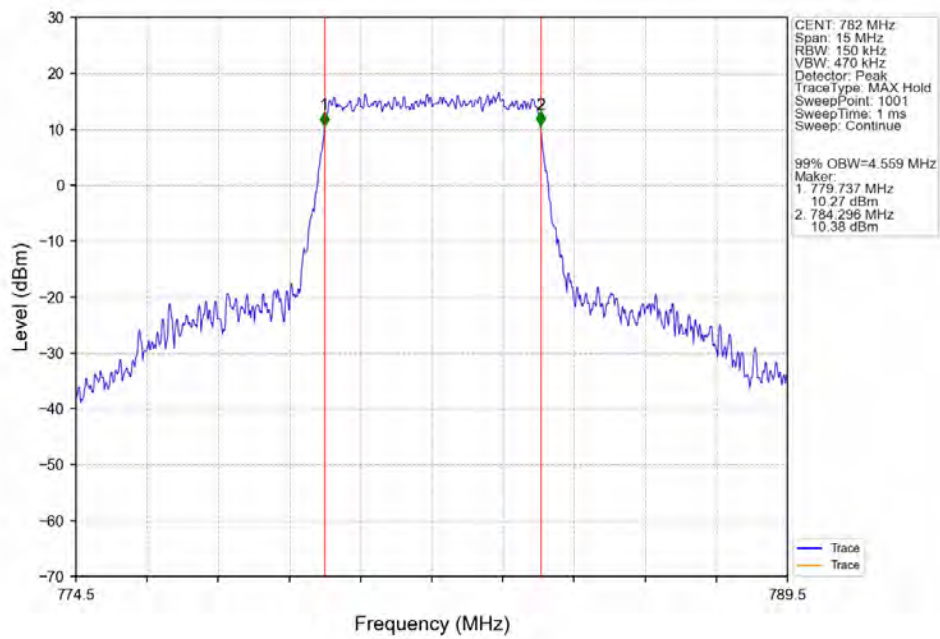
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTV



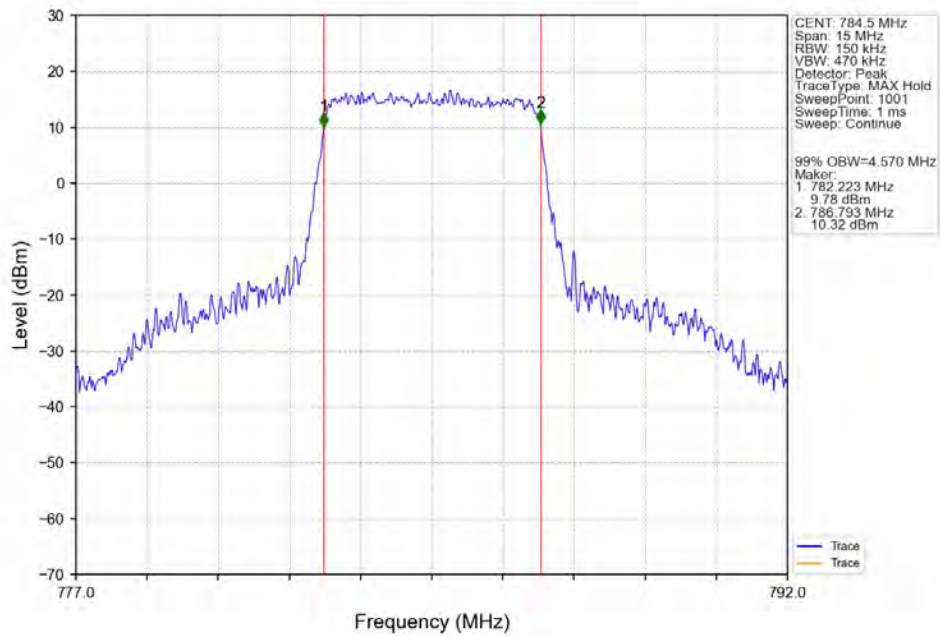
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



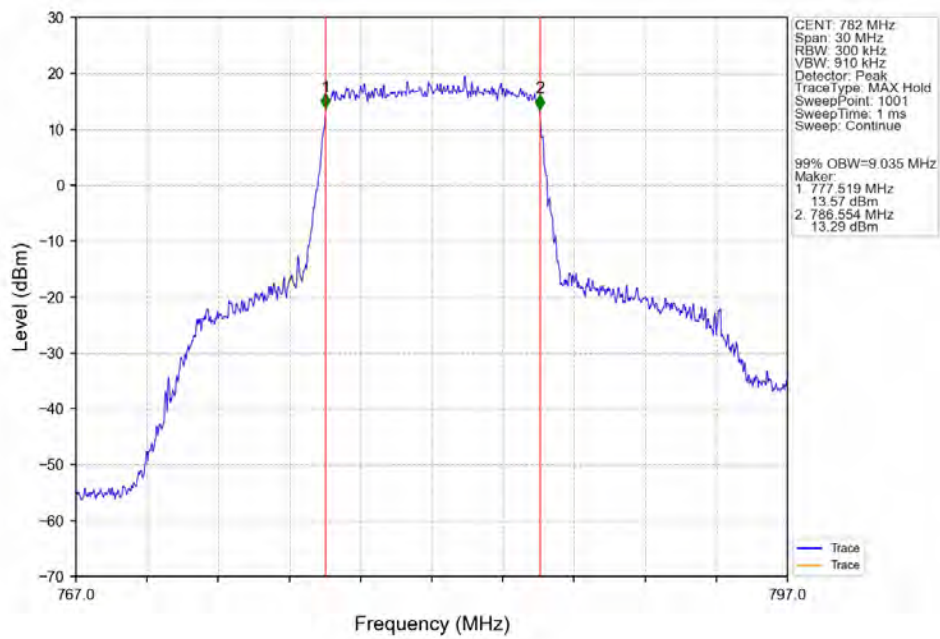
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



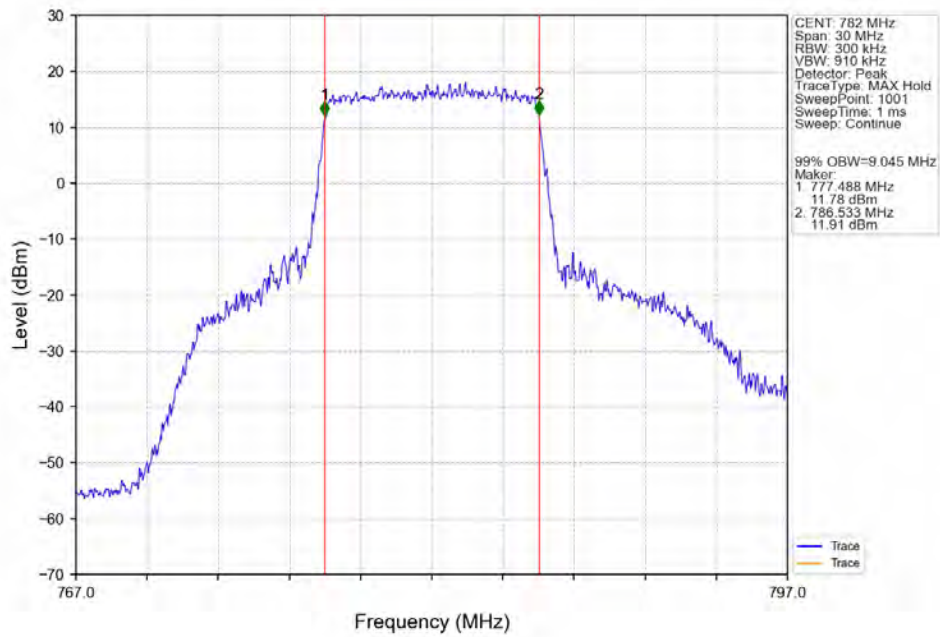
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



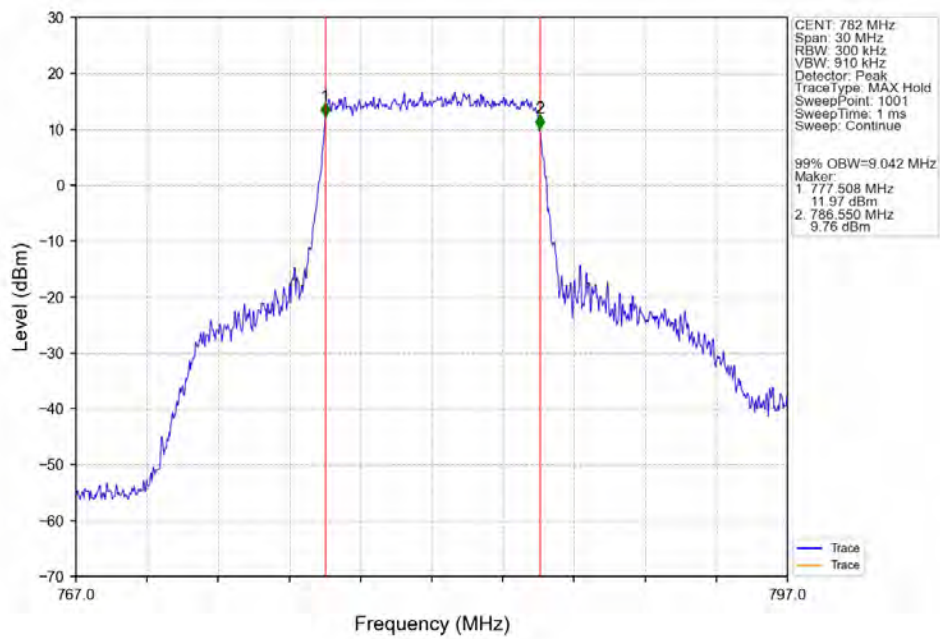
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



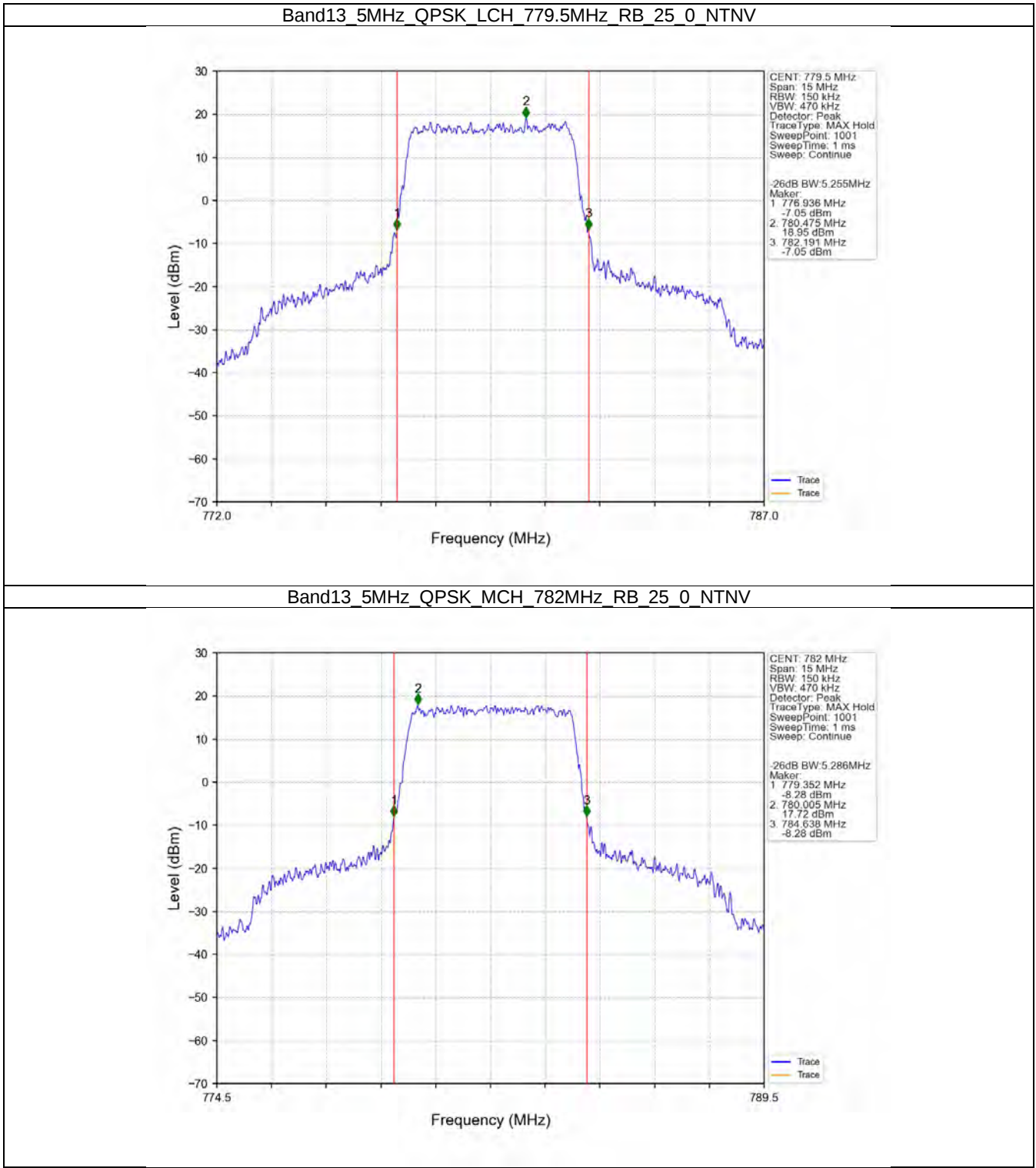
Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



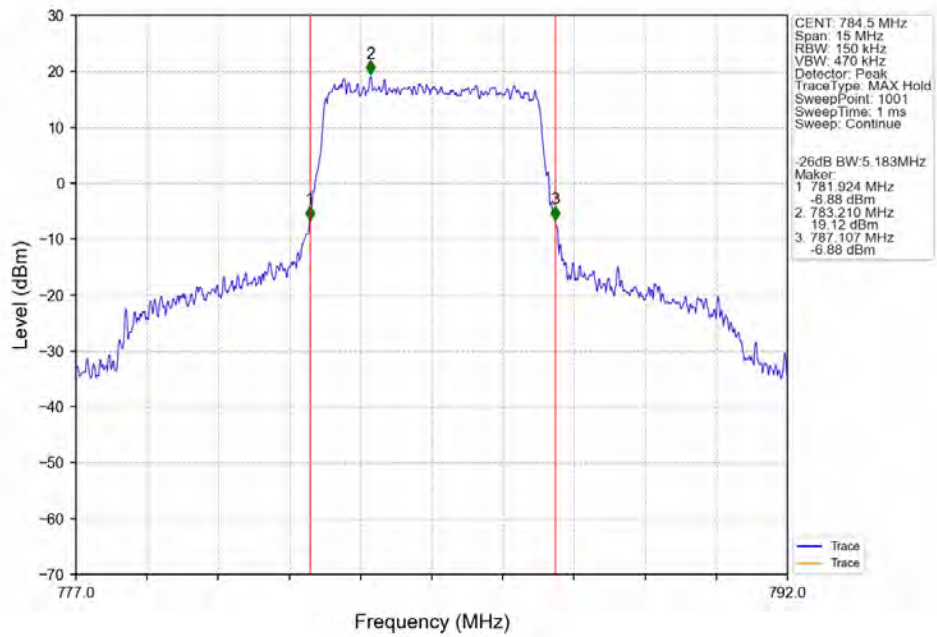
Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



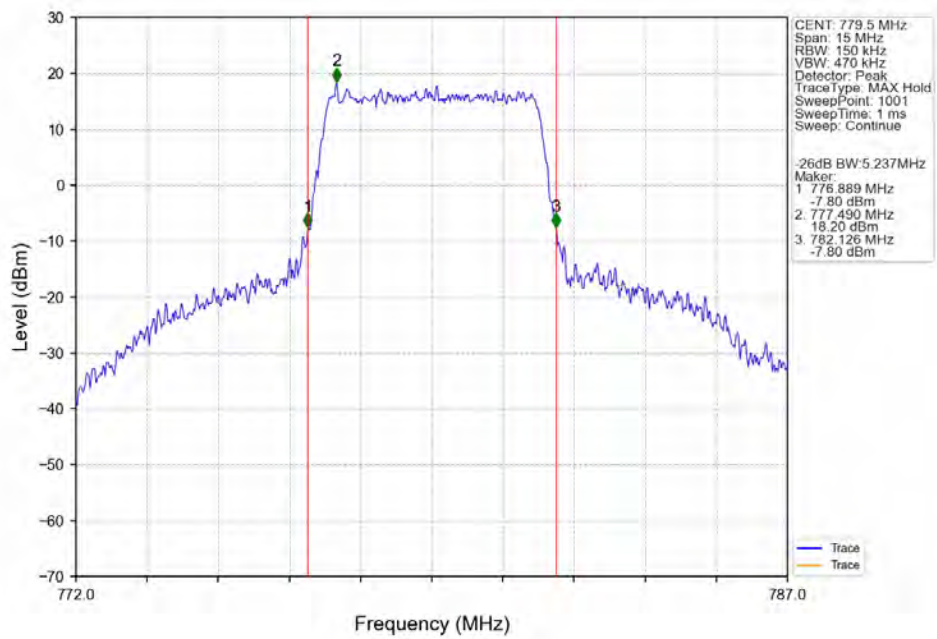
3.2.2 Band13_XDB



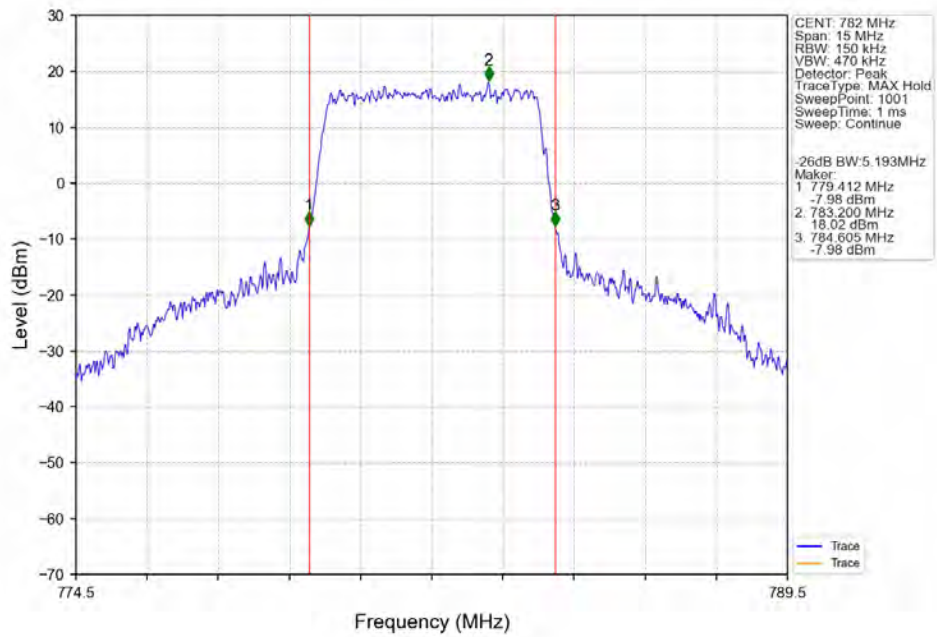
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



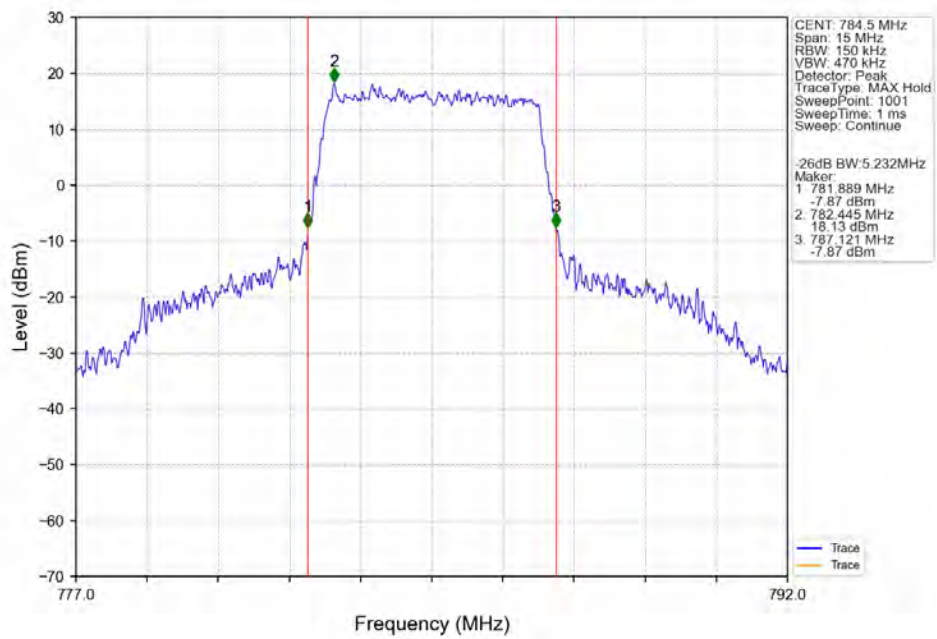
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



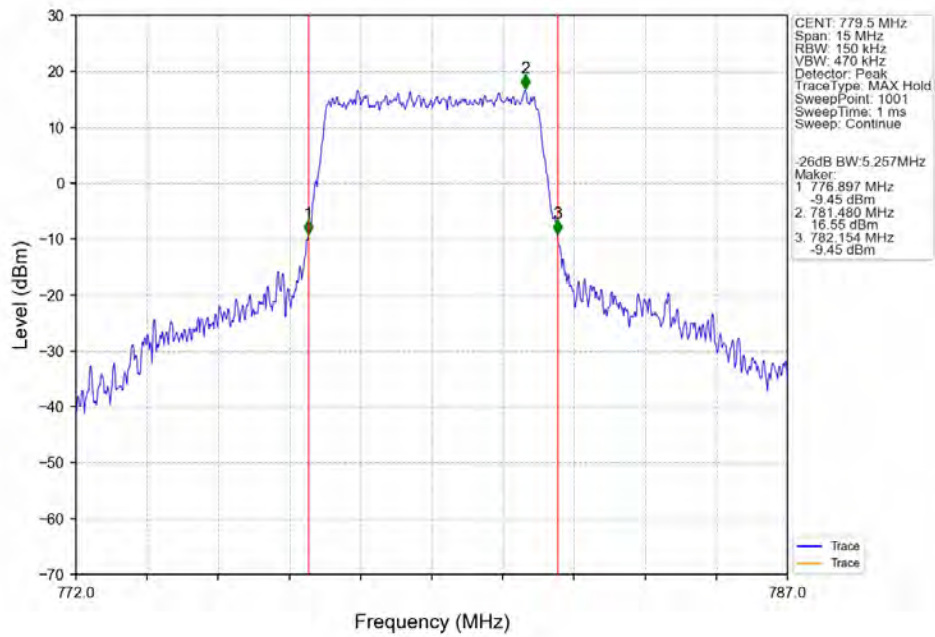
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTV



