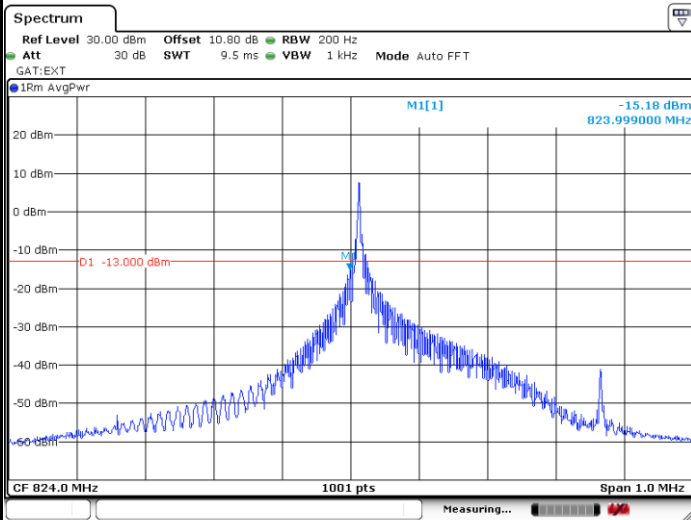
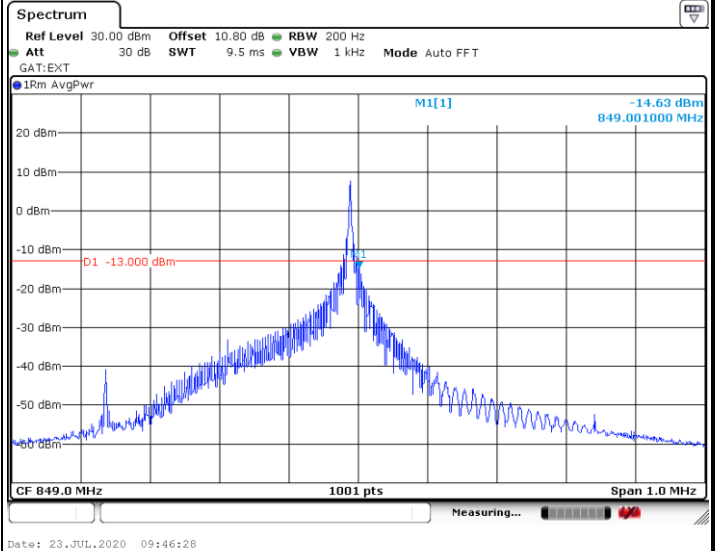
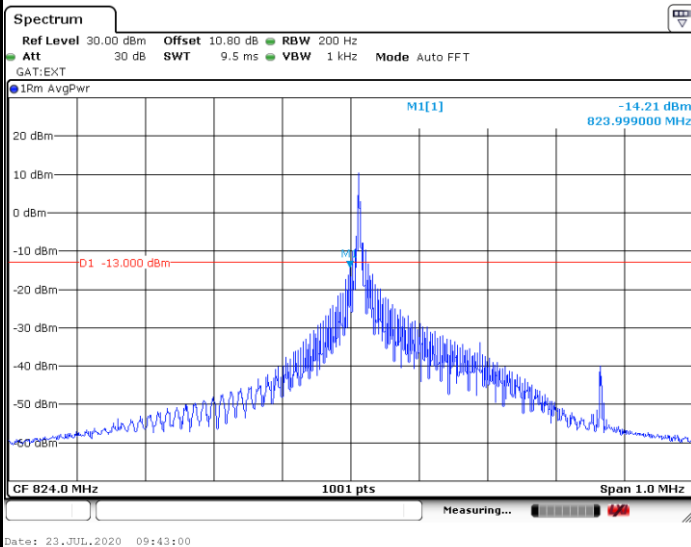
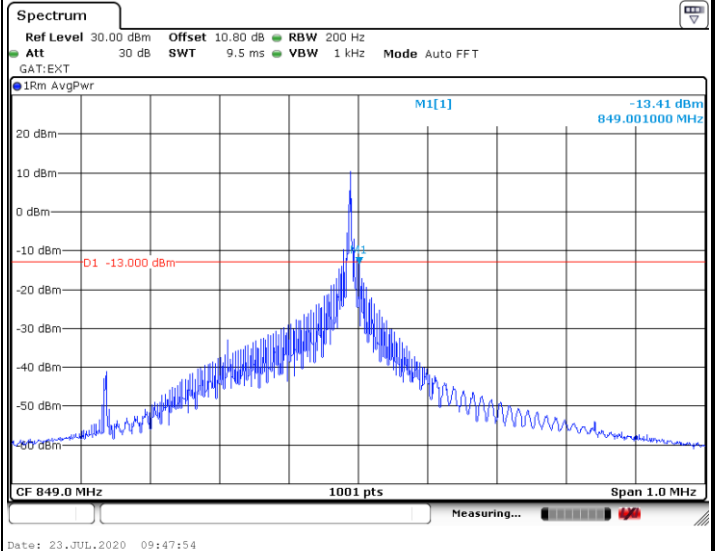
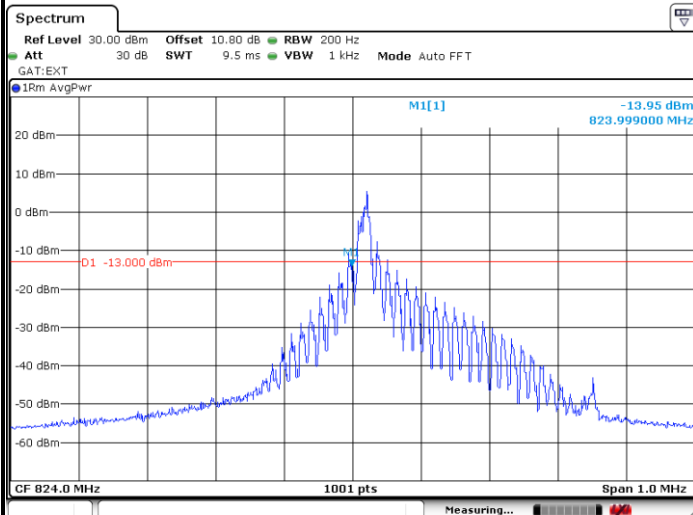


**Conducted Band Edge****LTE Band 5 / 3.75kHz / BPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T****LTE Band 2 / 3.75kHz / QPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T**



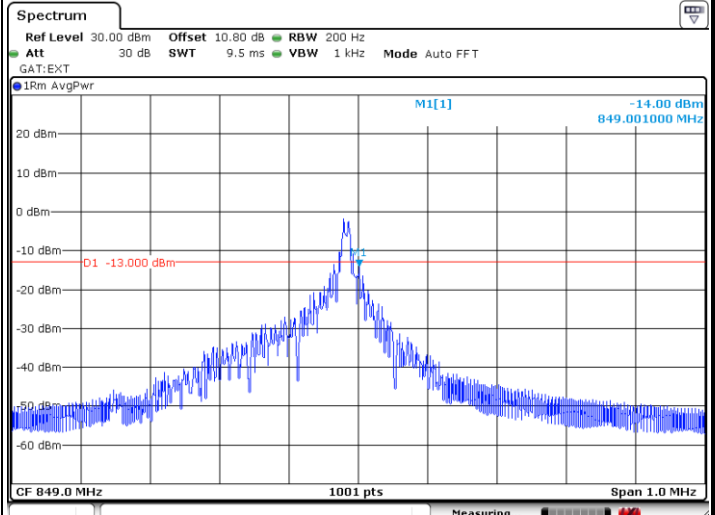
LTE Band 2 / 15kHz / BPSK

Lowest Band Edge / 1 T



Date: 23.JUL.2020 09:34:04

Highest Band Edge / 1 T

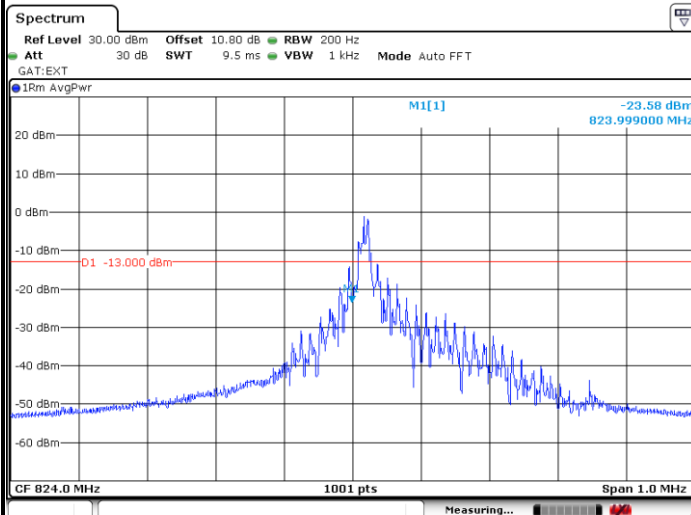


Date: 23.JUL.2020 10:10:39

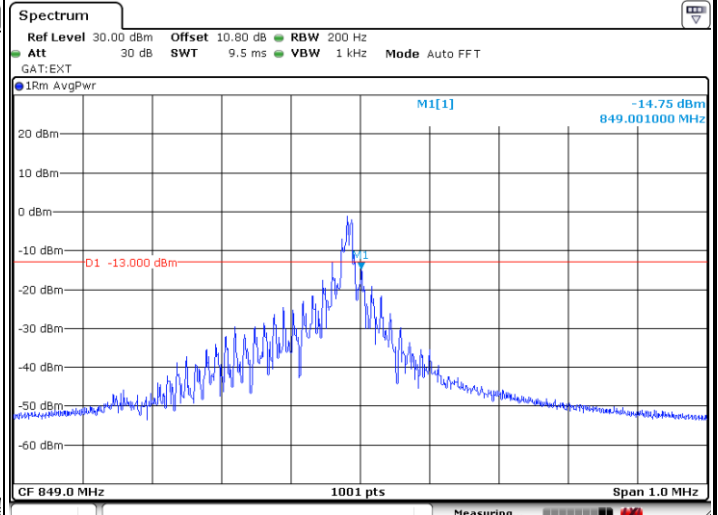


LTE Band 5 / 15kHz / QPSK

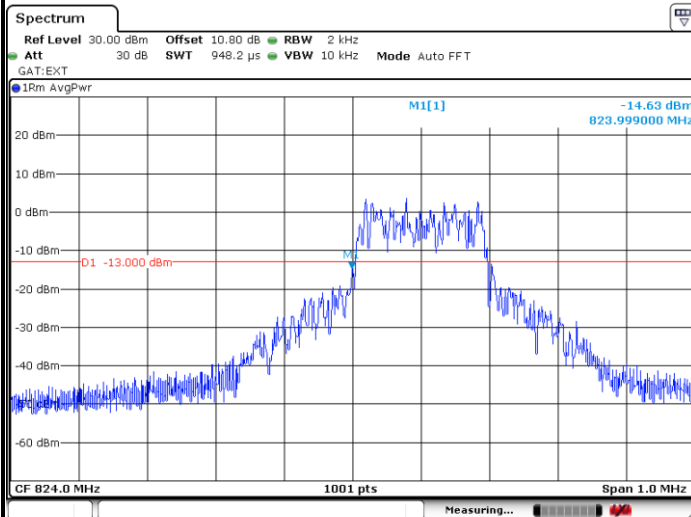
Lowest Band Edge / 1 T



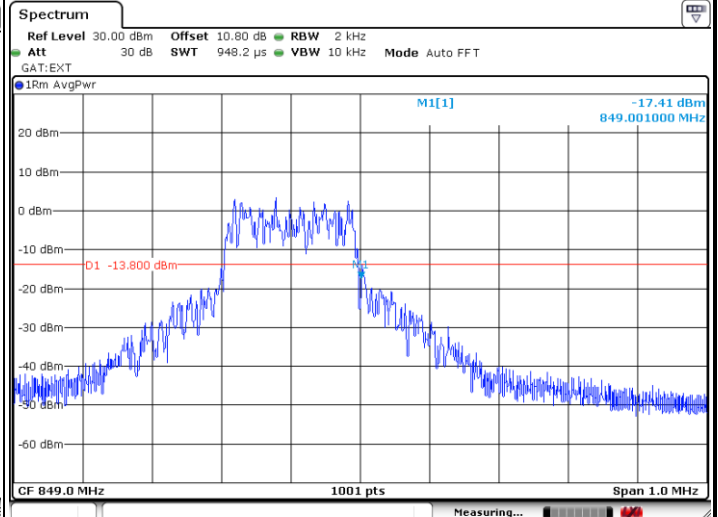
Highest Band Edge / 1 T

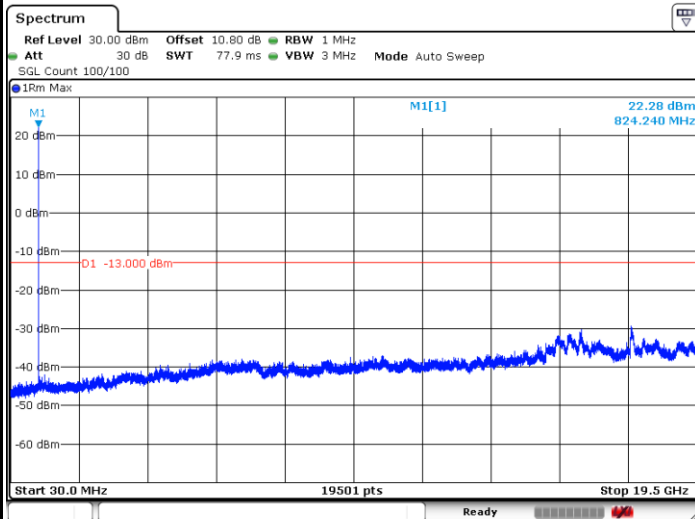
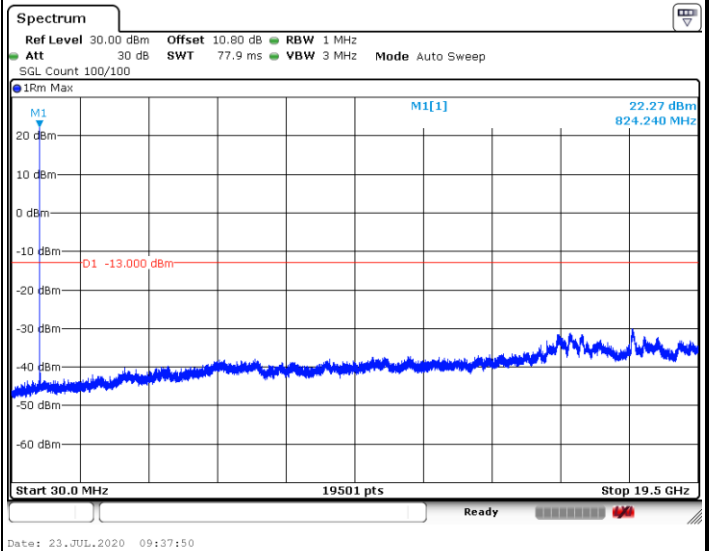
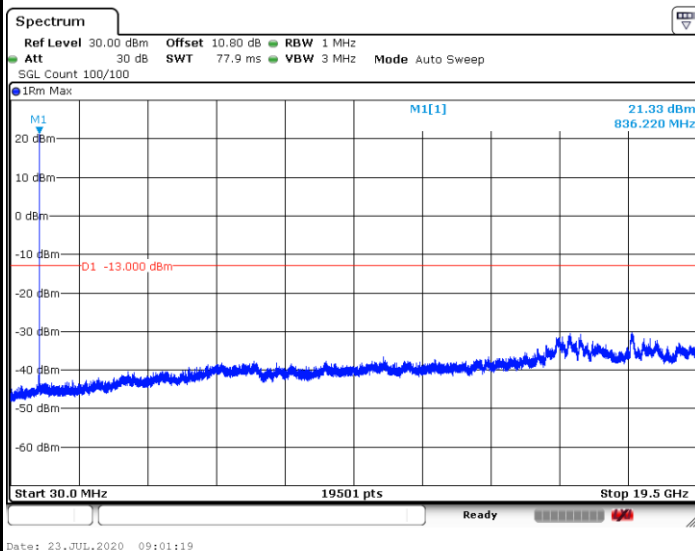
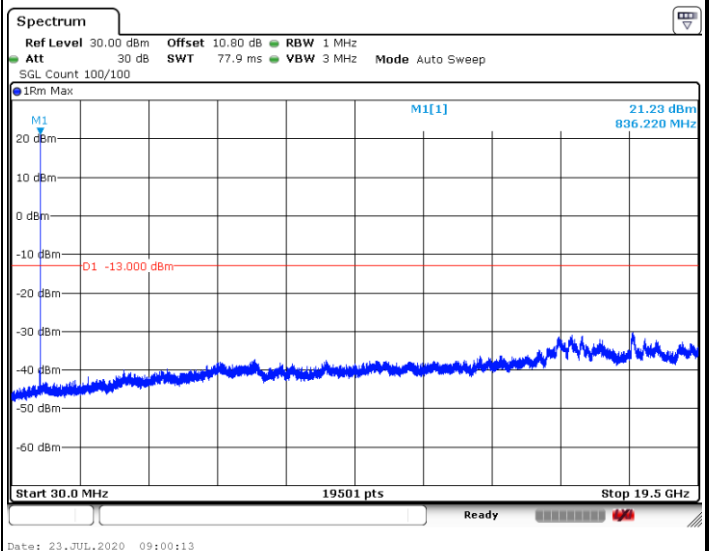


