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VERITAS**

Test Report No.: W7L-P20210616-3RF02

FCC TEST REPORT (PART 24)

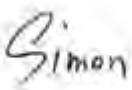
Applicant:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA

Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
HW version:	P4.1
SW version:	MODEMSA515M_01.15.62
Registration No:	525120
Designation No:	CN1171
Date of tests:	Jun. 16, 2021 ~ Nov. 03, 2021

The tests have been carried out according to the requirements of the following standard:

☒ **FCC PART 24, Subpart E** ☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to comply with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Nov. 04, 2021	Date: Nov. 04, 2021

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TABLE OF CONTENTS

1. FREQUENCY STABILITY	5
1.1 PCS1900	5
1.1.1 TEST RESULT	5
1.2 WCDMA BAND2.....	5
1.2.1 TEST RESULT	5
1.3 LTE BAND 2	6
1.3.1 TEST RESULT	6
1.4 LTE BAND 25	9
1.4.1 TEST RESULT	9
2. 99% & 26DB BANDWIDTH	13
2.1 PCS1900_OBW.....	13
2.1.1 TEST RESULT	13
2.1.2 TEST GRAPH.....	14
2.2 PCS1900 26DB	17
2.2.1 TEST RESULT	17
2.2.2 TEST GRAPH.....	18
2.3 WCDMA BAND2 OBW	21
2.3.1 TEST RESULT	21
2.3.2 TEST GRAPH.....	22
2.4 WCDMA BAND2 26DB.....	24
2.4.1 TEST RESULT	24
2.4.2 TEST GRAPH.....	25
2.5 LTE BAND 2 OBW	27



2.5.1 TEST RESULT	27
2.5.2 TEST GRAPH.....	28
2.6 LTE BAND 2 26DB	58
2.6.1 TEST RESULT	58
2.6.2 TEST GRAPH.....	59
2.7 LTE BAND 25 OBW	89
2.7.1 TEST RESULT	89
2.7.2 TEST GRAPH.....	90
2.8 LTE BAND 25	120
2.8.1 TEST RESULT	120
2.8.2 TEST GRAPH.....	121
3. PEAK-AVERAGE RATIO	151
3.1 PCS1900	151
3.1.1 TEST RESULT	151
3.1.2 TEST GRAPH.....	152
3.2 WCDMA BAND2.....	155
3.2.1 TEST RESULT	155
3.2.2 TEST GRAPH.....	156
3.3 LTE BAND 2	158
3.3.1 TEST RESULT	158
3.3.2 TEST GRAPH.....	159
3.4 LTE BAND 25	189
3.4.1 TEST RESULT	189
3.4.2 TEST GRAPH.....	190
4. SPURIOUS EMISSION	220
4.1 PCS1900	220



4.1.1 TEST RESULT	220
4.1.2 TEST GRAPH.....	221
4.2 WCDMA BAND2.....	226
4.2.1 TEST RESULT	226
4.2.2 TEST GRAPH.....	227
4.3 LTE BAND 2	230
4.3.1 TEST RESULT	230
4.3.2 TEST GRAPH.....	233
4.4 LTE BAND 25	298
4.4.1 TEST RESULT	298
4.4.2 TEST GRAPH.....	301



1. Frequency Stability

1.1 PCS1900

1.1.1 Test Result

Band: PCS1900										
Network	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
GPRS	20	3.6	22.150	28.770	17.140	0.04.00	0.0153	0.0090	-2.5 to 2.5	Pass
		4.0	18.530	23.500	17.950	0.0100	0.04.05	0.0094	-2.5 to 2.5	Pass
		4.4	15.660	26.760	20.400	0.0085	0.0142	0.0107	-2.5 to 2.5	Pass
	-10	4.0	29.4.00	30.830	23.020	0.0157	0.0164	0.04.01	-2.5 to 2.5	Pass
	0	4.0	31.450	24.020	14.430	0.0170	0.04.08	0.0076	-2.5 to 2.5	Pass
	10	4.0	19.150	23.920	18.110	0.0104	0.04.07	0.0095	-2.5 to 2.5	Pass
	30	4.0	19.340	26.730	18.270	0.0105	0.0142	0.0096	-2.5 to 2.5	Pass
	40	4.0	23.4.00	22.470	15.170	0.04.05	0.04.00	0.0079	-2.5 to 2.5	Pass
	50	4.0	29.280	31.320	10.690	0.0158	0.0167	0.0056	-2.5 to 2.5	Pass
EGPRS	20	3.6	29.060	34.580	17.500	0.0157	0.0184	0.0092	-2.5 to 2.5	Pass
		4.0	28.930	21.700	21.110	0.0156	0.0115	0.0111	-2.5 to 2.5	Pass
		4.4	27.480	22.790	15.460	0.0149	0.04.01	0.0081	-2.5 to 2.5	Pass
	-10	4.0	28.510	31.510	22.600	0.0154	0.0168	0.0118	-2.5 to 2.5	Pass
	0	4.0	29.480	23.760	19.240	0.0159	0.04.06	0.0101	-2.5 to 2.5	Pass
	10	4.0	29.900	27.570	18.440	0.0162	0.0147	0.0097	-2.5 to 2.5	Pass
	30	4.0	23.280	26.640	21.860	0.04.06	0.0142	0.0114	-2.5 to 2.5	Pass
	40	4.0	23.050	24.800	26.090	0.04.05	0.0132	0.0137	-2.5 to 2.5	Pass
	50	4.0	24.890	25.020	26.890	0.0135	0.0133	0.0141	-2.5 to 2.5	Pass

1.2 WCDMA Band2

1.2.1 Test Result

Band: 2										
Network	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
RMC	20	3.6	13.360	4.0.920	10.450	0.0072	0.0069	0.0055	-2.5 to 2.5	Pass
		4.0	13.550	11.320	9.390	0.0073	0.0060	0.0049	-2.5 to 2.5	Pass
		4.4	13.600	11.4.00	9.540	0.0073	0.0059	0.0050	-2.5 to 2.5	Pass
	-10	4.0	4.0.920	11.870	9.990	0.0070	0.0063	0.0052	-2.5 to 2.5	Pass
	0	4.0	13.950	11.470	9.310	0.0075	0.0061	0.0049	-2.5 to 2.5	Pass
	10	4.0	13.410	10.610	9.590	0.0072	0.0056	0.0050	-2.5 to 2.5	Pass
	30	4.0	13.4.00	11.290	9.940	0.0071	0.0060	0.0052	-2.5 to 2.5	Pass
	40	4.0	14.080	11.580	10.450	0.0076	0.0062	0.0055	-2.5 to 2.5	Pass
	50	4.0	13.530	10.810	10.060	0.0073	0.0058	0.0053	-2.5 to 2.5	Pass



1.3 LTE Band 2

1.3.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	6	0	20	3.6	9.510	15.710	-23.050	0.0051	0.0084	-0.04.01	-2.5 to 2.5	Pass
				4.0	10.170	4.0.700	-16.990	0.0055	0.0068	-0.0089	-2.5 to 2.5	Pass
				4.4	6.820	4.450	-16.510	0.0037	0.0024	-0.0086	-2.5 to 2.5	Pass
			-10	4.0	4.710	11.500	-22.770	0.0025	0.0061	-0.0119	-2.5 to 2.5	Pass
			0	4.0	0.540	10.800	-19.250	0.0003	0.0057	-0.0101	-2.5 to 2.5	Pass
			10	4.0	8.650	4.690	-17.280	0.0047	0.0025	-0.0091	-2.5 to 2.5	Pass
			30	4.0	1.900	2.570	-4.0.200	0.0010	0.0014	-0.0064	-2.5 to 2.5	Pass
			40	4.0	-2.790	6.170	-7.680	-0.0015	0.0033	-0.0040	-2.5 to 2.5	Pass
50	4.0	-5.620	-4.480	-8.330	-0.0030	-0.0024	-0.0044	-2.5 to 2.5	Pass			
16QAM	6	0	20	3.6	-6.490	6.340	5.390	-0.0035	0.0034	0.0028	-2.5 to 2.5	Pass
				4.0	3.020	-2.490	-7.520	0.0016	-0.0013	-0.0039	-2.5 to 2.5	Pass
				4.4	-4.280	0.920	1.040	-0.0023	0.0005	0.0005	-2.5 to 2.5	Pass
			-10	4.0	-2.330	0.300	-1.140	-0.0013	0.0002	-0.0006	-2.5 to 2.5	Pass
			0	4.0	5.750	-0.840	2.050	0.0031	-0.0004	0.0011	-2.5 to 2.5	Pass
			10	4.0	2.990	0.860	-5.920	0.0016	0.0005	-0.0031	-2.5 to 2.5	Pass
			30	4.0	-0.240	-0.410	-0.800	-0.0001	-0.0002	-0.0004	-2.5 to 2.5	Pass
			40	4.0	0.410	-3.480	-6.510	0.0002	-0.0019	-0.0034	-2.5 to 2.5	Pass
50	4.0	-5.940	2.290	3.200	-0.0032	0.004.0	0.0017	-2.5 to 2.5	Pass			
64QAM	6	0	20	3.6	19.500	10.030	7.420	0.0105	0.0053	0.0039	-2.5 to 2.5	Pass
				4.0	15.360	17.190	11.010	0.0083	0.0091	0.0058	-2.5 to 2.5	Pass
				4.4	13.250	10.690	17.840	0.0072	0.0057	0.0093	-2.5 to 2.5	Pass
			-10	4.0	8.610	15.710	10.660	0.0047	0.0084	0.0056	-2.5 to 2.5	Pass
			0	4.0	9.080	7.610	11.960	0.0049	0.0040	0.0063	-2.5 to 2.5	Pass
			10	4.0	13.350	16.920	17.580	0.0072	0.0090	0.0092	-2.5 to 2.5	Pass
			30	4.0	7.280	8.930	10.260	0.0039	0.0048	0.0054	-2.5 to 2.5	Pass
			40	4.0	10.440	5.310	11.4.00	0.0056	0.0028	0.0058	-2.5 to 2.5	Pass
50	4.0	11.660	14.550	4.0.190	0.0063	0.0077	0.0064	-2.5 to 2.5	Pass			
Band: 2 / Bandwidth: 3MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	15	0	20	3.6	-5.460	-1.360	2.300	-0.0029	-0.0007	0.004.0	-2.5 to 2.5	Pass
				4.0	-9.110	-1.590	2.450	-0.0049	-0.0008	0.0013	-2.5 to 2.5	Pass
				4.4	-6.780	4.880	3.650	-0.0037	0.0026	0.0019	-2.5 to 2.5	Pass
			-10	4.0	4.980	-0.290	-1.660	0.0027	-0.0002	-0.0009	-2.5 to 2.5	Pass
			0	4.0	3.230	1.340	-6.840	0.0017	0.0007	-0.0036	-2.5 to 2.5	Pass
			10	4.0	-2.900	5.020	-5.750	-0.0016	0.0027	-0.0030	-2.5 to 2.5	Pass
			30	4.0	1.140	-2.930	-1.690	0.0006	-0.0016	-0.0009	-2.5 to 2.5	Pass
			40	4.0	-3.260	5.350	-1.500	-0.0018	0.0028	-0.0008	-2.5 to 2.5	Pass
50	4.0	-7.380	2.350	4.410	-0.0040	0.0013	0.0023	-2.5 to 2.5	Pass			
16QAM	15	0	20	3.6	0.490	-5.620	-5.190	0.0003	-0.0030	-0.0027	-2.5 to 2.5	Pass
				4.0	-7.930	-5.140	-4.660	-0.0043	-0.0027	-0.0024	-2.5 to 2.5	Pass
				4.4	-1.970	5.250	-7.110	-0.0011	0.0028	-0.0037	-2.5 to 2.5	Pass
			-10	4.0	-3.560	-7.880	0.060	-0.0019	-0.0042	0.0000	-2.5 to 2.5	Pass
			0	4.0	1.750	-3.680	1.820	0.0009	-0.0020	0.0010	-2.5 to 2.5	Pass



64QAM	15	0	10	4.0	0.630	0.270	4.920	0.0003	0.0001	0.0026	-2.5 to 2.5	Pass
			30	4.0	-8.050	-0.990	1.850	-0.0043	-0.0005	0.0010	-2.5 to 2.5	Pass
			40	4.0	-3.290	2.820	-6.290	-0.0018	0.0015	-0.0033	-2.5 to 2.5	Pass
			50	4.0	-3.520	3.360	2.550	-0.0019	0.0018	0.0013	-2.5 to 2.5	Pass
			20	3.6	5.950	0.970	-2.790	0.0032	0.0005	-0.0015	-2.5 to 2.5	Pass
				4.0	6.070	6.570	-3.550	0.0033	0.0035	-0.0019	-2.5 to 2.5	Pass
				4.4	-2.350	-4.290	-5.610	-0.0013	-0.0023	-0.0029	-2.5 to 2.5	Pass
			-10	4.0	-0.240	0.970	-0.210	-0.0001	0.0005	-0.0001	-2.5 to 2.5	Pass
			0	4.0	1.360	-1.140	6.970	0.0007	-0.0006	0.0037	-2.5 to 2.5	Pass
			10	4.0	-4.210	-1.240	-0.060	-0.0023	-0.0007	0.0000	-2.5 to 2.5	Pass
			30	4.0	-4.320	4.810	-5.060	-0.0023	0.0026	-0.0027	-2.5 to 2.5	Pass
			40	4.0	-2.190	4.730	6.190	-0.004.0	0.0025	0.0032	-2.5 to 2.5	Pass
			50	4.0	-0.940	-3.920	3.520	-0.0005	-0.0021	0.0018	-2.5 to 2.5	Pass

Band: 2 / Bandwidth: 5MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	25	0	20	3.6	4.890	-6.900	-7.420	0.0026	-0.0037	-0.0039	-2.5 to 2.5	Pass
				4.0	-7.140	-6.670	4.890	-0.0039	-0.0035	0.0026	-2.5 to 2.5	Pass
				4.4	-1.170	-7.380	-3.000	-0.0006	-0.0039	-0.0016	-2.5 to 2.5	Pass
			-10	4.0	-8.980	0.820	-0.840	-0.0048	0.0004	-0.0004	-2.5 to 2.5	Pass
			0	4.0	2.790	4.780	1.240	0.0015	0.0025	0.0007	-2.5 to 2.5	Pass
			10	4.0	-6.680	1.960	2.550	-0.0036	0.0010	0.0013	-2.5 to 2.5	Pass
			30	4.0	-2.200	3.560	-2.200	-0.004.0	0.0019	-0.004.0	-2.5 to 2.5	Pass
			40	4.0	-3.280	4.210	-0.110	-0.0018	0.0022	-0.0001	-2.5 to 2.5	Pass
50	4.0	0.620	4.660	-4.050	0.0003	0.0025	-0.0021	-2.5 to 2.5	Pass			
16QAM	25	0	20	3.6	-1.500	2.170	-0.030	-0.0008	0.004.0	0.0000	-2.5 to 2.5	Pass
				4.0	-1.820	5.180	-0.090	-0.0010	0.0028	0.0000	-2.5 to 2.5	Pass
				4.4	-2.090	2.900	2.160	-0.0011	0.0015	0.0011	-2.5 to 2.5	Pass
			-10	4.0	-6.210	8.140	7.400	-0.0034	0.0043	0.0039	-2.5 to 2.5	Pass
			0	4.0	-0.510	-7.150	-6.010	-0.0003	-0.0038	-0.0032	-2.5 to 2.5	Pass
			10	4.0	-0.130	-6.900	-8.850	-0.0001	-0.0037	-0.0046	-2.5 to 2.5	Pass
			30	4.0	0.560	-5.910	-6.480	0.0003	-0.0031	-0.0034	-2.5 to 2.5	Pass
			40	4.0	6.140	-3.360	-7.400	0.0033	-0.0018	-0.0039	-2.5 to 2.5	Pass
50	4.0	-2.860	4.710	1.730	-0.0015	0.0025	0.0009	-2.5 to 2.5	Pass			
64QAM	25	0	20	3.6	-7.150	-3.690	0.860	-0.0039	-0.0020	0.0005	-2.5 to 2.5	Pass
				4.0	4.680	-2.260	-4.910	0.0025	-0.004.0	-0.0026	-2.5 to 2.5	Pass
				4.4	-3.320	-4.850	8.960	-0.0018	-0.0026	0.0047	-2.5 to 2.5	Pass
			-10	4.0	-2.170	-4.560	8.100	-0.004.0	-0.0024	0.0042	-2.5 to 2.5	Pass
			0	4.0	3.030	6.950	10.910	0.0016	0.0037	0.0057	-2.5 to 2.5	Pass
			10	4.0	-3.750	1.440	7.110	-0.0020	0.0008	0.0037	-2.5 to 2.5	Pass
			30	4.0	6.310	3.860	-2.190	0.0034	0.0021	-0.0011	-2.5 to 2.5	Pass
			40	4.0	0.960	8.470	1.500	0.0005	0.0045	0.0008	-2.5 to 2.5	Pass
50	4.0	0.820	3.960	8.800	0.0004	0.0021	0.0046	-2.5 to 2.5	Pass			
Band: 2 / Bandwidth: 10MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	50	0	20	3.6	2.190	-1.630	-5.010	0.004.0	-0.0009	-0.0026	-2.5 to 2.5	Pass
				4.0	-6.910	4.020	-1.630	-0.0037	0.0021	-0.0009	-2.5 to 2.5	Pass
				4.4	-2.930	4.250	5.480	-0.0016	0.0023	0.0029	-2.5 to 2.5	Pass
			-10	4.0	-9.800	0.110	2.320	-0.0053	0.0001	0.004.0	-2.5 to 2.5	Pass

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			0	4.0	1.170	-7.110	2.960	0.0006	-0.0038	0.0016	-2.5 to 2.5	Pass
			10	4.0	-8.030	-8.230	-6.900	-0.0043	-0.0044	-0.0036	-2.5 to 2.5	Pass
			30	4.0	-6.490	6.740	-7.810	-0.0035	0.0036	-0.0041	-2.5 to 2.5	Pass
			40	4.0	1.460	0.660	0.360	0.0008	0.0004	0.0002	-2.5 to 2.5	Pass
			50	4.0	-6.490	-1.330	4.050	-0.0035	-0.0007	0.0021	-2.5 to 2.5	Pass
16QAM	50	0	20	3.6	1.660	-5.340	3.990	0.0009	-0.0028	0.0021	-2.5 to 2.5	Pass
				4.0	2.350	2.930	1.320	0.0013	0.0016	0.0007	-2.5 to 2.5	Pass
				4.4	4.990	-4.410	-4.060	0.0027	-0.0023	-0.0021	-2.5 to 2.5	Pass
			-10	4.0	3.150	-1.000	2.860	0.0017	-0.0005	0.0015	-2.5 to 2.5	Pass
			0	4.0	-5.610	3.630	-7.100	-0.0030	0.0019	-0.0037	-2.5 to 2.5	Pass
			10	4.0	-1.020	4.4.00	5.440	-0.0005	0.0022	0.0029	-2.5 to 2.5	Pass
			30	4.0	-3.190	-5.680	-7.450	-0.0017	-0.0030	-0.0039	-2.5 to 2.5	Pass
			40	4.0	7.270	-0.760	-1.620	0.0039	-0.0004	-0.0009	-2.5 to 2.5	Pass
50	4.0	0.530	0.130	3.130	0.0003	0.0001	0.0016	-2.5 to 2.5	Pass			
64QAM	50	0	20	3.6	2.330	-6.310	-10.010	0.0013	-0.0034	-0.0053	-2.5 to 2.5	Pass
				4.0	-2.060	-0.540	-5.920	-0.0011	-0.0003	-0.0031	-2.5 to 2.5	Pass
				4.4	4.880	2.190	-7.770	0.0026	0.004.0	-0.0041	-2.5 to 2.5	Pass
			-10	4.0	-4.150	-7.000	-6.390	-0.0022	-0.0037	-0.0034	-2.5 to 2.5	Pass
			0	4.0	-8.000	4.250	4.260	-0.0043	0.0023	0.0022	-2.5 to 2.5	Pass
			10	4.0	-4.850	1.870	3.4.00	-0.0026	0.0010	0.0016	-2.5 to 2.5	Pass
			30	4.0	0.440	-0.860	-0.440	0.0002	-0.0005	-0.0002	-2.5 to 2.5	Pass
			40	4.0	-6.650	0.470	-5.590	-0.0036	0.0003	-0.0029	-2.5 to 2.5	Pass
50	4.0	2.780	4.530	-0.010	0.0015	0.0024	0.0000	-2.5 to 2.5	Pass			
Band: 2 / Bandwidth: 15MHz / NTN/V												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	75	0	20	3.6	4.950	-8.210	0.740	0.0027	-0.0044	0.0004	-2.5 to 2.5	Pass
				4.0	-0.830	-7.470	2.130	-0.0004	-0.0040	0.0011	-2.5 to 2.5	Pass
				4.4	1.430	-8.500	4.840	0.0008	-0.0045	0.0025	-2.5 to 2.5	Pass
			-10	4.0	-3.290	1.140	-8.680	-0.0018	0.0006	-0.0046	-2.5 to 2.5	Pass
			0	4.0	3.450	-3.530	-7.610	0.0019	-0.0019	-0.0040	-2.5 to 2.5	Pass
			10	4.0	-6.180	2.230	-8.430	-0.0033	0.004.0	-0.0044	-2.5 to 2.5	Pass
			30	4.0	-7.080	-6.490	-1.090	-0.0038	-0.0035	-0.0006	-2.5 to 2.5	Pass
			40	4.0	3.750	-10.930	5.320	0.0020	-0.0058	0.0028	-2.5 to 2.5	Pass
50	4.0	-2.730	3.910	5.550	-0.0015	0.0021	0.0029	-2.5 to 2.5	Pass			
16QAM	75	0	20	3.6	-6.170	1.950	0.800	-0.0033	0.0010	0.0004	-2.5 to 2.5	Pass
				4.0	4.180	-6.590	-7.100	0.0023	-0.0035	-0.0037	-2.5 to 2.5	Pass
				4.4	-3.350	2.220	1.020	-0.0018	0.004.0	0.0005	-2.5 to 2.5	Pass
			-10	4.0	3.530	-0.460	0.890	0.0019	-0.0002	0.0005	-2.5 to 2.5	Pass
			0	4.0	-2.390	-5.150	3.220	-0.0013	-0.0027	0.0017	-2.5 to 2.5	Pass
			10	4.0	0.490	5.590	-9.040	0.0003	0.0030	-0.0048	-2.5 to 2.5	Pass
			30	4.0	-3.380	3.950	1.160	-0.0018	0.0021	0.0006	-2.5 to 2.5	Pass
			40	4.0	-4.210	6.140	-0.400	-0.0023	0.0033	-0.0002	-2.5 to 2.5	Pass
50	4.0	-2.850	4.430	-0.430	-0.0015	0.0024	-0.0002	-2.5 to 2.5	Pass			
64QAM	75	0	20	3.6	4.220	6.550	-1.240	0.0023	0.0035	-0.0007	-2.5 to 2.5	Pass
				4.0	-0.170	-6.140	-2.460	-0.0001	-0.0033	-0.0013	-2.5 to 2.5	Pass
				4.4	-9.630	-3.330	-4.810	-0.0052	-0.0018	-0.0025	-2.5 to 2.5	Pass
			-10	4.0	5.440	4.420	0.340	0.0029	0.0024	0.0002	-2.5 to 2.5	Pass
			0	4.0	-1.430	2.900	-0.620	-0.0008	0.0015	-0.0003	-2.5 to 2.5	Pass
			10	4.0	-5.420	-2.650	-5.870	-0.0029	-0.0014	-0.0031	-2.5 to 2.5	Pass
			30	4.0	-6.370	-3.420	2.920	-0.0034	-0.0018	0.0015	-2.5 to 2.5	Pass
			40	4.0	4.390	5.920	-6.540	0.0024	0.0031	-0.0034	-2.5 to 2.5	Pass
50	4.0	-4.130	4.150	7.850	-0.0022	0.0022	0.0041	-2.5 to 2.5	Pass			
Band: 2 / Bandwidth: 20MHz / NTN/V												



Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	100	0	20	3.6	-0.620	-0.230	1.620	-0.0003	-0.0001	0.0009	-2.5 to 2.5	Pass
				4.0	0.940	-4.180	7.020	0.0005	-0.0022	0.0037	-2.5 to 2.5	Pass
				4.4	4.320	1.800	2.520	0.0023	0.0010	0.0013	-2.5 to 2.5	Pass
			-10	4.0	-3.160	4.980	-6.310	-0.0017	0.0026	-0.0033	-2.5 to 2.5	Pass
			0	4.0	1.220	3.080	-6.020	0.0007	0.0016	-0.0032	-2.5 to 2.5	Pass
			10	4.0	-6.820	-1.860	-3.730	-0.0037	-0.0010	-0.0020	-2.5 to 2.5	Pass
			30	4.0	1.500	1.390	-2.500	0.0008	0.0007	-0.0013	-2.5 to 2.5	Pass
			40	4.0	-4.090	3.230	2.500	-0.0022	0.0017	0.0013	-2.5 to 2.5	Pass
16QAM	100	0	20	3.6	-3.180	4.030	-2.350	-0.0017	0.0021	-0.0040	-2.5 to 2.5	Pass
				4.0	0.130	-3.910	-9.140	0.0001	-0.0021	-0.0048	-2.5 to 2.5	Pass
				4.4	-2.150	-7.910	5.310	-0.0040	-0.0042	0.0028	-2.5 to 2.5	Pass
			-10	4.0	1.060	-6.720	1.100	0.0006	-0.0036	0.0006	-2.5 to 2.5	Pass
			0	4.0	-7.740	-7.950	5.710	-0.0042	-0.0042	0.0030	-2.5 to 2.5	Pass
			10	4.0	3.930	-5.710	-5.810	0.0021	-0.0030	-0.0031	-2.5 to 2.5	Pass
			30	4.0	0.230	1.400	-1.360	0.0001	0.0006	-0.0007	-2.5 to 2.5	Pass
			40	4.0	-2.330	-2.860	-5.650	-0.0013	-0.0015	-0.0030	-2.5 to 2.5	Pass
64QAM	100	0	20	3.6	4.820	-7.210	3.080	0.0026	-0.0038	0.0016	-2.5 to 2.5	Pass
				4.0	-5.740	-4.250	-9.370	-0.0031	-0.0023	-0.0049	-2.5 to 2.5	Pass
				4.4	-6.350	-1.820	2.100	-0.0034	-0.0010	0.0011	-2.5 to 2.5	Pass
			-10	4.0	2.690	4.940	-7.400	0.0014	0.0026	-0.0039	-2.5 to 2.5	Pass
			0	4.0	-8.070	-0.800	-7.380	-0.0043	-0.0004	-0.0039	-2.5 to 2.5	Pass
			10	4.0	-7.210	-4.650	-6.390	-0.0039	-0.0025	-0.0034	-2.5 to 2.5	Pass
			30	4.0	4.580	-4.220	-5.360	0.0025	-0.0022	-0.0028	-2.5 to 2.5	Pass
			40	4.0	-0.010	-0.720	2.400	0.0000	-0.0004	0.0013	-2.5 to 2.5	Pass
			20	3.6	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
				4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
				4.4	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
			-10	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
			0	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
			10	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
			30	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass
			40	4.0	-3.690	-6.370	1.930	-0.0020	-0.0034	0.0010	-2.5 to 2.5	Pass

1.4 LTE Band 25

1.4.1 Test Result

Band: 25 / Bandwidth: 1.4MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	6	0	20	3.6	2.780	-4.840	-1.970	0.0015	-0.0026	-0.0010	-2.5 to 2.5	Pass
				4.0	3.080	10.760	-2.450	0.0017	0.0057	-0.0013	-2.5 to 2.5	Pass
				4.4	-8.400	-0.270	5.360	-0.0045	-0.0001	0.0028	-2.5 to 2.5	Pass
			-10	4.0	-7.740	-4.910	2.730	-0.0042	-0.0026	0.0014	-2.5 to 2.5	Pass
			0	4.0	3.950	-6.110	2.450	0.0021	-0.0032	0.0013	-2.5 to 2.5	Pass
			10	4.0	-4.220	-7.900	-1.560	-0.0023	-0.0042	-0.0008	-2.5 to 2.5	Pass
			30	4.0	4.650	7.250	3.830	0.0025	0.0039	0.0020	-2.5 to 2.5	Pass
			40	4.0	-1.790	-0.560	-0.730	-0.0010	-0.0003	-0.0004	-2.5 to 2.5	Pass
16QAM	6	0	20	3.6	2.420	2.950	-4.960	0.0013	0.0016	-0.0026	-2.5 to 2.5	Pass
				4.0	3.560	-5.820	5.970	0.0019	-0.0031	-0.0031	-2.5 to 2.5	Pass
				4.4	-1.750	-0.240	6.610	-0.0009	-0.0001	0.0035	-2.5 to 2.5	Pass
			-10	4.0	-2.980	-0.890	-2.980	-0.0016	-0.0005	-0.0016	-2.5 to 2.5	Pass
			0	4.0	1.820	7.500	5.220	0.0010	0.0040	0.0027	-2.5 to 2.5	Pass
			10	4.0	-4.980	1.760	-3.100	-0.0027	0.0009	-0.0016	-2.5 to 2.5	Pass
			30	4.0	-4.980	1.760	-3.100	-0.0027	0.0009	-0.0016	-2.5 to 2.5	Pass
			40	4.0	-4.980	1.760	-3.100	-0.0027	0.0009	-0.0016	-2.5 to 2.5	Pass

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			30	4.0	-9.140	-0.960	5.740	-0.0049	-0.0005	0.0030	-2.5 to 2.5	Pass
			40	4.0	-2.720	6.380	-5.540	-0.0015	0.0034	-0.0029	-2.5 to 2.5	Pass
			50	4.0	4.010	2.530	-7.420	0.0022	0.0013	-0.0039	-2.5 to 2.5	Pass
			20	3.6	3.180	0.960	-4.950	0.0017	0.0005	-0.0026	-2.5 to 2.5	Pass
				4.0	-4.880	-5.990	3.690	-0.0026	-0.0032	0.0019	-2.5 to 2.5	Pass
				4.4	0.660	-10.510	-3.080	0.0004	-0.0056	-0.0016	-2.5 to 2.5	Pass
			-10	4.0	6.040	-0.500	-4.890	0.0033	-0.0003	-0.0026	-2.5 to 2.5	Pass
			0	4.0	0.230	-4.360	-3.100	0.0001	-0.0023	-0.0016	-2.5 to 2.5	Pass
			10	4.0	-2.830	1.660	-6.480	-0.0015	0.0009	-0.0034	-2.5 to 2.5	Pass
30	4.0	-7.770	4.210	3.720	-0.0042	0.0022	0.0019	-2.5 to 2.5	Pass			
40	4.0	-0.240	-3.450	4.310	-0.0001	-0.0018	0.0023	-2.5 to 2.5	Pass			
50	4.0	-5.210	5.920	3.710	-0.0028	0.0031	0.0019	-2.5 to 2.5	Pass			
Band: 25 / Bandwidth: 3MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	15	0	20	3.6	4.920	-6.210	3.650	0.0027	-0.0033	0.0019	-2.5 to 2.5	Pass
				4.0	-5.050	-6.610	1.090	-0.0027	-0.0035	0.0006	-2.5 to 2.5	Pass
				4.4	5.920	4.410	4.460	0.0032	0.0023	0.0023	-2.5 to 2.5	Pass
			-10	4.0	7.750	-7.620	7.240	0.0042	-0.0040	0.0038	-2.5 to 2.5	Pass
			0	4.0	-5.910	-8.740	-8.830	-0.0032	-0.0046	-0.0046	-2.5 to 2.5	Pass
			10	4.0	-2.400	-6.070	-5.240	-0.0013	-0.0032	-0.0027	-2.5 to 2.5	Pass
			30	4.0	-7.850	8.800	5.590	-0.0042	0.0047	0.0029	-2.5 to 2.5	Pass
			40	4.0	5.160	5.320	4.360	0.0028	0.0028	0.0023	-2.5 to 2.5	Pass
			50	4.0	-0.790	0.070	5.780	-0.0004	0.0000	0.0030	-2.5 to 2.5	Pass
16QAM	15	0	20	3.6	-6.370	5.260	-7.480	-0.0034	0.0028	-0.0039	-2.5 to 2.5	Pass
				4.0	-6.250	5.840	3.280	-0.0034	0.0031	0.0017	-2.5 to 2.5	Pass
				4.4	5.690	-11.420	-5.050	0.0031	-0.0061	-0.0026	-2.5 to 2.5	Pass
			-10	4.0	-1.520	-4.0670	6.720	-0.0008	-0.0067	0.0035	-2.5 to 2.5	Pass
			0	4.0	7.610	-11.070	-0.230	0.0041	-0.0059	-0.0001	-2.5 to 2.5	Pass
			10	4.0	-1.000	-7.900	-0.740	-0.0005	-0.0042	-0.0004	-2.5 to 2.5	Pass
			30	4.0	-4.380	-8.400	-2.680	-0.0024	-0.0045	-0.0014	-2.5 to 2.5	Pass
			40	4.0	5.400	-10.210	3.910	0.0028	-0.0054	0.0020	-2.5 to 2.5	Pass
			50	4.0	-6.270	-9.240	-3.260	-0.0034	-0.0049	-0.0017	-2.5 to 2.5	Pass
64QAM	15	0	20	3.6	-7.470	-7.210	4.510	-0.0040	-0.0038	0.0024	-2.5 to 2.5	Pass
				4.0	2.690	1.600	-7.940	0.0015	0.0008	-0.0041	-2.5 to 2.5	Pass
				4.4	-0.470	3.550	-2.850	-0.0003	0.0019	-0.0015	-2.5 to 2.5	Pass
			-10	4.0	-7.150	8.000	1.390	-0.0039	0.0042	0.0007	-2.5 to 2.5	Pass
			0	4.0	3.150	8.240	-0.370	0.0017	0.0044	-0.0002	-2.5 to 2.5	Pass
			10	4.0	6.380	6.940	0.990	0.0034	0.0037	0.0005	-2.5 to 2.5	Pass
			30	4.0	-1.420	7.070	5.060	-0.0008	0.0038	0.0026	-2.5 to 2.5	Pass
			40	4.0	-1.900	2.600	3.160	-0.0010	0.0014	0.0017	-2.5 to 2.5	Pass
			50	4.0	-7.640	3.360	3.050	-0.0041	0.0018	0.0016	-2.5 to 2.5	Pass
Band: 25 / Bandwidth: 5MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	25	0	20	3.6	3.910	-0.620	4.980	0.0021	-0.0003	0.0026	-2.5 to 2.5	Pass
				4.0	-6.610	-7.480	2.290	-0.0036	-0.0040	0.0040	-2.5 to 2.5	Pass
				4.4	-3.720	0.140	2.880	-0.0020	0.0001	0.0015	-2.5 to 2.5	Pass
			-10	4.0	-7.800	-8.110	2.470	-0.0042	-0.0043	0.0013	-2.5 to 2.5	Pass
			0	4.0	1.220	0.760	-3.430	0.0007	0.0004	-0.0018	-2.5 to 2.5	Pass
			10	4.0	-4.020	3.560	4.610	-0.0022	0.0019	0.0024	-2.5 to 2.5	Pass
			30	4.0	5.620	-4.260	0.110	0.0030	-0.0023	0.0001	-2.5 to 2.5	Pass
			40	4.0	7.200	-9.160	-1.530	0.0039	-0.0049	-0.0008	-2.5 to 2.5	Pass
			50	4.0	6.620	-3.200	3.100	0.0036	-0.0017	0.0016	-2.5 to 2.5	Pass



16QAM	25	0	20	3.6	-8.980	-0.900	-6.550	-0.0048	-0.0005	-0.0034	-2.5 to 2.5	Pass
				4.0	-3.760	-6.220	-5.080	-0.0020	-0.0033	-0.0027	-2.5 to 2.5	Pass
				4.4	1.000	2.260	-6.900	0.0005	0.0040	-0.0036	-2.5 to 2.5	Pass
			-10	4.0	-6.390	-7.640	-2.890	-0.0034	-0.0041	-0.0015	-2.5 to 2.5	Pass
			0	4.0	-0.770	-2.450	-4.410	-0.0004	-0.0013	-0.0023	-2.5 to 2.5	Pass
			10	4.0	-1.920	0.700	-0.890	-0.0010	0.0004	-0.0005	-2.5 to 2.5	Pass
			30	4.0	3.260	-4.850	-7.180	0.0018	-0.0026	-0.0038	-2.5 to 2.5	Pass
			40	4.0	-5.440	-0.310	-3.060	-0.0029	-0.0002	-0.0016	-2.5 to 2.5	Pass
50	4.0	-9.180	8.210	-6.940	-0.0050	0.0044	-0.0036	-2.5 to 2.5	Pass			
64QAM	25	0	20	3.6	2.760	1.390	5.310	0.0015	0.0007	0.0028	-2.5 to 2.5	Pass
				4.0	-5.690	-7.480	-6.910	-0.0031	-0.0040	-0.0036	-2.5 to 2.5	Pass
				4.4	-0.940	-1.750	-4.310	-0.0005	-0.0009	-0.0023	-2.5 to 2.5	Pass
			-10	4.0	-1.560	2.050	2.330	-0.0008	0.0011	0.0040	-2.5 to 2.5	Pass
			0	4.0	0.620	8.470	5.020	0.0003	0.0045	0.0026	-2.5 to 2.5	Pass
			10	4.0	7.170	0.130	-0.500	0.0039	0.0001	-0.0003	-2.5 to 2.5	Pass
			30	4.0	0.900	5.820	3.950	0.0005	0.0031	0.0021	-2.5 to 2.5	Pass
			40	4.0	-1.360	1.440	-8.370	-0.0007	0.0008	-0.0044	-2.5 to 2.5	Pass
50	4.0	5.740	-6.050	-6.690	-0.0031	-0.0032	-0.0035	-2.5 to 2.5	Pass			
Band: 25 / Bandwidth: 10MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	50	0	20	3.6	5.640	-2.650	2.530	0.0030	-0.0014	0.0013	-2.5 to 2.5	Pass
				4.0	7.820	-2.070	-2.000	0.0042	-0.0011	-0.0010	-2.5 to 2.5	Pass
				4.4	-6.900	-11.600	3.860	-0.0037	-0.0062	0.0020	-2.5 to 2.5	Pass
			-10	4.0	2.680	-8.850	-6.280	0.0014	-0.0047	-0.0033	-2.5 to 2.5	Pass
			0	4.0	-0.840	-13.320	-1.720	-0.0005	-0.0071	-0.0009	-2.5 to 2.5	Pass
			10	4.0	1.490	0.800	-2.950	0.0008	0.0004	-0.0015	-2.5 to 2.5	Pass
			30	4.0	-0.410	-1.370	-7.050	-0.0002	-0.0007	-0.0037	-2.5 to 2.5	Pass
			40	4.0	1.320	-0.830	-5.840	0.0007	-0.0004	-0.0031	-2.5 to 2.5	Pass
50	4.0	-4.290	-5.080	-5.080	-0.0023	-0.0027	-0.0027	-2.5 to 2.5	Pass			
16QAM	50	0	20	3.6	-5.240	1.700	0.030	-0.0028	0.0009	0.0000	-2.5 to 2.5	Pass
				4.0	-4.430	2.790	-9.700	-0.0024	0.0015	-0.0051	-2.5 to 2.5	Pass
				4.4	-0.140	-10.600	5.290	-0.0001	-0.0056	0.0028	-2.5 to 2.5	Pass
			-10	4.0	6.520	5.880	-0.190	0.0035	0.0031	-0.0001	-2.5 to 2.5	Pass
			0	4.0	-2.620	5.840	0.060	-0.0014	0.0031	0.0000	-2.5 to 2.5	Pass
			10	4.0	0.970	-6.450	-5.680	0.0005	-0.0034	-0.0030	-2.5 to 2.5	Pass
			30	4.0	1.390	-2.990	-4.990	0.0007	-0.0016	-0.0026	-2.5 to 2.5	Pass
			40	4.0	-8.100	-8.970	3.760	-0.0044	-0.0048	0.0020	-2.5 to 2.5	Pass
50	4.0	6.690	-10.240	-4.360	0.0036	-0.0054	-0.0023	-2.5 to 2.5	Pass			
64QAM	50	0	20	3.6	-4.480	9.230	2.600	-0.0024	0.0049	0.0014	-2.5 to 2.5	Pass
				4.0	-3.780	-7.320	-3.550	-0.0020	-0.0039	-0.0019	-2.5 to 2.5	Pass
				4.4	0.840	-6.980	-8.480	0.0005	-0.0037	-0.0044	-2.5 to 2.5	Pass
			-10	4.0	0.230	-8.140	5.910	0.0001	-0.0043	0.0031	-2.5 to 2.5	Pass
			0	4.0	-5.050	7.980	1.820	-0.0027	0.0042	0.0010	-2.5 to 2.5	Pass
			10	4.0	4.030	6.390	-2.590	0.0022	0.0034	-0.0014	-2.5 to 2.5	Pass
			30	4.0	1.760	7.350	-7.550	0.0009	0.0039	-0.0040	-2.5 to 2.5	Pass
			40	4.0	0.660	6.980	6.570	0.0004	0.0037	0.0034	-2.5 to 2.5	Pass
50	4.0	0.300	4.750	6.650	0.0002	0.0025	0.0035	-2.5 to 2.5	Pass			
Band: 25 / Bandwidth: 15MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	75	0	20	3.6	-5.110	-2.520	3.880	-0.0028	-0.0013	0.0020	-2.5 to 2.5	Pass
				4.0	0.400	-9.380	-2.550	0.0002	-0.0050	-0.0013	-2.5 to 2.5	Pass
				4.4	-6.920	-9.360	-1.390	-0.0037	-0.0050	-0.0007	-2.5 to 2.5	Pass



