



**BUREAU**  
**VERITAS**

Test Report No.: W7L-P20210616-3RF03

# FCC TEST REPORT (PART 27)

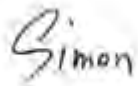
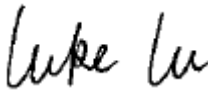
Applicant:	Continental Automotive Systems, Inc.
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Manufacturer or Supplier:	Continental Automotive Systems, Inc.
Address:	21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Product:	FE5NA0020
Brand Name:	Continental
Model Name:	FE5NA0020
FCC ID:	LHJ-FE5NA0020
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 27, Subpart C, M     ANSI/TIA/EIA-603-D
- FCC Part 2                     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

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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# 1. Frequency Stability

## 1.1 LTE Band 4

### 1.1.1 Test Result

Band: 4 / 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	-19.510	3.920	4.430	-0.0114	0.0023	0.0025	-2.5 to 2.5	Pass	
				4.0	-21.840	4.220	3.910	-0.04.08	0.0024	0.0022	-2.5 to 2.5	Pass	
				4.4	-17.180	7.610	4.960	-0.0100	0.0044	0.0028	-2.5 to 2.5	Pass	
			-10	4.0	-6.750	4.260	4.4.00	-0.0039	0.0025	0.0023	-2.5 to 2.5	Pass	
				0	4.0	-8.810	4.00	-3.320	-0.0051	0.0069	-0.0019	-2.5 to 2.5	Pass
				10	4.0	-4.0.320	6.220	4.030	-0.0072	0.0036	0.0023	-2.5 to 2.5	Pass
				30	4.0	-9.800	7.170	2.450	-0.0057	0.0041	0.0014	-2.5 to 2.5	Pass
				40	4.0	-9.130	4.510	-6.690	-0.0053	0.0026	-0.0038	-2.5 to 2.5	Pass
50	4.0	-7.650	15.150	-1.390	-0.0045	0.0087	-0.0008	-2.5 to 2.5	Pass				
16QAM	6	0	20	3.6	1.600	-1.070	-6.340	0.0009	-0.0006	-0.0036	-2.5 to 2.5	Pass	
				4.0	5.420	2.400	-8.650	0.0032	0.0014	-0.0049	-2.5 to 2.5	Pass	
				4.4	-9.560	-4.910	-7.910	-0.0056	-0.0028	-0.0045	-2.5 to 2.5	Pass	
			-10	4.0	-7.170	-1.200	-7.150	-0.0042	-0.0007	-0.0041	-2.5 to 2.5	Pass	
				0	4.0	-5.190	-1.860	-4.510	-0.0030	-0.0011	-0.0026	-2.5 to 2.5	Pass
				10	4.0	-5.480	-0.090	-8.940	-0.0032	-0.0001	-0.0051	-2.5 to 2.5	Pass
				30	4.0	2.320	-2.900	-6.940	0.0014	-0.0017	-0.0040	-2.5 to 2.5	Pass
				40	4.0	-3.520	-3.930	1.040	-0.0021	-0.0023	0.0006	-2.5 to 2.5	Pass
50	4.0	-3.690	0.600	2.420	-0.0022	0.0003	0.0014	-2.5 to 2.5	Pass				
64QAM	6	0	20	3.6	-2.900	0.290	10.440	-0.0017	0.0002	0.0060	-2.5 to 2.5	Pass	
				4.0	-1.820	0.860	10.310	-0.0011	0.0005	0.0059	-2.5 to 2.5	Pass	
				4.4	-10.140	-4.760	6.840	-0.0059	-0.0027	0.0039	-2.5 to 2.5	Pass	
			-10	4.0	-9.760	-3.910	11.240	-0.0057	-0.0023	0.0064	-2.5 to 2.5	Pass	
				0	4.0	-4.220	1.070	-1.000	-0.0025	0.0006	-0.0006	-2.5 to 2.5	Pass
				10	4.0	-4.520	-5.420	0.160	-0.0026	-0.0031	0.0001	-2.5 to 2.5	Pass
				30	4.0	-14.530	0.190	4.780	-0.0085	0.0001	0.0027	-2.5 to 2.5	Pass
				40	4.0	-11.4.00	-8.600	6.720	-0.0065	-0.0050	0.0038	-2.5 to 2.5	Pass
50	4.0	-17.420	-8.810	8.650	-0.0102	-0.0051	0.0049	-2.5 to 2.5	Pass				
Band: 4 / 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	-5.320	5.010	-4.550	-0.0031	0.0029	-0.0026	-2.5 to 2.5	Pass	
				4.0	-14.980	0.030	-4.990	-0.0088	0.0000	-0.0028	-2.5 to 2.5	Pass	
				4.4	-3.280	-4.860	1.000	-0.0019	-0.0028	0.0006	-2.5 to 2.5	Pass	
			-10	4.0	-14.360	2.200	0.470	-0.0084	0.0013	0.0003	-2.5 to 2.5	Pass	
				0	4.0	-4.360	6.720	-0.210	-0.0025	0.0039	-0.0001	-2.5 to 2.5	Pass
				10	4.0	-11.520	4.160	1.520	-0.0067	0.0024	0.0009	-2.5 to 2.5	Pass
				30	4.0	-14.080	-8.270	7.410	-0.0082	-0.0048	0.0042	-2.5 to 2.5	Pass
				40	4.0	-14.410	-5.990	0.390	-0.0084	-0.0035	0.0002	-2.5 to 2.5	Pass
50	4.0	-0.170	-7.350	-5.910	-0.0001	-0.0042	-0.0034	-2.5 to 2.5	Pass				
16QAM	15	0	20	3.6	-11.500	1.4.00	2.070	-0.0067	0.0006	0.004.0	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
Band: 4 / Bandwidth: 5MHz / NTNv													
64QAM	15	0	20	4.0	-1.360	-8.210	-1.470	-0.0008	-0.0047	-0.0008	-2.5 to 2.5	Pass	
				4.4	-4.790	-4.650	1.230	-0.0028	-0.0027	0.0007	-2.5 to 2.5	Pass	
				-10	4.0	-6.920	-0.200	-8.270	-0.0040	-0.0001	-0.0047	-2.5 to 2.5	Pass
				0	4.0	-4.0.870	-0.190	-6.680	-0.0075	-0.0001	-0.0038	-2.5 to 2.5	Pass
				10	4.0	-4.0.320	4.650	2.720	-0.0072	0.0027	0.0016	-2.5 to 2.5	Pass
				30	4.0	-11.100	-3.060	1.130	-0.0065	-0.0018	0.0006	-2.5 to 2.5	Pass
				40	4.0	-10.370	1.920	-6.680	-0.0061	0.0011	-0.0038	-2.5 to 2.5	Pass
				50	4.0	-6.810	-3.520	-1.920	-0.0040	-0.0020	-0.0011	-2.5 to 2.5	Pass
64QAM	15	0	20	3.6	0.040	-5.720	7.300	0.0000	-0.0033	0.0042	-2.5 to 2.5	Pass	
				4.0	-6.540	-3.520	3.150	-0.0038	-0.0020	0.0018	-2.5 to 2.5	Pass	
				4.4	-13.600	0.490	0.570	-0.0079	0.0003	0.0003	-2.5 to 2.5	Pass	
				-10	4.0	-4.0.460	0.510	-0.970	-0.0073	0.0003	-0.0006	-2.5 to 2.5	Pass
				0	4.0	-4.230	3.350	1.400	-0.0025	0.0019	0.0008	-2.5 to 2.5	Pass
				10	4.0	-3.730	2.490	3.520	-0.0022	0.0014	0.0020	-2.5 to 2.5	Pass
				30	4.0	-4.0.770	7.420	-0.860	-0.0075	0.0043	-0.0005	-2.5 to 2.5	Pass
				40	4.0	-4.450	6.050	-3.920	-0.0026	0.0035	-0.0022	-2.5 to 2.5	Pass
50	4.0	-4.0.430	7.320	-5.760	-0.0073	0.0042	-0.0033	-2.5 to 2.5	Pass				
Band: 4 / Bandwidth: 10MHz / NTNv													
QPSK	25	0	20	3.6	-11.460	-7.600	-3.350	-0.0067	-0.0044	-0.0019	-2.5 to 2.5	Pass	
				4.0	-15.640	-6.190	-9.310	-0.0091	-0.0036	-0.0053	-2.5 to 2.5	Pass	
				4.4	-3.630	1.650	1.070	-0.0021	0.0010	0.0006	-2.5 to 2.5	Pass	
				-10	4.0	-3.530	-9.300	-7.480	-0.0021	-0.0054	-0.0043	-2.5 to 2.5	Pass
				0	4.0	-4.0.260	-8.240	1.900	-0.0072	-0.0048	0.0011	-2.5 to 2.5	Pass
				10	4.0	-1.230	1.860	-3.080	-0.0007	0.0011	-0.0018	-2.5 to 2.5	Pass
				30	4.0	-3.590	6.870	0.830	-0.0021	0.0040	0.0005	-2.5 to 2.5	Pass
				40	4.0	-15.050	5.380	8.170	-0.0088	0.0031	0.0047	-2.5 to 2.5	Pass
50	4.0	-5.420	-5.450	7.010	-0.0032	-0.0031	0.0040	-2.5 to 2.5	Pass				
16QAM	25	0	20	3.6	0.330	-1.600	2.030	0.0002	-0.0009	0.004.0	-2.5 to 2.5	Pass	
				4.0	-6.470	-9.210	-2.320	-0.0038	-0.0053	-0.0013	-2.5 to 2.5	Pass	
				4.4	0.270	-5.010	-6.480	0.0002	-0.0029	-0.0037	-2.5 to 2.5	Pass	
				-10	4.0	-8.230	5.970	5.090	-0.0048	0.0034	0.0029	-2.5 to 2.5	Pass
				0	4.0	-8.140	-5.390	6.670	-0.0048	-0.0031	0.0038	-2.5 to 2.5	Pass
				10	4.0	-7.950	-0.110	-8.410	-0.0046	-0.0001	-0.0048	-2.5 to 2.5	Pass
				30	4.0	-15.150	-2.590	3.180	-0.0088	-0.0015	0.0018	-2.5 to 2.5	Pass
				40	4.0	-10.860	6.680	-8.150	-0.0063	0.0039	-0.0047	-2.5 to 2.5	Pass
50	4.0	-4.560	5.380	-2.760	-0.0027	0.0031	-0.0016	-2.5 to 2.5	Pass				
64QAM	25	0	20	3.6	-10.390	-4.560	-1.990	-0.0061	-0.0026	-0.0011	-2.5 to 2.5	Pass	
				4.0	-14.310	4.480	2.720	-0.0084	0.0026	0.0016	-2.5 to 2.5	Pass	
				4.4	-5.140	-4.280	3.100	-0.0030	-0.0025	0.0018	-2.5 to 2.5	Pass	
				-10	4.0	-0.720	6.850	2.220	-0.0004	0.0040	0.0013	-2.5 to 2.5	Pass
				0	4.0	-10.290	-7.070	-6.310	-0.0060	-0.0041	-0.0036	-2.5 to 2.5	Pass
				10	4.0	-7.700	3.030	-2.200	-0.0045	0.0017	-0.0013	-2.5 to 2.5	Pass
				30	4.0	-9.730	5.140	-9.470	-0.0057	0.0030	-0.0054	-2.5 to 2.5	Pass
				40	4.0	-13.020	-5.840	3.390	-0.0076	-0.0034	0.0019	-2.5 to 2.5	Pass
50	4.0	-1.530	3.890	-5.980	-0.0009	0.0022	-0.0034	-2.5 to 2.5	Pass				
Band: 4 / Bandwidth: 10MHz / NTNv													
QPSK	50	0	20	3.6	-4.210	4.220	-0.090	-0.0025	0.0024	-0.0001	-2.5 to 2.5	Pass	
				4.0	1.430	2.720	0.930	0.0008	0.0016	0.0005	-2.5 to 2.5	Pass	
				4.4	0.510	2.780	-4.0.530	0.0003	0.0016	-0.0072	-2.5 to 2.5	Pass	

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			-10	4.0	-5.880	1.160	-8.980	-0.0034	0.0007	-0.0051	-2.5 to 2.5	Pass		
			0	4.0	6.900	-3.530	-7.710	0.0040	-0.0020	-0.0044	-2.5 to 2.5	Pass		
			10	4.0	-1.360	-5.320	-4.530	-0.0008	-0.0031	-0.0026	-2.5 to 2.5	Pass		
			30	4.0	-7.640	-6.880	-14.610	-0.0045	-0.0040	-0.0083	-2.5 to 2.5	Pass		
			40	4.0	2.060	-10.610	-5.920	0.004.0	-0.0061	-0.0034	-2.5 to 2.5	Pass		
			50	4.0	-1.960	3.000	-7.420	-0.0011	0.0017	-0.0042	-2.5 to 2.5	Pass		
16QAM	50	0	20	3.6	-6.920	-7.140	-6.640	-0.0040	-0.0041	-0.0038	-2.5 to 2.5	Pass		
				4.0	3.360	-4.820	-14.550	0.0020	-0.0028	-0.0083	-2.5 to 2.5	Pass		
				4.4	-1.970	-7.370	-2.420	-0.0011	-0.0043	-0.0014	-2.5 to 2.5	Pass		
			-10	0	0	4.0	-6.440	-6.320	-5.580	-0.0038	-0.0036	-0.0032	-2.5 to 2.5	Pass
						4.0	6.240	0.600	-10.240	0.0036	0.0003	-0.0059	-2.5 to 2.5	Pass
						4.0	0.400	3.560	-13.220	0.0002	0.0021	-0.0076	-2.5 to 2.5	Pass
						4.0	3.130	-5.780	-2.650	0.0018	-0.0033	-0.0015	-2.5 to 2.5	Pass
						4.0	-5.240	5.320	-1.270	-0.0031	0.0031	-0.0007	-2.5 to 2.5	Pass
						4.0	5.020	3.630	-6.420	0.0029	0.0021	-0.0037	-2.5 to 2.5	Pass
64QAM	50	0	20	3.6	1.440	-2.950	-0.990	0.0008	-0.0017	-0.0006	-2.5 to 2.5	Pass		
				4.0	-4.4.00	-3.680	-9.710	-0.0024	-0.0021	-0.0055	-2.5 to 2.5	Pass		
				4.4	-6.410	-7.340	-7.510	-0.0037	-0.0042	-0.0043	-2.5 to 2.5	Pass		
			-10	0	0	4.0	-2.200	-1.890	-9.430	-0.0013	-0.0011	-0.0054	-2.5 to 2.5	Pass
						4.0	0.330	-6.140	-4.280	0.0002	-0.0035	-0.0024	-2.5 to 2.5	Pass
						4.0	-1.690	-2.130	-1.420	-0.0010	-0.004.0	-0.0008	-2.5 to 2.5	Pass
						4.0	-4.810	2.230	-4.630	-0.0028	0.0013	-0.0026	-2.5 to 2.5	Pass
						4.0	-3.480	1.830	-11.200	-0.0020	0.0011	-0.0064	-2.5 to 2.5	Pass
						4.0	-5.090	0.720	-2.720	-0.0030	0.0004	-0.0016	-2.5 to 2.5	Pass
Band: 4 / Bandwidth: 15MHz / NTN														
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	4.560	-2.680	4.160	0.0027	-0.0015	0.0024	-2.5 to 2.5	Pass		
				4.0	5.320	-3.890	-1.890	0.0031	-0.0022	-0.0011	-2.5 to 2.5	Pass		
				4.4	-5.590	-2.990	3.300	-0.0033	-0.0017	0.0019	-2.5 to 2.5	Pass		
			-10	0	0	4.0	1.220	0.410	-10.070	0.0007	0.0002	-0.0058	-2.5 to 2.5	Pass
						4.0	-6.420	-8.350	-7.640	-0.0037	-0.0048	-0.0044	-2.5 to 2.5	Pass
						4.0	0.840	0.540	7.010	0.0005	0.0003	0.0040	-2.5 to 2.5	Pass
						4.0	6.190	-3.4.00	-7.020	0.0036	-0.0018	-0.0040	-2.5 to 2.5	Pass
						4.0	-1.850	-5.580	-2.060	-0.0011	-0.0032	-0.004.0	-2.5 to 2.5	Pass
						4.0	7.340	5.310	-3.680	0.0043	0.0031	-0.0021	-2.5 to 2.5	Pass
16QAM	75	0	20	3.6	-5.870	0.210	-2.030	-0.0034	0.0001	-0.004.0	-2.5 to 2.5	Pass		
				4.0	3.080	0.940	-3.690	0.0018	0.0005	-0.0021	-2.5 to 2.5	Pass		
				4.4	-8.240	-0.210	0.010	-0.0048	-0.0001	0.0000	-2.5 to 2.5	Pass		
			-10	0	0	4.0	-4.710	2.090	-2.820	-0.0027	0.004.0	-0.0016	-2.5 to 2.5	Pass
						4.0	1.930	-4.290	4.380	0.0011	-0.0025	0.0025	-2.5 to 2.5	Pass
						4.0	0.110	2.000	-7.080	0.0001	0.004.0	-0.0041	-2.5 to 2.5	Pass
						4.0	5.010	-9.330	-2.070	0.0029	-0.0054	-0.004.0	-2.5 to 2.5	Pass
						4.0	-2.160	-0.140	3.250	-0.0013	-0.0001	0.0019	-2.5 to 2.5	Pass
						4.0	4.560	1.500	1.160	0.0027	0.0009	0.0007	-2.5 to 2.5	Pass
64QAM	75	0	20	3.6	-8.310	2.850	-4.750	-0.0048	0.0016	-0.0027	-2.5 to 2.5	Pass		
				4.0	-0.430	0.530	5.490	-0.0003	0.0003	0.0031	-2.5 to 2.5	Pass		
				4.4	-8.830	1.040	-1.060	-0.0051	0.0006	-0.0006	-2.5 to 2.5	Pass		
			-10	0	0	4.0	-3.350	-0.200	1.660	-0.0020	-0.0001	0.0009	-2.5 to 2.5	Pass
						4.0	-4.480	-2.170	-5.610	-0.0026	-0.0013	-0.0032	-2.5 to 2.5	Pass
						4.0	-9.880	-1.790	-4.920	-0.0058	-0.0010	-0.0028	-2.5 to 2.5	Pass
						4.0	-3.250	-4.730	4.310	-0.0019	-0.0027	0.0025	-2.5 to 2.5	Pass
						4.0	-1.200	1.930	1.690	-0.0007	0.0011	0.0010	-2.5 to 2.5	Pass

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				50	4.0	5.350	-7.640	-2.430	0.0031	-0.0044	-0.0014	-2.5 to 2.5	Pass
Band: 4 / Bandwidth: 20MHz / NTN													
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	-1.540	4.230	0.970	-0.0009	0.0024	0.0006	-2.5 to 2.5	Pass	
				4.0	-8.880	2.780	-1.970	-0.0052	0.0016	-0.0011	-2.5 to 2.5	Pass	
				4.4	1.730	-1.620	-8.240	0.0010	-0.0009	-0.0047	-2.5 to 2.5	Pass	
			-10	4.0	-6.070	-6.650	-1.970	-0.0035	-0.0038	-0.0011	-2.5 to 2.5	Pass	
			0	4.0	5.740	-3.950	-1.460	0.0033	-0.0023	-0.0008	-2.5 to 2.5	Pass	
			10	4.0	1.660	0.640	-2.900	0.0010	0.0004	-0.0017	-2.5 to 2.5	Pass	
			30	4.0	4.450	-1.320	1.670	0.0026	-0.0008	0.0010	-2.5 to 2.5	Pass	
			40	4.0	-3.100	4.650	3.620	-0.0018	0.0027	0.0021	-2.5 to 2.5	Pass	
50	4.0	3.590	0.620	2.230	0.0021	0.0004	0.0013	-2.5 to 2.5	Pass				
16QAM	100	0	20	3.6	3.400	-3.360	-9.270	0.0020	-0.0019	-0.0053	-2.5 to 2.5	Pass	
				4.0	-4.460	0.100	-9.040	-0.0026	0.0001	-0.0052	-2.5 to 2.5	Pass	
				4.4	4.530	5.850	-4.050	0.0026	0.0034	-0.0023	-2.5 to 2.5	Pass	
			-10	4.0	-2.990	1.030	-6.390	-0.0017	0.0006	-0.0037	-2.5 to 2.5	Pass	
			0	4.0	5.580	-3.850	0.110	0.0032	-0.0022	0.0001	-2.5 to 2.5	Pass	
			10	4.0	2.400	0.890	-5.890	0.0040	0.0005	-0.0034	-2.5 to 2.5	Pass	
			30	4.0	-4.080	-8.550	-4.350	-0.0024	-0.0049	-0.0025	-2.5 to 2.5	Pass	
			40	4.0	-5.020	2.000	-3.560	-0.0029	0.0040	-0.0020	-2.5 to 2.5	Pass	
50	4.0	2.400	-8.740	-6.900	0.0014	-0.0050	-0.0040	-2.5 to 2.5	Pass				
64QAM	100	0	20	3.6	0.530	-7.270	-8.510	0.0003	-0.0042	-0.0049	-2.5 to 2.5	Pass	
				4.0	-2.250	6.720	0.530	-0.0013	0.0039	0.0003	-2.5 to 2.5	Pass	
				4.4	-9.010	-0.700	0.890	-0.0052	-0.0004	0.0005	-2.5 to 2.5	Pass	
			-10	4.0	-4.780	-1.130	-1.800	-0.0028	-0.0007	-0.0010	-2.5 to 2.5	Pass	
			0	4.0	-4.480	4.080	-2.620	-0.0026	0.0024	-0.0015	-2.5 to 2.5	Pass	
			10	4.0	-2.090	4.460	4.410	-0.0040	0.0026	0.0025	-2.5 to 2.5	Pass	
			30	4.0	-4.820	-4.510	-8.850	-0.0028	-0.0026	-0.0051	-2.5 to 2.5	Pass	
			40	4.0	-5.950	-5.400	-0.760	-0.0035	-0.0030	-0.0004	-2.5 to 2.5	Pass	
50	4.0	3.350	3.460	-7.740	0.0019	0.0020	-0.0044	-2.5 to 2.5	Pass				

1.2 LTE Band7

1.2.1 Test Result

Band: 7 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2502.5	25	0	20	3.6	0.72	0.00	-2.5 to 2.5	Pass	
					4.0	-2.47	-0.00	-2.5 to 2.5	Pass	
					4.4	-4.06	-0.00	-2.5 to 2.5	Pass	
				-10	4.0	6.39	0.00	-2.5 to 2.5	Pass	
				0	4.0	2.75	0.00	-2.5 to 2.5	Pass	
				10	4.0	-0.20	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-2.22	-0.00	-2.5 to 2.5	Pass	
				40	4.0	-3.08	-0.00	-2.5 to 2.5	Pass	
	50	4.0	-6.37	-0.00	-2.5 to 2.5	Pass				
2535	25	0	20	3.6	4.29	0.00	-2.5 to 2.5	Pass		
				4.0	4.65	0.00	-2.5 to 2.5	Pass		
				4.4	8.64	0.00	-2.5 to 2.5	Pass		

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				-10	4.0	9.64	0.00	-2.5 to 2.5	Pass						
				0	4.0	-5.40	-0.00	-2.5 to 2.5	Pass						
				10	4.0	4.03	0.00	-2.5 to 2.5	Pass						
				30	4.0	7.78	0.00	-2.5 to 2.5	Pass						
				40	4.0	7.80	0.00	-2.5 to 2.5	Pass						
				50	4.0	5.87	0.00	-2.5 to 2.5	Pass						
	2567.5	25	0	20	3.6	-16.58	-0.01	-2.5 to 2.5	Pass						
					4.0	-18.22	-0.01	-2.5 to 2.5	Pass						
					4.4	-4.28	-0.00	-2.5 to 2.5	Pass						
				-10	0	0	0	4.0	-6.78	-0.00	-2.5 to 2.5	Pass			
								4.0	-10.10	-0.00	-2.5 to 2.5	Pass			
								4.0	-11.42	-0.00	-2.5 to 2.5	Pass			
								4.0	-14.20	-0.01	-2.5 to 2.5	Pass			
								4.0	-14.93	-0.01	-2.5 to 2.5	Pass			
								4.0	-14.79	-0.01	-2.5 to 2.5	Pass			
16QAM	2502.5	25	0	20	3.6	-3.75	-0.00	-2.5 to 2.5	Pass						
					4.0	-6.58	-0.00	-2.5 to 2.5	Pass						
					4.4	-6.51	-0.00	-2.5 to 2.5	Pass						
				-10	0	0	0	4.0	-3.39	-0.00	-2.5 to 2.5	Pass			
								4.0	-2.57	-0.00	-2.5 to 2.5	Pass			
								4.0	1.00	0.00	-2.5 to 2.5	Pass			
								4.0	3.55	0.00	-2.5 to 2.5	Pass			
								4.0	6.29	0.00	-2.5 to 2.5	Pass			
								4.0	5.89	0.00	-2.5 to 2.5	Pass			
				2535	25	0	20	3.6	4.89	0.00	-2.5 to 2.5	Pass			
								4.0	4.15	0.00	-2.5 to 2.5	Pass			
								4.4	2.50	0.00	-2.5 to 2.5	Pass			
	-10	0	0				0	4.0	3.69	0.00	-2.5 to 2.5	Pass			
								4.0	6.32	0.00	-2.5 to 2.5	Pass			
								4.0	7.44	0.00	-2.5 to 2.5	Pass			
								4.0	8.20	0.00	-2.5 to 2.5	Pass			
								4.0	8.45	0.00	-2.5 to 2.5	Pass			
								4.0	-7.11	-0.00	-2.5 to 2.5	Pass			
	2567.5	25	0				20	3.6	-16.45	-0.01	-2.5 to 2.5	Pass			
								4.0	-4.017	-0.00	-2.5 to 2.5	Pass			
								4.4	-4.087	-0.01	-2.5 to 2.5	Pass			
							-10	0	0	0	4.0	-9.27	-0.00	-2.5 to 2.5	Pass
											4.0	-8.04	-0.00	-2.5 to 2.5	Pass
											4.0	-7.18	-0.00	-2.5 to 2.5	Pass
											4.0	-6.77	-0.00	-2.5 to 2.5	Pass
											4.0	-4.98	-0.00	-2.5 to 2.5	Pass
											4.0	-4.66	-0.00	-2.5 to 2.5	Pass
	64QAM	2502.5	25	0	20	3.6	8.96	0.00	-2.5 to 2.5	Pass					
						4.0	-5.52	-0.00	-2.5 to 2.5	Pass					
						4.4	-3.06	-0.00	-2.5 to 2.5	Pass					
-10					0	0	0	4.0	-2.25	-0.00	-2.5 to 2.5	Pass			
								4.0	-4.11	-0.00	-2.5 to 2.5	Pass			
								4.0	-4.96	-0.00	-2.5 to 2.5	Pass			
								4.0	-5.21	-0.00	-2.5 to 2.5	Pass			
								4.0	-6.11	-0.00	-2.5 to 2.5	Pass			
								4.0	-4.52	-0.00	-2.5 to 2.5	Pass			
2535					25	0	20	3.6	3.45	0.00	-2.5 to 2.5	Pass			
								4.0	-8.44	-0.00	-2.5 to 2.5	Pass			

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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
Band: 7 / Bandwidth: 10MHz										
QPSK	2567.5	25	0	20	4.4	-4.59	-0.00	-2.5 to 2.5	Pass	
					-10	4.0	-1.66	-0.00	-2.5 to 2.5	Pass
					0	4.0	-2.32	-0.00	-2.5 to 2.5	Pass
					10	4.0	-3.99	-0.00	-2.5 to 2.5	Pass
					30	4.0	-3.66	-0.00	-2.5 to 2.5	Pass
					40	4.0	-2.22	-0.00	-2.5 to 2.5	Pass
				50	4.0	-2.40	-0.00	-2.5 to 2.5	Pass	
				20	3.6	-15.16	-0.01	-2.5 to 2.5	Pass	
					4.0	-15.01	-0.01	-2.5 to 2.5	Pass	
					4.4	-5.56	-0.00	-2.5 to 2.5	Pass	
					-10	4.0	-0.74	-0.00	-2.5 to 2.5	Pass
					0	4.0	-2.03	-0.00	-2.5 to 2.5	Pass
	10	4.0	-4.82		-0.00	-2.5 to 2.5	Pass			
	2505	50	0	20	3.6	-6.27	-0.00	-2.5 to 2.5	Pass	
					4.0	7.67	0.00	-2.5 to 2.5	Pass	
					4.4	7.54	0.00	-2.5 to 2.5	Pass	
					-10	4.0	4.46	0.00	-2.5 to 2.5	Pass
					0	4.0	2.02	0.00	-2.5 to 2.5	Pass
					10	4.0	-0.06	0.00	-2.5 to 2.5	Pass
				20	3.6	-5.61	-0.00	-2.5 to 2.5	Pass	
					4.0	5.88	0.00	-2.5 to 2.5	Pass	
					4.4	1.00	0.00	-2.5 to 2.5	Pass	
					-10	4.0	-1.23	-0.00	-2.5 to 2.5	Pass
					0	4.0	-5.34	-0.00	-2.5 to 2.5	Pass
10					4.0	-6.49	-0.00	-2.5 to 2.5	Pass	
2535	50	0	20	3.6	-3.32	-0.00	-2.5 to 2.5	Pass		
				4.0	-1.29	-0.00	-2.5 to 2.5	Pass		
				4.4	-2.05	-0.00	-2.5 to 2.5	Pass		
				-10	4.0	3.81	0.00	-2.5 to 2.5	Pass	
				0	4.0	-7.91	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-3.93	-0.00	-2.5 to 2.5	Pass	
			20	3.6	-5.61	-0.00	-2.5 to 2.5	Pass		
				4.0	5.88	0.00	-2.5 to 2.5	Pass		
				4.4	1.00	0.00	-2.5 to 2.5	Pass		
				-10	4.0	-1.23	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-5.34	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-6.49	-0.00	-2.5 to 2.5	Pass	
2565	50	0	20	3.6	-3.32	-0.00	-2.5 to 2.5	Pass		
				4.0	-1.29	-0.00	-2.5 to 2.5	Pass		
				4.4	-2.05	-0.00	-2.5 to 2.5	Pass		
				-10	4.0	3.81	0.00	-2.5 to 2.5	Pass	
				0	4.0	-7.91	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-3.93	-0.00	-2.5 to 2.5	Pass	
			20	3.6	-5.61	-0.00	-2.5 to 2.5	Pass		
				4.0	5.88	0.00	-2.5 to 2.5	Pass		
				4.4	1.00	0.00	-2.5 to 2.5	Pass		
				-10	4.0	-1.23	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-5.34	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-6.49	-0.00	-2.5 to 2.5	Pass	
16QAM	2505	50	0	3.6	-3.32	-0.00	-2.5 to 2.5	Pass		
				4.0	-1.29	-0.00	-2.5 to 2.5	Pass		
				4.4	-2.05	-0.00	-2.5 to 2.5	Pass		
				-10	4.0	3.81	0.00	-2.5 to 2.5	Pass	
				0	4.0	-7.91	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-3.93	-0.00	-2.5 to 2.5	Pass	