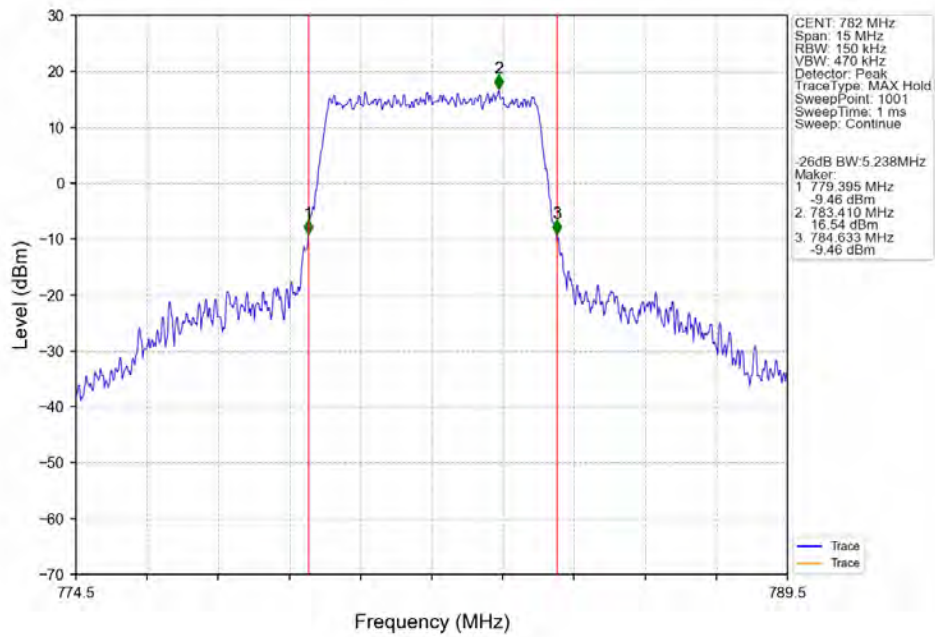
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTV



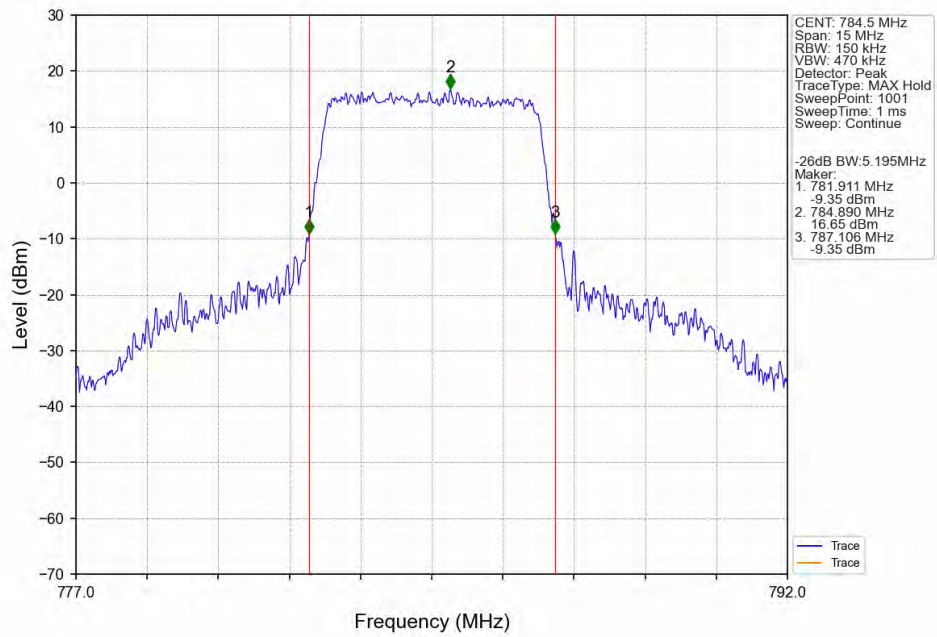
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



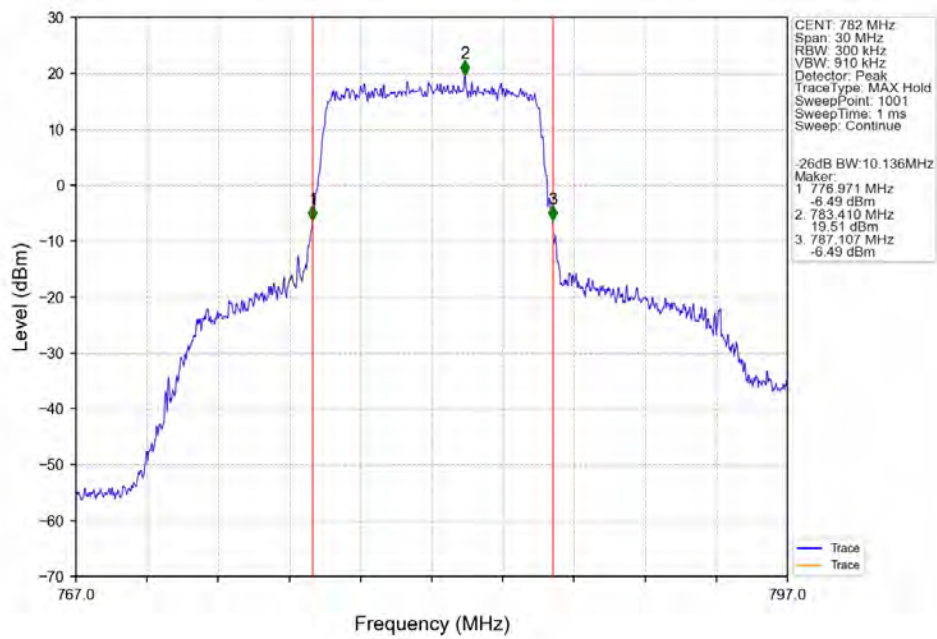
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



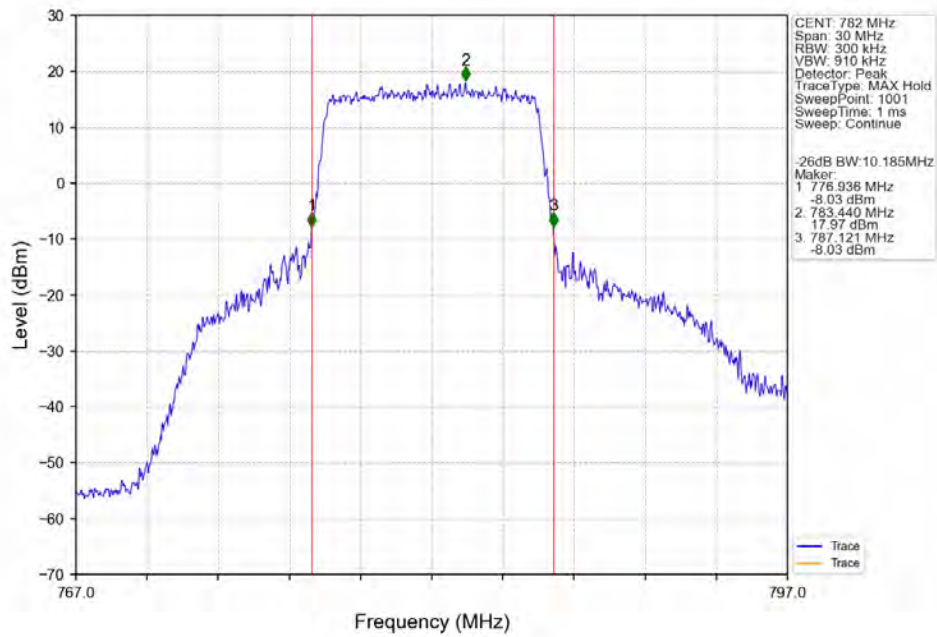
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



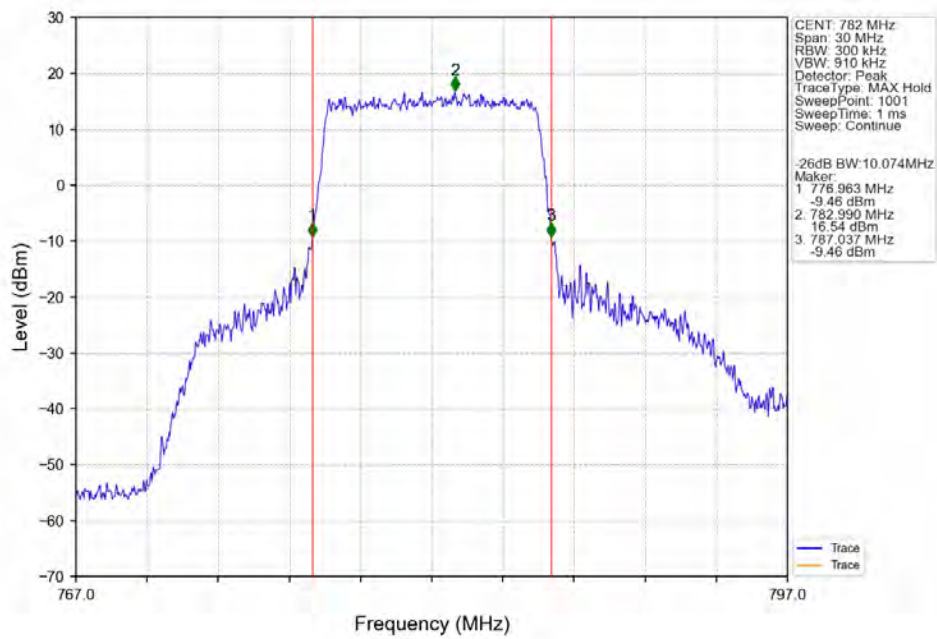
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_64QAM_MCH_782MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B13_5MHz

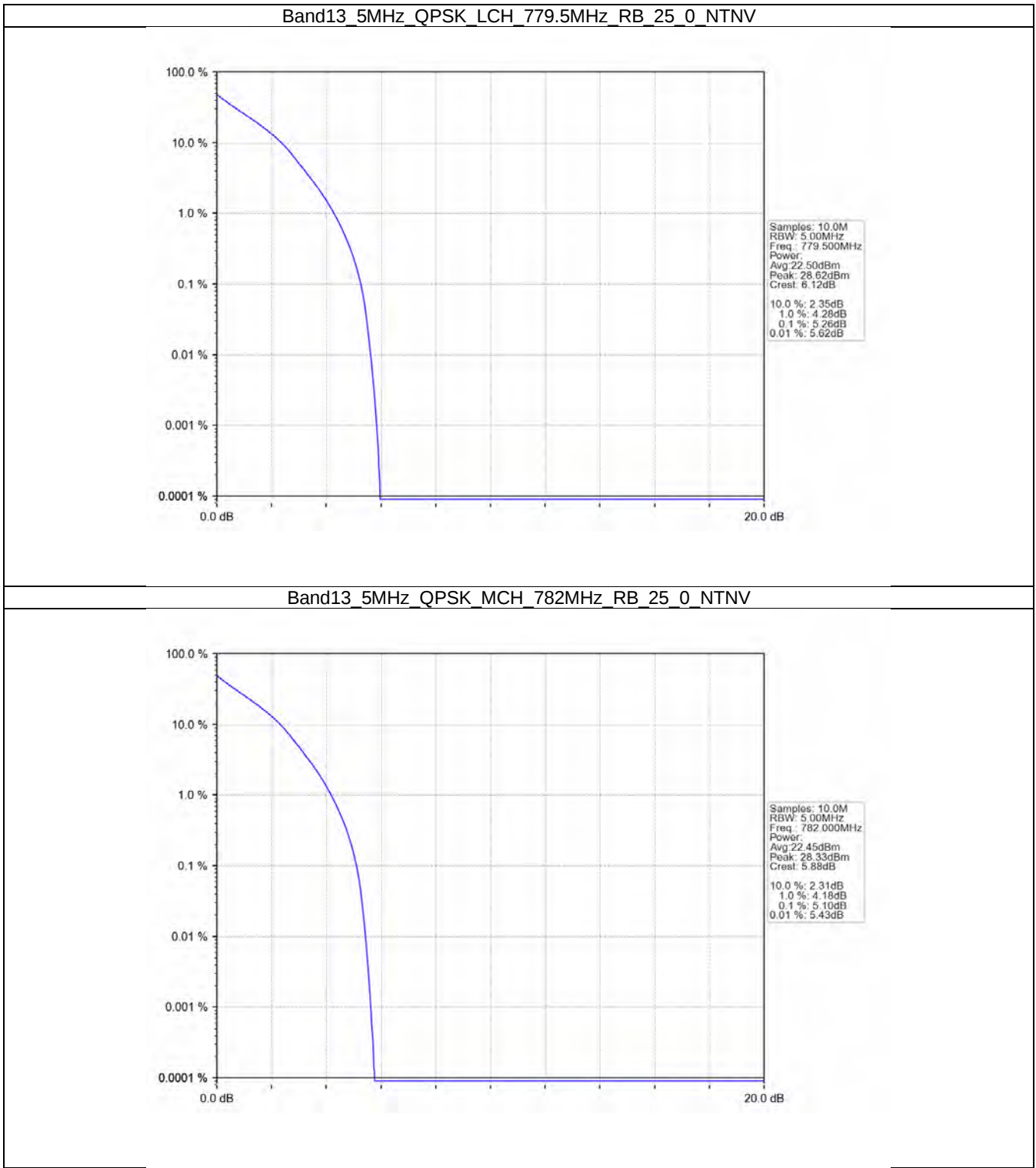
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.26	<=13	Pass
	782	25	0	5.10	<=13	Pass
	784.5	25	0	5.10	<=13	Pass
16QAM	779.5	25	0	6.02	<=13	Pass
	782	25	0	5.86	<=13	Pass
	784.5	25	0	5.85	<=13	Pass
64QAM	779.5	25	0	6.34	<=13	Pass
	782	25	0	6.23	<=13	Pass
	784.5	25	0	6.21	<=13	Pass

4.1.2 B13_10MHz

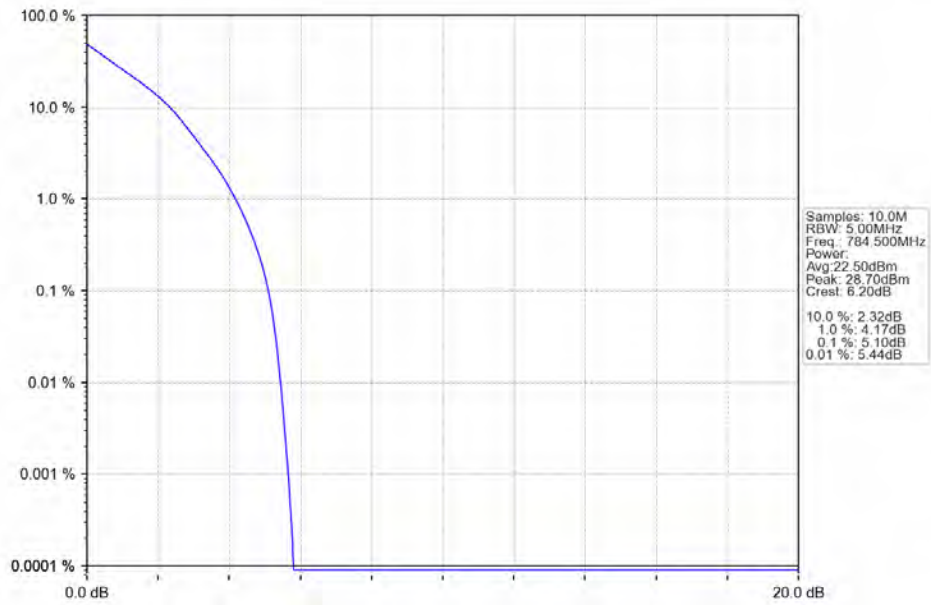
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.10	<=13	Pass
16QAM	782	50	0	5.84	<=13	Pass
64QAM	782	50	0	6.20	<=13	Pass

4.2 Test Graph

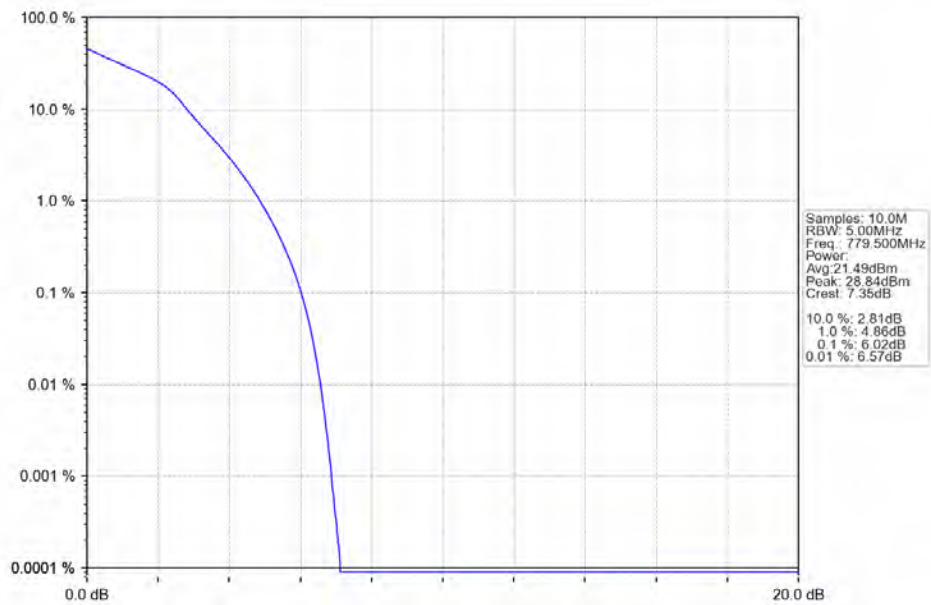
4.2.1 B13_5MHz



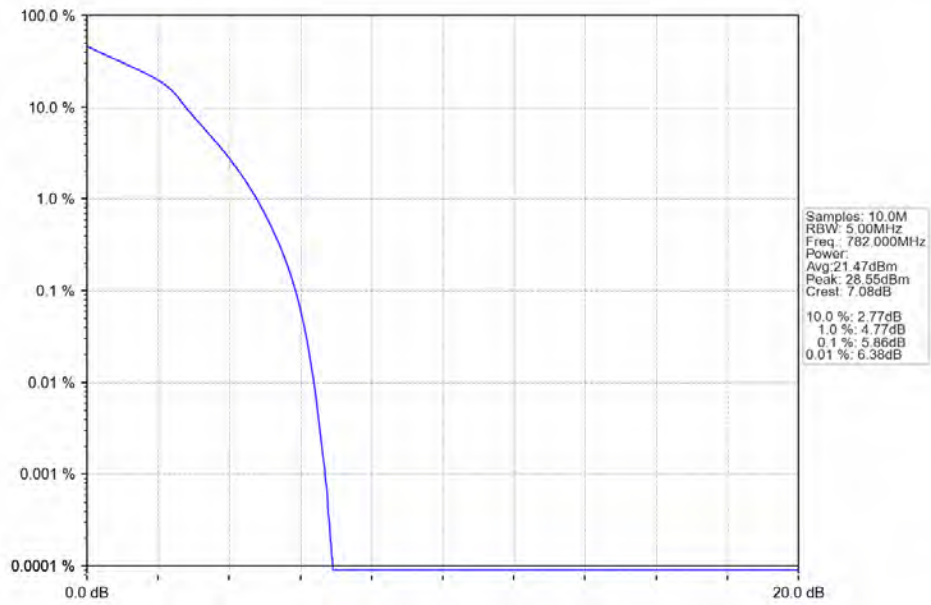
Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTN



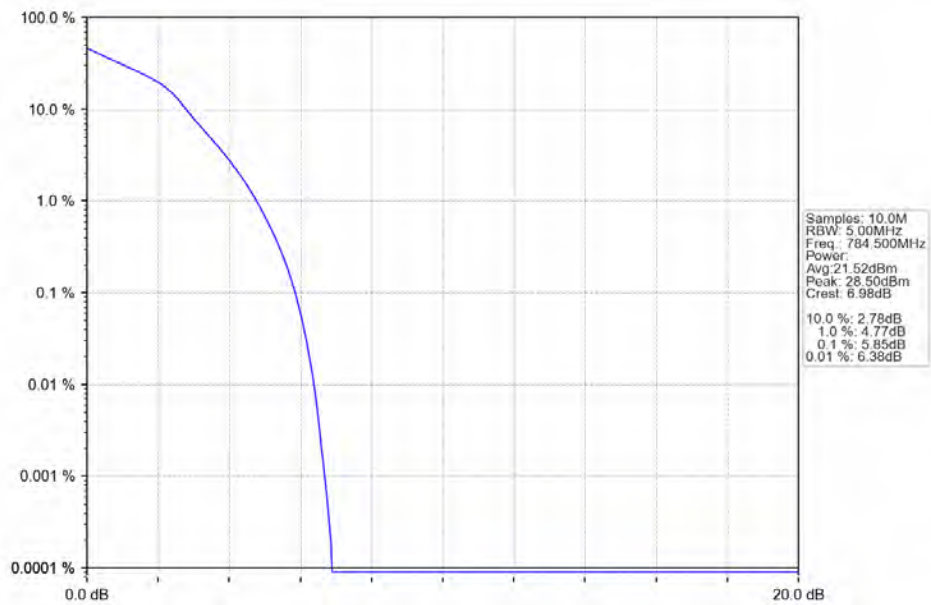
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTN



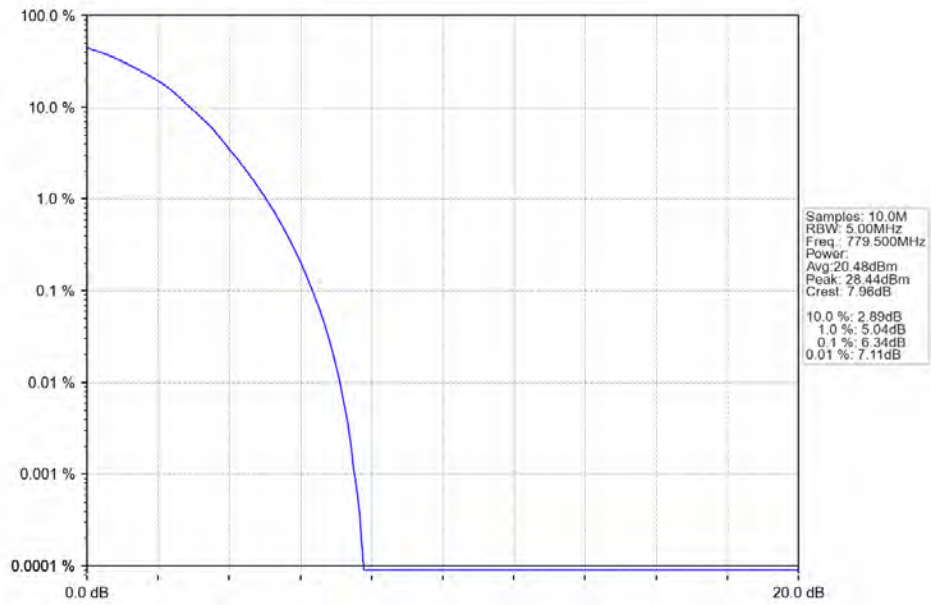
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTN



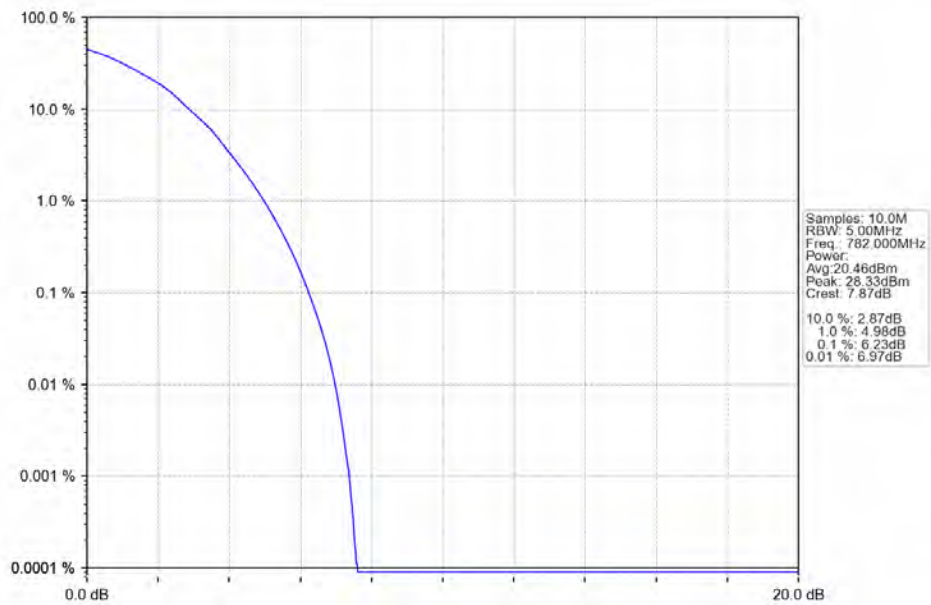
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0 NTN



