

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	23.89	0.75	24.64	<=33.01	Pass
			24	23.87	0.75	24.62	<=33.01	Pass
		25	0	22.93	0.75	23.68	<=33.01	Pass
	2595	1	0	24.01	0.75	24.76	<=33.01	Pass
			24	23.86	0.75	24.61	<=33.01	Pass
		25	0	22.82	0.75	23.57	<=33.01	Pass
	2617.5	1	0	23.73	0.75	24.48	<=33.01	Pass
			24	23.70	0.75	24.45	<=33.01	Pass
		25	0	22.68	0.75	23.43	<=33.01	Pass
16QAM	2572.5	1	0	22.87	0.75	23.62	<=33.01	Pass
			24	22.86	0.75	23.61	<=33.01	Pass
		25	0	22.09	0.75	22.84	<=33.01	Pass
	2595	1	0	22.76	0.75	23.51	<=33.01	Pass
			24	22.77	0.75	23.52	<=33.01	Pass
		25	0	21.98	0.75	22.73	<=33.01	Pass
	2617.5	1	0	22.63	0.75	23.38	<=33.01	Pass
			24	22.75	0.75	23.50	<=33.01	Pass
		25	0	21.79	0.75	22.54	<=33.01	Pass
64QAM	2572.5	1	0	21.77	0.75	22.52	<=33.01	Pass
			24	22.05	0.75	22.80	<=33.01	Pass
		25	0	20.98	0.75	21.73	<=33.01	Pass
	2595	1	0	22.14	0.75	22.89	<=33.01	Pass
			24	21.97	0.75	22.72	<=33.01	Pass
		25	0	20.96	0.75	21.71	<=33.01	Pass
	2617.5	1	0	21.62	0.75	22.37	<=33.01	Pass
			24	21.81	0.75	22.56	<=33.01	Pass
		25	0	20.79	0.75	21.54	<=33.01	Pass
256QAM	2572.5	1	0	19.47	0.75	20.22	<=33.01	Pass
			24	19.25	0.75	20.00	<=33.01	Pass
		25	0	19.00	0.75	19.75	<=33.01	Pass
	2595	1	0	18.76	0.75	19.51	<=33.01	Pass
			24	18.73	0.75	19.48	<=33.01	Pass
		25	0	18.99	0.75	19.74	<=33.01	Pass
	2617.5	1	0	18.85	0.75	19.60	<=33.01	Pass
			24	18.73	0.75	19.48	<=33.01	Pass
		25	0	18.71	0.75	19.46	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	23.97	0.75	24.72	<=33.01	Pass
			49	23.91	0.75	24.66	<=33.01	Pass
		50	0	22.86	0.75	23.61	<=33.01	Pass
	2595	1	0	23.77	0.75	24.52	<=33.01	Pass

			49	23.83	0.75	24.58	<=33.01	Pass	
		50	0	22.76	0.75	23.51	<=33.01	Pass	
	2615	1	0	23.63	0.75	24.38	<=33.01	Pass	
			49	23.67	0.75	24.42	<=33.01	Pass	
		50	0	22.68	0.75	23.43	<=33.01	Pass	
16QAM	2575	1	0	22.82	0.75	23.57	<=33.01	Pass	
			49	22.66	0.75	23.41	<=33.01	Pass	
		50	0	22.07	0.75	22.82	<=33.01	Pass	
	2595	1	0	22.68	0.75	23.43	<=33.01	Pass	
			49	22.66	0.75	23.41	<=33.01	Pass	
		50	0	21.92	0.75	22.67	<=33.01	Pass	
	2615	1	0	22.79	0.75	23.54	<=33.01	Pass	
			49	22.46	0.75	23.21	<=33.01	Pass	
		50	0	21.75	0.75	22.50	<=33.01	Pass	
	64QAM	2575	1	0	22.23	0.75	22.98	<=33.01	Pass
				49	22.19	0.75	22.94	<=33.01	Pass
			50	0	21.07	0.75	21.82	<=33.01	Pass
2595		1	0	22.25	0.75	23.00	<=33.01	Pass	
			49	22.11	0.75	22.86	<=33.01	Pass	
		50	0	20.94	0.75	21.69	<=33.01	Pass	
2615		1	0	21.51	0.75	22.26	<=33.01	Pass	
			49	21.76	0.75	22.51	<=33.01	Pass	
		50	0	20.81	0.75	21.56	<=33.01	Pass	
256QAM	2575	1	0	19.03	0.75	19.78	<=33.01	Pass	
			49	19.06	0.75	19.81	<=33.01	Pass	
		50	0	19.05	0.75	19.80	<=33.01	Pass	
	2595	1	0	19.18	0.75	19.93	<=33.01	Pass	
			49	19.10	0.75	19.85	<=33.01	Pass	
		50	0	18.89	0.75	19.64	<=33.01	Pass	
	2615	1	0	18.62	0.75	19.37	<=33.01	Pass	
			49	18.95	0.75	19.70	<=33.01	Pass	
		50	0	18.73	0.75	19.48	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	23.94	0.75	24.69	<=33.01	Pass
			74	23.91	0.75	24.66	<=33.01	Pass
		75	0	22.85	0.75	23.60	<=33.01	Pass
	2595	1	0	23.80	0.75	24.55	<=33.01	Pass
			74	23.82	0.75	24.57	<=33.01	Pass
		75	0	22.80	0.75	23.55	<=33.01	Pass
	2612.5	1	0	23.96	0.75	24.71	<=33.01	Pass
			74	23.62	0.75	24.37	<=33.01	Pass
		75	0	22.68	0.75	23.43	<=33.01	Pass
16QAM	2577.5	1	0	22.96	0.75	23.71	<=33.01	Pass
			74	22.93	0.75	23.68	<=33.01	Pass
		75	0	22.07	0.75	22.82	<=33.01	Pass
	2595	1	0	22.63	0.75	23.38	<=33.01	Pass
			74	22.72	0.75	23.47	<=33.01	Pass
		75	0	21.97	0.75	22.72	<=33.01	Pass
	2612.5	1	0	23.02	0.75	23.77	<=33.01	Pass
			74	22.92	0.75	23.67	<=33.01	Pass
		75	0	21.79	0.75	22.54	<=33.01	Pass

64QAM	2577.5	1	0	22.21	0.75	22.96	<=33.01	Pass
			74	21.57	0.75	22.32	<=33.01	Pass
		75	0	21.02	0.75	21.77	<=33.01	Pass
	2595	1	0	22.18	0.75	22.93	<=33.01	Pass
			74	22.20	0.75	22.95	<=33.01	Pass
		75	0	21.01	0.75	21.76	<=33.01	Pass
	2612.5	1	0	21.99	0.75	22.74	<=33.01	Pass
			74	21.79	0.75	22.54	<=33.01	Pass
		75	0	20.83	0.75	21.58	<=33.01	Pass
256QAM	2577.5	1	0	18.94	0.75	19.69	<=33.01	Pass
			74	18.87	0.75	19.62	<=33.01	Pass
		75	0	19.03	0.75	19.78	<=33.01	Pass
	2595	1	0	19.14	0.75	19.89	<=33.01	Pass
			74	18.73	0.75	19.48	<=33.01	Pass
		75	0	18.94	0.75	19.69	<=33.01	Pass
	2612.5	1	0	18.78	0.75	19.53	<=33.01	Pass
			74	18.57	0.75	19.32	<=33.01	Pass
		75	0	18.79	0.75	19.54	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	23.92	0.75	24.67	<=33.01	Pass
			99	23.75	0.75	24.50	<=33.01	Pass
		100	0	22.85	0.75	23.60	<=33.01	Pass
	2595	1	0	23.74	0.75	24.49	<=33.01	Pass
			99	23.68	0.75	24.43	<=33.01	Pass
		100	0	22.83	0.75	23.58	<=33.01	Pass
	2610	1	0	23.73	0.75	24.48	<=33.01	Pass
			99	23.72	0.75	24.47	<=33.01	Pass
		100	0	22.74	0.75	23.49	<=33.01	Pass
16QAM	2580	1	0	23.07	0.75	23.82	<=33.01	Pass
			99	22.93	0.75	23.68	<=33.01	Pass
		100	0	22.06	0.75	22.81	<=33.01	Pass
	2595	1	0	22.74	0.75	23.49	<=33.01	Pass
			99	22.84	0.75	23.59	<=33.01	Pass
		100	0	21.97	0.75	22.72	<=33.01	Pass
	2610	1	0	22.53	0.75	23.28	<=33.01	Pass
			99	22.43	0.75	23.18	<=33.01	Pass
		100	0	21.84	0.75	22.59	<=33.01	Pass
64QAM	2580	1	0	22.01	0.75	22.76	<=33.01	Pass
			99	22.02	0.75	22.77	<=33.01	Pass
		100	0	21.07	0.75	21.82	<=33.01	Pass
	2595	1	0	22.11	0.75	22.86	<=33.01	Pass
			99	21.74	0.75	22.49	<=33.01	Pass
		100	0	20.99	0.75	21.74	<=33.01	Pass
	2610	1	0	21.95	0.75	22.70	<=33.01	Pass
			99	21.62	0.75	22.37	<=33.01	Pass
		100	0	20.87	0.75	21.62	<=33.01	Pass
256QAM	2580	1	0	19.08	0.75	19.83	<=33.01	Pass
			99	19.29	0.75	20.04	<=33.01	Pass
		100	0	19.01	0.75	19.76	<=33.01	Pass
	2595	1	0	18.77	0.75	19.52	<=33.01	Pass
			99	19.25	0.75	20.00	<=33.01	Pass

	2610	100	0	18.94	0.75	19.69	<=33.01	Pass
		1	0	18.86	0.75	19.61	<=33.01	Pass
			99	18.85	0.75	19.60	<=33.01	Pass
		100	0	18.81	0.75	19.56	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2595	50	0	20	3.7	-1.588	-0.0006	-2.5 to 2.5	Pass
					3.91	-16.451	-0.0063	-2.5 to 2.5	Pass
					4.3	-4.950	-0.0019	-2.5 to 2.5	Pass
				-30	3.91	-7.381	-0.0028	-2.5 to 2.5	Pass
				-20	3.91	-7.896	-0.0030	-2.5 to 2.5	Pass
				-10	3.91	-6.709	-0.0026	-2.5 to 2.5	Pass
				0	3.91	-3.819	-0.0015	-2.5 to 2.5	Pass
				10	3.91	-2.518	-0.0010	-2.5 to 2.5	Pass
				30	3.91	-3.762	-0.0014	-2.5 to 2.5	Pass
				40	3.91	2.789	0.0011	-2.5 to 2.5	Pass
				50	3.91	1.302	0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

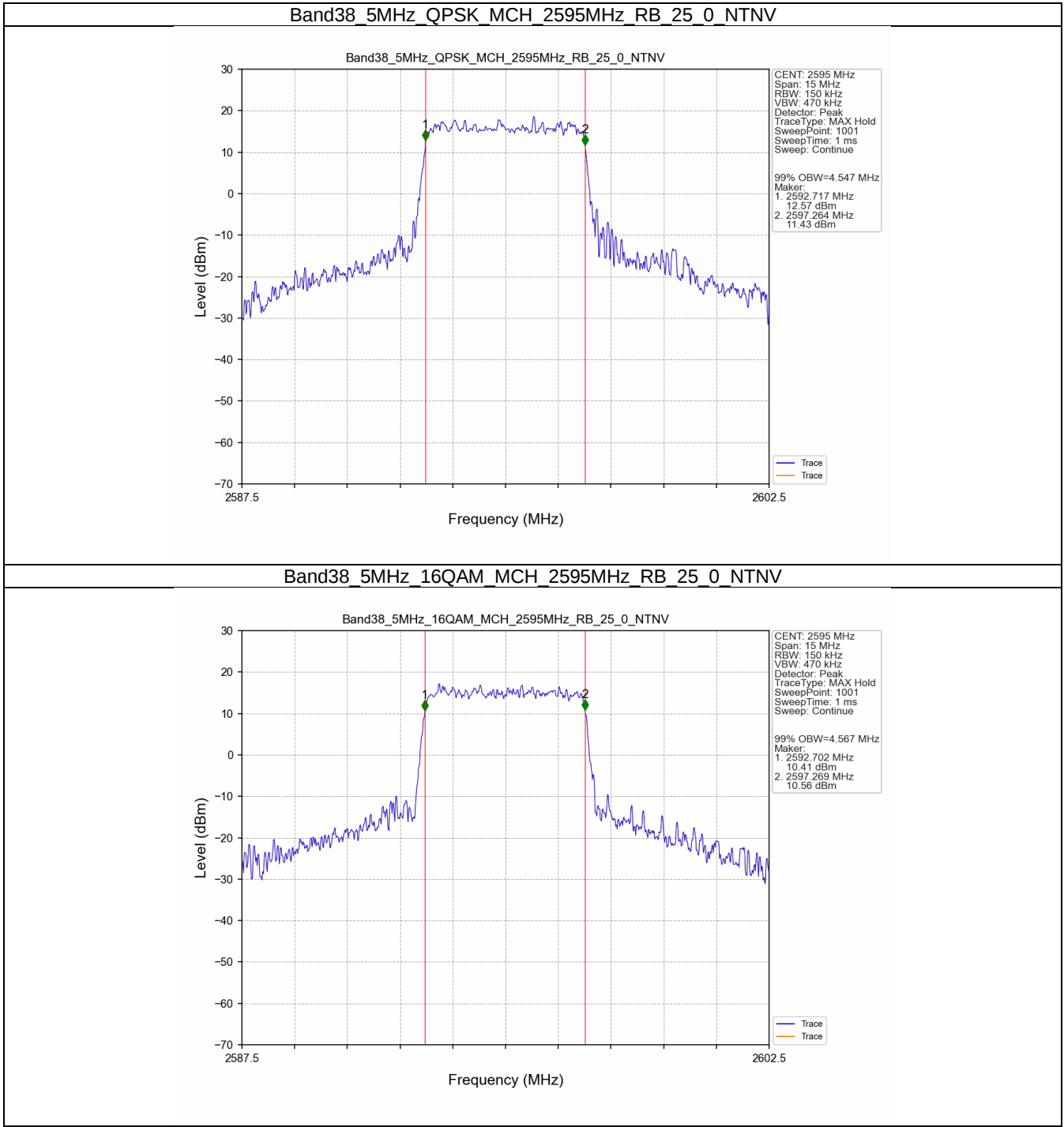
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	4.547	/	Pass
	16QAM	2595	25	0	4.567	/	Pass
10	QPSK	2595	50	0	9.083	/	Pass
	16QAM	2595	50	0	9.075	/	Pass
15	QPSK	2595	75	0	13.649	/	Pass
	16QAM	2595	75	0	13.615	/	Pass
20	QPSK	2595	100	0	18.224	/	Pass
	16QAM	2595	100	0	18.125	/	Pass

3.1.2 Band38_XDB

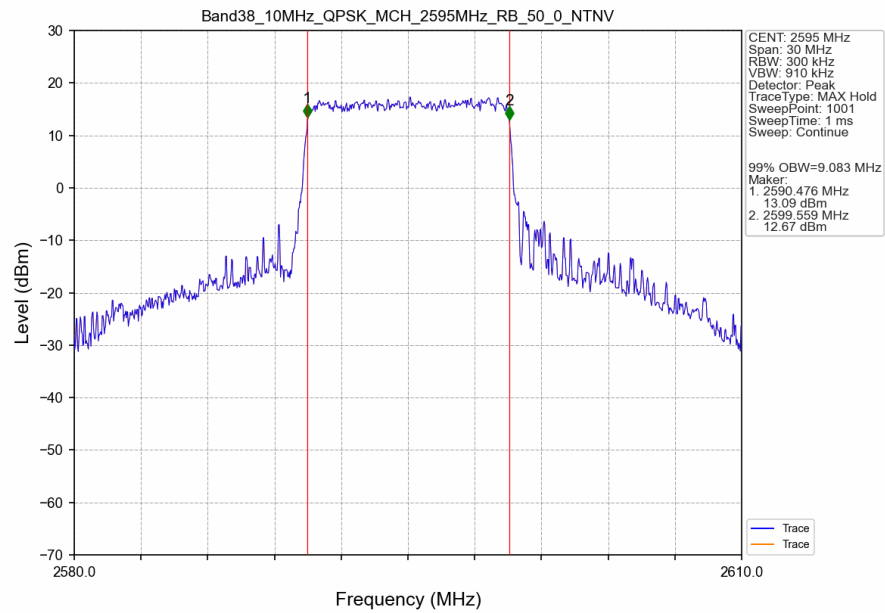
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	5.562	/	Pass
	16QAM	2595	25	0	5.067	/	Pass
10	QPSK	2595	50	0	12.222	/	Pass
	16QAM	2595	50	0	12.110	/	Pass
15	QPSK	2595	75	0	17.287	/	Pass
	16QAM	2595	75	0	19.915	/	Pass
20	QPSK	2595	100	0	26.449	/	Pass
	16QAM	2595	100	0	23.180	/	Pass

