

# ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant:	Telit Communications S.p.A. Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste
Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	<ol> <li>Internal Component is different between two model.</li> <li>Capability is different between two model.</li> </ol>
Report Number:	ER/2021/A0030
FCC ID	RI7LN920
IC:	5131A-LN920
Issue Date:	February 9, 2022
Date of Test:	October 6, 2021~January 26, 2022
Date of EUT Received:	October 6, 2021

Men Lay

Approved By

# We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 27C and ISED RSS-Gen, 132, 199.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2021/A0030	00	Original.	February 9, 2022	Susan Lin	

# Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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# **Contents**

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	10
3	SUMMARY OF TEST RESULTS	13
4	DESCRIPTION OF TEST MODES	14
5	MEASUREMENT UNCERTAINTY	17
6	MEASUREMENT EQUIPMENT USED	18
7	MAXIMUM OUTPUT POWER	21
8	OCCUPIED BANDWIDTH MEASUREMENT	34
9	OUT OF BAND EMISSION AT ANTENNA TERMINALS	
10	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	60
11	FREQUENCY STABILITY MEASUREMENT	
12	PEAK TO AVERAGE RATIO	93

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### **GENERAL PRODUCT INFORMATION** 1

### 1.1 **Product Description**

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	<ol> <li>Internal Component is different between two model.</li> <li>Capability is different between two model.</li> </ol>
Hardware Version:	1.0
Firmware Version:	LN920A12-WW: M0L.000001 / LN920A6-WW : M0L.010001
EUT Series No.:	35417570001280
Power Supply:	3.3Vdc
Test Software (Name/Version):	N/A

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### **Operation Frequency Range** 1.2

	LTE Band	5	
BW (MHz)	Operation F	requ	ency (MHz)
1.4	824.7	-	848.3
3	825.5	-	847.5
5	826.5	-	846.5
10	829.0	-	844.0
	LTE Band	7	
BW (MHz)	Operation F	requ	ency (MHz)
5	2502.5	-	2567.5
10	2505.0	-	2565.0
15	2507.5	-	2562.5
20	2510.0	-	2560.0
l	TE Band	38	
BW (MHz)	Operation F	requ	ency (MHz)
5	2572.5	-	2617.5
10	2575.0	-	2615.0
15	2577.5	-	2612.5
20	2580.0	-	2610.0
l	LTE Band	41	
BW (MHz)	Operation F	requ	ency (MHz)
5	2498.5	-	2687.5
10	2501.0	-	2685.0
15	2503.5	-	2682.5
20	2506.0	-	2680.0
LTE I	Band 41 R	SS-	199
BW (MHz)	Operation F	requ	ency (MHz)
5	2502.5	-	2687.5
10	2505.0	-	2685.0
15	2507.5	-	2682.5
20	2510.0	-	2680.0

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# 1.3 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
Note: Transmission freque antenna(s).	encies in this test report are only available by the above

Туре	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
	LTE-Band 5	824	~	849	3.2
Mananala	LTE-Band 7	2500	~	2570	3.12
Monopole	LTE-Band 38	2570	~	2620	3.12
	LTE-Band 41	2496	~	2690	3.12

Note: Antenna information is provided by the applicant.

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# 1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

## 1.4.1 Intra-Band

LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           5B         15         QPSK         24.79         ERP         0.301         13.8270         13M8G7D           5B         15         IGQAM         23.72         ERP         0.236         13.8240         13M8D7W           64QAM         21.79         ERP         0.151         13.8240         13M8D7W           5B         20         16QAM         23.83         ERP         0.242         18.6920         18M7D7W           64QAM         21.62         ERP         0.145         18.790         18M8G7D         3007W           64QAM         21.62         ERP         0.242         18.6920         18M7D7W           CHE         BW         Modulation         ERP / EIRP         0.442         18.6920         18M7D7W           70         30         Modulation         ERP / EIRP         0.443         32.6920         28M4D7W           70         30         Modulation         EIRP         0.483         32.6960         32M7D7W           70         40         GQAM         25.91         EIRP         0.483         32.6960         32M7D7W <th>anu</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	anu							
Band         image: bit for the section of the sectin the section of the sectin of the sectin of the section	LTE	R/W	Modulation			(\\\)	99%	Type of
5B         15         16QAM         23.72         ERP         0.236         13.8370         13M8D7W           64QAM         21.79         ERP         0.151         13.8240         13M8D7W           5B         20         16QAM         23.83         ERP         0.292         18.7970         18M8G7D           5B         20         16QAM         23.83         ERP         0.242         18.6920         18M7D7W           64QAM         21.62         ERP         0.145         18.7390         18M7D7W           64QAM         21.62         ERP         0.145         18.7390         18M7D7W           7C         30         GPSK         27.00         EIRP         0.236         28.4610         28M5G7D           7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           7C         35         16QAM         25.92         EIRP         0.387         32.6700         32M7D7D           7C         35         16QAM         25.88         EIRP         0.483         32.6700         32M7D7W           64QAM         25.91         EIRP         0.486         37.7060         37M7G7D         37M6D7W </td <td>Band</td> <td>DW</td> <td>Wouldtion</td> <td>(**)</td> <td>5570</td> <td>Emission</td>	Band	DW	Wouldtion			(**)	5570	Emission
64QAM         21.79         ERP         0.151         13.8240         13M8D7W           5B         20         16QAM         23.83         ERP         0.292         18.7970         18M8G7D           5B         20         16QAM         23.83         ERP         0.242         18.6920         18M7D7W           64QAM         21.62         ERP         0.145         18.7390         18M7D7W           64QAM         21.62         ERP         0.145         18.7390         18M7D7W           64QAM         23.62         ERP         0.145         18.7390         18M7D7W           7C         30         QPSK         27.00         EIRP         0.501         28.4610         28M5G7D           7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           40         26.84         EIRP         0.483         32.6960         32M7G7D           7C         30         16QAM         25.91         EIRP         0.483         32.700         32M7D7W           64QAM         23.00         EIRP         0.390         37.7060         37M7D7W           7C         40         16QAM         25.38			QPSK	24.79	ERP	0.301	13.8270	13M8G7D
5B         20         QPSK         24.66         ERP         0.292         18.7970         18M8G7D           5B         20         16QAM         23.83         ERP         0.242         18.6920         18M7D7W           64QAM         21.62         ERP         0.145         18.7970         18M8D7D           BM         Modulation         ERP / EIRP         0.145         18.7390         18M7D7W           Type of         ERP         0.145         18.7390         18M7D7W           A         QPSK         27.00         EIRP         0.391         28.4610         28M5G7D           7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.483         32.6960         32M7D7W           7C         35         16QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40<	5B	15	16QAM	23.72	ERP	0.236	13.8370	13M8D7W
5B         20         16QAM         23.83         ERP         0.242         18.6920         18M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         0.145         18.7390         18M7D7W           Type of Emission         ERP / EIRP (dBm)         (W)         99%         Type of Emission           7C         30         I6QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           64QAM         23.73         EIRP         0.483         32.6960         32M7D7W           7C         35         I6QAM         25.88         EIRP         0.483         32.6960         32M7D7W           7C         40         I6QAM         23.70         EIRP         0.489         37.7060         37M7D7W           7C         40         I6QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40         I6QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40         Modulation         ERP / EIRP         0.446         28.3470         <			64QAM	21.79	ERP	0.151	13.8240	13M8D7W
64QAM         21.62         ERP         0.145         18.7390         18M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           7C         30         I6QAM         25.92         EIRP         0.391         28.4610         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           64QAM         23.73         EIRP         0.483         32.6960         32M7G7D           7C         35         I6QAM         25.88         EIRP         0.483         32.6770         32M7D7W           64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           64QAM         23.70         EIRP         0.489         37.7060         37M7G7D           7C         40         I6QAM         25.91         EIRP         0.489         37.7060         37M7D7W           64QAM         24.00         EIRP         0.489         37.7060         37M7D7W           Band         Modulation         ERP / EIRP         0.446         28.3470         28M407W           38C         30         I6QAM         25.38         EIRP			QPSK	24.66	ERP	0.292	18.7970	18M8G7D
LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           7C         30         QPSK         27.00         EIRP         0.501         28.4610         28M5G7D           7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           64QAM         23.73         EIRP         0.483         32.6960         32M7G7D           7C         35         16QAM         25.88         EIRP         0.483         32.6770         32M7D7W           64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           64QAM         23.70         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7D7W           LTE         BW         Modulation         ERP / EIRP         0.446         28.470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.446         28.3470         28M4D7W	5B	20	16QAM	23.83	ERP	0.242	18.6920	18M7D7W
Band         BW         Modulation         (dBm)         (W)         99%         Emission           7C         30         QPSK         27.00         EIRP         0.501         28.4610         28M5G7D           7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7G7D           7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7D7W           64QAM         23.70         EIRP         0.387         32.7190         32M7D7W           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         24.00         EIRP         0.251         37.600         37M7D7W           8         Modulation         ERP / EIRP         0.446         28.3470         28M3G7D         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         3			64QAM	21.62	ERP	0.145	18.7390	18M7D7W
Band         Corr         Corr         Emission           APP         QPSK         27.00         EIRP         0.501         28.4610         28M5G7D           30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           7C         35         16QAM         25.88         EIRP         0.483         32.6960         32M7G7D           7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7D7W           64QAM         23.70         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7D7W           64QAM         24.00         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.446         28.3470         28M3G7D           38C         40         16QAM         25.38         EIRP         0.435         37.7410         37M7D7W           38C         40         16QAM         25.38<	LTE		Madulation	ERP /	EIRP	(14/)	000/	Type of
7C         30         16QAM         25.92         EIRP         0.391         28.4050         28M4D7W           64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           7C         35         16QAM         25.88         EIRP         0.483         32.6960         32M7G7D           7C         35         16QAM         25.88         EIRP         0.483         32.6710         32M7D7W           64QAM         23.70         EIRP         0.234         32.6700         32M7D7W           64QAM         25.91         EIRP         0.489         37.7060         37M7D7W           7C         40         64QAM         24.00         EIRP         0.489         37.600         37M7D7W           64QAM         24.00         EIRP         0.489         37.600         37M7D7W           64QAM         24.00         EIRP         0.489         37.600         37M7D7W           Band         Modulation         EIRP / EIRP (dBm)         (W)         99%         Type of Emission           38C         30         16QAM         23.65         EIRP         0.435         37.7410         37M7D7W           38C         40	Band	DVV	wooulation	(dB	m)	(vv)	99%	Emission
64QAM         23.73         EIRP         0.236         28.3650         28M4D7W           7C         35         QPSK         26.84         EIRP         0.483         32.6960         32M7G7D           7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7D7W           64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           7C         40         64QAM         25.91         EIRP         0.380         37.7060         37M7D7W           7C         40         16QAM         25.91         EIRP         0.390         37.7060         37M7D7W           7C         40         64QAM         24.00         EIRP         0.251         37.690         37M7D7W           64QAM         24.00         EIRP         0.446         28.3470         28M3G7D         36K7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         23.62         EIRP         0.439			QPSK	27.00	EIRP	0.501	28.4610	28M5G7D
7C         35         QPSK         26.84         EIRP         0.483         32.6960         32M7G7D           7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7D7W           64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           7C         40         GQPSK         26.89         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         25.91         EIRP         0.390         37.7060         37M7D7W           64QAM         24.00         EIRP         0.251         37.6690         37M7D7W           64QAM         24.00         EIRP         0.251         37.690         37M7D7W           64QAM         25.38         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W	7C	30	16QAM	25.92	EIRP	0.391	28.4050	28M4D7W
7C         35         16QAM         25.88         EIRP         0.387         32.7190         32M7D7W           64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           7C         40         16QAM         25.91         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         25.91         EIRP         0.390         37.7060         37M7D7W           64QAM         24.00         EIRP         0.251         37.6690         37M7D7W           64QAM         24.00         EIRP         0.251         37.6690         37M7D7W           Band         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M3G7D           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7			64QAM	23.73	EIRP	0.236	28.3650	28M4D7W
64QAM         23.70         EIRP         0.234         32.6770         32M7D7W           APSK         26.89         EIRP         0.489         37.7060         37M7G7D           7C         40         16QAM         25.91         EIRP         0.390         37.7060         37M7D7W           64QAM         24.00         EIRP         0.251         37.6690         37M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         0.251         37.6690         37M7D7W           38C         BW         Modulation         ERP / EIRP (dBm)         0.446         28.3470         28M3G7D           38C         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           38C         40         16QAM         23.65         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W<			QPSK	26.84	EIRP	0.483	32.6960	32M7G7D
7C         40         QPSK 16QAM         26.89         EIRP         0.489         37.7060         37M7G7D           LTE Band         BW         Modulation         EIRP         0.390         37.7060         37M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         0.251         37.6690         37M7D7W           38C         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           38C         30         16QAM         25.38         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           38C         40         16QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         23.62         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         23.62         EIRP         0.345         37.7100         37M7D7W           41C         25 <td>7C</td> <td>35</td> <td>16QAM</td> <td>25.88</td> <td>EIRP</td> <td>0.387</td> <td>32.7190</td> <td>32M7D7W</td>	7C	35	16QAM	25.88	EIRP	0.387	32.7190	32M7D7W
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			64QAM	23.70	EIRP	0.234	32.6770	32M7D7W
$ \begin{array}{ c c c c c c c } \hline \begin{tabular}{ c c c c } \hline \end{tabular}{ c c c c c } \hline \end{tabular}{ c c c c c } \hline \end{tabular}{ c c c c c c } \hline \end{tabular}{ c c c c c c } \hline \end{tabular}{ c c c c c c } \hline \end{tabular}{ c c c c c c } \hline \end{tabular}{ c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c } \hline \end{tabular}{ c c c c c c c c c c } \hline \end{tabular}{ c c c c c c c c c c c } \hline \end{tabular}{ c c c c c c c c c } \hline \end{tabular}{ c c c c c c c c c c c } \hline \end{tabular}{ c c c c c c c c c c c } \hline \end{tabular}{ c c c c c c c c c c c c c c c c c c c$			QPSK	26.89	EIRP	0.489	37.7060	37M7G7D
LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           38C         30         QPSK         26.49         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M3G7D           38C         30         16QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         16QAM         23.62         EIRP         0.230         37.7060         37M7D7W           41C         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           41C         25         Modulation         ERP / EIRP (dBm)         0.479         22.9400         22M9G7D           41C         25         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30	7C	40	16QAM	25.91	EIRP	0.390	37.7060	37M7D7W
Band         BW         Modulation         (dBm)         (W)         99%         Emission           38C         30         QPSK         26.49         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           64QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         I6QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         I6QAM         23.62         EIRP         0.230         37.7060         37M7D7W           38C         40         AQAM         23.62         EIRP         0.230         37.7060         37M7D7W           41C         BW         Modulation         ERP / EIRP (dBm)         0.435         37.7410         37M7D7W           41C         25         I6QAM         26.21         EIRP         0.479         22.9400         22M9G7D           41C         25         I6QAM         26.27         <			64QAM	24.00	EIRP	0.251	37.6690	37M7D7W
Band         BW         Modulation         (dBm)         (W)         99%         Emission           38C         30         QPSK         26.49         EIRP         0.446         28.3470         28M3G7D           38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           64QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         I6QAM         23.62         EIRP         0.439         37.7410         37M7D7W           38C         40         PSK         26.42         EIRP         0.230         37.7060         37M7D7W           40         Modulation         ERP / EIRP         0.435         37.7410         37M7D7W         Emission           41C         25         QPSK         26.80         EIRP         0.479         22.9400         22M9G7D           41C         25         I6QAM         26.21         E	LTE					(W)	99%	Type of
38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           64QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         16QAM         23.62         EIRP         0.230         37.7410         37M7D7W           40         64QAM         23.62         EIRP         0.230         37.7410         37M7D7W           LTE         BW         Modulation         ERP / EIRP         0.230         37.7400         37M7D7W           41C         25         QPSK         26.80         EIRP         0.230         37.7400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.479         22.9400         22M9D7W           41C         30         64QAM         24.20         EIRP         0.418         22.9010         22M9D7W           41C         30         64QAM         23.92         EI	Band	BW	Modulation					• •
38C         30         16QAM         25.38         EIRP         0.345         28.4020         28M4D7W           64QAM         23.65         EIRP         0.232         28.3300         28M3D7W           38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           38C         40         16QAM         23.62         EIRP         0.230         37.7410         37M7D7W           40         64QAM         23.62         EIRP         0.230         37.7410         37M7D7W           40         64QAM         23.62         EIRP         0.230         37.7400         37M7D7W           LTE         BW         Modulation         ERP / EIRP         0.230         37.7400         37M7D7W           41C         25         QPSK         26.80         EIRP         0.479         22.9400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9010         22M9D7W           41C         30         16QAM         25.87         EIRP         0			QPSK	26.49	EIRP	0.446	28.3470	28M3G7D
38C         40         QPSK         26.42         EIRP         0.439         37.6930         37M7D7W           38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           64QAM         23.62         EIRP         0.230         37.7060         37M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           41C         25         QPSK         26.80         EIRP         0.418         22.9400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           41C         25         QPSK         26.73         EIRP         0.418         22.9010         22M9D7W           41C         30         16QAM         25.87         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         16QAM         25.87         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK	38C	30	16QAM	25.38	EIRP	0.345	28.4020	28M4D7W
38C         40         16QAM         25.38         EIRP         0.345         37.7410         37M7D7W           64QAM         23.62         EIRP         0.230         37.7060         37M7D7W           LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           41C         25         QPSK         26.80         EIRP         0.418         22.90400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           41C         25         16QAM         26.21         EIRP         0.418         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         I6QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         I6QAM         23.92         EIRP         0.353         32.6450         32M7G7D           41C         35         QPSK         26.94         EIRP         0.353         32.6450         32M6D7W           41C         40         QPSK			64QAM	23.65	EIRP	0.232	28.3300	28M3D7W
Image: Here and the sector of the s			QPSK	26.42	EIRP	0.439	37.6930	37M7D7W
LTE Band         BW         Modulation         ERP / EIRP (dBm)         (W)         99%         Type of Emission           41C         25         QPSK         26.80         EIRP         0.479         22.9400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           64QAM         24.20         EIRP         0.263         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         16QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         QPSK         26.94         EIRP         0.453         32.6450         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM	38C	40	16QAM	25.38	EIRP	0.345	37.7410	37M7D7W
Band         BW         Modulation         (dBm)         (W)         99%         Emission           41C         25         QPSK         26.80         EIRP         0.479         22.9400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           64QAM         24.20         EIRP         0.263         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         16QAM         25.87         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         I6QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         35         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65			64QAM	23.62	EIRP	0.230	37.7060	37M7D7W
Band         QPSK         26.80         EIRP         0.479         22.9400         22M9G7D           41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           64QAM         24.20         EIRP         0.418         22.9080         22M9D7W           41C         30         QPSK         26.73         EIRP         0.418         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         16QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         I6QAM         25.48         EIRP         0.494         32.6870         32M7G7D           41C         35         I6QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65	LTE	עעם	Madulation	ERP /	EIRP	(111) 000(	Type of	
41C         25         16QAM         26.21         EIRP         0.418         22.9080         22M9D7W           64QAM         24.20         EIRP         0.263         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           41C         30         16QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         35         16QAM         23.58         EIRP         0.228         32.6450         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W	Band	BW	wooulation	(dB	m)	(vv)	99%	Emission
64QAM         24.20         EIRP         0.263         22.9010         22M9D7W           41C         30         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           64QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         I6QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         35         QPSK         26.61         EIRP         0.247         32.6450         32M6D7W           41C         40         QPSK         26.61         EIRP         0.353         32.6450         32M6D7W           41C         40         I6QAM         25.65         EIRP         0.458         37.6560         37M7G7D			QPSK	26.80	EIRP	0.479	22.9400	22M9G7D
41C         QPSK         26.73         EIRP         0.471         28.3890         28M4G7D           41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           64QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         40         23.58         EIRP         0.228         32.6400         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W	41C	25	16QAM	26.21	EIRP	0.418	22.9080	22M9D7W
41C         30         16QAM         25.87         EIRP         0.386         28.3880         28M4D7W           64QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         35         64QAM         23.58         EIRP         0.228         32.6450         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W			64QAM	24.20	EIRP	0.263	22.9010	22M9D7W
64QAM         23.92         EIRP         0.247         28.3130         28M3D7W           41C         35         QPSK         26.94         EIRP <b>0.494</b> 32.6870         32M7G7D           41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           41C         40         64QAM         23.58         EIRP         0.228         32.6400         32M6D7W           41C         40         QPSK         26.61         EIRP <b>0.458</b> 37.6560         37M7G7D			QPSK	26.73	EIRP	0.471	28.3890	28M4G7D
41C         QPSK         26.94         EIRP         0.494         32.6870         32M7G7D           41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           64QAM         23.58         EIRP         0.228         32.6400         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W	41C	30	16QAM	25.87	EIRP	0.386	28.3880	28M4D7W
41C         35         16QAM         25.48         EIRP         0.353         32.6450         32M6D7W           64QAM         23.58         EIRP         0.228         32.6400         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W			64QAM	23.92	EIRP	0.247	28.3130	28M3D7W
64QAM         23.58         EIRP         0.228         32.6400         32M6D7W           41C         40         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W			QPSK	26.94	EIRP	0.494	32.6870	32M7G7D
41C         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W	41C	35	16QAM	25.48	EIRP	0.353	32.6450	32M6D7W
41C         QPSK         26.61         EIRP         0.458         37.6560         37M7G7D           41C         40         16QAM         25.65         EIRP         0.367         37.5840         37M6D7W			64QAM	23.58	EIRP	0.228	32.6400	32M6D7W
			QPSK	26.61	EIRP		37.6560	37M7G7D
64QAM 23.67 EIRP 0.233 37.6630 37M7D7W	41C	40	16QAM	25.65	EIRP	0.367	37.5840	37M6D7W
			64QAM	23.67	EIRP		37.6630	37M7D7W

