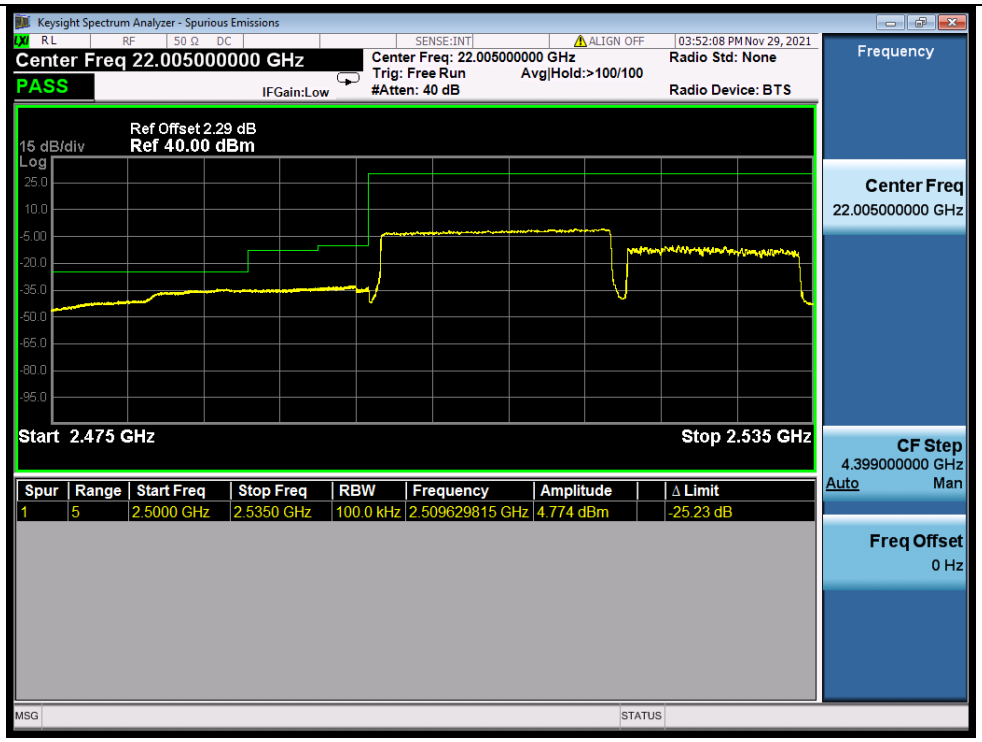
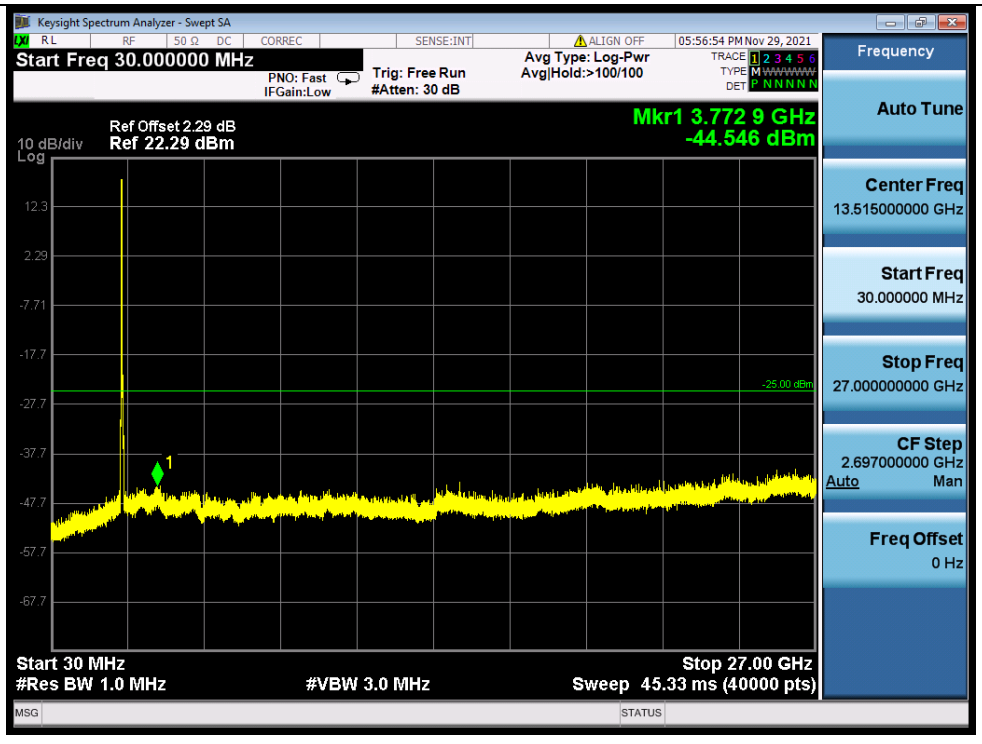
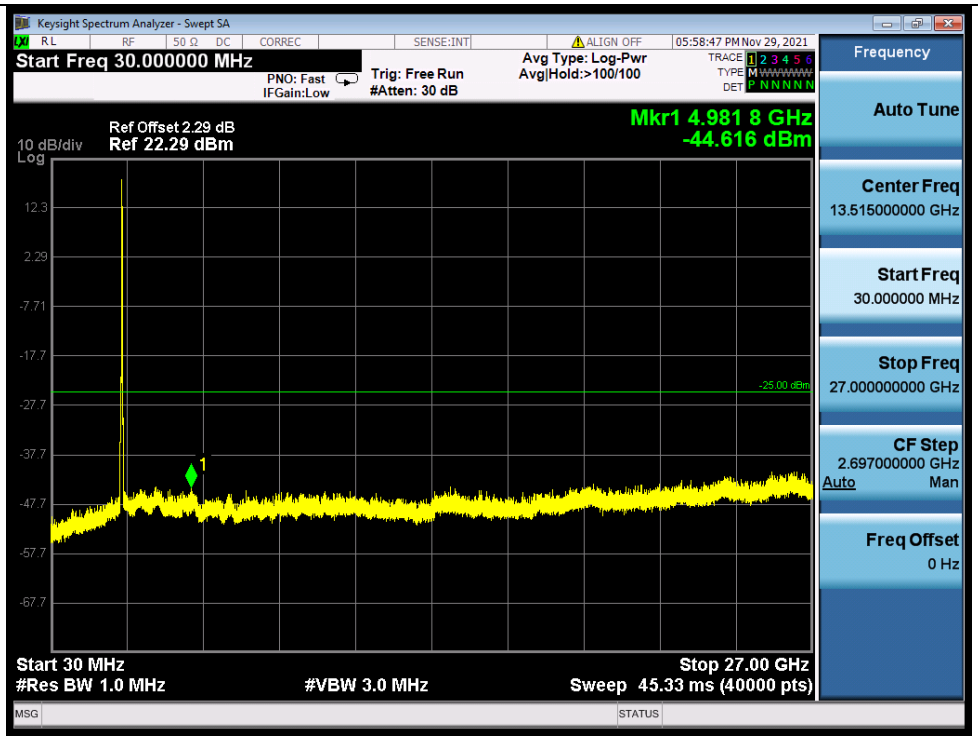


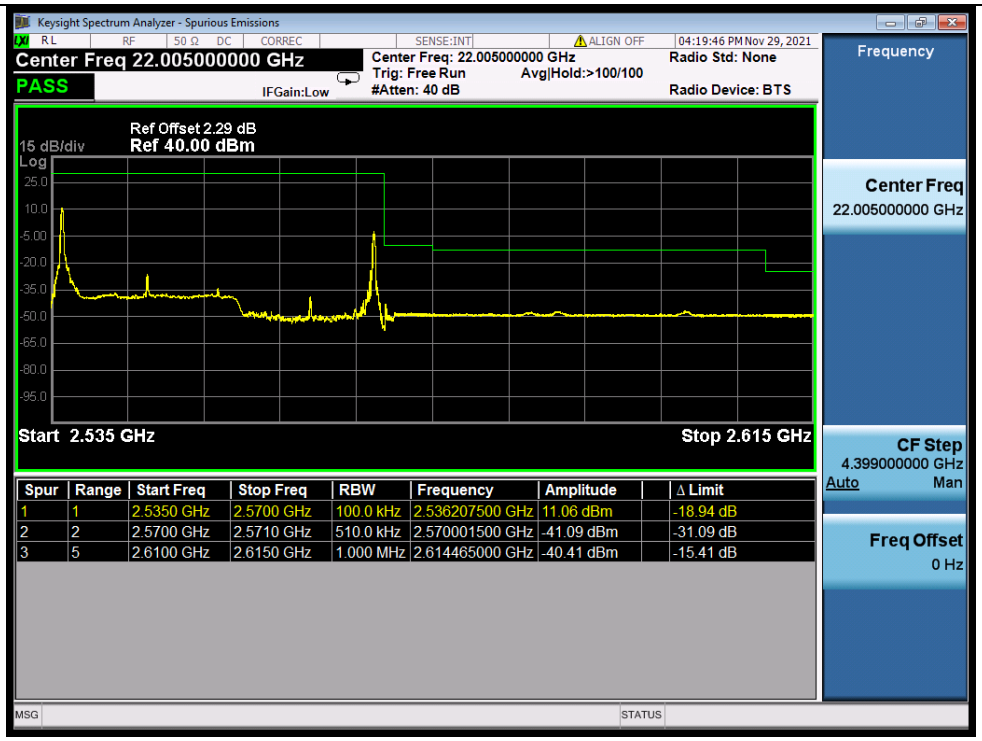
Band_7C_QPSK_LCH_20M+15M _NTNV



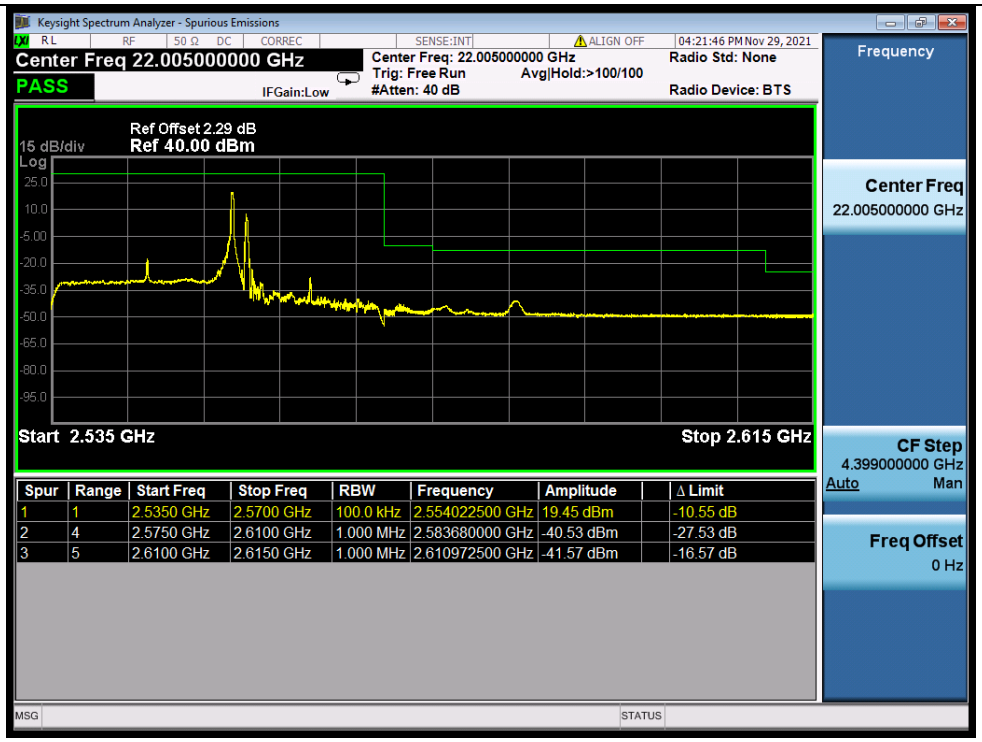
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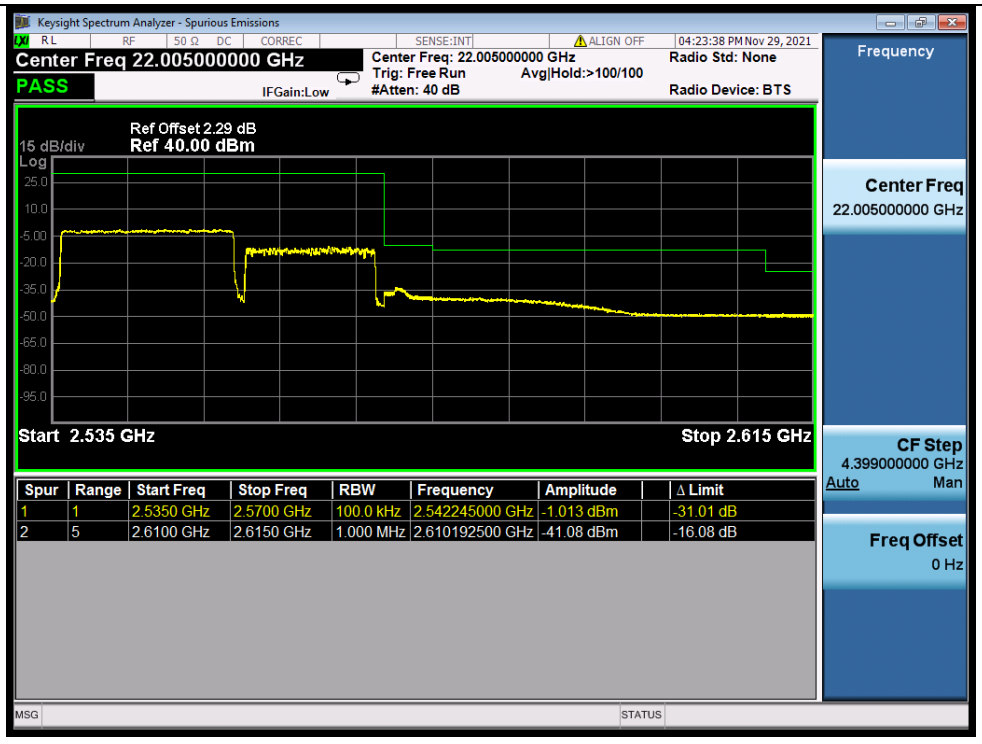
Band_7C_QPSK_HCH_20M+15M _RB_1_0/1_74_NTNV



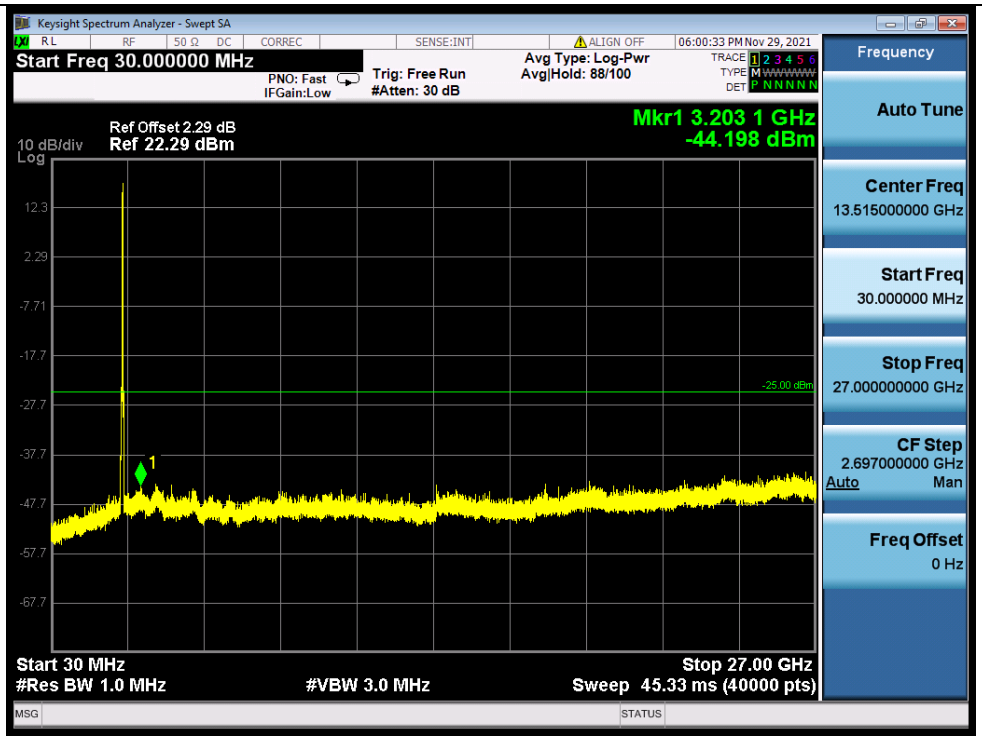
Band_7C_QPSK_HCH_20M+15M _RB_1_99/1_0_NTNV



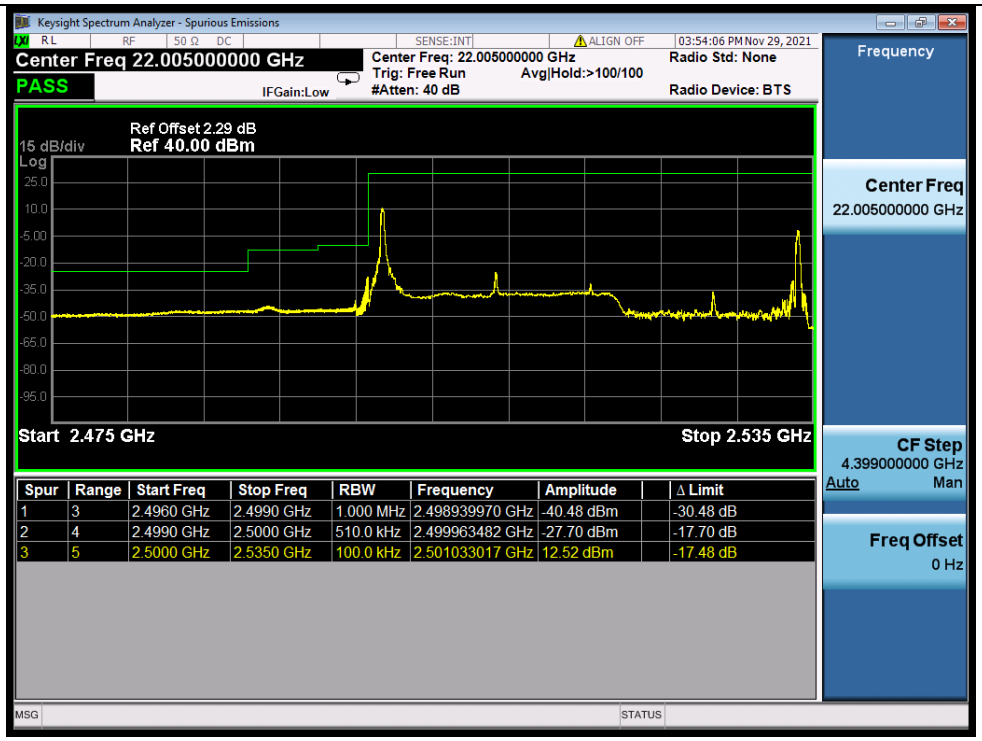
Band_7C_QPSK_HCH_20M+15M _RB_FULL_0_NTNV



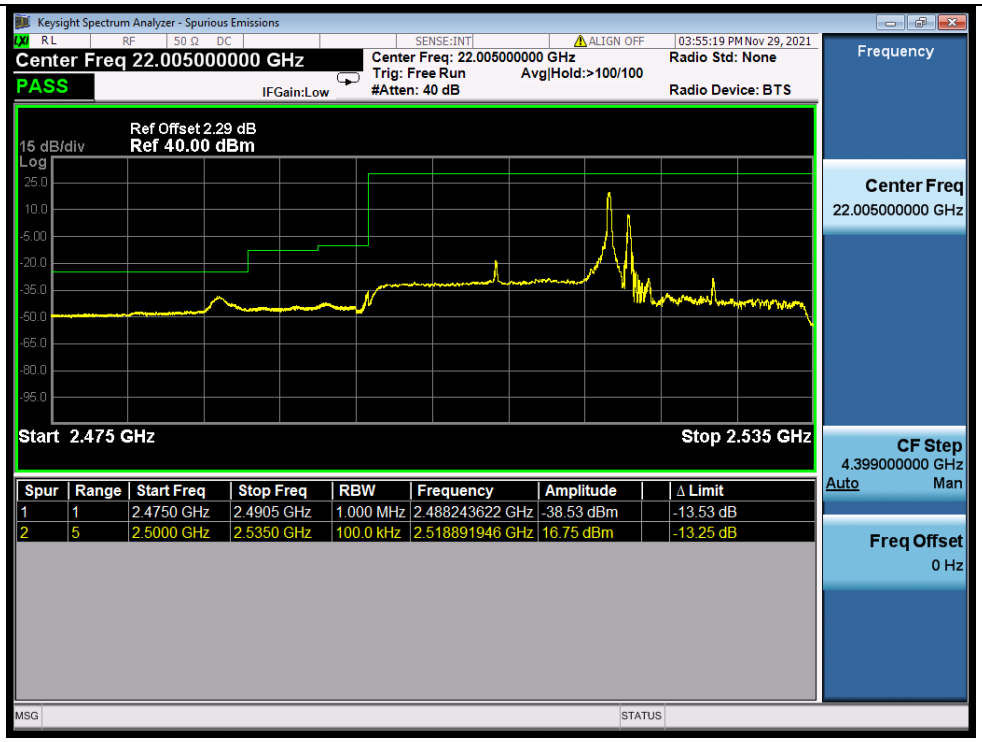
Band_7C_QPSK_HCH_20M+15M _ NTNV



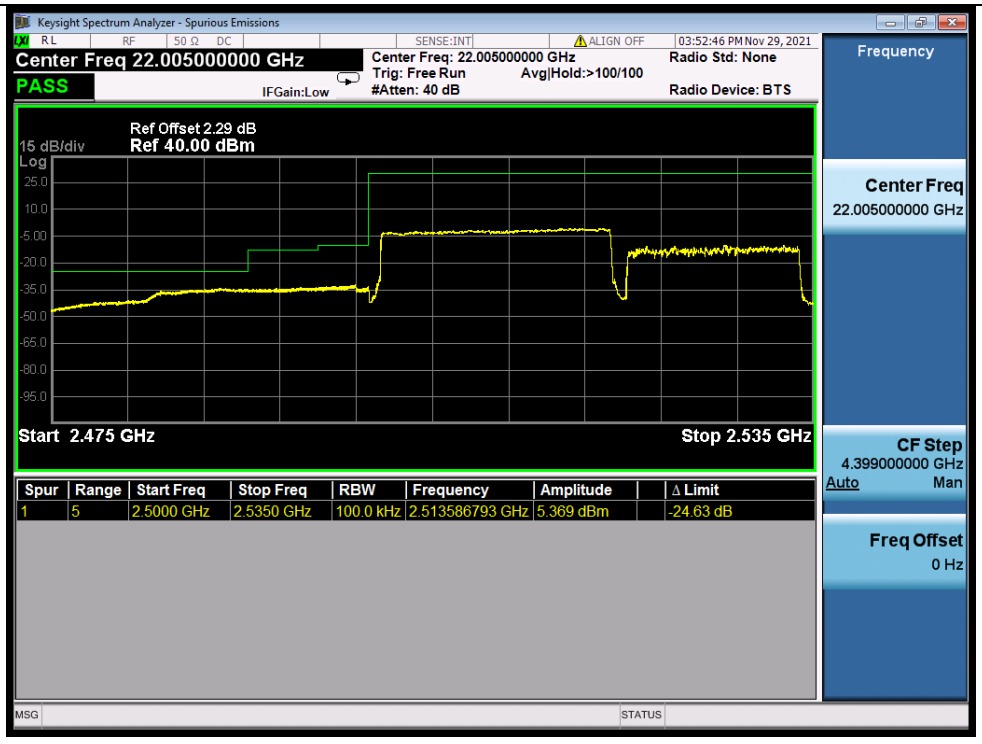
Band_7C_16QAM_LCH_20M+15M _RB_1_0/1_74_NTNV