			-10	4.0	0.140	-4.0.420	-2.880	0.0001	-0.0066	-0.0015	-2.5 to 2.5	Pass
			0	4.0	-3.720	1.800	-7.600	-0.0020	0.0010	-0.0040	-2.5 to 2.5	Pass
			10	4.0	-1.170	-8.710	0.590	-0.0006	-0.0046	0.0003	-2.5 to 2.5	Pass
			30	4.0	-7.220	4.450	4.250	-0.0039	0.0024	0.0022	-2.5 to 2.5	Pass
			40	4.0	-1.4.00	-4.310	-7.350	-0.0006	-0.0023	-0.0039	-2.5 to 2.5	Pass
			50	4.0	-3.690	5.090	-10.570	-0.0020	0.0027	-0.0055	-2.5 to 2.5	Pass
16QAM	75	0	20	3.6	-6.980	-8.380	-3.330	-0.0038	-0.0045	-0.0017	-2.5 to 2.5	Pass
				4.0	6.070	-1.990	-2.350	0.0033	-0.0011	-0.004.0	-2.5 to 2.5	Pass
				4.4	3.200	-5.110	-5.690	0.0017	-0.0027	-0.0030	-2.5 to 2.5	Pass
			-10	4.0	-4.950	-3.330	-8.410	-0.0027	-0.0018	-0.0044	-2.5 to 2.5	Pass
			0	4.0	1.440	-2.560	-4.060	0.0008	-0.0014	-0.0021	-2.5 to 2.5	Pass
			10	4.0	4.210	-0.010	-2.170	0.0023	0.0000	-0.0011	-2.5 to 2.5	Pass
			30	4.0	5.620	-8.930	-0.990	0.0030	-0.0047	-0.0005	-2.5 to 2.5	Pass
			40	4.0	4.480	-1.170	-2.000	0.0024	-0.0006	-0.0010	-2.5 to 2.5	Pass
			50	4.0	-3.220	-9.540	-3.750	-0.0017	-0.0051	-0.0020	-2.5 to 2.5	Pass
64QAM	75	0	20	3.6	6.720	-11.990	-2.350	0.0036	-0.0064	-0.004.0	-2.5 to 2.5	Pass
				4.0	-5.560	-11.360	-8.180	-0.0030	-0.0060	-0.0043	-2.5 to 2.5	Pass
				4.4	3.560	-9.130	3.220	0.0019	-0.0048	0.0017	-2.5 to 2.5	Pass
			-10	4.0	-6.140	-7.950	0.410	-0.0033	-0.0042	0.0002	-2.5 to 2.5	Pass
			0	4.0	5.040	-6.640	0.560	0.0027	-0.0035	0.0003	-2.5 to 2.5	Pass
			10	4.0	-3.350	3.380	-2.780	-0.0018	0.0018	-0.0015	-2.5 to 2.5	Pass
			30	4.0	-4.610	-11.330	0.830	-0.0025	-0.0060	0.0004	-2.5 to 2.5	Pass
			40	4.0	-5.660	0.170	1.930	-0.0030	0.0001	0.0010	-2.5 to 2.5	Pass
			50	4.0	-5.640	7.910	3.860	-0.0030	0.0042	0.0020	-2.5 to 2.5	Pass
Band: 25 / Bandwidth: 20MHz / NTNV												
Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
QPSK	100	0	20	3.6	-4.080	-10.060	-4.510	-0.0022	-0.0053	-0.0024	-2.5 to 2.5	Pass
				4.0	-4.940	-7.300	4.920	-0.0027	-0.0039	0.0026	-2.5 to 2.5	Pass
				4.4	-1.240	-6.290	5.4.00	-0.0007	-0.0033	0.0027	-2.5 to 2.5	Pass
			-10	4.0	-2.520	0.760	3.680	-0.0014	0.0004	0.0019	-2.5 to 2.5	Pass
			0	4.0	0.800	5.040	-2.130	0.0004	0.0027	-0.0011	-2.5 to 2.5	Pass
			10	4.0	-1.090	-0.390	2.400	-0.0006	-0.0002	0.0013	-2.5 to 2.5	Pass
			30	4.0	-4.910	-0.190	-7.450	-0.0026	-0.0001	-0.0039	-2.5 to 2.5	Pass
			40	4.0	-1.220	3.960	-5.510	-0.0007	0.0021	-0.0029	-2.5 to 2.5	Pass
16QAM	100	0	20	3.6	-0.670	1.790	3.560	-0.0004	0.0010	0.0019	-2.5 to 2.5	Pass
				4.0	-0.720	-6.280	-7.470	-0.0004	-0.0033	-0.0039	-2.5 to 2.5	Pass
				4.4	-5.840	-3.030	-7.900	-0.0031	-0.0016	-0.0041	-2.5 to 2.5	Pass
			-10	4.0	1.630	1.300	-4.530	0.0009	0.0007	-0.0024	-2.5 to 2.5	Pass
			0	4.0	-7.940	-9.830	4.730	-0.0043	-0.0052	0.0025	-2.5 to 2.5	Pass
			10	4.0	-8.580	7.4.00	-6.080	-0.0046	0.0038	-0.0032	-2.5 to 2.5	Pass
			30	4.0	-7.870	-9.730	-3.200	-0.0042	-0.0052	-0.0017	-2.5 to 2.5	Pass
			40	4.0	-5.650	6.250	-2.450	-0.0030	0.0033	-0.0013	-2.5 to 2.5	Pass
64QAM	100	0	20	3.6	-0.660	-4.820	-3.530	-0.0004	-0.0026	-0.0019	-2.5 to 2.5	Pass
				4.0	-7.840	-8.370	-2.600	-0.0042	-0.0044	-0.0014	-2.5 to 2.5	Pass
				4.4	0.300	-3.000	-2.520	0.0002	-0.0016	-0.0013	-2.5 to 2.5	Pass
			-10	4.0	4.420	-3.830	4.680	0.0024	-0.0020	0.0025	-2.5 to 2.5	Pass
			0	4.0	-5.150	-8.210	-6.490	-0.0028	-0.0044	-0.0034	-2.5 to 2.5	Pass
			10	4.0	1.760	-0.330	-6.980	0.0009	-0.0002	-0.0037	-2.5 to 2.5	Pass
			30	4.0	-9.330	-7.700	-1.130	-0.0050	-0.0041	-0.0006	-2.5 to 2.5	Pass
			40	4.0	3.830	-2.570	2.050	0.0021	-0.0014	0.0011	-2.5 to 2.5	Pass
50	4.0	-2.730	6.070	4.450	-0.0015	0.0032	0.0023	-2.5 to 2.5	Pass			



2. 99% & 26dB Bandwidth

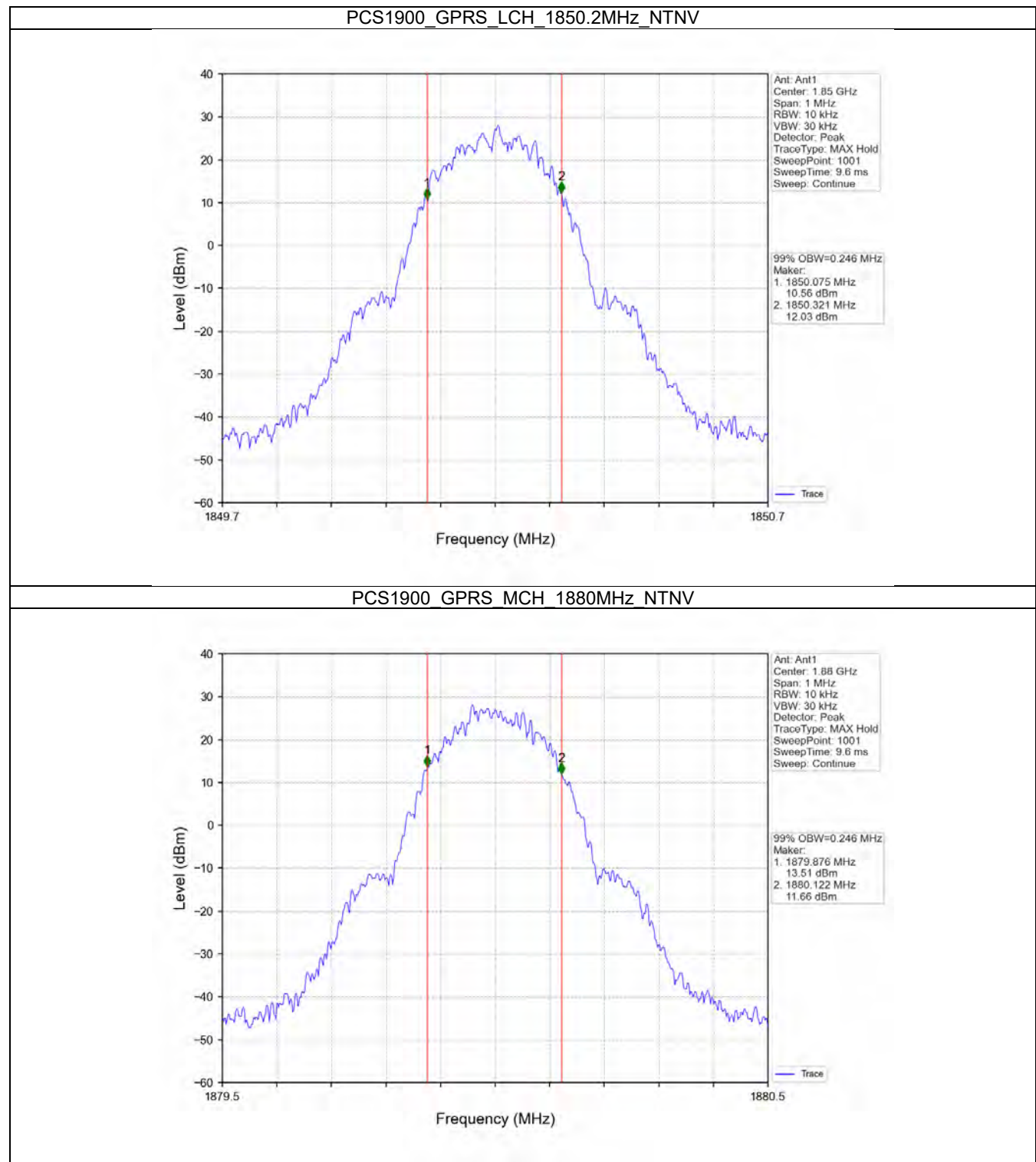
2.1 PCS1900_OBW

2.1.1 Test Result

Band: PCS1900							
ENV	Mode		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	GPRS	/	0.246	0.246	0.240	/	Pass
	EGPRS	/	0.240	0.234	0.242	/	Pass



2.1.2 Test Graph



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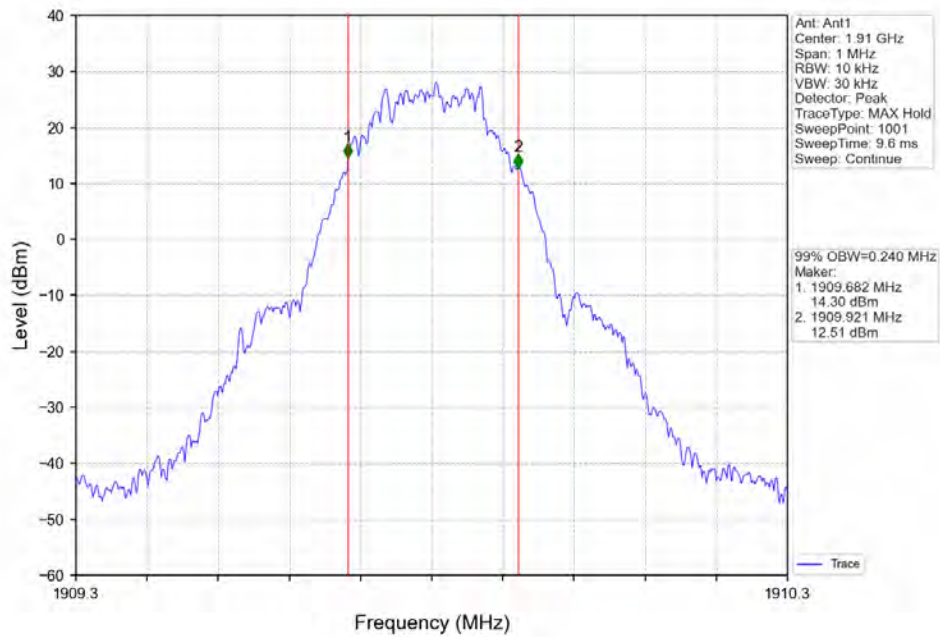
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Fax: +86 755 8869 6577

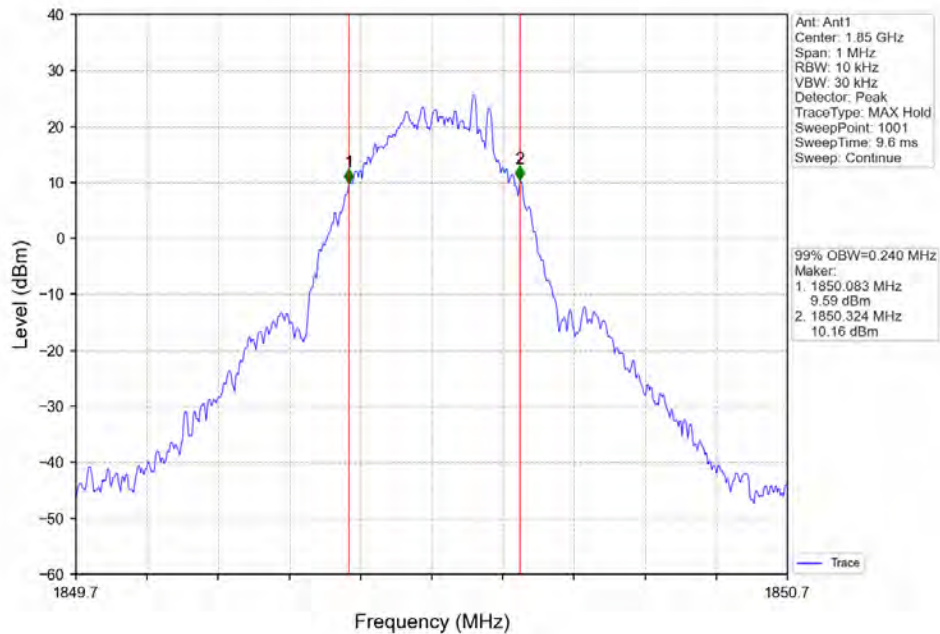
Email: customerservice.sw@bureauveritas.com



PCS1900_GPRS_HCH_1909.8MHz_NTNV

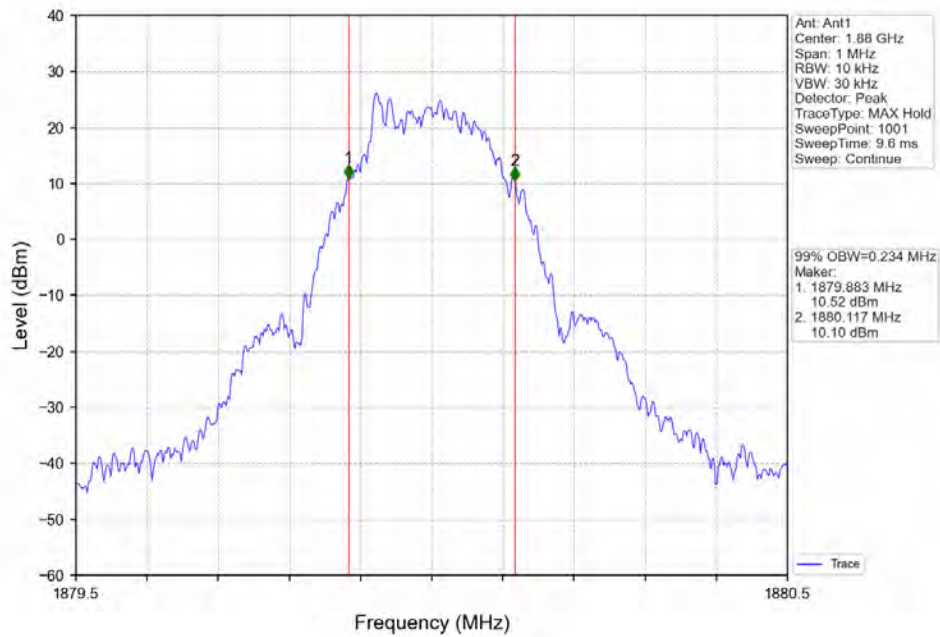


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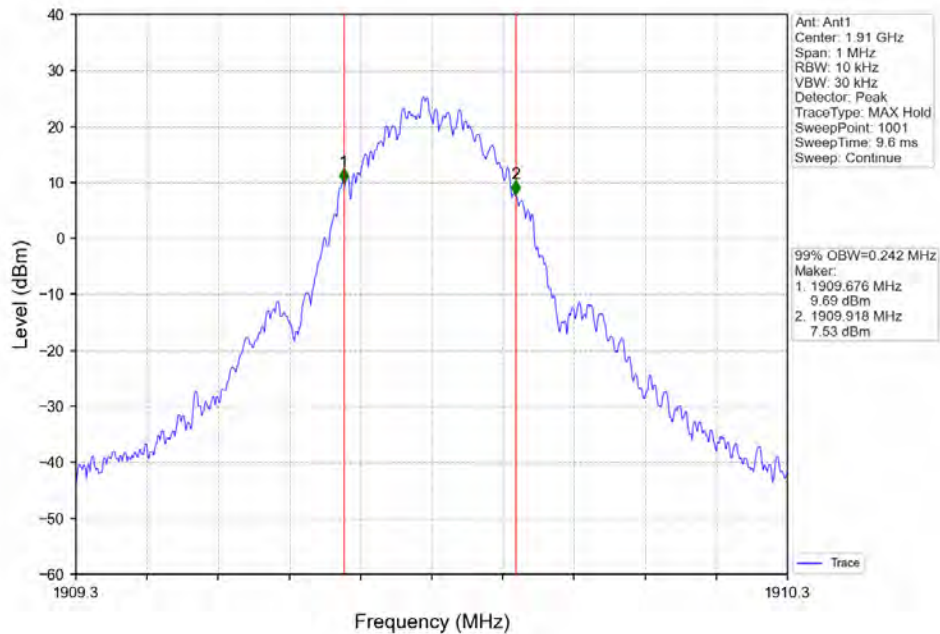




PCS1900_EGPRS_MCH_1880MHz_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_NTNV





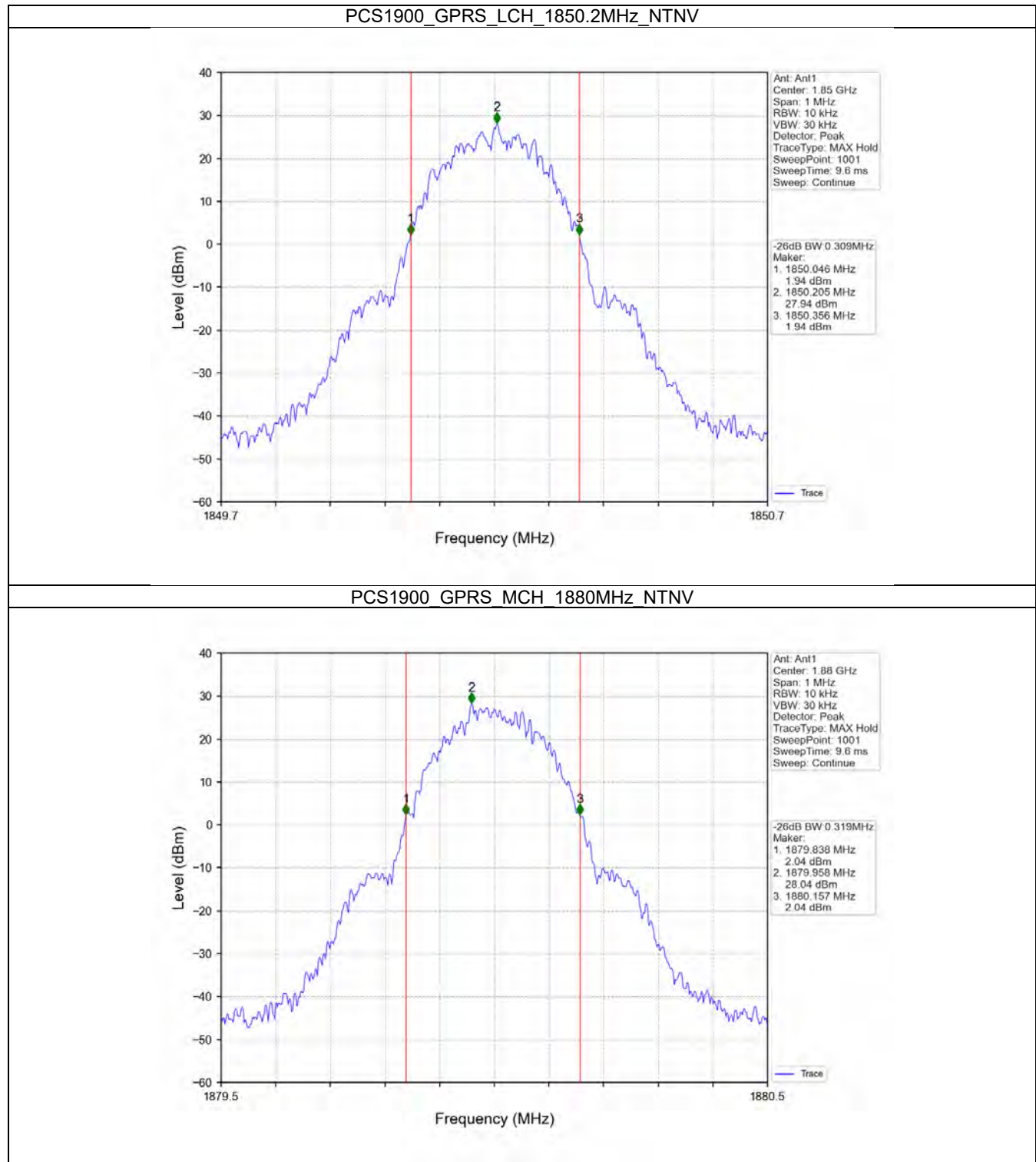
2.2 PCS1900 26DB

2.2.1 Test Result

Band: PCS1900							
ENV	Mode		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	GPRS	/	0.309	0.319	0.310	/	Pass
	EGPRS	/	0.296	0.300	0.298	/	Pass



2.2.2 Test Graph



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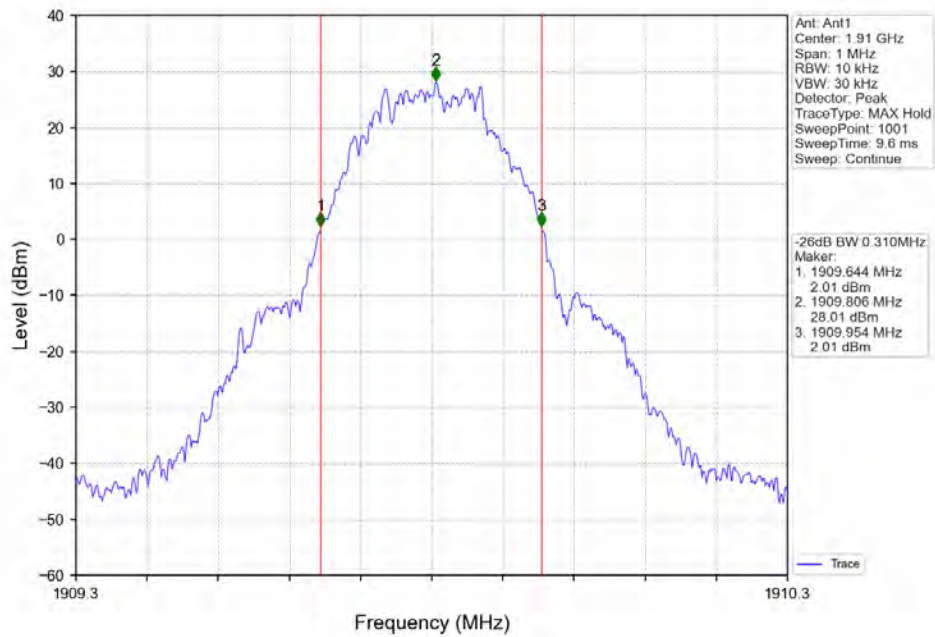
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

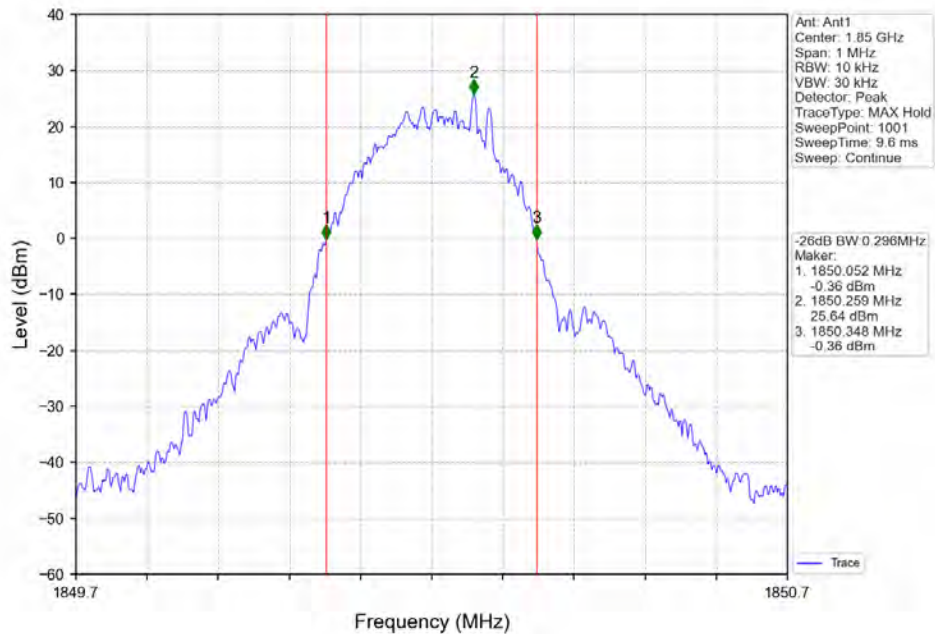
Email: customerservice.sw@bureauveritas.com



PCS1900_GPRS_HCH_1909.8MHz_NTNV

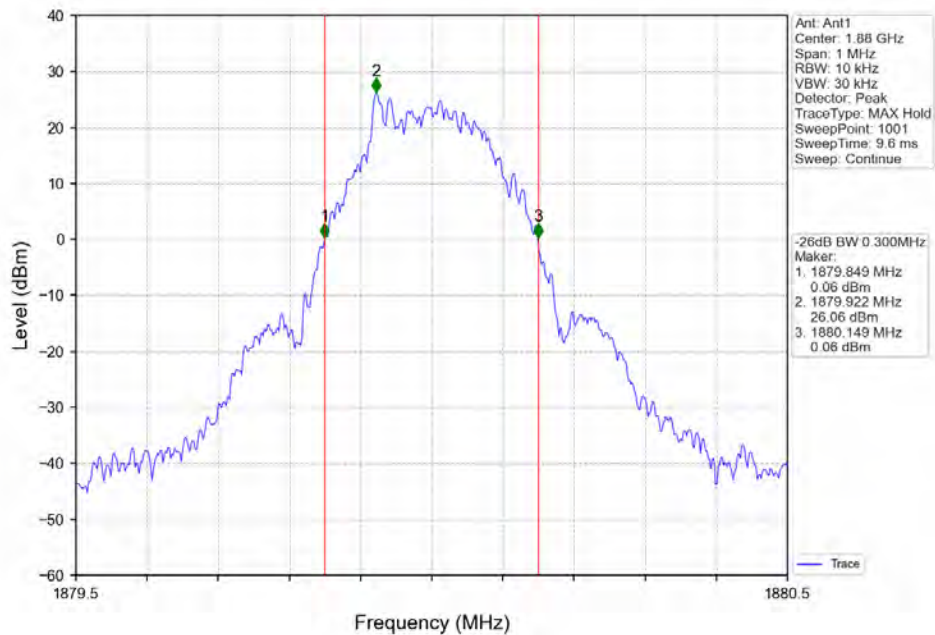


PCS1900_EGPRS_LCH_1850.2MHz_NTNV

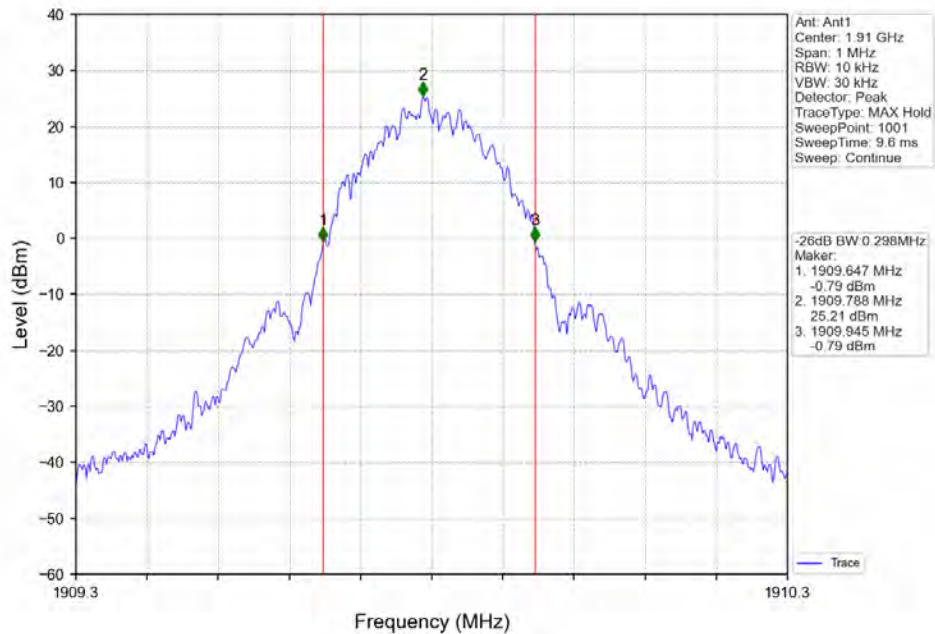




PCS1900_EGPRS_MCH_1880MHz_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_NTNV





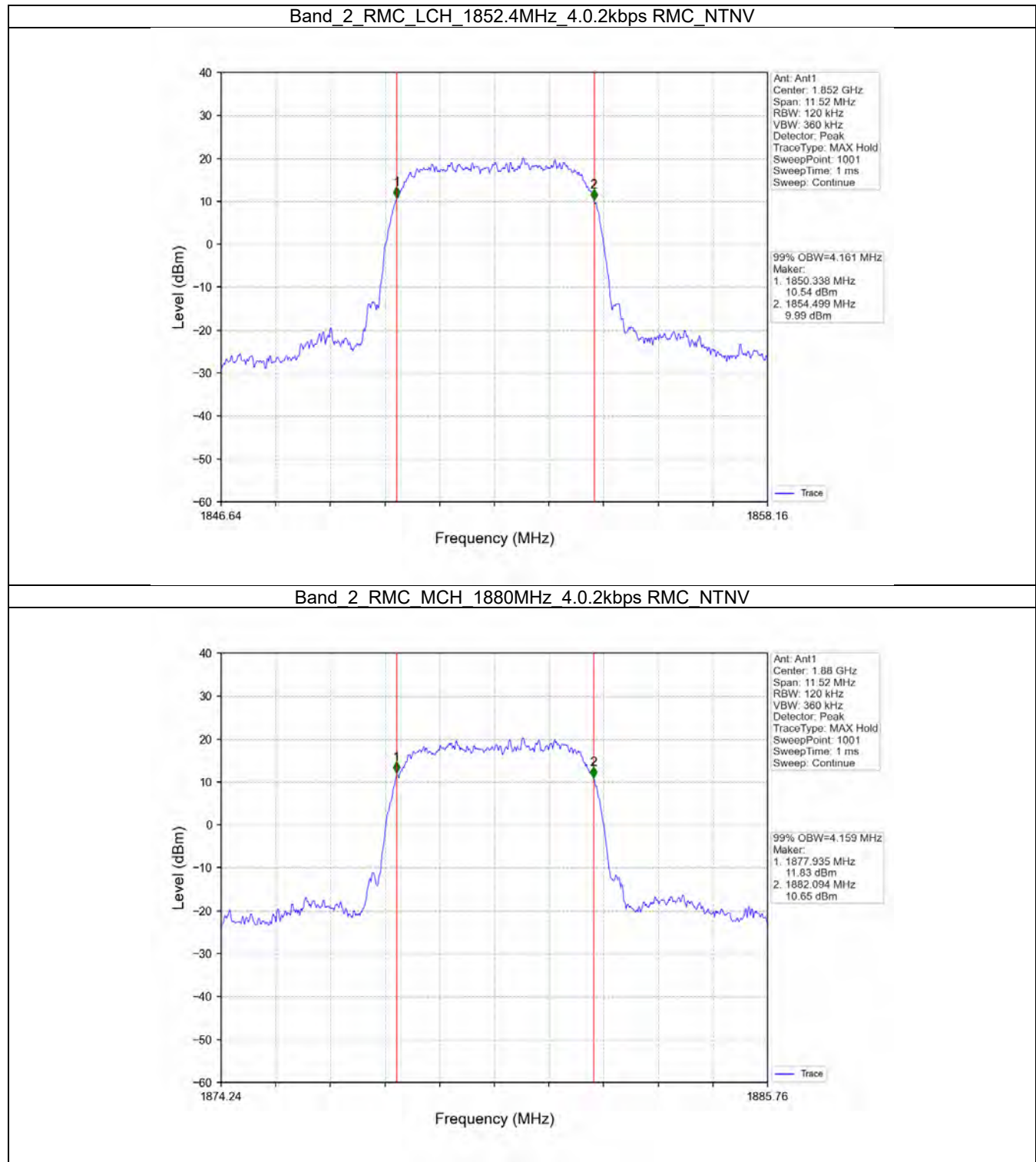
2.3 WCDMA Band2 OBW

2.3.1 Test Result

Band: 2							
ENV	Mode		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.161	4.159	4.151	/	Pass



2.3.2 Test Graph



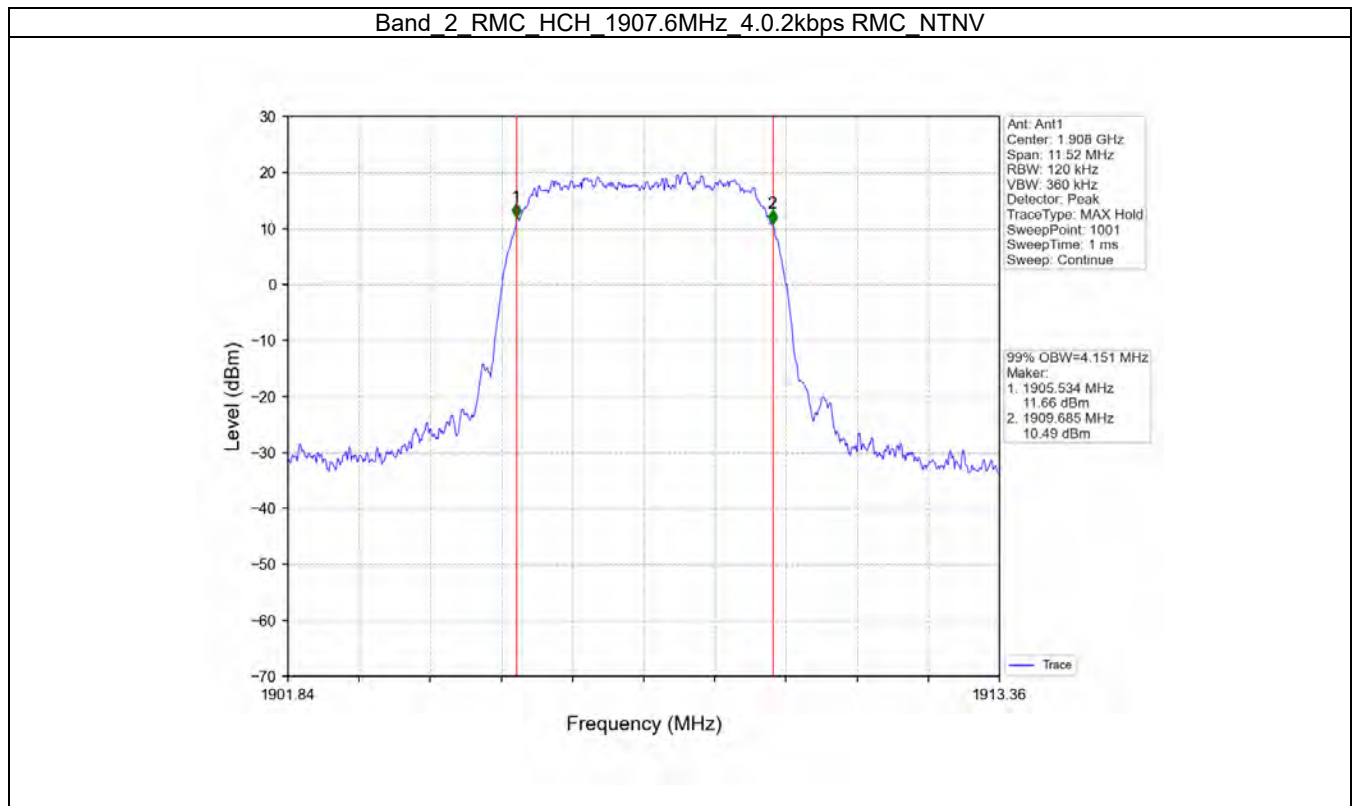
BV 7Layers Communications
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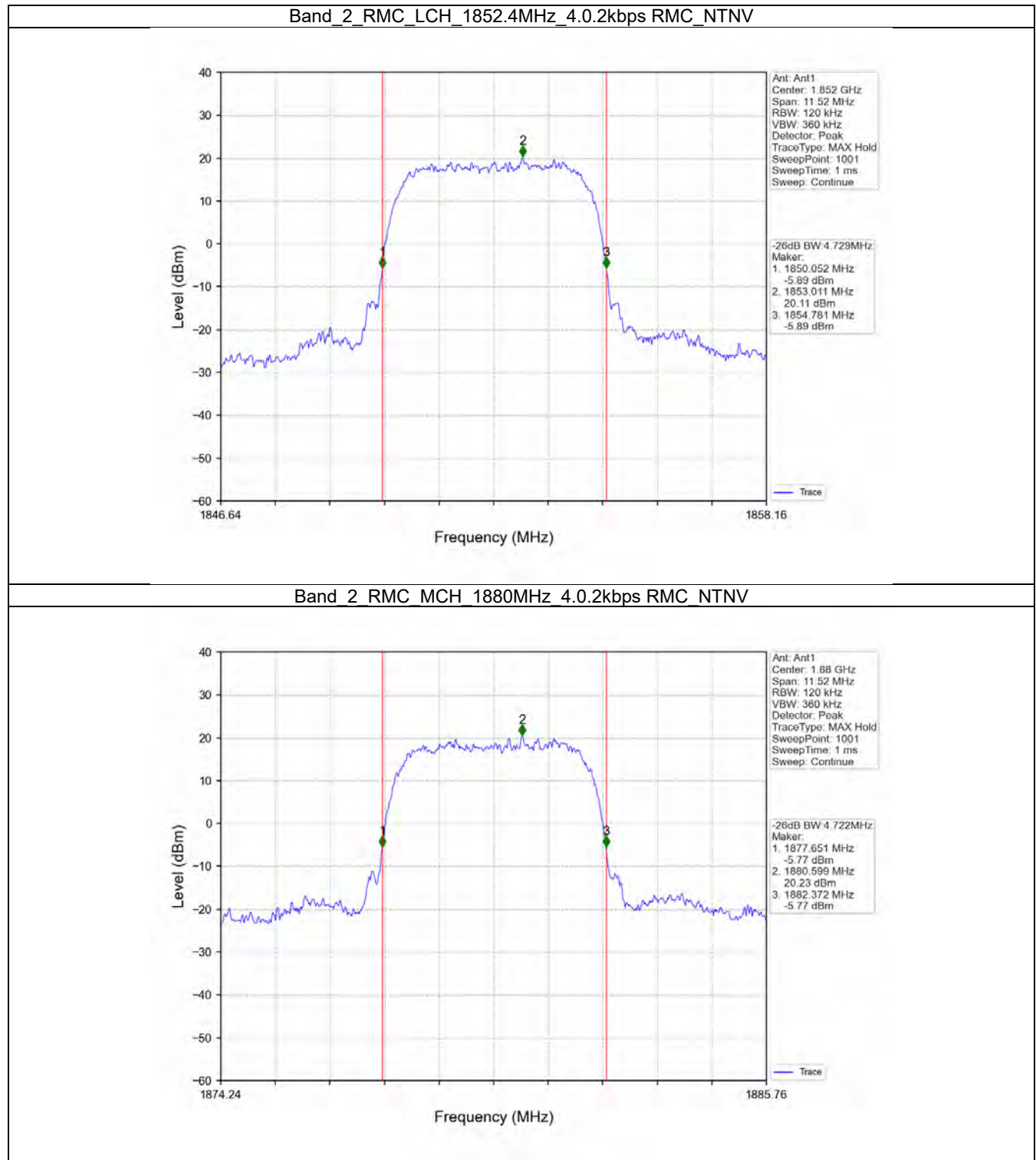
2.4 WCDMA Band2 26DB

2.4.1 Test Result

Band: 2							
ENV	Mode		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Network	Subset	LCH	MCH	HCH		
NTNV	RMC	4.0.2kbps RMC	4.729	4.722	4.747	/	Pass



