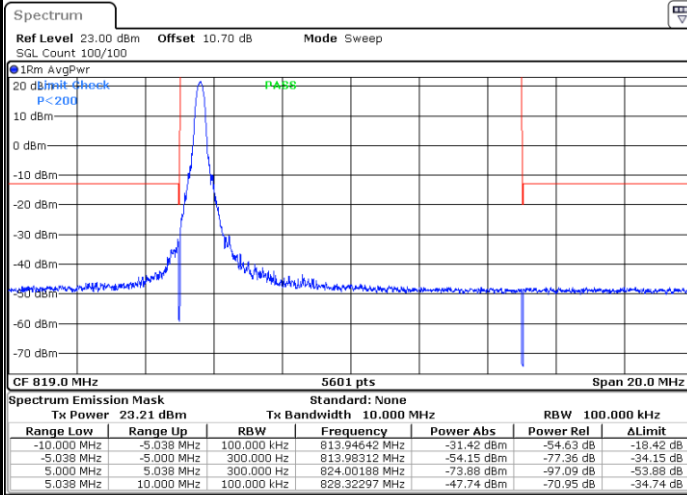




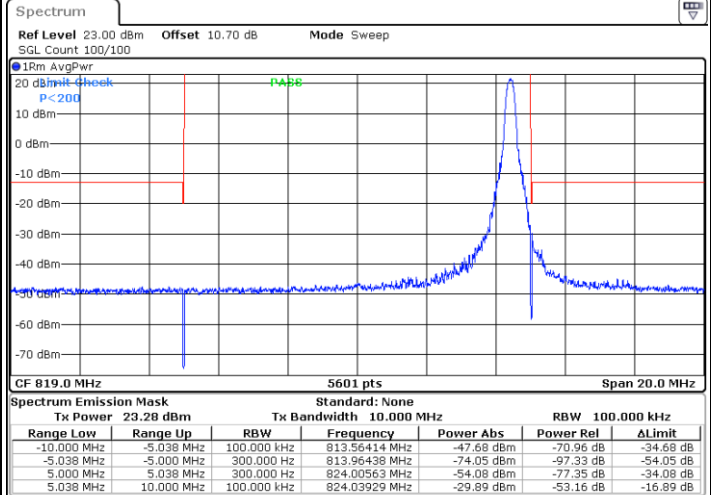
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



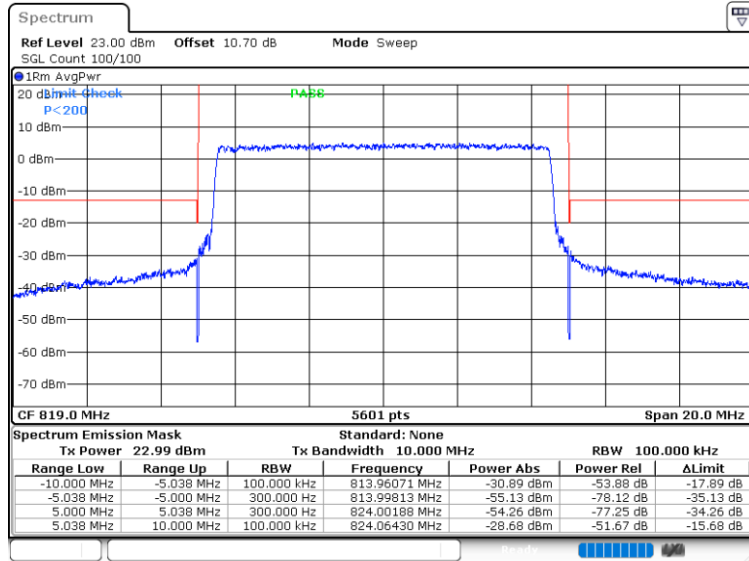
Date: 19.MAY.2022 08:20:52

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:22:40

Lowest Band Edge / Full RB

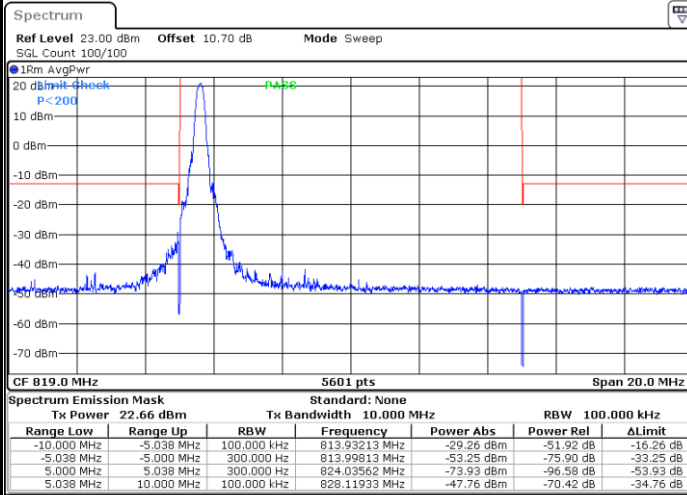


Date: 19.MAY.2022 08:24:28



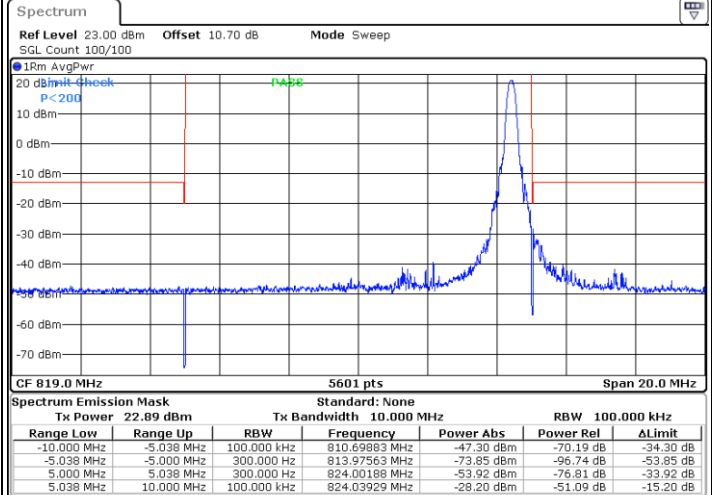
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



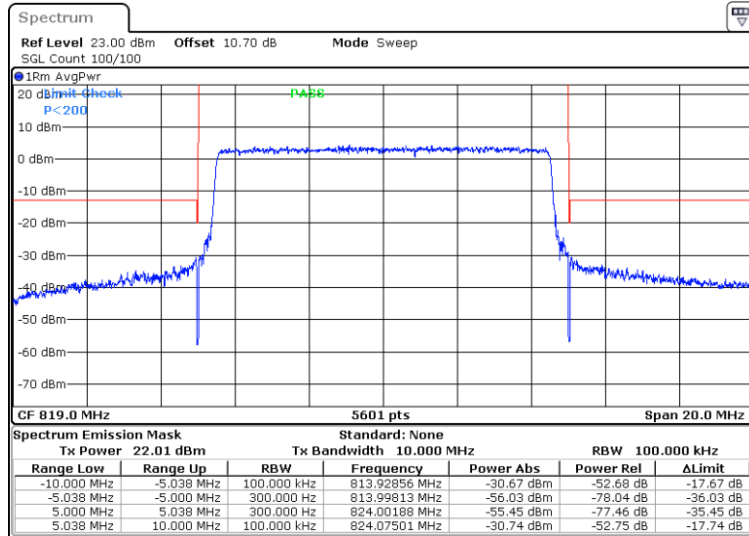
Date: 19.MAY.2022 08:21:46

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:23:34

Lowest Band Edge / Full RB

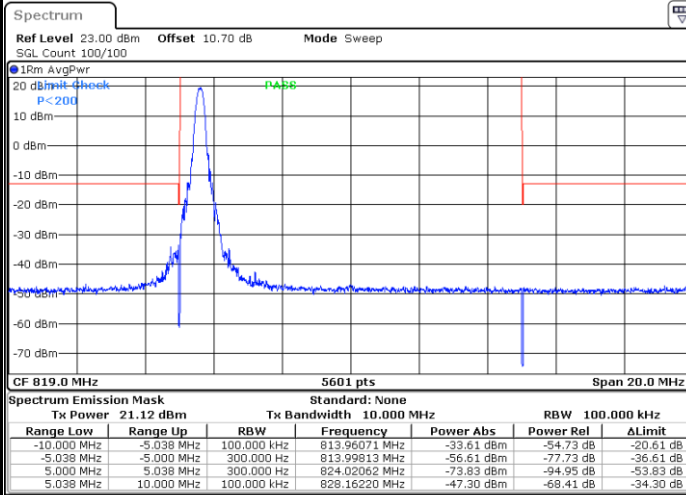


Date: 19.MAY.2022 08:25:22



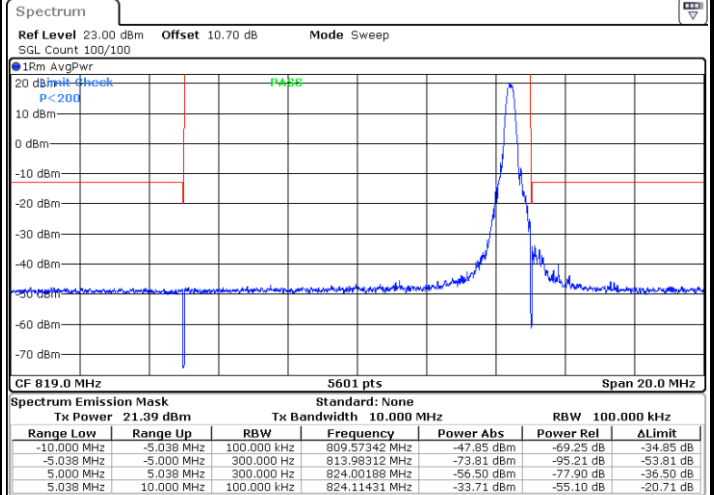
LTE Band 26 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



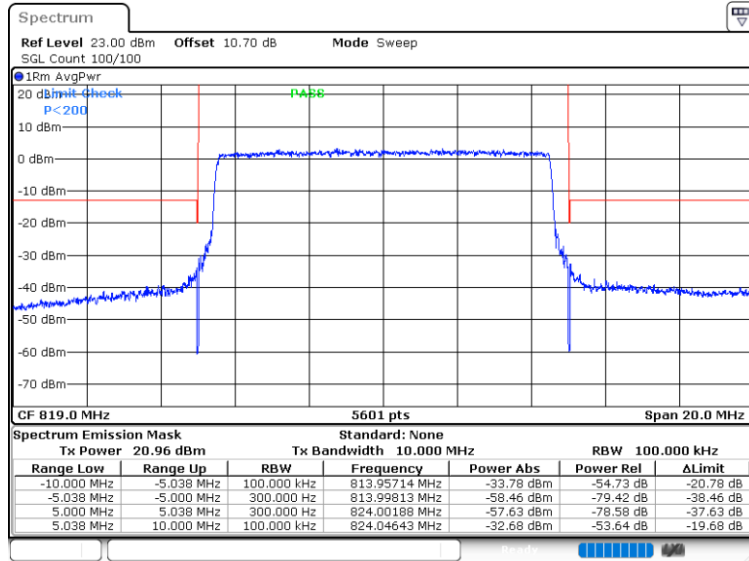
Date: 19.MAY.2022 08:43:54

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:44:48

Lowest Band Edge / Full RB

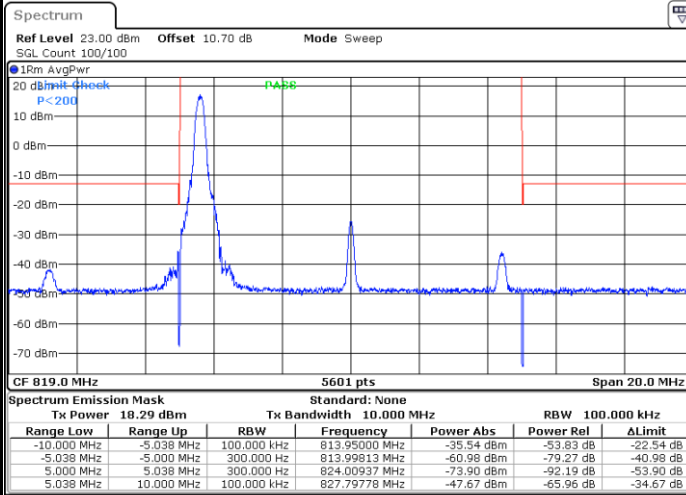


Date: 19.MAY.2022 08:45:42



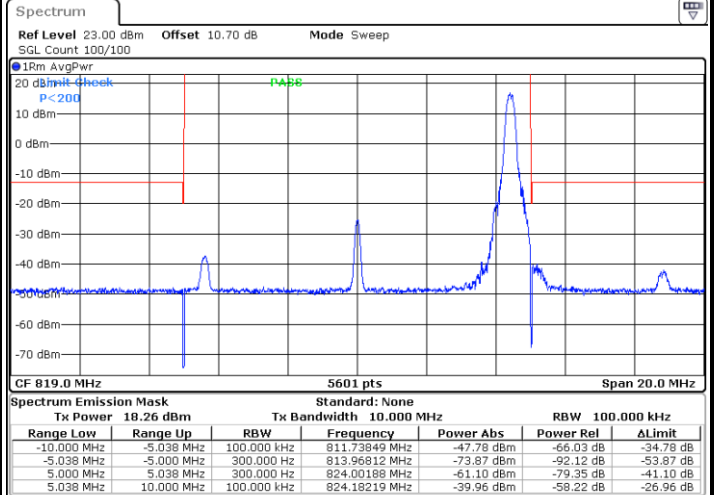
LTE Band 26 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



