

Annex for FCC LTE Band 40a

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B40a_5MHz_EIRP

Band: 40a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.84	0.00	22.84	<=23.98	Pass
			13	22.85	0.00	22.85	<=23.98	Pass
			24	22.81	0.00	22.81	<=23.98	Pass
		12	0	21.80	0.00	21.80	<=23.98	Pass
			6	21.88	0.00	21.88	<=23.98	Pass
			13	21.81	0.00	21.81	<=23.98	Pass
		25	0	21.89	0.00	21.89	<=23.98	Pass
	2310	1	0	22.76	0.00	22.76	<=23.98	Pass
			13	22.82	0.00	22.82	<=23.98	Pass
			24	22.93	0.00	22.93	<=23.98	Pass
		12	0	21.83	0.00	21.83	<=23.98	Pass
			6	21.71	0.00	21.71	<=23.98	Pass
			13	21.85	0.00	21.85	<=23.98	Pass
		25	0	21.81	0.00	21.81	<=23.98	Pass
	2312.5	1	0	22.70	0.00	22.70	<=23.98	Pass
			13	22.85	0.00	22.85	<=23.98	Pass
			24	22.91	0.00	22.91	<=23.98	Pass
		12	0	21.87	0.00	21.87	<=23.98	Pass
			6	21.98	0.00	21.98	<=23.98	Pass
			13	21.75	0.00	21.75	<=23.98	Pass
		25	0	21.83	0.00	21.83	<=23.98	Pass
16QAM	2307.5	1	0	21.86	0.00	21.86	<=23.98	Pass
			13	22.74	0.00	22.74	<=23.98	Pass
			24	21.65	0.00	21.65	<=23.98	Pass
		12	0	20.88	0.00	20.88	<=23.98	Pass
			6	20.74	0.00	20.74	<=23.98	Pass
			13	20.95	0.00	20.95	<=23.98	Pass
		25	0	21.02	0.00	21.02	<=23.98	Pass
	2310	1	0	21.41	0.00	21.41	<=23.98	Pass
			13	21.86	0.00	21.86	<=23.98	Pass
			24	22.71	0.00	22.71	<=23.98	Pass
		12	0	20.84	0.00	20.84	<=23.98	Pass
			6	20.91	0.00	20.91	<=23.98	Pass
			13	20.79	0.00	20.79	<=23.98	Pass
		25	0	21.00	0.00	21.00	<=23.98	Pass
	2312.5	1	0	22.70	0.00	22.70	<=23.98	Pass
			13	21.31	0.00	21.31	<=23.98	Pass
			24	21.84	0.00	21.84	<=23.98	Pass
		12	0	20.90	0.00	20.90	<=23.98	Pass
			6	20.96	0.00	20.96	<=23.98	Pass
			13	20.96	0.00	20.96	<=23.98	Pass
		25	0	20.90	0.00	20.90	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B40a_10MHz_EIRP

Band: 40a / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.84	0.00	22.84	<=23.98	Pass
			25	22.95	0.00	22.95	<=23.98	Pass
			49	22.80	0.00	22.80	<=23.98	Pass
		25	0	21.82	0.00	21.82	<=23.98	Pass
			13	21.82	0.00	21.82	<=23.98	Pass
			25	21.97	0.00	21.97	<=23.98	Pass
		50	0	21.86	0.00	21.86	<=23.98	Pass
			0	22.40	0.00	22.40	<=23.98	Pass
			0	21.71	0.00	21.71	<=23.98	Pass
16QAM	2310	1	25	22.14	0.00	22.14	<=23.98	Pass
			0	21.02	0.00	21.02	<=23.98	Pass
			13	21.09	0.00	21.09	<=23.98	Pass
		25	25	20.88	0.00	20.88	<=23.98	Pass
			0	21.02	0.00	21.02	<=23.98	Pass
			0	21.02	0.00	21.02	<=23.98	Pass
		50	0	21.02	0.00	21.02	<=23.98	Pass
			0	21.02	0.00	21.02	<=23.98	Pass
			0	21.02	0.00	21.02	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B40a_5MHz

Band: 40a / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2307.5	25	0	20	3.15	39.139	0.0170	-2.5 to 2.5	Pass
					3.7	-18.067	-0.0078	-2.5 to 2.5	Pass
					4.26	-32.759	-0.0142	-2.5 to 2.5	Pass
				-30	3.7	-37.737	-0.0164	-2.5 to 2.5	Pass
				-20	3.7	-41.370	-0.0179	-2.5 to 2.5	Pass
				-10	3.7	-51.341	-0.0222	-2.5 to 2.5	Pass
				0	3.7	-41.184	-0.0178	-2.5 to 2.5	Pass
				10	3.7	-46.806	-0.0203	-2.5 to 2.5	Pass
				30	3.7	-39.325	-0.0170	-2.5 to 2.5	Pass
				40	3.7	-36.378	-0.0158	-2.5 to 2.5	Pass
				50	3.7	-33.946	-0.0147	-2.5 to 2.5	Pass
	2310	25	0	20	3.15	14.291	0.0062	-2.5 to 2.5	Pass
					3.7	15.149	0.0066	-2.5 to 2.5	Pass
					4.26	-2.103	-0.0009	-2.5 to 2.5	Pass
				-30	3.7	-20.170	-0.0087	-2.5 to 2.5	Pass
				-20	3.7	-19.484	-0.0084	-2.5 to 2.5	Pass
				-10	3.7	-26.264	-0.0114	-2.5 to 2.5	Pass
				0	3.7	-26.164	-0.0113	-2.5 to 2.5	Pass
				10	3.7	-26.908	-0.0116	-2.5 to 2.5	Pass
				30	3.7	-36.950	-0.0160	-2.5 to 2.5	Pass
				40	3.7	-41.728	-0.0181	-2.5 to 2.5	Pass
				50	3.7	-45.490	-0.0197	-2.5 to 2.5	Pass
	2312.5	25	0	20	3.15	19.355	0.0084	-2.5 to 2.5	Pass
					3.7	19.283	0.0083	-2.5 to 2.5	Pass
					4.26	4.077	0.0018	-2.5 to 2.5	Pass
				-30	3.7	2.131	0.0009	-2.5 to 2.5	Pass
				-20	3.7	-6.151	-0.0027	-2.5 to 2.5	Pass

Model: Q8-1

16QAM	2307.5	25	0	-10	3.7	-13.919	-0.0060	-2.5 to 2.5	Pass
				0	3.7	-16.494	-0.0071	-2.5 to 2.5	Pass
				10	3.7	-19.970	-0.0086	-2.5 to 2.5	Pass
				30	3.7	-23.775	-0.0103	-2.5 to 2.5	Pass
				40	3.7	-25.392	-0.0110	-2.5 to 2.5	Pass
	2310	25	0	50	3.7	-28.925	-0.0125	-2.5 to 2.5	Pass
				20	3.15	23.518	0.0102	-2.5 to 2.5	Pass
					3.7	0.958	0.0004	-2.5 to 2.5	Pass
					4.26	12.503	0.0054	-2.5 to 2.5	Pass
				-30	3.7	11.859	0.0051	-2.5 to 2.5	Pass
				-20	3.7	22.602	0.0098	-2.5 to 2.5	Pass
				-10	3.7	23.575	0.0102	-2.5 to 2.5	Pass
				0	3.7	30.684	0.0133	-2.5 to 2.5	Pass
				10	3.7	36.778	0.0159	-2.5 to 2.5	Pass
				30	3.7	-6.008	-0.0026	-2.5 to 2.5	Pass
				40	3.7	1.273	0.0006	-2.5 to 2.5	Pass
				50	3.7	0.029	0.0000	-2.5 to 2.5	Pass
	2312.5	25	0	20	3.15	23.303	0.0101	-2.5 to 2.5	Pass
					3.7	5.751	0.0025	-2.5 to 2.5	Pass
					4.26	3.161	0.0014	-2.5 to 2.5	Pass
				-30	3.7	10.986	0.0048	-2.5 to 2.5	Pass
				-20	3.7	20.885	0.0090	-2.5 to 2.5	Pass
				-10	3.7	29.969	0.0130	-2.5 to 2.5	Pass
				0	3.7	35.462	0.0154	-2.5 to 2.5	Pass
				10	3.7	42.901	0.0186	-2.5 to 2.5	Pass
				30	3.7	9.871	0.0043	-2.5 to 2.5	Pass
				40	3.7	15.650	0.0068	-2.5 to 2.5	Pass
				50	3.7	22.659	0.0098	-2.5 to 2.5	Pass
				20	3.15	6.495	0.0028	-2.5 to 2.5	Pass
					3.7	22.359	0.0097	-2.5 to 2.5	Pass
					4.26	20.757	0.0090	-2.5 to 2.5	Pass
				-30	3.7	13.790	0.0060	-2.5 to 2.5	Pass
				-20	3.7	7.324	0.0032	-2.5 to 2.5	Pass
				-10	3.7	-1.888	-0.0008	-2.5 to 2.5	Pass
				0	3.7	-3.734	-0.0016	-2.5 to 2.5	Pass
				10	3.7	-15.550	-0.0067	-2.5 to 2.5	Pass
				30	3.7	-21.186	-0.0092	-2.5 to 2.5	Pass
				40	3.7	-23.704	-0.0103	-2.5 to 2.5	Pass
				50	3.7	-28.725	-0.0124	-2.5 to 2.5	Pass

2.1.2 B40a_10MHz

Band: 40a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	3.15	18.425	0.0080	-2.5 to 2.5	Pass
					3.7	-18.396	-0.0080	-2.5 to 2.5	Pass
					4.26	-48.966	-0.0212	-2.5 to 2.5	Pass
				-30	3.7	-25.377	-0.0110	-2.5 to 2.5	Pass
				-20	3.7	-40.855	-0.0177	-2.5 to 2.5	Pass
				-10	3.7	-45.962	-0.0199	-2.5 to 2.5	Pass
				0	3.7	-9.971	-0.0043	-2.5 to 2.5	Pass
				10	3.7	-21.944	-0.0095	-2.5 to 2.5	Pass
				30	3.7	-29.197	-0.0126	-2.5 to 2.5	Pass
				40	3.7	-32.244	-0.0140	-2.5 to 2.5	Pass
				50	3.7	-38.166	-0.0165	-2.5 to 2.5	Pass
				20	3.15	16.837	0.0073	-2.5 to 2.5	Pass
16QAM	2310	50	0		3.7	36.292	0.0157	-2.5 to 2.5	Pass

Model: Q8-1

					4.26	36.092	0.0156	-2.5 to 2.5	Pass
				-30	3.7	38.009	0.0165	-2.5 to 2.5	Pass
				-20	3.7	35.520	0.0154	-2.5 to 2.5	Pass
				-10	3.7	31.872	0.0138	-2.5 to 2.5	Pass
				0	3.7	37.766	0.0163	-2.5 to 2.5	Pass
				10	3.7	38.610	0.0167	-2.5 to 2.5	Pass
				30	3.7	36.335	0.0157	-2.5 to 2.5	Pass
				40	3.7	41.113	0.0178	-2.5 to 2.5	Pass
				50	3.7	-1.416	-0.0006	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band40a_99% Occupied Bandwidth

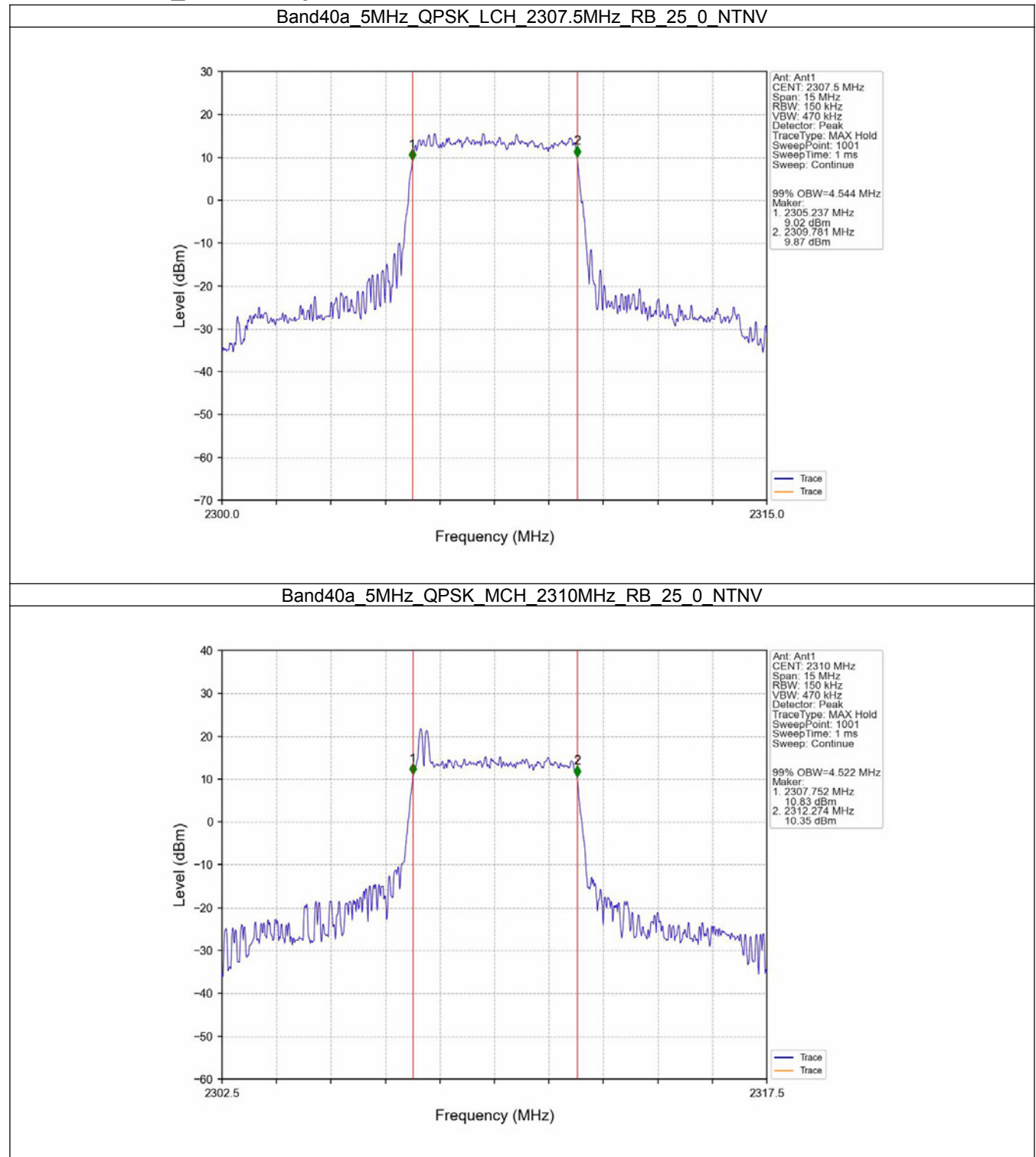
Band: 40a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	4.544	/	Pass
		2310	25	0	4.522	/	Pass
		2312.5	25	0	4.551	/	Pass
	16QAM	2307.5	25	0	4.537	/	Pass
		2310	25	0	4.559	/	Pass
		2312.5	25	0	4.612	/	Pass
10	QPSK	2310	50	0	9.055	/	Pass
	16QAM	2310	50	0	9.078	/	Pass