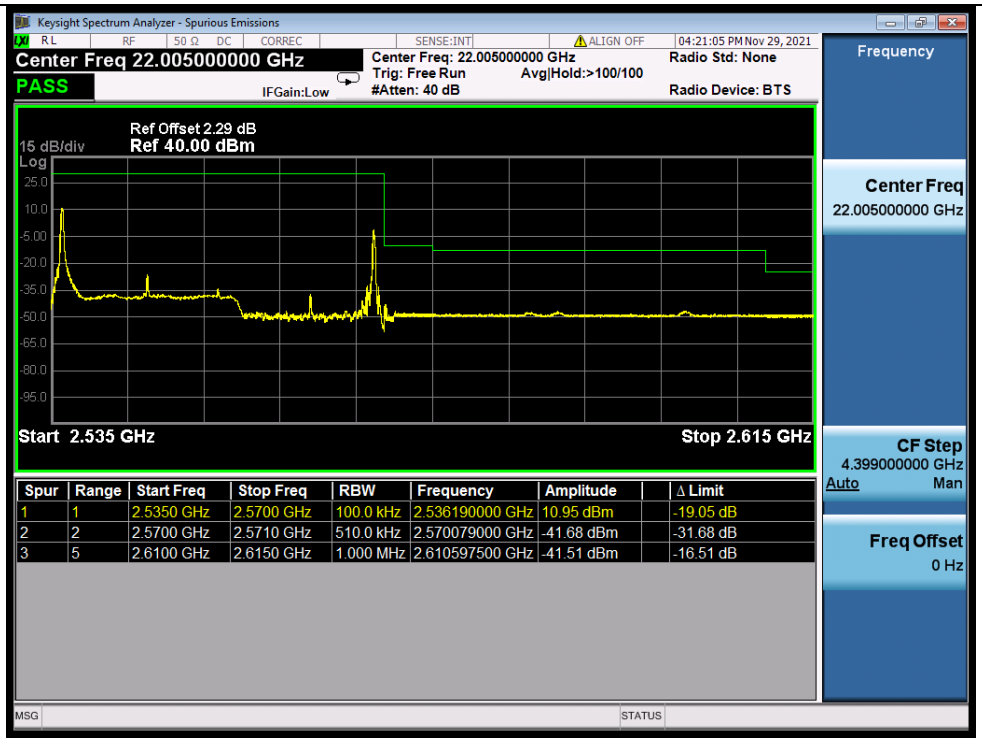
Band_7C_16QAM_LCH_20M+15M _RB_1_99/1_0_NTNV



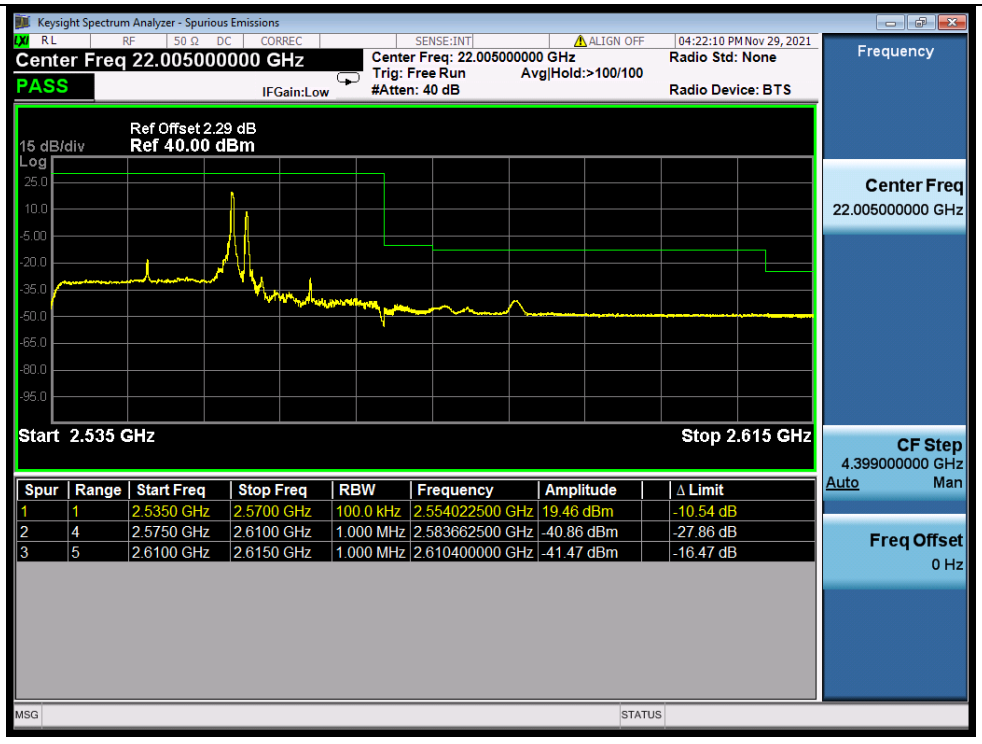
Band_7C_16QAM_LCH_20M+15M _RB_FULL_0_NTNV



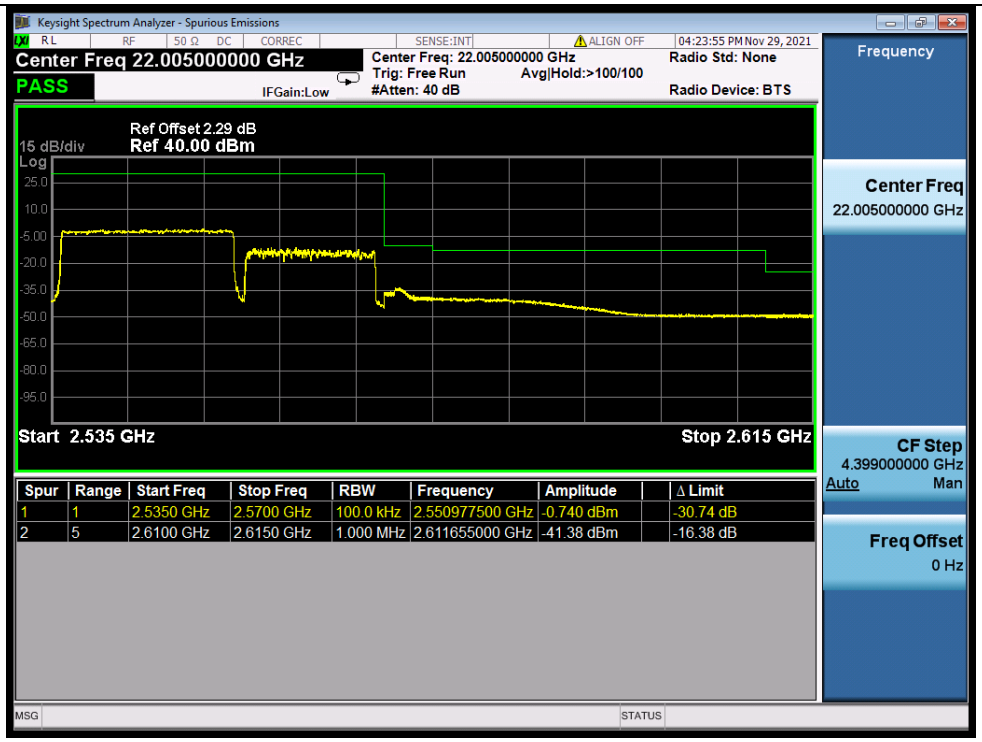
Band_7C_16QAM _HCH_20M+15M _RB_1_0/1_74_NTNV



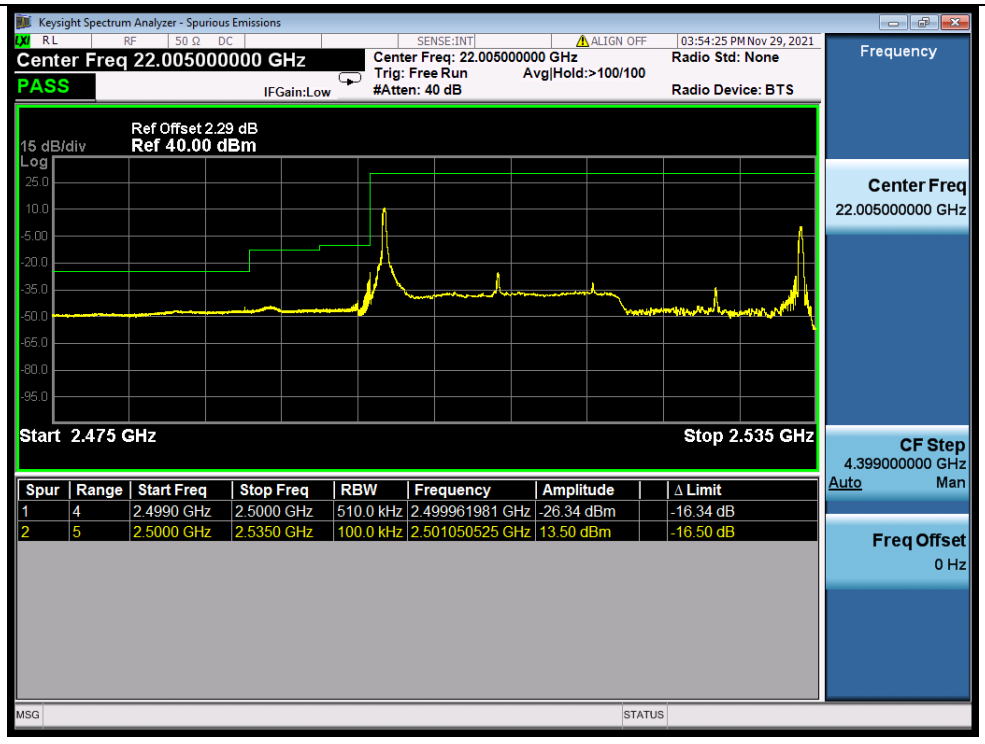
Band_7C_16QAM _HCH_20M+15M _RB_1_99/1_0_NTNV



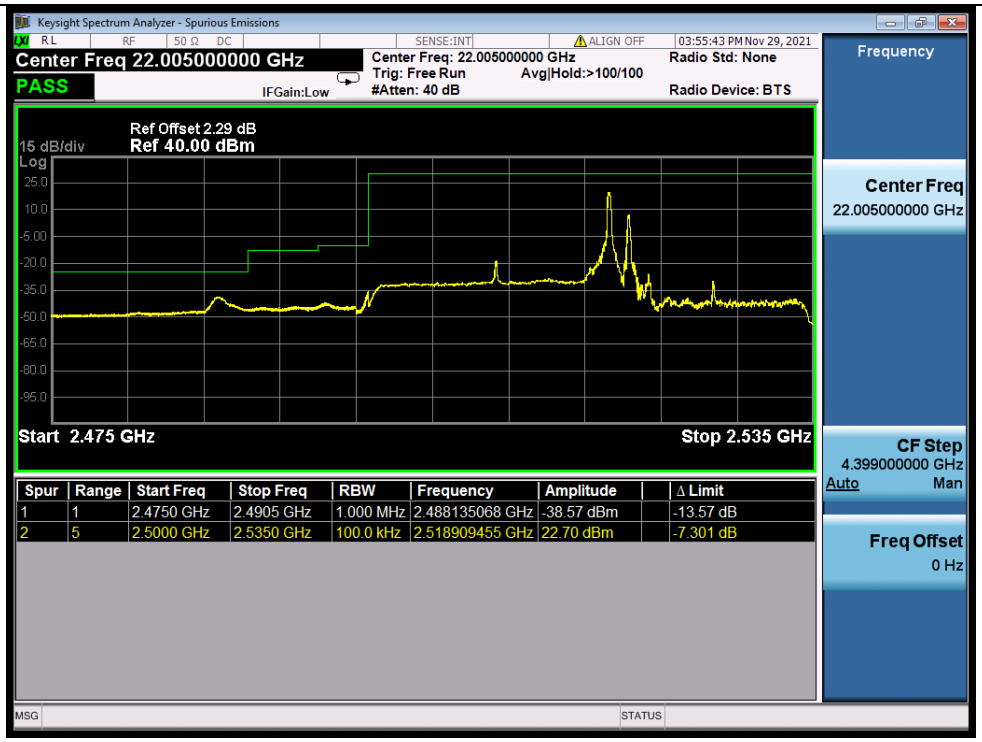
Band_7C_16QAM_HCH_20M+15M _RB_FULL_0_NTNV



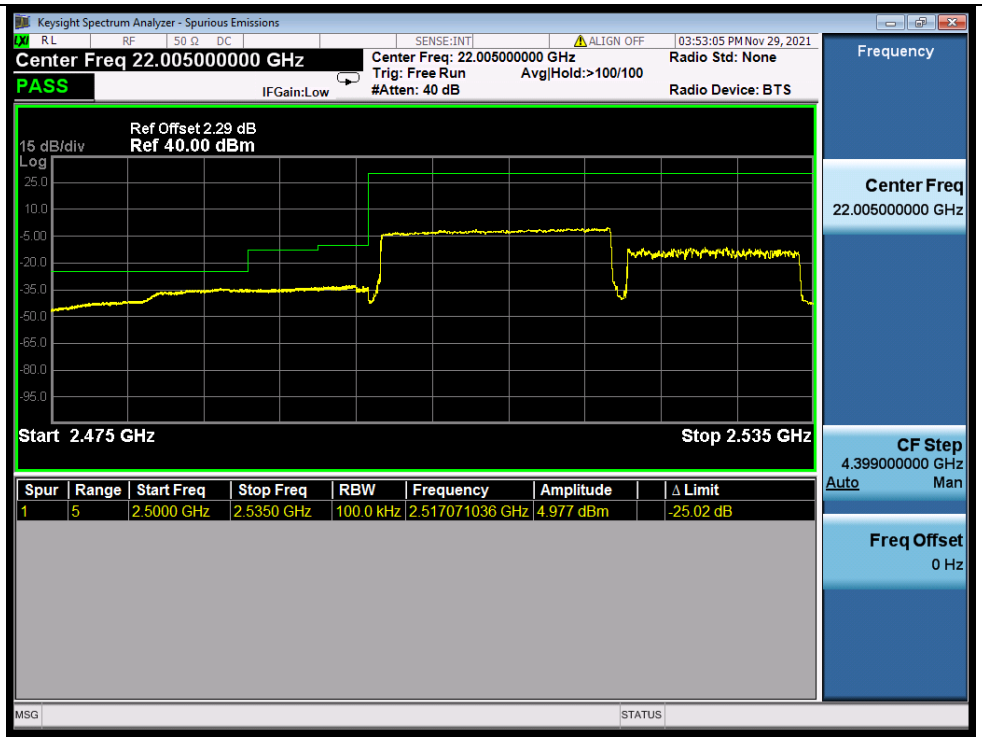
Band_7C_64QAM_LCH_20M+15M _RB_1_0/1_74_NTNV



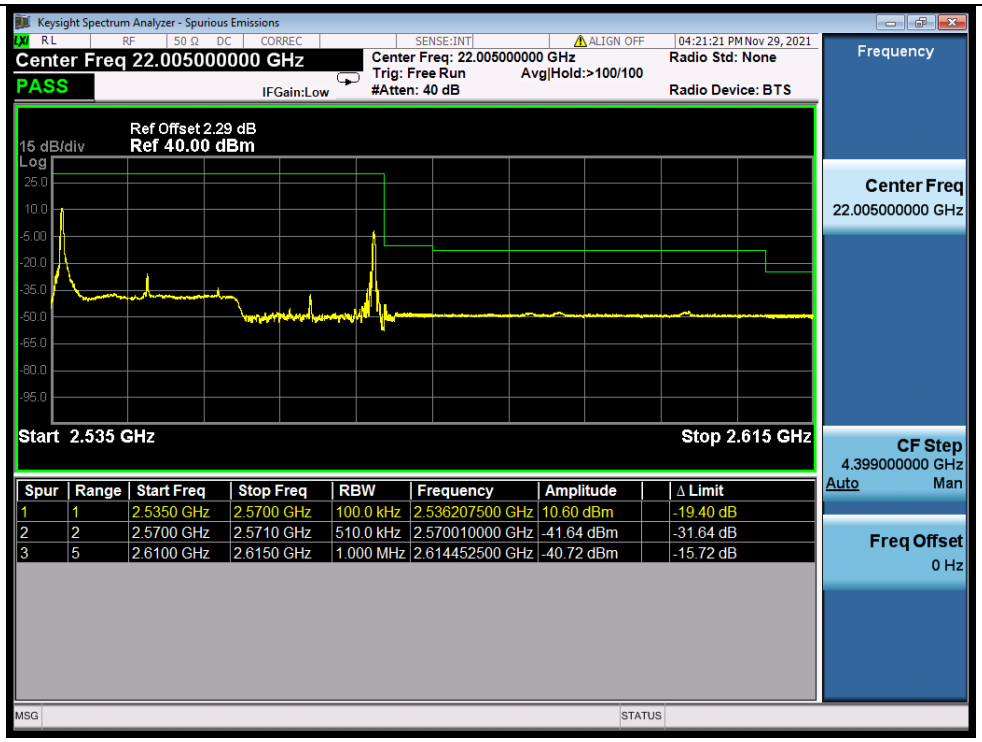
Band_7C_64QAM_LCH_20M+15M _RB_1_99/1_0_NTNV



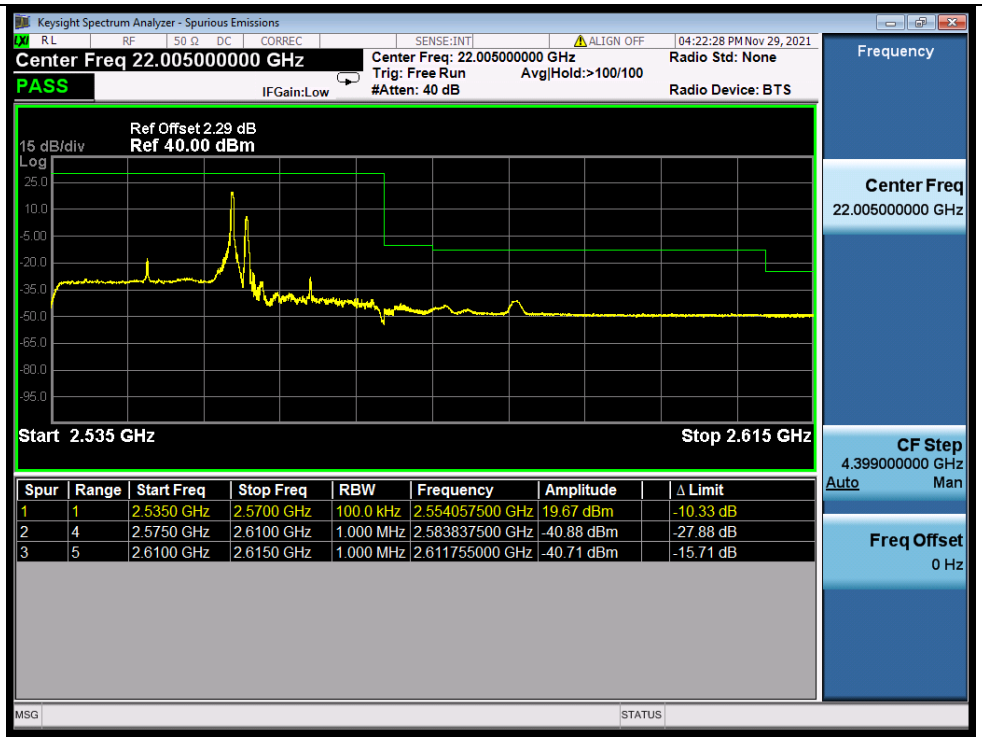
Band_7C_64QAM_LCH_20M+15M _RB_FULL_0_NTNV



Band_7C_64QAM _HCH_20M+15M _RB_1_0/1_74_NTNV



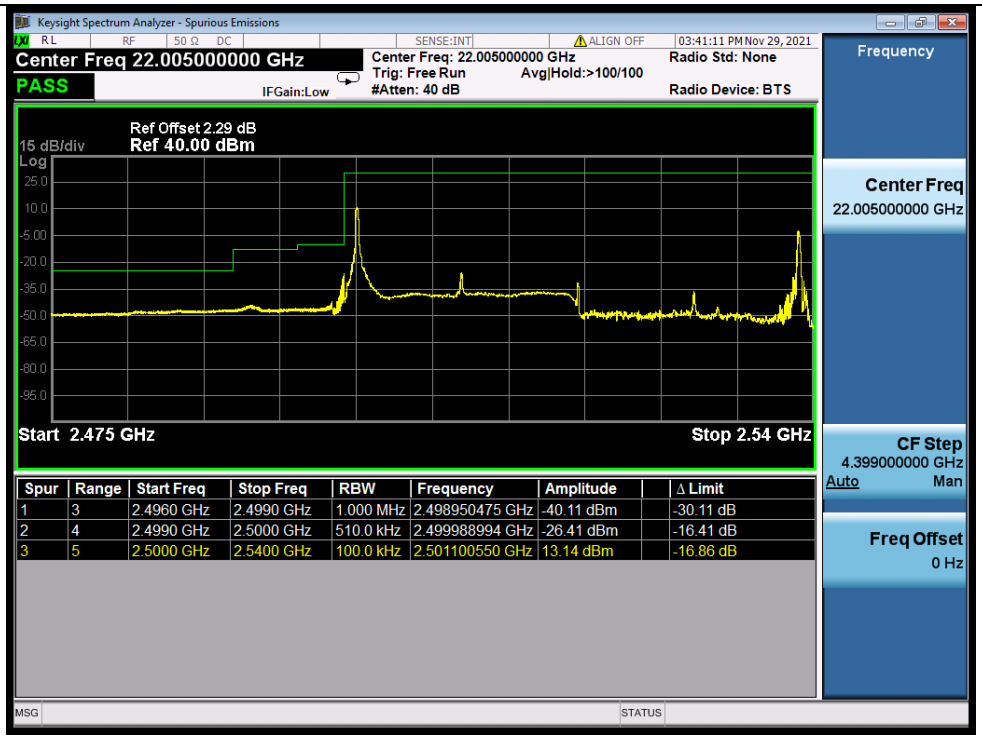
Band_7C_64QAM _HCH_20M+15M _RB_1_99/1_0_NTNV



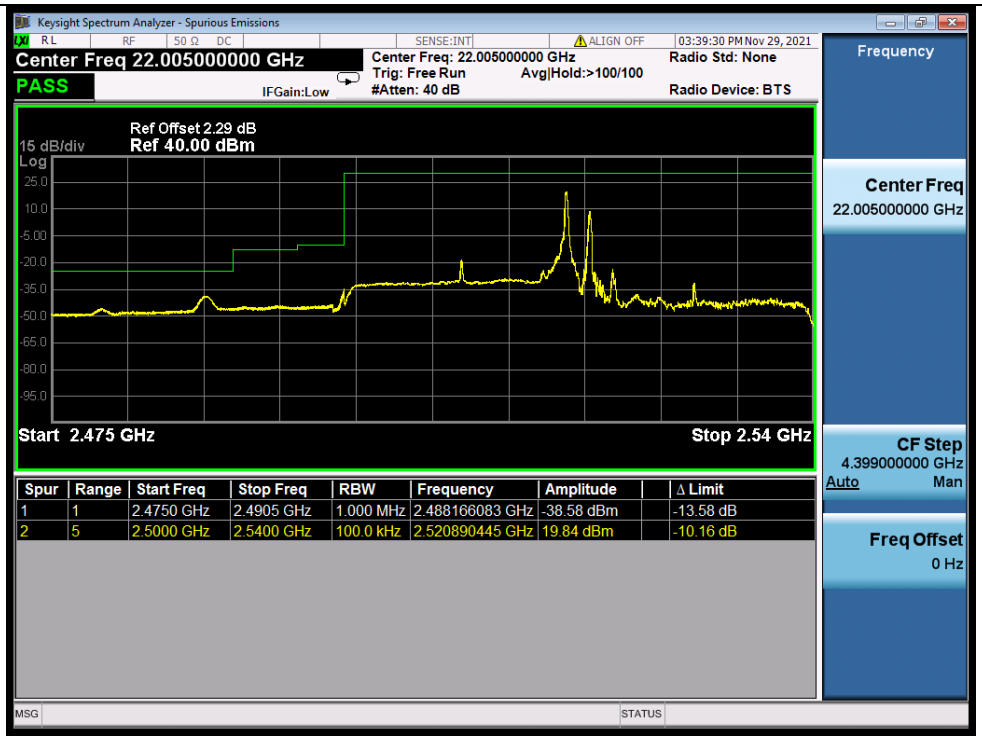
Band_7C_64QAM_HCH_20M+15M _RB_FULL_0_NTNV


