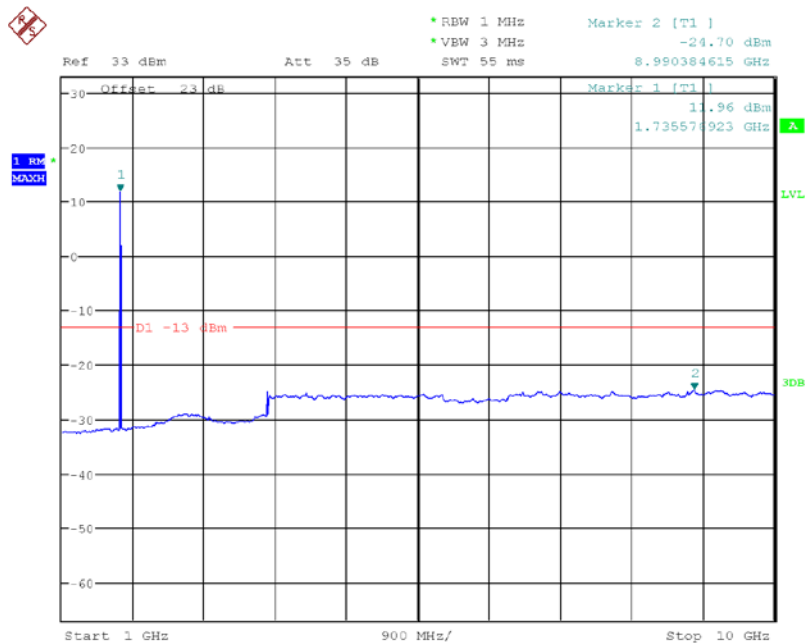
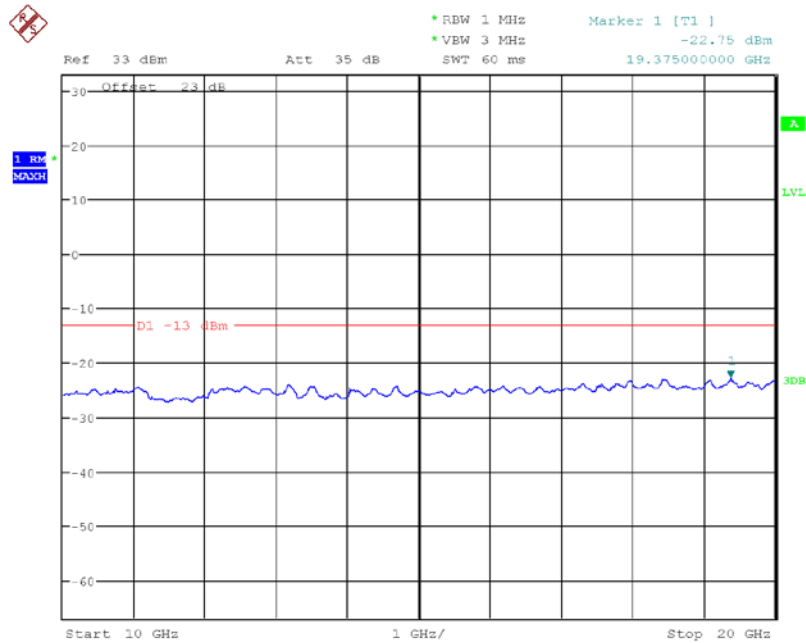


Report No.:B18W50279



Date: 7.AUG.2018 13:41:28

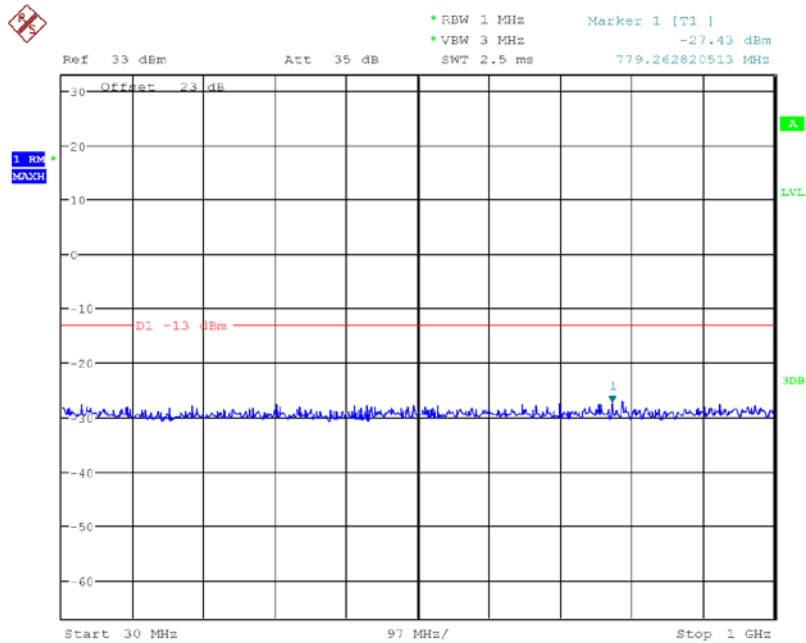
Band4-High Channel-3MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:55:13

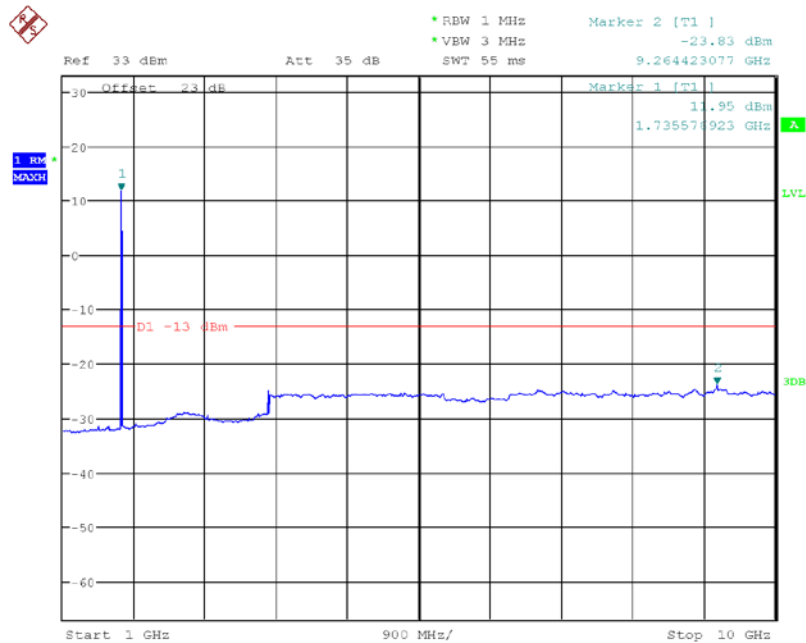
Band4-High Channel-3MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:53:03

Band4-High Channel-5MHz Bandwidth-30MHz to 1GHz

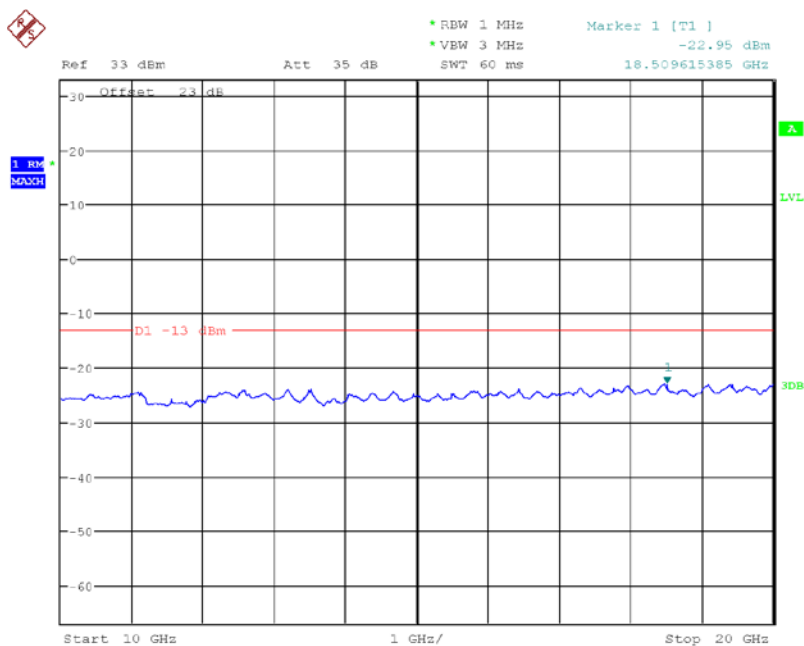


Date: 7.AUG.2018 13:41:49

Band4-High Channel-5MHz Bandwidth-1GHz to 10GHz

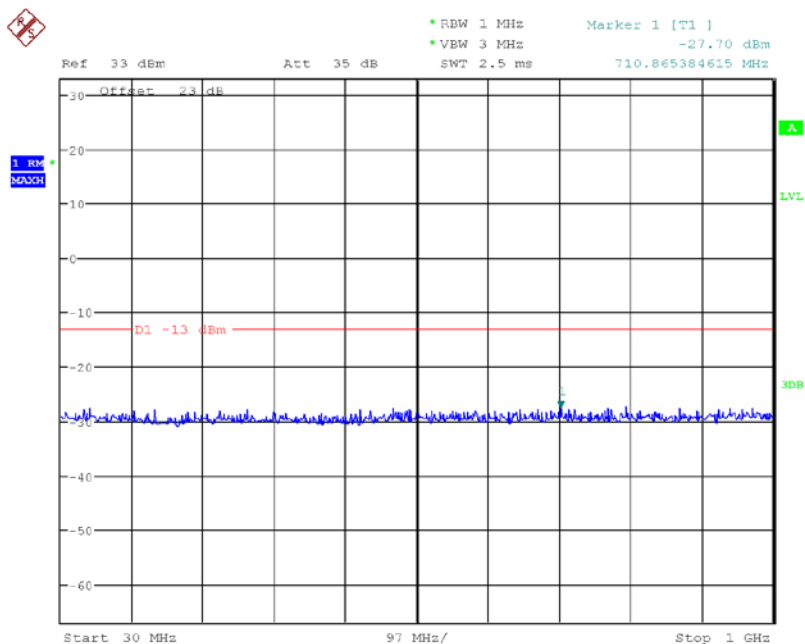
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:55:24

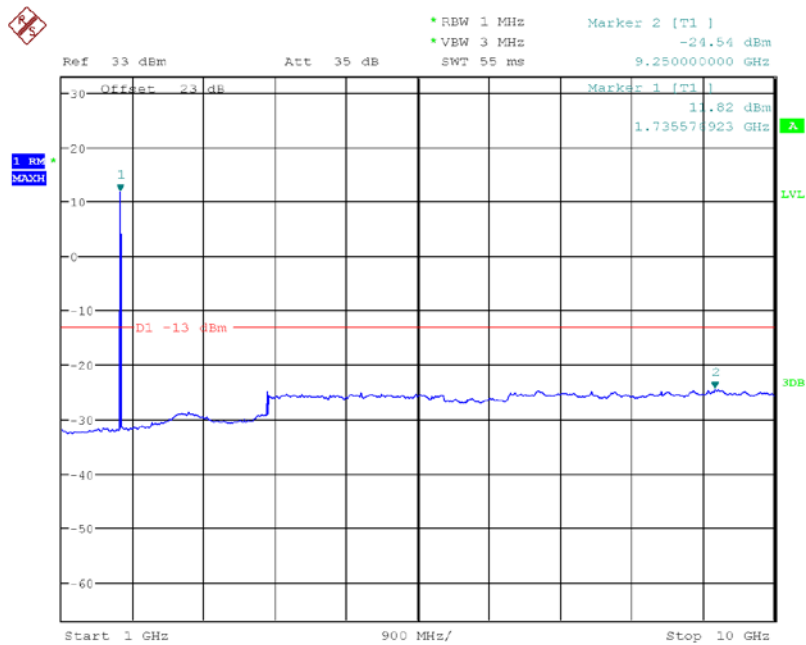
Band4-High Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:53:17

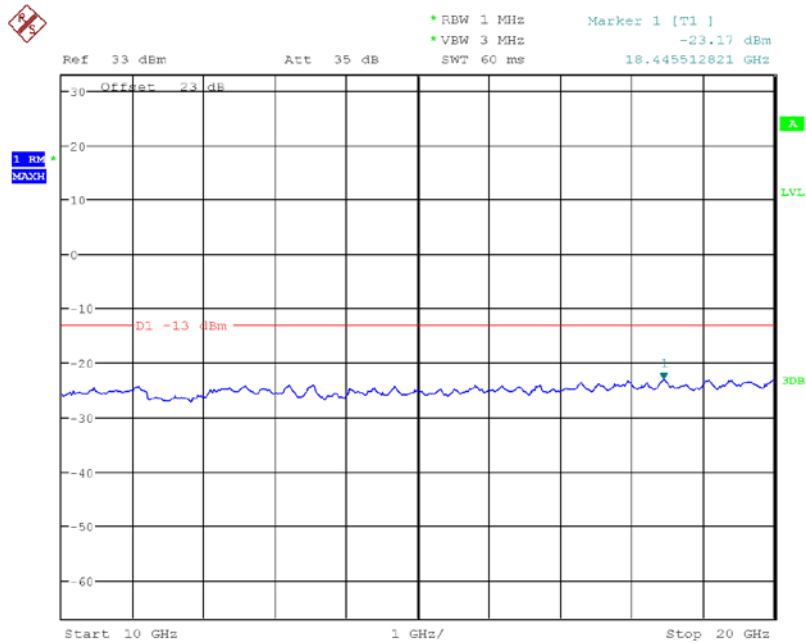
Band4-High Channel-10MHz Bandwidth-30MHz to 1GHz

Report No.:B18W50279



Date: 7.AUG.2018 13:42:13

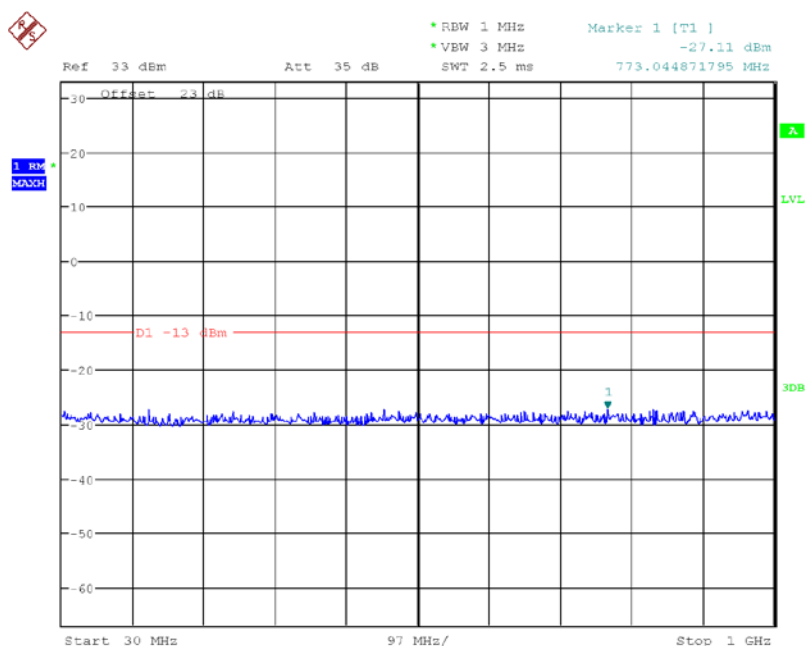
Band4-High Channel-10MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:55:35

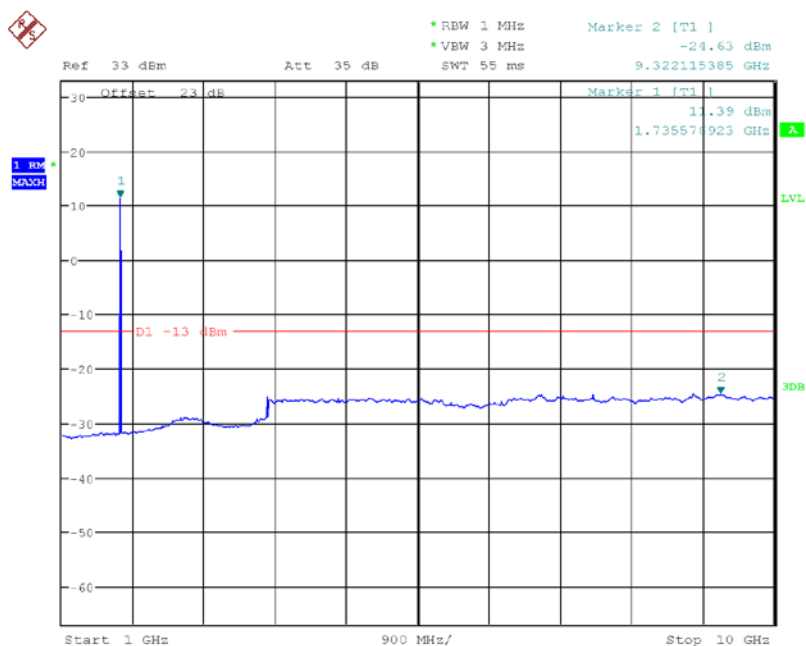
Band4-High Channel-10MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:53:51

Band4-High Channel-15MHz Bandwidth-30MHz to 1GHz

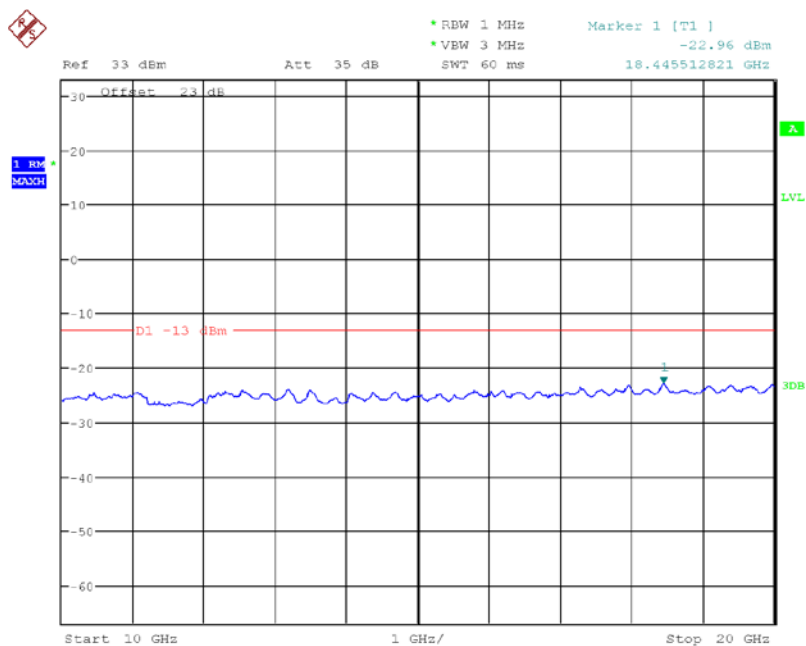


Date: 7.AUG.2018 13:42:31

Band4-High Channel-15MHz Bandwidth-1GHz to 10GHz

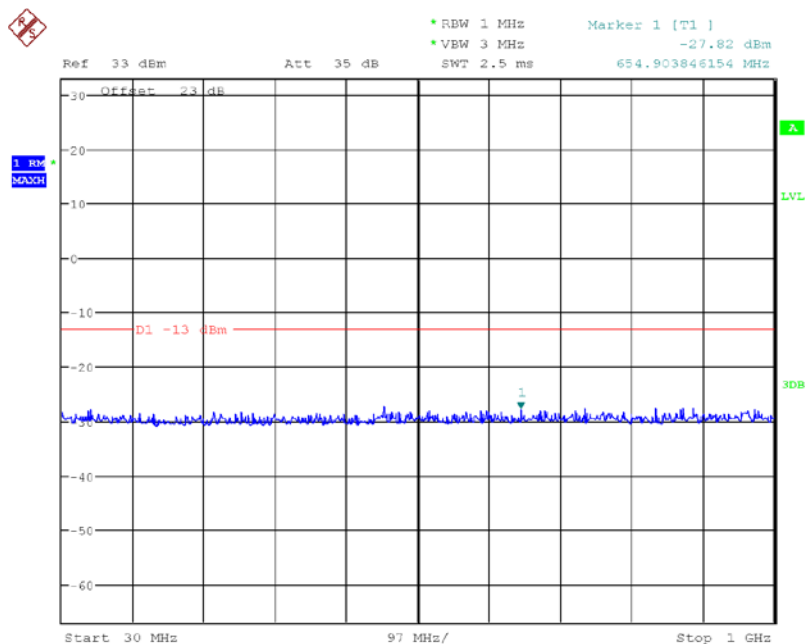
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:55:48

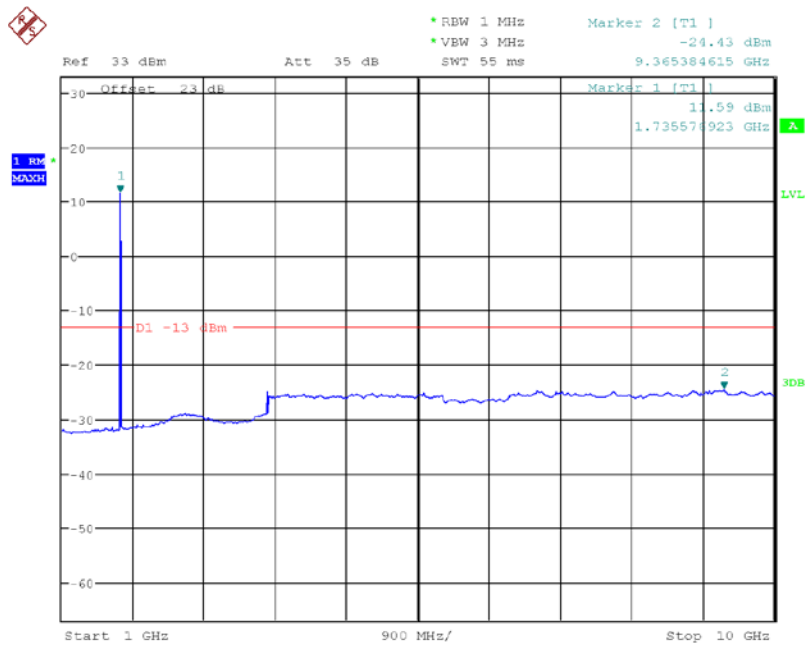
Band4-High Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:53:36

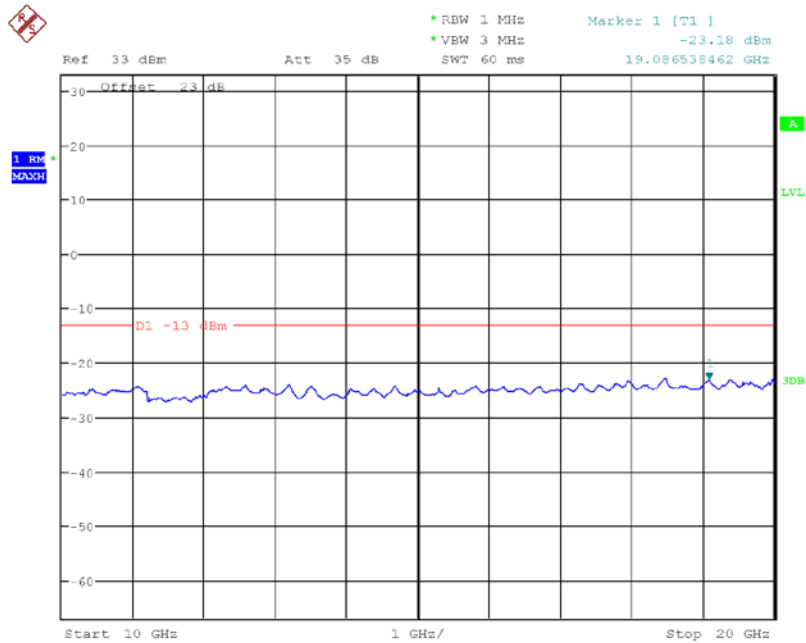
Band4-High Channel-20MHz Bandwidth-30MHz to 1GHz

Report No.:B18W50279



Date: 7.AUG.2018 13:42:58

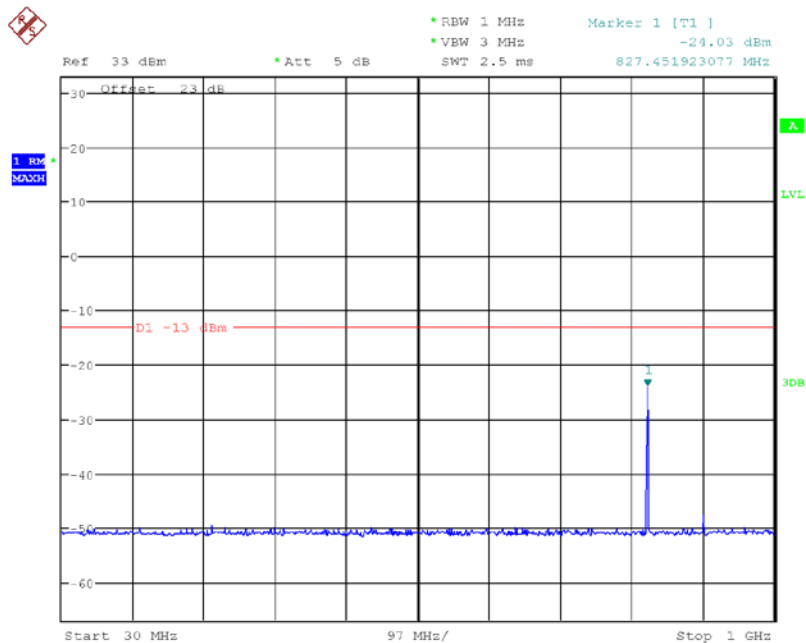
Band4-High Channel-20MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:56:00