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Report No.: ER/2021/A0030 Page: 8 of 100



# 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 27C. ISED RSS-132 Issue 3 Jan. 2013 ISED RSS-199 Issue 3 Dec. 2016 ANSI C63.26-2015 KDB971168 D01 Power Meas license Digital System v03r01 KDB412172 D01 Determining ERP and EIRP v01r01

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# 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No.2, Keji 1st Rd., Guishan District,	Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
		Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydan Oly, Talwan 505	Conducted C	_	
		Conducted D	_	
		Conducted E	_	
		Conducted F	_	
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indica-				
tion where	measurements occurred in specif	tic test site and add	dress.	

# 1.7 Special Accessories

No special accessories were used during testing.

# 1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

# 1.9 Radiated Emission Test Sites for Measurements from 9 kHz to 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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### SYSTEM TEST CONFIGURATION 2

### 2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 **Test Procedure**

### 2.3.1 **Conducted Measurement at Antenna Port**

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

### 2.3.2 **Radiated Emissions (ERP/EIRP)**

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

### 2.4 **Measurement Results Explanation Example**

# For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

# Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation in physical test.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)
LB(1GHz below)	4.22	10	14.22
MB(2GHz - 3GHz)	4.83	10	14.83

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# 2.5 Final Amplifier Voltage and Current Information:

# LTE CA Band 5B

Testmode	DC voltage (V)	DC current (mA)
LTE CA Band 5B	3.3	455
10M+10M QPSK	3.3	400

# LTE CA Band 7C

Testmode	DC voltage (V)	DC current (mA)
LTE CA Band 7C	3.3	468
20M+20M QPSK	3.3	400

# LTE CA Band 38C

Testmode	DC voltage (V)	DC current (mA)
LTE CA Band 38C 20M+20M QPSK	3.3	447

# LTE CA Band 41C

Testmode	DC voltage (V)	DC current (mA)	
LTE CA Band 41C	LTE CA Band 41C 3.3		
20M+20M QPSK	5.5	469	

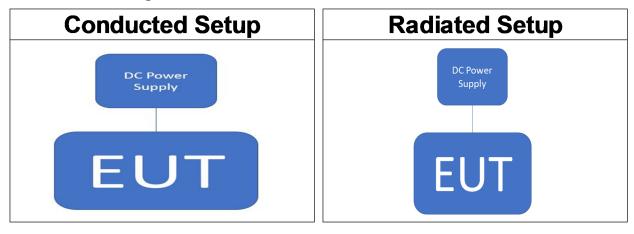
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### 2.6 **Test Configuration**



Note: Radio Communication Analyzer is placed in remote side for radiated test.

### 2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 4									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	Calibration Authority				
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R				

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### SUMMARY OF TEST RESULTS 3

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §27.50(h)(2)	RSS-132 §5.4 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §27.53(m)(4)(6)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §27.53(m)(4)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§27.50(a)(1)(B)	RSS-132 §5.4 RSS-199 §4.4	RSS-132 §5.4 Reak to Average Patio	
§2.1055(a)(1) §22.355 §27.54	RSS-132 §5.3 RSS-199 §4.3	Frequency Stability	Compliant

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### **DESCRIPTION OF TEST MODES** 4

### 4.1 **The Test Channel Details**

This device supports with carrier aggregation (two carrier) uplink. Intra-Band contiguous and Inter-Band non-contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set								
E-UTRA CA configuration	Component carriers in order of in-creasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated band-width [MHz]						
CA_5C	5+10 / 10+5	15						
UA_30	10+10	20						
	10+20 / 20+10 / 15+15	30						
CA_7C	15+20 / 20+15	35						
	20+20	40						
CA 28C	15+15	30						
CA_38C	20+20	40						
	5+20 / 20+5	25						
CA 41C	10+20 / 20+10 / 15+15	30						
CA_41C	15+20 / 20+15	35						
	20+20	40						

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### 4.2 The Worst-CaseTest Modes and Details

- 1. This EUT is UE LTE 4G 1Tx/2Rx device for single carrier that can support uplink Band 5/7/38/41 with uplink carrier aggregation (CA).
- 2. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK results the highest, hence all testing was performed using QPSK modulations to represent the worst case.
- 3. Pre-scanned on the lower, middle and the higher cahnnels of each frequency band for occupied bandwidth, frequency stability, conducted unwanted emission and peak to average ratio measurements, the middle one results in the highest emission which demonstrated in this report.
- 4. Measurements of Band Edge and Emission Mask with the widest and narrowest BW combinations were tested. Combinations of same BW is considered equivalent. The RB combinations were selected as the signal activated closest to the band limit for determining the worst case scenario.
- 5. For Out of Band Emissions: The widest and narrowest RB combinations was tested to determine the worst case senario with combinations generate higher emissions.
- 6. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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### 4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwith, configurations that generates highest output power in standalone transmission have been selected for the final test.

		Te	st Chan	nel		I	Bandwid	th (MHz	)		N	Iodulatic	n			RB #				
Test Items	Band	L	м	н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full		
	5B	٧	v	v	v	v					v	v	v				v	v		
Max. Output	7C	v	v	v				٧	٧	v	v	v	v				v	v		
Power	38C	v	v	v				٧		v	v	v	v				v	v		
	41C	v	v	v			v	٧	٧	v	v	v	v				v	v		
_	5B		v			v					v							v		
Freqency	7C		v							v	v							v		
Stability	38C		v							v	v							v		
	41C		v							v	v							v		
		Te	st Chan	nel			Bandwid	th (MHz	)		N	lodulatio	n			RB #				
Test Items	Band	L	М	н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full		
26dB and	5B		v		v	v					v	v	v					v		
99%	7C		v					v	v	v	v	v	v					v		
Bandwidth	38C		v					v		v	v	v	v					v		
	41C		v				v	v	v	v	v	v	v					v		
	5B		v		v	v					v	v						v		
Peak-to-Av	7C		v					v	v	v	v	v						v		
erage Ratio	38C		v					v		v	v	v						v		
	41C		v				V	V	V	V			v	-				v		
		Te	Test Channel				Bandwid	andwidth (MHz)				(MHz)		Modulation			r	RB #		
Test Items	Band	L	м	н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full		
Band Edge	5B	v		v	v	v					v				v	v	Ť	v		
												•				•				
		Te	st Chan	nel			Bandwid	th (MHz	)		N	lodulatio	n			RB #				
Test Items	Band	L	м	н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full		
	7C	v		v				v		v	v				v	v		v		
Mask	38C	v		v				v		v	v				v	v		v		
	41C	V		v					V	v	v				v	v		v		
		-								_						<b>DD</b> "				
Test Items	Band	le	st Chan	nel			3andwid	tn (MHz	)			lodulatio		Edge left :	Edgelatt	RB #	Edao rinkt i			
Test Items	вапо	L	М	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full		
	5B	v	v	v	v	v					v						v			
Conducted	7C	v	v	v				v		v	v						v			
Emission	38C	v	v	v				v		v	v						v			
	41C	v	v	v					v	v	v						v			
		Te	st Chan	nel			Bandwid	th (MHz	)		N	Iodulatio	n			RB #				

#### 7C Emission 38C v v 41C

Band

5B

н

v

v

Μ

v

v

н

v

v

٧

v

**Radiated Emission** 

Test Items

Radiated

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block	Allocation
		(11112)		RBs allocated	RB Start
5C	Low, Mid, High	5_10	QPSK	1/24_1/0	
7C	Low, Mid, High	20_10	QPSK	1/99_1/0	
38C	Low, Mid, High	15_15	QPSK	1/74_1/0	
41C	Low, Mid, High	20_15	QPSK	1/99_1/0	

QPSK

v

v

v

v

40

35

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Edge left + Edge right + Edge right +

Edge right

Full

Edae left

v

v

v

v

Edge left +

Edge right

Edge left

64QAM

16QAM



### **MEASUREMENT UNCERTAINTY** 5

Test Items	Und	certair	nty
RF Power Output	+/-	1	dB
ERP/ EIRP measurement	+/-	3	dB
	+/-	3	dB
Emission Bandwidth	+/-	1.53	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	1.68	dB
Peak to Average Ratio	+/-	1	dB
Frequency Stability vs. Temperature	+/-	1.53	Hz
Frequency Stability vs. Voltage	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty								
	+/-	2.57	dB	9kHz~30MHz				
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz				
	+/-	4.45	dB	1GHz - 18GHz				
	+/-	4.24	dB	18GHz - 40GHz				
	+/-	2.57	dB	9kHz~30MHz				
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz				
Polarization. Horizontai	+/-	4.45	dB	1GHz - 18GHz				
	+/-	4.24	dB	18GHz - 40GHz				

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### **MEASUREMENT EQUIPMENT USED** 6

### 6.1 **Conducted Measurement**

	Conducted Emission Test Site: Conducted 4										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022						
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022						
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R						
Temperature Chamber	Giant Force	GTH-150-40-CP- AR	MAA0512-018	05/19/2021	05/18/2022						
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/18/2021	09/17/2022						
Attenuator	Mini-Circuit	BW-S10W2+	2	12/14/2021	12/13/2022						
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021						
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021						
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022						
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021						
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/14/2021	12/13/2022						

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### 6.2 **Radiated Measurement**

