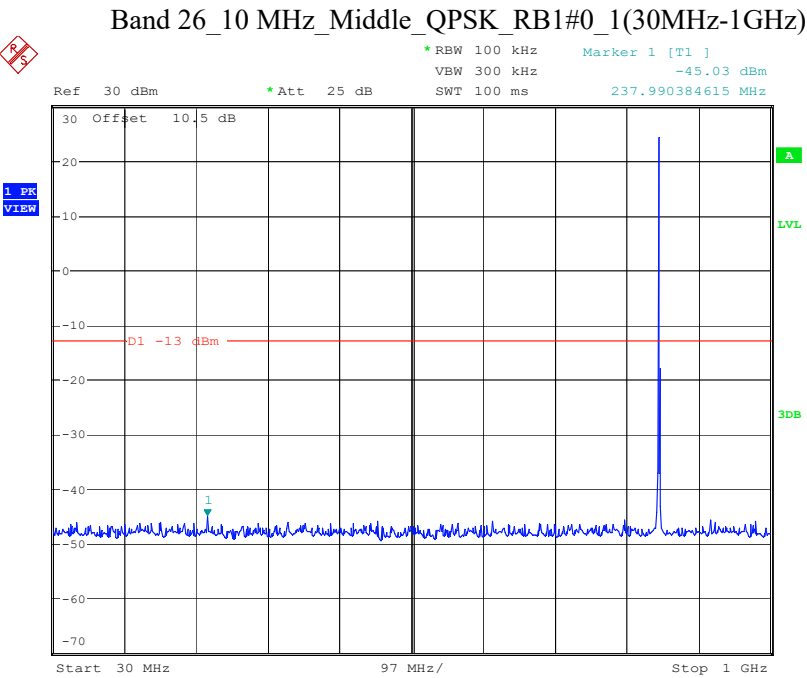
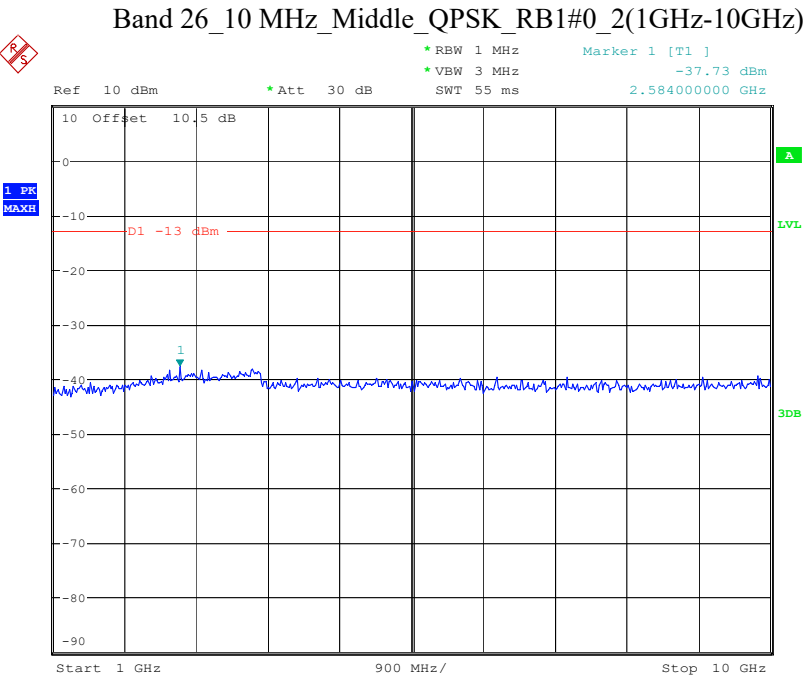


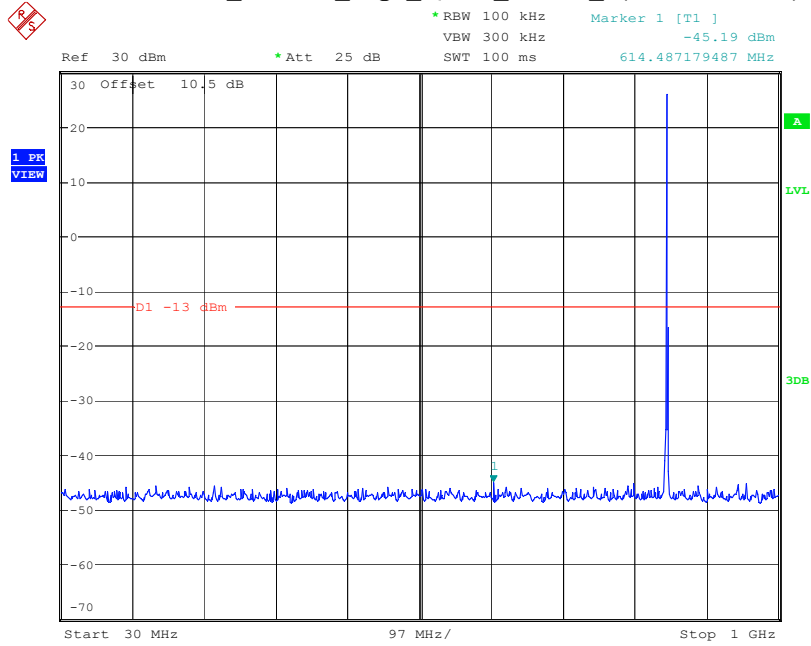


ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 26.JUL.2024 01:53:53



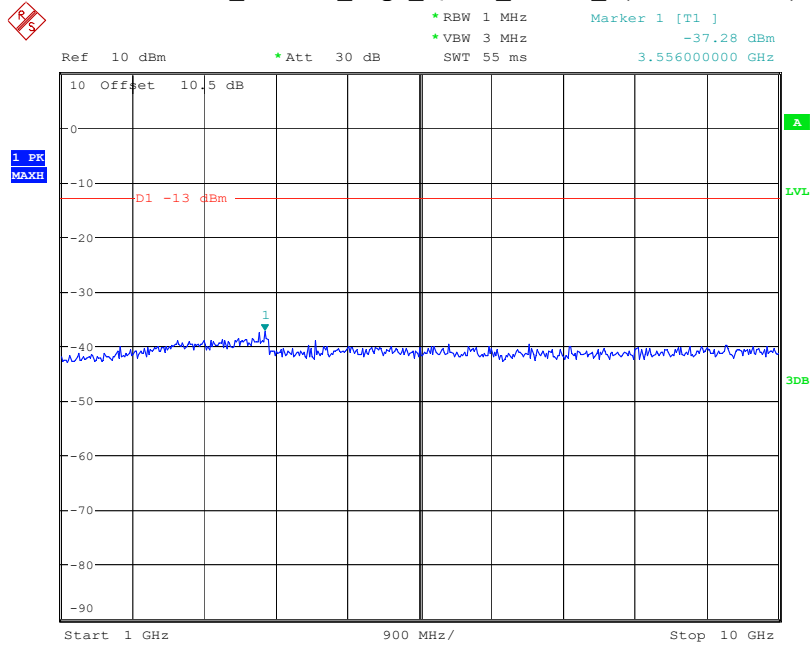
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:25:27

Band 26_10 MHz_High_QPSK_RB1#0_1(30MHz-1GHz)



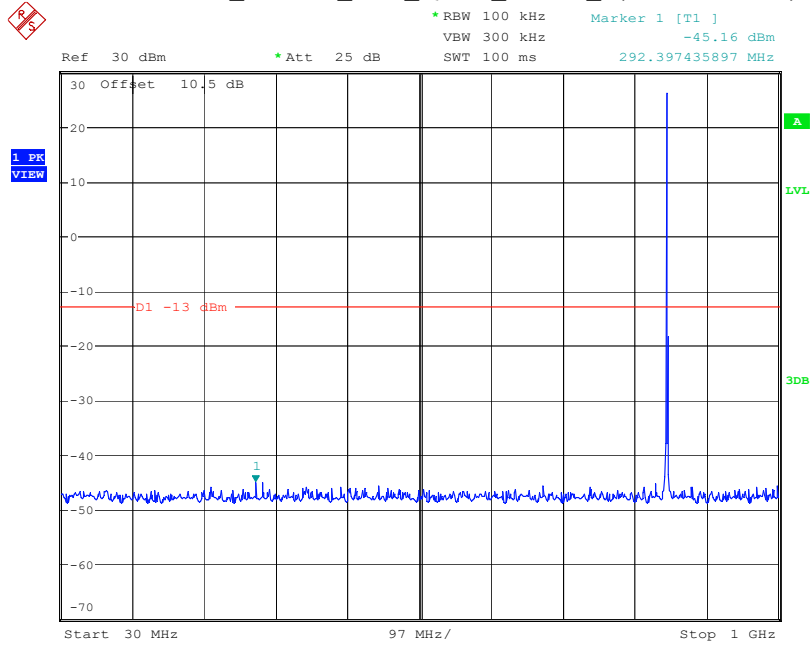
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 26.JUL.2024 01:54:26

Band 26_10 MHz_High_QPSK_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:25:53

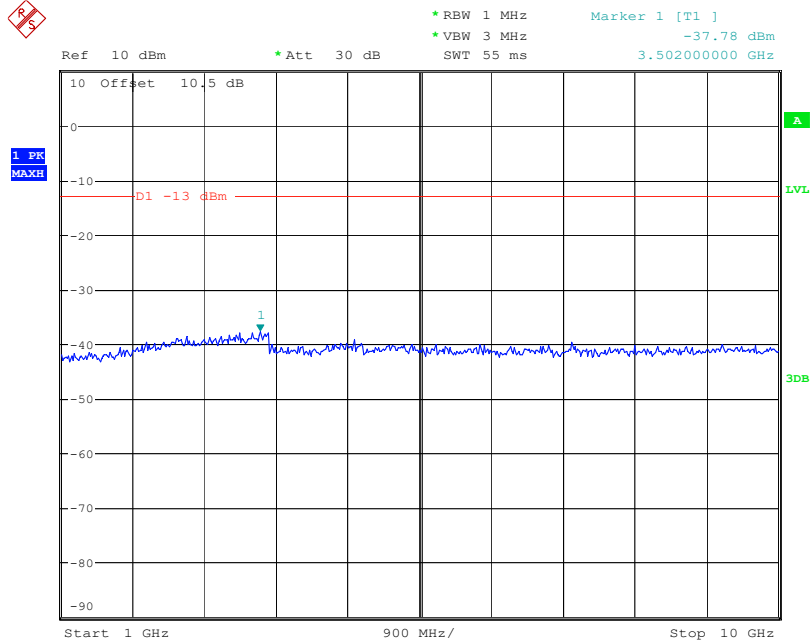
Band 26_15 MHz_Low_QPSK_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

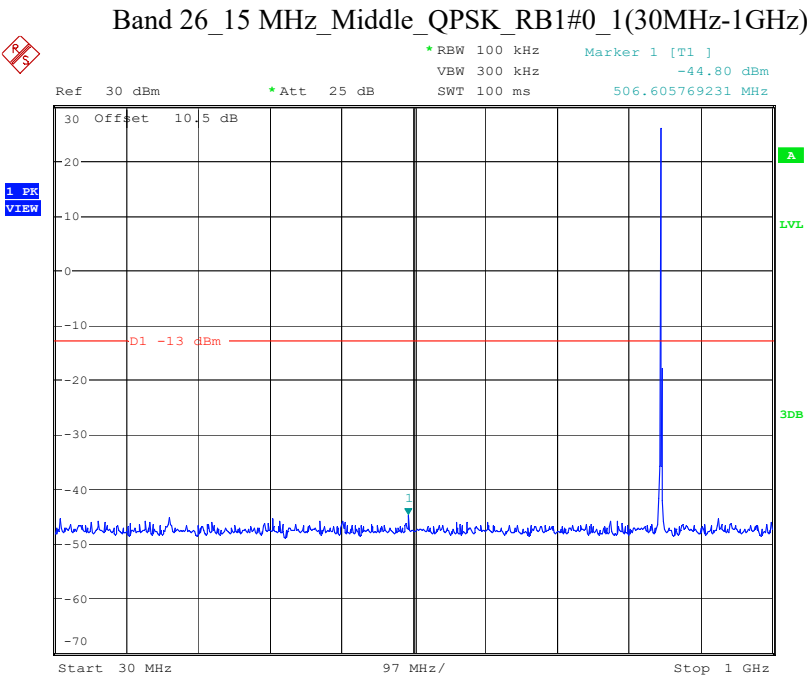
Date: 26.JUL.2024 01:55:14

Band 26_15 MHz_Low_QPSK_RB1#0_2(1GHz-10GHz)

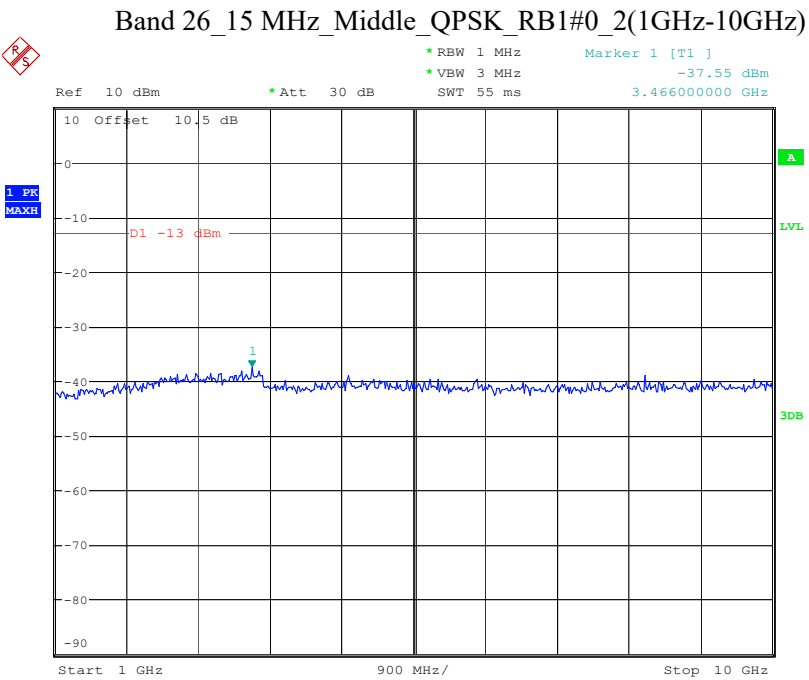


ProjectNo.:2401S24086-RF Tester:Allen Bai

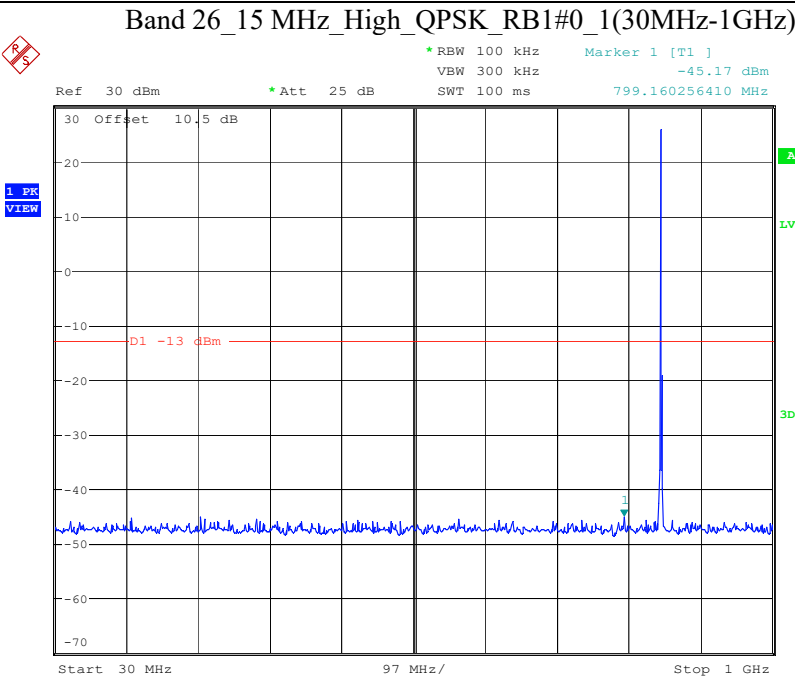
Date: 25.JUL.2024 21:26:50



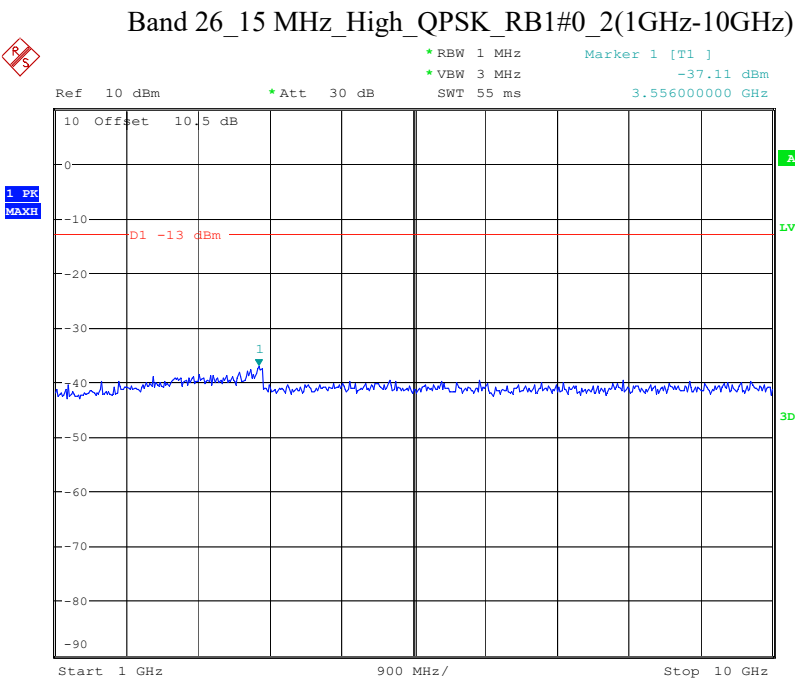
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 26.JUL.2024 01:55:43



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:27:16

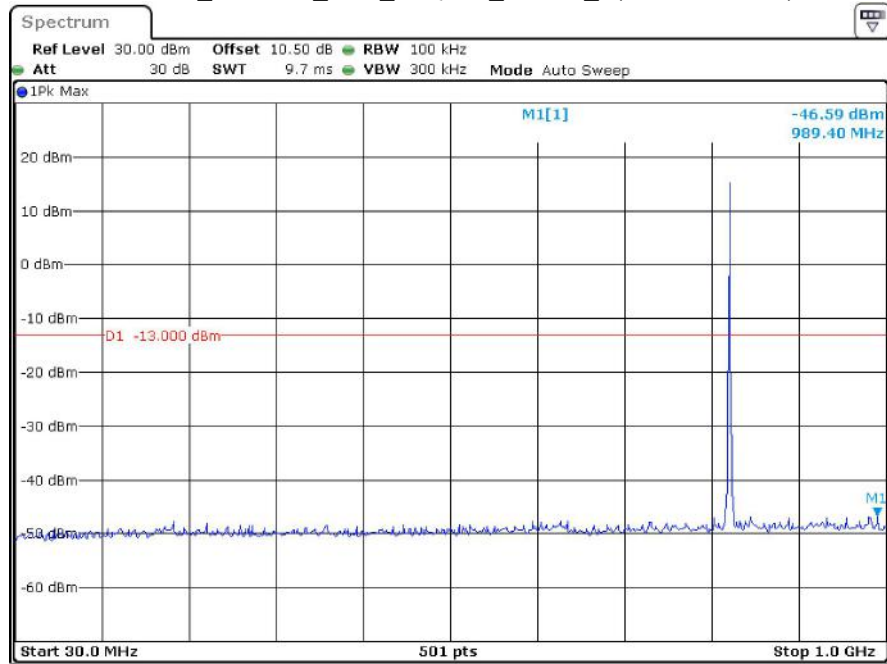


ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 26.JUL.2024 01:56:23



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:27:39

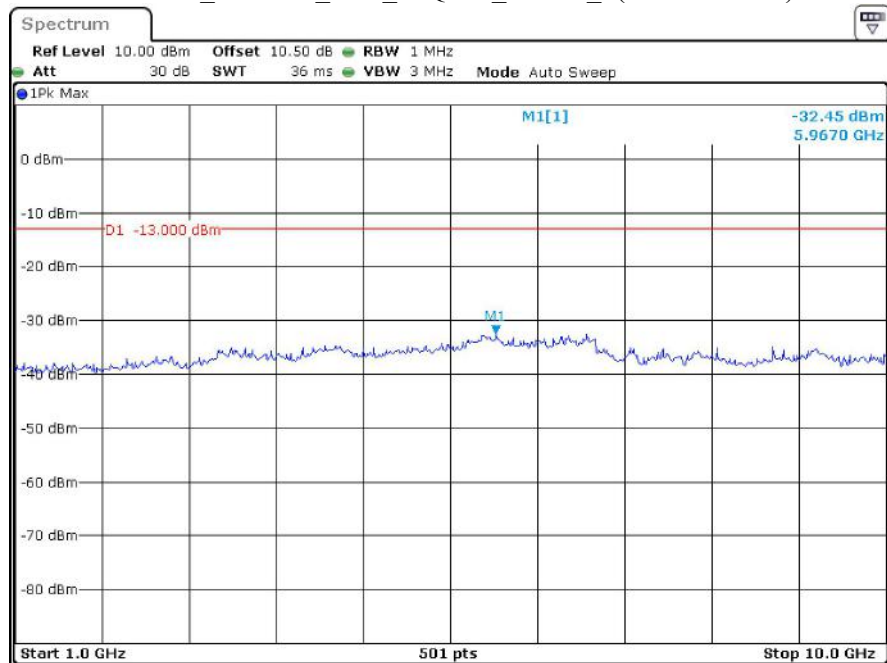
Band 26_1.4 MHz_Low_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:35:31

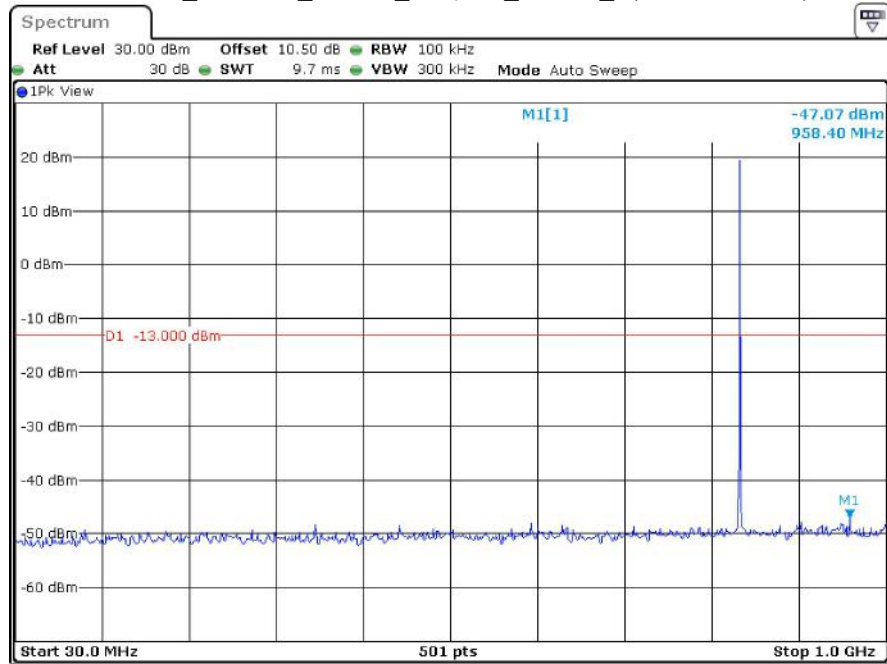
Band 26_1.4 MHz_Low_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:36:00

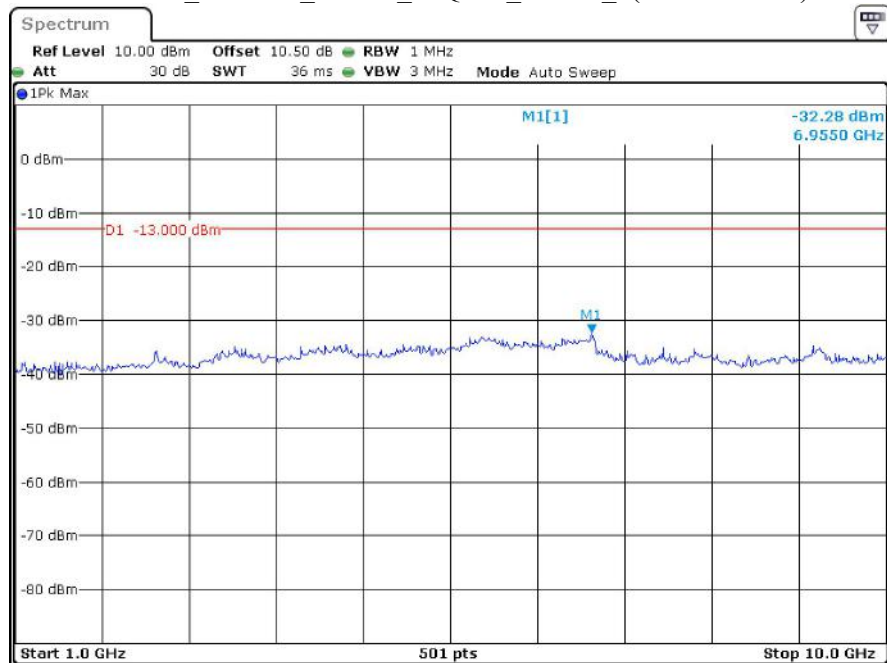
Band 26_1.4 MHz_Middle_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:35:13

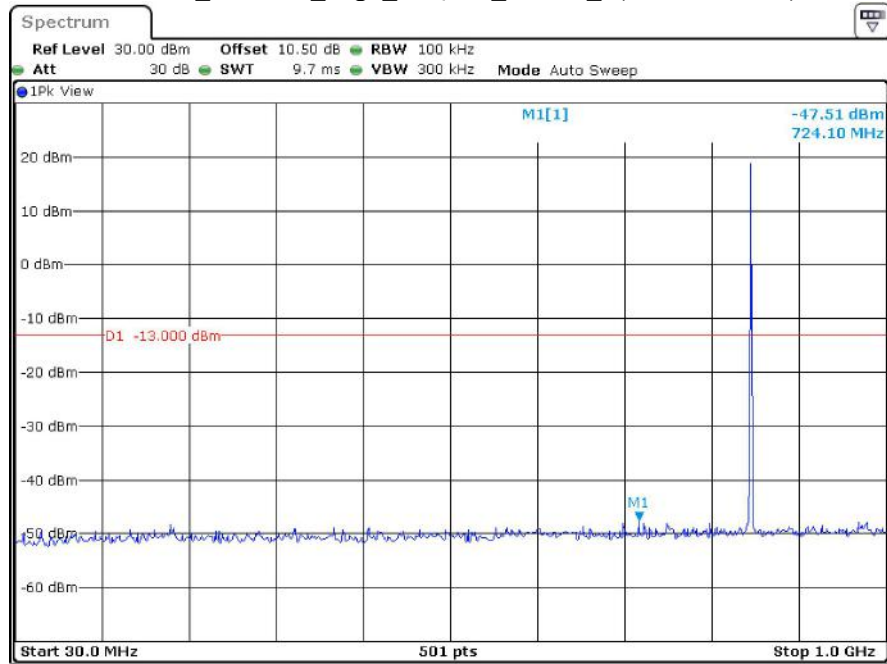
Band 26_1.4 MHz_Middle_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:36:53

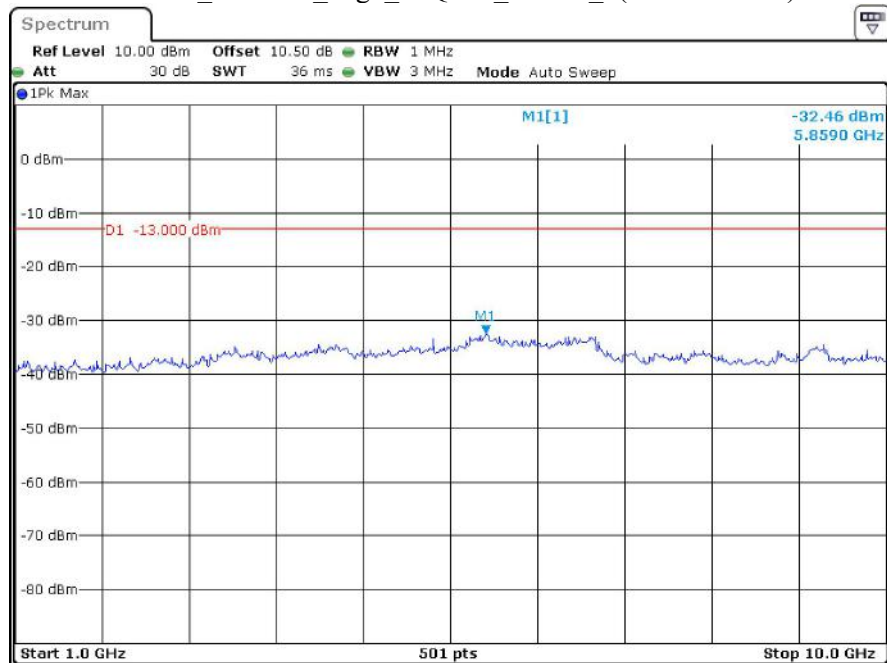
Band 26_1.4 MHz_High_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:35:48

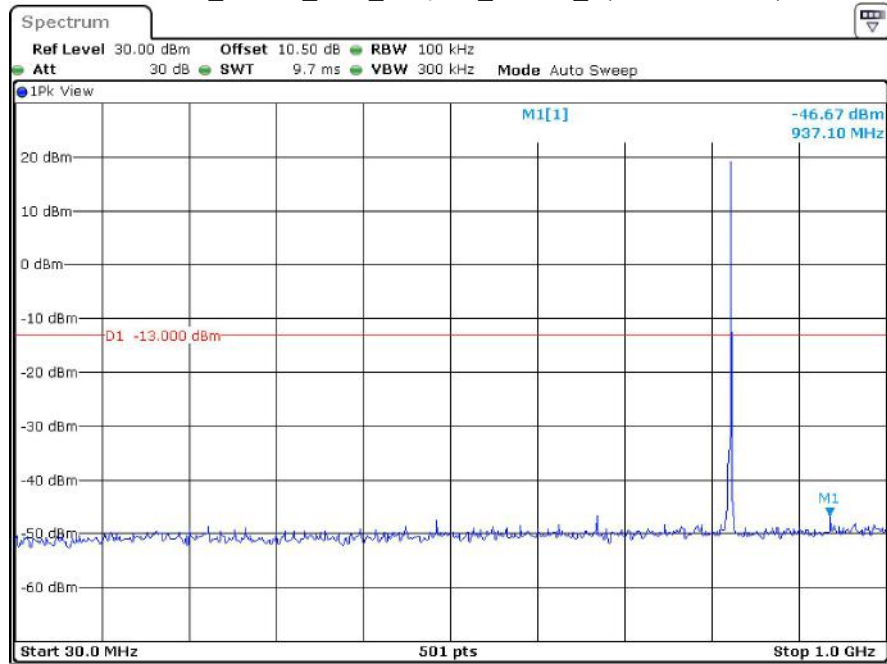
Band 26_1.4 MHz_High_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:37:49

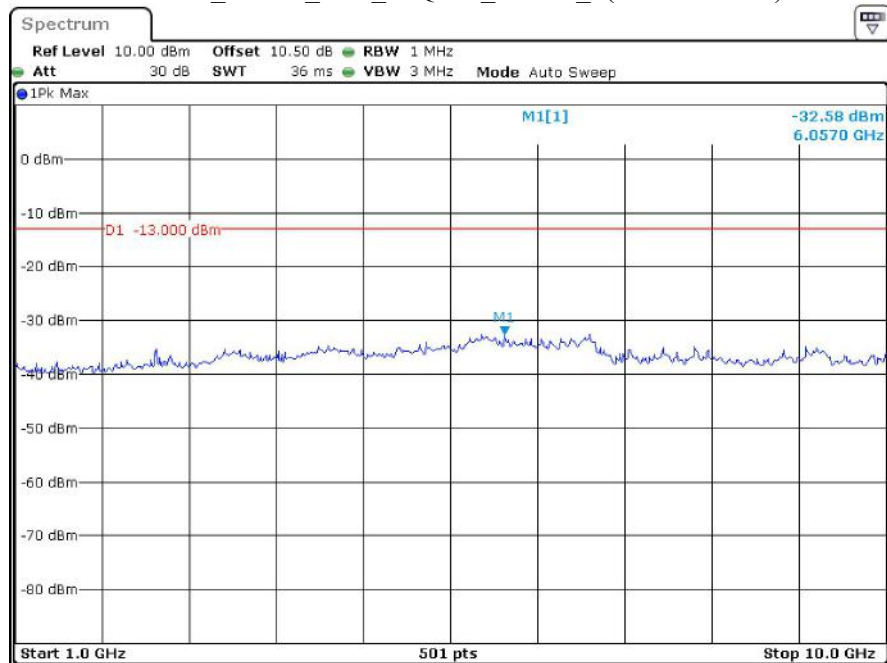
Band 26_3 MHz_Low_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:36:19