2.4.2 Test Graph



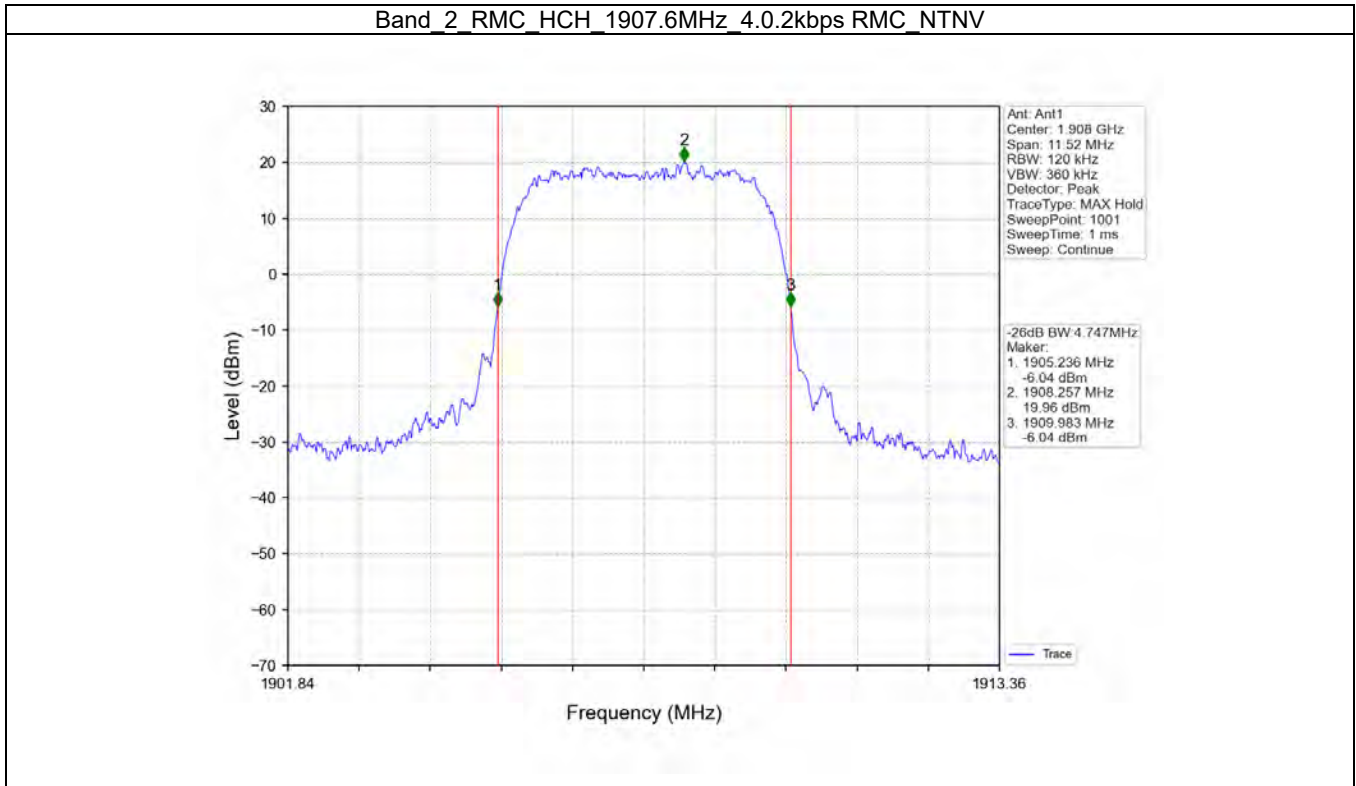
BV 7Layers Communications
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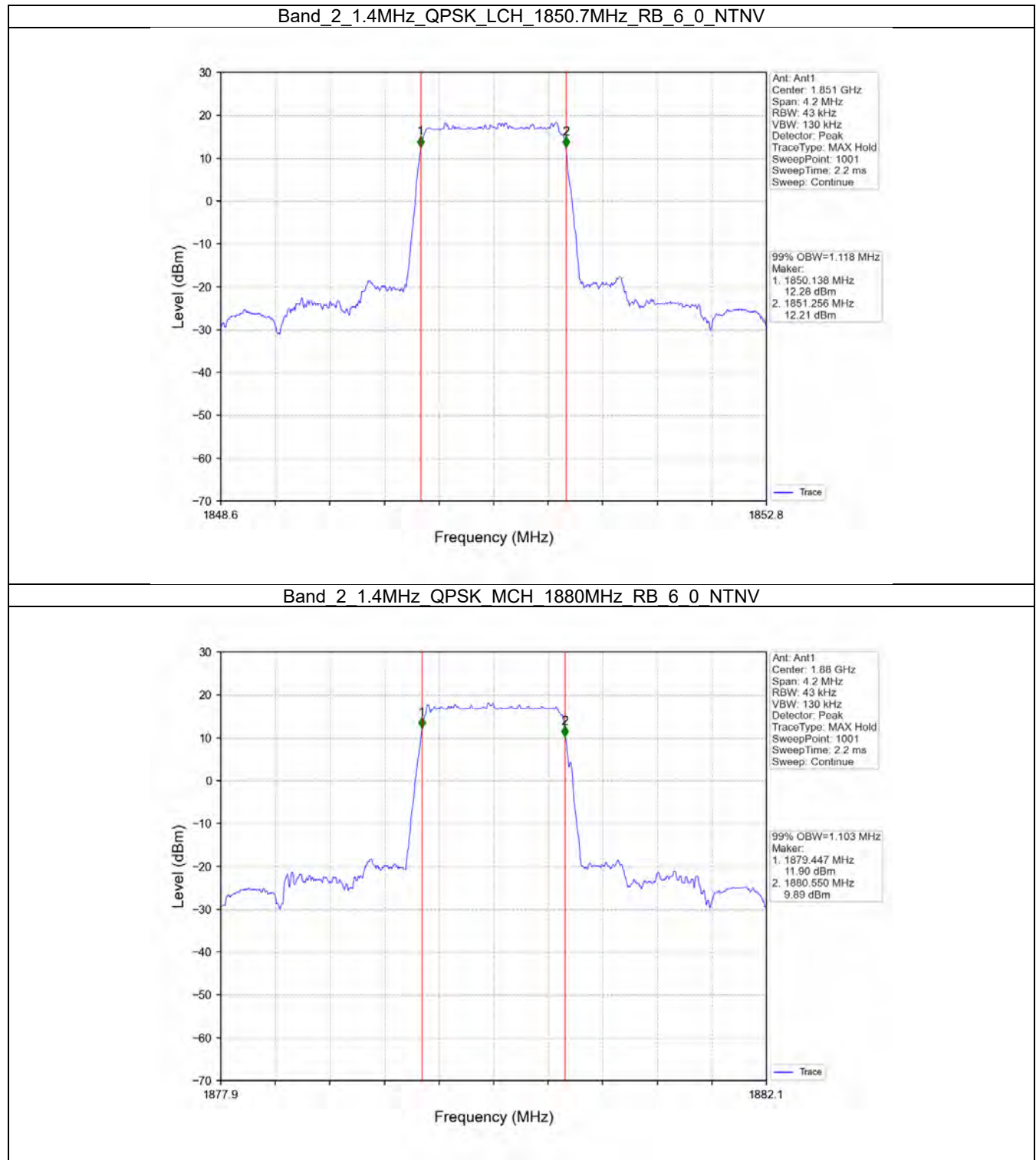
2.5 LTE Band 2 OBW

2.5.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.118	1.103	1.106	/	Pass
16QAM	6	0	1.106	1.104	1.107	/	Pass
64QAM	6	0	1.109	1.104	1.106	/	Pass
Band: 2 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.744	2.748	2.745	/	Pass
16QAM	15	0	2.752	2.743	2.736	/	Pass
64QAM	15	0	2.742	2.748	2.745	/	Pass
Band: 2 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.556	4.544	4.536	/	Pass
16QAM	25	0	4.528	4.569	4.570	/	Pass
64QAM	25	0	4.569	4.553	4.534	/	Pass
Band: 2 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.041	9.048	9.028	/	Pass
16QAM	50	0	9.051	9.055	9.033	/	Pass
64QAM	50	0	9.036	9.030	9.025	/	Pass
Band: 2 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.568	13.582	13.552	/	Pass
16QAM	75	0	13.566	13.616	13.592	/	Pass
64QAM	75	0	13.554	13.615	13.605	/	Pass
Band: 2 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.031	18.104	18.056	/	Pass
16QAM	100	0	18.138	18.089	18.083	/	Pass



2.5.2 Test Graph



BV 7Layers Communications
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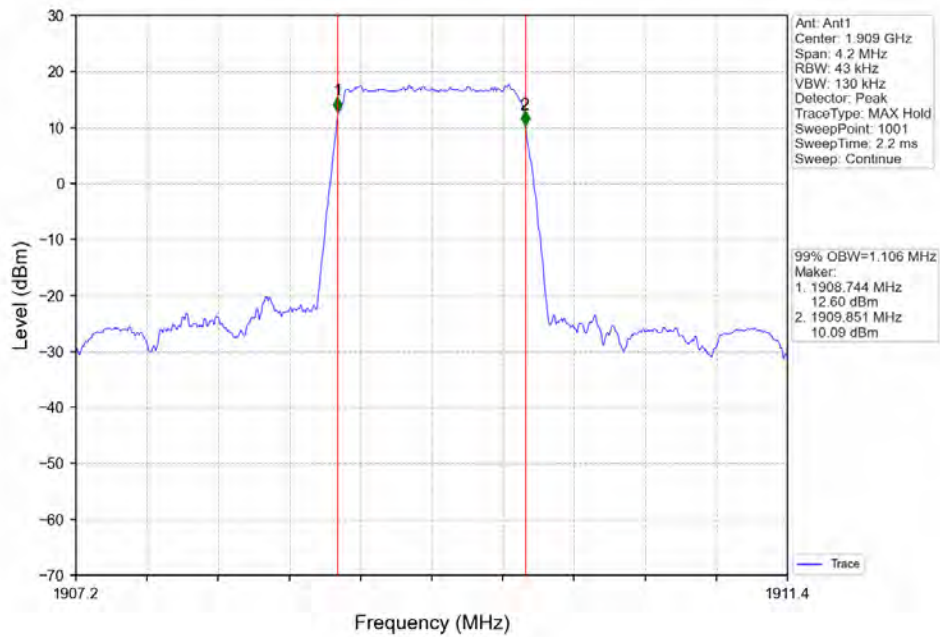
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Fax: +86 755 8869 6577

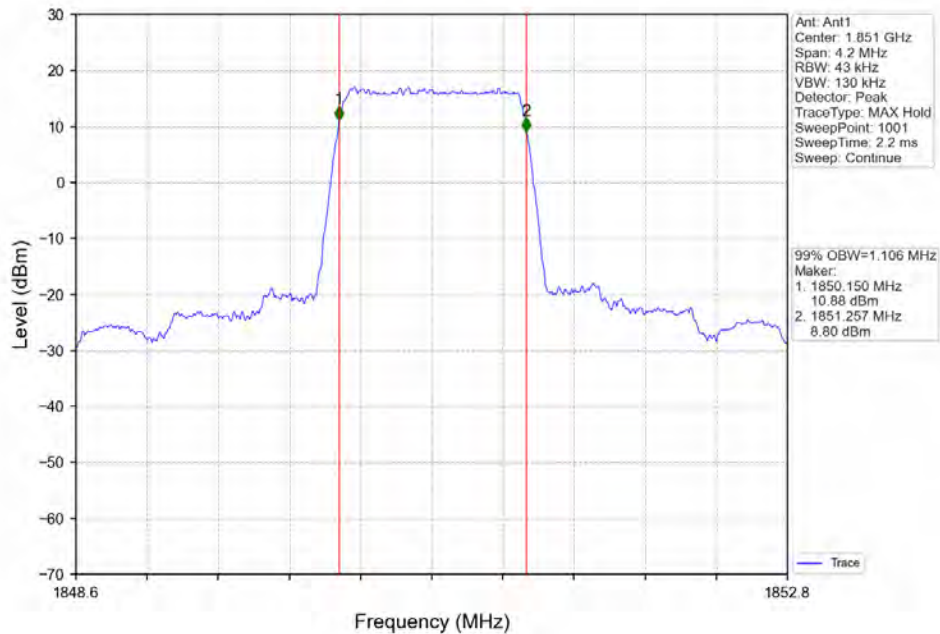
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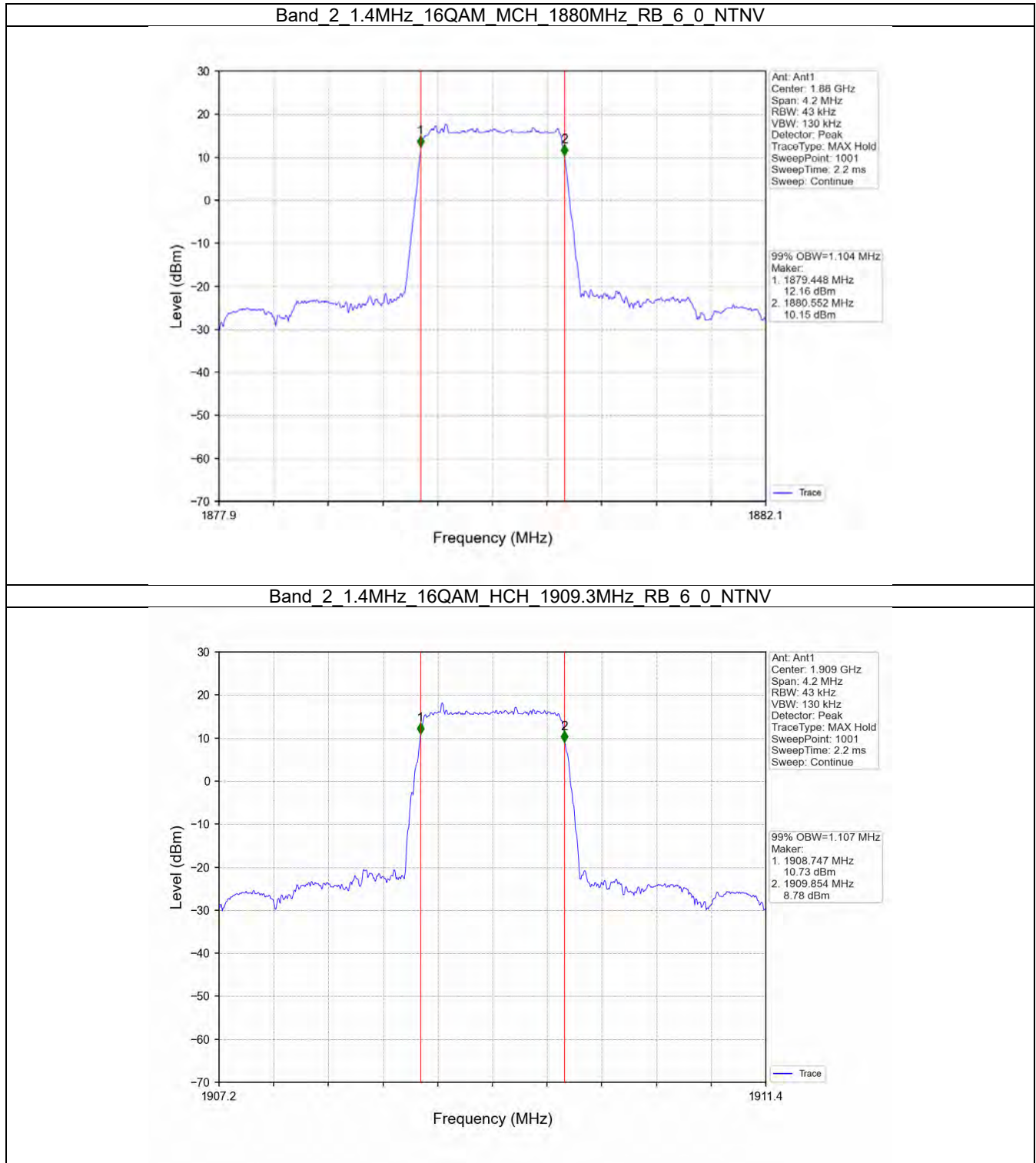


Band 2 1.4MHz QPSK HCH 1909.3MHz RB_6_0 NTN



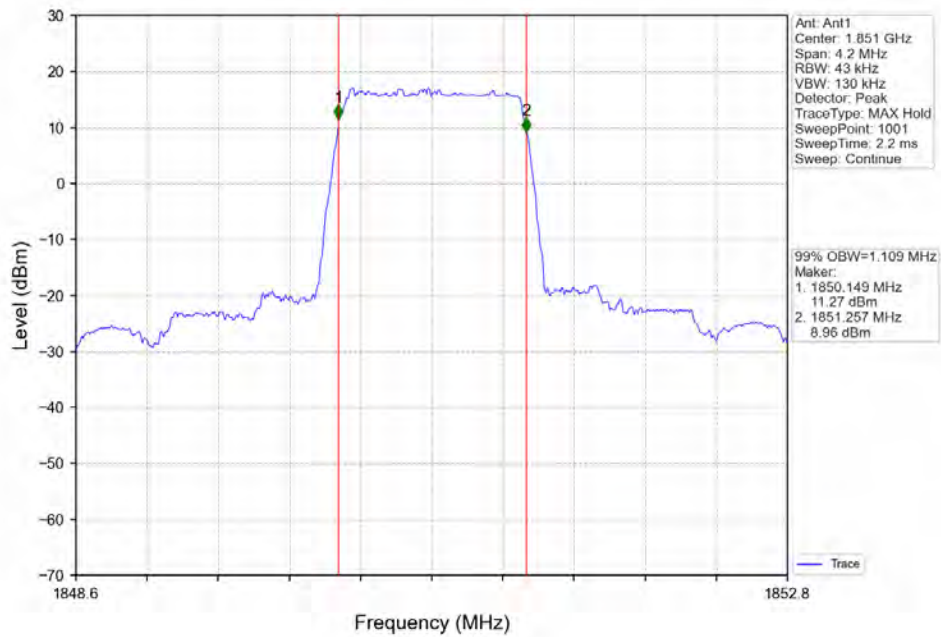
Band 2 1.4MHz 16QAM LCH 1850.7MHz RB_6_0 NTN



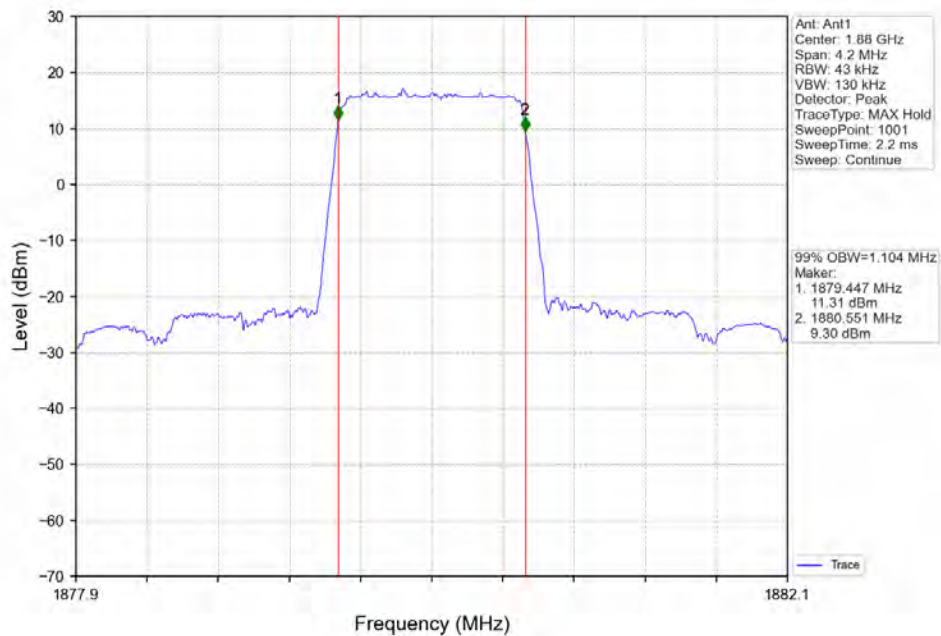


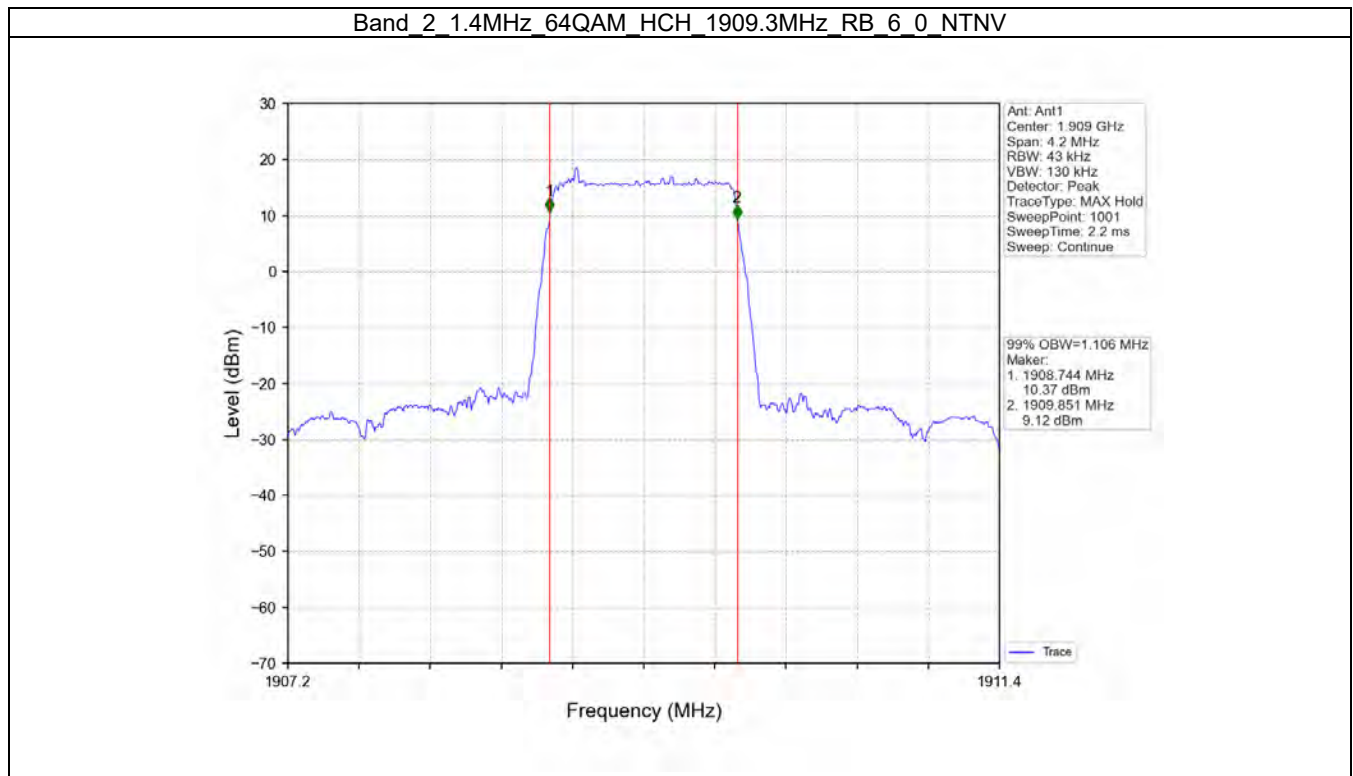


Band 2 1.4MHz 64QAM LCH 1850.7MHz RB 6 0 NTN



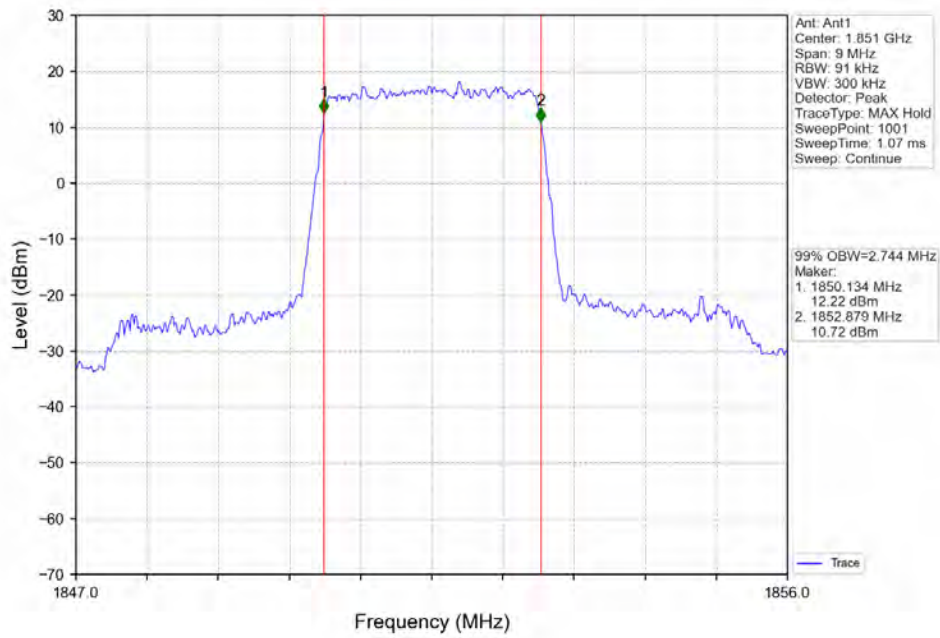
Band 2 1.4MHz 64QAM MCH 1880MHz RB 6 0 NTN



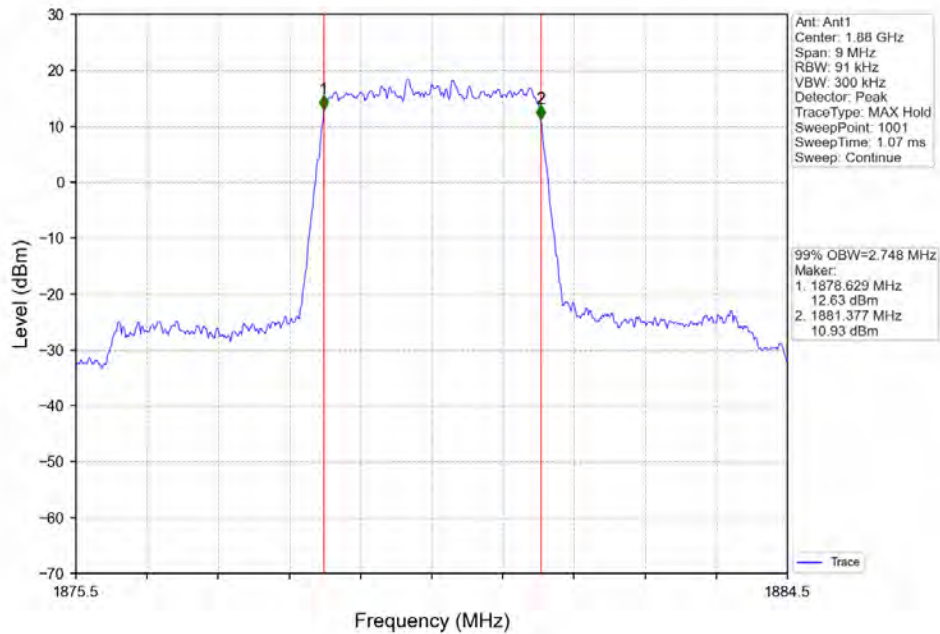


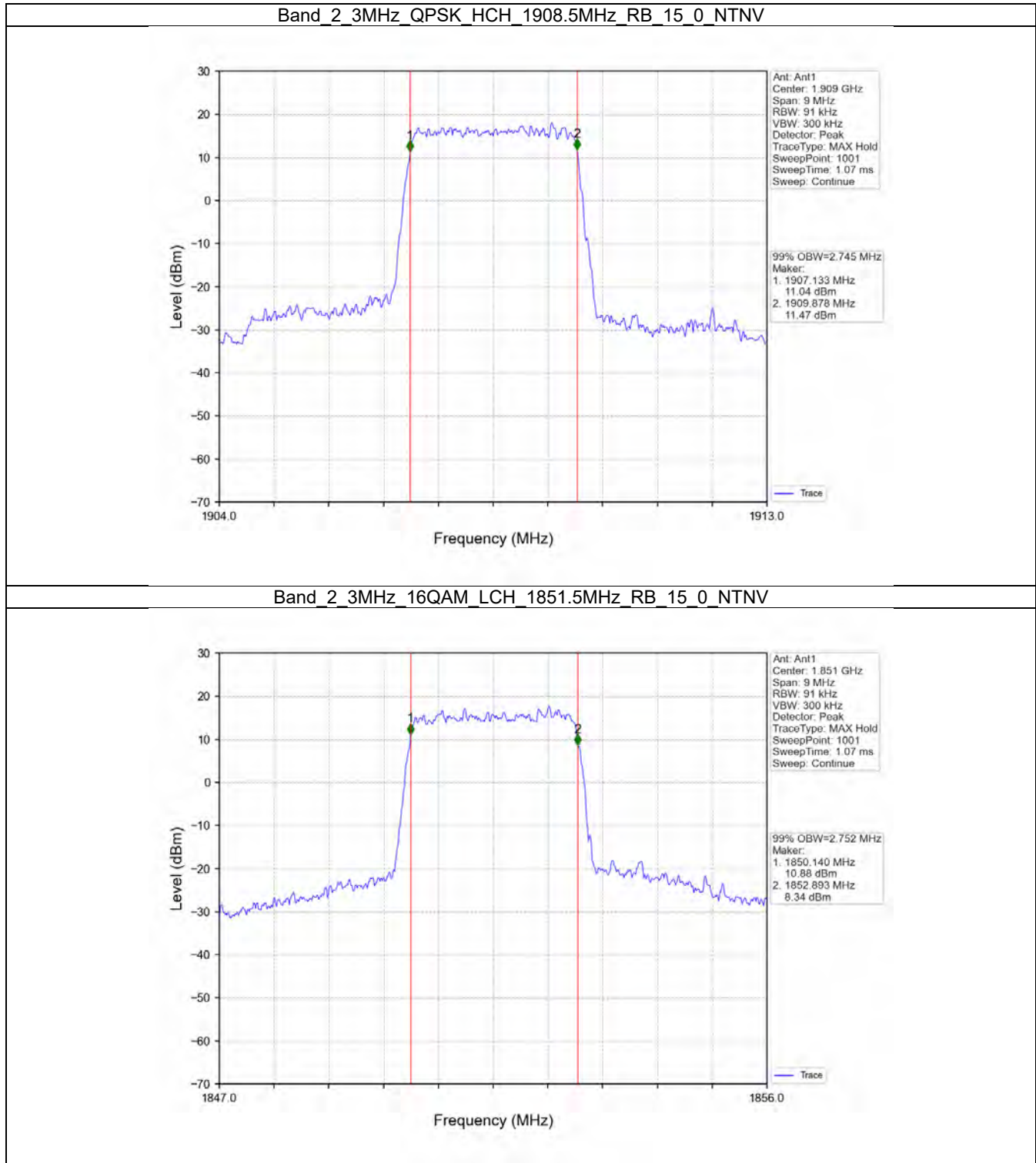


Band_2_3MHz_QPSK_LCH_1851.5MHz_RB_15_0_NTNV



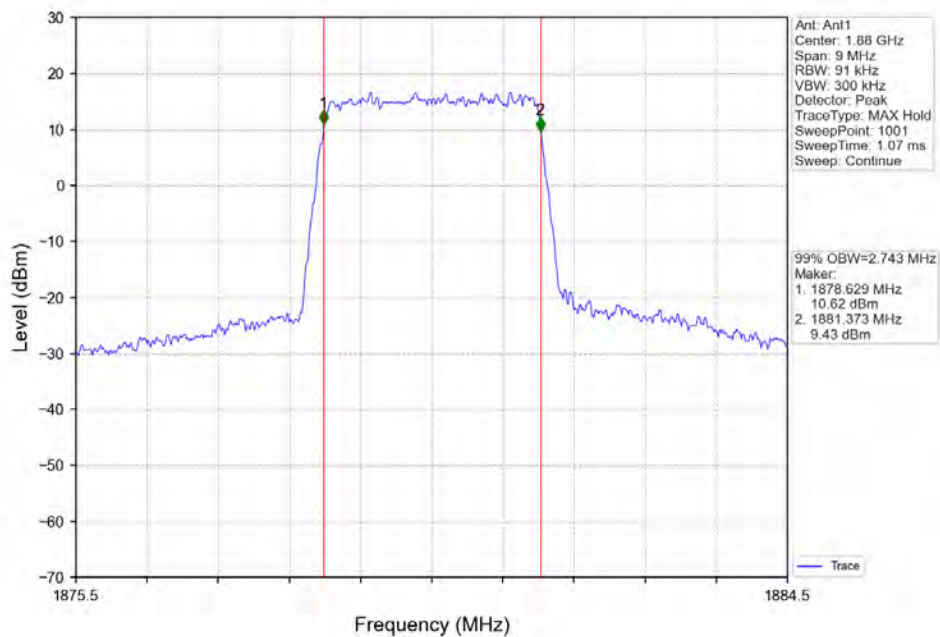
Band_2_3MHz_QPSK_MCH_1880MHz_RB_15_0_NTNV



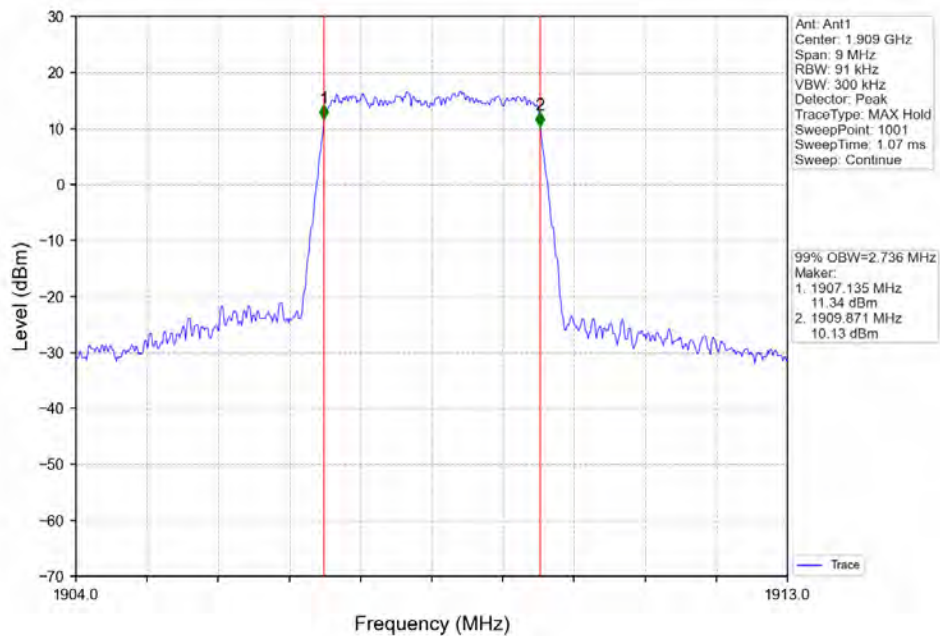




Band 2 3MHz 16QAM MCH 1880MHz RB 15 0 NTNV

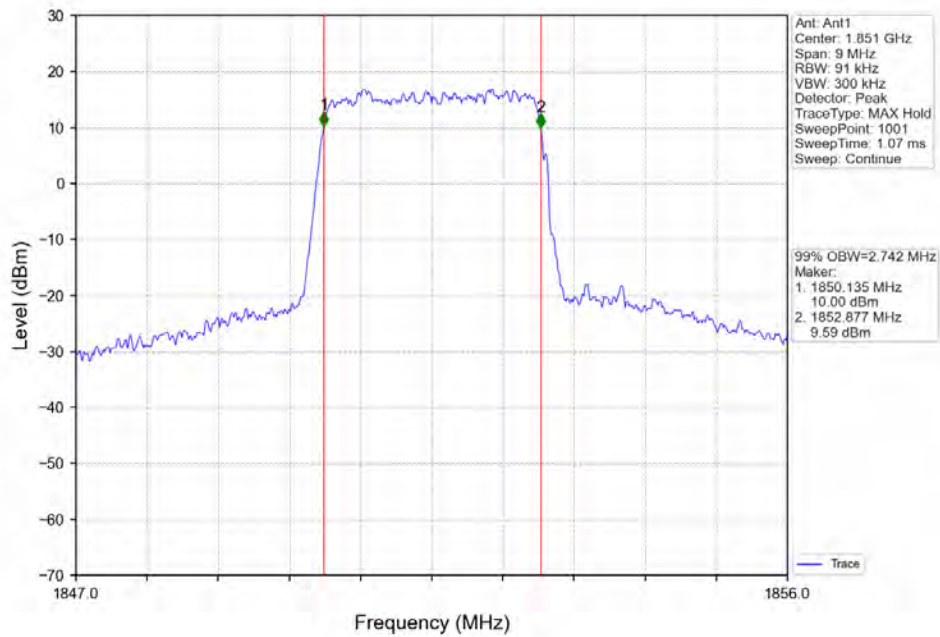


Band 2 3MHz 16QAM HCH 1908.5MHz RB 15 0 NTNV

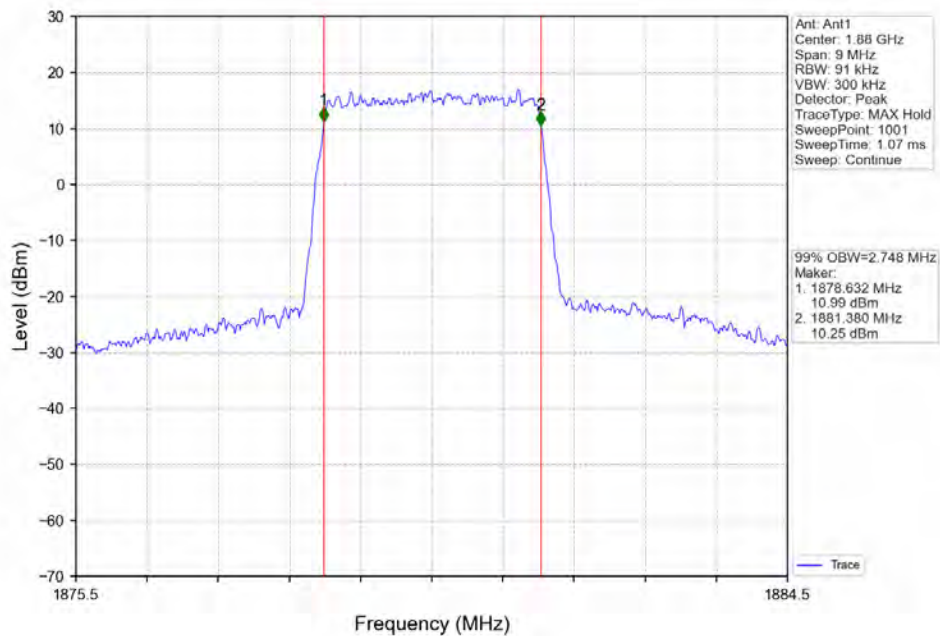


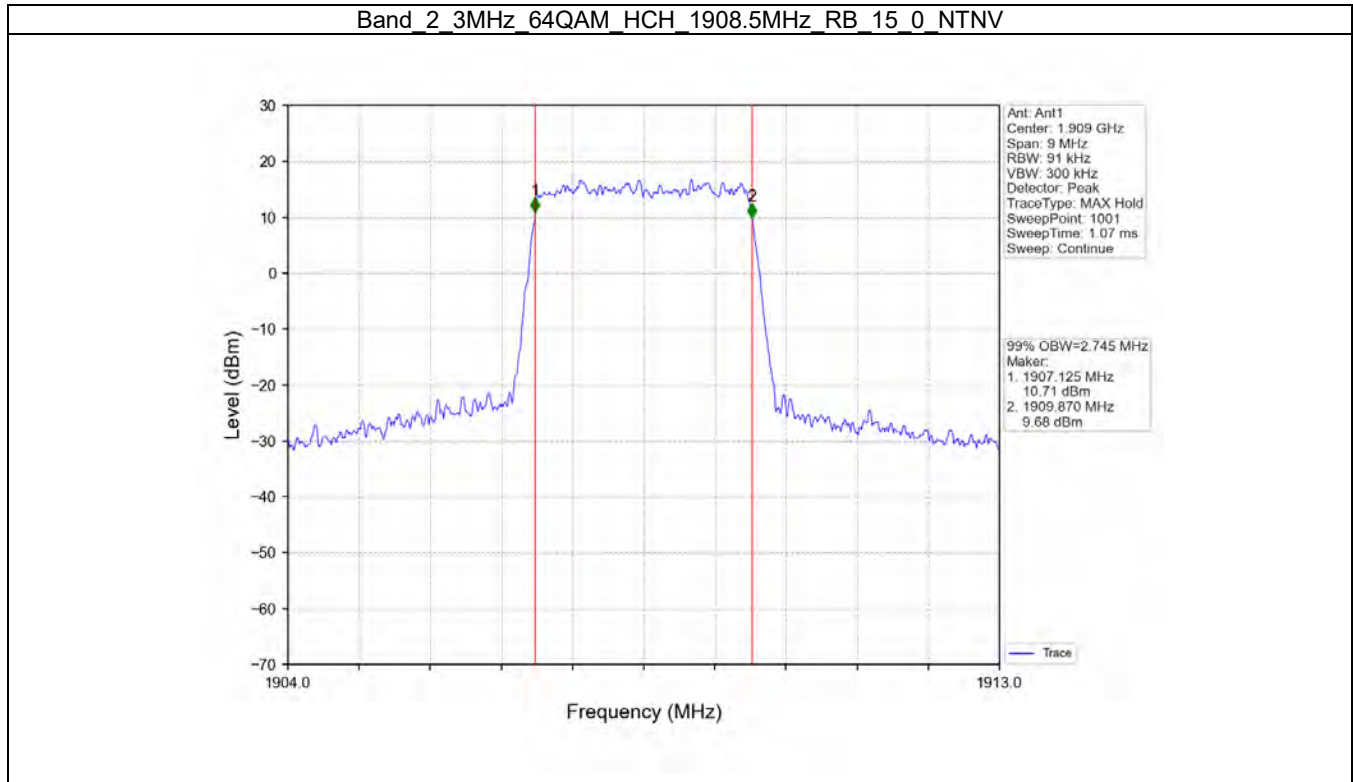


Band_2_3MHz_64QAM_LCH_1851.5MHz_RB_15_0_NTNV



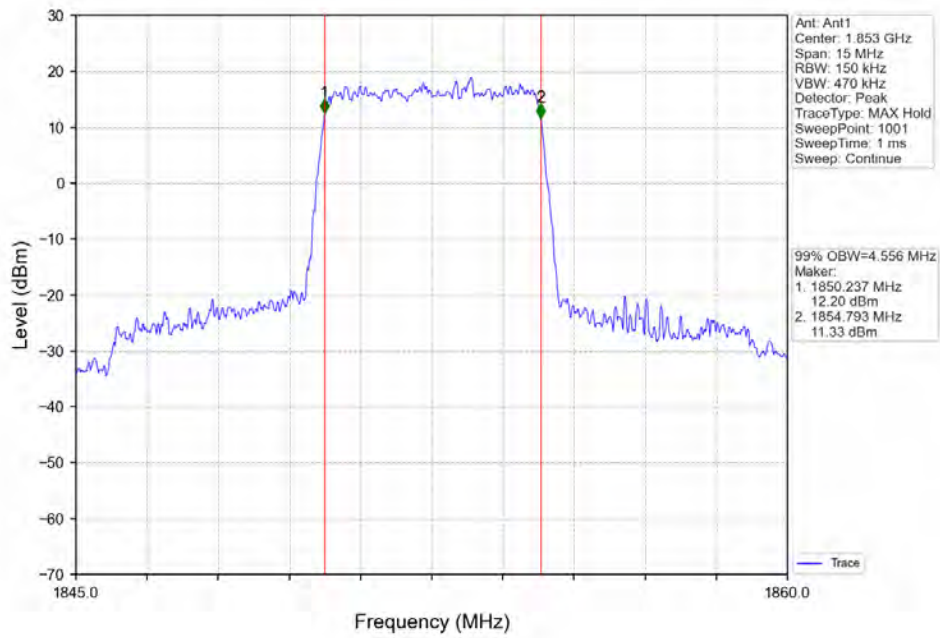
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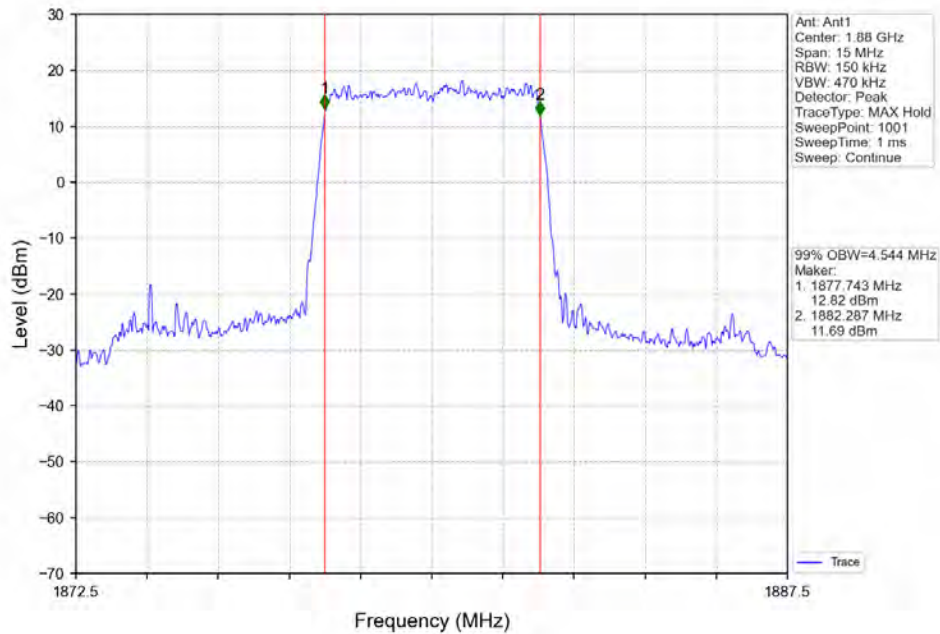


