

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant:	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_1003D
Model Difference:	N/A
Report Number:	ER/2020/30083
FCC ID	MSQI003D
IC:	3568A-I003D
FCC Rule Part:	2, 22H & 24E & 27 C & 90S
ISED Rule:	RSS-130, 132, 133, 139, 195, 199
Issue Date:	Sep. 04, 2020
Date of Test:	Jun. 01, 2020 ~ Jul. 21, 2020
Date of EUT Received:	May 06, 2020
We hereby certify that:	

#### 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 C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Jazz Huang

Jazz Huang / Asst. Supervisor



Approved By:

SGS Taiwan Ltd.

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	Remark								
ER/2020/30083	Rev.00	Original.	Sep. 04, 2020	Revised By: Violetta Tang								

#### Note:

1、 Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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# Contents

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	. 13
3	SUMMARY OF TEST RESULTS	. 16
4	DESCRIPTION OF TEST MODES	. 17
5	MEASUREMENT UNCERTAINTY	. 24
6	MAXIMUM OUTPUT POWER	. 25
7	OCCUPIED BANDWIDTH MEASUREMENT	. 98
8	OUT OF BAND EMISSION AT ANTENNA TERMINALS	236
9	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	366
10	FREQUENCY STABILITY MEASUREMENT	493
11	PEAK TO AVERAGE RATIO	507

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#### **GENERAL PRODUCT INFORMATION** 1

#### **Product Description** 1.1

General:

 Cial.							
Product Name:	ASUS Pho	ne (Mobile Phone)					
Brand Name:	ASUS						
Model No.:	ASUS_I00	3D					
Model Difference:	N/A						
Hardware Version:	R2.0B						
Software Version:	Android Q						
AJ Dongle:	Model No.: F370002, Supplier: MEILU						
Fan Dongle:	Model No.:	003, Supplier: ASUS					
USB Cable:	Model No.: LA9U2015-CS-R, Supplier: ASAP						
		om Rechargeable Li-polymer Battery / 12V / 15V / 20V from AC/DC Adapter					
Power Supply:	Battery:	Model No.: C11P1903, Supplier: SCUD					
	Adapter:	Model No.: A299-200150U-US, Supplier: AOHAI					
IMEI:	355306110093475 / 355306110093483 (2/3G Conducted) 355306110093970 / 355306110093988 (4G Conducted) 355306110093731 (2/3G Radiated) 355306110094390 (4G Radiated)						

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#### 1.2 **Operation Frequency Range**

Operating Frequency (MHz)											
GSM/GPRS/EDGE 850	824.2 - 848.8										
GSM/GPRS/EDGE 1900	1850.2 - 1909.8										
WCDMA / HSPA+ Band II	1852.4 - 1907.6										
WCDMA / HSPA+ Band IV	1712.4 - 1752.6										
WCDMA / HSPA+ Band V	826.4 - 846.6										

LTE Band	BW	Operatio		quency	LTE Band	BW	Operation		quency	
	(MHz)		MHz)			(MHz)	(MHz)			
	1.4	1850.7	-	1909.3		1.4	1850.7	-	1914.3	
	3	1851.5	-	1908.5		3	1851.5	-	1913.5	
2	5	1852.5	-	1907.5	25	5	1852.5	-	1912.5	
2	10	1855.0	-	1905.0	20	10	1855.0	-	1910.0	
	15	1857.5	-	1902.5		15	1857.5	-	1907.5	
	20	1860.0	-	1900.0		20	1860.0	-	1905.0	
	1.4	1710.7	-	1754.3		1.4	824.7	-	848.3	
	3	1711.5	-	1753.5	26	3	825.5	-	847.5	
4	5	1712.5	-	1752.5		5	826.5	-	846.5	
4	10	1715.0	-	1750.0		10	829.0	-	844.0	
	15	1717.5	-	1747.5		15	831.5	-	841.5	
	20	1720.0	-	1745.0		1.4	814.7	-	823.3	
	1.4	824.7	-	848.3	26 Part90	3	815.5	-	822.5	
5	3	825.5	-	847.5	20 Part90	5	816.5	-	821.5	
5	5	826.5	-	846.5		10	819.0			
	10	829.0	-	844.0	20	5	2307.5 - 2312.			
	5	2502.5	-	2567.5	30	10	2310.0			
7	10	2505.0	-	2565.0		5	2572.5	-	2617.5	
	15	2507.5	-	2562.5	20	10	2575.0	-	2615.0	
	20	2510.0	-	2560.0	38	15	2577.5	-	2612.5	
	1.4	699.7	-	715.3		20	2580.0	-	2610.0	
10	3	700.5	-	714.5		5	2498.5	-	2687.5	
12	5	701.5	-	713.5		10	2501.0	-	2685.0	
	10	704.0	-	711.0	41	15	2503.5	-	2682.5	
40	5	779.5	-	784.5	1	20	2506.0	-	2680.0	
13	10		782			1				
17	5	706.5	-	713.5	1					
17	10	709	-	711	]					

## Note: Operation frequency 814~824MHz is disabled in Canada.

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LTE Band	BW (MHz)	Operatio (I	n Fre MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)			
	1.4	1710.7	-	1779.3		5	665.5	-	695.5	
	3	1711.5	-	1778.5	71	10	688.0	-	693.0	
66	5	1712.5	-	1777.5		15	670.5	-	690.5	
00	10	1715.0	-	1775.0		20	673.0	-	688.0	
	15	1717.5	-	1772.5						
	20	1720.0	-	1770.0						

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#### 1.3 Antenna Designation

Antenna Type	Antenna Model No.									
	Ant0									
PIFA	Ant1									
	Ant2									
Note: The EUT equipped with 7 WWAN antenna, however, transmission of										
2G / 3G / 4GLTE bands are available by Ant0, Ant1 and Ant2.										

Operating Frequer	ncy (MHz)	Ant 0 Peak Gain (dBi)	Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)
GSM / GPRS / EDGE 850	824.2 ~ 848.8	-1.8	N/A	-2.2
GSM / GPRS / EDGE 1900	1850.2 ~ 1909.8	N/A	-1.0	N/A
WCDMA / HSPA Band II	1852.4 ~1907.6	N/A	-1.0	N/A
WCDMA / HSPA Band IV	1712.4 ~1752.6	N/A	0.7	N/A
WCDMA / HSPA Band V	826.4 ~ 846.6	-1.8	N/A	-2.2
LTE-Band 2	1850.7 ~ 1909.3	N/A	-1.0	N/A
LTE-Band 4	1710.7 ~1754.3	N/A	0.7	N/A
LTE-Band 5	824.7 ~ 848.3	-1.8	N/A	-2.2
LTE-Band 7	2502.5 ~ 2567.5	N/A	-0.5	N/A
LTE-Band 12	699.7 ~ 715.3	-3.8	N/A	-5.3
LTE-Band 13	779.5 ~ 784.5	-1.6	N/A	-3.4
LTE-Band 17	706.5 ~ 713.5	-3.9	N/A	-5.3
LTE-Band 25	1850.7 ~ 1914.3	N/A	-0.7	N/A
LTE-Band 26	824.7 ~ 848.3	-1.1	N/A	-2.2
LTE-Band 26 Part 90	814.7 ~ 823.3	-1.1	N/A	-2.2
LTE-Band 30	2307.5 ~2312.5	N/A	-2.7	N/A
LTE-Band 38	2572.5 ~2617.5	N/A	-2.3	N/A
LTE-Band 41	2498.5 ~ 2687.5	N/A	-3.0	N/A
LTE-Band 66	1710.7 ~ 1779.3	N/A	-1.1	N/A
LTE-Band 71	665.5 ~ 695.5	-4.0	N/A	-6.2

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

1.4	1	ype of	Emis	sion			IRP POW						1				-
							ERP / EIRI	P (dB	Sm)		W	99	9%	Тур	e of Ei	mission	
		GSM	l 850				28.47	ER	P.	0.	703	0.2	472		247KG	бXW	
		GPR	S 850				28.53	ER	P.	0.	713	0.2	451		245KG	бXW	
		EDG	E 850				22.77	ER	P	0.	189	0.2	463		246KG	57W	
		GSN	1900				29.50	EIF	RP	0.	891	0.2	457		246KG	бXW	
		GPR	S 1900				29.55	EIF	RP	0.	902	0.2	459		246KG	ХW	
			E 1900				24.84	EIF			305				245KG		1
			2 1700				ERP / EIR			-	W	-	9%			nission	
		WCDI	MA Band				22.11	EIR	RP	0.	163	4.1	438	51	4M14F		1
		HSDF	PA Band				21.17	EIR	RP	0.	131	4.1	409		4M14F	-9W	
		HSUF	PA Band				21.18	EIR	Rb	0.	131	4.1	406		4M14F	9W	1
		WCDI	MA Band	IV			23.67	EIR	Rb	0.	233	4.1	424		4M14F	-9W	
		HSDF	PA Band	IV			22.69	EIR	RΡ	0.	186	4.1	497		4M15F	-9W	1
		HSUF	PA Band	IV			22.74	EIR	Rb Sb	0.	188	4.1	328		4M13F	-9W	
		WCDI	MA Band	١V			19.23	ER	RP	0.	084	4.1	474		4M15F	<sup>-</sup> 9W	
		HSDF	PA Band	V			19.16	ER	RP	0.	082	4.1	341		4M13F	-9W	
		HSUF	PA Band				18.20	ER	RP	0.	066	4.1	416		4M14F	-9W	
LTE Band	BW	Modulation	ERP / E		(W)	99%	Type of Emissio			TE	BW	Modulation	ERP / (dB		(W)	99%	Type of Emission
Danu		QPSK	(dBn) 22.57	EIRP	0.181	1.0956	1M10G7			anu		QPSK	24.04	EIRP	0.254	1.0958	1M10G7D
		16QAM	22.09	EIRP	0.161	1.0999	1M1007					16QAM	23.36	EIRP	0.217	1.1001	1M1007D 1M10D7W
2	1.4	64QAM	21.50	EIRP	0.141	1.0962	1M10D7			4	1.4	64QAM	23.19	EIRP	0.208	4.5039	4M50D7W
		256QAM	18.49	EIRP	0.071	1.0892	1M09D7					256QAM	20.17	EIRP	0.104	1.0893	1M09D7W
		QPSK	22.31	EIRP	0.170	2.6935	2M69G7	D				QPSK	23.62	EIRP	0.230	2.6984	2M70G7D
2	3	16QAM	21.88	EIRP	0.154	2.7117	2M71D7	N		4	3	16QAM	23.45	EIRP	0.221	2.6989	2M70D7W
2	5	64QAM	21.49	EIRP	0.141	2.7038	2M70D7	N		4	3	64QAM	23.20	EIRP	0.209	2.7024	2M70D7W
		256QAM	18.49	EIRP	0.071	2.7047	2M70D7	N				256QAM	20.19	EIRP	0.104	2.7051	2M71D7W
		QPSK	22.39	EIRP	0.173	4.4939	4M49G7	D				QPSK	23.76	EIRP	0.238	4.4941	4M49G7D
2	5	16QAM	21.97	EIRP	0.157	4.4902	4M49D7	N		4	5	16QAM	23.62	EIRP	0.230	4.4874	4M49D7W
2	5	64QAM	21.49	EIRP	0.141	4.5039	4M50D7	N		4	5	64QAM	23.19	EIRP	0.208	4.5039	4M50D7W
		256QAM	18.49	EIRP	0.071	4.4868	4M49D7	N				256QAM	20.19	EIRP	0.104	4.4871	4M49D7W
		QPSK	22.51	EIRP	0.178	9.0053	9M01G7	D				QPSK	23.89	EIRP	0.245	9.0072	9M01G7D
2	10	16QAM	22.00	EIRP	0.158	8.9633	8M96D7	N		4	10	16QAM	23.65	EIRP	0.232	8.9536	8M95D7W
2	10	64QAM	21.48	EIRP	0.141	8.9975	9M00D7	N		4	10	64QAM	23.19	EIRP	0.208	8.9994	9M00D7W
		256QAM	18.49	EIRP	0.071	8.9716	8M97D7	N				256QAM	20.19	EIRP	0.104	8.9795	8M98D7W
		QPSK	22.58	EIRP	0.181	13.501	13M5G7	D				QPSK	23.97	EIRP	0.249	13.502	13M5G7D
2	1 -	16QAM	22.03	EIRP	0.160	13.475	13M5D7	N			15	16QAM	23.70	EIRP	0.234	13.468	13M5D7W
2	15	64QAM	21.49	EIRP	0.141	13.479	13M5D7	N		4	15	64QAM	23.19	EIRP	0.103	13.487	13M5D7W
		256QAM	18.49	EIRP	0.071	13.462	13M5D7	N			ĺ	256QAM	20.11	EIRP	0.103	13.471	13M5D7W
		QPSK	22.59	EIRP	0.182	17.947	17M9G7					QPSK	24.08	EIRP	0.256	17.944	17M9G7D
~	20	16QAM	22.10	EIRP	0.162	17.968	18M0D7				20	16QAM	23.84	EIRP	0.242	17.942	17M9D7W
2	20	64QAM	21.49	EIRP	0.141	17.939	17M9D7			4	20	64QAM	23.19	EIRP	0.208	17.932	17M9D7W
		256QAM	18.48	EIRP	0.070	17.933	17M9D7					256QAM	20.13	EIRP	0.103	17.921	17M9D7W
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#### Report No.: ER/2020/30083 Page 9 of 554

LTE	DIM		ERP / E	EIRP		0.001	Type of	LTE			ERP / E	IRP			Type of
Band	BW	Modulation	(dBn		(W)	99%	Emission	Band	BW	Modulation	(dBn		(W)	99%	Emission
		QPSK	19.12	ERP	0.082	1.0956	1M10G7D			QPSK	16.84	ERP	0.048	1.0942	1M09G7D
5	1.4	16QAM	18.35	ERP	0.068	1.0986	1M10D7W			16QAM	16.21	ERP	0.042	1.0984	1M10D7W
Э	1.4	64QAM	18.53	ERP	0.071	1.0964	1M10D7W	12	1.4	64QAM	16.28	ERP	0.042	1.0968	1M10D7W
		256QAM	16.36	ERP	0.043	1.0882	1M09D7W			256QAM	15.46	ERP	0.035	1.0899	1M09D7W
		QPSK	18.92	ERP	0.078	2.6972	2M70G7D	<u> </u>		QPSK	16.88	ERP	0.033	2.6957	2M70G7D
5	3	16QAM	18.59	ERP	0.072	2.7131	2M71D7W			16QAM	16.34	ERP	0.047	2.7160	2M7007D
5	5	64QAM	18.54	ERP	0.071	2.7018	2M70D7W	12	3		16.33	ERP	0.043	2.7047	2M70D7W
		256QAM	16.44	ERP	0.044	2.7054	2M71D7W			64QAM					
		QPSK	19.06	ERP	0.081	4.4917	4M49G7D			256QAM	13.42	ERP	0.022	2.7030	2M70D7W
5	5	16QAM	18.63	ERP	0.073	4.4845	4M48D7W			QPSK	16.91	ERP	0.049	4.4915	4M49G7D
5	5	64QAM	18.54	ERP	0.071	4.4966	4M50D7W	12	5	16QAM	16.39	ERP	0.044	4.4853	4M49D7W
		256QAM	16.52	ERP	0.045	4.4882	4M49D7W			64QAM	16.36	ERP	0.043	4.4991	4M50D7W
		QPSK	19.14	ERP	0.082	9.0134	9M01G7D			256QAM	13.50	ERP	0.022	4.4900	4M49D7W
5	10	16QAM	18.80	ERP	0.076	8.9620	8M96D7W			QPSK	16.97	ERP	0.050	8.9997	9M00G7D
5	10	64QAM	18.54	ERP	0.071	8.9981	9M00D7W	12	10	16QAM	16.50	ERP	0.045	8.9612	8M96D7W
		256QAM	16.55	ERP	0.045	8.9767	8M98D7W	12	10	64QAM	16.43	ERP	0.044	8.9879	8M99D7W
LTE	DW	Modulation	ERP / I	EIRP	0.4.0	99%	Type of			256QAM	13.51	ERP	0.022	8.9680	8M97D7W
Band	ΒŴ	wooulauon	(dBr	n)	(W)	99%	Emission	LTE			ERP / E	EIRP	6		Type of
		QPSK	21.97	EIRP	0.157	4.4954	4M50G7D	Band	nd	Modulation	(dBm)		(W)	99%	Emission
7	5	16QAM	21.30	EIRP	0.135	4.4863	4M49D7W			QPSK	19.51	ÉRP	0.089	4.5003	4M50G7D
'	5	64QAM	21.00	EIRP	0.126	4.5048	4M50D7W		_	16QAM	18.69	ERP	0.074	4.4973	4M50D7W
		256QAM	17.99	EIRP	0.063	4.4914	4M49D7W	13	5	64QAM	18.66	ERP	0.073	4.5040	4M50D7W
		QPSK	22.04	EIRP	0.160	9.0049	9M00G7D			256QAM	15.75	ERP	0.038	4.4934	4M49D7W
7	10	16QAM	21.25	EIRP	0.133	8.9692	8M97D7W			QPSK	19.65	ERP	0.092	8.9649	8M96G7D
,	10	64QAM	20.99	EIRP	0.126	8.9985	9M00D7W			16QAM	18.79	ERP	0.072	8.9345	8M93D7W
		256QAM	17.95	EIRP	0.062	8.9844	8M98D7W	13	10	64QAM	18.74	ERP	0.075	8.9687	8M97D7W
		QPSK	22.14	EIRP	0.164	13.471	13M5G7D			256QAM					
7	15	16QAM	21.44	EIRP	0.139	13.477	13M5D7W			ZOQAIVI	15.61	ERP	0.036	8.9291	8M93D7W
		64QAM	20.99	EIRP	0.126	13.476	13M5D7W	LTE	BW	Modulation	ERP / E		(W)	99%	Type of
		256QAM	17.98	EIRP	0.063	13.470	13M5D7W	Band			(dBn	· ·			Emission
		QPSK	22.21	EIRP	0.166	17.948	17M9G7D			QPSK	16.79	ERP	0.048	4.4931	4M49G7D
7	20	16QAM	21.60	EIRP	0.145	17.914	17M9D7W	17	5	16QAM	16.20	ERP	0.042	4.5286	4M53D7W
		64QAM	20.99	EIRP	0.126	17.932	17M9D7W		-	64QAM	15.96	ERP	0.039	4.5264	4M53D7W
		256QAM	18.00	EIRP	0.063	17.941	17M9D7W			256QAM	13.40	ERP	0.039	4.4884	4M49D7W
										QPSK	16.99	ERP	0.050	8.9928	8M99G7D
								17	10	16QAM	16.54	ERP	0.045	8.9552	8M96D7W
									10	64QAM	16.45	ERP	0.044	8.9882	8M99D7W
										256QAM	13.42	ERP	0.039	8.9696	8M97D7W
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#### Report No.: ER/2020/30083 Page 10 of 554

LTE	DW	March Jallar	ERP / E	IRP	0.4.0	000/	Type of	LTE	DW		ERP / E	EIRP	0.0.0	000/	Type of
Band	BW	Modulation	(dBn		(W)	99%	Emission	Band	BW	Modulation	(dBn		(W)	99%	Emission
		QPSK	22.35	EIRP	0.172	1.0961	1M10G7D			QPSK	20.03	ERP	0.101	1.0948	1M09G7D
25	1.4	16QAM	22.10	EIRP	0.162	1.1013	1M10D7W	26	1.4	16QAM	19.03	ERP	0.080	1.0997	1M10D7W
25	1.4	64QAM	21.47	EIRP	0.140	1.0947	1M09D7W	Part 90	1.4	64QAM	18.83	ERP	0.076	1.0964	1M10D7W
		256QAM	18.51	EIRP	0.071	1.0885	1M09D7W	70		256QAM	15.82	ERP	0.038	1.0896	1M09D7W
		QPSK	22.49	EIRP	0.177	2.6942	2M69G7D			QPSK	20.09	ERP	0.102	2.6976	2M70G7D
25	3	16QAM	22.26	EIRP	0.168	2.7145	2M71D7W	26	3	16QAM	19.40	ERP	0.087	2.7094	2M71D7W
20	5	64QAM	21.65	EIRP	0.146	2.7055	2M71D7W	Part 90	3	64QAM	19.00	ERP	0.079	2.7015	2M70D7W
		256QAM	18.50	EIRP	0.071	2.7042	2M70D7W	90		256QAM	15.88	ERP	0.039	2.7048	2M70D7W
		QPSK	22.62	EIRP	0.183	4.4933	4M49G7D			QPSK	20.14	ERP	0.103	4.4919	4M49G7D
25	5	16QAM	22.37	EIRP	0.173	4.4867	4M49D7W	26	-	16QAM	19.34	ERP	0.086	4.4882	4M49D7W
20	5	64QAM	21.76	EIRP	0.150	4.5039	4M50D7W	Part	5	64QAM	19.05	ERP	0.080	4.5023	4M50D7W
		256QAM	18.59	EIRP	0.072	4.4876	4M49D7W	90		256QAM	15.98	ERP	0.040	4.4856	4M49D7W
		QPSK	22.69	EIRP	0.186	8.9998	9M00G7D			QPSK	20.13	ERP	0.103	8.9722	8M97G7D
25	10	16QAM	22.37	EIRP	0.173	8.9643	8M96D7W	26		16QAM	19.38	ERP	0.087	8.9951	9M00D7W
20	10	64QAM	21.78	EIRP	0.151	8.9894	8M99D7W	Part	10	64QAM	17.65	ERP	0.058	8.9448	8M94D7W
		256QAM	18.68	EIRP	0.074	8.9748	8M97D7W	90		256QAM	15.29	ERP	0.034	8.9581	8M96D7W
		QPSK	22.71	EIRP	0.187	13.470	13M5G7D	LTE		200 0	ERP / I		0.001		Type of
25	15	16QAM	22.37	EIRP	0.173	13.473	13M5D7W	Band	BW	Modulation	(dBm/N		(W)	99%	Emission
20	10	64QAM	21.79	EIRP	0.151	13.484	13M5D7W	Dunu		QPSK	20.77	EIRP	0.119	4.4977	4M50G7D
		256QAM	18.68	EIRP	0.074	13.447	13M4D7W			16QAM	19.80	EIRP	0.095	4.4977	4M49D7W
		QPSK	22.88	EIRP	0.194	17.953	18M0G7D	30	5	64QAM	19.80	EIRP	0.095	4.4934	4M50D7W
25	20	16QAM	22.40	EIRP	0.174	17.929	17M9D7W			256QAM	15.69	EIRP	0.078	4.3019	4M49D7W
20	20	64QAM	21.79	EIRP	0.151	17.938	17M9D7W			QPSK	20.65	EIRP	0.037		
		256QAM	18.79	EIRP	0.076	17.944	17M9D7W							8.9975	9M00G7D
LTE	BW	/ Modulation	ERP / E	EIRP	040	99%	Type of	30	10	16QAM	19.79	EIRP	0.095	8.9521	8M95D7W
Band	DVV	NOUUIAUUII	(dBn	n)	(W)	99%	Emission			64QAM	18.79	EIRP	0.076	8.9873	8M99D7W
		QPSK	19.91	ERP	0.098	1.0944	1M09G7D	1.75		256QAM	15.64	EIRP	0.037	8.9576	8M96D7W
26	1.4	16QAM	18.95	ERP	0.079	1.0992	1M10D7W	LTE	BW	Modulation	ERP / EIRP		(W)	99%	Type of
20	1.4	64QAM	18.55	ERP	0.072	1.0979	1M10D7W	Band			(dBn	, '	0.100	4 5040	Emission
		256QAM	15.73	ERP	0.037	1.0893	1M09D7W			QPSK	21.39	EIRP	0.138	4.5048	4M50G7D
		QPSK	20.00	ERP	0.100	2.6962	2M70G7D	38	5	16QAM	20.37	EIRP	0.109	4.5204	4M52D7W
26	3	16QAM	18.83	ERP	0.076	2.7132	2M71D7W			64QAM	20.20	EIRP	0.105	4.5074	4M51D7W
20	Ŭ	64QAM	18.67	ERP	0.074	2.7035	2M70D7W			256QAM	17.01	EIRP	0.105	4.4792	4M48D7W
		256QAM	15.82	ERP	0.038	2.7025	2M70D7W			QPSK	21.41	EIRP		8.9818	8M98G7D
		QPSK	20.00	ERP	0.100	4.4915	4M49G7D	38	10	16QAM	20.41	EIRP	0.110	8.9781	8M98D7W
26	5	16QAM	19.25	ERP	0.084	4.4872	4M49D7W			64QAM	20.19	EIRP	0.104	8.9794	8M98D7W
20		64QAM	18.79	ERP	0.076	4.5008	4M50D7W			256QAM	17.08	EIRP	0.104	8.9719	8M97D7W
		256QAM	15.97	ERP	0.040	4.4859	4M49D7W			QPSK	21.41	EIRP	0.138	13.475	13M5G7D
		QPSK	20.18	ERP	0.104	9.0138	9M01G7D	38	15	16QAM	20.46	EIRP	0.111	13.490	13M5D7W
26	10	16QAM	19.37	ERP	0.086	8.9578	8M96D7W			64QAM	20.19	EIRP	0.104	13.482	13M5D7W
20		64QAM	18.91	ERP	0.078	8.9966	9M00D7W			256QAM	17.19	EIRP	0.104	13.469	13M5D7W
		256QAM	16.12	ERP	0.041	8.9746	8M97D7W			QPSK	21.41	EIRP	0.138	17.935	17M9G7D
		QPSK	20.28	ERP	0.107	13.483	13M5G7D	38	20	16QAM	20.53	EIRP	0.113	17.904	17M9D7W
26	5 15	16QAM	19.18	ERP	0.083	13.457	13M5D7W	30	20	64QAM	20.18	EIRP	0.104	17.909	17M9D7W
20		64QAM	19.05	ERP	0.080	13.463	13M5D7W			256QAM	17.20	EIRP	0.104	17.906	17M9D7W
		256QAM	16.17	ERP	0.041	13.466	13M5D7W			•					

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#### Report No.: ER/2020/30083 Page 11 of 554

LTE	DW	Madulatian	ERP / I	EIRP	0.4.0	000/	Type of
Band	BW	Modulation	(dBr	n)	(W)	99%	Emission
		QPSK	20.59	EIRP	0.115	4.4955	4M50G7D
41	F	16QAM	19.50	EIRP	0.089	4.4942	4M49D7W
41	5	64QAM	19.48	EIRP	0.089	4.5145	4M51D7W
		256QAM	16.48	EIRP	0.044	4.4756	4M48D7W
		QPSK	20.59	EIRP	0.115	8.9768	8M98G7D
41	10	16QAM	19.60	EIRP	0.091	8.9635	8M96D7W
41	10	64QAM	19.49	EIRP	0.089	8.9831	8M98D7W
		256QAM	16.49	EIRP	0.045	8.9736	8M97D7W
		QPSK	20.66	EIRP	0.116	13.489	13M5G7D
41	15	16QAM	19.60	EIRP	0.091	13.476	13M5D7W
41	41 15	64QAM	19.49	EIRP	0.089	13.496	13M5D7W
		256QAM	16.49	EIRP	0.045	13.476	13M5D7W
		QPSK	20.72	EIRP	0.118	17.932	17M9G7D
41	20	16QAM	19.63	EIRP	0.092	17.889	17M9D7W
11	20	64QAM	19.48	EIRP	0.089	17.894	17M9D7W
		256QAM	16.46	EIRP	0.044	17.900	17M9D7W
LTE	BW	Modulation	ERP / I	EIRP	(W)	99%	Type of
Band	DW	Wouldtion	(dBm)		(00)	77/0	Emission
		QPSK	22.14	EIRP	0.164	1.0959	1M10G7D
66	1.4	16QAM	21.33	EIRP	0.136	1.1009	1M10D7W
00		64QAM	21.26	EIRP	0.134	1.0964	1M10D7W
		256QAM	18.38	EIRP	0.069	1.0896	1M09D7W
		QPSK	22.19	EIRP	0.166	2.6965	2M70G7D
66	3	16QAM	21.48	EIRP	0.141	2.7158	2M72D7W
	0	64QAM	21.40	EIRP	0.138	2.7038	2M70D7W
		256QAM	18.34	EIRP	0.068	2.7034	2M70D7W
		QPSK	22.31	EIRP	0.170	4.4911	4M49G7D
66	5	16QAM	21.50	EIRP	0.141	4.4877	4M49D7W
	0	64QAM	21.39	EIRP	0.138	4.5011	4M50D7W
		256QAM	18.39	EIRP	0.069	4.4885	4M49D7W
		QPSK	22.35	EIRP	0.172	9.0112	9M01G7D
66	10	16QAM	21.55	EIRP	0.143	8.9574	8M96D7W
00	10	64QAM	21.39	EIRP	0.138	8.9843	8M98D7W
		256QAM	18.35	EIRP	0.068	8.9684	8M97D7W
		QPSK	22.44	EIRP	0.175	13.468	13M5G7D
66	15	16QAM	21.62	EIRP	0.145	13.474	13M5D7W
		64QAM	21.40	EIRP	0.138	13.472	13M5D7W
		256QAM	18.40	EIRP	0.069	13.457	13M5D7W
		QPSK	22.47	EIRP	0.177	17.936	17M9G7D
66	20	16QAM	21.67	EIRP	0.147	17.929	17M9D7W
00	20	64QAM	21.39	EIRP	0.138	17.947	17M9D7W
		256QAM	18.34	EIRP	0.068	17.925	17M9D7W

LTE	BW	Modulation	ERP / E		(W)	99%	Type of
Band			(dBn	n)	(**)	,,,,,,	Emission
		QPSK	17.40	ERP	0.055	4.4922	4M49G7D
71	5	16QAM	16.40	ERP	0.044	4.4870	4M49D7W
/1	5	64QAM	16.28	ERP	0.042	4.5000	4M50D7W
	256QAM	13.33	ERP	0.022	4.4908	4M49D7W	
		QPSK	17.50	ERP	0.056	9.0063	9M01G7D
71	71 10	16QAM	16.41	ERP	RP 0.044 8.965		8M97D7W
/ 1	10	64QAM	16.29	ERP	0.043	8.9868	8M99D7W
		256QAM	13.32	ERP	0.021	8.9643	8M96D7W
		QPSK	17.54	ERP	0.057	13.494	13M5G7D
71	15	16QAM	16.44	ERP	0.044	13.495	13M5D7W
/1	15	64QAM	16.35	ERP	0.043	13.467	13M5D7W
		256QAM	13.30	ERP	0.021	13.477	13M5D7W
		QPSK	17.60	ERP	0.058	17.927	17M9G7D
71	20	16QAM	16.56	ERP	0.045	17.914	17M9D7W
/ 1	20	64QAM	16.34	ERP	0.043	17.921	17M9D7W
		256QAM	13.35	ERP	0.022	17.912	17M9D7W

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# **1.5** Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90ISED RSS-130 Issue 2 Feb. 2019,ISED RSS-132 Issue 3 Jan. 2013ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018ISED RSS-139 Issue 3 July 16, 2015ISED RSS-195 Issue 2 Apr. 24, 2014ISED RSS-199 Issue 3 Dec. 2016ANSI C63.26-2015KDB971168 D01 Power Meas license Digital System v03r01KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.KDB412172 D01 Determining ERP and EIRP v01r01TS 151 010-1 is used to set, and measure the output power.