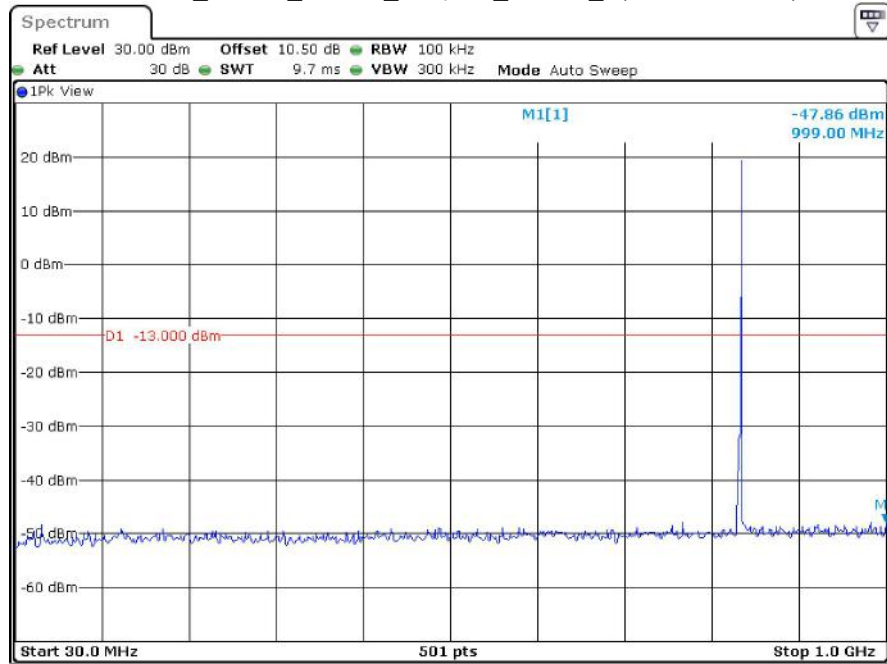
Band 26_3 MHz_Low_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

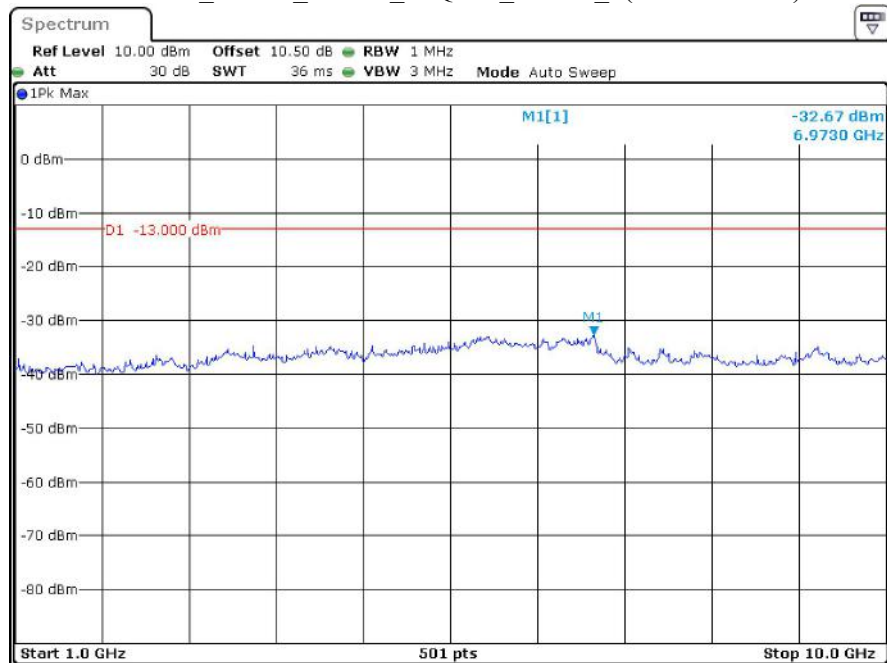
Date: 7.AUG.2024 01:39:12

Band 26_3 MHz_Middle_16QAM_RB1#0_1(30MHz-1GHz)



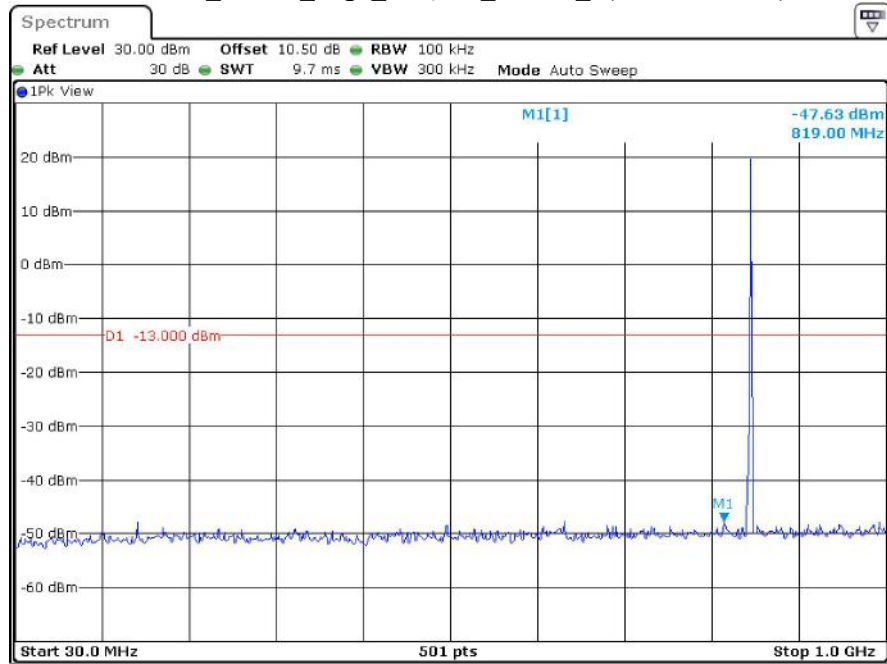
ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 02:36:44

Band 26_3 MHz_Middle_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 01:40:05

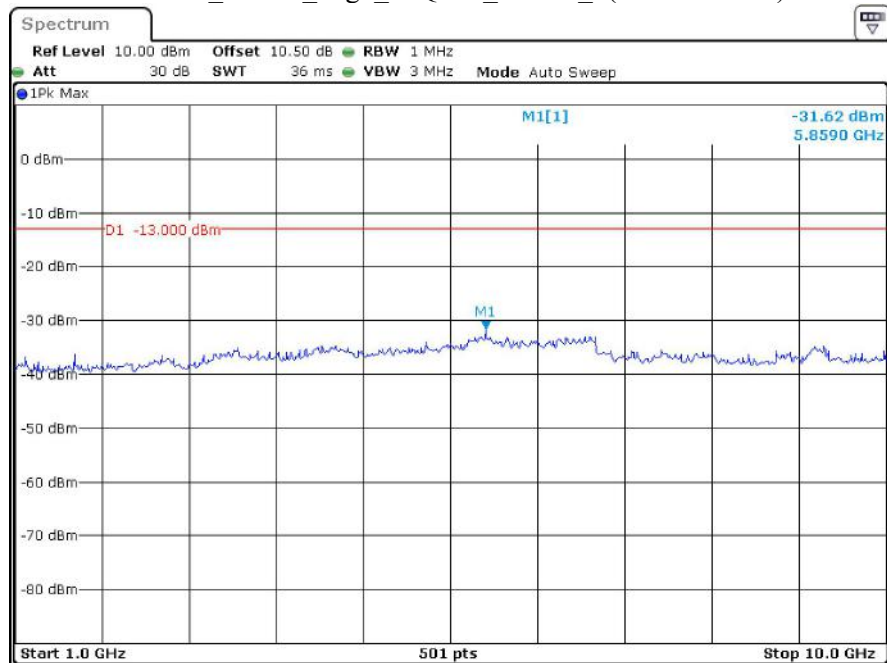
Band 26_3 MHz_High_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:37:22

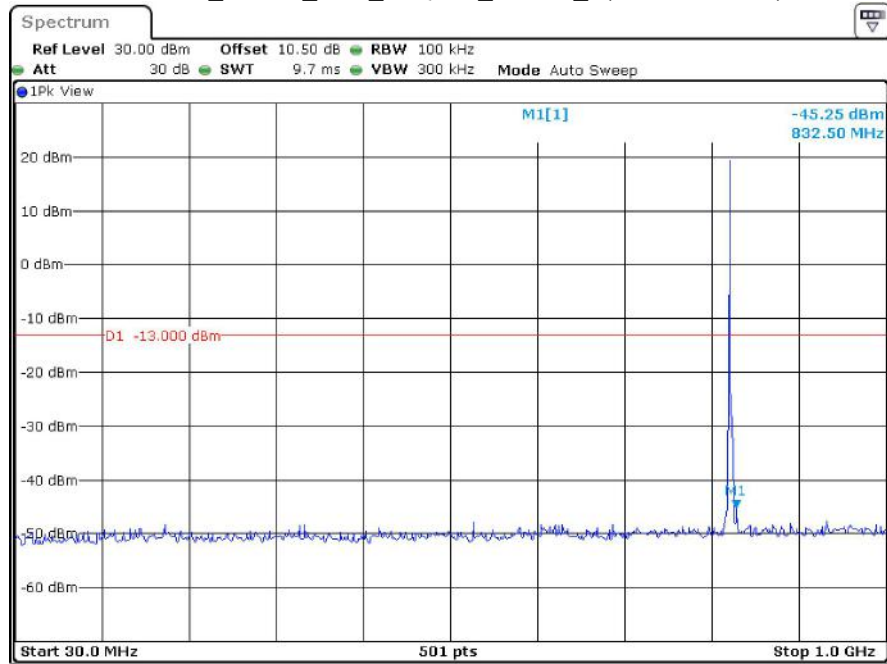
Band 26_3 MHz_High_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:40:58

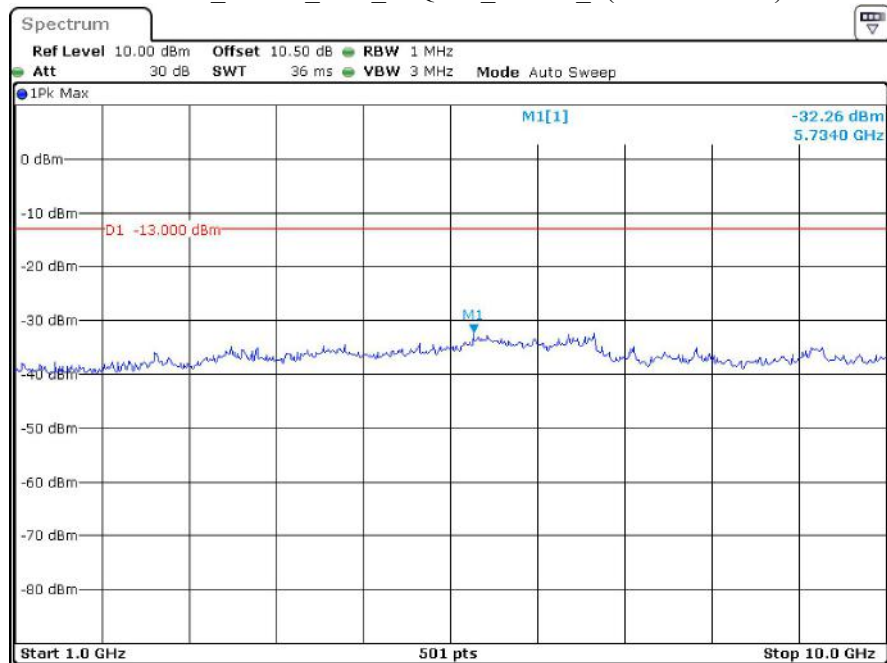
Band 26_5 MHz_Low_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:37:57

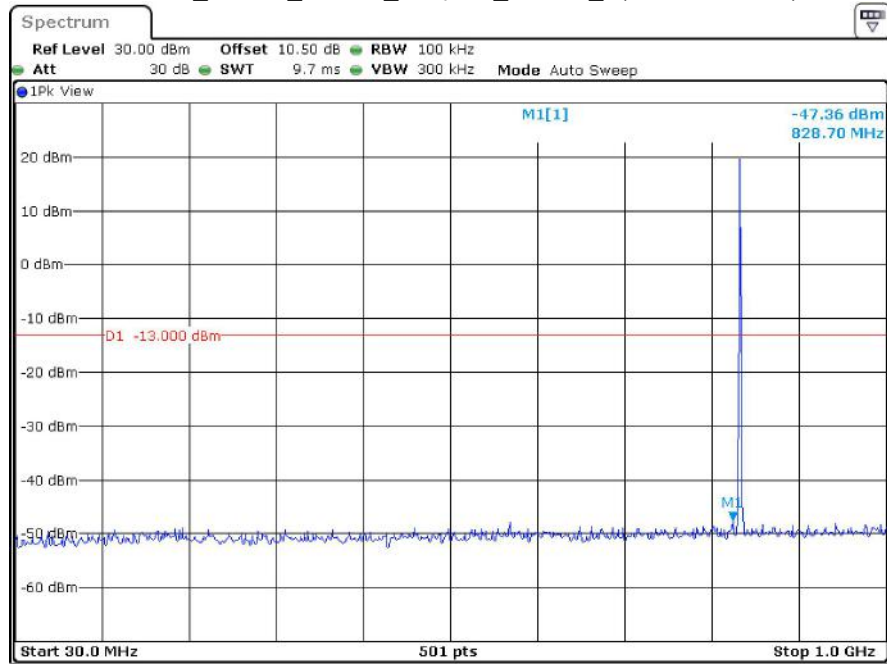
Band 26_5 MHz_Low_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:43:09

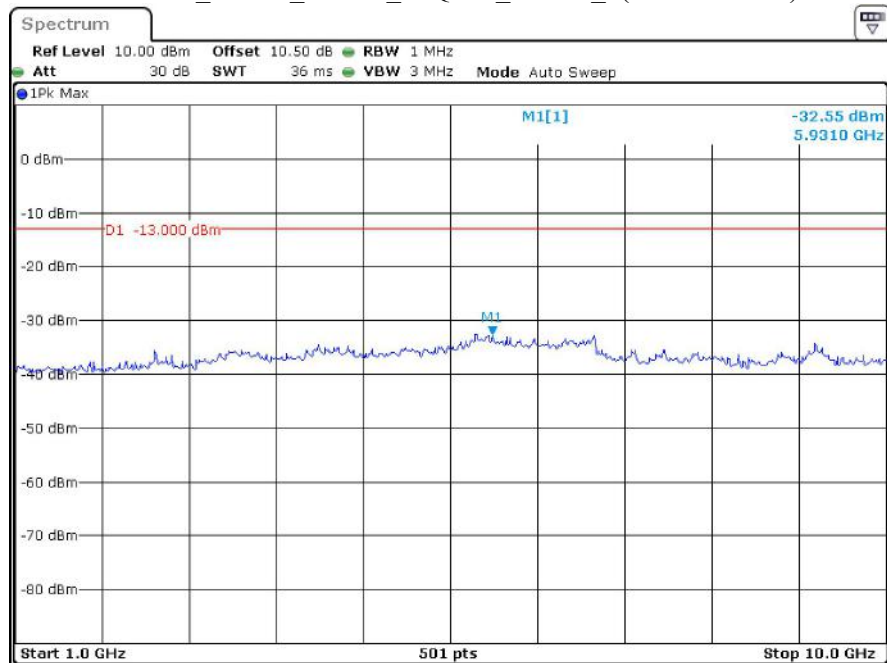
Band 26_5 MHz_Middle_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:39:35

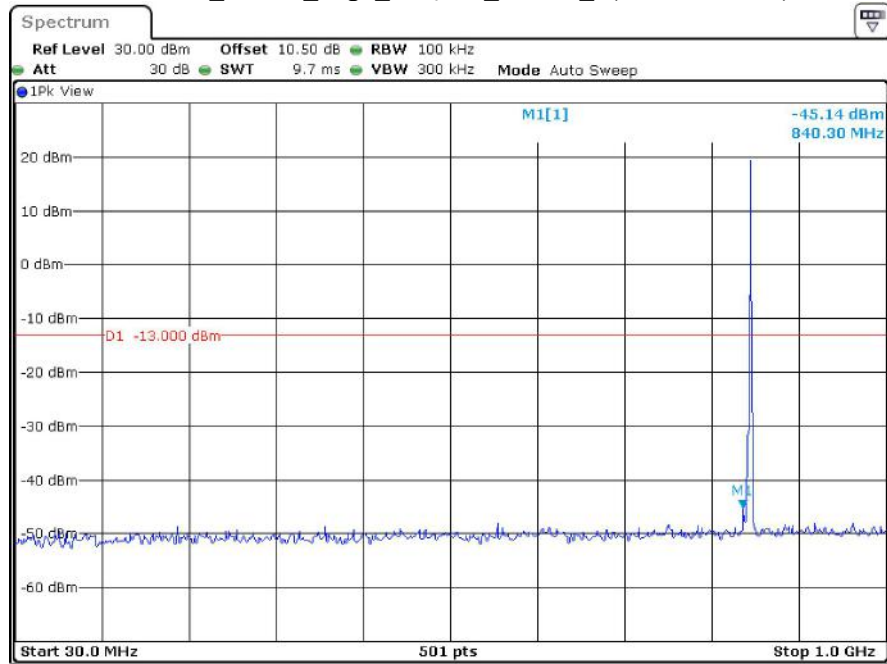
Band 26_5 MHz_Middle_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

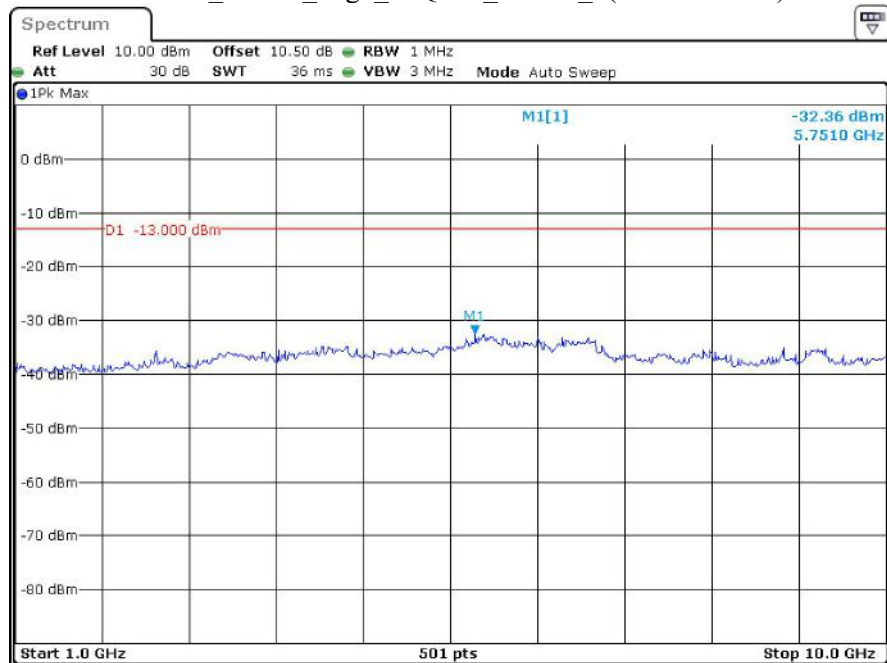
Date: 7.AUG.2024 01:43:59

Band 26_5 MHz_High_16QAM_RB1#0_1(30MHz-1GHz)



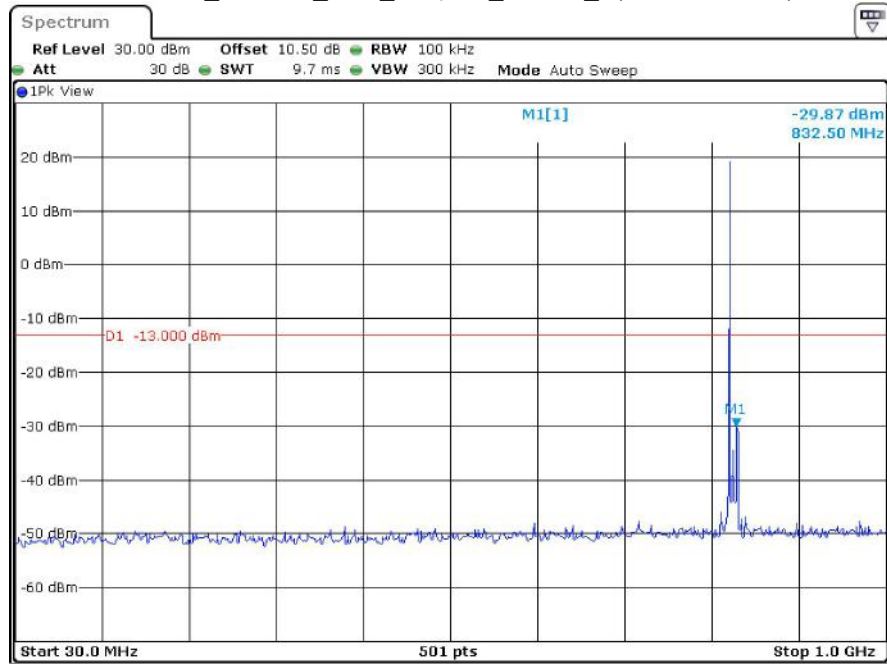
ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 02:40:02

Band 26_5 MHz_High_16QAM_RB1#0_2(1GHz-10GHz)



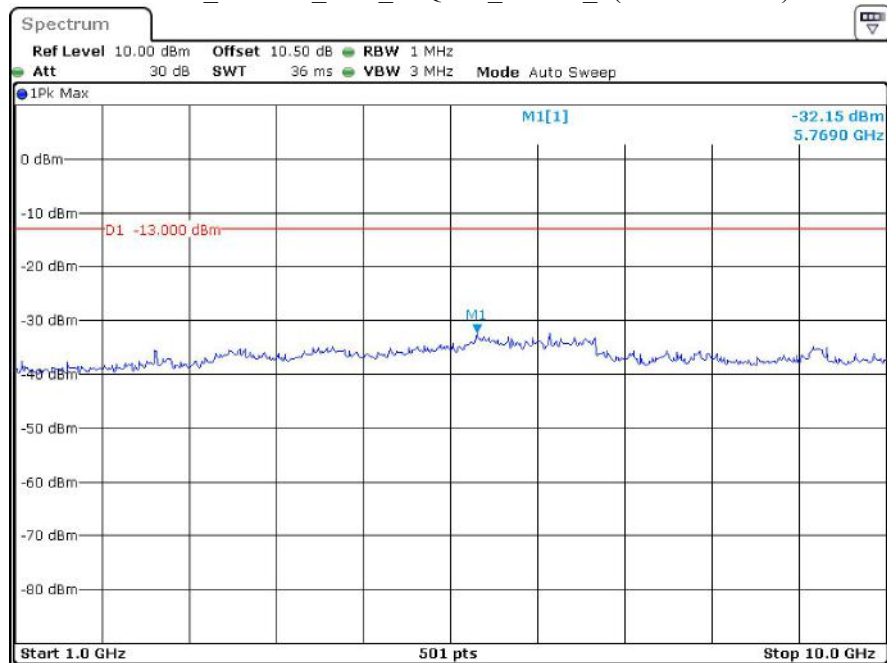
ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 01:44:49

Band 26_10 MHz_Low_16QAM_RB1#0_1(30MHz-1GHz)



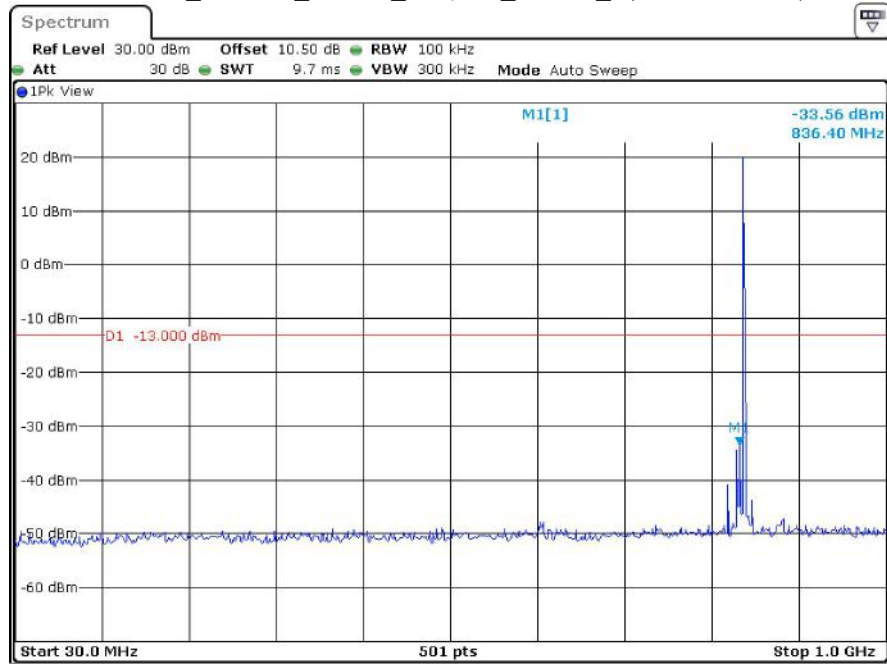
ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 02:40:37

Band 26_10 MHz_Low_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 01:46:48

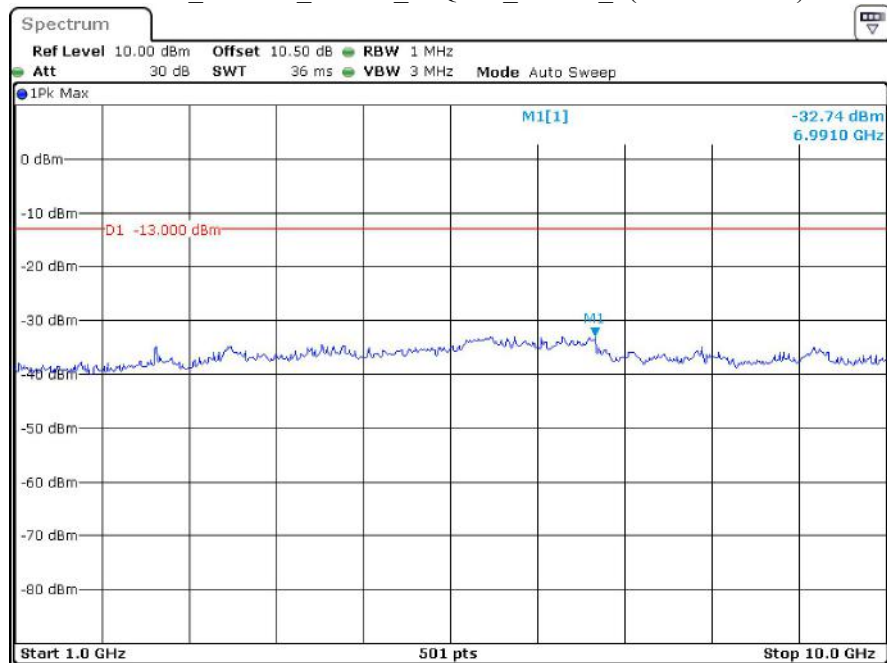
Band 26_10 MHz_Middle_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:41:30

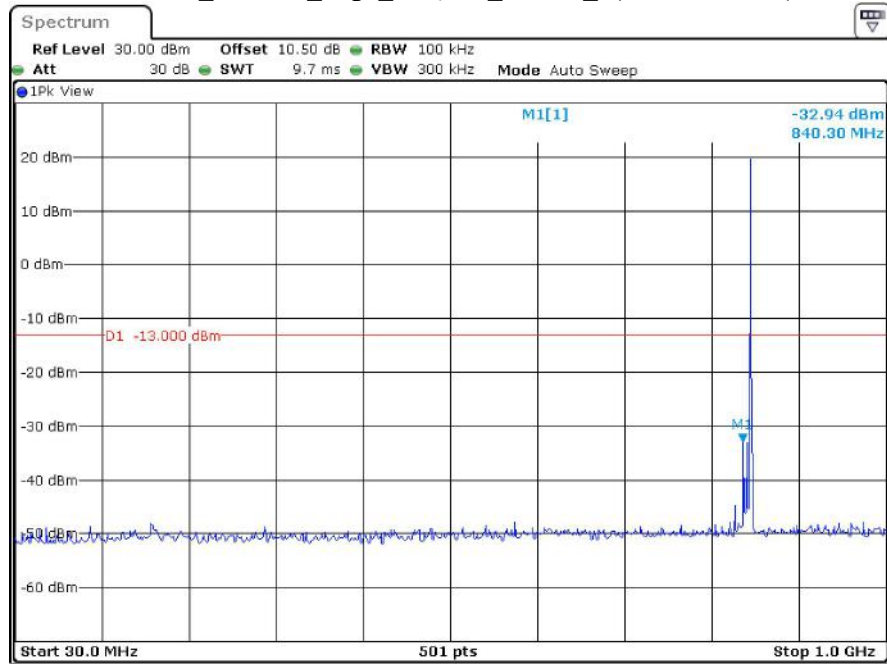
Band 26_10 MHz_Middle_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

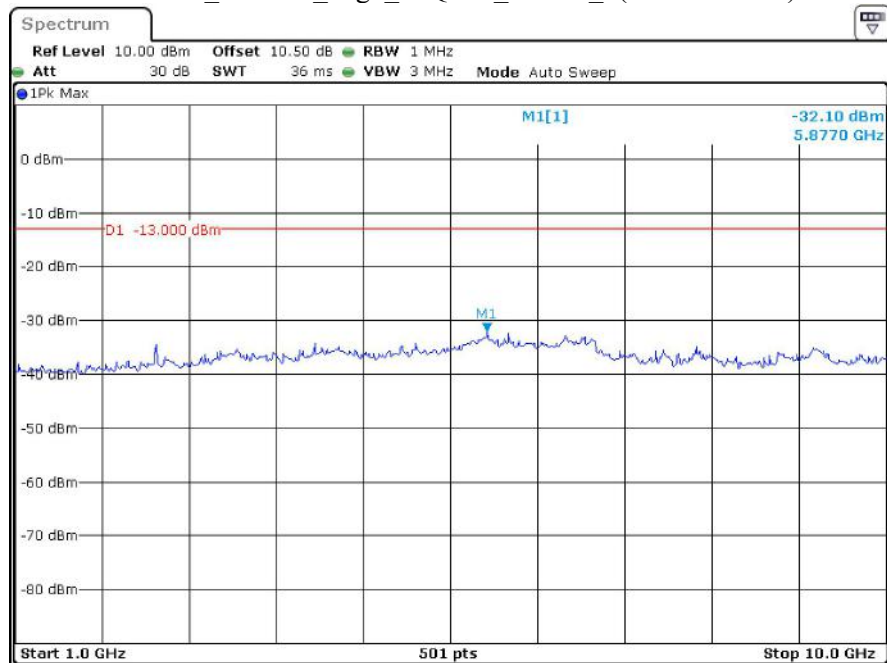
Date: 7.AUG.2024 01:47:32

Band 26_10 MHz_High_16QAM_RB1#0_1(30MHz-1GHz)



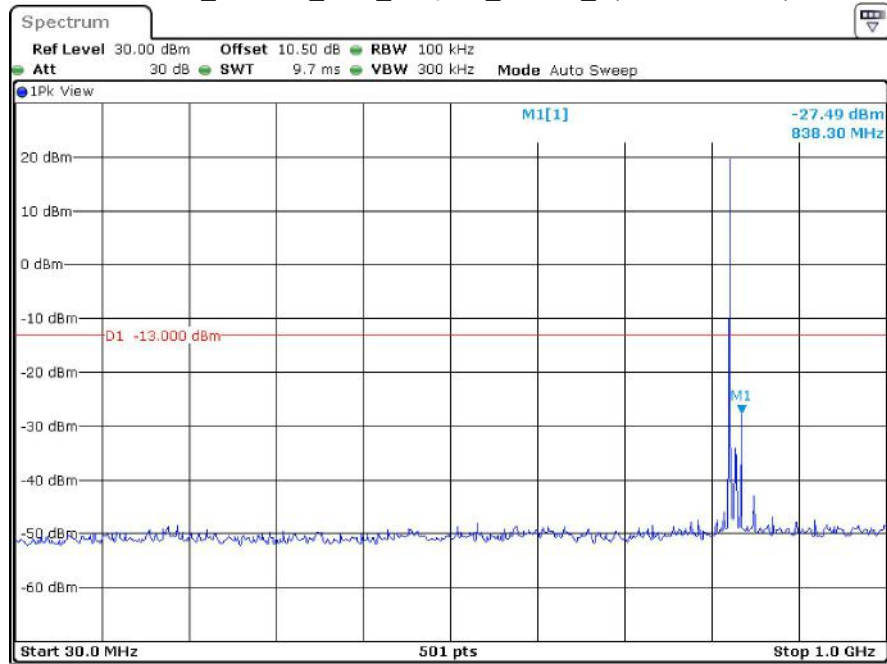
ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 02:41:58

Band 26_10 MHz_High_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai
 Date: 7.AUG.2024 01:48:28