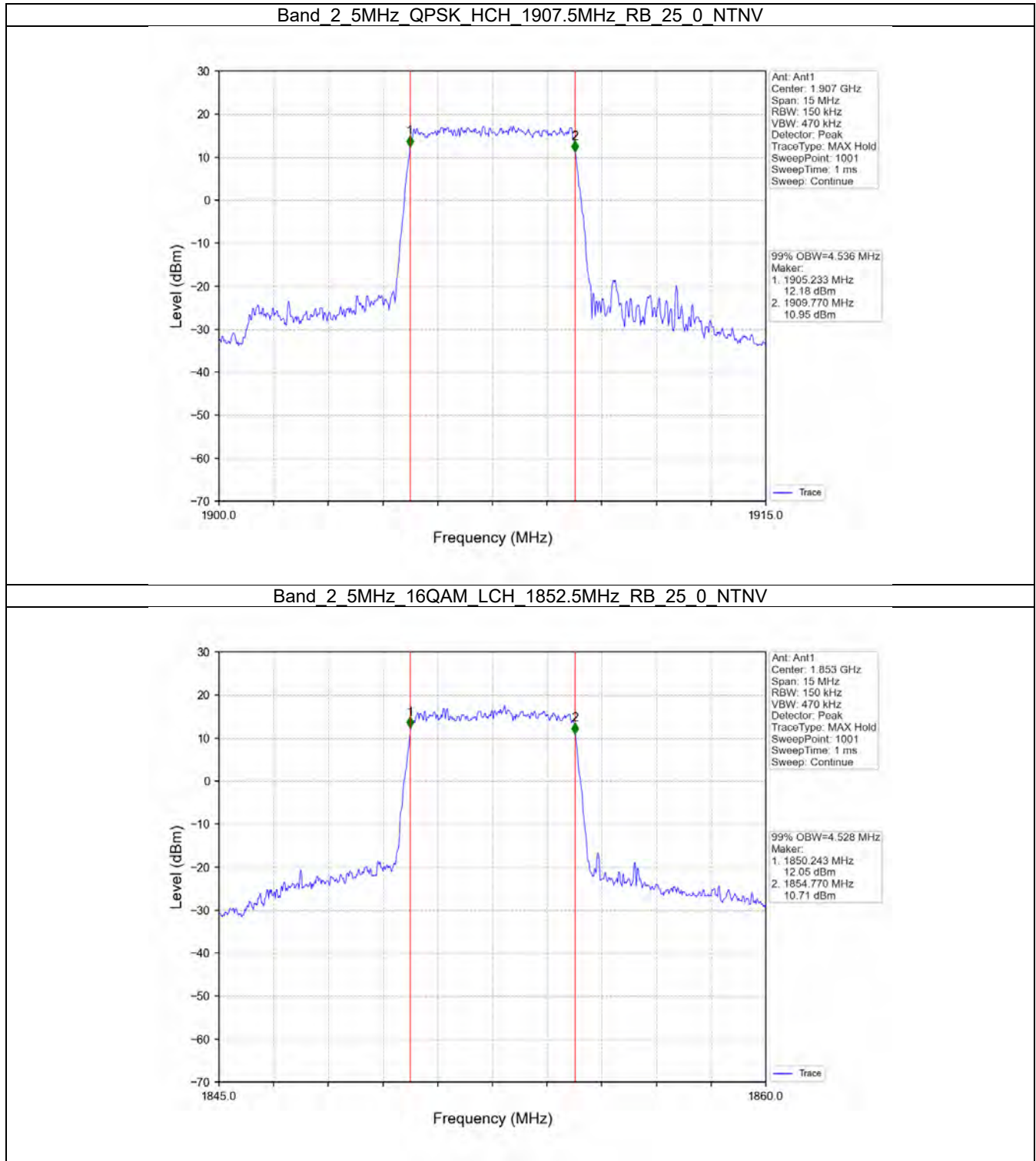


Band_2_5MHz_QPSK_LCH_1852.5MHz_RB_25_0_NTNV



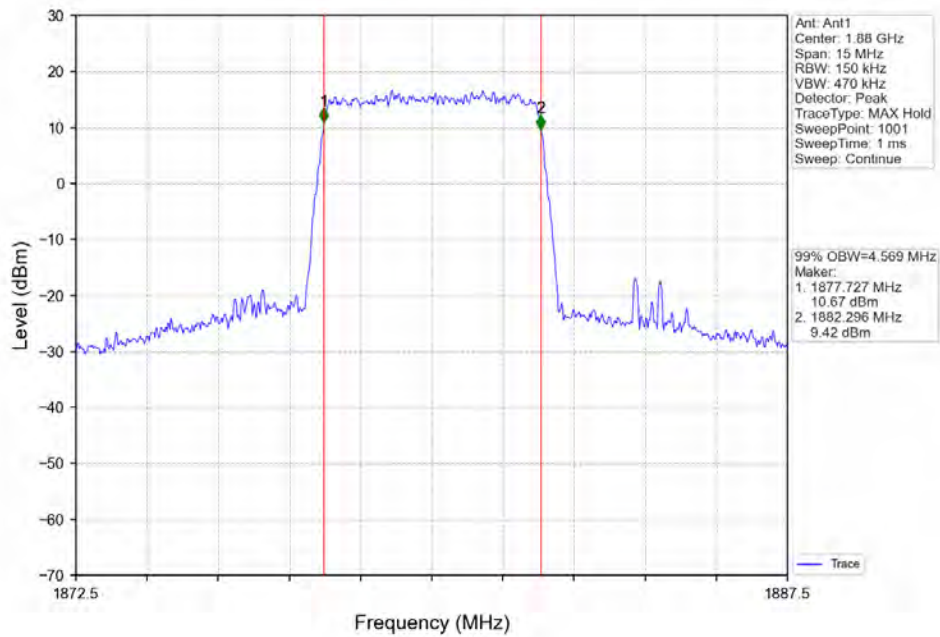
Band 2 5MHz QPSK MCH 1880MHz RB 25 0 NTNv



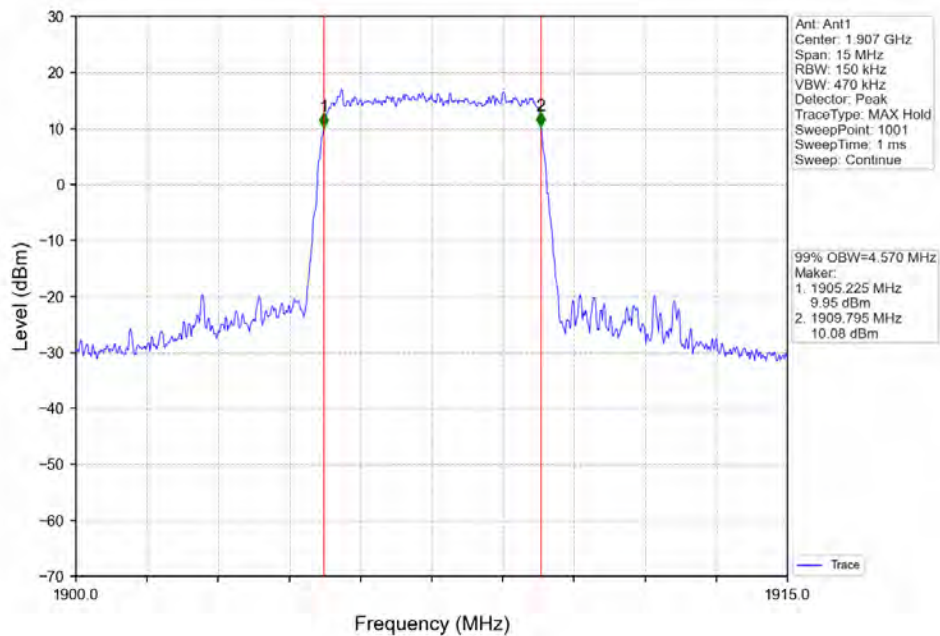




Band 2 5MHz 16QAM MCH 1880MHz RB 25 0 NTNV

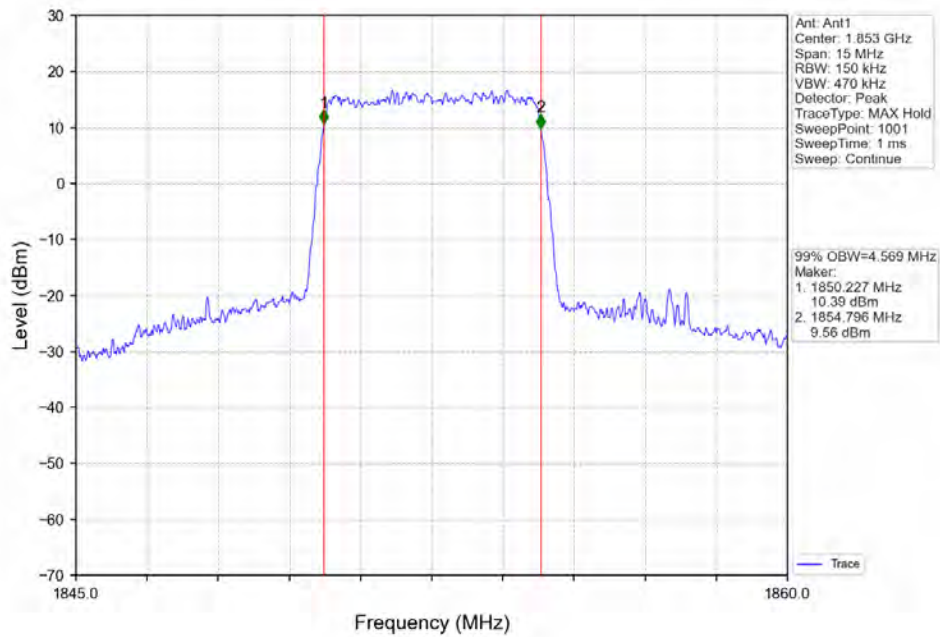


Band 2 5MHz 16QAM HCH 1907.5MHz RB 25 0 NTNV

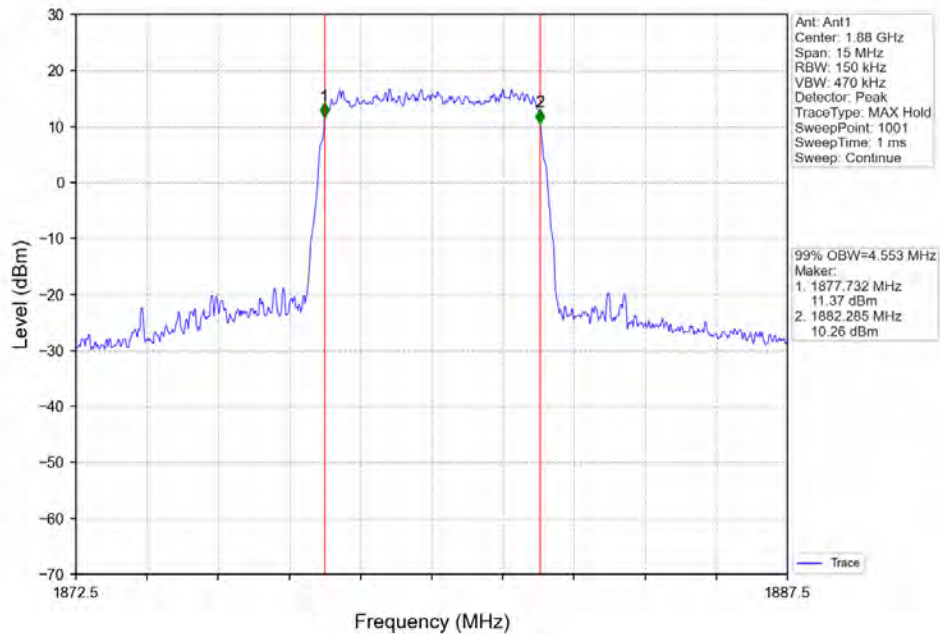


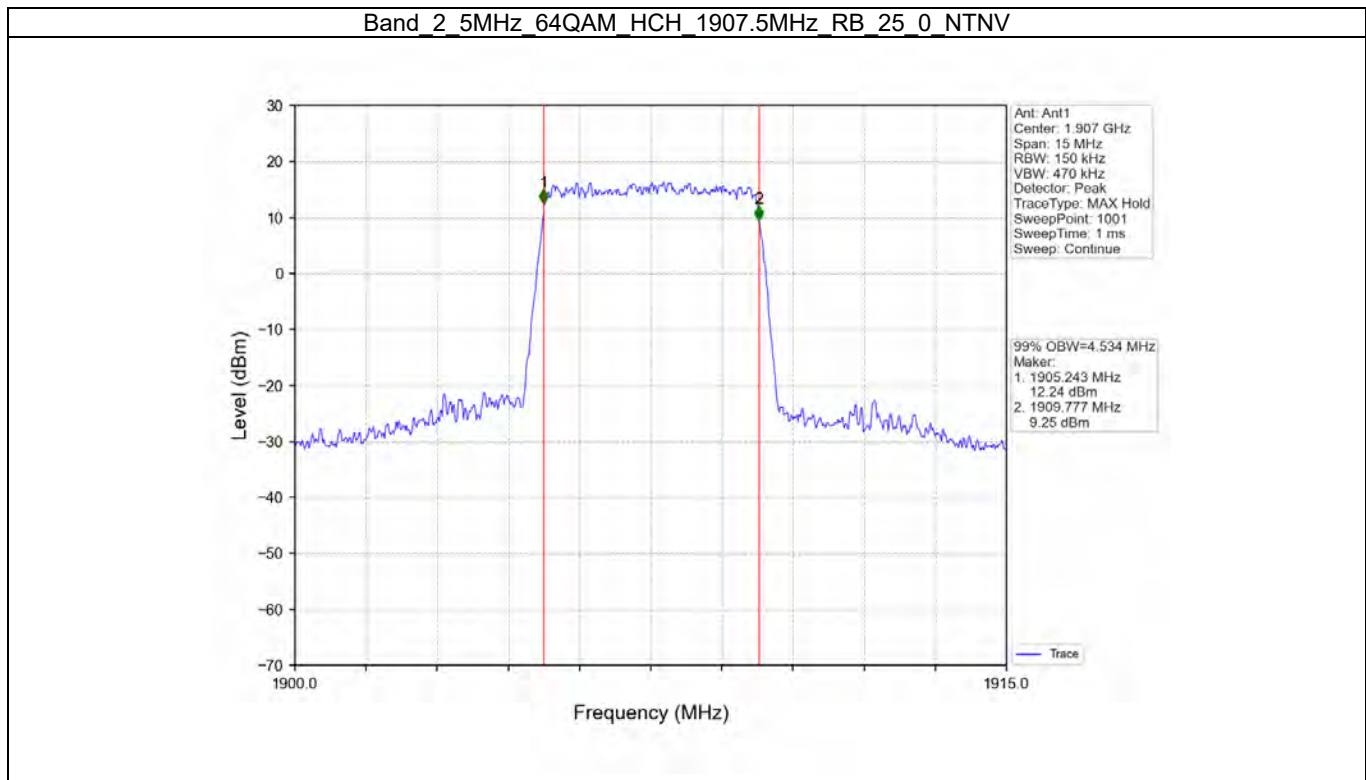


Band 2 5MHz 64QAM LCH 1852.5MHz RB 25_0 NTN



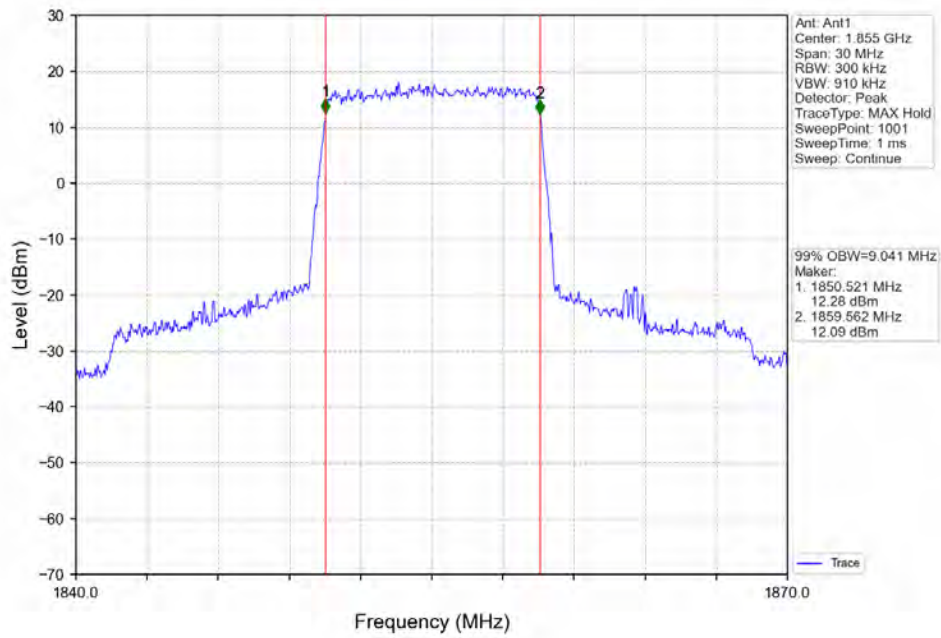
Band 2 5MHz 64QAM MCH 1880MHz RB 25_0 NTN



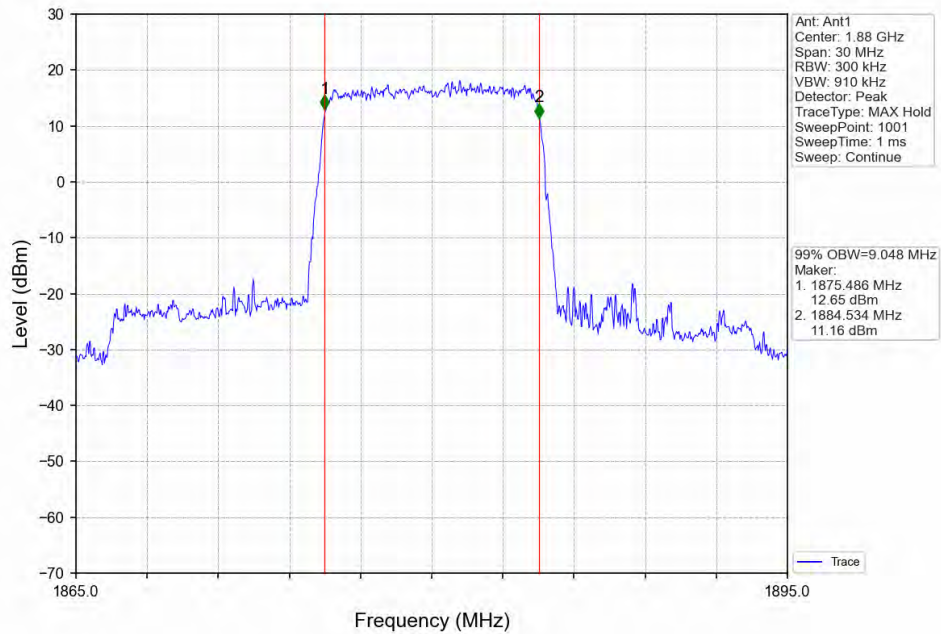




Band_2_10MHz_QPSK_LCH_1855MHz_RB_50_0_NTNV

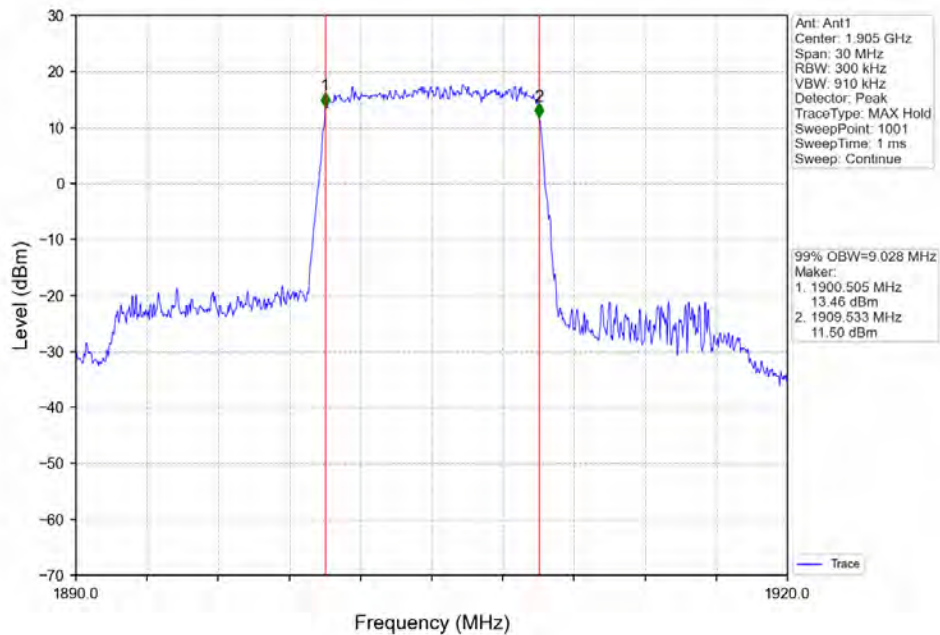


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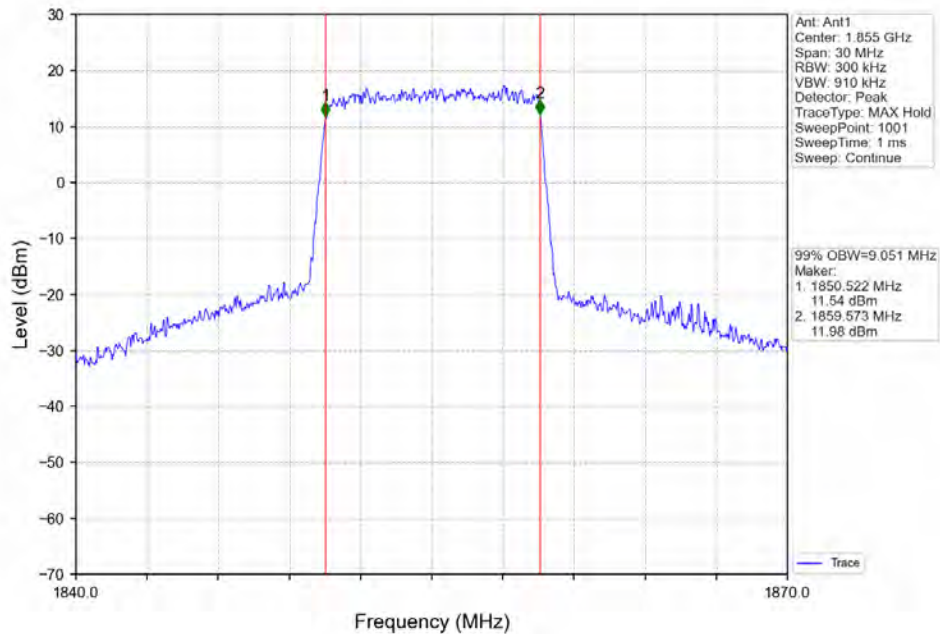




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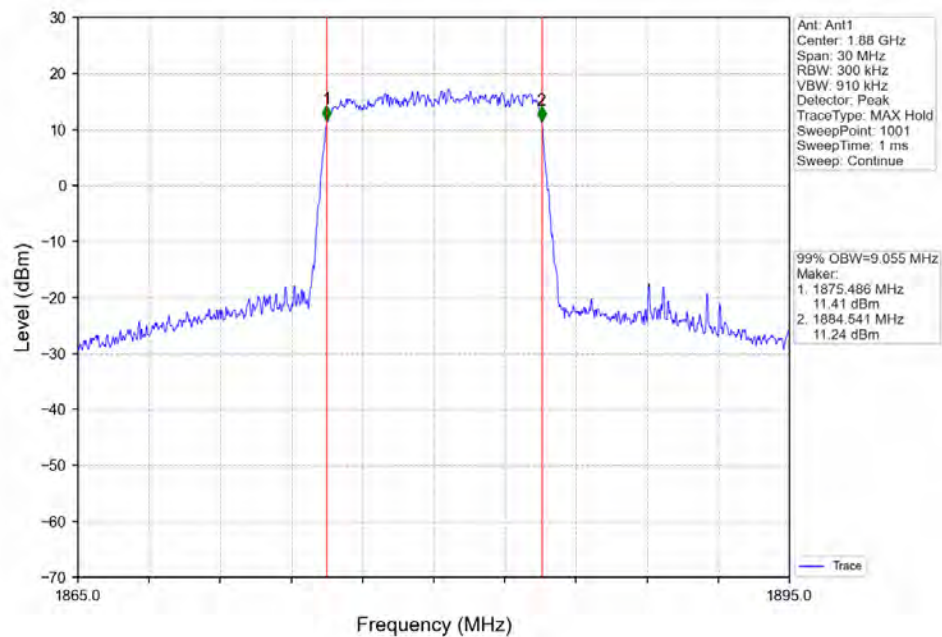


Band 2_10MHz_16QAM_LCH_1855MHz_RB_50_0_NTNV

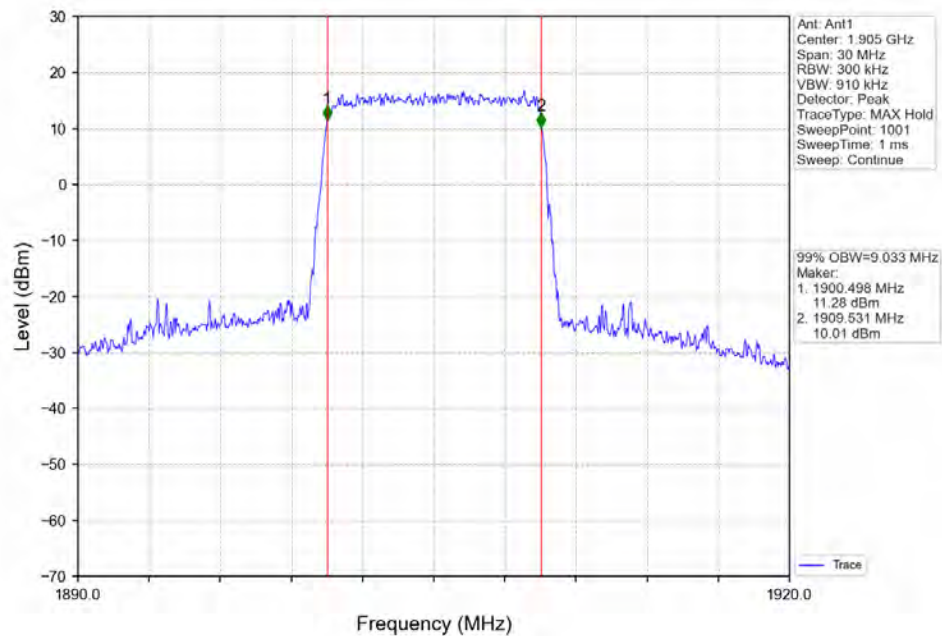


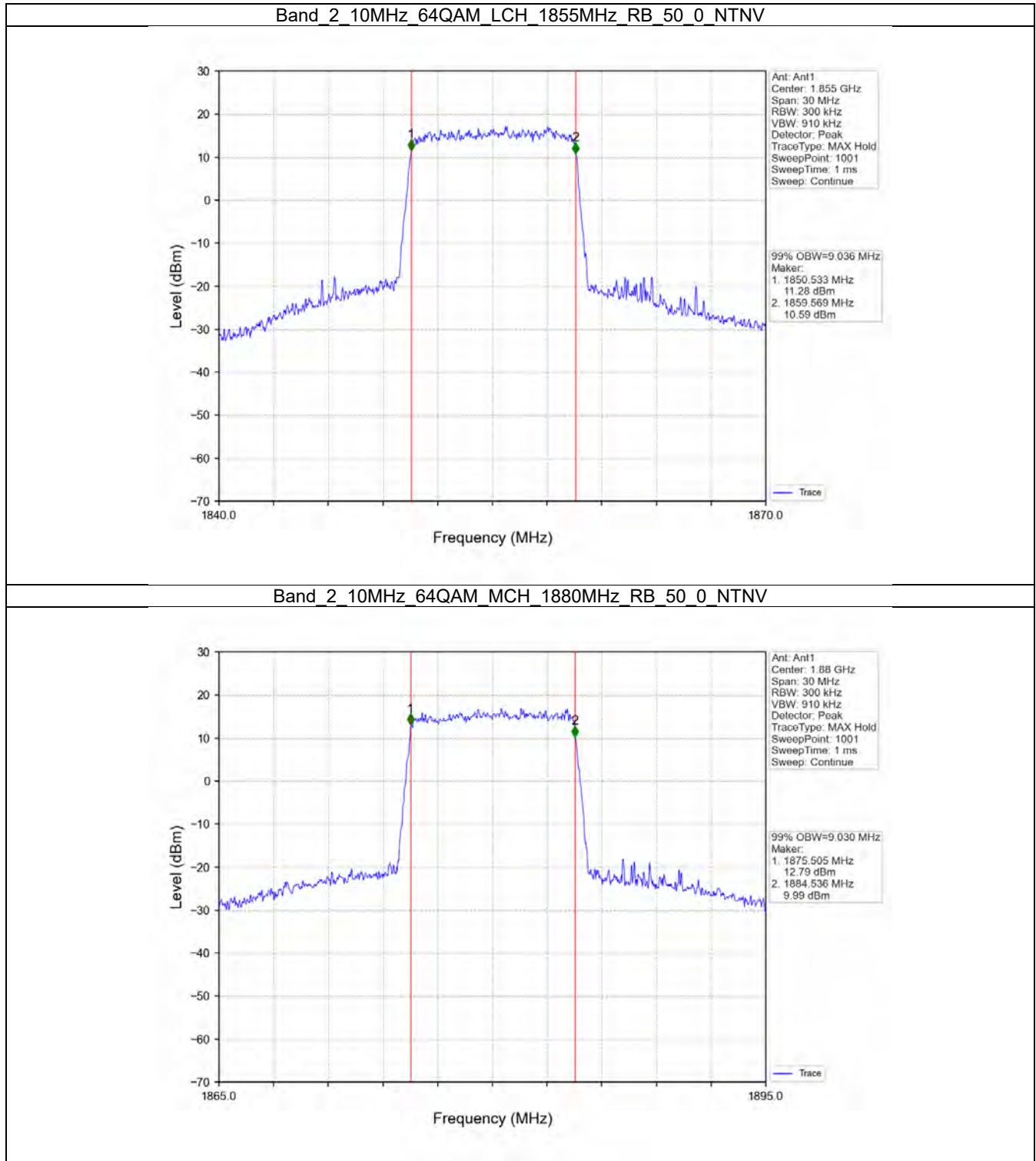


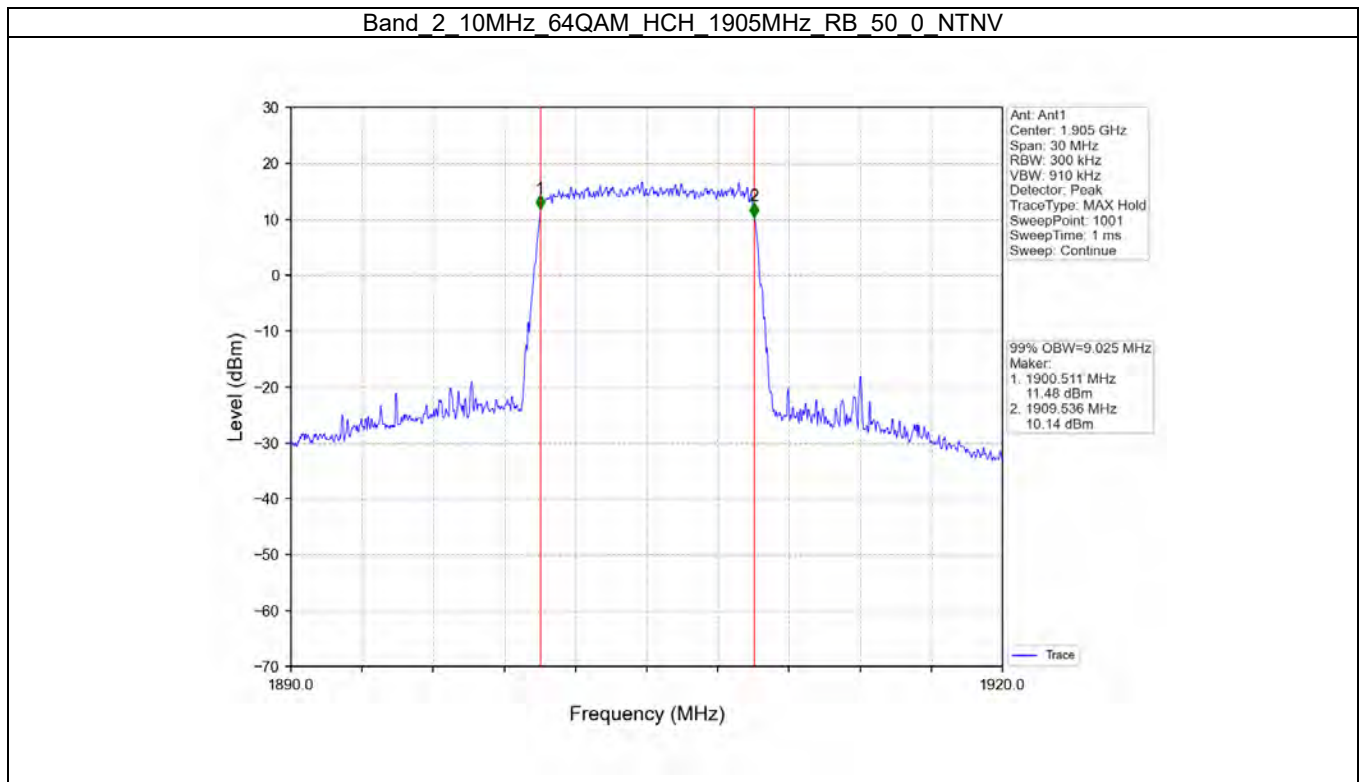
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Band_2_10MHz_16QAM_HCH_1905MHz_RB_50_0_NTNV

