



REPORT No.: SZ24060206W07

TEST REPORT

APPLICANT : FJ Dynamics Co.,Ltd.

PRODUCT NAME : Field Controller

MODEL NAME : E600

BRAND NAME : FJD Trion

FCC ID : 2A2LL-E600

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22, Subpart H
47 CFR Part 27, Subpart D&M

RECEIPT DATE : 2024-06-21

TEST DATE : 2024-07-30 to 2024-09-27

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Change History		
Version	Date	Reason for change
1.0	2024-10-30	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	FJ Dynamics Co.,Ltd.
Applicant Address:	Floor 21, Das Tower, No. 28, 1st South Keji Road, High-tech Zone, Yuehai Subdistrict, Nanshan District, Shenzhen, China
Manufacturer:	FJ Dynamics Co.,Ltd.
Manufacturer Address:	Floor 21, Das Tower, No. 28, 1st South Keji Road, High-tech Zone, Yuehai Subdistrict, Nanshan District, Shenzhen, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Field Controller	
Sample No.:	2#,5#	
Hardware Version:	V1.0	
Software Version:	V1.0	
Modulation Type:	QPSK, 16QAM	
Carrier Aggregation:	Not Support	
Operation Band:	Band 5 / 7 / 38 / 40 / 41	
Frequency Range:	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz
	LTE Band 40 Block A	Tx: 2305MHz–2315MHz
		Rx: 2305MHz–2315MHz
	LTE Band 40 Block B	Tx: 2350MHz–2360MHz
		Rx: 2350MHz–2360MHz
Channel Bandwidth:	LTE Band 41	Tx: 2555MHz –2655MHz
		Rx: 2555MHz –2655MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 38	5 MHz, 10MHz, 15MHz, 20MHz



	LTE Band 40	5 MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 5	-3.50dBi
	LTE Band 7	0.50dBi
	LTE Band 38	0.80dBi
	LTE Band 40	1.50dBi
	LTE Band 41	0.50dBi
Accessory Information:	Battery	
	Brand Name:	Beijing Speedata Technology Co.,Ltd.
	Model No.:	SH7548126
	Serial No.:	N/A
	Capacity:	7700mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Shenzhen SH Energy Technology Co.,Ltd
	AC Adapter	
	Brand Name:	Beijing Speedata Technology Co.,Ltd.
	Model No.:	GQ24-090200-AX
	Serial No.:	N/A
	Rated Output:	9.0V $\pm$ 2.0A
	Rated Input:	100-240V $\sim$ 50/60Hz, 1.0A
	Manufacturer:	Shenzhen Qijia Electronics Co.,Ltd

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

LTE Band 5		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10		0.063	0.047	0.037	8M95G7D	8M93W7D	8M95W7D
5		0.062	0.047	0.036	4M48G7D	4M48W7D	4M48W7D
3		0.062	0.046	0.036	2M69G7D	2M69W7D	2M71W7D
1.4		0.061	0.046	0.036	1M10G7D	1M10W7D	1M10W7D
LTE Band 7		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.157	0.123	0.102	17M9G7D	17M9W7D	17M9W7D
15		0.156	0.122	0.101	13M5G7D	13M4W7D	13M4W7D
10		0.154	0.120	0.100	8M94G7D	8M93W7D	8M94W7D
5		0.153	0.119	0.099	4M47G7D	4M47W7D	4M48W7D
LTE Band 38		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.176	0.133	0.107	17M9G7D	17M9W7D	17M9W7D
15		0.174	0.132	0.106	13M4G7D	13M4W7D	13M4W7D
10		0.173	0.131	0.105	8M95G7D	8M94W7D	8M94W7D
5		0.170	0.129	0.104	4M47G7D	4M47W7D	4M48W7D
LTE Band 40 Block A		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10		0.239	0.194	0.154	8M94G7D	8M93W7D	8M95W7D
5		0.233	0.192	0.156	4M49G7D	4M48W7D	4M49W7D
LTE Band 40 Block B		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10		0.243	0.195	0.155	8M94G7D	8M94W7D	8M94W7D
5		0.239	0.193	0.158	4M49G7D	4M48W7D	4M49W7D
LTE Band 41		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.163	0.120	0.101	17M9G7D	17M9W7D	17M9W7D
15		0.161	0.119	0.100	13M4G7D	13M4W7D	13M4W7D
10		0.160	0.118	0.099	8M94G7D	8M94W7D	8M94W7D
5		0.158	0.116	0.098	4M48G7D	4M47W7D	4M49W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 27.50(a)(3) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Sep. 27, 2024	Tan Xiaowei Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Jul. 31, 2024	Gan Jing	PASS	No deviation
2.1055 22.355 27.54	Frequency Stability	Sep. 27, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 27.53(a)(4) 27.53(m)(4)	Conducted Spurious Emissions	Jul. 31, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 27.53(a)(4) 27.53(m)(4)	Band Edge	Jul. 30, 2024	Gan Jing	PASS	No deviation
2.1053 22.917(a) 27.53(a)(4) 27.53(m)(4)	Radiated Spurious Emissions	Sep. 14&18, 2024	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method



determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

**2.1.4. Result****Conducted Output Power:**

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.58	23.63	23.62
10	QPSK	1	25	23.49	23.55	23.52
10	QPSK	1	49	23.44	23.53	23.50
10	QPSK	25	0	22.58	22.62	22.55
10	QPSK	25	12	22.45	22.48	22.41
10	QPSK	25	25	22.41	22.45	22.39
10	QPSK	50	0	22.40	22.44	22.38
10	16QAM	1	0	22.34	22.41	22.37
10	16QAM	1	25	22.33	22.38	22.34
10	16QAM	1	49	22.22	22.26	22.18
10	16QAM	25	0	21.41	21.47	21.42
10	16QAM	25	12	21.41	21.43	21.40
10	16QAM	25	25	21.37	21.41	21.37
10	16QAM	50	0	21.33	21.39	21.31
10	64QAM	1	0	21.24	21.33	21.32
10	64QAM	1	25	21.26	21.30	21.26
10	64QAM	1	49	21.23	21.25	21.19
10	64QAM	25	0	20.54	20.56	20.47
10	64QAM	25	12	20.51	20.53	20.43
10	64QAM	25	25	20.55	20.57	20.54
10	64QAM	50	0	20.45	20.55	20.51



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.52	23.57	23.56
5	QPSK	1	12	23.43	23.49	23.46
5	QPSK	1	24	23.38	23.47	23.44
5	QPSK	12	0	22.52	22.56	22.49
5	QPSK	12	7	22.39	22.42	22.35
5	QPSK	12	13	22.35	22.39	22.33
5	QPSK	25	0	22.34	22.38	22.32
5	16QAM	1	0	22.28	22.35	22.31
5	16QAM	1	12	22.27	22.32	22.28
5	16QAM	1	24	22.16	22.20	22.12
5	16QAM	12	0	21.35	21.41	21.36
5	16QAM	12	7	21.35	21.37	21.34
5	16QAM	12	13	21.31	21.35	21.31
5	16QAM	25	0	21.27	21.33	21.25
5	64QAM	1	0	21.18	21.27	21.26
5	64QAM	1	12	21.20	21.24	21.20
5	64QAM	1	24	21.17	21.19	21.13
5	64QAM	12	0	20.48	20.50	20.41
5	64QAM	12	7	20.45	20.47	20.37
5	64QAM	12	13	20.49	20.51	20.48
5	64QAM	25	0	20.39	20.49	20.45



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.49	23.54	23.53
3	QPSK	1	8	23.40	23.46	23.43
3	QPSK	1	14	23.35	23.44	23.41
3	QPSK	8	0	22.49	22.53	22.46
3	QPSK	8	4	22.36	22.39	22.32
3	QPSK	8	7	22.32	22.36	22.30
3	QPSK	15	0	22.31	22.35	22.29
3	16QAM	1	0	22.25	22.32	22.28
3	16QAM	1	8	22.24	22.29	22.25
3	16QAM	1	14	22.13	22.17	22.09
3	16QAM	8	0	21.32	21.38	21.33
3	16QAM	8	4	21.32	21.34	21.31
3	16QAM	8	7	21.28	21.32	21.28
3	16QAM	15	0	21.24	21.30	21.22
3	64QAM	1	0	21.15	21.24	21.23
3	64QAM	1	8	21.17	21.21	21.17
3	64QAM	1	14	21.14	21.16	21.10
3	64QAM	8	0	20.45	20.47	20.38
3	64QAM	8	4	20.42	20.44	20.34
3	64QAM	8	7	20.46	20.48	20.45
3	64QAM	15	0	20.36	20.46	20.42



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.47	23.52	23.51
1.4	QPSK	1	3	23.38	23.44	23.41
1.4	QPSK	1	5	23.33	23.42	23.39
1.4	QPSK	3	0	22.47	22.51	22.44
1.4	QPSK	3	1	22.34	22.37	22.30
1.4	QPSK	3	3	22.30	22.34	22.28
1.4	QPSK	6	0	22.29	22.33	22.27
1.4	16QAM	1	0	22.23	22.30	22.26
1.4	16QAM	1	3	22.22	22.27	22.23
1.4	16QAM	1	5	22.11	22.15	22.07
1.4	16QAM	3	0	21.30	21.36	21.31
1.4	16QAM	3	1	21.30	21.32	21.29
1.4	16QAM	3	3	21.26	21.30	21.26
1.4	16QAM	6	0	21.22	21.28	21.20
1.4	64QAM	1	0	21.13	21.22	21.21
1.4	64QAM	1	3	21.15	21.19	21.15
1.4	64QAM	1	5	21.12	21.14	21.08
1.4	64QAM	3	0	20.43	20.45	20.36
1.4	64QAM	3	1	20.40	20.42	20.32
1.4	64QAM	3	3	20.44	20.46	20.43
1.4	64QAM	6	0	20.34	20.44	20.40



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	21.41	21.47	21.41
20	QPSK	1	49	21.37	21.46	21.31
20	QPSK	1	99	21.19	21.45	21.31
20	QPSK	50	0	20.39	20.54	20.47
20	QPSK	50	24	20.51	20.52	20.48
20	QPSK	50	50	20.51	20.53	20.42
20	QPSK	100	0	20.41	20.51	20.41
20	16QAM	1	0	20.04	20.15	20.08
20	16QAM	1	49	20.39	20.38	20.38
20	16QAM	1	99	20.35	20.37	20.23
20	16QAM	50	0	19.53	19.51	19.48
20	16QAM	50	24	19.58	19.58	19.56
20	16QAM	50	50	19.49	19.48	19.50
20	16QAM	100	0	19.37	19.43	19.35
20	64QAM	1	0	19.42	19.48	19.42
20	64QAM	1	49	19.53	19.54	19.41
20	64QAM	1	99	19.55	19.58	19.57
20	64QAM	50	0	18.39	18.48	18.54
20	64QAM	50	24	18.45	18.55	18.51
20	64QAM	50	50	18.47	18.46	18.49
20	64QAM	100	0	18.44	18.55	18.48



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	21.37	21.43	21.37
15	QPSK	1	37	21.33	21.42	21.27
15	QPSK	1	74	21.15	21.41	21.27
15	QPSK	36	0	20.35	20.47	20.43
15	QPSK	36	20	20.47	20.48	20.44
15	QPSK	36	39	20.47	20.49	20.38
15	QPSK	75	0	20.37	20.47	20.37
15	16QAM	1	0	20.00	20.11	20.04
15	16QAM	1	37	20.35	20.34	20.34
15	16QAM	1	74	20.31	20.33	20.19
15	16QAM	36	0	19.49	19.47	19.44
15	16QAM	36	20	19.54	19.54	19.52
15	16QAM	36	39	19.45	19.44	19.46
15	16QAM	75	0	19.33	19.39	19.31
15	64QAM	1	0	19.38	19.44	19.38
15	64QAM	1	37	19.49	19.50	19.37
15	64QAM	1	74	19.51	19.54	19.53
15	64QAM	36	0	18.35	18.44	18.50
15	64QAM	36	20	18.41	18.51	18.47
15	64QAM	36	39	18.43	18.42	18.45
15	64QAM	75	0	18.40	18.51	18.44



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	21.32	21.38	21.32
10	QPSK	1	25	21.28	21.37	21.22
10	QPSK	1	49	21.10	21.36	21.22
10	QPSK	25	0	20.30	20.42	20.38
10	QPSK	25	12	20.42	20.43	20.39
10	QPSK	25	25	20.42	20.44	20.33
10	QPSK	50	0	20.32	20.42	20.32
10	16QAM	1	0	19.95	20.06	19.99
10	16QAM	1	25	20.30	20.29	20.29
10	16QAM	1	49	20.26	20.28	20.14
10	16QAM	25	0	19.44	19.42	19.39
10	16QAM	25	12	19.49	19.49	19.47
10	16QAM	25	25	19.40	19.39	19.41
10	16QAM	50	0	19.28	19.34	19.26
10	64QAM	1	0	19.33	19.39	19.33
10	64QAM	1	25	19.44	19.45	19.32
10	64QAM	1	49	19.46	19.49	19.48
10	64QAM	25	0	18.30	18.39	18.45
10	64QAM	25	12	18.36	18.46	18.42
10	64QAM	25	25	18.38	18.37	18.40
10	64QAM	50	0	18.35	18.46	18.39