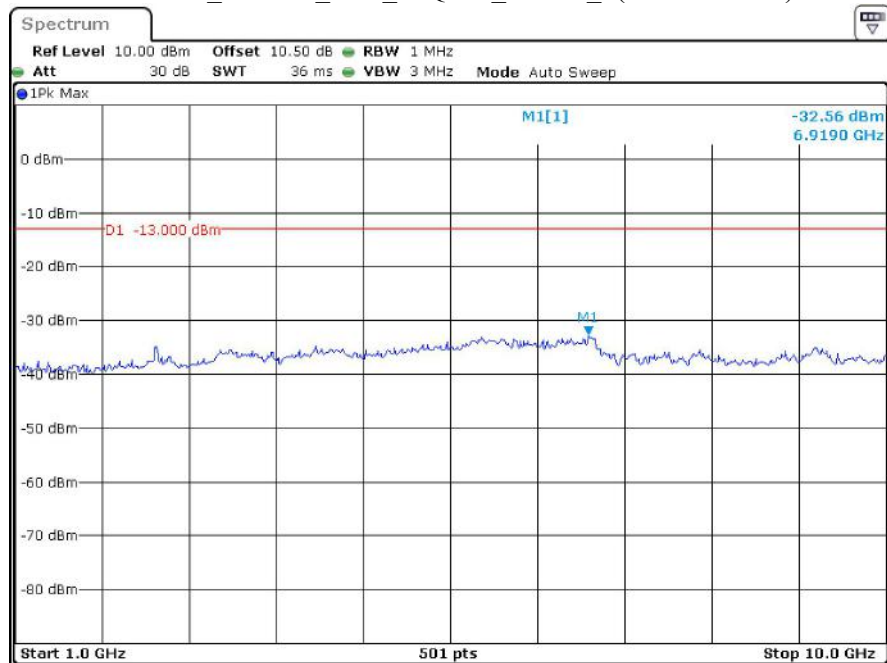
Band 26_15 MHz_Low_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:43:50

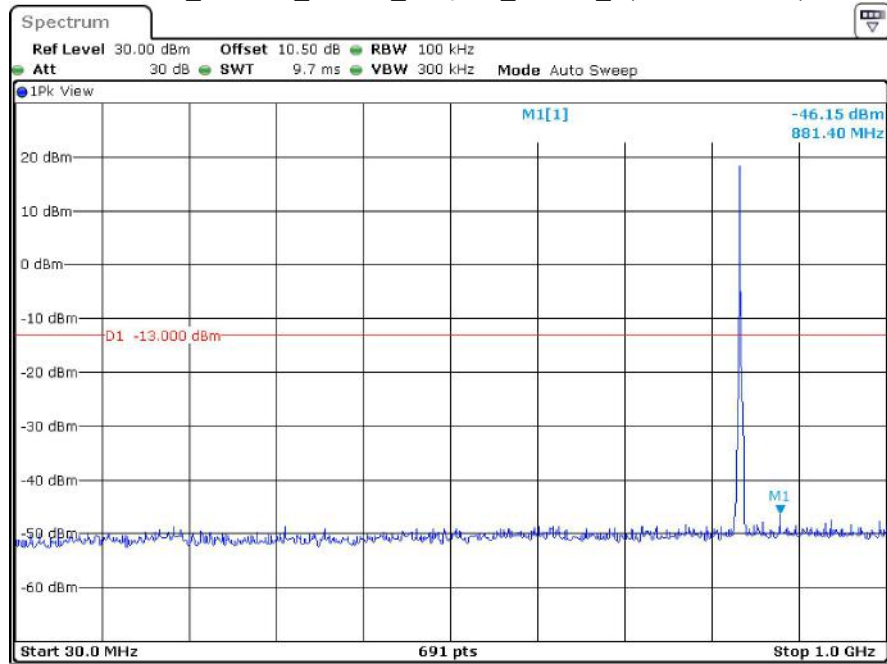
Band 26_15 MHz_Low_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:49:59

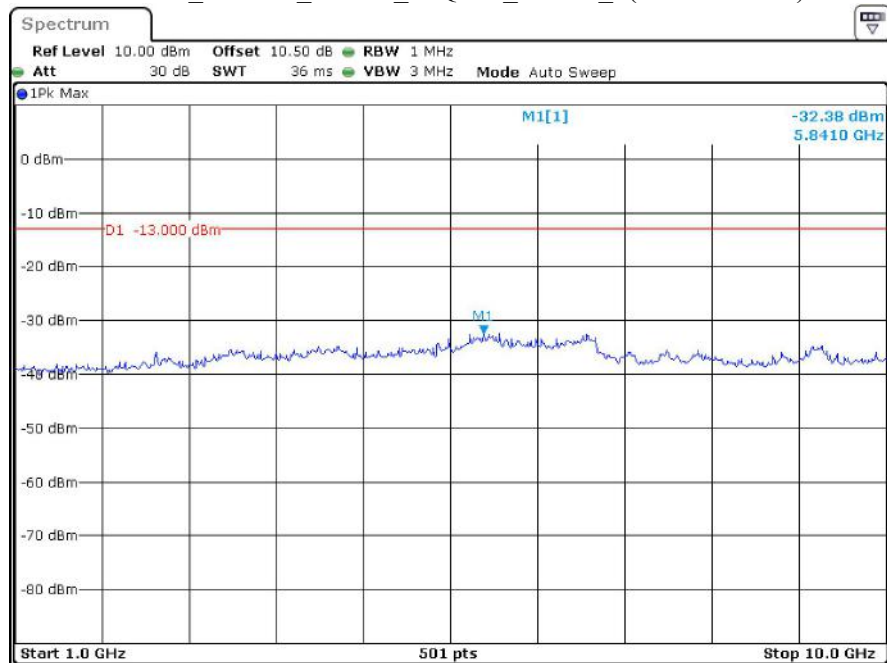
Band 26_15 MHz_Middle_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:46:35

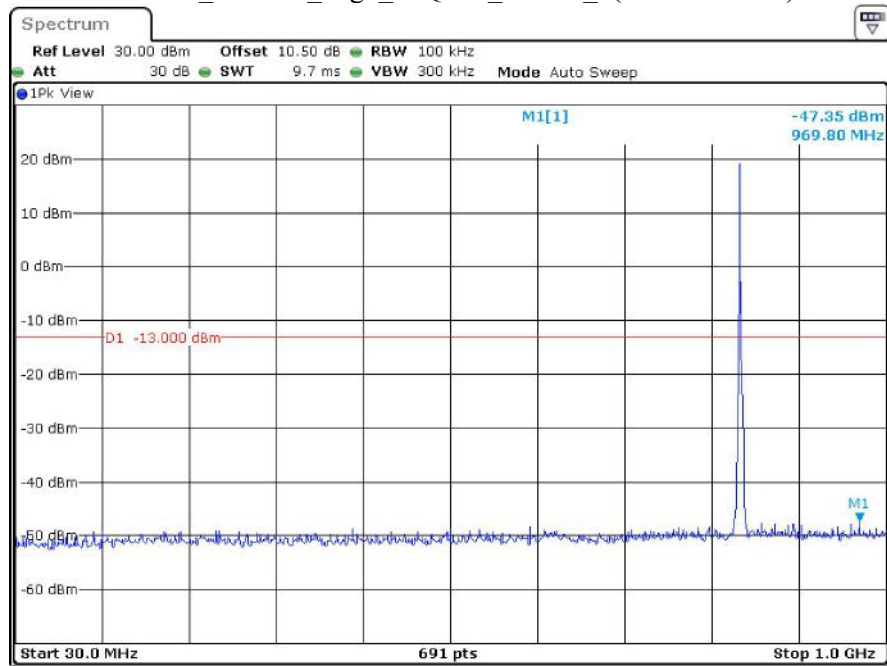
Band 26_15 MHz_Middle_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:50:52

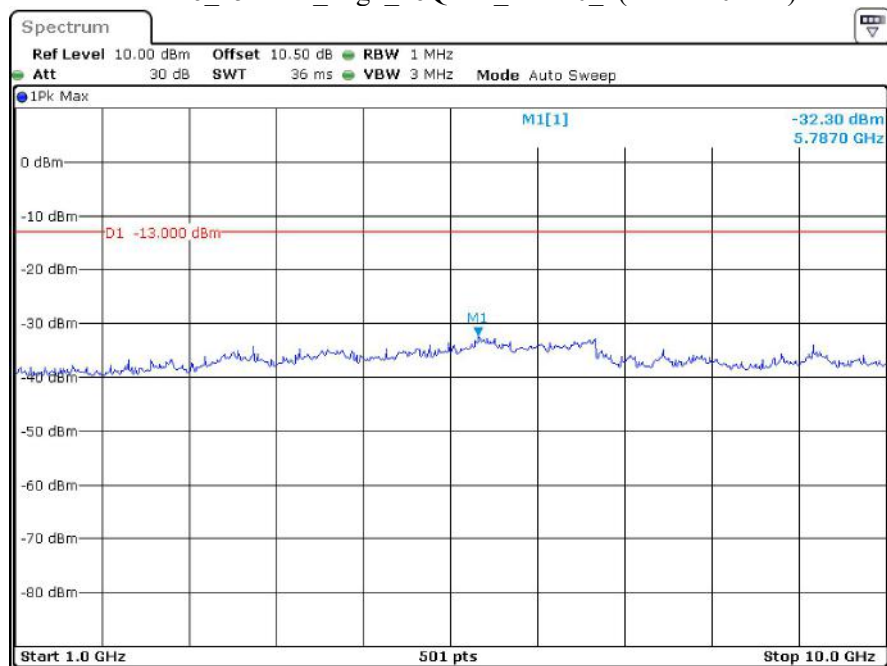
Band 26_15 MHz_High_16QAM_RB1#0_1(30MHz-1GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 02:47:02

Band 26_15 MHz_High_16QAM_RB1#0_2(1GHz-10GHz)



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 01:51:42

The test plots of other LTE band please refer to the Appendix.

FCC § 2.1053; § 22.917 (a); § 24.238 (a); §27.53; §90.543; §90.691- SPURIOUS RADIATED EMISSIONS**Applicable Standard**

FCC § 2.1053, §22.917(a)& § 24.238(a) &§ 27.53 &§90.691.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the receiving antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Test Data**Environmental Conditions**

Temperature:	25~25.4 °C
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Warren Huang on 2024-05-14 for below 1GHz and Dylan Yang on 2024-04-26 for above 1GHz.

Test mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded)

The worst case is as below:

LTE Band: (Pre-scan with all the bandwidth and modulation, and worst case as below)

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-20GHz								
LTE Band2, QPSK, 1.4MHz, Low Channel								
952.0	32.12	H	-64.4	1.36	0.0	-65.76	-13.00	52.76
952.0	33.23	V	-60.8	1.36	0.0	-62.16	-13.00	49.16
3701.40	54.31	H	-51.09	1.30	11.00	-41.39	-13.00	28.39
3701.40	51.47	V	-53.83	1.30	11.00	-44.13	-13.00	31.13
5552.10	48.98	H	-53.42	1.70	10.90	-44.22	-13.00	31.22
5552.10	50.47	V	-52.13	1.70	10.90	-42.93	-13.00	29.93
LTE Band2, QPSK, 1.4MHz, Middle Channel								
958.8	32.26	H	-64.2	1.36	0.0	-65.56	-13.00	52.56
958.8	33.41	V	-60.6	1.36	0.0	-61.96	-13.00	48.96
3760.00	50.23	H	-54.87	1.30	10.70	-45.47	-13.00	32.47
3760.00	49.55	V	-55.55	1.30	10.70	-46.15	-13.00	33.15
5640.00	49.83	H	-52.57	1.70	10.90	-43.37	-13.00	30.37
5640.00	50.39	V	-52.21	1.70	10.90	-43.01	-13.00	30.01
LTE Band2, QPSK, 1.4MHz, Middle Channel								
956.5	33.48	H	-63.0	1.36	0.0	-64.36	-13.00	51.36
956.5	33.62	V	-60.4	1.36	0.0	-61.76	-13.00	48.76
3818.60	57.06	H	-48.04	1.30	10.70	-38.64	-13.00	25.64
3818.60	57.34	V	-47.76	1.30	10.70	-38.36	-13.00	25.36
5727.90	48.67	H	-53.53	1.70	11.10	-44.13	-13.00	31.13
5727.90	49.66	V	-52.64	1.70	11.10	-43.24	-13.00	30.24
LTE Band4, QPSK, 1.4MHz, Low Channel								
954.4	31.76	H	-64.7	1.36	0.0	-66.06	-13.00	53.06
954.4	31.92	V	-62.1	1.36	0.0	-63.46	-13.00	50.46
3421.40	56.98	H	-49.02	1.30	9.90	-40.42	-13.00	27.42
3421.40	60.16	V	-45.54	1.30	9.90	-36.94	-13.00	23.94
5132.10	53.78	H	-49.42	1.50	9.60	-41.32	-13.00	28.32
5132.10	51.47	V	-51.13	1.50	9.60	-43.03	-13.00	30.03
LTE Band4, QPSK, 1.4MHz, Middle Channel								
952.4	31.87	H	-64.6	1.36	0.0	-65.96	-13.00	52.96
952.4	32.15	V	-61.9	1.36	0.0	-63.26	-13.00	50.26
3465.00	57.62	H	-48.28	1.30	10.50	-39.08	-13.00	26.08
3465.00	57.47	V	-48.13	1.30	10.50	-38.93	-13.00	25.93
5197.50	52.40	H	-50.60	1.60	9.70	-42.50	-13.00	29.50
5197.50	50.84	V	-51.86	1.60	9.70	-43.76	-13.00	30.76
LTE Band4, QPSK, 1.4MHz, High Channel								
953.0	32.05	H	-64.5	1.36	0.0	-65.86	-13.00	52.86
953.0	32.34	V	-61.7	1.36	0.0	-63.06	-13.00	50.06
3508.60	59.39	H	-46.51	1.30	10.50	-37.31	-13.00	24.31
3508.60	61.38	V	-44.22	1.30	10.50	-35.02	-13.00	22.02
5262.90	52.71	H	-50.19	1.60	10.00	-41.79	-13.00	28.79
5262.90	50.84	V	-51.86	1.60	10.00	-43.46	-13.00	30.46

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-20GHz								
LTE Band5, QPSK, 1.4MHz, Low Channel								
956.8	30.21	H	-66.3	1.36	0.0	-67.66	-13.00	54.66
956.8	31.56	V	-62.5	1.36	0.0	-63.86	-13.00	50.86
1649.40	69.17	H	-38.53	0.90	8.60	-30.83	-13.00	17.83
1649.40	72.60	V	-35.60	0.90	8.60	-27.90	-13.00	14.90
2474.10	56.88	H	-50.52	1.10	8.80	-42.82	-13.00	29.82
2474.10	57.50	V	-49.60	1.10	8.80	-41.90	-13.00	28.90
3298.80	57.03	H	-48.97	1.30	8.80	-41.47	-13.00	28.47
3298.80	57.15	V	-48.55	1.30	8.80	-41.05	-13.00	28.05
LTE Band5, QPSK, 1.4MHz, Middle Channel								
951.4	30.42	H	-66.1	1.36	0.0	-67.46	-13.00	54.46
951.4	31.80	V	-62.3	1.36	0.0	-63.66	-13.00	50.66
1673.00	61.68	H	-45.92	0.90	8.60	-38.22	-13.00	25.22
1673.00	65.23	V	-42.87	0.90	8.60	-35.17	-13.00	22.17
2509.50	49.30	H	-58.10	1.10	8.80	-50.40	-13.00	37.40
2509.50	46.90	V	-60.20	1.10	8.80	-52.50	-13.00	39.50
3346.00	44.59	H	-61.41	1.30	8.80	-53.91	-13.00	40.91
3346.00	45.48	V	-60.22	1.30	8.80	-52.72	-13.00	39.72
LTE Band5, QPSK, 1.4MHz, Middle Channel								
951.8	30.82	H	-65.7	1.36	0.0	-67.06	-13.00	54.06
951.8	31.99	V	-62.1	1.36	0.0	-63.46	-13.00	50.46
1696.60	68.22	H	-39.38	0.90	8.60	-31.68	-13.00	18.68
1696.60	69.81	V	-38.29	0.90	8.60	-30.59	-13.00	17.59
2544.90	60.03	H	-47.37	1.10	8.80	-39.67	-13.00	26.67
2544.90	57.58	V	-49.52	1.10	8.80	-41.82	-13.00	28.82
3393.20	44.93	H	-61.07	1.30	9.90	-52.47	-13.00	39.47
3393.20	44.93	V	-60.77	1.30	9.90	-52.17	-13.00	39.17

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-27GHz								
LTE Band7, QPSK, 5MHz, Low Channel								
955.2	30.68	H	-65.8	1.36	0.0	-67.16	-25.00	42.16
955.2	31.12	V	-62.9	1.36	0.0	-64.26	-25.00	39.26
5005.00	51.31	H	-51.99	1.50	9.80	-43.69	-25.00	18.69
5005.00	52.08	V	-50.52	1.50	9.80	-42.22	-25.00	17.22
7507.50	44.85	H	-51.15	1.90	10.80	-42.25	-25.00	17.25
7507.50	45.89	V	-50.41	1.90	10.80	-41.51	-25.00	16.51
LTE Band7, QPSK, 5MHz, Middle Channel								
953.4	30.89	H	-65.6	1.36	0.0	-66.96	-25.00	41.96
953.4	31.23	V	-62.8	1.36	0.0	-64.16	-25.00	39.16
5070.00	52.33	H	-50.87	1.50	9.60	-42.77	-25.00	17.77
5070.00	51.61	V	-50.99	1.50	9.60	-42.89	-25.00	17.89
7605.00	45.29	H	-50.61	1.90	11.00	-41.51	-25.00	16.51
7605.00	45.37	V	-50.83	1.90	11.00	-41.73	-25.00	16.73
LTE Band7, QPSK, 5MHz, High Channel								
957.1	31.30	H	-65.2	1.36	0.0	-66.56	-25.00	41.56
957.1	31.56	V	-62.5	1.36	0.0	-63.86	-25.00	38.86
5135.00	52.02	H	-51.18	1.50	9.60	-43.08	-25.00	18.08
5135.00	50.41	V	-52.19	1.50	9.60	-44.09	-25.00	19.09
7702.50	46.15	H	-49.65	1.90	10.90	-40.65	-25.00	15.65
7702.50	45.43	V	-50.77	1.90	10.90	-41.77	-25.00	16.77

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-10GHz								
LTE Band12, QPSK, 1.4MHz, Low Channel								
952.2	32.35	H	-64.2	1.36	0.0	-65.56	-13.00	52.56
952.2	32.78	V	-61.3	1.36	0.0	-62.66	-13.00	49.66
1399.40	56.78	H	-50.92	0.80	7.90	-43.82	-13.00	30.82
1399.40	61.33	V	-47.07	0.80	7.90	-39.97	-13.00	26.97
2099.10	49.06	H	-58.24	1.00	8.30	-50.94	-13.00	37.94
2099.10	52.84	V	-54.96	1.00	8.30	-47.66	-13.00	34.66
2798.80	46.05	H	-60.55	1.20	9.20	-52.55	-13.00	39.55
2798.80	44.81	V	-61.49	1.20	9.20	-53.49	-13.00	40.49
LTE Band12, QPSK, 1.4MHz, Middle Channel								
956.2	32.71	H	-63.8	1.36	0.0	-65.16	-13.00	52.16
956.2	32.94	V	-61.1	1.36	0.0	-62.46	-13.00	49.46
1415.00	57.01	H	-50.69	0.80	7.90	-43.59	-13.00	30.59
1415.00	62.42	V	-45.98	0.80	7.90	-38.88	-13.00	25.88
2122.50	50.12	H	-57.18	1.00	8.30	-49.88	-13.00	36.88
2122.50	53.42	V	-54.38	1.00	8.30	-47.08	-13.00	34.08
2830.00	44.39	H	-62.21	1.20	9.20	-54.21	-13.00	41.21
2830.00	44.63	V	-61.67	1.20	9.20	-53.67	-13.00	40.67
LTE Band12, QPSK, 1.4MHz, High Channel								
957.9	32.82	H	-63.7	1.36	0.0	-65.06	-13.00	52.06
957.9	33.10	V	-61.0	1.36	0.0	-62.36	-13.00	49.36
1430.60	57.99	H	-49.71	0.80	7.90	-42.61	-13.00	29.61
1430.60	63.34	V	-45.06	0.80	7.90	-37.96	-13.00	24.96
2145.90	50.49	H	-56.81	1.00	8.30	-49.51	-13.00	36.51
2145.90	53.29	V	-54.51	1.00	8.30	-47.21	-13.00	34.21
2861.20	46.20	H	-60.10	1.20	9.00	-52.30	-13.00	39.30
2861.20	47.56	V	-58.54	1.20	9.00	-50.74	-13.00	37.74

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-10GHz								
LTE Band13, QPSK, 5MHz, Low Channel								
958.5	33.29	H	-63.2	1.36	0.0	-64.56	-13	51.56
958.5	34.08	V	-60.0	1.36	0.0	-61.36	-13	48.36
1559.00	48.64	H	-59.0	0.90	8.60	-51.30	-40	11.30
1559.00	48.07	V	-60.1	0.90	8.60	-52.40	-40	12.40
2338.50	53.18	H	-54.2	1.10	9.40	-45.90	-13	32.90
2338.50	51.96	V	-55.5	1.10	9.40	-47.20	-13	34.20
3118.00	50.53	H	-55.5	1.20	7.20	-49.50	-13	36.50
3118.00	50.12	V	-55.6	1.20	7.20	-49.60	-13	36.60
LTE Band13, QPSK, 5MHz, Middle Channel								
959.8	33.41	H	-63.1	1.36	0.0	-64.46	-13	51.46
959.8	34.16	V	-59.9	1.36	0.0	-61.26	-13	48.26
1564.00	50.78	H	-56.9	0.90	8.60	-49.20	-40	9.20
1564.00	49.89	V	-58.3	0.90	8.60	-50.60	-40	10.60
2346.00	56.56	H	-50.8	1.10	9.40	-42.50	-13	29.50
2346.00	55.03	V	-52.4	1.10	9.40	-44.10	-13	31.10
3128.00	48.81	H	-57.2	1.20	7.20	-51.20	-13	38.20
3128.00	47.47	V	-58.3	1.20	7.20	-52.30	-13	39.30
LTE Band13, QPSK, 5MHz, High Channel								
959.5	33.58	H	-62.9	1.36	0.0	-64.26	-13	51.26
959.5	34.31	V	-59.7	1.36	0.0	-61.06	-13	48.06
1569.00	53.49	H	-54.2	0.90	8.60	-46.50	-40	6.50
1569.00	52.36	V	-55.8	0.90	8.60	-48.10	-40	8.10
2353.50	59.21	H	-48.1	1.10	9.10	-40.10	-13	27.10
2353.50	57.98	V	-49.3	1.10	9.10	-41.30	-13	28.30
3138.00	53.37	H	-52.7	1.20	7.20	-46.70	-13	33.70
3138.00	52.15	V	-53.6	1.20	7.20	-47.60	-13	34.60

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-10GHz								
LTE Band14, QPSK, 5MHz, Low Channel								
954.7	33.72	H	-62.8	1.36	0.0	-64.16	-13	51.16
954.7	32.69	V	-61.4	1.36	0.0	-62.76	-13	49.76
1581.00	53.36	H	-54.3	0.90	8.60	-46.60	-40	6.60
1581.00	52.27	V	-55.9	0.90	8.60	-48.20	-40	8.20
2371.50	54.89	H	-52.5	1.10	9.10	-44.50	-13	31.50
2371.50	53.55	V	-53.7	1.10	9.10	-45.70	-13	32.70
3162.00	50.12	H	-55.9	1.20	7.60	-49.50	-13	36.50
3162.00	49.48	V	-56.2	1.20	7.60	-49.80	-13	36.80
LTE Band14, QPSK, 5MHz, Middle Channel								
955.1	34.20	H	-62.3	1.36	0.0	-63.66	-13	50.66
955.1	33.63	V	-60.4	1.36	0.0	-61.76	-13	48.76
1586.00	54.57	H	-53.1	0.90	8.60	-45.40	-40	5.40
1586.00	52.96	V	-55.2	0.90	8.60	-47.50	-40	7.50
2379.00	55.23	H	-52.1	1.10	9.10	-44.10	-13	31.10
2379.00	53.78	V	-53.5	1.10	9.10	-45.50	-13	32.50
3172.00	49.05	H	-57.0	1.20	7.60	-50.60	-13	37.60
3172.00	48.14	V	-57.6	1.20	7.60	-51.20	-13	38.20
LTE Band14, QPSK, 5MHz, High Channel								
953.0	34.68	H	-61.8	1.36	0.0	-63.16	-13	50.16
953.0	33.77	V	-60.3	1.36	0.0	-61.66	-13	48.66
1591.00	52.75	H	-54.9	0.90	8.60	-47.20	-40	7.20
1591.00	52.14	V	-56.1	0.90	8.60	-48.40	-40	8.40
2386.50	55.29	H	-52.1	1.10	9.10	-44.10	-13	31.10
2386.50	53.51	V	-53.8	1.10	9.10	-45.80	-13	32.80
3182.00	48.32	H	-57.7	1.20	7.60	-51.30	-13	38.30
3182.00	48.08	V	-57.6	1.20	7.60	-51.20	-13	38.20

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-10GHz								
LTE Band17, QPSK, 5MHz, Low Channel								
956.6	32.04	H	-64.5	1.36	0.0	-65.86	-13.00	52.86
956.6	31.84	V	-62.2	1.36	0.0	-63.56	-13.00	50.56
1413.000	54.06	H	-53.64	0.80	7.90	-46.54	-13.00	33.54
1413.000	57.60	V	-50.80	0.80	7.90	-43.70	-13.00	30.70
2119.500	46.37	H	-60.93	1.00	8.30	-53.63	-13.00	40.63
2119.500	49.09	V	-58.71	1.00	8.30	-51.41	-13.00	38.41
2826.000	43.38	H	-63.22	1.20	9.20	-55.22	-13.00	42.22
2826.000	44.21	V	-62.09	1.20	9.20	-54.09	-13.00	41.09
LTE Band17, QPSK, 5MHz, Middle Channel								
959.3	32.18	H	-64.3	1.36	0.0	-65.66	-13.00	52.66
959.3	32.13	V	-61.9	1.36	0.0	-63.26	-13.00	50.26
1420.000	54.03	H	-53.67	0.80	7.90	-46.57	-13.00	33.57
1420.000	57.83	V	-50.57	0.80	7.90	-43.47	-13.00	30.47
2130.000	48.36	H	-58.94	1.00	8.30	-51.64	-13.00	38.64
2130.000	49.25	V	-58.55	1.00	8.30	-51.25	-13.00	38.25
2840.000	43.60	H	-63.00	1.20	9.20	-55.00	-13.00	42.00
2840.000	45.39	V	-60.91	1.20	9.20	-52.91	-13.00	39.91
LTE Band17, QPSK, 5MHz, High Channel								
951.5	32.36	H	-64.1	1.36	0.0	-65.46	-13.00	52.46
951.5	32.22	V	-61.8	1.36	0.0	-63.16	-13.00	50.16
1427.000	55.28	H	-52.42	0.80	7.90	-45.32	-13.00	32.32
1427.000	58.31	V	-50.09	0.80	7.90	-42.99	-13.00	29.99
2140.500	47.95	H	-59.35	1.00	8.30	-52.05	-13.00	39.05
2140.500	49.74	V	-58.06	1.00	8.30	-50.76	-13.00	37.76
2854.000	43.65	H	-62.65	1.20	9.00	-54.85	-13.00	41.85
2854.000	43.51	V	-62.59	1.20	9.00	-54.79	-13.00	41.79

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
Test frequency range: 30MHz-20GHz								
LTE Band25, QPSK, 1.4MHz, Low Channel								
957.3	32.86	H	-63.6	1.36	0.0	-64.96	-13.00	51.96
957.3	33.27	V	-60.8	1.36	0.0	-62.16	-13.00	49.16
3701.400	50.18	H	-55.22	1.30	11.00	-45.52	-13.00	32.52
3701.400	49.52	V	-55.78	1.30	11.00	-46.08	-13.00	33.08
5552.100	49.66	H	-52.74	1.70	10.90	-43.54	-13.00	30.54
5552.100	50.45	V	-52.15	1.70	10.90	-42.95	-13.00	29.95
LTE Band25, QPSK, 1.4MHz, Middle Channel								
956.8	33.06	H	-63.4	1.36	0.0	-64.76	-13.00	51.76
956.8	33.40	V	-60.7	1.36	0.0	-62.06	-13.00	49.06
3765.000	50.97	H	-54.13	1.30	10.70	-44.73	-13.00	31.73
3765.000	52.23	V	-52.87	1.30	10.70	-43.47	-13.00	30.47
5647.500	48.29	H	-54.11	1.70	10.90	-44.91	-13.00	31.91
5647.500	49.52	V	-53.08	1.70	10.90	-43.88	-13.00	30.88
LTE Band25, QPSK, 1.4MHz, High Channel								
958.1	33.52	H	-63.0	1.36	0.0	-64.36	-13.00	51.36
958.1	33.55	V	-60.5	1.36	0.0	-61.86	-13.00	48.86
3828.600	50.13	H	-54.97	1.30	10.70	-45.57	-13.00	32.57
3828.600	51.50	V	-53.60	1.30	10.70	-44.20	-13.00	31.20
5742.900	47.95	H	-54.25	1.70	11.10	-44.85	-13.00	31.85
5742.900	47.58	V	-54.72	1.70	11.10	-45.32	-13.00	32.32

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
LTE Band 26(Part 90)								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz, Low Channel								
957.5	33.72	H	-62.8	1.36	0.0	-64.16	-13.00	51.16
957.5	32.69	V	-61.4	1.36	0.0	-62.76	-13.00	49.76
1629.400	64.58	H	-43.12	0.90	8.60	-35.42	-13.00	22.42
1629.400	67.36	V	-40.84	0.90	8.60	-33.14	-13.00	20.14
2444.100	48.28	H	-59.02	1.10	9.10	-51.02	-13.00	38.02
2444.100	49.47	V	-57.83	1.10	9.10	-49.83	-13.00	36.83
3258.800	47.75	H	-58.25	1.30	8.80	-50.75	-13.00	37.75
3258.800	47.25	V	-58.45	1.30	8.80	-50.95	-13.00	37.95
QPSK, 1.4MHz, Middle Channel								
951.2	34.20	H	-62.3	1.36	0.0	-63.66	-13.00	50.66
951.2	33.63	V	-60.4	1.36	0.0	-61.76	-13.00	48.76
1646.600	65.05	H	-42.35	0.90	8.60	-34.65	-13.00	21.65
1646.600	65.10	V	-41.96	0.90	8.60	-34.26	-13.00	21.26
2469.900	50.77	H	-56.63	1.10	8.80	-48.93	-13.00	35.93
2469.900	51.00	V	-56.07	1.10	8.80	-48.37	-13.00	35.37
3293.200	47.76	H	-59.64	1.30	8.80	-52.14	-13.00	39.14
3293.200	47.80	V	-59.35	1.30	8.80	-51.85	-13.00	38.85
QPSK, 1.4MHz, High Channel								
952.6	34.68	H	-61.8	1.36	0.0	-63.16	-13.00	50.16
952.6	33.77	V	-60.3	1.36	0.0	-61.66	-13.00	48.66
1648.000	66.55	H	-40.85	1.10	8.80	-33.15	-13.00	20.15
1648.000	65.30	V	-41.76	1.10	8.80	-34.06	-13.00	21.06
2472.000	51.15	H	-56.25	1.10	8.80	-48.55	-13.00	35.55
2472.000	50.60	V	-56.46	1.10	8.80	-48.76	-13.00	35.76
3296.000	47.96	H	-59.44	1.30	8.80	-51.94	-13.00	38.94
3296.000	48.80	V	-58.35	1.30	8.80	-50.85	-13.00	37.85

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
LTE Band 26(Part 22H)								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz, Low Channel								
957.6	33.72	H	-61.8	1.36	0.0	-63.16	-13.00	50.16
957.6	32.69	V	-62.4	1.36	0.0	-63.76	-13.00	50.76
1649.4	64.55	H	-42.85	1.10	8.80	-35.15	-13	22.15
1649.4	66.3	V	-40.76	1.10	8.80	-33.06	-13	20.06
2474.1	50.17	H	-57.23	1.10	8.80	-49.53	-13	36.53
2474.1	49.6	V	-57.47	1.10	8.80	-49.77	-13	36.77
3298.8	48.98	H	-58.42	1.10	8.80	-50.72	-13	37.72
3298.8	49.20	V	-57.95	1.10	8.80	-50.25	-13	37.25
QPSK, 1.4MHz, Middle Channel								
951.4	33.21	H	-62.2	1.36	0.0	-63.56	-13.00	50.56
951.4	32.43	V	-62.3	1.36	0.0	-63.66	-13.00	50.66
1673.000	64.25	H	-43.35	0.90	8.60	-35.65	-13.00	22.65
1673.000	67.14	V	-40.96	0.90	8.60	-33.26	-13.00	20.26
2509.500	49.77	H	-57.63	1.10	8.80	-49.93	-13.00	36.93
2509.500	50.03	V	-57.07	1.10	8.80	-49.37	-13.00	36.37
3346.000	47.56	H	-58.44	1.30	8.80	-50.94	-13.00	37.94
3346.000	46.75	V	-58.95	1.30	8.80	-51.45	-13.00	38.45
QPSK, 1.4MHz, High Channel								
952.3	35.65	H	-64.2	1.36	0.0	-65.56	-13.00	52.56
952.3	35.27	V	-63.3	1.36	0.0	-64.66	-13.00	51.66
1696.600	63.81	H	-43.79	0.90	8.60	-36.09	-13.00	23.09
1696.600	65.84	V	-42.26	0.90	8.60	-34.56	-13.00	21.56
2544.900	49.86	H	-57.54	1.10	8.80	-49.84	-13.00	36.84
2544.900	49.25	V	-57.85	1.10	8.80	-50.15	-13.00	37.15
3393.200	44.68	H	-61.32	1.30	9.90	-52.72	-13.00	39.72
3393.200	45.24	V	-60.46	1.30	9.90	-51.86	-13.00	38.86