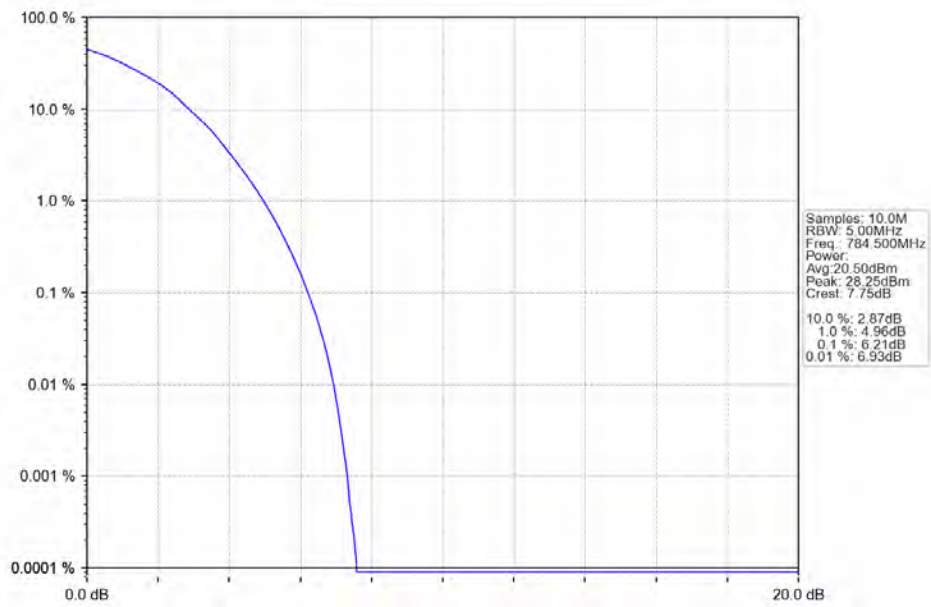
Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



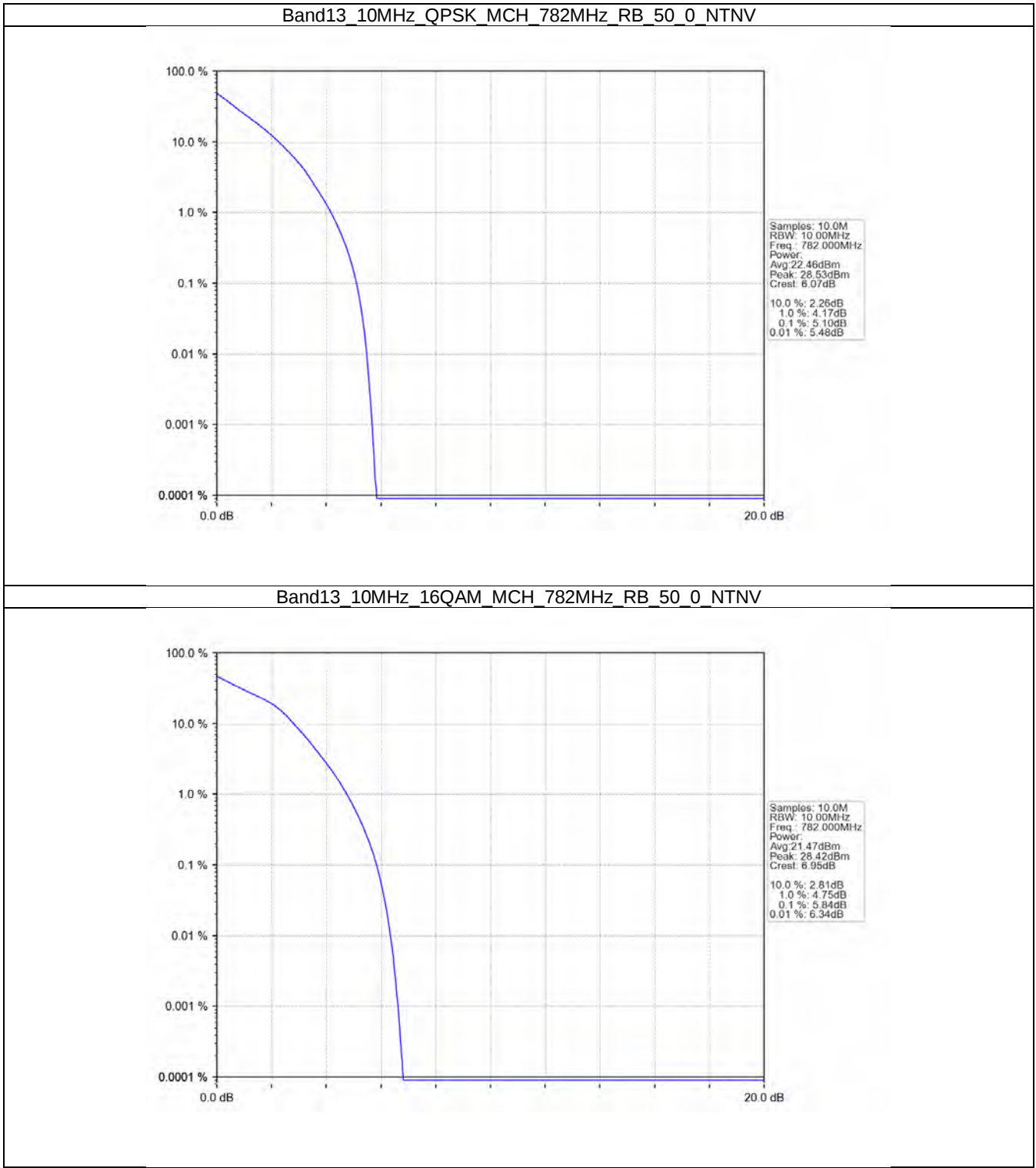
Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



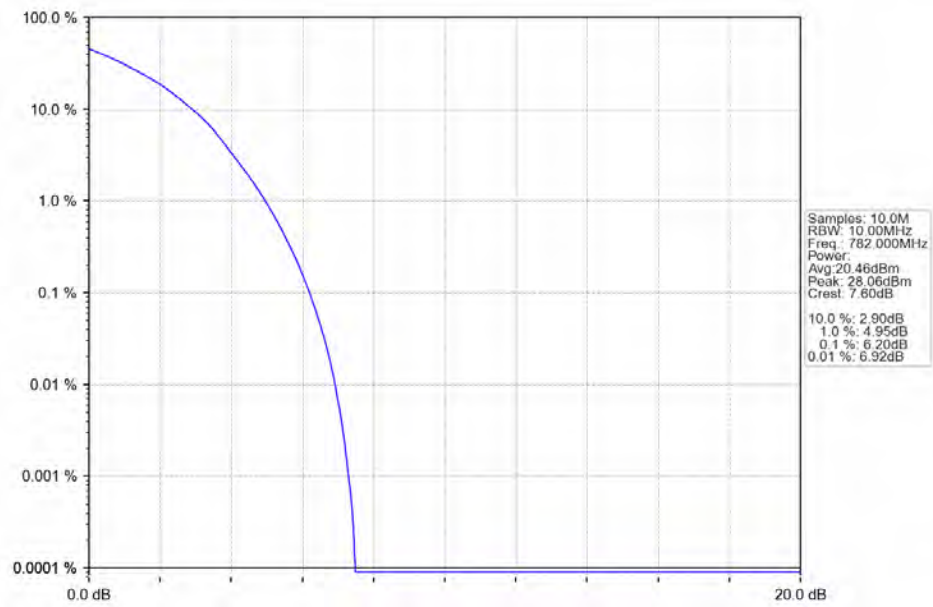
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTV



4.2.2 B13_10MHz



Band13 10MHz 64QAM MCH 782MHz RB 50 0 NTV



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

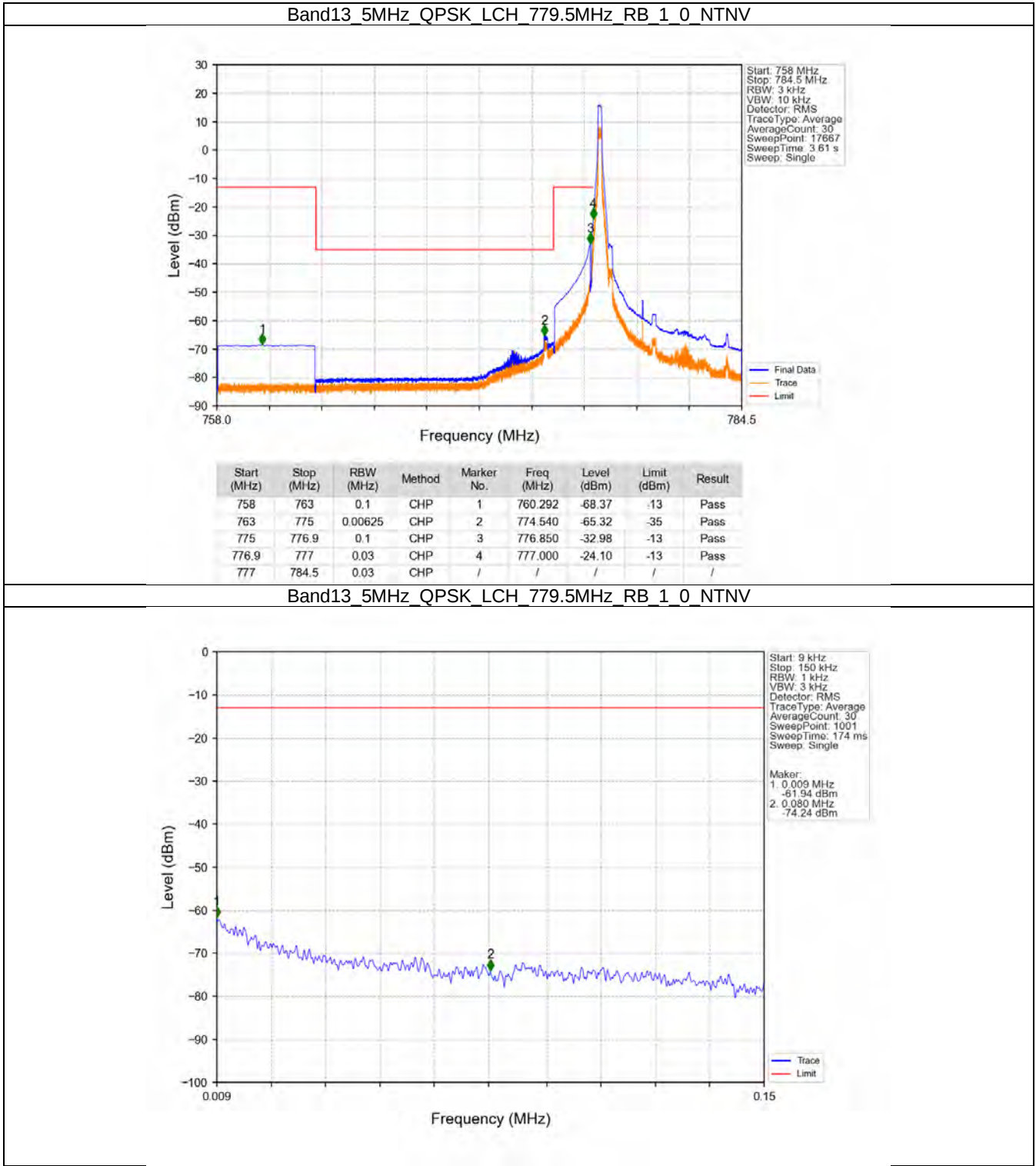
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B13_10MHz

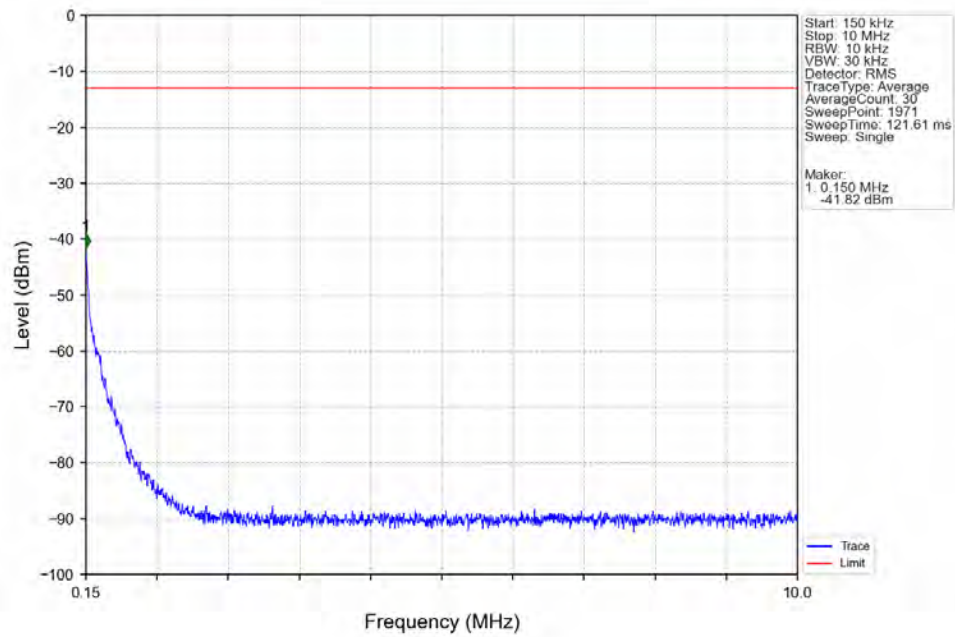
Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

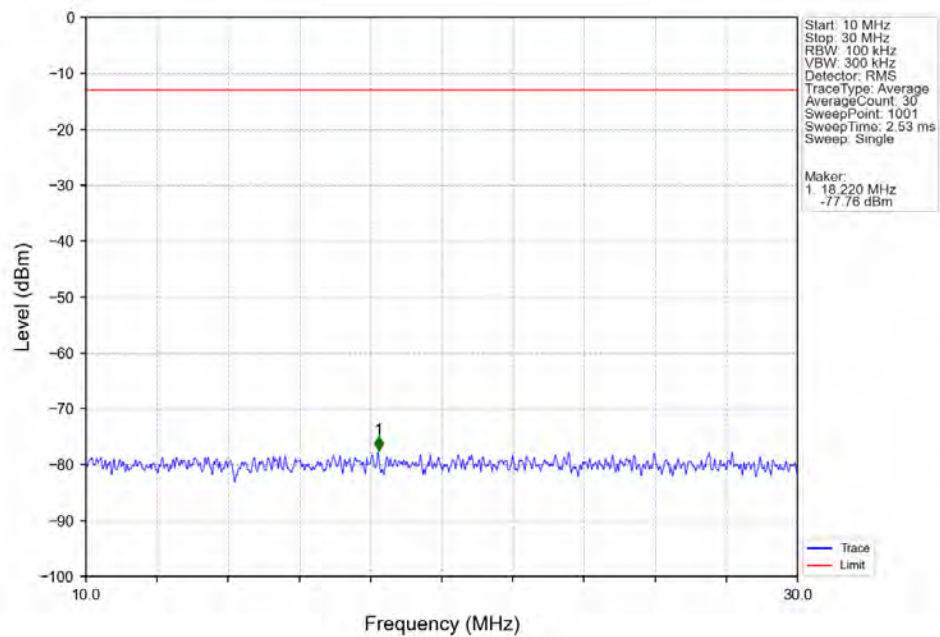
5.2.1 B13_5MHz



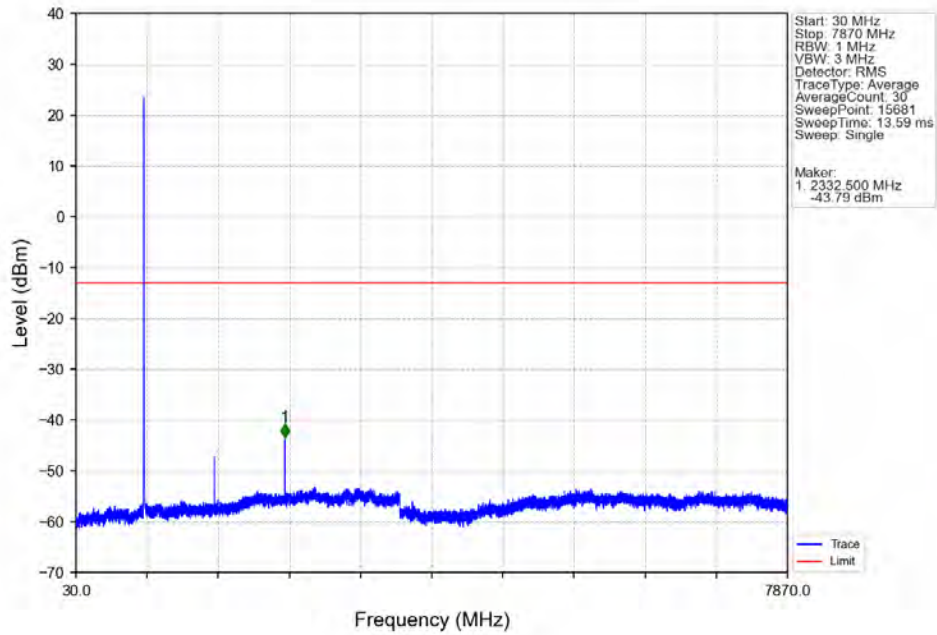
Band13 5MHz QPSK LCH 779.5MHz RB 1 0 NTNV



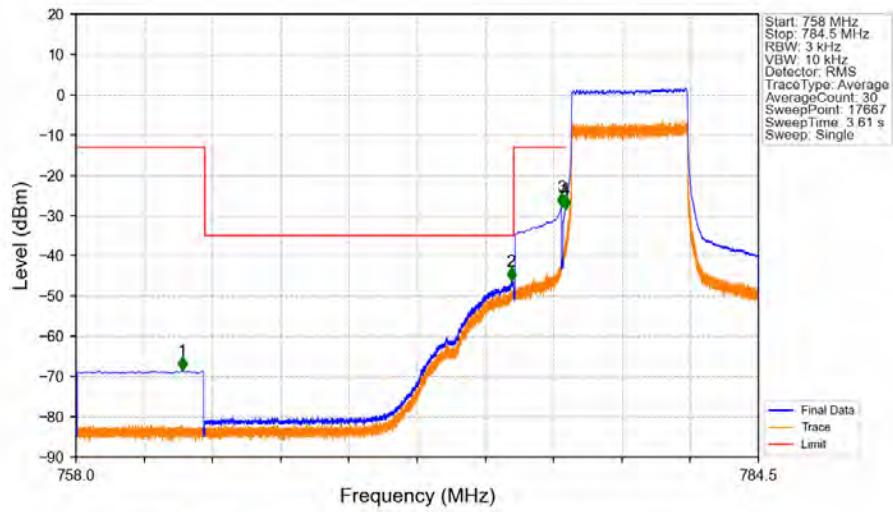
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



Band13 5MHz QPSK LCH 779.5MHz RB 1 0 NTN

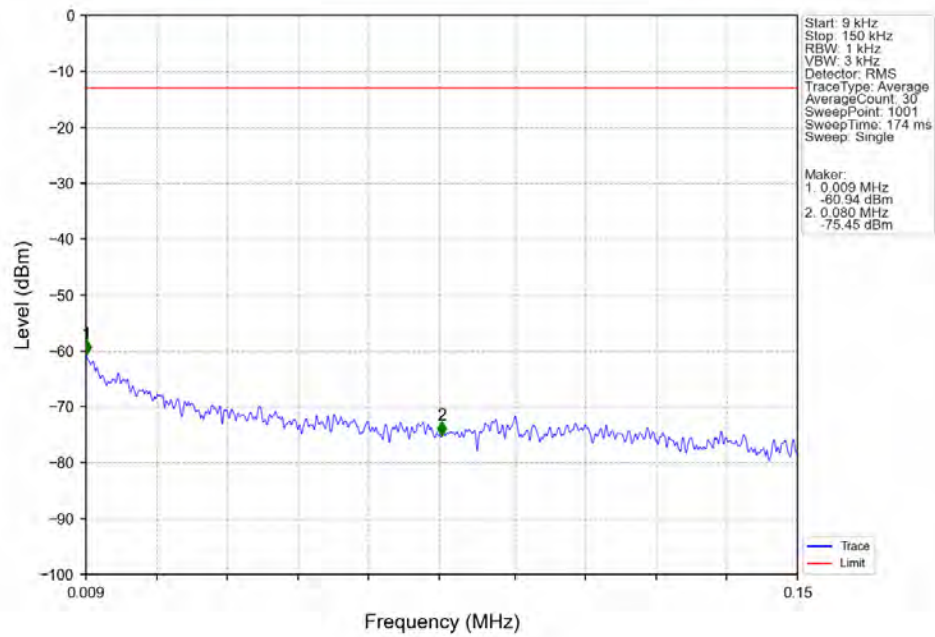


Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTN

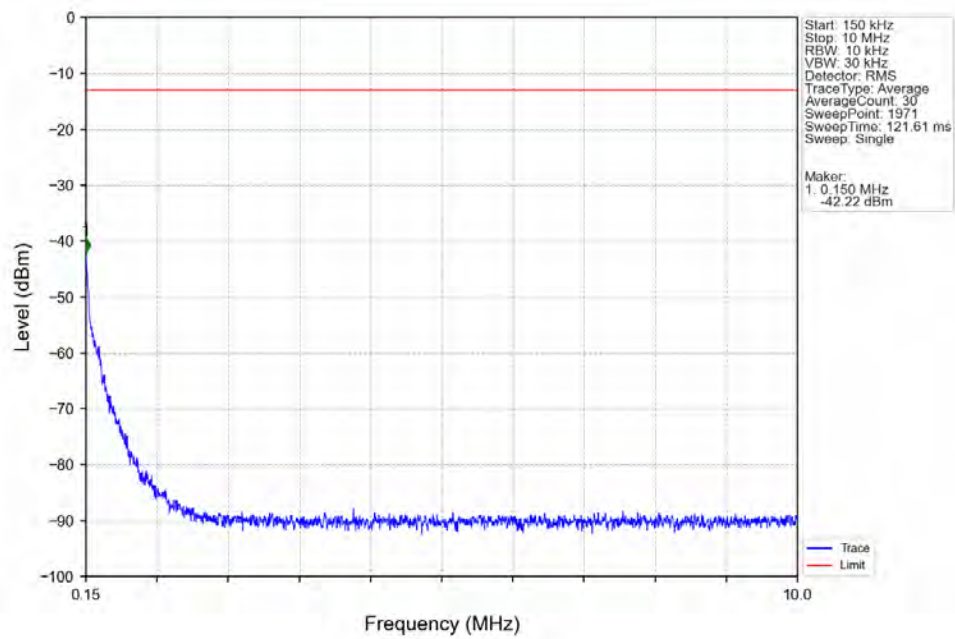


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.130	-68.58	-13	Pass
763	775	0.00625	CHP	2	774.903	-46.25	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.81	-13	Pass
776.9	777	0.03	CHP	4	777.000	-28.41	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

