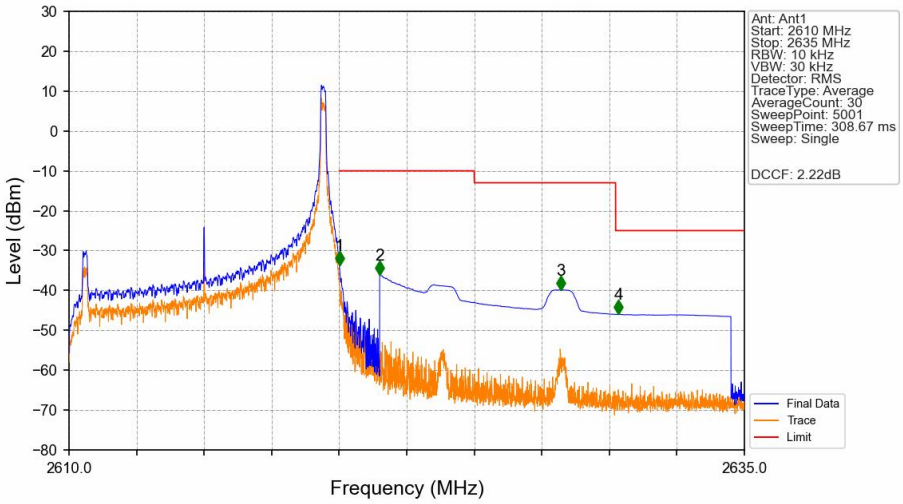
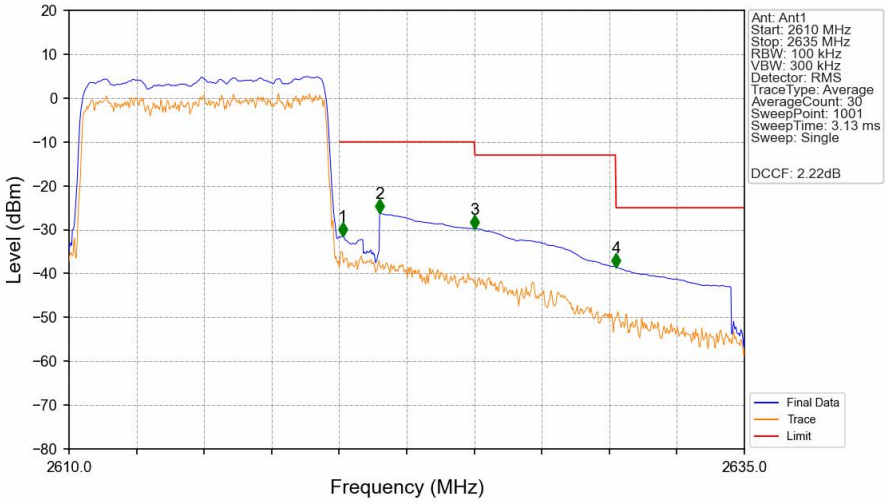
Band38_10MHz_16QAM_HCH_2615MHz_RB_1_49_NTNV



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	2620.005	-33.60	-10	Pass
2621	2625	1	CHP	2	2621.500	-36.03	-10	Pass
2625	2630.234	1	CHP	3	2628.215	-39.87	-13	Pass
2630.234	2635	1	CHP	4	2630.335	-45.97	-25	Pass

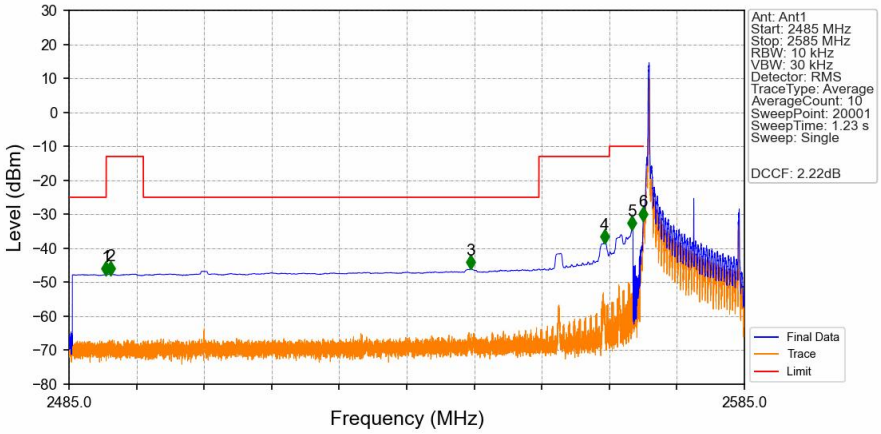
Band38_10MHz_16QAM_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.205	CHP	/	/	/	/	/
2620	2621	0.205	CHP	1	2620.125	-31.48	-10	Pass
2621	2625	1	CHP	2	2621.500	-26.24	-10	Pass
2625	2630.234	1	CHP	3	2625.025	-29.78	-13	Pass
2630.234	2635	1	CHP	4	2630.250	-38.54	-25	Pass

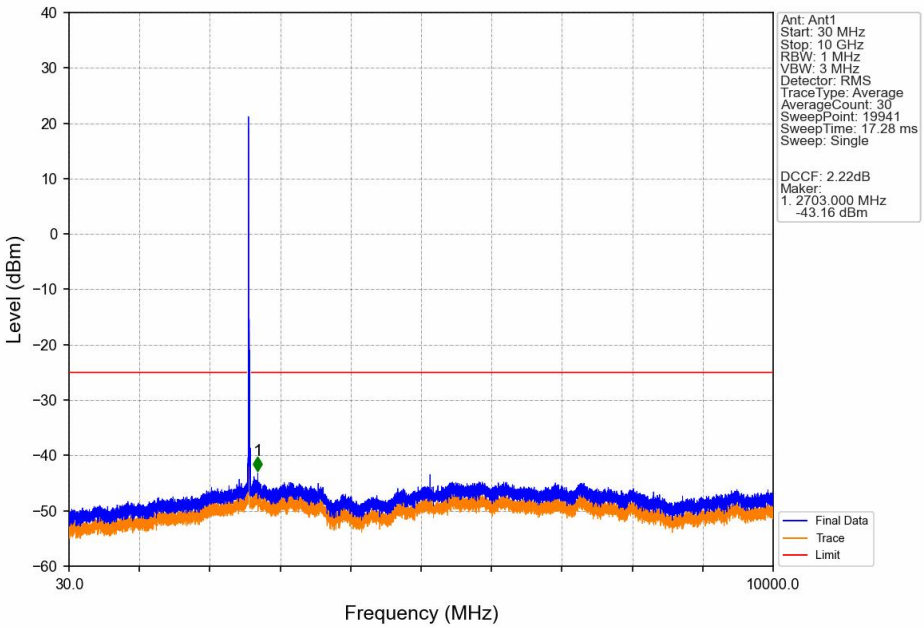
5.2.3 B38_15MHz

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

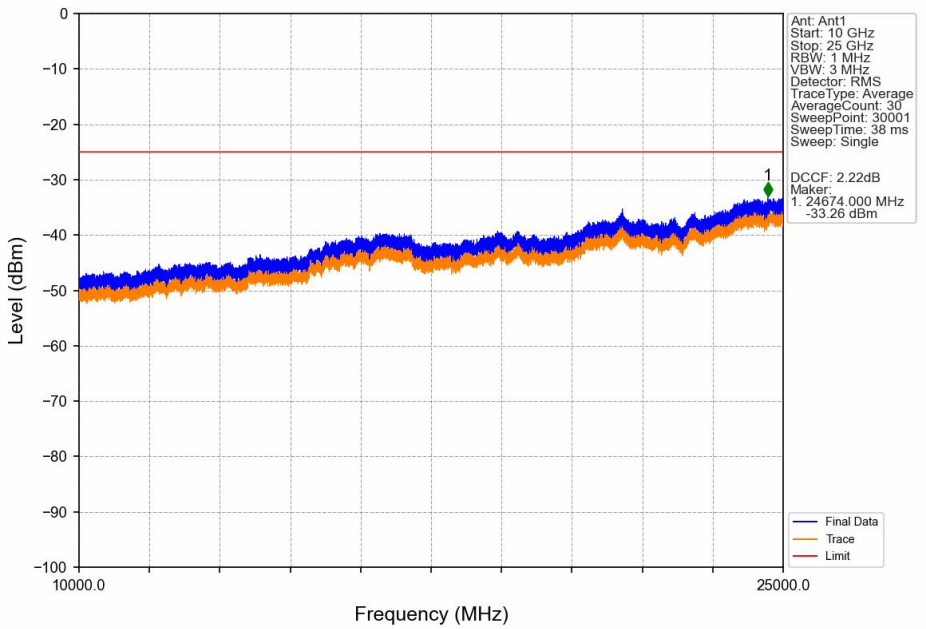


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.485	-47.71	-25	Pass
2490.5	2496	1	CHP	2	2491.185	-47.60	-13	Pass
2496	2554.569	1	CHP	3	2544.500	-45.86	-25	Pass
2554.569	2565	1	CHP	4	2564.280	-38.22	-13	Pass
2565	2569	1	CHP	5	2568.330	-34.33	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-31.62	-10	Pass
2570	2585	0.02	CHP	/	/	/	/	/

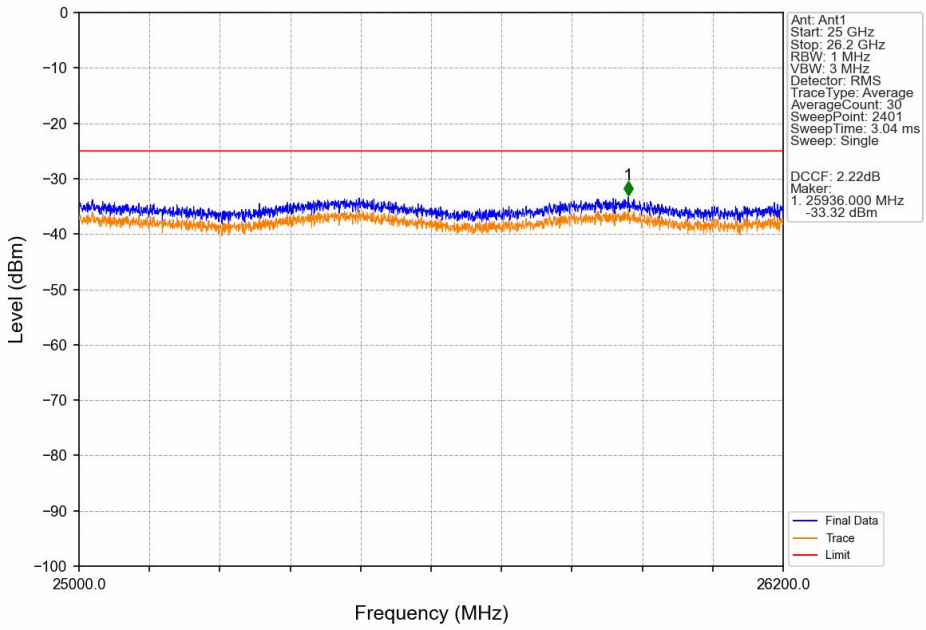
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



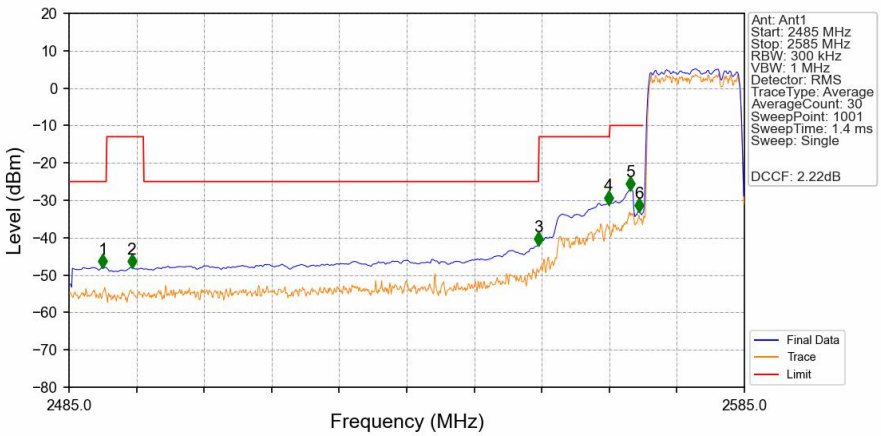
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