3.2 Test Graph

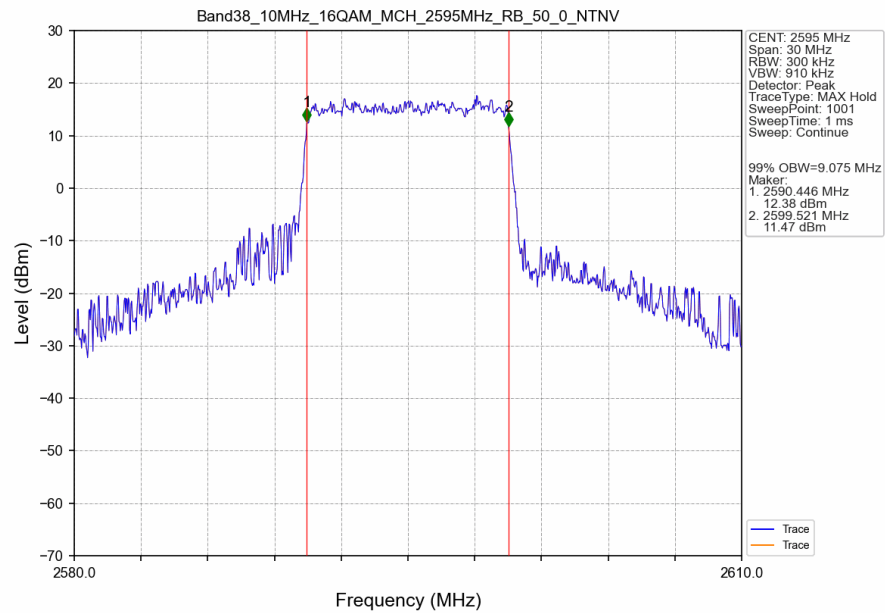
3.2.1 Band38_OBW



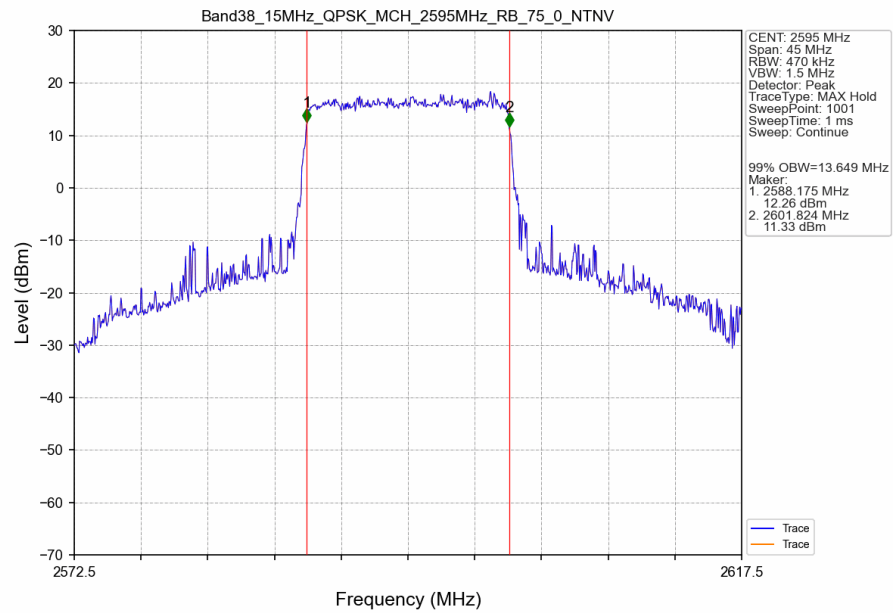
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



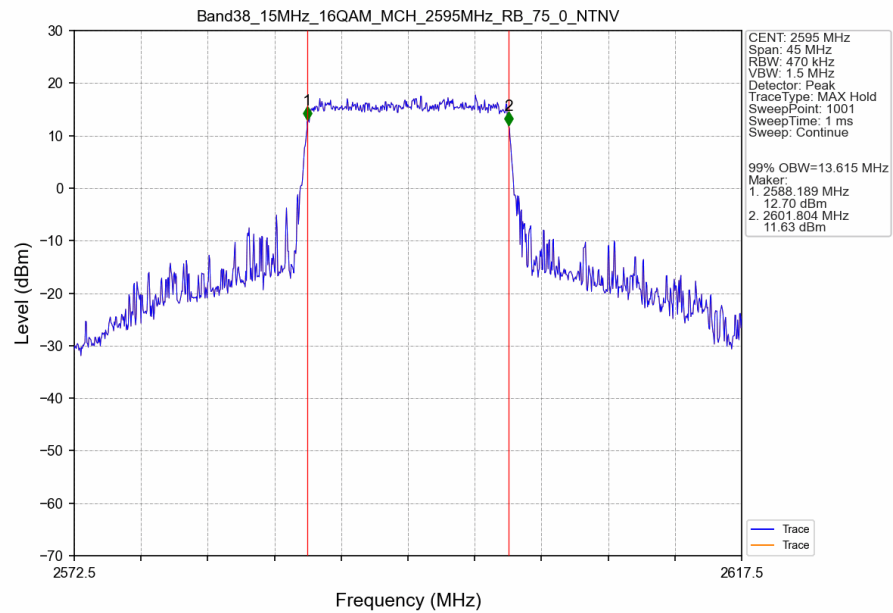
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



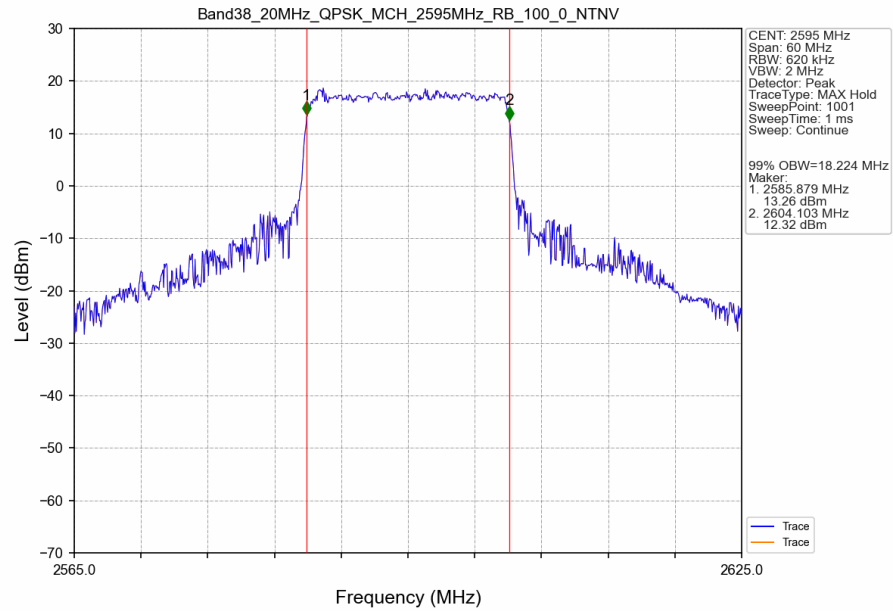
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



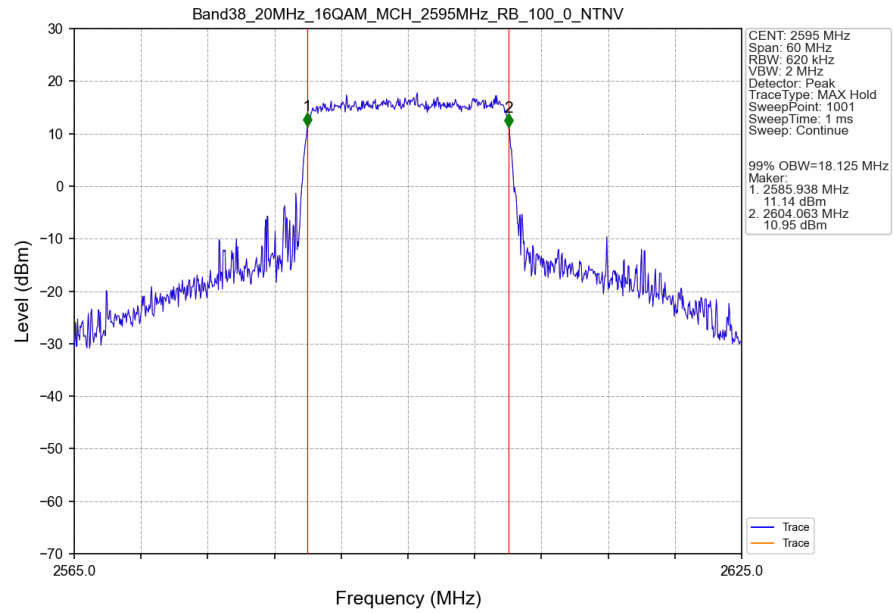
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



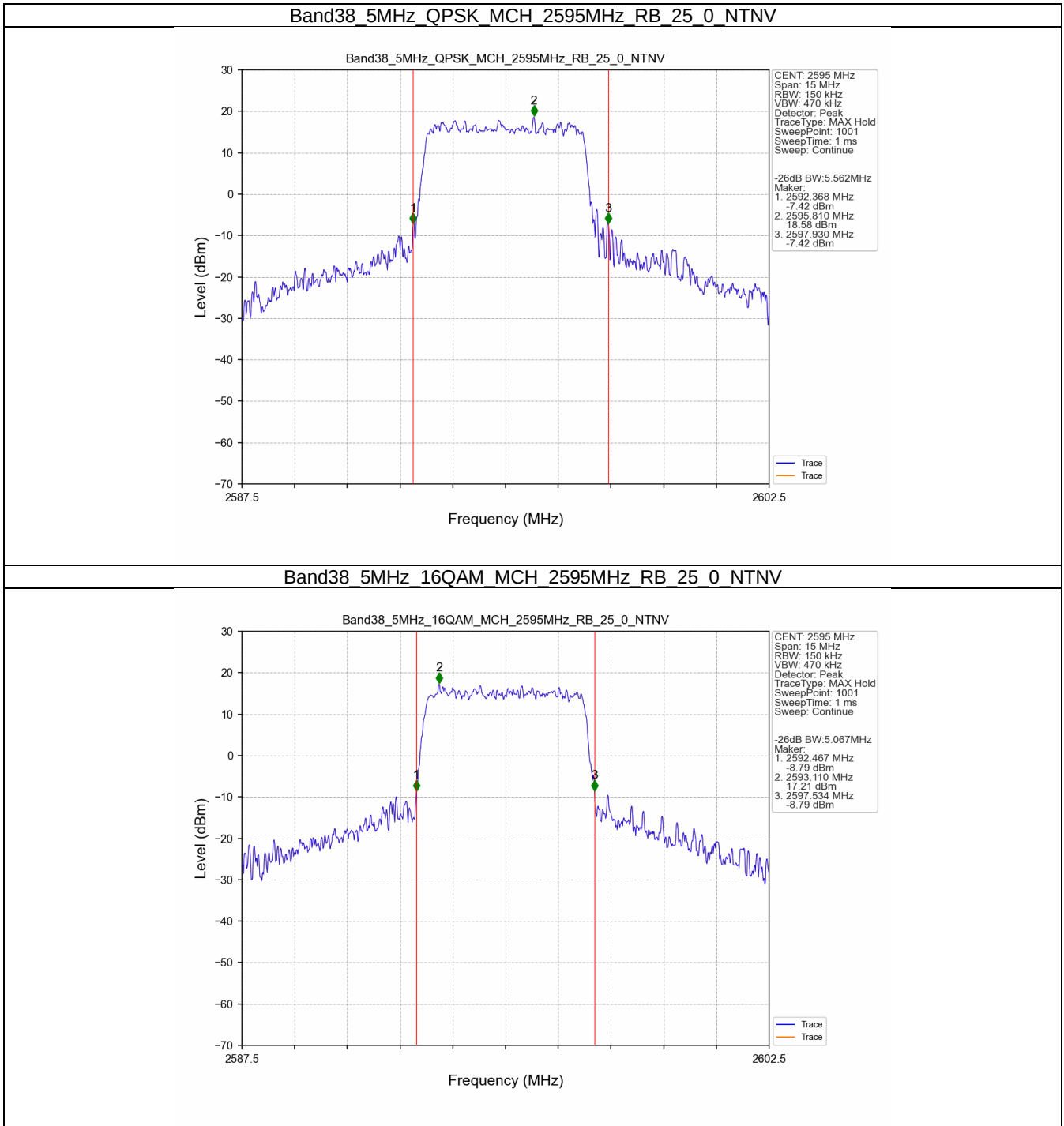
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



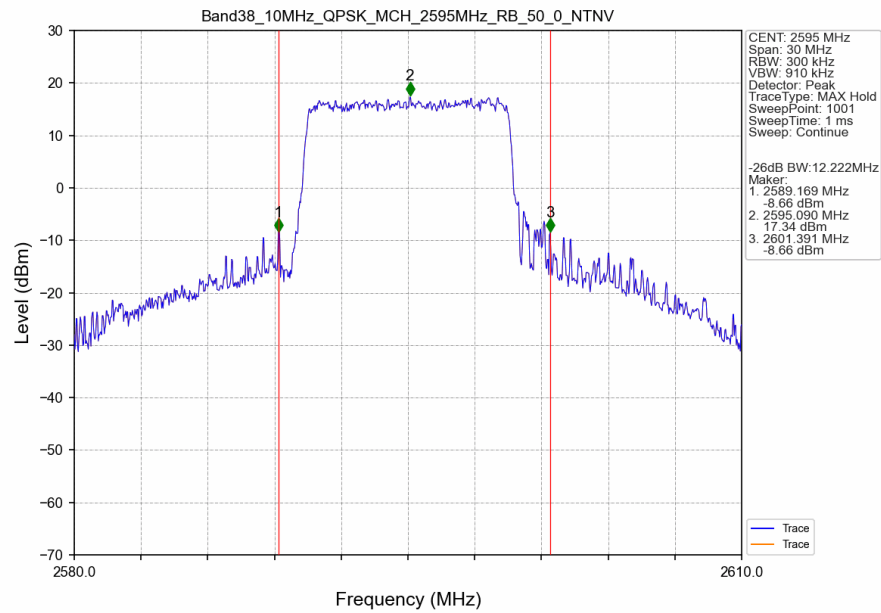
Band38 20MHz 16QAM MCH 2595MHz RB 100 0 NTNV



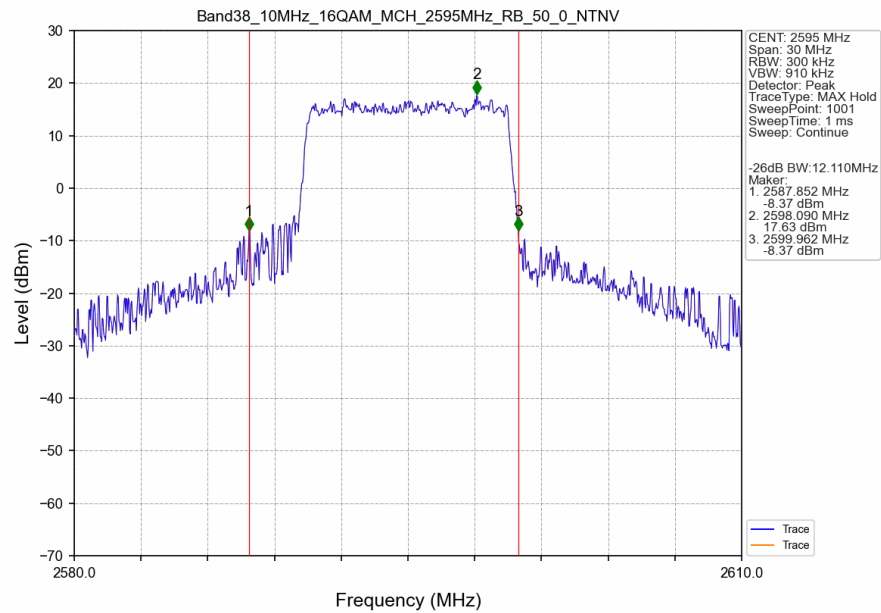
3.2.2 Band38_XDB



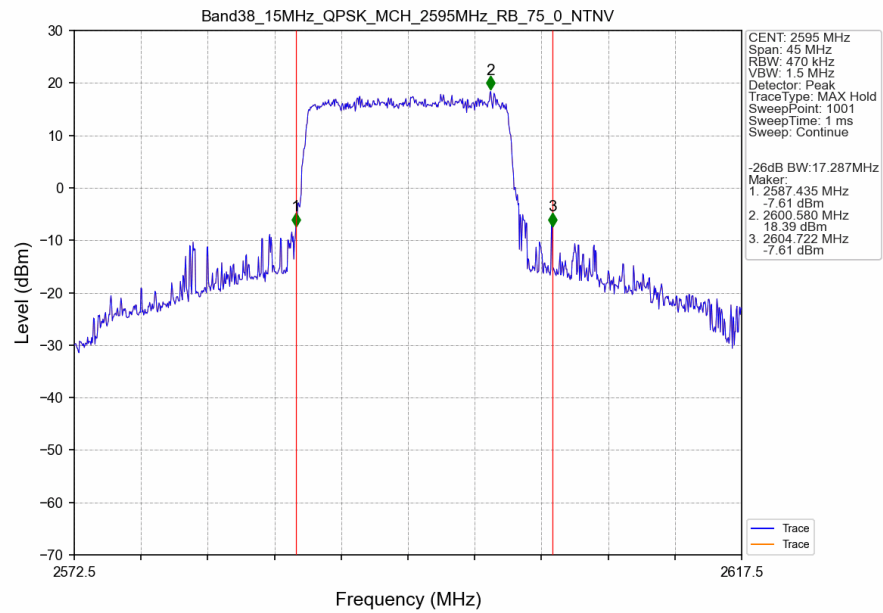
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



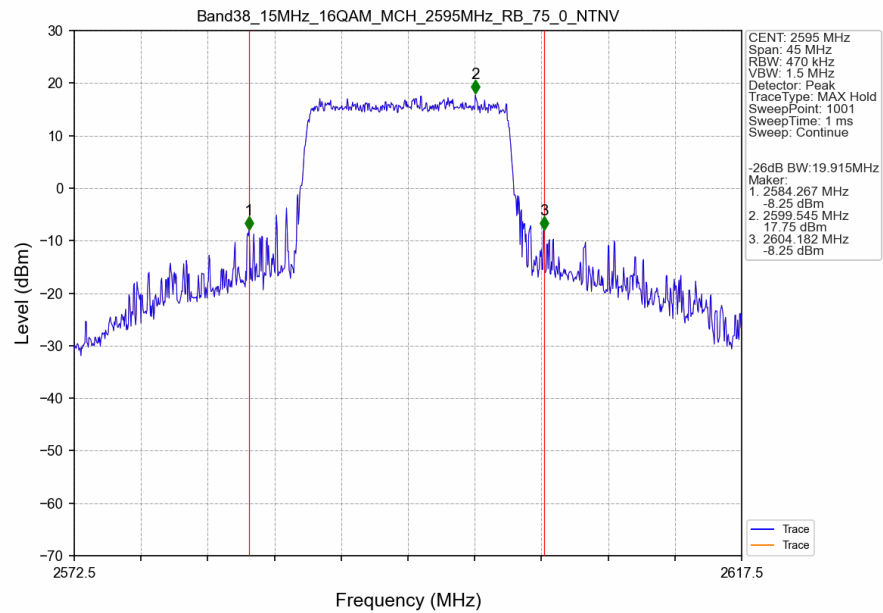
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