Keysight Spectrum Analyzer - Spurious Emissions
RL
RF
50 Ω
DC
CORREC
SENSE:INT
ALIGN OFF
04:24:10 PM Nov 29, 2021
Center Freq 22.005000000 GHz
PASS
IFGain:Low
Center Freq: 22.005000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 2.29 dB
15 dB/div
Ref 40.00 dBm
Log
25.0
10.0
-5.00
-20.0
-35.0
-50.0
-65.0
-80.0
-95.0
Start 2.535 GHz
Stop 2.615 GHz
Center Freq
22.005000000 GHz
CF Step
4.399000000 GHz
Auto
Man
Freq Offset
0 Hz
Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit
1 | 1 | 2.5350 GHz | 2.5700 GHz | 100.0 kHz | 2.553410000 GHz | -1.005 dBm | -31.01 dB
2 | 5 | 2.6100 GHz | 2.6150 GHz | 1.000 MHz | 2.612890000 GHz | -41.49 dBm | -16.49 dB
MSG
STATUS

Band_7C_QPSK_LCH_20M+20M_RB_1_0/1_99_NTNV



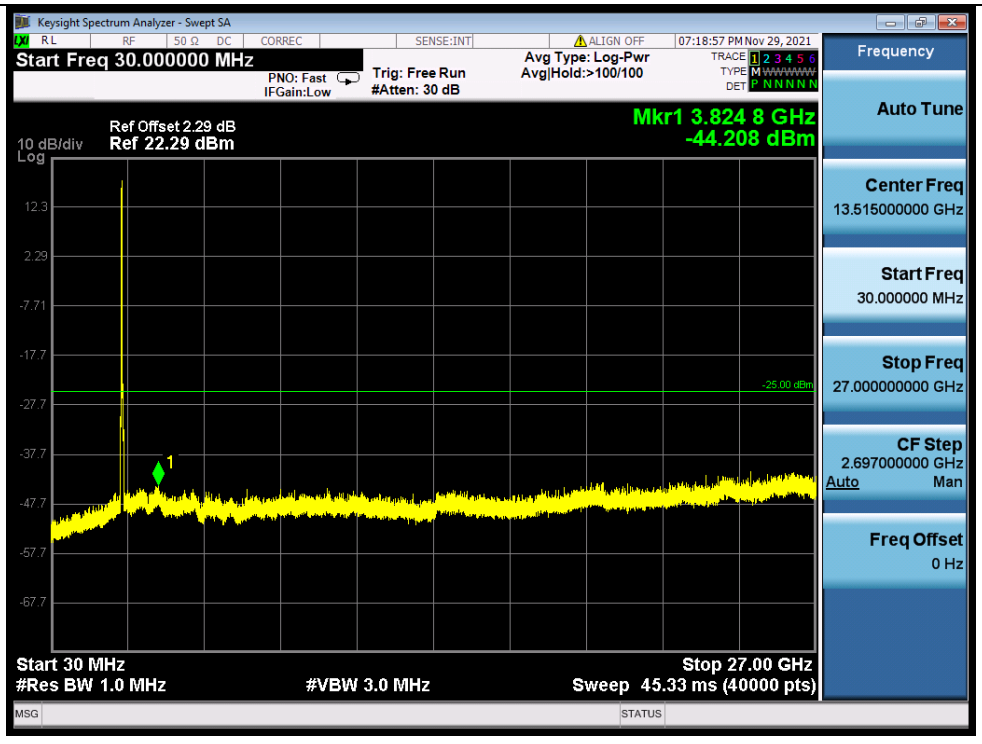
Band_7C_QPSK_LCH_20M+20M _RB_1_99/1_0_NTNV



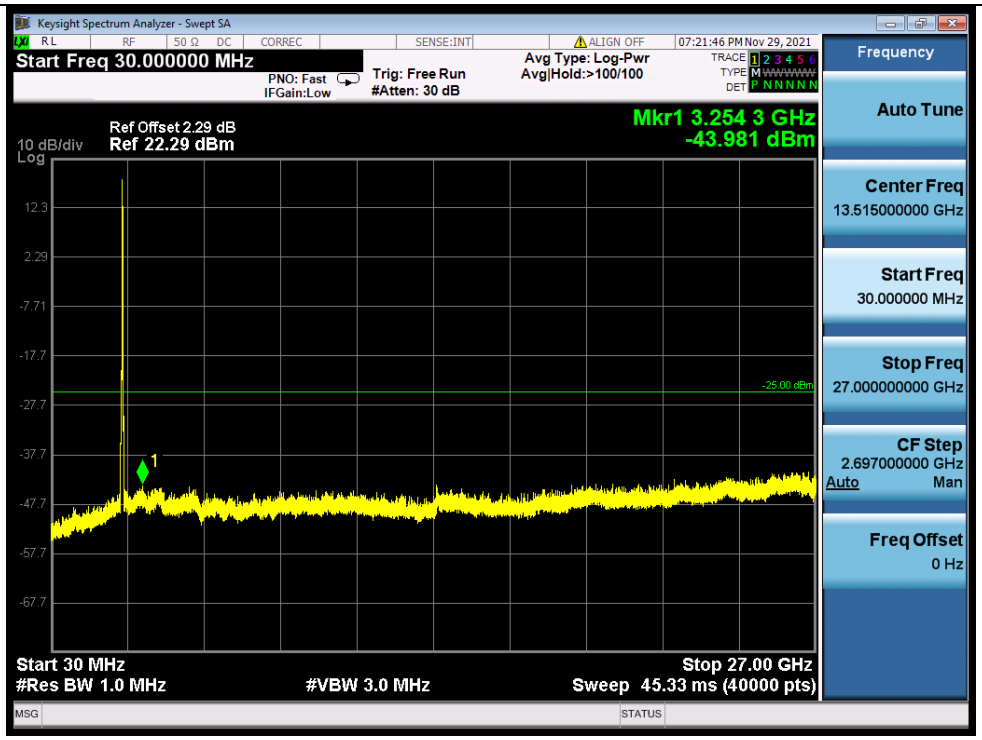
Band_7C_QPSK_LCH_20M+20M _RB_FULL_0_NTNV



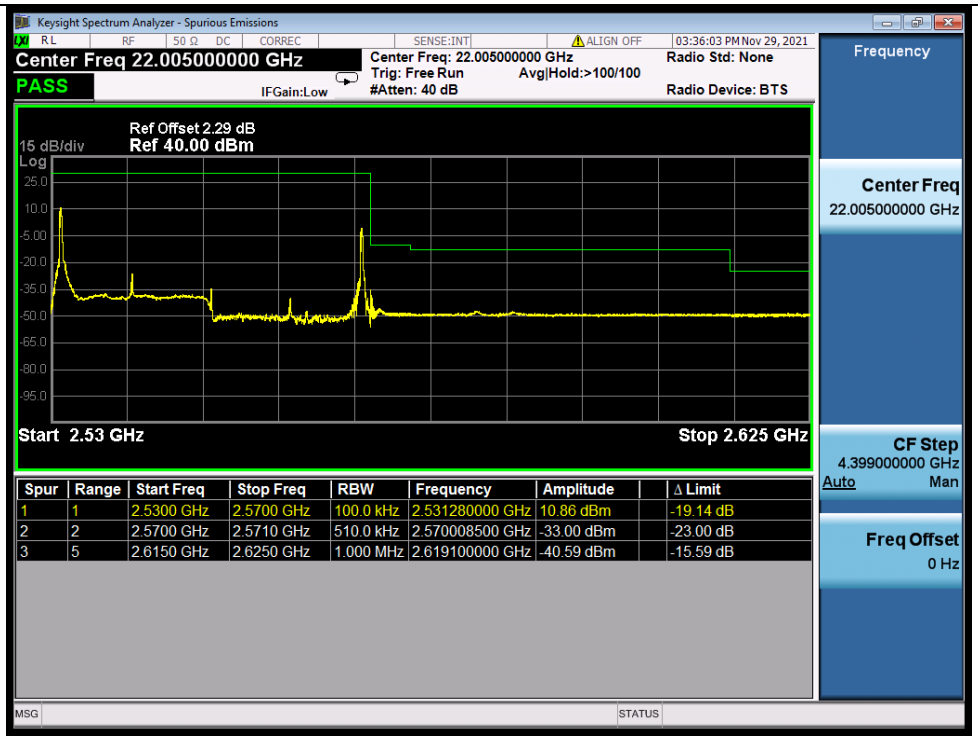
Band_7C_QPSK_LCH_20M+20M _NTNV



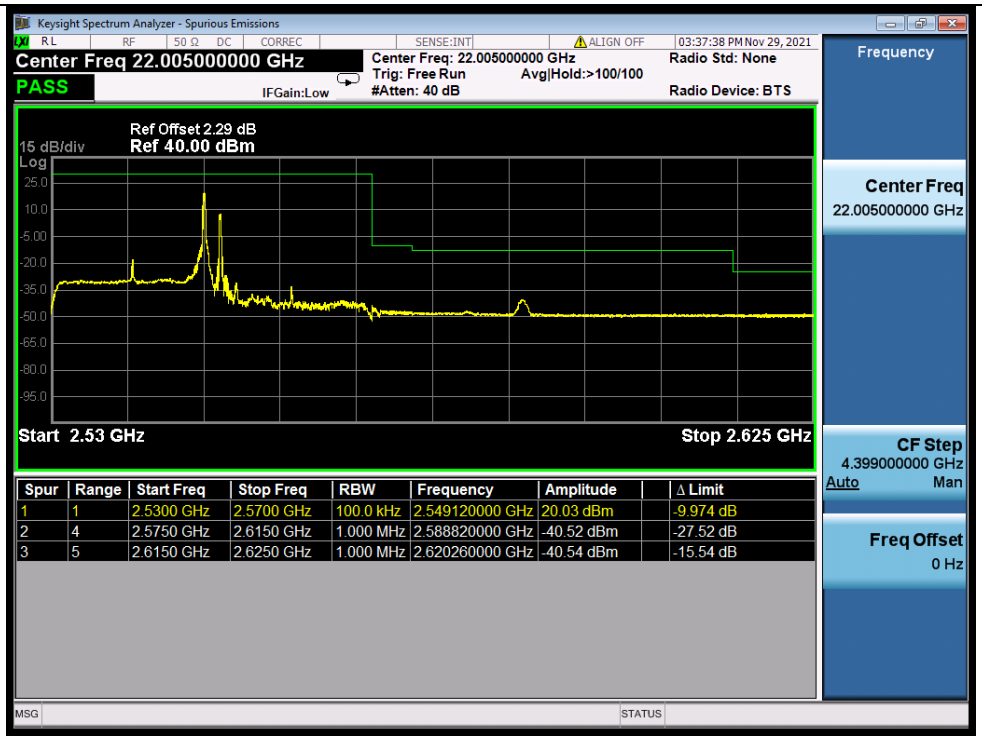
Band_7C_QPSK_MCH_20M+20M _NTNV



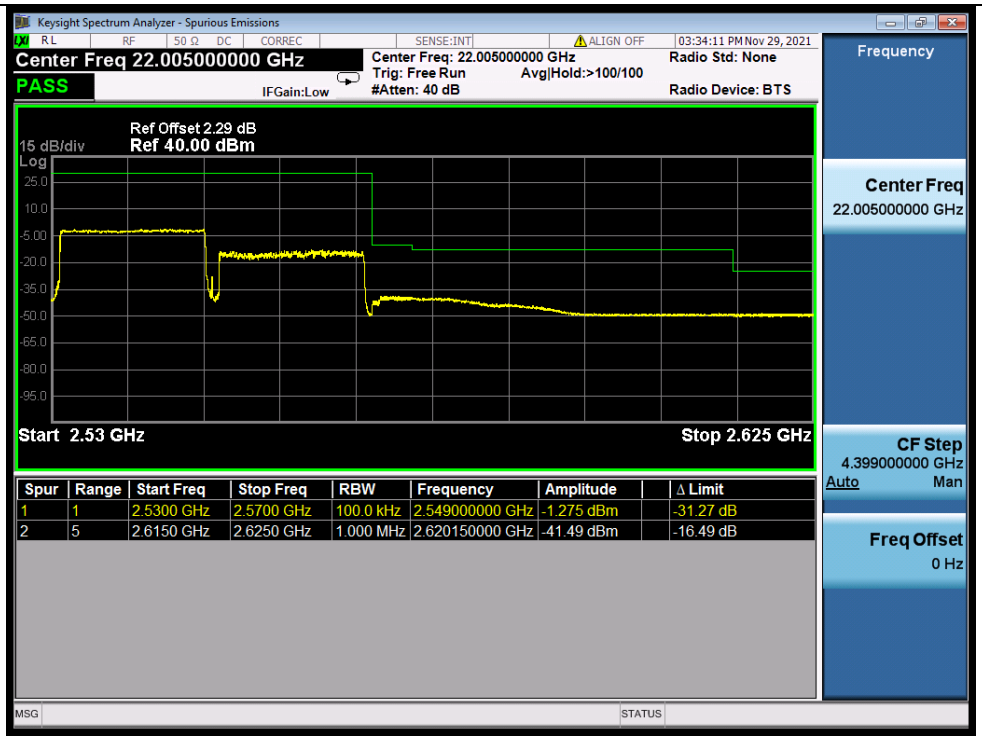
Band_7C_QPSK_HCH_20M+20M _RB_1_0/1_99_NTNV



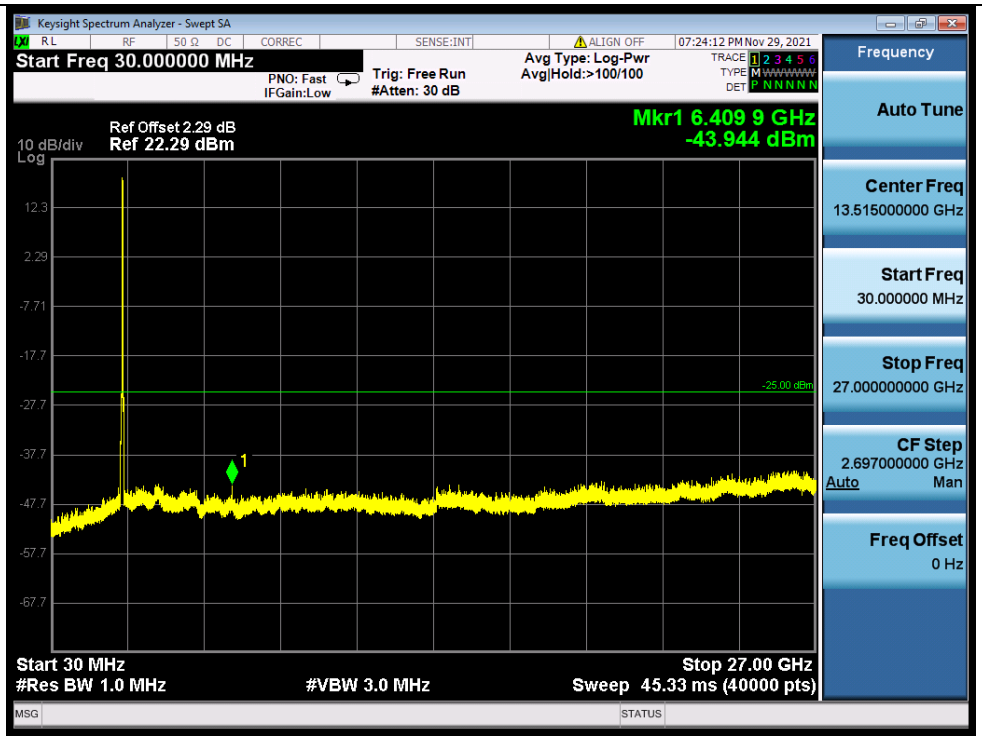
Band_7C_QPSK_HCH_20M+20M _RB_1_99/1_0_NTNV



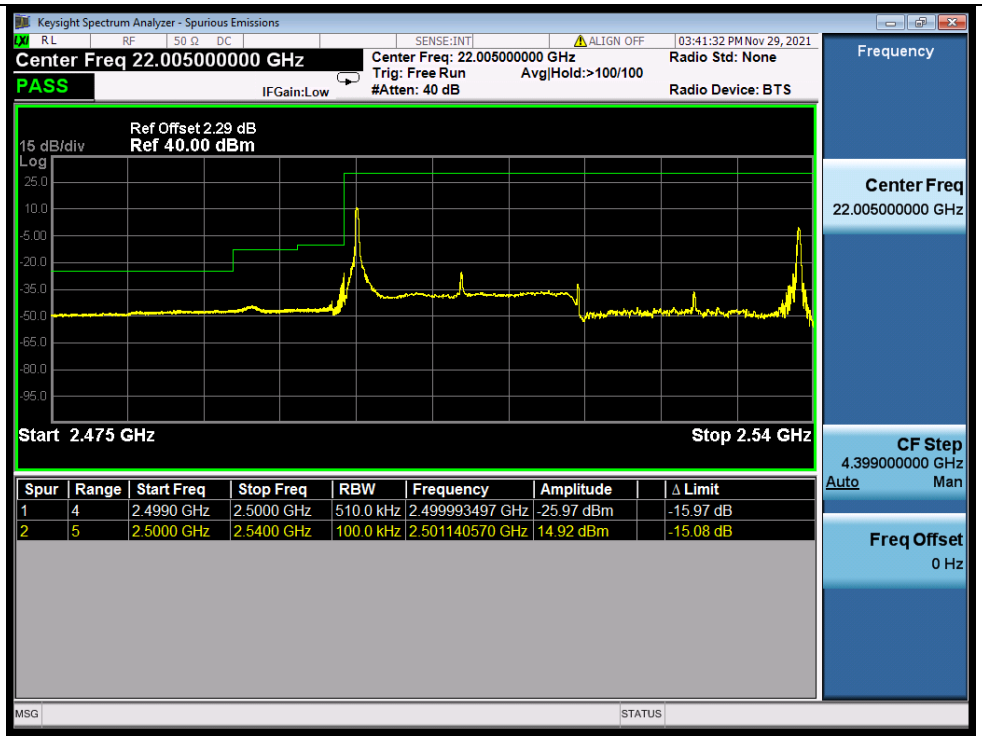
Band_7C_QPSK_HCH_20M+20M _RB_FULL_0_NTNV



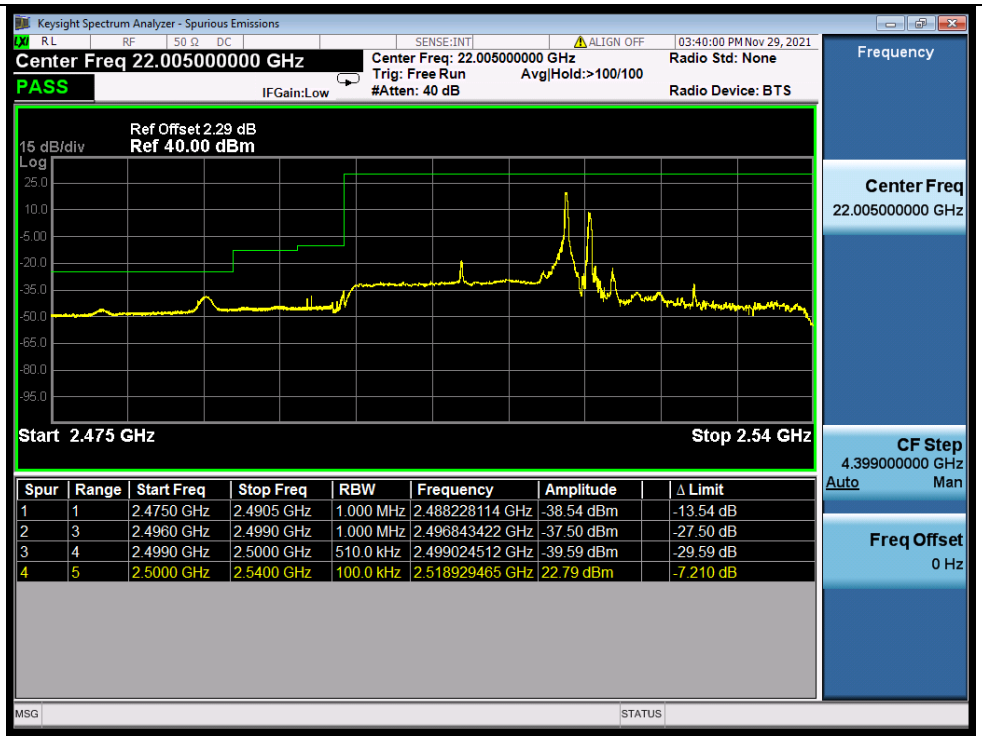
Band_7C_QPSK_HCH_20M+20M _ NTNV



Band_7C_16QAM_LCH_20M+20M _RB_1_0/1_99_NTNV



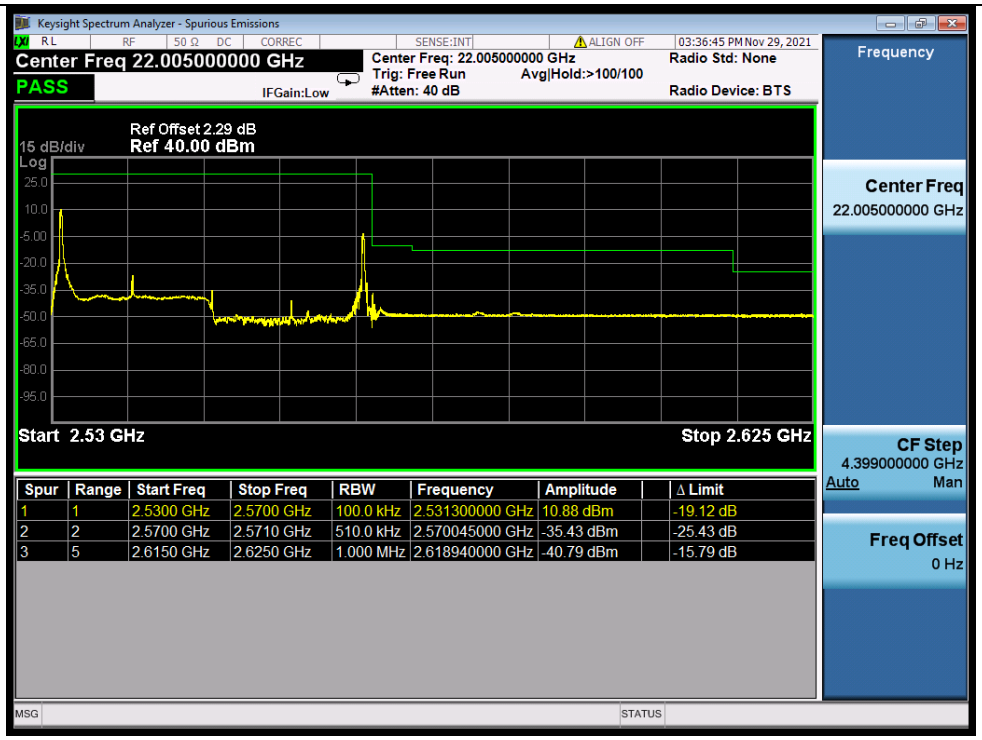
Band_7C_16QAM_LCH_20M+20M _RB_1_99/1_0_NTNV