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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
64QAM	2535	50	0	40	4.0	1.52	0.00	-2.5 to 2.5	Pass			
				50	4.0	0.74	0.00	-2.5 to 2.5	Pass			
				20	3.6	7.38	0.00	-2.5 to 2.5	Pass			
					4.0	5.26	0.00	-2.5 to 2.5	Pass			
					4.4	5.75	0.00	-2.5 to 2.5	Pass			
				-10	4.0	5.09	0.00	-2.5 to 2.5	Pass			
				0	4.0	-7.22	-0.00	-2.5 to 2.5	Pass			
				10	4.0	-8.37	-0.00	-2.5 to 2.5	Pass			
				30	4.0	-5.26	-0.00	-2.5 to 2.5	Pass			
				40	4.0	-3.46	-0.00	-2.5 to 2.5	Pass			
				50	4.0	-0.76	-0.00	-2.5 to 2.5	Pass			
				2565	50	0	20	3.6	-0.84	-0.00	-2.5 to 2.5	Pass
								4.0	0.62	0.00	-2.5 to 2.5	Pass
								4.4	4.01	0.00	-2.5 to 2.5	Pass
	-10	4.0	7.50				0.00	-2.5 to 2.5	Pass			
	0	4.0	6.02				0.00	-2.5 to 2.5	Pass			
	10	4.0	6.90				0.00	-2.5 to 2.5	Pass			
	30	4.0	6.88				0.00	-2.5 to 2.5	Pass			
	40	4.0	7.88				0.00	-2.5 to 2.5	Pass			
	50	4.0	-3.98				-0.00	-2.5 to 2.5	Pass			
	2505	50	0				20	3.6	2.30	0.00	-2.5 to 2.5	Pass
								4.0	2.10	0.00	-2.5 to 2.5	Pass
								4.4	4.56	0.00	-2.5 to 2.5	Pass
							-10	4.0	6.31	0.00	-2.5 to 2.5	Pass
							0	4.0	3.52	0.00	-2.5 to 2.5	Pass
				10	4.0	5.69	0.00	-2.5 to 2.5	Pass			
				30	4.0	-4.18	-0.00	-2.5 to 2.5	Pass			
				40	4.0	5.19	0.00	-2.5 to 2.5	Pass			
50				4.0	3.81	0.00	-2.5 to 2.5	Pass				
2535				50	0	20	3.6	7.01	0.00	-2.5 to 2.5	Pass	
							4.0	7.85	0.00	-2.5 to 2.5	Pass	
							4.4	7.70	0.00	-2.5 to 2.5	Pass	
						-10	4.0	8.37	0.00	-2.5 to 2.5	Pass	
						0	4.0	2.07	0.00	-2.5 to 2.5	Pass	
	10	4.0	-4.16			-0.00	-2.5 to 2.5	Pass				
	30	4.0	-3.46			-0.00	-2.5 to 2.5	Pass				
	40	4.0	-7.18			-0.00	-2.5 to 2.5	Pass				
	50	4.0	-6.14			-0.00	-2.5 to 2.5	Pass				
	2565	50	0			20	3.6	-6.95	-0.00	-2.5 to 2.5	Pass	
							4.0	6.44	0.00	-2.5 to 2.5	Pass	
							4.4	7.21	0.00	-2.5 to 2.5	Pass	
						-10	4.0	5.42	0.00	-2.5 to 2.5	Pass	
						0	4.0	6.14	0.00	-2.5 to 2.5	Pass	
10				4.0	4.52	0.00	-2.5 to 2.5	Pass				
30				4.0	2.36	0.00	-2.5 to 2.5	Pass				
40				4.0	-0.04	0.00	-2.5 to 2.5	Pass				
50				4.0	1.89	0.00	-2.5 to 2.5	Pass				
Band: 7 / Bandwidth: 15MHz												
QPSK				2507.5	75	0	20	3.6	-3.55	-0.00	-2.5 to 2.5	Pass
								4.0	-5.84	-0.00	-2.5 to 2.5	Pass
								4.4	-0.50	-0.00	-2.5 to 2.5	Pass

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				-10	4.0	7.27	0.00	-2.5 to 2.5	Pass
				0	4.0	-0.13	-0.00	-2.5 to 2.5	Pass
				10	4.0	0.11	0.00	-2.5 to 2.5	Pass
				30	4.0	5.06	0.00	-2.5 to 2.5	Pass
				40	4.0	1.29	0.00	-2.5 to 2.5	Pass
				50	4.0	-0.90	-0.00	-2.5 to 2.5	Pass
	2535	75	0	20	3.6	0.69	0.00	-2.5 to 2.5	Pass
					4.0	2.03	0.00	-2.5 to 2.5	Pass
					4.4	4.26	0.00	-2.5 to 2.5	Pass
				-10	4.0	2.85	0.00	-2.5 to 2.5	Pass
				0	4.0	-1.75	-0.00	-2.5 to 2.5	Pass
				10	4.0	-3.95	-0.00	-2.5 to 2.5	Pass
				30	4.0	-6.44	-0.00	-2.5 to 2.5	Pass
				40	4.0	8.44	0.00	-2.5 to 2.5	Pass
	2562.5	75	0	20	3.6	0.57	0.00	-2.5 to 2.5	Pass
					4.0	0.50	0.00	-2.5 to 2.5	Pass
					4.4	-2.93	-0.00	-2.5 to 2.5	Pass
				-10	4.0	-6.91	-0.00	-2.5 to 2.5	Pass
				0	4.0	2.02	0.00	-2.5 to 2.5	Pass
				10	4.0	4.15	0.00	-2.5 to 2.5	Pass
				30	4.0	1.00	0.00	-2.5 to 2.5	Pass
40				4.0	-3.35	-0.00	-2.5 to 2.5	Pass	
16QAM	2507.5	75	0	20	3.6	8.33	0.00	-2.5 to 2.5	Pass
					4.0	-5.46	-0.00	-2.5 to 2.5	Pass
					4.4	1.43	0.00	-2.5 to 2.5	Pass
				-10	4.0	1.03	0.00	-2.5 to 2.5	Pass
				0	4.0	-2.19	-0.00	-2.5 to 2.5	Pass
				10	4.0	-1.82	-0.00	-2.5 to 2.5	Pass
				30	4.0	-3.63	-0.00	-2.5 to 2.5	Pass
				40	4.0	-0.01	0.00	-2.5 to 2.5	Pass
	2535	75	0	20	3.6	6.81	0.00	-2.5 to 2.5	Pass
					4.0	0.21	0.00	-2.5 to 2.5	Pass
					4.4	-4.75	-0.00	-2.5 to 2.5	Pass
				-10	4.0	-4.01	-0.00	-2.5 to 2.5	Pass
				0	4.0	-8.64	-0.00	-2.5 to 2.5	Pass
				10	4.0	-2.99	-0.00	-2.5 to 2.5	Pass
				30	4.0	3.28	0.00	-2.5 to 2.5	Pass
2562.5	75	0	20	3.6	-2.85	-0.00	-2.5 to 2.5	Pass	
				4.0	-2.30	-0.00	-2.5 to 2.5	Pass	
				4.4	-0.41	-0.00	-2.5 to 2.5	Pass	
			-10	4.0	0.41	0.00	-2.5 to 2.5	Pass	
			0	4.0	2.80	0.00	-2.5 to 2.5	Pass	
			10	4.0	5.58	0.00	-2.5 to 2.5	Pass	
			30	4.0	-5.95	-0.00	-2.5 to 2.5	Pass	
64QAM	2507.5	75	0	20	3.6	-5.36	-0.00	-2.5 to 2.5	Pass
					4.0	-1.83	-0.00	-2.5 to 2.5	Pass

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					4.4	3.82	0.00	-2.5 to 2.5	Pass				
				-10	4.0	4.40	0.00	-2.5 to 2.5	Pass				
				0	4.0	5.38	0.00	-2.5 to 2.5	Pass				
				10	4.0	4.98	0.00	-2.5 to 2.5	Pass				
				30	4.0	5.29	0.00	-2.5 to 2.5	Pass				
				40	4.0	4.35	0.00	-2.5 to 2.5	Pass				
	2535	75	0	20		4.0	2.40	0.00	-2.5 to 2.5	Pass			
					3.6	8.48	0.00	-2.5 to 2.5	Pass				
					4.0	3.95	0.00	-2.5 to 2.5	Pass				
				4.4	-8.08	-0.00	-2.5 to 2.5	Pass					
				-10	4.0	-2.55	-0.00	-2.5 to 2.5	Pass				
				0	4.0	-2.72	-0.00	-2.5 to 2.5	Pass				
				10	4.0	-2.29	-0.00	-2.5 to 2.5	Pass				
				30	4.0	0.56	0.00	-2.5 to 2.5	Pass				
				40	4.0	6.17	0.00	-2.5 to 2.5	Pass				
				50	4.0	-1.14	-0.00	-2.5 to 2.5	Pass				
				2562.5	75	0	20		4.0	6.35	0.00	-2.5 to 2.5	Pass
								3.6	-5.82	-0.00	-2.5 to 2.5	Pass	
	4.0	-1.40	-0.00					-2.5 to 2.5	Pass				
	4.4	5.06	0.00				-2.5 to 2.5	Pass					
	-10	4.0	3.09				0.00	-2.5 to 2.5	Pass				
	0	4.0	4.38				0.00	-2.5 to 2.5	Pass				
	10	4.0	-1.20				-0.00	-2.5 to 2.5	Pass				
	30	4.0	-3.93				-0.00	-2.5 to 2.5	Pass				
40	4.0	-3.88	-0.00				-2.5 to 2.5	Pass					
50	4.0	6.35	0.00				-2.5 to 2.5	Pass					

Band: 7 / Bandwidth: 20MHz

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	2510	100	0	20		-14.99	-0.01	-2.5 to 2.5	Pass			
					3.6	-4.98	-0.00	-2.5 to 2.5	Pass			
					4.4	-4.046	-0.01	-2.5 to 2.5	Pass			
				-10	4.0	-9.53	-0.00	-2.5 to 2.5	Pass			
				0	4.0	-14.00	-0.01	-2.5 to 2.5	Pass			
				10	4.0	-4.046	-0.01	-2.5 to 2.5	Pass			
				30	4.0	-15.13	-0.01	-2.5 to 2.5	Pass			
				40	4.0	-17.85	-0.01	-2.5 to 2.5	Pass			
				50	4.0	-8.05	-0.00	-2.5 to 2.5	Pass			
				2535	100	0	20		-7.04	-0.00	-2.5 to 2.5	Pass
								3.6	6.32	0.00	-2.5 to 2.5	Pass
								4.0	3.71	0.00	-2.5 to 2.5	Pass
	4.4	3.71	0.00				-2.5 to 2.5	Pass				
	-10	4.0	1.54				0.00	-2.5 to 2.5	Pass			
	0	4.0	4.05				0.00	-2.5 to 2.5	Pass			
	10	4.0	1.22				0.00	-2.5 to 2.5	Pass			
	30	4.0	1.40				0.00	-2.5 to 2.5	Pass			
	40	4.0	-3.45				-0.00	-2.5 to 2.5	Pass			
	50	4.0	-6.90				-0.00	-2.5 to 2.5	Pass			
	2560	100	0				20		2.55	0.00	-2.5 to 2.5	Pass
								3.6	1.40	0.00	-2.5 to 2.5	Pass
				4.0	-3.25	-0.00		-2.5 to 2.5	Pass			
				4.4	-3.25	-0.00	-2.5 to 2.5	Pass				
				-10	4.0	-6.85	-0.00	-2.5 to 2.5	Pass			
0				4.0	3.71	0.00	-2.5 to 2.5	Pass				
10				4.0	0.99	0.00	-2.5 to 2.5	Pass				
30				4.0	5.85	0.00	-2.5 to 2.5	Pass				

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16QAM	2510	100	0	40	4.0	5.39	0.00	-2.5 to 2.5	Pass
				50	4.0	0.74	0.00	-2.5 to 2.5	Pass
				20	3.6	-4.0.73	-0.01	-2.5 to 2.5	Pass
					4.0	-7.31	-0.00	-2.5 to 2.5	Pass
					4.4	-3.79	-0.00	-2.5 to 2.5	Pass
				-10	4.0	-11.04	-0.00	-2.5 to 2.5	Pass
				0	4.0	-9.76	-0.00	-2.5 to 2.5	Pass
				10	4.0	-14.25	-0.01	-2.5 to 2.5	Pass
				30	4.0	-11.04	-0.00	-2.5 to 2.5	Pass
				40	4.0	-4.0.75	-0.01	-2.5 to 2.5	Pass
	50	4.0	-9.27	-0.00	-2.5 to 2.5	Pass			
	2535	100	0	20	3.6	3.33	0.00	-2.5 to 2.5	Pass
					4.0	6.95	0.00	-2.5 to 2.5	Pass
					4.4	-6.64	-0.00	-2.5 to 2.5	Pass
				-10	4.0	-6.11	-0.00	-2.5 to 2.5	Pass
				0	4.0	-7.22	-0.00	-2.5 to 2.5	Pass
				10	4.0	-2.75	-0.00	-2.5 to 2.5	Pass
				30	4.0	2.80	0.00	-2.5 to 2.5	Pass
				40	4.0	0.62	0.00	-2.5 to 2.5	Pass
				50	4.0	0.69	0.00	-2.5 to 2.5	Pass
				2560	100	0	20	3.6	-1.63
	4.0	2.09	0.00					-2.5 to 2.5	Pass
	4.4	2.45	0.00					-2.5 to 2.5	Pass
	-10	4.0	-5.4.0				-0.00	-2.5 to 2.5	Pass
	0	4.0	0.46				0.00	-2.5 to 2.5	Pass
	10	4.0	2.36				0.00	-2.5 to 2.5	Pass
	30	4.0	5.85				0.00	-2.5 to 2.5	Pass
	40	4.0	-5.14				-0.00	-2.5 to 2.5	Pass
50	4.0	-4.42	-0.00				-2.5 to 2.5	Pass	
64QAM	2510	100	0				20	3.6	-4.51
				4.0	-6.38	-0.00		-2.5 to 2.5	Pass
				4.4	-9.31	-0.00		-2.5 to 2.5	Pass
				-10	4.0	-13.02	-0.01	-2.5 to 2.5	Pass
				0	4.0	-7.48	-0.00	-2.5 to 2.5	Pass
				10	4.0	-9.36	-0.00	-2.5 to 2.5	Pass
				30	4.0	-4.31	-0.00	-2.5 to 2.5	Pass
				40	4.0	-8.34	-0.00	-2.5 to 2.5	Pass
				50	4.0	-18.41	-0.01	-2.5 to 2.5	Pass
				2535	100	0	20	3.6	-4.95
	4.0	-6.15	-0.00					-2.5 to 2.5	Pass
	4.4	-5.02	-0.00					-2.5 to 2.5	Pass
	-10	4.0	-1.99				-0.00	-2.5 to 2.5	Pass
	0	4.0	-3.28				-0.00	-2.5 to 2.5	Pass
	10	4.0	-4.09				-0.00	-2.5 to 2.5	Pass
	30	4.0	-0.62				-0.00	-2.5 to 2.5	Pass
	40	4.0	-1.59				-0.00	-2.5 to 2.5	Pass
	50	4.0	-4.88				-0.00	-2.5 to 2.5	Pass
	2560	100	0				20	3.6	1.20
				4.0	-0.46	-0.00		-2.5 to 2.5	Pass
				4.4	2.66	0.00		-2.5 to 2.5	Pass
				-10	4.0	-1.47	-0.00	-2.5 to 2.5	Pass
				0	4.0	-5.22	-0.00	-2.5 to 2.5	Pass
				10	4.0	-7.15	-0.00	-2.5 to 2.5	Pass

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				30	4.0	-6.05	-0.00	-2.5 to 2.5	Pass
				40	4.0	-7.47	-0.00	-2.5 to 2.5	Pass
				50	4.0	-7.35	-0.00	-2.5 to 2.5	Pass

1.3 LTE Band 12

1.3.1 Test Result

Band: 12 / 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	-3.350	-1.420	2.660	-0.0048	-0.0020	0.0037	-2.5 to 2.5	Pass	
				4.0	-3.820	-2.150	1.520	-0.0055	-0.0030	0.0021	-2.5 to 2.5	Pass	
				4.4	-0.170	-3.730	-1.330	-0.0002	-0.0053	-0.0019	-2.5 to 2.5	Pass	
			-10	4.0	-5.080	0.660	-0.700	-0.0073	0.0009	-0.0010	-2.5 to 2.5	Pass	
				0	4.0	-3.390	-1.750	2.060	-0.0048	-0.0025	0.0029	-2.5 to 2.5	Pass
				10	4.0	-1.220	1.340	2.590	-0.0017	0.0019	0.0036	-2.5 to 2.5	Pass
				30	4.0	-0.140	-0.090	2.4.00	-0.0002	-0.0001	0.0030	-2.5 to 2.5	Pass
				40	4.0	1.600	-1.320	1.200	0.0023	-0.0019	0.0017	-2.5 to 2.5	Pass
50	4.0	-4.560	-2.370	1.870	-0.0065	-0.0033	0.0026	-2.5 to 2.5	Pass				
16QAM	6	0	20	3.6	-0.920	-2.570	-2.260	-0.0013	-0.0036	-0.0032	-2.5 to 2.5	Pass	
				4.0	-1.330	-0.730	1.360	-0.0019	-0.0010	0.0019	-2.5 to 2.5	Pass	
				4.4	-1.4.00	1.650	-3.400	-0.0016	0.0023	-0.0048	-2.5 to 2.5	Pass	
			-10	4.0	-2.290	-4.620	-3.330	-0.0033	-0.0065	-0.0047	-2.5 to 2.5	Pass	
				0	4.0	-4.990	-1.330	-1.340	-0.0071	-0.0019	-0.0019	-2.5 to 2.5	Pass
				10	4.0	-3.710	2.400	0.670	-0.0053	0.0034	0.0009	-2.5 to 2.5	Pass
				30	4.0	-4.490	-3.160	2.290	-0.0064	-0.0045	0.0032	-2.5 to 2.5	Pass
				40	4.0	-2.530	-1.020	-3.650	-0.0036	-0.0014	-0.0051	-2.5 to 2.5	Pass
50	4.0	-2.570	3.550	-2.420	-0.0037	0.0050	-0.0034	-2.5 to 2.5	Pass				
64QAM	6	0	20	3.6	2.650	-1.260	1.090	0.0038	-0.0018	0.0015	-2.5 to 2.5	Pass	
				4.0	0.490	-1.190	-5.360	0.0007	-0.0017	-0.0075	-2.5 to 2.5	Pass	
				4.4	-1.230	-1.440	-5.060	-0.0018	-0.0020	-0.0071	-2.5 to 2.5	Pass	
			-10	4.0	-3.290	0.930	-4.880	-0.0047	0.0013	-0.0068	-2.5 to 2.5	Pass	
				0	4.0	-0.100	-0.200	-0.820	-0.0001	-0.0003	-0.0011	-2.5 to 2.5	Pass
				10	4.0	1.520	-3.580	-0.690	0.0022	-0.0051	-0.0010	-2.5 to 2.5	Pass
				30	4.0	0.270	-3.990	-4.920	0.0004	-0.0056	-0.0069	-2.5 to 2.5	Pass
				40	4.0	0.600	-0.790	-5.910	0.0009	-0.0011	-0.0083	-2.5 to 2.5	Pass
50	4.0	-0.160	-2.230	-4.030	-0.0002	-0.0032	-0.0056	-2.5 to 2.5	Pass				
Band: 12 / 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	3.350	-0.560	1.060	0.0048	-0.0008	0.0015	-2.5 to 2.5	Pass	
				4.0	0.030	-0.640	1.670	0.0000	-0.0009	0.0023	-2.5 to 2.5	Pass	
				4.4	1.820	-3.360	3.910	0.0026	-0.0047	0.0055	-2.5 to 2.5	Pass	
			-10	4.0	3.030	3.360	4.890	0.0043	0.0047	0.0068	-2.5 to 2.5	Pass	
				0	4.0	3.750	-1.990	3.750	0.0054	-0.0028	0.0052	-2.5 to 2.5	Pass
				10	4.0	3.200	1.990	4.940	0.0046	0.0028	0.0069	-2.5 to 2.5	Pass
				30	4.0	2.4.00	-3.130	2.960	0.0030	-0.0044	0.0041	-2.5 to 2.5	Pass
				40	4.0	3.780	-1.540	-0.770	0.0054	-0.0022	-0.0011	-2.5 to 2.5	Pass
50	4.0	2.070	-1.400	-0.900	0.0030	-0.0020	-0.0013	-2.5 to 2.5	Pass				
16QAM	15	0	20	3.6	2.000	2.720	-3.600	0.0029	0.0038	-0.0050	-2.5 to 2.5	Pass	

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**BUREAU VERITAS Test Report No.: W7L-P20210616-3RF03**

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
Band: 12 / Bandwidth: 5MHz / NTV													
64QAM	15	0	20	4.0	2.630	0.840	-2.590	0.0038	0.004.0	-0.0036	-2.5 to 2.5	Pass	
				4.4	2.890	-1.760	-1.100	0.0041	-0.0025	-0.0015	-2.5 to 2.5	Pass	
				-10	4.0	3.130	-1.670	0.830	0.0045	-0.0024	0.004.0	-2.5 to 2.5	Pass
				0	4.0	3.830	0.270	-0.500	0.0055	0.0004	-0.0007	-2.5 to 2.5	Pass
				10	4.0	2.790	-2.550	-2.920	0.0040	-0.0036	-0.0041	-2.5 to 2.5	Pass
				30	4.0	3.790	-1.950	-2.070	0.0054	-0.0028	-0.0029	-2.5 to 2.5	Pass
				40	4.0	3.490	-0.110	-1.330	0.0050	-0.0002	-0.0019	-2.5 to 2.5	Pass
				50	4.0	4.180	2.060	1.220	0.0060	0.0029	0.0017	-2.5 to 2.5	Pass
64QAM	15	0	20	3.6	0.970	0.160	2.790	0.0014	0.0002	0.0039	-2.5 to 2.5	Pass	
				4.0	-0.960	-0.200	2.420	-0.0014	-0.0003	0.0034	-2.5 to 2.5	Pass	
				4.4	-0.840	-3.160	2.500	-0.004.0	-0.0045	0.0035	-2.5 to 2.5	Pass	
				-10	4.0	-1.990	-4.550	0.360	-0.0028	-0.0064	0.0005	-2.5 to 2.5	Pass
				0	4.0	-1.630	-4.750	-0.430	-0.0023	-0.0067	-0.0006	-2.5 to 2.5	Pass
				10	4.0	-1.420	-1.620	-3.720	-0.0020	-0.0023	-0.0052	-2.5 to 2.5	Pass
				30	4.0	-3.050	0.160	-3.830	-0.0044	0.0002	-0.0054	-2.5 to 2.5	Pass
				40	4.0	-2.360	-0.900	-4.790	-0.0034	-0.0013	-0.0067	-2.5 to 2.5	Pass
50	4.0	2.020	-1.020	0.500	0.0029	-0.0014	0.0007	-2.5 to 2.5	Pass				
Band: 12 / Bandwidth: 5MHz / NTV													
QPSK	25	0	20	3.6	-3.520	-0.830	-1.950	-0.0050	-0.004.0	-0.0027	-2.5 to 2.5	Pass	
				4.0	-4.460	-2.830	-2.020	-0.0064	-0.0040	-0.0028	-2.5 to 2.5	Pass	
				4.4	0.090	-3.450	-2.320	0.0001	-0.0049	-0.0033	-2.5 to 2.5	Pass	
				-10	4.0	-3.500	1.990	2.760	-0.0050	0.0028	0.0039	-2.5 to 2.5	Pass
				0	4.0	-4.890	-3.160	-0.160	-0.0070	-0.0045	-0.0002	-2.5 to 2.5	Pass
				10	4.0	-5.080	2.100	-4.390	-0.0072	0.0030	-0.0062	-2.5 to 2.5	Pass
				30	4.0	2.500	1.300	-0.430	0.0036	0.0018	-0.0006	-2.5 to 2.5	Pass
				40	4.0	1.370	-3.850	2.530	0.0020	-0.0054	0.0035	-2.5 to 2.5	Pass
50	4.0	-1.270	-2.560	2.690	-0.0018	-0.0036	0.0038	-2.5 to 2.5	Pass				
16QAM	25	0	20	3.6	-2.830	-4.760	1.320	-0.0040	-0.0067	0.0019	-2.5 to 2.5	Pass	
				4.0	-2.750	-3.350	-5.260	-0.0039	-0.0047	-0.0074	-2.5 to 2.5	Pass	
				4.4	-3.220	-2.220	-3.390	-0.0046	-0.0031	-0.0048	-2.5 to 2.5	Pass	
				-10	4.0	-2.460	-3.490	-3.680	-0.0035	-0.0049	-0.0052	-2.5 to 2.5	Pass
				0	4.0	-2.790	-3.690	0.990	-0.0040	-0.0052	0.0014	-2.5 to 2.5	Pass
				10	4.0	-3.590	-2.760	2.250	-0.0051	-0.0039	0.0032	-2.5 to 2.5	Pass
				30	4.0	-2.730	-2.550	-4.450	-0.0039	-0.0036	-0.0062	-2.5 to 2.5	Pass
				40	4.0	2.360	-3.780	-3.360	0.0034	-0.0053	-0.0047	-2.5 to 2.5	Pass
50	4.0	2.690	-3.760	-0.040	0.0038	-0.0053	-0.0001	-2.5 to 2.5	Pass				
64QAM	25	0	20	3.6	1.760	-3.180	-1.470	0.0025	-0.0045	-0.0021	-2.5 to 2.5	Pass	
				4.0	1.140	1.060	0.160	0.0016	0.0015	0.0002	-2.5 to 2.5	Pass	
				4.4	-1.890	4.410	-3.400	-0.0027	0.0062	-0.0048	-2.5 to 2.5	Pass	
				-10	4.0	-0.940	3.530	-2.360	-0.0013	0.0050	-0.0033	-2.5 to 2.5	Pass
				0	4.0	-3.820	0.740	-3.390	-0.0054	0.0010	-0.0048	-2.5 to 2.5	Pass
				10	4.0	1.170	-0.760	-3.330	0.0017	-0.0011	-0.0047	-2.5 to 2.5	Pass
				30	4.0	-1.790	-2.350	0.140	-0.0026	-0.0033	0.0002	-2.5 to 2.5	Pass
				40	4.0	-0.470	-4.160	-0.090	-0.0007	-0.0059	-0.0001	-2.5 to 2.5	Pass
50	4.0	1.140	4.050	1.520	0.0016	0.0057	0.0021	-2.5 to 2.5	Pass				
Band: 12 / Bandwidth: 10MHz / NTV													
QPSK	50	0	20	3.6	3.860	-1.170	-2.250	0.0055	-0.0017	-0.0032	-2.5 to 2.5	Pass	
				4.0	3.950	-3.580	-2.850	0.0056	-0.0051	-0.0040	-2.5 to 2.5	Pass	
				4.4	2.760	-0.660	-4.650	0.0039	-0.0009	-0.0065	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation Size	Offset	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)			Verdict		
					LCH	MCH	HCH	LCH	MCH	HCH		Limit	
16QAM	50	0	20	3.6	-0.870	-0.140	-0.560	-0.0011	-0.0002	-0.0007	-2.5 to 2.5	Pass	
				4.0	-0.970	1.670	-1.660	-0.0040	0.0021	-0.0021	-2.5 to 2.5	Pass	
				4.4	0.060	-1.890	-1.770	0.0001	-0.0024	-0.0023	-2.5 to 2.5	Pass	
				-10	4.0	2.190	0.070	-3.820	0.0028	0.0001	-0.0049	-2.5 to 2.5	Pass
				0	4.0	-4.460	0.070	-2.000	-0.0057	0.0001	-0.0025	-2.5 to 2.5	Pass
				10	4.0	-2.530	-0.890	0.540	-0.0032	-0.0011	0.0007	-2.5 to 2.5	Pass
				30	4.0	3.520	1.060	-3.190	0.0045	0.0014	-0.0041	-2.5 to 2.5	Pass
				40	4.0	-1.830	1.100	-4.940	-0.0023	0.0014	-0.0063	-2.5 to 2.5	Pass
				50	4.0	1.850	-1.340	3.090	0.0024	-0.0017	0.0039	-2.5 to 2.5	Pass
				64QAM	50	0	20	3.6	0.290	1.170	-0.340	0.0004	0.0015
4.0	-1.670	2.750	-3.350					-0.0021	0.0035	-0.0043	-2.5 to 2.5	Pass	
4.4	3.380	-1.500	-2.550					0.0043	-0.0019	-0.0033	-2.5 to 2.5	Pass	
-10	4.0	-4.510	-4.520					-5.840	-0.0058	-0.0058	-0.0074	-2.5 to 2.5	Pass
0	4.0	-1.570	-2.390					-5.880	-0.0020	-0.0031	-0.0075	-2.5 to 2.5	Pass
10	4.0	0.600	-4.480					-3.830	0.0008	-0.0057	-0.0049	-2.5 to 2.5	Pass
30	4.0	-5.160	3.150					-4.490	-0.0066	0.0040	-0.0057	-2.5 to 2.5	Pass
40	4.0	-3.220	2.560					1.440	-0.0041	0.0033	0.0018	-2.5 to 2.5	Pass
50	4.0	-4.690	3.090					0.800	-0.0060	0.0040	0.0010	-2.5 to 2.5	Pass
64QAM	25	0	20					3.6	-0.800	0.440	4.150	-0.0010	0.0006

1.4 LTE Band 13

1.4.1 Test Result

Band: 13 / 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	-0.870	-0.140	-0.560	-0.0011	-0.0002	-0.0007	-2.5 to 2.5	Pass	
				4.0	-0.970	1.670	-1.660	-0.0040	0.0021	-0.0021	-2.5 to 2.5	Pass	
				4.4	0.060	-1.890	-1.770	0.0001	-0.0024	-0.0023	-2.5 to 2.5	Pass	
				-10	4.0	2.190	0.070	-3.820	0.0028	0.0001	-0.0049	-2.5 to 2.5	Pass
				0	4.0	-4.460	0.070	-2.000	-0.0057	0.0001	-0.0025	-2.5 to 2.5	Pass
				10	4.0	-2.530	-0.890	0.540	-0.0032	-0.0011	0.0007	-2.5 to 2.5	Pass
				30	4.0	3.520	1.060	-3.190	0.0045	0.0014	-0.0041	-2.5 to 2.5	Pass
				40	4.0	-1.830	1.100	-4.940	-0.0023	0.0014	-0.0063	-2.5 to 2.5	Pass
16QAM	25	0	20	3.6	0.290	1.170	-0.340	0.0004	0.0015	-0.0004	-2.5 to 2.5	Pass	
				4.0	-1.670	2.750	-3.350	-0.0021	0.0035	-0.0043	-2.5 to 2.5	Pass	
				4.4	3.380	-1.500	-2.550	0.0043	-0.0019	-0.0033	-2.5 to 2.5	Pass	
				-10	4.0	-4.510	-4.520	-5.840	-0.0058	-0.0058	-0.0074	-2.5 to 2.5	Pass
				0	4.0	-1.570	-2.390	-5.880	-0.0020	-0.0031	-0.0075	-2.5 to 2.5	Pass
				10	4.0	0.600	-4.480	-3.830	0.0008	-0.0057	-0.0049	-2.5 to 2.5	Pass
				30	4.0	-5.160	3.150	-4.490	-0.0066	0.0040	-0.0057	-2.5 to 2.5	Pass
				40	4.0	-3.220	2.560	1.440	-0.0041	0.0033	0.0018	-2.5 to 2.5	Pass
64QAM	25	0	20	3.6	-0.800	0.440	4.150	-0.0010	0.0006	0.0053	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Band: 13 / Bandwidth: 10MHz / NTV												
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	4.0	-2.450	-2.100	2.360	-0.0031	-0.0027	0.0030	-2.5 to 2.5	Pass
				4.4	-3.360	2.630	1.850	-0.0043	0.0034	0.0024	-2.5 to 2.5	Pass
				-10	4.0	1.670	-2.070	-4.050	0.0021	-0.0026	-0.0052	-2.5 to 2.5
			0	4.0	-4.360	-0.140	-0.130	-0.0056	-0.0002	-0.0002	-2.5 to 2.5	Pass
			10	4.0	0.770	-0.530	-3.560	0.0010	-0.0007	-0.0045	-2.5 to 2.5	Pass
			30	4.0	-5.150	1.620	2.860	-0.0066	0.0021	0.0036	-2.5 to 2.5	Pass
			40	4.0	-0.660	2.150	2.920	-0.0008	0.0027	0.0037	-2.5 to 2.5	Pass
16QAM	50	0	20	3.6	/	2.220	/	/	0.0028	/	-2.5 to 2.5	Pass
				4.0	/	1.160	/	/	0.0015	/	-2.5 to 2.5	Pass
				4.4	/	-0.400	/	/	-0.0005	/	-2.5 to 2.5	Pass
			-10	4.0	/	-0.510	/	/	-0.0007	/	-2.5 to 2.5	Pass
			0	4.0	/	-2.500	/	/	-0.0032	/	-2.5 to 2.5	Pass
			10	4.0	/	-4.520	/	/	-0.0058	/	-2.5 to 2.5	Pass
			30	4.0	/	-0.640	/	/	-0.0008	/	-2.5 to 2.5	Pass
			40	4.0	/	0.820	/	/	0.0010	/	-2.5 to 2.5	Pass
64QAM	50	0	20	3.6	/	1.230	/	/	0.0016	/	-2.5 to 2.5	Pass
				4.0	/	-2.630	/	/	-0.0034	/	-2.5 to 2.5	Pass
				4.4	/	-0.570	/	/	-0.0007	/	-2.5 to 2.5	Pass
			-10	4.0	/	-0.570	/	/	-0.0007	/	-2.5 to 2.5	Pass
			0	4.0	/	-3.500	/	/	-0.0045	/	-2.5 to 2.5	Pass
			10	4.0	/	-1.540	/	/	-0.0020	/	-2.5 to 2.5	Pass
			30	4.0	/	0.460	/	/	0.0006	/	-2.5 to 2.5	Pass
			40	4.0	/	2.600	/	/	0.0033	/	-2.5 to 2.5	Pass
50	4.0	/	-2.350	/	/	-0.0030	/	-2.5 to 2.5	Pass			