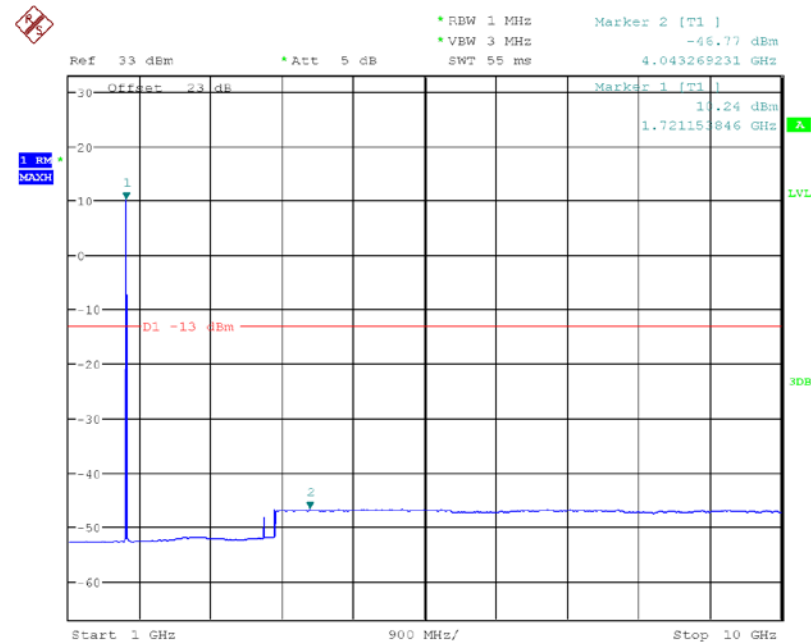
Band4-High Channel-20MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:22:19

Band4-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz

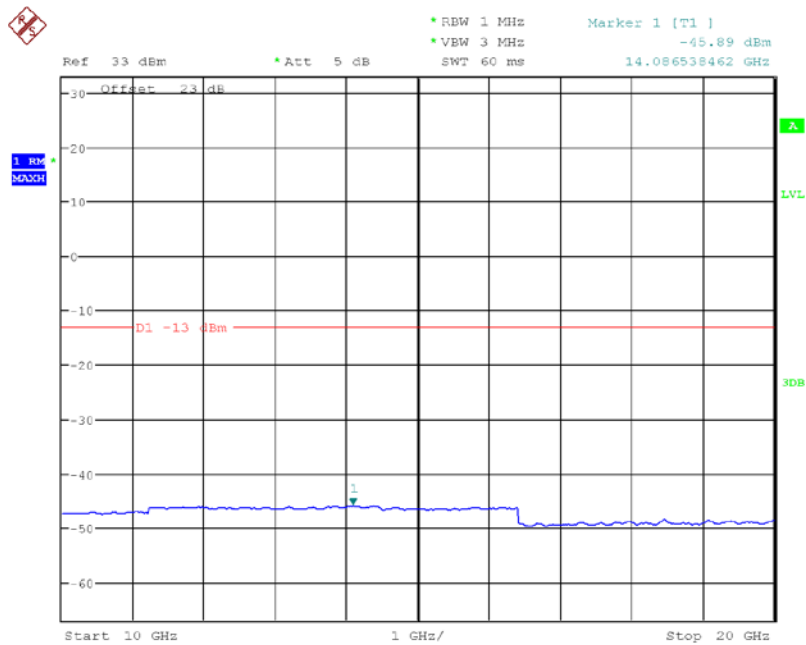


Date: 7.AUG.2018 11:22:48

Band4-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

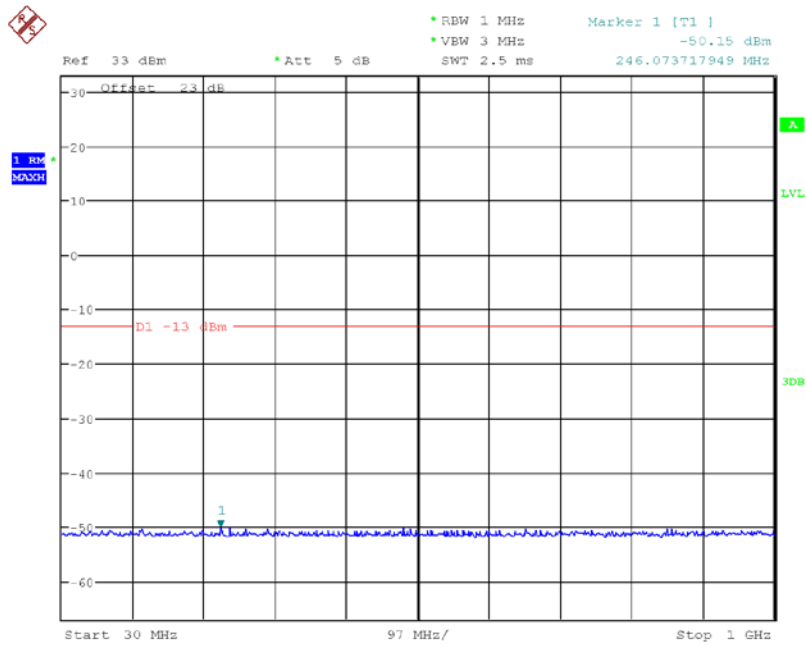
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:23:12

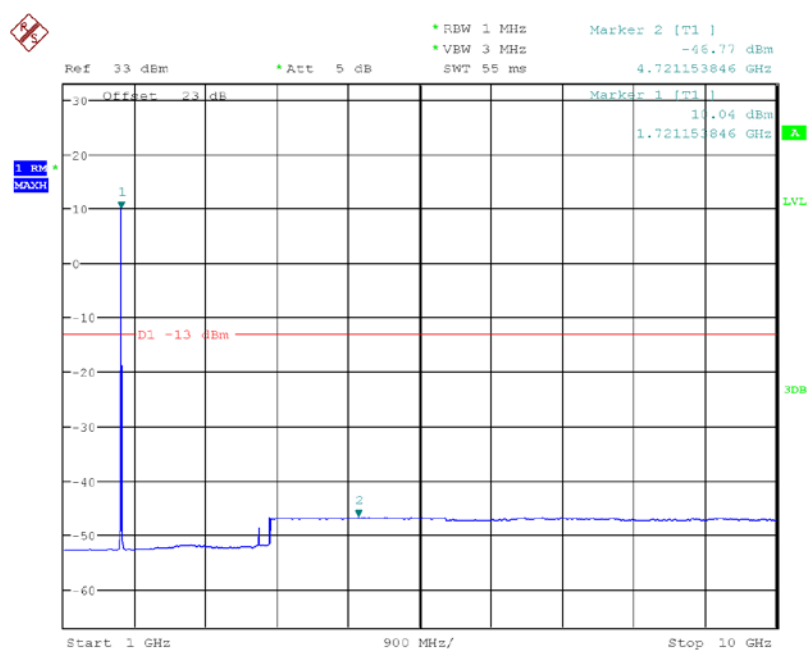
Band4-Middle Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:24:31

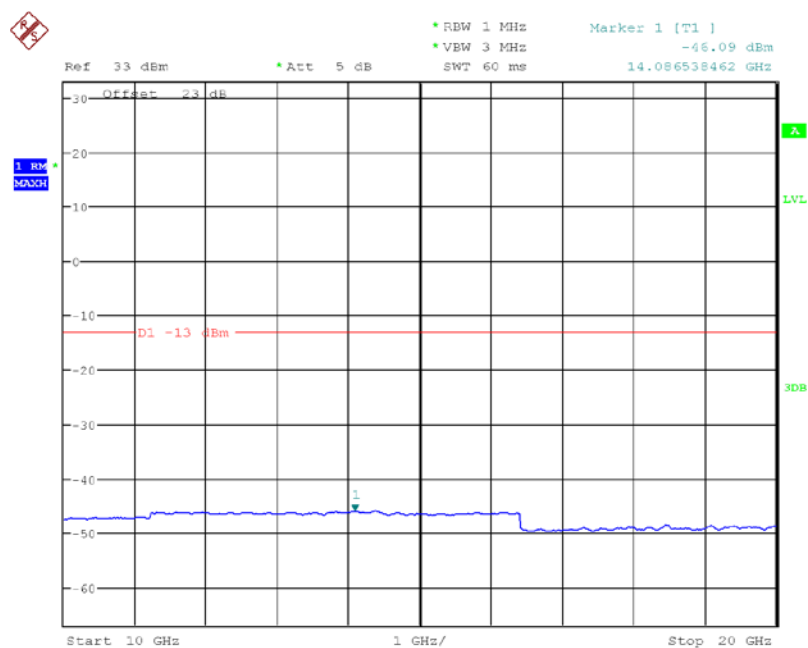
Band4-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:24:04

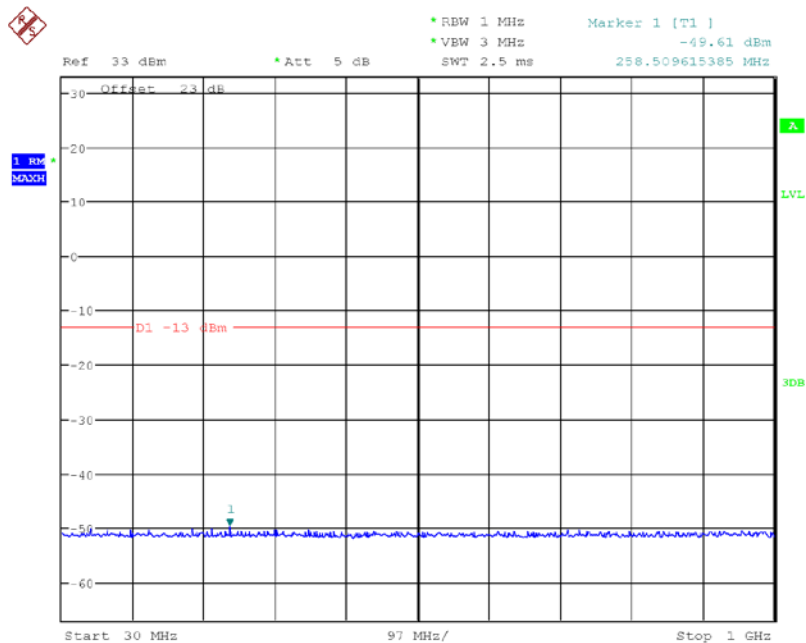
Band4-Middle Channel-3MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:23:37

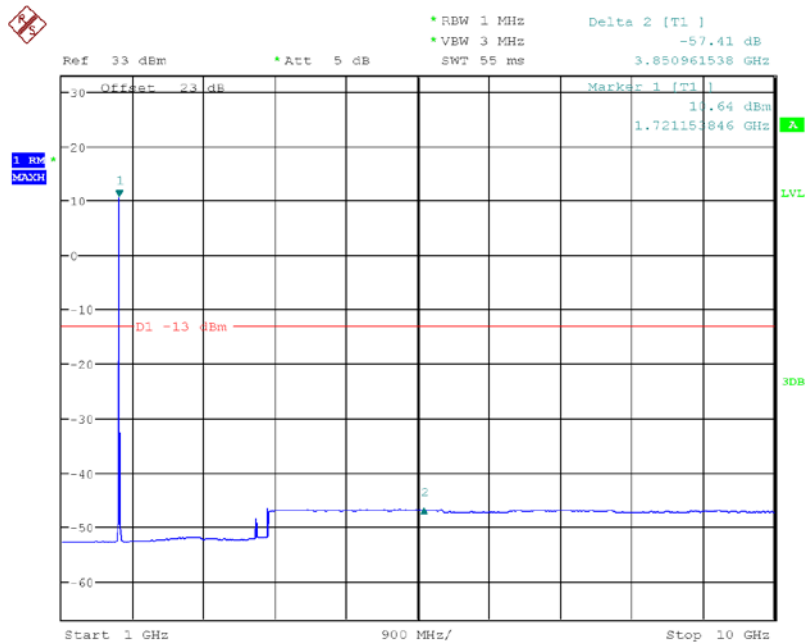
Band4-Middle Channel-3MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:25:38

Band4-Middle Channel-5MHz Bandwidth-30MHz to 1GHz

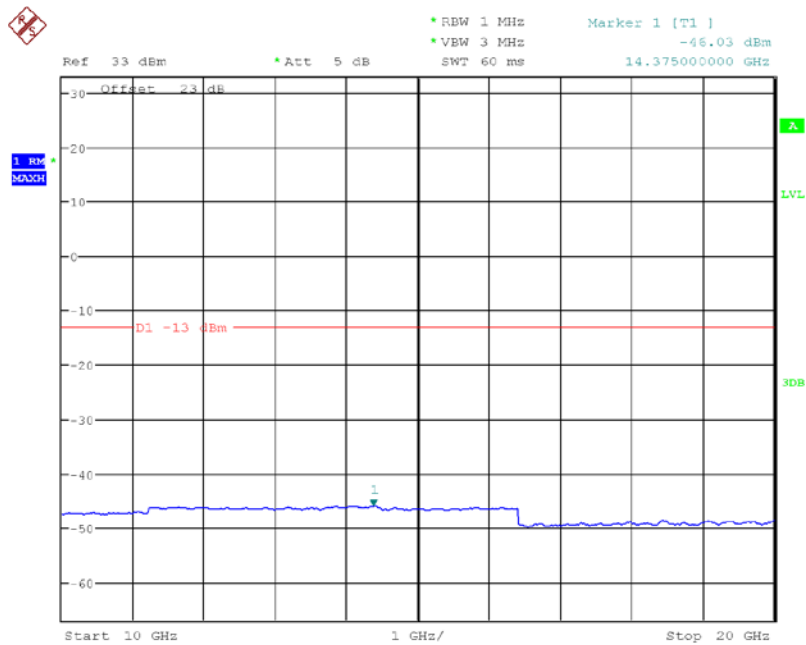


Date: 7.AUG.2018 11:26:01

Band4-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

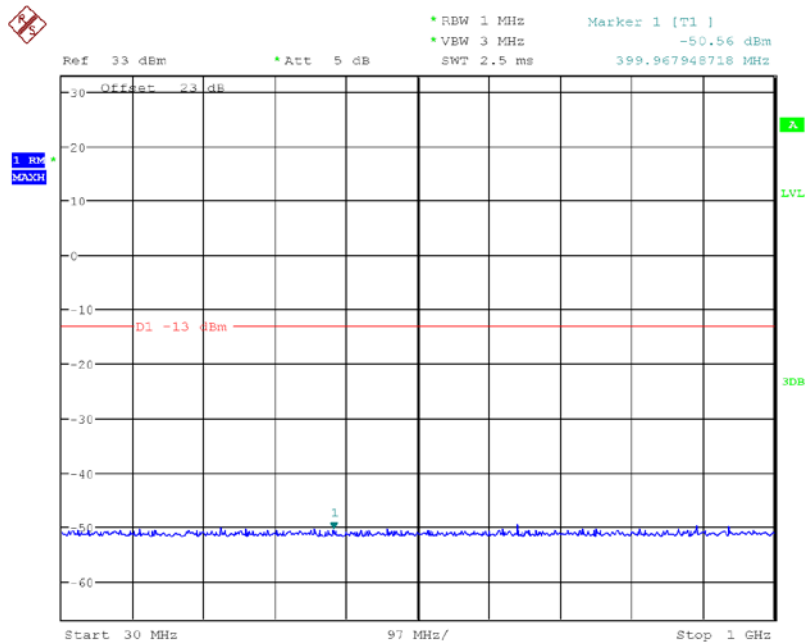
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:26:31

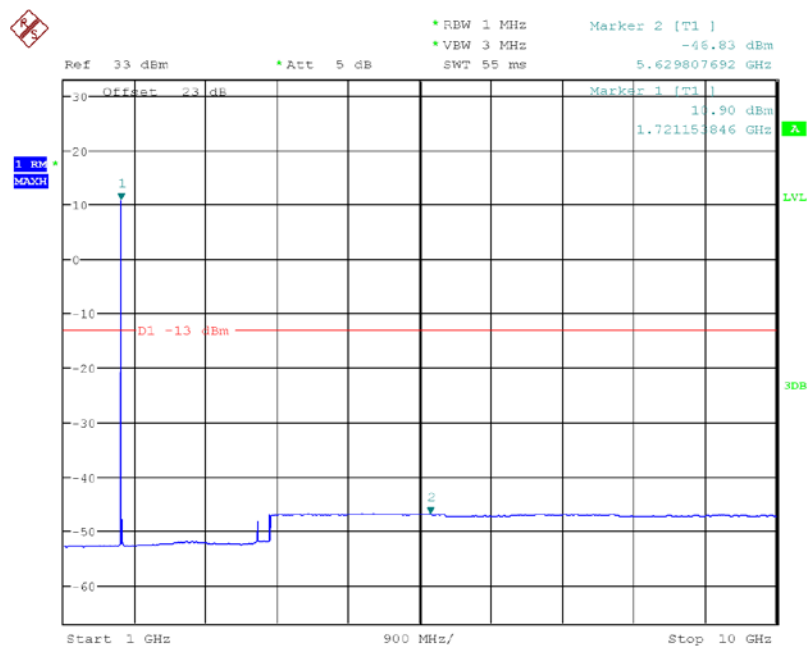
Band4-Middle Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:28:23

Band4-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

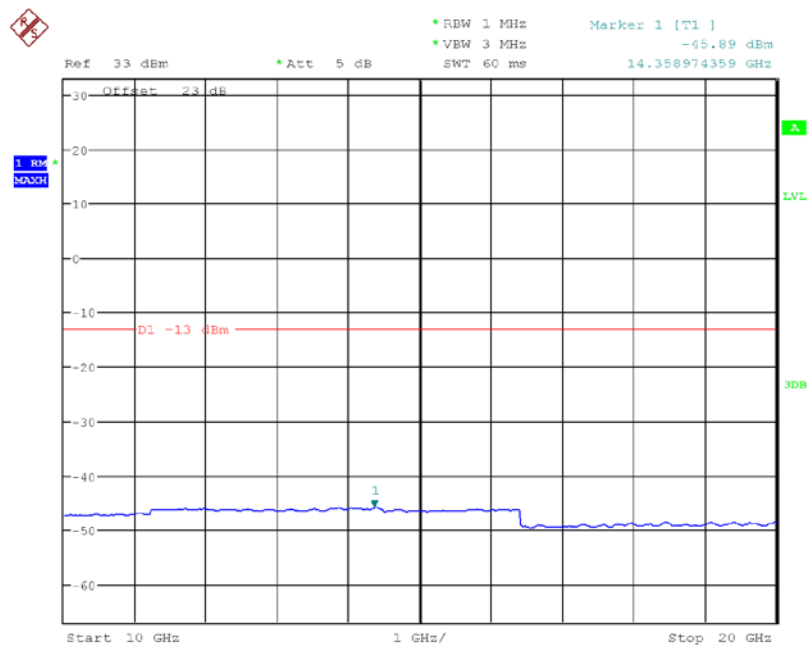
Report No.:B18W50279



Date: 7.AUG.2018 11:29:03

Band4-Middle Channel-10MHz Bandwidth-1GHz to 10GHz

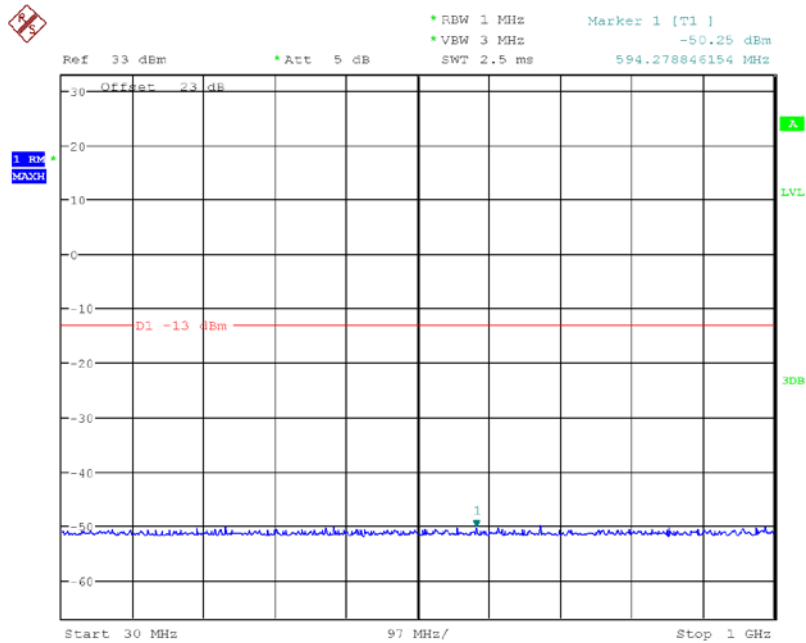
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:27:19

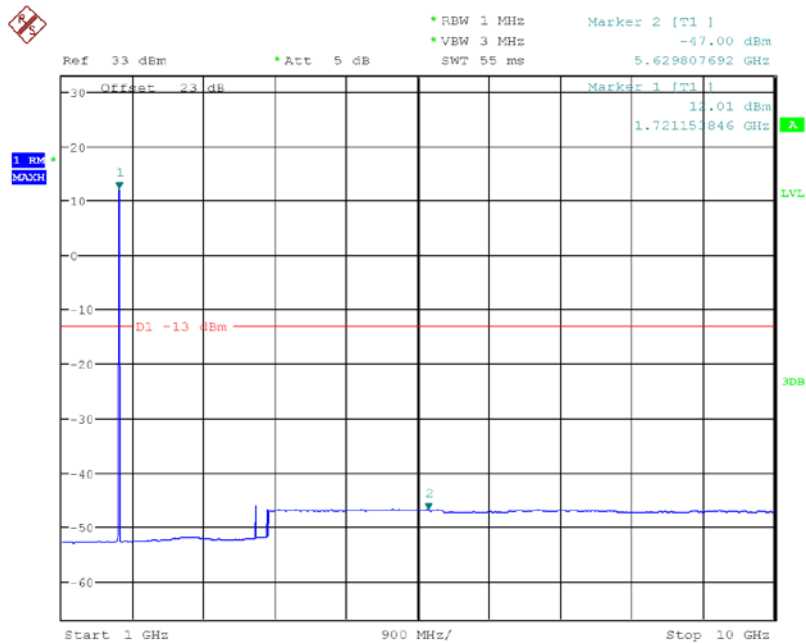
Band4-Middle Channel-10MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:30:25

Band4-Middle Channel-15MHz Bandwidth-30MHz to 1GHz

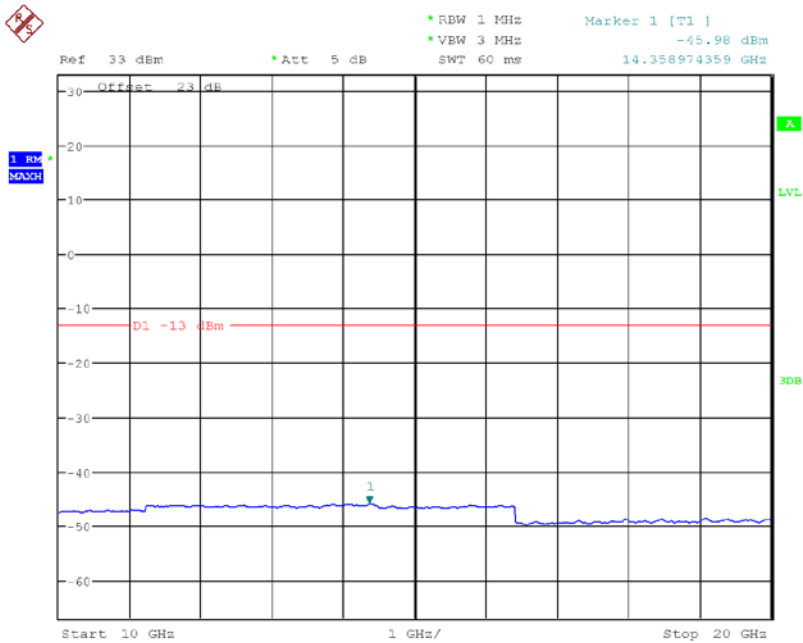


Date: 7.AUG.2018 11:29:55

Band4-Middle Channel-15MHz Bandwidth-1GHz to 10GHz

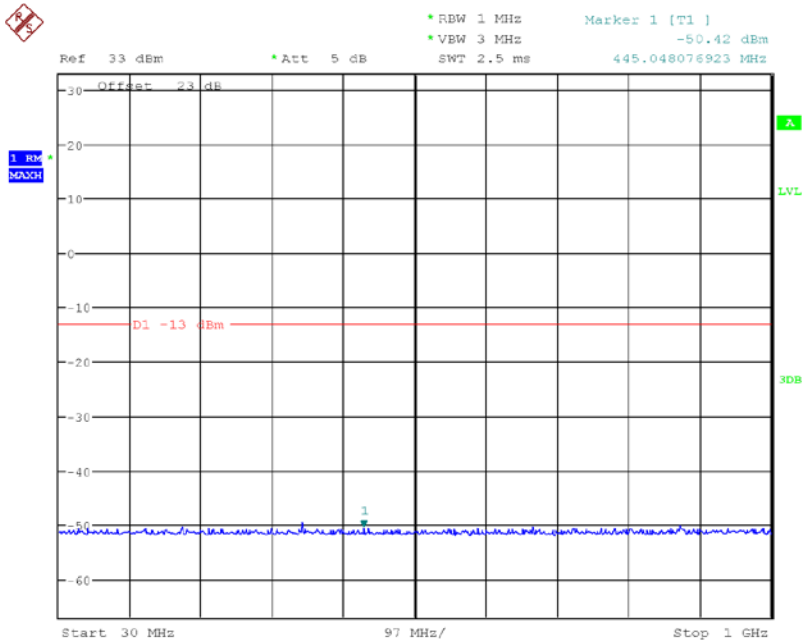
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:30:44