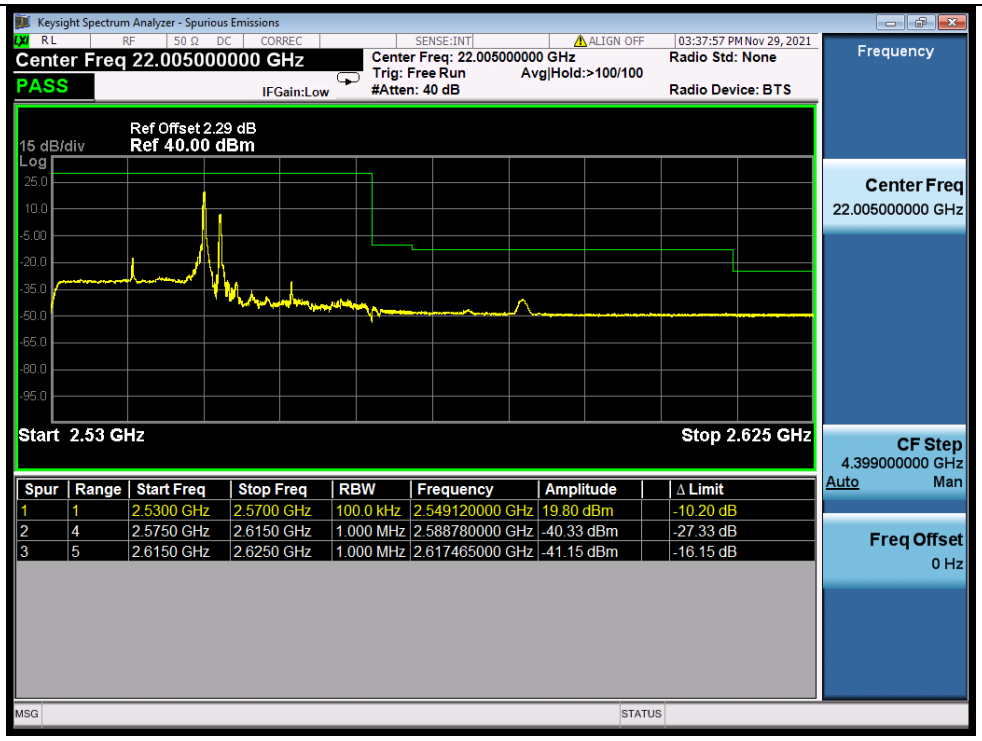
Band_7C_16QAM_LCH_20M+20M _RB_FULL_0_NTNV



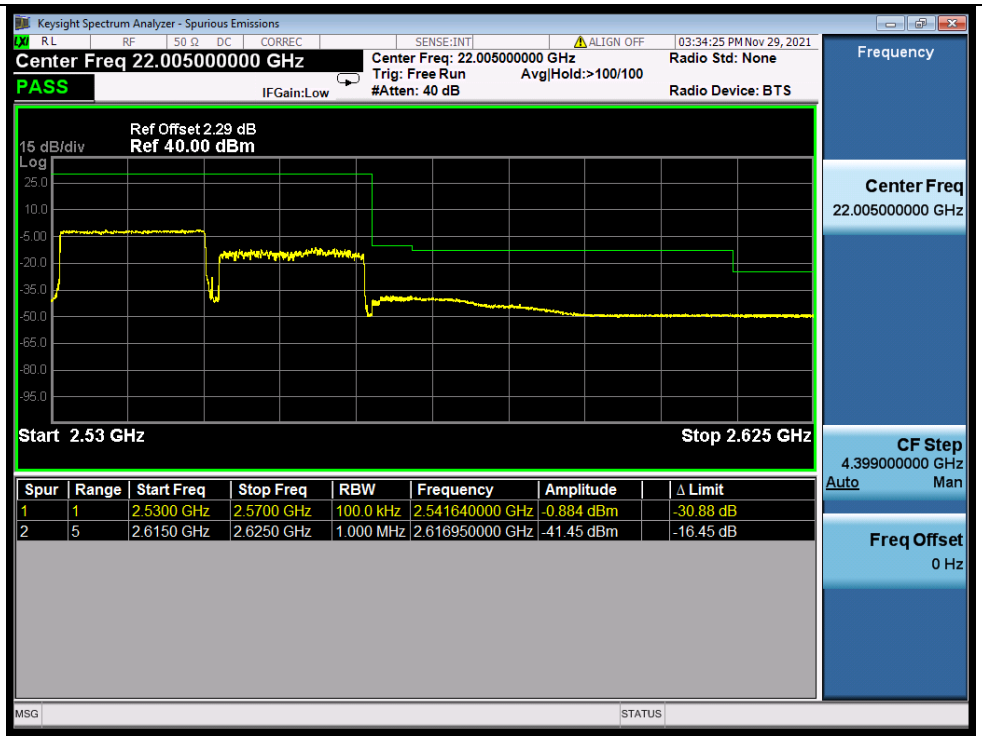
Band_7C_16QAM _HCH_20M+20M _RB_1_0/1_99_NTNV



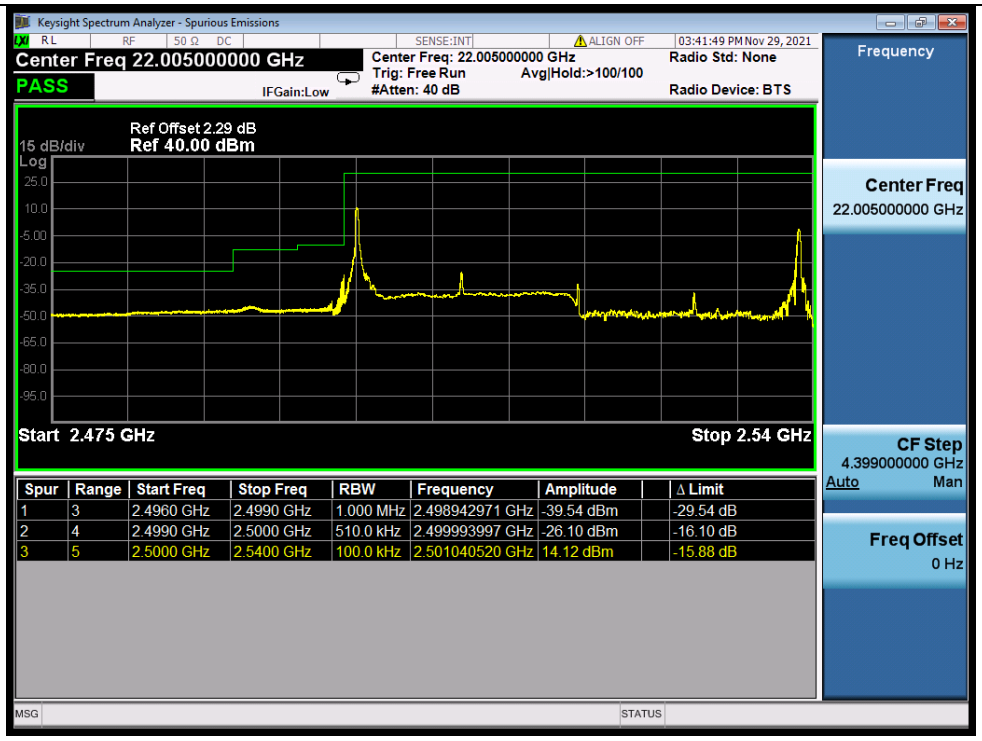
Band_7C_16QAM _HCH_20M+20M _RB_1_99/1_0_NTNV



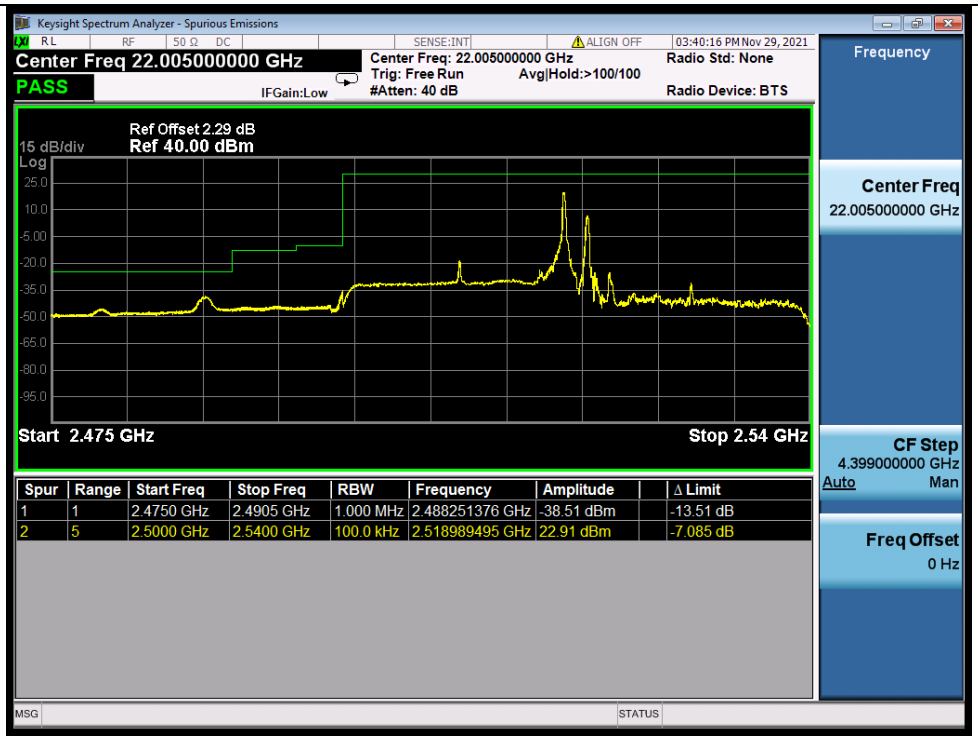
Band_7C_16QAM_HCH_20M+20M _RB_FULL_0_NTNV



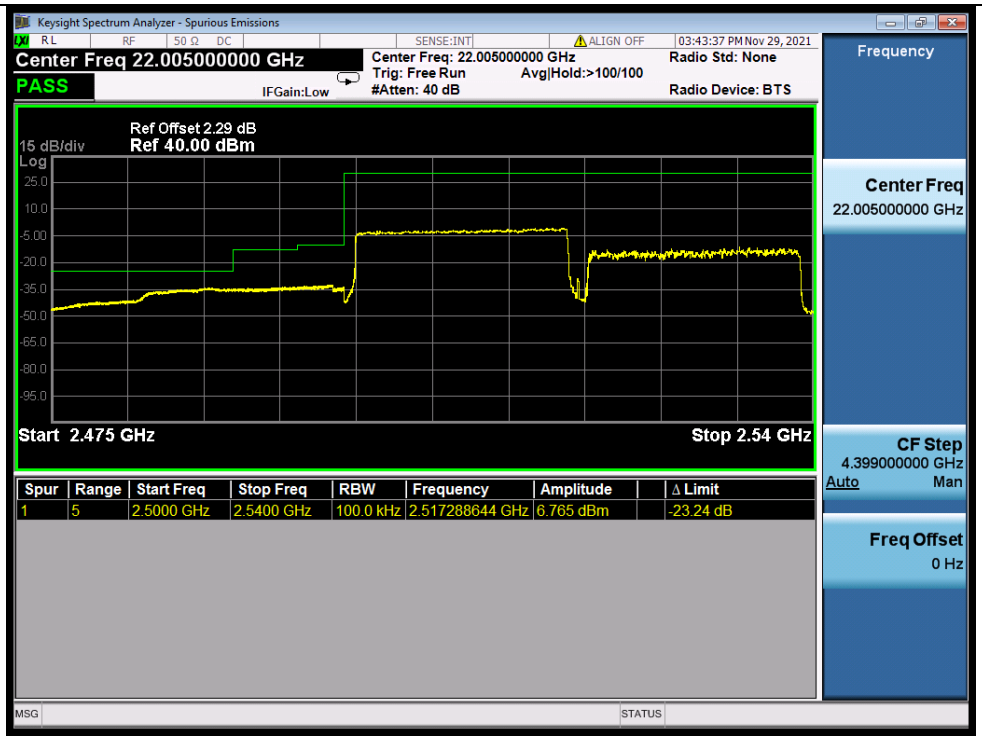
Band_7C_64QAM_LCH_20M+20M _RB_1_0/1_99_NTNV



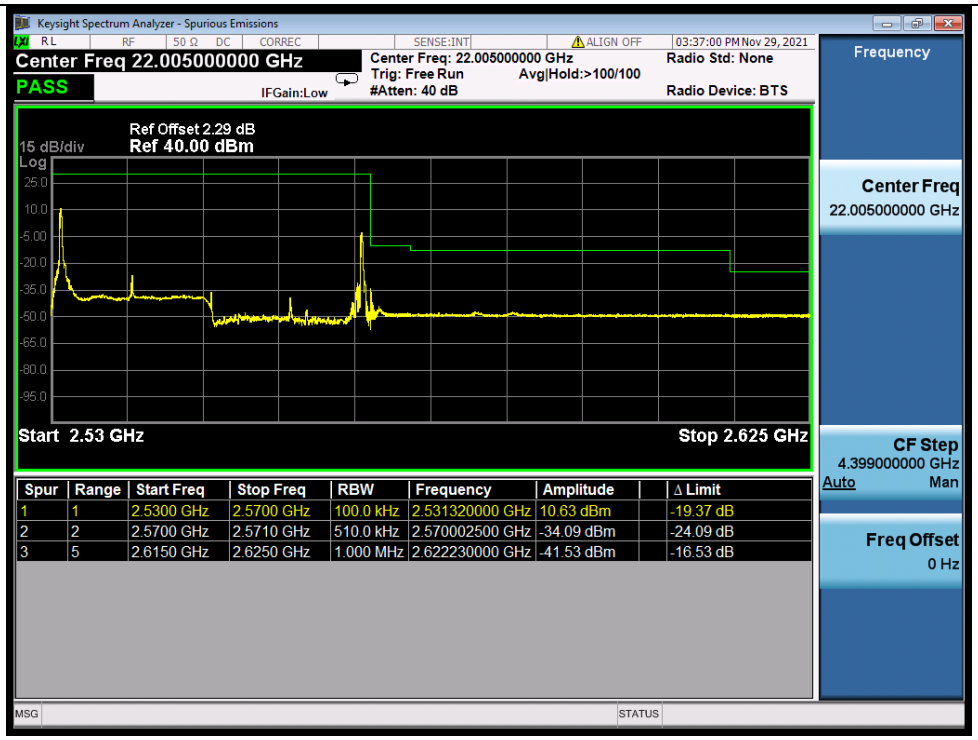
Band_7C_64QAM_LCH_20M+20M _RB_1_99/1_0_NTNV



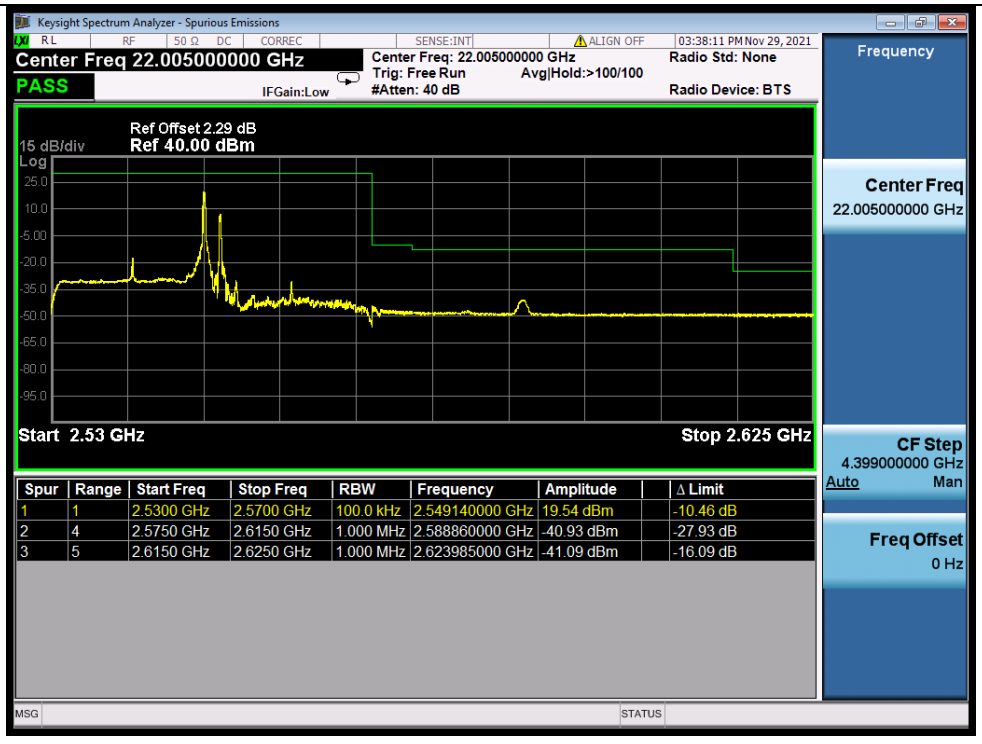
Band_7C_64QAM_LCH_20M+20M _RB_FULL_0_NTNV



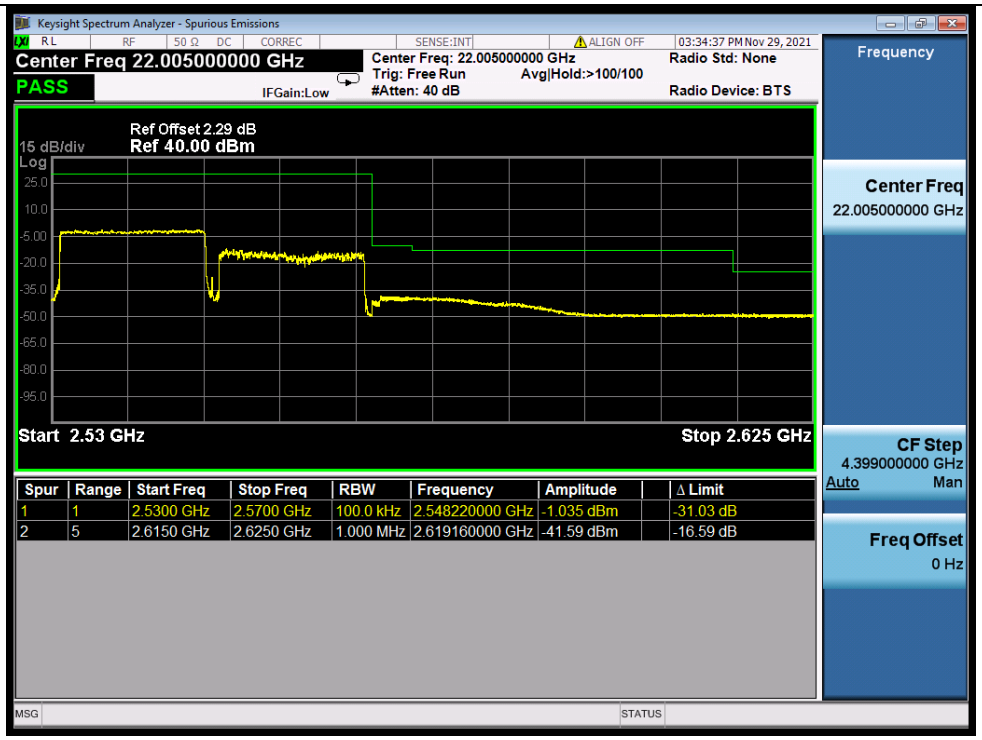
Band_7C_64QAM _HCH_20M+20M _RB_1_0/1_99_NTNV



Band_7C_64QAM _HCH_20M+20M _RB_1_99/1_0_NTNV



Band_7C_64QAM_HCH_20M+20M _RB_FULL_0_NTNV


Keysight Spectrum Analyzer - Spurious Emissions
RL
RF
50 Ω DC
CORREC
SENSE:INT
ALIGN OFF
03:34:37 PM Nov 29, 2021
Center Freq 22.005000000 GHz
PASS
IFGain:Low
Center Freq: 22.005000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 2.29 dB
15 dB/div
Ref 40.00 dBm
Log
25.0
10.0
-5.00
-20.0
-35.0
-50.0
-65.0
-80.0
-95.0
Start 2.53 GHz
Stop 2.625 GHz
Center Freq
22.005000000 GHz
CF Step
4.399000000 GHz
Auto
Man
Freq Offset
0 Hz
Spur | Range | Start Freq | Stop Freq | RBW | Frequency | Amplitude | Δ Limit
1 | 1 | 2.5300 GHz | 2.5700 GHz | 100.0 kHz | 2.548220000 GHz | -1.035 dBm | -31.03 dB
2 | 5 | 2.6150 GHz | 2.6250 GHz | 1.000 MHz | 2.619160000 GHz | -41.59 dBm | -16.59 dB
MSG
STATUS

LTE BAND 38

FREQUENCY STABILITY

B38_5MHZ

TEST RESULT

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	3.27	2.72	0.00	-2.5 to 2.5	Pass
					3.85	1.80	0.00	-2.5 to 2.5	Pass
					4.43	11.97	0.00	-2.5 to 2.5	Pass
				-30	3.85	6.94	0.00	-2.5 to 2.5	Pass
				-20	3.85	15.88	0.01	-2.5 to 2.5	Pass
				-10	3.85	5.41	0.00	-2.5 to 2.5	Pass
				0	3.85	15.26	0.01	-2.5 to 2.5	Pass
				10	3.85	3.32	0.00	-2.5 to 2.5	Pass
				30	3.85	1.19	0.00	-2.5 to 2.5	Pass
				40	3.85	2.42	0.00	-2.5 to 2.5	Pass
				50	3.85	10.11	0.00	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-2.66	-0.00	-2.5 to 2.5	Pass
					3.85	-3.23	-0.00	-2.5 to 2.5	Pass
					4.43	-2.02	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-15.48	-0.01	-2.5 to 2.5	Pass
				-20	3.85	-10.14	-0.00	-2.5 to 2.5	Pass
				-10	3.85	0.09	0.00	-2.5 to 2.5	Pass
				0	3.85	-2.23	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.99	-0.00	-2.5 to 2.5	Pass
				30	3.85	1.47	0.00	-2.5 to 2.5	Pass
				40	3.85	-2.40	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.17	0.00	-2.5 to 2.5	Pass

	2617.5	25	0	20	3.27	-4.79	-0.00	-2.5 to 2.5	Pass
					3.85	-3.30	-0.00	-2.5 to 2.5	Pass
					4.43	-5.84	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.36	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.38	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-6.81	-0.00	-2.5 to 2.5	Pass
				0	3.85	-8.86	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.41	0.00	-2.5 to 2.5	Pass
				30	3.85	-2.39	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.96	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.19	0.00	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	3.27	-0.43	-0.00	-2.5 to 2.5	Pass
					3.85	7.20	0.00	-2.5 to 2.5	Pass
					4.43	7.51	0.00	-2.5 to 2.5	Pass
				-30	3.85	1.96	0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.03	-0.00	-2.5 to 2.5	Pass
				-10	3.85	9.87	0.00	-2.5 to 2.5	Pass
				0	3.85	0.99	0.00	-2.5 to 2.5	Pass
				10	3.85	2.88	0.00	-2.5 to 2.5	Pass
				30	3.85	-1.42	-0.00	-2.5 to 2.5	Pass
				40	3.85	5.38	0.00	-2.5 to 2.5	Pass
				50	3.85	2.12	0.00	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-3.36	-0.00	-2.5 to 2.5	Pass
					3.85	-1.50	-0.00	-2.5 to 2.5	Pass
					4.43	5.29	0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.38	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.09	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-5.85	-0.00	-2.5 to 2.5	Pass
				0	3.85	-4.91	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.37	-0.00	-2.5 to 2.5	Pass
				30	3.85	3.60	0.00	-2.5 to 2.5	Pass

				40	3.85	-4.56	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.06	-0.00	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	-1.89	-0.00	-2.5 to 2.5	Pass
					3.85	0.77	0.00	-2.5 to 2.5	Pass
					4.43	-0.39	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.26	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.04	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.96	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.75	-0.00	-2.5 to 2.5	Pass
				10	3.85	2.80	0.00	-2.5 to 2.5	Pass
				30	3.85	-3.25	-0.00	-2.5 to 2.5	Pass
				40	3.85	-4.72	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.43	-0.00	-2.5 to 2.5	Pass
64QAM	2572.5	25	0	20	3.27	11.36	0.00	-2.5 to 2.5	Pass
					3.85	17.51	0.01	-2.5 to 2.5	Pass
					4.43	2.92	0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.06	0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.54	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.53	-0.00	-2.5 to 2.5	Pass
				0	3.85	-8.98	-0.00	-2.5 to 2.5	Pass
				10	3.85	-1.87	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.18	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.58	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.17	0.00	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	-5.58	-0.00	-2.5 to 2.5	Pass
					3.85	1.65	0.00	-2.5 to 2.5	Pass
					4.43	-7.52	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-13.82	-0.01	-2.5 to 2.5	Pass
				-20	3.85	-10.16	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.88	-0.00	-2.5 to 2.5	Pass
				0	3.85	-6.35	-0.00	-2.5 to 2.5	Pass