Radiated Emission Test Site: SAC 1									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Bi-log Antenna	SCHWARZBECK	VULB9168	300	11/18/2020	11/17/2021				
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/18/2021	05/17/2022				
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021				
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022				
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021				
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/17/2020	12/16/2021				
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT- N0555	01/13/2021	01/12/2022				
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2020	10/25/2022				
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022				
Radio Communication Analyer	Anritsu	MT8821C	6262044751	10/27/2021	10/26/2022				
DC Power Supply	Agilent	E3640A	MY40005907	10/12/2021	10/11/2022				
Pre-Amplifier	<b>EMC</b> Instruments	EMC184045B	980135	10/27/2021	10/26/2022				
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021				
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021				
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021				
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021				
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021				
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/16/2020	12/15/2021				
1.3G-15GHz High Pass Filter	WI	WHKX10-1066- 80SS	19	04/20/2021	04/19/2022				
3.1GHz High Pass Filter	WI	WFIL-H3100- 18000F-01	WRGBAFWC2B6	01/06/2021	01/05/2022				
High Pass Filter	WI	WHKX4.0/18G- 10SS	WHKX4.0/18G- 10SS	12/16/2020	12/15/2021				
High Pass Filter	WI	WHKX6.0/18G- 10SS	WHKX6.0/18G- 10SS	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	EMC 104-SM- SM-2000	160123	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021				
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021				

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# Report No.: ER/2021/A0030 Page: 20 of 100

Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

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# 7 MAXIMUM OUTPUT POWER

# 7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

# 7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

# FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

# FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

# RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

# RSS-199 §4.4

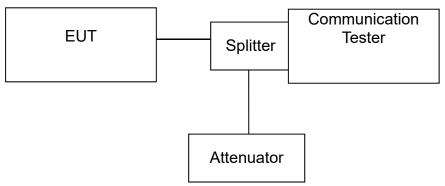
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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### 7.2 **Test Set-up**



Note: Measurement setup for testing on Antenna connector

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### 7.3 **Output Power Measurement Applicable Guideance**

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

### Determining ERP and/or EIRP from conducted RF output power measurements 7.4

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_c$ ERP= EIRP-2.15, Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
  - $P_{\tau}$  = transmitter output power, expressed in dBW, dBm, or PSD;
  - $G_{\tau}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
  - = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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### 7.5 LTE Measurement Results:

#### 7.5.1 Intra-Band

Part 22 / RSS	132_ERP	Limit (W)	7	]		ווחדו									
Antenna Gai	n		3.2		<u> </u>	JIPU	I POW		URLI	E BAN	D 9 (91		<u>10MHz)</u>		
	D	c	90	:C1		F	209	S	CC1	(	Conducte	d	EIRP	ERP	ERP
Bandwidth	F V				Modulation		RB	F	RB	Av	erage (dE	3m)	Average	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
	20428	826.8	20500	834.0	QPSK	1	24	1	0	20.71	21.93	23.74	26.94	24.79	0.301
	20420	020.0	20500	034.0	QFON	25	0	50	0	18.44	18.48	21.44	24.64	22.49	0.177
5MHz+	20478	831.8	20550	839.0	QPSK	1	24	1	0	20.61	21.76	23.63	26.83	24.68	0.294
10MHz	20410	001.0	20000	000.0	QUON	25	0	50	0	18.53	18.53	21.51	24.71	22.56	0.180
	20528	836.8	20600	844.0	QPSK	1	24	1	0	20.52	21.56	23.53	26.73	24.58	0.287
						25	0	50	0	18.34	18.48	21.39	24.59	22.44	0.175
	20428	826.8	20500	834.0	16QAM	1	24	1	0	19.43	20.39	22.45	25.65	23.50	0.224
						25	0	50	0	17.33	17.51	20.41	23.61	21.46	0.140
5MHz+	20478	831.8	20550	839.0	16QAM	1	24	1	0	19.37	20.49	22.40	25.60	23.45	0.221
10MHz	20410	001.0	20000	000.0	1000/101	25	0	50	0	17.58	17.51	20.53	23.73	21.58	0.144
	20528	836.8	20600	844.0	16QAM	1	24	1	0	19.39	20.42	22.39	25.59	23.44	0.221
	20520	030.0	20000	044.0	TUQAW	25	0	50	0	17.32	17.28	20.28	23.48	21.33	0.136
	20428	826.8	20500	834.0	64QAM	1	24	1	0	17.42	18.41	20.43	23.63	21.48	0.141
	20420	020.0	20500	034.0	04QAW	25	0	50	0	17.44	17.58	20.50	23.70	21.55	0.143
5MHz+	20478	831.8	20550	839.0	64QAM	1	24	1	0	17.46	18.64	20.49	23.69	21.54	0.143
10MHz	20470	031.0	20550	039.0	64QAW	25	0	50	0	17.52	17.50	20.49	23.69	21.54	0.143
	00500	000.0	00000	044.0		1	24	1	0	17.08	19.00	20.57	23.77	21.62	0.145
	20528	836.8	20600	844.0	64QAM	25	0	50	0	17.33	17.35	20.32	23.52	21.37	0.137
Part 22 / RSS	132 ERP	Limit (W)	7											1	
Antenna Gai	 n	. ,	3.2	1	<u> </u>	JTPU	t pon	/ER F	OR LT	E BAN	<u>D 5 (10</u>	)MHz +	5MHz)		
						PCC		SCC1		Conduc			EIRP	ERP	ERP
Bandwidth	PCC		SCC1		Modulation	RB		RB		ted			Average	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
10MHz+	20450	829.0	20522	836.2	QPSK	1	49	1	0	21.68	20.39	23.46	26.66	24.51	0.282
						50	0	25	0	18.64	18.45	21.53	24.73	22.58	0.181
	20500	834.0	20572	841.2	QPSK	1	49	1	0	21.51	20.47	23.47	26.67	24.52	0.283
						50	0	25	0	18.51	18.40	21.43	24.63	22.48	0.177
	20550	839.0	20622	846.2	QPSK	1	49	1	0	21.14	21.00	23.57	26.77	24.62	0.290
						50	0	25	0	18.36	18.36	21.35	24.55	22.40	0.174
10MHz+	20450	829.0	20522	836.2	16QAM	1	49	1	0	20.85	19.66	22.67	25.87	23.72	0.236
						50	0	25	0	17.60	17.42	20.51	23.71	21.56	0.143
	20500	834.0	20572	841.2	16QAM	1	49	1	0	20.63	19.18	22.22	25.42	23.27	0.212
						50	0	25	0	17.68	17.41	20.53	23.73	21.58	0.144
	20550	839.0	20622	846.2	16QAM	1	49	1	0	20.76	19.34	22.35	25.55	23.40	0.219
				<u> </u>		50	0	25	0	17.48	17.30	20.37	23.57	21.42	0.139
10MHz+	20450	829.0	20522	836.2	64QAM	1	49	1	0	18.86	17.72	20.74	23.94	21.79	0.151
			1			50	0	25	0	17.51	17.47	20.49	23.69	21.54	0.143
	20500	834.0	20572	841.2	64QAM	1	49	1	0	18.73	17.55	20.57	23.77	21.62	0.145
			20012		U. 3/101	50	0	25	0	17.67	17.35	20.49	23.69	21.52	0.143
	20550	839.0	20622	846.2	64QAM	1	49	1	0	18.42	17.28	20.30	23.50	21.35	0.140
	20000	000.0	20022	0-10.2		50	43	25	0	17.51	17.41	20.30	23.63	21.33	0.130
1		1	1	1	1	50	0	20		16.11	17.41	20.43	20.00	21.40	U.141

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# Report No.: ER/2021/A0030 Page: 25 of 100

	rt 22 / RSS 132_ERP Limit (W) 7					יוחד							400411-			
Antenna Gai	n		3.2		<u>00</u>	IPU	I POW	EK F		E BAN	D 5 (10	WHZ +	10MHz	2		
<b>D</b>	500		0004			PCC		SCC1		Condu	c		EIF	RP	ERP	ERP
Bandwidth	PCC		SCC1		Modulation	RB		RB		ted			Aver	age	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	t Size	Offset	PCC	SCC1	Total	(dB	m)	(dBm)	(W)
10MHz+	20450	829.0	20549	838.9	QPSK	1	49	1	0	21.09	20.05	23.61	26.8	31	24.66	0.292
						50	0	50	0	18.43	18.48	21.47	24.6	67	22.52	0.179
	20476	831.6	20575	841.5	QPSK	1	49	1	0	20.64	20.56	23.61	26.8	31	24.66	0.292
						50	0	50	0	18.48	18.46	21.48	24.6		22.53	0.179
	20501	834.1	20600	844.0	QPSK	1	49	1	0	20.56	20.58	23.58	26.7		24.63	0.290
						50	0	50	0	18.35	18.45	21.41	24.6		22.46	0.176
10MHz+	20450	829.0	20549	838.9	16QAM	1	49	1	0	19.43	19.41	22.43	25.6		23.48	0.223
						50	0	50	0	17.50	17.43	20.47	23.6		21.52	0.142
	20476	831.6	20575	841.5	16QAM	1	49	1	0	18.80	19.79	22.34	25.5		23.39	0.218
						50	0	50	0	17.55	17.47	20.52	23.7		21.57	0.144
	20501	834.1	20600	844.0	16QAM	1	49	1	0	19.81	19.73	22.78	25.9		23.83	0.242
						50	0	50	0	17.55	17.32	20.45	23.6		21.50	0.141
10MHz+	20450	829.0	20549	838.9	64QAM	1	49	1	0	17.53	17.52	20.55	23.7		21.60	0.145
						50	0	50	0	17.59	17.53	20.57	23.7		21.62	0.145
	20476	831.6	20575	841.5	64QAM	1	49	1	0	17.52	17.50	20.52	23.7	72	21.57	0.144
						50	0	50	0	17.59	17.37	20.49	23.6	69	21.54	0.143
	20501	834.1	20600	844.0	64QAM	1	49	1	0	17.36	17.34	20.36	23.5	56	21.41	0.138
						50	0	50	0	17.53	17.40	20.48	23.6	68	21.53	0.142
Part 27 / RSS	rt 27 / RSS 199_ EIRP Limit (W)		<b>)</b> 2				ידווח			пітг		7 (40	MII	20141	I_\	
Antenna Ga	in		3.12			00	PUT	PUW		KLIC	DAIND		MHz +		12)	
		200		SCC1			PC	C	SCO	C1	C	onducte	d	E	IRP	EIRP
Bandwidth				3001	Modula	tion	RE	3	RE	в	Ave	erage (dE	3m)	Ave	erage	Average
	Earfcn	MHz	Earfci	n MH:	Z		Size	Offset	Size	Offset	PCC	SCC1	Total	(d	Bm)	(W)
	00005	0505.5	0004	0.0540	0 0.001	,	1	49	1	0	20.43	22.4.	23.41	26	6.53	0.450
	20805	2505.5	20949	9 2519	.9 QPSł	< -	50	0	100	0	18.47	18.58	21.51	24	1.63	0.290
10MHz+							1	49	1	0	20.30	22.38	23.32	26	6.44	0.441
20MHz	21006	2525.6	21150	2540	.0 QPSł	< -	50	0	100	0	18.47	18.61	21.53		1.65	0.292
			-				1	49	1	0	20.78	22.78	23.81		5.93	0.493
	21206	2545.6	21350	2560	.0 QPSł	< -	50	0	100	0	18.57	18.68	21.61		4.73	0.297
			-	_			1	49	100	0	19.63	21.67	22.66		5.78	0.237
	20805	2505.5	20949	9 2519	.9 16QAI	М –	50	-		-						
40141-			_					0	100	0	17.48	17.57	20.51		3.63	0.231
10MHz+	21006	2525.6	21150	2540	.0 16QA	м	1	49	1	0	19.27	21.42	22.33		5.45	0.351
20MHz							50	0	100	0	17.49	17.61	20.53		3.65	0.232
	21206	2545.6	21350	2560	.0 16QA	мL	1	49	1	0	19.59	21.56	22.56		5.68	0.370
							50	0	100	0	17.62	17.47	20.53	23	3.65	0.232
	20805	2505.5	20949	9 2519	.9 64QA	м	1	49	1	0	17.36	19.37	20.38	23	3.50	0.224
	20003	2000.0	20343			v1	50	0	100	0	17.42	17.55	20.47	23	3.59	0.229
10MHz+	21000	2525.0	2145	0 2540	0 6404		1	49	1	0	17.49	19.57	20.50	23	3.62	0.230
20MHz	21006	2525.6	21150	2540	.0 64QAI	VI	50	0	100	0	17.50	17.60	20.53	23	3.65	0.232
	04000	0545.0	0405				1	49	1	0	17.41	19.30	20.43	23	3.55	0.226
	21206	2545.6	21350	2560	.0 64QAI	VI	50	0	100	0	17.59	17.59	20.57		3.69	0.234
	1							-		-						

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Part 27 / RSS 199\_ EIRP Limit (W)

Antonno Gois

# OUTPUT POWER FOR LTE BAND 7 (15MHz + 15MHz)

Antenna Gai	ntenna Gain				<u>00</u>	IFU	FUW			DANL	51 (15			
	D	cc	60	C1		F	209	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth	FV.	50	30	UI	Modulation		RB		RB	Av	erage (dl	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz	1	Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20825	2507.5	20975	2522.5	QPSK	1	74	1	0	20.59	20.66	23.64	26.76	0.474
	20025	2507.5	20975	2022.0	QFOR	75	0	75	0	18.40	18.42	21.42	24.54	0.284
15MHz+	21025	2527.5	21175	2542.5	QPSK	1	74	1	0	20.65	20.64	23.65	26.77	0.475
15MHz	21025	2527.5	21175	2042.0	QFOR	75	0	75	0	18.44	18.42	21.44	24.56	0.286
	21225	2547.5	21375	2562.5	QPSK	1	74	1	0	20.60	20.57	23.59	26.71	0.469
	21225	2047.0	21070	2002.0	QION	75	0	75	0	18.58	18.54	21.57	24.69	0.294
	20825	2507.5	20975	2522.5	16QAM	1	74	1	0	19.67	19.64	22.66	25.78	0.378
	20020	2007.0	20070	2022.0	TOQAM	75	0	75	0	17.53	17.52	20.53	23.65	0.232
15MHz+	21025	2527.5	21175	2542.5	16QAM	1	74	1	0	19.69	19.68	22.70	25.82	0.382
15MHz	21025	2021.0	21175	2042.0	TOQAM	75	0	75	0	17.48	17.55	20.53	23.65	0.232
	21225	2547.5	21375	2562.5	16QAM	1	74	1	0	19.42	19.39	22.41	25.53	0.357
	21225	2047.0	210/0	2002.0	TOQAM	75	0	75	0	17.63	17.60	20.62	23.74	0.237
	20825	2507.5	20975	2522.5	64QAM	1	74	1	0	17.54	17.53	20.55	23.67	0.233
	20020	2007.0	20010	2022.0	0+Q/IM	75	0	75	0	17.51	17.51	20.52	23.64	0.231
15MHz+	21025	2527.5	21175	2542.5	64QAM	1	74	1	0	17.40	17.40	20.41	23.53	0.225
15MHz	21025	2021.0	21175	2042.0	0+Q/IM	75	0	75	0	17.49	17.28	20.40	23.52	0.225
	21225	2547.5	21375	2562.5	64QAM	1	74	1	0	17.41	17.37	20.40	23.52	0.225
	21225	2047.0	21070	2002.0	0+Q/III	75	0	75	0	17.62	17.59	20.61	23.73	0.236
Part 27 / RSS		P Limit (W)	2			דו וסד			זד ו סר		7 /15	MH2 + '	20MHz)	
Antenna Gai	n		3.12		<u></u>								<u> </u>	
	P	cc	sc	C1			209		CC1		Conducte		EIRP	EIRP
Bandwidth					Modulation		RB		RB		erage (dl	-	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20828	2507.8	20999	2524.9	QPSK	1	74	1	0	20.43	20.45	23.45	26.57	0.454
						75	0	100	0	18.46	18.49	21.48	24.60	0.288
15MHz+	21003	2525.3	21174	2542.4	QPSK	1	74	1	0	20.61	20.64	23.64	26.76	0.474
20MHz						75	0	100	0	18.48	18.57	21.54	24.66	0.292
	21179	2542.9	21350	2560.0	QPSK	1	74	1	0	20.65	20.77	23.72	<b>26.84</b>	0.483
						75 1	0 74	100	0	18.57	18.62	21.60	24.72	0.296
	20828	2507.8	20999	2524.9	16QAM				0	19.52	19.53	22.53	25.65	0.367
15MHz+						75	0	100	0	17.51	17.51	20.52	23.64	0.231
20MHz	21003	2525.3	21174	2542.4	16QAM	1 75	74 0	1	0	19.74	17.76	22.76	25.88	0.387
ZUIVITIZ							-	100	-	17.44	17.63	20.55	23.67	0.233
	21179	2542.9	21350	2560.0	16QAM	1 75	74 0	1 100	0	19.53 17.62	19.56 17.48	22.55 20.56	25.67 23.68	0.369
						75 1	74	100	0	17.62	17.48	20.56	23.68	0.233
	20828	2507.8	20999	2524.9	64QAM	75	0	100	0	17.45	17.50	20.51	23.63	0.231
15MHz+						75 1	74	100	0	17.49	17.31	20.51	23.63	0.231
20MHz	21003	2525.3	21174	2542.4	64QAM	75	0	100	0	17.34	17.63	20.36	23.48	0.223
						75 1	74	100	0	17.43	17.58	20.54	23.00 23.70	0.232
	21179	2542.9	21350	2560.0	64QAM	75	0	100	0	17.57	17.58	20.58	23.70	0.234
		1	1		1	15	0	100	U	CC. 11	17.34	20.00	23.07	0.200