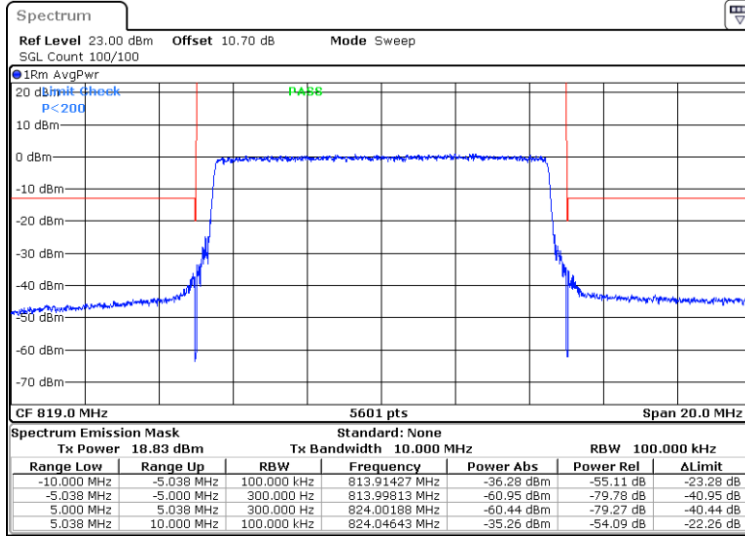
Date: 19.MAY.2022 09:25:59

Highest Band Edge / 1 RB



Date: 19.MAY.2022 09:31:28

Lowest Band Edge / Full RB

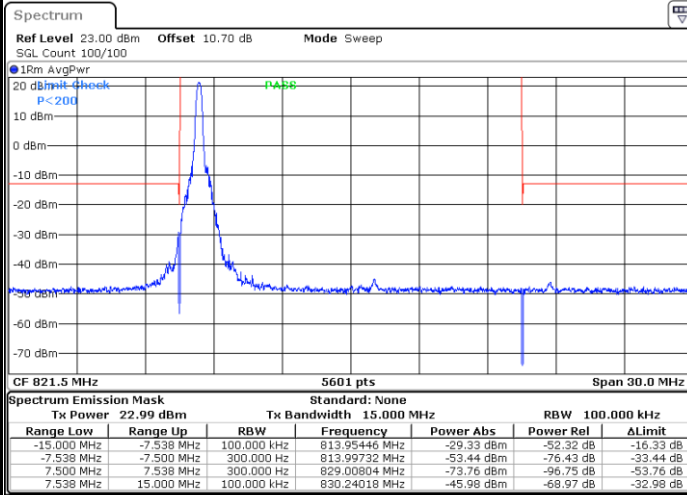


Date: 19.MAY.2022 09:33:08



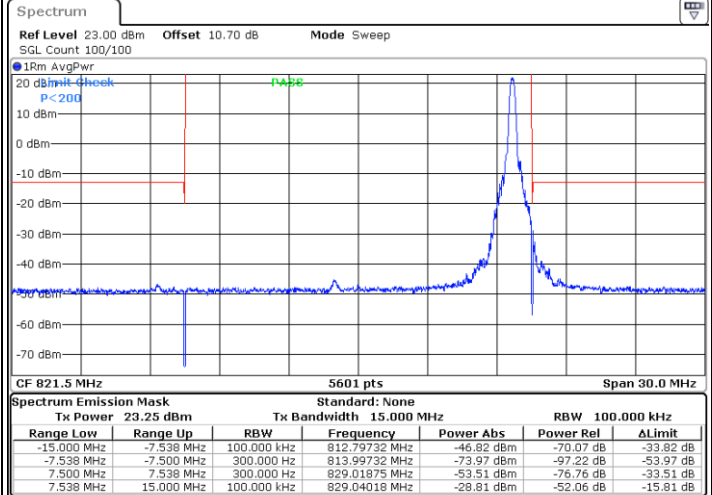
LTE Band 26 / 15MHz / QPSK

Lowest Band Edge / 1 RB



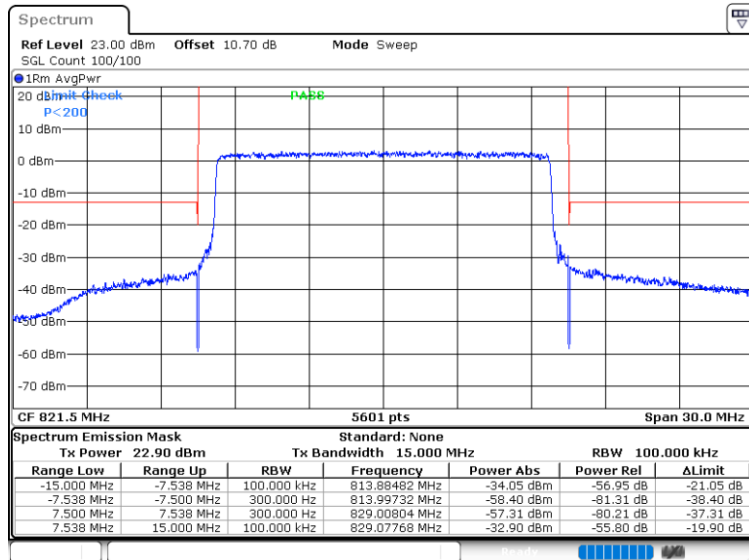
Date: 19.MAY.2022 08:31:17

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:33:05

Lowest Band Edge / Full RB

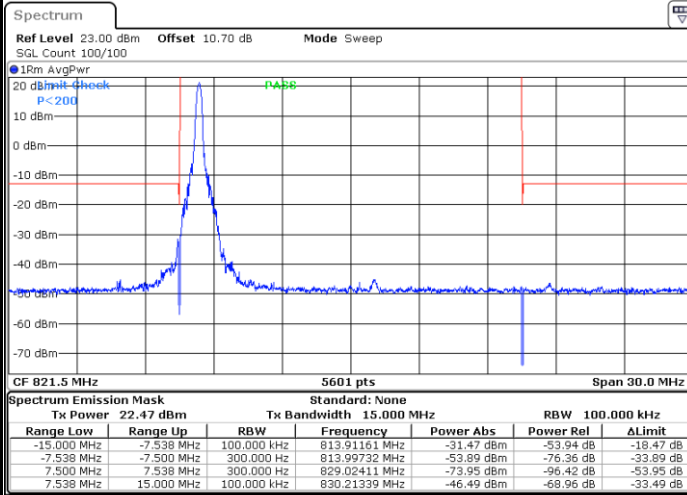


Date: 19.MAY.2022 08:34:52



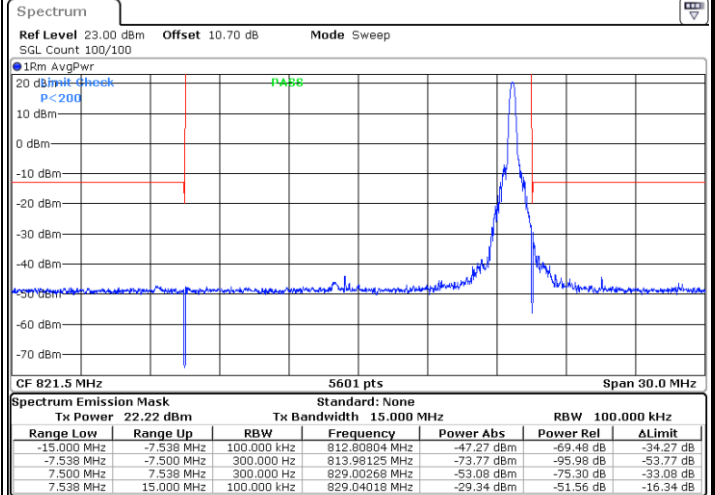
LTE Band 26 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



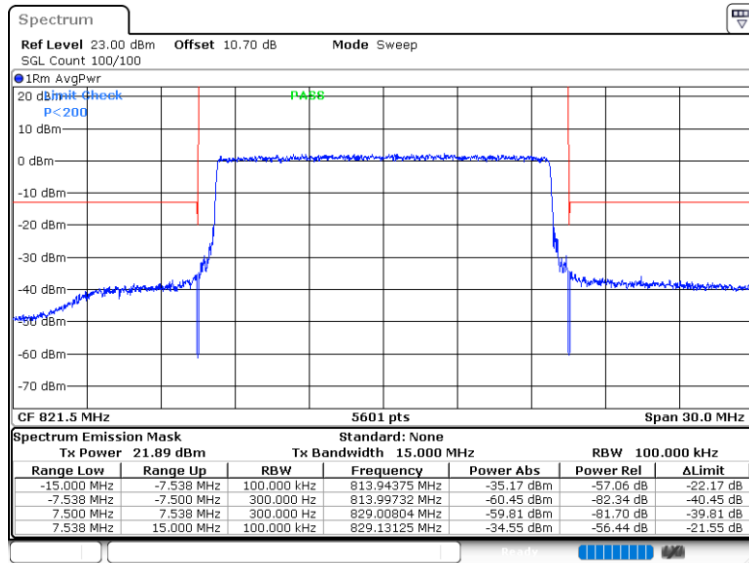
Date: 19.MAY.2022 08:32:11

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:33:58

Lowest Band Edge / Full RB

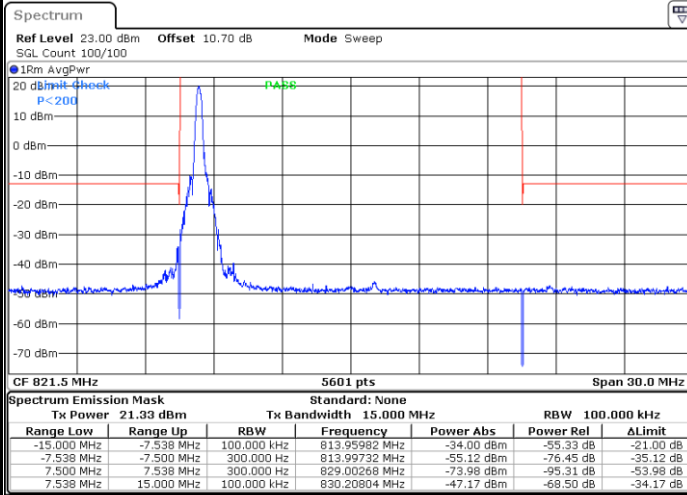


Date: 19.MAY.2022 08:35:46



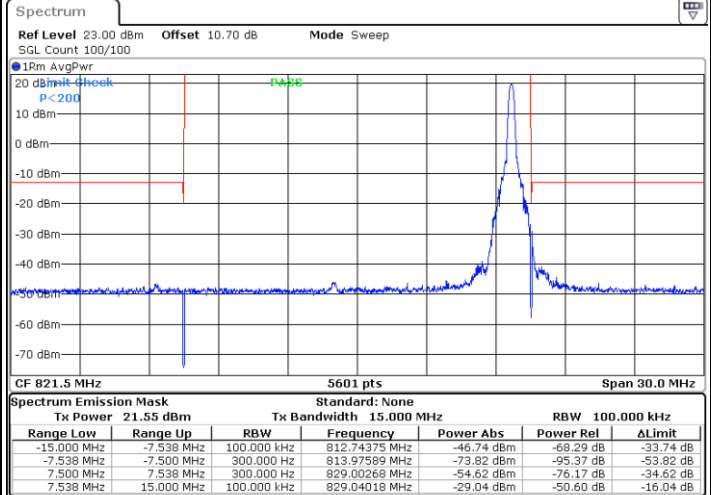
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