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
LTE Band 66								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz, Low Channel								
958.1	34.89	H	-61.6	1.36	0.0	-62.96	-13.00	49.96
958.1	34.26	V	-59.8	1.36	0.0	-61.16	-13.00	48.16
3421.400	55.37	H	-50.63	1.30	9.90	-42.03	-13.00	29.03
3421.400	56.00	V	-49.70	1.30	9.90	-41.10	-13.00	28.10
5132.100	46.97	H	-56.23	1.50	9.60	-48.13	-13.00	35.13
5132.100	47.62	V	-54.98	1.50	9.60	-46.88	-13.00	33.88
QPSK, 1.4MHz, Middle Channel								
959.4	35.05	H	-61.5	1.36	0.0	-62.86	-13.00	49.86
959.4	34.35	V	-59.7	1.36	0.0	-61.06	-13.00	48.06
3490.000	53.81	H	-52.09	1.30	10.50	-42.89	-13.00	29.89
3490.000	55.31	V	-50.29	1.30	10.50	-41.09	-13.00	28.09
5235.000	46.55	H	-56.45	1.60	9.70	-48.35	-13.00	35.35
5235.000	46.08	V	-56.62	1.60	9.70	-48.52	-13.00	35.52
QPSK, 1.4MHz, High Channel								
956.0	35.20	H	-61.3	1.36	0.0	-62.66	-13.00	49.66
956.0	34.63	V	-59.4	1.36	0.0	-60.76	-13.00	47.76
3558.600	53.63	H	-52.07	1.30	10.90	-42.47	-13.00	29.47
3558.600	53.67	V	-51.73	1.30	10.90	-42.13	-13.00	29.13
5337.900	45.69	H	-57.21	1.60	10.00	-48.81	-13.00	35.81
5337.900	46.44	V	-56.26	1.60	10.00	-47.86	-13.00	34.86

Frequency (MHz)	Receiver Reading (dBm)	Polar (H / V)	Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)			
LTE Band 71								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz, Low Channel								
953.6	33.27	H	-63.2	1.36	0.0	-64.56	-13.00	51.56
953.6	31.89	V	-62.2	1.36	0.0	-63.56	-13.00	50.56
1331.000	41.77	H	-65.93	0.80	7.30	-59.43	-13.00	46.43
1331.000	42.33	V	-66.27	0.80	7.30	-59.77	-13.00	46.77
1996.500	41.85	H	-65.45	1.00	7.30	-59.15	-13.00	46.15
1996.500	43.39	V	-64.61	1.00	7.30	-58.31	-13.00	45.31
2662.000	42.14	H	-64.66	1.10	9.00	-56.76	-13.00	43.76
2662.000	42.07	V	-64.53	1.10	9.00	-56.63	-13.00	43.63
QPSK, 1.4MHz, Middle Channel								
955.1	33.48	H	-63.0	1.36	0.0	-64.36	-13.00	51.36
955.1	32.36	V	-61.7	1.36	0.0	-63.06	-13.00	50.06
1361.000	39.74	H	-67.96	0.80	7.90	-60.86	-13.00	47.86
1361.000	40.03	V	-68.37	0.80	7.90	-61.27	-13.00	48.27
2041.500	42.15	H	-65.15	1.00	7.30	-58.85	-13.00	45.85
2041.500	42.16	V	-65.84	1.00	7.30	-59.54	-13.00	46.54
2722.000	41.79	H	-65.01	1.10	9.00	-57.11	-13.00	44.11
2722.000	41.18	V	-65.42	1.10	9.00	-57.52	-13.00	44.52
QPSK, 1.4MHz, High Channel								
957.8	33.62	H	-62.9	1.36	0.0	-64.26	-13.00	51.26
957.8	32.55	V	-61.5	1.36	0.0	-62.86	-13.00	49.86
1391.000	51.14	H	-56.56	0.80	7.90	-49.46	-13.00	36.46
1391.000	52.12	V	-56.28	0.80	7.90	-49.18	-13.00	36.18
2086.500	45.13	H	-62.17	1.00	8.30	-54.87	-13.00	41.87
2086.500	48.93	V	-58.87	1.00	8.30	-51.57	-13.00	38.57
2782.000	42.60	H	-64.00	1.20	9.20	-56.00	-13.00	43.00
2782.000	43.06	V	-63.24	1.20	9.20	-55.24	-13.00	42.24

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: Substituted Level - Cable loss+ Antenna Gain

Margin = Limit -Absolute Level

FCC§ 22.917 (a); § 24.238 (a); §27.53(c) (g) (h)(m) ; §90.543; §90.691 - BAND EDGES**Applicable Standard**

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §27.53 (c) (g) (h), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §27.53 (m), the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

According to § 90.543, (e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

According to § 90.691, (a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

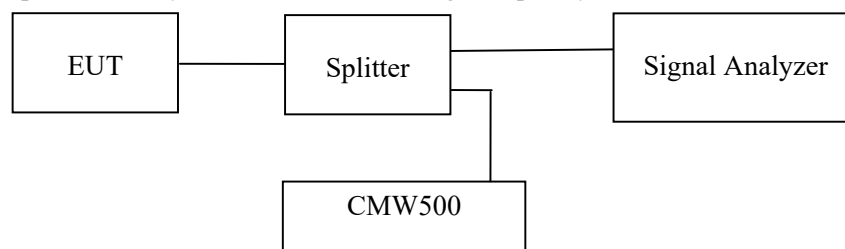
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency



Note: the worst path loss (cable loss and splitter inset loss) among the test frequency range has added into plot.

Test Data

Environmental Conditions

Temperature:	25.5~27.5 °C
Relative Humidity:	48~55 %
ATM Pressure:	101.0 kPa

The testing was performed by Allen Bai from 2024-07-22 to 2024-08-16.

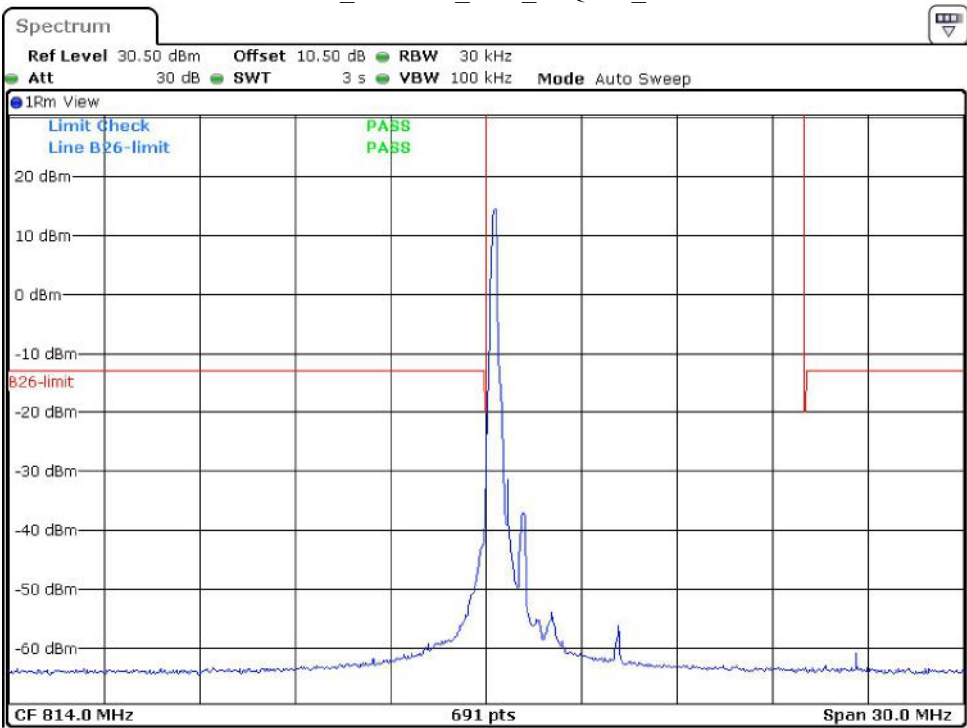
EUT operation mode: Transmitting (Worst case)

Test Result: Compliant

Please refer to the following plots.

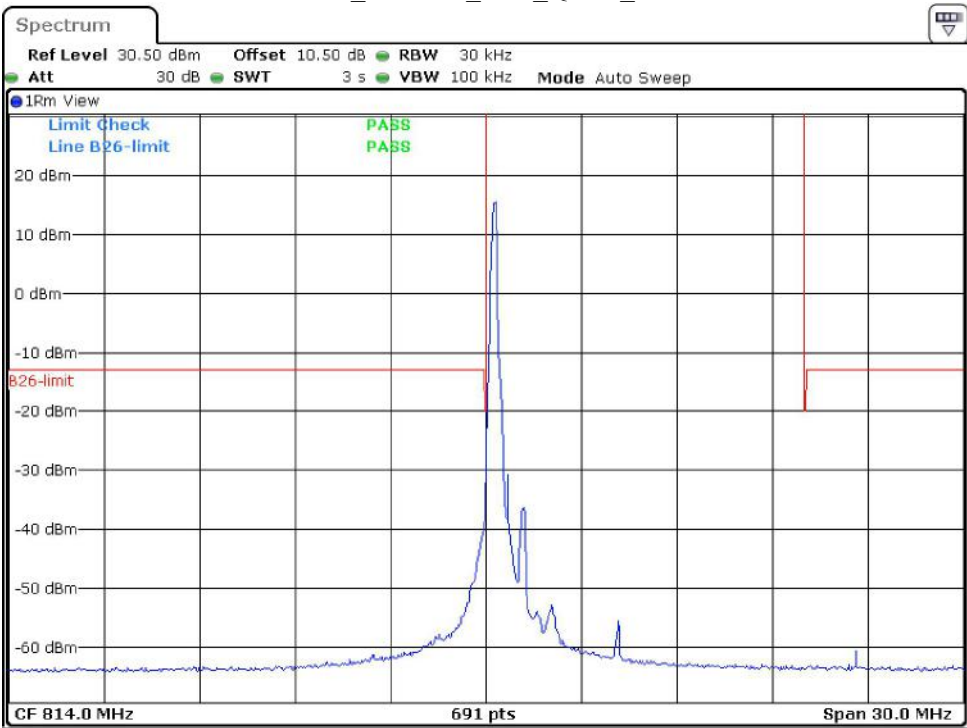
LTE Band 26(Part 90s):

Band 26_1.4 MHz_Low_16QAM_RB1#0



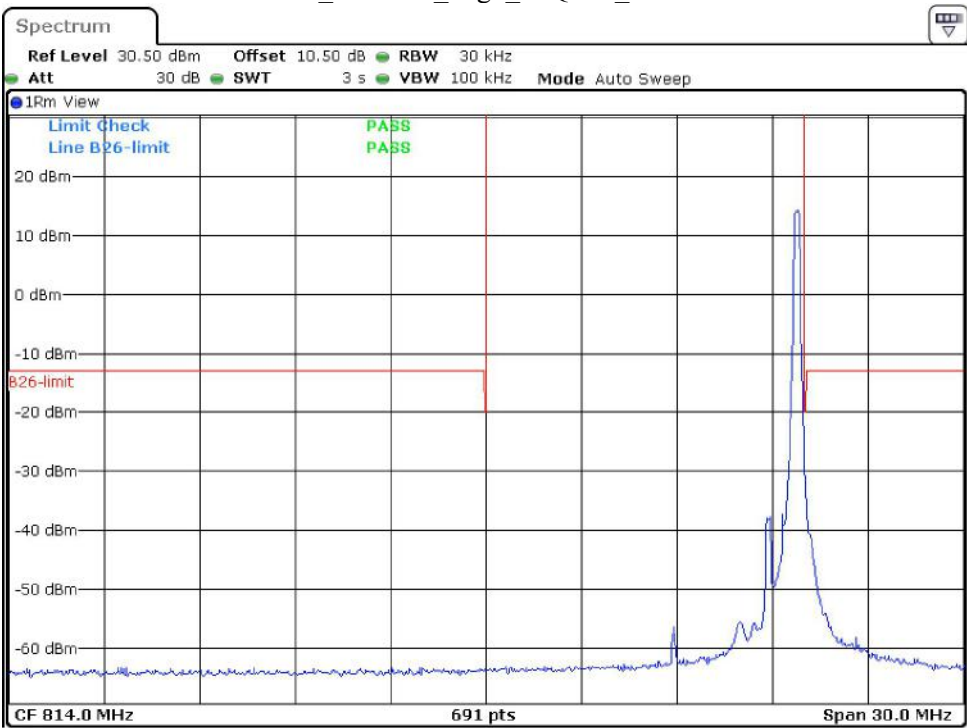
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Date: 26.JUL.2024 03:18:44

Band 26_1.4 MHz_Low_QPSK_RB1#0



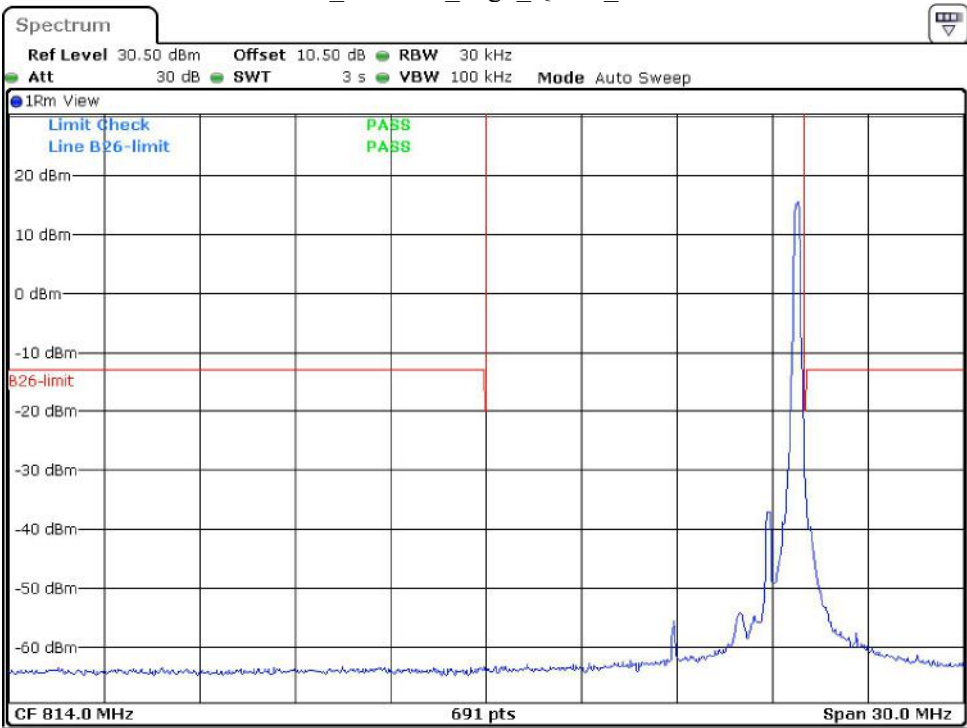
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Band 26_1.4 MHz_High_16QAM_RB1#Max



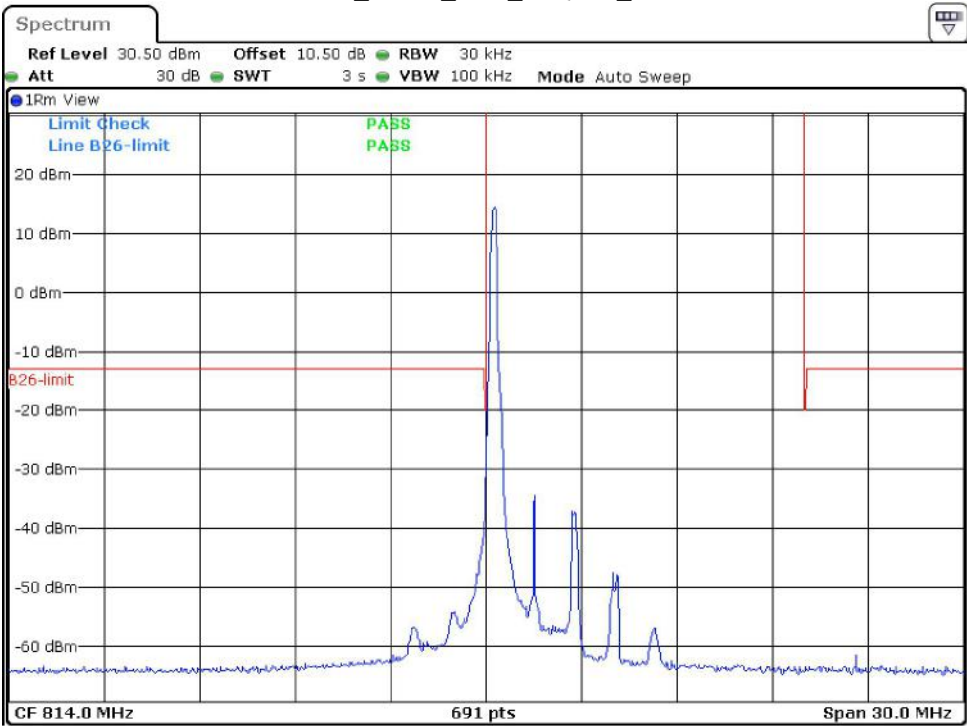
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Band 26_1.4 MHz_High_QPSK_RB1#Max



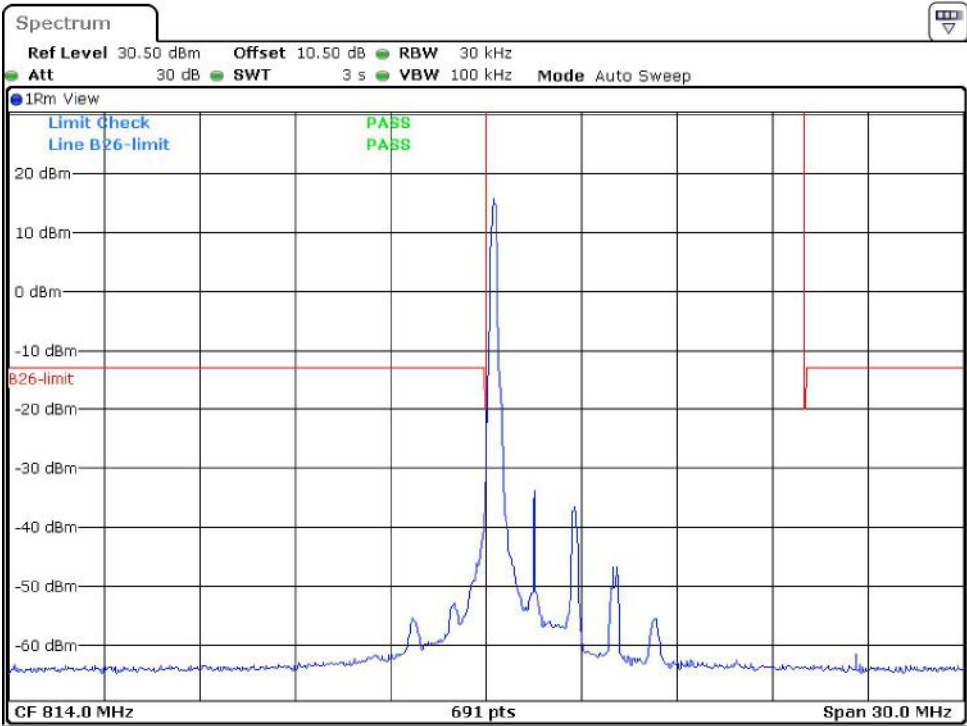
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Band 26_3MHz_Low_16QAM_RB1#0



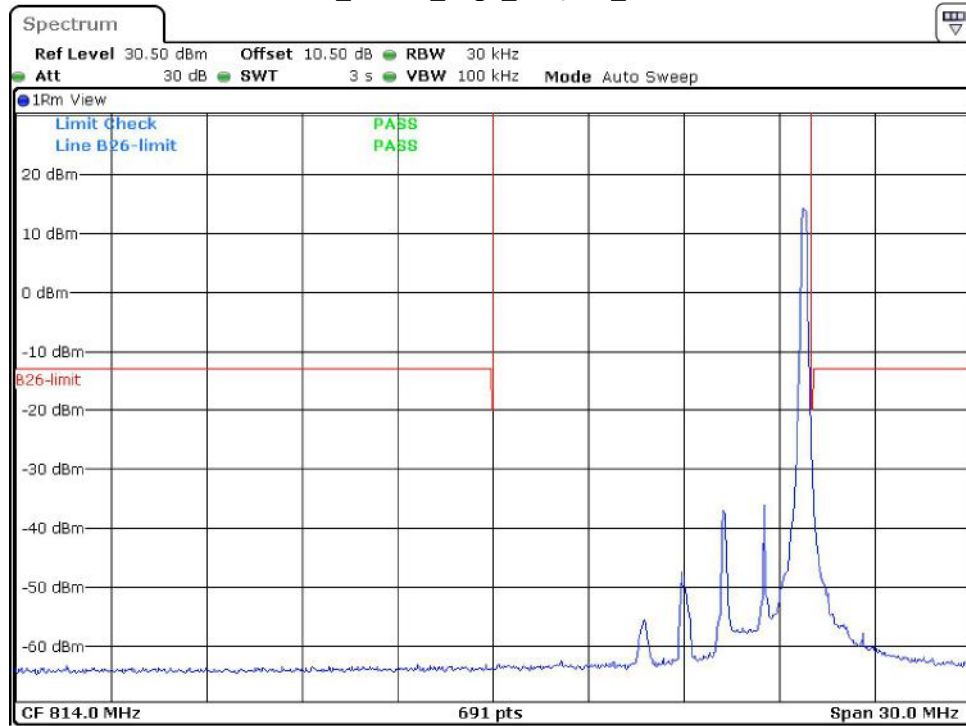
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Date: 26.JUL.2024 03:25:11

Band 26_3MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
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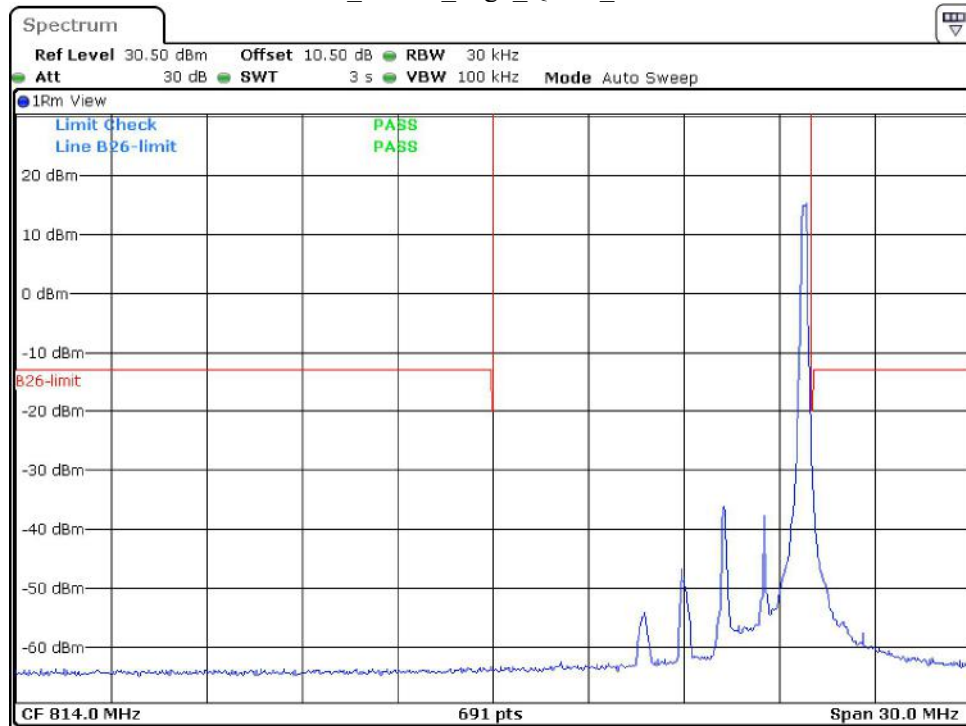
Band 26_3 MHz_High_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 26.JUL.2024 03:28:29

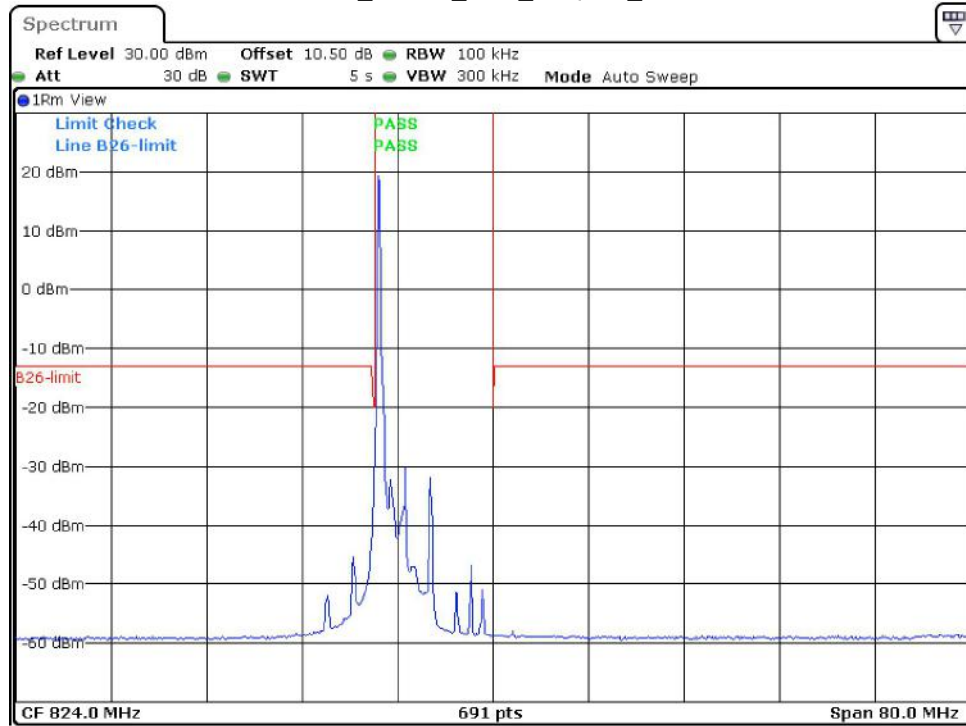
Band 26_3 MHz_High_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

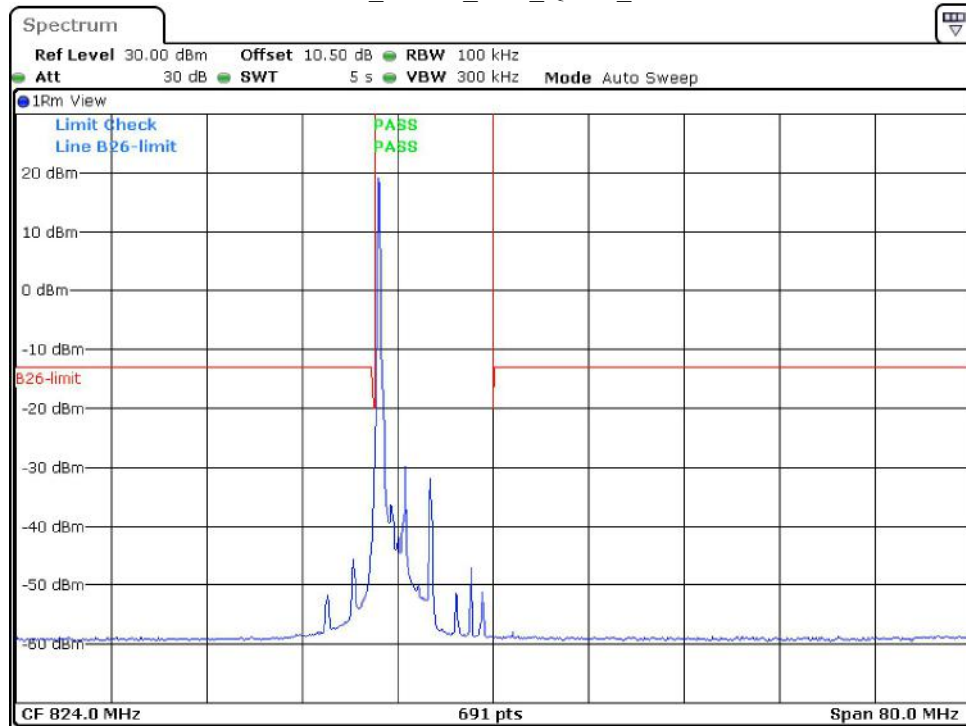
Date: 26.JUL.2024 03:29:40

Band 26_5 MHz_Low_16QAM_RB1#0



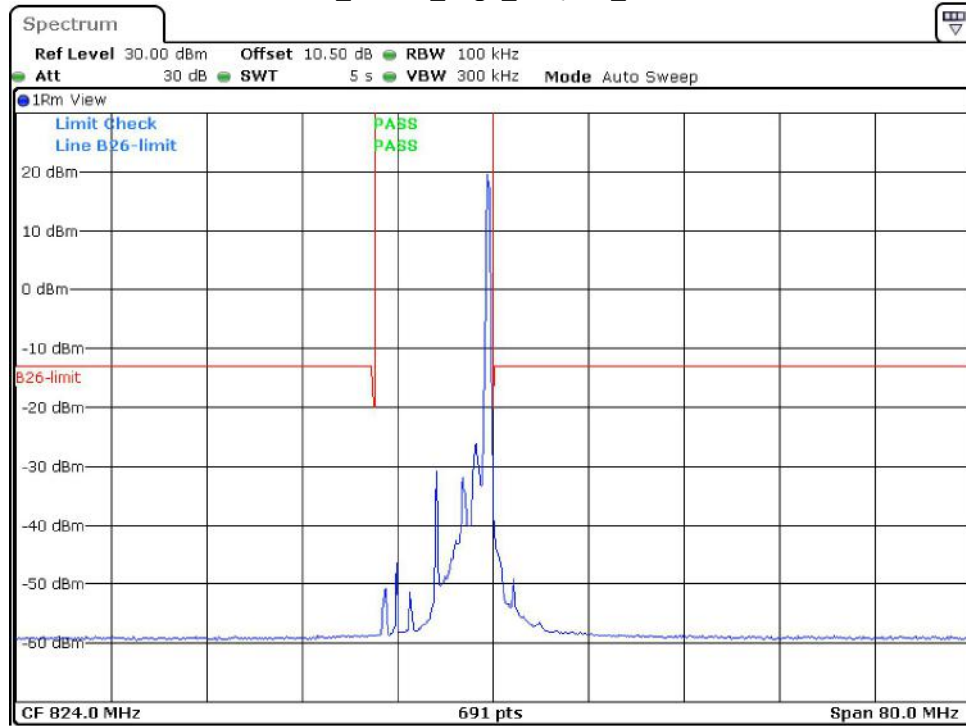
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Date: 28.JUL.2024 19:36:56

Band 26_5 MHz_Low_QPSK_RB1#0



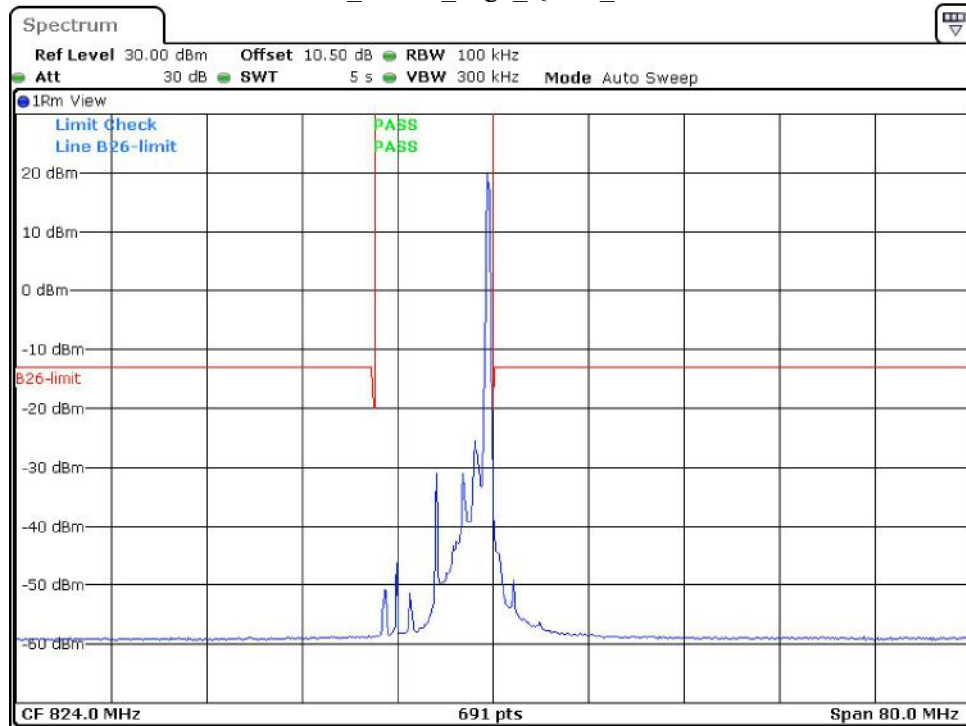
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Band 26_5 MHz_High_16QAM_RB1#Max