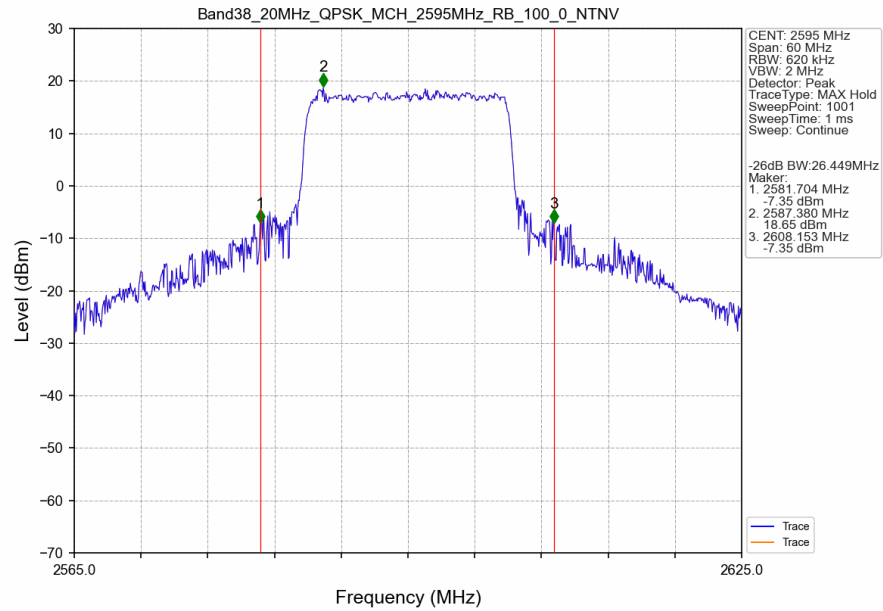
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



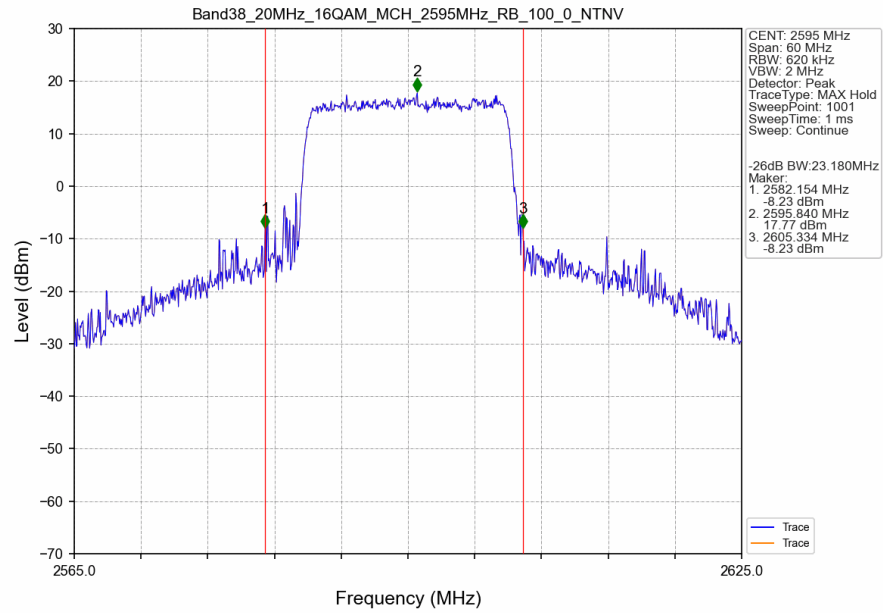
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



Band38 20MHz 16QAM MCH 2595MHz RB 100 0 NTNV



4. Peak-Average Ratio

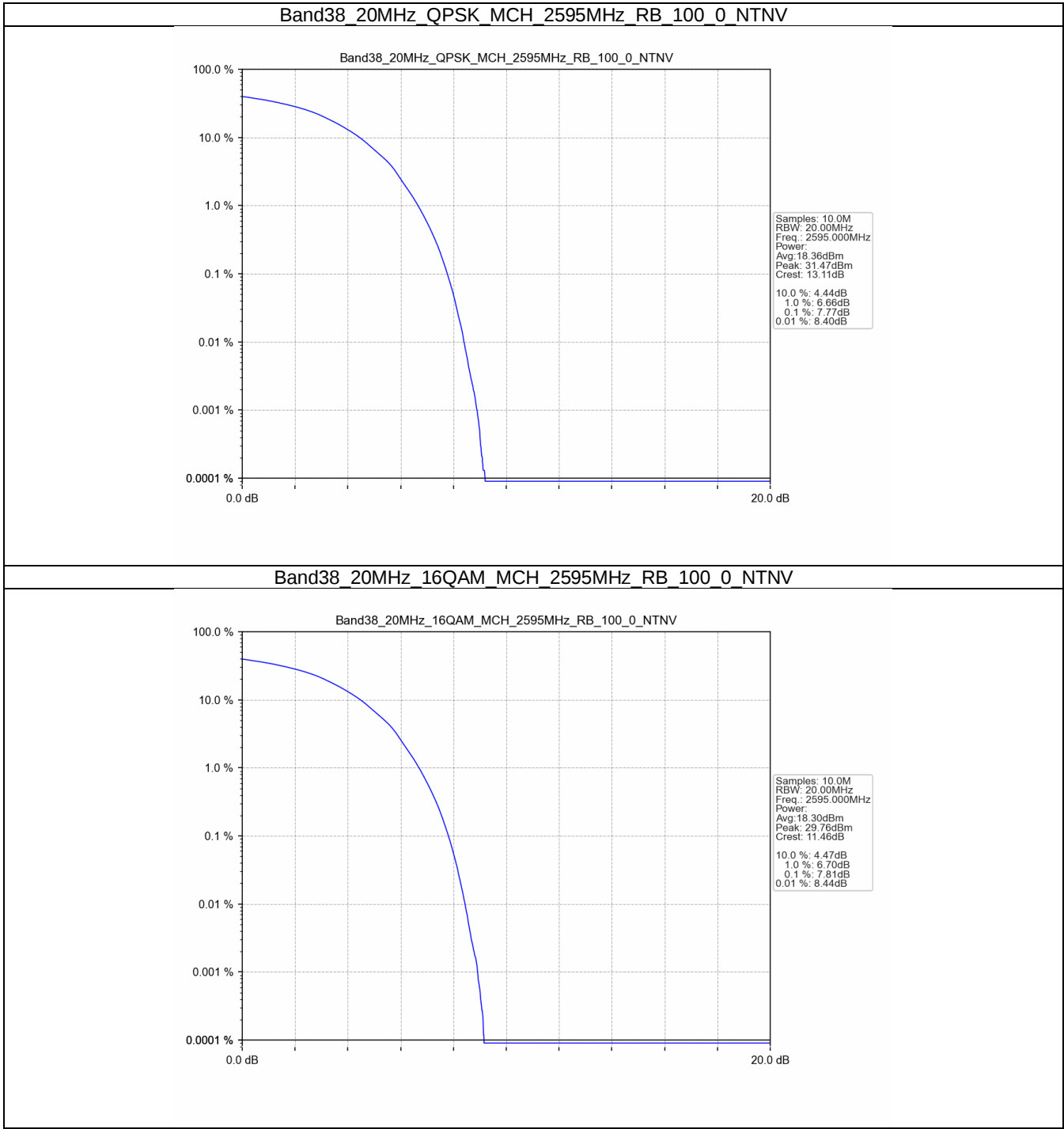
4.1 Test Result

4.1.1 B38_20MHz

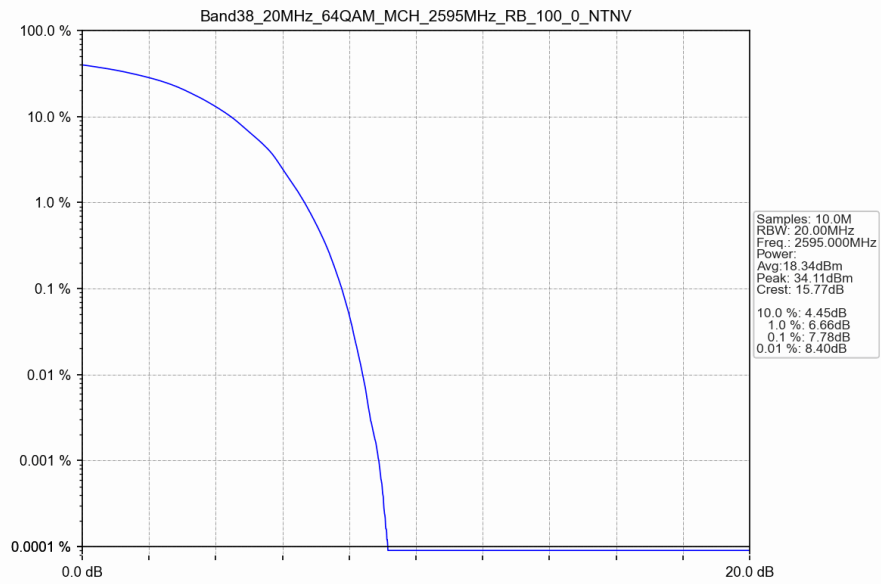
Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	7.77	<=13	Pass
16QAM	2595	100	0	7.81	<=13	Pass
64QAM	2595	100	0	7.78	<=13	Pass
256QAM	2595	100	0	8.38	<=13	Pass

4.2 Test Graph

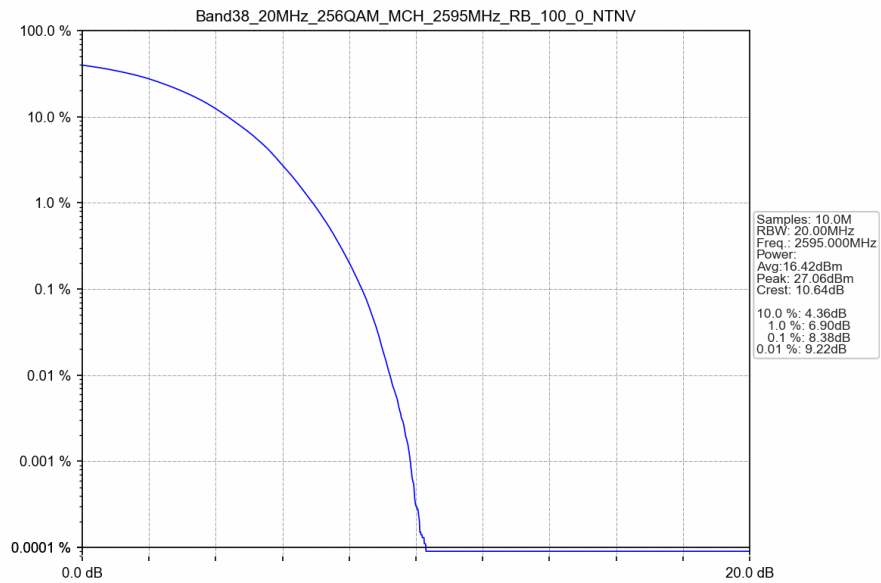
4.2.1 B38_20MHz



Band38 20MHz 64QAM MCH 2595MHz RB 100 0 NTNV



Band38 20MHz 256QAM MCH 2595MHz RB 100 0 NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B38_15MHz

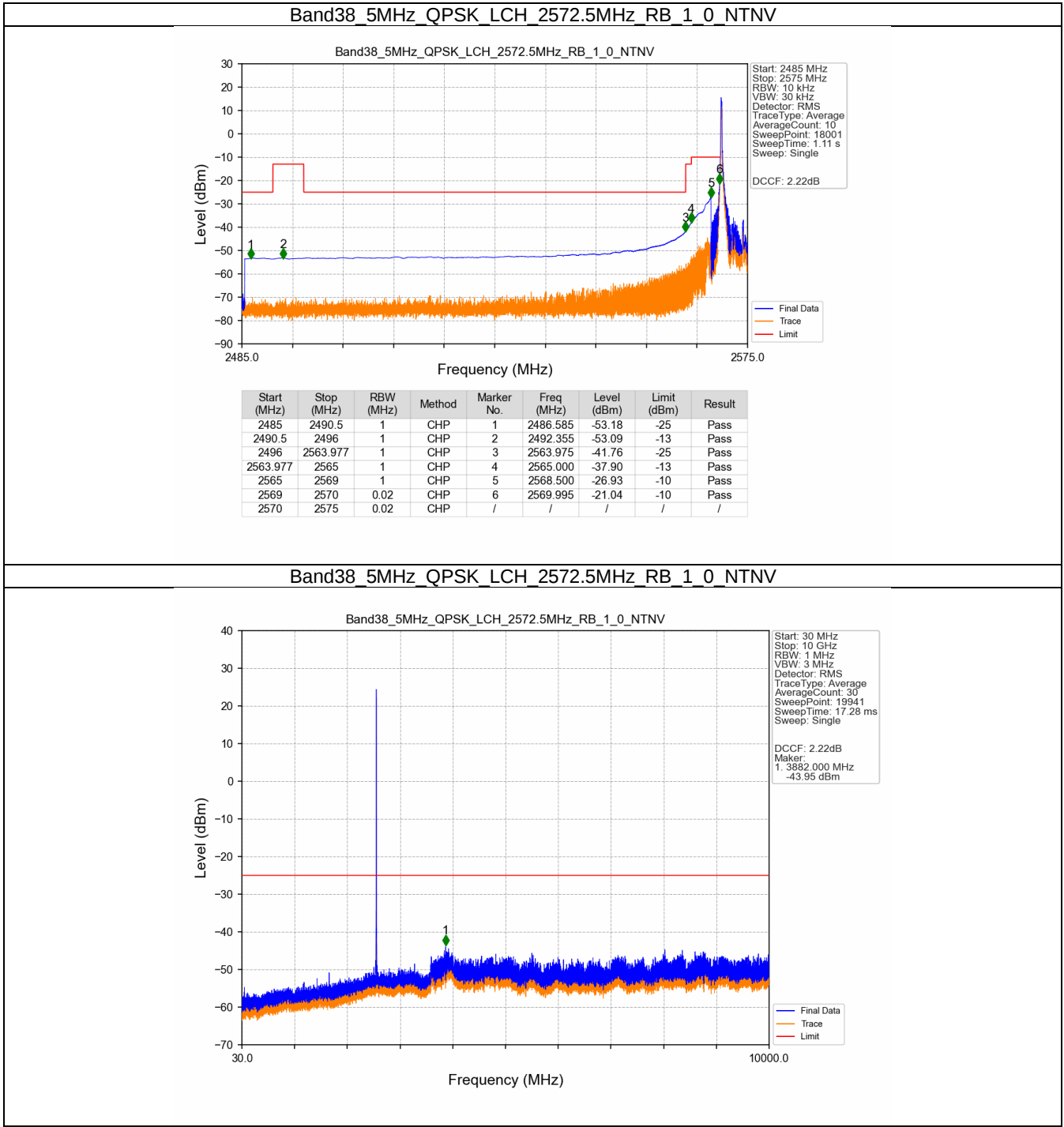
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B38_20MHz

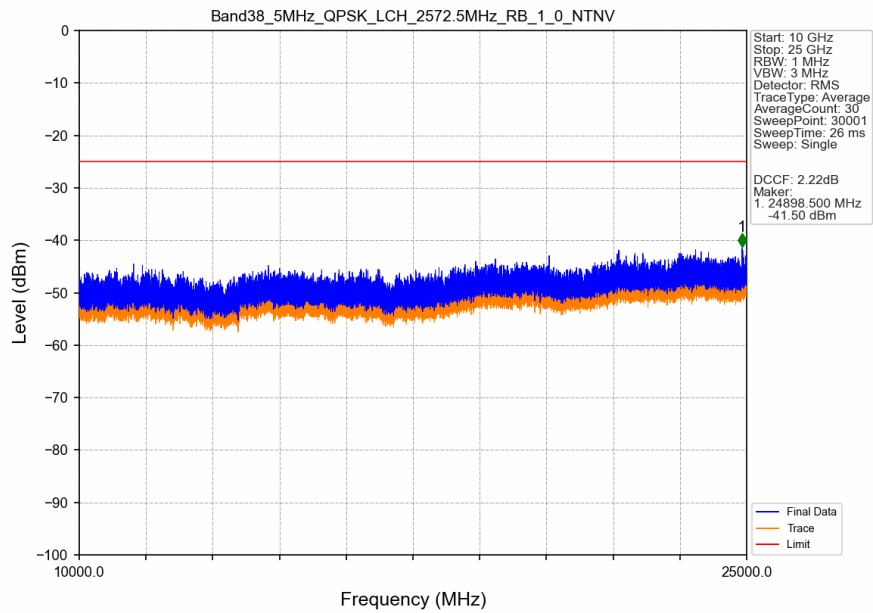
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