1.5 LTE Band 17

1.5.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV												
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	1.870	-4.450	-2.470	0.0026	-0.0063	-0.0035	-2.5 to 2.5	Pass
				4.0	-0.940	-0.490	-2.390	-0.0013	-0.0007	-0.0033	-2.5 to 2.5	Pass
				4.4	-0.090	2.650	-2.230	-0.0001	0.0037	-0.0031	-2.5 to 2.5	Pass
			-10	4.0	0.600	3.580	-3.680	0.0008	0.0050	-0.0052	-2.5 to 2.5	Pass
			0	4.0	-3.580	-2.330	2.450	-0.0051	-0.0033	0.0034	-2.5 to 2.5	Pass
			10	4.0	-5.220	-1.790	-0.300	-0.0074	-0.0025	-0.0004	-2.5 to 2.5	Pass

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

16QAM	25	0	30	4.0	1.900	-1.360	-3.720	0.0027	-0.0019	-0.0052	-2.5 to 2.5	Pass
			40	4.0	-0.690	-0.510	-3.160	-0.0010	-0.0007	-0.0044	-2.5 to 2.5	Pass
			50	4.0	-2.680	0.300	-3.560	-0.0038	0.0004	-0.0050	-2.5 to 2.5	Pass
			20	3.6	-4.290	-1.190	2.590	-0.0061	-0.0017	0.0036	-2.5 to 2.5	Pass
				4.0	-1.650	1.270	-3.550	-0.0023	0.0018	-0.0050	-2.5 to 2.5	Pass
				4.4	0.570	0.970	0.840	0.0008	0.0014	0.004.0	-2.5 to 2.5	Pass
			-10	4.0	-4.250	-4.460	2.250	-0.0060	-0.0063	0.0032	-2.5 to 2.5	Pass
			0	4.0	-3.380	-1.790	2.650	-0.0048	-0.0025	0.0037	-2.5 to 2.5	Pass
			10	4.0	1.240	-1.330	-4.280	0.0018	-0.0019	-0.0060	-2.5 to 2.5	Pass
30	4.0	-3.150	-5.880	1.870	-0.0045	-0.0083	0.0026	-2.5 to 2.5	Pass			
40	4.0	-3.030	-5.480	1.530	-0.0043	-0.0077	0.0021	-2.5 to 2.5	Pass			
50	4.0	-4.860	-5.720	1.020	-0.0069	-0.0081	0.0014	-2.5 to 2.5	Pass			
64QAM	25	0	20	3.6	1.530	4.260	-2.320	0.0022	0.0060	-0.0033	-2.5 to 2.5	Pass
				4.0	0.390	0.410	2.680	0.0006	0.0006	0.0038	-2.5 to 2.5	Pass
				4.4	-0.030	-1.430	2.360	0.0000	-0.0020	0.0033	-2.5 to 2.5	Pass
			-10	4.0	2.630	0.510	-0.270	0.0037	0.0007	-0.0004	-2.5 to 2.5	Pass
			0	4.0	-4.030	3.450	-0.130	-0.0057	0.0049	-0.0002	-2.5 to 2.5	Pass
			10	4.0	-2.370	0.110	-2.900	-0.0034	0.0002	-0.0041	-2.5 to 2.5	Pass
			30	4.0	1.570	-1.400	-1.800	0.0022	-0.0025	-2.5 to 2.5	Pass	
			40	4.0	1.290	-1.230	1.340	0.0018	-0.0017	0.0019	-2.5 to 2.5	Pass

Band: 17 / Bandwidth: 10MHz / NTV												
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	-5.540	-5.210	-0.620	-0.0078	-0.0073	-0.0009	-2.5 to 2.5	Pass
				4.0	-2.270	-5.060	-2.460	-0.0032	-0.0071	-0.0035	-2.5 to 2.5	Pass
				4.4	-2.190	-4.960	-2.760	-0.0031	-0.0070	-0.0039	-2.5 to 2.5	Pass
			-10	4.0	-3.4.00	-0.210	2.680	-0.0044	-0.0003	0.0038	-2.5 to 2.5	Pass
			0	4.0	-6.780	0.470	3.290	-0.0096	0.0007	0.0046	-2.5 to 2.5	Pass
			10	4.0	-2.420	-5.160	0.410	-0.0034	-0.0073	0.0006	-2.5 to 2.5	Pass
			30	4.0	-2.660	1.560	1.630	-0.0038	0.0022	0.0023	-2.5 to 2.5	Pass
			40	4.0	-4.620	0.900	1.490	-0.0065	0.0013	0.0021	-2.5 to 2.5	Pass
			50	4.0	-6.250	-1.520	-0.840	-0.0088	-0.0021	-0.004.0	-2.5 to 2.5	Pass
16QAM	50	0	20	3.6	-3.890	-5.950	-0.500	-0.0055	-0.0084	-0.0007	-2.5 to 2.5	Pass
				4.0	-1.340	-4.710	-2.200	-0.0019	-0.0066	-0.0031	-2.5 to 2.5	Pass
				4.4	-0.900	-5.150	0.690	-0.0013	-0.0073	0.0010	-2.5 to 2.5	Pass
			-10	4.0	-1.020	-5.550	-4.350	-0.0014	-0.0078	-0.0061	-2.5 to 2.5	Pass
			0	4.0	-7.800	-5.760	-4.520	-0.0110	-0.0081	-0.0064	-2.5 to 2.5	Pass
			10	4.0	-8.550	-2.500	-3.950	-0.04.01	-0.0035	-0.0056	-2.5 to 2.5	Pass
			30	4.0	-3.920	1.340	-4.750	-0.0055	0.0019	-0.0067	-2.5 to 2.5	Pass
			40	4.0	-2.260	1.040	-2.160	-0.0032	0.0015	-0.0030	-2.5 to 2.5	Pass
			50	4.0	-5.010	-1.490	-0.740	-0.0071	-0.0021	-0.0010	-2.5 to 2.5	Pass
64QAM	50	0	20	3.6	-2.800	-0.690	-1.970	-0.0039	-0.0010	-0.0028	-2.5 to 2.5	Pass
				4.0	-5.290	0.730	-3.030	-0.0075	0.0010	-0.0043	-2.5 to 2.5	Pass
				4.4	0.070	-0.410	-2.020	0.0001	-0.0006	-0.0028	-2.5 to 2.5	Pass
			-10	4.0	-1.390	0.600	-1.060	-0.0020	0.0008	-0.0015	-2.5 to 2.5	Pass
			0	4.0	-3.330	-2.680	-1.400	-0.0047	-0.0038	-0.0020	-2.5 to 2.5	Pass
			10	4.0	-1.920	-4.530	2.650	-0.0027	-0.0064	0.0037	-2.5 to 2.5	Pass
			30	4.0	-0.010	-5.010	3.390	0.0000	-0.0071	0.0048	-2.5 to 2.5	Pass
			40	4.0	-0.660	-4.290	-5.040	-0.0009	-0.0060	-0.0071	-2.5 to 2.5	Pass
			50	4.0	-2.460	-4.330	-3.450	-0.0035	-0.0061	-0.0049	-2.5 to 2.5	Pass

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1.6 LTE Band 66

1.6.1 Test Result

Band: 66 / Bandwidth: 1.4MHz / NTN													
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	-18.470	-15.960	5.610	-0.0108	-0.0091	0.0032	-2.5 to 2.5	Pass	
				4.0	-15.510	-19.070	17.780	-0.0091	-0.0109	0.0100	-2.5 to 2.5	Pass	
				4.4	-13.480	-22.890	14.480	-0.0079	-0.0131	0.0081	-2.5 to 2.5	Pass	
			-10	4.0	-16.310	-10.390	7.900	-0.0095	-0.0060	0.0044	-2.5 to 2.5	Pass	
				0	4.0	-17.440	-7.050	16.650	-0.0102	-0.0040	0.0094	-2.5 to 2.5	Pass
				10	4.0	-20.310	-8.180	15.250	-0.0119	-0.0047	0.0086	-2.5 to 2.5	Pass
				30	4.0	-22.520	-9.410	11.620	-0.0132	-0.0054	0.0065	-2.5 to 2.5	Pass
				40	4.0	-25.960	-8.550	7.750	-0.0152	-0.0049	0.0044	-2.5 to 2.5	Pass
50	4.0	-15.860	-7.940	8.170	-0.0093	-0.0046	0.0046	-2.5 to 2.5	Pass				
16QAM	6	0	20	3.6	0.360	4.630	2.720	0.0002	0.0027	0.0015	-2.5 to 2.5	Pass	
				4.0	3.150	5.390	3.590	0.0018	0.0031	0.0020	-2.5 to 2.5	Pass	
				4.4	5.510	3.320	4.080	0.0032	0.0019	0.0023	-2.5 to 2.5	Pass	
			-10	4.0	-9.030	1.590	3.300	-0.0053	0.0009	0.0019	-2.5 to 2.5	Pass	
				0	4.0	-5.390	0.840	1.900	-0.0032	0.0005	0.0011	-2.5 to 2.5	Pass
				10	4.0	-4.060	2.320	2.850	-0.0024	0.0013	0.0016	-2.5 to 2.5	Pass
				30	4.0	-0.960	4.980	1.920	-0.0006	0.0029	0.0011	-2.5 to 2.5	Pass
				40	4.0	-1.750	6.290	4.020	-0.0010	0.0036	0.0023	-2.5 to 2.5	Pass
50	4.0	-5.820	-9.480	4.420	-0.0034	-0.0054	0.0025	-2.5 to 2.5	Pass				
64QAM	6	0	20	3.6	17.700	-15.750	9.800	0.0103	-0.0090	0.0055	-2.5 to 2.5	Pass	
				4.0	11.540	-22.700	7.710	0.0067	-0.0130	0.0043	-2.5 to 2.5	Pass	
				4.4	8.040	-23.000	6.710	0.0047	-0.0132	0.0038	-2.5 to 2.5	Pass	
			-10	4.0	14.150	-16.440	5.820	0.0083	-0.0094	0.0033	-2.5 to 2.5	Pass	
				0	4.0	10.990	-23.150	5.380	0.0064	-0.0133	0.0030	-2.5 to 2.5	Pass
				10	4.0	2.250	-15.540	6.010	0.0013	-0.0089	0.0034	-2.5 to 2.5	Pass
				30	4.0	14.960	-20.080	4.880	0.0087	-0.0115	0.0027	-2.5 to 2.5	Pass
				40	4.0	7.740	-26.480	-1.320	0.0045	-0.0152	-0.0007	-2.5 to 2.5	Pass
50	4.0	9.170	-11.860	-4.030	0.0054	-0.0068	-0.0023	-2.5 to 2.5	Pass				
Band: 66 / Bandwidth: 3MHz / NTN													
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	-8.310	-0.390	4.660	-0.0049	-0.0002	0.0026	-2.5 to 2.5	Pass	
				4.0	-8.570	8.410	1.030	-0.0050	0.0048	0.0006	-2.5 to 2.5	Pass	
				4.4	-8.130	8.330	0.800	-0.0048	0.0048	0.0004	-2.5 to 2.5	Pass	
			-10	4.0	-8.440	5.850	0.730	-0.0049	0.0034	0.0004	-2.5 to 2.5	Pass	
				0	4.0	-8.630	-1.920	2.130	-0.0050	-0.0011	0.0040	-2.5 to 2.5	Pass
				10	4.0	-10.300	-5.760	2.930	-0.0060	-0.0033	0.0016	-2.5 to 2.5	Pass
				30	4.0	-8.410	-2.560	1.950	-0.0049	-0.0015	0.0011	-2.5 to 2.5	Pass
				40	4.0	-4.880	-1.720	-0.470	-0.0029	-0.0010	-0.0003	-2.5 to 2.5	Pass
50	4.0	-2.060	-2.160	-2.450	-0.0040	-0.0040	-0.0014	-2.5 to 2.5	Pass				
16QAM	15	0	20	3.6	-8.480	1.960	-6.410	-0.0050	0.0011	-0.0036	-2.5 to 2.5	Pass	
				4.0	-4.610	4.160	-8.250	-0.0027	0.0024	-0.0046	-2.5 to 2.5	Pass	
				4.4	-3.020	2.030	-5.880	-0.0018	0.0040	-0.0033	-2.5 to 2.5	Pass	
			-10	4.0	-9.180	-7.770	-5.080	-0.0054	-0.0045	-0.0029	-2.5 to 2.5	Pass	
				0	4.0	-11.940	-3.730	-4.480	-0.0070	-0.0021	-0.0025	-2.5 to 2.5	Pass
10	4.0	-7.240	-0.330	-6.480	-0.0042	-0.0002	-0.0036	-2.5 to 2.5	Pass				

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64QAM	15	0	30	4.0	-2.760	1.160	-8.030	-0.0016	0.0007	-0.0045	-2.5 to 2.5	Pass
			40	4.0	-1.950	2.030	-7.040	-0.0011	0.004.0	-0.0040	-2.5 to 2.5	Pass
			50	4.0	-1.540	3.620	-4.210	-0.0009	0.0021	-0.0024	-2.5 to 2.5	Pass
			20	3.6	-8.640	1.320	6.090	-0.0050	0.0008	0.0034	-2.5 to 2.5	Pass
				4.0	-10.370	2.130	4.720	-0.0061	0.004.0	0.0027	-2.5 to 2.5	Pass
				4.4	-4.0.830	3.890	3.990	-0.0075	0.0022	0.0022	-2.5 to 2.5	Pass
			-10	4.0	-13.100	3.330	1.160	-0.0077	0.0019	0.0007	-2.5 to 2.5	Pass
			0	4.0	-14.030	2.020	-2.030	-0.0082	0.004.0	-0.0011	-2.5 to 2.5	Pass
			10	4.0	-14.760	0.360	-2.800	-0.0086	0.0002	-0.0016	-2.5 to 2.5	Pass
30	4.0	-10.040	-2.850	-4.750	-0.0059	-0.0016	-0.0027	-2.5 to 2.5	Pass			
40	4.0	-6.110	-3.680	7.820	-0.0036	-0.0021	0.0044	-2.5 to 2.5	Pass			
50	4.0	-0.090	-6.750	8.500	-0.0001	-0.0039	0.0048	-2.5 to 2.5	Pass			

Band: 66 / 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	-2.490	-6.210	0.500	-0.0015	-0.0036	0.0003	-2.5 to 2.5	Pass
				4.0	-2.930	-7.320	3.4.00	-0.0017	-0.0042	0.0018	-2.5 to 2.5	Pass
				4.4	-4.820	-0.530	3.220	-0.0028	-0.0003	0.0018	-2.5 to 2.5	Pass
			-10	4.0	-7.940	-2.250	-0.170	-0.0046	-0.0013	-0.0001	-2.5 to 2.5	Pass
			0	4.0	-7.140	-7.4.00	-6.350	-0.0042	-0.0041	-0.0036	-2.5 to 2.5	Pass
			10	4.0	-9.000	-3.260	5.480	-0.0053	-0.0019	0.0031	-2.5 to 2.5	Pass
			30	4.0	-6.390	3.720	1.760	-0.0037	0.0021	0.0010	-2.5 to 2.5	Pass
			40	4.0	-5.790	-7.020	-2.290	-0.0034	-0.0040	-0.0013	-2.5 to 2.5	Pass
50	4.0	-9.100	-6.650	0.130	-0.0053	-0.0038	0.0001	-2.5 to 2.5	Pass			
16QAM	25	0	20	3.6	-1.490	7.220	2.220	-0.0009	0.0041	0.004.0	-2.5 to 2.5	Pass
				4.0	-3.320	7.180	-1.850	-0.0019	0.0041	-0.0010	-2.5 to 2.5	Pass
				4.4	-16.640	-6.140	-5.660	-0.0097	-0.0035	-0.0032	-2.5 to 2.5	Pass
			-10	4.0	-13.230	-2.390	-7.040	-0.0077	-0.0014	-0.0040	-2.5 to 2.5	Pass
			0	4.0	-13.420	2.130	-4.910	-0.0078	0.004.0	-0.0028	-2.5 to 2.5	Pass
			10	4.0	-13.660	4.920	-3.380	-0.0080	0.0028	-0.0019	-2.5 to 2.5	Pass
			30	4.0	-14.590	5.260	-3.550	-0.0085	0.0030	-0.0020	-2.5 to 2.5	Pass
			40	4.0	-14.710	4.4.00	-5.280	-0.0086	0.0024	-0.0030	-2.5 to 2.5	Pass
50	4.0	-13.730	5.280	-4.430	-0.0080	0.0030	-0.0025	-2.5 to 2.5	Pass			
64QAM	25	0	20	3.6	-4.0.130	-4.680	2.020	-0.0071	-0.0027	0.0011	-2.5 to 2.5	Pass
				4.0	-14.330	-4.580	4.290	-0.0084	-0.0026	0.0024	-2.5 to 2.5	Pass
				4.4	-15.980	-4.910	2.570	-0.0093	-0.0028	0.0014	-2.5 to 2.5	Pass
			-10	4.0	-17.900	-5.390	1.430	-0.0105	-0.0031	0.0008	-2.5 to 2.5	Pass
			0	4.0	-3.850	-4.590	-0.310	-0.0022	-0.0026	-0.0002	-2.5 to 2.5	Pass
			10	4.0	-0.740	-4.610	-1.950	-0.0004	-0.0026	-0.0011	-2.5 to 2.5	Pass
			30	4.0	-1.750	-6.840	-2.530	-0.0010	-0.0039	-0.0014	-2.5 to 2.5	Pass
			40	4.0	-2.880	2.170	-2.160	-0.0017	0.004.0	-0.004.0	-2.5 to 2.5	Pass
50	4.0	-4.180	6.870	-0.700	-0.0024	0.0039	-0.0004	-2.5 to 2.5	Pass			

Band: 66 / 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	-9.070	-3.130	6.550	-0.0053	-0.0018	0.0037	-2.5 to 2.5	Pass
				4.0	4.690	-4.840	1.930	0.0027	-0.0028	0.0011	-2.5 to 2.5	Pass
				4.4	3.790	-4.860	1.060	0.0022	-0.0028	0.0006	-2.5 to 2.5	Pass
			-10	4.0	1.820	-4.320	0.060	0.0011	-0.0025	0.0000	-2.5 to 2.5	Pass
			0	4.0	-0.430	-4.420	1.140	-0.0003	-0.0025	0.0006	-2.5 to 2.5	Pass
			10	4.0	-3.860	-3.280	1.560	-0.0023	-0.0019	0.0009	-2.5 to 2.5	Pass
			30	4.0	-4.920	-2.730	-0.670	-0.0029	-0.0016	-0.0004	-2.5 to 2.5	Pass
40	4.0	-4.720	-1.770	-5.460	-0.0028	-0.0010	-0.0031	-2.5 to 2.5	Pass			

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict	
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH	Limit		
16QAM	50	0	50	4.0	-6.010	-1.220	-6.340	-0.0035	-0.0007	-0.0036	-2.5 to 2.5	Pass	
				3.6	3.500	1.170	-1.370	0.0020	0.0007	-0.0008	-2.5 to 2.5	Pass	
				20	4.0	3.910	4.950	-1.540	0.0023	0.0028	-0.0009	-2.5 to 2.5	Pass
				4.4	4.730	4.150	-1.240	0.0028	0.0024	-0.0007	-2.5 to 2.5	Pass	
				-10	4.0	4.350	4.250	-0.240	0.0025	0.0024	-0.0001	-2.5 to 2.5	Pass
				0	4.0	6.050	6.110	2.520	0.0035	0.0035	0.0014	-2.5 to 2.5	Pass
				10	4.0	4.220	6.110	3.950	0.0025	0.0035	0.0022	-2.5 to 2.5	Pass
				30	4.0	3.420	5.580	5.610	0.0020	0.0032	0.0032	-2.5 to 2.5	Pass
40	4.0	6.070	5.780	6.610	0.0035	0.0033	0.0037	-2.5 to 2.5	Pass				
50	4.0	5.640	-0.200	7.850	0.0033	-0.0001	0.0044	-2.5 to 2.5	Pass				
64QAM	50	0	20	3.6	3.390	2.460	-6.110	0.0020	0.0014	-0.0034	-2.5 to 2.5	Pass	
				4.0	2.690	2.800	-7.970	0.0016	0.0016	-0.0045	-2.5 to 2.5	Pass	
				4.4	0.630	5.410	-8.180	0.0004	0.0031	-0.0046	-2.5 to 2.5	Pass	
				-10	4.0	-1.240	-4.060	-9.610	-0.0007	-0.0023	-0.0054	-2.5 to 2.5	Pass
				0	4.0	-1.500	0.800	-10.130	-0.0009	0.0005	-0.0057	-2.5 to 2.5	Pass
				10	4.0	-1.530	2.270	4.280	-0.0009	0.0013	0.0024	-2.5 to 2.5	Pass
				30	4.0	-0.130	4.290	5.710	-0.0001	0.0025	0.0032	-2.5 to 2.5	Pass
				40	4.0	3.180	5.850	5.650	0.0019	0.0034	0.0032	-2.5 to 2.5	Pass
50	4.0	3.020	6.880	1.270	0.0018	0.0039	0.0007	-2.5 to 2.5	Pass				
Band: 66 / Bandwidth: 15MHz / NTNV													
QPSK	75	0	20	3.6	3.380	3.490	0.820	0.0020	0.0020	0.0005	-2.5 to 2.5	Pass	
				4.0	2.530	0.690	-0.270	0.0015	0.0004	-0.0002	-2.5 to 2.5	Pass	
				4.4	1.820	-1.820	-2.430	0.0011	-0.0010	-0.0014	-2.5 to 2.5	Pass	
				-10	4.0	0.570	-6.820	-5.920	0.0003	-0.0039	-0.0033	-2.5 to 2.5	Pass
				0	4.0	-2.750	1.870	-3.560	-0.0016	0.0011	-0.0020	-2.5 to 2.5	Pass
				10	4.0	-2.730	3.050	4.520	-0.0016	0.0017	0.0026	-2.5 to 2.5	Pass
				30	4.0	-5.010	-1.490	-0.790	-0.0029	-0.0009	-0.0004	-2.5 to 2.5	Pass
				40	4.0	-3.500	-7.150	-6.340	-0.0020	-0.0041	-0.0036	-2.5 to 2.5	Pass
50	4.0	0.290	-9.560	5.520	0.0002	-0.0055	0.0031	-2.5 to 2.5	Pass				
16QAM	75	0	20	3.6	-7.580	-0.160	7.100	-0.0044	-0.0001	0.0040	-2.5 to 2.5	Pass	
				4.0	-7.580	-2.430	5.520	-0.0044	-0.0014	0.0031	-2.5 to 2.5	Pass	
				4.4	-5.950	-6.920	3.990	-0.0035	-0.0040	0.0023	-2.5 to 2.5	Pass	
				-10	4.0	-5.740	-8.110	-6.450	-0.0033	-0.0046	-0.0036	-2.5 to 2.5	Pass
				0	4.0	-6.590	-7.800	-7.050	-0.0038	-0.0045	-0.0040	-2.5 to 2.5	Pass
				10	4.0	-1.790	-6.680	0.700	-0.0010	-0.0038	0.0004	-2.5 to 2.5	Pass
				30	4.0	2.230	-7.520	4.720	0.0013	-0.0043	0.0027	-2.5 to 2.5	Pass
				40	4.0	-0.190	-7.880	6.400	-0.0001	-0.0045	0.0035	-2.5 to 2.5	Pass
50	4.0	-6.750	-8.810	7.240	-0.0039	-0.0050	0.0041	-2.5 to 2.5	Pass				
64QAM	75	0	20	3.6	-6.050	6.250	-1.200	-0.0035	0.0036	-0.0007	-2.5 to 2.5	Pass	
				4.0	-5.870	6.390	-2.260	-0.0034	0.0037	-0.0013	-2.5 to 2.5	Pass	
				4.4	-5.440	2.320	-8.900	-0.0032	0.0013	-0.0050	-2.5 to 2.5	Pass	
				-10	4.0	-4.160	0.110	3.880	-0.0024	0.0001	0.0022	-2.5 to 2.5	Pass
				0	4.0	-3.920	-3.430	0.390	-0.0023	-0.0020	0.0002	-2.5 to 2.5	Pass
				10	4.0	-1.470	-8.650	-1.750	-0.0009	-0.0050	-0.0010	-2.5 to 2.5	Pass
				30	4.0	3.130	-10.030	-4.880	0.0018	-0.0057	-0.0028	-2.5 to 2.5	Pass
				40	4.0	1.070	0.720	-6.950	0.0006	0.0004	-0.0039	-2.5 to 2.5	Pass
50	4.0	4.280	-1.140	-7.420	0.0025	-0.0007	-0.0042	-2.5 to 2.5	Pass				
Band: 66 / 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	-10.340	-8.630	-10.970	-0.0060	-0.0049	-0.0062	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation Size	Offset	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)			Verdict		
					LCH	MCH	HCH	LCH	MCH	HCH		Limit	
16QAM	100	0	20	4.0	-0.500	-8.070	-2.700	-0.0003	-0.0046	-0.0015	-2.5 to 2.5	Pass	
				4.4	1.470	5.520	-8.850	0.0009	0.0032	-0.0050	-2.5 to 2.5	Pass	
				-10	4.0	5.340	1.870	-5.690	0.0031	0.0011	-0.0032	-2.5 to 2.5	Pass
				0	4.0	1.630	2.350	-9.360	0.0009	0.0013	-0.0053	-2.5 to 2.5	Pass
				10	4.0	-2.460	-2.370	-4.0.350	-0.0014	-0.0014	-0.0070	-2.5 to 2.5	Pass
				30	4.0	-3.260	4.530	-6.250	-0.0019	0.0026	-0.0035	-2.5 to 2.5	Pass
				40	4.0	-0.530	-3.430	-4.490	-0.0003	-0.0020	-0.0025	-2.5 to 2.5	Pass
				50	4.0	2.800	-6.510	-7.850	0.0016	-0.0037	-0.0044	-2.5 to 2.5	Pass
				20	3.6	3.560	5.740	-7.070	0.0021	0.0033	-0.0040	-2.5 to 2.5	Pass
				4.0	7.170	-1.590	-1.520	0.0042	-0.0009	-0.0009	-2.5 to 2.5	Pass	
4.4	-8.040	-7.140	-13.360	-0.0047	-0.0041	-0.0075	-2.5 to 2.5	Pass					
-10	4.0	-4.330	3.550	-11.490	-0.0025	0.0020	-0.0065	-2.5 to 2.5	Pass				
0	4.0	2.720	0.820	-9.730	0.0016	0.0005	-0.0055	-2.5 to 2.5	Pass				
10	4.0	-1.290	1.830	-7.550	-0.0008	0.0010	-0.0043	-2.5 to 2.5	Pass				
30	4.0	-0.970	0.870	-7.970	-0.0006	0.0005	-0.0045	-2.5 to 2.5	Pass				
40	4.0	2.920	-2.170	-9.230	0.0017	-0.004.0	-0.0052	-2.5 to 2.5	Pass				
50	4.0	0.230	1.240	-7.010	0.0001	0.0007	-0.0040	-2.5 to 2.5	Pass				
64QAM	100	0	20	3.6	-5.580	-3.590	-8.050	-0.0032	-0.0021	-0.0045	-2.5 to 2.5	Pass	
				4.0	3.490	-4.060	-14.290	0.0020	-0.0023	-0.0081	-2.5 to 2.5	Pass	
				4.4	-1.530	5.910	-1.290	-0.0009	0.0034	-0.0007	-2.5 to 2.5	Pass	
				-10	4.0	-6.250	1.860	-6.770	-0.0036	0.0011	-0.0038	-2.5 to 2.5	Pass
				0	4.0	-3.920	-2.900	-4.0.450	-0.0023	-0.0017	-0.0070	-2.5 to 2.5	Pass
				10	4.0	4.620	-5.820	-17.310	0.0027	-0.0033	-0.0098	-2.5 to 2.5	Pass
				30	4.0	2.160	-6.650	-2.880	0.0013	-0.0038	-0.0016	-2.5 to 2.5	Pass
				40	4.0	1.060	5.690	-5.520	0.0006	0.0033	-0.0031	-2.5 to 2.5	Pass
				50	4.0	-4.790	3.930	-8.710	-0.0028	0.0023	-0.0049	-2.5 to 2.5	Pass

1.7 LTE Band 71

1.7.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV													
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	0.400	2.230	-0.490	0.0006	0.0033	-0.0007	-2.5 to 2.5	Pass	
				4.0	0.040	1.520	0.170	0.0001	0.0022	0.0002	-2.5 to 2.5	Pass	
				4.4	-0.100	2.250	0.590	-0.0002	0.0033	0.0008	-2.5 to 2.5	Pass	
				-10	4.0	-0.310	0.540	-0.830	-0.0005	0.0008	-0.004.0	-2.5 to 2.5	Pass
				0	4.0	-0.330	0.740	-1.540	-0.0005	0.0011	-0.0022	-2.5 to 2.5	Pass
				10	4.0	1.270	1.220	-1.070	0.0019	0.0018	-0.0015	-2.5 to 2.5	Pass
				30	4.0	0.890	1.020	-0.840	0.0013	0.0015	-0.004.0	-2.5 to 2.5	Pass
				40	4.0	0.830	2.460	0.990	0.004.0	0.0036	0.0014	-2.5 to 2.5	Pass
				50	4.0	1.760	1.900	0.500	0.0026	0.0028	0.0007	-2.5 to 2.5	Pass
				16QAM	25	0	20	3.6	-0.990	0.900	1.920	-0.0015	0.0013
4.0	1.320	-0.160	1.850					0.0020	-0.0002	0.0027	-2.5 to 2.5	Pass	
4.4	-0.270	-1.000	0.700					-0.0004	-0.0015	0.0010	-2.5 to 2.5	Pass	
-10	4.0	-1.090	-1.970					1.630	-0.0016	-0.0029	0.0023	-2.5 to 2.5	Pass
0	4.0	0.190	-0.040					2.150	0.0003	-0.0001	0.0031	-2.5 to 2.5	Pass
10	4.0	-0.820	-0.270					2.990	-0.004.0	-0.0004	0.0043	-2.5 to 2.5	Pass
30	4.0	-0.060	-1.390					3.020	-0.0001	-0.0020	0.0043	-2.5 to 2.5	Pass
40	4.0	-0.730	-1.970					1.720	-0.0011	-0.0029	0.0025	-2.5 to 2.5	Pass