				10	3.85	-2.25	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.37	0.00	-2.5 to 2.5	Pass
				40	3.85	-9.10	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.89	-0.00	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	-0.64	-0.00	-2.5 to 2.5	Pass
					3.85	-3.95	-0.00	-2.5 to 2.5	Pass
					4.43	-5.16	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-5.39	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-7.51	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.83	-0.00	-2.5 to 2.5	Pass
				0	3.85	-3.43	-0.00	-2.5 to 2.5	Pass
				10	3.85	-5.18	-0.00	-2.5 to 2.5	Pass
				30	3.85	-11.26	-0.00	-2.5 to 2.5	Pass
				40	3.85	-11.13	-0.00	-2.5 to 2.5	Pass
				50	3.85	-10.96	-0.00	-2.5 to 2.5	Pass

B38_10MHZ

TEST RESULT

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	3.27	-6.59	-0.00	-2.5 to 2.5	Pass
					3.85	-2.58	-0.00	-2.5 to 2.5	Pass
					4.43	-4.89	-0.00	-2.5 to 2.5	Pass
				-30	3.85	2.20	0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.11	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-6.39	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.65	-0.00	-2.5 to 2.5	Pass
				10	3.85	-0.01	0.00	-2.5 to 2.5	Pass
				30	3.85	-3.85	-0.00	-2.5 to 2.5	Pass

				40	3.85	-4.58	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.33	0.00	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-9.31	-0.00	-2.5 to 2.5	Pass
					3.85	-3.45	-0.00	-2.5 to 2.5	Pass
					4.43	-4.36	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.46	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.75	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-3.48	-0.00	-2.5 to 2.5	Pass
				0	3.85	0.36	0.00	-2.5 to 2.5	Pass
				10	3.85	-4.21	-0.00	-2.5 to 2.5	Pass
				30	3.85	-4.13	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.77	-0.00	-2.5 to 2.5	Pass
				50	3.85	-4.63	-0.00	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-5.98	-0.00	-2.5 to 2.5	Pass
					3.85	-10.04	-0.00	-2.5 to 2.5	Pass
					4.43	-4.54	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.88	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.56	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.18	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.63	-0.00	-2.5 to 2.5	Pass
				10	3.85	-3.40	-0.00	-2.5 to 2.5	Pass
				30	3.85	-4.55	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.57	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.86	-0.00	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	3.27	-0.11	0.00	-2.5 to 2.5	Pass
					3.85	-0.14	-0.00	-2.5 to 2.5	Pass
					4.43	-2.00	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.19	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.23	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.70	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.27	-0.00	-2.5 to 2.5	Pass

				10	3.85	-2.16	-0.00	-2.5 to 2.5	Pass
				30	3.85	-6.65	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.03	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.73	-0.00	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-1.23	-0.00	-2.5 to 2.5	Pass
					3.85	-2.30	-0.00	-2.5 to 2.5	Pass
					4.43	-4.25	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.54	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-2.46	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.50	-0.00	-2.5 to 2.5	Pass
				0	3.85	-3.73	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.80	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.25	-0.00	-2.5 to 2.5	Pass
				40	3.85	-0.04	0.00	-2.5 to 2.5	Pass
				50	3.85	-4.71	-0.00	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-7.81	-0.00	-2.5 to 2.5	Pass
					3.85	-7.11	-0.00	-2.5 to 2.5	Pass
					4.43	-6.97	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.28	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.26	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.28	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.69	-0.00	-2.5 to 2.5	Pass
				10	3.85	-4.82	-0.00	-2.5 to 2.5	Pass
				30	3.85	-7.17	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.89	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.63	-0.00	-2.5 to 2.5	Pass
64QAM	2575	50	0	20	3.27	-0.17	-0.00	-2.5 to 2.5	Pass
					3.85	-3.98	-0.00	-2.5 to 2.5	Pass
					4.43	-3.46	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.93	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.13	-0.00	-2.5 to 2.5	Pass

				-10	3.85	-5.55	-0.00	-2.5 to 2.5	Pass
				0	3.85	-4.48	-0.00	-2.5 to 2.5	Pass
				10	3.85	-4.12	-0.00	-2.5 to 2.5	Pass
				30	3.85	-6.57	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.72	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.99	-0.00	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	-7.27	-0.00	-2.5 to 2.5	Pass
					3.85	-8.28	-0.00	-2.5 to 2.5	Pass
					4.43	-7.67	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-7.12	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-8.96	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-4.88	-0.00	-2.5 to 2.5	Pass
				0	3.85	-6.04	-0.00	-2.5 to 2.5	Pass
				10	3.85	-8.21	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.26	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.42	-0.00	-2.5 to 2.5	Pass
				50	3.85	-4.49	-0.00	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-3.19	-0.00	-2.5 to 2.5	Pass
					3.85	-3.05	-0.00	-2.5 to 2.5	Pass
					4.43	-2.23	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-6.50	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.89	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-6.11	-0.00	-2.5 to 2.5	Pass
				0	3.85	-8.67	-0.00	-2.5 to 2.5	Pass
				10	3.85	-1.50	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.27	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.26	-0.00	-2.5 to 2.5	Pass
				50	3.85	-7.30	-0.00	-2.5 to 2.5	Pass

B38_15MHZ

TEST RESULT

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	3.27	-8.87	-0.00	-2.5 to 2.5	Pass
					3.85	-8.63	-0.00	-2.5 to 2.5	Pass
					4.43	0.39	0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.04	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.95	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-6.01	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.69	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.72	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.03	-0.00	-2.5 to 2.5	Pass
				40	3.85	-4.55	-0.00	-2.5 to 2.5	Pass
				50	3.85	-5.01	-0.00	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-4.18	-0.00	-2.5 to 2.5	Pass
					3.85	-4.54	-0.00	-2.5 to 2.5	Pass
					4.43	-1.76	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.66	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-2.20	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.70	-0.00	-2.5 to 2.5	Pass
				0	3.85	-4.58	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.46	0.00	-2.5 to 2.5	Pass
				30	3.85	-0.96	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.84	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.42	-0.00	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-0.24	-0.00	-2.5 to 2.5	Pass
					3.85	-2.60	-0.00	-2.5 to 2.5	Pass
					4.43	-3.95	-0.00	-2.5 to 2.5	Pass

				-30	3.85	-2.95	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.54	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.47	-0.00	-2.5 to 2.5	Pass
				0	3.85	1.06	0.00	-2.5 to 2.5	Pass
				10	3.85	-7.30	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.12	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.52	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.50	-0.00	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	3.27	-3.53	-0.00	-2.5 to 2.5	Pass
					3.85	-7.72	-0.00	-2.5 to 2.5	Pass
					4.43	-8.68	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-7.52	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-10.20	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-7.25	-0.00	-2.5 to 2.5	Pass
				0	3.85	-7.27	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.40	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.01	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.31	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.52	0.00	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	2.69	0.00	-2.5 to 2.5	Pass
					3.85	-7.91	-0.00	-2.5 to 2.5	Pass
					4.43	-4.86	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.72	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.22	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.37	-0.00	-2.5 to 2.5	Pass
				0	3.85	-3.69	-0.00	-2.5 to 2.5	Pass
				10	3.85	-5.34	-0.00	-2.5 to 2.5	Pass
				30	3.85	-4.38	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.32	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.15	-0.00	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-4.33	-0.00	-2.5 to 2.5	Pass

					3.85	-1.75	-0.00	-2.5 to 2.5	Pass
					4.43	1.19	0.00	-2.5 to 2.5	Pass
				-30	3.85	-7.74	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.46	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-1.37	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.02	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.73	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.86	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.60	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.35	-0.00	-2.5 to 2.5	Pass
64QAM	2577.5	75	0	20	3.27	5.06	0.00	-2.5 to 2.5	Pass
					3.85	1.40	0.00	-2.5 to 2.5	Pass
					4.43	2.48	0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.59	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.93	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.95	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.13	-0.00	-2.5 to 2.5	Pass
				10	3.85	-3.36	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.36	0.00	-2.5 to 2.5	Pass
				40	3.85	-4.18	-0.00	-2.5 to 2.5	Pass
				50	3.85	-0.46	-0.00	-2.5 to 2.5	Pass
	2595	75	0	20	3.27	-3.88	-0.00	-2.5 to 2.5	Pass
					3.85	-3.86	-0.00	-2.5 to 2.5	Pass
					4.43	1.29	0.00	-2.5 to 2.5	Pass
				-30	3.85	-3.95	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.34	-0.00	-2.5 to 2.5	Pass
				-10	3.85	1.17	0.00	-2.5 to 2.5	Pass
				0	3.85	-1.82	-0.00	-2.5 to 2.5	Pass
				10	3.85	-5.64	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.59	-0.00	-2.5 to 2.5	Pass
				40	3.85	2.25	0.00	-2.5 to 2.5	Pass

				50	3.85	-1.36	-0.00	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	-1.89	-0.00	-2.5 to 2.5	Pass
					3.85	-3.93	-0.00	-2.5 to 2.5	Pass
					4.43	-7.08	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.90	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-5.05	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-8.58	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.35	-0.00	-2.5 to 2.5	Pass
				10	3.85	-0.74	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.89	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.86	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.50	-0.00	-2.5 to 2.5	Pass

B38_20MHZ

TEST RESULT

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	3.27	-8.12	-0.00	-2.5 to 2.5	Pass
					3.85	-0.33	-0.00	-2.5 to 2.5	Pass
					4.43	-3.10	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-5.05	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-2.35	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.90	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.31	-0.00	-2.5 to 2.5	Pass
				10	3.85	-4.38	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.72	-0.00	-2.5 to 2.5	Pass
				40	3.85	-4.38	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.10	-0.00	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-4.05	-0.00	-2.5 to 2.5	Pass

					3.85	-2.19	-0.00	-2.5 to 2.5	Pass
					4.43	1.47	0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.93	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.62	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-3.66	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.54	-0.00	-2.5 to 2.5	Pass
				10	3.85	-0.43	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.75	-0.00	-2.5 to 2.5	Pass
				40	3.85	-0.94	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.98	-0.00	-2.5 to 2.5	Pass
	2610	100	0		3.27	-3.62	-0.00	-2.5 to 2.5	Pass
				20	3.85	-3.09	-0.00	-2.5 to 2.5	Pass
					4.43	-6.75	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.89	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-6.01	-0.00	-2.5 to 2.5	Pass
				-10	3.85	2.79	0.00	-2.5 to 2.5	Pass
				0	3.85	-1.89	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.53	0.00	-2.5 to 2.5	Pass
				30	3.85	-6.19	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.71	-0.00	-2.5 to 2.5	Pass
				50	3.85	0.29	0.00	-2.5 to 2.5	Pass
16QAM	2580	100	0		3.27	-4.22	-0.00	-2.5 to 2.5	Pass
				20	3.85	-1.95	-0.00	-2.5 to 2.5	Pass
					4.43	-1.56	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-5.39	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.59	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.40	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.44	-0.00	-2.5 to 2.5	Pass
				10	3.85	-3.69	-0.00	-2.5 to 2.5	Pass
				30	3.85	-1.60	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.33	-0.00	-2.5 to 2.5	Pass

				50	3.85	-5.04	-0.00	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-5.96	-0.00	-2.5 to 2.5	Pass
					3.85	-3.76	-0.00	-2.5 to 2.5	Pass
					4.43	-6.01	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-12.14	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-9.26	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-9.27	-0.00	-2.5 to 2.5	Pass
				0	3.85	-5.91	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.48	-0.00	-2.5 to 2.5	Pass
				30	3.85	-4.54	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.11	-0.00	-2.5 to 2.5	Pass
				50	3.85	-4.36	-0.00	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-0.73	-0.00	-2.5 to 2.5	Pass
					3.85	-3.22	-0.00	-2.5 to 2.5	Pass
					4.43	-0.06	0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.87	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-2.62	-0.00	-2.5 to 2.5	Pass
				-10	3.85	0.67	0.00	-2.5 to 2.5	Pass
				0	3.85	0.83	0.00	-2.5 to 2.5	Pass
				10	3.85	-3.48	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.40	-0.00	-2.5 to 2.5	Pass
				40	3.85	0.93	0.00	-2.5 to 2.5	Pass
				50	3.85	-5.72	-0.00	-2.5 to 2.5	Pass
64QAM	2580	100	0	20	3.27	-1.36	-0.00	-2.5 to 2.5	Pass
					3.85	-6.04	-0.00	-2.5 to 2.5	Pass
					4.43	-2.33	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-3.95	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.11	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-3.56	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.30	-0.00	-2.5 to 2.5	Pass
				10	3.85	-1.60	-0.00	-2.5 to 2.5	Pass

				30	3.85	-4.72	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.28	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.75	-0.00	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-1.02	-0.00	-2.5 to 2.5	Pass
					3.85	-5.16	-0.00	-2.5 to 2.5	Pass
					4.43	-6.41	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-7.60	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-4.42	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-9.87	-0.00	-2.5 to 2.5	Pass
				0	3.85	-6.85	-0.00	-2.5 to 2.5	Pass
				10	3.85	-6.28	-0.00	-2.5 to 2.5	Pass
				30	3.85	-5.96	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.02	-0.00	-2.5 to 2.5	Pass
				50	3.85	-9.13	-0.00	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-0.43	-0.00	-2.5 to 2.5	Pass
					3.85	-2.63	-0.00	-2.5 to 2.5	Pass
					4.43	-5.25	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-5.44	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-8.21	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-5.46	-0.00	-2.5 to 2.5	Pass
				0	3.85	-1.29	-0.00	-2.5 to 2.5	Pass
				10	3.85	-7.07	-0.00	-2.5 to 2.5	Pass
				30	3.85	-1.60	-0.00	-2.5 to 2.5	Pass
				40	3.85	-5.84	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.12	-0.00	-2.5 to 2.5	Pass

99% & 26DB BANDWIDTH

BAND38_OBW

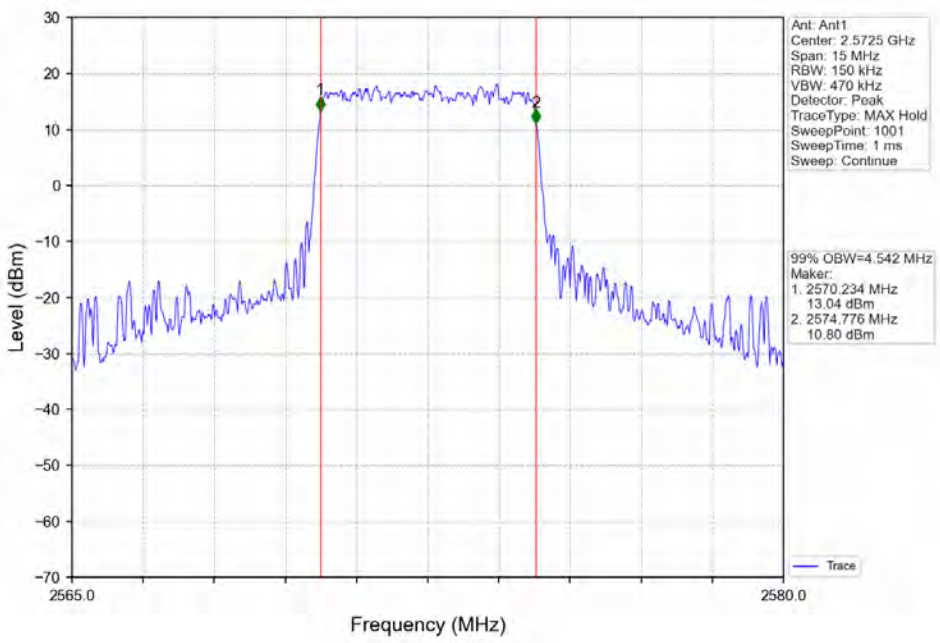
TEST RESULT

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	4.542	Pass
		2595	25	0	4.545	Pass
		2617.5	25	0	4.552	Pass
	16QAM	2572.5	25	0	4.543	Pass
		2595	25	0	4.543	Pass
		2617.5	25	0	4.538	Pass
	64QAM	2572.5	25	0	4.552	Pass
		2595	25	0	4.535	Pass
		2617.5	25	0	4.553	Pass
10	QPSK	2575	50	0	9.060	Pass
		2595	50	0	9.061	Pass
		2615	50	0	9.064	Pass
	16QAM	2575	50	0	9.030	Pass
		2595	50	0	9.028	Pass
		2615	50	0	9.066	Pass
	64QAM	2575	50	0	9.051	Pass
		2595	50	0	9.030	Pass
		2615	50	0	9.058	Pass
15	QPSK	2577.5	75	0	13.632	Pass
		2595	75	0	13.590	Pass
		2612.5	75	0	13.538	Pass
	16QAM	2577.5	75	0	13.585	Pass
		2595	75	0	13.550	Pass

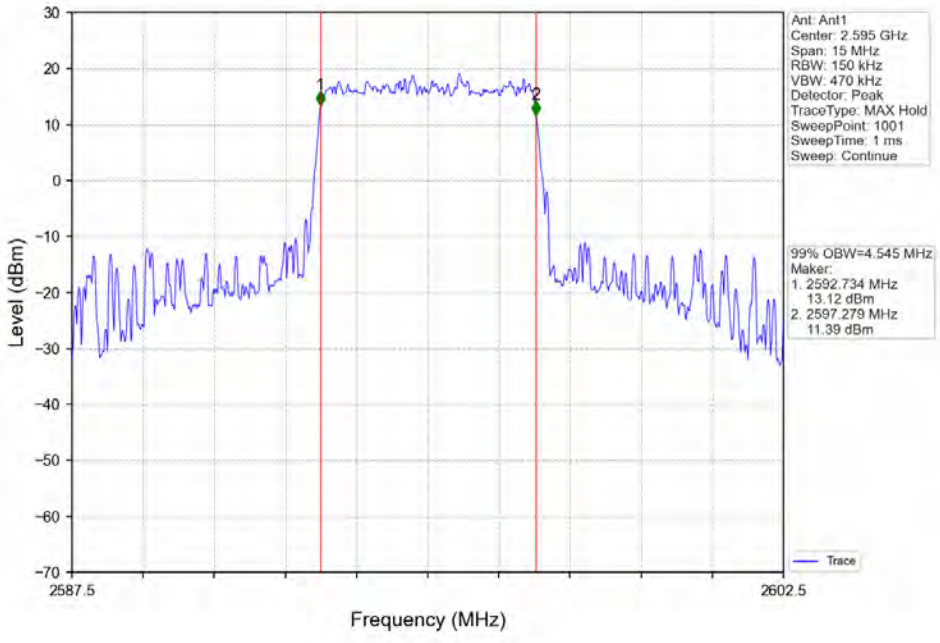
		2612.5	75	0	13.595	Pass
	64QAM	2577.5	75	0	13.566	Pass
		2595	75	0	13.631	Pass
		2612.5	75	0	13.576	Pass
20	QPSK	2580	100	0	18.053	Pass
		2595	100	0	18.084	Pass
		2610	100	0	18.093	Pass
	16QAM	2580	100	0	18.049	Pass
		2595	100	0	18.091	Pass
		2610	100	0	18.043	Pass
	64QAM	2580	100	0	18.027	Pass
		2595	100	0	18.066	Pass
		2610	100	0	18.012	Pass

TEST GRAPH

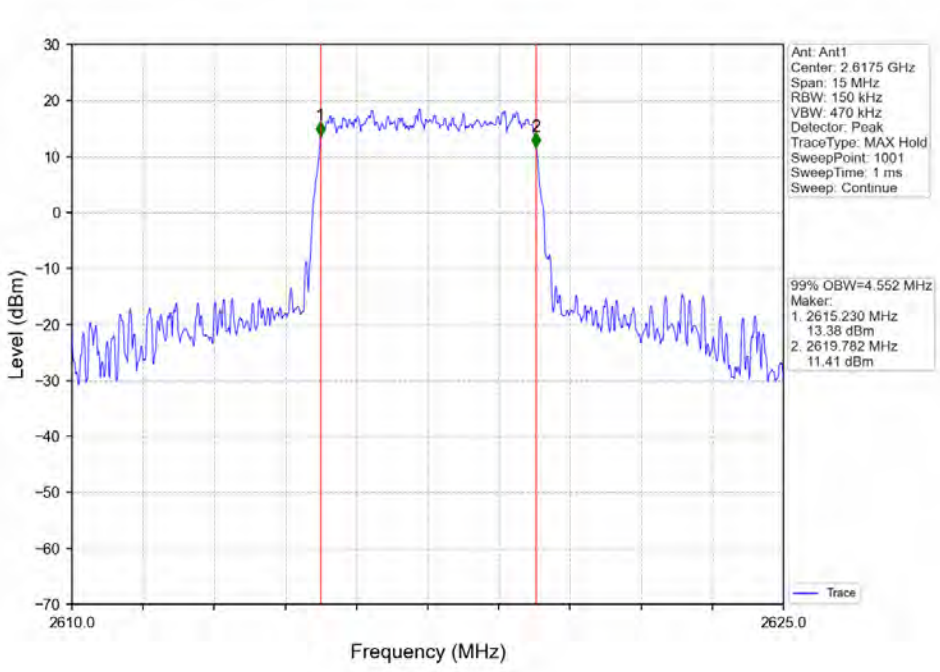
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



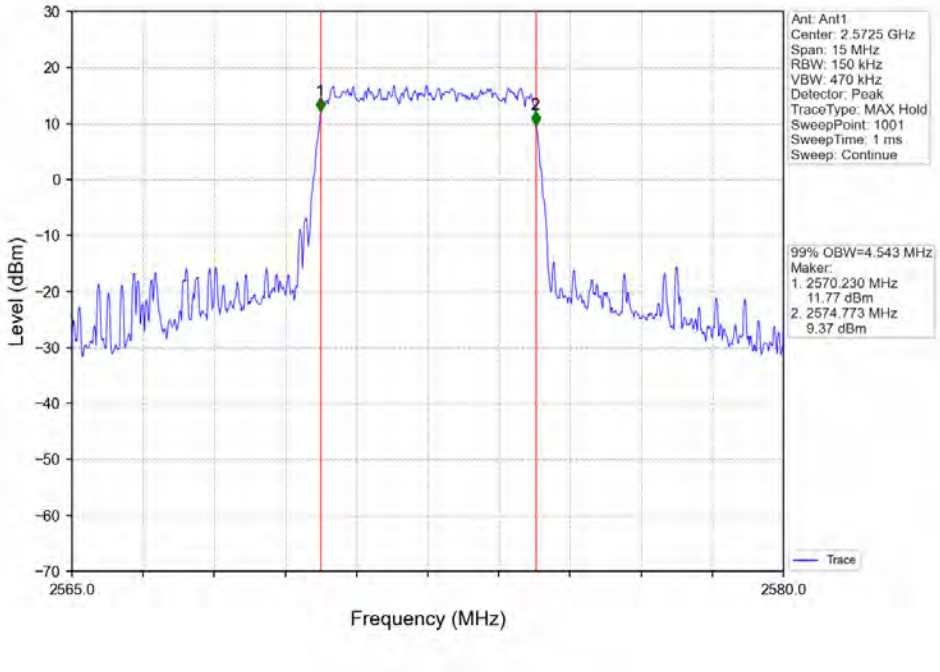
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