Lowest Band Edge / Full T



Highest Band Edge / Full T



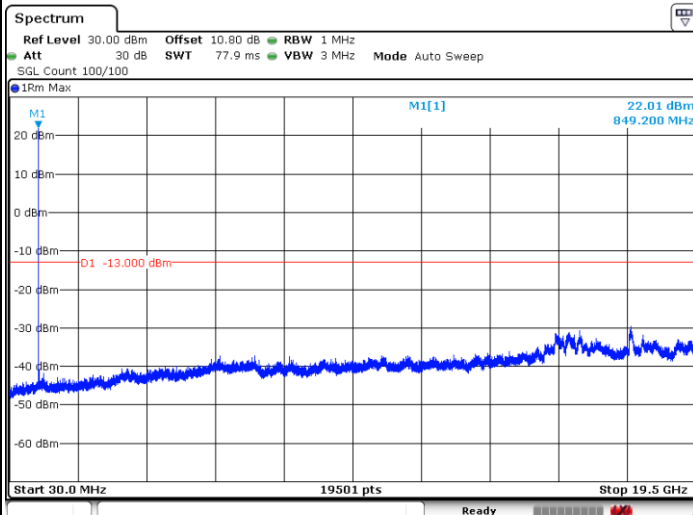
**Conducted Spurious Emission****LTE Band 5 / 3.75kHz****Lowest Channel / BPSK****Lowest Channel / QPSK****Middle Channel / BPSK****Middle Channel / QPSK**



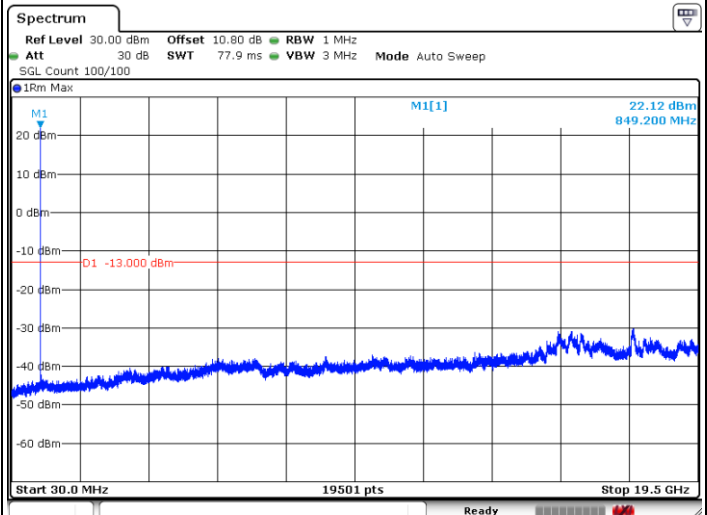
LTE Band 5 / 3.75kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 23.JUL.2020 09:51:25

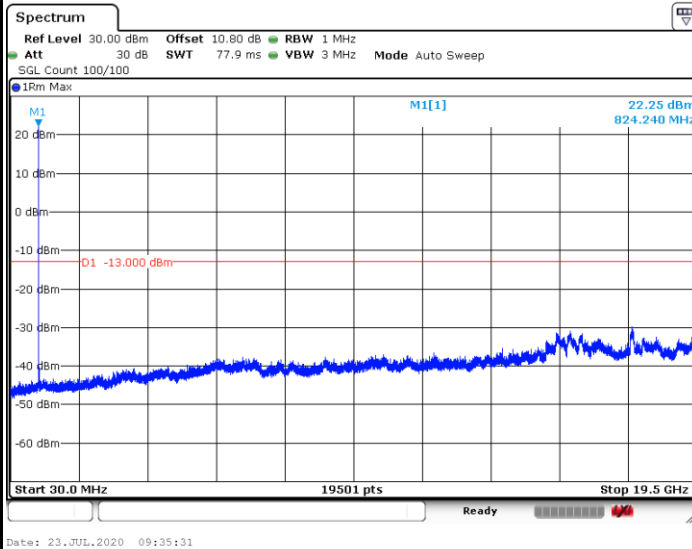


Date: 23.JUL.2020 09:50:35

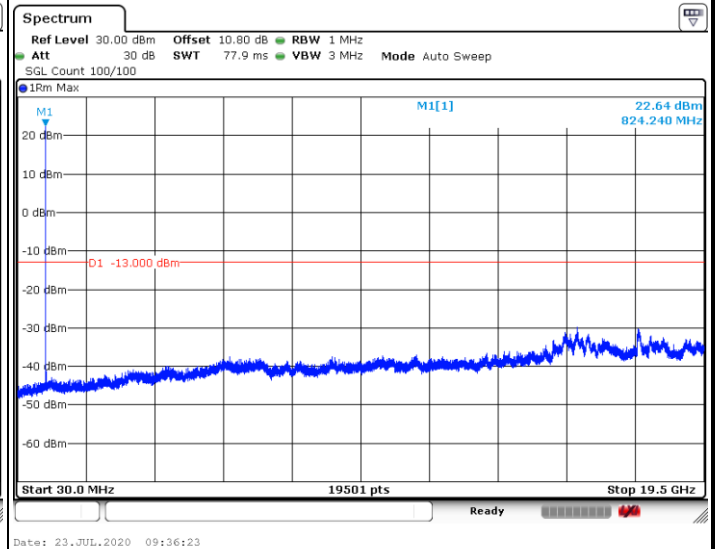


LTE Band 5 / 15kHz

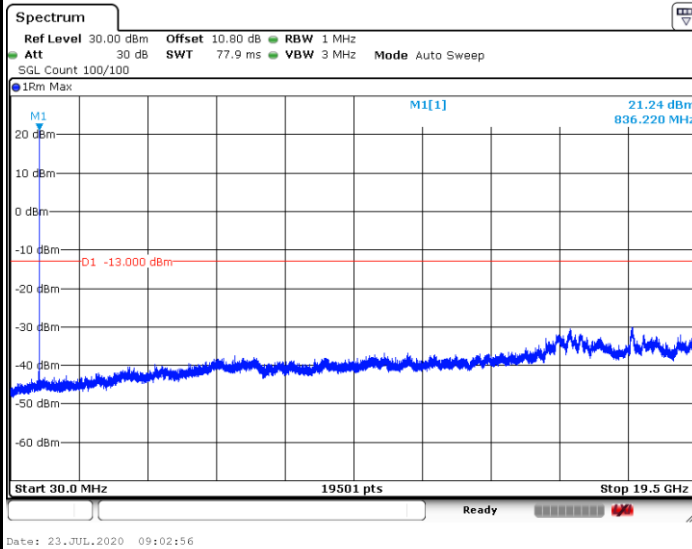
Lowest Channel / BPSK



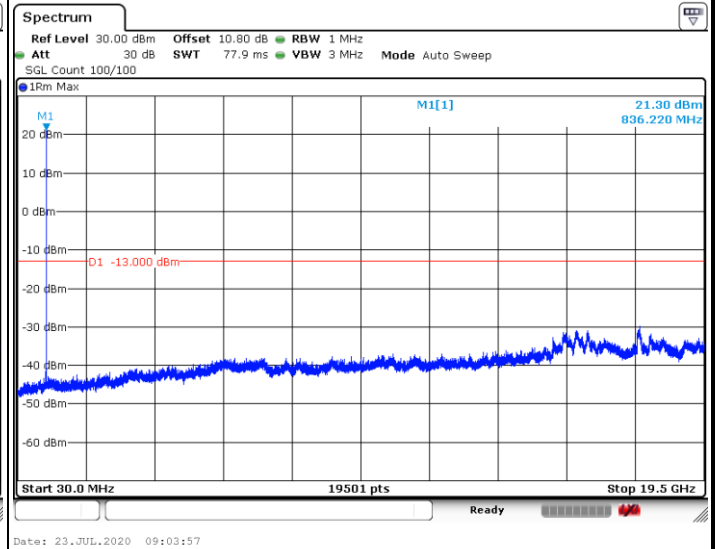
Lowest Channel / QPSK



Middle Channel / BPSK



Middle Channel / QPSK

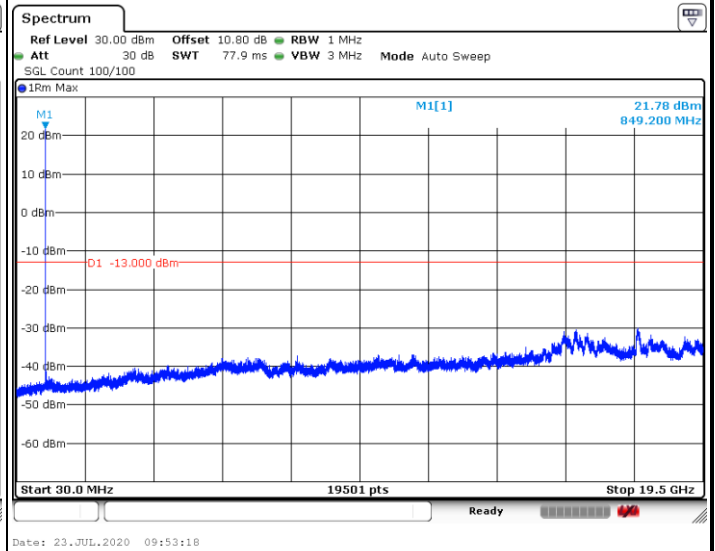
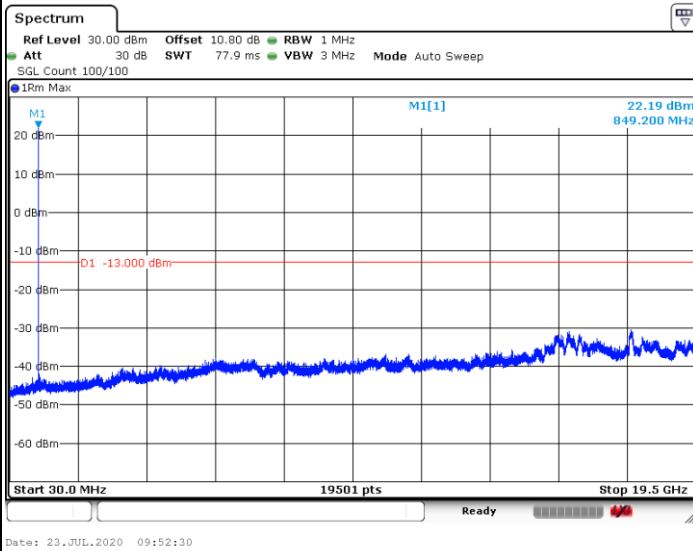




LTE Band 5 / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 5 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0091	PASS
40	Normal Voltage	0.0085	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0151	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0158	

Note:

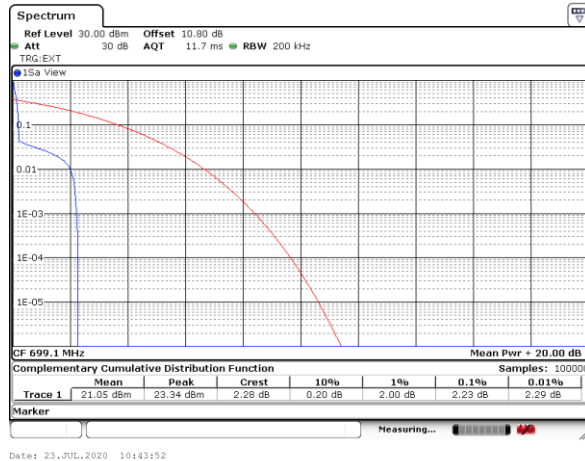
1. Normal Voltage =3.6 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =3.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



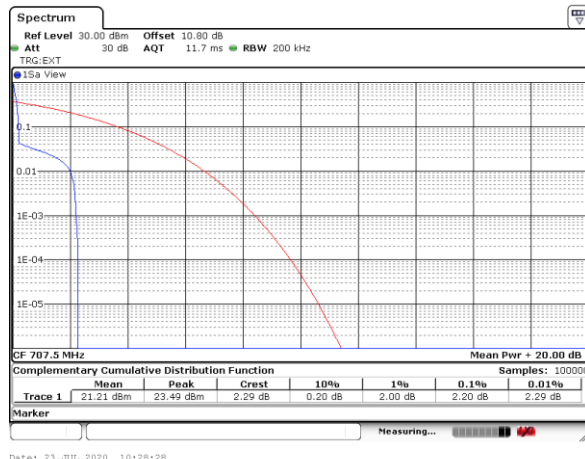
LTE Band 12

Peak-to-Average Ratio

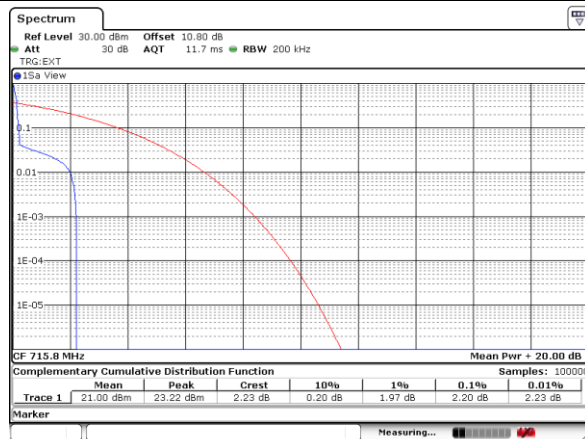
Mode	LTE Band 12 / 15kHz			
Mod.	BPSK	QPSK		Limit: 13dB
T Size	1T	1T	Full T	Result
Lowest CH	2.23	1.77	3.97	PASS
Middle CH	2.20	1.74	3.97	
Highest CH	2.20	1.77	4.00	