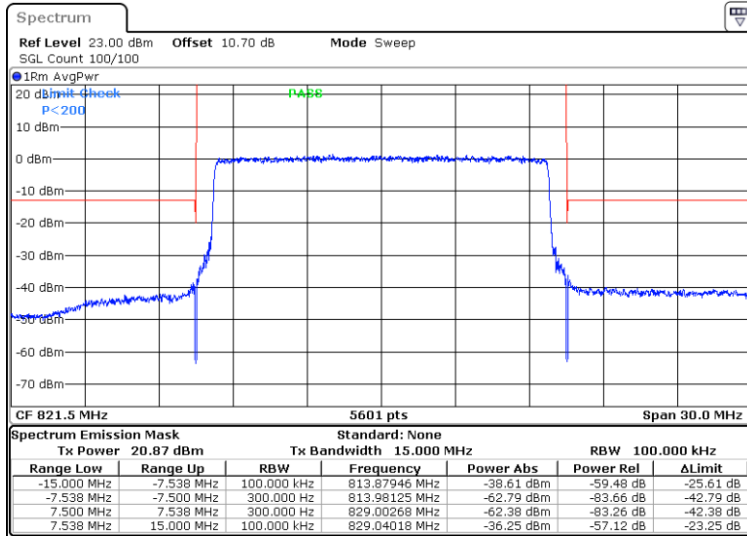
Date: 19.MAY.2022 08:46:36

Highest Band Edge / 1 RB



Date: 19.MAY.2022 08:47:30

Lowest Band Edge / Full RB

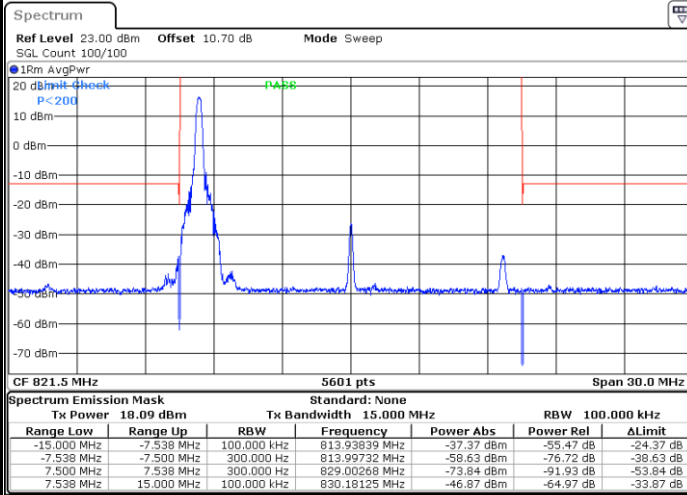


Date: 19.MAY.2022 08:48:24



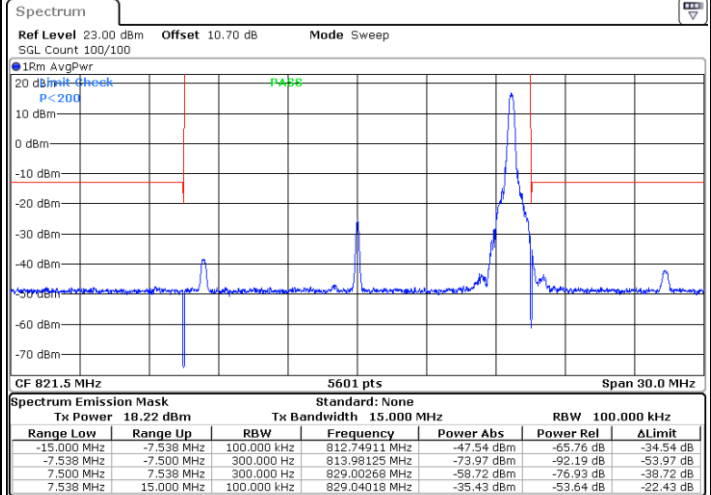
LTE Band 26 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



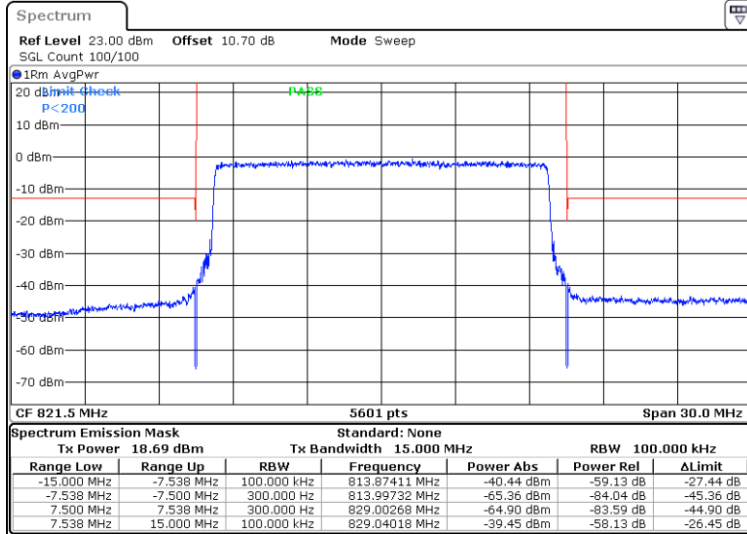
Date: 19.MAY.2022 09:37:55

Highest Band Edge / 1 RB



Date: 19.MAY.2022 09:38:52

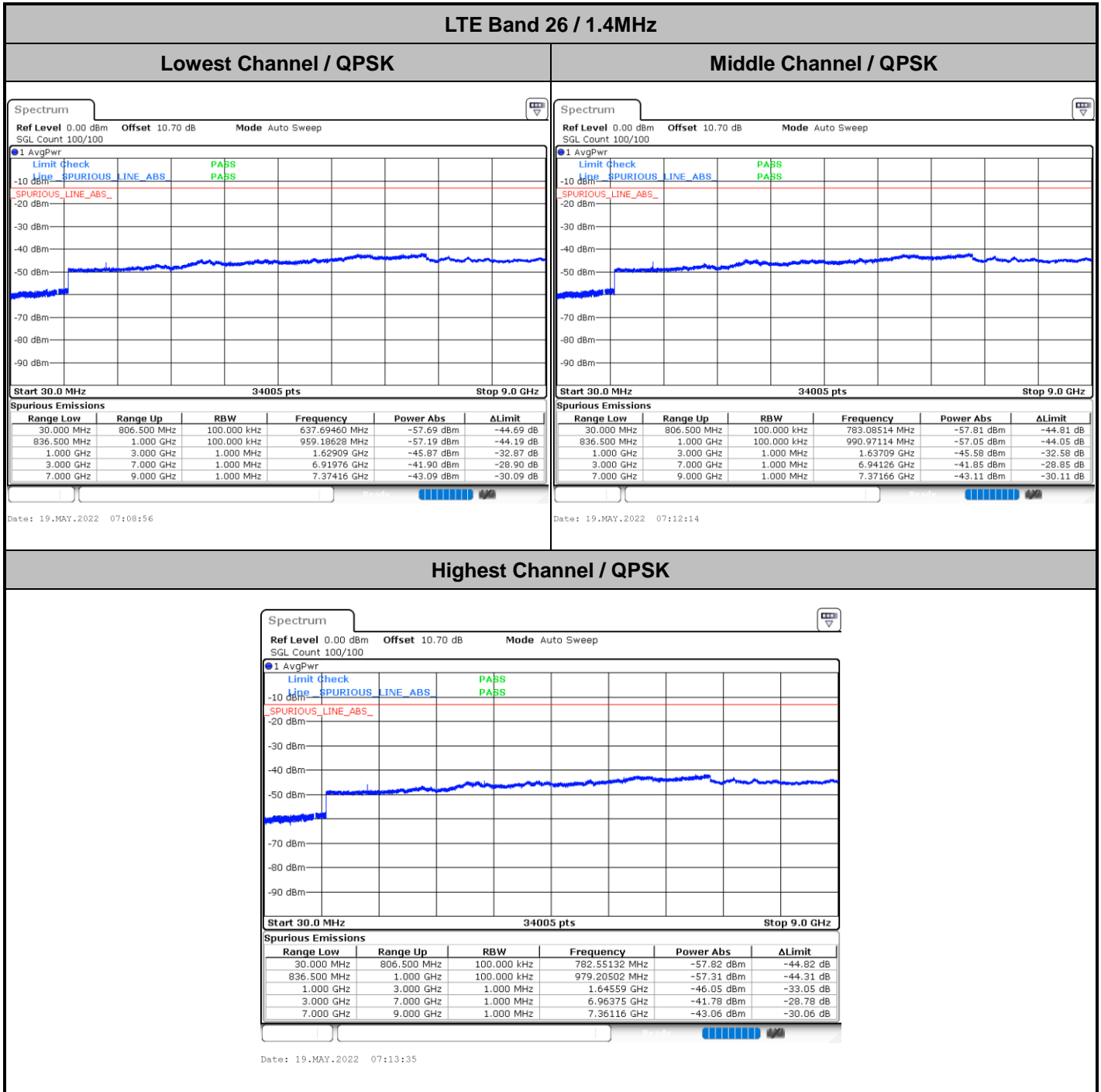
Lowest Band Edge / Full RB



Date: 19.MAY.2022 09:39:48



Emission masks – Out of band emissions

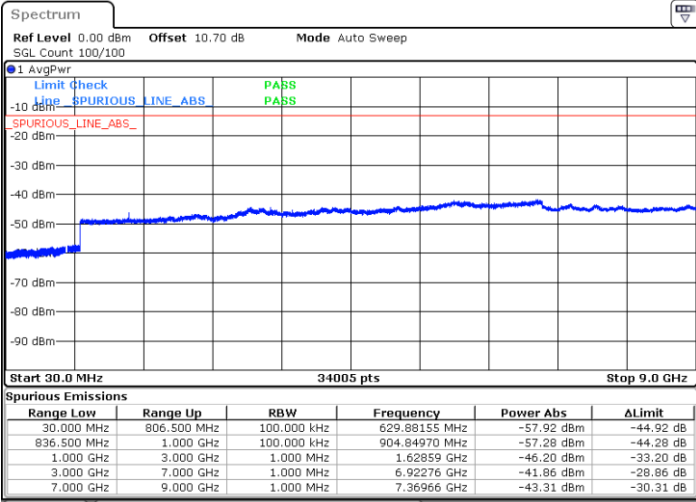




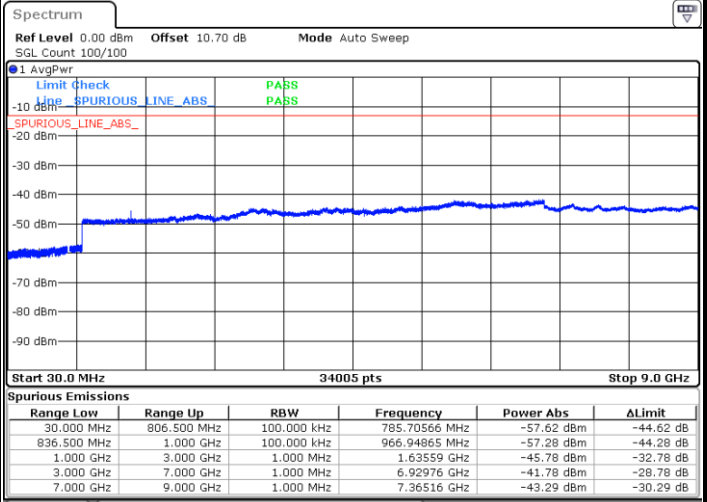
LTE Band 26 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

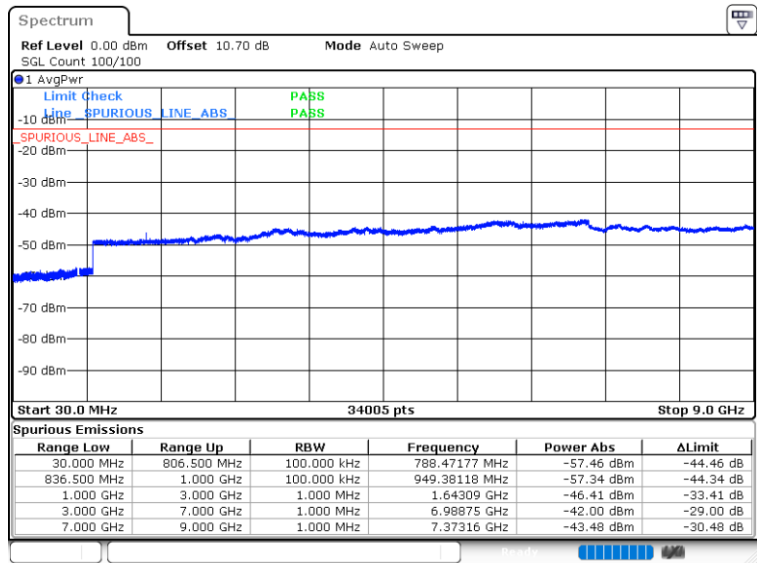


Date: 19.MAY.2022 07:39:13



Date: 19.MAY.2022 07:42:54

Highest Channel / QPSK



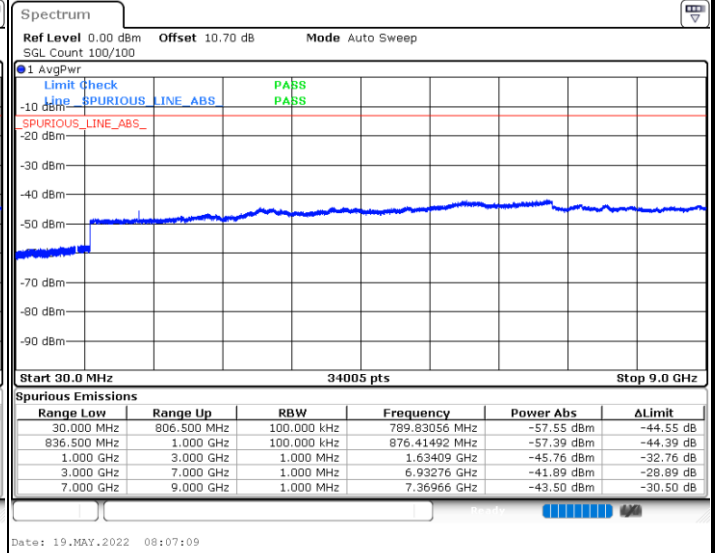
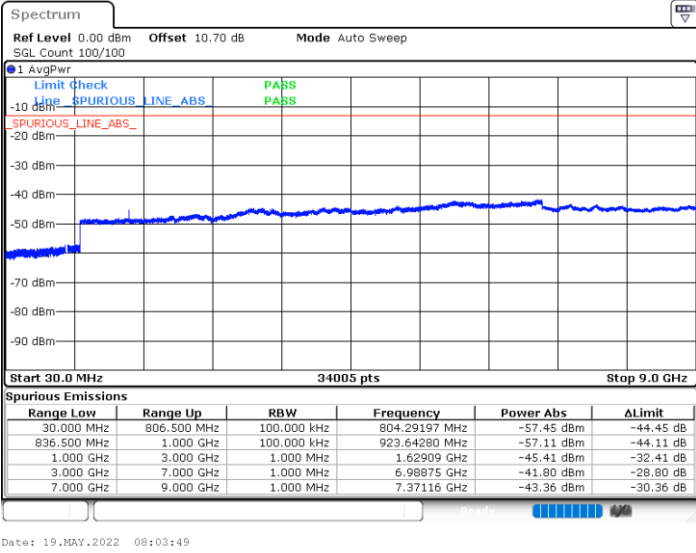
Date: 19.MAY.2022 07:44:12



