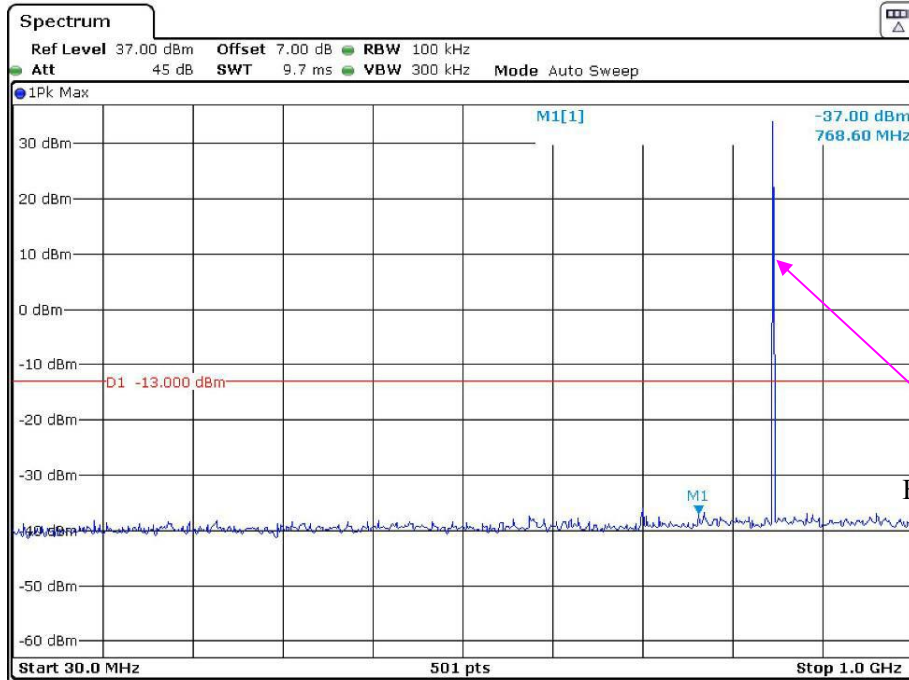


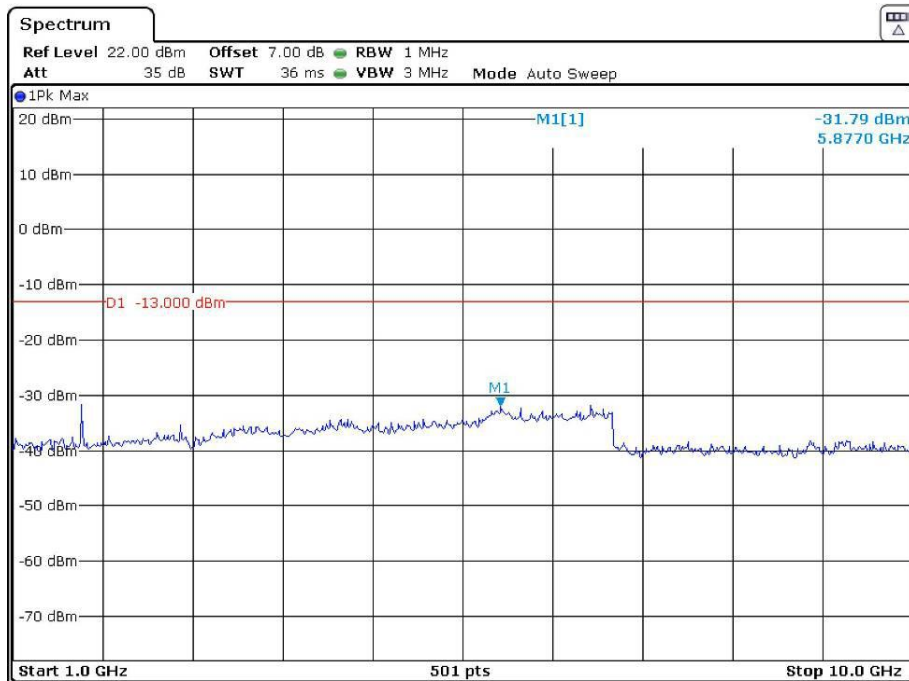
High Channel:

30 MHz – 1 GHz (GSM Mode)

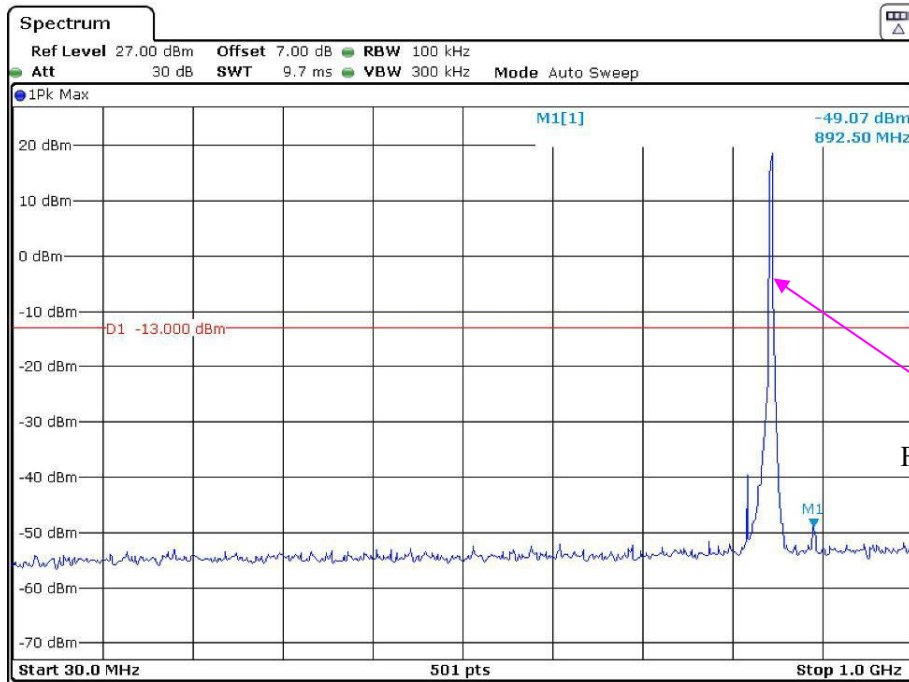


Fundamental test

1 GHz – 10 GHz (GSM Mode)

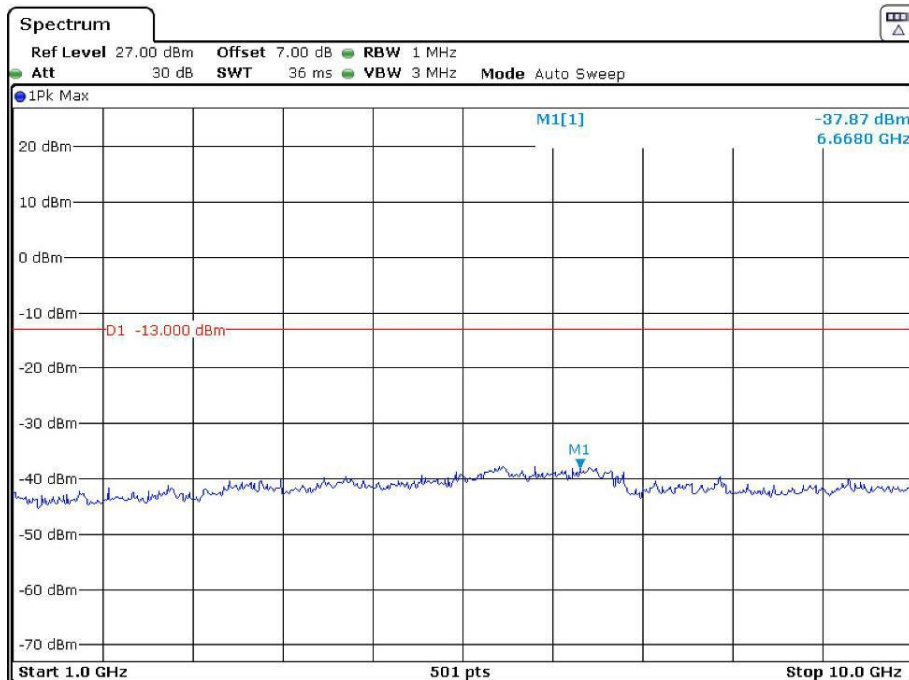


30 MHz – 1 GHz (WCDMA Mode)



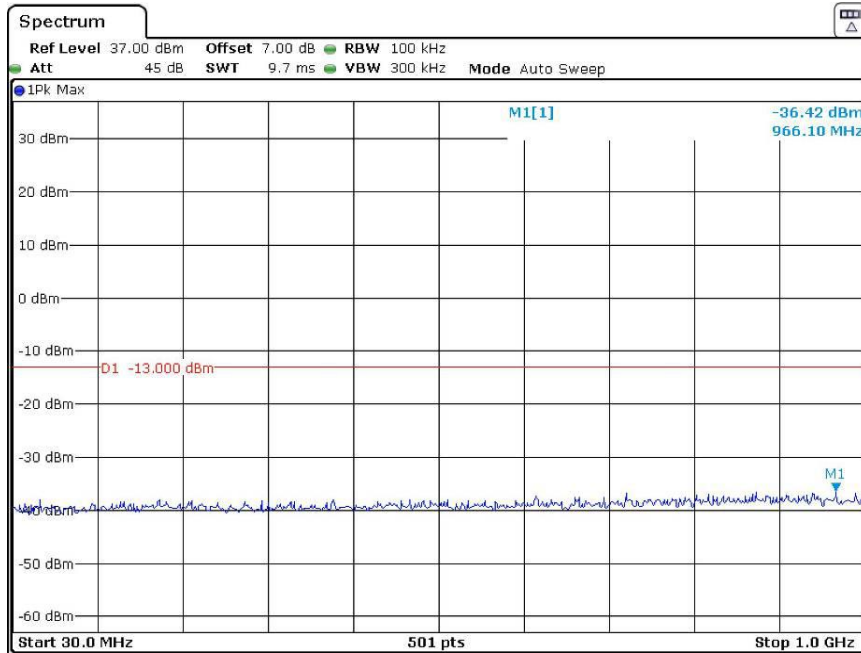
Fundamental test

1 GHz – 10 GHz (WCDMA Mode)



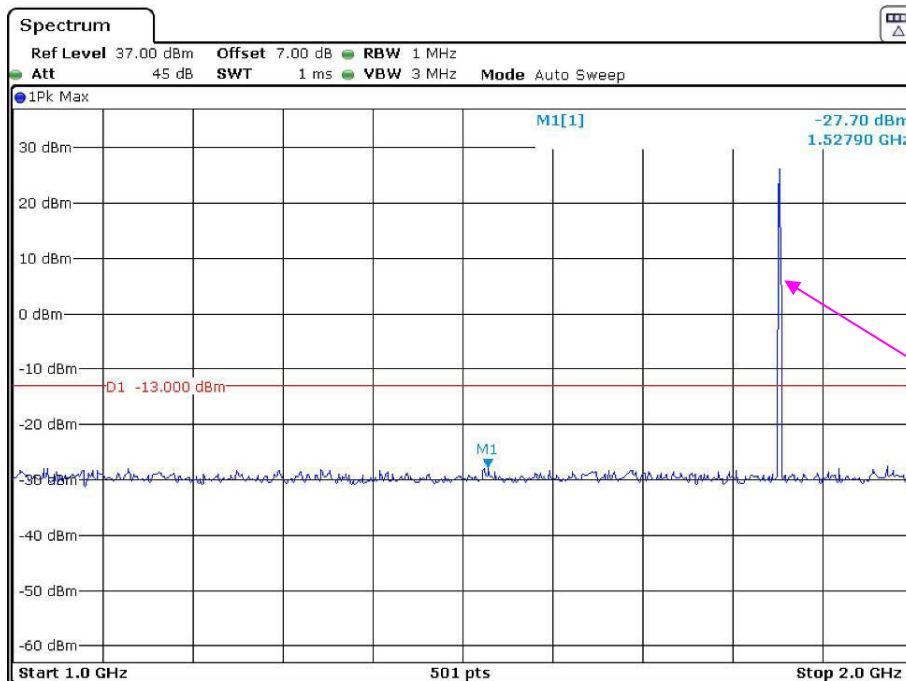
**PCS Band (Part 24E)
Low Channel:**

30 MHz – 1 GHz (GSM Mode)



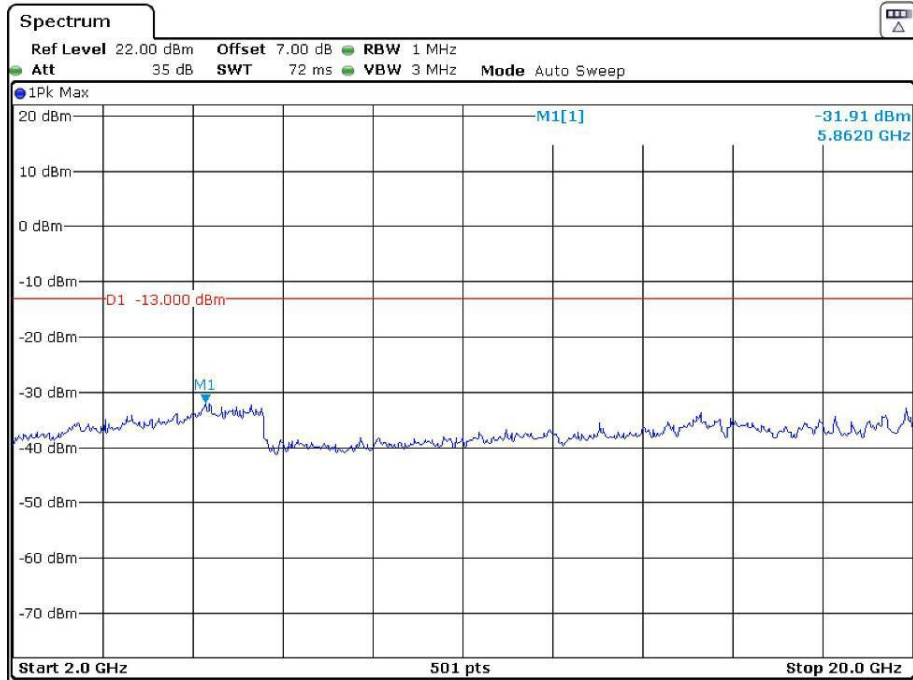
Date: 30.MAR.2022 14:47:52

1 GHz – 2 GHz (GSM Mode)



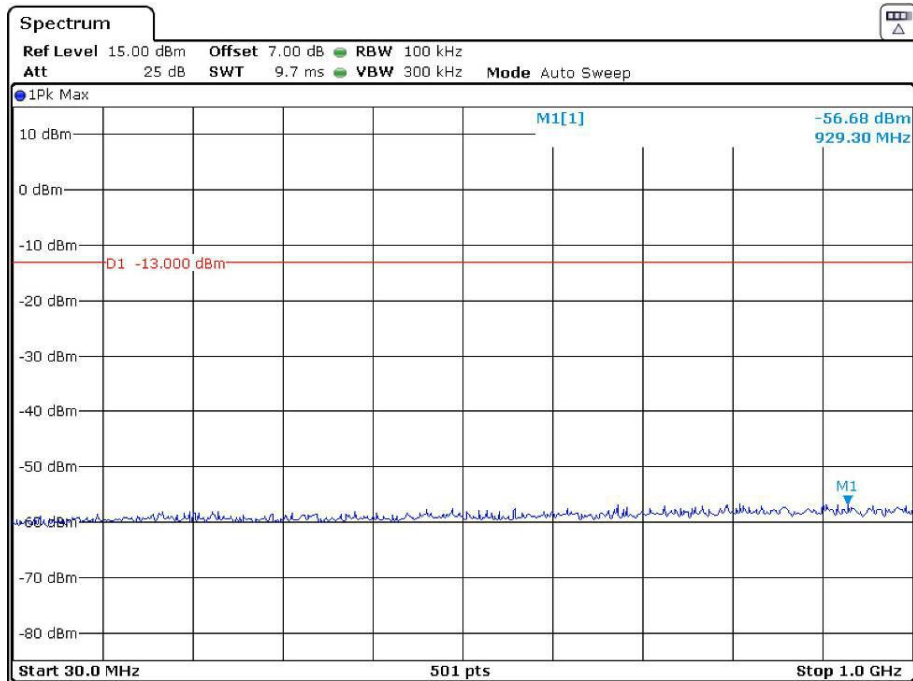
Date: 30.MAR.2022 14:49:42

2 GHz – 20 GHz (GSM Mode)



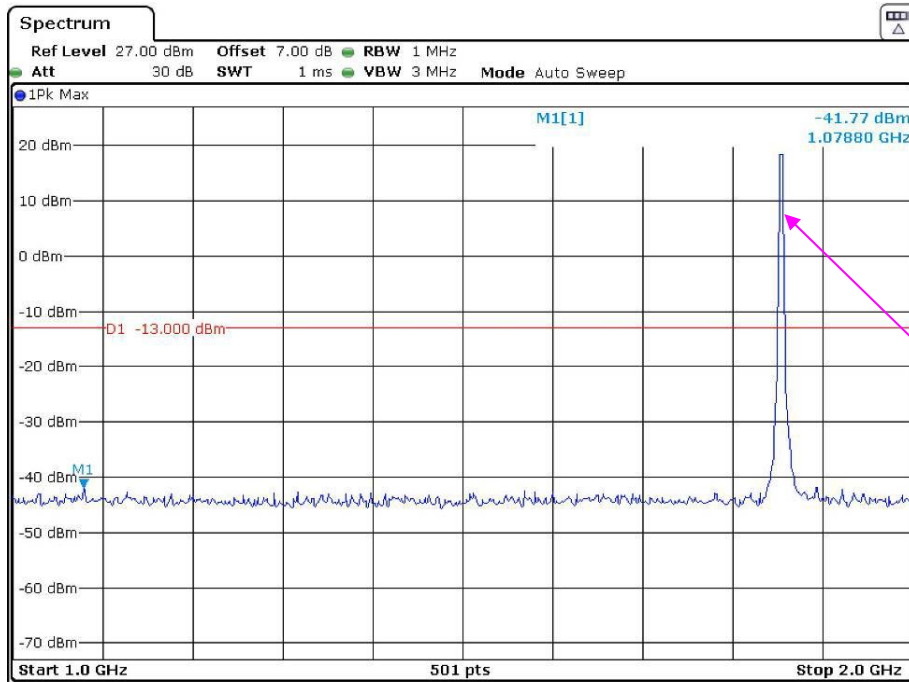
Date: 30.MAR.2022 14:50:20

30 MHz – 1 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:13:11

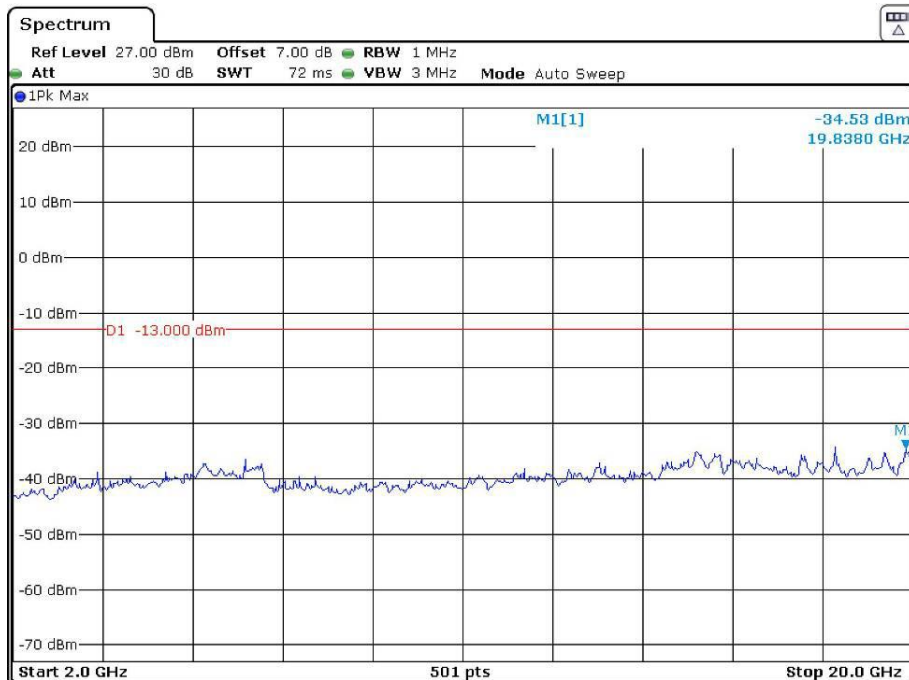
1 GHz – 2 GHz (WCDMA Mode)