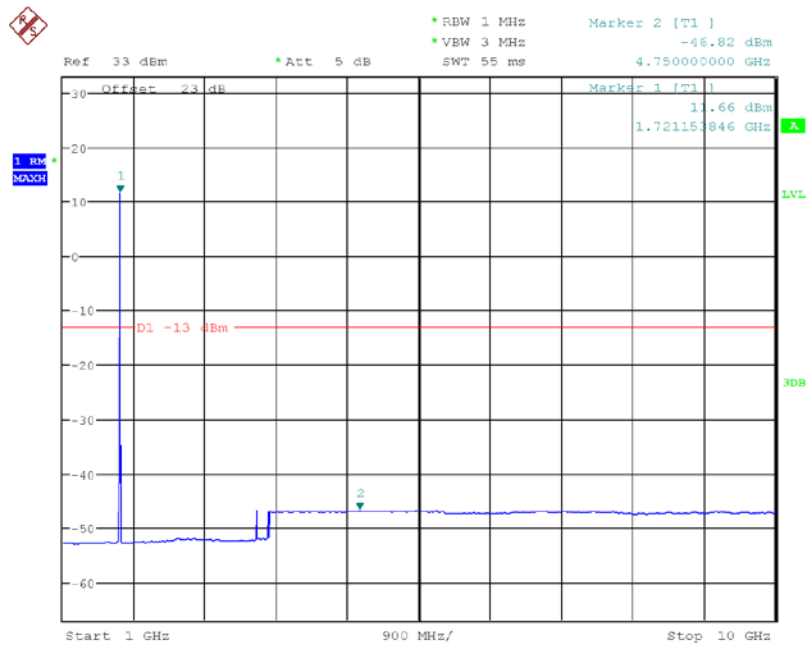
Band4-Middle Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:31:20

Band4-Middle Channel-20MHz Bandwidth-30MHz to 1GHz

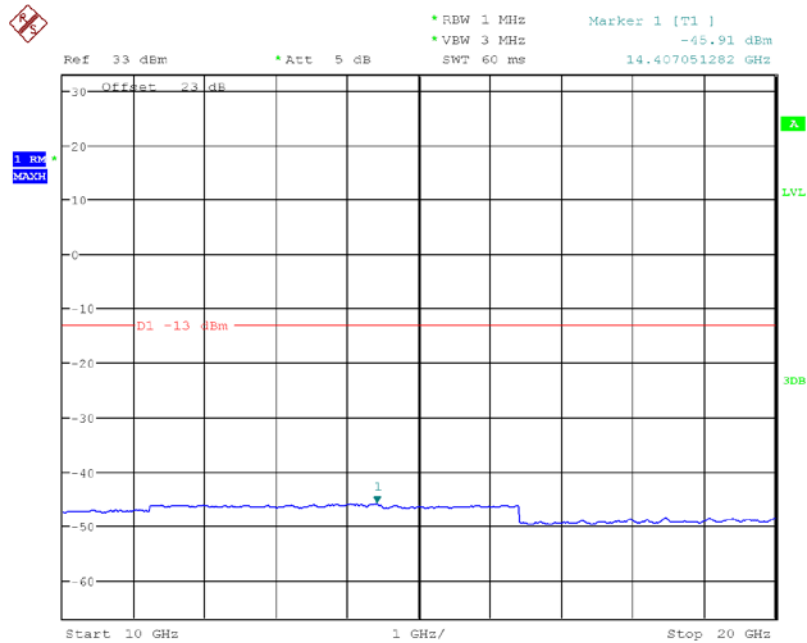
Report No.:B18W50279



Date: 7.AUG.2018 11:31:42

Band4-Middle Channel-20MHz Bandwidth-1GHz to 10GHz

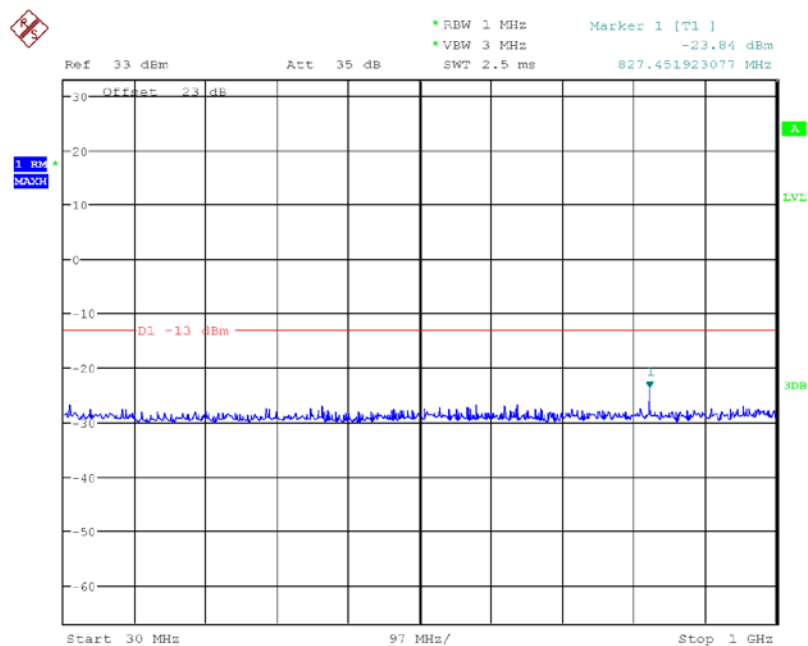
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:32:03

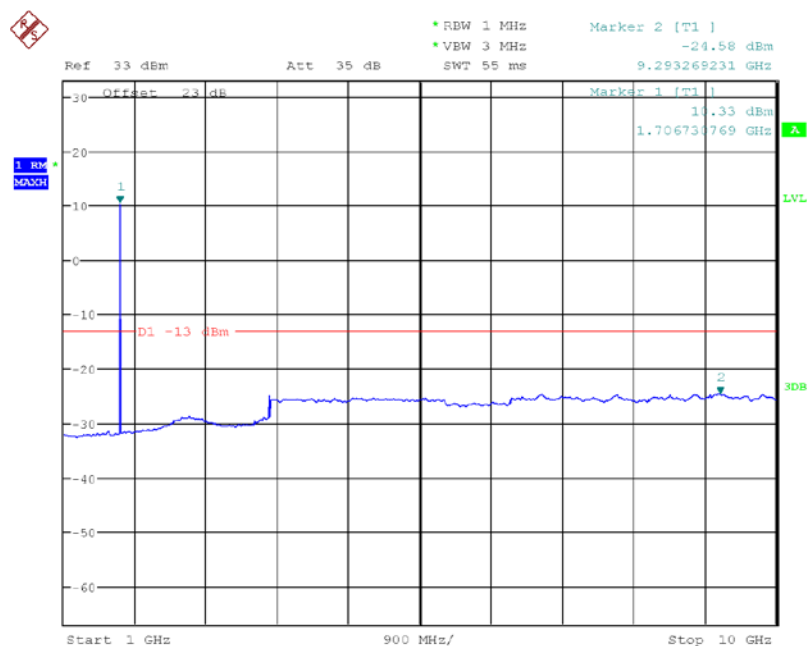
Band4-Middle Channel-20MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:42:59

Band4-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz

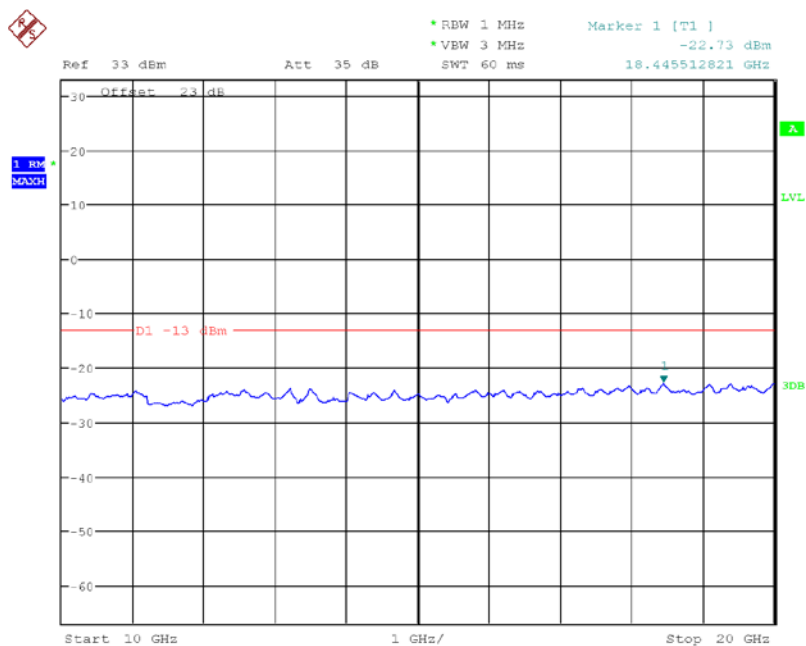


Date: 7.AUG.2018 11:43:29

Band4-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

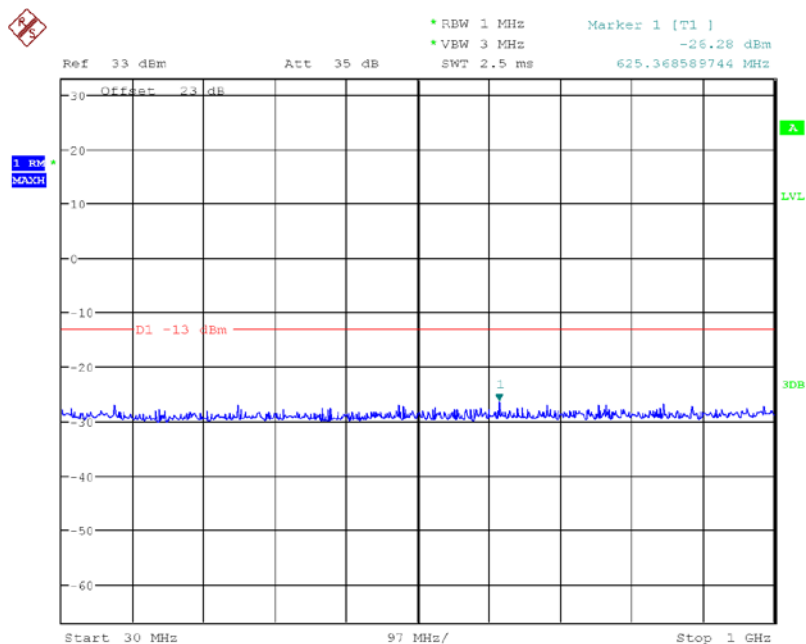
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:43:50

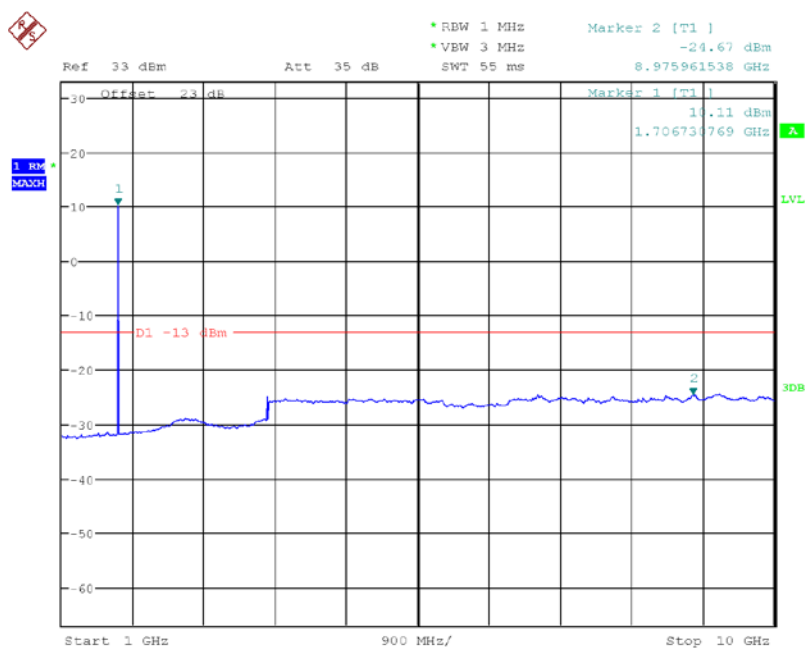
Band4-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:47:36

Band4-Low Channel-3MHz Bandwidth-30MHz to 1GHz

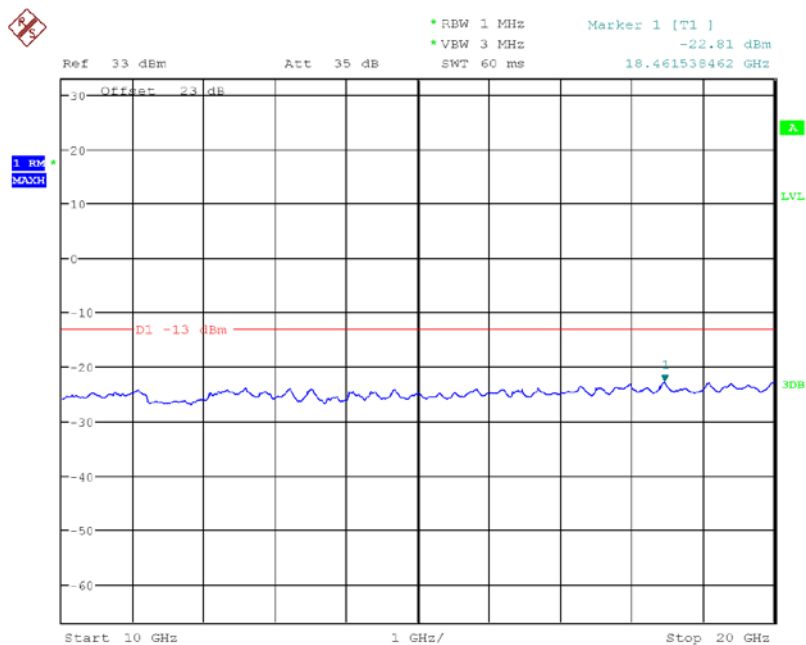
Report No.:B18W50279



Date: 7.AUG.2018 11:47:01

Band4-Low Channel-3MHz Bandwidth-1GHz to 10GHz

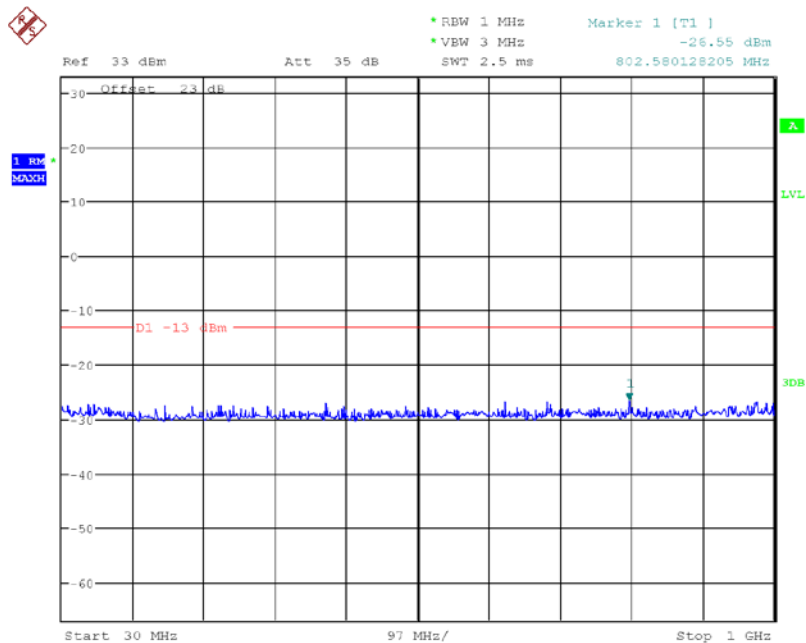
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:46:33

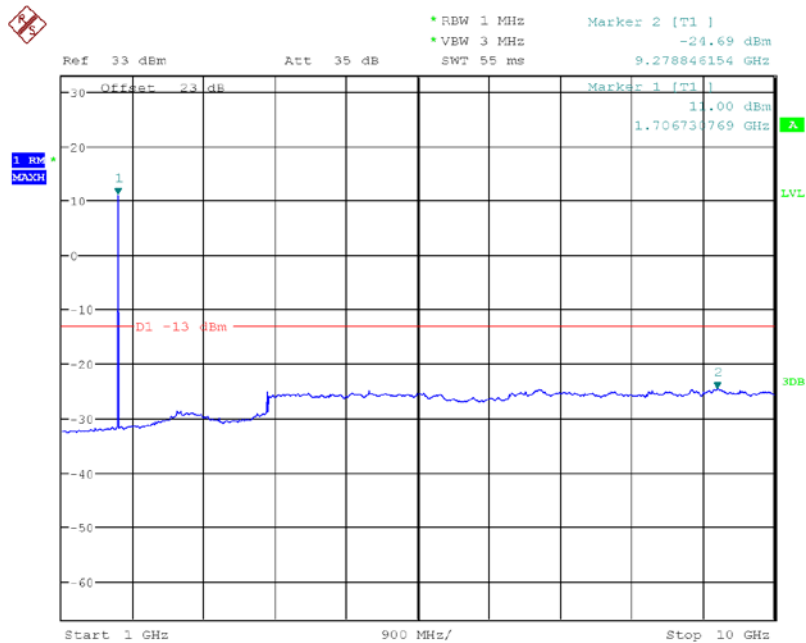
Band4-Low Channel-3MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:48:42

Band4-Low Channel-5MHz Bandwidth-30MHz to 1GHz

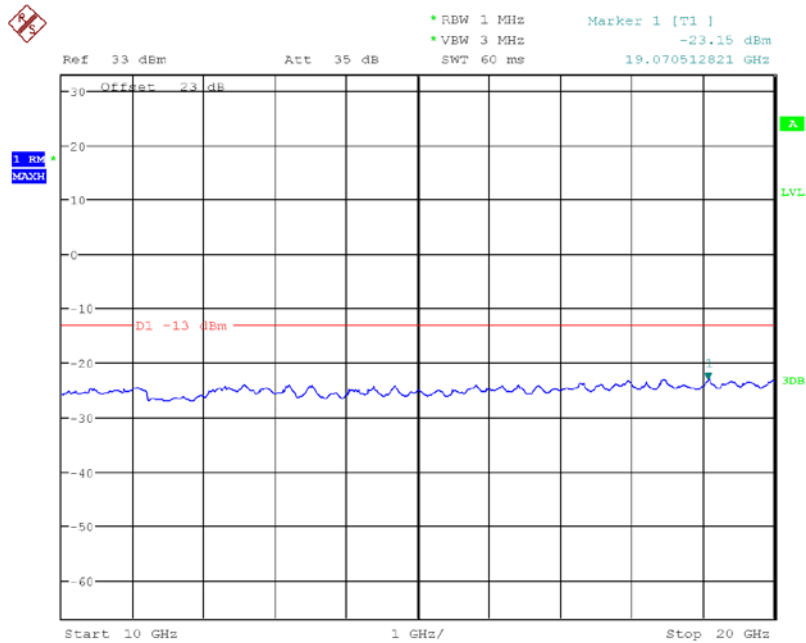


Date: 7.AUG.2018 11:49:04

Band4-Low Channel-5MHz Bandwidth-1GHz to 10GHz

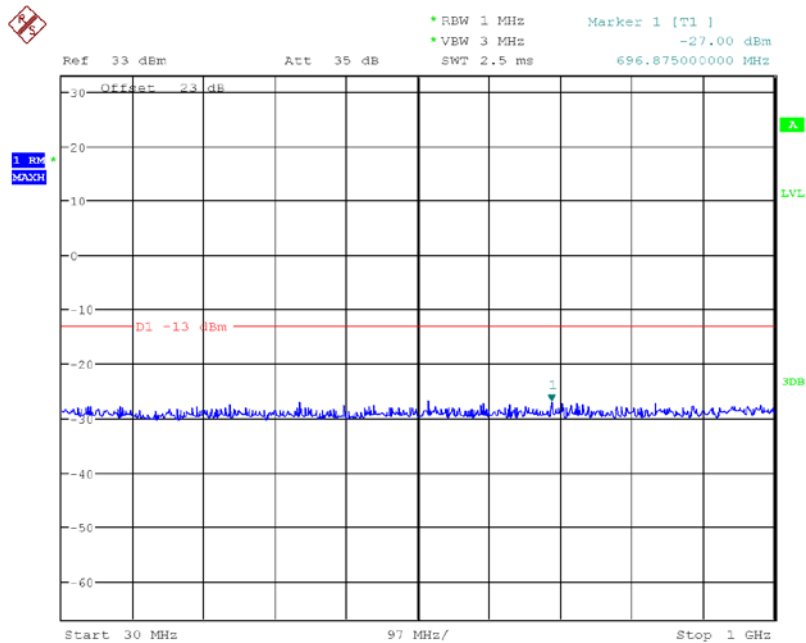
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 7.AUG.2018 11:49:24

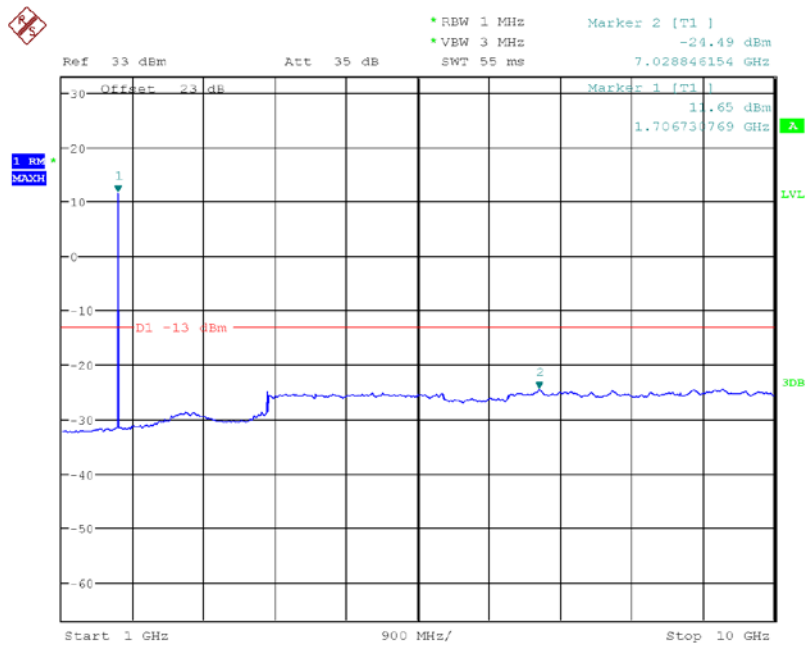
Band4-Low Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:51:25

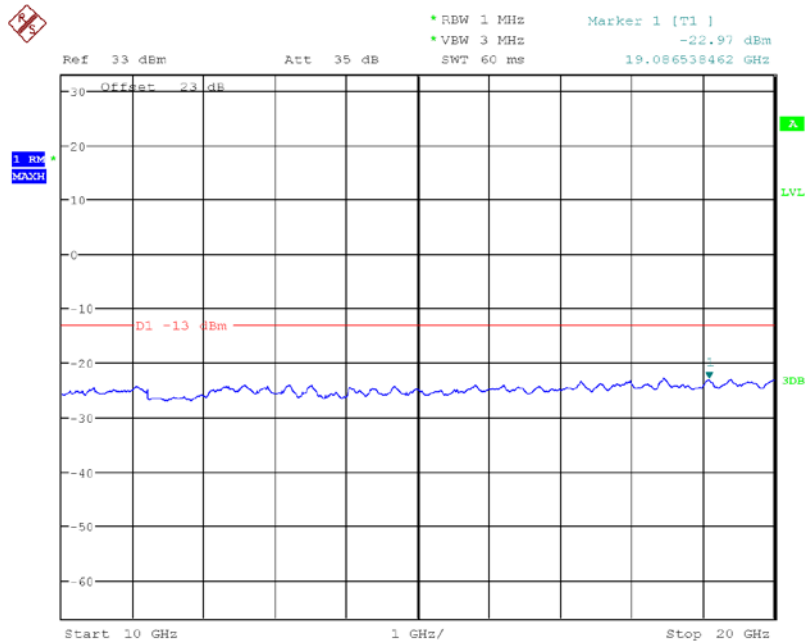
Band4-Low Channel-10MHz Bandwidth-30MHz to 1GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:50:56

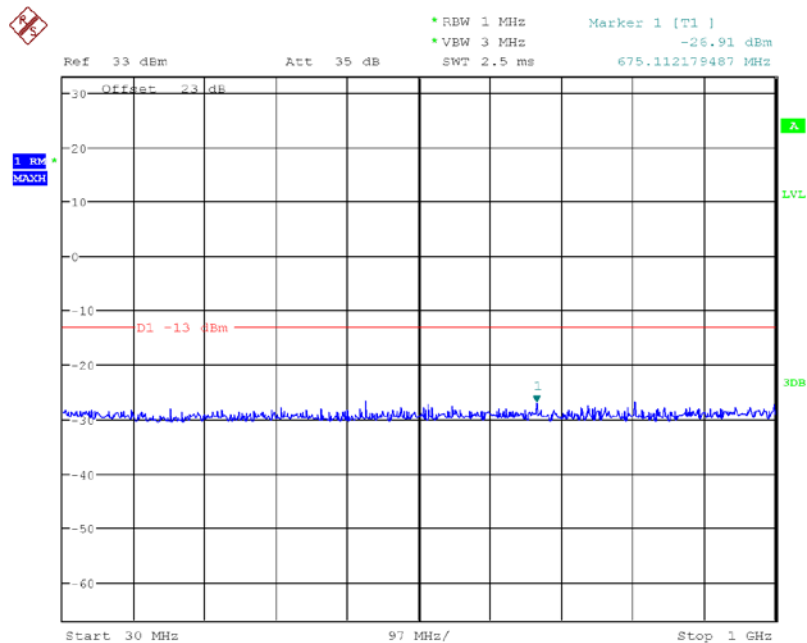
Band4-Low Channel-10MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:50:12

