

# Chongqing Academy of Information and Communications Technology

Report No.:B18W50279\_Rev4

## Test Data (QPSK Mode channel 19200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3819.45	-54.81	7.4	12.6	-49.61	V
5727.14	-50.11	1.8	13.1	-38.81	V
7636.54	-53.14	0.9	11.7	-42.34	H
9547.67	-52.47	0.8	11.9	-41.37	V
11456.11	-53.08	0.3	11.5	-41.88	H
13362.56	-53.25	0.4	13.6	-40.05	V

## Test Data (BPSK Mode channel 18600)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3769.46	-54.14	7.2	12.6	-48.74	V
5550.12	-52.09	2.0	13.1	-40.99	V
7400.48	-53.29	0.9	11.7	-42.49	H
9251.07	-53.99	1.0	11.9	-43.09	V
11100.35	-51.45	0.4	11.5	-40.35	V
12950.39	-51.80	0.4	13.6	-38.60	V

## Test Data (BPSK K Mode channel 18900)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3760.00	-53.14	7.4	12.6	-47.94	H
5641.18	-53.11	1.8	13.1	-41.81	V
7520.76	-51.56	0.9	11.7	-40.76	V
9400.63	-53.57	0.8	11.9	-42.47	H
11280.69	-50.41	0.3	11.5	-39.21	V
13160.74	-52.86	0.4	13.6	-39.66	V

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336  
Tel: 0086-23-88069965 FAX: 0086-23-88608777

### Test Data (BPSK Mode channel 19200)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3818.16	-50.61	7.4	12.6	-45.41	H
5727.76	-53.64	1.8	13.1	-42.34	V
7636.59	-50.63	0.9	11.7	-39.83	H
9547.26	-52.91	0.8	11.9	-41.81	H
11455.75	-50.94	0.3	11.5	-39.74	V
13362.81	-54.67	0.4	13.6	-41.47	V

### 5.4.4 NB-IoT Band 12 Radiated Spurious Emission Results

#### Test Data (QPSK Mode channel 23010)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1298.32	-28.99	4.2	7.5	-25.69	V
2097.11	-33.28	5.4	10.4	-28.28	H
2796.38	-37.23	6.2	10.6	-32.83	V
3495.72	-53.90	7.0	12.6	-48.30	V
4194.78	-50.99	7.8	12.6	-46.19	V
4893.23	-54.28	7.8	12.7	-49.38	V

#### Test Data (QPSK Mode channel 23095)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1415.39	-28.77	4.4	8.0	-25.17	V
2122.58	-33.18	5.4	10.4	-28.18	V
2830.34	-38.58	6.3	11.5	-33.38	V
3537.71	-50.74	7.0	12.6	-45.14	H
4245.24	-50.51	7.8	12.6	-45.71	H

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4952.31	-51.64	7.9	13.1	-46.44	V
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## Test Data (QPSK Mode channel 23173)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.56	-30.45	4.4	8.0	-26.85	V
2148.62	-32.62	5.4	10.4	-27.62	V
2865.25	-39.98	6.4	11.5	-34.88	H
3581.13	-50.55	7.2	12.6	-45.15	V
4296.21	-51.46	7.8	12.6	-46.66	H
5012.44	-52.12	7.5	13.1	-46.52	V

## Test Data (BPSK Mode channel 23010)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1298.19	-27.65	4.2	7.5	-24.35	H
2097.85	-32.76	5.4	10.4	-27.76	H
2795.99	-38.67	6.2	10.6	-34.27	V
3495.28	-53.99	7.0	12.6	-48.39	V
4194.39	-51.69	7.8	12.6	-46.89	V
4893.02	-27.65	4.2	7.5	-24.35	V

## Test Data (BPSK K Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.21	-29.01	4.4	8.0	-25.41	V
2122.08	-32.78	5.4	10.4	-27.78	V
2831.42	-37.77	6.3	11.5	-32.57	V
3537.90	-53.41	7.0	12.6	-47.81	V

4246.02	-53.93	7.8	12.6	-49.13	H
4951.67	-54.49	7.9	13.1	-49.29	V

**Test Data (BPSK Mode channel 23173)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.45	-50.61	4.4	8.0	-45.41	H
2149.26	-53.64	5.4	10.4	-42.34	V
2865.33	-50.63	6.4	11.5	-39.83	H
3581.01	-52.91	7.2	12.6	-41.81	H
4296.89	-50.94	7.8	12.6	-39.74	V
5013.45	-54.67	7.5	13.1	-41.47	V

**5.4.5 NB-IoT Band 13 Radiated Spurious Emission Results**

**Test Data (QPSK Mode channel 23180)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1554.37	-33.87	4.6	8.0	-30.47	V
2331.92	-34.76	5.6	10.6	-29.76	V
3108.44	-52.17	6.5	11.5	-47.17	V
3884.85	-50.01	7.4	12.6	-44.81	V
4662.64	-52.12	8.1	12.7	-47.52	V
5440.57	-51.42	2.9	13.1	-41.22	V

**Test Data (QPSK Mode channel 23230)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1565.25	-35.18	4.6	8.0	-31.78	V
2346.82	-39.63	5.6	10.4	-34.83	V
3128.53	-51.34	6.6	11.5	-46.44	V

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3911.83	-50.65	7.4	12.6	-45.45	V
4692.18	-50.82	8.1	12.6	-46.32	H
5475.37	-50.32	2.9	13.1	-40.12	H

## Test Data (QPSK Mode channel 23280)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1574.39	-34.28	4.6	8.0	-30.88	V
2360.43	-37.62	5.7	10.4	-32.92	V
3148.59	-51.46	6.5	11.5	-46.46	V
3935.20	-53.88	7.5	12.6	-48.78	V
4722.14	-50.37	8.1	12.6	-45.87	V
5510.36	-50.29	2.5	13.1	-39.69	H

## Test Data (BPSK Mode channel 23180)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1554.37	-32.88	4.6	8.0	-29.48	V
2331.92	-35.49	5.6	10.6	-30.49	H
3108.44	-52.93	6.5	11.5	-47.93	V
3884.85	-53.88	7.4	12.6	-48.68	V
4662.64	-51.81	8.1	12.7	-47.21	V
5440.57	-51.74	2.9	13.1	-41.54	V

## Test Data (BPSK K Mode channel 23230)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1564.99	-34.62	4.6	8.0	-31.22	V
2346.51	-38.10	5.6	10.4	-33.30	V

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3128.48	-54.31	6.6	11.5	-49.41	V
3910.38	-54.61	7.4	12.6	-49.41	V
4690.23	-50.56	8.1	12.6	-46.06	H
5475.10	-54.22	2.9	13.1	-44.02	V

## Test Data (BPSK Mode channel 23280)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1574.19	-34.62	4.6	8.0	-31.22	V
2361.63	-38.82	5.7	10.4	-34.12	V
3149.42	-50.68	6.5	11.5	-45.68	H
3935.53	-51.89	7.5	12.6	-46.79	V
4720.27	-50.76	8.1	12.6	-46.26	V
5509.62	-53.63	2.5	13.1	-43.03	V

## 5.4.6 NB-IoT Band 17 Radiated Spurious Emission Results

### Test Data (QPSK Mode channel 23730)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1408.58	-33.78	4.4	8.0	-30.18	V
2112.35	-36.81	5.4	10.4	-31.81	V
2815.72	-40.50	6.3	11.5	-35.30	H
3520.37	-53.05	7.0	12.6	-47.45	V
4225.06	-54.14	7.8	12.6	-49.34	V
4928.34	-52.78	7.7	12.7	-47.78	V

### Test Data (QPSK Mode channel 23790)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1420.46	-34.58	4.4	8.0	-30.98	V

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2130.55	-38.18	5.4	10.4	-33.18	V
2840.73	-40.93	6.4	11.5	-35.83	H
3550.26	-50.36	7.0	12.6	-44.76	V
4260.45	-50.57	7.8	12.7	-45.67	V
4970.37	-53.96	7.5	12.7	-48.76	V

## Test Data (QPSK Mode channel 23850)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1432.59	-34.11	4.4	8.0	-30.51	V
2148.75	-38.49	5.4	10.4	-33.49	V
2864.51	-41.62	6.4	11.5	-36.52	V
3580.63	-53.53	7.2	12.6	-48.13	V
4295.75	-52.27	7.8	12.7	-47.37	V
5012.63	-50.75	7.5	12.7	-45.55	V

## Test Data (BPSK Mode channel 23730)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1408.29	-34.02	4.4	8.0	-30.42	V
2112.84	-37.66	5.4	10.4	-32.66	V
2814.29	-41.39	6.3	11.5	-36.19	V
3519.78	-53.67	7.0	12.6	-48.07	H
4225.47	-51.82	7.8	12.6	-47.02	V
4928.83	-51.78	7.7	12.7	-46.78	H

## Test Data (BPSK K Mode channel 23790)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1420.57	-33.95	4.4	8.0	-30.35	V

2130.13	-37.37	5.4	10.4	-32.37	H
2840.63	-40.88	6.4	11.5	-35.78	H
3551.02	-50.31	7.0	12.6	-44.71	V
4260.28	-52.62	7.8	12.7	-47.72	V
4969.15	-53.69	7.5	12.7	-48.49	V

**Test Data (BPSK Mode channel 23850)**

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1432.42	-33.54	4.4	8.0	-29.94	V
2149.45	-37.56	5.4	10.4	-32.56	V
2865.23	-41.89	6.4	11.5	-36.79	V
3580.47	-50.98	7.2	12.6	-45.58	V
4295.45	-52.02	7.8	12.7	-47.12	H
5012.66	-52.08	7.5	12.7	-46.88	V

**5.4.7 NB-IoT Band 26 Radiated Spurious Emission Results**

**Test Data (QPSK Mode channel 26690)**

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1628.46	-34.44	4.7	9.4	-29.74	V
2442.28	-38.03	5.9	10.6	-33.33	V
3256.83	-51.78	6.7	12.6	-45.88	V
4070.17	-50.31	7.6	12.6	-45.31	V
4884.56	-54.42	7.9	12.7	-49.62	H
5698.29	-51.53	1.7	13.1	-40.13	H



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## Test Data (QPSK Mode channel 26856)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.71	-34.71	4.7	9.4	-30.01	V
2494.74	-40.89	5.9	10.6	-36.19	V
3326.58	-53.21	6.8	12.6	-47.41	V
4157.99	-54.33	7.6	12.6	-49.33	H
4989.26	-53.07	7.5	12.7	-47.87	V
5820.41	-54.11	1.4	13.1	-42.41	V

## Test Data (QPSK Mode channel 27040)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1698.48	-34.18	4.8	9.4	-29.58	V
2547.73	-38.01	5.9	10.6	-33.31	V
3396.23	-53.63	6.9	12.6	-47.93	V
4245.70	-50.27	7.8	12.6	-45.47	V
5094.78	-53.55	6.8	12.7	-47.65	H
5943.45	-53.28	1.4	13.1	-41.58	H

## Test Data (BPSK Mode channel 26690)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1628.76	-33.78	4.7	9.4	-29.08	V
2442.19	-39.08	5.9	10.6	-34.38	V
3256.74	-52.17	6.7	12.6	-46.27	V
4071.35	-52.83	7.6	12.6	-47.83	V
4885.72	-54.86	7.9	12.7	-50.06	H
5698.83	-54.34	1.7	13.1	-42.94	H

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**Test Data (BPSK K Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.43	-32.45	4.7	9.4	-27.75	V
2495.22	-37.92	5.9	10.6	-33.22	V
3325.17	-53.35	6.8	12.6	-47.55	H
4157.36	-52.02	7.6	12.6	-47.02	V
4990.44	-50.84	7.5	12.7	-45.64	V
5820.87	-50.66	1.4	13.1	-38.96	V

**Test Data (BPSK Mode channel 27040)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1698.67	-33.52	4.8	9.4	-28.92	V
2547.25	-40.78	5.9	10.6	-36.08	V
3396.78	-53.07	6.9	12.6	-47.37	V
4245.62	-50.10	7.8	12.6	-45.30	V
5095.81	-54.66	6.8	12.7	-48.76	H
5943.63	-54.52	1.4	13.1	-42.82	V

**5.4.8 Cat-M Band 2 Radiated Spurious Emission Results**

**Test Data (1.4MHz Bandwidth QPSK Mode channel 18600)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3702.34	-50.35	7.2	12.6	-44.95	V
5550.54	-51.50	2.0	13.1	-40.40	V
7401.28	-52.31	0.9	11.7	-41.51	V
9250.26	-51.72	1.0	11.9	-40.82	V
11100.22	-54.10	0.4	11.5	-43.00	V

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12950.81	-50.62	0.4	13.6	-37.42	V
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## Test Data (1.4MHz Bandwidth QPSK Mode channel 18900)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3760.43	-52.72	7.4	12.6	-47.52	V
5640.72	-54.04	1.8	13.1	-42.74	V
7520.12	-52.29	0.9	11.7	-41.49	V
9400.72	-51.56	0.8	11.9	-40.46	V
11280.59	-50.99	0.3	11.5	-39.79	V
13160.24	-53.14	0.4	13.6	-39.94	H

## Test Data (1.4MHz Bandwidth QPSK Mode channel 19200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3820.27	-50.14	7.4	12.6	-44.94	V
5727.36	-52.86	1.8	13.1	-41.56	V
7636.73	-54.27	0.9	11.7	-43.47	H
9547.16	-54.79	0.8	11.9	-43.69	V
11456.73	-53.19	0.3	11.5	-41.99	V
13361.63	-50.28	0.4	13.6	-37.08	V

## Test Data (1.4MHz Bandwidth 16QAM Mode channel 18600)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3770.29	-50.52	7.2	12.6	-45.12	V
5550.57	-53.02	2.0	13.1	-41.92	V
7400.29	-53.82	0.9	11.7	-43.02	V
9250.22	-53.41	1.0	11.9	-42.51	H
11100.85	-51.33	0.4	11.5	-40.23	V

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12950.17	-51.87	0.4	13.6	-38.67	V
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**Test Data (1.4MHz Bandwidth 16QAM Mode channel 18900)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3760.15	-54.73	7.4	12.6	-49.53	V
5642.63	-53.56	1.8	13.1	-42.26	V
7520.82	-50.70	0.9	11.7	-39.90	V
9400.45	-52.30	0.8	11.9	-41.20	V
11280.27	-54.36	0.3	11.5	-43.16	H
13160.29	-51.64	0.4	13.6	-38.44	V

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 19200)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3818.23	-52.62	7.4	12.6	-47.42	H
5727.62	-53.12	1.8	13.1	-41.82	V
7636.24	-53.20	0.9	11.7	-42.40	V
9548.85	-51.60	0.8	11.9	-40.50	V
11455.12	-51.56	0.3	11.5	-40.36	V
13362.74	-54.73	0.4	13.6	-41.53	V

**Test Data (3MHz Bandwidth QPSK Mode channel 18600)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3702.74	-50.88	7.2	12.6	-45.48	V
5550.13	-50.03	2.0	13.1	-38.93	H
7401.85	-51.64	0.9	11.7	-40.84	V
9250.25	-54.81	1.0	11.9	-43.91	V

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11101.84	-51.07	0.4	11.5	-39.97	V
12951.73	-53.24	0.4	13.6	-40.04	V

**Test Data (3MHz Bandwidth QPSK Mode channel 18900)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3761.72	-53.67	7.4	12.6	-48.47	V
5640.24	-52.93	1.8	13.1	-41.63	V
7520.68	-51.96	0.9	11.7	-41.16	H
9400.32	-50.63	0.8	11.9	-39.53	V
11280.63	-54.24	0.3	11.5	-43.04	V
13160.20	-52.95	0.4	13.6	-39.75	V

**Test Data (3MHz Bandwidth QPSK Mode channel 19200)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3821.34	-54.64	7.4	12.6	-49.44	V
5726.56	-51.46	1.8	13.1	-40.16	V
7636.39	-54.00	0.9	11.7	-43.20	H
9547.17	-52.88	0.8	11.9	-41.78	V
11456.24	-51.33	0.3	11.5	-40.13	V
13360.34	-52.48	0.4	13.6	-39.28	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 18600)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3770.52	-51.33	7.2	12.6	-45.93	V
5551.32	-53.53	2.0	13.1	-42.43	V
7401.53	-50.46	0.9	11.7	-39.66	V
9251.56	-52.74	1.0	11.9	-41.84	H

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11101.63	-53.01	0.4	11.5	-41.91	V
12951.63	-51.93	0.4	13.6	-38.73	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 18900)**

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3760.15	-54.73	7.4	12.6	-49.53	V
5642.63	-53.56	1.8	13.1	-42.26	V
7520.82	-50.70	0.9	11.7	-39.90	V
9400.45	-52.30	0.8	11.9	-41.20	V
11280.27	-54.36	0.3	11.5	-43.16	H
13160.29	-51.64	0.4	13.6	-38.44	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 19200)**

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3818.35	-54.20	7.4	12.6	-49.00	V
5727.45	-53.94	1.8	13.1	-42.64	V
7636.72	-52.77	0.9	11.7	-41.97	V
9548.42	-50.12	0.8	11.9	-39.02	V
11455.17	-52.31	0.3	11.5	-41.11	V
13362.93	-53.06	0.4	13.6	-39.86	V

**Test Data (5MHz Bandwidth QPSK Mode channel 18625)**

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3706.23	-51.52	7.2	12.6	-46.12	V
5554.34	-51.70	2.0	13.1	-40.60	V
7403.62	-53.57	0.9	11.7	-42.77	V

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9253.78	-52.95	1.0	11.9	-42.05	H
11103.62	-50.59	0.4	11.5	-39.49	V
12954.48	-54.83	0.4	13.6	-41.63	V

**Test Data (5MHz Bandwidth QPSK Mode channel 18900)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3761.43	-52.90	7.4	12.6	-47.70	V
5640.72	-50.86	1.8	13.1	-39.56	V
7520.33	-53.25	0.9	11.7	-42.45	H
9400.85	-50.68	0.8	11.9	-39.58	V
11280.14	-52.19	0.3	11.5	-40.99	V
13160.52	-53.57	0.4	13.6	-40.37	V

**Test Data (5MHz Bandwidth QPSK Mode channel 19175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3818.45	-54.43	7.4	12.6	-49.23	V
5723.71	-53.47	1.8	13.1	-42.17	V
7633.29	-53.10	0.9	11.7	-42.30	H
9544.86	-51.76	0.8	11.9	-40.66	V
11453.47	-51.02	0.3	11.5	-39.82	V
13357.62	-51.30	0.4	13.6	-38.10	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 18625)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3705.15	-52.35	7.2	12.6	-46.95	V
5555.24	-50.05	2.0	13.1	-38.95	H
7405.72	-52.58	0.9	11.7	-41.78	H

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9255.23	-53.05	1.0	11.9	-42.15	V
11105.28	-53.24	0.4	11.5	-42.14	V
12953.63	-54.89	0.4	13.6	-41.69	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 18900)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3760.43	-51.05	7.4	12.6	-45.85	V
5642.72	-53.87	1.8	13.1	-42.57	V
7521.47	-52.62	0.9	11.7	-41.82	V
9400.37	-50.19	0.8	11.9	-39.09	H
11280.83	-53.34	0.3	11.5	-42.14	V
13160.45	-52.14	0.4	13.6	-38.94	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 19175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3817.35	-52.32	7.4	12.6	-47.12	V
5723.62	-52.09	1.8	13.1	-40.79	V
7633.74	-51.66	0.9	11.7	-40.86	V
9544.62	-53.86	0.8	11.9	-42.76	V
11453.84	-52.03	0.3	11.5	-40.83	V
13357.35	-51.26	0.4	13.6	-38.06	H

**Test Data (10MHz Bandwidth QPSK Mode channel 18650)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3708.34	-50.71	7.2	12.6	-45.31	V
5557.52	-52.03	2.0	13.1	-40.93	H



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7405.94	-50.36	0.9	11.7	-39.56	V
9255.27	-52.09	1.0	11.9	-41.19	V
11105.27	-54.68	0.4	11.5	-43.58	V
12956.72	-50.34	0.4	13.6	-37.14	H

## Test Data (10MHz Bandwidth QPSK Mode channel 18900)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3761.63	-51.40	7.4	12.6	-46.20	V
5641.93	-50.41	1.8	13.1	-39.11	V
7520.71	-53.87	0.9	11.7	-43.07	V
9401.46	-53.89	0.8	11.9	-42.79	H
11280.73	-53.29	0.3	11.5	-42.09	V
13160.55	-53.12	0.4	13.6	-39.92	V

## Test Data (10MHz Bandwidth QPSK Mode channel 19150)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3816.56	-50.78	7.4	12.6	-45.58	V
5721.35	-52.02	1.8	13.1	-40.72	H
7631.05	-51.23	0.9	11.7	-40.43	V
9542.53	-54.03	0.8	11.9	-42.93	H
11451.68	-52.94	0.3	11.5	-41.74	V
13355.71	-53.13	0.4	13.6	-39.93	V

## Test Data (10MHz Bandwidth 16QAM Mode channel 18650)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3708.57	-50.47	7.2	12.6	-45.07	V
5557.26	-52.92	2.0	13.1	-41.82	H

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7405.62	-52.67	0.9	11.7	-41.87	H
9255.59	-50.48	1.0	11.9	-39.58	V
11105.48	-51.01	0.4	11.5	-39.91	V
12956.59	-50.67	0.4	13.6	-37.47	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 18900)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3760.62	-52.46	7.4	12.6	-47.26	V
5642.33	-54.76	1.8	13.1	-43.46	V
7520.62	-51.19	0.9	11.7	-40.39	V
9400.72	-53.55	0.8	11.9	-42.45	V
11280.43	-50.53	0.3	11.5	-39.33	V
13160.84	-53.04	0.4	13.6	-39.84	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 19150)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3815.73	-53.56	7.4	12.6	-48.36	V
5721.63	-54.66	1.8	13.1	-43.36	V
7631.77	-50.48	0.9	11.7	-39.68	V
9542.58	-52.07	0.8	11.9	-40.97	V
11451.34	-51.54	0.3	11.5	-40.34	V
13355.84	-52.16	0.4	13.6	-38.96	H

**Test Data (15MHz Bandwidth QPSK Mode channel 18675)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3710.56	-52.30	7.2	12.6	-46.90	V

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5559.36	-50.51	2.0	13.1	-39.41	V
7407.45	-51.58	0.9	11.7	-40.78	V
9257.58	-51.88	1.0	11.9	-40.98	V
11107.52	-54.93	0.4	11.5	-43.83	H
12958.15	-54.52	0.4	13.6	-41.32	V

## Test Data (15MHz Bandwidth QPSK Mode channel 18900)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3760.37	-53.02	7.4	12.6	-47.82	V
5640.64	-52.87	1.8	13.1	-41.57	V
7520.83	-50.90	0.9	11.7	-40.10	V
9400.62	-53.57	0.8	11.9	-42.47	V
11280.60	-53.35	0.3	11.5	-42.15	V
13160.41	-52.60	0.4	13.6	-39.40	H

## Test Data (15MHz Bandwidth QPSK Mode channel 19125)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3814.73	-52.94	7.4	12.6	-47.74	V
5719.53	-52.97	1.8	13.1	-41.67	V
7629.02	-54.34	0.9	11.7	-43.54	H
9540.37	-52.08	0.8	11.9	-40.98	H
11449.23	-54.96	0.3	11.5	-43.76	V
13353.51	-50.12	0.4	13.6	-36.92	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 18675)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3710.25	-51.45	7.2	12.6	-46.05	V

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5559.84	-50.70	2.0	13.1	-39.60	V
7407.67	-51.96	0.9	11.7	-41.16	H
9257.82	-54.78	1.0	11.9	-43.88	V
11107.47	-51.39	0.4	11.5	-40.29	V
12958.07	-50.03	0.4	13.6	-36.83	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 18900)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3761.05	-51.12	7.4	12.6	-45.92	V
5641.22	-50.85	1.8	13.1	-39.55	V
7520.73	-53.69	0.9	11.7	-42.89	V
9401.27	-53.86	0.8	11.9	-42.76	V
11280.67	-51.27	0.3	11.5	-40.07	V
13160.27	-53.42	0.4	13.6	-40.22	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 19125)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3814.43	-52.48	7.4	12.6	-47.28	V
5719.72	-50.69	1.8	13.1	-39.39	V
7629.59	-50.14	0.9	11.7	-39.34	H
9540.15	-52.04	0.8	11.9	-40.94	V
11449.84	-52.67	0.3	11.5	-41.47	V
13353.46	-53.32	0.4	13.6	-40.12	V

## Test Data (20MHz Bandwidth QPSK Mode channel 18700)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
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3712.45	-52.18	7.2	12.6	-46.78	V
5563.83	-53.68	2.0	13.1	-42.58	V
7410.04	-53.52	0.9	11.7	-42.72	H
9259.24	-52.23	1.0	11.9	-41.33	V
11109.22	-50.95	0.4	11.5	-39.85	V
12960.83	-53.38	0.4	13.6	-40.18	V

## Test Data (20MHz Bandwidth QPSK Mode channel 18900)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3760.46	-50.19	7.4	12.6	-44.99	V
5641.33	-53.96	1.8	13.1	-42.66	H
7521.34	-52.76	0.9	11.7	-41.96	V
9400.72	-52.25	0.8	11.9	-41.15	V
11280.49	-54.07	0.3	11.5	-42.87	V
13161.36	-50.59	0.4	13.6	-37.39	V

## Test Data (20MHz Bandwidth QPSK Mode channel 19100)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3812.56	-51.17	7.4	12.6	-45.97	V
5718.63	-51.27	1.8	13.1	-39.97	V
7627.81	-53.00	0.9	11.7	-42.20	V
9538.52	-53.55	0.8	11.9	-42.45	H
11447.95	-53.42	0.3	11.5	-42.22	V
13351.53	-50.70	0.4	13.6	-37.50	V

## Test Data (20MHz Bandwidth 16QAM Mode channel 18700)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
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3712.62	-51.70	7.2	12.6	-46.30	V
5562.34	-51.02	2.0	13.1	-39.92	V
7410.74	-54.95	0.9	11.7	-44.15	V
9260.28	-51.58	1.0	11.9	-40.68	V
11110.47	-51.43	0.4	11.5	-40.33	V
12960.42	-50.10	0.4	13.6	-36.90	V

## Test Data (20MHz Bandwidth 16QAM Mode channel 18900)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3760.84	-54.45	7.4	12.6	-49.25	V
5641.52	-50.02	1.8	13.1	-38.72	V
7520.37	-52.50	0.9	11.7	-41.70	V
9400.52	-54.84	0.8	11.9	-43.74	V
11281.48	-52.29	0.3	11.5	-41.09	H
13161.48	-52.52	0.4	13.6	-39.32	H

## Test Data (20MHz Bandwidth 16QAM Mode channel 19100)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3812.32	-50.09	7.4	12.6	-44.89	V
5717.38	-52.50	1.8	13.1	-41.20	V
7627.47	-50.72	0.9	11.7	-39.92	V
9538.59	-50.02	0.8	11.9	-38.92	V
11446.24	-53.45	0.3	11.5	-42.25	H
13352.95	-50.95	0.4	13.6	-37.75	V

### 5.4.9 Cat-M Band4 Radiated Spurious Emission Results

#### Test Data (1.4MHz Bandwidth QPSK Mode channel 19950)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3420.36	-54.34	6.9	12.6	-48.64	V
5130.77	-53.66	6.3	12.7	-47.26	V
6840.83	-53.87	0.8	11.7	-42.97	H
8550.38	-53.58	0.9	11.9	-42.58	V
10260.53	-52.02	0.5	12.1	-40.42	V
11970.63	-54.77	0.4	13.2	-41.97	V

#### Test Data (1.4MHz Bandwidth QPSK Mode channel 20175)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.45	-52.45	6.9	12.6	-46.75	V
5197.13	-52.90	5.8	12.7	-46.00	V
6930.85	-54.90	0.9	11.7	-44.10	V
8662.34	-50.83	0.9	11.9	-39.83	V
10395.13	-53.09	0.7	12.1	-41.69	H
12127.84	-50.82	0.6	13.2	-38.22	V

#### Test Data (1.4MHz Bandwidth QPSK Mode channel 20400)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3510.26	-52.14	7.0	12.6	-46.54	V
5265.73	-50.80	5.0	12.7	-43.10	H
7020.83	-52.31	1.2	11.7	-41.81	V
8775.39	-51.58	1.1	11.9	-40.78	V
10530.85	-54.84	0.6	12.1	-43.34	V

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12285.83	-53.69	0.3	13.2	-40.79	V
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**Test Data (1.4MHz Bandwidth 16QAM Mode channel 19950)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3420.56	-50.84	6.9	12.6	-45.14	V
5130.35	-53.80	6.3	12.7	-47.40	V
6840.42	-51.24	0.8	11.7	-40.34	V
8550.49	-52.75	0.9	11.9	-41.75	V
10260.34	-54.02	0.5	12.1	-42.42	H
11970.94	-50.75	0.4	13.2	-37.95	H

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.13	-54.11	6.9	12.6	-48.41	V
5197.73	-51.97	5.8	12.7	-45.07	V
6930.63	-51.27	0.9	11.7	-40.47	V
8662.72	-52.02	0.9	11.9	-41.02	V
10395.67	-53.77	0.7	12.1	-42.37	H
12127.69	-54.18	0.6	13.2	-41.58	V

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 20400)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3510.45	-53.04	7.0	12.6	-47.44	V
5265.83	-52.69	5.0	12.7	-44.99	V
7020.68	-54.80	1.2	11.7	-44.30	V
8775.25	-52.76	1.1	11.9	-41.96	V



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10530.94	-52.04	0.6	12.1	-40.54	H
12285.37	-50.67	0.3	13.2	-37.77	V

## Test Data (3MHz Bandwidth QPSK Mode channel 19950)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3421.52	-52.28	6.9	12.6	-46.58	H
5131.27	-50.65	6.3	12.7	-44.25	H
6841.46	-53.74	0.8	11.7	-42.84	V
8551.83	-52.33	0.9	11.9	-41.33	V
10261.48	-53.61	0.5	12.1	-42.01	V
11971.89	-51.99	0.4	13.2	-39.19	V

