1. Transmitter Conducted Power Output

1.1 Test Result

1.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	23.17	<=50	Pass
			2	23.26	<=50	Pass
			5	23.05	<=50	Pass
		3	0	23.18	<=50	Pass
			2	23.10	<=50	Pass
			3	23.06	<=50	Pass
		6	0	22.01	<=50	Pass
	819	1	0	23.23	<=50	Pass
			2	23.14	<=50	Pass
			5	23.11	<=50	Pass
		3	0	23.13	<=50	Pass
			2	23.19	<=50	Pass
			3	23.05	<=50	Pass
		6	0	22.06	<=50	Pass
	823.3	1	0	22.83	<=50	Pass
			2	23.09	<=50	Pass
			5	23.24	<=50	Pass
		3	0	23.03	<=50	Pass
			2	23.04	<=50	Pass
			3	22.51	<=50	Pass
		6	0	22.15	<=50	Pass
16QAM	814.7	1	0	21.63	<=50	Pass
			2	21.91	<=50	Pass
			5	21.60	<=50	Pass
		3	0	22.14	<=50	Pass
			2	22.14	<=50	Pass
			3	22.14	<=50	Pass
		6	0	21.09	<=50	Pass
	819	1	0	21.92	<=50	Pass
			2	21.91	<=50	Pass
			5	21.62	<=50	Pass
		3	0	22.06	<=50	Pass
			2	22.12	<=50	Pass
			3	22.07	<=50	Pass
		6	0	20.95	<=50	Pass
	823.3	1	0	22.20	<=50	Pass
			2	21.84	<=50	Pass
			5	21.88	<=50	Pass
		3	0	22.16	<=50	Pass
			2	22.11	<=50	Pass
			3	22.02	<=50	Pass
		6	0	20.97	<=50	Pass
64QAM	814.7	1	0	21.63	<=50	Pass
			2	21.68	<=50	Pass
			5	21.65	<=50	Pass
		3	0	21.86	<=50	Pass
			2	21.91	<=50	Pass
			3	21.78	<=50	Pass
		6	0	21.05	<=50	Pass

	819	1	0	22.00	<=50	Pass
			2	21.76	<=50	Pass
			5	21.77	<=50	Pass
		3	0	21.98	<=50	Pass
			2	21.89	<=50	Pass
			3	21.98	<=50	Pass
		6	0	21.08	<=50	Pass
	823.3	1	0	21.78	<=50	Pass
			2	21.78	<=50	Pass
			5	21.89	<=50	Pass
		3	0	22.08	<=50	Pass
			2	22.22	<=50	Pass
			3	21.95	<=50	Pass
		6	0	20.98	<=50	Pass

1.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	23.26	<=50	Pass
			7	22.97	<=50	Pass
			14	22.97	<=50	Pass
		8	0	22.12	<=50	Pass
			4	22.01	<=50	Pass
			7	21.96	<=50	Pass
		15	0	22.07	<=50	Pass
	819	1	0	23.42	<=50	Pass
			7	23.18	<=50	Pass
			14	23.25	<=50	Pass
		8	0	22.13	<=50	Pass
			4	22.15	<=50	Pass
			7	22.10	<=50	Pass
		15	0	22.05	<=50	Pass
	822.5	1	0	23.23	<=50	Pass
			7	23.02	<=50	Pass
			14	23.30	<=50	Pass
		8	0	22.06	<=50	Pass
			4	21.96	<=50	Pass
			7	22.00	<=50	Pass
		15	0	22.06	<=50	Pass
16QAM	815.5	1	0	22.07	<=50	Pass
			7	21.41	<=50	Pass
			14	21.86	<=50	Pass
		8	0	20.88	<=50	Pass
			4	20.69	<=50	Pass
			7	20.66	<=50	Pass
		15	0	20.98	<=50	Pass
	819	1	0	21.99	<=50	Pass
			7	21.80	<=50	Pass
			14	22.00	<=50	Pass
		8	0	20.91	<=50	Pass
			4	21.03	<=50	Pass
			7	21.07	<=50	Pass
		15	0	21.08	<=50	Pass
	822.5	1	0	21.82	<=50	Pass
			7	21.47	<=50	Pass

			14	21.92	<=50	Pass
		8	0	20.76	<=50	Pass
			4	21.14	<=50	Pass
			7	20.87	<=50	Pass
		15	0	21.10	<=50	Pass
64QAM	815.5	1	0	21.79	<=50	Pass
			7	21.95	<=50	Pass
			14	21.70	<=50	Pass
		8	0	20.03	<=50	Pass
			4	19.97	<=50	Pass
			7	19.84	<=50	Pass
		15	0	20.01	<=50	Pass
	819	1	0	20.79	<=50	Pass
			7	20.93	<=50	Pass
			14	20.72	<=50	Pass
		8	0	19.98	<=50	Pass
			4	20.01	<=50	Pass
			7	20.08	<=50	Pass
		15	0	20.08	<=50	Pass
	822.5	1	0	21.08	<=50	Pass
			7	20.84	<=50	Pass
			14	20.90	<=50	Pass
		8	0	20.14	<=50	Pass
			4	20.12	<=50	Pass
			7	19.94	<=50	Pass
		15	0	20.02	<=50	Pass

1.1.3 B26a_5MHz

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	23.17	<=50	Pass
			13	22.98	<=50	Pass
			24	23.05	<=50	Pass
		12	0	22.06	<=50	Pass
			6	21.94	<=50	Pass
			13	21.98	<=50	Pass
		25	0	22.02	<=50	Pass
	819	1	0	23.00	<=50	Pass
			13	23.22	<=50	Pass
			24	23.02	<=50	Pass
		12	0	22.09	<=50	Pass
			6	22.11	<=50	Pass
			13	22.04	<=50	Pass
		25	0	22.08	<=50	Pass
	821.5	1	0	23.06	<=50	Pass
			13	23.28	<=50	Pass
			24	23.10	<=50	Pass
		12	0	22.13	<=50	Pass
			6	22.07	<=50	Pass
			13	22.03	<=50	Pass
		25	0	21.97	<=50	Pass
16QAM	816.5	1	0	22.23	<=50	Pass
			13	21.66	<=50	Pass
			24	21.18	<=50	Pass
		12	0	21.10	<=50	Pass

			6	20.78	<=50	Pass
			13	20.99	<=50	Pass
		25	0	20.91	<=50	Pass
	819	1	0	21.65	<=50	Pass
			13	22.00	<=50	Pass
			24	21.29	<=50	Pass
		12	0	21.04	<=50	Pass
			6	21.03	<=50	Pass
			13	20.96	<=50	Pass
		25	0	21.00	<=50	Pass
	821.5	1	0	21.63	<=50	Pass
			13	21.81	<=50	Pass
			24	21.58	<=50	Pass
		12	0	20.94	<=50	Pass
			6	21.10	<=50	Pass
			13	20.95	<=50	Pass
		25	0	21.01	<=50	Pass
64QAM	816.5	1	0	20.70	<=50	Pass
			13	20.75	<=50	Pass
			24	20.63	<=50	Pass
		12	0	19.95	<=50	Pass
			6	19.74	<=50	Pass
			13	19.91	<=50	Pass
		25	0	19.94	<=50	Pass
	819	1	0	20.66	<=50	Pass
			13	20.91	<=50	Pass
			24	20.58	<=50	Pass
		12	0	19.99	<=50	Pass
			6	19.91	<=50	Pass
			13	19.92	<=50	Pass
		25	0	19.94	<=50	Pass
	821.5	1	0	20.75	<=50	Pass
			13	21.02	<=50	Pass
			24	21.17	<=50	Pass
		12	0	20.21	<=50	Pass
			6	20.01	<=50	Pass
			13	20.02	<=50	Pass
		25	0	19.95	<=50	Pass

1.1.4 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	23.38	<=50	Pass
			25	23.35	<=50	Pass
			49	23.16	<=50	Pass
		25	0	22.15	<=50	Pass
			13	22.14	<=50	Pass
			25	22.13	<=50	Pass
		50	0	22.18	<=50	Pass
16QAM	819	1	0	21.88	<=50	Pass
			25	21.83	<=50	Pass
			49	21.68	<=50	Pass
		25	0	21.22	<=50	Pass
			13	21.22	<=50	Pass
			25	21.18	<=50	Pass

		50	0	21.12	<=50	Pass
64QAM	819	1	0	21.24	<=50	Pass
			25	20.82	<=50	Pass
			49	20.94	<=50	Pass
		25	0	20.03	<=50	Pass
			13	20.15	<=50	Pass
			25	20.10	<=50	Pass
		50	0	20.09	<=50	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	814.7	6	0	20	20.4	-12.400	-0.0152	-2.5 to 2.5	Pass
					24	-12.600	-0.0155	-2.5 to 2.5	Pass
					27.6	-11.400	-0.0140	-2.5 to 2.5	Pass
				-30	24	-11.600	-0.0142	-2.5 to 2.5	Pass
				-20	24	-8.500	-0.0104	-2.5 to 2.5	Pass
				-10	24	-9.400	-0.0115	-2.5 to 2.5	Pass
				0	24	-8.600	-0.0106	-2.5 to 2.5	Pass
				10	24	-7.700	-0.0095	-2.5 to 2.5	Pass
				30	24	-6.300	-0.0077	-2.5 to 2.5	Pass
				40	24	-9.500	-0.0117	-2.5 to 2.5	Pass
				50	24	-7.900	-0.0097	-2.5 to 2.5	Pass
	819	6	0	20	20.4	-7.800	-0.0095	-2.5 to 2.5	Pass
					24	-4.600	-0.0056	-2.5 to 2.5	Pass
					27.6	-6.600	-0.0081	-2.5 to 2.5	Pass
				-30	24	-2.500	-0.0031	-2.5 to 2.5	Pass
				-20	24	-3.600	-0.0044	-2.5 to 2.5	Pass
				-10	24	-3.200	-0.0039	-2.5 to 2.5	Pass
				0	24	-5.100	-0.0062	-2.5 to 2.5	Pass
				10	24	-4.800	-0.0059	-2.5 to 2.5	Pass
				30	24	-3.300	-0.0040	-2.5 to 2.5	Pass
				40	24	-2.500	-0.0031	-2.5 to 2.5	Pass
				50	24	-4.400	-0.0054	-2.5 to 2.5	Pass
	823.3	6	0	20	20.4	-11.500	-0.0140	-2.5 to 2.5	Pass
					24	-9.700	-0.0118	-2.5 to 2.5	Pass
					27.6	-12.900	-0.0157	-2.5 to 2.5	Pass
				-30	24	-10.300	-0.0125	-2.5 to 2.5	Pass
				-20	24	-9.400	-0.0114	-2.5 to 2.5	Pass
				-10	24	-10.800	-0.0131	-2.5 to 2.5	Pass
				0	24	-9.000	-0.0109	-2.5 to 2.5	Pass
				10	24	-10.900	-0.0132	-2.5 to 2.5	Pass
				30	24	-6.700	-0.0081	-2.5 to 2.5	Pass
				40	24	-8.700	-0.0106	-2.5 to 2.5	Pass
				50	24	-8.200	-0.0100	-2.5 to 2.5	Pass

2.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	815.5	15	0	20	20.4	2.400	0.0029	-2.5 to 2.5	Pass
					24	3.400	0.0042	-2.5 to 2.5	Pass
					27.6	2.700	0.0033	-2.5 to 2.5	Pass
				-30	24	1.800	0.0022	-2.5 to 2.5	Pass
				-20	24	1.700	0.0021	-2.5 to 2.5	Pass
				-10	24	2.100	0.0026	-2.5 to 2.5	Pass

				0	24	4.000	0.0049	-2.5 to 2.5	Pass
				10	24	3.400	0.0042	-2.5 to 2.5	Pass
				30	24	1.100	0.0013	-2.5 to 2.5	Pass
				40	24	2.200	0.0027	-2.5 to 2.5	Pass
				50	24	2.700	0.0033	-2.5 to 2.5	Pass
	819	15	0	20	20.4	1.000	0.0012	-2.5 to 2.5	Pass
					24	1.900	0.0023	-2.5 to 2.5	Pass
					27.6	2.200	0.0027	-2.5 to 2.5	Pass
				-30	24	2.200	0.0027	-2.5 to 2.5	Pass
				-20	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				-10	24	-0.600	-0.0007	-2.5 to 2.5	Pass
				0	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				10	24	-0.900	-0.0011	-2.5 to 2.5	Pass
				30	24	1.200	0.0015	-2.5 to 2.5	Pass
				40	24	2.300	0.0028	-2.5 to 2.5	Pass
				50	24	3.300	0.0040	-2.5 to 2.5	Pass
	822.5	15	0	20	20.4	2.700	0.0033	-2.5 to 2.5	Pass
					24	1.400	0.0017	-2.5 to 2.5	Pass
					27.6	2.500	0.0030	-2.5 to 2.5	Pass
				-30	24	0.200	0.0002	-2.5 to 2.5	Pass
				-20	24	1.200	0.0015	-2.5 to 2.5	Pass
				-10	24	1.900	0.0023	-2.5 to 2.5	Pass
				0	24	1.500	0.0018	-2.5 to 2.5	Pass
				10	24	0.800	0.0010	-2.5 to 2.5	Pass
				30	24	0.300	0.0004	-2.5 to 2.5	Pass
				40	24	1.100	0.0013	-2.5 to 2.5	Pass
				50	24	2.300	0.0028	-2.5 to 2.5	Pass

2.1.3 B26a_5MHz

Band: 26a / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	816.5	25	0	20	20.4	0.600	0.0007	-2.5 to 2.5	Pass
					24	1.900	0.0023	-2.5 to 2.5	Pass
					27.6	-0.900	-0.0011	-2.5 to 2.5	Pass
				-30	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				-20	24	-0.100	-0.0001	-2.5 to 2.5	Pass
				-10	24	-0.400	-0.0005	-2.5 to 2.5	Pass
				0	24	-2.000	-0.0024	-2.5 to 2.5	Pass
				10	24	-0.700	-0.0009	-2.5 to 2.5	Pass
				30	24	0.300	0.0004	-2.5 to 2.5	Pass
				40	24	1.300	0.0016	-2.5 to 2.5	Pass
				50	24	-0.200	-0.0002	-2.5 to 2.5	Pass
	819	25	0	20	20.4	0.200	0.0002	-2.5 to 2.5	Pass
					24	1.200	0.0015	-2.5 to 2.5	Pass
					27.6	-0.700	-0.0009	-2.5 to 2.5	Pass
				-30	24	-1.900	-0.0023	-2.5 to 2.5	Pass
				-20	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				-10	24	-0.700	-0.0009	-2.5 to 2.5	Pass
				0	24	0.600	0.0007	-2.5 to 2.5	Pass
				10	24	-0.900	-0.0011	-2.5 to 2.5	Pass
				30	24	-1.700	-0.0021	-2.5 to 2.5	Pass
				40	24	-0.500	-0.0006	-2.5 to 2.5	Pass
				50	24	1.200	0.0015	-2.5 to 2.5	Pass
	821.5	25	0	20	20.4	2.100	0.0026	-2.5 to 2.5	Pass
					24	0.500	0.0006	-2.5 to 2.5	Pass

					27.6	0.000	0.0000	-2.5 to 2.5	Pass
				-30	24	2.400	0.0029	-2.5 to 2.5	Pass
				-20	24	0.200	0.0002	-2.5 to 2.5	Pass
				-10	24	2.400	0.0029	-2.5 to 2.5	Pass
				0	24	2.900	0.0035	-2.5 to 2.5	Pass
				10	24	2.000	0.0024	-2.5 to 2.5	Pass
				30	24	2.500	0.0030	-2.5 to 2.5	Pass
				40	24	3.200	0.0039	-2.5 to 2.5	Pass
				50	24	1.100	0.0013	-2.5 to 2.5	Pass

2.1.4 B26a_10MHz

Band: 26a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	819	50	0	20	20.4	-0.600	-0.0007	-2.5 to 2.5	Pass
					24	-1.000	-0.0012	-2.5 to 2.5	Pass
					27.6	-0.700	-0.0009	-2.5 to 2.5	Pass
				-30	24	-2.000	-0.0024	-2.5 to 2.5	Pass
				-20	24	-0.300	-0.0004	-2.5 to 2.5	Pass
				-10	24	-0.900	-0.0011	-2.5 to 2.5	Pass
				0	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				10	24	1.800	0.0022	-2.5 to 2.5	Pass
				30	24	-0.200	-0.0002	-2.5 to 2.5	Pass
				40	24	-0.500	-0.0006	-2.5 to 2.5	Pass
				50	24	0.300	0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band26a_OBW

Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	814.7	6	0	1.103	/	Pass
		819	6	0	1.098	/	Pass
		823.3	6	0	1.097	/	Pass
	16QAM	814.7	6	0	1.101	/	Pass
		819	6	0	1.100	/	Pass
		823.3	6	0	1.100	/	Pass
	64QAM	814.7	6	0	1.097	/	Pass
		819	6	0	1.097	/	Pass
		823.3	6	0	1.096	/	Pass
3	QPSK	815.5	15	0	2.736	/	Pass
		819	15	0	2.730	/	Pass
		822.5	15	0	2.733	/	Pass
	16QAM	815.5	15	0	2.726	/	Pass
		819	15	0	2.731	/	Pass
		822.5	15	0	2.724	/	Pass
	64QAM	815.5	15	0	2.732	/	Pass
		819	15	0	2.733	/	Pass
		822.5	15	0	2.727	/	Pass
5	QPSK	816.5	25	0	4.492	/	Pass
		819	25	0	4.499	/	Pass
		821.5	25	0	4.494	/	Pass
	16QAM	816.5	25	0	4.502	/	Pass
		819	25	0	4.496	/	Pass
		821.5	25	0	4.501	/	Pass
	64QAM	816.5	25	0	4.511	/	Pass
		819	25	0	4.508	/	Pass
		821.5	25	0	4.509	/	Pass
10	QPSK	819	50	0	9.001	/	Pass
	16QAM	819	50	0	8.960	/	Pass
	64QAM	819	50	0	8.978	/	Pass

3.1.2 Band26a_XDB

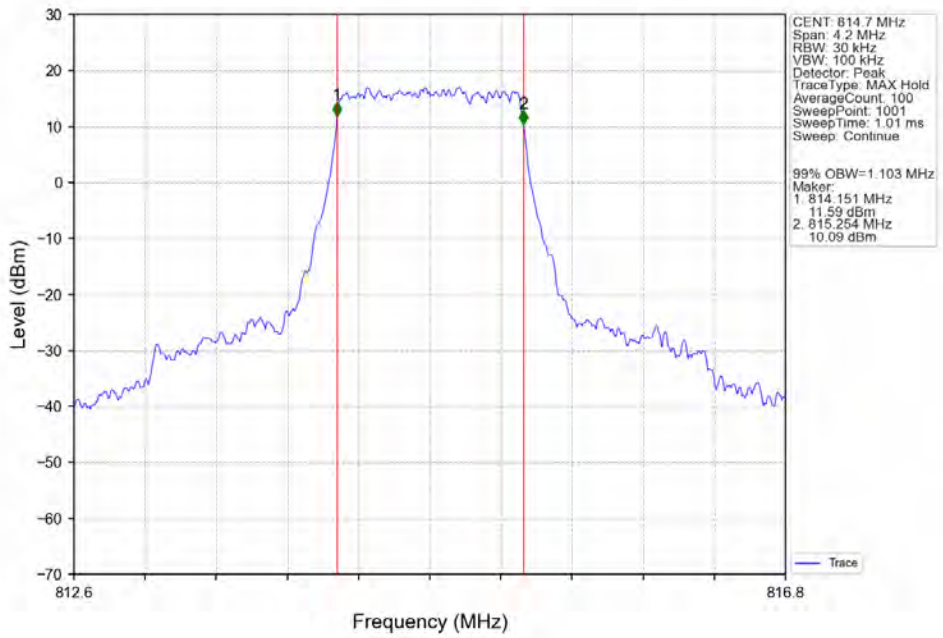
Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	814.7	6	0	1.338	/	Pass
		819	6	0	1.283	/	Pass
		823.3	6	0	1.286	/	Pass
	16QAM	814.7	6	0	1.300	/	Pass
		819	6	0	1.299	/	Pass
		823.3	6	0	1.296	/	Pass
	64QAM	814.7	6	0	1.303	/	Pass
		819	6	0	1.305	/	Pass
		823.3	6	0	1.303	/	Pass

3	QPSK	815.5	15	0	3.054	/	Pass
		819	15	0	3.059	/	Pass
		822.5	15	0	3.060	/	Pass
	16QAM	815.5	15	0	3.059	/	Pass
		819	15	0	3.068	/	Pass
		822.5	15	0	3.066	/	Pass
	64QAM	815.5	15	0	3.068	/	Pass
		819	15	0	3.071	/	Pass
		822.5	15	0	3.032	/	Pass
5	QPSK	816.5	25	0	5.028	/	Pass
		819	25	0	5.033	/	Pass
		821.5	25	0	5.034	/	Pass
	16QAM	816.5	25	0	4.997	/	Pass
		819	25	0	5.043	/	Pass
		821.5	25	0	5.023	/	Pass
	64QAM	816.5	25	0	4.996	/	Pass
		819	25	0	5.004	/	Pass
		821.5	25	0	5.008	/	Pass
10	QPSK	819	50	0	9.922	/	Pass
	16QAM	819	50	0	9.796	/	Pass
	64QAM	819	50	0	9.871	/	Pass

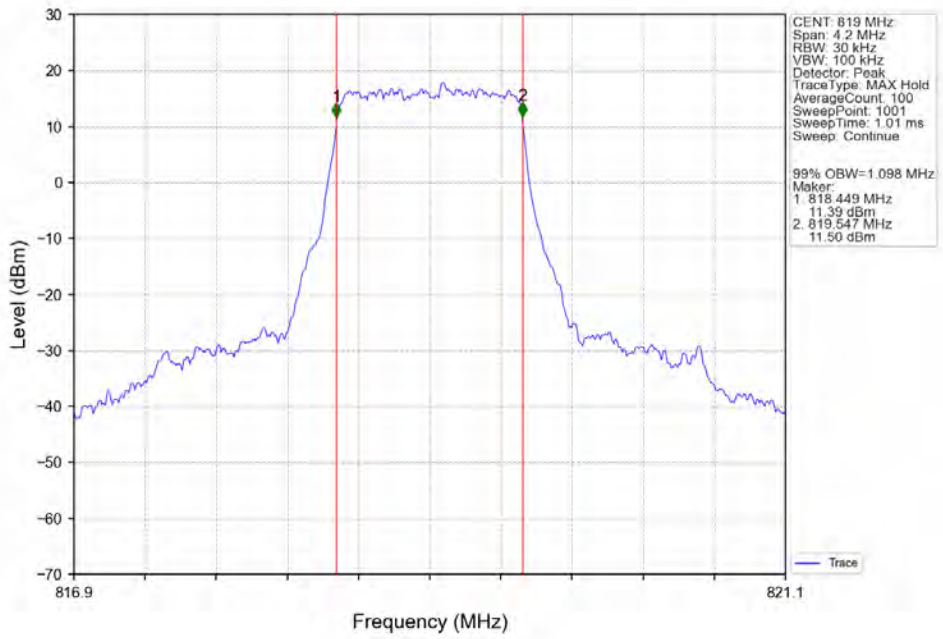
3.2 Test Graph

3.2.1 Band26a_OBW

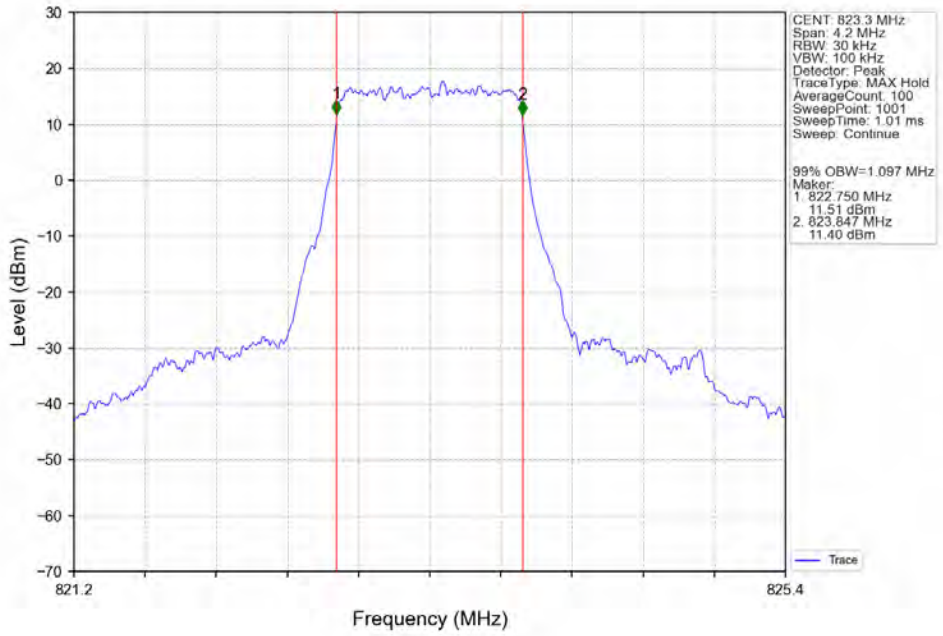
Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV



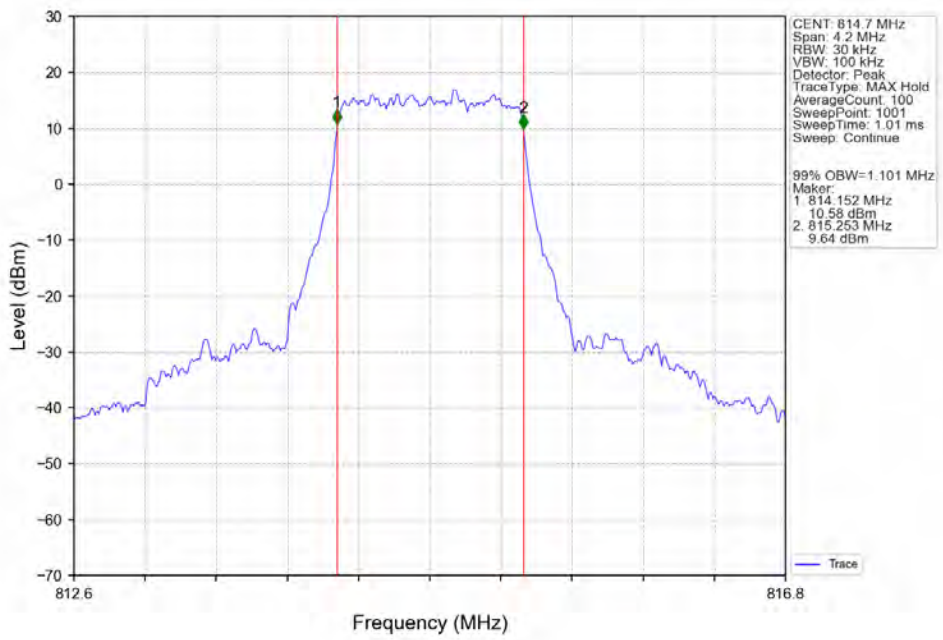
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



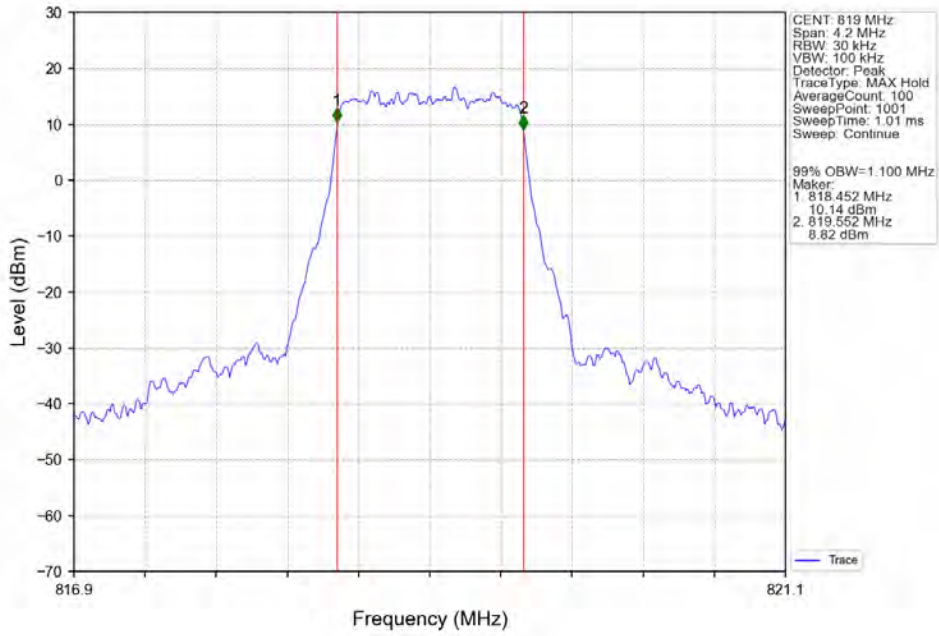
Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV



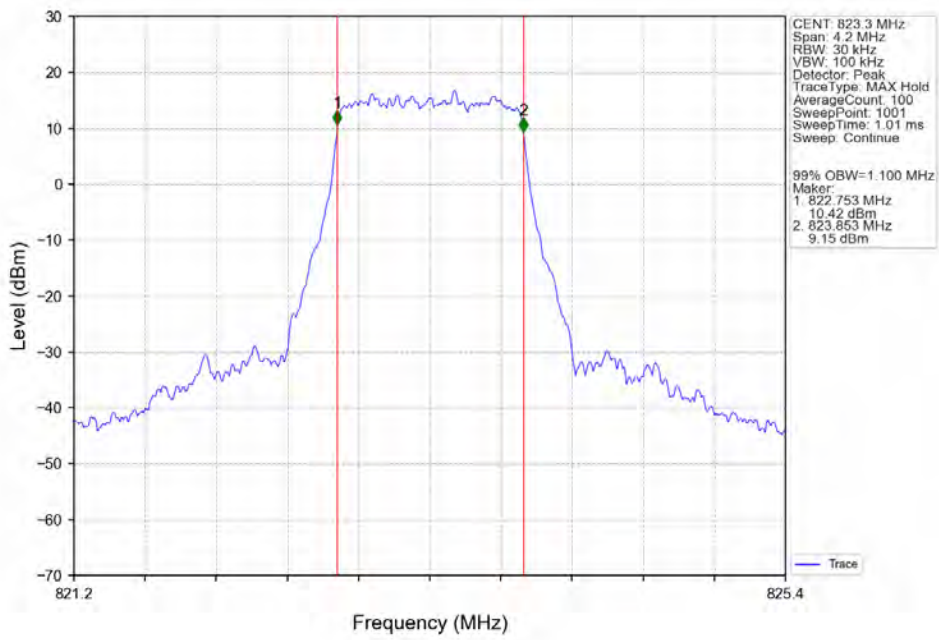
Band26a_1.4MHz_16QAM_LCH_814.7MHz_RB_6_0_NTNV