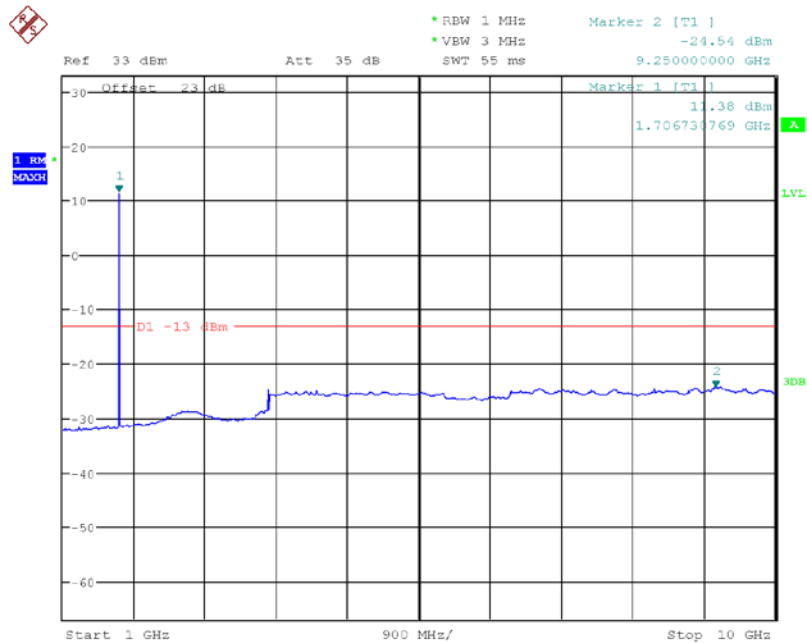
Band4-Low Channel-10MHz Bandwidth-10GHz to 20GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:51:39

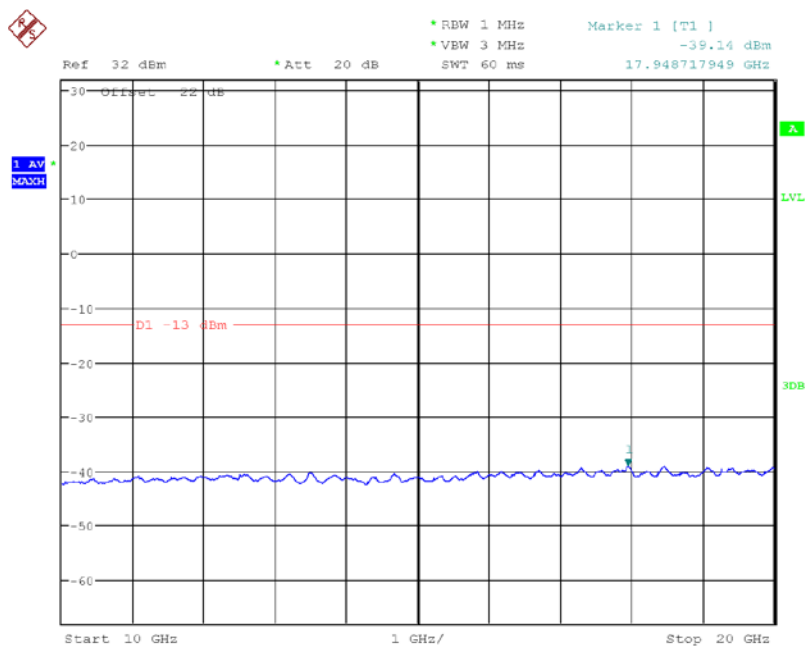
Band4-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 7.AUG.2018 11:59:08

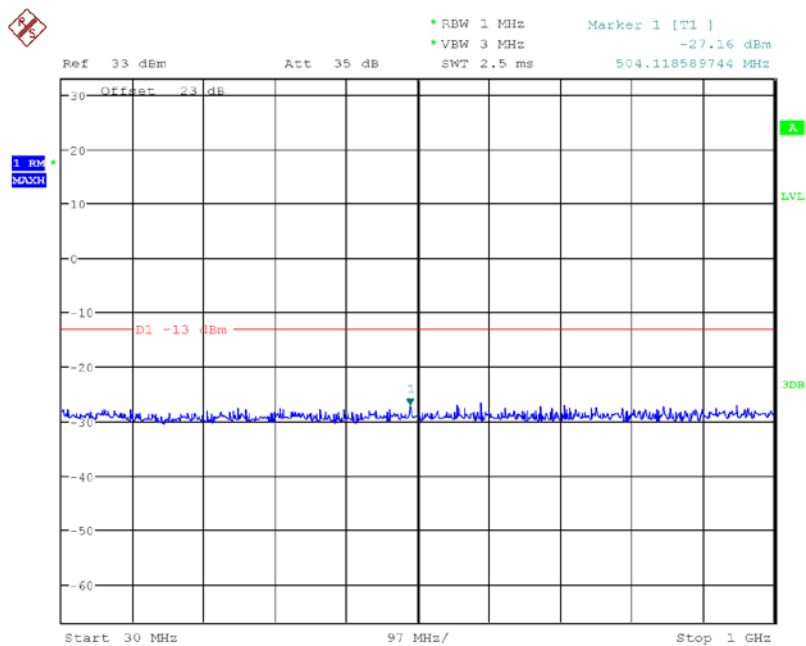
Band4-Low Channel-15MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.

Report No.:B18W50279



Date: 8.AUG.2018 15:34:16

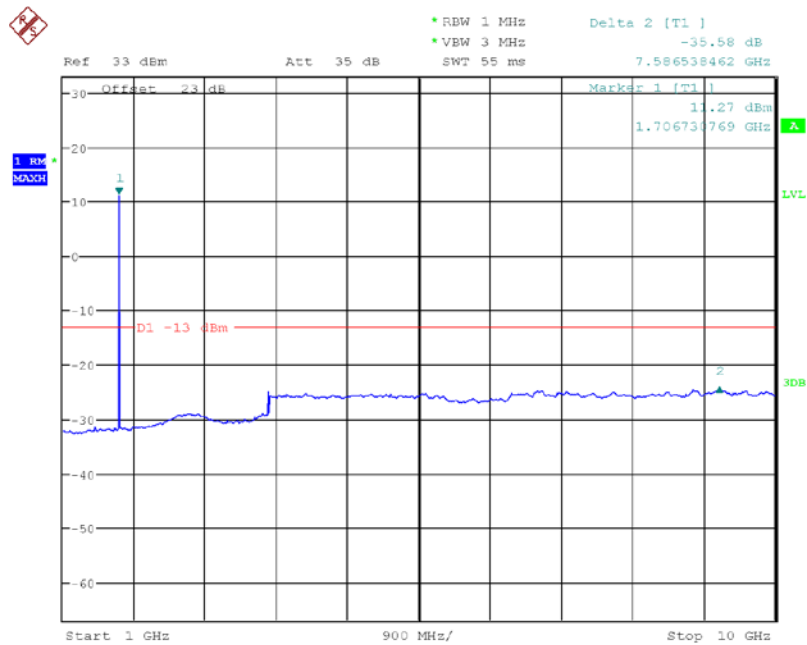
Band4-Low Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 7.AUG.2018 11:52:01

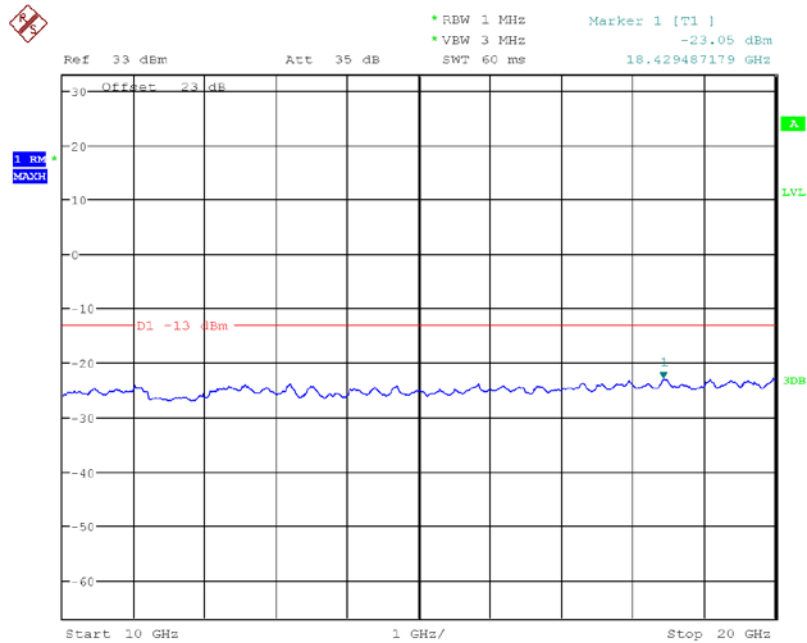
Band4-Low Channel-20MHz Bandwidth-30MHz to 1GHz

Report No.:B18W50279



Date: 7.AUG.2018 11:59:25

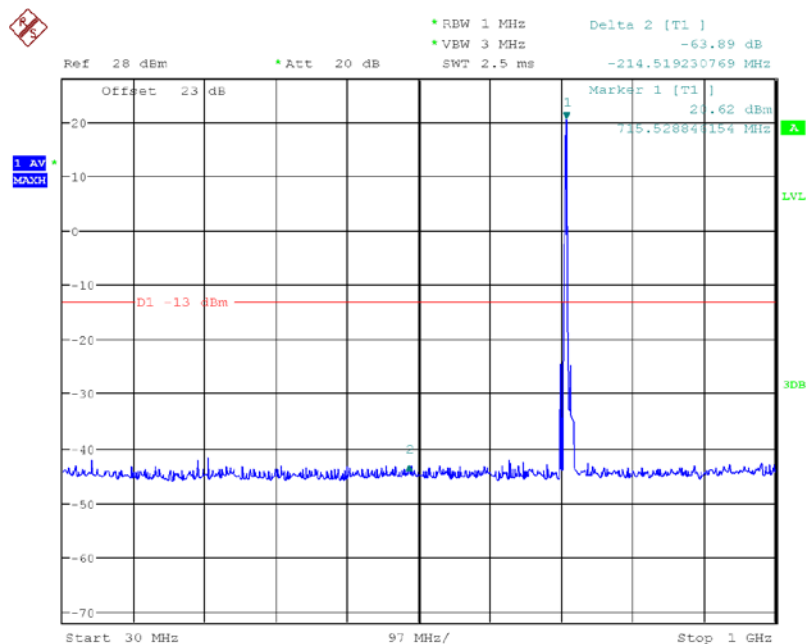
Band4-Low Channel-20MHz Bandwidth-1GHz to 10GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 11:57:03

Band4-Low Channel-20MHz Bandwidth-10GHz to 20GHz

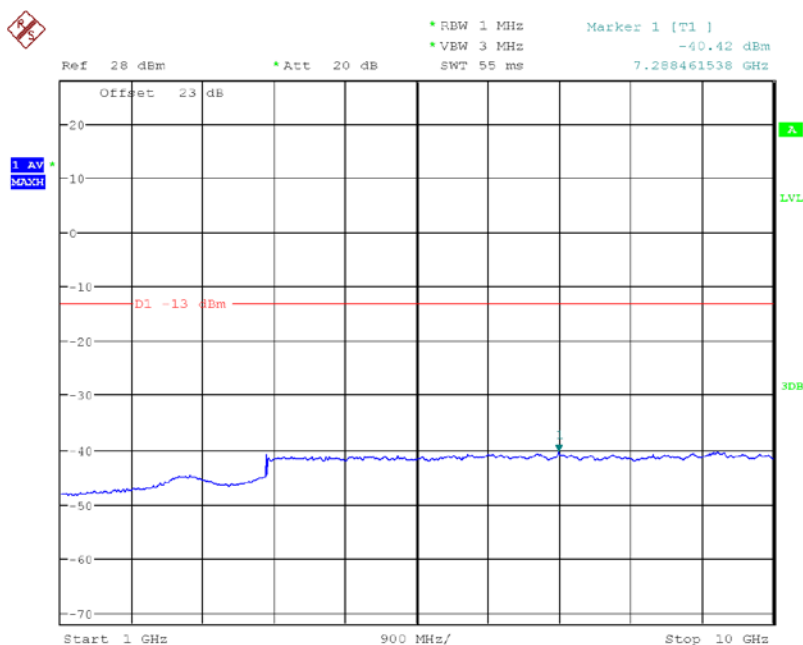
5.3.11 CAT-M B12 Conducted Spurious Emission Results



Date: 7.AUG.2018 15:22:01

Band12-High Channel-1.4MHz Bandwidth-30MHz to 1GHz

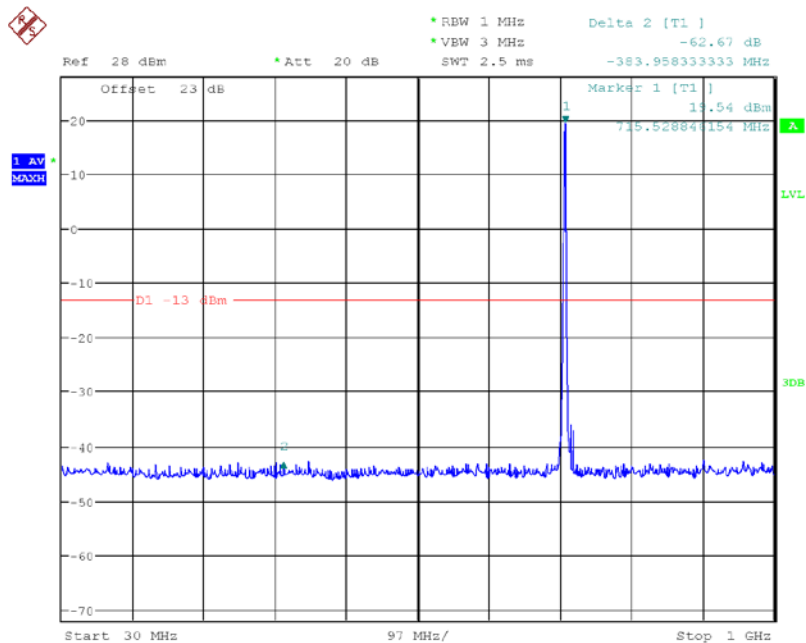
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:20:50

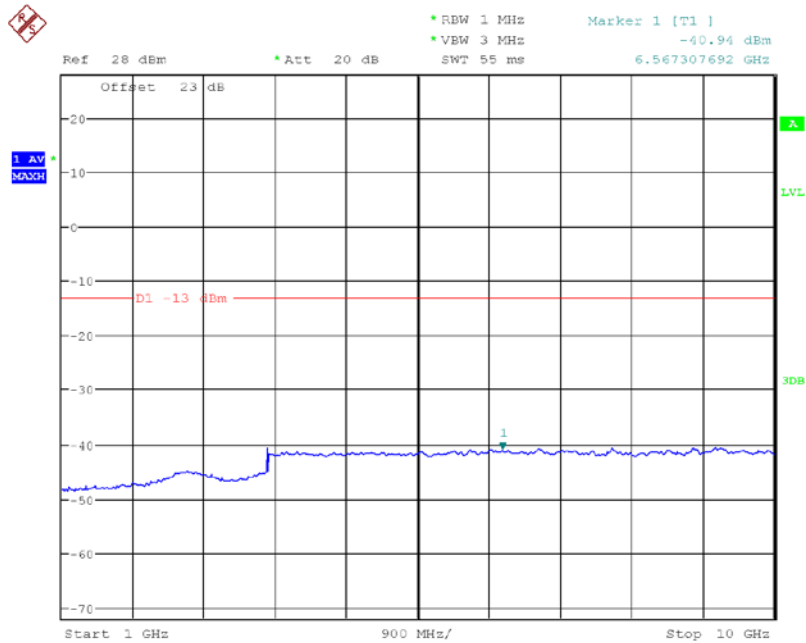
Band12-High Channel-1.4MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 7.AUG.2018 15:22:23

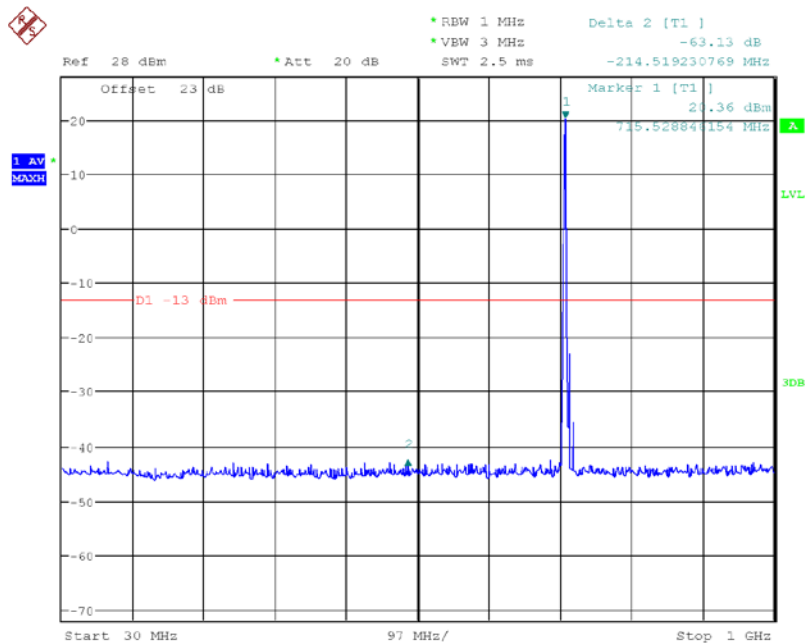
Band12-High Channel-3MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:21:02

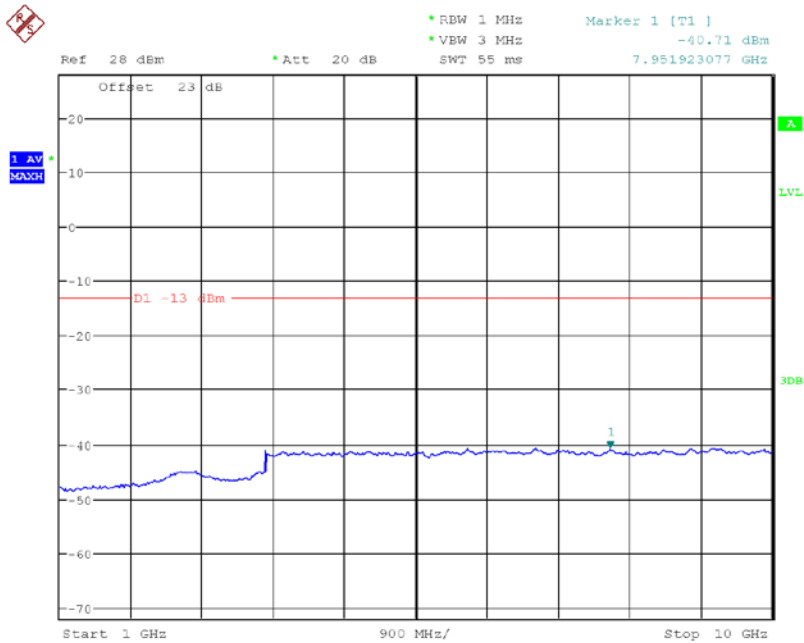
Band12-High Channel-3MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 7.AUG.2018 15:22:48

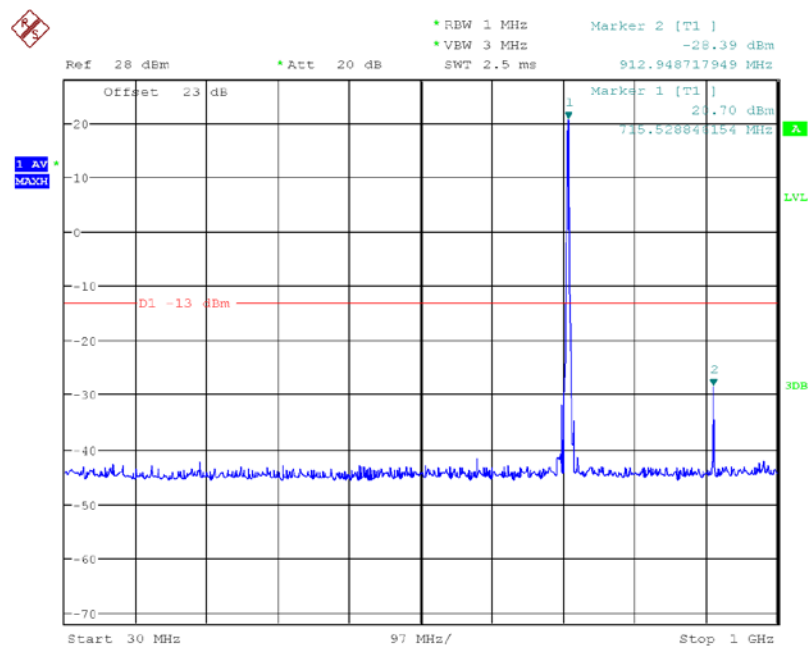
Band12-High Channel-5MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:21:13

Band12-High Channel-5MHz Bandwidth-1GHz to 10GHz

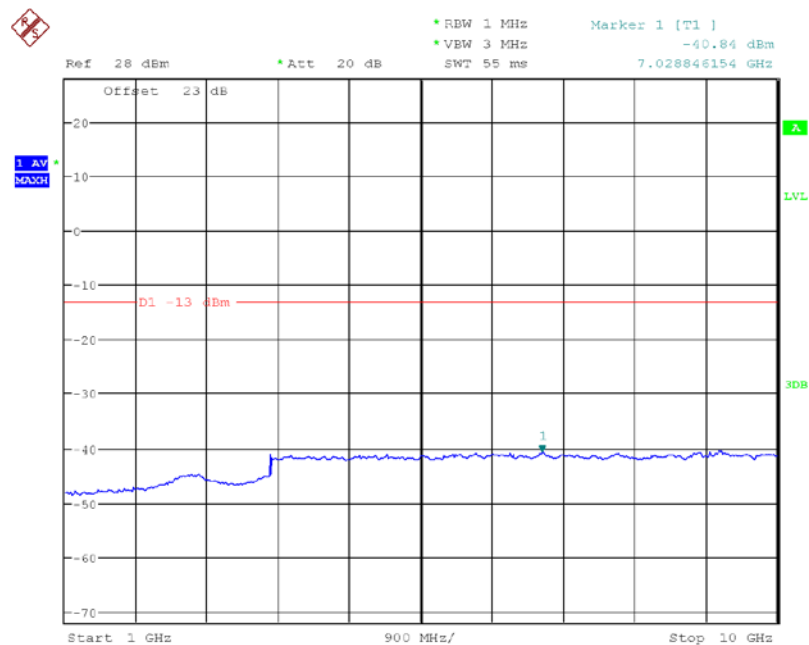
Report No.:B18W50279



Date: 7.AUG.2018 15:23:28

Band12-High Channel-10MHz Bandwidth-30MHz to 1GHz

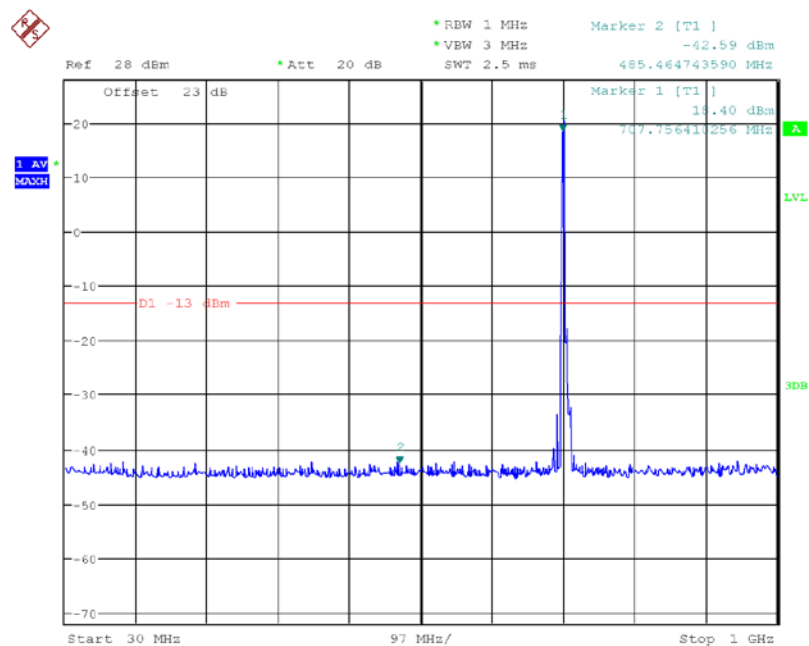
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:21:29

Band12-High Channel-10MHz Bandwidth-1GHz to 10GHz

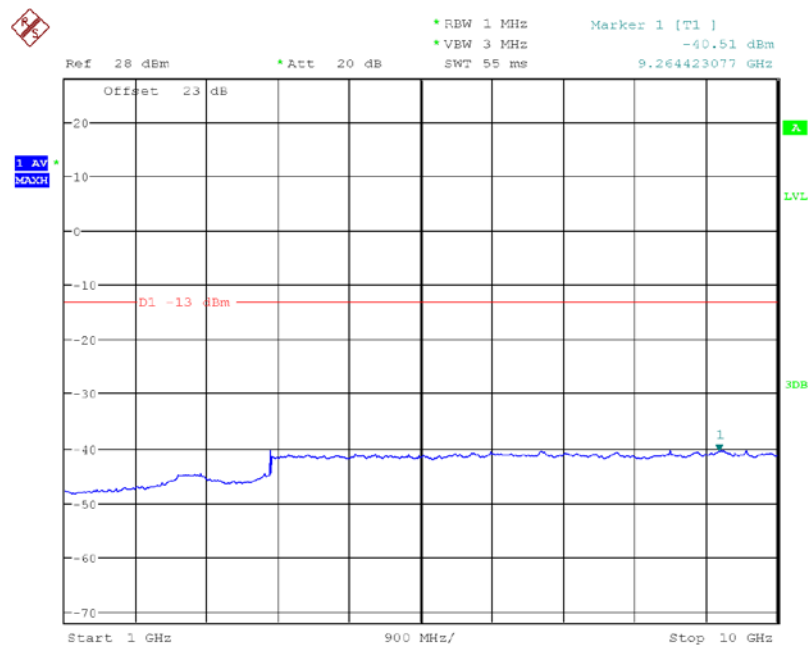
Report No.:B18W50279



Date: 7.AUG.2018 15:11:52

Band12-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz

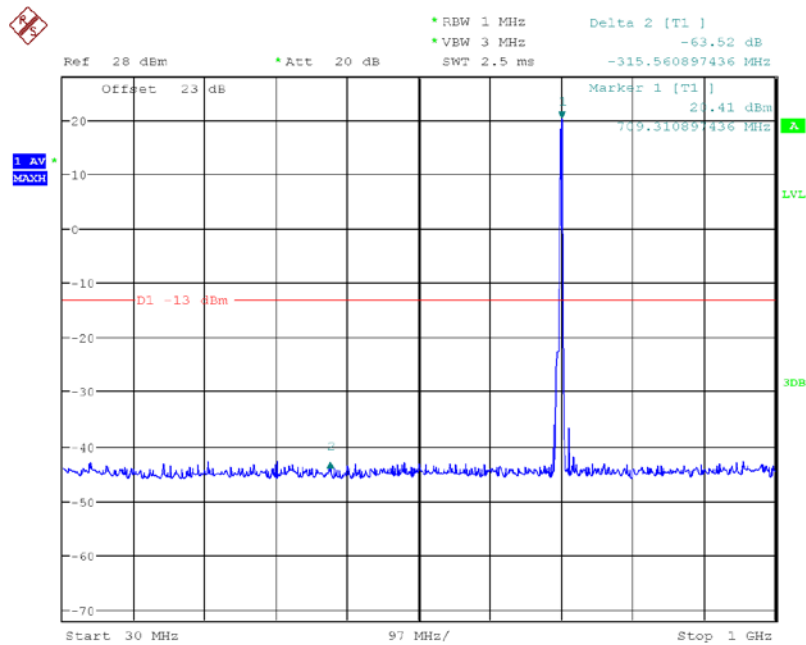
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:12:42