## Test Data (3MHz Bandwidth QPSK Mode channel 20175)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.74	-50.24	6.9	12.6	-44.54	V
5197.45	-51.96	5.8	12.7	-45.06	H
6930.52	-50.55	0.9	11.7	-39.75	V
8662.94	-54.65	0.9	11.9	-43.65	V
10395.13	-51.63	0.7	12.1	-40.23	V
12127.57	-52.71	0.6	13.2	-40.11	H

## Test Data (3MHz Bandwidth QPSK Mode channel 20400)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3509.37	-51.69	7.0	12.6	-46.09	V
5264.37	-52.40	5.0	12.7	-44.70	V
7019.39	-54.95	1.2	11.7	-44.45	H
8774.73	-55.00	1.1	11.9	-44.20	V

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10529.39	-50.82	0.6	12.1	-39.32	V
12284.73	-52.71	0.3	13.2	-39.81	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 19950)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3421.35	-52.92	6.9	12.6	-47.22	V
5130.94	-54.92	6.3	12.7	-48.52	V
6841.47	-53.18	0.8	11.7	-42.28	V
8551.26	-51.61	0.9	11.9	-40.61	V
10260.99	-50.59	0.5	12.1	-38.99	H
11970.90	-53.85	0.4	13.2	-41.05	H

**Test Data (3MHz Bandwidth 16QAM Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.52	-52.96	6.9	12.6	-47.26	V
5197.83	-52.43	5.8	12.7	-45.53	V
6930.52	-52.07	0.9	11.7	-41.27	V
8662.51	-53.45	0.9	11.9	-42.45	H
10395.85	-51.15	0.7	12.1	-39.75	H
12127.74	-51.01	0.6	13.2	-38.41	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 20400)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3509.63	-51.94	7.0	12.6	-46.34	V
5264.72	-50.87	5.0	12.7	-43.17	V
7019.46	-52.45	1.2	11.7	-41.95	V

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8774.37	-51.27	1.1	11.9	-40.47	V
10530.26	-50.08	0.6	12.1	-38.58	V
12284.94	-51.24	0.3	13.2	-38.34	V

**Test Data (5MHz Bandwidth QPSK Mode channel 19975)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3422.75	-54.53	6.9	12.6	-48.83	V
5132.67	-52.05	6.3	12.7	-45.65	V
6841.85	-53.64	0.8	11.7	-42.74	V
8552.63	-54.46	0.9	11.9	-43.46	V
10260.74	-50.77	0.5	12.1	-39.17	H
11972.56	-50.90	0.4	13.2	-38.10	V

**Test Data (5MHz Bandwidth QPSK Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.32	-53.06	6.9	12.6	-47.36	V
5197.85	-52.49	5.8	12.7	-45.59	H
6930.45	-52.65	0.9	11.7	-41.85	V
8662.83	-52.09	0.9	11.9	-41.09	V
10395.45	-53.44	0.7	12.1	-42.04	V
12127.83	-54.03	0.6	13.2	-41.43	V

**Test Data (5MHz Bandwidth QPSK Mode channel 20375)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3508.45	-53.35	7.0	12.6	-47.75	H
5263.52	-50.95	5.0	12.7	-43.25	V
7018.72	-54.17	1.2	11.7	-43.67	H

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8773.22	-54.02	1.1	11.9	-43.22	V
10527.39	-50.19	0.6	12.1	-38.69	V
12284.28	-51.30	0.3	13.2	-38.40	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 19975)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3422.34	-51.87	6.9	12.6	-46.17	V
5132.12	-50.73	6.3	12.7	-44.33	V
6842.84	-50.88	0.8	11.7	-39.98	V
8552.37	-50.52	0.9	11.9	-39.52	V
10262.46	-52.77	0.5	12.1	-41.17	H
11972.28	-53.61	0.4	13.2	-40.81	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.42	-53.13	6.9	12.6	-47.43	V
5197.92	-53.29	5.8	12.7	-46.39	V
6930.35	-53.86	0.9	11.7	-43.06	V
8662.73	-50.47	0.9	11.9	-39.47	V
10395.42	-54.82	0.7	12.1	-43.42	H
12127.55	-53.18	0.6	13.2	-40.58	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 20375)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3508.25	-51.10	7.0	12.6	-45.50	V
5262.63	-52.81	5.0	12.7	-45.11	V

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7017.69	-54.76	1.2	11.7	-44.26	V
8773.14	-53.62	1.1	11.9	-42.82	V
10527.74	-53.35	0.6	12.1	-41.85	V
12283.62	-50.09	0.3	13.2	-37.19	V

**Test Data (10MHz Bandwidth QPSK Mode channel 20000)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3424.04	-51.98	6.9	12.6	-46.28	V
5133.84	-51.61	6.3	12.7	-45.21	H
6843.45	-53.11	0.8	11.7	-42.21	V
8552.47	-53.29	0.9	11.9	-42.29	V
10262.39	-52.56	0.5	12.1	-40.96	V
11974.19	-52.85	0.4	13.2	-40.05	V

**Test Data (10MHz Bandwidth QPSK Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.73	-54.29	6.9	12.6	-48.59	V
5198.23	-54.02	5.8	12.7	-47.12	H
6930.74	-53.78	0.9	11.7	-42.98	V
8662.25	-50.85	0.9	11.9	-39.85	V
10395.73	-53.70	0.7	12.1	-42.30	V
12127.15	-52.60	0.6	13.2	-40.00	V

**Test Data (10MHz Bandwidth QPSK Mode channel 20350)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3506.85	-52.87	7.0	12.6	-47.27	V
5261.63	-50.19	5.0	12.7	-42.49	V

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7016.97	-50.88	1.2	11.7	-40.38	V
8771.52	-53.08	1.1	11.9	-42.28	H
10525.73	-51.68	0.6	12.1	-40.18	V
12282.55	-50.16	0.3	13.2	-37.26	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 20000)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3424.63	-53.58	6.9	12.6	-47.88	V
5133.32	-54.36	6.3	12.7	-47.96	V
6844.84	-51.12	0.8	11.7	-40.22	V
8553.63	-50.09	0.9	11.9	-39.09	H
10263.83	-52.67	0.5	12.1	-41.07	V
11974.55	-53.32	0.4	13.2	-40.52	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 20175)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3465.63	-51.80	6.9	12.6	-46.10	V
5197.34	-54.24	5.8	12.7	-47.34	V
6930.73	-53.61	0.9	11.7	-42.81	V
8662.74	-54.56	0.9	11.9	-43.56	H
10395.23	-51.22	0.7	12.1	-39.82	V
12127.62	-52.29	0.6	13.2	-39.69	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 20350)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
3506.42	-53.37	7.0	12.6	-47.77	V

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5261.73	-53.95	5.0	12.7	-46.25	H
7016.35	-52.96	1.2	11.7	-42.46	V
8771.84	-54.28	1.1	11.9	-43.48	V
10525.27	-50.57	0.6	12.1	-39.07	V
12282.43	-54.30	0.3	13.2	-41.40	V

## Test Data (15MHz Bandwidth QPSK Mode channel 20025)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3426.21	-51.67	6.9	12.6	-45.97	V
5135.73	-53.31	6.3	12.7	-46.91	V
6845.83	-52.79	0.8	11.7	-41.89	H
8555.73	-52.11	0.9	11.9	-41.11	H
10264.72	-53.87	0.5	12.1	-42.27	V
11974.53	-54.42	0.4	13.2	-41.62	V

## Test Data (15MHz Bandwidth QPSK Mode channel 20175)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3465.52	-54.03	6.9	12.6	-48.33	V
5198.62	-50.58	5.8	12.7	-43.68	H
6930.34	-50.30	0.9	11.7	-39.50	V
8662.84	-52.27	0.9	11.9	-41.27	H
10396.84	-54.93	0.7	12.1	-43.53	V
12126.53	-51.29	0.6	13.2	-38.69	V

## Test Data (15MHz Bandwidth QPSK Mode channel 20325)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3504.45	-50.70	7.0	12.6	-45.10	V

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5259.34	-51.53	5.0	12.7	-43.83	V
7014.64	-54.46	1.2	11.7	-43.96	H
8770.35	-52.33	1.1	11.9	-41.53	V
10524.56	-53.91	0.6	12.1	-42.41	V
12280.45	-52.71	0.3	13.2	-39.81	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 20025)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3425.39	-53.29	6.9	12.6	-47.59	V
5135.15	-52.70	6.3	12.7	-46.30	V
6844.73	-54.43	0.8	11.7	-43.53	V
8554.28	-51.43	0.9	11.9	-40.43	V
10265.30	-53.14	0.5	12.1	-41.54	H
11975.12	-50.82	0.4	13.2	-38.02	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 20175)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3465.12	-52.67	6.9	12.6	-46.97	V
5196.85	-51.55	5.8	12.7	-44.65	V
6931.53	-51.23	0.9	11.7	-40.43	V
8662.71	-53.20	0.9	11.9	-42.20	H
10395.45	-51.53	0.7	12.1	-40.13	V
12127.34	-52.08	0.6	13.2	-39.48	V

## Test Data (15MHz Bandwidth 16QAM Mode channel 20325)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
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3504.26	-53.55	7	12.6	-47.95	V
5259.62	-52.06	5	12.7	-44.36	H
7014.43	-50.02	1.2	11.7	-39.52	H
8769.74	-53.00	1.1	11.9	-42.20	V
10523.83	-53.63	0.6	12.1	-42.13	V
12279.35	-50.19	0.3	13.2	-37.29	V

## Test Data (20MHz Bandwidth QPSK Mode channel 20050)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3428.45	-50.06	6.9	12.6	-44.36	V
5137.36	-52.33	6.3	12.7	-45.93	V
6847.22	-50.44	0.8	11.7	-39.54	V
8557.83	-51.50	0.9	11.9	-40.50	H
10266.24	-54.02	0.5	12.1	-42.42	V
11976.36	-53.74	0.4	13.2	-40.94	V

## Test Data (20MHz Bandwidth QPSK Mode channel 20175)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3465.42	-54.33	6.9	12.6	-48.63	V
5198.83	-51.94	5.8	12.7	-45.04	V
6930.41	-51.06	0.9	11.7	-40.26	V
8662.73	-52.21	0.9	11.9	-41.21	V
10396.36	-52.13	0.7	12.1	-40.73	V
12126.28	-50.98	0.6	13.2	-38.38	V

## Test Data (20MHz Bandwidth QPSK Mode channel 20300)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
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3504.66	-50.70	7.0	12.6	-45.10	V
5256.79	-51.53	5.0	12.7	-43.83	H
7013.74	-54.46	1.2	11.7	-43.96	V
8767.52	-52.33	1.1	11.9	-41.53	V
10521.35	-53.91	0.6	12.1	-42.41	V
12277.63	-52.71	0.3	13.2	-39.81	V

## Test Data (20MHz Bandwidth 16QAM Mode channel 20050)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3427.62	-54.53	6.9	12.6	-48.83	V
5136.83	-51.94	6.3	12.7	-45.54	V
6847.52	-54.08	0.8	11.7	-43.18	V
8556.94	-52.83	0.9	11.9	-41.83	V
10266.63	-54.47	0.5	12.1	-42.87	H
11975.93	-51.75	0.4	13.2	-38.95	V

## Test Data (20MHz Bandwidth 16QAM Mode channel 20175)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
3465.37	-51.99	6.9	12.6	-46.29	V
5196.52	-51.60	5.8	12.7	-44.70	V
6931.47	-54.18	0.9	11.7	-43.38	V
8662.68	-53.31	0.9	11.9	-42.31	H
10395.46	-50.30	0.7	12.1	-38.90	V
12127.63	-51.67	0.6	13.2	-39.07	V

## Test Data (20MHz Bandwidth 16QAM Mode channel 20300)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
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	[dBm]			[dBm]	
3505.74	-50.90	7.0	12.6	-45.30	V
5257.46	-53.17	5.0	12.7	-45.47	H
7013.78	-50.75	1.2	11.7	-40.25	V
8768.27	-54.47	1.1	11.9	-43.67	V
10521.63	-52.52	0.6	12.1	-41.02	V
12277.28	-54.62	0.3	13.2	-41.72	V

5.4.10 Cat-M Band 12 Radiated Spurious Emission Results

Test Data (1.4MHz Bandwidth QPSK Mode channel 23010)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1298.34	-34.64	4.2	7.5	-31.34	V
2097.62	-36.18	5.4	10.4	-31.18	V
2796.38	-39.74	6.2	10.6	-35.34	H
3495.47	-52.28	7.0	12.6	-46.68	V
4194.47	-53.39	7.8	12.6	-48.59	V
4893.35	-54.38	7.8	12.7	-49.48	V

Test Data (1.4MHz Bandwidth QPSK Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.54	-33.75	4.2	7.5	-30.45	V
2122.74	-38.29	5.4	10.4	-33.29	H
2830.46	-40.53	6.2	10.6	-36.13	V
3537.84	-50.51	7.0	12.6	-44.91	V
4245.35	-53.50	7.8	12.6	-48.70	V
4952.73	-53.97	7.8	12.7	-49.07	V

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## Test Data (1.4MHz Bandwidth QPSK Mode channel 23200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.36	-34.55	4.4	8.0	-30.95	V
2148.73	-37.28	5.4	10.4	-32.28	V
2865.46	-39.11	6.4	11.5	-34.01	V
3580.85	-52.57	7.2	12.6	-47.17	V
4296.25	-50.83	7.8	12.6	-46.03	H
5012.63	-52.30	7.5	13.1	-46.70	H

## Test Data (1.4MHz Bandwidth 16QAM Mode channel 23010)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1298.35	-33.55	4.2	7.5	-30.25	V
2097.37	-36.88	5.4	10.4	-31.88	H
2795.75	-38.14	6.2	10.6	-33.74	V
3495.63	-54.48	7.0	12.6	-48.88	V
4194.38	-54.47	7.8	12.6	-49.67	V
4893.35	-52.65	4.2	7.5	-49.35	V

## Test Data (1.4MHz Bandwidth 16QAM Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.46	-34.29	4.4	8.0	-30.69	V
2122.26	-38.77	5.4	10.4	-33.77	V
2831.63	-41.98	6.3	11.5	-36.78	V
3537.49	-53.15	7.0	12.6	-47.55	V
4246.52	-50.08	7.8	12.6	-45.28	H
4951.85	-54.63	7.9	13.1	-49.43	V

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336  
Tel: 0086-23-88069965 FAX: 0086-23-88608777

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## Test Data (1.4MHz Bandwidth 16QAM Mode channel 23200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.26	-33.79	4.4	8.0	-30.19	V
2149.44	-36.77	5.4	10.4	-31.77	V
2865.73	-40.28	6.4	11.5	-35.18	V
3581.35	-54.54	7.2	12.6	-49.14	H
4296.63	-53.05	7.8	12.6	-48.25	V
5013.40	-54.84	7.5	13.1	-49.24	V

## Test Data (3MHz Bandwidth QPSK Mode channel 23010)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1298.54	-32.64	4.2	7.5	-29.34	V
2097.34	-35.93	5.4	10.4	-30.93	V
2795.76	-39.62	6.2	10.6	-35.22	V
3495.27	-53.92	7.0	12.6	-48.32	V
4194.35	-52.33	7.8	12.6	-47.53	H
4892.56	-53.56	7.8	12.7	-48.66	H

## Test Data (3MHz Bandwidth QPSK Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.83	-34.19	4.2	7.5	-30.89	V
2122.13	-37.74	5.4	10.4	-32.74	H
2830.54	-39.85	6.2	10.6	-35.45	H
3537.74	-52.33	7.0	12.6	-46.73	V
4245.39	-50.45	7.8	12.6	-45.65	V
4952.59	-51.80	7.8	12.7	-46.90	V

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## Test Data (3MHz Bandwidth QPSK Mode channel 23200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.64	-33.64	4.4	8.0	-30.04	V
2148.38	-36.82	5.4	10.4	-31.82	V
2865.93	-39.78	6.4	11.5	-34.68	V
3580.45	-50.83	7.2	12.6	-45.43	V
4296.67	-51.93	7.8	12.6	-47.13	V
5012.34	-53.91	7.5	13.1	-48.31	V

## Test Data (3MHz Bandwidth 16QAM Mode channel 23010)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1298.58	-33.64	4.2	7.5	-30.34	V
2097.64	-36.29	5.4	10.4	-31.29	V
2795.87	-40.29	6.2	10.6	-35.89	V
3495.37	-54.20	7.0	12.6	-48.60	H
4194.26	-54.30	7.8	12.6	-49.50	V
4893.22	-51.40	7.8	12.7	-46.50	V

## Test Data (3MHz Bandwidth 16QAM Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.49	-35.83	4.2	7.5	-32.53	V
2122.53	-37.11	5.4	10.4	-32.11	V
2830.95	-41.84	6.2	10.6	-37.44	V
3537.59	-54.92	7.0	12.6	-49.32	V
4246.76	-51.08	7.8	12.6	-46.28	H
4951.45	-53.90	7.8	12.7	-49.00	V

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## Test Data (3MHz Bandwidth 16QAM Mode channel 23200)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1432.87	-33.67	4.4	8.0	-30.07	V
2149.34	-35.81	5.4	10.4	-30.81	H
2865.38	-40.48	6.4	11.5	-35.38	V
3581.75	-54.03	7.2	12.6	-48.63	V
4296.63	-50.90	7.8	12.6	-46.10	V
5013.29	-53.80	7.5	13.1	-48.20	V

## Test Data (5MHz Bandwidth QPSK Mode channel 23035)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1330.33	-34.19	4.2	7.5	-30.89	V
2099.24	-37.99	5.4	10.4	-32.99	V
2797.83	-41.39	6.2	10.6	-36.99	V
3497.89	-50.37	7.0	12.6	-44.77	H
4196.32	-54.58	7.8	12.6	-49.78	V
4894.39	-51.52	7.8	12.7	-46.62	V

## Test Data (5MHz Bandwidth QPSK Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.39	-33.19	4.2	7.5	-29.89	V
2121.93	-37.81	5.4	10.4	-32.81	V
2830.52	-40.77	6.2	10.6	-36.37	H
3537.64	-54.86	7.0	12.6	-49.26	V
4245.27	-50.88	7.8	12.6	-46.08	V
4952.24	-51.46	7.8	12.7	-46.56	V

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## Test Data (5MHz Bandwidth QPSK Mode channel 23175)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1430.24	-33.65	4.4	8.0	-30.05	V
2146.29	-38.74	5.4	10.4	-33.74	V
2863.56	-41.28	6.4	11.5	-36.18	H
3578.83	-50.94	7.2	12.6	-45.54	V
4294.28	-53.99	7.8	12.6	-49.19	V
5010.88	-52.44	7.5	13.1	-46.84	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 23035)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1299.39	-33.67	4.2	7.5	-30.37	V
2100.39	-37.11	5.4	10.4	-32.11	V
2797.83	-40.82	6.2	10.6	-36.42	V
3497.29	-52.55	7.0	12.6	-46.95	H
4197.38	-54.28	7.8	12.6	-49.48	V
4895.67	-53.76	7.8	12.7	-48.86	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.38	-35.12	4.2	7.5	-31.82	V
2122.42	-38.89	5.4	10.4	-33.89	H
2830.17	-40.99	6.2	10.6	-36.59	V
3537.82	-51.11	7.0	12.6	-45.51	V
4246.46	-54.23	7.8	12.6	-49.43	V
4951.82	-54.81	7.8	12.7	-49.91	V

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## Test Data (5MHz Bandwidth 16QAM Mode channel 23175)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1430.38	-34.66	4.4	8.0	-31.06	V
2148.52	-39.01	5.4	10.4	-34.01	V
2863.71	-40.78	6.4	11.5	-35.68	V
3579.34	-54.36	7.2	12.6	-48.96	H
4294.78	-50.80	7.8	12.6	-46.00	V
5011.34	-52.82	7.5	13.1	-47.22	V

## Test Data (10MHz Bandwidth QPSK Mode channel 23060)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1332.32	-33.76	4.2	7.5	-30.46	V
2100.45	-37.38	5.4	10.4	-32.38	V
2799.23	-39.08	6.2	10.6	-34.68	H
3499.84	-50.73	7.0	12.6	-45.13	V
4198.29	-52.42	7.8	12.6	-47.62	V
4896.83	-53.37	7.8	12.7	-48.47	V

## Test Data (10MHz Bandwidth QPSK Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.34	-33.65	4.2	7.5	-30.35	V
2120.95	-35.84	5.4	10.4	-30.84	V
2830.25	-39.28	6.2	10.6	-34.88	H
3536.63	-52.75	7.0	12.6	-47.15	V
4245.62	-50.30	7.8	12.6	-45.50	V
4952.74	-53.69	7.8	12.7	-48.79	V

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## Test Data (10MHz Bandwidth QPSK Mode channel 23150)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1428.53	-33.45	4.4	8.0	-29.85	V
2144.48	-36.92	5.4	10.4	-31.92	H
2861.73	-39.04	6.4	11.5	-33.94	V
3576.28	-53.93	7.2	12.6	-48.53	V
4292.59	-53.52	7.8	12.6	-48.72	V
5009.16	-54.71	7.5	13.1	-49.11	V

## Test Data (10MHz Bandwidth 16QAM Mode channel 23060)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1301.84	-32.98	4.2	7.5	-29.68	V
2101.56	-36.85	5.4	10.4	-31.85	V
2799.84	-38.87	6.2	10.6	-34.47	V
3498.69	-51.13	7.0	12.6	-45.53	H
4199.23	-52.42	7.8	12.6	-47.62	V
4897.44	-52.80	7.8	12.7	-47.90	V

## Test Data (10MHz Bandwidth 16QAM Mode channel 23095)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1415.74	-34.03	4.2	7.5	-30.73	V
2122.29	-36.83	5.4	10.4	-31.83	H
2830.58	-38.72	6.2	10.6	-34.32	V
3537.18	-52.98	7.0	12.6	-47.38	V
4245.63	-52.78	7.8	12.6	-47.98	V
4951.71	-54.89	7.8	12.7	-49.99	V

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### Test Data (10MHz Bandwidth 16QAM Mode channel 23150)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1428.65	-33.74	4.4	8.0	-30.14	V
2146.39	-37.21	5.4	10.4	-32.21	H
2861.48	-40.56	6.4	11.5	-35.46	V
3577.95	-50.42	7.2	12.6	-45.02	V
4292.34	-54.00	7.8	12.6	-49.20	V
5009.52	-50.92	7.5	13.1	-45.32	V

### 5.4.11 Cat-M Band 13 Radiated Spurious Emission Results

#### Test Data (5MHz Bandwidth QPSK Mode channel 23205)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1557.23	-34.87	4.6	8.0	-31.47	V
2334.92	-37.91	5.6	10.6	-32.91	V
3111.36	-54.39	6.5	11.5	-49.39	V
3887.39	-53.85	7.4	12.6	-48.65	H
4665.84	-52.20	8.1	12.7	-47.60	V
5443.64	-51.42	2.9	13.1	-41.22	V

#### Test Data (5MHz Bandwidth QPSK Mode channel 23230)

Frequency [MHz]	Generator output power( $P_g$ ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power ( $P_d$ ) [dBm]	Antenna Polarization [H/V]
1565.28	-34.56	4.6	8.0	-31.16	V
2346.43	-39.64	5.6	10.4	-34.84	V
3128.45	-51.74	6.6	11.5	-46.84	V
3911.38	-52.58	7.4	12.6	-47.38	H
4692.74	-51.69	8.1	12.6	-47.19	V

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5475.45	-51.20	2.9	13.1	-41.00	V
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## Test Data (5MHz Bandwidth QPSK Mode channel 23255)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1573.62	-35.83	4.6	8.0	-32.43	V
2359.23	-38.11	5.7	10.4	-33.41	V
3147.31	-53.43	6.5	11.5	-48.43	V
3934.79	-53.59	7.5	12.6	-48.49	H
4720.34	-51.78	8.1	12.6	-47.28	V
5509.52.	-54.37	2.5	13.1	-43.77	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 23205)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1555.39	-34.88	4.6	8.0	-31.48	V
2334.28	-38.28	5.6	10.6	-33.28	V
3111.37	-54.12	6.5	11.5	-49.12	H
3886.56	-50.15	7.4	12.6	-44.95	V
4665.39	-50.51	8.1	12.7	-45.91	V
5443.75	-53.48	2.9	13.1	-43.28	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 23230)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1565.54	-33.87	4.6	8.0	-30.47	V
2346.23	-37.84	5.6	10.4	-33.04	V
3128.74	-52.38	6.6	11.5	-47.48	V
3910.38	-52.82	7.4	12.6	-47.62	H

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4690.34	-54.12	8.1	12.6	-49.62	V
5475.74	-52.90	2.9	13.1	-42.70	V

**Test Data (5MHz Bandwidth 16QAM Mode channel 23255)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1571.45	-34.66	4.6	8.0	-31.26	V
2358.83	-39.54	5.7	10.4	-34.84	V
3147.37	-54.90	6.5	11.5	-49.90	V
3932.54	-53.86	7.5	12.6	-48.76	H
4717.35	-52.10	8.1	12.6	-47.60	V
5506.30	-51.30	2.5	13.1	-40.70	V

**Test Data (10MHz Bandwidth QPSK Mode channel 23230)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1565.22	-34.61	4.6	8.0	-31.21	V
2346.48	-39.60	5.6	10.4	-34.80	V
3128.48	-51.77	6.6	11.5	-46.87	V
3911.31	-52.48	7.4	12.6	-47.28	H
4692.44	-51.65	8.1	12.6	-47.15	V
5475.37	-51.20	2.9	13.1	-41.00	V

**Test Data (10MHz bandwidth 16QAM Mode channel 23230)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1565.24	-33.66	4.6	8.0	-30.26	V
2346.17	-37.82	5.6	10.4	-33.02	V
3128.55	-52.27	6.6	11.5	-47.37	V
3910.13	-52.80	7.4	12.6	-47.60	H

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4690.32	-54.12	8.1	12.6	-49.62	V
5475.66	-52.90	2.9	13.1	-42.70	V

**5.4.12 Cat-M Band 26 Radiated Spurious Emission Results**

**Test Data (1.4MHz Bandwidth QPSK Mode channel 26690)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1628.46	-33.54	4.7	9.4	-28.84	V
2442.28	-38.54	5.9	10.6	-33.84	V
3256.83	-51.84	6.7	12.6	-45.94	V
4070.17	-54.62	7.6	12.6	-49.62	V
4884.56	-53.78	7.9	12.7	-48.98	V
5698.29	-53.06	1.7	13.1	-41.66	H

**Test Data (1.4MHz Bandwidth QPSK Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.38	-34.66	4.7	9.4	-29.96	V
2494.46	-38.27	5.9	10.6	-33.57	V
3326.47	-54.01	6.8	12.6	-48.21	V
4157.84	-52.51	7.6	12.6	-47.51	V
4989.45	-54.95	7.5	12.7	-49.75	H
5820.24	-52.32	1.4	13.1	-40.62	V

**Test Data (1.4MHz Bandwidth QPSK Mode channel 27040)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1698.28	-34.67	4.8	9.4	-30.07	V
2547.62	-38.27	5.9	10.6	-33.57	V
3396.56	-51.18	6.9	12.6	-45.48	V

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4245.87	-52.28	7.8	12.6	-47.48	V
5094.45	-50.42	6.8	12.7	-44.52	H
5943.86	-50.99	1.4	13.1	-39.29	V

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 26690)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1628.43	-34.64	4.7	9.4	-29.94	V
2442.49	-39.54	5.9	10.6	-34.84	V
3256.53	-54.05	6.7	12.6	-48.15	V
4071.59	-50.10	7.6	12.6	-45.10	V
4885.23	-50.48	7.9	12.7	-45.68	V
5698.34	-52.82	1.7	13.1	-41.42	V

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.32	-35.88	4.7	9.4	-31.18	V
2495.87	-37.92	5.9	10.6	-33.22	V
3325.57	-52.65	6.8	12.6	-46.85	H
4157.33	-53.24	7.6	12.6	-48.24	V
4990.90	-50.09	7.5	12.7	-44.89	V
5820.53	-54.94	1.4	13.1	-43.24	V

**Test Data (1.4MHz Bandwidth 16QAM Mode channel 27040)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1698.38	-34.76	4.8	9.4	-30.16	V
2547.45	-38.23	5.9	10.6	-33.53	V
3396.73	-52.09	6.9	12.6	-46.39	V

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4245.49	-52.88	7.8	12.6	-48.08	V
5095.73	-50.15	6.8	12.7	-44.25	H
5943.64	-51.75	1.4	13.1	-40.05	V

**Test Data (3MHz Bandwidth QPSK Mode channel 26690)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1629.54	-33.76	4.7	9.4	-29.06	V
2443.74	-37.67	5.9	10.6	-32.97	V
3257.34	-50.97	6.7	12.6	-45.07	H
4071.39	-52.10	7.6	12.6	-47.10	V
4885.87	-52.77	7.9	12.7	-47.97	V
5699.62	-53.75	1.7	13.1	-42.35	V

**Test Data (3MHz Bandwidth QPSK Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.53	-34.05	4.7	9.4	-29.35	V
2494.85	-37.45	5.9	10.6	-32.75	V
3326.67	-54.07	6.8	12.6	-48.27	V
4157.33	-50.55	7.6	12.6	-45.55	V
4989.75	-53.61	7.5	12.7	-48.41	H
5820.34	-51.37	1.4	13.1	-39.67	V

**Test Data (3MHz Bandwidth QPSK Mode channel 27040)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1697.54	-33.88	4.8	9.4	-29.28	V
2546.44	-37.89	5.9	10.6	-33.19	V
3395.87	-54.80	6.9	12.6	-49.10	V