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	21.29	21.35	21.29
5	QPSK	1	12	21.25	21.34	21.19
5	QPSK	1	24	21.07	21.33	21.19
5	QPSK	12	0	20.27	20.39	20.35
5	QPSK	12	7	20.39	20.40	20.36
5	QPSK	12	13	20.39	20.41	20.30
5	QPSK	25	0	20.29	20.39	20.29
5	16QAM	1	0	19.92	20.03	19.96
5	16QAM	1	12	20.27	20.26	20.26
5	16QAM	1	24	20.23	20.25	20.11
5	16QAM	12	0	19.41	19.39	19.36
5	16QAM	12	7	19.46	19.46	19.44
5	16QAM	12	13	19.37	19.36	19.38
5	16QAM	25	0	19.25	19.31	19.23
5	64QAM	1	0	19.30	19.36	19.30
5	64QAM	1	12	19.41	19.42	19.29
5	64QAM	1	24	19.43	19.46	19.45
5	64QAM	12	0	18.27	18.36	18.42
5	64QAM	12	7	18.33	18.43	18.39
5	64QAM	12	13	18.35	18.34	18.37
5	64QAM	25	0	18.32	18.43	18.36



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	21.55	21.66	21.63
20	QPSK	1	49	21.53	21.54	21.45
20	QPSK	1	99	21.51	21.60	21.58
20	QPSK	50	0	20.65	20.72	20.69
20	QPSK	50	24	20.41	20.48	20.38
20	QPSK	50	50	20.46	20.50	20.41
20	QPSK	100	0	20.48	20.49	20.47
20	16QAM	1	0	20.44	20.45	20.36
20	16QAM	1	49	20.38	20.40	20.38
20	16QAM	1	99	20.34	20.38	20.31
20	16QAM	50	0	19.72	19.76	19.67
20	16QAM	50	24	19.69	19.70	19.60
20	16QAM	50	50	19.64	19.74	19.73
20	16QAM	100	0	19.61	19.66	19.57
20	64QAM	1	0	19.50	19.51	19.41
20	64QAM	1	49	19.45	19.50	19.41
20	64QAM	1	99	19.39	19.47	19.44
20	64QAM	50	0	18.80	18.82	18.80
20	64QAM	50	24	18.73	18.80	18.73
20	64QAM	50	50	18.74	18.77	18.70
20	64QAM	100	0	18.70	18.79	18.73



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	21.50	21.61	21.58
15	QPSK	1	37	21.48	21.49	21.40
15	QPSK	1	74	21.46	21.55	21.53
15	QPSK	36	0	20.60	20.67	20.64
15	QPSK	36	20	20.36	20.43	20.33
15	QPSK	36	39	20.41	20.45	20.36
15	QPSK	75	0	20.43	20.44	20.42
15	16QAM	1	0	20.39	20.40	20.31
15	16QAM	1	37	20.33	20.35	20.33
15	16QAM	1	74	20.29	20.33	20.26
15	16QAM	36	0	19.67	19.71	19.62
15	16QAM	36	20	19.64	19.65	19.55
15	16QAM	36	39	19.59	19.69	19.68
15	16QAM	75	0	19.56	19.61	19.52
15	64QAM	1	0	19.45	19.46	19.36
15	64QAM	1	37	19.40	19.45	19.36
15	64QAM	1	74	19.34	19.42	19.39
15	64QAM	36	0	18.75	18.77	18.75
15	64QAM	36	20	18.68	18.75	18.68
15	64QAM	36	39	18.69	18.72	18.65
15	64QAM	75	0	18.65	18.74	18.68



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	21.46	21.57	21.54
10	QPSK	1	25	21.44	21.45	21.36
10	QPSK	1	49	21.42	21.51	21.49
10	QPSK	25	0	20.56	20.63	20.60
10	QPSK	25	12	20.32	20.39	20.29
10	QPSK	25	25	20.37	20.41	20.32
10	QPSK	50	0	20.39	20.40	20.38
10	16QAM	1	0	20.35	20.36	20.27
10	16QAM	1	25	20.29	20.31	20.29
10	16QAM	1	49	20.25	20.29	20.22
10	16QAM	25	0	19.63	19.67	19.58
10	16QAM	25	12	19.60	19.61	19.51
10	16QAM	25	25	19.55	19.65	19.64
10	16QAM	50	0	19.52	19.57	19.48
10	64QAM	1	0	19.41	19.42	19.32
10	64QAM	1	25	19.36	19.41	19.32
10	64QAM	1	49	19.30	19.38	19.35
10	64QAM	25	0	18.71	18.73	18.71
10	64QAM	25	12	18.64	18.71	18.64
10	64QAM	25	25	18.65	18.68	18.61
10	64QAM	50	0	18.61	18.70	18.64



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	21.40	21.51	21.48
5	QPSK	1	12	21.38	21.39	21.30
5	QPSK	1	24	21.36	21.45	21.43
5	QPSK	12	0	20.50	20.57	20.54
5	QPSK	12	7	20.26	20.33	20.23
5	QPSK	12	13	20.31	20.35	20.26
5	QPSK	25	0	20.33	20.34	20.32
5	16QAM	1	0	20.29	20.30	20.21
5	16QAM	1	12	20.23	20.25	20.23
5	16QAM	1	24	20.19	20.23	20.16
5	16QAM	12	0	19.57	19.61	19.52
5	16QAM	12	7	19.54	19.55	19.45
5	16QAM	12	13	19.49	19.59	19.58
5	16QAM	25	0	19.46	19.51	19.42
5	64QAM	1	0	19.35	19.36	19.26
5	64QAM	1	12	19.30	19.35	19.26
5	64QAM	1	24	19.24	19.32	19.29
5	64QAM	12	0	18.65	18.67	18.65
5	64QAM	12	7	18.58	18.65	18.58
5	64QAM	12	13	18.59	18.62	18.55
5	64QAM	25	0	18.55	18.64	18.58



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.28	/
10	QPSK	1	25	/	22.24	/
10	QPSK	1	49	/	22.19	/
10	QPSK	25	0	/	21.41	/
10	QPSK	25	12	/	21.29	/
10	QPSK	25	25	/	21.33	/
10	QPSK	50	0	/	21.35	/
10	16QAM	1	0	/	21.38	/
10	16QAM	1	25	/	21.34	/
10	16QAM	1	49	/	21.31	/
10	16QAM	25	0	/	20.43	/
10	16QAM	25	12	/	20.39	/
10	16QAM	25	25	/	20.30	/
10	16QAM	50	0	/	20.36	/
10	64QAM	1	0	/	20.37	/
10	64QAM	1	25	/	20.34	/
10	64QAM	1	49	/	20.28	/
10	64QAM	25	0	/	19.42	/
10	64QAM	25	12	/	19.33	/
10	64QAM	25	25	/	19.35	/
10	64QAM	50	0	/	19.22	/



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.14	22.17	22.10
5	QPSK	1	12	22.09	22.15	22.06
5	QPSK	1	24	21.99	22.11	22.12
5	QPSK	12	0	21.28	21.39	21.29
5	QPSK	12	7	21.27	21.24	21.11
5	QPSK	12	13	21.11	21.35	21.13
5	QPSK	25	0	21.32	21.40	21.19
5	16QAM	1	0	21.34	21.32	21.22
5	16QAM	1	12	21.11	21.08	21.23
5	16QAM	1	24	21.16	21.17	21.01
5	16QAM	12	0	20.26	20.38	20.35
5	16QAM	12	7	20.09	20.19	20.12
5	16QAM	12	13	20.12	20.36	20.07
5	16QAM	25	0	20.25	20.29	20.26
5	64QAM	1	0	20.27	20.43	20.26
5	64QAM	1	12	20.37	20.20	20.20
5	64QAM	1	24	20.16	20.21	20.30
5	64QAM	12	0	19.17	19.34	19.39
5	64QAM	12	7	19.31	19.32	19.30
5	64QAM	12	13	19.29	19.33	19.37
5	64QAM	25	0	19.09	19.20	19.19



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.36	/
10	QPSK	1	25	/	22.32	/
10	QPSK	1	49	/	22.23	/
10	QPSK	25	0	/	21.47	/
10	QPSK	25	12	/	21.33	/
10	QPSK	25	25	/	21.38	/
10	QPSK	50	0	/	21.30	/
10	16QAM	1	0	/	21.39	/
10	16QAM	1	25	/	21.38	/
10	16QAM	1	49	/	21.29	/
10	16QAM	25	0	/	20.35	/
10	16QAM	25	12	/	20.46	/
10	16QAM	25	25	/	20.32	/
10	16QAM	50	0	/	20.39	/
10	64QAM	1	0	/	20.41	/
10	64QAM	1	25	/	20.37	/
10	64QAM	1	49	/	20.30	/
10	64QAM	25	0	/	19.49	/
10	64QAM	25	12	/	19.45	/
10	64QAM	25	25	/	19.36	/
10	64QAM	50	0	/	19.41	/



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.25	22.28	22.23
5	QPSK	1	12	22.09	22.26	22.12
5	QPSK	1	24	22.17	22.15	21.99
5	QPSK	12	0	21.36	21.46	21.43
5	QPSK	12	7	21.20	21.46	21.23
5	QPSK	12	13	21.26	21.24	21.18
5	QPSK	25	0	21.20	21.34	21.21
5	16QAM	1	0	21.36	21.33	21.31
5	16QAM	1	12	21.21	21.34	21.32
5	16QAM	1	24	21.17	21.18	21.21
5	16QAM	12	0	20.32	20.37	20.36
5	16QAM	12	7	20.36	20.23	20.23
5	16QAM	12	13	20.30	20.21	20.38
5	16QAM	25	0	20.25	20.38	20.19
5	64QAM	1	0	20.34	20.48	20.26
5	64QAM	1	12	20.27	20.41	20.27
5	64QAM	1	24	20.26	20.31	20.24
5	64QAM	12	0	19.25	19.29	19.37
5	64QAM	12	7	19.21	19.39	19.33
5	64QAM	12	13	19.28	19.18	19.18
5	64QAM	25	0	19.11	19.24	19.23



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40340	40740	41140
Frequency (MHz)				2565	2605	2645
20	QPSK	1	0	21.53	21.62	21.56
20	QPSK	1	49	21.33	21.51	21.51
20	QPSK	1	99	21.31	21.49	21.38
20	QPSK	50	0	20.41	20.67	20.46
20	QPSK	50	24	20.39	20.51	20.38
20	QPSK	50	50	20.38	20.48	20.33
20	QPSK	100	0	20.35	20.47	20.31
20	16QAM	1	0	20.17	20.22	20.29
20	16QAM	1	49	20.14	20.20	20.21
20	16QAM	1	99	20.10	20.13	20.09
20	16QAM	50	0	19.46	19.60	19.50
20	16QAM	50	24	19.44	19.57	19.45
20	16QAM	50	50	19.43	19.54	19.49
20	16QAM	100	0	19.42	19.44	19.46
20	64QAM	1	0	19.18	19.54	19.42
20	64QAM	1	49	19.13	19.55	19.39
20	64QAM	1	99	19.10	19.25	19.24
20	64QAM	50	0	18.52	18.49	18.63
20	64QAM	50	24	18.49	18.69	18.54
20	64QAM	50	50	18.50	18.72	18.52
20	64QAM	100	0	18.39	18.65	18.49



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40315	40740	41165
Frequency (MHz)				2562.5	2605	2647.5
15	QPSK	1	0	21.48	21.57	21.51
15	QPSK	1	37	21.28	21.46	21.46
15	QPSK	1	74	21.26	21.44	21.33
15	QPSK	36	0	20.36	20.47	20.41
15	QPSK	36	20	20.34	20.46	20.33
15	QPSK	36	39	20.33	20.43	20.28
15	QPSK	75	0	20.30	20.42	20.26
15	16QAM	1	0	20.12	20.17	20.24
15	16QAM	1	37	20.09	20.15	20.16
15	16QAM	1	74	20.05	20.08	20.04
15	16QAM	36	0	19.41	19.55	19.45
15	16QAM	36	20	19.39	19.52	19.40
15	16QAM	36	39	19.38	19.49	19.44
15	16QAM	75	0	19.37	19.39	19.41
15	64QAM	1	0	19.13	19.49	19.37
15	64QAM	1	37	19.08	19.50	19.34
15	64QAM	1	74	19.05	19.20	19.19
15	64QAM	36	0	18.47	18.44	18.58
15	64QAM	36	20	18.44	18.64	18.49
15	64QAM	36	39	18.45	18.67	18.47
15	64QAM	75	0	18.34	18.60	18.44



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40290	40740	41190
Frequency (MHz)				2560	2605	2650
10	QPSK	1	0	21.45	21.54	21.48
10	QPSK	1	25	21.25	21.43	21.43
10	QPSK	1	49	21.23	21.41	21.30
10	QPSK	25	0	20.33	20.44	20.38
10	QPSK	25	12	20.31	20.43	20.30
10	QPSK	25	25	20.30	20.40	20.25
10	QPSK	50	0	20.27	20.39	20.23
10	16QAM	1	0	20.09	20.14	20.21
10	16QAM	1	25	20.06	20.12	20.13
10	16QAM	1	49	20.02	20.05	20.01
10	16QAM	25	0	19.38	19.52	19.42
10	16QAM	25	12	19.36	19.49	19.37
10	16QAM	25	25	19.35	19.46	19.41
10	16QAM	50	0	19.34	19.36	19.38
10	64QAM	1	0	19.10	19.46	19.34
10	64QAM	1	25	19.05	19.47	19.31
10	64QAM	1	49	19.02	19.17	19.16
10	64QAM	25	0	18.44	18.41	18.55
10	64QAM	25	12	18.41	18.61	18.46
10	64QAM	25	25	18.42	18.64	18.44
10	64QAM	50	0	18.31	18.57	18.41