Band12-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

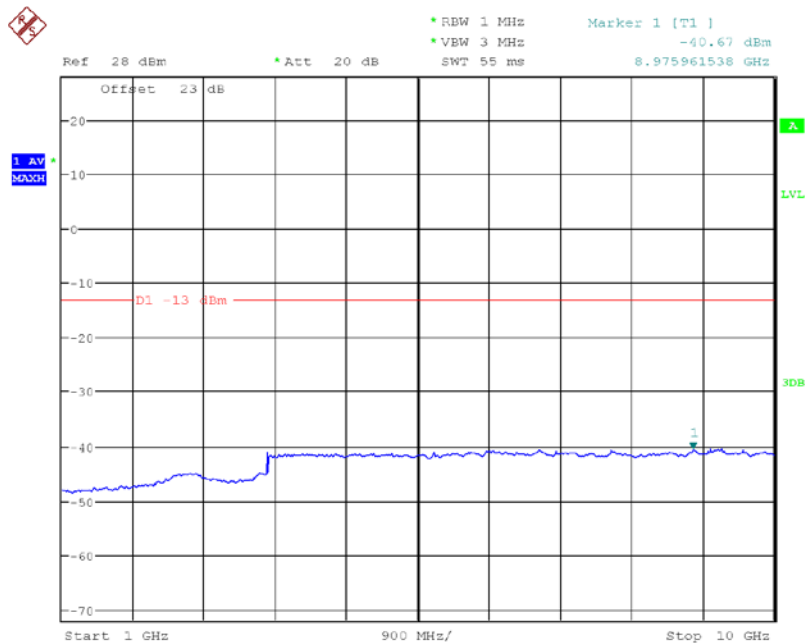
Report No.:B18W50279



Date: 7.AUG.2018 15:14:41

Band12-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

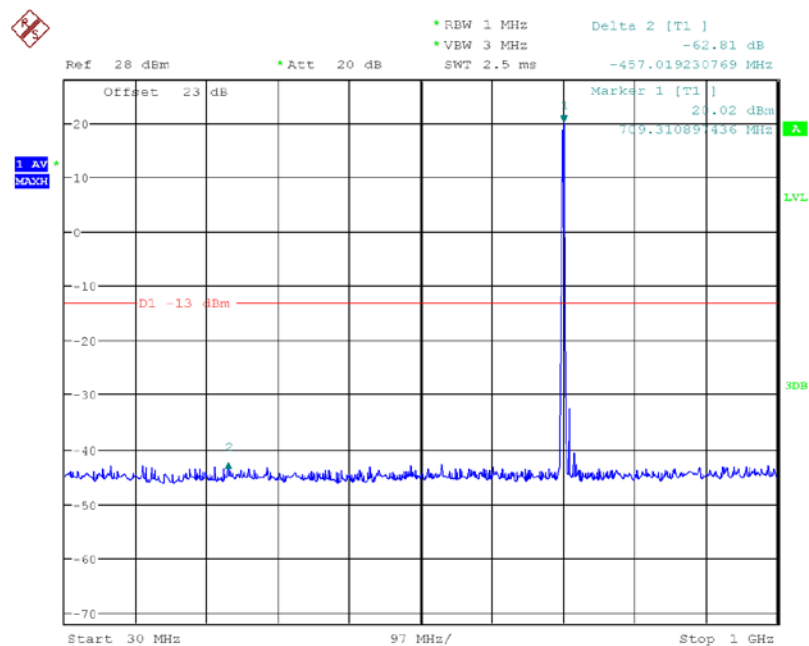
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:13:13

Band12-Middle Channel-3MHz Bandwidth-1GHz to 10GHz

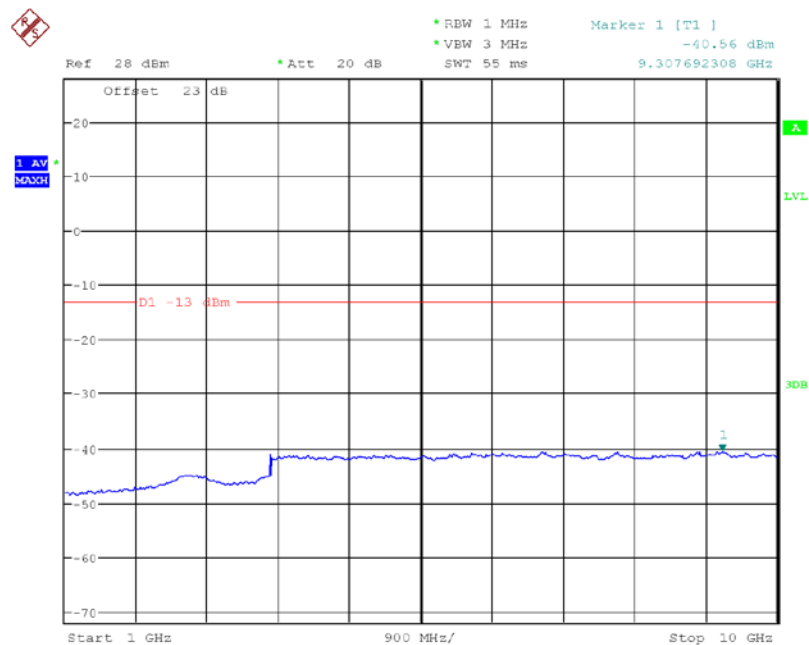
Report No.:B18W50279



Date: 7.AUG.2018 15:15:00

Band12-Middle Channel-5MHz Bandwidth-30MHz to 1GHz

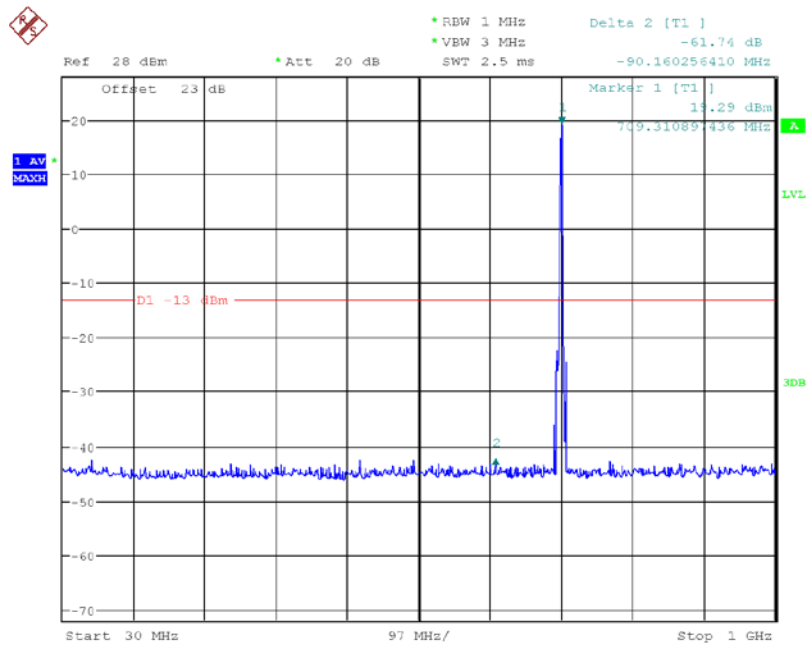
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:13:29

Band12-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

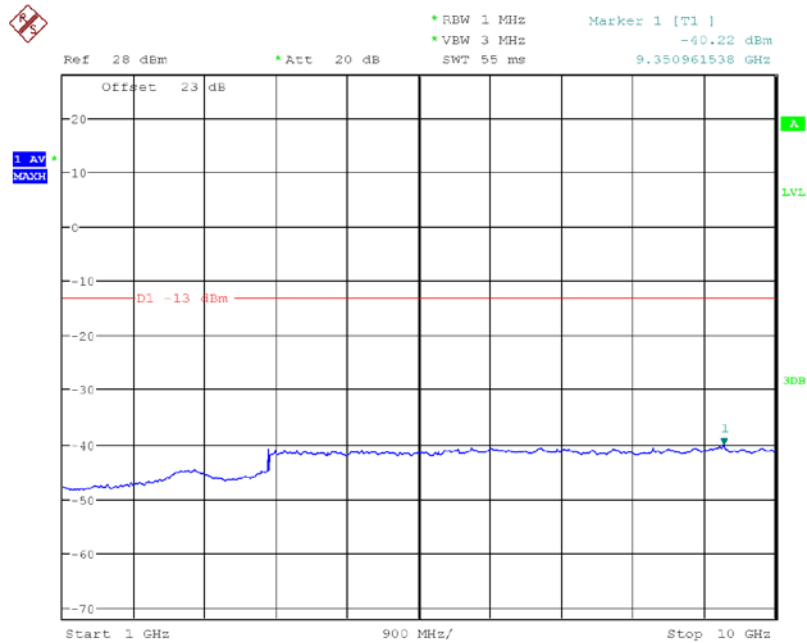
Report No.:B18W50279



Date: 7.AUG.2018 15:15:19

Band12-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

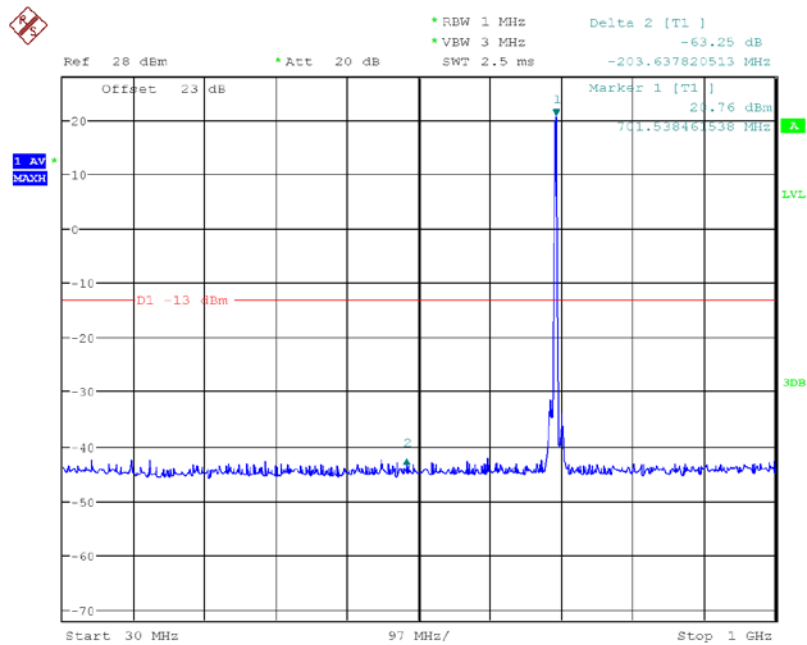
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:14:06

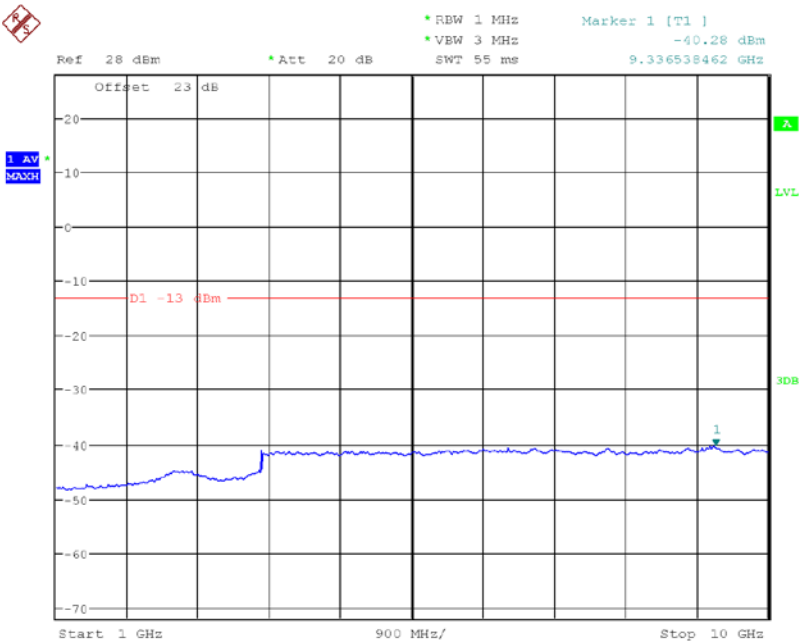
Band12-Middle Channel-10MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 7.AUG.2018 15:16:55

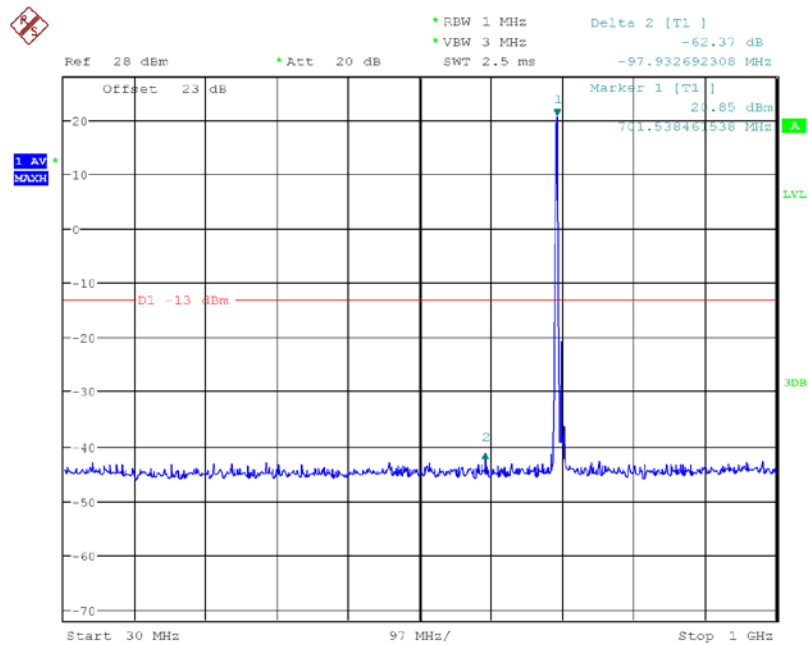
Band12-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:19:02

Band12-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

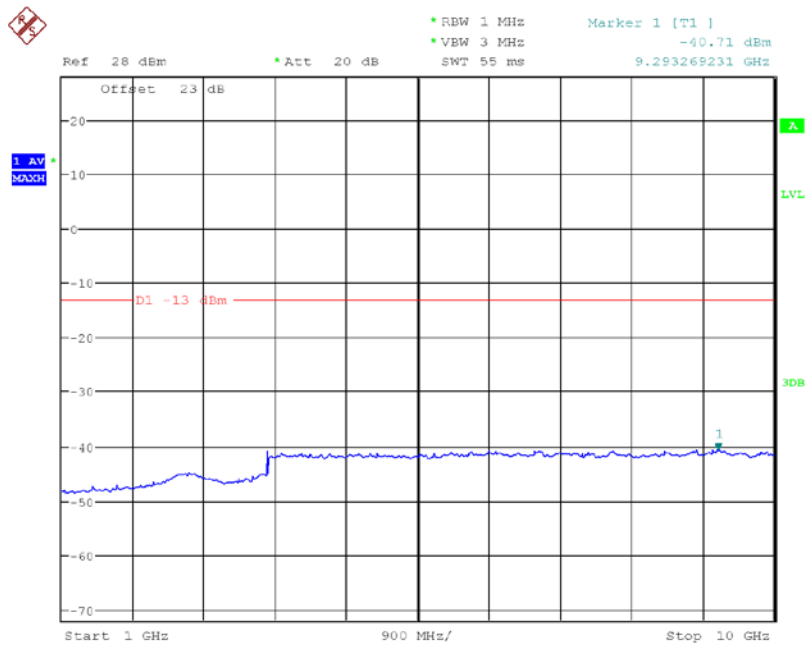
Report No.:B18W50279



Date: 7.AUG.2018 15:17:21

Band12-Low Channel-3MHz Bandwidth-30MHz to 1GHz

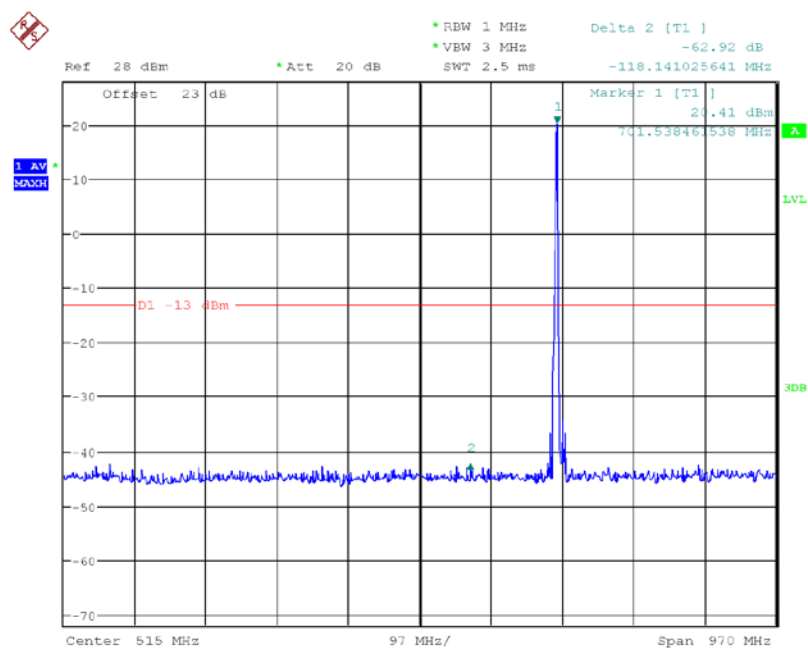
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:19:13

Band12-Low Channel-3MHz Bandwidth-1GHz to 10GHz

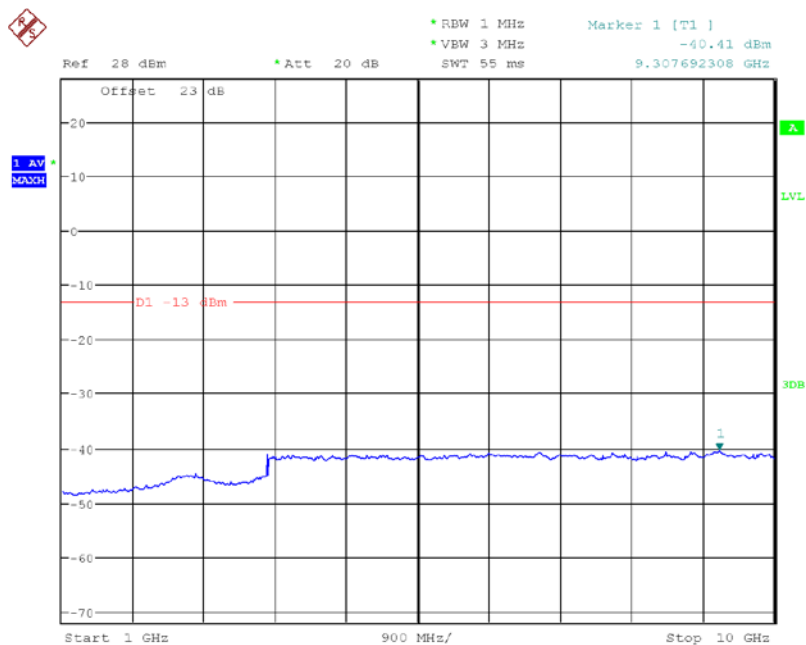
Report No.:B18W50279



Date: 7.AUG.2018 15:17:46

Band12-Low Channel-5MHz Bandwidth-30MHz to 1GHz

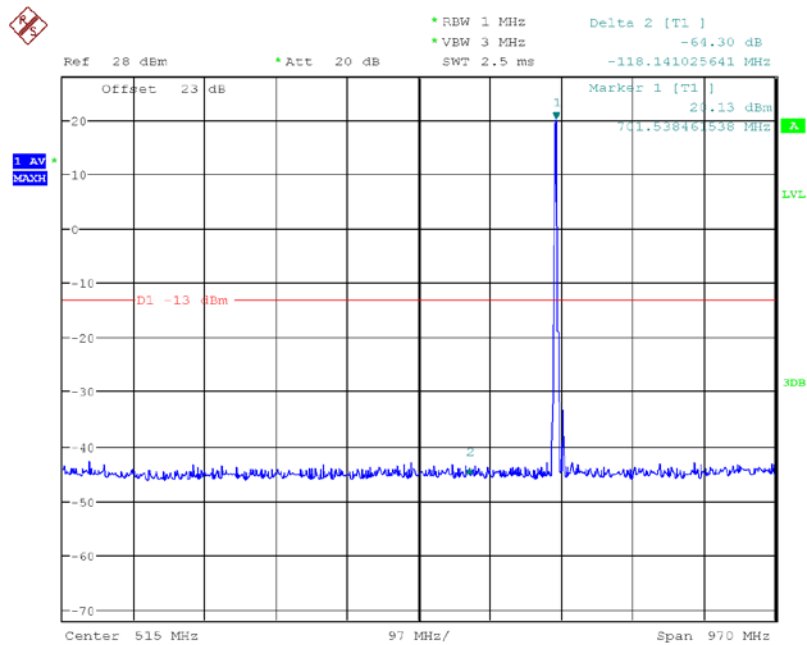
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 15:19:28

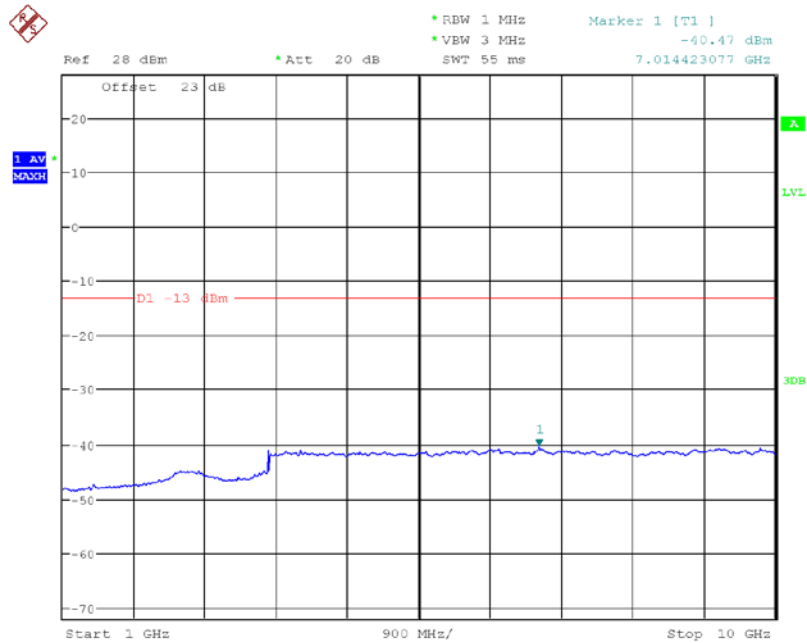
Band12-Low Channel-5MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 7.AUG.2018 15:18:00

Band12-Low Channel-10MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.

