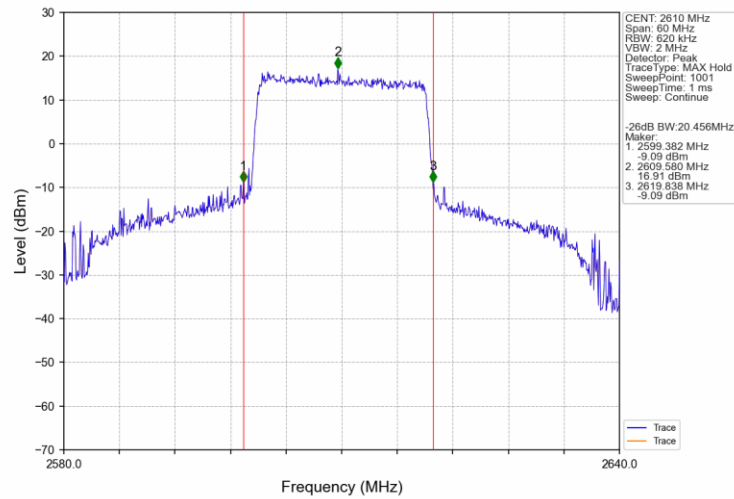
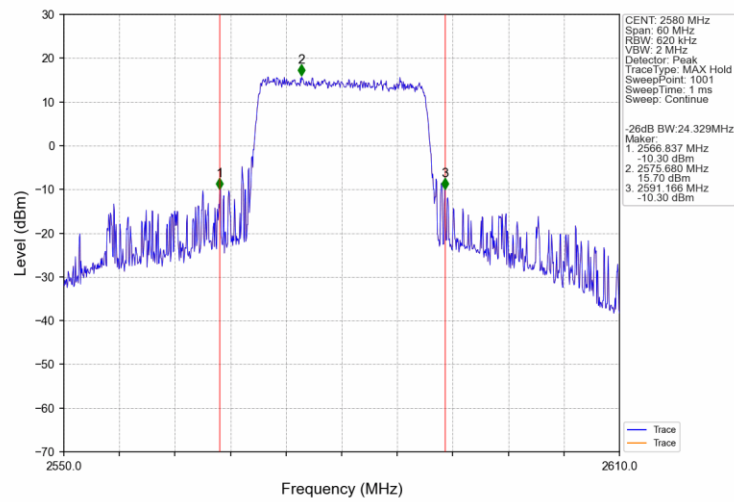


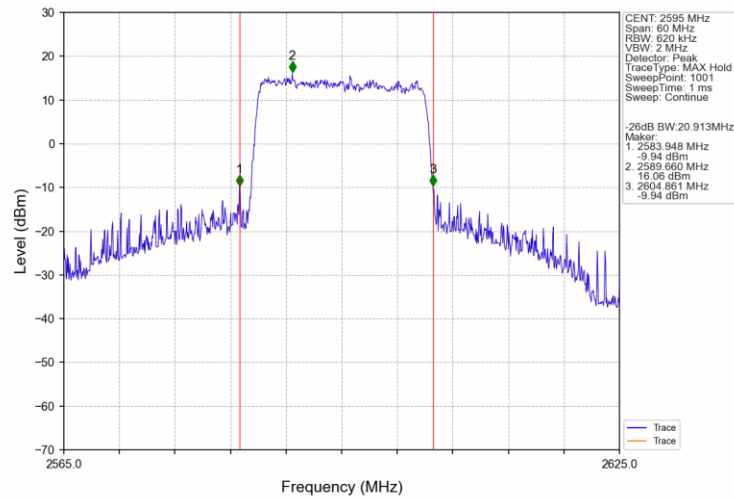
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



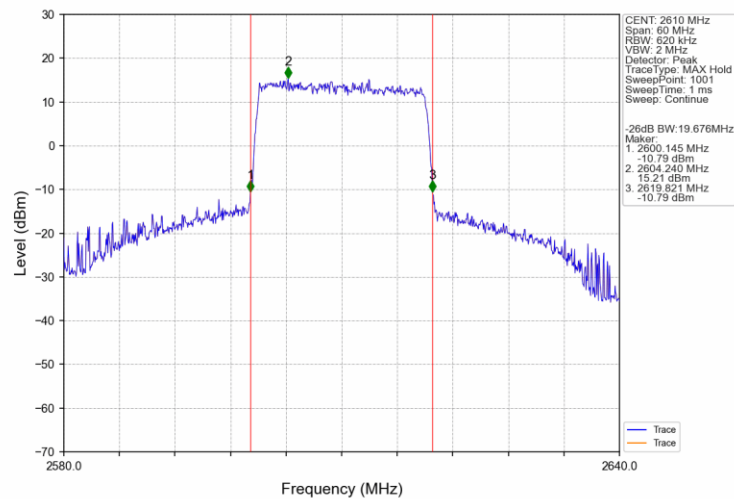
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



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



Band38 20MHz 16QAM HCH 2610MHz RB 100 0 NTN



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.52	<=13	Pass
	2595	25	0	7.24	<=13	Pass
	2617.5	25	0	6.55	<=13	Pass
16QAM	2572.5	25	0	8.16	<=13	Pass
	2595	25	0	7.75	<=13	Pass
	2617.5	25	0	7.35	<=13	Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.46	<=13	Pass
	2595	50	0	7.23	<=13	Pass
	2615	50	0	6.51	<=13	Pass
16QAM	2575	50	0	8.19	<=13	Pass
	2595	50	0	7.72	<=13	Pass
	2615	50	0	7.38	<=13	Pass

5.1.3 B38_15MHz

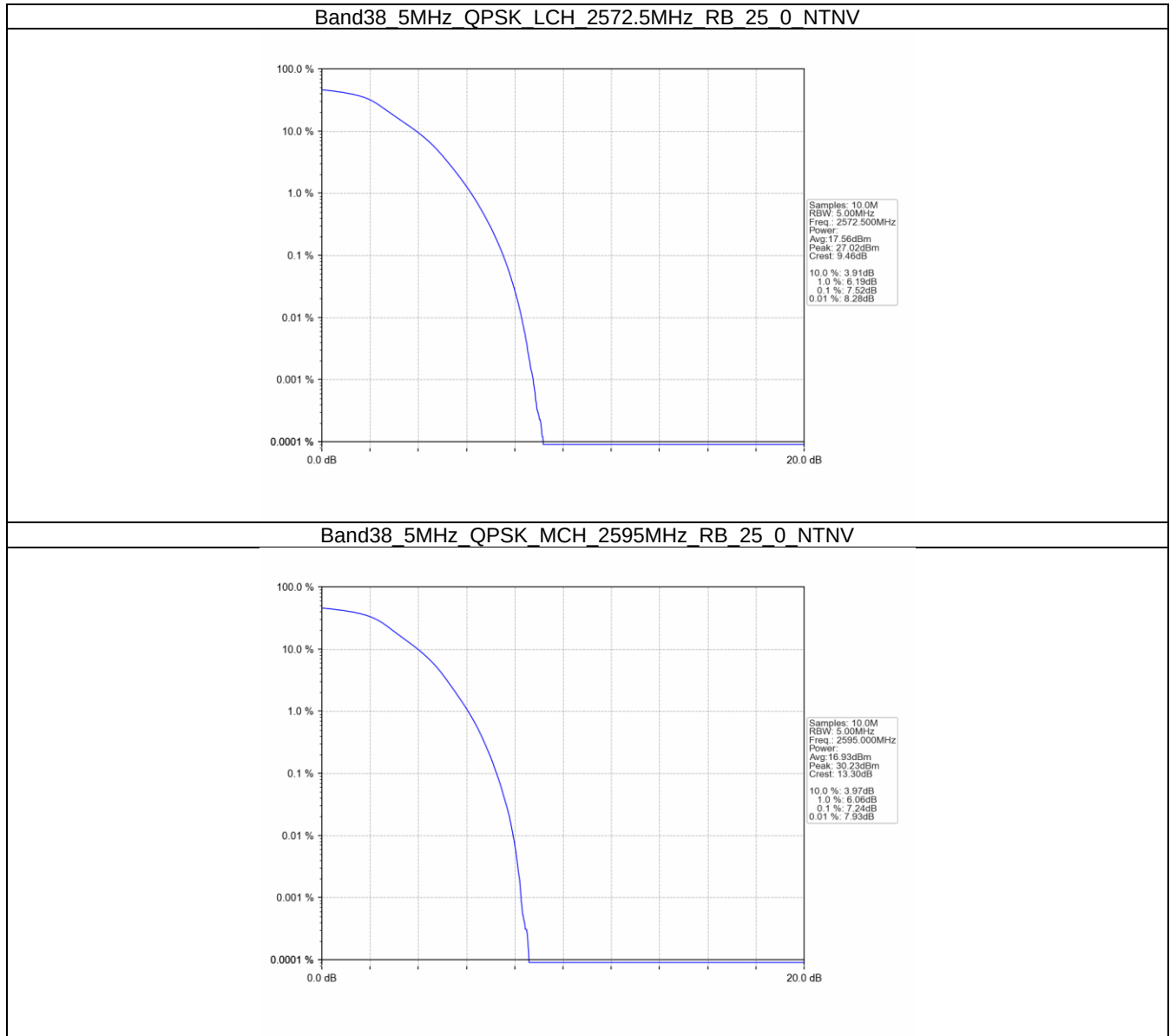
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.29	<=13	Pass
	2595	75	0	7.10	<=13	Pass
	2612.5	75	0	7.04	<=13	Pass
16QAM	2577.5	75	0	8.04	<=13	Pass
	2595	75	0	7.83	<=13	Pass
	2612.5	75	0	7.74	<=13	Pass

5.1.4 B38_20MHz

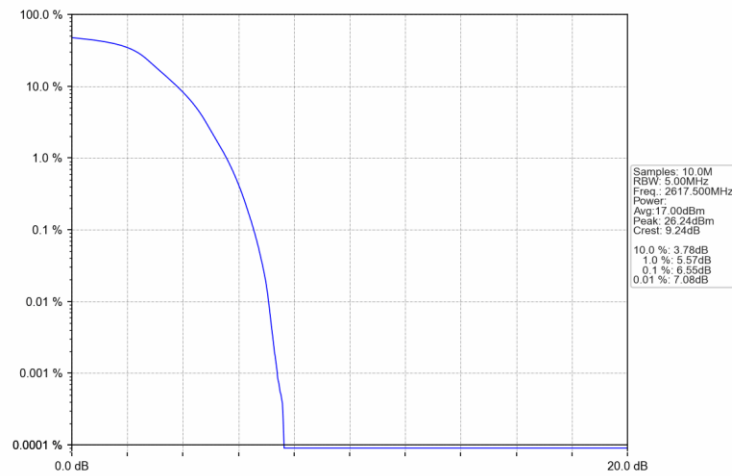
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.73	<=13	Pass
	2595	100	0	7.79	<=13	Pass
	2610	100	0	7.72	<=13	Pass
16QAM	2580	100	0	8.86	<=13	Pass
	2595	100	0	8.43	<=13	Pass
	2610	100	0	8.36	<=13	Pass

5.2 Test Graph

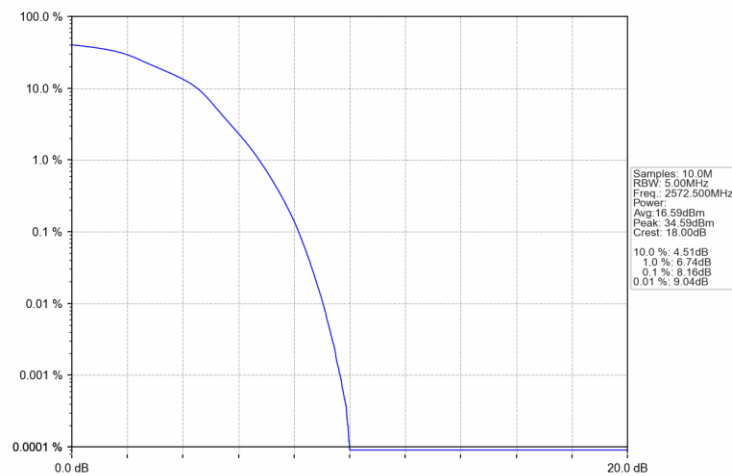
5.2.1 B38_5MHz



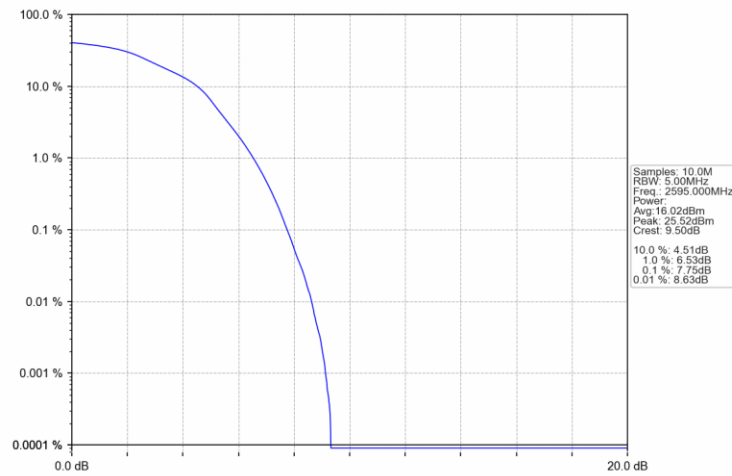
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