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4244.24	-52.65	7.8	12.6	-47.85	H
5093.65	-50.78	6.8	12.7	-44.88	V
5942.49	-52.11	1.4	13.1	-40.41	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 26690)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1627.45	-34.33	4.7	9.4	-29.63	V
2441.84	-38.54	5.9	10.6	-33.84	V
3255.67	-50.83	6.7	12.6	-44.93	V
4070.43	-52.67	7.6	12.6	-47.67	H
4884.76	-51.92	7.9	12.7	-47.12	V
5697.22	-52.57	1.7	13.1	-41.17	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.45	-34.66	4.7	9.4	-29.96	H
2495.63	-37.45	5.9	10.6	-32.75	V
3325.56	-54.49	6.8	12.6	-48.69	V
4157.29	-54.37	7.6	12.6	-49.37	V
4990.95	-53.50	7.5	12.7	-48.30	V
5820.29	-53.70	1.4	13.1	-42.00	V

**Test Data (3MHz Bandwidth 16QAM Mode channel 27040)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1698.38	-34.65	4.8	9.4	-30.05	V
2547.45	-38.22	5.9	10.6	-33.52	H
3395.68	-50.99	6.9	12.6	-45.29	V

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4244.77	-51.81	7.8	12.6	-47.01	V
5094.59	-51.87	6.8	12.7	-45.97	V
5942.67	-54.28	1.4	13.1	-42.58	V

**Test Data (5MHz Bandwidth QPSK Mode channel 26715)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1630.65	-34.63	4.7	9.4	-29.93	V
2445.28	-38.53	5.9	10.6	-33.83	V
3259.64	-51.34	6.7	12.6	-45.44	H
4073.46	-54.97	7.6	12.6	-49.97	V
4887.88	-53.36	7.9	12.7	-48.56	V
5700.96	-52.33	1.7	13.1	-40.93	V

**Test Data (5MHz Bandwidth QPSK Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.53	-33.83	4.7	9.4	-29.13	V
2494.82	-38.44	5.9	10.6	-33.74	V
3326.48	-50.30	6.8	12.6	-44.50	H
4157.97	-52.64	7.6	12.6	-47.64	V
4989.13	-53.82	7.5	12.7	-48.62	V
5820.67	-51.25	1.4	13.1	-39.55	V

**Test Data (5MHz Bandwidth QPSK Mode channel 27015)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1696.35	-34.61	4.8	9.4	-30.01	V
2545.72	-38.53	5.9	10.6	-33.83	H
3394.47	-50.96	6.9	12.6	-45.26	V

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4243.82	-54.71	7.8	12.6	-49.91	H
5092.57	-51.32	6.8	12.7	-45.42	V
5941.93	-52.68	1.4	13.1	-40.98	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 26715)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1629.45	-34.72	4.7	9.4	-30.02	V
2443.48	-37.90	5.9	10.6	-33.20	V
3257.76	-50.18	6.7	12.6	-44.28	V
4072.68	-50.99	7.6	12.6	-45.99	V
4886.88	-52.60	7.9	12.7	-47.80	V
5699.49	-53.38	1.7	13.1	-41.98	H

## Test Data (5MHz Bandwidth 16QAM Mode channel 26856)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.15	-33.65	4.7	9.4	-28.95	V
2495.84	-39.07	5.9	10.6	-34.37	V
3325.55	-52.51	6.8	12.6	-46.71	H
4157.89	-52.58	7.6	12.6	-47.58	H
4990.52	-51.96	7.5	12.7	-46.76	V
5820.59	-52.53	1.4	13.1	-40.83	V

## Test Data (5MHz Bandwidth 16QAM Mode channel 27015)

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1696.53	-34.62	4.8	9.4	-30.02	V
2545.31	-38.59	5.9	10.6	-33.89	V
3394.20	-50.94	6.9	12.6	-45.24	V

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4243.45	-54.33	7.8	12.6	-49.53	V
5092.23	-53.23	6.8	12.7	-47.33	H
5941.57	-51.11	1.4	13.1	-39.41	H

**Test Data (10MHz Bandwidth QPSK Mode channel 26740)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1632.47	-34.73	4.7	9.4	-30.03	V
2447.47	-38.79	5.9	10.6	-34.09	V
3261.31	-51.47	6.7	12.6	-45.57	V
4075.79	-51.98	7.6	12.6	-46.98	V
4889.24	-52.71	7.9	12.7	-47.91	H
5702.62	-51.16	1.7	13.1	-39.76	V

**Test Data (10MHz Bandwidth QPSK Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.41	-34.73	4.7	9.4	-30.03	V
2494.78	-38.70	5.9	10.6	-34.00	V
3326.52	-50.19	6.8	12.6	-44.39	H
4157.36	-51.27	7.6	12.6	-46.27	H
4989.82	-54.93	7.5	12.7	-49.73	V
5820.53	-52.18	1.4	13.1	-40.48	V

**Test Data (10MHz Bandwidth QPSK Mode channel 26990)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1694.26	-33.87	4.8	9.4	-29.27	V
2543.14	-38.51	5.9	10.6	-33.81	V
3392.84	-50.53	6.9	12.6	-44.83	V

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4241.38	-52.15	7.8	12.6	-47.35	H
5090.78	-52.89	6.8	12.7	-46.99	V
5939.46	-52.62	1.4	13.1	-40.92	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 26740)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1632.53	-34.51	4.7	9.4	-29.81	V
2445.17	-39.07	5.9	10.6	-34.37	V
3259.47	-50.01	6.7	12.6	-44.11	H
4075.95	-52.78	7.6	12.6	-47.78	V
4888.60	-53.59	7.9	12.7	-48.79	H
5701.23	-51.17	1.7	13.1	-39.77	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.42	-33.78	4.7	9.4	-29.08	V
2495.61	-38.64	5.9	10.6	-33.94	V
3325.49	-50.40	6.8	12.6	-44.60	H
4157.73	-53.33	7.6	12.6	-48.33	H
4990.69	-54.79	7.5	12.7	-49.59	V
5820.58	-53.39	1.4	13.1	-41.69	V

**Test Data (10MHz Bandwidth 16QAM Mode channel 26990)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1694.56	-33.67	4.8	9.4	-29.07	V
2543.49	-39.64	5.9	10.6	-34.94	V
3392.63	-52.35	6.9	12.6	-46.65	V

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4241.48	-52.38	7.8	12.6	-47.58	V
5090.23	-54.30	6.8	12.7	-48.40	V
5939.47	-54.42	1.4	13.1	-42.72	V

**Test Data (15MHz Bandwidth QPSK Mode channel 26765)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1634.28	-34.22	4.7	9.4	-29.52	V
2449.54	-38.74	5.9	10.6	-34.04	V
3263.58	-53.79	6.7	12.6	-47.89	V
4077.34	-50.06	7.6	12.6	-45.06	V
4891.39	-52.37	7.9	12.7	-47.57	V
5704.81	-51.33	1.7	13.1	-39.93	H

**Test Data (15MHz Bandwidth QPSK Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.45	-34.91	4.7	9.4	-30.21	V
2494.72	-39.13	5.9	10.6	-34.43	V
3326.34	-50.54	6.8	12.6	-44.74	V
4157.84	-52.57	7.6	12.6	-47.57	H
4989.26	-52.35	7.5	12.7	-47.15	V
5820.53	-50.01	1.4	13.1	-38.31	V

**Test Data (15MHz Bandwidth QPSK Mode channel 26965)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1692.41	-33.54	4.8	9.4	-28.94	V
2541.74	-38.81	5.9	10.6	-34.11	V
3390.36	-50.25	6.9	12.6	-44.55	H

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336  
 Tel: 0086-23-88069965 FAX: 0086-23-88608777

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4239.51	-53.69	7.8	12.6	-48.89	V
5088.36	-52.23	6.8	12.7	-46.33	V
5937.73	-54.57	1.4	13.1	-42.87	V

**Test Data (15MHz Bandwidth 16QAM Mode channel 26765)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1634.45	-33.86	4.7	9.4	-29.16	V
2449.16	-38.39	5.9	10.6	-33.69	V
3263.74	-52.44	6.7	12.6	-46.54	H
4077.58	-53.76	7.6	12.6	-48.76	V
4891.48	-53.25	7.9	12.7	-48.45	H
5704.64	-51.49	1.7	13.1	-40.09	V

**Test Data (15MHz Bandwidth 16QAM Mode channel 26856)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1663.27	-34.52	4.7	9.4	-29.82	V
2495.57	-39.25	5.9	10.6	-34.55	V
3325.22	-54.57	6.8	12.6	-48.77	H
4157.21	-51.36	7.6	12.6	-46.36	H
4990.69	-52.37	7.5	12.7	-47.17	V
5820.40	-51.09	1.4	13.1	-39.39	V

**Test Data (15MHz Bandwidth 16QAM Mode channel 26965)**

Frequency [MHz]	Generator output power(P <sub>g</sub> ) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P <sub>d</sub> ) [dBm]	Antenna Polarization [H/V]
1692.47	-33.62	4.8	9.4	-29.02	V
2541.54	-38.73	5.9	10.6	-34.03	V
3390.74	-52.37	6.9	12.6	-46.67	V

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4239.3	-51.11	7.8	12.6	-46.31	H
5088.89	-50.80	6.8	12.7	-44.90	V
5937.68	-50.77	1.4	13.1	-39.07	V



5.5 Band Edge

<b>Specifications:</b>	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
<b>DUT Serial Number:</b>	S1: D20618181ACDFF4
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	--

**Limit Level Construction:**

**According to Part 22.917 (a)**, i.e., Out of Band emissions. 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 Part 24.238 (a)**, i.e., Out of Band emissions. 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, so the limit level is:  $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$ .

**According to Part 27.53(h):**

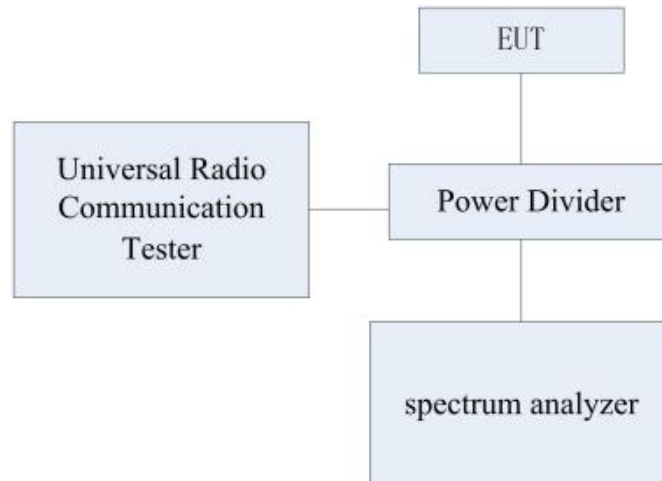
Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

**According to Part 27.53(g):**

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a 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, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

### Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.

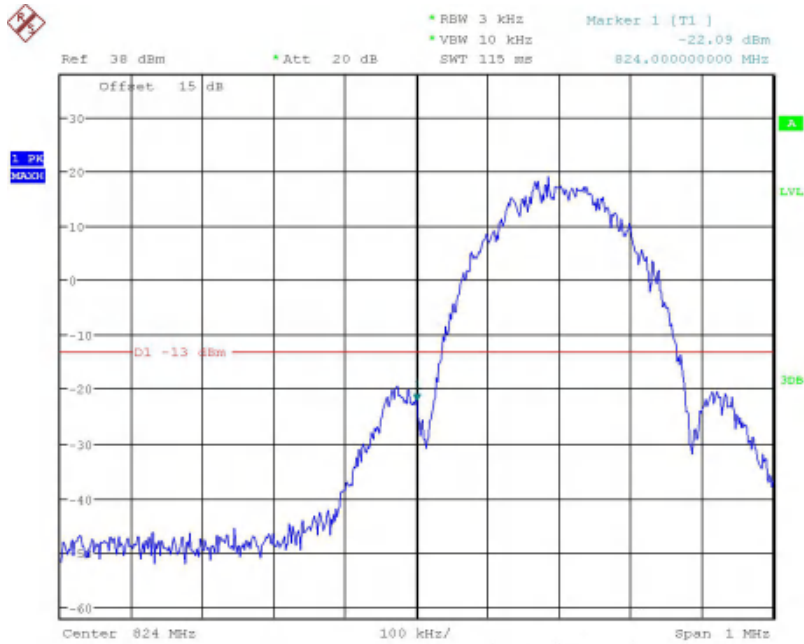


### Test Method:

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer is slightly greater than 1% of the transmission bandwidth of 26dB or greater than or equal to 30kHz.

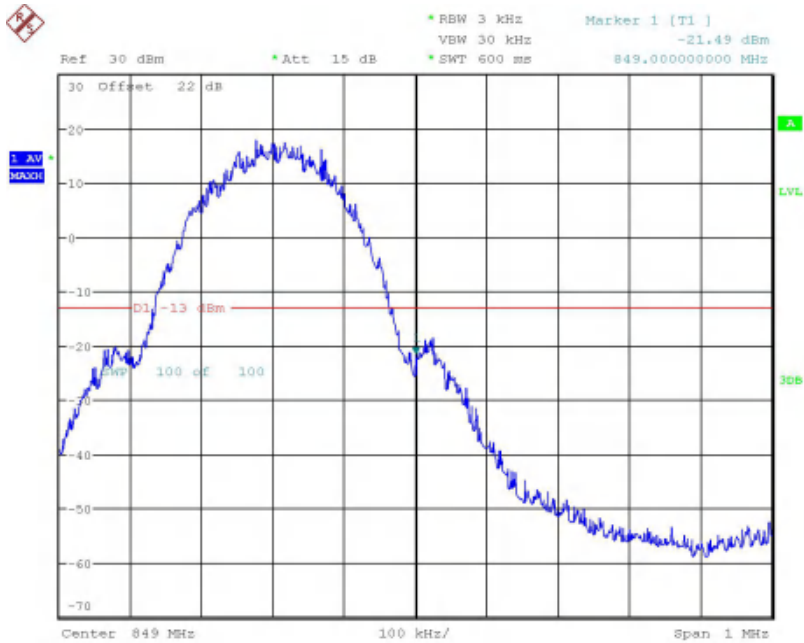
**Note:** In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

5.5.1 GSM850 Band Edge Results



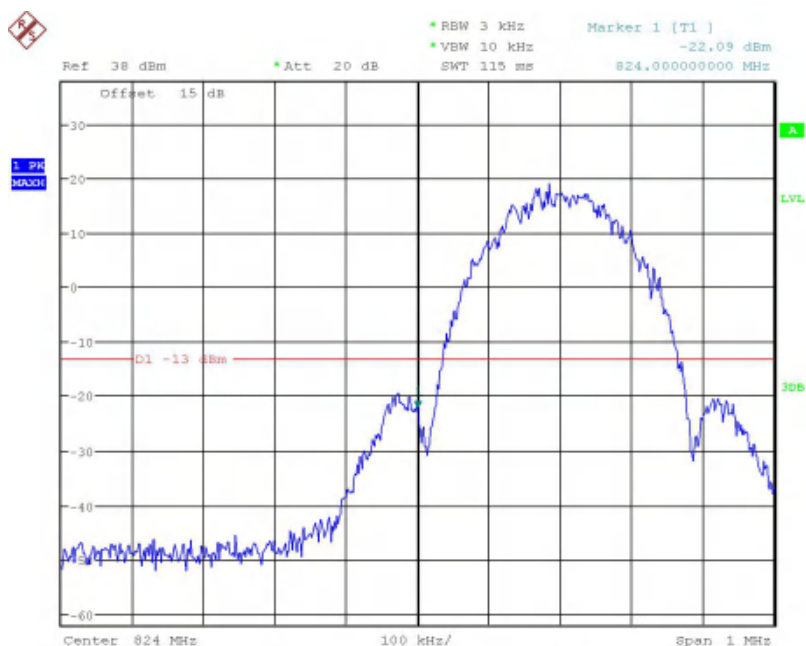
Date: 3.AUG.2018 11:28:13

GSMK-Cellular low channel-below 824 MHz



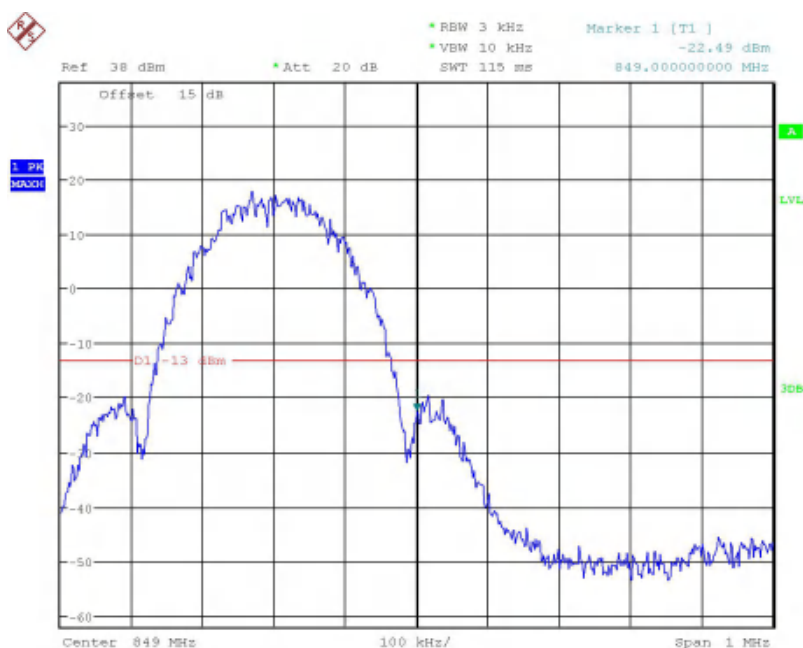
Date: 9.AUG.2018 10:15:26

GMSK-Cellular high channel-above 849 MHz



Date: 3.AUG.2018 11:28:13

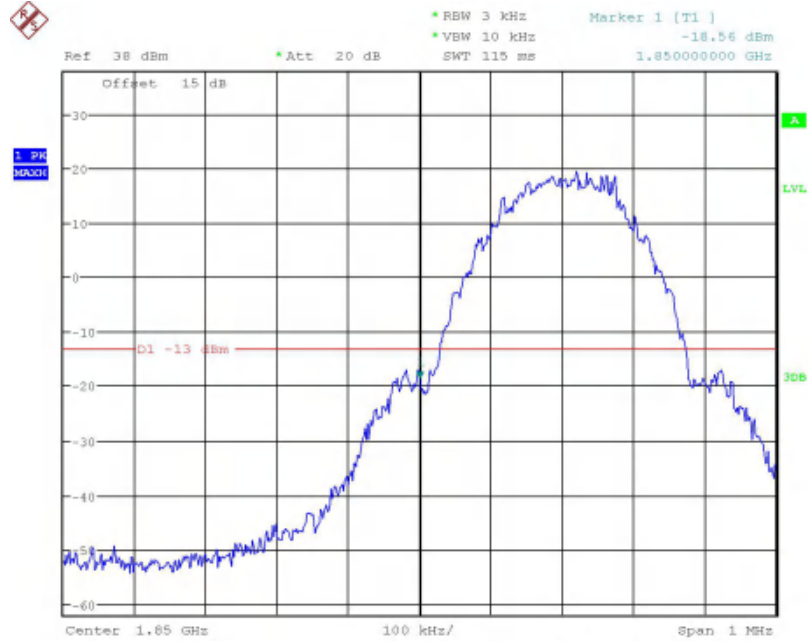
8PSK-Cellular low channel-below 824 MHz



Date: 3.AUG.2018 11:28:54

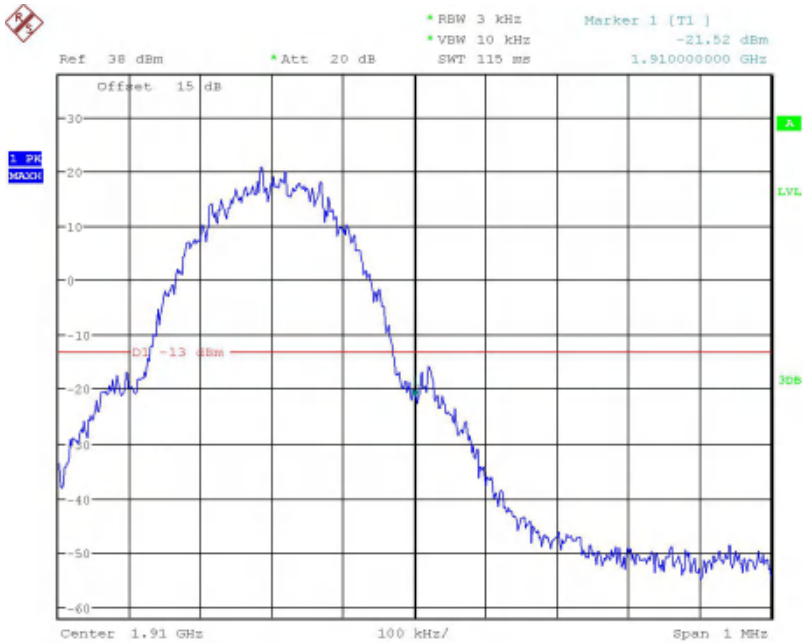
8PSK-Cellular high channel-above 849 MHz

5.5.2 PCS1900 Band Edge Results



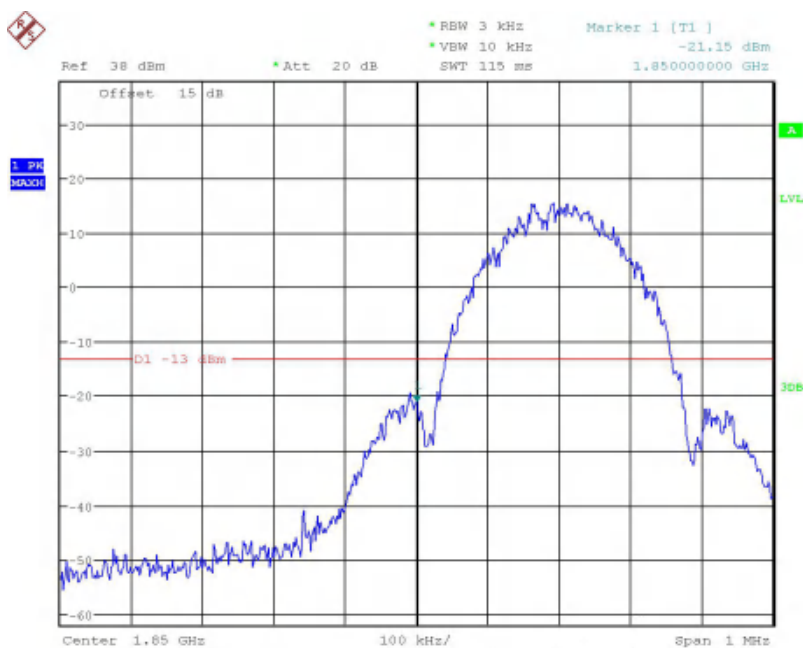
Date: 9.AUG.2018 11:17:50

GMSK-PCS low channel-below 1850 MHz



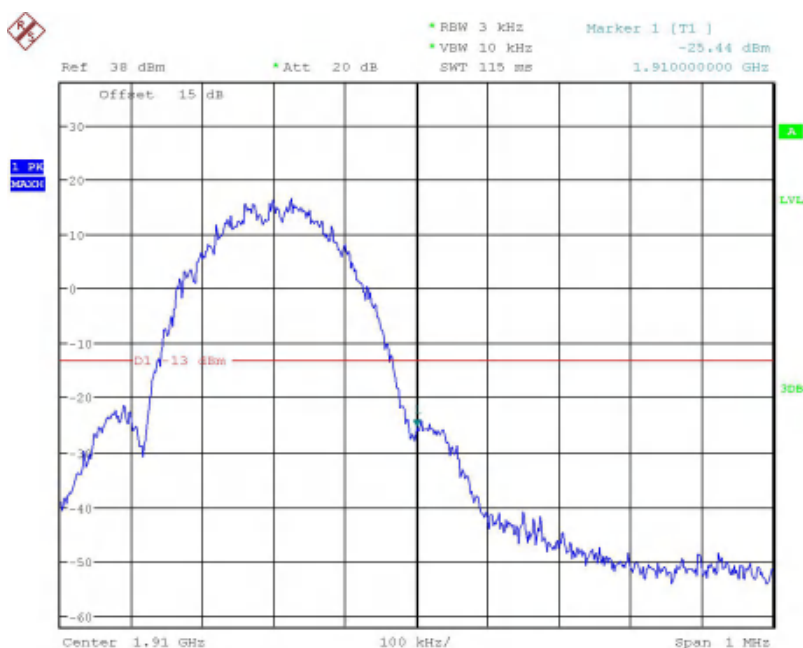
Date: 3.AUG.2018 11:18:37

GMSK-PCS high channel-above 1910 MHz



Date: 3.AUG.2018 11:12:18

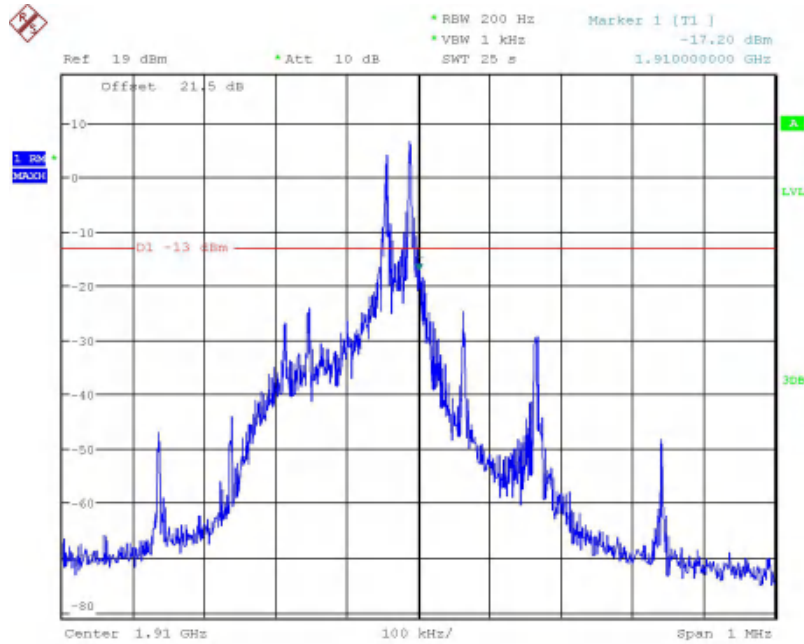
### 8PSK-PCS low channel-below 1850 MHz



Date: 3.AUG.2018 11:13:50

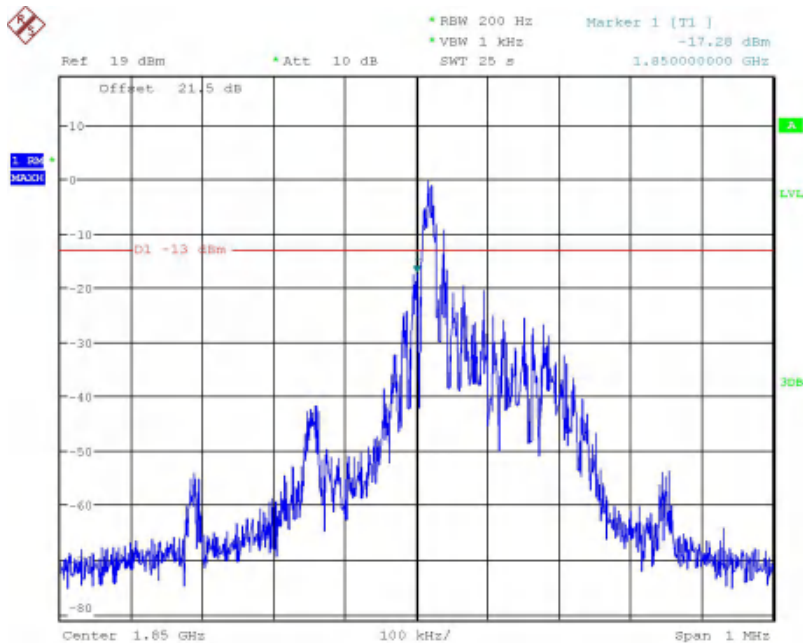
### 8PSK-PCS high channel-above 1910 MHz