3.1.2 Band40a_26dB Occupied Bandwidth

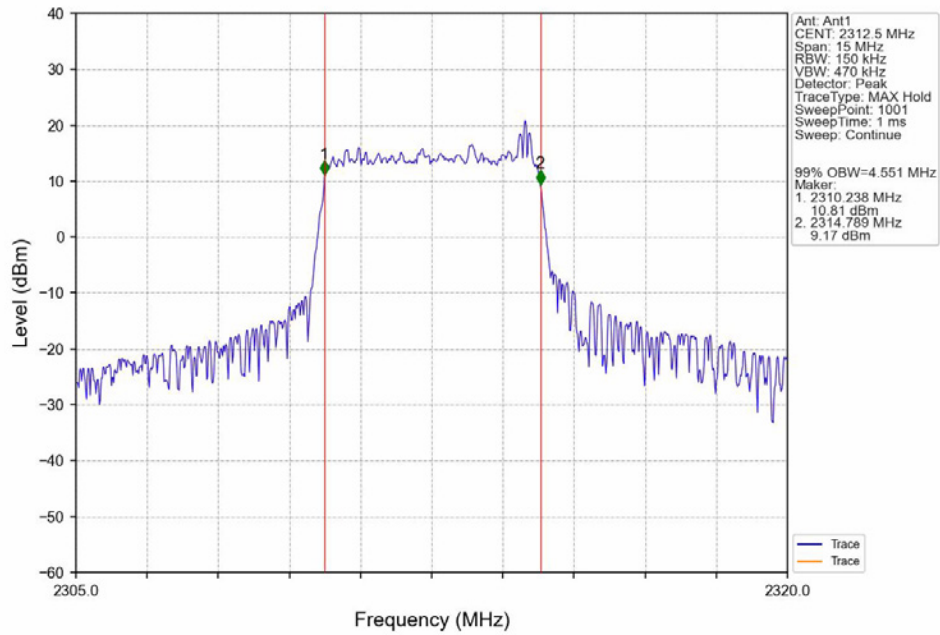
Band: 40a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2307.5	25	0	5.173	/	Pass
		2310	25	0	4.890	/	Pass
		2312.5	25	0	4.964	/	Pass
	16QAM	2307.5	25	0	4.899	/	Pass
		2310	25	0	5.071	/	Pass
		2312.5	25	0	5.201	/	Pass
10	QPSK	2310	50	0	9.694	/	Pass
	16QAM	2310	50	0	10.046	/	Pass

3.2 Test Graph

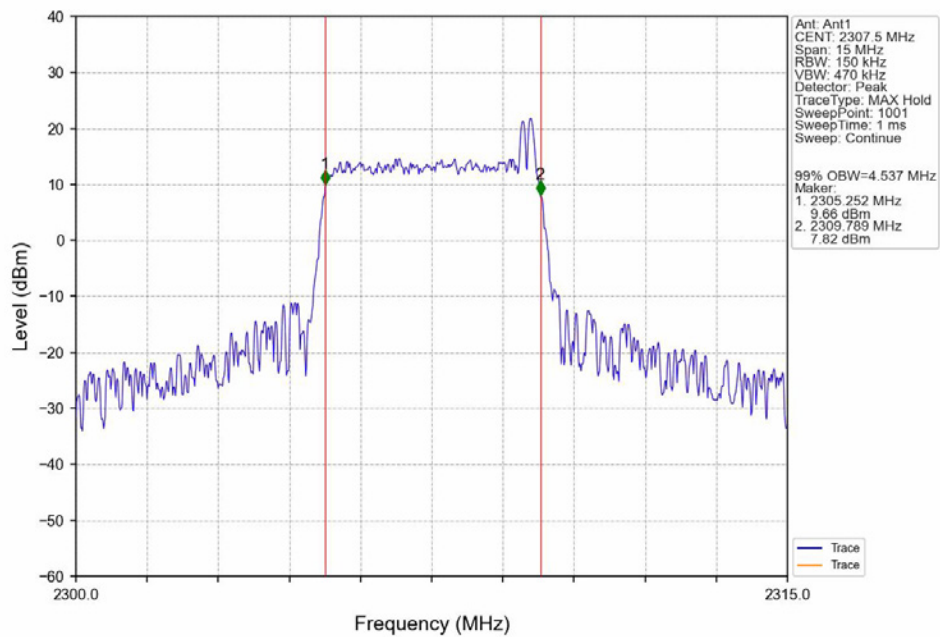
3.2.1 Band40a_99% Occupied Bandwidth



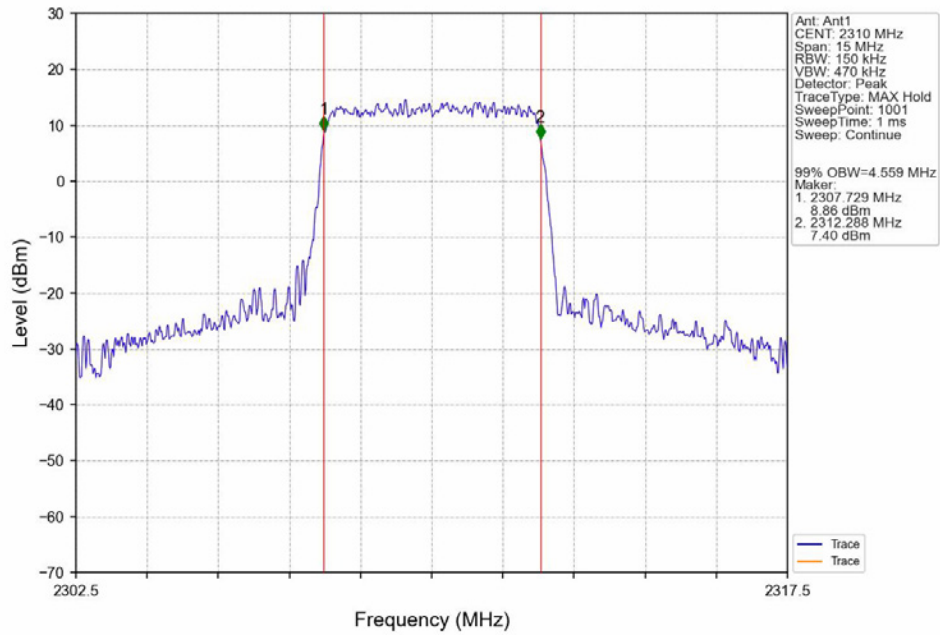
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



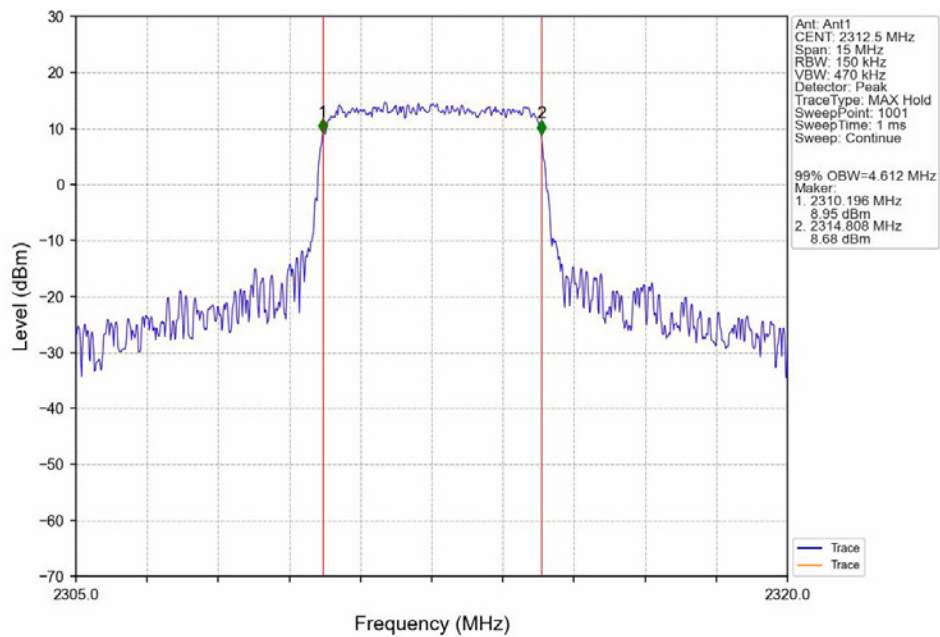
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



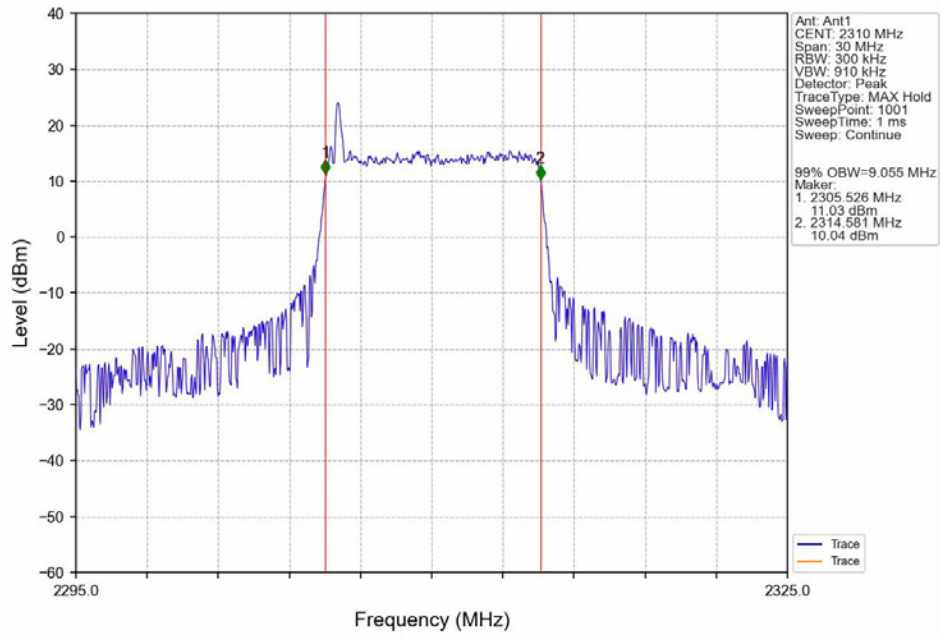
Band40a_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



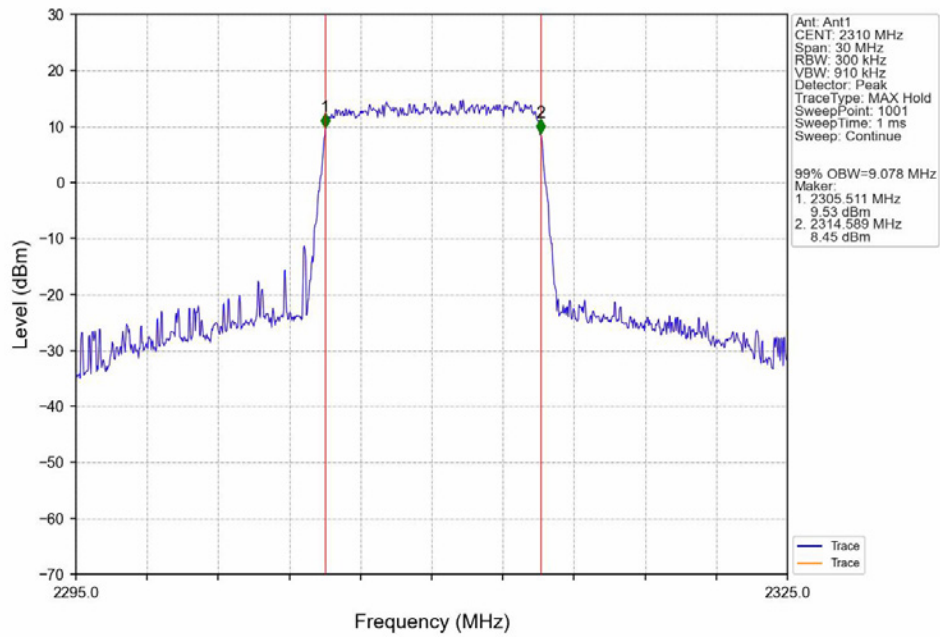
Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



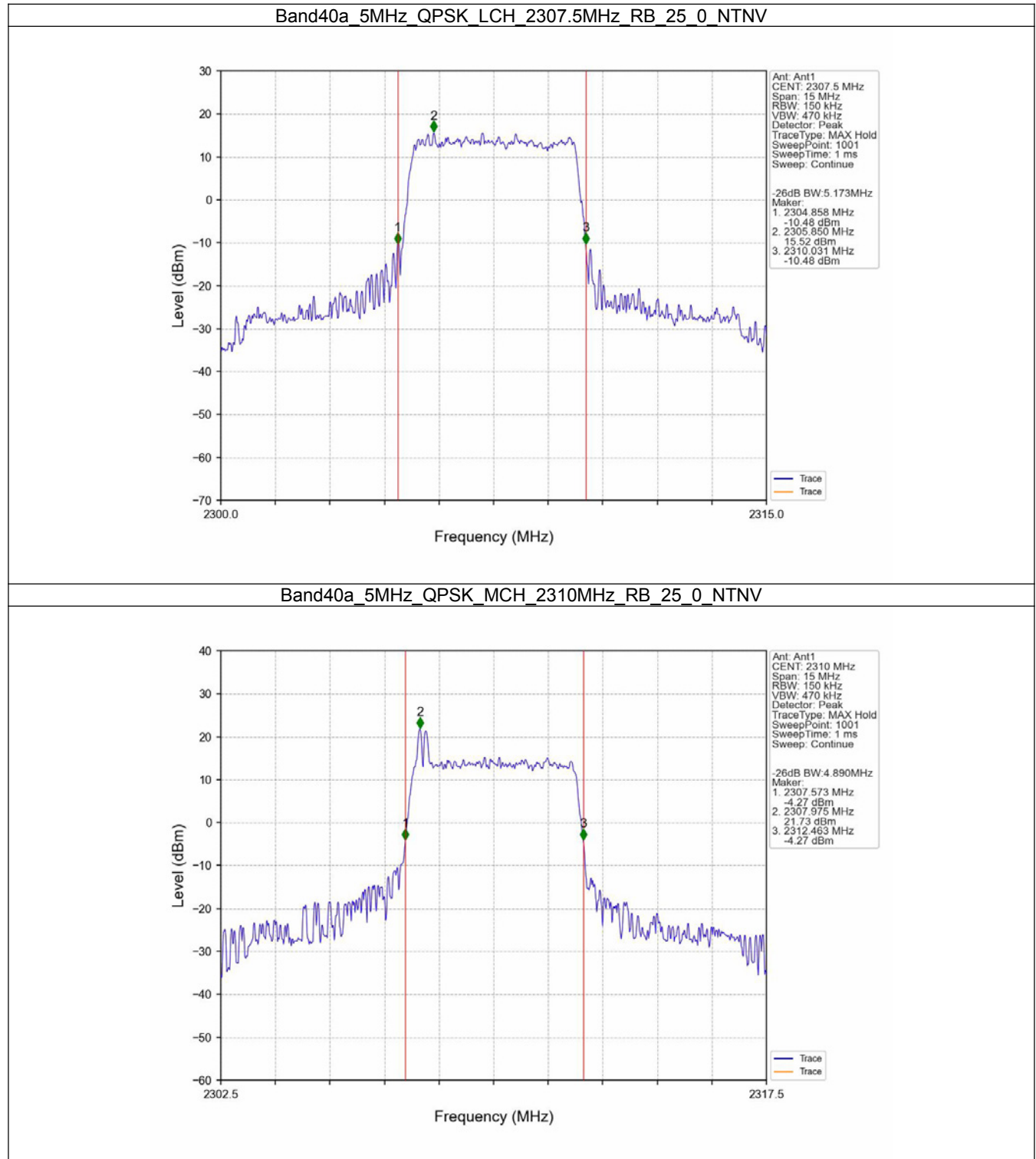
Band40a_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