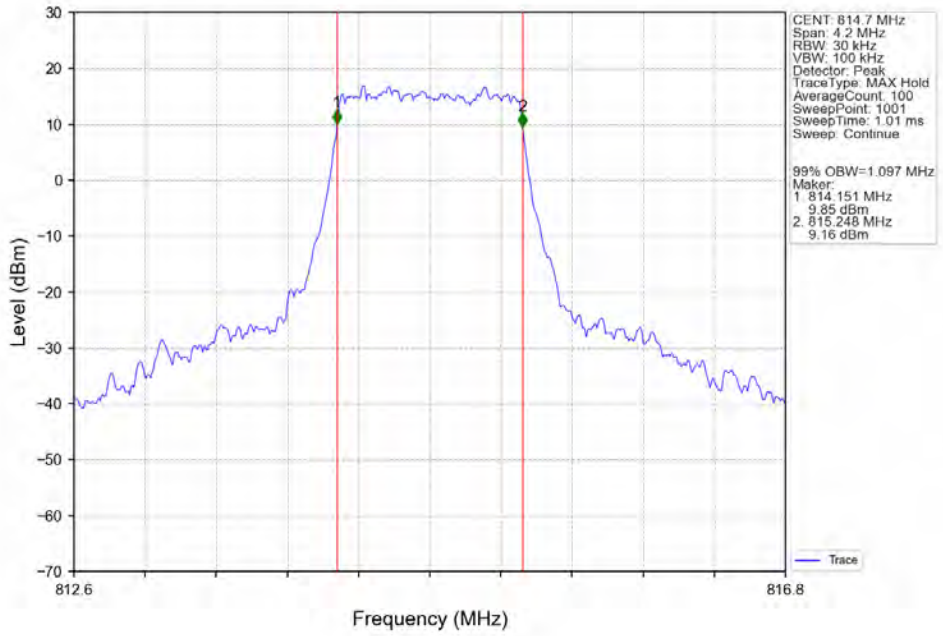
Band26a_1.4MHz_16QAM_MCH_819MHz_RB_6_0_NTNV



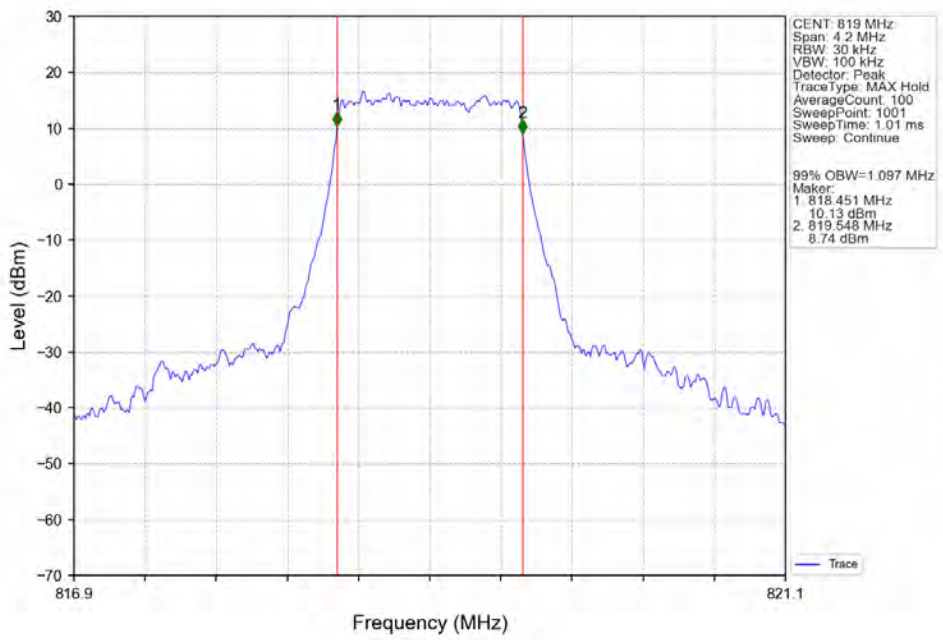
Band26a_1.4MHz_16QAM_HCH_823.3MHz_RB_6_0_NTNV



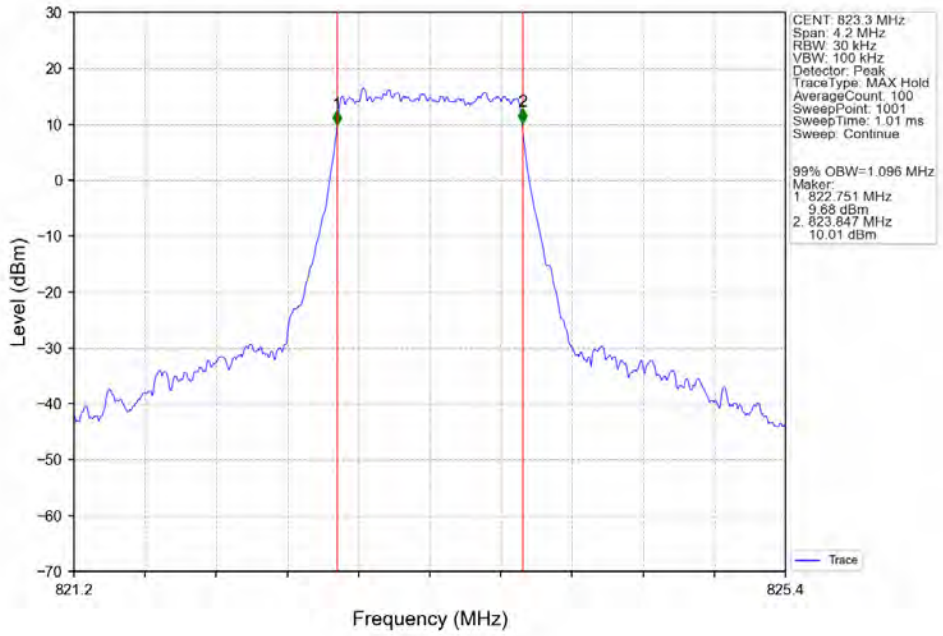
Band26a_1.4MHz_64QAM_LCH_814.7MHz_RB_6_0_NTNV



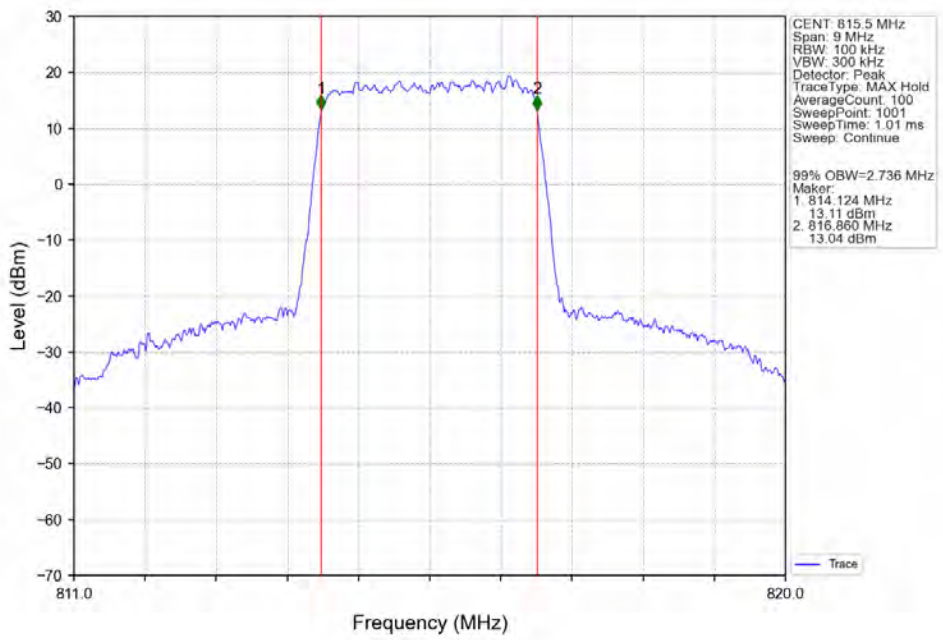
Band26a_1.4MHz_64QAM_MCH_819MHz_RB_6_0_NTNV



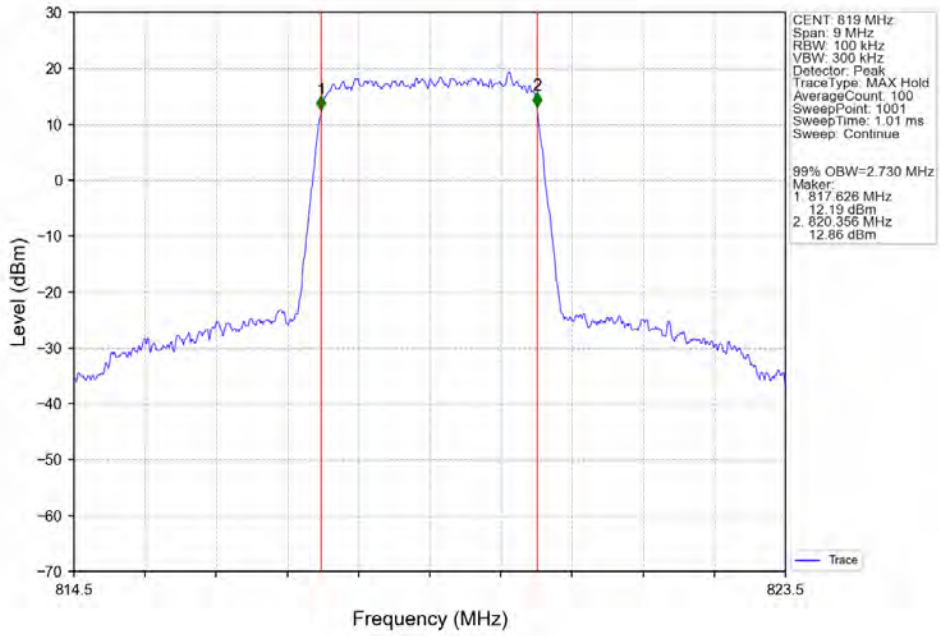
Band26a_1.4MHz_64QAM_HCH_823.3MHz_RB_6_0_NTNV



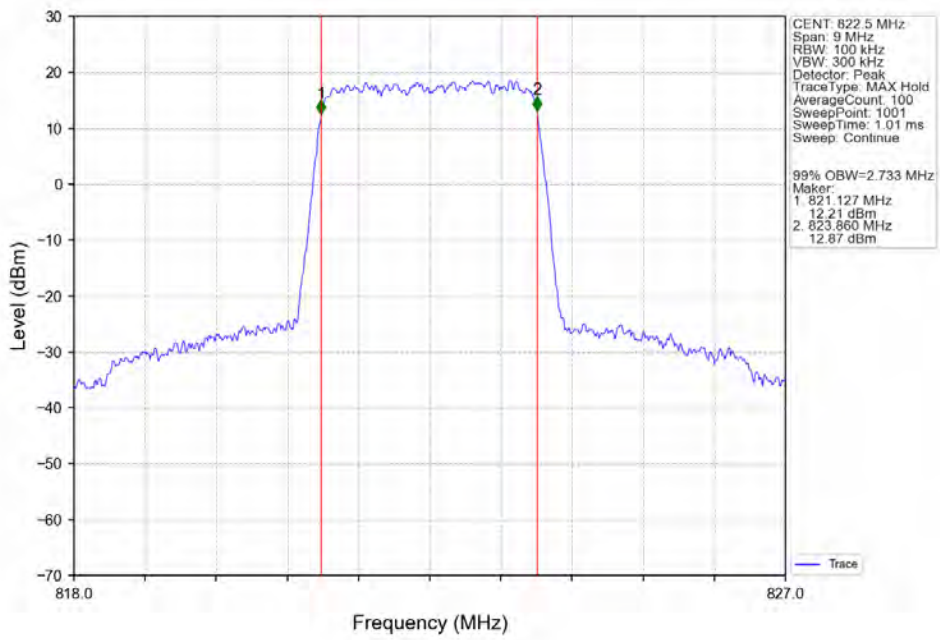
Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV



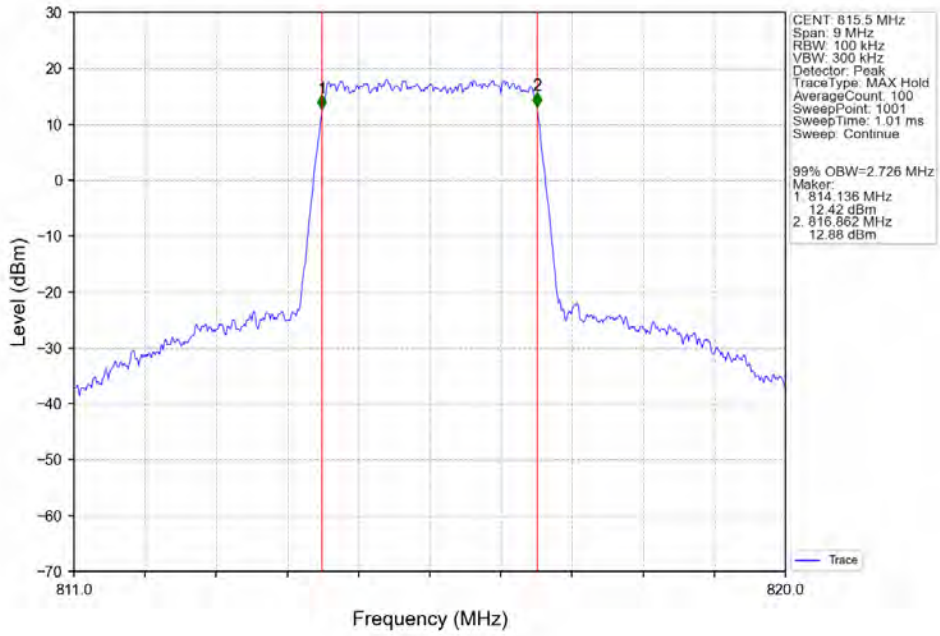
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



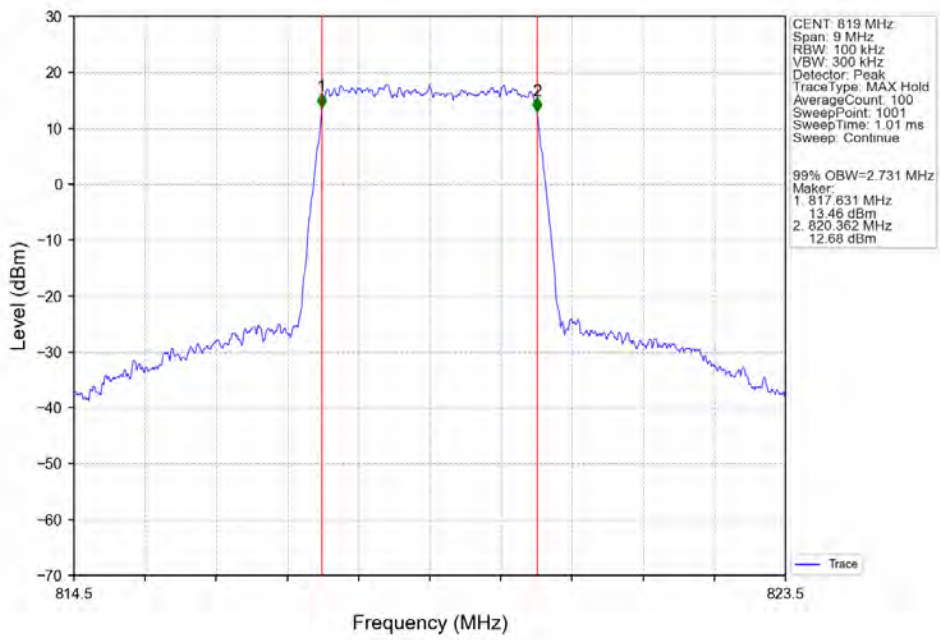
Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



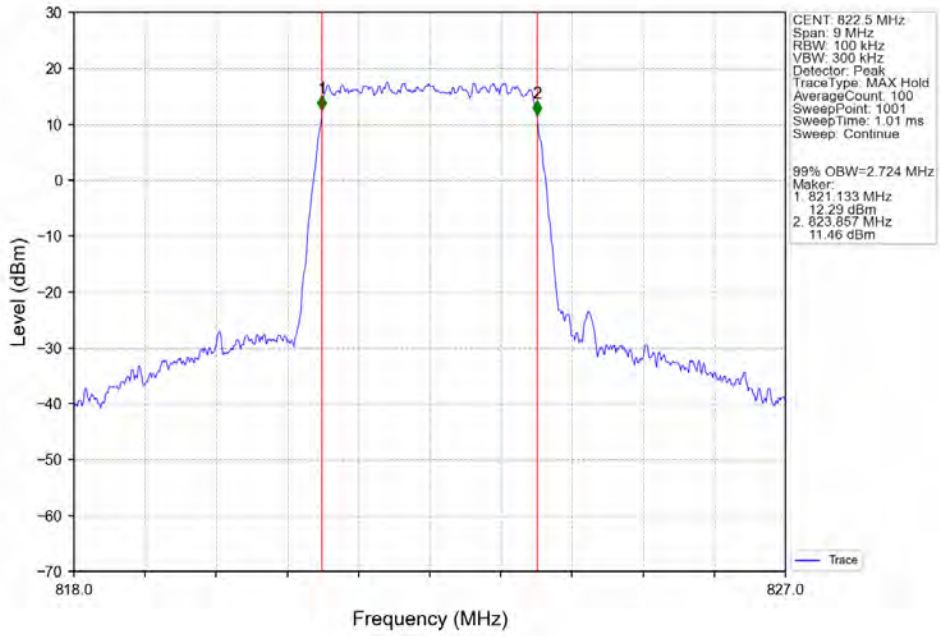
Band26a_3MHz_16QAM_LCH_815.5MHz_RB_15_0_NTNV



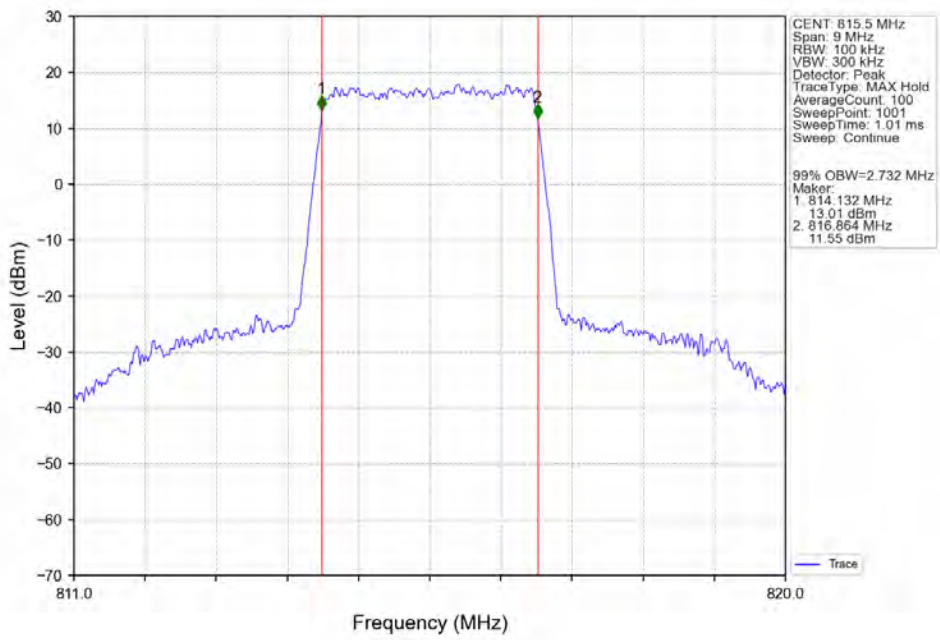
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



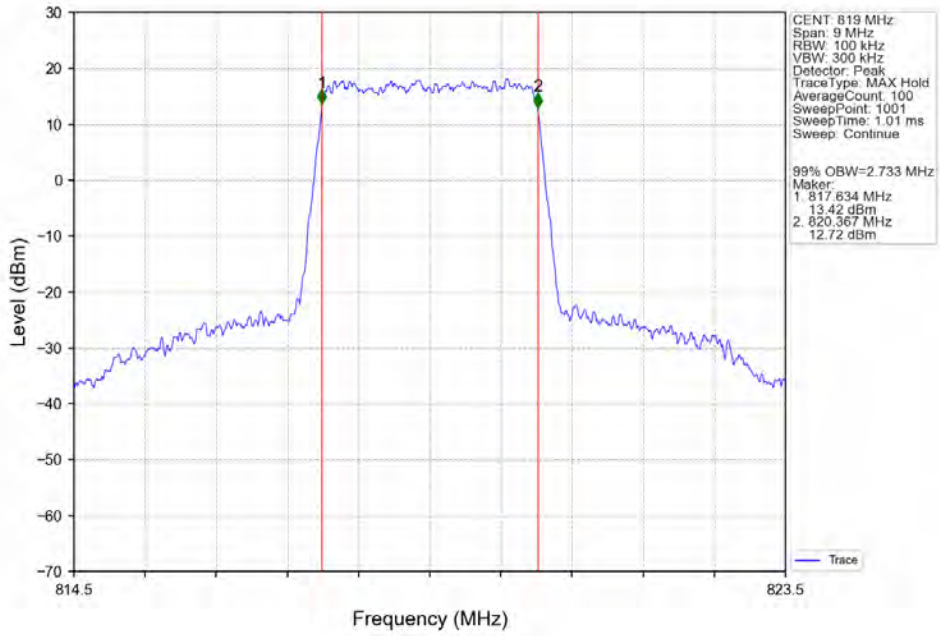
Band26a_3MHz_16QAM_HCH_822.5MHz_RB_15_0_NTNV



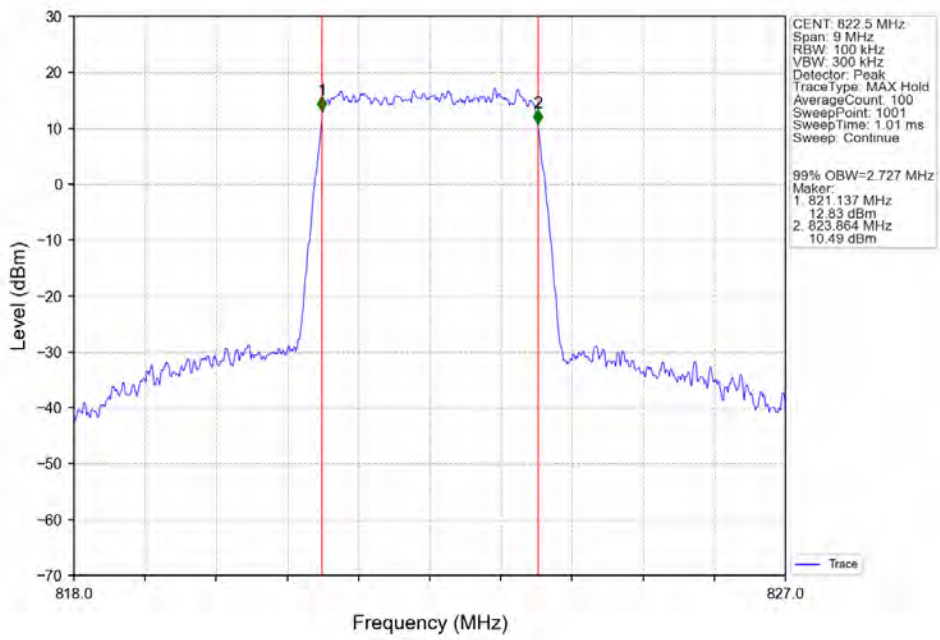
Band26a_3MHz_64QAM_LCH_815.5MHz_RB_15_0_NTNV



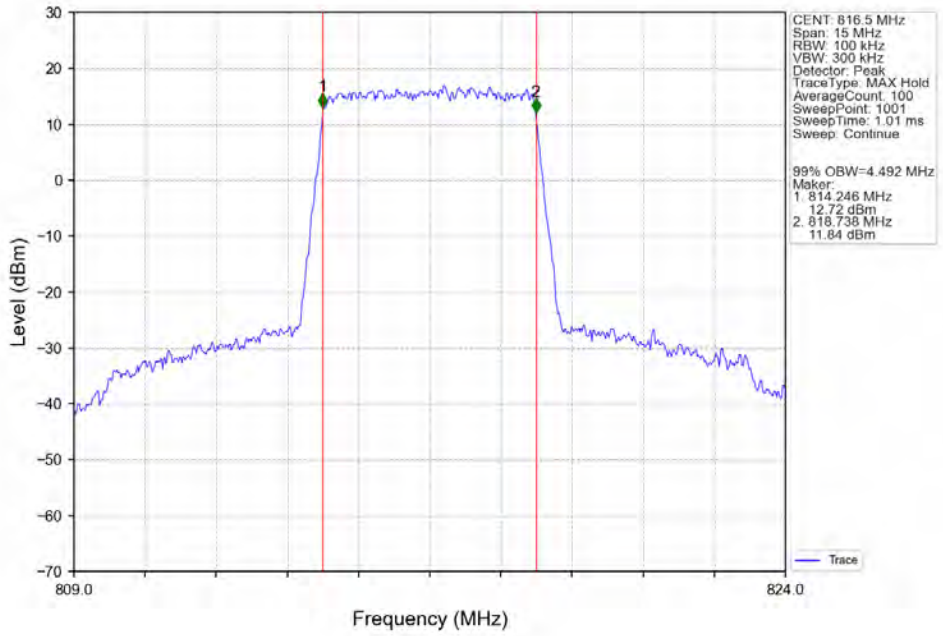
Band26a_3MHz_64QAM_MCH_819MHz_RB_15_0_NTNV



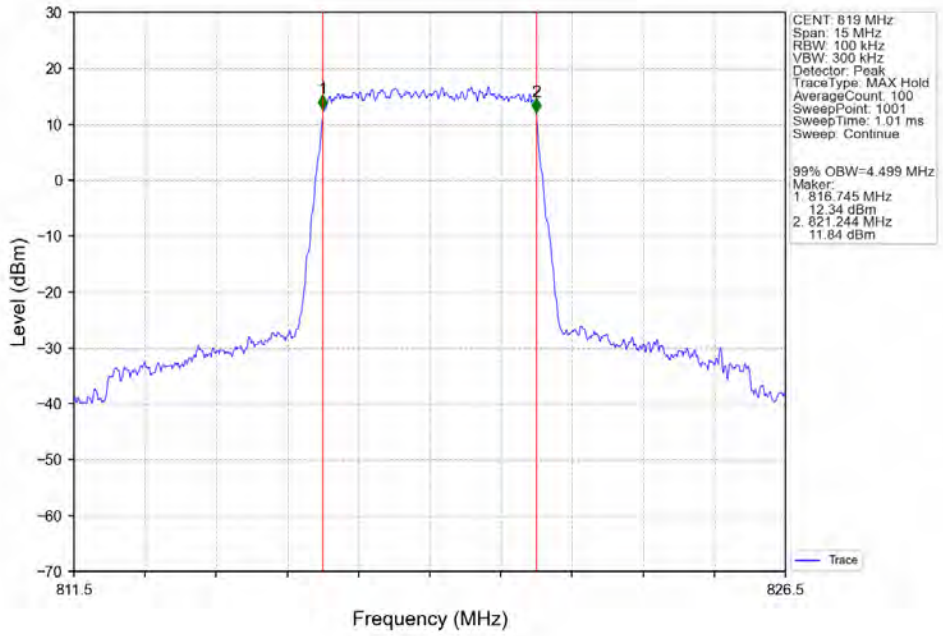
Band26a_3MHz_64QAM_HCH_822.5MHz_RB_15_0_NTNV



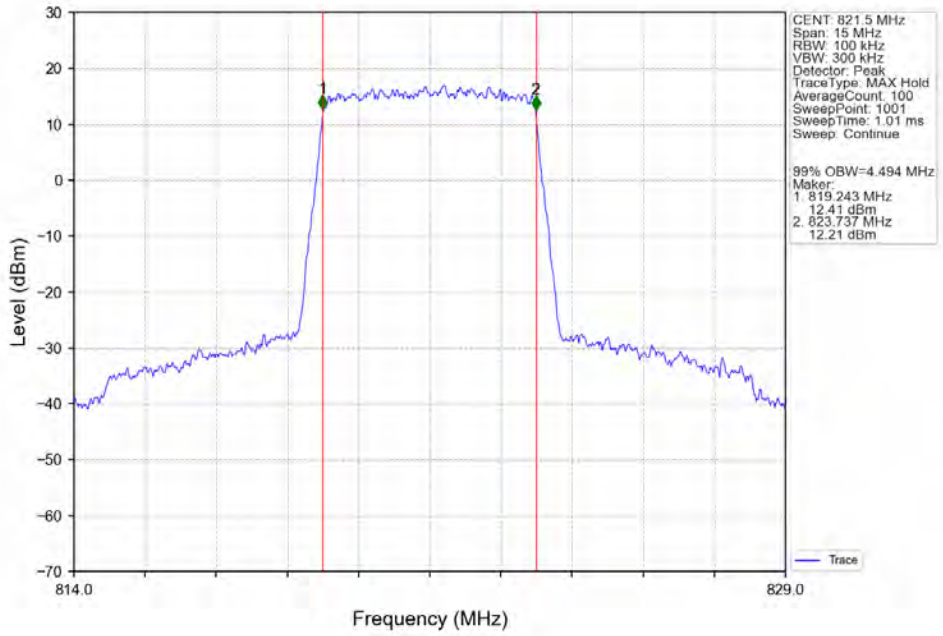
Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV