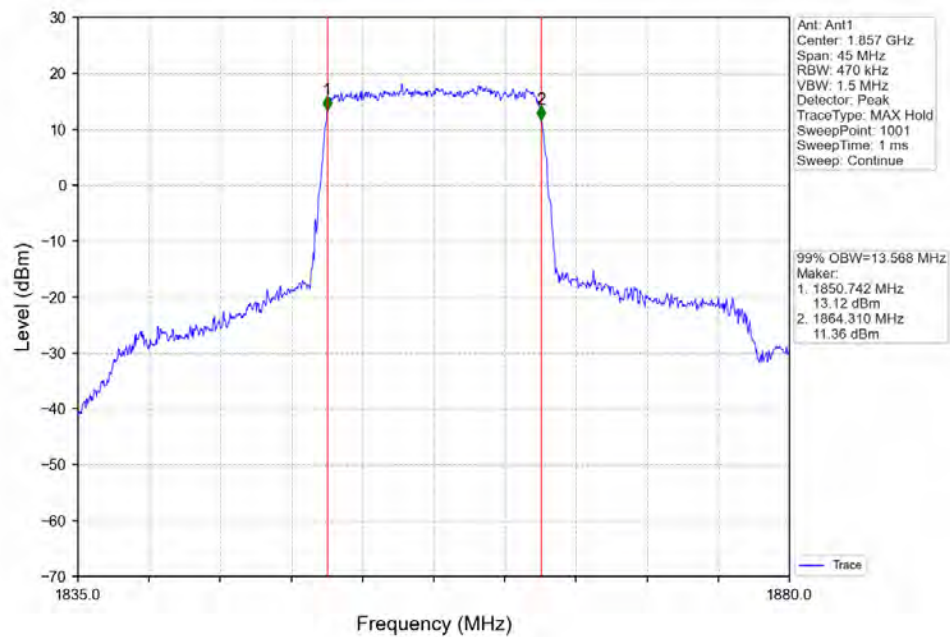




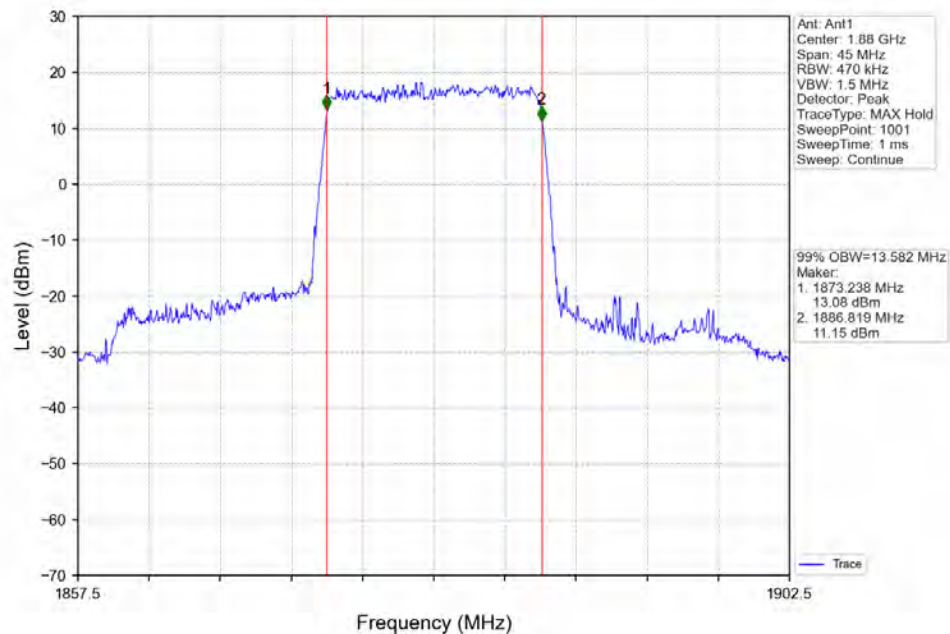




Band_2_15MHz_QPSK_LCH_1857.5MHz_RB_75_0_NTNV

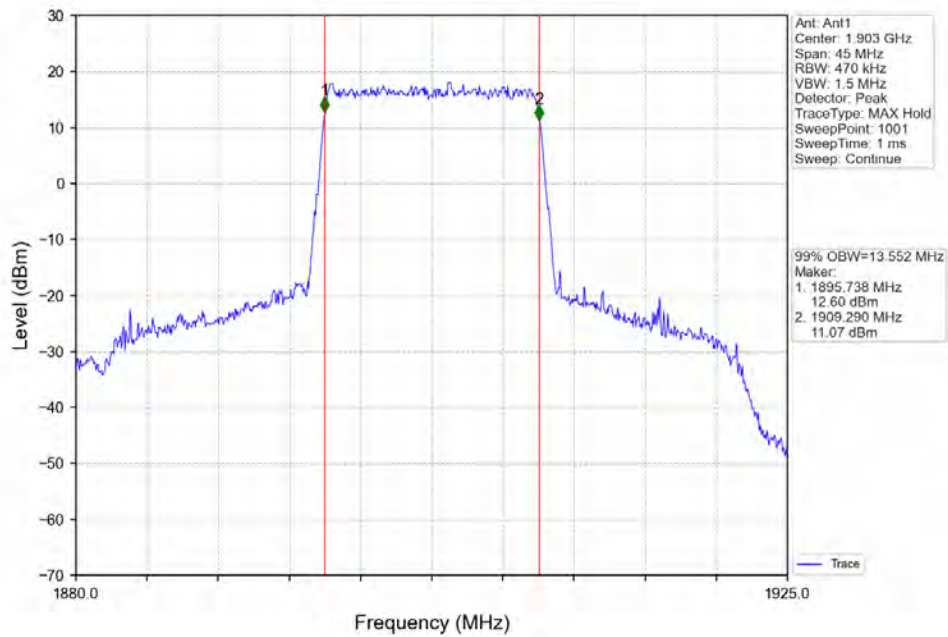


Band_2_15MHz_QPSK_MCH_1880MHz_RB_75_0_NTNV

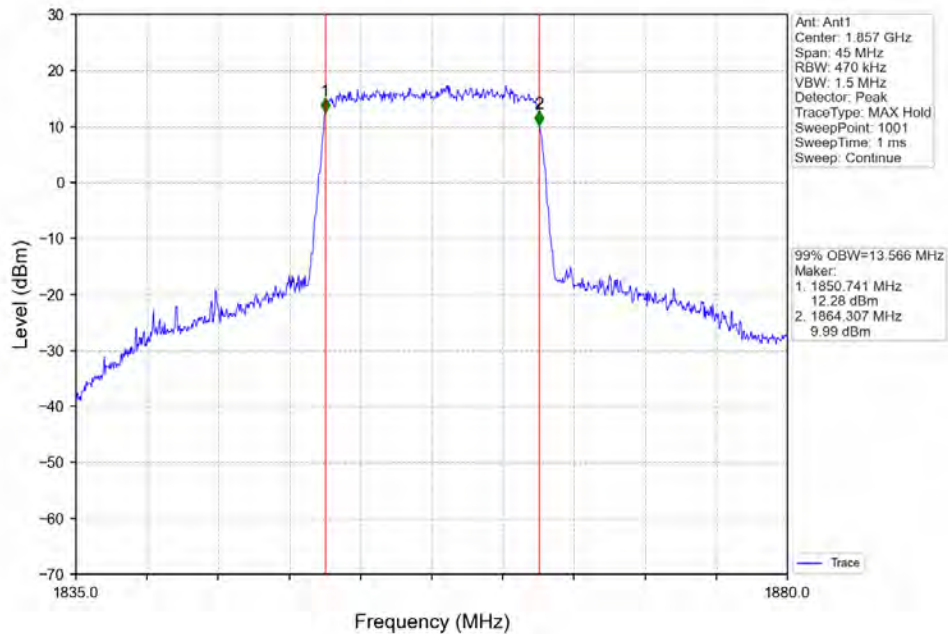




Band 2 15MHz QPSK HCH 1902.5MHz RB 75_0 NTN

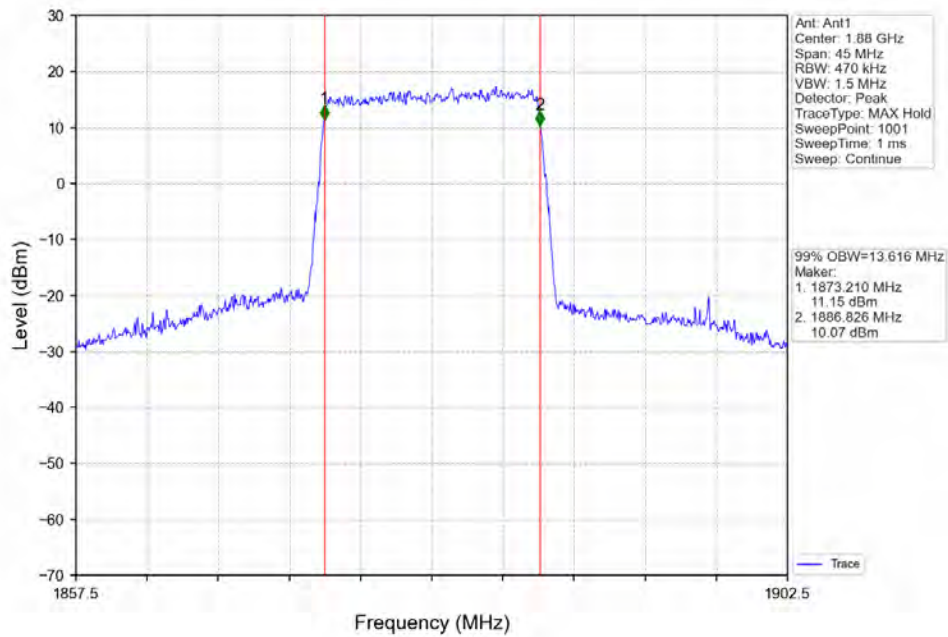


Band 2 15MHz 16QAM LCH 1857.5MHz RB 75_0 NTN

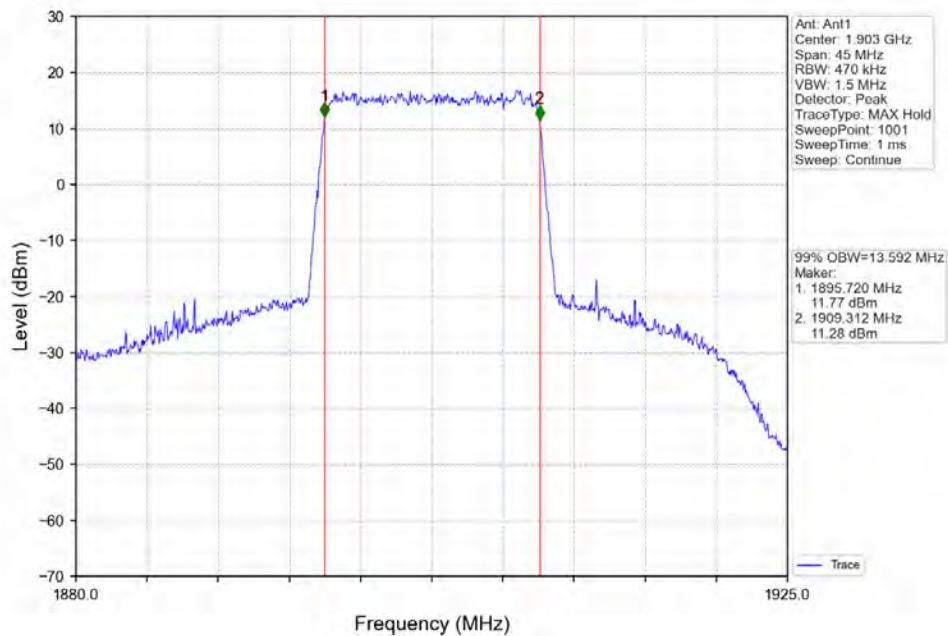




Band 2 15MHz 16QAM MCH 1880MHz RB 75 0 NTNV

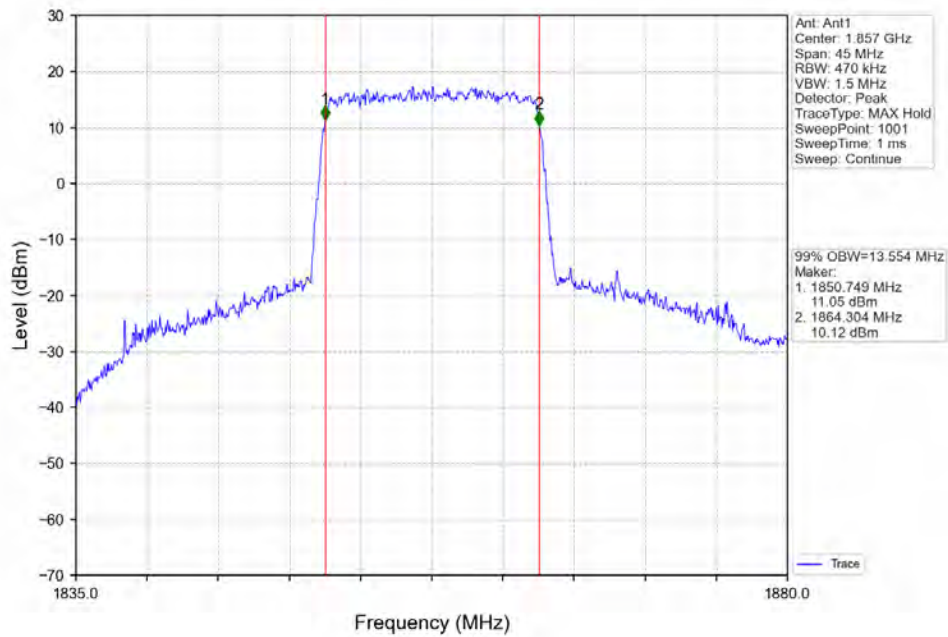


Band 2 15MHz 16QAM HCH 1902.5MHz RB 75 0 NTNV

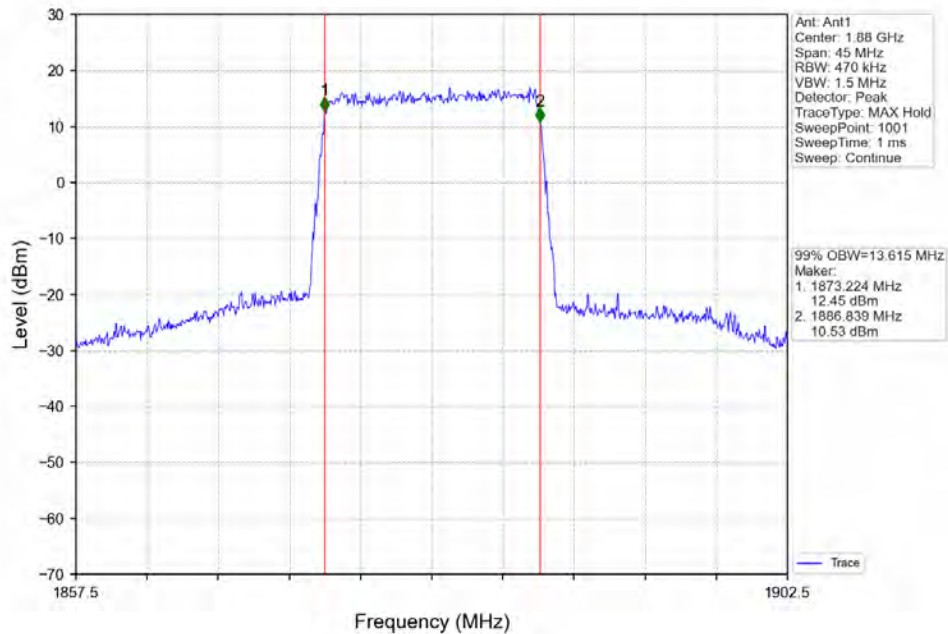


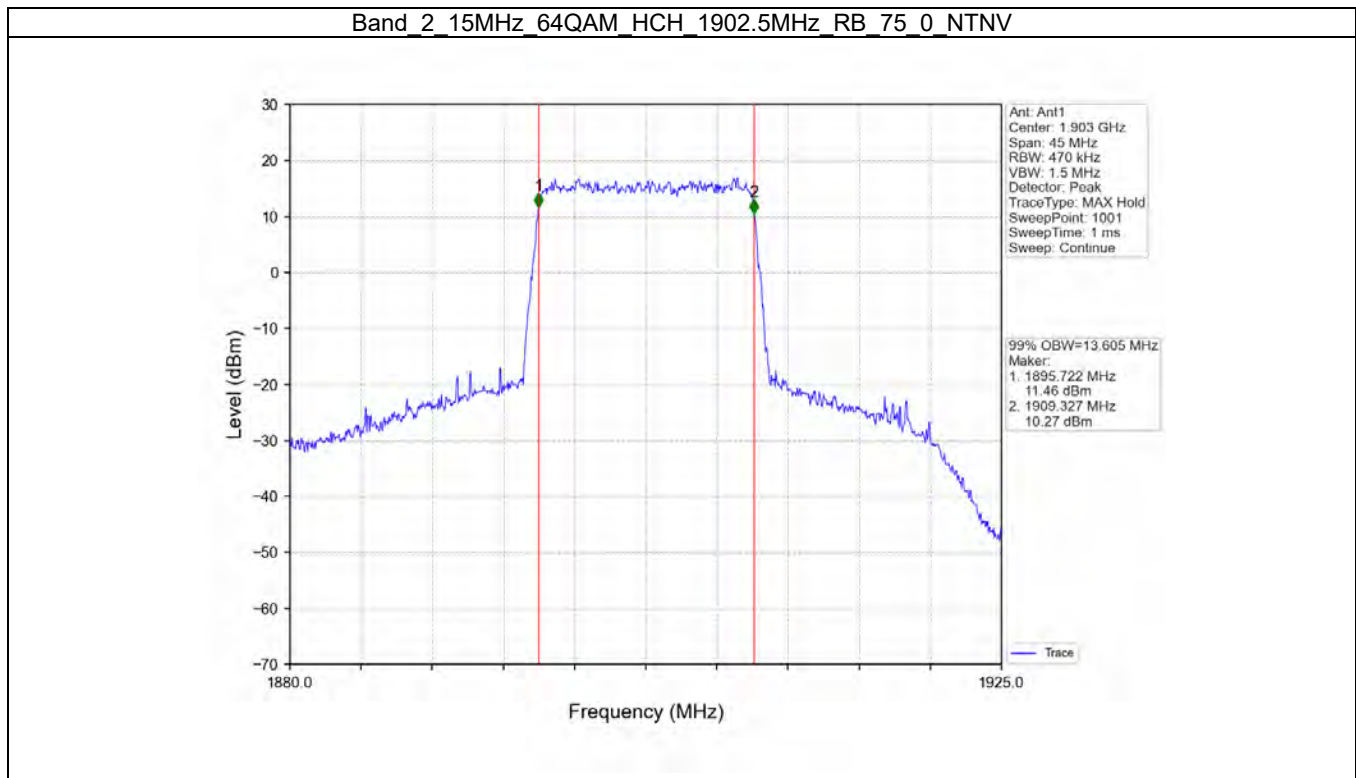


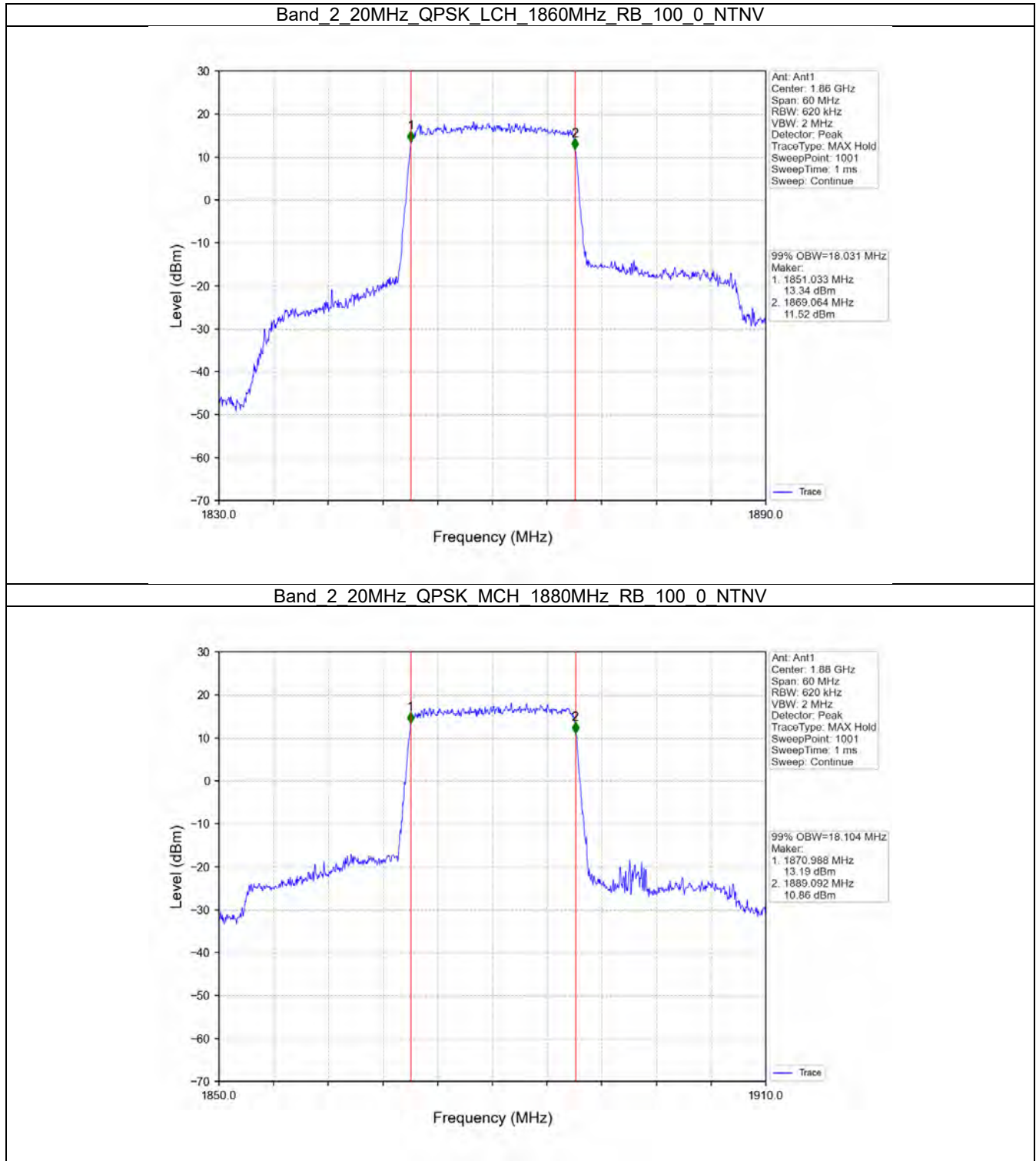
Band 2_15MHz_64QAM_LCH_1857.5MHz_RB_75_0_NTNV



Band 2_15MHz_64QAM_MCH_1880MHz_RB_75_0_NTNV

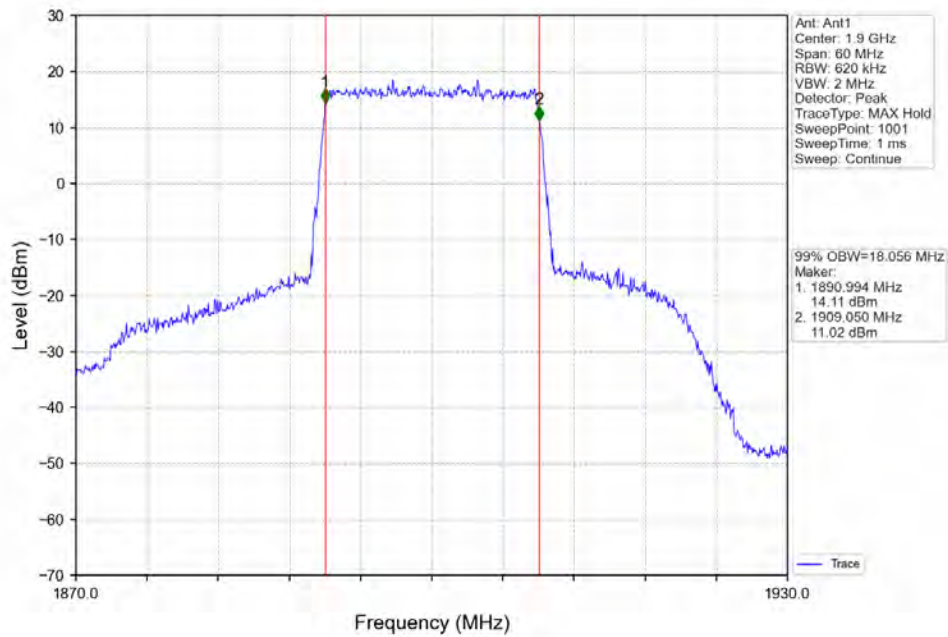




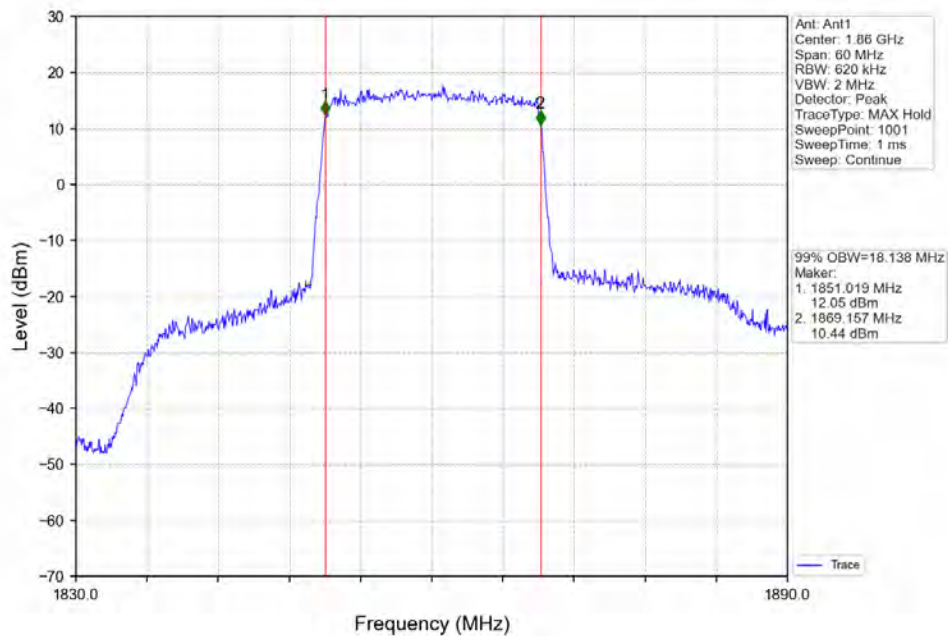




Band 2 20MHz QPSK HCH 1900MHz RB 100_0 NTNV

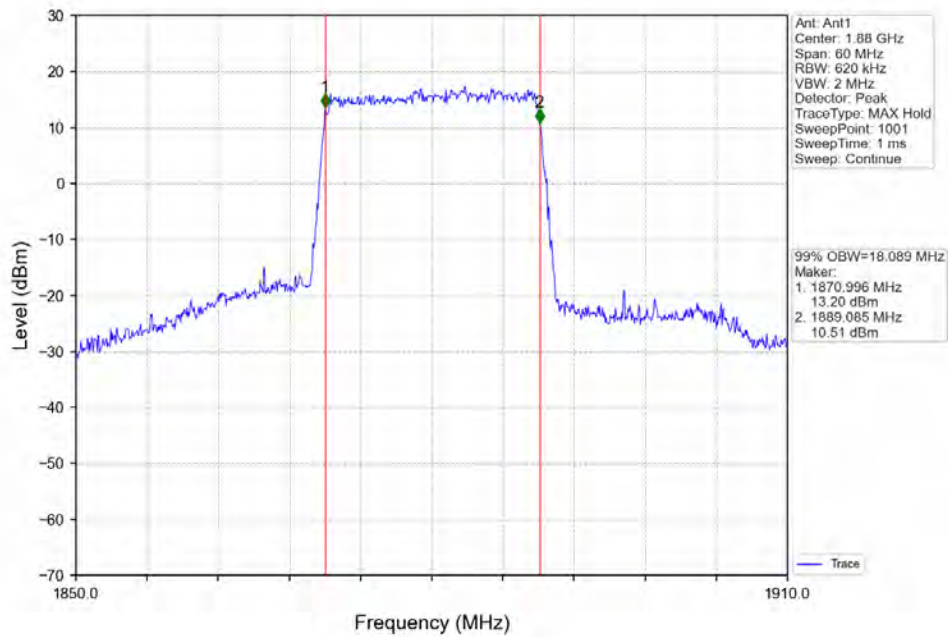


Band 2 20MHz 16QAM LCH 1860MHz RB 100_0 NTNV

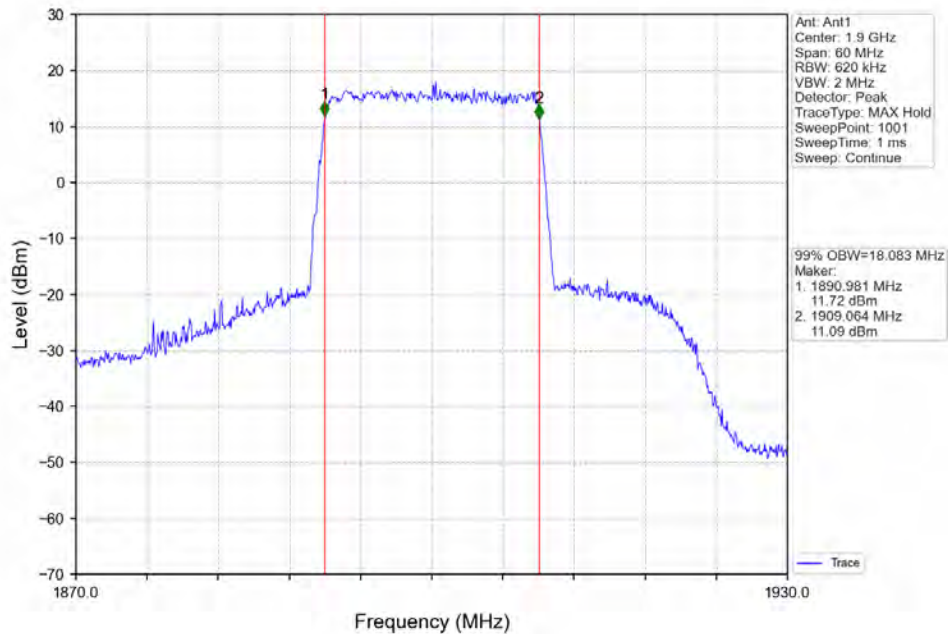




Band 2 20MHz 16QAM MCH 1880MHz RB 100 0 NTN

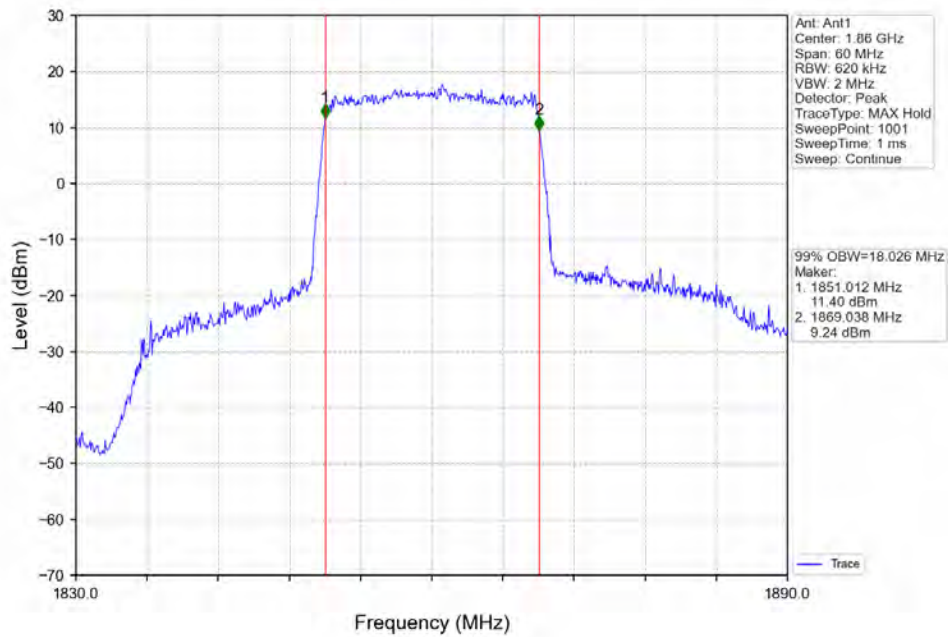


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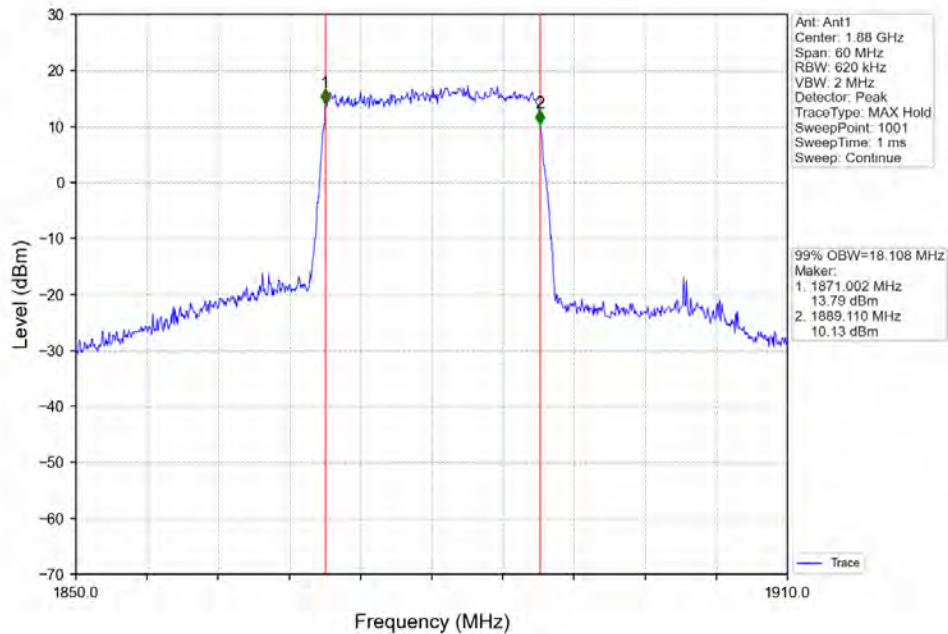


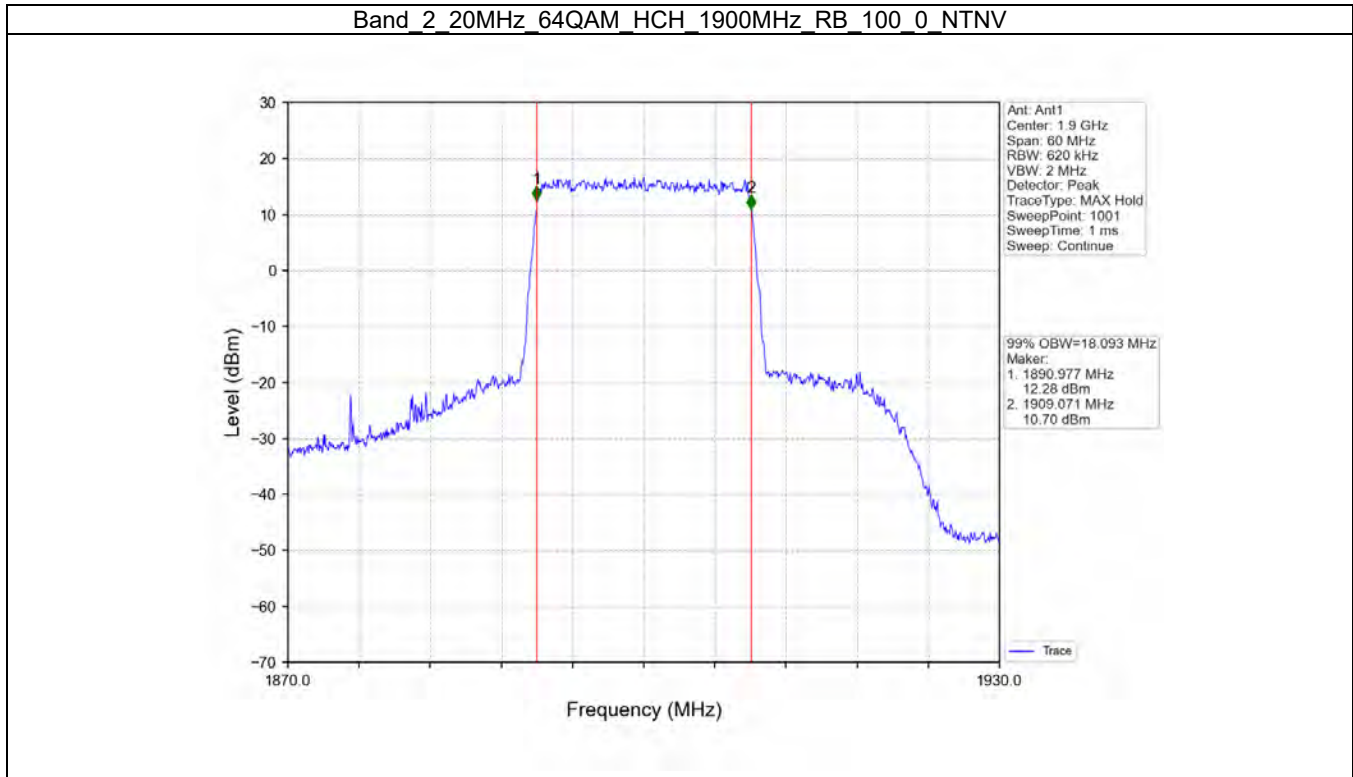


Band 2 20MHz 64QAM LCH 1860MHz RB 100 0 NTN



Band 2 20MHz 64QAM MCH 1880MHz RB 100 0 NTN







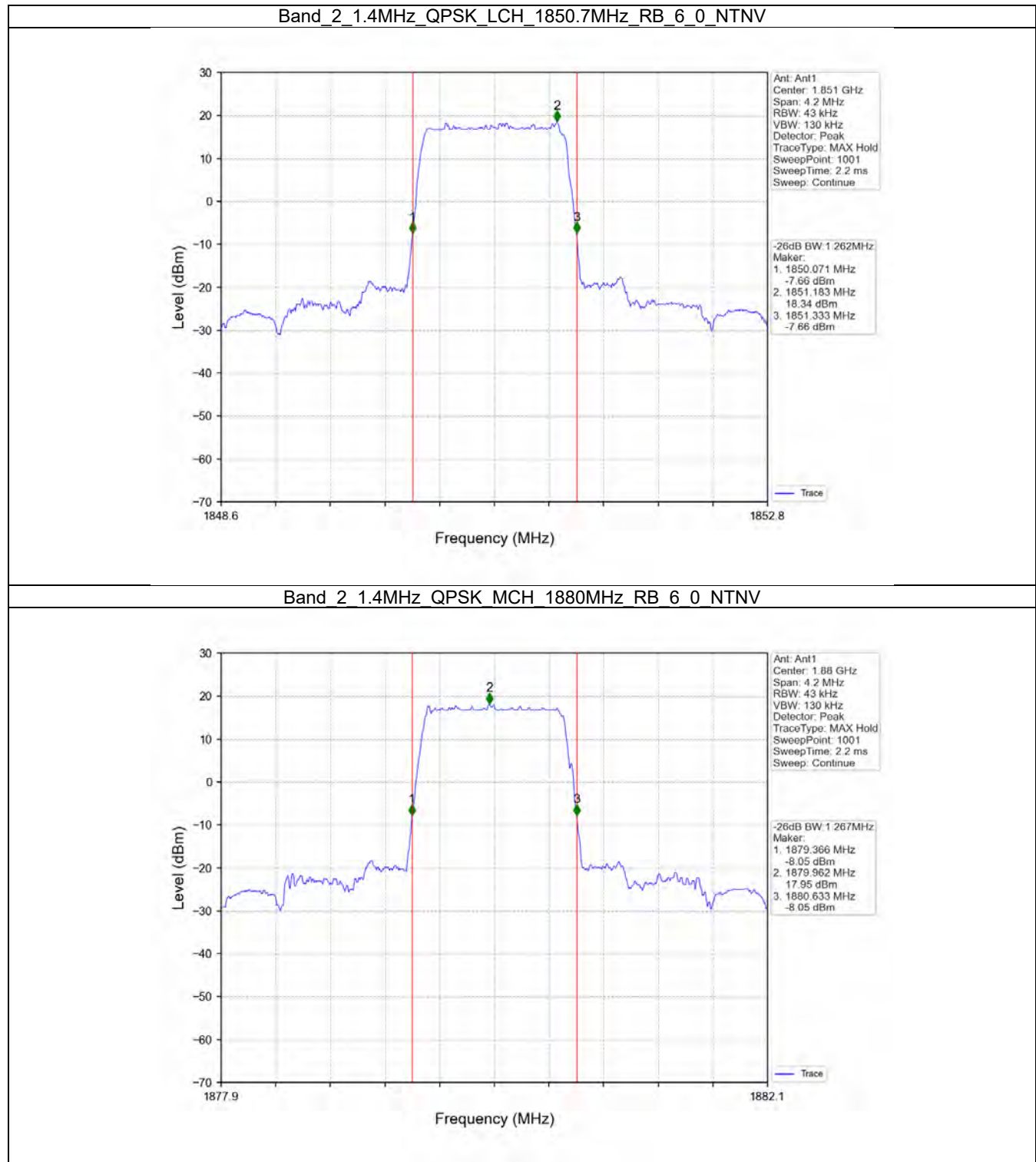
2.6 LTE Band 2 26DB

2.6.1 Test Result

Band: 2 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.262	1.267	1.264	/	Pass
16QAM	6	0	1.270	1.252	1.269	/	Pass
64QAM	6	0	1.271	1.254	1.257	/	Pass
Band: 2 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.073	3.060	3.050	/	Pass
16QAM	15	0	3.057	3.096	3.091	/	Pass
64QAM	15	0	3.059	3.057	3.075	/	Pass
Band: 2 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.045	5.001	5.074	/	Pass
16QAM	25	0	5.039	5.081	5.056	/	Pass
64QAM	25	0	5.076	5.060	5.043	/	Pass
Band: 2 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.972	9.997	10.011	/	Pass
16QAM	50	0	9.942	9.977	9.977	/	Pass
64QAM	50	0	9.925	9.967	10.020	/	Pass
Band: 2 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	15.039	15.048	14.963	/	Pass
16QAM	75	0	14.913	14.927	14.969	/	Pass
64QAM	75	0	14.901	14.975	14.985	/	Pass
Band: 2 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	19.830	19.863	19.905	/	Pass
16QAM	100	0	19.775	19.765	19.921	/	Pass
64QAM	100	0	19.768	19.751	19.786	/	Pass



2.6.2 Test Graph



BV 7Layers Communications
Technology (Shenzhen) Co. Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan
Avenue, North Area, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, China

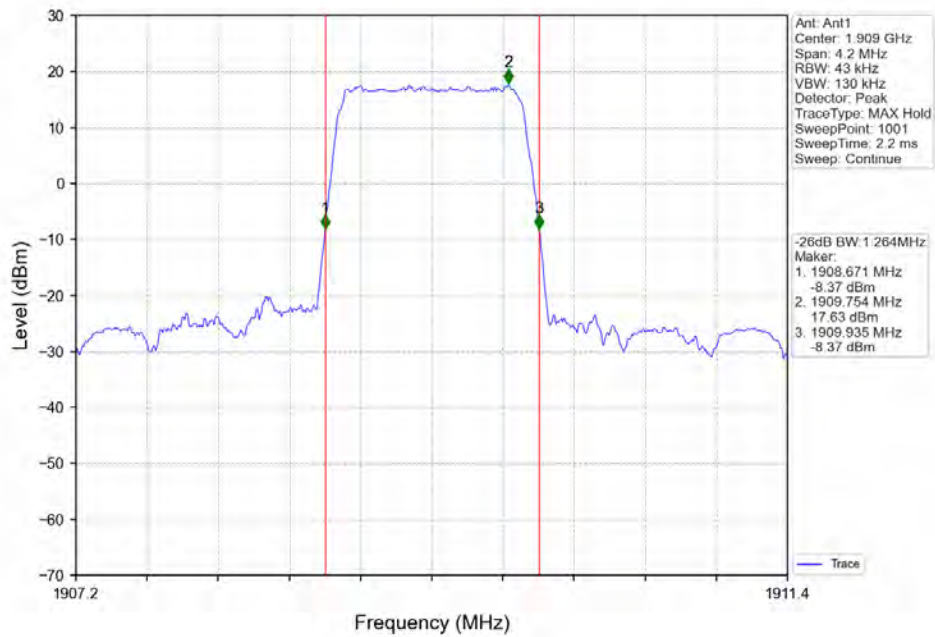
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

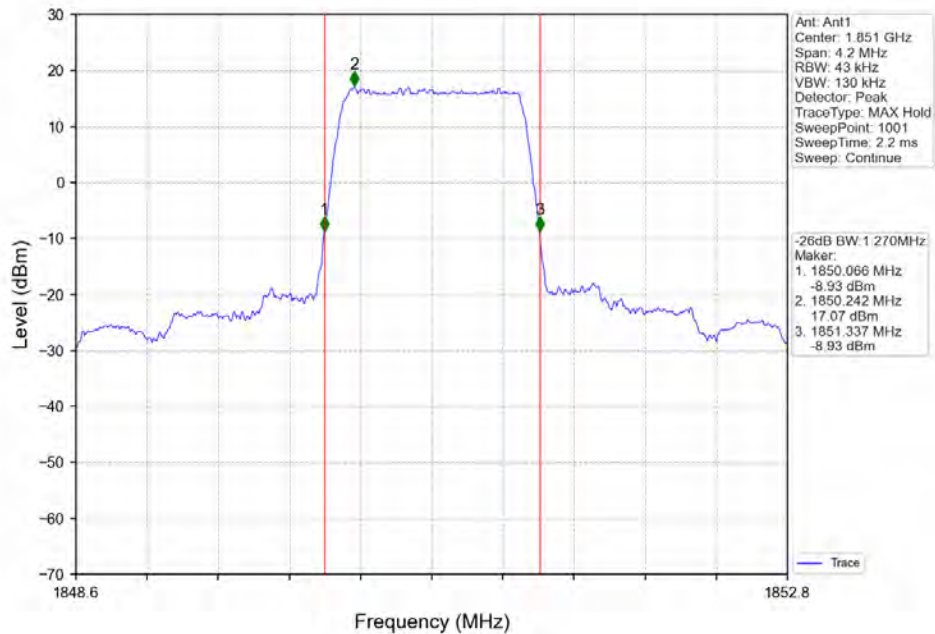
Email: customerservice.sw@bureauveritas.com