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Part 27 / RSS 199\_ EIRP Limit (W)

Antenna Gair

# OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

Antenna Gai	ntenna Gain				<u>00</u>	IFU	FOW				J 1 (20	VIIIZ '		
	D	c	sc	C1		P	000	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth	гv		30		Modulation	1	RB		RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20850	2510.0	20994	2524.4	QPSK	1	99	1	0	22.24	20.26	23.25	26.37	0.434
	20030	2510.0	20994	2024.4	QFOR	100	0	50	0	18.20	17.58	20.88	24.00	0.251
20MHz+	21051	2530.1	21195	2544.5	QPSK	1	99	1	0	22.72	20.85	23.88	27.00	0.501
10MHz	21031	2330.1	21195	2044.0	QFOR	100	0	50	0	17.99	17.75	20.85	23.97	0.249
	21251	2550.1	21395	2564.5	QPSK	1	99	1	0	22.27	20.48	23.52	26.64	0.461
	21251	2000.1	21000	2004.0	QION	100	0	50	0	18.48	17.49	21.01	24.13	0.259
	20850	2510.0	20994	2524.4	16QAM	1	99	1	0	21.66	19.61	22.66	25.78	0.378
	20030	2010.0	20334	2324.4	IUQAM	100	0	50	0	17.23	16.64	19.64	22.76	0.189
20MHz+	21051	2530.1	21195	2544.5	16QAM	1	99	1	0	21.59	19.72	22.70	25.82	0.382
10MHz	21001	2000.1	21135	2044.0	IUQAM	100	0	50	0	17.12	16.98	20.04	23.16	0.207
	21251	2550.1	21395	2564.5	16QAM	1	99	1	0	21.94	19.74	22.80	25.92	0.391
	21251	2000.1	21000	2004.0	IUQAM	100	0	50	0	17.62	16.69	20.17	23.29	0.213
	20850	2510.0	20994	2524.4	64QAM	1	99	1	0	19.21	17.29	20.28	23.40	0.219
	20030	2010.0	20334	2324.4		100	0	50	0	17.36	16.77	20.07	23.19	0.208
20MHz+	21051	2530.1	21195	2544.5	64QAM	1	99	1	0	19.04	17.16	20.19	23.31	0.214
10MHz	21031	2330.1	21195	2044.0	04QAM	100	0	50	0	17.28	17.09	20.17	23.29	0.213
	21251	2550.1	21395	2564.5	64QAM	1	99	1	0	18.93	17.09	20.09	23.21	0.209
	21231	2330.1	21393	2304.3	04QAM	100	0	50	0	17.91	16.94	20.44	23.56	0.227
Part 27 / RSS	199_EIRF	Limit (W)	2			רווסד					7 (20	МЦ⇒ ⊥	15MHz)	
Antenna Gai	n		3.12		<u></u>						57 (20			
	P	cc	sc	C1			200		CC1		Conducte		EIRP	EIRP
Bandwidth					Modulation		RB		RB		verage (d		Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20850	2510.0	21021	2527.1	QPSK	1	99	1	0	20.69	20.69	23.70	26.82	0.481
001411						100	0	75	0	18.35	18.48	21.43	24.55	0.285
20MHz+	21026	2527.6	21197	2544.7	QPSK	1	99	1	0	20.48	20.45	23.47	26.59	0.456
15MHz						100	0	75	0	18.53	18.62	21.58	24.70	0.295
	21201	2545.1	21372	2562.2	QPSK	1	99	1	0	20.10	20.06	23.09	26.21	0.418
						100	0	75	0	18.64	18.59	21.63	24.75	0.299
	20850	2510.0	21021	2527.1	16QAM	1	99	1	0	19.44	19.43	22.44	25.56	0.360
						100	0	75	0	17.34	17.48	20.42	23.54	0.226
20MHz+	21026	2527.6	21197	2544.7	16QAM	1	99	1	0	19.53	19.50	22.52	25.64	0.366
15MHz						100	0	75	0	17.49	17.59	20.55	23.67	0.233
	21201	2545.1	21372	2562.2	16QAM	1	99	1	0	19.51	19.55	22.54	25.66	0.368
			<u> </u>			100	0	75	0	17.62	17.58	20.61	23.73	0.236
	20850	2510.0	21021	2527.1	64QAM	1	99	1	0	17.34	17.32	20.34	23.46	0.222
						100	0	75	0	17.40	17.54	20.48	23.60	0.229
20MHz+	21026	2527.6	21197	2544.7	64QAM	1	99	1	0	17.59	17.54	20.58	23.70	0.234
15MHz						100	0	75	0	17.50	17.55	20.54	23.66	0.232
	21201	2545.1	21372	2562.2	64QAM	1	99	1	0	17.26	17.24	20.26	23.38	0.218
		1	1			100	0	75	0	17.54	17.52	20.54	23.66	0.232

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台灣檢驗科技股份有限公司

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Part 27 / RSS 199\_ EIRP Limit (W)

#### OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz) Antenna Gain 3.12 Conducted PCC SCC1 EIRP EIRP PCC SCC1 Bandwidth Modulation RR RR Average (dBm) Average Average MHz MHz Earfcn Earfcn Size Offset Size Offset PCC SCC1 Total (dBm) (W) 20.76 23.77 26.89 0.489 1 99 1 0 20.76 20850 2510.0 21048 2529.8 QPSK 100 0 100 0 18.41 18.49 21.46 24.58 0.287 20MHz+ 1 99 1 0 20.70 23.72 26.84 0.483 21001 2525 1 21199 2544 9 OPSK 20MHz 100 0 100 0 18.55 18.63 21.60 24.72 0.296 1 99 1 0 23.57 26.69 0.467 21152 2540.2 21350 QPSK 2560.0 100 100 0.303 0 0 18.68 18.69 21.69 24.81 99 22.24 25.36 1 1 0 19.23 19.23 0.344 20850 2510.0 21048 2529.8 16QAM 100 0 100 0 17.37 17.45 20.42 23.54 0.226 20MHz+ 1 99 1 0 19.32 19.32 22.33 25.45 0.351 21001 2525.1 21199 2544.9 16QAM 20MHz 100 0 100 20.54 23.66 0.232 0 17.43 17.62 1 99 1 0 19.80 19.76 22.79 25.91 0.390 21152 2540.2 21350 2560.0 16QAM 100 100 20.73 23.85 0.243 0 0 17.71 17.73 1 99 1 0 17.82 17.92 20.88 24.00 0.251 20850 2510.0 21048 2529.8 64QAM 100 0 100 0 17.44 20.41 23.53 0.225 17.37 20MHz+ 1 99 1 0 17.77 17.76 20.77 23.89 0.245 21001 2525.1 21199 2544.9 64QAM 20MHz 100 0 100 17.64 23.73 0.236 0 17.57 20.61 1 99 1 0 17.51 17.46 20.50 23.62 0.230 21152 2540.2 21350 2560.0 64QAM 100 0 100 0 17.67 20.67 23.79 0.239 Part 27 / RSS 199\_ EIRP Limit (W) 2 OUTPUT POWER FOR LTE BAND 38 (15MHz + 15MHz) Antenna Gain 3.12 PCC SCC1 Conducted EIRP EIRP SCC1 PCC Bandwidth Modulation RB RB Average (dBm) Average Average Earfcn MHz Earfcn MHz Size Offset Size Offset PCC SCC1 Total (dBm) (W) 74 0 20.27 20.34 23.32 26.44 0 4 4 1 1 1 37825 2577.5 37975 2592.5 QPSK 0.282 75 0 75 18 38 21.39 24 51 0 18.38 15MHz+ 1 74 1 0 20.28 20.32 23.31 2643 0 4 4 0 37925 2587.5 38075 2602.5 **QPSK** 15MHz 75 0 75 0 18.37 18.42 21.41 24.53 0.284 1 74 1 0 20.36 20.37 23.37 26.49 0.446 38025 2597.5 38175 2612.5 QPSK 75 0 75 21.42 0.284 0 18.40 18.41 24 54 1 74 1 0 19.27 19.23 22.26 25.38 0.345 37825 2577.5 37975 2592.5 16QAM 75 0 75 0 17.40 20.40 23.52 0.225 15MHz+ 74 0 22.26 0.345 19.27 25.38 1 1 38075 37925 2587 5 2602.5 16QAM 15MHz 75 0 75 0 17.50 17.43 20.47 23.59 0.229 74 0 22.23 25.35 0.343 1 1 19.22 19.23 38025 2597.5 38175 2612.5 16QAM 75 0 75 17.49 17.51 20.51 23.63 0.231 74 0 20.29 23.41 0.219 1 1 17.26 37825 2577.5 37975 2592.5 64QAM 75 0 75 0 17.42 17.43 20.43 23.55 0.226 15MHz+ 74 0 17.20 17.24 20.23 23.35 0.216 1 1 37925 2587.5 38075 2602.5 64QAM 15MHz 20.51 75 0 75 0 17.48 17.53 23.63 0.231 74 0 17.52 20.53 23.65 0.232 1 1 17.52 38025 2597.5 38175 2612.5 64QAM 75 0 75 0 17.50 17 52 20.52 23.64 0.231

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Part 27 / RSS 199\_ EIRP Limit (W)

# OUTPUT POWER FOR LTE RAND 38 (20MHz + 20MHz)

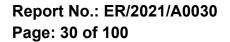
Antenna Gai	n		3.12		00		POWE	RFC		BANL	38 (20	MHZ +	<u>20MHz)</u>	
	D	c	50	C1		F	200	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth	гч		30		Modulation		RB	I	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	37850	2580.0	38048	2599.8	QPSK	1	99	1	0	20.24	20.29	23.28	26.40	0.437
	57050	2000.0	00040	2000.0	QION	100	0	100	0	18.41	18.38	21.41	24.53	0.284
20MHz+	37901	2585.1	38099	2604.9	QPSK	1	99	1	0	20.27	20.30	23.30	26.42	0.439
20MHz	0/001	2000.1	00000	2004.5	QION	100	0	100	0	18.45	18.46	21.46	24.58	0.287
	37952	2590.2	38150	2610.0	QPSK	1	99	1	0	20.31	20.25	23.29	26.41	0.438
	01002	2000.2	00100	2010.0		100	0	100	0	18.46	18.51	21.49	24.61	0.289
	37850	2580.0	38048	2599.8	16QAM	1	99	1	0	19.16	19.22	22.20	25.32	0.340
	01000	2000.0	00040	2000.0	1000/101	100	0	100	0	17.41	17.49	20.46	23.58	0.228
20MHz+	37901	2585.1	38099	2604.9	16QAM	1	99	1	0	19.23	19.27	22.26	25.38	0.345
20MHz	01001	2000.1	00000	2004.0	1000/101	100	0	100	0	17.36	17.38	20.38	23.50	0.224
	37952	2590.2	38150	2610.0	16QAM	1	99	1	0	19.13	19.19	22.17	25.29	0.338
	01002	2000.2	00100	2010.0	1000/101	100	0	100	0	17.42	17.47	20.45	23.57	0.228
	37850	2580.0	38048	2599.8	64QAM	1	99	1	0	17.20	17.25	20.23	23.35	0.216
	0,000	2000.0	00010	2000.0	01001	100	0	100	0	17.47	17.45	20.47	23.59	0.229
20MHz+	37901	2585.1	38099	2604.9	64QAM	1	99	1	0	17.22	17.25	20.25	23.37	0.217
20MHz	01001	2000.1	00000	2004.0	0400100	100	0	100	0	17.48	17.51	20.50	23.62	0.230
	37952	2590.2	38150	2610.0	64QAM	1	99	1	0	17.27	17.32	20.31	23.43	0.220
			00100	2010.0	0400100	100	0	100	0	17.40	17.46	20.44	23.56	0.227
Part 27 / RSS		Limit (W)	2			יו וסד					א <i>ו</i> א ר	MH코ㅗ	20MHz)	
Antenna Gai	n		3.12		00									
	P	c	sc	C1			220		CC1		Conducte		EIRP	EIRP
Bandwidth					Modulation		RB		RB		erage (dE		Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	23.47	23.49	23.50	26.62	0.459
-						25	0	100	0	18.19	18.82	21.24	24.36	0.273
5MHz+	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	20.38	23.39	23.40	26.52	0.449
20MHz						25	0	100	0	18.30	18.91	21.34	24.46	0.279
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	20.37	23.34	23.34	26.46	0.443
						25	0	100	0	18.41	18.98	21.43	24.55	0.285
	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	19.13	22.14	22.15	25.27	0.337
<b>5</b> 1411						25	0	100	0	17.23	17.83	20.29	23.41	0.219
5MHz+	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.34	22.36	22.36	25.48	0.353
20MHz						25	0	100	0	17.34	17.92	20.39	23.51	0.224
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	19.34	22.36	22.36	25.48	0.353
						25	0	100	0	17.41	17.95	20.44	23.56	0.227
	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	17.24	20.25	20.25	23.37	0.217
						25	0	100	0	17.16	17.76	20.23	23.35	0.216
5MHz+	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	17.44	20.46	20.46	23.58	0.228
20MHz						25	0	100	0	17.37	17.87	20.40	23.52	0.225
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	17.15	20.16	20.16	23.28	0.213
						25	0	100	0	17.37	17.91	20.42	23.54	0.226