5.5.3 NB-IoT Band2 Edge Results



Date: 5.AUG.2018 23:10:58

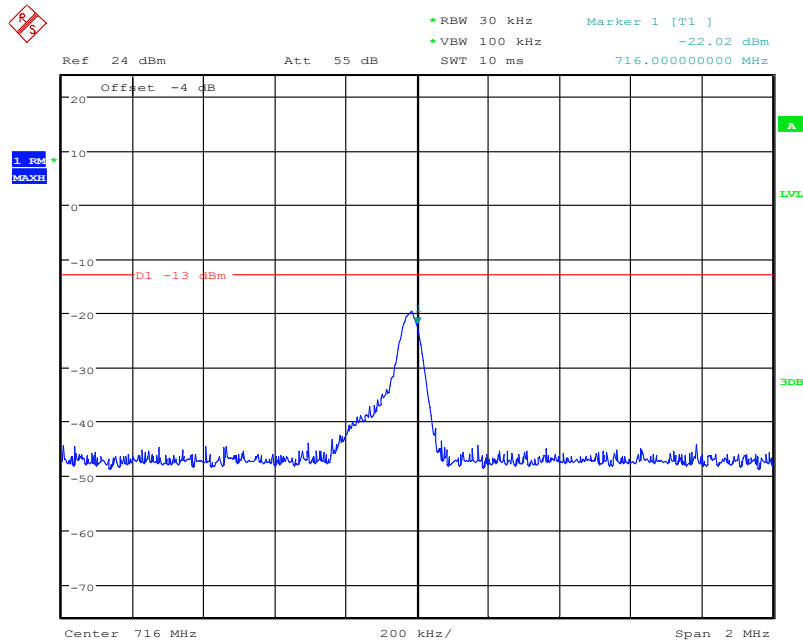
Band2-High Channel



Date: 5.AUG.2018 23:06:14

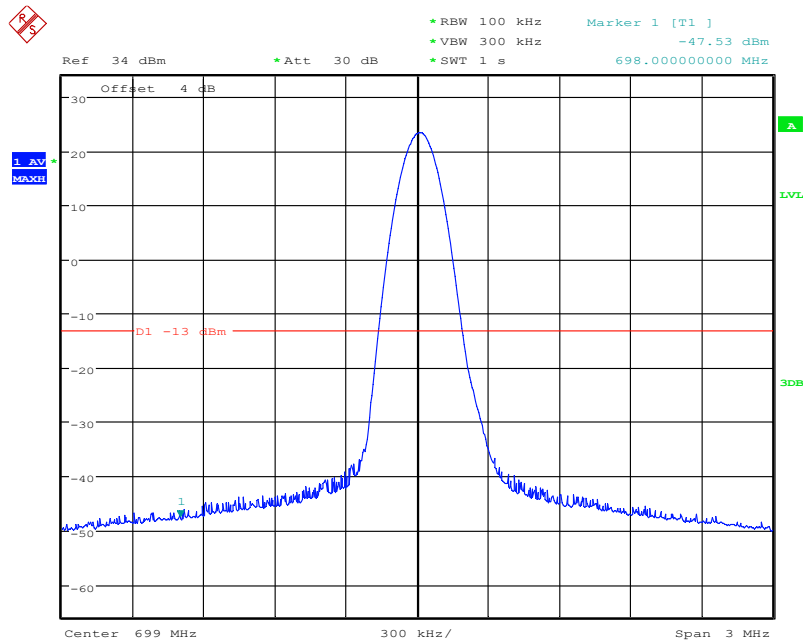
Band2-Low Channel

5.5.4 NB-IoT Band12 Edge Results



Date: 15.JAN.2020 10:45:22

Band12-High Channel

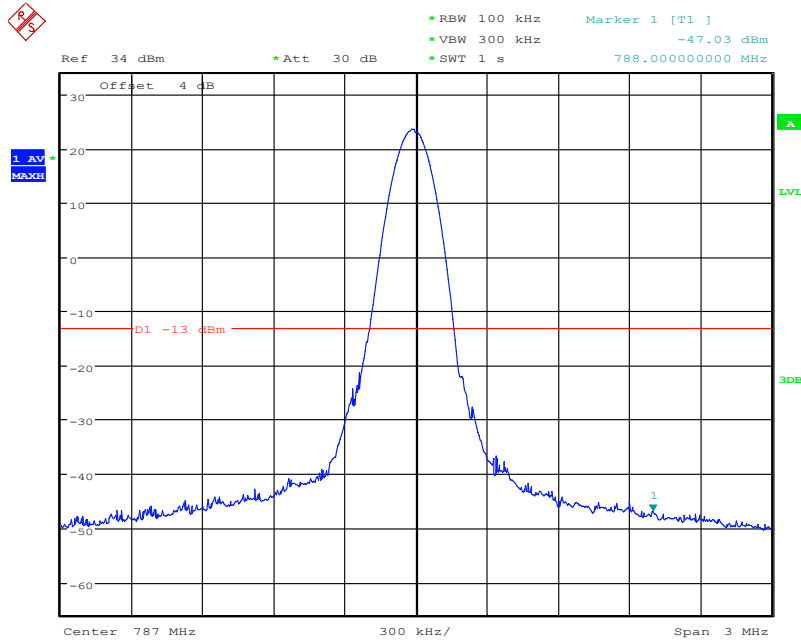


Date: 22.OCT.2019 10:04:19

Band12-Low Channel

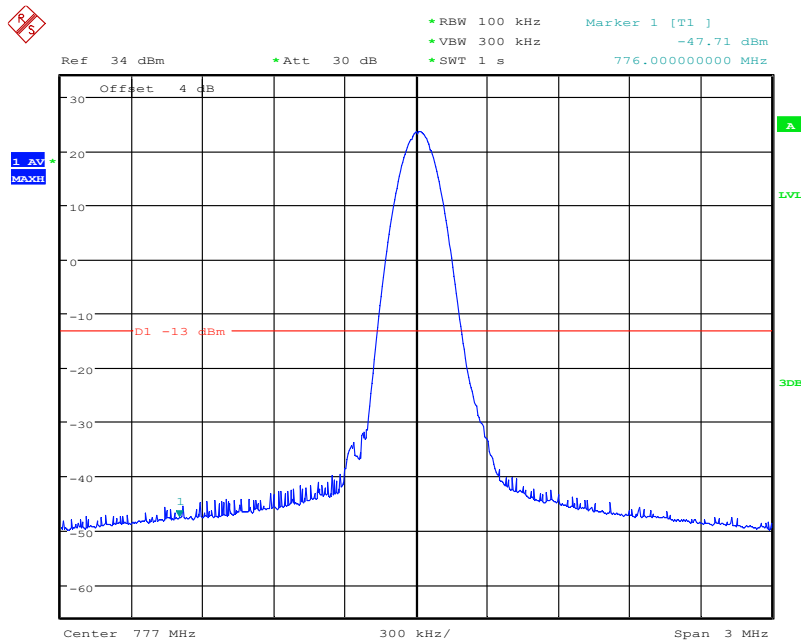


5.5.5 NB-IoT Band13 Edge Results



Date: 22.OCT.2019 10:28:49

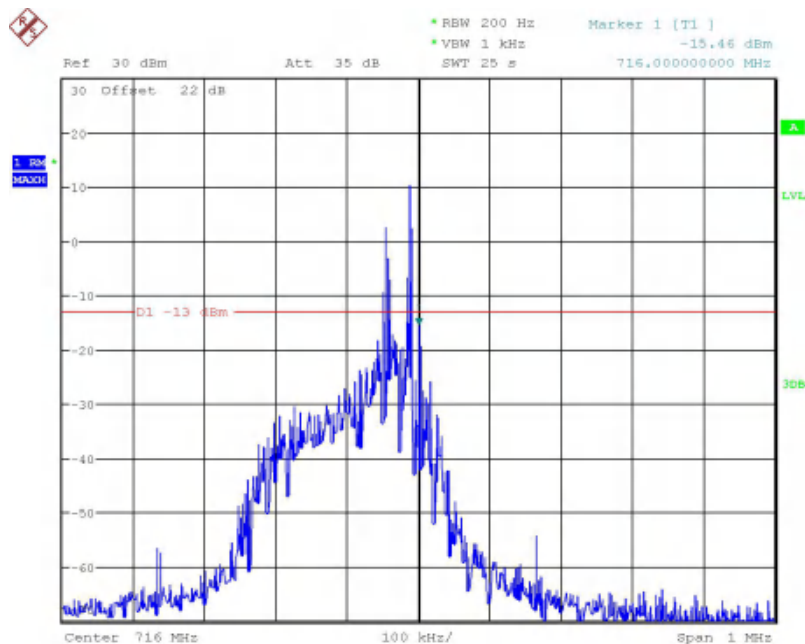
Band13-High Channel



Date: 22.OCT.2019 10:22:02

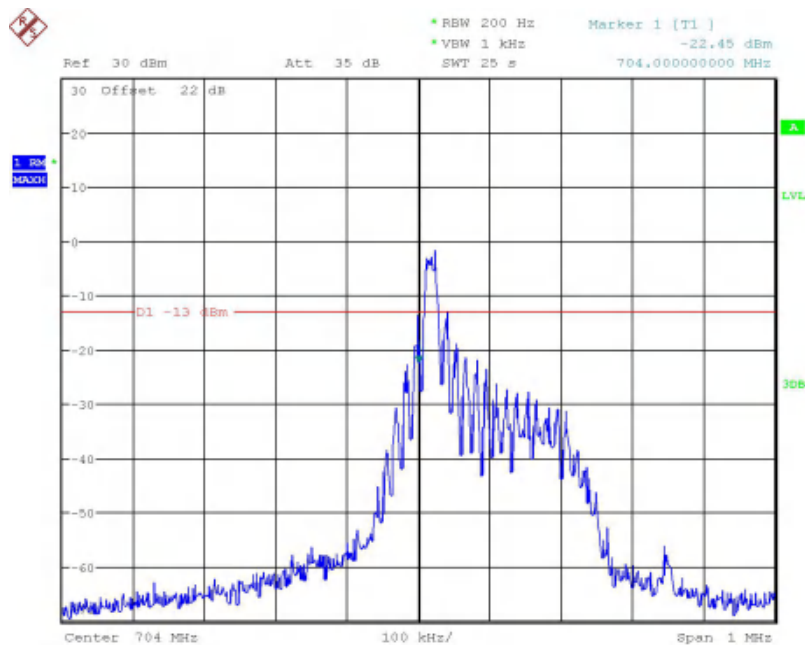
Band13-Low Channel

### 5.5.6 NB-IoT Band17 Edge Results



Date: 5.AUG.2018 21:48:20

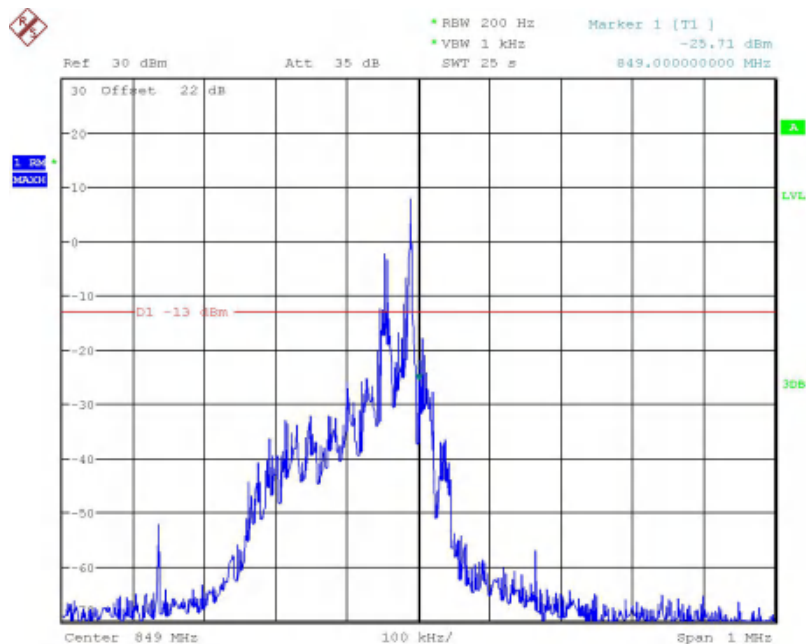
### Band17-High Channel



Date: 5.AUG.2018 21:29:10

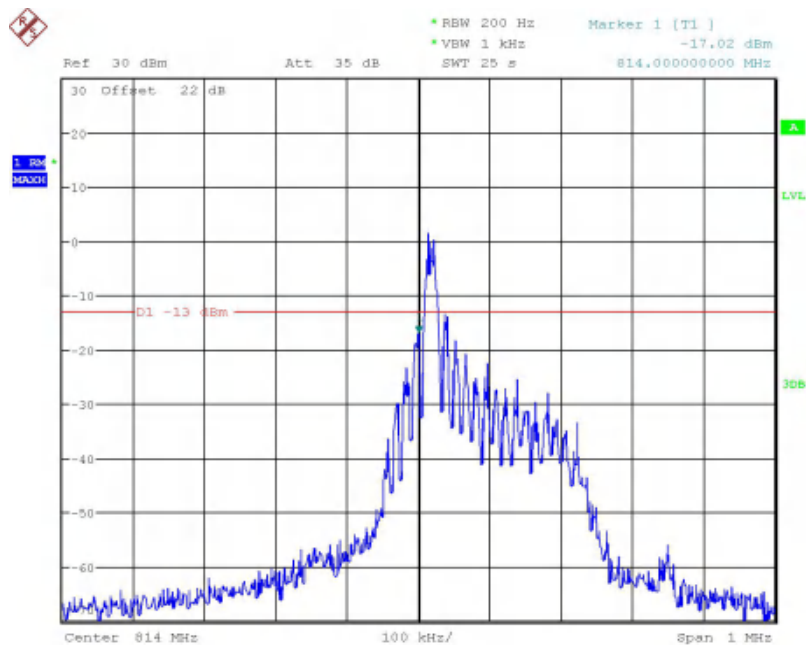
### Band17-Low Channel

### 5.5.7 NB-IoT Band26 Edge Results



Date: 5.AUG.2018 21:44:00

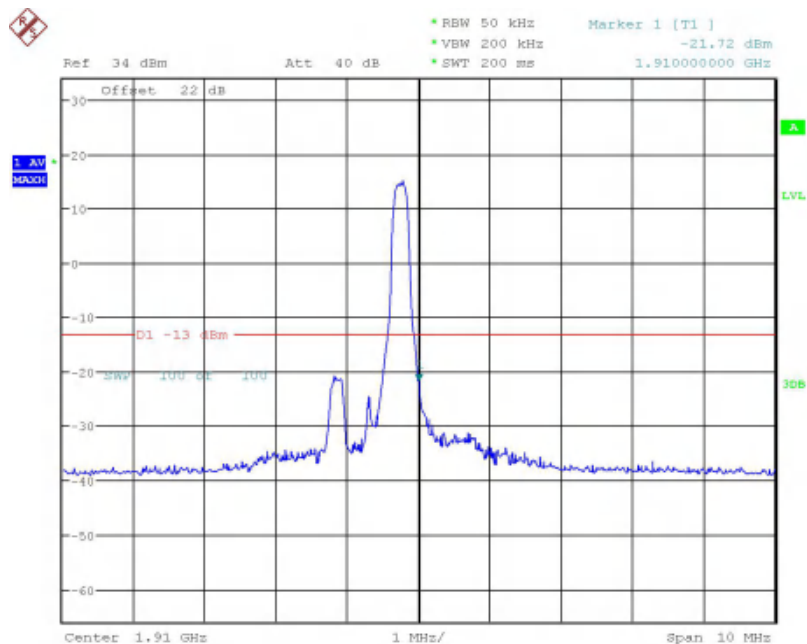
### Band26-High Channel



Date: 5.AUG.2018 21:36:50

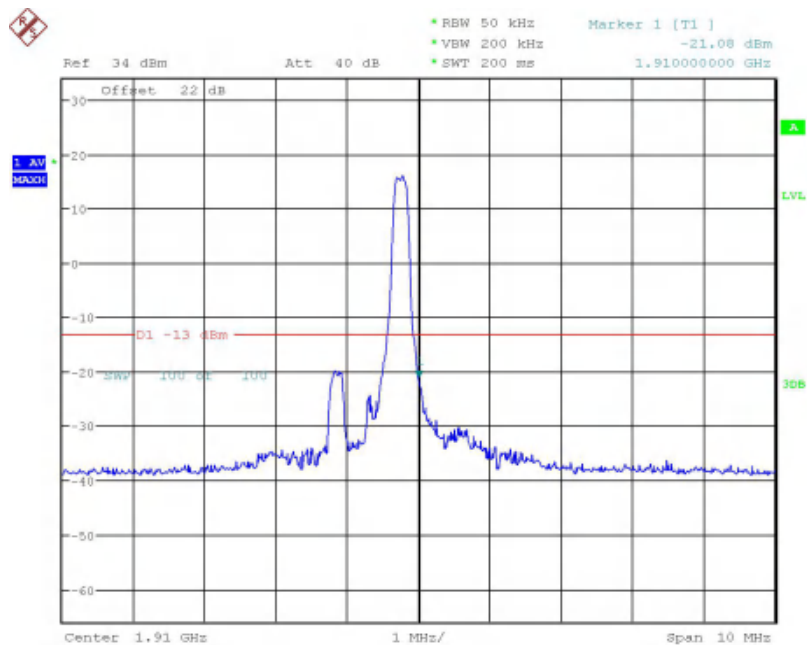
### Band26-Low Channel

### 5.5.8 CAT-M Band2 Edge Results



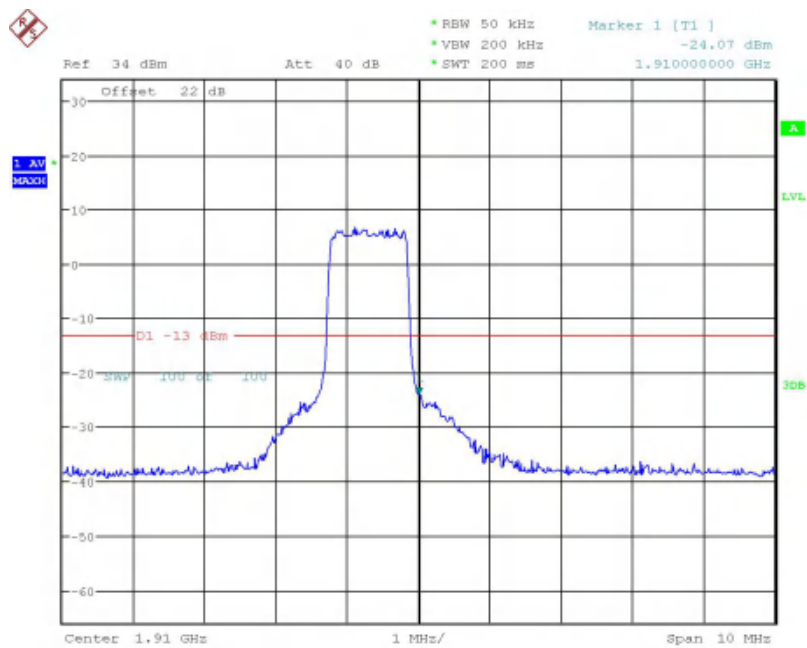
Date: 8.AUG.2018 14:38:25

### Band2-High Channel-1.4MHz Bandwidth-1RB-16QAM



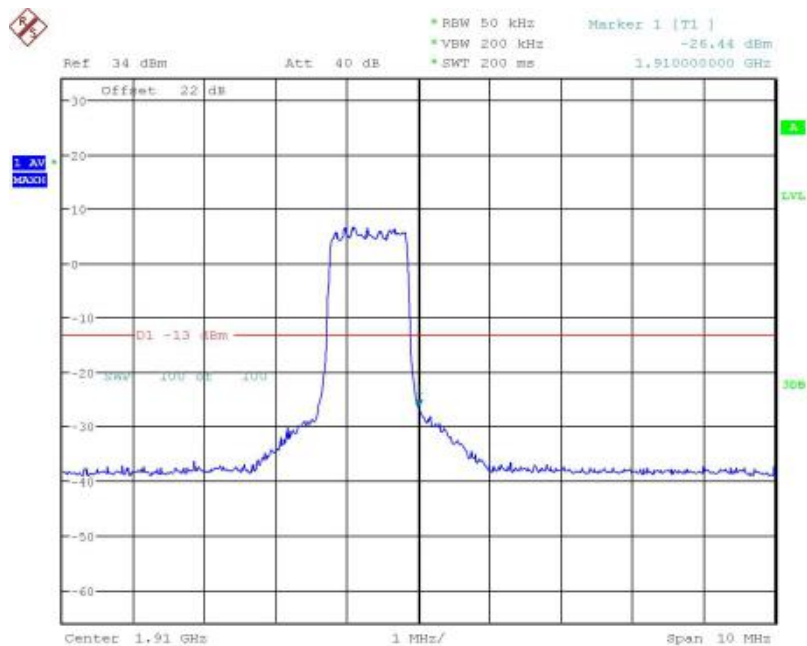
Date: 8.AUG.2018 14:37:41

### Band2-High Channel-1.4MHz Bandwidth-1RB-QPSK



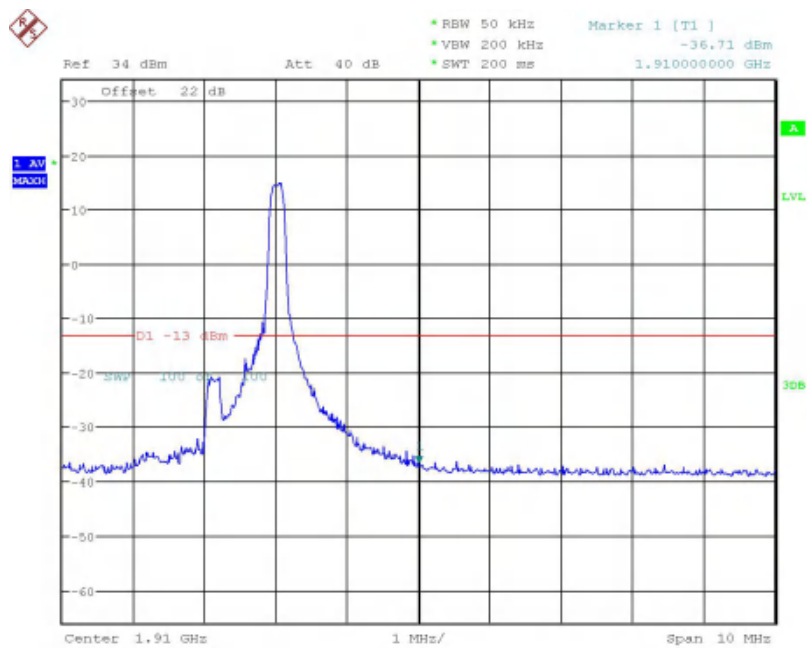
Date: 8.AUG.2018 14:38:54

Band2-High Channel-1.4MHz Bandwidth-6RB-16QAM



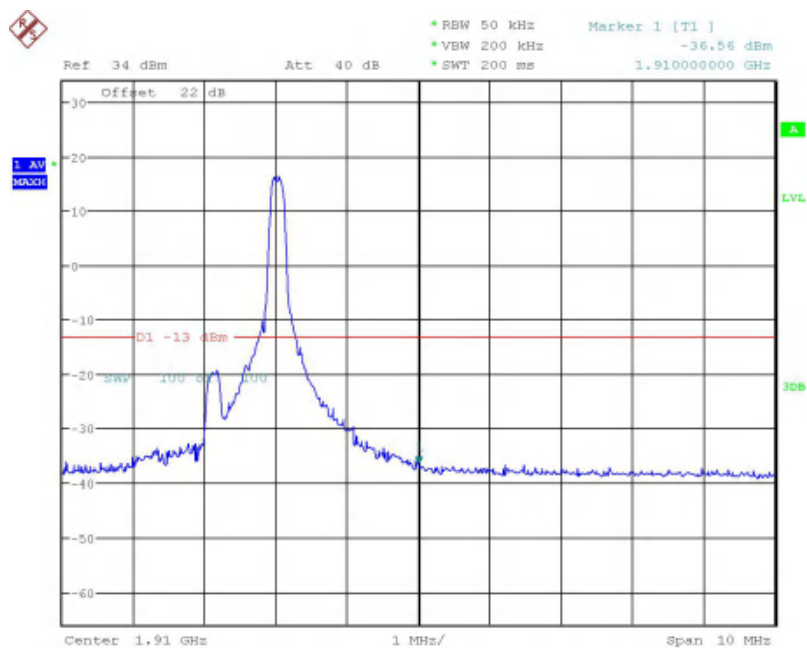
Date: 8.AUG.2018 14:37:08

Band2-High Channel-1.4MHz Bandwidth-6RB-QPSK



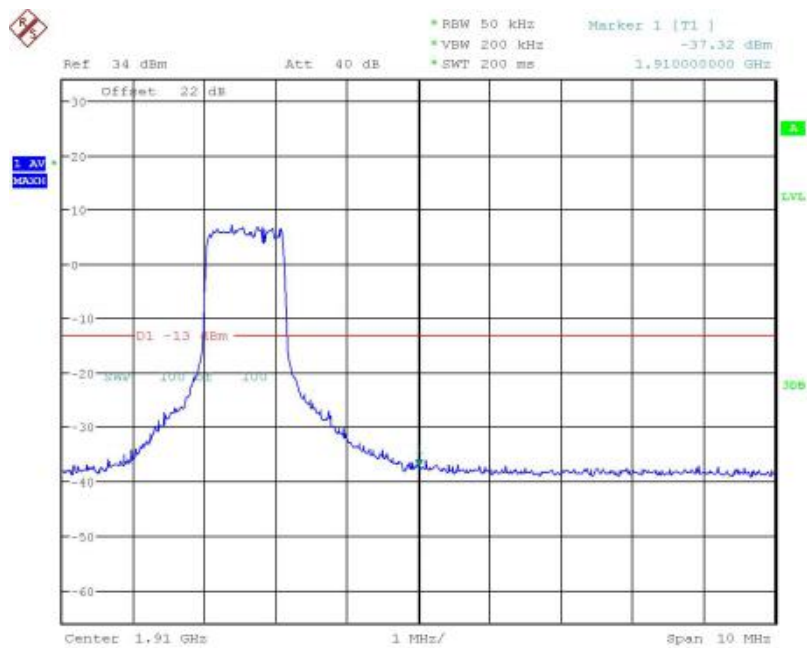
Date: 8.AUG.2018 14:33:49

Band2-High Channel-3MHz Bandwidth-1RB-16QAM



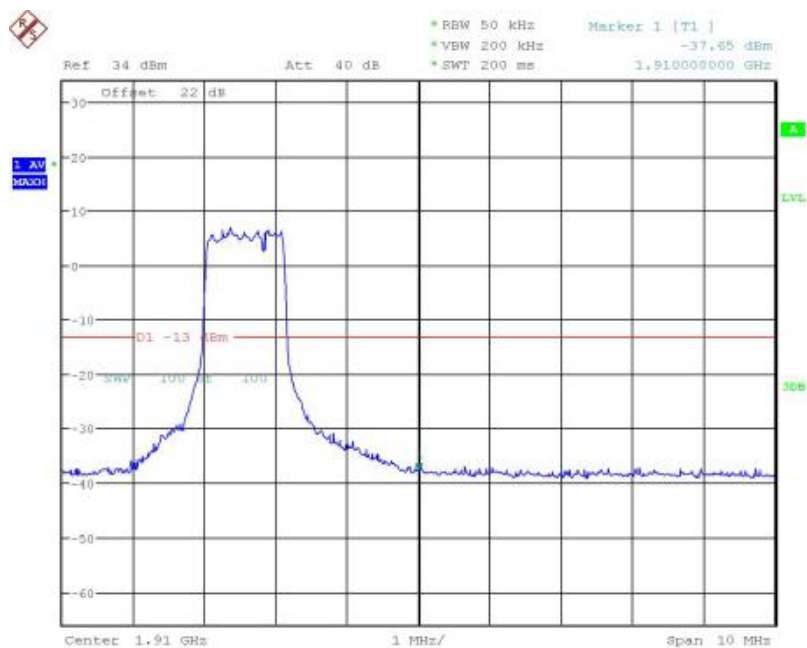
Date: 8.AUG.2018 14:34:22

Band2-High Channel-3MHz Bandwidth-1RB-QPSK



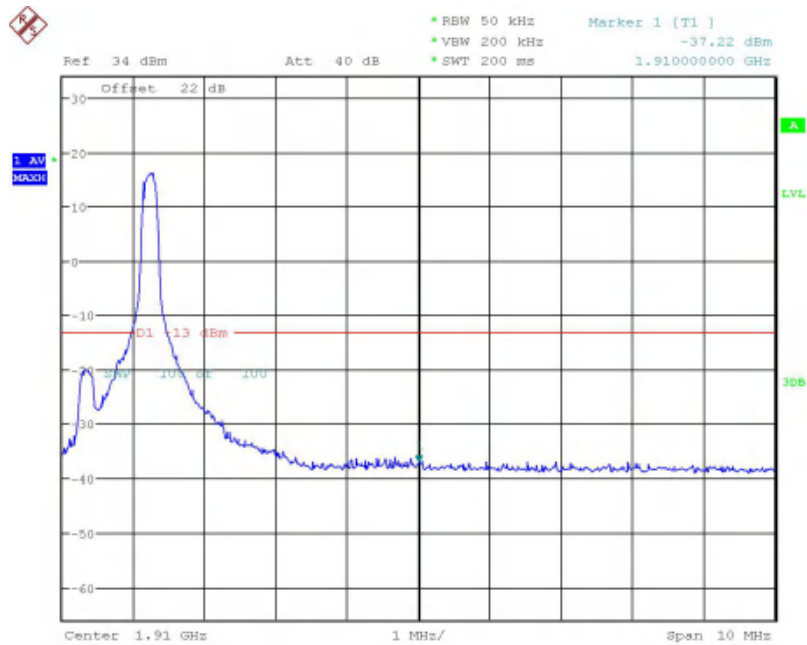
Date: 8.AUG.2018 14:33:16

Band2-High Channel-3MHz Bandwidth-6RB-16QAM



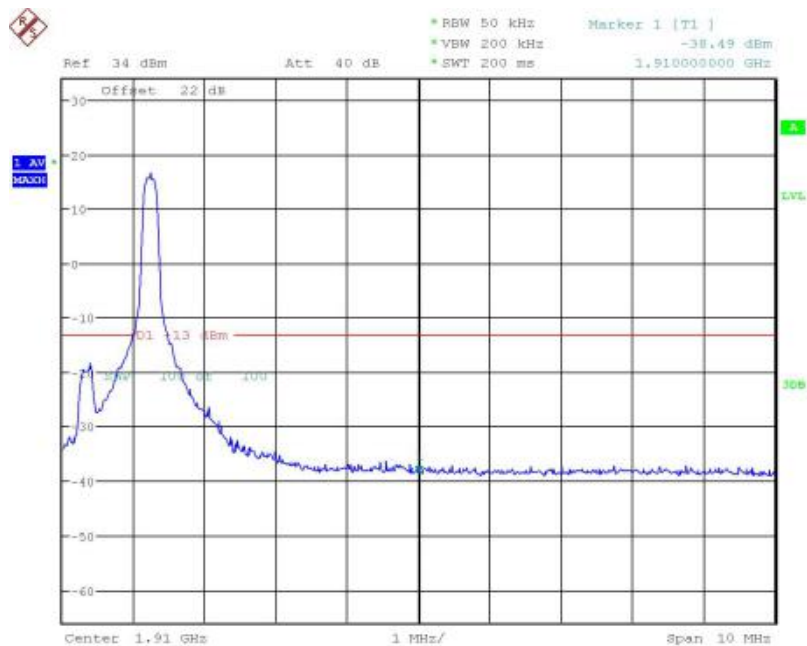
Date: 8.AUG.2018 14:34:53

Band2-High Channel-3MHz Bandwidth-6RB-QPSK



Date: 8.AUG.2018 14:31:38

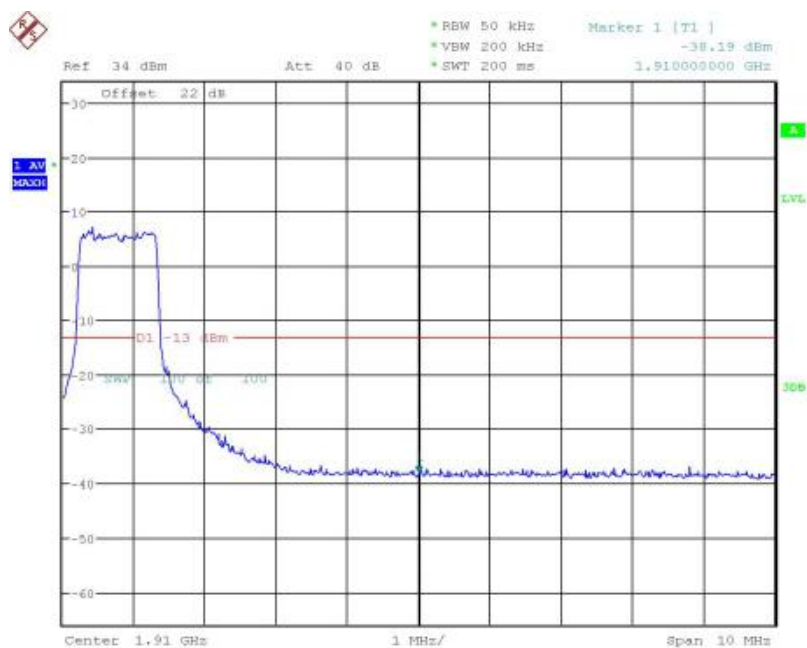
Band2-High Channel-5MHz Bandwidth-1RB-16QAM