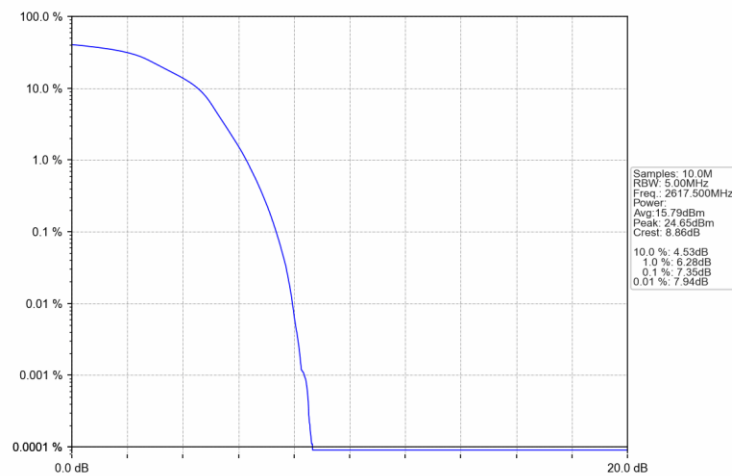
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV



Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTNV

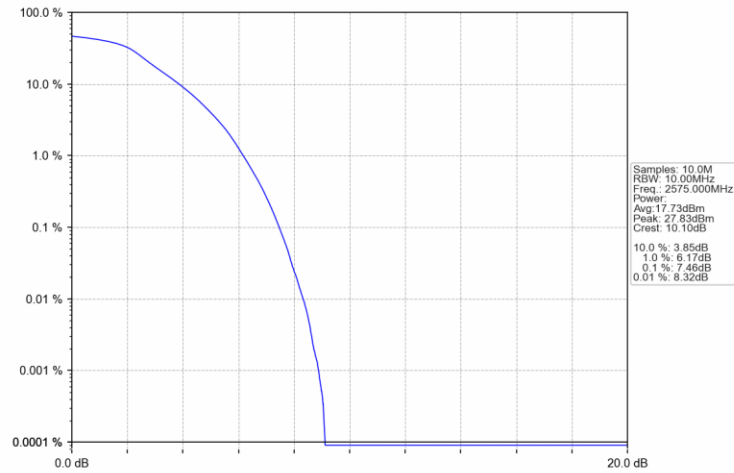


Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTNV

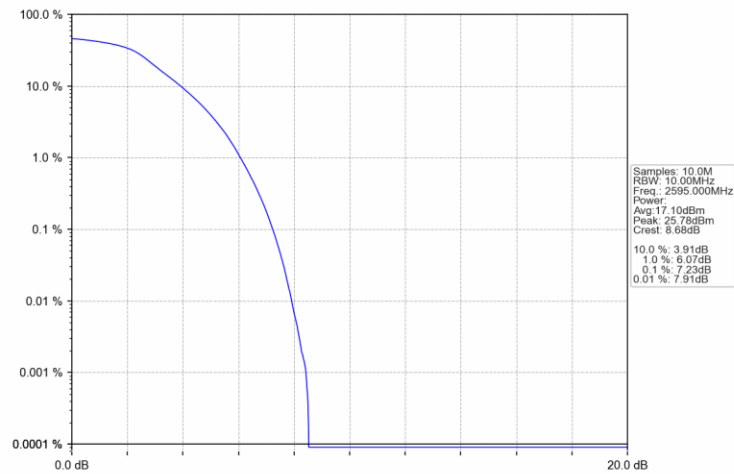


5.2.2 B38_10MHz

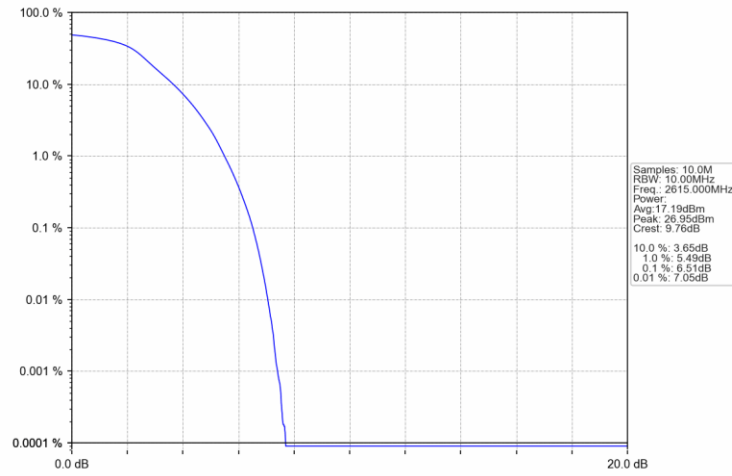
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



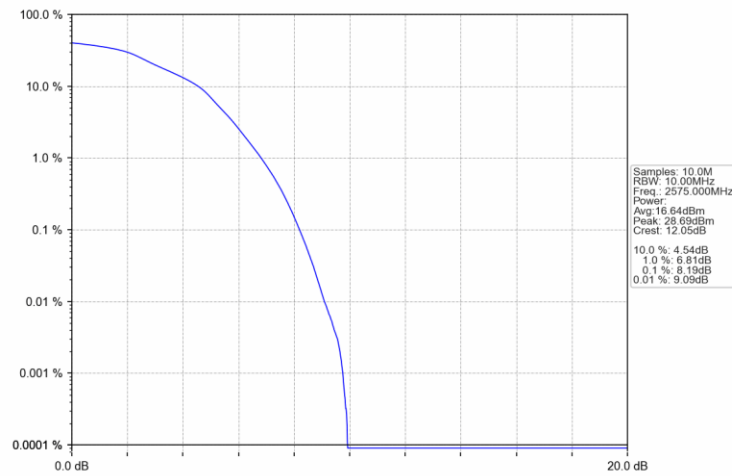
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



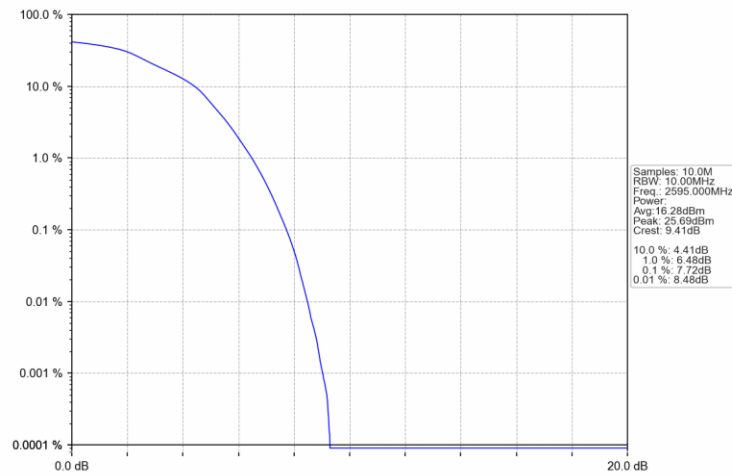
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



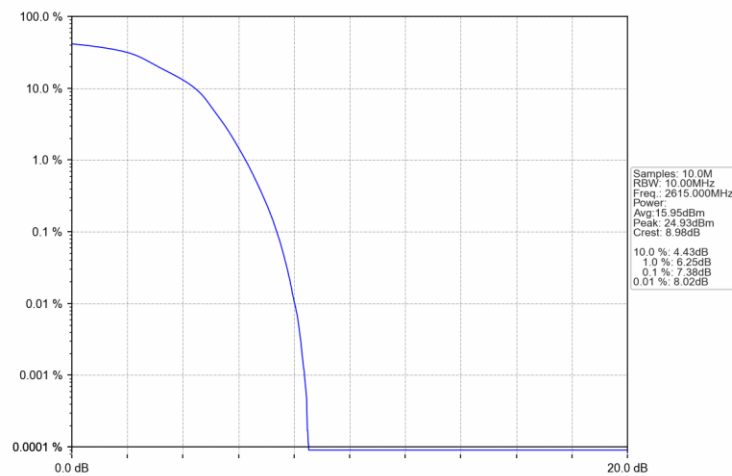
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN

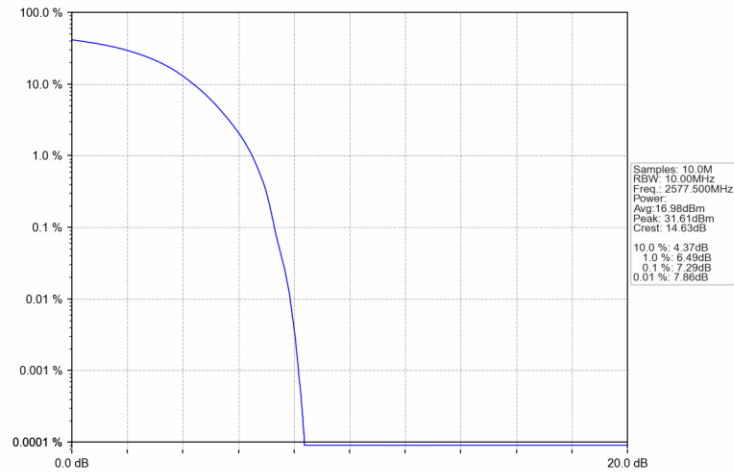


Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN

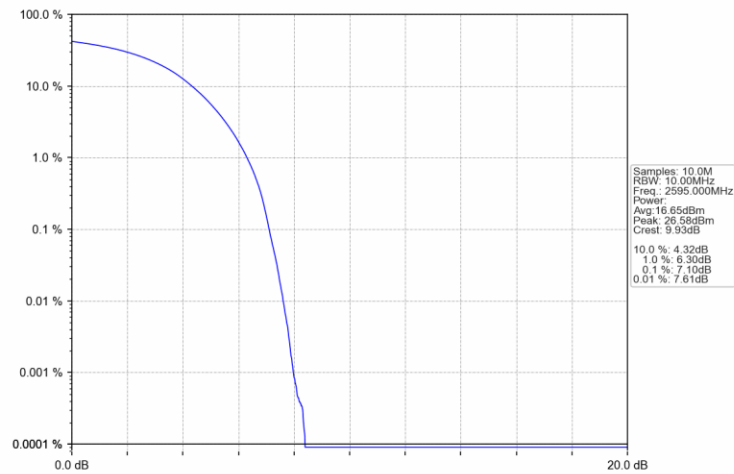


5.2.3 B38_15MHz

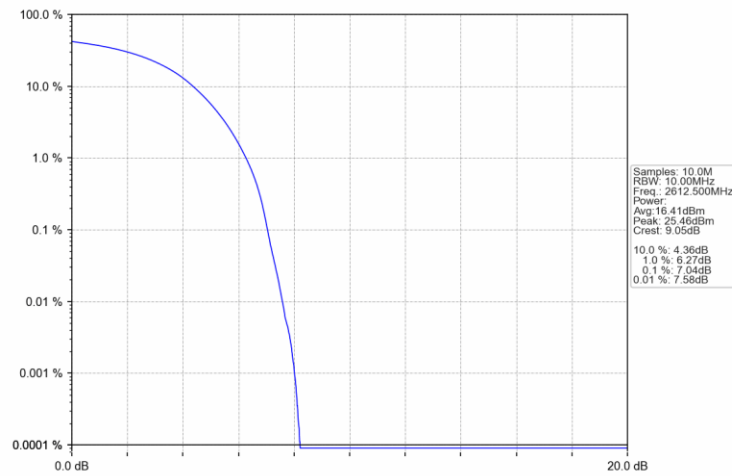
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