Band 2 1.4MHz QPSK HCH 1909.3MHz RB_6_0 NTN

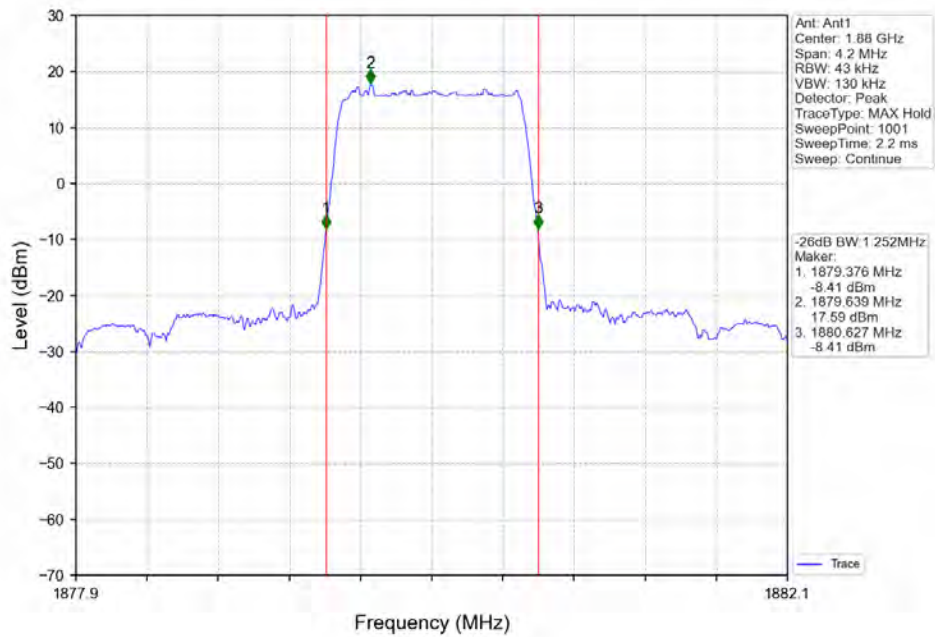


Band 2 1.4MHz 16QAM LCH 1850.7MHz RB_6_0 NTN

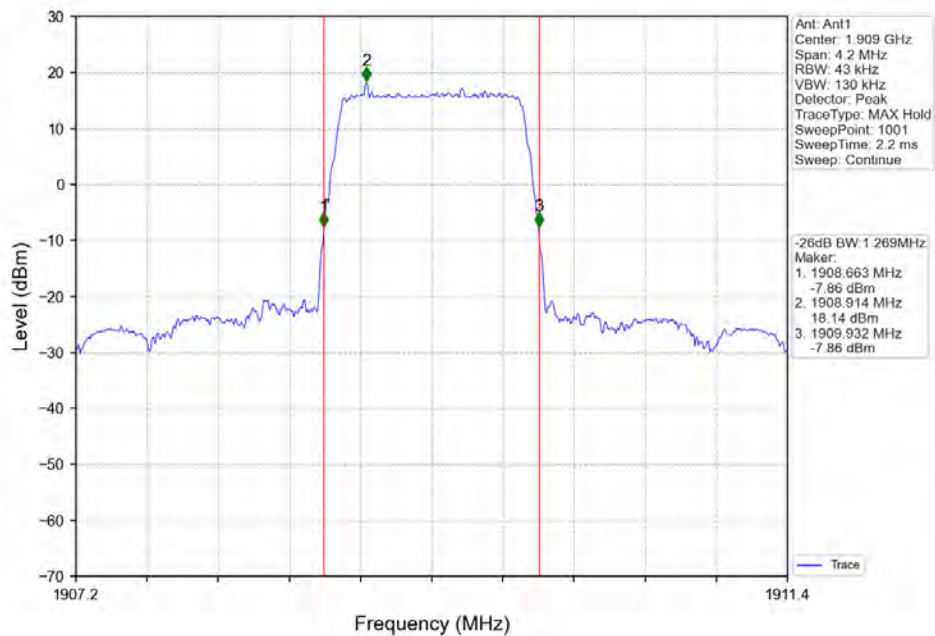




Band_2_1.4MHz_16QAM_MCH_1880MHz_RB_6_0_NTNV

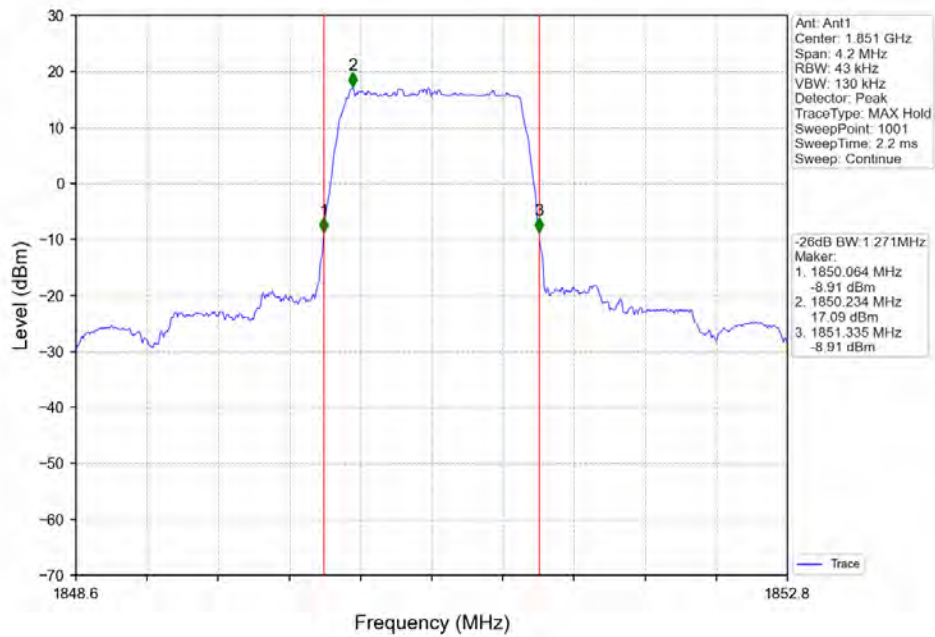


Band_2_1.4MHz_16QAM_HCH_1909.3MHz_RB_6_0_NTNV

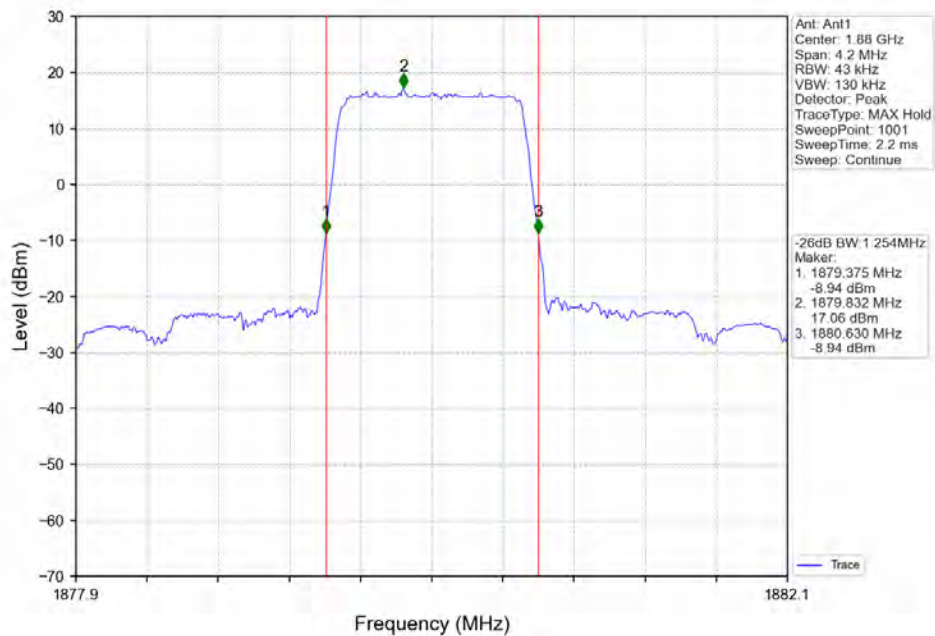




Band 2 1.4MHz 64QAM LCH 1850.7MHz RB 6_0_NTNV

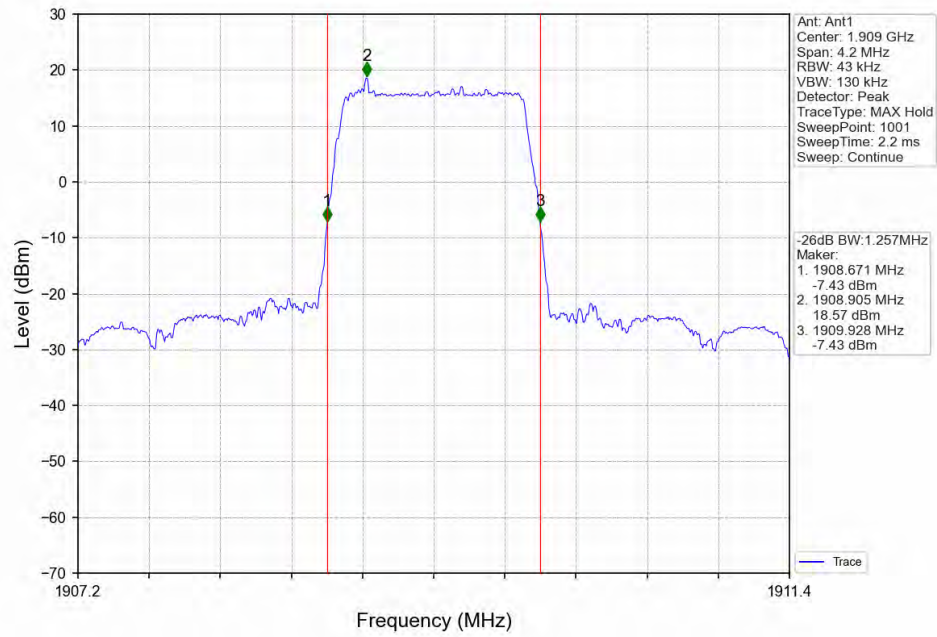


Band 2 1.4MHz 64QAM MCH 1880MHz RB 6_0_NTNV



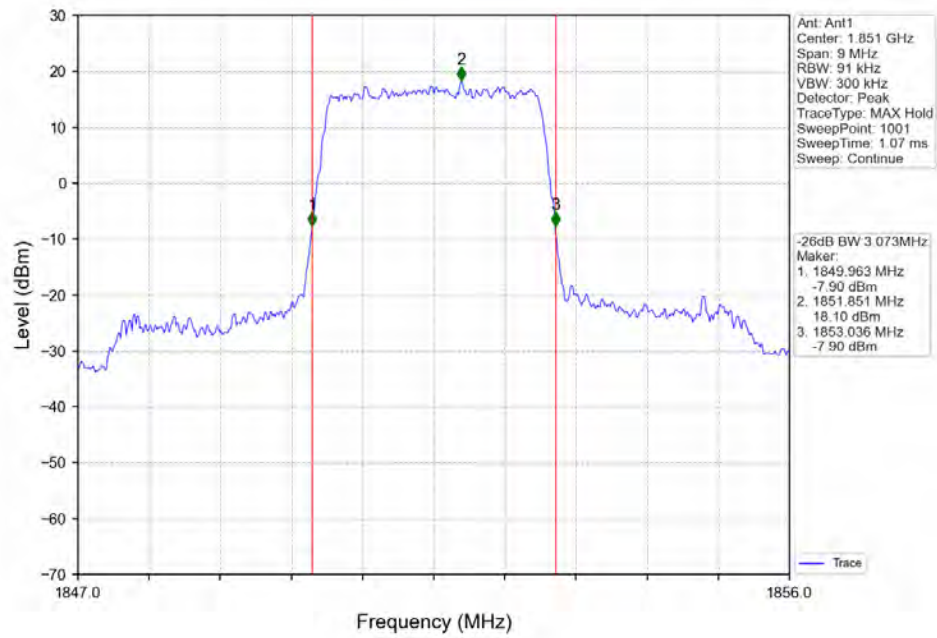


Band 2 1.4MHz 64QAM HCH 1909.3MHz RB 6 0 NTN

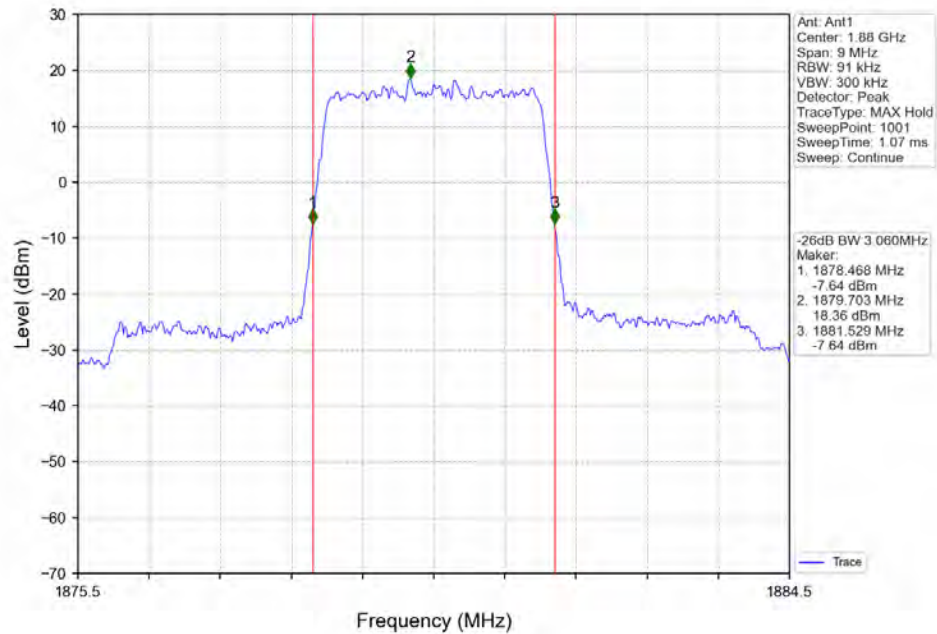




Band_2_3MHz_QPSK_LCH_1851.5MHz_RB_15_0_NTNV



Band_2_3MHz_QPSK_MCH_1880MHz_RB_15_0_NTNV



BV 7Layers Communications
Technology (Shenzhen) Co. Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan
Avenue, North Area, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, China

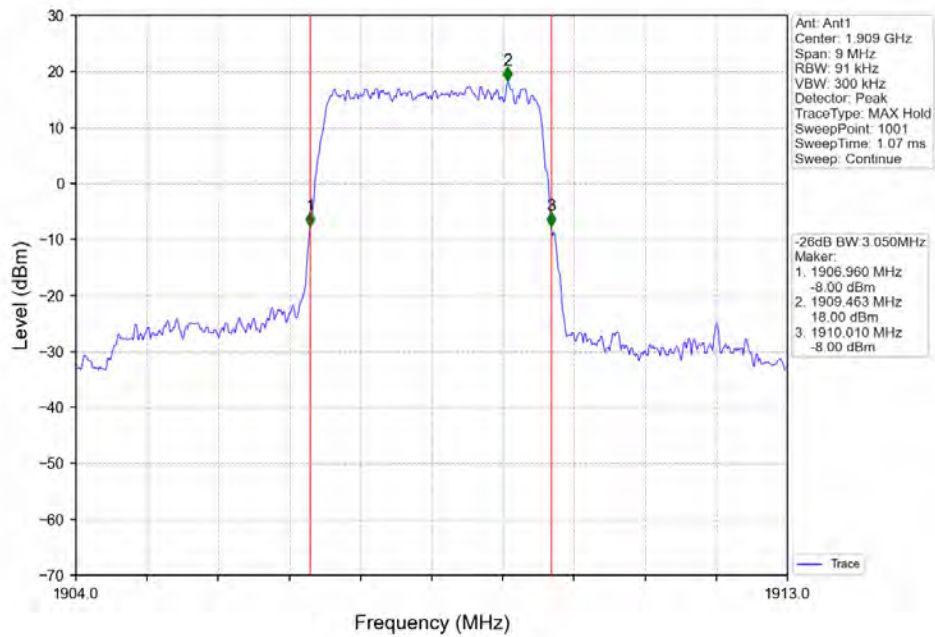
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

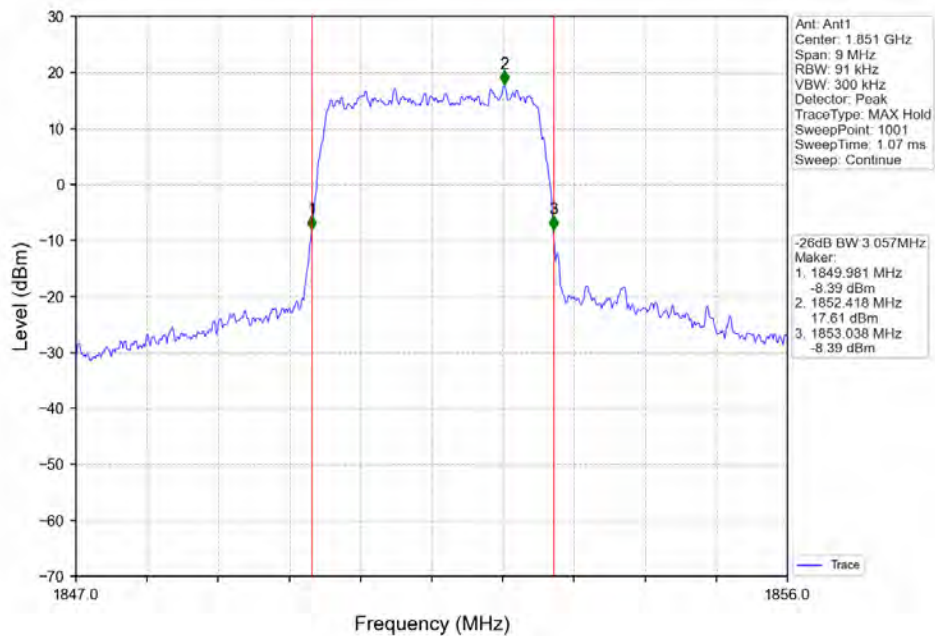
Email: customerservice.sw@bureauveritas.com



Band_2_3MHz_QPSK_HCH_1908.5MHz_RB_15_0_NTNV

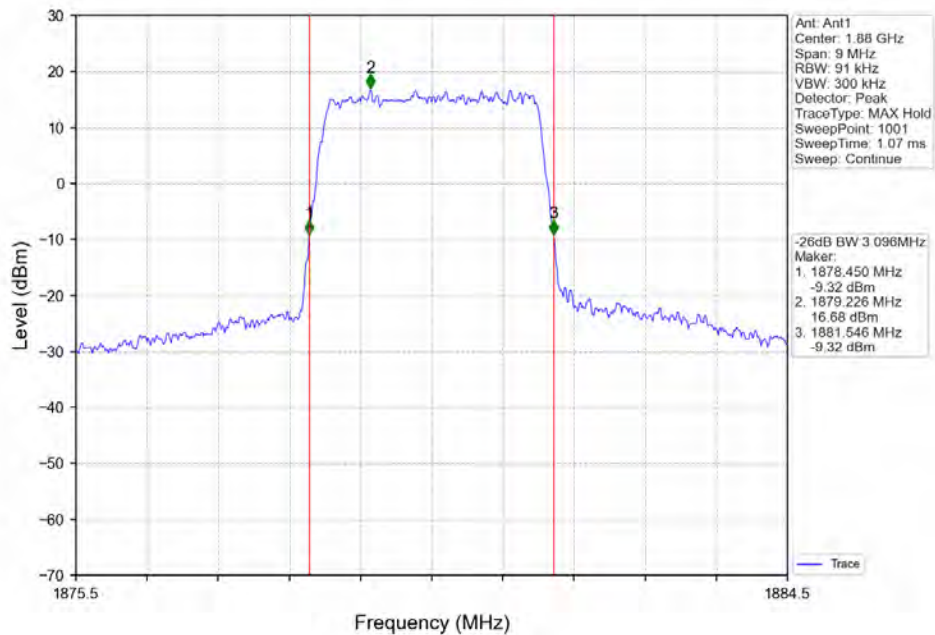


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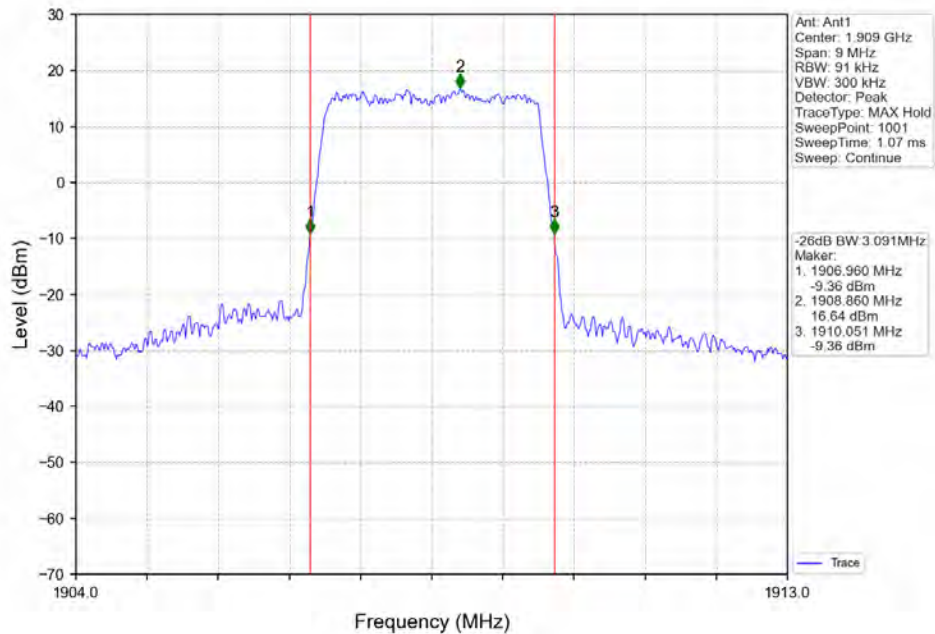




Band 2 3MHz 16QAM MCH 1880MHz RB 15 0 NTNV

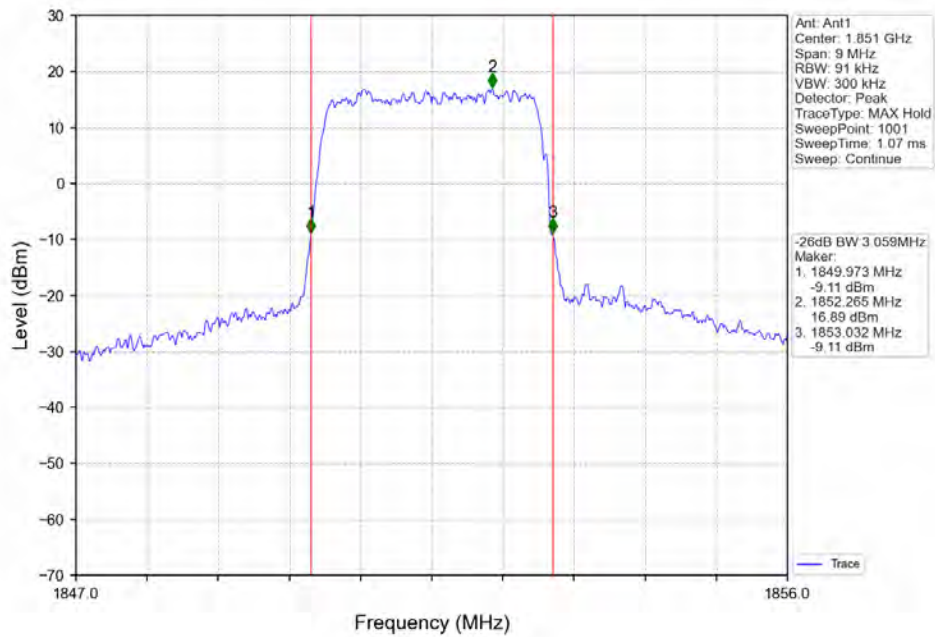


Band 2 3MHz 16QAM HCH 1908.5MHz RB 15 0 NTNV

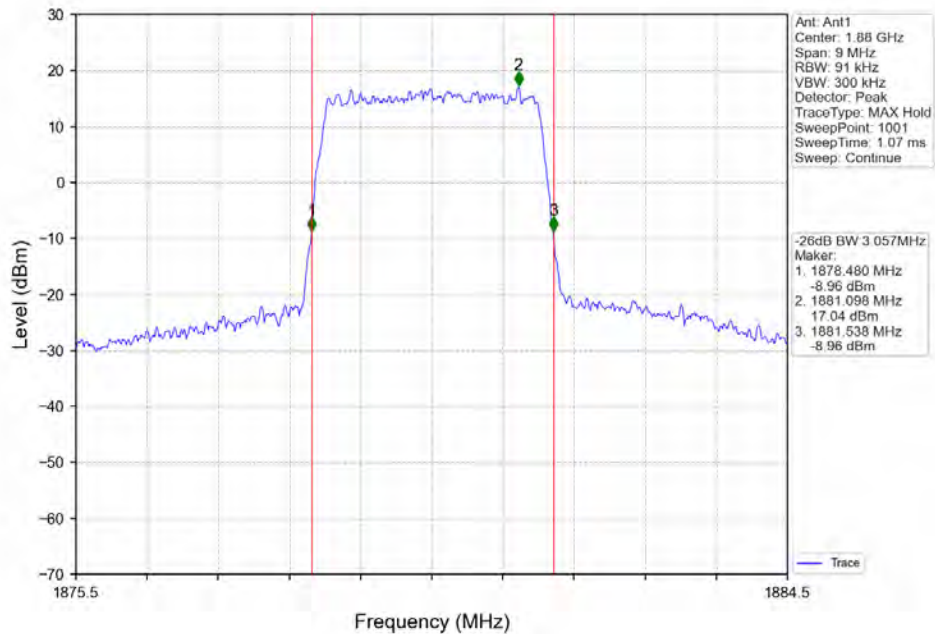


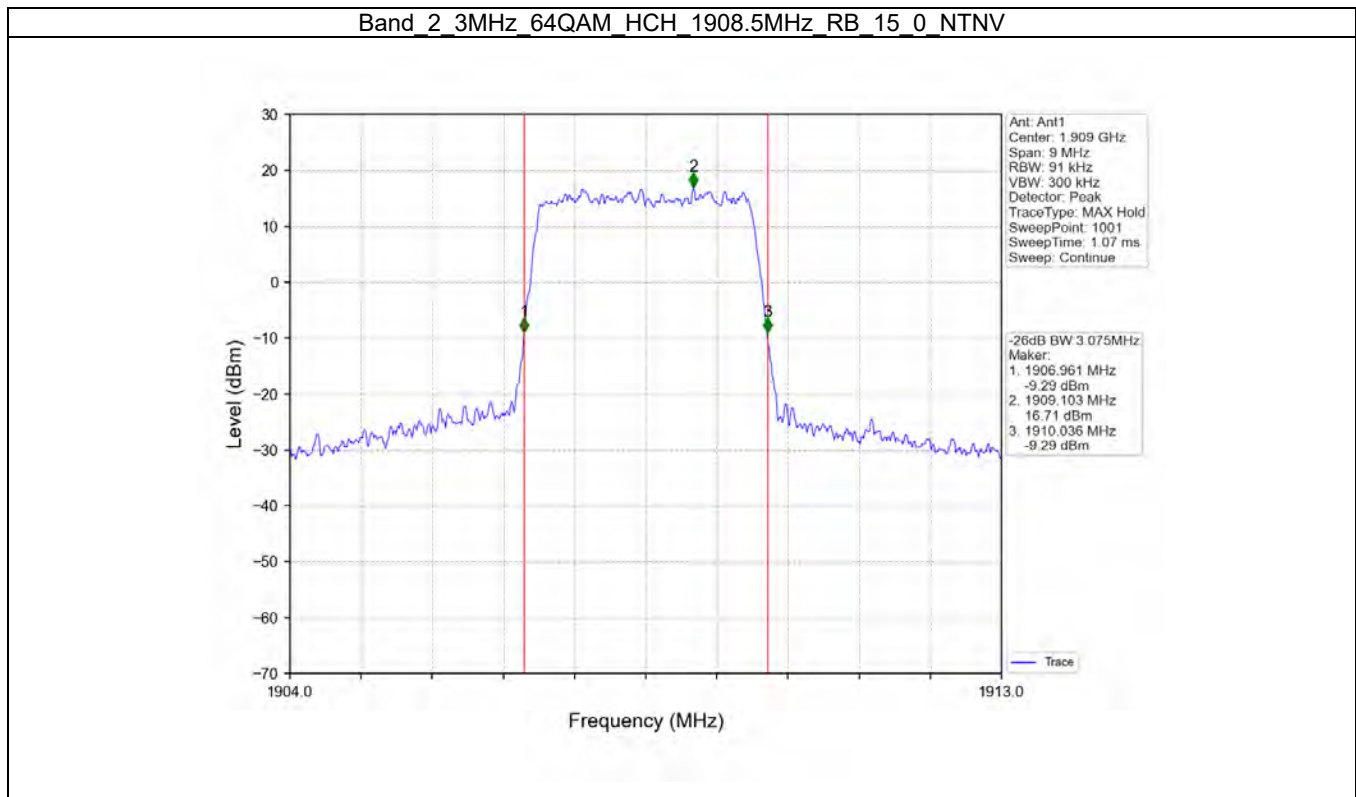


Band_2_3MHz_64QAM_LCH_1851.5MHz_RB_15_0_NTNV



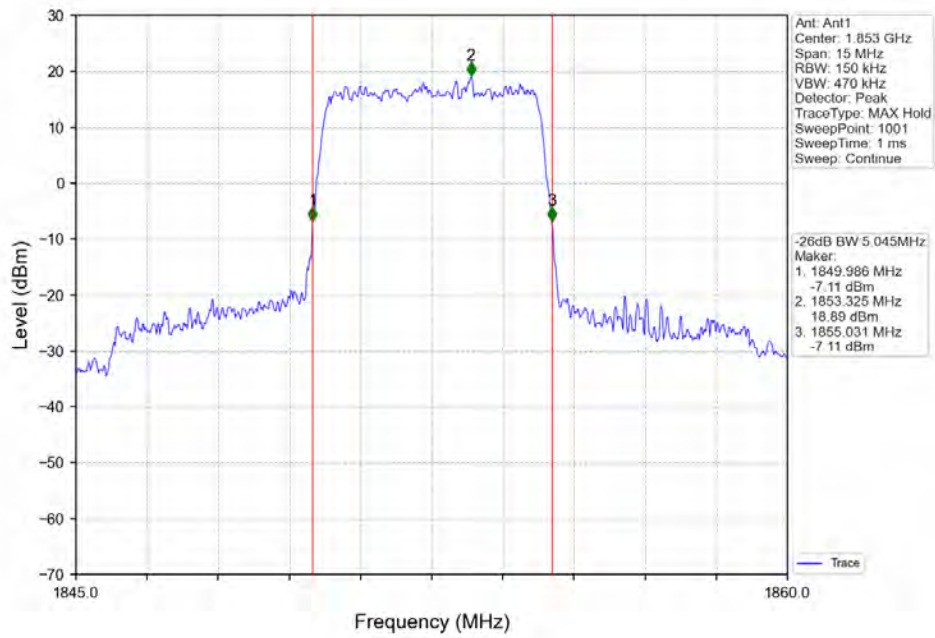
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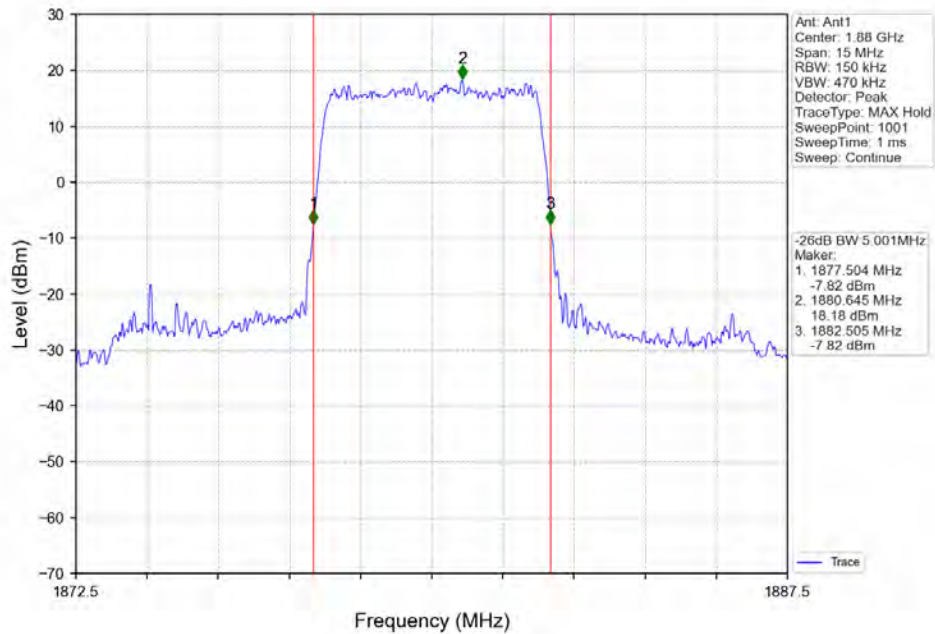


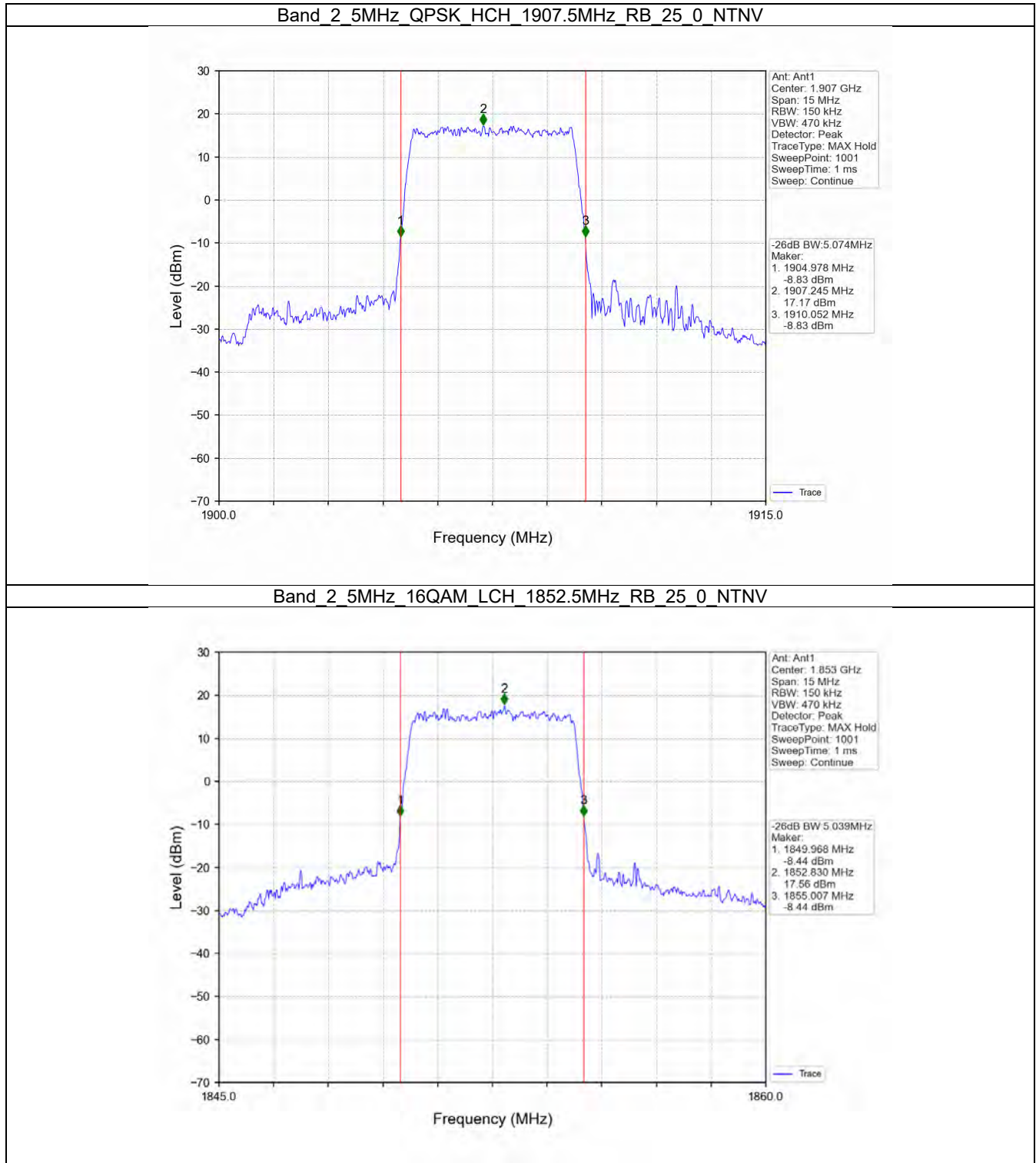


Band_2_5MHz_QPSK_LCH_1852.5MHz_RB_25_0_NTNV



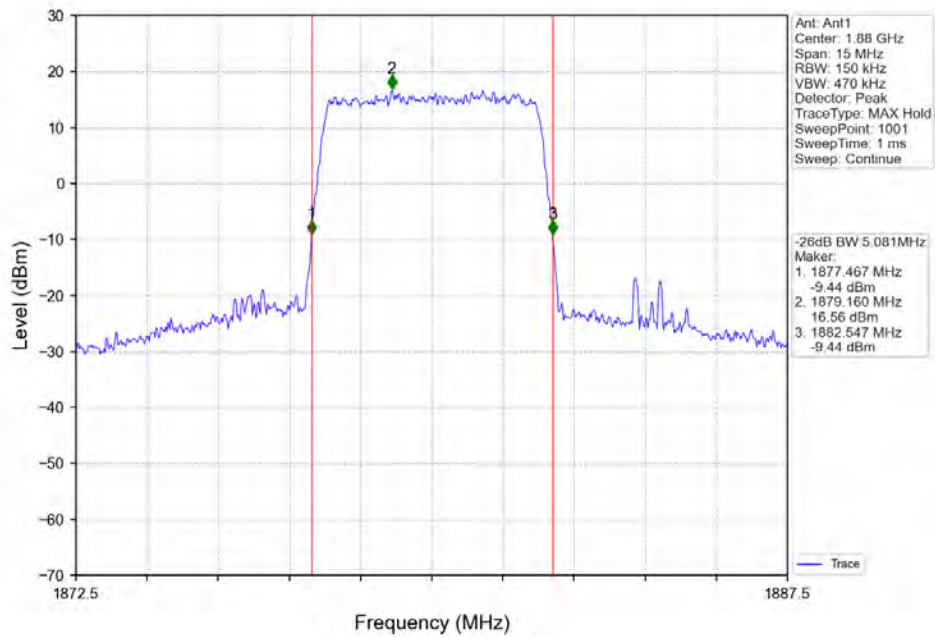
Band 2 5MHz QPSK MCH 1880MHz RB 25 0 NTNv



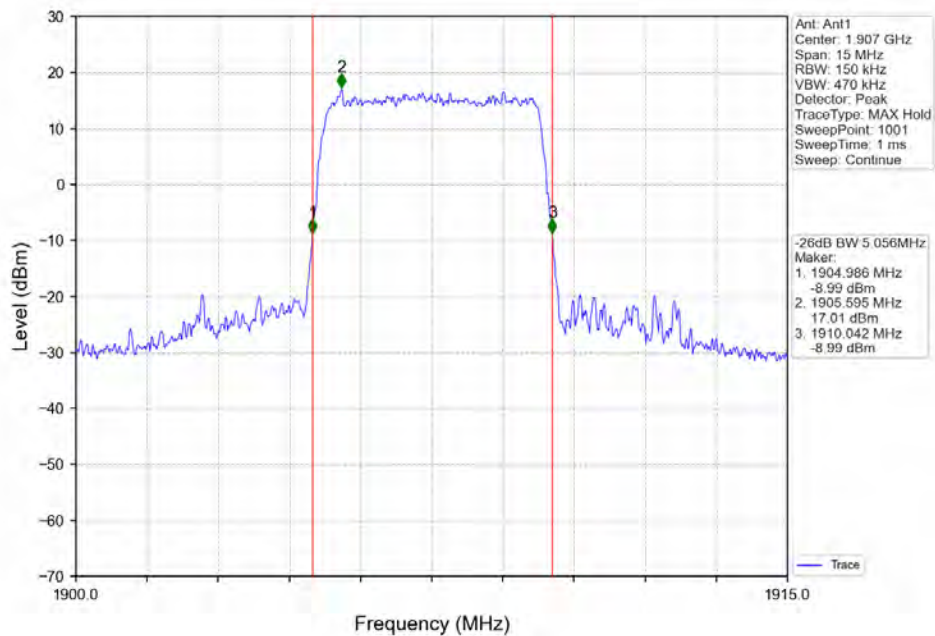




Band 2 5MHz 16QAM MCH 1880MHz RB 25 0 NTNV

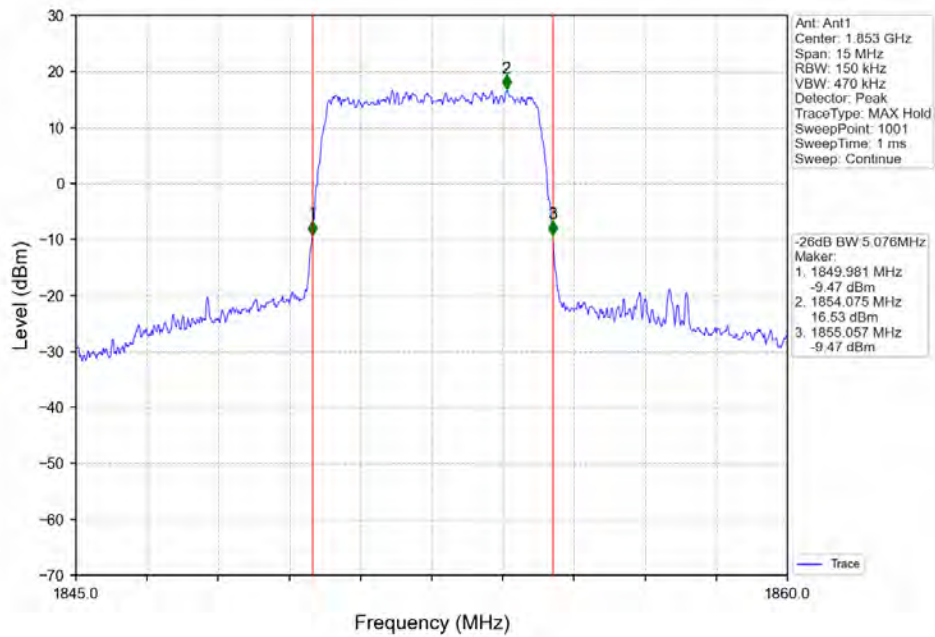


Band 2 5MHz 16QAM HCH 1907.5MHz RB 25 0 NTNV

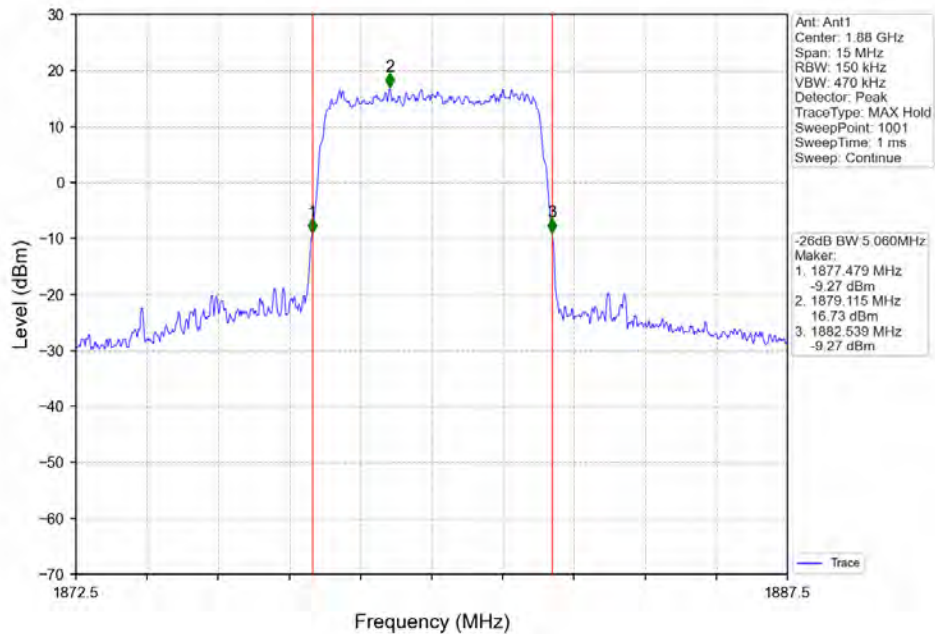


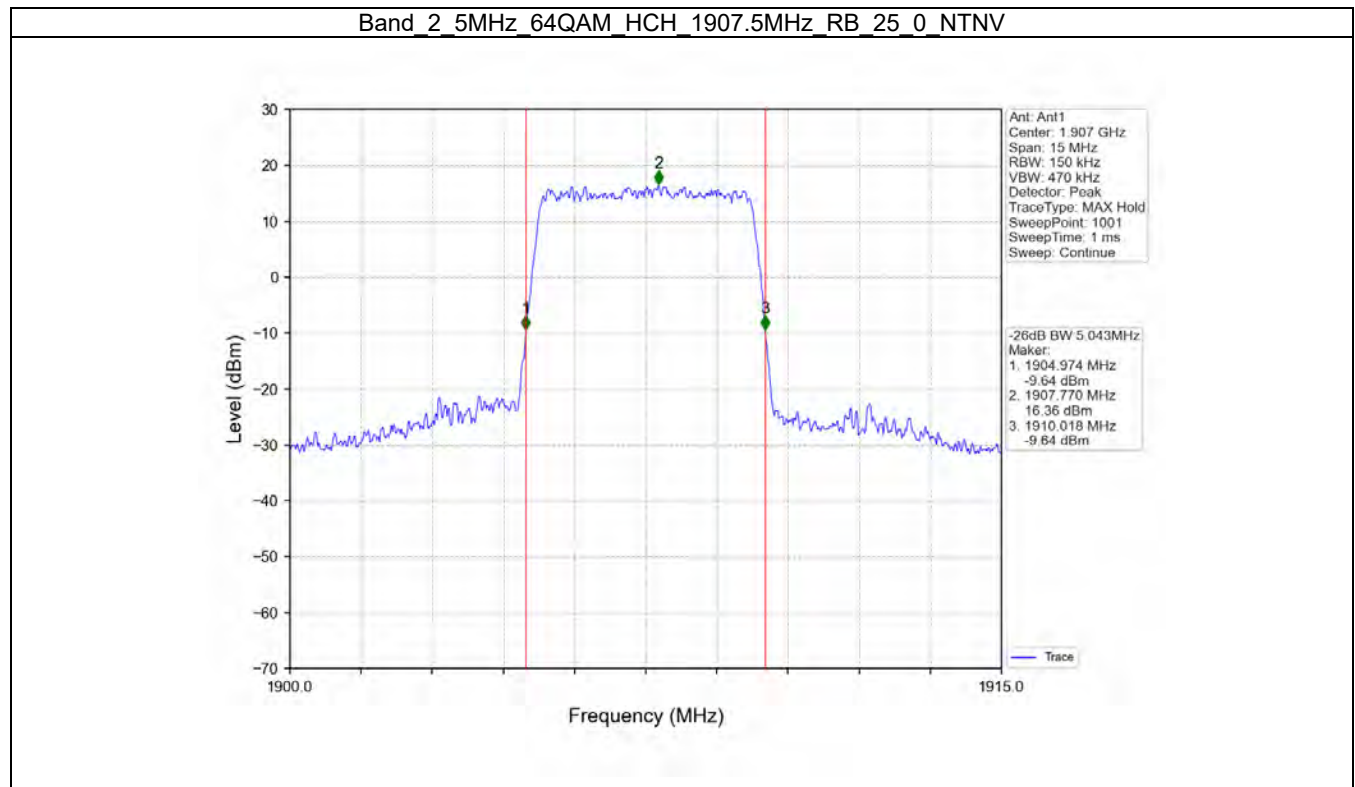


Band 2 5MHz 64QAM LCH 1852.5MHz RB 25_0 NTN



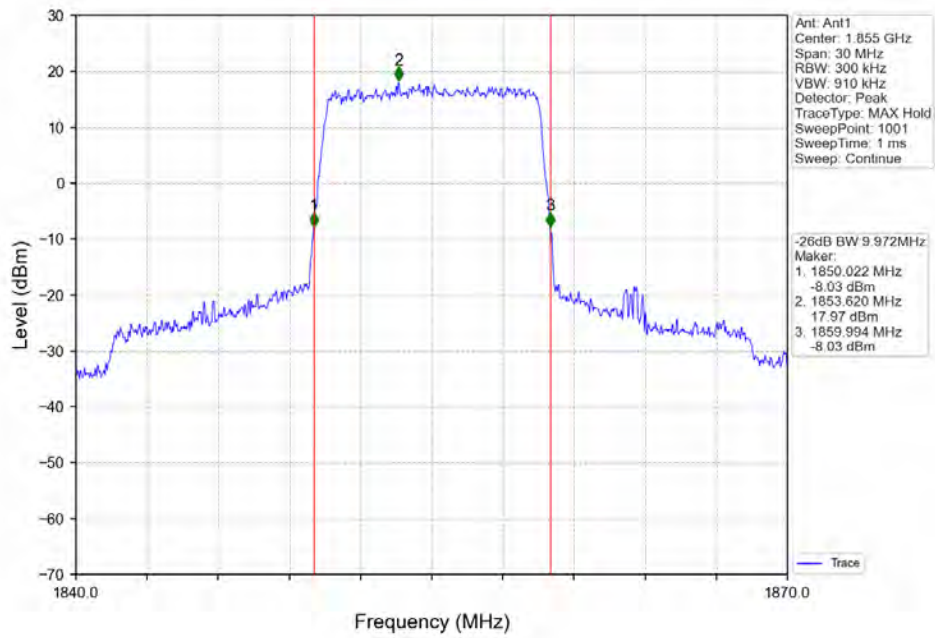
Band 2 5MHz 64QAM MCH 1880MHz RB 25_0 NTN