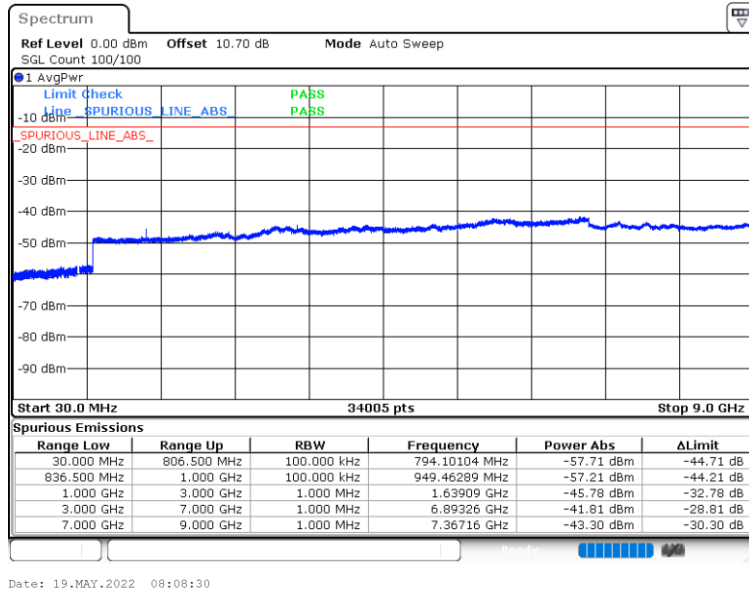
LTE Band 26 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



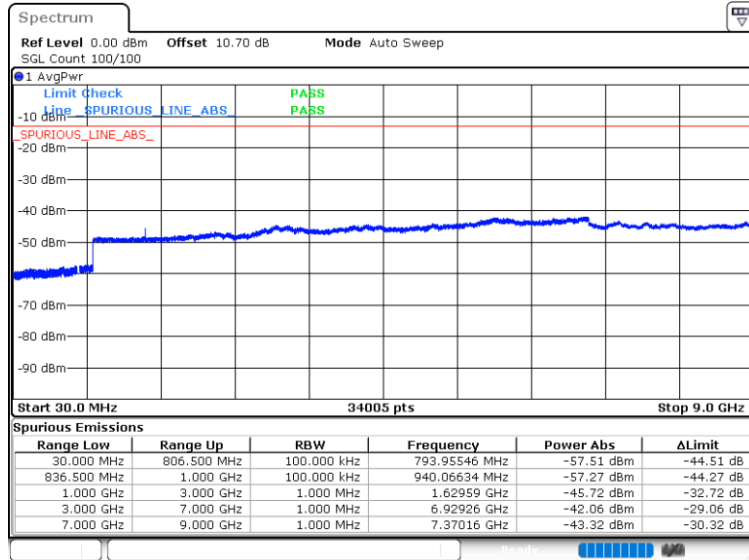
Highest Channel / QPSK





LTE Band 26 / 10MHz

Middle Channel / QPSK

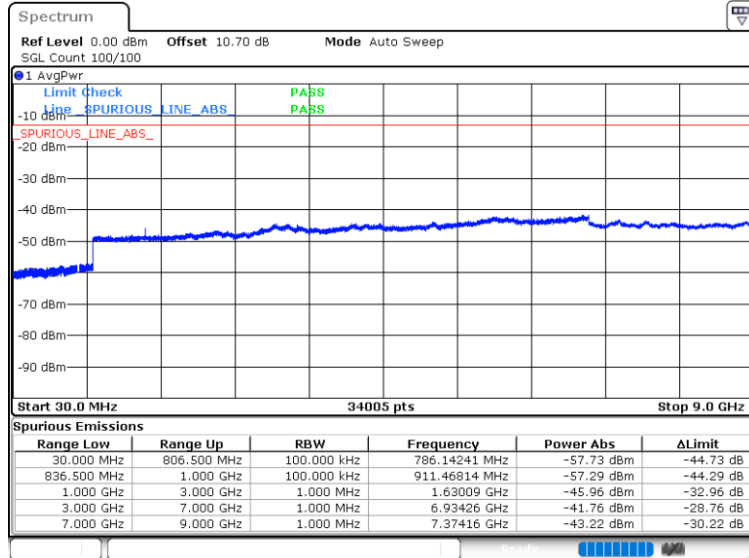


Date: 19.MAY.2022 08:29:02



LTE Band 26 / 15MHz

Middle Channel / QPSK



Date: 19.MAY.2022 08:52:04



Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0046	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0188	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0149	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0197	

Note:

- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.30 V. ; Maximum Voltage = 4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0049	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0094	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0073	
-30	Normal Voltage	0.0067	
20	Maximum Voltage	0.0091	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0111	

Note:

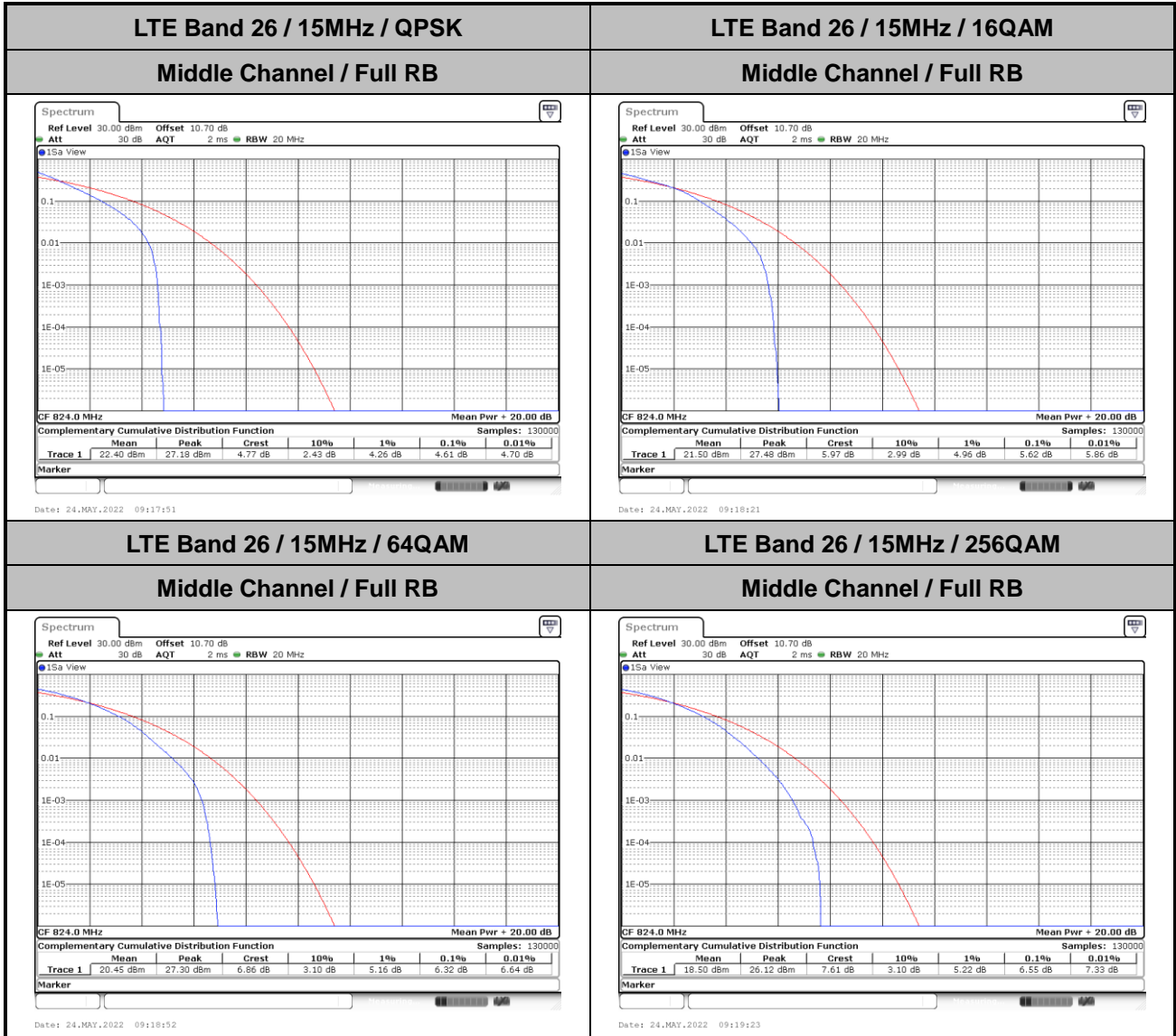
- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.30 V. ; Maximum Voltage = 4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26_824MHz

Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.62	6.32	6.55	PASS





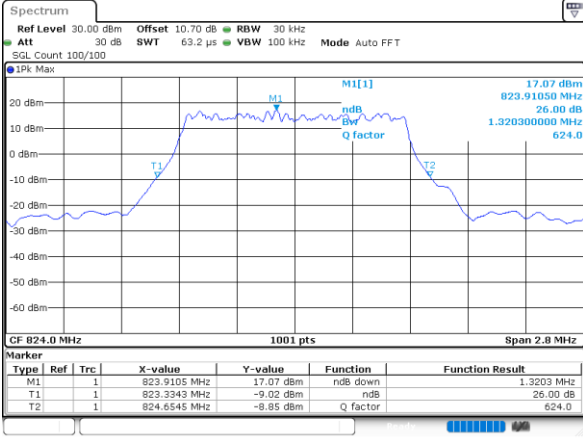
26dB Bandwidth

Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.32	1.35	3.13	3.02	5.01	4.99	9.97	9.79	14.63	14.57	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.32	1.31	3.06	3.09	4.98	4.95	9.75	9.91	14.51	14.87	-	-