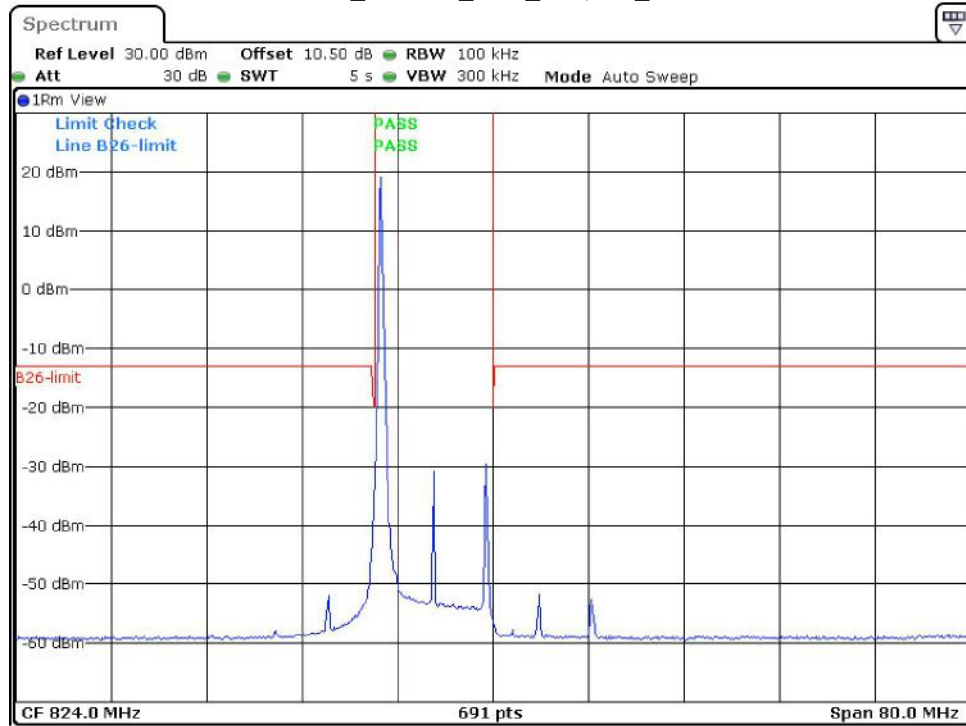
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Band 26_5 MHz_High_QPSK_RB1#Max



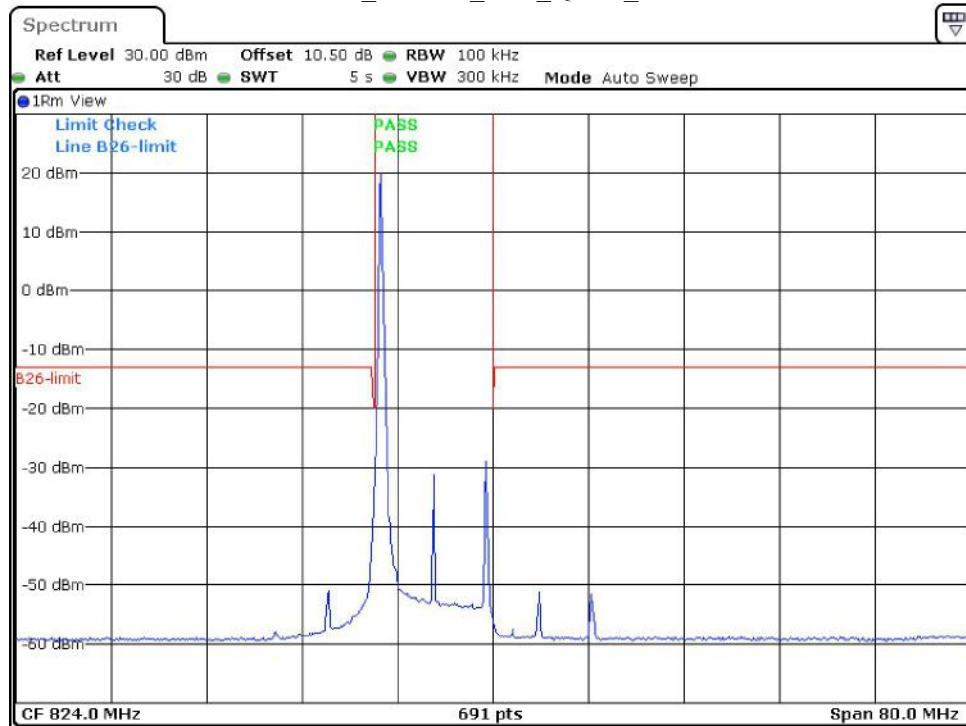
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 Date: 28.JUL.2024 19:28:31

Band 26_10 MHz_Low_16QAM_RB1#0



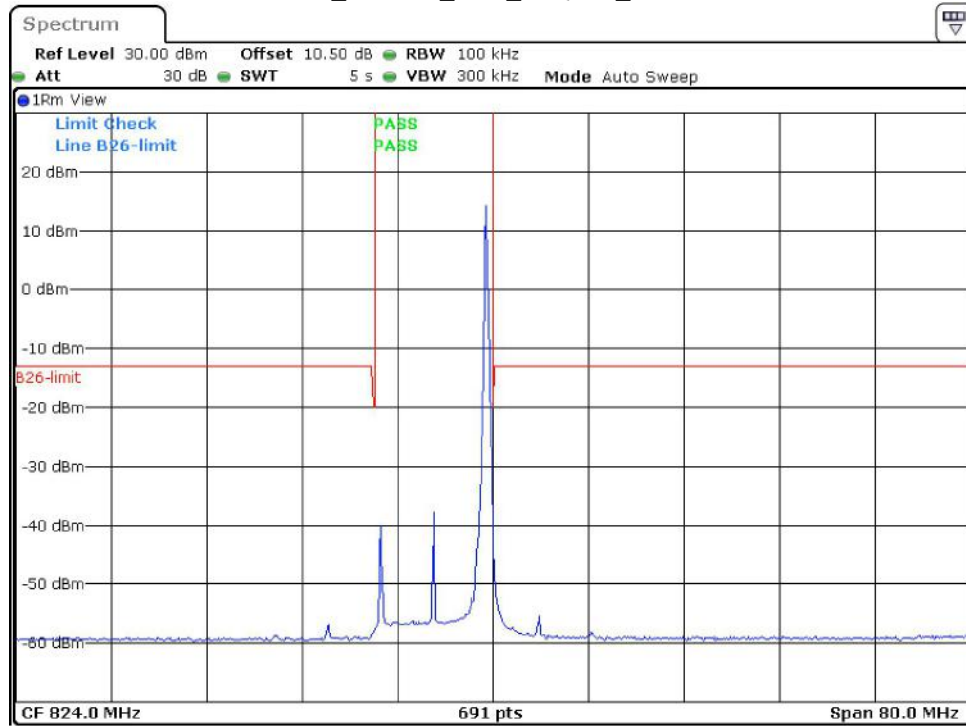
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 28.JUL.2024 19:33:50

Band 26_10 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 28.JUL.2024 19:33:18

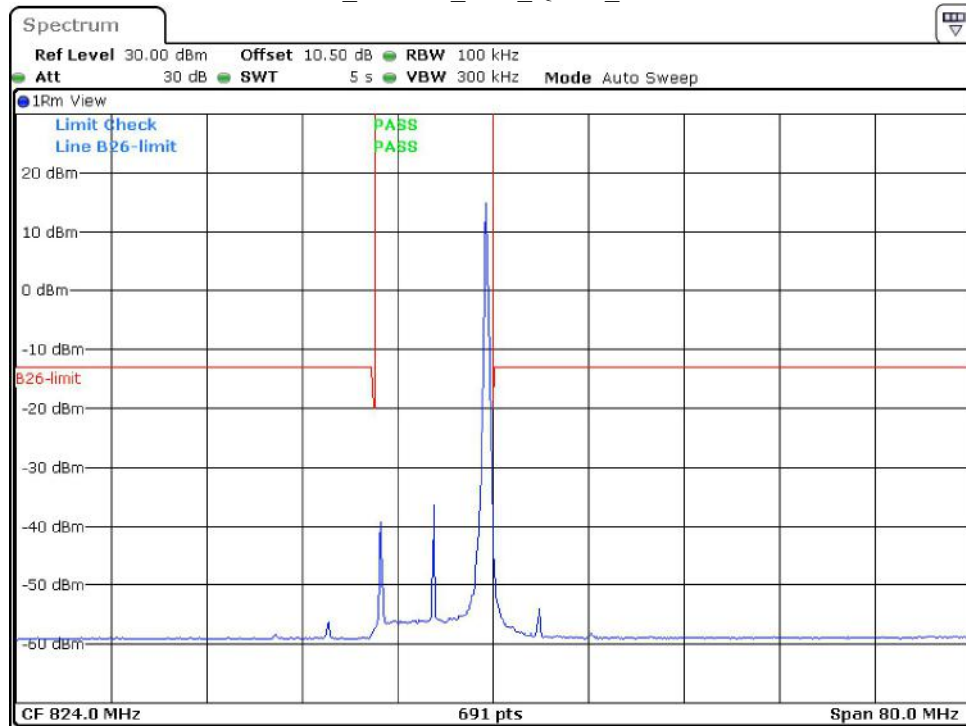
Band 26_10 MHz_Low_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 6.AUG.2024 21:56:33

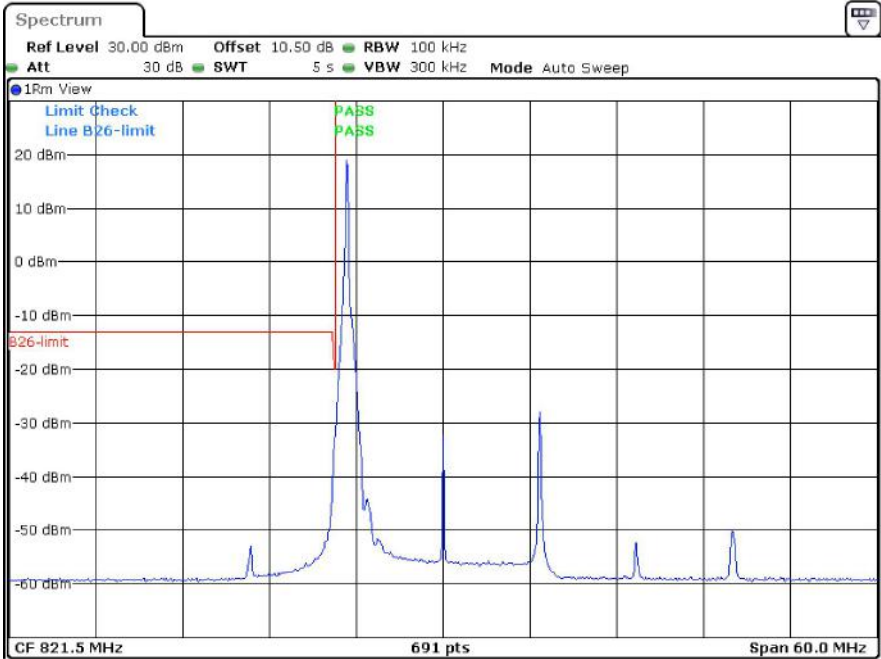
Band 26_10 MHz_Low_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

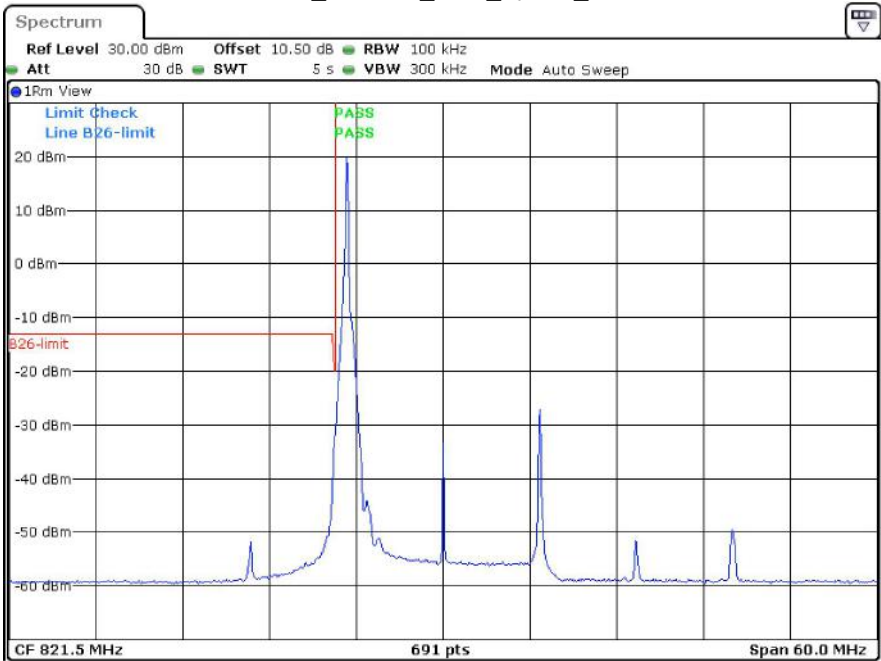
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Band 26 15 MHz Low 16QAM RB1#0



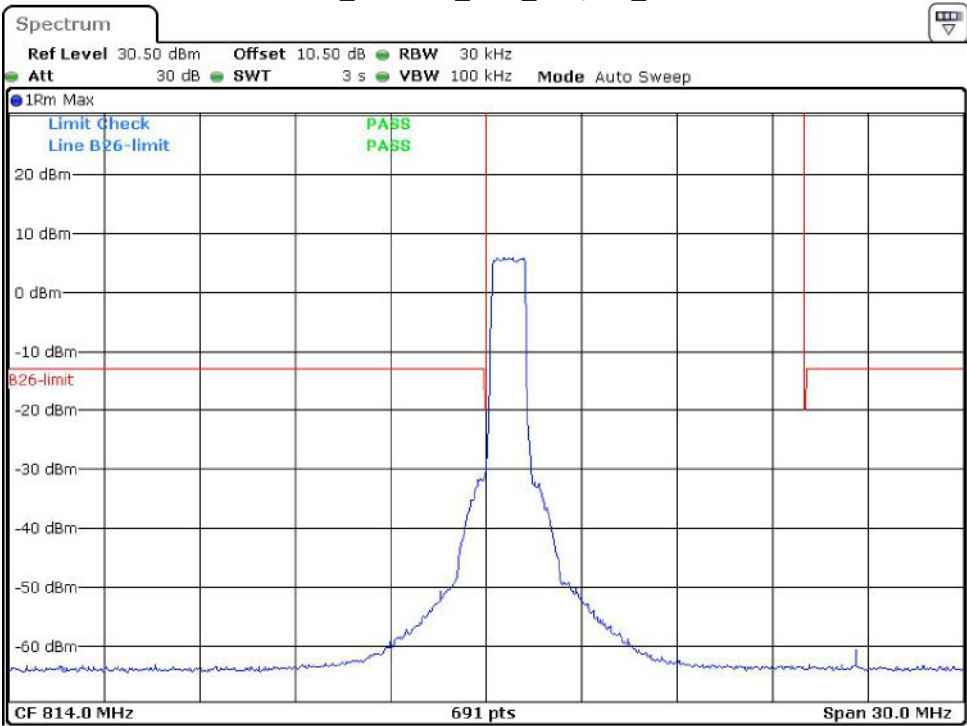
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Date: 28.JUL.2024 19:48:13

Band 26_15 MHz_Low_QPSK_RB1#0



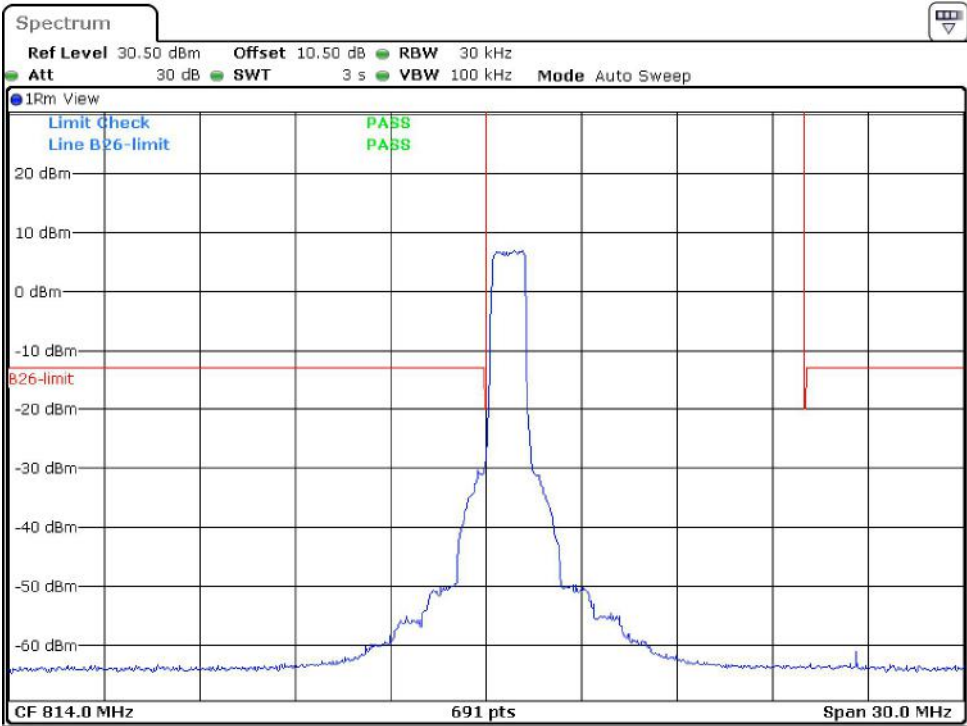
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Date: 28.JUL.2024 19:47:10

Band 26_1.4 MHz_Low_16QAM_RB6#0



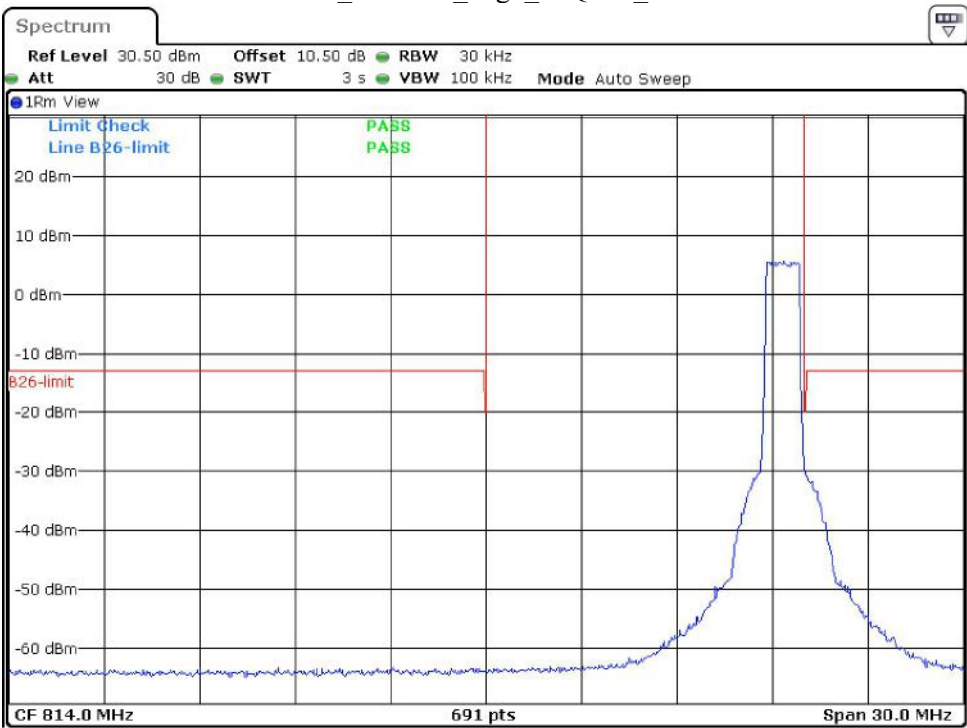
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Band 26_1.4 MHz_Low_QPSK_RB6#0



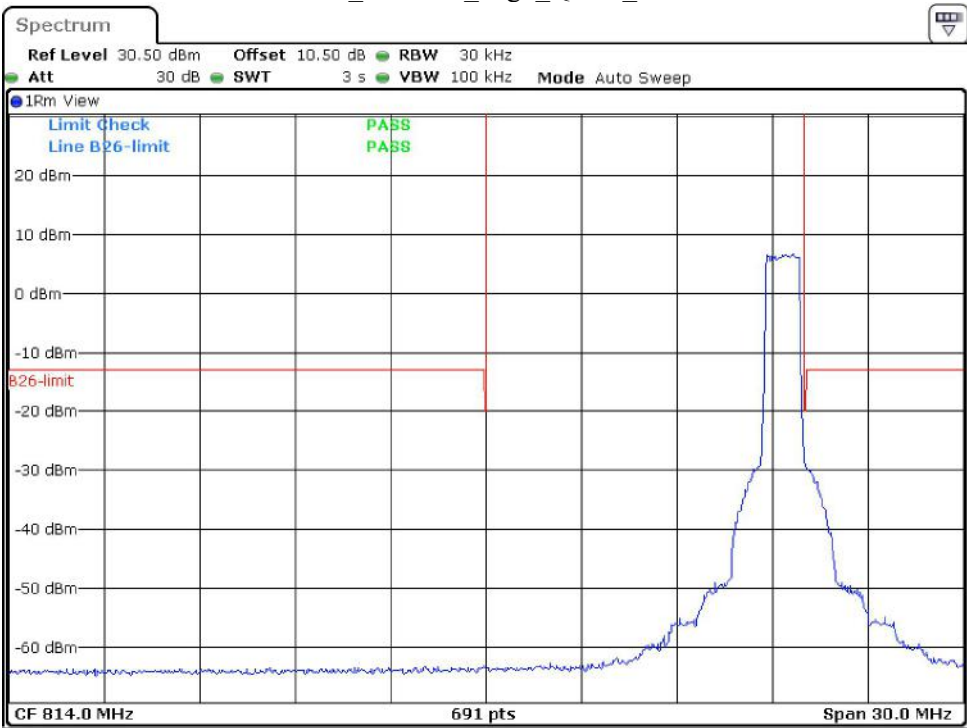
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Date: 26.JUL.2024 03:15:51

Band 26_1.4 MHz_High_16QAM_RB6#0



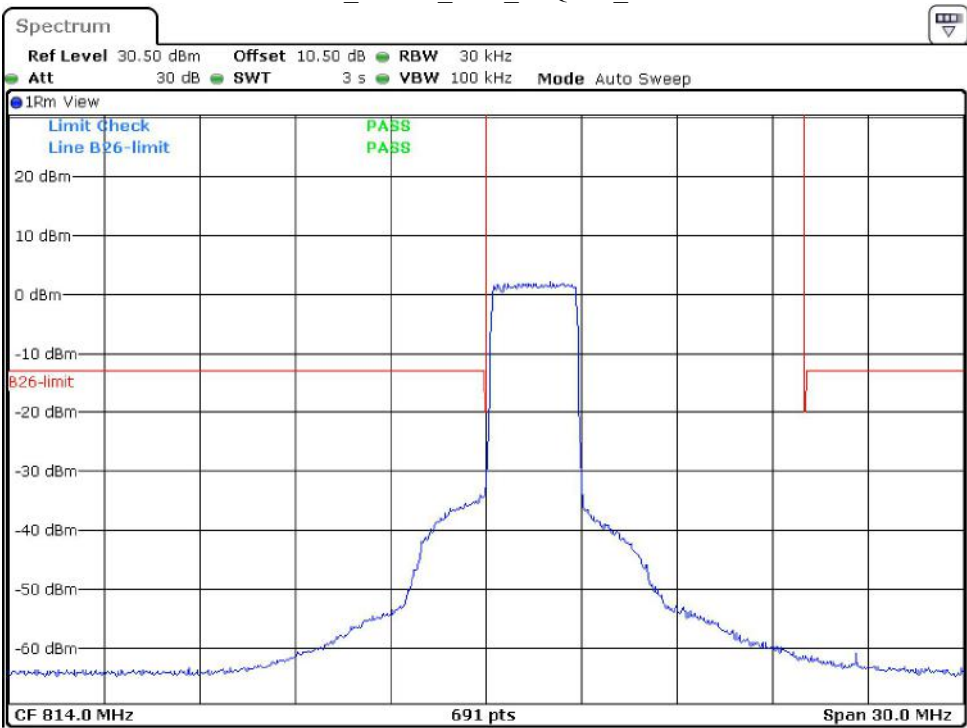
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Date: 26.JUL.2024 03:21:24

Band 26_1.4 MHz_High_QPSK_RB6#0



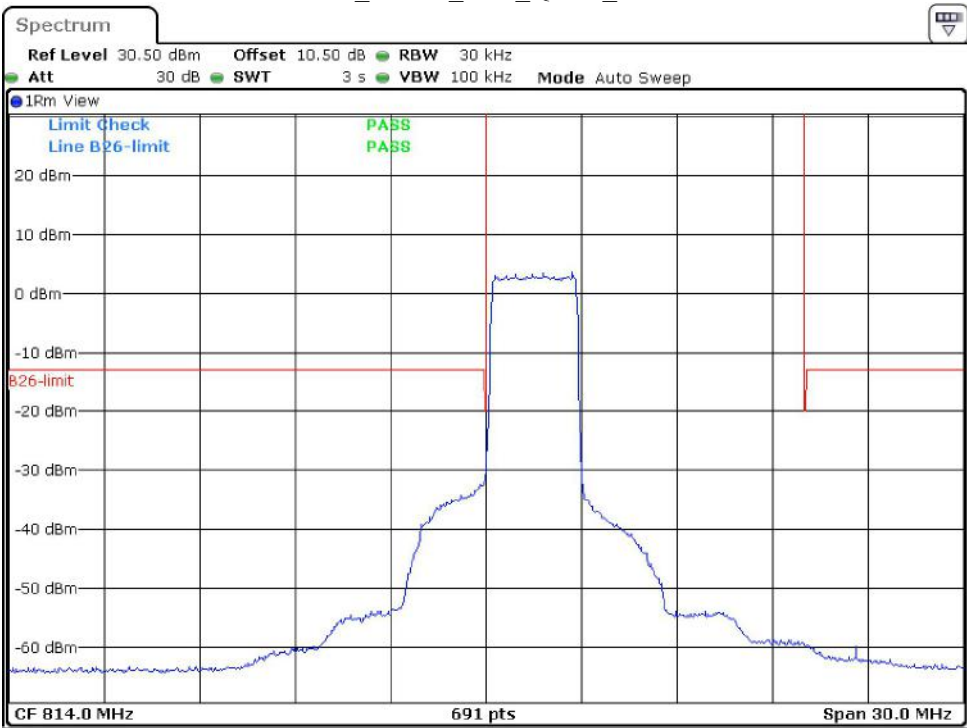
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Date: 26.JUL.2024 03:21:54

Band 26_3 MHz_Low_16QAM_RB15#0



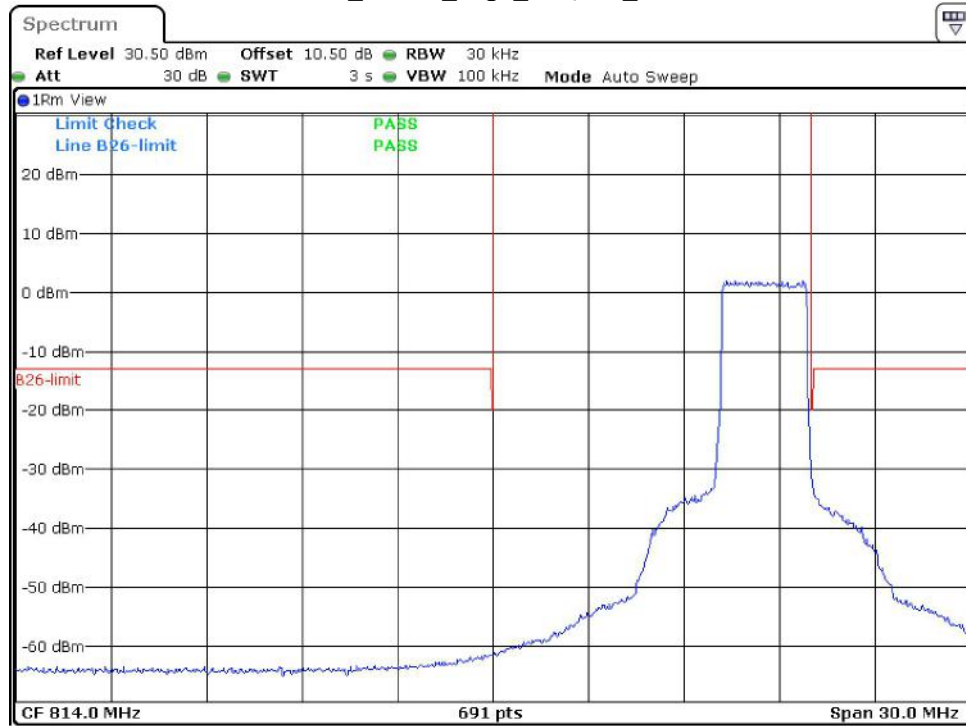
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Band 26_3 MHz_Low_QPSK_RB15#0



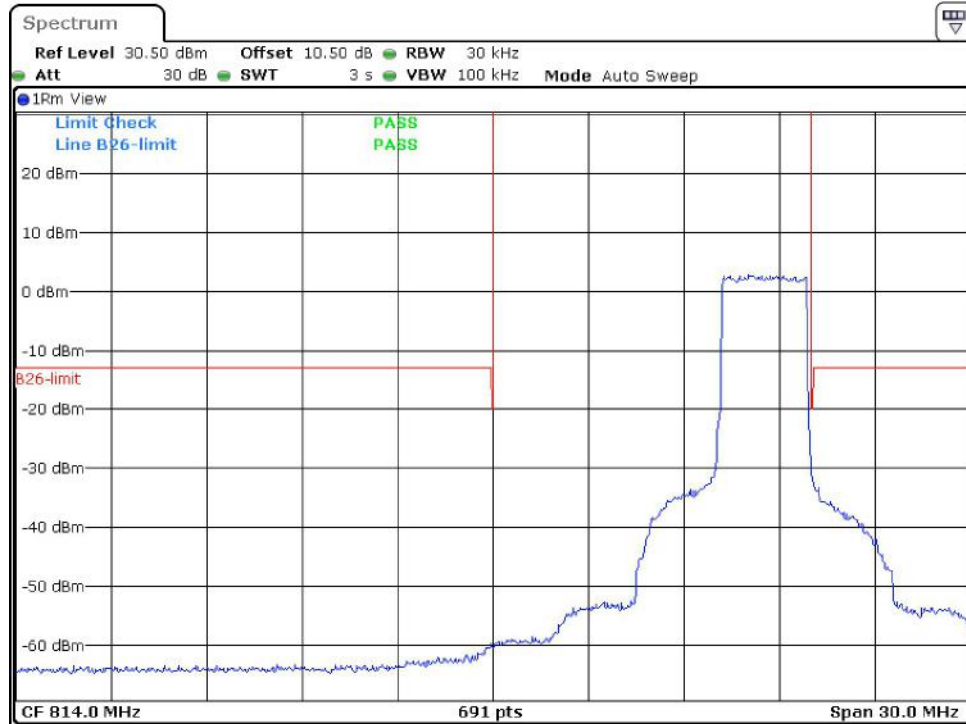
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Band 26_3 MHz_High_16QAM_RB15#0



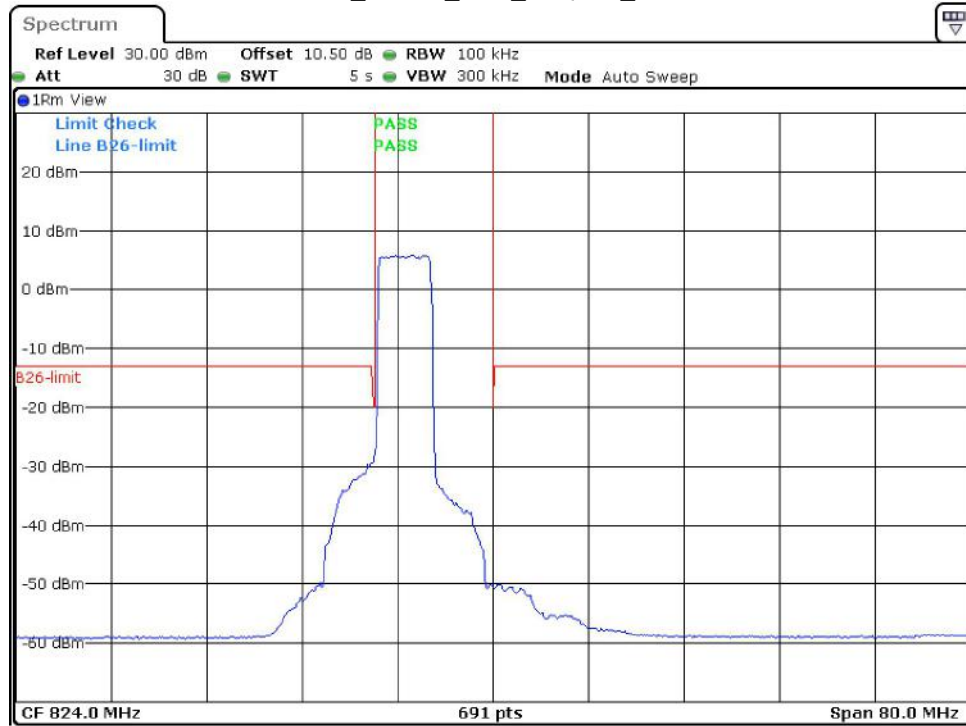
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Band 26_3 MHz_High_QPSK_RB15#0