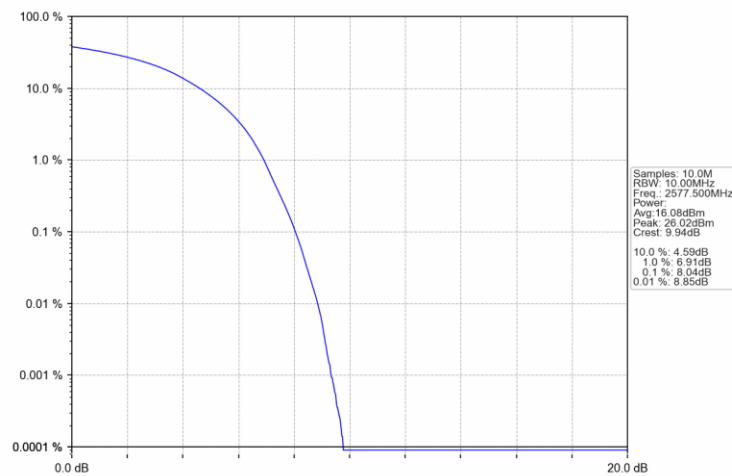
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



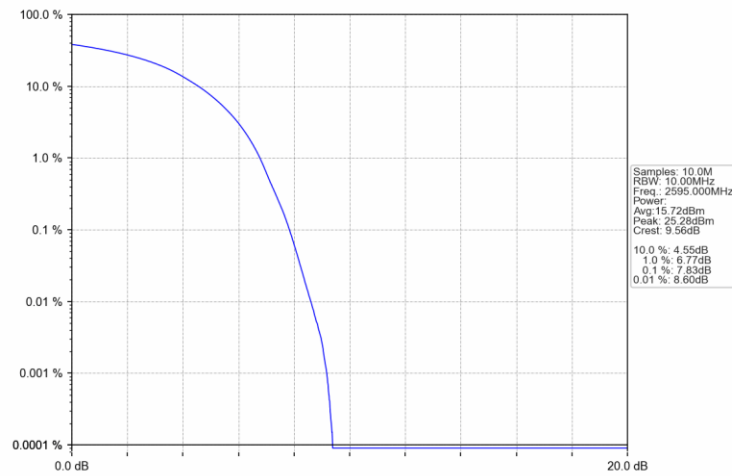
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



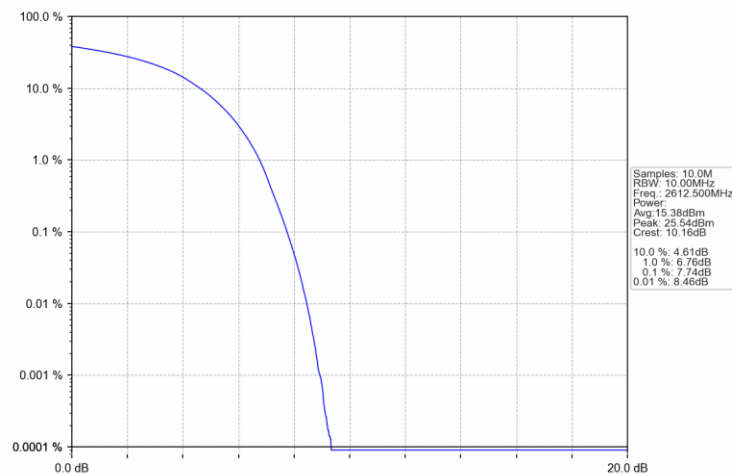
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



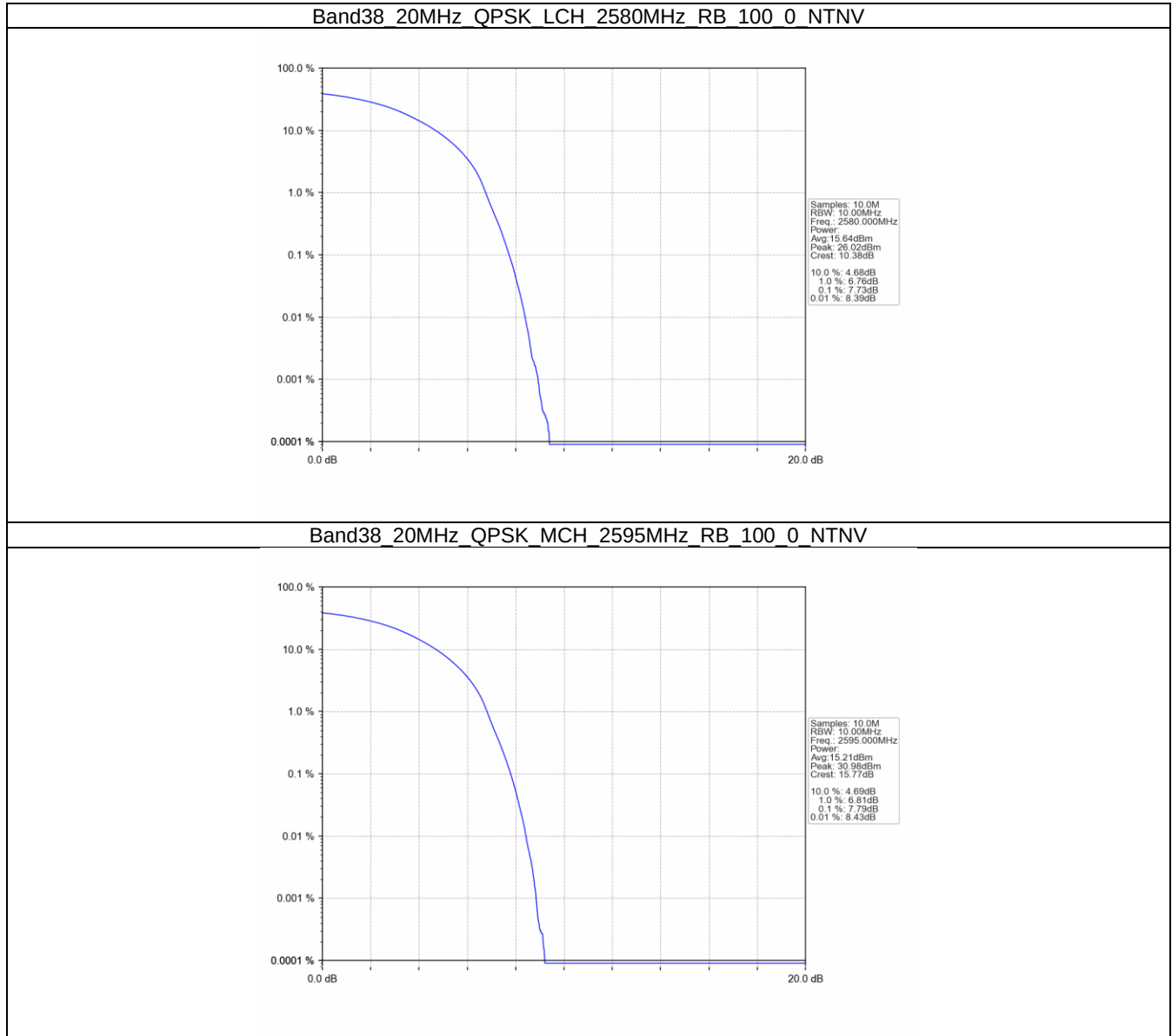
Band38 15MHz 16QAM MCH 2595MHz RB 75 0 NTN



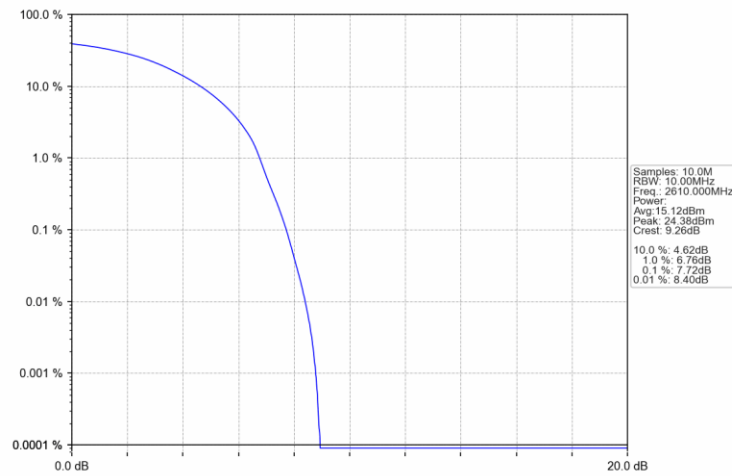
Band38 15MHz 16QAM HCH 2612.5MHz RB 75 0 NTN



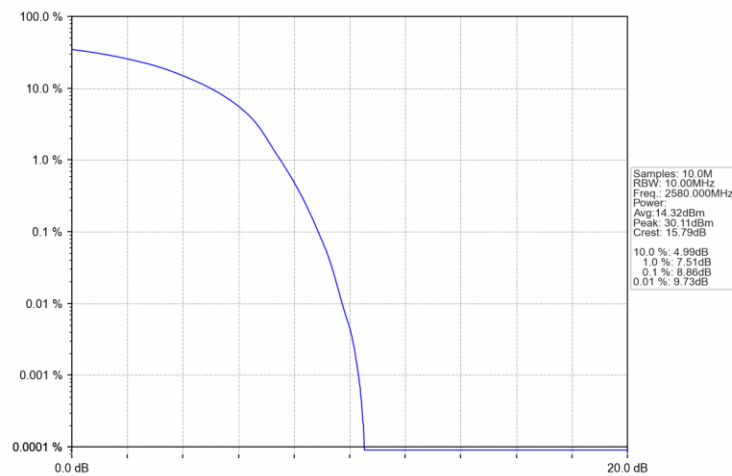
5.2.4 B38_20MHz



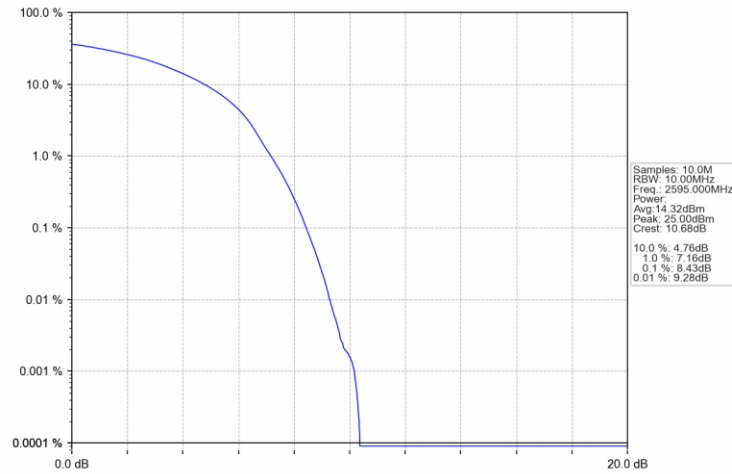
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



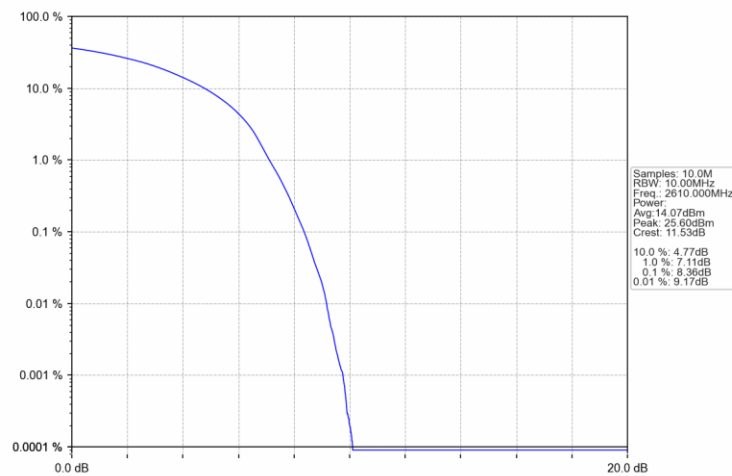
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
16QAM	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

6.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
16QAM	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

6.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
16QAM	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

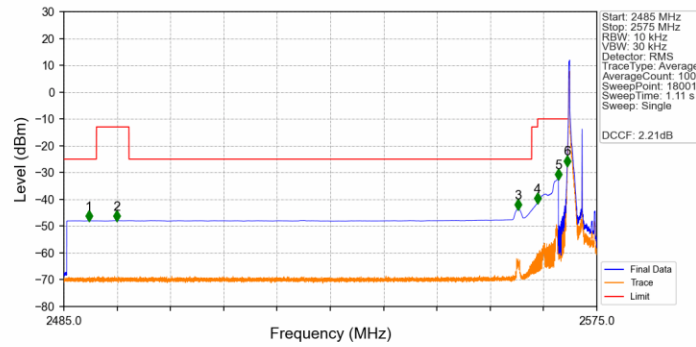
6.1.4 B38_20MHz

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
16QAM	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