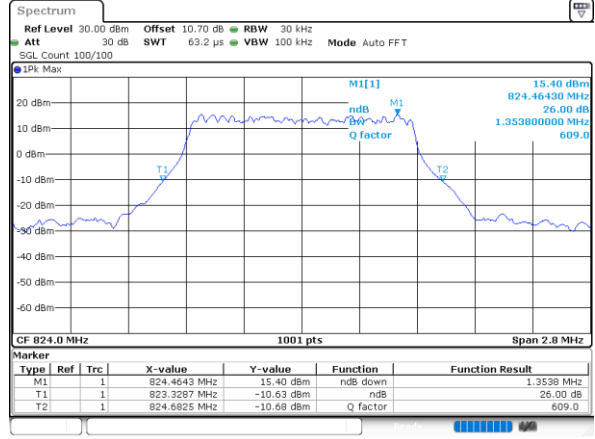
LTE Band 26

Middle Channel / 1.4MHz / QPSK



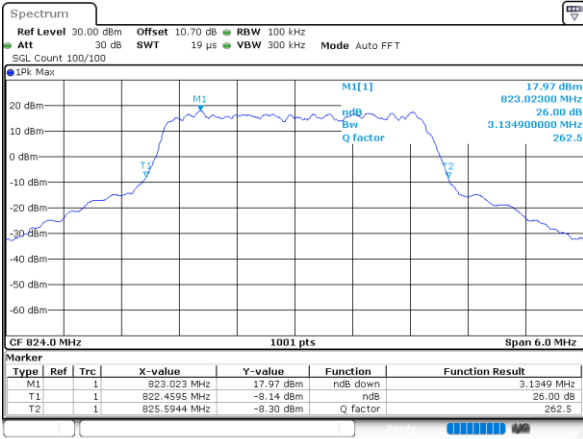
Date: 24.MAY.2022 09:03:11

Middle Channel / 1.4MHz / 16QAM



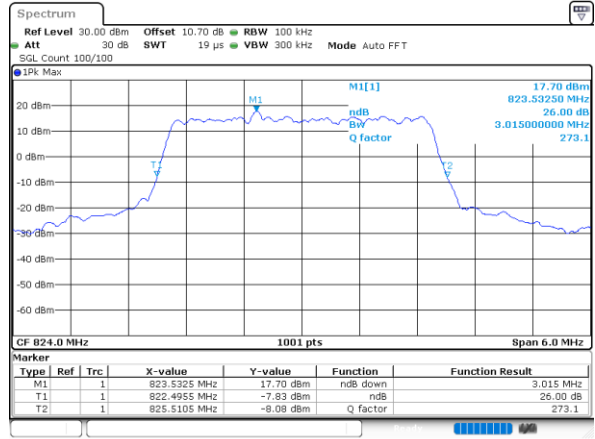
Date: 24.MAY.2022 09:03:40

Middle Channel / 3MHz / QPSK



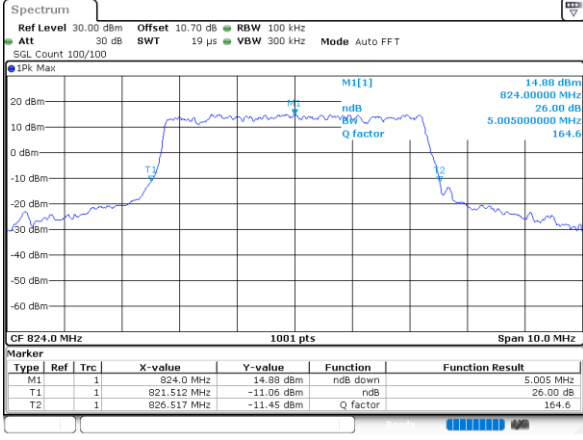
Date: 24.MAY.2022 09:06:10

Middle Channel / 3MHz / 16QAM



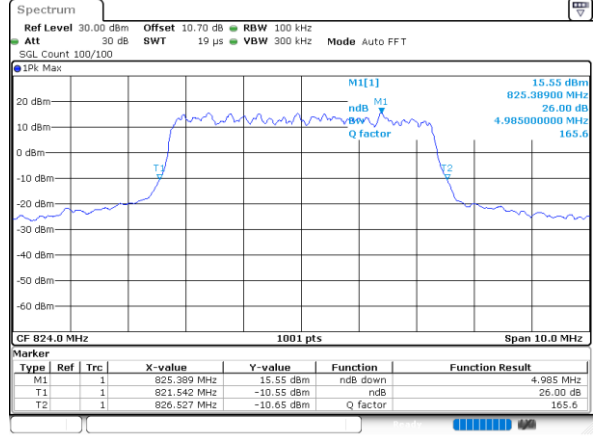
Date: 24.MAY.2022 09:06:39

Middle Channel / 5MHz / QPSK



Date: 24.MAY.2022 09:09:09

Middle Channel / 5MHz / 16QAM

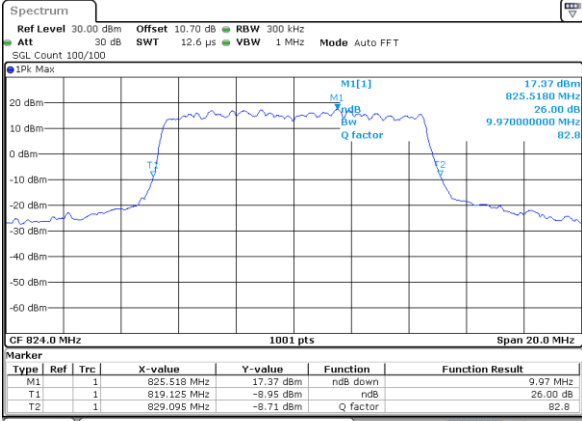


Date: 24.MAY.2022 09:09:38



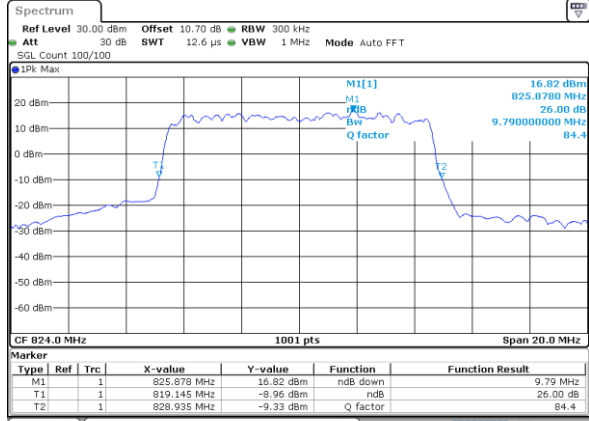
LTE Band 26

Middle Channel / 10MHz / QPSK



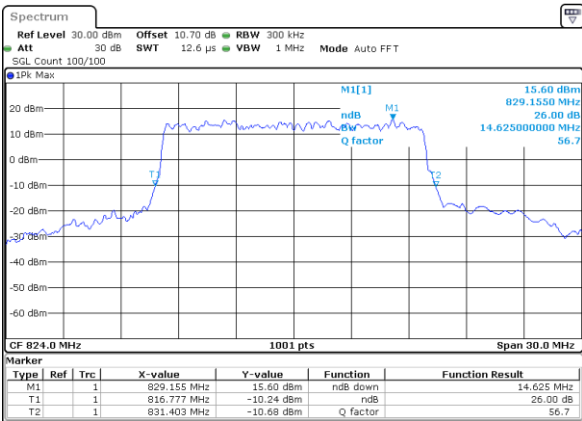
Date: 24.MAY.2022 09:12:08

Middle Channel / 10MHz / 16QAM



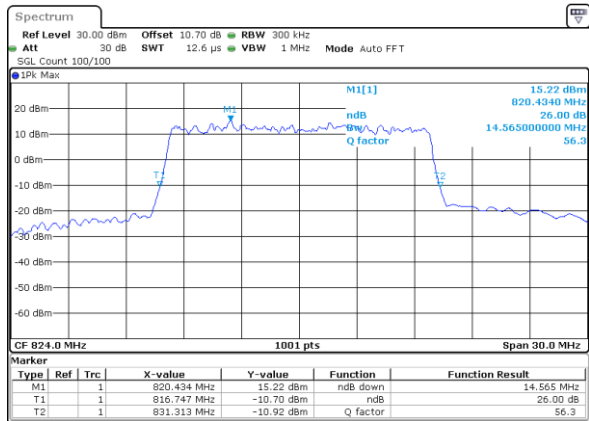
Date: 24.MAY.2022 09:12:37

Middle Channel / 15MHz / QPSK



Date: 24.MAY.2022 09:15:07

Middle Channel / 15MHz / 16QAM

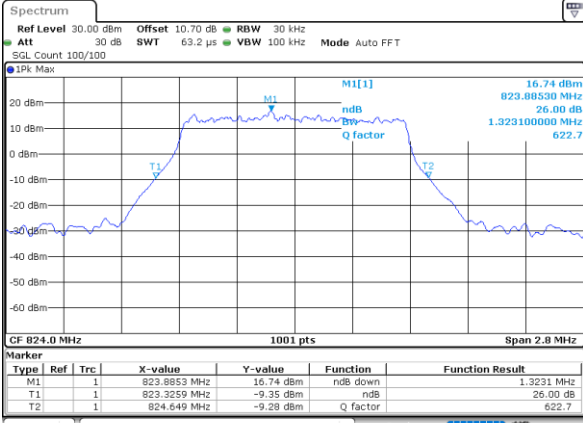


Date: 24.MAY.2022 09:15:36



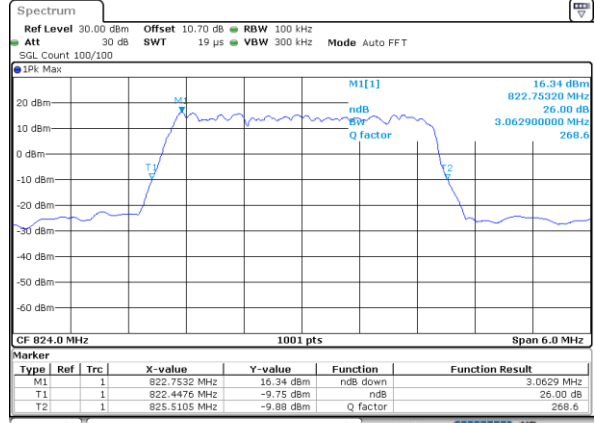
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