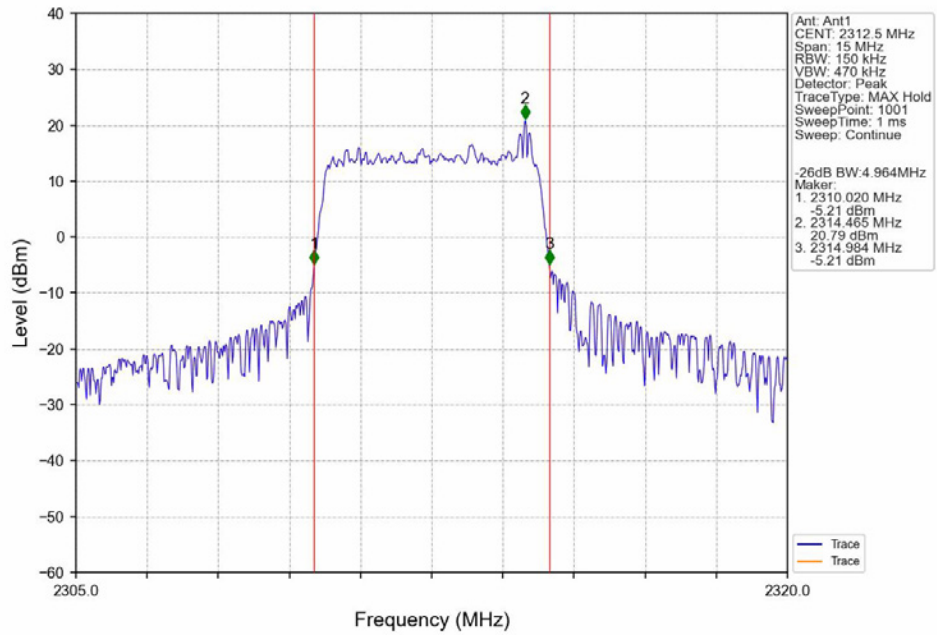
Band40a_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



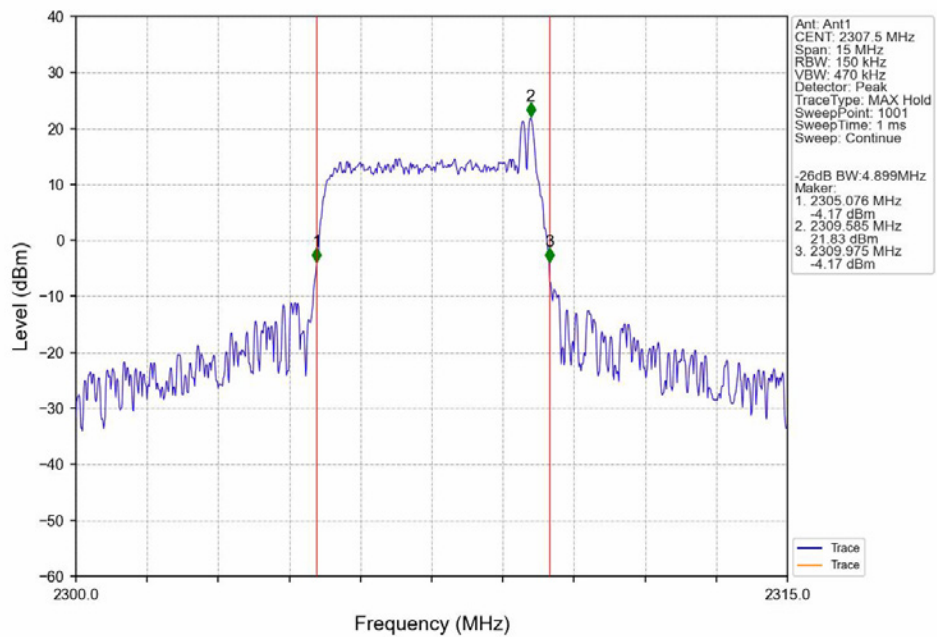
3.2.2 Band40a_26dB Occupied Bandwidth



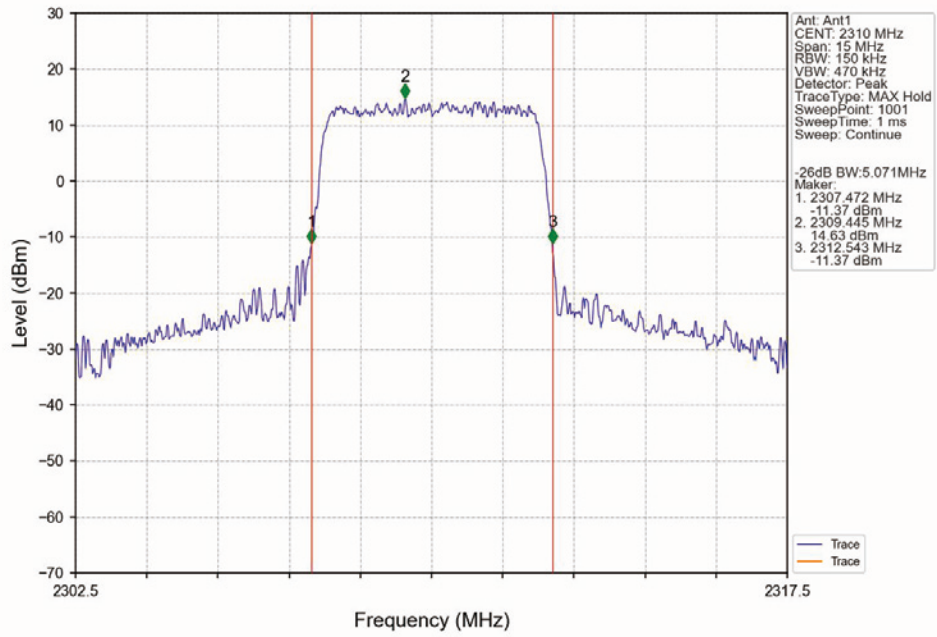
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



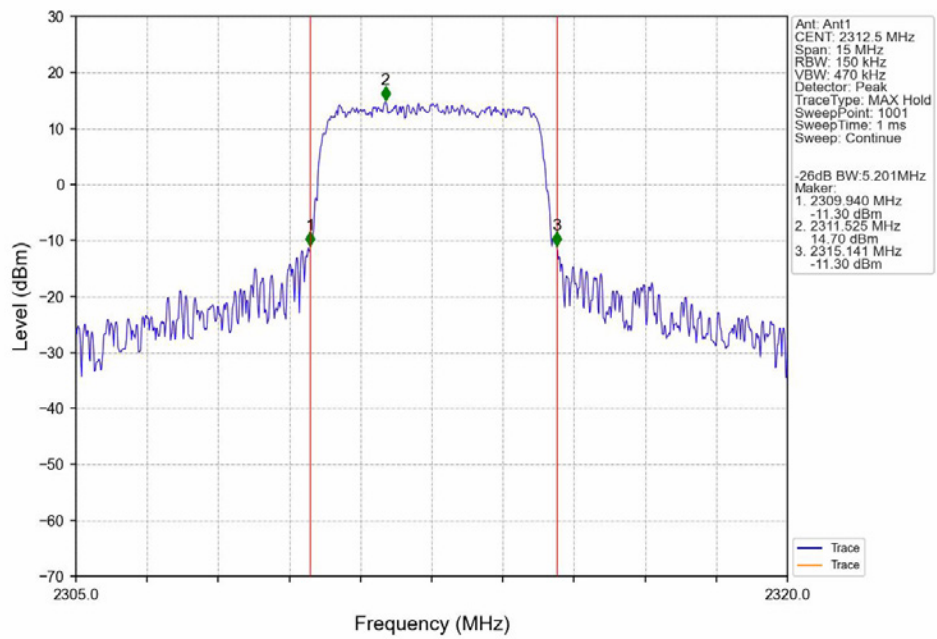
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



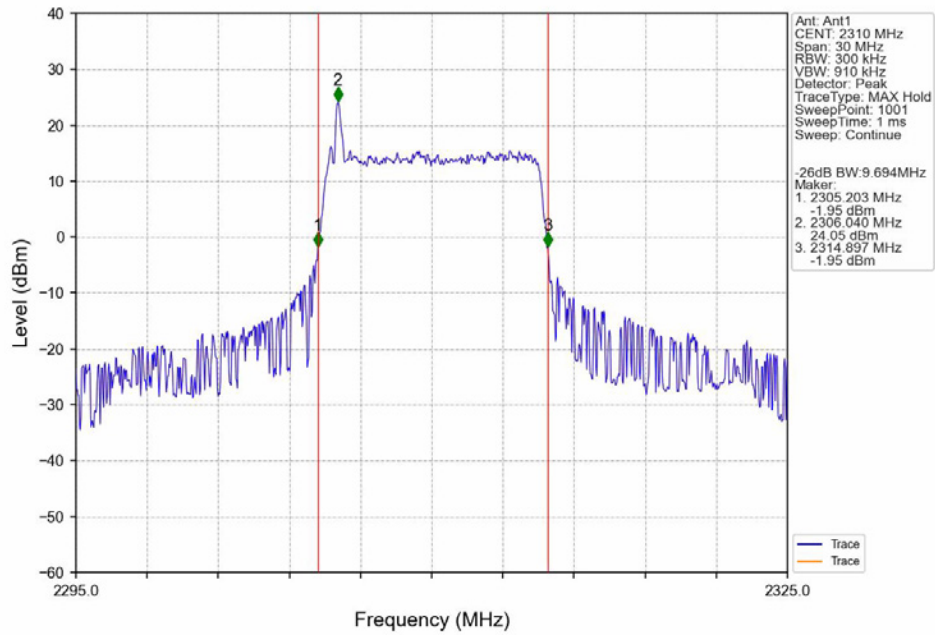
Band40a_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



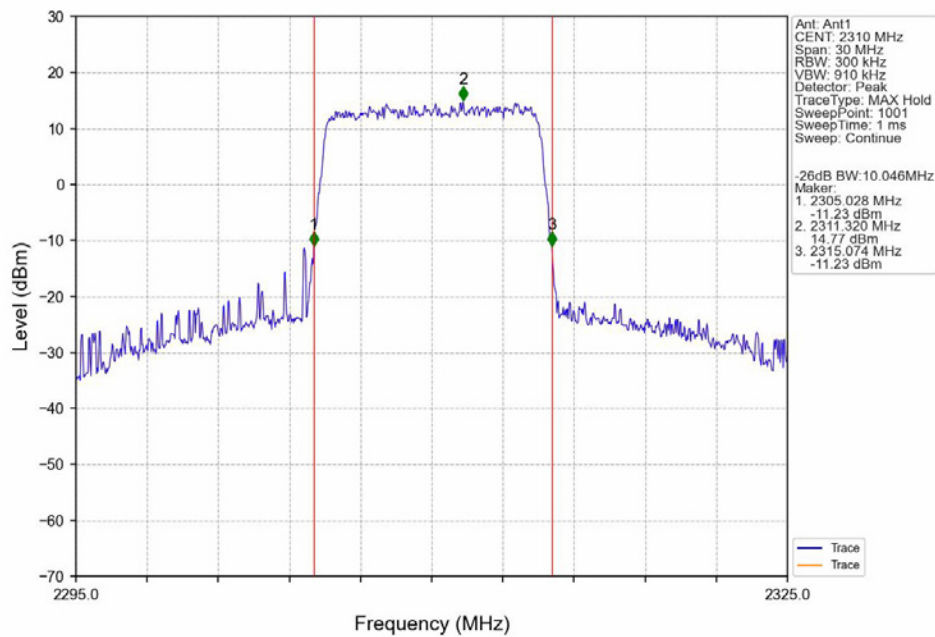
Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



Band40a_10MHz_QPSK_MCH_2310MHz_RB_50_0_NTNV



Band40a_10MHz_16QAM_MCH_2310MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B40a_5MHz

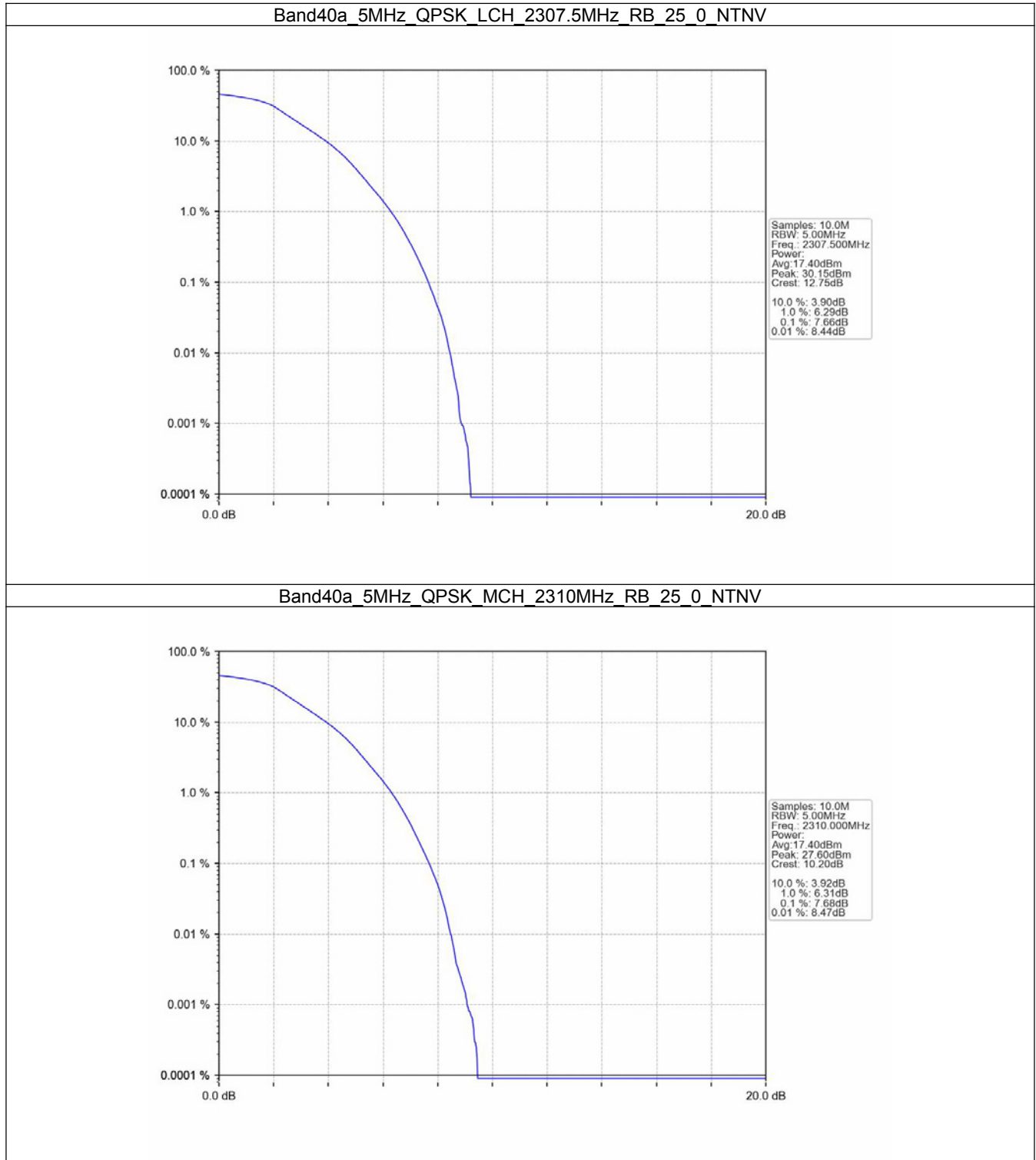
Band: 40a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	7.66	<=13	Pass
	2310	25	0	7.68	<=13	Pass
	2312.5	25	0	7.67	<=13	Pass
16QAM	2307.5	25	0	8.41	<=13	Pass
	2310	25	0	8.30	<=13	Pass
	2312.5	25	0	8.33	<=13	Pass