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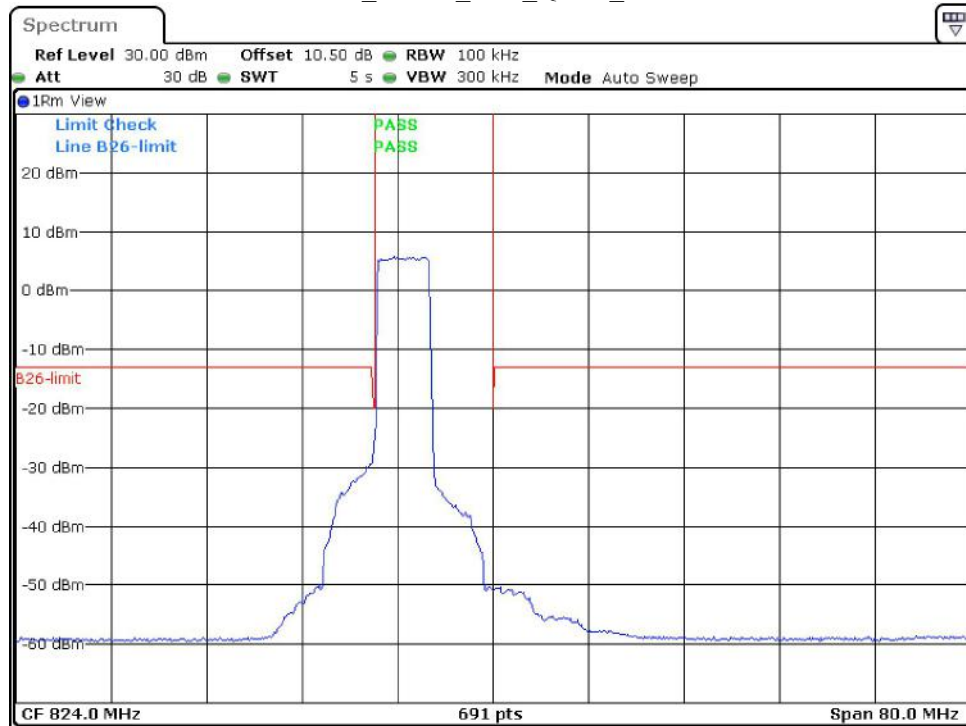
Band 26_5 MHz_Low_16QAM_RB25#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

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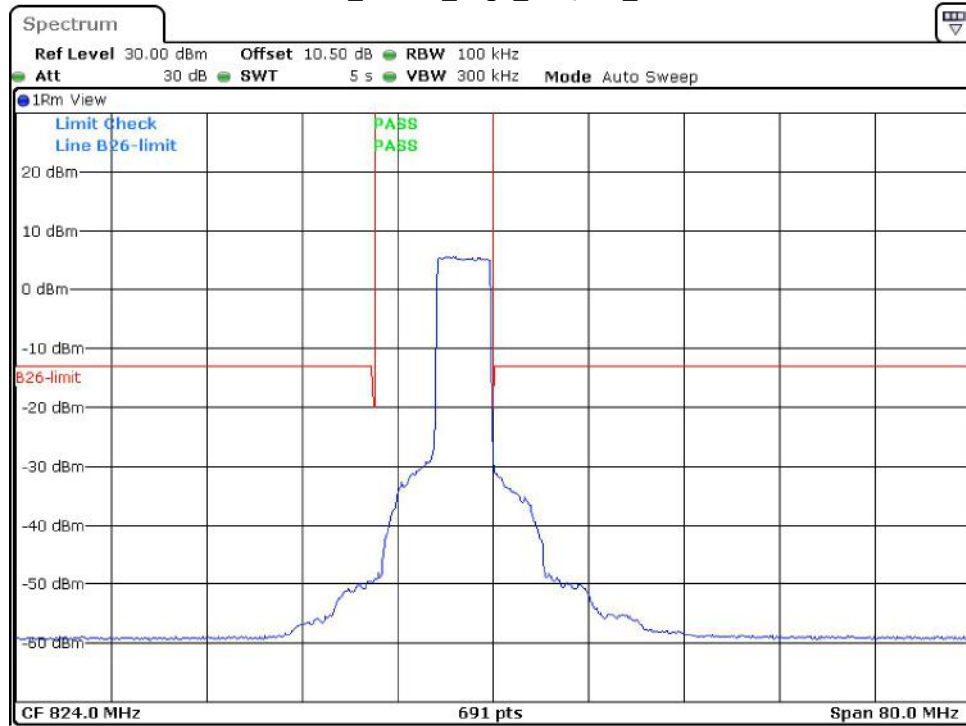
Band 26_5 MHz_Low_QPSK_RB25#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

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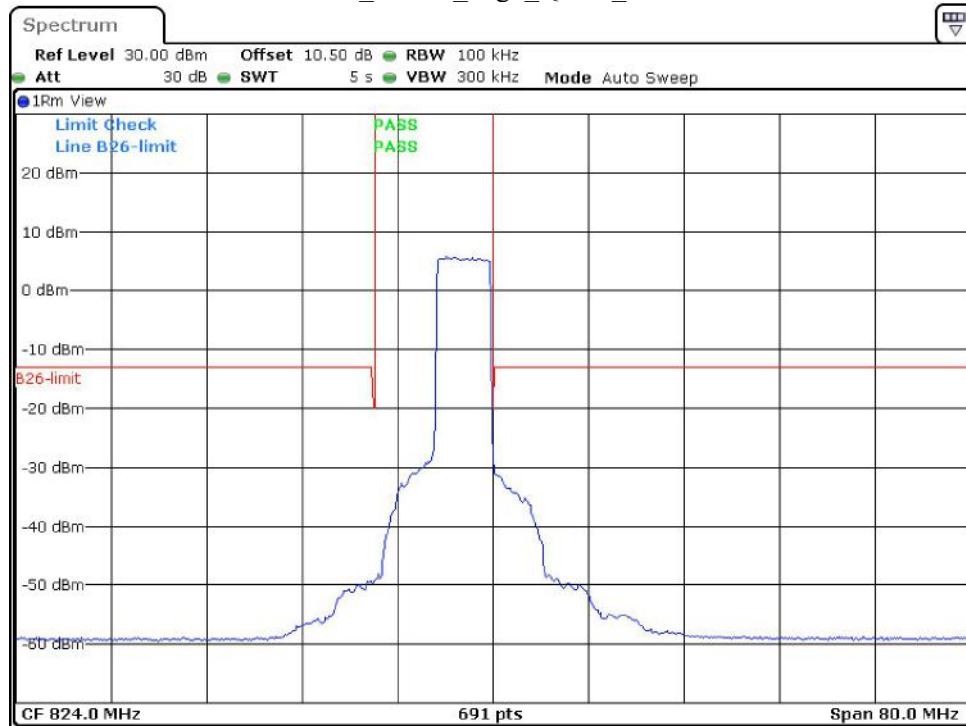
Band 26_5 MHz_High_16QAM_RB25#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

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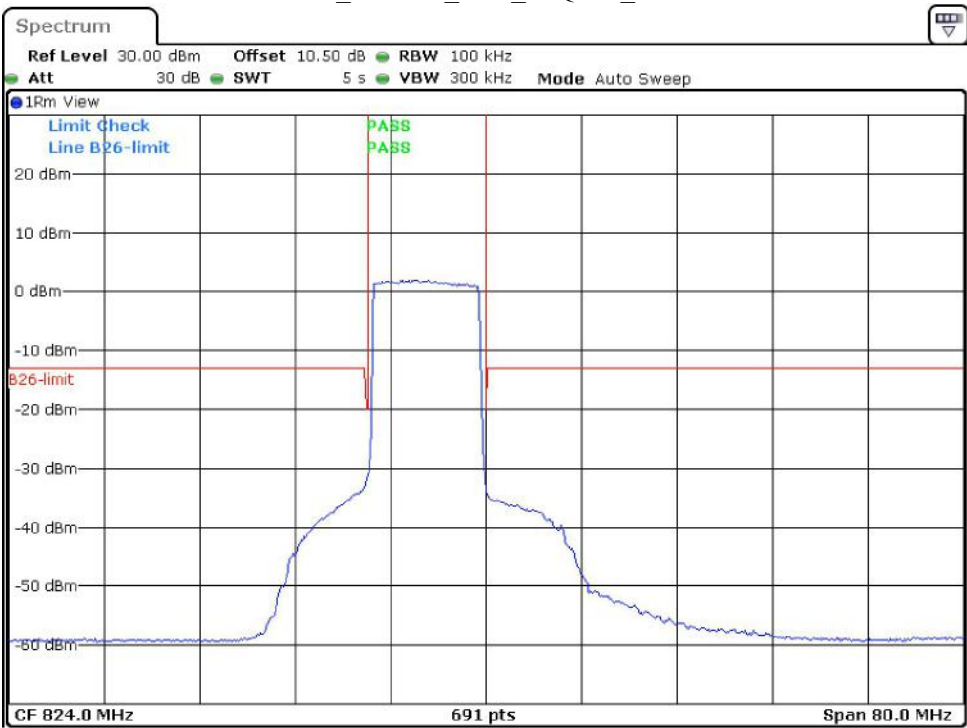
Band 26_5 MHz_High_QPSK_RB25#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

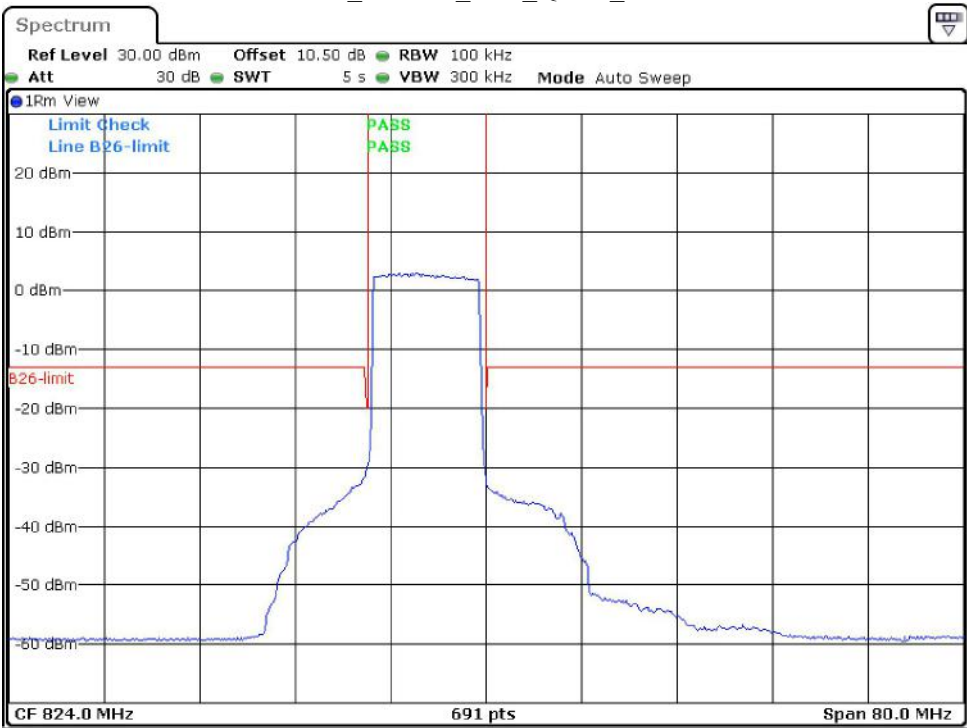
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Band 26_10 MHz_Low_16QAM_RB50#0



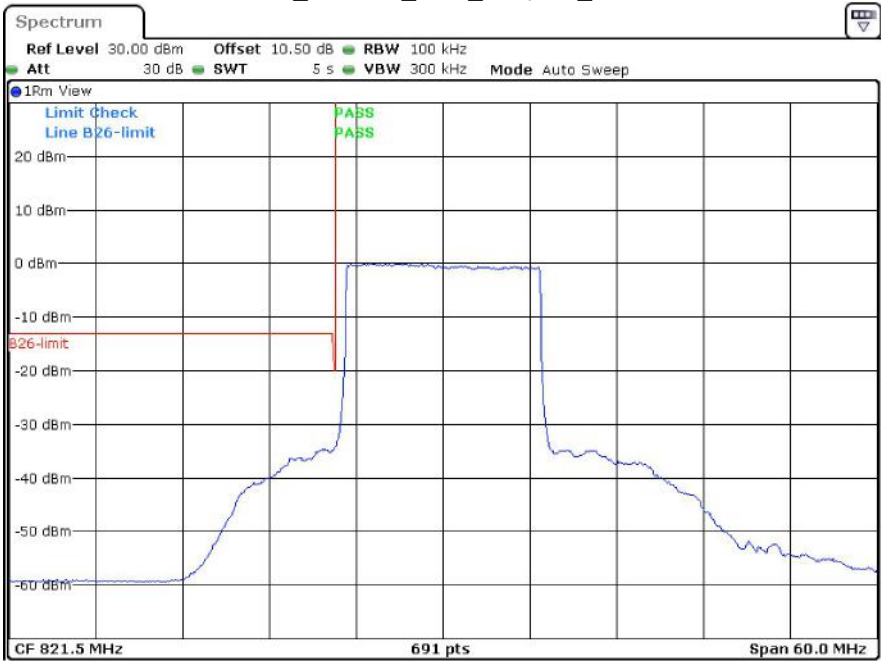
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Band 26_10 MHz_Low_QPSK_RB50#0



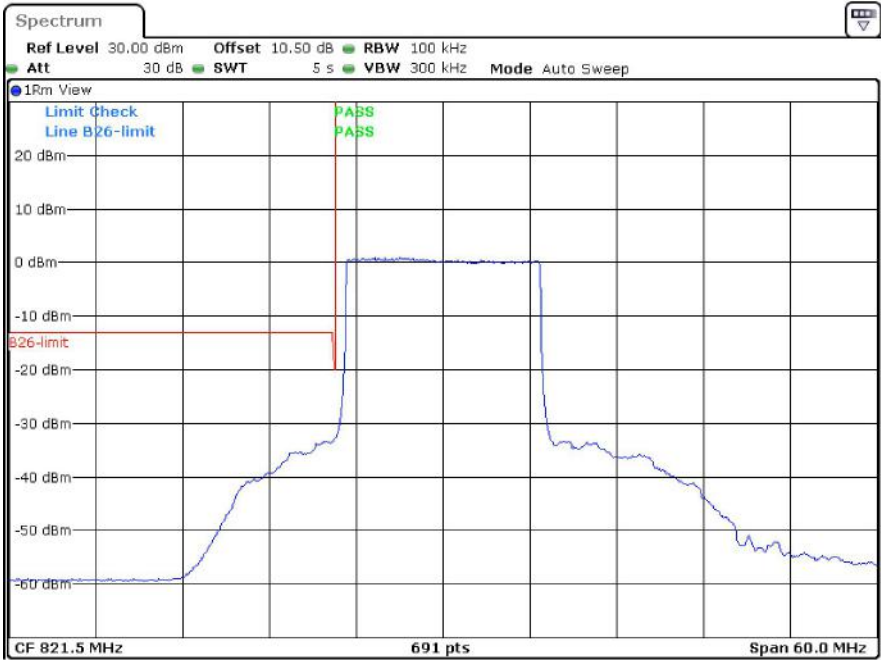
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 28.JUL.2024 19:32:51

Band 26_15 MHz_Low_16QAM_RB75#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 28.JUL.2024 19:47:50

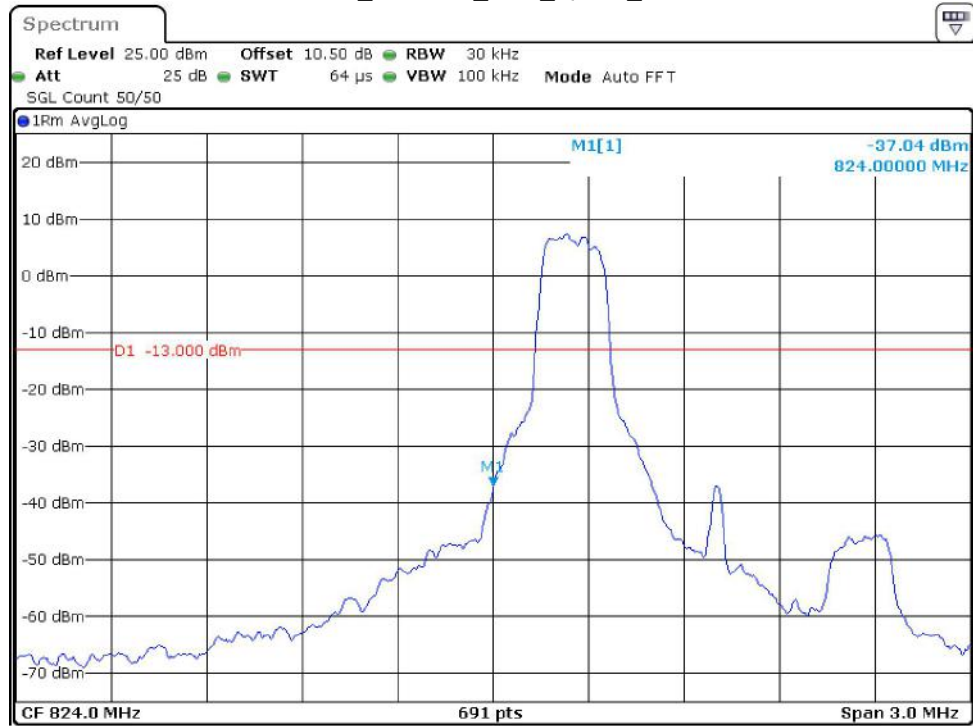
Band 26_15 MHz_Low_QPSK_RB75#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 28.JUL.2024 19:46:34

LTE Band 26(Part 22H):

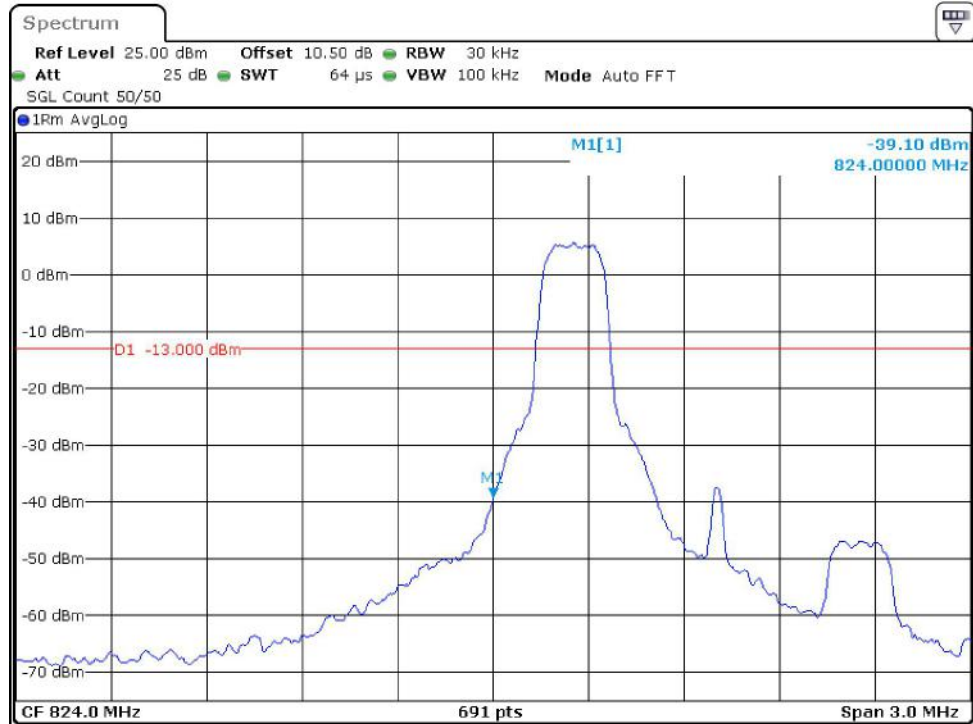
Band 26_1.4 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:02:00

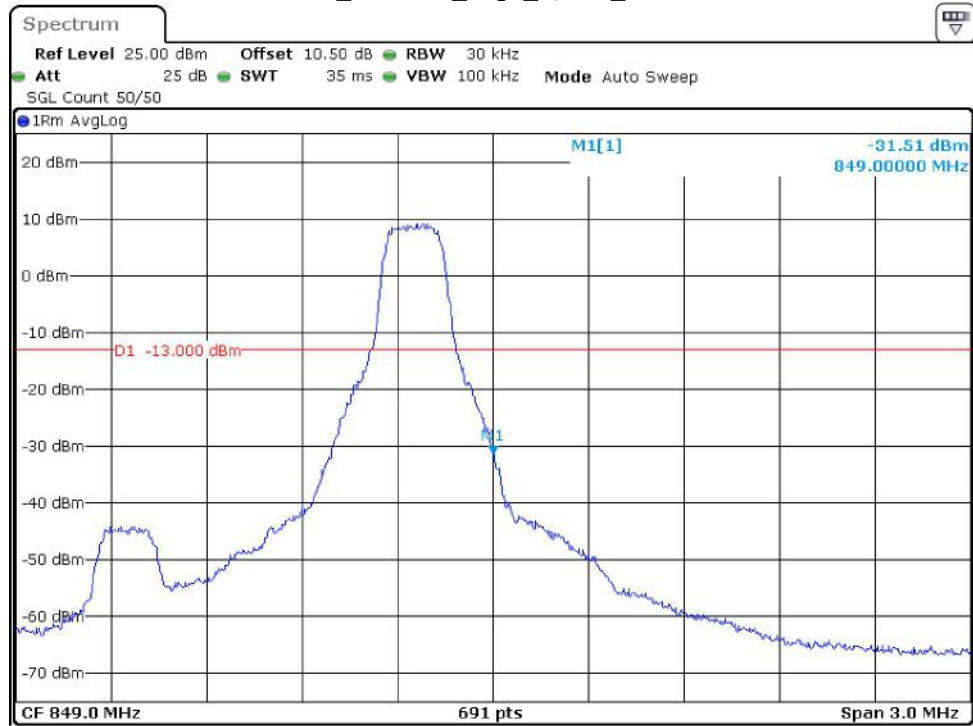
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ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:03:05

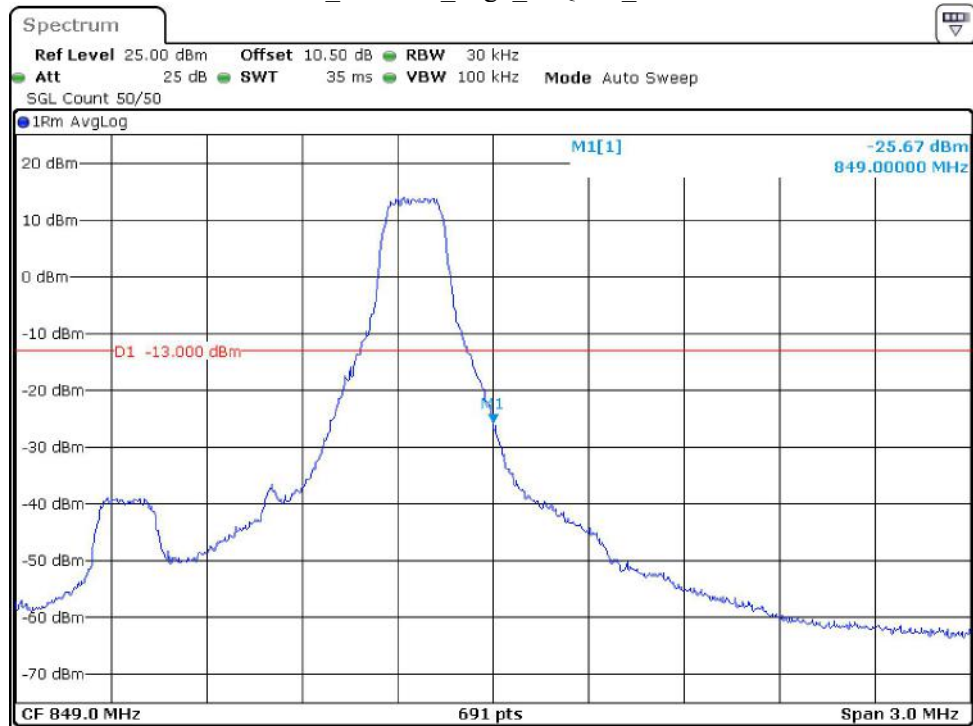
Band 26_1.4 MHz_High_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:36:28

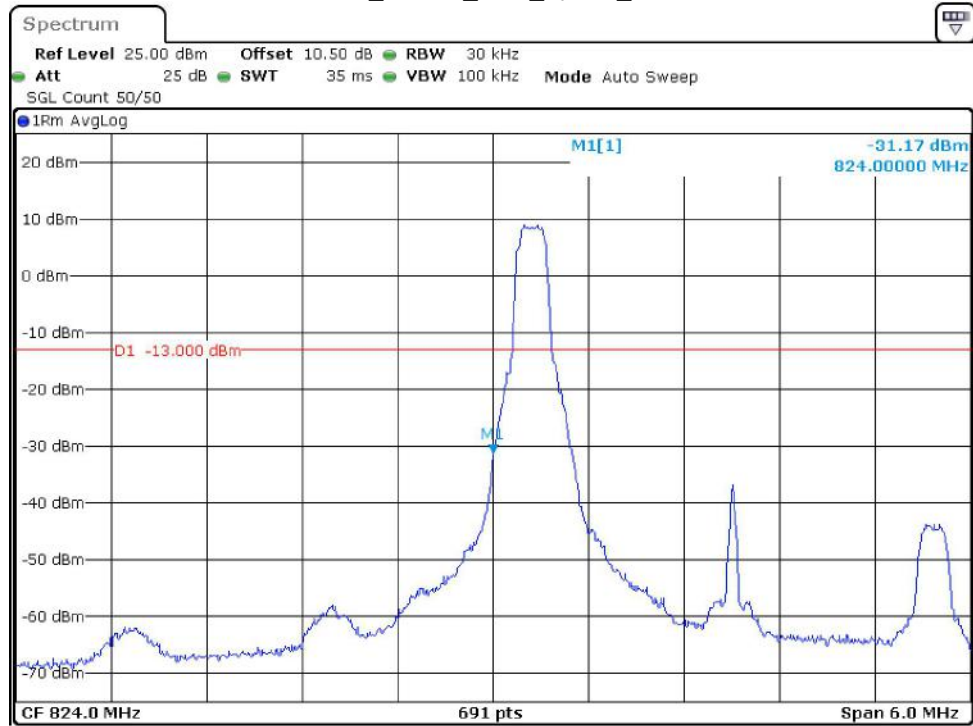
Band 26_1.4 MHz_High_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:28:20

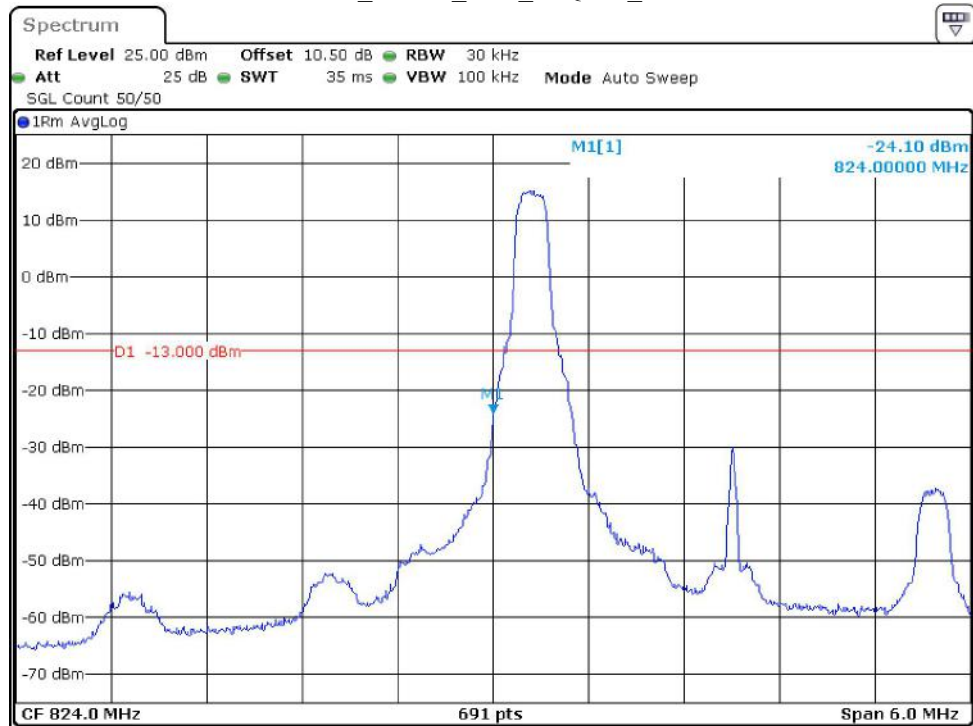
Band 26_3 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:10:46

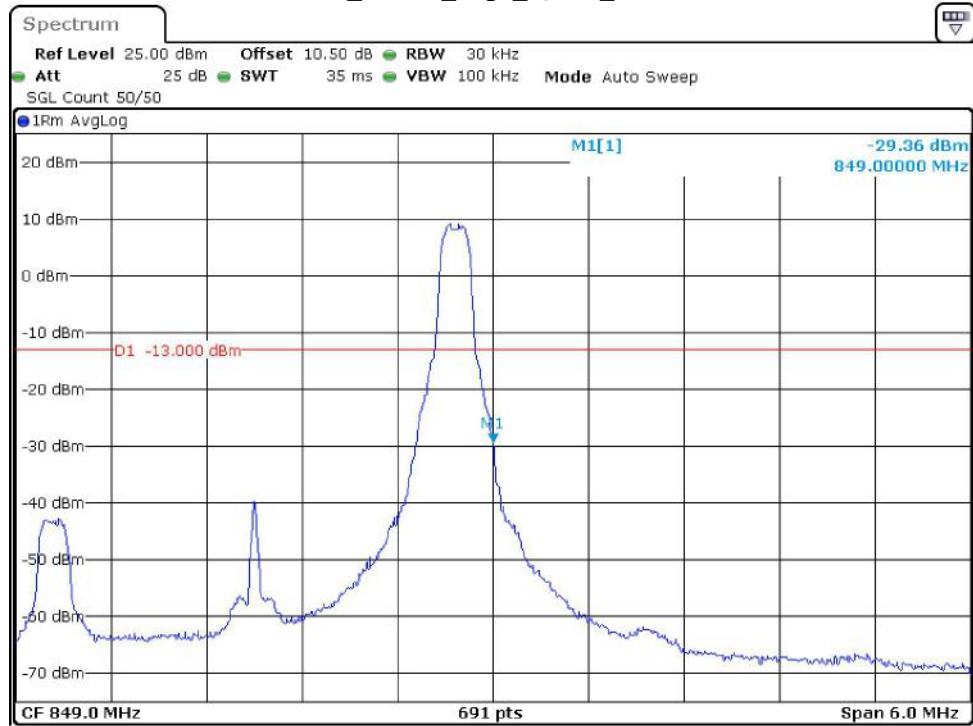
Band 26_3 MHz_Low_16QAM_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:29:10

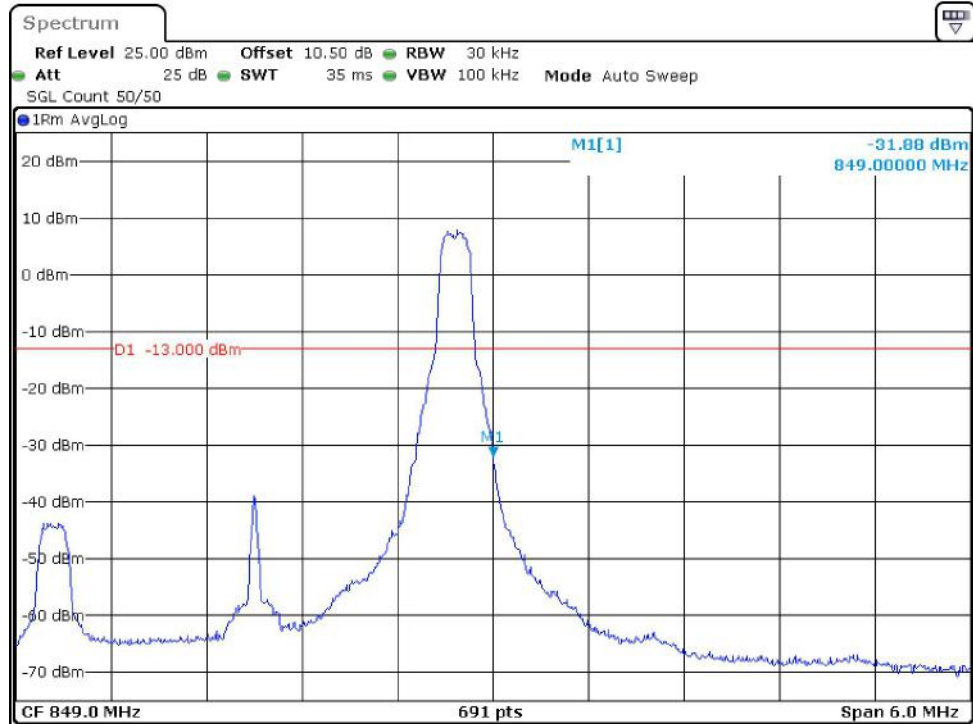
Band 26_3 MHz_High_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:30:07