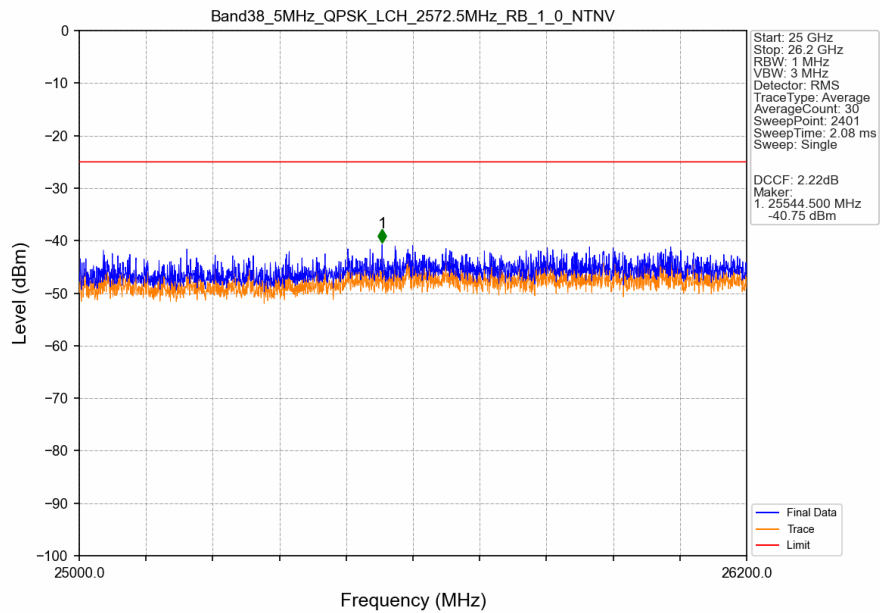
5.2.1 B38_5MHz



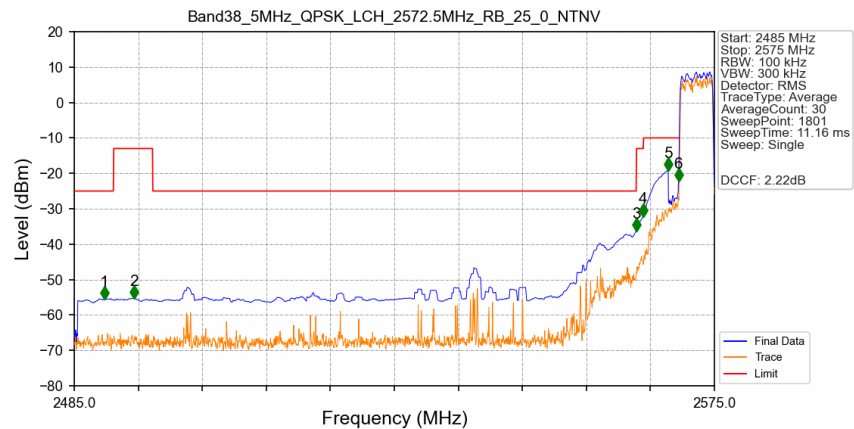
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNV



Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTNV

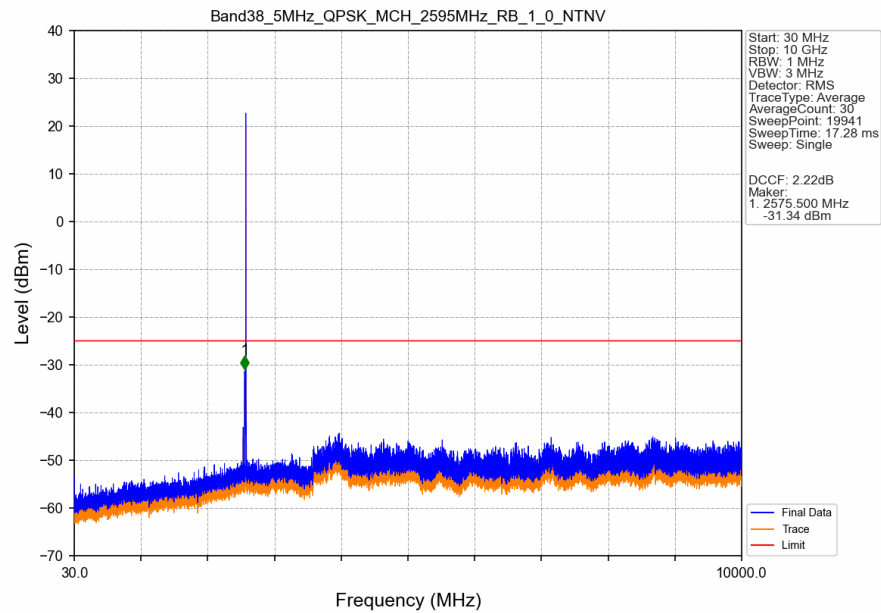


Band38 5MHz QPSK LCH 2572.5MHz RB 25 0 NTNV

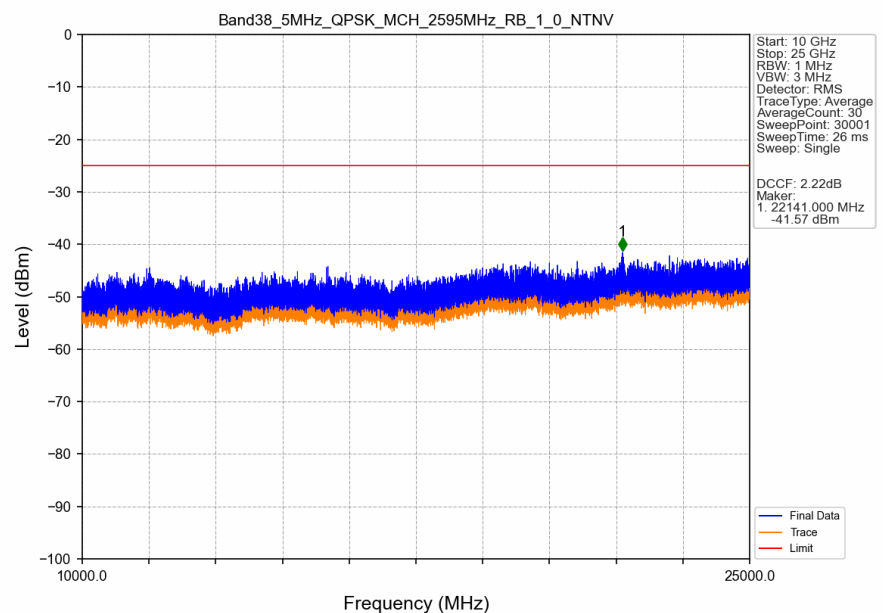


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.250	-55.27	-25	Pass
2490.5	2496	1	CHP	2	2493.450	-55.14	-13	Pass
2496	2564	1	CHP	3	2564.000	-36.14	-25	Pass
2564	2565	1	CHP	4	2565.000	-31.94	-13	Pass
2565	2569	1	CHP	5	2568.500	-18.99	-10	Pass
2569	2570	0.113	CHP	6	2569.950	-22.01	-10	Pass
2570	2575	0.113	CHP	/	/	/	/	/

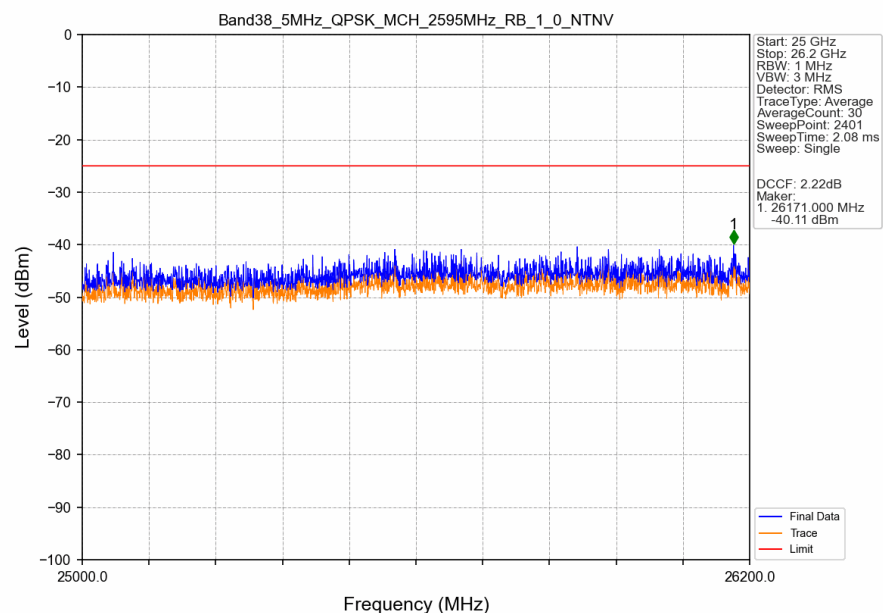
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTNV



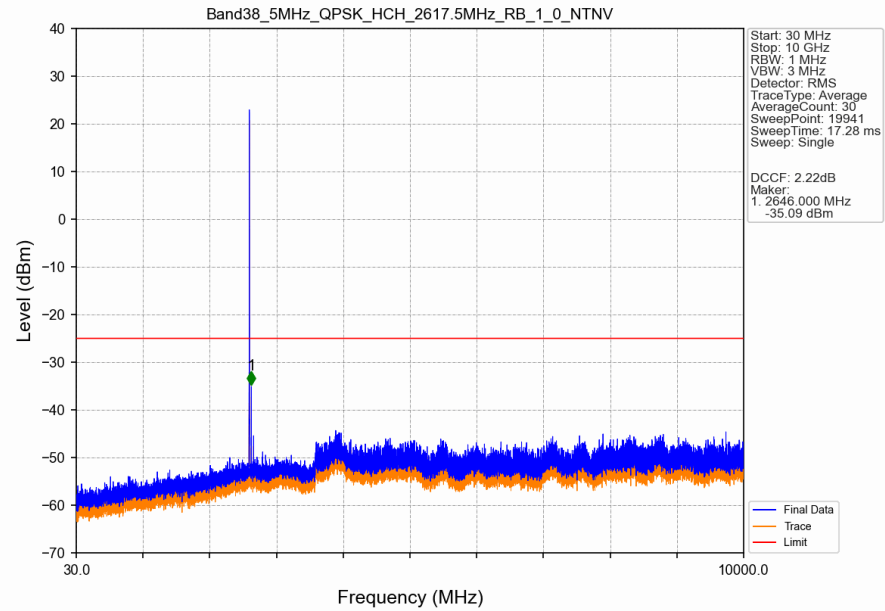
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



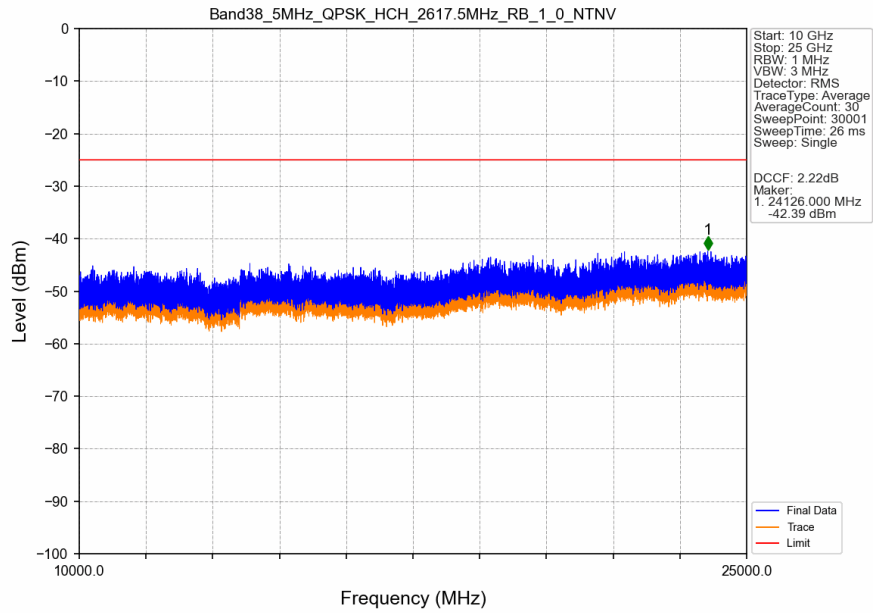
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



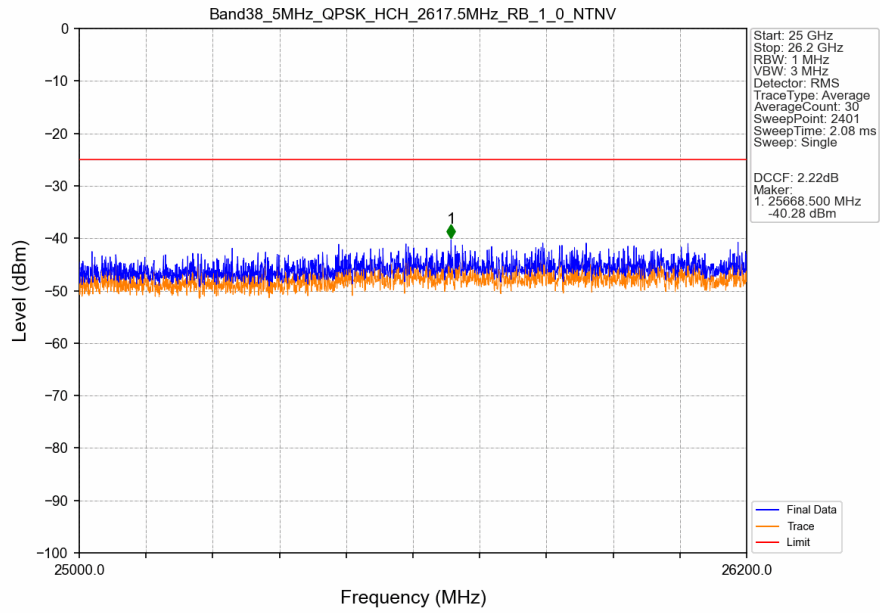
Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTNV



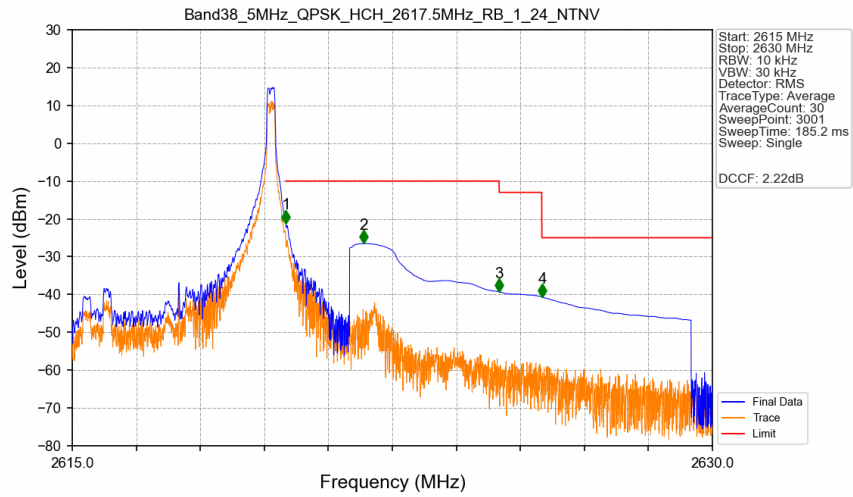
Band38 5MHz QPSK HCH 2617.5MHz_RB 1 0 NTNV



Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTV

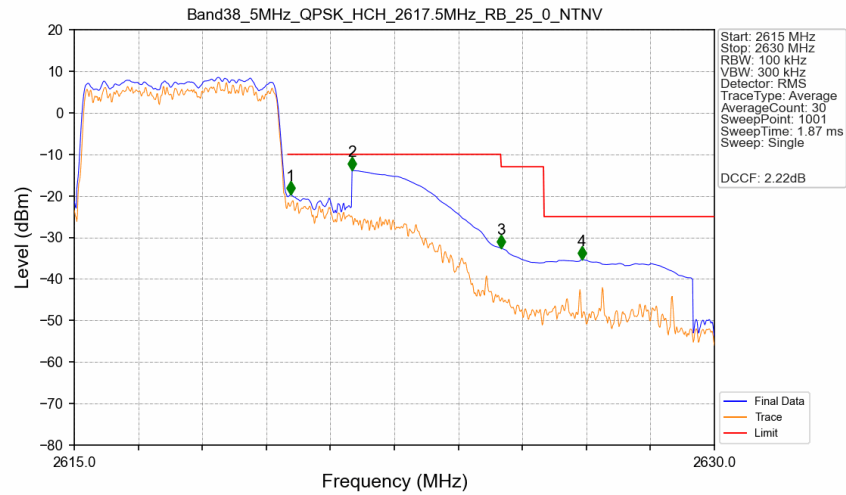


Band38 5MHz QPSK HCH 2617.5MHz RB 1 24 NTV



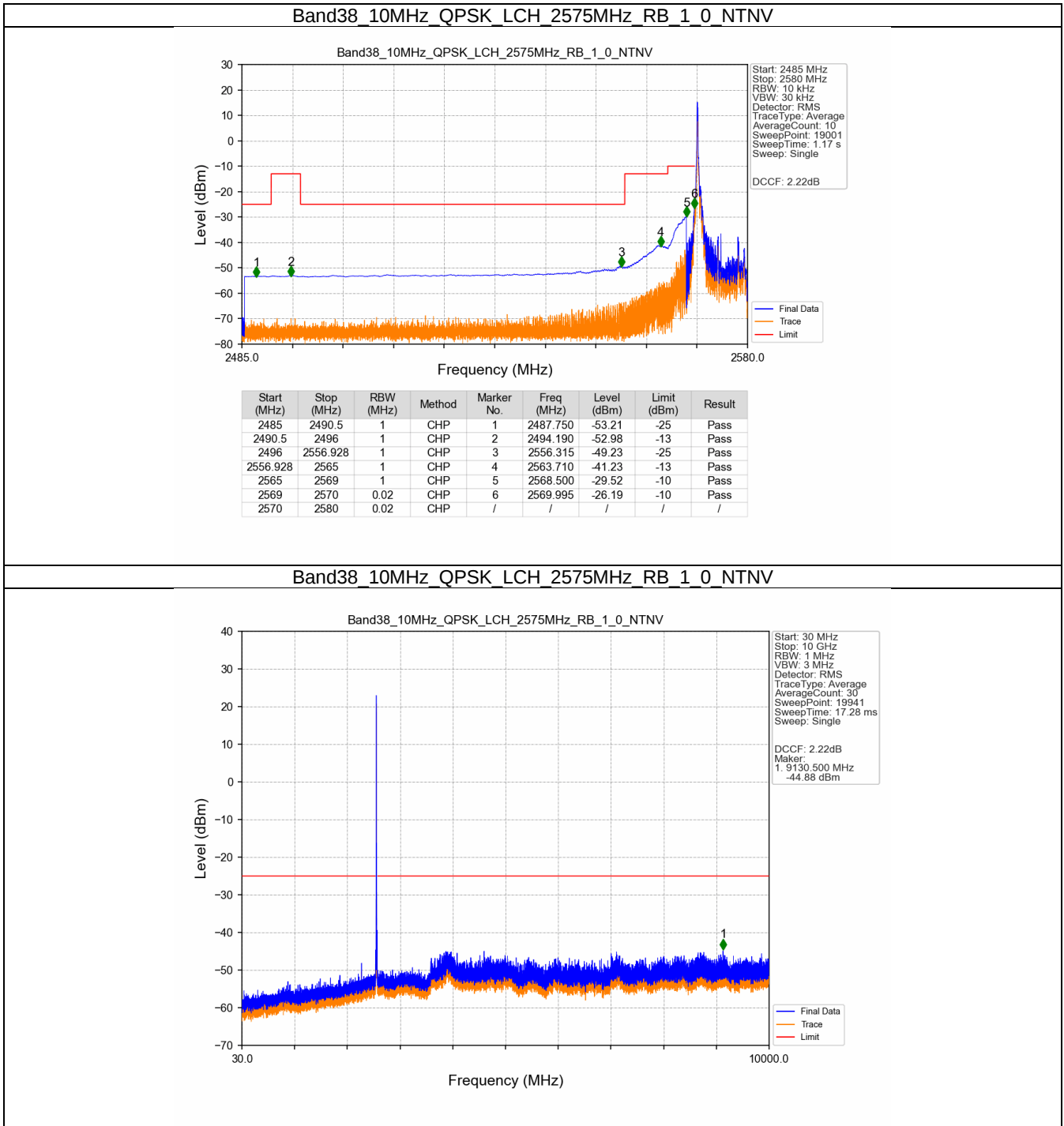
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-21.13	-10	Pass
2621	2625	1	CHP	2	2621.830	-26.53	-10	Pass
2625	2626	1	CHP	3	2625.005	-39.34	-13	Pass
2626	2630	1	CHP	4	2626.015	-40.65	-25	Pass

Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTV

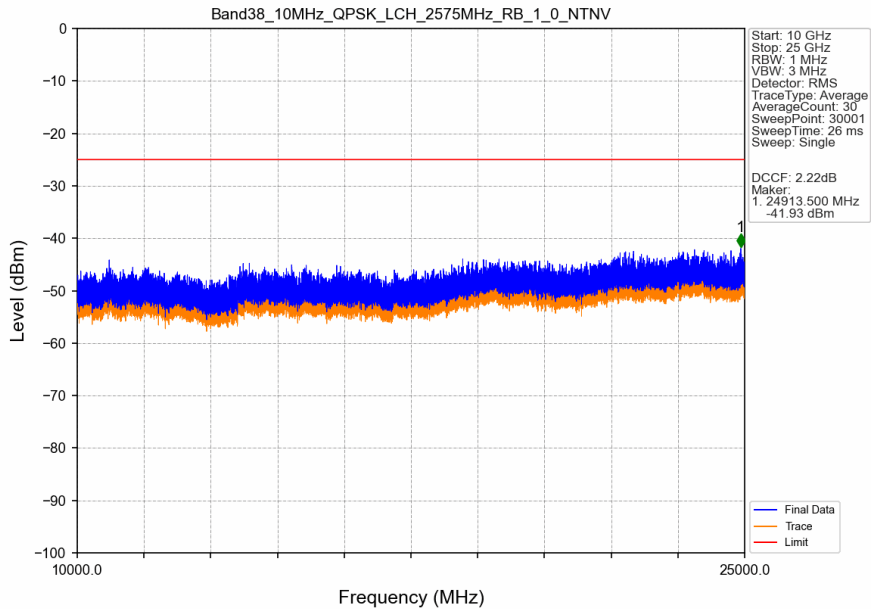


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.113	CHP	/	/	/	/	/
2620	2621	0.113	CHP	1	2620.070	-19.71	-10	Pass
2621	2625	1	CHP	2	2621.510	-13.83	-10	Pass
2625	2626	1	CHP	3	2625.005	-32.60	-13	Pass
2626	2630	1	CHP	4	2626.895	-35.32	-25	Pass

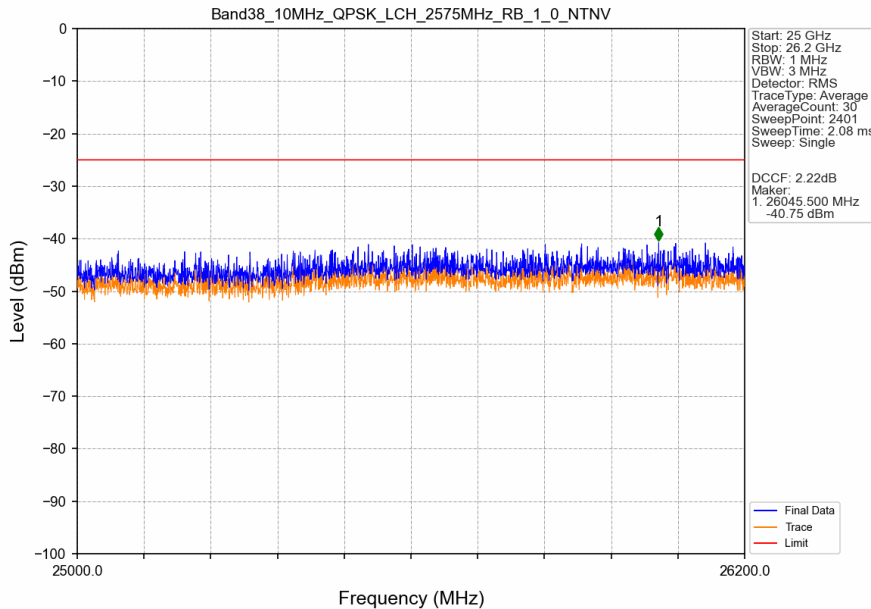
5.2.2 B38_10MHz



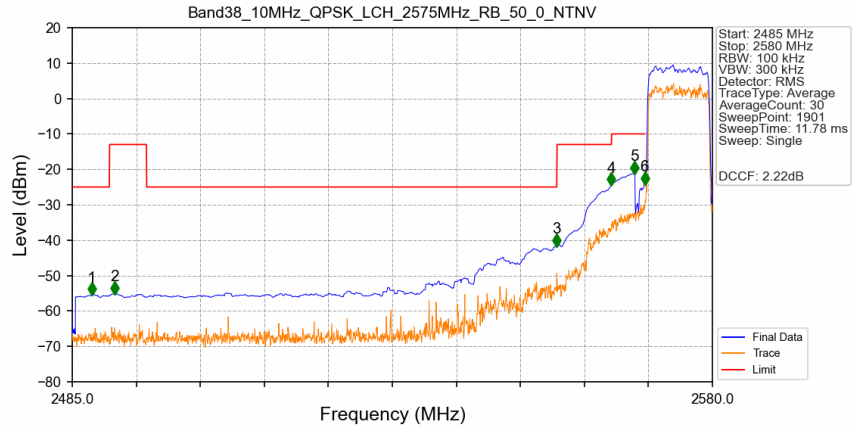
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

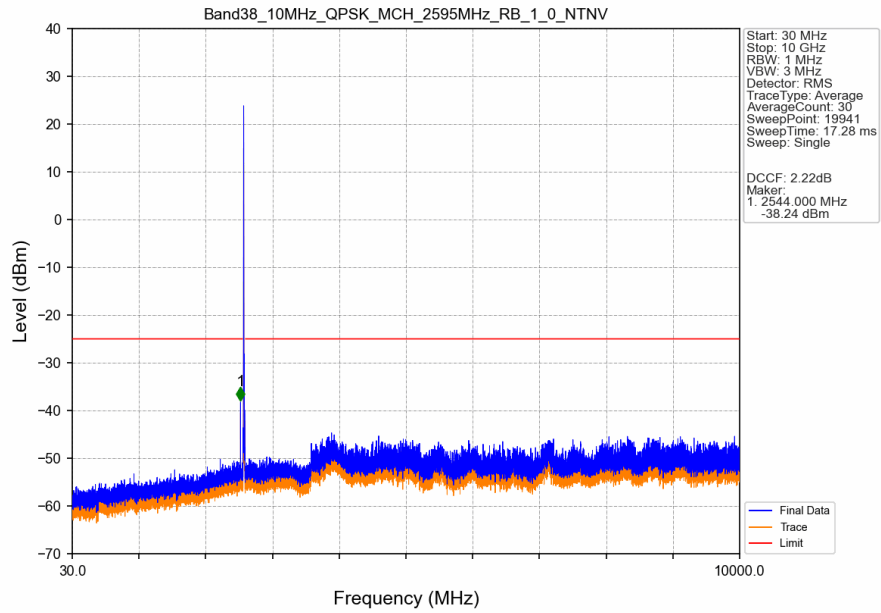


Band38 10MHz QPSK LCH 2575MHz RB 50 0 NTV

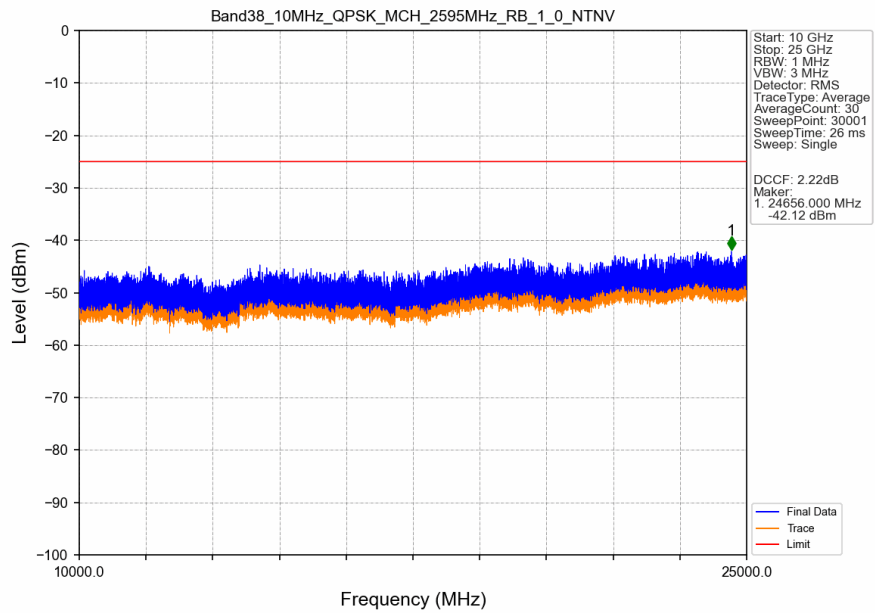


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.900	-55.30	-25	Pass
2490.5	2496	1	CHP	2	2491.300	-55.03	-13	Pass
2496	2556.928	1	CHP	3	2556.900	-41.52	-25	Pass
2556.928	2565	1	CHP	4	2565.000	-24.34	-13	Pass
2565	2569	1	CHP	5	2568.450	-21.06	-10	Pass
2569	2570	0.261	CHP	6	2569.950	-24.03	-10	Pass
2570	2580	0.261	CHP	/	/	/	/	/

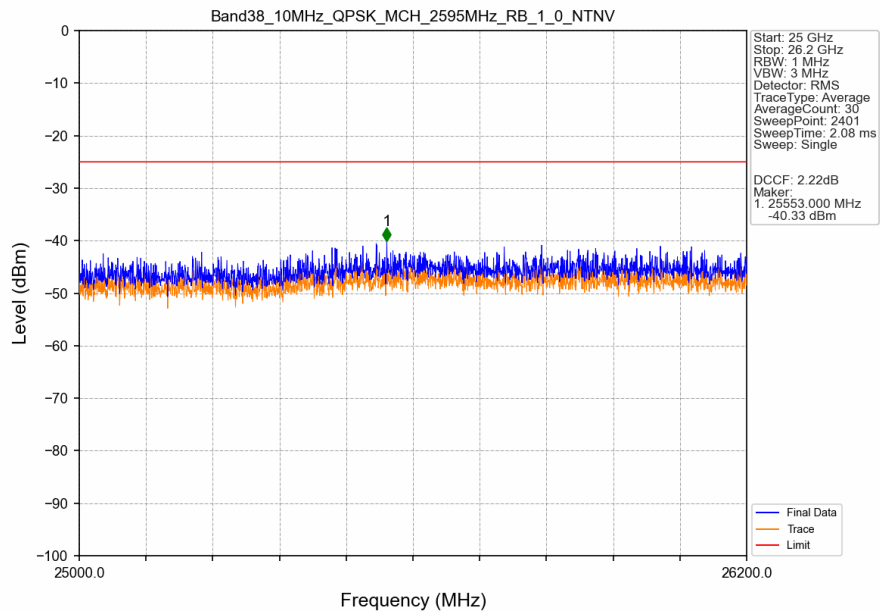
Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTV



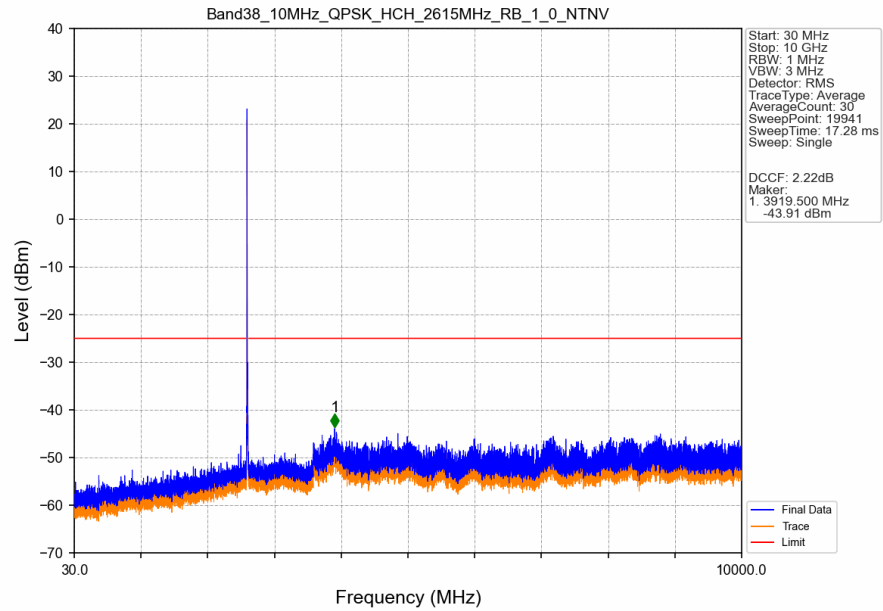
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



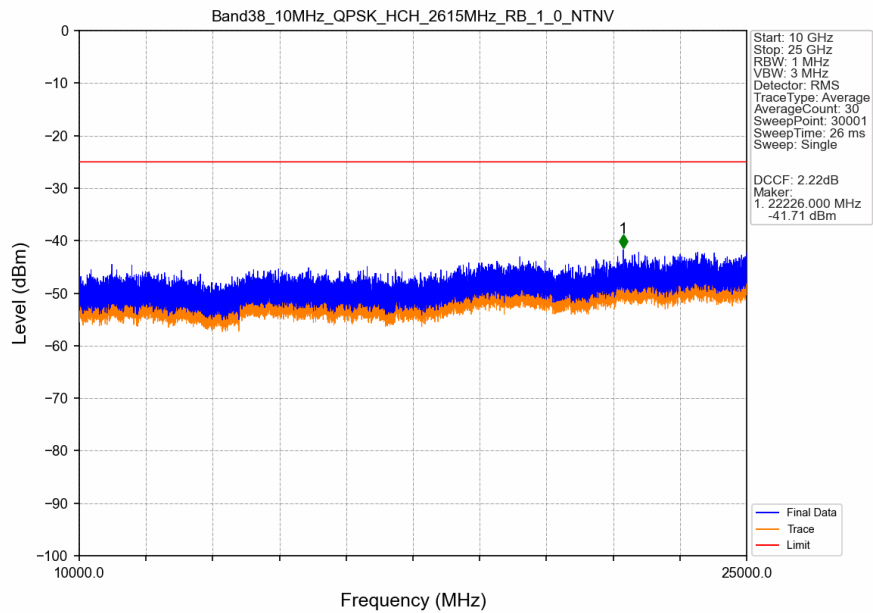
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