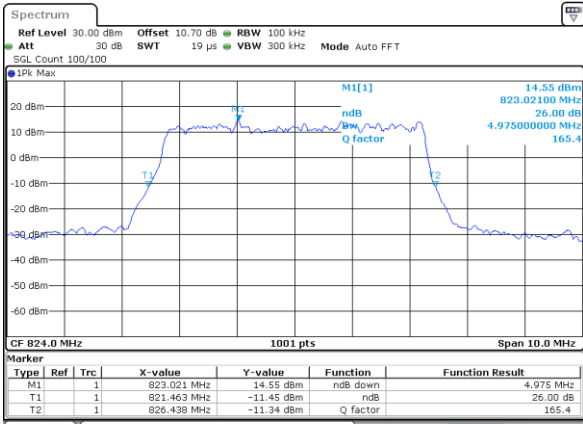
Date: 24.MAY.2022 09:04:38

Middle Channel / 3MHz / 64QAM



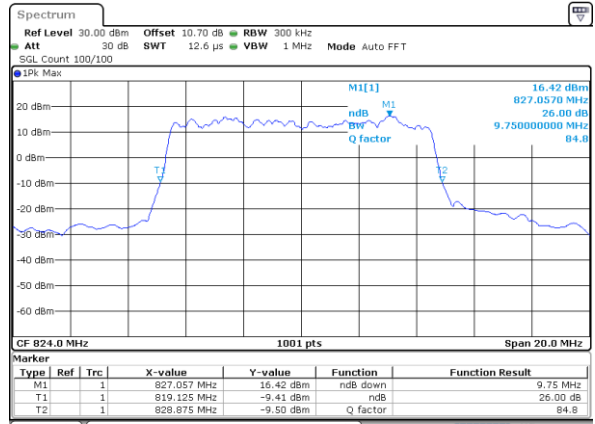
Date: 24.MAY.2022 09:07:37

Middle Channel / 5MHz / 64QAM



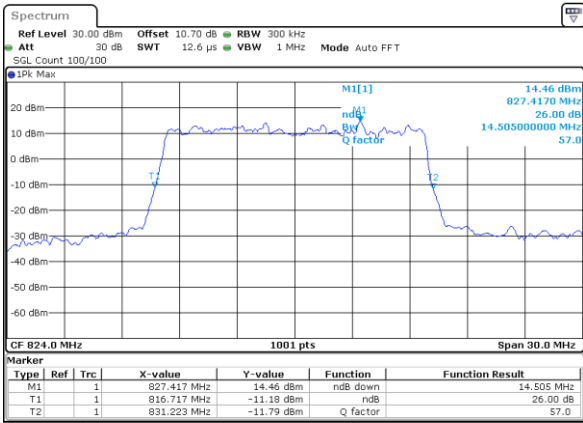
Date: 24.MAY.2022 09:10:36

Middle Channel / 10MHz / 64QAM



Date: 24.MAY.2022 09:13:35

Middle Channel / 15MHz / 64QAM



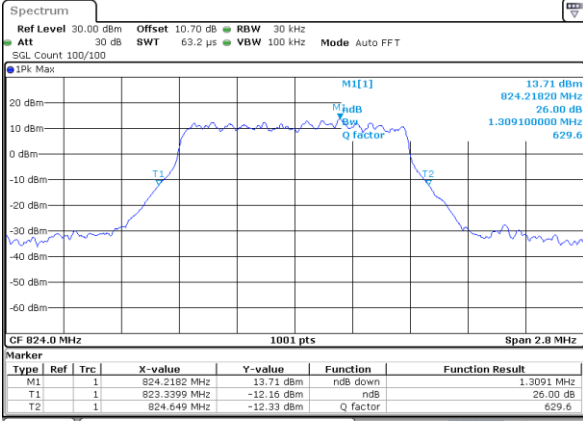
Date: 24.MAY.2022 09:16:34

N/A



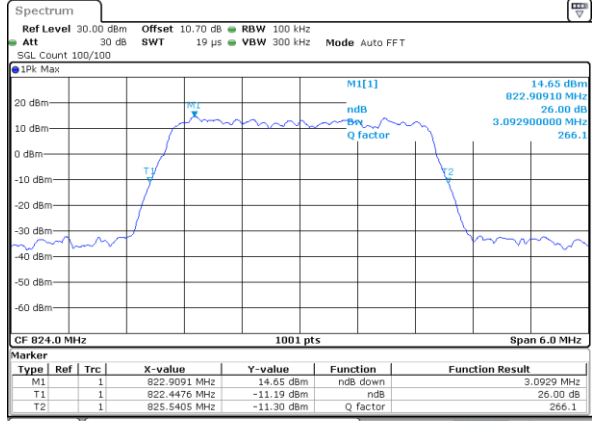
LTE Band 26

Middle Channel / 1.4MHz / 256QAM



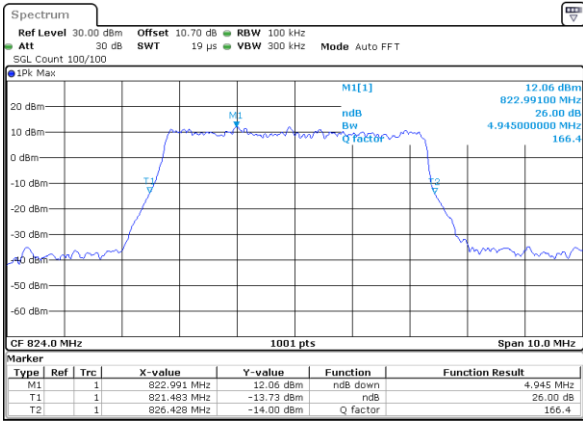
Date: 24.MAY.2022 09:05:21

Middle Channel / 3MHz / 256QAM



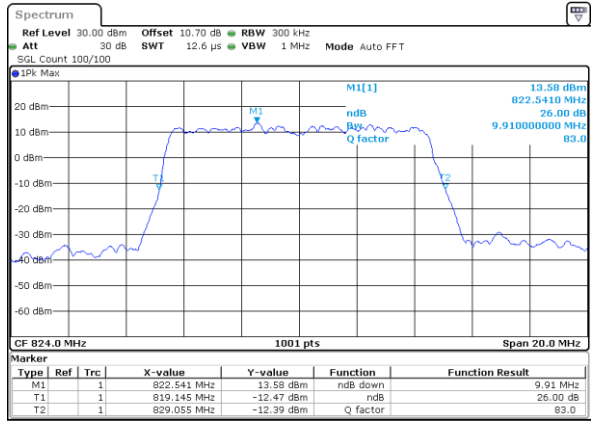
Date: 24.MAY.2022 09:10:20

Middle Channel / 5MHz / 256QAM



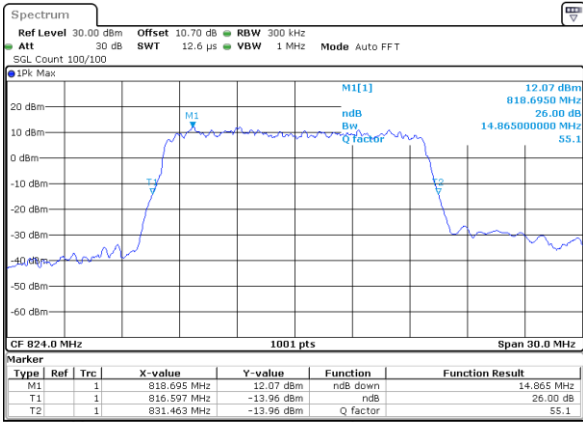
Date: 24.MAY.2022 09:11:19

Middle Channel / 10MHz / 256QAM



Date: 24.MAY.2022 09:14:18

Middle Channel / 15MHz / 256QAM



Date: 24.MAY.2022 09:17:17

N/A



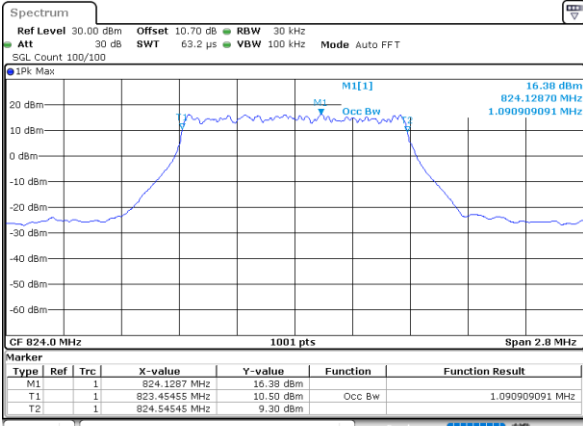
Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.72	2.73	4.51	4.47	9.05	9.03	13.49	13.43	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.10	1.09	2.73	2.74	4.50	4.51	8.99	9.09	13.43	13.37	-	-

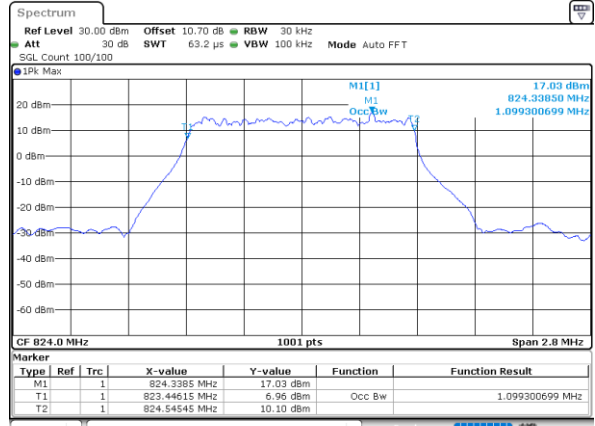


LTE Band 26

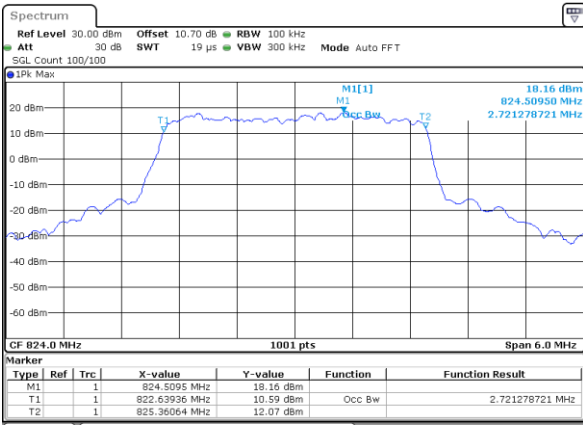
Middle Channel / 1.4MHz / QPSK



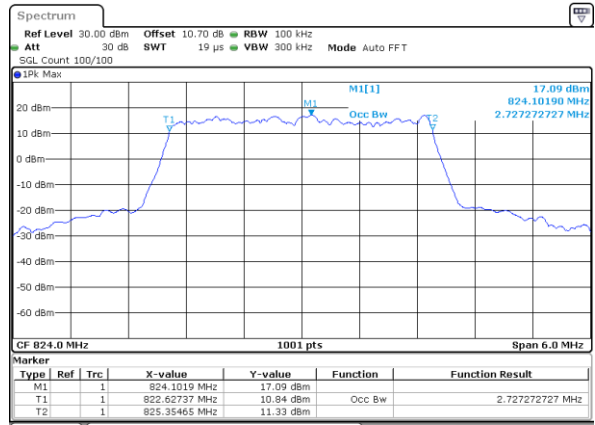
Middle Channel / 1.4MHz / 16QAM



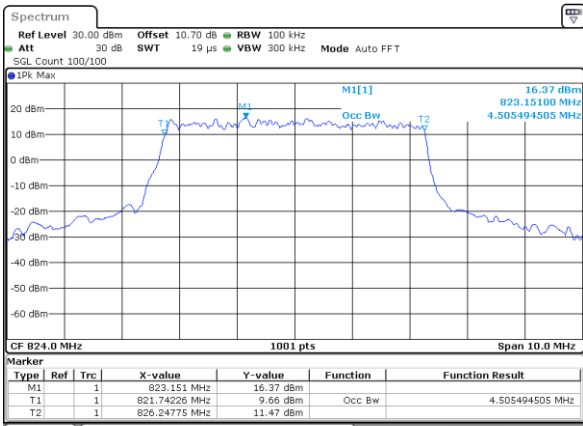
Middle Channel / 3MHz / QPSK



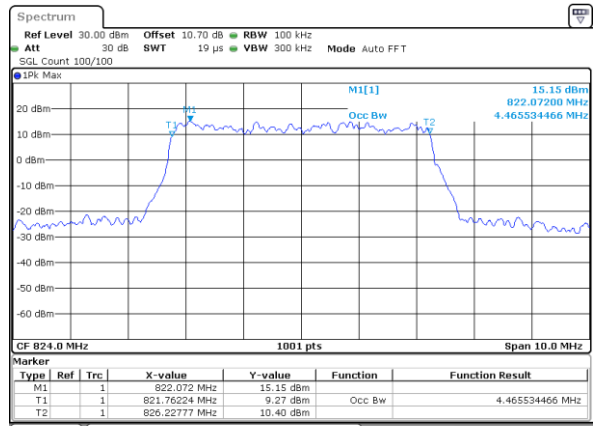
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