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A materia and a	199_EIRP	Limit (W)	2			тлит					44 /40		20141-1	
Antenna Gai	n		3.12		001	PUI	PUWE	K FU	KLIE	DANU	41 (10		<u>20MHz)</u>	
	PC	c	so	C1			200		CC1	C	Conducte	d	EIRP	EIRP
Bandwidth				-	Modulation		RB		RB		erage (dE	-	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	20.56	22.45	23.60	26.72	0.470
						50	0	100	0	18.34	18.49	21.40	24.52	0.283
10MHz+	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.20	22.25	23.22	26.34	0.431
20MHz						50	0	100	0	18.34	18.41	21.36	24.48	0.281
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	20.48	22.35	23.50	26.62	0.459
						50	0	100	0	18.46	18.53	21.48	24.60	0.288
	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.19	21.26	22.23	25.35	0.343
10141						50	0	100	0	17.37	17.50	20.42	23.54	0.226
10MHz+	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	19.31	21.36	22.34	25.46	0.352
20MHz						50	0	100	0	17.36	17.51	20.42	23.54	0.226
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	19.36	21.35	22.34	25.46	0.352
						50	0	100	0	17.47	17.53	20.49	23.61	0.230
	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	17.32	19.34	20.36	23.48	0.223
40141-						50	0	100	0	17.36	17.49	20.41	23.53	0.225
10MHz+	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	17.06	19.05	20.07	23.19	0.208
20MHz						50	0	100	0	17.39	17.46	20.41	23.53	0.225
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	17.09	19.09	20.11	23.23	0.210
						50	0	100	0	17.41	17.49	20.44	23.56	0.227
Part 27 / RSS Antenna Gai		Limit (W)	2 3.12		OUT	PUT	POWE	R FC	RITE	RAND	41 (15	MH7 +	15MHz)	
Antenna Gan	n		3.17							DAILD				
			0											
Bandwidth	PC	c		C1	Modulation	P	200	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth			so		Modulation	P	PCC RB	S	CC1 RB	C Av	Conducte erage (dE	d 3m)	EIRP Average	Average
Bandwidth	Earfcn	MHz	SC Earfcn	MHz		F Size	PCC RB Offset	Size	CC1 RB Offset	C Av PCC	Conducte erage (dE SCC1	d 3m) Total	EIRP Average (dBm)	Average (W)
Bandwidth			so		<b>Modulation</b> QPSK	P I Size	PCC RB Offset 74	Size	CC1 RB Offset	<b>Av</b> <b>PCC</b> 20.62	Conducte erage (dE SCC1 20.58	d 3m) Total 23.61	EIRP Average (dBm) 26.73	Average (W) 0.471
	Earfcn 39725	MHz 2503.5	SC Earfcn 39875	<b>MHz</b> 2518.5	QPSK	P Size 1 75	PCC RB Offset 74 0	<b>Size</b> 1 75	CC1 RB Offset 0 0	<b>C</b> Av PCC 20.62 18.34	Conducte erage (dE SCC1 20.58 18.36	d 3m) 7otal 23.61 21.36	EIRP Average (dBm) 26.73 24.48	Average (W) 0.471 0.281
15MHz+	Earfcn	MHz	SC Earfcn	MHz		<b>F</b> <b>Size</b> 1 75 1	PCC RB Offset 74 0 74	<b>Size</b> 1 75 1	CC1 RB Offset 0 0 0	<b>PCC</b> 20.62 18.34 20.34	Conducte erage (dE SCC1 20.58 18.36 20.44	d 3m) 23.61 21.36 23.40	EIRP Average (dBm) 26.73 24.48 26.52	Average (W) 0.471 0.281 0.449
	Earfcn 39725 40545	MHz 2503.5 2585.5	<b>Earfcn</b> 39875 40695	MHz 2518.5 2600.5	QPSK QPSK	<b>Size</b> 1 75 1 75	CC RB 0ffset 74 0 74 0 74	<b>Size</b> 1 75 1 75	CC1 RB Offset 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30	Conducte erage (dE 20.58 18.36 20.44 18.40	d 3m) 7otal 23.61 21.36 23.40 21.36	EIRP Average (dBm) 26.73 24.48 26.52 24.48	Average (W) 0.471 0.281 0.449 0.281
15MHz+	Earfcn 39725	MHz 2503.5	SC Earfcn 39875	<b>MHz</b> 2518.5	QPSK	<b>Size</b> 1 75 1 75 1	PCC RB Offset 74 0 74	<b>Size</b> 1 75 1 75 1	CC1 RB Offset 0 0 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30 20.50	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49	d 3m) 23.61 21.36 23.40 21.36 23.51	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63	Average (W) 0.471 0.281 0.449 0.281 0.281
15MHz+	Earfcn 39725 40545 41365	MHz 2503.5 2585.5 2667.5	<b>Earfcn</b> 39875 40695 41515	MHz 2518.5 2600.5 2682.5	QPSK QPSK QPSK	<b>Size</b> 1 75 1 75	CC RB 0ffset 74 0 74 0 74	<b>Size</b> 1 75 1 75	CC1 RB Offset 0 0 0 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30 20.50 18.41	Conducte erage (dE 20.58 18.36 20.44 18.40	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51	Average           (W)           0.471           0.281           0.449           0.281           0.460           0.282
15MHz+	Earfcn 39725 40545	MHz 2503.5 2585.5	<b>Earfcn</b> 39875 40695	MHz 2518.5 2600.5	QPSK QPSK	<b>Size</b> 1 75 1 75 1 75 1	CC RB 0ffset 74 0 74 0 74 0	<b>Size</b> 1 75 1 75 1 75 1	CC1 RB 0 0 0 0 0 0 0 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30 20.50 18.41 19.21	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346
15MHz+	Earfcn 39725 40545 41365 39725	MHz 2503.5 2585.5 2667.5 2503.5	<b>Earfcn</b> 39875 40695 41515 39875	MHz           2518.5           2600.5           2682.5           2518.5	QPSK QPSK QPSK 16QAM	<b>Size</b> 1 75 1 75 1 75	<b>PCC</b> <b>RB</b> <b>Offset</b> 74 0 74 0 74 0 74 0 74	<b>Size</b> 1 75 1 75 1 75	CC1 RB 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225
15MHz+ 15MHz	Earfcn 39725 40545 41365	MHz 2503.5 2585.5 2667.5	<b>Earfcn</b> 39875 40695 41515	MHz 2518.5 2600.5 2682.5	QPSK QPSK QPSK	<b>Size</b> 1 75 1 75 1 75 1 75 1 75	<b>Offset</b> 74 0 74 0 74 0 74 0 74 0	Size 1 75 1 75 1 75 1 75 1 75	CC1 RB 0 0 0 0 0 0 0 0 0 0 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30 20.50 18.41 19.21	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225 0.356
15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725 40545	MHz 2503.5 2585.5 2667.5 2503.5 2585.5	<b>Earfcn</b> 39875 40695 41515 39875 40695	MHz 2518.5 2600.5 2682.5 2518.5 2600.5	QPSK QPSK QPSK 16QAM 16QAM	<b>Size</b> 1 75 1 75 1 75 1 75 1 75 1	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1 75 1 75 1 75 1 75 1 75 1	CC1 RB 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225
15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725	MHz 2503.5 2585.5 2667.5 2503.5	<b>Earfcn</b> 39875 40695 41515 39875	MHz           2518.5           2600.5           2682.5           2518.5	QPSK QPSK QPSK 16QAM	F Size 1 75 1 75 1 75 1 75 1 75 1 75	PCC RB 74 0 74 0 74 0 74 0 74 0 74 0	Size 1 75 1 75 1 75 1 75 1 75 1 75	CC1 RB 0ffset 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225 0.356 0.226
15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725 40545 41365	MHz 2503.5 2585.5 2667.5 2503.5 2585.5 2667.5	<b>Earfcn</b> 39875 40695 41515 39875 40695 41515	MHz 2518.5 2600.5 2682.5 2518.5 2600.5 2682.5	QPSK QPSK QPSK 16QAM 16QAM	F Size 1 75 1 75 1 75 1 75 1 75 1 75 1	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1 75 1 75 1 75 1 75 1 75 1	CC1 RB 0ffset 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40 19.39	Conducte erage (dE SCC1 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42 19.41	d 3m) 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42 20.42 22.41	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54 25.53	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225 0.356 0.226 0.357
15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725 40545	MHz 2503.5 2585.5 2667.5 2503.5 2585.5	<b>Earfcn</b> 39875 40695 41515 39875 40695	MHz 2518.5 2600.5 2682.5 2518.5 2600.5	QPSK QPSK QPSK 16QAM 16QAM	<b>Size</b> 1 75 1 75 1 75 1 75 1 75 1 75	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 75 5 1	CC1 RB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>PCC</b> 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40 19.39 17.44	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42 19.41 17.39	d 3m) 23.61 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42 22.41 20.42	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54 25.53 23.54	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225 0.356 0.226 0.357 0.226 0.325
15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725 40545 41365 39725	MHz 2503.5 2585.5 2667.5 2503.5 2585.5 2667.5 2503.5	<b>Earfcn</b> 39875 40695 41515 39875 40695 41515 39875	MHz 2518.5 2600.5 2682.5 2518.5 2600.5 2682.5 2518.5	QPSK QPSK QPSK 16QAM 16QAM 16QAM 64QAM	<b>Size</b> 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1	CC1 RB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40 19.39 17.44 17.39	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42 19.41 17.39 17.39	d 3m) Total 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42 22.41 20.42 20.42 20.42	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54 25.53 23.54 23.54 23.54	Average (W) 0.471 0.281 0.449 0.281 0.460 0.282 0.346 0.225 0.356 0.225 0.356 0.226
15MHz+ 15MHz 15MHz+ 15MHz	Earfcn 39725 40545 41365 39725 40545 41365	MHz 2503.5 2585.5 2667.5 2503.5 2585.5 2667.5	<b>Earfcn</b> 39875 40695 41515 39875 40695 41515	MHz 2518.5 2600.5 2682.5 2518.5 2600.5 2682.5	QPSK QPSK QPSK 16QAM 16QAM	<b>Size</b> 1 75 1 75 1 75 1 75 1 75 1 75 1 75	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 7	CC1 RB 0ffset 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 20.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40 19.39 17.44 17.39 17.36	Conducte erage (dE SCC1 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42 19.41 17.39 17.39 17.38	d 3m) Total 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42 22.41 20.42 20.40 22.41 20.42 20.40 20.42	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54 25.53 23.54 23.54 23.54 23.52 23.50	Average           (W)           0.471           0.281           0.449           0.282           0.346           0.225           0.356           0.226           0.357           0.225           0.326
15MHz+ 15MHz 15MHz+ 15MHz 15MHz+	Earfcn 39725 40545 41365 39725 40545 41365 39725	MHz 2503.5 2585.5 2667.5 2503.5 2585.5 2667.5 2503.5	<b>Earfcn</b> 39875 40695 41515 39875 40695 41515 39875	MHz 2518.5 2600.5 2682.5 2518.5 2600.5 2682.5 2518.5	QPSK QPSK QPSK 16QAM 16QAM 16QAM 64QAM	<b>Size</b> 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 7	Offset           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74           0           74	Size 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 7	CC1 RB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C Av PCC 20.62 18.34 18.30 20.50 18.41 19.21 17.38 19.37 17.40 19.39 17.44 17.39 17.44 17.39 17.36 17.47	Conducte erage (dE 20.58 18.36 20.44 18.40 20.49 18.36 19.30 17.40 19.38 17.42 19.41 17.39 17.39 17.38 17.08	d 3m) Total 23.61 21.36 23.40 21.36 23.51 21.39 22.27 20.40 22.39 20.42 20.42 20.42 20.40 20.38 20.29	EIRP Average (dBm) 26.73 24.48 26.52 24.48 26.63 24.51 25.39 23.52 25.51 23.54 25.53 23.54 23.54 23.54 23.52 23.50 23.41	Average           (W)           0.471           0.281           0.449           0.281           0.460           0.282           0.346           0.225           0.356           0.226           0.357           0.226           0.225           0.226

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SGS Taiwan Ltd.

f (886-2) 2298-0488

OUTPUT POWER FOR LTE BAND 41 (15MHz + 20MHz)



Part 27 / RSS 199\_ EIRP Limit (W)

Antenna Gain

Bandwidth

15MHz+

20MHz

15MHz+

20MHz

15MHz+

20MHz

Bandwidth

20MHz+

5MHz

20MHz+

5MHz

20MHz+

5MHz

40595

41440

39750

40595

41440

2590 5

2675.0

2506.0

2590.5

2675.0

41557

39867

40712

41557

2

3.12

#### Conducted PCC SCC1 EIRP EIRP PCC SCC1 Modulation RR RR Average (dBm) Average Average MHz MHz Earfcn Earfcn Size Offset Size Offset PCC SCC1 Total (dBm) (W) 20.14 23.14 26.26 0.423 1 74 1 0 20.12 39728 2503.8 39899 2520.9 QPSK 75 0 100 0 18.32 18.33 21.34 24.46 0.279 1 74 1 0 20.40 20.45 2344 26.56 0.453 40523 2583.3 40694 2600.4 OPSK 75 0 100 0 18.38 18.45 21.42 24.54 0.284 1 74 1 0 23.32 26.44 0.441 41319 2662.9 41490 QPSK 2680.0 75 100 0 0 18.42 18.38 21.41 24.53 0.284 22.21 25.33 1 74 1 0 19.18 19.21 0.341 39728 2503.8 39899 2520.9 16QAM 75 0 100 0 17.35 17.40 20.39 23.51 0.224 1 74 1 0 19.35 19.31 22.34 25.46 0.352 40523 2583.3 40694 2600.4 16QAM 23.58 75 0 100 20.46 0.228 0 17 41 17.48 1 74 1 0 19.32 19.37 22.35 25.47 0.352 41319 2662.9 41490 2680.0 16QAM 75 100 20.45 23.57 0.228 0 0 17.46 17.42 1 74 1 0 17.42 17.47 20.46 23.58 0.228 39728 2503.8 39899 2520.9 64QAM 75 0 100 0 17.39 17.34 20.38 23.50 0.224 1 74 1 0 17.04 17.08 20.07 23.19 0.208 40523 2583.3 40694 2600.4 64QAM 0.226 75 0 100 17.43 17.39 20.42 23.54 0 1 74 1 0 17.10 20.13 23.25 0.211 41319 2662.9 41490 2680.0 64QAM 75 0 100 0 17.46 17.41 20.44 23.56 0.227 Part 27 / RSS 199\_ EIRP Limit (W) 2 OUTPUT POWER FOR LTE BAND 41 (20MHz + 5MHz) Antenna Gain 3.12 PCC SCC1 Conducted EIRP EIRP SCC1 PCC Modulation RB RB Average (dBm) Average Average Earfcn MHz Earfcn MHz Size Offset Size Offset PCC SCC1 Total (dBm) (W) 99 0 23.19 20.21 23.19 26.31 0.428 1 1 39750 2506.0 39867 2517.7 QPSK 100 0.279 25 18.83 21.34 24 46 0 0 18.36 99 1 1 0 23.33 20.32 23.33 26.45 0 4 4 2 40595 2590.5 40712 2602.2 **QPSK** 100 0 25 0 18.93 18.38 21.41 24.53 0.284 99 1 0 23.68 20.66 23.68 26.80 0.479 1 41440 2675.0 41557 2686.7 QPSK 100 0 25 21.50 0.290 0 19.03 18.47 24 62 1 99 1 0 22.71 19.68 22.72 25.84 0.384 39750 2506.0 39867 2517.7 16QAM 100 0 25 0 17.80 17.34 20.33 23.45 0.221 99 0 22.63 25.75 0.376 22.63 1 1 40712

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2602.2

2686.7

2517.7

2602.2

2686.7

16QAM

16QAM

64QAM

64QAM

64QAM

100

1

100

1

100

1

100

1

100

0

99

0

99

0

99

0

99

0

25

1

25

1

25

1

25

1

25

0

0

0

0

0

0

0

0

17.88

23.09

18.59

20.05

17.85

20.59

17.81

20.16

18.58

17.43

20.12

18.05

17.03

17.42

17.51

17.45

17.14

18.07

20.42

23.09

21.09

20.05

20.38

20.59

20.41

20.16

21.08

23.54

26.21

24.21

23.17

23.50

23.71

23.53

23.28

24.20

0.226

0.418

0.264

0.207

0.224

0.235

0.225

0.213

0.263

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488



Part 27 / RSS 199\_ EIRP Limit (W)