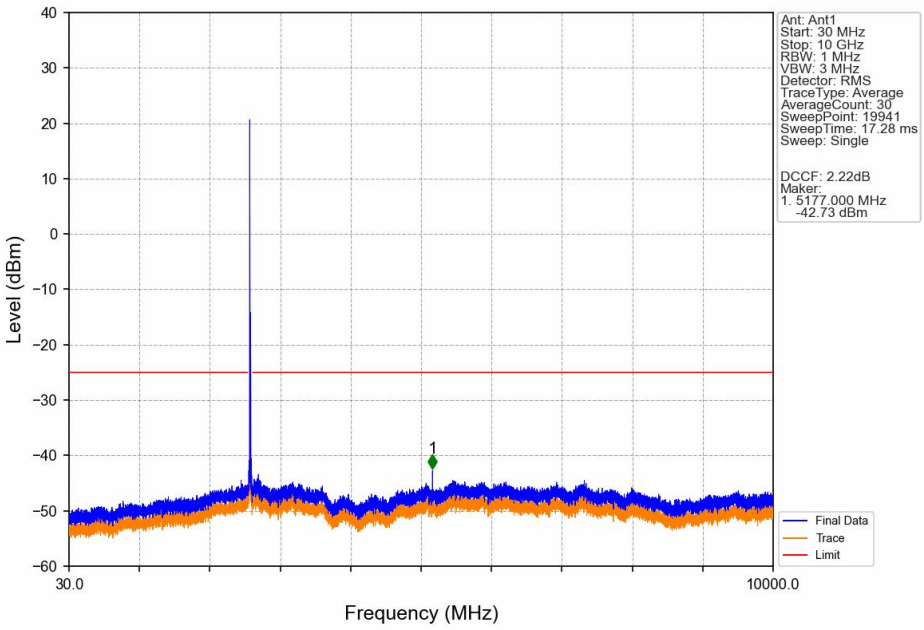


Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

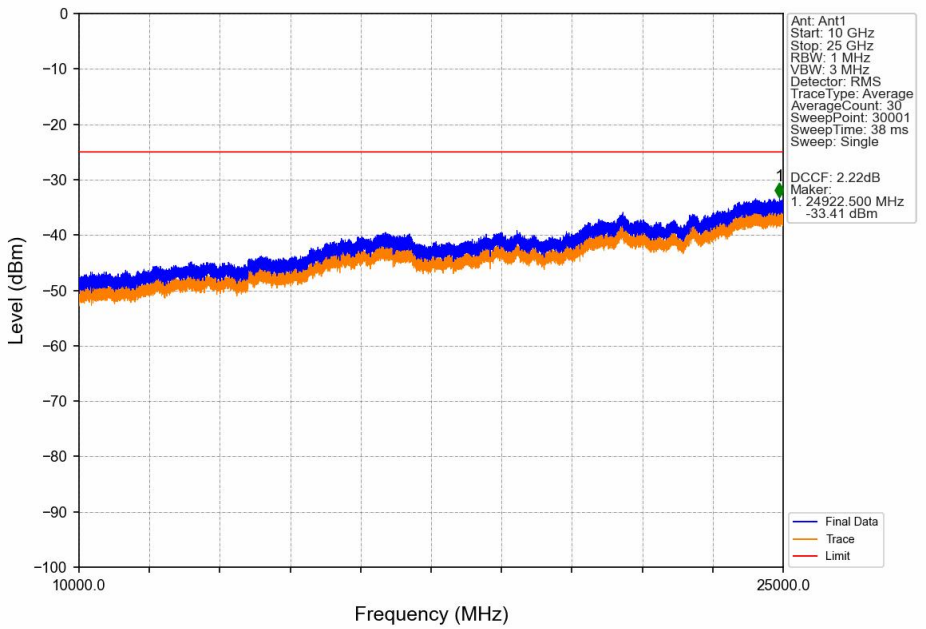


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.000	-47.88	-25	Pass
2490.5	2496	1	CHP	2	2494.300	-47.88	-13	Pass
2496	2554.569	1	CHP	3	2554.500	-41.93	-25	Pass
2554.569	2565	1	CHP	4	2564.900	-30.84	-13	Pass
2565	2569	1	CHP	5	2568.100	-27.08	-10	Pass
2569	2570	0.309	CHP	6	2569.400	-32.91	-10	Pass
2570	2585	0.309	CHP	/	/	/	/	/

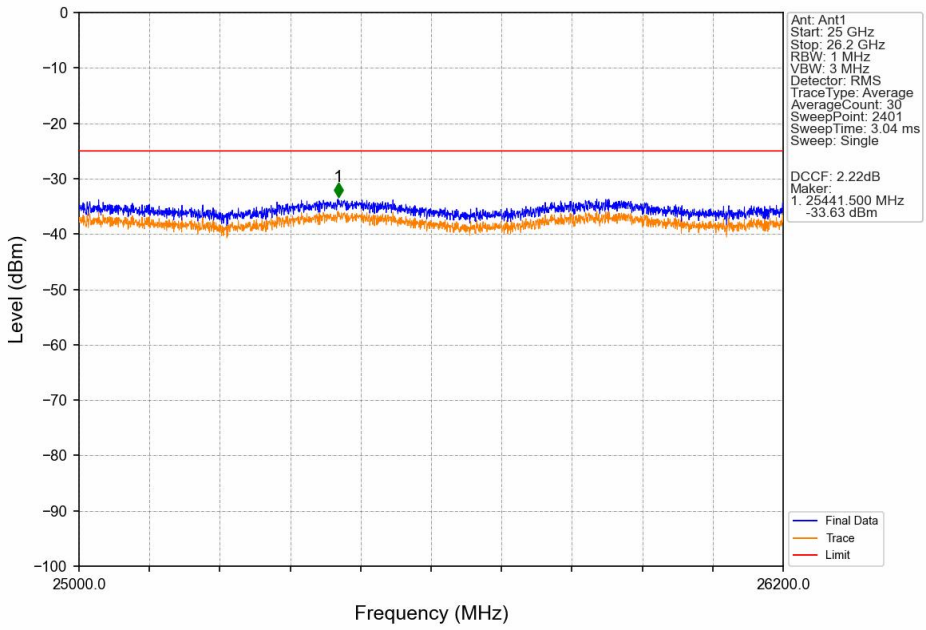
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



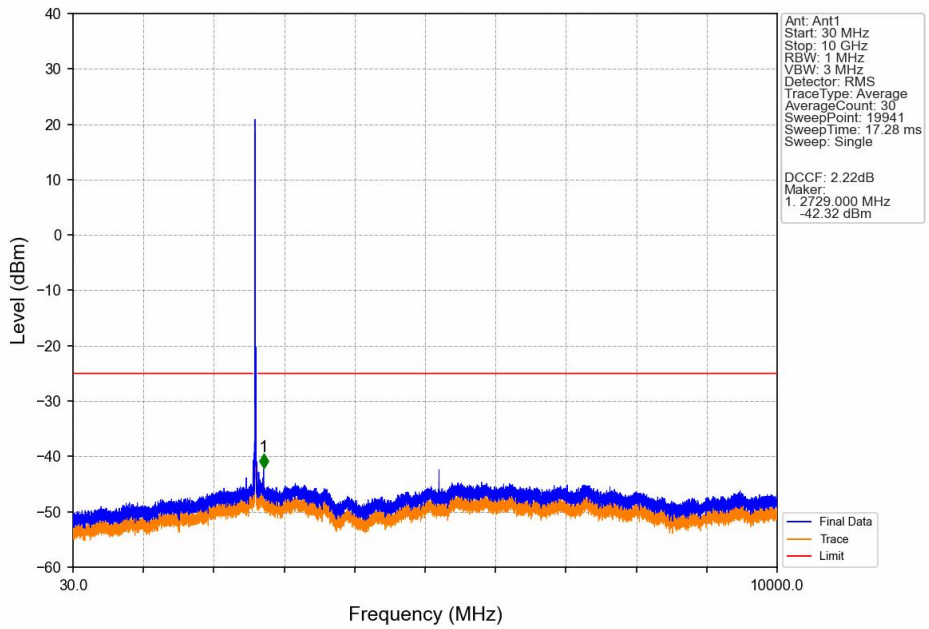
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



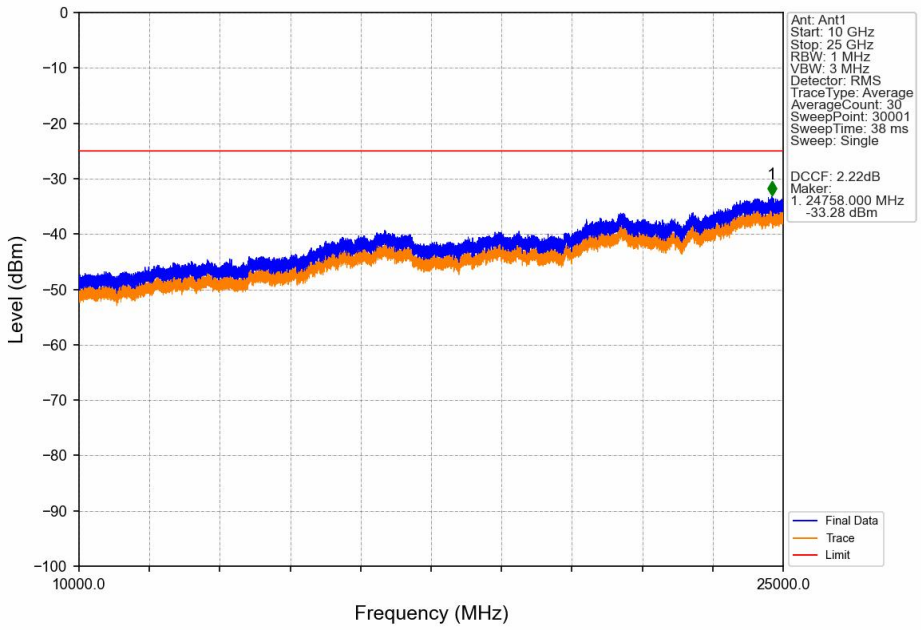
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



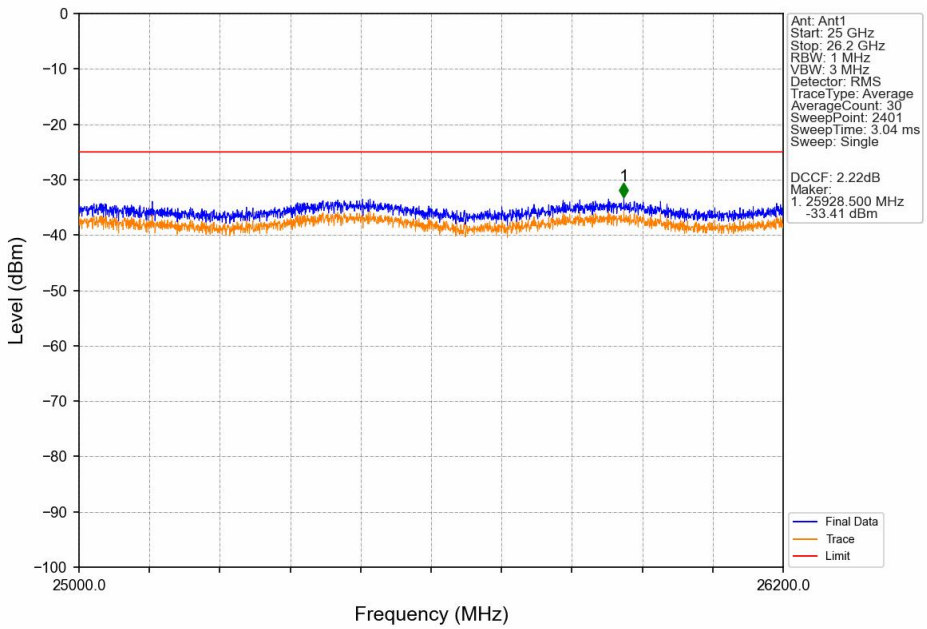
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



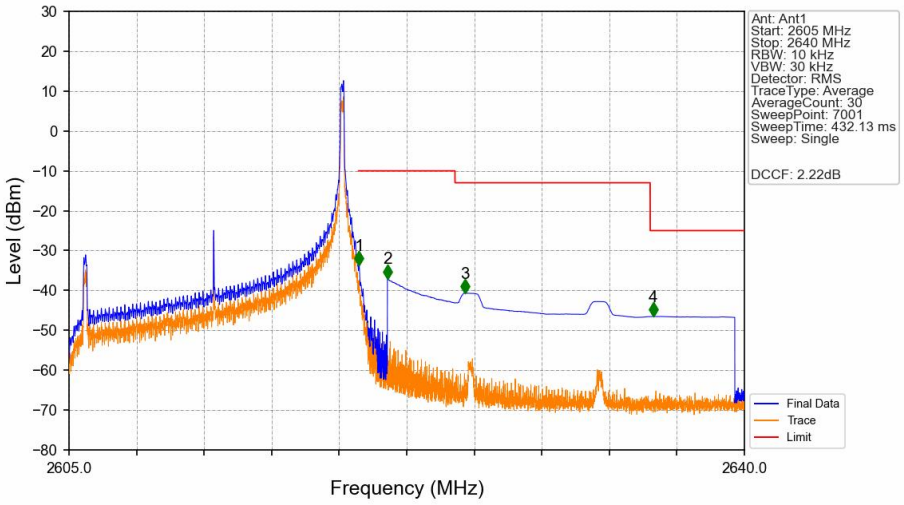
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