## 1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702) No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 FCC Designation number: TW0027 ISED CAB identifier: TW3702

### 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\*9m\*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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# **2 SYSTEM TEST CONFIGURATION**

## 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 according to the requirements in Section 8 and 13.

### 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.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.8	10	13.8
High Band (Above 1 GHz)	4.4	10	14.4

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#### 2.5 **Final Amplifier Voltage and Current Information:**

Test Mode	DC voltage (V)	DC current (mA)
GSM 850		428
GSM 1900		422
WCDMA B2		417
WCDMA B4		402
WCDMA B5	]	408
LTE Band 2	]	580
LTE Band 4	1	589
LTE Band 5	]	587
LTE Band 7	]	581
LTE Band 12		595
LTE Band 13	3.85	584
LTE Band 17	1	591
LTE Band 25	1	595
LTE Band 26	1	589
LTE Band 26 (Part 90S)	1	568
LTE Band 30	1	445
LTE Band 38	1	599
LTE Band 41	1	595
LTE Band 66	] [	583
LTE Band 71	1	591

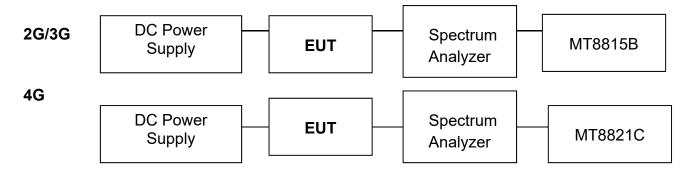
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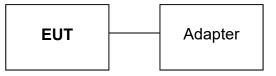


#### 2.6 **Configuration of Tested System**

# Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)



# Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



**Remote Side** 



# Table 2-1 Equipment Used in

ltem	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8815B	6200711454	shielded	Un-shielded
2.	Radio Communication Analyzer	Anritsu	MT8821C	6261786084	shielded	Un-shielded

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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) §24.232(c) §27.50(b)(10) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-195 §5.5 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.53(a) §27.53(g) §27.53(h) §27.53(h) §27.53(m)(4)(6) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	Band Edge / Emission mask	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(c)(f) §27.53(g) §27.53(h) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-195 §5.6 RSS-199 §4.5	01 Spurious Radiation	Compliant
§24.232(d) §27.50(B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.4 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 RSS-195 §5.4 RSS-199 §4.3	5 Frequency Stability	Compliant

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# **DESCRIPTION OF TEST MODES**

#### 4.1 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- 2. Transmissions of each frequency bands are available by 4 antennas below, only one antenna can be enabled at any given time by each band, the EUT dose not support MIMO mode.
- 3. Evaluation has been done on Upper and Lower antenna, the Lower antenna results higher EIRP and Emissions, therefore, only measurement results of the Lower antenna are demonstrated in this test report.

Mode	Bands	Upper Antenna	Lower Antenna
GSM / GPRS / EDGE	850	2	0
GSW/ GFRS/EDGE	1900	N/A	1
	Band II	N/A	1
WDCMA / HSPA	Band IV	N/A	1
	Band V	2	0
	Band 2	N/A	1
	Band 4	N/A	1
	Band 5	2	0
	Band 7	N/A	1
	Band 12	2	0
	Band 13	2	0
	Band 17	2	0
LTE	Band 25	N/A	1
	Band 26	2	0
	Band 26 (Part 90)	2	0
	Band 30	N/A	1
	Band 38	N/A	1
	Band 41	N/A	1
	Band 66	N/A	1
	Band 71	2	0

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4. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	H PLAN	E1 PLAN	E2 PLAN
GSM/GPRS/EDGE 850		V	
GSM/GPRS/EDGE 1900		V	
WCDMA/HSPA Band II		V	
WCDMA/HSPA Band IV		V	
WCDMA/HSPA Band V		V	
LTE Band 2		V	
LTE Band 4		V	
LTE Band 5		V	
LTE Band 7		V	
LTE Band 12		V	
LTE Band 13		V	
LTE Band 17		V	
LTE Band 25		V	
LTE Band 26		V	
LTE Band 26 (Part 90S)		V	
LTE Band 30		V	
LTE Bnad 38		V	
LTE Band 41		V	
LTE Band 66		V	
LTE Band 71		V	

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#### 4.2 **Measurement Configuration**

Test Items	GSM	Test Channel				
rest items	Bands	L	М	Н		
ERP	850	V	V	٧		
EIRP	1900	V	V	V		
FREQUENCY STABILITY	850	-	V	-		
TREQUENCI STADIETT	1900	-	V	-		
OCCUPIED BANDWIDTH	850	V	V	V		
	1900	V	V	V		
PEAK TO AVERAGE	850	V	V	V		
RATIO	1900	V	V	V		
BAND EDGE	850	V	-	V		
BAND EDGE	1900	V	-	V		
CONDCUDETED EMISSION	850	V	V	V		
	1900	V	V	V		
RADIATED EMISSION	850	V	V	V		
	1900	V	V	V		

Test Items	WCDMA / HSPA	Test Channel				
rest tients	Bands	L	М	Н		
ERP	Band V	V	V	V		
FIRP	Bnad II	V	V	V		
LINI	Band IV	V	V	V		
	Bnad II	-	V	-		
FREQUENCY STABILITY	Band IV	-	V	-		
	Band V	-	V	-		
	Bnad II	V	V	V		
OCCUPIED BANDWIDTH	Band IV	V	V	V		
	Band V	V	V	V		
PFAK TO AVFRAGE	Bnad II	V	V	V		
RATIO	Band IV	V	V	V		
KATIO	Band V	V	V	V		
	Bnad II	V	-	V		
BAND EDGE	Band IV	V	-	V		
	Band V	V	-	V		
	Bnad II	V	V	V		
CONDCUDETED EMISSION	Band IV	V	V	V		
	Band V	V	V	V		
	Bnad II	V	V	V		
RADIATED EMISSION	Band IV	V	V	V		
	Band V	V	۷	V		

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#### Report No.: ER/2020/30083 Page 20 of 554



Test Items	Band	Tes	t Char	nnel		Ba	ndwid	th (M	Hz)			Mod	ulation		RB #		
Test nems	Dallu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	٧	٧	V	٧	v	v	V	٧	v	V	٧	V	V	V	V	V
	4	٧	٧	٧	٧	٧	V	٧	٧	v	V	٧	V	v	V	V	v
	5	٧	٧	v	٧	V	v	V	-	-	V	٧	V	v	V	V	V
	7	٧	۷	٧	-	-	V	٧	٧	V	V	٧	٧	v	V	V	V
	12	٧	٧	v	٧	V	v	v	-	-	V	٧	V	v	V	V	V
	13	٧	٧	٧	-	-	v	٧	-	-	V	٧	٧	v	V	V	V
Max.	17	v	v	v	-	-	v	v	-	-	V	٧	V	v	V	V	v
Output	25	v	v	v	٧	v	v	v	v	v	V	V	V	v	V	V	V
Power	26	v	V	v	٧	v	v	v	V	-	V	V	V	v	V	V	V
Power	26	v	v	v	v	v	v	v	-	_	v	v	v	v	v	v	v
	P90	v	v	v	v	v	v	v	-	-	v	v	v	v	v	v	v
	30	v	v	v	-	-	v	v	-	-	V	V	V	v	V	V	V
	38	v	v	v	-	-	v	v	v	V	V	V	V	v	V	V	V
	41	v	v	v	-	-	v	v	v	v	V	٧	V	v	V	V	v
	66	٧	٧	٧	٧	V	٧	٧	٧	V	V	٧	٧	v	V	V	V
	71	v	v	v	-	-	v	v	v	v	V	V	V	v	V	V	V
	2	-	٧	-			V				V	-	-	-	-	-	V
	4	-	٧	-			V				V	-	-	-	-	-	V
	5	-	V	-			v		-	-	V	-	-	-	-	-	V
	7	-	٧	-	-	-	V				V	-	-	-	-	-	V
	12	-	v	-			v		-	-	V	-	-	-	-	-	v
	13	•	V	-	-	-	V		-	-	V	-	-	-	-	-	V
	17	-	۷	-	-	•	v		ŀ	-	v	ı.	-	-	1	-	V
Freqency	25	•	۷	-			٧				V	ŀ	•	-	-	-	v
Stability	26	•	۷	-			v			-	v	•	-	-	-	-	v
	26	-	v	-			v		-	-	v	-	-		-	-	v
	P90	-	v	-			v			-	v	-	-	-	-	-	v
	30	-	v	-	-	-	v		-	-	v	-	-	-	-	-	V
	38	-	v	-	-	-	v				v	-	-	-	-	-	V
	41	-	V	-	-	-	v				v	-	-	-	-	-	V
	66	-	v	-			v				V	•	-	-	-	-	V
	71	-	٧	-	-	-	v				v	-	-	-	-	-	V

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#### Report No.: ER/2020/30083 Page 21 of 554



Test Items	Band	Tes	t Char	nnel		Bai	ndwid	th (M	Hz)			Mod	ulation			RB #	
Test items	Dallu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	v	v	v	v	v	v	v	v	v	V	v	v	V	-	-	V
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	5	v	v	v	v	v	v	v	-	-	v	v	v	v	-	-	v
	7	v	v	v	-	-	v	v	v	v	v	v	v	V	-	-	v
	12	v	v	v	v	v	v	v	-	-	v	v	v	V	-	-	v
	13	v	v	v	-	-	v	v	-	-	v	v	v	V	-	-	v
26dB and	17	v	v	v	-	-	v	v	-	-	v	v	v	V	-	-	v
99%	25	v	v	v	v	v	v	v	v	V	v	v	v	V	-	-	v
Bandwidth	26	v	v	v	v	v	v	v	v	-	v	v	v	v	-	-	v
Danawiatin	26	v	v	v	v	v	v	v	-	_	v	v	v	v	_	-	v
	P90	v	v	v	v	v	v	v		-	v	v	v	v		-	v
	30	v	v	v	-	-	v	v	-	-	v	v	v	v	-	-	v
	38	v	v	v	-	-	v	v	v	٧	v	v	v	v	-	-	v
	41	v	v	v	-	-	v	v	v	ν	v	v	v	v	-	-	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	V	-	-	v
	71	v	v	v	-	-	v	v	V	V	V	v	v	v	-	-	V
	2	v	v	v	v	v	v	v	v	v				v	-	-	v
	4	v	v	v	v	v	v	v	V	v				v	-	-	V
	5	v	v	v	v	v	v	v	-	-				v	-	-	v
	7	v	v	v	-	-	v	v	V	v				V	-	-	v
	12	v	v	v	v	v	v	v	-	-				V	-	-	v
	13	v	v	v	-	-	v	v	-	-				v	-	-	v
	17	v	v	v	-	-	v	v	-	-				v	-	-	v
Peak-to-Av	25	v	V	V	V	V	V	v	V	v				v	-	-	V
erage Ratio	26	v	v	v	v	v	v	v	v	-				v	-	-	v
	26	v	v	v	v	v	v	v	-	-				v	-	-	v
	P90			,				-						Ĵ			
	30	v	v	v	-	-	v	v	-	-				v	-	-	v
	38	v	v	v	-	-	v	v	v	v				v	-	-	v
	41	v	v	v	-	-	v	v	v	v				v	-	-	v
	66	v	v	v	v	v	v	v	v	v				v	-	-	v
	71	v	V	V	-	-	V	V	V	v				V	-	-	V

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#### Report No.: ER/2020/30083 Page 22 of 554



Test Items	Band	Test	t Char	nnel		Ba	ndwid	th (M	Hz)			Mod	ulation			RB #	
Test items	Dallu	L	Μ	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	v	-	v	v	v	v	v	v	v	v	-	-	-	V	v	V
	4	v	-	v	v	v	v	v	v	v	v	-	-	-	V	v	v
-	5	v	-	v	v	v	v	v	-	-	v	-	-	-	V	v	V
	7	v	-	v	-	-	v	v	v	V	v	-	-	-	V	v	V
	12	v	-	v	v	v	v	v	-	-	v	-	-	-	V	v	v
	13	v	-	v	-	-	v	v	-	-	v	-	-	-	v	v	v
	17	v	-	٧	-	-	٧	V	-	-	v	-	-	-	V	v	V
Band Edge	25	v	-	v	v	v	v	v	v	v	v	-	-	-	v	v	v
Dana Luge	26	v	-	v	v	v	v	v	v	-	v	-	-	-	v	v	v
	26 P90	v	-	v	v	v	v	v	-	-	v	-	-	-	v	v	v
	30	v	-	v	-	-	v	v	-	-	v	-	-	-	V	v	v
	38	v	-	v	-	-	v	v	v	v	v	-	-	-	V	v	v
	41	v	-	v	-	-	v	v	v	v	v	-	-	-	V	v	v
	66	v	-	v	v	v	v	v	v	v	v	-	-	-	V	v	v
	71	v	-	v	-	-	v	v	v	V	v	-	-	-	V	v	v
	2	v	V	v	V	V	v	v	v	V	v	-	-	-	V	-	-
	4	v	v	v	v	v	v	v	v	v	v	-	-	-	V	-	-
	5	v	V	v	v	v	v	v	-	-	v	-	-	-	V	-	-
	7	v	V	v	-	-	v	v	v	v	v	-	-	-	V	-	-
	12	v	V	v	v	v	v	v	-	-	v	-	-	-	V	-	-
	13	v	V	v	-	-	v	v	-	-	v	-	-	-	V	-	-
	17	v	V	v	-	-	v	v	-	-	v	-	-	-	V	-	-
Conducted	25	v	v	v	v	v	v	v	v	V	v	-	-	-	V	-	-
Emission	26	v	v	v	v	v	v	v	v	-	v	-	-	-	V	-	-
	26 P90	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
	30	v	V	v	-	-	v	v	-	-	v	-	-	-	V	-	-
	38	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-
	41	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-
	66	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
	71	v	v	v	-	-	v	v	v	v	v	-	-	-	v	-	-

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# SG

#### Report No.: ER/2020/30083 Page 23 of 554

Test Items	Band	Test	t Char	nnel		Bai	ndwid	th (M	Hz)			Mod	ulation			RB #	
rest items	Danu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
	2	v	v	v			v				v				v		
	4	v	v	v			٧				v				v		
	5	v	v	v			v		-	-	v				v		
	7	v	v	v	-	-	٧				v				v		
	12	v	v	v			v		-	-	v				v		
	13	v	v	v	-	-	v		-	-	v				v		
	17	v	v	v	-	-	v		-	-	v				v		
Radiated	25	v	v	v			v				v				v		
Emission	26	v	v	v			v			-	v				v		
	26 P90	v	v	v			v		-	-	v				v		
	30	v	v	v	-	-	v		-	-	v				v		
	38	v	v	v	-	-	v				v				v		
	41	v	v	v	-	-	٧				v				v		
	66	V	v	v			v				v				V		
	71	v	v	v	-	-	v				v				v		

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# **MEASUREMENT UNCERTAINTY**

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

### Radiated Spurious Emission:

	9kHz – 30MHz: +/- 2.87 dB
Maggurament ungertainty	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty (Polarization : <b>Vertical</b> )	180MHz -417MHz: +/- 3.19dB
(Foldhization: Vortiour)	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty (Polarization : <b>Horizontal</b> )	167MHz -500MHz: +/- 3.44dB
(i olarization : horizontar)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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# 6 MAXIMUM OUTPUT POWER

## 6.1 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.

## 6.1.1 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 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

### FCC 27.50 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

## FCC 27.50 (b)

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

## FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

## FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

### FCC 27, 50(h)

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

### FCC 90.635(b)

Mobile station is limited to 100W ERP

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#### RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

#### 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-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

#### RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

#### RSS-195 §5.5

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Part-nership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

### RSS-199 §4.4

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

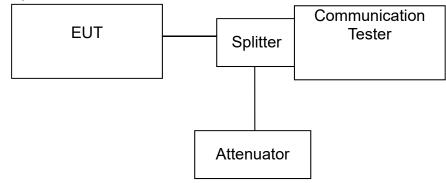
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### 6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

## 6.3 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. TS 151 010-1 is reference to conduct the test measurement of output power. 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.

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

According to KDB 412172 D01 Power Approach,

EIRP = Pт+Gт-Lc, ERP= EIRP-2.15, Where:

Gτ

Lc

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);

- $P_{T}$  = transmitter output power, expressed in dBW, dBm, or PSD;
  - = 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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#### 6.5 **Measurement Equipment Used**

#### 2/3G

Conduct	Test Site				
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021

#### 4G

Con	ducted Emiss	ion (measured at a	intenna port) Test	Site	
EQUIPMENT			SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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#### 6.6 **Measurement Results**

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
0.014	824.2	128	32.04	-1.80	28.09	30.24	38.50	-8.26
GSM 850	836.6	190	32.42	-1.80	28.47	30.62	38.50	-7.88
0.50	848.8	251	32.21	-1.80	28.26	30.41	38.50	-8.09
0.014	1850.2	512	30.13	-1.00	26.98	29.13	33.00	-3.87
GSM 1900	1880.0	661	30.50	-1.00	27.35	29.50	33.00	-3.50
1700	1909.8	810	30.22	-1.00	27.07	29.22	33.00	-3.78
0000	824.2	128	32.18	-1.80	28.23	30.38	38.50	-8.12
GPRS 850	836.6	190	32.48	-1.80	28.53	30.68	38.50	-7.82
050	848.8	251	32.27	-1.80	28.32	30.47	38.50	-8.03
0000	1850.2	512	30.26	-1.00	27.11	29.26	33.00	-3.74
GPRS 1900	1880.0	661	30.55	-1.00	27.40	29.55	33.00	-3.45
1700	1909.8	810	30.23	-1.00	27.08	29.23	33.00	-3.77
5005	824.2	128	26.52	-1.80	22.57	24.72	38.50	-13.78
EDGE 850	836.6	190	26.72	-1.80	22.77	24.92	38.50	-13.58
050	848.8	251	26.42	-1.80	22.47	24.62	38.50	-13.88
	1850.2	512	25.80	-1.00	22.65	24.80	33.00	-8.20
EDGE 1900	1880.0	661	25.84	-1.00	22.69	24.84	33.00	-8.16
1700	1909.8	810	25.71	-1.00	22.56	24.71	33.00	-8.29

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EUT Mode	Frequency (MHz)	СН	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
CDDC	824.2	128	32.18	31.83
GPRS 850	836.6	190	32.48	32.20
000	848.8	251	32.27	32.00
0000	1850.2	512	30.26	29.98
GPRS 1900	1880.0	661	30.55	30.39
1700	1909.8	810	30.23	30.10
FDOF	824.2	128	26.52	26.10
EDGE 850	836.6	190	26.72	26.34
000	848.8	251	26.42	26.30
	1850.2	512	25.80	25.32
EDGE 1900	1880.0	661	25.84	25.82
	1909.8	810	25.71	25.50

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#### 6.7 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24.50 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1852.4	9262	23.09	-1.00	19.94	22.09	33.00	-10.91
WCDMA	1880.0	9400	23.11	-1.00	19.96	22.11	33.00	-10.89
	1907.6	9538	23.04	-1.00	19.89	22.04	33.00	-10.96
	1852.4	9262	22.17	-1.00	19.02	21.17	33.00	-11.83
HSDPA	1880.0	9400	22.14	-1.00	18.99	21.14	33.00	-11.86
	1907.6	9538	22.05	-1.00	18.90	21.05	33.00	-11.95
	1852.4	9262	22.18	-1.00	19.03	21.18	33.00	-11.82
HSUPA	1880.0	9400	22.10	-1.00	18.95	21.10	33.00	-11.90
	1907.6	9538	22.03	-1.00	18.88	21.03	33.00	-11.97

#### WCDMA/HSUPA/HSDPA Band II Result:

### WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1712.4	1312	22.96	0.70	21.51	23.66	30.00	-6.34
WCDMA	1732.6	1413	22.93	0.70	21.48	23.63	30.00	-6.37
	1752.6	1513	22.97	0.70	21.52	23.67	30.00	-6.33
	1712.4	1312	21.98	0.70	20.53	22.68	30.00	-7.32
HSDPA	1732.6	1413	21.99	0.70	20.54	22.69	30.00	-7.31
	1752.6	1513	21.98	0.70	20.53	22.68	30.00	-7.32
	1712.4	1312	22.04	0.70	20.59	22.74	30.00	-7.26
HSUPA	1732.6	1413	21.89	0.70	20.44	22.59	30.00	-7.41
	1752.6	1513	21.96	0.70	20.51	22.66	30.00	-7.34

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#### WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	826.4	4132	23.18	-1.80	19.23	21.38	38.50	-17.12
WCDMA	836.6	4183	23.13	-1.80	19.18	21.33	38.50	-17.17
	846.6	4233	23.09	-1.80	19.14	21.29	38.50	-17.21
	826.4	4132	22.15	-1.80	18.20	20.35	38.50	-18.15
HSDPA	836.6	4183	22.07	-1.80	18.12	20.27	38.50	-18.23
	846.6	4233	23.11	-1.80	19.16	21.31	38.50	-17.19
	826.4	4132	22.15	-1.80	18.20	20.35	38.50	-18.15
HSUPA	836.6	4183	22.10	-1.80	18.15	20.30	38.50	-18.20
	846.6	4233	22.03	-1.80	18.08	20.23	38.50	-18.27

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#### 6.7.1 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

#### 6.7.2 HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	βc	βd	β <sub>d</sub> (SF)	β <sub>c</sub> /β <sub>d</sub>	βнs (Note1, Note 2)	<b>CM (dB)</b> (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Ανς	j. Power (dl Channel	Mode	Sub	Ανς	g. Power (dl Channel	3m)	
	1051	9262	9400	9538		test	1312	1413	1513
	1	22.17	22.14	22.05		1	21.98	21.99	21.98
HSDPA II	2	22.15	22.15	22.03		2	22.03	21.96	21.95
HJUFAII	3	21.63	21.62	21.56	HSDPA IV	3	21.51	21.52	21.46
	4	21.86	21.66	21.57		4	21.47	21.50	21.47

Mode		Avg. Power (dBm)					
	Sub test	Channel					
	1031	4132	4183	4233			
	1	22.15	22.07	23.11			
	2	22.21	22.36	23.10			
HSDPA V	3	21.64	21.86	23.13			
	4	21.67	21.77	23.12			

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#### 6.7.3 HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub- test	βс	βa	β₀ (SF)	βc/βa	βнs	βес	βed	β <sub>ed</sub> (SF)	β <sub>ed</sub> (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps )
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β <sub>ed</sub> 1: 47/15 β <sub>ed</sub> 2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

**Note:** The recommended HSUPA MPRs are implemented as per following sub-tests.

Mode	Sub test	Ave	g. Power (dE Channel	3m)	Mode	Sub test	Avg. Power (dBm) Channel			
	ເບລເ	9262	9400	9538		ເບລເ	1312	1413	1513	
	1	22.18	22.10	22.03		1	22.04	21.89	21.96	
	2	21.63	21.64	21.55		2	21.50	21.49	21.48	
HSUPA II	3	22.16	22.14	21.98	HSUPA IV	3	21.98	21.97	21.94	
	4	22.18	22.11	22.04		4	21.96	21.95	21.97	
	5	22.13	22.07	22.05		5	21.93	21.93	21.92	

	Cult	Avg. Power (dBm)						
Mode	Sub test	test Channel						
	1051	4132	4183	4233				
	1	22.15	22.10	22.03				
	2	21.66	21.59	21.61				
HSUPA V	3	22.14	22.05	22.12				
	4	22.15	22.09	22.08				
	5	22.18	22.05	22.06				

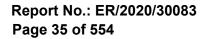
### 6.7.4 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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#### Minimum Communications Power Measurement PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.48	28.63	26.66	24.68	22.65	20.65	18.71	16.65	14.71
PCL	9	10	11	12	13	14	15		
Output power (dBm)	12.64	10.67	8.77	6.74	4.67	2.6	1.12		

Note: The EUT output power was controlled by simulator. Set Radio Communication Analyzer MT8815B PCL as above, and get the mobile phone output power reading.

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時から方方方が、「山牧古宅木田町別風人(冬田町貝)「同時山(茶田田林田9人)、今年時二大型本公司音曲市可、个可助力(後襲) This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law fullest extent of the law



#### 6.8 LTE Measurement Results:

BW (MHz)	UL				z_opink reque	ency band : 1850 to			
	Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.35	22.35	33	-10.65
	10/07	1050.7	QPSK	1	5	23.48	22.48	33	-10.52
	18607	1850.7	UPSK	3	2	23.57	22.57	33	-10.43
				6	0	22.56	21.56	33	-11.44
				1	0	23.35	22.35	33	-10.65
	18900	1880	QPSK	1	5	23.38	22.38	33	-10.62
	10700	1000	0151	3	2	23.39	22.39	33	-10.61
				6	0	22.48	21.48	33	-11.52
				1	0	23.17	22.17	33	-10.83
	19193	1909.3	QPSK	1	5	23.25	22.25	33	-10.75
				3	2	23.39	22.39	33	-10.61
				6	0	22.42	21.42	33	-11.58
				1	0	22.92	21.92	33	-11.08
	18607	1850.7	16QAM	1	5	23.09	22.09	33	-10.91
				3	2	22.61	21.61	33	-11.39
				6	0	21.64	20.64	33	-12.36
				1	0	22.47	21.47	33	-11.53
	18900	1880	16QAM	1	5	22.61	21.61	33	-11.39
				3	2	22.58	21.58	33	-11.42
				6	0	21.50	20.50	33	-12.5
				1	0	22.58	21.58	33	-11.42
	19193	1909.3	16QAM	1	5	22.42	21.42	33	-11.58
				3	2	22.33	21.33	33	-11.67
1.4				6	0	21.43	20.43	33	-12.57
				1	0	22.49	21.49	33	-11.51
	18607	1850.7	64QAM	1	5	22.41	21.41	33	-11.59
				3	2	22.41	21.41	33	-11.59
				6	0	21.48	20.48	33	-12.52
				1	0	22.42	21.42	33	-11.58
	18900	1880	64QAM	1	5	22.41	21.41	33	-11.59
				3	2	22.39	21.39	33	-11.61
				6	0	21.50	20.50	33	-12.5
				1	0	22.47	21.47	33	-11.53
	19193	1909.3	64QAM	1	5	22.50	21.50	33	-11.5
				3	2	22.36	21.36	33	-11.64
				6	0	21.31	20.31	33 33	-12.69
				1	0	19.49	18.49	33	-14.51 -14.52
	18607	1850.7	256QAM	1	5	19.48	18.48	33	
				3	2	19.44	18.44		-14.56
				6 1	0	19.42 19.45	18.42 18.45	33 33	-14.58 -14.55
					5	19.45	18.45	33	-14.55
	18900	1880	256QAM	1	2			33	
						19.41	18.41		-14.59
			ļ	6	0	19.35	18.35	33	-14.65
				1	0	19.48	18.48	33	-14.52
	19193	1909.3	256QAM	1	5	19.36 19.33	18.36	33	-14.64
				3	2	19.33	18.33 18.32	33 33	-14.67 -14.68

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### Report No.: ER/2020/30083 Page 37 of 554

	jain (dBi)	-1	LT	E Band	2_Uplink freque	ency band : 1850 to	o 1910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	23.31	22.31	33	-10.69	
	10/15	10E1 E	ODEK	1	14	23.10	22.10	33	-10.9	
	18615	1851.5	QPSK	8	4	22.17	21.17	33	-11.83	
				15	0	22.31	21.31	33	-11.69	
				1	0	23.03	22.03	33	-10.97	
	18900	1880	QPSK	1	14	23.21	22.21	33	-10.79	
	10900	1880	QF3K	8	4	22.04	21.04	33	-11.96	
				15	0	22.26	21.26	33	-11.74	
				1	0	23.03	22.03	33	-10.97	
	19185	1908.5	QPSK	1	14	23.12	22.12	33	-10.88	
	17105	1700.5	0151	8	4	22.06	21.06	33	-11.94	
				15	0	22.32	21.32	33	-11.68	
				1	0	22.54	21.54	33	-11.46	
	18615	1851.5	16QAM	1	14	22.11	21.11	33	-11.89	
	10013	1031.5	100/101	8	4	21.43	20.43	33	-12.57	
				15	0	21.17	20.17	33	-12.83	
				1	0	22.37	21.37	33	-11.63	
	18900	1880	16QAM	1	14	22.22	21.22	33	-11.78	
	10700	1000	100/101	8	4	21.02	20.02	33	-12.98	
				15	0	21.37	20.37	33	-12.63	
				1	0	22.88	21.88	33	-11.12	
	19185	1908.5	160 AM	16QAM	1	14	22.38	21.38	33	-11.62
	19105	1700.5	TOQAW	8	4	21.25	20.25	33	-12.75	
3				15	0	21.20	20.20	33	-12.8	
5				1	0	22.27	21.27	33	-11.73	
	18615	1851.5	64QAM	1	14	22.36	21.36	33	-11.64	
	10013	1051.5	04070	8	4	21.22	20.22	33	-12.78	
				15	0	21.38	20.38	33	-12.62	
				1	0	22.49	21.49	33	-11.51	
	18900	1880	64QAM	1	14	21.97	20.97	33	-12.03	
	10700	1000	040/10	8	4	21.37	20.37	33	-12.63	
				15	0	21.33	20.33	33	-12.67	
				1	0	22.35	21.35	33	-11.65	
	19185	1908.5	64QAM	1	14	21.97	20.97	33	-12.03	
	17105	1700.0	012/101	8	4	21.00	20.00	33	-13	
				15	0	21.16	20.16	33	-12.84	
				1	0	19.49	18.49	33	-14.51	
	18615	1851.5	256QAM	1	14	19.33	18.33	33	-14.67	
			2000/101	8	4	19.28	18.28	33	-14.72	
				15	0	19.22	18.22	33	-14.78	
				1	0	19.44	18.44	33	-14.56	
	18900	1880	2560 AM	1	14	19.48	18.48	33	-14.52	
		18900 1880 256QAM	8	4	19.32	18.32	33	-14.68		
				15	0	19.29	18.29	33	-14.71	
				1	0	19.47	18.47	33	-14.53	
	19185	1908.5	256QAM	1	14	19.44	18.44	33	-14.56	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 700.0	2002/101	8	4	19.23	18.23	33	-14.77	
				15	0	19.32	18.32	33	-14.68	

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# Report No.: ER/2020/30083 Page 38 of 554

ntenna g	ain (dBi)	-1	I T	F Band	2 Uplink freque	ency band : 1850 to	o 1910 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.39	22.39	33	-10.61
	18625	1852.5	QPSK	1	24	23.22	22.22	33	-10.78
	10025	1052.5	QISK	12	6	22.31	21.31	33	-11.69
				25	0	22.42	21.42	33	-11.58
				1	0	23.06	22.06	33	-10.94
	18900	1880	QPSK	1	24	23.26	22.26	33	-10.74
	10700	1000	Q1 SIX	12	6	22.15	21.15	33	-11.85
				25	0	22.37	21.37	33	-11.63
				1	0	23.04	22.04	33	-10.96
	19175	1907.5	QPSK	1	24	23.27	22.27	33	-10.73
				12	6	22.23	21.23	33	-11.77
				25	0	22.38	21.38	33	-11.62
				1	0	22.62	21.62	33	-11.38
	18625	1852.5	16QAM	1	24	22.25	21.25	33	-11.75
				12	6	21.55	20.55	33	-12.45
				25	0	21.22	20.22	33	-12.78
				1	0	22.44	21.44	33	-11.56
	18900	1880	16QAM	1	24	22.28	21.28	33	-11.72
				12	6	21.08	20.08	33	-12.92
				25	0	21.37	20.37	33	-12.63
			16QAM	1	0	22.97	21.97	33	-11.03
	19175	1907.5		1	24	22.45	21.45	33	-11.55
		170710	102,111	12	6	21.38	20.38	33	-12.62
5				25	0	21.34	20.34	33	-12.66
0				1	0	22.27	21.27	33	-11.73
	18625	1852.5	64QAM	1	24	22.36	21.36	33	-11.64
				12	6	21.38	20.38	33	-12.62
				25	0	21.50	20.50	33	-12.5
				1	0	22.49	21.49	33	-11.51
	18900	1880	64QAM	1	24	22.04	21.04	33	-11.96
				12	6	21.40	20.40	33	-12.6
				25	0	21.35	20.35	33	-12.65
				1	0	22.49	21.49	33	-11.51
	19175	1907.5	64QAM	1	24	22.00	21.00	33	-12
				12	6	21.18	20.18	33	-12.82
				25	0	21.28	20.28	33	-12.72
				1	0	19.48	18.48	33	-14.52
	18625	1852.5	256QAM	1	24	19.47	18.47	33	-14.53
				12	6	19.36	18.36	33	-14.64
				25	0	19.33	18.33	33	-14.67
				1	0	19.49	18.49	33	-14.51
	18900	1880	256QAM	1	24	19.45	18.45	33	-14.55
	18900 1880 256QAM	12	6	19.23	18.23	33	-14.77		
				25	0	19.22	18.22	33	-14.78
				1	0	19.49	18.49	33	-14.51
	19175	1907.5	256QAM	1	24	19.47	18.47	33	-14.53
				12	6	19.31	18.31	33	-14.69
				25	0	19.28	18.28	33	-14.72