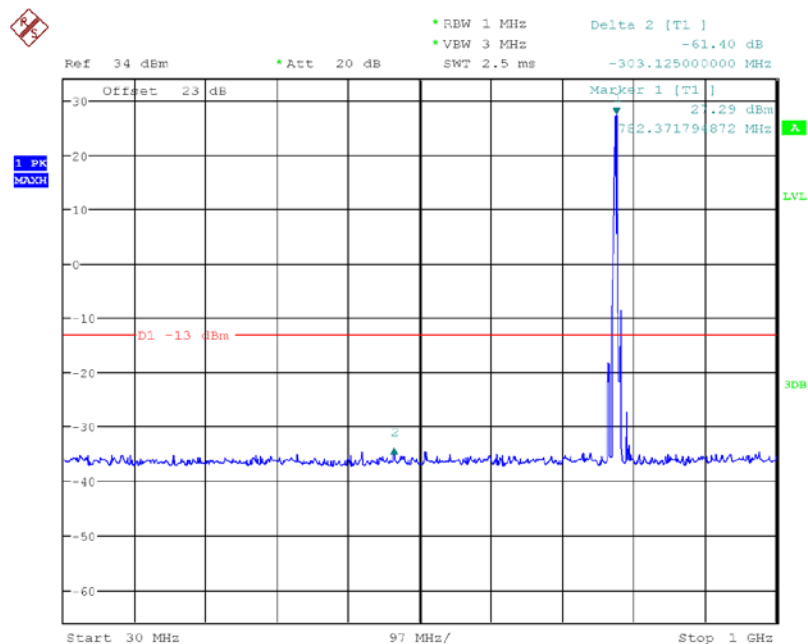


Date: 7.AUG.2018 15:19:40

Band12-Low Channel-10MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279

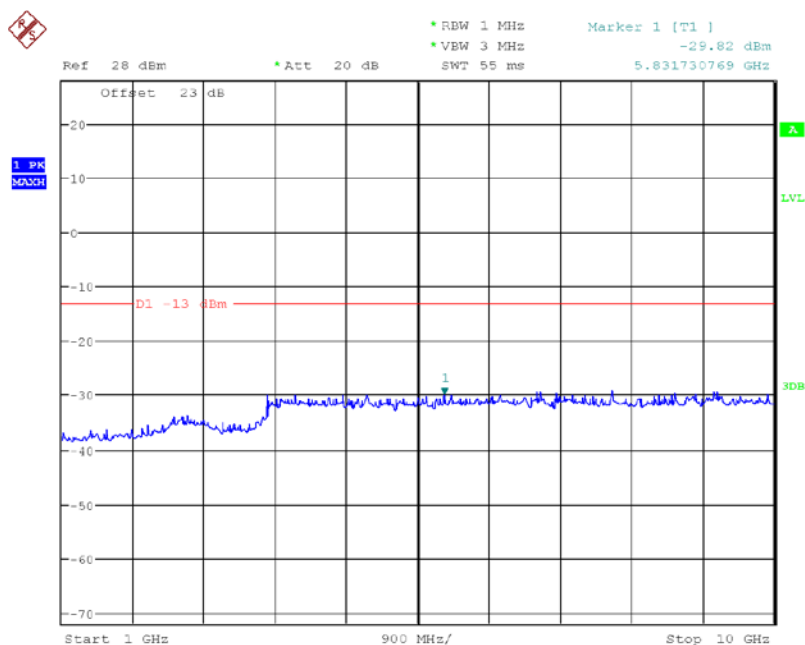
5.3.12 CAT-M B13 Conducted Spurious Emission Results



Date: 7.AUG.2018 16:26:36

Band13-Middle Channel-5MHz Bandwidth-30MHz to 1GHz

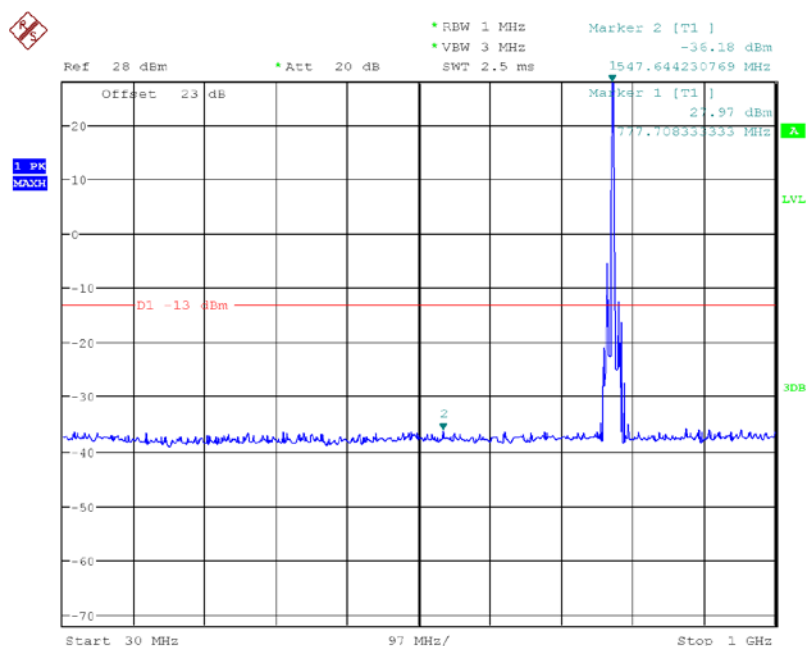
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 16:25:39

Band13-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

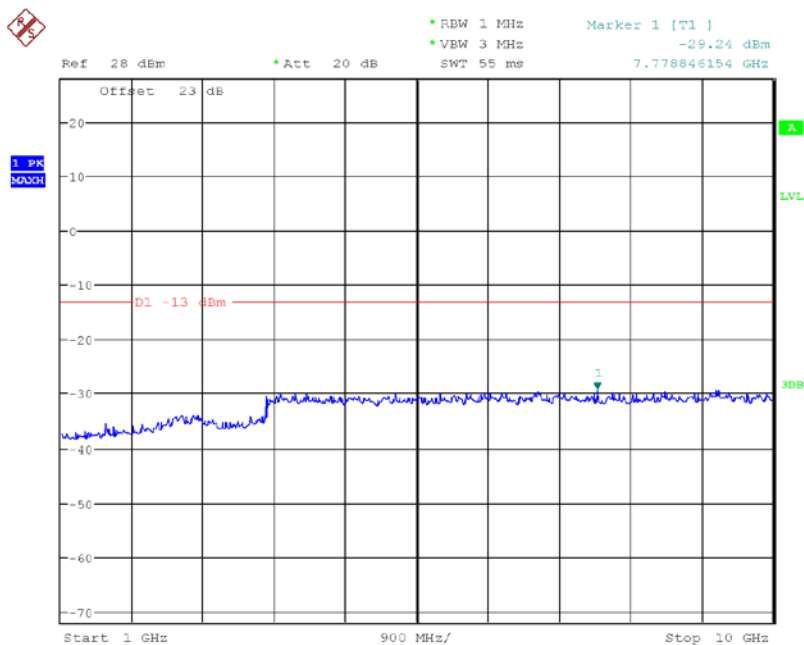
Report No.:B18W50279



Date: 7.AUG.2018 16:24:40

Band13-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

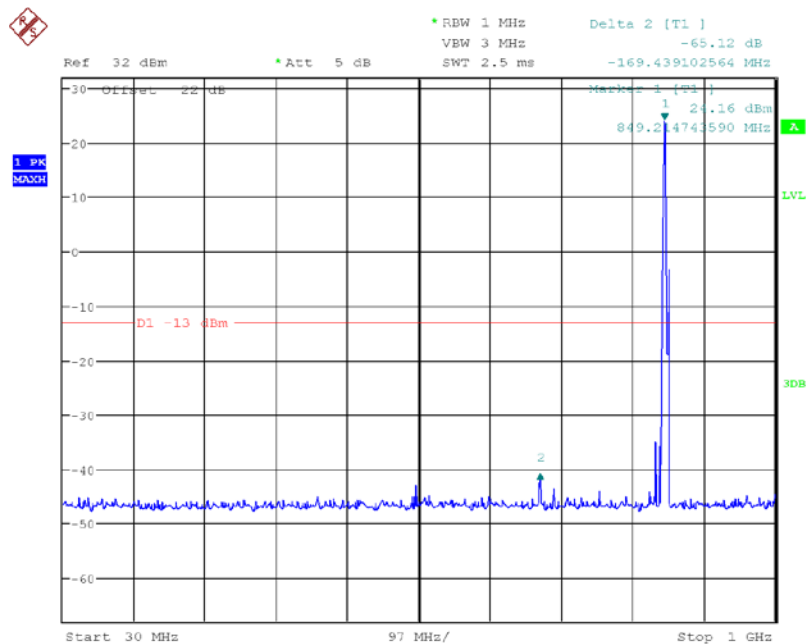
Note: The strong emission shown in each case is the carrier signal.



Date: 7.AUG.2018 16:25:27

Band13-Middle Channel-10MHz Bandwidth-1GHz to 10GHz

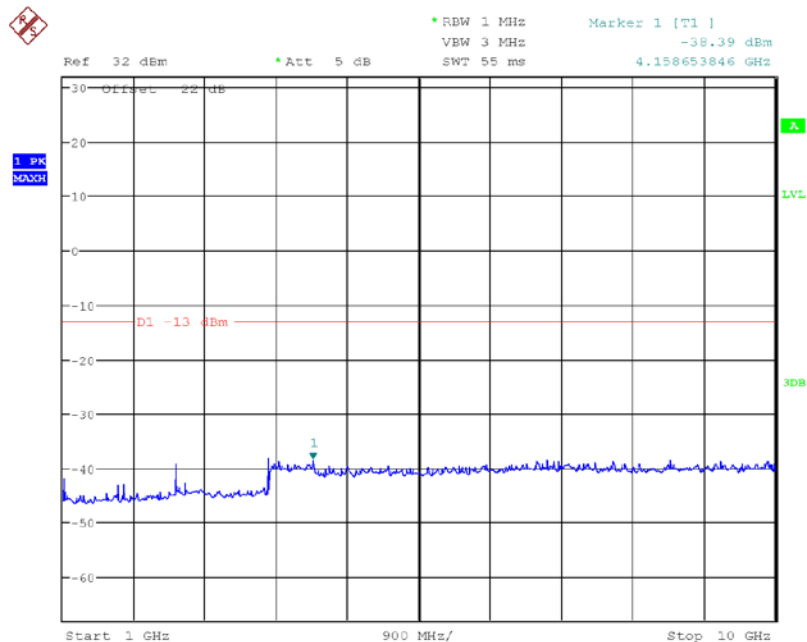
5.3.13 CAT-M B26 Conducted Spurious Emission Results



Date: 8.AUG.2018 10:21:55

Band26-High Channel-1.4MHz Bandwidth-30MHz to 1GHz

Note: The strong emission shown in each case is the carrier signal.

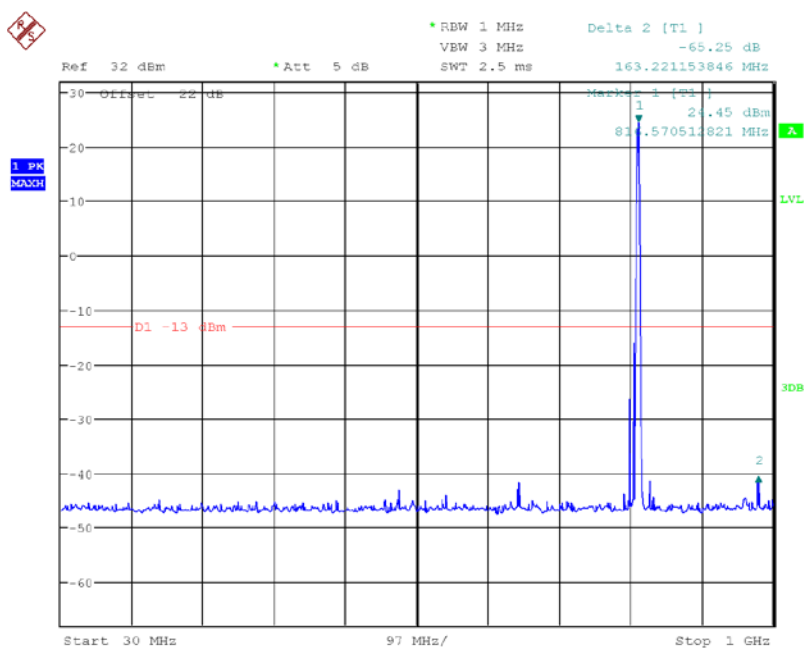


Date: 8.AUG.2018 10:21:34

Band26-High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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

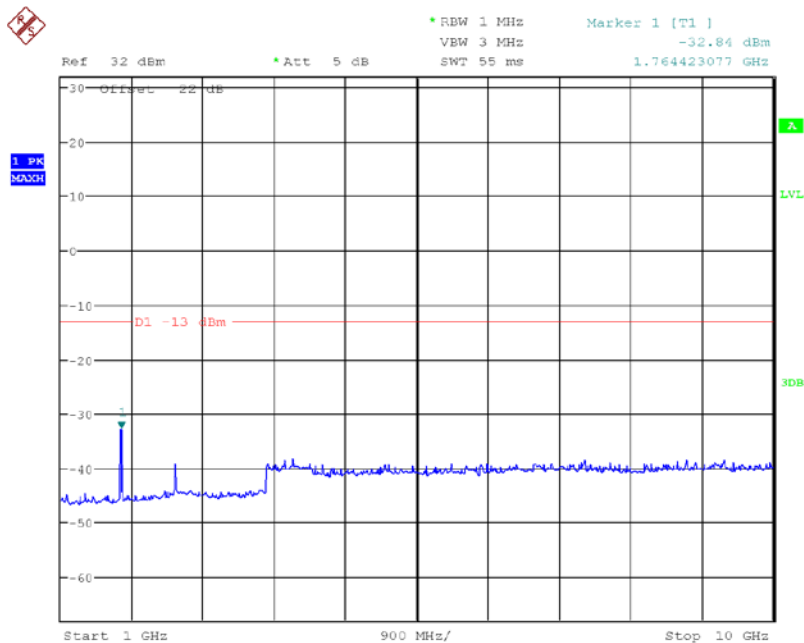
Report No.:B18W50279



Date: 8.AUG.2018 10:22:31

Band26-High Channel-3MHz Bandwidth-30MHz to 1GHz

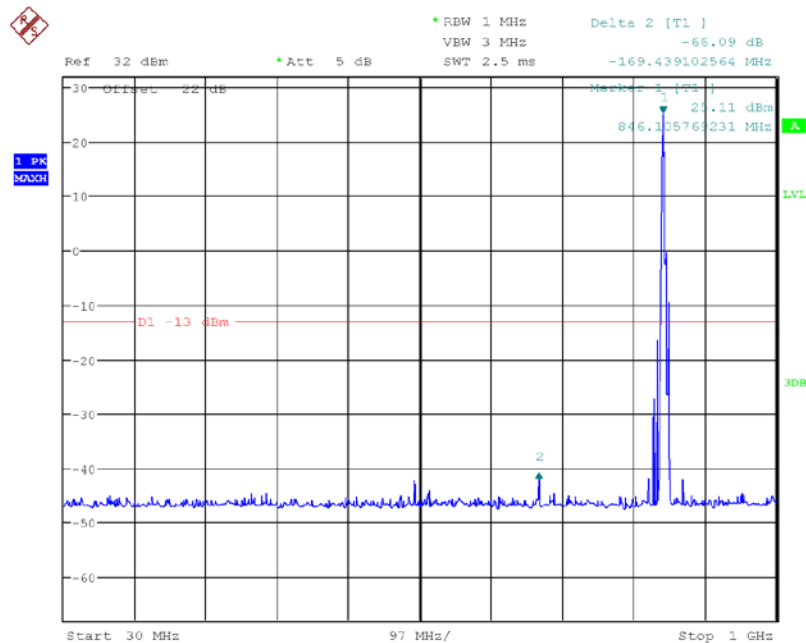
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:23:17

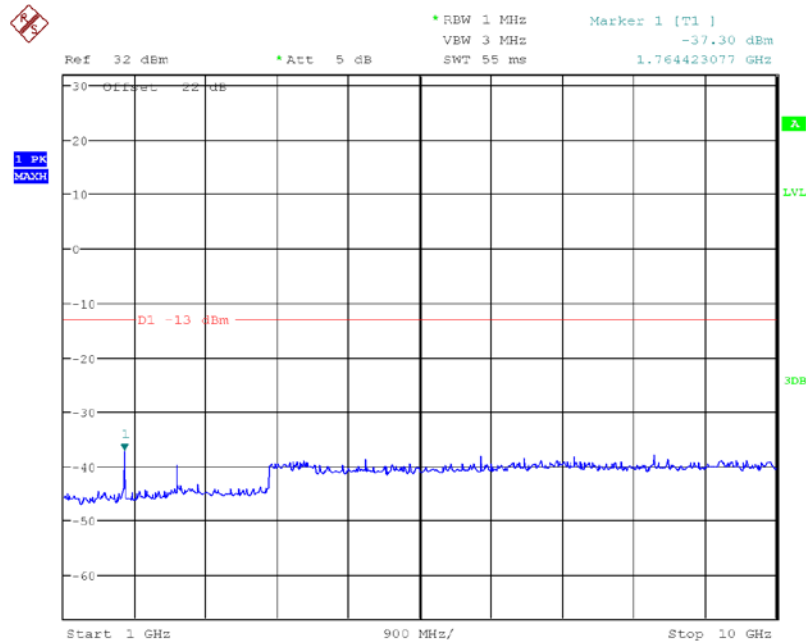
Band26-High Channel-3MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:26:05

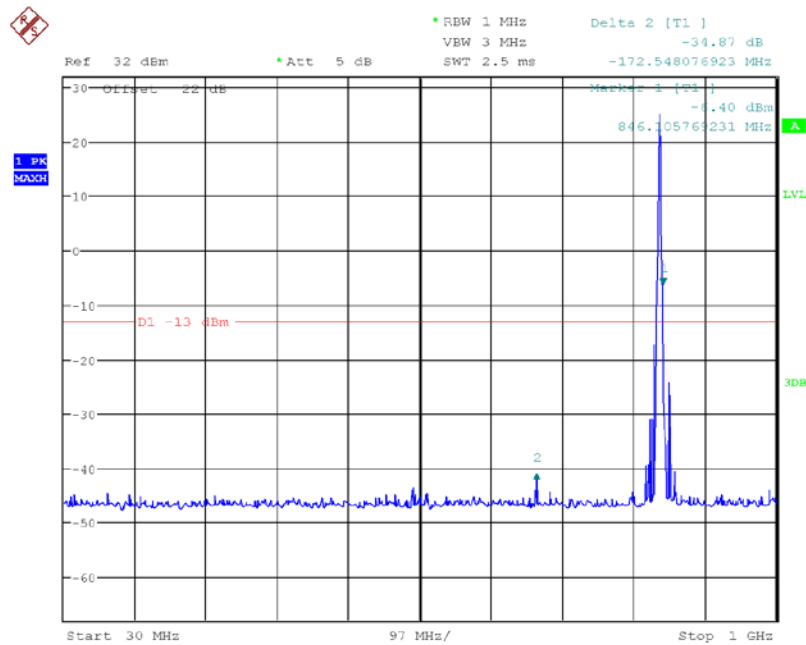
Band26-High Channel-5MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:24:22

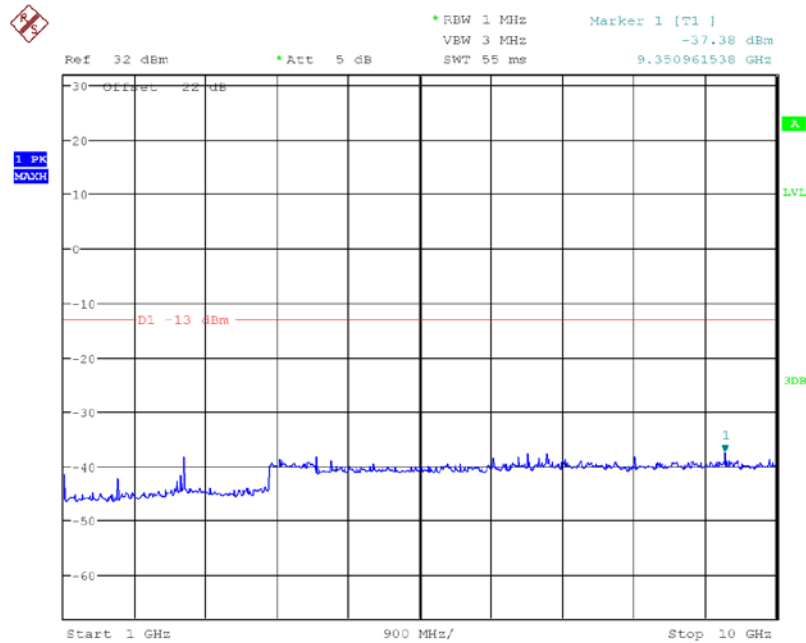
Band26-High Channel-5MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:27:23

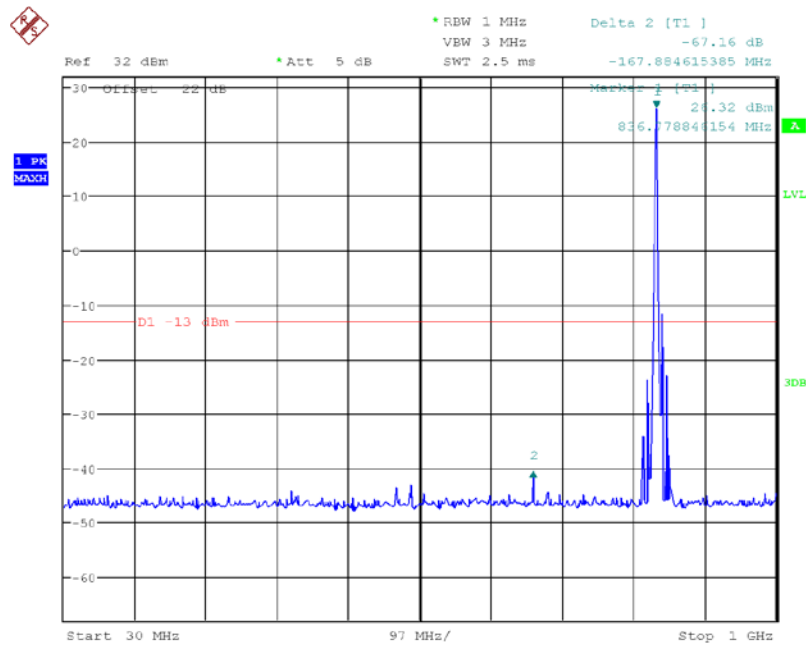
Band26-High Channel-10MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:28:06

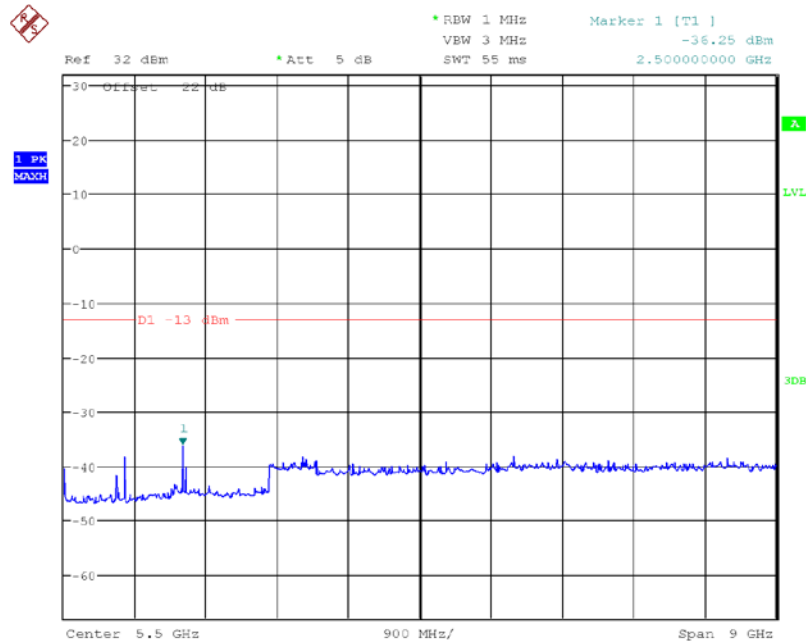
Band26-High Channel-10MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:29:43

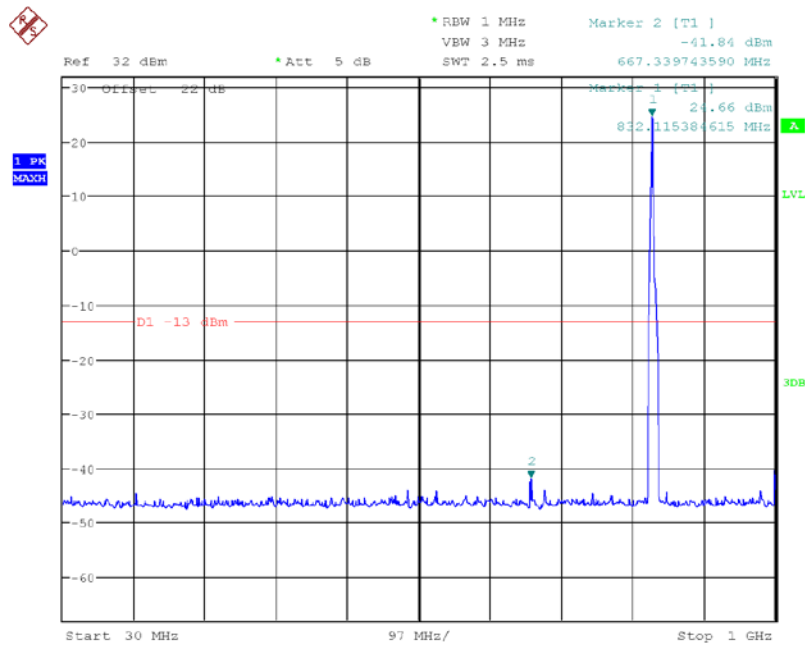
Band26-High Channel-15MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:29:16

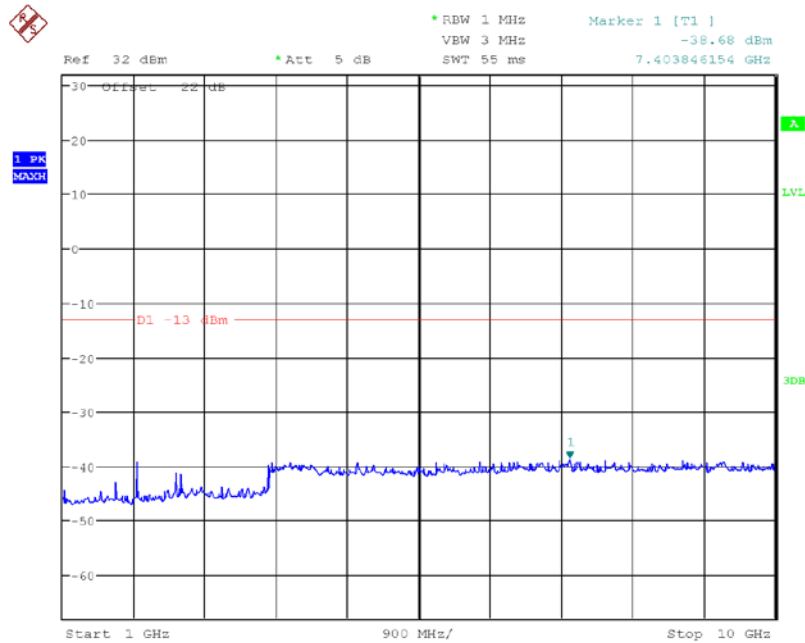
Band26-High Channel-15MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:00:34