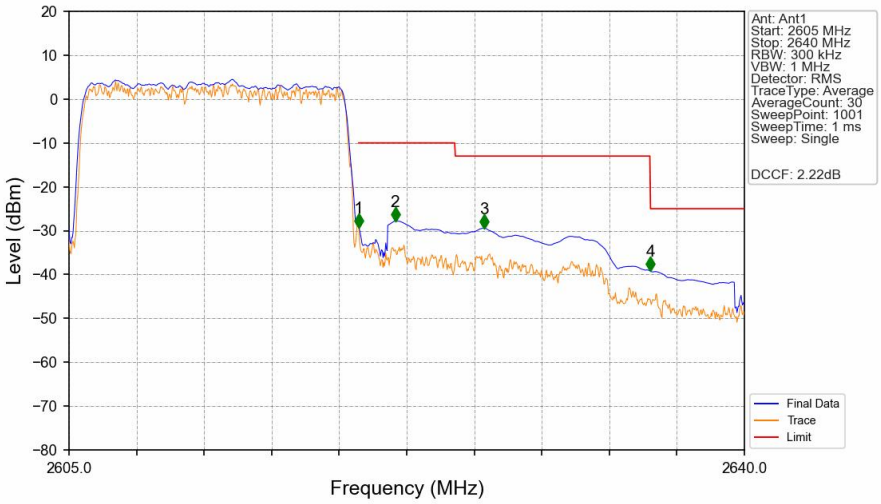


Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



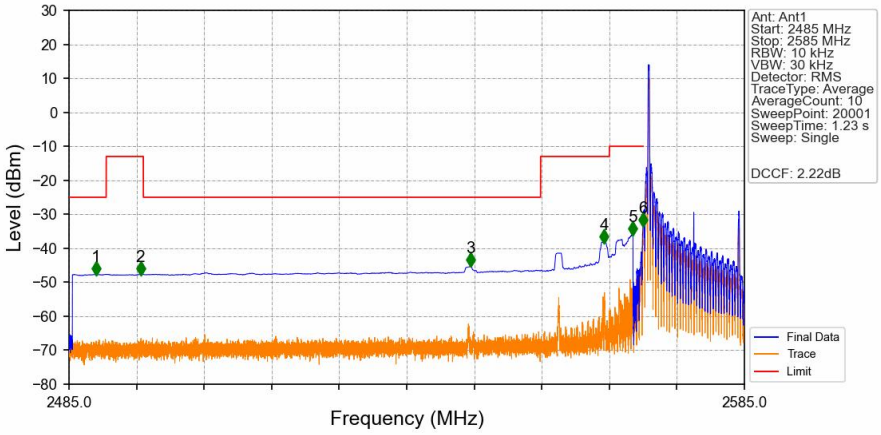
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.035	-33.61	-10	Pass
2621	2625	1	CHP	2	2621.500	-36.96	-10	Pass
2625	2635.115	1	CHP	3	2625.500	-40.64	-13	Pass
2635.115	2640	1	CHP	4	2635.275	-46.51	-25	Pass

Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



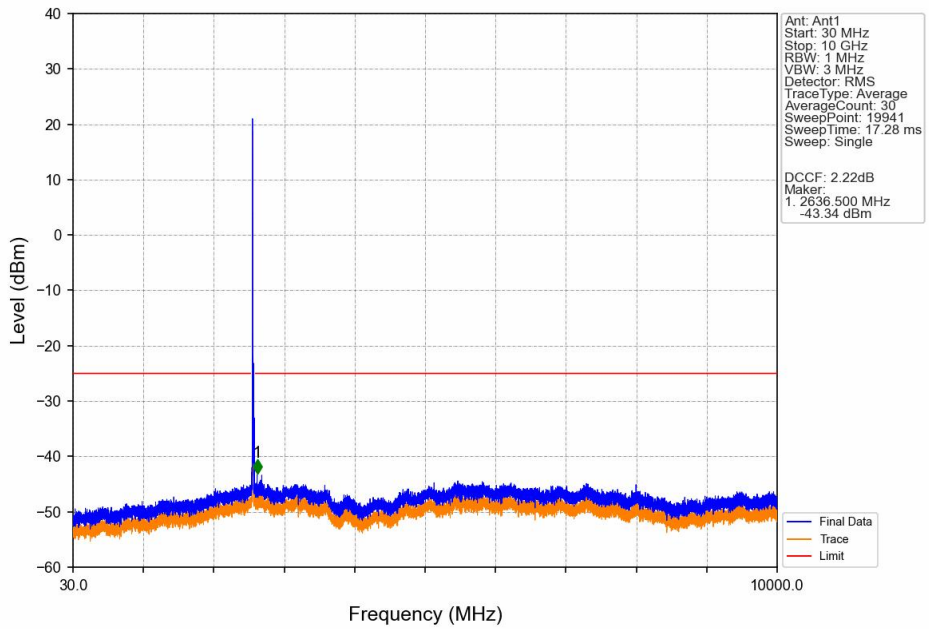
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.302	CHP	/	/	/	/	/
2620	2621	0.302	CHP	1	2620.015	-29.26	-10	Pass
2621	2625	1	CHP	2	2621.905	-27.79	-10	Pass
2625	2635.115	1	CHP	3	2626.525	-29.42	-13	Pass
2635.115	2640	1	CHP	4	2635.135	-39.21	-25	Pass

Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV

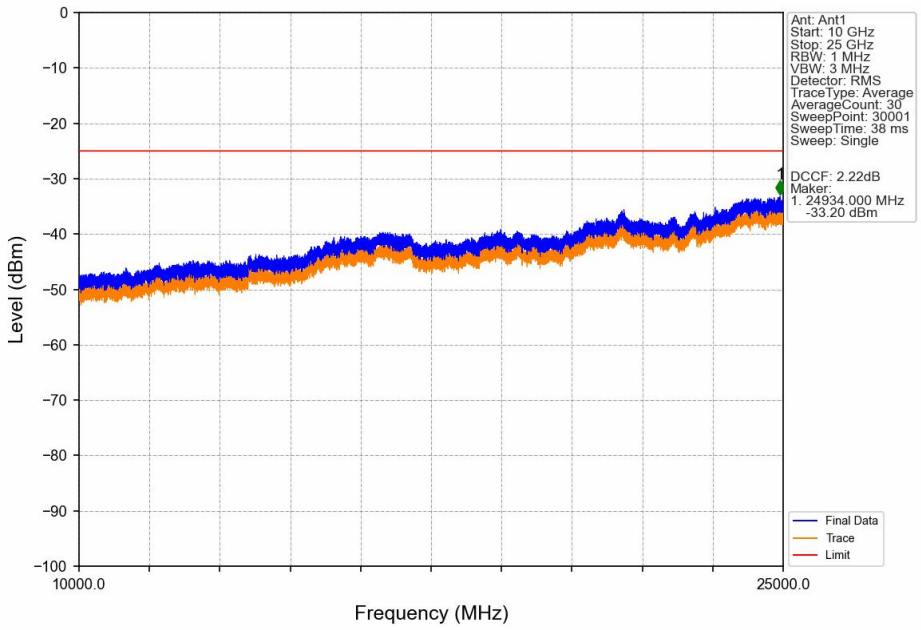


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.000	-47.63	-25	Pass
2490.5	2496	1	CHP	2	2495.580	-47.64	-13	Pass
2496	2554.816	1	CHP	3	2544.455	-45.10	-25	Pass
2554.816	2565	1	CHP	4	2564.240	-38.22	-13	Pass
2565	2569	1	CHP	5	2568.485	-35.89	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-33.37	-10	Pass
2570	2585	0.02	CHP	/	/	/	/	/

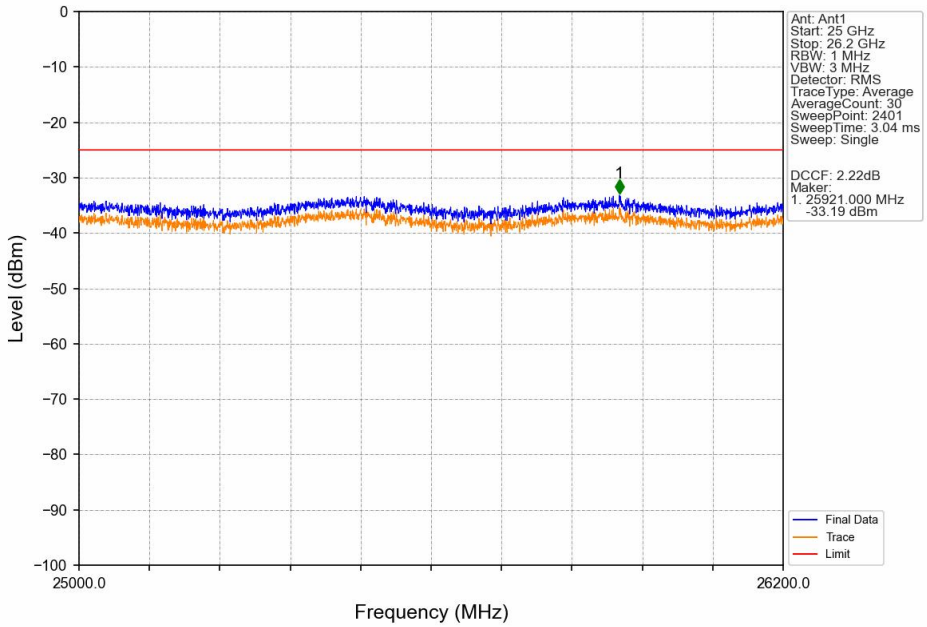
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV



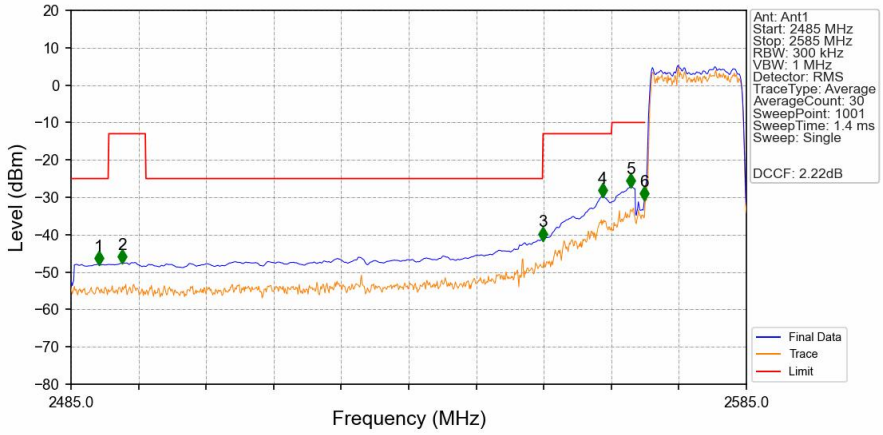
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_1_0_NTNV

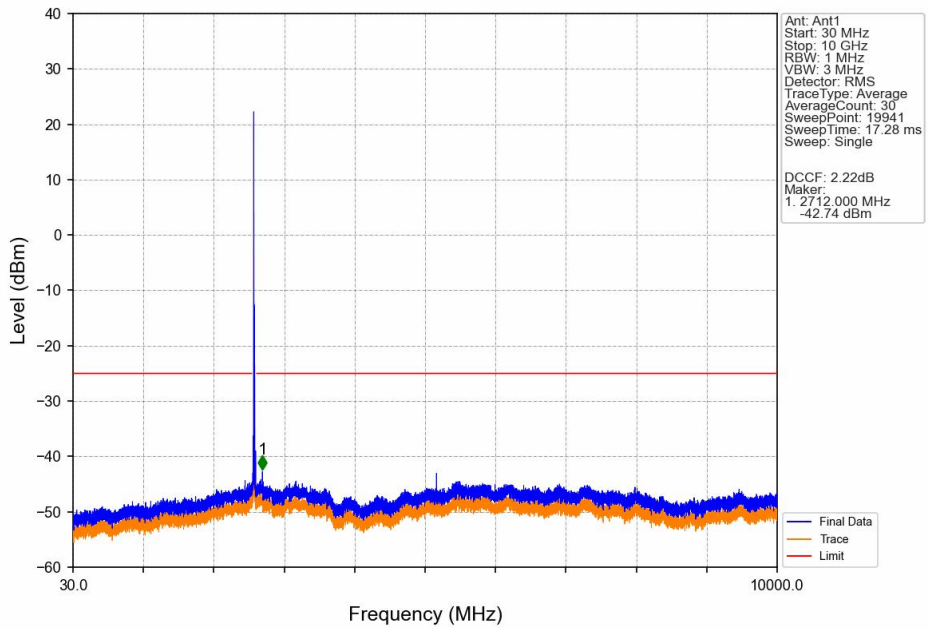


Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV

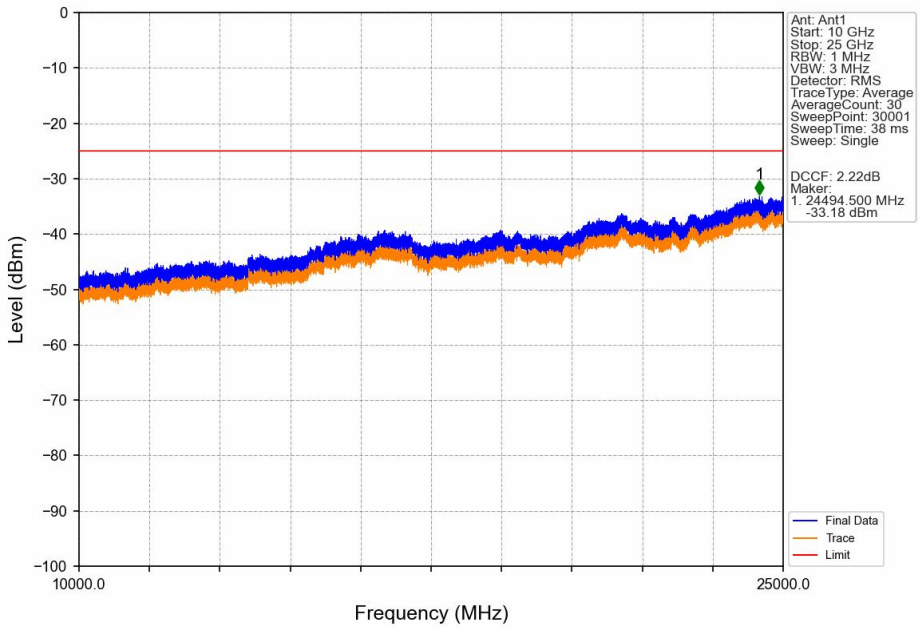


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.100	-47.84	-25	Pass
2490.5	2496	1	CHP	2	2492.600	-47.42	-13	Pass
2496	2554.816	1	CHP	3	2554.800	-41.36	-25	Pass
2554.816	2565	1	CHP	4	2563.700	-29.69	-13	Pass
2565	2569	1	CHP	5	2567.900	-27.09	-10	Pass
2569	2570	0.304	CHP	6	2569.900	-30.60	-10	Pass
2570	2585	0.304	CHP	/	/	/	/	/