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### Report No.: ER/2020/30083 Page 39 of 554

					1010 10		
	LT	E Band	2_Uplink freque	ency band : 1850 t	o 1910 MHz	<b></b>	1
Frequen (MHz)		RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
		1	0	23.51	22.51	33	-10.49
1855	QPSK	1	49	23.40	22.40	33	-10.6
1000	Q. OK	25	12	22.42	21.42	33	-11.58
		50	0	22.57	21.57	33	-11.43
		1	0	23.10	22.10	33	-10.9
1880	QPSK	1	49	23.31	22.31	33	-10.69
		25	12	22.33	21.33	33	-11.67
		50	0	22.50	21.50	33	-11.5
		1	0	23.22	22.22	33	-10.78
1905	QPSK	1	49	23.38	22.38	33	-10.62
		25 50	12 0	22.37 22.52	21.37 21.52	33 33	-11.63 -11.48
_		50 1	0	22.52		33	-11.48 -11.38
		1	49	22.62	21.62 21.41	33	-11.38 -11.59
1855	16QAM	25	49 12	22.41	20.62	33	-11.59 -12.38
		20 50	0	21.34	20.34	33	-12.36
-		1	0	22.59	21.59	33	-12.00
		1	49	22.34	21.34	33	-11.66
1880	16QAM	25	12	21.21	20.21	33	-12.79
		50	0	21.21	20.21	33	-12.63
		1	0	23.00	22.00	33	-11
		1	49	22.51	21.51	33	-11.49
1905	16QAM	25	12	21.46	20.46	33	-12.54
		50	0	21.41	20.41	33	-12.59
		1	0	22.31	21.31	33	-11.69
1055	(10.004	1	49	22.39	21.39	33	-11.61
1855	64QAM	25	12	21.46	20.46	33	-12.54
		50	0	21.53	20.53	33	-12.47
		1	0	22.48	21.48	33	-11.52
1880	64QAM	1	49	22.12	21.12	33	-11.88
1000	04QAW	25	12	21.45	20.45	33	-12.55
		50	0	21.38	20.38	33	-12.62
		1	0	22.48	21.48	33	-11.52
1905	64QAM	1	49	22.12	21.12	33	-11.88
1705	070/101	25	12	21.23	20.23	33	-12.77
		50	0	21.47	20.47	33	-12.53
		1	0	19.49	18.49	33	-14.51
1855	256QAM	1	49	19.44	18.44	33	-14.56
		25	12	19.01	18.01	33	-14.99
		50	0	19.10	18.10	33	-14.9
		1	0	19.48	18.48	33	-14.52
1880	256QAM	1	49	19.44	18.44	33	-14.56
18900 1880 256QAM						-14.97	
							-14.95
							-14.53
1905	256QAM						-14.56
							-14.89 -14.97
			25 50 1 1	25         12           50         0           1905         256QAM           1         49           25         12	25         12         19.03           50         0         19.05           1         0         19.47           1         49         19.44           25         12         19.11	25         12         19.03         18.03           50         0         19.05         18.05           1         0         19.47         18.47           1905         256QAM         1         49         19.44         18.44           25         12         19.11         18.11	25         12         19.03         18.03         33           50         0         19.05         18.05         33           1905         1         0         19.47         18.47         33           1905         256QAM         1         49         19.44         18.44         33           25         12         19.11         18.11         33

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# Report No.: ER/2020/30083 Page 40 of 554

ntenna g	ain (dBi)	-1	1 T	F Band	2 Unlink frogue	ency band : 1850 t	o 1910 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.58	22.58	33	-10.42
	18675	1857.5	QPSK	1	74	23.52	22.52	33	-10.48
	10075	1657.5	QF 3K	36	18	22.61	21.61	33	-11.39
				75	0	22.64	21.64	33	-11.36
				1	0	23.27	22.27	33	-10.73
	18900	1880	QPSK	1	74	23.38	22.38	33	-10.62
	10700	1000	Q1 SIX	36	18	22.48	21.48	33	-11.52
				75	0	22.61	21.61	33	-11.39
				1	0	23.38	22.38	33	-10.62
	19125	1902.5	QPSK	1	74	23.55	22.55	33	-10.45
				36	18	22.41	21.41	33	-11.59
				75	0	22.55	21.55	33	-11.45
				1	0	22.71	21.71	33	-11.29
	18675	1857.5	16QAM	1	74	22.54	21.54	33	-11.46
				36	18	21.69	20.69	33	-12.31
				75	0	21.52	20.52	33	-12.48
				1	0	22.59	21.59	33	-11.41
	18900	1880	16QAM	1	74	22.38	21.38	33	-11.62
				36	18	21.38	20.38	33	-12.62
				75	0	21.48	20.48	33	-12.52
				1	0	23.03	22.03	33	-10.97
	19125	1902.5	16QAM	1	74	22.63	21.63	33	-11.37
	17120	170210	102,111	36	18	21.55	20.55	33	-12.45
15				75	0	21.60	20.60	33	-12.4
				1	0	22.49	21.49	33	-11.51
	18675	1857.5	64QAM	1	74	22.39	21.39	33	-11.61
				36	18	21.46	20.46	33	-12.54
				75	0	21.66	20.66	33	-12.34
				1	0	22.46	21.46	33	-11.54
	18900	1880	64QAM	1	74	22.23	21.23	33	-11.77
				36	18	21.50	20.50	33	-12.5
				75	0	21.48	20.48	33	-12.52
				1	0	22.48	21.48	33	-11.52
	19125	1902.5	64QAM	1	74	22.30	21.30	33	-11.7
				36	18	21.42	20.42	33	-12.58
				75	0	21.49	20.49	33	-12.51
				1	0	19.47	18.47	33	-14.53
	18675	1857.5	256QAM	1	74	19.46	18.46	33	-14.54
				36	18	19.11	18.11	33	-14.89
				75	0	19.13	18.13	33	-14.87
				1	0	19.49	18.49	33	-14.51
	18900	1880	256QAM	1	74	19.43	18.43	33	-14.57
		18900 1880 256QAM	36	18	19.21	18.21	33	-14.79	
				75	0	19.08	18.08	33	-14.92
				1	0	19.49	18.49	33	-14.51
	19125	1902.5	256QAM	1	74	19.47	18.47	33	-14.53
				36	18	19.05	18.05	33	-14.95
				75	0	19.06	18.06	33	-14.94

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# Report No.: ER/2020/30083 Page 41 of 554

Antenna g	ain (dBi)	-1							
			LT	E Band	2_Uplink freque	ency band : 1850 t	o 1910 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.59	22.59	33	-10.41
	18700	1860	QPSK	1	99	23.52	22.52	33	-10.48
	10700	1000	0151	50	25	22.72	21.72	33	-11.28
				100	0	22.71	21.71	33	-11.29
				1	0	23.44	22.44	33	-10.56
	18900	1880	QPSK	1	99	23.38	22.38	33	-10.62
				50	25	22.63	21.63	33	-11.37
				100	0	22.55	21.55	33	-11.45
				1	0	23.56	22.56	33	-10.44
	19100	1900	QPSK	1	99	23.44	22.44	33	-10.56
				50	25	22.58	21.58	33	-11.42
				100	0	22.61	21.61	33	-11.39
				1	0	22.75	21.75	33	-11.25
	18700	1860	16QAM	1	99	22.61	21.61	33	-11.39
				50	25	21.71	20.71	33	-12.29
				100	0	21.64 22.74	20.64 21.74	33 33	-12.36 -11.26
				1	0	22.74	21.74	33	-11.26 -11.55
	18900	1880	16QAM	1	99 25	22.45	20.55	33	-11.55 -12.45
				50	25	21.55	20.53	33	-12.45
				100 1	0	23.10	20.34	33	-12.40
				1	99	22.63	21.63	33	-11.37
	19100	1900	16QAM	50	25	21.55	20.55	33	-12.45
				100	0	21.66	20.66	33	-12.34
20				100	0	22.49	21.49	33	-11.51
				1	99	22.47	21.47	33	-11.53
	18700	1860	64QAM	50	25	21.58	20.58	33	-12.42
				100	0	21.66	20.66	33	-12.34
				1	0	22.43	21.43	33	-11.57
	10000	1000	( 10 11	1	99	22.38	21.38	33	-11.62
	18900	1880	64QAM	50	25	21.59	20.59	33	-12.41
				100	0	21.52	20.52	33	-12.48
				1	0	22.46	21.46	33	-11.54
	10100	1000	640004	1	99	22.35	21.35	33	-11.65
	19100	1900	64QAM	50	25	21.56	20.56	33	-12.44
				100	0	21.60	20.60	33	-12.4
				1	0	19.46	18.46	33	-14.54
	18700	1860	256QAM	1	99	19.47	18.47	33	-14.53
	10700	1000	23002/101	50	25	19.15	18.15	33	-14.85
				100	0	19.09	18.09	33	-14.91
				1	0	19.48	18.48	33	-14.52
	18900	1880	2560 AM	1	99	19.47	18.47	33	-14.53
	18900 1880 256QAM	50	25	19.16	18.16	33	-14.84		
				100	0	19.11	18.11	33	-14.89
				1	0	19.46	18.46	33	-14.54
	19100	1900	256QAM	1	99	19.47	18.47	33	-14.53
	17100	1700	20027101	50	25	19.18	18.18	33	-14.82
				100	0	19.17	18.17	33	-14.83

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# Report No.: ER/2020/30083 Page 42 of 554

Antenn	a gain (dBi	0.7		a al A. I ha line ha	c		1710 L- 1755 MIL		
			LIE Bai	nd 4_Uplink	frequen	-	: 1710 to 1755 MH	Z	
BW (MHz)	UL Channel	Frequenc y (MHz)	Modulation	RB Size	RB Offset	Conduc ted Averag e (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.16	23.86	30	-6.14
	10057	1710 7	ODCK	1	5	23.23	23.93	30	-6.07
	19957	1710.7	QPSK	3	2	23.27	23.97	30	-6.03
				6	0	22.30	23.00	30	-7
				1	0	23.12	23.82	30	-6.18
	20175	1732.5	QPSK	1	5	23.23	23.93	30	-6.07
	20175	1732.5	QF 3K	3	2	23.31	24.01	30	-5.99
				6	0	22.29	22.99	30	-7.01
				1	0	23.19	23.89	30	-6.11
	20393	1754.3	QPSK	1	5	23.26	23.96	30	-6.04
	20373	1754.5	01510	3	2	23.34	24.04	30	-5.96
				6	0	22.31	23.01	30	-6.99
				1	0	22.48	23.18	30	-6.82
	19957	1710.7	16QAM	1	5	22.66	23.36	30	-6.64
	17737	1710.7	100/10	3	2	22.29	22.99	30	-7.01
				6	0	21.45	22.15	30	-7.85
				1	0	22.48	23.18	30	-6.82
	20175	1732.5	16QAM	1	5	22.46	23.16	30	-6.84
	20173 173	1752.5	TOQAM	3	2	22.26	22.96	30	-7.04
				6	0	21.29	21.99	30	-8.01
				1	0	22.16	22.86	30	-7.14
	20393	1754.3	16QAM	1	5	22.41	23.11	30	-6.89
	20373	1754.5	TOQAM	3	2	22.37	23.07	30	-6.93
1.4				6	0	21.29	21.99	30	-8.01
1.4				1	0	22.47	23.17	30	-6.83
	19957	1710.7	64QAM	1	5	22.46	23.16	30	-6.84
	17757	1710.7	04070	3	2	22.34	23.04	30	-6.96
				6	0	21.25	21.95	30	-8.05
				1	0	22.49	23.19	30	-6.81
	20175	1732.5	64QAM	1	5	22.16	22.86	30	-7.14
	20175	1752.5	040/10	3	2	22.40	23.10	30	-6.9
				6	0	21.27	21.97	30	-8.03
				1	0	22.44	23.14	30	-6.86
	20393	1754.3	64QAM	1	5	22.47	23.17	30	-6.83
	20375	1754.5	04070	3	2	22.14	22.84	30	-7.16
				6	0	21.36	22.06	30	-7.94
				1	0	19.47	20.17	30	-9.83
	19957	1710 7	2560 AM	1	5	19.46	20.16	30	-9.84
	19957 1710.7 256QAM	2300/10	3	2	19.33	20.03	30	-9.97	
				6	0	18.54	19.24	30	-10.76
	20175 1732.5 256QAM	1	0	19.47	20.17	30	-9.83		
		1	5	19.27	19.97	30	-10.03		
	20170	1,52.5	2002/101	3	2	19.00	19.70	30	-10.3
				6	0	18.47	19.17	30	-10.83
				1	0	19.30	20.00	30	-10
	20393	1754.3	256QAM	1	5	19.17	19.87	30	-10.13
	20373	1704.0	ZJUQAW	3	2	19.10	19.80	30	-10.2
				6	0	18.68	19.38	30	-10.62

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# Report No.: ER/2020/30083 Page 43 of 554

	a gain (dBi	0.7	LTE Ba	nd 4 Uplink f	frequen	cy band	: 1710 to 1755 MH	Ζ	
BW MHz)	UL Channel	Frequenc y (MHz)	Modulation	RB Size	RB Offset	Conduc ted	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.89	23.59	30	-6.41
	19965	1711.5	QPSK	1	14	22.78	23.48	30	-6.52
	17700	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>u</b> . o	8	4	21.91	22.61	30	-7.39
				15	0	21.78	22.48	30	-7.52
				1	0	22.92	23.62	30	-6.38
	20175	1732.5	QPSK	1	14	22.84	23.54	30	-6.46
				8	4	21.76	22.46	30	-7.54
				15	0	22.07	22.77	30	-7.23
				1	0	22.75	23.45	30	-6.55
	20385	1753.5	QPSK	1	14	22.56	23.26	30	-6.74
				8	4	22.13	22.83	30	-7.17
				15	0	21.99	22.69	30	-7.31
				1	0	22.75	23.45	30	-6.55
	19965	1711.5	16QAM	1	14	21.95	22.65	30	-7.35
				8	4	21.08	21.78	30	-8.22
				15	0	20.88	21.58	30	-8.42
				1	0	22.08	22.78	30	-7.22
	20175	75 1732.5 16QAM	16QAM	1	14	22.20	22.90	30	-7.1
				8	4	20.87	21.57	30	-8.43
				15	0	20.86	21.56	30	-8.44
				1	0	22.23	22.93	30	-7.07
	20385	1753.5	16QAM	1	14	22.29	22.99	30	-7.01
				8	4	21.23	21.93	30	-8.07
3				15	0	21.07	21.77	30	-8.23
				1	0	21.90	22.60	30	-7.4
	19965	1711.5	64QAM	1	14	22.03	22.73	30	-7.27
				8	4	21.03	21.73	30	-8.27
				15	0	20.74	21.44	30	-8.56
				1	0	22.50	23.20	30	-6.8
	20175	1732.5	64QAM	1	14	21.93	22.63	30	-7.37
				8	4	20.75	21.45	30	-8.55
				15	0	20.99	21.69	30	-8.31
				1	0	22.49	23.19	30	-6.81
	20385	1753.5	64QAM	1	14	21.99	22.69	30	-7.31
				8	4	20.88	21.58	30	-8.42
				15	0	20.91	21.61	30	-8.39
				1	0	19.48	20.18	30	-9.82
	19965	1711.5	1711.5 256QAM	1	14	19.23	19.93	30	-10.07
				8	4	18.87	19.57	30	-10.43
	20175 1732.5 256QAM		15	0	18.56	19.26	30	-10.74	
		1	0	19.49	20.19	30	-9.81		
		1	14	19.42	20.12	30	-9.88		
				8	4	18.61	19.31	30	-10.69
				15	0	18.55	19.25	30	-10.75
				1	0	19.48	20.18	30	-9.82
	20385	1753.5	256QAM	1	14	19.34	20.04	30	-9.96
				8	4	18.75	19.45	30	-10.55
				15	0	18.78	19.48	30	-10.52

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# Report No.: ER/2020/30083 Page 44 of 554

Antenn	a gain (dBi	0.7		nd 4. Unlink	froquon	cy band	: 1710 to 1755 MH	7	
				па 4_орппк	liequen	Conduc		Ζ	
BW (MHz)	UL Channel	Frequenc y (MHz)	Modulation	RB Size	RB Offset	ted Averag	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.02	23.72	30	-6.28
	10075	1710 5	ODCK	1	24	23.06	23.76	30	-6.24
	19975	1712.5	QPSK	12	6	22.20	22.90	30	-7.1
				25	0	21.99	22.69	30	-7.31
				1	0	23.00	23.70	30	-6.3
	20175	1732.5	QPSK	1	24	23.02	23.72	30	-6.28
	20175	1732.5	QF 3K	12	6	21.89	22.59	30	-7.41
				25	0	22.15	22.85	30	-7.15
				1	0	23.03	23.73	30	-6.27
	20375	1752.5	QPSK	1	24	22.81	23.51	30	-6.49
	20070	1702.0	QI SIX	12	6	22.35	23.05	30	-6.95
				25	0	22.20	22.90	30	-7.1
				1	0	22.92	23.62	30	-6.38
	19975	1712.5	16QAM	1	24	22.21	22.91	30	-7.09
	17770	1712.0	100.101	12	6	21.18	21.88	30	-8.12
				25	0	21.18	21.88	30	-8.12
				1	0	22.25	22.95	30	-7.05
	20175	1732.5	16QAM	1	24	22.26	22.96	30	-7.04
		100/101	12	6	21.10	21.80	30	-8.2	
			25	0	20.97	21.67	30	-8.33	
			16QAM	1	0	22.29	22.99	30	-7.01
	20375	1752.5		1	24	22.42	23.12	30	-6.88
	20373	1752.5	100/101	12	6	21.29	21.99	30	-8.01
5				25	0	21.11	21.81	30	-8.19
0				1	0	22.10	22.80	30	-7.2
	19975	1712.5	64QAM	1	24	22.11	22.81	30	-7.19
	17770	1712.0	010/101	12	6	21.23	21.93	30	-8.07
				25	0	21.02	21.72	30	-8.28
				1	0	22.49	23.19	30	-6.81
	20175	1732.5	64QAM	1	24	21.95	22.65	30	-7.35
	20170	170210	010.111	12	6	21.02	21.72	30	-8.28
				25	0	21.14	21.84	30	-8.16
				1	0	22.47	23.17	30	-6.83
	20375	1752.5	64QAM	1	24	22.14	22.84	30	-7.16
	20070	170210	010.111	12	6	21.00	21.70	30	-8.3
				25	0	21.10	21.80	30	-8.2
				1	0	19.49	20.19	30	-9.81
	19975	1712.5	2560AM	1	24	19.47	20.17	30	-9.83
				12	6	18.91	19.61	30	-10.39
		25	0	18.86	19.56	30	-10.44		
		1	0	19.49	20.19	30	-9.81		
	20175	20175 1732.5 256QAM	1	24	19.44	20.14	30	-9.86	
				12	6	18.84	19.54	30	-10.46
				25	0	18.74	19.44	30	-10.56
				1	0	19.48	20.18	30	-9.82
	20375	1752.5	256QAM	1	24	19.46	20.16	30	-9.84
				12	6	19.01	19.71	30	-10.29
				25	0	18.85	19.55	30	-10.45

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# Report No.: ER/2020/30083 Page 45 of 554

Antenn	a gain (dB	0.7		nd 4 Unlink	froquen	ov bond	. 1710 to 1755 MU	-	
				nu 4_opiink	lequen	Cy band Conduc	: 1710 to 1755 MH		
BW (MHz)	UL Channel	Frequenc y (MHz)	Modulation	RB Size	RB Offset	ted Averag	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.15	23.85	30	-6.15
	20000	1715	QPSK	1	49	23.19	23.89	30	-6.11
	20000	1715	UPSK	25	12	22.20	22.90	30	-7.1
				50	0	22.15	22.85	30	-7.15
				1	0	23.13	23.83	30	-6.17
	20175	1732.5	QPSK	1	49	23.02	23.72	30	-6.28
	20170	170210	di on	25	12	22.07	22.77	30	-7.23
				50	0	22.25	22.95	30	-7.05
				1	0	23.07	23.77	30	-6.23
	20375	1750	QPSK	1	49	23.00	23.70	30	-6.3
				25	12	22.36	23.06	30	-6.94
				50	0	22.33	23.03	30	-6.97
				1	0	22.95	23.65	30	-6.35
	20000	1715	16QAM	1	49	22.32	23.02	30	-6.98
				25	12	21.25	21.95	30	-8.05
				50	0	21.25	21.95	30	-8.05
				1	0	22.38	23.08	30	-6.92
	20175	1732.5	16QAM	1 25	49	22.43	23.13 21.88	30	-6.87
					12 0	21.18	21.88	30 30	-8.12
		50 1	0	21.05 22.37	23.07	30	-8.25 -6.93		
			-	1	49	22.51	23.07	30	-6.79
	20375	1750	16QAM	25	12	22.31	22.08	30	-7.92
				50	0	21.30	21.83	30	-8.17
10				1	0	22.29	22.99	30	-7.01
				1	49	22.14	22.84	30	-7.16
	20000	1715	64QAM	25	12	21.28	21.98	30	-8.02
				50	0	21.14	21.84	30	-8.16
				1	0	22.48	23.18	30	-6.82
	00175	1700 5		1	49	22.00	22.70	30	-7.3
	20175	1732.5	64QAM	25	12	21.17	21.87	30	-8.13
				50	0	21.20	21.90	30	-8.1
				1	0	22.49	23.19	30	-6.81
	20275	1750	( 10 004	1	49	22.33	23.03	30	-6.97
	20375	1750	64QAM	25	12	21.16	21.86	30	-8.14
				50	0	21.21	21.91	30	-8.09
				1	0	19.47	20.17	30	-9.83
	20000	1715	256QAM	1	49	19.49	20.19	30	-9.81
	20000	1715	250QAM	25	12	19.00	19.70	30	-10.3
				50	0	18.97	19.67	30	-10.33
	20175 1732.5 256QAM	1	0	19.44	20.14	30	-9.86		
		1	49	19.46	20.16	30	-9.84		
	20175	1132.3	2002/101	25	12	19.02	19.72	30	-10.28
				50	0	18.92	19.62	30	-10.38
				1	0	19.49	20.19	30	-9.81
	20375	1750	256QAM	1	49	19.47	20.17	30	-9.83
	20375	1750	230QAW	25	12	19.07	19.77	30	-10.23
				50	0	18.96	19.66	30	-10.34

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# Report No.: ER/2020/30083 Page 46 of 554

Antenn	a gain (dB	i 0.7					1710 L- 17EE MIL		
			LIE Ba	nd 4_Uplink i	requen	-	: 1710 to 1755 MH	Z	
BW (MHz)	UL Channel	Frequenc y (MHz)	Modulation	RB Size	RB Offset	Conduc ted Averag e (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.27	23.97	30	-6.03
	20025	1717.5	QPSK	1	74	23.26	23.96	30	-6.04
	20025	1717.5	QPSK	36	18	22.20	22.90	30	-7.1
				75	0	22.19	22.89	30	-7.11
				1	0	23.19	23.89	30	-6.11
	20175	1732.5	QPSK	1	74	23.12	23.82	30	-6.18
	20175	1732.5	QI SIX	36	18	22.24	22.94	30	-7.06
				75	0	22.37	23.07	30	-6.93
				1	0	23.24	23.94	30	-6.06
	20325	1747.5	QPSK	1	74	23.04	23.74	30	-6.26
				36	18	22.38	23.08	30	-6.92
				75	0	22.34	23.04	30	-6.96
				1	0	23.00	23.70	30	-6.3
	20025	1717.5	16QAM	1	74	22.41	23.11	30	-6.89
				36	18	21.38	22.08	30	-7.92
				75	0	21.40	22.10	30	-7.9
				1	0	22.51	23.21	30	-6.79
	20175	1732.5	16QAM	1	74	22.43	23.13	30	-6.87
				36	18	21.35	22.05	30	-7.95
				75	0	21.22	21.92	30	-8.08
				1	0	22.49	23.19	30	-6.81
	20325	1747.5	16QAM	1	74	22.70	23.40	30	-6.6
				36	18	21.49	22.19	30	-7.81
15				75	0	21.27	21.97	30	-8.03
				1	0	22.47	23.17	30	-6.83
	20025	1717.5	64QAM	1	74	22.16	22.86	30	-7.14
				36	18	21.40	22.10	30	-7.9
				75	0	21.27	21.97	30	-8.03
				1	0	22.48	23.18	30	-6.82
	20175	1732.5	64QAM	1	74	22.16	22.86	30	-7.14
				36	18	21.26	21.96	30	-8.04
				75	0	21.23	21.93	30	-8.07
				1	0	22.49	23.19	30	-6.81
	20325	1747.5	64QAM	1	74	22.38	23.08	30	-6.92
				36	18	21.20	21.90	30	-8.1
				75	0	21.30	22.00	30	-8
				1	0 74	19.32 19.29	20.02 19.99	30 30	-9.98
	20025	1717.5	256QAM						-10.01
	20025 1717.5 256QAWI		36 75	18 0	18.58 18.50	19.28 19.20	30 30	-10.72 -10.8	
		75 1	0	18.50	20.01	30	- 10.8 -9.99		
		20175 1732.5 256QAM	1	74	19.31	20.01 20.11	30	-9.99	
	20175		36	74 18	19.41 18.57	19.27	30	-9.89	
				36 75	0	18.57	19.27	30	-10.73
				75 1	0	18.53	20.05	30	-10.77
				1	74	19.35	19.93		-9.95
	20325	1747.5	256QAM				19.93	30	
				36	18	18.60		30	-10.7
				75	0	18.50	19.20	30	-10.8

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		0.7	LTF Ba	nd 4 Uplink	frequen	cy band	: 1710 to 1755 MH	7	
			212 30			Conduc		_	
-		Frequenc				ted	EIRP	EIRP	
BW	UL	y.	Modulation	RB Size	RB Offset	Averag	Average	Limit	Margin (dB)
MHz)	Channel	(MHz)		Size	Oliset	е	(dBm)	(dBm)	(ав)
						(dBm)			
				1	0	23.38	24.08	30	-5.92
	20050	1720	QPSK	1	99	23.37	24.07	30	-5.93
	20000		Q. OK	50	25	22.39	23.09	30	-6.91
				100	0	22.35	23.05	30	-6.95
				1	0	23.36	24.06	30	-5.94
	20175	1732.5	QPSK	1	99	23.17	23.87	30	-6.13
				50	25	22.35	23.05	30	-6.95
				100	0	22.38	23.08	30	-6.92
				1	0	23.34	24.04	30	-5.96
	20300	1745	QPSK	1	99	23.21	23.91	30	-6.09
			-	50	25	22.41	23.11	30	-6.89
				100	0	22.40	23.10	30	-6.9
				1	0	23.14	23.84	30	-6.16
	20050	1720	16QAM	1	99	22.44	23.14	30	-6.86
				50	25	21.42	22.12	30	-7.88
				100	0	21.45	22.15	30	-7.85
				1	0	22.56	23.26	30	-6.74
	20175	1732.5	16QAM	1	99	22.43	23.13	30	-6.87
				50	25	21.40	22.10	30	-7.9
				100	0	21.31	22.01	30	-7.99
				1	0	22.60	23.30	30	-6.7
	20300	1745	16QAM	1	99	22.80	23.50	30	-6.5
				50	25	21.50	22.20	30	-7.8
20				100	0	21.43	22.13	30 30	-7.87
				1	0	22.47 22.29	23.17 22.99	30	-6.83
	20050	1720	64QAM	1	99		22.99		-7.01
				50	25	21.46	22.16	30 30	-7.84 -7.84
				100	0	21.46 22.48	22.16	30	-7.84
				1	0 99	22.48	22.99	30	-0.82
	20175	1732.5	64QAM	1 50	25	22.29	22.99	30	-7.94
				100	25	21.30	22.00	30	-7.99
				100	0	22.49	22.01	30	-6.81
				1	99	22.49	23.19	30	-6.82
	20300	1745	64QAM			21.34	22.04	30	-7.96
				50 100	25 0	21.34	22.04	30	-7.96
				100	0	19.36	22.04	30	-7.90
				1	99	19.31	20.00	30	-9.99
	20050	1720	256QAM	50	25	18.62	19.32	30	-10.68
				100	0	18.68	19.38	30	-10.62
				100	0	19.38	20.08	30	-9.92
				1	99	19.43	20.00	30	-9.87
	20175	1732.5	256QAM	50	25	18.61	19.31	30	-10.69
				100	0	18.69	19.39	30	-10.61
				100	0	19.41	20.11	30	-9.89
				1	99	19.36	20.06	30	-9.94
	20300	1745	256QAM	50	25	18.62	19.32	30	-10.68
		1743		50	20	18.67	19.37	50	10.00

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# Report No.: ER/2020/30083 Page 48 of 554