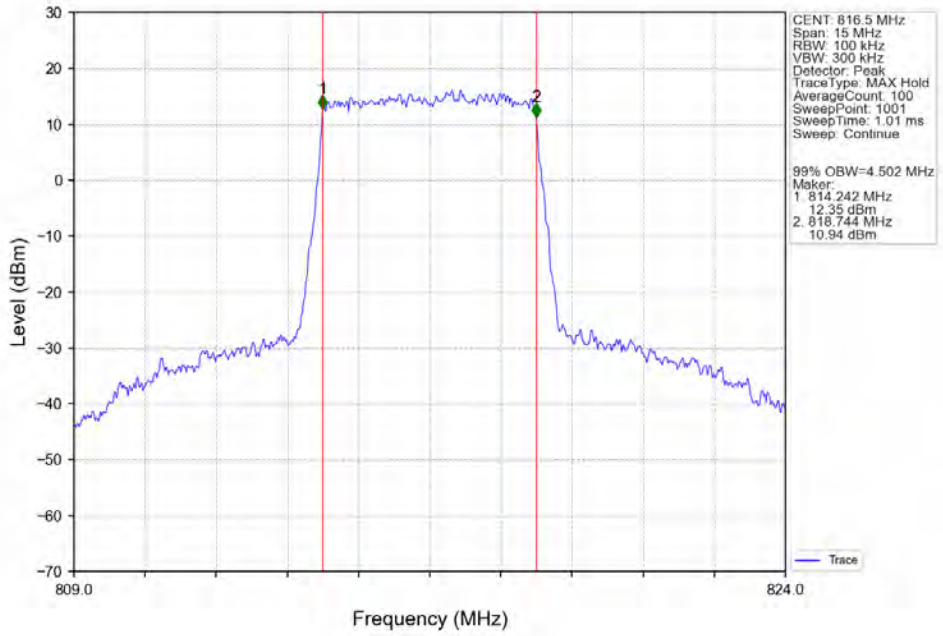
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



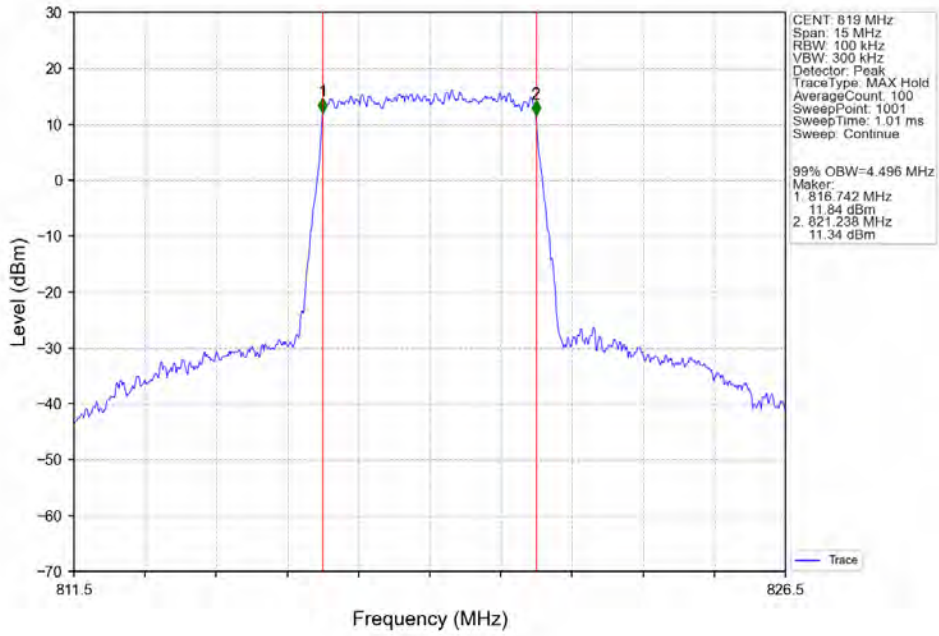
Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



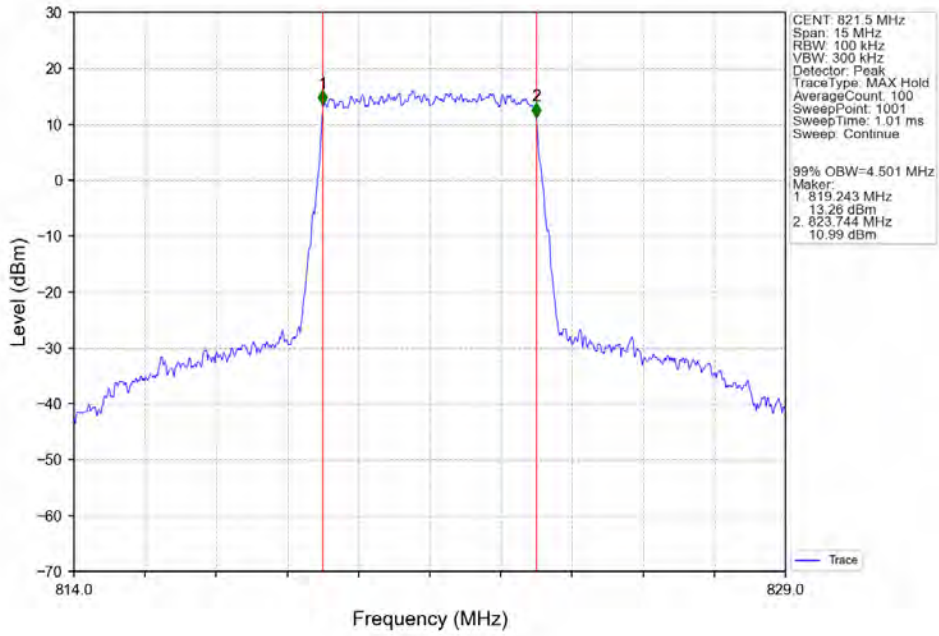
Band26a_5MHz_16QAM_LCH_816.5MHz_RB_25_0_NTNV



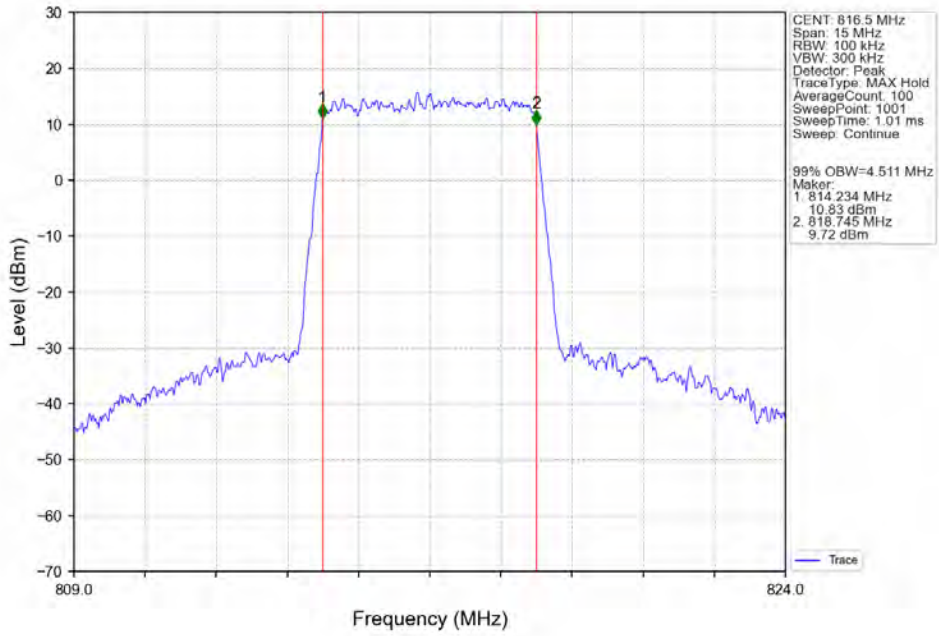
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



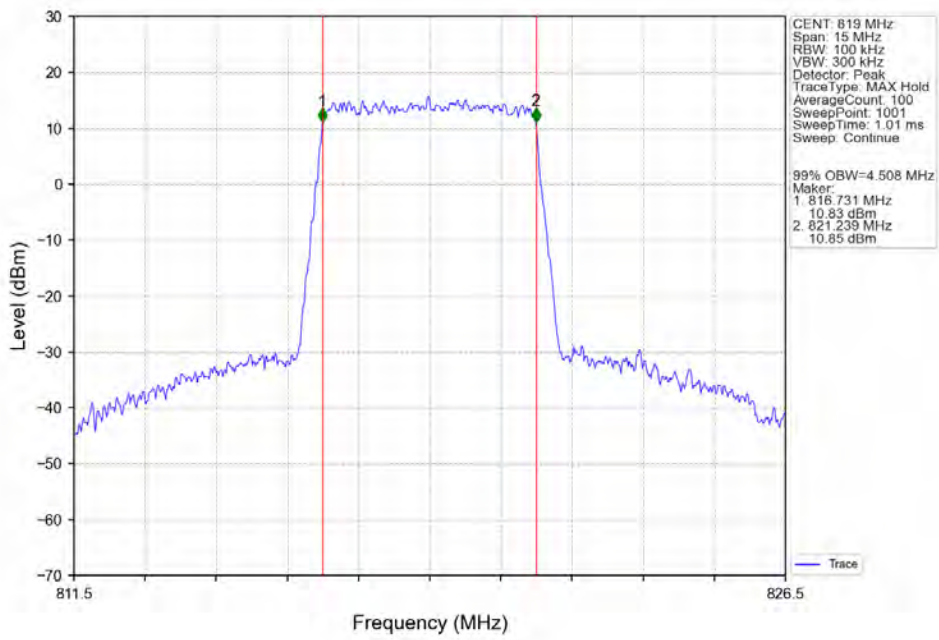
Band26a_5MHz_16QAM_HCH_821.5MHz_RB_25_0_NTNV



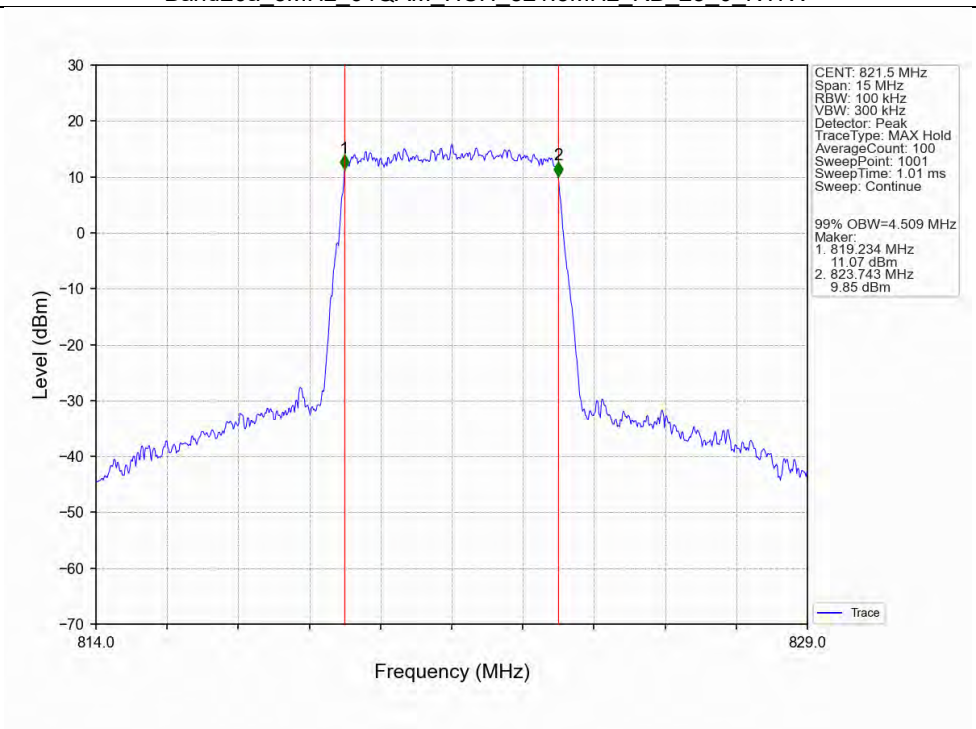
Band26a_5MHz_64QAM_LCH_816.5MHz_RB_25_0_NTNV



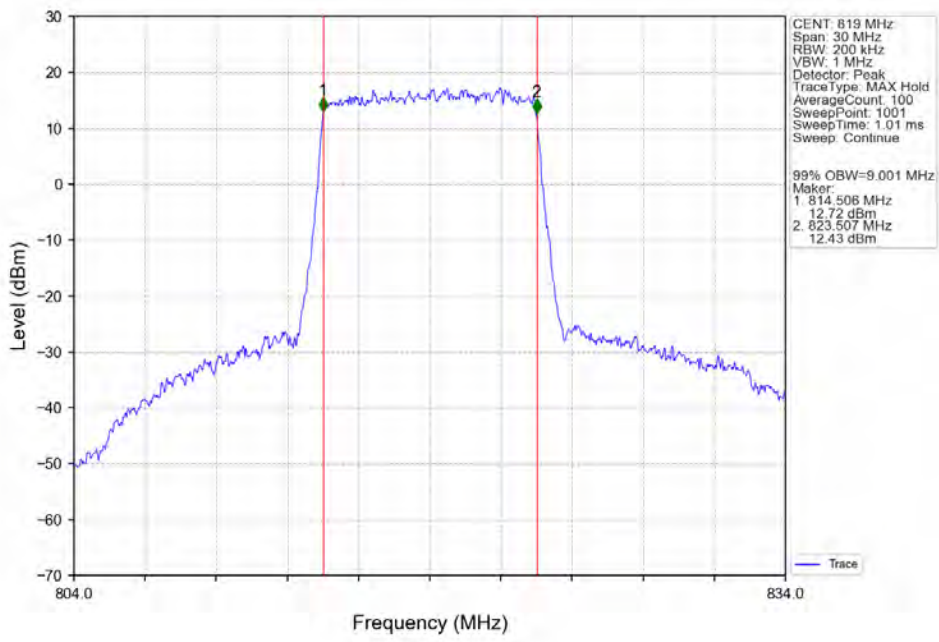
Band26a_5MHz_64QAM_MCH_819MHz_RB_25_0_NTNV



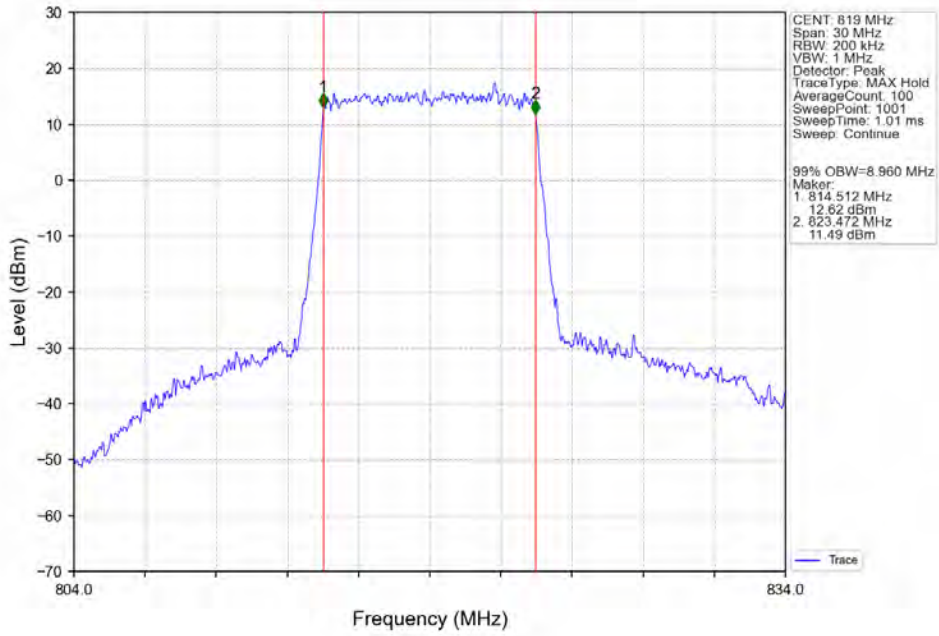
Band26a_5MHz_64QAM_HCH_821.5MHz_RB_25_0_NTNV



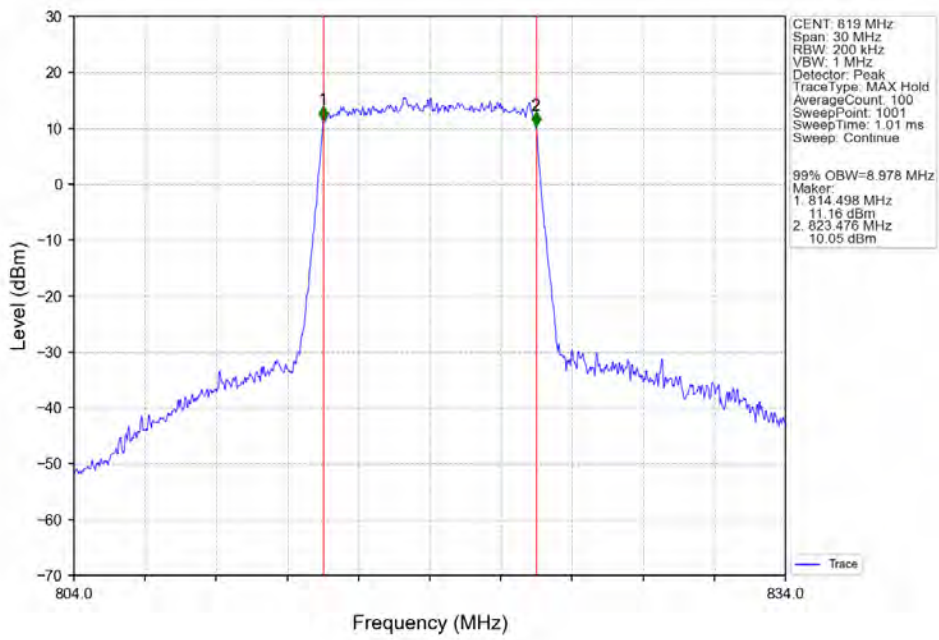
Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



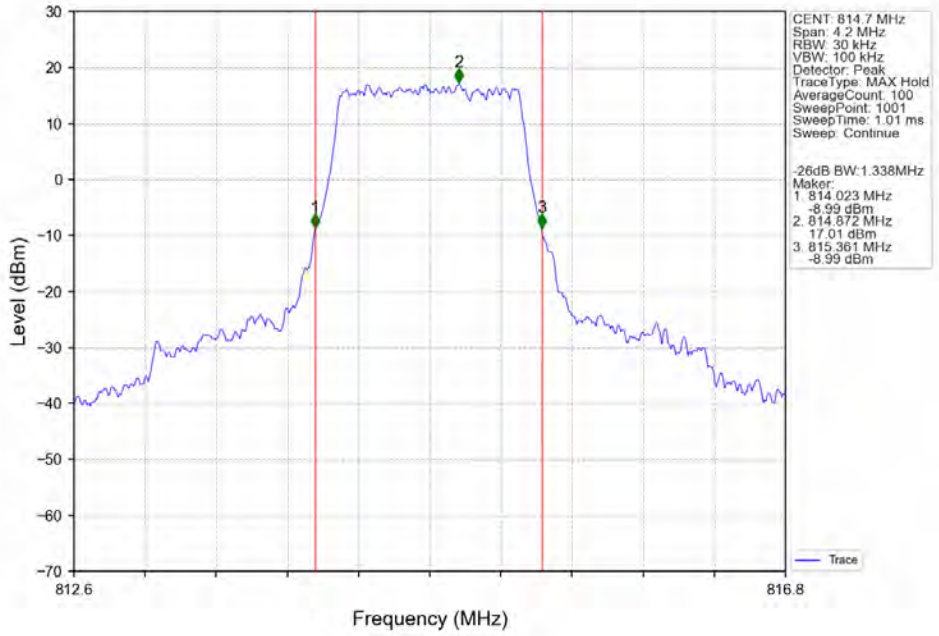
Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV

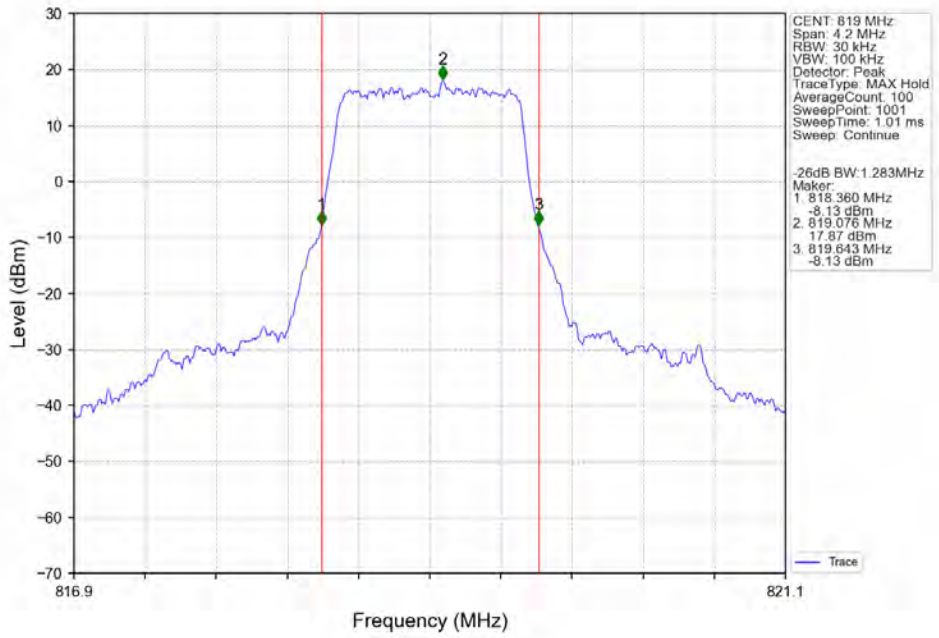


Band26a_10MHz_64QAM_MCH_819MHz_RB_50_0_NTNV

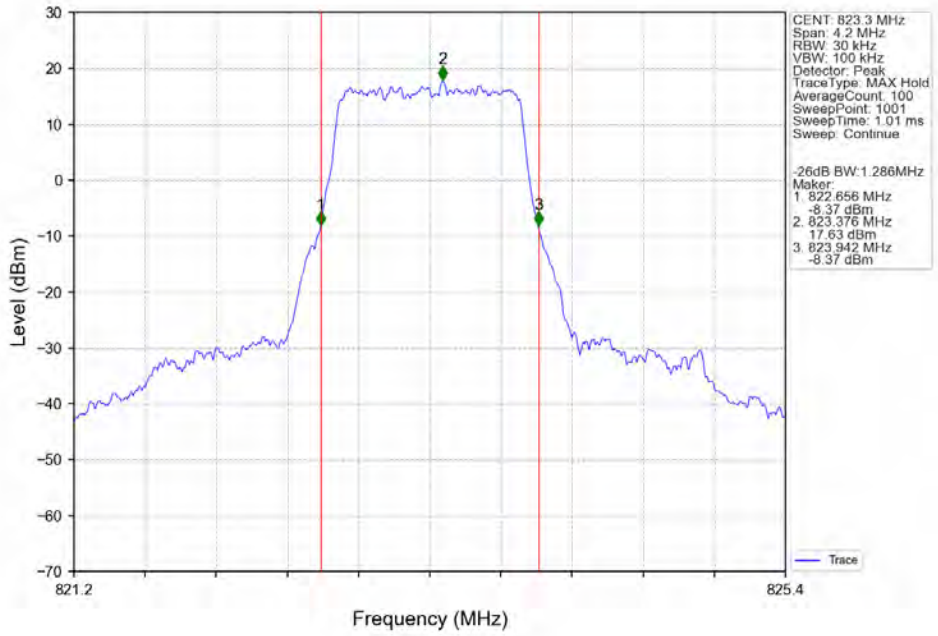


3.2.2 Band26a_XDB

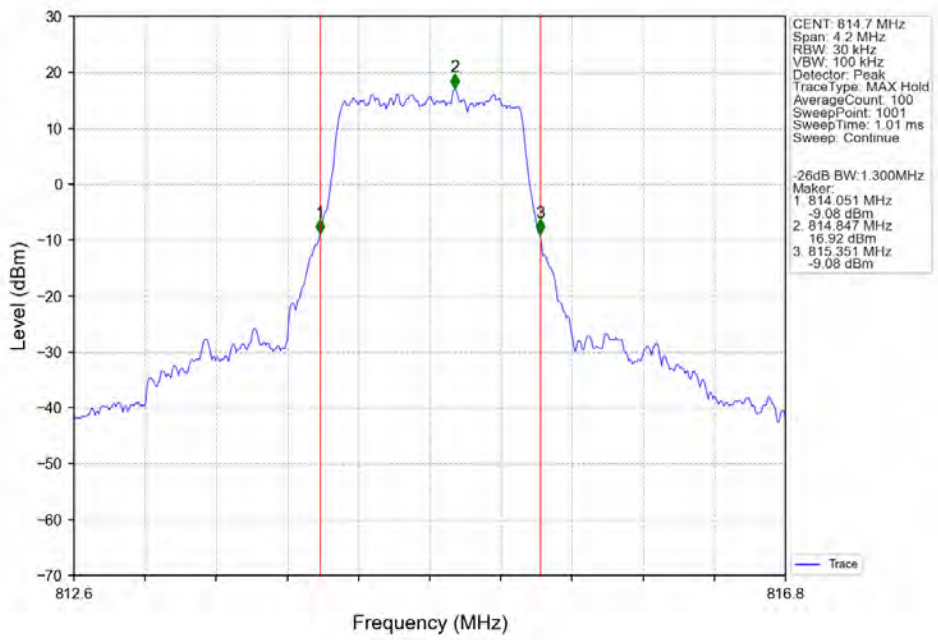
Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV


Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV


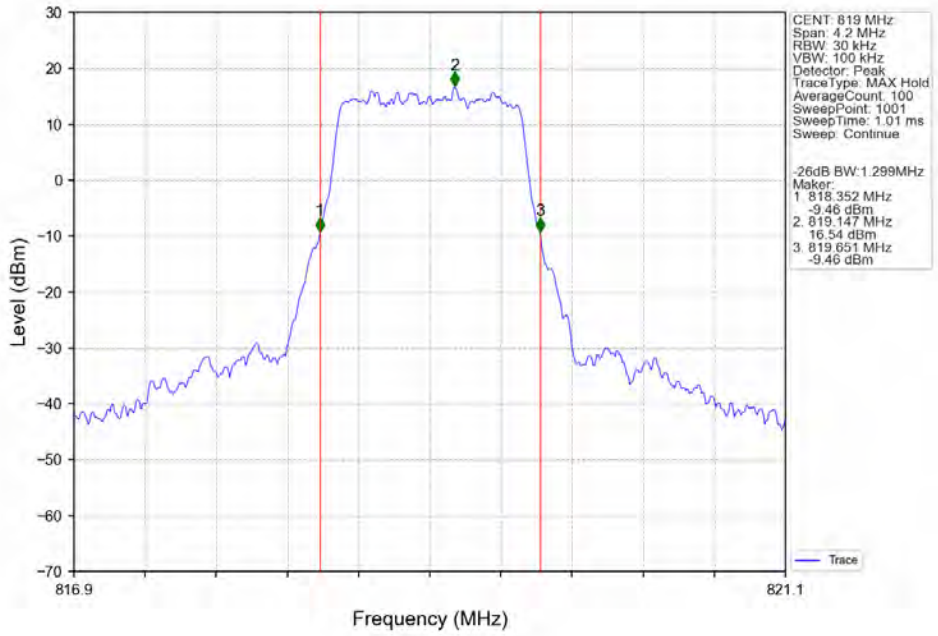
Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV



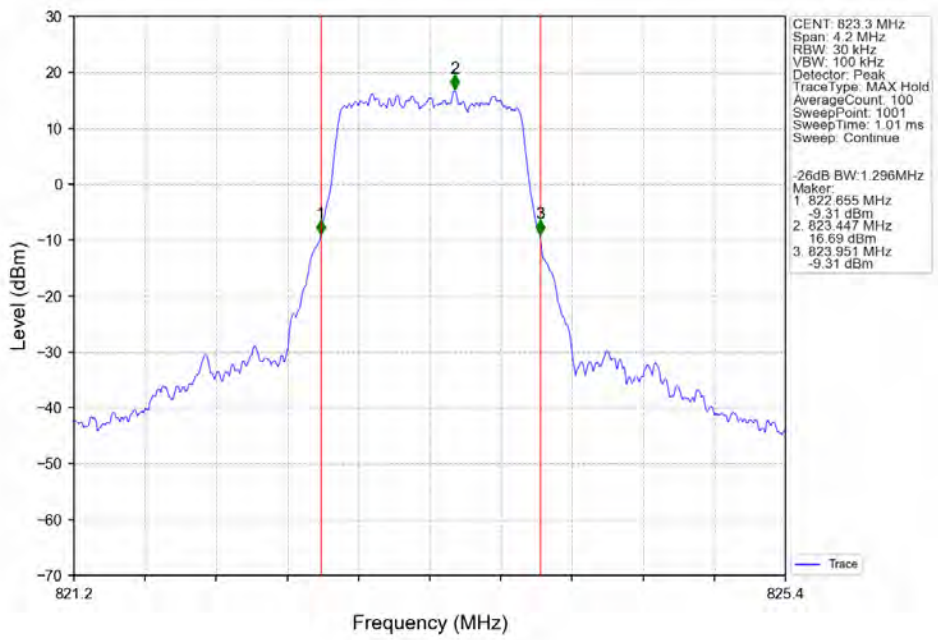
Band26a_1.4MHz_16QAM_LCH_814.7MHz_RB_6_0_NTNV



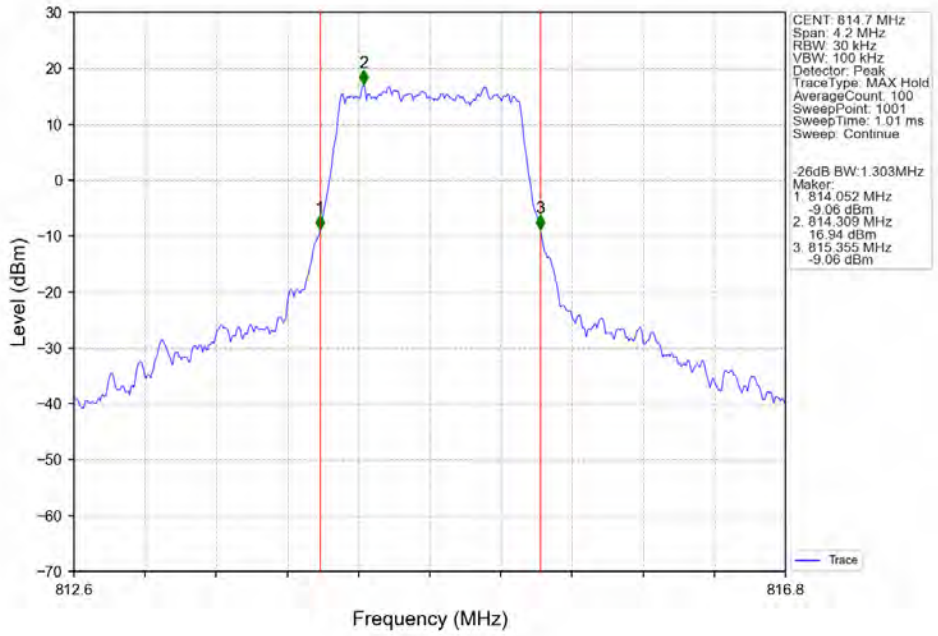
Band26a_1.4MHz_16QAM_MCH_819MHz_RB_6_0_NTNV