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)			Verdict		
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		Limit	
64QAM	25	0	50	4.0	-0.530	-1.460	1.690	-0.0008	-0.0021	0.0024	-2.5 to 2.5	Pass	
				20	3.6	2.260	-1.460	0.890	0.0034	-0.0021	0.0013	-2.5 to 2.5	Pass
					4.0	1.260	-1.900	0.870	0.0019	-0.0028	0.0013	-2.5 to 2.5	Pass
			-10	4.4	0.960	-3.060	0.860	0.0014	-0.0045	0.004.0	-2.5 to 2.5	Pass	
				4.0	1.670	-1.960	0.510	0.0025	-0.0029	0.0007	-2.5 to 2.5	Pass	
			0	4.0	0.930	-0.200	0.310	0.0014	-0.0003	0.0004	-2.5 to 2.5	Pass	
			10	4.0	2.030	-1.020	-0.100	0.0031	-0.0015	-0.0001	-2.5 to 2.5	Pass	
			30	4.0	2.100	-1.620	-0.090	0.0032	-0.0024	-0.0001	-2.5 to 2.5	Pass	
Band: 71 / Bandwidth: 10MHz / NTV													
QPSK	50	0	20	3.6	0.860	-0.200	0.300	0.0013	-0.0003	0.0004	-2.5 to 2.5	Pass	
				4.0	0.800	1.730	-0.370	0.004.0	0.0025	-0.0005	-2.5 to 2.5	Pass	
				4.4	-1.090	0.960	0.530	-0.0016	0.0014	0.0008	-2.5 to 2.5	Pass	
			-10	4.0	0.010	0.440	0.900	0.0000	0.0006	0.0013	-2.5 to 2.5	Pass	
				4.0	1.670	0.260	1.4.00	0.0025	0.0004	0.0016	-2.5 to 2.5	Pass	
			10	4.0	0.630	0.160	0.490	0.0009	0.0002	0.0007	-2.5 to 2.5	Pass	
			30	4.0	-1.160	0.200	-0.640	-0.0017	0.0003	-0.0009	-2.5 to 2.5	Pass	
			40	4.0	-1.370	1.500	-0.720	-0.0021	0.0022	-0.0010	-2.5 to 2.5	Pass	
50	4.0	-0.100	1.020	-1.020	-0.0001	0.0015	-0.0015	-2.5 to 2.5	Pass				
16QAM	50	0	20	3.6	-0.940	-0.790	-0.700	-0.0014	-0.004.0	-0.0010	-2.5 to 2.5	Pass	
				4.0	0.800	0.210	-0.970	0.004.0	0.0003	-0.0014	-2.5 to 2.5	Pass	
				4.4	-0.430	0.300	-0.540	-0.0006	0.0004	-0.0008	-2.5 to 2.5	Pass	
			-10	4.0	-0.830	-0.110	-1.930	-0.004.0	-0.0002	-0.0028	-2.5 to 2.5	Pass	
				4.0	-1.270	-0.670	-2.270	-0.0019	-0.0010	-0.0033	-2.5 to 2.5	Pass	
			10	4.0	-1.320	-1.600	-1.060	-0.0020	-0.0024	-0.0015	-2.5 to 2.5	Pass	
			30	4.0	0.190	-2.160	-0.460	0.0003	-0.0032	-0.0007	-2.5 to 2.5	Pass	
			40	4.0	-0.130	-1.240	-0.270	-0.0002	-0.0018	-0.0004	-2.5 to 2.5	Pass	
50	4.0	-0.300	-1.630	-0.310	-0.0004	-0.0024	-0.0004	-2.5 to 2.5	Pass				
64QAM	50	0	20	3.6	-0.470	0.940	-1.530	-0.0007	0.0014	-0.0022	-2.5 to 2.5	Pass	
				4.0	-0.460	1.430	-1.800	-0.0007	0.0021	-0.0026	-2.5 to 2.5	Pass	
				4.4	-0.870	2.150	-1.290	-0.0013	0.0032	-0.0019	-2.5 to 2.5	Pass	
			-10	4.0	0.210	1.770	0.010	0.0003	0.0026	0.0000	-2.5 to 2.5	Pass	
				4.0	0.190	1.830	0.500	0.0003	0.0027	0.0007	-2.5 to 2.5	Pass	
			10	4.0	0.720	1.760	0.470	0.0011	0.0026	0.0007	-2.5 to 2.5	Pass	
			30	4.0	1.430	0.670	0.100	0.0021	0.0010	0.0001	-2.5 to 2.5	Pass	
			40	4.0	0.740	-0.030	-0.060	0.0011	0.0000	-0.0001	-2.5 to 2.5	Pass	
50	4.0	0.240	-0.090	-0.860	0.0004	-0.0001	-0.004.0	-2.5 to 2.5	Pass				
Band: 71 / Bandwidth: 15MHz / NTV													
QPSK	75	0	20	3.6	-0.140	-0.560	0.860	-0.0002	-0.0008	0.004.0	-2.5 to 2.5	Pass	
				4.0	-1.030	-1.830	-0.290	-0.0015	-0.0027	-0.0004	-2.5 to 2.5	Pass	
				4.4	0.200	-0.600	0.010	0.0003	-0.0009	0.0000	-2.5 to 2.5	Pass	
			-10	4.0	-0.690	-0.510	0.590	-0.0010	-0.0007	0.0009	-2.5 to 2.5	Pass	
				4.0	-0.100	0.170	0.270	-0.0001	0.0002	0.0004	-2.5 to 2.5	Pass	
			10	4.0	-0.130	-0.240	-0.600	-0.0002	-0.0004	-0.0009	-2.5 to 2.5	Pass	
			30	4.0	-1.660	-0.010	-0.060	-0.0025	0.0000	-0.0001	-2.5 to 2.5	Pass	
			40	4.0	-0.590	-0.370	0.230	-0.0009	-0.0005	0.0003	-2.5 to 2.5	Pass	
50	4.0	-1.420	-0.040	-0.340	-0.0021	-0.0001	-0.0005	-2.5 to 2.5	Pass				
16QAM	75	0	20	3.6	-1.160	-0.140	-1.490	-0.0017	-0.0002	-0.0022	-2.5 to 2.5	Pass	
				4.0	-1.190	-0.870	0.510	-0.0018	-0.0013	0.0007	-2.5 to 2.5	Pass	
				4.4	-2.130	-1.170	0.030	-0.0032	-0.0017	0.0000	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)			Verdict			
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		Limit		
Band: 71 / Bandwidth: 20MHz / NTNV														
					-10	4.0	-3.050	0.010	0.400	-0.0045	0.0000	0.0006	-2.5 to 2.5	Pass
					0	4.0	-3.350	0.060	0.490	-0.0050	0.0001	0.0007	-2.5 to 2.5	Pass
					10	4.0	-2.960	0.790	-0.940	-0.0044	0.004.0	-0.0014	-2.5 to 2.5	Pass
					30	4.0	-3.130	-0.860	-1.240	-0.0047	-0.0013	-0.0018	-2.5 to 2.5	Pass
					40	4.0	-3.090	-1.720	0.860	-0.0046	-0.0025	0.004.0	-2.5 to 2.5	Pass
					50	4.0	-2.430	-1.070	-1.760	-0.0036	-0.0016	-0.0025	-2.5 to 2.5	Pass
64QAM	75	0			20	3.6	-0.960	-1.700	-0.630	-0.0014	-0.0025	-0.0009	-2.5 to 2.5	Pass
					4.0	-1.270	-1.040	-0.560	-0.0019	-0.0015	-0.0008	-2.5 to 2.5	Pass	
					4.4	-1.930	-0.640	-1.200	-0.0029	-0.0009	-0.0017	-2.5 to 2.5	Pass	
					-10	4.0	-0.560	-0.240	-1.970	-0.0008	-0.0004	-0.0029	-2.5 to 2.5	Pass
					0	4.0	0.170	0.560	-1.060	0.0003	0.0008	-0.0015	-2.5 to 2.5	Pass
					10	4.0	-0.640	0.210	-1.300	-0.0010	0.0003	-0.0019	-2.5 to 2.5	Pass
					30	4.0	-1.4.00	-0.210	-0.530	-0.0017	-0.0003	-0.0008	-2.5 to 2.5	Pass
					40	4.0	0.260	-0.190	-2.020	0.0004	-0.0003	-0.0029	-2.5 to 2.5	Pass
50	4.0	-0.410	-0.440	-0.800	-0.0006	-0.0006	-0.004.0	-2.5 to 2.5	Pass					
QPSK	100	0			20	3.6	0.540	-1.270	-2.450	0.0008	-0.0019	-0.0036	-2.5 to 2.5	Pass
					4.0	-2.060	-0.600	-2.690	-0.0031	-0.0009	-0.0039	-2.5 to 2.5	Pass	
					4.4	-0.530	-1.200	-1.460	-0.0008	-0.0018	-0.0021	-2.5 to 2.5	Pass	
					-10	4.0	-0.300	-1.290	-2.880	-0.0004	-0.0019	-0.0042	-2.5 to 2.5	Pass
					0	4.0	-2.030	-0.530	-2.330	-0.0030	-0.0008	-0.0034	-2.5 to 2.5	Pass
					10	4.0	0.390	-0.720	-2.550	0.0006	-0.0011	-0.0037	-2.5 to 2.5	Pass
					30	4.0	-0.640	-1.060	-1.790	-0.0010	-0.0016	-0.0026	-2.5 to 2.5	Pass
					40	4.0	-0.960	-0.210	-1.040	-0.0014	-0.0003	-0.0015	-2.5 to 2.5	Pass
50	4.0	-1.190	0.100	-1.030	-0.0018	0.0001	-0.0015	-2.5 to 2.5	Pass					
16QAM	100	0			20	3.6	0.460	-0.440	-0.160	0.0007	-0.0006	-0.0002	-2.5 to 2.5	Pass
					4.0	-0.720	-1.390	-0.060	-0.0011	-0.0020	-0.0001	-2.5 to 2.5	Pass	
					4.4	-0.160	0.140	-0.040	-0.0002	0.0002	-0.0001	-2.5 to 2.5	Pass	
					-10	4.0	0.070	-0.620	-0.490	0.0001	-0.0009	-0.0007	-2.5 to 2.5	Pass
					0	4.0	-1.720	0.300	-0.460	-0.0026	0.0004	-0.0007	-2.5 to 2.5	Pass
					10	4.0	-1.530	-1.770	-2.470	-0.0023	-0.0026	-0.0036	-2.5 to 2.5	Pass
					30	4.0	-1.990	-0.800	-2.890	-0.0030	-0.004.0	-0.0042	-2.5 to 2.5	Pass
					40	4.0	-1.190	-1.340	-2.570	-0.0018	-0.0020	-0.0037	-2.5 to 2.5	Pass
50	4.0	-1.530	-0.540	-2.890	-0.0023	-0.0008	-0.0042	-2.5 to 2.5	Pass					
64QAM	100	0			20	3.6	0.170	-1.060	-0.970	0.0003	-0.0016	-0.0014	-2.5 to 2.5	Pass
					4.0	-1.200	0.100	-2.030	-0.0018	0.0001	-0.0030	-2.5 to 2.5	Pass	
					4.4	-0.310	-1.560	-2.500	-0.0005	-0.0023	-0.0036	-2.5 to 2.5	Pass	
					-10	4.0	-1.790	-0.900	-1.790	-0.0027	-0.0013	-0.0026	-2.5 to 2.5	Pass
					0	4.0	-2.300	-1.140	-2.430	-0.0034	-0.0017	-0.0035	-2.5 to 2.5	Pass
					10	4.0	-2.4.00	-1.140	-2.650	-0.0032	-0.0017	-0.0039	-2.5 to 2.5	Pass
					30	4.0	-1.340	-0.920	-0.720	-0.0020	-0.0014	-0.0010	-2.5 to 2.5	Pass
					40	4.0	-1.760	-0.820	0.070	-0.0026	-0.004.0	0.0001	-2.5 to 2.5	Pass
50	4.0	-0.740	-1.690	-1.160	-0.0011	-0.0025	-0.0017	-2.5 to 2.5	Pass					

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## 1.8 LTE Band 41

### 1.8.1 Test Result

Band: 41 / Bandwidth: 5MHz															
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict						
		Size	Offset				Result	Limit							
QPSK	2498.5	25	0	20	3.6	-8.20	-0.00	-2.5 to 2.5	Pass						
					4.0	-2.09	-0.00	-2.5 to 2.5	Pass						
					4.4	-6.05	-0.00	-2.5 to 2.5	Pass						
				2593	25	0	-10	4.0	-7.45	-0.00	-2.5 to 2.5	Pass			
								0	4.0	-10.76	-0.00	-2.5 to 2.5	Pass		
								10	4.0	-14.86	-0.01	-2.5 to 2.5	Pass		
							2687.5	25	0	30	4.0	-17.57	-0.01	-2.5 to 2.5	Pass
											40	4.0	-18.64	-0.01	-2.5 to 2.5
	50	4.0	-16.94								-0.01	-2.5 to 2.5	Pass		
	2498.5	25	0							20	3.6	-6.91	-0.00	-2.5 to 2.5	Pass
				4.0	-8.60	-0.00					-2.5 to 2.5	Pass			
				4.4	-9.84	-0.00					-2.5 to 2.5	Pass			
				2593	25	0				-10	4.0	-8.64	-0.00	-2.5 to 2.5	Pass
							0	4.0	-2.50		-0.00	-2.5 to 2.5	Pass		
							10	4.0	-10.66		-0.00	-2.5 to 2.5	Pass		
							2687.5	25	0	30	4.0	-9.51	-0.00	-2.5 to 2.5	Pass
	40	4.0	-7.00								-0.00	-2.5 to 2.5	Pass		
	50	4.0	-3.68								-0.00	-2.5 to 2.5	Pass		
	2498.5	25	0							20	3.6	-25.23	-0.01	-2.5 to 2.5	Pass
				4.0	-29.23	-0.01					-2.5 to 2.5	Pass			
				4.4	-30.13	-0.01					-2.5 to 2.5	Pass			
				2593	25	0				-10	4.0	-30.30	-0.01	-2.5 to 2.5	Pass
							0	4.0	-27.39		-0.01	-2.5 to 2.5	Pass		
							10	4.0	-22.39		-0.01	-2.5 to 2.5	Pass		
2498.5							25	0	30	4.0	-19.73	-0.01	-2.5 to 2.5	Pass	
	40	4.0	-30.66							-0.01	-2.5 to 2.5	Pass			
	50	4.0	-17.19							-0.01	-2.5 to 2.5	Pass			
	2593	25	0						20	3.6	-7.41	-0.00	-2.5 to 2.5	Pass	
				4.0	-5.39	-0.00				-2.5 to 2.5	Pass				
				4.4	-15.25	-0.01				-2.5 to 2.5	Pass				
				2498.5	25	0			-10	4.0	-16.11	-0.01	-2.5 to 2.5	Pass	
0							4.0	-13.63		-0.01	-2.5 to 2.5	Pass			
10							4.0	-7.70		-0.00	-2.5 to 2.5	Pass			
2593							25	0	30	4.0	-7.68	-0.00	-2.5 to 2.5	Pass	
	40	4.0	-16.81							-0.01	-2.5 to 2.5	Pass			
	50	4.0	-9.88							-0.00	-2.5 to 2.5	Pass			
	2498.5	25	0						20	3.6	-15.11	-0.01	-2.5 to 2.5	Pass	
				4.0	-19.07	-0.01				-2.5 to 2.5	Pass				
				4.4	-16.68	-0.01				-2.5 to 2.5	Pass				
				2593	25	0			-10	4.0	-10.41	-0.00	-2.5 to 2.5	Pass	
0							4.0	-4.022		-0.00	-2.5 to 2.5	Pass			
10							4.0	-4.045		-0.00	-2.5 to 2.5	Pass			
2498.5							25	0	30	4.0	-4.006	-0.00	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
64QAM	2687.5	25	0	40	4.0	-8.10	-0.00	-2.5 to 2.5	Pass	
				50	4.0	-2.22	-0.00	-2.5 to 2.5	Pass	
				20	3.6	-24.10	-0.01	-2.5 to 2.5	Pass	
					4.0	-30.31	-0.01	-2.5 to 2.5	Pass	
					4.4	-22.17	-0.01	-2.5 to 2.5	Pass	
				-10	4.0	-22.57	-0.01	-2.5 to 2.5	Pass	
				0	4.0	-18.54	-0.01	-2.5 to 2.5	Pass	
				10	4.0	-13.96	-0.01	-2.5 to 2.5	Pass	
				30	4.0	-16.39	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-21.13	-0.01	-2.5 to 2.5	Pass	
	50	4.0	-25.56	-0.01	-2.5 to 2.5	Pass				
	2498.5	25	0	20	3.6	-7.94	-0.00	-2.5 to 2.5	Pass	
					4.0	-21.33	-0.01	-2.5 to 2.5	Pass	
					4.4	-7.04	-0.00	-2.5 to 2.5	Pass	
				-10	4.0	-2.37	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-9.13	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-8.50	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-17.37	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-17.84	-0.01	-2.5 to 2.5	Pass	
				50	4.0	-19.47	-0.01	-2.5 to 2.5	Pass	
				2593	25	0	20	3.6	-11.50	-0.00
		4.0	-11.33					-0.00	-2.5 to 2.5	Pass
		4.4	-11.24					-0.00	-2.5 to 2.5	Pass
		-10	4.0				-4.015	-0.00	-2.5 to 2.5	Pass
		0	4.0				-1.49	-0.00	-2.5 to 2.5	Pass
		10	4.0				-10.77	-0.00	-2.5 to 2.5	Pass
		30	4.0				-6.62	-0.00	-2.5 to 2.5	Pass
		40	4.0				-2.45	-0.00	-2.5 to 2.5	Pass
2687.5		25	0	20	3.6	-31.33	-0.01	-2.5 to 2.5	Pass	
	4.0				-24.06	-0.01	-2.5 to 2.5	Pass		
	4.4				-30.30	-0.01	-2.5 to 2.5	Pass		
	-10			4.0	-22.89	-0.01	-2.5 to 2.5	Pass		
	0			4.0	-29.04	-0.01	-2.5 to 2.5	Pass		
	10			4.0	-24.75	-0.01	-2.5 to 2.5	Pass		
	30			4.0	-21.66	-0.01	-2.5 to 2.5	Pass		
	40			4.0	-21.64	-0.01	-2.5 to 2.5	Pass		
	50			4.0	-26.78	-0.01	-2.5 to 2.5	Pass		
	Band: 41 / Bandwidth: 10MHz									
QPSK	2501	50	0	20	3.6	-13.4.0	-0.01	-2.5 to 2.5	Pass	
					4.0	-11.34	-0.00	-2.5 to 2.5	Pass	
					4.4	-9.67	-0.00	-2.5 to 2.5	Pass	
				-10	4.0	-15.06	-0.01	-2.5 to 2.5	Pass	
				0	4.0	-15.94	-0.01	-2.5 to 2.5	Pass	
				10	4.0	-10.90	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-19.08	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-20.91	-0.01	-2.5 to 2.5	Pass	
				50	4.0	-4.18	-0.00	-2.5 to 2.5	Pass	
				2593	50	0	20	3.6	-17.22	-0.01
	4.0	-15.98	-0.01					-2.5 to 2.5	Pass	
	4.4	-8.08	-0.00					-2.5 to 2.5	Pass	

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				-10	4.0	-14.75	-0.01	-2.5 to 2.5	Pass			
				0	4.0	-9.76	-0.00	-2.5 to 2.5	Pass			
				10	4.0	-10.41	-0.00	-2.5 to 2.5	Pass			
				30	4.0	-14.39	-0.01	-2.5 to 2.5	Pass			
				40	4.0	-8.67	-0.00	-2.5 to 2.5	Pass			
				50	4.0	-3.10	-0.00	-2.5 to 2.5	Pass			
	2685	50	0	20	3.6	-10.99	-0.00	-2.5 to 2.5	Pass			
					4.0	-9.36	-0.00	-2.5 to 2.5	Pass			
					4.4	-5.71	-0.00	-2.5 to 2.5	Pass			
				-10	0	0	0	4.0	-5.02	-0.00	-2.5 to 2.5	Pass
								4.0	-3.83	-0.00	-2.5 to 2.5	Pass
								4.0	-4.0.10	-0.00	-2.5 to 2.5	Pass
								4.0	-16.68	-0.01	-2.5 to 2.5	Pass
								4.0	-13.98	-0.01	-2.5 to 2.5	Pass
								4.0	-6.92	-0.00	-2.5 to 2.5	Pass
16QAM	2501	50	0	20	3.6	-19.20	-0.01	-2.5 to 2.5	Pass			
					4.0	-11.36	-0.00	-2.5 to 2.5	Pass			
					4.4	-11.69	-0.00	-2.5 to 2.5	Pass			
				-10	0	0	0	4.0	-17.80	-0.01	-2.5 to 2.5	Pass
								4.0	-13.59	-0.01	-2.5 to 2.5	Pass
								4.0	-15.34	-0.01	-2.5 to 2.5	Pass
								4.0	-10.93	-0.00	-2.5 to 2.5	Pass
								4.0	-8.18	-0.00	-2.5 to 2.5	Pass
								4.0	-18.61	-0.01	-2.5 to 2.5	Pass
	2593	50	0	20	3.6	-7.98	-0.00	-2.5 to 2.5	Pass			
					4.0	-16.47	-0.01	-2.5 to 2.5	Pass			
					4.4	-11.26	-0.00	-2.5 to 2.5	Pass			
				-10	0	0	0	4.0	-6.75	-0.00	-2.5 to 2.5	Pass
								4.0	-3.4.0	-0.00	-2.5 to 2.5	Pass
								4.0	-11.66	-0.00	-2.5 to 2.5	Pass
								4.0	-6.92	-0.00	-2.5 to 2.5	Pass
								4.0	-8.88	-0.00	-2.5 to 2.5	Pass
								4.0	-4.51	-0.00	-2.5 to 2.5	Pass
	2685	50	0	20	3.6	-17.28	-0.01	-2.5 to 2.5	Pass			
					4.0	-9.78	-0.00	-2.5 to 2.5	Pass			
					4.4	-9.36	-0.00	-2.5 to 2.5	Pass			
				-10	0	0	0	4.0	-14.83	-0.01	-2.5 to 2.5	Pass
								4.0	-6.59	-0.00	-2.5 to 2.5	Pass
								4.0	-11.00	-0.00	-2.5 to 2.5	Pass
								4.0	-11.00	-0.00	-2.5 to 2.5	Pass
								4.0	-4.0.02	-0.00	-2.5 to 2.5	Pass
								4.0	-10.06	-0.00	-2.5 to 2.5	Pass
64QAM	2501	50	0	20	3.6	-4.0.70	-0.01	-2.5 to 2.5	Pass			
					4.0	-9.67	-0.00	-2.5 to 2.5	Pass			
					4.4	-5.84	-0.00	-2.5 to 2.5	Pass			
				-10	0	0	0	4.0	-11.23	-0.00	-2.5 to 2.5	Pass
								4.0	-16.61	-0.01	-2.5 to 2.5	Pass
								4.0	-11.87	-0.00	-2.5 to 2.5	Pass
								4.0	-2.83	-0.00	-2.5 to 2.5	Pass
								4.0	-4.71	-0.00	-2.5 to 2.5	Pass
								4.0	-3.91	-0.00	-2.5 to 2.5	Pass
	2593	50	0	0	20	3.6	-7.02	-0.00	-2.5 to 2.5	Pass		
						4.0	-13.79	-0.01	-2.5 to 2.5	Pass		

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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
Band: 41 / Bandwidth: 15MHz										
QPSK	2685	50	0	20	4.4	-10.30	-0.00	-2.5 to 2.5	Pass	
					-10	4.0	-4.072	-0.00	-2.5 to 2.5	Pass
					0	4.0	-6.11	-0.00	-2.5 to 2.5	Pass
					10	4.0	-4.29	-0.00	-2.5 to 2.5	Pass
					30	4.0	-7.87	-0.00	-2.5 to 2.5	Pass
					40	4.0	-17.52	-0.01	-2.5 to 2.5	Pass
				50	4.0	-14.36	-0.01	-2.5 to 2.5	Pass	
				20	3.6	-19.18	-0.01	-2.5 to 2.5	Pass	
					4.0	-10.04	-0.00	-2.5 to 2.5	Pass	
					4.4	-15.72	-0.01	-2.5 to 2.5	Pass	
					-10	4.0	-15.05	-0.01	-2.5 to 2.5	Pass
					0	4.0	-9.94	-0.00	-2.5 to 2.5	Pass
	10	4.0	-11.50		-0.00	-2.5 to 2.5	Pass			
	2503.5	75	0	20	3.6	-2.66	-0.00	-2.5 to 2.5	Pass	
					4.0	-10.89	-0.00	-2.5 to 2.5	Pass	
					4.4	-5.05	-0.00	-2.5 to 2.5	Pass	
					-10	4.0	-9.97	-0.00	-2.5 to 2.5	Pass
					0	4.0	-13.75	-0.01	-2.5 to 2.5	Pass
					10	4.0	-14.78	-0.01	-2.5 to 2.5	Pass
				20	30	4.0	-6.42	-0.00	-2.5 to 2.5	Pass
					40	4.0	-17.44	-0.01	-2.5 to 2.5	Pass
					50	4.0	-17.42	-0.01	-2.5 to 2.5	Pass
					20	3.6	-6.19	-0.00	-2.5 to 2.5	Pass
						4.0	-8.83	-0.00	-2.5 to 2.5	Pass
4.4						-8.75	-0.00	-2.5 to 2.5	Pass	
-10	4.0	-8.04	-0.00	-2.5 to 2.5		Pass				
0	4.0	-10.49	-0.00	-2.5 to 2.5		Pass				
10	4.0	-4.063	-0.00	-2.5 to 2.5		Pass				
2682.5	75	0	20	30	4.0	-15.56	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-10.06	-0.00	-2.5 to 2.5	Pass	
				50	4.0	-15.84	-0.01	-2.5 to 2.5	Pass	
				20	3.6	-6.77	-0.00	-2.5 to 2.5	Pass	
					4.0	-10.70	-0.00	-2.5 to 2.5	Pass	
					4.4	-10.94	-0.00	-2.5 to 2.5	Pass	
			-10		4.0	2.96	0.00	-2.5 to 2.5	Pass	
			0		4.0	-7.94	-0.00	-2.5 to 2.5	Pass	
			10		4.0	-13.16	-0.00	-2.5 to 2.5	Pass	
			20	30	4.0	-16.32	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-11.50	-0.00	-2.5 to 2.5	Pass	
				50	4.0	-4.002	-0.00	-2.5 to 2.5	Pass	
20	3.6	-10.99		-0.00	-2.5 to 2.5	Pass				
	4.0	-18.48		-0.01	-2.5 to 2.5	Pass				
	4.4	-11.52		-0.00	-2.5 to 2.5	Pass				
	-10	4.0	-6.90	-0.00	-2.5 to 2.5	Pass				
	0	4.0	-15.58	-0.01	-2.5 to 2.5	Pass				
	10	4.0	-11.14	-0.00	-2.5 to 2.5	Pass				
2503.5	75	0	20	30	4.0	-15.71	-0.01	-2.5 to 2.5	Pass	

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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
64QAM	2593	75	0	40	4.0	-6.55	-0.00	-2.5 to 2.5	Pass			
				50	4.0	-21.39	-0.01	-2.5 to 2.5	Pass			
				20	3.6	-17.35	-0.01	-2.5 to 2.5	Pass			
					4.0	-10.40	-0.00	-2.5 to 2.5	Pass			
					4.4	-4.0.56	-0.00	-2.5 to 2.5	Pass			
				-10	4.0	-8.88	-0.00	-2.5 to 2.5	Pass			
				0	4.0	-10.09	-0.00	-2.5 to 2.5	Pass			
				10	4.0	-10.96	-0.00	-2.5 to 2.5	Pass			
				30	4.0	-0.44	-0.00	-2.5 to 2.5	Pass			
				40	4.0	-8.40	-0.00	-2.5 to 2.5	Pass			
				50	4.0	-6.42	-0.00	-2.5 to 2.5	Pass			
				2682.5	75	0	20	3.6	-9.40	-0.00	-2.5 to 2.5	Pass
	4.0	-4.0.29	-0.00					-2.5 to 2.5	Pass			
	4.4	0.13	0.00					-2.5 to 2.5	Pass			
	-10	4.0	-4.0.17				-0.00	-2.5 to 2.5	Pass			
	0	4.0	-18.65				-0.01	-2.5 to 2.5	Pass			
	10	4.0	-14.73				-0.01	-2.5 to 2.5	Pass			
	30	4.0	-18.65				-0.01	-2.5 to 2.5	Pass			
	40	4.0	-14.93				-0.01	-2.5 to 2.5	Pass			
	50	4.0	-7.14				-0.00	-2.5 to 2.5	Pass			
	2503.5	75	0				20	3.6	-17.85	-0.01	-2.5 to 2.5	Pass
								4.0	-11.90	-0.00	-2.5 to 2.5	Pass
								4.4	-16.28	-0.01	-2.5 to 2.5	Pass
				-10	4.0	-9.28	-0.00	-2.5 to 2.5	Pass			
				0	4.0	-4.82	-0.00	-2.5 to 2.5	Pass			
				10	4.0	-8.81	-0.00	-2.5 to 2.5	Pass			
				30	4.0	-16.88	-0.01	-2.5 to 2.5	Pass			
				40	4.0	-4.0.59	-0.01	-2.5 to 2.5	Pass			
				50	4.0	-14.08	-0.01	-2.5 to 2.5	Pass			
				2593	75	0	20	3.6	-11.00	-0.00	-2.5 to 2.5	Pass
								4.0	-11.72	-0.00	-2.5 to 2.5	Pass
								4.4	-15.06	-0.01	-2.5 to 2.5	Pass
	-10	4.0	-6.68				-0.00	-2.5 to 2.5	Pass			
	0	4.0	-10.07				-0.00	-2.5 to 2.5	Pass			
	10	4.0	-19.98				-0.01	-2.5 to 2.5	Pass			
	30	4.0	-8.81				-0.00	-2.5 to 2.5	Pass			
40	4.0	-10.96	-0.00				-2.5 to 2.5	Pass				
50	4.0	-21.44	-0.01				-2.5 to 2.5	Pass				
2682.5	75	0	20				3.6	-13.59	-0.01	-2.5 to 2.5	Pass	
							4.0	-10.03	-0.00	-2.5 to 2.5	Pass	
							4.4	-8.25	-0.00	-2.5 to 2.5	Pass	
			-10	4.0	-17.71	-0.01	-2.5 to 2.5	Pass				
			0	4.0	-20.74	-0.01	-2.5 to 2.5	Pass				
			10	4.0	-15.42	-0.01	-2.5 to 2.5	Pass				
			30	4.0	-14.26	-0.01	-2.5 to 2.5	Pass				
			40	4.0	-13.70	-0.01	-2.5 to 2.5	Pass				
			50	4.0	-10.31	-0.00	-2.5 to 2.5	Pass				
			Band: 41 / Bandwidth: 20MHz									
			QPSK	2506	100	0	20	3.6	-17.74	-0.01	-2.5 to 2.5	Pass
								4.0	-17.94	-0.01	-2.5 to 2.5	Pass
					4.4	-9.51	-0.00	-2.5 to 2.5	Pass			