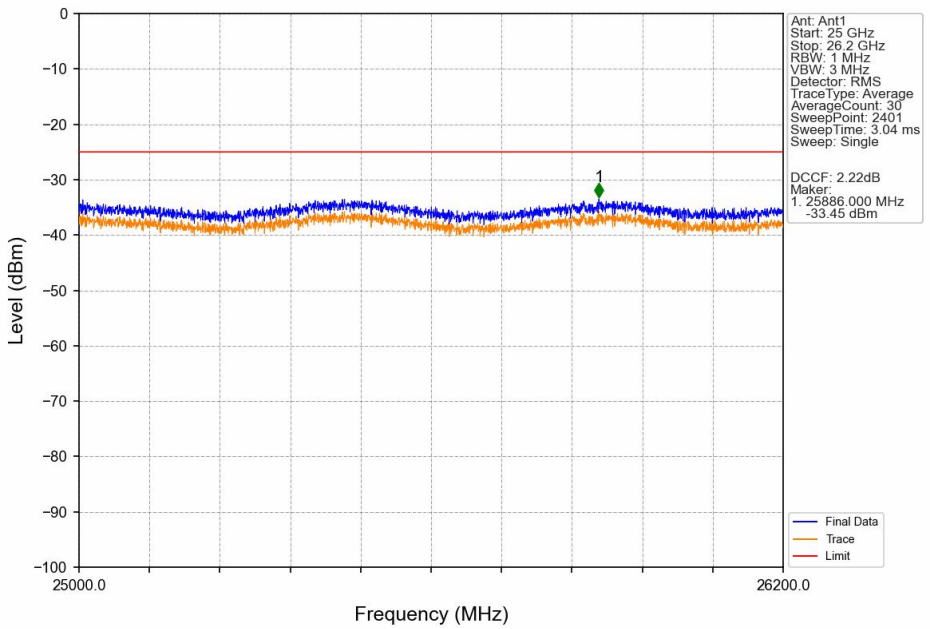
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



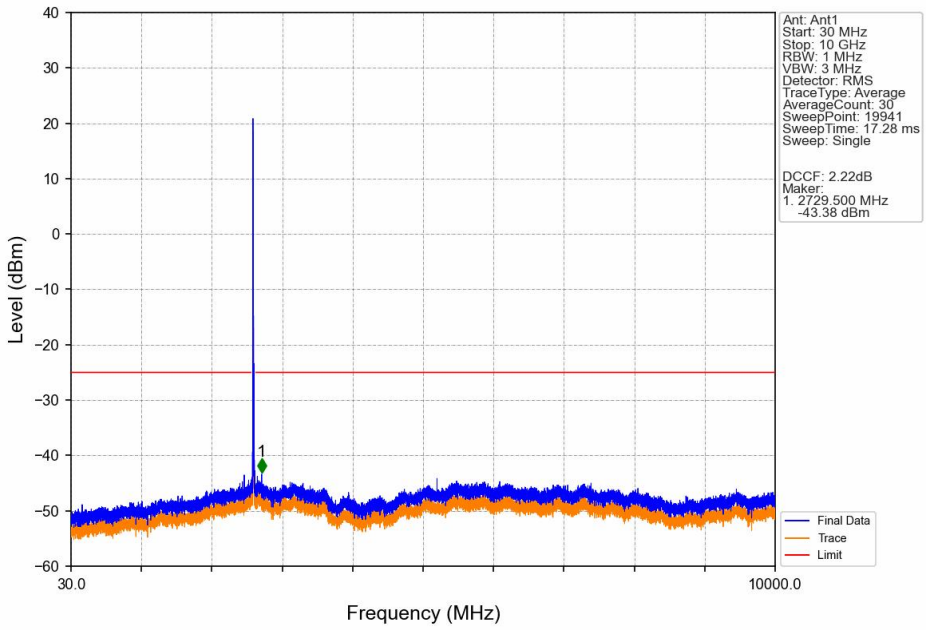
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



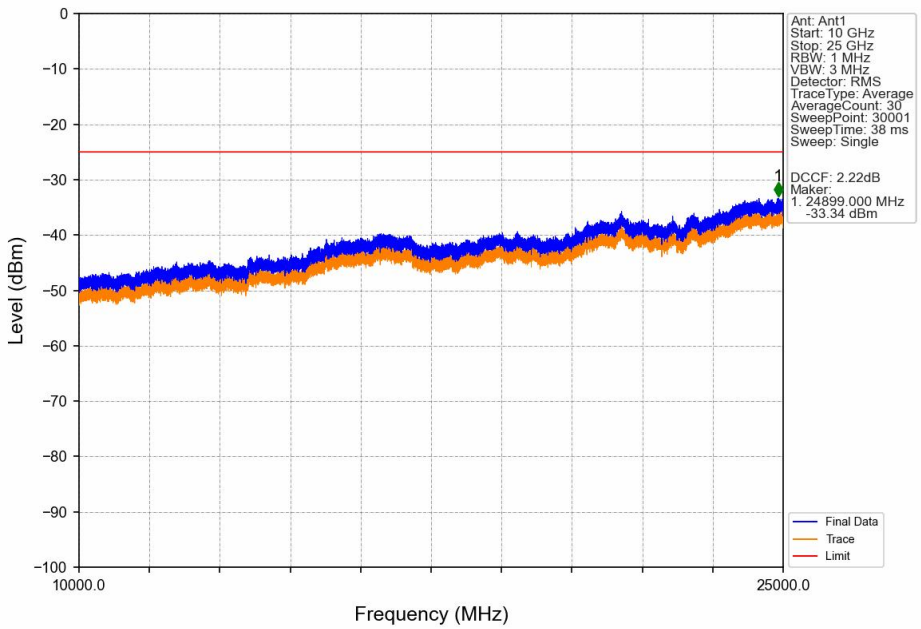
Band38_15MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



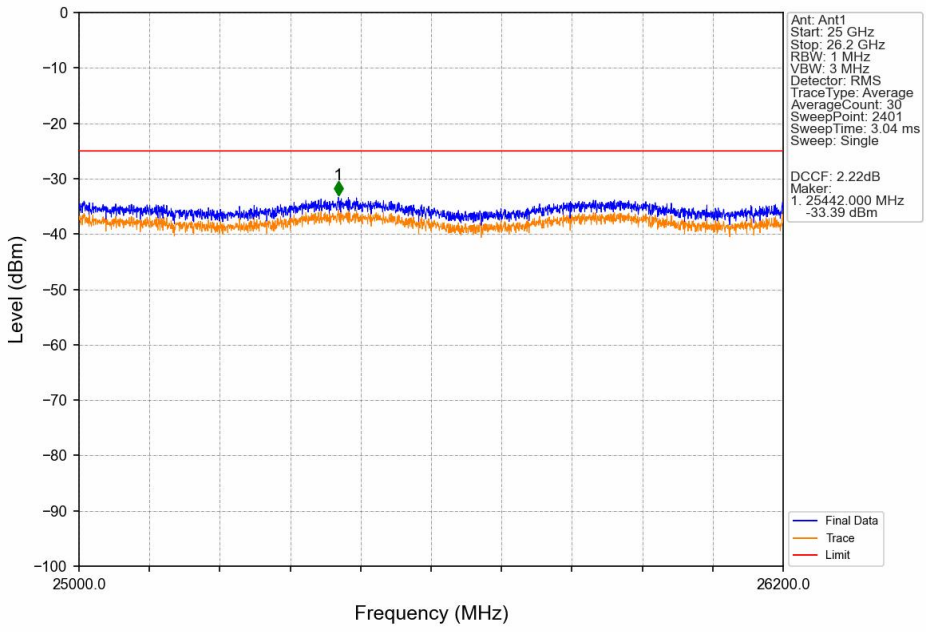
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



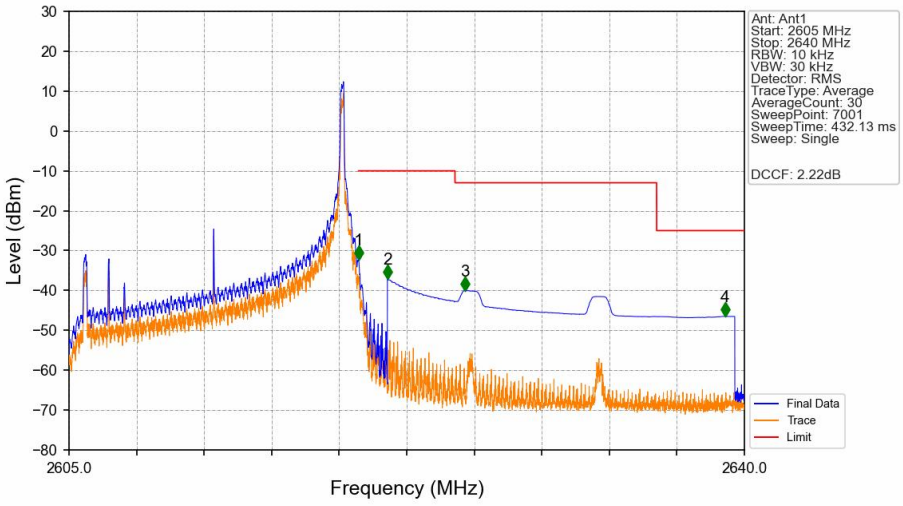
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_0_NTNV

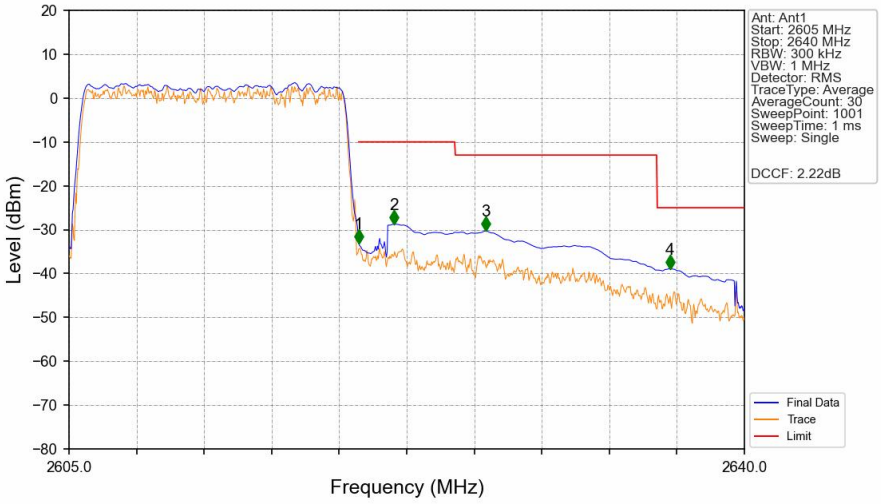


Band38_15MHz_16QAM_HCH_2612.5MHz_RB_1_74_NTNV



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	-32.27	-10	Pass
2621	2625	1	CHP	2	2621.500	-37.02	-10	Pass
2625	2635.452	1	CHP	3	2625.515	-40.01	-13	Pass
2635.452	2640	1	CHP	4	2639.005	-46.49	-25	Pass