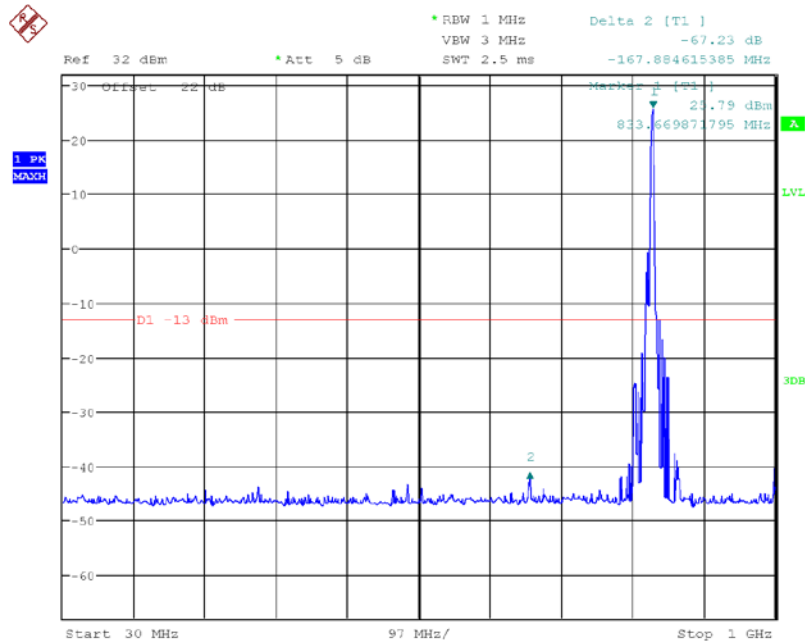
Band26-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:01:17

Band26-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

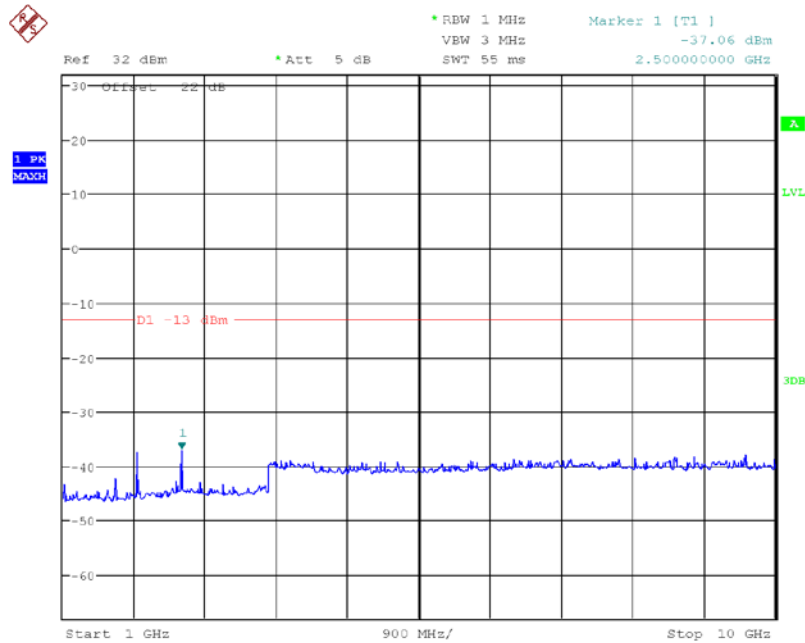
Report No.:B18W50279



Date: 8.AUG.2018 10:02:51

Band26-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

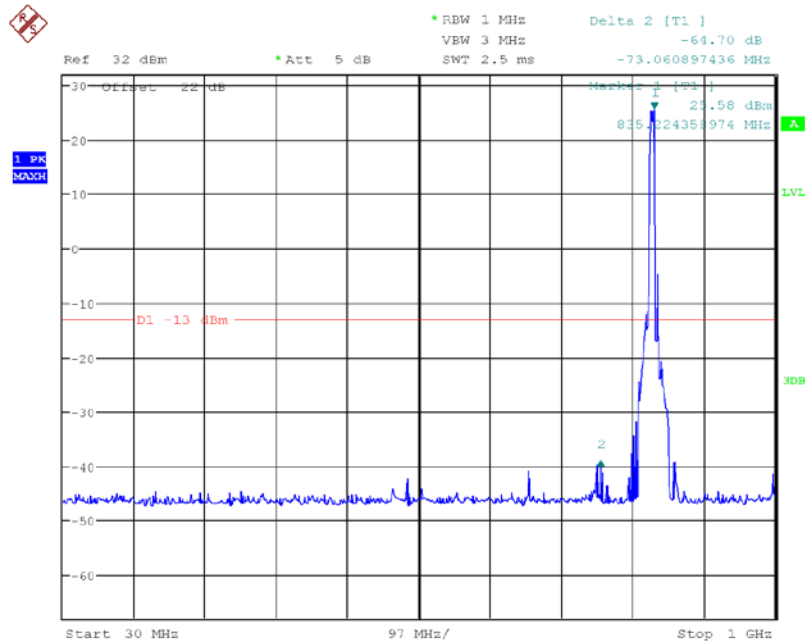
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:02:17

Band26-Middle Channel-3MHz Bandwidth-1GHz to 10GHz

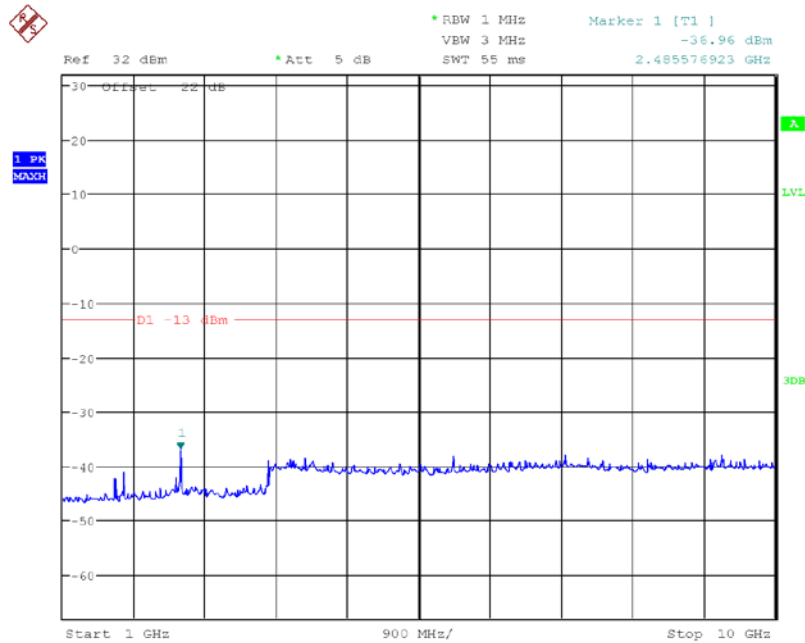
Report No.:B18W50279



Date: 8.AUG.2018 10:03:41

Band26-Middle Channel-5MHz Bandwidth-30MHz to 1GHz

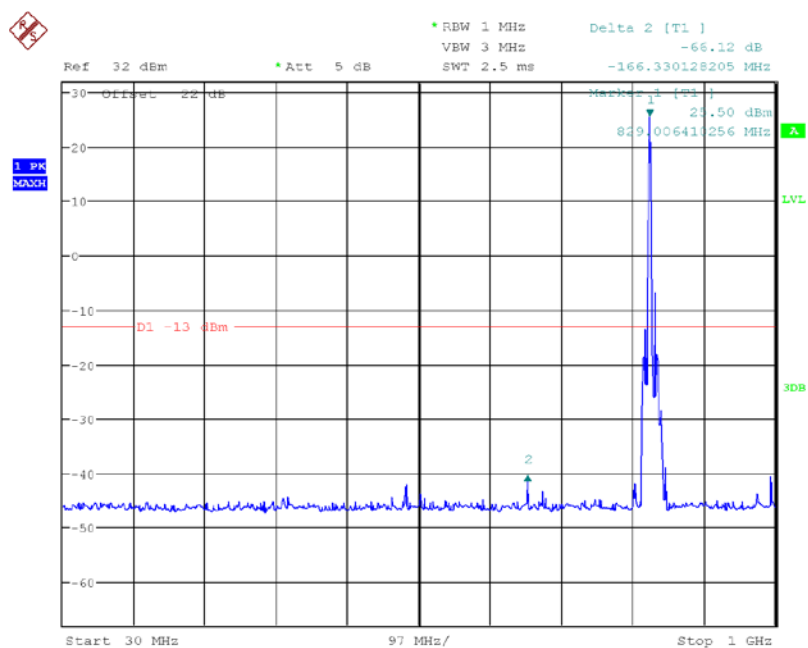
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:04:16

Band26-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

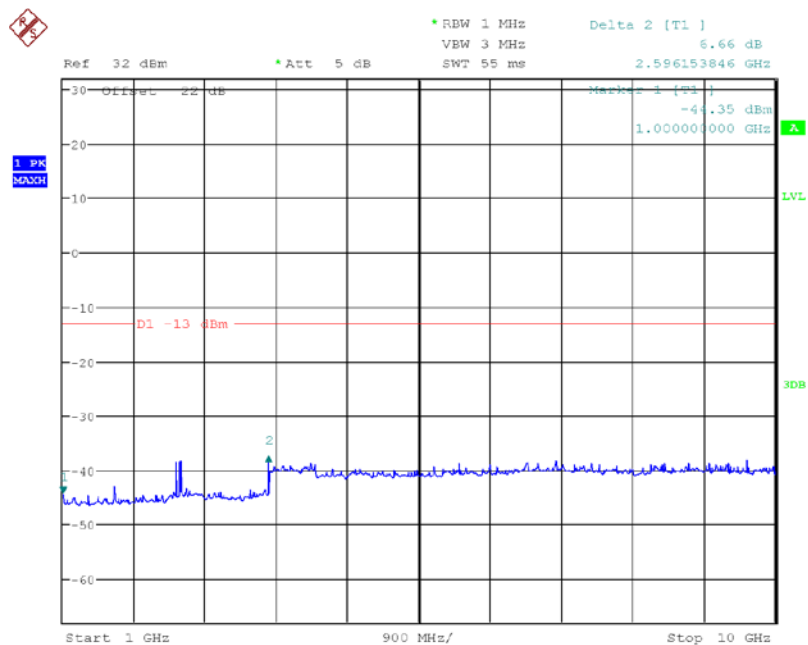
Report No.:B18W50279



Date: 8.AUG.2018 10:05:29

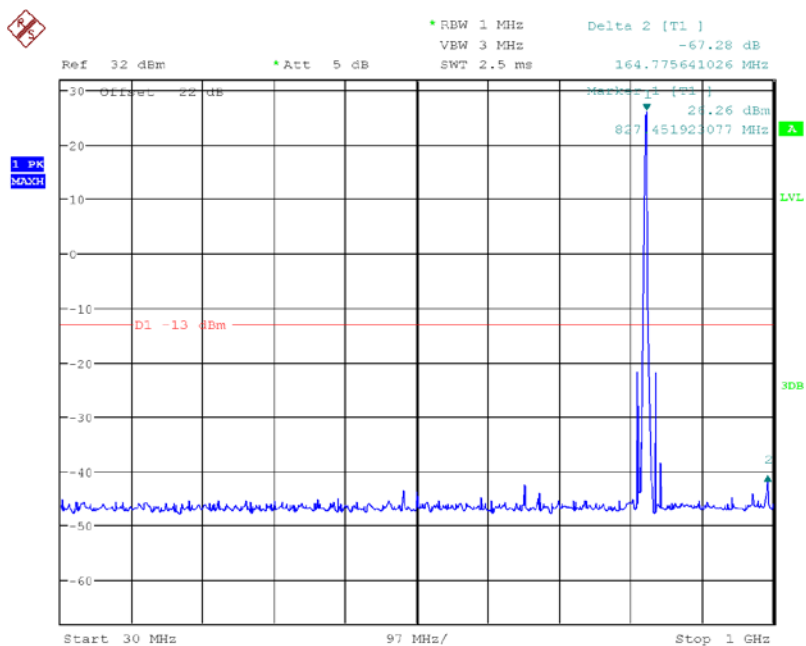
Band26-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:06:10

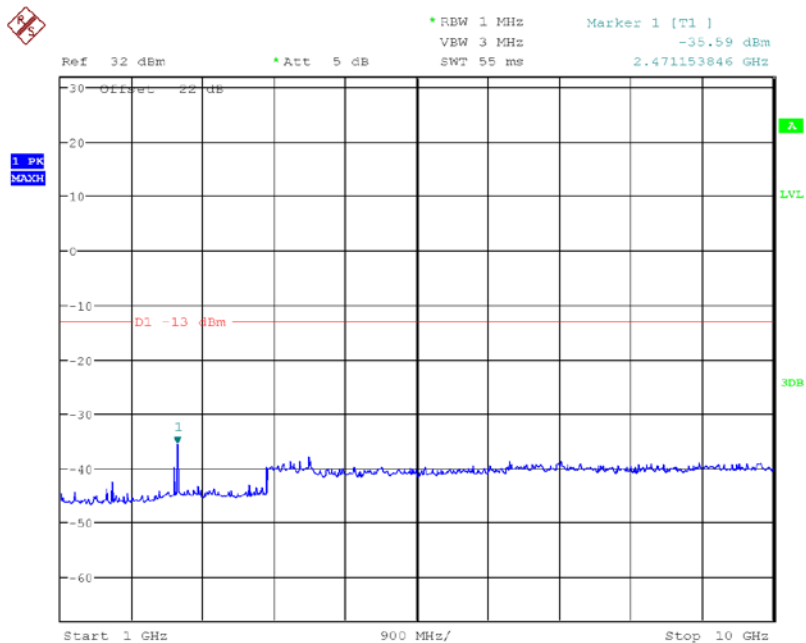
Band26-Middle Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 8.AUG.2018 10:07:09

Band26-Middle Channel-15MHz Bandwidth-30MHz to 1GHz

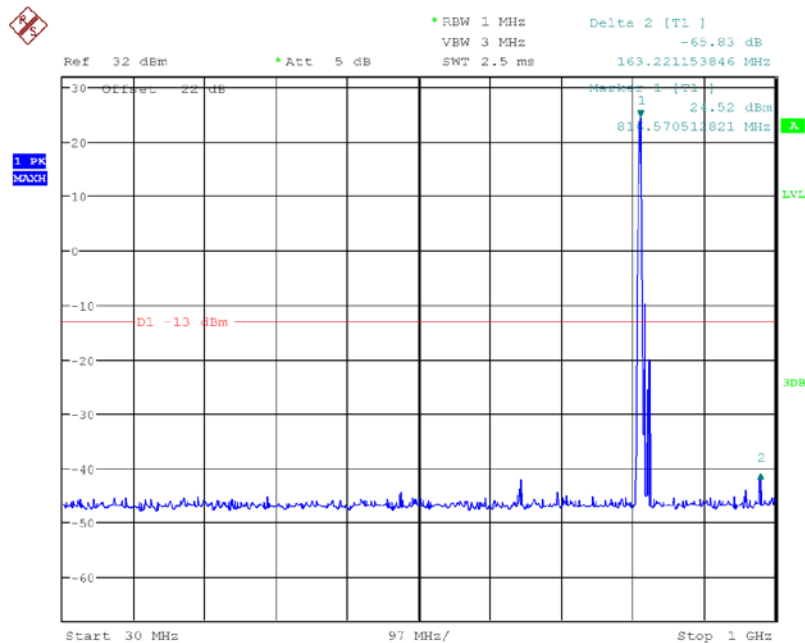
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:06:52

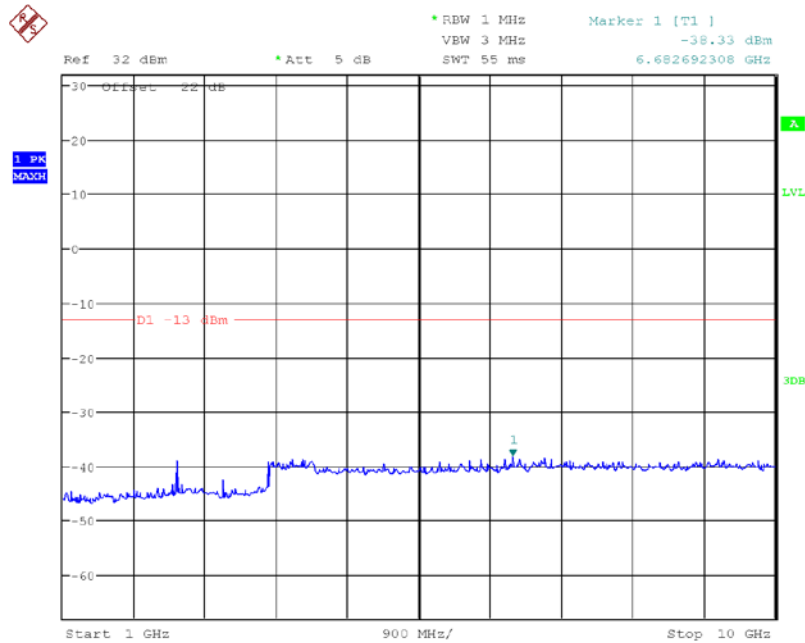
Band26-Middle Channel-15MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:10:32

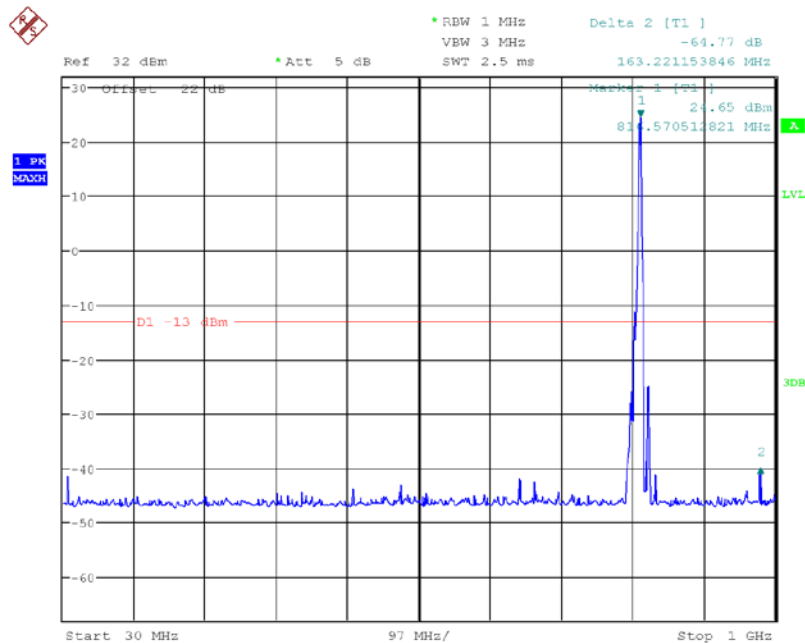
Band26-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:11:11

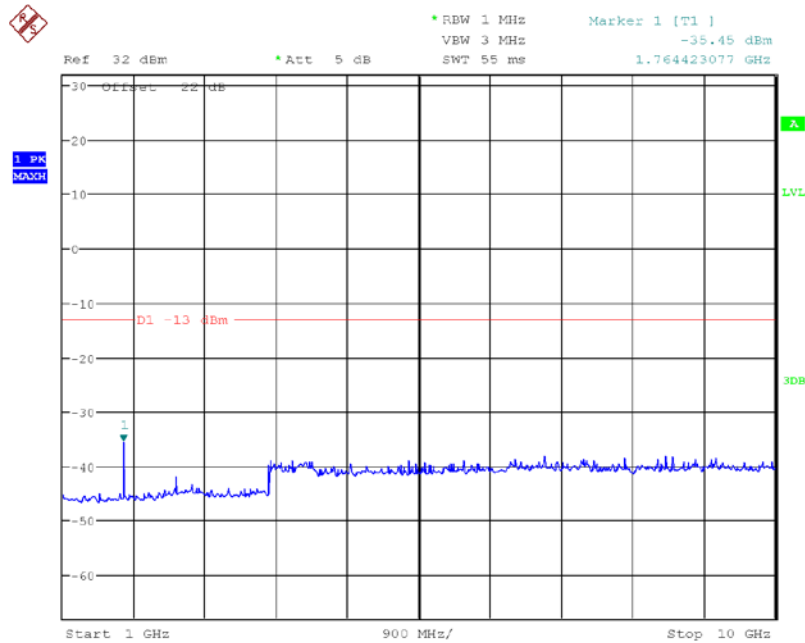
Band26-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:12:49

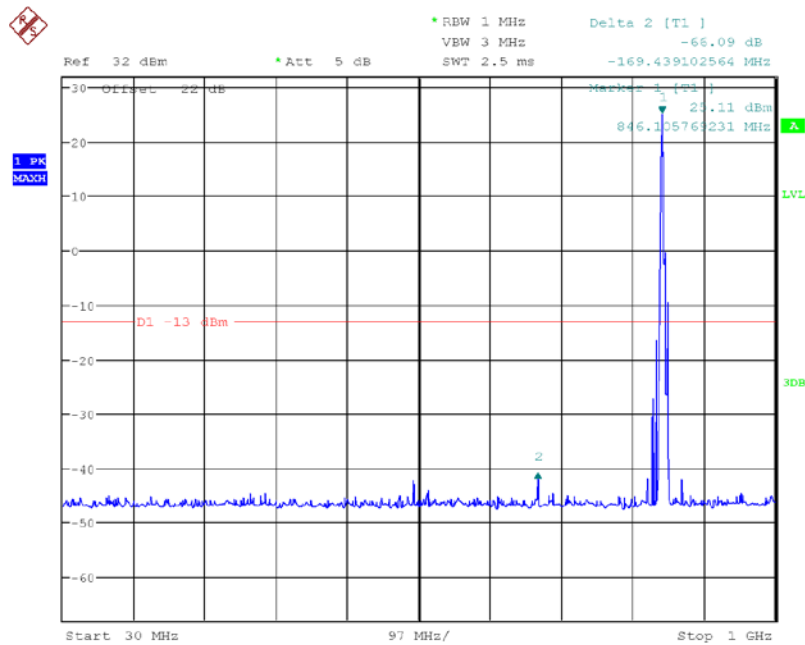
Band26-Low Channel-3MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:12:09

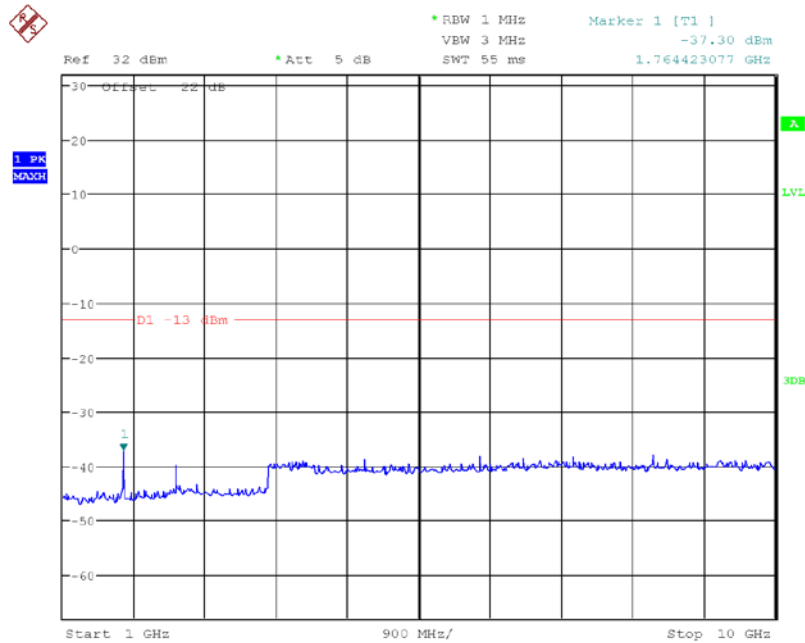
Band26-Low Channel-3MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:26:05

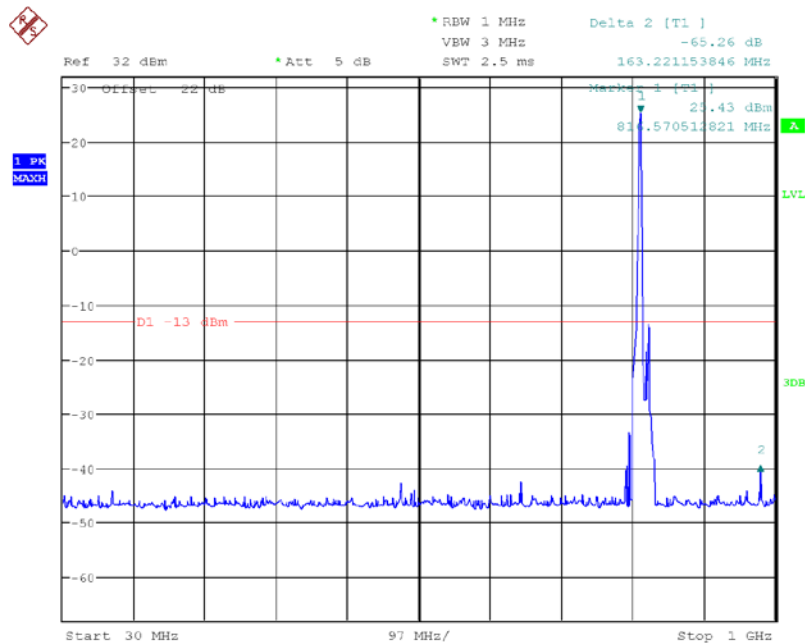
Band26-Low Channel-5MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:24:22