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

				-10	4.0	-15.54	-0.01	-2.5 to 2.5	Pass	
				0	4.0	-15.19	-0.01	-2.5 to 2.5	Pass	
				10	4.0	-5.99	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-8.47	-0.00	-2.5 to 2.5	Pass	
				40	4.0	-4.0.80	-0.01	-2.5 to 2.5	Pass	
				50	4.0	-15.38	-0.01	-2.5 to 2.5	Pass	
	2593	100	0	20	3.6	-9.24	-0.00	-2.5 to 2.5	Pass	
					4.0	-16.26	-0.01	-2.5 to 2.5	Pass	
					4.4	-16.59	-0.01	-2.5 to 2.5	Pass	
				-10	4.0	-8.33	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-10.34	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-13.70	-0.01	-2.5 to 2.5	Pass	
				30	4.0	-8.78	-0.00	-2.5 to 2.5	Pass	
				40	4.0	-4.06	-0.00	-2.5 to 2.5	Pass	
	2680	100	0	20	3.6	-11.77	-0.00	-2.5 to 2.5	Pass	
					4.0	-2.83	-0.00	-2.5 to 2.5	Pass	
					4.4	-15.94	-0.01	-2.5 to 2.5	Pass	
				-10	4.0	-14.95	-0.01	-2.5 to 2.5	Pass	
				0	4.0	-19.40	-0.01	-2.5 to 2.5	Pass	
				10	4.0	-4.0.40	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-4.85	-0.00	-2.5 to 2.5	Pass	
				40	4.0	-6.18	-0.00	-2.5 to 2.5	Pass	
	16QAM	2506	100	0	20	3.6	-10.57	-0.00	-2.5 to 2.5	Pass
						4.0	-14.39	-0.01	-2.5 to 2.5	Pass
						4.4	-11.97	-0.00	-2.5 to 2.5	Pass
-10					4.0	-4.0.57	-0.01	-2.5 to 2.5	Pass	
0					4.0	-9.27	-0.00	-2.5 to 2.5	Pass	
10					4.0	-9.98	-0.00	-2.5 to 2.5	Pass	
30					4.0	-3.29	-0.00	-2.5 to 2.5	Pass	
40					4.0	-11.34	-0.00	-2.5 to 2.5	Pass	
2593		100	0	20	3.6	-1.23	-0.00	-2.5 to 2.5	Pass	
					4.0	-7.90	-0.00	-2.5 to 2.5	Pass	
					4.4	-5.97	-0.00	-2.5 to 2.5	Pass	
				-10	4.0	-7.67	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-11.69	-0.00	-2.5 to 2.5	Pass	
				10	4.0	-16.64	-0.01	-2.5 to 2.5	Pass	
				30	4.0	-14.78	-0.01	-2.5 to 2.5	Pass	
				40	4.0	-7.11	-0.00	-2.5 to 2.5	Pass	
2680		100	0	20	3.6	-8.50	-0.00	-2.5 to 2.5	Pass	
					4.0	-9.01	-0.00	-2.5 to 2.5	Pass	
					4.4	-10.49	-0.00	-2.5 to 2.5	Pass	
				-10	4.0	-7.82	-0.00	-2.5 to 2.5	Pass	
				0	4.0	-16.38	-0.01	-2.5 to 2.5	Pass	
				10	4.0	-4.72	-0.00	-2.5 to 2.5	Pass	
				30	4.0	-11.72	-0.00	-2.5 to 2.5	Pass	
				40	4.0	-14.32	-0.01	-2.5 to 2.5	Pass	
64QAM		2506	100	0	20	3.6	-7.15	-0.00	-2.5 to 2.5	Pass
	4.0					-11.96	-0.00	-2.5 to 2.5	Pass	

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**BUREAU VERITAS** Test Report No.: W7L-P20210616-3RF03

Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Limit	Verdict			
						LCH	MCH	HCH
2593	100	0	4.4	-18.50	-0.01	-2.5 to 2.5	Pass	
			-10	4.0	-9.94	-0.00	-2.5 to 2.5	Pass
			0	4.0	-18.77	-0.01	-2.5 to 2.5	Pass
			10	4.0	-5.75	-0.00	-2.5 to 2.5	Pass
			30	4.0	-13.05	-0.01	-2.5 to 2.5	Pass
			40	4.0	-6.74	-0.00	-2.5 to 2.5	Pass
			50	4.0	-3.26	-0.00	-2.5 to 2.5	Pass
			20	3.6	-6.17	-0.00	-2.5 to 2.5	Pass
			20	4.0	-4.006	-0.00	-2.5 to 2.5	Pass
			20	4.4	-16.44	-0.01	-2.5 to 2.5	Pass
2680	100	0	-10	4.0	-3.82	-0.00	-2.5 to 2.5	Pass
			0	4.0	-7.60	-0.00	-2.5 to 2.5	Pass
			10	4.0	-18.88	-0.01	-2.5 to 2.5	Pass
			30	4.0	-14.41	-0.01	-2.5 to 2.5	Pass
			40	4.0	-16.82	-0.01	-2.5 to 2.5	Pass
			50	4.0	-14.05	-0.01	-2.5 to 2.5	Pass
			20	3.6	-7.42	-0.00	-2.5 to 2.5	Pass
			20	4.0	-7.21	-0.00	-2.5 to 2.5	Pass
			20	4.4	-6.72	-0.00	-2.5 to 2.5	Pass
			20	4.0	-9.88	-0.00	-2.5 to 2.5	Pass

1.9 WCDMABand4

1.9.1 Test Result

Band: 4										
Network	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			Freq. vs. Rated (ppm)				Verdict
			LCH	MCH	HCH	LCH	MCH	HCH	Limit	
RMC	20	3.6	8.630	-4.0.130	-1.960	0.0050	-0.0070	-0.0011	-2.5 to 2.5	Pass
		4.0	8.640	-11.470	-2.200	0.0050	-0.0066	-0.0013	-2.5 to 2.5	Pass
		4.4	8.540	-4.0.430	-1.610	0.0050	-0.0072	-0.0009	-2.5 to 2.5	Pass
	-10	4.0	9.130	-11.540	-1.580	0.0053	-0.0067	-0.0009	-2.5 to 2.5	Pass
	0	4.0	9.200	-11.830	-1.410	0.0054	-0.0068	-0.0008	-2.5 to 2.5	Pass
	10	4.0	8.640	-11.380	-1.720	0.0050	-0.0066	-0.0010	-2.5 to 2.5	Pass
	30	4.0	8.060	-11.100	-1.490	0.0047	-0.0064	-0.0009	-2.5 to 2.5	Pass
	40	4.0	9.560	-11.710	-2.090	0.0056	-0.0068	-0.004.0	-2.5 to 2.5	Pass
50	4.0	8.460	-11.800	-1.520	0.0049	-0.0068	-0.0009	-2.5 to 2.5	Pass	

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## 2. 99% & 26dB Bandwidth

### 2.1 LTE Band 4\_OBW

#### 2.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.4.01	1.105	1.108	/	Pass
16QAM	6	0	1.105	1.096	1.14.0	/	Pass
64QAM	6	0	1.101	1.107	1.102	/	Pass
Band: 4 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.743	2.736	2.739	/	Pass
16QAM	15	0	2.731	2.728	2.738	/	Pass
64QAM	15	0	2.744	2.732	2.736	/	Pass
Band: 4 / 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	4.534	/	Pass
16QAM	25	0	4.540	4.543	4.569	/	Pass
64QAM	25	0	4.536	4.551	4.549	/	Pass
Band: 4 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.026	9.073	9.027	/	Pass
16QAM	50	0	9.047	9.032	9.023	/	Pass
64QAM	50	0	9.077	9.058	9.034	/	Pass
Band: 4 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.558	13.579	13.562	/	Pass
16QAM	75	0	13.583	13.583	13.570	/	Pass
64QAM	75	0	13.585	13.595	13.591	/	Pass
Band: 4 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		99% Occupied Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.079	18.096	18.089	/	Pass
16QAM	100	0	18.143	18.082	18.059	/	Pass
64QAM	100	0	18.024	18.137	18.052	/	Pass

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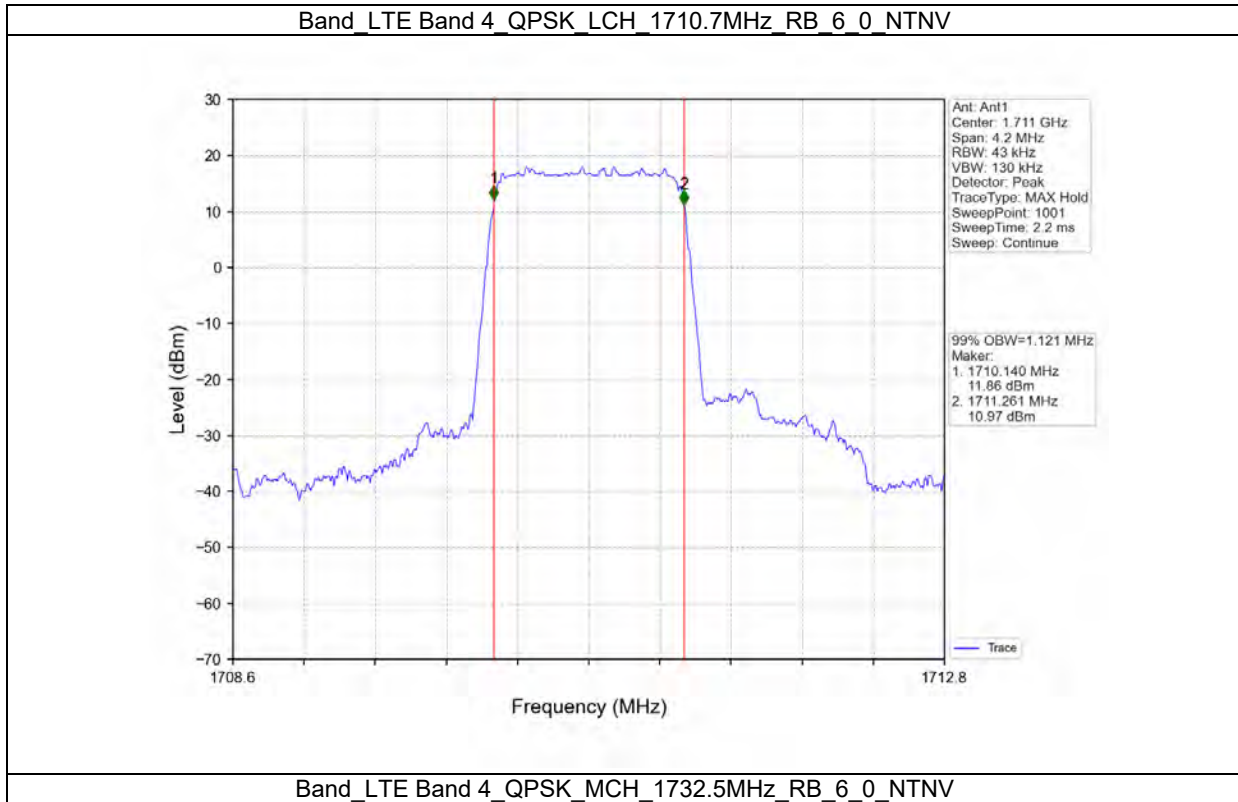
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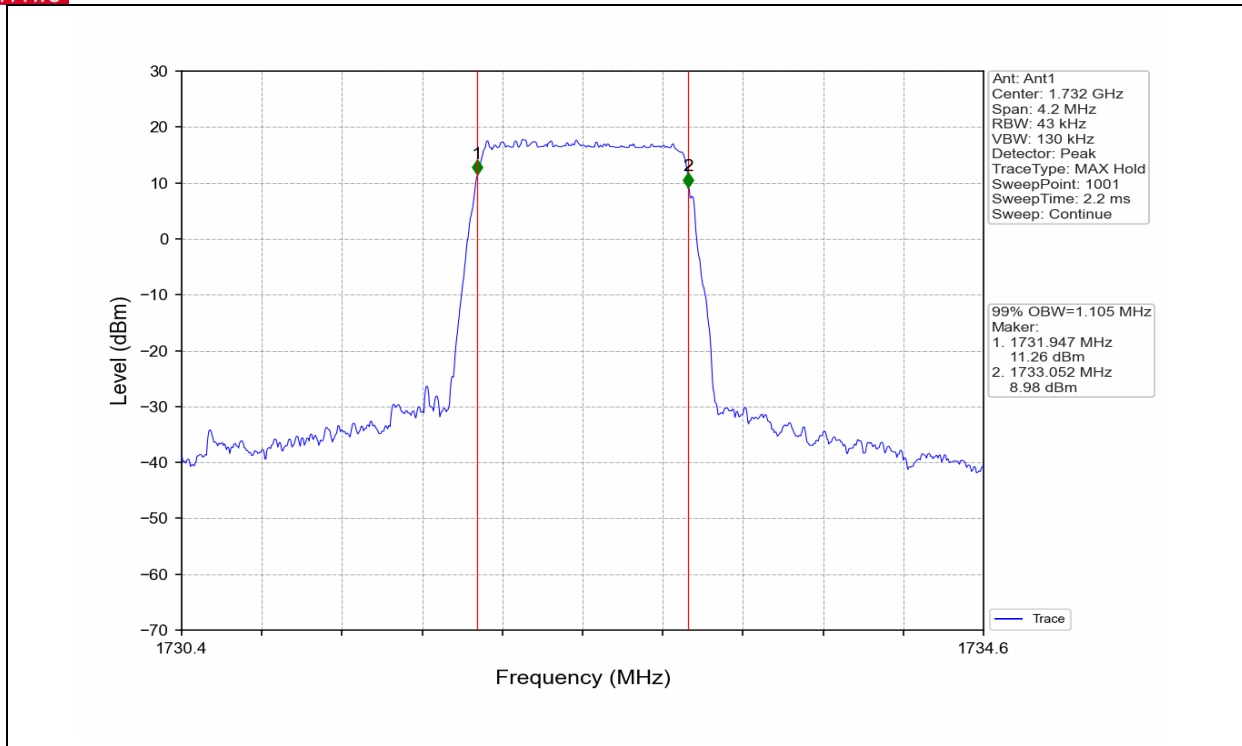
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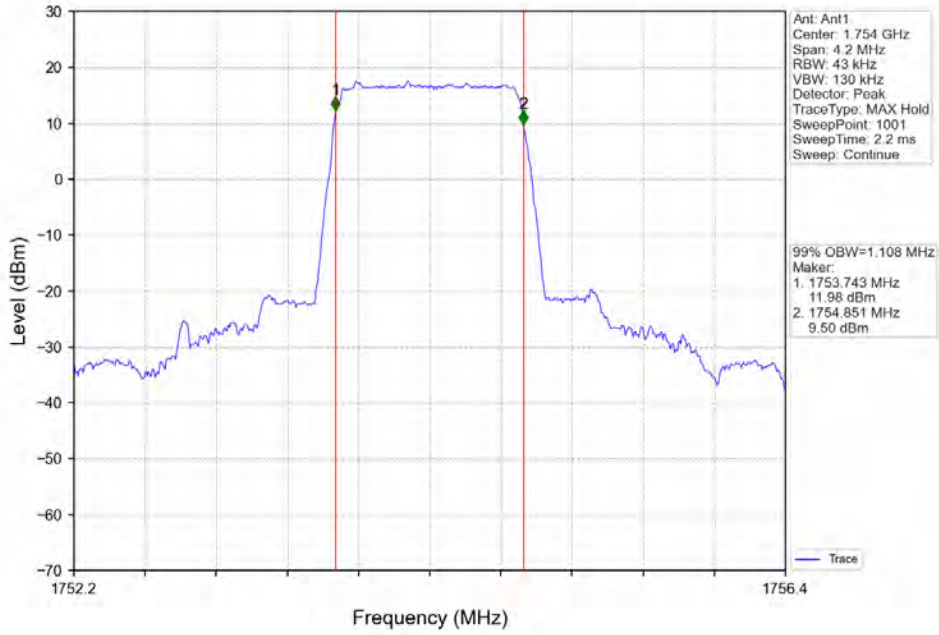
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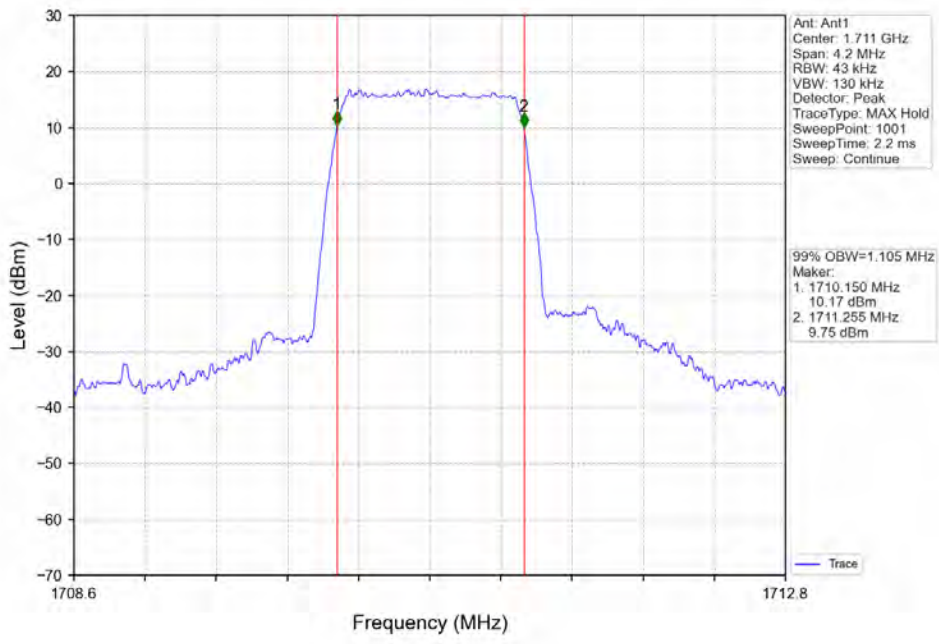




Band LTE Band 4 QPSK HCH 1754.3MHz RB 6 0 NTV



Band LTE Band 4 16QAM LCH 1710.7MHz RB 6 0 NTV



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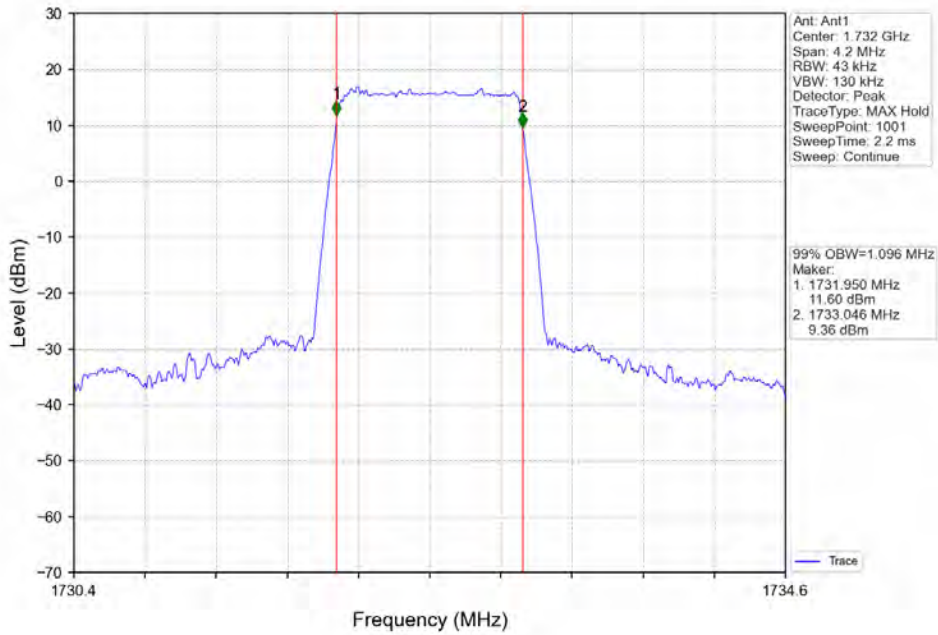
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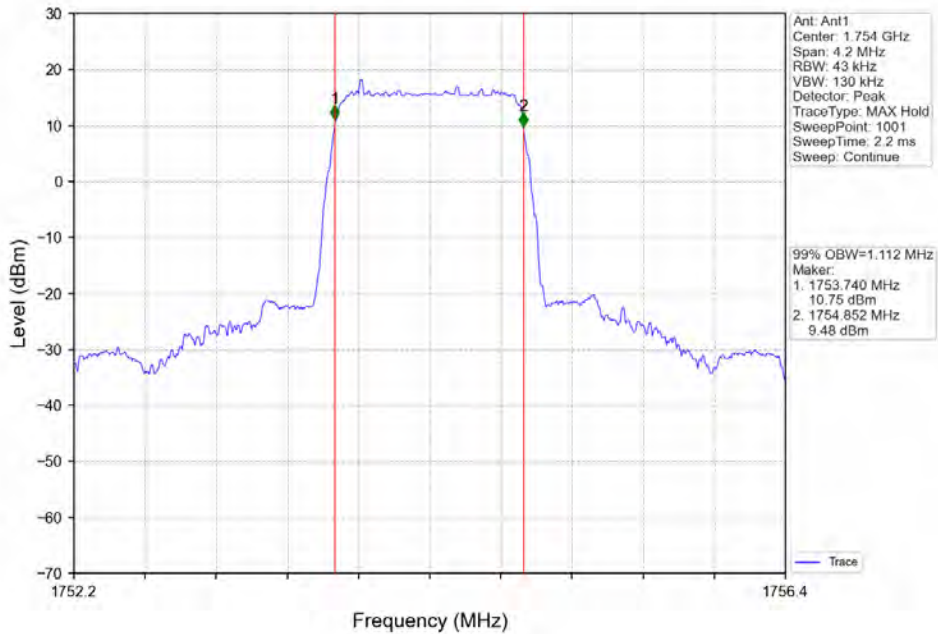




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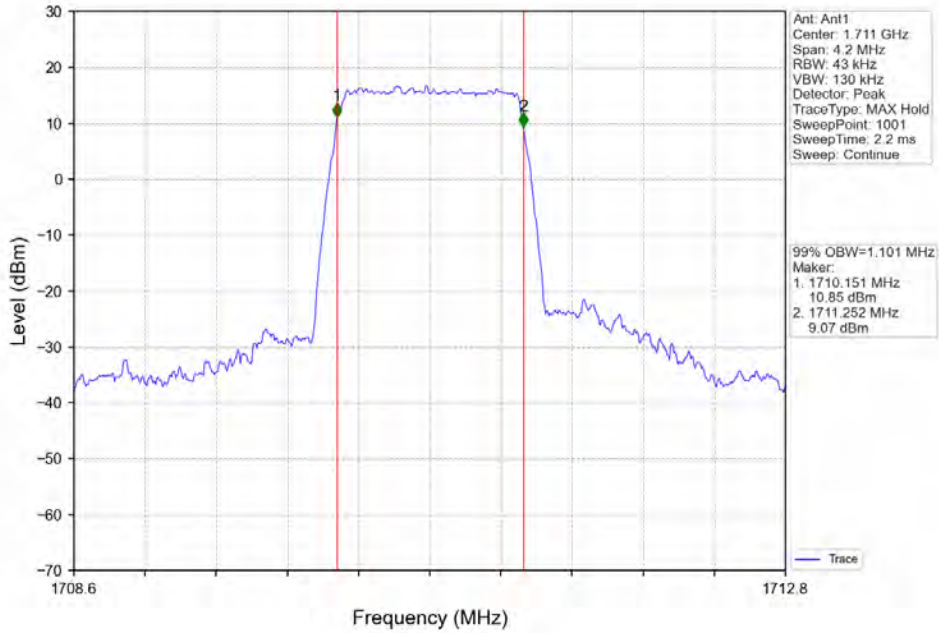
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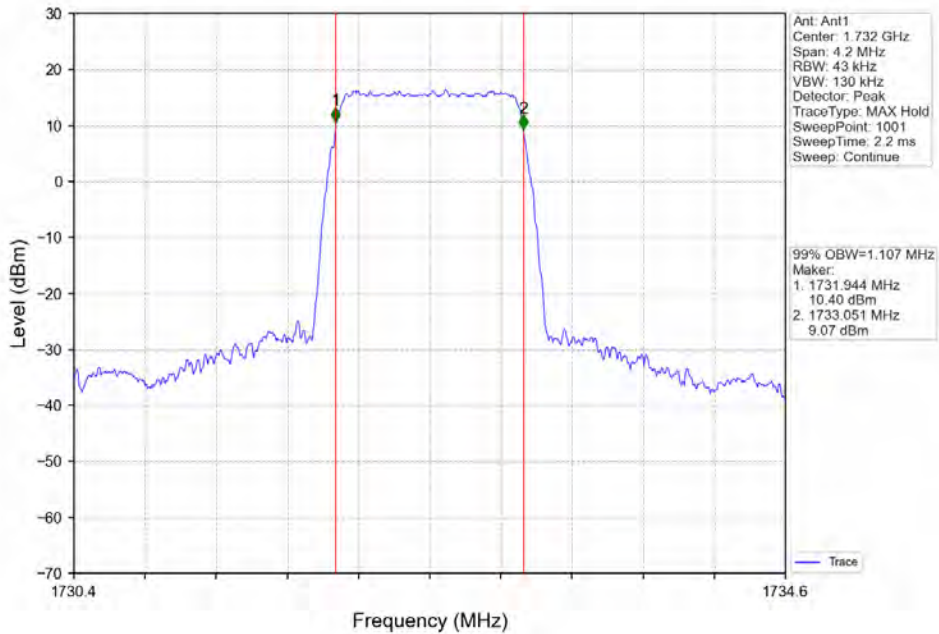




Band\_LTE Band 4\_64QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



Band\_LTE Band 4\_64QAM\_MCH\_1732.5MHz\_RB\_6\_0\_NTNV



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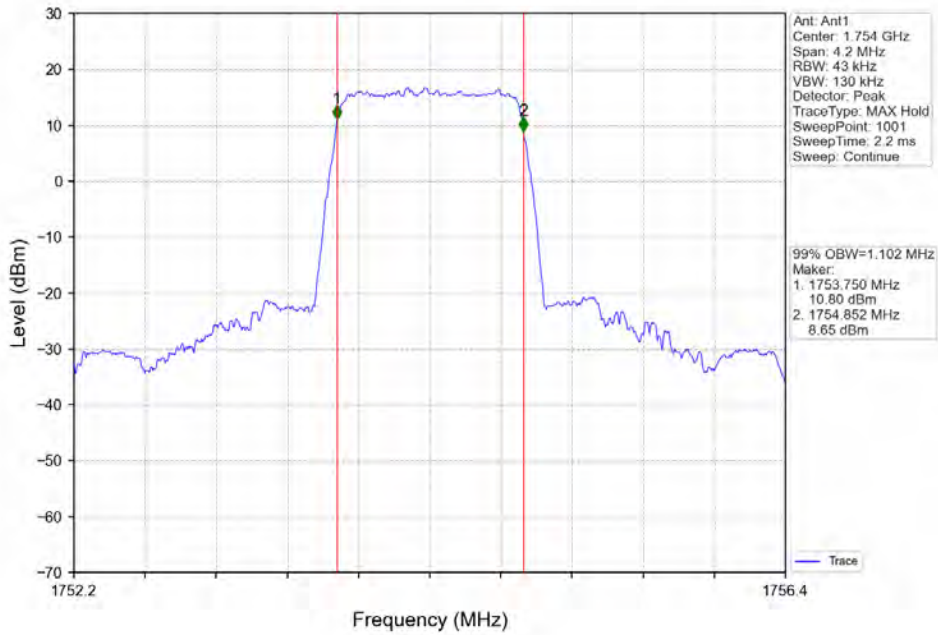
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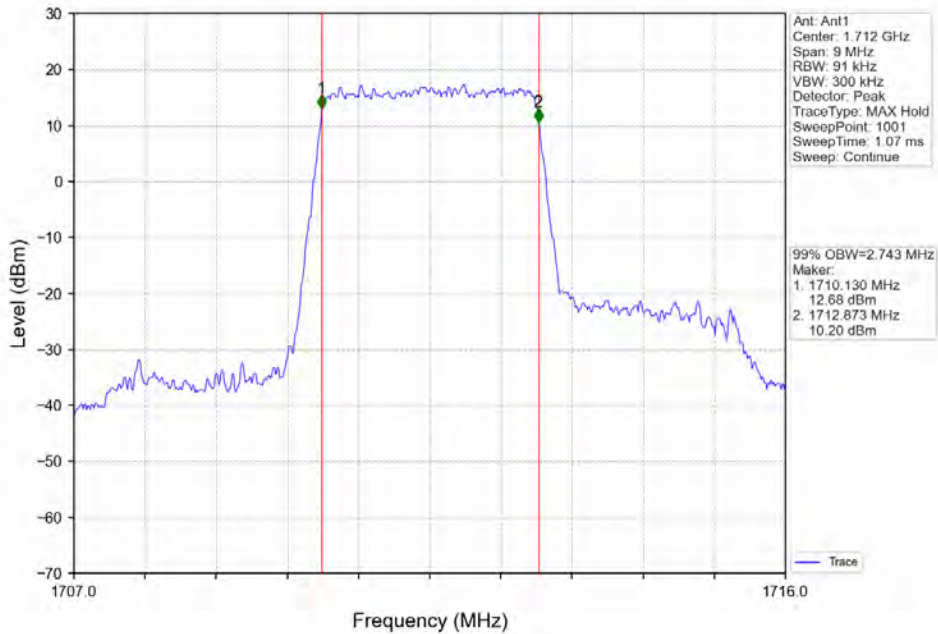
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Band\_LTE Band 4 64QAM HCH 1754.3MHz RB 6 0 NTNV



Band 4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



Band 4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTNV

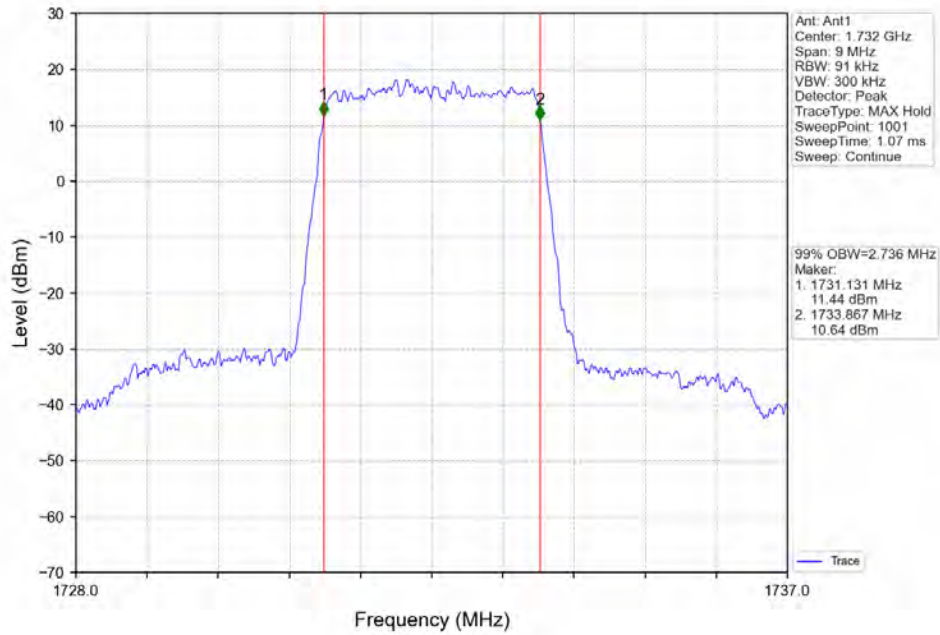
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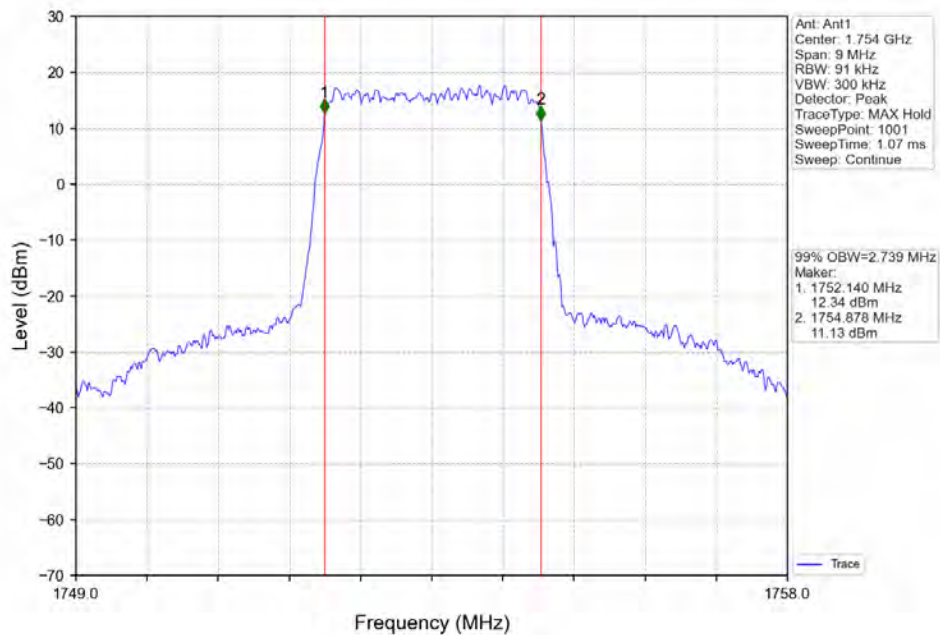
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Band 4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTN



Band 4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTN

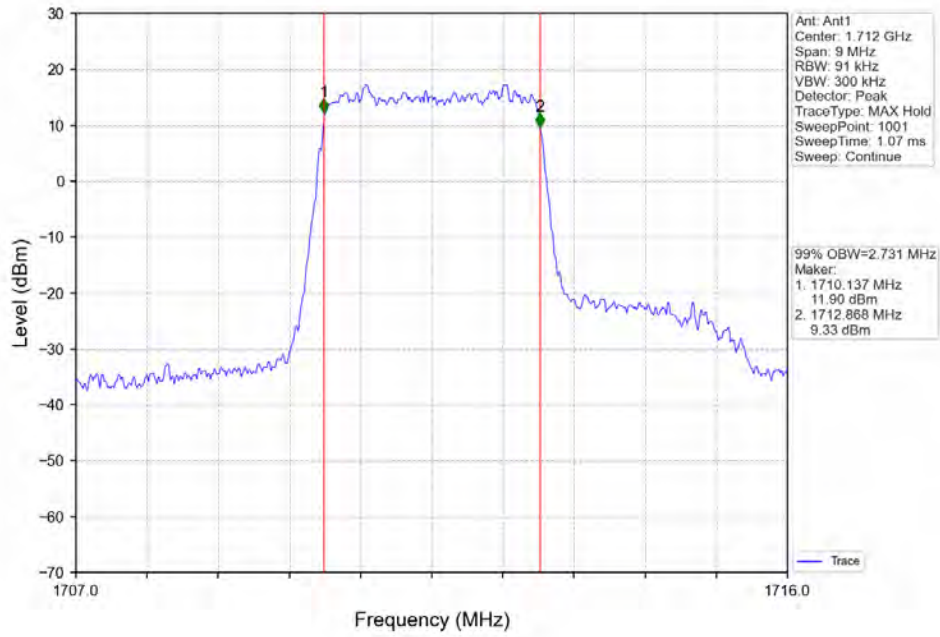
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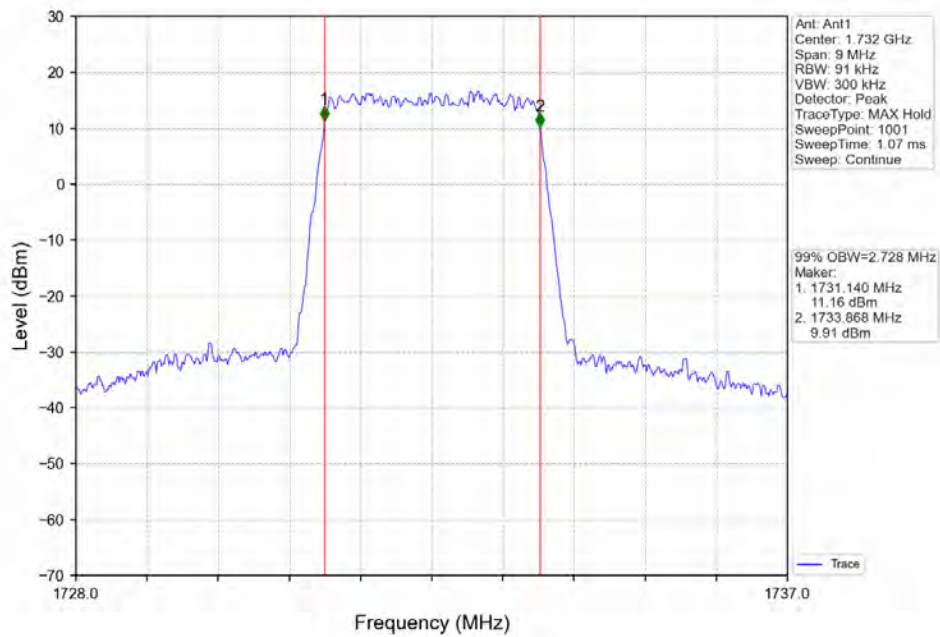
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Band 4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTN



Band 4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTN

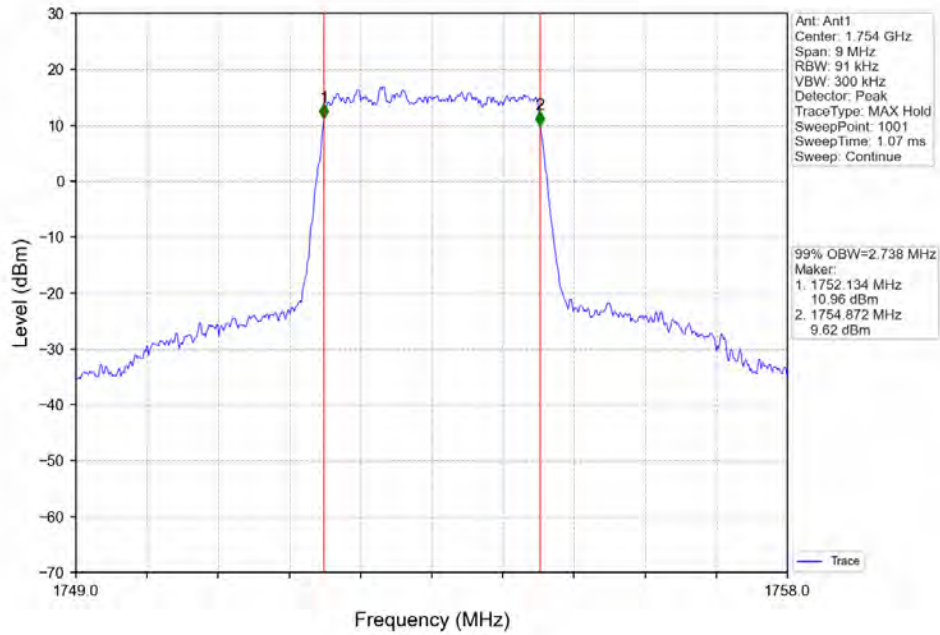
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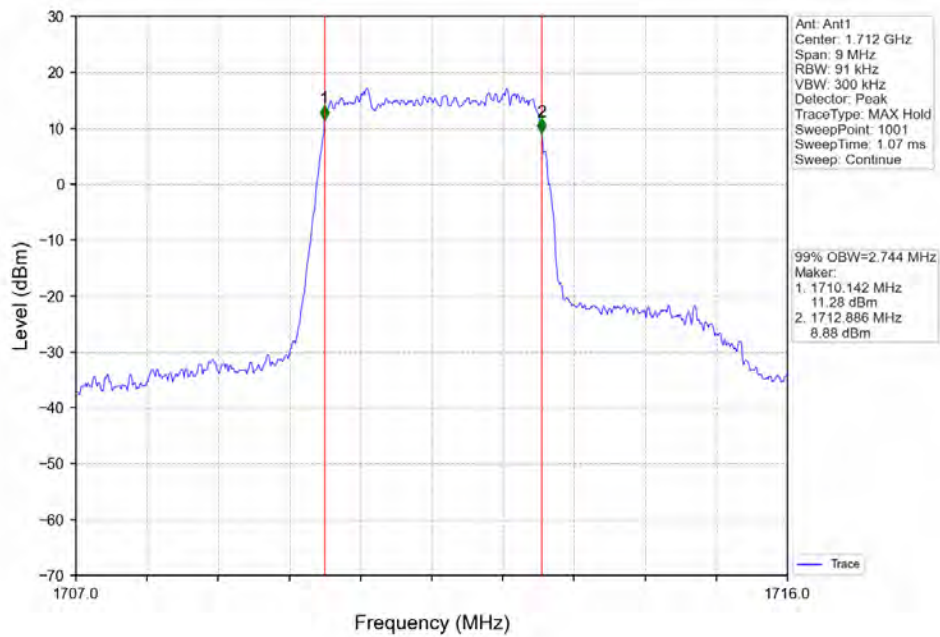
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Band 4 3MHz 64QAM LCH 1711.5MHz RB 15 0 NTN



Band 4 3MHz 64QAM MCH 1732.5MHz RB 15 0 NTN

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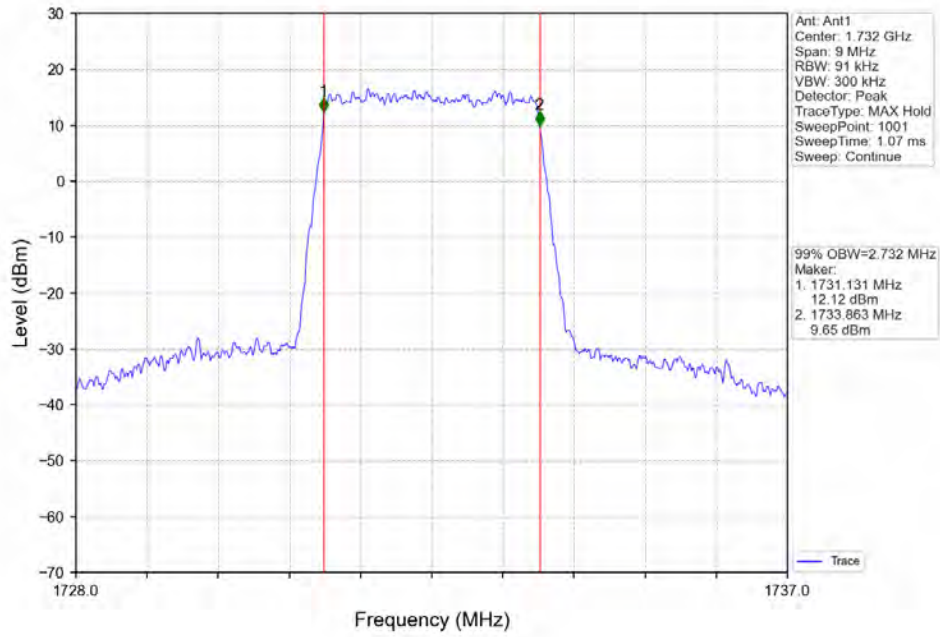
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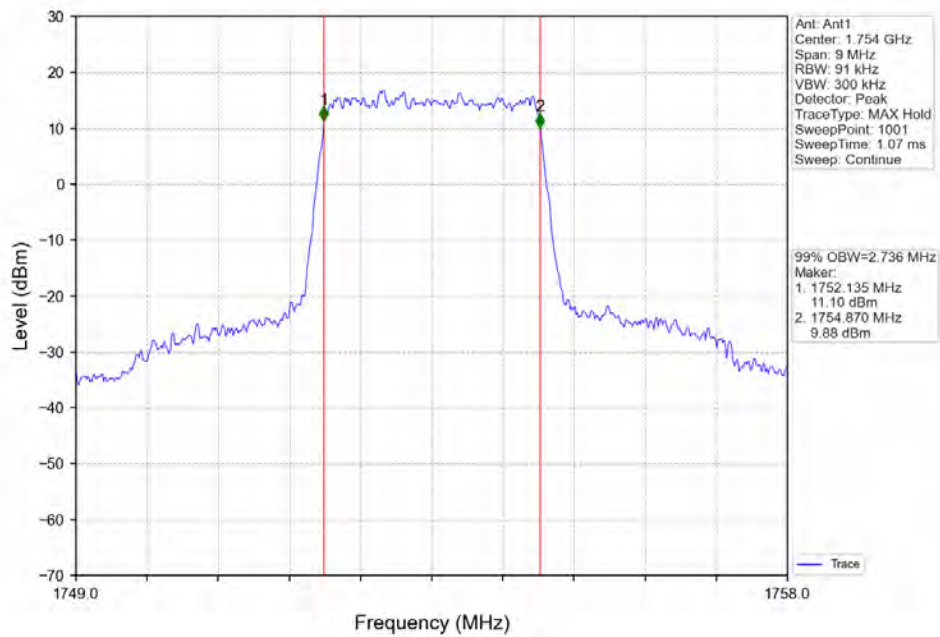
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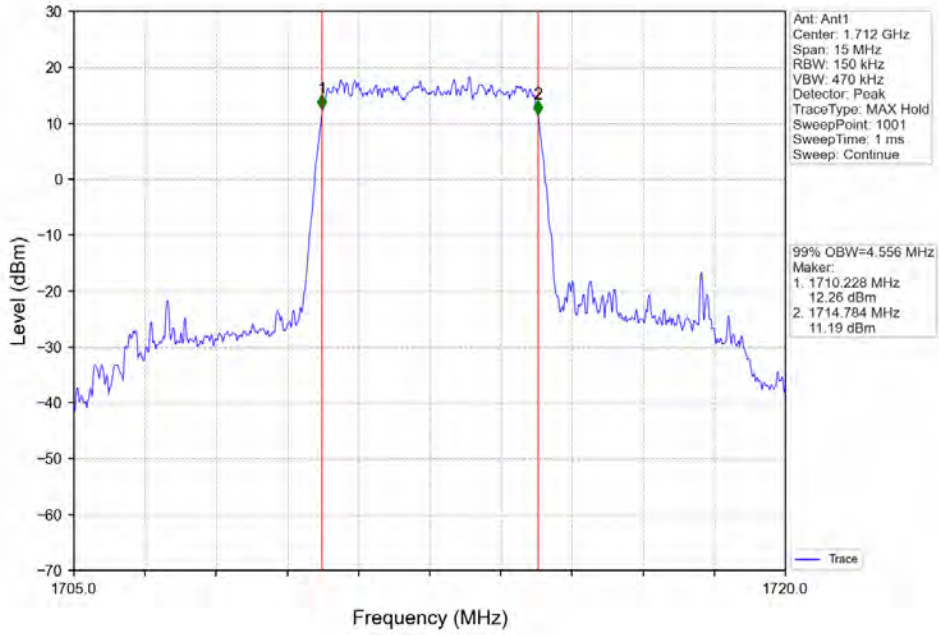


Band 4 3MHz 64QAM HCH 1753.5MHz RB 15\_0 NTN

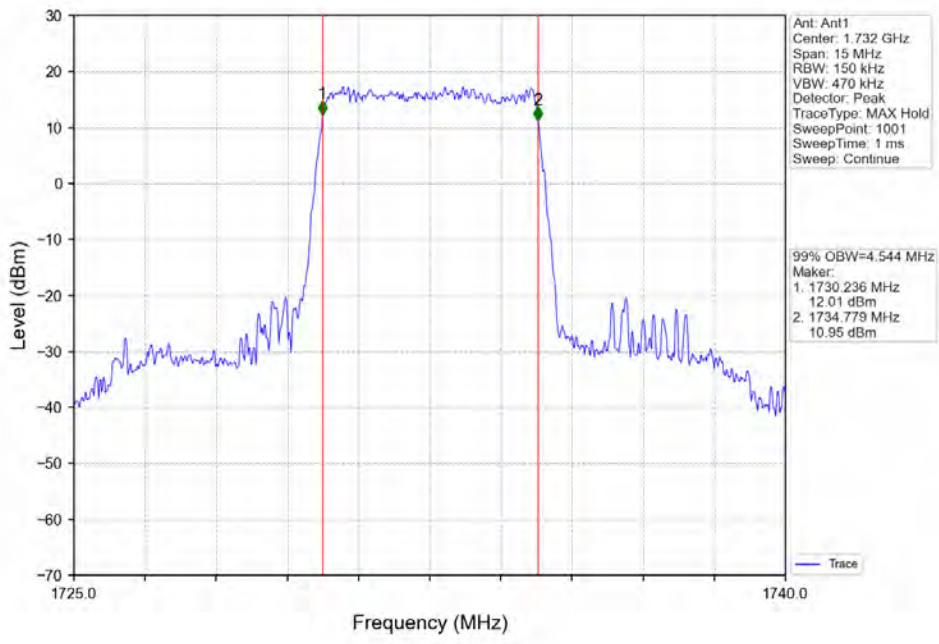




Band 4 5MHz QPSK LCH 174.0.5MHz RB 25 0 NTNV

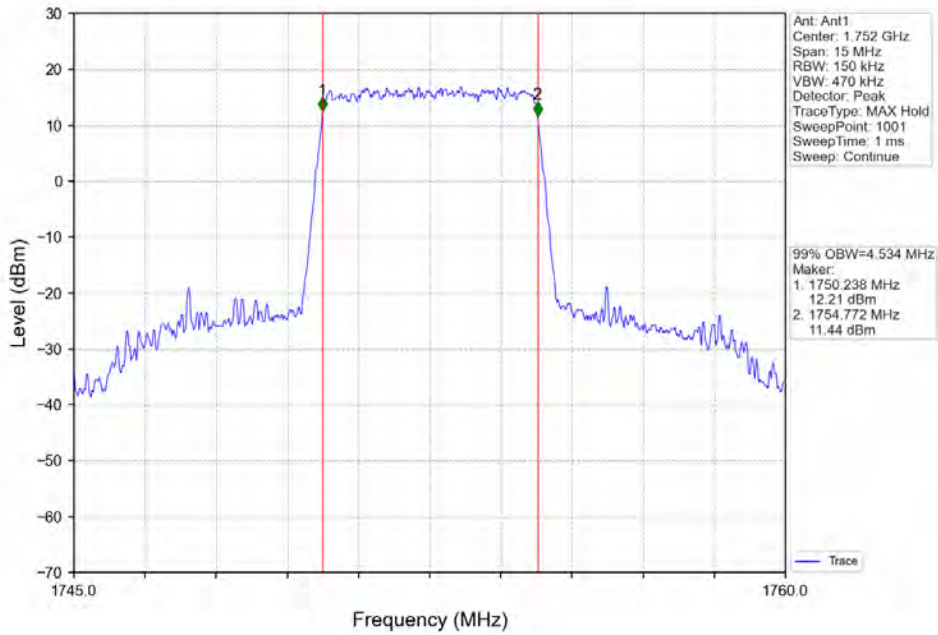


Band 4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV

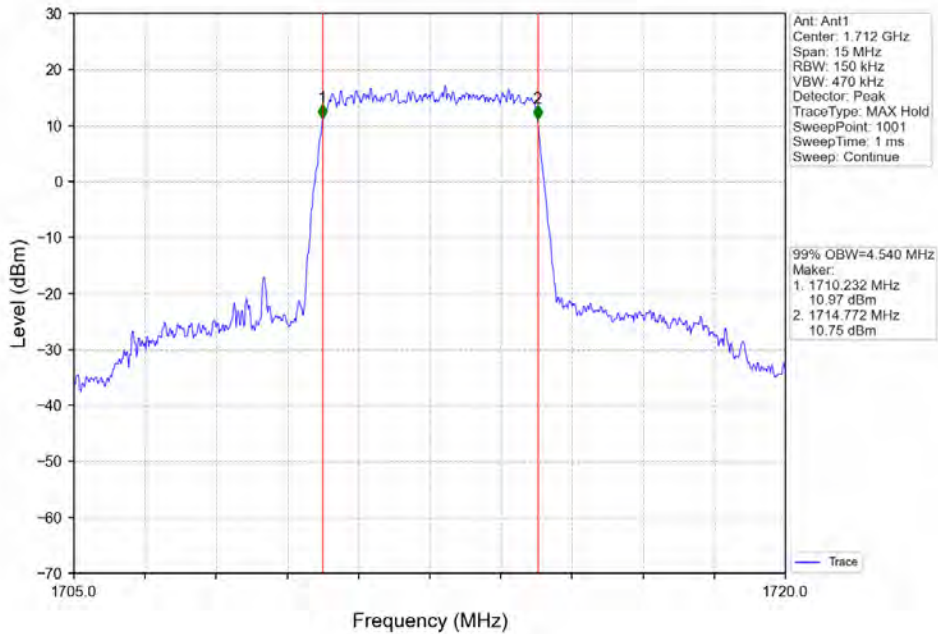




**Band 4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTVN**



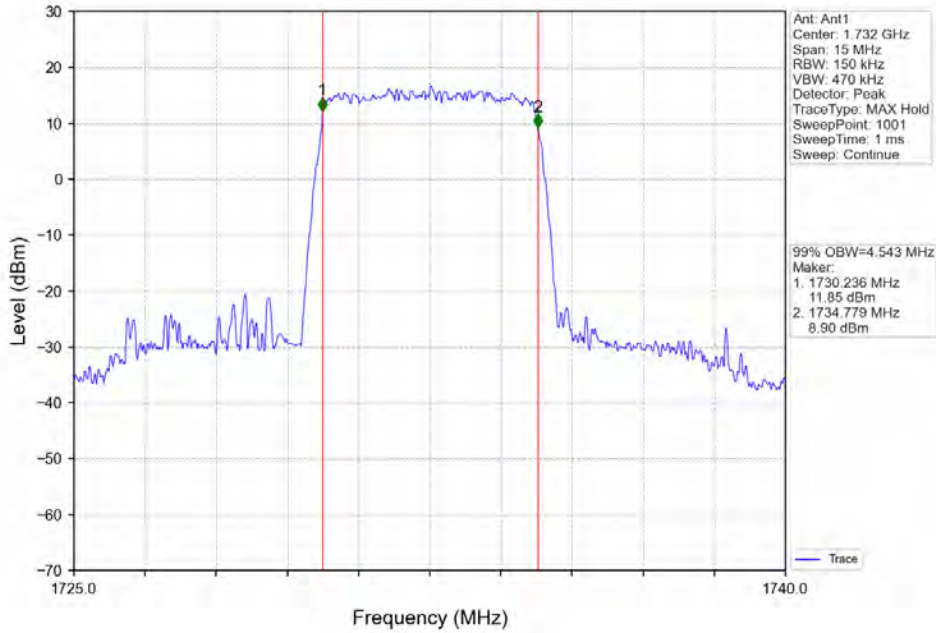
**Band 4 5MHz 16QAM LCH 174.0.5MHz RB 25 0 NTVN**



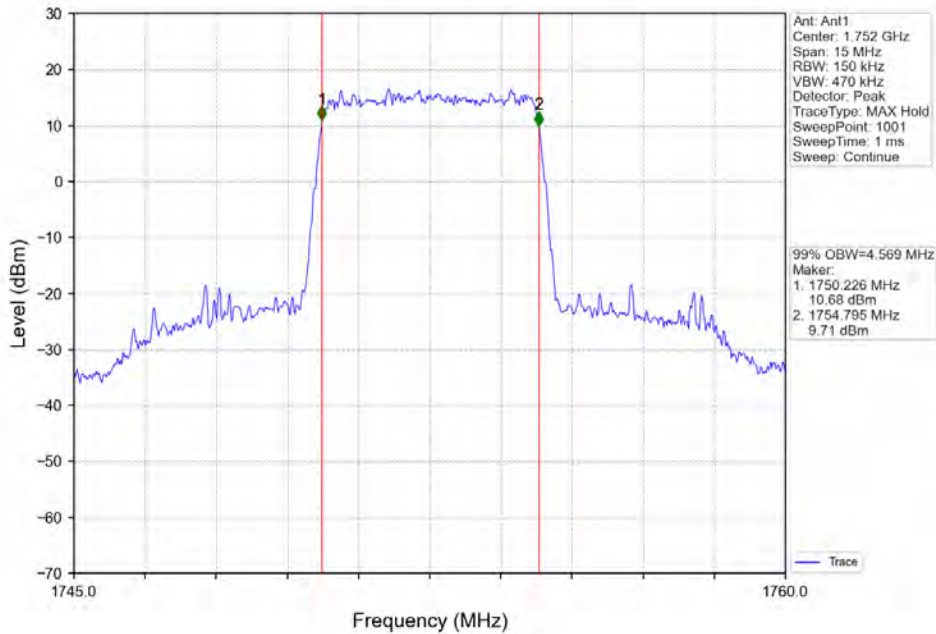




Band 4 5MHz 16QAM MCH 1732.5MHz RB 25\_0 NTN



Band 4 5MHz 16QAM HCH 1752.5MHz RB 25\_0 NTN



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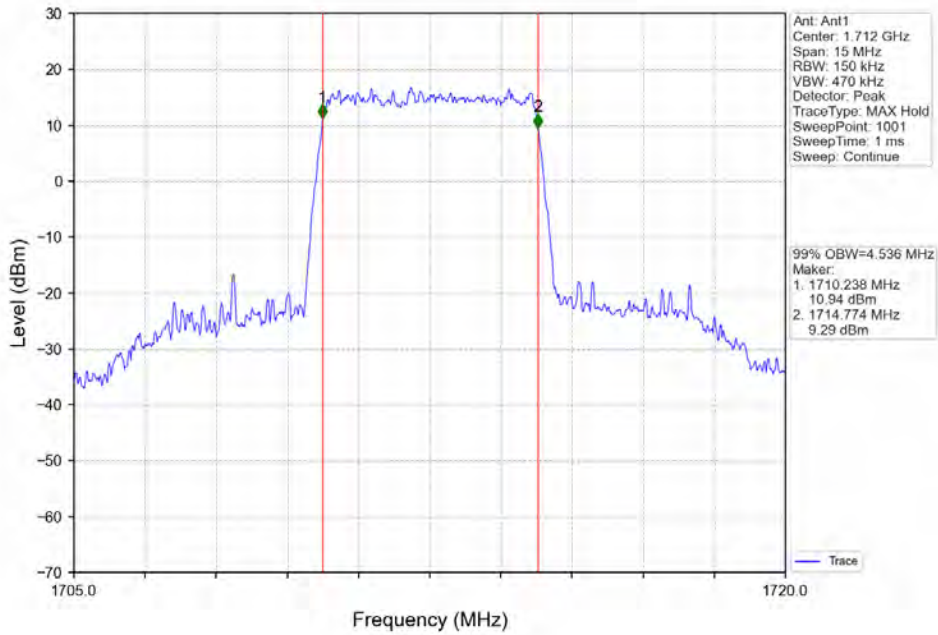
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

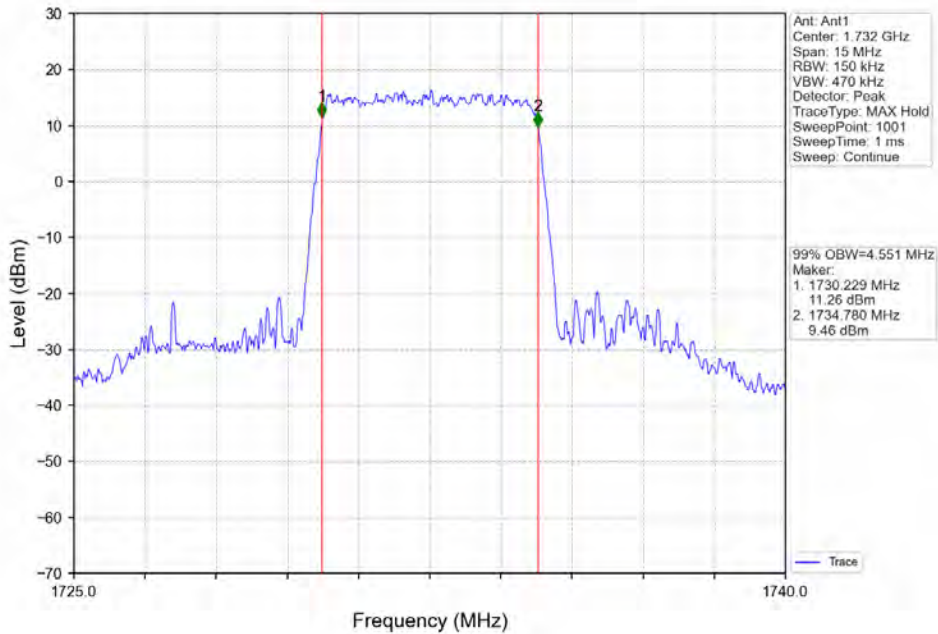
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Band 4 5MHz 64QAM LCH 174.0.5MHz RB 25 0 NTN



Band 4 5MHz 64QAM MCH 1732.5MHz RB 25 0 NTN

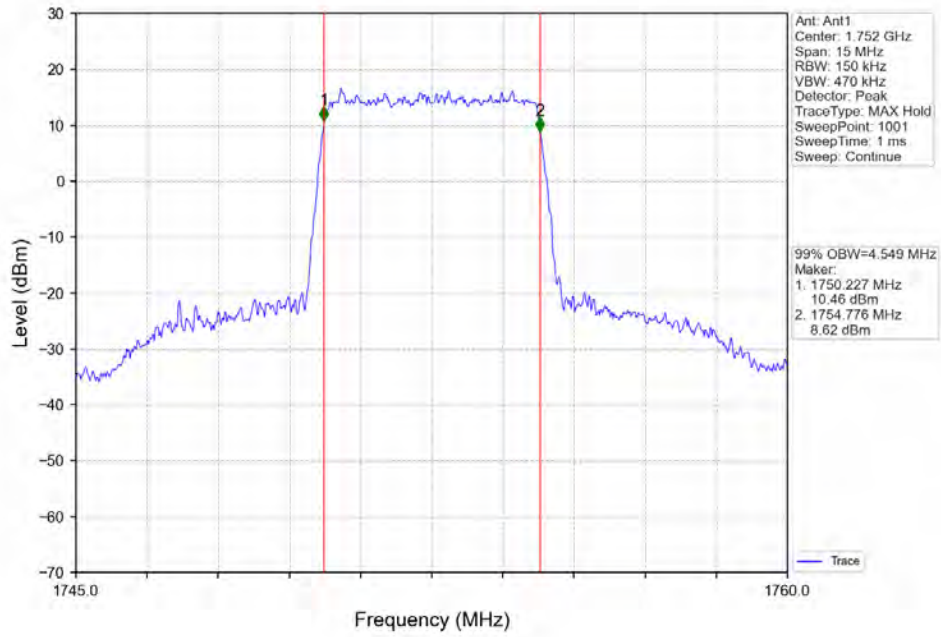




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**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

Band 4 5MHz 64QAM HCH 1752.5MHz RB 25\_0 NTN



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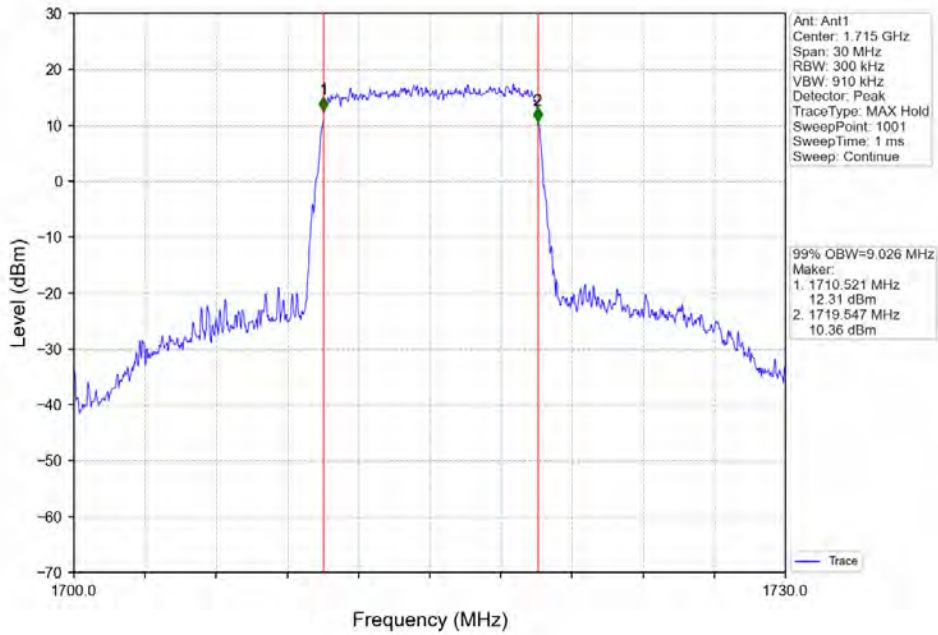
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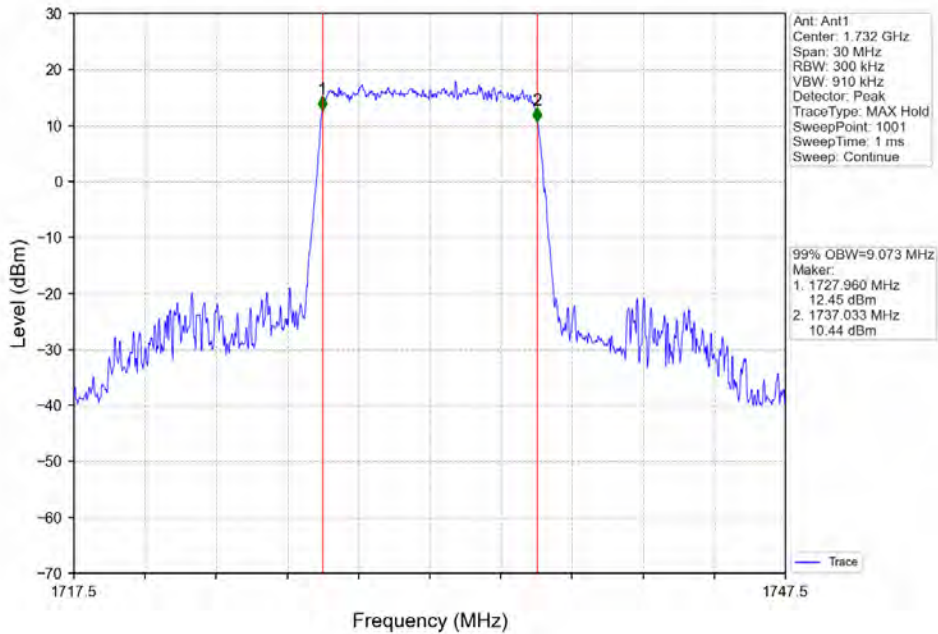
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Band 4 10MHz QPSK LCH 1715MHz RB 50 0 NTN