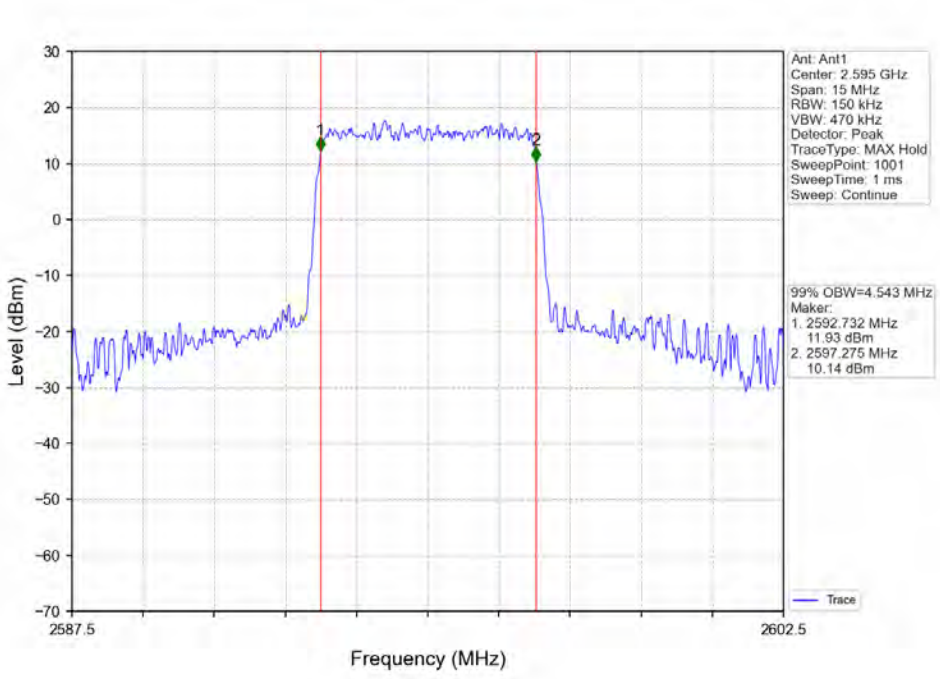
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



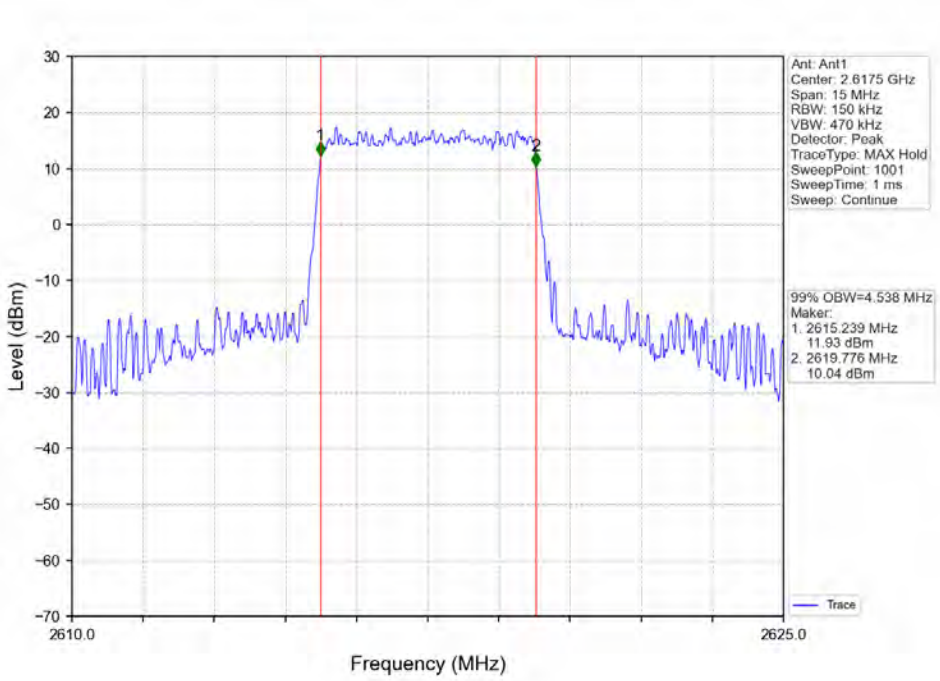
Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV



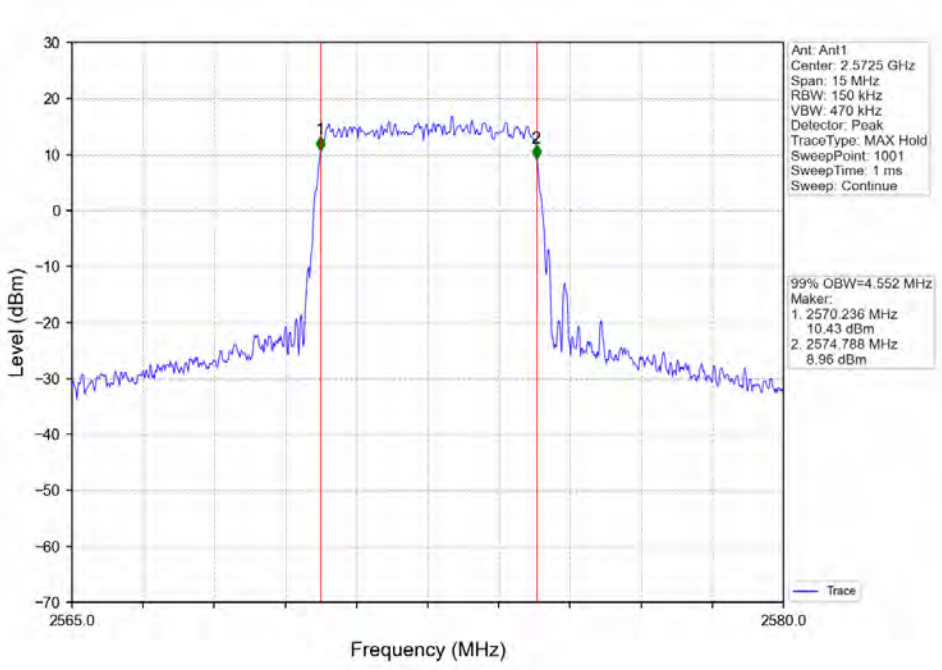
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



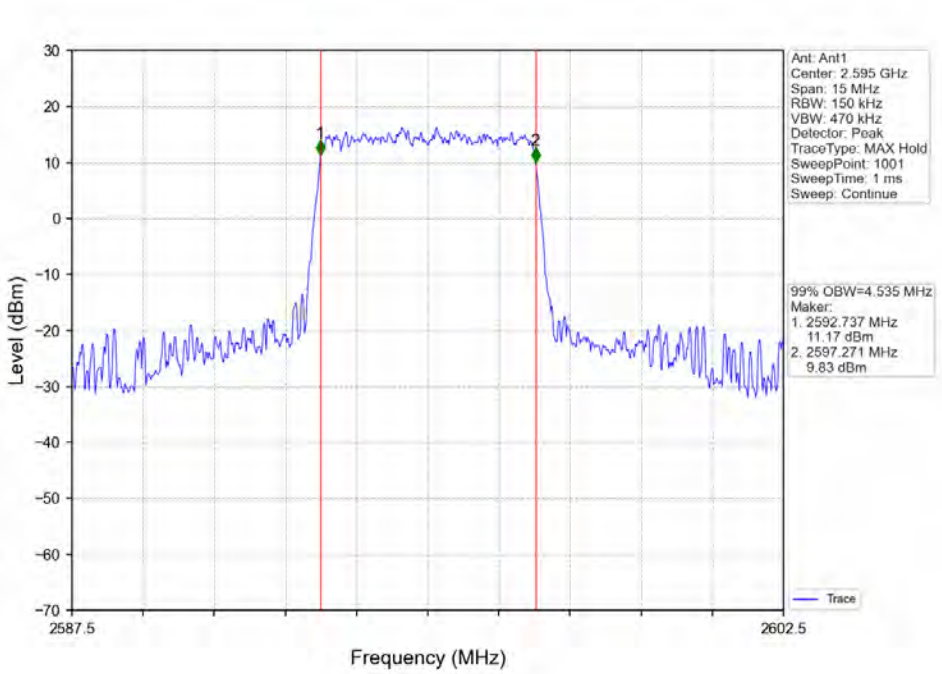
Band38_5MHz_16QAM_HCH_2617.5MHz_RB_25_0_NTNV



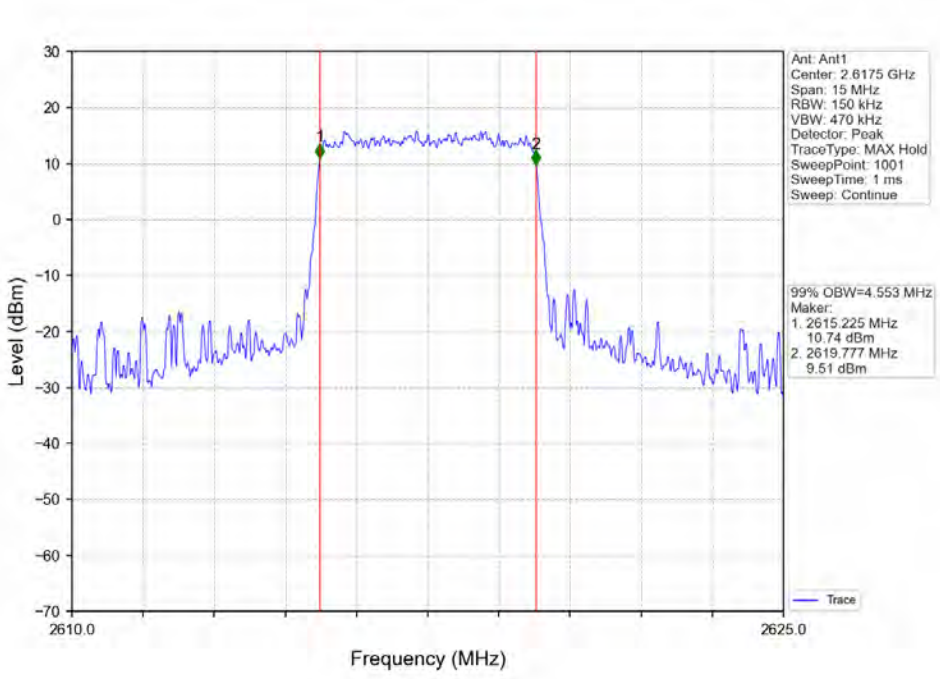
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV



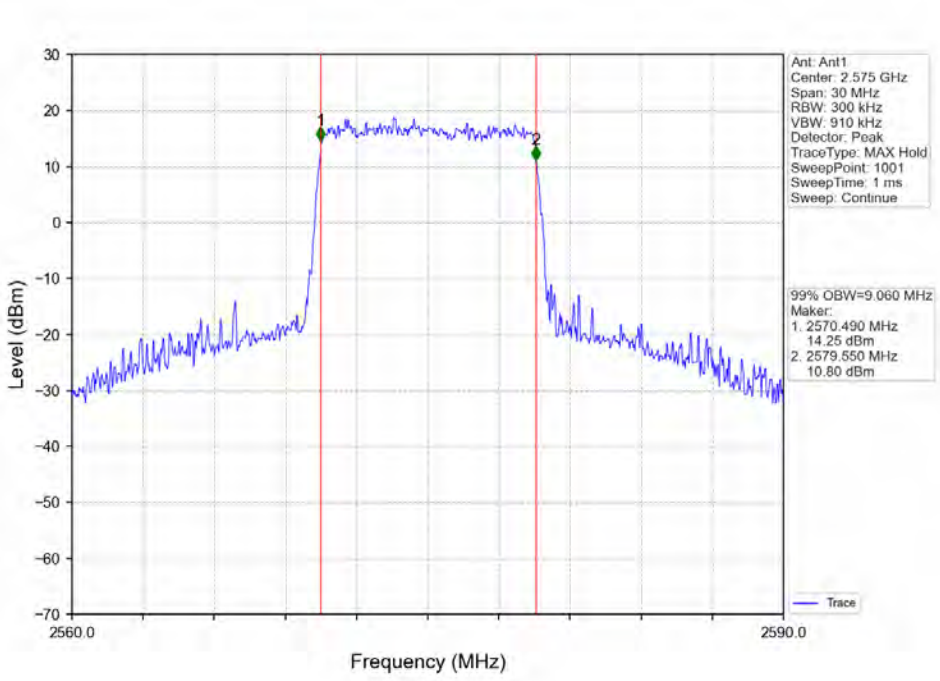
Band38_5MHz_64QAM_MCH_2595MHz_RB_25_0_NTNV



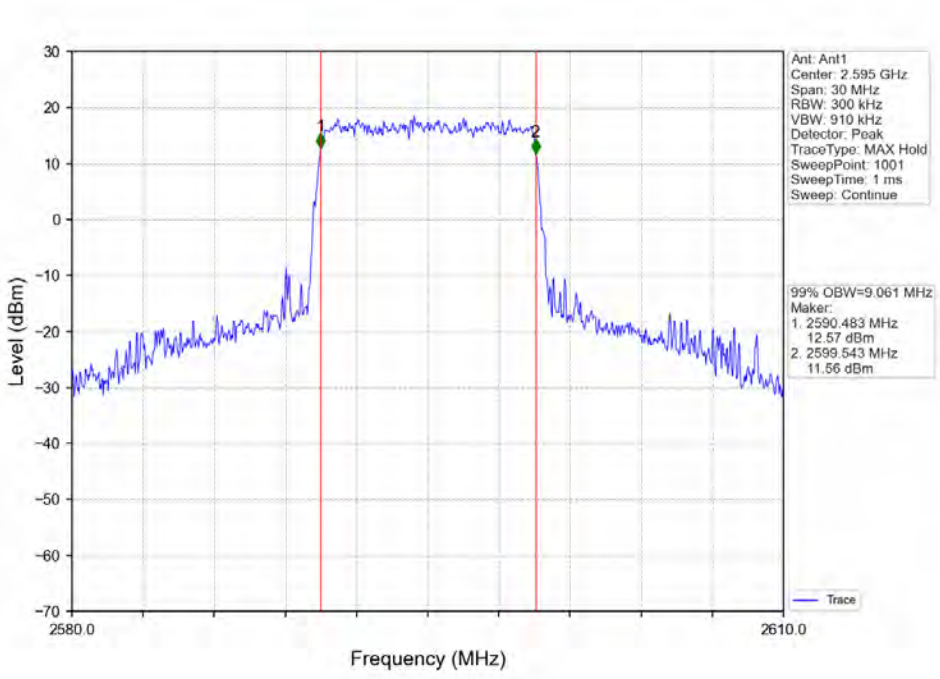
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



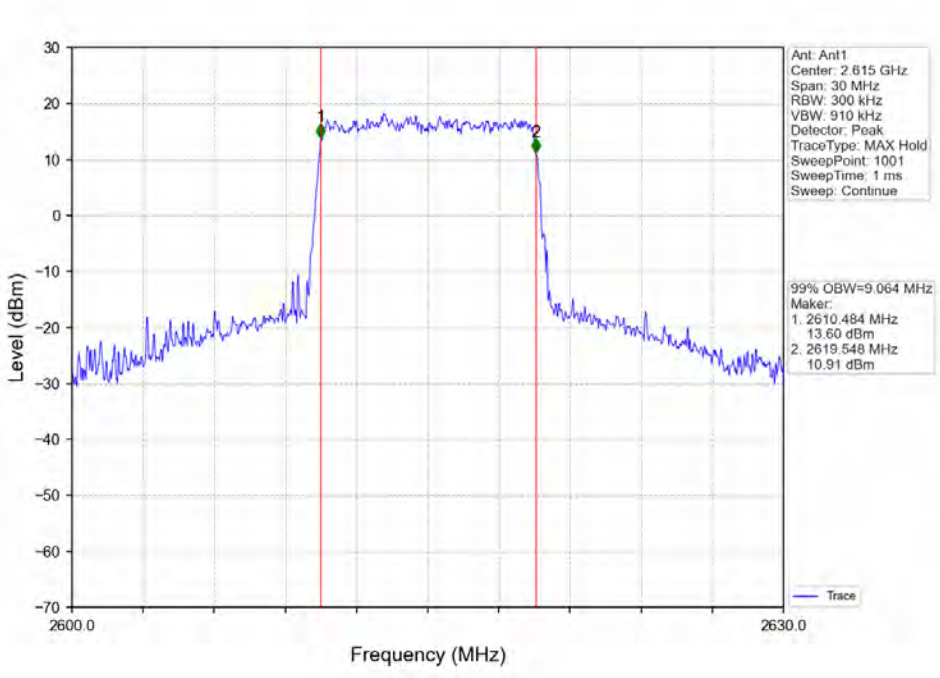
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



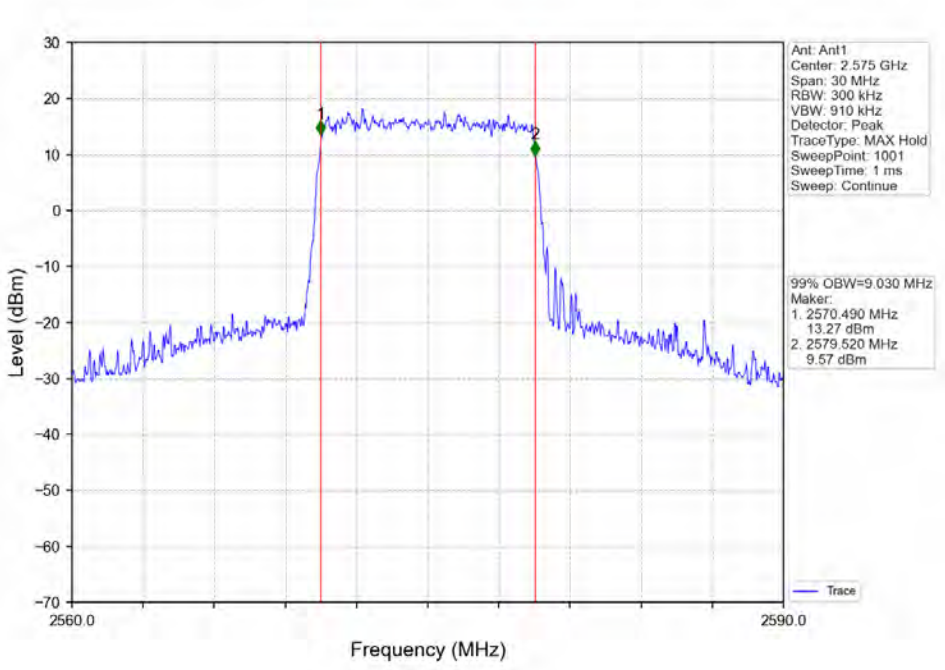
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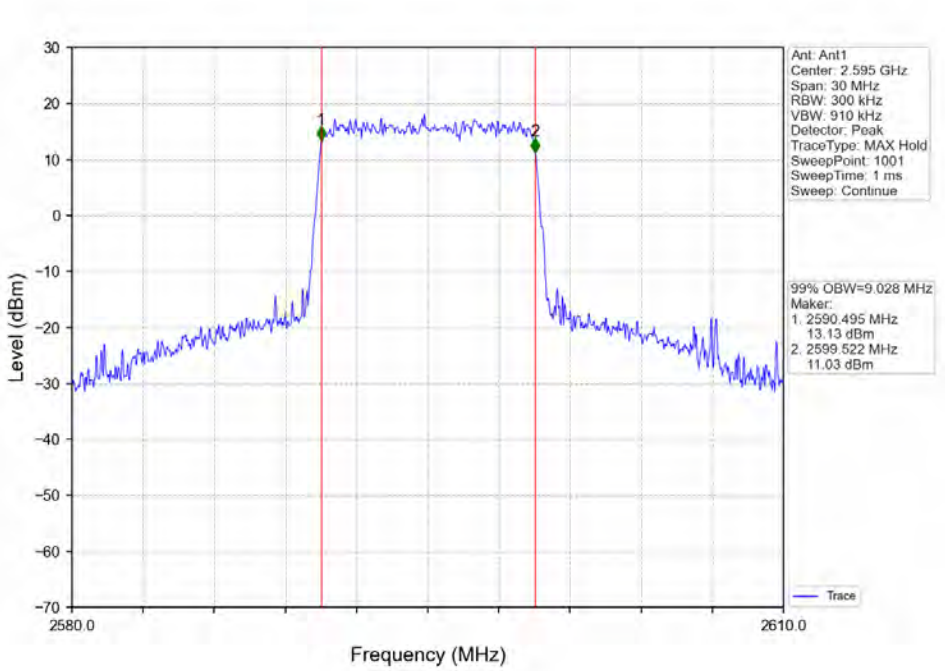
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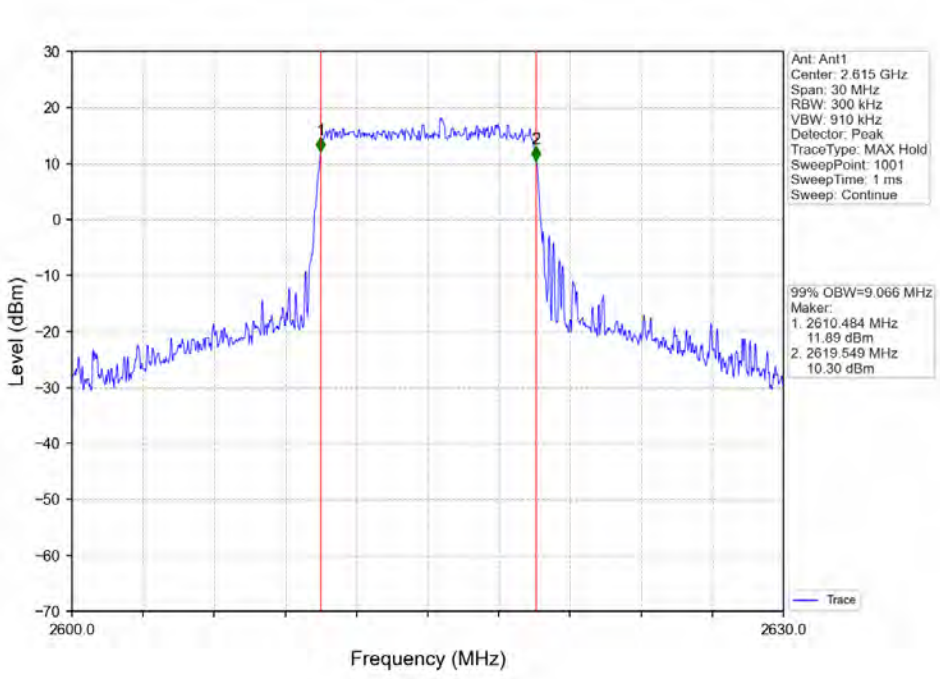
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



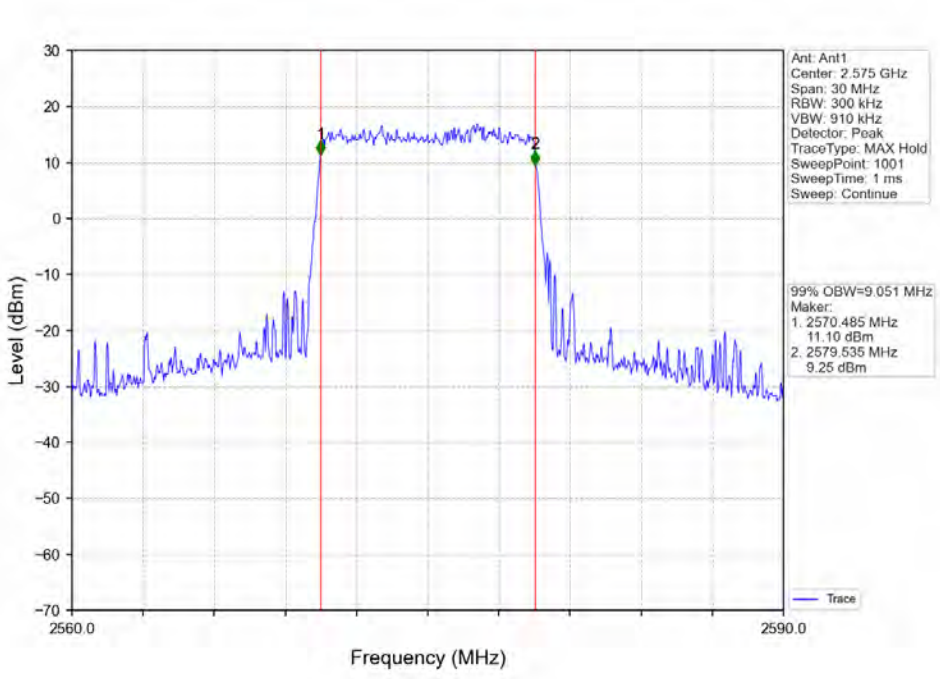
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