BW (MHz)	UL	_			Danu J_Opini					
	Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	k frequency band : Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	23.01	19.06	21.21	38.45	-19.39
	20407	824.7	QPSK	1	5	23.03	19.08	21.23	38.45	-19.37
	20107	021.7	Q1 SIX	3	2	23.07	19.12	21.27	38.45	-19.33
				6	0	22.11	18.16	20.31	38.45	-20.29
				1	0	22.87	18.92	21.07	38.45	-19.53
	20525	836.5	QPSK	1	5	22.92	18.97	21.12	38.45	-19.48
	20020	00010	<b>Q</b> , or <b>(</b>	3	2	23.03	19.08	21.23	38.45	-19.37
l.				6	0	21.97	18.02	20.17	38.45	-20.43
				1	0	22.68	18.73	20.88	38.45	-19.72
	20643	848.3	QPSK	1	5	22.87	18.92	21.07	38.45	-19.53
	20043	040.5	QI SIX	3	2	22.58	18.63	20.78	38.45	-19.82
				6	0	21.70	17.75	19.90	38.45	-20.70
ſ				1	0	22.30	18.35	20.50	38.45	-20.10
	20407	824.7	16QAM	1	5	22.24	18.29	20.44	38.45	-20.16
	20407	024.7	TOCAN	3	2	22.25	18.30	20.45	38.45	-20.15
				6	0	21.12	17.17	19.32	38.45	-21.28
Γ				1	0	21.88	17.93	20.08	38.45	-20.52
	20525	836.5	16QAM	1	5	21.94	17.99	20.14	38.45	-20.46
	20325	030.5	TOQAM	3	2	22.15	18.20	20.35	38.45	-20.25
				6	0	21.04	17.09	19.24	38.45	-21.36
ľ				1	0	22.23	18.28	20.43	38.45	-20.17
	20442	040.2	140 004	1	5	21.91	17.96	20.11	38.45	-20.49
	20643	848.3	16QAM	3	2	21.68	17.73	19.88	38.45	-20.72
1.4				6	0	20.69	16.74	18.89	38.45	-21.71
1.4				1	0	22.31	18.36	20.51	38.45	-20.09
	20407	0047	(10.004	1	5	22.48	18.53	20.68	38.45	-19.92
	20407	824.7	64QAM	3	2	22.18	18.23	20.38	38.45	-20.22
				6	0	21.11	17.16	19.31	38.45	-21.29
F				1	0	22.43	18.48	20.63	38.45	-19.97
	00505	0015	(10.004	1	5	22.12	18.17	20.32	38.45	-20.28
	20525	836.5	64QAM	3	2	22.02	18.07	20.22	38.45	-20.38
				6	0	20.98	17.03	19.18	38.45	-21.42
ŀ				1	0	21.97	18.02	20.17	38.45	-20.43
				1	5	21.74	17.79	19.94	38.45	-20.66
	20643	848.3	64QAM	3	2	21.75	17.80	19.95	38.45	-20.65
				6	0	20.68	16.73	18.88	38.45	-21.72
ŀ				1	0	19.90	15.95	18.10	38.45	-22.50
				1	5	20.31	16.36	18.51	38.45	-22.09
	20407	824.7	256QAM	3	2	19.70	15.75	17.90	38.45	-22.70
				6	0	19.62	15.67	17.82	38.45	-22.78
ŀ				1	0	20.22	16.27	18.42	38.45	-22.18
				1	5	20.06	16.11	18.26	38.45	-22.34
	20525	836.5	256QAM	3	2	19.73	15.78	17.93	38.45	-22.67
				6	0	19.56	15.61	17.76	38.45	-22.84
ŀ				1	0	20.16	16.21	18.36	38.45	-22.24
				1	5	20.09	16.14	18.29	38.45	-22.31
	20643	848.3	256QAM	3	2	19.59	15.64	17.79	38.45	-22.81
				6	0	19.59	15.63	17.79	38.45	-22.81

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# Report No.: ER/2020/30083 Page 49 of 554



interina g	iain (dBi)	-1.8		1.75	Dond E. Unlin	k fraguanay hand .				
					Band 5_Uplin	k frequency band :		FIDD	EDD	
BW	UL	Frequency	Modulation	RB	RB	Conducted	ERP	EIRP	ERP	Margir
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average (dBm)	Average (dBm)	Average (dBm)	Limit (dBm)	(dB)
				1	0	22.70	(UBIII) 18.75	20.90	38.45	-19.70
				1	14	22.70	18.76	20.91	38.45	-19.69
	20415	825.5	QPSK	8	4	21.90	17.95	20.10	38.45	-17.0
				15	4	21.88	17.93	20.08	38.45	-20.52
				13	0	22.84	18.89	20.08	38.45	-20.52
				1	14	22.84	18.92	21.04	38.45	-19.50
	20525	836.5	QPSK	8	4	22.07	18.09	20.24	38.45	-19.3
				-	4					
				15	-	21.86	17.91	20.06	38.45	-20.54
				1	0	22.75	18.80	20.95	38.45	-19.6
	20635	847.5	QPSK	1	14	22.58	18.63	20.78	38.45	-19.82
				8	4	21.75	17.80	19.95	38.45	-20.6
				15	0	22.02	18.07	20.22	38.45	-20.38
				1	0	22.28	18.33	20.48	38.45	-20.12
	20415	825.5	16QAM	1	14	21.72	17.77	19.92	38.45	-20.68
				8	4	21.02	17.07	19.22	38.45	-21.3
				15	0	20.89	16.94	19.09	38.45	-21.5
				1	0	22.54	18.59	20.74	38.45	-19.8
	20525	836.5	16QAM	1	14	22.23	18.28	20.43	38.45	-20.1
	20020	030.5	100/101	8	4	20.79	16.84	18.99	38.45	-21.6
				15	0	20.89	16.94	19.09	38.45	-21.5
				1	0	22.12	18.17	20.32	38.45	-20.2
	20/25	0.47.5	1/0 444	1	14	21.96	18.01	20.16	38.45	-20.4
	20635	847.5	16QAM	8	4	20.82	16.87	19.02	38.45	-21.5
0				15	0	20.91	16.96	19.11	38.45	-21.4
3				1	0	22.38	18.43	20.58	38.45	-20.0
				1	14	22.46	18.51	20.66	38.45	-19.9
	20415	825.5	64QAM	8	4	21.19	17.24	19.39	38.45	-21.2
				15	0	20.92	16.97	19.12	38.45	-21.4
				1	0	22.49	18.54	20.69	38.45	-19.9
				1	14	22.10	18.15	20.30	38.45	-20.3
	20525	836.5	64QAM	8	4	21.02	17.07	19.22	38.45	-21.3
				15	0	20.99	17.04	19.19	38.45	-21.4
		ł		10	0	22.33	18.38	20.53	38.45	-20.0
				1	14	21.71	17.76	19.91	38.45	-20.6
	20635	847.5	64QAM	8	4	21.07	17.12	19.27	38.45	-20.0
				0 15	4	20.68				
					0		16.73	18.88	38.45	-21.7
				1	-	20.07	16.12	18.27	38.45	-22.3
	20415	825.5	256QAM	1	14	20.35	16.40	18.55	38.45	
				8	4	19.85	15.90	18.05	38.45	-22.5
				15	0	19.78	15.83	17.98	38.45	-22.6
				1	0	20.39	16.44	18.59	38.45	-22.0
	20525	836.5	256QAM	1	14	20.17	16.22	18.37	38.45	-22.2
				8	4	19.76	15.81	17.96	38.45	-22.6
				15	0	19.63	15.68	17.83	38.45	-22.7
				1	0	20.30	16.35	18.50	38.45	-22.1
	20635	847.5	256QAM	1	14	20.23	16.28	18.43	38.45	-22.1
	20000	017.0	2000/101	8	4	19.68	15.73	17.88	38.45	-22.72
		1		15	0	19.74	15.79	17.94	38.45	-22.66

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# Report No.: ER/2020/30083 Page 50 of 554



Antenna g	iain (dBi)	-1.8								
				LTE	Band 5_Uplin	k frequency band	: 824 to 849 MHz			
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
()		(				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	22.89	18.94	21.09	38.45	-19.51
	20425	826.5	QPSK	1	24	22.76	18.81	20.96	38.45	-19.64
				12	6	21.92	17.97	20.12	38.45	-20.48
				25	0	22.05	18.10	20.25	38.45	-20.35
				1	0 24	23.01 22.98	19.06	21.21	38.45 38.45	-19.39
	20525	836.5	QPSK	1			19.03	21.18		-19.42
				12	6	22.05	18.10	20.25	38.45	-20.35
				25	0	22.05	18.10	20.25	38.45	-20.35
				1	0	22.82	18.87	21.02	38.45	-19.58
	20625	846.5	QPSK	1	24	22.68	18.73	20.88	38.45	-19.72
				12	6	21.85	17.90	20.05	38.45	-20.55
				25	0	22.02	18.07	20.22	38.45	-20.38
				1	0	22.28	18.33	20.48	38.45	-20.12
	20425	826.5	16QAM	1	24	21.89	17.94	20.09	38.45	-20.51
				12	6	21.08	17.13	19.28	38.45	-21.32
				25	0	21.02	17.07	19.22	38.45	-21.38
				1	0	22.58	18.63	20.78	38.45	-19.82
	20525	836.5	16QAM	1	24	22.35	18.40	20.55	38.45	-20.05
	20323	030.5	100/101	12	6	20.92	16.97	19.12	38.45	-21.48
				25	0	21.05	17.10	19.25	38.45	-21.35
				1	0	22.25	18.30	20.45	38.45	-20.15
	20625	846.5	16QAM	1	24	22.11	18.16	20.31	38.45	-20.29
	20025	040.0	TOQAW	12	6	20.98	17.03	19.18	38.45	-21.42
5				25	0	20.93	16.98	19.13	38.45	-21.47
Э				1	0	22.49	18.54	20.69	38.45	-19.91
	20425	027 5	(40.004	1	24	22.46	18.51	20.66	38.45	-19.94
	20425	826.5	64QAM	12	6	21.27	17.32	19.47	38.45	-21.13
				25	0	22.44	18.49	20.64	38.45	-19.96
				1	0	22.35	18.40	20.55	38.45	-20.05
	00505	00/ 5	( ( 0, 1) (	1	24	22.19	18.24	20.39	38.45	-20.21
	20525	836.5	64QAM	12	6	21.12	17.17	19.32	38.45	-21.28
				25	0	21.17	17.22	19.37	38.45	-21.23
				1	0	22.45	18.50	20.65	38.45	-19.95
				1	24	21.85	17.90	20.05	38.45	-20.55
	20625	846.5	64QAM	12	6	21.07	17.12	19.27	38.45	-21.33
				25	0	20.87	16.92	19.07	38.45	-21.53
				1	0	20.41	16.46	18.61	38.45	-21.99
				1	24	20.35	16.40	18.55	38.45	-22.05
	20425	826.5	256QAM	12	6	19.91	15.96	18.11	38.45	-22.49
				25	0	19.91	15.87	18.02	38.45	-22.49
				1	0	20.44	16.49	18.64	38.45	-22.30
				1	24	20.23	16.28	18.43	38.45	-21.90
	20525	836.5	256QAM	12	6	19.80	15.85	18.00	38.45	-22.60
				25	0					-22.60
		ļ				19.81	15.86	18.01	38.45	
				1	0	20.47	16.52	18.67	38.45	-21.93
	20625	846.5	256QAM	1	24	20.28	16.33	18.48	38.45	-22.12
				12	6	19.74	15.79	17.94	38.45	-22.66
				25	0	19.83	15.88	18.03	38.45	-22.57

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# Report No.: ER/2020/30083 Page 51 of 554



Antenna g	jain (dBi)	-1.8								
	-		-	LTE	Band 5_Uplin	k frequency band	: 824 to 849 MHz			
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
(		(				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	23.03	19.08	21.23	38.45	-19.37
	20450	829	QPSK	1	49	22.87	18.92	21.07	38.45	-19.53
				25	12	22.11	18.16	20.31	38.45	-20.29
				50	0	22.22	18.27	20.42	38.45	-20.18
				1	0	23.09	19.14	21.29	38.45	-19.31
	20525	836.5	QPSK	1	49	23.07	19.12	21.27	38.45	-19.33
				25	12	22.07	18.12	20.27	38.45	-20.33
				50	0	22.17	18.22	20.37	38.45	-20.23
				1	0	22.98	19.03	21.18	38.45	-19.42
	20600	844	QPSK	1	49	22.54	18.59	20.74	38.45	-19.86
				25	12	22.00	18.05	20.20	38.45	-20.40
				50	0	22.05	18.10	20.25	38.45	-20.35
				1	0	22.36	18.41	20.56	38.45	-20.04
	20450	829	16QAM	1	49	21.92	17.97	20.12	38.45	-20.48
				25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.21	17.26	19.41	38.45	-21.19
				1	0	22.75	18.80	20.95	38.45	-19.65
	20525	836.5	16QAM	1	49	22.35	18.40	20.55	38.45	-20.05
	20020	00010	102.111	25	12	21.08	17.13	19.28	38.45	-21.32
				50	0	21.08	17.13	19.28	38.45	-21.32
				1	0	22.33	18.38	20.53	38.45	-20.07
	20600	844	16QAM	1	49	22.28	18.33	20.48	38.45	-20.12
	20000	044	TOQAM	25	12	21.09	17.14	19.29	38.45	-21.31
10				50	0	21.03	17.08	19.23	38.45	-21.37
10				1	0	22.48	18.53	20.68	38.45	-19.92
	20450	829	64QAM	1	49	22.49	18.54	20.69	38.45	-19.91
	20430	02.7	04QAW	25	12	21.27	17.32	19.47	38.45	-21.13
				50	0	21.16	17.21	19.36	38.45	-21.24
				1	0	22.47	18.52	20.67	38.45	-19.93
	20525	024 E	64QAM	1	49	22.25	18.30	20.45	38.45	-20.15
	20525	836.5	64QAW	25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.21	17.26	19.41	38.45	-21.19
				1	0	22.46	18.51	20.66	38.45	-19.94
	20/00	044	( 40 AM	1	49	21.86	17.91	20.06	38.45	-20.54
	20600	844	64QAM	25	12	21.15	17.20	19.35	38.45	-21.25
				50	0	21.06	17.11	19.26	38.45	-21.34
				1	0	20.34	16.39	18.54	38.45	-22.06
	20450	000	25/0444	1	49	20.50	16.55	18.70	38.45	-21.90
	20450	829	256QAM	25	12	19.93	15.98	18.13	38.45	-22.47
				50	0	19.98	16.03	18.18	38.45	-22.42
				1	0	20.44	16.49	18.64	38.45	-21.96
	00505	0015	05/000	1	49	20.40	16.45	18.60	38.45	-22.00
	20525	836.5	256QAM	25	12	19.86	15.91	18.06	38.45	-22.54
				50	0	19.81	15.86	18.01	38.45	-22.59
				1	0	20.47	16.52	18.67	38.45	-21.93
				1	49	20.43	16.48	18.63	38.45	-21.97
	20600	844	256QAM	25	12	19.81	15.86	18.01	38.45	-22.59
				50	0	19.91	15.96	18.11	38.45	-22.49

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# Report No.: ER/2020/30083 Page 52 of 554

Intenna g	jain (dBi)	-0.5							
			LTE Ban	d 7_Up	link freq	uency band : 250	0 to 2570 MHz	·	- -
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.43	21.93	33	-11.07
				1	24	22.45	21.95	33	-11.05
	20775	2502.5	QPSK	12	6	21.62	21.12	33	-11.88
				25	0	21.56	21.06	33	-11.94
				1	0	22.37	21.87	33	-11.13
	21100	2525	ODCK	1	24	22.41	21.91	33	-11.09
	21100	2535	QPSK	12	6	21.60	21.10	33	-11.9
				25	0	21.63	21.13	33	-11.87
				1	0	22.46	21.96	33	-11.04
	21275		ODCK	1	24	22.47	21.97	33	-11.03
	21375	2567.5	QPSK	12	6	21.66	21.16	33	-11.84
				25	0	21.68	21.18	33	-11.82
				1	0	21.74	21.24	33	-11.76
	20775	25.02.5	1/0 414	1	24	21.66	21.16	33	-11.84
	20775	2502.5	16QAM	12	6	20.65	20.15	33	-12.85
				25	0	20.54	20.04	33	-12.96
				1	0	21.80	21.30	33	-11.7
	01100	2525	1/0 414	1	24	21.70	21.20	33	-11.8
	21100	2535	16QAM	12	6	20.65	20.15	33	-12.85
				25	0	20.62	20.12	33	-12.88
				1	0	21.66	21.16	33	-11.84
	04075		1/0.004	1	24	21.64	21.14	33	-11.86
	21375	2567.5	16QAM	12	6	20.68	20.18	33	-12.82
F		21375 2567.5 16QAW		25	0	20.68	20.18	33	-12.82
5				1	0	21.50	21.00	33	-12
	20775	25.02.5	( 40 004	1	24	21.46	20.96	33	-12.04
	20775	2502.5	64QAM	12	6	20.59	20.09	33	-12.91
				25	0	20.63	20.13	33	-12.87
				1	0	21.48	20.98	33	-12.02
	21100	2525	640000	1	24	21.44	20.94	33	-12.06
	21100	2535	64QAM	12	6	20.54	20.04	33	-12.96
				25	0	20.50	20.00	33	-13
				1	0	21.48	20.98	33	-12.02
	21375	2567.5	640AM	1	24	21.47	20.97	33	-12.03
	213/3	2007.5		12	6	20.57	20.07	33	-12.93
				25	0	20.61	20.11	33	-12.89
				1	0	18.49	17.99	33	-15.01
	20775	2502.5	256QAM	1	24	18.43	17.93	33	-15.07
	20775	2002.0	230QAW	12	6	18.18	17.68	33	-15.32
				25	0	18.30	17.80	33	-15.2
				1	0	18.47	17.97	33	-15.03
	21100	2535	256QAM	1	24	18.41	17.91	33	-15.09
	21100	2000	2002710	12	6	18.08	17.58	33	-15.42
				25	0	18.10	17.60	33	-15.4
				1	0	18.41	17.91	33	-15.09
	21375	2567.5	256QAM	1	24	18.35	17.85	33	-15.15
	21373	2007.0	2002710	12	6	18.04	17.54	33	-15.46
				25	0	18.17	17.67	33	-15.33

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# Report No.: ER/2020/30083 Page 53 of 554

Antenna g	gain (dBi)	-0.5							
			LTE Ban	d 7_Up	link freq	uency band : 250	0 to 2570 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.29	21.79	33	-11.21
			0.001/	1	49	22.53	22.03	33	-10.97
	20800	2505	QPSK	25	12	21.45	20.95	33	-12.05
				50	0	21.46	20.96	33	-12.04
				1	0	22.28	21.78	33	-11.22
	01100	0505	0001	1	49	22.39	21.89	33	-11.11
	21100	2535	QPSK	25	12	21.45	20.95	33	-12.05
				50	0	21.48	20.98	33	-12.02
				1	0	22.24	21.74	33	-11.26
	21250		ODCK	1	49	22.54	22.04	33	-10.96
	21350	2565	QPSK	25	12	21.47	20.97	33	-12.03
				50	0	21.48	20.98	33	-12.02
				1	0	21.47	20.97	33	-12.03
	20800	2505	140 004	1	49	21.43	20.93	33	-12.07
	20800	2505	16QAM	25	12	20.47	19.97	33	-13.03
				50	0	20.31	19.81	33	-13.19
				1	0	21.52	21.02	33	-11.98
	21100	2535	16QAM	1	49	21.50	21.00	33	-12
	21100	2535	TOQAW	25	12	20.48	19.98	33	-13.02
				50	0	20.48	19.98	33	-13.02
				1	0	21.33	20.83	33	-12.17
	01050	2575	1/0 414	1	49	21.75	21.25	33	-11.75
	21350	2565	16QAM	25	12	20.48	19.98	33	-13.02
10			_	50	0	20.28	19.78	33	-13.22
10				1	0	21.48	20.98	33	-12.02
	20800	2505	64QAM	1	49	21.25	20.75	33	-12.25
	20800	2505	04QAW	25	12	20.46	19.96	33	-13.04
				50	0	20.47	19.97	33	-13.03
				1	0	21.32	20.82	33	-12.18
	21100	2535	64QAM	1	49	21.49	20.99	33	-12.01
	21100	2555	04QAW	25	12	20.34	19.84	33	-13.16
				50	0	20.67	20.17	33	-12.83
				1	0	21.32	20.82	33	-12.18
	21350	2565	64QAM	1	49	21.24	20.74	33	-12.26
	21000	2303	04070	25	12	20.40	19.90	33	-13.1
				50	0	20.59	20.09	33	-12.91
				1	0	18.38	17.88	33	-15.12
	20800	2505	256QAM	1	49	18.42	17.92	33	-15.08
	20000	2000	2000/111	25	12	18.04	17.54	33	-15.46
				50	0	18.03	17.53	33	-15.47
				1	0	18.32	17.82	33	-15.18
	21100	2535	256QAM	1	49	18.45	17.95	33	-15.05
	2.100	2000	20002100	25	12	17.94	17.44	33	-15.56
				50	0	17.98	17.48	33	-15.52
				1	0	18.30	17.80	33	-15.2
	21350	2565	256QAM	1	49	18.45	17.95	33	-15.05
		2000		25	12	17.93	17.43	33	-15.57
				50	0	17.97	17.47	33	-15.53

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# Report No.: ER/2020/30083 Page 54 of 554

ntenna o	jain (dBi)	-0.5							
		·	LTE Ban	d 7_Up	link freq	uency band : 250	0 to 2570 MHz		·
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.37	21.87	33	-11.13
	20025		ODCK	1	74	22.64	22.14	33	-10.86
	20825	2507.5	QPSK	36	18	21.55	21.05	33	-11.95
				75	0	21.48	20.98	33	-12.02
				1	0	22.42	21.92	33	-11.08
	21100	2525	QPSK	1	74	22.53	22.03	33	-10.97
	21100	2535	QPSK	36	18	21.56	21.06	33	-11.94
				75	0	21.65	21.15	33	-11.85
				1	0	22.33	21.83	33	-11.17
	21375	2562.5	QPSK	1	74	22.61	22.11	33	-10.89
	21375	2502.5	UPSK	36	18	21.57	21.07	33	-11.93
				75	0	21.51	21.01	33	-11.99
				1	0	21.53	21.03	33	-11.97
	20025		140 004	1	74	21.59	21.09	33	-11.91
	20825	2507.5	16QAM	36	18	20.48	19.98	33	-13.02
				75	0	20.37	19.87	33	-13.13
				1	0	21.71	21.21	33	-11.79
	21100	2525	140 004	1	74	21.53	21.03	33	-11.97
	21100	2535	16QAM	36	18	20.56	20.06	33	-12.94
				75	0	20.54	20.04	33	-12.96
				1	0	21.48	20.98	33	-12.02
	01075		1/0 414	1	74	21.94	21.44	33	-11.56
	21375	2562.5	16QAM	36	18	20.50	20.00	33	-13
15				75	0	20.47	19.97	33	-13.03
15				1	0	21.47	20.97	33	-12.03
	20825	2507.5	64QAM	1	74	21.37	20.87	33	-12.13
	20825	2507.5	64QAW	36	18	20.52	20.02	33	-12.98
				75	0	20.51	20.01	33	-12.99
				1	0	21.46	20.96	33	-12.04
	21100	2535	64QAM	1	74	21.49	20.99	33	-12.01
	21100	2000	04QAW	36	18	20.45	19.95	33	-13.05
				75	0	20.68	20.18	33	-12.82
				1	0	21.44	20.94	33	-12.06
	21375	2562.5	64QAM	1	74	21.36	20.86	33	-12.14
	213/3	2002.0		36	18	20.50	20.00	33	-13
				75	0	20.64	20.14	33	-12.86
				1	0	18.31	17.81	33	-15.19
	20825	2507.5	256QAM	1	74	18.46	17.96	33	-15.04
	20020	2007.0	2000/101	36	18	18.02	17.52	33	-15.48
				75	0	17.93	17.43	33	-15.57
				1	0	18.18	17.68	33	-15.32
	21100	2535	256QAM	1	74	18.48	17.98	33	-15.02
	21100	2000	20007101	36	18	17.95	17.45	33	-15.55
				75	0	17.85	17.35	33	-15.65
				1	0	18.34	17.84	33	-15.16
	21375	2562.5	256QAM	1	74	18.44	17.94	33	-15.06
	213/3	2002.0	230QAW	36	18	17.97	17.47	33	-15.53
				75	0	17.93	17.43	33	-15.57

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# Report No.: ER/2020/30083 Page 55 of 554

Antenna g	jain (dBi)	-0.5							
			LTE Ban	d 7_Up	link freq	uency band : 250	0 to 2570 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.55	22.05	33	-10.95
	20850	2510	QPSK	1	99	22.70	22.20	33	-10.8
	20030	2310	QFSK	50	25	21.61	21.11	33	-11.89
				100	0	21.58	21.08	33	-11.92
				1	0	22.51	22.01	33	-10.99
	21100	2535	QPSK	1	99	22.60	22.10	33	-10.9
	21100	2000	QI OK	50	25	21.62	21.12	33	-11.88
				100	0	21.68	21.18	33	-11.82
				1	0	22.50	22.00	33	-11
	21350	2560	QPSK	1	99	22.71	22.21	33	-10.79
	21000	2000	QI OK	50	25	21.67	21.17	33	-11.83
				100	0	21.62	21.12	33	-11.88
				1	0	21.58	21.08	33	-11.92
	20850	2510	16QAM	1	99	21.73	21.23	33	-11.77
	20050	2310	100/101	50	25	20.57	20.07	33	-12.93
				100	0	20.54	20.04	33	-12.96
				1	0	21.86	21.36	33	-11.64
	21100	2535	16QAM	1	99	21.63	21.13	33	-11.87
	21100	2000	100/101	50	25	20.71	20.21	33	-12.79
				100	0	20.67	20.17	33	-12.83
				1	0	21.61	21.11	33	-11.89
	21350	2560	16QAM	1	99	22.10	21.60	33	-11.4
	21330	2500	TOQAM	50	25	20.67	20.17	33	-12.83
20				100	0	20.64	20.14	33	-12.86
20				1	0	21.49	20.99	33	-12.01
	20850	2510	64QAM	1	99	21.42	20.92	33	-12.08
	20030	2310	04070	50	25	20.57	20.07	33	-12.93
				100	0	20.59	20.09	33	-12.91
				1	0	21.48	20.98	33	-12.02
	21100	2535	64QAM	1	99	21.43	20.93	33	-12.07
	21100	2000	040700	50	25	20.60	20.10	33	-12.9
				100	0	20.77	20.27	33	-12.73
				1	0	21.44	20.94	33	-12.06
	21350	2560	64QAM	1	99	21.46	20.96	33	-12.04
	21000	2000	0.0.0	50	25	20.68	20.18	33	-12.82
				100	0	20.66	20.16	33	-12.84
				1	0	18.40	17.90	33	-15.1
	20850	2510	256QAM	1	99	18.50	18.00	33	-15
	20000	2010	2004.1	50	25	18.04	17.54	33	-15.46
				100	0	18.00	17.50	33	-15.5
				1	0	18.36	17.86	33	-15.14
	21100	2535	256QAM	1	99	18.48	17.98	33	-15.02
				50	25	18.02	17.52	33	-15.48
				100	0	17.87	17.37	33	-15.63
				1	0	18.40	17.90	33	-15.1
	21350	2560	256QAM	1	99	18.49	17.99	33	-15.01
	2.000	2000	20002/101	50	25	18.03	17.53	33	-15.47
				100	0	17.98	17.48	33	-15.52

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# Report No.: ER/2020/30083 Page 56 of 554



Antenna g	ain (dBi)	-3.8								
				LTE	Band 12_Uplin	nk frequency band			-	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average	ERP Average	EIRP Average	ERP Limit	Margin (dB)
	Channer	(101112)				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	22.70	16.75	18.90	34.77	-18.02
	23017	699.7	QPSK	1	5	22.70	16.75	18.90	34.77	-18.02
	20017	0,,,,,	Q. OK	3	2	22.79	16.84	18.99	34.77	-17.93
				6	0	21.72	15.77	17.92	34.77	-19.00
				1	0	22.66	16.71	18.86	34.77	-18.06
	23095	707.5	QPSK	1	5	22.78	16.83	18.98	34.77	-17.94
				3	2	22.76	16.81	18.96	34.77	-17.96
				6	0	21.70	15.75	17.90	34.77	-19.02
				1	0	22.59	16.64	18.79	34.77	-18.13
	23173	715.5	QPSK	1	5	22.59	16.64	18.79	34.77	-18.13
	20170	710.0	Q1 SIX	3	2	22.67	16.72	18.87	34.77	-18.05
				6	0	21.62	15.67	17.82	34.77	-19.10
				1	0	21.77	15.82	17.97	34.77	-18.95
	23017	699.7	16QAM	1	5	21.88	15.93	18.08	34.77	-18.84
	23017	077.1	100/101	3	2	21.85	15.90	18.05	34.77	-18.87
				6	0	20.84	14.89	17.04	34.77	-19.88
				1	0	22.16	16.21	18.36	34.77	-18.56
	23095	707.5	16QAM	1	5	21.89	15.94	18.09	34.77	-18.83
	23073	707.5	TOQAM	3	2	21.94	15.99	18.14	34.77	-18.78
				6	0	20.79	14.84	16.99	34.77	-19.93
				1	0	21.73	15.78	17.93	34.77	-18.99
	23173	715 5	16QAM	1	5	21.81	15.86	18.01	34.77	-18.91
	231/3	715.5	TOQAW	3	2	21.70	15.75	17.90	34.77	-19.02
1.4				6	0	20.89	14.94	17.09	34.77	-19.83
1.4				1	0	22.23	16.28	18.43	34.77	-18.49
	22017	600.7	640004	1	5	21.93	15.98	18.13	34.77	-18.79
	23017	699.7	64QAM	3	2	21.74	15.79	17.94	34.77	-18.98
				6	0	20.63	14.68	16.83	34.77	-20.09
				1	0	21.87	15.92	18.07	34.77	-18.85
	2200E	707.5	640004	1	5	21.92	15.97	18.12	34.77	-18.80
	23095	707.5	64QAM	3	2	21.95	16.00	18.15	34.77	-18.77
				6	0	20.84	14.89	17.04	34.77	-19.88
				1	0	22.12	16.17	18.32	34.77	-18.60
	22172	715 5	( 40 AM	1	5	21.62	15.67	17.82	34.77	-19.10
	23173	715.5	64QAM	3	2	21.75	15.80	17.95	34.77	-18.97
				6	0	20.61	14.66	16.81	34.77	-20.11
				1	0	19.17	13.22	15.37	34.77	-21.55
	22017	400.7		1	5	19.17	13.22	15.37	34.77	-21.55
	23017	699.7	256QAM	3	2	18.97	13.02	15.17	34.77	-21.75
				6	0	18.28	12.33	14.48	34.77	-22.44
		1	1	1	0	19.26	13.31	15.46	34.77	-21.46
	22025	707 5	05/000	1	5	19.13	13.18	15.33	34.77	-21.59
	23095	707.5	256QAM	3	2	19.03	13.08	15.23	34.77	-21.69
				6	0	18.06	12.11	14.26	34.77	-22.66
				1	0	19.22	13.27	15.42	34.77	-21.50
	00470	745 5	05/000	1	5	19.08	13.13	15.28	34.77	-21.64
	23173	715.5	256QAM	3	2	19.04	13.09	15.24	34.77	-21.68
				6	0	18.11	12.16	14.31	34.77	-22.61

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# Report No.: ER/2020/30083 Page 57 of 554