Fundamental test

Date: 30.MAR.2022 09:27:12

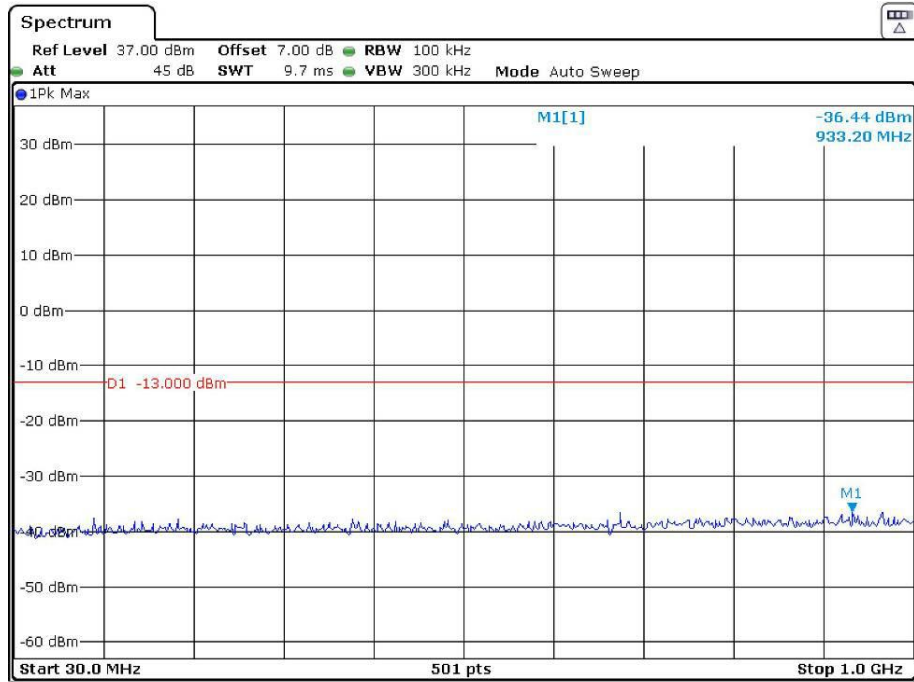
2 GHz – 20 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:34:30

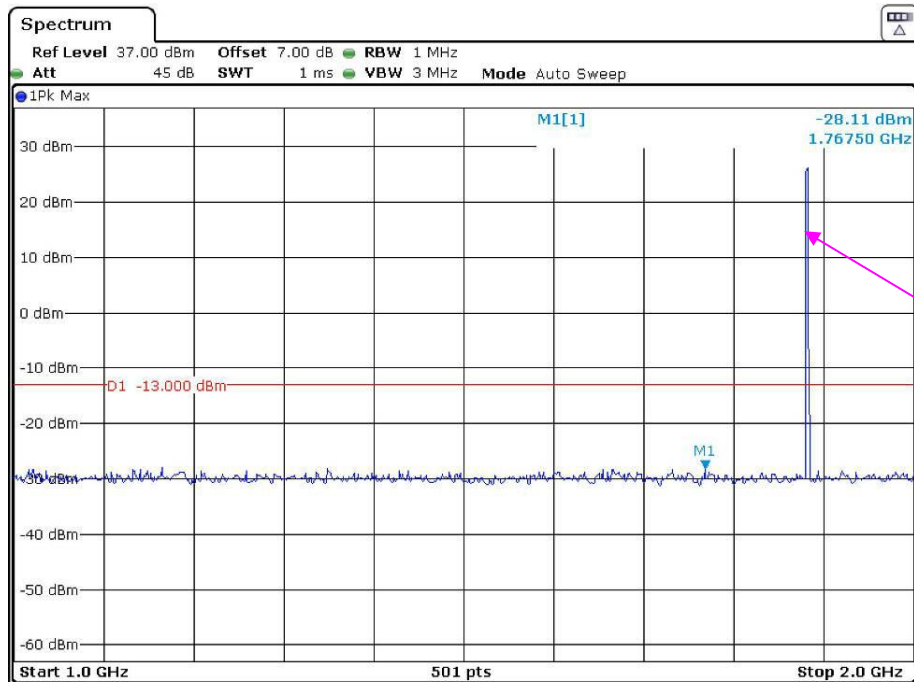
Middle Channel:

30 MHz – 1 GHz (GSM Mode)



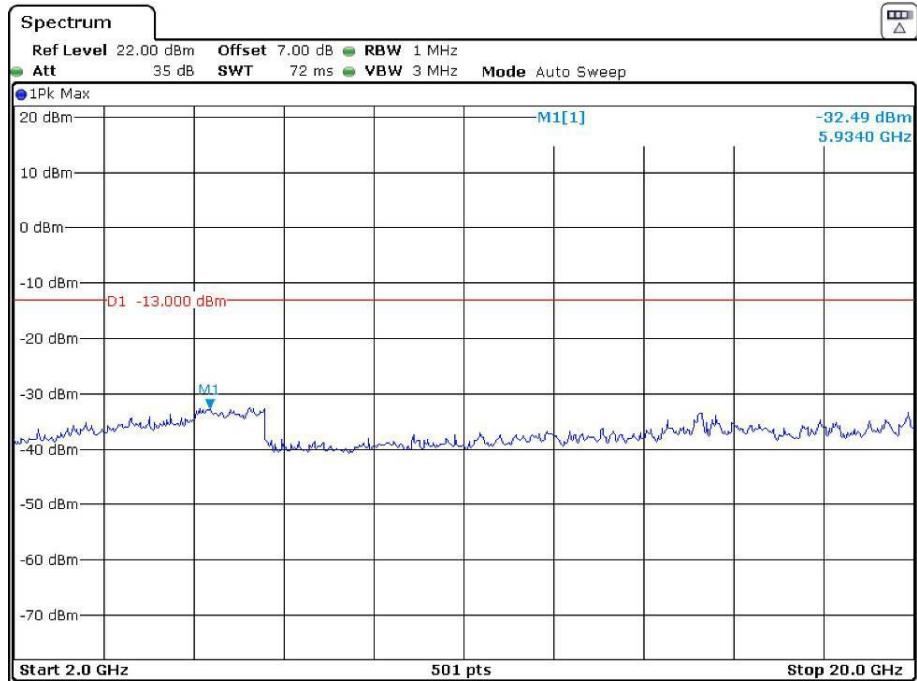
Date: 30.MAR.2022 14:48:11

1 GHz – 2GHz (GSM Mode)



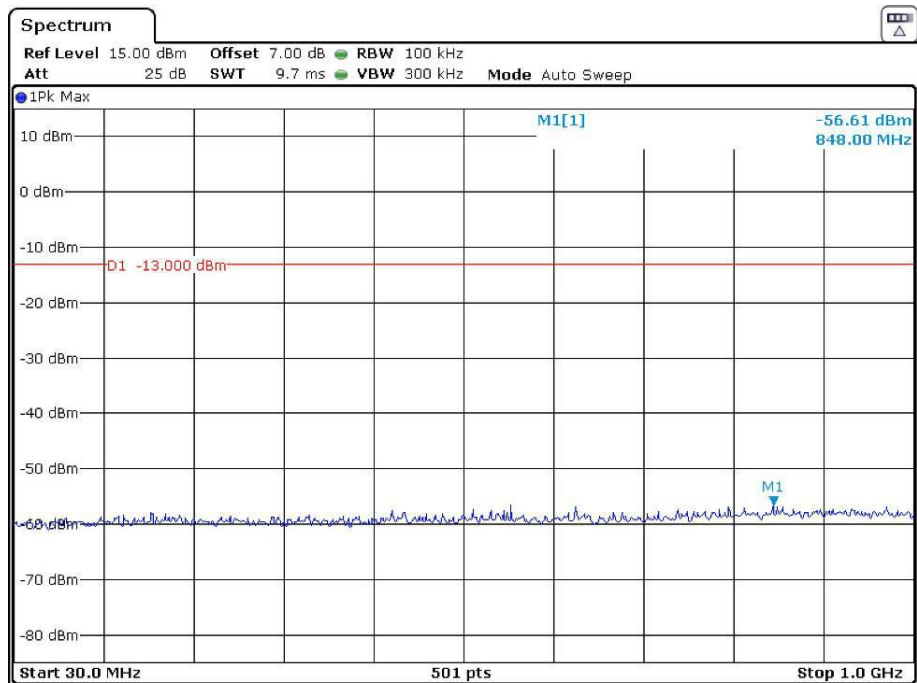
Date: 30.MAR.2022 14:49:20

2 GHz – 20 GHz (GSM Mode)



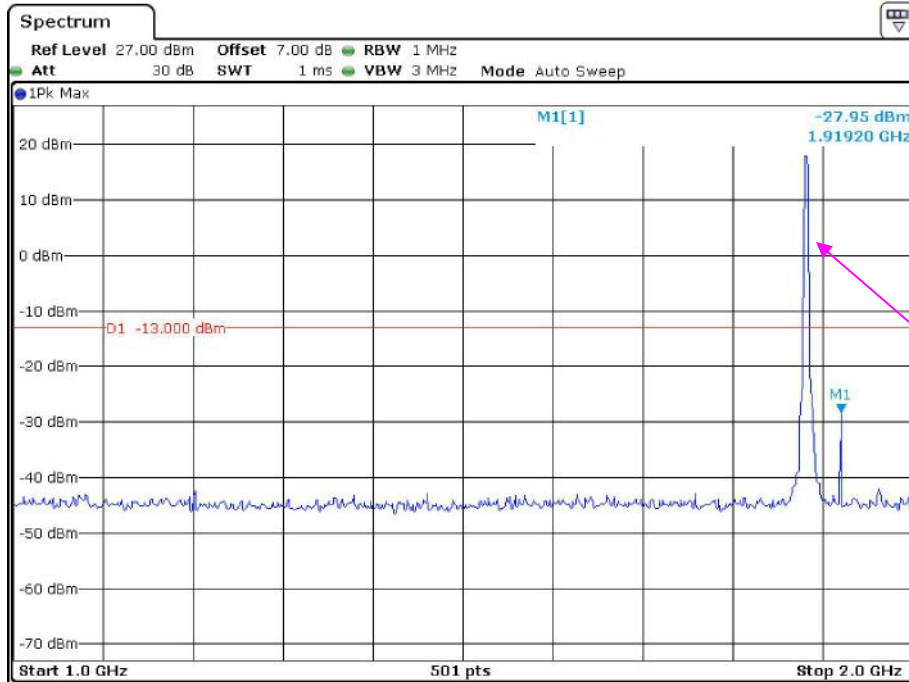
Date: 30.MAR.2022 14:50:38

30 MHz – 1 GHz (WCDMA Mode)



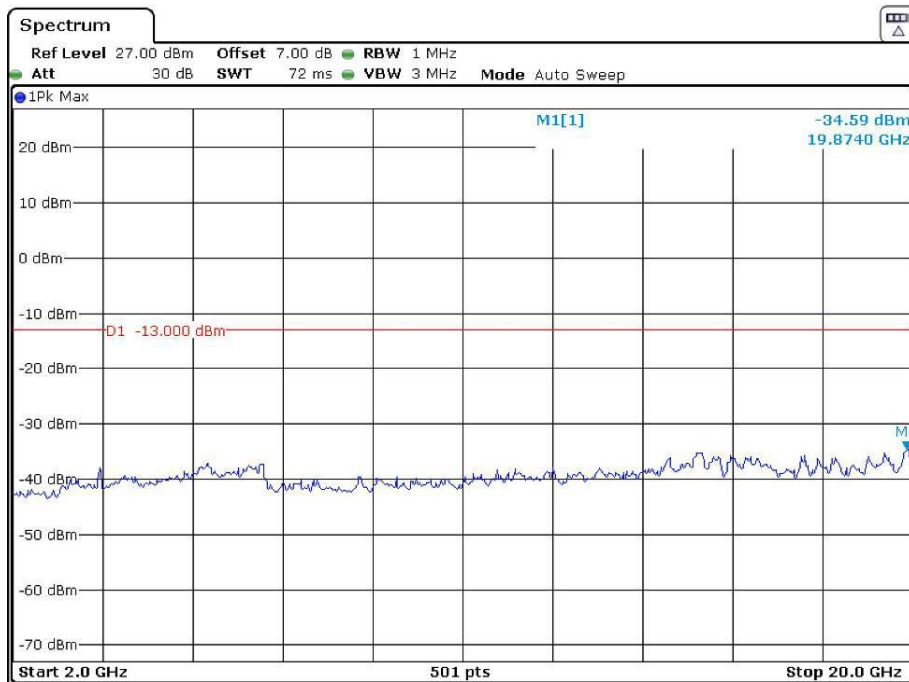
Date: 30.MAR.2022 09:14:15

1 GHz – 2GHz (WCDMA Mode)



Date: 25.APR.2022 17:29:04

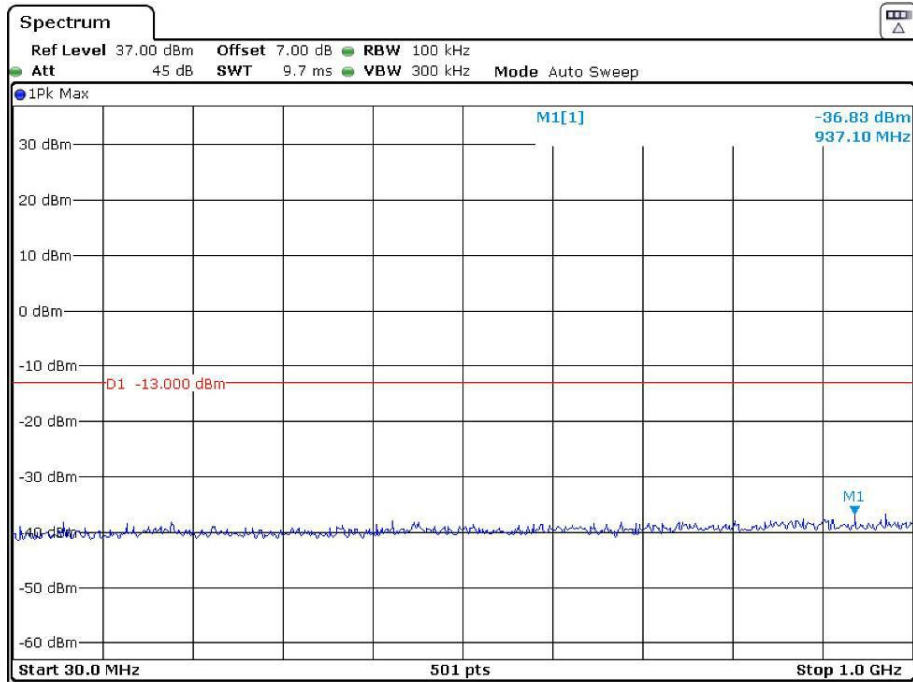
2 GHz – 20GHz (WCDMA Mode)



Date: 30.MAR.2022 09:35:21

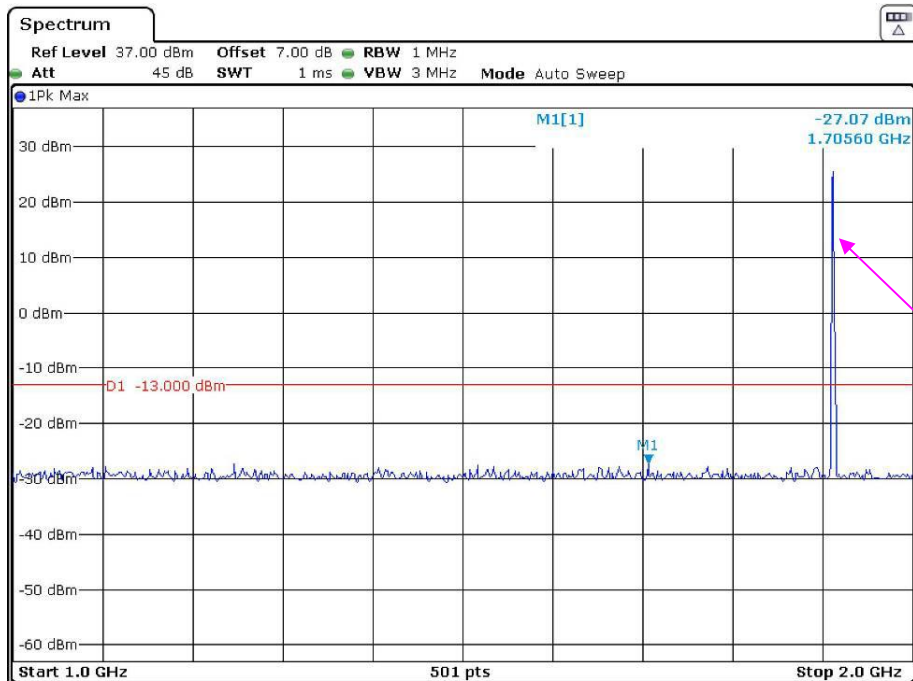
High Channel:

30 MHz – 1 GHz (GSM Mode)



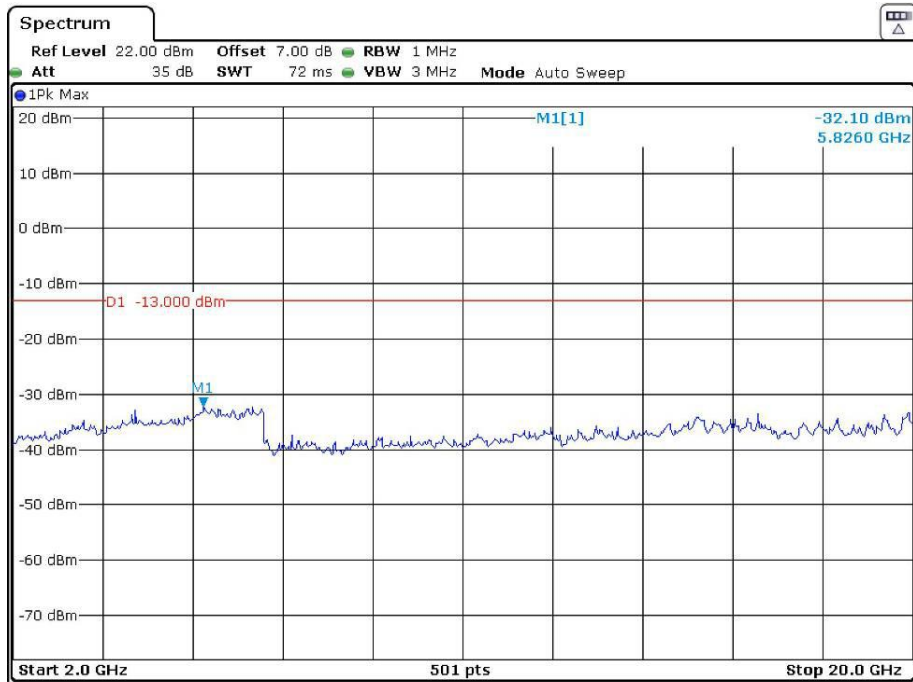
Date: 30.MAR.2022 14:48:31

1 GHz – 2 GHz (GSM Mode)



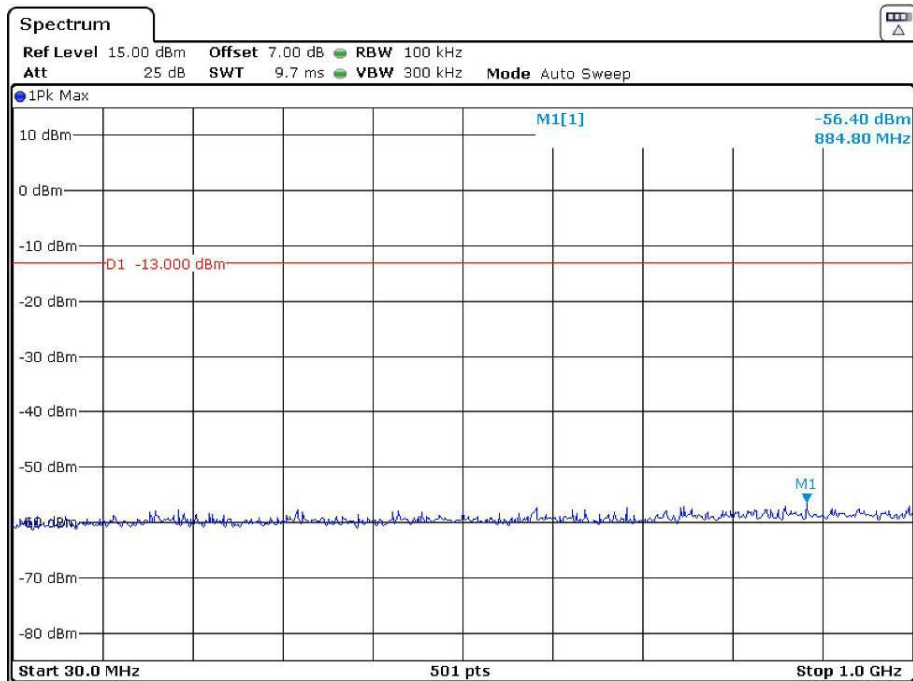
Date: 30.MAR.2022 14:49:04

1 GHz– 20 GHz (GSM Mode)



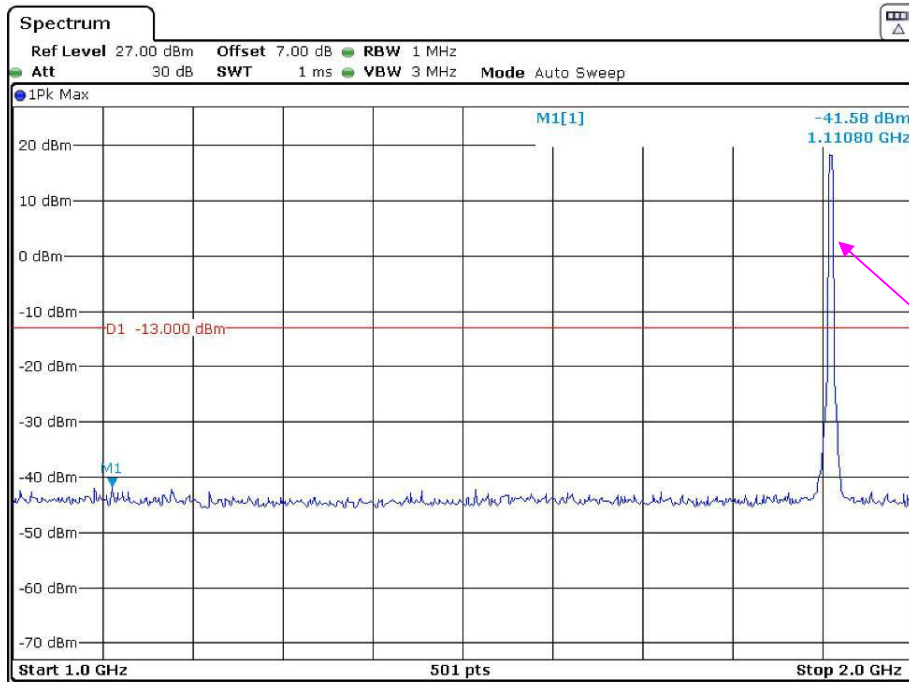
Date: 30.MAR.2022 14:51:01

30 MHz – 1 GHz (WCDMA Mode)



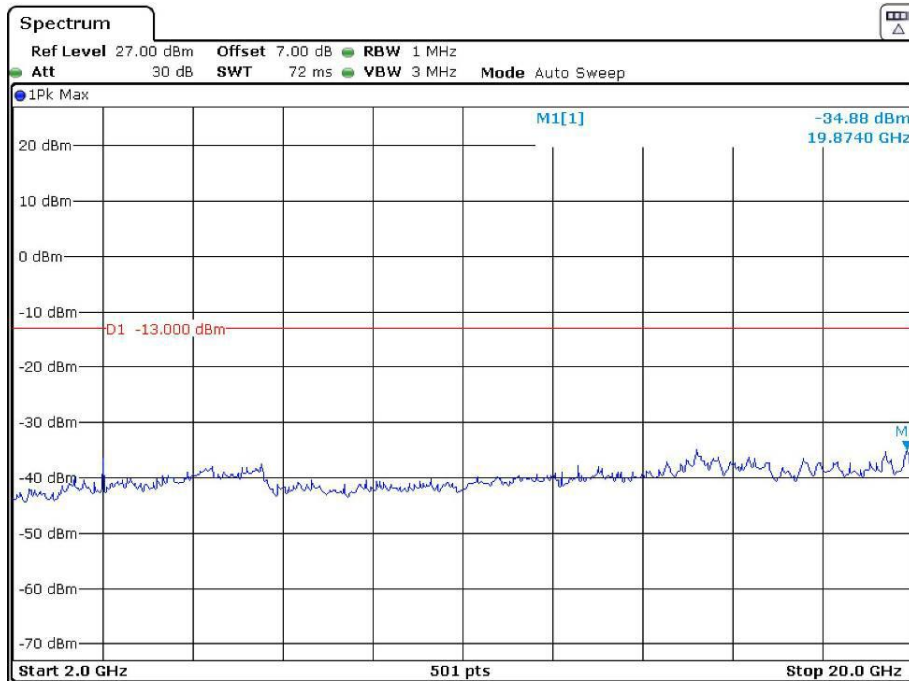
Date: 30.MAR.2022 09:13:51

1 GHz – 2 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:31:04

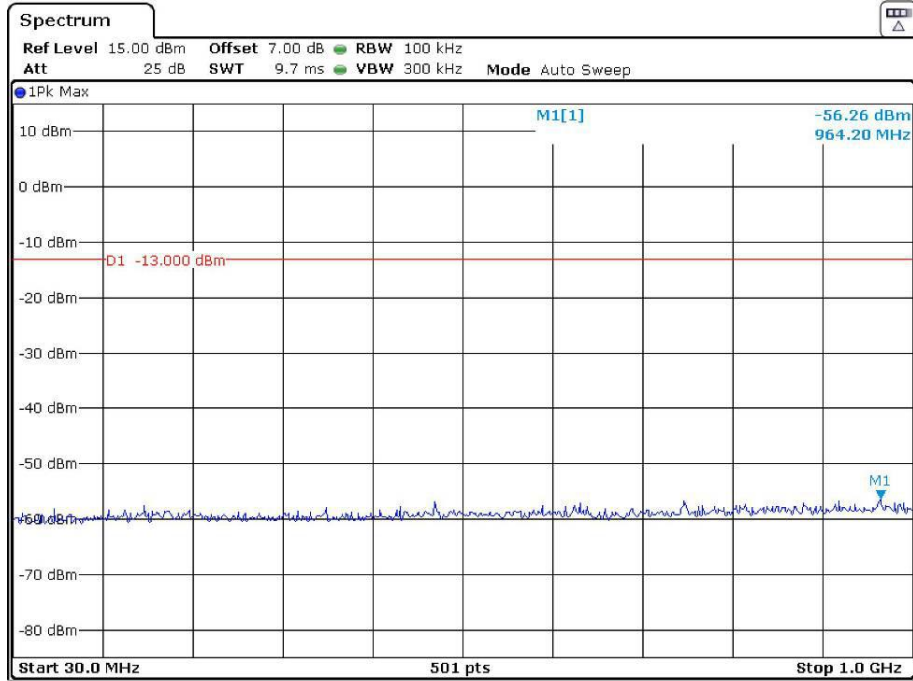
2GHz – 20 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:35:36

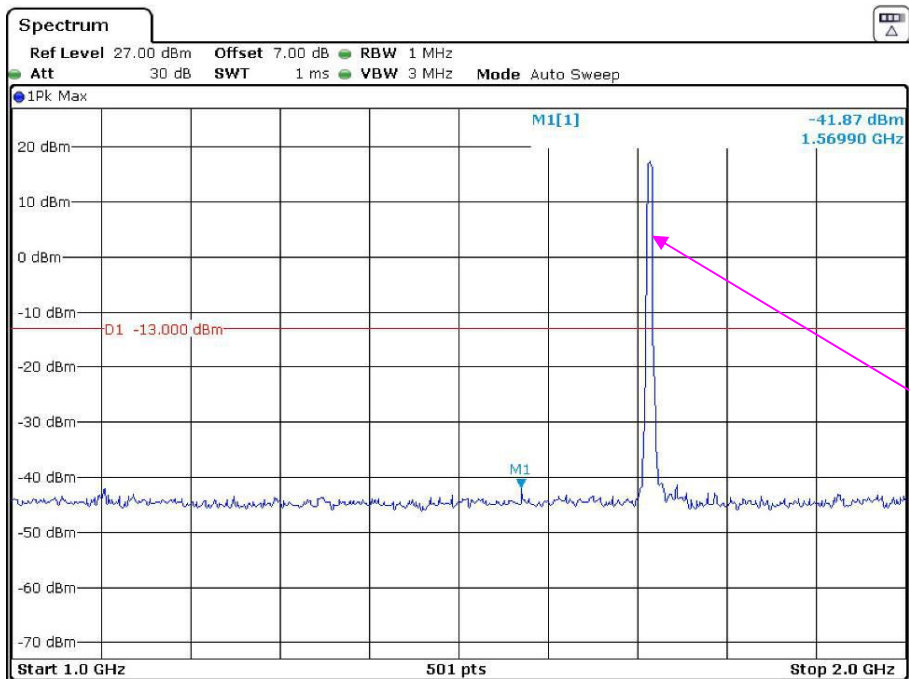
**AWS Band (Part 27)
Low Channel:**

30 MHz – 1 GHz (WCDMA Mode)



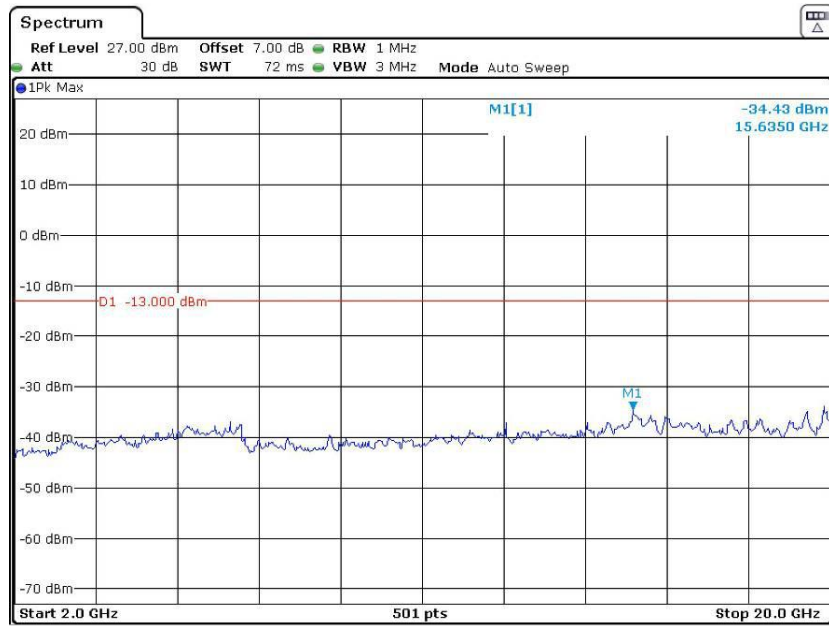
Date: 30.MAR.2022 09:14:37

1 GHz – 2 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:31:37

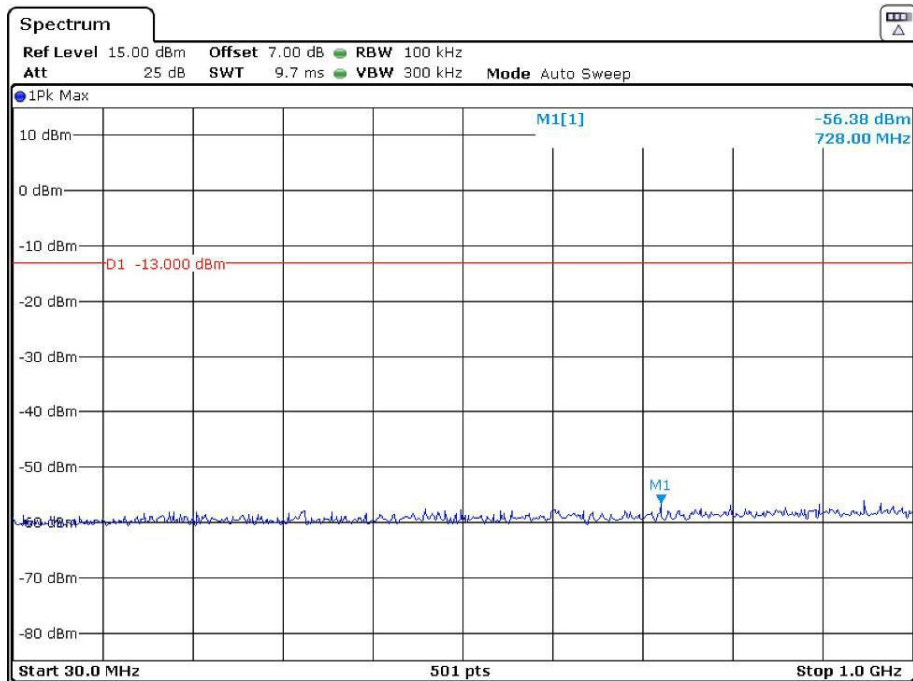
2 GHz – 20 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:33:53

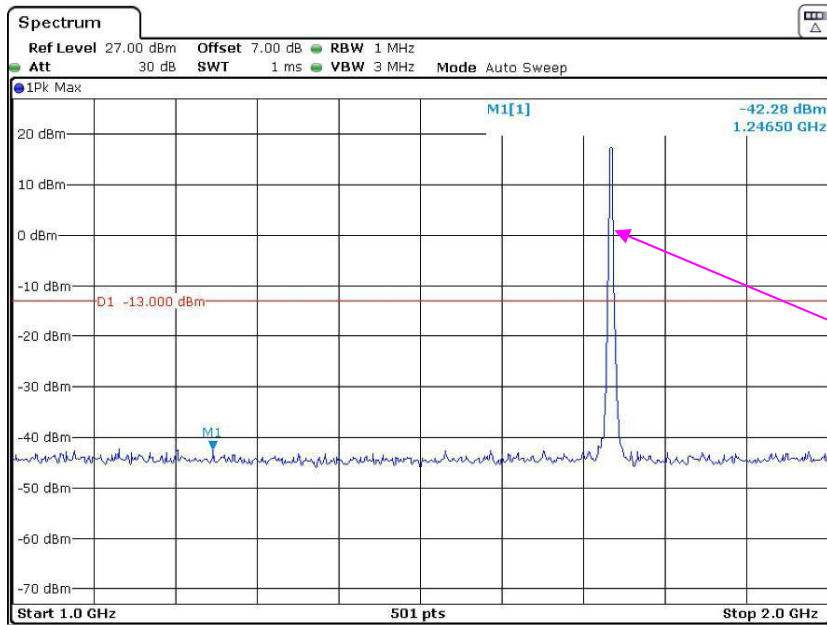
Middle Channel

30 MHz – 1 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:14:54

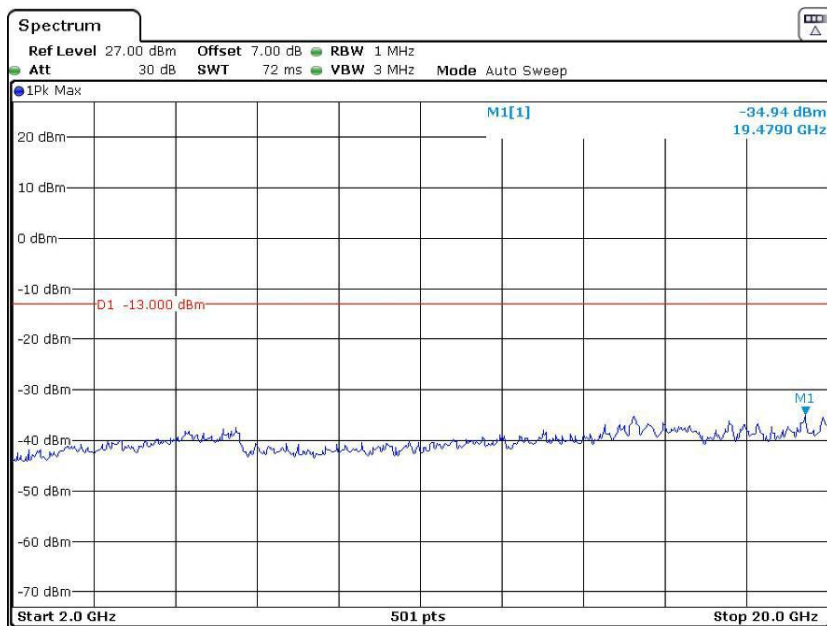
1 GHz – 2 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:32:10

Fundamental test

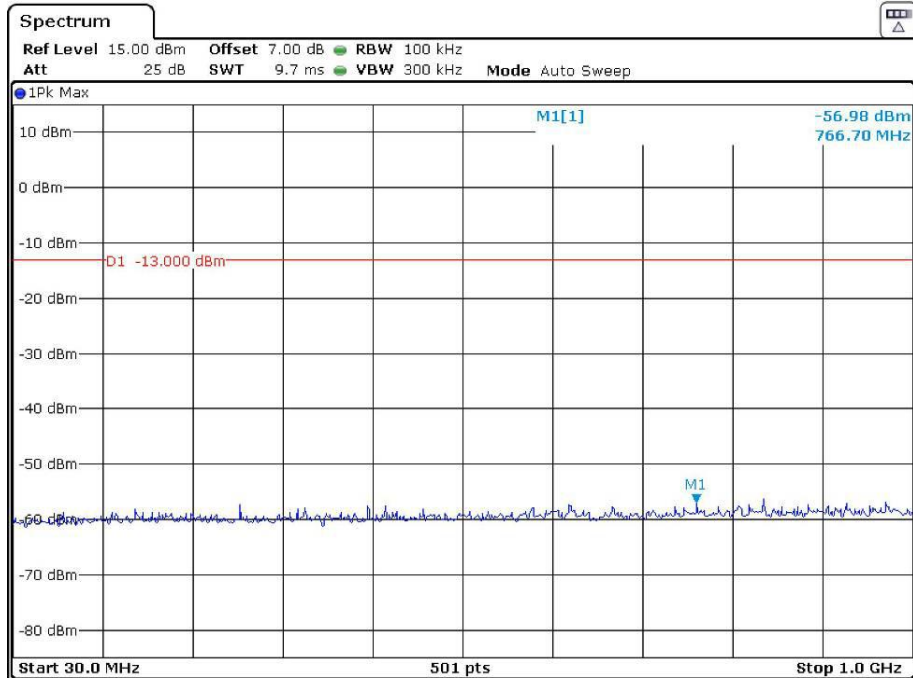
2 GHz – 20 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:33:14

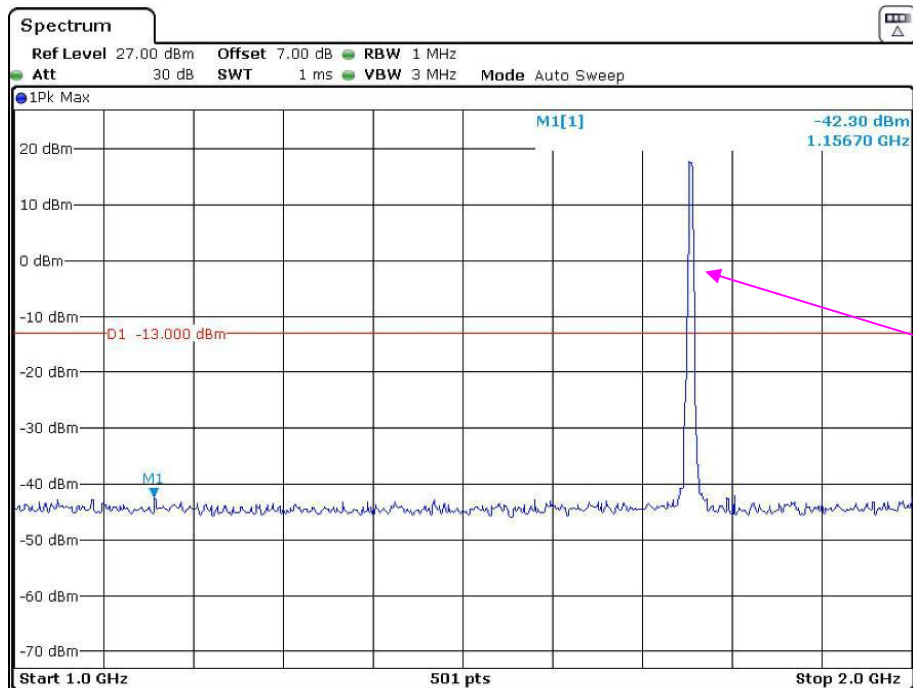
High Channel:

30 MHz – 1 GHz (WCDMA Mode)



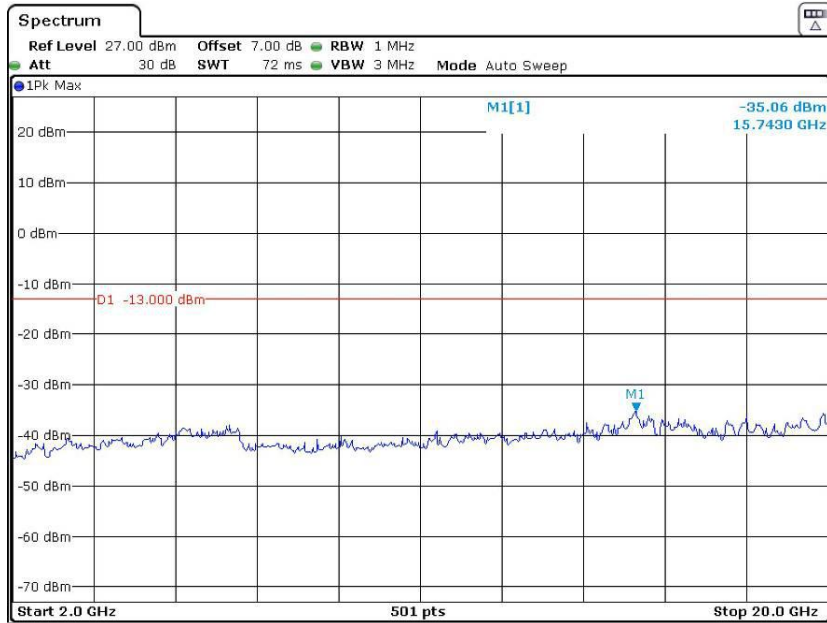
Date: 30.MAR.2022 09:15:08

1 GHz – 2 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:32:38

2 GHz – 20 GHz (WCDMA Mode)



Date: 30.MAR.2022 09:33:02

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

FCC § 2.1053; § 22.917 (a);§ 24.238 (a); §27.53- SPURIOUS RADIATED EMISSIONS

Applicable Standard

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

Test Procedure

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

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

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

Test Data

Environmental Conditions

Temperature:	23~24 °C
Relative Humidity:	52~56 %
ATM Pressure:	101.0kPa

The testing was performed by Nick Fang from 2022-04-07 to 2022-04-09.