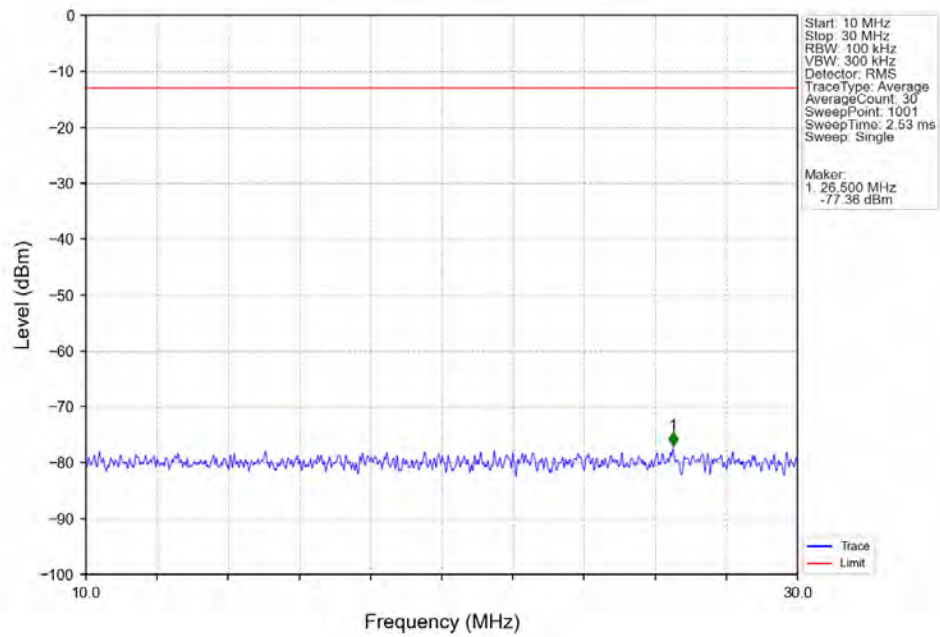
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



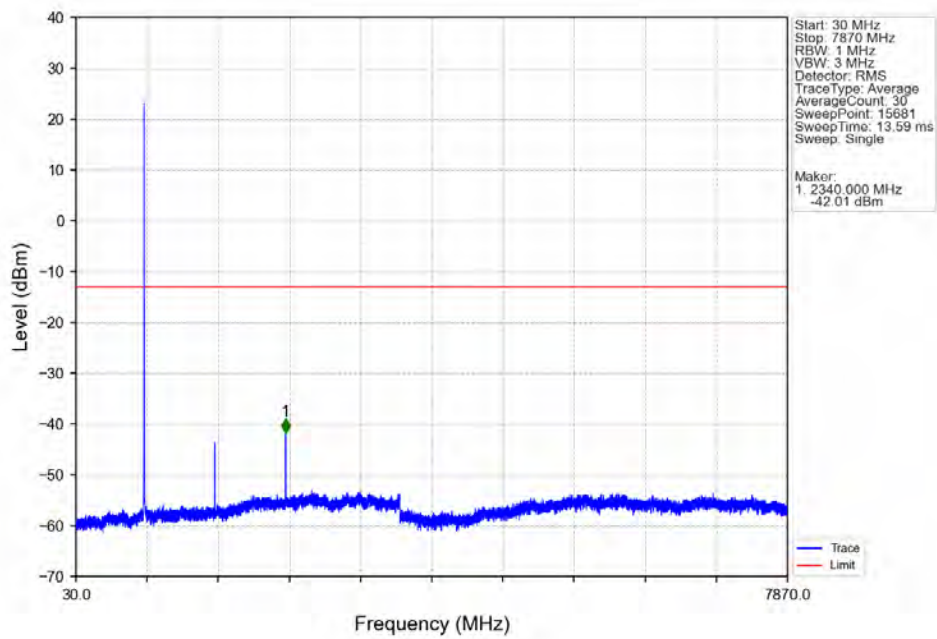
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



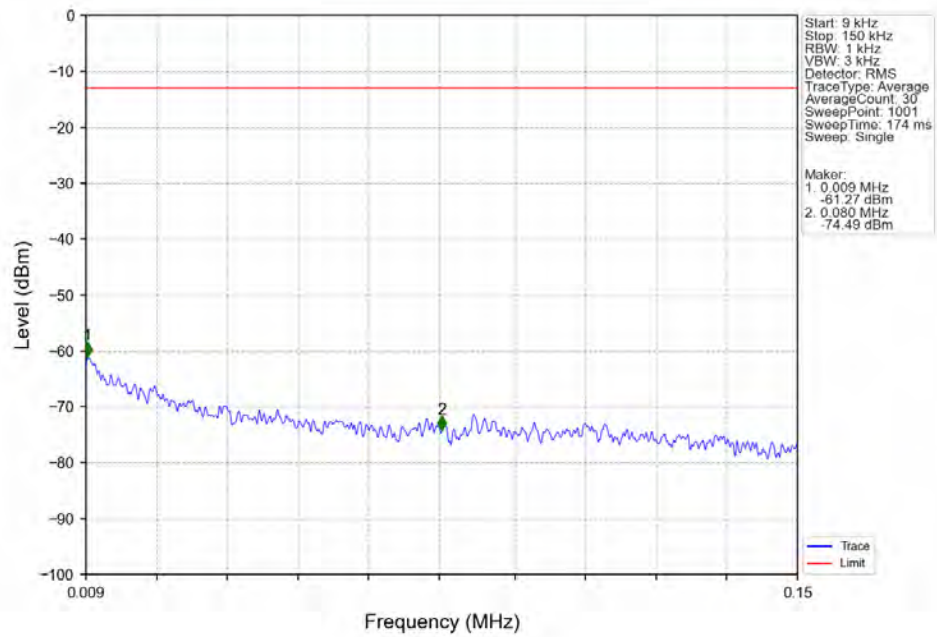
Band13 5MHz QPSK MCH 782MHz RB 1 0 NTNV



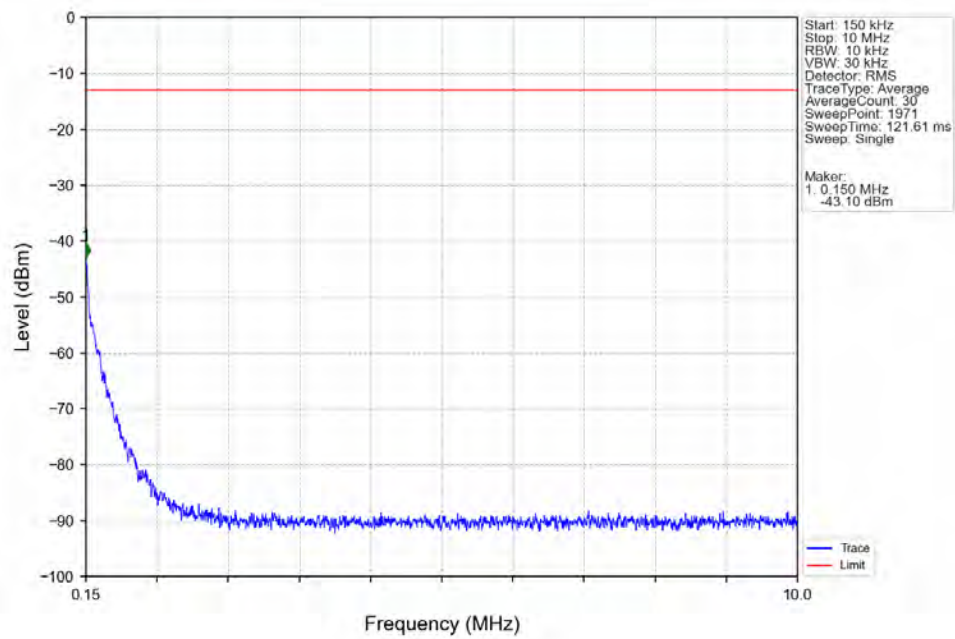
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



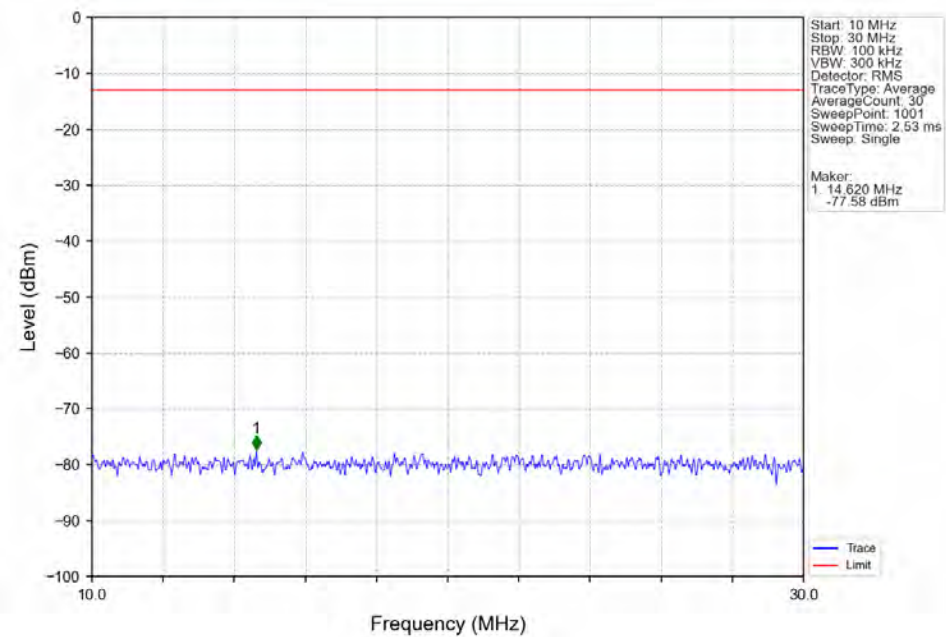
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



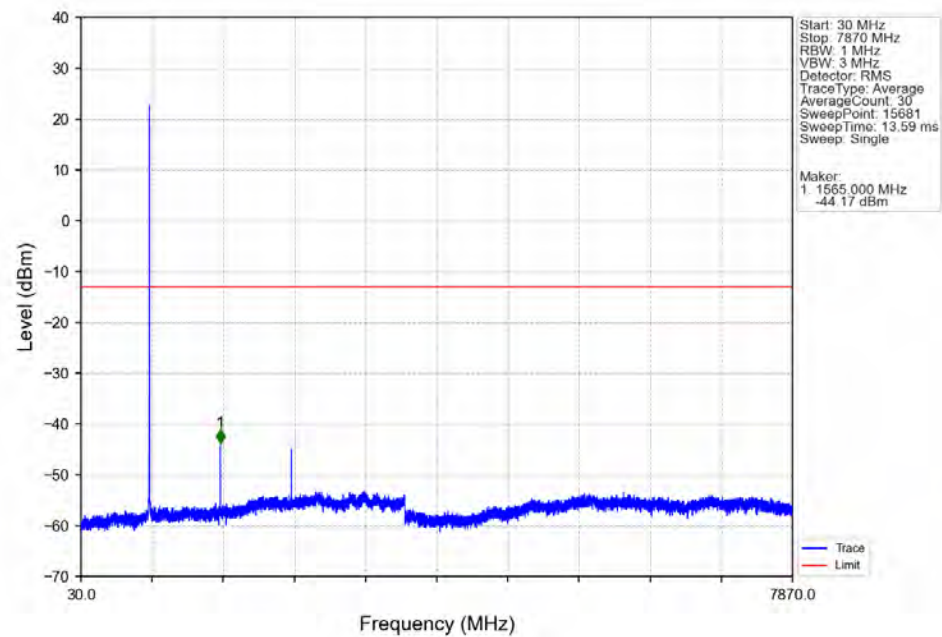
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTN



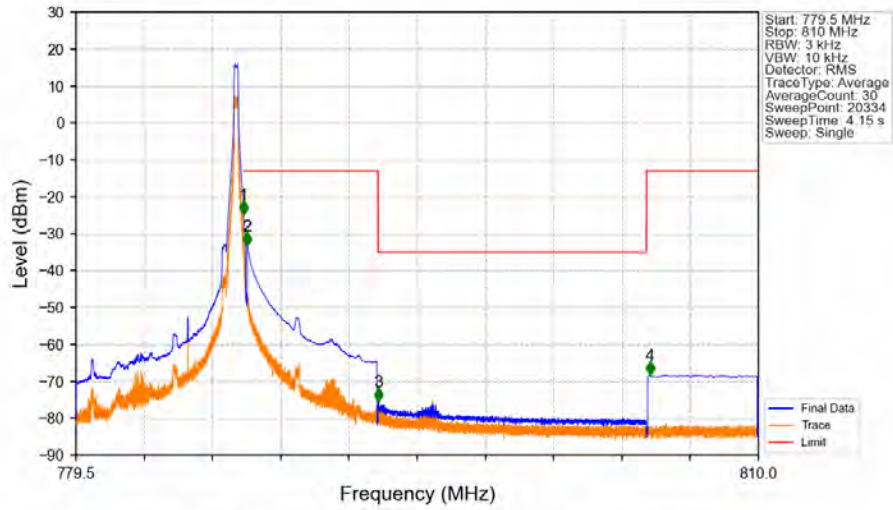
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV



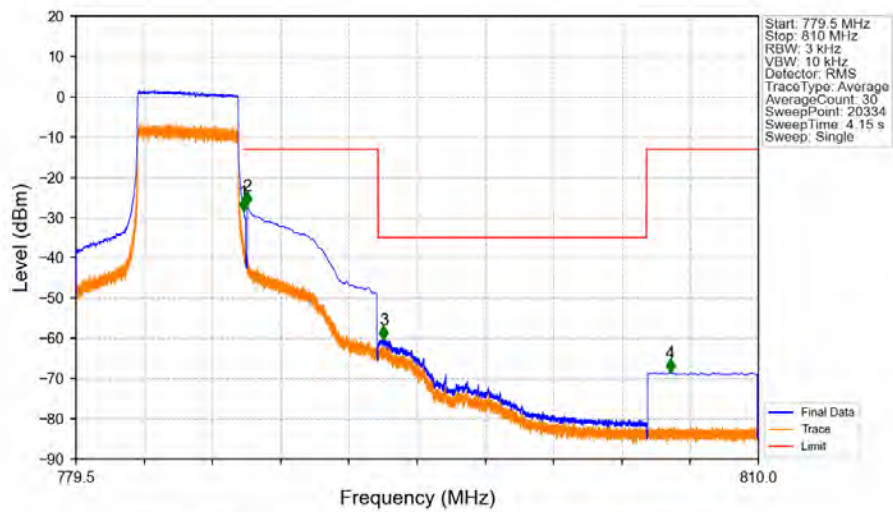
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV



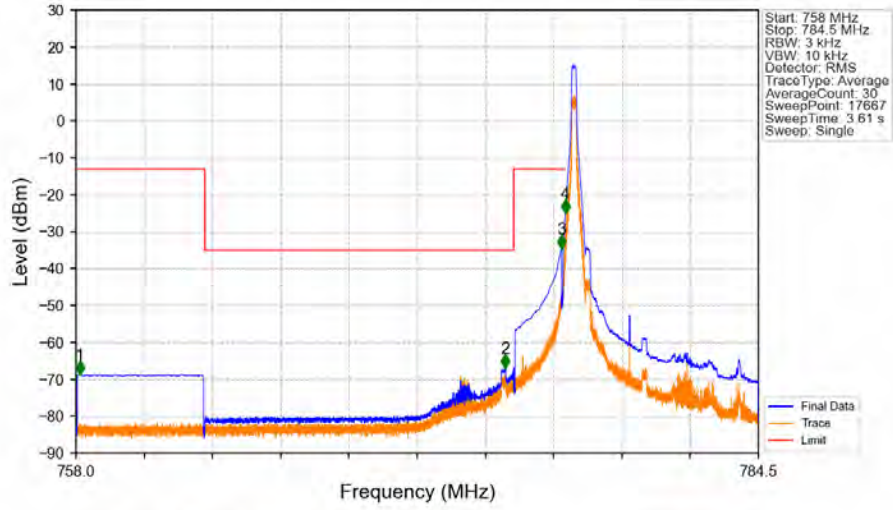
Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTV

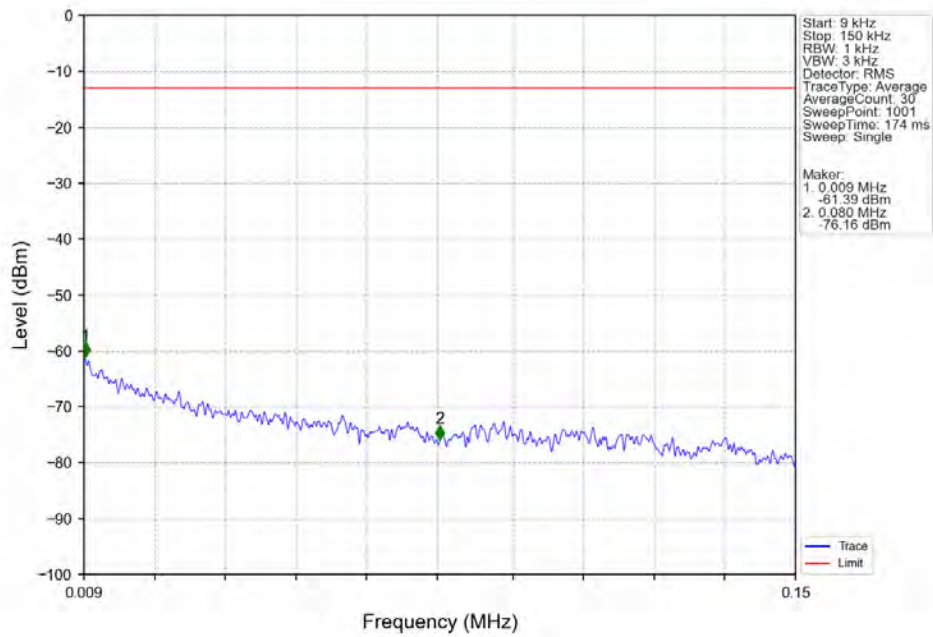


Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV

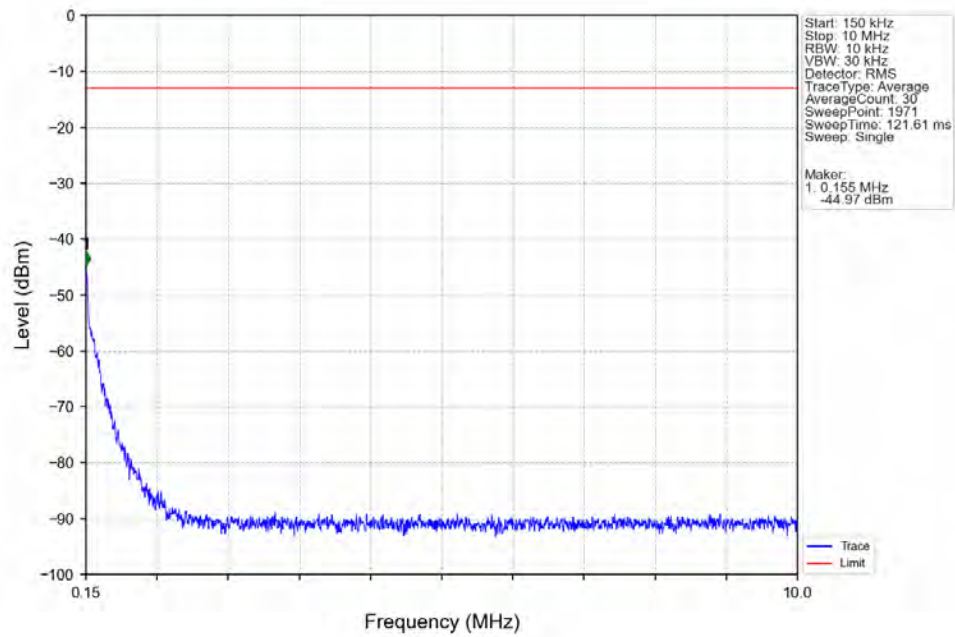


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.147	-68.65	-13	Pass
763	775	0.00625	CHP	2	774.670	-67.08	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.58	-13	Pass
776.9	777	0.03	CHP	4	777.000	-24.98	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

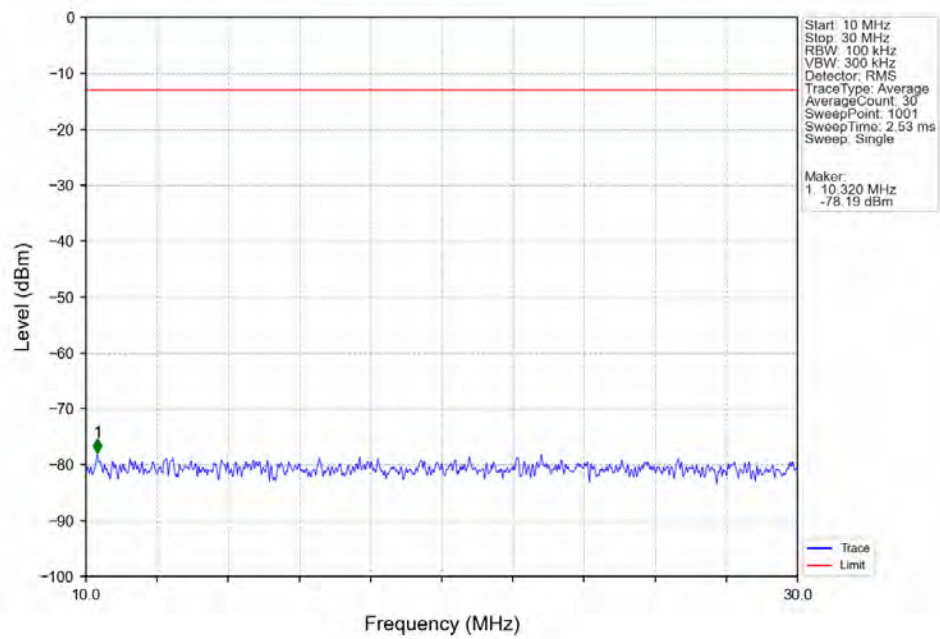
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTV



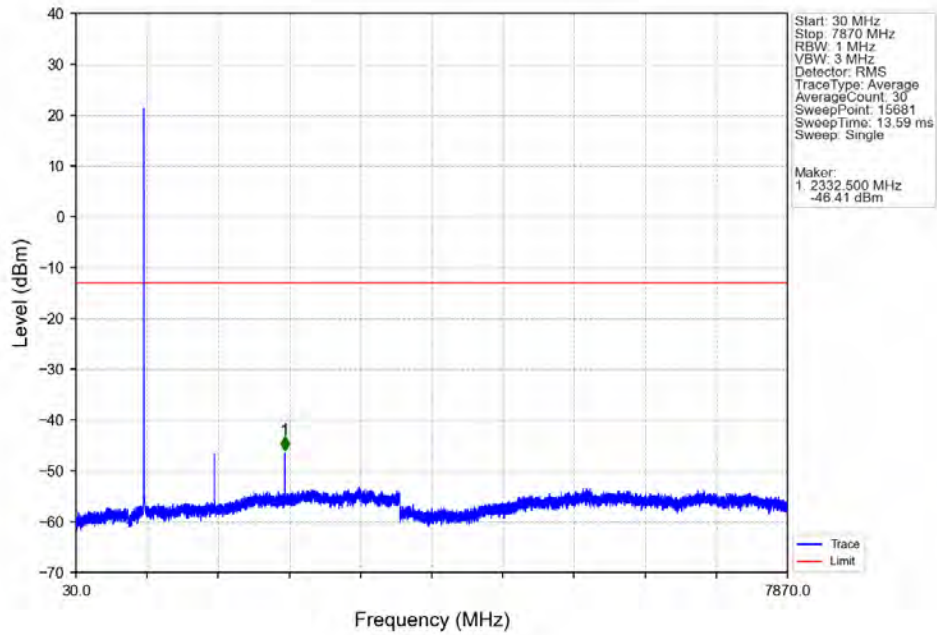
Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV