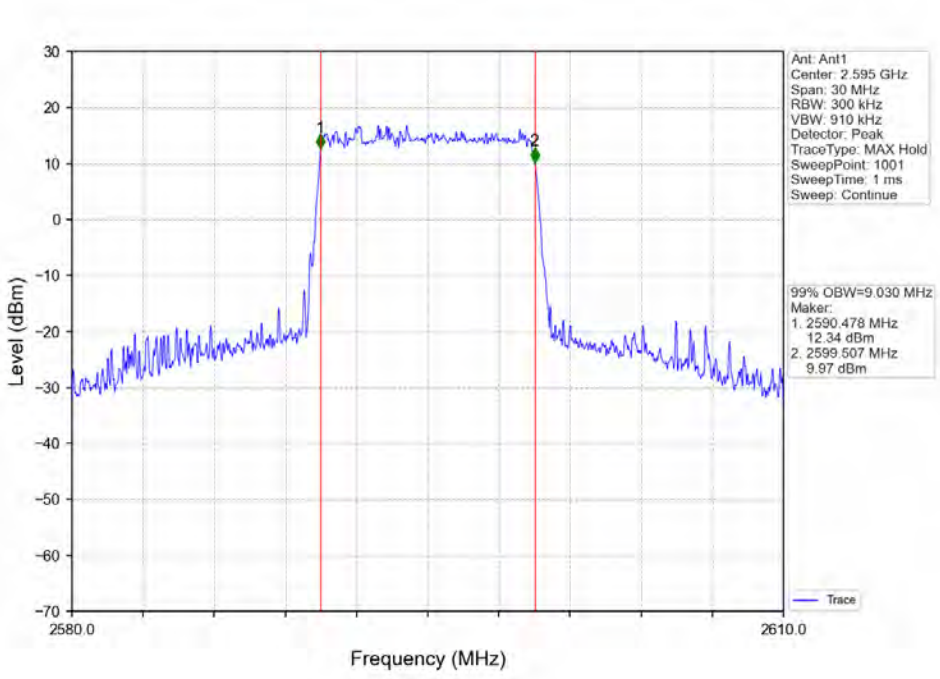
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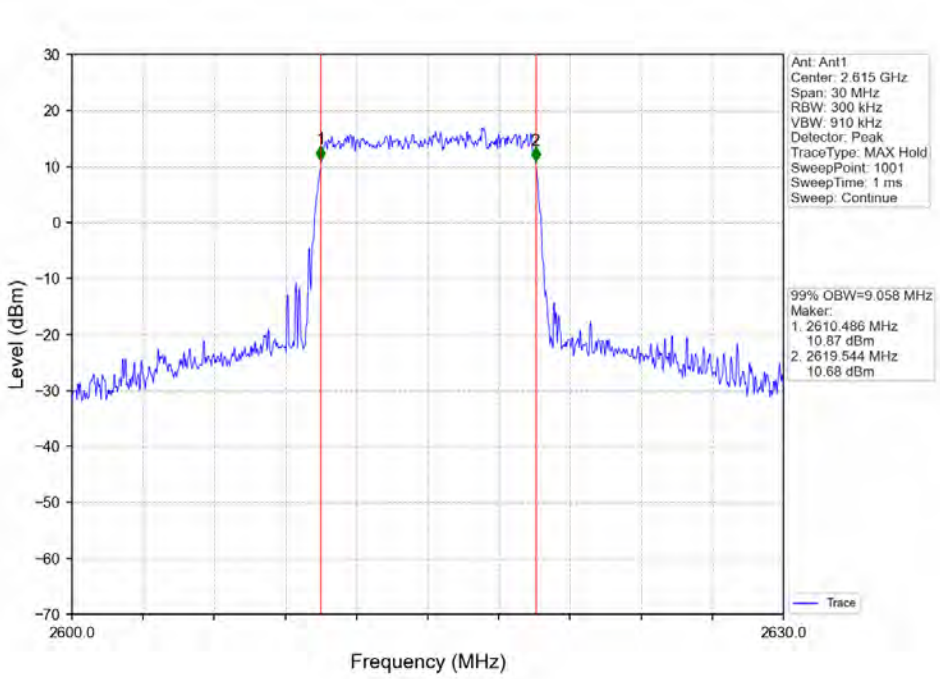
Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



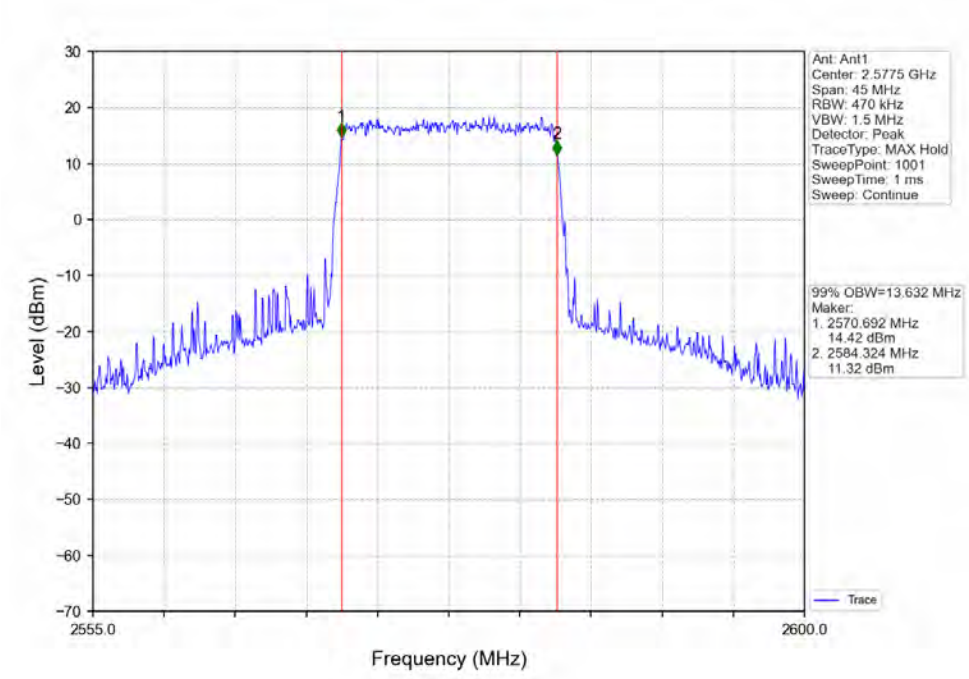
Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV



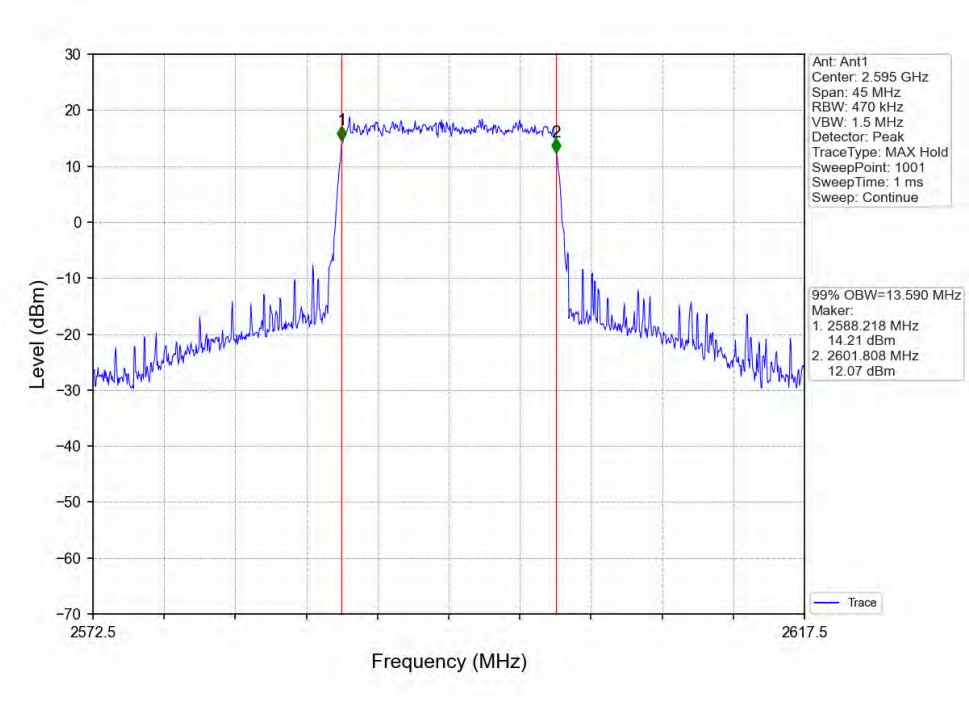
Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV



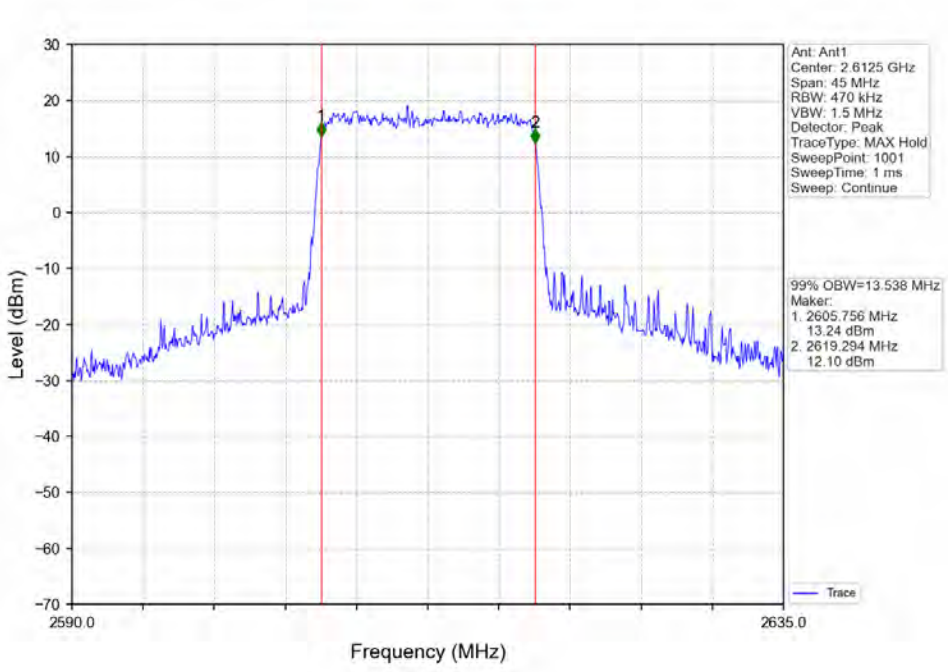
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



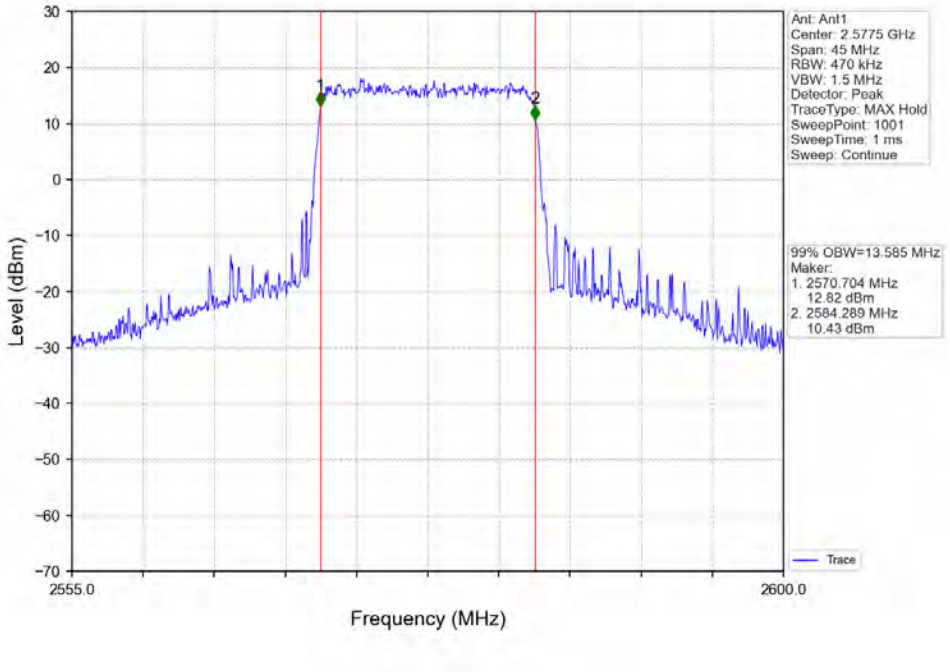
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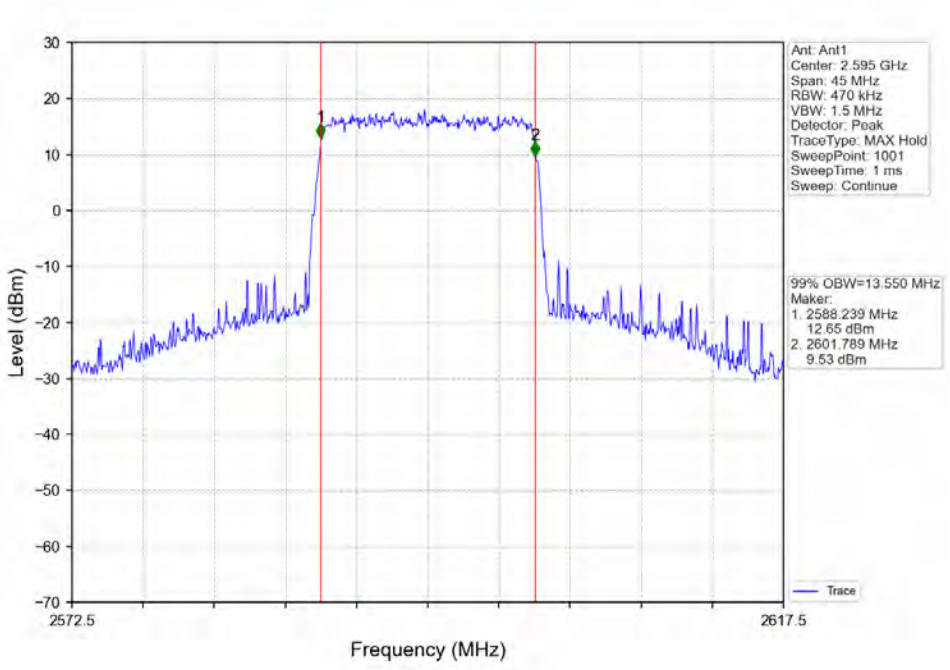
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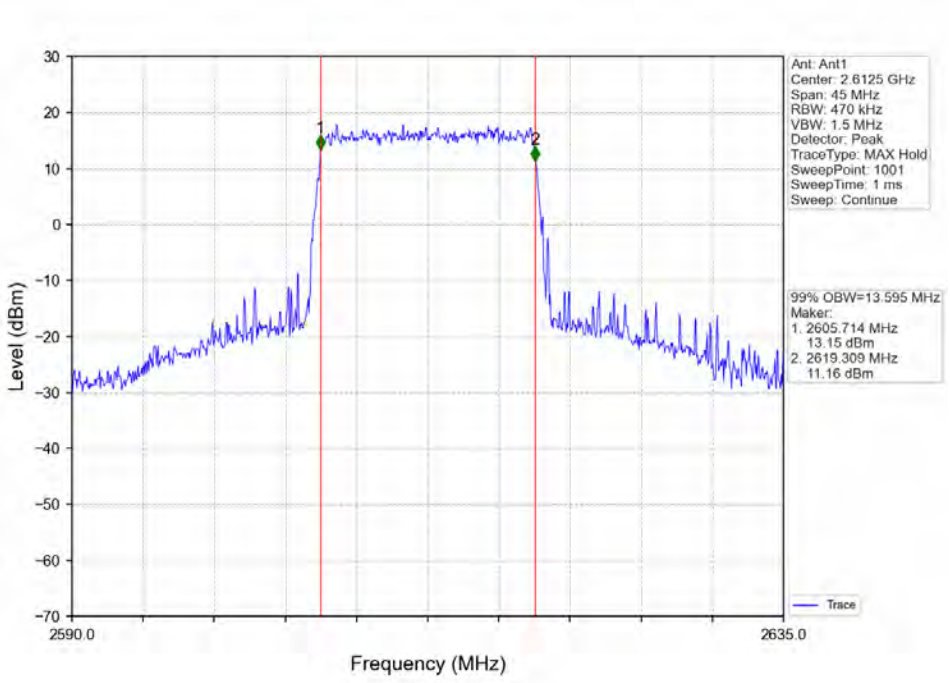
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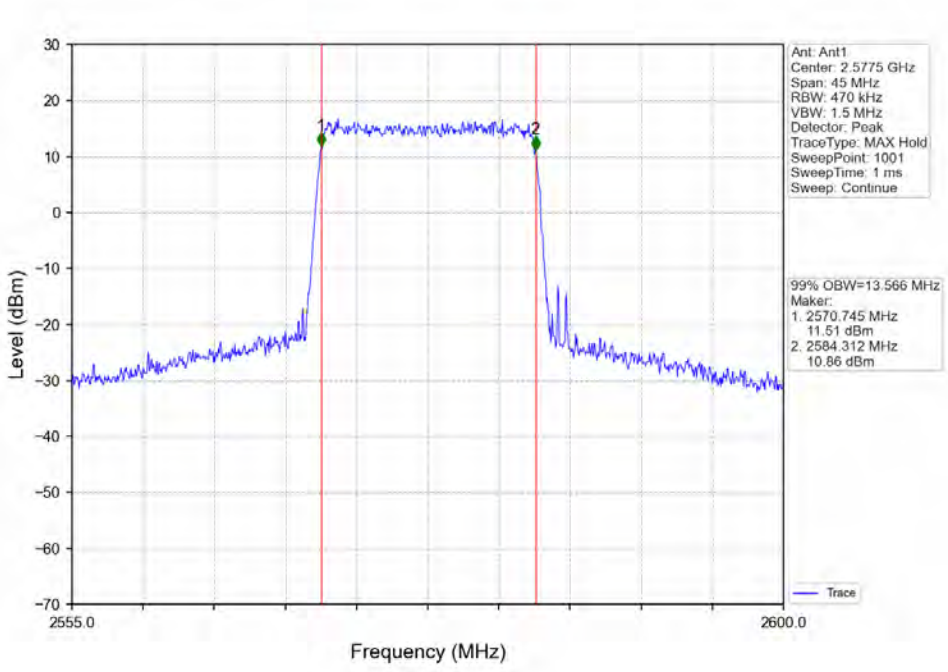
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



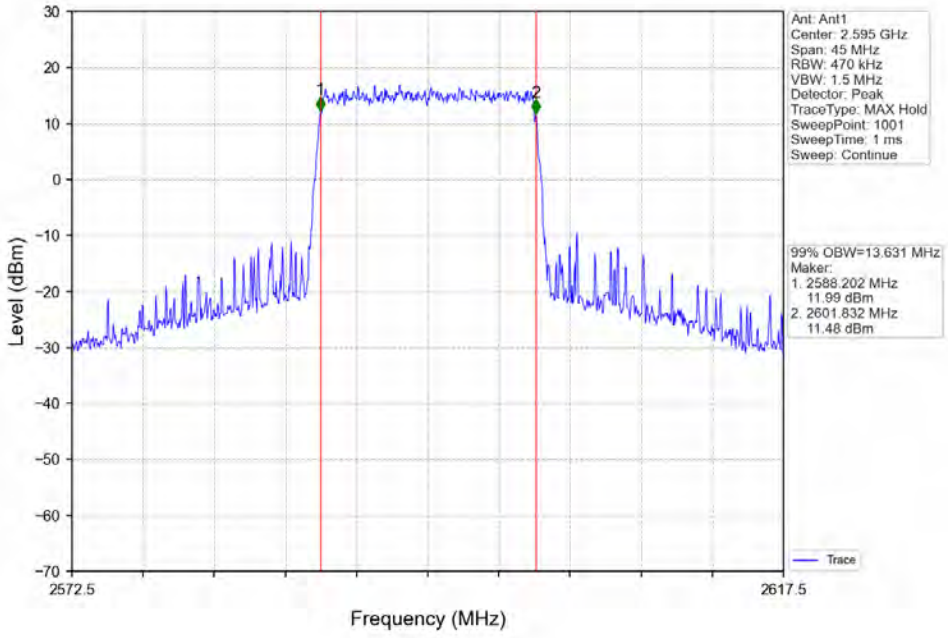
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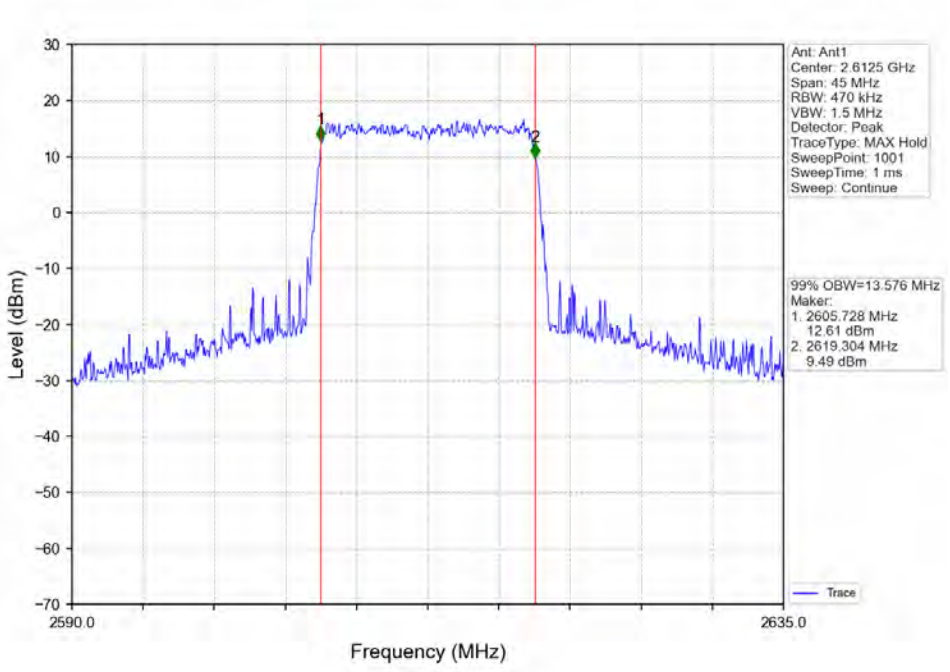
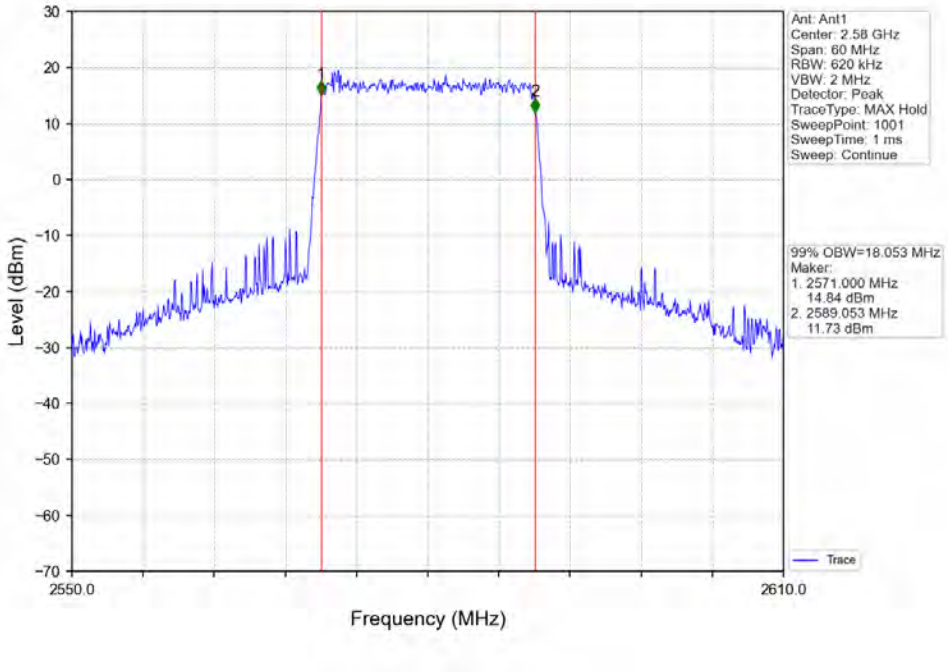


Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV

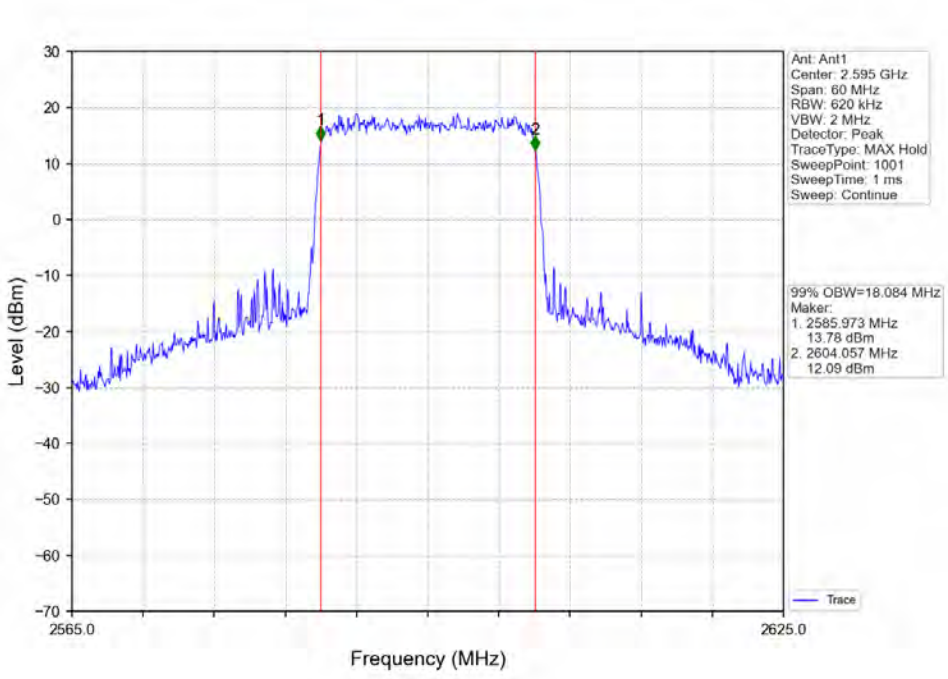


Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV

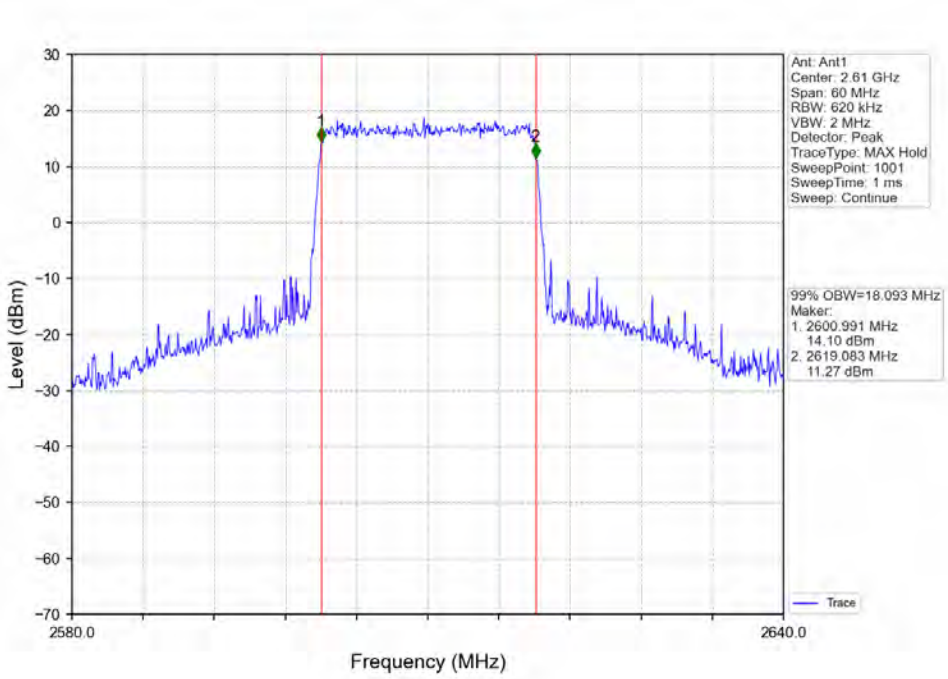


Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV

Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV


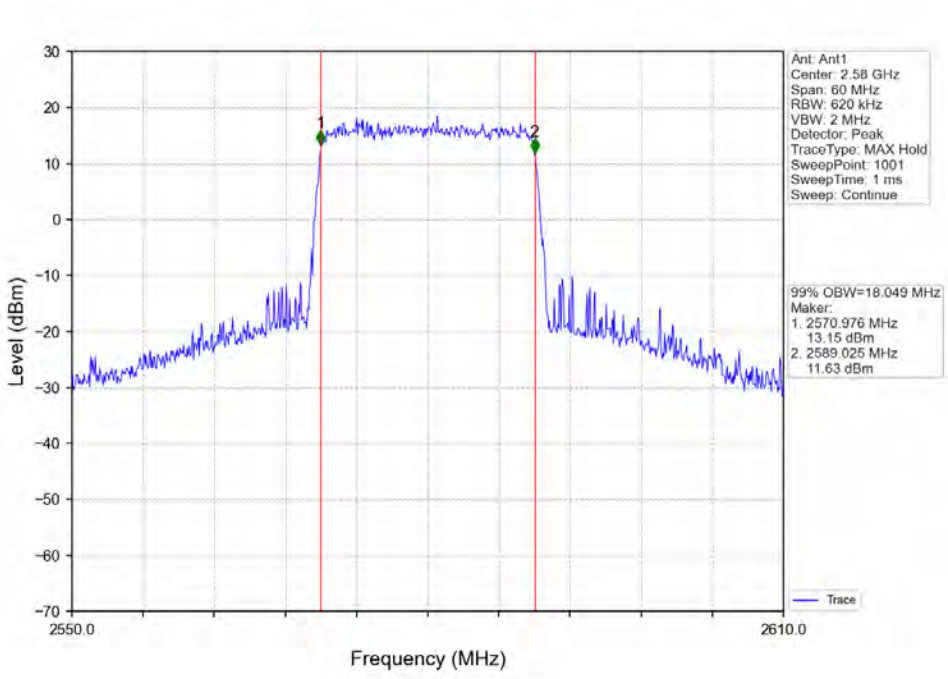
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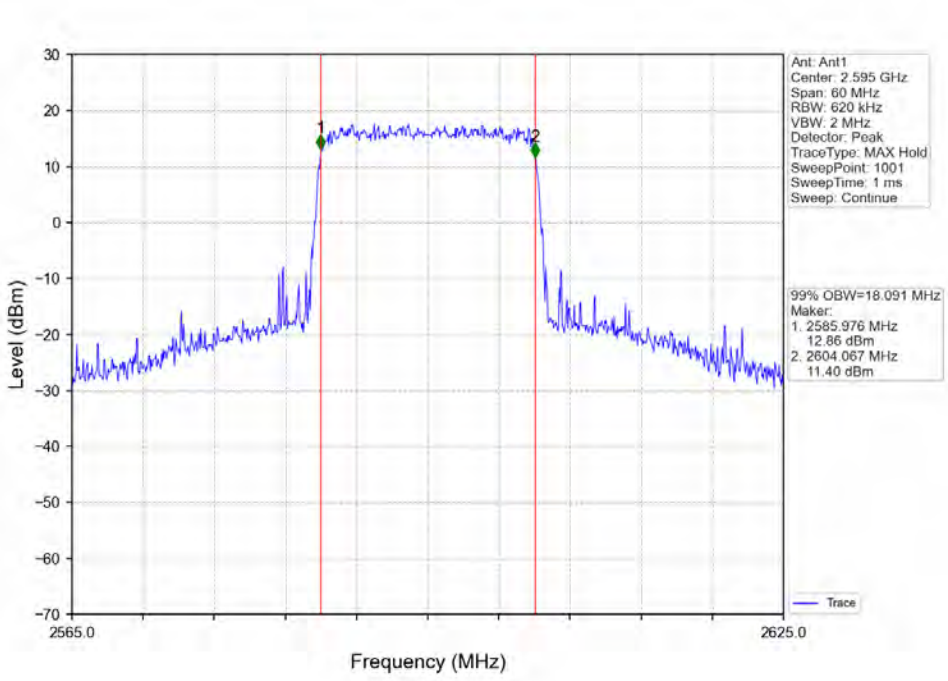
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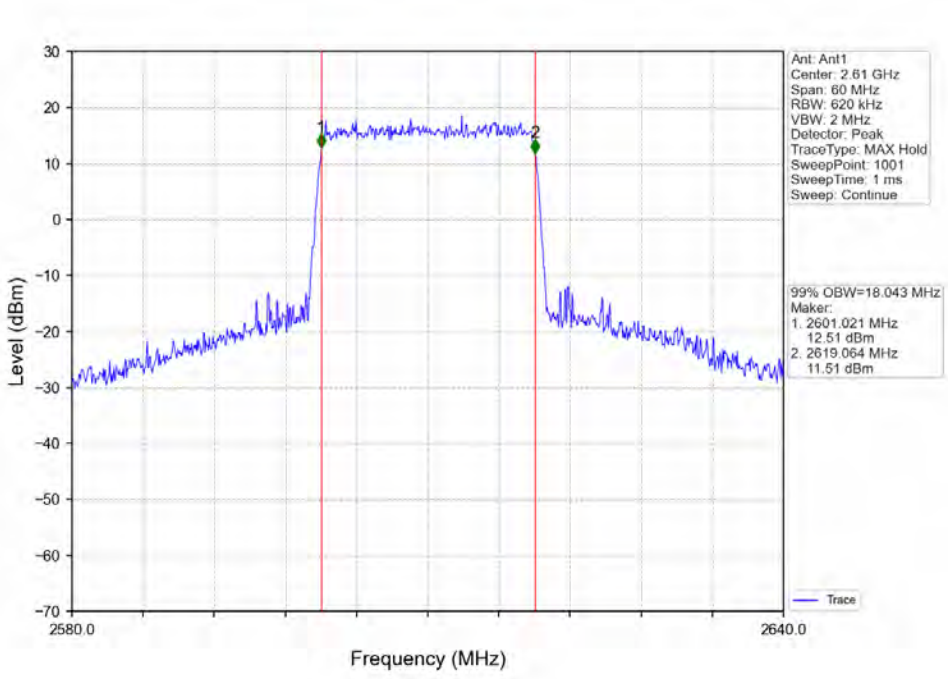
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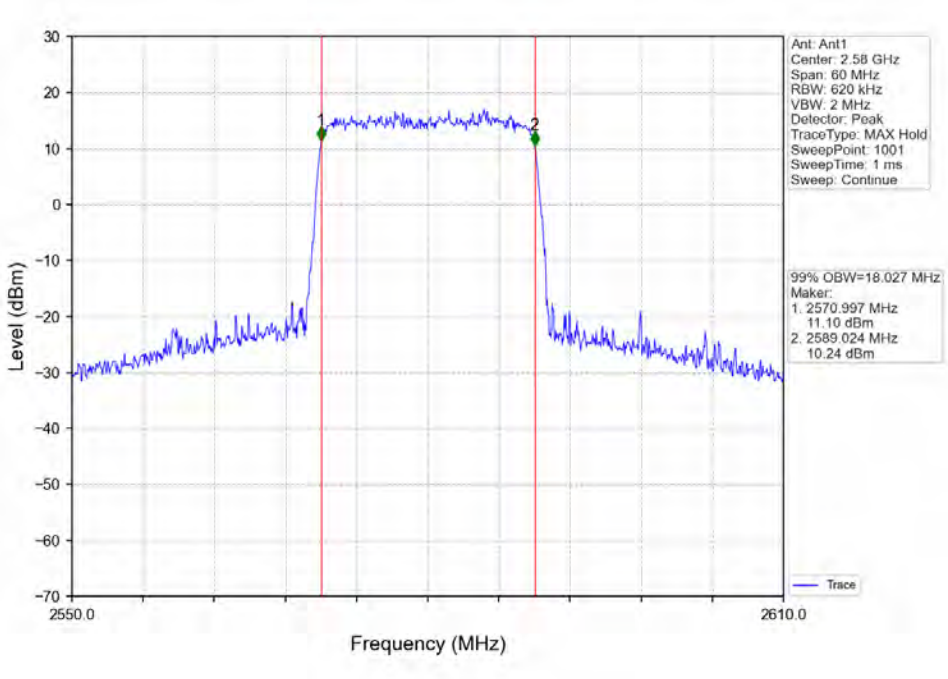
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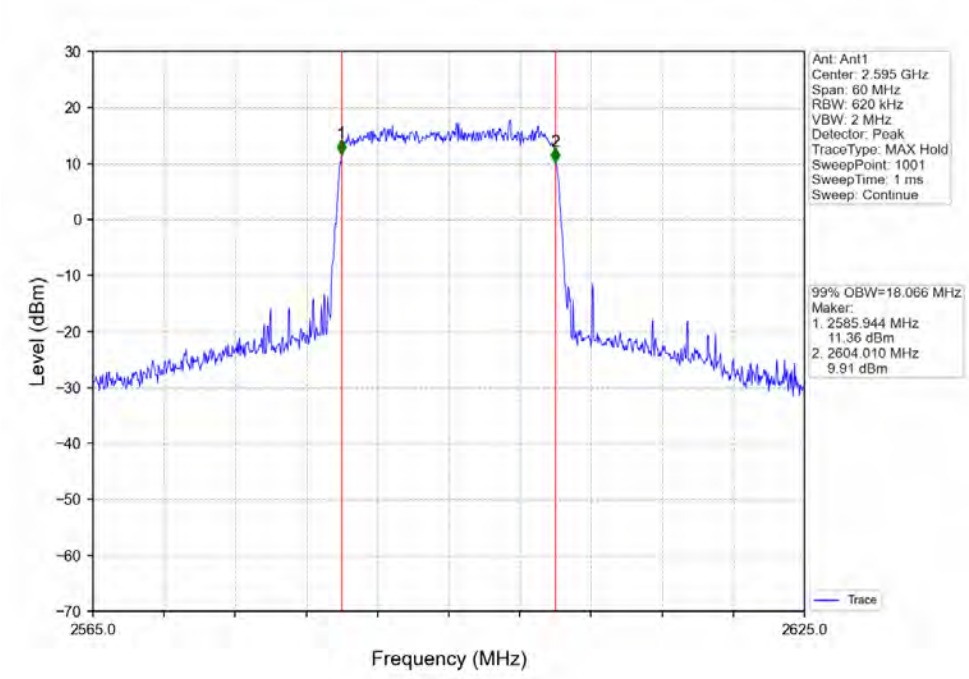
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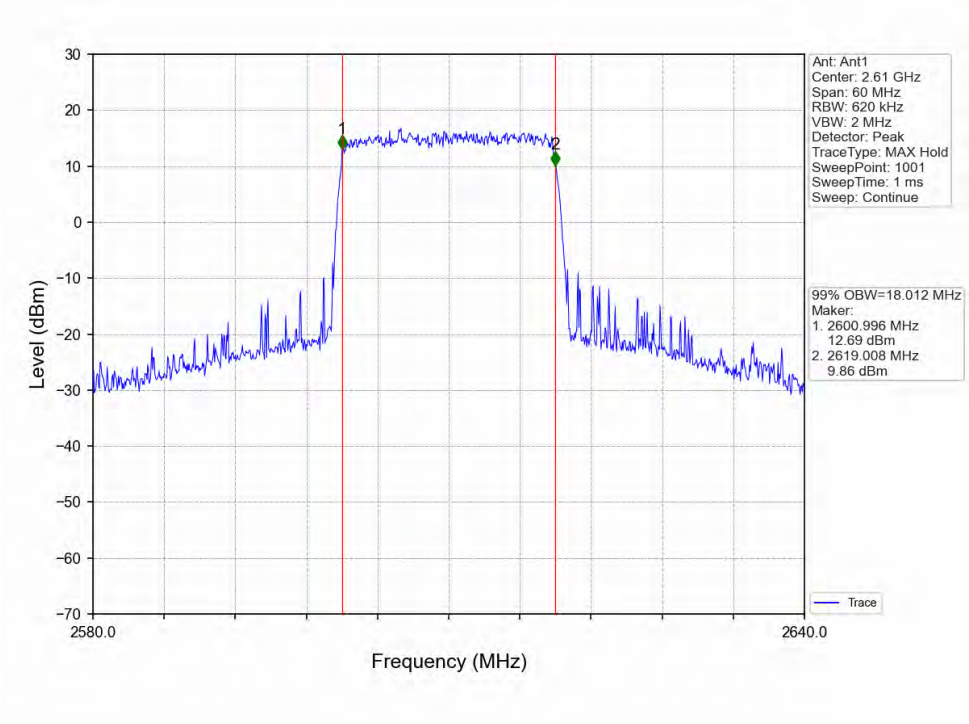
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



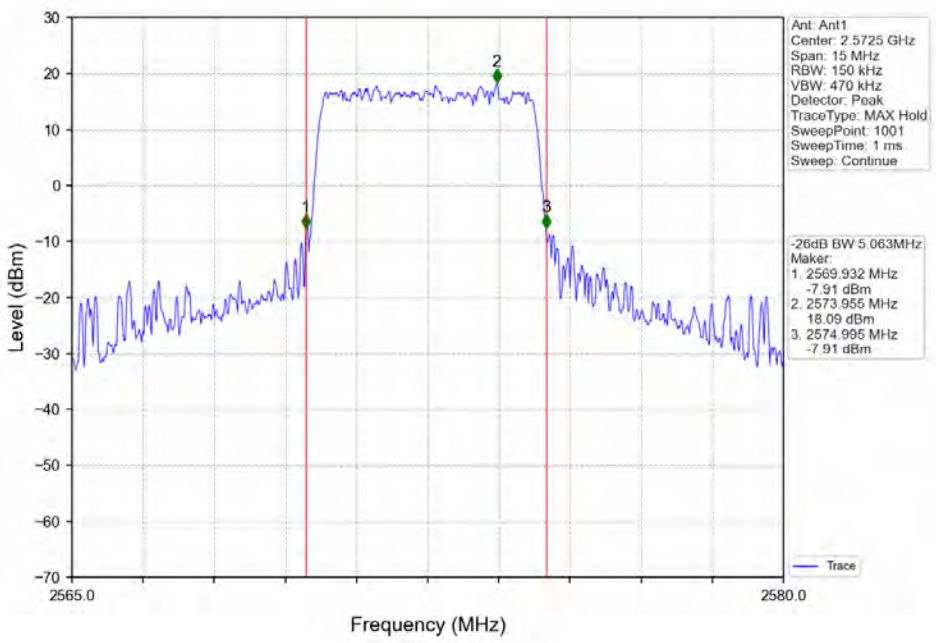
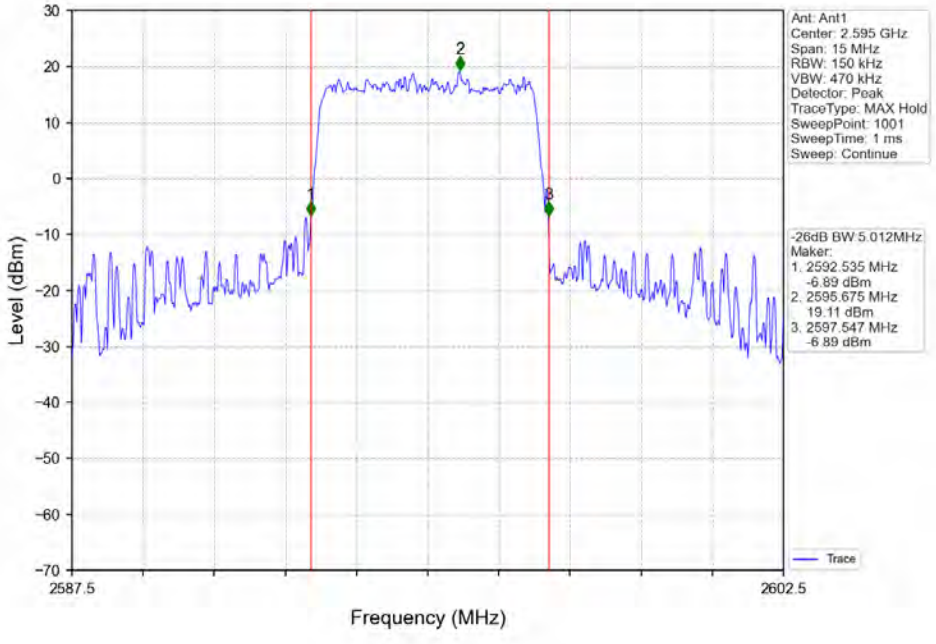
BAND38_XDB

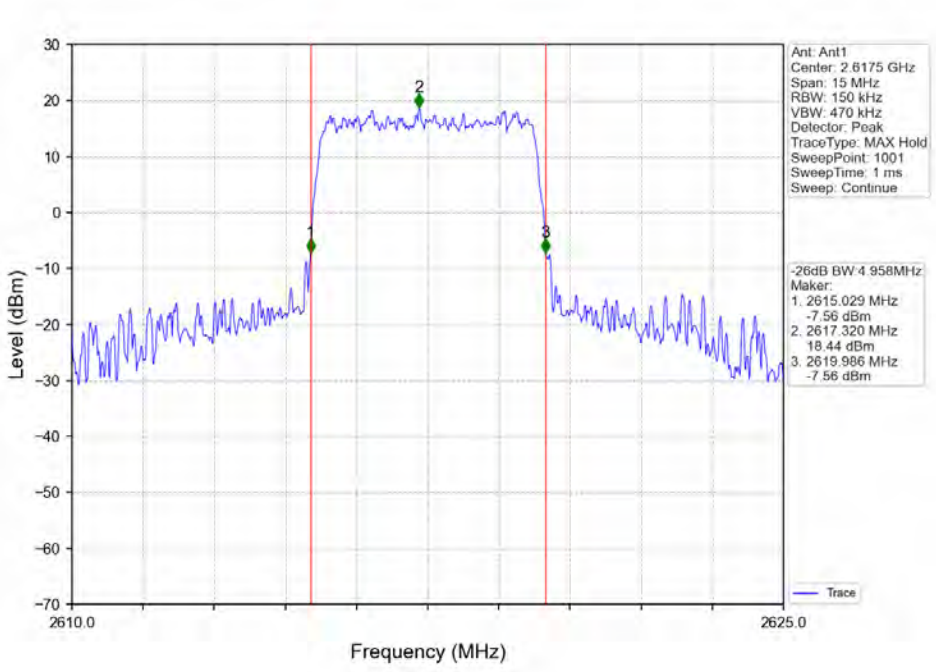
TEST RESULT

Band: 38 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2572.5	25	0	5.063	Pass
		2595	25	0	5.012	Pass
		2617.5	25	0	4.958	Pass
	16QAM	2572.5	25	0	5.211	Pass
		2595	25	0	4.936	Pass
		2617.5	25	0	5.067	Pass
	64QAM	2572.5	25	0	5.040	Pass
		2595	25	0	4.989	Pass
		2617.5	25	0	4.985	Pass
10	QPSK	2575	50	0	9.817	Pass
		2595	50	0	9.900	Pass
		2615	50	0	10.005	Pass
	16QAM	2575	50	0	9.989	Pass
		2595	50	0	9.819	Pass
		2615	50	0	10.540	Pass
	64QAM	2575	50	0	10.110	Pass
		2595	50	0	9.930	Pass
		2615	50	0	9.946	Pass
15	QPSK	2577.5	75	0	15.257	Pass
		2595	75	0	15.031	Pass
		2612.5	75	0	14.798	Pass
	16QAM	2577.5	75	0	15.495	Pass
		2595	75	0	14.841	Pass
		2612.5	75	0	15.087	Pass

	64QAM	2577.5	75	0	14.741	Pass
		2595	75	0	14.715	Pass
		2612.5	75	0	15.099	Pass
20	QPSK	2580	100	0	19.615	Pass
		2595	100	0	19.658	Pass
		2610	100	0	20.243	Pass
	16QAM	2580	100	0	19.714	Pass
		2595	100	0	22.194	Pass
		2610	100	0	19.563	Pass
	64QAM	2580	100	0	19.699	Pass
		2595	100	0	19.576	Pass
		2610	100	0	20.729	Pass

TEST GRAPH

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV

Band38_5MHz_16QAM_LCH_2572.5MHz_RB_25_0_NTNV