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

The worst case is as below:

30MHz-1GHz:*Hardware version: V1.0***Cellular Band (Part 22H)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM850								
Low Channel								
962.28	-61.22	310	1.2	H	10	-51.22	-13	-38.22
962.28	-61.79	247	1.7	V	11.7	-50.09	-13	-37.09
Middle Channel								
961.78	-61.48	174	1.3	H	10	-51.48	-13	-38.48
961.78	-60.97	136	1.8	V	11.7	-49.27	-13	-36.27
High Channel								
962.13	-61.38	329	1.9	H	10	-51.38	-13	-38.38
962.13	-61.22	318	1.3	V	11.7	-49.52	-13	-36.52

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 5								
Low Channel								
962.23	-60.81	263	2.2	H	10	-50.81	-13	-37.81
962.23	-61.13	195	1.7	V	11.7	-49.43	-13	-36.43
Middle Channel								
962.02	-61.7	335	1.7	H	10	-51.7	-13	-38.7
962.02	-61.75	7	1.3	V	11.7	-50.05	-13	-37.05
High Channel								
961.43	-61.67	150	1.5	H	10	-51.67	-13	-38.67
961.43	-61.01	136	1.5	V	11.7	-49.31	-13	-36.31

30MHz-1GHz:**PCS Band (Part 24E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM 1900								
Low Channel								
961.44	-60.99	261	1.1	H	10	-50.99	-13	-37.99
961.44	-61.2	153	2.4	V	11.7	-49.5	-13	-36.5
Middle Channel								
961.81	-61.46	276	2	H	10	-51.46	-13	-38.46
961.81	-61.26	274	1.7	V	11.7	-49.56	-13	-36.56
High Channel								
962.1	-60.89	144	1.8	H	10	-50.89	-13	-37.89
962.1	-61.24	1	2.2	V	11.7	-49.54	-13	-36.54

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 2								
Low Channel								
961.93	-60.83	216	1.1	H	10	-50.83	-13	-37.83
961.93	-61.73	320	1.4	V	11.7	-50.03	-13	-37.03
Middle Channel								
961.35	-61.33	32	2	H	10	-51.33	-13	-38.33
961.35	-61.44	221	1.8	V	11.7	-49.74	-13	-36.74
High Channel								
961.7	-60.92	285	1.6	H	10	-50.92	-13	-37.92
961.7	-61.58	55	1.9	V	11.7	-49.88	-13	-36.88

30MHz-1GHz:**AWS Band (Part 27E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 4								
Low Channel								
962.17	-61.77	357	1.2	H	10	-51.77	-13	-38.77
962.17	-61.44	230	1.3	V	11.7	-49.74	-13	-36.74
Middle Channel								
961.41	-60.99	12	1.9	H	10	-50.99	-13	-37.99
961.41	-61.61	145	1.9	V	11.7	-49.91	-13	-36.91
High Channel								
962.01	-61.46	306	1.3	H	10	-51.46	-13	-38.46
962.01	-61.22	277	1.2	V	11.7	-49.52	-13	-36.52

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

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 2								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
961.46	-61.29	64	2.1	H	10	-51.29	-13	-38.29
961.46	-61.12	200	1.5	V	11.7	-49.42	-13	-36.42
QPSK, 1.4MHz bandwidth, Middle Channel								
961.7	-61.65	206	1.4	H	10	-51.65	-13	-38.65
961.7	-61.28	78	2.4	V	11.7	-49.58	-13	-36.58
QPSK, 1.4MHz bandwidth, High Channel								
962.1	-61.04	224	2.1	H	10	-51.04	-13	-38.04
962.1	-61.38	126	2.1	V	11.7	-49.68	-13	-36.68

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 4								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
962.17	-60.92	210	1.5	H	10	-50.92	-13	-37.92
962.17	-61.15	348	1.4	V	11.7	-49.45	-13	-36.45
QPSK, 1.4MHz bandwidth, Middle Channel								
961.44	-60.95	278	2.3	H	10	-50.95	-13	-37.95
961.44	-61.35	72	1.5	V	11.7	-49.65	-13	-36.65
QPSK, 1.4MHz bandwidth, High Channel								
961.42	-61.18	37	1.7	H	10	-51.18	-13	-38.18
961.42	-61.62	307	1.7	V	11.7	-49.92	-13	-36.92

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 5								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
961.37	-61.62	25	1.9	H	10	-51.62	-13	-38.62
961.37	-60.89	70	2	V	11.7	-49.19	-13	-36.19
QPSK, 1.4MHz bandwidth, Middle Channel								
961.85	-61.28	309	2.4	H	10	-51.28	-13	-38.28
961.85	-61.23	350	1.9	V	11.7	-49.53	-13	-36.53
QPSK, 1.4MHz bandwidth, High Channel								
961.85	-60.84	85	1.3	H	10	-50.84	-13	-37.84
961.85	-61.4	77	2.5	V	11.7	-49.7	-13	-36.7

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 7								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz bandwidth, Low Channel								
962.15	-61.65	112	1.7	H	10	-51.65	-25	-26.65
962.15	-61.2	224	1.8	V	11.7	-49.5	-25	-24.5
QPSK, 5MHz bandwidth, Middle Channel								
962.06	-60.82	77	1.4	H	10	-50.82	-25	-25.82
962.06	-61.33	182	1.1	V	11.7	-49.63	-25	-24.63
QPSK, 5MHz bandwidth, High Channel								
961.81	-61.75	40	1.7	H	10	-51.75	-25	-26.75
961.81	-61.18	37	1.1	V	11.7	-49.48	-25	-24.48

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 12								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
962.26	-60.97	11	2	H	10	-50.97	-13	-37.97
962.26	-61.07	359	2.2	V	11.7	-49.37	-13	-36.37
QPSK, 5MHz bandwidth, Middle Channel								
961.55	-61.57	349	1.3	H	10	-51.57	-13	-38.57
961.55	-61.64	140	1.5	V	11.7	-49.94	-13	-36.94
QPSK, 5MHz bandwidth, High Channel								
961.53	-61.59	22	1	H	10	-51.59	-13	-38.59
961.53	-61.34	17	1.5	V	11.7	-49.64	-13	-36.64

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 17								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
961.93	-61.51	124	2.1	H	10	-51.51	-13	-38.51
961.93	-61.35	285	1.8	V	11.7	-49.65	-13	-36.65
QPSK, 5MHz bandwidth, Middle Channel								
961.41	-61.12	26	2.1	H	10	-51.12	-13	-38.12
961.41	-61.33	161	1.5	V	11.7	-49.63	-13	-36.63
QPSK, 5MHz bandwidth, High Channel								
961.96	-61.11	46	1.9	H	10	-51.11	-13	-38.11
961.96	-61.45	220	1.9	V	11.7	-49.75	-13	-36.75

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 38								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
961.91	-61.8	133	2.1	H	10	-51.8	-25	-26.8
961.91	-60.94	322	1.4	V	11.7	-49.24	-25	-24.24
QPSK, 5MHz, Middle Channel								
961.93	-61.79	160	1.5	H	10	-51.79	-25	-26.79
961.93	-61.39	313	2.2	V	11.7	-49.69	-25	-24.69
QPSK, 5MHz, High Channel								
962.17	-61.15	60	1.3	H	10	-51.15	-25	-26.15
962.17	-60.96	151	2.4	V	11.7	-49.26	-25	-24.26

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 41								
Test frequency range: 30 MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
961.69	-60.92	301	1.2	H	10	-50.92	-25	-25.92
961.69	-61.66	44	1.9	V	11.7	-49.96	-25	-24.96
QPSK, 5MHz bandwidth, Middle Channel								
961.91	-61.34	221	1.6	H	10	-51.34	-25	-26.34
961.91	-61.44	27	1.7	V	11.7	-49.74	-25	-24.74
QPSK, 5MHz bandwidth, High Channel								
961.83	-61.29	31	1.1	H	10	-51.29	-25	-26.29
961.83	-60.89	310	1.2	V	11.7	-49.19	-25	-24.19

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 66								
Test frequency range: 30 MHz-20GHz								
QPSK, 1.4MHz, Low Channel								
962.01	-61.65	238	2.2	H	10	-51.65	-13	-38.65
962.01	-61.03	87	2	V	11.7	-49.33	-13	-36.33
QPSK, 1.4MHz bandwidth, Middle Channel								
961.7	-61.05	348	1.8	H	10	-51.05	-13	-38.05
961.7	-61.52	176	1.9	V	11.7	-49.82	-13	-36.82
QPSK, 1.4MHz bandwidth, High Channel								
961.47	-60.86	105	2	H	10	-50.86	-13	-37.86
961.47	-61.41	224	1.2	V	11.7	-49.71	-13	-36.71

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Absolute Level - Limit

Hardware version: V1.2

Cellular Band (Part 22H)

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM850								
Low Channel								
961.83	-57.35	151	2.1	H	10	-47.35	-13	-34.35
961.83	-58.11	338	2.4	V	11.7	-46.41	-13	-33.41
Middle Channel								
961.76	-57.54	193	2.3	H	10	-47.54	-13	-34.54
961.76	-58.15	130	1.4	V	11.7	-46.45	-13	-33.45
High Channel								
961.44	-57.48	222	1.8	H	10	-47.48	-13	-34.48
961.44	-58.62	3	1.2	V	11.7	-46.92	-13	-33.92

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 5								
Low Channel								
962.29	-56.95	80	2.2	H	10	-46.95	-13	-33.95
962.29	-58.25	281	2	V	11.7	-46.55	-13	-33.55
Middle Channel								
961.55	-57.6	321	1.6	H	10	-47.6	-13	-34.6
961.55	-58.29	320	1.1	V	11.7	-46.59	-13	-33.59
High Channel								
961.88	-57.02	197	1.9	H	10	-47.02	-13	-34.02
961.88	-58.16	98	1.3	V	11.7	-46.46	-13	-33.46

30MHz-1GHz:**PCS Band (Part 24E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM 1900								
Low Channel								
962.05	-57.44	5	2.2	H	10	-47.44	-13	-34.44
962.05	-58.01	280	1.8	V	11.7	-46.31	-13	-33.31
Middle Channel								
961.83	-57.42	49	1.4	H	10	-47.42	-13	-34.42
961.83	-58.22	75	2	V	11.7	-46.52	-13	-33.52
High Channel								
961.51	-57.49	151	1.9	H	10	-47.49	-13	-34.49
961.51	-58.39	343	1.4	V	11.7	-46.69	-13	-33.69

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 2								
Low Channel								
962.09	-57.76	39	1.6	H	10	-47.76	-13	-34.76
962.09	-58.24	4	2.3	V	11.7	-46.54	-13	-33.54
Middle Channel								
961.69	-57.62	279	2.5	H	10	-47.62	-13	-34.62
961.69	-57.81	250	1.7	V	11.7	-46.11	-13	-33.11
High Channel								
961.79	-57.39	242	1.9	H	10	-47.39	-13	-34.39
961.79	-58.15	90	1.4	V	11.7	-46.45	-13	-33.45

30MHz-1GHz:**AWS Band (Part 27E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 4								
Low Channel								
962.2	-57.57	199	1.6	H	10	-47.57	-13	-34.57
962.2	-58.19	348	1.9	V	11.7	-46.49	-13	-33.49
Middle Channel								
961.87	-57.1	120	2.3	H	10	-47.1	-13	-34.1
961.87	-58.62	322	1.7	V	11.7	-46.92	-13	-33.92
High Channel								
961.34	-57.47	11	1.5	H	10	-47.47	-13	-34.47
961.34	-57.8	125	1.6	V	11.7	-46.1	-13	-33.1

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

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 2								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
961.55	-57.74	39	2.1	H	10	-47.74	-13	-34.74
961.55	-58.05	219	1.2	V	11.7	-46.35	-13	-33.35
QPSK, 1.4MHz bandwidth, Middle Channel								
961.64	-56.87	115	2.1	H	10	-46.87	-13	-33.87
961.64	-58.03	235	2.3	V	11.7	-46.33	-13	-33.33
QPSK, 1.4MHz bandwidth, High Channel								
961.48	-57.4	55	2.3	H	10	-47.4	-13	-34.4
961.48	-58.29	72	1	V	11.7	-46.59	-13	-33.59

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 4								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
961.6	-57.02	183	2.4	H	10	-47.02	-13	-34.02
961.6	-58.49	51	1.4	V	11.7	-46.79	-13	-33.79
QPSK, 1.4MHz bandwidth, Middle Channel								
960.79	-56.98	159	1.1	H	10	-46.98	-13	-33.98
960.79	-58.72	241	1.4	V	11.7	-47.02	-13	-34.02
QPSK, 1.4MHz bandwidth, High Channel								
960.95	-57.67	12	2.4	H	10	-47.67	-13	-34.67
960.95	-58.1	116	2.2	V	11.7	-46.4	-13	-33.4

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 5								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
960.76	-57.7	222	1.3	H	10	-47.7	-13	-34.7
960.76	-58.09	61	1.8	V	11.7	-46.39	-13	-33.39
QPSK, 1.4MHz bandwidth, Middle Channel								
960.9	-57.32	207	1.4	H	10	-47.32	-13	-34.32
960.9	-58.27	223	1.6	V	11.7	-46.57	-13	-33.57
QPSK, 1.4MHz bandwidth, High Channel								
961.42	-57.02	229	1	H	10	-47.02	-13	-34.02
961.42	-58	174	1.2	V	11.7	-46.3	-13	-33.3

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 7								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz bandwidth, Low Channel								
960.75	-57.14	93	1.2	H	10	-47.14	-25	-22.14
960.75	-58.49	101	1.7	V	11.7	-46.79	-25	-21.79
QPSK, 5MHz bandwidth, Middle Channel								
961.14	-56.81	107	1.6	H	10	-46.81	-25	-21.81
961.14	-58.17	43	2.3	V	11.7	-46.47	-25	-21.47
QPSK, 5MHz bandwidth, High Channel								
961.15	-57.57	158	1.5	H	10	-47.57	-25	-22.57
961.15	-58.61	252	2.3	V	11.7	-46.91	-25	-21.91

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 12								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
960.86	-57.13	244	2.2	H	10	-47.13	-13	-34.13
960.86	-58.64	144	1.2	V	11.7	-46.94	-13	-33.94
QPSK, 5MHz bandwidth, Middle Channel								
961.49	-57.19	196	2.1	H	10	-47.19	-13	-34.19
961.49	-57.88	235	1.1	V	11.7	-46.18	-13	-33.18
QPSK, 5MHz bandwidth, High Channel								
960.87	-56.99	343	2	H	10	-46.99	-13	-33.99
960.87	-58.47	34	2.1	V	11.7	-46.77	-13	-33.77

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 17								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
960.82	-57.8	331	2.5	H	10	-47.8	-13	-34.8
960.82	-58.11	249	2.4	V	11.7	-46.41	-13	-33.41
QPSK, 5MHz bandwidth, Middle Channel								
961.04	-57.69	171	1.4	H	10	-47.69	-13	-34.69
961.04	-58.7	266	1.4	V	11.7	-47	-13	-34
QPSK, 5MHz bandwidth, High Channel								
961.48	-57.38	111	1.5	H	10	-47.38	-13	-34.38
961.48	-58.16	69	1.3	V	11.7	-46.46	-13	-33.46

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 38								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
960.77	-57.63	36	2.2	H	10	-47.63	-25	-22.63
960.77	-58.5	295	2	V	11.7	-46.8	-25	-21.8
QPSK, 5MHz, Middle Channel								
960.83	-57.09	35	1	H	10	-47.09	-25	-22.09
960.83	-58.36	285	1	V	11.7	-46.66	-25	-21.66
QPSK, 5MHz, High Channel								
961.12	-57.12	278	1.6	H	10	-47.12	-25	-22.12
961.12	-57.85	128	1.8	V	11.7	-46.15	-25	-21.15

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 41								
Test frequency range: 30 MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
960.82	-57.37	61	1.4	H	10	-47.37	-25	-22.37
960.82	-58.1	262	2	V	11.7	-46.4	-25	-21.4
QPSK, 5MHz bandwidth, Middle Channel								
961.42	-57.33	346	1.8	H	10	-47.33	-25	-22.33
961.42	-58.76	25	1.7	V	11.7	-47.06	-25	-22.06
QPSK, 5MHz bandwidth, High Channel								
960.99	-57.49	231	1.4	H	10	-47.49	-25	-22.49
960.99	-58.26	273	1.5	V	11.7	-46.56	-25	-21.56

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 66								
Test frequency range: 30 MHz-20GHz								
QPSK, 1.4MHz, Low Channel								
960.81	-56.81	7	1.4	H	10	-46.81	-13	-33.81
960.81	-58.6	312	1.8	V	11.7	-46.9	-13	-33.9
QPSK, 1.4MHz bandwidth, Middle Channel								
960.83	-57.64	331	1.3	H	10	-47.64	-13	-34.64
960.83	-58.49	214	1.6	V	11.7	-46.79	-13	-33.79
QPSK, 1.4MHz bandwidth, High Channel								
960.51	-57.11	226	1.3	H	10	-47.11	-13	-34.11
960.51	-58.05	295	1.3	V	11.7	-46.35	-13	-33.35

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Absolute Level - Limit

1 GHz-10GHz:**Cellular Band (Part 22H)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM850								
Low Channel								
1648.4	-53.80	135	1.8	H	3.5	-50.30	-13	-37.30
1648.4	-53.70	295	1.5	V	3.1	-50.60	-13	-37.60
2472.6	-46.70	209	2.2	H	6.6	-40.10	-13	-27.10
2472.6	-45.00	279	1.8	V	5.8	-39.20	-13	-26.20
3296.8	-51.70	337	2.5	H	6.4	-45.30	-13	-32.30
3296.8	-51.70	144	1.5	V	5.7	-46.00	-13	-33.00
Middle Channel								
1673.2	-50.50	303	1.4	H	3.8	-46.70	-13	-33.70
1673.2	-50.60	166	2.2	V	3.1	-47.50	-13	-34.50
2509.8	-47.40	152	2.1	H	6.2	-41.20	-13	-28.20
2509.8	-44.90	173	1.5	V	5.6	-39.30	-13	-26.30
3346.4	-53.10	31	1.8	H	6.6	-46.50	-13	-33.50
3346.4	-52.20	156	1.3	V	5.4	-46.80	-13	-33.80
High Channel								
1697.6	-50.70	74	1.0	H	4.1	-46.60	-13	-33.60
1697.6	-46.30	45	1.2	V	3.1	-43.20	-13	-30.20
2546.4	-43.00	43	2.2	H	6.1	-36.90	-13	-23.90
2546.4	-42.40	235	1.7	V	5.8	-36.60	-13	-23.60
3395.2	-52.60	128	1.9	H	6.2	-46.40	-13	-33.40
3395.2	-52.10	40	1.2	V	5.4	-46.70	-13	-33.70

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 5								
Low Channel								
1652.8	-54.60	174	2.5	H	3.5	-51.10	-13	-38.10
1652.8	-54.70	233	1.2	V	3.1	-51.60	-13	-38.60
2479.2	-50.50	353	1.4	H	6.6	-43.90	-13	-30.90
2479.2	-49.30	317	2	V	5.8	-43.50	-13	-30.50
3305.6	-52.20	227	1.4	H	6.4	-45.80	-13	-32.80
3305.6	-52.00	253	1.9	V	5.7	-46.30	-13	-33.30
Middle Channel								
1673.2	-50.30	213	1.2	H	3.8	-46.50	-13	-33.50
1673.2	-51.90	278	2.3	V	3.1	-48.80	-13	-35.80
2509.8	-56.00	206	1.7	H	6.2	-49.80	-13	-36.80
2509.8	-54.50	207	2.3	V	5.6	-48.90	-13	-35.90
3346.4	-52.60	161	1	H	6.6	-46.00	-13	-33.00
3346.4	-50.30	213	1.2	H	3.8	-46.50	-13	-33.50
High Channel								
1693.2	-54.90	238	1.4	H	4.1	-50.80	-13	-37.80
1693.2	-55.10	99	1.6	V	3.1	-52.00	-13	-39.00
2539.8	-56.10	209	1.8	H	6.1	-50.00	-13	-37.00
2539.8	-55.30	249	2.3	V	5.8	-49.50	-13	-36.50
3386.4	-52.70	268	2.3	H	6.2	-46.50	-13	-33.50
3386.4	-51.80	231	2.0	V	5.4	-46.40	-13	-33.40

1GHz-20GHz:**PCS Band (Part 24E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
GSM 1900								
Low Channel								
3700.4	-54.40	143	1.4	H	8.1	-46.30	-13	-33.30
3700.4	-52.80	112	1.2	V	7.6	-45.20	-13	-32.20
5550.6	-47.10	94	2.1	H	9.6	-37.50	-13	-24.50
5550.6	-48.10	87	2.1	V	9.1	-39.00	-13	-26.00
Middle Channel								
3760	-54.10	245	1.7	H	8.8	-45.30	-13	-32.30
3760	-50.20	43	2.3	V	8	-42.20	-13	-29.20
5640	-49.90	29	2.2	H	10.2	-39.70	-13	-26.70
5640	-49.70	281	1.2	V	9.4	-40.30	-13	-27.30
High Channel								
3819.6	-52.80	48	1.3	H	8.7	-44.10	-13	-31.10
3819.6	-46.80	322	2.1	V	7.9	-38.90	-13	-25.90
5729.4	-51.20	192	1.1	H	10.6	-40.60	-13	-27.60
5729.4	-49.60	348	2.3	V	10.2	-39.40	-13	-26.40