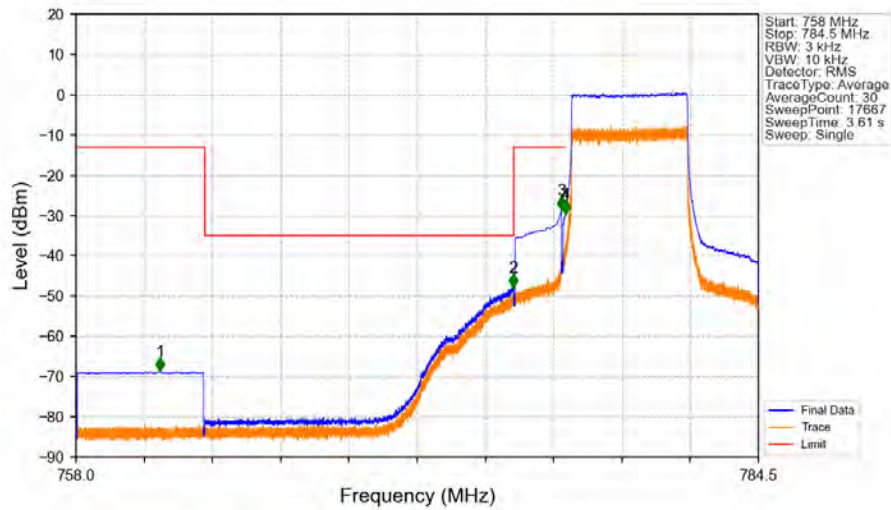
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTV



Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTNV

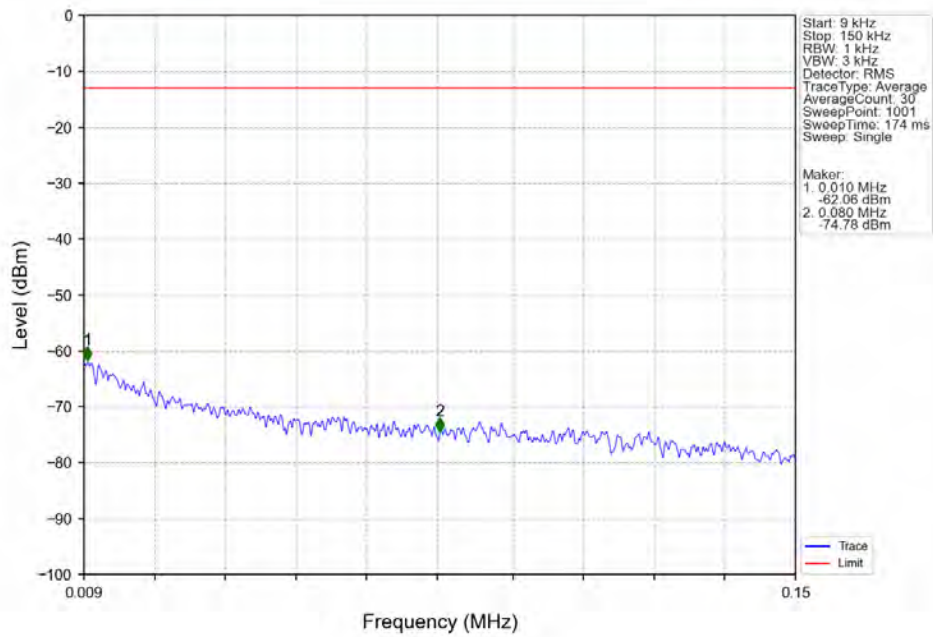


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

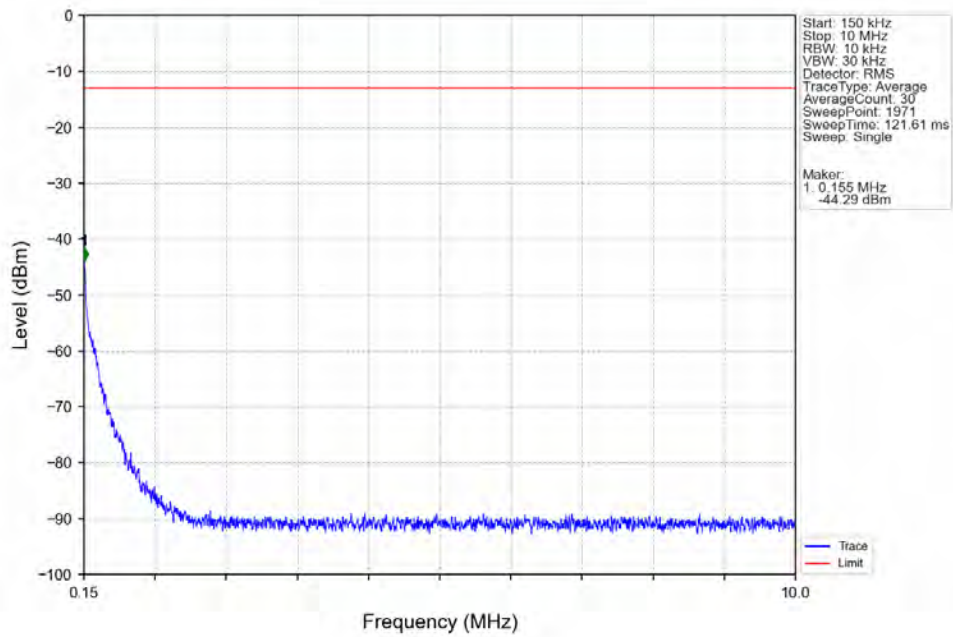


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.266	-68.79	-13	Pass
763	775	0.00625	CHP	2	774.990	-47.79	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.61	-13	Pass
776.9	777	0.03	CHP	4	777.000	-29.63	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

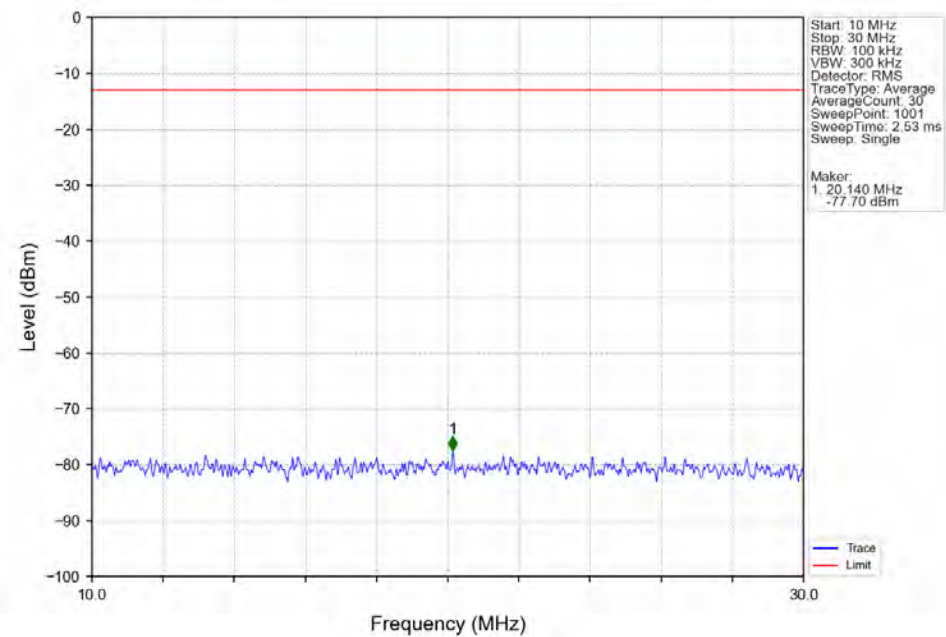
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



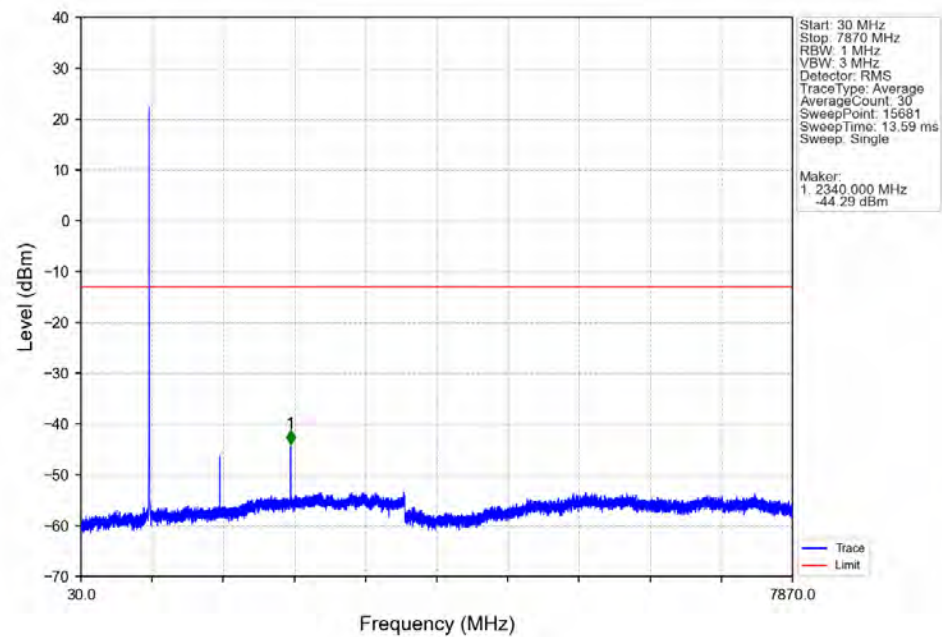
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0 NTN



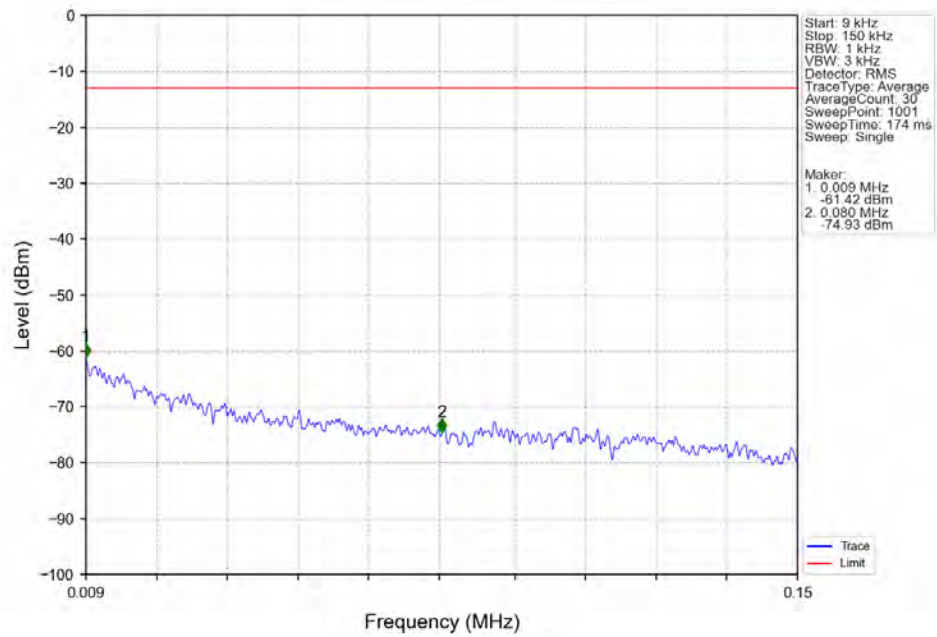
Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



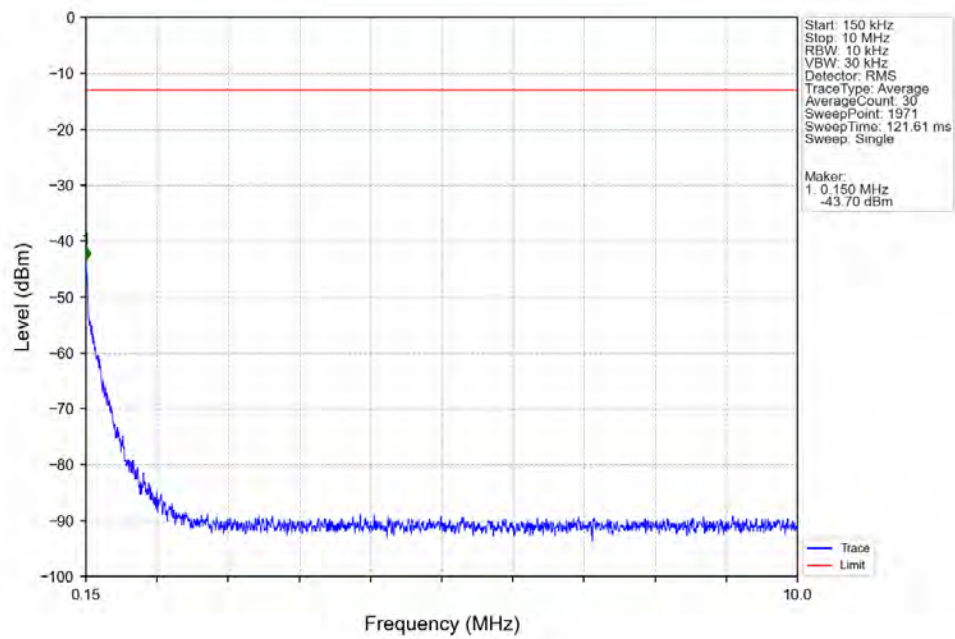
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0 NTN



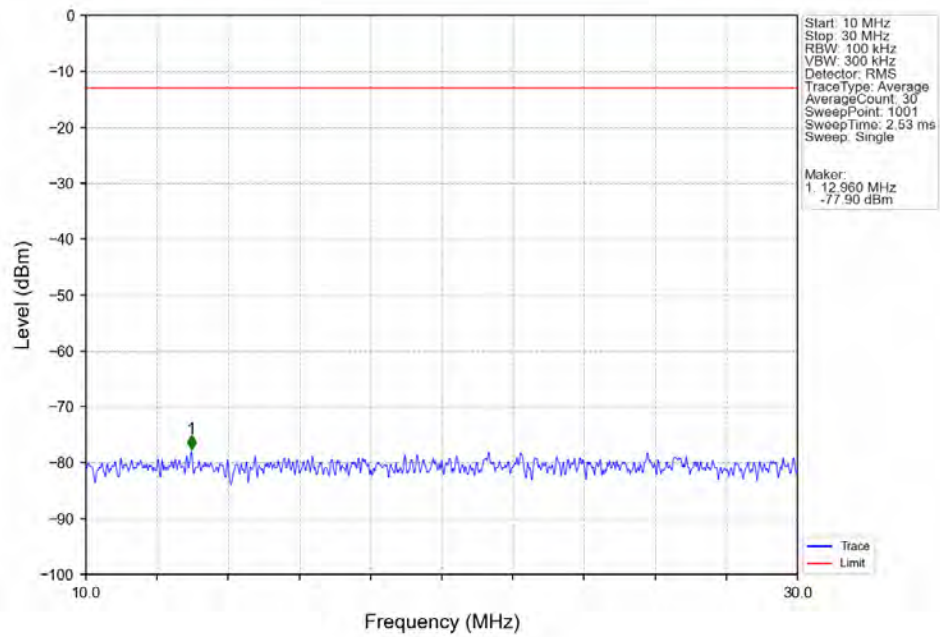
Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTNV



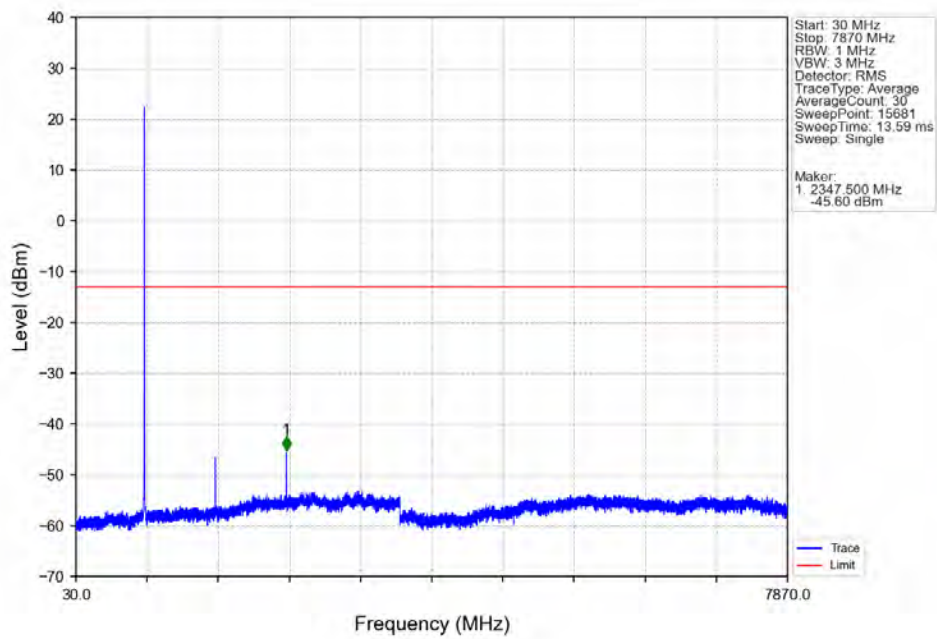
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



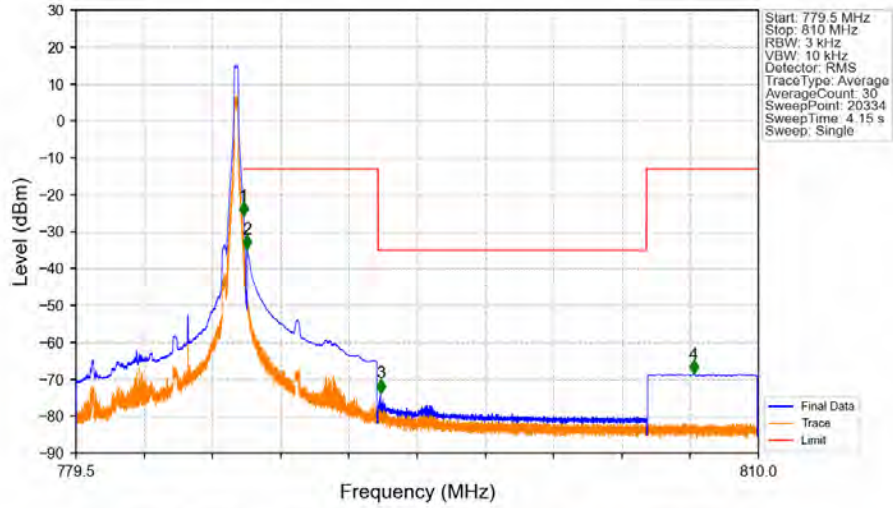
Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTV

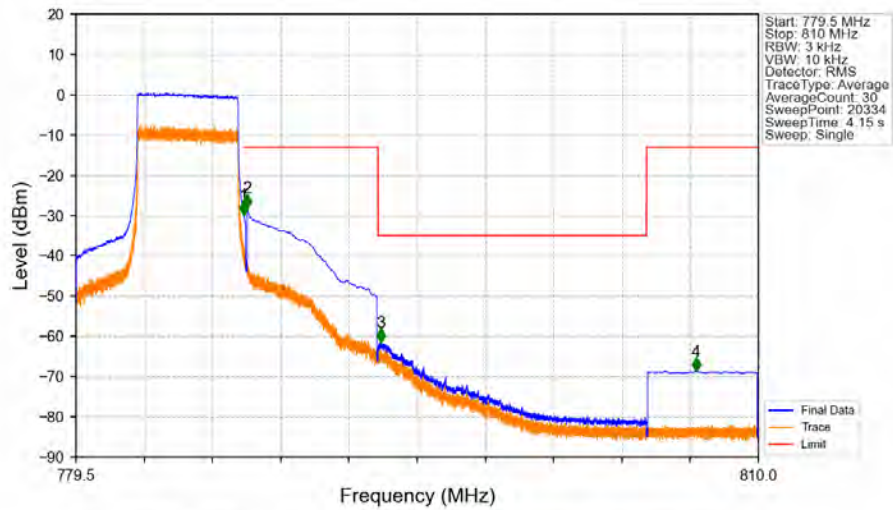


Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



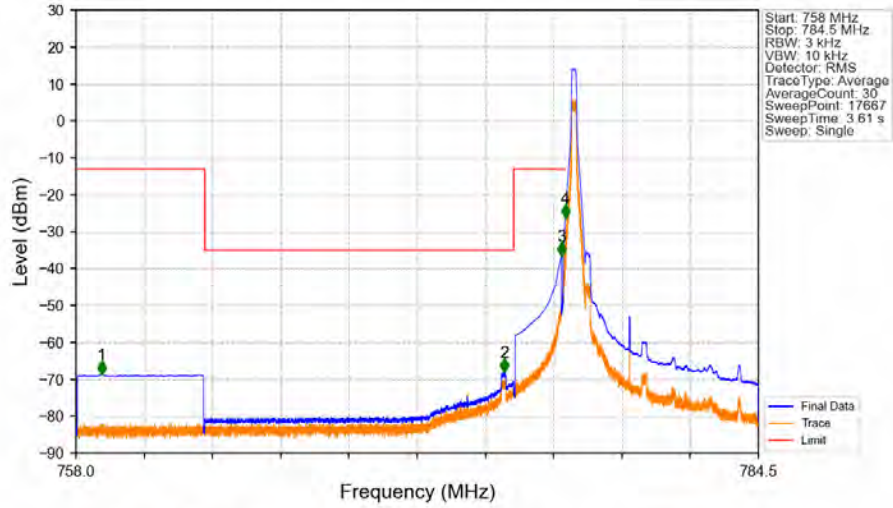
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-25.64	-13	Pass
787.1	793	0.1	CHP	2	787.150	-34.62	-13	Pass
793	805	0.00625	CHP	3	793.110	-73.65	-35	Pass
805	810	0.1	CHP	4	807.103	-68.59	-13	Pass

Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV



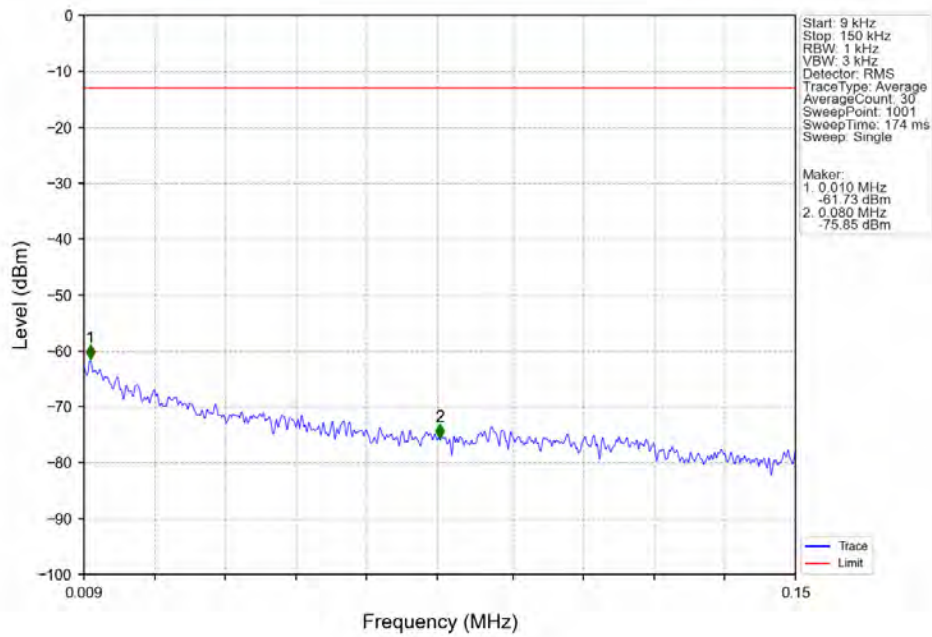
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-29.88	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.13	-13	Pass
793	805	0.00625	CHP	3	793.119	-61.47	-35	Pass
805	810	0.1	CHP	4	807.210	-68.69	-13	Pass

Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTNV

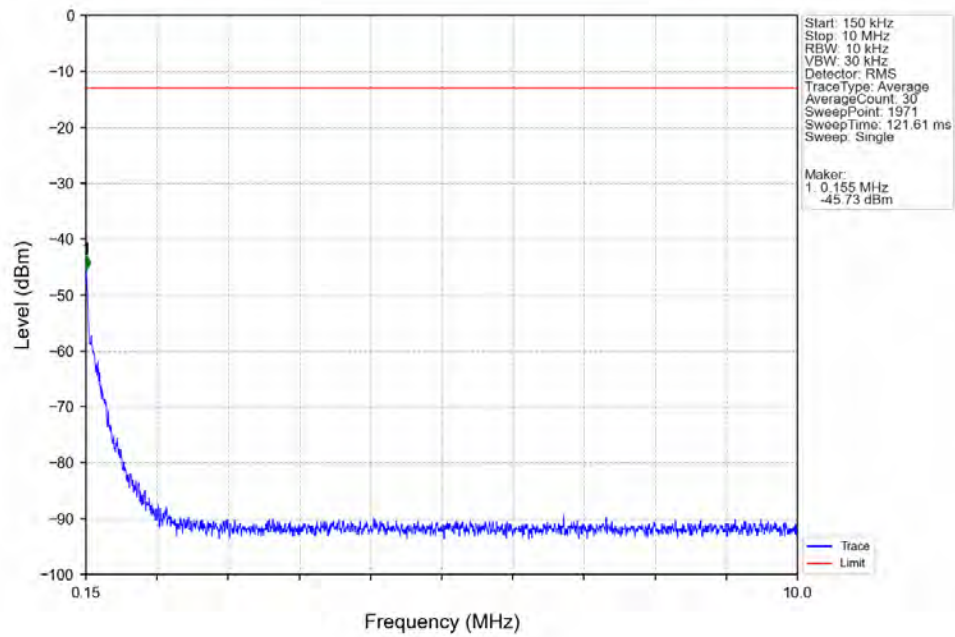


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.987	-68.73	-13	Pass
763	775	0.00625	CHP	2	774.648	-68.09	-35	Pass
775	776.9	0.1	CHP	3	776.850	-36.63	-13	Pass
776.9	777	0.03	CHP	4	777.000	-26.37	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

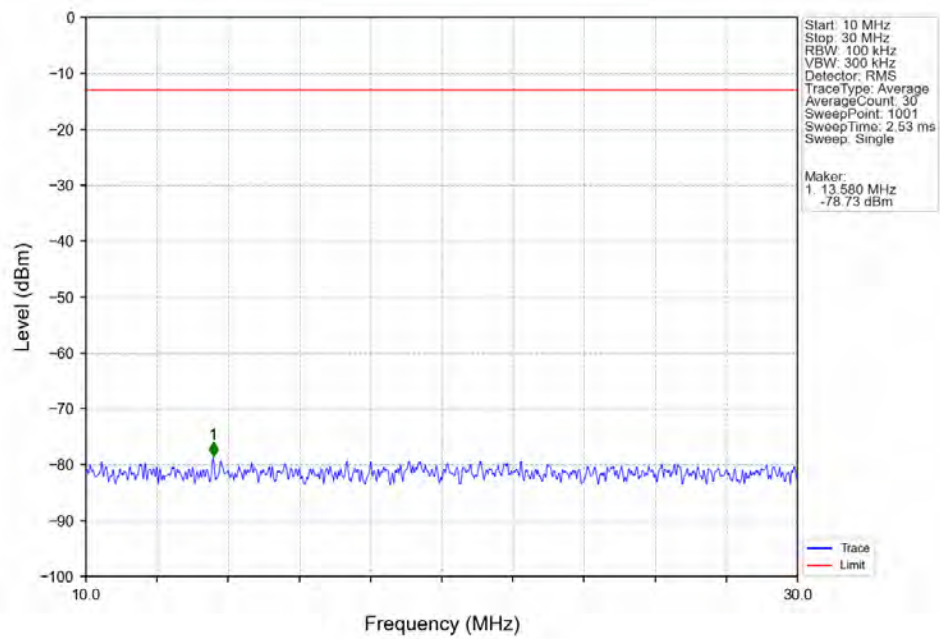
Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV



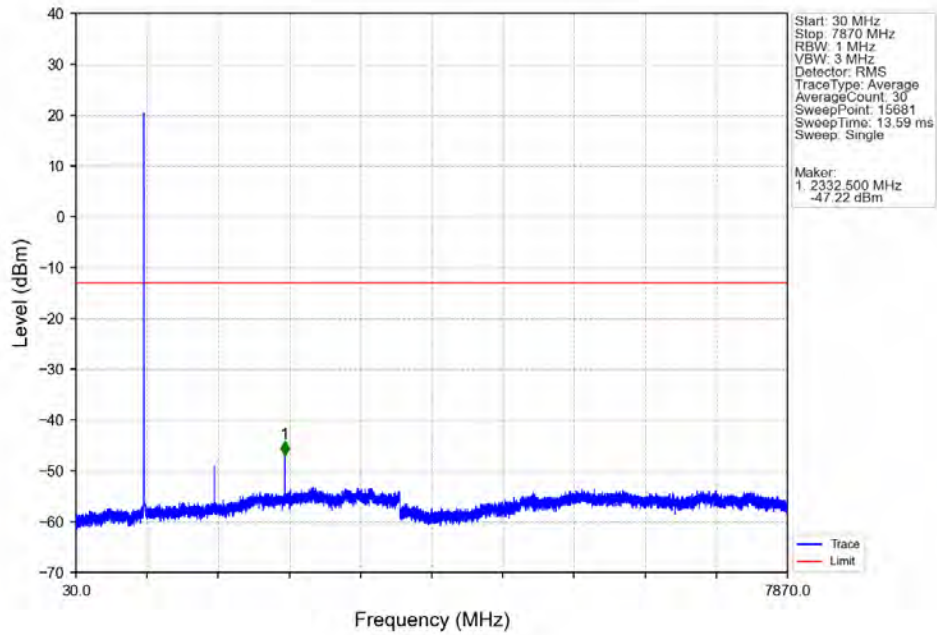
Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTV



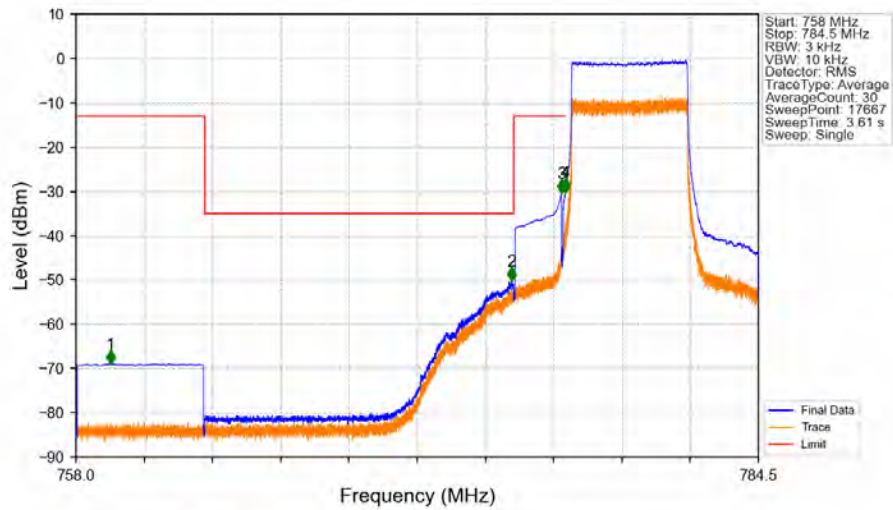
Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTV



Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTNV

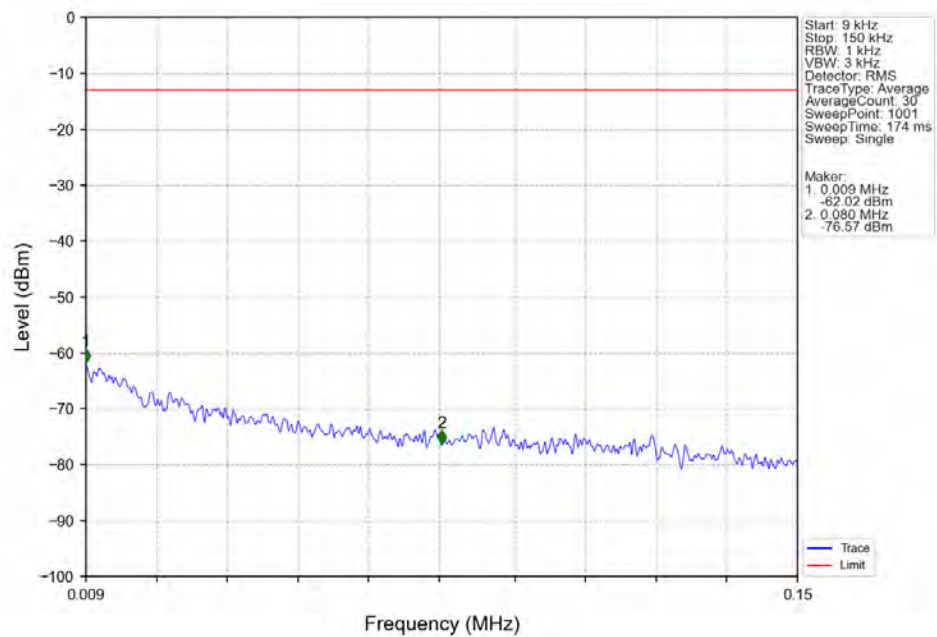


Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV

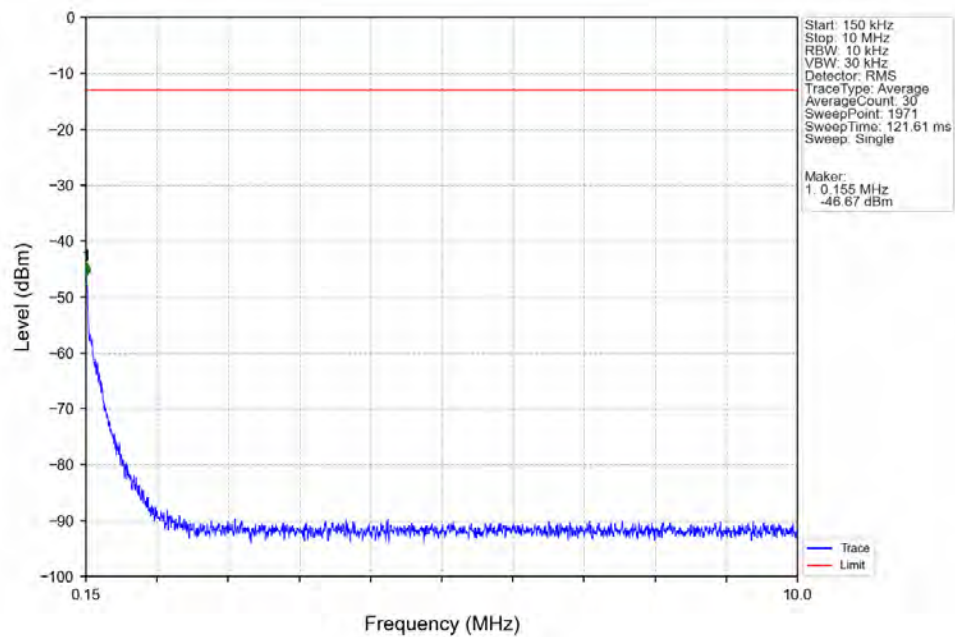


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.338	-68.95	-13	Pass
763	775	0.00625	CHP	2	774.918	-50.24	-35	Pass
775	776.9	0.1	CHP	3	776.850	-30.42	-13	Pass
776.9	777	0.03	CHP	4	777.000	-30.28	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

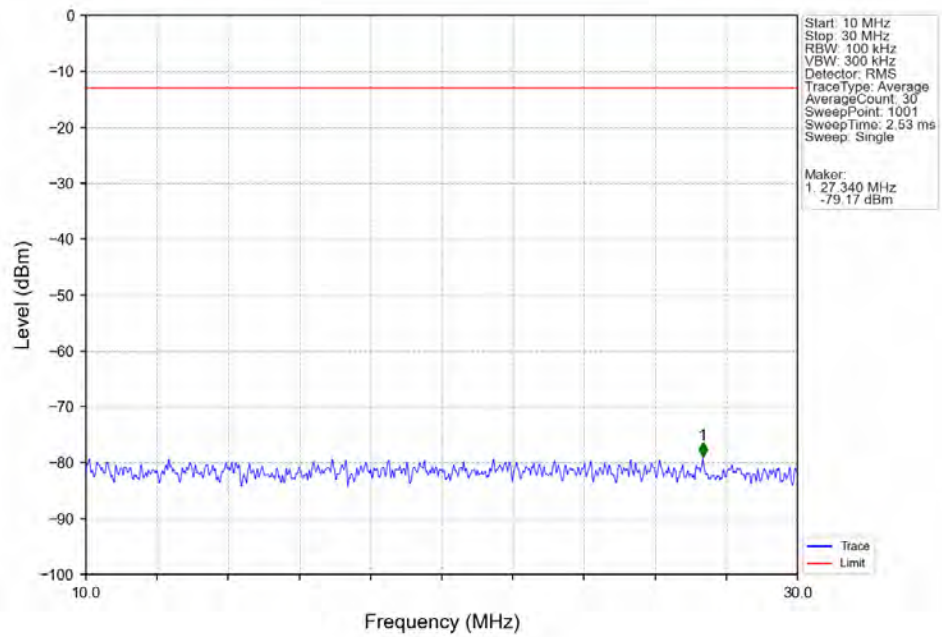
Band13 5MHz 64QAM MCH 782MHz RB 1 0 NTN



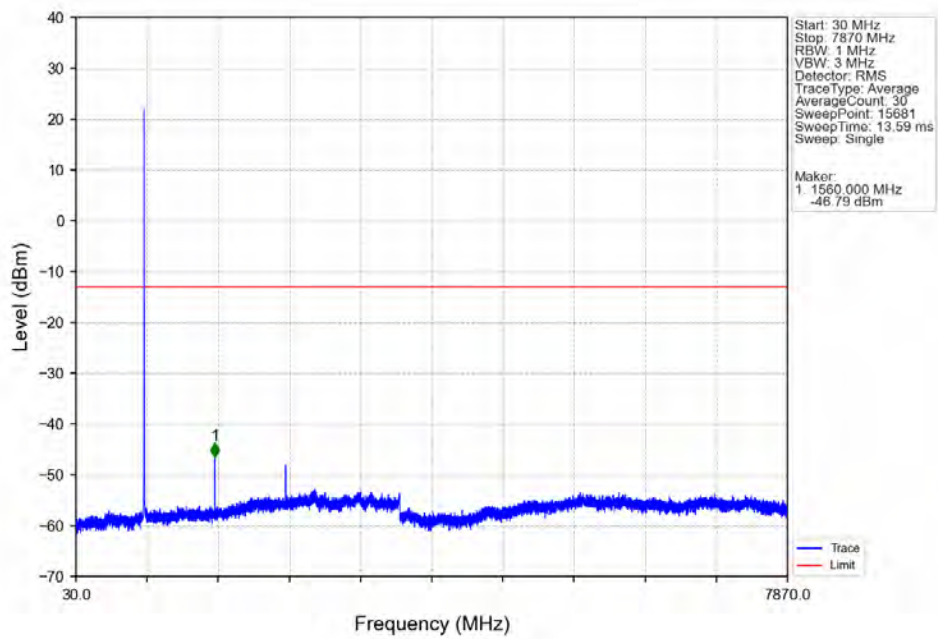
Band13_5MHz_64QAM_MCH_782MHz_RB_1_0 NTN



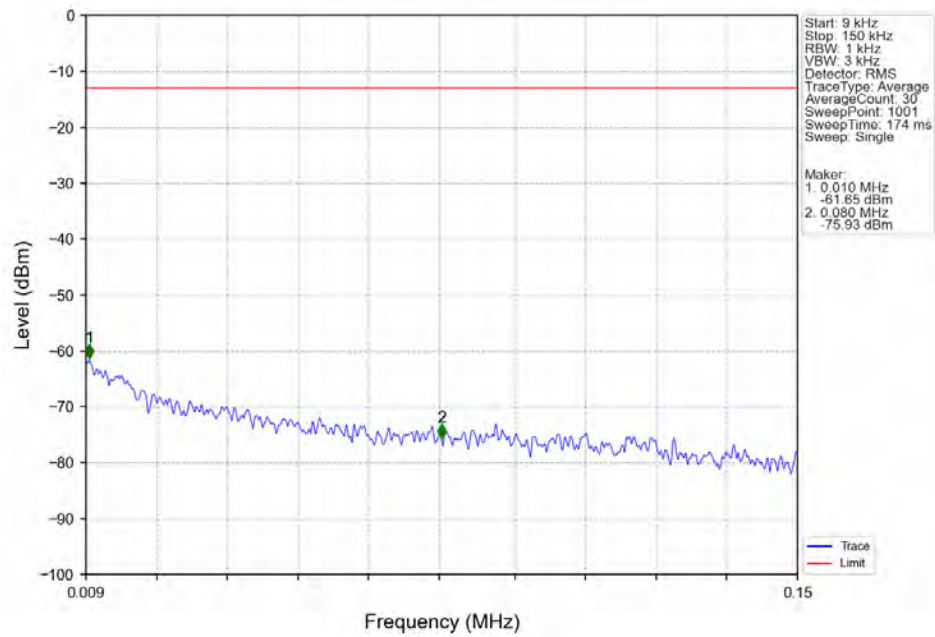
Band13 5MHz 64QAM MCH 782MHz RB 1 0 NTN



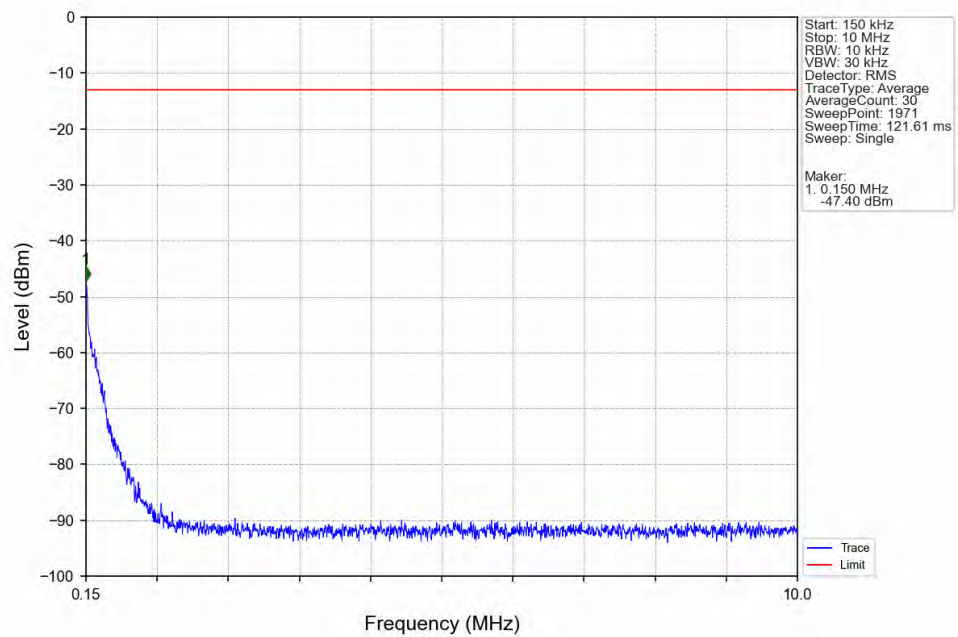
Band13_5MHz_64QAM_MCH_782MHz_RB_1_0 NTN



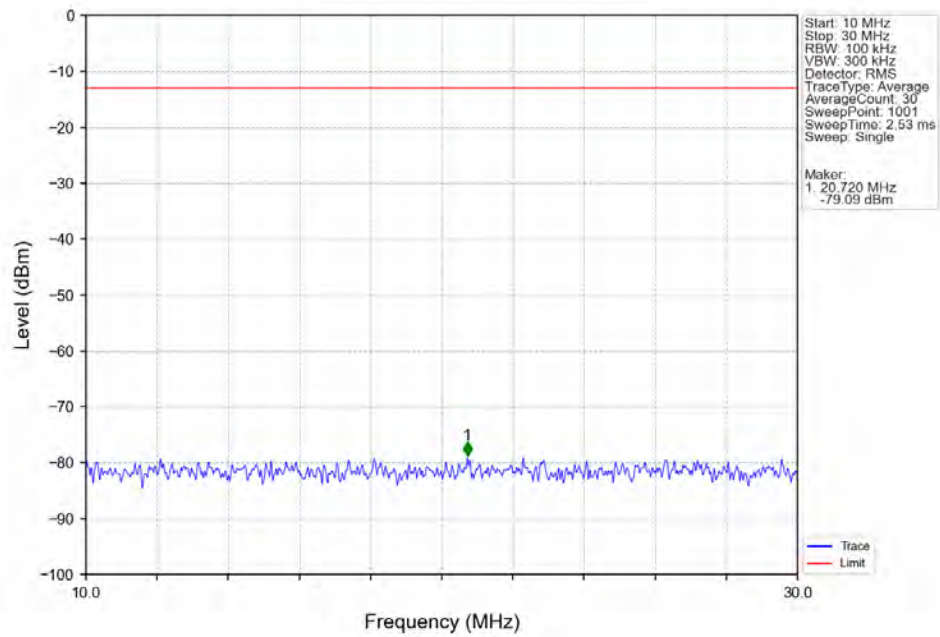
Band13 5MHz 64QAM HCH 784.5MHz RB 1 0 NTNV



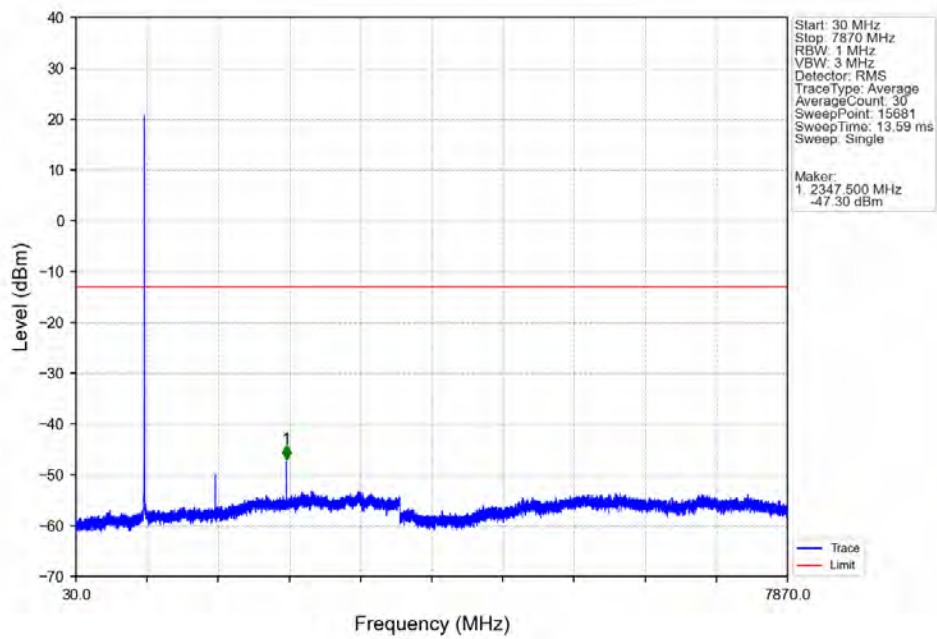
Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_0_NTNV