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				40265	40740	41215
Frequency (MHz)				2557.5	2605	2652.5
5	QPSK	1	0	21.40	21.49	21.43
5	QPSK	1	12	21.20	21.38	21.38
5	QPSK	1	24	21.18	21.36	21.25
5	QPSK	12	0	20.28	20.39	20.33
5	QPSK	12	7	20.26	20.38	20.25
5	QPSK	12	13	20.25	20.35	20.20
5	QPSK	25	0	20.22	20.34	20.18
5	16QAM	1	0	20.04	20.09	20.16
5	16QAM	1	12	20.01	20.07	20.08
5	16QAM	1	24	19.97	20.00	19.96
5	16QAM	12	0	19.33	19.47	19.37
5	16QAM	12	7	19.31	19.44	19.32
5	16QAM	12	13	19.30	19.41	19.36
5	16QAM	25	0	19.29	19.31	19.33
5	64QAM	1	0	19.05	19.41	19.29
5	64QAM	1	12	19.00	19.42	19.26
5	64QAM	1	24	18.97	19.12	19.11
5	64QAM	12	0	18.39	18.36	18.50
5	64QAM	12	7	18.36	18.56	18.41
5	64QAM	12	13	18.37	18.59	18.39
5	64QAM	25	0	18.26	18.52	18.36

**Effective Radiated Power and Effective Isotropic Radiated Power**

LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	17.93	0.062	17.98	0.063	17.97	0.063
10	QPSK	1	25	17.84	0.061	17.90	0.062	17.87	0.061
10	QPSK	1	49	17.79	0.060	17.88	0.061	17.85	0.061
10	QPSK	25	0	16.93	0.049	16.97	0.050	16.90	0.049
10	QPSK	25	12	16.80	0.048	16.83	0.048	16.76	0.047
10	QPSK	25	25	16.76	0.047	16.80	0.048	16.74	0.047
10	QPSK	50	0	16.75	0.047	16.79	0.048	16.73	0.047
10	16QAM	1	0	16.69	0.047	16.76	0.047	16.72	0.047
10	16QAM	1	25	16.68	0.047	16.73	0.047	16.69	0.047
10	16QAM	1	49	16.57	0.045	16.61	0.046	16.53	0.045
10	16QAM	25	0	15.76	0.038	15.82	0.038	15.77	0.038
10	16QAM	25	12	15.76	0.038	15.78	0.038	15.75	0.038
10	16QAM	25	25	15.72	0.037	15.76	0.038	15.72	0.037
10	16QAM	50	0	15.68	0.037	15.74	0.037	15.66	0.037
10	64QAM	1	0	15.59	0.036	15.68	0.037	15.67	0.037
10	64QAM	1	25	15.61	0.036	15.65	0.037	15.61	0.036
10	64QAM	1	49	15.58	0.036	15.60	0.036	15.54	0.036
10	64QAM	25	0	14.89	0.031	14.91	0.031	14.82	0.030
10	64QAM	25	12	14.86	0.031	14.88	0.031	14.78	0.030
10	64QAM	25	25	14.90	0.031	14.92	0.031	14.89	0.031
10	64QAM	50	0	14.80	0.030	14.90	0.031	14.86	0.031



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.87	0.061	17.92	0.062	17.91	0.062
5	QPSK	1	12	17.78	0.060	17.84	0.061	17.81	0.060
5	QPSK	1	24	17.73	0.059	17.82	0.061	17.79	0.060
5	QPSK	12	0	16.87	0.049	16.91	0.049	16.84	0.048
5	QPSK	12	7	16.74	0.047	16.77	0.048	16.70	0.047
5	QPSK	12	13	16.70	0.047	16.74	0.047	16.68	0.047
5	QPSK	25	0	16.69	0.047	16.73	0.047	16.67	0.046
5	16QAM	1	0	16.63	0.046	16.70	0.047	16.66	0.046
5	16QAM	1	12	16.62	0.046	16.67	0.046	16.63	0.046
5	16QAM	1	24	16.51	0.045	16.55	0.045	16.47	0.044
5	16QAM	12	0	15.70	0.037	15.76	0.038	15.71	0.037
5	16QAM	12	7	15.70	0.037	15.72	0.037	15.69	0.037
5	16QAM	12	13	15.66	0.037	15.70	0.037	15.66	0.037
5	16QAM	25	0	15.62	0.036	15.68	0.037	15.60	0.036
5	64QAM	1	0	15.53	0.036	15.62	0.036	15.61	0.036
5	64QAM	1	12	15.55	0.036	15.59	0.036	15.55	0.036
5	64QAM	1	24	15.52	0.036	15.54	0.036	15.48	0.035
5	64QAM	12	0	14.83	0.030	14.85	0.031	14.76	0.030
5	64QAM	12	7	14.80	0.030	14.82	0.030	14.72	0.030
5	64QAM	12	13	14.84	0.030	14.86	0.031	14.83	0.030
5	64QAM	25	0	14.74	0.030	14.84	0.030	14.80	0.030



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	17.84	0.061	17.89	0.062	17.88	0.061
3	QPSK	1	8	17.75	0.060	17.81	0.060	17.78	0.060
3	QPSK	1	14	17.70	0.059	17.79	0.060	17.76	0.060
3	QPSK	8	0	16.84	0.048	16.88	0.049	16.81	0.048
3	QPSK	8	4	16.71	0.047	16.74	0.047	16.67	0.046
3	QPSK	8	7	16.67	0.046	16.71	0.047	16.65	0.046
3	QPSK	15	0	16.66	0.046	16.70	0.047	16.64	0.046
3	16QAM	1	0	16.60	0.046	16.67	0.046	16.63	0.046
3	16QAM	1	8	16.59	0.046	16.64	0.046	16.60	0.046
3	16QAM	1	14	16.48	0.044	16.52	0.045	16.44	0.044
3	16QAM	8	0	15.67	0.037	15.73	0.037	15.68	0.037
3	16QAM	8	4	15.67	0.037	15.69	0.037	15.66	0.037
3	16QAM	8	7	15.63	0.037	15.67	0.037	15.63	0.037
3	16QAM	15	0	15.59	0.036	15.65	0.037	15.57	0.036
3	64QAM	1	0	15.50	0.035	15.59	0.036	15.58	0.036
3	64QAM	1	8	15.52	0.036	15.56	0.036	15.52	0.036
3	64QAM	1	14	15.49	0.035	15.51	0.036	15.45	0.035
3	64QAM	8	0	14.80	0.030	14.82	0.030	14.73	0.030
3	64QAM	8	4	14.77	0.030	14.79	0.030	14.69	0.029
3	64QAM	8	7	14.81	0.030	14.83	0.030	14.80	0.030
3	64QAM	15	0	14.71	0.030	14.81	0.030	14.77	0.030



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	17.82	0.061	17.87	0.061	17.86	0.061
1.4	QPSK	1	3	17.73	0.059	17.79	0.060	17.76	0.060
1.4	QPSK	1	5	17.68	0.059	17.77	0.060	17.74	0.059
1.4	QPSK	3	0	16.82	0.048	16.86	0.049	16.79	0.048
1.4	QPSK	3	1	16.69	0.047	16.72	0.047	16.65	0.046
1.4	QPSK	3	3	16.65	0.046	16.69	0.047	16.63	0.046
1.4	QPSK	6	0	16.64	0.046	16.68	0.047	16.62	0.046
1.4	16QAM	1	0	16.58	0.045	16.65	0.046	16.61	0.046
1.4	16QAM	1	3	16.57	0.045	16.62	0.046	16.58	0.045
1.4	16QAM	1	5	16.46	0.044	16.50	0.045	16.42	0.044
1.4	16QAM	3	0	15.65	0.037	15.71	0.037	15.66	0.037
1.4	16QAM	3	1	15.65	0.037	15.67	0.037	15.64	0.037
1.4	16QAM	3	3	15.61	0.036	15.65	0.037	15.61	0.036
1.4	16QAM	6	0	15.57	0.036	15.63	0.037	15.55	0.036
1.4	64QAM	1	0	15.48	0.035	15.57	0.036	15.56	0.036
1.4	64QAM	1	3	15.50	0.035	15.54	0.036	15.50	0.035
1.4	64QAM	1	5	15.47	0.035	15.49	0.035	15.43	0.035
1.4	64QAM	3	0	14.78	0.030	14.80	0.030	14.71	0.030
1.4	64QAM	3	1	14.75	0.030	14.77	0.030	14.67	0.029
1.4	64QAM	3	3	14.79	0.030	14.81	0.030	14.78	0.030
1.4	64QAM	6	0	14.69	0.029	14.79	0.030	14.75	0.030



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	21.91	0.155	21.97	0.157	21.91	0.155
20	QPSK	1	49	21.87	0.154	21.96	0.157	21.81	0.152
20	QPSK	1	99	21.69	0.148	21.95	0.157	21.81	0.152
20	QPSK	50	0	20.89	0.123	21.04	0.127	20.97	0.125
20	QPSK	50	24	21.01	0.126	21.02	0.126	20.98	0.125
20	QPSK	50	50	21.01	0.126	21.03	0.127	20.92	0.124
20	QPSK	100	0	20.91	0.123	21.01	0.126	20.91	0.123
20	16QAM	1	0	20.54	0.113	20.65	0.116	20.58	0.114
20	16QAM	1	49	20.89	0.123	20.88	0.122	20.88	0.122
20	16QAM	1	99	20.85	0.122	20.87	0.122	20.73	0.118
20	16QAM	50	0	20.03	0.101	20.01	0.100	19.98	0.100
20	16QAM	50	24	20.08	0.102	20.08	0.102	20.06	0.101
20	16QAM	50	50	19.99	0.100	19.98	0.100	20.00	0.100
20	16QAM	100	0	19.87	0.097	19.93	0.098	19.85	0.097
20	64QAM	1	0	19.92	0.098	19.98	0.100	19.92	0.098
20	64QAM	1	49	20.03	0.101	20.04	0.101	19.91	0.098
20	64QAM	1	99	20.05	0.101	20.08	0.102	20.07	0.102
20	64QAM	50	0	18.89	0.077	18.98	0.079	19.04	0.080
20	64QAM	50	24	18.95	0.079	19.05	0.080	19.01	0.080
20	64QAM	50	50	18.97	0.079	18.96	0.079	18.99	0.079
20	64QAM	100	0	18.94	0.078	19.05	0.080	18.98	0.079



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.87	0.154	21.93	0.156	21.87	0.154
15	QPSK	1	37	21.83	0.152	21.92	0.156	21.77	0.150
15	QPSK	1	74	21.65	0.146	21.91	0.155	21.77	0.150
15	QPSK	36	0	20.85	0.122	20.97	0.125	20.93	0.124
15	QPSK	36	20	20.97	0.125	20.98	0.125	20.94	0.124
15	QPSK	36	39	20.97	0.125	20.99	0.126	20.88	0.122
15	QPSK	75	0	20.87	0.122	20.97	0.125	20.87	0.122
15	16QAM	1	0	20.50	0.112	20.61	0.115	20.54	0.113
15	16QAM	1	37	20.85	0.122	20.84	0.121	20.84	0.121
15	16QAM	1	74	20.81	0.121	20.83	0.121	20.69	0.117
15	16QAM	36	0	19.99	0.100	19.97	0.099	19.94	0.099
15	16QAM	36	20	20.04	0.101	20.04	0.101	20.02	0.100
15	16QAM	36	39	19.95	0.099	19.94	0.099	19.96	0.099
15	16QAM	75	0	19.83	0.096	19.89	0.097	19.81	0.096
15	64QAM	1	0	19.88	0.097	19.94	0.099	19.88	0.097
15	64QAM	1	37	19.99	0.100	20.00	0.100	19.87	0.097
15	64QAM	1	74	20.01	0.100	20.04	0.101	20.03	0.101
15	64QAM	36	0	18.85	0.077	18.94	0.078	19.00	0.079
15	64QAM	36	20	18.91	0.078	19.01	0.080	18.97	0.079
15	64QAM	36	39	18.93	0.078	18.92	0.078	18.95	0.079
15	64QAM	75	0	18.90	0.078	19.01	0.080	18.94	0.078



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.82	0.152	21.88	0.154	21.82	0.152
10	QPSK	1	25	21.78	0.151	21.87	0.154	21.72	0.149
10	QPSK	1	49	21.60	0.145	21.86	0.153	21.72	0.149
10	QPSK	25	0	20.80	0.120	20.92	0.124	20.88	0.122
10	QPSK	25	12	20.92	0.124	20.93	0.124	20.89	0.123
10	QPSK	25	25	20.92	0.124	20.94	0.124	20.83	0.121
10	QPSK	50	0	20.82	0.121	20.92	0.124	20.82	0.121
10	16QAM	1	0	20.45	0.111	20.56	0.114	20.49	0.112
10	16QAM	1	25	20.80	0.120	20.79	0.120	20.79	0.120
10	16QAM	1	49	20.76	0.119	20.78	0.120	20.64	0.116
10	16QAM	25	0	19.94	0.099	19.92	0.098	19.89	0.097
10	16QAM	25	12	19.99	0.100	19.99	0.100	19.97	0.099
10	16QAM	25	25	19.90	0.098	19.89	0.097	19.91	0.098
10	16QAM	50	0	19.78	0.095	19.84	0.096	19.76	0.095
10	64QAM	1	0	19.83	0.096	19.89	0.097	19.83	0.096
10	64QAM	1	25	19.94	0.099	19.95	0.099	19.82	0.096
10	64QAM	1	49	19.96	0.099	19.99	0.100	19.98	0.100
10	64QAM	25	0	18.80	0.076	18.89	0.077	18.95	0.079
10	64QAM	25	12	18.86	0.077	18.96	0.079	18.92	0.078
10	64QAM	25	25	18.88	0.077	18.87	0.077	18.90	0.078
10	64QAM	50	0	18.85	0.077	18.96	0.079	18.89	0.077