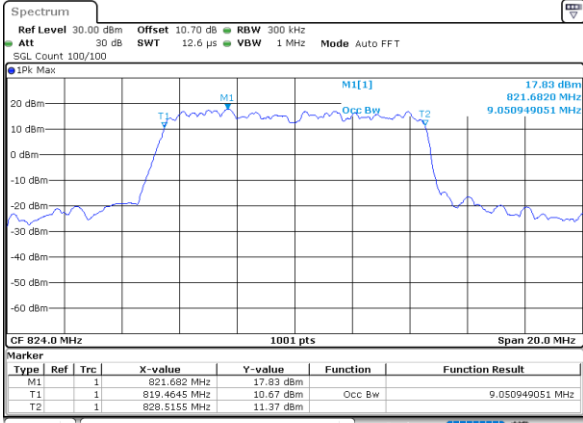
Middle Channel / 5MHz / 16QAM





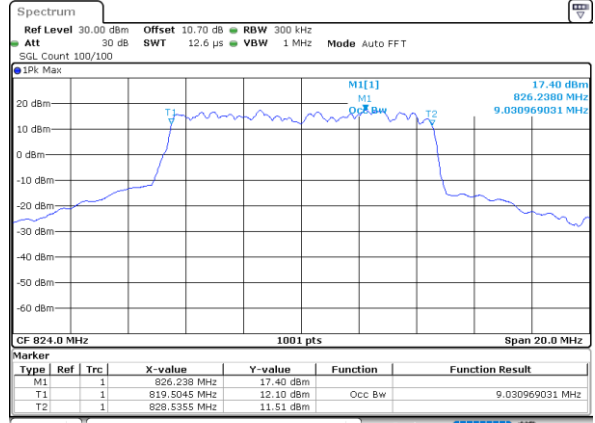
LTE Band 26

Middle Channel / 10MHz / QPSK



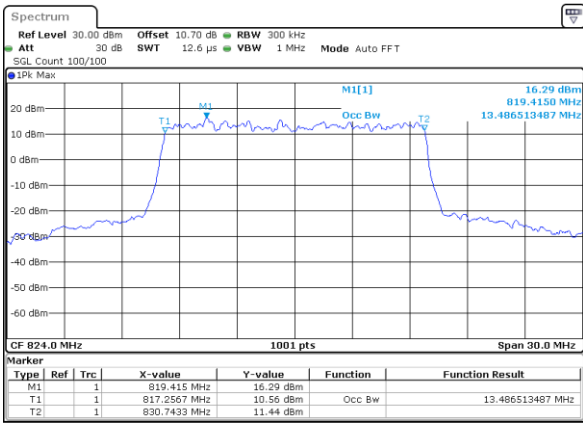
Date: 24.MAY.2022 09:11:54

Middle Channel / 10MHz / 16QAM



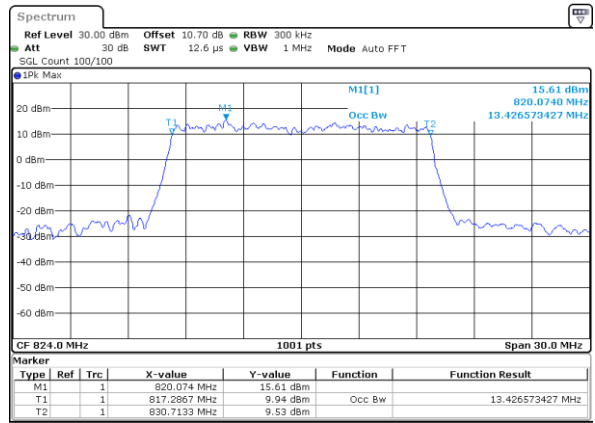
Date: 24.MAY.2022 09:12:51

Middle Channel / 15MHz / QPSK



Date: 24.MAY.2022 09:14:53

Middle Channel / 15MHz / 16QAM

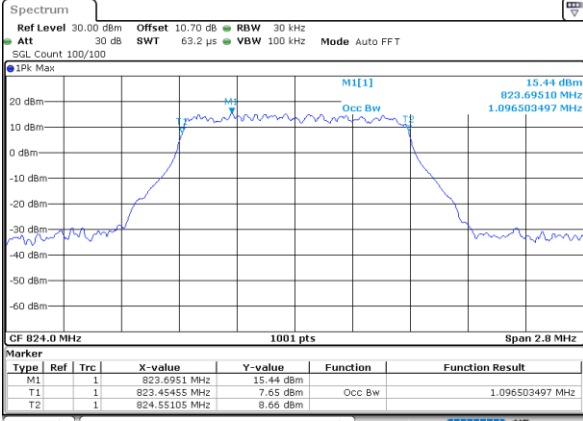


Date: 24.MAY.2022 09:15:50



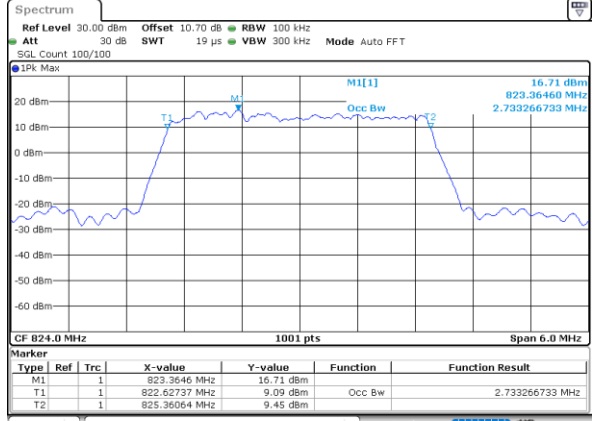
LTE Band 26

Middle Channel / 1.4MHz / 64QAM



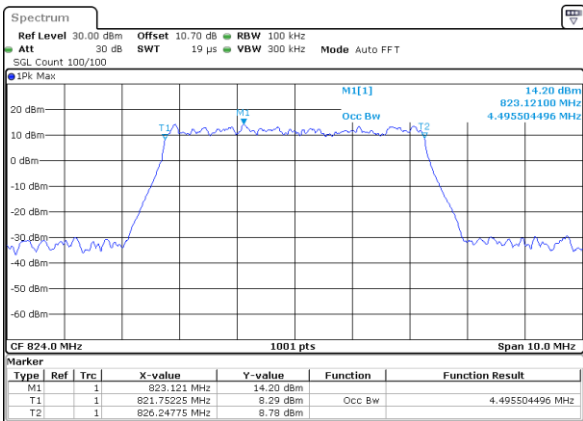
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Middle Channel / 3MHz / 64QAM



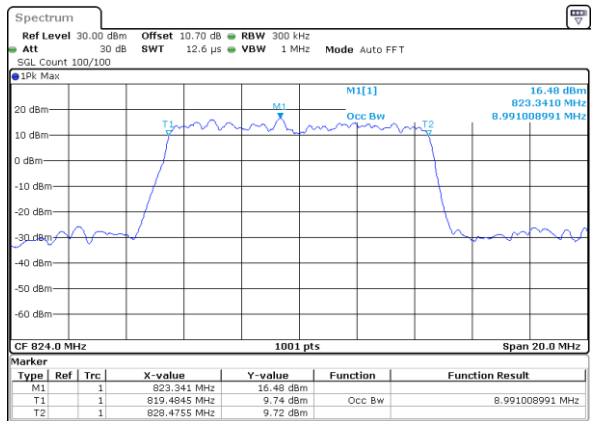
Date: 24.MAY.2022 09:07:23

Middle Channel / 5MHz / 64QAM



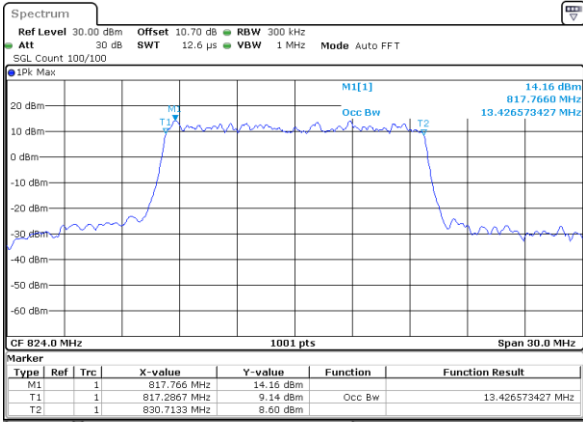
Date: 24.MAY.2022 09:10:22

Middle Channel / 10MHz / 64QAM



Date: 24.MAY.2022 09:13:21

Middle Channel / 15MHz / 64QAM



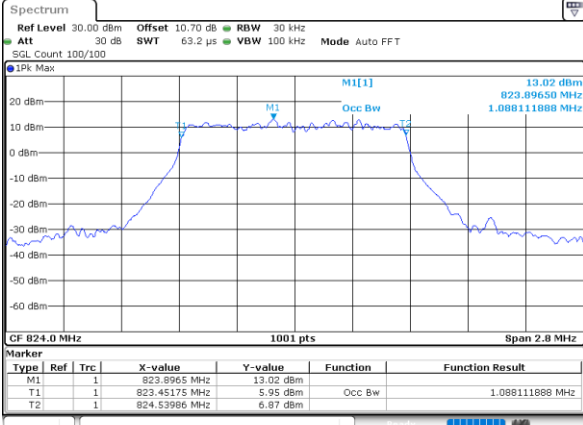
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N/A



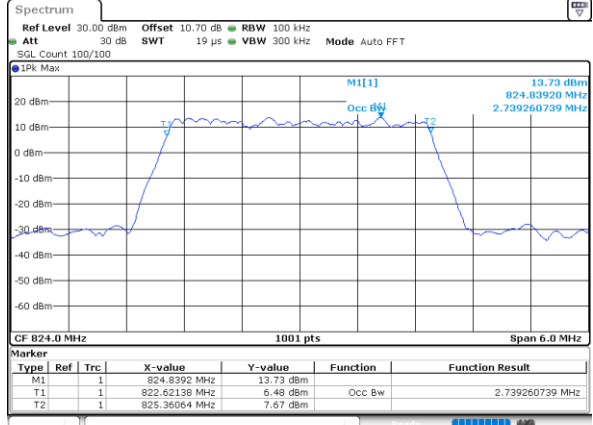
LTE Band 26

Middle Channel / 1.4MHz / 256QAM



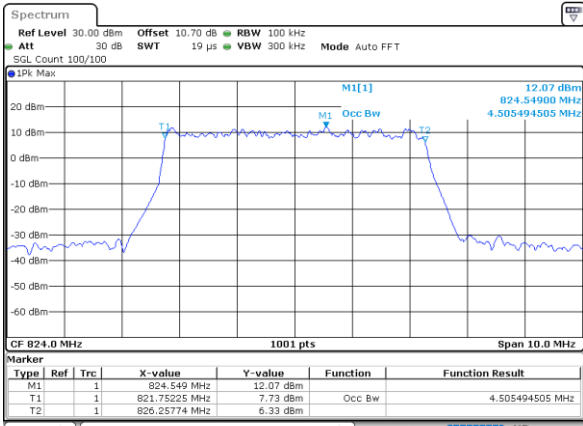
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Middle Channel / 3MHz / 256QAM



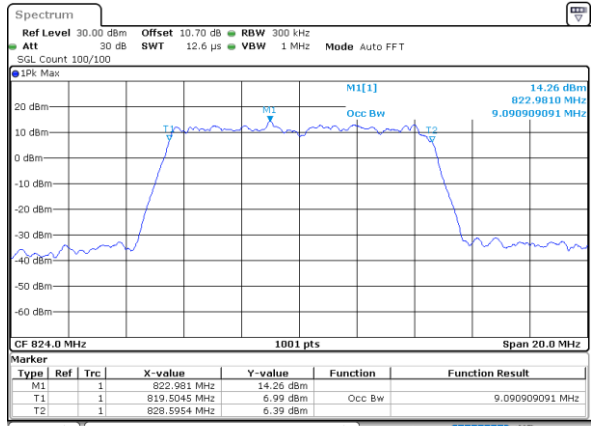
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Middle Channel / 5MHz / 256QAM



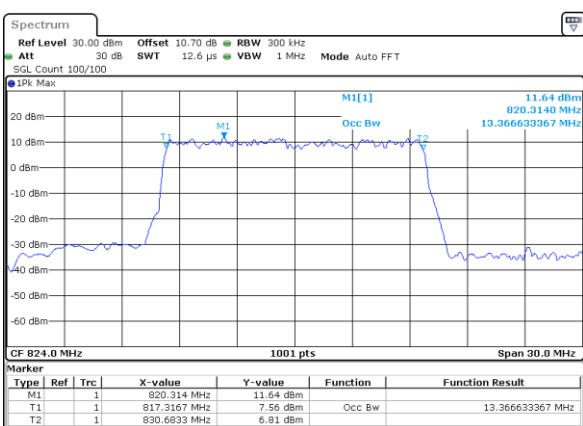
Date: 24.MAY.2022 09:11:05

Middle Channel / 10MHz / 256QAM



Date: 24.MAY.2022 09:14:04

Middle Channel /15MHz / 256QAM

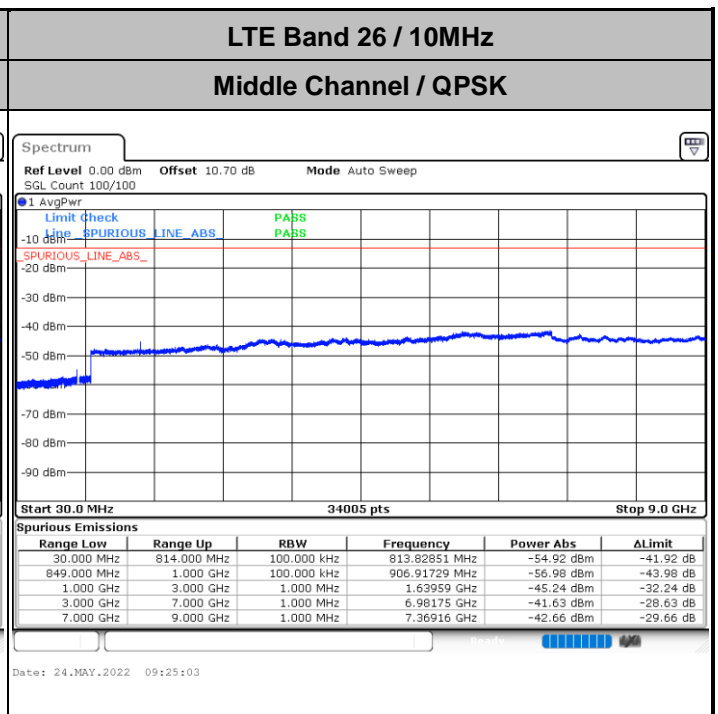
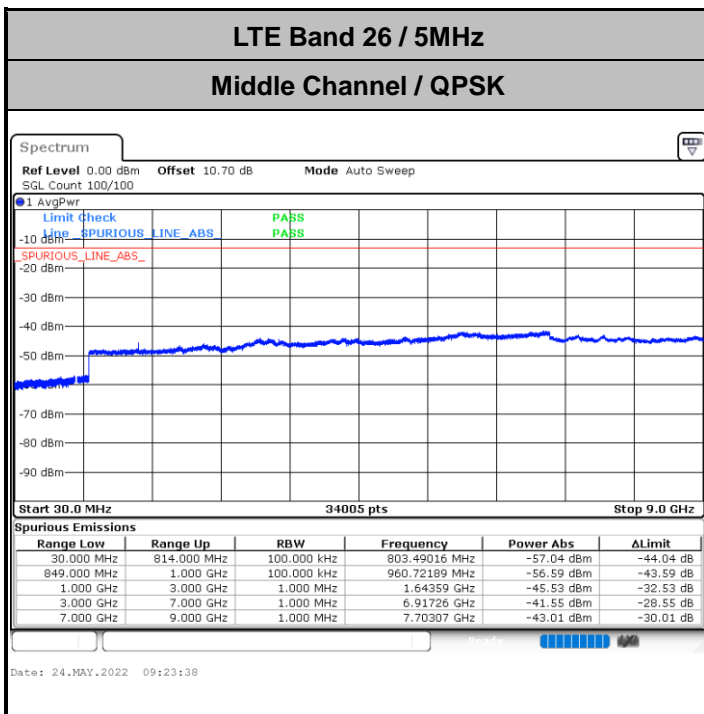
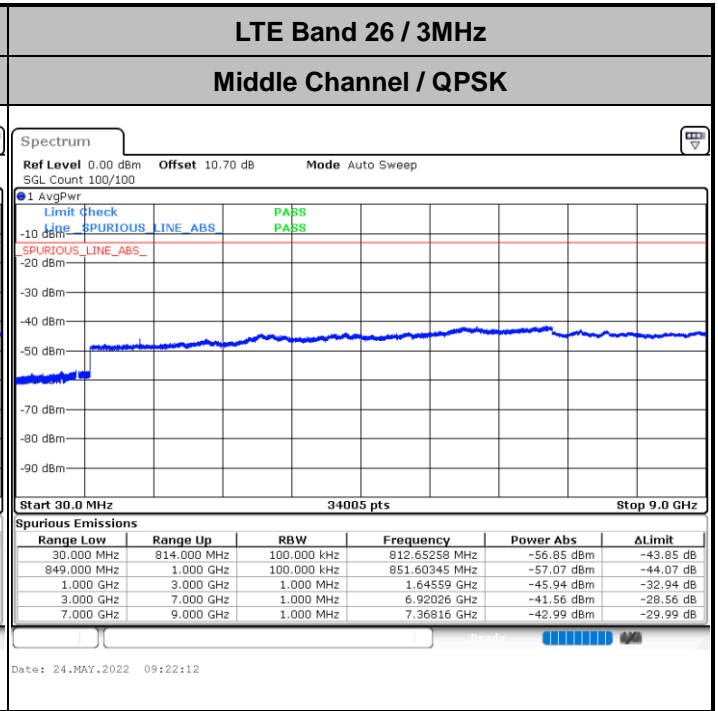
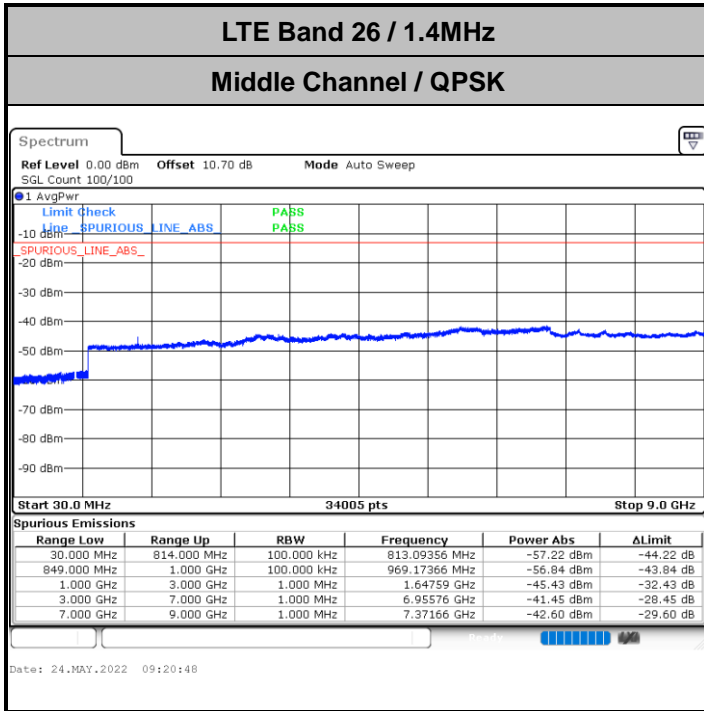