Antenna Gain

#### 3.12 Conducted PCC SCC1 EIRP EIRP PCC SCC1 Bandwidth Modulation RB RR Average (dBm) Average Average MHz MHz Earfcn Earfcn Size Offset Size Offset PCC SCC1 Total (dBm) (W) 20.15 23.13 26.25 0.422 1 99 1 0 22.15 39750 2506.0 39894 2520.4 **QPSK** 100 0 50 0 18.47 18.39 21.41 24.53 0.284 20MHz+ 22.36 1 99 1 0 20.26 23 29 26.41 0.438 40571 2588 1 40715 2602 5 OPSK 10MHz 100 0 50 0 18.44 18.47 21.44 24.56 0.286 1 99 1 0 22.31 23.28 26.40 0.437 41391 2670.1 41535 QPSK 2684.5 100 50 0.292 0 18.59 18.51 24.65 0 21.53 99 22.75 25.87 1 1 0 21.68 19.76 0.386 39750 2506.0 39894 2520.4 16QAM 100 0 50 0 17.45 17.40 20.41 23.53 0.225 20MHz+ 1 99 1 0 21.55 19.59 22.62 25.74 0.375 40571 2588.1 40715 2602.5 16QAM 10MHz 100 0 50 20.48 23.60 0.229 0 17.52 17.48 1 99 1 0 19.70 22.70 25.82 0.382 21.63 41391 2670.1 41535 2684.5 16QAM 100 50 20.91 24.03 0.253 0 0 17.95 17.90 1 99 1 0 19.00 17.03 20.05 23.17 0.207 39750 39894 2506.0 2520.4 64QAM 100 0 50 0 17.40 20.38 23.50 0.224 17.38 20MHz+ 1 99 1 0 19.03 17.13 20.10 23.22 0.210 40571 2588.1 40715 2602.5 64QAM 10MHz 0.225 100 0 50 17.44 23.52 0 17.39 20.40 1 99 1 0 19.08 20.14 23.26 0.212 41391 2670.1 41535 2684.5 64QAM 100 0 50 0 17.79 17.83 20.80 23.92 0.247 Part 27 / RSS 199\_ EIRP Limit (W) 2 OUTPUT POWER FOR LTE BAND 41 (20MHz + 15MHz) Antenna Gain 3.12 PCC SCC1 Conducted EIRP EIRP PCC SCC1 Bandwidth Modulation RR RR Average (dBm) Average Average Earfcn MHz Earfcn MHz Size Offset Size Offset PCC SCC1 Total (dBm) (W) 20.79 20.83 23.82 26.94 0.494 99 0 1 1 39750 2506.0 39921 2523.1 **QPSK** 100 0.280 0 75 0 18.34 18.34 21.35 24.47 20MH7+ 99 1 0 20.17 20.22 23.21 26.33 0.430 1 40546 2585.6 40717 2602.7 QPSK 15MHz 100 0 75 0 18.35 18.36 21.37 24.49 0.281 23.50 99 20.50 20.47 26.62 0.459 1 0 1 41341 2665.1 41512 2682.2 QPSK 100 0 75 0 18.54 18.60 21.58 24.70 0.295 1 99 1 0 19.2 19.24 22.23 25.35 0.343 39750 2506.0 39921 2523.1 16QAM 100 0 75 0 17.34 17.34 20.35 23 47 0 222 20MHz+ 99 1 0 19.29 19.34 22.33 25.45 0.351 1 40546 2585.6 40717 2602.7 16QAM 15MHz 100 0 75 0 17.42 17.42 20.43 23.55 0.226 99 19.32 22.36 0.353 1 1 0 19.39 25.48 41341 2665.1 41512 2682.2 16QAM 100 20.48 23.60 0.229 0 75 0 17.50 17.45 99 17.32 20.35 23.47 0.222 1 1 0 17.36 39750 2506.0 39921 2523.1 64QAM

OUTPUT POWER FOR LTE BAND 41 (20MHz + 10MHz)

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2602.7

2682.2

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100

1

100

1

100

64QAM

64QAM

0

99

0

99

0

75

1

75

1

75

0

0

0

0

0

17.36

17.09

17.37

17.16

17.40

台灣檢驗科技股份有限公司

20MHz+

15MHz

40546

41341

2585.6

2665.1

40717

41512

t (886-2) 2299-3279

f (886-2) 2298-0488

17 27

17.04

17.40

17.36

20.33

20.08

20.40

20.16

20.39

23.45

23.20

23.52

23.28

23.51

0.221

0.209

0.225

0.213

0.224

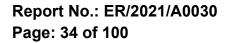


#### Part 27 / RSS 199\_EIRP Limit (W) 2 OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz) Antenna Gain 3.12 SCC1 PCC Conducted EIRP EIRP PCC SCC1 Bandwidth Modulation RB RB Average (dBm) Average Average MHz Earfcn MHz Earfcn Size Offset Size Offset PCC SCC1 Total (dBm) (W) 99 0 20.24 20.21 23.23 26.35 0.432 QPSK 39750 2506.0 39948 2525.8 100 100 0 18.25 18.35 21.31 24.43 0.277 0 1 20MHz+ 99 23.49 0 20.44 20.53 26.61 0.458 1 40521 2583.1 40719 2602.9 **QPSK** 20MHz 100 0 100 0 18.39 18.37 21.39 24.51 0.282 1 99 1 0 20.33 20.33 23.34 26.46 0.443 41292 2660.2 41490 2680.0 QPSK 100 100 0 0 18.43 18.45 21.45 24.57 0.286 1 99 1 0 19.25 19.34 22.30 25.42 0.348 39750 2506.0 39948 2525.8 16QAM 100 0 100 0 17.30 17.34 20.33 23.45 0.221 20MHz+ 0 22.48 25.60 0.363 1 99 1 19.46 19.47 40521 2583.1 40719 2602.9 16QAM 20MHz 100 0 100 0 17.39 17.38 20.40 23.52 0.225 99 0 19.51 19.53 22.53 25.65 0.367 1 1 41292 2660.2 41490 2680.0 16QAM 100 0 100 0 17.44 17.45 20.45 23.57 0.228 0.222 1 99 1 0 17.28 17.37 20.34 23.46 39750 2506.0 39948 2525.8 64QAM 100 0 100 0 17.27 17.31 20.30 23.42 0.220 20MHz+ 1 99 1 0 17.07 17.08 20.09 23.21 0.209 40521 2583.1 40719 2602.9 64QAM 100 20MHz 0 100 0 17.34 17.42 20.39 23.51 0.224 0.233 1 99 1 0 17.56 17.53 20.55 23.67 41292 2660.2 41490 2680.0 64QAM 100 0 100 0 17.43 17.44 20.45 23.57 0.228

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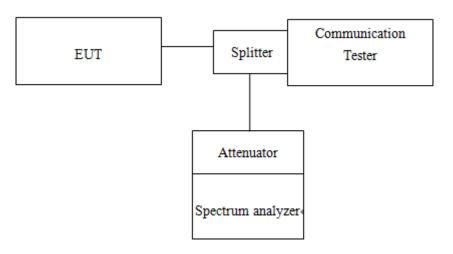


# 8 OCCUPIED BANDWIDTH MEASUREMENT

# 8.1 Standard Applicable

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.

# 8.2 Test Set-up



# 8.3 Measurement Procedure

# 99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

# 99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about  $1\% \sim 5\%$  of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW=  $1\% \sim 5\%$ , VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

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# 8.4 Measurement Result

## LTE BAND 5

Band	Bandwidth	RB Allocation/RB	Freqency		99% BW (MHz)			26 dB BW (MHz)	
	Offse		(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 5	5MHz + 10MHz	25/0 + 50/0	836.5	13.827	13.796	13.824	14.58	14.6	14.6
LTE BAND 5	10MHz + 5MHz	50/0 + 25/0	836.5	13.819	13.837	13.768	14.59	14.6	14.54
LTE BAND 5	10MHz + 10MHz	50/0 + 50/0	836.5	18.797	18.692	18.739	19.77	19.5	19.82

### LTE BAND 7

Band	Bandwidth	RB Allocation/RB	Freqency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 7	10MHz+20MHz	50/0 + 100/0	2535.0	27.779	27.794	27.787	29.39	29.38	29.33
LTE BAND 7	20MHz+10MHz	100/0 + 50/0	2535.0	27.822	27.788	27.785	29.59	29.4	29.56
LTE BAND 7	15MHz + 15MHz	75/0 + 75/0	2535.0	28.461	28.405	28.365	30.16	30.06	30.15
LTE BAND 7	15MHz + 20MHz	75/0 + 100/0	2535.0	32.682	32.719	32.677	34.57	34.59	34.48
LTE BAND 7	20MHz + 15MHz	100/0 + 75/0	2535.0	32.696	32.653	32.668	34.65	34.57	34.63
LTE BAND 7	20MHz+20MHz	100/0 + 100/0	2535.0	37.706	37.706	37.669	40.05	40.08	43.75

### LTE BAND 38

Band	Bandwidth	RB Allocation/RB	Freqency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 38	15MHz+15MHz	75/0 + 75/0	2595.0	28.347	28.402	28.33	30.06	30.01	30.05
LTE BAND 38	20MHz + 20MHz	100/0 + 100/0	2595.0	37.693	37.741	37.706	39.82	39.87	40.62

### LTE BAND 41

Band	Bandwidth	RB Allocation/RB	Freqency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 41	5MHz + 20MHz	25/0 + 100/0	2593.0	22.94	22.894	22.9	24.03	24.11	24.02
LTE BAND 41	20MHz+5MHz	100/0 + 25/0	2593.0	22.921	22.908	22.901	24.22	24.13	24.06
LTE BAND 41	10MHz + 20MHz	50/0 + 100/0	2593.0	27.793	27.790	27.748	29.41	29.38	29.34
LTE BAND 41	20MHz+10MHz	100/0 + 50/0	2593.0	27.829	27.816	27.771	29.33	29.34	29.45
LTE BAND 41	15MHz + 15MHz	75/0 + 75/0	2593.0	28.389	28.388	28.313	30.03	29.97	30.13
LTE BAND 41	15MHz + 20MHz	75/0 + 100/0	2593.0	32.687	32.638	32.636	34.63	34.63	34.41
LTE BAND 41	20MHz + 15MHz	100/0 + 75/0	2593.0	32.683	32.645	32.64	34.51	34.71	34.74
LTE BAND 41	20MHz+20MHz	100/0 + 100/0	2593.0	37.656	37.584	37.663	39.76	39.86	39.66

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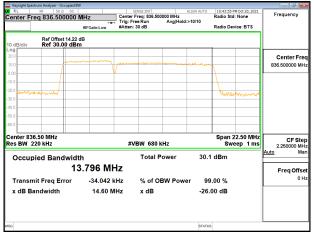
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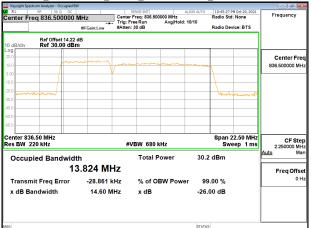
### Band5\_5MHz+10MHz\_QPSK\_RB25-0+RB50-0\_CH20478+CH20550

	m Analyzer - Occupied Bi	v						- 8 ×
	RE 50 Q DC	MHz	SENSE: Center Freq:	836.500000 M	ALIGN AUTO	10:47:00 PM Radio Std:	Oct 20, 2021 None	Frequency
	030.300000	#IFGain:Low		in Avg	Hold:>10/10	Radio Devi	ce: BTS	
10 dB/div	Ref Offset 14.22 Ref 30.00 dBr					_		
20.0								Center Freq
10.0				- Marine Carlos	- warment	-		836.500000 MHz
-10.0								
20.0	Washingt					human		
-30.0								
-40.0								
-60.0								
Center 836.						Snop 21	2.50 MHz	
Res BW 220			#VBW	680 kHz			ep 1 ms	CF Step 2.250000 MHz
Occupie	ed Bandwidt	h	т	otal Powe	r 31	.0 dBm		<u>Auto</u> Man
	13	3.827 MH	Iz					Freq Offset
Transmit	Freq Error	-15.982 k	Hz %	of OBW F	ower 9	99.00 %		0 Hz
x dB Ban	dwidth	14.58 M	Hz x	dB	-20	6.00 dB		
MSG					STAT	rus		L

### Band5\_5MHz+10MHz\_16QAM\_RB25-0+RB50-0\_CH20478+CH20550



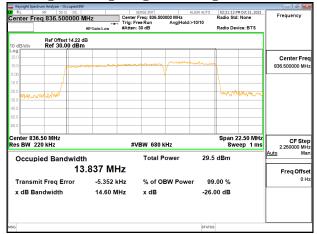
### Band5\_5MHz+10MHz\_64QAM\_RB25-0+RB50-0\_CH20478+CH20550



### Band5\_10MHz+5MHz\_QPSK\_RB50-0+RB25-0\_CH20500+CH20572

Keysight Spectrum Analyzer - Occupied Bit	V			- a -
RL RF 50 Q DC Center Freq 836.500000	Mil- Conto	SENSE:INT ALI r Freq: 836.500000 MHz	GN AUTO 02:20:42 PM Oct 21, 202 Radio Std: None	1 Frequency
	Trig: I	Free Run Avg Hold: 1 n: 30 dB		
Ref Offset 14.22 0 dB/div Ref 30.00 dBr				
20.0		. manual		Center Fre
10.0	and the second second	hourself		836.500000 MH
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0.0 manage Monned			montemple	
0.0				
10				
0.0				
enter 836.50 MHz			Span 22.50 MH	
es BW 220 kHz	#	VBW 680 kHz	Sweep 1 m	2.250000 Mi
Occupied Bandwidt	h	Total Power	30.4 dBm	Auto Ma
13	3.819 MHz			Freq Offs
Transmit Freq Error	26.665 kHz	% of OBW Power	99.00 %	01
x dB Bandwidth	14.59 MHz	x dB	-26.00 dB	
G			STATUS	1

Band5\_10MHz+5MHz\_16QAM\_RB50-0+RB25-0\_CH20500+CH20572





RL	trum Analyzer - Occupied 8W RF 50 Ω DC DC 836.500000 №	Hz Centr Trig:	SENSE:INT ALIGN AUTO		02:21:58 PM Oct 21, 2021 Radio Std: None Radio Device: BTS	Frequency
0 dB/div	Ref Offset 14.22 dB div Ref 30.00 dBm					
og 20.0 10.0	/\\/''\\	1	man	maharanana	n	Center Fr 836.500000 M
0.0	whom				hold have the when	
0.0						
enter 836 es BW 2		4	≇VBW 680 kHz		Span 22.50 MHz Sweep 1 ms	CF St 2.250000 M
Occup	ied Bandwidtl 13	n .768 MHz	Total Power 29.9		9 dBm	Auto M
	it Freq Error Indwidth	21.609 kHz 14.54 MHz	% of OBW F x dB		9.00 % .00 dB	0
50				STATU		

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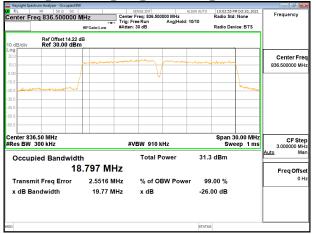
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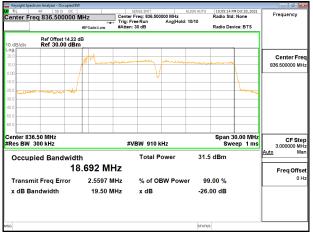
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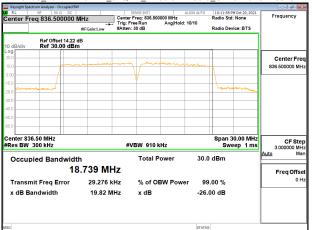
Band5\_10MHz+10MHz\_QPSK\_RB50-0+RB50-0\_CH20476+CH20575

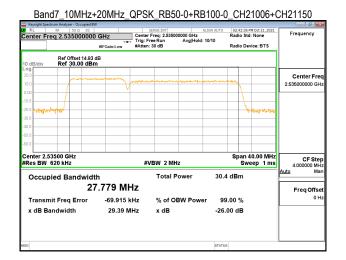


Band5\_10MHz+10MHz\_16QAM\_RB50-0+RB50-0\_CH20476+CH20575

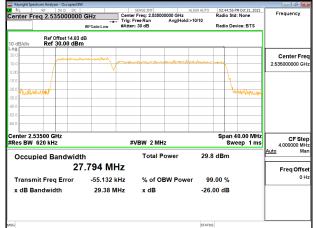


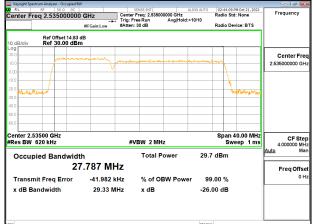
### Band5\_10MHz+10MHz\_64QAM\_RB50-0+RB50-0\_CH20476+CH20575