6.2 Test Graph

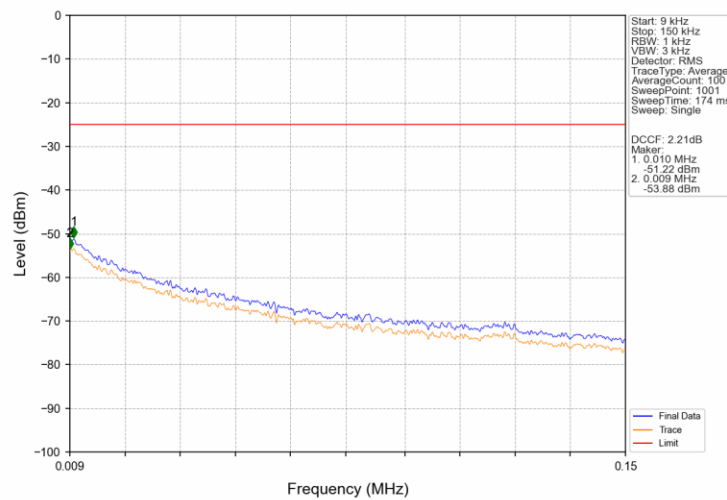
6.2.1 B38_5MHz

Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV

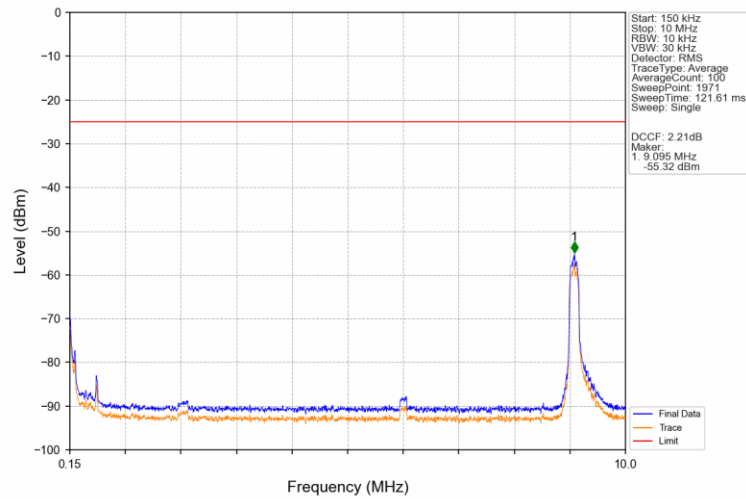


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.230	-47.99	-25	Pass
2490.5	2496	1	CHP	2	2493.940	-47.96	-13	Pass
2496	2504	1	CHP	3	2501.695	-43.64	-25	Pass
2504	2509	1	CHP	4	2506.000	-41.43	-13	Pass
2509	2514	1	CHP	5	2511.475	-32.34	-10	Pass
2514	2519	0.02	CHP	6	2519.995	-27.39	-10	Pass
2519	2525	0.02	CHP	/	/	/	/	/

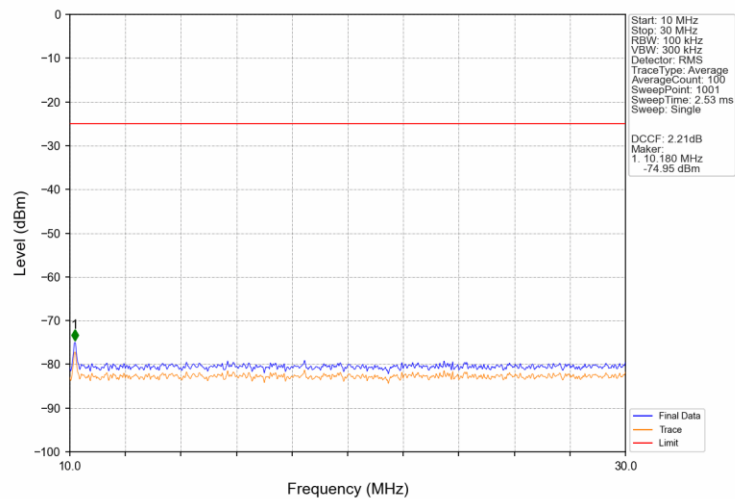
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



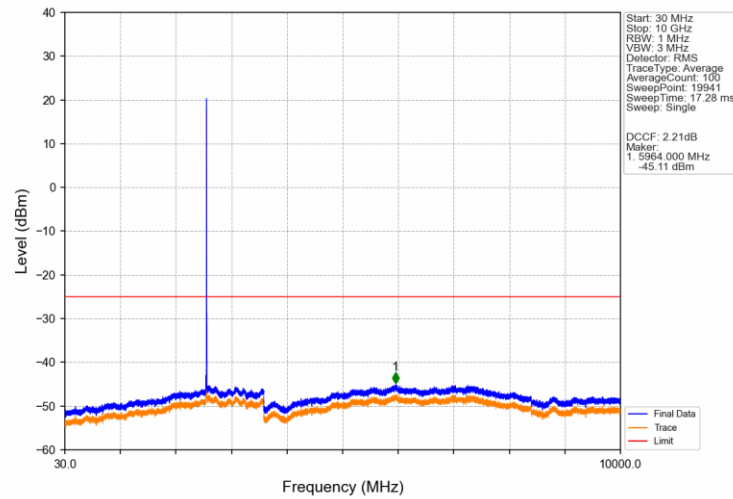
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



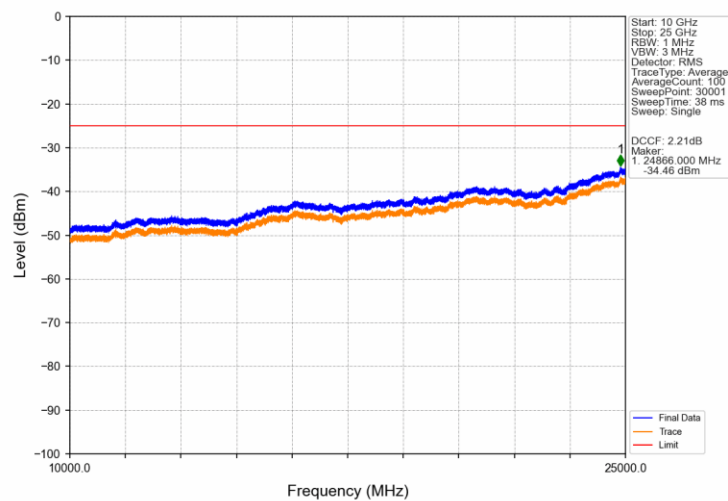
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



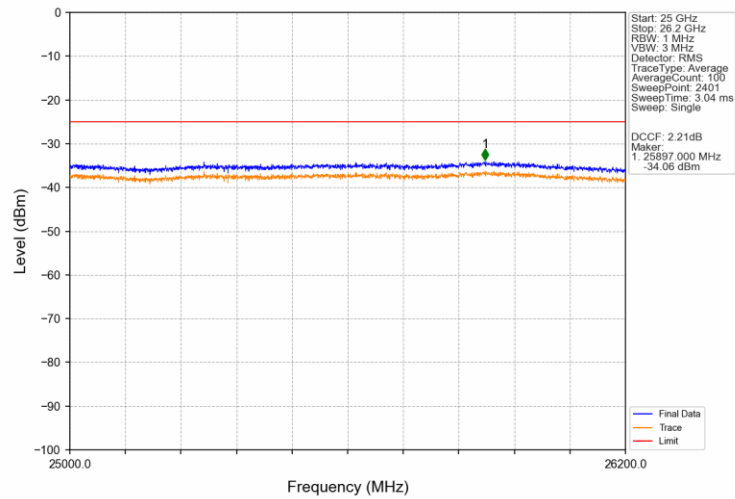
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



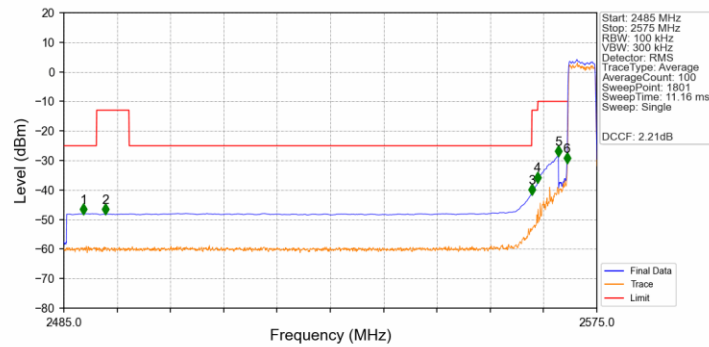
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV

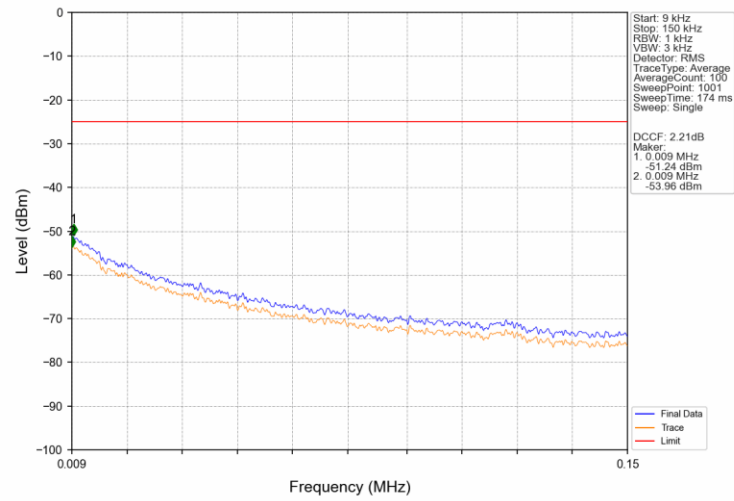


Band38 5MHz QPSK LCH 2572.5MHz RB 25 0 NTV

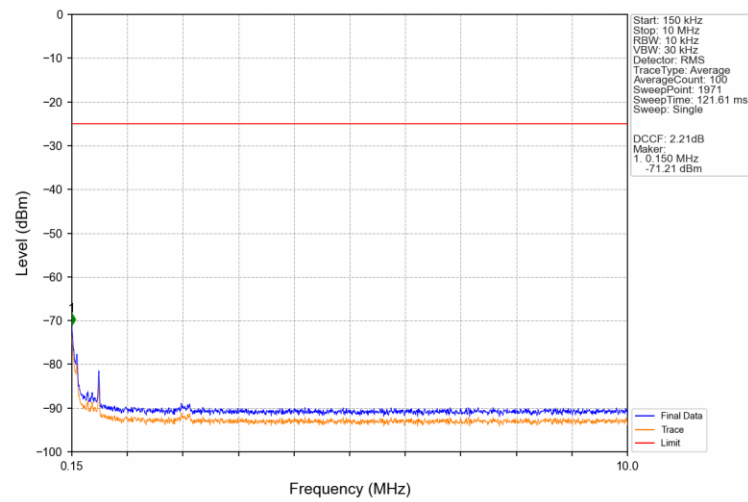


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.350	-48.00	-25	Pass
2490.5	2496	1	CHP	2	2492.050	-48.10	-13	Pass
2496	2564	1	CHP	3	2564.000	-41.38	-25	Pass
2564	2565	1	CHP	4	2565.000	-37.30	-13	Pass
2565	2569	1	CHP	5	2568.500	-28.45	-10	Pass
2569	2570	0.102	CHP	6	2569.950	-30.73	-10	Pass
2570	2575	0.102	CHP	/	/	/	/	/

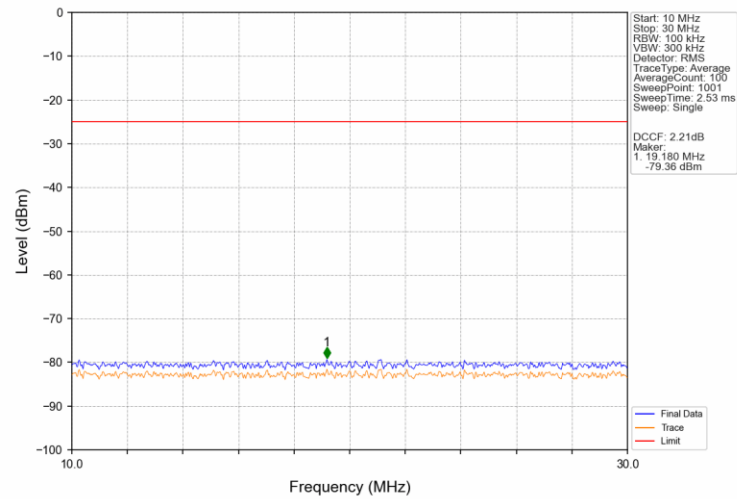
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