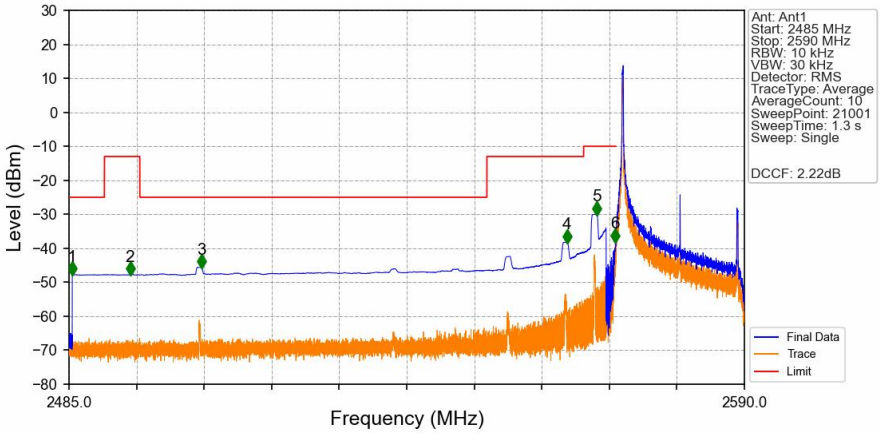
Band38_15MHz_16QAM_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.309	CHP	/	/	/	/	/
2620	2621	0.309	CHP	1	2620.015	-33.11	-10	Pass
2621	2625	1	CHP	2	2621.835	-28.73	-10	Pass
2625	2635.452	1	CHP	3	2626.595	-30.26	-13	Pass
2635.452	2640	1	CHP	4	2636.150	-38.93	-25	Pass

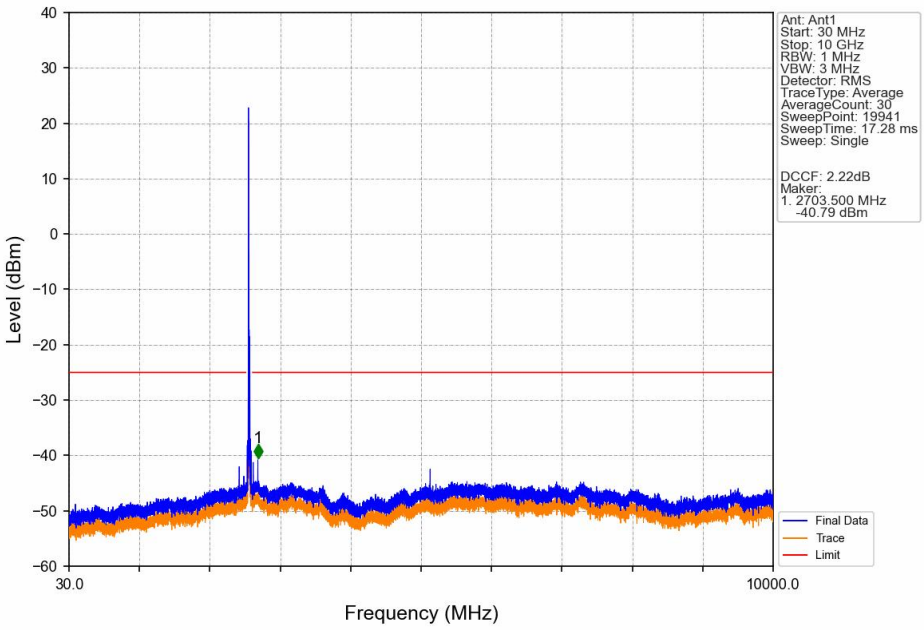
5.2.4 B38_20MHz

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

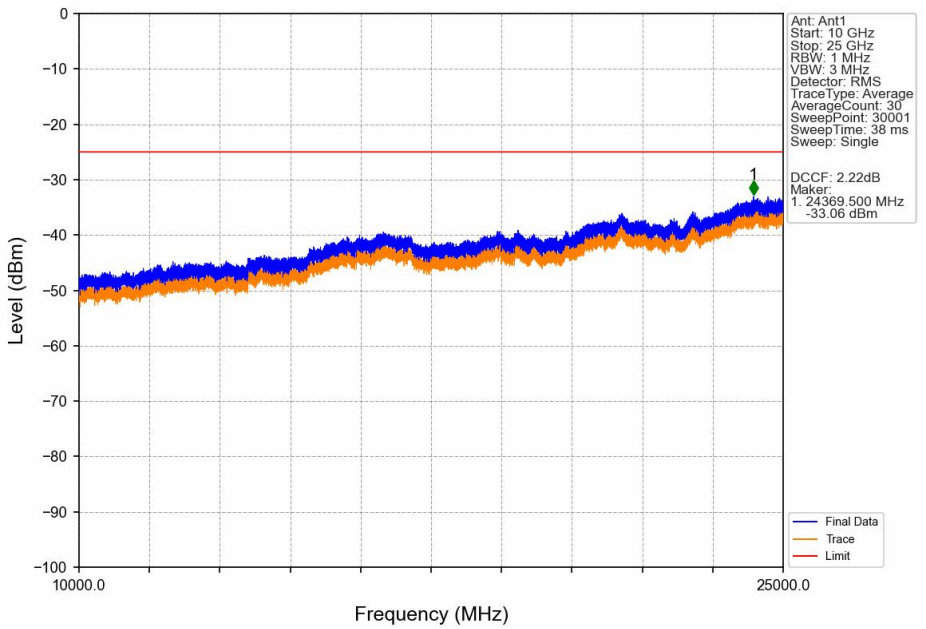


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.500	-47.68	-25	Pass
2490.5	2496	1	CHP	2	2494.500	-47.71	-13	Pass
2496	2549.967	1	CHP	3	2505.645	-45.58	-25	Pass
2549.967	2565	1	CHP	4	2562.395	-38.16	-13	Pass
2565	2569	1	CHP	5	2567.085	-29.95	-10	Pass
2569	2570	0.02	CHP	6	2569.955	-37.92	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

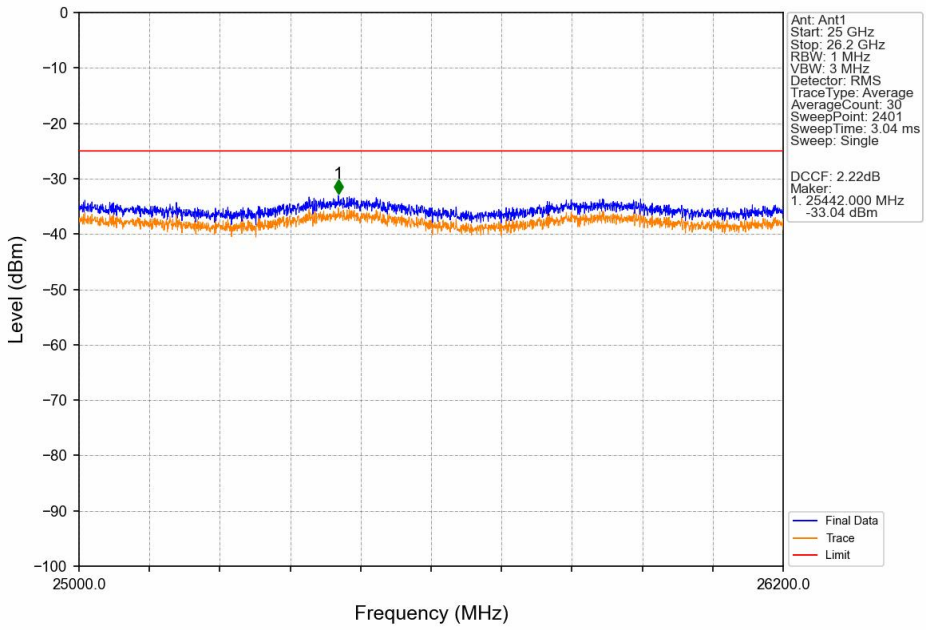
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



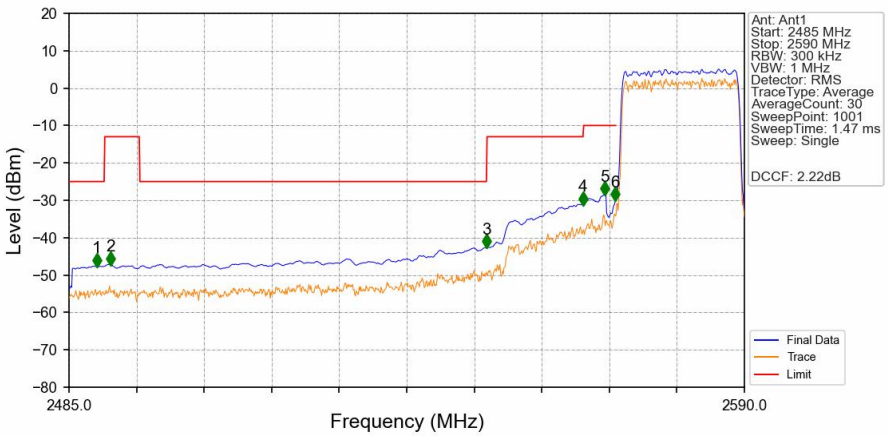
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

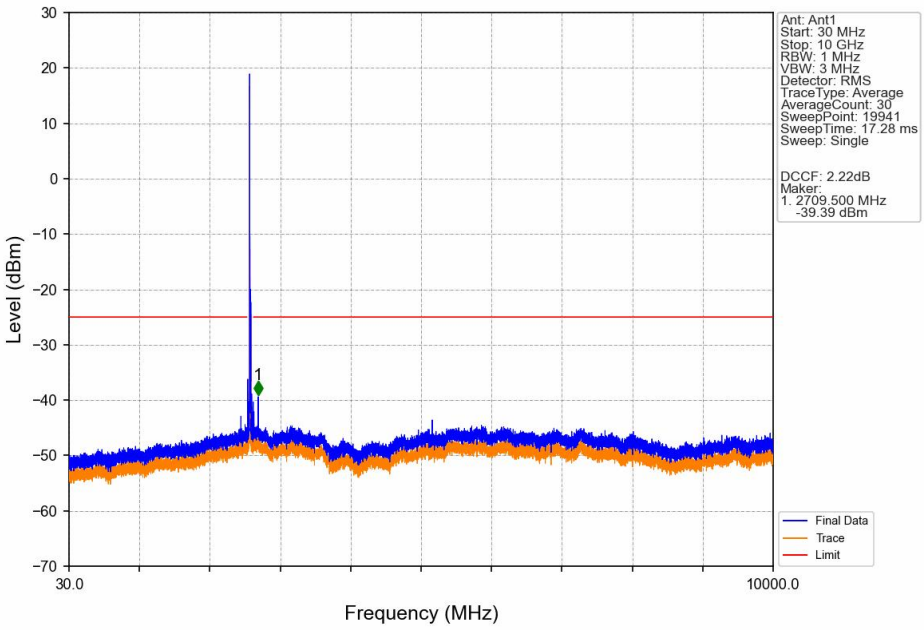


Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

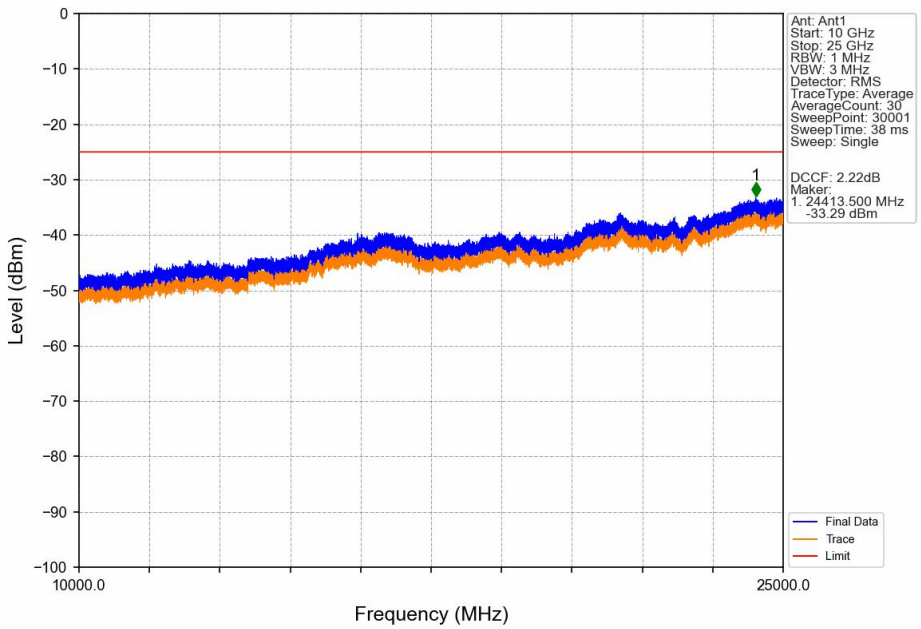


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.305	-47.54	-25	Pass
2490.5	2496	1	CHP	2	2491.510	-47.11	-13	Pass
2496	2549.967	1	CHP	3	2549.890	-42.49	-25	Pass
2549.967	2565	1	CHP	4	2564.905	-31.05	-13	Pass
2565	2569	1	CHP	5	2568.265	-28.44	-10	Pass
2569	2570	0.401	CHP	6	2569.945	-29.88	-10	Pass
2570	2590	0.401	CHP	/	/	/	/	/