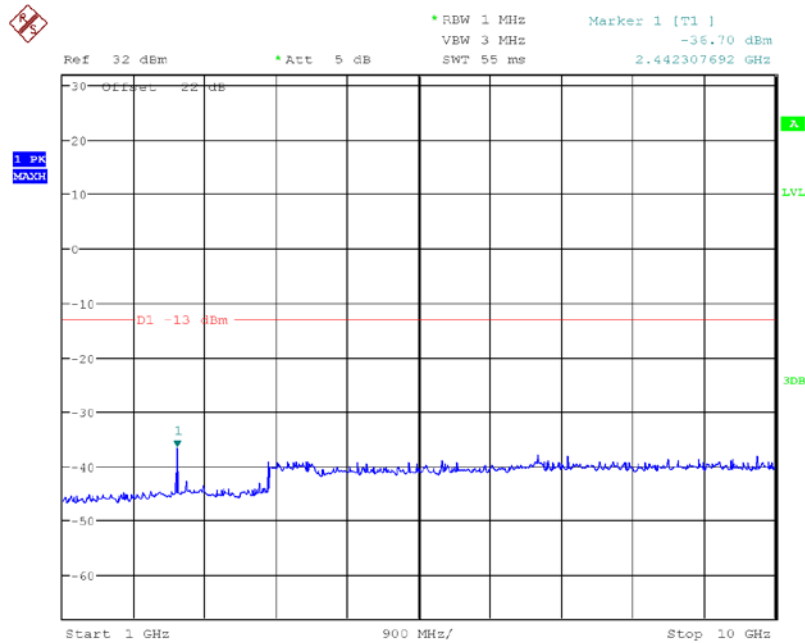
Band26-Low Channel-5MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:15:56

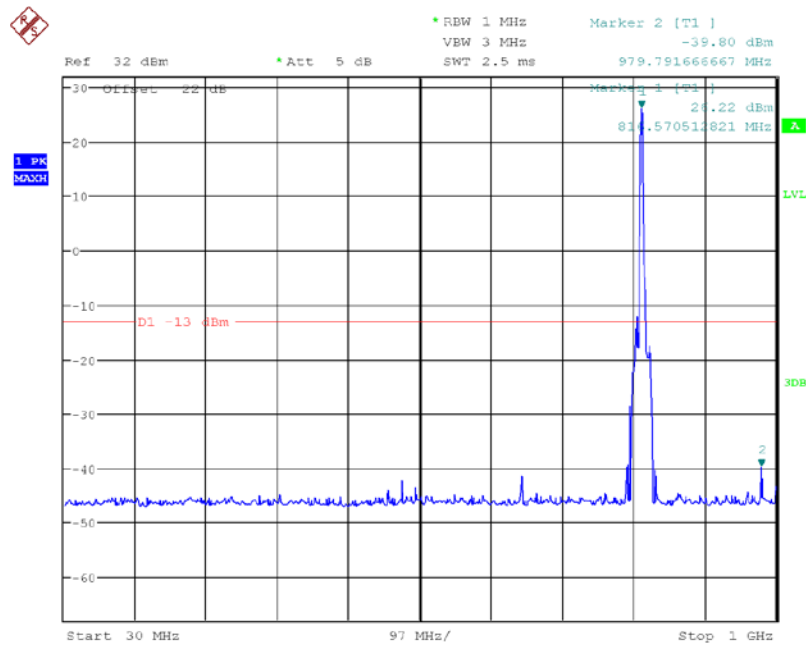
Band26-Low Channel-10MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:15:22

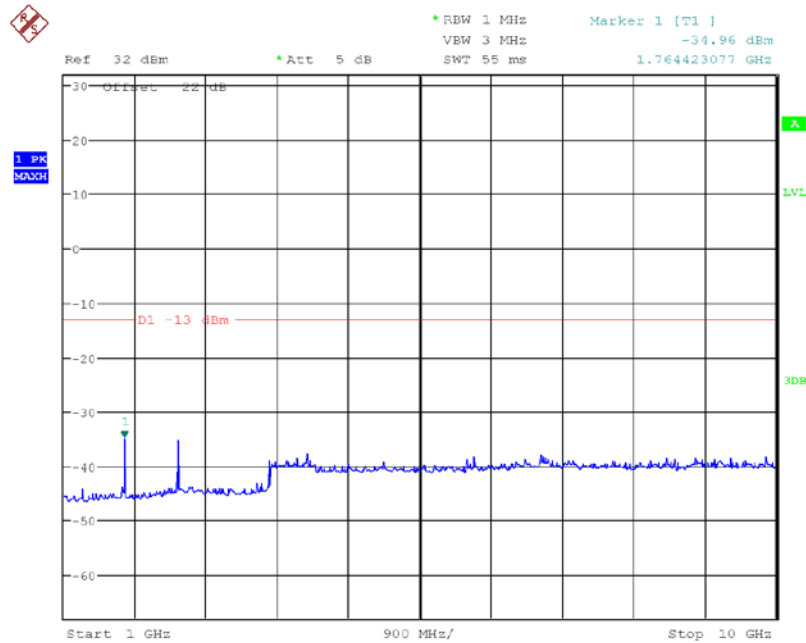
Band26-Low Channel-10MHz Bandwidth-1GHz to 10GHz

Report No.:B18W50279



Date: 8.AUG.2018 10:17:33

Band26-Low Channel-15MHz Bandwidth-30MHz to 1GHz
Note: The strong emission shown in each case is the carrier signal.



Date: 8.AUG.2018 10:18:32

Band26-Low Channel-15MHz Bandwidth-1GHz to 10GHz

5.4 Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 24.238, 2.1053, 22.917, 27.53
DUT Serial Number:	S2: MP0618221C7CAF8
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

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.

Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

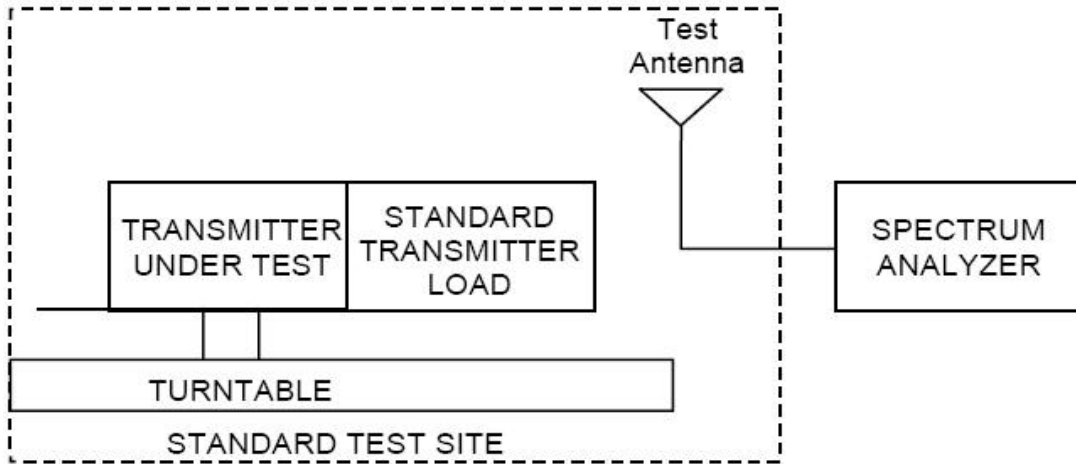
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of

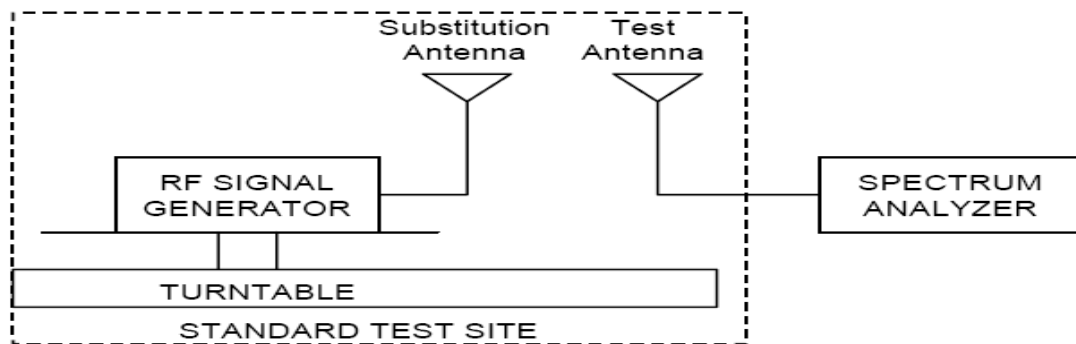
ANSI/TIA-603-D: Land Mobile FM or PM Communications Equipment Measurement and

Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

5.4.1 GSM 850 Radiated Spurious Emission Results

Test Data (GMSK Mode channel 128)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1648.46	-38.23	4.7	9.4	-33.53	V
2471.78	-47.34	5.9	10.6	-42.64	H
3296.75	-54.70	6.7	11.5	-49.90	V
4121.23	-54.55	7.6	12.6	-49.55	V
4945.23	-54.15	7.7	12.7	-49.15	V
5769.44	-50.69	1.4	13.1	-38.99	H

Test Data (GMSK Mode channel 190)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1673.23	-39.32	4.7	9.4	-34.62	V
2510.43	-46.11	5.9	10.6	-41.41	V
3346.19	-53.94	6.7	11.5	-49.14	V
4182.69	-51.58	7.6	12.6	-46.58	V
5019.61	-50.64	7.7	12.7	-45.64	V
5856.32	-54.97	1.4	13.1	-43.27	V

Test Data (GMSK Mode channel 251)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1696.42	-37.23	4.8	9.4	-32.63	V
2544.60	-45.45	5.9	10.6	-40.75	V

3392.64	-51.86	6.9	11.5	-47.26	V
4241.04	-53.30	7.8	12.6	-48.50	H
5089.23	-54.55	6.8	12.7	-48.65	H
5937.53	-53.15	1.4	13.1	-41.45	V

Test Data (8PSK Mode channel 128)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1648.46	-37.43	4.7	9.4	-32.73	V
2471.78	-44.30	5.9	10.6	-39.60	H
3296.75	-54.73	6.7	11.5	-49.93	H
4121.23	-50.25	7.6	12.6	-45.25	V
4945.23	-51.00	7.7	12.7	-46.00	V
5769.44	-54.85	1.4	13.1	-43.15	H

Test Data (8PSK K Mode channel 190)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1673.23	-39.19	4.7	9.4	-34.49	H
2510.43	-43.88	5.9	10.6	-39.18	V
3346.19	-52.71	6.7	11.5	-47.91	V
4182.69	-53.40	7.6	12.6	-48.40	H
5019.61	-50.17	7.7	12.7	-45.17	V
5856.32	-51.08	1.4	13.1	-39.38	V

Test Data (8PSK Mode channel 251)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1696.42	-38.67	4.8	9.4	-34.07	V
2544.60	-45.76	5.9	10.6	-41.06	V

3392.64	-51.35	6.9	11.5	-46.75	V
4241.04	-51.30	7.8	12.6	-46.50	V
5089.23	-54.84	6.8	12.7	-48.94	H
5937.53	-50.42	1.4	13.1	-38.72	V

5.4.2 GSM 1900 Radiated Spurious Emission Results

Test Data (GMSK Mode channel 512)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3700.36	-53.95	7.2	12.6	-48.55	V
5550.57	-50.14	2.0	13.1	-39.04	V
7400.31	-52.94	0.9	11.7	-42.14	V
9251.39	-54.96	1.0	11.9	-44.06	V
11100.87	-54.17	0.4	11.5	-43.07	V
12951.65	-54.93	0.4	13.6	-41.73	V

Test Data (GMSK Mode channel 661)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.61	-53.92	7.4	12.6	-48.72	H
5641.05	-51.98	1.8	13.1	-40.68	V
7518.97	-51.46	0.9	11.7	-40.66	V
9400.84	-51.26	0.8	11.9	-40.16	H
11279.77	-53.78	0.3	11.5	-42.58	V
13160.33	-52.95	0.4	13.6	-39.75	V

Test Data (GMSK Mode channel 810)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3818.73	-53.53	7.4	12.6	-48.33	V

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5727.33	-53.92	1.8	13.1	-42.62	V
7636.48	-53.14	0.9	11.7	-42.34	V
9547.16	-50.09	0.8	11.9	-38.99	V
11455.98	-53.18	0.3	11.5	-41.98	H
13362.79	-50.21	0.4	13.6	-37.01	V

Test Data (8PSK Mode channel 512)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3700.39	-52.19	7.2	12.6	-46.79	V
5550.43	-51.95	2.0	13.1	-40.85	H
7400.89	-51.09	0.9	11.7	-40.29	H
9251.57	-53.82	1.0	11.9	-42.92	V
11100.34	-50.99	0.4	11.5	-39.89	V
12950.98	-52.54	0.4	13.6	-39.34	V

Test Data (8PSK K Mode channel 661)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
3760.23	-51.64	7.4	12.6	-46.44	H
5641.62	-52.20	1.8	13.1	-40.90	V
7519.61	-54.02	0.9	11.7	-43.22	V
9400.48	-53.98	0.8	11.9	-42.88	H
11280.58	-50.49	0.3	11.5	-39.29	V
13160.81	-53.68	0.4	13.6	-40.48	V

Test Data (8PSK Mode channel 810)

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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3818.45	-53.81	7.4	12.6	-48.61	V
5728.21	-51.87	1.8	13.1	-40.57	V
7636.67	-54.44	0.9	11.7	-43.64	V
9548.08	-53.31	0.8	11.9	-42.21	H
11455.00	-50.26	0.3	11.5	-39.06	V
13362.53	-52.00	0.4	13.6	-38.80	H

5.4.3 NB-IoT Band 2 Radiated Spurious Emission Results

Test Data (QPSK Mode channel 18600)

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P _d) [dBm]	Antenna Polarization [H/V]
3701.12	-54.55	7.2	12.6	-49.15	H
5551.32	-50.19	2.0	13.1	-39.09	V
7401.07	-53.18	0.9	11.7	-42.38	V
9250.10	-53.01	1.0	11.9	-42.11	V
11100.53	-51.41	0.4	11.5	-40.31	V
12950.72	-52.60	0.4	13.6	-39.40	H

Test Data (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]
3760.35	-53.62	7.4	12.6	-48.42	V
5640.32	-52.11	1.8	13.1	-40.81	V
7519.59	-54.63	0.9	11.7	-43.83	V
9400.40	-50.63	0.8	11.9	-39.53	H
11280.38	-51.88	0.3	11.5	-40.68	V
13160.19	-51.28	0.4	13.6	-38.08	V

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Test Data (QPSK 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]
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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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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

4952.31	-51.64	7.9	13.1	-46.44	V
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Test Data (QPSK Mode channel 23200)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1432.56	-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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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 23200)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1432.45	-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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

Test Data (BPSK K Mode channel 26856)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_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 (1.4MHz 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]
3818.23	-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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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)	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d)	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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1432.26	-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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [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

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

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):

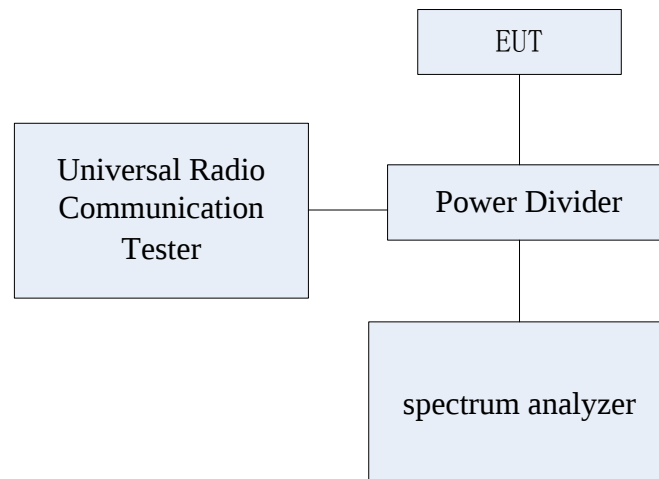
Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter 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.

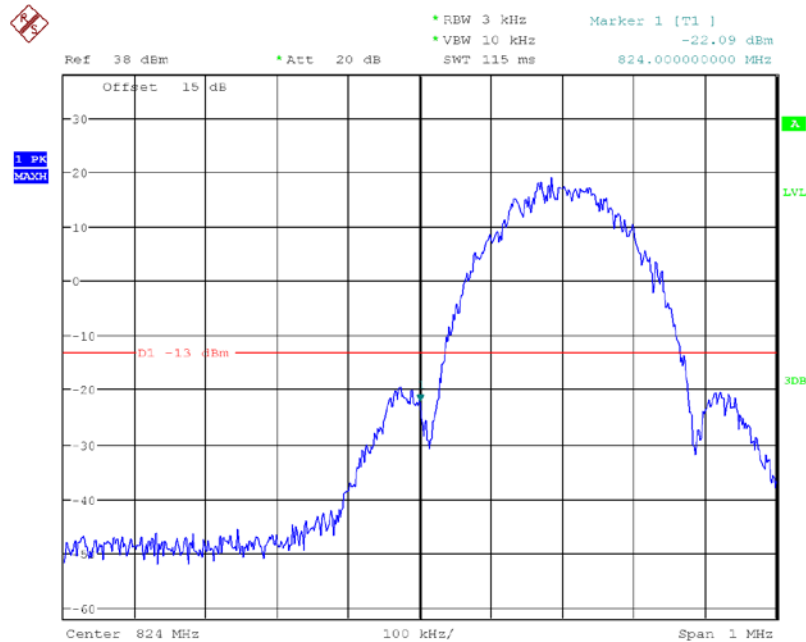


Test Method:

- 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 was a little greater than 1% of the 26dB emission Bandwidth.

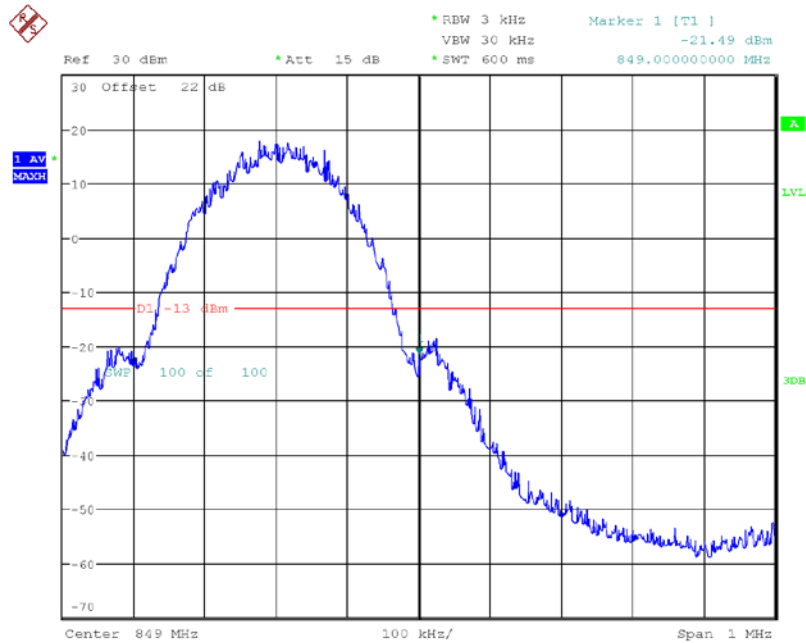
Note: In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

5.5.1 GSM850 Band Edge Results



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

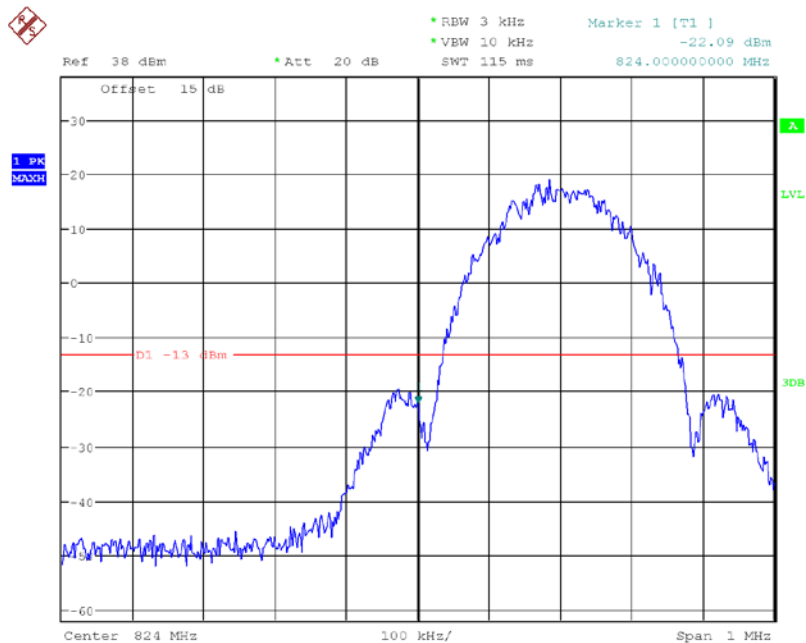
GSMK-Cellular low channel-below 824 MHz



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

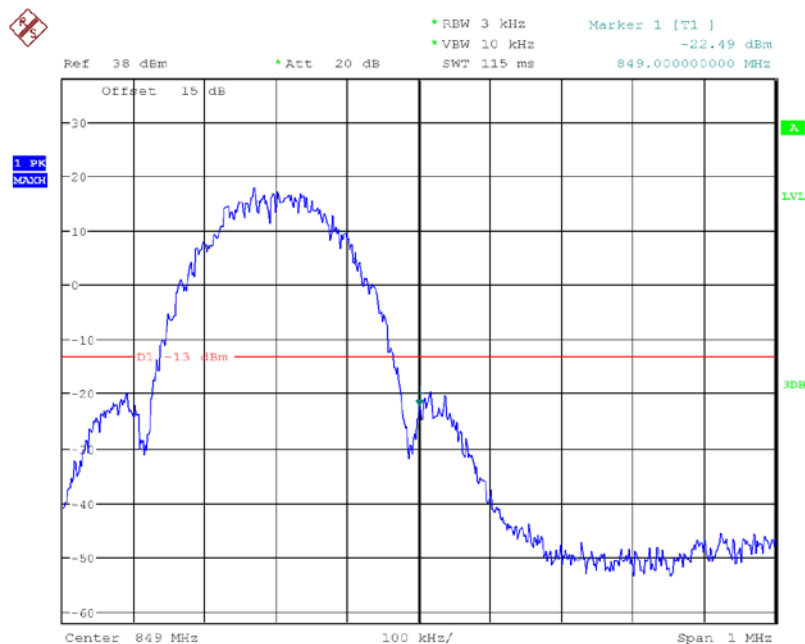
GMSK-Cellular high channel-above 849 MHz

Report No.:B18W50279



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

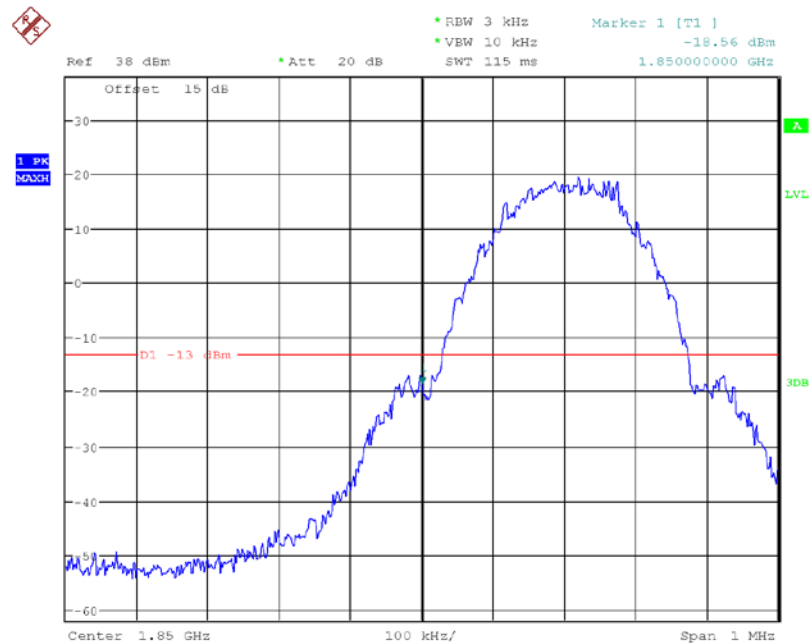
8PSK-Cellular low channel-below 824 MHz



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

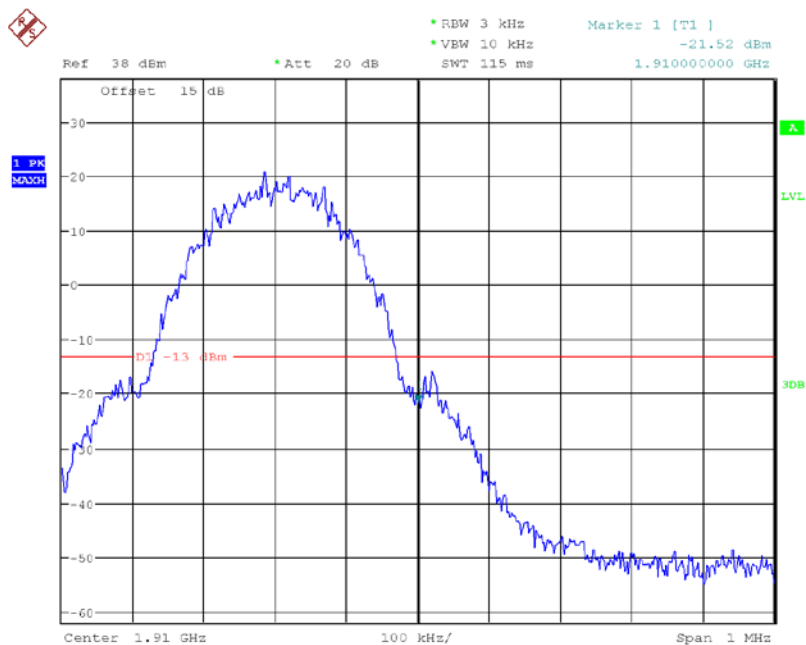
8PSK-Cellular high channel-above 849 MHz

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