Antenna g	ain (dBi)	-3.8			Daniel 10, Lindia	I. f	(00 to 71/ MUL			
				LIE	Band 12_Uplir	k frequency band			500	
BW	UL	Frequency	Madulation	RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
		. ,		1	0	(dBm)	(dBm)	(dBm) 18.88	(dBm)	
				1	-	22.68	16.73		34.77	-18.04
	23025	700.5	QPSK	1	14	22.51	16.56	18.71	34.77	-18.21
				8	4	21.75	15.80	17.95	34.77	-18.97
				15	0	21.74	15.79	17.94	34.77	-18.98
				1	0	22.55	16.60	18.75	34.77	-18.17
	23095	707.5	QPSK	1	14	22.57	16.62	18.77	34.77	-18.15
				8	4	21.74	15.79	17.94	34.77	-18.98
				15	0	21.57	15.62	17.77	34.77	-19.15
				1	0	22.83	16.88	19.03	34.77	-17.89
	23165	714.5	QPSK	1	14	22.55	16.60	18.75	34.77	-18.17
				8	4	21.56	15.61	17.76	34.77	-19.16
				15	0	21.65	15.70	17.85	34.77	-19.07
				1	0	21.73	15.78	17.93	34.77	-18.99
	23025	700.5	16QAM	1	14	22.29	16.34	18.49	34.77	-18.43
				8	4	20.72	14.77	16.92	34.77	-20.00
				15	0	20.70	14.75	16.90	34.77	-20.02
				1	0	22.24	16.29	18.44	34.77	-18.48
	23095	707.5	16QAM	1	14	21.72	15.77	17.92	34.77	-19.00
	20070	707.0	100,111	8	4	20.52	14.57	16.72	34.77	-20.20
				15	0	20.67	14.72	16.87	34.77	-20.05
				1	0	21.62	15.67	17.82	34.77	-19.10
	004/5	7445	1/0.014	1	14	21.78	15.83	17.98	34.77	-18.94
	23165	714.5	16QAM	8	4	20.67	14.72	16.87	34.77	-20.05
				15	0	20.74	14.79	16.94	34.77	-19.98
3				1	0	22.15	16.20	18.35	34.77	-18.57
				1	14	22.18	16.23	18.38	34.77	-18.54
	23025	700.5	64QAM	8	4	20.83	14.88	17.03	34.77	-19.89
				15	4	20.85	14.91	17.06	34.77	-19.86
					0		14.91	18.10	34.77	-19.80
				1	-	21.90				
	23095	707.5	64QAM	1	14	22.13	16.18	18.33	34.77	-18.59
				8	4	20.69	14.74	16.89	34.77	-20.03
				15	0	20.63	14.68	16.83	34.77	-20.09
				1	0	22.15	16.20	18.35	34.77	-18.57
	23165	714.5	64QAM	1	14	22.28	16.33	18.48	34.77	-18.44
	20100	714.5	040/101	8	4	20.66	14.71	16.86	34.77	-20.06
				15	0	20.72	14.77	16.92	34.77	-20.00
				1	0	19.17	13.22	15.37	34.77	-21.55
				1	14	19.22	13.27	15.42	34.77	-21.50
	23025	700.5	256QAM	8	4	18.34	12.39	14.54	34.77	-22.38
				15	0	18.37	12.42	14.57	34.77	-22.35
				1	0	19.37	13.42	15.57	34.77	-21.35
				1	14	19.18	13.23	15.38	34.77	-21.53
	23095	707.5	256QAM							
				8 15	4	18.23	12.28	14.43	34.77	-22.49
				15	0	18.17	12.22	14.37	34.77	-22.55
				1	0	19.27	13.32	15.47	34.77	-21.45
	23165	714.5	256QAM	1	14	19.14	13.19	15.34	34.77	-21.58
				8	4	18.07	12.12	14.27	34.77	-22.65
				15	0	18.30	12.35	14.50	34.77	-22.42

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# Report No.: ER/2020/30083 Page 58 of 554



Antenna g	jain (dBi)	-3.8								
				LTE	Band 12_Uplin	nk frequency band	: 699 to 716 MHz			
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
(1112)	ondimier	(11112)				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	22.70	16.75	18.90	34.77	-18.02
	23035	701.5	QPSK	1	24	22.63	16.68	18.83	34.77	-18.09
				12	6	21.82	15.87	18.02	34.77	-18.90
				25	0	21.93	15.98	18.13	34.77	-18.79
				1	0	22.64	16.69	18.84	34.77	-18.08
	23095	707.5	QPSK	1	24	22.70	16.75	18.90	34.77	-18.02
				12	6	21.80	15.85	18.00	34.77	-18.92
				25	0	21.63	15.68	17.83	34.77	-19.09
				1	0	22.86	16.91	19.06	34.77	-17.86
	23155	713.5	QPSK	1	24	22.51	16.56	18.71	34.77	-18.21
				12	6	21.75	15.80	17.95	34.77	-18.97
				25	0	21.69	15.74	17.89	34.77	-19.03
				1	0	21.88	15.93	18.08	34.77	-18.84
	23035	701.5	16QAM	1	24	22.34	16.39	18.54	34.77	-18.38
	20000	70110	102.111	12	6	20.91	14.96	17.11	34.77	-19.81
				25	0	20.76	14.81	16.96	34.77	-19.96
				1	0	22.25	16.30	18.45	34.77	-18.47
	23095	707.5	16QAM	1	24	21.82	15.87	18.02	34.77	-18.90
	23073	101.5	TOCAN	12	6	20.50	14.55	16.70	34.77	-20.22
				25	0	20.81	14.86	17.01	34.77	-19.91
				1	0	21.65	15.70	17.85	34.77	-19.07
	22155	710 5	1/0 444	1	24	21.96	16.01	18.16	34.77	-18.76
	23155	713.5	16QAM	12	6	20.78	14.83	16.98	34.77	-19.94
F				25	0	20.80	14.85	17.00	34.77	-19.92
5				1	0	22.20	16.25	18.40	34.77	-18.52
		701 5		1	24	22.31	16.36	18.51	34.77	-18.41
	23035	701.5	64QAM	12	6	20.96	15.01	17.16	34.77	-19.76
				25	0	20.88	14.93	17.08	34.77	-19.84
				1	0	21.94	15.99	18.14	34.77	-18.78
				1	24	22.25	16.30	18.45	34.77	-18.47
	23095	707.5	64QAM	12	6	20.78	14.83	16.98	34.77	-19.94
				25	0	20.77	14.82	16.97	34.77	-19.95
				1	0	22.24	16.29	18.44	34.77	-18.48
				1	24	22.30	16.35	18.50	34.77	-18.42
	23155	713.5	64QAM	12	6	20.74	14.79	16.94	34.77	-19.98
				25	0	20.83	14.88	17.03	34.77	-19.89
				1	0	19.32	13.37	15.52	34.77	-21.40
				1	24	19.32	13.37	15.52	34.77	-21.40
	23035	701.5	256QAM	12	6	18.39	12.44	14.59	34.77	-22.33
				25	0	18.38	12.44	14.58	34.77	-22.33
				25	0	19.42	13.47	15.62	34.77	-22.34
				1	24	19.42	13.47	15.55	34.77	-21.30
	23095	707.5	256QAM	12	6	19.33	12.38	14.53	34.77	-21.37
				25	0		12.38	14.53		
						18.24			34.77	-22.48
				1	0	19.45	13.50	15.65	34.77	-21.27
	23155	713.5	256QAM	1	24	19.27	13.32	15.47	34.77	-21.45
				12	6	18.15	12.20	14.35	34.77	-22.57
				25	0	18.37	12.42	14.57	34.77	-22.35

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# Report No.: ER/2020/30083 Page 59 of 554



knienna g	iain (dBi)	-3.8			Pand 12 Unlin	nk frequency band	. 600 to 716 MUz			
	I	<u> </u>		LIE	Band 12_Upin	Conducted	ERP	EIRP	ERP	1
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Average	Limit	Margir
(MHz)	Channel	(MHz)	woodaaton	Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	22.82	16.87	19.02	34.77	-17.90
				1	49	22.72	16.77	18.92	34.77	-18.00
	23060	704	QPSK	25	12	21.88	15.93	18.08	34.77	-18.84
				50	0	21.97	16.02	18.17	34.77	-18.75
				1	0	22.79	16.84	18.99	34.77	-17.93
				1	49	22.78	16.83	18.98	34.77	-17.94
	23095	707.5	QPSK	25	12	21.85	15.90	18.05	34.77	-18.87
				50	0	21.80	15.85	18.00	34.77	-18.92
		-		1	0	22.92	16.97	19.12	34.77	-17.80
				1	49	22.67	16.72	18.87	34.77	-18.05
	23130	711	QPSK	25	12	21.77	15.82	17.97	34.77	-18.95
				50	0	21.81	15.86	18.01	34.77	-18.91
		1		1	0	22.01	16.06	18.21	34.77	-18.71
				1	49	22.45	16.50	18.65	34.77	-18.2
	23060	704	16QAM	25	12	20.94	14.99	17.14	34.77	-19.78
				50	0	20.93	14.98	17.13	34.77	-19.79
		1		1	0	22.34	16.39	18.54	34.77	-18.38
				1	49	22.00	16.05	18.20	34.77	-18.72
	23095	707.5	16QAM	25	12	20.69	14.74	16.89	34.77	-20.03
				50	0	20.89	14.94	17.09	34.77	-19.83
		-		1	0	21.81	15.86	18.01	34.77	-18.9
				1	49	22.14	16.19	18.34	34.77	-18.58
	23130	711	16QAM	25	12	22.14	14.85	17.00	34.77	-18.50
10				50	0	20.85	14.90	17.05	34.77	-19.8
10				1	0	22.24	16.29	18.44	34.77	-18.48
	23060	704	64QAM	1	49	22.34	16.39	18.54	34.77	-18.3
				25	12	20.97	15.02	17.17	34.77	-19.7
				50	0	21.01	15.06	17.21	34.77	-19.7
				1	0	22.00	16.05	18.20	34.77	-18.72
	23095	707.5	64QAM	1	49	22.26	16.31	18.46	34.77	-18.46
	20070	70710	0.0.1	25	12	20.90	14.95	17.10	34.77	-19.82
				50	0	20.91	14.96	17.11	34.77	-19.8
				1	0	22.31	16.36	18.51	34.77	-18.4
	23130	711	64QAM	1	49	22.38	16.43	18.58	34.77	-18.34
	23130	/ 1 1	04QAM	25	12	20.85	14.90	17.05	34.77	-19.87
				50	0	20.87	14.92	17.07	34.77	-19.85
				1	0	19.37	13.42	15.57	34.77	-21.3
	000/0	70.1	05/000	1	49	19.36	13.41	15.56	34.77	-21.36
	23060	704	256QAM	25	12	18.50	12.55	14.70	34.77	-22.2
				50	0	18.44	12.49	14.64	34.77	-22.2
		1		1	0	19.44	13.49	15.64	34.77	-21.28
				1	49	19.39	13.44	15.59	34.77	-21.33
	23095	707.5	256QAM	25	12	18.33	12.38	14.53	34.77	-22.39
				50	0	18.37	12.30	14.57	34.77	-22.3
				1	0	19.46	13.51	15.66	34.77	-22.3
				1	49	19.48	13.46	15.60	34.77	-21.20
	23130	711	256QAM							
				25	12	18.32	12.37	14.52	34.77	-22.40
				50	0	18.38	12.43	14.58	34.77	-22.34

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SGS Taiwan Ltd.

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# Report No.: ER/2020/30083 Page 60 of 554



	gain (dBi)	-1.6	LI	E Ban	d 13_Upli	nk frequency ban	d : 777 to 787 MH	Z													
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)											
				1	0	22.98	19.23	21.38	34.77	-15.54											
	00005	770 5	0.001/	1	24	22.77	19.02	21.17	34.77	-15.75											
	23205	779.5	QPSK	12	6	22.35	18.60	20.75	34.77	-16.17											
				25	0	22.32	18.57	20.72	34.77	-16.20											
				1	0	22.98	19.23	21.38	34.77	-15.54											
	00000	700	0.001/	1	24	22.82	19.07	21.22	34.77	-15.70											
	23230	782	QPSK	12	6	22.32	18.57	20.72	34.77	-16.20											
				25	0	22.49	18.74	20.89	34.77	-16.03											
				1	0	23.26	19.51	21.66	34.77	-15.26											
	22255	704 5	ODCK	1	24	23.07	19.32	21.47	34.77	-15.45											
	23255	784.5	QPSK	12	6	22.31	18.56	20.71	34.77	-16.21											
				25	0	22.42	18.67	20.82	34.77	-16.10											
				1	0	22.33	18.58	20.73	34.77	-16.19											
	22205	770 5	1/0 414	1	24	22.34	18.59	20.74	34.77	-16.18											
	23205	779.5	16QAM	12	6	21.39	17.64	19.79	34.77	-17.13											
				25	0	21.37	17.62	19.77	34.77	-17.15											
				1	0	22.36	18.61	20.76	34.77	-16.16											
	23230	700	140 414	1	24	22.40	18.65	20.80	34.77	-16.12											
	23230	782	16QAM	12	6	21.44	17.69	19.84	34.77	-17.08											
				25	0	21.33	17.58	19.73	34.77	-17.19											
				1	0	22.44	18.69	20.84	34.77	-16.08											
	22255	704 5	1/0 414	1	24	22.44	18.69	20.84	34.77	-16.08											
	23255	784.5	16QAM	16QAM	TOQAIVI	12	6	21.36	17.61	19.76	34.77	-17.16									
5					25	0	21.49	17.74	19.89	34.77	-17.03										
Э				1	0	22.22	18.47	20.62	34.77	-16.30											
	22205	770 F	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	640 004	640 004	1	24	22.35	18.60	20.75	34.77	-16.17
	23205	779.5											12	6	21.35	17.60	19.75	34.77	-17.17		
						25	0	21.37	17.62	19.77	34.77	-17.15									
				1	0	22.32	18.57	20.72	34.77	-16.20											
	23230	782	64QAM	1	24	22.33	18.58	20.73	34.77	-16.19											
	23230	782	04QAW	12	6	21.36	17.61	19.76	34.77	-17.16											
				25	0	21.48	17.73	19.88	34.77	-17.04											
				1	0	22.41	18.66	20.81	34.77	-16.11											
	23255	784.5	64QAM	1	24	22.39	18.64	20.79	34.77	-16.13											
	23200	764.5	04QAW	12	6	21.35	17.60	19.75	34.77	-17.17											
				25	0	21.32	17.57	19.72	34.77	-17.20											
				1	0	19.50	15.75	17.90	34.77	-19.02											
	23205	779.5	256QAM	1	24	19.33	15.58	17.73	34.77	-19.19											
	23205	//9.5	250QAW	12	6	18.46	14.71	16.86	34.77	-20.06											
				25	0	18.46	14.71	16.86	34.77	-20.06											
				1	0	19.47	15.72	17.87	34.77	-19.05											
	22220	700		1	24	19.34	15.59	17.74	34.77	-19.18											
	23230	782	256QAM	12	6	18.40	14.65	16.80	34.77	-20.12											
				25	0	18.34	14.59	16.74	34.77	-20.18											
				1	0	19.39	15.64	17.79	34.77	-19.13											
	00055	70 1 5	05/000	1	24	19.46	15.71	17.86	34.77	-19.06											
	23255	784.5	256QAM	12	6	18.35	14.60	16.75	34.77	-20.17											
				25	0	18.33	14.58	16.73	34.77	-20.19											

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Antenna g	jain (dBi)	-1.6																										
			LT	E Band	d 13_Upli	ink frequency ban	d: 777 to 787 MH	Z																				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)																		
				1	0	23.10	19.35	21.50	34.77	-15.42																		
	23230	782	QPSK	1	49	23.40	19.65	21.80	34.77	-15.12																		
	23230	102	UI JK	25	12	22.27	18.52	20.67	34.77	-16.25																		
				50	0	22.16	18.41	20.56	34.77	-16.36																		
				1	0	22.54	18.79	20.94	34.77	-15.98																		
	23230	782	16QAM	1	49	22.45	18.70	20.85	34.77	-16.07																		
	23230	102	TUCAN	25	12	21.20	17.45	19.60	34.77	-17.32																		
10				50	0	21.24	17.49	19.64	34.77	-17.28																		
10				1	0	22.49	18.74	20.89	34.77	-16.03																		
	23230	782	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	640 AM	640 AM	1	49	22.29	18.54	20.69	34.77	-16.23		
	23230	102																25	12	21.27	17.52	19.67	34.77	-17.25				
				50	0	21.06	17.31	19.46	34.77	-17.46																		
			256QAM -	256QAM	2560 AM	2560AM	2560AM	2560AM	2560AM	2560 AM	2560AM	256QAM	256QAM									1	0	19.36	15.61	17.76	34.77	-19.16
	23230	782												1	49	19.35	15.60	17.75	34.77	-19.17								
	20200	102			25	12	18.94	15.19	17.34	34.77	-19.58																	
				50	0	18.98	15.23	17.38	34.77	-19.54																		

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# Report No.: ER/2020/30083 Page 62 of 554



anienna g	jain (dBi)	-3.9		I TF	Band 17 Unlin	k frequency band	· 704 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.63	16.58	18.73	34.77	-18.19
	23755	706.5	QPSK	1	24	22.84	16.79	18.94	34.77	-17.98
				12	6	21.82	15.77	17.92	34.77	-19.00
				25	0	21.84	15.79	17.94	34.77	-18.98
				1	0	22.69	16.64	18.79	34.77	-18.13
	23790	710	QPSK	1	24	22.81	16.76	18.91	34.77	-18.01
				12	6	21.71	15.66	17.81	34.77	-19.11
				25	0	21.83	15.78	17.93	34.77	-18.99
				1	0	22.63	16.58	18.73	34.77	-18.19
	23825	713.5	QPSK	1	24	22.76	16.71	18.86	34.77	-18.06
				12	6	21.79	15.74	17.89	34.77	-19.03
				25	0	21.72	15.67	17.82	34.77	-19.10
				1	0	22.25	16.20	18.35	34.77	-18.57
	23755	706.5	16QAM	1	24	22.22	16.17	18.32	34.77	-18.60
				12	6	20.89	14.84	16.99	34.77	-19.93
				25	0	20.86	14.81	16.96	34.77	-19.96
				1	0	22.13	16.08	18.23	34.77	-18.69
	23790	710	16QAM	1	24	21.82	15.77	17.92	34.77	-19.00
				12	6	20.81	14.76	16.91	34.77	-20.01
				25	0	20.77	14.72	16.87	34.77	-20.05
				1	0	22.20	16.15	18.30	34.77	-18.62
	23825	713.5	16QAM	1	24	21.87	15.82	17.97	34.77	-18.95
	20020	7 1010	100,111	12	6	20.88	14.83	16.98	34.77	-19.94
5				25	0	20.78	14.73	16.88	34.77	-20.04
0				1	0	21.81	15.76	17.91	34.77	-19.01
	23755	706.5	64QAM	1	24	21.93	15.88	18.03	34.77	-18.89
	20700	700.0	010/11	12	6	20.88	14.83	16.98	34.77	-19.94
				25	0	20.83	14.78	16.93	34.77	-19.99
				1	0	21.84	15.79	17.94	34.77	-18.98
	23790	710	64QAM	1	24	21.76	15.71	17.86	34.77	-19.06
	23770	710	0402AM	12	6	20.88	14.83	16.98	34.77	-19.94
				25	0	20.83	14.78	16.93	34.77	-19.99
				1	0	21.97	15.92	18.07	34.77	-18.85
	23825	713.5	64QAM	1	24	22.01	15.96	18.11	34.77	-18.81
	23025	/13.5	04QAM	12	6	20.75	14.70	16.85	34.77	-20.07
				25	0	20.70	14.65	16.80	34.77	-20.12
				1	0	19.24	13.19	15.34	34.77	-21.58
	22755	704 5	2560 414	1	24	19.29	13.24	15.39	34.77	-21.53
	23755	706.5	256QAM	12	6	18.95	12.90	15.05	34.77	-21.87
				25	0	18.69	12.64	14.79	34.77	-22.13
				1	0	19.32	13.27	15.42	34.77	-21.50
	22700	710	2540 414	1	24	19.28	13.23	15.38	34.77	-21.54
	23790	710	256QAM	12	6	18.79	12.74	14.89	34.77	-22.03
				25	0	18.67	12.62	14.77	34.77	-22.15
				1	0	19.45	13.40	15.55	34.77	-21.37
	00005	740 5	05/000	1	24	19.26	13.21	15.36	34.77	-21.56
	23825	713.5	256QAM	12	6	18.78	12.73	14.88	34.77	-22.04
				25	0	18.75	12.70	14.85	34.77	-22.07

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# Report No.: ER/2020/30083 Page 63 of 554



Antenna g	ain (dBi)	-3.9								
				LTE	Band 17_Uplin	k frequency band	: 704 to 716 MHz			
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
(	ondimot	(				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	22.90	16.85	19.00	34.77	-17.92
	23780	709	QPSK	1	49	23.02	16.97	19.12	34.77	-17.80
				25	12	22.17	16.12	18.27	34.77	-18.65
				50	0	22.15	16.10	18.25	34.77	-18.67
				1	0	22.95	16.90	19.05	34.77	-17.87
	23790	710	QPSK	1	49	23.01	16.96	19.11	34.77	-17.81
				25	12	22.09	16.04	18.19	34.77	-18.73
				50	0	22.05	16.00	18.15	34.77	-18.77
				1	0	23.03	16.98	19.13	34.77	-17.79
	23800	711	QPSK	1	49	23.04	16.99	19.14	34.77	-17.78
	20000		2. 5.	25	12	22.03	15.98	18.13	34.77	-18.79
				50	0	22.04	15.99	18.14	34.77	-18.78
				1	0	22.52	16.47	18.62	34.77	-18.30
	23780	709	16QAM	1	49	22.59	16.54	18.69	34.77	-18.23
	23700	707	1002/101	25	12	21.08	15.03	17.18	34.77	-19.74
				50	0	21.11	15.06	17.21	34.77	-19.71
				1	0	22.52	16.47	18.62	34.77	-18.30
	23790	710	160 004	1	49	22.59	16.54	18.69	34.77	-18.23
	23790	710	16QAM	25	12	20.94	14.89	17.04	34.77	-19.88
				50	0	21.02	14.97	17.12	34.77	-19.80
				1	0	22.30	16.25	18.40	34.77	-18.52
				1	49	22.36	16.31	18.46	34.77	-18.46
	23800	711	16QAM	25	12	21.06	15.01	17.16	34.77	-19.76
				50	0	21.06	15.01	17.16	34.77	-19.76
10				1	0	22.49	16.44	18.59	34.77	-18.33
				1	49	22.32	16.27	18.42	34.77	-18.50
	23780	709	64QAM	25	12	21.10	15.05	17.20	34.77	-19.72
				50	0	21.07	15.02	17.17	34.77	-19.75
				1	0	22.27	16.22	18.37	34.77	-18.55
				1	49	22.15	16.10	18.25	34.77	-18.67
	23790	710	64QAM	25	12	21.16	15.11	17.26	34.77	-19.66
				50	0	21.10	15.06	17.20	34.77	-19.71
				1	0	22.50	16.45	18.60	34.77	-18.32
				1	49	22.48	16.43	18.58	34.77	-18.34
	23800	711	64QAM	25	12	21.07	15.02	17.17	34.77	-10.34
				50	0			17.17		
				50 1	0	21.12	15.07	17.22	34.77	-19.70
						19.38	13.33		34.77	-21.44
	23780	709	256QAM	1	49	19.37	13.32	15.47	34.77	-21.45
				25	12	18.98	12.93	15.08	34.77	-21.84
				50	0	18.82	12.77	14.92	34.77	-22.00
				1	0	19.39	13.34	15.49	34.77	-21.43
	23790	710	256QAM	1	49	19.39	13.34	15.49	34.77	-21.43
				25	12	18.83	12.78	14.93	34.77	-21.99
				50	0	18.85	12.80	14.95	34.77	-21.97
				1	0	19.47	13.42	15.57	34.77	-21.35
	23800	711	256QAM	1	49	19.33	13.28	15.43	34.77	-21.49
			_	25	12	18.86	12.81	14.96	34.77	-21.96
				50	0	18.81	12.76	14.91	34.77	-22.01

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# Report No.: ER/2020/30083 Page 64 of 554

Antenna c	jain (dBi)	-0.7							
	, , ,		LTE Band	d 25_U	olink fred	uency band : 185	50 to 1915 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.19	22.49	33	-10.51
	26055	1851.5	QPSK	1	14	23.05	22.35	33	-10.65
	20033	1051.5	QFSK	8	4	22.42	21.72	33	-11.28
				15	0	22.29	21.59	33	-11.41
				1	0	23.02	22.32	33	-10.68
	26365	1882.5	QPSK	1	14	23.09	22.39	33	-10.61
	20000	1002.0	QI OK	8	4	22.21	21.51	33	-11.49
				15	0	22.17	21.47	33	-11.53
				1	0	22.98	22.28	33	-10.72
	26675	1913.5	QPSK	1	14	22.99	22.29	33	-10.71
	20070	171010	Q. OK	8	4	22.25	21.55	33	-11.45
				15	0	22.09	21.39	33	-11.61
				1	0	22.96	22.26	33	-10.74
	26055	1851.5	16QAM	1	14	22.20	21.50	33	-11.5
	20000	100110	102.111	8	4	21.24	20.54	33	-12.46
				15	0	21.22	20.52	33	-12.48
				1	0	22.26	21.56	33	-11.44
	26365	1882.5	16QAM	1	14	22.53	21.83	33	-11.17
				8	4	20.99	20.29	33	-12.71
				15	0	21.26	20.56	33	-12.44
				1	0	22.25	21.55	33	-11.45
	26675	1913.5	16QAM	1	14	22.08	21.38	33	-11.62
	26675 1913.5	16QAW	8	4	21.28	20.58	33	-12.42	
3				15	0	21.28	20.58	33	-12.42
				1	0	21.89	21.19	33	-11.81
	26055	1851.5	64QAM	1	14	22.35	21.65	33	-11.35
				8	4	21.12	20.42	33	-12.58
				15	0	21.19	20.49	33	-12.51
				1	0	22.17	21.47	33	-11.53
	26365	1882.5	64QAM	1	14	22.04	21.34	33	-11.66
				8	4	21.00	20.30	33	-12.7
				15	0	21.02	20.32	33	-12.68
				1	0	22.06	21.36	33	-11.64
	26675	1913.5	64QAM	1	14	21.93	21.23	33	-11.77
				8	4	21.16	20.46	33	-12.54
				15	0	20.95	20.25	33	-12.75
				1	0	19.20	18.50	33	-14.5
	26055	1851.5	256QAM	1	14	19.03	18.33	33	-14.67
				8	4	18.16	17.46	33	-15.54
				15	0	17.95	17.25	33 33	-15.75
				1	0 14	19.11 19.02	18.41 18.32	33	-14.59 -14.68
	26365	1882.5	256QAM	8	14 4	19.02	18.32	33	-14.68 -15.44
				8 15	4	18.26	17.56	33	-15.44 -15.65
					0	18.05	17.35	33	-15.65
				1	0 14	18.93	18.23	33	-14.77
	26675	1913.5	256QAM	8	4	18.91	17.38	33	-14.79 -15.62
			I	0	4	10.00	17.30	33	-10.02

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# Report No.: ER/2020/30083 Page 65 of 554

Antenna g	jain (dBi)	-0.7							
			LTE Band	1 25_U	plink frec	uency band : 185			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.32	22.62	33	-10.38
	26065	1852.5	QPSK	1	24	23.05	22.35	33	-10.65
	20005	1652.5	QFSK	12	6	22.52	21.82	33	-11.18
				25	0	22.34	21.64	33	-11.36
				1	0	23.03	22.33	33	-10.67
	26365	1882.5	QPSK	1	24	23.12	22.42	33	-10.58
	20303	1002.5	QUSIC	12	6	22.31	21.61	33	-11.39
				25	0	22.35	21.65	33	-11.35
				1	0	23.13	22.43	33	-10.57
	26665	1912.5	QPSK	1	24	23.09	22.39	33	-10.61
	20005	1712.5	QFSK	12	6	22.39	21.69	33	-11.31
				25	0	22.09	21.39	33	-11.61
				1	0	23.07	22.37	33	-10.63
	26065	1852.5	16QAM	1	24	22.29	21.59	33	-11.41
	20005	1052.5	TOQAM	12	6	21.40	20.70	33	-12.3
				25	0	21.37	20.67	33	-12.33
				1	0	22.40	21.70	33	-11.3
	26365	1882.5	16QAM	1	24	22.55	21.85	33	-11.15
	20305	1002.5	TOQAW	12	6	21.16	20.46	33	-12.54
				25	0	21.36	20.66	33	-12.34
			1	0	22.35	21.65	33	-11.35	
	24445	1912.5 16QAV	140 004	1	24	22.18	21.48	33	-11.52
		1912.5	16QAM	12	6	21.37	20.67	33	-12.33
5				25	0	21.45	20.75	33	-12.25
Э				1	0	22.00	21.30	33	-11.7
	26065	1852.5	64QAM	1	24	22.46	21.76	33	-11.24
	20005	1852.5	64QAW	12	6	21.24	20.54	33	-12.46
				25	0	21.19	20.49	33	-12.51
				1	0	22.26	21.56	33	-11.44
	26365	1882.5	64QAM	1	24	22.16	21.46	33	-11.54
	20305	1002.5	04QAW	12	6	21.16	20.46	33	-12.54
				25	0	21.21	20.51	33	-12.49
				1	0	22.19	21.49	33	-11.51
	26665	1912.5	64QAM	1	24	22.12	21.42	33	-11.58
	20000	1712.0		12	6	21.21	20.51	33	-12.49
				25	0	21.10	20.40	33	-12.6
				1	0	19.29	18.59	33	-14.41
	26065	1852.5	256QAM	1	24	19.09	18.39	33	-14.61
	20000	1032.5	2002710	12	6	18.23	17.53	33	-15.47
				25	0	18.08	17.38	33	-15.62
				1	0	19.16	18.46	33	-14.54
	26365	1882.5	256QAM	1	24	19.04	18.34	33	-14.66
	20303	1002.0	2002710	12	6	18.29	17.59	33	-15.41
				25	0	18.21	17.51	33	-15.49
				1	0	18.98	18.28	33	-14.72
	26665	1912.5	256QAM	1	24	19.06	18.36	33	-14.64
	20000	1712.5	2002710	12	6	18.27	17.57	33	-15.43
				25	0	18.06	17.36	33	-15.64

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# Report No.: ER/2020/30083 Page 66 of 554

ntenna g	jain (dBi)	-0.7							
			LTE Band	1 25_U	olink frec	uency band : 185			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.39	22.69	33	-10.31
	26000	1055	QPSK	1	49	23.12	22.42	33	-10.58
	26090	1855	QPSK	25	12	22.59	21.89	33	-11.11
				50	0	22.36	21.66	33	-11.34
				1	0	23.12	22.42	33	-10.58
	26365	1882.5	QPSK	1	49	23.29	22.59	33	-10.41
	20305	1002.5	QF3K	25	12	22.31	21.61	33	-11.39
				50	0	22.45	21.75	33	-11.25
				1	0	23.13	22.43	33	-10.57
	26640	1910	QPSK	1	49	23.25	22.55	33	-10.45
	20040	1910	QF3K	25	12	22.47	21.77	33	-11.23
				50	0	22.27	21.57	33	-11.43
				1	0	23.07	22.37	33	-10.63
	26090	1855	16QAM	1	49	22.41	21.71	33	-11.29
	20090	1655	TOCAN	25	12	21.52	20.82	33	-12.18
				50	0	21.56	20.86	33	-12.14
				1	0	22.51	21.81	33	-11.19
	26365	1882.5	16QAM	1	49	22.67	21.97	33	-11.03
	20305	1002.5	TOCAN	25	12	21.29	20.59	33	-12.41
				50	0	21.42	20.72	33	-12.28
				1	0	22.35	21.65	33	-11.35
	26640 1910	16QAM	1	49	22.24	21.54	33	-11.46	
266	20040	1910	16QAM -	25	12	21.54	20.84	33	-12.16
10				50	0	21.47	20.77	33	-12.23
10				1	0	22.18	21.48	33	-11.52
	24000	1055	( 10 104	1	49	22.48	21.78	33	-11.22
	26090	1855	64QAM	25	12	21.32	20.62	33	-12.38
				50	0	21.30	20.60	33	-12.4
				1	0	22.42	21.72	33	-11.28
	0.0015	1000 5	(10.004	1	49	22.30	21.60	33	-11.4
	26365	1882.5	64QAM	25	12	21.29	20.59	33	-12.41
				50	0	21.36	20.66	33	-12.34
				1	0	22.29	21.59	33	-11.41
	26/40	1010		1	49	22.30	21.60	33	-11.4
	26640	1910	64QAM	25	12	21.27	20.57	33	-12.43
				50	0	21.25	20.55	33	-12.45
				1	0	19.38	18.68	33	-14.32
	24000	1055		1	49	19.19	18.49	33	-14.51
	26090	1855	256QAM	25	12	18.30	17.60	33	-15.4
				50	0	18.26	17.56	33	-15.44
				1	0	19.19	18.49	33	-14.51
	2/2/5	1000 5		1	49	19.16	18.46	33	-14.54
	26365	1882.5	256QAM	25	12	18.35	17.65	33	-15.35
				50	0	18.35	17.65	33	-15.35
				1	0	19.14	18.44	33	-14.56
	04445	1010		1	49	19.13	18.43	33	-14.57
	26640	1910	256QAM	25	12	18.30	17.60	33	-15.4
				50	0	18.16	17.46	33	-15.54