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 2								
Low Channel								
3704.8	-51.30	263	1.2	H	8.1	-43.20	-13	-30.20
3704.8	-46.50	108	1.6	V	7.6	-38.90	-13	-25.90
5557.2	-44.40	101	2.2	H	9.6	-34.80	-13	-21.80
5557.2	-41.40	157	2.4	V	9.1	-32.30	-13	-19.30
Middle Channel								
3760	-49.80	75	1.3	H	8.8	-41.00	-13	-28.00
3760	-46.00	75	1.2	V	8	-38.00	-13	-25.00
5640	-45.80	89	1.5	H	10.2	-35.60	-13	-22.60
5640	-43.80	255	2.1	V	9.4	-34.40	-13	-21.40
High Channel								
3815.2	-45.60	246	1.8	H	8.7	-36.90	-13	-23.90
3815.2	-43.10	63	2.1	V	7.9	-35.20	-13	-22.20
5722.8	-42.70	358	1.4	H	10.6	-32.10	-13	-19.10
5722.8	-41.20	18	2	V	10.2	-31.00	-13	-18.00

1GHz-20GHz:**AWS Band (Part 27E)**

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
WCDMA Band 4								
Low Channel								
3424.8	-48.20	160	1.9	H	6.4	-41.80	-13	-28.80
3424.8	-43.70	351	2.5	V	5.8	-37.90	-13	-24.90
5137.2	-50.10	350	1.1	H	11.4	-38.70	-13	-25.70
5137.2	-47.70	3	2.1	V	10.8	-36.90	-13	-23.90
Middle Channel								
3465.2	-48.9	95	2.2	H	7	-41.90	-13	-28.90
3465.2	-45.9	285	2.1	V	6.2	-39.70	-13	-26.70
5197.8	-49.1	301	2.5	H	10.4	-38.70	-13	-25.70
5197.8	-46.1	69	1.4	V	9.8	-36.30	-13	-23.30
High Channel								
3505.2	-48.00	26	1.5	H	7.8	-40.20	-13	-27.20
3505.2	-45.30	143	1.6	V	6.5	-38.80	-13	-25.80
5257.8	-44.70	163	1.6	H	9.4	-35.30	-13	-22.30
5257.8	-41.80	7	1.5	V	9	-32.80	-13	-19.80

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

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 2								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
3701.4	-46.20	344	1.2	H	8.1	-38.10	-13	-25.10
3701.4	-40.40	67	1.4	V	7.6	-32.80	-13	-19.80
5552.1	-40.70	205	1.7	H	9.6	-31.10	-13	-18.10
5552.1	-37.80	286	1.6	V	9.1	-28.70	-13	-15.70
QPSK, 1.4MHz bandwidth, Middle Channel								
3760	-43.00	67	1.9	H	8.8	-34.20	-13	-21.20
3760	-40.10	298	1.3	V	8	-32.10	-13	-19.10
5640	-34.90	67	1.9	H	10.2	-24.70	-13	-11.70
5640	-31.50	251	1.4	V	9.4	-22.10	-13	-9.10
QPSK, 1.4MHz bandwidth, High Channel								
3818.6	-43.30	346	2.2	H	8.7	-34.60	-13	-21.60
3818.6	-39.50	111	2	V	7.9	-31.60	-13	-18.60
5727.9	-33.80	325	1.4	H	10.6	-23.20	-13	-10.20
5727.9	-30.70	66	1.7	V	10.2	-20.50	-13	-7.50

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 4								
Test frequency range: 30MHz-20GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
3421.4	-43.80	118	2.1	H	6.4	-37.40	-13	-24.40
3421.4	-39.80	278	2	V	5.8	-34.00	-13	-21.00
5132.1	-45.10	61	2.2	H	11.4	-33.70	-13	-20.70
5132.1	-41.80	168	1.1	V	10.8	-31.00	-13	-18.00
QPSK, 1.4MHz bandwidth, Middle Channel								
3465	-45.6	34	2.3	H	7	-38.60	-13	-25.60
3465	-43.3	314	2.3	V	6.2	-37.10	-13	-24.10
5197.5	-36.9	73	1.6	H	10.4	-26.50	-13	-13.50
5197.5	-34.4	141	1.3	V	9.8	-24.60	-13	-11.60
QPSK, 1.4MHz bandwidth, High Channel								
3508.6	-42.70	181	2.1	H	7.8	-34.90	-13	-21.90
3508.6	-39.90	35	1.4	V	6.5	-33.40	-13	-20.40
5262.9	-40.80	207	2.4	H	9.4	-31.40	-13	-18.40
5262.9	-37.10	268	1.6	V	9	-28.10	-13	-15.10

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 5								
Test frequency range: 30MHz-10GHz								
QPSK, 1.4MHz bandwidth, Low Channel								
1649.4	-56.30	233	2.1	H	3.5	-52.80	-13	-39.80
1649.4	-56.60	117	1.1	V	3.1	-53.50	-13	-40.50
2474.1	-51.10	98	1.5	H	6.6	-44.50	-13	-31.50
2474.1	-49.80	124	2.3	V	5.8	-44.00	-13	-31.00
3298.8	-51.70	237	1.4	H	6.4	-45.30	-13	-32.30
3298.8	-51.20	66	1.4	V	5.7	-45.50	-13	-32.50
QPSK, 1.4MHz bandwidth, Middle Channel								
1673.0	-50.10	99	2.2	H	3.8	-46.30	-13	-33.30
1673.0	-51.70	43	1.8	V	3.1	-48.60	-13	-35.60
2509.5	-55.00	49	1.1	H	6.2	-48.80	-13	-35.80
2509.5	-50.90	83	1	V	5.6	-45.30	-13	-32.30
3346.0	-52.00	68	2.1	H	6.6	-45.40	-13	-32.40
3346.0	-50.50	244	1.9	V	5.4	-45.10	-13	-32.10
QPSK, 1.4MHz bandwidth, High Channel								
1696.6	-53.10	356	1.3	H	4.1	-49.00	-13	-36.00
1696.6	-52.30	110	1.6	V	3.1	-49.20	-13	-36.20
2544.9	-54.80	276	1.3	H	6.1	-48.70	-13	-35.70
2544.9	-52.70	87	2.2	V	5.8	-46.90	-13	-33.90
3393.2	-51.90	137	1.1	H	6.2	-45.70	-13	-32.70
3393.2	-50.40	128	1.0	V	5.4	-45.00	-13	-32.00

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 7								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz bandwidth, Low Channel								
5005	-54.10	319	1.7	H	10.8	-43.30	-25	-18.30
5005	-52.10	75	1.1	V	10.2	-41.90	-25	-16.90
7507.5	-60.00	304	1.9	H	20.4	-39.60	-25	-14.60
7507.5	-60.40	146	1	V	20.1	-40.30	-25	-15.30
QPSK, 5MHz bandwidth, Middle Channel								
5070	-54.60	304	1.1	H	11.1	-43.50	-25	-18.50
5070	-54.00	141	2.4	V	10.8	-43.20	-25	-18.20
7605	-63.30	288	1.5	H	21.2	-42.10	-25	-17.10
7605	-63.50	107	1.5	V	20.1	-43.40	-25	-18.40
QPSK, 5MHz bandwidth, High Channel								
5135	-54.20	54	1.6	H	11.3	-42.90	-25	-17.90
5135	-53.50	324	2.5	V	10.8	-42.70	-25	-17.70
7702.5	-62.40	248	1.8	H	21.2	-41.20	-25	-16.20
7702.5	-63.70	153	1	V	21	-42.70	-25	-17.70

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 12								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
1399.4	-54.3	46	1.7	H	5.9	-48.40	-13	-35.40
1399.4	-58.7	286	1.1	V	5.9	-52.80	-13	-39.80
2099.1	-48.7	198	2.2	H	6.3	-42.40	-13	-29.40
2099.1	-50.9	127	1.8	V	5.1	-45.80	-13	-32.80
2798.8	-53.8	89	2.3	H	6.7	-47.10	-13	-34.10
2798.8	-49.7	81	2.4	V	6.7	-43.00	-13	-30.00
QPSK, 5MHz bandwidth, Middle Channel								
1415	-61.5	69	2	H	5.9	-55.60	-13	-42.60
1415	-62.2	358	2.4	V	5.9	-56.30	-13	-43.30
2122.5	-49.1	305	1	H	6.3	-42.80	-13	-29.80
2122.5	-50.3	183	2.3	V	5.1	-45.20	-13	-32.20
2830	-53.1	238	2.3	H	6.7	-46.40	-13	-33.40
2830	-48.7	198	2.3	V	6.7	-42.00	-13	-29.00
QPSK, 5MHz bandwidth, High Channel								
1430.6	-61.6	103	2.1	H	5.9	-55.70	-13	-42.70
1430.6	-60.2	130	1.4	V	5.9	-54.30	-13	-41.30
2145.9	-48.8	180	1.5	H	6.3	-42.50	-13	-29.50
2145.9	-51.3	160	2.1	V	5.1	-46.20	-13	-33.20
2861.2	-54.7	86	1.2	H	6.7	-48.00	-13	-35.00
2861.2	-54.3	77	1.8	V	6.7	-47.60	-13	-34.60

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 17								
Test frequency range: 30MHz-8GHz								
QPSK, 5MHz bandwidth, Low Channel								
1413	-54.77	312	1.5	H	-0.53	-55.30	-13	-42.30
1413	-55.36	359	1.7	V	-0.74	-56.10	-13	-43.10
2119.5	-41.11	89	1.5	H	-0.89	-42.00	-13	-29.00
2119.5	-43.78	177	1.4	V	-1.12	-44.90	-13	-31.90
2826	-49.14	166	2.1	H	2.24	-46.90	-13	-33.90
2826	-46.23	198	1.4	V	2.33	-43.90	-13	-30.90
QPSK, 5MHz bandwidth, Middle Channel								
1420	-55.17	81	1.9	H	-0.53	-55.70	-13	-42.70
1420	-54.66	30	1.9	V	-0.74	-55.40	-13	-42.40
2130	-39.81	305	1.4	H	-0.89	-40.70	-13	-27.70
2130	-41.78	278	1.1	V	-1.12	-42.90	-13	-29.90
2840	-46.34	185	1.7	H	2.24	-44.10	-13	-31.10
2840	-43.23	145	1.9	V	2.33	-40.90	-13	-27.90
QPSK, 5MHz bandwidth, High Channel								
1427	-54.17	252	1.1	H	-0.53	-54.70	-13	-41.70
1427	-54.06	51	1.9	V	-0.74	-54.80	-13	-41.80
2140.5	-43.61	48	2.2	H	-0.89	-44.50	-13	-31.50
2140.5	-45.48	49	1.9	V	-1.12	-46.60	-13	-33.60
2854	-50.54	273	2.1	H	2.24	-48.30	-13	-35.30
2854	-49.33	279	1.6	V	2.33	-47.00	-13	-34.00

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 38								
Test frequency range: 30MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
5145	-54.1	300	2.2	H	11.4	-42.70	-25	-17.70
5145	-52.8	168	2.3	V	10.7	-42.10	-25	-17.10
7717.5	-62.3	165	1.1	H	20.5	-41.80	-25	-16.80
7717.5	-63.1	268	1.6	V	20.3	-42.80	-25	-17.80
QPSK, 5MHz, Middle Channel								
5190	-52.9	35	2.4	H	10.5	-42.40	-25	-17.40
5190	-51.3	148	1.8	V	10	-41.30	-25	-16.30
7785	-57.8	281	2.1	H	18.3	-39.50	-25	-14.50
7785	-60	257	2.5	V	18	-42.00	-25	-17.00
QPSK, 5MHz, High Channel								
5235	-51.2	204	1.4	H	9.7	-41.50	-25	-16.50
5235	-49.2	253	1.8	V	9.2	-40.00	-25	-15.00
7852.5	-58.2	291	2.3	H	18.2	-40.00	-25	-15.00
7852.5	-58.2	314	1.6	V	17.6	-40.60	-25	-15.60

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 41								
Test frequency range: 30 MHz-26.5GHz								
QPSK, 5MHz, Low Channel								
5075	-53.5	62	1.2	H	11.2	-42.30	-25	-17.30
5075	-52.4	336	1.3	V	10.8	-41.60	-25	-16.60
7612.5	-60.9	142	1.8	H	21.2	-39.70	-25	-14.70
7612.5	-62	206	1	V	20.2	-41.80	-25	-16.80
QPSK, 5MHz bandwidth, Middle Channel								
5190	-52.3	337	2.4	H	10.5	-41.80	-25	-16.80
5190	-50.5	344	1.9	V	10	-40.50	-25	-15.50
7785	-56.5	342	2.3	H	18.3	-38.20	-25	-13.20
7785	-59.2	179	1.4	V	18	-41.20	-25	-16.20
QPSK, 5MHz bandwidth, High Channel								
5305	-48.3	234	1.9	H	9.6	-38.70	-25	-13.70
5305	-41.8	255	2.5	V	8.8	-33.00	-25	-8.00
7957.5	-58.3	346	1.8	H	18.9	-39.40	-25	-14.40
7957.5	-59.2	113	1.5	V	18.5	-40.70	-25	-15.70

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
Band 66								
Test frequency range: 30 MHz-20GHz								
QPSK, 1.4MHz, Low Channel								
3421.4	-43.2	159	1.9	H	6.4	-36.80	-13	-23.80
3421.4	-39.5	203	1.6	V	5.7	-33.80	-13	-20.80
5132.1	-45	195	2.2	H	11.3	-33.70	-13	-20.70
5132.1	-42.2	284	2.3	V	10.8	-31.40	-13	-18.40
QPSK, 1.4MHz bandwidth, Middle Channel								
3490	-42.4	264	2.4	H	7.6	-34.80	-13	-21.80
3490	-39.6	82	1.6	V	6.4	-33.20	-13	-20.20
5235	-40.1	11	1.2	H	9.7	-30.40	-13	-17.40
5235	-37	346	1.8	V	9.2	-27.80	-13	-14.80
QPSK, 1.4MHz bandwidth, High Channel								
3598.6	-44.9	8	1.4	H	7.8	-37.10	-13	-24.10
3598.6	-37.4	45	1.8	V	7	-30.40	-13	-17.40
5397.9	-35.9	212	2.2	H	9.4	-26.50	-13	-13.50
5397.9	-33.5	14	1.2	V	8.7	-24.80	-13	-11.80

Note:

Absolute Level = Reading Level + Substituted Factor

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

Margin = Absolute Level - Limit

FCC§ 22.917 (a);§ 24.238 (a); §27.53(g) (h)(m) - BAND EDGES

Applicable Standard

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

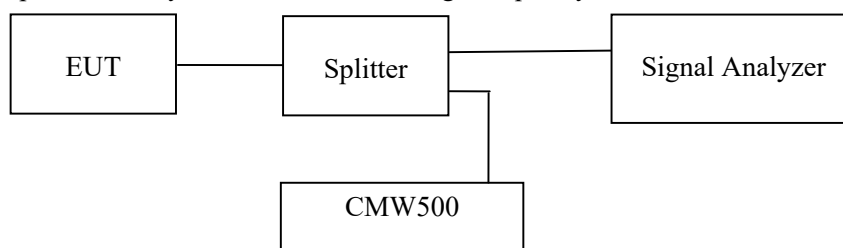
According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC §27.53 (g)(h)(m), 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.

Test Procedure

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

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



Test Data

Environmental Conditions

Temperature:	27.2 °C
Relative Humidity:	56.8 %
ATM Pressure:	101.0 kPa

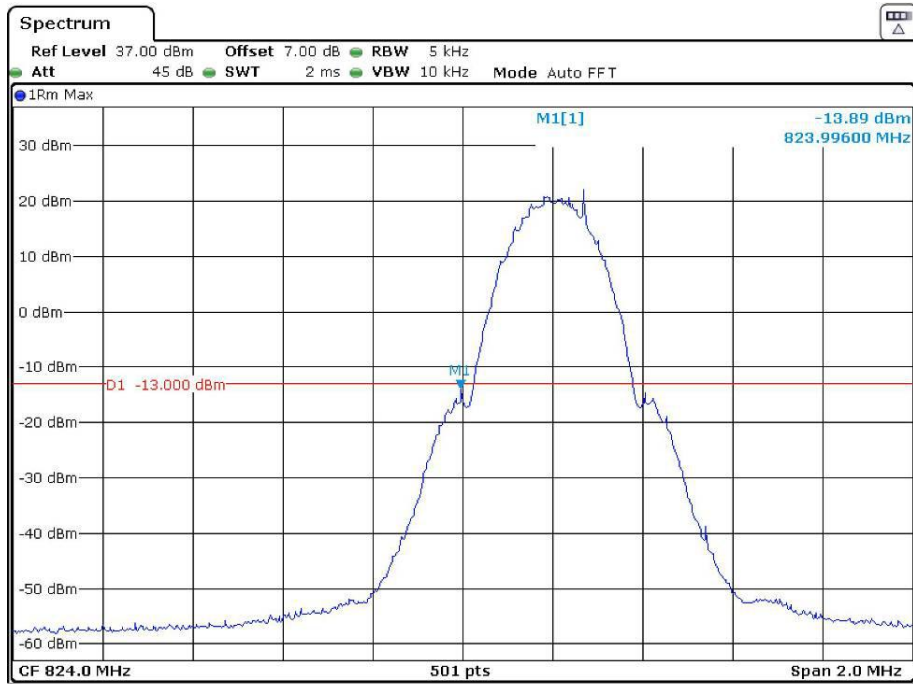
The testing was performed by Key Pei from 2022-03-29 to 2022-04-21.

EUT operation mode: Transmitting (Worst case)

Test Result: Pass

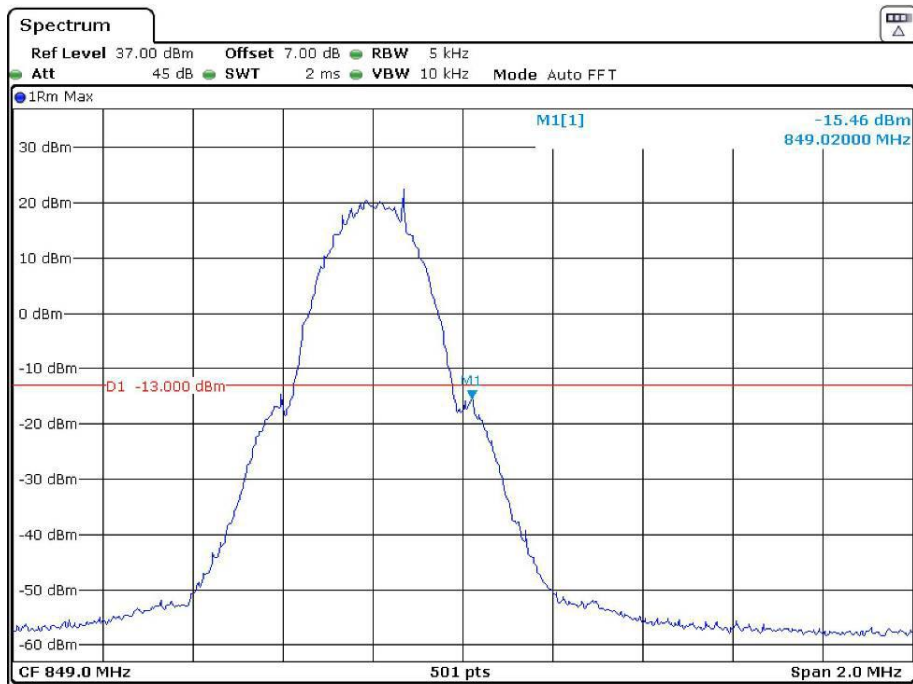
Please refer to the following plots.