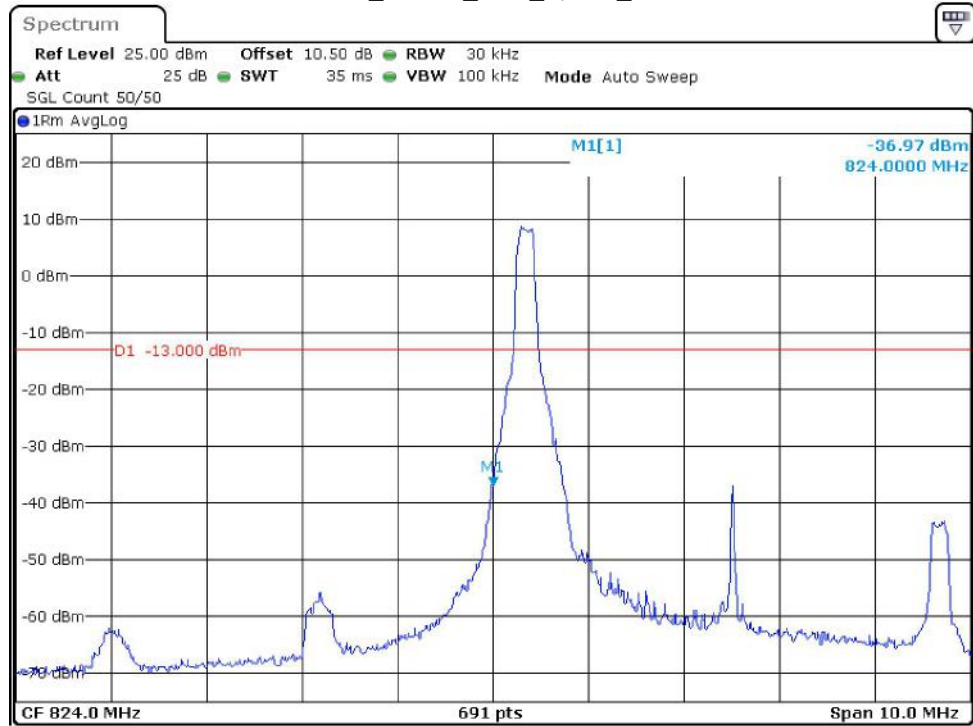
Band 26_3 MHz_High_16QAM_RB1#Max



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Date: 7.AUG.2024 04:30:38

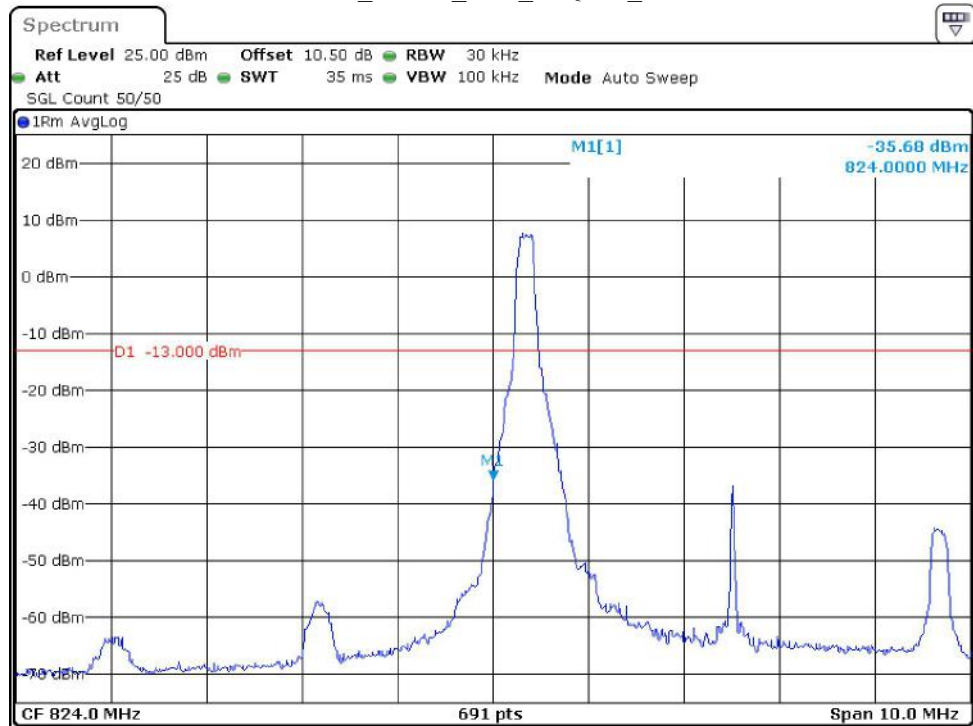
Band 26_5 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:11:57

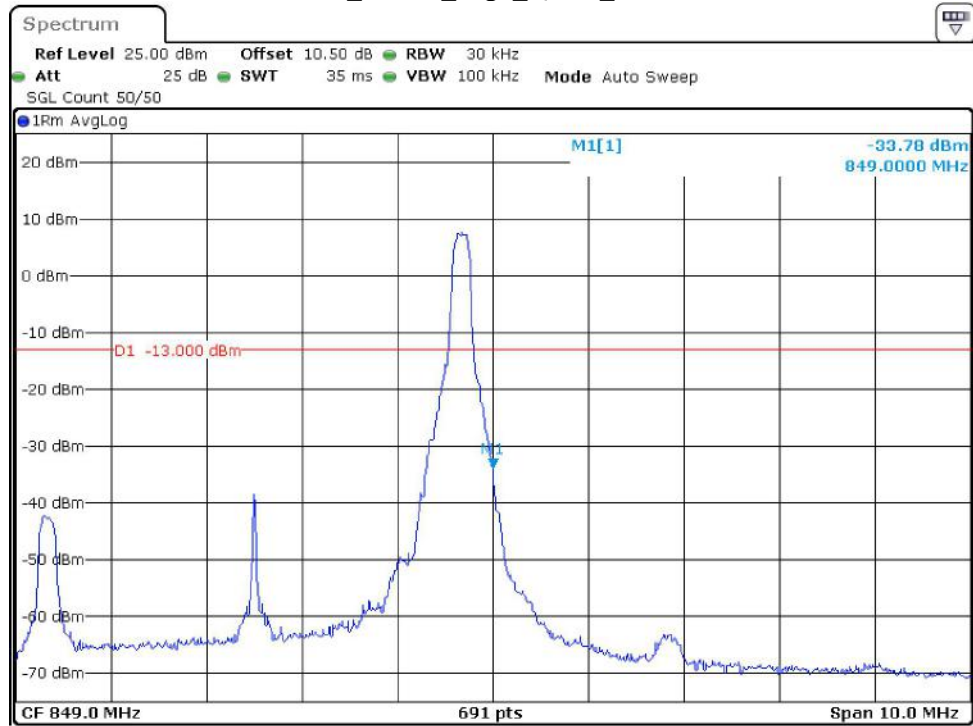
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ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:31:55

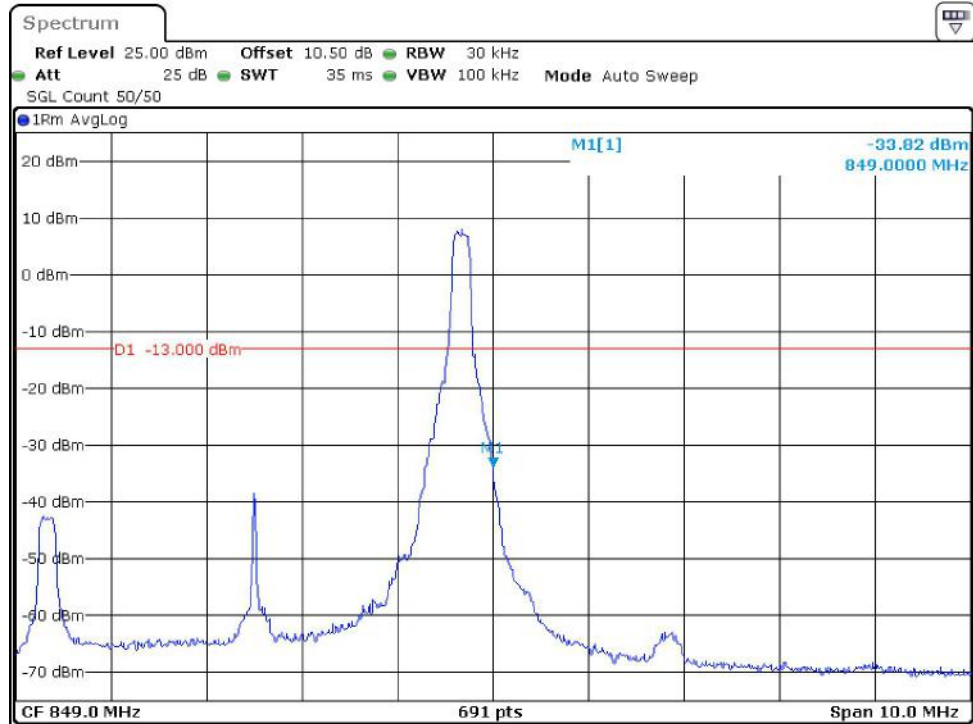
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Date: 7.AUG.2024 04:38:24

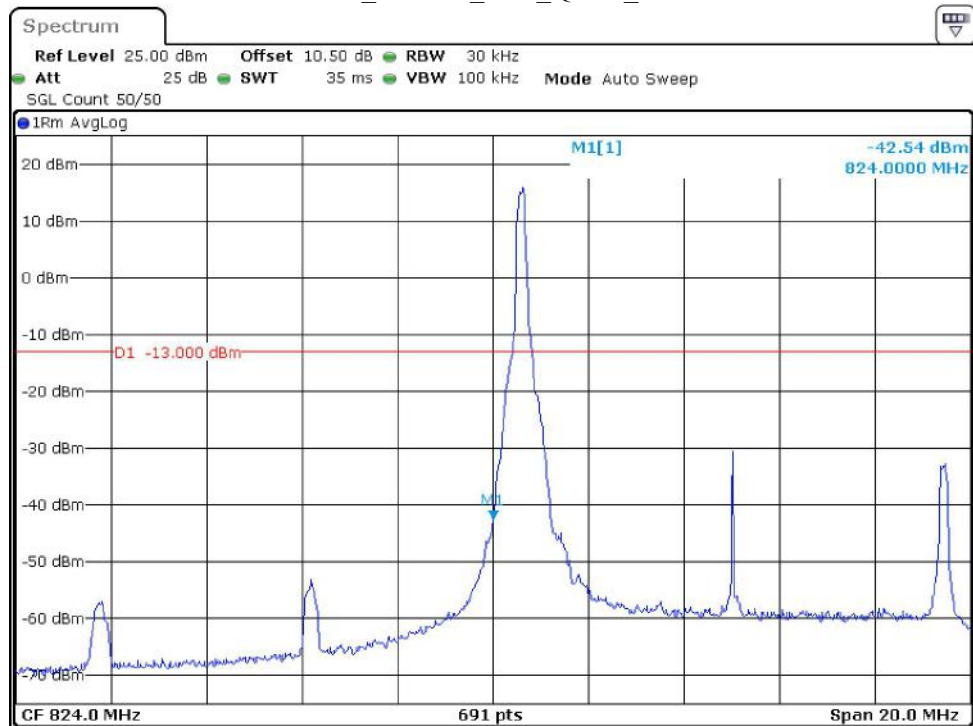
Band 26_5 MHz_High_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:32:59

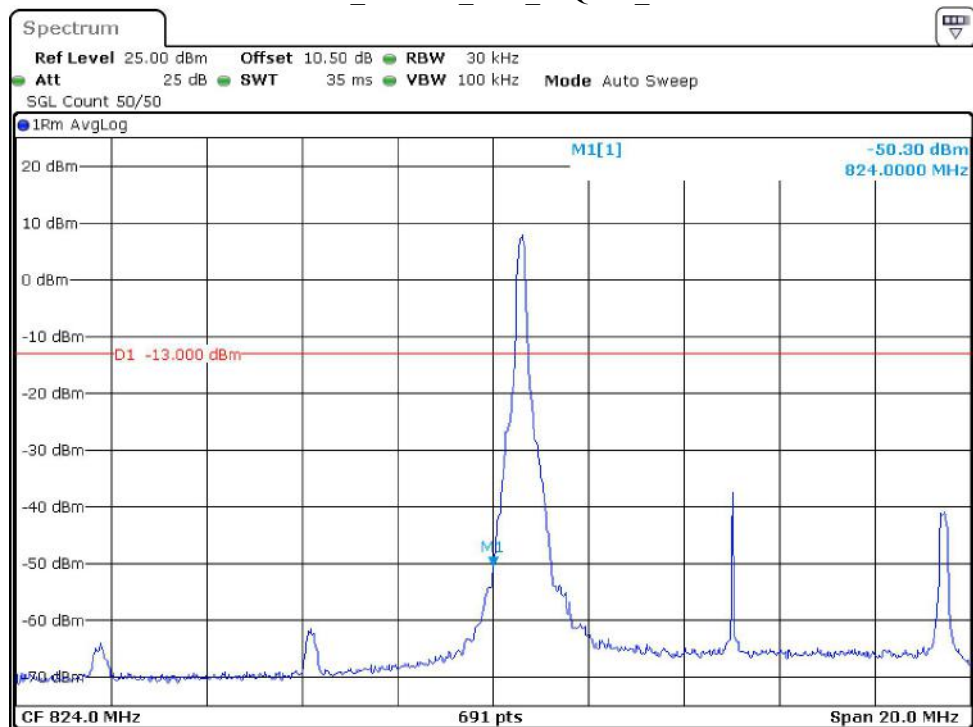
Band 26_10 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:16:25

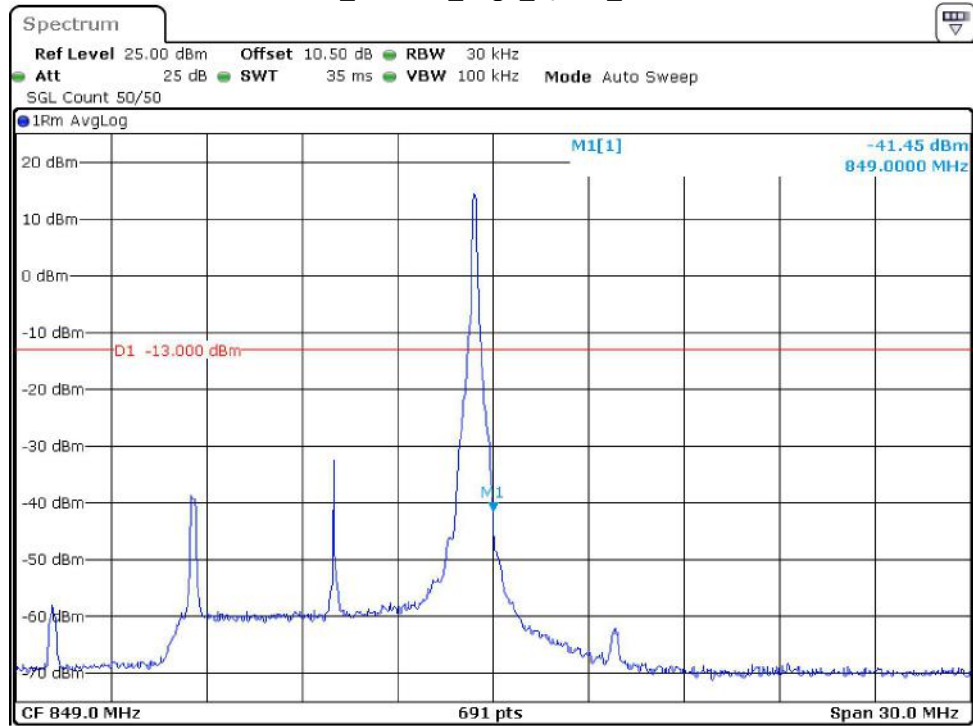
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ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:34:00

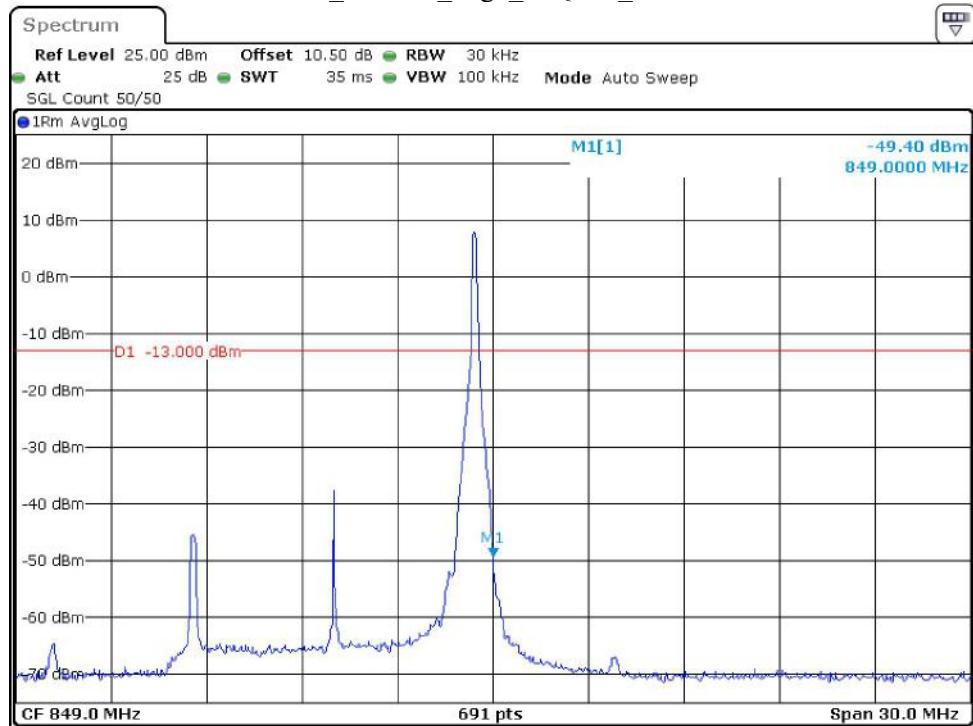
Band 26_10 MHz_High_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:23:23

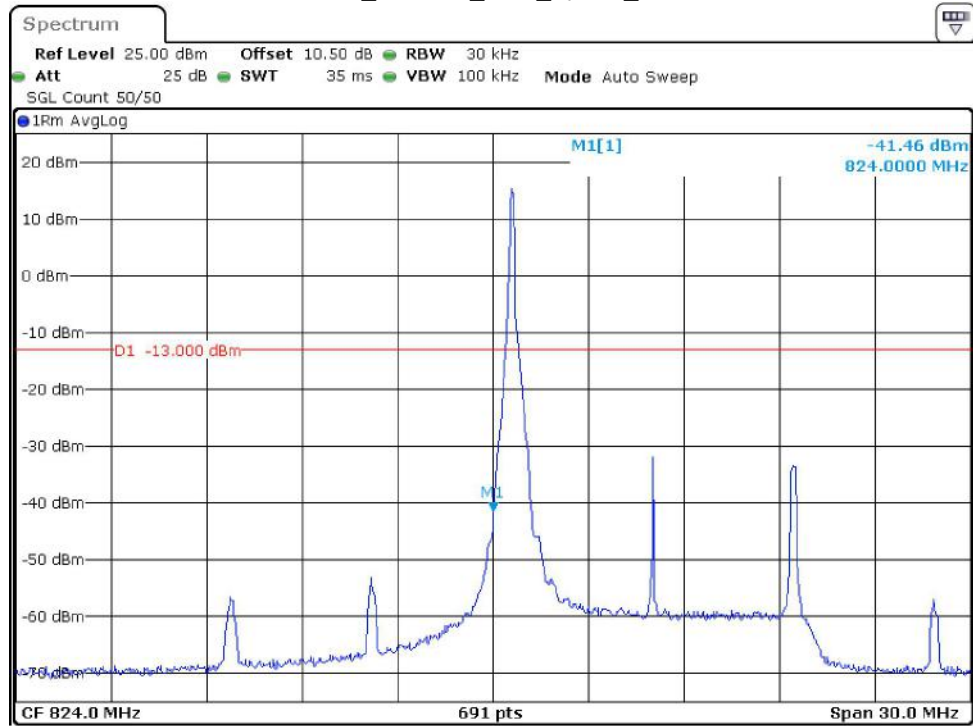
Band 26_10 MHz_High_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:23:45

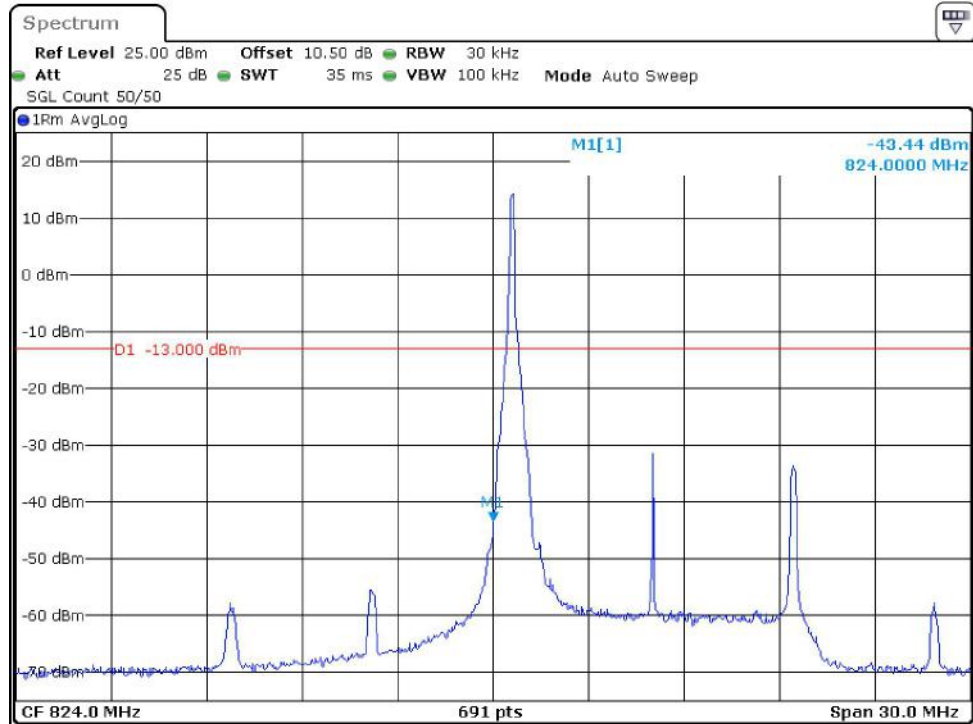
Band 26_15 MHz_Low_QPSK_RB1#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:21:58

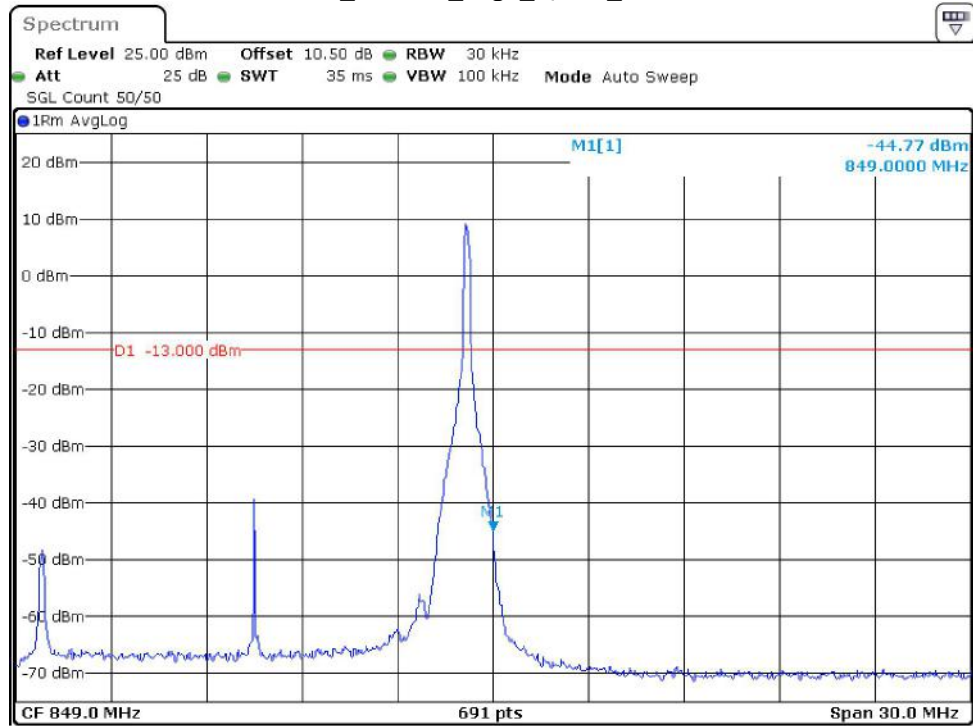
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ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:21:23

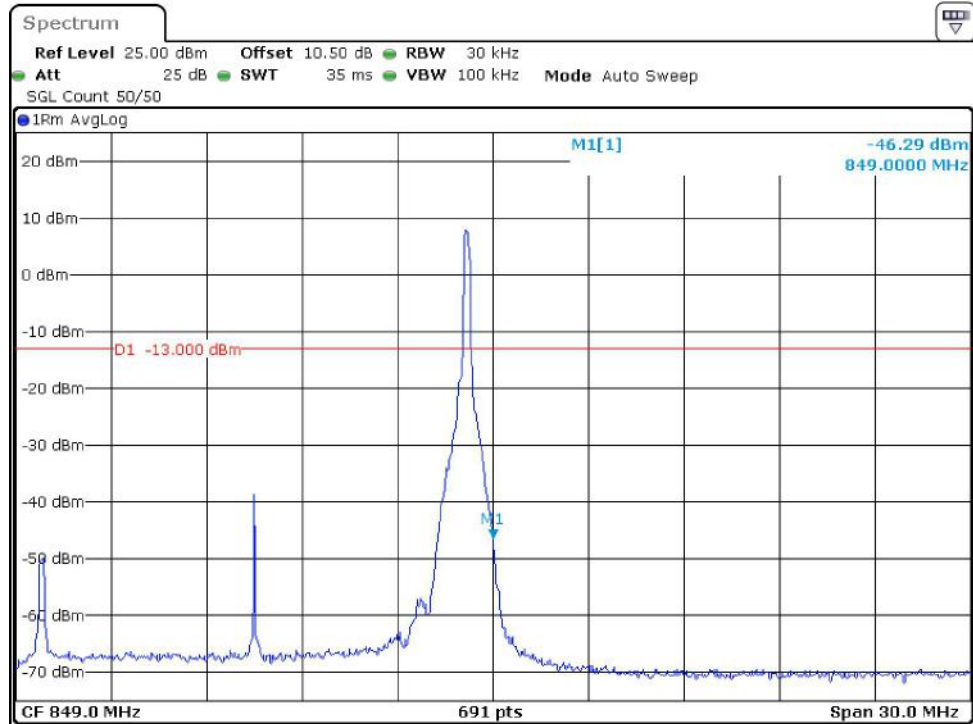
Band 26_15 MHz_High_QPSK_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:26:01

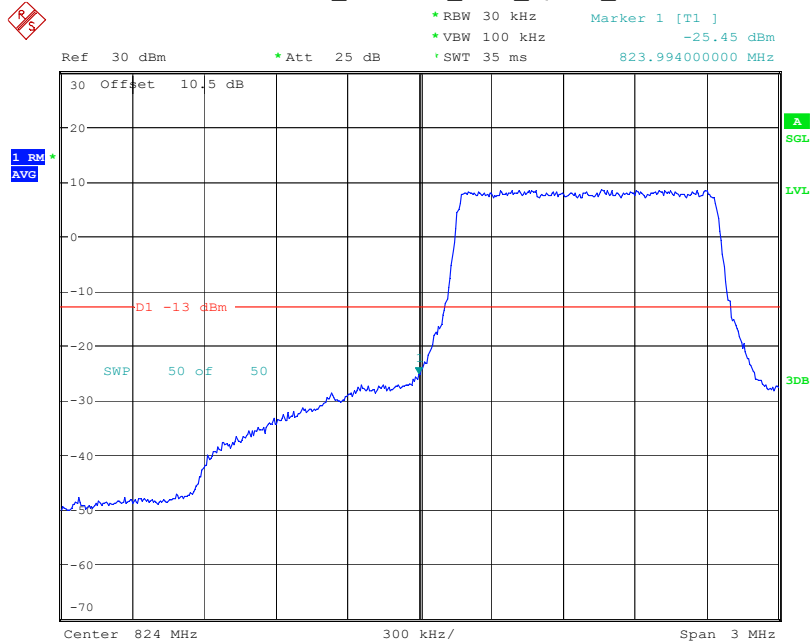
Band 26_15 MHz_High_16QAM_RB1#Max



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 7.AUG.2024 04:25:35

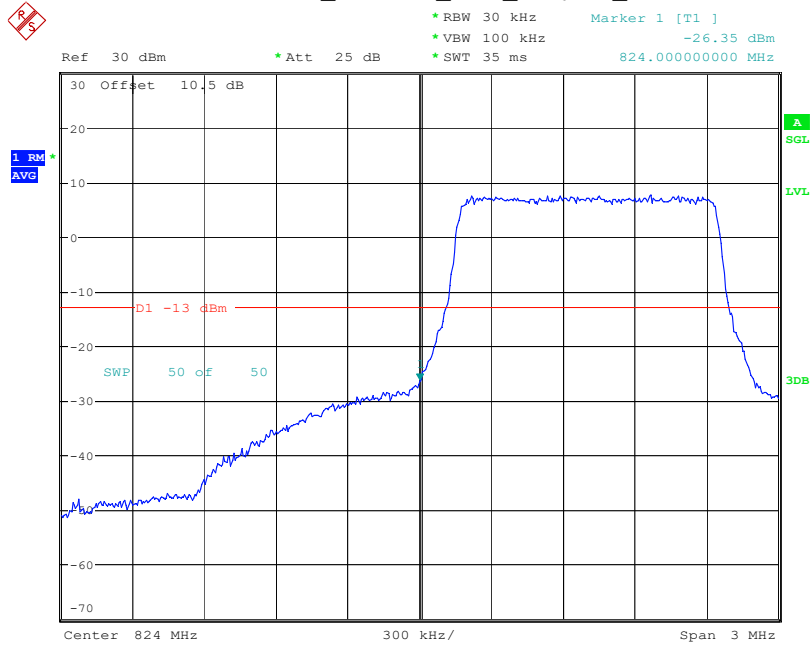
Band 26_1.4 MHz_Low_QPSK_RB6#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 25.JUL.2024 21:11:37

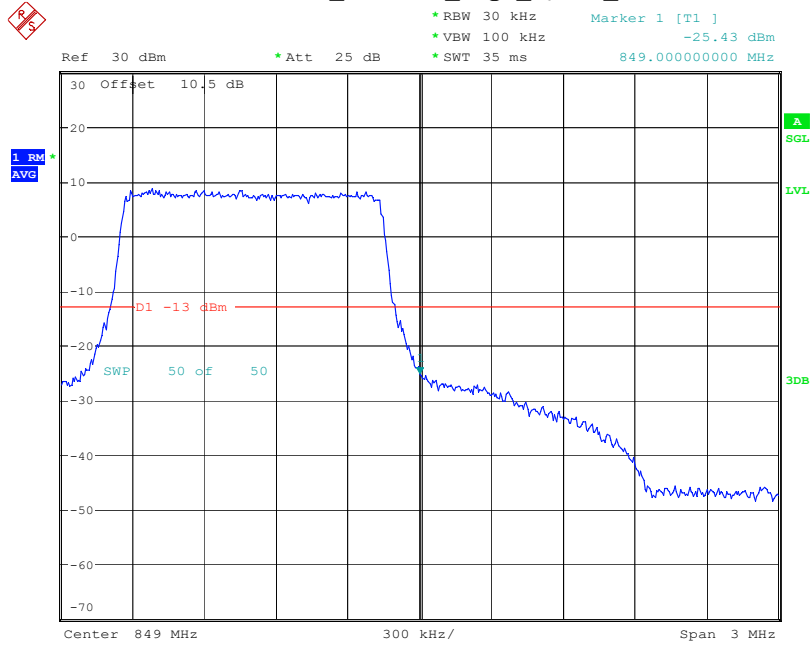
Band 26_1.4 MHz_Low_16QAM_RB6#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