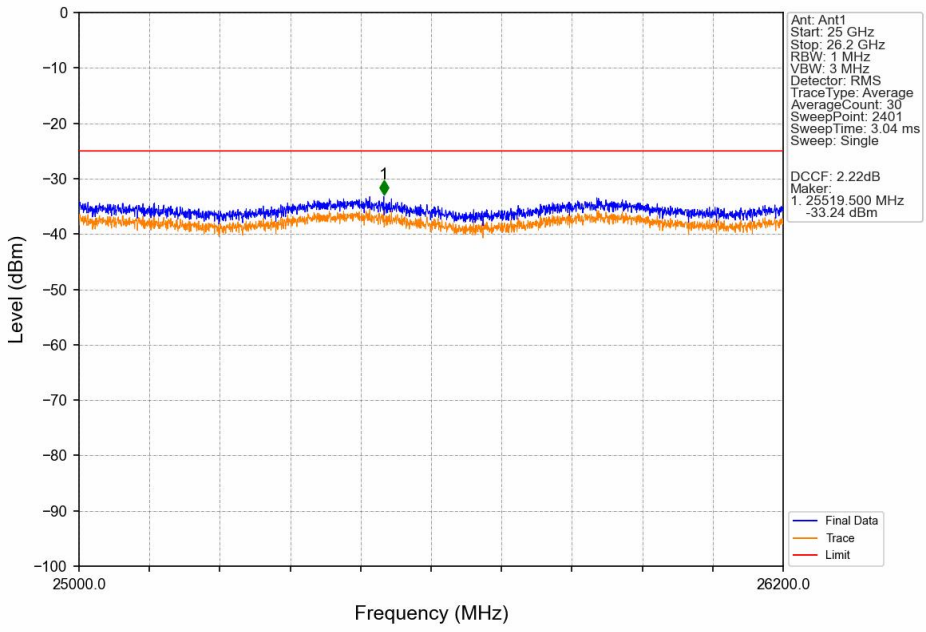
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



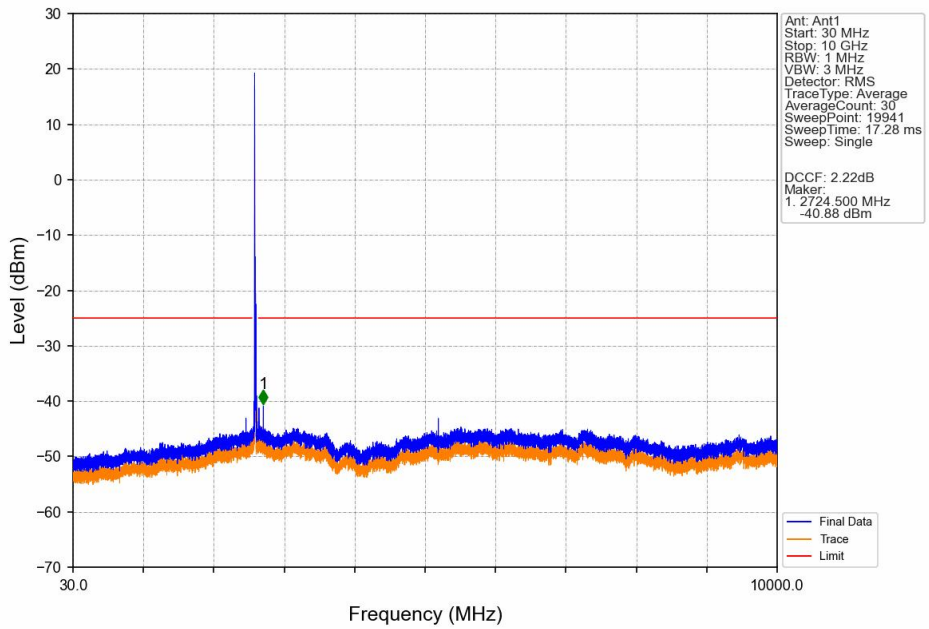
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



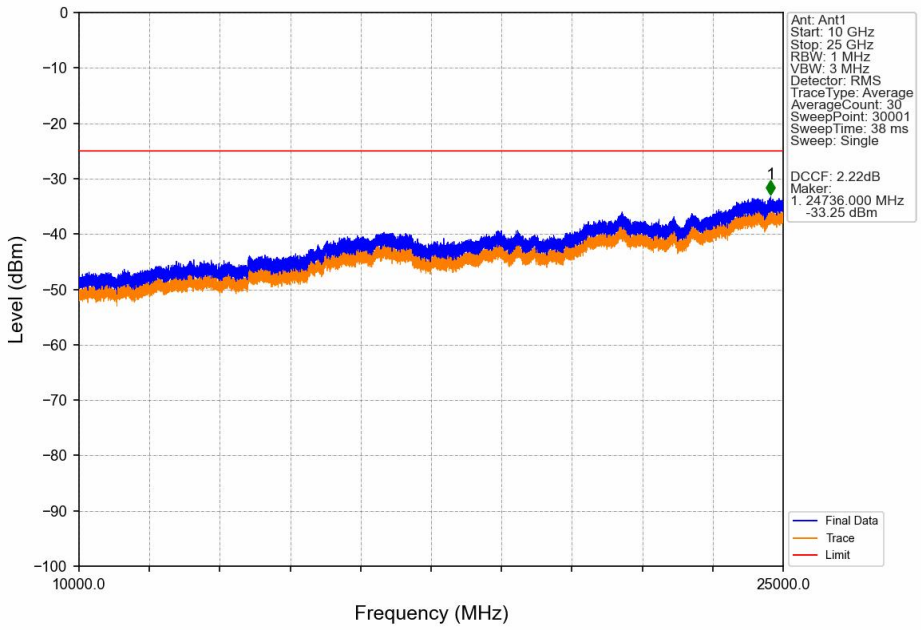
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



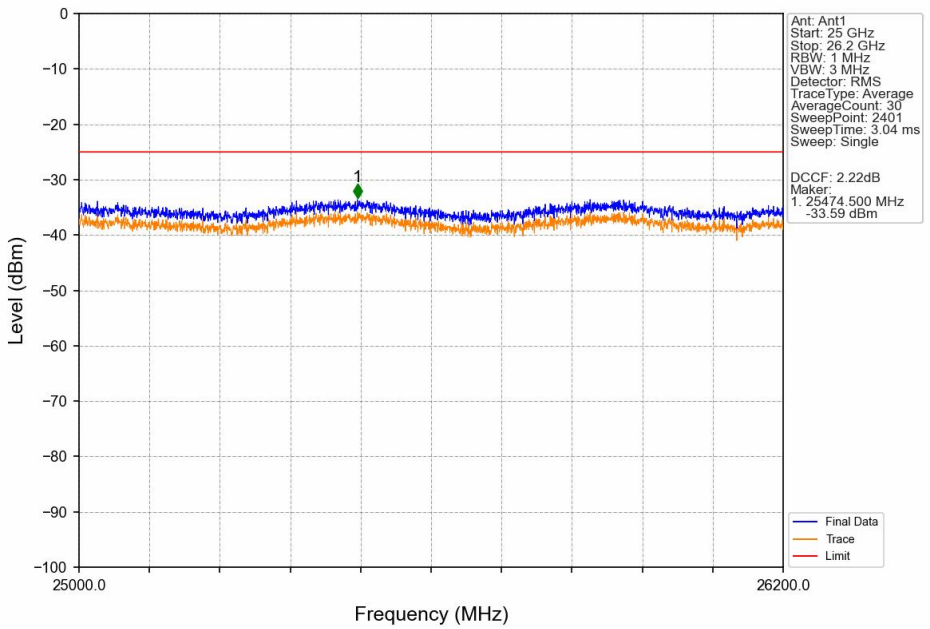
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



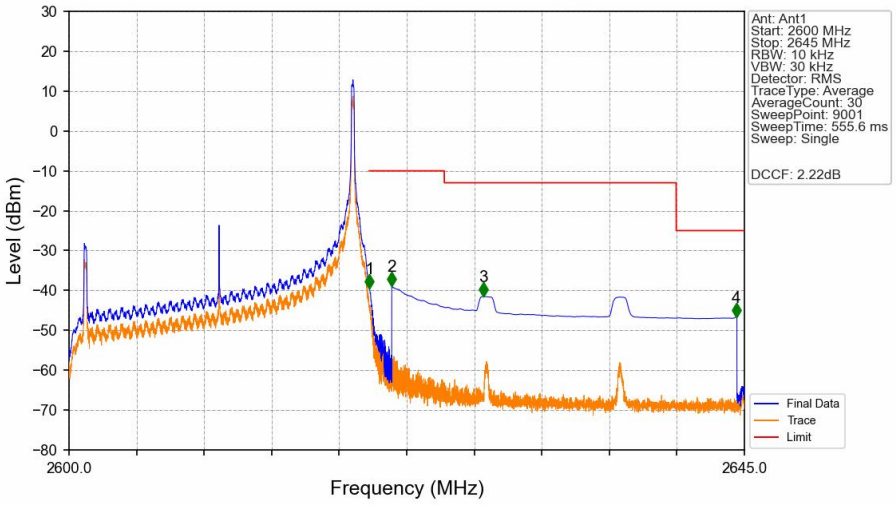
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

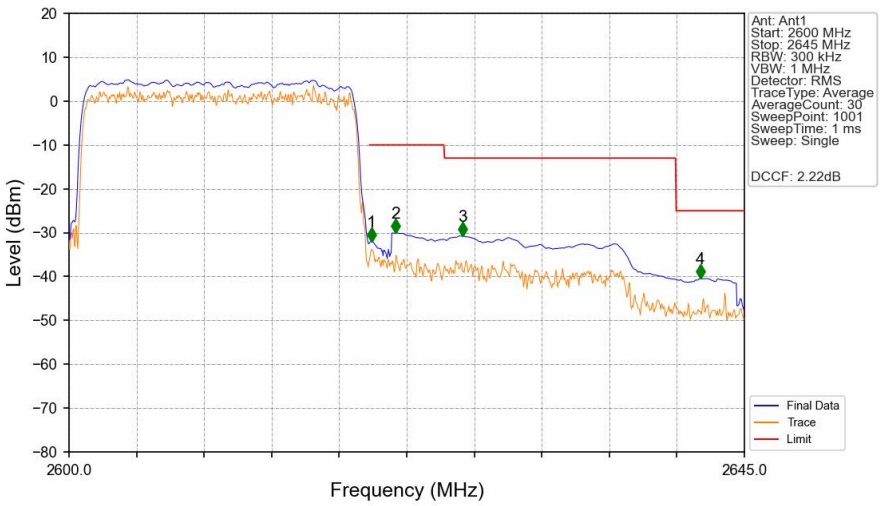


Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



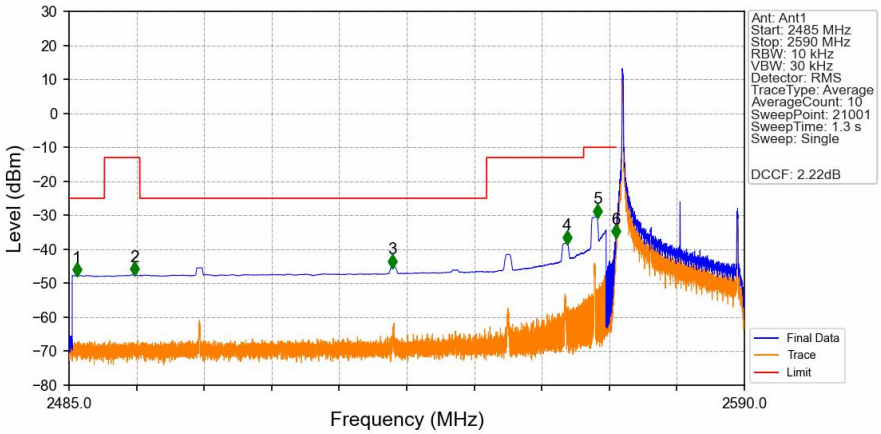
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-39.45	-10	Pass
2621	2625	1	CHP	2	2621.500	-38.92	-10	Pass
2625	2640.45	1	CHP	3	2627.630	-41.51	-13	Pass
2640.45	2645	1	CHP	4	2644.470	-46.60	-25	Pass

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



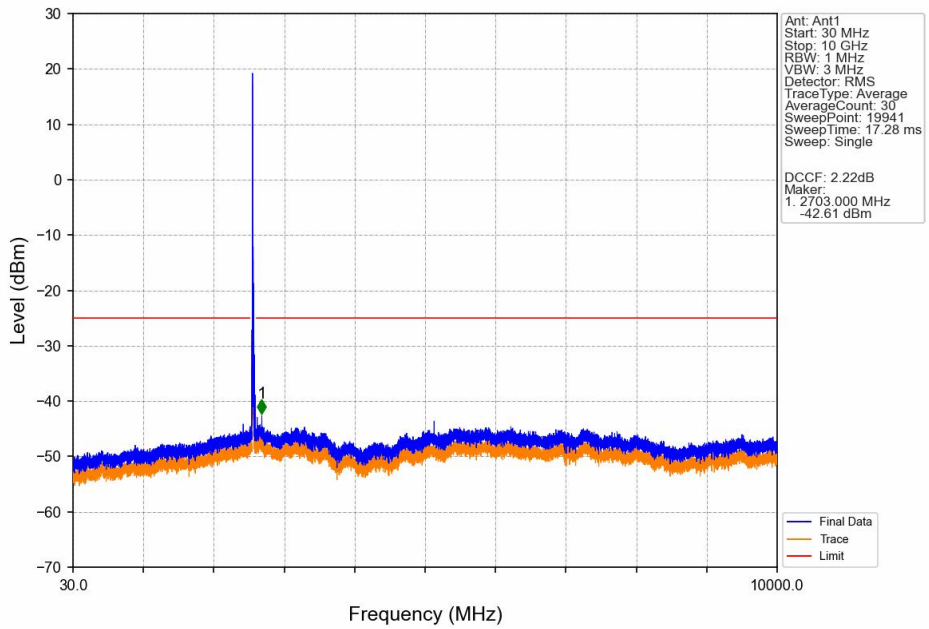
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.409	CHP	/	/	/	/	/
2620	2621	0.409	CHP	1	2620.160	-31.97	-10	Pass
2621	2625	1	CHP	2	2621.780	-30.03	-10	Pass
2625	2640.45	1	CHP	3	2626.235	-30.72	-13	Pass
2640.45	2645	1	CHP	4	2642.075	-40.48	-25	Pass

Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV

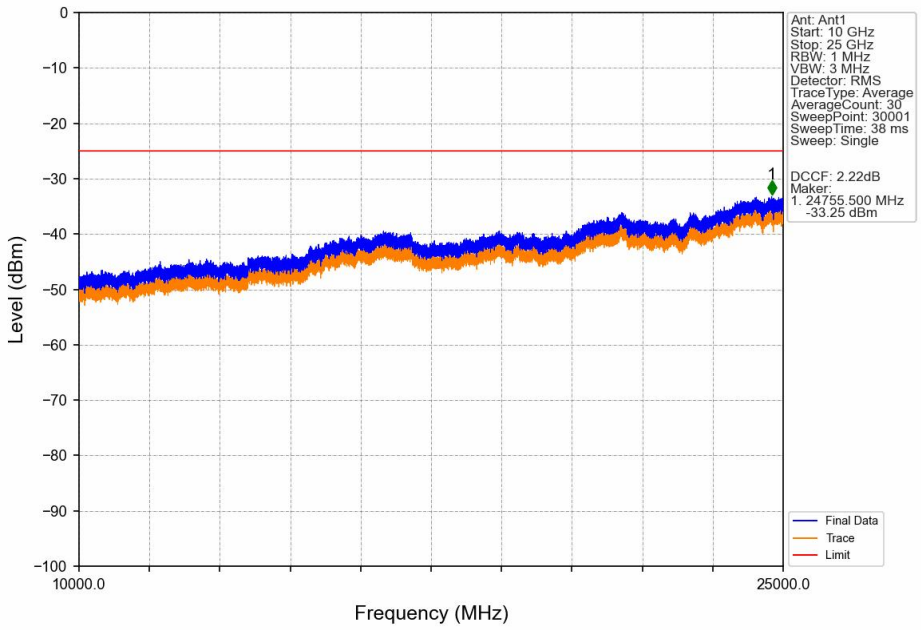


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.230	-47.66	-25	Pass
2490.5	2496	1	CHP	2	2495.235	-47.48	-13	Pass
2496	2549.907	1	CHP	3	2535.290	-45.23	-25	Pass
2549.907	2565	1	CHP	4	2562.390	-38.17	-13	Pass
2565	2569	1	CHP	5	2567.110	-30.45	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-36.35	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

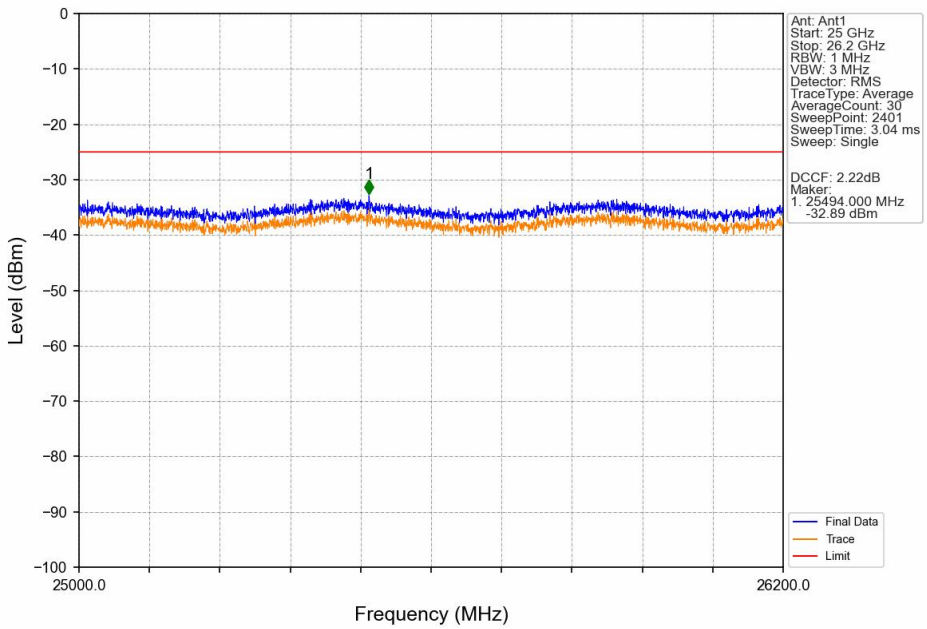
Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV



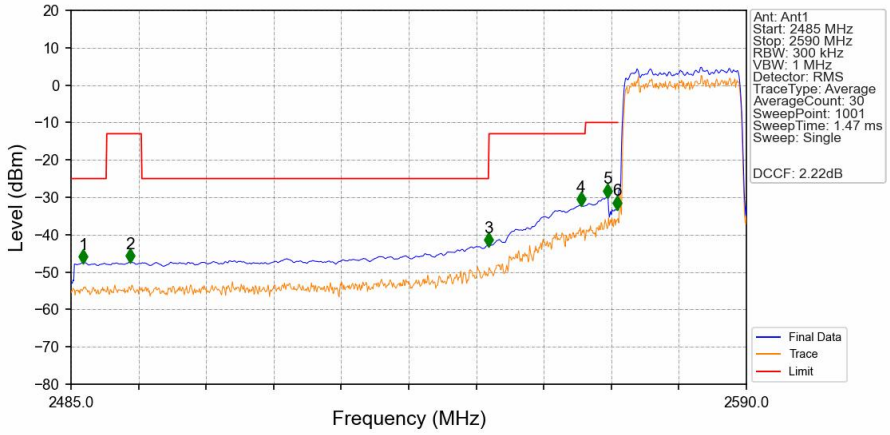
Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_16QAM_LCH_2580MHz_RB_1_0_NTNV

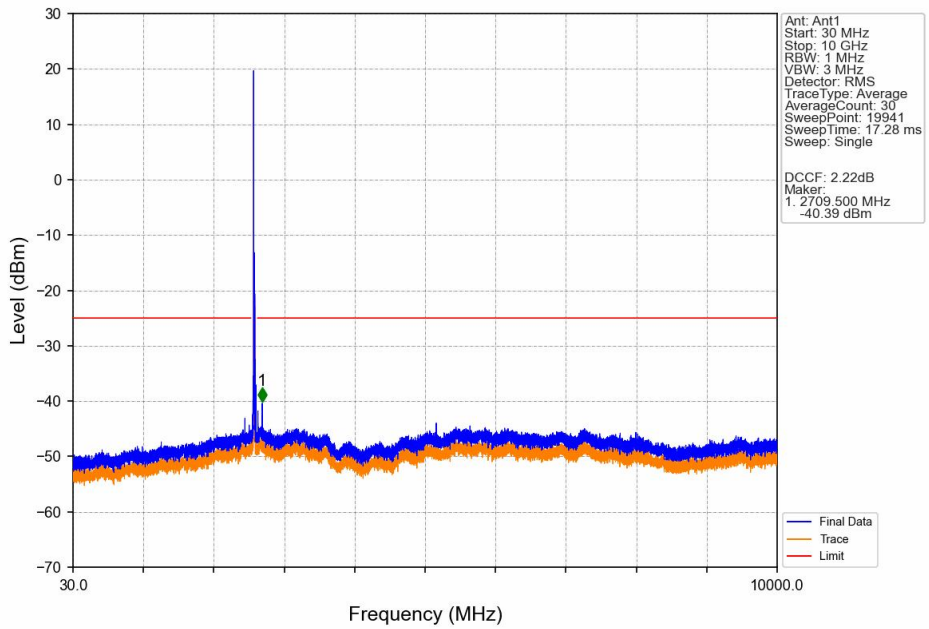


Band38_20MHz_16QAM_LCH_2580MHz_RB_100_0_NTNV

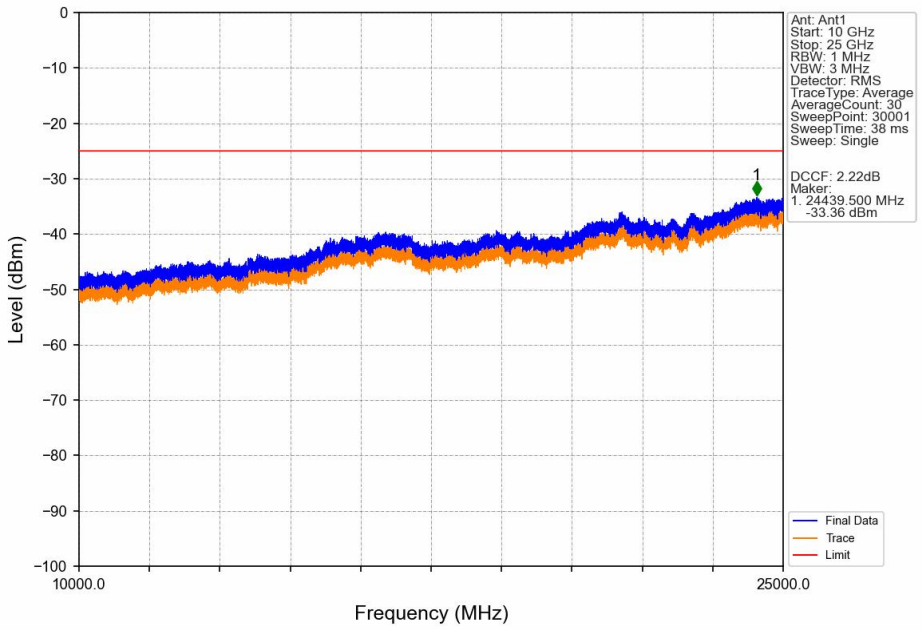


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.890	-47.42	-25	Pass
2490.5	2496	1	CHP	2	2494.240	-47.23	-13	Pass
2496	2549.907	1	CHP	3	2549.890	-42.92	-25	Pass
2549.907	2565	1	CHP	4	2564.275	-32.09	-13	Pass
2565	2569	1	CHP	5	2568.370	-29.78	-10	Pass
2569	2570	0.402	CHP	6	2569.840	-33.00	-10	Pass
2570	2590	0.402	CHP	/	/	/	/	/

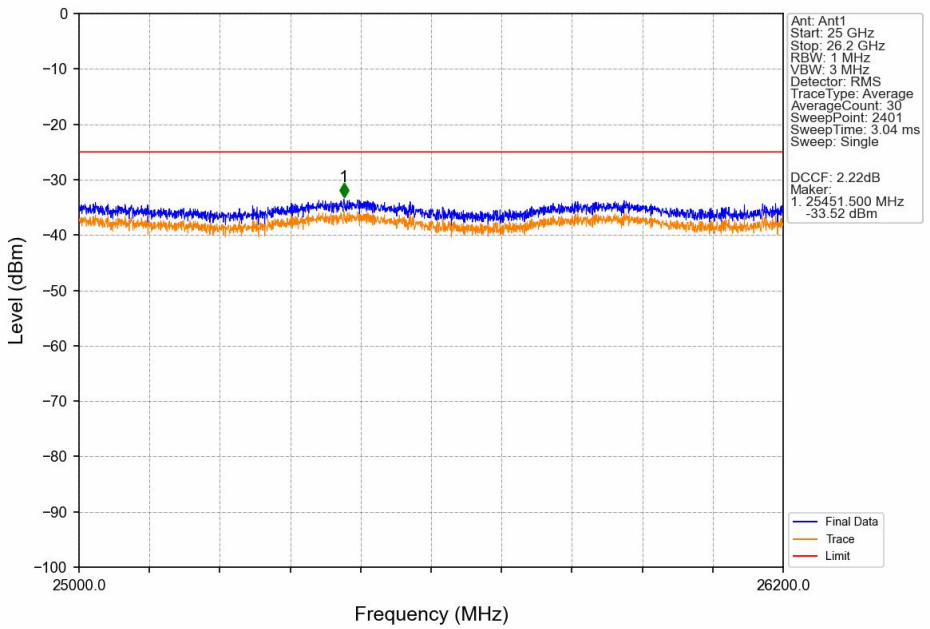
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