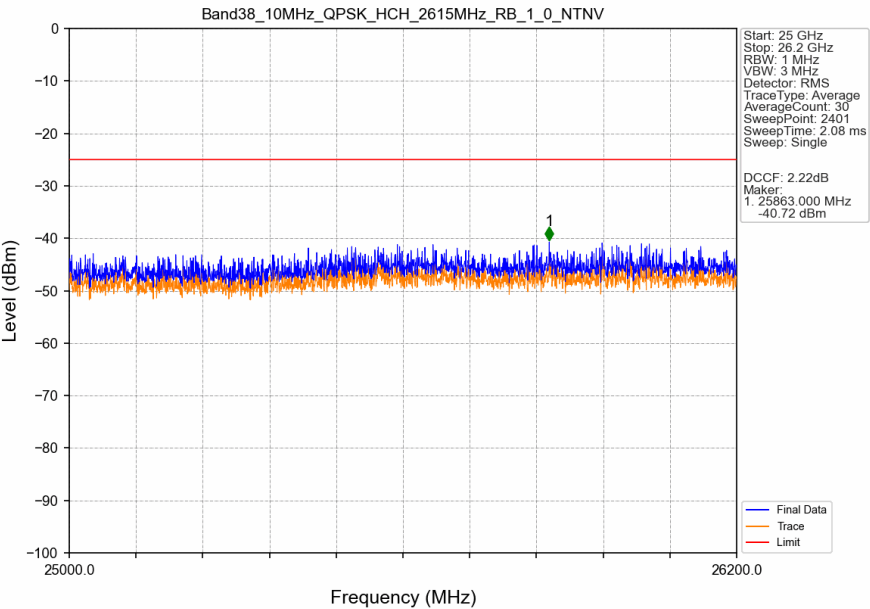
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



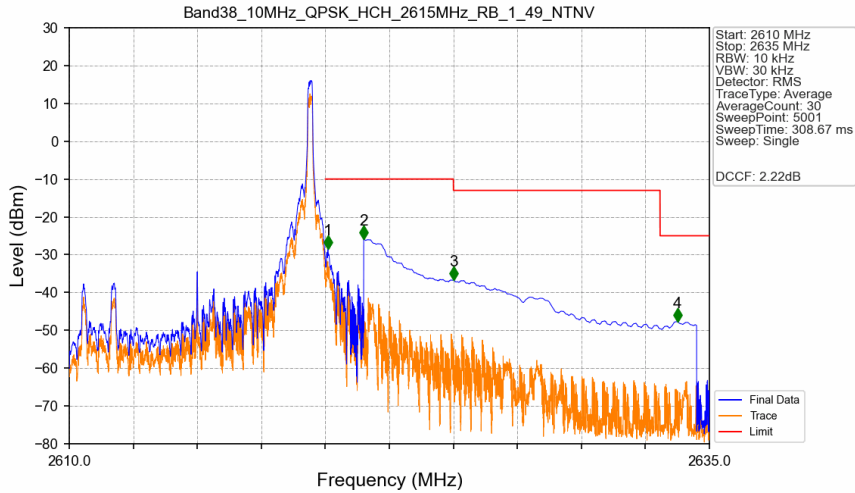
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTNV

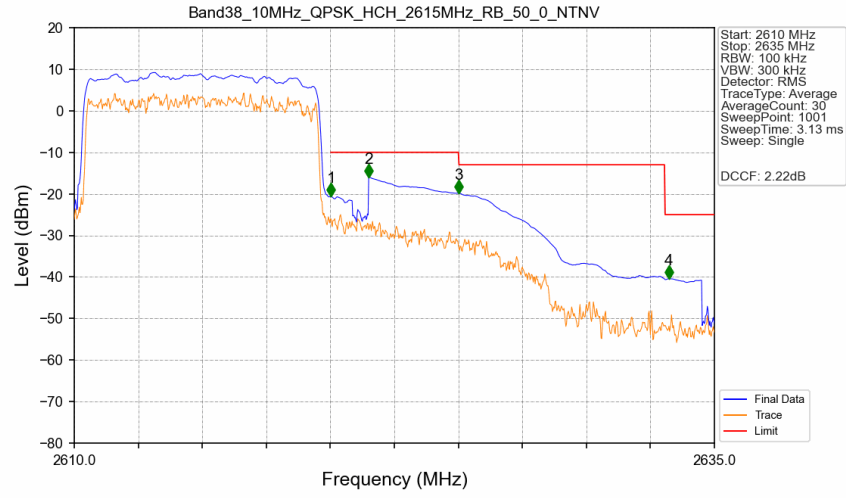


Band38 10MHz QPSK HCH 2615MHz RB 1 49 NTNV



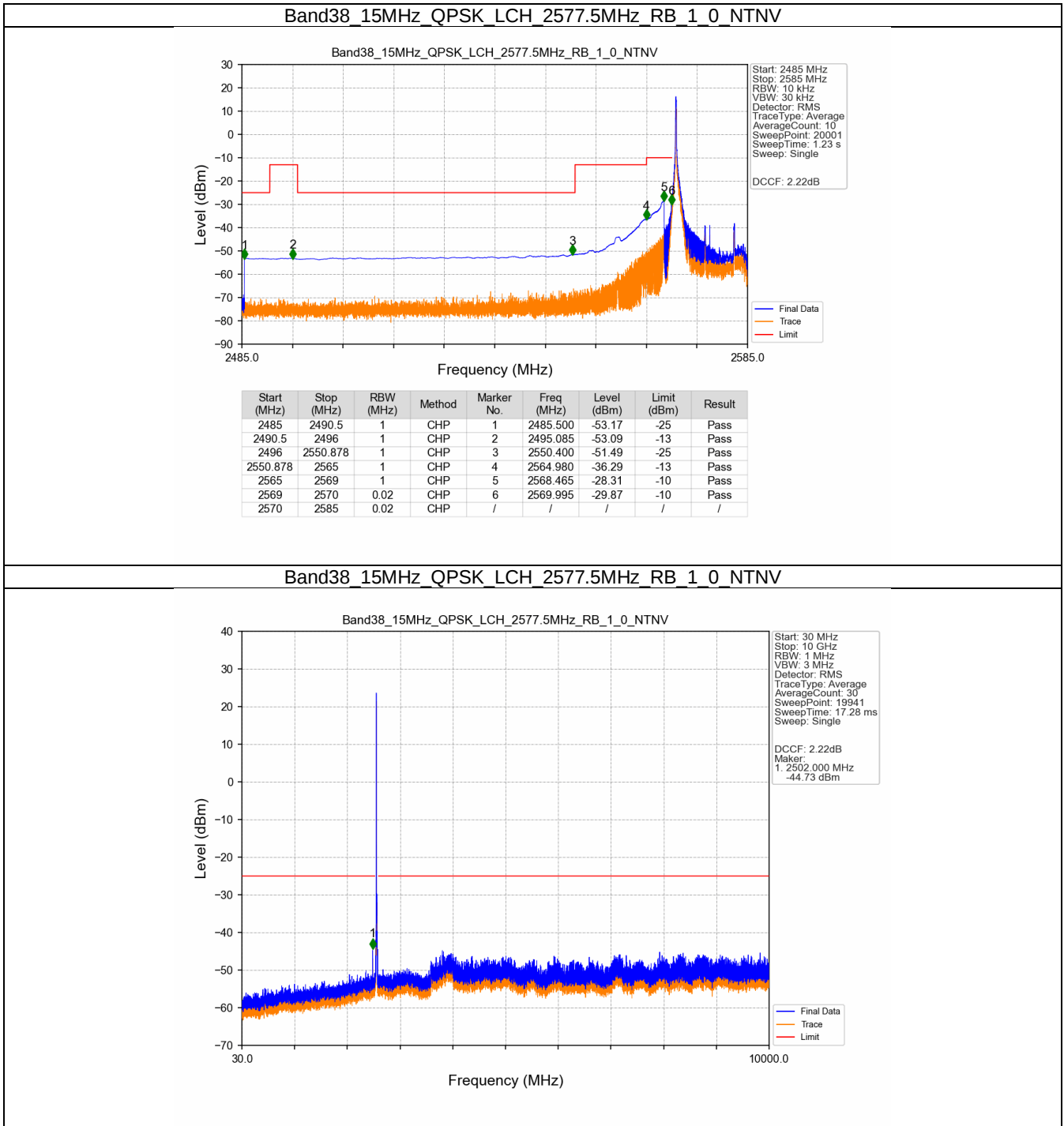
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.105	-28.49	-10	Pass
2621	2625	1	CHP	2	2621.500	-25.93	-10	Pass
2625	2633.072	1	CHP	3	2625.005	-36.67	-13	Pass
2633.072	2635	1	CHP	4	2633.745	-47.64	-25	Pass

Band38 10MHz QPSK HCH 2615MHz RB 50 0 NTV

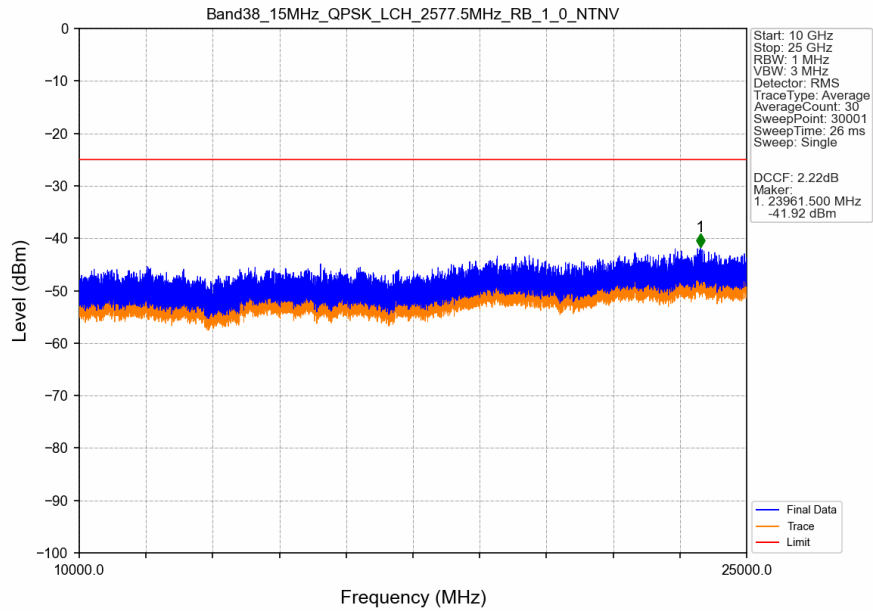


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.261	CHP	/	/	/	/	/
2620	2621	0.261	CHP	1	2620.025	-20.57	-10	Pass
2621	2625	1	CHP	2	2621.500	-15.99	-10	Pass
2625	2633.072	1	CHP	3	2625.025	-19.89	-13	Pass
2633.072	2635	1	CHP	4	2633.225	-40.44	-25	Pass

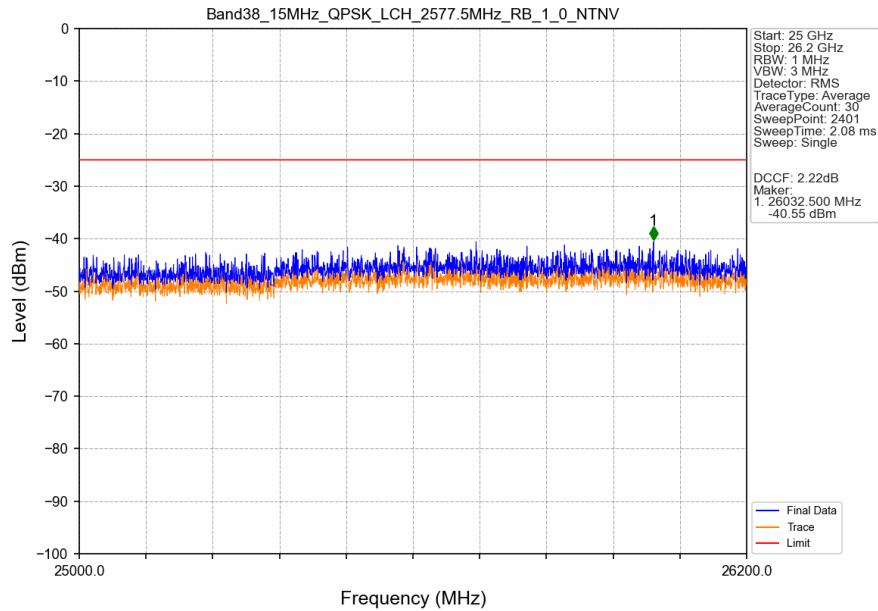
5.2.3 B38_15MHz



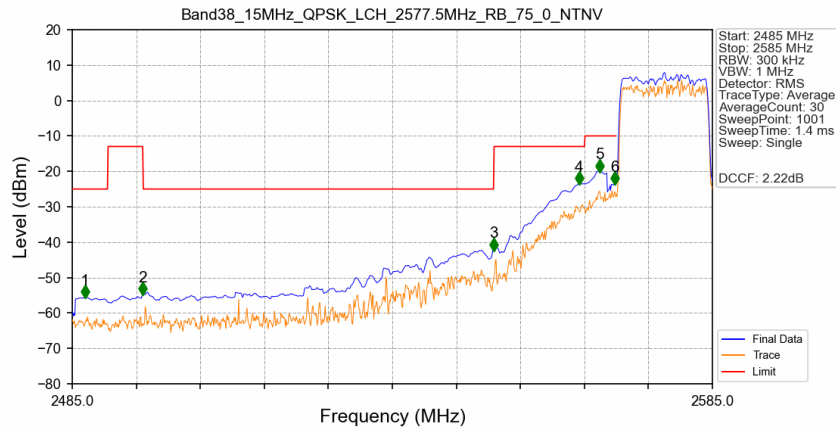
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

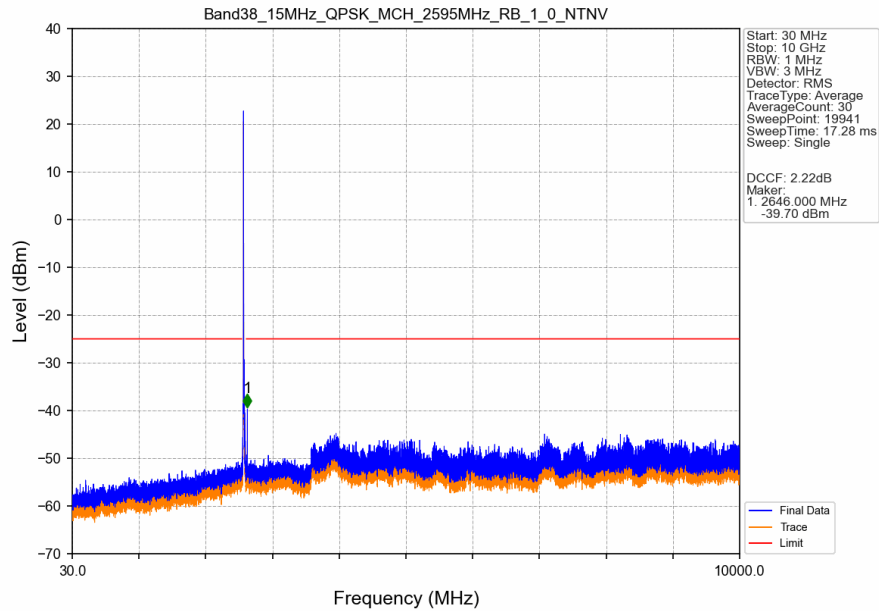


Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTN

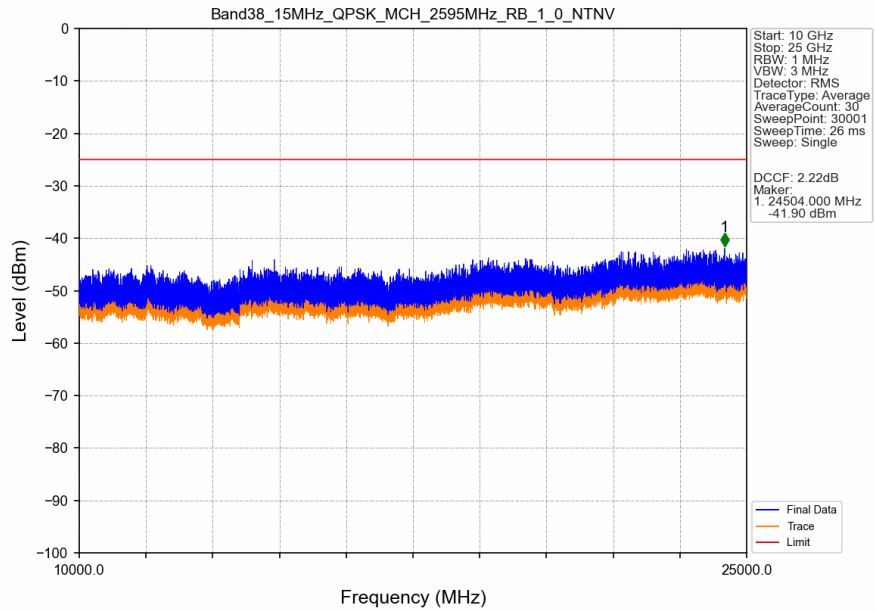


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.000	-55.57	-25	Pass
2490.5	2496	1	CHP	2	2496.000	-54.68	-13	Pass
2496	2550.878	1	CHP	3	2550.800	-42.22	-25	Pass
2550.878	2565	1	CHP	4	2564.200	-23.47	-13	Pass
2565	2569	1	CHP	5	2567.400	-19.96	-10	Pass
2569	2570	0.382	CHP	6	2569.800	-23.54	-10	Pass
2570	2585	0.382	CHP	/	/	/	/	/

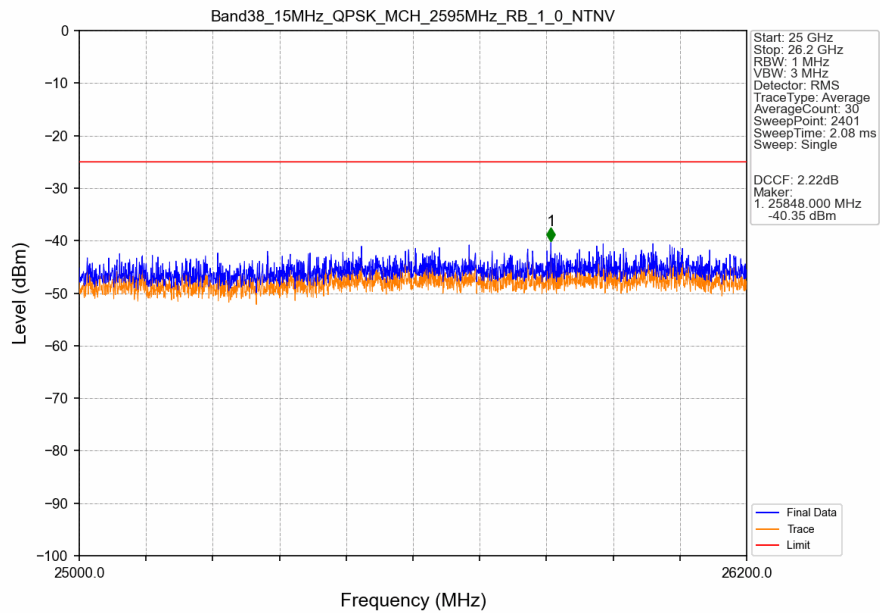
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTN