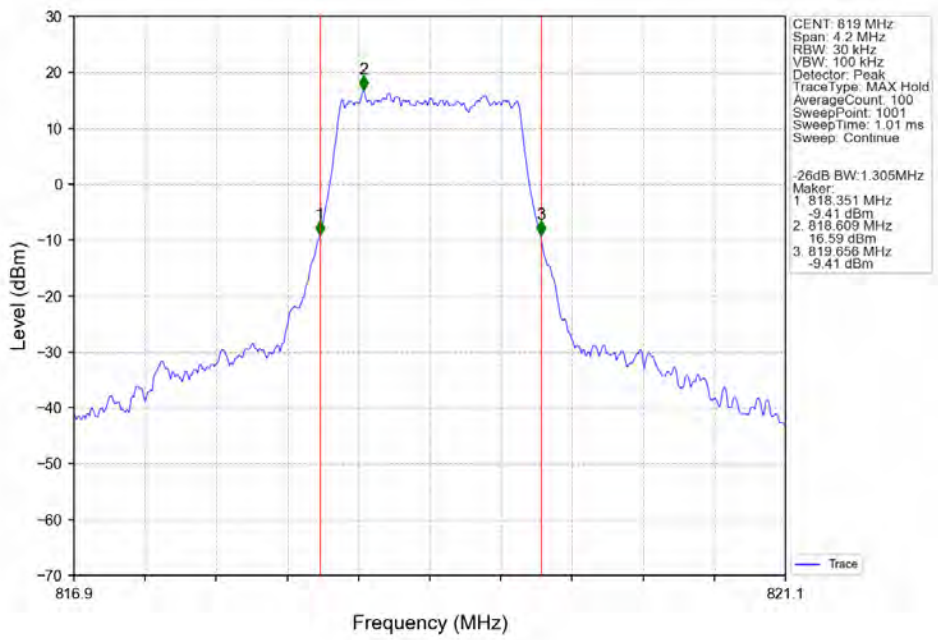
Band26a_1.4MHz_16QAM_HCH_823.3MHz_RB_6_0_NTNV



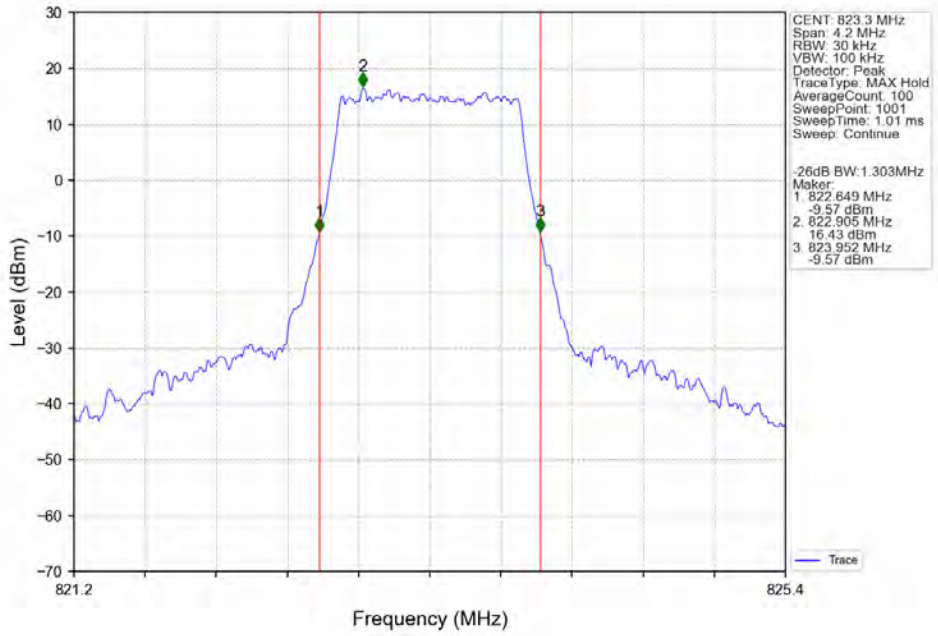
Band26a_1.4MHz_64QAM_LCH_814.7MHz_RB_6_0_NTNV



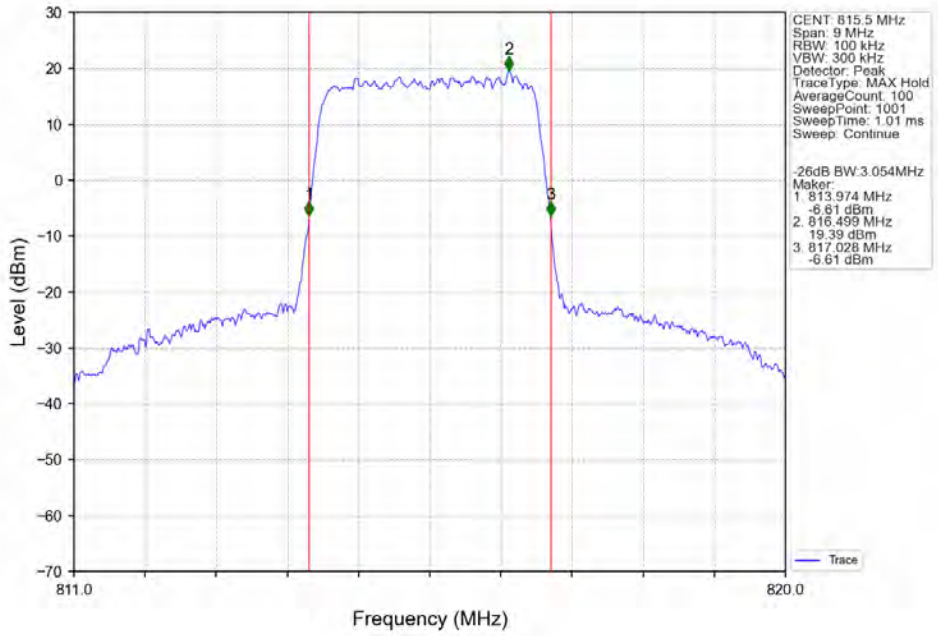
Band26a_1.4MHz_64QAM_MCH_819MHz_RB_6_0_NTNV



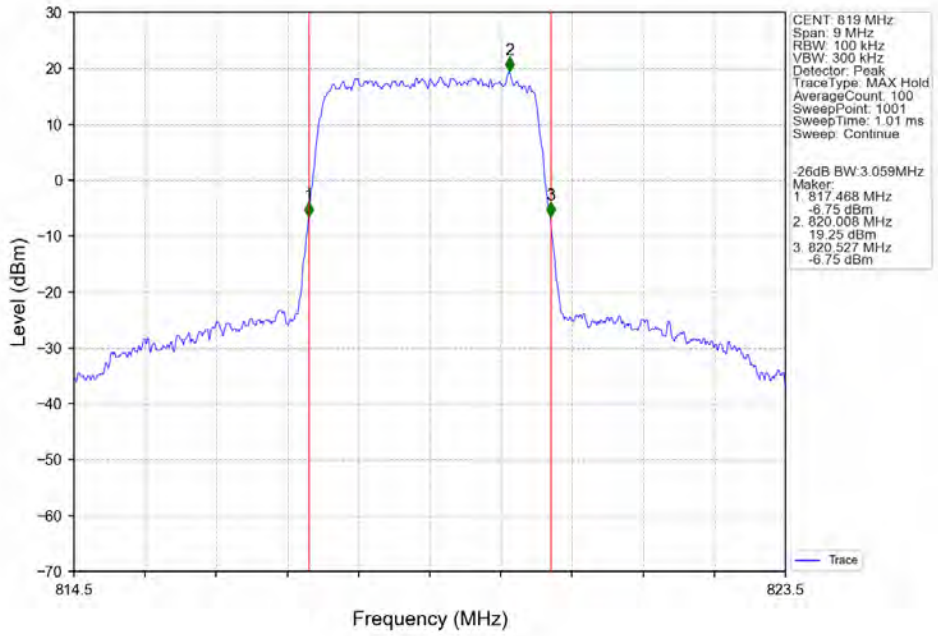
Band26a_1.4MHz_64QAM_HCH_823.3MHz_RB_6_0_NTNV



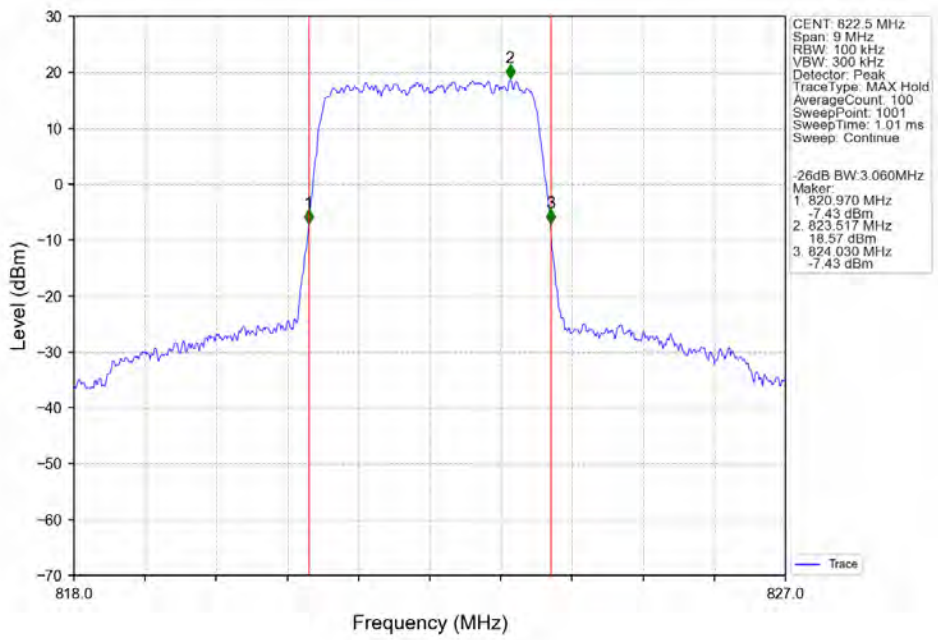
Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV



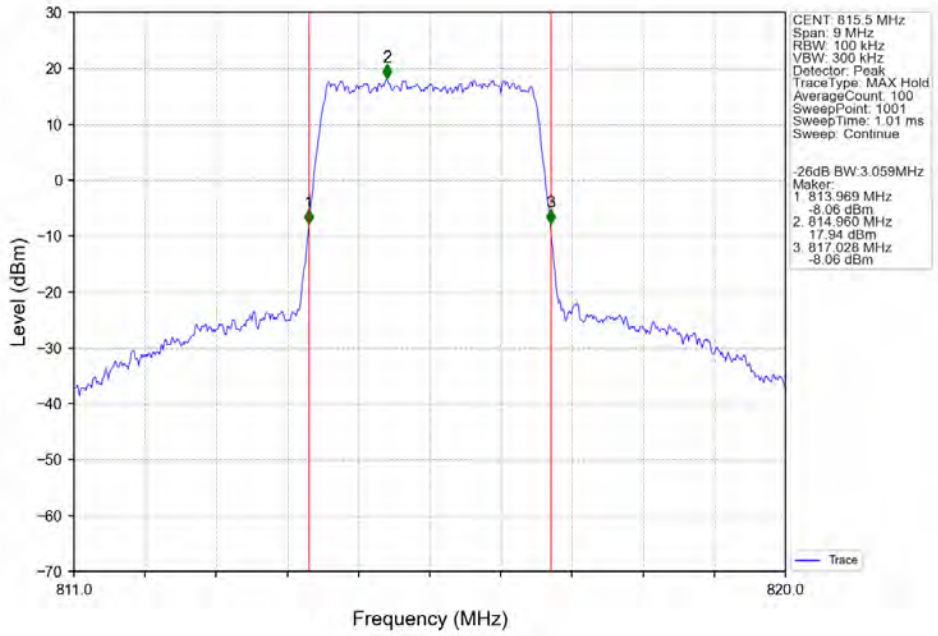
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



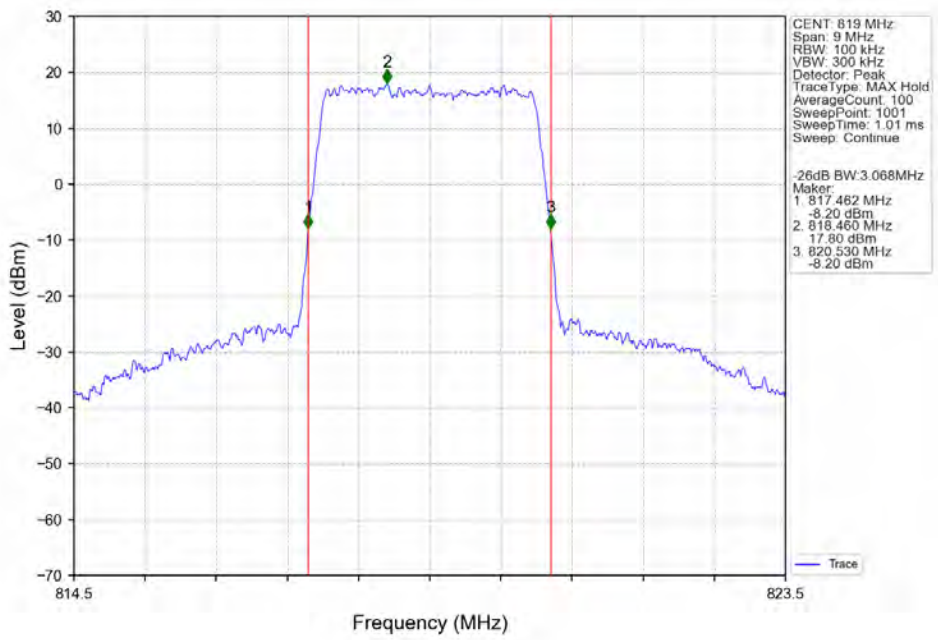
Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



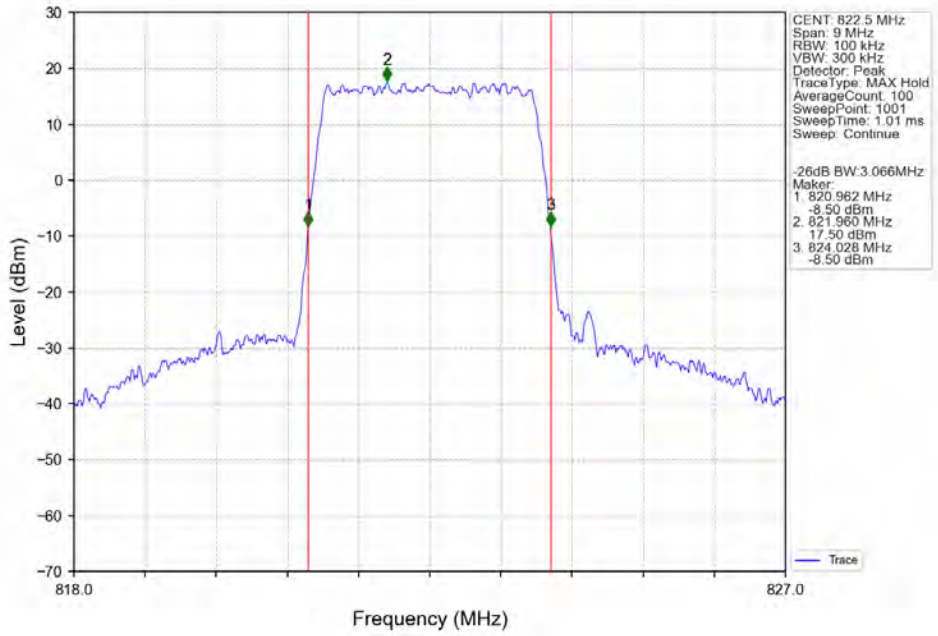
Band26a_3MHz_16QAM_LCH_815.5MHz_RB_15_0_NTNV



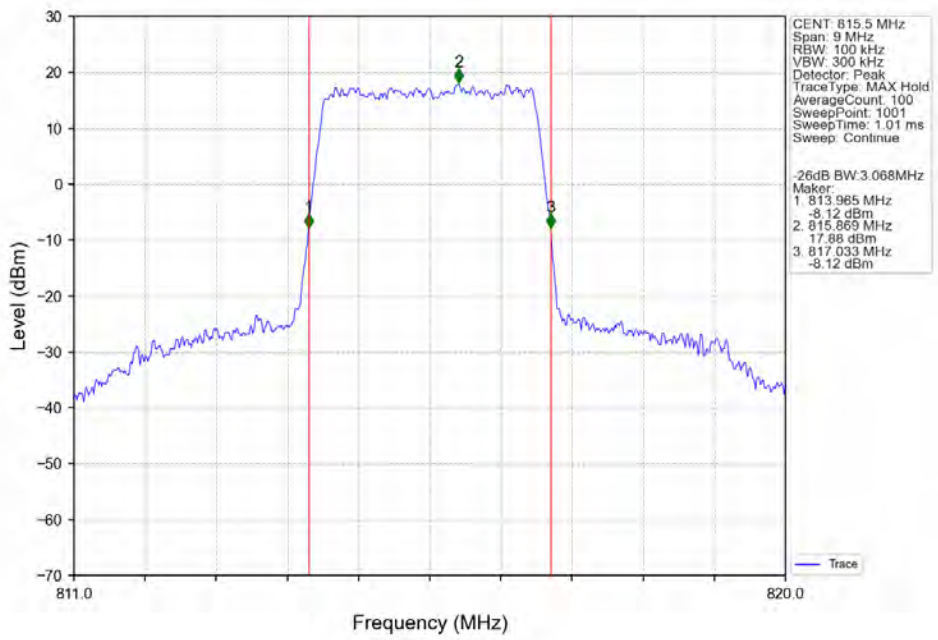
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



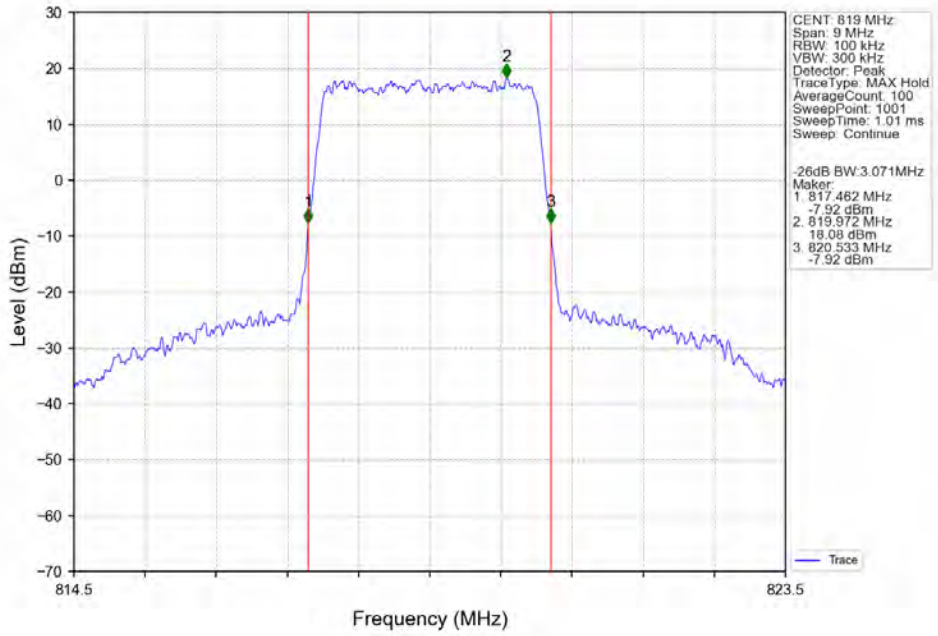
Band26a_3MHz_16QAM_HCH_822.5MHz_RB_15_0_NTNV



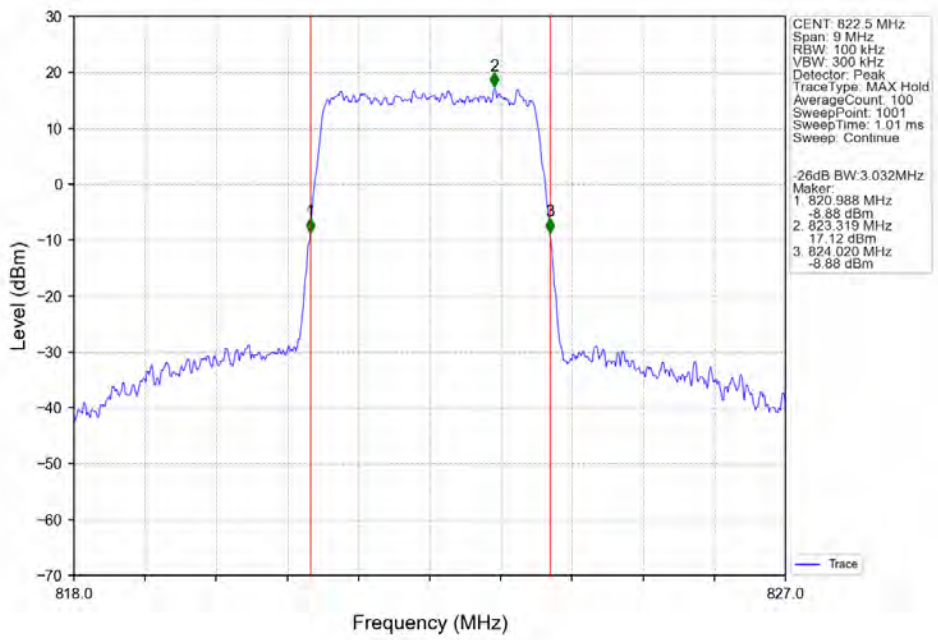
Band26a_3MHz_64QAM_LCH_815.5MHz_RB_15_0_NTNV



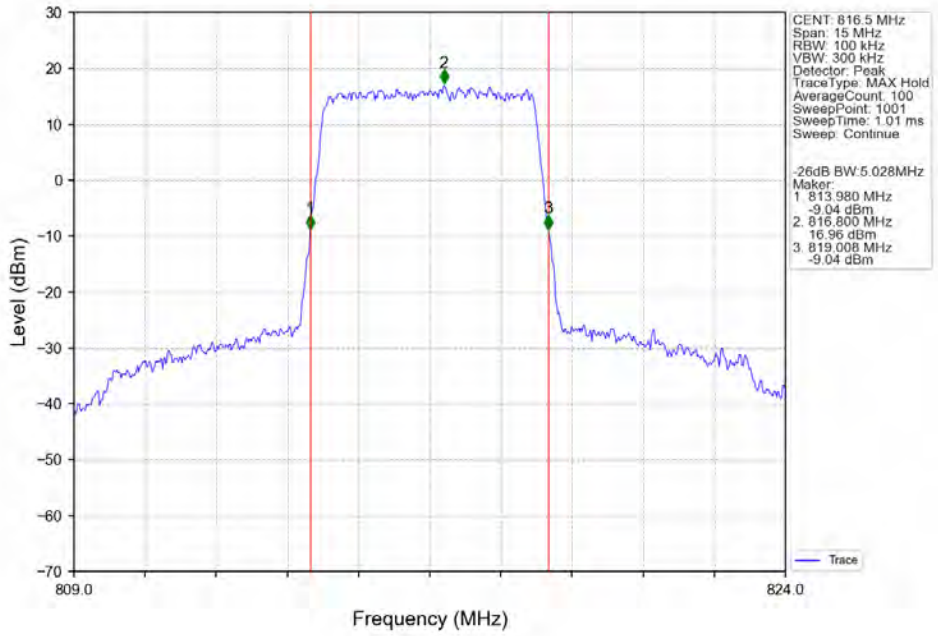
Band26a_3MHz_64QAM_MCH_819MHz_RB_15_0_NTNV



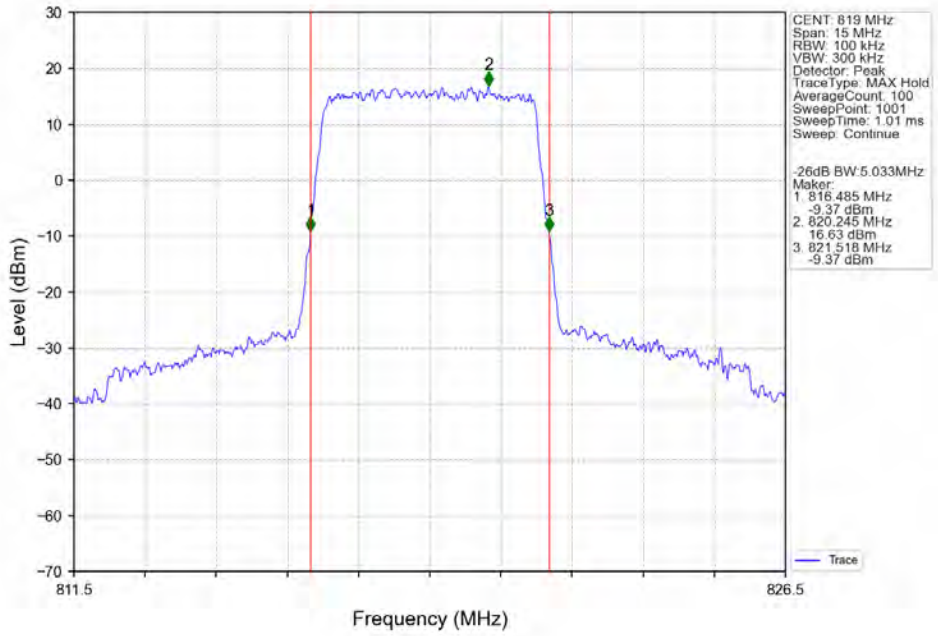
Band26a_3MHz_64QAM_HCH_822.5MHz_RB_15_0_NTNV



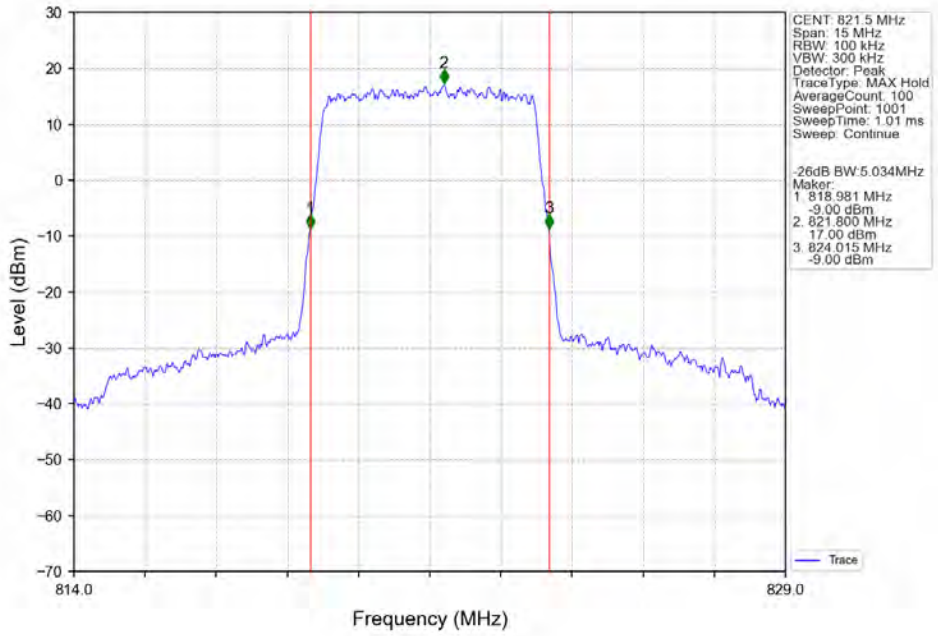
Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV



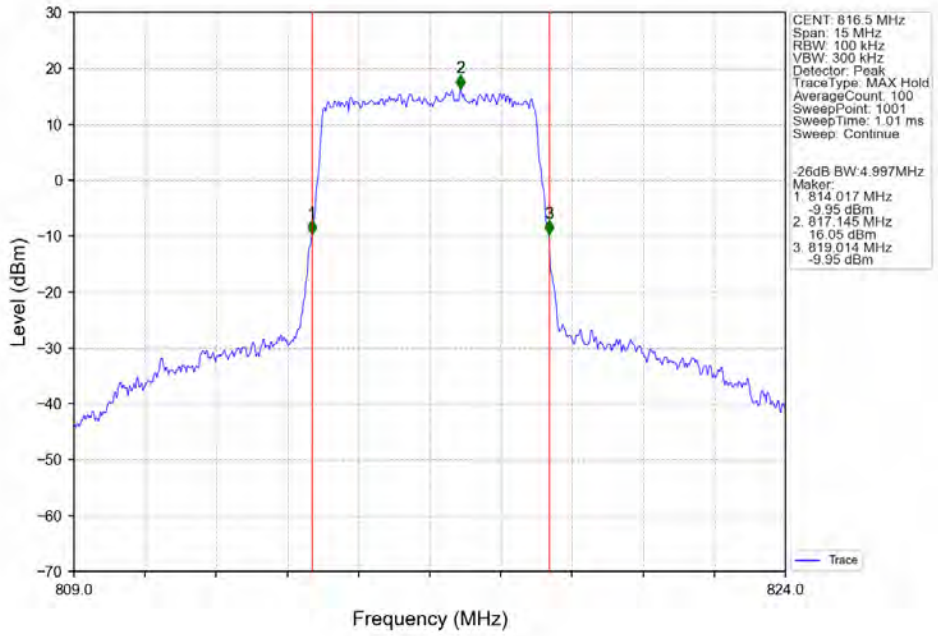
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



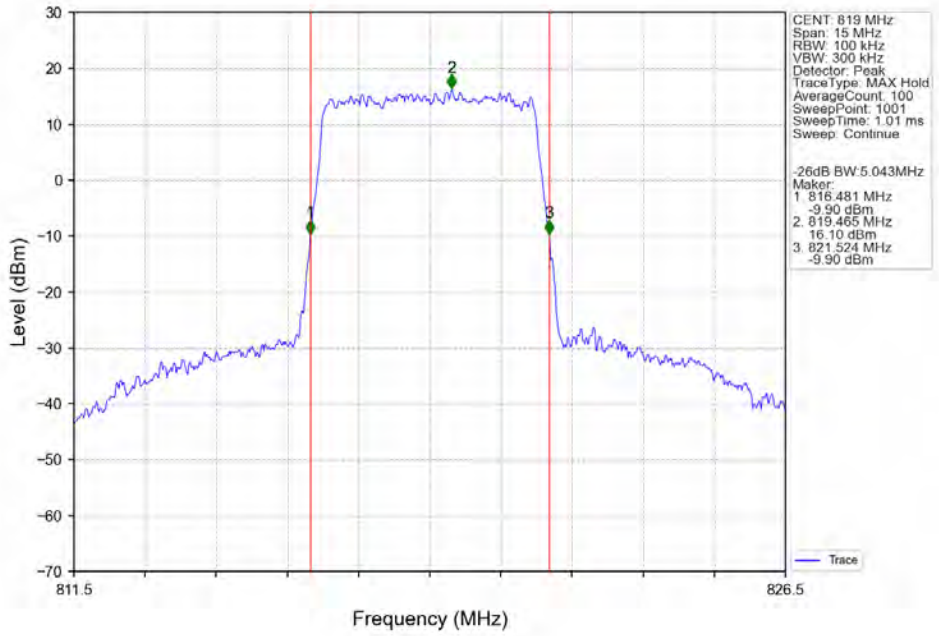
Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