LTE Band 12 / 15kHz / BPSK
Lowest Channel / 1T


Date: 23.JUL.2020 10:43:52

Middle Channel/ 1T


Date: 23.JUL.2020 10:28:28

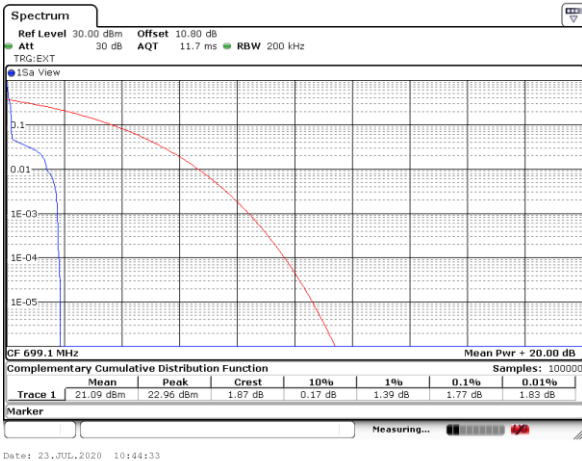
Highest Channel/ 1T


Date: 30.JUL.2020 14:05:31

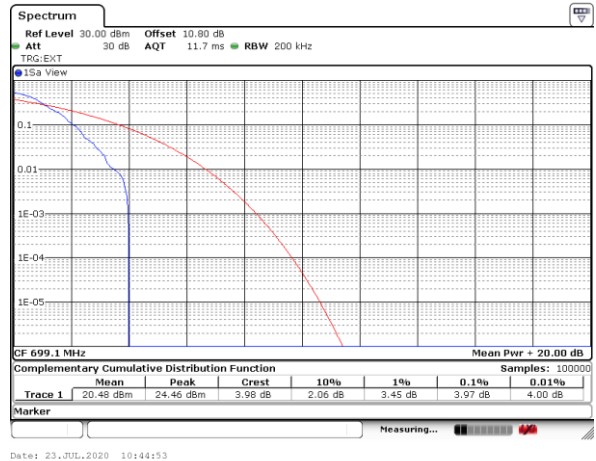


LTE Band 12 / 15kHz / QPSK

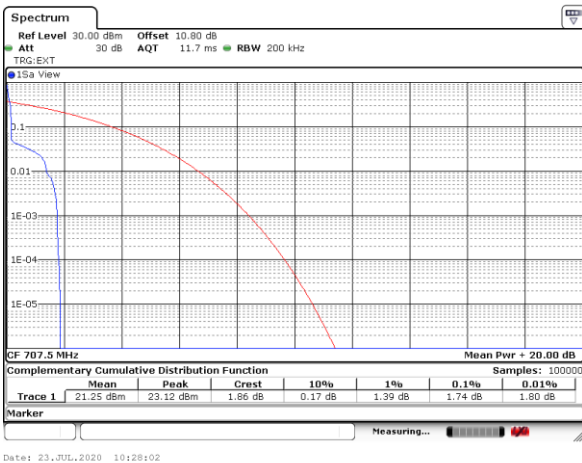
Lowest Channel / 1T



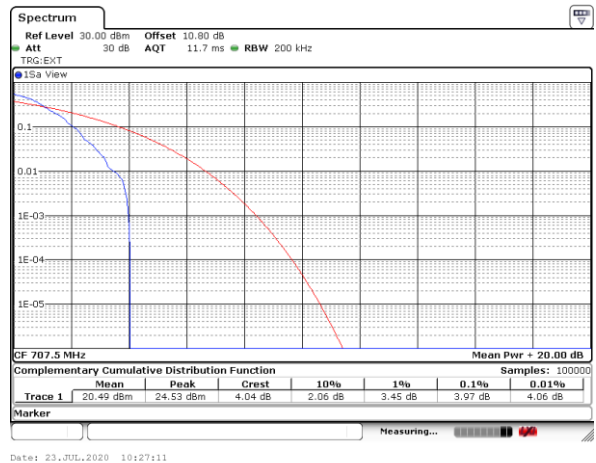
Lowest Channel / Full T



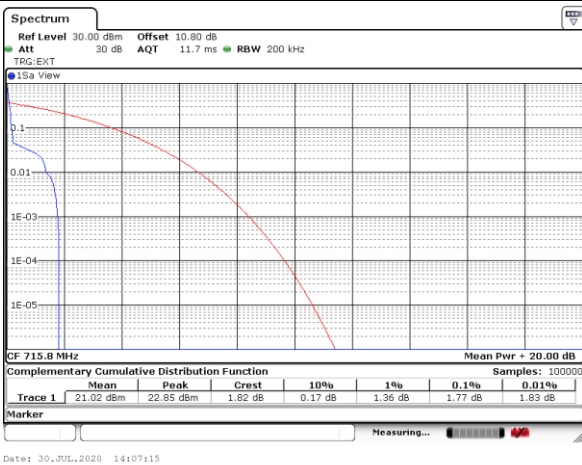
Middle Channel/ 1T



Middle Channel / Full T



Highest Channel/ 1T



Highest Channel / Full T



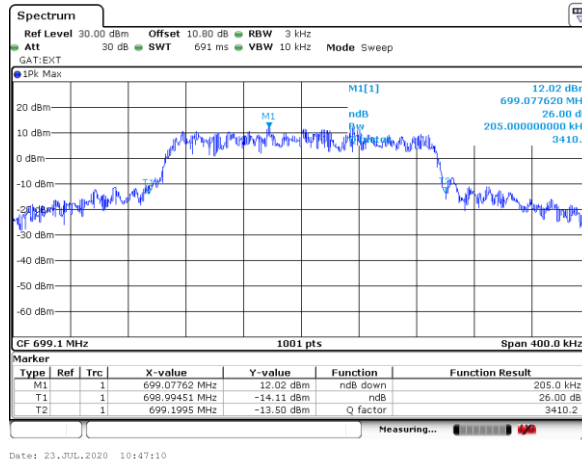
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	205.00
Middle CH	205.00
Highest CH	205.00

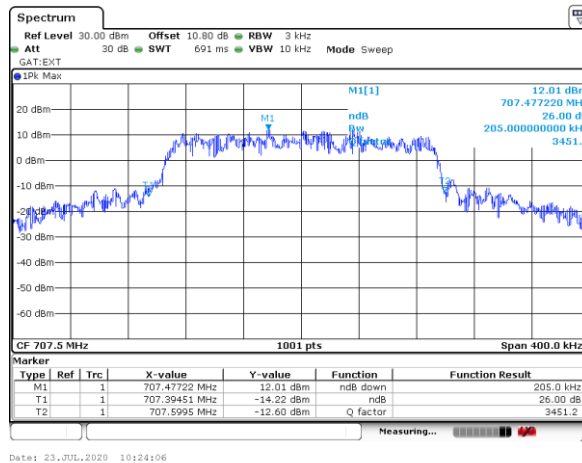


LTE Band 12

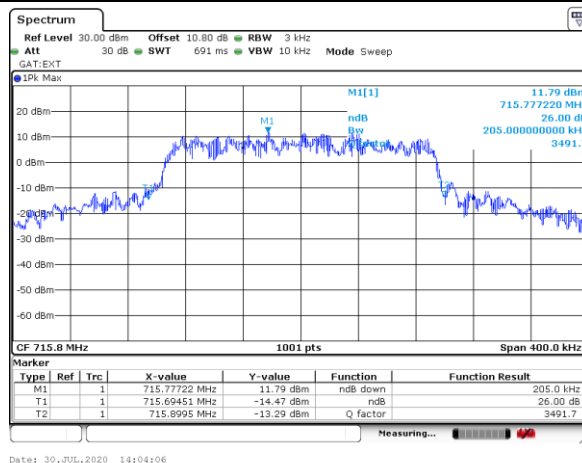
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK



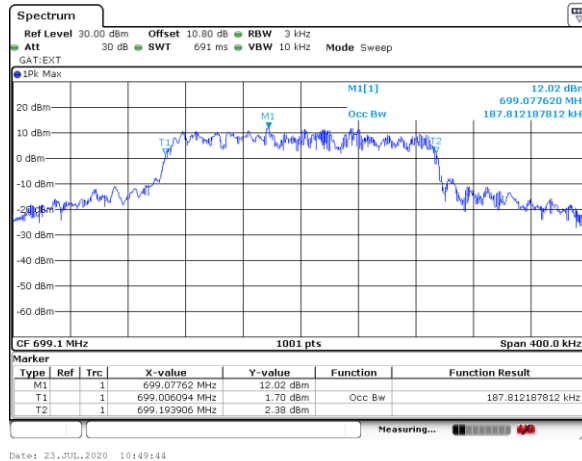
**Occupied Bandwidth**

Mode	LTE Band 12 : OB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	187.81
Middle CH	186.61
Highest CH	187.41

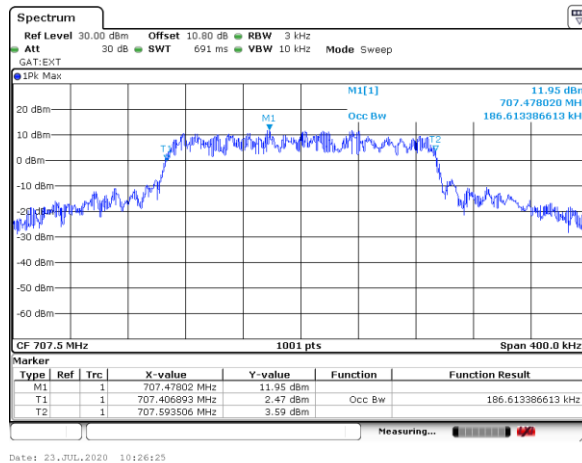


LTE Band 12

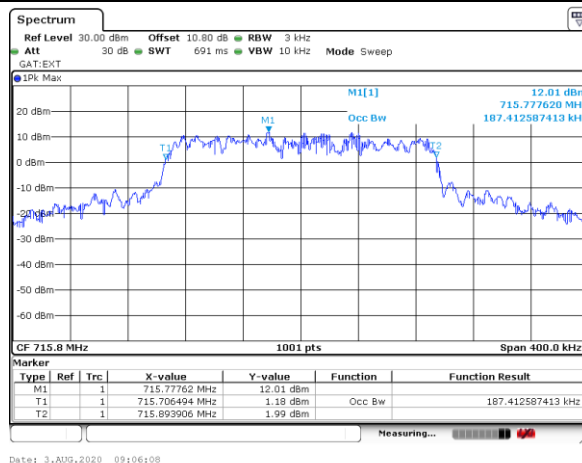
Lowest Channel / 15kHz / QPSK

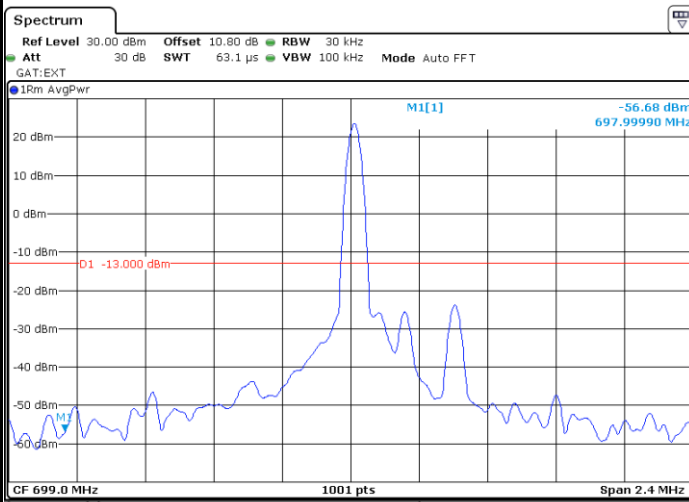
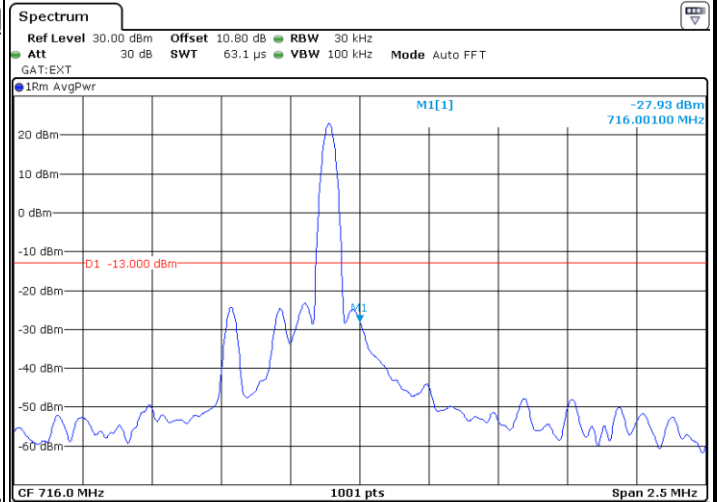
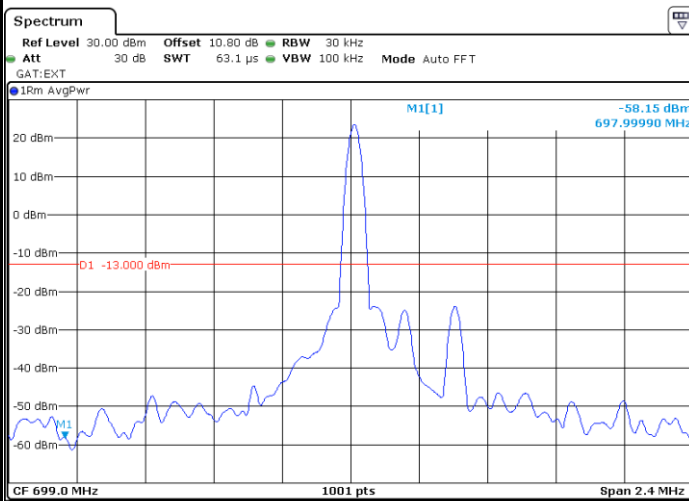
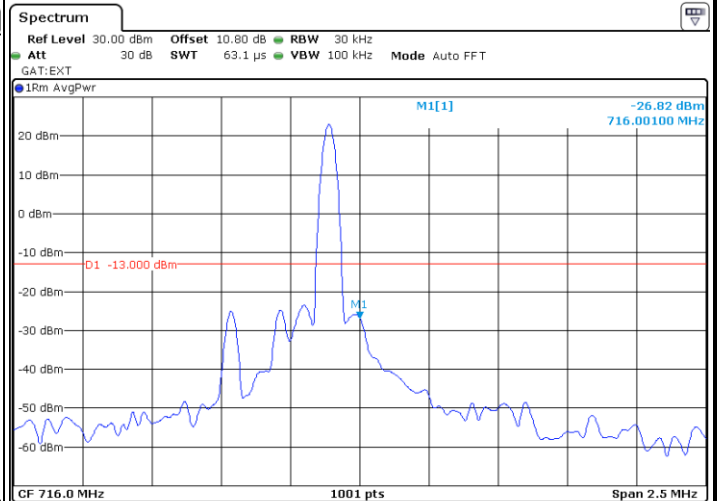


Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK

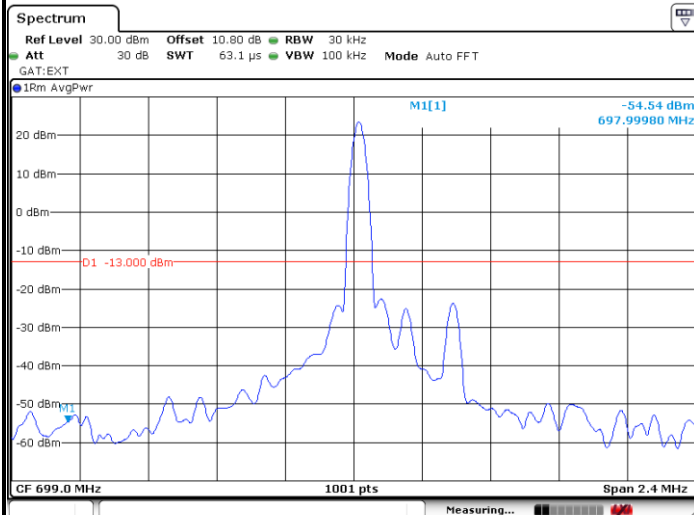


**Conducted Band Edge****LTE Band 12 / 3.75kHz / BPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T****LTE Band 12 / 3.75kHz / QPSK****Lowest Band Edge / 1 T****Highest Band Edge / 1 T**



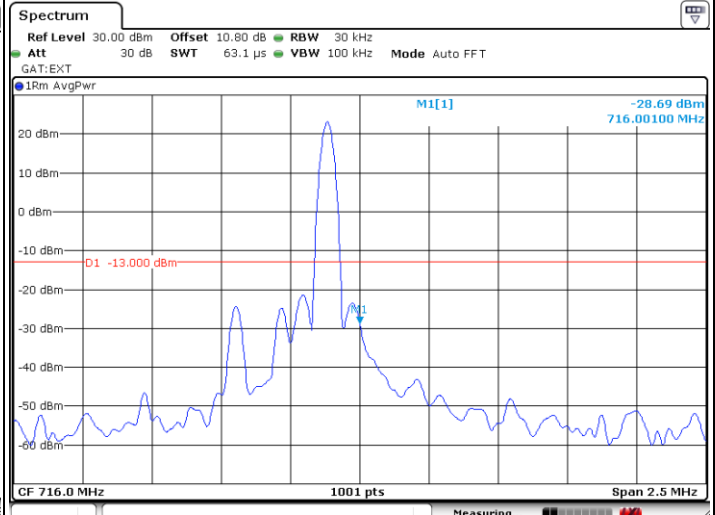
LTE Band 2 / 15kHz / BPSK

Lowest Band Edge / 1 T



Date: 24.JUL.2020 13:40:32

Highest Band Edge / 1 T

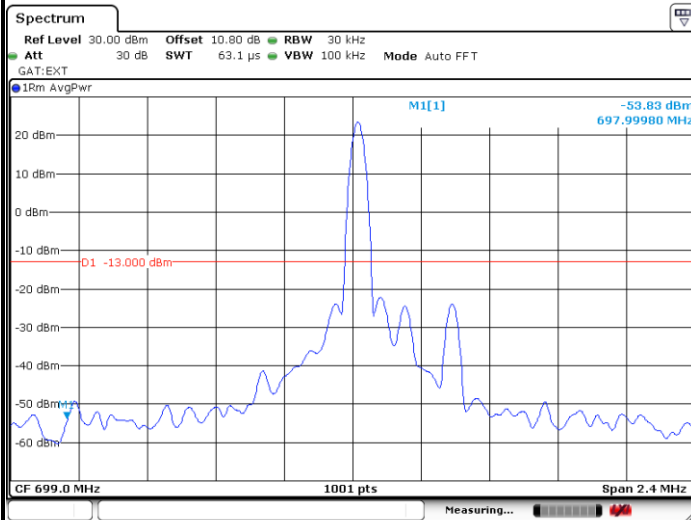


Date: 30.JUL.2020 13:54:35

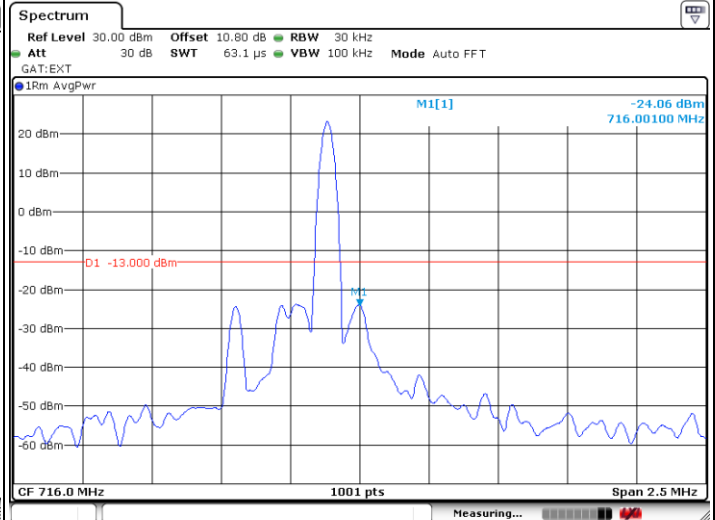


LTE Band 2 / 15kHz / QPSK

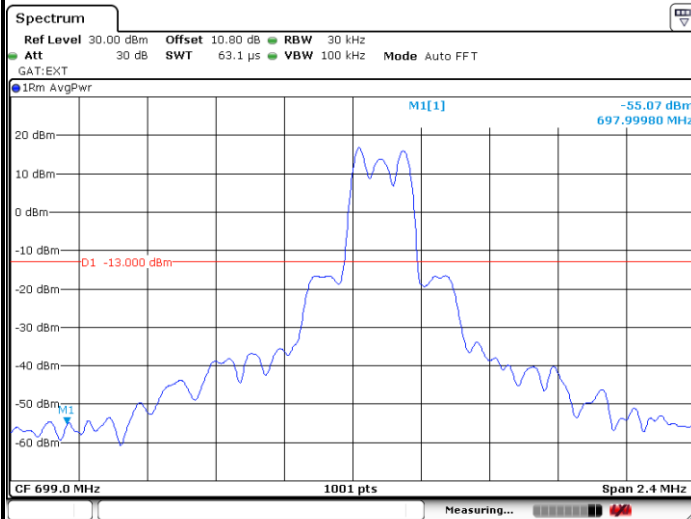
Lowest Band Edge / 1 T



Highest Band Edge / 1 T



Lowest Band Edge / Full T



Highest Band Edge / Full T

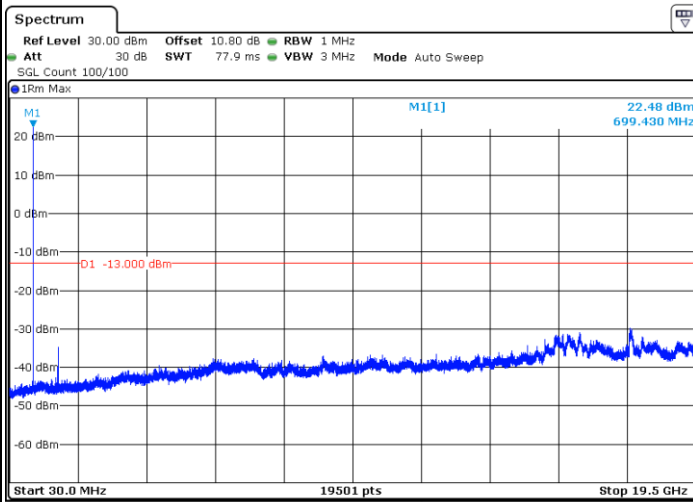




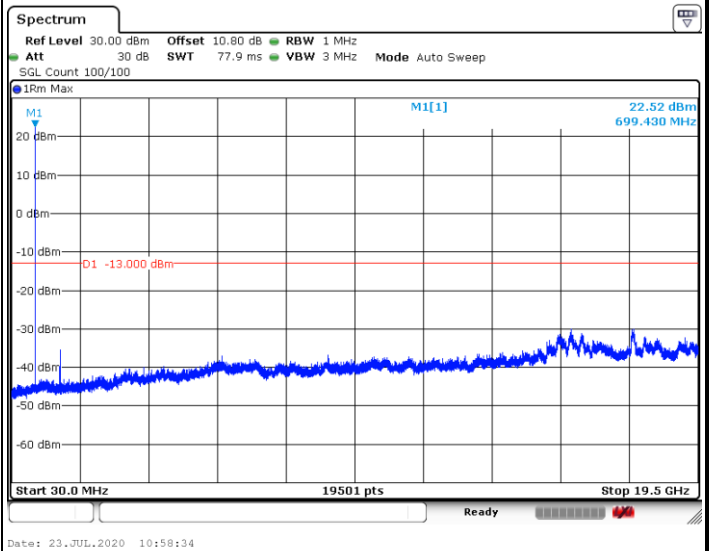
Conducted Spurious Emission

LTE Band 12 / 3.75kHz

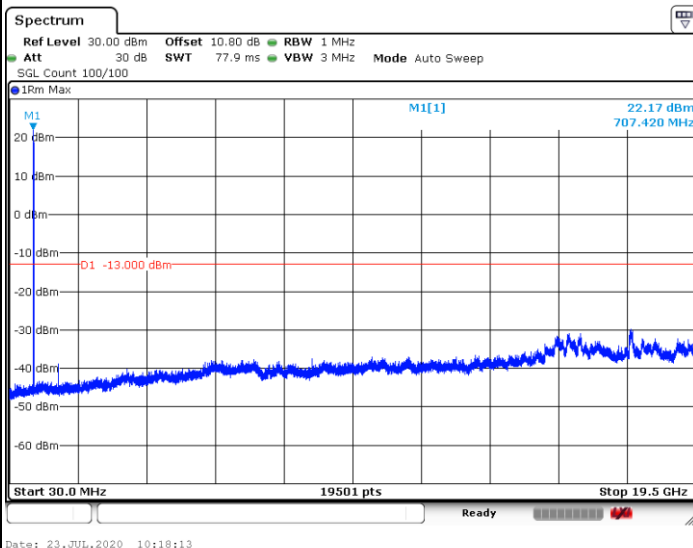
Lowest Channel / BPSK



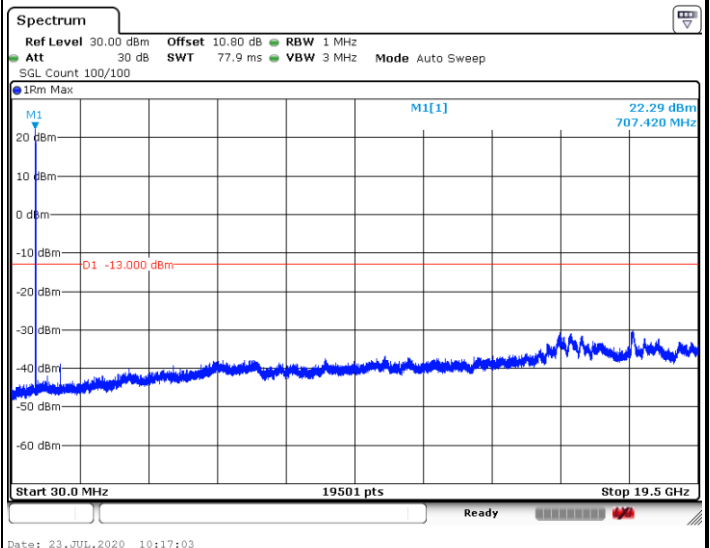
Lowest Channel / QPSK



Middle Channel / BPSK



Middle Channel / QPSK

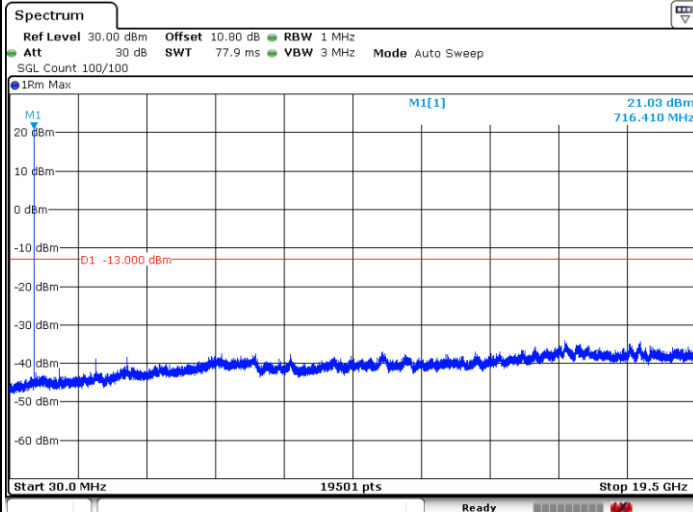




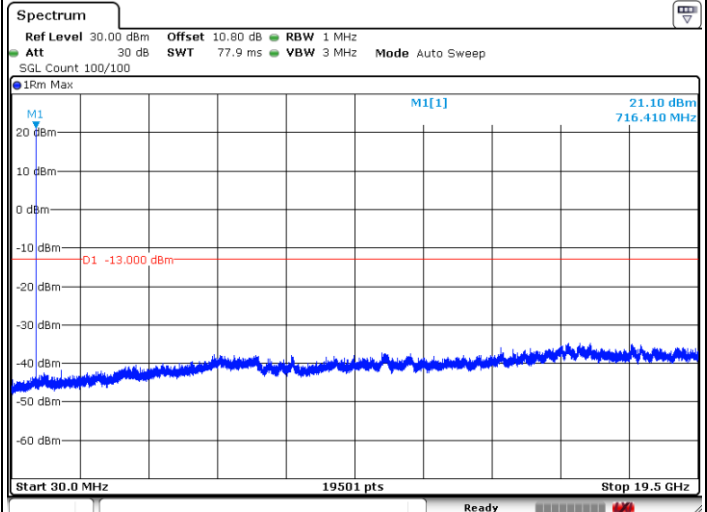
LTE Band 12 / 3.75kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 30.JUL.2020 14:12:26