Date: 8.AUG.2018 14:30:56

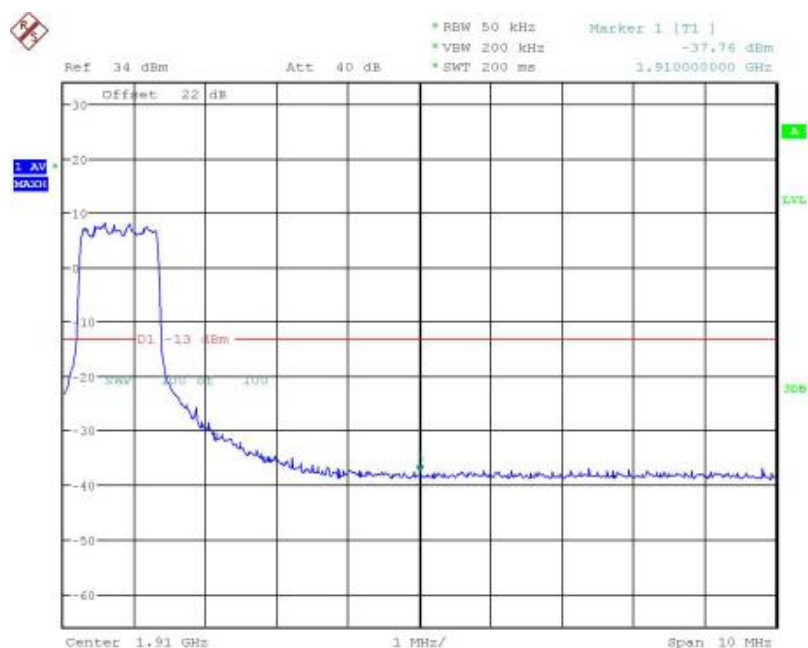
Band2-High Channel-5MHz Bandwidth-1RB-QPSK





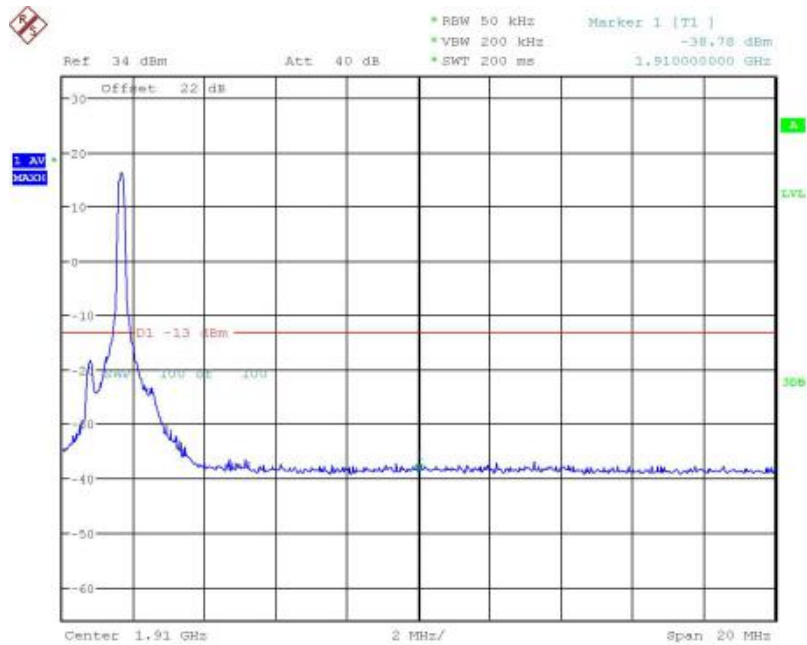
Date: 8.AUG.2018 14:32:09

### Band2-High Channel-5MHz Bandwidth-6RB-16QAM



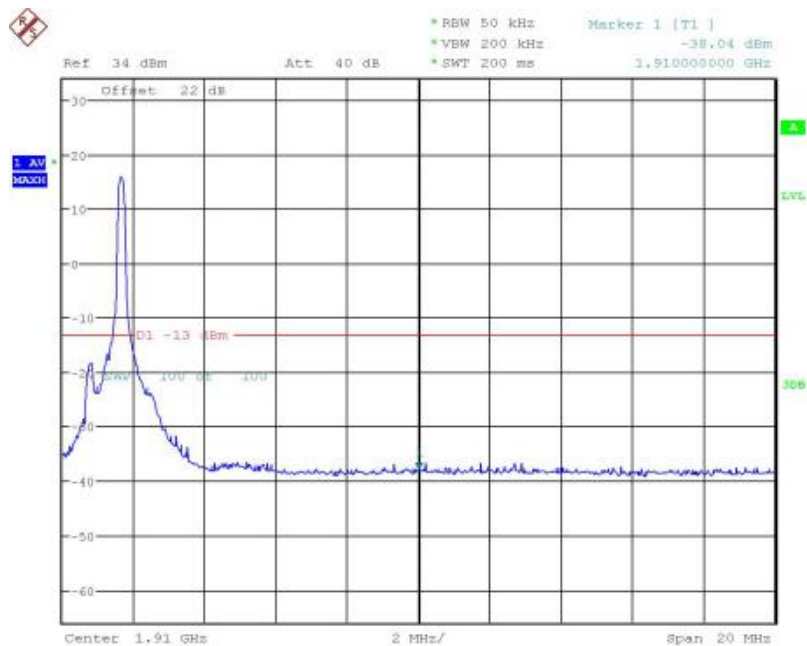
Date: 8.AUG.2018 14:30:22

### Band2-High Channel-5MHz Bandwidth-6RB-QPSK



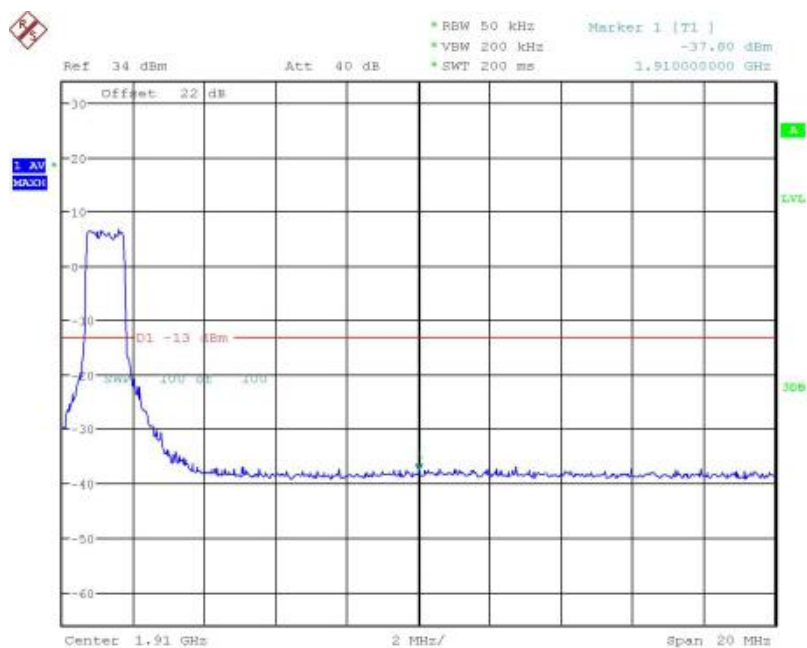
Date: 8.AUG.2018 14:27:04

Band2-High Channel-10MHz Bandwidth-1RB-16QAM



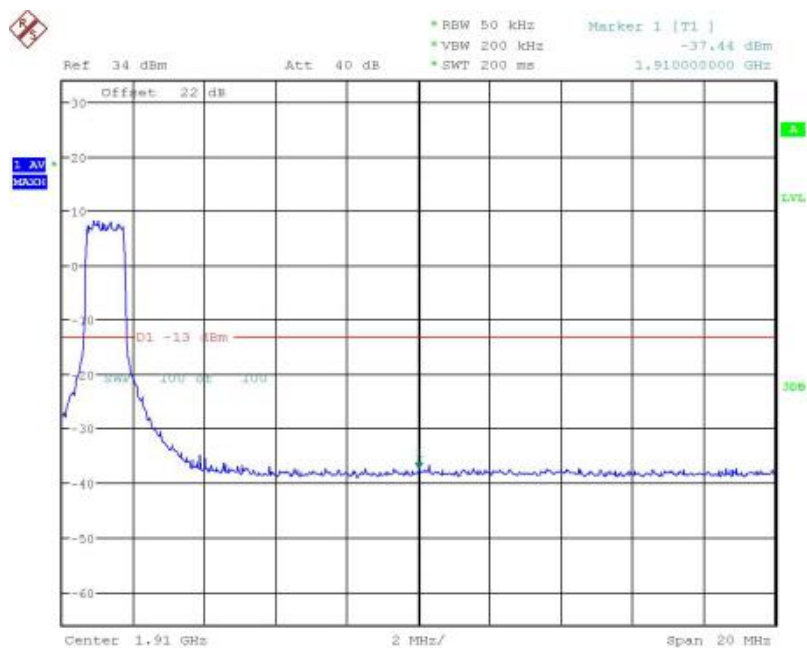
Date: 8.AUG.2018 14:27:53

Band2-High Channel-10MHz Bandwidth-1RB-QPSK



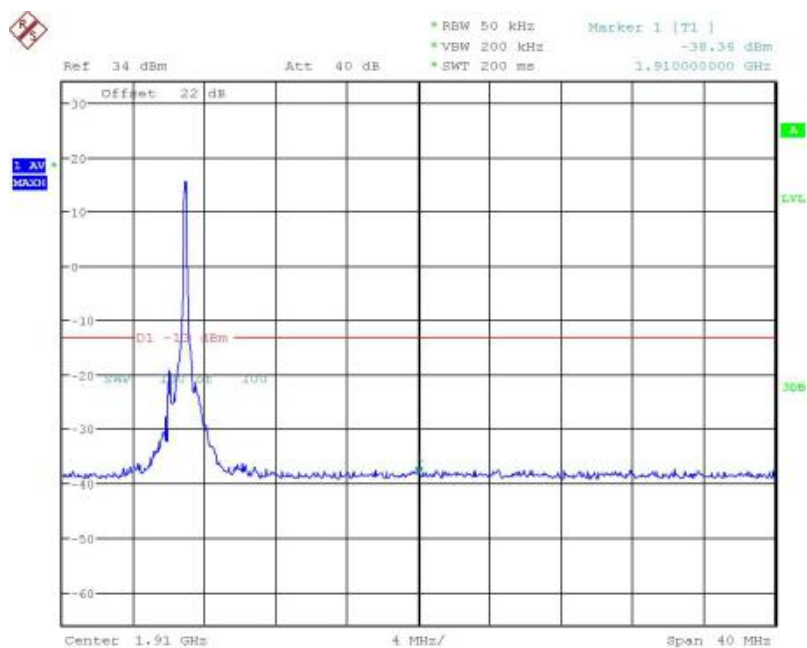
Date: 8.AUG.2018 14:26:31

### Band2-High Channel-10MHz Bandwidth-6RB-16QAM



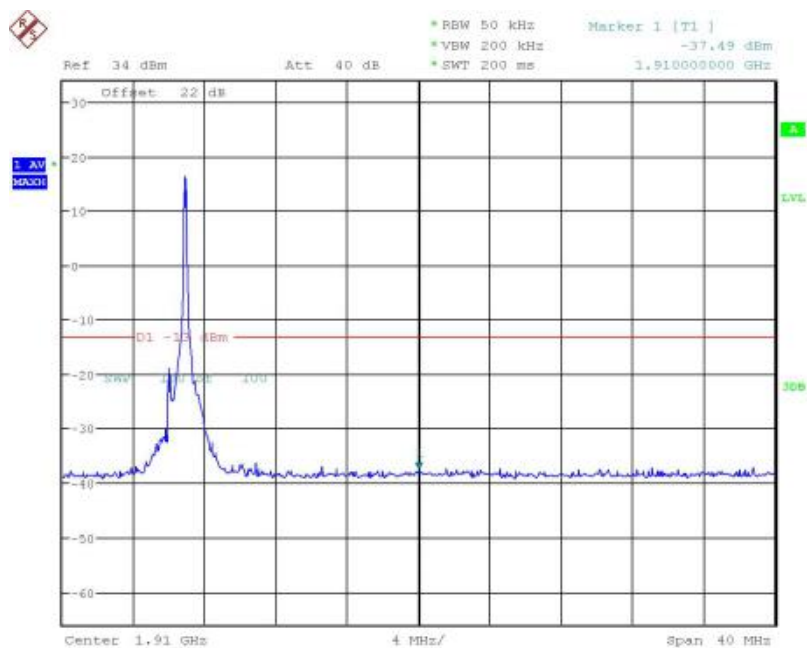
Date: 8.AUG.2018 14:29:00

### Band2-High Channel-10MHz Bandwidth-6RB-QPSK



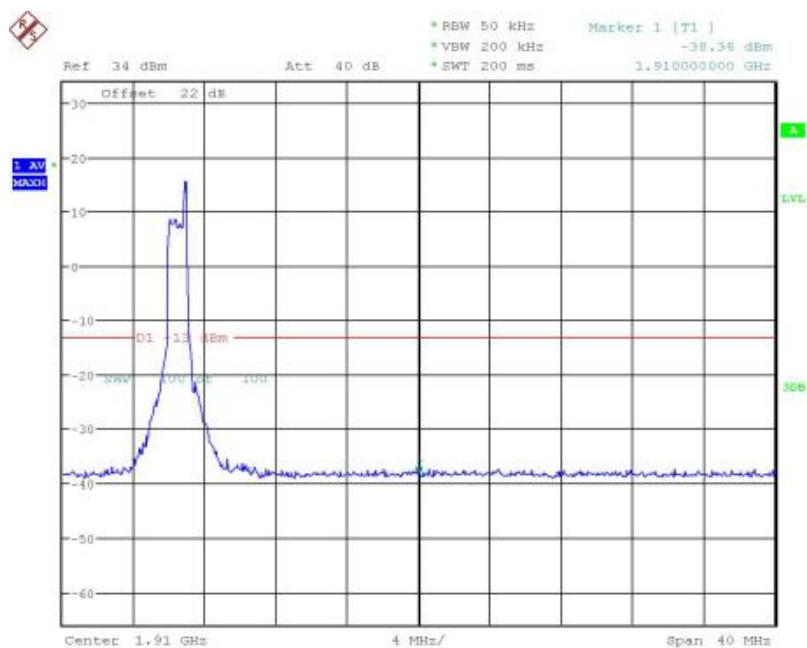
Date: 8.AUG.2018 14:23:58

Band2-High Channel-15MHz Bandwidth-1RB-16QAM



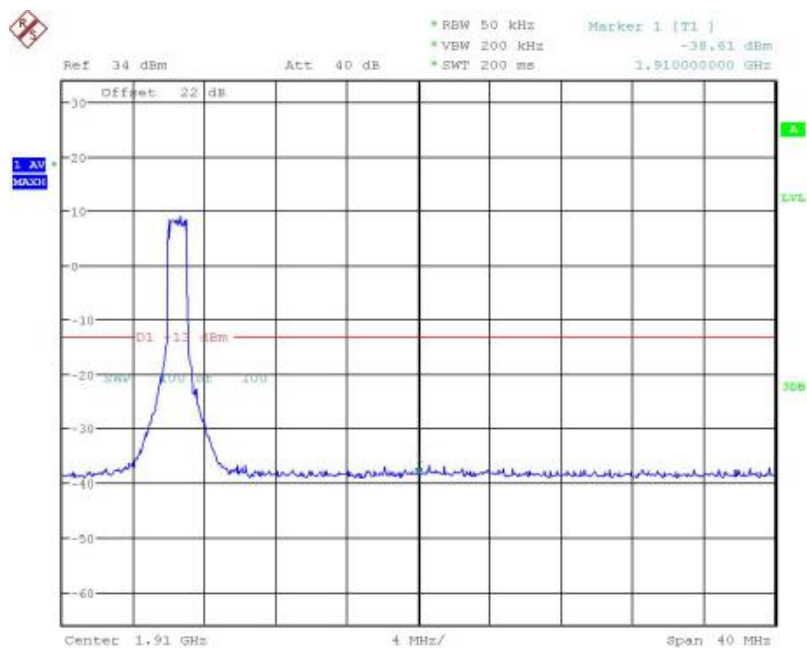
Date: 8.AUG.2018 14:23:23

Band2-High Channel-15MHz Bandwidth-1RB-QPSK



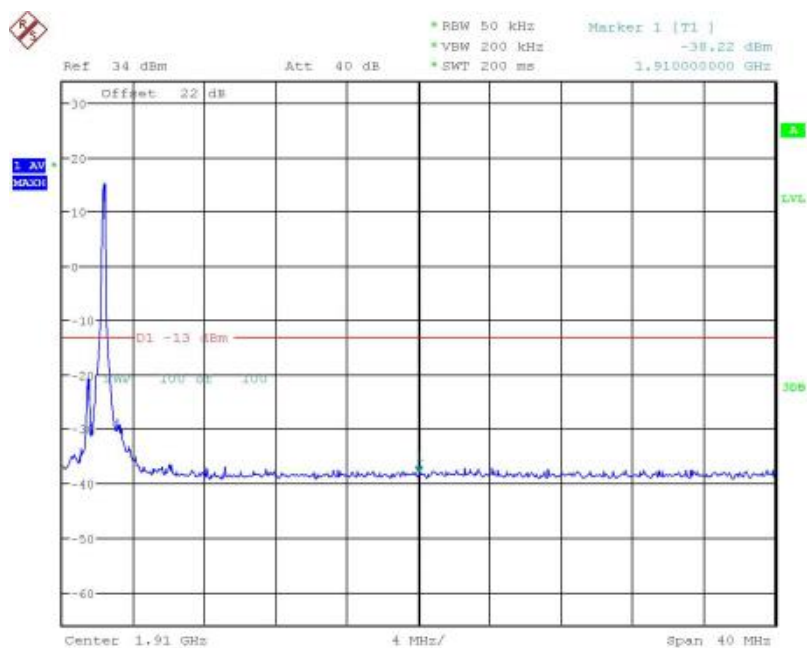
Date: 8.AUG.2018 14:24:21

### Band2-High Channel-15MHz Bandwidth-6RB-16QAM



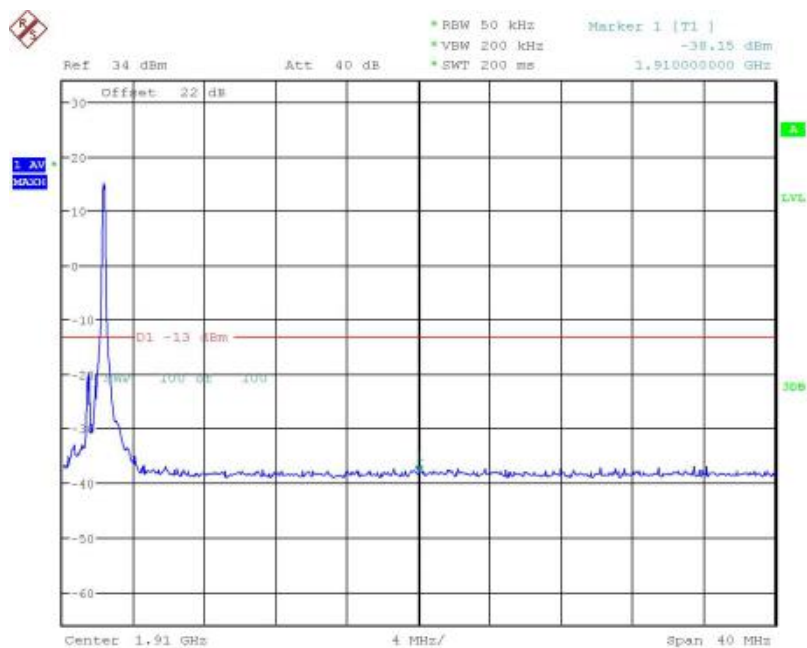
Date: 8.AUG.2018 14:22:45

### Band2-High Channel-15MHz Bandwidth-6RB-QPSK



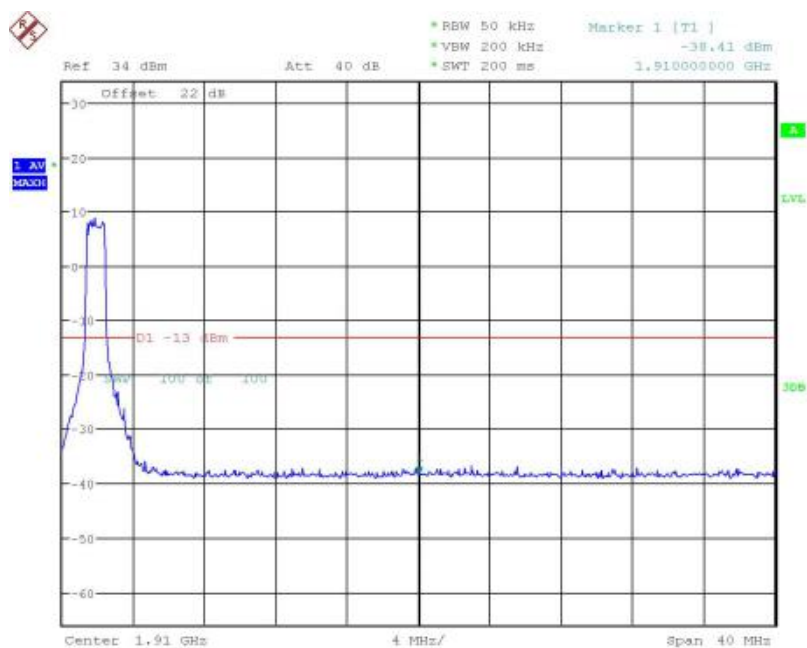
Date: 8.AUG.2018 14:19:20

### Band2-High Channel-20MHz Bandwidth-1RB-16QAM



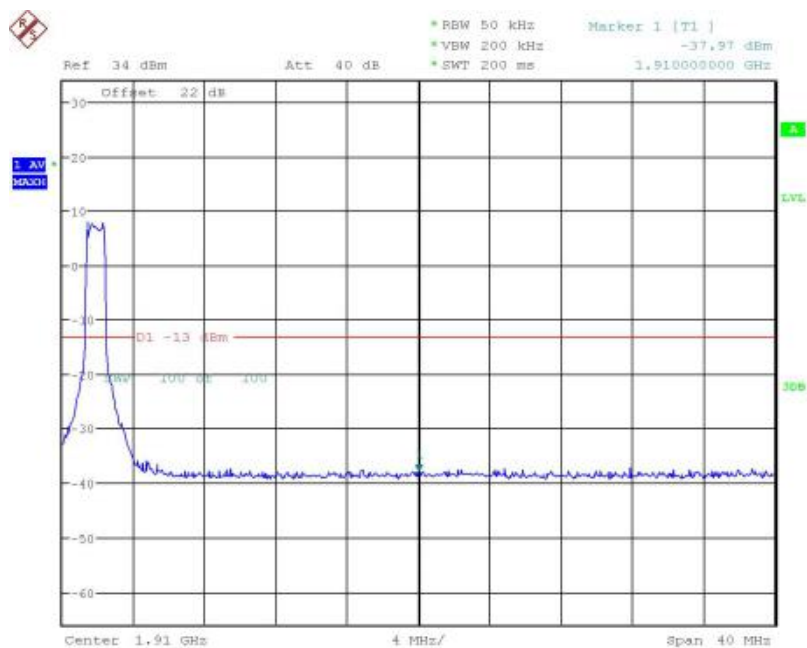
Date: 8.AUG.2018 14:20:12

### Band2-High Channel-20MHz Bandwidth-1RB-QPSK



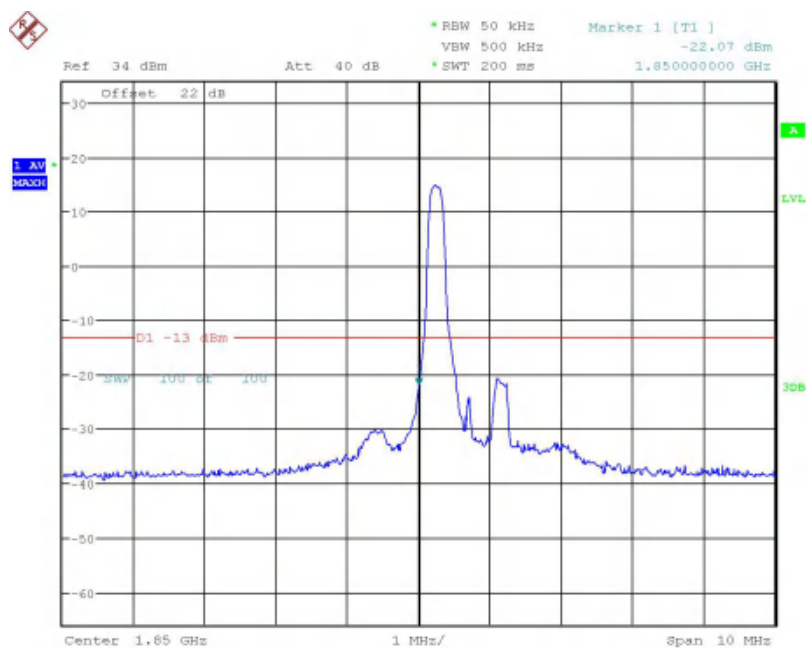
Date: 8.AUG.2018 14:18:31

### Band2-High Channel-20MHz Bandwidth-6RB-16QAM



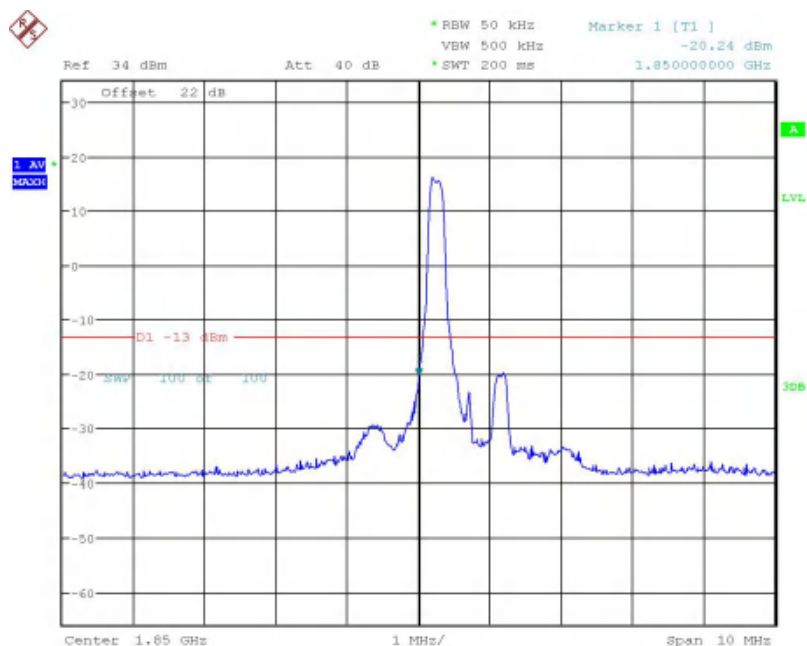
Date: 8.AUG.2018 14:20:46

### Band2-High Channel-20MHz Bandwidth-6RB-QPSK



Date: 8.AUG.2018 13:54:54

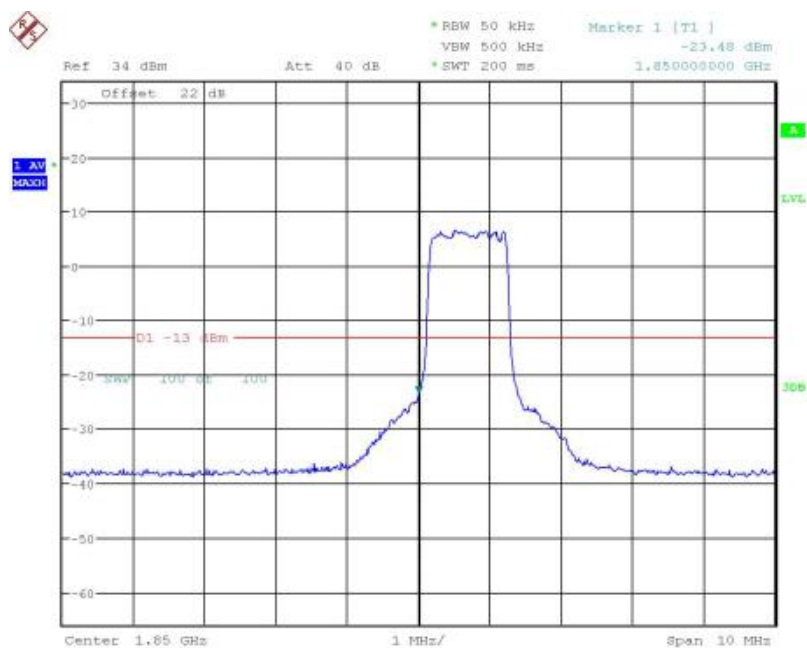
### Band2-Low Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 8.AUG.2018 13:56:00