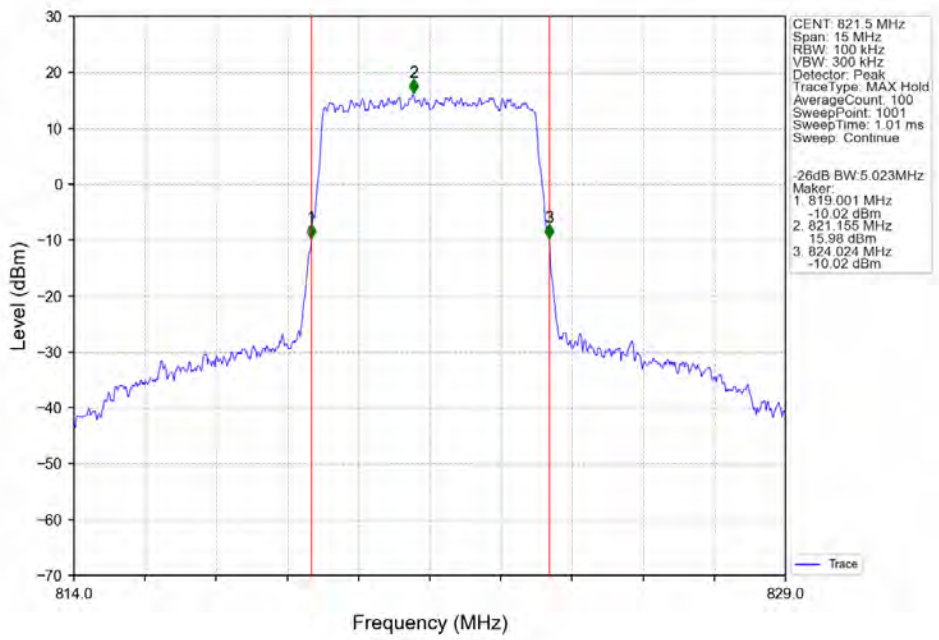
Band26a_5MHz_16QAM_LCH_816.5MHz_RB_25_0_NTNV



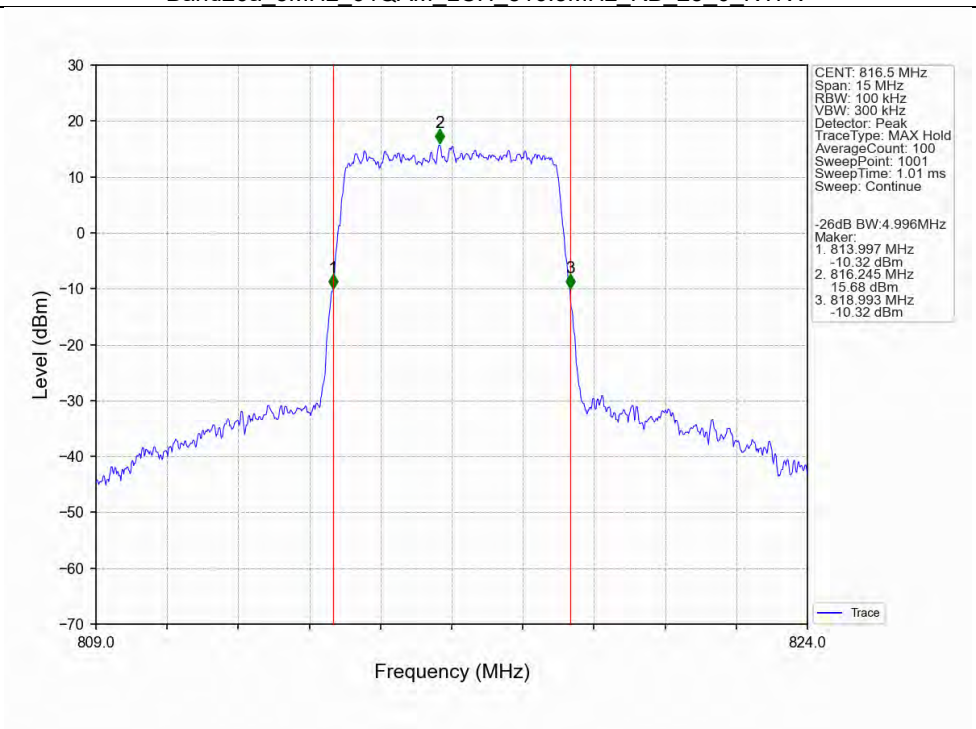
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



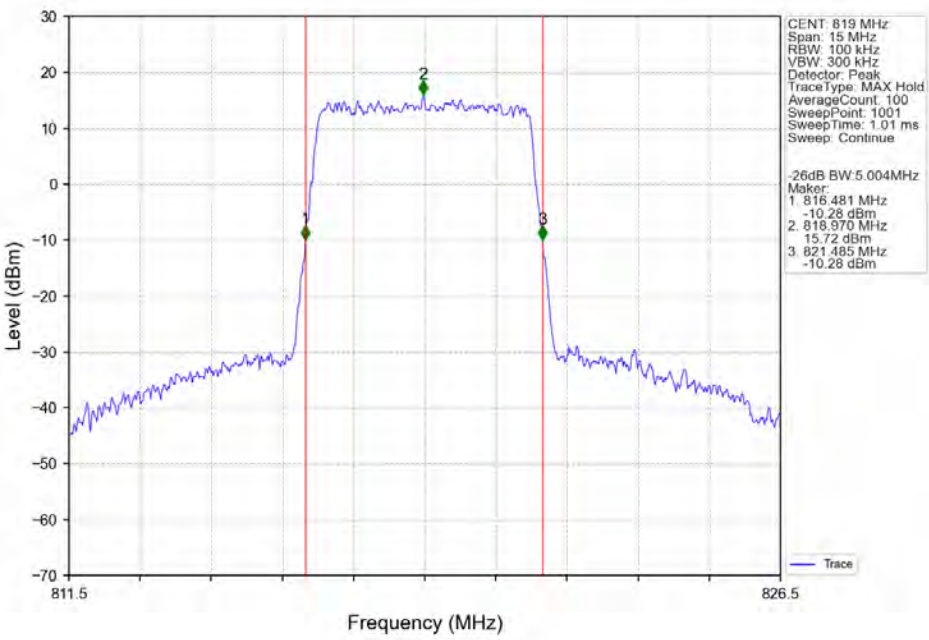
Band26a_5MHz_16QAM_HCH_821.5MHz_RB_25_0_NTNV



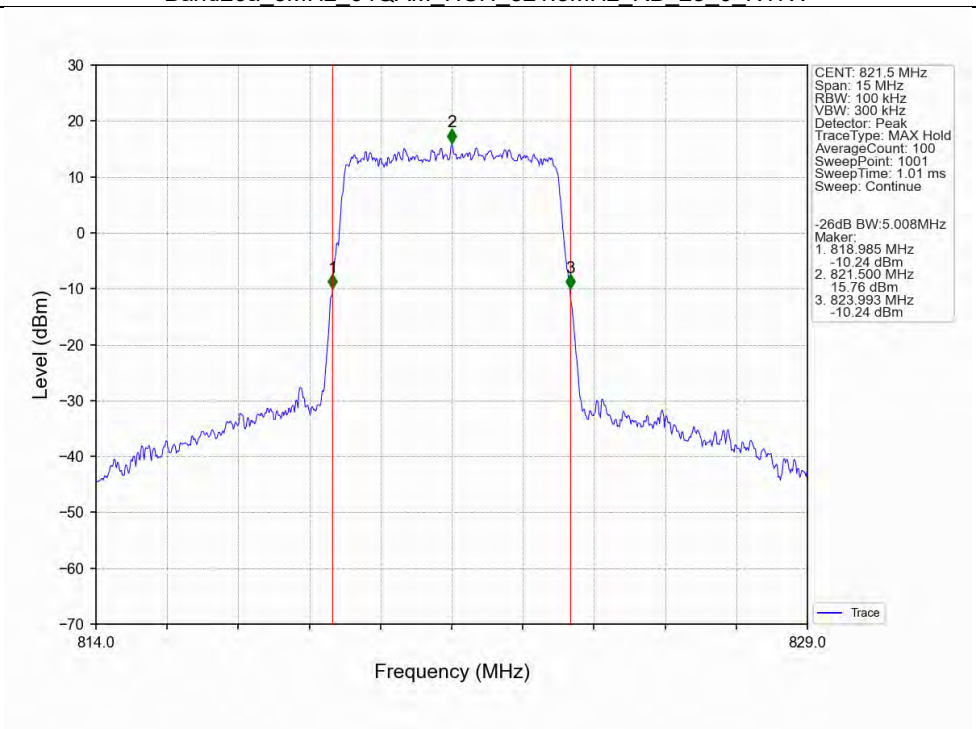
Band26a_5MHz_64QAM_LCH_816.5MHz_RB_25_0_NTNV



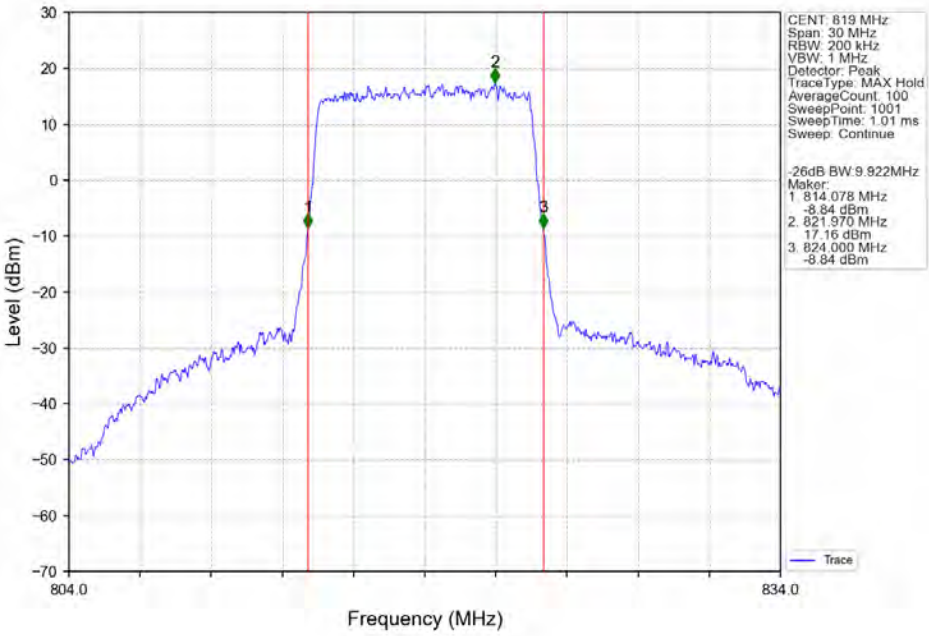
Band26a_5MHz_64QAM_MCH_819MHz_RB_25_0_NTNV



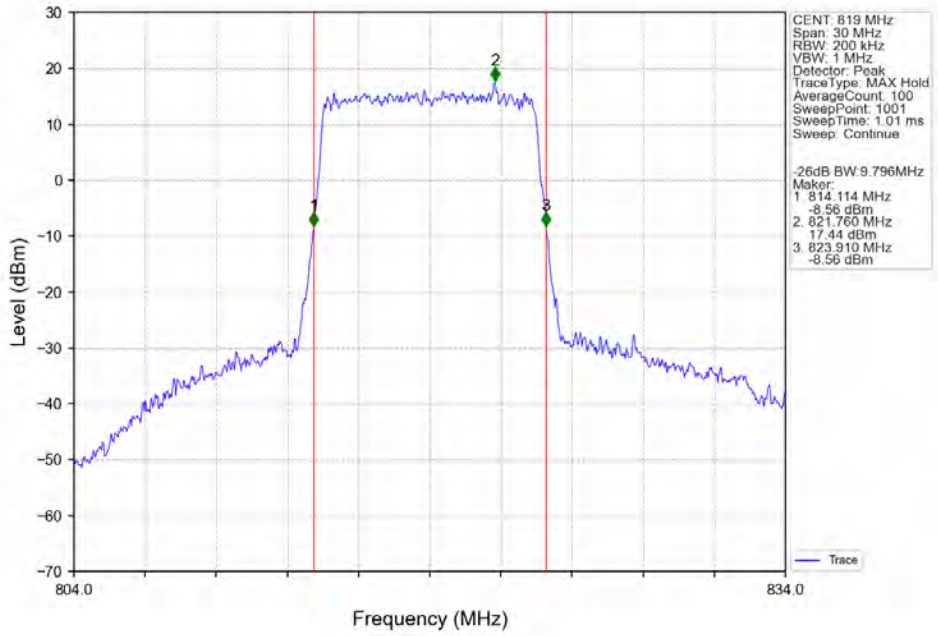
Band26a_5MHz_64QAM_HCH_821.5MHz_RB_25_0_NTNV



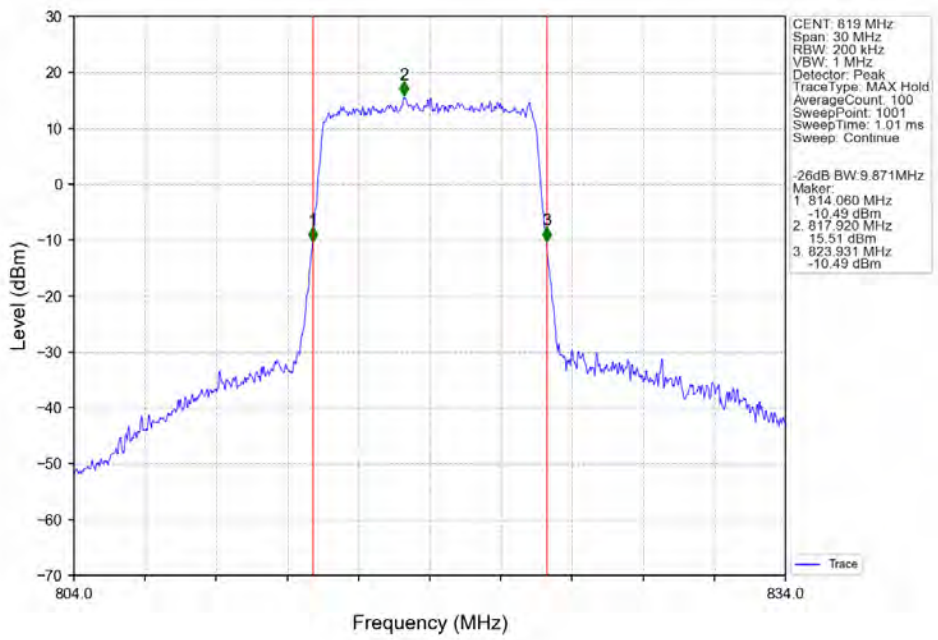
Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



Band26a_10MHz_64QAM_MCH_819MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	6	0	4.54	<=13	Pass
	819	6	0	4.70	<=13	Pass
	823.3	6	0	4.78	<=13	Pass
16QAM	814.7	6	0	5.36	<=13	Pass
	819	6	0	5.54	<=13	Pass
	823.3	6	0	5.56	<=13	Pass
64QAM	814.7	6	0	5.34	<=13	Pass
	819	6	0	5.44	<=13	Pass
	823.3	6	0	5.50	<=13	Pass

4.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	15	0	4.70	<=13	Pass
	819	15	0	4.80	<=13	Pass
	822.5	15	0	4.82	<=13	Pass
16QAM	815.5	15	0	5.64	<=13	Pass
	819	15	0	5.60	<=13	Pass
	822.5	15	0	5.68	<=13	Pass
64QAM	815.5	15	0	5.50	<=13	Pass
	819	15	0	5.52	<=13	Pass
	822.5	15	0	5.60	<=13	Pass

4.1.3 B26a_5MHz

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	25	0	4.78	<=13	Pass
	819	25	0	4.78	<=13	Pass
	821.5	25	0	4.80	<=13	Pass
16QAM	816.5	25	0	5.54	<=13	Pass
	819	25	0	5.56	<=13	Pass
	821.5	25	0	5.62	<=13	Pass
64QAM	816.5	25	0	5.54	<=13	Pass
	819	25	0	5.54	<=13	Pass
	821.5	25	0	5.56	<=13	Pass

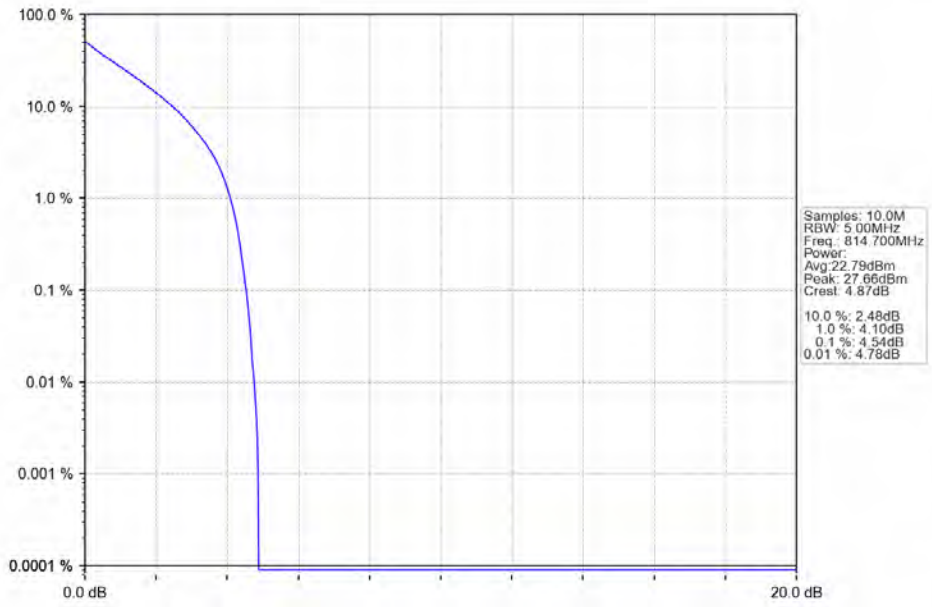
4.1.4 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	50	0	4.92	<=13	Pass
16QAM	819	50	0	5.66	<=13	Pass
64QAM	819	50	0	5.60	<=13	Pass

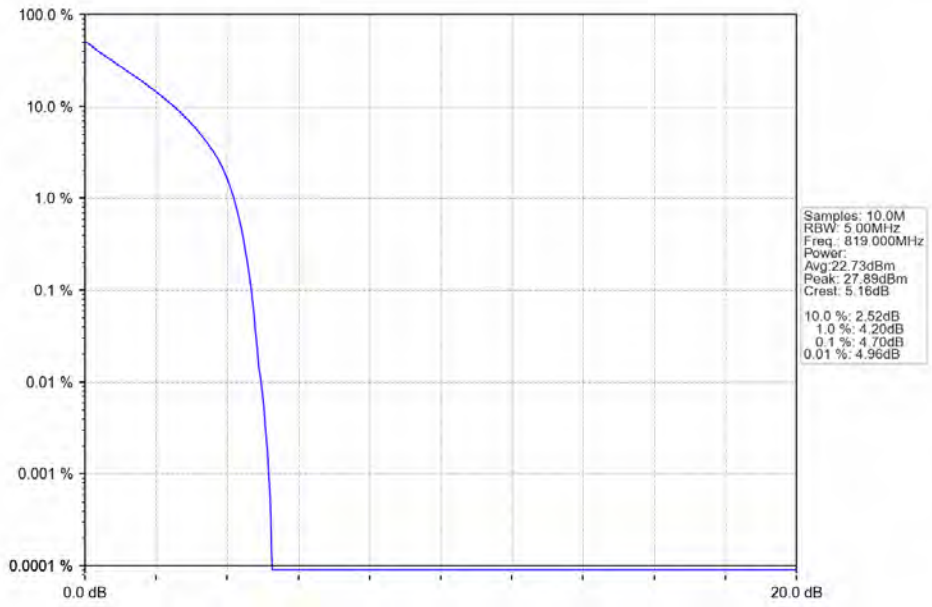
4.2 Test Graph

4.2.1 B26a_1.4MHz

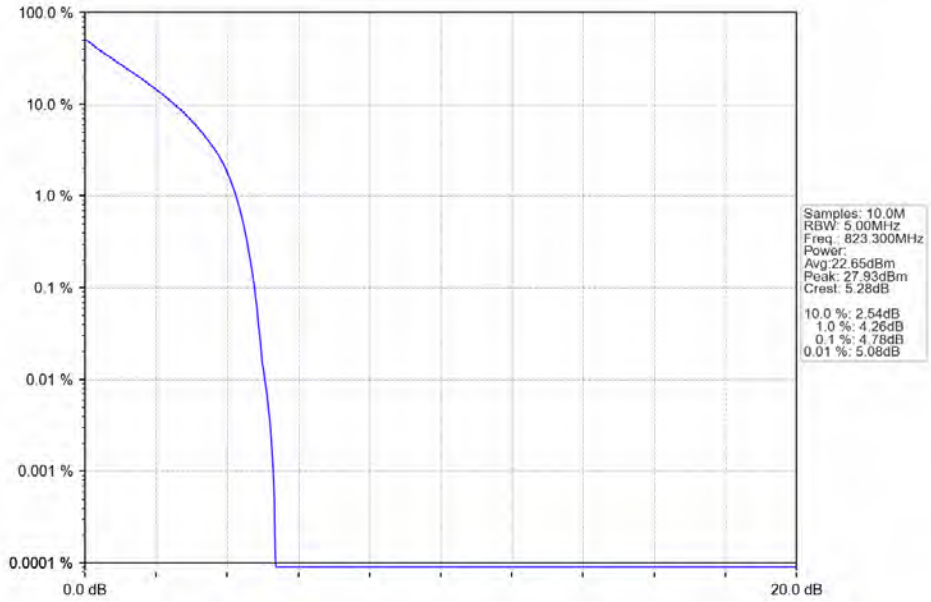
Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV



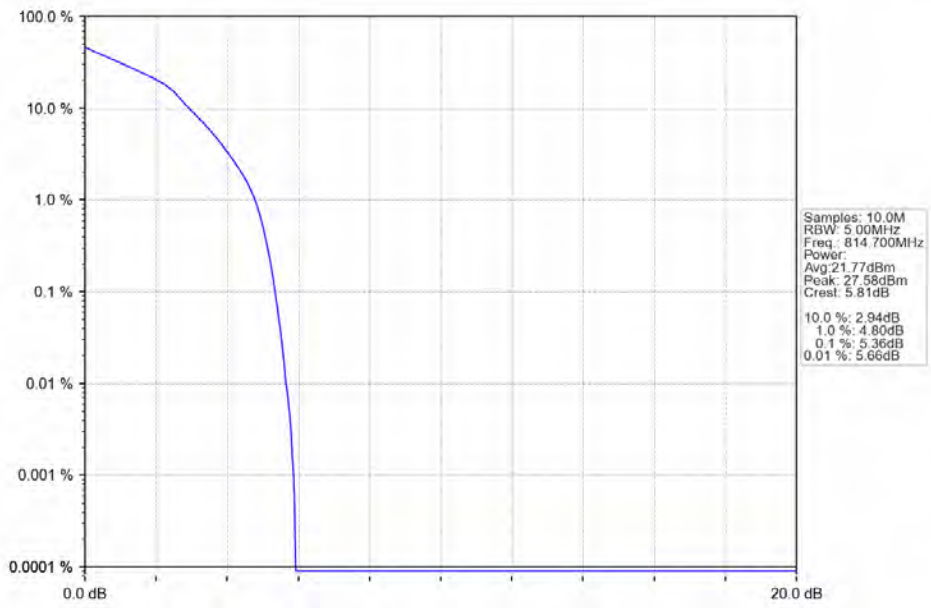
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



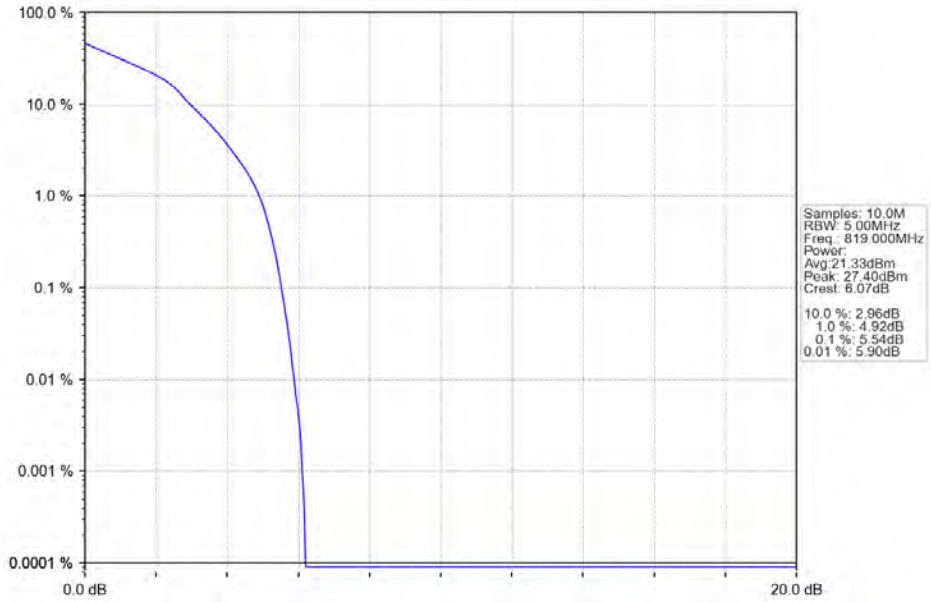
Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV



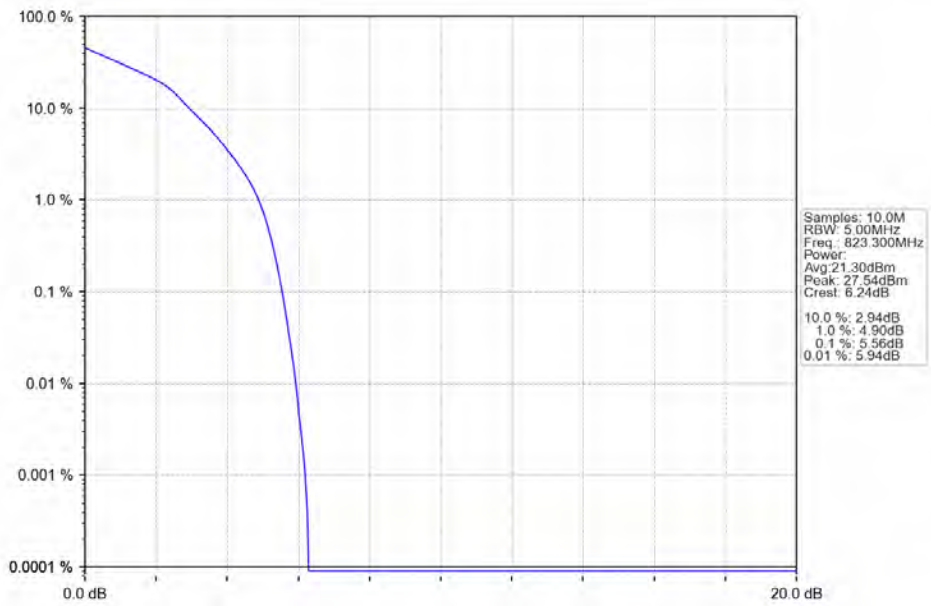
Band26a_1.4MHz_16QAM_LCH_814.7MHz_RB_6_0_NTNV



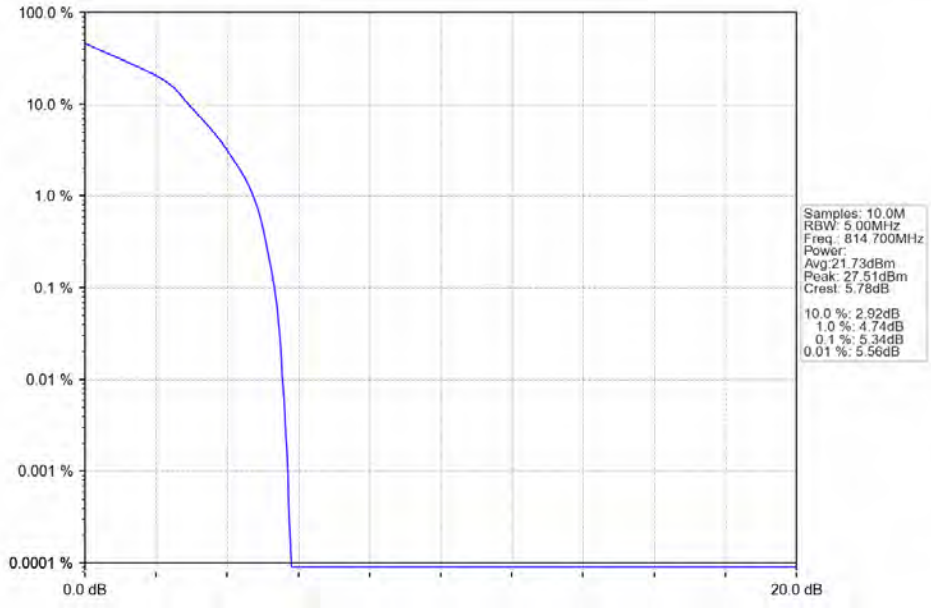
Band26a_1.4MHz_16QAM_MCH_819MHz_RB_6_0_NTNV