Cellular Band, Left Band Edge for GSM (GMSK) Mode



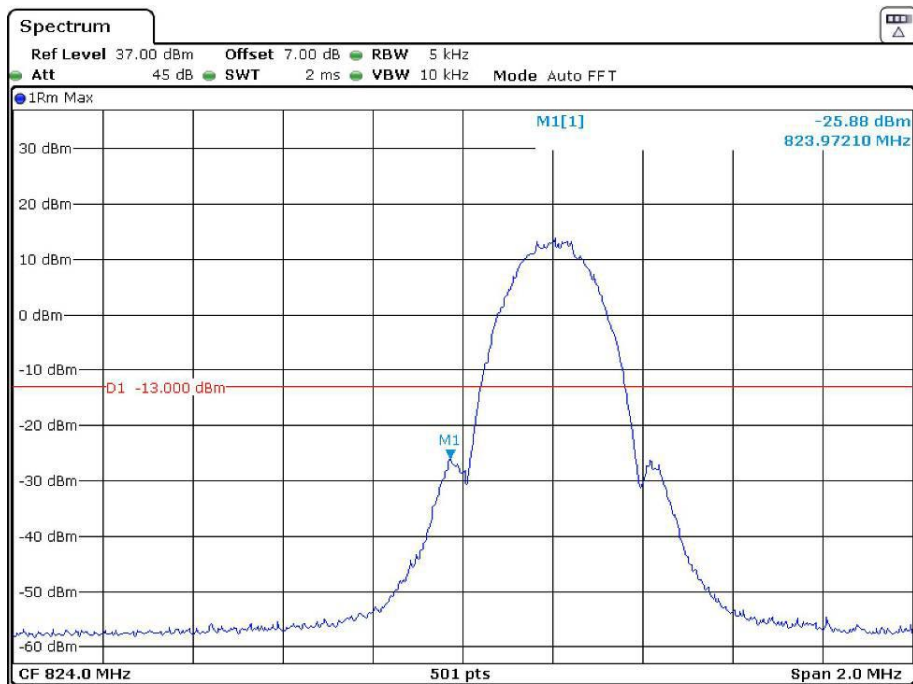
Date: 30.MAR.2022 14:33:12

Cellular Band, Right Band Edge for GSM (GMSK) Mode



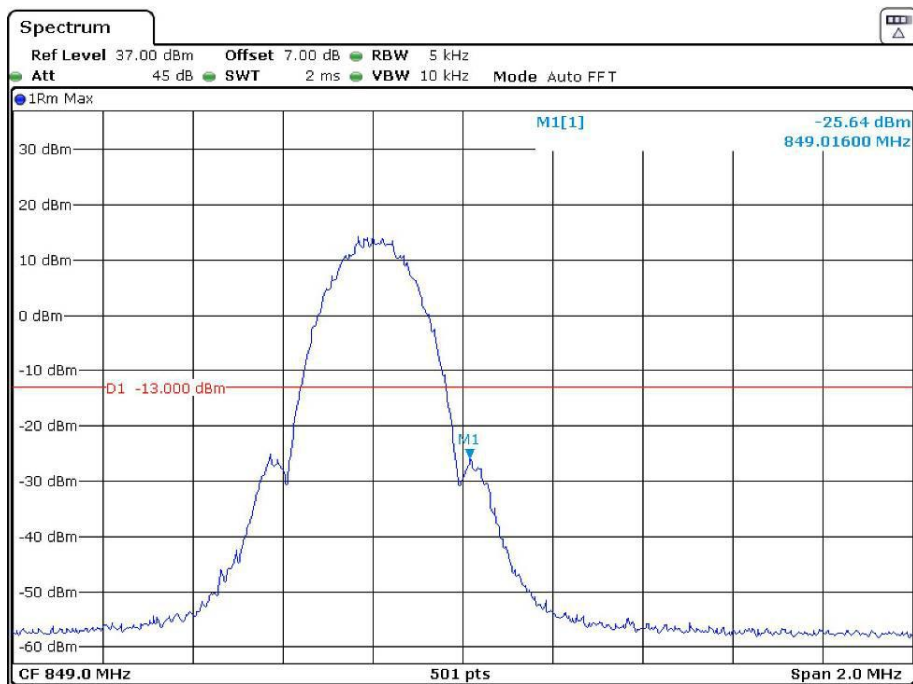
Date: 30.MAR.2022 14:33:34

Cellular Band, Left Band Edge for EGPRS (8PSK) Mode



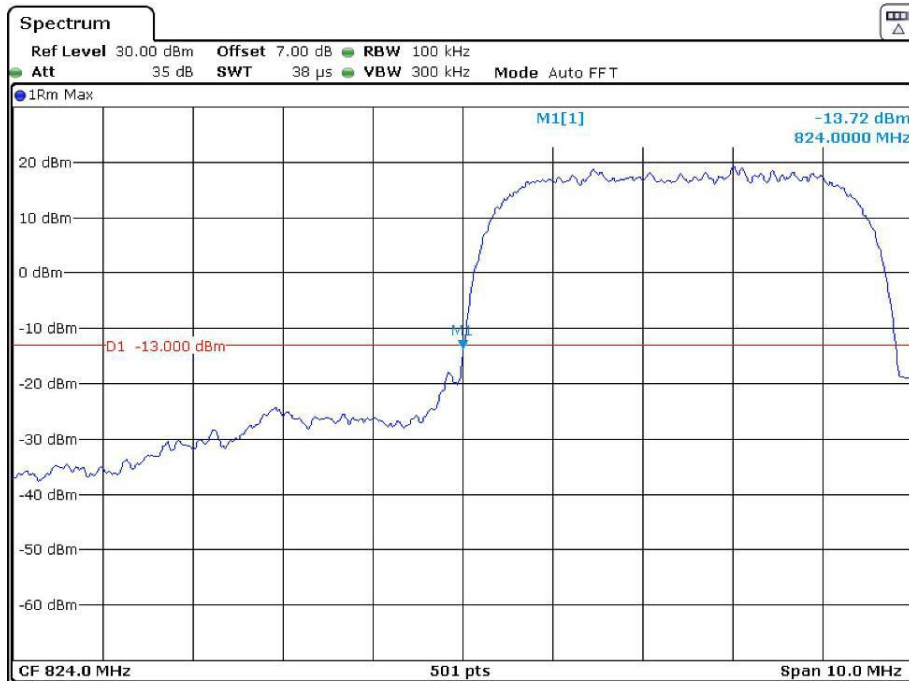
Date: 30.MAR.2022 14:35:41

Cellular Band, Right Band Edge for EGPRS (8PSK) Mode



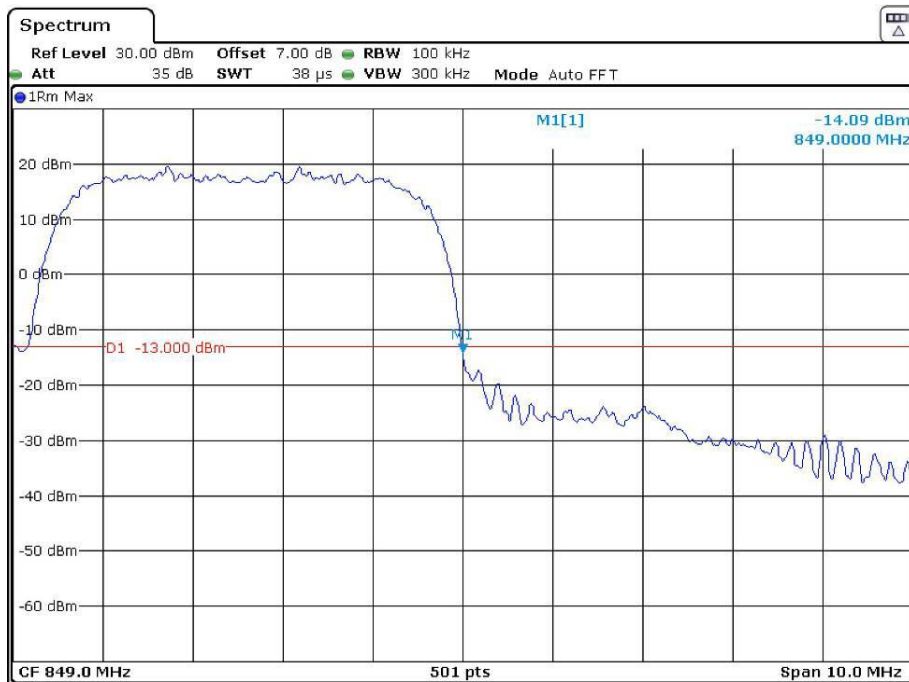
Date: 30.MAR.2022 14:35:58

Cellular Band, Left Band Edge for RMC (BPSK) Mode



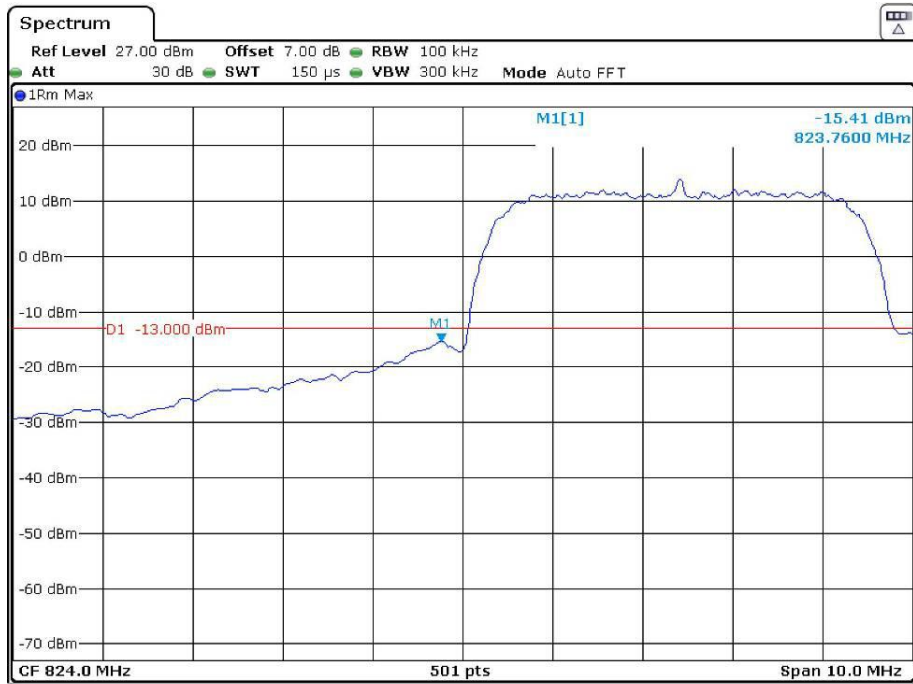
Date: 30.MAR.2022 09:07:37

Cellular Band, Right Band Edge for RMC (BPSK) Mode



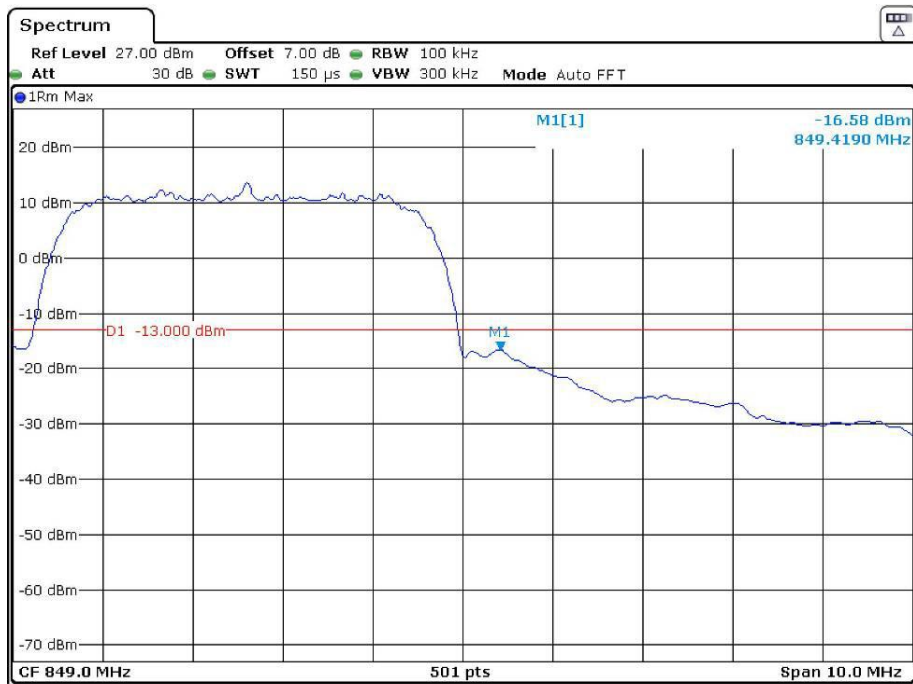
Date: 30.MAR.2022 09:07:11

Cellular Band, Left Band Edge for HSDPA(16QAM) Mode



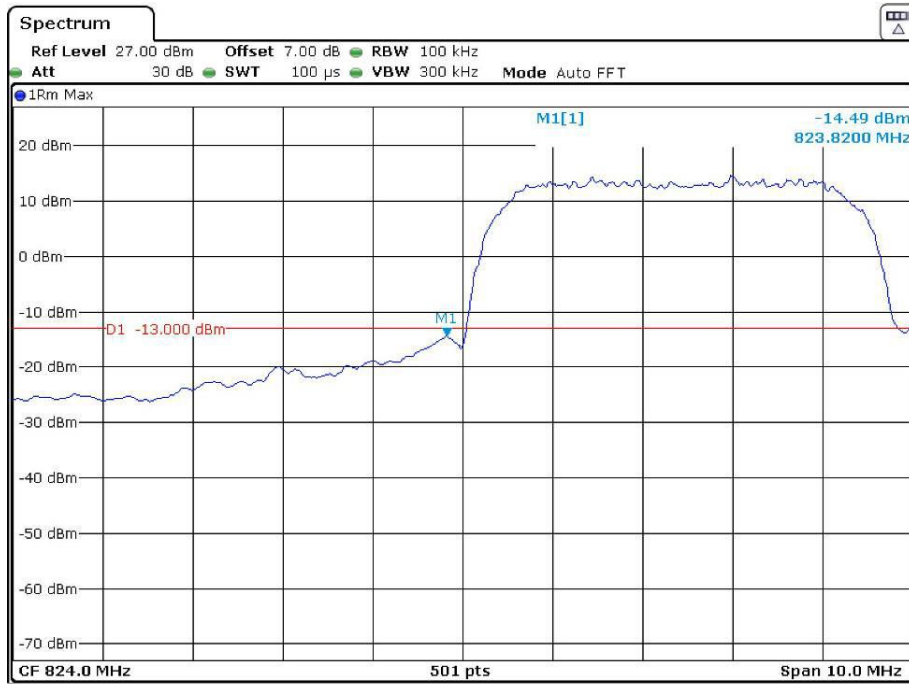
Date: 30.MAR.2022 10:09:29

Cellular Band, Right Band Edge for HSDPA (16QAM) Mode



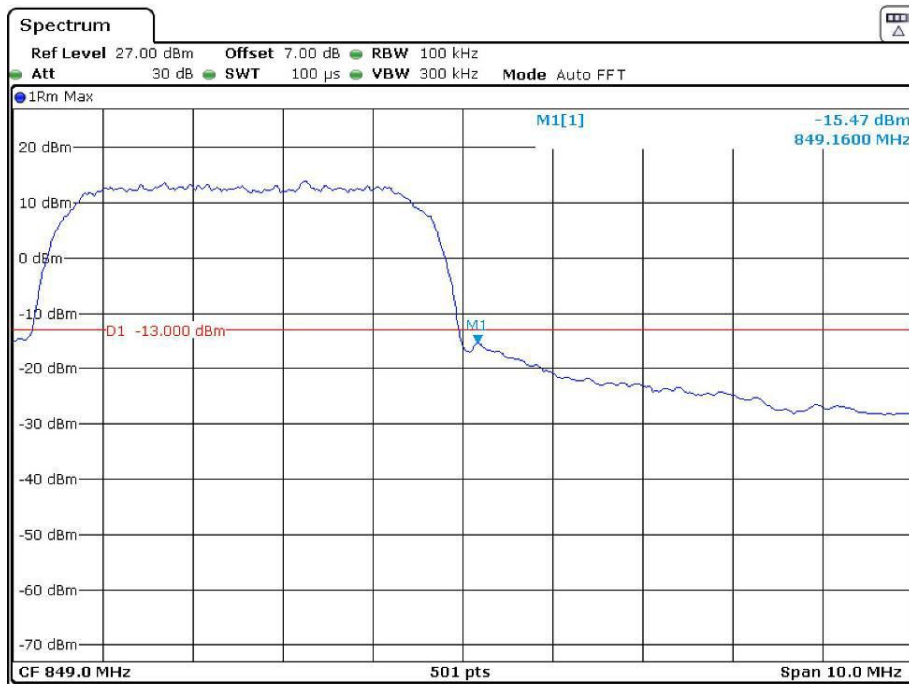
Date: 30.MAR.2022 10:08:56

Cellular Band, Left Band Edge for HSUPA (BPSK) Mode



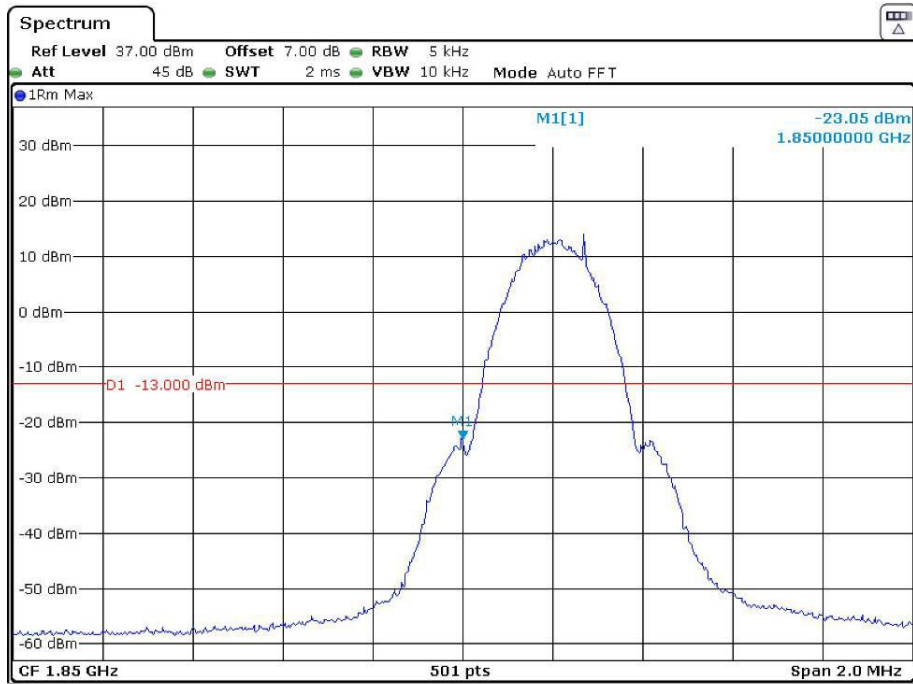
Date: 30.MAR.2022 10:20:57

Cellular Band, Right Band Edge for HSUPA (BPSK) Mode



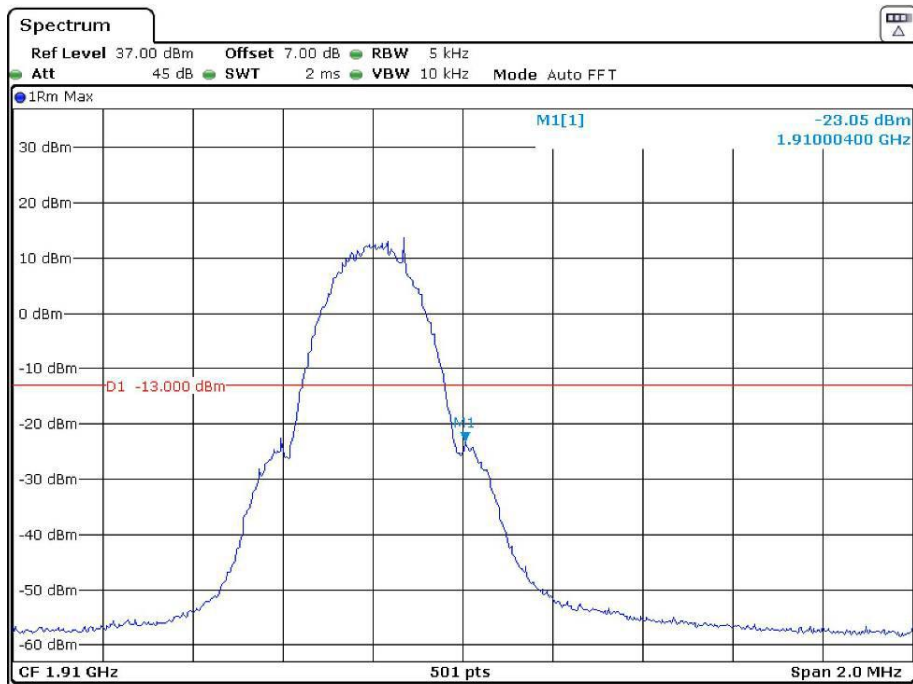
Date: 30.MAR.2022 10:21:19

PCS Band, Left Band Edge for GSM (GMSK) Mode



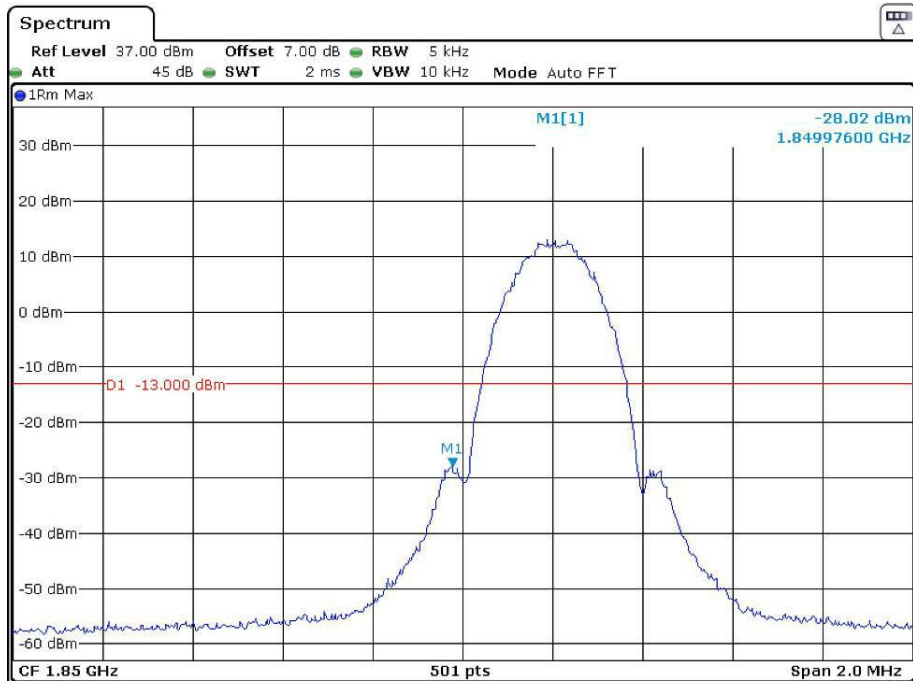
Date: 30.MAR.2022 14:59:09

PCS Band, Right Band Edge for GSM (GMSK) Mode



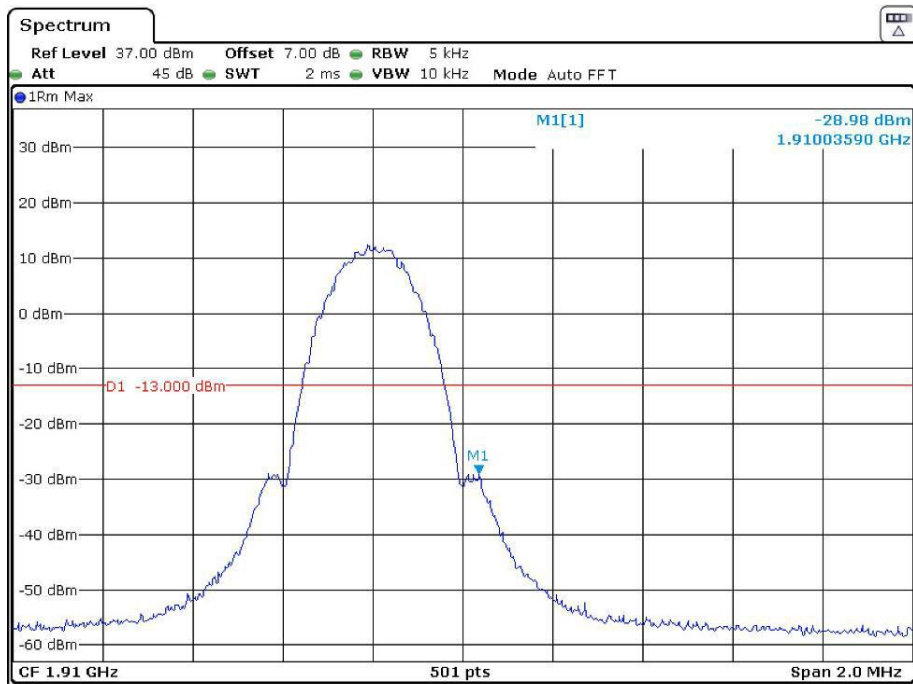
Date: 30.MAR.2022 14:57:27

PCS Band, Left Band Edge for EGPRS (8PSK) Mode



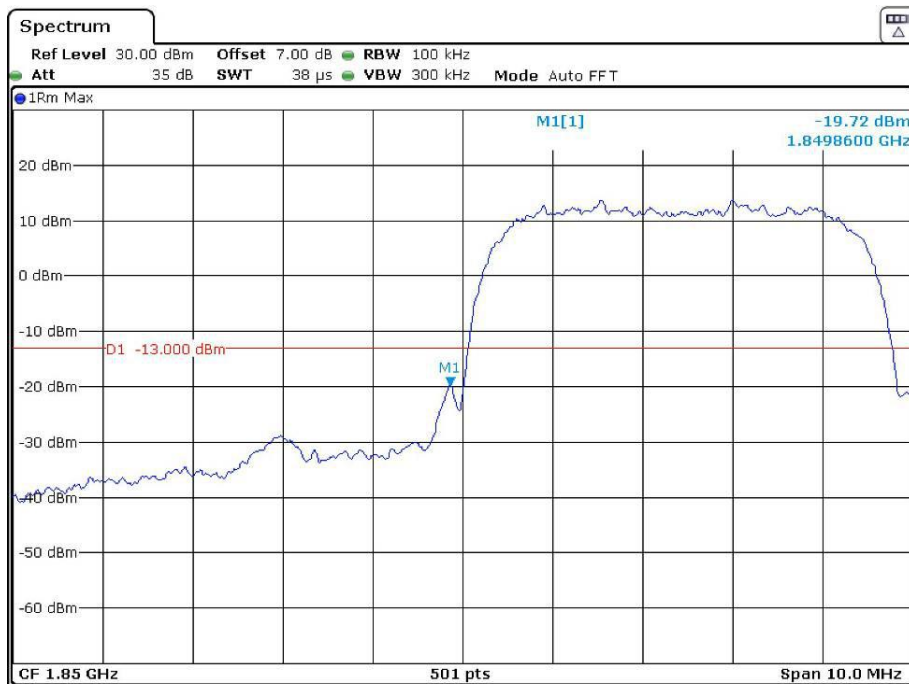
Date: 30.MAR.2022 15:00:53

PCS Band, Right Band Edge for EGPRS (8PSK) Mode



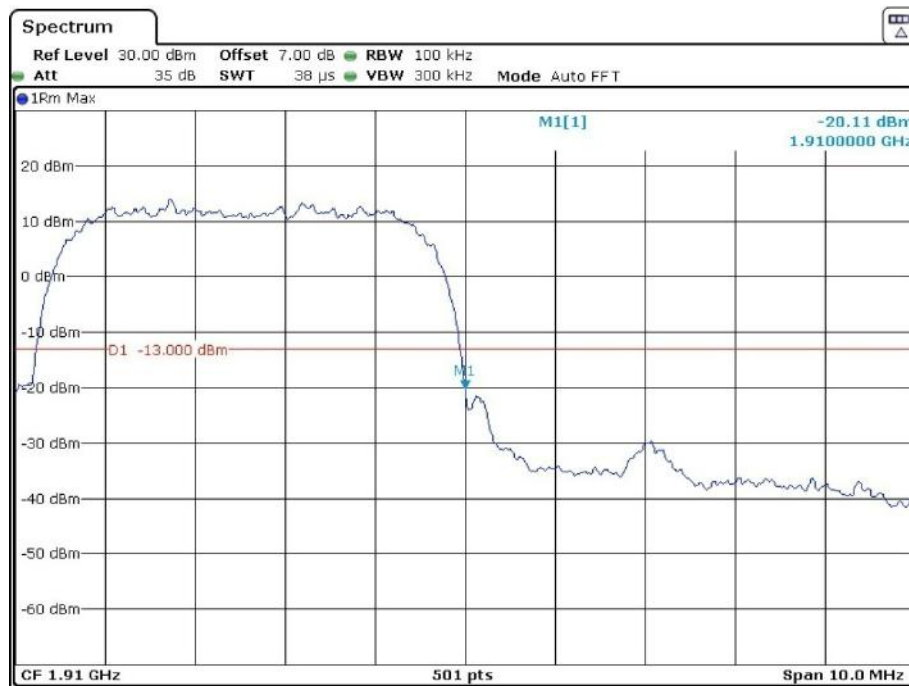
Date: 30.MAR.2022 15:01:14

PCS Band, Left Band Edge for RMC (BPSK) Mode



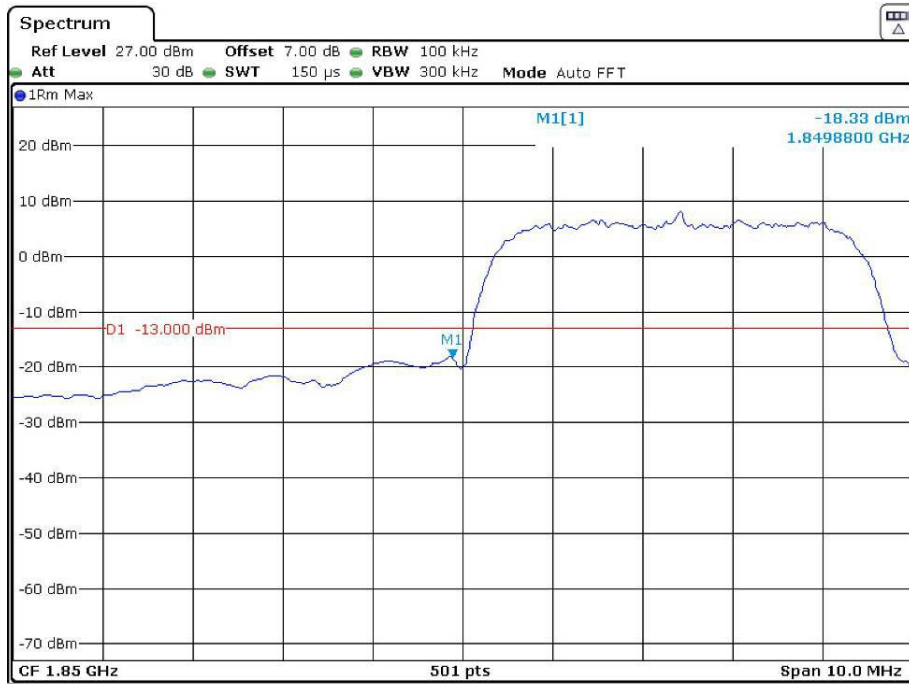
Date: 30.MAR.2022 09:09:43

PCS Band, Right Band Edge for RMC (BPSK) Mode



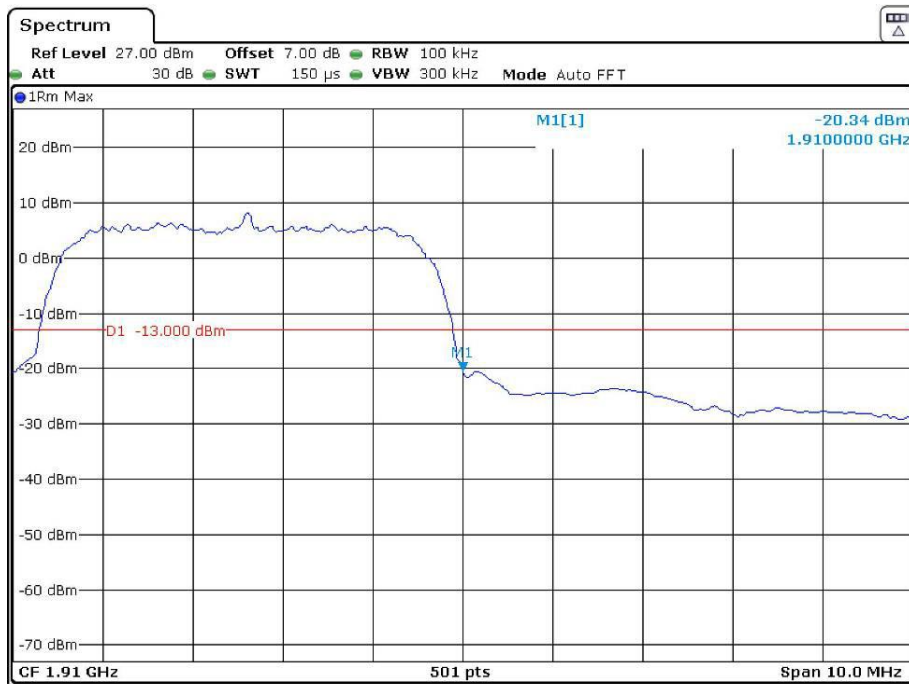
Date: 30.MAR.2022 09:10:15

PCS Band, Left Band Edge for HSDPA(16QAM) Mode



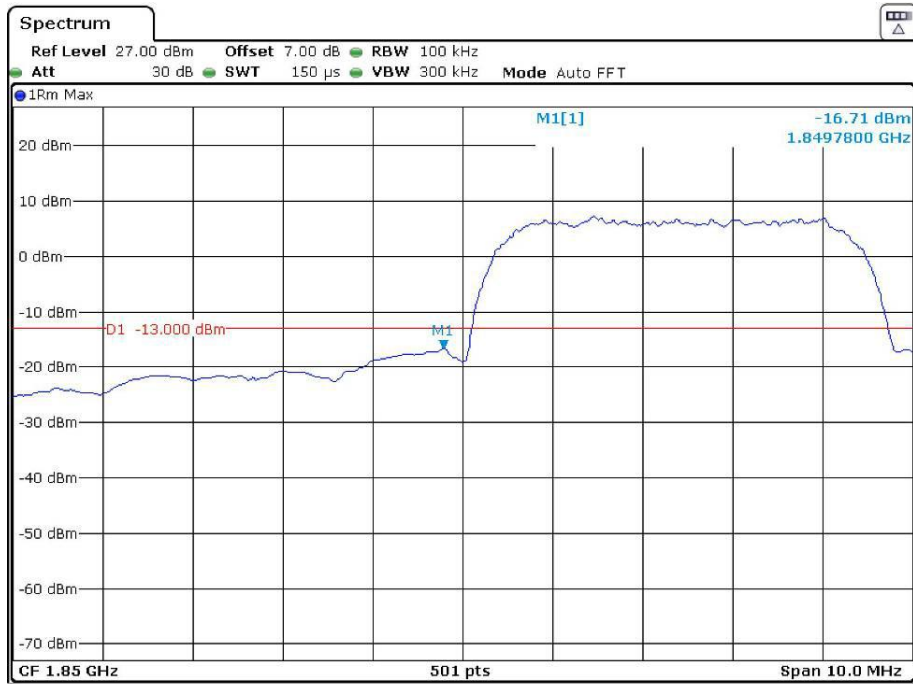
Date: 30.MAR.2022 10:10:25

PCS Band, Right Band Edge for HSDPA (16QAM) Mode



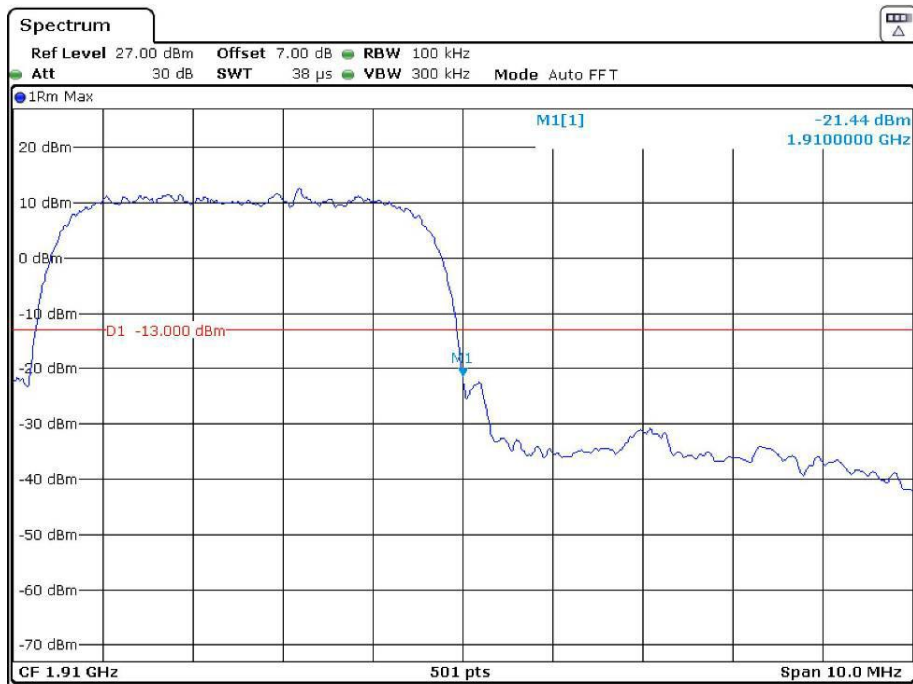
Date: 30.MAR.2022 10:10:46

PCS Band, Left Band Edge for HSUPA (QPSK) Mode



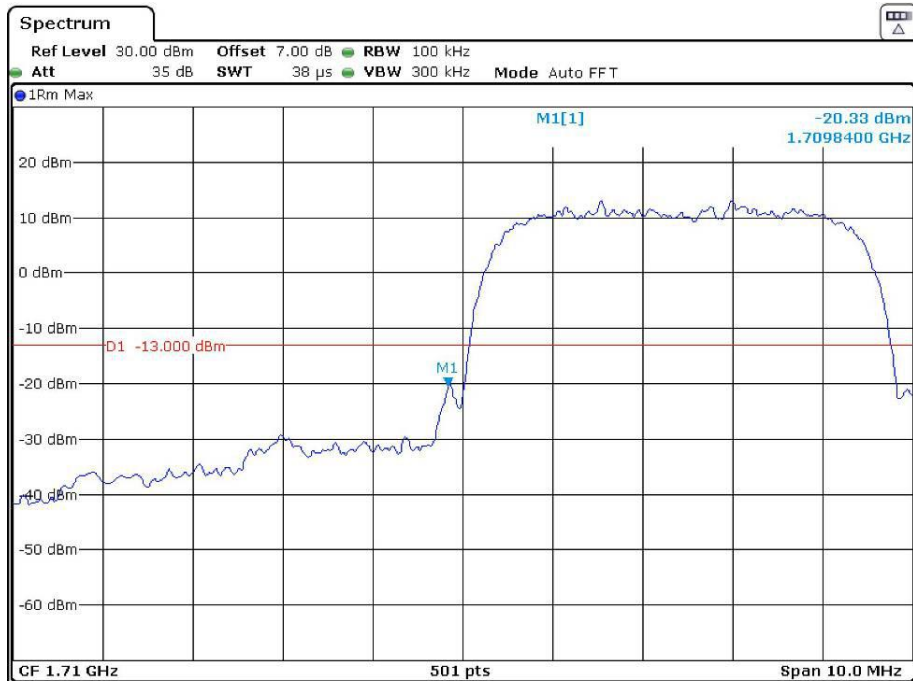
Date: 30.MAR.2022 10:18:16

PCS Band, Right Band Edge for HSUPA (QPSK) Mode



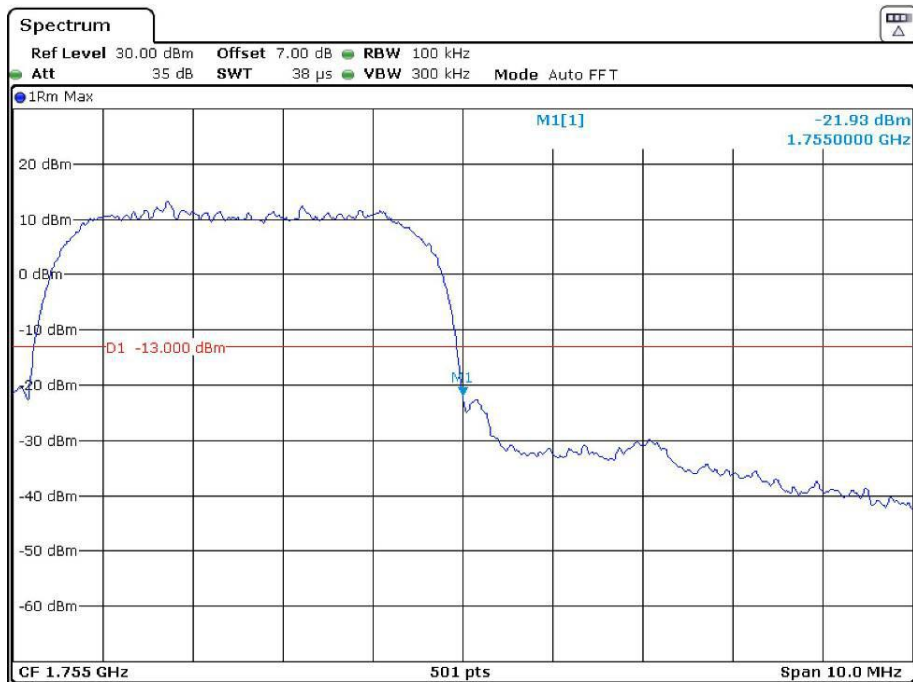
Date: 30.MAR.2022 10:18:53

AWS Band, Left Band Edge for RMC (BPSK) Mode



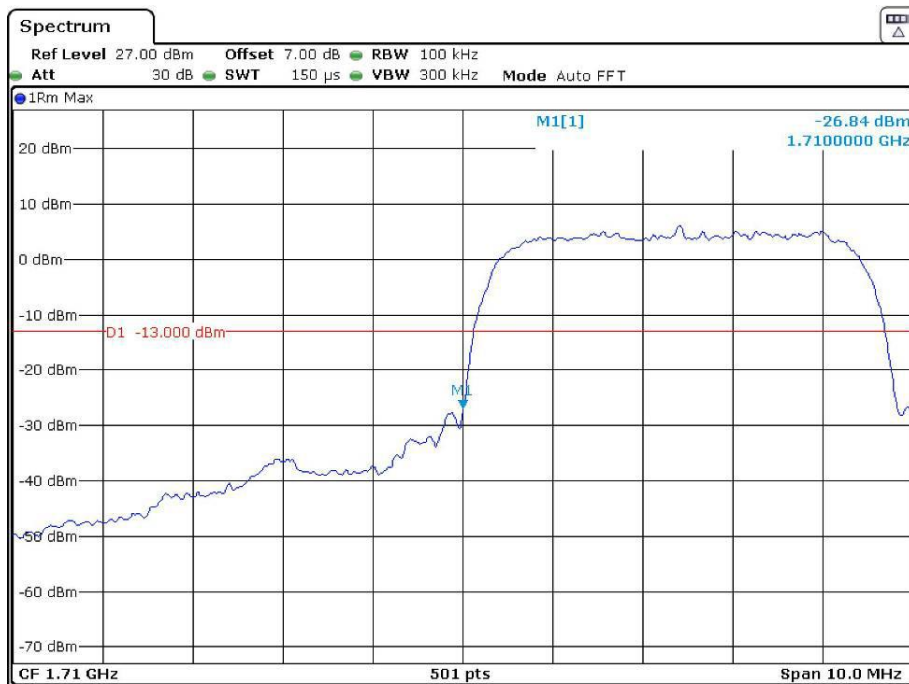
Date: 30.MAR.2022 09:08:32

AWS Band, Right Band Edge for RMC (BPSK) Mode



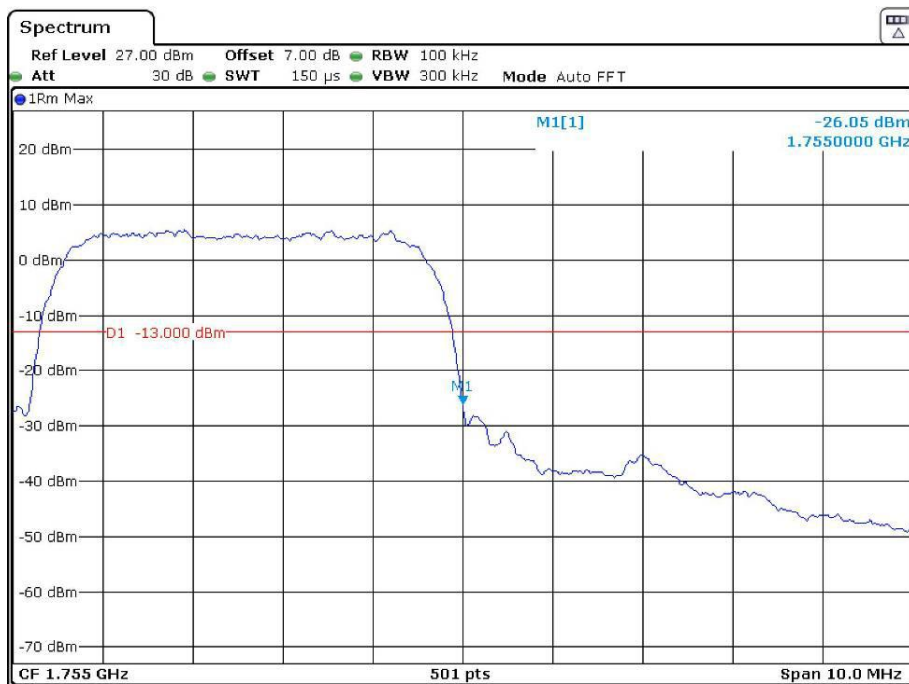
Date: 30.MAR.2022 09:08:54

AWS Band, Left Band Edge for HSDPA(16QAM) Mode



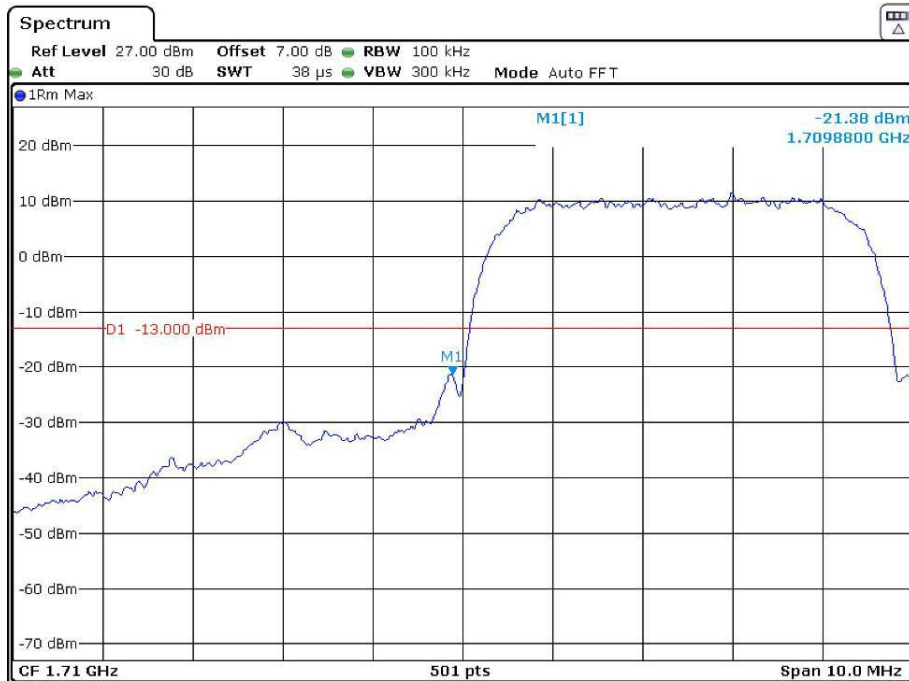
Date: 30.MAR.2022 10:11:11

AWS Band, Right Band Edge for HSDPA (16QAM) Mode



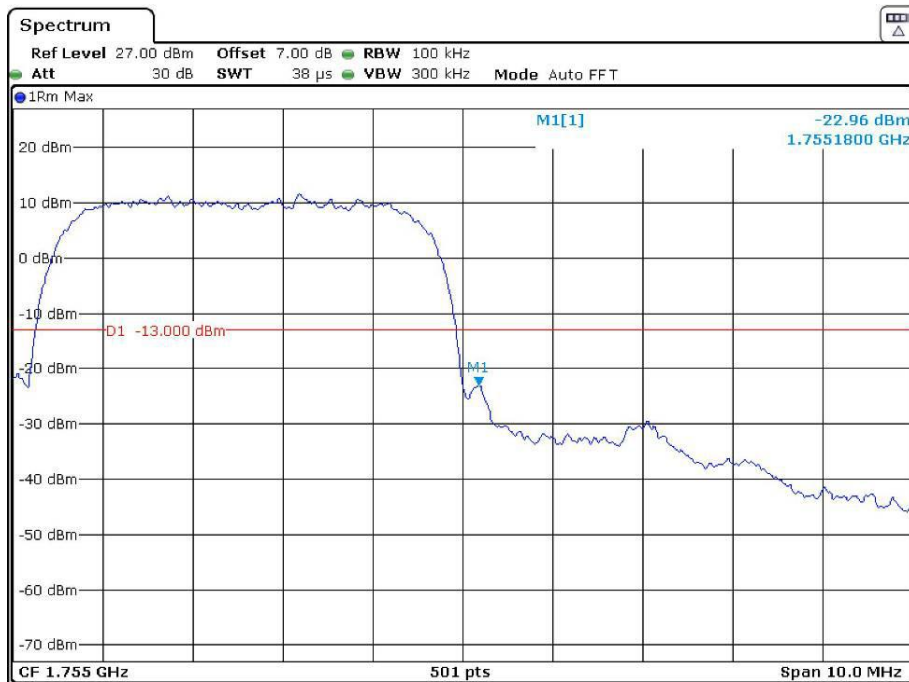
Date: 30.MAR.2022 10:11:32

AWS Band, Left Band Edge for HSUPA (QPSK) Mode



Date: 30.MAR.2022 10:19:48

AWS Band, Right Band Edge for HSUPA (QPSK) Mode



Date: 30.MAR.2022 10:20:23

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

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

Applicable Standard

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

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

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

Frequency Tolerance for Transmitters in the Public Mobile Services

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

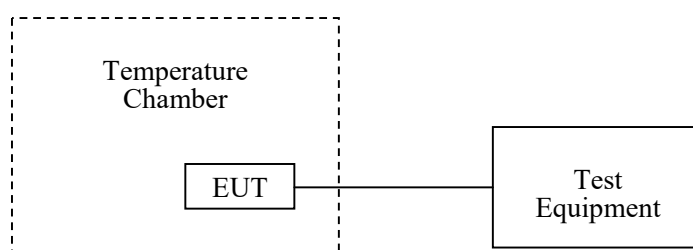
According to §24.235&§27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

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

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

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



Test Data**Environmental Conditions**

Temperature:	27.2 °C
Relative Humidity:	56.8 %
ATM Pressure:	101.0 kPa

The testing was performed by Key Pei from 2022-03-28 to 2022-03-30.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables.

Cellular Band (Part 22H)**GSM Mode**

Middle Channel, $f_0 = 836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-5	-0.0060	2.5
-20		-7	-0.0084	2.5
-10		4	0.0048	2.5
0		8	0.0096	2.5
10		3	0.0036	2.5
20		-2	-0.0024	2.5
30		6	0.0072	2.5
40		2	0.0024	2.5
50		7	0.0084	2.5
20		L.V.	8	0.0096
	H.V.	6	0.0072	2.5

EDGE Mode

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	6	0.0072	2.5
-20		4	0.0048	2.5
-10		3	0.0036	2.5
0		7	0.0084	2.5
10		9	0.0108	2.5
20		-3	-0.0036	2.5
30		4	0.0048	2.5
40		2	0.0024	2.5
50		1	0.0012	2.5
20	L.V.	8	0.0096	2.5
	H.V.	10	0.0120	2.5

WCDMA Mode

Middle Channel, $f_0=836.6\text{MHz}$				