4.1.2 B40a_10MHz

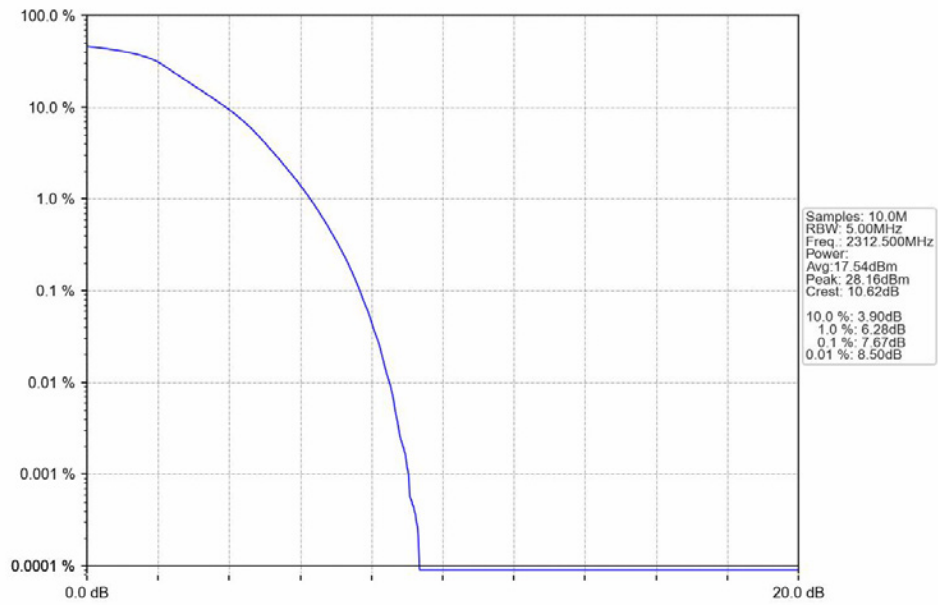
Band: 40a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	7.73	<=13	Pass
16QAM	2310	50	0	8.38	<=13	Pass

4.2 Test Graph

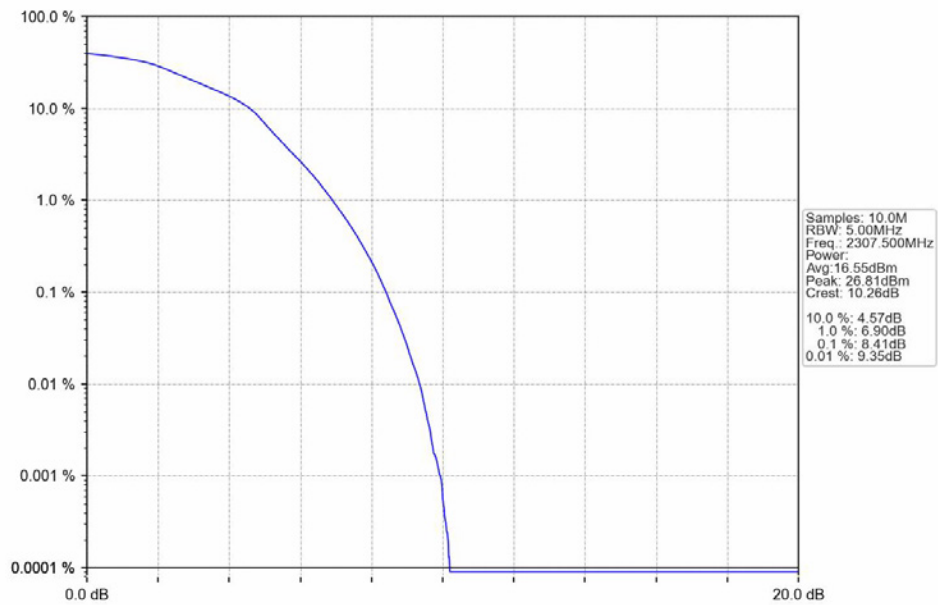
4.2.1 B40a_5MHz



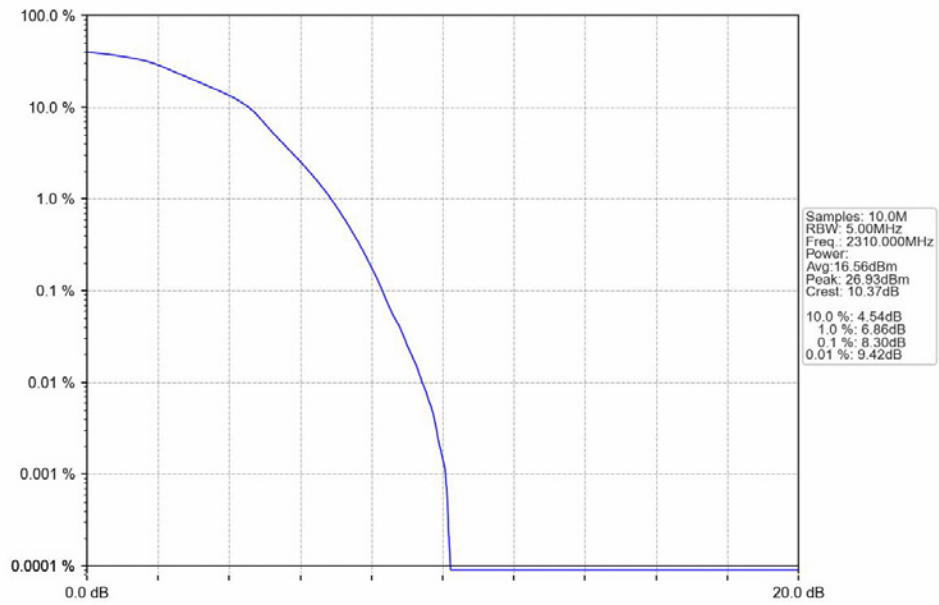
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



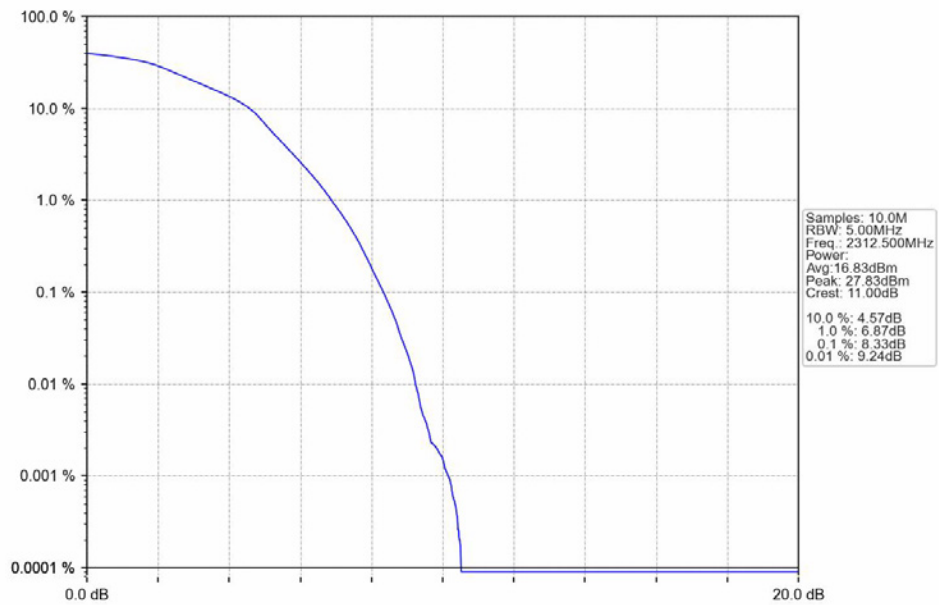
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



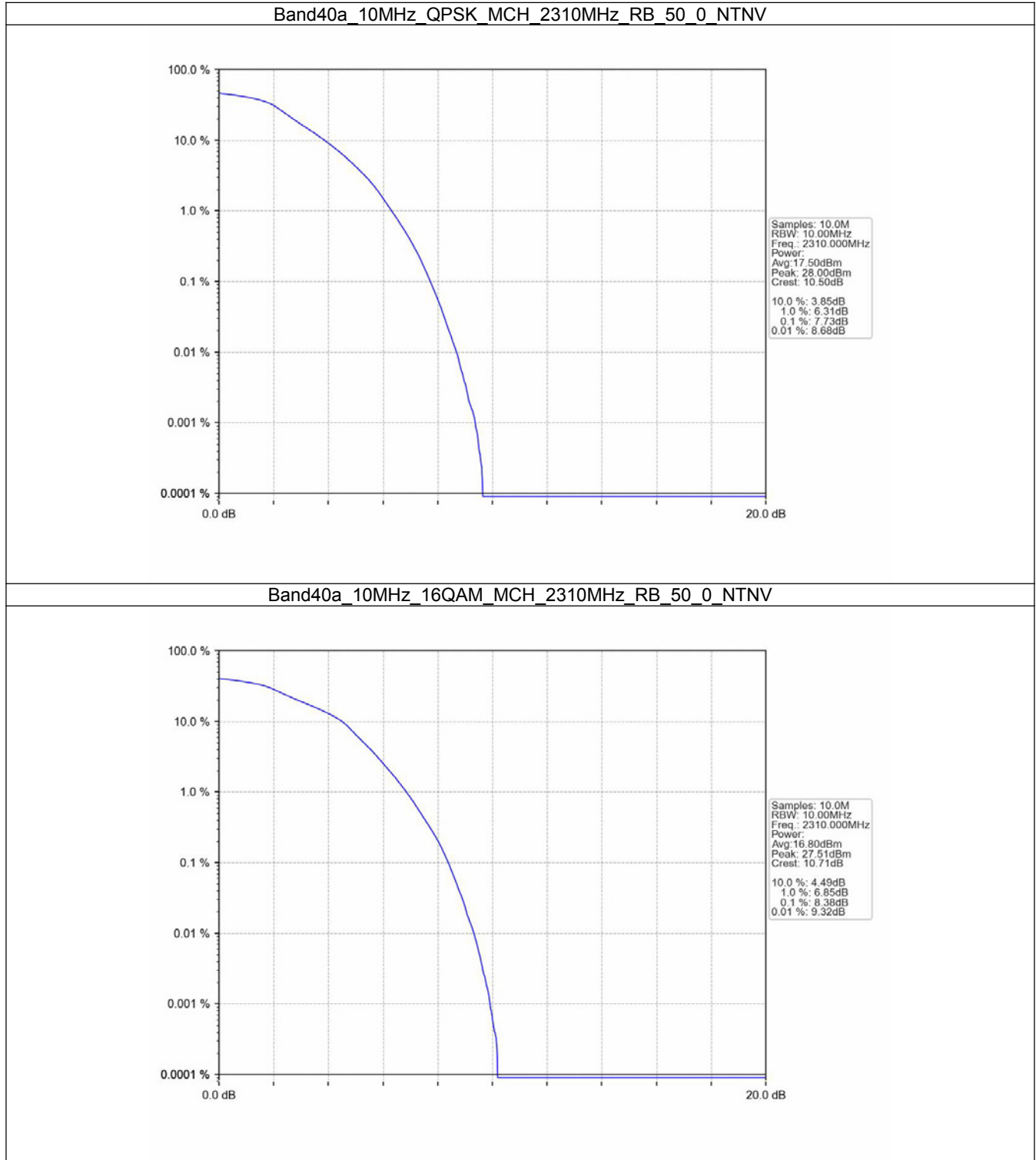
Band40a_5MHz_16QAM_MCH_2310MHz_RB_25_0_NTNV



Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



4.2.2 B40a_10MHz



5. Conducted Emission and Band Edge

5.1 Test Result

5.1.1 B40a_5MHz

Band: 40a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

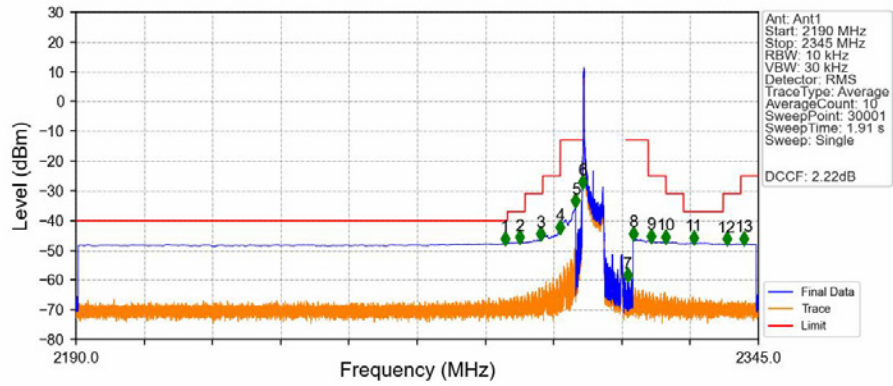
5.1.2 B40a_10MHz

Band: 40a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

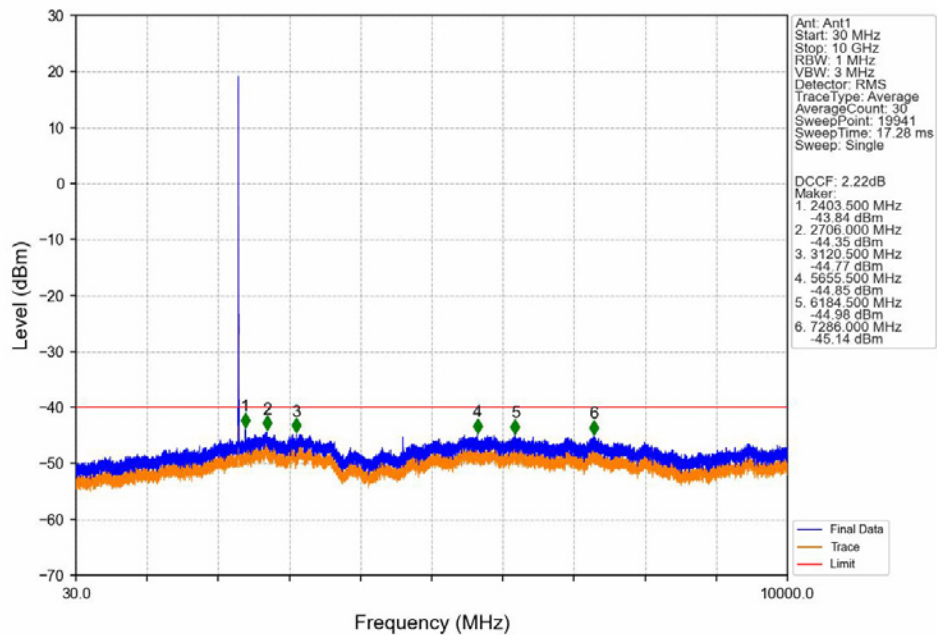
5.2.1 B40a_5MHz

Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

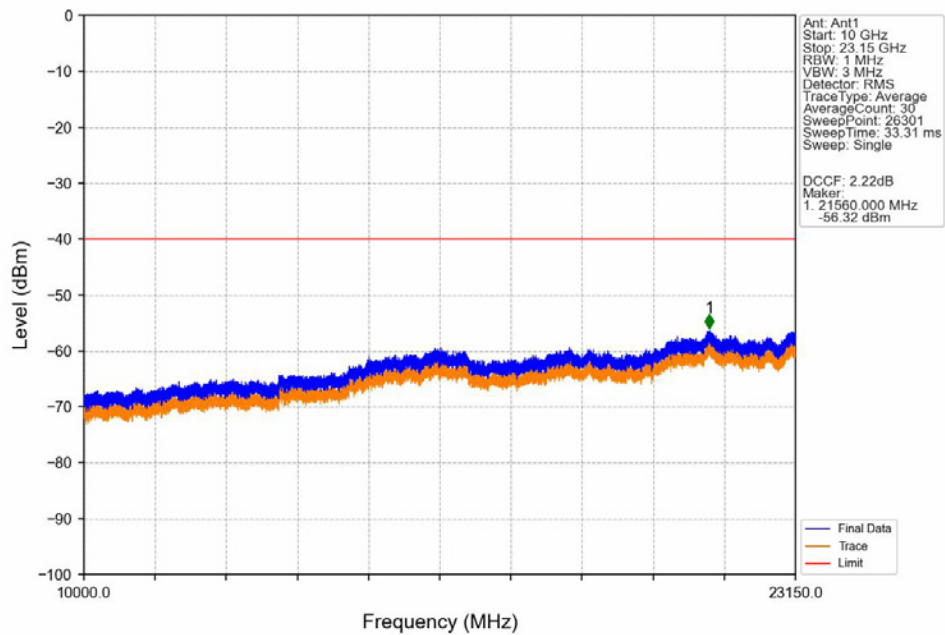


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.438	-47.80	-40	Pass
2288	2292	1	CHP	2	2290.714	-47.32	-37	Pass
2292	2296	1	CHP	3	2295.539	-46.29	-31	Pass
2296	2300	1	CHP	4	2299.998	-43.91	-25	Pass
2300	2304	1	CHP	5	2303.496	-35.11	-13	Pass
2304	2305	0.01	/	6	2305.000	-28.73	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.292	-60.08	-13	Pass
2316	2320	1	CHP	8	2316.578	-46.15	-13	Pass
2320	2324	1	CHP	9	2320.567	-46.92	-25	Pass
2324	2328	1	CHP	10	2324.013	-47.30	-31	Pass
2328	2337	1	CHP	11	2330.291	-47.56	-37	Pass
2337	2341	1	CHP	12	2337.808	-47.87	-31	Pass
2341	2345	1	CHP	13	2341.704	-47.81	-25	Pass

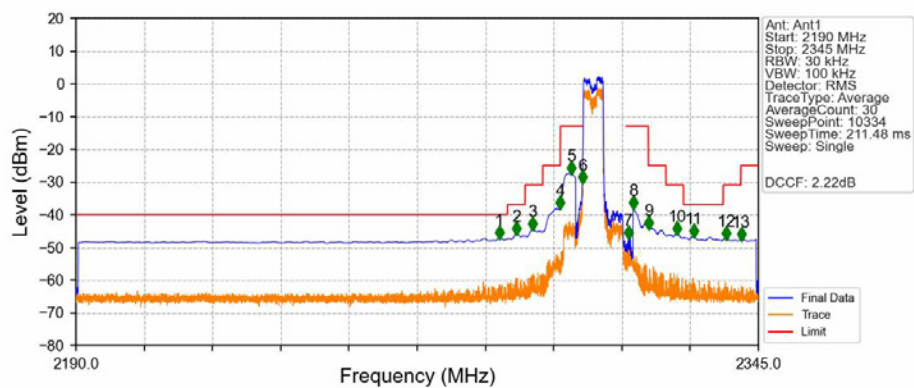
Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV



Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_1_0_NTNV

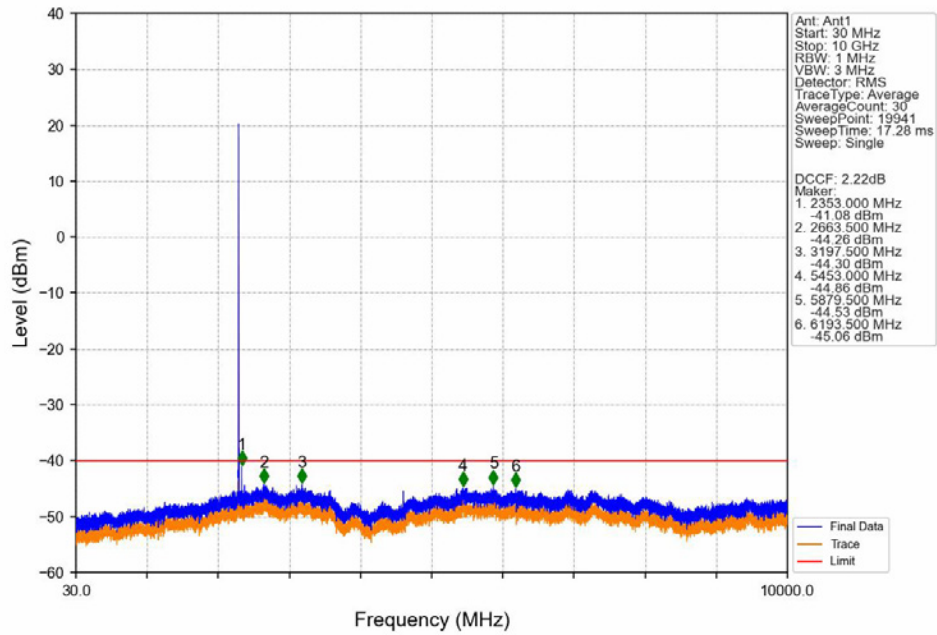


Band40a_5MHz_QPSK_LCH_2307.5MHz_RB_25_0_NTNV

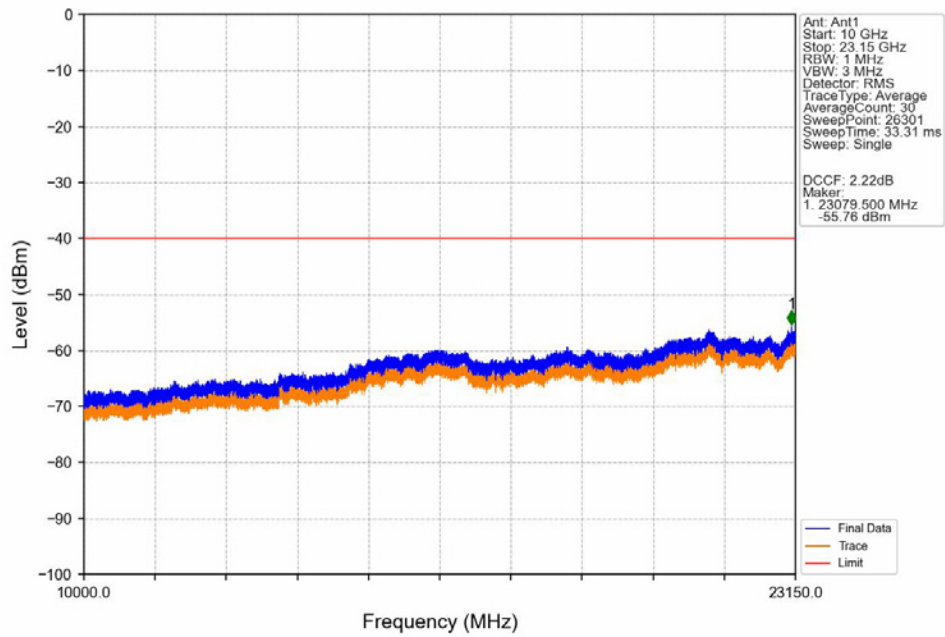


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2286.138	-46.97	-40	Pass
2288	2292	1	CHP	2	2290.038	-45.82	-37	Pass
2292	2296	1	CHP	3	2293.788	-44.35	-31	Pass
2296	2300	1	CHP	4	2299.999	-37.93	-25	Pass
2300	2304	1	CHP	5	2302.429	-27.21	-13	Pass
2304	2305	0.052	CHP	6	2304.994	-30.05	-13	Pass
2305	2315	0.052	CHP	/	/	/	/	/
2315	2316	0.052	CHP	7	2315.524	-46.92	-13	Pass
2316	2320	1	CHP	8	2316.514	-37.81	-13	Pass
2320	2324	1	CHP	9	2320.009	-43.99	-25	Pass
2324	2328	1	CHP	10	2326.489	-45.80	-31	Pass
2328	2337	1	CHP	11	2330.345	-46.56	-37	Pass
2337	2341	1	CHP	12	2337.650	-47.24	-31	Pass
2341	2345	1	CHP	13	2341.085	-47.51	-25	Pass

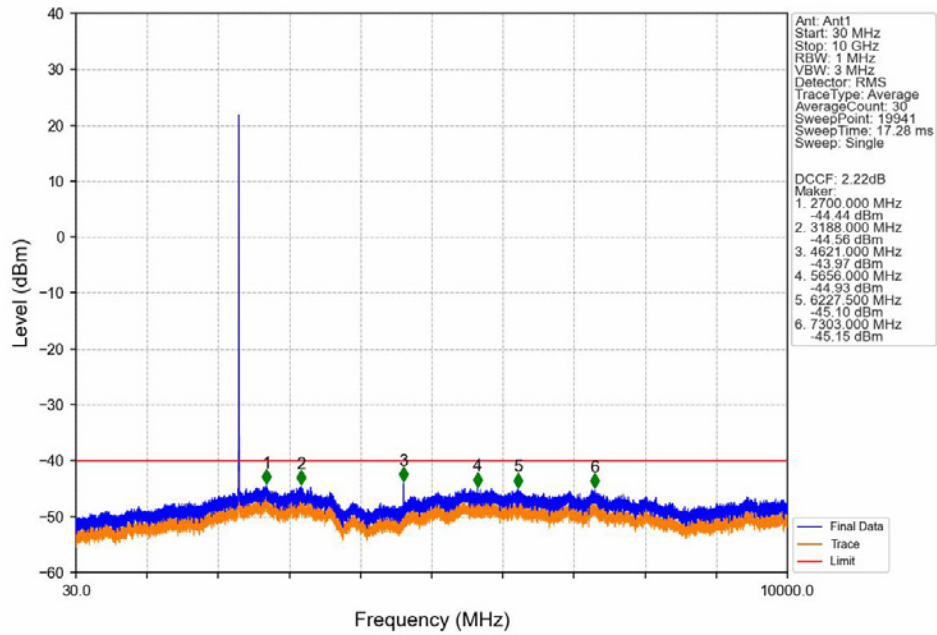
Band40a_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



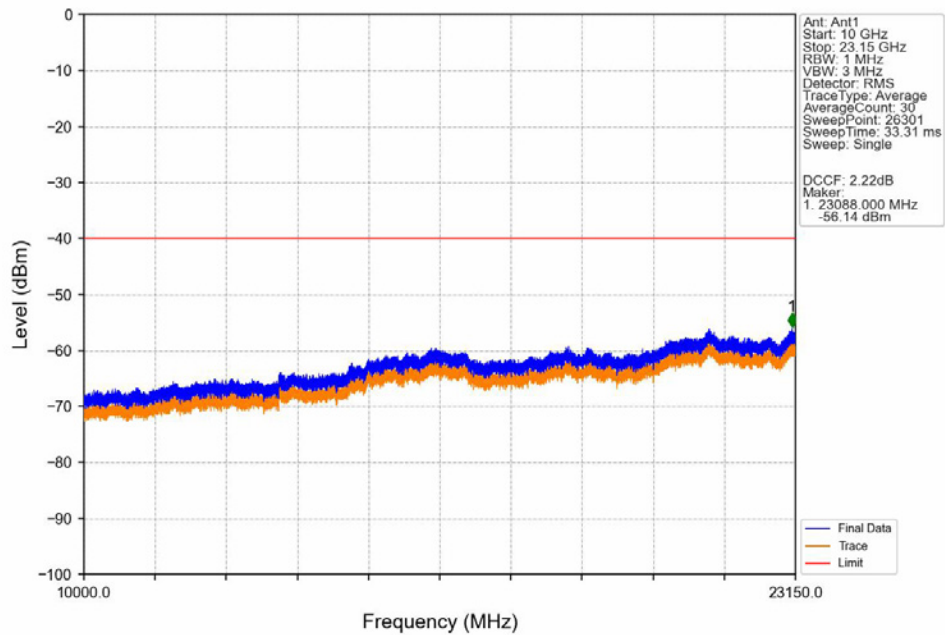
Band40a_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



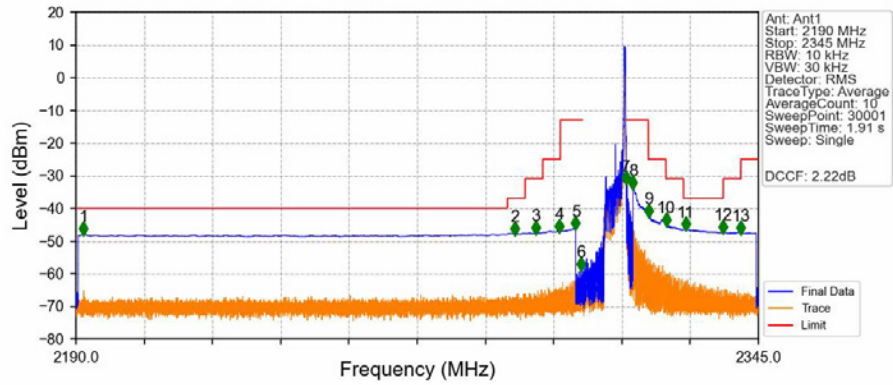
Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV