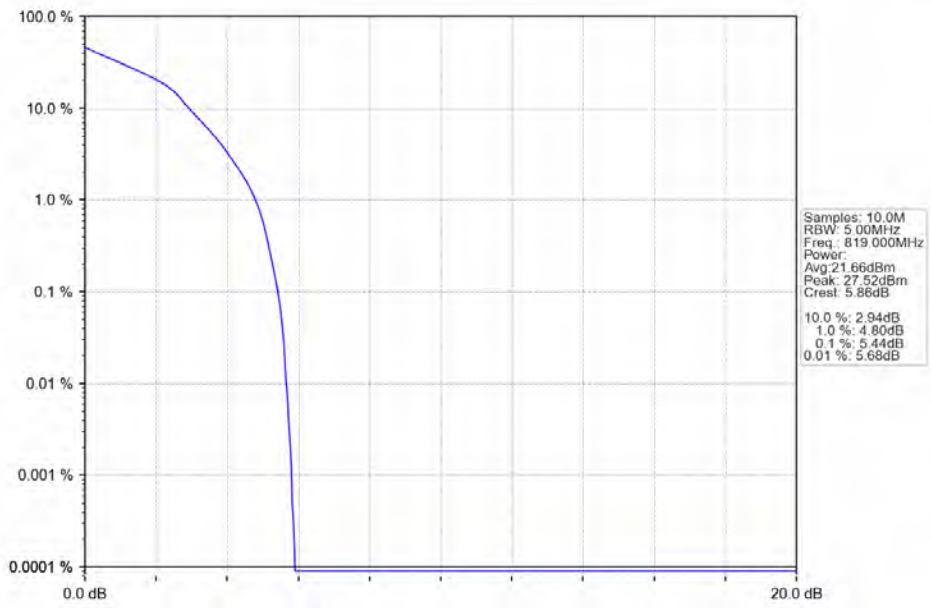
Band26a_1.4MHz_16QAM_HCH_823.3MHz_RB_6_0_NTNV



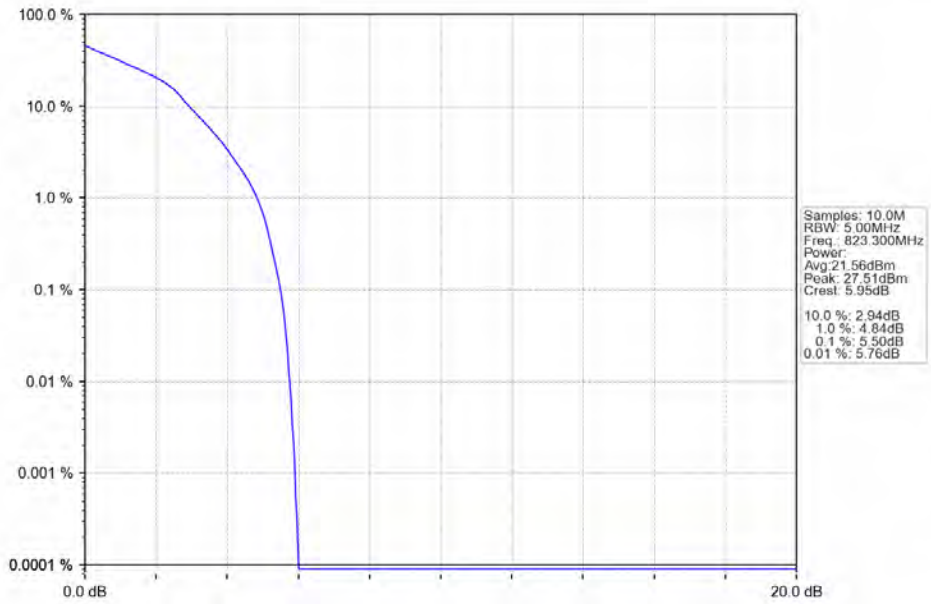
Band26a_1.4MHz_64QAM_LCH_814.7MHz_RB_6_0_NTNV



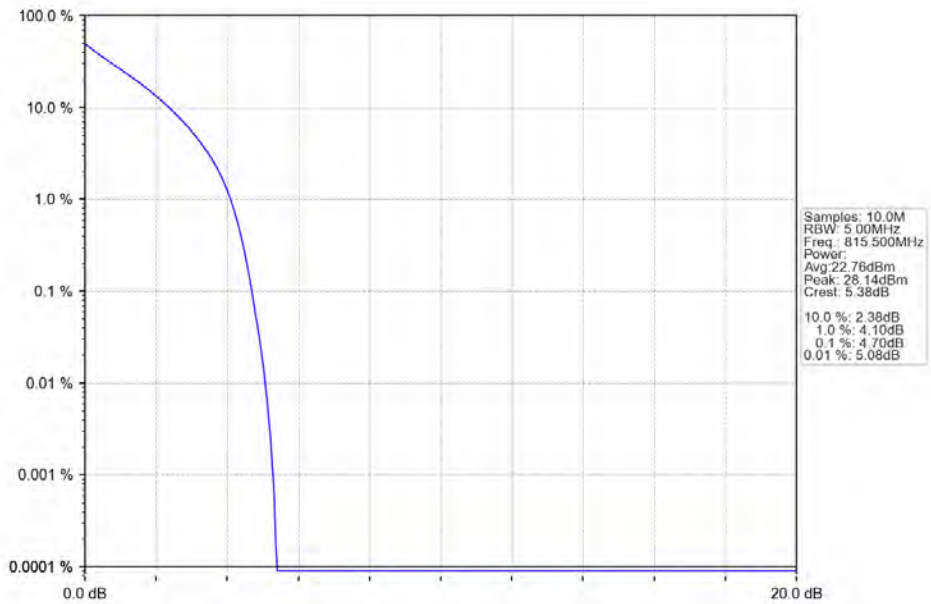
Band26a_1.4MHz_64QAM_MCH_819MHz_RB_6_0_NTNV

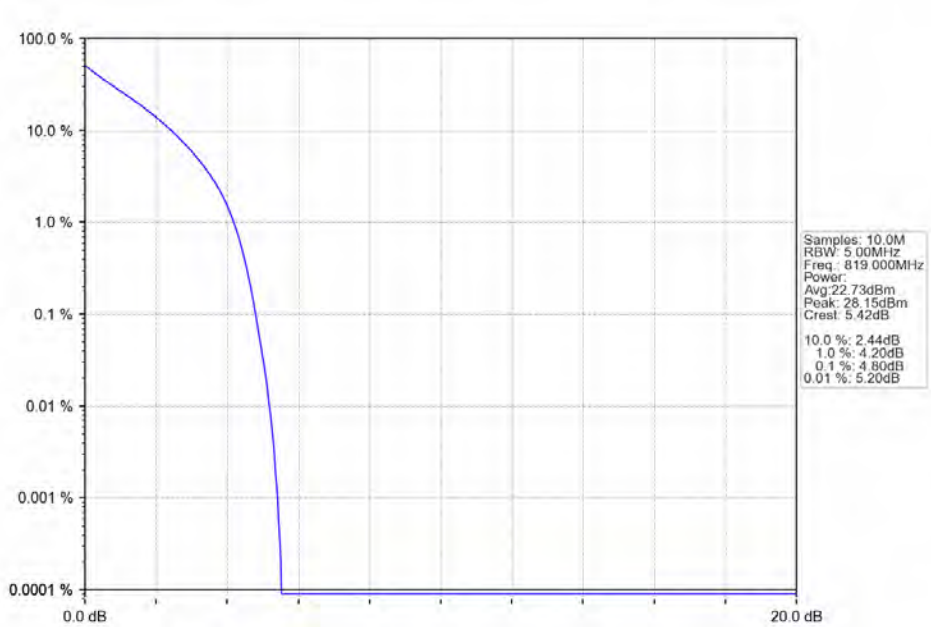


Band26a_1.4MHz_64QAM_HCH_823.3MHz_RB_6_0_NTNV

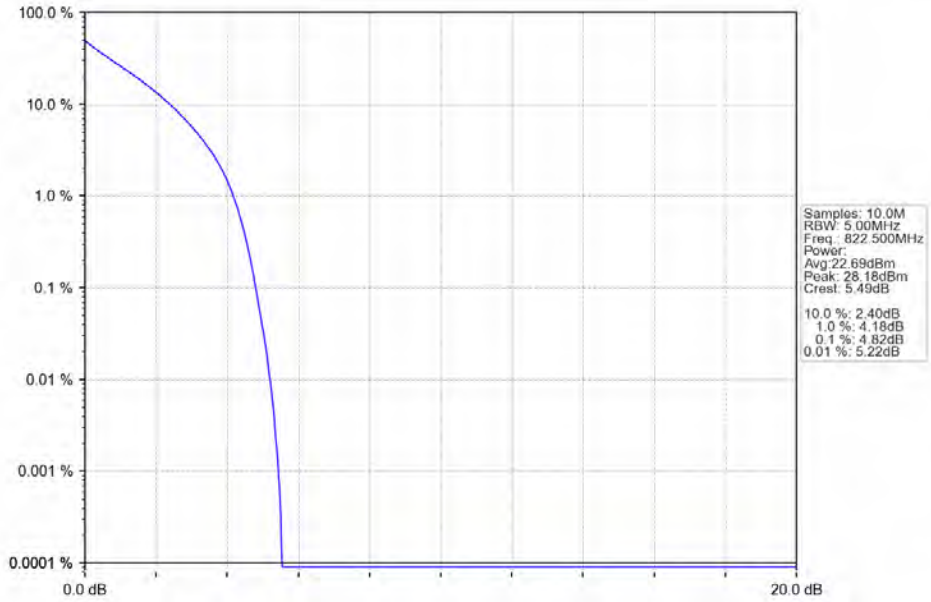


4.2.2 B26a_3MHz

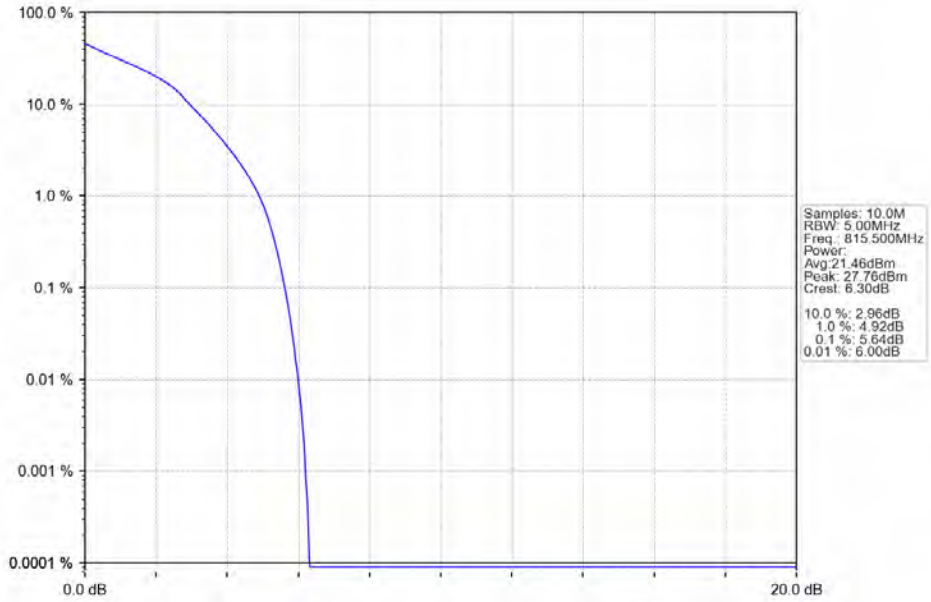
Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV


Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV


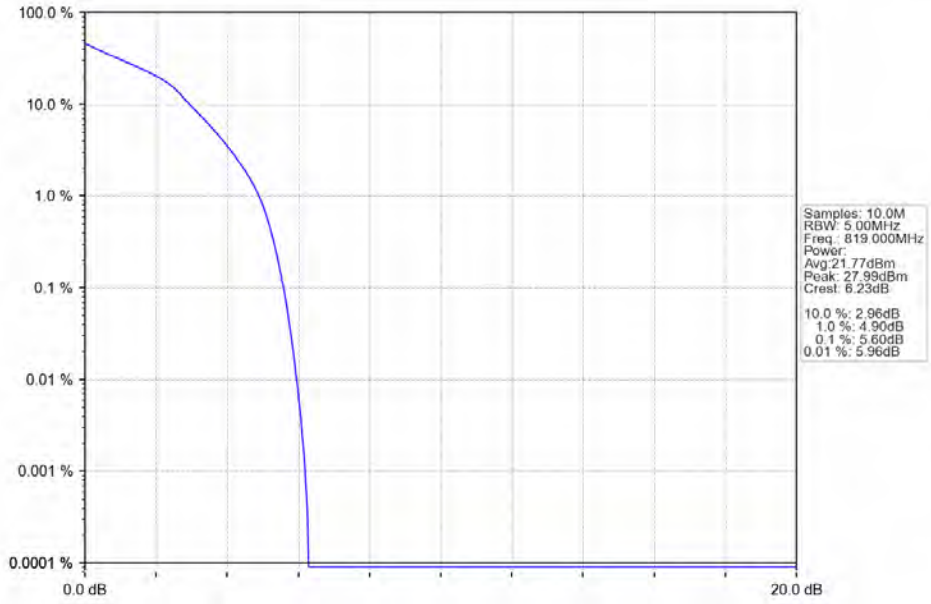
Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



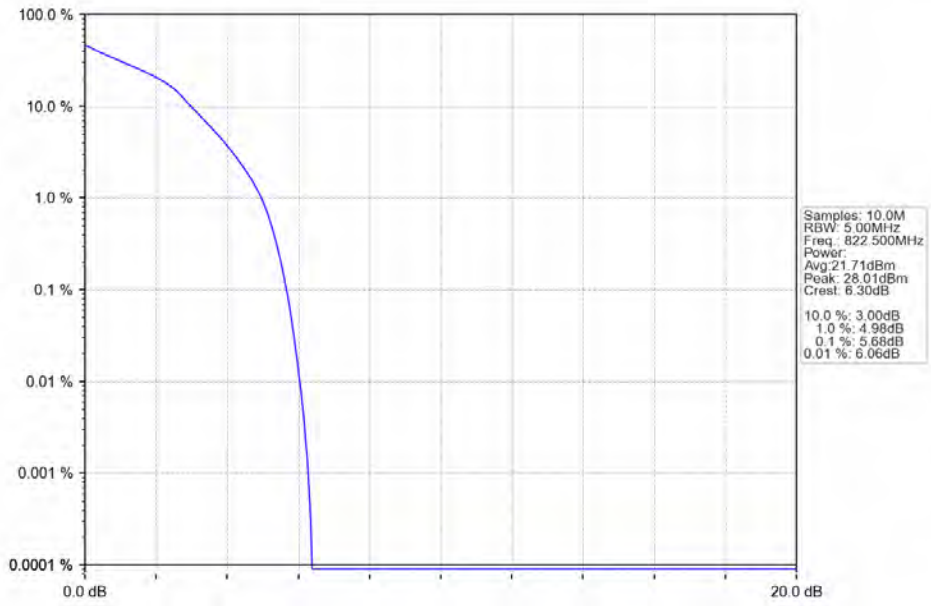
Band26a_3MHz_16QAM_LCH_815.5MHz_RB_15_0_NTNV



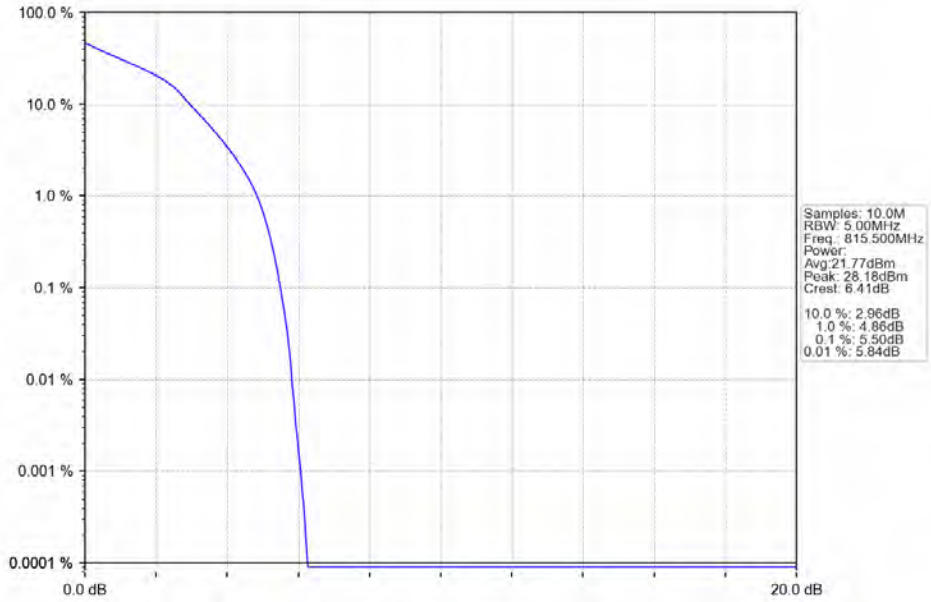
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



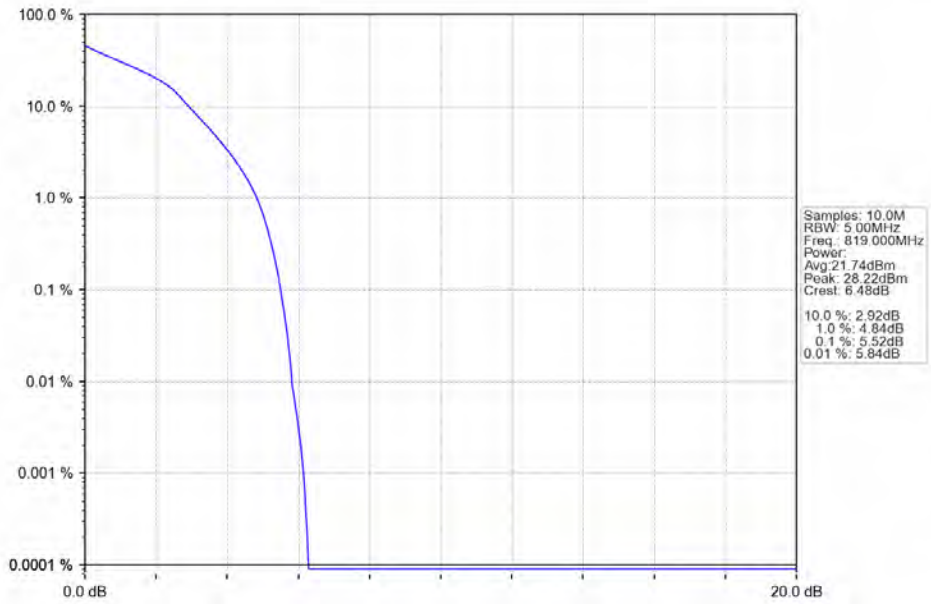
Band26a_3MHz_16QAM_HCH_822.5MHz_RB_15_0_NTNV



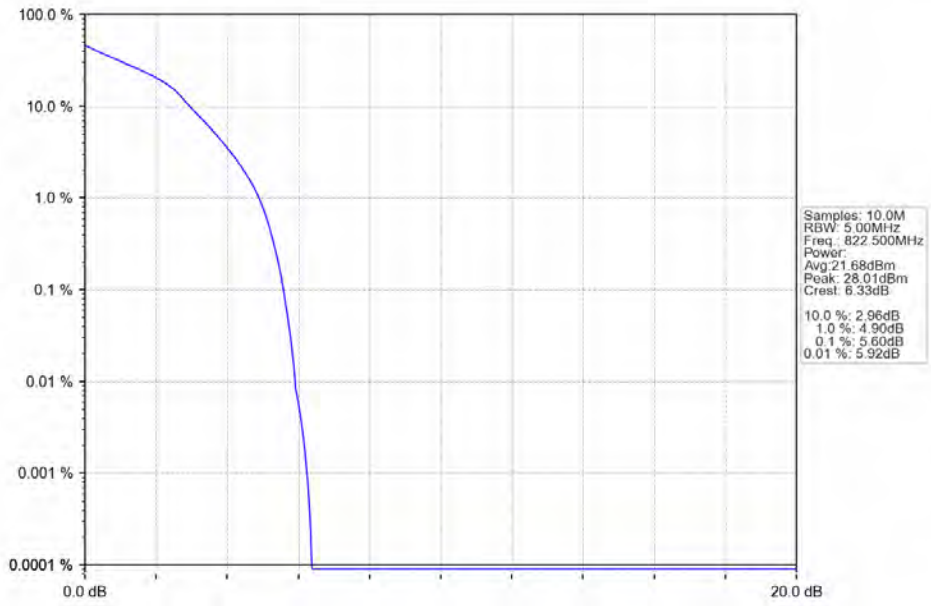
Band26a_3MHz_64QAM_LCH_815.5MHz_RB_15_0_NTNV



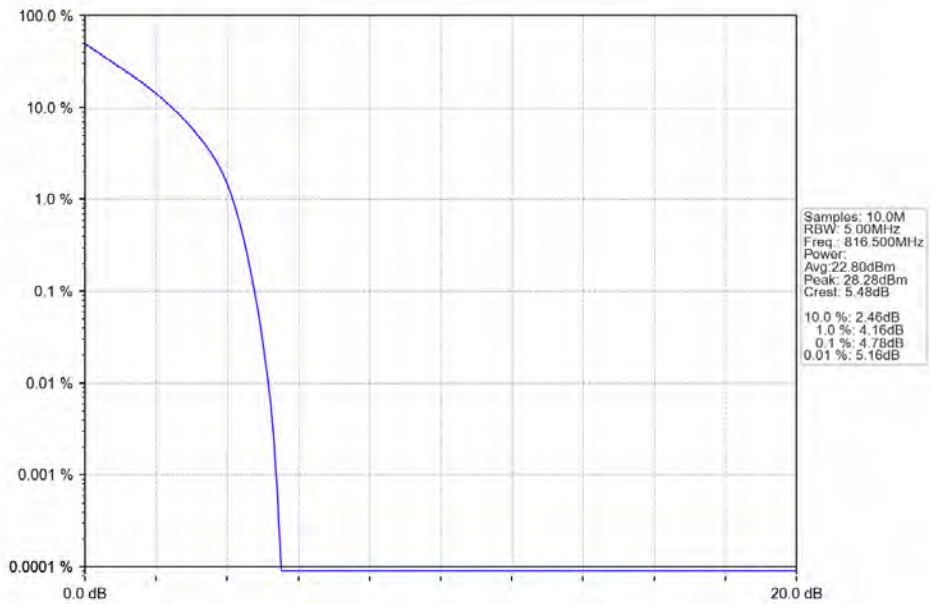
Band26a_3MHz_64QAM_MCH_819MHz_RB_15_0_NTNV

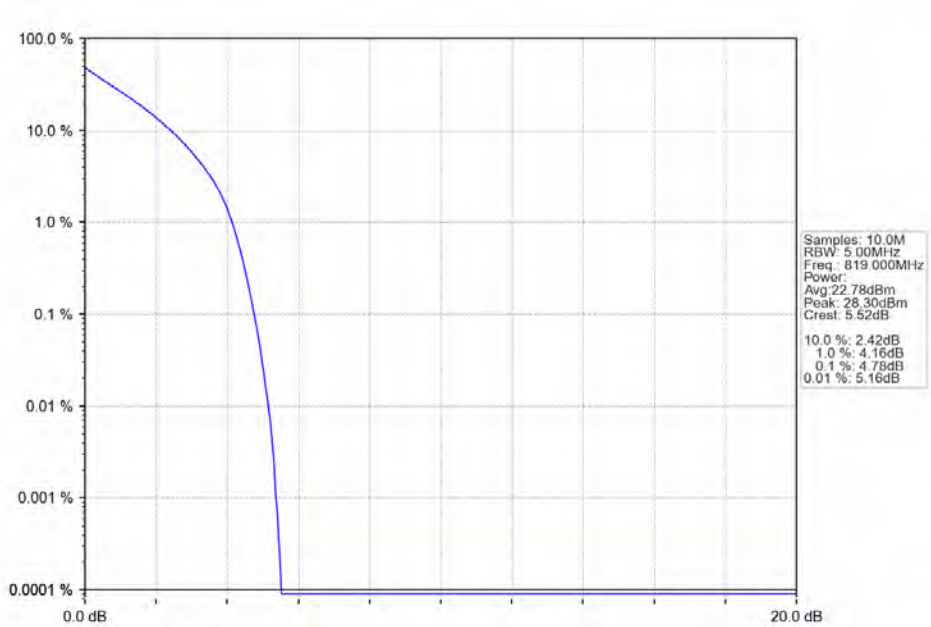


Band26a_3MHz_64QAM_HCH_822.5MHz_RB_15_0_NTNV

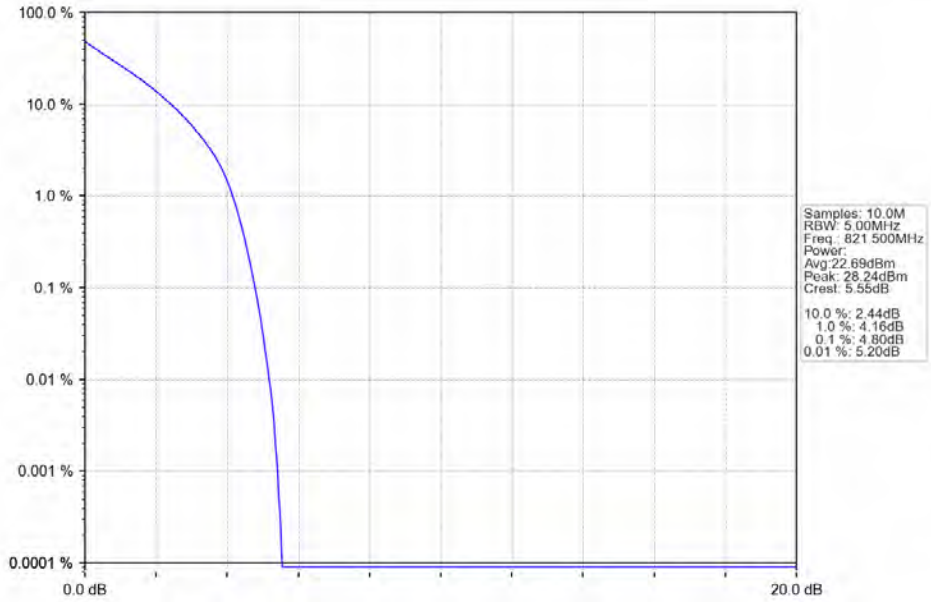


4.2.3 B26a_5MHz

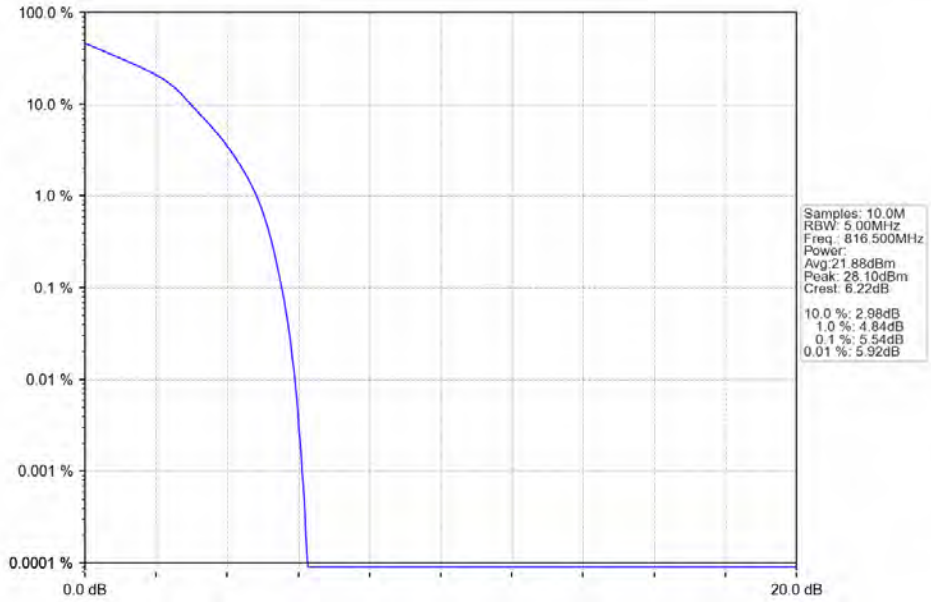
Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV


Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV


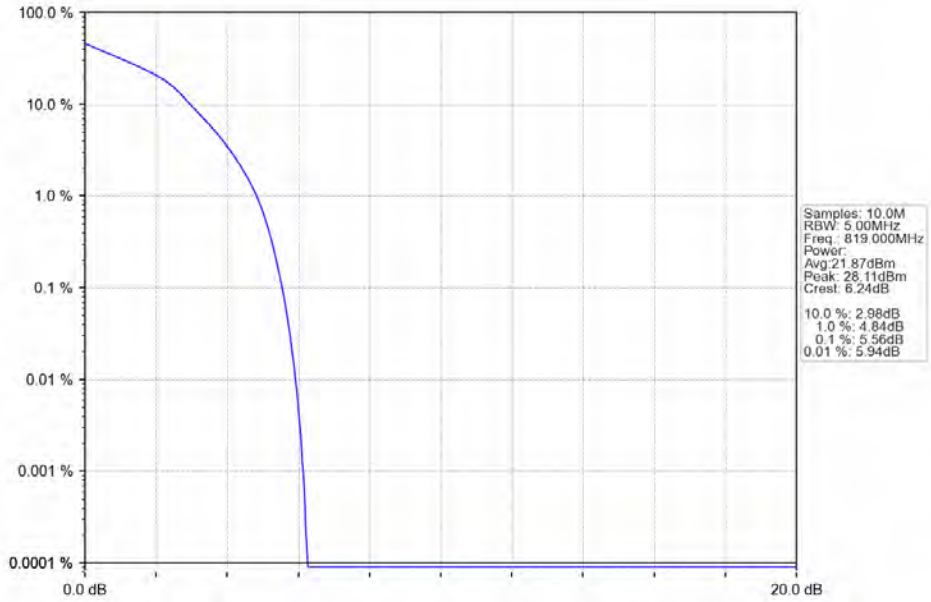
Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



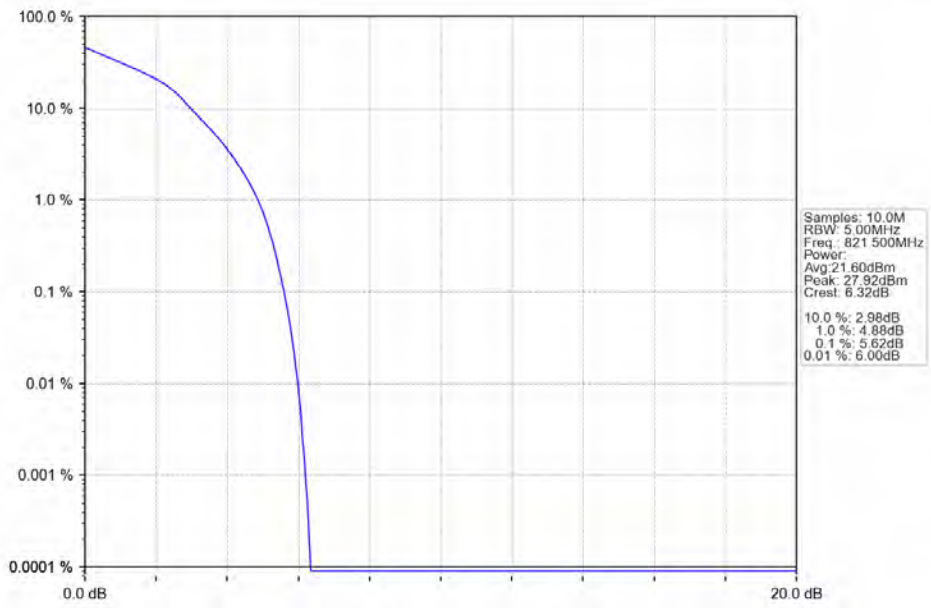
Band26a_5MHz_16QAM_LCH_816.5MHz_RB_25_0_NTNV