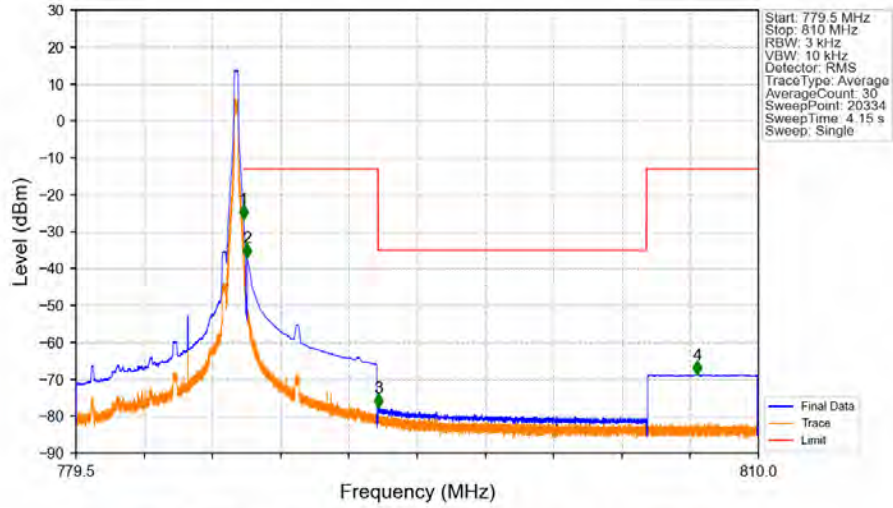
Band13 5MHz 64QAM HCH 784.5MHz RB 1 0 NTNV



Band13_5MHz_64QAM_HCH_784.5MHz_RB_1_0_NTNV

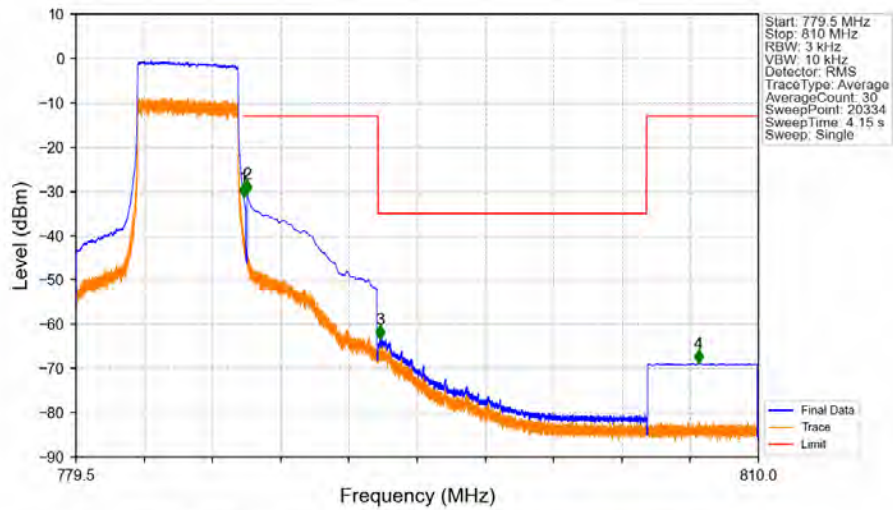


Band13 5MHz 64QAM HCH 784.5MHz RB 1 24 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-26.58	-13	Pass
787.1	793	0.1	CHP	2	787.150	-37.06	-13	Pass
793	805	0.00625	CHP	3	793.003	-77.77	-35	Pass
805	810	0.1	CHP	4	807.264	-68.70	-13	Pass

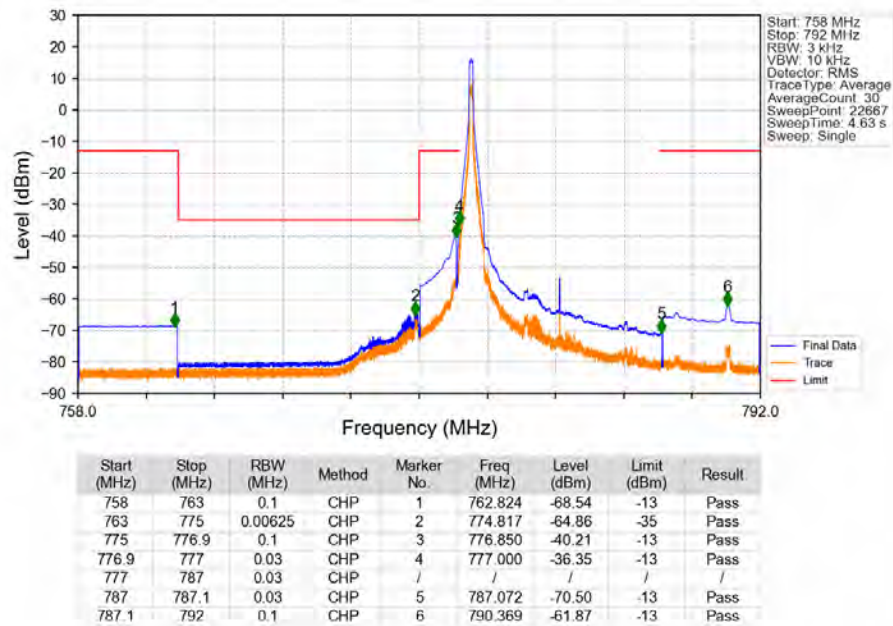
Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTNV



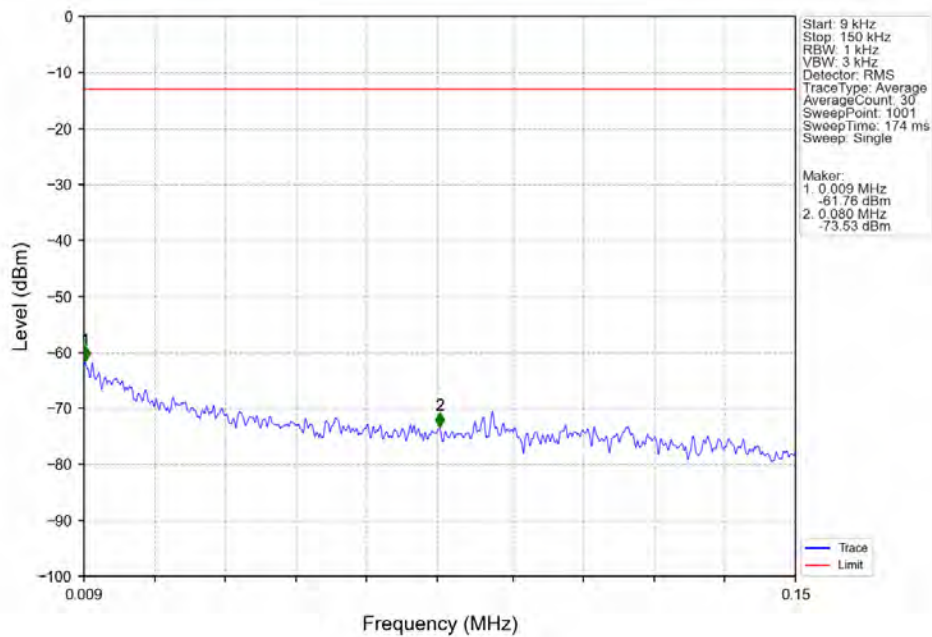
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-31.33	-13	Pass
787.1	793	0.1	CHP	2	787.150	-30.51	-13	Pass
793	805	0.00625	CHP	3	793.074	-63.27	-35	Pass
805	810	0.1	CHP	4	807.324	-68.77	-13	Pass

5.2.2 B13_10MHz

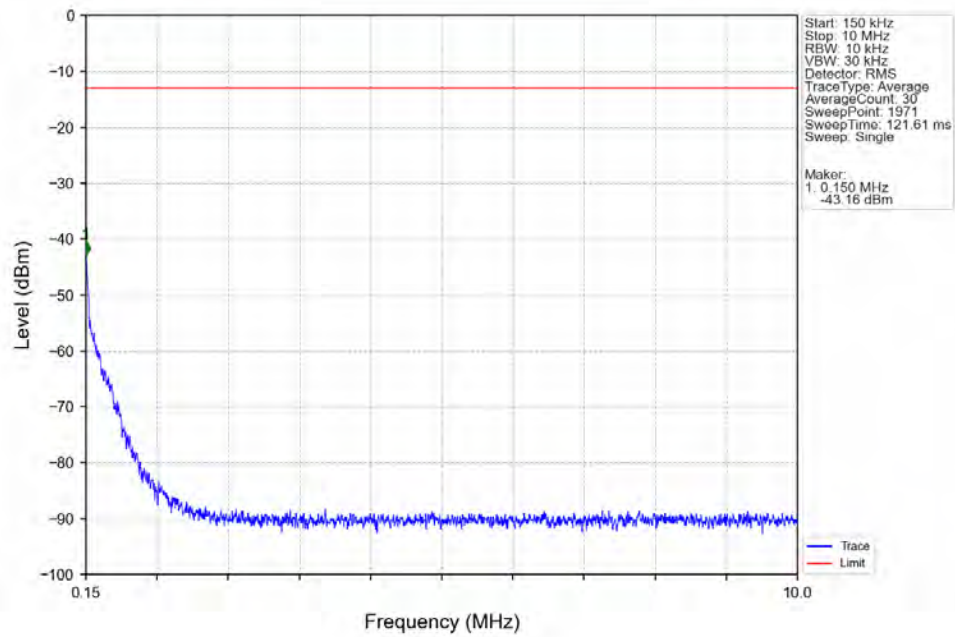
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



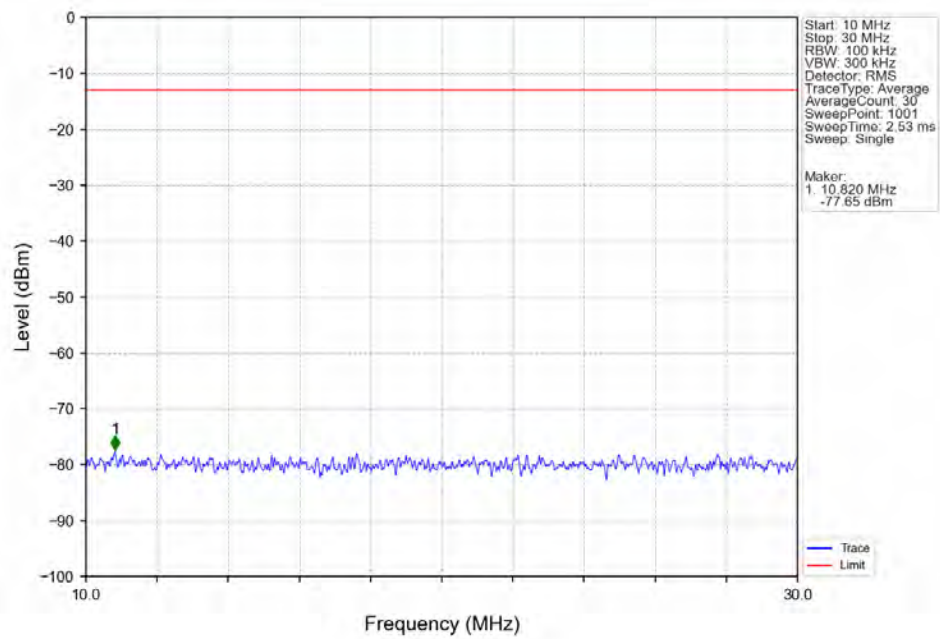
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



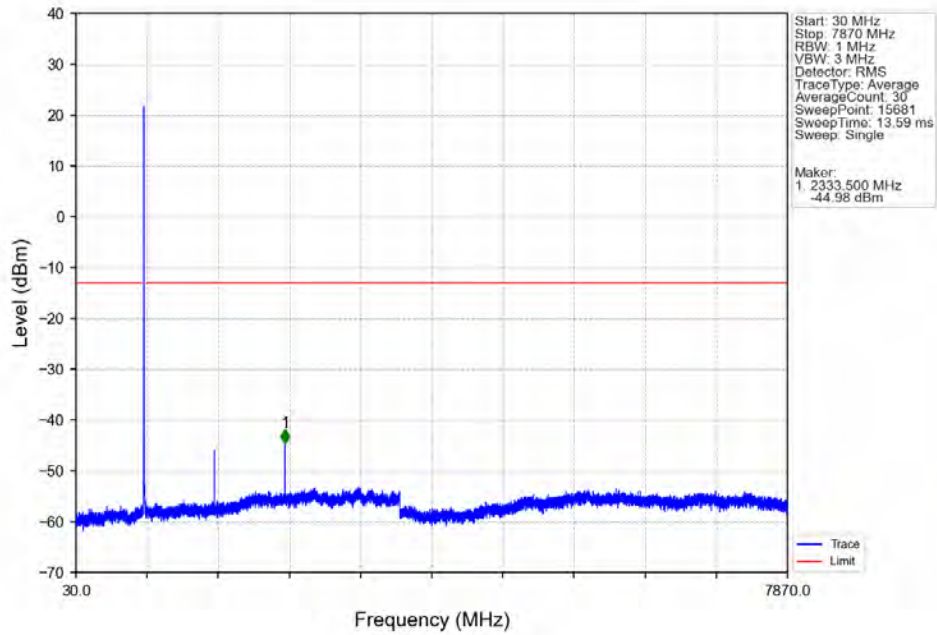
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



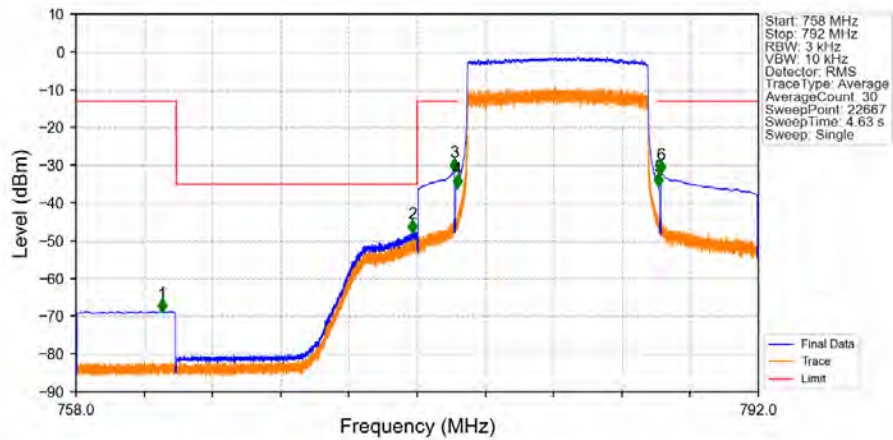
Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

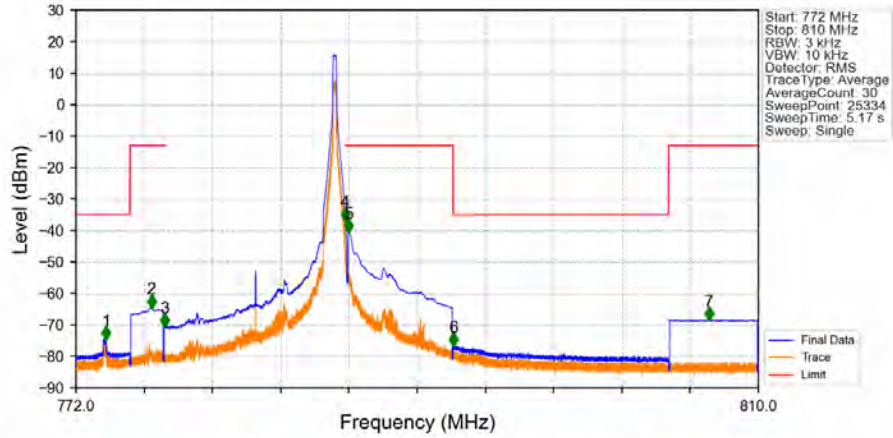


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV

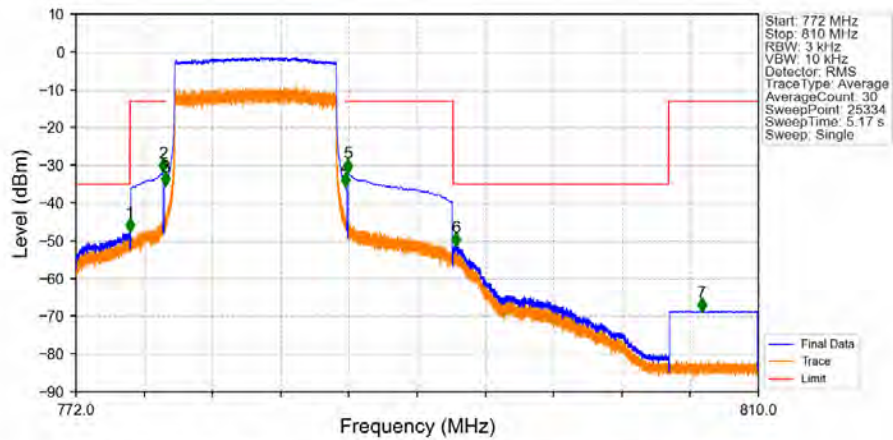


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.298	-68.71	-13	Pass
763	775	0.00625	CHP	2	774.769	-47.73	-35	Pass
775	776.9	0.1	CHP	3	776.841	-31.46	-13	Pass
776.9	777	0.03	CHP	4	777.000	-35.72	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-35.33	-13	Pass
787.1	792	0.1	CHP	6	787.150	-31.97	-13	Pass

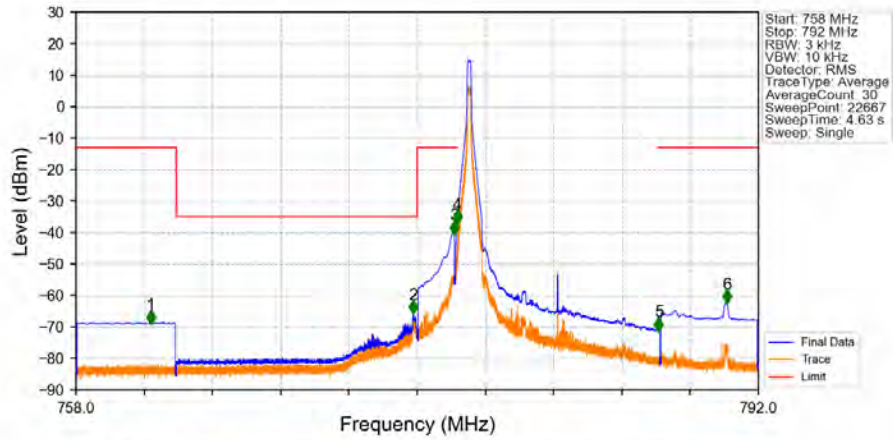
Band13 10MHz QPSK HCH 782MHz RB 1 49 NTV



Band13 10MHz QPSK HCH 782MHz RB 50_0 NTV

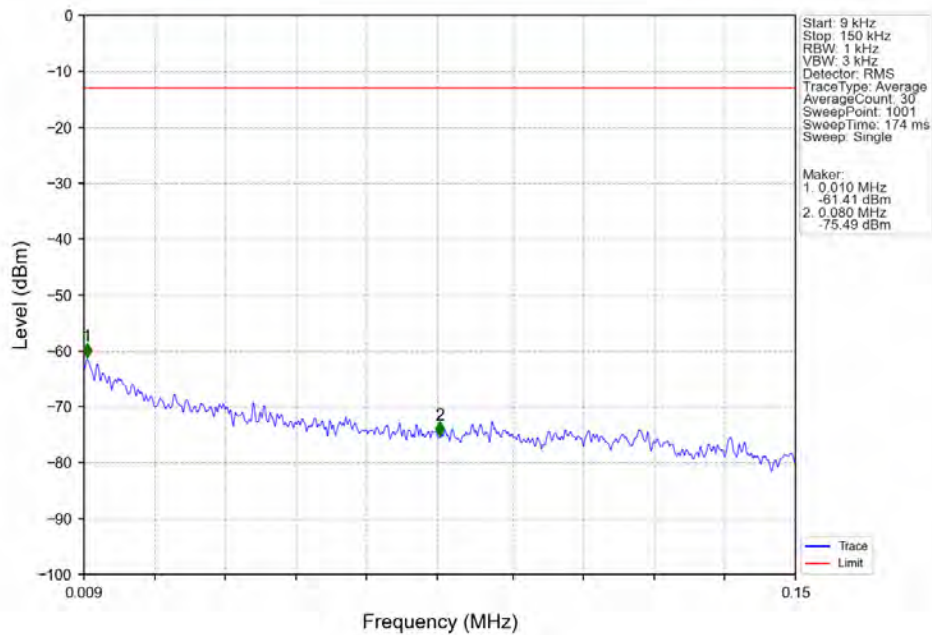


Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN

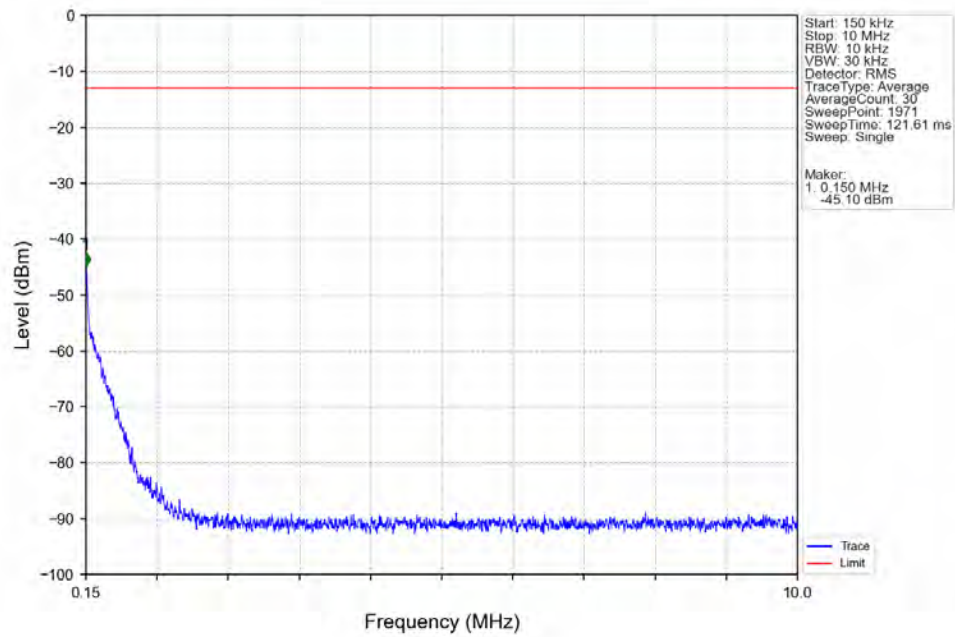


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.720	-68.70	-13	Pass
763	775	0.00625	CHP	2	774.788	-65.56	-35	Pass
775	776.9	0.1	CHP	3	776.844	-40.25	-13	Pass
776.9	777	0.03	CHP	4	777.000	-36.78	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.033	-71.02	-13	Pass
787.1	792	0.1	CHP	6	790.428	-62.16	-13	Pass