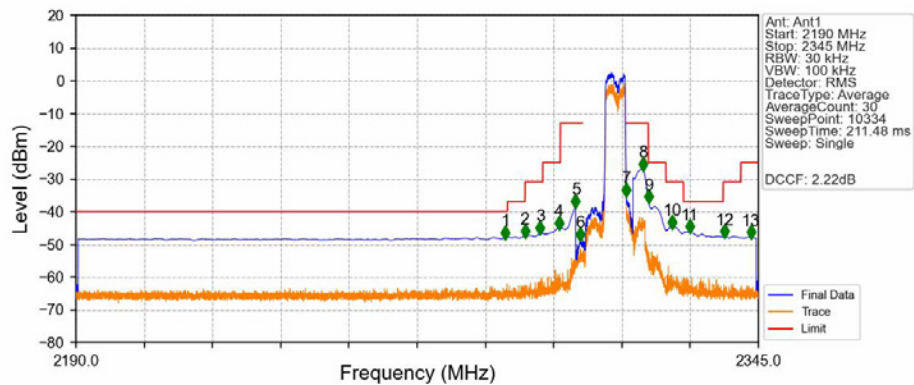


Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



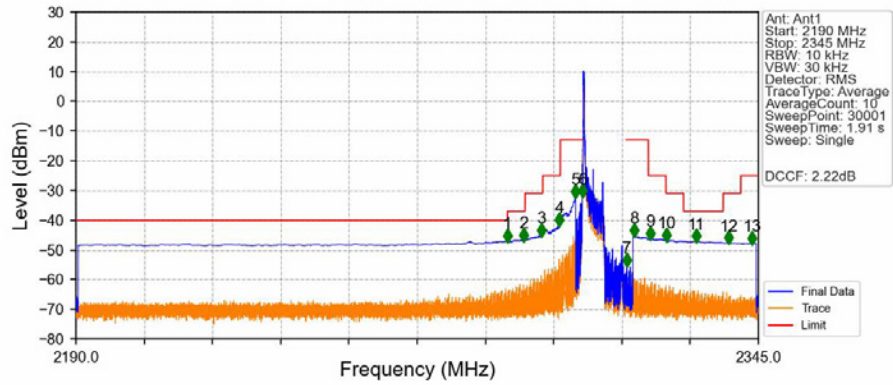
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2191.715	-47.78	-40	Pass
2288	2292	1	CHP	2	2289.691	-47.68	-37	Pass
2292	2296	1	CHP	3	2294.511	-47.44	-31	Pass
2296	2300	1	CHP	4	2299.792	-46.99	-25	Pass
2300	2304	1	CHP	5	2303.486	-46.13	-13	Pass
2304	2305	0.01	/	6	2304.617	-58.50	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.008	-32.31	-13	Pass
2316	2320	1	CHP	8	2316.501	-33.68	-13	Pass
2320	2324	1	CHP	9	2320.009	-42.24	-25	Pass
2324	2328	1	CHP	10	2324.023	-45.09	-31	Pass
2328	2337	1	CHP	11	2328.529	-46.35	-37	Pass
2337	2341	1	CHP	12	2337.017	-47.30	-31	Pass
2341	2345	1	CHP	13	2341.027	-47.46	-25	Pass

Band40a_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



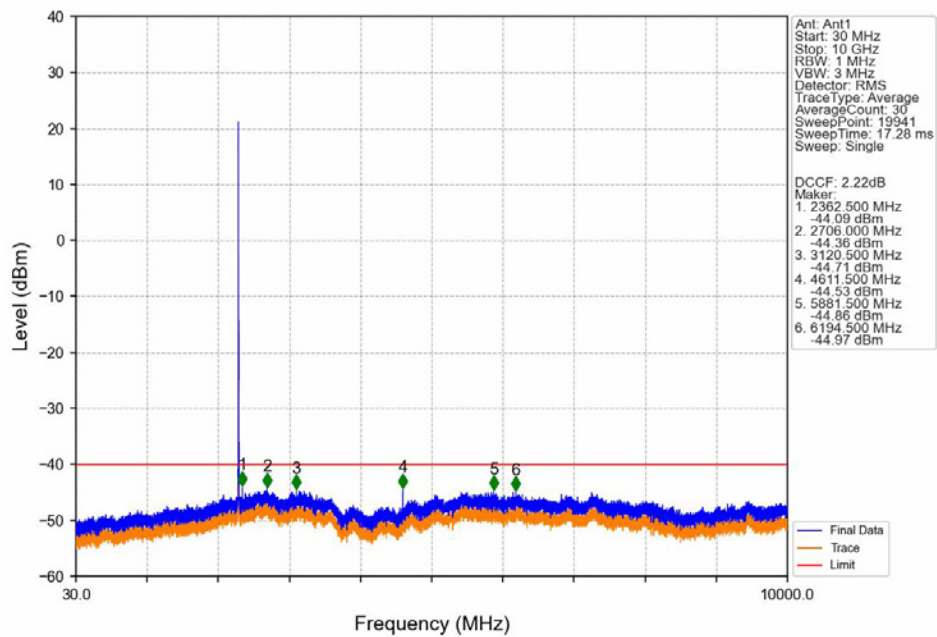
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.533	-47.88	-40	Pass
2288	2292	1	CHP	2	2291.973	-47.46	-37	Pass
2292	2296	1	CHP	3	2295.438	-46.57	-31	Pass
2296	2300	1	CHP	4	2299.744	-45.00	-25	Pass
2300	2304	1	CHP	5	2303.494	-38.41	-13	Pass
2304	2305	0.05	CHP	6	2304.439	-48.40	-13	Pass
2305	2315	0.05	CHP	/	/	/	/	/
2315	2316	0.05	CHP	7	2315.014	-34.83	-13	Pass
2316	2320	1	CHP	8	2318.719	-27.00	-13	Pass
2320	2324	1	CHP	9	2320.009	-37.00	-25	Pass
2324	2328	1	CHP	10	2325.409	-44.68	-31	Pass
2328	2337	1	CHP	11	2329.459	-46.13	-37	Pass
2337	2341	1	CHP	12	2337.380	-47.59	-31	Pass
2341	2345	1	CHP	13	2343.290	-47.82	-25	Pass

Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

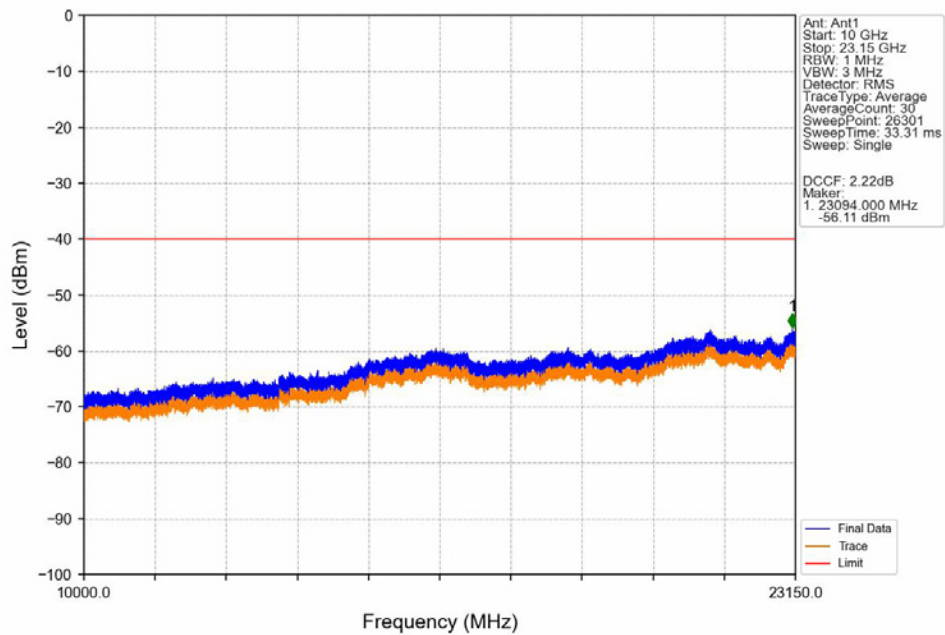


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.970	-46.96	-40	Pass
2288	2292	1	CHP	2	2291.737	-46.66	-37	Pass
2292	2296	1	CHP	3	2295.782	-45.08	-31	Pass
2296	2300	1	CHP	4	2299.833	-41.50	-25	Pass
2300	2304	1	CHP	5	2303.434	-32.00	-13	Pass
2304	2305	0.01	/	6	2304.989	-31.87	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.111	-55.02	-13	Pass
2316	2320	1	CHP	8	2316.842	-45.02	-13	Pass
2320	2324	1	CHP	9	2320.438	-46.08	-25	Pass
2324	2328	1	CHP	10	2324.127	-46.71	-31	Pass
2328	2337	1	CHP	11	2330.890	-47.07	-37	Pass
2337	2341	1	CHP	12	2338.247	-47.60	-31	Pass
2341	2345	1	CHP	13	2343.569	-47.82	-25	Pass

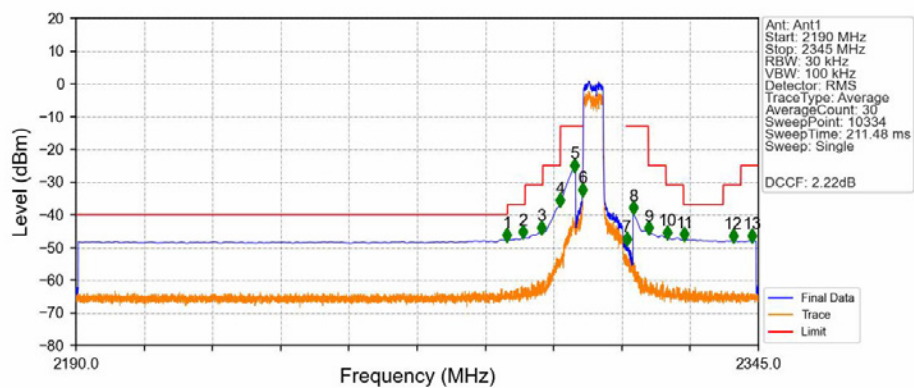
Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV

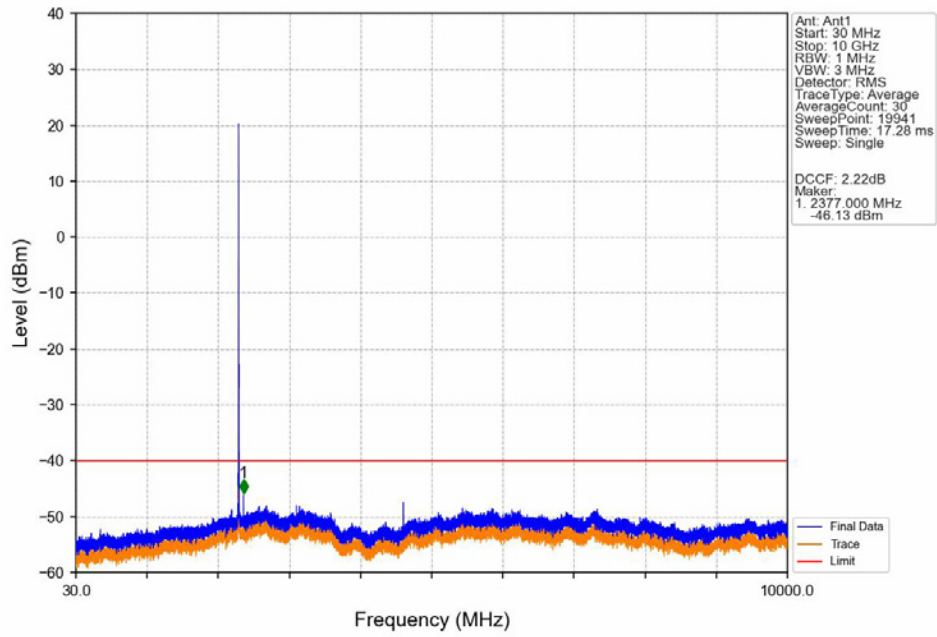


Band40a_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV

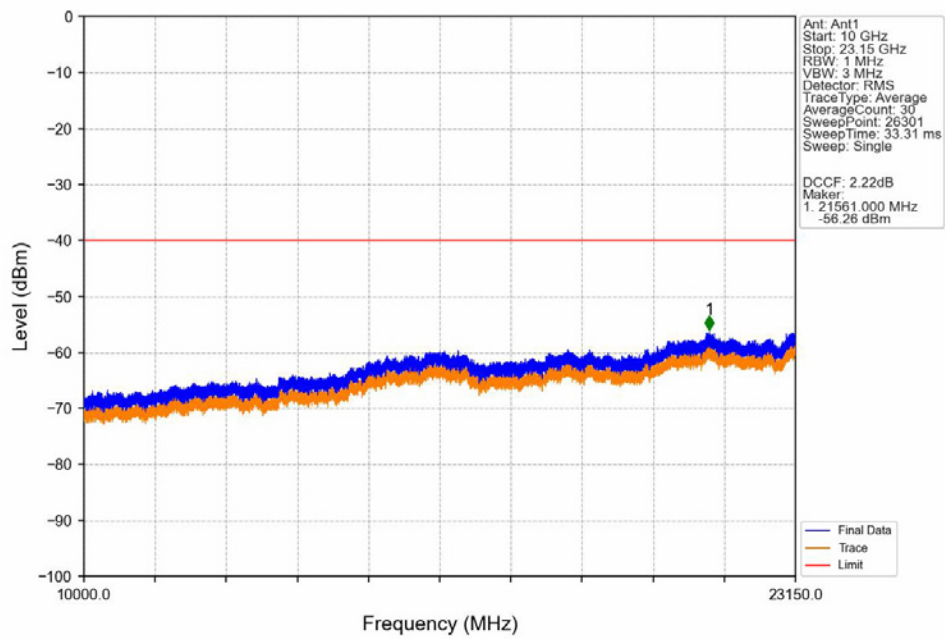


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.908	-47.68	-40	Pass
2288	2292	1	CHP	2	2291.553	-46.88	-37	Pass
2292	2296	1	CHP	3	2295.768	-45.41	-31	Pass
2296	2300	1	CHP	4	2299.999	-37.06	-25	Pass
2300	2304	1	CHP	5	2303.269	-26.45	-13	Pass
2304	2305	0.049	CHP	6	2304.994	-33.94	-13	Pass
2305	2315	0.049	CHP	/	/	/	/	/
2315	2316	0.049	CHP	7	2315.059	-48.89	-13	Pass
2316	2320	1	CHP	8	2316.514	-39.46	-13	Pass
2320	2324	1	CHP	9	2320.009	-45.60	-25	Pass
2324	2328	1	CHP	10	2324.374	-46.90	-31	Pass
2328	2337	1	CHP	11	2328.229	-47.61	-37	Pass
2337	2341	1	CHP	12	2339.255	-47.98	-31	Pass
2341	2345	1	CHP	13	2343.530	-47.96	-25	Pass