Band7\_10MHz+20MHz\_16QAM\_RB50-0+RB100-0\_CH21006+CH21150





Band7\_10MHz+20MHz\_64QAM\_RB50-0+RB100-0\_CH21006+CH21150

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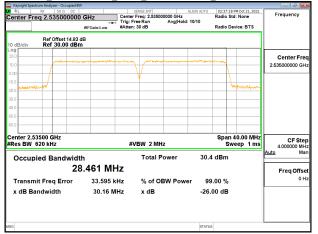
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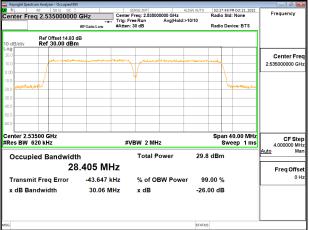
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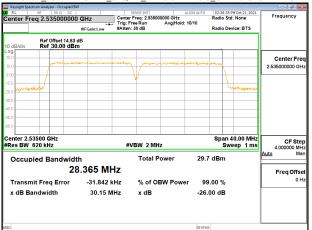
Band7\_15MHz+15MHz\_QPSK\_RB75-0+RB75-0\_CH21025+CH21175

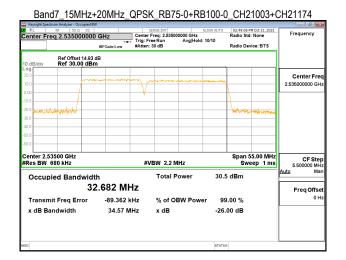


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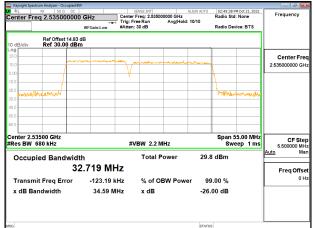


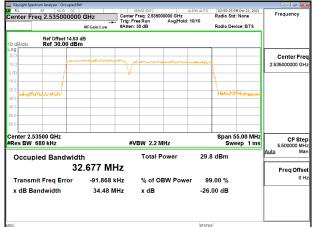
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Band7\_15MHz+20MHz\_16QAM\_RB75-0+RB100-0\_CH21003+CH21174





Band7\_15MHz+20MHz\_64QAM\_RB75-0+RB100-0\_CH21003+CH21174

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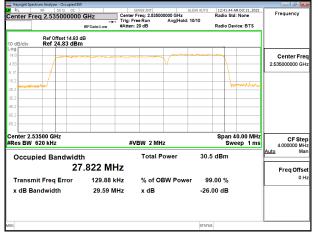
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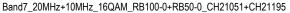
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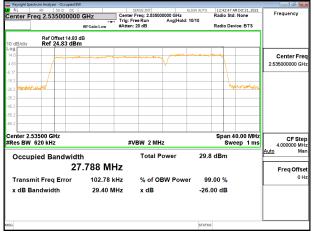
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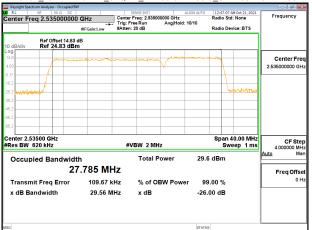
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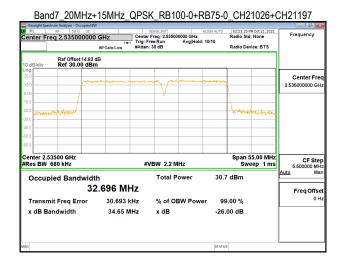


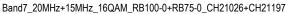


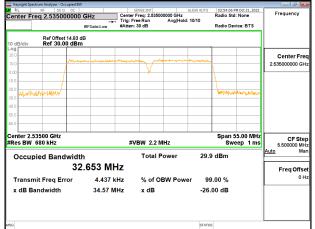


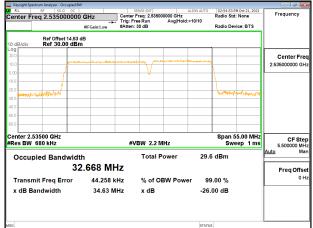
### Band7\_20MHz+10MHz\_64QAM\_RB100-0+RB50-0\_CH21051+CH21195











Band7\_20MHz+15MHz\_64QAM\_RB100-0+RB75-0\_CH21026+CH21197

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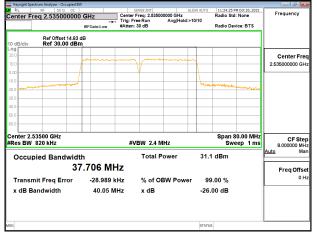
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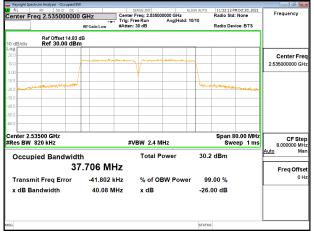
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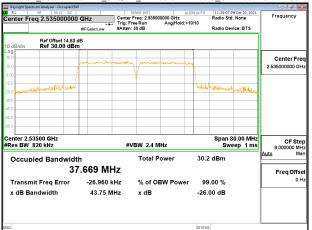
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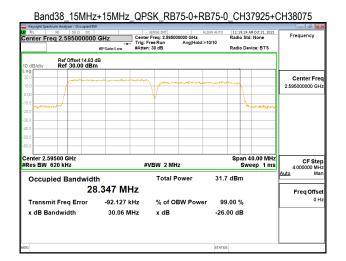


Band7\_20MHz+20MHz\_16QAM\_RB100-0+RB100-0\_CH21001+CH21199

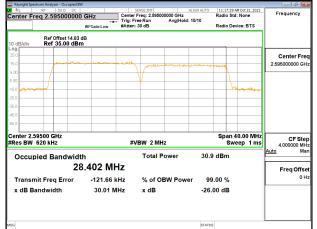


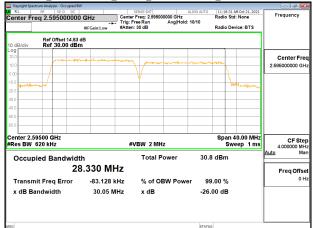
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Band38\_15MHz+15MHz\_16QAM\_RB75-0+RB75-0\_CH37925+CH38075





Band38\_15MHz+15MHz\_64QAM\_RB75-0+RB75-0\_CH37925+CH38075

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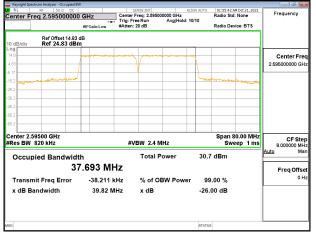
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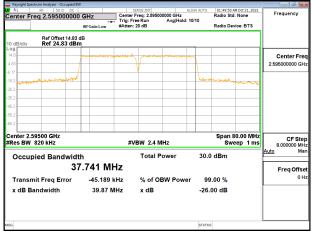
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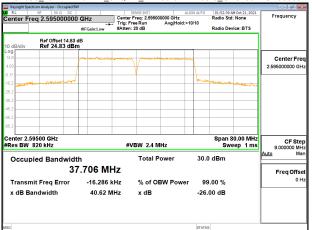
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#### Band38\_20MHz+20MHz\_16QAM\_RB100-0+RB100-0\_CH37901+CH38099

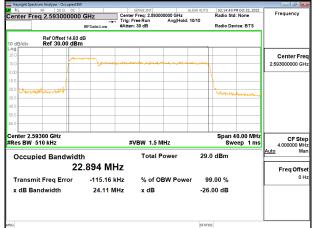


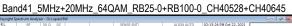
### Band38\_20MHz+20MHz\_64QAM\_RB100-0+RB100-0\_CH37901+CH38099



#### Band41\_5MHz+20MHz\_QPSK\_RB25-0+RB100-0\_CH40528+CH40645 RL RF 50 Ω DC SENSE:INT enter Freq 2.593000000 GHz Trig: Free Run #TCollection and Atten: 30 dB 02:14:08 PM Oct 2 Padio Std: None Frequer 000 GHz Avg|Hold: 10/10 Radio Device: BTS Ref Offset 14.83 o Ref 30.00 dBn Center Fre 2.593000000 GH er 2.59300 GHz BW 510 kHz Span 40.00 MH Sweep 1 ms CF Step #VBW 1.5 MHz 29.7 dBm Occupied Bandwidth Total Powe 22.940 MHz Freq Offse -82.698 kHz 99.00 % 0 H Transmit Freq Error % of OBW Power x dB Bandwidth 24.03 MHz -26.00 dB x dB

## Band41\_5MHz+20MHz\_16QAM\_RB25-0+RB100-0\_CH40528+CH40645







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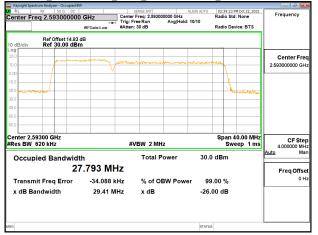
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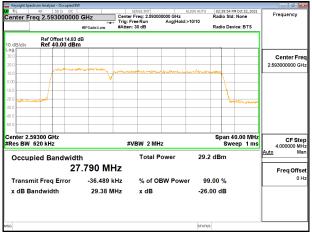
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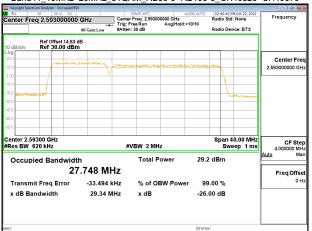
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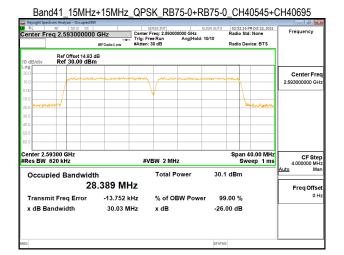


Band41\_10MHz+20MHz\_16QAM\_RB50-0+RB100-0\_CH40526+CH40670

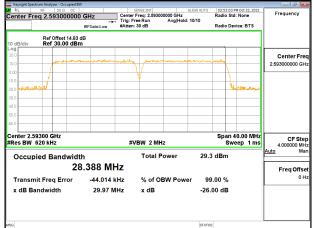


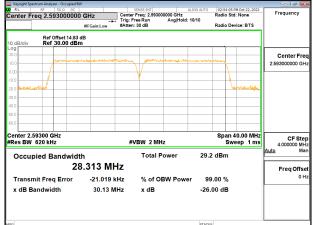
### Band41\_10MHz+20MHz\_64QAM\_RB50-0+RB100-0\_CH40526+CH40670











Band41\_15MHz+15MHz\_64QAM\_RB75-0+RB75-0\_CH40545+CH40695

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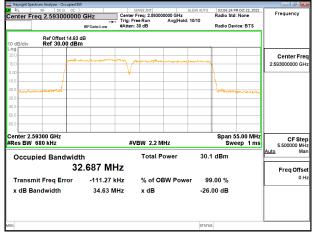
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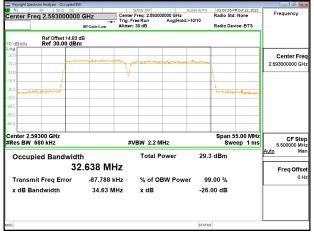
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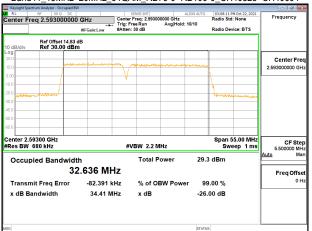
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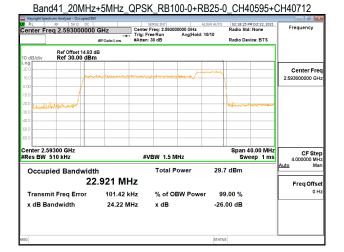


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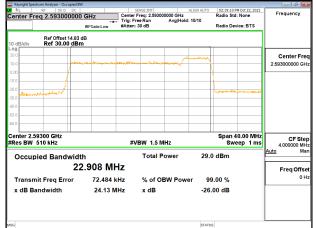


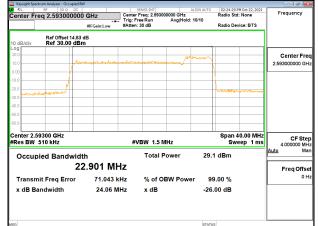
### Band41\_15MHz+20MHz\_64QAM\_RB75-0+RB100-0\_CH40523+CH40694





### Band41\_20MHz+5MHz\_16QAM\_RB100-0+RB25-0\_CH40595+CH40712





Band41\_20MHz+5MHz\_64QAM\_RB100-0+RB25-0\_CH40595+CH40712

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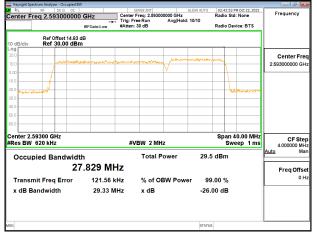
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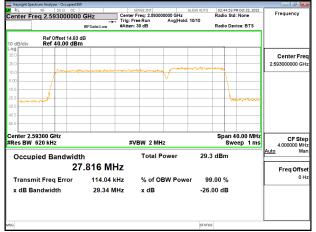
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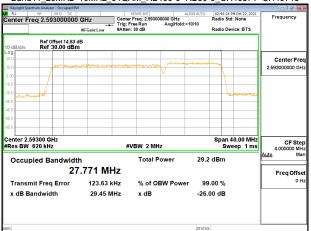
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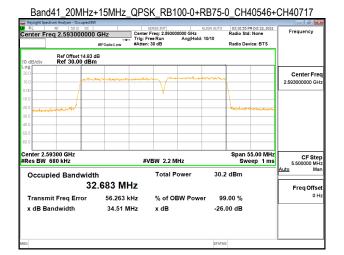


# Band41\_20MHz+10MHz\_16QAM\_RB100-0+RB50-0\_CH40571+CH40715

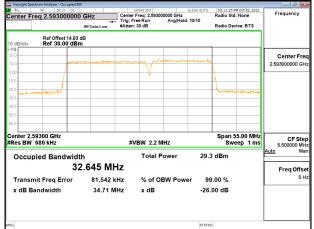


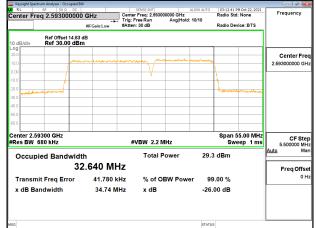
### Band41\_20MHz+10MHz\_64QAM\_RB100-0+RB50-0\_CH40571+CH40715





#### Band41\_20MHz+15MHz\_16QAM\_RB100-0+RB75-0\_CH40546+CH40717





Band41\_20MHz+15MHz\_64QAM\_RB100-0+RB75-0\_CH40546+CH40717

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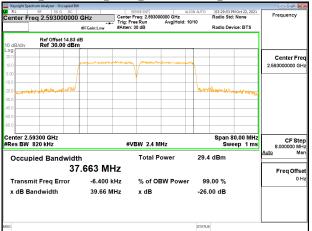
## Band41\_20MHz+20MHz\_QPSK\_RB100-0+RB100-0\_CH40521+CH40719



Band41\_20MHz+20MHz\_16QAM\_RB100-0+RB100-0\_CH40521+CH40719



## Band41\_20MHz+20MHz\_64QAM\_RB100-0+RB100-0\_CH40521+CH40719



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# 9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

# 9.1 Standard Applicable

# FCC §22.917(a), §27.53(h)

# RSS-132 §5.5, RSS-199 §4.5

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P) dB$ .

# FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

# ISED RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

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# RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable. Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

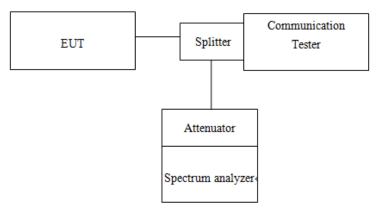
43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

# 9.2 Test SET-UP



# 9.3 Measurement Procedure

# 9.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.

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- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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#### 9.3.2 **Band Edge or Mask**

- To connect Antenna Port of EUT to Spectrum. 1.
- The band edge of low and high channels for the highest RF powers was measured. 2. Setting RBW  $\geq$  1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

#### 9.4 **Band Edge Measurement Result:**

Refer to next pages.

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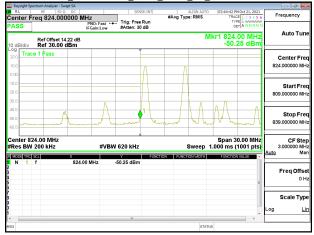
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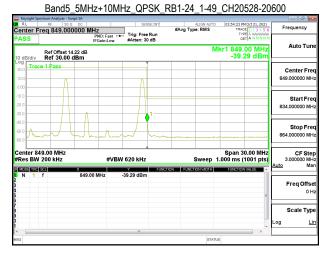
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# Report No.: ER/2021/A0030 Page: 49 of 100



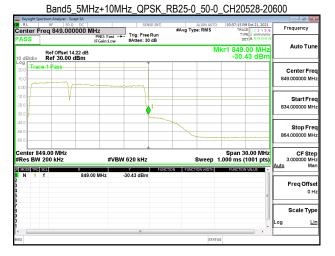
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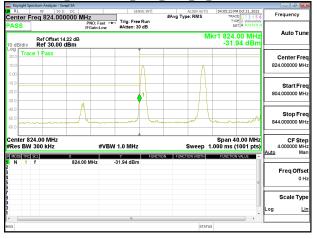


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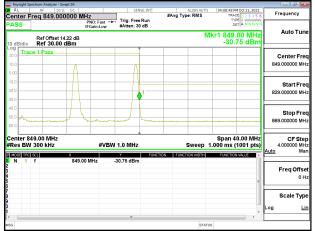
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X RL Center		50 Ω DC D00000 MH	z	SENS		#Avg Typ	ALIGN AUTO e: RMS	TRAC	Oct 21, 2021	Frequency
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N 1	f	824.00	MHz -	30.92 dBm					E	Freq Offs 0 H
7										Scale Typ
í										Log <u>Li</u>
MSG							STATU	5		L



Band5\_10MHz+10MHz\_QPSK\_RB1-0\_1-0\_CH20450-20549







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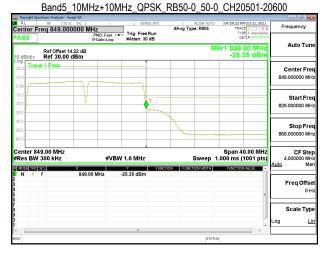
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# Report No.: ER/2021/A0030 Page: 50 of 100

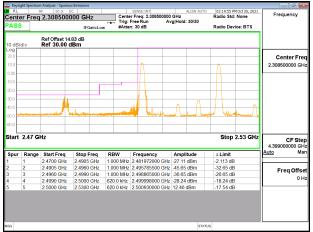


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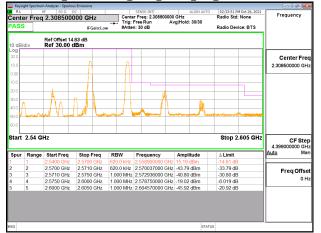




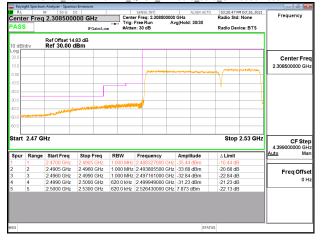
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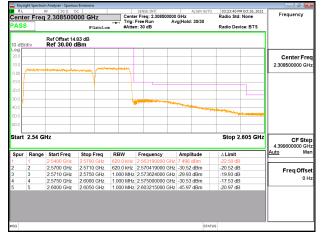
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Band7\_20MHz+10MHz\_QPSK\_RB100-0\_50-0\_CH20850-20994



#### Band7\_20MHz+10MHz\_QPSK\_RB100-0\_50-0\_CH21251-21395



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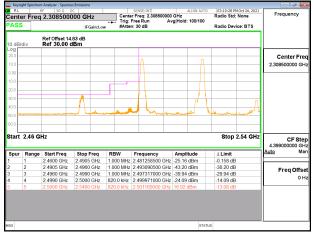
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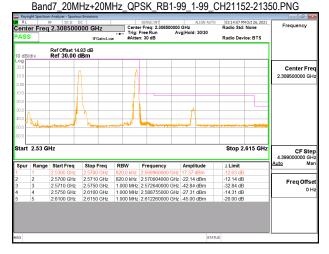
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# Report No.: ER/2021/A0030 Page: 51 of 100

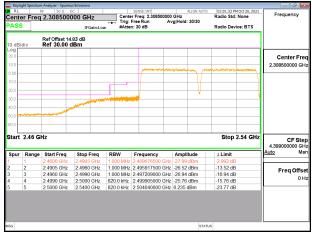


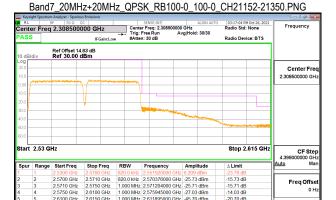
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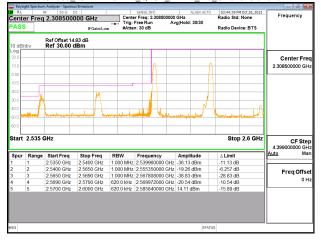


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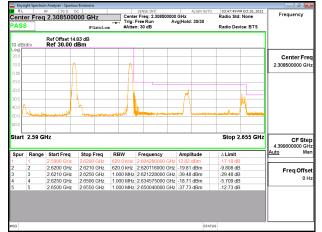




Band38\_15MHz+15MHz\_QPSK\_RB1-0\_1-0\_CH37825-37975







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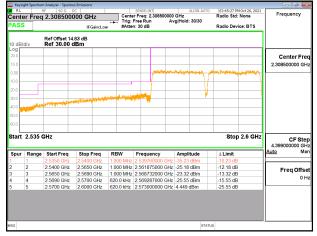
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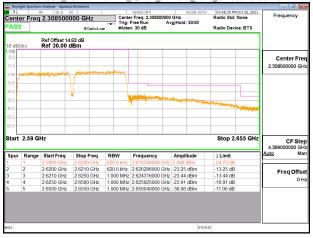
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# Report No.: ER/2021/A0030 Page: 52 of 100



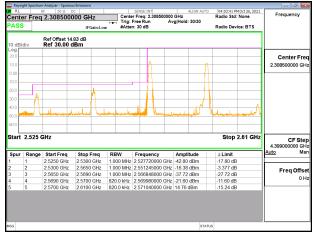
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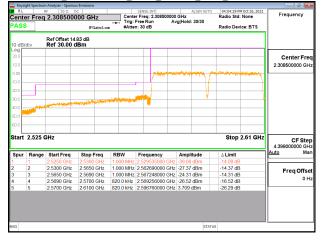
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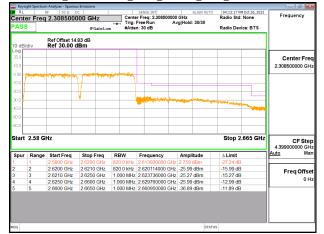
enter Freq 2.308500000 GHz 04:08:21 PM O Radio Std: No Frequer 00 GHz Avg|Hold: 30/30 Radio Device: BTS Ref Offset 14.83 dl Ref 30.00 dBm Center Fre 2.58 GHz Stop 2.665 GH CF Step ∆ Limi Frequency 820.01 2.6200410 Freq Offse 1.000 MHz 1.000 MHz 1.000 MHz -43.49 dBm -21.30 dBm -45.41 dBm -33.49 dB -8.301 dB -20.41 dB 2.6210 GHz 2.6250 GHz 2.6250 GHz 2.6600 GHz 2.621312000 GHz 2.638825000 GHz 0 H

Band38\_20MHz+20MHz\_QPSK\_RB1-99\_1-99\_CH37952-38150

#### Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37850-38048



#### Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37952-38150



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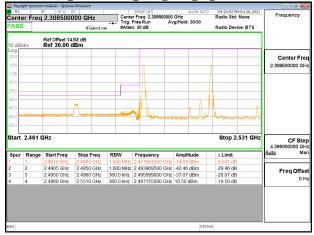
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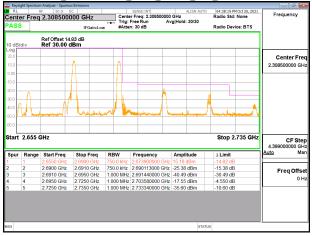
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# Report No.: ER/2021/A0030 Page: 53 of 100



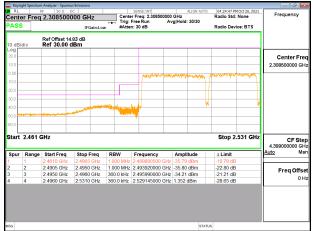
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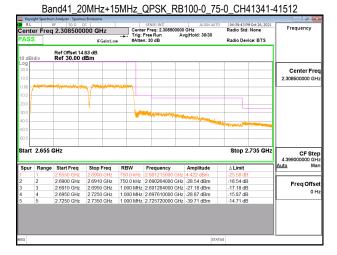




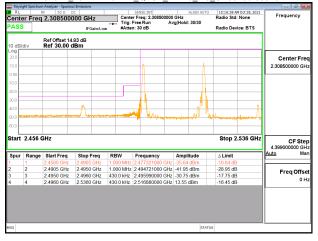
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Band41\_20MHz+15MHz\_QPSK\_RB100-0\_75-0\_CH39750-39921

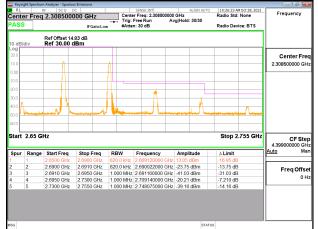




Band41\_20MHz+20MHz\_QPSK\_RB1-0\_1-0\_CH39750-39948







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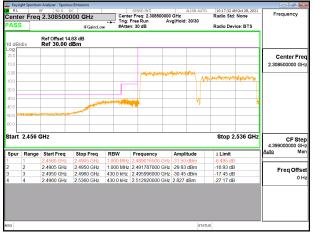
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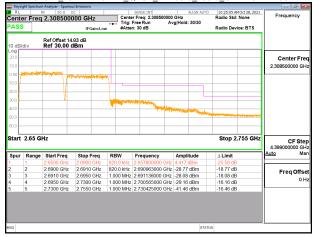
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#### Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH39750-39948



Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH41292-41490



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Report No.: ER/2021/A0030 Page: 55 of 100



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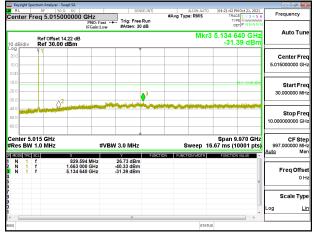
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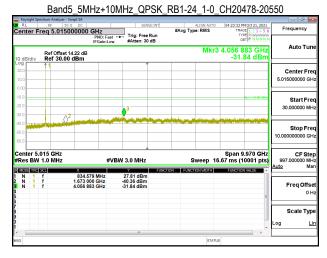
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# Report No.: ER/2021/A0030 Page: 56 of 100

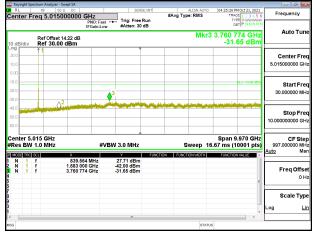


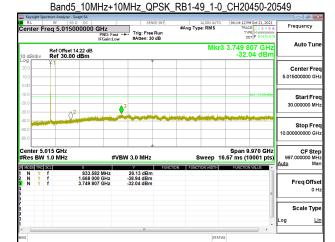
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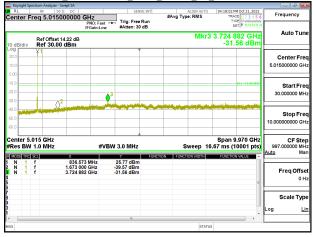


Band5\_5MHz+10MHz\_QPSK\_RB1-24\_1-0\_CH20528-20600





Band5\_10MHz+10MHz\_QPSK\_RB1-49\_1-0\_CH20476-20575







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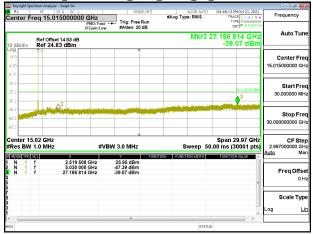
n Ltd.

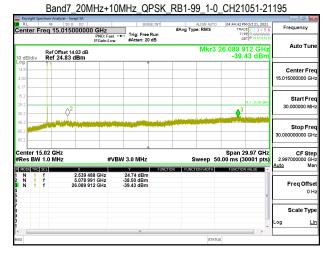
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# Report No.: ER/2021/A0030 Page: 57 of 100



### Band7\_20MHz+10MHz\_QPSK\_RB1-99\_1-0\_CH20850-20994





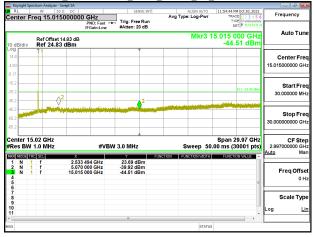
## Band7\_20MHz+10MHz\_QPSK\_RB1-99\_1-0\_CH21251-21395

	ctrum Analyzer -								_	
Center Fi		0 Ω DC   5000000 G	iHz		SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Oct 21, 2021	Frequency
10 dB/div	Ref Offset Ref 24.8	14.83 dB	Sain:Low	#Atten: 20	dB		Mkr3 2	26.364 6	ar GHz 58 dBm	Auto Tun
-og 14.8 4.83 5.17										Center Fre 15.015000000 GF
15.2 25.2 35.2								¢ <sup>3</sup>	0 <u>L1 -25.00 ot</u> en	Start Fre 30.000000 Mi
45.2 65.2 65.2										Stop Fr 30.000000000 G
	0.02 GHz 1.0 MHz	×	#VBW	3.0 MHz	FUNCT		weep 50	Span 2 .00 ms (3	9.97 GHz 0001 pts)	CF Str 2.997000000 G Auto M
N 1 N 1 N 1	f f f	2.559 468 0 5.110 000 0 26.364 637 0	SHz .	24.61 dBm -48.57 dBm -36.58 dBm					E	Freq Offs 0
										Scale Typ
sg							STATUS		•	

RL RF 50 Ω DC enter Freq 15.015000000 GHz PNO: Fast → #Atten: 20 dB Frequency Auto Tu Ref Offset 14.83 dl Ref 24.83 dBm 5 10 dB Center Fre Start Fre Stop Fre enter 15.02 GHz Res BW 1.0 MHz Span 29.97 GH2 Sweep 50.00 ms (30001 pts CF Step #VBW 3.0 MH N 1 f N 1 f 2.518 509 GHz 5.040 000 GHz 15.015 000 GHz 23.76 dBm -38.86 dBm -45.10 dBm Freq Offse Scale Typ Li

Band7\_20MHz+20MHz\_QPSK\_RB1-99\_1-0\_CH20850-21048

#### Band7\_20MHz+20MHz\_QPSK\_RB1-99\_1-0\_CH21001-21199



#### Band7\_20MHz+20MHz\_QPSK\_RB1-99\_1-0\_CH21152-21350



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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