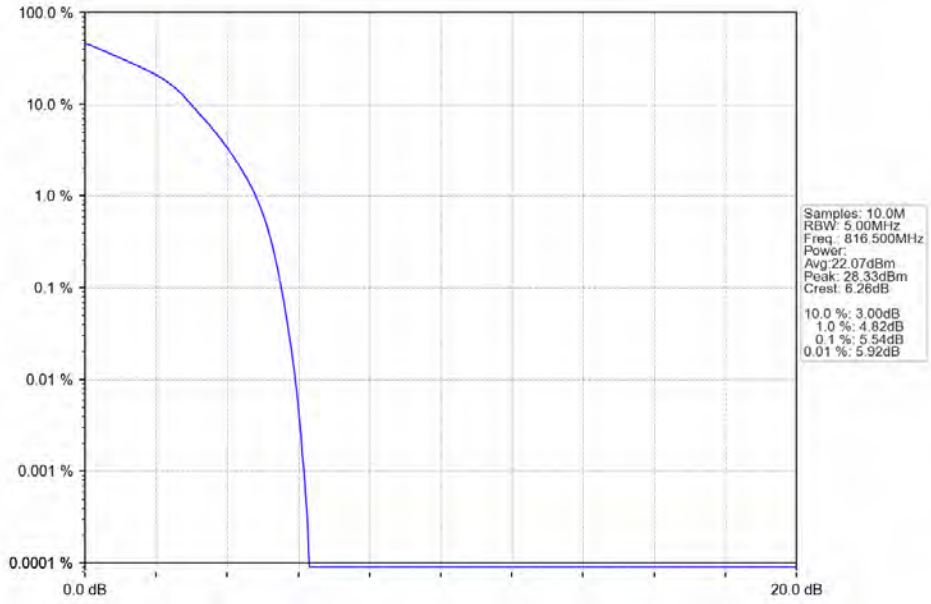
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



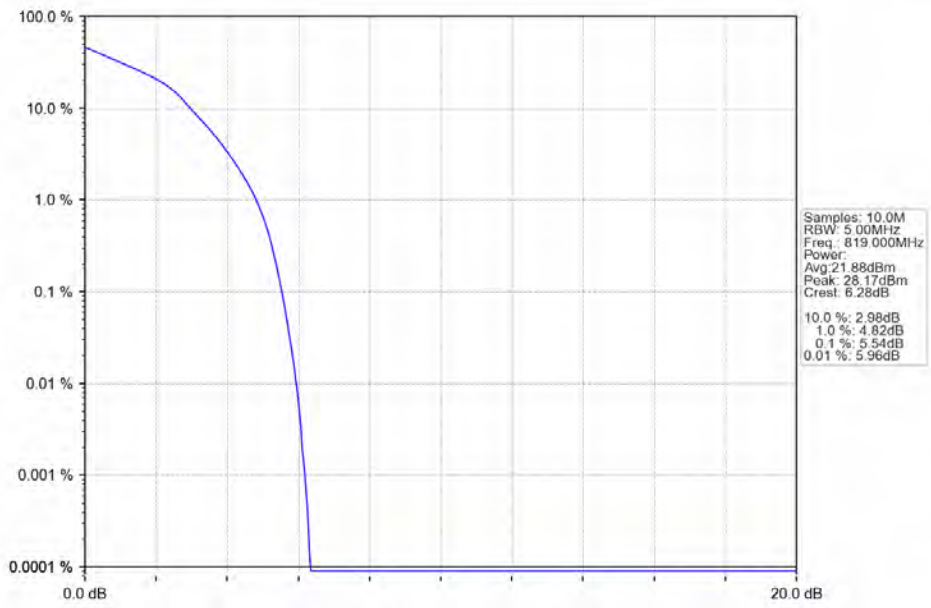
Band26a_5MHz_16QAM_HCH_821.5MHz_RB_25_0_NTNV



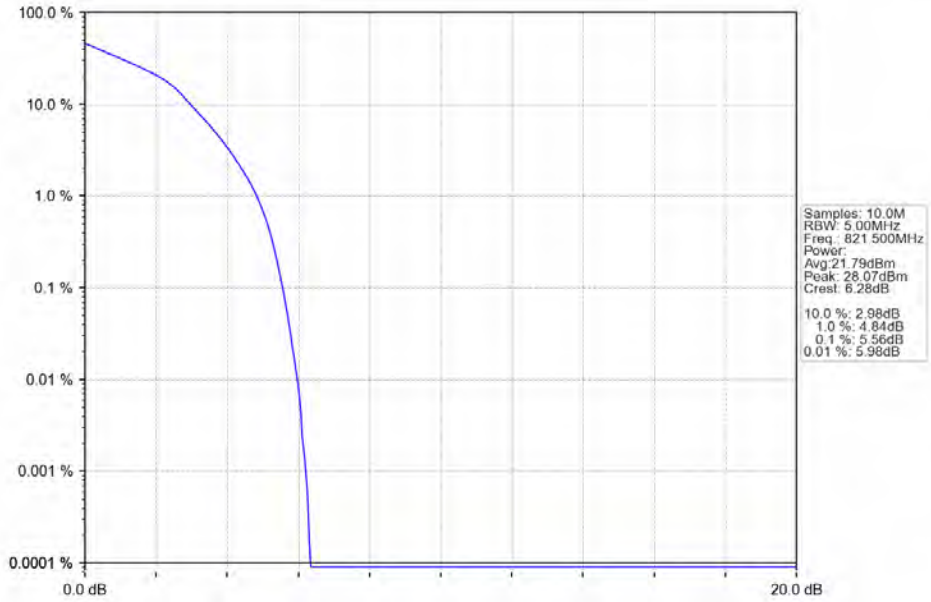
Band26a_5MHz_64QAM_LCH_816.5MHz_RB_25_0_NTNV



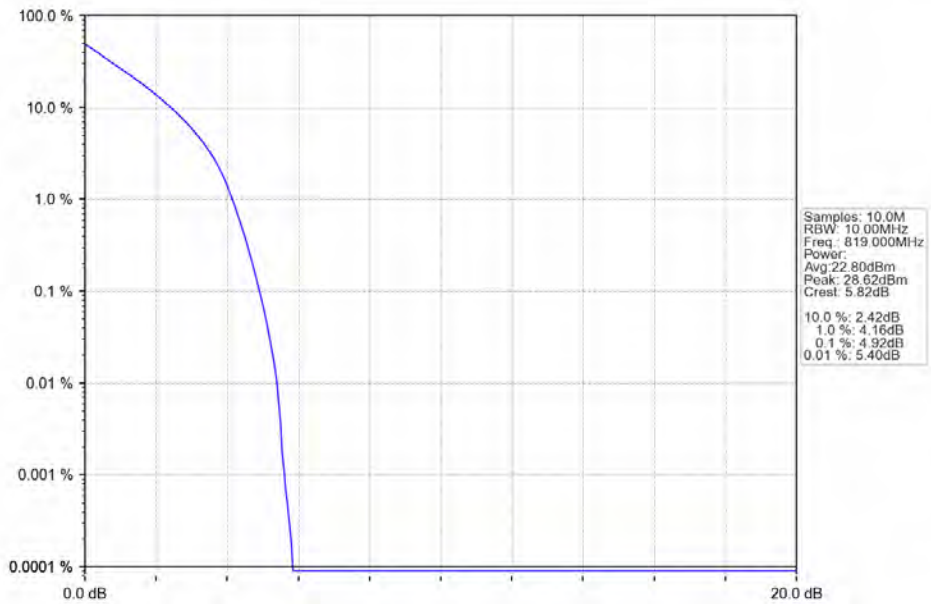
Band26a_5MHz_64QAM_MCH_819MHz_RB_25_0_NTNV

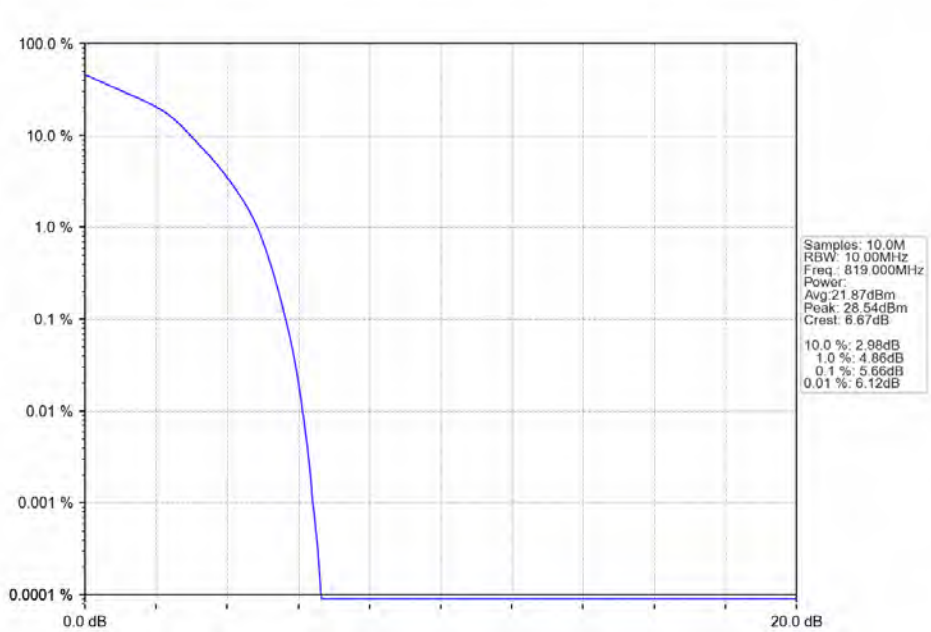


Band26a_5MHz_64QAM_HCH_821.5MHz_RB_25_0_NTNV

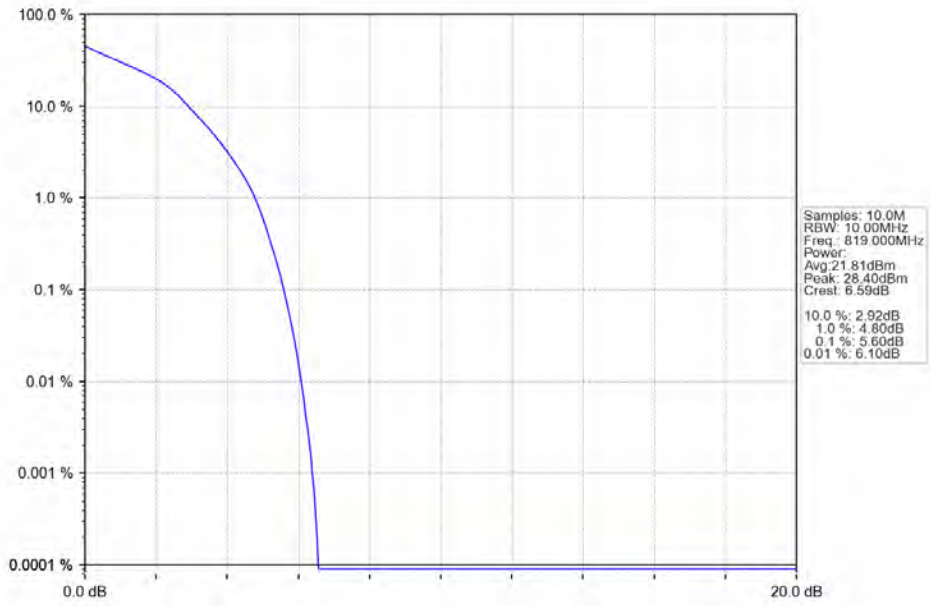


4.2.4 B26a_10MHz

Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV


Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV


Band26a_10MHz_64QAM_MCH_819MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	823.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	822.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B26a_5MHz

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	821.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

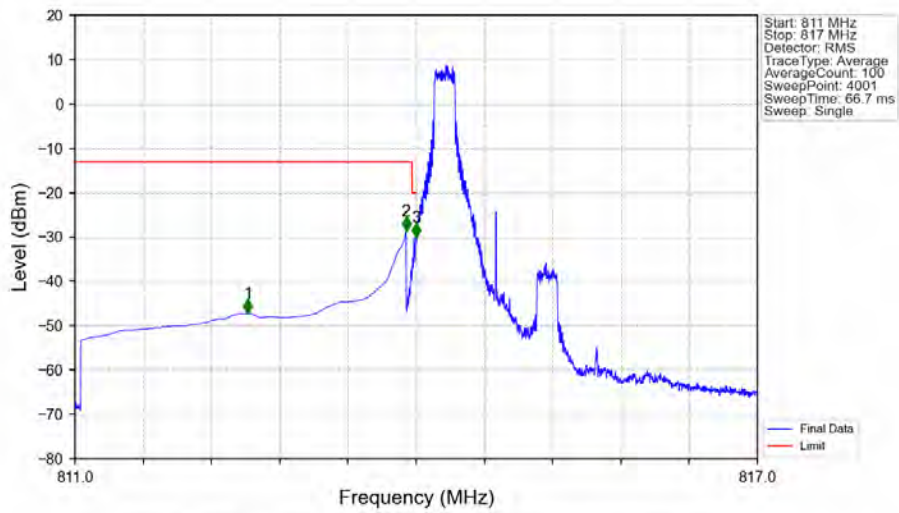
5.1.4 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	819	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

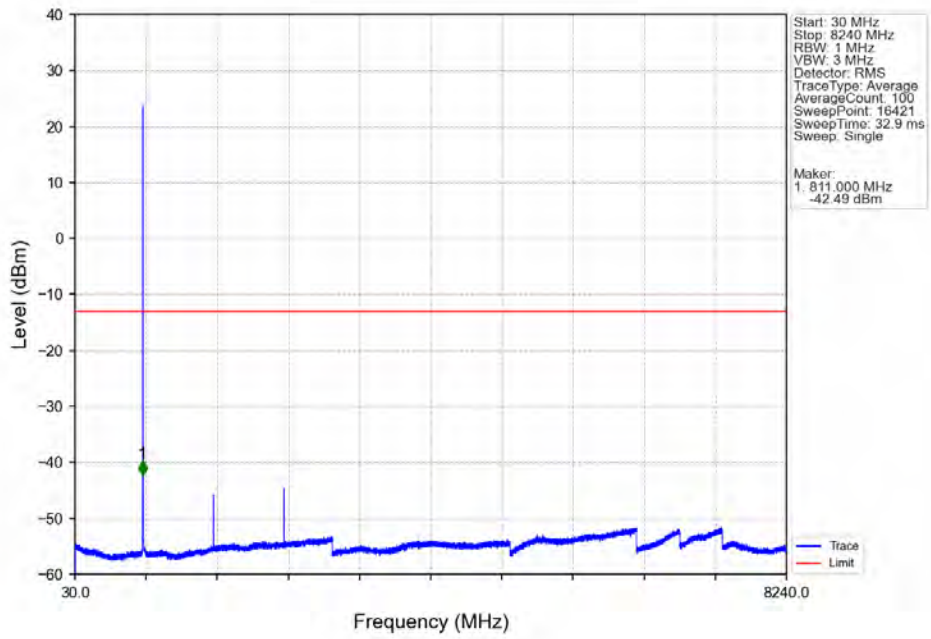
5.2.1 B26a_1.4MHz

Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_1_0_NTNV

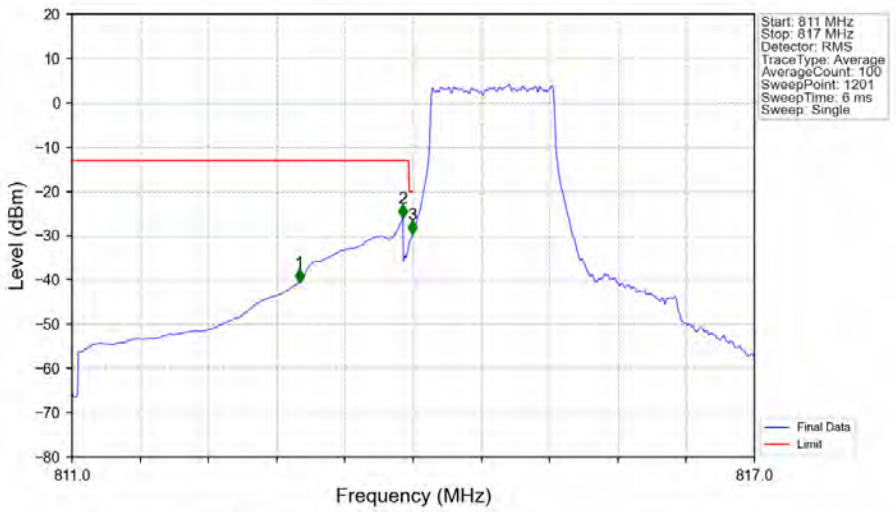


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.519	-47.18	-13	Pass
813	813.963	0.1	CHP	2	813.912	-28.52	-13	Pass
813.963	814	0.003	/	3	813.999	-29.98	-20	Pass
814	817	0.003	/	/	/	/	/	/

Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_1_0_NTNV

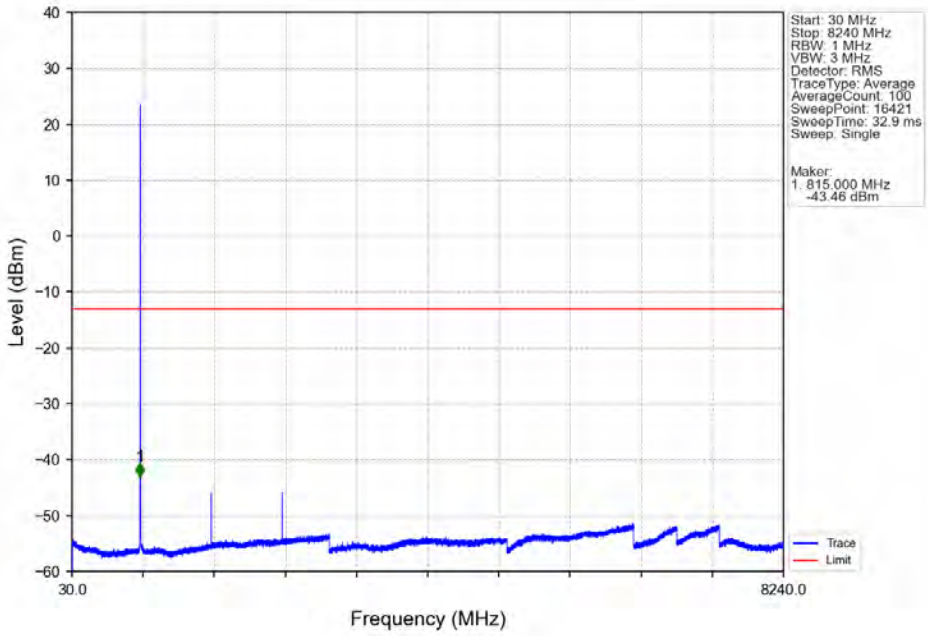


Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV

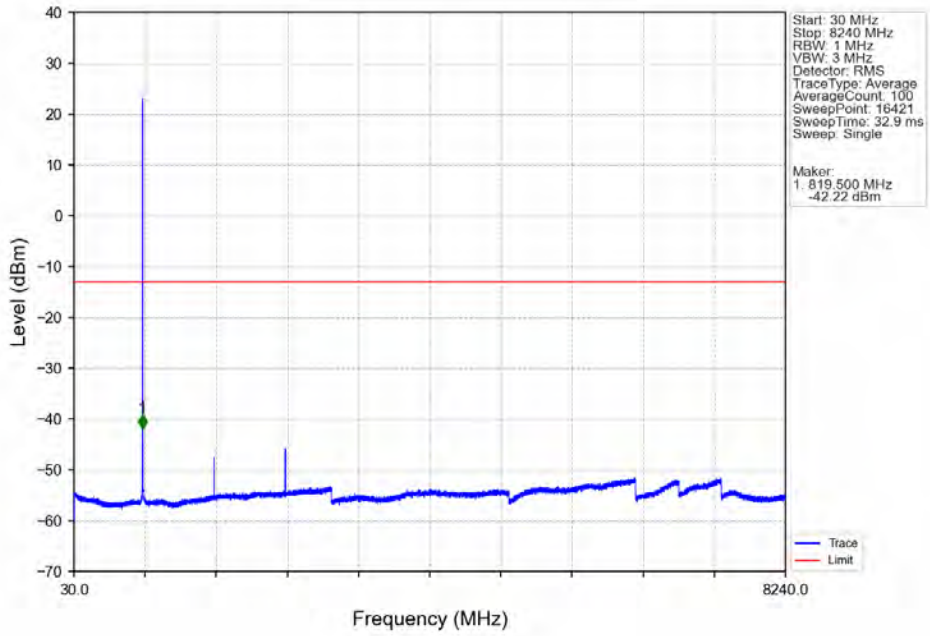


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	813.000	-40.60	-13	Pass
813	813.963	0.1	CHP	2	813.910	-25.96	-13	Pass
813.963	814	0.013	CHP	3	813.995	-29.63	-20	Pass
814	817	0.013	CHP	/	/	/	/	/

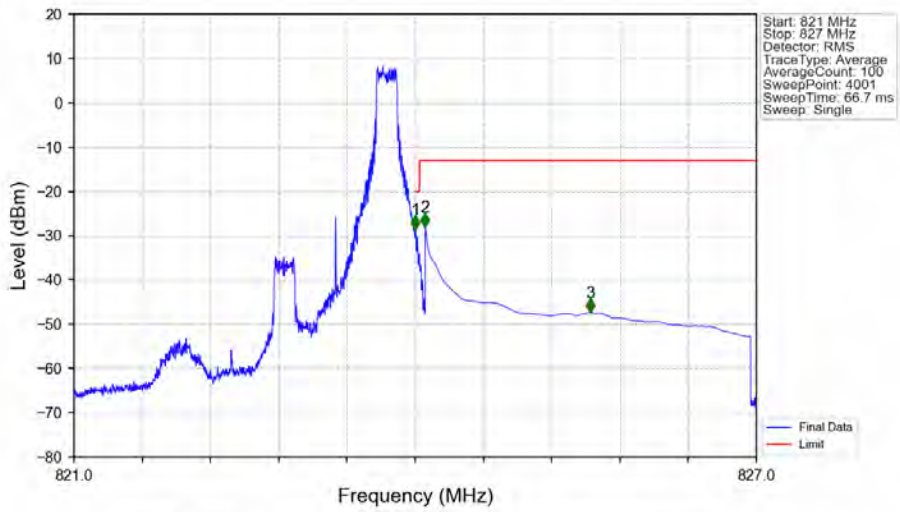
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_0_NTNV

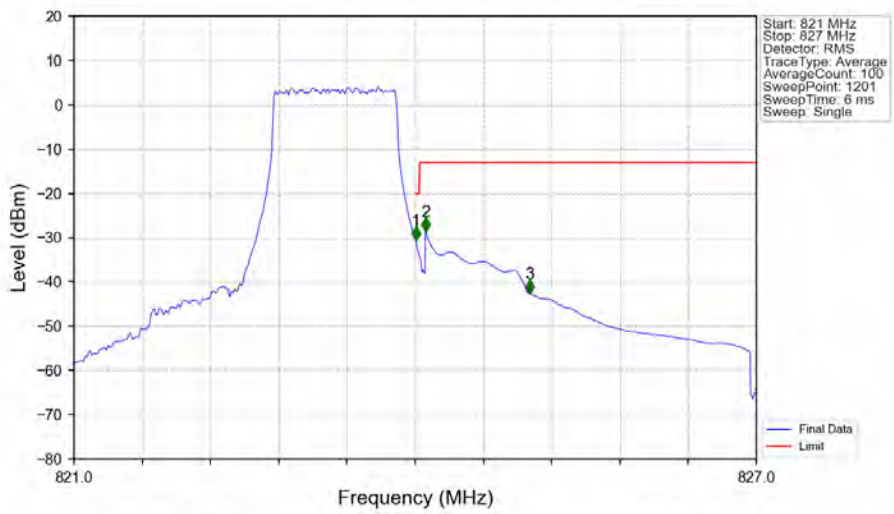


Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.003	-28.58	-20	Pass
824.038	825	0.1	CHP	2	824.088	-28.07	-13	Pass
825	827	0.1	CHP	3	825.542	-47.37	-13	Pass

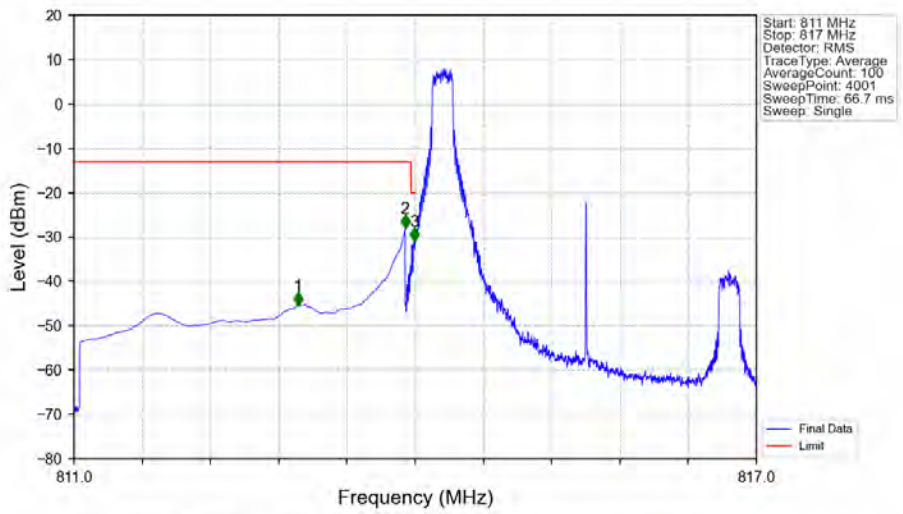
Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.013	CHP	/	/	/	/	/
824	824.038	0.013	CHP	1	824.005	-30.50	-20	Pass
824.038	825	0.1	CHP	2	824.090	-28.59	-13	Pass
825	827	0.1	CHP	3	825.005	-42.65	-13	Pass

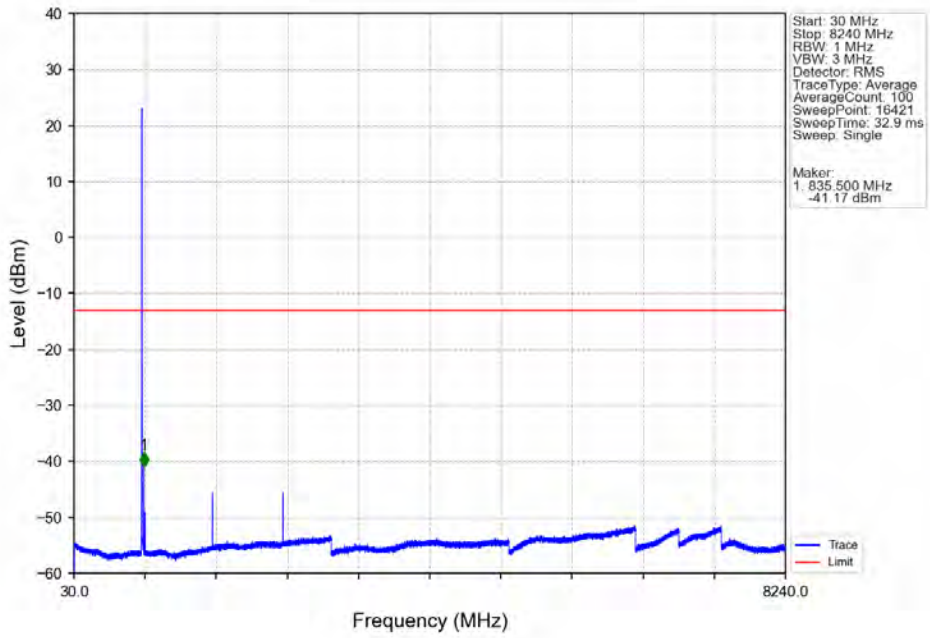
5.2.2 B26a_3MHz

Band26a_3MHz_QPSK_LCH_815.5MHz_RB_1_0_NTNV

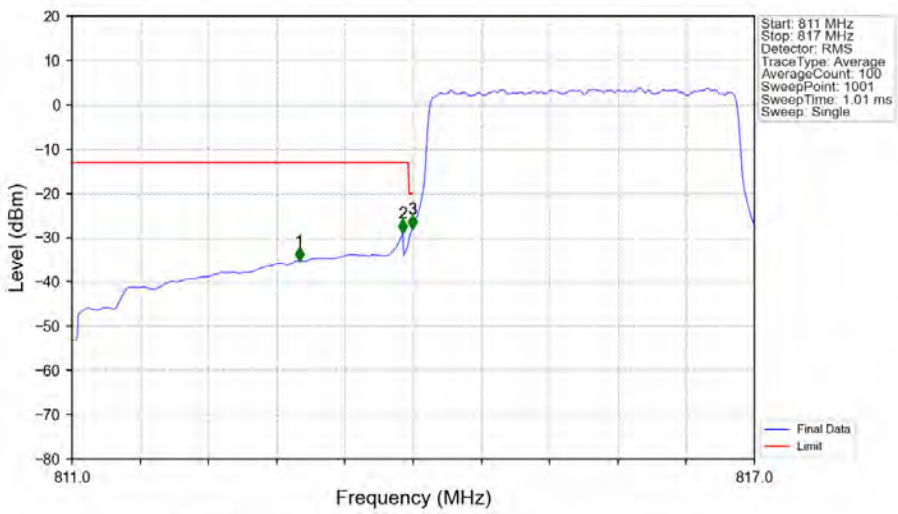


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.971	-45.48	-13	Pass
813	813.963	0.1	CHP	2	813.912	-28.00	-13	Pass
813.963	814	0.003	/	3	813.991	-30.96	-20	Pass
814	817	0.003	/	/	/	/	/	/