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.79	0.151	21.85	0.153	21.79	0.151
5	QPSK	1	12	21.75	0.150	21.84	0.153	21.69	0.148
5	QPSK	1	24	21.57	0.144	21.83	0.152	21.69	0.148
5	QPSK	12	0	20.77	0.119	20.89	0.123	20.85	0.122
5	QPSK	12	7	20.89	0.123	20.90	0.123	20.86	0.122
5	QPSK	12	13	20.89	0.123	20.91	0.123	20.80	0.120
5	QPSK	25	0	20.79	0.120	20.89	0.123	20.79	0.120
5	16QAM	1	0	20.42	0.110	20.53	0.113	20.46	0.111
5	16QAM	1	12	20.77	0.119	20.76	0.119	20.76	0.119
5	16QAM	1	24	20.73	0.118	20.75	0.119	20.61	0.115
5	16QAM	12	0	19.91	0.098	19.89	0.097	19.86	0.097
5	16QAM	12	7	19.96	0.099	19.96	0.099	19.94	0.099
5	16QAM	12	13	19.87	0.097	19.86	0.097	19.88	0.097
5	16QAM	25	0	19.75	0.094	19.81	0.096	19.73	0.094
5	64QAM	1	0	19.80	0.095	19.86	0.097	19.80	0.095
5	64QAM	1	12	19.91	0.098	19.92	0.098	19.79	0.095
5	64QAM	1	24	19.93	0.098	19.96	0.099	19.95	0.099
5	64QAM	12	0	18.77	0.075	18.86	0.077	18.92	0.078
5	64QAM	12	7	18.83	0.076	18.93	0.078	18.89	0.077
5	64QAM	12	13	18.85	0.077	18.84	0.077	18.87	0.077
5	64QAM	25	0	18.82	0.076	18.93	0.078	18.86	0.077



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.35	0.172	22.46	0.176	22.43	0.175
20	QPSK	1	49	22.33	0.171	22.34	0.171	22.25	0.168
20	QPSK	1	99	22.31	0.170	22.40	0.174	22.38	0.173
20	QPSK	50	0	21.45	0.140	21.52	0.142	21.49	0.141
20	QPSK	50	24	21.21	0.132	21.28	0.134	21.18	0.131
20	QPSK	50	50	21.26	0.134	21.30	0.135	21.21	0.132
20	QPSK	100	0	21.28	0.134	21.29	0.135	21.27	0.134
20	16QAM	1	0	21.24	0.133	21.25	0.133	21.16	0.131
20	16QAM	1	49	21.18	0.131	21.20	0.132	21.18	0.131
20	16QAM	1	99	21.14	0.130	21.18	0.131	21.11	0.129
20	16QAM	50	0	20.52	0.113	20.56	0.114	20.47	0.111
20	16QAM	50	24	20.49	0.112	20.50	0.112	20.40	0.110
20	16QAM	50	50	20.44	0.111	20.54	0.113	20.53	0.113
20	16QAM	100	0	20.41	0.110	20.46	0.111	20.37	0.109
20	64QAM	1	0	20.30	0.107	20.31	0.107	20.21	0.105
20	64QAM	1	49	20.25	0.106	20.30	0.107	20.21	0.105
20	64QAM	1	99	20.19	0.104	20.27	0.106	20.24	0.106
20	64QAM	50	0	19.60	0.091	19.62	0.092	19.60	0.091
20	64QAM	50	24	19.53	0.090	19.60	0.091	19.53	0.090
20	64QAM	50	50	19.54	0.090	19.57	0.091	19.50	0.089
20	64QAM	100	0	19.50	0.089	19.59	0.091	19.53	0.090



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	22.30	0.170	22.41	0.174	22.38	0.173
15	QPSK	1	37	22.28	0.169	22.29	0.169	22.20	0.166
15	QPSK	1	74	22.26	0.168	22.35	0.172	22.33	0.171
15	QPSK	36	0	21.40	0.138	21.47	0.140	21.44	0.139
15	QPSK	36	20	21.16	0.131	21.23	0.133	21.13	0.130
15	QPSK	36	39	21.21	0.132	21.25	0.133	21.16	0.131
15	QPSK	75	0	21.23	0.133	21.24	0.133	21.22	0.132
15	16QAM	1	0	21.19	0.132	21.20	0.132	21.11	0.129
15	16QAM	1	37	21.13	0.130	21.15	0.130	21.13	0.130
15	16QAM	1	74	21.09	0.129	21.13	0.130	21.06	0.128
15	16QAM	36	0	20.47	0.111	20.51	0.112	20.42	0.110
15	16QAM	36	20	20.44	0.111	20.45	0.111	20.35	0.108
15	16QAM	36	39	20.39	0.109	20.49	0.112	20.48	0.112
15	16QAM	75	0	20.36	0.109	20.41	0.110	20.32	0.108
15	64QAM	1	0	20.25	0.106	20.26	0.106	20.16	0.104
15	64QAM	1	37	20.20	0.105	20.25	0.106	20.16	0.104
15	64QAM	1	74	20.14	0.103	20.22	0.105	20.19	0.104
15	64QAM	36	0	19.55	0.090	19.57	0.091	19.55	0.090
15	64QAM	36	20	19.48	0.089	19.55	0.090	19.48	0.089
15	64QAM	36	39	19.49	0.089	19.52	0.090	19.45	0.088
15	64QAM	75	0	19.45	0.088	19.54	0.090	19.48	0.089



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.26	0.168	22.37	0.173	22.34	0.171
10	QPSK	1	25	22.24	0.167	22.25	0.168	22.16	0.164
10	QPSK	1	49	22.22	0.167	22.31	0.170	22.29	0.169
10	QPSK	25	0	21.36	0.137	21.43	0.139	21.40	0.138
10	QPSK	25	12	21.12	0.129	21.19	0.132	21.09	0.129
10	QPSK	25	25	21.17	0.131	21.21	0.132	21.12	0.129
10	QPSK	50	0	21.19	0.132	21.20	0.132	21.18	0.131
10	16QAM	1	0	21.15	0.130	21.16	0.131	21.07	0.128
10	16QAM	1	25	21.09	0.129	21.11	0.129	21.09	0.129
10	16QAM	1	49	21.05	0.127	21.09	0.129	21.02	0.126
10	16QAM	25	0	20.43	0.110	20.47	0.111	20.38	0.109
10	16QAM	25	12	20.40	0.110	20.41	0.110	20.31	0.107
10	16QAM	25	25	20.35	0.108	20.45	0.111	20.44	0.111
10	16QAM	50	0	20.32	0.108	20.37	0.109	20.28	0.107
10	64QAM	1	0	20.21	0.105	20.22	0.105	20.12	0.103
10	64QAM	1	25	20.16	0.104	20.21	0.105	20.12	0.103
10	64QAM	1	49	20.10	0.102	20.18	0.104	20.15	0.104
10	64QAM	25	0	19.51	0.089	19.53	0.090	19.51	0.089
10	64QAM	25	12	19.44	0.088	19.51	0.089	19.44	0.088
10	64QAM	25	25	19.45	0.088	19.48	0.089	19.41	0.087
10	64QAM	50	0	19.41	0.087	19.50	0.089	19.44	0.088



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.20	0.166	22.31	0.170	22.28	0.169
5	QPSK	1	12	22.18	0.165	22.19	0.166	22.10	0.162
5	QPSK	1	24	22.16	0.164	22.25	0.168	22.23	0.167
5	QPSK	12	0	21.30	0.135	21.37	0.137	21.34	0.136
5	QPSK	12	7	21.06	0.128	21.13	0.130	21.03	0.127
5	QPSK	12	13	21.11	0.129	21.15	0.130	21.06	0.128
5	QPSK	25	0	21.13	0.130	21.14	0.130	21.12	0.129
5	16QAM	1	0	21.09	0.129	21.10	0.129	21.01	0.126
5	16QAM	1	12	21.03	0.127	21.05	0.127	21.03	0.127
5	16QAM	1	24	20.99	0.126	21.03	0.127	20.96	0.125
5	16QAM	12	0	20.37	0.109	20.41	0.110	20.32	0.108
5	16QAM	12	7	20.34	0.108	20.35	0.108	20.25	0.106
5	16QAM	12	13	20.29	0.107	20.39	0.109	20.38	0.109
5	16QAM	25	0	20.26	0.106	20.31	0.107	20.22	0.105
5	64QAM	1	0	20.15	0.104	20.16	0.104	20.06	0.101
5	64QAM	1	12	20.10	0.102	20.15	0.104	20.06	0.101
5	64QAM	1	24	20.04	0.101	20.12	0.103	20.09	0.102
5	64QAM	12	0	19.45	0.088	19.47	0.089	19.45	0.088
5	64QAM	12	7	19.38	0.087	19.45	0.088	19.38	0.087
5	64QAM	12	13	19.39	0.087	19.42	0.087	19.35	0.086
5	64QAM	25	0	19.35	0.086	19.44	0.088	19.38	0.087



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		38750		/	
Frequency (MHz)				/		2310		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	23.78	0.239	/	/
10	QPSK	1	25	/	/	23.74	0.237	/	/
10	QPSK	1	49	/	/	23.69	0.234	/	/
10	QPSK	25	0	/	/	22.91	0.195	/	/
10	QPSK	25	12	/	/	22.79	0.190	/	/
10	QPSK	25	25	/	/	22.83	0.192	/	/
10	QPSK	50	0	/	/	22.85	0.193	/	/
10	16QAM	1	0	/	/	22.88	0.194	/	/
10	16QAM	1	25	/	/	22.84	0.192	/	/
10	16QAM	1	49	/	/	22.81	0.191	/	/
10	16QAM	25	0	/	/	21.93	0.156	/	/
10	16QAM	25	12	/	/	21.89	0.155	/	/
10	16QAM	25	25	/	/	21.80	0.151	/	/
10	16QAM	50	0	/	/	21.86	0.153	/	/
10	64QAM	1	0	/	/	21.87	0.154	/	/
10	64QAM	1	25	/	/	21.84	0.153	/	/
10	64QAM	1	49	/	/	21.78	0.151	/	/
10	64QAM	25	0	/	/	20.92	0.124	/	/
10	64QAM	25	12	/	/	20.83	0.121	/	/
10	64QAM	25	25	/	/	20.85	0.122	/	/
10	64QAM	50	0	/	/	20.72	0.118	/	/



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.64	0.231	23.67	0.233	23.60	0.229
5	QPSK	1	12	23.59	0.229	23.65	0.232	23.56	0.227
5	QPSK	1	24	23.49	0.223	23.61	0.230	23.62	0.230
5	QPSK	12	0	22.78	0.190	22.89	0.195	22.79	0.190
5	QPSK	12	7	22.77	0.189	22.74	0.188	22.61	0.182
5	QPSK	12	13	22.61	0.182	22.85	0.193	22.63	0.183
5	QPSK	25	0	22.82	0.191	22.90	0.195	22.69	0.186
5	16QAM	1	0	22.84	0.192	22.82	0.191	22.72	0.187
5	16QAM	1	12	22.61	0.182	22.58	0.181	22.73	0.187
5	16QAM	1	24	22.66	0.185	22.67	0.185	22.51	0.178
5	16QAM	12	0	21.76	0.150	21.88	0.154	21.85	0.153
5	16QAM	12	7	21.59	0.144	21.69	0.148	21.62	0.145
5	16QAM	12	13	21.62	0.145	21.86	0.153	21.57	0.144
5	16QAM	25	0	21.75	0.150	21.79	0.151	21.76	0.150
5	64QAM	1	0	21.77	0.150	21.93	0.156	21.76	0.150
5	64QAM	1	12	21.87	0.154	21.70	0.148	21.70	0.148
5	64QAM	1	24	21.66	0.147	21.71	0.148	21.80	0.151
5	64QAM	12	0	20.67	0.117	20.84	0.121	20.89	0.123
5	64QAM	12	7	20.81	0.121	20.82	0.121	20.80	0.120
5	64QAM	12	13	20.79	0.120	20.83	0.121	20.87	0.122
5	64QAM	25	0	20.59	0.115	20.70	0.117	20.69	0.117



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		39200		/	
Frequency (MHz)				/		2355		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	23.86	0.243	/	/
10	QPSK	1	25	/	/	23.82	0.241	/	/
10	QPSK	1	49	/	/	23.73	0.236	/	/
10	QPSK	25	0	/	/	22.97	0.198	/	/
10	QPSK	25	12	/	/	22.83	0.192	/	/
10	QPSK	25	25	/	/	22.88	0.194	/	/
10	QPSK	50	0	/	/	22.80	0.191	/	/
10	16QAM	1	0	/	/	22.89	0.195	/	/
10	16QAM	1	25	/	/	22.88	0.194	/	/
10	16QAM	1	49	/	/	22.79	0.190	/	/
10	16QAM	25	0	/	/	21.85	0.153	/	/
10	16QAM	25	12	/	/	21.96	0.157	/	/
10	16QAM	25	25	/	/	21.82	0.152	/	/
10	16QAM	50	0	/	/	21.89	0.155	/	/
10	64QAM	1	0	/	/	21.91	0.155	/	/
10	64QAM	1	25	/	/	21.87	0.154	/	/
10	64QAM	1	49	/	/	21.80	0.151	/	/
10	64QAM	25	0	/	/	20.99	0.126	/	/
10	64QAM	25	12	/	/	20.95	0.124	/	/
10	64QAM	25	25	/	/	20.86	0.122	/	/
10	64QAM	50	0	/	/	20.91	0.123	/	/