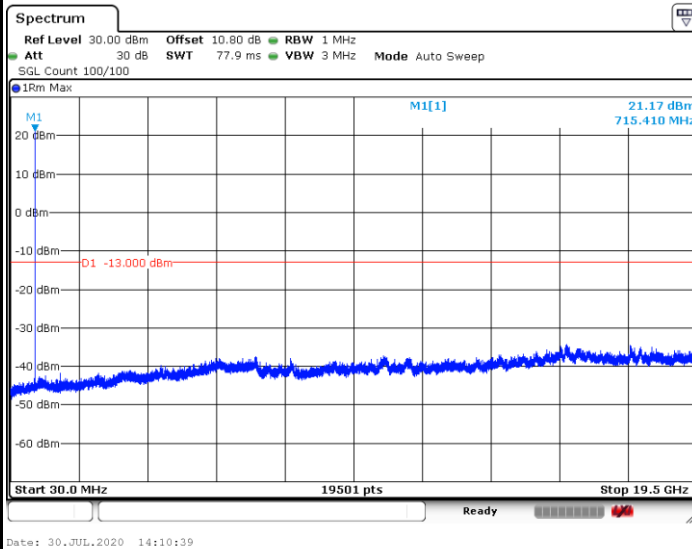


Date: 30.JUL.2020 14:15:16

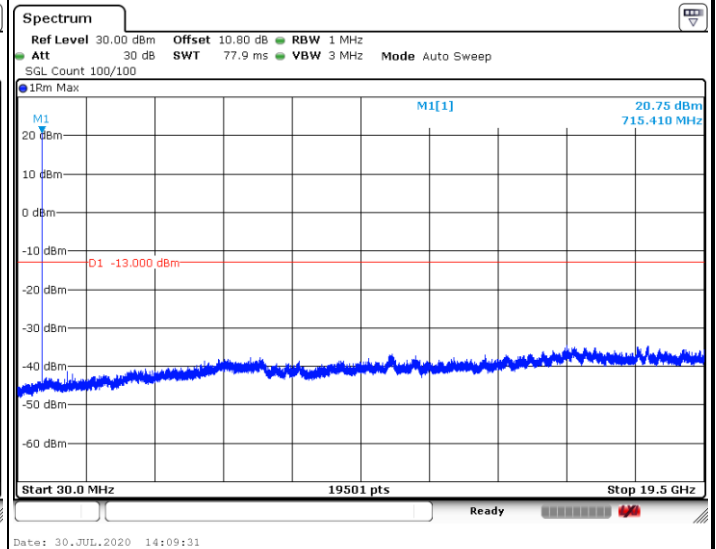


LTE Band 12 / 15kHz

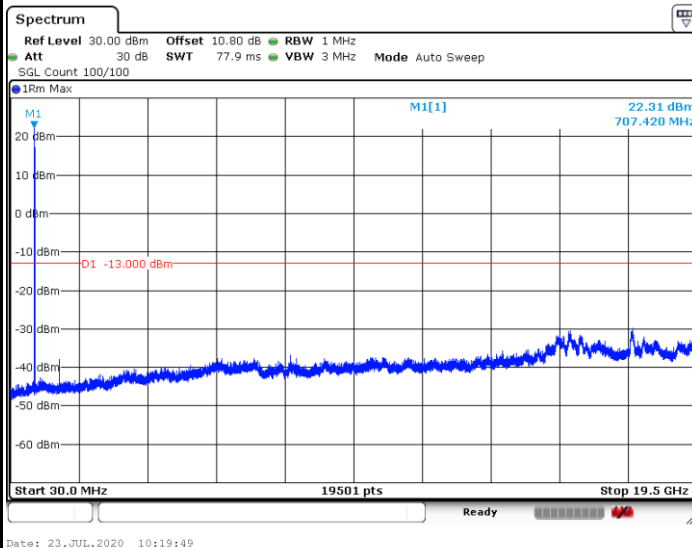
Lowest Channel / BPSK



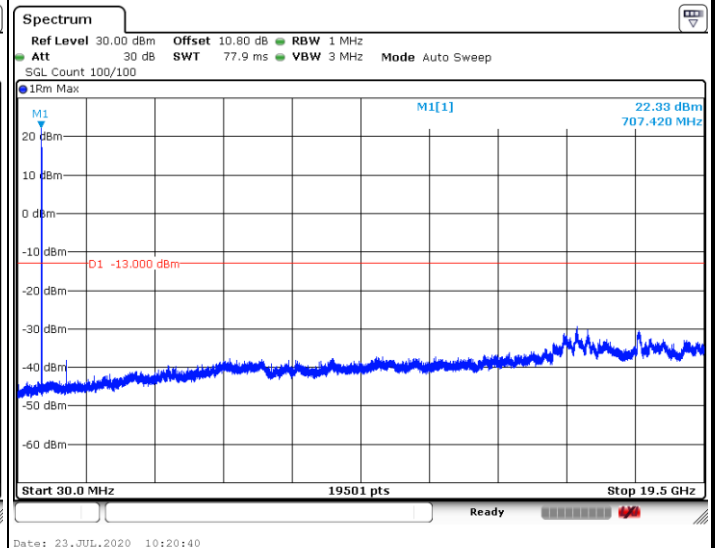
Lowest Channel / QPSK



Middle Channel / BPSK



Middle Channel / QPSK

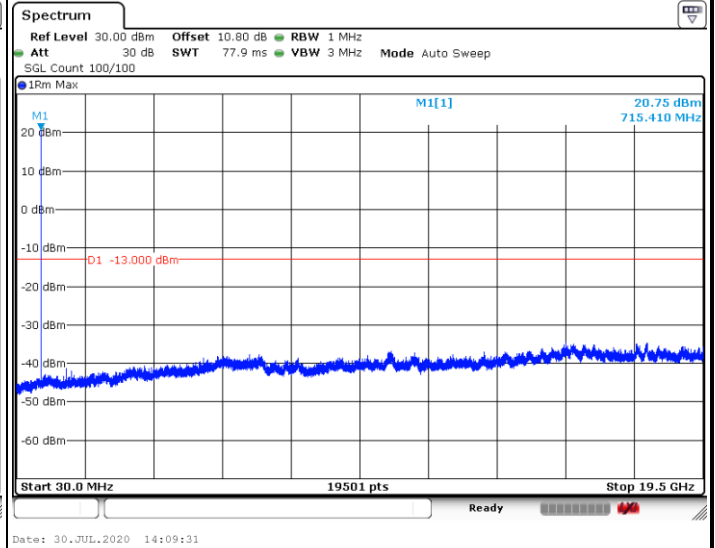
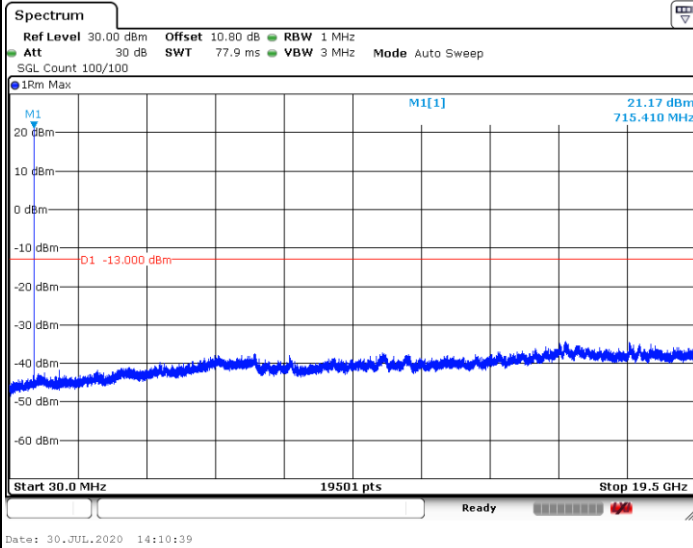




LTE Band 12 / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 12 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0095	PASS
40	Normal Voltage	0.0139	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0100	
-10	Normal Voltage	0.0151	
-20	Normal Voltage	0.0147	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

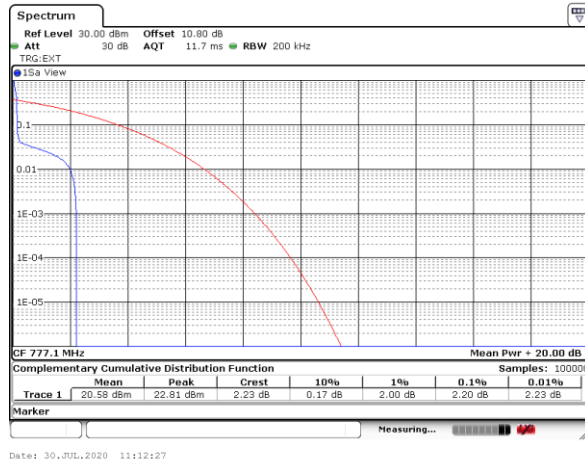
1. Normal Voltage =3.6 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =3.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



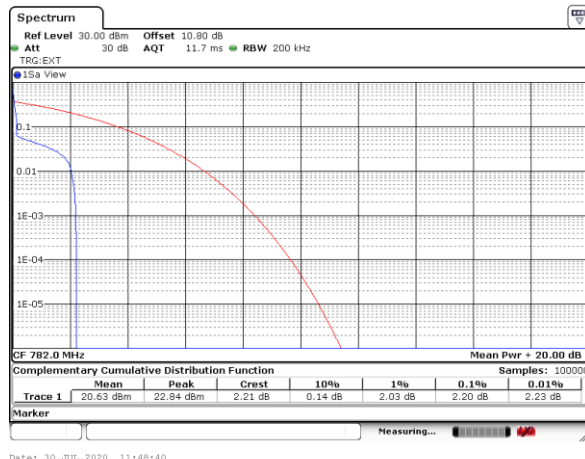
LTE Band 13

Peak-to-Average Ratio

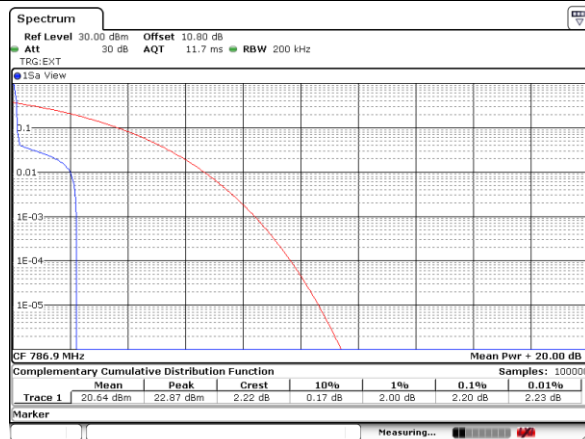
Mode	LTE Band 13 / 15kHz			
Mod.	BPSK	QPSK		Limit: 13dB
T Size	1T	1T	Full T	Result
Lowest CH	2.20	1.77	4.06	PASS
Middle CH	2.20	1.74	4.09	
Highest CH	2.20	1.77	4.09	

LTE Band 13 / 15kHz / BPSK
Lowest Channel / 1T


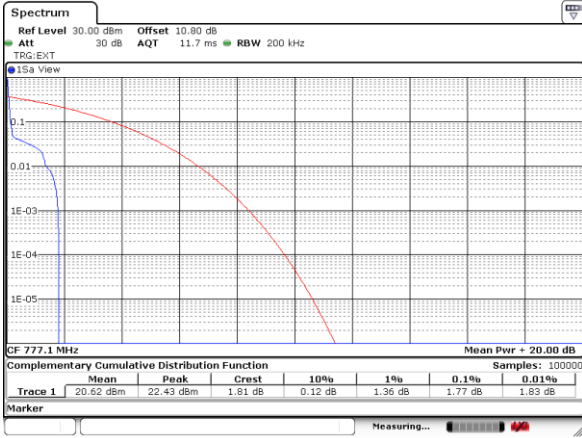
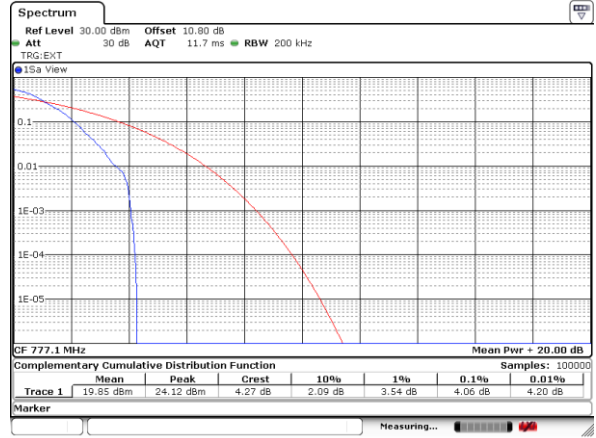
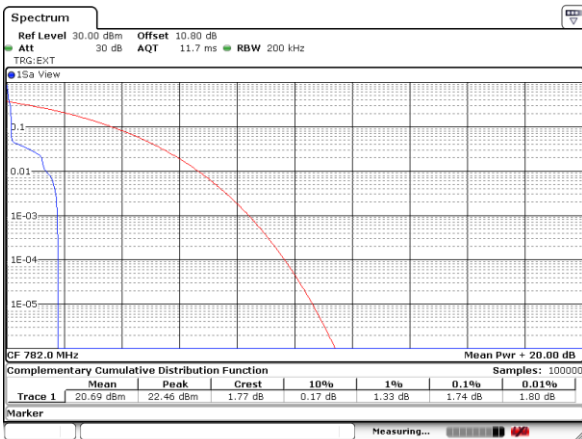
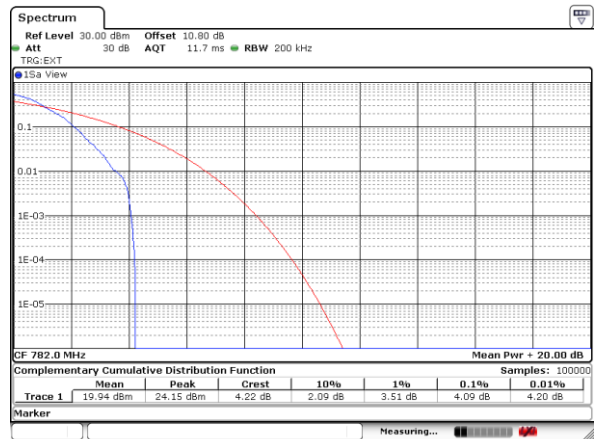
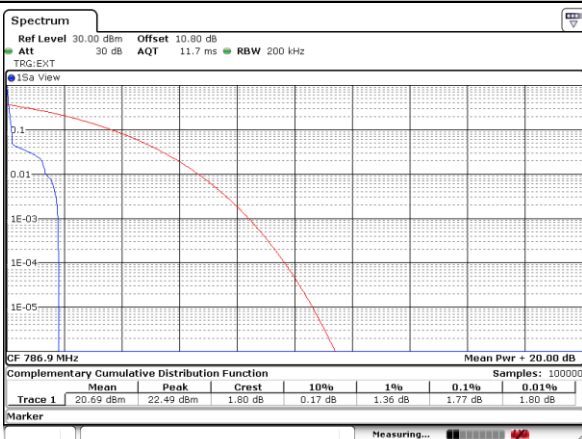
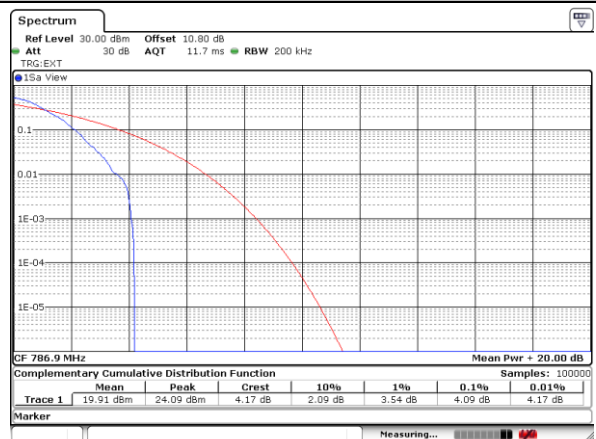
Date: 30.JUL.2020 11:12:27