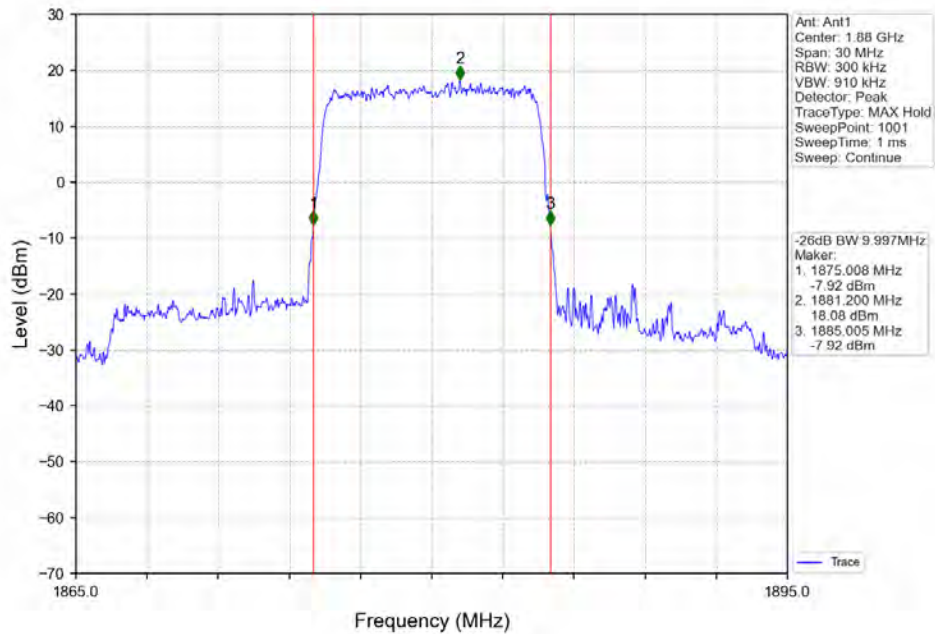




Band_2_10MHz_QPSK_LCH_1855MHz_RB_50_0_NTNV

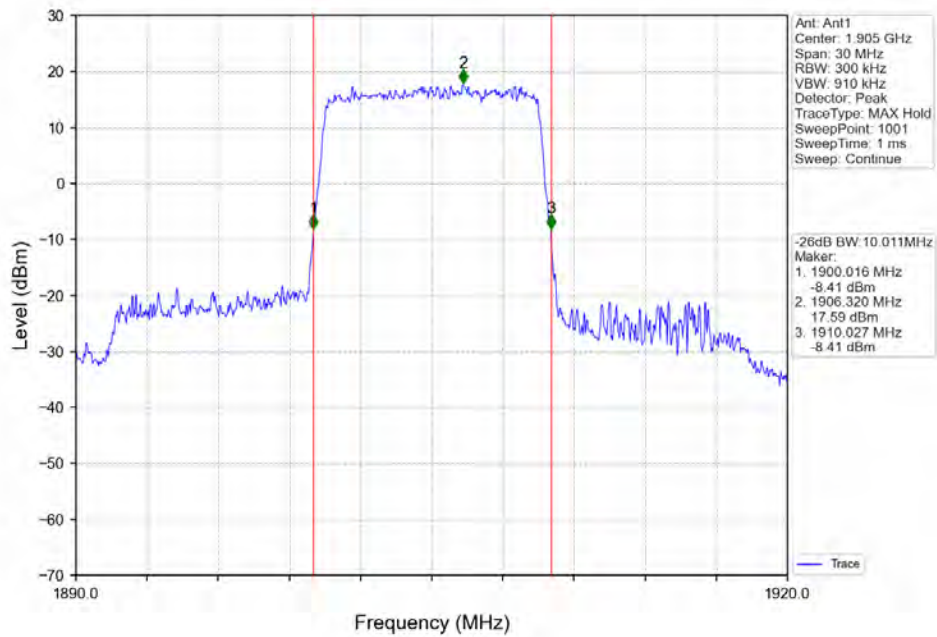


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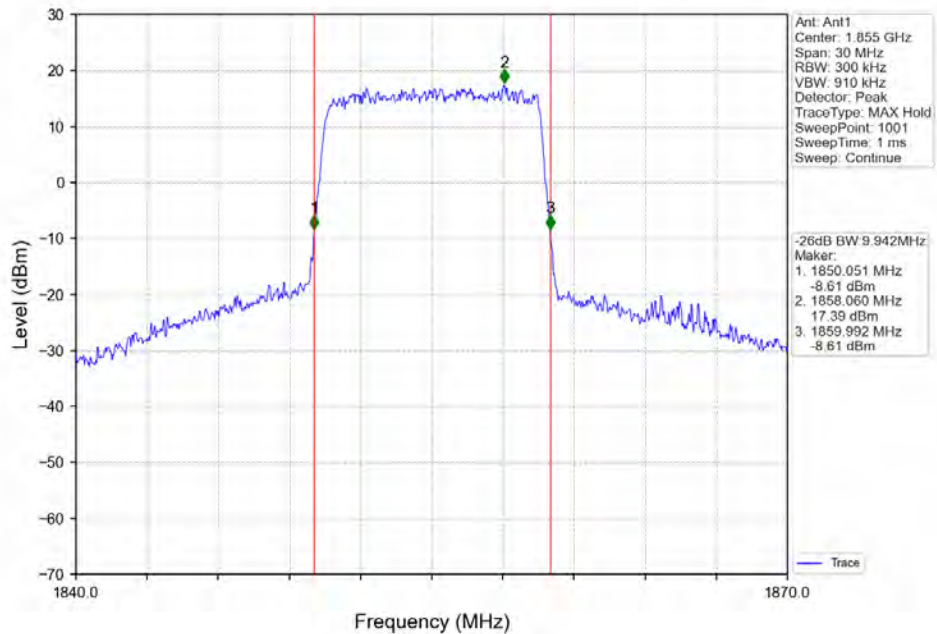




Band 2_10MHz_QPSK_HCH_1905MHz_RB_50_0_NTNV

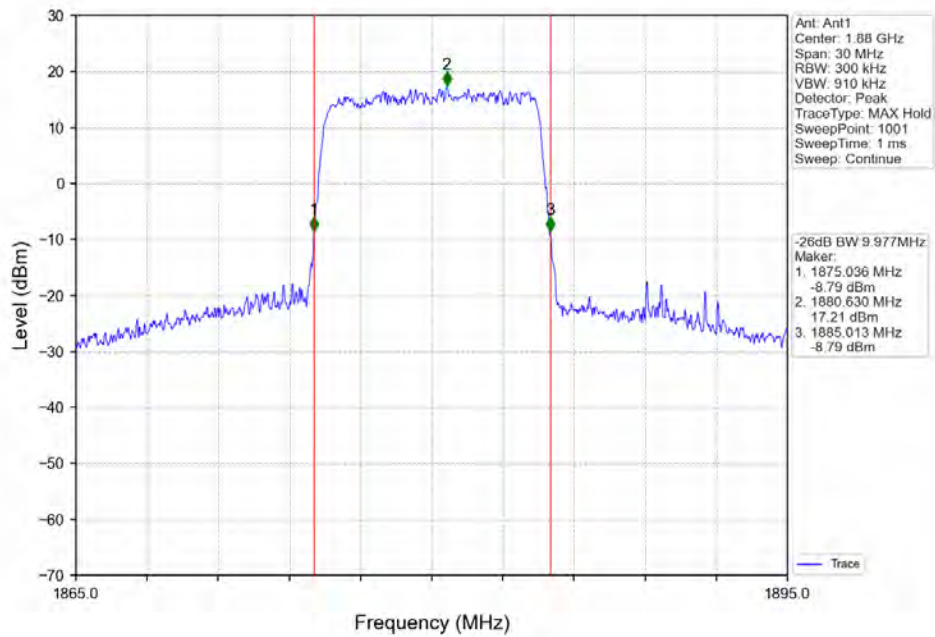


Band 2_10MHz_16QAM_LCH_1855MHz_RB_50_0_NTNV

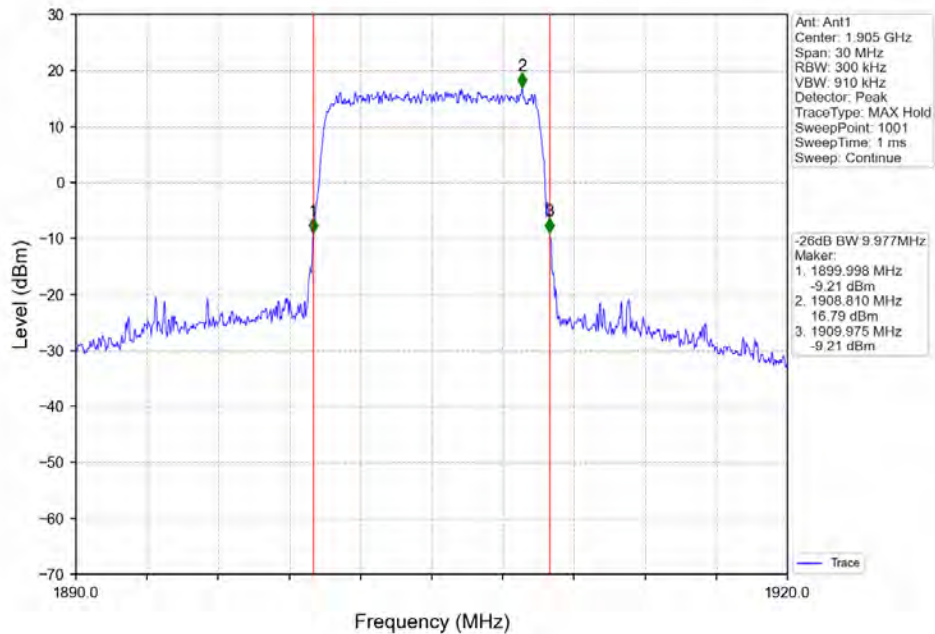


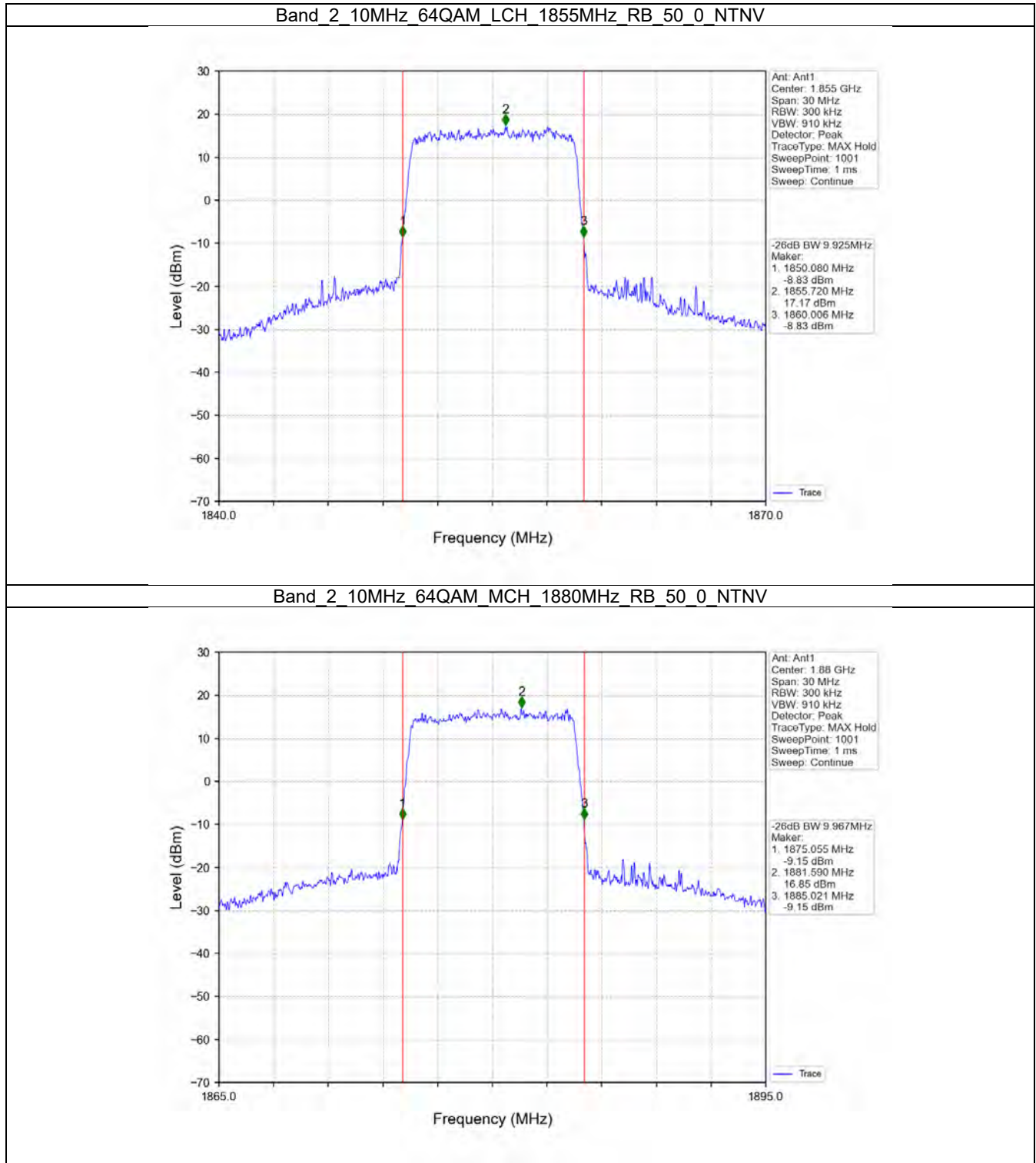


Band_2_10MHz_16QAM_MCH_1880MHz_RB_50_0_NTNV



Band_2_10MHz_16QAM_HCH_1905MHz_RB_50_0_NTNV





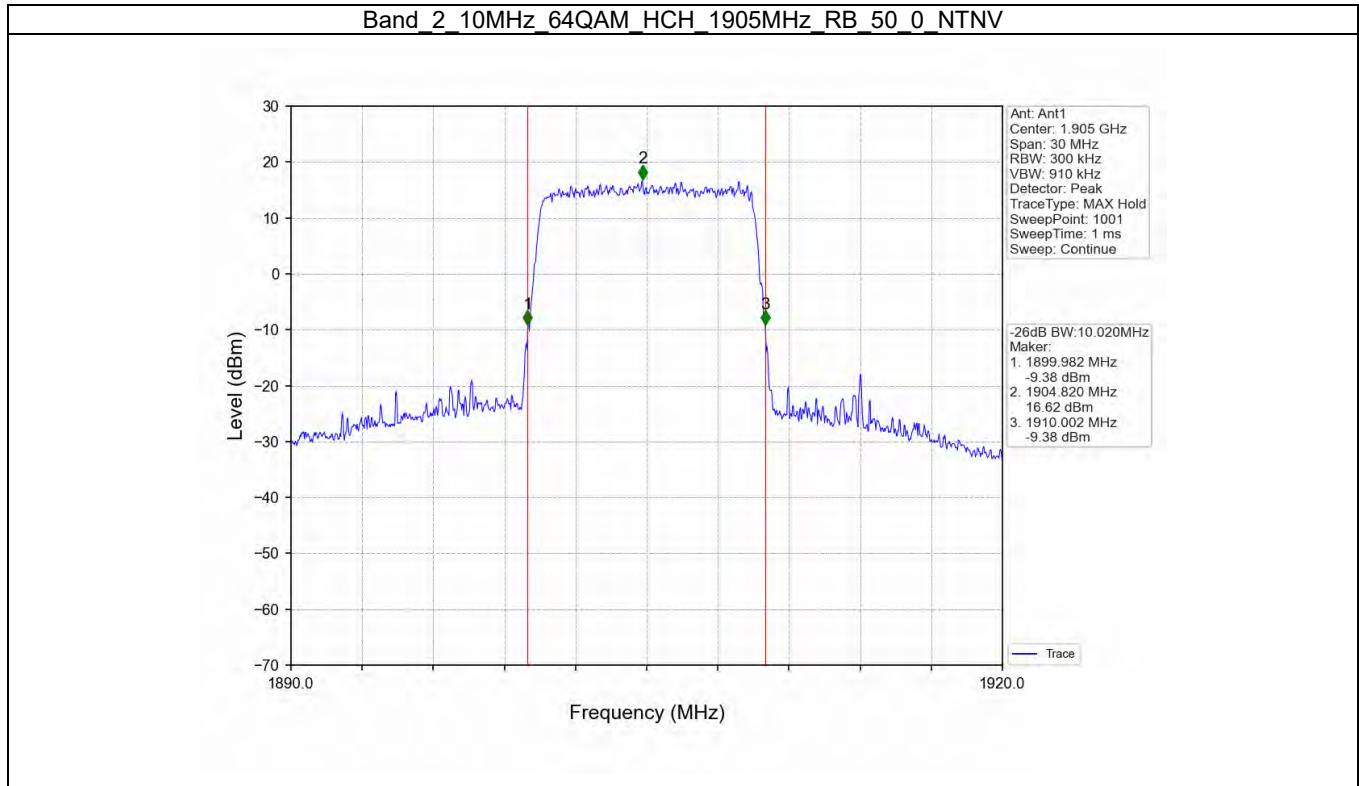
BV 7Layers Communications
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District, Shenzhen, Guangdong, China

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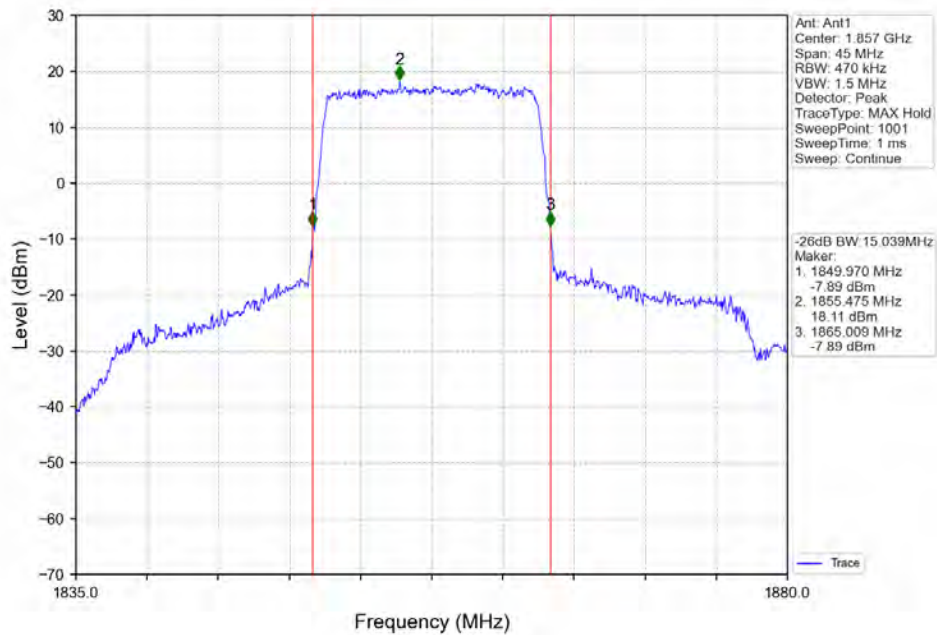
Fax: +86 755 8869 6577

Email: customerservice.sw@bureauveritas.com

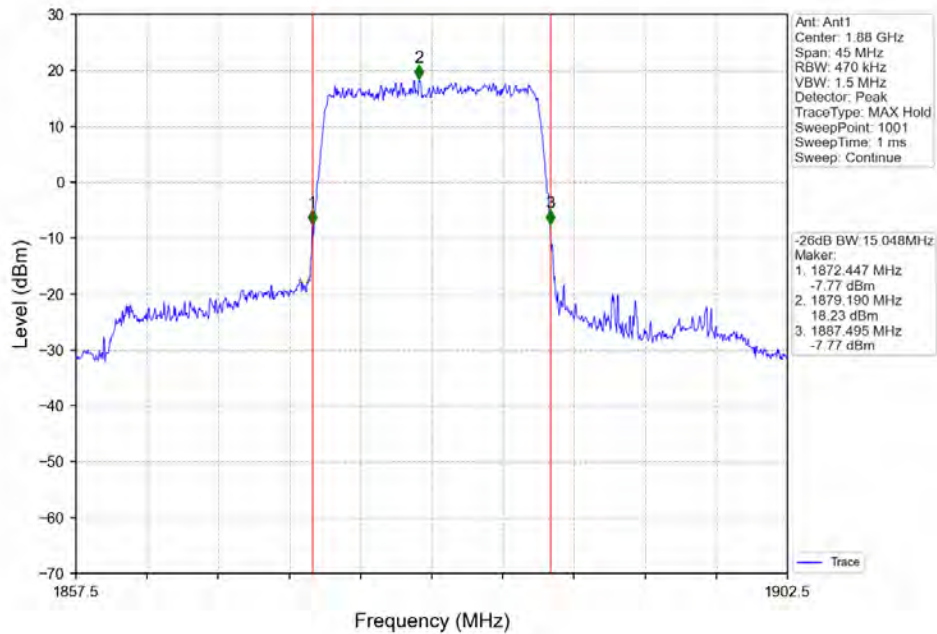




Band_2_15MHz_QPSK_LCH_1857.5MHz_RB_75_0_NTNV

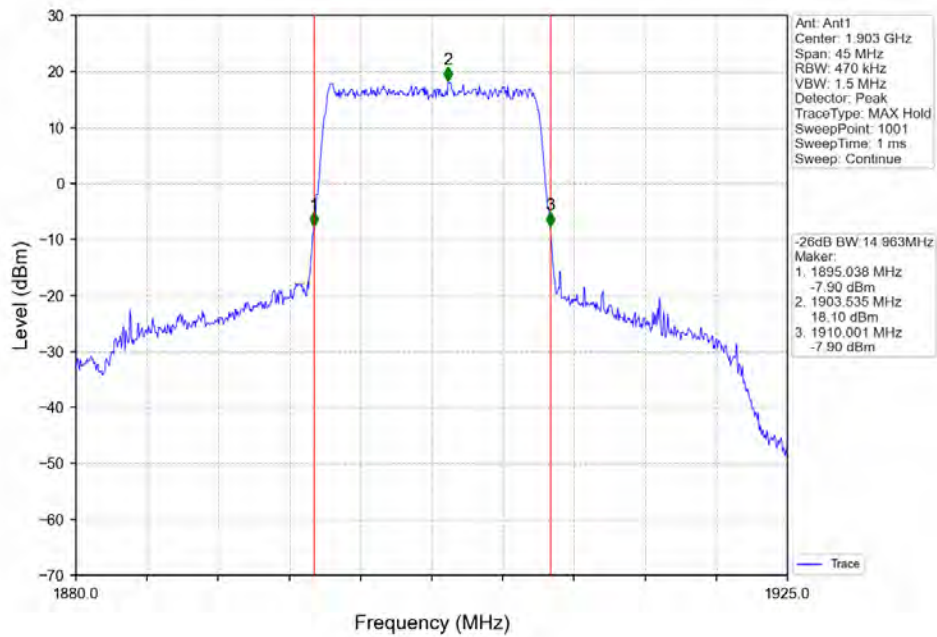


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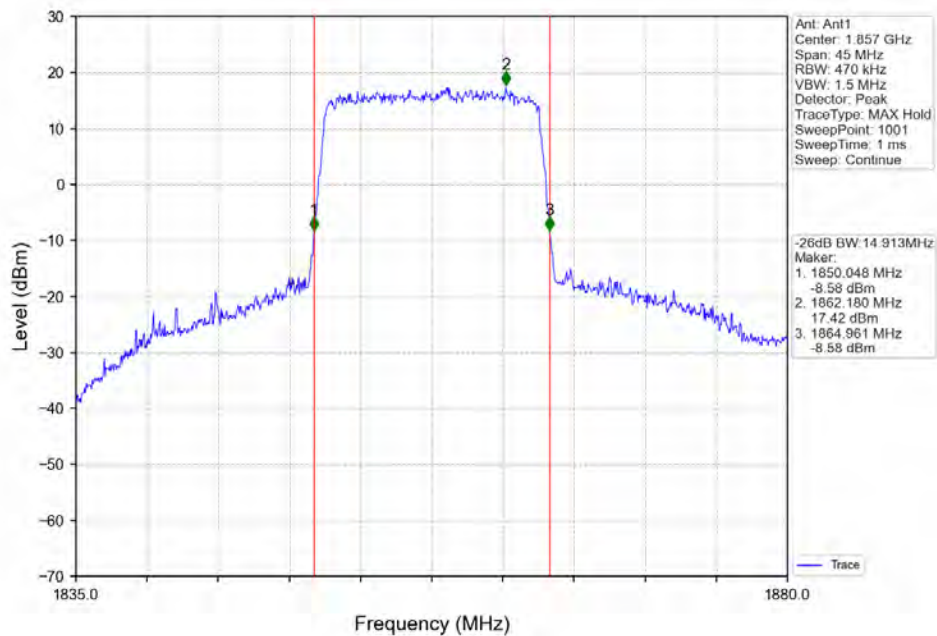




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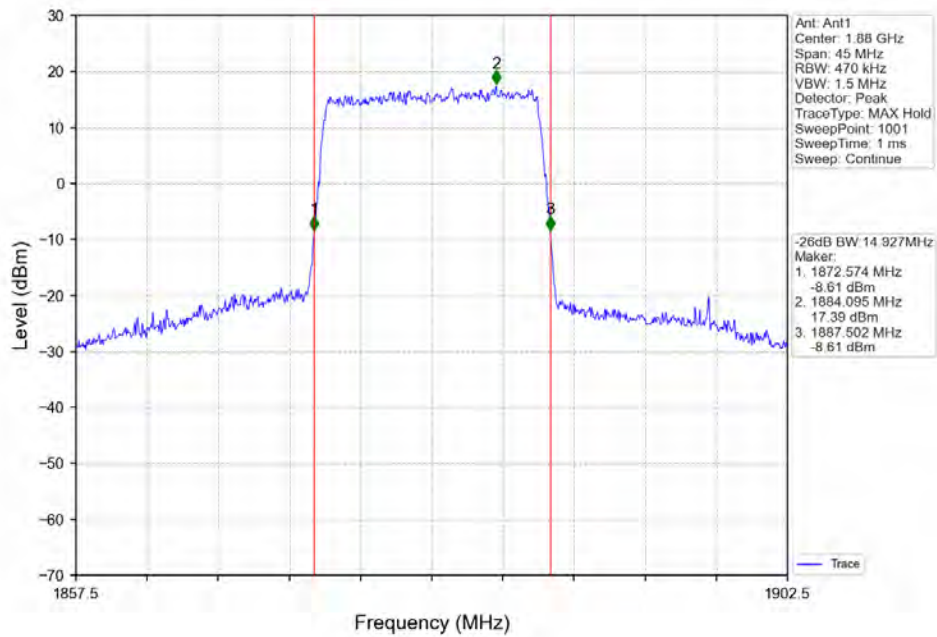


Band_2_15MHz_16QAM_LCH_1857.5MHz_RB_75_0_NTNV

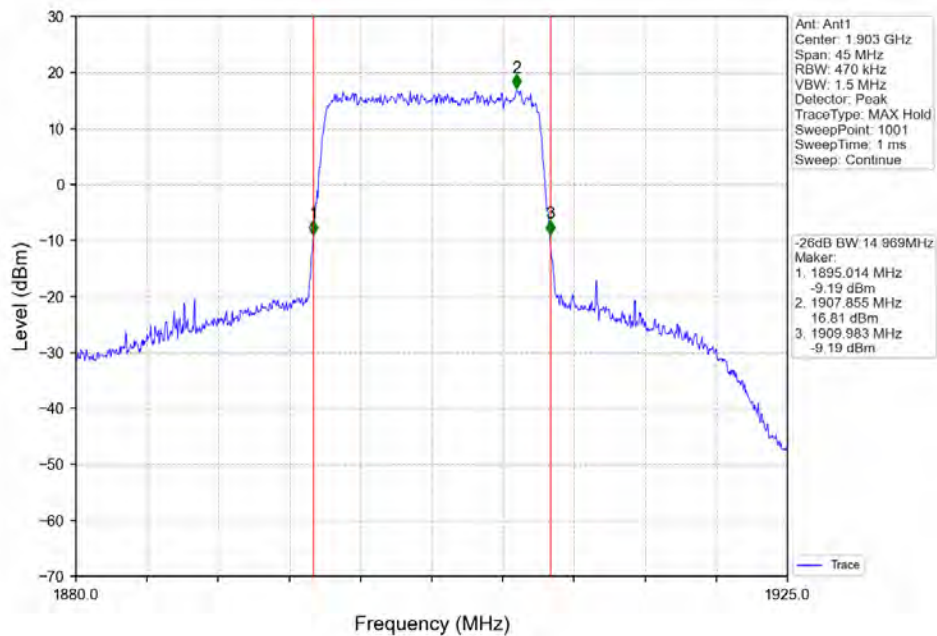




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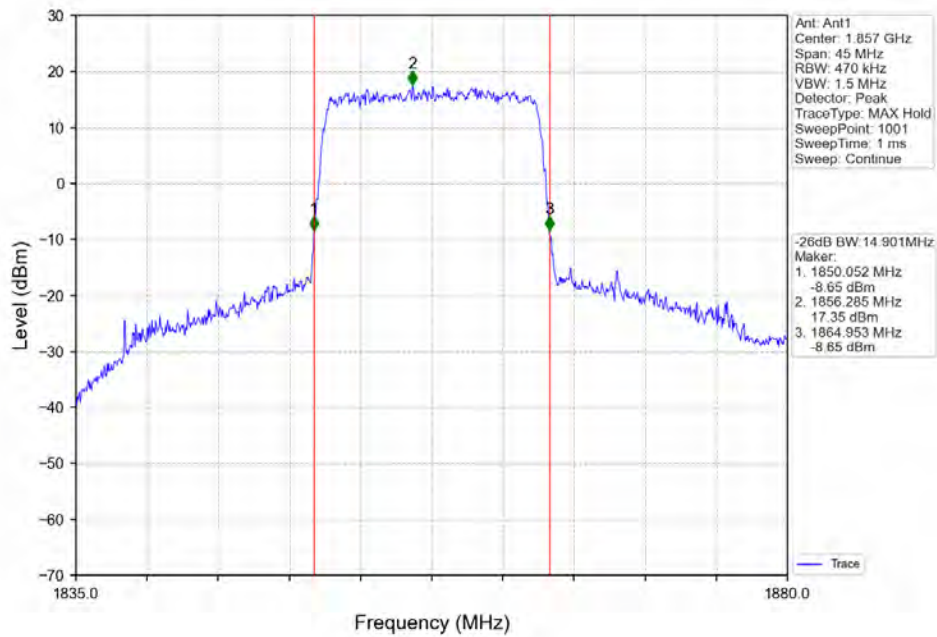


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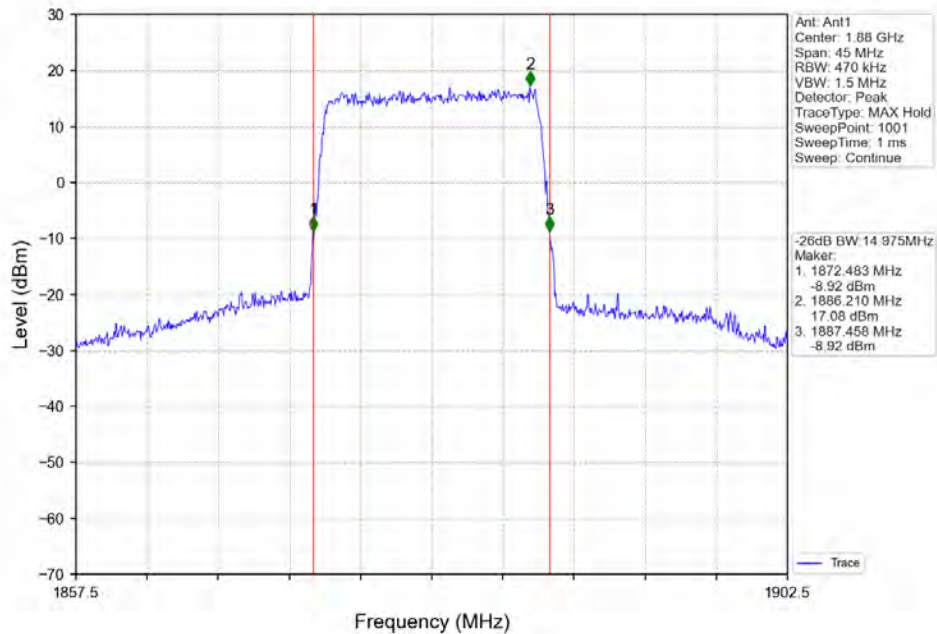


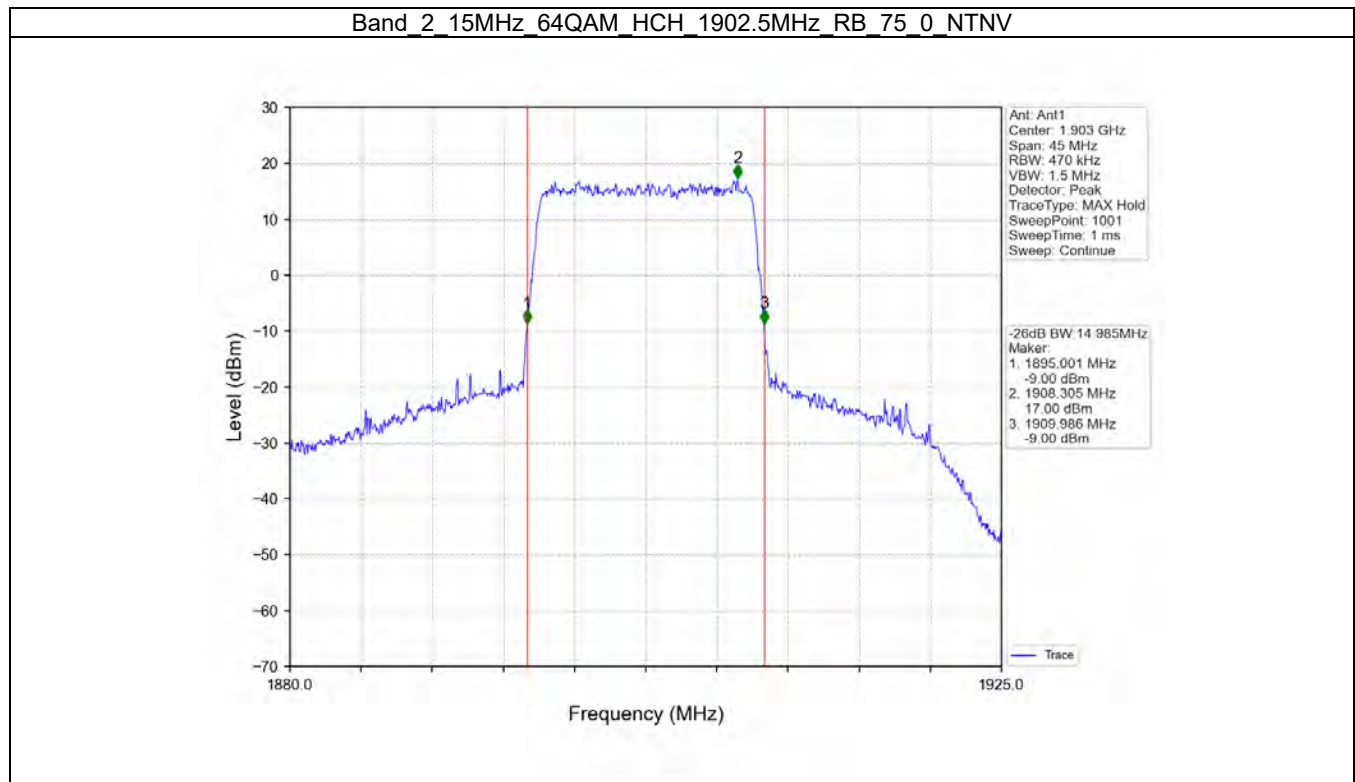


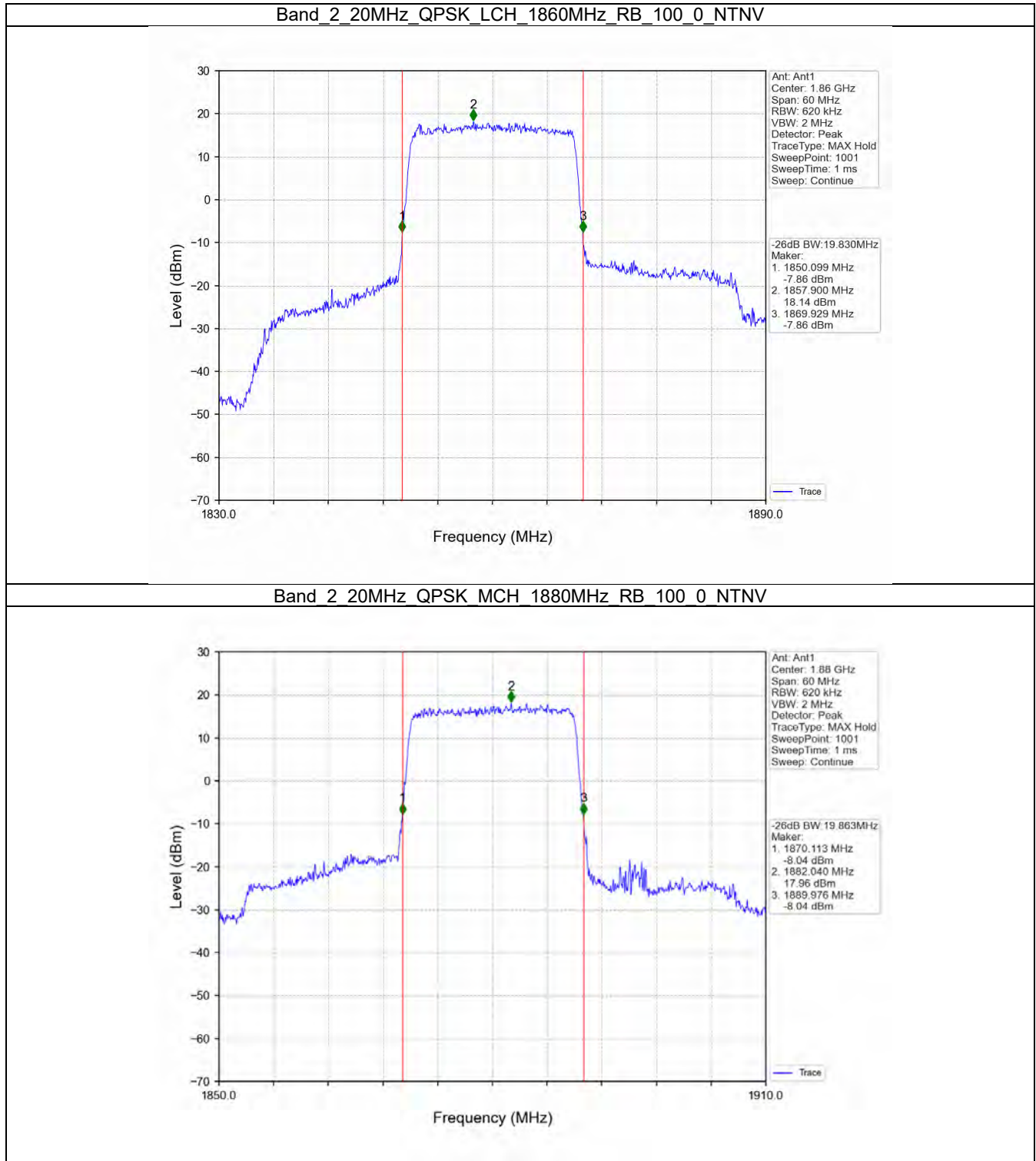
Band 2_15MHz_64QAM_LCH_1857.5MHz_RB_75_0_NTNV



Band 2_15MHz_64QAM_MCH_1880MHz_RB_75_0_NTNV







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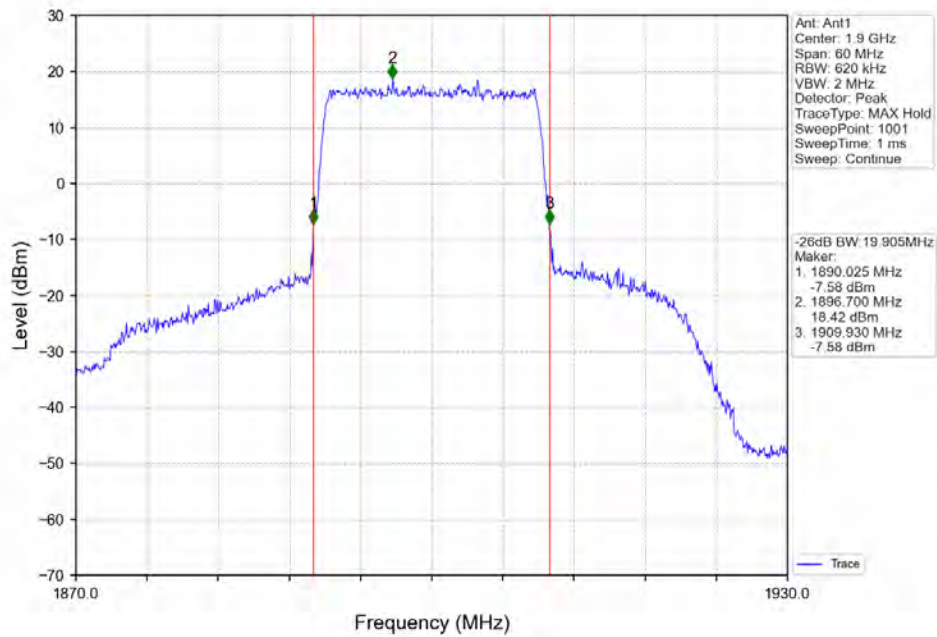
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