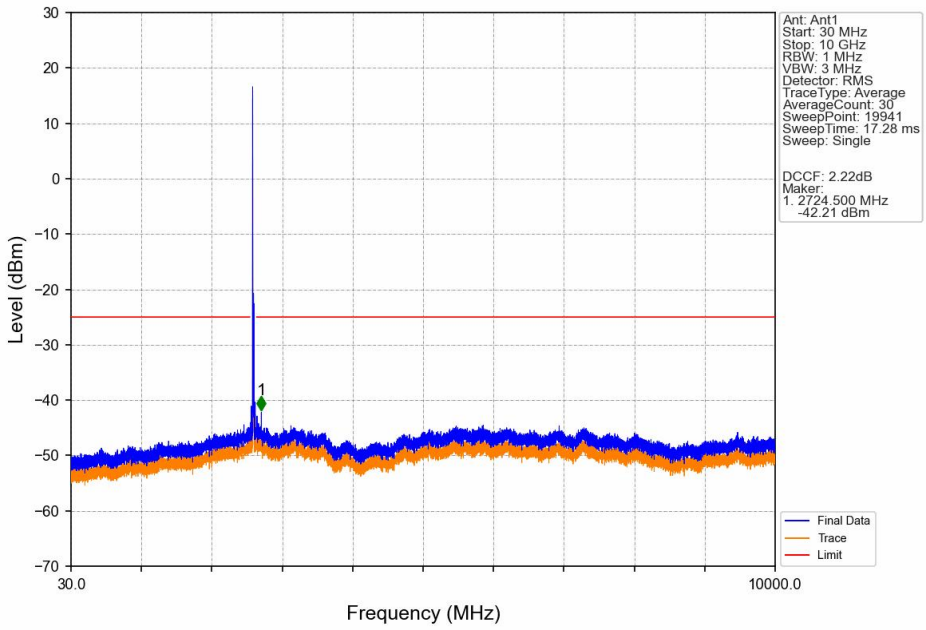
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



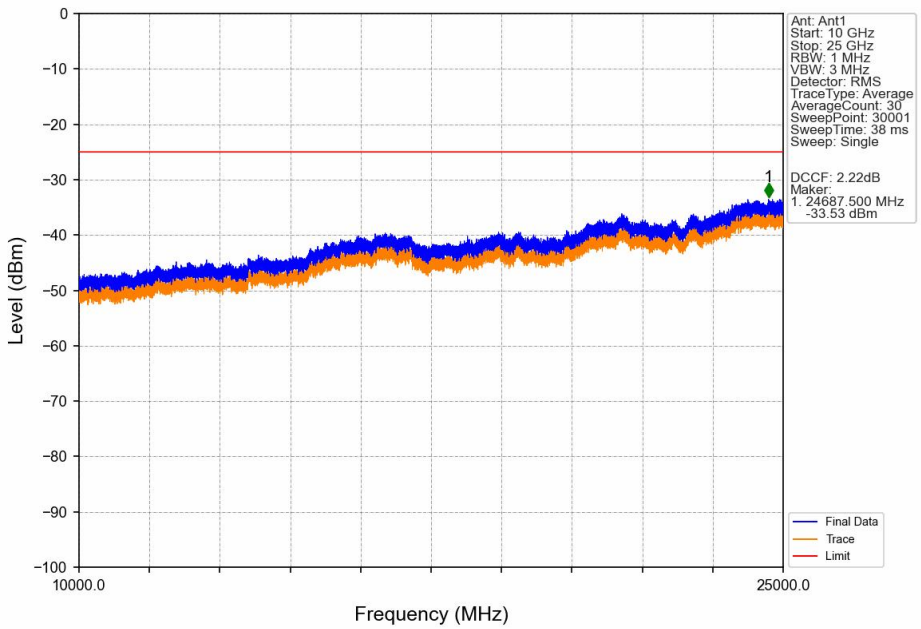
Band38_20MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



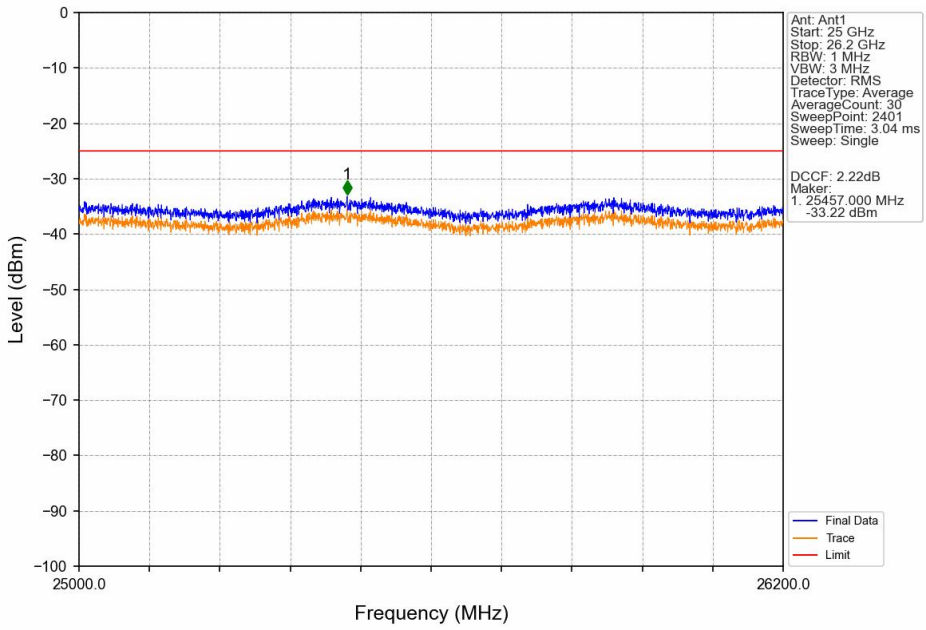
Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



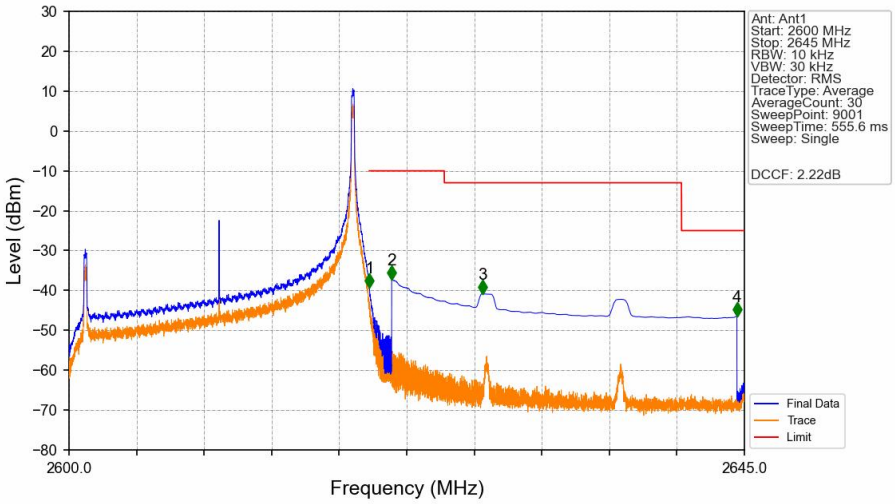
Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_1_0_NTNV

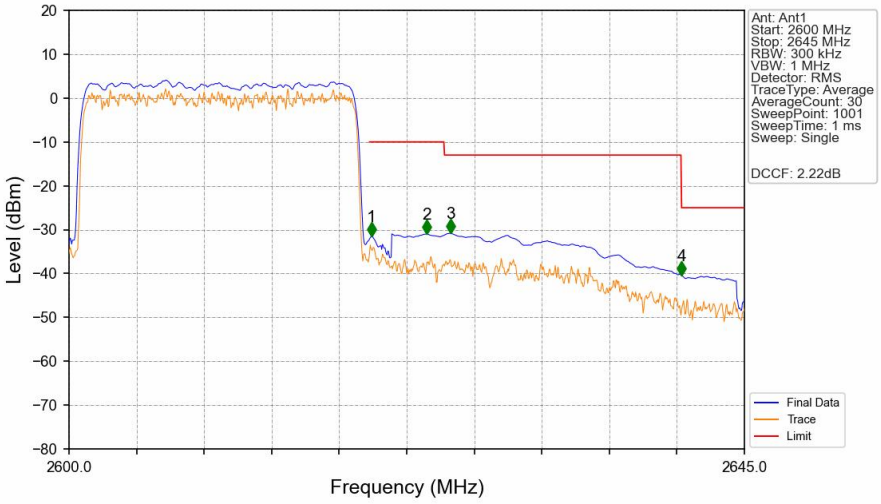


Band38_20MHz_16QAM_HCH_2610MHz_RB_1_99_NTNV



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	2620.020	-39.26	-10	Pass
2621	2625	1	CHP	2	2621.500	-37.32	-10	Pass
2625	2640.809	1	CHP	3	2627.530	-40.84	-13	Pass
2640.809	2645	1	CHP	4	2644.500	-46.43	-25	Pass

Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.416	CHP	/	/	/	/	/
2620	2621	0.416	CHP	1	2620.160	-31.51	-10	Pass
2621	2625	1	CHP	2	2623.850	-30.93	-10	Pass
2625	2640.809	1	CHP	3	2625.425	-30.83	-13	Pass
2640.809	2645	1	CHP	4	2640.815	-40.41	-25	Pass

6. Radiated Spurious Emission

6.1 Test Result

LTE Band 38_Channel Bandwidth 5MHz_QPSK_ Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5145	-49.52	7.15	3.00	9.88	-46.79	-25.00	21.79	H
7717.5	-52.04	8.36	3.00	11.36	-49.04	-25.00	24.04	H
5145	-46.46	7.15	3.00	9.88	-43.73	-25.00	18.73	V
7717.5	-56.12	8.36	3.00	11.36	-53.12	-25.00	28.12	V

LTE Band 38_Channel Bandwidth 5MHz_QPSK_ Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190	-46.86	7.26	3.00	10.03	-44.09	-25.00	19.09	H
7785	-49.79	8.48	3.00	11.41	-46.86	-25.00	21.86	H
5190	-47.96	7.26	3.00	10.03	-45.19	-25.00	20.19	V
7785	-53.5	8.48	3.00	11.41	-50.57	-25.00	25.57	V

LTE Band 38_Channel Bandwidth 5MHz_QPSK_ High Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5235	-46.09	7.17	3.00	9.62	-43.64	-25.00	18.64	H
7852.5	-56.42	8.39	3.00	11.46	-53.35	-25.00	28.35	H
5235	-45.14	7.17	3.00	9.62	-42.69	-25.00	17.69	V
7852.5	-50.28	8.39	3.00	11.46	-47.21	-25.00	22.21	V

LTE Band 38_Channel Bandwidth 10MHz_QPSK_ Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5150	-48.85	7.15	3.00	9.88	-46.12	-25.00	21.12	H
7725	-52.01	8.36	3.00	11.36	-49.01	-25.00	24.01	H
5150	-45.59	7.15	3.00	9.88	-42.86	-25.00	17.86	V
7725	-53.93	8.36	3.00	11.36	-50.93	-25.00	25.93	V

LTE Band 38_Channel Bandwidth 10MHz_QPSK_ Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190	-43.35	7.26	3.00	10.03	-40.58	-25.00	15.58	H
7785	-52.34	8.48	3.00	11.41	-49.41	-25.00	24.41	H
5190	-43.74	7.26	3.00	10.03	-40.97	-25.00	15.97	V

7785	-48.53	8.48	3.00	11.41	-45.60	-25.00	20.6	V

LTE Band 38_Channel Bandwidth 10MHz_QPSK_ High Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5230	-43.66	7.17	3.00	9.62	-41.21	-25.00	16.21	H
7845	-49.41	8.39	3.00	11.46	-46.34	-25.00	21.34	H
5230	-48.97	7.17	3.00	9.62	-46.52	-25.00	21.52	V
7845	-50.12	8.39	3.00	11.46	-47.05	-25.00	22.05	V

LTE Band 38_Channel Bandwidth 20MHz_QPSK_ Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5160	-45.43	7.15	3.00	9.88	-42.70	-25.00	17.7	H
7740	-53.08	8.36	3.00	11.36	-50.08	-25.00	25.08	H
5160	-46.32	7.15	3.00	9.88	-43.59	-25.00	18.59	V
7740	-51.49	8.36	3.00	11.36	-48.49	-25.00	23.49	V

LTE Band 38_Channel Bandwidth 20MHz_QPSK_ Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190	-45.47	7.26	3.00	10.03	-45.38	-25.00	17.7	H
7785	-53.01	8.48	3.00	11.41	-48.34	-25.00	25.08	H
5190	-46.36	7.26	3.00	10.03	-41.31	-25.00	18.59	V
7785	-51.42	8.48	3.00	11.41	-51.34	-25.00	23.49	V

LTE Band 38_Channel Bandwidth 20MHz_QPSK_ High Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5220	-46.54	7.17	3.00	9.62	-44.09	-25.00	19.09	H
7830	-51.33	8.39	3.00	11.46	-48.26	-25.00	23.26	H
5220	-46.73	7.17	3.00	9.62	-44.28	-25.00	19.28	V
7830	-57.28	8.39	3.00	11.46	-54.21	-25.00	29.21	V

1. EIRP=P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)
2. Margin = Limit - EIRP
3. We were not recorded other points as values lower than limits.