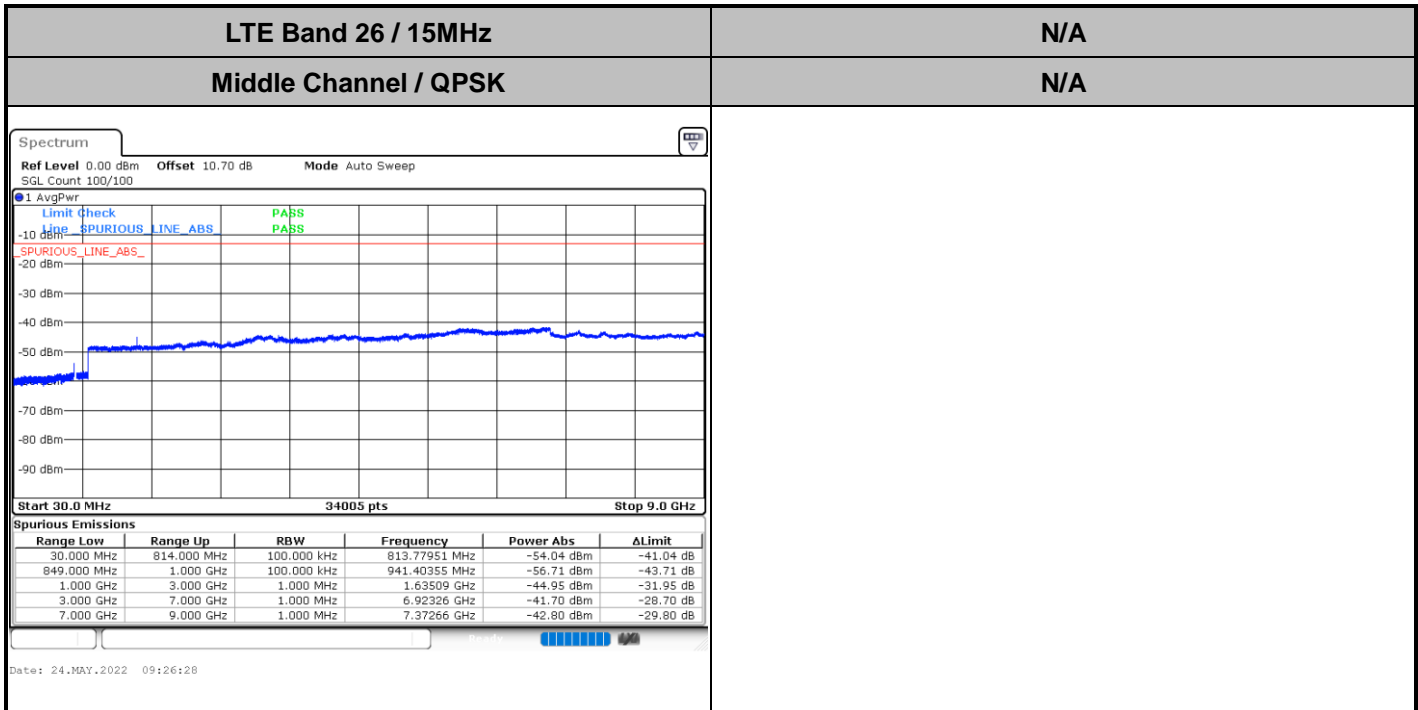
Date: 24.MAY.2022 09:17:03

N/A



Conducted Spurious Emission







Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0103	PASS
40	Normal Voltage	0.0098	
30	Normal Voltage	0.0088	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0094	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0094	
-20	Normal Voltage	0.0085	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0117	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

Note:

- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.30 V. ; Maximum Voltage = 4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0140	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0105	
0	Normal Voltage	0.0151	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0138	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0044	

Note:

- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.30 V. ; Maximum Voltage = 4.25 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE Band 26

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1624	-61.29	-13	-48.29	-73.02	-63.13	0.97	4.95	H
	2442	-59.23	-13	-46.23	-76.32	-61.03	1.27	5.23	H
	3256	-57.78	-13	-44.78	-76.91	-61.03	1.53	6.93	H
									H
									H
									H
									H
	1624	-61.92	-13	-48.92	-74.13	-63.76	0.97	4.95	V
	2442	-59.05	-13	-46.05	-76.58	-60.85	1.27	5.23	V
	3256	-57.33	-13	-44.33	-76.86	-60.58	1.53	6.93	V
									V
									V
									V
									V



LTE Band 26 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1624	-61.44	-13	-48.44	-73.17	-63.28	0.97	4.95	H
	2442	-59.14	-13	-46.14	-76.23	-60.94	1.27	5.23	H
	3256	-57.22	-13	-44.22	-76.36	-60.47	1.53	6.93	H
									H
									H
									H
									H
	1624	-62.53	-13	-49.53	-74.74	-64.37	0.97	4.95	V
	2442	-58.94	-13	-45.94	-76.47	-60.74	1.27	5.23	V
	3256	-57.46	-13	-44.46	-76.99	-60.71	1.53	6.93	V
									V
									V
									V
									V



LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1624	-60.82	-13	-47.82	-72.55	-62.66	0.97	4.95	H
	2442	-59.17	-13	-46.17	-76.26	-60.97	1.27	5.23	H
	3256	-57.58	-13	-44.58	-76.71	-60.83	1.53	6.93	H
									H
									H
									H
									H
	1624	-61.26	-13	-48.26	-73.47	-63.1	0.97	4.95	V
	2442	-58.86	-13	-45.86	-76.39	-60.66	1.27	5.23	V
	3256	-56.89	-13	-43.89	-76.42	-60.14	1.53	6.93	V
									V
									V
									V
									V
Middle	1632	-61.01	-13	-48.01	-72.77	-62.82	0.97	4.93	H
	2451	-59.01	-13	-46.01	-76.09	-60.84	1.28	5.25	H
	3268	-57.87	-13	-44.87	-77.01	-61.17	1.53	6.98	H
									H
									H
									H
									H
	1632	-62.25	-13	-49.25	-74.49	-64.06	0.97	4.93	V
	2451	-58.65	-13	-45.65	-76.17	-60.48	1.28	5.25	V
	3268	-57.33	-13	-44.33	-76.87	-60.63	1.53	6.98	V
									V
									V
									V
									V
								V	



LTE Band 26 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1638	-63.36	-13	-50.36	-75.26	-65.15	0.97	4.91	H
	2457	-58.83	-13	-45.83	-75.98	-60.67	1.28	5.27	H
	3276	-57.57	-13	-44.57	-76.79	-60.9	1.53	7.01	H
									H
									H
									H
									H
	1638	-62.80	-13	-49.80	-75.17	-64.59	0.97	4.91	V
	2457	-58.38	-13	-45.38	-75.97	-60.22	1.28	5.27	V
	3276	-57.34	-13	-44.34	-76.93	-60.67	1.53	7.01	V
									V
									V
									V
									V

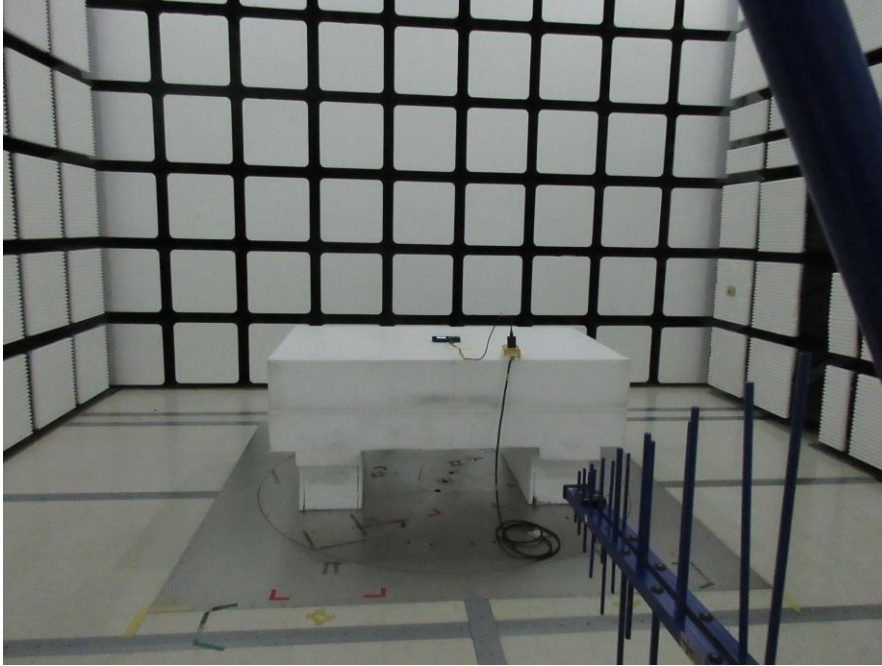
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Appendix C. Setup Photographs

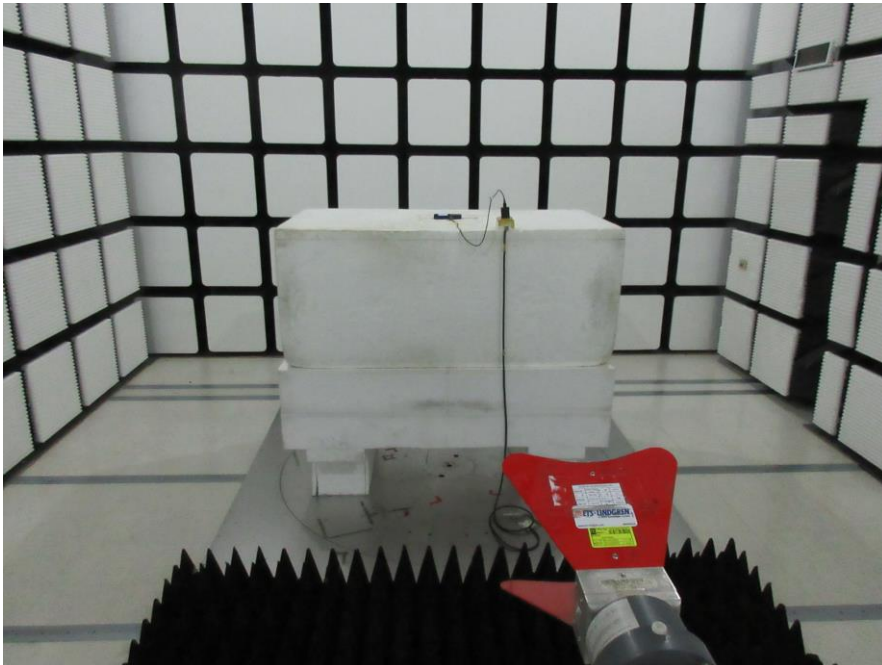
<Radiated Emission>

X Plane

LF



HF



————THE END————