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.75	0.237	23.78	0.239	23.73	0.236
5	QPSK	1	12	23.59	0.229	23.76	0.238	23.62	0.230
5	QPSK	1	24	23.67	0.233	23.65	0.232	23.49	0.223
5	QPSK	12	0	22.86	0.193	22.96	0.198	22.93	0.196
5	QPSK	12	7	22.70	0.186	22.96	0.198	22.73	0.187
5	QPSK	12	13	22.76	0.189	22.74	0.188	22.68	0.185
5	QPSK	25	0	22.70	0.186	22.84	0.192	22.71	0.187
5	16QAM	1	0	22.86	0.193	22.83	0.192	22.81	0.191
5	16QAM	1	12	22.71	0.187	22.84	0.192	22.82	0.191
5	16QAM	1	24	22.67	0.185	22.68	0.185	22.71	0.187
5	16QAM	12	0	21.82	0.152	21.87	0.154	21.86	0.153
5	16QAM	12	7	21.86	0.153	21.73	0.149	21.73	0.149
5	16QAM	12	13	21.80	0.151	21.71	0.148	21.88	0.154
5	16QAM	25	0	21.75	0.150	21.88	0.154	21.69	0.148
5	64QAM	1	0	21.84	0.153	21.98	0.158	21.76	0.150
5	64QAM	1	12	21.77	0.150	21.91	0.155	21.77	0.150
5	64QAM	1	24	21.76	0.150	21.81	0.152	21.74	0.149
5	64QAM	12	0	20.75	0.119	20.79	0.120	20.87	0.122
5	64QAM	12	7	20.71	0.118	20.89	0.123	20.83	0.121
5	64QAM	12	13	20.78	0.120	20.68	0.117	20.68	0.117
5	64QAM	25	0	20.61	0.115	20.74	0.119	20.73	0.118



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40340		40740		41140	
Frequency (MHz)				2565		2605		2645	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.03	0.160	22.12	0.163	22.06	0.161
20	QPSK	1	49	21.83	0.152	22.01	0.159	22.01	0.159
20	QPSK	1	99	21.81	0.152	21.99	0.158	21.88	0.154
20	QPSK	50	0	20.91	0.123	21.17	0.131	20.96	0.125
20	QPSK	50	24	20.89	0.123	21.01	0.126	20.88	0.122
20	QPSK	50	50	20.88	0.122	20.98	0.125	20.83	0.121
20	QPSK	100	0	20.85	0.122	20.97	0.125	20.81	0.121
20	16QAM	1	0	20.67	0.117	20.72	0.118	20.79	0.120
20	16QAM	1	49	20.64	0.116	20.70	0.117	20.71	0.118
20	16QAM	1	99	20.60	0.115	20.63	0.116	20.59	0.115
20	16QAM	50	0	19.96	0.099	20.10	0.102	20.00	0.100
20	16QAM	50	24	19.94	0.099	20.07	0.102	19.95	0.099
20	16QAM	50	50	19.93	0.098	20.04	0.101	19.99	0.100
20	16QAM	100	0	19.92	0.098	19.94	0.099	19.96	0.099
20	64QAM	1	0	19.68	0.093	20.04	0.101	19.92	0.098
20	64QAM	1	49	19.63	0.092	20.05	0.101	19.89	0.097
20	64QAM	1	99	19.60	0.091	19.75	0.094	19.74	0.094
20	64QAM	50	0	19.02	0.080	18.99	0.079	19.13	0.082
20	64QAM	50	24	18.99	0.079	19.19	0.083	19.04	0.080
20	64QAM	50	50	19.00	0.079	19.22	0.084	19.02	0.080
20	64QAM	100	0	18.89	0.077	19.15	0.082	18.99	0.079



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40315		40740		41165	
Frequency (MHz)				2562.5		2605		2647.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.98	0.158	22.07	0.161	22.01	0.159
15	QPSK	1	37	21.78	0.151	21.96	0.157	21.96	0.157
15	QPSK	1	74	21.76	0.150	21.94	0.156	21.83	0.152
15	QPSK	36	0	20.86	0.122	20.97	0.125	20.91	0.123
15	QPSK	36	20	20.84	0.121	20.96	0.125	20.83	0.121
15	QPSK	36	39	20.83	0.121	20.93	0.124	20.78	0.120
15	QPSK	75	0	20.80	0.120	20.92	0.124	20.76	0.119
15	16QAM	1	0	20.62	0.115	20.67	0.117	20.74	0.119
15	16QAM	1	37	20.59	0.115	20.65	0.116	20.66	0.116
15	16QAM	1	74	20.55	0.114	20.58	0.114	20.54	0.113
15	16QAM	36	0	19.91	0.098	20.05	0.101	19.95	0.099
15	16QAM	36	20	19.89	0.097	20.02	0.100	19.90	0.098
15	16QAM	36	39	19.88	0.097	19.99	0.100	19.94	0.099
15	16QAM	75	0	19.87	0.097	19.89	0.097	19.91	0.098
15	64QAM	1	0	19.63	0.092	19.99	0.100	19.87	0.097
15	64QAM	1	37	19.58	0.091	20.00	0.100	19.84	0.096
15	64QAM	1	74	19.55	0.090	19.70	0.093	19.69	0.093
15	64QAM	36	0	18.97	0.079	18.94	0.078	19.08	0.081
15	64QAM	36	20	18.94	0.078	19.14	0.082	18.99	0.079
15	64QAM	36	39	18.95	0.079	19.17	0.083	18.97	0.079
15	64QAM	75	0	18.84	0.077	19.10	0.081	18.94	0.078



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40290		40740		41190	
Frequency (MHz)				2560		2605		2650	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.95	0.157	22.04	0.160	21.98	0.158
10	QPSK	1	25	21.75	0.150	21.93	0.156	21.93	0.156
10	QPSK	1	49	21.73	0.149	21.91	0.155	21.80	0.151
10	QPSK	25	0	20.83	0.121	20.94	0.124	20.88	0.122
10	QPSK	25	12	20.81	0.121	20.93	0.124	20.80	0.120
10	QPSK	25	25	20.80	0.120	20.90	0.123	20.75	0.119
10	QPSK	50	0	20.77	0.119	20.89	0.123	20.73	0.118
10	16QAM	1	0	20.59	0.115	20.64	0.116	20.71	0.118
10	16QAM	1	25	20.56	0.114	20.62	0.115	20.63	0.116
10	16QAM	1	49	20.52	0.113	20.55	0.114	20.51	0.112
10	16QAM	25	0	19.88	0.097	20.02	0.100	19.92	0.098
10	16QAM	25	12	19.86	0.097	19.99	0.100	19.87	0.097
10	16QAM	25	25	19.85	0.097	19.96	0.099	19.91	0.098
10	16QAM	50	0	19.84	0.096	19.86	0.097	19.88	0.097
10	64QAM	1	0	19.60	0.091	19.96	0.099	19.84	0.096
10	64QAM	1	25	19.55	0.090	19.97	0.099	19.81	0.096
10	64QAM	1	49	19.52	0.090	19.67	0.093	19.66	0.092
10	64QAM	25	0	18.94	0.078	18.91	0.078	19.05	0.080
10	64QAM	25	12	18.91	0.078	19.11	0.081	18.96	0.079
10	64QAM	25	25	18.92	0.078	19.14	0.082	18.94	0.078
10	64QAM	50	0	18.81	0.076	19.07	0.081	18.91	0.078



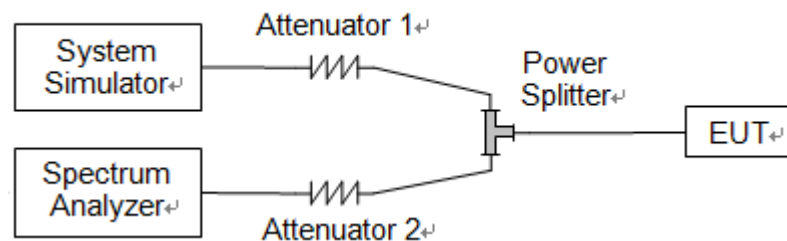
LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40265		40740		41215	
Frequency (MHz)				2557.5		2605		2652.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.90	0.155	21.99	0.158	21.93	0.156
5	QPSK	1	12	21.70	0.148	21.88	0.154	21.88	0.154
5	QPSK	1	24	21.68	0.147	21.86	0.153	21.75	0.150
5	QPSK	12	0	20.78	0.120	20.89	0.123	20.83	0.121
5	QPSK	12	7	20.76	0.119	20.88	0.122	20.75	0.119
5	QPSK	12	13	20.75	0.119	20.85	0.122	20.70	0.117
5	QPSK	25	0	20.72	0.118	20.84	0.121	20.68	0.117
5	16QAM	1	0	20.54	0.113	20.59	0.115	20.66	0.116
5	16QAM	1	12	20.51	0.112	20.57	0.114	20.58	0.114
5	16QAM	1	24	20.47	0.111	20.50	0.112	20.46	0.111
5	16QAM	12	0	19.83	0.096	19.97	0.099	19.87	0.097
5	16QAM	12	7	19.81	0.096	19.94	0.099	19.82	0.096
5	16QAM	12	13	19.80	0.095	19.91	0.098	19.86	0.097
5	16QAM	25	0	19.79	0.095	19.81	0.096	19.83	0.096
5	64QAM	1	0	19.55	0.090	19.91	0.098	19.79	0.095
5	64QAM	1	12	19.50	0.089	19.92	0.098	19.76	0.095
5	64QAM	1	24	19.47	0.089	19.62	0.092	19.61	0.091
5	64QAM	12	0	18.89	0.077	18.86	0.077	19.00	0.079
5	64QAM	12	7	18.86	0.077	19.06	0.081	18.91	0.078
5	64QAM	12	13	18.87	0.077	19.09	0.081	18.89	0.077
5	64QAM	25	0	18.76	0.075	19.02	0.080	18.86	0.077

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

**2.2.4. Test Result**

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B5	1.4	Low	20407	824.7	QPSK	1.0941	1.2611	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0944	1.2905	PASS
B5	1.4	Low	20407	824.7	64QAM	1.0996	1.2887	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0946	1.2691	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.1021	1.2929	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.0990	1.3100	PASS
B5	1.4	High	20643	848.3	QPSK	1.0971	1.3081	PASS
B5	1.4	High	20643	848.3	16QAM	1.0990	1.3241	PASS
B5	1.4	High	20643	848.3	64QAM	1.0975	1.2922	PASS
B5	3	Low	20415	825.5	QPSK	2.6885	2.9107	PASS
B5	3	Low	20415	825.5	16QAM	2.6884	2.9330	PASS
B5	3	Low	20415	825.5	64QAM	2.7050	3.3762	PASS
B5	3	Mid	20525	836.5	QPSK	2.6916	2.9161	PASS
B5	3	Mid	20525	836.5	16QAM	2.6949	2.9217	PASS
B5	3	Mid	20525	836.5	64QAM	2.6986	2.9249	PASS
B5	3	High	20635	847.5	QPSK	2.6892	2.9159	PASS
B5	3	High	20635	847.5	16QAM	2.6916	2.9247	PASS
B5	3	High	20635	847.5	64QAM	2.6977	2.9177	PASS
B5	5	Low	20425	826.5	QPSK	4.4707	4.8423	PASS
B5	5	Low	20425	826.5	16QAM	4.4774	4.8541	PASS
B5	5	Low	20425	826.5	64QAM	4.4727	4.7980	PASS
B5	5	Mid	20525	836.5	QPSK	4.4748	4.8260	PASS
B5	5	Mid	20525	836.5	16QAM	4.4673	4.8021	PASS
B5	5	Mid	20525	836.5	64QAM	4.4816	4.8338	PASS
B5	5	High	20625	846.5	QPSK	4.4775	4.9256	PASS
B5	5	High	20625	846.5	16QAM	4.4787	5.4558	PASS
B5	5	High	20625	846.5	64QAM	4.4775	4.8286	PASS
B5	10	Low	20450	829	QPSK	8.9391	9.5564	PASS
B5	10	Low	20450	829	16QAM	8.9348	9.5265	PASS
B5	10	Low	20450	829	64QAM	8.9461	9.5395	PASS
B5	10	Mid	20525	836.5	QPSK	8.9482	9.5136	PASS
B5	10	Mid	20525	836.5	16QAM	8.9291	9.5584	PASS
B5	10	Mid	20525	836.5	64QAM	8.9412	9.5472	PASS



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B5	10	High	20600	844	QPSK	8.9382	9.4970	PASS
B5	10	High	20600	844	16QAM	8.9279	9.4534	PASS
B5	10	High	20600	844	64QAM	8.9454	9.5558	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.4743	4.8467	PASS
B7	5	Low	20775	2502.5	16QAM	4.4697	4.8370	PASS
B7	5	Low	20775	2502.5	64QAM	4.4742	4.8326	PASS
B7	5	Mid	21100	2535	QPSK	4.4745	4.8384	PASS
B7	5	Mid	21100	2535	16QAM	4.4641	4.8363	PASS
B7	5	Mid	21100	2535	64QAM	4.4738	4.8259	PASS
B7	5	High	21425	2567.5	QPSK	4.4721	4.8151	PASS
B7	5	High	21425	2567.5	16QAM	4.4681	4.8032	PASS
B7	5	High	21425	2567.5	64QAM	4.4774	4.8543	PASS
B7	10	Low	20800	2505	QPSK	8.9377	9.5870	PASS
B7	10	Low	20800	2505	16QAM	8.9307	9.5597	PASS
B7	10	Low	20800	2505	64QAM	8.9381	9.5659	PASS
B7	10	Mid	21100	2535	QPSK	8.9365	9.5581	PASS
B7	10	Mid	21100	2535	16QAM	8.9244	9.5134	PASS
B7	10	Mid	21100	2535	64QAM	8.9370	9.5589	PASS
B7	10	High	21400	2565	QPSK	8.9351	9.5752	PASS
B7	10	High	21400	2565	16QAM	8.9218	9.5380	PASS
B7	10	High	21400	2565	64QAM	8.9350	9.4970	PASS
B7	15	Low	20825	2507.5	QPSK	13.453	14.215	PASS
B7	15	Low	20825	2507.5	16QAM	13.413	14.428	PASS
B7	15	Low	20825	2507.5	64QAM	13.380	14.360	PASS
B7	15	Mid	21100	2535	QPSK	13.420	14.261	PASS
B7	15	Mid	21100	2535	16QAM	13.406	14.306	PASS
B7	15	Mid	21100	2535	64QAM	13.391	14.316	PASS
B7	15	High	21375	2562.5	QPSK	13.434	14.322	PASS
B7	15	High	21375	2562.5	16QAM	13.412	14.488	PASS
B7	15	High	21375	2562.5	64QAM	13.396	14.385	PASS
B7	20	Low	20850	2510	QPSK	17.875	18.949	PASS
B7	20	Low	20850	2510	16QAM	17.885	18.909	PASS
B7	20	Low	20850	2510	64QAM	17.867	18.953	PASS
B7	20	Mid	21100	2535	QPSK	17.849	18.879	PASS