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# Report No.: ER/2020/30083 Page 67 of 554

Antenna g	jain (dBi)	-0.7							
			LTE Band	1 25_U	plink frec	uency band : 185			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.41	22.71	33	-10.29
	26115	1057 5	QPSK	1	74	23.16	22.46	33	-10.54
	26115	1857.5	QPSK	36	18	22.62	21.92	33	-11.08
				75	0	22.53	21.83	33	-11.17
				1	0	23.31	22.61	33	-10.39
	26365	1882.5	QPSK	1	74	23.29	22.59	33	-10.41
	20305	1002.0	QF3K	36	18	22.37	21.67	33	-11.33
				75	0	22.47	21.77	33	-11.23
				1	0	23.30	22.60	33	-10.4
	26615	1907.5	QPSK	1	74	23.30	22.60	33	-10.4
	20015	1907.5	QFSK	36	18	22.52	21.82	33	-11.18
				75	0	22.32	21.62	33	-11.38
				1	0	23.07	22.37	33	-10.63
	26115	1857.5	16QAM	1	74	22.42	21.72	33	-11.28
	20115	1657.5	TOCAN	36	18	21.54	20.84	33	-12.16
				75	0	21.67	20.97	33	-12.03
				1	0	22.68	21.98	33	-11.02
	26365	1882.5	16QAM	1	74	22.72	22.02	33	-10.98
	20305	1862.5	TOQAW	36	18	21.48	20.78	33	-12.22
				75	0	21.48	20.78	33	-12.22
				1	0	22.54	21.84	33	-11.16
	27715	1007 5	907.5 16QAM	1	74	22.29	21.59	33	-11.41
	26615 1907.5	16QAM	36	18	21.56	20.86	33	-12.14	
15				75	0	21.54	20.84	33	-12.16
15				1	0	22.29	21.59	33	-11.41
	26115	10E7 E	64QAM	1	74	22.47	21.77	33	-11.23
	20115	1857.5	64QAW	36	18	21.49	20.79	33	-12.21
				75	0	21.47	20.77	33	-12.23
				1	0	22.49	21.79	33	-11.21
	26365	1882.5	64QAM	1	74	22.35	21.65	33	-11.35
	20305	1862.5	64QAW	36	18	21.34	20.64	33	-12.36
				75	0	21.44	20.74	33	-12.26
				1	0	22.47	21.77	33	-11.23
	26615	1907.5	64QAM	1	74	22.45	21.75	33	-11.25
	20015	1707.5	04070	36	18	21.44	20.74	33	-12.26
				75	0	21.33	20.63	33	-12.37
				1	0	19.38	18.68	33	-14.32
	26115	1857.5	256QAM	1	74	19.35	18.65	33	-14.35
	20113	1007.0	2300/101	36	18	18.37	17.67	33	-15.33
				75	0	18.27	17.57	33	-15.43
				1	0	19.31	18.61	33	-14.39
	26365	1882.5	256QAM	1	74	19.34	18.64	33	-14.36
	20305	1002.0	230QAW	36	18	18.36	17.66	33	-15.34
				75	0	18.36	17.66	33	-15.34
				1	0	19.20	18.50	33	-14.5
	26615	1907.5	256QAM	1	74	19.28	18.58	33	-14.42
	20015	1707.5	230QAW	36	18	18.38	17.68	33	-15.32
				75	0	18.27	17.57	33	-15.43

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# Report No.: ER/2020/30083 Page 68 of 554

ntenna ç	jain (dBi)	-0.7							
			LTE Band	1 25_U	olink frec	uency band : 185			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.58	22.88	33	-10.12
	26140	1040	ODEK	1	99	23.35	22.65	33	-10.35
	26140	1860	QPSK	50	25	22.64	21.94	33	-11.06
				100	0	22.57	21.87	33	-11.13
				1	0	23.48	22.78	33	-10.22
	26365	1882.5	QPSK	1	99	23.45	22.75	33	-10.25
	20305	1002.5	QF3K	50	25	22.55	21.85	33	-11.15
				100	0	22.61	21.91	33	-11.09
				1	0	23.38	22.68	33	-10.32
	26590	1905	QPSK	1	99	23.37	22.67	33	-10.33
	20390	1905	QF3K	50	25	22.49	21.79	33	-11.21
				100	0	22.49	21.79	33	-11.21
				1	0	23.10	22.40	33	-10.6
	26140	1860	16QAM	1	99	22.55	21.85	33	-11.15
	20140	1800	TOCAN	50	25	21.64	20.94	33	-12.06
				100	0	21.72	21.02	33	-11.98
				1	0	22.78	22.08	33	-10.92
	26365	1882.5	16QAM	1	99	22.83	22.13	33	-10.87
	20305	1002.5	TOCAN	50	25	21.65	20.95	33	-12.05
				100	0	21.54	20.84	33	-12.16
			-	1	0	22.54	21.84	33	-11.16
	26590 1905	16QAM	1	99	22.47	21.77	33	-11.23	
2659	26590	) 1905	16QAM	50	25	21.56	20.86	33	-12.14
20				100	0	21.55	20.85	33	-12.15
20				1	0	22.47	21.77	33	-11.23
	26140	1040	640 004	1	99	22.48	21.78	33	-11.22
	26140	1860	64QAM	50	25	21.64	20.94	33	-12.06
				100	0	21.59	20.89	33	-12.11
				1	0	22.49	21.79	33	-11.21
	26365	1882.5	64QAM	1	99	22.47	21.77	33	-11.23
	20305	1002.5	04QAW	50	25	21.48	20.78	33	-12.22
				100	0	21.50	20.80	33	-12.2
				1	0	22.47	21.77	33	-11.23
	26590	1905	64QAM	1	99	22.43	21.73	33	-11.27
	20090	1700		50	25	21.53	20.83	33	-12.17
				100	0	21.51	20.81	33	-12.19
				1	0	19.43	18.73	33	-14.27
	26140	1860	256QAM	1	99	19.49	18.79	33	-14.21
	20140	1000	230QAW	50	25	18.41	17.71	33	-15.29
				100	0	18.41	17.71	33	-15.29
				1	0	19.34	18.64	33	-14.36
	26365	1882.5	256QAM	1	99	19.45	18.75	33	-14.25
	20300	1002.3	ZOQAW	50	25	18.37	17.67	33	-15.33
				100	0	18.44	17.74	33	-15.26
				1	0	19.36	18.66	33	-14.34
	24500	100F	2540 414	1	99	19.47	18.77	33	-14.23
	26590	1905	256QAM	50	25	18.42	17.72	33	-15.28
				100	0	18.36	17.66	33	-15.34

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# Report No.: ER/2020/30083 Page 69 of 554



vincenna g	iain (dBi)	-1.1		LTE	Band 26 Uplin	nk frequency band	: 824 to 849 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margir (dB)
				1	0	23.11	19.86	22.01	38.45	-18.59
	24707	0047	QPSK	1	5	23.06	19.81	21.96	38.45	-18.64
	26797	824.7	UPSK	3	2	23.16	19.91	22.06	38.45	-18.54
				6	0	22.20	18.95	21.10	38.45	-19.50
				1	0	23.07	19.82	21.97	38.45	-18.63
	26915	836.5	QPSK	1	5	23.08	19.83	21.98	38.45	-18.62
	20715	030.5	QF 3K	3	2	23.10	19.85	22.00	38.45	-18.60
				6	0	22.15	18.90	21.05	38.45	-19.55
				1	0	22.97	19.72	21.87	38.45	-18.73
	27033	848.3	QPSK	1	5	22.81	19.56	21.71	38.45	-18.89
	27033	040.5	QLOK	3	2	22.68	19.43	21.58	38.45	-19.02
				6	0	22.24	18.99	21.14	38.45	-19.46
				1	0	22.04	18.79	20.94	38.45	-19.66
	26797	824.7	16QAM	1	5	21.92	18.67	20.82	38.45	-19.78
	20171	024.7	TOQAM	3	2	22.16	18.91	21.06	38.45	-19.54
				6	0	21.19	17.94	20.09	38.45	-20.51
				1	0	22.12	18.87	21.02	38.45	-19.58
	26915	836.5	16QAM	1	5	22.02	18.77	20.92	38.45	-19.68
	20715	030.5	TOQAM	3	2	22.20	18.95	21.10	38.45	-19.50
				6	0	21.16	17.91	20.06	38.45	-20.54
				1	0	21.97	18.72	20.87	38.45	-19.73
	27033	848.3	16QAM	1	5	21.73	18.48	20.63	38.45	-19.9
	27033	040.3	TOQAM	3	2	21.56	18.31	20.46	38.45	-20.14
1.4				6	0	21.55	18.30	20.45	38.45	-20.1
1.4				1	0	21.05	17.80	19.95	38.45	-20.65
	26797	824.7	64QAM	1	5	20.95	17.70	19.85	38.45	-20.7
	20/9/	024.7	04QAM	3	2	21.01	17.76	19.91	38.45	-20.69
				6	0	19.88	16.63	18.78	38.45	-21.82
				1	0	21.27	18.02	20.17	38.45	-20.43
	26915	836.5	64QAM	1	5	21.07	17.82	19.97	38.45	-20.63
	20715	030.5	04QAM	3	2	21.21	17.96	20.11	38.45	-20.4
				6	0	20.11	16.86	19.01	38.45	-21.59
				1	0	21.80	18.55	20.70	38.45	-19.90
	27033	848.3	64QAM	1	5	21.68	18.43	20.58	38.45	-20.02
	27033	040.5	0402AM	3	2	21.59	18.34	20.49	38.45	-20.11
				6	0	20.63	17.38	19.53	38.45	-21.07
				1	0	18.31	15.06	17.21	38.45	-23.39
	26797	824.7	256QAM	1	5	18.35	15.10	17.25	38.45	-23.3
	20171	027.7	2000/101	3	2	18.41	15.16	17.31	38.45	-23.29
				6	0	18.32	15.07	17.22	38.45	-23.38
				1	0	18.24	14.99	17.14	38.45	-23.46
	26915	836.5	256QAM	1	5	18.37	15.12	17.27	38.45	-23.33
	20/10	000.0	2000/101	3	2	18.27	15.02	17.17	38.45	-23.43
			6	0	18.24	14.99	17.14	38.45	-23.4	
				1	0	18.88	15.63	17.78	38.45	-22.82
	27033	848.3	256QAM	1	5	18.94	15.69	17.84	38.45	-22.70
	21000	0.0+0.3	230QAW	3	2	18.98	15.73	17.88	38.45	-22.72
				6	0	18.04	14.79	16.94	38.45	-23.66

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# Report No.: ER/2020/30083 Page 70 of 554



interina g	ain (dBi)	-1.1		LTE	Band 26 Uplin	nk frequency band	: 824 to 849 MHz			
DW		<b>F</b>				Conducted	ERP	EIRP	ERP	Maria
BW	UL	Frequency	Modulation	RB	RB Offeet	Average	Average	Average	Limit	Margin
(MHz)	Channel	(MHz)		Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.19	19.94	22.09	38.45	-18.51
	24005	0.2E E	QPSK	1	14	23.25	20.00	22.15	38.45	-18.45
	26805	825.5	UPSK	8	4	22.36	19.11	21.26	38.45	-19.34
				15	0	22.30	19.05	21.20	38.45	-19.40
				1	0	23.14	19.89	22.04	38.45	-18.56
	2/015	024 5	000	1	14	23.17	19.92	22.07	38.45	-18.53
	26915	836.5	QPSK	8	4	22.25	19.00	21.15	38.45	-19.45
				15	0	22.25	19.00	21.15	38.45	-19.45
				1	0	23.13	19.88	22.03	38.45	-18.57
				1	14	22.85	19.60	21.75	38.45	-18.85
	27025	847.5	QPSK	8	4	22.33	19.08	21.23	38.45	-19.37
				15	0	22.33	19.08	21.23	38.45	-19.37
				1	0	22.00	18.75	20.90	38.45	-19.70
				1	14	22.02	18.77	20.92	38.45	-19.68
	26805	825.5	16QAM	8	4	21.32	18.07	20.22	38.45	-20.38
				15	0	21.28	18.03	20.18	38.45	-20.42
				10	0	22.08	18.83	20.98	38.45	-19.62
				1	14	22.08	18.83	20.98	38.45	-19.62
	26915	836.5	16QAM	8	4	21.39	18.14	20.29	38.45	-20.31
				15	4 0	21.37	18.03	20.18	38.45	-20.31
				15	0	22.08	18.83	20.18	38.45	-20.42
				1	14	22.08	18.30	20.45	38.45	-19.02
	27025	847.5	16QAM	8	4	20.71	17.46	19.61	38.45	-20.13
				8 15	4	20.71	17.46	19.61	38.45	-20.99
3					-					
				1	0	21.07	17.82	19.97	38.45	-20.63
	26805	825.5	64QAM	1	14	20.95	17.70	19.85	38.45	-20.75
				8	4	19.89	16.64	18.79	38.45	-21.81
				15	0	19.92	16.67	18.82	38.45	-21.78
				1	0	21.27	18.02	20.17	38.45	-20.43
	26915	836.5	64QAM	1	14	21.33	18.08	20.23	38.45	-20.37
				8	4	20.37	17.12	19.27	38.45	-21.33
				15	0	20.33	17.08	19.23	38.45	-21.37
				1	0	21.92	18.67	20.82	38.45	-19.78
	27025	847.5	64QAM	1	14	21.58	18.33	20.48	38.45	-20.12
				8	4	20.67	17.42	19.57	38.45	-21.03
				15	0	20.73	17.48	19.63	38.45	-20.97
				1	0	18.49	15.24	17.39	38.45	-23.21
	26805	825.5	256QAM	1	14	18.40	15.15	17.30	38.45	-23.30
	20000	020.0	2000/101	8	4	18.42	15.17	17.32	38.45	-23.28
				15	0	18.41	15.16	17.31	38.45	-23.29
				1	0	18.40	15.15	17.30	38.45	-23.30
	26915	836.5	256QAM	1	14	18.35	15.10	17.25	38.45	-23.35
	20713	030.3	ZJOQAWI	8	4	18.43	15.18	17.33	38.45	-23.27
				15	0	18.39	15.14	17.29	38.45	-23.31
				1	0	19.07	15.82	17.97	38.45	-22.63
	27025	047 5		1	14	18.94	15.69	17.84	38.45	-22.76
	27025	847.5	256QAM	8	4	18.15	14.90	17.05	38.45	-23.55
				15	0	18.17	14.92	17.07	38.45	-23.53

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# Report No.: ER/2020/30083 Page 71 of 554



Antenna g	jain (dBi)	-1.1								
	1		•	LTE	Band 26_Uplin	k frequency band			•	
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
、 ,		, , ,				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	23.22	19.97	22.12	38.45	-18.48
	26815	826.5	QPSK	1	24	23.25	20.00	22.15	38.45	-18.45
				12	6	22.35	19.10	21.25	38.45	-19.35
				25	0	22.34	19.09	21.24	38.45	-19.36
				1	0	23.18	19.93	22.08	38.45	-18.52
	26915	836.5	QPSK	1	24	23.20	19.95	22.10	38.45	-18.50
				12	6	22.27	19.02	21.17	38.45	-19.43
				25	0	22.27	19.02	21.17	38.45	-19.43
				1	0	23.24	19.99	22.14	38.45	-18.46
	27015	846.5	QPSK	1	24	23.00	19.75	21.90	38.45	-18.70
	27013	040.5	01510	12	6	22.43	19.18	21.33	38.45	-19.27
				25	0	22.34	19.09	21.24	38.45	-19.36
				1	0	22.38	19.13	21.28	38.45	-19.32
	26815	826.5	16QAM	1	24	22.48	19.23	21.38	38.45	-19.22
	20010	020.5	TOQAW	12	6	21.28	18.03	20.18	38.45	-20.42
				25	0	21.34	18.09	20.24	38.45	-20.36
				1	0	22.50	19.25	21.40	38.45	-19.20
	0/015	00/ 5	4/0.044	1	24	22.18	18.93	21.08	38.45	-19.52
	26915	836.5	16QAM	12	6	21.21	17.96	20.11	38.45	-20.49
				25	0	21.23	17.98	20.13	38.45	-20.47
				1	0	22.10	18.85	21.00	38.45	-19.60
				1	24	21.50	18.25	20.40	38.45	-20.20
	27015	846.5	16QAM	12	6	20.87	17.62	19.77	38.45	-20.83
				25	0	20.73	17.48	19.63	38.45	-20.97
5				1	0	21.13	17.88	20.03	38.45	-20.57
				1	24	20.66	17.41	19.56	38.45	-21.04
	26815	826.5	64QAM	12	6	19.89	16.64	18.79	38.45	-21.81
				25	0	19.73	16.48	18.63	38.45	-21.97
				1	0	21.00	17.75	19.90	38.45	-20.70
				1	24	21.00	17.89	20.04	38.45	-20.70
	26915	836.5	64QAM	12	6	20.26	17.01	19.16	38.45	-20.30
				25	0	20.28	17.01	19.10	38.45	-21.44
				1	0	22.04	18.79	20.94	38.45	-19.66
	27015	846.5	64QAM	1	24	21.57	18.32	20.47	38.45	-20.13
				12	6	20.76	17.51	19.66	38.45	-20.94
				25	0	20.86	17.61	19.76	38.45	-20.84
				1	0	18.42	15.17	17.32	38.45	-23.28
	26815	826.5	256QAM	1	24	18.31	15.06	17.21	38.45	-23.39
				12	6	18.38	15.13	17.28	38.45	-23.32
				25	0	18.40	15.15	17.30	38.45	-23.30
				1	0	18.35	15.10	17.25	38.45	-23.35
	26915	836.5	256QAM	1	24	18.35	15.10	17.25	38.45	-23.35
	20/10	000.0	2000/101	12	6	18.28	15.03	17.18	38.45	-23.42
				25	0	18.33	15.08	17.23	38.45	-23.37
				1	0	19.22	15.97	18.12	38.45	-22.48
	27015	846.5	256QAM	1	24	19.05	15.80	17.95	38.45	-22.65
	27015	040.3	ZOUZAW	12	6	18.20	14.95	17.10	38.45	-23.50
				25	0	18.27	15.02	17.17	38.45	-23.43

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# Report No.: ER/2020/30083 Page 72 of 554



Antenna g	jain (dBi)	-1.1								
	-			LTE	Band 26_Uplin	k frequency band			-	
BW	UL	Frequency		RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
(		()				(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	23.17	19.92	22.07	38.45	-18.53
	26840	829	QPSK	1	49	22.96	19.71	21.86	38.45	-18.74
				25	12	22.36	19.11	21.26	38.45	-19.34
				50 1	0	22.30	19.05	21.20	38.45	-19.40
					0 49	23.11 23.30	19.86 20.05	22.01	38.45 38.45	-18.59 -18.40
	26915	836.5	QPSK	1 25	12		18.89	22.20	38.45	-18.40
				25 50	0	22.14 22.22	18.97	21.04	38.45	-19.30
				1	0	23.43	20.18	21.12	38.45	-19.40
				1	49	23.45	19.90	22.05	38.45	-18.55
	26990	844	QPSK	25	12	22.49	19.24	21.39	38.45	-19.21
				50	0	22.47	19.19	21.37	38.45	-19.26
				1	0	22.44	19.19	21.34	38.45	-19.20
				1	49	22.32	19.27	21.42	38.45	-19.18
	26840	829	16QAM	25	12	21.34	18.09	20.24	38.45	-19.34
				50	0	21.34	17.97	20.24	38.45	-20.30
				1	0	22.62	19.37	21.52	38.45	-19.08
				1	49	22.32	19.07	21.22	38.45	-19.38
	26915	836.5	16QAM	25	12	21.14	17.89	20.04	38.45	-20.56
				50	0	21.14	18.00	20.04	38.45	-20.30
				1	0	22.21	18.96	20.13	38.45	-20.43
				1	49	22.21	18.96	21.11	38.45	
	26990	844	16QAM	25	12		18.96	19.83		-19.49
						20.93			38.45	-20.77
10				50	0	20.88	17.63	19.78	38.45	-20.82
10				1	0	21.40	18.15	20.30	38.45	-20.30
	26840	829	64QAM	1	49	21.29	18.04	20.19	38.45	-20.41
				25	12	20.01	16.76	18.91	38.45	-21.69
				50	0	20.07	16.82	18.97	38.45	-21.63
				1	0	20.90	17.65	19.80	38.45	-20.80
	26915	836.5	64QAM	1	49	20.64	17.39	19.54	38.45	-21.06
				25	12	20.19	16.94	19.09	38.45	-21.51
				50	0	20.25	17.00	19.15	38.45	-21.45
				1	0	22.16	18.91	21.06	38.45	-19.54
	26990	844	64QAM	1	49	21.54	18.29	20.44	38.45	-20.16
	20770	044	040/101	25	12	20.83	17.58	19.73	38.45	-20.87
				50	0	21.02	17.77	19.92	38.45	-20.68
				1	0	18.23	14.98	17.13	38.45	-23.47
	26840	829	256QAM	1	49	18.41	15.16	17.31	38.45	-23.29
	20040	029	ZOQAW	25	12	18.34	15.09	17.24	38.45	-23.36
				50	0	18.32	15.07	17.22	38.45	-23.38
				1	0	18.28	15.03	17.18	38.45	-23.42
	2/015	0215		1	49	18.43	15.18	17.33	38.45	-23.27
	26915	836.5	256QAM	25	12	18.33	15.08	17.23	38.45	-23.37
				50	0	18.39	15.14	17.29	38.45	-23.31
				1	0	19.37	16.12	18.27	38.45	-22.33
				1	49	19.13	15.88	18.03	38.45	-22.57
	26990	844	256QAM	25	12	18.31	15.06	17.21	38.45	-23.39
				50	0	18.37	15.12	17.27	38.45	-23.33

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### Report No.: ER/2020/30083 Page 73 of 554



interind g	ain (dBi)	-1.1		LTE	Band 26 Uplin	nk frequency band	: 824 to 849 MHz			
		<b>F</b>				Conducted	ERP	EIRP	ERP	Manala
BW	UL	Frequency	Modulation	RB Size	RB Offset	Average	Average	Average	Limit	Margin (dB)
(MHz)	Channel	(MHz)		Size	Oliset	(dBm)	(dBm)	(dBm)	(dBm)	
				1	0	23.53	20.28	22.43	38.45	-18.17
	26865	831.5	QPSK	1	74	23.43	20.18	22.33	38.45	-18.27
	20800	631.5	UPSK	36	18	22.57	19.32	21.47	38.45	-19.13
				75	0	22.59	19.34	21.49	38.45	-19.11
				1	0	23.09	19.84	21.99	38.45	-18.61
	0/015	0015	0.001/	1	74	22.59	19.34	21.49	38.45	-19.11
	26915	836.5	QPSK	36	18	22.20	18.95	21.10	38.45	-19.50
				75	0	22.25	19.00	21.15	38.45	-19.45
				1	0	23.46	20.21	22.36	38.45	-18.24
				1	74	23.17	19.92	22.07	38.45	-18.53
	26965	841.5	QPSK	36	18	22.58	19.33	21.48	38.45	-19.12
				75	0	22.53	19.28	21.43	38.45	-19.17
				1	0	22.43	19.18	21.33	38.45	-19.27
					74	22.43	18.94	21.09	38.45	-19.51
	26865	831.5	16QAM	1		22.19	17.82	19.97	38.45	
				36	18					-20.63
				75	0	21.11	17.86	20.01	38.45	-20.59
				1	0	22.07	18.82	20.97	38.45	-19.63
	26915	836.5	16QAM	1	74	22.02	18.77	20.92	38.45	-19.68
				36	18	21.21	17.96	20.11	38.45	-20.49
				75	0	21.19	17.94	20.09	38.45	-20.51
				1	0	22.33	19.08	21.23	38.45	-19.37
	26965	841.5	16QAM	1	74	21.56	18.31	20.46	38.45	-20.14
	20703	041.5	1002/101	36	18	21.01	17.76	19.91	38.45	-20.69
15				75	0	21.05	17.80	19.95	38.45	-20.65
15				1	0	22.30	19.05	21.20	38.45	-19.40
	0/0/5	001 5	(10.004	1	74	22.10	18.85	21.00	38.45	-19.60
	26865	831.5	64QAM	36	18	21.09	17.84	19.99	38.45	-20.61
				75	0	21.12	17.87	20.02	38.45	-20.58
				1	0	21.21	17.96	20.11	38.45	-20.49
				1	74	20.57	17.32	19.47	38.45	-21.13
	26915	836.5	64QAM	36	18	20.22	16.97	19.12	38.45	-21.48
				75	0	20.22	17.01	19.16	38.45	-21.44
				1	0	22.16	18.91	21.06	38.45	-19.54
					74	21.61	18.36	20.51	38.45	-20.09
	26965	841.5	64QAM	1			17.76	19.91	38.45	
				36	18	21.01				-20.69
				75	0	21.04	17.79	19.94	38.45	-20.66
				1	0	19.42	16.17	18.32	38.45	-22.28
	26865	831.5	256QAM	1	74	19.39	16.14	18.29	38.45	-22.31
				36	18	18.29	15.04	17.19	38.45	-23.41
				75	0	18.31	15.06	17.21	38.45	-23.39
				1	0	18.27	15.02	17.17	38.45	-23.43
	26915	836.5	256QAM	1	74	18.45	15.20	17.35	38.45	-23.25
	20/10	000.0	2000/101	36	18	18.33	15.08	17.23	38.45	-23.37
				75	0	18.36	15.11	17.26	38.45	-23.34
				1	0	19.39	16.14	18.29	38.45	-22.31
	2/0/5	0.41 5		1	74	19.32	16.07	18.22	38.45	-22.38
	26965	841.5	256QAM	36	18	18.36	15.11	17.26	38.45	-23.34
				75	0	18.37	15.12	17.27	38.45	-23.33

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### Report No.: ER/2020/30083 Page 74 of 554



	gain (dBi)	-1.1	Part 90	S_LTE	Band 26	_Uplink frequency	y band : 814 to 824	4 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margir (dB)
				1	0	23.06	19.81	21.96	50	-30.19
				1	5	23.00	19.75	21.90	50	-30.25
	26697	814.7	QPSK	3	2	22.94	19.69	21.84	50	-30.31
				6	0	22.26	19.01	21.16	50	-30.99
				1	0	23.19	19.94	22.09	50	-30.06
	0/7/0	010	0.001/	1	5	23.23	19.98	22.13	50	-30.02
	26740	819	QPSK	3	2	23.23	19.98	22.13	50	-30.02
				6	0	22.29	19.04	21.19	50	-30.96
				1	0	23.14	19.89	22.04	50	-30.11
	2/702	000.0	ODCK	1	5	23.11	19.86	22.01	50	-30.14
	26783	823.3	QPSK	3	2	23.28	20.03	22.18	50	-29.97
				6	0	22.21	18.96	21.11	50	-31.04
				1	0	22.00	18.75	20.90	50	-31.25
	2//07	0147	1/0 414	1	5	21.80	18.55	20.70	50	-31.45
	26697	814.7	16QAM	3	2	21.71	18.46	20.61	50	-31.54
				6	0	21.45	18.20	20.35	50	-31.80
				1	0	22.17	18.92	21.07	50	-31.08
	26740	819	16QAM	1	5	22.02	18.77	20.92	50	-31.23
	20740	019	TOQAW	3	2	22.28	19.03	21.18	50	-30.9
				6	0	21.38	18.13	20.28	50	-31.87
				1	0	21.98	18.73	20.88	50	-31.2
	2/702	823.3	1/0 414	1	5	21.94	18.69	20.84	50	-31.31
	26783	823.3	16QAM	3	2	22.23	18.98	21.13	50	-31.02
1.4				6	0	21.22	17.97	20.12	50	-32.03
1.4				1	0	22.08	18.83	20.98	50	-31.17
	26697	814.7	64QAM	1	5	21.68	18.43	20.58	50	-31.57
	20097	014.7	04QAW	3	2	21.70	18.45	20.60	50	-31.55
				6	0	21.64	18.39	20.54	50	-31.61
				1	0	21.28	18.03	20.18	50	-31.97
	26740	819	64QAM	1	5	21.15	17.90	20.05	50	-32.10
	20740	017	04QAW	3	2	21.34	18.09	20.24	50	-31.91
				6	0	20.10	16.85	19.00	50	-33.15
				1	0	21.30	18.05	20.20	50	-31.95
	26783	823.3	64QAM	1	5	21.00	17.75	19.90	50	-32.25
	20700	020.0	012/11	3	2	21.08	17.83	19.98	50	-32.17
				6	0	20.19	16.94	19.09	50	-33.06
				1	0	18.93	15.68	17.83	50	-34.32
	26697	814.7	256QAM	1	5	18.99	15.74	17.89	50	-34.26
	20077	0.1.7	2000/101	3	2	19.07	15.82	17.97	50	-34.18
				6	0	18.10	14.85	17.00	50	-35.15
				1	0	18.49	15.24	17.39	50	-34.76
	26740	819	256QAM	1	5	18.36	15.11	17.26	50	-34.89
	20/10	017	2000/101	3	2	18.51	15.26	17.41	50	-34.74
				6	0	18.27	15.02	17.17	50	-34.98
				1	0	18.33	15.08	17.23	50	-34.92
	26783	823.3	256QAM	1	5	18.34	15.09	17.24	50	-34.91
	20700	020.0	2000/101	3	2	18.47	15.22	17.37	50	-34.78
				6	0	18.23	14.98	17.13	50	-35.02

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### Report No.: ER/2020/30083 Page 75 of 554



Antenna g	jain (dBi)	-1.1	Dort 00	C I TE	Rand 24	_Uplink frequency	$t$ band $\cdot$ 014 to 02			
			Part 90			Conducted	ERP	EIRP	ERP	
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Average	Limit	Margin
(MHz)	Channel	(MHz)	woodaaton	Size	Offset	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.21	19.96	22.11	50	-30.04
				1	14	23.11	19.86	22.01	50	-30.14
	26705	815.5	QPSK	8	4	22.59	19.34	21.49	50	-30.66
				15	0	22.37	19.12	21.27	50	-30.88
				1	0	23.34	20.09	22.24	50	-29.91
				1	14	23.28	20.03	22.18	50	-29.97
	26740	819	QPSK	8	4	22.33	19.08	21.23	50	-30.92
				15	0	22.37	19.12	21.27	50	-30.88
				1	0	23.23	19.98	22.13	50	-30.02
				1	14	23.25	20.00	22.15	50	-30.00
	26775	822.5	QPSK	8	4	22.35	19.10	21.25	50	-30.90
				15	0	22.35	19.10	21.25	50	-30.90
				1	0	22.15	18.90	21.05	50	-31.10
				1	14	21.82	18.57	20.72	50	-31.43
	26705	815.5	16QAM	8	4	20.86	17.61	19.76	50	-32.39
				15	0	20.98	17.73	19.88	50	-32.27
				1	0	22.65	19.40	21.55	50	-30.60
				1	14	22.14	18.89	21.04	50	-31.11
	26740	819	16QAM	8	4	21.34	18.09	20.24	50	-31.91
				15	0	21.39	18.14	20.29	50	-31.86
				10	0	22.12	18.87	21.02	50	-31.13
				1	14	22.48	19.23	21.38	50	-30.77
	26775	822.5	16QAM	8	4	21.43	18.18	20.33	50	-31.82
				15	0	21.39	18.14	20.29	50	-31.86
3				10	0	22.25	19.00	21.15	50	-31.00
				1	14	21.76	18.51	20.66	50	-31.49
	26705	815.5	64QAM	8	4	20.92	17.67	19.82	50	-32.33
				15	0	20.92	17.67	19.82	50	-32.33
				10	0	21.32	18.07	20.22	50	-31.93
				1	14	21.39	18.14	20.22	50	-31.86
	26740	819	64QAM	8	4	20.27	17.02	19.17	50	-32.98
				15	0	20.27	17.02	19.22	50	-32.93
				10	0	21.30	18.05	20.20	50	-31.95
				1	14	21.30	18.01	20.20	50	-31.99
	26775	822.5	64QAM	8	4	20.41	17.16	19.31	50	-32.84
				15	0	20.46	17.21	19.36	50	-32.79
				13	0	19.12	15.87	18.02	50	-34.13
				1	14	19.12	15.88	18.03	50	-34.12
	26705	815.5	256QAM	8	4	18.11	14.86	17.01	50	-35.14
				15	0	18.11	14.86	17.01	50	-35.14
				13	0	18.40	15.15	17.30	50	-34.85
				1	14	18.40	15.15	17.30	50	-34.85
	26740	819	256QAM	8	4	18.39	15.14	17.30	50	-34.86
				15	4 0	18.42	15.17	17.32	50	-34.83
				13	0	18.44	15.19	17.32	50	-34.81
				1	14	18.50	15.25	17.34	50	-34.75
	26775	822.5	256QAM	8	4	18.43	15.18	17.33	50	-34.82
				15	4	18.34	15.09	17.33	50	-34.91
				15	0	10.34	13.07	17.24	50	-34.71