Middle Channel/ 1T


Date: 30.JUL.2020 11:48:40

Highest Channel/ 1T


Date: 30.JUL.2020 11:47:01

LTE Band 13 / 10MHz / QPSK
Lowest Channel / 1T

Lowest Channel / Full T

Middle Channel/ 1T

Middle Channel / Full T

Highest Channel/ 1T

Highest Channel / Full T


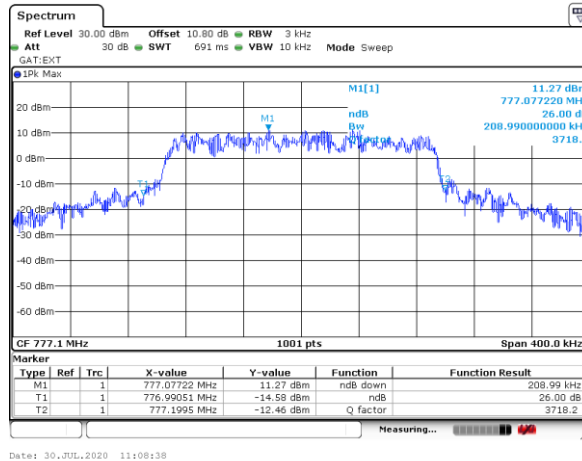
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	208.99
Middle CH	218.58
Highest CH	206.59

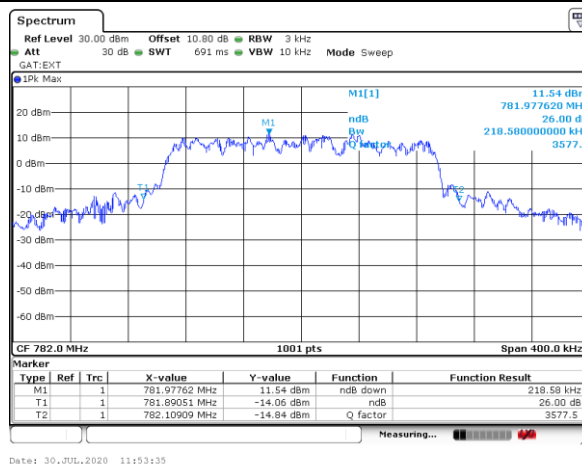


LTE Band 13

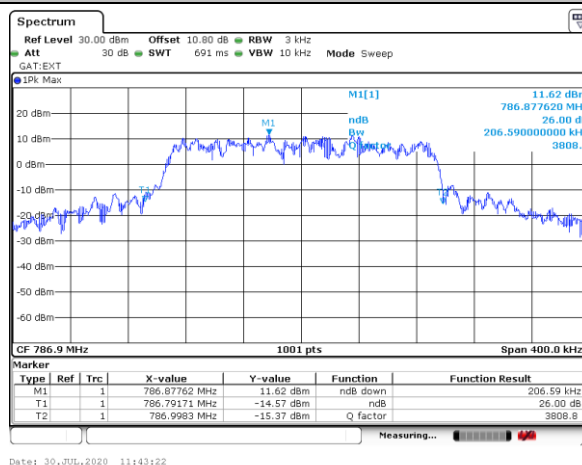
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK





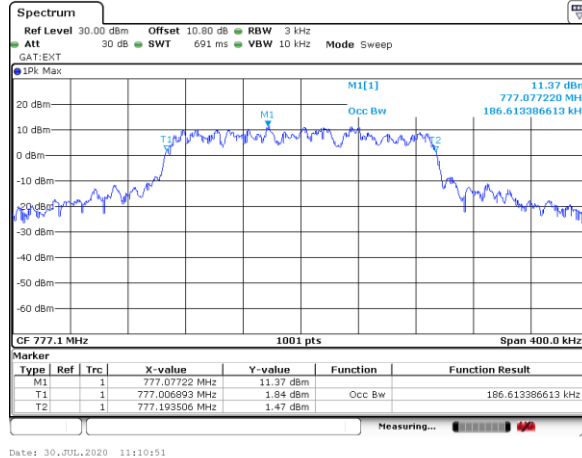
Occupied Bandwidth

Mode	LTE Band 13 : OB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	186.61
Middle CH	187.01
Highest CH	187.01

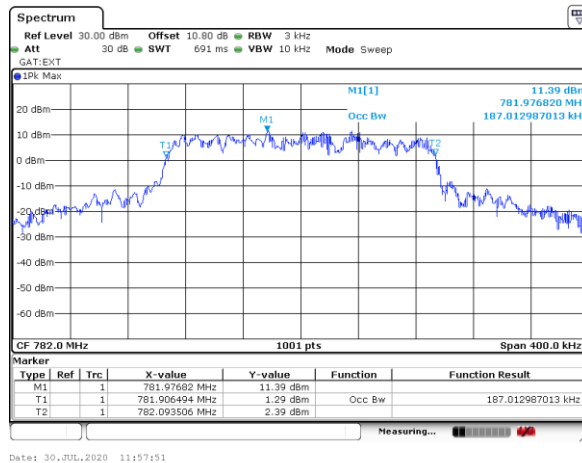


LTE Band 13

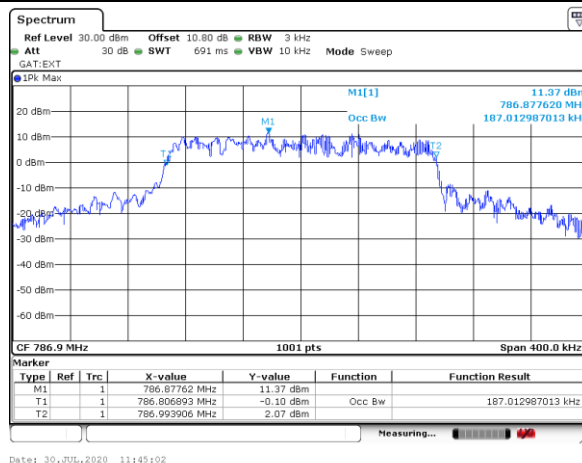
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK

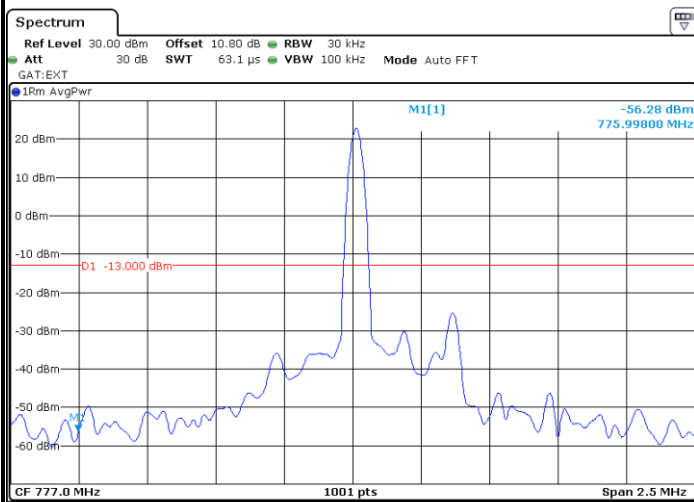




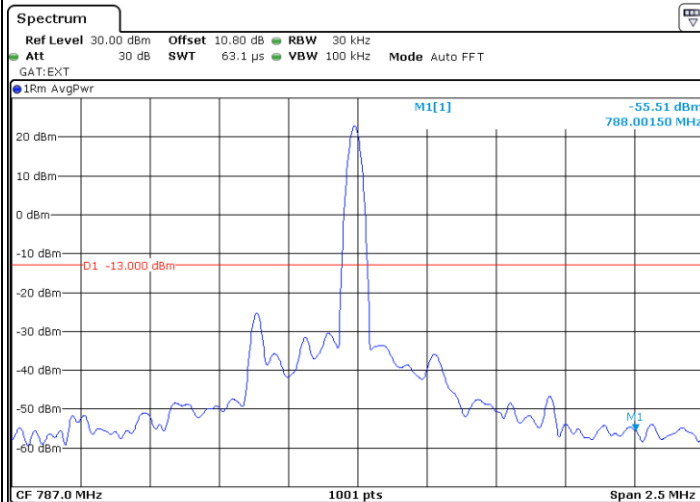
Conducted Band Edge

LTE Band 13 / 3.75kHz / BPSK

Lowest Band Edge / 1 T

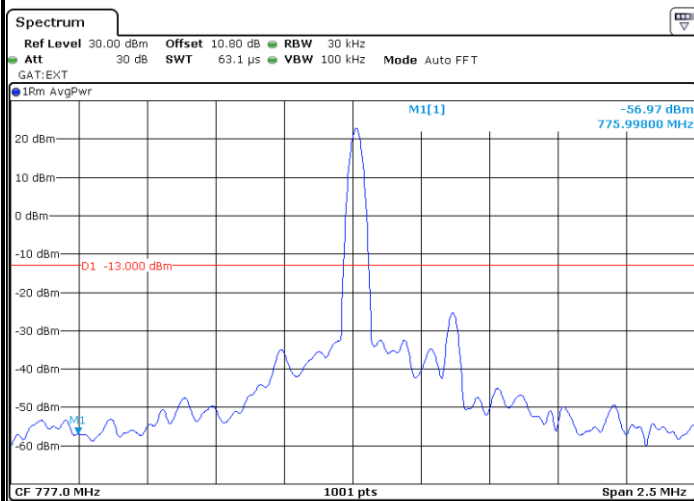


Highest Band Edge / 1 T

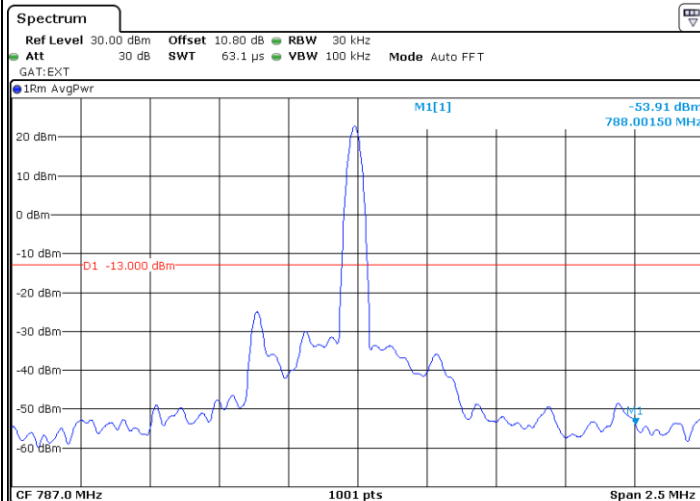


LTE Band 13 / 3.75kHz / QPSK

Lowest Band Edge / 1 T



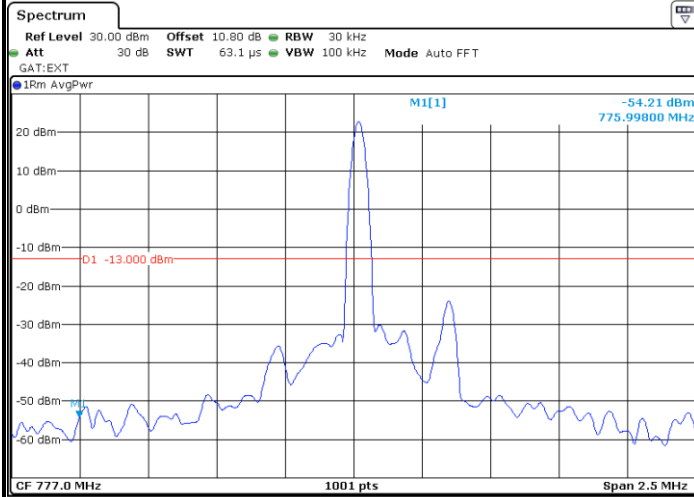
Highest Band Edge / 1 T





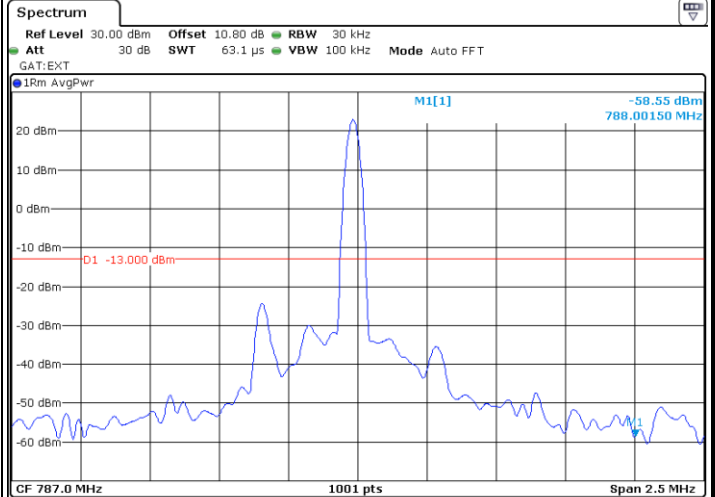
LTE Band 13 / 15kHz / BPSK

Lowest Band Edge / 1 T



Date: 30.JUL.2020 11:06:03

Highest Band Edge / 1 T



Date: 30.JUL.2020 11:23:17

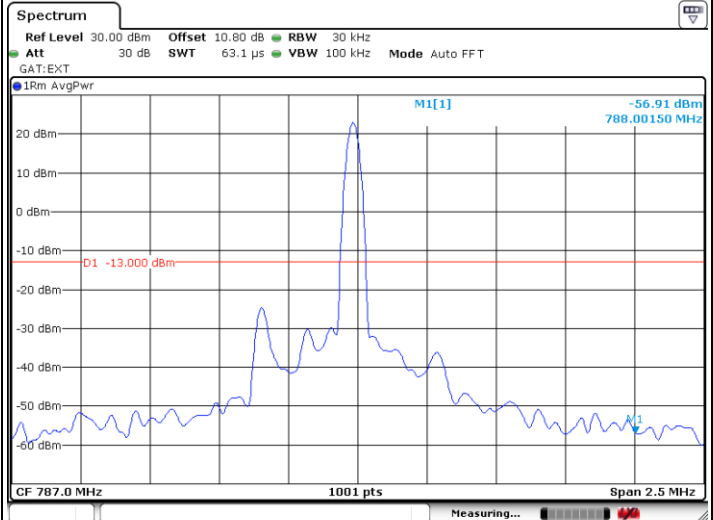


LTE Band 13 / 15kHz / QPSK

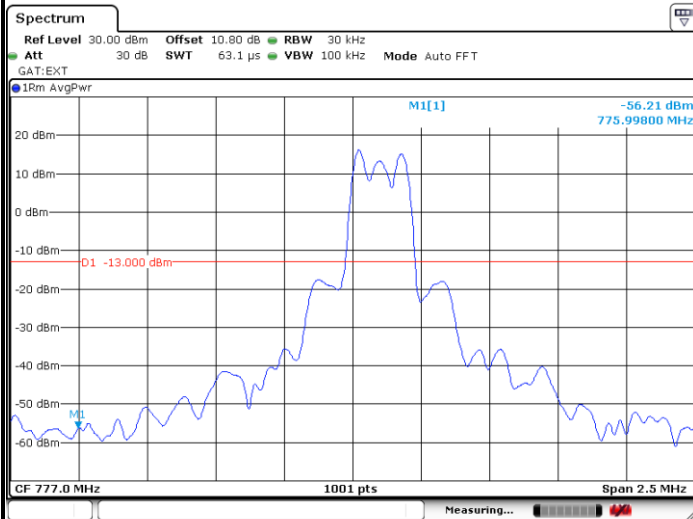
Lowest Band Edge / 1 T



Highest Band Edge / 1 T



Lowest Band Edge / Full T



Highest Band Edge / Full T

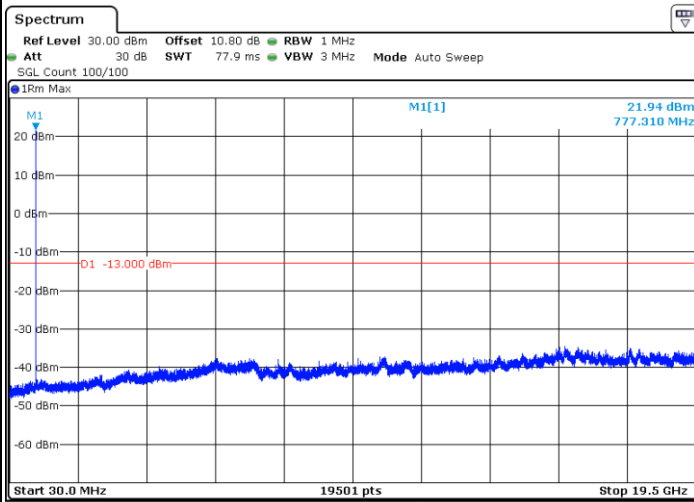




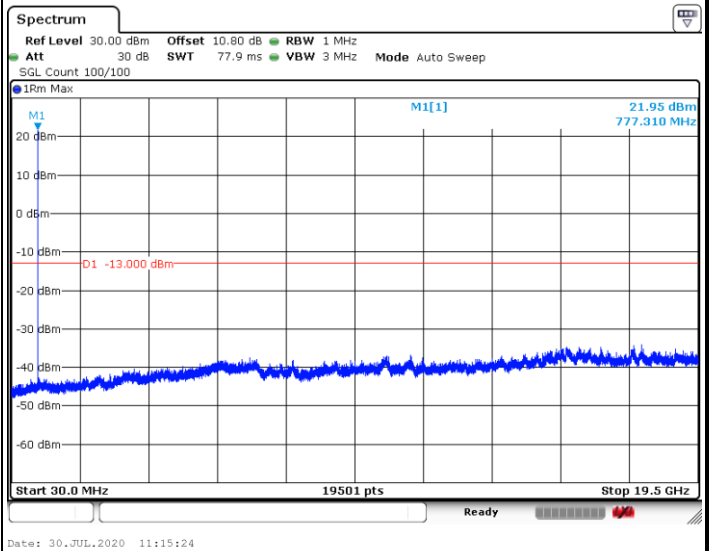
Conducted Spurious Emission

LTE Band 13 / 3.75kHz

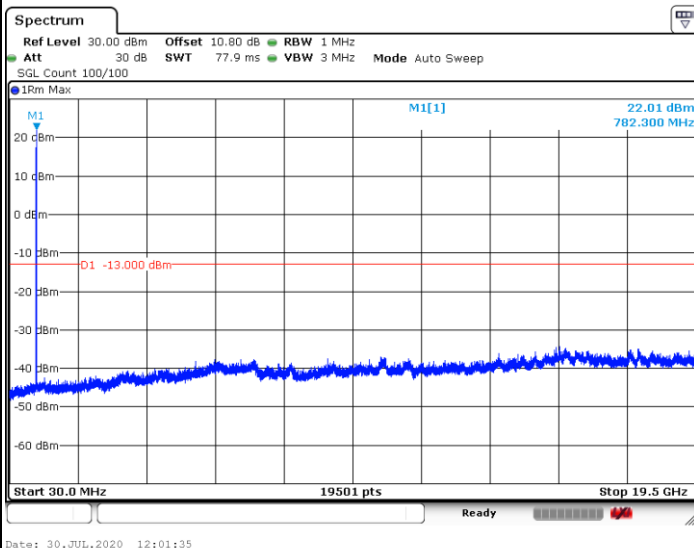
Lowest Channel / BPSK



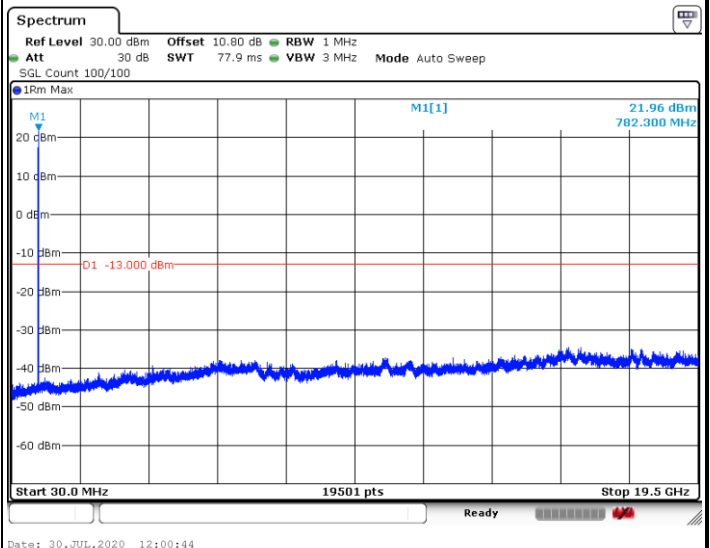
Lowest Channel / QPSK



Middle Channel / BPSK



Middle Channel / QPSK

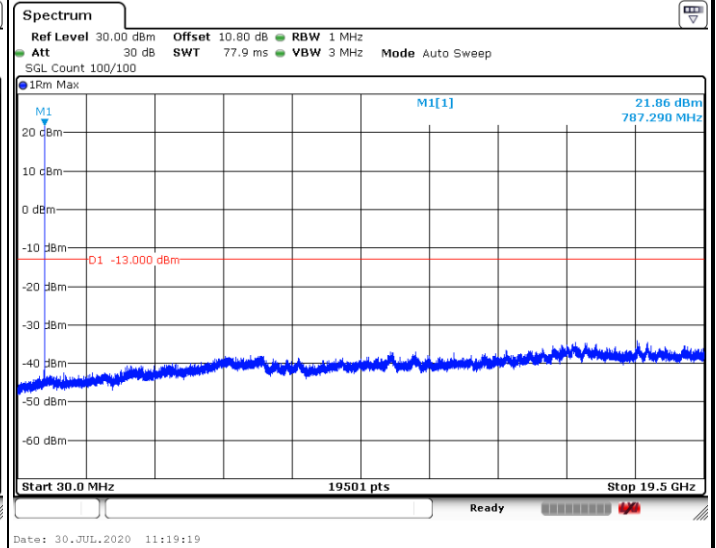
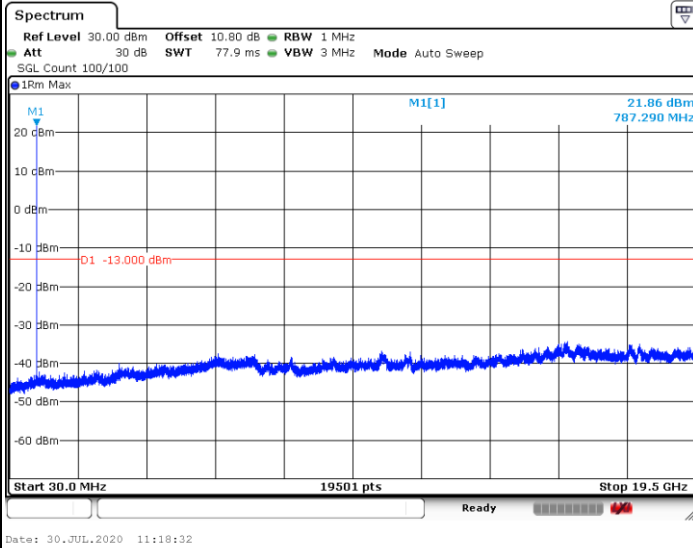