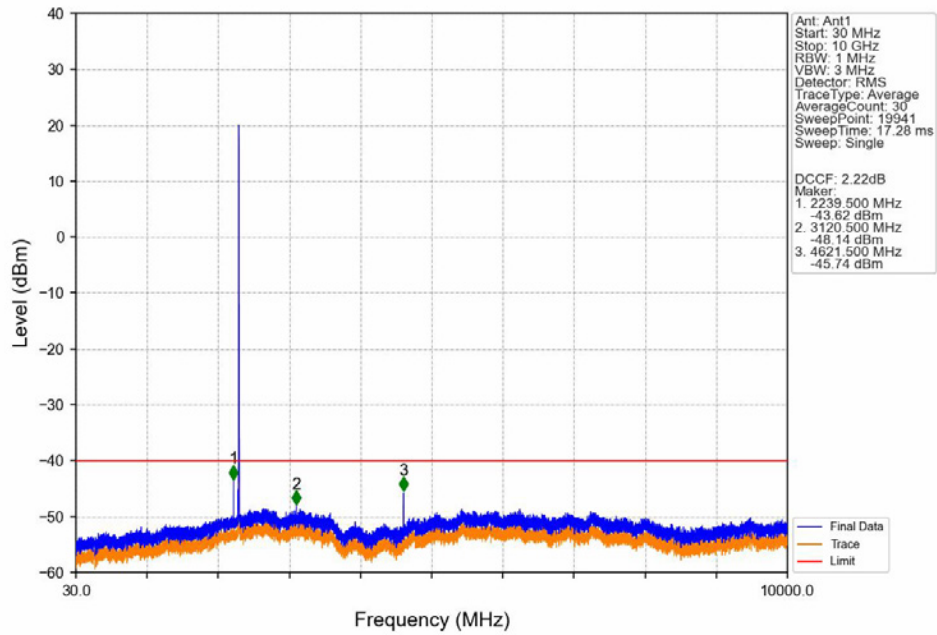
Band40a_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



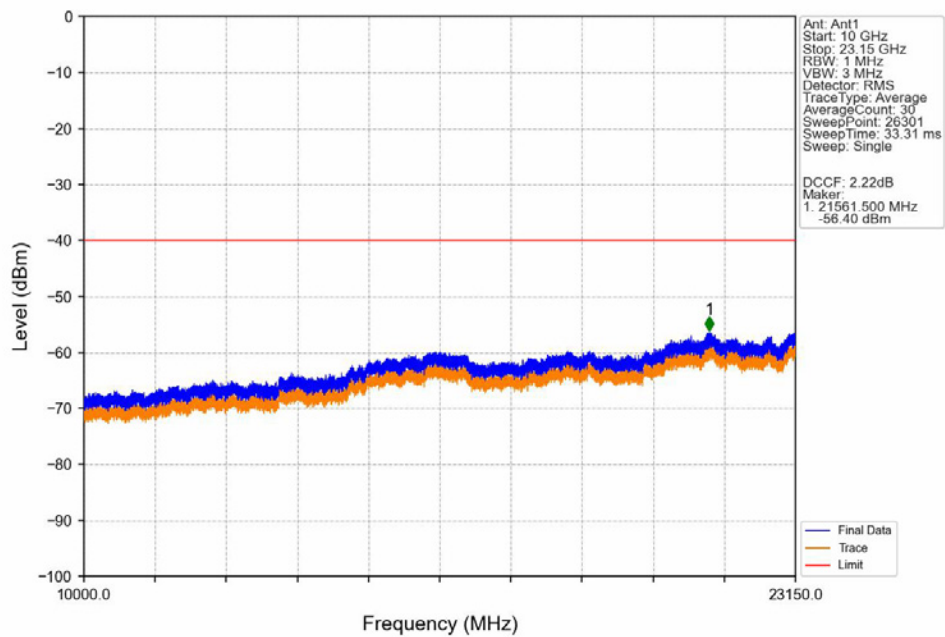
Band40a_5MHz_16QAM_MCH_2310MHz_RB_1_0_NTNV



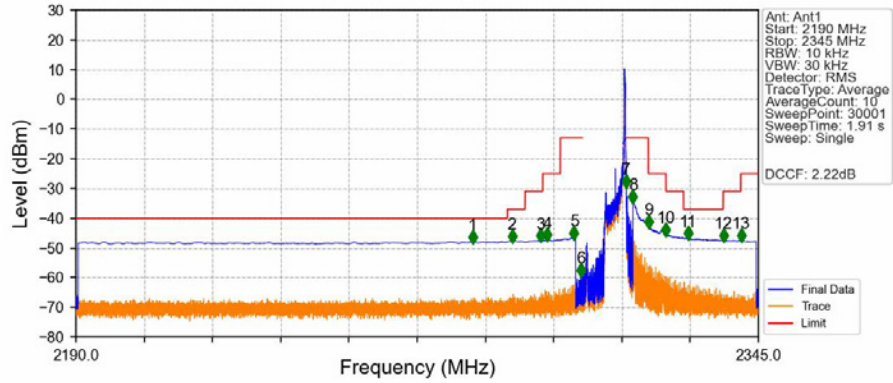
Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_1_0_NTNV

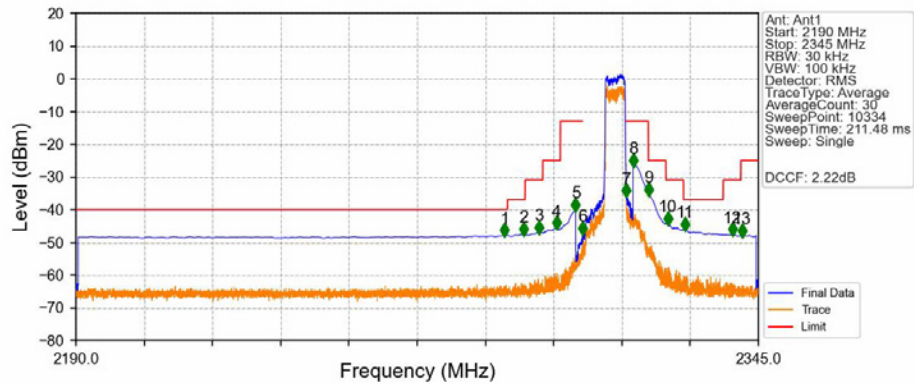


Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2280.153	-47.93	-40	Pass
2288	2292	1	CHP	2	2289.050	-47.70	-37	Pass
2292	2296	1	CHP	3	2295.519	-47.65	-31	Pass
2296	2300	1	CHP	4	2297.053	-47.31	-25	Pass
2300	2304	1	CHP	5	2303.119	-46.57	-13	Pass
2304	2305	0.01	/	6	2304.659	-59.13	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.002	-29.20	-13	Pass
2316	2320	1	CHP	8	2316.501	-34.37	-13	Pass
2320	2324	1	CHP	9	2320.050	-42.92	-25	Pass
2324	2328	1	CHP	10	2324.003	-45.65	-31	Pass
2328	2337	1	CHP	11	2329.035	-46.81	-37	Pass
2337	2341	1	CHP	12	2337.079	-47.54	-31	Pass
2341	2345	1	CHP	13	2341.099	-47.56	-25	Pass

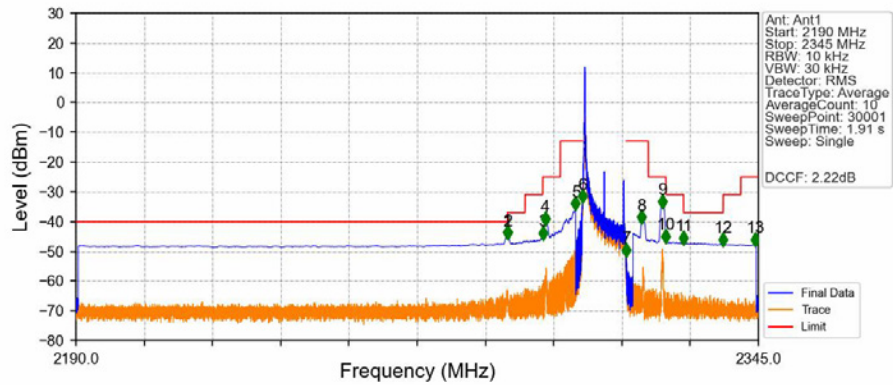
Band40a_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



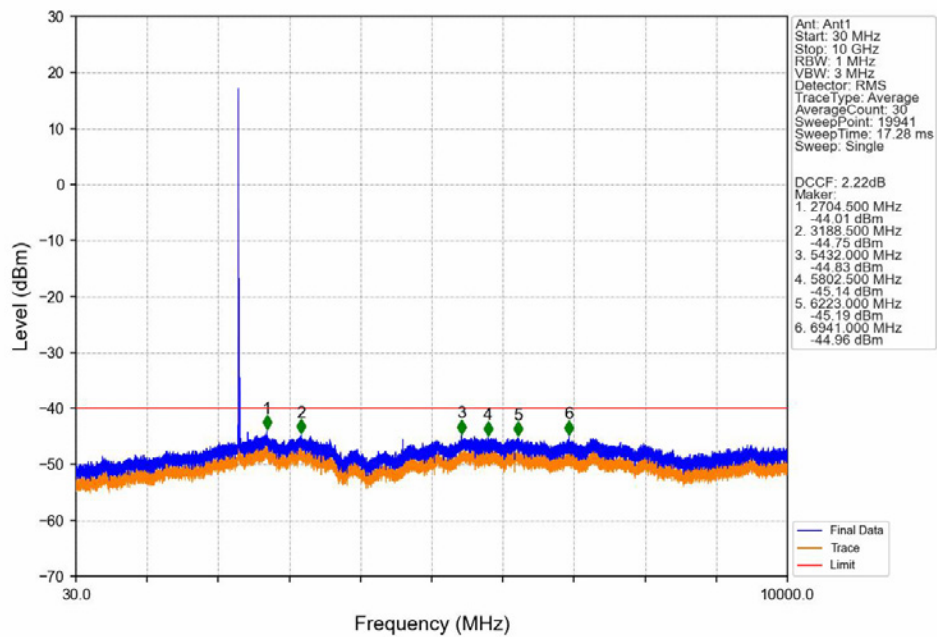
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.338	-47.85	-40	Pass
2288	2292	1	CHP	2	2291.643	-47.53	-37	Pass
2292	2296	1	CHP	3	2295.243	-46.99	-31	Pass
2296	2300	1	CHP	4	2299.174	-45.63	-25	Pass
2300	2304	1	CHP	5	2303.494	-40.10	-13	Pass
2304	2305	0.052	CHP	6	2304.994	-47.22	-13	Pass
2305	2315	0.052	CHP	/	/	/	/	/
2315	2316	0.052	CHP	7	2315.014	-35.71	-13	Pass
2316	2320	1	CHP	8	2316.514	-26.45	-13	Pass
2320	2324	1	CHP	9	2320.009	-35.38	-25	Pass
2324	2328	1	CHP	10	2324.404	-44.25	-31	Pass
2328	2337	1	CHP	11	2328.244	-46.00	-37	Pass
2337	2341	1	CHP	12	2339.060	-47.58	-31	Pass
2341	2345	1	CHP	13	2341.250	-47.90	-25	Pass

5.2.2 B40a_10MHz

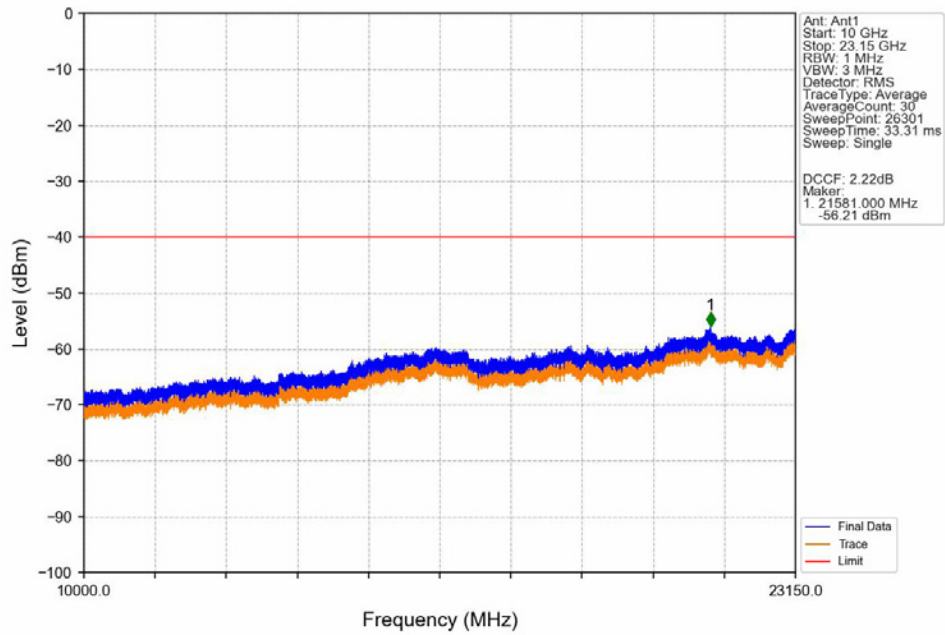
Band40a_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



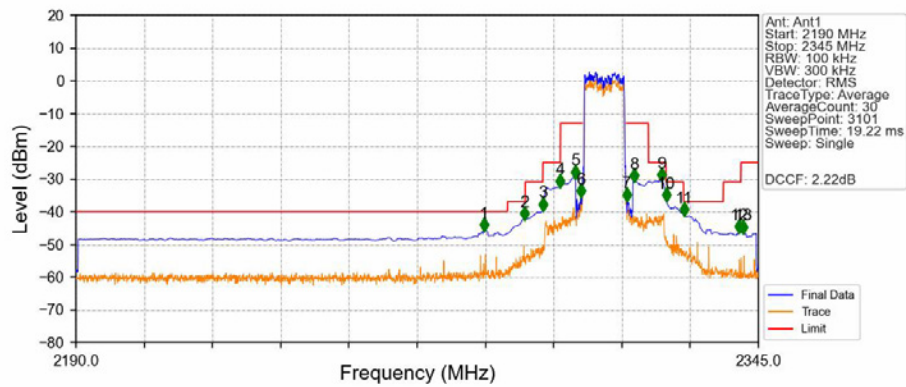
Band40a_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band40a_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