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### Report No.: ER/2020/30083 Page 76 of 554



Antenna g	jain (dBi)	-1.1	Dort 00		Dand 2/	Unlink from one	( hand ) 014 to 02	4 0.011-		
	-		Part 90	S_LIE	Band 26	_Uplink frequency			EDD	
BW	UL	Frequency	Madulation	RB	RB	Conducted	ERP	EIRP	ERP	Margin
(MHz)	Channel	(MHz)	Modulation	Size	Offset	Average	Average	Average	Limit	(dB)
				1	0	(dBm) 23.39	(dBm) 20.14	(dBm) 22.29	(dBm) 50	-29.86
					-					
	26715	816.5	QPSK	1	24	23.25	20.00	22.15	50	-30.00
				12	6	22.64	19.39	21.54	50	-30.61
				25	0	22.56	19.31	21.46	50	-30.69
				1	0	23.39	20.14	22.29	50	-29.86
	26740	819	QPSK	1	24	23.29	20.04	22.19	50	-29.96
	20740	017	QISK	12	6	22.37	19.12	21.27	50	-30.88
				25	0	22.39	19.14	21.29	50	-30.86
				1	0	23.25	20.00	22.15	50	-30.00
			0.001/	1	24	23.20	19.95	22.10	50	-30.05
	26765	821.5	QPSK	12	6	22.33	19.08	21.23	50	-30.92
				25	0	22.40	19.15	21.30	50	-30.85
				1	0	22.28	19.03	21.18	50	-30.97
				1	24	22.01	18.76	20.91	50	-31.24
	26715	816.5	16QAM	12	6	20.98	17.73	19.88	50	-32.27
				25	0		17.73		50	-32.27
					-	21.04		19.94		
				1	0	22.59	19.34	21.49	50	-30.66
	26740	819	16QAM	1	24	22.36	19.11	21.26	50	-30.89
				12	6	21.42	18.17	20.32	50	-31.83
				25	0	21.34	18.09	20.24	50	-31.91
				1	0	22.39	19.14	21.29	50	-30.86
	26765	821.5	16QAM	1	24	22.56	19.31	21.46	50	-30.69
	20705	021.3	TOQAM	12	6	21.33	18.08	20.23	50	-31.92
5				25	0	21.36	18.11	20.26	50	-31.89
5				1	0	22.30	19.05	21.20	50	-30.95
				1	24	21.92	18.67	20.82	50	-31.33
	26715	816.5	64QAM	12	6	21.09	17.84	19.99	50	-32.16
				25	0	21.01	17.76	19.91	50	-32.24
				1	0	21.00	17.75	19.90	50	-32.25
				1	24	21.43	18.18	20.33	50	-31.82
	26740	819	64QAM	12	6	20.22	16.97	19.12	50	-33.03
				25	0	20.22	16.89	19.04	50	-33.11
					0	20.14	18.10	20.25	50	
				1	-					-31.90
	26765	821.5	64QAM	1	24	21.15	17.90	20.05	50	-32.10
				12	6	20.19	16.94	19.09	50	-33.06
				25	0	20.27	17.02	19.17	50	-32.98
				1	0	19.23	15.98	18.13	50	-34.02
	26715	816.5	256QAM	1	24	19.19	15.94	18.09	50	-34.06
				12	6	18.25	15.00	17.15	50	-35.00
				25	0	18.15	14.90	17.05	50	-35.10
				1	0	18.56	15.31	17.46	50	-34.69
	26740	819	256QAM	1	24	18.43	15.18	17.33	50	-34.82
	20740	019	ZOUANI	12	6	18.39	15.14	17.29	50	-34.86
				25	0	18.36	15.11	17.26	50	-34.89
				1	0	18.40	15.15	17.30	50	-34.85
				1	24	18.34	15.09	17.24	50	-34.91
	26765	821.5	256QAM	. 12	6	18.40	15.15	17.30	50	-34.85
				25	0	18.39	15.14	17.30	50	-34.86
				20	5	10.37	13.14	17.27	50	34.00

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Antenna g	gain (dBi)	-1.1								
			Part 90	S_LTE	Band 26	_Uplink frequency	y band : 814 to 824	1 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	23.38	20.13	22.28	50	-29.87
	26740	819	QPSK	1	49	23.30	20.05	22.20	50	-29.95
	20740	017	UFJK	25	12	22.38	19.13	21.28	50	-30.87
				50	0	22.44	19.19	21.34	50	-30.81
				1	0	22.63	19.38	21.53	50	-30.62
	26740	819	16QAM	1	49	22.13	18.88	21.03	50	-31.12
	20740	017	TUCAW	25	12	21.37	18.12	20.27	50	-31.88
10				50	0	21.35	18.10	20.25	50	-31.90
10				1	0	20.87	17.62	19.77	50	-32.38
	26740	819	64QAM	1	49	20.90	17.65	19.80	50	-32.35
	20740	017		25	12	20.22	16.97	19.12	50	-33.03
				50	0	20.03	16.78	18.93	50	-33.22
				1	0	18.45	15.20	17.35	50	-34.80
	26740	819	256QAM	1	49	18.54	15.29	17.44	50	-34.71
	20740	017		25	12	18.41	15.16	17.31	50	-34.84
				50	0	18.45	15.20	17.35	50	-34.80

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### Report No.: ER/2020/30083 Page 78 of 554

	jain (dBi)	-2.7	LTE	Band 3	0_Uplink frequ	ency band : 2305	to 2315 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
				1	0	23.29	20.59	24	-3.41
	27685	2307.5	QPSK	1	24	23.47	20.77	24	-3.23
	27000	2007.0	Q1 of t	12	6	22.47	19.77	24	-4.23
				25	0	22.48	19.78	24	-4.22
				1	0	23.37	20.67	24	-3.33
	27710	2310	QPSK	1	24	23.42	20.72	24	-3.28
	27710	2010	<u>a</u> ron	12	6	22.53	19.83	24	-4.17
				25	0	22.51	19.81	24	-4.19
				1	0	23.24	20.54	24	-3.46
	27735	2312.5	QPSK	1	24	23.36	20.66	24	-3.34
	27700	201210	<u>a</u> r on	12	6	22.49	19.79	24	-4.21
				25	0	22.54	19.84	24	-4.16
				1	0	22.49	19.79	24	-4.21
	27685	2307.5	16QAM	1	24	22.47	19.77	24	-4.23
	27000	200710		12	6	21.46	18.76	24	-5.24
				25	0	21.49	18.79	24	-5.21
				1	0	22.46	19.76	24	-4.24
	27710	2310	16QAM	1	24	22.48	19.78	24	-4.22
	27710	2010	102/11	12	6	21.51	18.81	24	-5.19
				25	0	21.54	18.84	24	-5.16
				1	0	22.50	19.80	24	-4.2
	27735	2312.5	16QAM	1	24	22.49	19.79	24	-4.21
	21133	2012.0	102/11	12	6	21.56	18.86	24	-5.14
5				25	0	21.55	18.85	24	-5.15
5				1	0	21.49	18.79	24	-5.21
	27685	2307.5	64QAM	1	24	21.44	18.74	24	-5.26
	27003	2307.3	04070	12	6	21.49	18.79	24	-5.21
				25	0	21.42	18.72	24	-5.28
				1	0	21.44	18.74	24	-5.26
	27710	2310	64QAM	1	24	21.50	18.80	24	-5.2
	27710	2310	040/10	12	6	20.57	17.87	24	-6.13
				25	0	20.55	17.85	24	-6.15
				1	0	21.50	18.80	24	-5.2
	27735	2312.5	64QAM	1	24	21.49	18.79	24	-5.21
	21100	2012.0	012/11	12	6	20.56	17.86	24	-6.14
				25	0	20.49	17.79	24	-6.21
				1	0	18.39	15.69	24	-8.31
	27685	2307.5	256QAM	1	24	18.29	15.59	24	-8.41
	2.000	2007.0	20002/101	12	6	17.35	14.65	24	-9.35
				25	0	17.21	14.51	24	-9.49
				1	0	18.39	15.69	24	-8.31
	27710	2310	256QAM	1	24	18.23	15.53	24	-8.47
	27710	2010	2002/101	12	6	17.31	14.61	24	-9.39
				25	0	18.22	15.52	24	-8.48
				1	0	18.27	15.57	24	-8.43
	27735	2312.5	256QAM	1	24	18.37	15.67	24	-8.33
	21133	2012.0	230027101	12	6	17.30	14.60	24	-9.4
				25	0	17.26	14.56	24	-9.44

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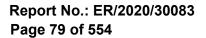
台灣檢驗科技股份有限公司

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Antenna g	jain (dBi)	-2.7																									
			LTE	E Band 3	80_Uplink frequ	ency band : 2305 t	to 2315 MHz																				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)																		
				1	0	23.31	20.61	24	-3.39																		
	27710	2310	QPSK	1	49	23.35	20.65	24	-3.35																		
	27710	2310	UT SIX	25	12	22.49	19.79	24	-4.21																		
				50	0	22.50	19.80	24	-4.2																		
				1	0	22.49	19.79	24	-4.21																		
	27710	2310	16QAM	1	49	22.44	19.74	24	-4.26																		
	27710	2310	TOCAM	25	12	21.62	18.92	24	-5.08																		
10				50	0	21.39	18.69	24	-5.31																		
10				1	0	21.49	18.79	24	-5.21																		
	27710	2310	64000	640 AM	640 AM	640 AM	640AM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM -	64QAM	64QAM -	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	1	49	21.47	18.77	24	-5.23
	27710	2310		25	12	20.51	17.81	24	-6.19																		
				50	0	20.55	17.85	24	-6.15																		
				1	0	18.34	15.64	24	-8.36																		
	27710	2310	256QAM	1	49	18.25	15.55	24	-8.45																		
	27710	2310	230QAW	25	12	17.55	14.85	24	-9.15																		
				50	0	17.45	14.75	24	-9.25																		

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### Report No.: ER/2020/30083 Page 80 of 554

ntenna g	gain (dBi)	-2.3			<u> </u>				
			LTE Band	1 38_U	plink frec	uency band : 257			-
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.38	21.08	33	-11.92
			0.001/	1	24	23.26	20.96	33	-12.04
	37775	2572.5	QPSK	12	6	22.25	19.95	33	-13.05
				25	0	22.30	20.00	33	-13
				1	0	23.26	20.96	33	-12.04
	20000	2505	ODCK	1	24	23.32	21.02	33	-11.98
	38000	2595	QPSK	12	6	22.34	20.04	33	-12.96
				25	0	22.45	20.15	33	-12.85
				1	0	23.69	21.39	33	-11.61
	38225	2617.5	QPSK	1	24	23.18	20.88	33	-12.12
	30225	2017.5	QF3K	12	6	22.13	19.83	33	-13.17
				25	0	22.27	19.97	33	-13.03
				1	0	22.45	20.15	33	-12.85
	37775	2572.5	16QAM	1	24	22.67	20.37	33	-12.63
	37773	2372.3	TOQAM	12	6	21.78	19.48	33	-13.52
				25	0	21.60	19.30	33	-13.7
				1	0	22.55	20.25	33	-12.75
	38000	2595	160AM	1	24	22.59	20.29	33	-12.71
	30000	2373	100/101	12	6	21.51	19.21	33	-13.79
				25	0	21.68	19.38	33	-13.62
				1	0	22.41	20.11	33	-12.89
	38225	2617.5	16QAM	1	24	22.54	20.24	33	-12.76
	30223	2017.5	TOQAM	12	6	21.55	19.25	33	-13.75
5				25	0	21.65	19.35	33	-13.65
5				1	0	22.50	20.20	33	-12.8
	37775	2572.5	64QAM	1	24	22.46	20.16	33	-12.84
	0///0	2072.0	01071	12	6	21.56	19.26	33	-13.74
				25	0	21.83	19.53	33	-13.47
				1	0	22.49	20.19	33	-12.81
	38000	2595	64QAM	1	24	22.45	20.15	33	-12.85
	00000	2070	0.0.0	12	6	21.66	19.36	33	-13.64
				25	0	21.71	19.41	33	-13.59
				1	0	22.48	20.18	33	-12.82
	38225	2617.5	64QAM	1	24	22.29	19.99	33	-13.01
				12	6	21.81	19.51	33	-13.49
				25	0	21.48	19.18	33	-13.82
				1	0	19.31	17.01	33	-15.99
	37775	2572.5	256QAM	1	24	19.20	16.90	33	-16.1
				12	6	17.95	15.65	33	-17.35
				25	0	18.25	15.95	33	-17.05
				1	0	19.26	16.96	33	-16.04
	38000	2595	256QAM	1	24	19.09	16.79	33	-16.21
				12	6	18.13	15.83	33	-17.17
	L			25	0	18.31	16.01	33	-16.99
				1	0	19.28	16.98	33	-16.02
	38225	2617.5	256QAM	1	24	19.14	16.84	33	-16.16
				12	6	18.13	15.83	33	-17.17
				25	0	18.38	16.08	33	-16.92

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### Report No.: ER/2020/30083 Page 81 of 554

Antenna g	jain (dBi)	-2.3							
			LTE Band	1 38_U	olink frec	uency band : 257			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.56	21.26	33	-11.74
	37800	2575	QPSK	1	49	23.41	21.11	33	-11.89
	37800	2373	QFSK	25	12	22.41	20.11	33	-12.89
				50	0	22.34	20.04	33	-12.96
				1	0	23.43	21.13	33	-11.87
	38000	2595	QPSK	1	49	23.40	21.10	33	-11.9
				25	12	22.47	20.17	33	-12.83
				50	0	22.46	20.16	33	-12.84
				1	0	23.71	21.41	33	-11.59
	38200	2615	QPSK	1	49	23.25	20.95	33	-12.05
				25	12	22.28	19.98	33	-13.02
				50	0	22.44 22.46	20.14	33 33	-12.86
				1	0	22.40	20.16 20.37	33	-12.84 -12.63
	37800	2575	16QAM	1 25	49 12	22.87	19.49	33	-12.63
				25 50	0	21.79	19.49	33	-13.63
				50 1	0	21.67	20.36	33	-13.63
						22.59	20.38	33	-12.04
	38000	2595	16QAM	1	49	22.59	19.33	33	-12.71
				25	12	21.80	19.50	33	-13.57
				50	0	21.80	20.25	33	-13.5
				1	0			33	
	38200	2615	16QAM	1	49	22.71	20.41		-12.59
				25	12	21.72	19.42	33	-13.58
10				50	0	21.69	19.39	33	-13.61
10				1	0	22.49	20.19	33	-12.81
	37800	2575	64QAM	1	49	22.47	20.17	33	-12.83
				25	12	21.73	19.43	33	-13.57
				50	0	21.83	19.53	33	-13.47
				1	0	22.48	20.18	33	-12.82
	38000	2595	64QAM	1	49	22.44	20.14	33	-12.86
				25	12	21.77	19.47	33	-13.53
				50	0	21.75	19.45	33	-13.55
				1	0	22.40	20.10	33	-12.9
	38200	2615	64QAM	1	49	22.43	20.13	33	-12.87
				25	12	21.88	19.58	33	-13.42
				50	0	21.59	19.29	33	-13.71
				1	0	19.38	17.08	33	-15.92
	37800	2575	256QAM	1	49	19.32	17.02	33	-15.98
				25	12	18.11	15.81	33	-17.19
				50	0	18.34	16.04	33	-16.96
				1	0	19.34	17.04	33	-15.96
	38000	2595	256QAM	1	49	19.21	16.91	33	-16.09
				25	12	18.32	16.02	33	-16.98
				50	0	18.38	16.08	33	-16.92
				1	0	19.38	17.08	33	-15.92
	38200	2615	256QAM	1	49	19.23	16.93	33	-16.07
				25	12	18.26	15.96	33	-17.04
				50	0	18.43	16.13	33	-16.87

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### Report No.: ER/2020/30083 Page 82 of 554

ntenna g	jain (dBi)	-2.3							
			LTE Band	1 38_U	olink frec	uency band : 257			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.68	21.38	33	-11.62
	27025		QPSK	1	74	23.59	21.29	33	-11.71
	37825	2577.5	QPSK	36	19	22.60	20.30	33	-12.7
				75	0	22.50	20.20	33	-12.8
				1	0	23.52	21.22	33	-11.78
	38000	2595	QPSK	1	74	23.47	21.17	33	-11.83
	38000	2090	QF3K	36	19	22.58	20.28	33	-12.72
				75	0	22.53	20.23	33	-12.77
				1	0	23.71	21.41	33	-11.59
	38175	2612.5	QPSK	1	74	23.40	21.10	33	-11.9
	30175	2012.5	QF3K	36	19	22.39	20.09	33	-12.91
				75	0	22.49	20.19	33	-12.81
				1	0	22.63	20.33	33	-12.67
	37825	2577.5	16QAM	1	74	22.76	20.46	33	-12.54
	37625	2577.5	TOCAN	36	19	21.88	19.58	33	-13.42
				75	0	21.73	19.43	33	-13.57
				1	0	22.73	20.43	33	-12.57
	38000	2595	16QAM	1	74	22.70	20.40	33	-12.6
	38000	2090	TOCAN	36	19	21.81	19.51	33	-13.49
				75	0	21.84	19.54	33	-13.46
				1	0	22.65	20.35	33	-12.65
	20175	2612 F	140 004	1	74	22.72	20.42	33	-12.58
	38175	2612.5	16QAM	36	19	21.81	19.51	33	-13.49
15				75	0	21.83	19.53	33	-13.47
15				1	0	22.46	20.16	33	-12.84
	27025		( 40 ANA	1	74	22.45	20.15	33	-12.85
	37825	2577.5	64QAM	36	19	21.79	19.49	33	-13.51
				75	0	21.97	19.67	33	-13.33
				1	0	22.47	20.17	33	-12.83
	38000	2595	64QAM	1	74	22.46	20.16	33	-12.84
	38000	2090	04QAW	36	19	21.80	19.50	33	-13.5
				75	0	21.82	19.52	33	-13.48
				1	0	22.49	20.19	33	-12.81
	38175	2612.5	64QAM	1	74	22.43	20.13	33	-12.87
	30173	2012.3		36	19	21.94	19.64	33	-13.36
				75	0	21.75	19.45	33	-13.55
				1	0	19.40	17.10	33	-15.9
	37825	2577.5	256QAM	1	74	19.44	17.14	33	-15.86
	57025	2011.0	230QAW	36	19	18.23	15.93	33	-17.07
				75	0	18.45	16.15	33	-16.85
				1	0	19.49	17.19	33	-15.81
	38000	2595	256QAM	1	74	19.40	17.10	33	-15.9
	30000	2040	ZOQAW	36	19	18.42	16.12	33	-16.88
				75	0	18.40	16.10	33	-16.9
				1	0	19.49	17.19	33	-15.81
	20175	2412 F	2540 414	1	74	19.36	17.06	33	-15.94
	38175	2612.5	256QAM	36	19	18.29	15.99	33	-17.01
				75	0	18.45	16.15	33	-16.85

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### Report No.: ER/2020/30083 Page 83 of 554

ntenna g	gain (dBi)	-2.3							
			LTE Band	1 38_U	olink frec	uency band : 257			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.71	21.41	33	-11.59
	37850	2590	QPSK	1	99	23.59	21.29	33	-11.71
	37850	2580	UPSK	50	25	22.71	20.41	33	-12.59
				100	0	22.67	20.37	33	-12.63
				1	0	23.66	21.36	33	-11.64
	38000	2595	QPSK	1	99	23.52	21.22	33	-11.78
	38000	2375	QFSK	50	25	22.64	20.34	33	-12.66
				100	0	22.64	20.34	33	-12.66
				1	0	23.69	21.39	33	-11.61
	38150	2610	QPSK	1	99	23.53	21.23	33	-11.77
	30130	2010	QFSK	50	25	22.53	20.23	33	-12.77
				100	0	22.62	20.32	33	-12.68
				1	0	22.81	20.51	33	-12.49
	37850	2580	16QAM	1	99	22.79	20.49	33	-12.51
	37830	2300	TOQAM	50	25	21.91	19.61	33	-13.39
				100	0	21.83	19.53	33	-13.47
				1	0	22.80	20.50	33	-12.5
	38000	2595	16QAM	1	99	22.83	20.53	33	-12.47
	38000	2090	TOCAN	50	25	21.84	19.54	33	-13.46
				100	0	21.95	19.65	33	-13.35
				1	0	22.77	20.47	33	-12.53
	20150	2/10	1/0 414	1	99	22.72	20.42	33	-12.58
	38150	2610	16QAM	50	25	21.86	19.56	33	-13.44
20				100	0	21.83	19.53	33	-13.47
20				1	0	22.48	20.18	33	-12.82
	27050	25.00	( 40 ANA	1	99	22.45	20.15	33	-12.85
	37850	2580	64QAM	50	25	21.90	19.60	33	-13.4
				100	0	21.97	19.67	33	-13.33
				1	0	22.46	20.16	33	-12.84
	20000	2505	( 40 ANA	1	99	22.43	20.13	33	-12.87
	38000	2595	64QAM	50	25	21.81	19.51	33	-13.49
				100	0	21.86	19.56	33	-13.44
				1	0	22.47	20.17	33	-12.83
	20150	2410	640004	1	99	22.48	20.18	33	-12.82
	38150	2610	64QAM	50	25	21.98	19.68	33	-13.32
				100	0	21.87	19.57	33	-13.43
				1	0	19.47	17.17	33	-15.83
	37850	2580	256QAM	1	99	19.49	17.19	33	-15.81
	37850	2380	ZOQAW	50	25	18.41	16.11	33	-16.89
				100	0	18.53	16.23	33	-16.77
				1	0	19.50	17.20	33	-15.8
	20000	25.05		1	99	19.46	17.16	33	-15.84
	38000	2595	256QAM	50	25	18.57	16.27	33	-16.73
				100	0	18.45	16.15	33	-16.85
				1	0	19.47	17.17	33	-15.83
	20150	2410		1	99	19.43	17.13	33	-15.87
	38150	2610	256QAM	50	25	18.48	16.18	33	-16.82
				100	0	18.45	16.15	33	-16.85

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### Report No.: ER/2020/30083 Page 84 of 554



	jain (dBi)	-3	LTE	E Band 4	1_Uplink frequ	ency band : 2496 t	o 2690 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.49	20.49	33	-12.51
	39675	2498.5	QPSK	1	24	23.18	20.18	33	-12.82
				12	6	22.20	19.20	33	-13.8
				25	0	22.52	19.52	33	-13.48
				1	0	23.18	20.18	33	-12.82
	40620	2593	QPSK	1	24	23.22	20.22	33	-12.78
				12	6	22.12	19.12	33	-13.88
				25	0	22.33	19.33	33	-13.67
				1	0	23.59	20.59	33	-12.41
	41565	2687.5	QPSK	1	24	23.38	20.38	33	-12.62
				12	6	22.24	19.24	33	-13.76
		ļ		25	0	22.37	19.37	33	-13.63
				1	0	22.50	19.50	33	-13.5
	39675	2498.5	16QAM	1 12	24	22.30 21.73	19.30 18.73	33	-13.7 -14.27
					6		18.73	33	
				25		21.79		33	-14.21
				1	0	22.43	19.43	33	-13.57
	40620	2593	16QAM	1	24	22.28	19.28	33	-13.72
				12	6	21.68	18.68		-14.32
				25 1	0	21.73 22.43	18.73 19.43	33 33	-14.27 -13.57
							19.43		
	41565	2687.5	16QAM	1 12	24	22.46		33	-13.54
					6	21.66	18.66	33	-14.34
5				25 1	0	21.86 22.44	18.86 19.44	33 33	-14.14 -13.56
				1	24	22.44	19.44	33	-13.50
	39675	2498.5	64QAM	12	6	21.39	19.41	33	-13.39
				25	0	21.39	18.23	33	-14.01
				23 1	0	22.48	19.48	33	-14.77
				1	24	22.40	19.30	33	-13.52
	40620	2593	64QAM	12	6	21.53	19.50	33	-14.47
				25	0	21.53	18.66	33	-14.47
				25 1	0	21.00	19.32	33	-14.34
				1	24	22.32	19.46	33	-13.54
	41565	2687.5	64QAM	12	6	21.55	18.55	33	-13.54
				25	0	21.40	18.40	33	-14.6
				1	0	19.44	16.44	33	-16.56
				1	24	19.48	16.48	33	-16.52
	39675	2498.5	256QAM	12	6	18.55	15.55	33	-17.45
				25	0	18.87	15.87	33	-17.13
				1	0	19.44	16.44	33	-16.56
				1	24	19.48	16.48	33	-16.52
	40620	2593	256QAM	12	6	18.61	15.61	33	-17.39
				25	0	18.64	15.64	33	-17.36
				1	0	19.24	16.24	33	-16.76
				1	24	19.46	16.46	33	-16.54
	41565	2687.5	256QAM	12	6	18.64	15.64	33	-17.36
				25	0	18.52	15.52	33	-17.48

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### Report No.: ER/2020/30083 Page 85 of 554



nerina g	ain (dBi)	-3	I TE	E Band /	1 Unlink from	ency band : 2496	to 2690 MHz		
				I		Conducted	EIRP	EIRP	
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Limit	Margin
(MHz)	Channel	(MHz)		Size	Offset	(dBm)	(dBm)	(dBm)	(dB)
				1	0	23.49	20.49	33	-12.51
			0.001/	1	49	23.24	20.24	33	-12.76
	39700	2501	QPSK	25	12	22.38	19.38	33	-13.62
				50	0	22.55	19.55	33	-13.45
				1	0	23.33	20.33	33	-12.67
				1	49	23.37	20.37	33	-12.63
	40620	2593	QPSK	25	12	22.24	19.24	33	-13.76
				50	0	22.39	19.39	33	-13.61
				1	0	23.59	20.59	33	-12.41
				1	49	23.40	20.40	33	-12.6
	41540	2685	QPSK	25	12	22.32	19.32	33	-13.68
				50	0	22.45	19.45	33	-13.55
				1	0	22.44	19.44	33	-13.56
				1	49	22.32	19.32	33	-13.68
	39700	2501	16QAM	25	12	21.82	18.82	33	-14.18
				50	0	21.93	18.93	33	-14.07
				1	0	22.53	19.53	33	-13.47
				1	49	22.27	19.27	33	-13.73
	40620	2593	16QAM	25	12	21.78	18.78	33	-14.22
				50	0	21.86	18.86	33	-14.14
				1	0	22.60	19.60	33	-13.4
				1	49	22.37	19.37	33	-13.63
	41540	2685	16QAM	25	12	21.77	18.77	33	-14.23
				50	0	21.87	18.87	33	-14.13
10				1	0	22.48	19.48	33	-13.52
				1	49	22.46	19.46	33	-13.54
	39700	2501	64QAM	25	12	21.55	18.55	33	-14.45
				50	0	21.42	18.42	33	-14.58
				1	0	22.49	19.49	33	-13.51
				1	49	22.38	19.38	33	-13.62
	40620	2593	64QAM	25	12	21.65	18.65	33	-14.35
				50	0	21.72	18.72	33	-14.28
				1	0	22.48	19.48	33	-13.52
				1	49	22.49	19.49	33	-13.51
	41540	2685	64QAM	25	12	21.58	18.58	33	-14.42
				50	0	21.56	18.56	33	-14.44
				1	0	19.44	16.44	33	-16.56
				1	49	19.49	16.49	33	-16.51
	39700	2501	256QAM	25	12	18.69	15.69	33	-10.31
					0	18.88	15.88	33	-17.31
				50 1	0	19.45	16.45	33	-17.12
				1	49	19.43	16.43	33	-16.52
	40620	2593	256QAM			19.46	15.76	33	-10.52
				25	12	18.76	15.76	33	-17.24
				50	0			33	
				1	0	19.40 19.47	16.40	33	-16.6 -16.53
	41540	2685	256QAM	1	49	19.47	16.47 15.70	33	-16.53
				25	12				
				50	0	18.70	15.70	33	-17.3

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### Report No.: ER/2020/30083 Page 86 of 554



Antenna g	jain (dBi)	-3	1.70	Rand 4	1 Unlink from	ency band : 2496 t	o 2690 MHz			
	r					Conducted	EIRP	EIRP	1	
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Limit	Margin	
(MHz)	Channel	(MHz)	Woddiddorf	Size	Offset	(dBm)	(dBm)	(dBm)	(dB)	
				1	0	23.58	20.58	33	-12.42	
				1	74	23.33	20.33	33	-12.67	
	39725	2503.5	QPSK	36	18	22.49	19.49	33	-13.51	
				75	0	22.71	19.71	33	-13.29	
				1	0	23.50	20.50	33	-12.5	
				1	74	23.46	20.46	33	-12.54	
	40620	2593	QPSK	36	18	22.30	19.30	33	-13.7	
				75	0	22.51	19.51	33	-13.49	
				1	0	23.66	20.66	33	-12.34	
				1	74	23.57	20.57	33	-12.43	
	41515	2682.5	QPSK	36	18	22.46	19.46	33	-13.54	
				75	0	22.52	19.52	33	-13.48	
				1	0	22.35	19.35	33	-13.65	
				1	74	22.33	19.32	33	-13.68	
	39725	2503.5	16QAM	36	18	21.87	18.87	33	-14.13	
				75	0	21.93	18.93	33	-14.07	
				1	0	22.56	19.56	33	-13.44	
				1	74	22.33	19.33	33	-13.67	
	40620	2593	16QAM	36	18	21.87	18.87	33	-14.13	
				75	0	21.96	18.96	33	-14.04	
			1	0	22.60	19.60	33	-14.04		
			2682.5 16QAM	1	74	22.00	19.37	33	-13.4	
	41515	2682.5		36	18	22.37	19.37	33	-13.03	
				75	0	21.88	18.88	33	-14.00	
15				1	0	22.49	19.49	33	-14.12	
				1	74	22.47	19.47	33	-13.51	
	39725	2503.5	64QAM	36	18	21.70	18.70	33	-13.55	
			040270	040270	75	0	21.60	18.60	33	-14.4
				1	0	22.45	19.45	33	-14.4	
				1	74	22.43	19.43	33	-13.55	
	40620	2593	64QAM	36	18	22.49	18.66	33	-13.31	
				75	0	21.00	18.78	33	-14.34	
				1	0	22.49	19.49	33	-14.22	
				1	74	22.49	19.49	33	-13.51	
	41515	2682.5	64QAM	36	18	22.48	19.48	33	-13.52	
				75	0	21.60	18.62	33	-14.4	
				75 1	0	19.44	16.44	33	-14.38	
					74	19.44	16.44	33	-16.51	
	39725	2503.5	256QAM	1 36	18	19.49	15.85	33	-16.51 -17.15	
				36 75	0			33		
					0	18.92 19.48	15.92	33	-17.08 -16.52	
				1 1	74	19.48	16.48 16.46	33	-16.52	
	40620	2593	256QAM		18	19.46		33	-16.54	
				36			15.86			
			ļ	75	0	18.88	15.88	33	-17.12	
				1	0	19.45	16.45	33	-16.55	
	41515	2682.5	256QAM	1	74	18.45	15.45	33	-17.55	
				36	18	18.84	15.84	33	-17.16	
				75	0	18.73	15.73	33	-17.27	