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B7	20	Mid	21100	2535	16QAM	17.900	18.993	PASS
B7	20	Mid	21100	2535	64QAM	17.866	19.082	PASS
B7	20	High	21350	2560	QPSK	17.886	18.944	PASS
B7	20	High	21350	2560	16QAM	17.891	18.962	PASS
B7	20	High	21350	2560	64QAM	17.882	19.127	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B38	5	Low	37775	2572.5	QPSK	4.4637	4.7796	PASS
B38	5	Low	37775	2572.5	16QAM	4.4692	4.8755	PASS
B38	5	Low	37775	2572.5	64QAM	4.4772	4.7948	PASS
B38	5	Mid	38000	2595	QPSK	4.4688	4.8067	PASS
B38	5	Mid	38000	2595	16QAM	4.4720	4.8087	PASS
B38	5	Mid	38000	2595	64QAM	4.4791	4.8078	PASS
B38	5	High	38225	2617.5	QPSK	4.4675	4.8043	PASS
B38	5	High	38225	2617.5	16QAM	4.4665	4.8601	PASS
B38	5	High	38225	2617.5	64QAM	4.4703	4.7846	PASS
B38	10	Low	37800	2575	QPSK	8.9366	9.6994	PASS
B38	10	Low	37800	2575	16QAM	8.9337	9.7664	PASS
B38	10	Low	37800	2575	64QAM	8.9343	9.5875	PASS
B38	10	Mid	38000	2595	QPSK	8.9266	9.6610	PASS
B38	10	Mid	38000	2595	16QAM	8.9385	9.6130	PASS
B38	10	Mid	38000	2595	64QAM	8.9359	9.5991	PASS
B38	10	High	38200	2615	QPSK	8.9451	9.6787	PASS
B38	10	High	38200	2615	16QAM	8.9387	9.7003	PASS
B38	10	High	38200	2615	64QAM	8.9329	9.5368	PASS
B38	15	Low	37825	2577.5	QPSK	13.420	14.092	PASS
B38	15	Low	37825	2577.5	16QAM	13.408	14.531	PASS
B38	15	Low	37825	2577.5	64QAM	13.382	14.269	PASS
B38	15	Mid	38000	2595	QPSK	13.440	14.267	PASS
B38	15	Mid	38000	2595	16QAM	13.410	14.216	PASS
B38	15	Mid	38000	2595	64QAM	13.376	14.301	PASS
B38	15	High	38175	2612.5	QPSK	13.392	14.194	PASS
B38	15	High	38175	2612.5	16QAM	13.421	14.393	PASS
B38	15	High	38175	2612.5	64QAM	13.371	14.257	PASS
B38	20	Low	37850	2580	QPSK	17.865	19.032	PASS
B38	20	Low	37850	2580	16QAM	17.869	18.980	PASS
B38	20	Low	37850	2580	64QAM	17.889	18.968	PASS
B38	20	Mid	38000	2595	QPSK	17.841	18.998	PASS
B38	20	Mid	38000	2595	16QAM	17.870	18.872	PASS
B38	20	Mid	38000	2595	64QAM	17.850	18.931	PASS
B38	20	High	38150	2610	QPSK	17.896	19.112	PASS
B38	20	High	38150	2610	16QAM	17.821	18.860	PASS



B38	20	High	38150	2610	64QAM	17.877	18.913	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-1	5	Low	38725	2307.5	QPSK	4.4866	5.0047	PASS
B40-1	5	Low	38725	2307.5	16QAM	4.4769	4.9700	PASS
B40-1	5	Low	38725	2307.5	64QAM	4.4885	4.9224	PASS
B40-1	5	Mid	38750	2310	QPSK	4.4825	4.9822	PASS
B40-1	5	Mid	38750	2310	16QAM	4.4815	4.9721	PASS
B40-1	5	Mid	38750	2310	64QAM	4.4809	4.9048	PASS
B40-1	5	High	38775	2312.5	QPSK	4.4806	4.9729	PASS
B40-1	5	High	38775	2312.5	16QAM	4.4706	4.9171	PASS
B40-1	5	High	38775	2312.5	64QAM	4.4941	4.9569	PASS
B40-1	10	Mid	38750	2310	QPSK	8.9365	9.7364	PASS
B40-1	10	Mid	38750	2310	16QAM	8.9302	9.8123	PASS
B40-1	10	Mid	38750	2310	64QAM	8.9505	9.7990	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-2	5	Low	39175	2352.5	QPSK	4.4723	4.9995	PASS
B40-2	5	Low	39175	2352.5	16QAM	4.4709	5.0236	PASS
B40-2	5	Low	39175	2352.5	64QAM	4.4949	5.0057	PASS
B40-2	5	Mid	39200	2355	QPSK	4.4788	5.0175	PASS
B40-2	5	Mid	39200	2355	16QAM	4.4793	5.0355	PASS
B40-2	5	Mid	39200	2355	64QAM	4.4854	4.9484	PASS
B40-2	5	High	39225	2357.5	QPSK	4.4852	5.0247	PASS
B40-2	5	High	39225	2357.5	16QAM	4.4781	4.9952	PASS
B40-2	5	High	39225	2357.5	64QAM	4.4837	4.9885	PASS
B40-2	10	Mid	39200	2355	QPSK	8.9443	9.8247	PASS
B40-2	10	Mid	39200	2355	16QAM	8.9395	9.6999	PASS
B40-2	10	Mid	39200	2355	64QAM	8.9449	9.7935	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B41	5	Low	40265	2557.5	QPSK	4.4731	4.8132	PASS
B41	5	Low	40265	2557.5	16QAM	4.4656	4.8499	PASS
B41	5	Low	40265	2557.5	64QAM	4.4698	4.8077	PASS
B41	5	Mid	40740	2605	QPSK	4.4673	4.7888	PASS
B41	5	Mid	40740	2605	16QAM	4.4688	4.8248	PASS
B41	5	Mid	40740	2605	64QAM	4.4816	4.7683	PASS
B41	5	High	41215	2652.5	QPSK	4.4798	4.8377	PASS
B41	5	High	41215	2652.5	16QAM	4.4680	4.7638	PASS
B41	5	High	41215	2652.5	64QAM	4.4858	4.7695	PASS
B41	10	Low	40290	2560	QPSK	8.9298	9.4868	PASS
B41	10	Low	40290	2560	16QAM	8.9273	9.5864	PASS
B41	10	Low	40290	2560	64QAM	8.9317	9.5353	PASS
B41	10	Mid	40740	2605	QPSK	8.9375	9.6290	PASS
B41	10	Mid	40740	2605	16QAM	8.9395	9.8039	PASS
B41	10	Mid	40740	2605	64QAM	8.9385	9.5456	PASS
B41	10	High	41190	2650	QPSK	8.9418	9.6446	PASS
B41	10	High	41190	2650	16QAM	8.9347	9.6086	PASS
B41	10	High	41190	2650	64QAM	8.9131	9.4960	PASS
B41	15	Low	40315	2562.5	QPSK	13.391	14.185	PASS
B41	15	Low	40315	2562.5	16QAM	13.407	14.087	PASS
B41	15	Low	40315	2562.5	64QAM	13.394	14.307	PASS
B41	15	Mid	40740	2605	QPSK	13.419	14.175	PASS
B41	15	Mid	40740	2605	16QAM	13.421	14.277	PASS
B41	15	Mid	40740	2605	64QAM	13.399	14.432	PASS
B41	15	High	41165	2647.5	QPSK	13.400	14.256	PASS
B41	15	High	41165	2647.5	16QAM	13.402	14.239	PASS
B41	15	High	41165	2647.5	64QAM	13.371	14.517	PASS
B41	20	Low	40340	2565	QPSK	17.876	18.830	PASS
B41	20	Low	40340	2565	16QAM	17.819	18.911	PASS
B41	20	Low	40340	2565	64QAM	17.912	19.197	PASS
B41	20	Mid	40740	2605	QPSK	17.871	19.191	PASS
B41	20	Mid	40740	2605	16QAM	17.873	18.990	PASS
B41	20	Mid	40740	2605	64QAM	17.875	19.137	PASS
B41	20	High	41140	2645	QPSK	17.886	19.028	PASS
B41	20	High	41140	2645	16QAM	17.864	18.961	PASS



B41	20	High	41140	2645	64QAM	17.913	19.330	PASS
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B5 / 1.4MHz / QPSK/ Low CH



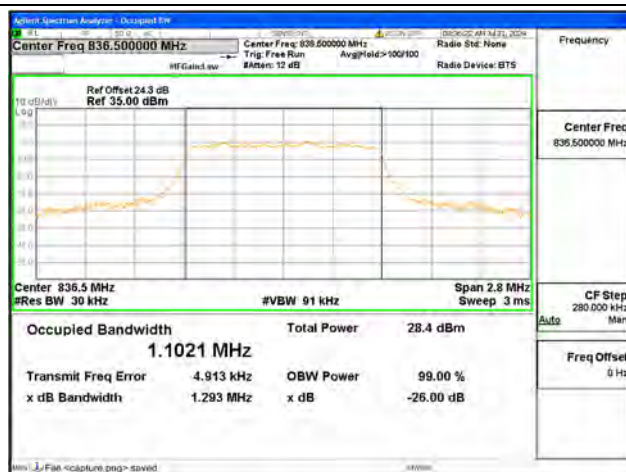
B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / 64QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



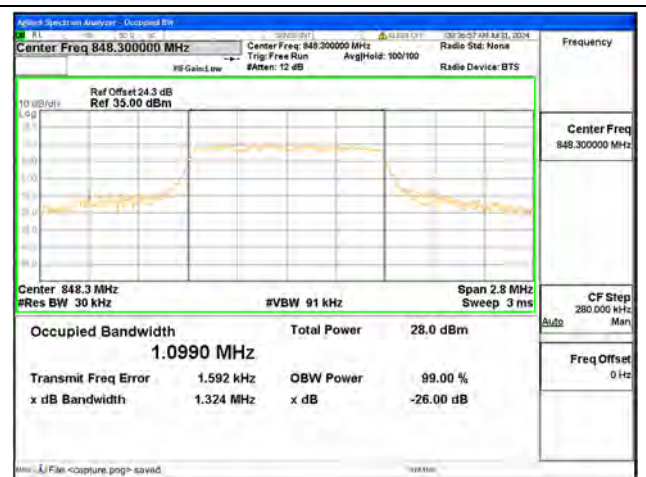
B5 / 1.4MHz / 16QAM/ Mid CH



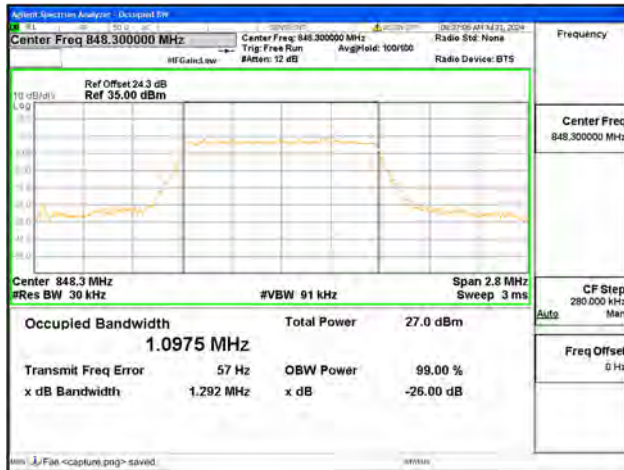
B5 / 1.4MHz / 64QAM/ Mid CH



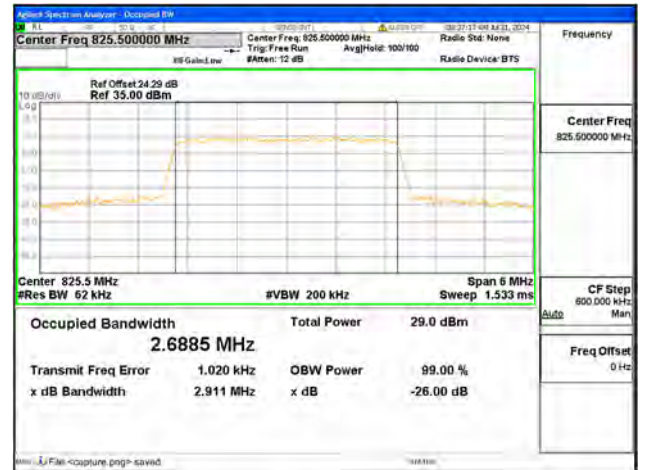
B5 / 1.4MHz / QPSK/ High CH



B5 / 1.4MHz / 16QAM/ High CH



B5 / 1.4MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / 64QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / 64QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 3MHz / 64QAM/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / 64QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / 64QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 5MHz / 64QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / 64QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / 64QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



B5 / 10MHz / 64QAM/ High CH



B7 / 5MHz / QPSK/ Low CH



B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / 64QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