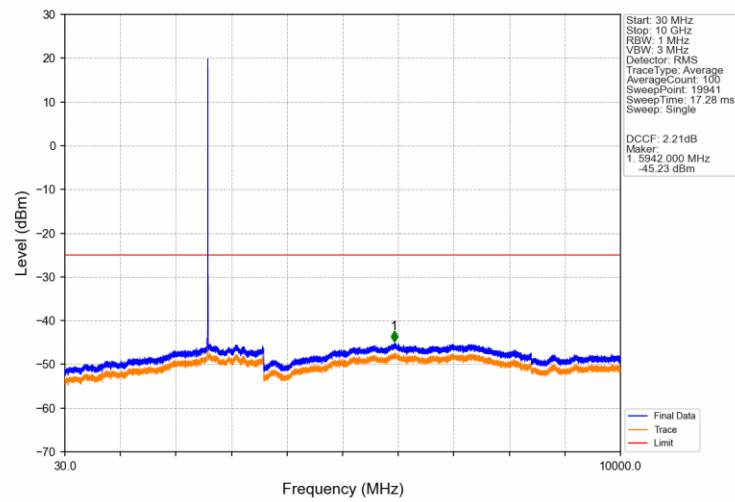
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



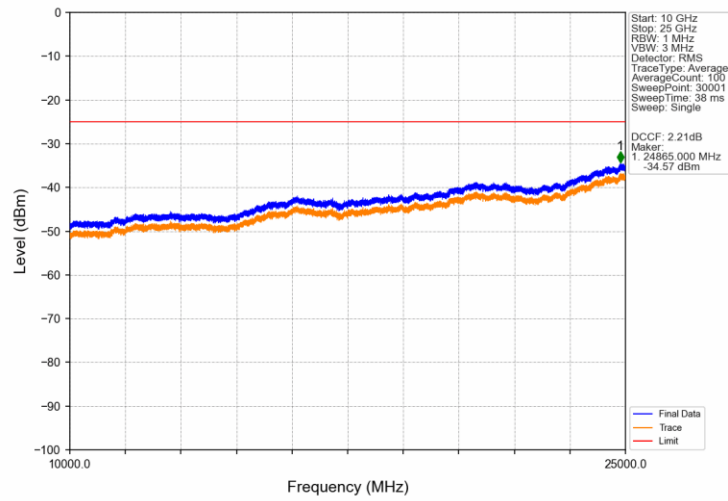
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



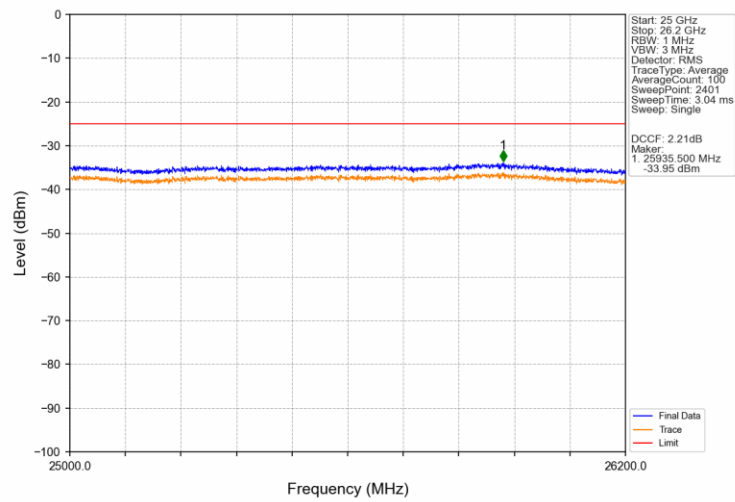
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



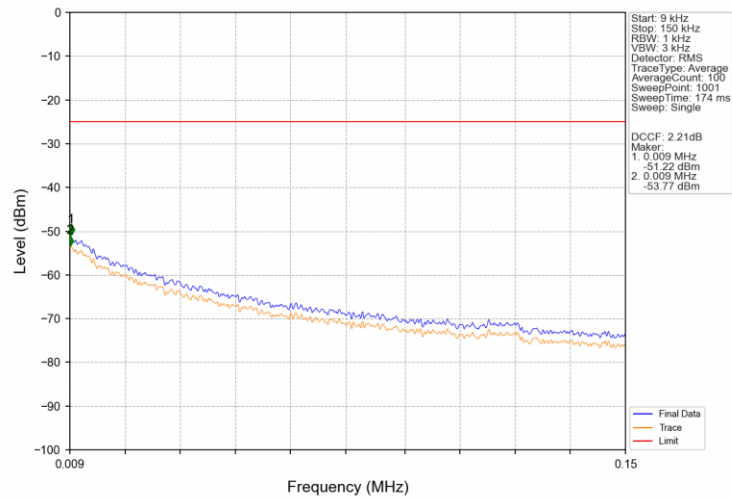
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



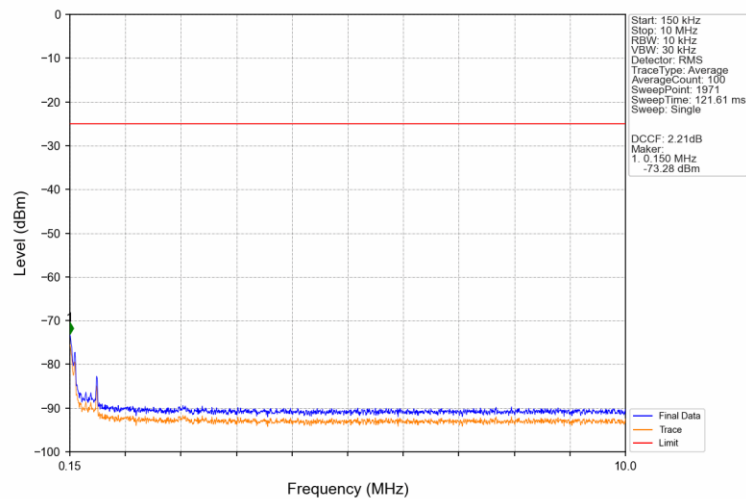
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



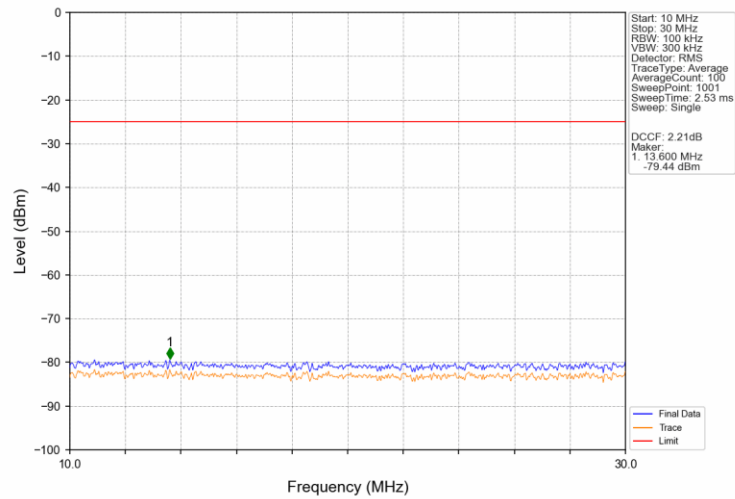
Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTV



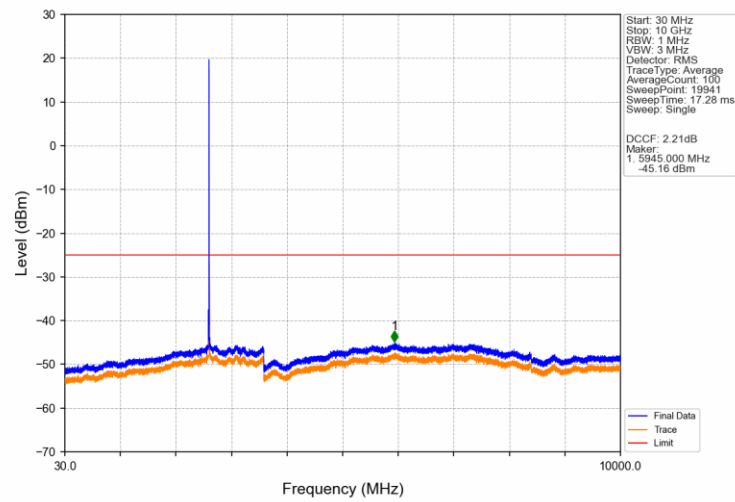
Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTV



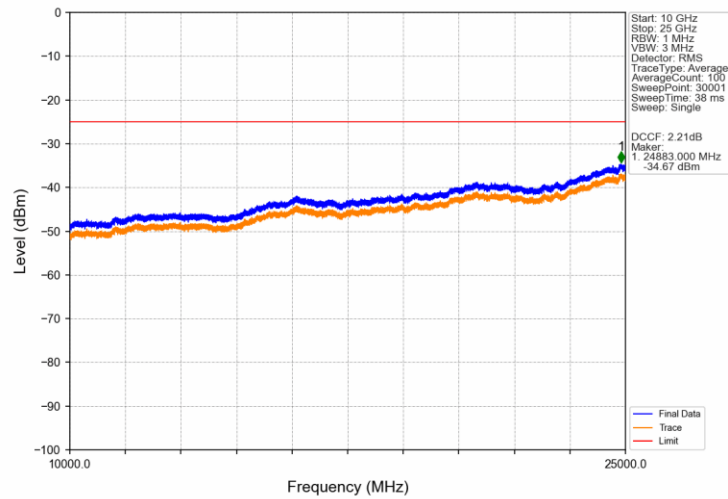
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



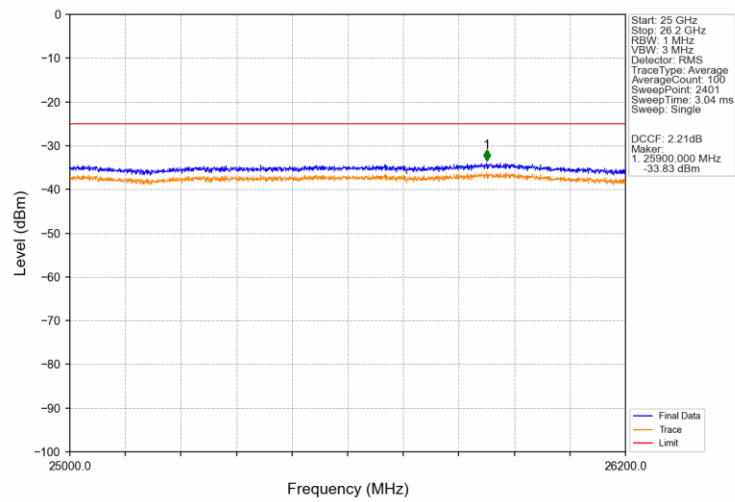
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



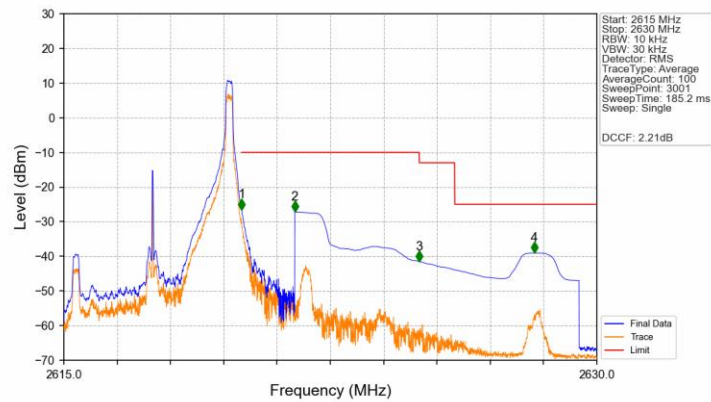
Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTV



Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTV

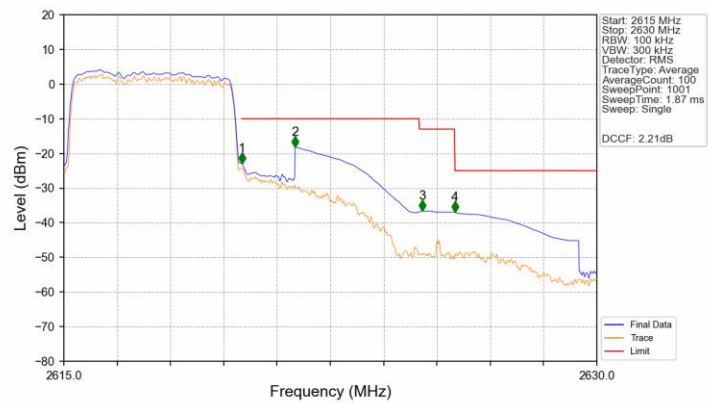


Band38 5MHz QPSK HCH 2617.5MHz RB 1 24 NTNV



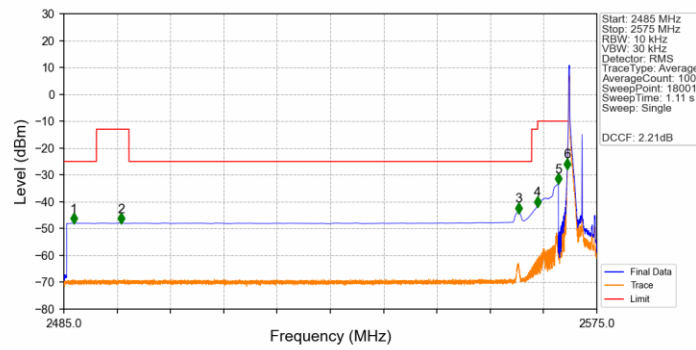
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-26.50	-10	Pass
2621	2625	1	CHP	2	2621.500	-27.19	-10	Pass
2625	2626	1	CHP	3	2625.005	-41.46	-13	Pass
2626	2630	1	CHP	4	2628.240	-39.04	-25	Pass

Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



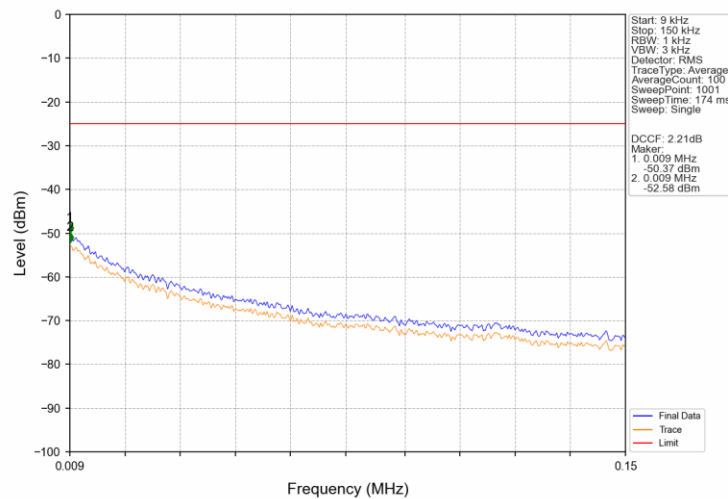
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.103	CHP	/	/	/	/	/
2620	2621	0.103	CHP	1	2620.010	-22.98	-10	Pass
2621	2625	1	CHP	2	2621.510	-18.20	-10	Pass
2625	2626	1	CHP	3	2625.080	-36.62	-13	Pass
2626	2630	1	CHP	4	2626.010	-37.04	-25	Pass

Band38 5MHz 16QAM LCH 2572.5MHz RB 1 0 NTNV

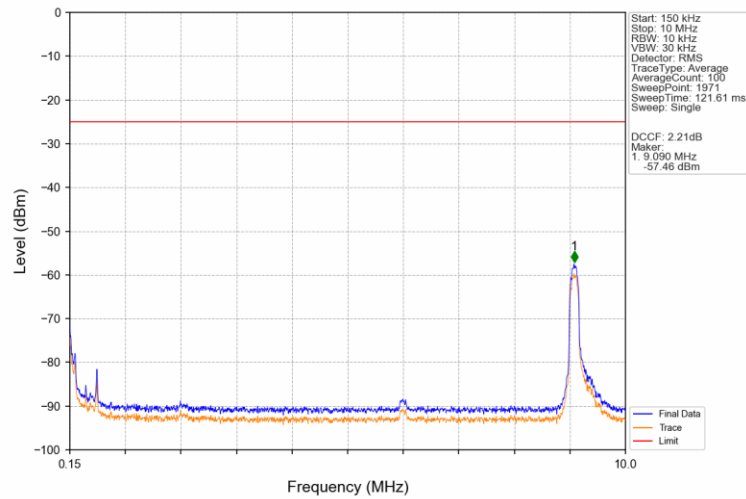


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.670	-47.98	-25	Pass
2490.5	2496	1	CHP	2	2494.700	-47.93	-13	Pass
2496	2564	1	CHP	3	2561.760	-44.02	-25	Pass
2564	2565	1	CHP	4	2565.000	-41.73	-13	Pass
2565	2569	1	CHP	5	2568.500	-33.20	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-27.58	-10	Pass
2570	2575	0.02	CHP	/	/	/	/	/

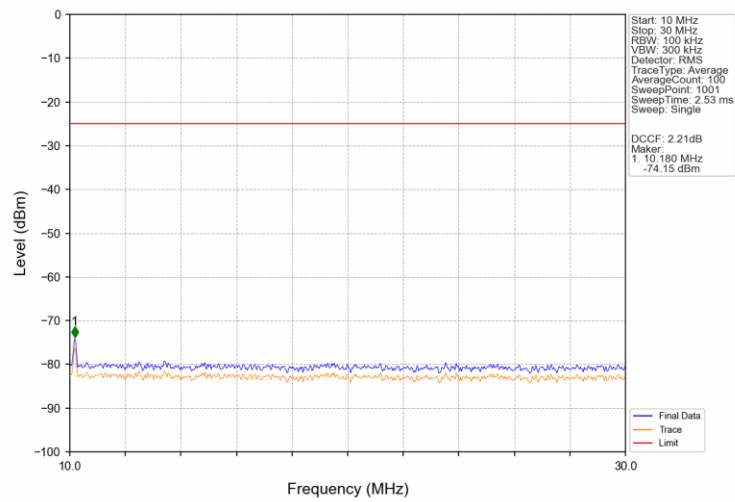
Band38 5MHz 16QAM LCH 2572.5MHz RB 1 0 NTNV



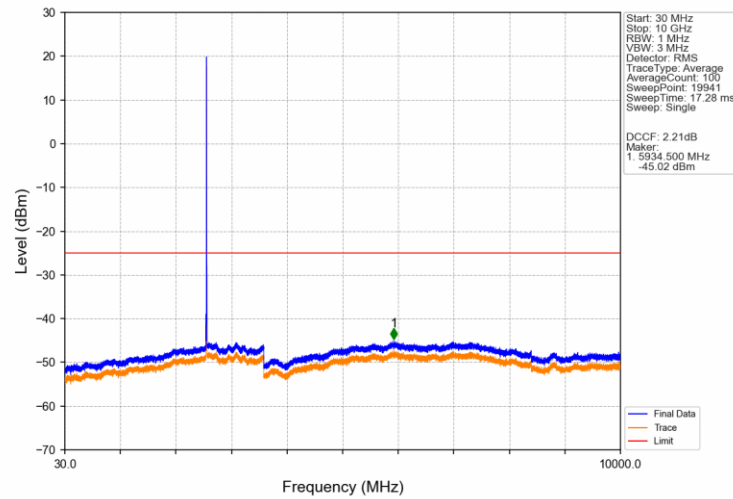
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



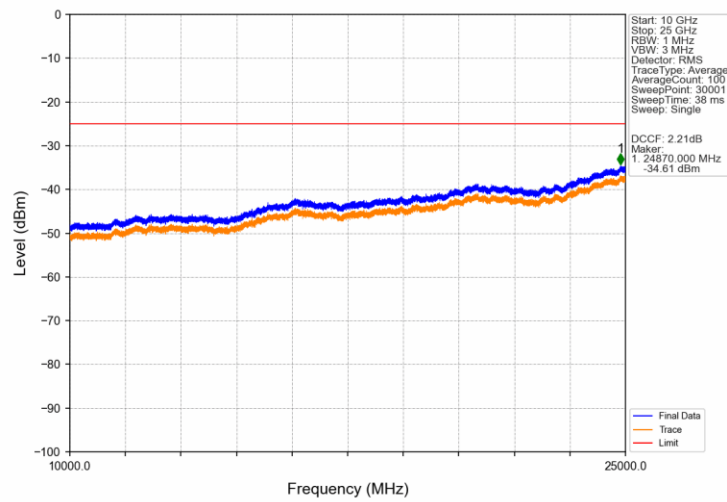
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



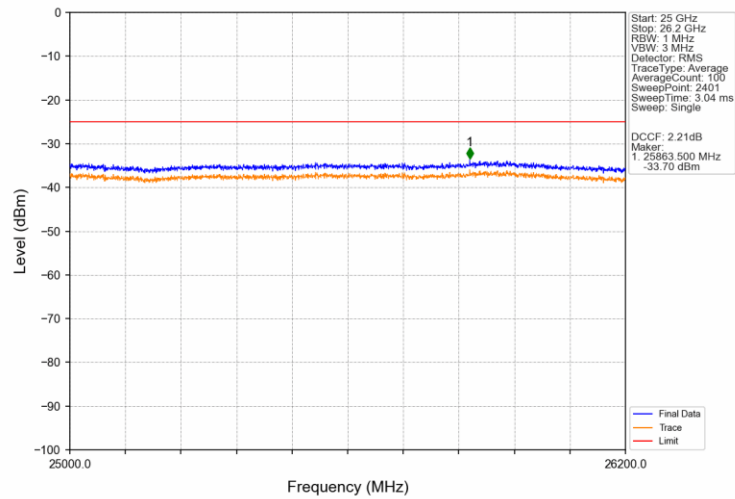
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



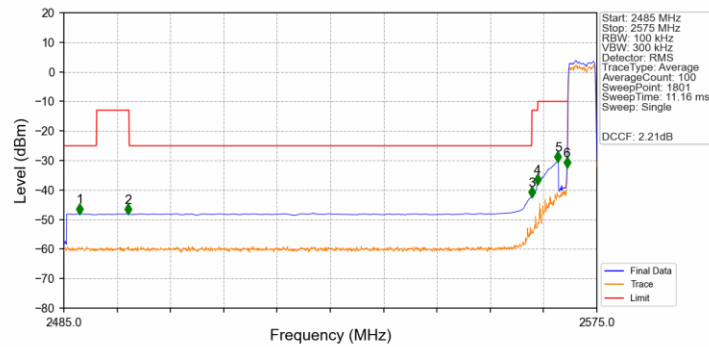
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



Band38 5MHz 16QAM LCH 2572.5MHz RB 1 0 NTNV

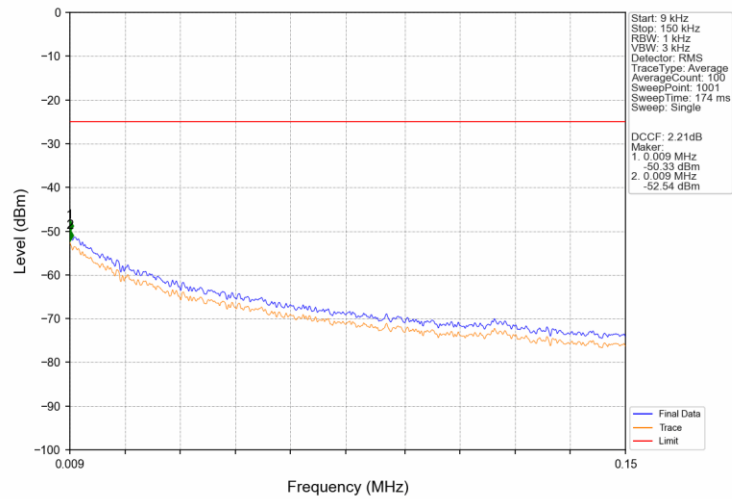


Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV

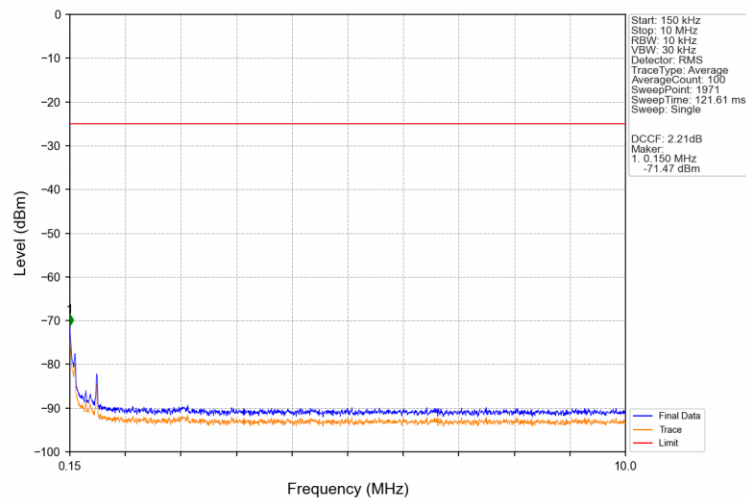


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.700	-47.98	-25	Pass
2490.5	2496	1	CHP	2	2495.850	-48.07	-13	Pass
2496	2564	1	CHP	3	2564.000	-42.25	-25	Pass
2564	2565	1	CHP	4	2565.000	-38.02	-13	Pass
2565	2569	1	CHP	5	2568.450	-30.27	-10	Pass
2569	2570	0.106	CHP	6	2569.950	-32.31	-10	Pass
2570	2575	0.106	CHP	/	/	/	/	/