Temperature (°C)	Voltage Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-8.58	-0.0103	2.5
-20		-11.20	-0.0134	2.5
-10		-10.17	-0.0122	2.5
0		-9.32	-0.0111	2.5
10		-9.11	-0.0109	2.5
20		-10.56	-0.0126	2.5
30		-10.77	-0.0129	2.5
40		-10.58	-0.0126	2.5
50		-9.35	-0.0112	2.5
20	L.V.	-9.89	-0.0118	2.5
	H.V.	-9.55	-0.0114	2.5

PCS Band (Part 24E)**GSM Mode**

Middle Channel, $f_0 = 1880.0$ MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	N.V.	12	0.0064	pass
-20		5	0.0027	pass
-10		9	0.0048	pass
0		10	0.0053	pass
10		12	0.0064	pass
20		28	0.0149	pass
30		6	0.0032	pass
40		7	0.0037	pass
50		13	0.0069	pass
20		L.V.	11	0.0059
	H.V.	12	0.0064	pass

EDGE Mode

Middle Channel, $f_0 = 1880.0$ MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	N.V.	14	0.0074	pass
-20		12	0.0064	pass
-10		10	0.0053	pass
0		6	0.0032	pass
10		14	0.0074	pass
20		27	0.0144	pass
30		11	0.0059	pass
40		16	0.0085	pass
50		10	0.0053	pass
20		L.V.	8	0.0043
	H.V.	12	0.0064	pass

WCDMA Mode

Middle Channel, $f_0=1880.0$ MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	N.V.	-8.11	-0.0043	pass
-20		-11.14	-0.0059	pass
-10		-8.18	-0.0044	pass
0		-6.15	-0.0033	pass
10		-9.13	-0.0049	pass
20		-7.05	-0.0038	pass
30		-8.84	-0.0047	pass
40		-10.17	-0.0054	pass
50		-12.16	-0.0065	pass
20	L.V.	-13.15	-0.0070	pass
	H.V.	-10.72	-0.0057	pass

AWS Band (Part 27)

Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0171	1754.9726	1710	1755
-20		1710.0165	1754.9725	1710	1755
-10		1710.0152	1754.9714	1710	1755
0		1710.0147	1754.9736	1710	1755
10		1710.0132	1754.9745	1710	1755
20		1710.0125	1754.9726	1710	1755
30		1710.0134	1754.9724	1710	1755
40		1710.0125	1754.9738	1710	1755
50		1710.0133	1754.9737	1710	1755
20	L.V.	1710.0137	1754.9725	1710	1755
	H.V.	1710.0142	1754.9732	1710	1755

LTE:
QPSK:
Band 2:

10.0 MHz Middle Channel, $f_0=1880\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	N.V.	-6.65	-0.0035	pass
-20		-9.97	-0.0053	pass
-10		-6.13	-0.0033	pass
0		6.17	0.0033	pass
10		7.92	0.0042	pass
20		6.46	0.0034	pass
30		-6.52	-0.0035	pass
40		7.18	0.0038	pass
50		-9.69	-0.0052	pass
20		L.V.	-8.17	-0.0043
	H.V.	-7.05	-0.0038	pass

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.1182	1754.8735	1710	1755
-20		1710.1155	1754.8738	1710	1755
-10		1710.1193	1754.8772	1710	1755
0		1710.1154	1754.8734	1710	1755
10		1710.1145	1754.8754	1710	1755
20		1710.1142	1754.8745	1710	1755
30		1710.1136	1754.8757	1710	1755
40		1710.1122	1754.8732	1710	1755
50		1710.1124	1754.8745	1710	1755
20		L.V.	1710.1139	1754.8732	1710
	H.V.	1710.1045	1754.8747	1710	1755

Band 5:

10.0 MHz Middle Channel, $f_0=836.5\text{MHz}$				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-8.27	-0.0099	2.5
-20		-6.97	-0.0083	2.5
-10		-5.50	-0.0066	2.5
0		6.06	0.0072	2.5
10		9.80	0.0117	2.5
20		5.03	0.0060	2.5
30		-6.62	-0.0079	2.5
40		-8.73	-0.0104	2.5
50		-7.05	-0.0084	2.5
20	L.V.	8.99	0.0107	2.5
	H.V.	-7.17	-0.0086	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2500.8783	2569.9857	2500	2570
-20		2500.8797	2569.9942	2500	2570
-10		2500.8782	2569.9857	2500	2570
0		2500.8779	2569.9765	2500	2570
10		2500.7983	2569.9823	2500	2570
20		2500.7858	2569.9426	2500	2570
30		2500.7759	2569.9332	2500	2570
40		2500.7654	2569.9927	2500	2570
50		2500.7562	2569.9875	2500	2570
20	L.V.	2500.7522	2569.9852	2500	2570
	H.V.	2500.7431	2569.9744	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.9632	715.8879	699	716
-20		699.9643	715.7725	699	716
-10		699.4524	715.7457	699	716
0		699.4426	715.7636	699	716
10		699.3237	715.5418	699	716
20		699.4425	715.5283	699	716
30		699.2282	715.6325	699	716
40		699.3344	715.6317	699	716
50		699.4249	715.5456	699	716
20		L.V.	699.3378	715.5672	699
	H.V.	699.3377	715.5578	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.3393	715.8826	704	716
-20		704.3154	715.8767	704	716
-10		704.2587	715.8425	704	716
0		704.2613	715.8514	704	716
10		704.5142	715.4683	704	716
20		704.5025	715.4525	704	716
30		704.4564	715.3342	704	716
40		704.3566	715.3628	704	716
50		704.3327	715.2837	704	716
20		L.V.	704.2957	715.2643	704
	H.V.	704.3116	715.3312	704	716

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.8375	2619.9828	2570	2620
-20		2570.8072	2619.8724	2570	2620
-10		2570.7246	2619.7635	2570	2620
0		2570.6152	2619.6553	2570	2620
10		2570.5054	2619.5426	2570	2620
20		2570.3937	2619.4325	2570	2620
30		2570.2834	2619.3224	2570	2620
40		2570.1722	2619.2123	2570	2620
50		2570.1616	2619.1327	2570	2620
20	L.V.	2570.1527	2619.1226	2570	2620
	H.V.	2570.1826	2619.1125	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.9754	2654.9877	2535	2655
-20		2535.8672	2654.8853	2535	2655
-10		2535.7568	2654.7767	2535	2655
0		2535.6426	2654.6652	2535	2655