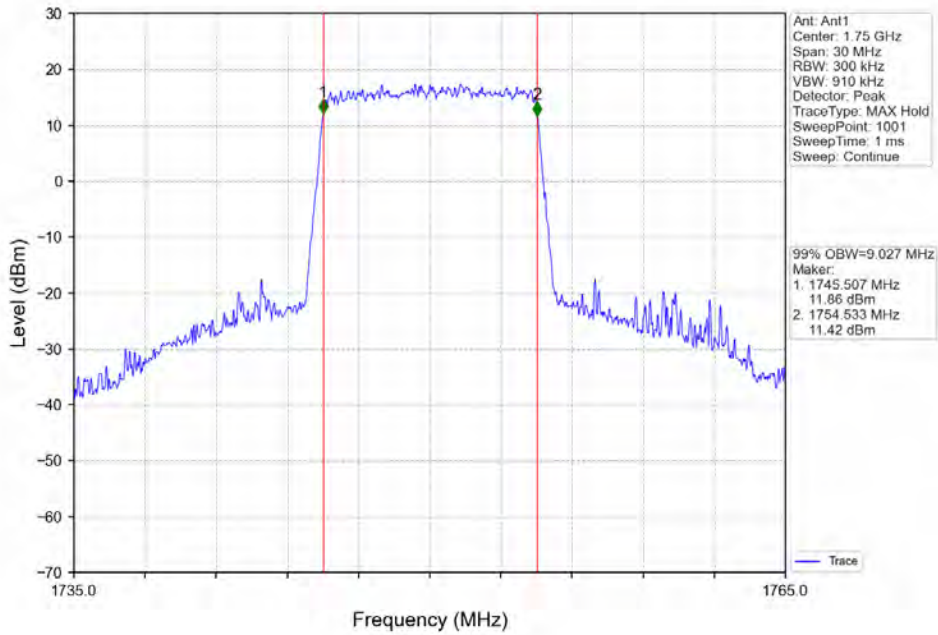


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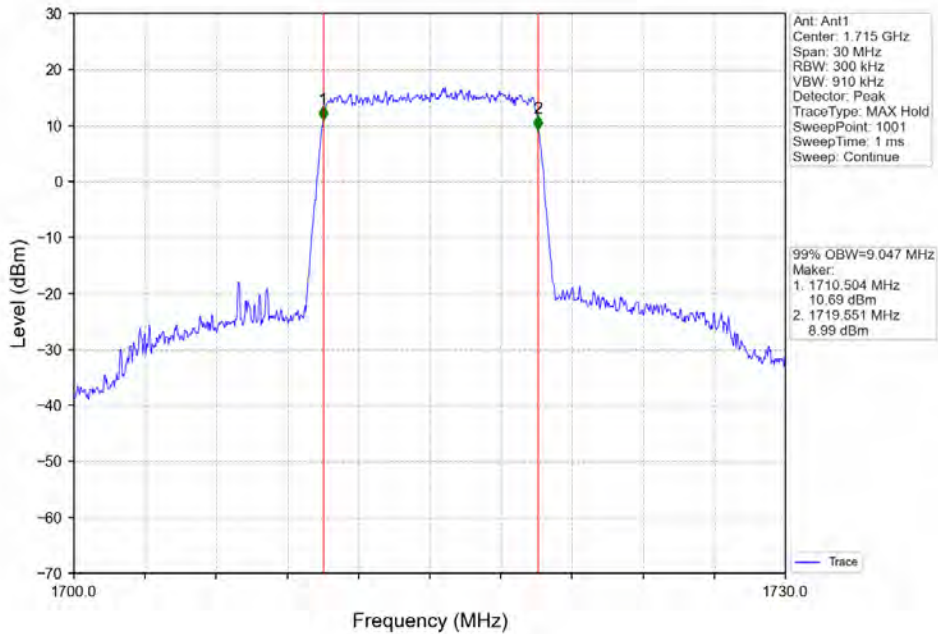




Band 4 10MHz QPSK HCH 1750MHz RB 50 0 NTV



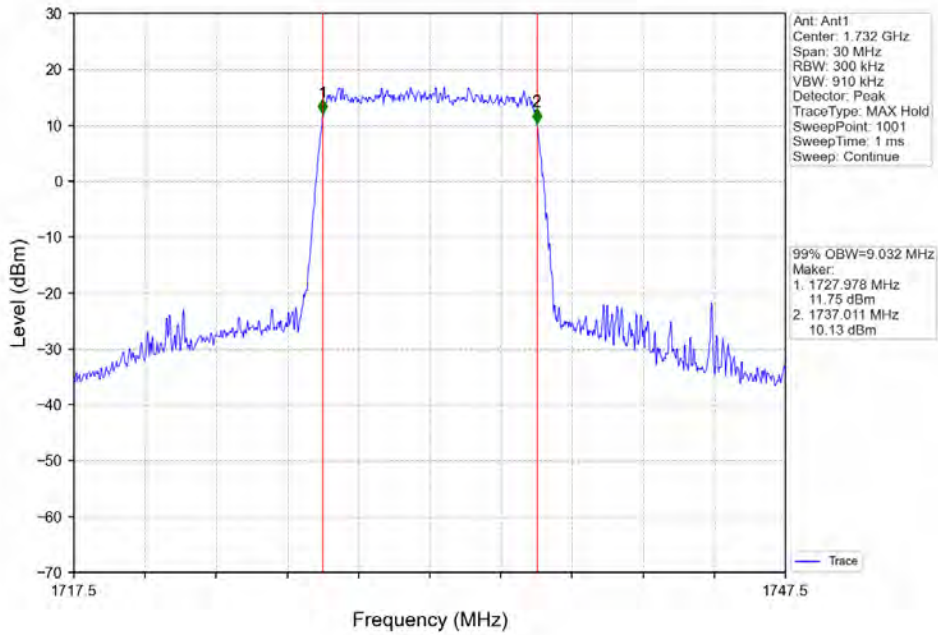
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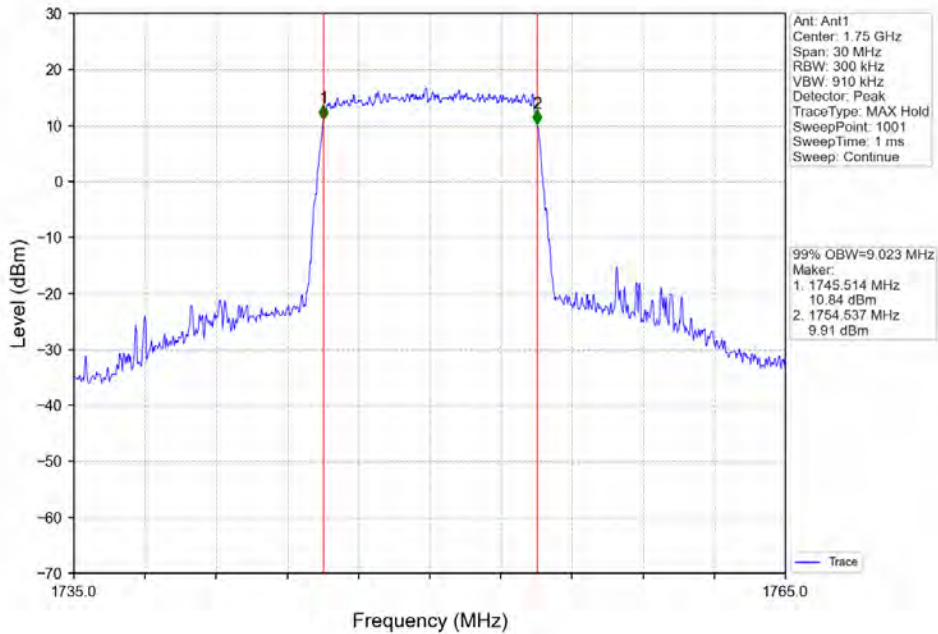




Band 4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTV



Band 4 10MHz 16QAM HCH 1750MHz RB 50 0 NTV



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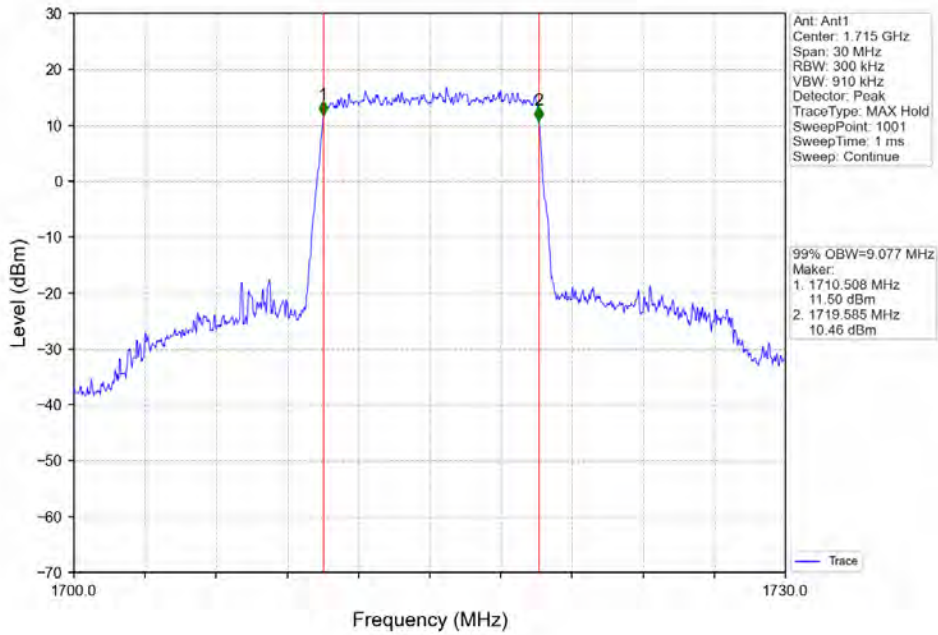
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Fax: +86 755 8869 6577

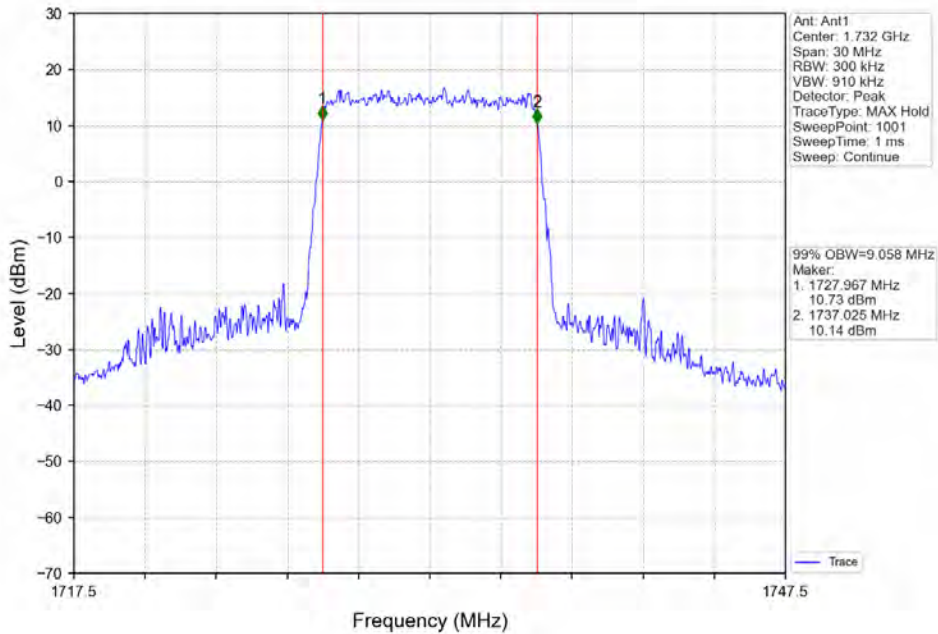
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Band 4 10MHz 64QAM LCH 1715MHz RB 50 0 NTNV



Band 4 10MHz 64QAM MCH 1732.5MHz RB 50 0 NTNV



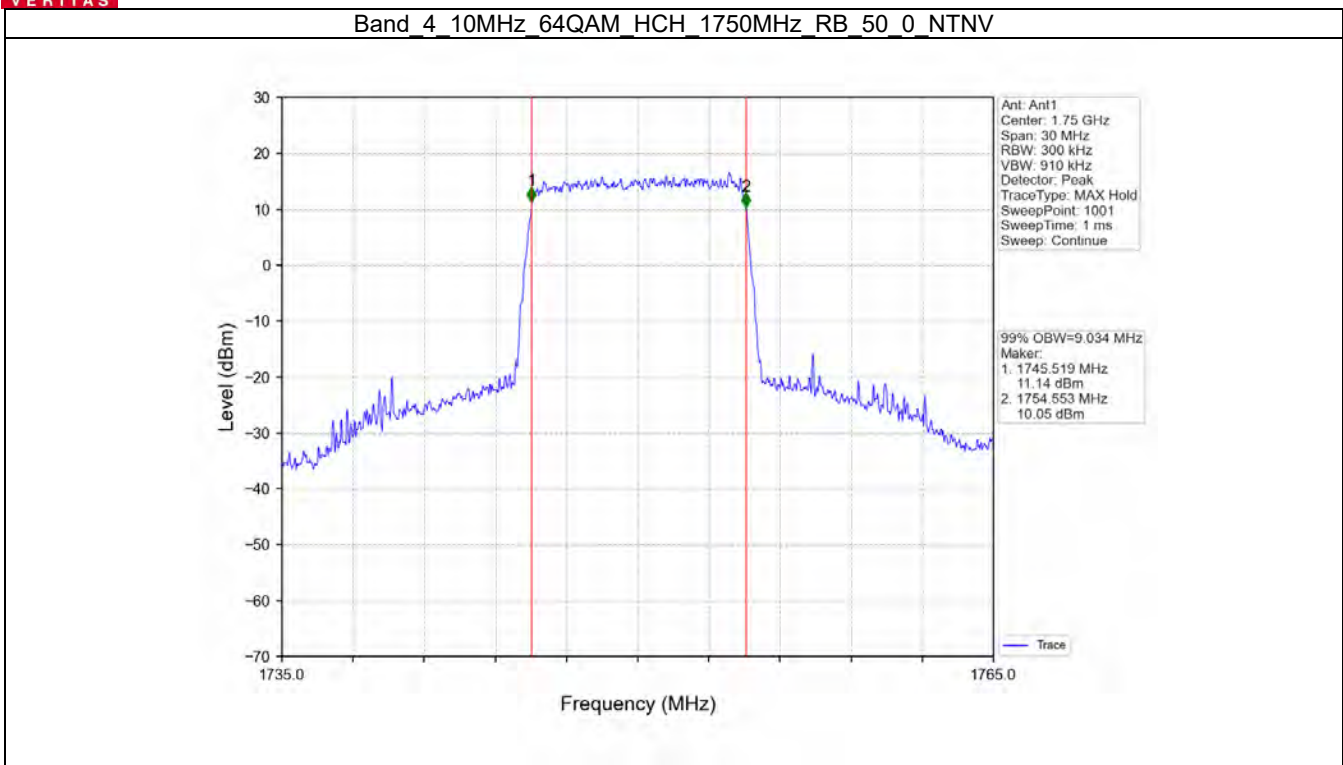
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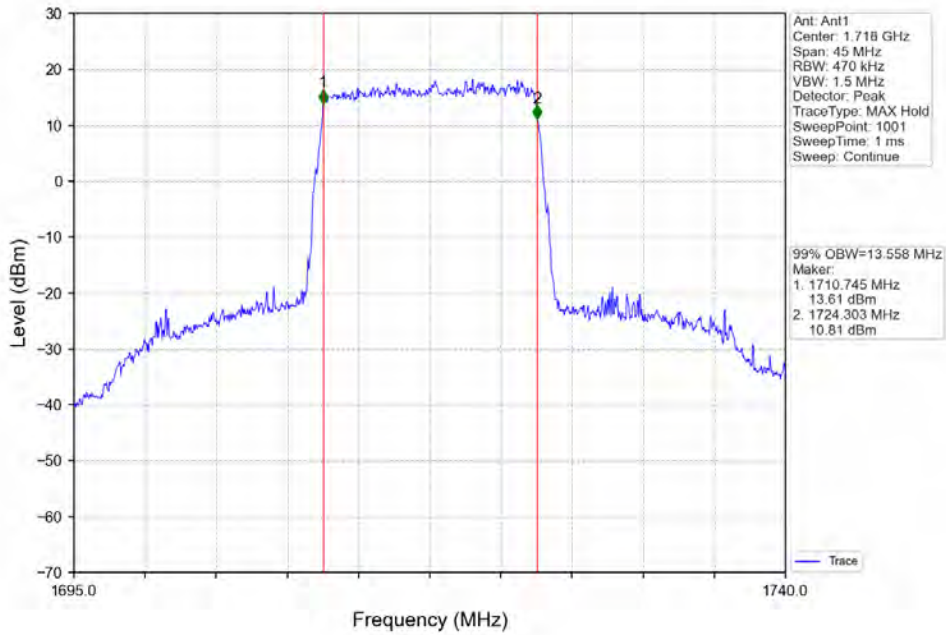
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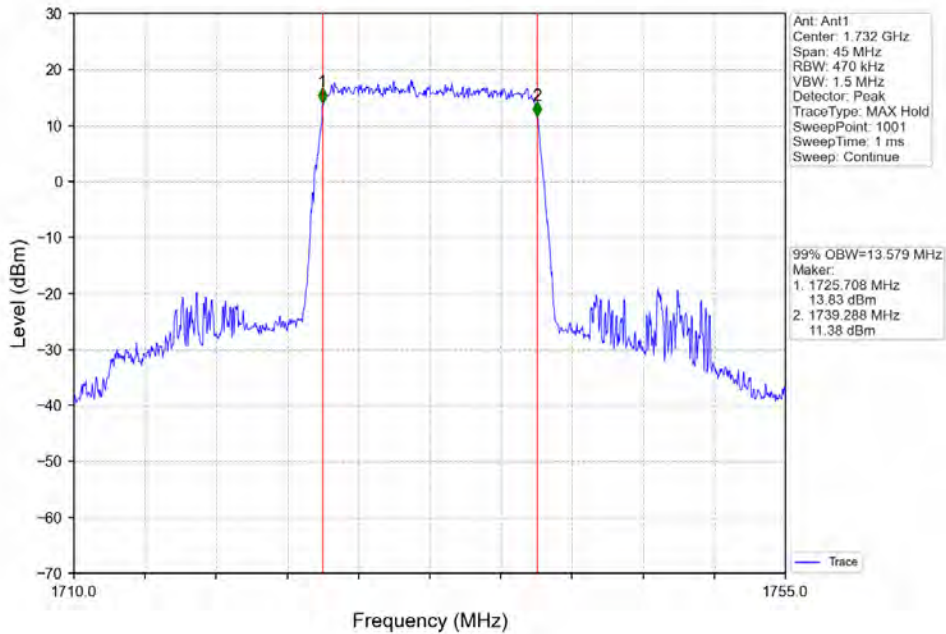




**Band 4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTN**



**Band 4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTN**



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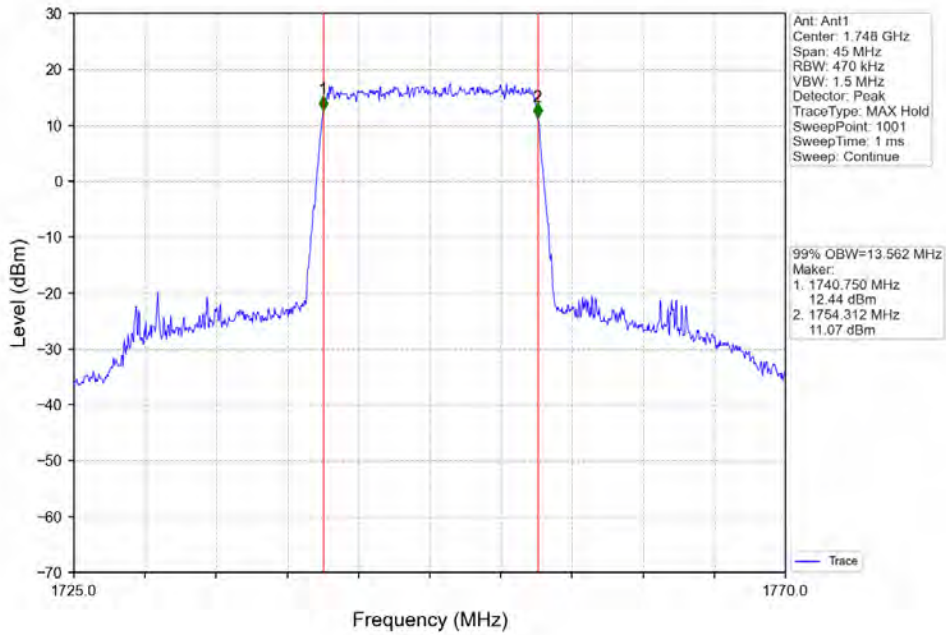
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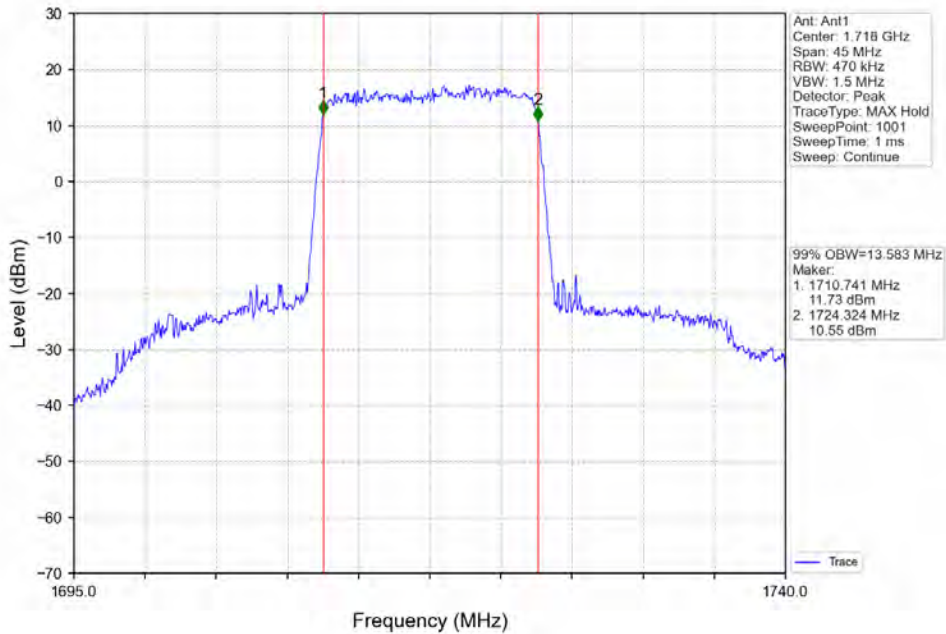
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Band 4 15MHz QPSK HCH 1747.5MHz RB 75\_0 NTN



Band 4 15MHz 16QAM LCH 1717.5MHz RB 75\_0 NTN

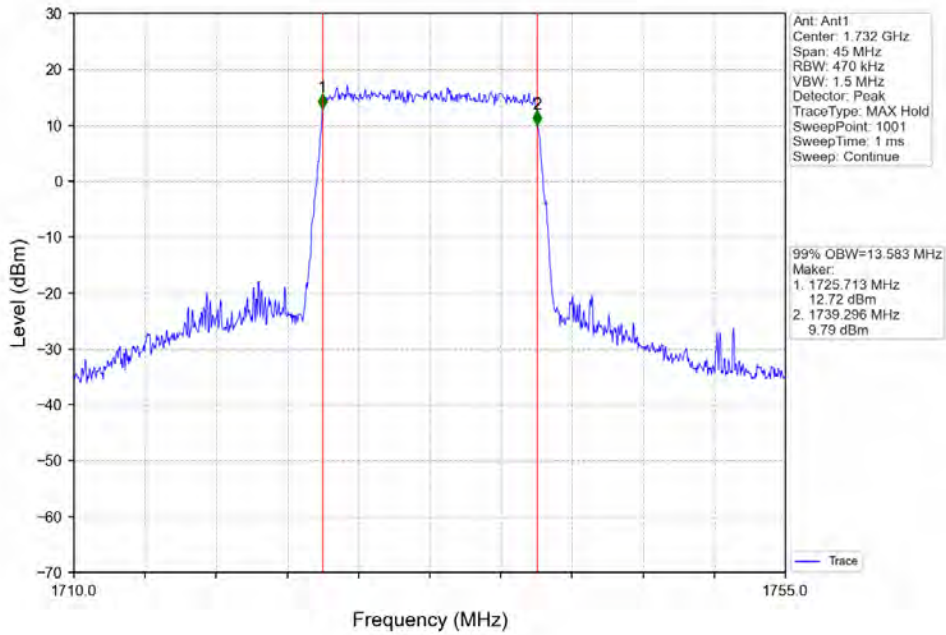




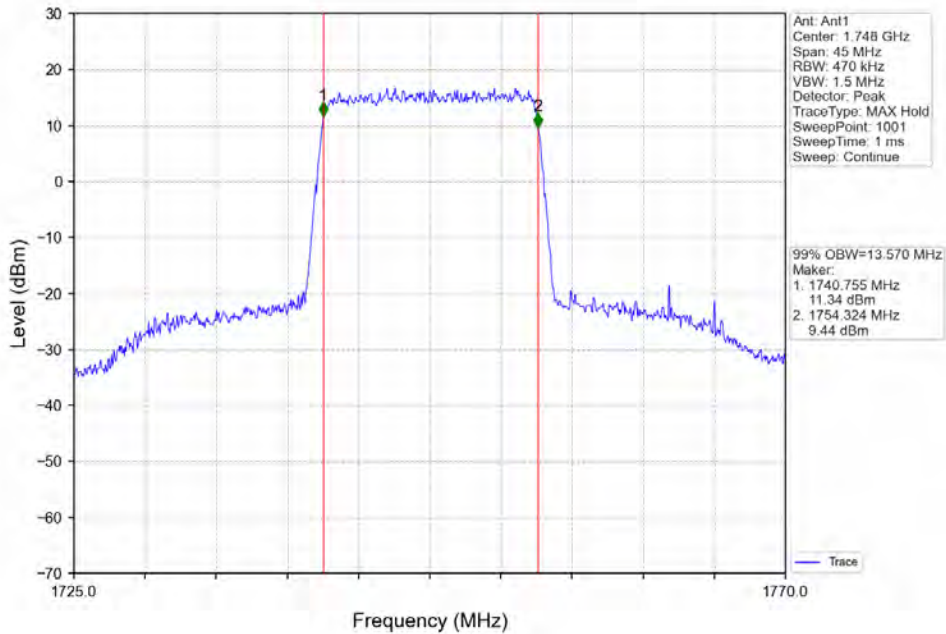
**BUREAU**  
**VERITAS**

**Test Report No.: W7L-P20210616-3RF03**

**Band 4 15MHz 16QAM MCH 1732.5MHz RB 75 0 NTVN**



**Band 4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTVN**



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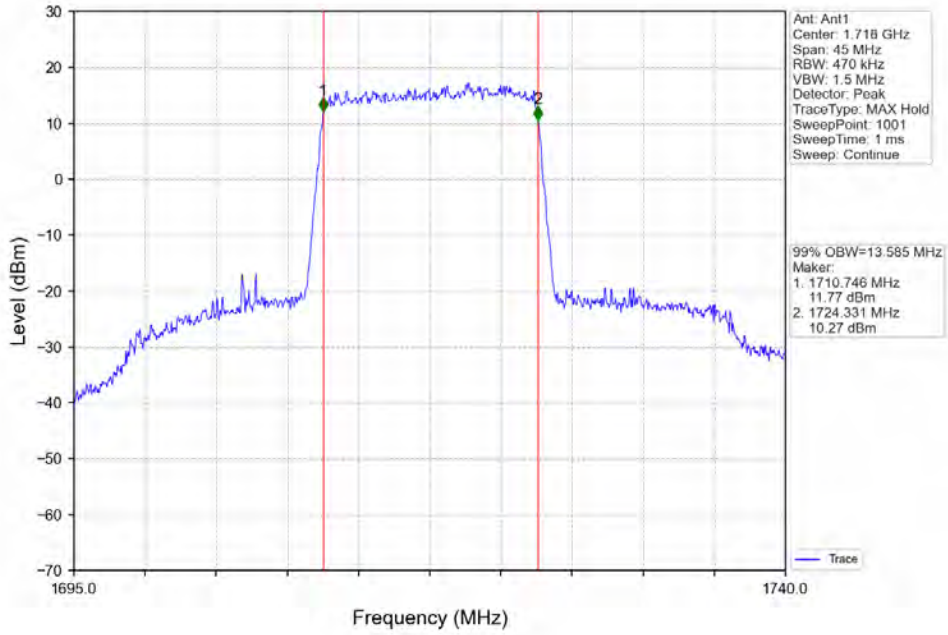
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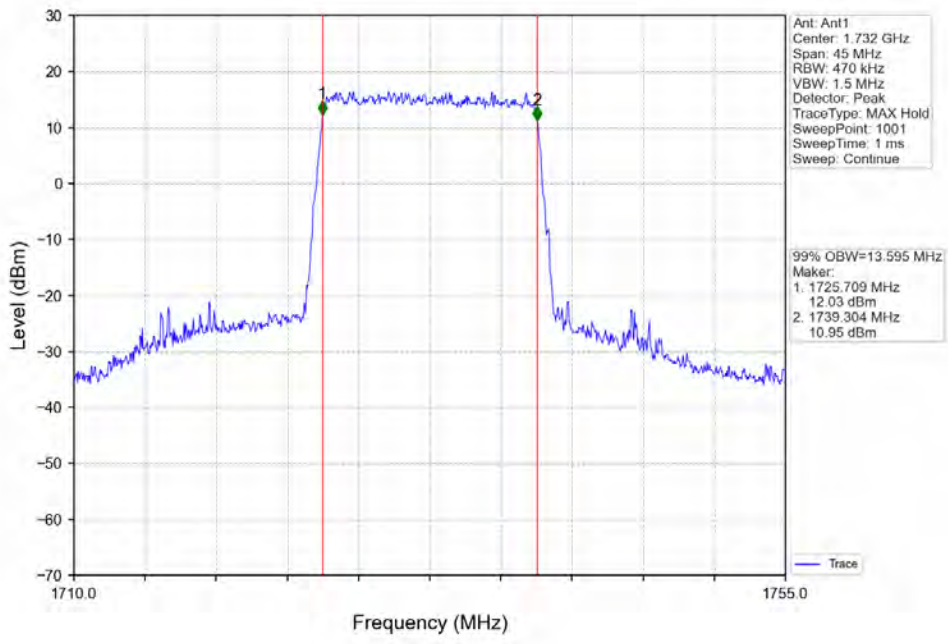
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**Band 4 15MHz 64QAM LCH 1717.5MHz RB 75 0 NTV**