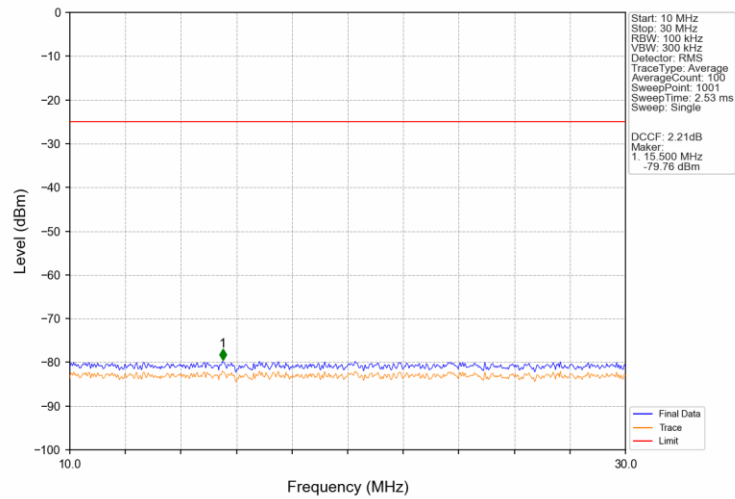
Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



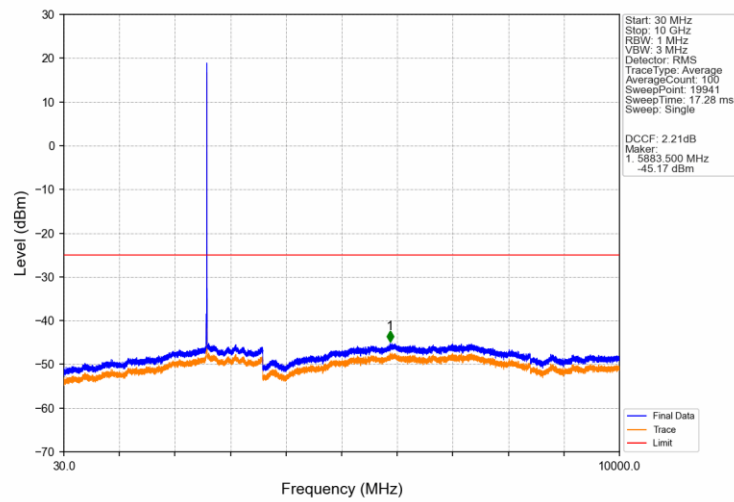
Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



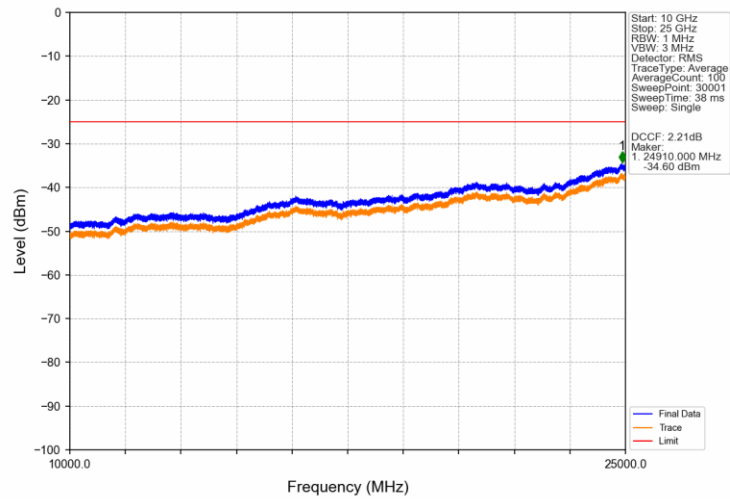
Band38 5MHz 16QAM MCH 2595MHz RB 1 0 NTV



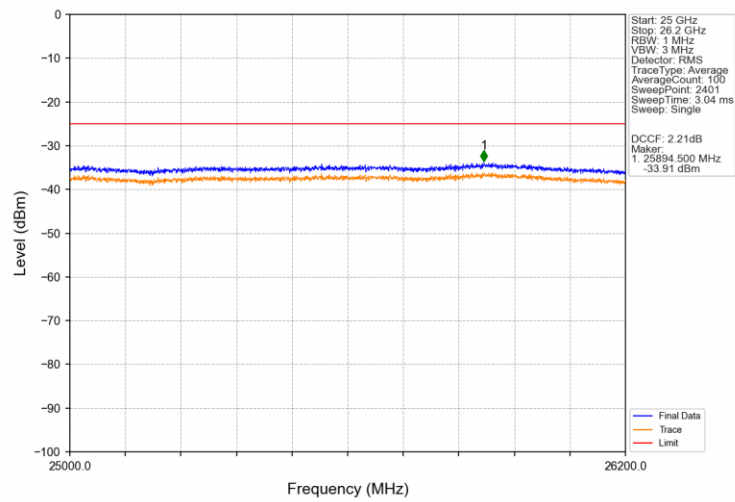
Band38 5MHz 16QAM MCH 2595MHz RB 1 0 NTV



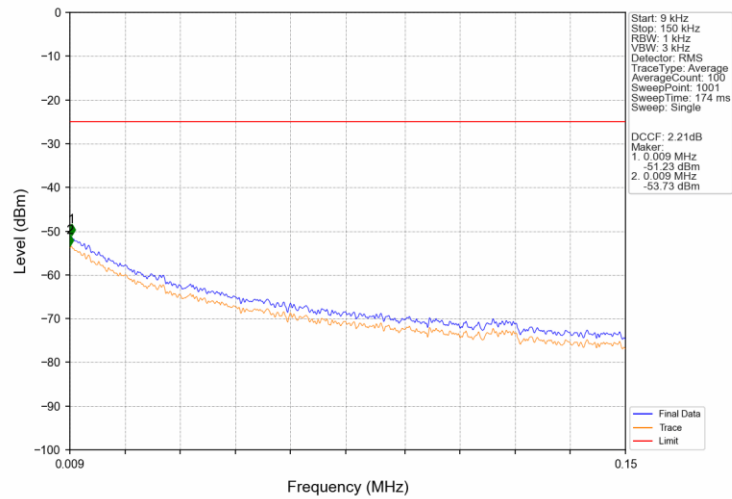
Band38 5MHz 16QAM MCH 2595MHz RB 1 0 NTV



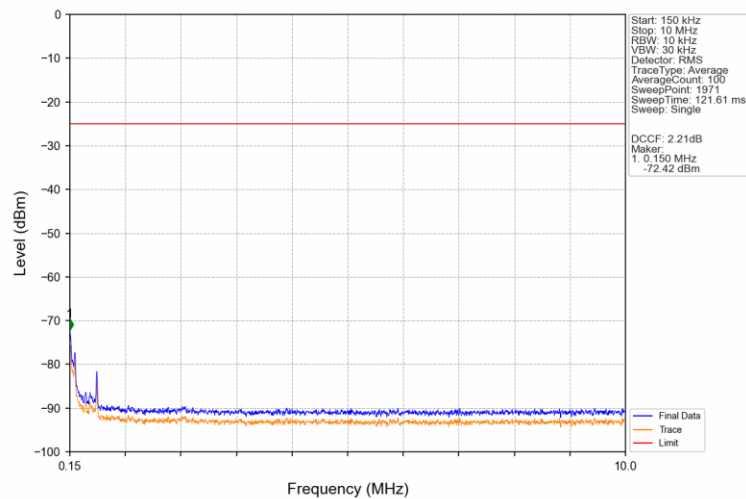
Band38 5MHz 16QAM MCH 2595MHz RB 1 0 NTV



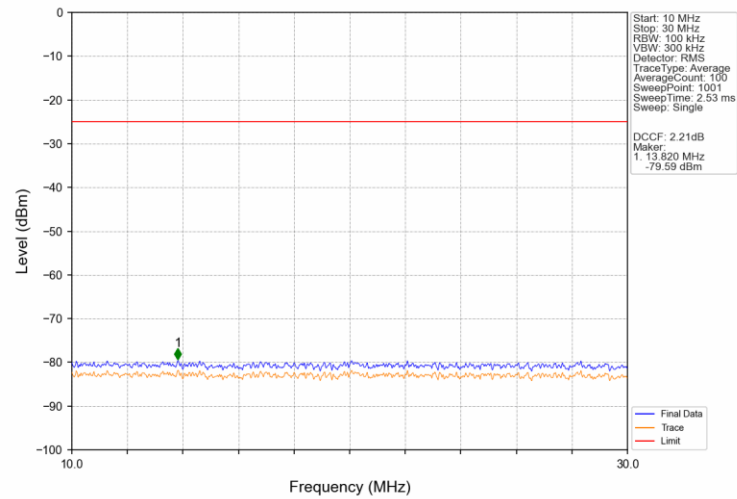
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



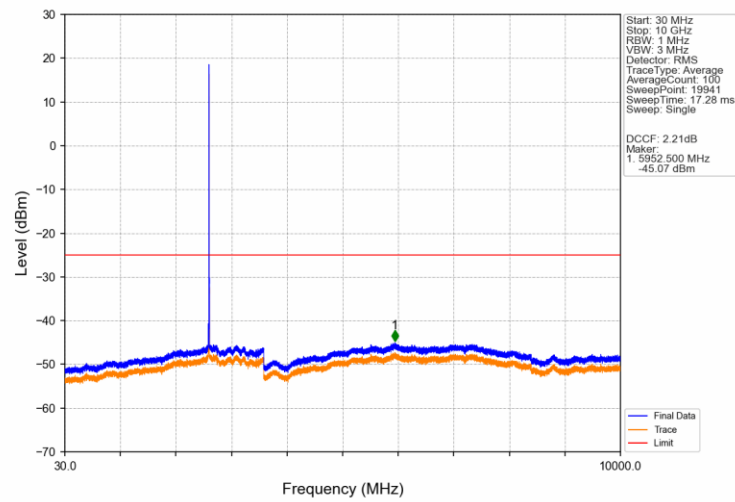
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



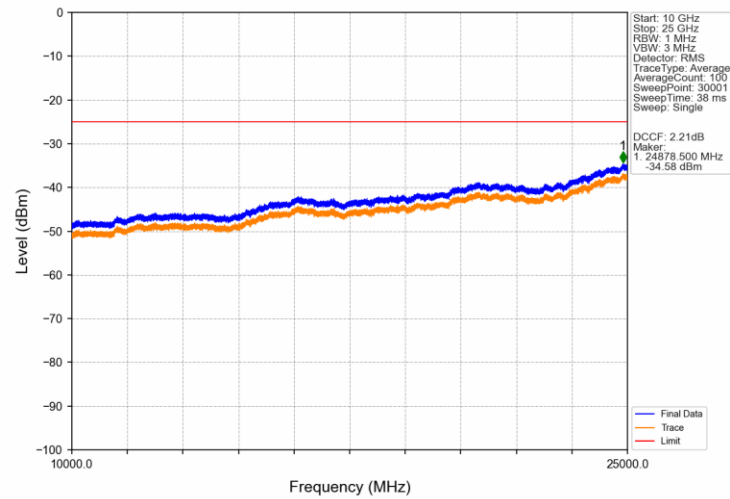
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



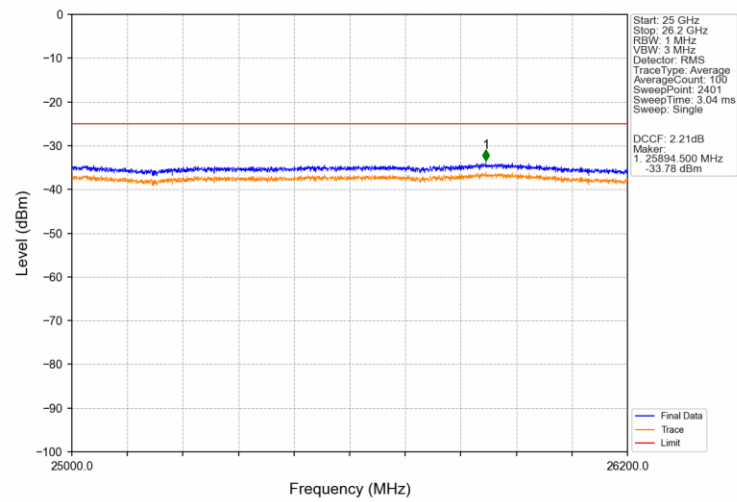
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