10		2535.5322	2654.5556	2535	2655
20		2535.4228	2654.4434	2535	2655
30		2535.3156	2654.3355	2535	2655
40		2535.2157	2654.2237	2535	2655
50		2535.2934	2654.1062	2535	2655
20		L.V.	2535.8625	2654.0034	2535
	H.V.	2535.8526	2654.0015	2535	2655

Note: the applicant declared the operating frequency range 2535-2655MHz.

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0245	1779.9727	1710	1780
-20		1710.0234	1779.9726	1710	1780
-10		1710.0247	1779.9833	1710	1780
0		1710.0236	1779.9757	1710	1780
10		1710.0234	1779.9756	1710	1780
20		1710.0226	1779.9742	1710	1780
30		1710.0258	1779.9744	1710	1780
40		1710.0257	1779.9753	1710	1780
50		1710.0224	1779.9824	1710	1780
20	L.V.	1710.0225	1779.9727	1710	1780
	H.V.	1710.0226	1779.9752	1710	1780

16QAM:**Band 2:**

10.0 MHz Middle Channel, f ₀ =1880MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	N.V.	-7.35	-0.0039	pass
-20		-6.68	-0.0036	pass
-10		9.77	0.0052	pass
0		-7.62	-0.0041	pass
10		-9.91	-0.0053	pass
20		-9.82	-0.0052	pass
30		-6.68	-0.0036	pass
40		-8.85	-0.0047	pass
50		5.67	0.0030	pass
20	L.V.	6.05	0.0032	pass
	H.V.	7.52	0.0040	pass

Band 4:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.2964	1754.7675	1710	1755
-20		1710.2952	1754.7564	1710	1755
-10		1710.2752	1754.7673	1710	1755
0		1710.2653	1754.7454	1710	1755
10		1710.2632	1754.7436	1710	1755
20		1710.2645	1754.7627	1710	1755
30		1710.2577	1754.7622	1710	1755
40		1710.2654	1754.7656	1710	1755
50		1710.2611	1754.7751	1710	1755
20	L.V.	1710.2624	1754.7535	1710	1755
	H.V.	1710.2716	1754.7522	1710	1755

Band 5:

10.0 MHz Middle Channel, f ₀ = 836.5MHz				
Temperature (°C)	Voltage Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	N.V.	-6.54	-0.0078	2.5
-20		8.10	0.0097	2.5
-10		-8.59	-0.0103	2.5
0		9.33	0.0112	2.5
10		-6.94	-0.0083	2.5
20		7.54	0.0090	2.5
30		6.43	0.0077	2.5
40		-6.17	-0.0074	2.5
50		-6.44	-0.0077	2.5
20	L.V.	6.34	0.0076	2.5
	H.V.	-6.89	-0.0082	2.5

Band 7:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2500.8457	2569.8375	2500	2570
-20		2500.8423	2569.8556	2500	2570
-10		2500.7642	2569.8427	2500	2570
0		2500.7256	2569.8532	2500	2570
10		2500.6328	2569.8286	2500	2570
20		2500.6237	2569.7825	2500	2570
30		2500.6352	2569.7833	2500	2570
40		2500.6223	2569.8427	2500	2570
50		2500.6227	2569.8454	2500	2570
20	L.V.	2500.6235	2569.8352	2500	2570
	H.V.	2500.6142	2569.8235	2500	2570

Band 12:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	699.3127	715.7366	699	716
-20		699.3132	715.6224	699	716
-10		699.3014	715.5952	699	716
0		699.2913	715.6127	699	716
10		699.1728	715.3955	699	716
20		699.2915	715.3772	699	716
30		699.0783	715.4814	699	716
40		699.1834	715.3915	699	716
50		699.2737	715.3947	699	716
20	L.V.	699.1853	715.4162	699	716
	H.V.	699.1864	715.4174	699	716

Band 17:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	704.3367	715.8873	704	716
-20		704.5982	715.7657	704	716
-10		704.2985	715.6982	704	716
0		704.2684	715.6455	704	716
10		704.3323	715.4984	704	716
20		704.3592	715.4582	704	716
30		704.6237	715.5933	704	716
40		704.5681	715.5531	704	716
50		704.2692	715.4932	704	716
20		L.V.	704.2854	715.5863	704
	H.V.	704.3325	715.5324	704	716

Band 38:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2570.9852	2619.9854	2570	2620
-20		2570.8922	2619.8765	2570	2620
-10		2570.7823	2619.7632	2570	2620
0		2570.6734	2619.6556	2570	2620
10		2570.5632	2619.5494	2570	2620
20		2570.4524	2619.4341	2570	2620
30		2570.3412	2619.3292	2570	2620
40		2570.2377	2619.2118	2570	2620
50		2570.1283	2619.1125	2570	2620
20		L.V.	2570.2175	2619.8786	2570
	H.V.	2570.2132	2619.7632	2570	2620

Band 41:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	2535.9437	2654.9652	2535	2655
-20		2535.8444	2654.8587	2535	2655
-10		2535.7378	2654.7482	2535	2655
0		2535.6266	2654.6378	2535	2655
10		2535.5137	2654.5282	2535	2655
20		2535.4175	2654.4182	2535	2655
30		2535.2982	2654.3587	2535	2655
40		2535.1888	2654.1986	2535	2655
50		2535.1823	2654.1882	2535	2655
20	L.V.	2535.1617	2654.0768	2535	2655
	H.V.	2535.0576	2654.0347	2535	2655

Note: the applicant declared the operating frequency range is 2535-2655MHz.

Band 66:

10 MHz Bandwidth					
Temperature (°C)	Power Supplied (V _{DC})	F _L (MHz)	F _H (MHz)	F _L Limit (MHz)	F _H Limit (MHz)
-30	N.V.	1710.0271	1779.8392	1710	1780
-20		1710.0247	1779.8447	1710	1780
-10		1710.0242	1779.8366	1710	1780
0		1710.0273	1779.8357	1710	1780
10		1710.0262	1779.8362	1710	1780
20		1710.0235	1779.8337	1710	1780
30		1710.0242	1779.8341	1710	1780
40		1710.0243	1779.8355	1710	1780
50		1710.0237	1779.8376	1710	1780
20		L.V.	1710.0291	1779.8357	1710
	H.V.	1710.0282	1779.8356	1710	1780

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