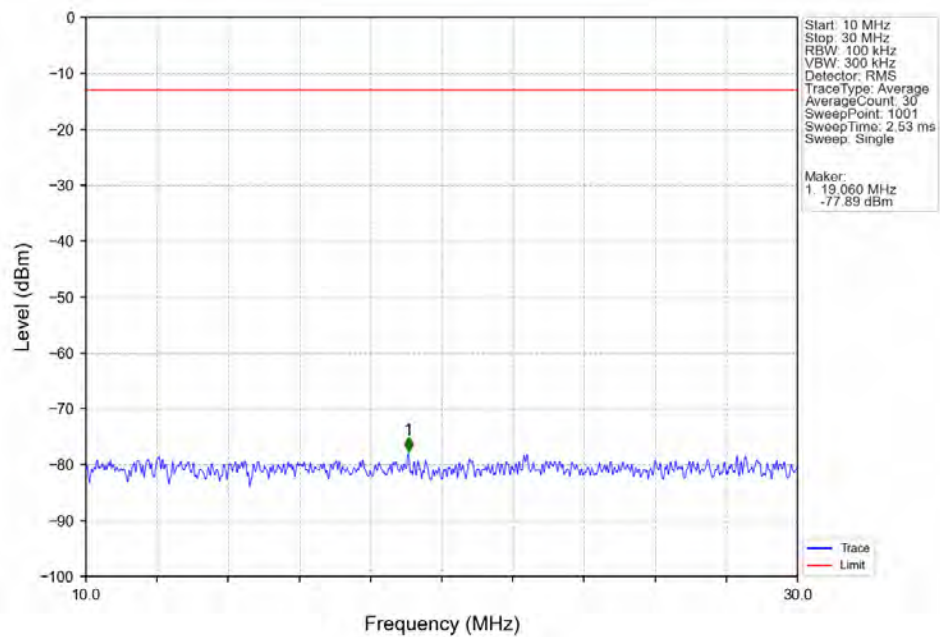
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN



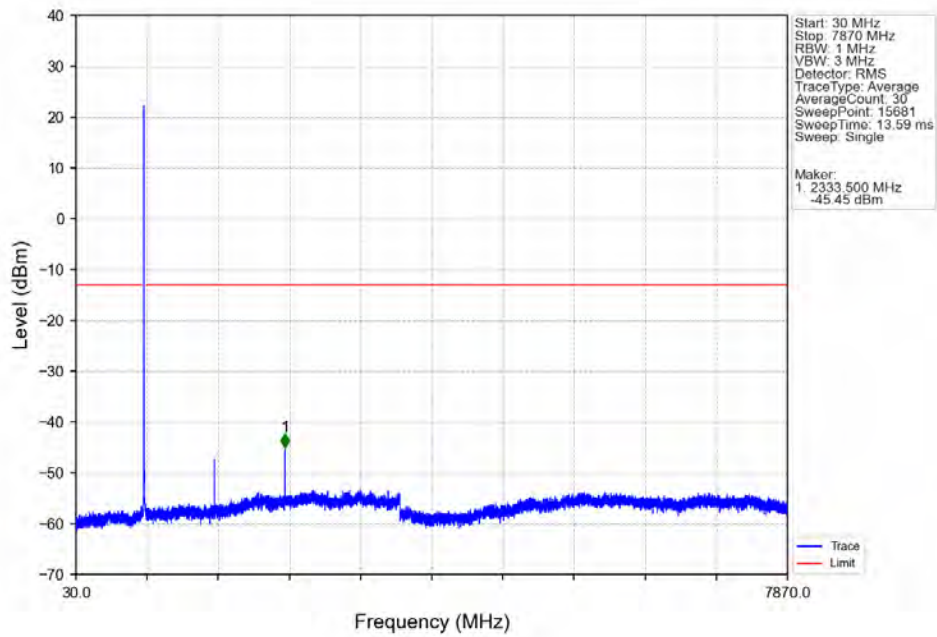
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



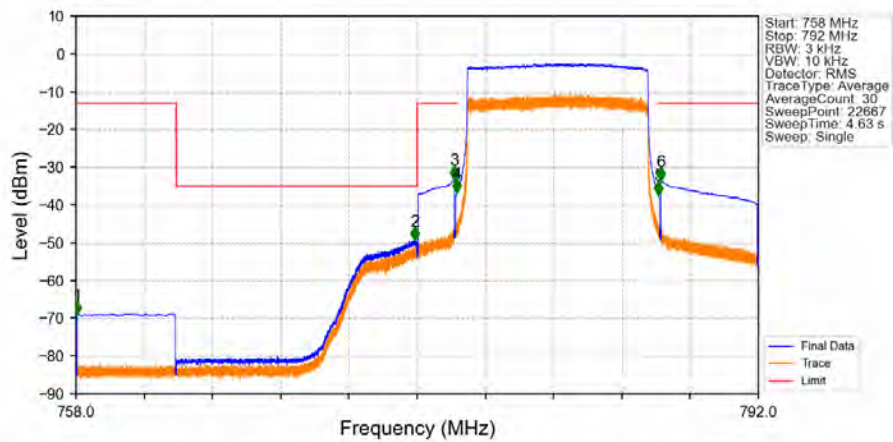
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV

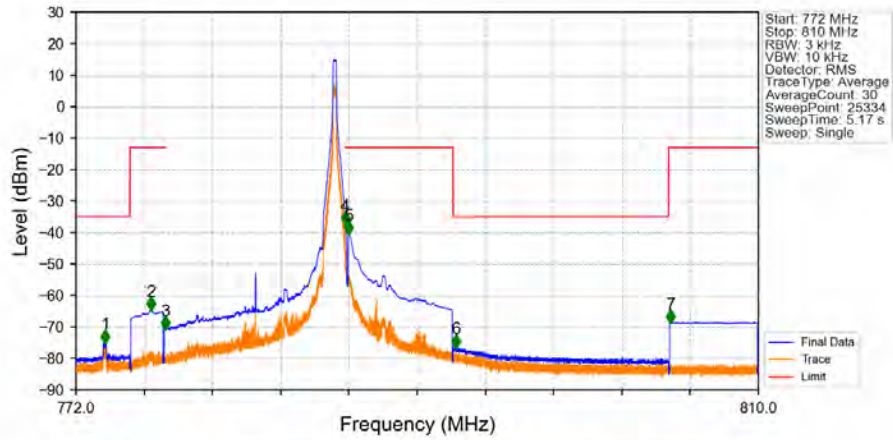


Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV

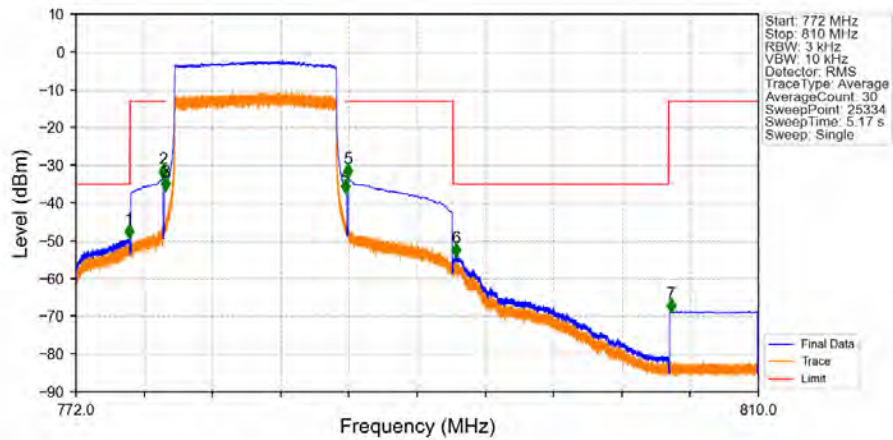


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.056	-68.80	-13	Pass
763	775	0.00625	CHP	2	774.883	-49.14	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.95	-13	Pass
776.9	777	0.03	CHP	4	776.983	-36.49	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.002	-37.01	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.26	-13	Pass

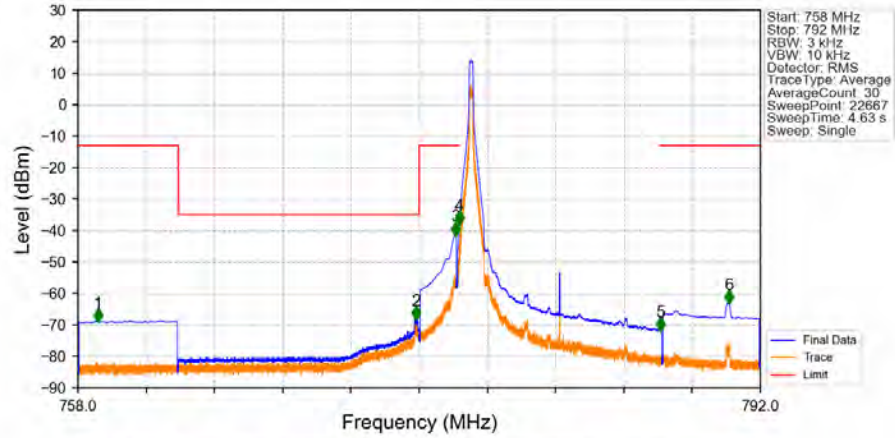
Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV

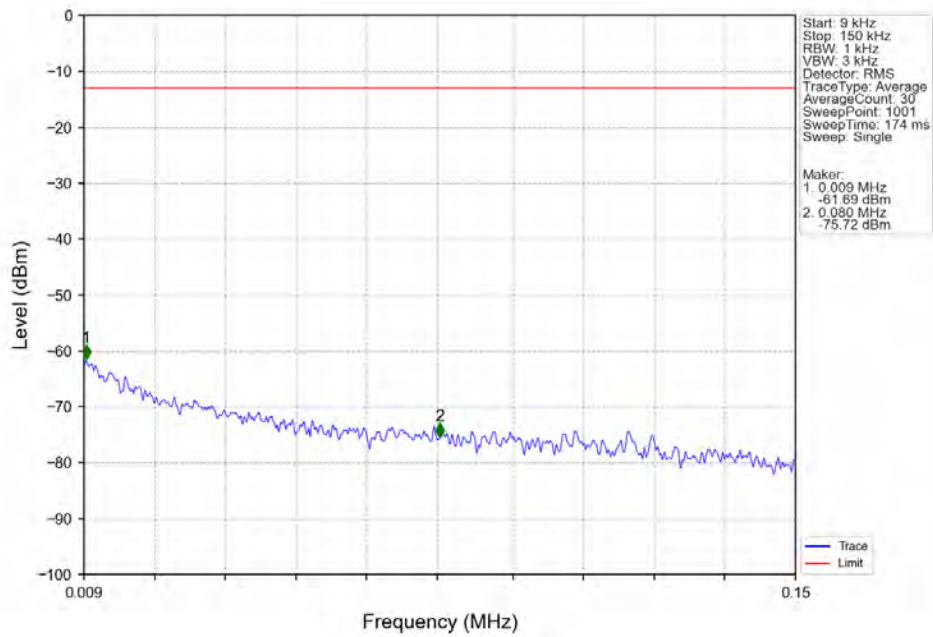


Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV

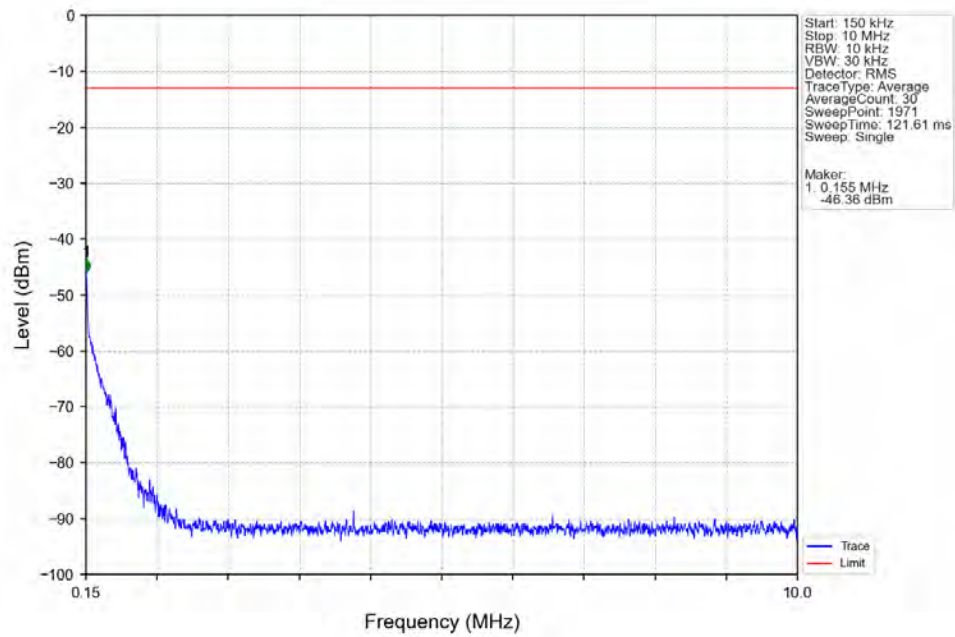


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.993	-68.83	-13	Pass
763	775	0.00625	CHP	2	774.836	-68.03	-35	Pass
775	776.9	0.1	CHP	3	776.802	-41.29	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.85	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.032	-71.59	-13	Pass
787.1	792	0.1	CHP	6	790.422	-62.97	-13	Pass

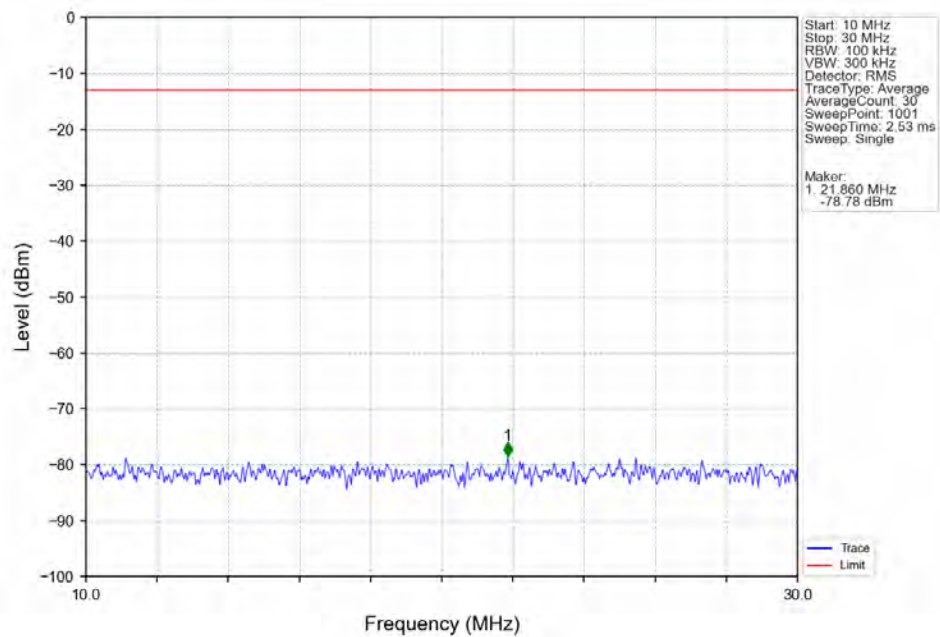
Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV



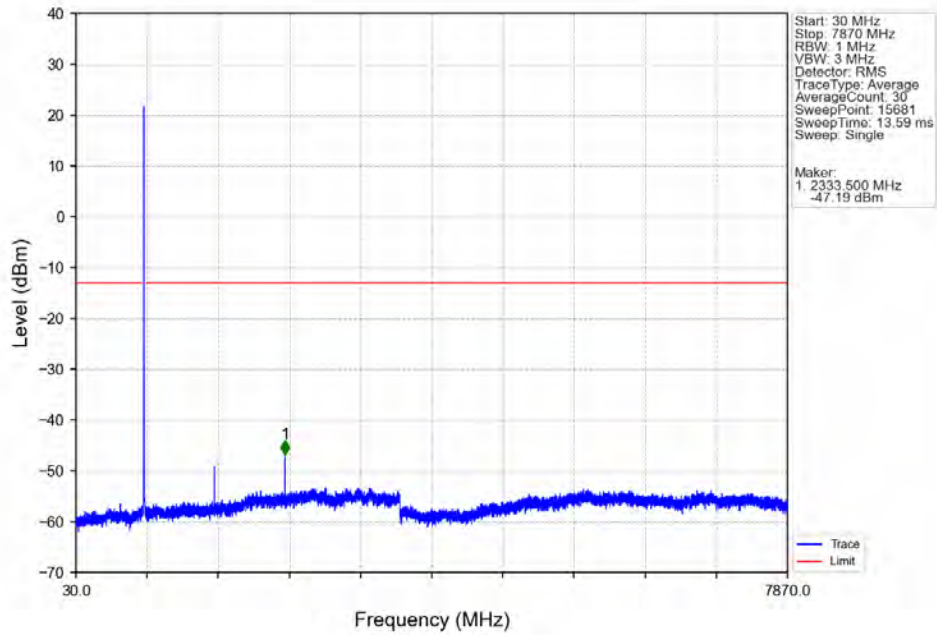
Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV



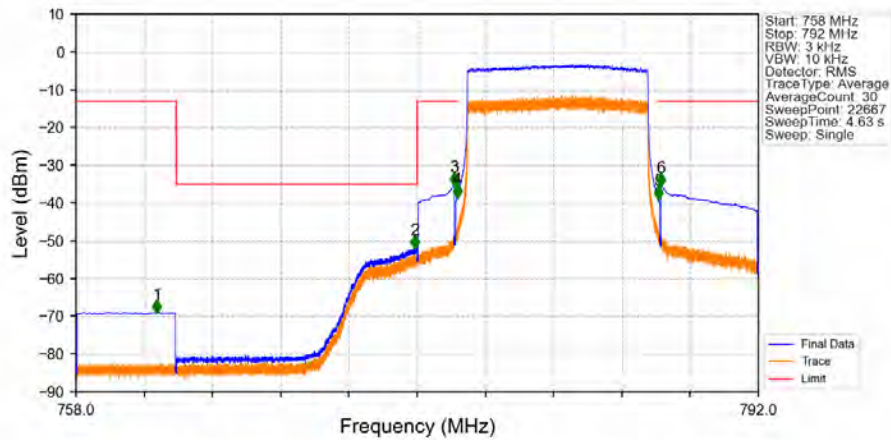
Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV



Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTNV

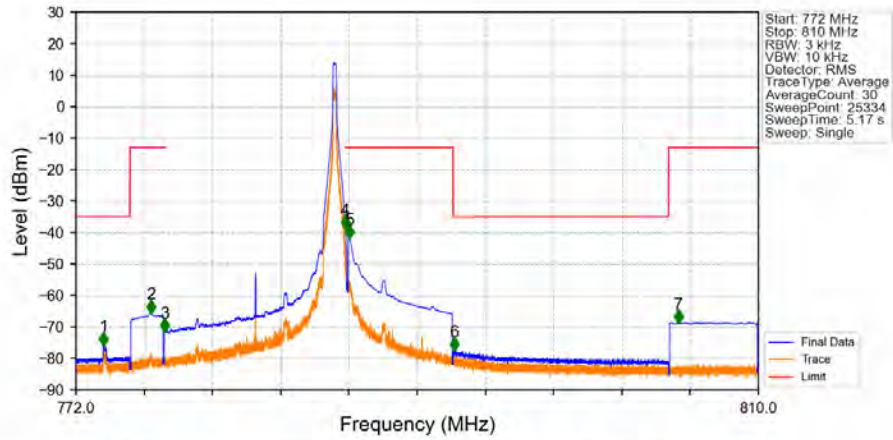


Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



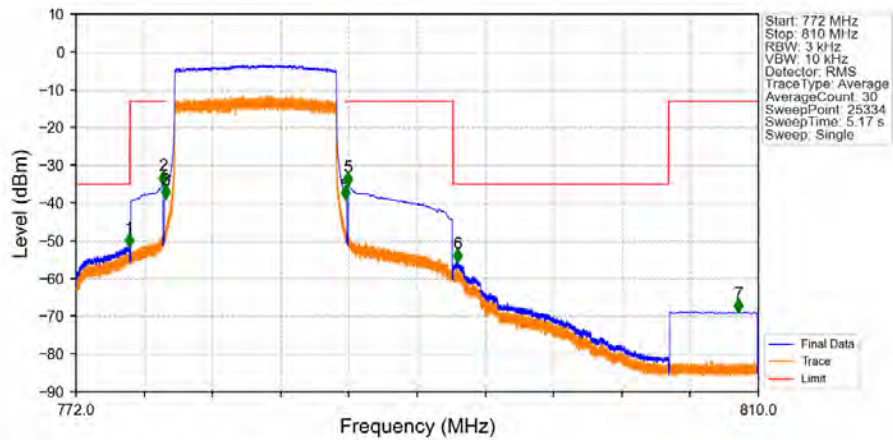
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.034	-68.94	-13	Pass
763	775	0.00625	CHP	2	774.898	-51.81	-35	Pass
775	776.9	0.1	CHP	3	776.847	-35.19	-13	Pass
776.9	777	0.03	CHP	4	777.000	-38.47	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-38.85	-13	Pass
787.1	792	0.1	CHP	6	787.150	-35.44	-13	Pass

Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.542	-75.65	-35	Pass
775	776.9	0.1	CHP	2	776.181	-65.38	-13	Pass
776.9	777	0.03	CHP	3	776.955	-71.39	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-38.62	-13	Pass
787.1	793	0.1	CHP	5	787.209	-41.76	-13	Pass
793	805	0.00625	CHP	6	793.054	-77.28	-35	Pass
805	810	0.1	CHP	7	805.536	-68.65	-13	Pass

Band13_10MHz_64QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.957	-51.47	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.85	-13	Pass
776.9	777	0.03	CHP	3	777.000	-38.55	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-38.81	-13	Pass
787.1	793	0.1	CHP	5	787.150	-35.21	-13	Pass
793	805	0.00625	CHP	6	793.228	-55.50	-35	Pass
805	810	0.1	CHP	7	808.897	-68.81	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 13 ANT0-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1555.0	-62.28	-13	-49.28	-65.42	2.6	5.74	Horizontal	Pass
2332.5	-69.5	-13	-56.5	-71.96	2.96	5.42	Horizontal	Pass
3110.0	-67.6	-13	-54.6	-71.6	3.2	7.2	Horizontal	Pass
1555.0	-68.91	-13	-55.91	-72.05	2.6	5.74	Vertical	Pass
2332.5	-70.02	-13	-57.02	-72.48	2.96	5.42	Vertical	Pass
3110.0	-66.36	-13	-53.36	-70.36	3.2	7.2	Vertical	Pass

LTE Band 13 ANT0-Low channel, Modulation: QPSK, Bandwidth5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-61.68	-13	-48.68	-64.82	2.6	5.74	Horizontal	Pass
2331.75	-69.94	-13	-56.94	-72.4	2.96	5.42	Horizontal	Pass
3109.0	-67.41	-13	-54.41	-71.4	3.2	7.19	Horizontal	Pass
1554.5	-68.82	-13	-55.82	-71.96	2.6	5.74	Vertical	Pass
2331.75	-69.84	-13	-56.84	-72.3	2.96	5.42	Vertical	Pass
3109.0	-67.04	-13	-54.04	-71.03	3.2	7.19	Vertical	Pass

LTE Band 13 ANT0- Middle channel, Modulation: QPSK, Bandwidth5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-71.1	-40	-31.1	-74.23	2.6	5.73	Horizontal	Pass
2339.25	-70.03	-13	-57.03	-72.5	2.96	5.43	Horizontal	Pass
3119.0	-67.7	-13	-54.7	-71.71	3.21	7.22	Horizontal	Pass
1559.5	-71.47	-40	-31.47	-74.6	2.6	5.73	Vertical	Pass
2339.25	-70.12	-13	-57.12	-72.59	2.96	5.43	Vertical	Pass
3119.0	-67.59	-13	-54.59	-71.6	3.21	7.22	Vertical	Pass

LTE Band 13 ANT0- High channel, , Modulation: QPSK, Bandwidth5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-68.98	-40	-28.98	-72.1	2.6	5.72	Horizontal	Pass
2346.75	-70.17	-13	-57.17	-72.65	2.97	5.45	Horizontal	Pass
3129.0	-67.87	-13	-54.87	-71.9	3.21	7.24	Horizontal	Pass
1564.5	-70.73	-40	-30.73	-73.85	2.6	5.72	Vertical	Pass
2346.75	-69.71	-13	-56.71	-72.19	2.97	5.45	Vertical	Pass
3129.0	-67.55	-13	-54.55	-71.58	3.21	7.24	Vertical	Pass