B7 / 5MHz / 16QAM/ Mid CH



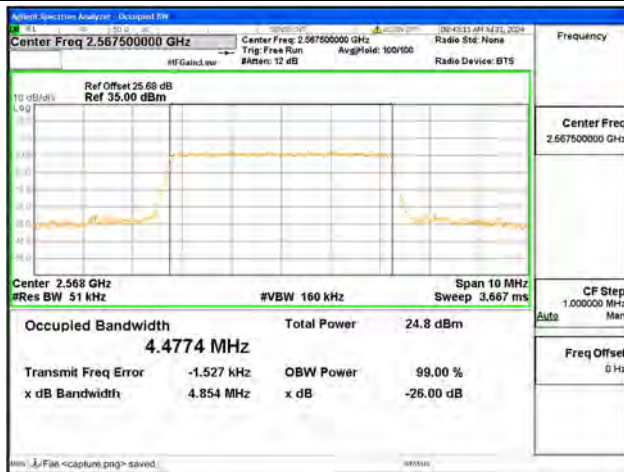
B7 / 5MHz / 64QAM/ Mid CH



B7 / 5MHz / QPSK/ High CH



B7 / 5MHz / 16QAM/ High CH



B7 / 5MHz / 64QAM/ High CH



B7 / 10MHz / QPSK/ Low CH



B7 / 10MHz / 16QAM/ Low CH



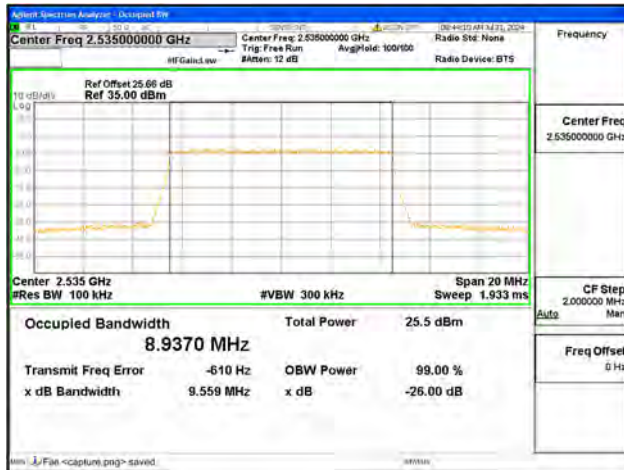
B7 / 10MHz / 64QAM/ Low CH



B7 / 10MHz / QPSK/ Mid CH



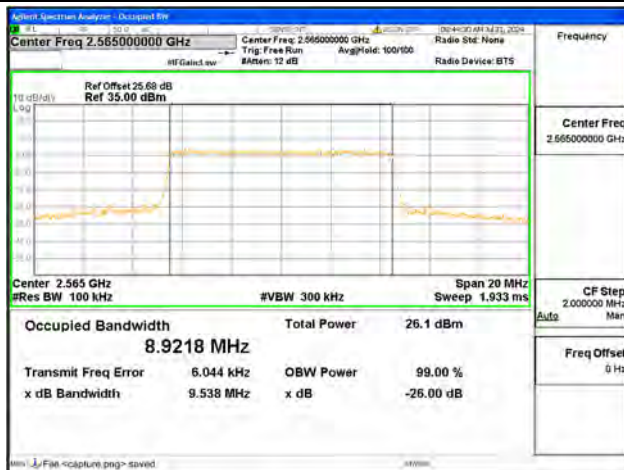
B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / 64QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



B7 / 10MHz / 16QAM/ High CH



B7 / 10MHz / 64QAM/ High CH



B7 / 15MHz / QPSK/ Low CH



B7 / 15MHz / 16QAM/ Low CH



B7 / 15MHz / 64QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



B7 / 15MHz / 16QAM/ Mid CH



B7 / 15MHz / 64QAM/ Mid CH



B7 / 15MHz / QPSK/ High CH



B7 / 15MHz / 16QAM/ High CH



B7 / 15MHz / 64QAM/ High CH



B7 / 20MHz / QPSK/ Low CH



B7 / 20MHz / 16QAM/ Low CH



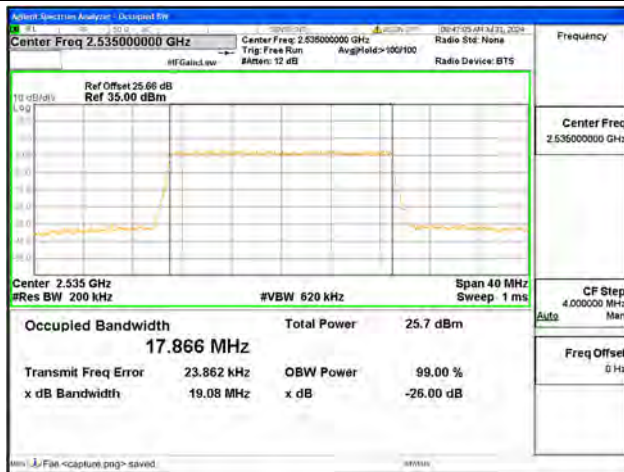
B7 / 20MHz / 64QAM/ Low CH



B7 / 20MHz / QPSK/ Mid CH



B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / 64QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



B7 / 20MHz / 16QAM/ High CH



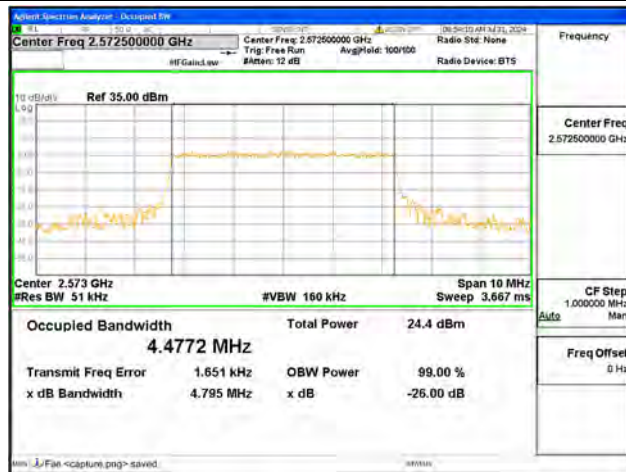
B7 / 20MHz / 64QAM/ High CH



B38 / 5MHz / QPSK/ Low CH



B38 / 5MHz / 16QAM/ Low CH



B38 / 5MHz / 64QAM/ Low CH



B38 / 5MHz / QPSK/ Mid CH



B38 / 5MHz / 16QAM/ Mid CH



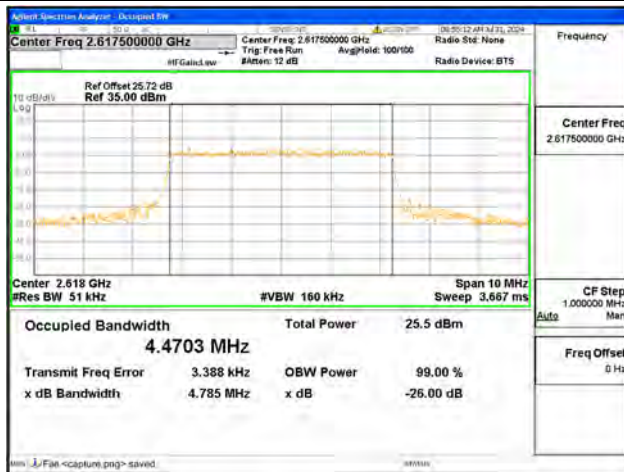
B38 / 5MHz / 64QAM/ Mid CH



B38 / 5MHz / QPSK/ High CH



B38 / 5MHz / 16QAM/ High CH



B38 / 5MHz / 64QAM/ High CH



B38 / 10MHz / QPSK/ Low CH



B38 / 10MHz / 16QAM/ Low CH



B38 / 10MHz / 64QAM/ Low CH



B38 / 10MHz / QPSK/ Mid CH



B38 / 10MHz / 16QAM/ Mid CH



B38 / 10MHz / 64QAM/ Mid CH



B38 / 10MHz / QPSK/ High CH



B38 / 10MHz / 16QAM/ High CH



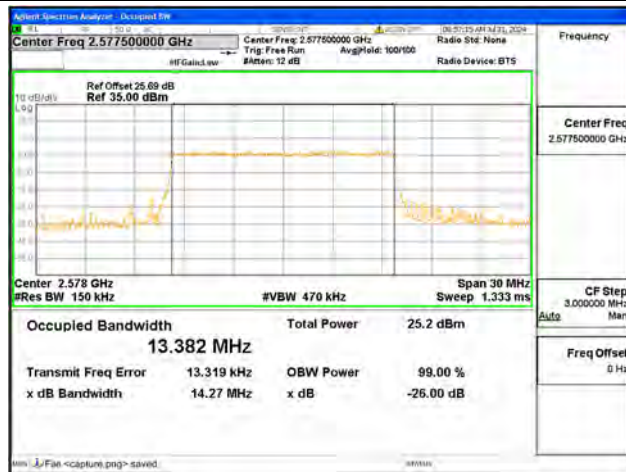
B38 / 10MHz / 64QAM/ High CH



B38 / 15MHz / QPSK/ Low CH



B38 / 15MHz / 16QAM/ Low CH



B38 / 15MHz / 64QAM/ Low CH



B38 / 15MHz / QPSK/ Mid CH



B38 / 15MHz / 16QAM/ Mid CH



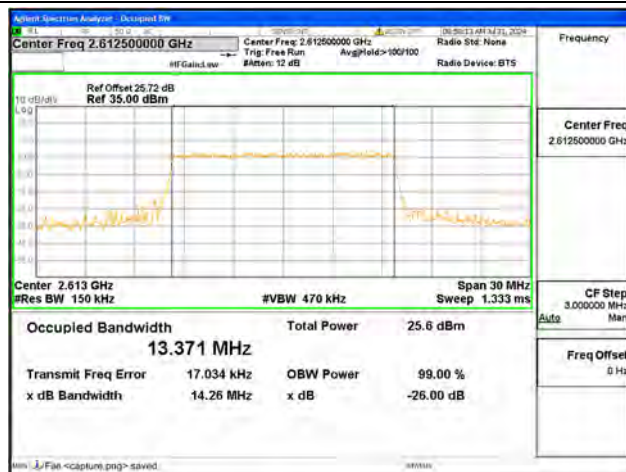
B38 / 15MHz / 64QAM/ Mid CH



B38 / 15MHz / QPSK/ High CH



B38 / 15MHz / 16QAM/ High CH



B38 / 15MHz / 64QAM/ High CH



B38 / 20MHz / QPSK/ Low CH



B38 / 20MHz / 16QAM/ Low CH



B38 / 20MHz / 64QAM/ Low CH



B38 / 20MHz / QPSK/ Mid CH



B38 / 20MHz / 16QAM/ Mid CH



B38 / 20MHz / 64QAM/ Mid CH



B38 / 20MHz / QPSK/ High CH



B38 / 20MHz / 16QAM/ High CH



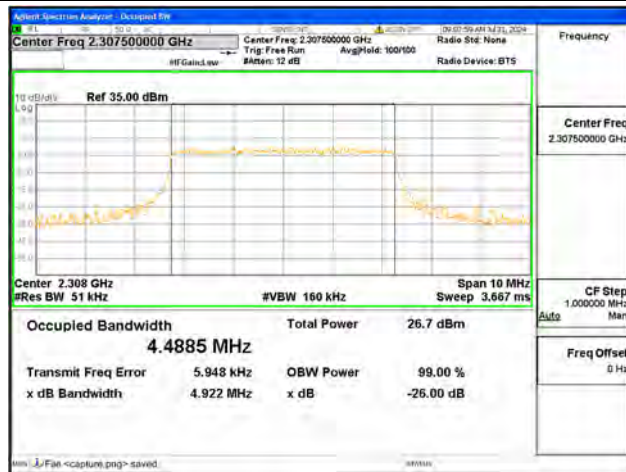
B38 / 20MHz / 64QAM/ High CH



B40-1 / 5MHz / QPSK/ Low CH



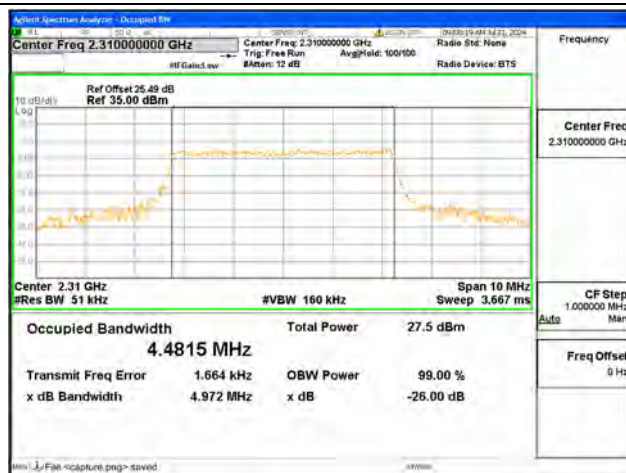
B40-1 / 5MHz / 16QAM/ Low CH



B40-1 / 5MHz / 64QAM/ Low CH



B40-1 / 5MHz / QPSK/ Mid CH



B40-1 / 5MHz / 16QAM/ Mid CH



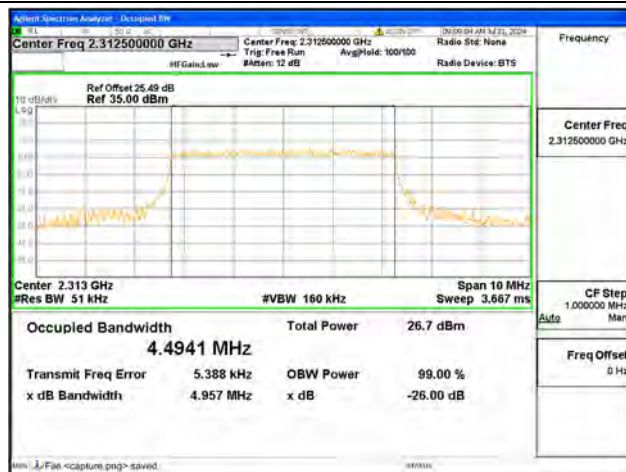
B40-1 / 5MHz / 64QAM/ Mid CH



B40-1 / 5MHz / QPSK/ High CH



B40-1 / 5MHz / 16QAM/ High CH



B40-1 / 5MHz / 64QAM/ High CH



B40-1 / 10MHz / QPSK/ Mid CH



B40-1 / 10MHz / 16QAM/ Mid CH



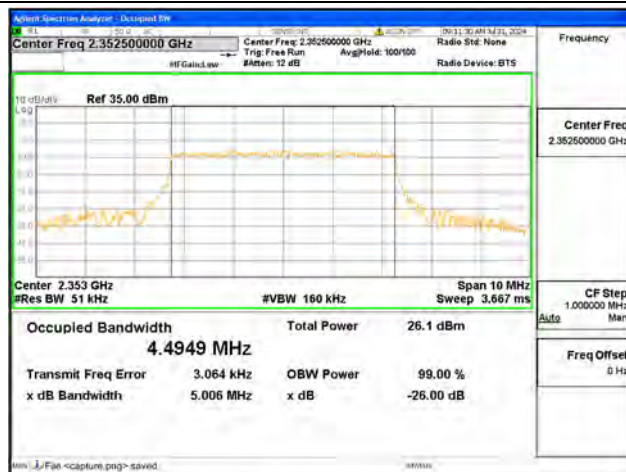
B40-1 / 10MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ Low CH