Band26a_3MHz_QPSK_LCH_815.5MHz_RB_1_0_NTNV

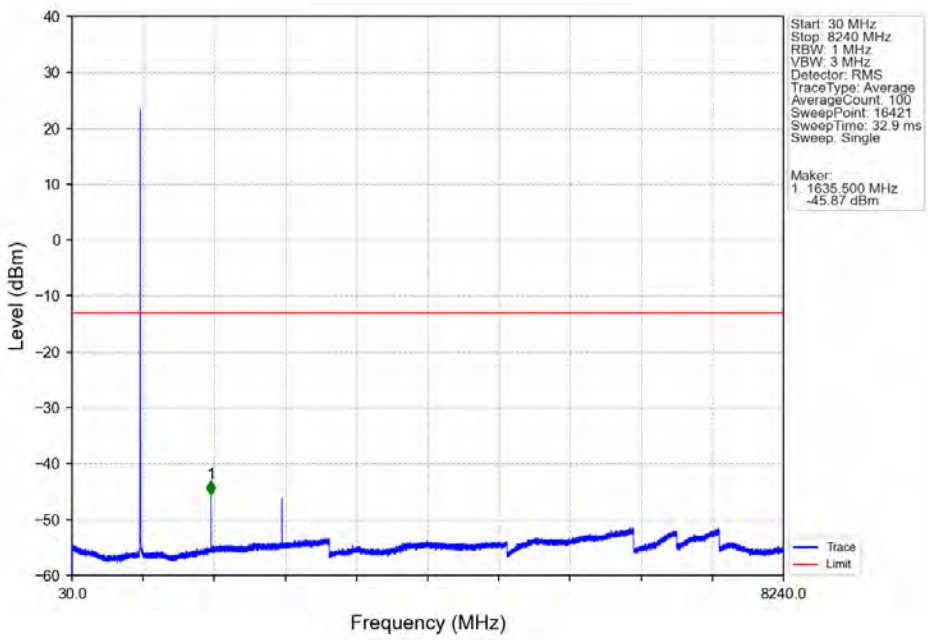


Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV

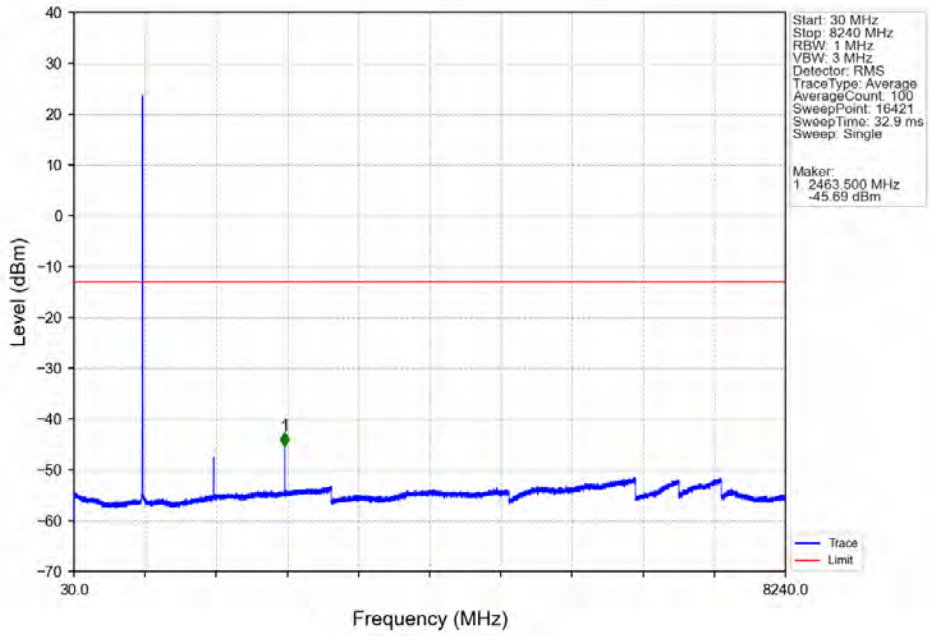


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.998	-35.26	-13	Pass
813	813.963	0.1	CHP	2	813.910	-28.87	-13	Pass
813.963	814	0.031	CHP	3	813.994	-27.97	-20	Pass
814	817	0.031	CHP	/	/	/	/	/

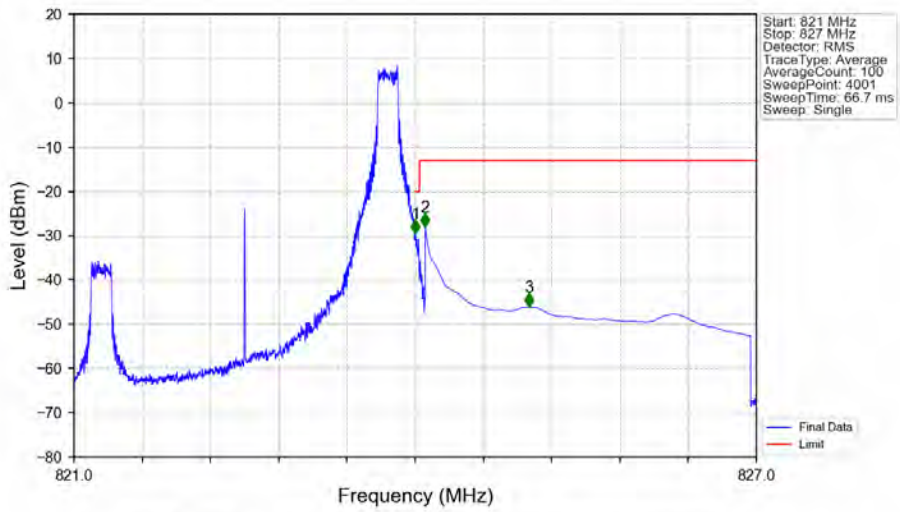
Band26a_3MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_0_NTNV

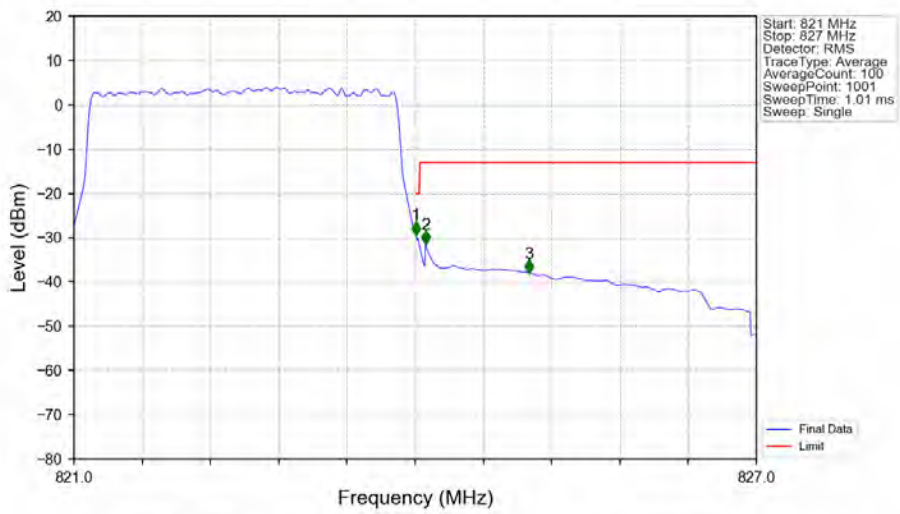


Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.003	-29.52	-20	Pass
824.038	825	0.1	CHP	2	824.088	-28.10	-13	Pass
825	827	0.1	CHP	3	825.000	-46.08	-13	Pass

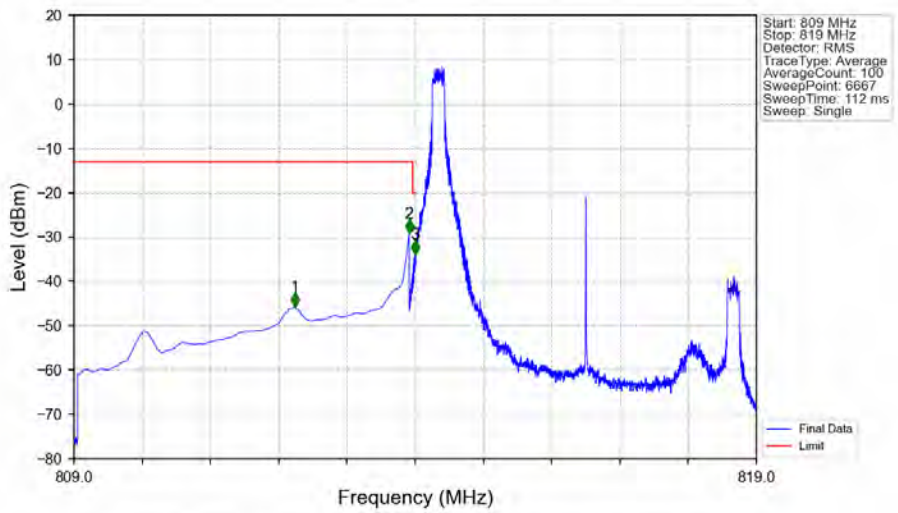
Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.031	CHP	/	/	/	/	/
824	824.038	0.031	CHP	1	824.006	-29.40	-20	Pass
824.038	825	0.1	CHP	2	824.090	-31.53	-13	Pass
825	827	0.1	CHP	3	825.002	-38.00	-13	Pass

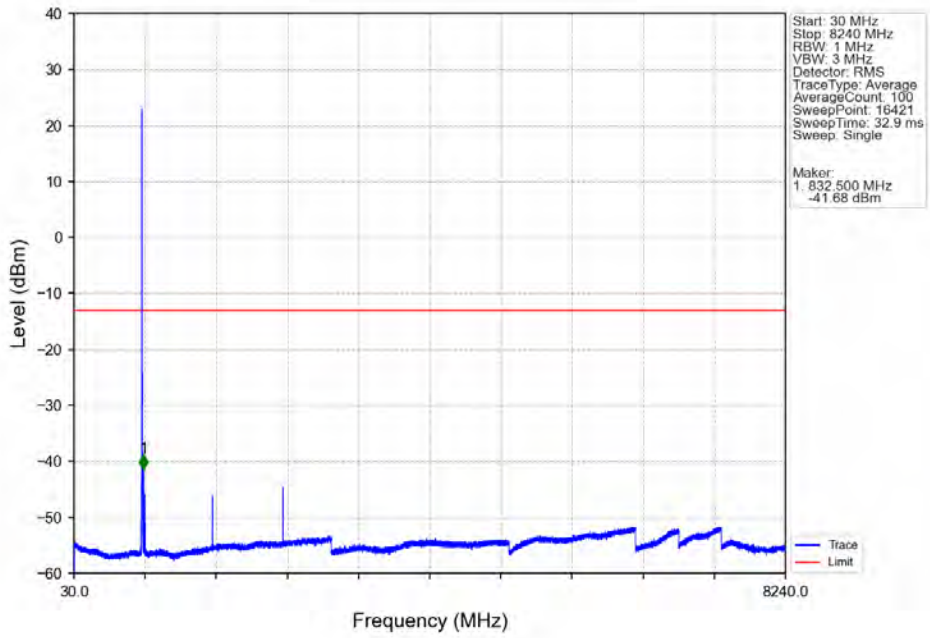
5.2.3 B26a_5MHz

Band26a_5MHz_QPSK_LCH_816.5MHz_RB_1_0_NTNV

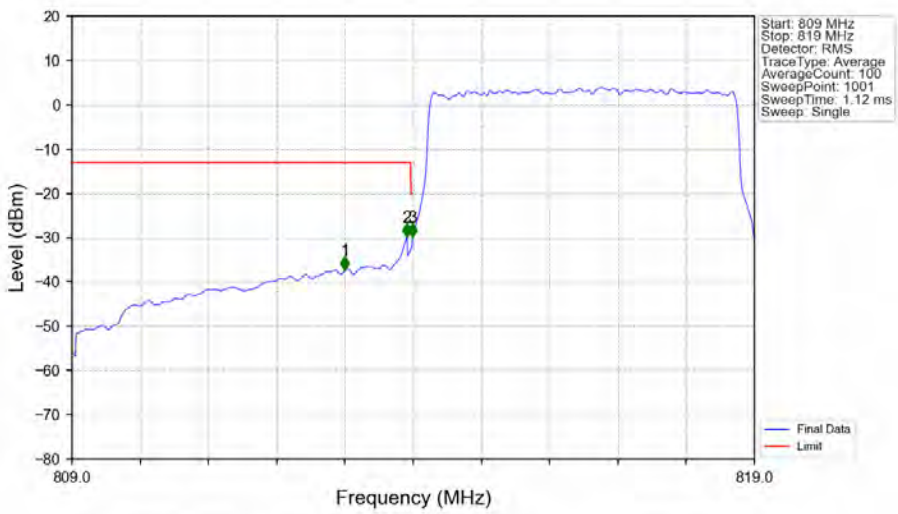


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.237	-45.70	-13	Pass
813	813.963	0.1	CHP	2	813.911	-29.19	-13	Pass
813.963	814	0.003	/	3	813.999	-33.95	-20	Pass
814	819	0.003	/	/	/	/	/	/

Band26a_5MHz_QPSK_LCH_816.5MHz_RB_1_0_NTNV

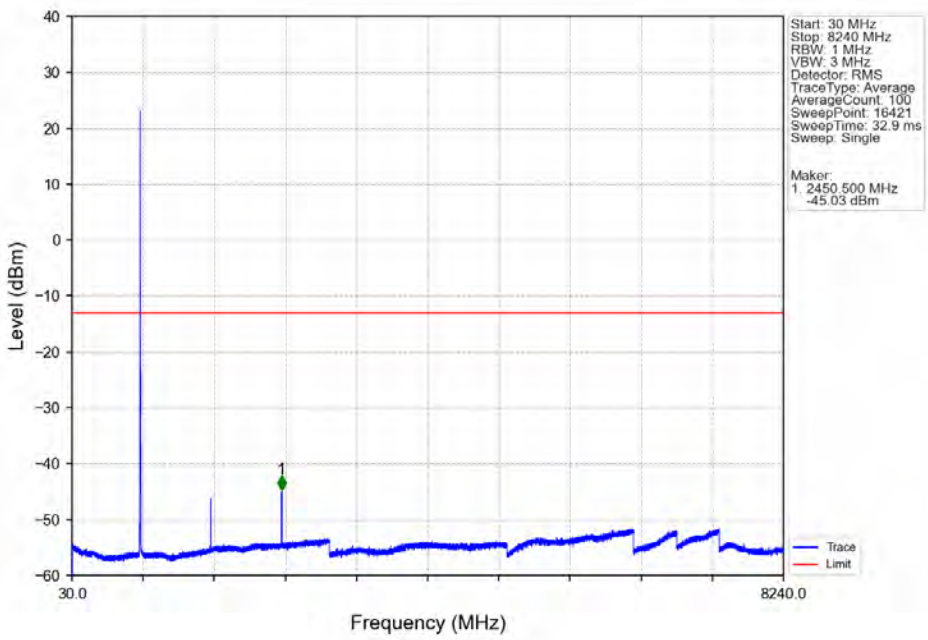


Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV

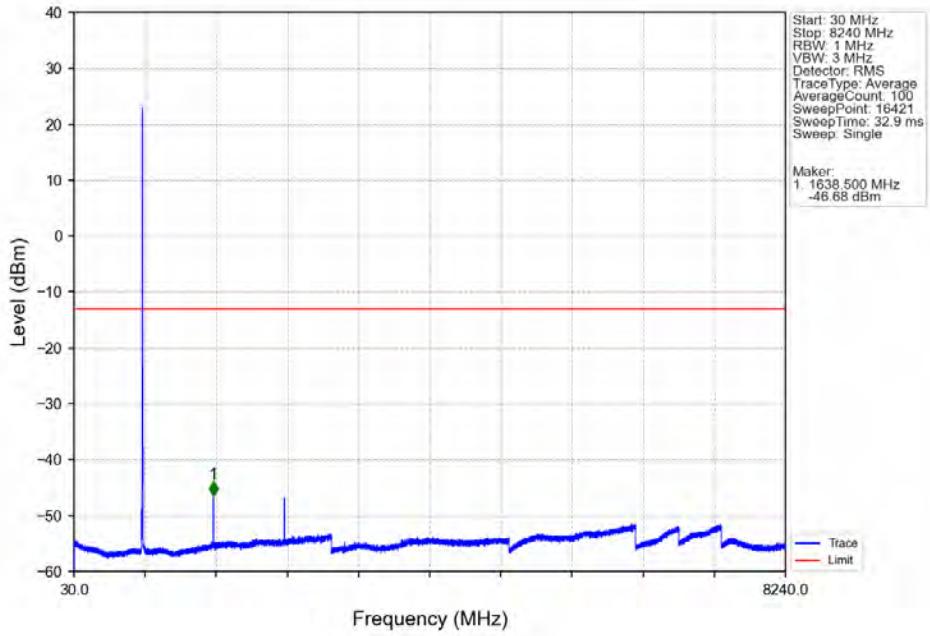


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	813.000	-37.30	-13	Pass
813	813.963	0.1	CHP	2	813.910	-29.81	-13	Pass
813.963	814	0.05	CHP	3	813.990	-29.89	-20	Pass
814	819	0.05	CHP	/	/	/	/	/

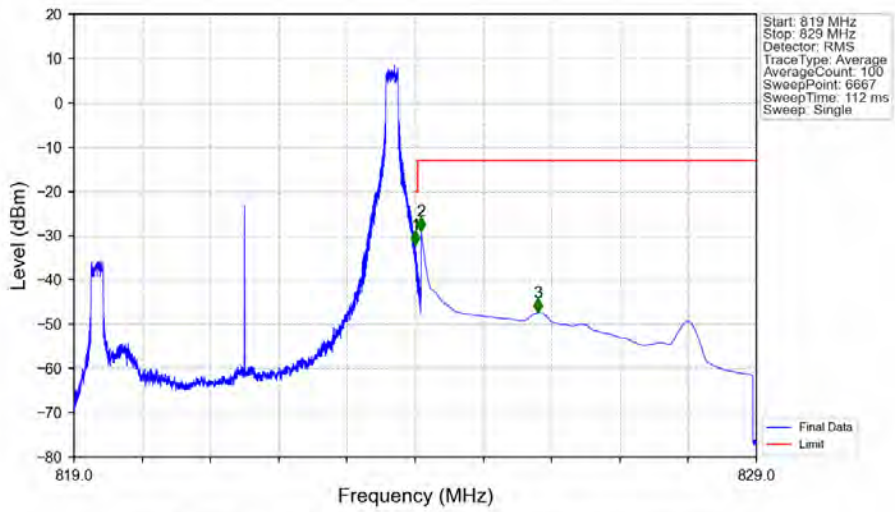
Band26a_5MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_0_NTNV

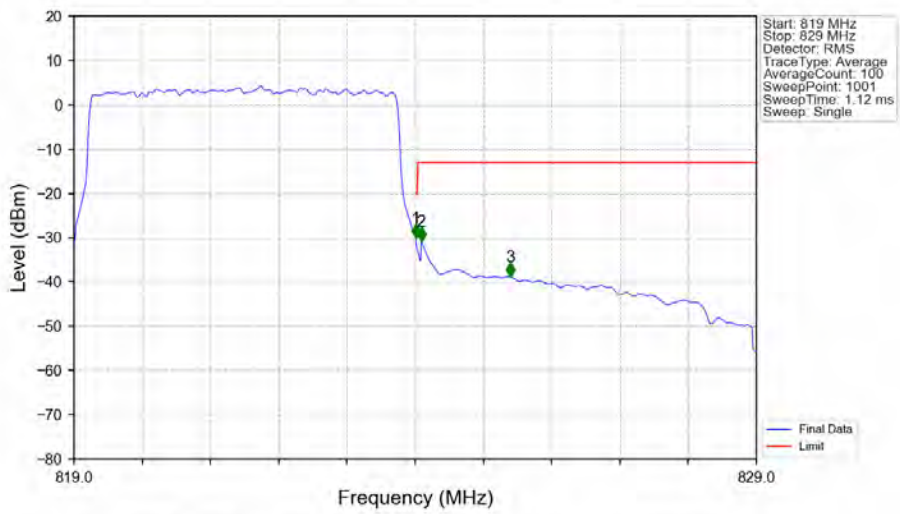


Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-32.03	-20	Pass
824.038	825	0.1	CHP	2	824.089	-28.97	-13	Pass
825	829	0.1	CHP	3	825.791	-47.34	-13	Pass

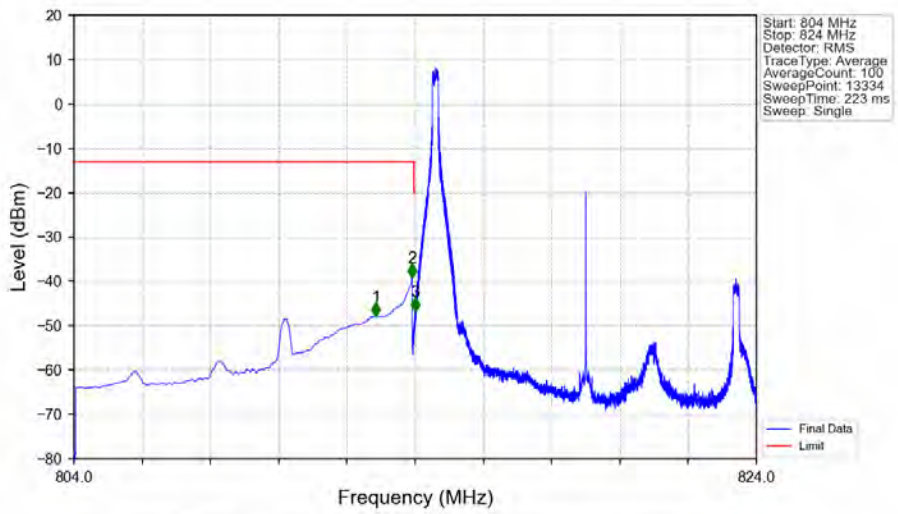
Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.05	CHP	/	/	/	/	/
824	824.038	0.05	CHP	1	824.010	-30.08	-20	Pass
824.038	825	0.1	CHP	2	824.090	-30.78	-13	Pass
825	829	0.1	CHP	3	825.400	-38.75	-13	Pass

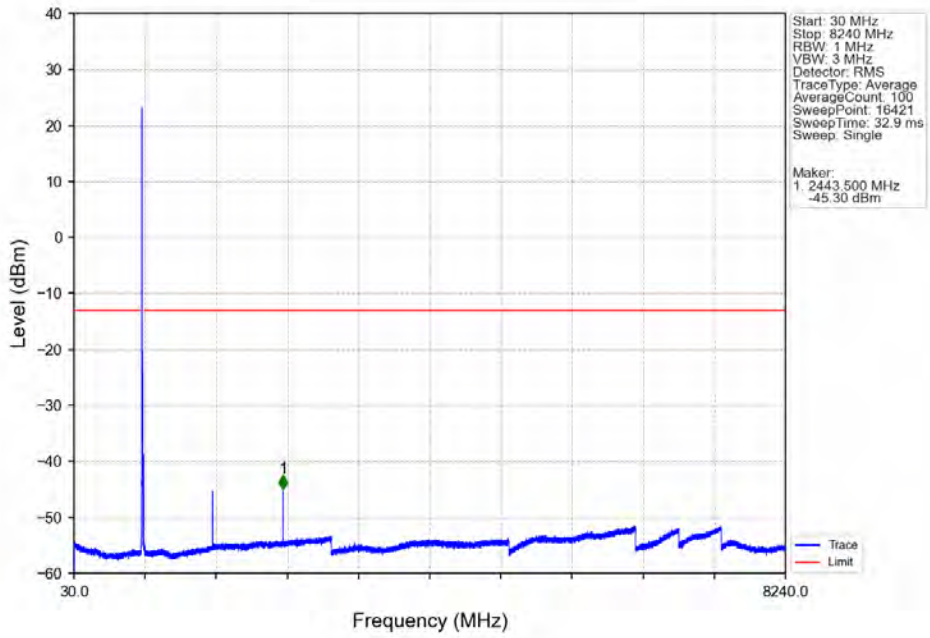
5.2.4 B26a_10MHz

Band26a_10MHz_QPSK_LCH_819MHz_RB_1_0_NTNV

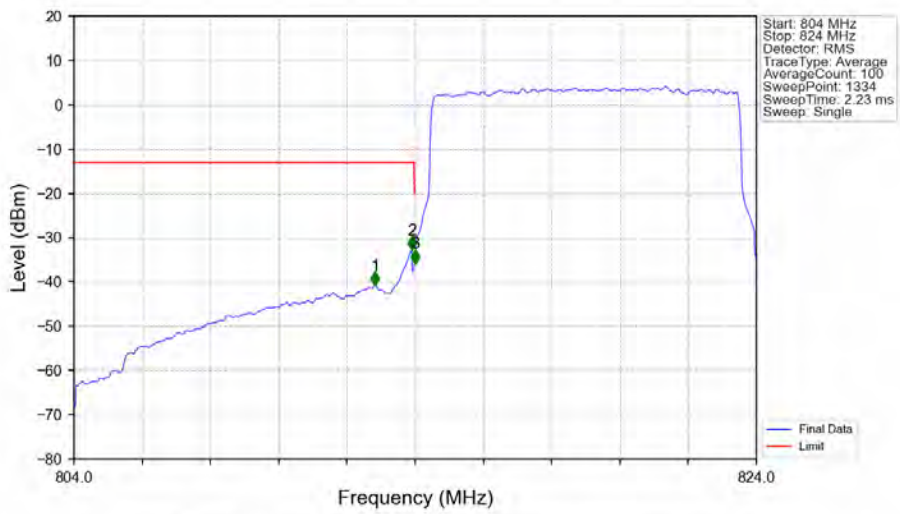


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	CHP	1	812.849	-47.84	-13	Pass
813	813.963	0.1	CHP	2	813.912	-39.09	-13	Pass
813.963	814	0.003	/	3	813.998	-46.78	-20	Pass
814	824	0.003	/	/	/	/	/	/

Band26a_10MHz_QPSK_LCH_819MHz_RB_1_0_NTNV

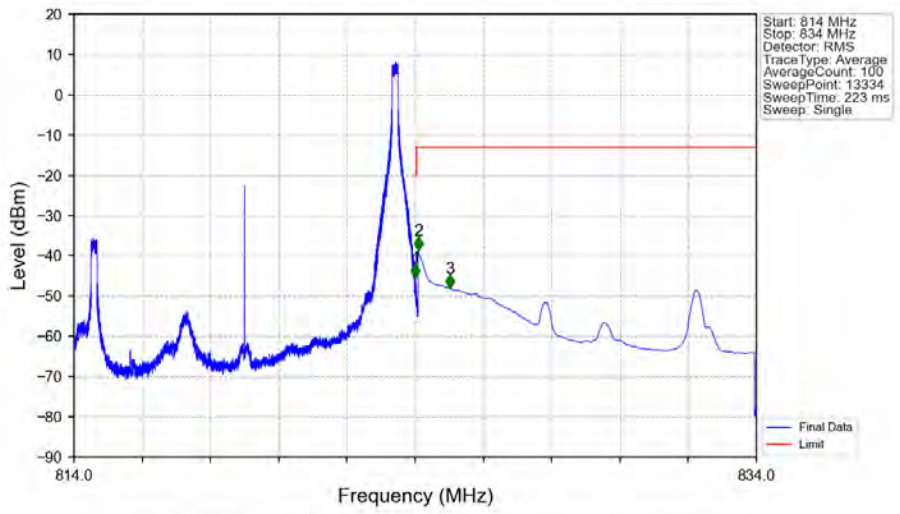


Band26a_10MHz_QPSK_LCH_819MHz_RB_50_0_NTNV



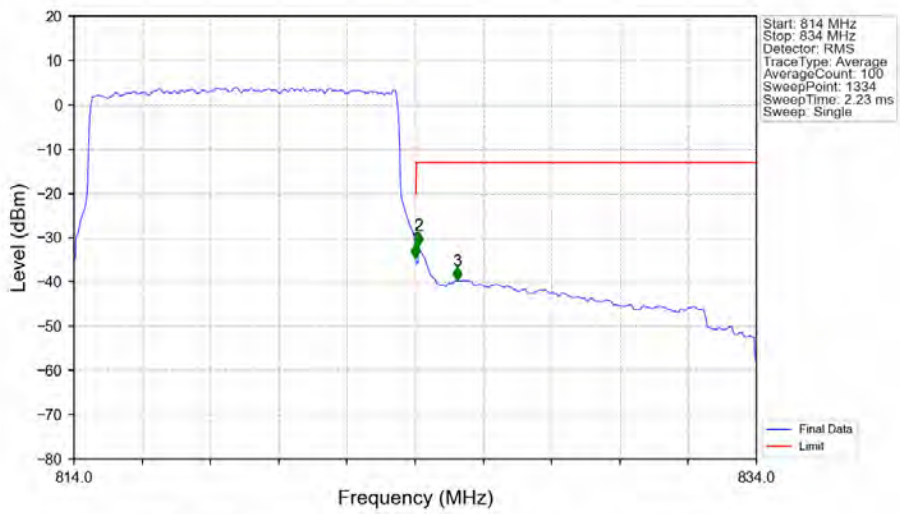
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	CHP	1	812.822	-40.76	-13	Pass
813	813.963	0.1	CHP	2	813.902	-32.81	-13	Pass
813.963	814	0.099	CHP	3	813.992	-35.77	-20	Pass
814	824	0.099	CHP	/	/	/	/	/

Band26a_10MHz_QPSK_HCH_819MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.004	-45.45	-20	Pass
824.038	825	0.1	CHP	2	824.088	-38.58	-13	Pass
825	834	0.1	CHP	3	825.006	-48.04	-13	Pass

Band26a_10MHz_QPSK_HCH_819MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.099	CHP	/	/	/	/	/
824	824.038	0.099	CHP	1	824.008	-34.59	-20	Pass
824.038	825	0.1	CHP	2	824.098	-31.77	-13	Pass
825	834	0.1	CHP	3	825.223	-39.68	-13	Pass

6. Field Strength of Spurious Radiation

Test Band = LTE Band 26 90S_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.18	47.71	-49.87	25.54	-71.87	-13.00	58.87	Horizontal
2	2443.77	49.48	-49.22	27.10	-67.91	-13.00	54.91	Horizontal
3	3258.36	49.36	-48.63	28.31	-66.22	-13.00	53.22	Horizontal
4	4072.95	48.09	-48.28	29.42	-66.04	-13.00	53.04	Horizontal
5	4887.54	49.58	-48.15	30.95	-62.88	-13.00	49.88	Horizontal
6	5702.13	50.31	-47.50	32.68	-59.77	-13.00	46.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.18	48.87	-49.87	25.54	-70.71	-13.00	57.71	Vertical
2	2443.77	49.52	-49.22	27.10	-67.87	-13.00	54.87	Vertical
3	3258.36	48.34	-48.63	28.31	-67.24	-13.00	54.24	Vertical
4	4072.95	48.10	-48.28	29.42	-66.03	-13.00	53.03	Vertical
5	4887.54	48.45	-48.15	30.95	-64.01	-13.00	51.01	Vertical
6	5702.13	49.93	-47.50	32.68	-60.15	-13.00	47.15	Vertical