LTE Band 13 / 3.75kHz

Highest Channel / BPSK

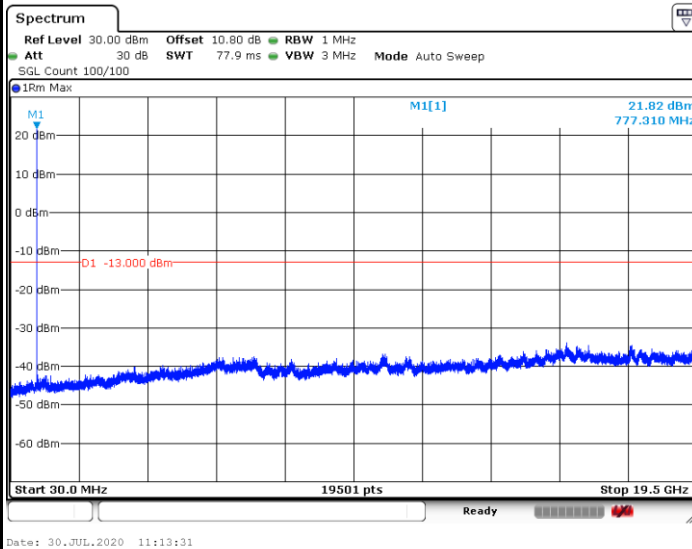
Highest Channel / QPSK



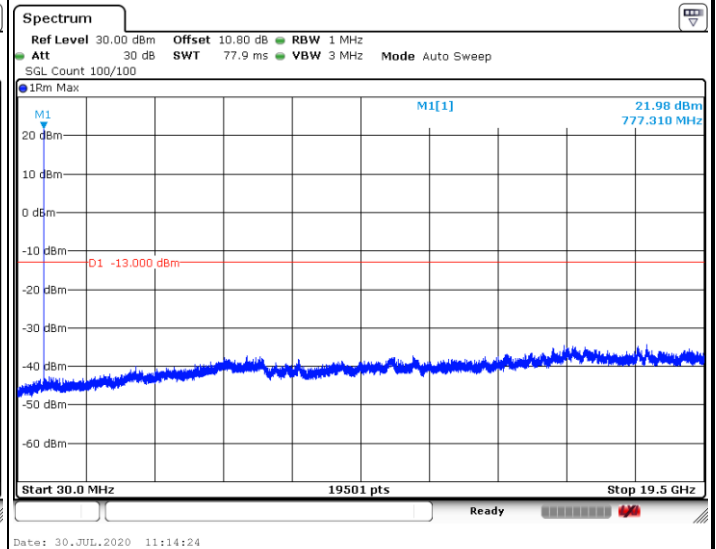


LTE Band 13 / 15kHz

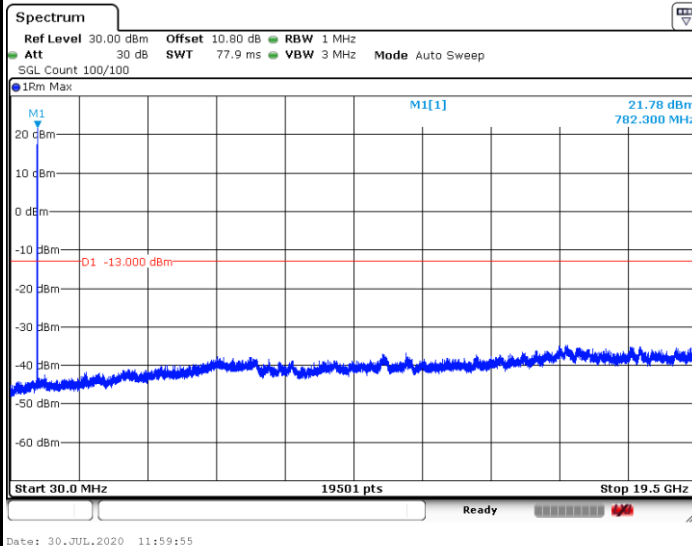
Lowest Channel / BPSK



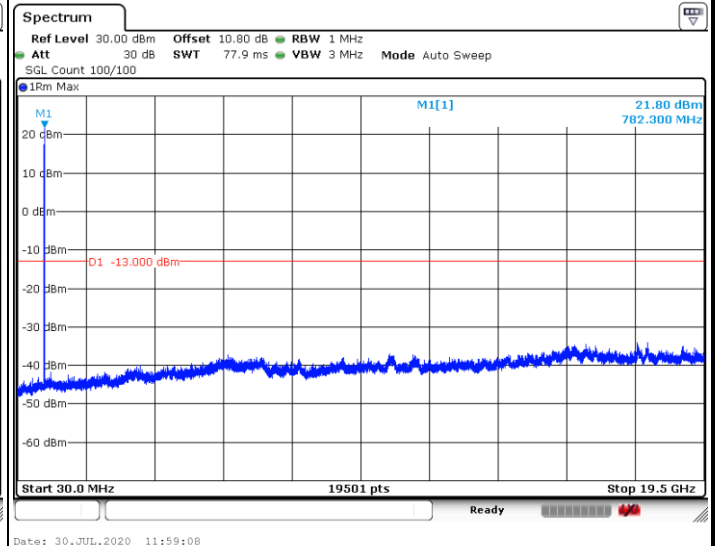
Lowest Channel / QPSK



Middle Channel / BPSK



Middle Channel / QPSK

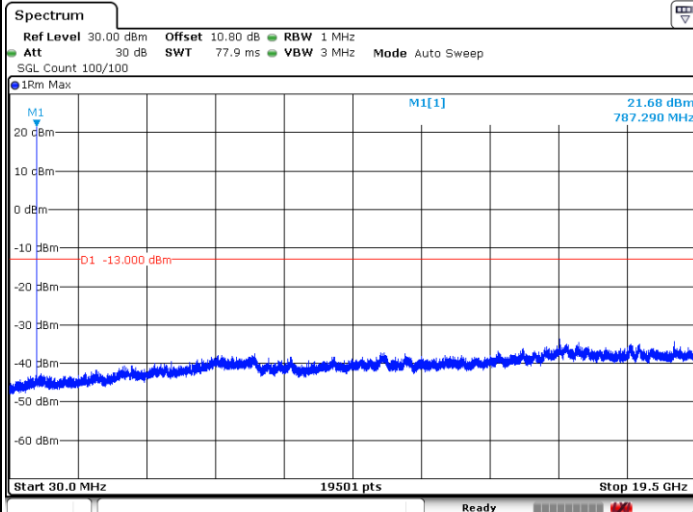




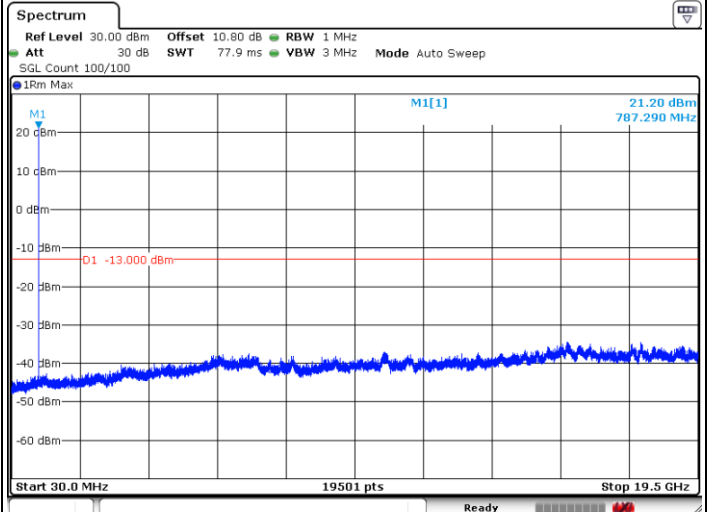
LTE Band 13 / 15kHz

Highest Channel / BPSK

Highest Channel / QPSK



Date: 30.JUL.2020 11:21:26



Date: 30.JUL.2020 11:20:23

Frequency Stability

Test Conditions		LTE Band 13 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15kHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0090	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0132	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0107	
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0118	
20	Maximum Voltage	0.0138	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0124	

Note:

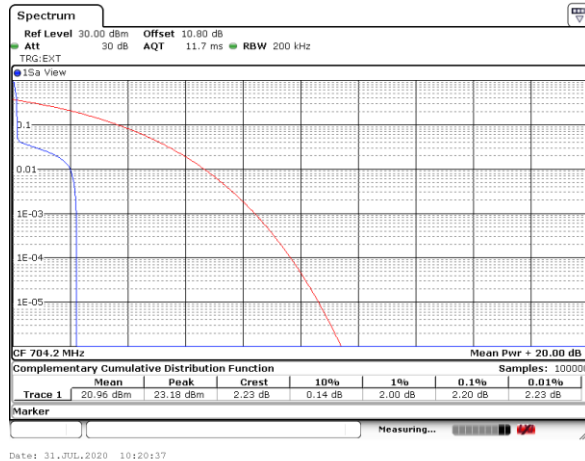
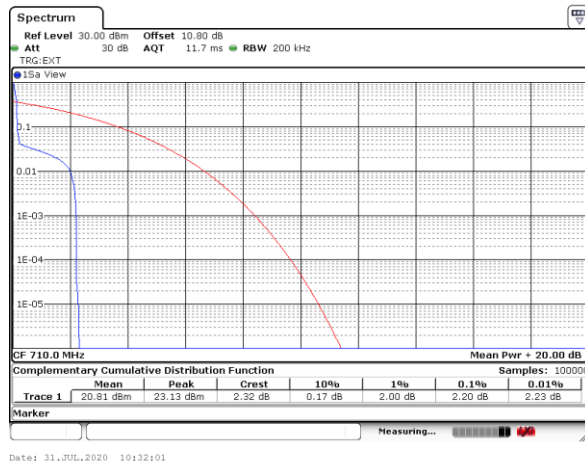
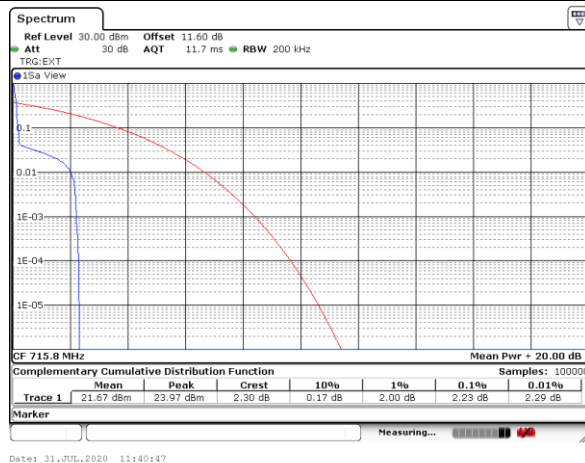
1. Normal Voltage =3.6 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =3.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

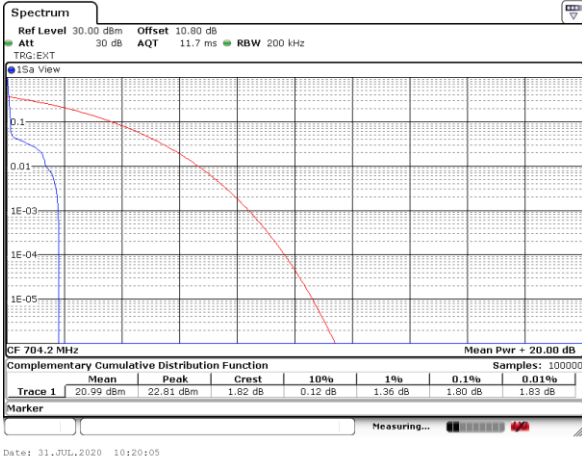
Mode	LTE Band 17 / 15kHz			
Mod.	BPSK	QPSK		Limit: 13dB
T Size	1T	1T	Full T	Result
Lowest CH	2.20	1.80	4.06	PASS
Middle CH	2.20	1.80	4.12	
Highest CH	2.23	1.77	4.06	

LTE Band 17 / 15kHz / BPSK
Lowest Channel / 1T

Middle Channel/ 1T

Highest Channel/ 1T


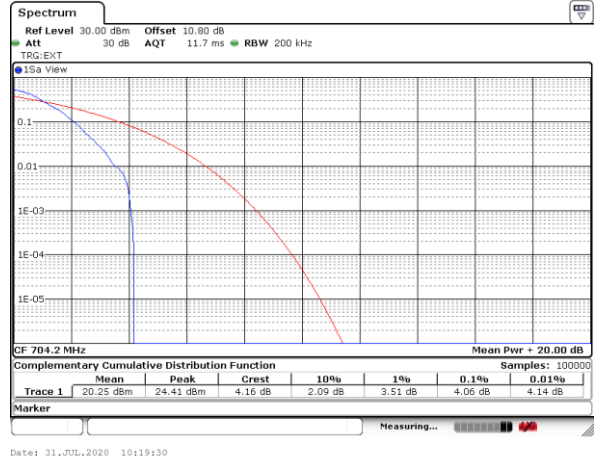


LTE Band 17 / 15kHz / QPSK

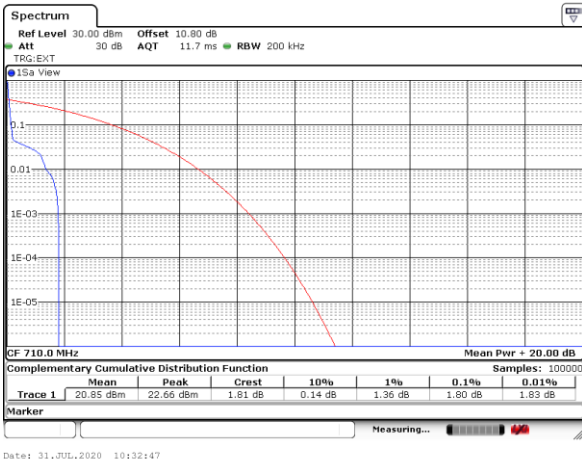
Lowest Channel / 1T



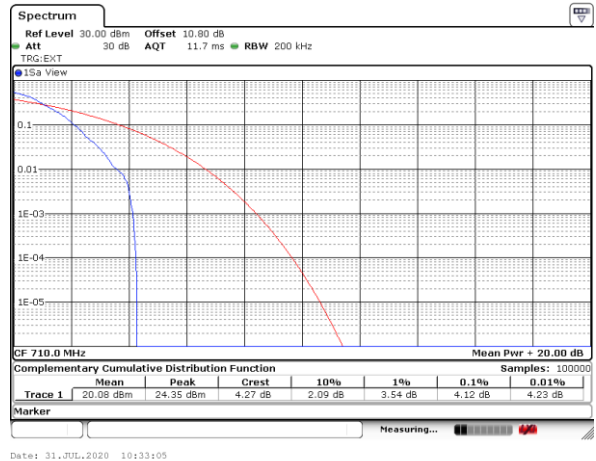
Lowest Channel / Full T



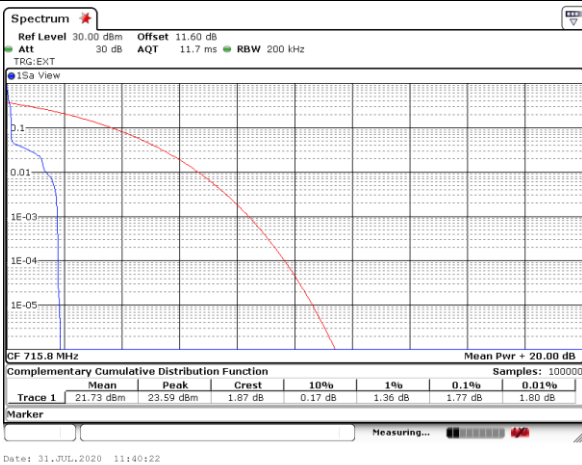
Middle Channel/ 1T



Middle Channel / Full T



Highest Channel/ 1T



Highest Channel / Full T



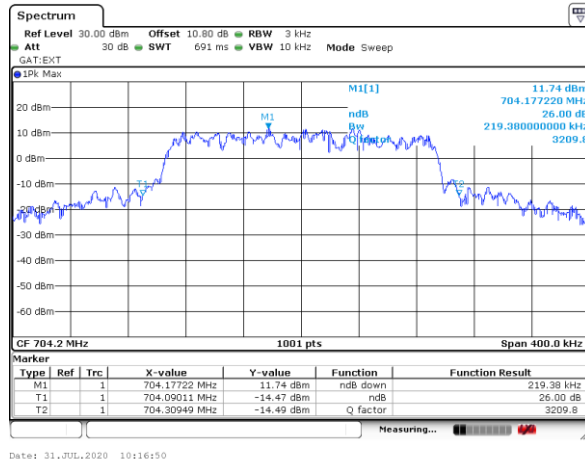
**26dB Bandwidth**

Mode	LTE Band 17 : 26dB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	219.38
Middle CH	206.59
Highest CH	198.20

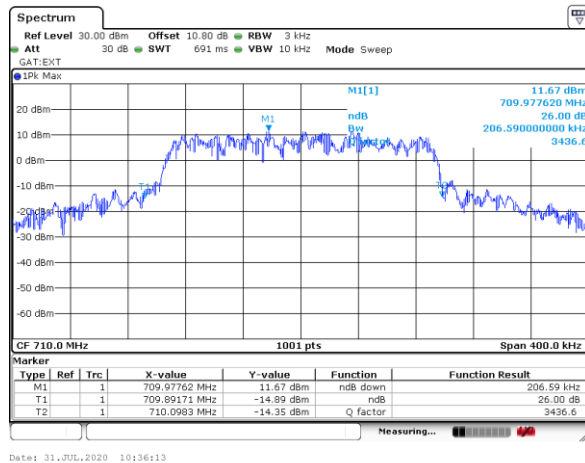


LTE Band 17

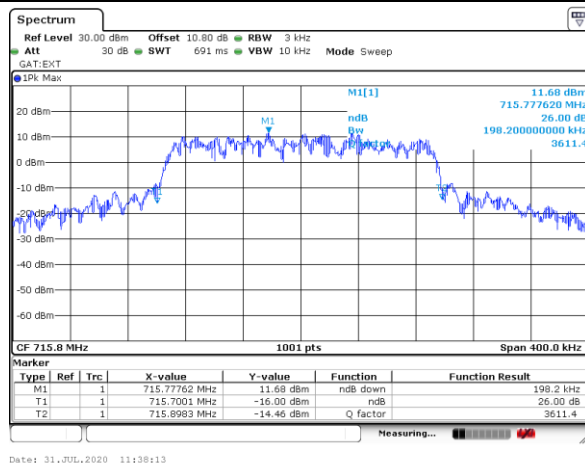
Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK



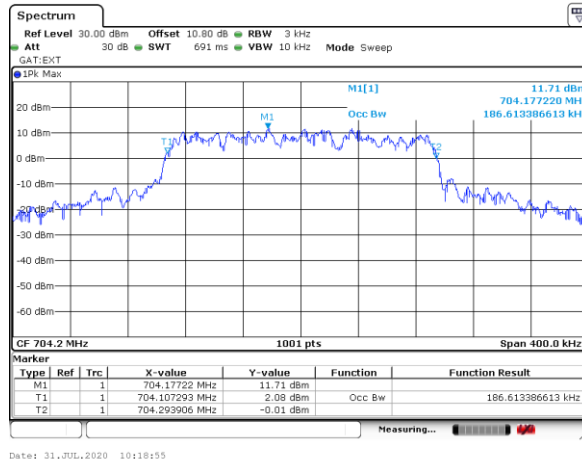
**Occupied Bandwidth**

Mode	LTE Band 17 : OB(kHz)
Subcarrier Spacing	15k
Mod.	QPSK
Lowest CH	186.61
Middle CH	187.01
Highest CH	187.41

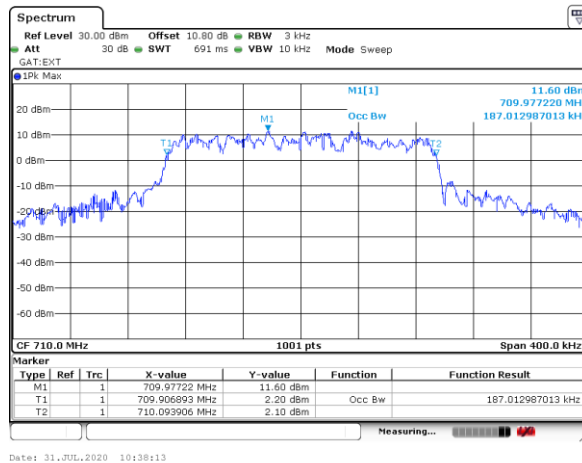


LTE Band 17

Lowest Channel / 15kHz / QPSK



Middle Channel / 15kHz / QPSK



Highest Channel / 15kHz / QPSK