B40-2 / 5MHz / 16QAM/ Low CH



B40-2 / 5MHz / 64QAM/ Low CH



B40-2 / 5MHz / QPSK/ Mid CH



B40-2 / 5MHz / 16QAM/ Mid CH



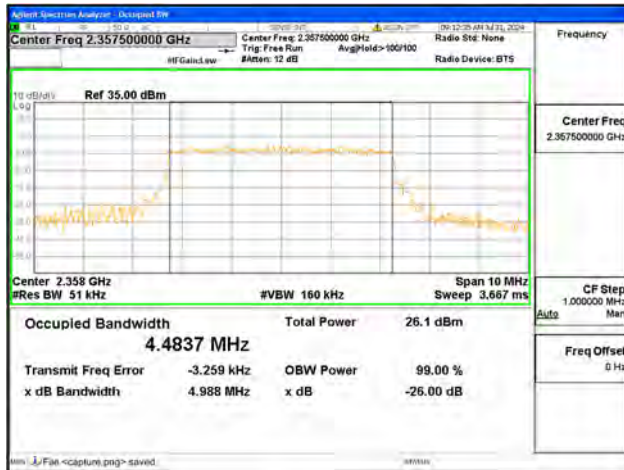
B40-2 / 5MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ High CH



B40-2 / 5MHz / 16QAM/ High CH



B40-2 / 5MHz / 64QAM/ High CH



B40-2 / 10MHz / QPSK/ Mid CH



B40-2 / 10MHz / 16QAM/ Mid CH



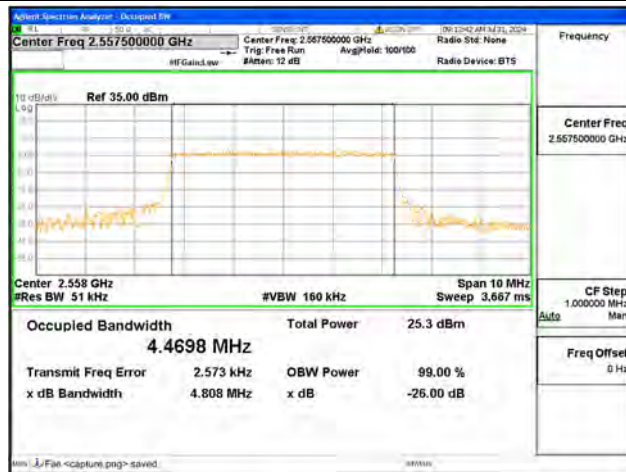
B40-2 / 10MHz / 64QAM/ Mid CH



B41 / 5MHz / QPSK/ Low CH



B41 / 5MHz / 16QAM/ Low CH



B41 / 5MHz / 64QAM/ Low CH



B41 / 5MHz / QPSK/ Mid CH



B41 / 5MHz / 16QAM/ Mid CH



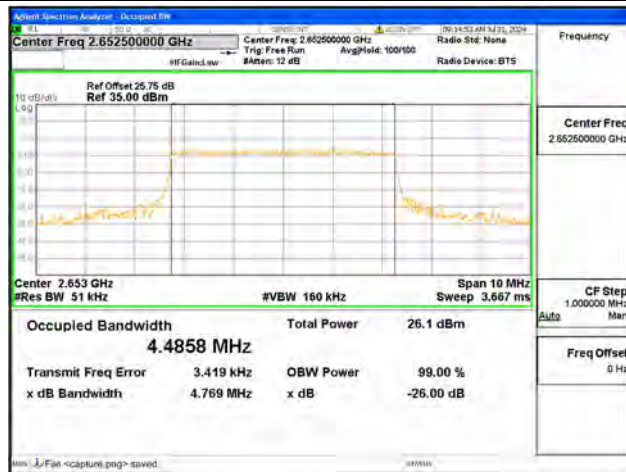
B41 / 5MHz / 64QAM/ Mid CH



B41 / 5MHz / QPSK/ High CH



B41 / 5MHz / 16QAM/ High CH



B41 / 5MHz / 64QAM/ High CH



B41 / 10MHz / QPSK/ Low CH



B41 / 10MHz / 16QAM/ Low CH



B41 / 10MHz / 64QAM/ Low CH



B41 / 10MHz / QPSK/ Mid CH



B41 / 10MHz / 16QAM/ Mid CH



B41 / 10MHz / 64QAM/ Mid CH



B41 / 10MHz / QPSK/ High CH



B41 / 10MHz / 16QAM/ High CH



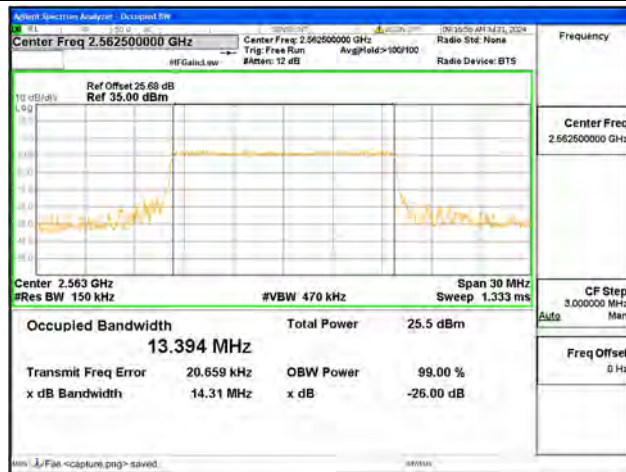
B41 / 10MHz / 64QAM/ High CH



B41 / 15MHz / QPSK/ Low CH



B41 / 15MHz / 16QAM/ Low CH



B41 / 15MHz / 64QAM/ Low CH



B41 / 15MHz / QPSK/ Mid CH



B41 / 15MHz / 16QAM/ Mid CH



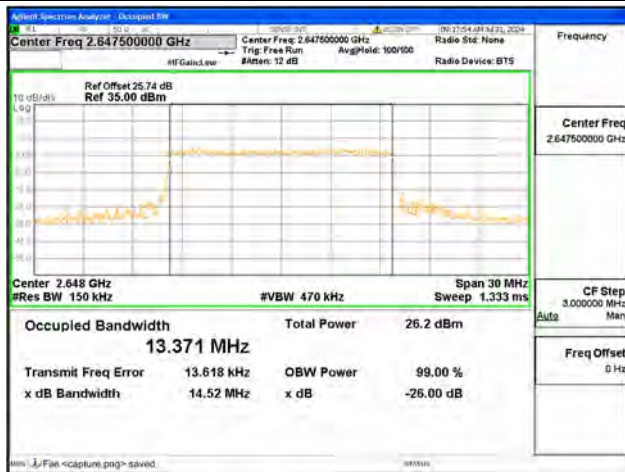
B41 / 15MHz / 64QAM/ Mid CH



B41 / 15MHz / QPSK/ High CH



B41 / 15MHz / 16QAM/ High CH



B41 / 15MHz / 64QAM/ High CH



B41 / 20MHz / QPSK/ Low CH



B41 / 20MHz / 16QAM/ Low CH



B41 / 20MHz / 64QAM/ Low CH



B41 / 20MHz / QPSK/ Mid CH



B41 / 20MHz / 16QAM/ Mid CH



B41 / 20MHz / 64QAM/ Mid CH



B41 / 20MHz / QPSK/ High CH



B41 / 20MHz / 16QAM/ High CH



B41 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

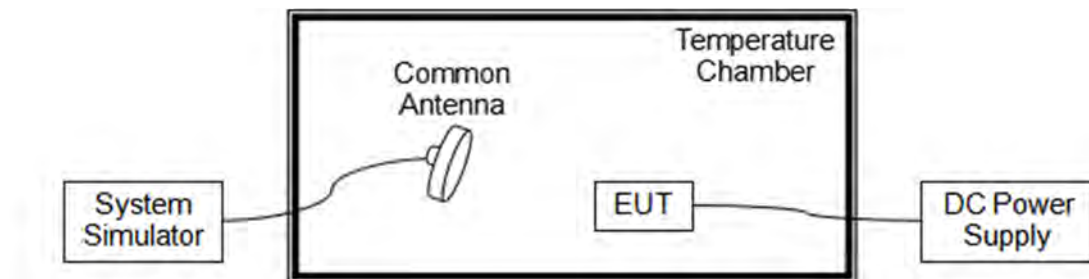
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -20°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.4V and 3.0V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 5, 64QAM, Channel 20525, Frequency 836.5MHz					
Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	15	0.018	PASS
Normal		-20	20	0.024	
Normal		-10	-1	-0.001	
Normal		0	17	0.020	
Normal		+10	15	0.018	
Normal		+20	15	0.018	
Normal		+30	18	0.022	
Normal		+40	19	0.023	
Normal		+50	15	0.018	
Normal		+55	15	0.018	
High	4.40	+20	18	0.022	
BATT.ENDPOINT	3.00	+20	8	0.010	



LTE Band 7, 64QAM, Channel 21100, Frequency 2535.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	18	0.007	PASS
Normal		-20	19	0.007	
Normal		-10	16	0.006	
Normal		0	13	0.005	
Normal		+10	13	0.005	
Normal		+20	6	0.002	
Normal		+30	17	0.007	
Normal		+40	8	0.003	
Normal		+50	20	0.008	
Normal		+55	-9	-0.004	
High	4.40	+20	19	0.007	
BATT.ENDPOINT	3.00	+20	-2	-0.001	

LTE Band 38, 64QAM, Channel 38000, Frequency 2595.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	19	0.007	PASS
Normal		-20	23	0.009	
Normal		-10	15	0.006	
Normal		0	-4	-0.002	
Normal		+10	15	0.006	
Normal		+20	13	0.005	
Normal		+30	19	0.007	
Normal		+40	13	0.005	
Normal		+50	15	0.006	
Normal		+55	-11	-0.004	
High	4.445	+20	20	0.008	
BATT.ENDPOINT	3.00	+20	20	0.008	



LTE Band 40-1, 64QAM, Channel 38750, Frequency 2310.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-20	-0.009	PASS
Normal		-20	11	0.005	
Normal		-10	13	0.006	
Normal		0	19	0.008	
Normal		+10	14	0.006	
Normal		+20	1	0.000	
Normal		+30	16	0.007	
Normal		+40	19	0.008	
Normal		+50	19	0.008	
Normal		+55	9	0.004	
High	4.40	+20	13	0.006	
BATT.ENDPOINT	3.00	+20	-18	-0.008	

LTE Band 40-2, 64QAM, Channel 39200, Frequency 2355.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	2	0.001	PASS
Normal		-20	19	0.008	
Normal		-10	18	0.008	
Normal		0	16	0.007	
Normal		+10	20	0.008	
Normal		+20	18	0.008	
Normal		+30	-22	-0.009	
Normal		+40	17	0.007	
Normal		+50	-20	-0.008	
Normal		+55	-10	-0.004	
High	4.40	+20	17	0.007	
BATT.ENDPOINT	3.00	+20	5	0.002	



LTE Band 41, 64QAM, Channel 40620, Frequency 2593.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	19	0.007	PASS
Normal		-20	-9	-0.003	
Normal		-10	16	0.006	
Normal		0	-12	-0.005	
Normal		+10	15	0.006	
Normal		+20	15	0.006	
Normal		+30	-9	-0.003	
Normal		+40	18	0.007	
Normal		+50	14	0.005	
Normal		+55	7	0.003	
High	4.40	+20	13	0.005	
BATT.ENDPOINT	3.00	+20	1	0.000	

2.4. Conducted Spurious Emissions

2.4.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

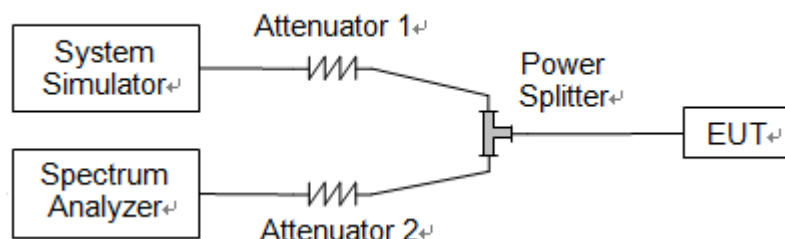
Additional requirement for LTE Band 7/38/41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

Additional requirement for LTE Band 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



2.4.4. Test Result