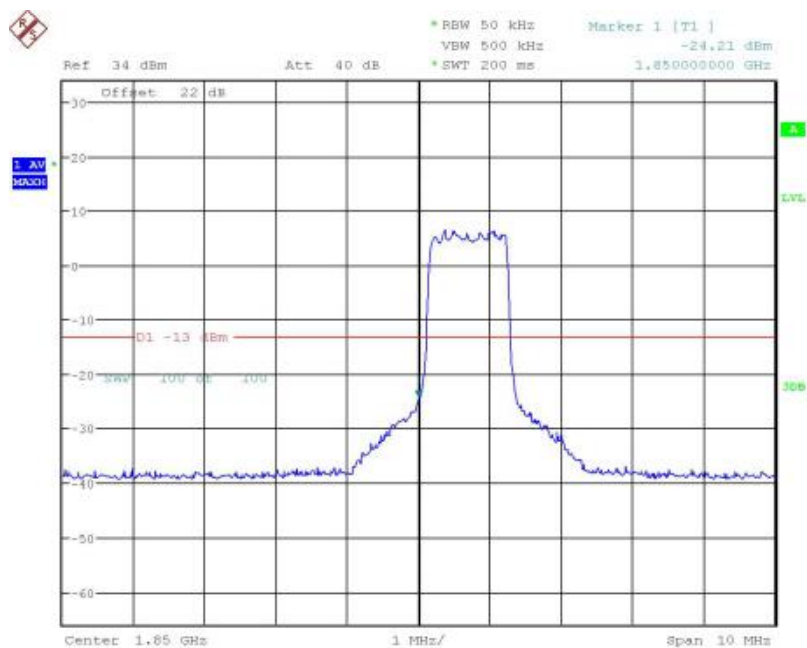
### Band2-Low Channel-1.4MHz Bandwidth-1RB-QPSK





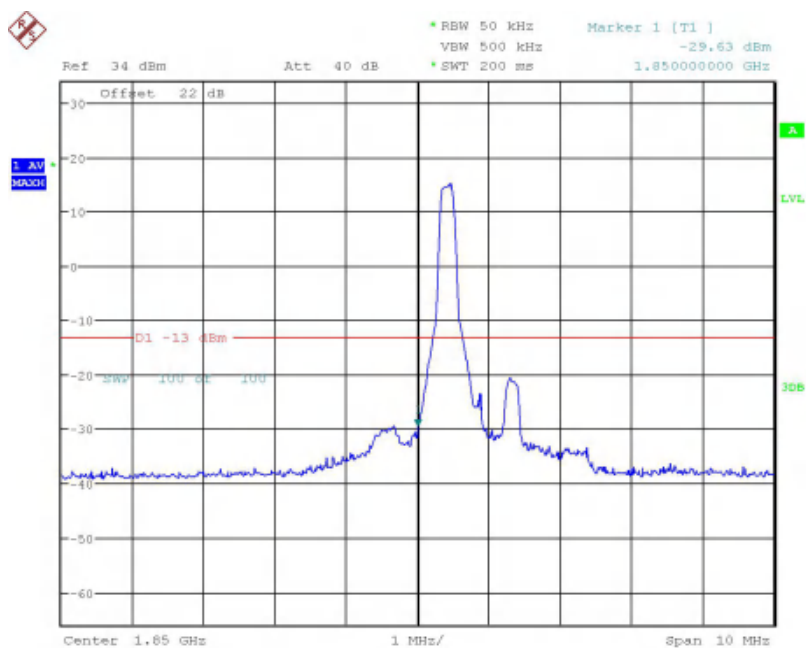
Date: 8.AUG.2018 13:53:43

### Band2-Low Channel-1.4MHz Bandwidth-6RB-16QAM



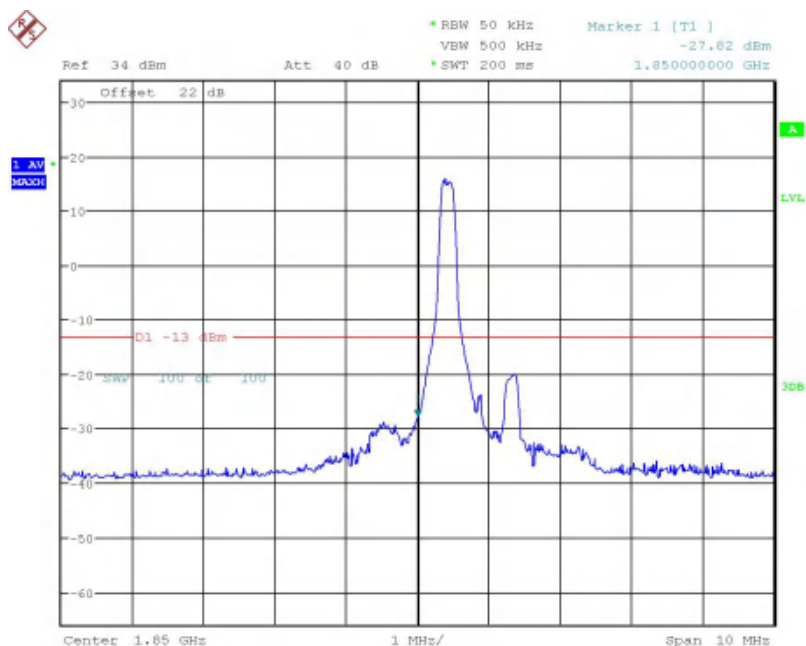
Date: 8.AUG.2018 13:56:35

### Band2-Low Channel-1.4MHz Bandwidth-6RB-QPSK



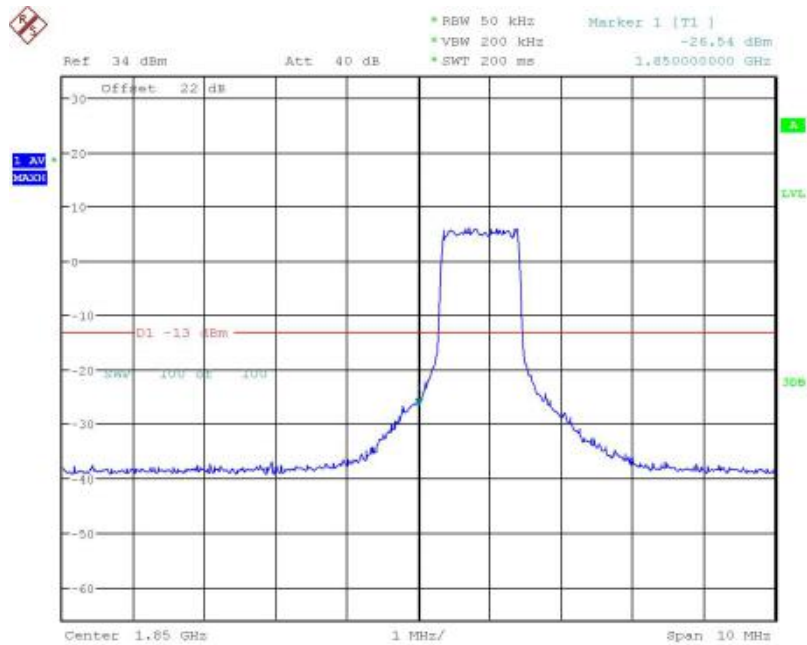
Date: 8.AUG.2018 14:01:00

### Band2-Low Channel-3MHz Bandwidth-1RB-16QAM



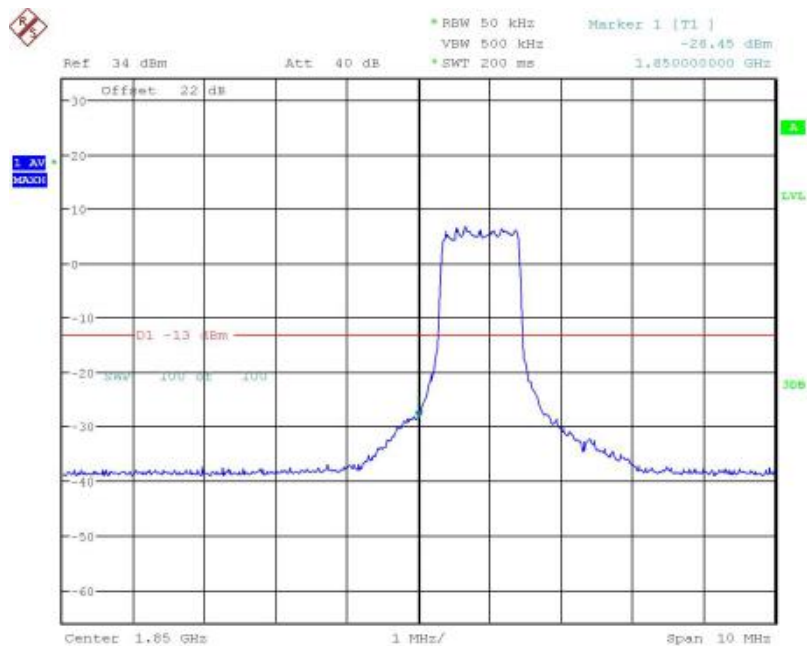
Date: 8.AUG.2018 14:00:17

### Band2-Low Channel-3MHz Bandwidth-1RB-QPSK



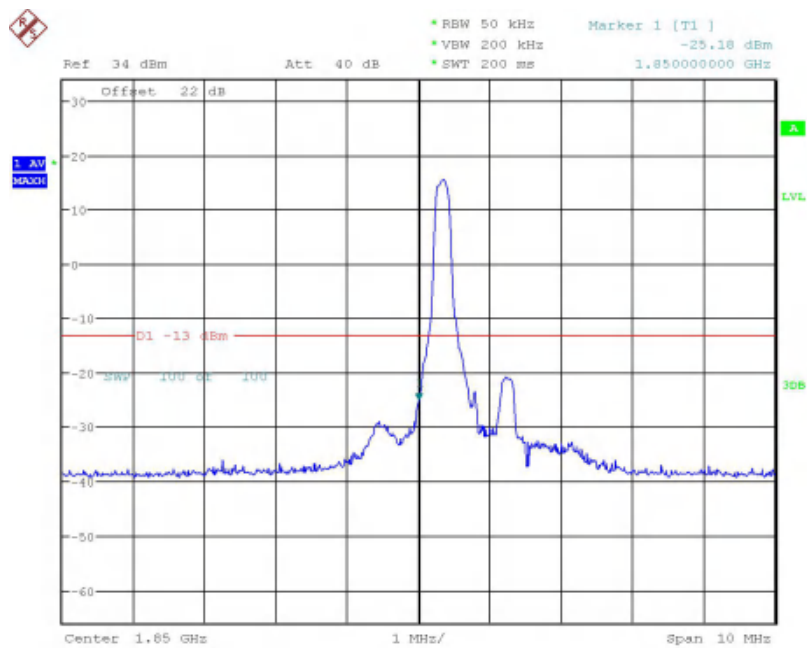
Date: 8.AUG.2018 14:01:35

Band2-Low Channel-3MHz Bandwidth-6RB-16QAM



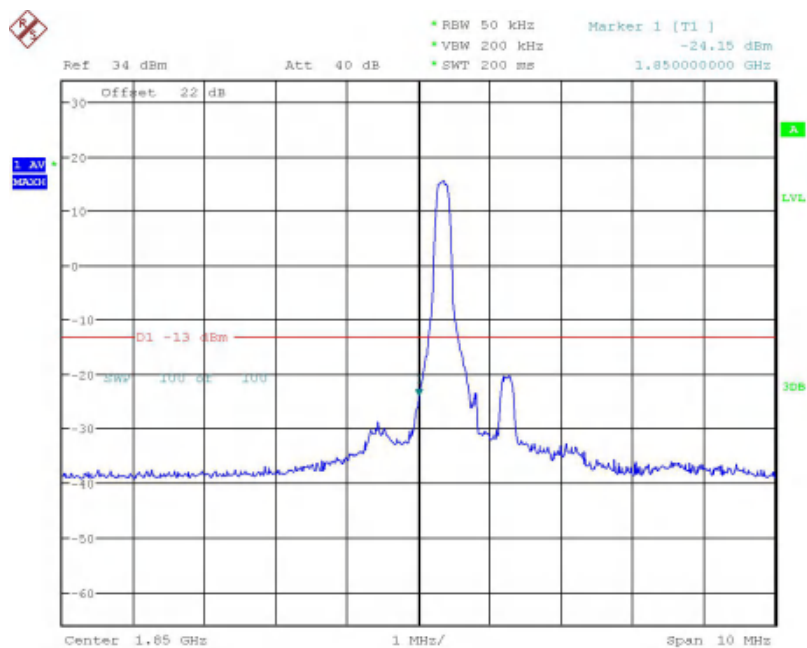
Date: 8.AUG.2018 13:59:38

Band2-Low Channel-3MHz Bandwidth-6RB-QPSK



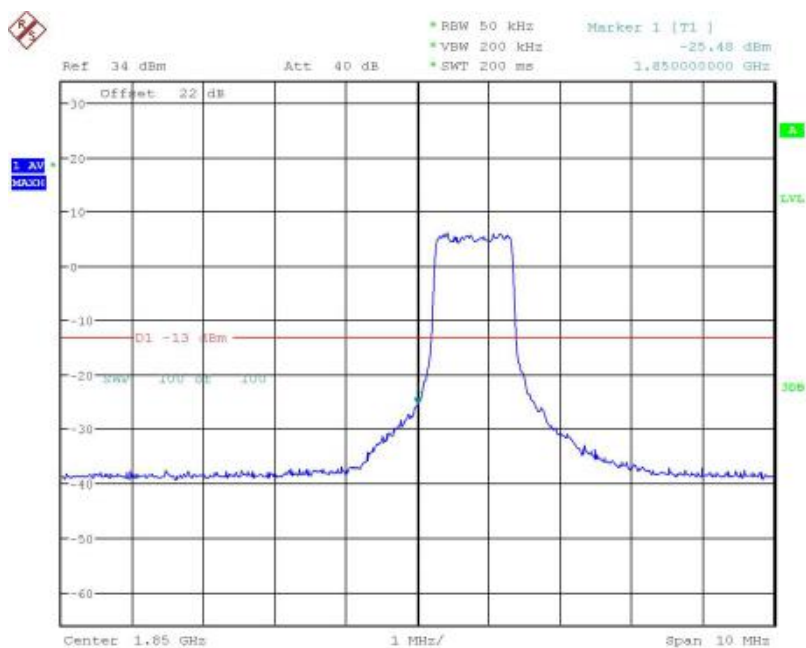
Date: 8.AUG.2018 14:03:47

Band2-Low Channel-5MHz Bandwidth-1RB-16QAM



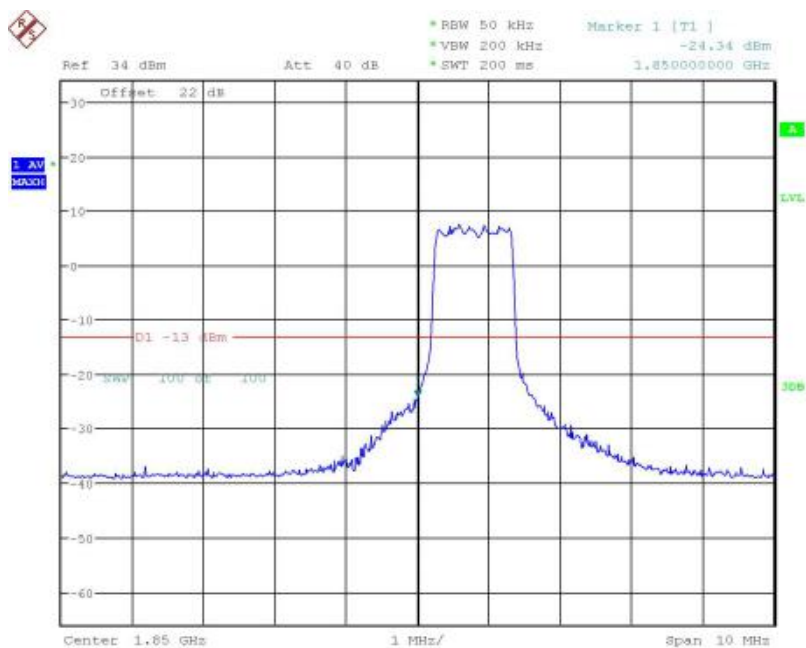
Date: 8.AUG.2018 14:04:28

Band2-Low Channel-5MHz Bandwidth-1RB-QPSK



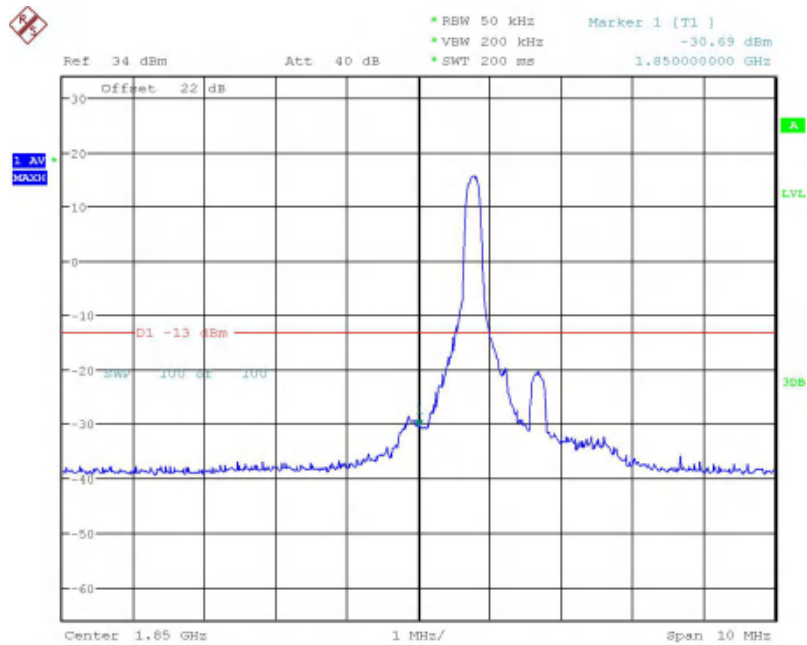
Date: 8.AUG.2018 14:03:16

Band2-Low Channel-5MHz Bandwidth-6RB-16QAM



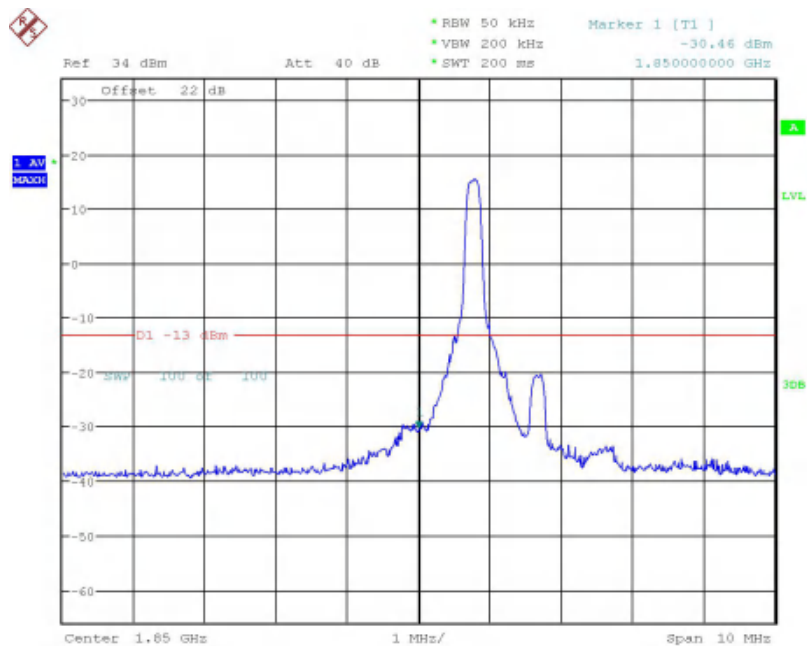
Date: 8.AUG.2018 14:05:05

Band2-Low Channel-5MHz Bandwidth-6RB-QPSK



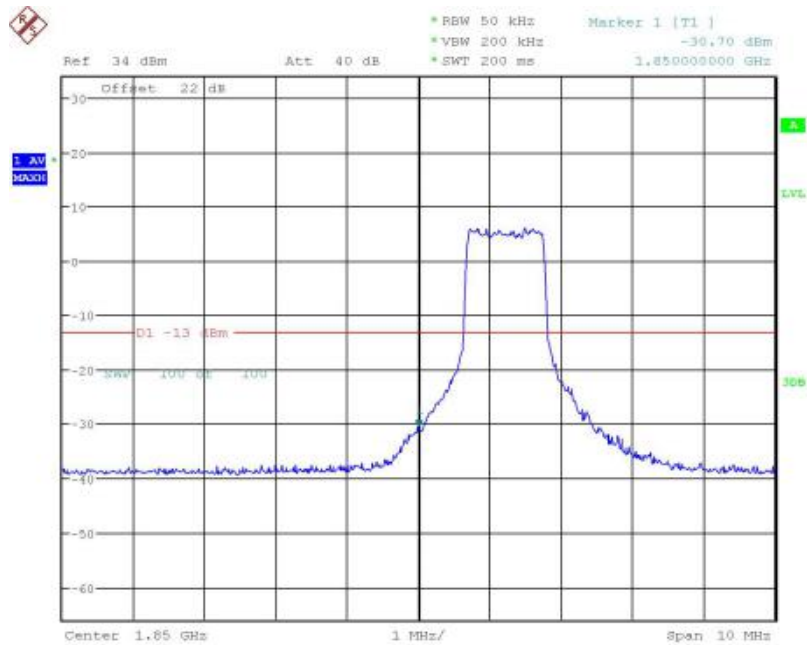
Date: 8.AUG.2018 14:07:15

Band2-Low Channel-10MHz Bandwidth-1RB-16QAM



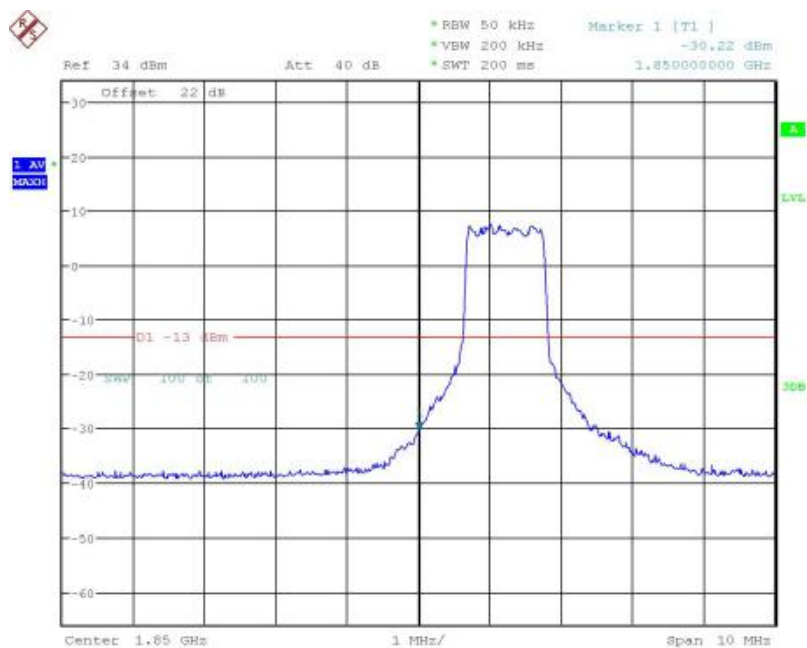
Date: 8.AUG.2018 14:06:42

Band2-Low Channel-10MHz Bandwidth-1RB-QPSK



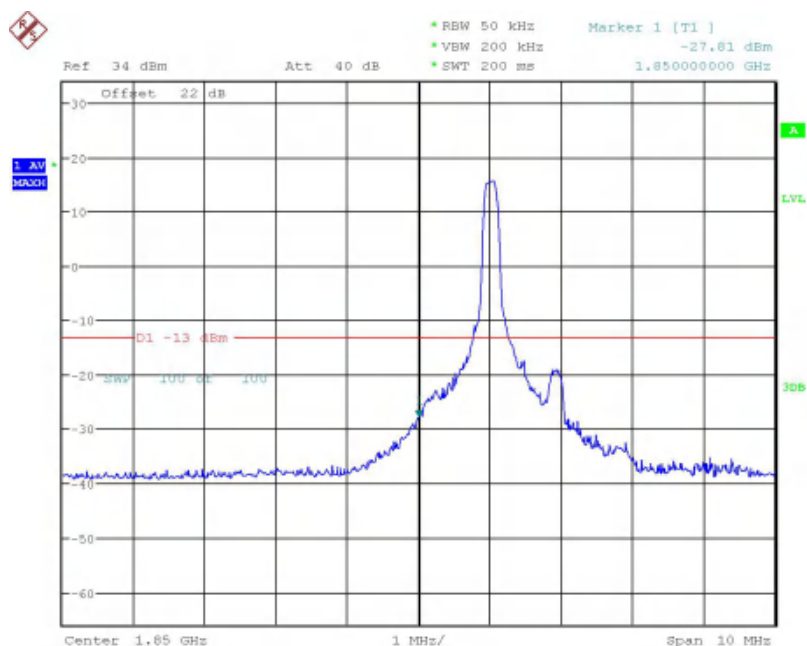
Date: 8.AUG.2018 14:07:42

Band2-Low Channel-10MHz Bandwidth-6RB-16QAM



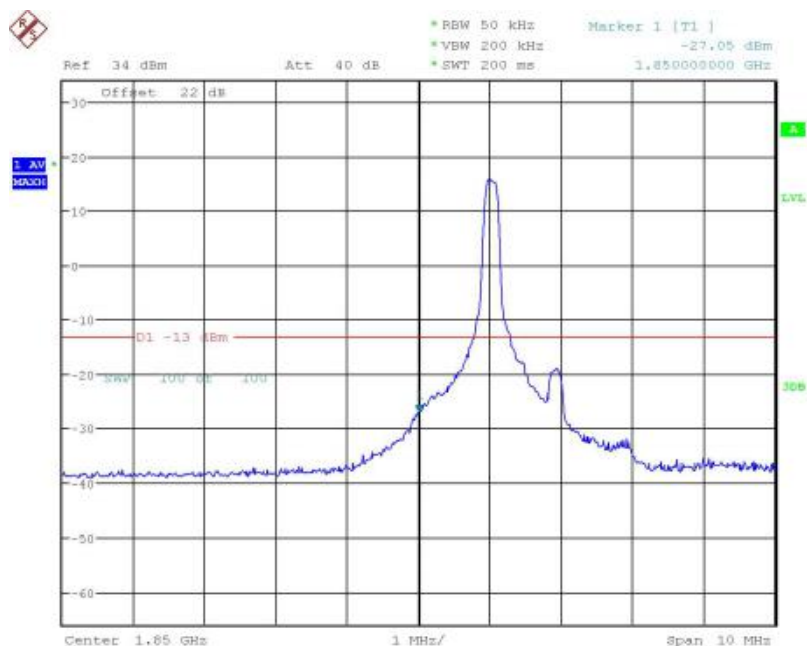
Date: 8.AUG.2018 14:06:17

Band2-Low Channel-10MHz Bandwidth-6RB-QPSK



Date: 8.AUG.2018 14:09:33

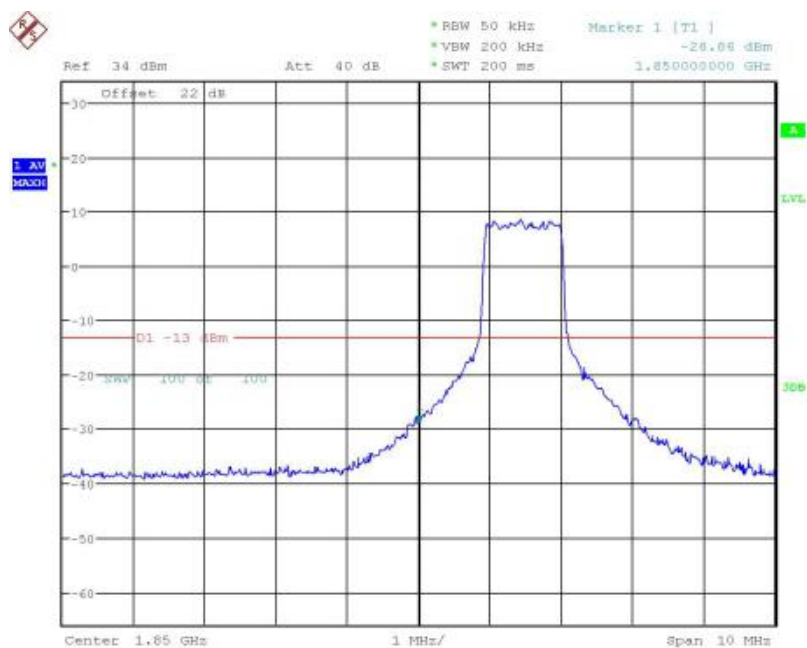
Band2-Low Channel-15MHz Bandwidth-1RB-16QAM