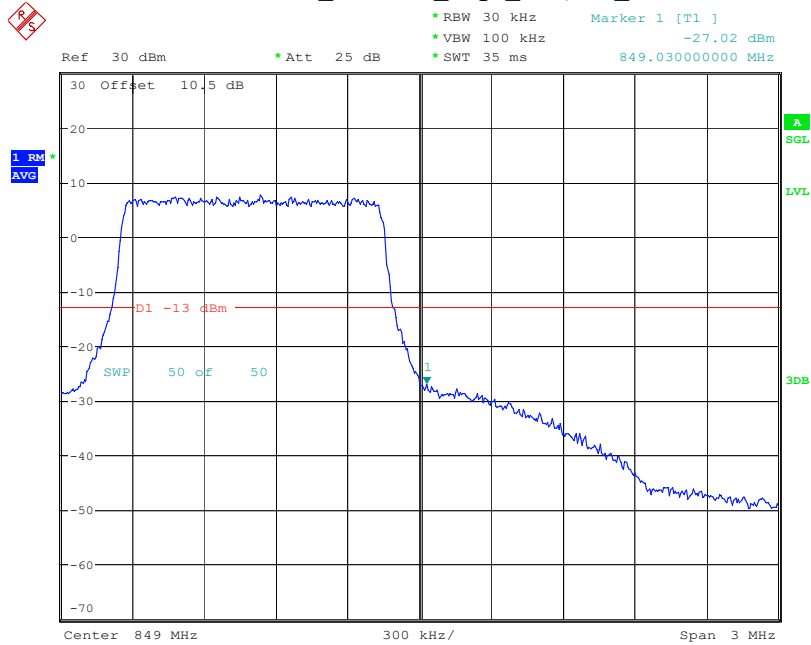
Date: 25.JUL.2024 21:11:42

Band 26_1.4 MHz_High_QPSK_RB6#0



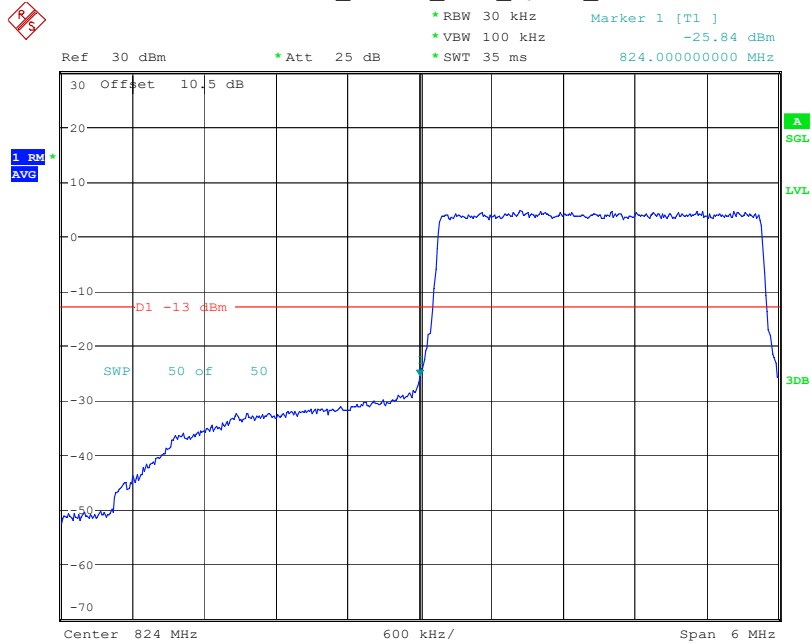
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:11:49

Band 26_1.4 MHz_High_16QAM_RB6#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:11:55

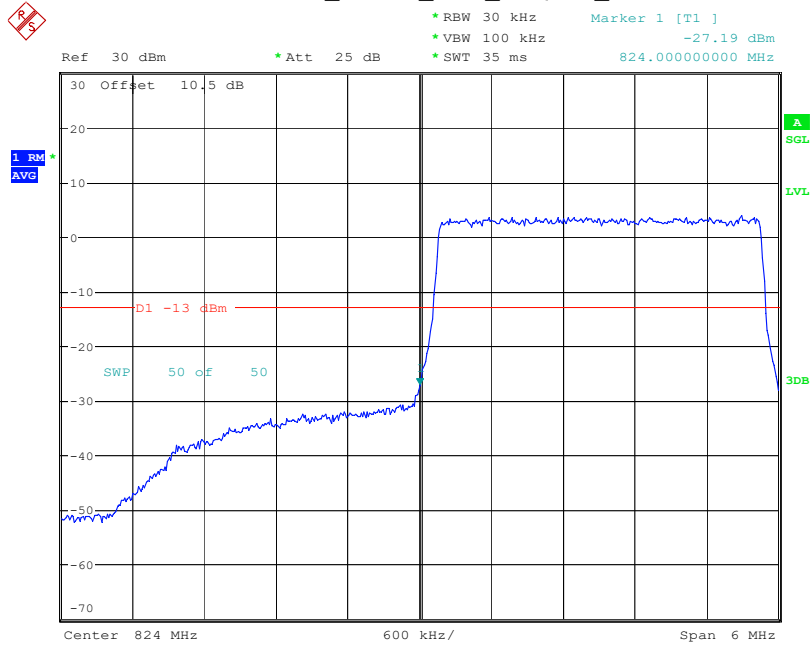
Band 26_3 MHz_Low_QPSK_RB15#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

Date: 25.JUL.2024 21:12:36

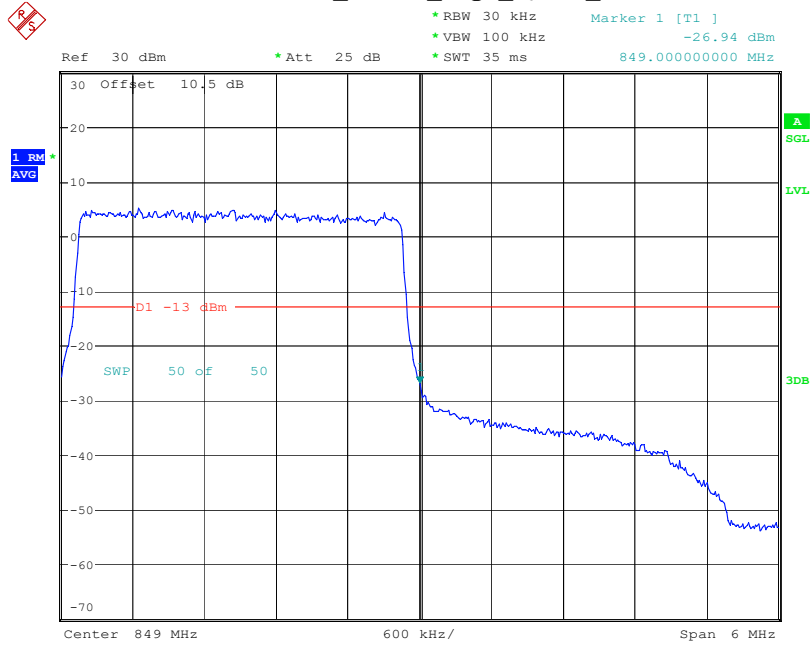
Band 26_3 MHz_Low_16QAM_RB15#0



ProjectNo.:2401S24086-RF Tester:Allen Bai

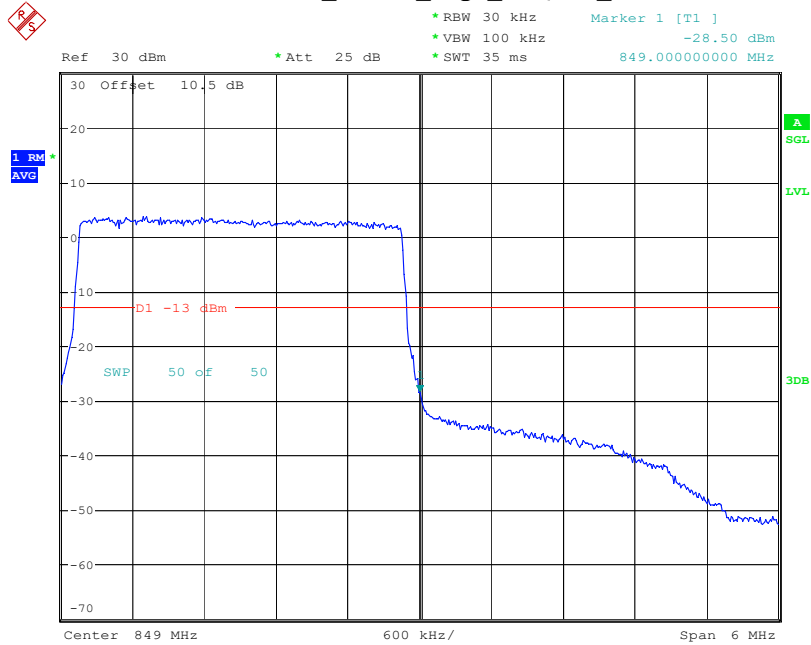
Date: 25.JUL.2024 21:12:43

Band 26_3 MHz_High_QPSK_RB15#0



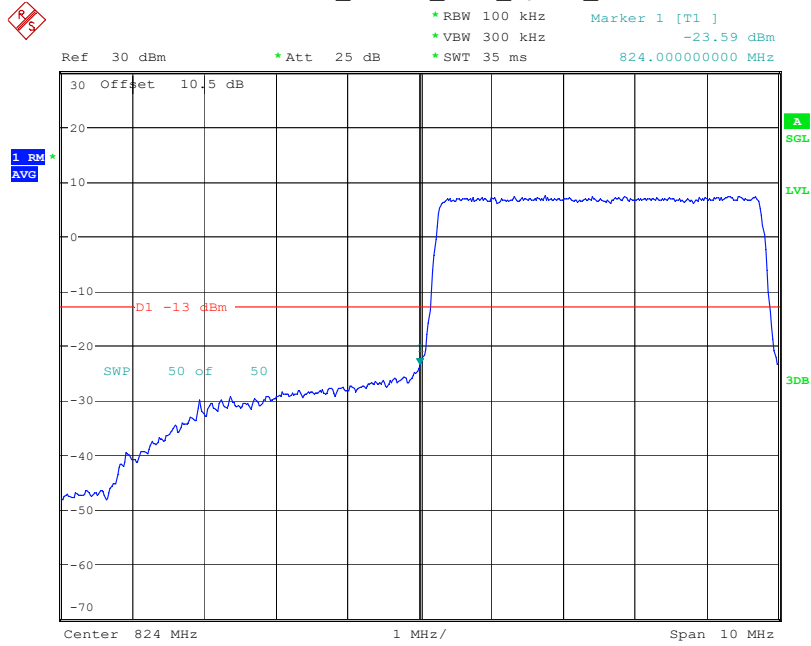
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Date: 25.JUL.2024 21:12:50

Band 26_3 MHz_High_16QAM_RB15#0



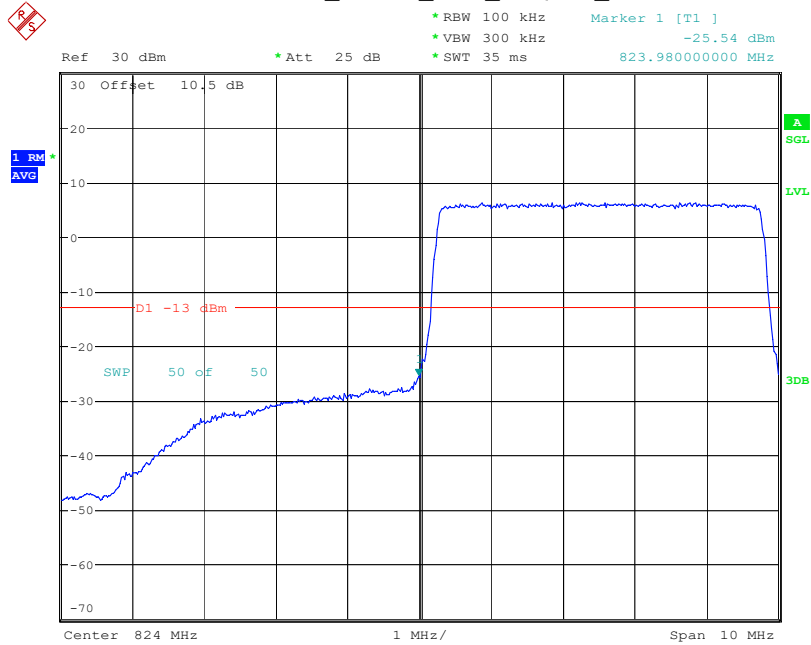
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:12:56

Band 26_5 MHz_Low_QPSK_RB25#0

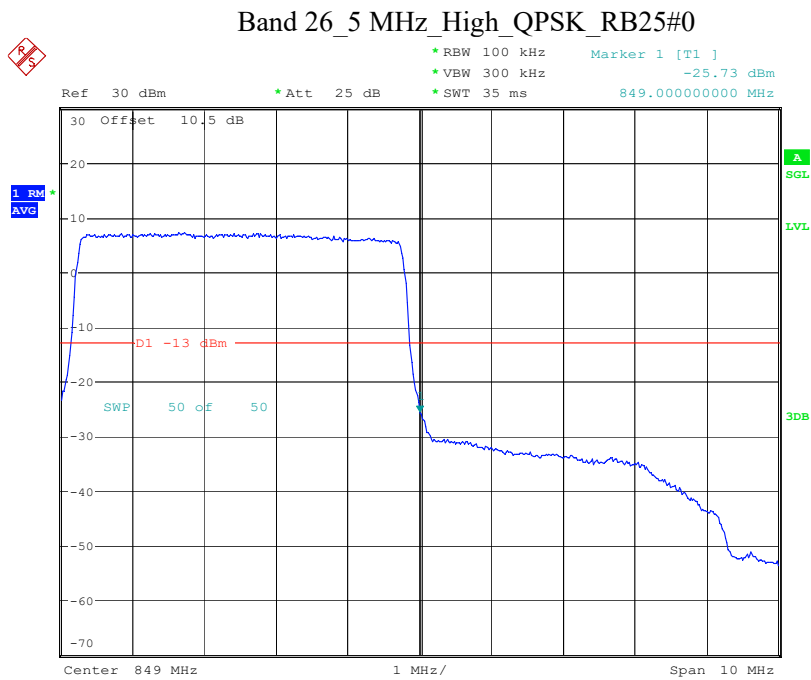


ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:13:37

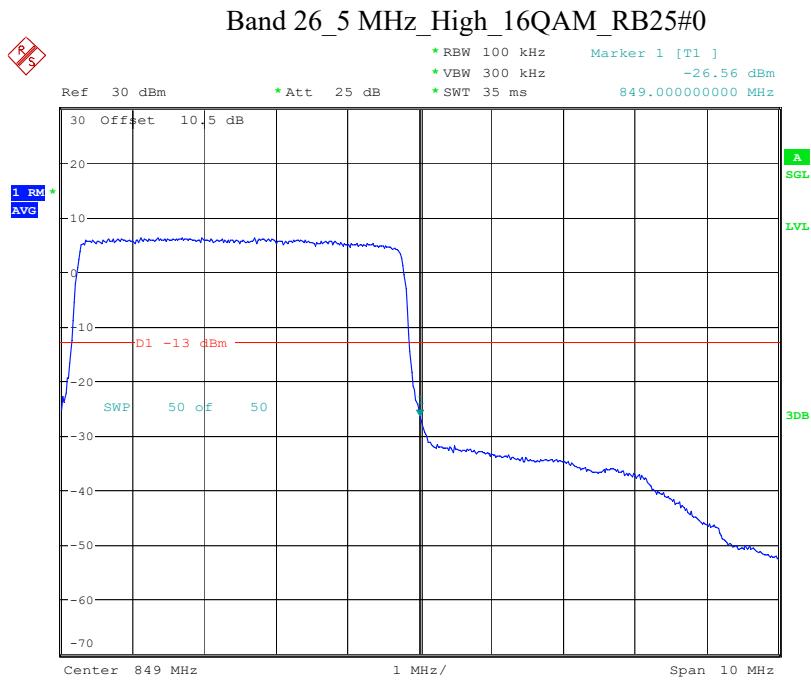
Band 26_5 MHz_Low_16QAM_RB25#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:13:43

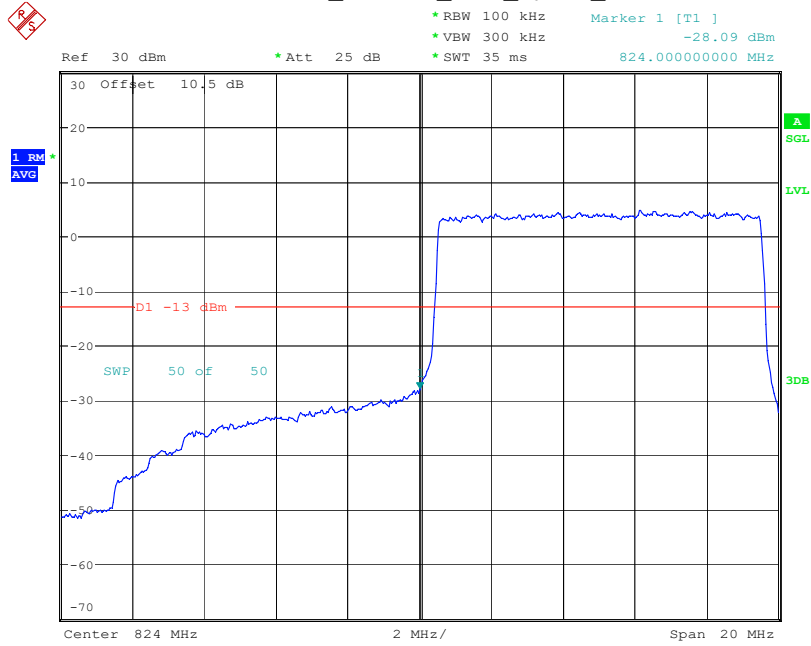


ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:13:51



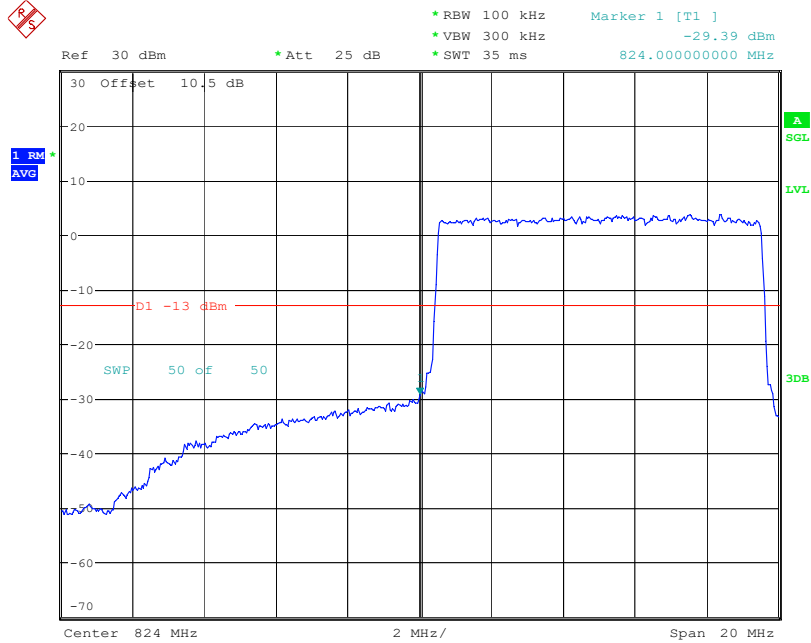
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Date: 25.JUL.2024 21:13:57

Band 26_10 MHz_Low_QPSK_RB50#0



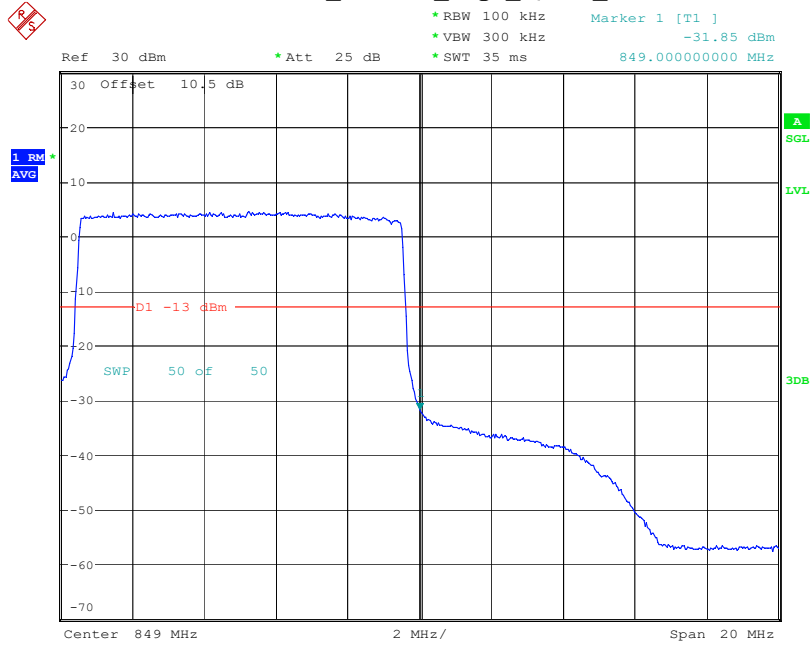
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:15:04

Band 26_10 MHz_Low_16QAM_RB50#0



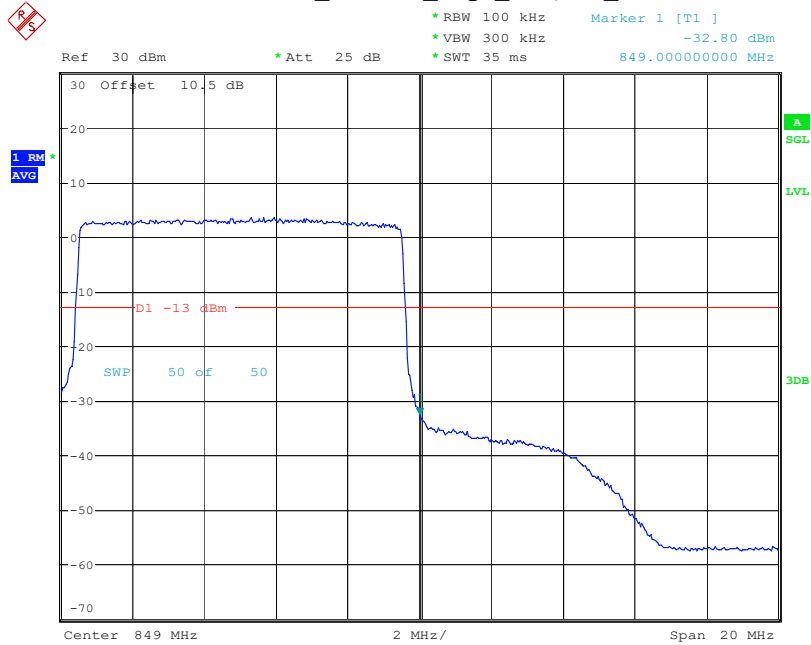
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:15:11

Band 26_10 MHz_High_QPSK_RB50#0



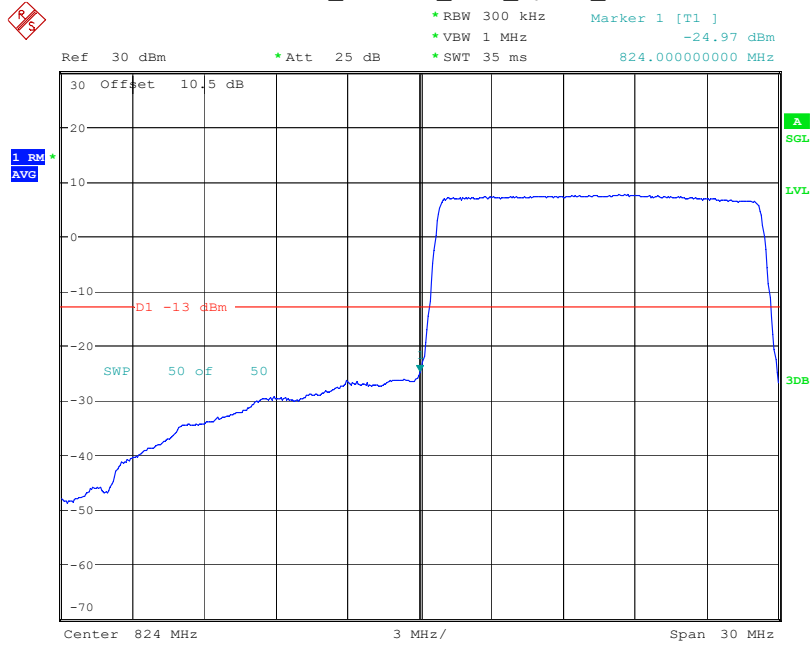
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Date: 25.JUL.2024 21:15:19

Band 26_10 MHz_High_16QAM_RB50#0



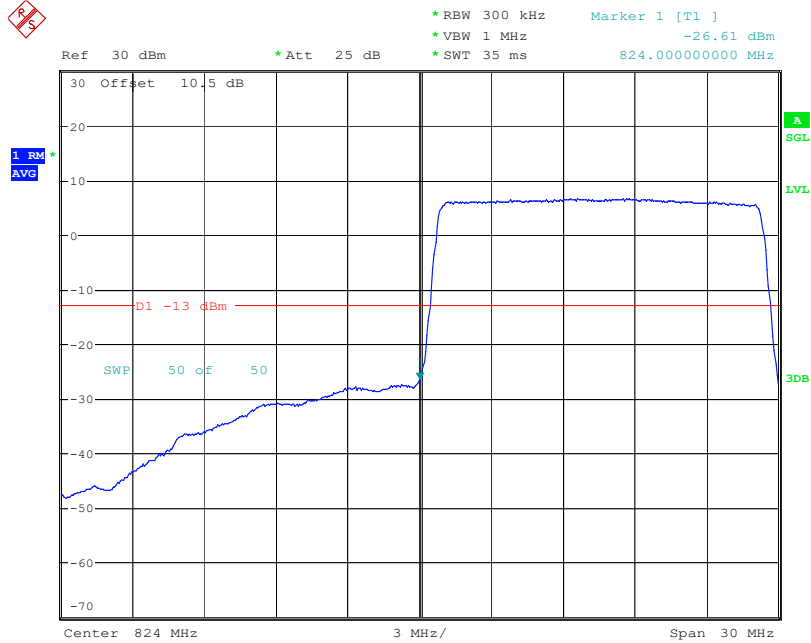
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:15:27

Band 26_15 MHz_Low_QPSK_RB75#0



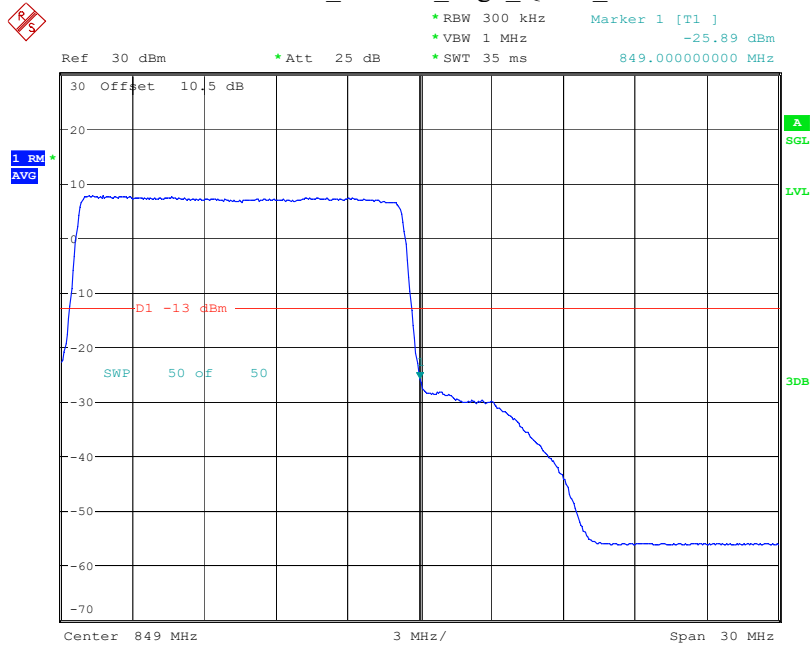
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Date: 25.JUL.2024 21:16:25

Band 26_15 MHz_Low_16QAM_RB75#0



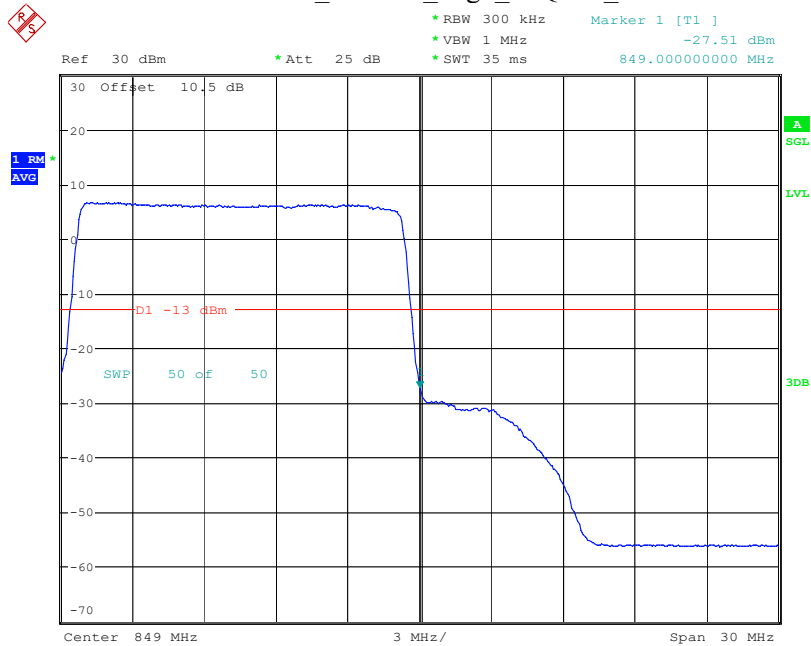
ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:16:31

Band 26_15 MHz_High_QPSK_RB75#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:16:37

Band 26_15 MHz_High_16QAM_RB75#0



ProjectNo.:2401S24086-RF Tester:Allen Bai
Date: 25.JUL.2024 21:16:43

The test plots of other LTE bands please refer to the Appendix.

FCC § 2.1055; § 22.355; § 24.235; §27.54; §90.213- FREQUENCY STABILITY

Applicable Standard

FCC § 2.1055, §22.355, §24.235&§27.54&§90.213.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile > 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235&§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

According to §90.213, unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table:

TABLE 1 TO §90.213(a)—MINIMUM FREQUENCY STABILITY

[Parts per million (ppm)]

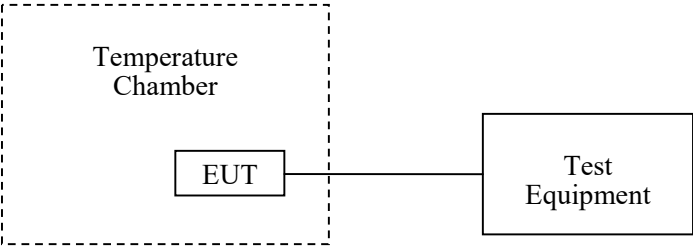
Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	1 2 3 100	100	200
25-50	20	20	50
72-76	5		50
150-174	5 11 5	6 5	4 6 50
216-220	1.0		1.0
220-222 ¹²	0.1	1.5	1.5
421-512	7 11 14 2.5	8 5	8 5
806-809	14 1.0	1.5	1.5
809-824	14 1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	14 0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928 ¹³	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	1.5
1427-1435	9 300	300	300
Above 2450 ¹⁰			

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external AC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The AC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data

Environmental Conditions

Temperature:	25.5~27.5 °C
Relative Humidity:	48~55 %
ATM Pressure:	101.0 kPa

The testing was performed by Allen Bai from 2024-07-16 to 2024-07-28.

EUT operation mode: Transmitting

Test Result: Compliant

Please refer to the following tables.

LTE**Band 26 (Part 90s)**

Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	5.44	0.007	2.5
	-20	3.8	3.28	0.004	2.5
	-10	3.8	2.14	0.003	2.5
	0	3.8	5.11	0.006	2.5
	10	3.8	6.14	0.007	2.5
	20	3.8	5.47	0.007	2.5
	30	3.8	7.81	0.009	2.5
	40	3.8	4.87	0.006	2.5
	50	3.8	6.74	0.008	2.5
Frequency Stability vs. Voltage	20	3.42	7.58	0.009	2.5
	20	4.4	8.44	0.010	2.5

Test Modulation:	15 MHz 16QAM		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	6.68	0.008	2.5
	-20	3.8	5.55	0.007	2.5
	-10	3.8	7.28	0.009	2.5
	0	3.8	8.22	0.010	2.5
	10	3.8	6.37	0.008	2.5
	20	3.8	8.14	0.010	2.5
	30	3.8	9.42	0.011	2.5
	40	3.8	8.14	0.010	2.5
	50	3.8	6.43	0.008	2.5
Frequency Stability vs. Voltage	20	3.42	3.15	0.004	2.5
	20	4.4	8.11	0.010	2.5

Band 26(Part 22H)

Test Modulation:	15 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	6.25	0.007	2.5
	-20	3.8	4.37	0.005	2.5
	-10	3.8	4.58	0.005	2.5
	0	3.8	7.28	0.009	2.5
	10	3.8	2.64	0.003	2.5
	20	3.8	4.58	0.005	2.5
	30	3.8	4.57	0.005	2.5
	40	3.8	7.34	0.009	2.5
	50	3.8	6.85	0.008	2.5
Frequency Stability vs. Voltage	20	3.42	3.66	0.004	2.5
	20	4.4	3.08	0.004	2.5

Test Modulation:	15 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	5.25	0.006	2.5
	-20	3.8	4.36	0.005	2.5
	-10	3.8	2.02	0.002	2.5
	0	3.8	7.58	0.009	2.5
	10	3.8	9.86	0.012	2.5
	20	3.8	7.05	0.008	2.5
	30	3.8	5.88	0.007	2.5
	40	3.8	7.58	0.009	2.5
	50	3.8	6.85	0.008	2.5
Frequency Stability vs. Voltage	20	3.42	5.85	0.007	2.5
	20	4.4	6.85	0.008	2.5

The test data of other LTE bands please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment 2401S24086-RF External photo and 2401S24086-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401S24086-RFC Test Setup photo.

******* END OF REPORT *******