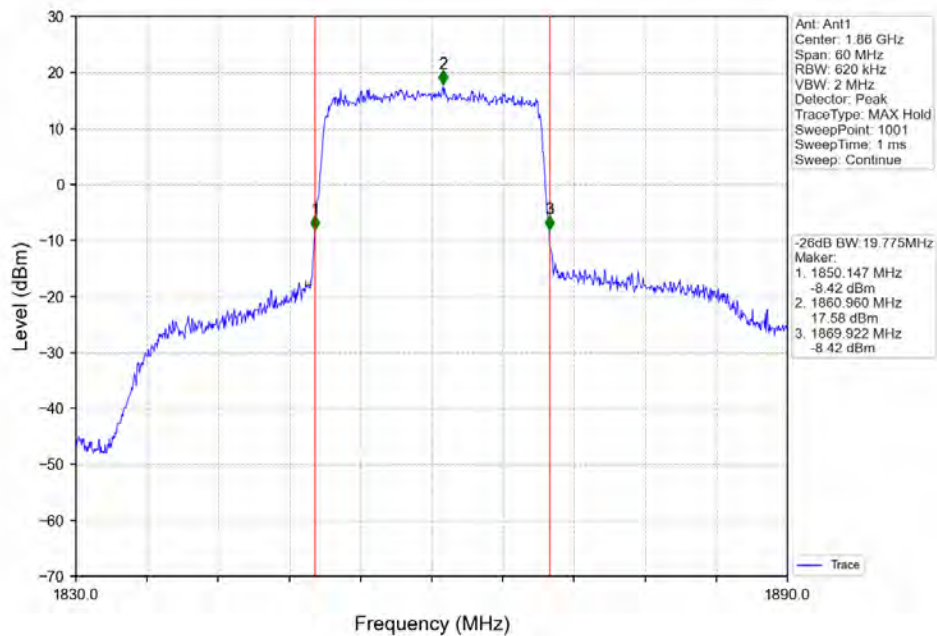
Email: customerservice.sw@bureauveritas.com



Band 2 20MHz QPSK HCH 1900MHz RB 100_0 NTN

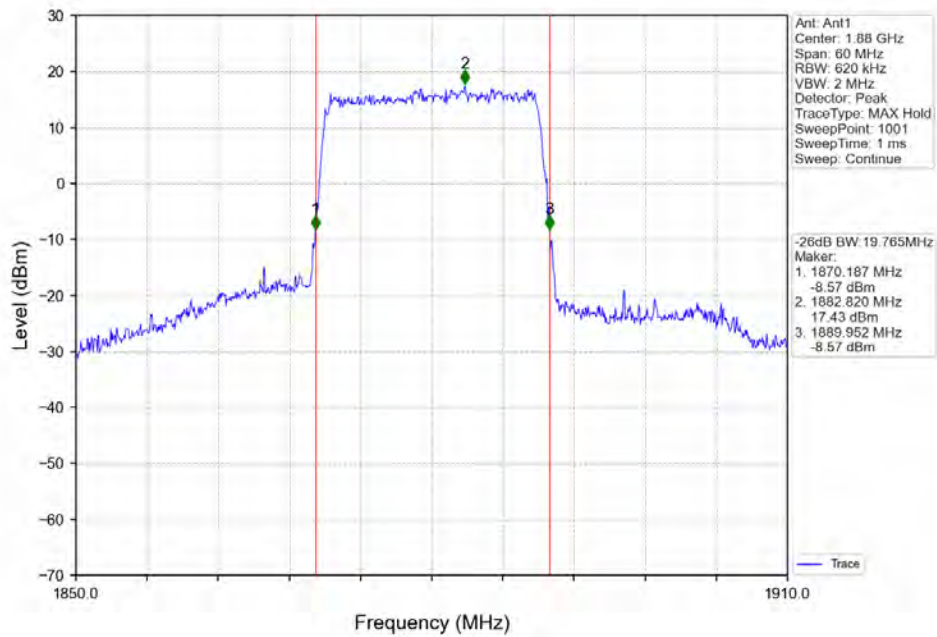


Band 2 20MHz 16QAM LCH 1860MHz RB 100_0 NTN

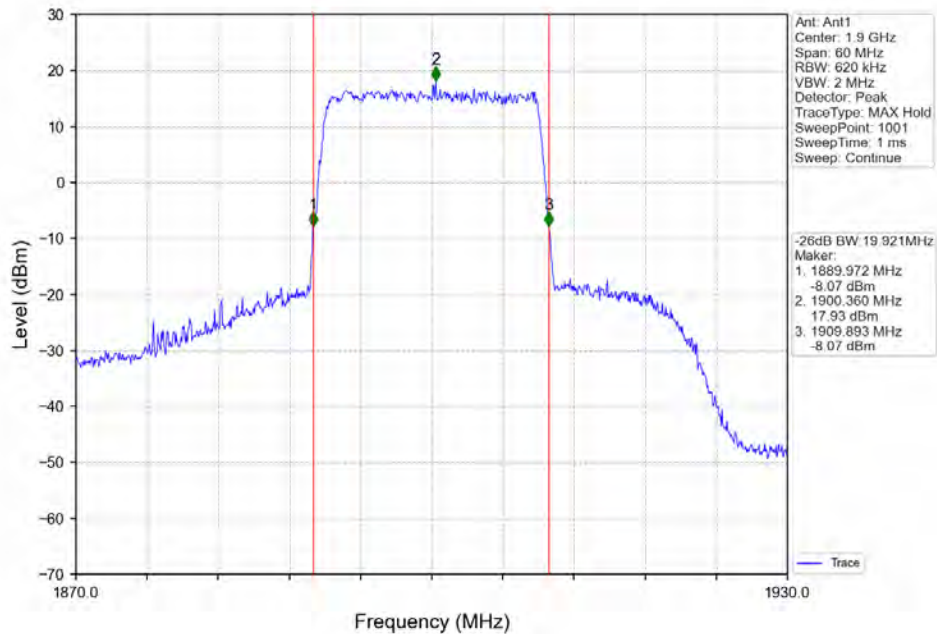




Band 2_20MHz_16QAM_MCH_1880MHz_RB_100_0_NTNV

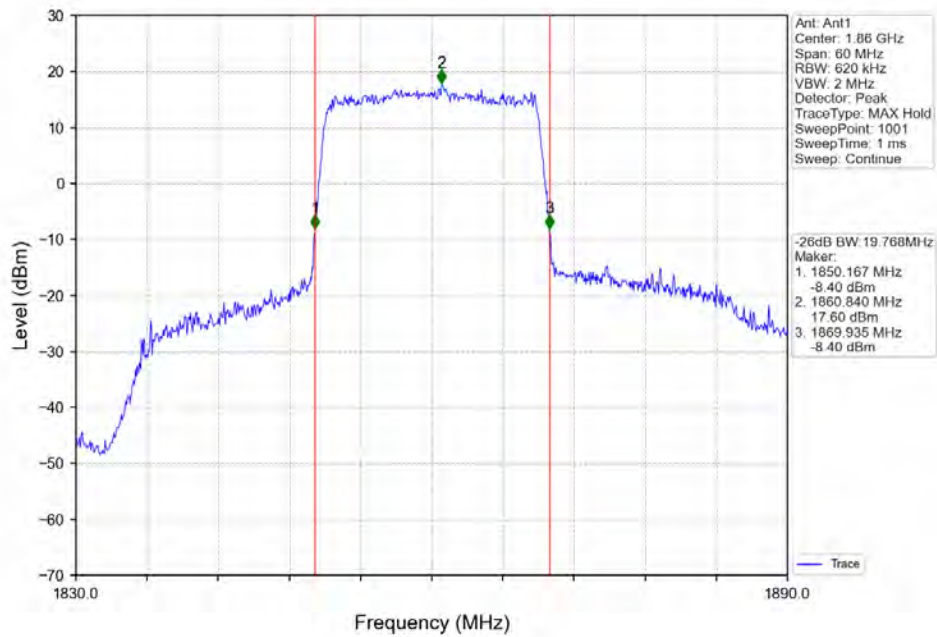


Band 2_20MHz_16QAM_HCH_1900MHz_RB_100_0_NTNV

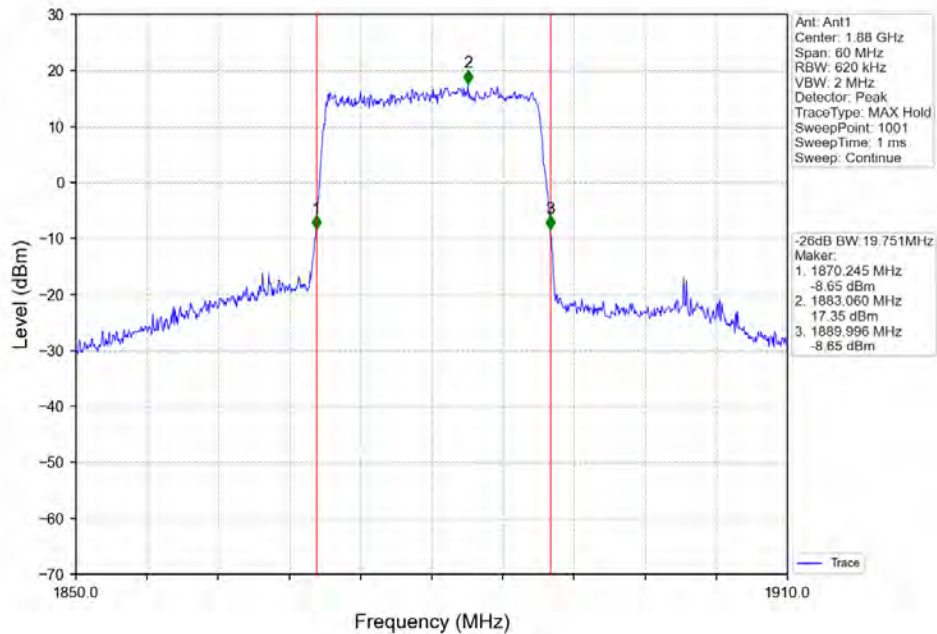


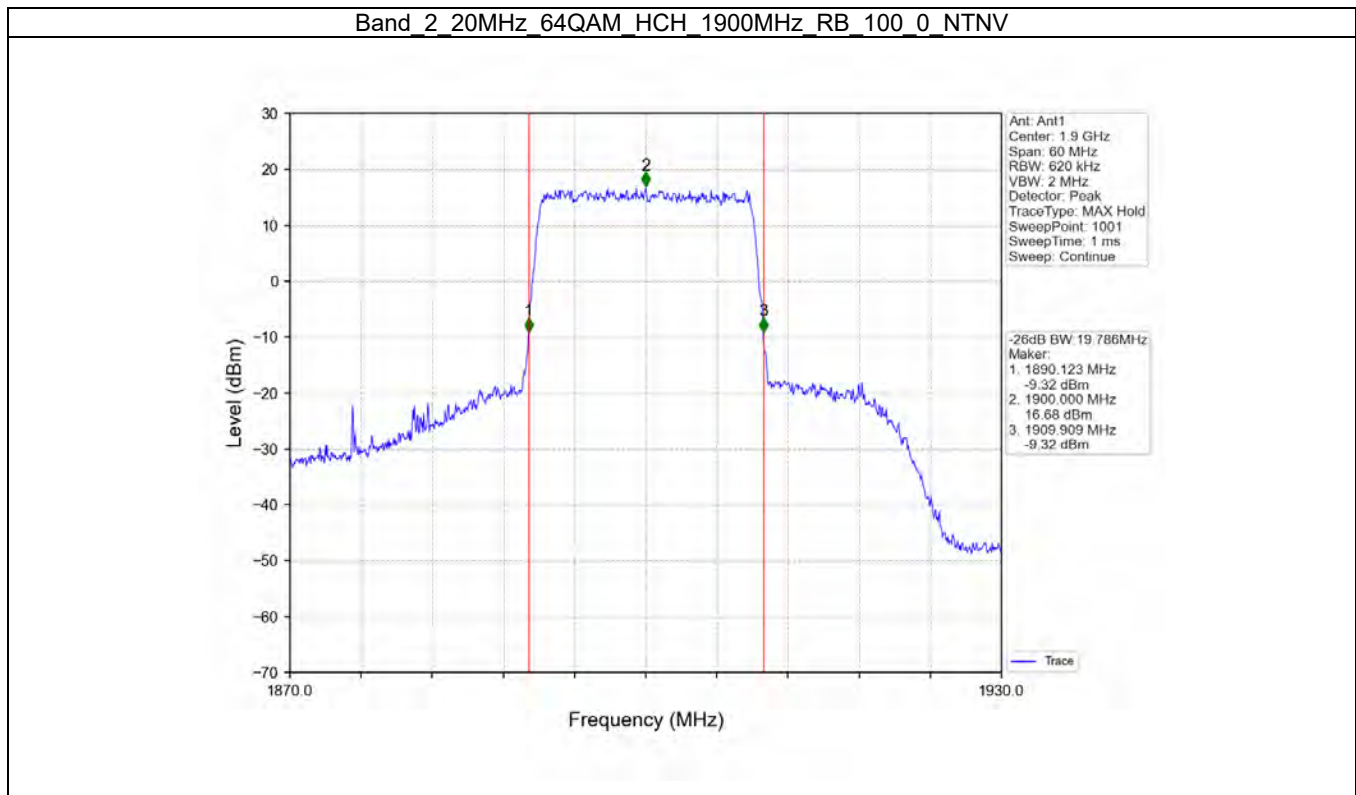


Band 2 20MHz 64QAM LCH 1860MHz RB 100_0_NTNV



Band 2 20MHz 64QAM MCH 1880MHz RB 100_0_NTNV







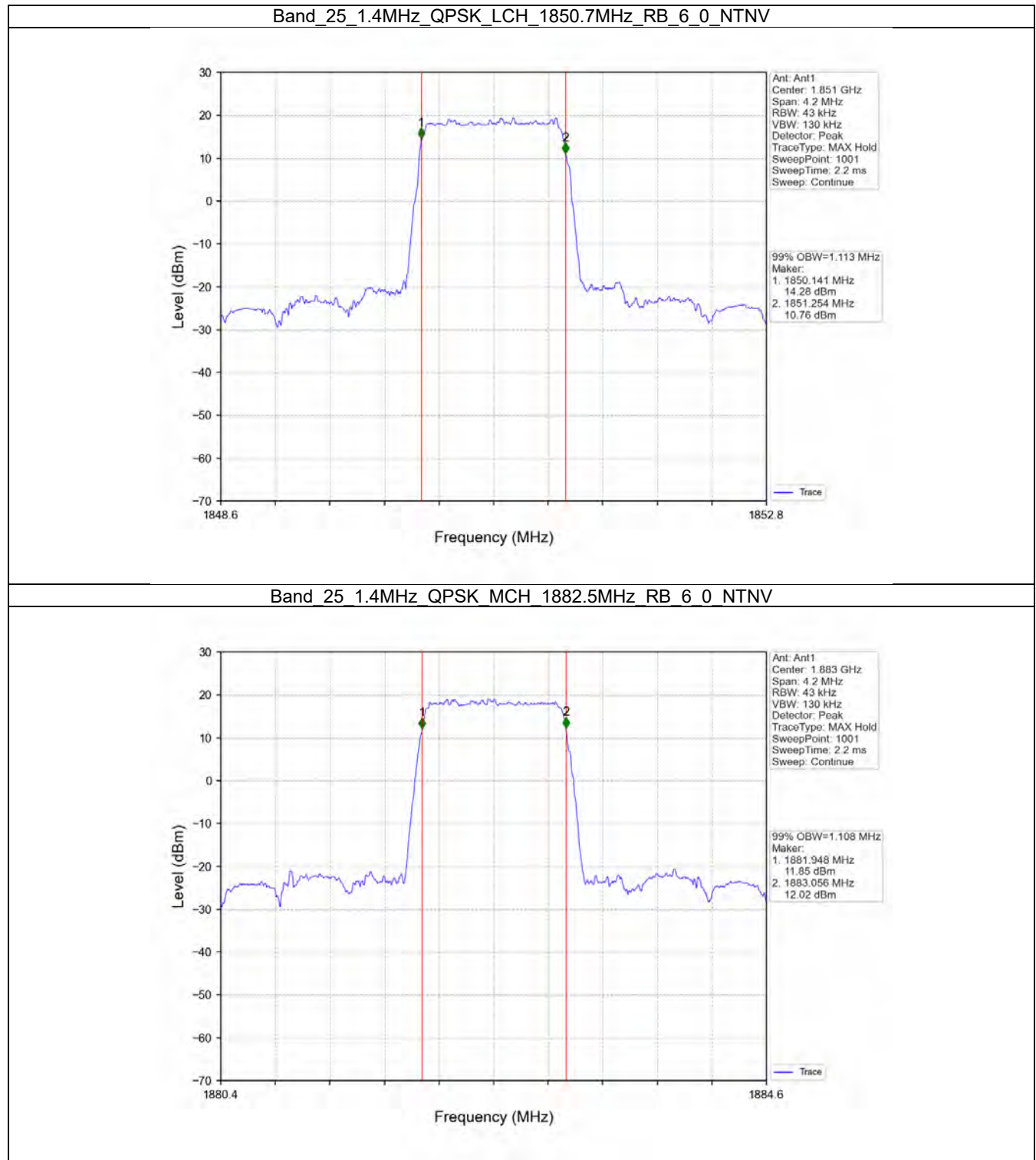
2.7 LTE Band 25 OBW

2.7.1 Test Result

Band: 25 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.113	1.108	1.110	/	Pass
16QAM	6	0	1.108	1.103	1.102	/	Pass
64QAM	6	0	1.101	1.101	1.101	/	Pass
Band: 25 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.739	2.741	2.741	/	Pass
16QAM	15	0	2.755	2.736	2.738	/	Pass
64QAM	15	0	2.741	2.741	2.737	/	Pass
Band: 25 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.565	4.550	4.547	/	Pass
16QAM	25	0	4.543	4.568	4.569	/	Pass
64QAM	25	0	4.537	4.565	4.559	/	Pass
Band: 25 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.026	9.053	9.019	/	Pass
16QAM	50	0	9.056	9.039	9.031	/	Pass
64QAM	50	0	9.020	9.018	9.001	/	Pass
Band: 25 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.500	13.589	13.545	/	Pass
16QAM	75	0	13.517	13.604	13.579	/	Pass
64QAM	75	0	13.537	13.606	13.566	/	Pass
Band: 25 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.016	18.109	18.090	/	Pass
16QAM	100	0	18.14.0	18.132	18.069	/	Pass
64QAM	100	0	18.063	18.089	18.074	/	Pass



2.7.2 Test Graph



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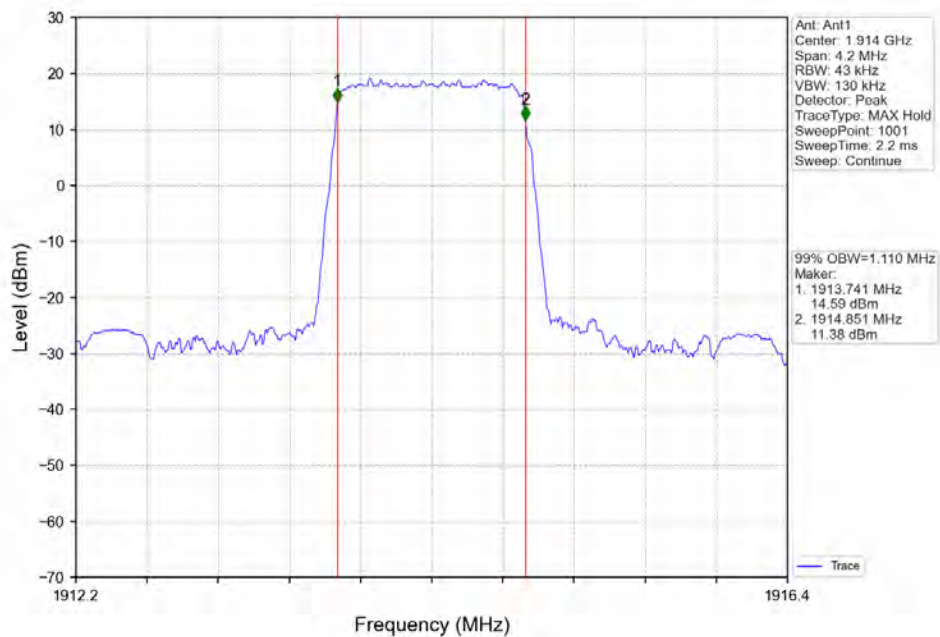
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Fax: +86 755 8869 6577

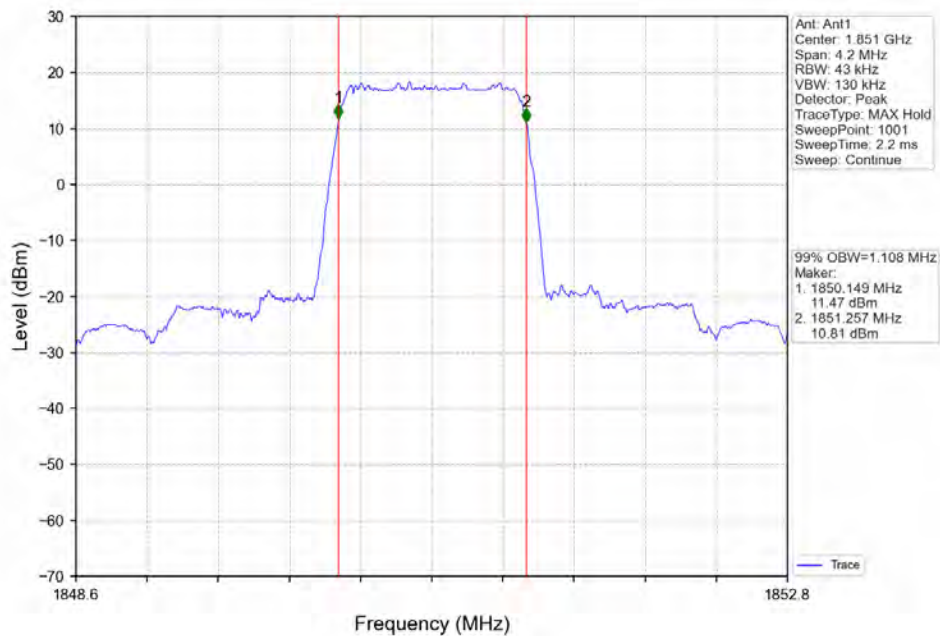
Email: customerservice.sw@bureauveritas.com



Band_25_1.4MHz_QPSK_HCH_1914.3MHz_RB_6_0_NTNV

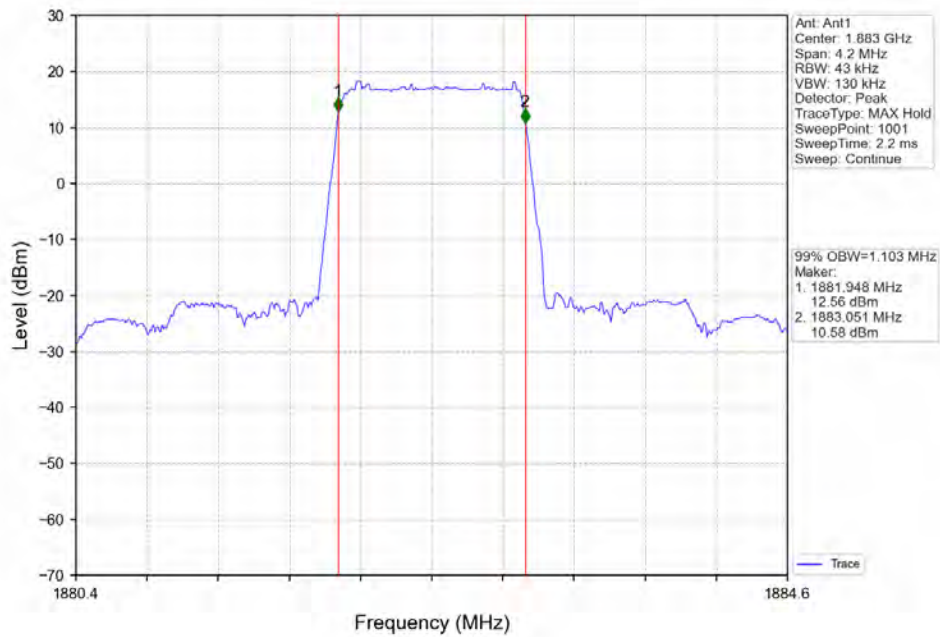


Band_25_1.4MHz_16QAM_LCH_1850.7MHz_RB_6_0_NTNV

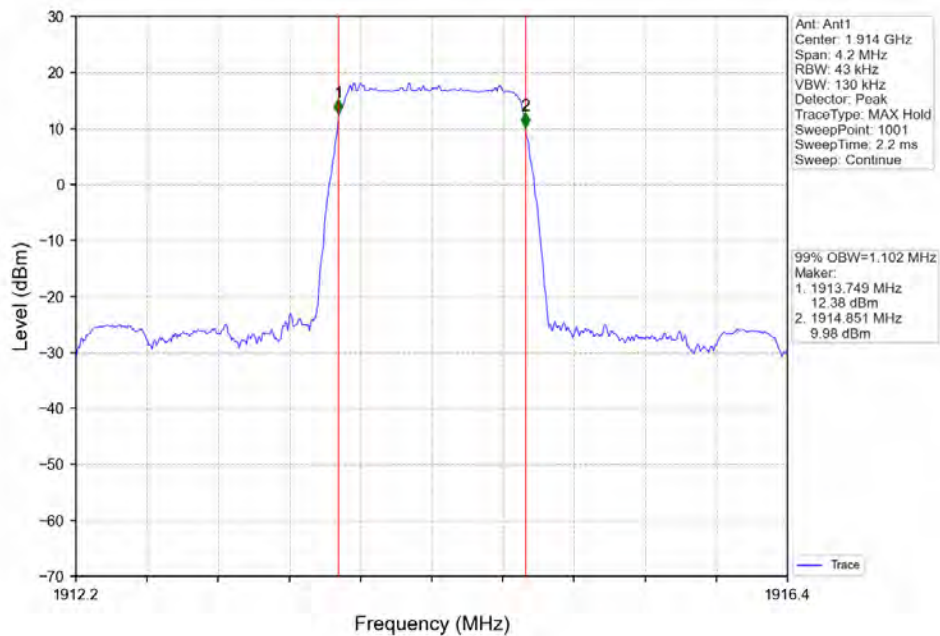




Band_25_1.4MHz_16QAM_MCH_1882.5MHz_RB_6_0_NTNV

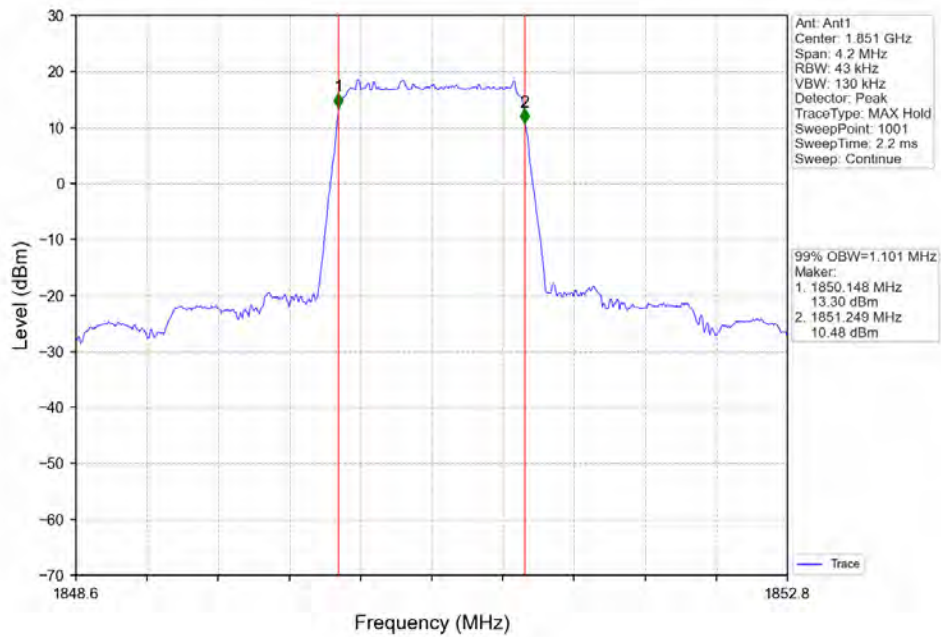


Band_25_1.4MHz_16QAM_HCH_1914.3MHz_RB_6_0_NTNV

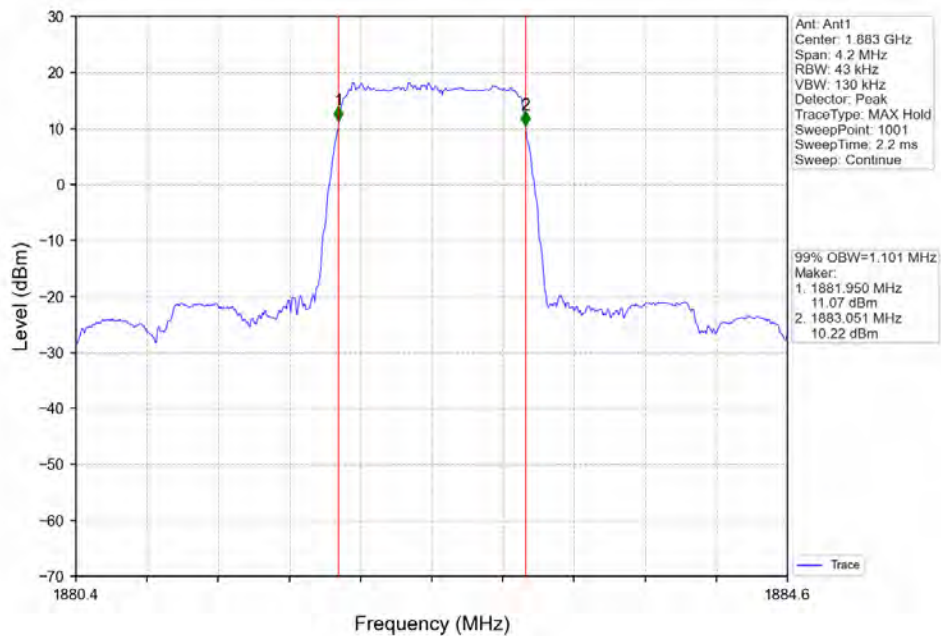


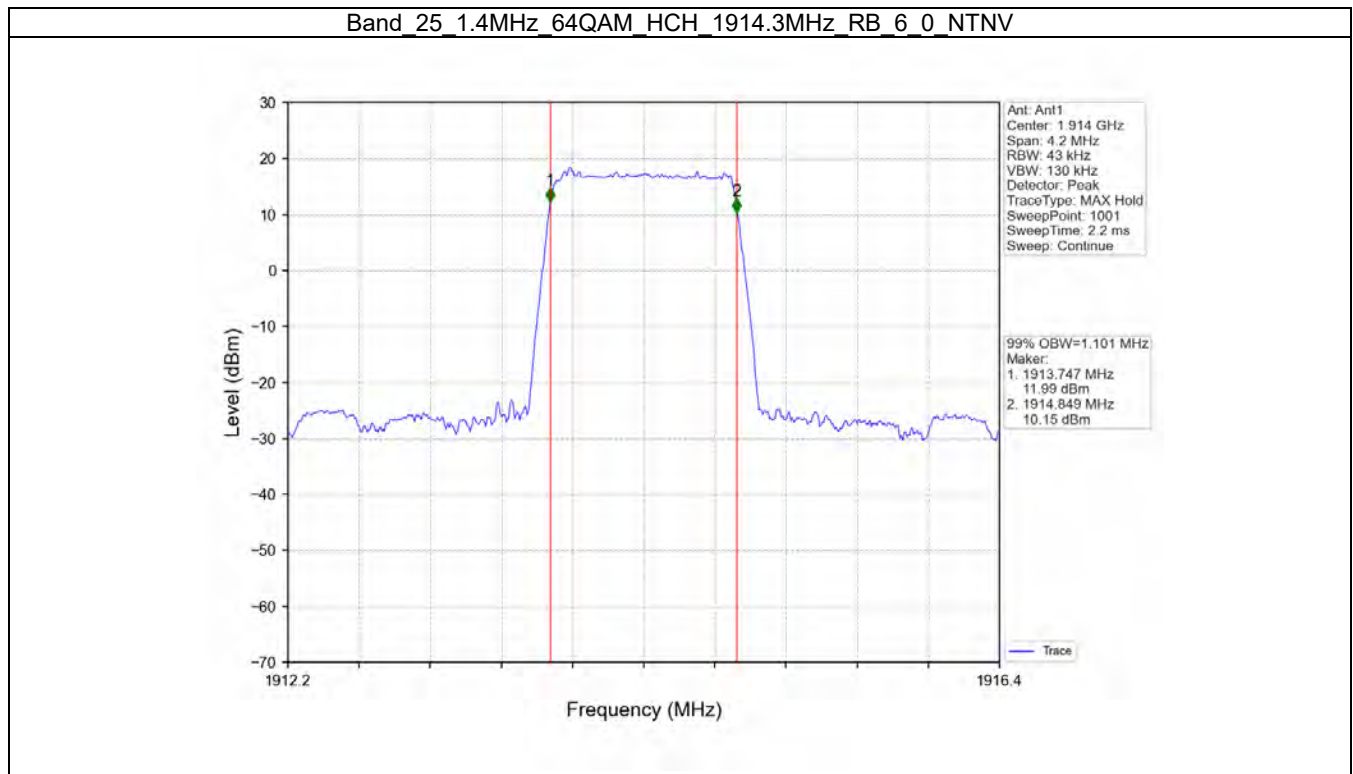


Band_25_1.4MHz_64QAM_LCH_1850.7MHz_RB_6_0_NTNV



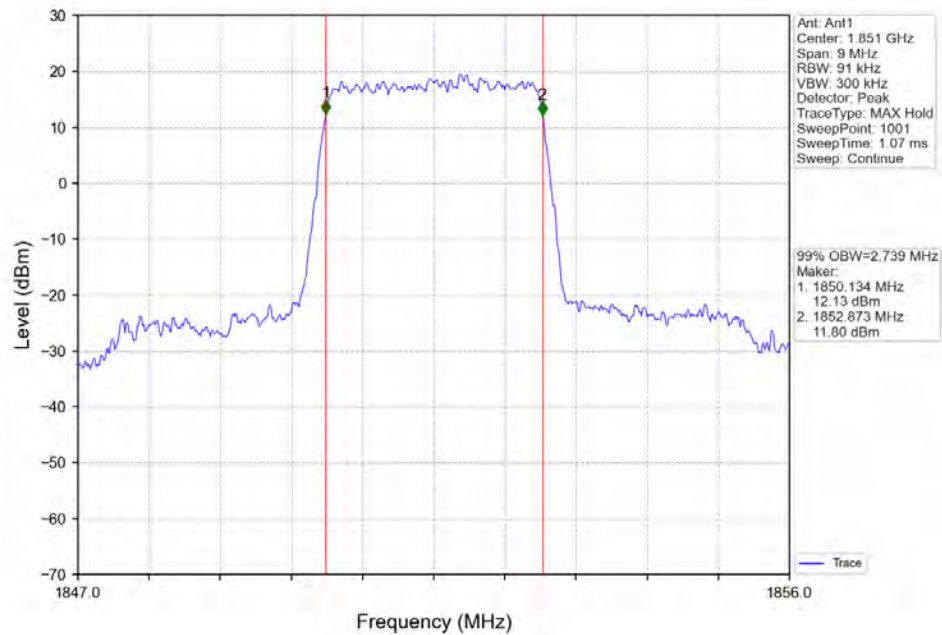
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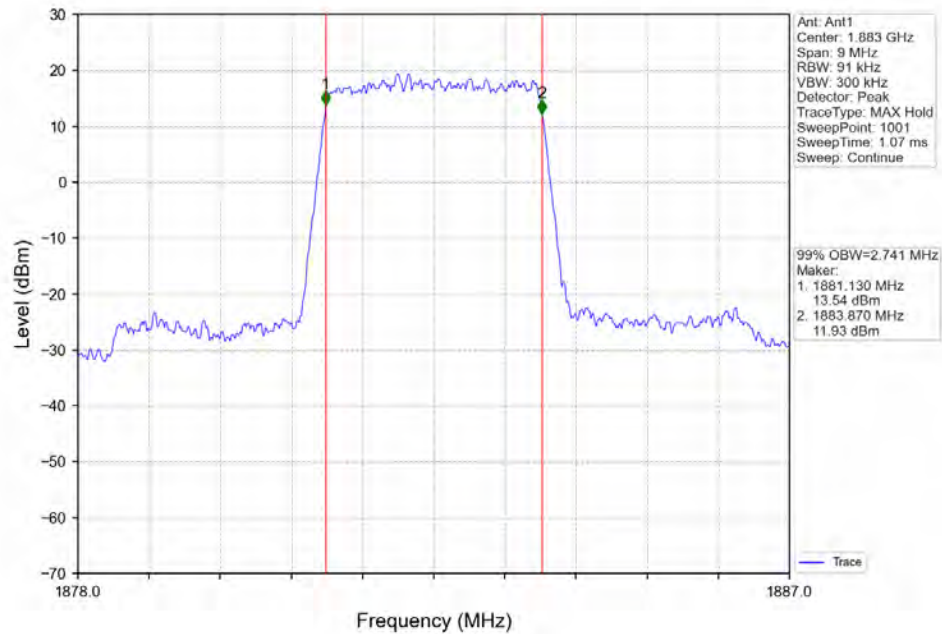




Band_25_3MHz_QPSK_LCH_1851.5MHz_RB_15_0_NTNV

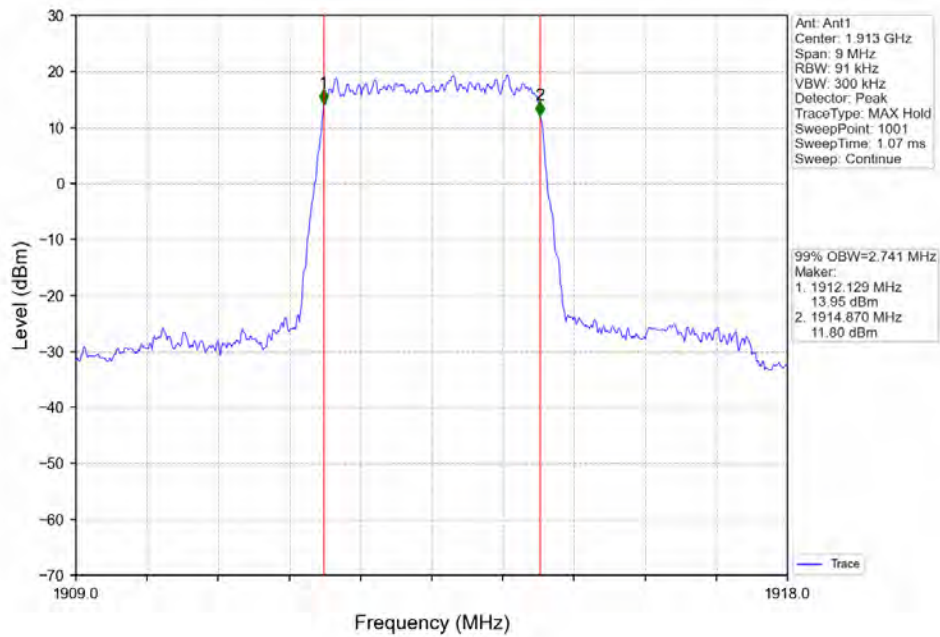


Band_25_3MHz_QPSK_MCH_1882.5MHz_RB_15_0_NTNV

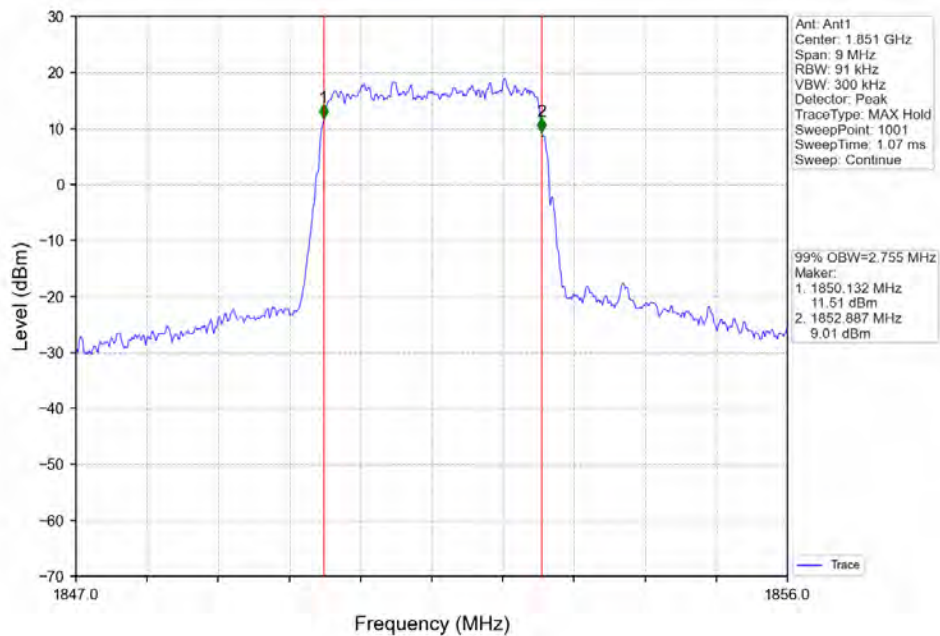




Band_25_3MHz_QPSK_HCH_1913.5MHz_RB_15_0_NTNV

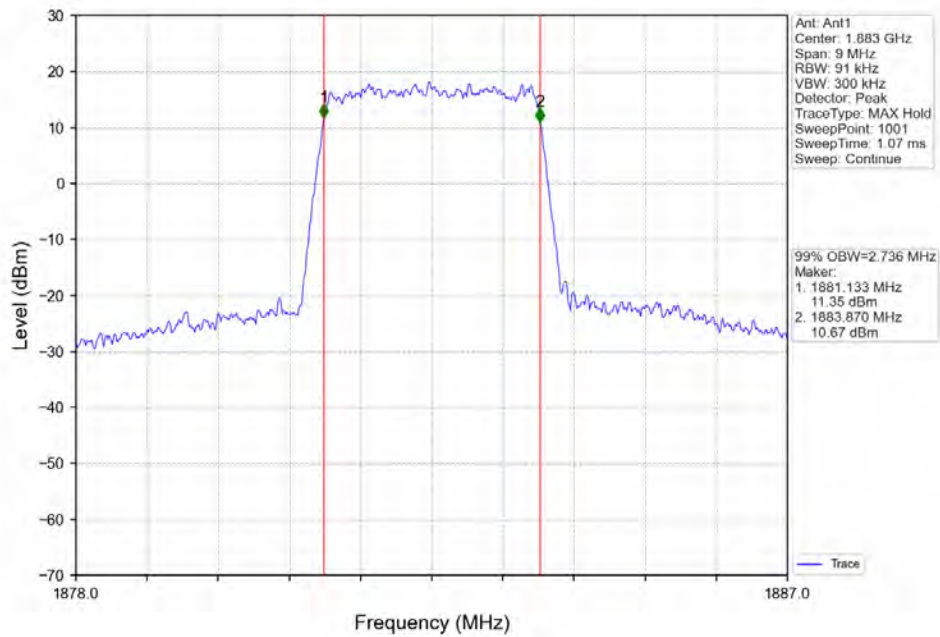


Band_25_3MHz_16QAM_LCH_1851.5MHz_RB_15_0_NTNV





Band_25_3MHz_16QAM_MCH_1882.5MHz_RB_15_0_NTNV



Band_25_3MHz_16QAM_HCH_1913.5MHz_RB_15_0_NTNV