Date: 8.AUG.2018 14:10:44

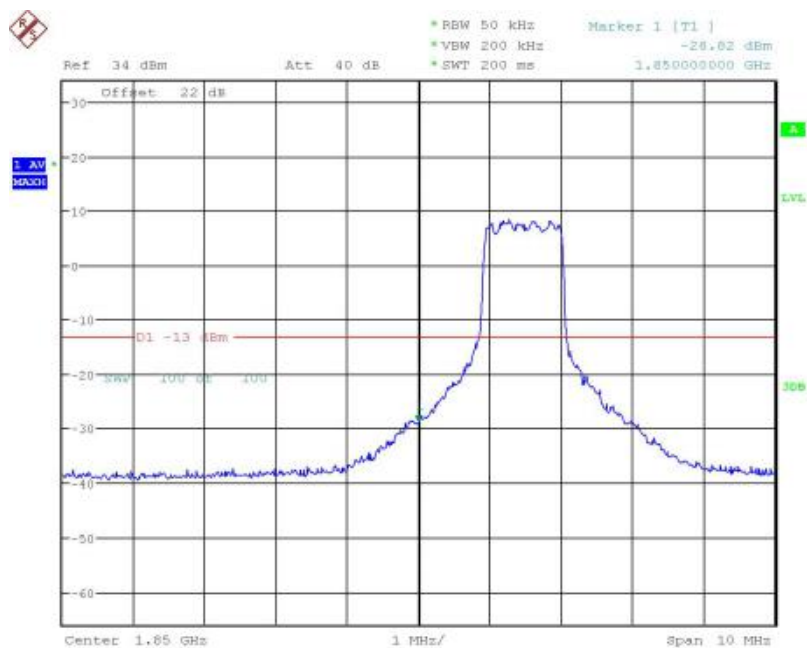
Band2-Low Channel-15MHz Bandwidth-1RB-QPSK





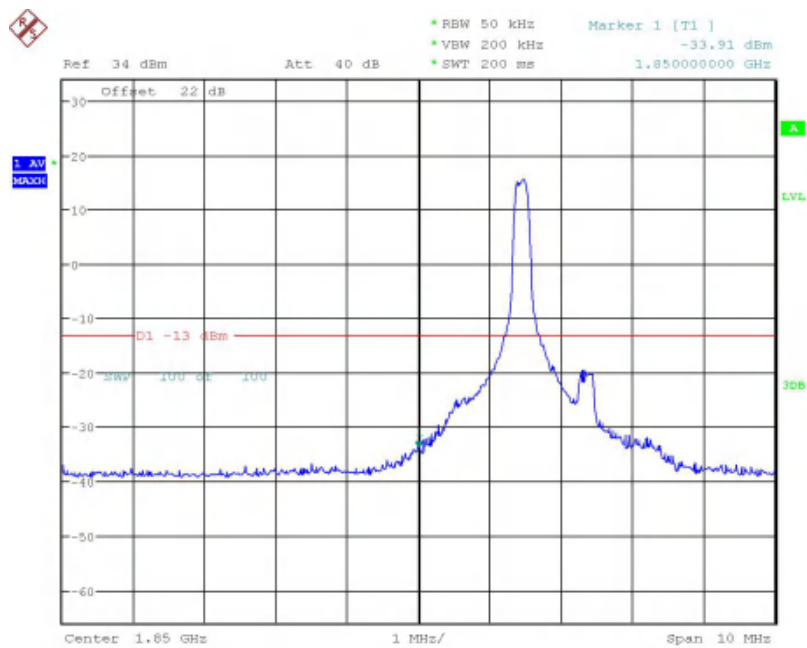
Date: 8.AUG.2018 14:09:01

### Band2-Low Channel-15MHz Bandwidth-6RB-16QAM



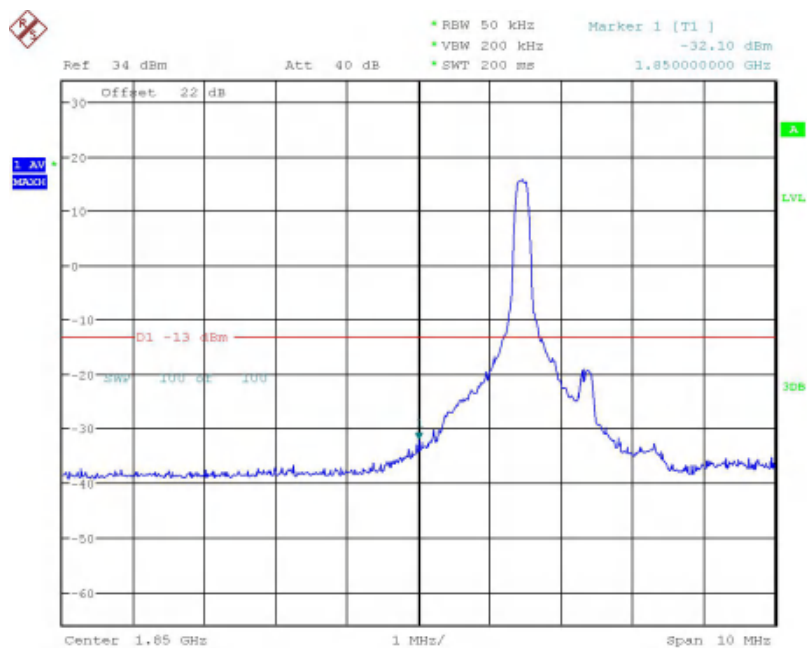
Date: 8.AUG.2018 14:11:20

### Band2-Low Channel-15MHz Bandwidth-6RB-QPSK



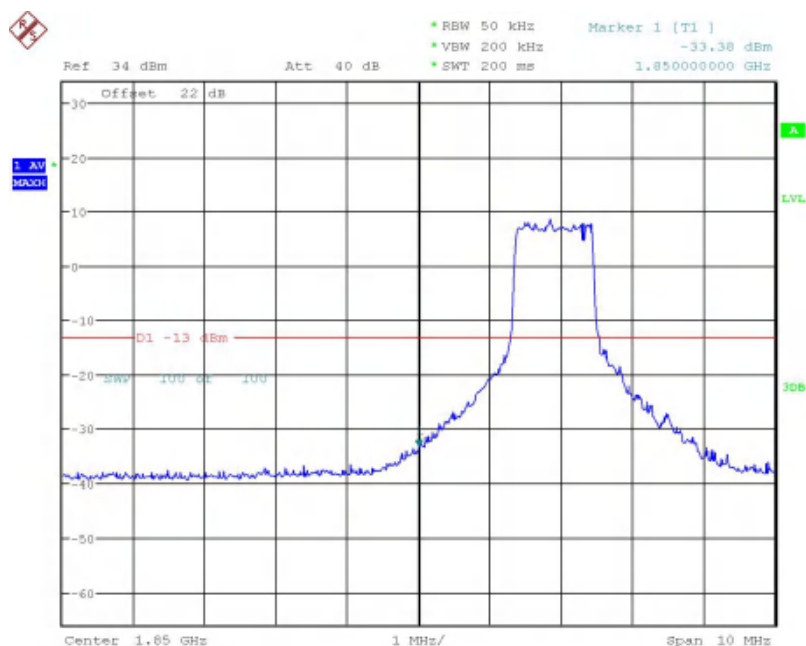
Date: 8.AUG.2018 14:14:22

Band2-Low Channel-20MHz Bandwidth-1RB-16QAM



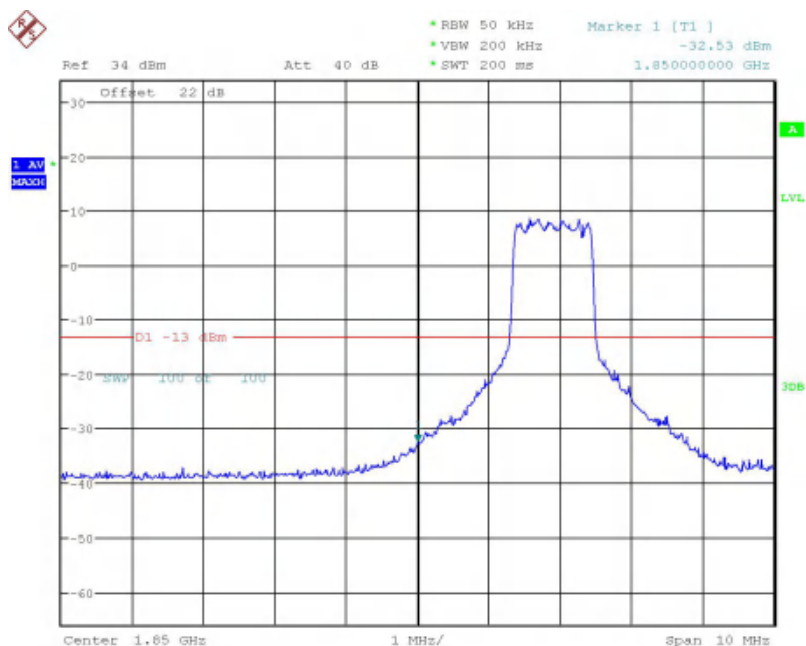
Date: 8.AUG.2018 14:13:31

Band2-Low Channel-20MHz Bandwidth-1RB-QPSK



Date: 8.AUG.2018 14:14:53

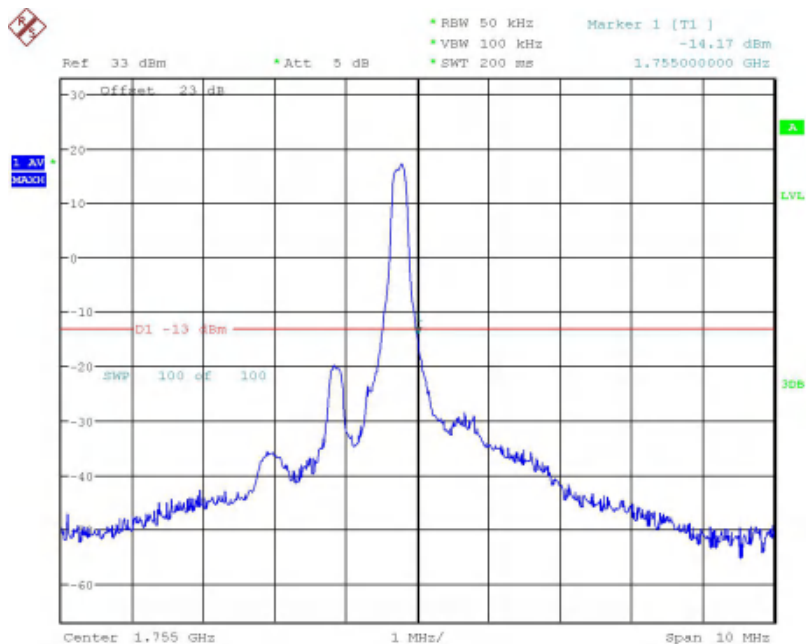
Band2-Low Channel-20MHz Bandwidth-6RB-16QAM



Date: 8.AUG.2018 14:12:51

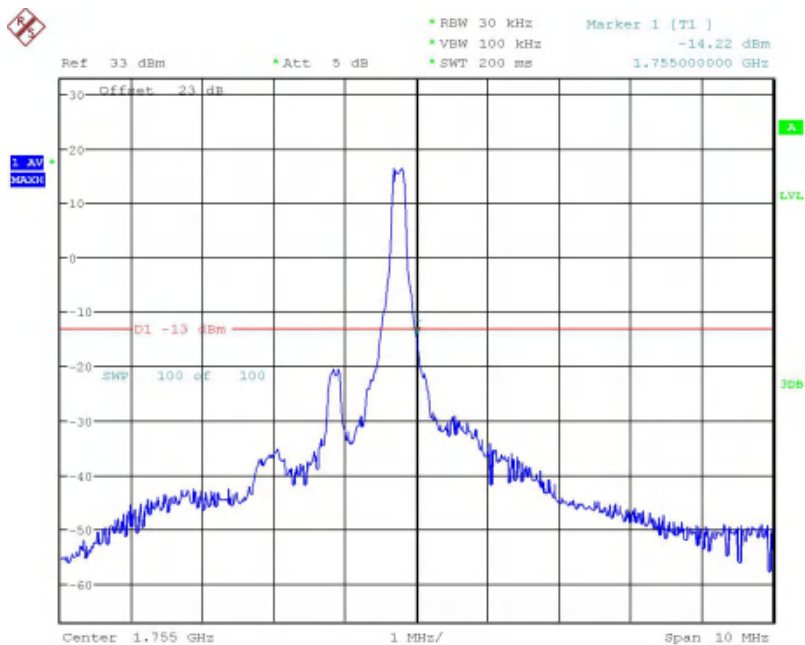
Band2-Low Channel-20MHz Bandwidth-6RB-QPSK

5.5.9 CAT-M Band4 Edge Results



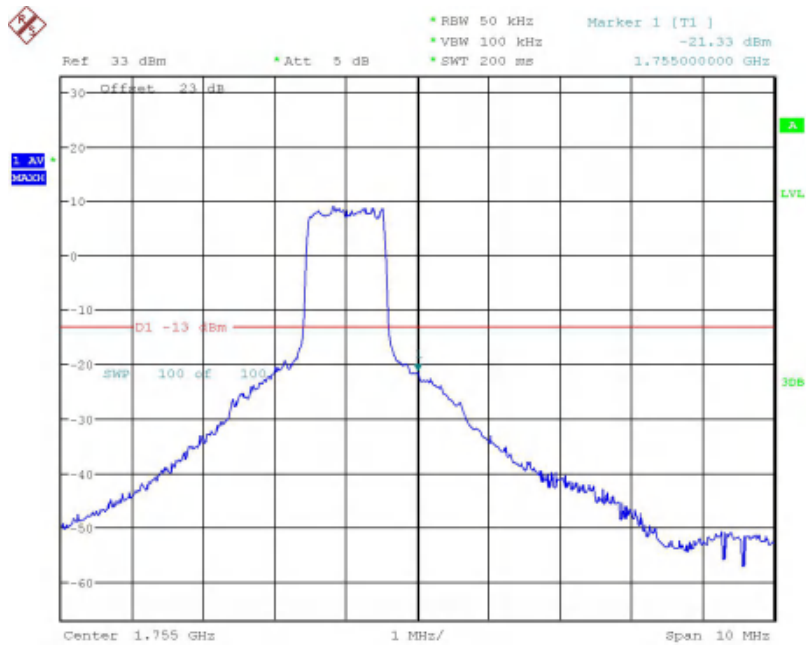
Date: 7.AUG.2018 10:45:32

Band4-High Channel-1.4MHz Bandwidth-1RB-16QAM



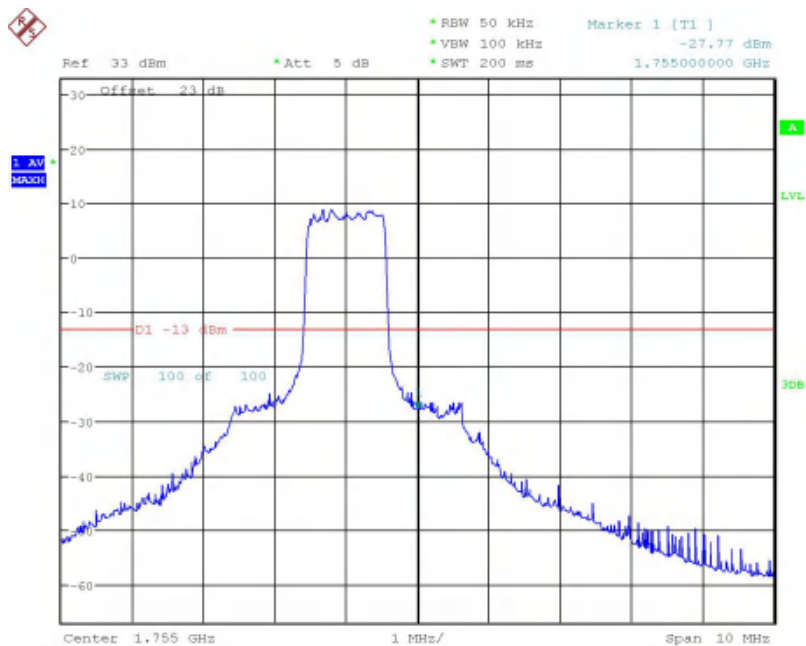
Date: 7.AUG.2018 10:46:56

Band4-High Channel-1.4MHz Bandwidth-1RB-QPSK



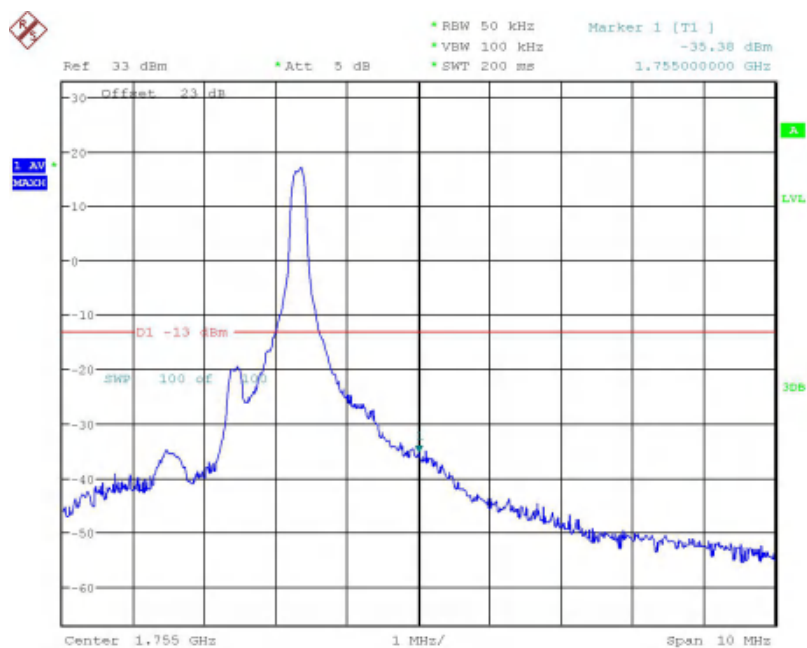
Date: 7.AUG.2018 10:34:48

Band4-High Channel-1.4MHz Bandwidth-6RB-16QAM



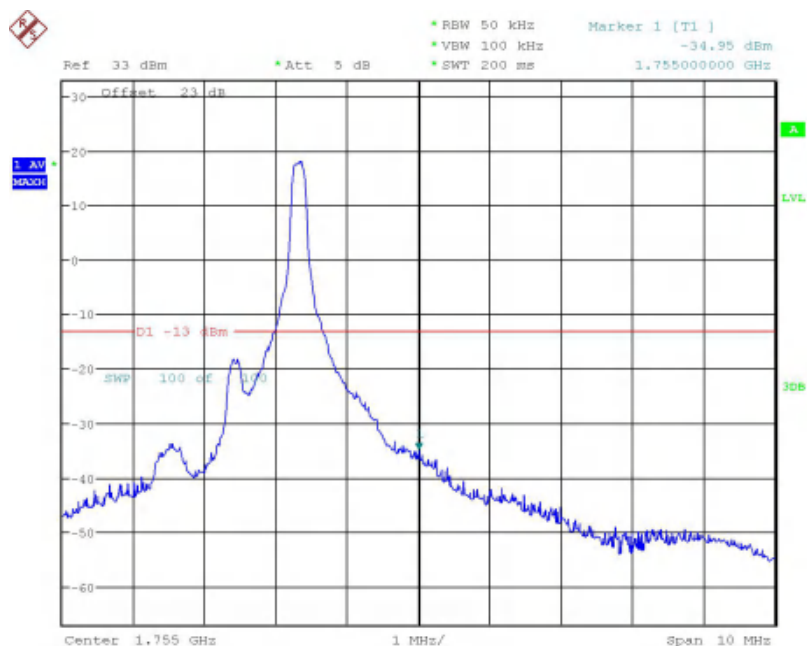
Date: 7.AUG.2018 10:37:09

Band4-High Channel-1.4MHz Bandwidth-6RB-QPSK



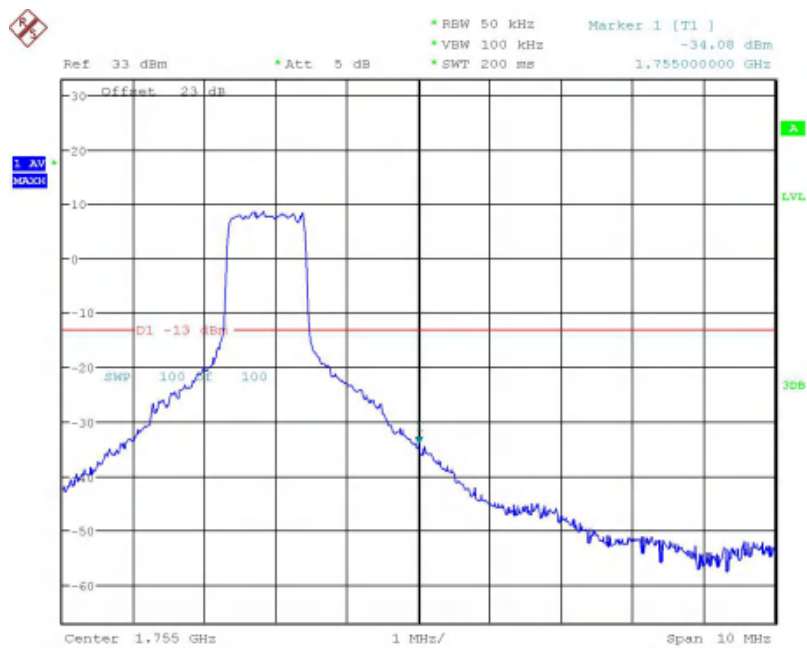
Date: 7.AUG.2018 10:41:33

Band4-High Channel-3MHz Bandwidth-1RB-16QAM



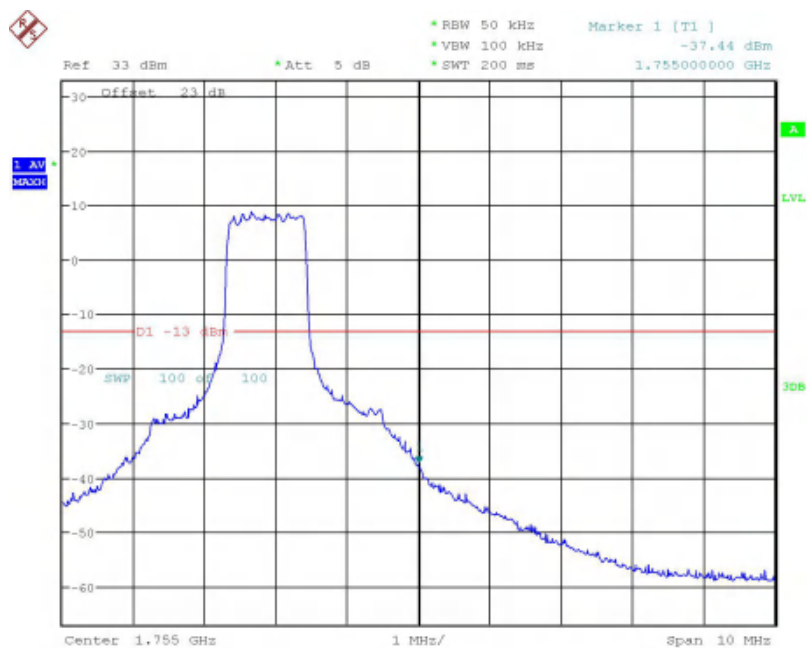
Date: 7.AUG.2018 10:40:12

Band4-High Channel-3MHz Bandwidth-1RB-QPSK



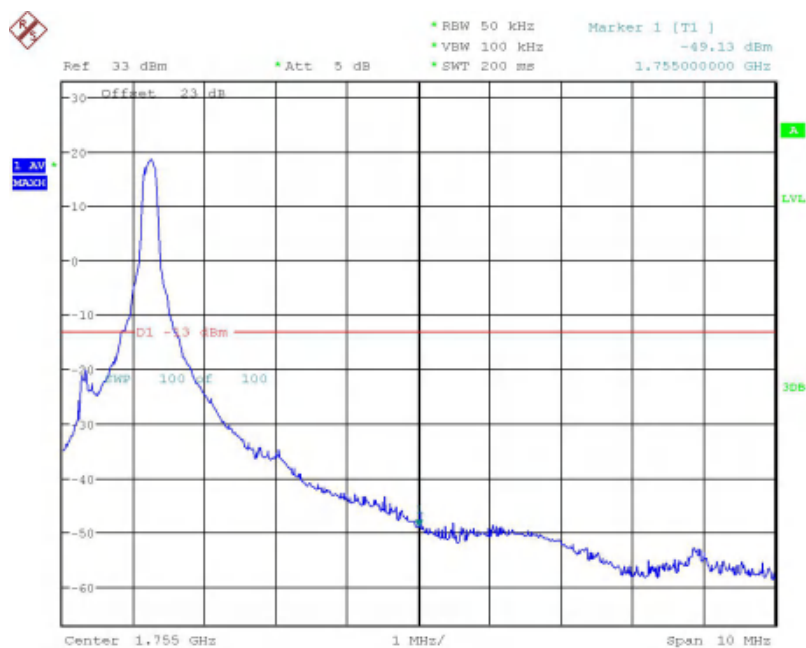
Date: 7.AUG.2018 10:42:23

Band4-High Channel-3MHz Bandwidth-6RB-16QAM



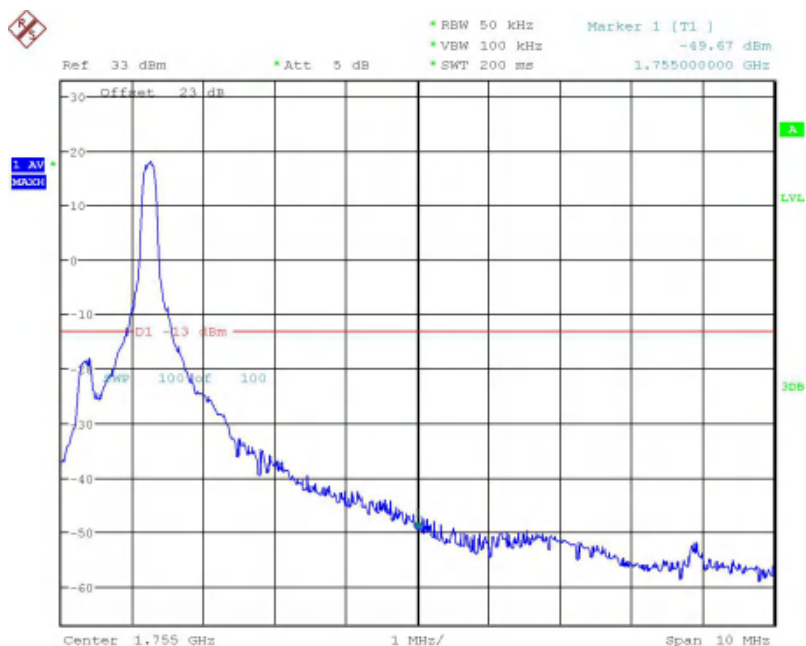
Date: 7.AUG.2018 10:39:07

Band4-High Channel-3MHz Bandwidth-6RB-QPSK



Date: 7.AUG.2018 10:50:47

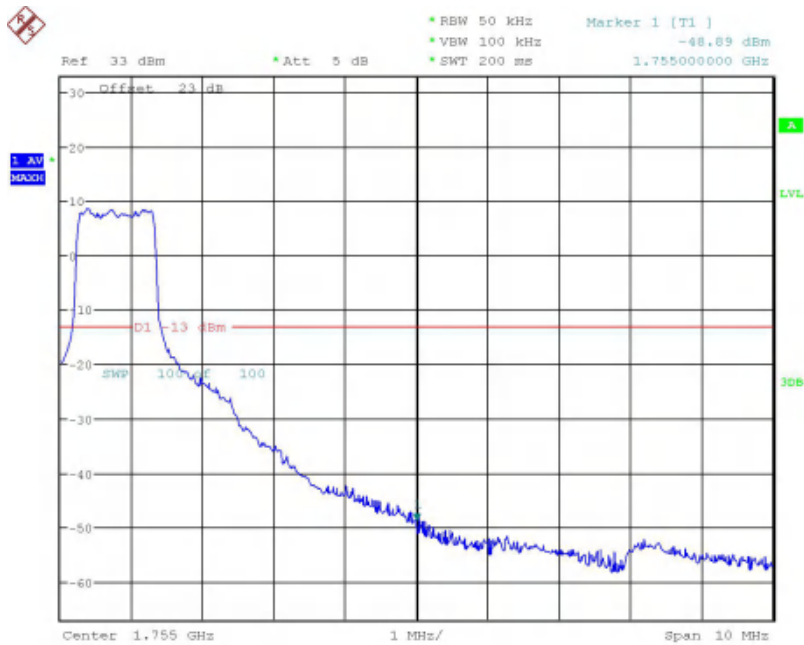
### Band4-High Channel-5MHz Bandwidth-1RB-16QAM