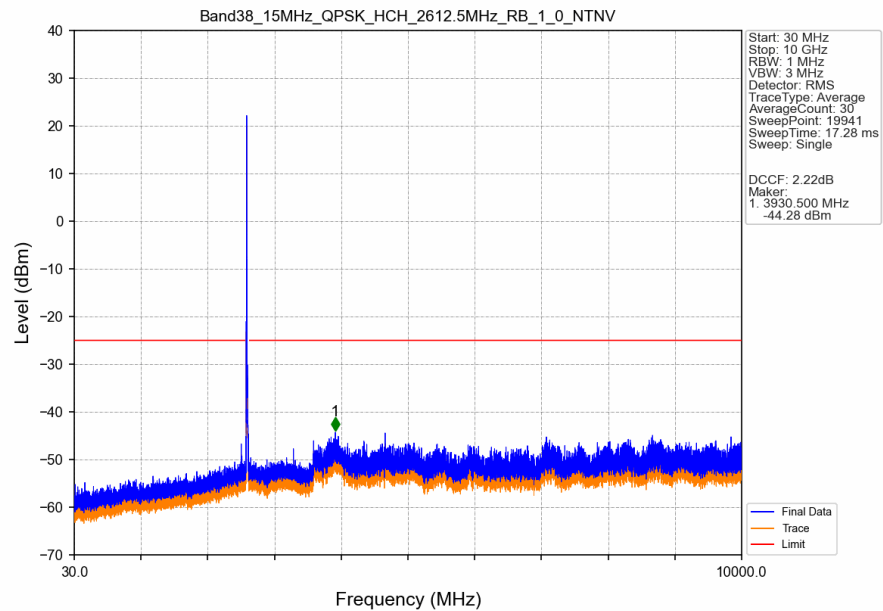
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



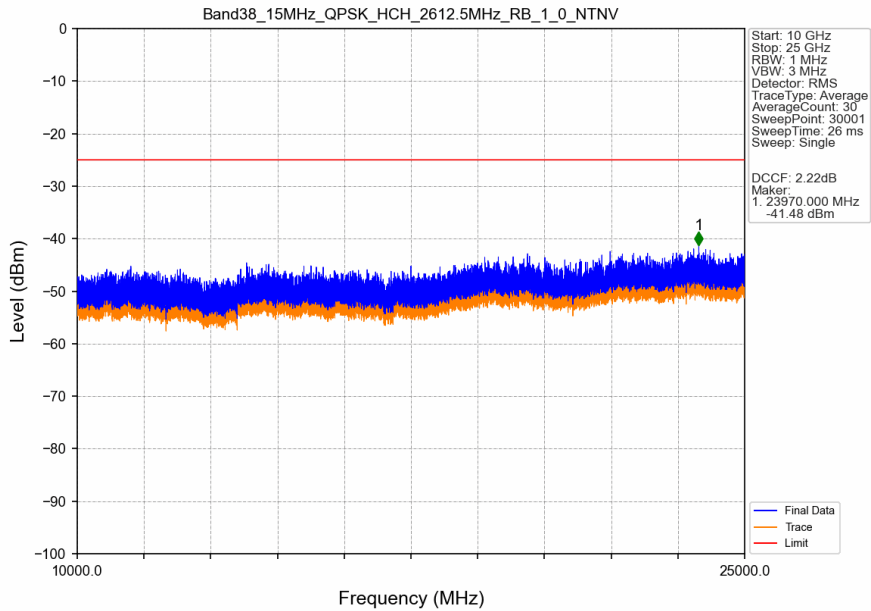
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



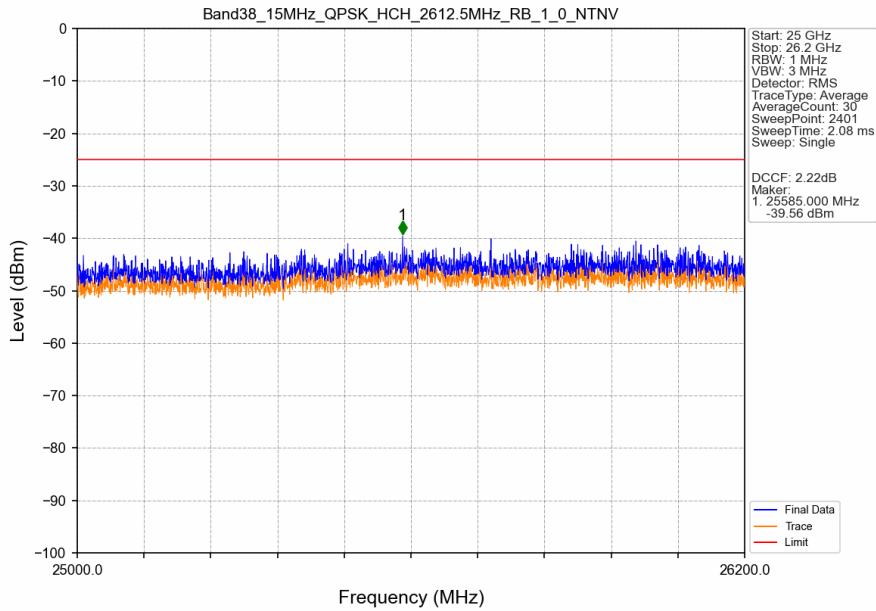
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



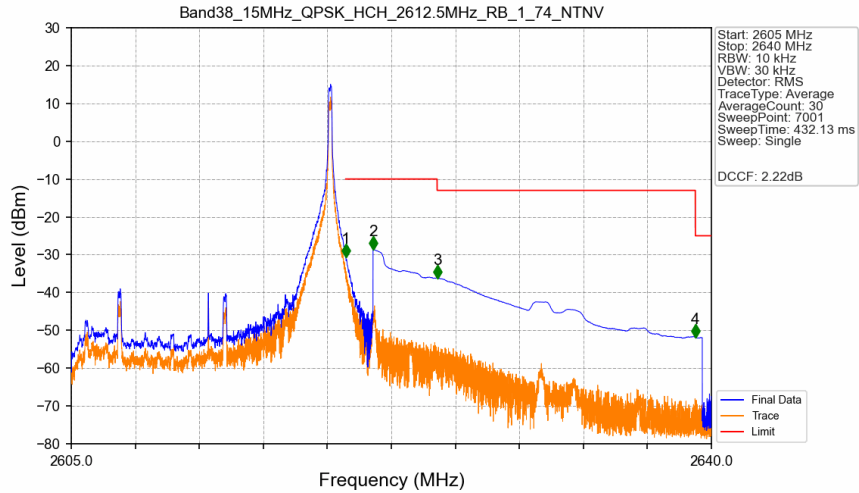
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38 15MHz QPSK HCH 2612.5MHz RB 1 0 NTNV

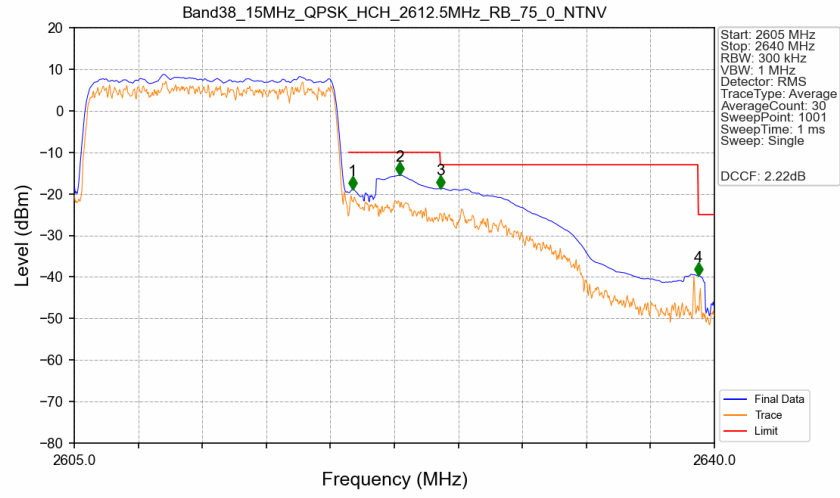


Band38 15MHz QPSK HCH 2612.5MHz RB 1 74 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-30.60	-10	Pass
2621	2625	1	CHP	2	2621.500	-28.57	-10	Pass
2625	2639.122	1	CHP	3	2625.005	-36.19	-13	Pass
2639.122	2640	1	CHP	4	2639.125	-51.88	-25	Pass

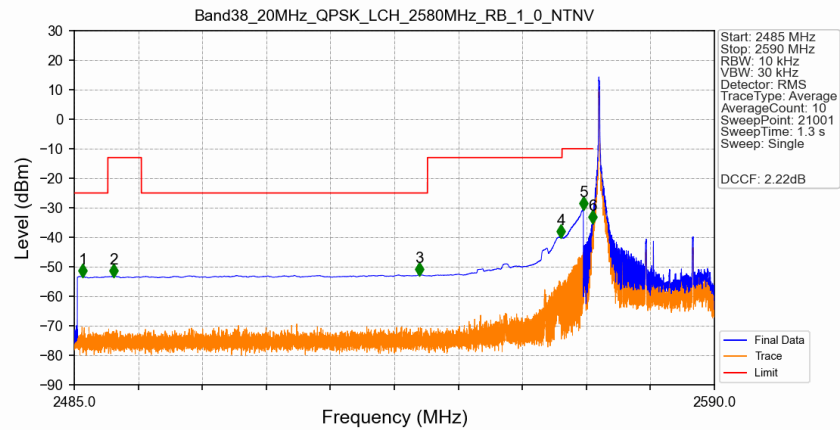
Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.382	CHP	/	/	/	/	/
2620	2621	0.382	CHP	1	2620.225	-18.90	-10	Pass
2621	2625	1	CHP	2	2622.780	-15.51	-10	Pass
2625	2639.122	1	CHP	3	2625.020	-18.68	-13	Pass
2639.122	2640	1	CHP	4	2639.125	-39.73	-25	Pass

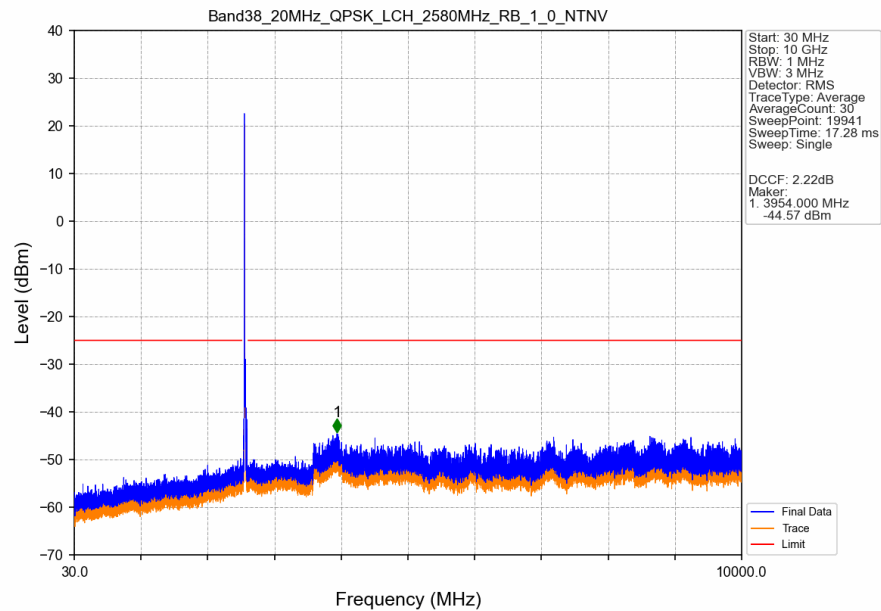
5.2.4 B38_20MHz

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

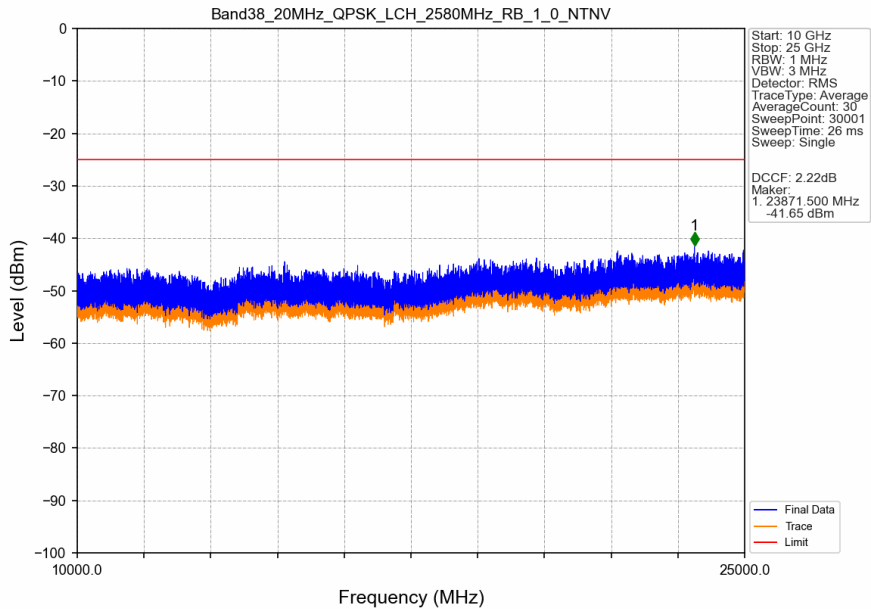


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.380	-53.23	-25	Pass
2490.5	2496	1	CHP	2	2491.485	-53.15	-13	Pass
2496	2542.937	1	CHP	3	2541.550	-52.69	-25	Pass
2542.937	2565	1	CHP	4	2564.855	-39.82	-13	Pass
2565	2569	1	CHP	5	2568.500	-30.42	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-34.99	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

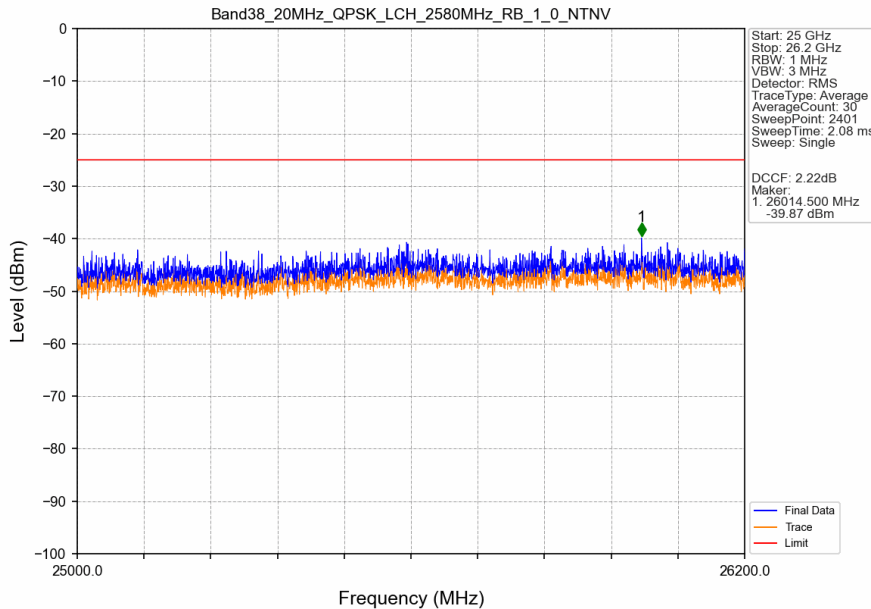
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



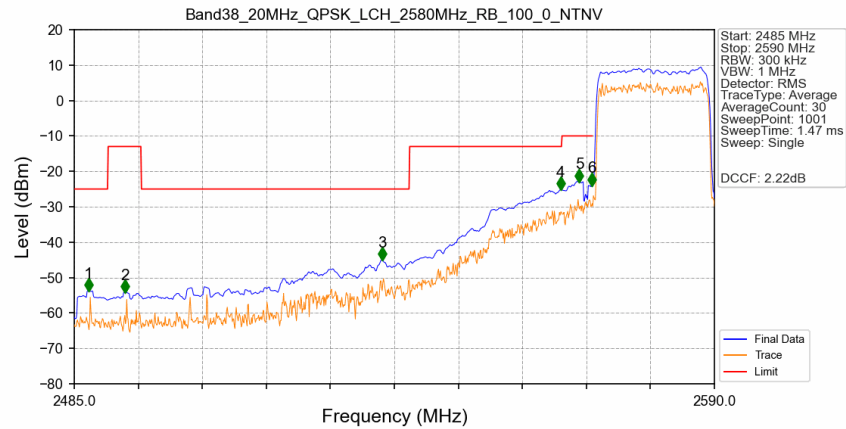
Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTN



Band38 20MHz QPSK LCH 2580MHz RB 1 0 NTN

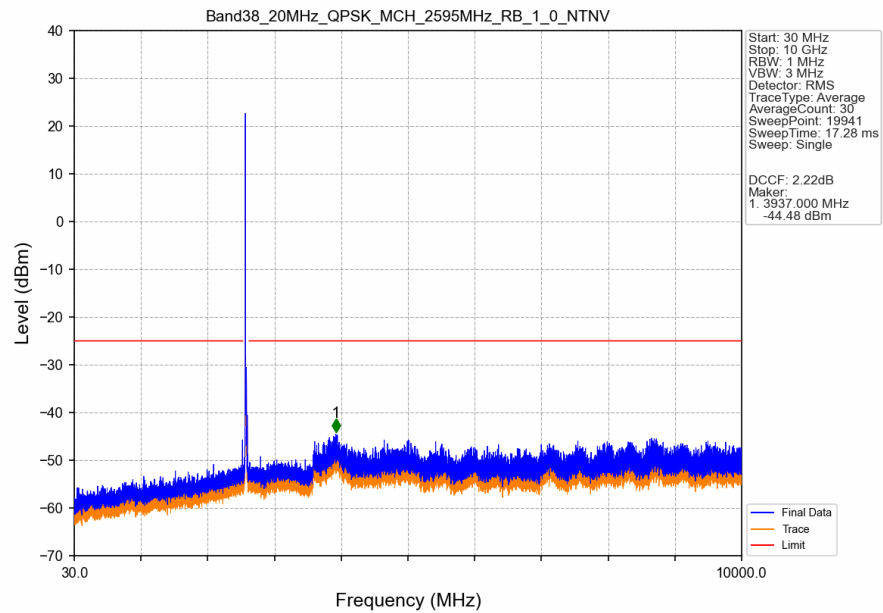


Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTV

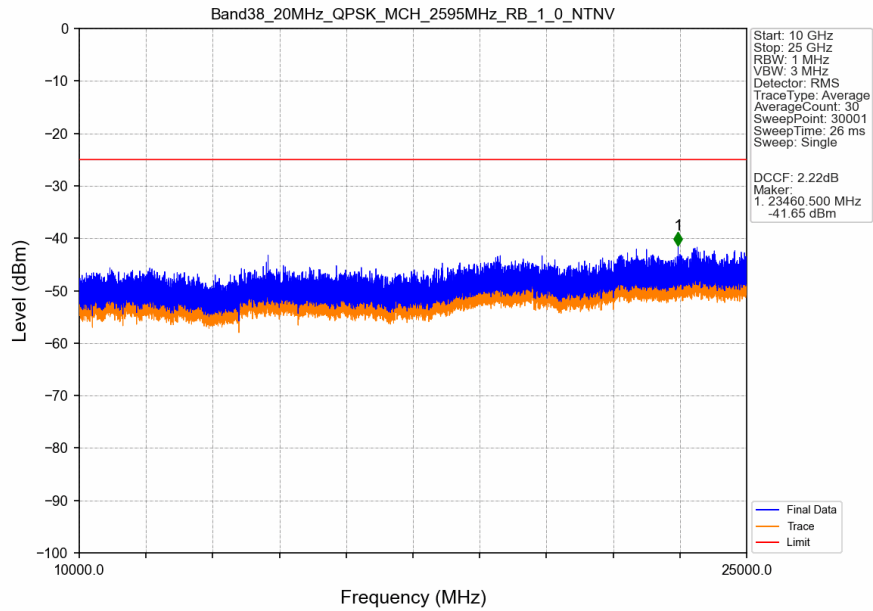


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.310	-53.65	-25	Pass
2490.5	2496	1	CHP	2	2493.295	-54.03	-13	Pass
2496	2539.96	1	CHP	3	2535.505	-44.90	-25	Pass
2539.96	2565	1	CHP	4	2564.800	-25.01	-13	Pass
2565	2569	1	CHP	5	2567.845	-22.76	-10	Pass
2569	2570	0.601	CHP	6	2569.945	-23.79	-10	Pass
2570	2590	0.601	CHP	/	/	/	/	/

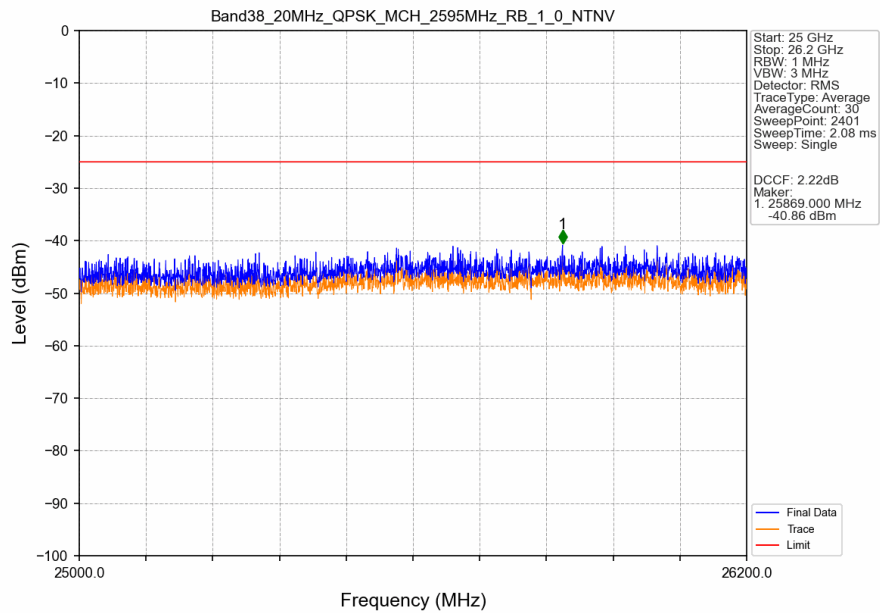
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



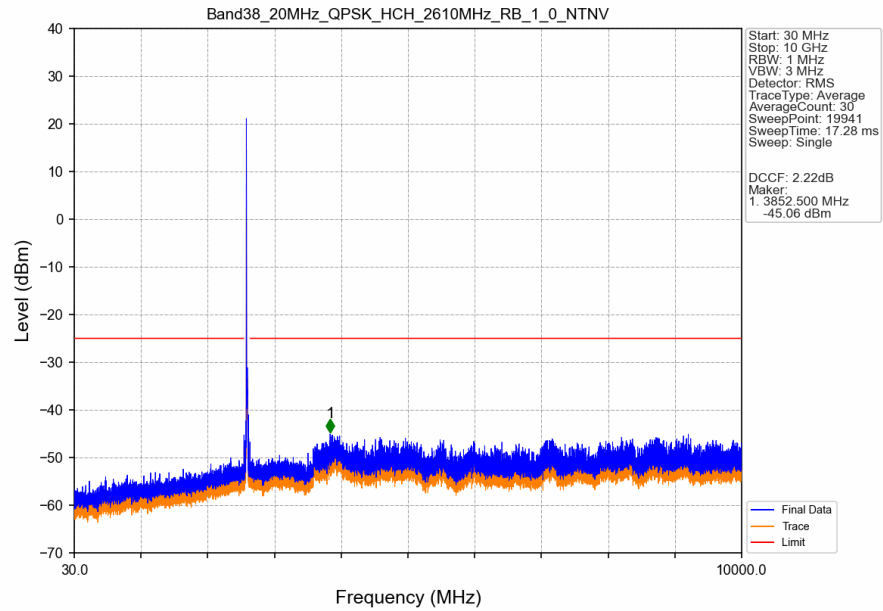
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



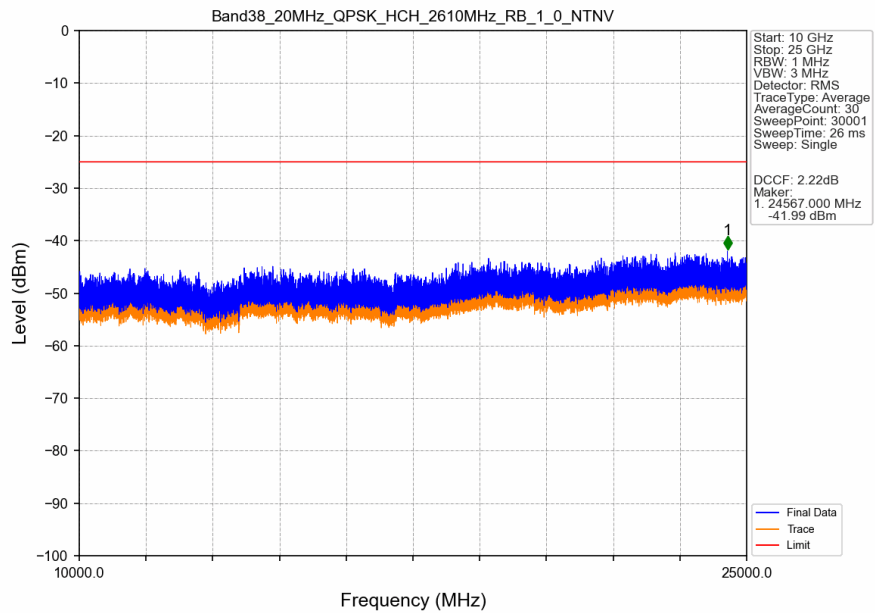
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



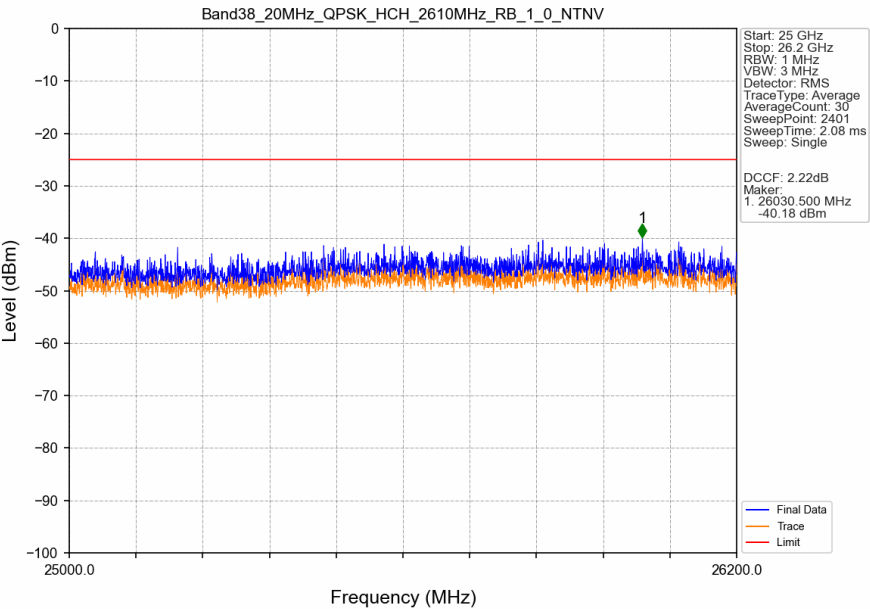
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



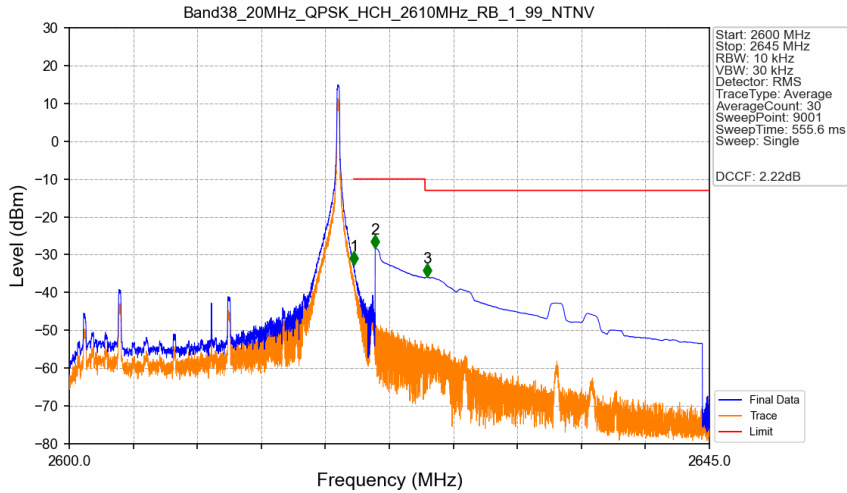
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTV



Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV

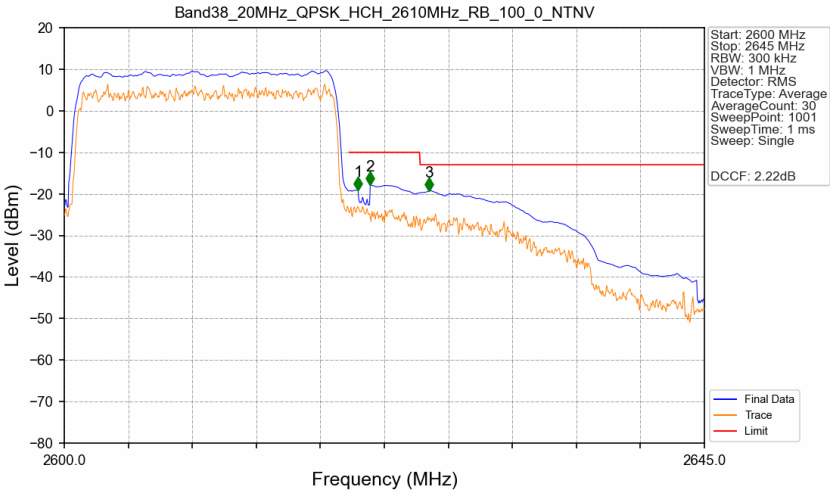


Band38 20MHz QPSK HCH 2610MHz RB 1 99 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-32.60	-10	Pass
2621	2625	1	CHP	2	2621.515	-28.17	-10	Pass
2625	2645	1	CHP	3	2625.180	-35.87	-13	Pass

Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.601	CHP	/	/	/	/	/
2620	2621	0.601	CHP	1	2620.655	-19.03	-10	Pass
2621	2625	1	CHP	2	2621.510	-17.82	-10	Pass
2625	2645	1	CHP	3	2625.650	-19.24	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 38 ANT31-Low channel, Modulation: QPSK, Bandwidth:20MHz, 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
5142.0	-58.75	-25	-33.75	-64.36	4.62	10.23	Horizontal	Pass
7713.0	-59.5	-25	-34.5	-66.53	4.96	11.99	Horizontal	Pass
12872.44	-48.67	-25	-23.67	-56.14	5.97	13.44	Horizontal	Pass
5142.0	-58.88	-25	-33.88	-64.49	4.62	10.23	Vertical	Pass
7713.0	-59.6	-25	-34.6	-66.63	4.96	11.99	Vertical	Pass
12872.44	-44.16	-25	-19.16	-51.63	5.97	13.44	Vertical	Pass

LTE Band 38 ANT31-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 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
5172.0	-60.5	-25	-35.5	-66.12	4.63	10.25	Horizontal	Pass
7758.0	-59.25	-25	-34.25	-66.33	4.96	12.04	Horizontal	Pass
12947.07	-49.46	-25	-24.46	-56.96	5.98	13.48	Horizontal	Pass
5172.0	-59.96	-25	-34.96	-65.58	4.63	10.25	Vertical	Pass
7758.0	-58.89	-25	-33.89	-65.97	4.96	12.04	Vertical	Pass
12947.07	-44.2	-25	-19.2	-51.7	5.98	13.48	Vertical	Pass

LTE Band 38 ANT31-High channel, Modulation: QPSK, Bandwidth:20MHz, 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
5202.0	-62.33	-25	-37.33	-67.97	4.63	10.27	Horizontal	Pass
7803.0	-59.0	-25	-34.0	-66.14	4.96	12.1	Horizontal	Pass
13022.13	-50.58	-25	-25.58	-58.14	5.98	13.54	Horizontal	Pass
5202.0	-62.01	-25	-37.01	-67.65	4.63	10.27	Vertical	Pass
7803.0	-59.04	-25	-34.04	-66.18	4.96	12.1	Vertical	Pass
13022.13	-46.99	-25	-21.99	-54.55	5.98	13.54	Vertical	Pass

Test on the worst case :

LTE Band 38 ANT31-Low channel, Modulation: QPSK, Bandwidth:20MHz, 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
5142.0	-55.89	-25	-30.89	-61.5	4.62	10.23	Horizontal	Pass
7713.0	-58.36	-25	-33.36	-65.39	4.96	11.99	Horizontal	Pass
12872.44	-47.77	-25	-22.77	-55.24	5.97	13.44	Horizontal	Pass
5142.0	-56.23	-25	-31.23	-61.84	4.62	10.23	Vertical	Pass
7713.0	-57.65	-25	-32.65	-64.68	4.96	11.99	Vertical	Pass
12872.44	-46.71	-25	-21.71	-54.18	5.97	13.44	Vertical	Pass

LTE Band 38 ANT31-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 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
5172.0	-57.6	-25	-32.6	-63.22	4.63	10.25	Horizontal	Pass
7758.0	-57.23	-25	-32.23	-64.31	4.96	12.04	Horizontal	Pass
12947.07	-48.81	-25	-23.81	-56.31	5.98	13.48	Horizontal	Pass
5172.0	-57.18	-25	-32.18	-62.8	4.63	10.25	Vertical	Pass
7758.0	-56.37	-25	-31.37	-63.45	4.96	12.04	Vertical	Pass
12947.07	-44.41	-25	-19.41	-51.91	5.98	13.48	Vertical	Pass

LTE Band 38 ANT31-High channel, Modulation: QPSK, Bandwidth:20MHz, 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
5202.0	-60.87	-25	-35.87	-66.51	4.63	10.27	Horizontal	Pass
7803.0	-56.96	-25	-31.96	-64.1	4.96	12.1	Horizontal	Pass
13022.13	-51.1	-25	-26.1	-58.66	5.98	13.54	Horizontal	Pass
5202.0	-60.63	-25	-35.63	-66.27	4.63	10.27	Vertical	Pass
7803.0	-57.17	-25	-32.17	-64.31	4.96	12.1	Vertical	Pass
13022.13	-47.32	-25	-22.32	-54.88	5.98	13.54	Vertical	Pass