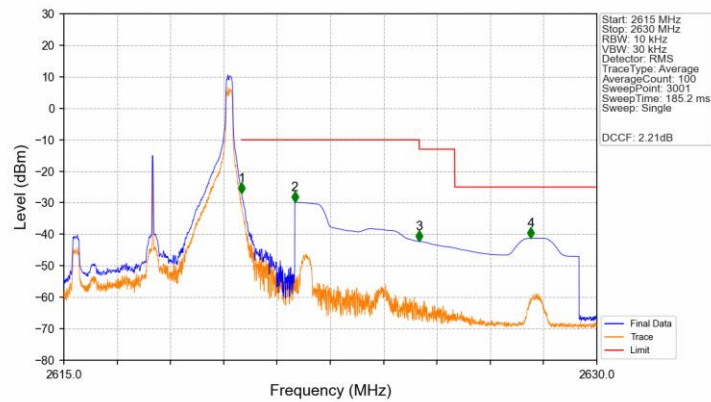
Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV



Band38 5MHz 16QAM HCH 2617.5MHz RB 1 0 NTNV

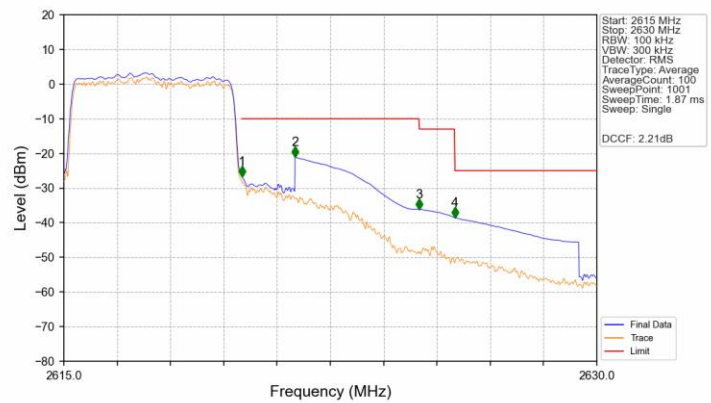


Band38 5MHz 16QAM HCH 2617.5MHz RB 1 24 NTNV



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	-27.09	-10	Pass
2621	2625	1	CHP	2	2621.500	-29.81	-10	Pass
2625	2626	1	CHP	3	2625.005	-42.23	-13	Pass
2626	2630	1	CHP	4	2628.140	-41.20	-25	Pass

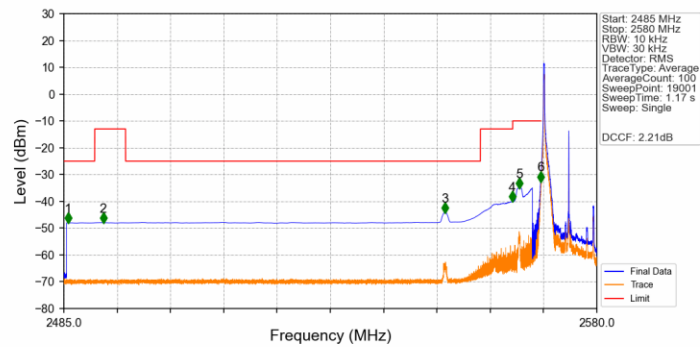
Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.101	CHP	/	/	/	/	/
2620	2621	0.101	CHP	1	2620.010	-26.76	-10	Pass
2621	2625	1	CHP	2	2621.510	-21.13	-10	Pass
2625	2626	1	CHP	3	2625.005	-36.15	-13	Pass
2626	2630	1	CHP	4	2626.010	-38.58	-25	Pass

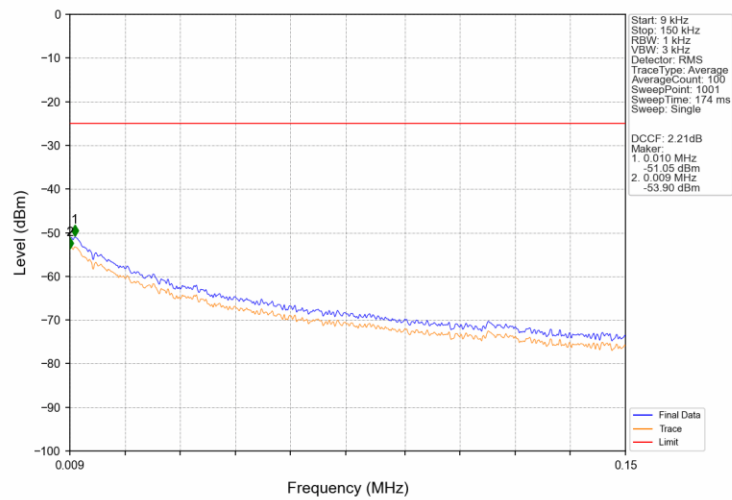
6.2.2 B38_10MHz

Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN

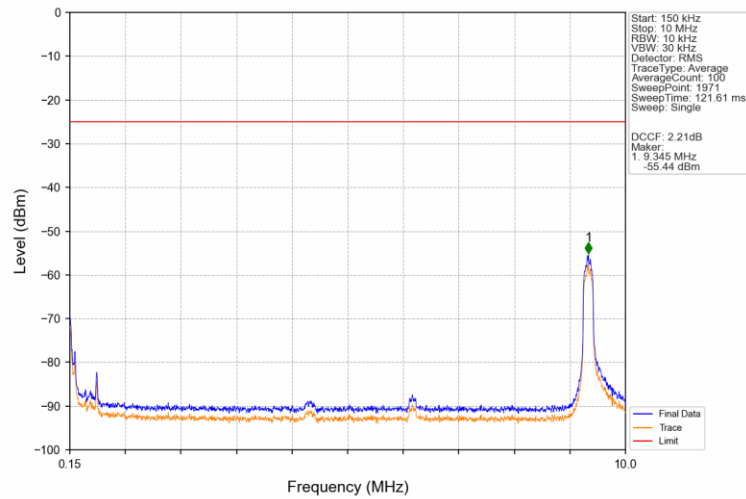


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.750	-48.01	-25	Pass
2490.5	2496	1	CHP	2	2492.035	-47.94	-13	Pass
2496	2559.251	1	CHP	3	2552.930	-44.18	-25	Pass
2559.251	2565	1	CHP	4	2564.905	-39.97	-13	Pass
2565	2569	1	CHP	5	2566.230	-34.97	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-32.51	-10	Pass
2570	2580	0.02	CHP	/	/	/	/	/

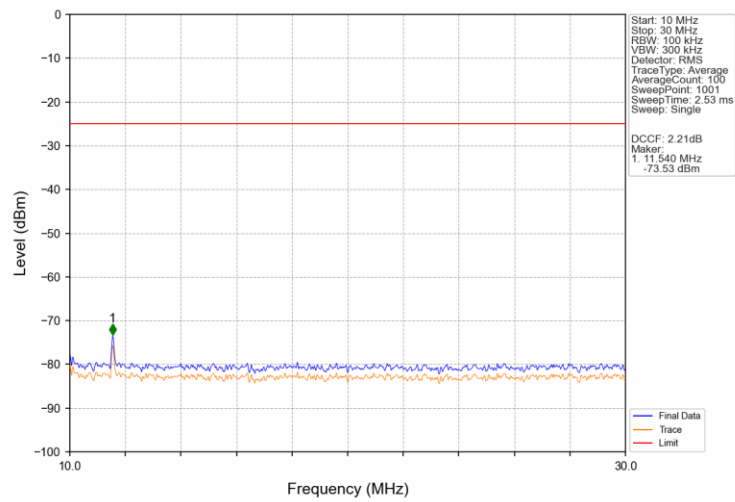
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



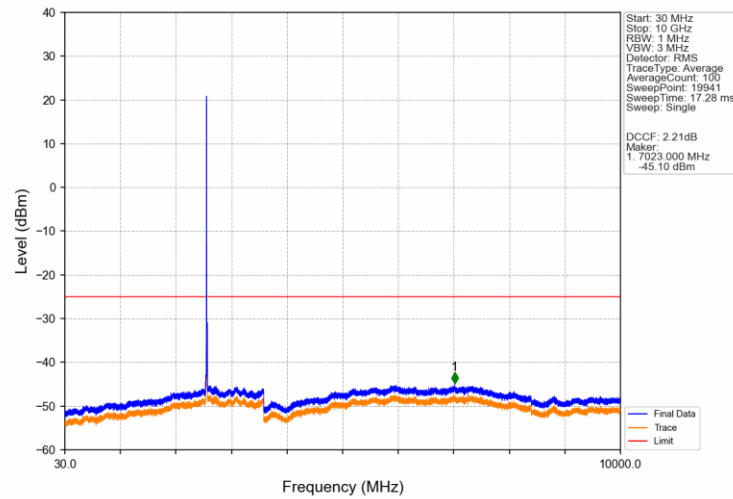
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



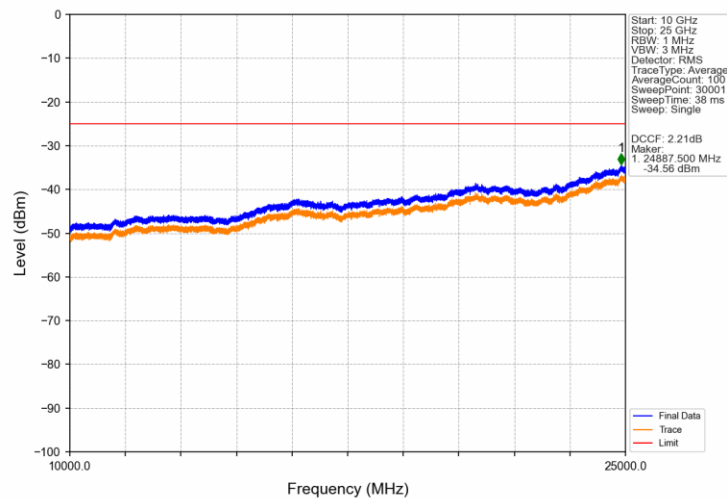
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



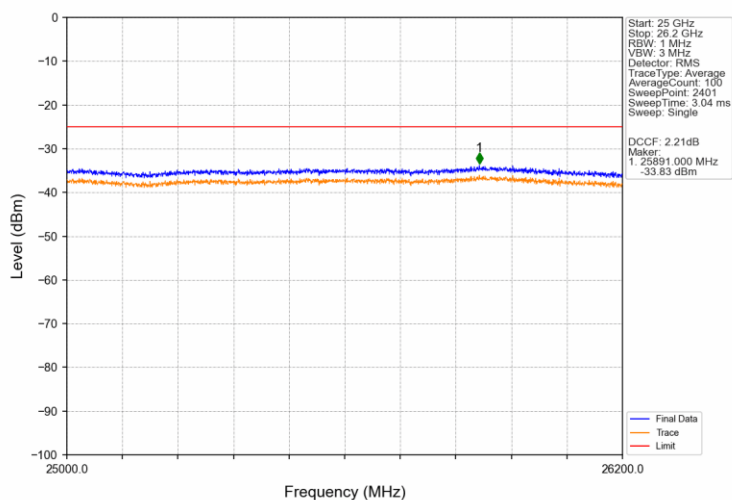
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



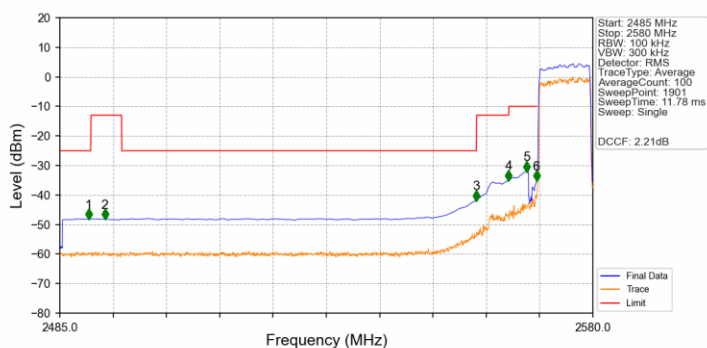
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTN



Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTNV



Band38 10MHz QPSK LCH 2575MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.150	-48.11	-25	Pass
2490.5	2496	1	CHP	2	2493.050	-48.06	-13	Pass
2496	2559.251	1	CHP	3	2559.250	-41.75	-25	Pass
2559.251	2565	1	CHP	4	2565.000	-34.93	-13	Pass
2565	2569	1	CHP	5	2568.200	-31.96	-10	Pass
2569	2570	0.215	CHP	6	2569.950	-34.97	-10	Pass
2570	2580	0.215	CHP	/	/	/	/	/