Date: 7.AUG.2018 10:53:41

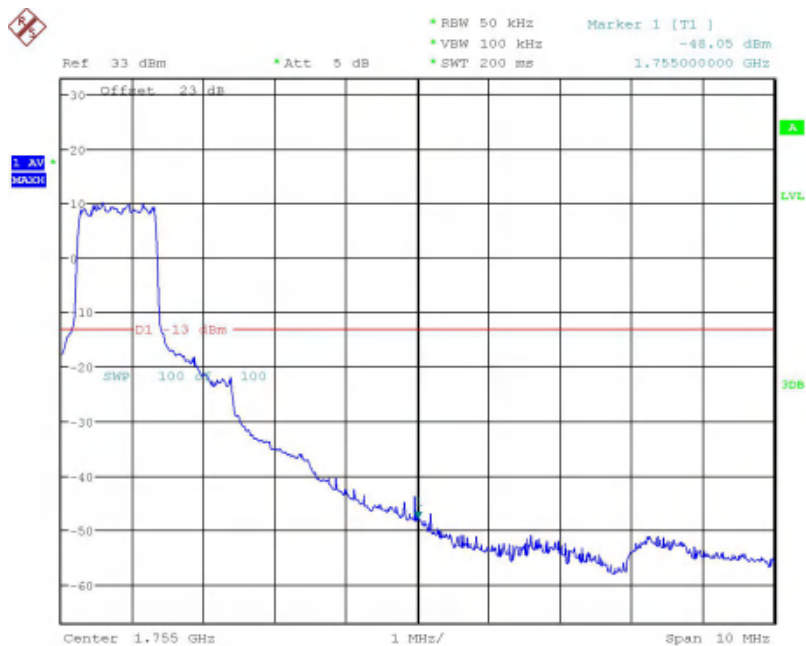
### Band4-High Channel-5MHz Bandwidth-1RB-QPSK





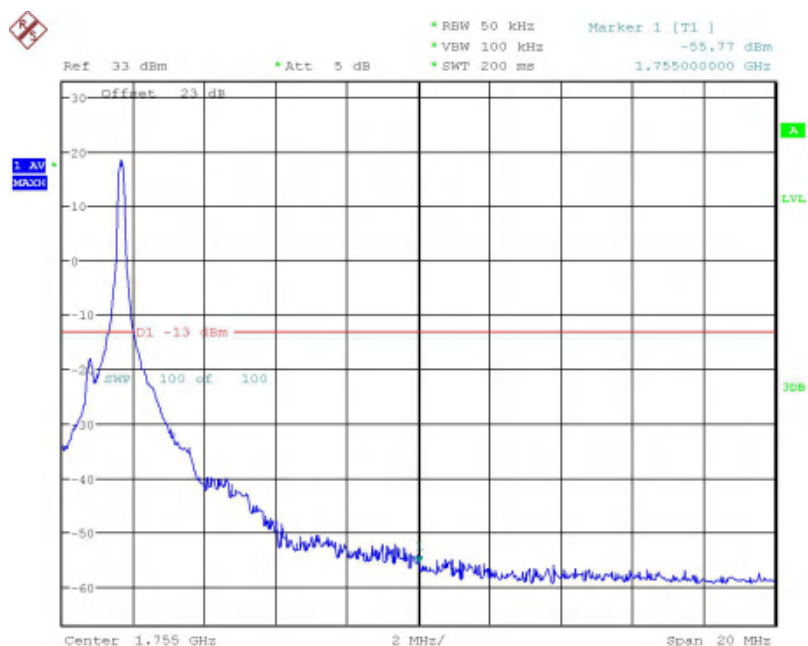
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Band4-High Channel-5MHz Bandwidth-6RB-16QAM



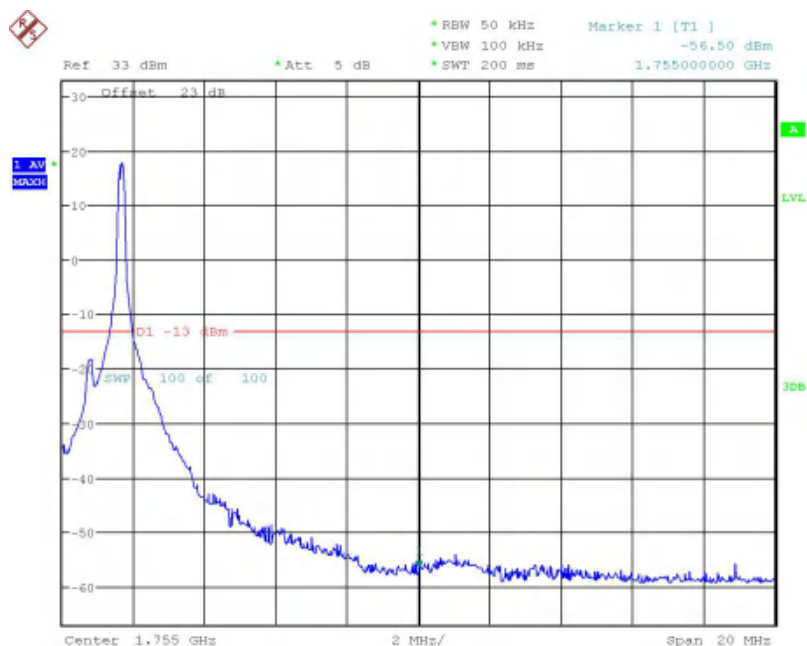
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Band4-High Channel-5MHz Bandwidth-6RB-QPSK



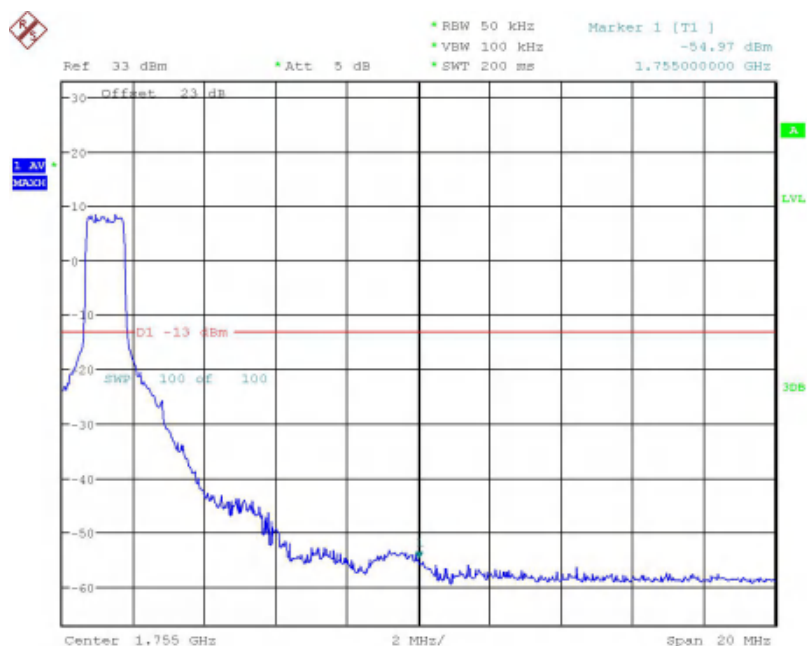
Date: 7.AUG.2018 10:56:56

### Band4-High Channel-10MHz Bandwidth-1RB-16QAM



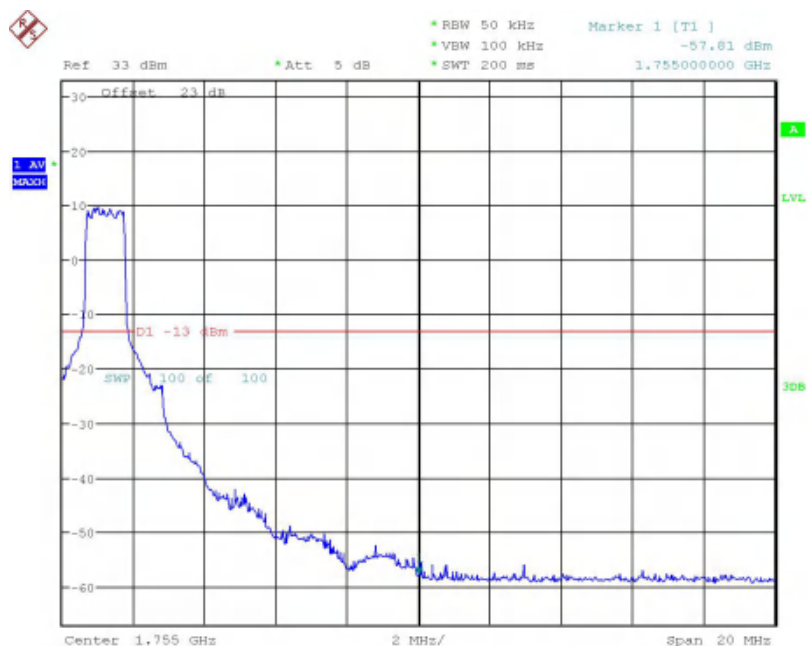
Date: 7.AUG.2018 10:56:07

### Band4-High Channel-10MHz Bandwidth-1RB-QPSK



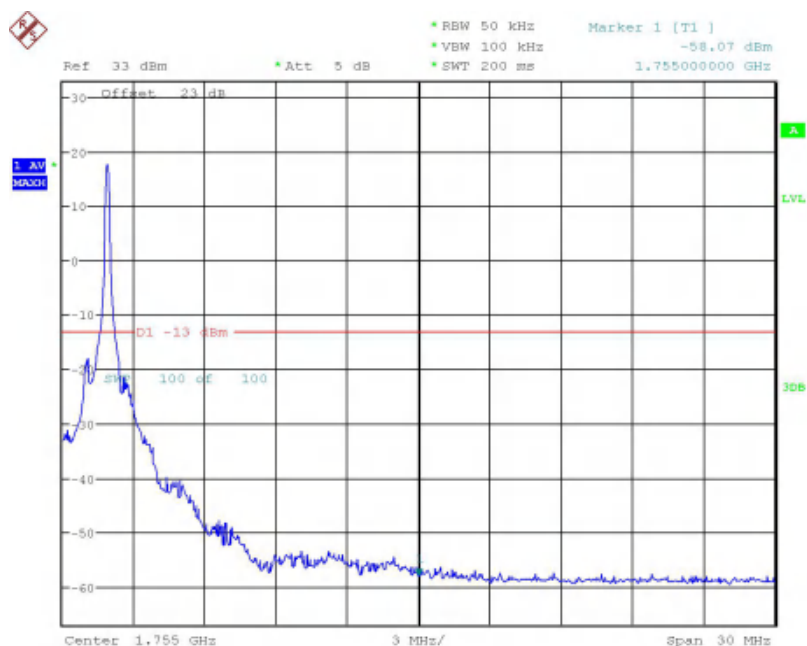
Date: 7.AUG.2018 10:57:45

### Band4-High Channel-10MHz Bandwidth-6RB-16QAM



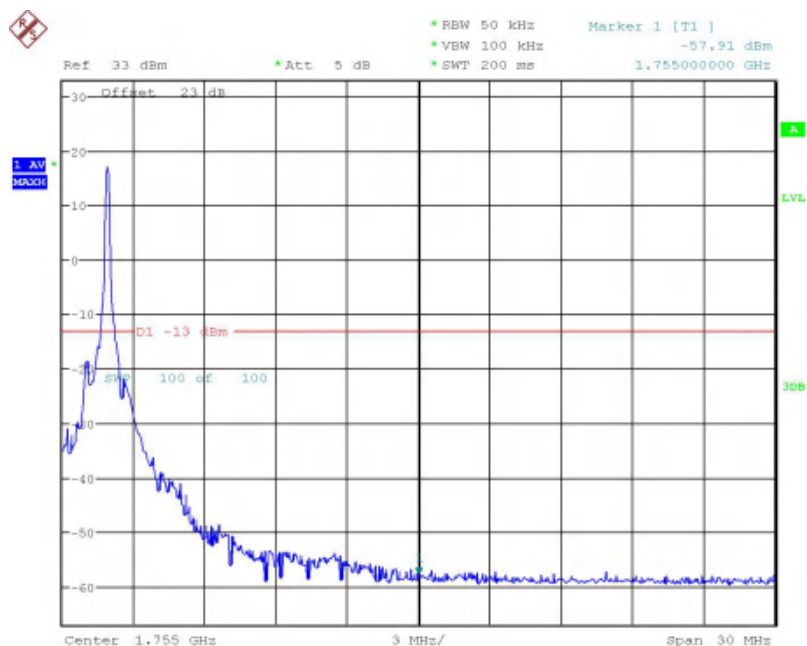
Date: 7.AUG.2018 10:55:27

### Band4-High Channel-10MHz Bandwidth-6RB-QPSK



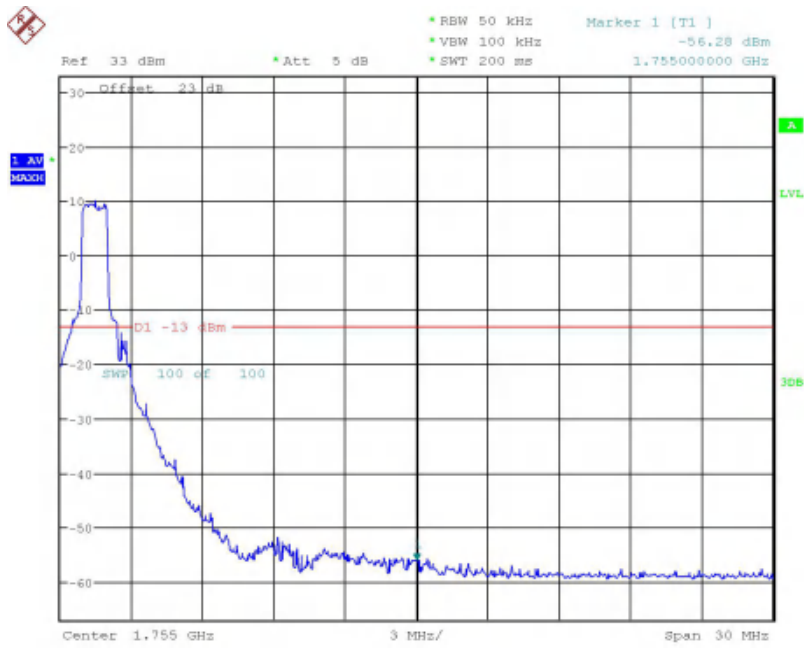
Date: 7.AUG.2018 11:02:02

### Band4-High Channel-15MHz Bandwidth-1RB-16QAM



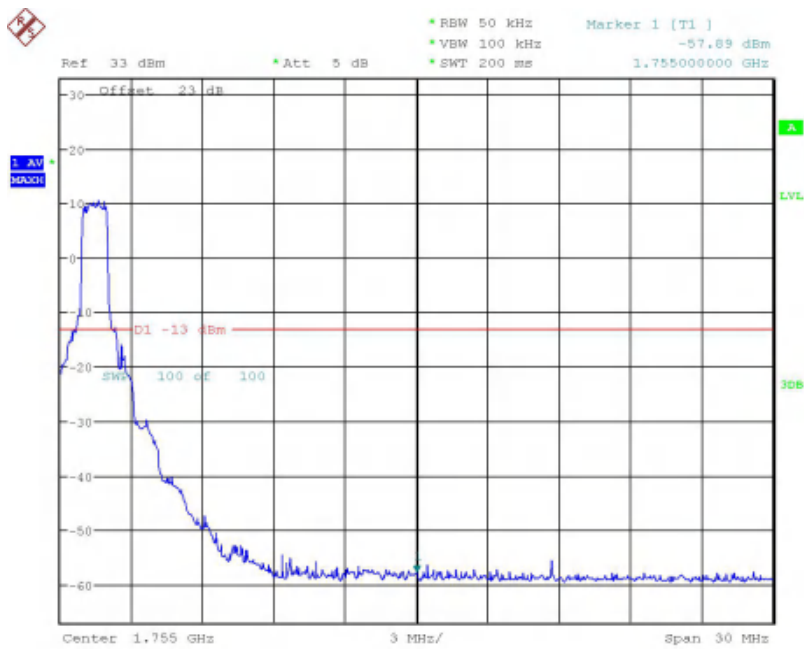
Date: 7.AUG.2018 11:02:43

### Band4-High Channel-15MHz Bandwidth-1RB-QPSK



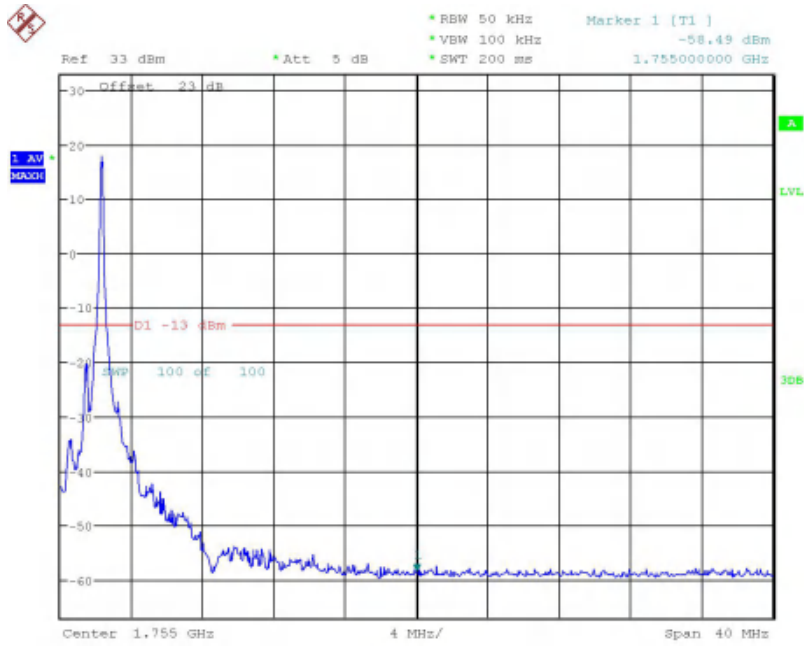
Date: 7.AUG.2018 10:59:12

Band4-High Channel-15MHz Bandwidth-6RB-16QAM



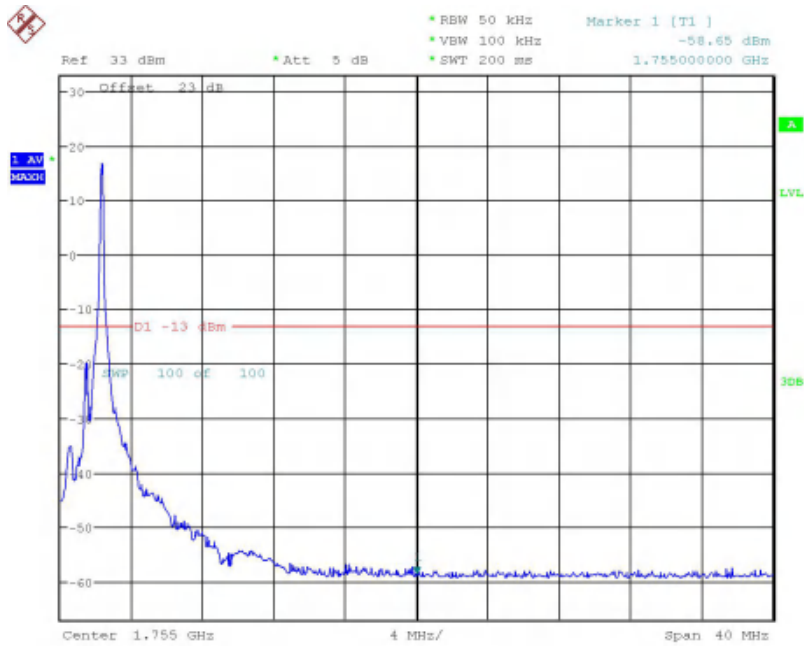
Date: 7.AUG.2018 10:59:55

Band4-High Channel-15MHz Bandwidth-6RB-QPSK



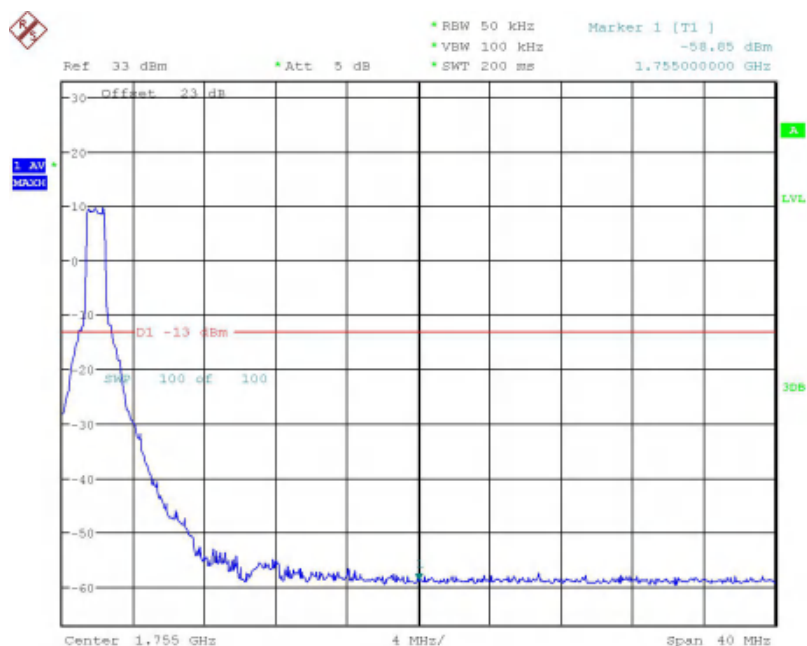
Date: 7.AUG.2018 11:05:40

Band4-High Channel-20MHz Bandwidth-1RB-16QAM



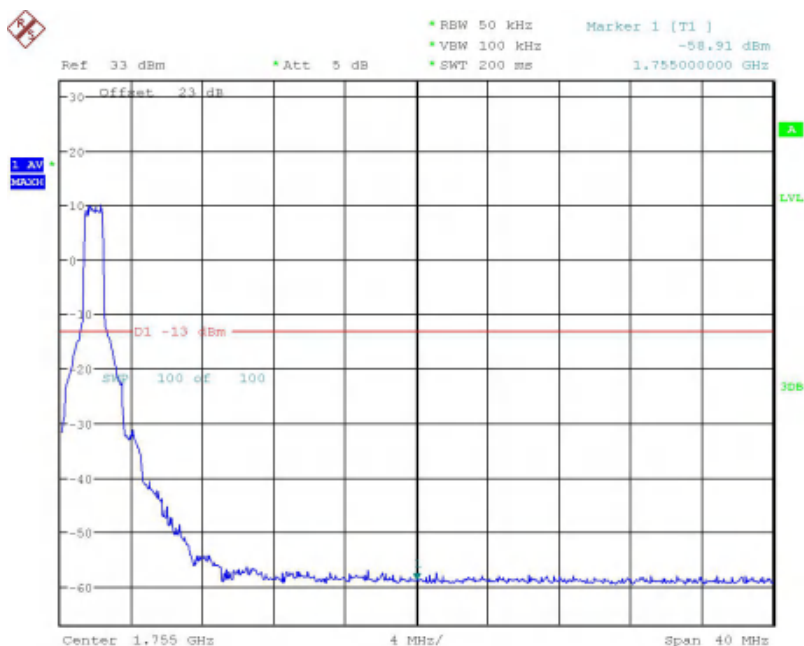
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Band4-High Channel-20MHz Bandwidth-1RB-QPSK



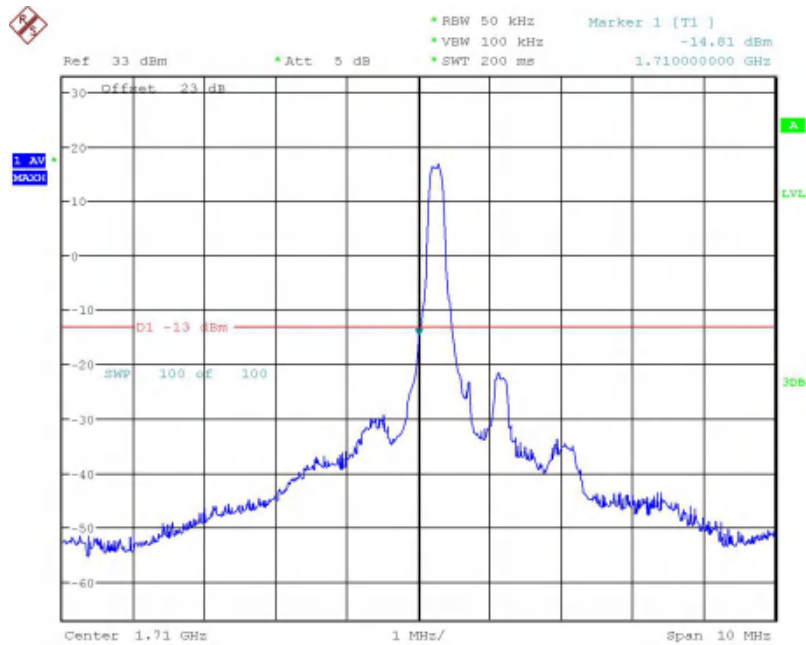
Date: 7.AUG.2018 11:04:48

### Band4-High Channel-20MHz Bandwidth-6RB-16QAM



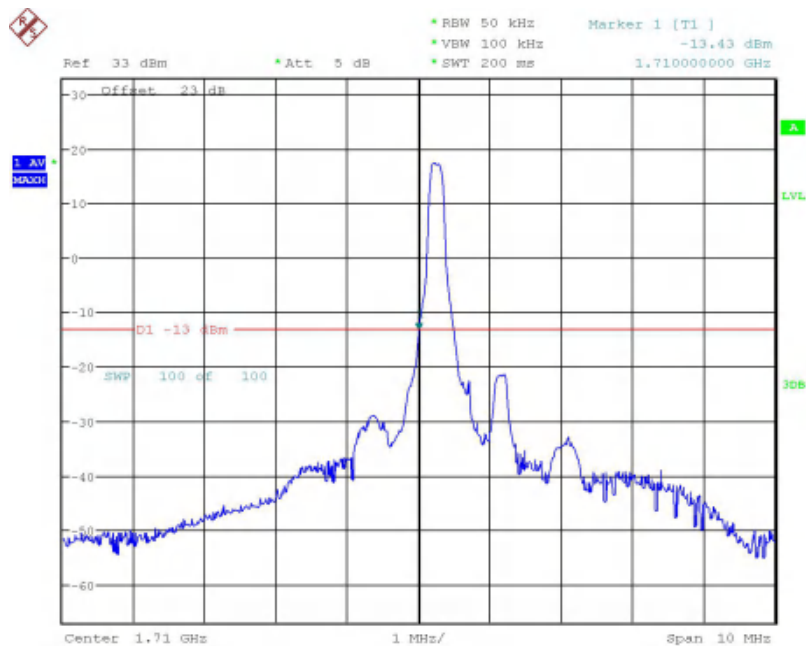
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### Band4-High Channel-20MHz Bandwidth-6RB-QPSK



Date: 7.AUG.2018 10:11:00

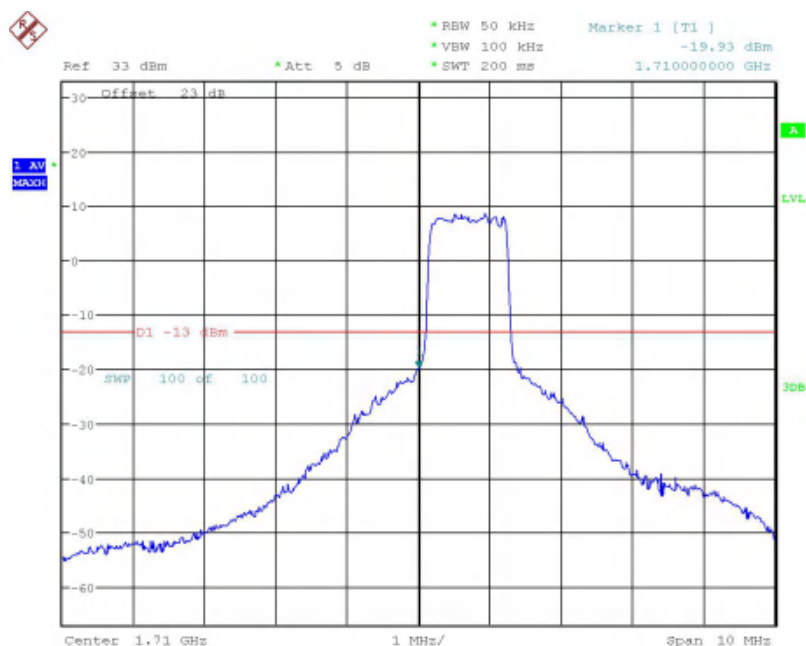
Band4-Low Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 7.AUG.2018 10:07:09

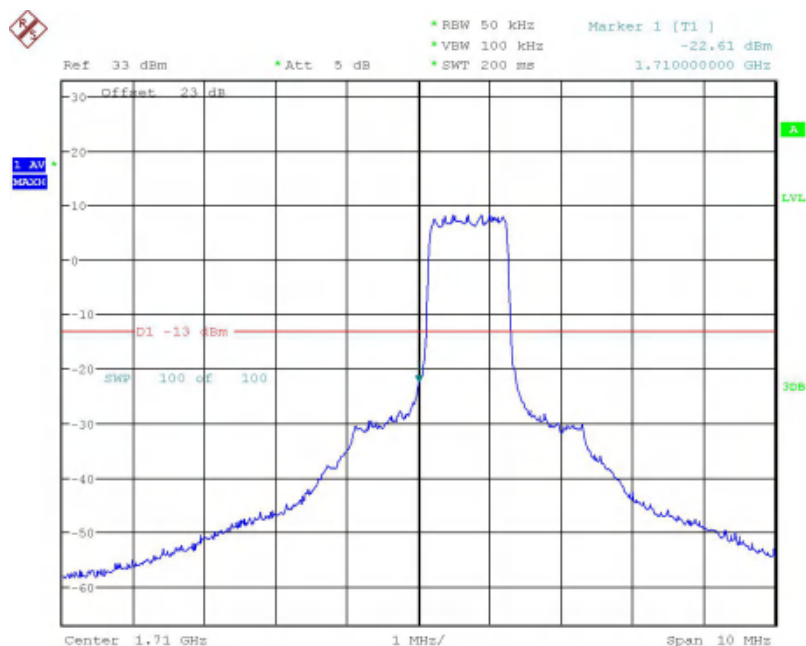
Band4-Low Channel-1.4MHz Bandwidth-1RB-QPSK





Date: 7.AUG.2018 10:10:02

### Band4-Low Channel-1.4MHz Bandwidth-6RB-16QAM



Date: 7.AUG.2018 10:08:34

### Band4-Low Channel-1.4MHz Bandwidth-6RB-QPSK