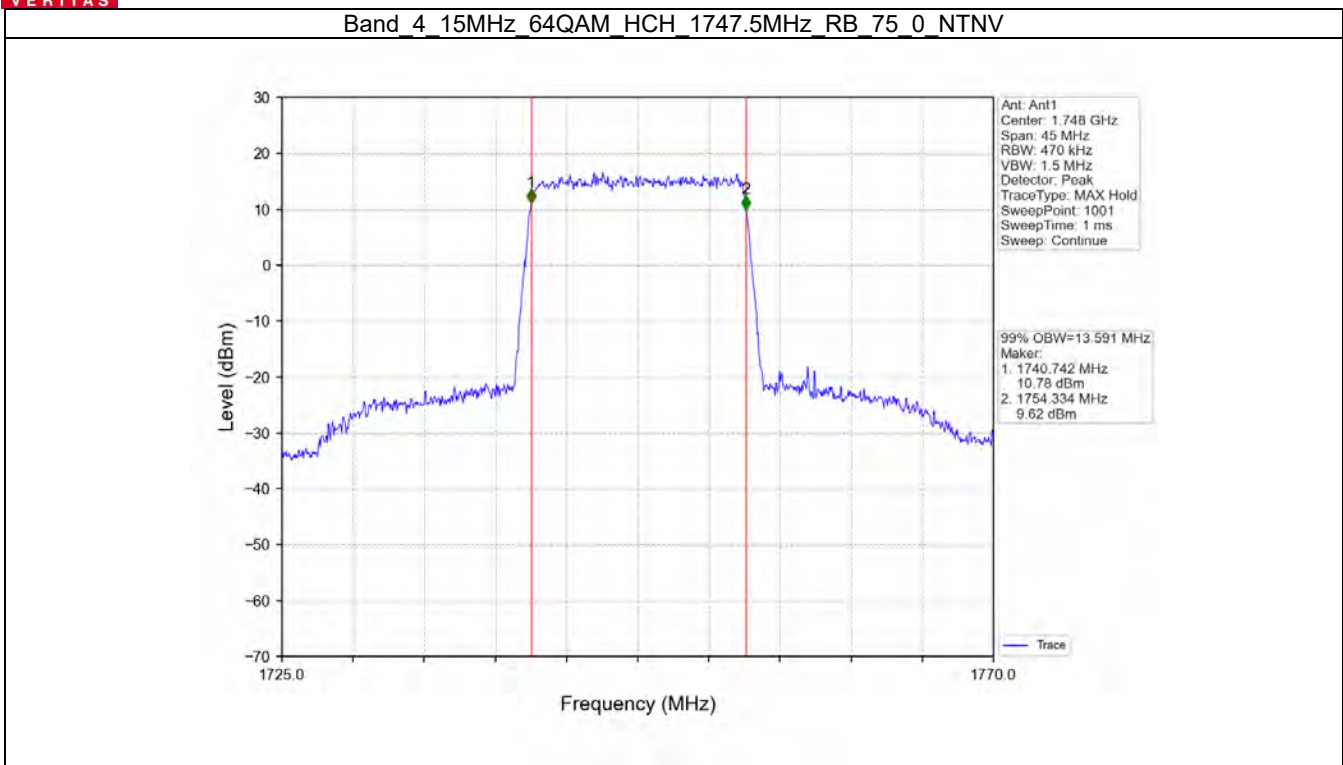
**Band 4 15MHz 64QAM MCH 1732.5MHz RB 75 0 NTV**



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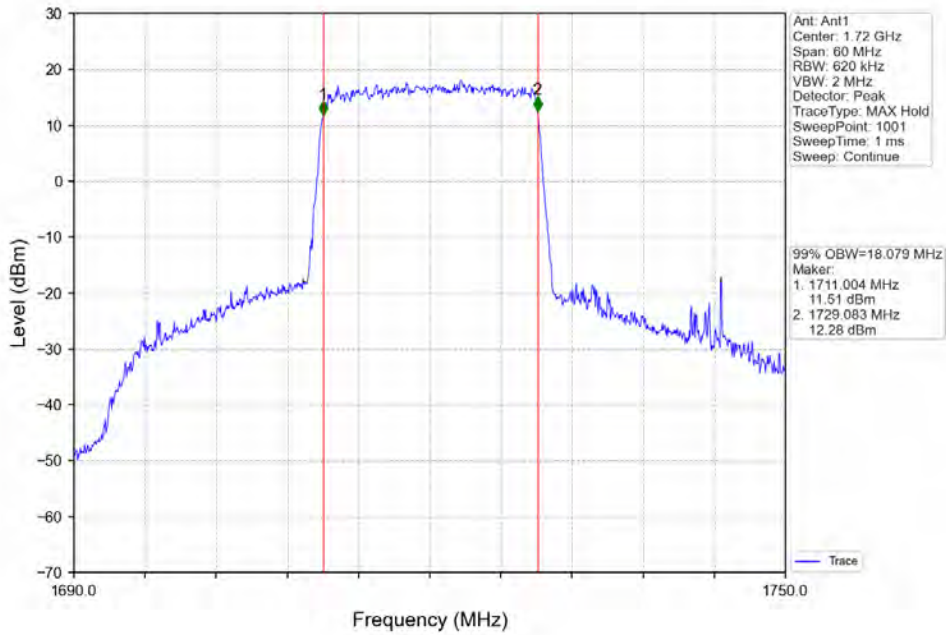
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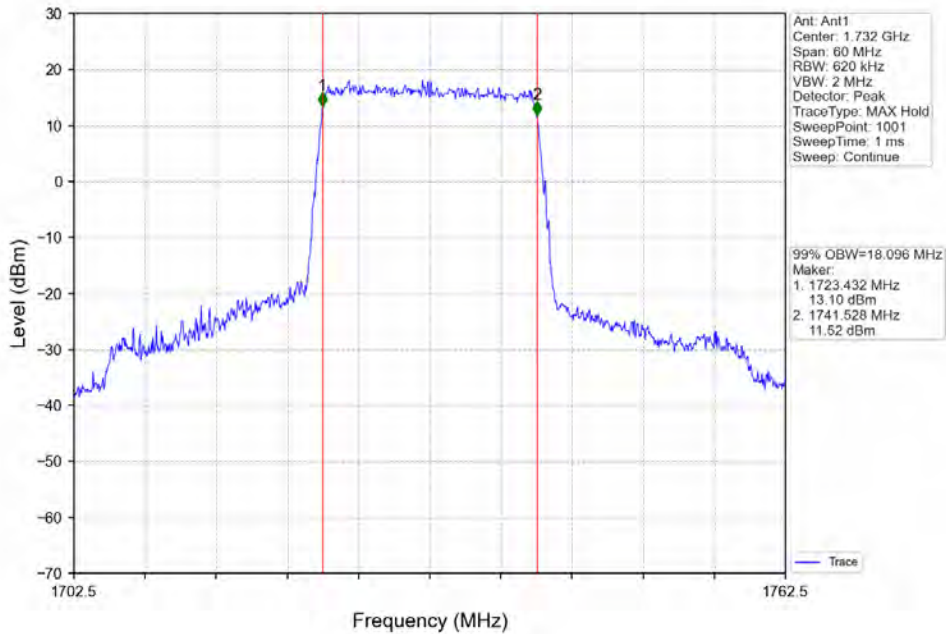




**Band 4 20MHz QPSK LCH 1720MHz RB 100 0 NTVN**

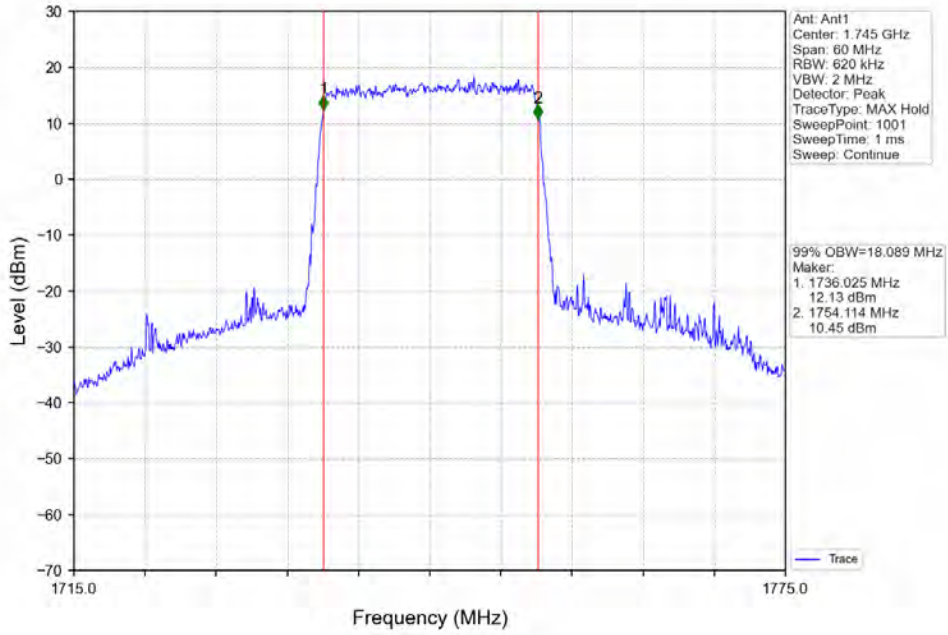


**Band 4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTVN**

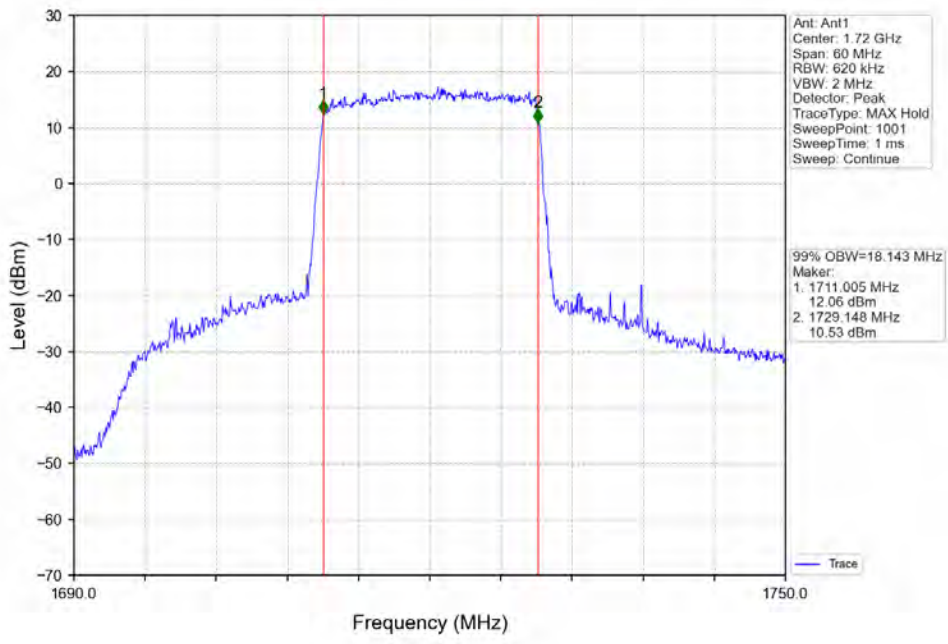




Band 4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV

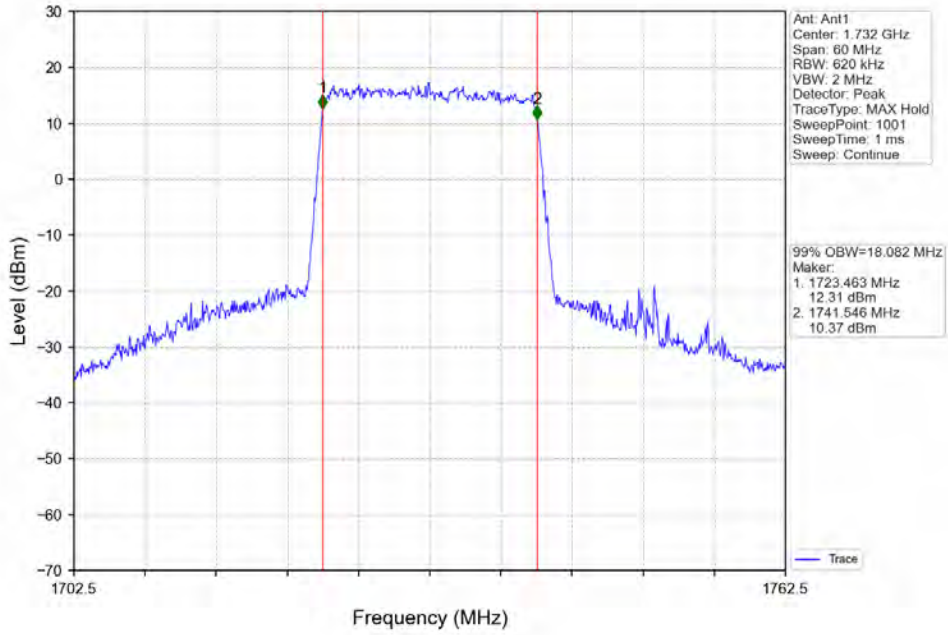


Band 4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV

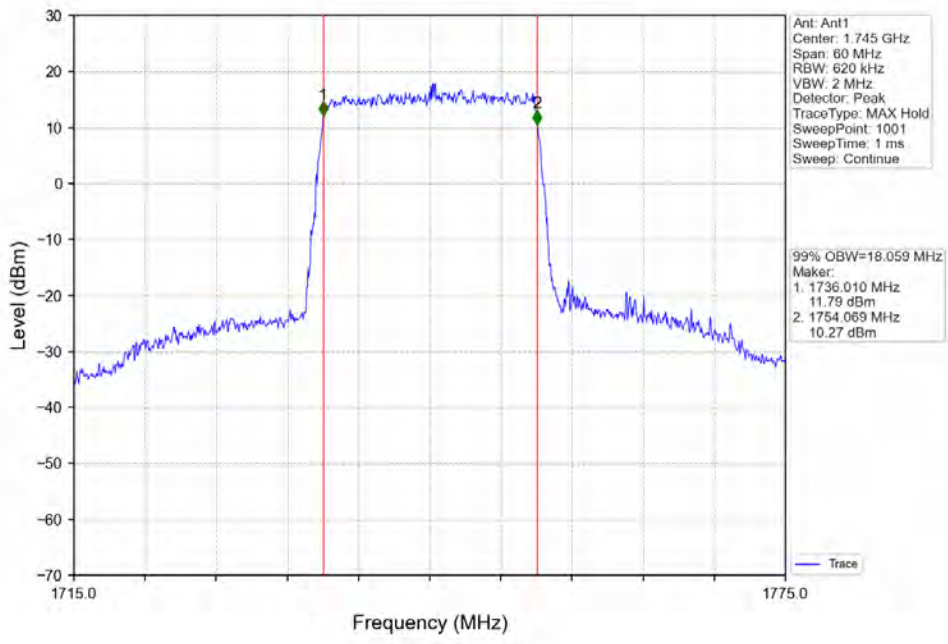




Band 4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTV



Band 4 20MHz 16QAM HCH 1745MHz RB 100 0 NTV



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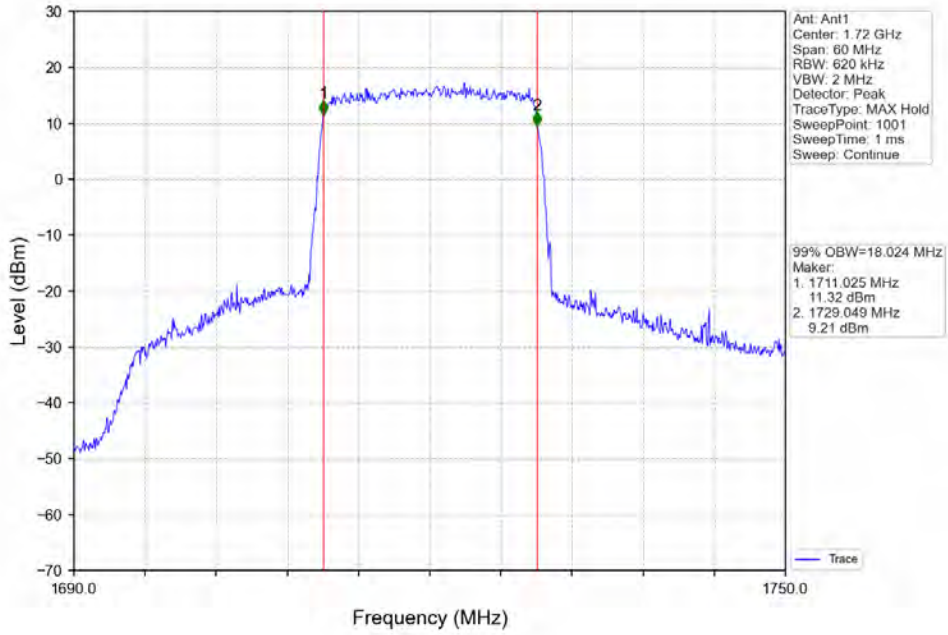
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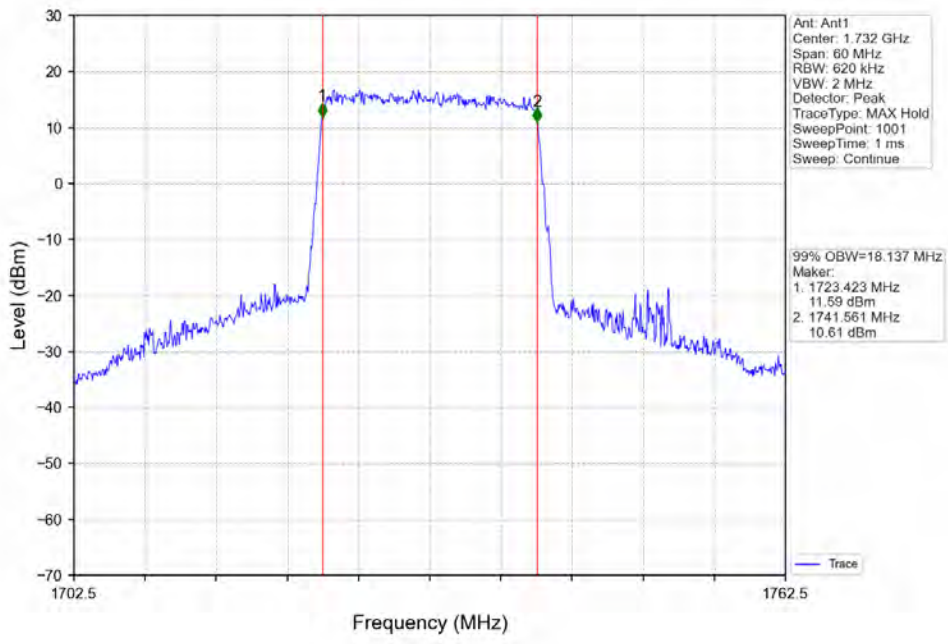




Band 4 20MHz 64QAM LCH 1720MHz RB 100\_0 NTNv



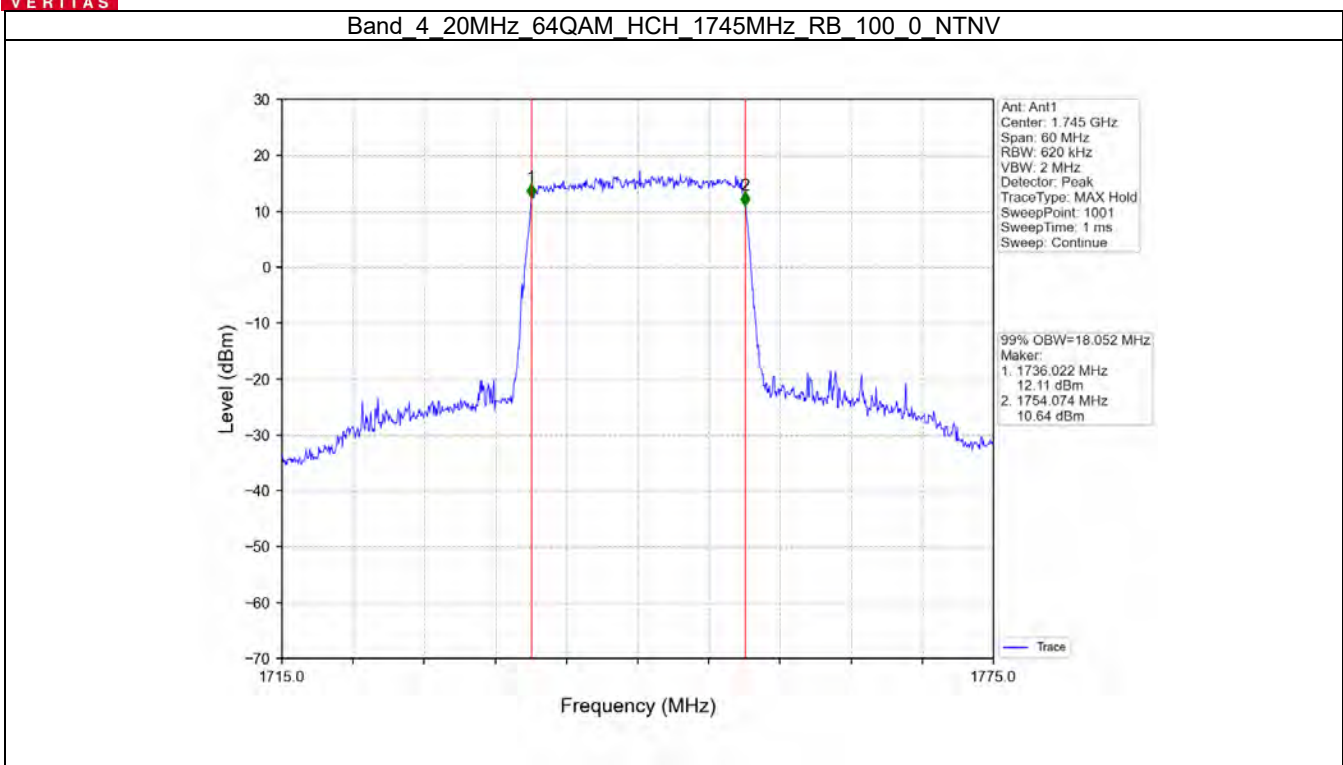
Band 4 20MHz 64QAM MCH 1732.5MHz RB 100\_0 NTNv



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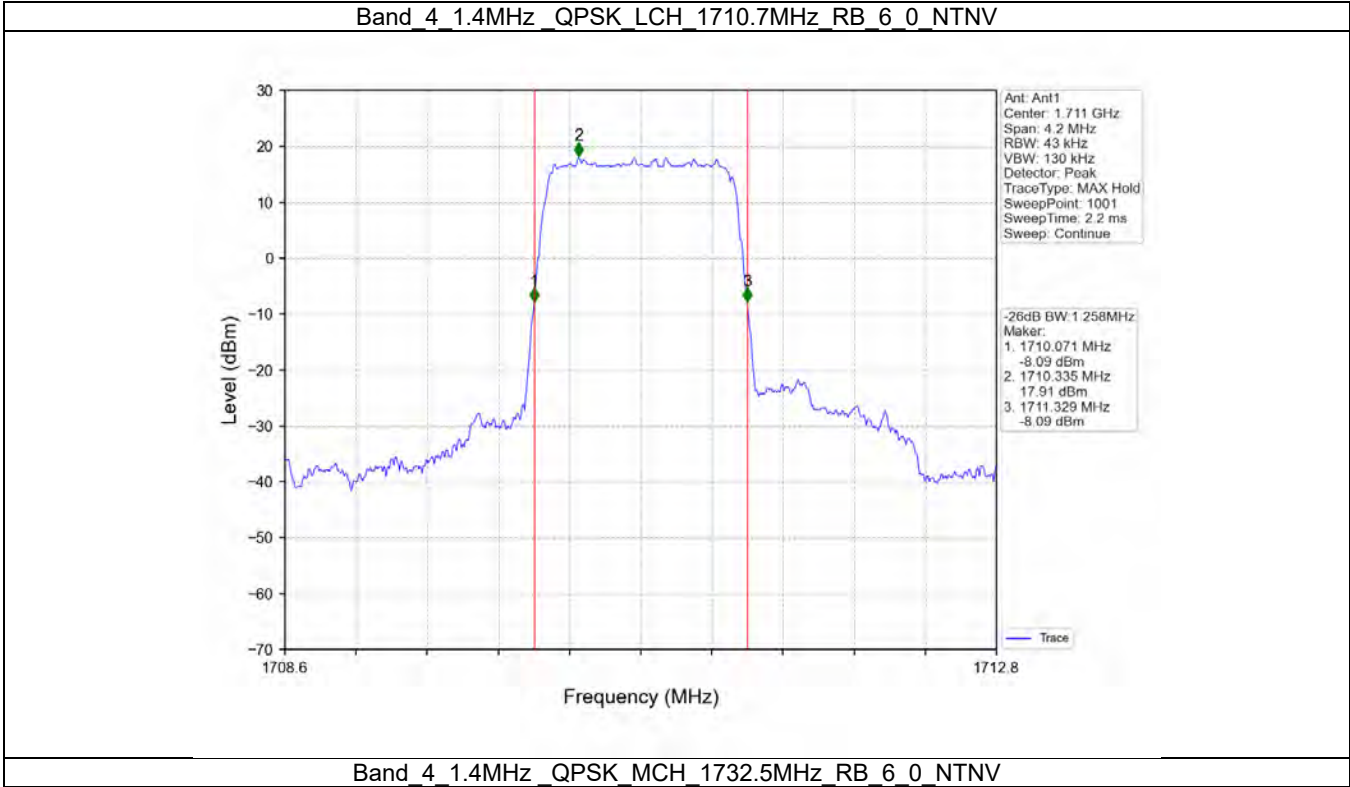
## 2.2 LTE Band 4\_26DB

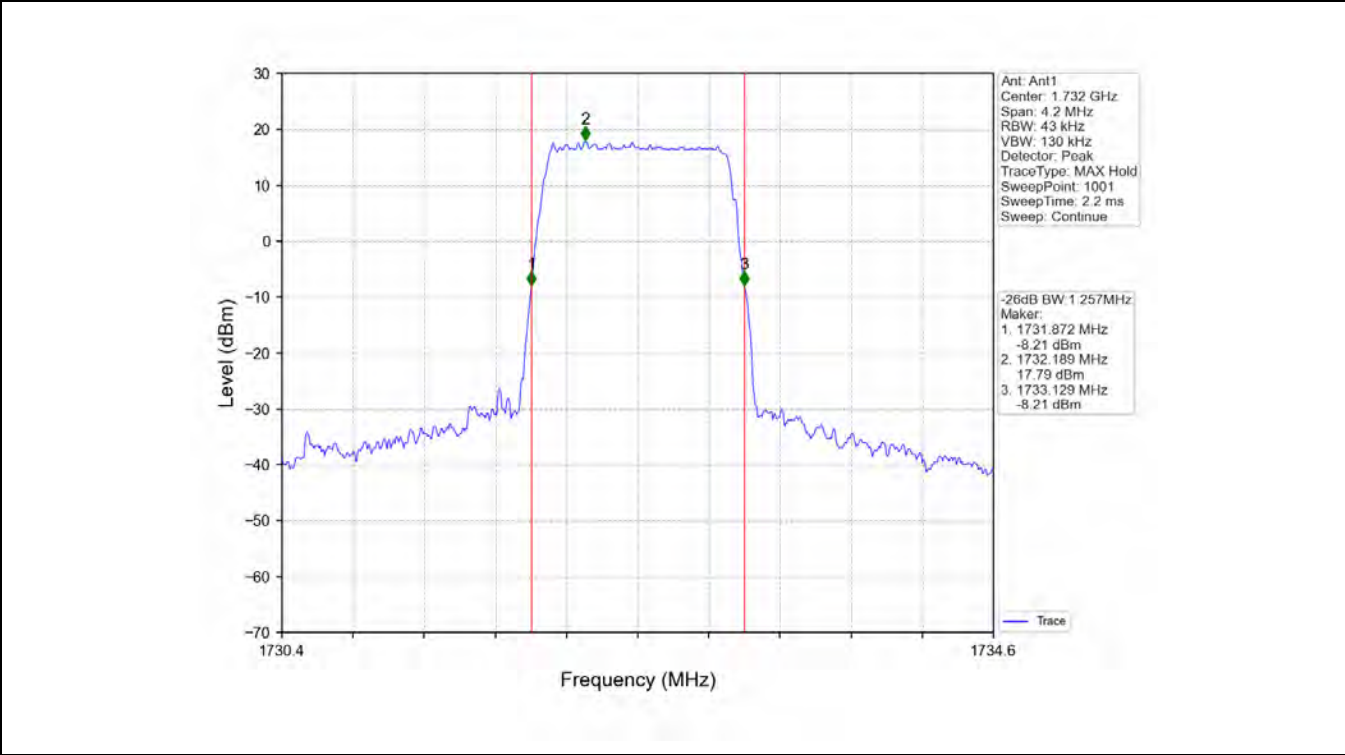
### 2.2.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.258	1.257	1.267	/	Pass
16QAM	6	0	1.266	1.252	1.266	/	Pass
64QAM	6	0	1.267	1.278	1.268	/	Pass
Band: 4 / Bandwidth: 3MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.075	3.069	3.058	/	Pass
16QAM	15	0	3.039	3.088	3.068	/	Pass
64QAM	15	0	3.079	3.084	3.045	/	Pass
Band: 4 / Bandwidth: 5MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.016	5.048	5.048	/	Pass
16QAM	25	0	5.044	5.071	5.048	/	Pass
64QAM	25	0	5.040	5.066	5.046	/	Pass
Band: 4 / Bandwidth: 10MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	10.022	9.942	9.960	/	Pass
16QAM	50	0	9.977	9.961	9.954	/	Pass
64QAM	50	0	9.994	10.000	9.939	/	Pass
Band: 4 / Bandwidth: 15MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	15.000	15.034	14.971	/	Pass
16QAM	75	0	14.904	14.969	14.966	/	Pass
64QAM	75	0	14.903	15.005	14.992	/	Pass
Band: 4 / Bandwidth: 20MHz / NTNV							
Modulation	RB Allocation		26dB Bandwidth (MHz)			Limit (MHz)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	19.777	20.031	19.663	/	Pass
16QAM	100	0	19.756	19.830	19.84.0	/	Pass
64QAM	100	0	19.700	19.896	19.777	/	Pass



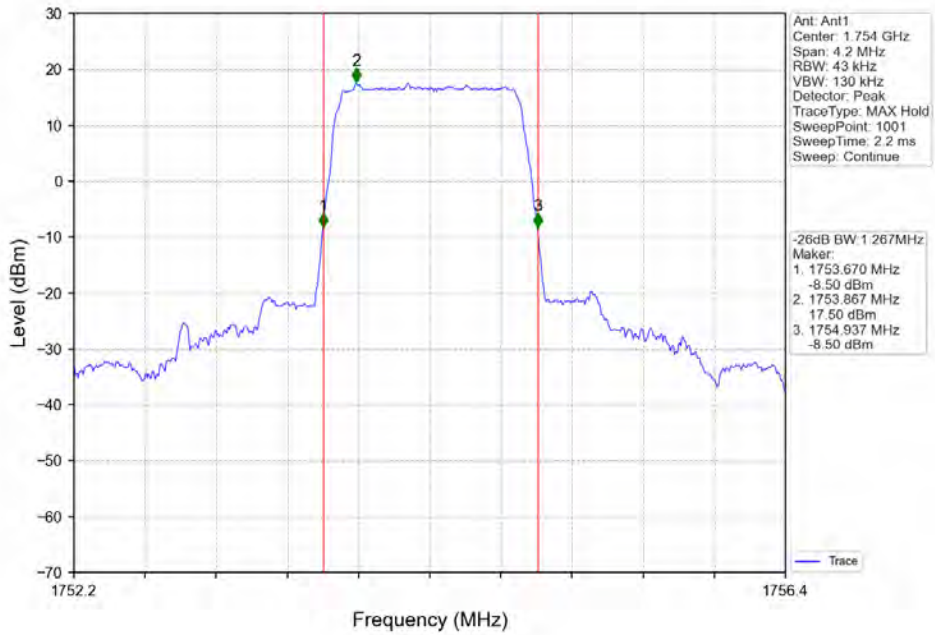
### 2.2.2 Test Graph







Band 4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTN



Band 4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTN