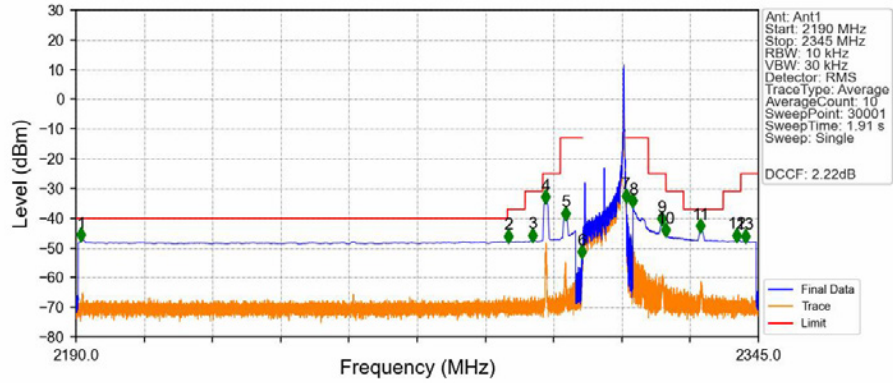


Band40a_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



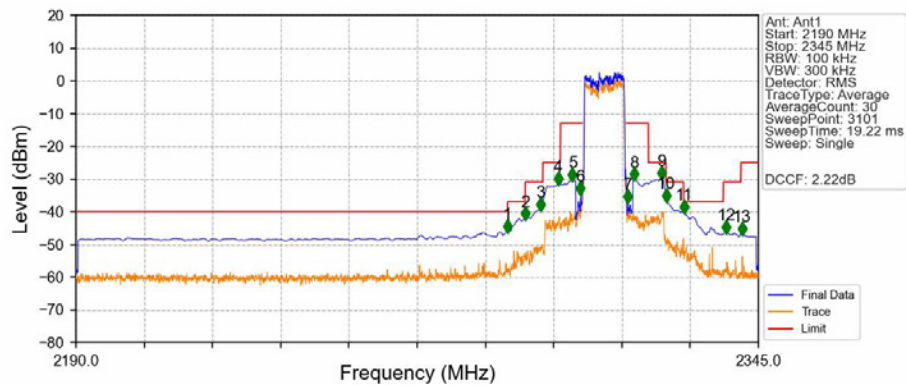
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2282.700	-45.61	-40	Pass
2288	2292	1	CHP	2	2291.950	-42.13	-37	Pass
2292	2296	1	CHP	3	2296.000	-39.37	-31	Pass
2296	2300	1	CHP	4	2300.000	-32.22	-25	Pass
2300	2304	1	CHP	5	2303.450	-29.36	-13	Pass
2304	2305	0.1	/	6	2304.700	-35.24	-13	Pass
2305	2315	0.1	/	/	/	/	/	/
2315	2316	0.1	/	7	2315.050	-36.36	-13	Pass
2316	2320	1	CHP	8	2316.850	-30.57	-13	Pass
2320	2324	1	CHP	9	2323.000	-30.28	-25	Pass
2324	2328	1	CHP	10	2324.050	-36.49	-31	Pass
2328	2337	1	CHP	11	2328.150	-40.96	-37	Pass
2337	2341	1	CHP	12	2340.650	-46.12	-31	Pass
2341	2345	1	CHP	13	2341.500	-46.15	-25	Pass

Band40a_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



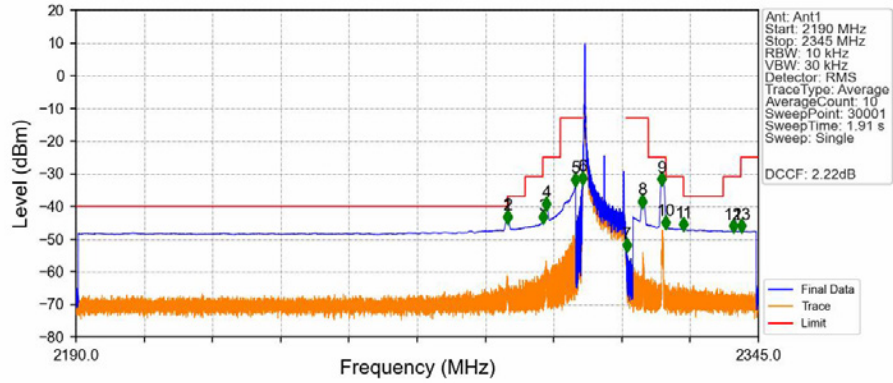
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2191.137	-47.35	-40	Pass
2288	2292	1	CHP	2	2288.218	-47.74	-37	Pass
2292	2296	1	CHP	3	2293.783	-47.48	-31	Pass
2296	2300	1	CHP	4	2296.723	-34.57	-25	Pass
2300	2304	1	CHP	5	2301.213	-40.17	-13	Pass
2304	2305	0.01	/	6	2304.907	-53.01	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.002	-34.17	-13	Pass
2316	2320	1	CHP	8	2316.501	-35.97	-13	Pass
2320	2324	1	CHP	9	2322.969	-41.88	-25	Pass
2324	2328	1	CHP	10	2324.003	-45.74	-31	Pass
2328	2337	1	CHP	11	2331.877	-44.32	-37	Pass
2337	2341	1	CHP	12	2340.071	-47.46	-31	Pass
2341	2345	1	CHP	13	2342.003	-47.77	-25	Pass

Band40a_10MHz_QPSK_HCH_2310MHz_RB_50_0_NTNV

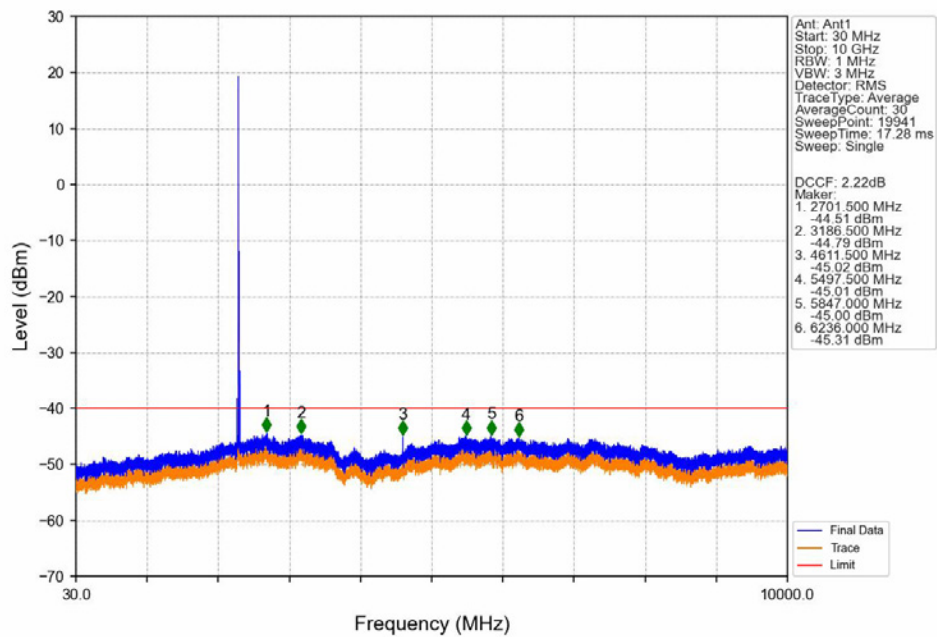


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2288.000	-46.07	-40	Pass
2288	2292	1	CHP	2	2292.000	-42.17	-37	Pass
2292	2296	1	CHP	3	2295.600	-39.32	-31	Pass
2296	2300	1	CHP	4	2299.550	-31.42	-25	Pass
2300	2304	1	CHP	5	2302.750	-30.26	-13	Pass
2304	2305	0.1	/	6	2304.600	-34.34	-13	Pass
2305	2315	0.1	/	/	/	/	/	/
2315	2316	0.1	/	7	2315.400	-36.93	-13	Pass
2316	2320	1	CHP	8	2316.850	-30.04	-13	Pass
2320	2324	1	CHP	9	2323.000	-29.71	-25	Pass
2324	2328	1	CHP	10	2324.050	-36.65	-31	Pass
2328	2337	1	CHP	11	2328.150	-40.15	-37	Pass
2337	2341	1	CHP	12	2337.700	-46.16	-31	Pass
2341	2345	1	CHP	13	2341.300	-46.71	-25	Pass

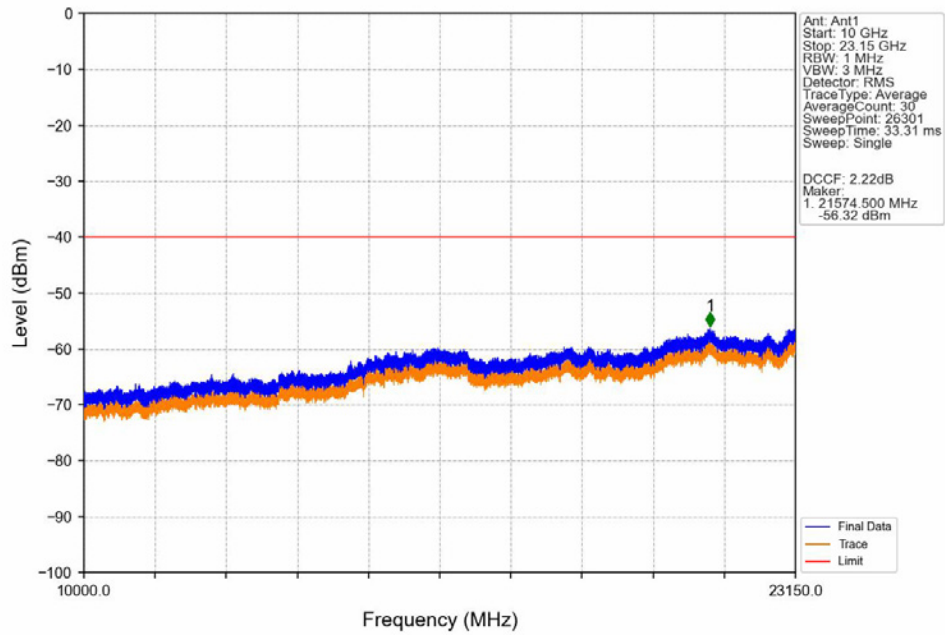
Band40a_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



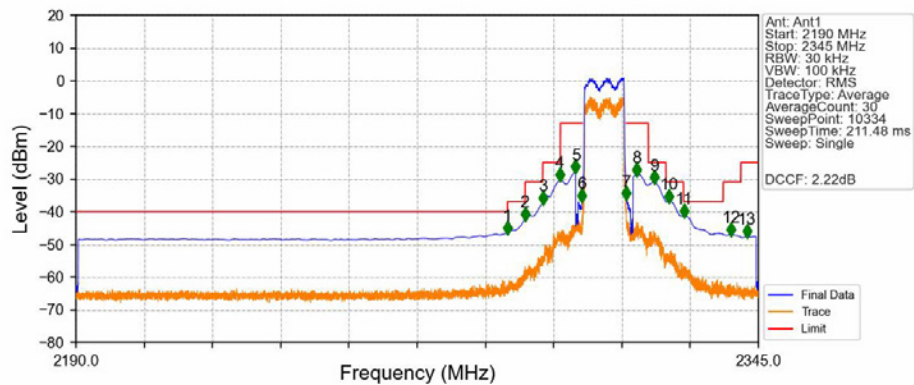
Band40a_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



Band40a_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV

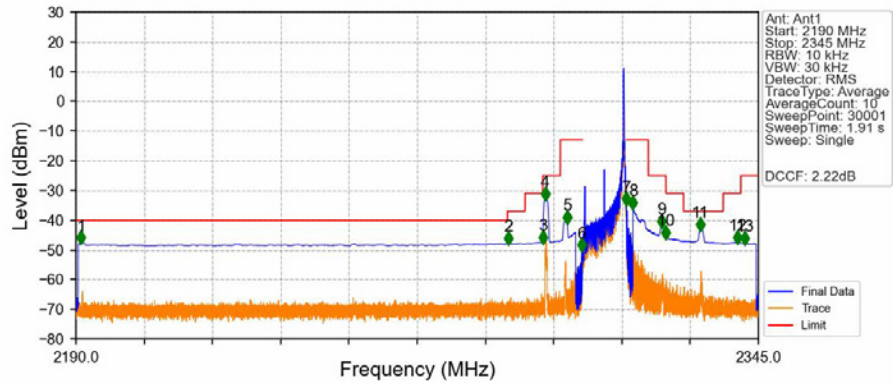


Band40a_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV

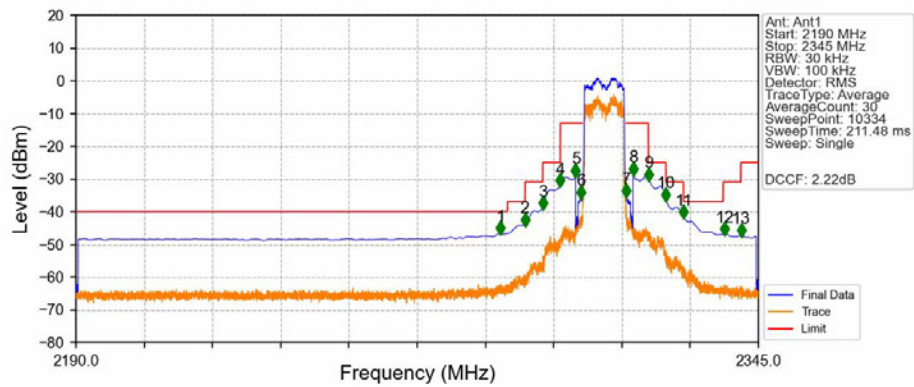


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.998	-46.43	-40	Pass
2288	2292	1	CHP	2	2291.988	-42.32	-37	Pass
2292	2296	1	CHP	3	2295.993	-37.36	-31	Pass
2296	2300	1	CHP	4	2299.909	-30.23	-25	Pass
2300	2304	1	CHP	5	2303.494	-27.86	-13	Pass
2304	2305	0.097	CHP	6	2304.964	-36.62	-13	Pass
2305	2315	0.097	CHP	/	/	/	/	/
2315	2316	0.097	CHP	7	2315.014	-36.02	-13	Pass
2316	2320	1	CHP	8	2317.309	-28.63	-13	Pass
2320	2324	1	CHP	9	2321.419	-31.04	-25	Pass
2324	2328	1	CHP	10	2324.674	-36.87	-31	Pass
2328	2337	1	CHP	11	2328.079	-41.30	-37	Pass
2337	2341	1	CHP	12	2338.850	-47.04	-31	Pass
2341	2345	1	CHP	13	2342.345	-47.54	-25	Pass

Band40a_10MHz_16QAM_HCH_2310MHz_RB_1_49_NTNV



Band40a_10MHz_16QAM_HCH_2310MHz_RB_50_0_NTNV



6. Radiated Spurious Emission

6.1 Test Result

LTE TDD Band 40a_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
4615	-45.42	8.83	3.00	9.76	-44.49	-25.00	19.49	H
6922.5	-52.9	10.28	3.00	11.15	-52.03	-25.00	27.03	H
4615	-42.7	8.83	3.00	9.76	-41.77	-25.00	16.77	V
6922.5	-53.77	10.28	3.00	11.15	-52.90	-25.00	27.9	V

LTE TDD Band 40a_Channel Bandwidth 5MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4620	-43.99	8.87	3.00	9.81	-43.05	-25.00	18.05	H
6930	-53.6	10.34	3.00	11.18	-52.76	-25.00	27.76	H
4620	-46.6	8.95	3.00	9.81	-45.74	-25.00	20.74	V
6930	-52.66	10.42	3.00	11.18	-51.90	-25.00	26.9	V

LTE TDD Band 40a_Channel Bandwidth 5MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625	-47.15	8.93	3.00	9.68	-46.40	-25.00	21.4	H
6937.5	-53.19	10.41	3.00	11.23	-52.37	-25.00	27.37	H
4625	-41.45	8.98	3.00	9.68	-40.75	-25.00	15.75	V
6937.5	-53.77	10.57	3.00	11.23	-53.11	-25.00	28.11	V

LTE TDD Band 40a_Channel Bandwidth 10MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4620	-42.28	8.87	3.00	9.81	-41.34	-25.00	16.34	H
6930	-46.53	10.34	3.00	11.18	-45.69	-25.00	20.69	H
4620	-44.77	8.95	3.00	9.81	-43.91	-25.00	18.91	V
6930	-48.85	10.42	3.00	11.18	-48.09	-25.00	23.09	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.