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### Report No.: ER/2020/30083 Page 87 of 554



intenna g	jain (dBi)	-3		E Band 4	1 Unlink frequ	ency band : 2496 t	o 2690 MHz							
				I		Conducted	EIRP	EIRP						
BW	UL	Frequency	Modulation	RB	RB	Average	Average	Limit	Margin					
(MHz)	Channel	(MHz)		Size	Offset	(dBm)	(dBm)	(dBm)	(dB)					
				1	0	23.66	20.66	33	-12.34					
				1	99	23.52	20.52	33	-12.48					
	39750	2506	QPSK	50	25	22.58	19.58	33	-13.42					
				100	0	22.73	19.73	33	-13.27					
				1	0	23.65	20.65	33	-12.35					
				1	99	23.51	20.51	33	-12.49					
	40620	2593	QPSK	50	25	22.36	19.36	33	-13.64					
				100	0	22.68	19.68	33	-13.32					
				1	0	23.72	20.72	33	-12.28					
				1	99	23.68	20.68	33	-12.32					
	41490	2680	QPSK	50	25	22.55	19.55	33	-13.45					
				100	0	22.67	19.67	33	-13.33					
				1	0	22.54	19.54	33	-13.46					
				1	99	22.41	19.41	33	-13.59					
	39750	2506	16QAM	50	25	21.94	18.94	33	-14.06					
				100	0	21.95	18.95	33	-14.05					
				100	0	22.58	19.58	33	-13.42					
				1	99	22.42	19.42	33	-13.58					
	40620	2593	16QAM	50	25	21.89	18.89	33	-14.11					
				100	0	21.96	18.96	33	-14.04					
			100	0	22.63	19.63	33	-14.04						
			1	99	22.50	19.50	33	-13.57						
	41490	2680	16QAM	50	25	22.30	19.50	33	-13.5					
				100	25	21.97	18.97	33	-14.03					
20					0	21.91	19.47	33	-14.09					
				1	99			33						
	39750	2506	64QAM	1 50	25	22.48 21.80	<b>19.48</b> 18.80	33	-13.52 -14.2					
			04QAW		040/101								33	
				100	0	21.64	18.64		-14.36					
				1	0	22.44	19.44	33	-13.56					
	40620	2593	64QAM	1	99	22.42	19.42	33	-13.58					
				50	25	21.72	18.72	33	-14.28					
				100	0	21.79	18.79	33	-14.21					
				1	0	22.48	19.48	33	-13.52					
	41490	2680	64QAM	1	99	22.48	19.48	33	-13.52					
				50	25	21.68	18.68	33	-14.32					
				100	0	21.80	18.80	33	-14.2					
				1	0	19.31	16.31	33	-16.69					
	39750	2506	256QAM	1	99	19.43	16.43	33	-16.57					
				50	25	18.68	15.68	33	-17.32					
				100	0	18.62	15.62	33	-17.38					
				1	0	19.46	16.46	33	-16.54					
	40620	2593	256QAM	1	99	19.44	16.44	33	-16.56					
				50	25	18.66	15.66	33	-17.34					
		ļ		100	0	18.65	15.65	33	-17.35					
				1	0	19.31	16.31	33	-16.69					
	41490	2680	256QAM	1	99	19.35	16.35	33	-16.65					
		2000	20002/101	50	25	18.70	15.70	33	-17.3					
				100	0	18.56	15.56	33	-17.44					

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### Report No.: ER/2020/30083 Page 88 of 554

			LTE Band	d 66_U	olink freq	uency band : 171	10 to 1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.24	22.14	30	-7.86
	131979	1710.7	QPSK	1	5	23.01	21.91	30	-8.09
	131777	1710.7	QFSK	3	2	22.09	20.99	30	-9.01
				6	0	21.99	20.89	30	-9.11
				1	0	23.11	22.01	30	-7.99
	132322	1745	QPSK	1	5	22.82	21.72	30	-8.28
	102022	1745	QI SIX	3	2	21.87	20.77	30	-9.23
				6	0	21.87	20.77	30	-9.23
				1	0	22.93	21.83	30	-8.17
	132665	1779.3	QPSK	1	5	22.69	21.59	30	-8.41
	152005	1777.5	QI SIX	3	2	22.11	21.01	30	-8.99
				6	0	22.14	21.04	30	-8.96
				1	0	21.68	20.58	30	-9.42
	131979	1710.7	16QAM	1	5	21.88	20.78	30	-9.22
	131777	1710.7	100/101	3	2	20.87	19.77	30	-10.23
				6	0	20.79	19.69	30	-10.31
				1	0	22.36	21.26	30	-8.74
	132322	1745	16QAM	1	5	22.43	21.33	30	-8.67
	102022	1745	100/101	3	2	20.81	19.71	30	-10.29
				6	0	20.72	19.62	30	-10.38
				1	0	22.01	20.91	30	-9.09
	132665	132665 1779.3 16QAM	160 AM	1	5	22.04	20.94	30	-9.06
	132003		TOQAW	3	2	21.09	19.99	30	-10.01
1.4				6	0	21.13	20.03	30	-9.97
1.4				1	0	22.36	21.26	30	-8.74
	131979	1710.7	64QAM	1	5	22.19	21.09	30	-8.91
	131777	1710.7	040710	3	2	20.93	19.83	30	-10.17
				6	0	20.97	19.87	30	-10.13
				1	0	22.23	21.13	30	-8.87
	132322	1745	64QAM	1	5	22.32	21.22	30	-8.78
	132322	1745	04QAM	3	2	20.90	19.80	30	-10.2
				6	0	20.83	19.73	30	-10.27
				1	0	22.19	21.09	30	-8.91
	132665	1779.3	64QAM	1	5	21.89	20.79	30	-9.21
	132003	1777.5	04QAM	3	2	21.01	19.91	30	-10.09
				6	0	21.11	20.01	30	-9.99
				1	0	19.48	18.38	30	-11.62
	131979	1710.7	256QAM	1	5	19.20	18.10	30	-11.9
	1317/7	1710.7	ZUQAW	3	2	18.63	17.53	30	-12.47
				6	0	18.61	17.51	30	-12.49
				1	0	19.40	18.30	30	-11.7
	132322	1745	256QAM	1	5	19.43	18.33	30	-11.67
	132322	1745	230QAW	3	2	18.72	17.62	30	-12.38
				6	0	18.53	17.43	30	-12.57
				1	0	19.43	18.33	30	-11.67
	132665	1779.3	256QAM	1	5	19.25	18.15	30	-11.85
	152005	1773.3	ZUQAW	3	2	18.57	17.47	30	-12.53
				6	0	18.56	17.46	30	-12.54

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### Report No.: ER/2020/30083 Page 89 of 554

intenna g	jain (dBi)	-1.1 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz										
	-		LTE Band	1 66_U	olink freq	uency band : 171	0 to 1780 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	23.29	22.19	30	-7.81			
	131987	1711.5	QPSK	1	14	23.07	21.97	30	-8.03			
	131707	1711.5	QUSK	8	4	22.12	21.02	30	-8.98			
				15	0	22.09	20.99	30	-9.01			
				1	0	23.27	22.17	30	-7.83			
	132322	1745	QPSK	1	14	22.86	21.76	30	-8.24			
	152522	1745	QUSIC	8	4	21.93	20.83	30	-9.17			
				15	0	21.95	20.85	30	-9.15			
				1	0	23.04	21.94	30	-8.06			
	132657	1778.5	QPSK	1	14	22.82	21.72	30	-8.28			
	152057	1770.5	QUSK	8	4	22.22	21.12	30	-8.88			
				15	0	22.15	21.05	30	-8.95			
				1	0	21.80	20.70	30	-9.3			
	131987	1711.5	16QAM	1	14	21.93	20.83	30	-9.17			
	131707	1711.5	TOQAM	8	4	21.06	19.96	30	-10.04			
				15	0	20.84	19.74	30	-10.26			
				1	0	22.48	21.38	30	-8.62			
	132322	1745	160AM	1	14	22.58	21.48	30	-8.52			
	132322	1745	TOQAM	8	4	20.91	19.81	30	-10.19			
			15	0	20.90	19.80	30	-10.2				
			1	0	22.20	21.10	30	-8.9				
	132657	1770 F	1778.5 16QAM	1	14	22.11	21.01	30	-8.99			
	132057	1778.5		8	4	21.11	20.01	30	-9.99			
3				15	0	21.16	20.06	30	-9.94			
5				1	0	22.50	21.40	30	-8.6			
	131987	1711.5	64QAM	1	14	22.34	21.24	30	-8.76			
	131907	1711.5	04QAW	8	4	21.05	19.95	30	-10.05			
				15	0	21.01	19.91	30	-10.09			
				1	0	22.24	21.14	30	-8.86			
	132322	1745	64QAM	1	14	22.35	21.25	30	-8.75			
	132322	1745	64QAW	8	4	21.01	19.91	30	-10.09			
				15	0	20.90	19.80	30	-10.2			
				1	0	22.19	21.09	30	-8.91			
	132657	1778.5	64QAM	1	14	22.02	20.92	30	-9.08			
	132037	1770.3		8	4	21.05	19.95	30	-10.05			
				15	0	21.25	20.15	30	-9.85			
				1	0	19.44	18.34	30	-11.66			
	131987	1711.5	256QAM	1	14	19.04	17.94	30	-12.06			
	131707	1711.5	230QAW	8	4	18.45	17.35	30	-12.65			
				15	0	19.36	18.26	30	-11.74			
				1	0	19.25	18.15	30	-11.85			
	132322	1745	256QAM	1	14	18.53	17.43	30	-12.57			
	132322	1745	230QAW	8	4	18.46	17.36	30	-12.64			
				15	0	19.33	18.23	30	-11.77			
				1	0	19.33	18.23	30	-11.77			
	132657	1778.5	256QAM	1	14	19.18	18.08	30	-11.92			
	132037	1770.3	ZUQAW	8	4	18.44	17.34	30	-12.66			
				15	0	18.43	17.33	30	-12.67			

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### Report No.: ER/2020/30083 Page 90 of 554

Antenna g	jain (dBi)	-1.1										
			LTE Band	1 66_U	olink freq	uency band : 171	0 to 1780 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	23.38	22.28	30	-7.72			
	131997	1712.5	QPSK	1	24	23.18	22.08	30	-7.92			
	131997	1712.5	QF3K	12	6	22.15	21.05	30	-8.95			
				25	0	22.18	21.08	30	-8.92			
				1	0	23.41	22.31	30	-7.69			
	132322	1745	QPSK	1	24	23.00	21.90	30	-8.1			
	132322	1745	QFSK	12	6	22.06	20.96	30	-9.04			
				25	0	22.00	20.90	30	-9.1			
				1	0	23.10	22.00	30	-8			
	132647	1777.5	QPSK	1	24	22.93	21.83	30	-8.17			
	132047	1777.5	QFSK	12	6	22.34	21.24	30	-8.76			
				25	0	22.17	21.07	30	-8.93			
				1	0	21.97	20.87	30	-9.13			
	131997	1712.5	16QAM	1	24	22.10	21.00	30	-9			
	131997	1712.5	TOCAN	12	6	21.11	20.01	30	-9.99			
				25	0	20.94	19.84	30	-10.16			
				1	0	22.48	21.38	30	-8.62			
	132322	1745	16QAM	1	24	22.60	21.50	30	-8.5			
	132322	1745	TOCAN	12	6	21.09	19.99	30	-10.01			
				25	0	21.05	19.95	30	-10.05			
			1777.5 16QAM	1	0	22.36	21.26	30	-8.74			
	100/47	1777 F		1	24	22.21	21.11	30	-8.89			
	132647	1///.5		12	6	21.26	20.16	30	-9.84			
5				25	0	21.19	20.09	30	-9.91			
5				1	0	22.49	21.39	30	-8.61			
	131997	1710 F	64QAM	1	24	22.42	21.32	30	-8.68			
	131997	1712.5	64QAIVI	12	6	21.13	20.03	30	-9.97			
				25	0	21.09	19.99	30	-10.01			
				1	0	22.31	21.21	30	-8.79			
	132322	1745	64QAM	1	24	22.41	21.31	30	-8.69			
	132322	1745	04QAW	12	6	21.19	20.09	30	-9.91			
				25	0	20.94	19.84	30	-10.16			
				1	0	22.21	21.11	30	-8.89			
	132647	1777.5	64QAM	1	24	22.05	20.95	30	-9.05			
	132047	1777.5	04QAW	12	6	21.22	20.12	30	-9.88			
				25	0	21.31	20.21	30	-9.79			
				1	0	19.49	18.39	30	-11.61			
	131997	1712.5	256QAM	1	24	19.12	18.02	30	-11.98			
	131777	1712.5	2300710	12	6	18.59	17.49	30	-12.51			
				25	0	18.59	17.49	30	-12.51			
				1	0	19.46	18.36	30	-11.64			
	10000	1745	256QAM	1	24	19.42	18.32	30	-11.68			
	132322	1740	ZOQAW	12	6	18.63	17.53	30	-12.47			
				25	0	18.46	17.36	30	-12.64			
				1	0	19.41	18.31	30	-11.69			
	132647	1777.5	256QAM	1	24	19.31	18.21	30	-11.79			
	132047	1777.5	ZOQAW	12	6	18.45	17.35	30	-12.65			
				25	0	18.60	17.50	30	-12.5			

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### Report No.: ER/2020/30083 Page 91 of 554

ntenna g	jain (dBi)	-1.1							
			LTE Band	d 66_U	olink frec	uency band : 171	10 to 1780 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.43	22.33	30	-7.67
	132022	1715	QPSK	1	49	23.22	22.12	30	-7.88
	132022	1715	UPSK	25	12	22.19	21.09	30	-8.91
				50	0	22.30	21.20	30	-8.8
				1	0	23.45	22.35	30	-7.65
	132322	1745	QPSK	1	49	23.08	21.98	30	-8.02
	152522	1745	QI SK	25	12	22.19	21.09	30	-8.91
				50	0	22.15	21.05	30	-8.95
				1	0	23.28	22.18	30	-7.82
	132622	1775	QPSK	1	49	23.02	21.92	30	-8.08
	152022	1775	QI SK	25	12	22.45	21.35	30	-8.65
				50	0	22.23	21.13	30	-8.87
				1	0	22.16	21.06	30	-8.94
	132022	1715	16QAM	1	49	22.17	21.07	30	-8.93
	152022	1715	TOQAM	25	12	21.27	20.17	30	-9.83
				50	0	21.13	20.03	30	-9.97
				1	0	22.60	21.50	30	-8.5
	132322	1745	16QAM	1	49	22.65	21.55	30	-8.45
1	132322	1745	TOQAM	25	12	21.18	20.08	30	-9.92
				50	0	21.24	20.14	30	-9.86
			16QAM	1	0	22.44	21.34	30	-8.66
	132622 1775	1775		1	49	22.24	21.14	30	-8.86
	132022	1775		25	12	21.36	20.26	30	-9.74
10				50	0	21.20	20.10	30	-9.9
10				1	0	22.47	21.37	30	-8.63
	132022	1715	64QAM	1	49	22.49	21.39	30	-8.61
	132022	1715	04QAW	25	12	21.24	20.14	30	-9.86
				50	0	21.28	20.18	30	-9.82
				1	0	22.35	21.25	30	-8.75
	132322	1745	64QAM	1	49	22.47	21.37	30	-8.63
	132322	1745	04QAM	25	12	21.33	20.23	30	-9.77
				50	0	21.08	19.98	30	-10.02
				1	0	22.34	21.24	30	-8.76
	132622	1775	64QAM	1	49	22.22	21.12	30	-8.88
	152022	1775	0+0/10	25	12	21.36	20.26	30	-9.74
				50	0	21.37	20.27	30	-9.73
				1	0	19.40	18.30	30	-11.7
	132022	1715	256QAM	1	49	19.19	18.09	30	-11.91
	102022	1,10	2000/111	25	12	18.49	17.39	30	-12.61
				50	0	18.68	17.58	30	-12.42
				1	0	19.45	18.35	30	-11.65
	132322	1745	256QAM	1	49	19.38	18.28	30	-11.72
	132322	1745	2002710	25	12	18.56	17.46	30	-12.54
				50	0	18.51	17.41	30	-12.59
				1	0	19.41	18.31	30	-11.69
	132622	1775	256QAM	1	49	19.33	18.23	30	-11.77
	132022	1775	230QAW	25	12	18.43	17.33	30	-12.67
				50	0	18.62	17.52	30	-12.48

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### Report No.: ER/2020/30083 Page 92 of 554

ntenna g	jain (dBi)	-1.1							
			LTE Band	1 66_U	plink frec	uency band : 171			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.50	22.40	30	-7.6
	1000.17			1	74	23.35	22.25	30	-7.75
	132047	1717.5	QPSK	36	18	22.34	21.24	30	-8.76
				75	0	22.42	21.32	30	-8.68
				1	0	23.54	22.44	30	-7.56
	100000		0.001/	1	74	23.10	22.00	30	-8
	132322	1745	QPSK	36	18	22.28	21.18	30	-8.82
				75	0	22.29	21.19	30	-8.81
				1	0	23.42	22.32	30	-7.68
	100507	4770 5	0001	1	74	23.12	22.02	30	-7.98
	132597	1772.5	QPSK	36	18	22.49	21.39	30	-8.61
				75	0	22.30	21.20	30	-8.8
				1	0	22.31	21.21	30	-8.79
				1	74	22.24	21.14	30	-8.86
	132047	1717.5	16QAM	36	18	21.32	20.22	30	-9.78
				75	0	21.28	20.18	30	-9.82
				1	0	22.64	21.54	30	-8.46
				1	74	22.72	21.62	30	-8.38
	132322	1745	16QAM	36	18	21.37	20.27	30	-9.73
_				75	0	21.34	20.24	30	-9.76
				1	0	22.44	21.34	30	-8.66
			16QAM	1	74	22.28	21.18	30	-8.82
	132597	1772.5		36	18	21.48	20.38	30	-9.62
				75	0	21.28	20.18	30	-9.82
15				1	0	22.48	21.38	30	-8.62
				1	74	22.46	21.36	30	-8.64
	132047	1717.5	64QAM	36	18	21.33	20.23	30	-9.77
				75	0	21.33	20.23	30	-9.77
				1	0	22.41	21.31	30	-8.69
				1	74	22.49	21.39	30	-8.61
	132322	1745	64QAM	36	18	21.33	20.23	30	-9.77
				75	0	21.27	20.17	30	-9.83
				1	0	22.50	21.40	30	-8.6
	100507	1770 5	(40.004	1	74	22.33	21.23	30	-8.77
	132597	1772.5	64QAM	36	18	21.52	20.42	30	-9.58
				75	0	21.45	20.35	30	-9.65
				1	0	19.45	18.35	30	-11.65
	100047	1717 5		1	74	19.32	18.22	30	-11.78
	132047	1717.5	256QAM	36	18	18.66	17.56	30	-12.44
				75	0	18.74	17.64	30	-12.36
				1	0	19.50	18.40	30	-11.6
	100000	4745	25/2	1	74	19.50	18.40	30	-11.6
	132322	1745	256QAM	36	18	18.61	17.51	30	-12.49
				75	0	18.57	17.47	30	-12.53
				1	0	19.41	18.31	30	-11.69
	105			1	74	19.36	18.26	30	-11.74
	132597	1772.5	256QAM	36	18	18.61	17.51	30	-12.49
				75	0	18.62	17.52	30	-12.48

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### Report No.: ER/2020/30083 Page 93 of 554

ntenna g	gain (dBi)	-1.1							
			LTE Band	66_U	olink frec	uency band : 171			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	23.55	22.45	30	-7.55
	100070	1700	0001	1	99	23.41	22.31	30	-7.69
	132072	1720	QPSK	50	25	22.47	21.37	30	-8.63
				100	0	22.44	21.34	30	-8.66
				1	0	23.57	22.47	30	-7.53
	10000	1745	ODCK	1	99	23.19	22.09	30	-7.91
	132322	1745	QPSK	50	25	22.49	21.39	30	-8.61
				100	0	22.41	21.31	30	-8.69
				1	0	23.45	22.35	30	-7.65
	100570	1770	ODEK	1	99	23.28	22.18	30	-7.82
	132572	1770	QPSK	50	25	22.57	21.47	30	-8.53
				100	0	22.42	21.32	30	-8.68
				1	0	22.38	21.28	30	-8.72
	122072	1700	1/0 414	1	99	22.41	21.31	30	-8.69
	132072	1720	16QAM	50	25	21.43	20.33	30	-9.67
				100	0	21.42	20.32	30	-9.68
				1	0	22.64	21.54	30	-8.46
	10000	1745	1/0 414	1	99	22.77	21.67	30	-8.33
	132322	1745	16QAM	50	25	21.44	20.34	30	-9.66
_				100	0	21.51	20.41	30	-9.59
			16QAM	1	0	22.56	21.46	30	-8.54
				1	99	22.33	21.23	30	-8.77
	132572	1770		50	25	21.55	20.45	30	-9.55
~~				100	0	21.42	20.32	30	-9.68
20				1	0	22.49	21.39	30	-8.61
	100070	1700		1	99	22.45	21.35	30	-8.65
	132072	1720	64QAM	50	25	21.50	20.40	30	-9.6
				100	0	21.46	20.36	30	-9.64
				1	0	22.46	21.36	30	-8.64
	100000	4745	(10.004	1	99	22.45	21.35	30	-8.65
	132322	1745	64QAM	50	25	21.50	20.40	30	-9.6
				100	0	21.46	20.36	30	-9.64
				1	0	22.41	21.31	30	-8.69
	122572	1770		1	99	22.43	21.33	30	-8.67
	132572	1770	64QAM	50	25	21.57	20.47	30	-9.53
				100	0	21.48	20.38	30	-9.62
				1	0	19.44	18.34	30	-11.66
	132072	1720	256QAM	1	99	19.30	18.20	30	-11.8
	132072	1720	ZOQAIVI	50	25	18.55	17.45	30	-12.55
				100	0	18.58	17.48	30	-12.52
				1	0	19.34	18.24	30	-11.76
	122222	1745		1	99	19.32	18.22	30	-11.78
	132322	1745	256QAM	50	25	18.55	17.45	30	-12.55
				100	0	18.42	17.32	30	-12.68
				1	0	19.27	18.17	30	-11.83
	132572	1770		1	99	19.18	18.08	30	-11.92
	132372	1770	256QAM	50	25	18.56	17.46	30	-12.54
				100	0	18.48	17.38	30	-12.62

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### Report No.: ER/2020/30083 Page 94 of 554



	gain (dBi)		LT	E Ban	d 71_Upl	ink frequency ban	d: 663 to 698 MH	Z		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10N Hz)
				1	0	23.44	17.29	19.44	34.77	-17.48
				1	24	23.28	17.13	19.28	34.77	-17.64
	133147	665.5	QPSK	12	6	22.33	16.18	18.33	34.77	-18.59
				25	0	22.51	16.36	18.51	34.77	-18.41
				1	0	23.55	17.40	19.55	34.77	-17.37
				1	24	22.91	16.76	18.91	34.77	-18.01
	133297	680.5	QPSK	12	6	22.52	16.37	18.52	34.77	-18.40
				25	0	22.26	16.11	18.26	34.77	-18.66
				1	0	23.42	17.27	19.42	34.77	-17.50
	100117		0.001/	1	24	22.99	16.84	18.99	34.77	-17.93
	133447	695.5	QPSK	12	6	22.34	16.19	18.34	34.77	-18.58
				25	0	22.32	16.17	18.32	34.77	-18.60
				1	0	22.55	16.40	18.55	34.77	-18.37
	100117		4/0.004	1	24	22.09	15.94	18.09	34.77	-18.83
	133147	665.5	16QAM	12	6	21.29	15.14	17.29	34.77	-19.63
				25	0	21.42	15.27	17.42	34.77	-19.50
				1	0	22.28	16.13	18.28	34.77	-18.64
	100007	(00 F	4/0.004	1	24	21.83	15.68	17.83	34.77	-19.09
	133297	680.5	16QAM	12	6	21.44	15.29	17.44	34.77	-19.48
				25	0	21.45	15.30	17.45	34.77	-19.47
				1	0	22.26	16.11	18.26	34.77	-18.66
				1	24	22.00	15.85	18.00	34.77	-18.92
	133447	695.5	16QAM	12	6	21.26	15.11	17.26	34.77	-19.66
_				25	0	21.32	15.17	17.32	34.77	-19.60
5				1	0	22.38	16.23	18.38	34.77	-18.54
	100117			1	24	21.82	15.67	17.82	34.77	-19.10
	133147	665.5	64QAM	12	6	21.27	15.12	17.27	34.77	-19.65
				25	0	21.35	15.20	17.35	34.77	-19.57
				1	0	22.43	16.28	18.43	34.77	-18.49
	100007	(00 F	( 10 ANA	1	24	21.98	15.83	17.98	34.77	-18.94
	133297	680.5	64QAM	12	6	21.23	15.08	17.23	34.77	-19.69
				25	0	21.24	15.09	17.24	34.77	-19.68
				1	0	22.31	16.16	18.31	34.77	-18.61
	100447	(05 F	( 10 ANA	1	24	22.07	15.92	18.07	34.77	-18.85
	133447	695.5	64QAM	12	6	21.18	15.03	17.18	34.77	-19.74
				25	0	21.12	14.97	17.12	34.77	-19.80
				1	0	19.42	13.27	15.42	34.77	-21.50
	100147		25/0414	1	24	19.48	13.33	15.48	34.77	-21.44
	133147	665.5	256QAM	12	6	18.91	12.76	14.91	34.77	-22.01
				25	0	18.25	12.10	14.25	34.77	-22.67
				1	0	19.48	13.33	15.48	34.77	-21.44
	100007	(00 5	05/0004	1	24	19.46	13.31	15.46	34.77	-21.46
	133297	680.5	256QAM	12	6	18.74	12.59	14.74	34.77	-22.18
				25	0	18.59	12.44	14.59	34.77	-22.33
				1	0	19.47	13.32	15.47	34.77	-21.45
	100.117	( 0 <del>-</del> -	05/000	1	24	19.34	13.19	15.34	34.77	-21.58
	133447	695.5	256QAM	12	6	18.55	12.40	14.55	34.77	-22.37
				25	0	18.71	12.56	14.71	34.77	-22.21

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### Report No.: ER/2020/30083 Page 95 of 554



Antenna g	jain (dBi)	-4									
			LI	E Bano	a /1_upi	ink frequency ban		z EIRP	ERP	Manaia	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10M Hz)	
				1	0	23.63	17.48	19.63	34.77	-17.29	
	133172	668	QPSK	1	49	23.29	17.14	19.29	34.77	-17.63	
	133172	000	QF 3K	25	12	22.45	16.30	18.45	34.77	-18.47	
				50	0	22.69	16.54	18.69	34.77	-18.23	
				1	0	23.65	17.50	19.65	34.77	-17.27	
	133297	680.5	QPSK	1	49	23.02	16.87	19.02	34.77	-17.90	
	155277	000.5	0151	25	12	22.52	16.37	18.52	34.77	-18.40	
				50	0	22.45	16.30	18.45	34.77	-18.47	
				1	0	23.57	17.42	19.57	34.77	-17.35	
	133422	693	QPSK	1	49	23.07	16.92	19.07	34.77	-17.85	
	100122	070	Q1 SIX	25	12	22.40	16.25	18.40	34.77	-18.52	
				50	0	22.33	16.18	18.33	34.77	-18.59	
				1	0	22.56	16.41	18.56	34.77	-18.36	
	133172	668	16QAM	1	49	22.28	16.13	18.28	34.77	-18.64	
	100172	000	102,111	25	12	21.40	15.25	17.40	34.77	-19.52	
				50	0	21.60	15.45	17.60	34.77	-19.32	
				1	0	22.46	16.31	18.46	34.77	-18.46	
	133297	680.5	16QAM	1	49	21.98	15.83	17.98	34.77	-18.94	
	100277	00010	102,111	25	12	21.47	15.32	17.47	34.77	-19.45	
				50	0	21.47	15.32	17.47	34.77	-19.45	
				1	0	22.37	16.22	18.37	34.77	-18.55	
	133422	693	16QAM	1	49	22.19	16.04	18.19	34.77	-18.73	
	100122	070	102/11	25	12	21.35	15.20	17.35	34.77	-19.57	
10				50	0	21.35	15.20	17.35	34.77	-19.57	
				1	0	22.43	16.28	18.43	34.77	-18.49	
	133172	668	64QAM	1	49	21.98	15.83	17.98	34.77	-18.94	
				25	12	21.39	15.24	17.39	34.77	-19.53	
				50	0	21.38	15.23	17.38	34.77	-19.54	
				1	0	22.43	16.28	18.43	34.77	-18.49	
	133297	680.5	64QAM	1	49	22.03	15.88	18.03	34.77	-18.89	
			64QAM	64QAM	25	12	21.29	15.14	17.29	34.77	-19.63
				50	0	21.39	15.24	17.39	34.77	-19.53	
				1	0	22.44	16.29	18.44	34.77	-18.48	
	133422	693	64QAM	1	49	22.11	15.96	18.11	34.77	-18.81	
				25	12	21.19	15.04	17.19	34.77	-19.73	
				50	0	21.19	15.04	17.19	34.77	-19.73	
				1	0	19.07	12.92	15.07	34.77	-21.85	
	133172	668	256QAM	1	49	19.20	13.05	15.20	34.77	-21.72	
				25	12	18.51	12.36	14.51	34.77	-22.41	
				50	0	18.04	11.89	14.04	34.77	-22.88	
				1	0	19.47	13.32	15.47	34.77	-21.45	
	133297	680.5	256QAM	1	49	19.29	13.14	15.29	34.77	-21.63	
	133297 680.5 256QAN		25	12	18.41	12.26	14.41	34.77	-22.51		
				50	0	18.38	12.23	14.38	34.77	-22.54	
				1	0	19.44	13.29	15.44	34.77	-21.48	
	133422	693	256QAM	1	49	19.10	12.95	15.10	34.77	-21.82	
				25	12	18.23	12.08	14.23	34.77	-22.69	
	ļ			50	0	18.40	12.25	14.40	34.77	-22.52	

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### Report No.: ER/2020/30083 Page 96 of 554



Antenna g	jain (dBi)	-4	1.7	E Done		ink frequency ban	d . 442 to 400 MU	-		
BW	UL	Frequency	Modulation	RB	RB	Conducted Average	ERP Average	EIRP Average	EIRP Limit	Margin (dBm/10M
(MHz)	Channel	(MHz)	wouldion	Size	Offset	(dBm/10MHz)	(dBm/10MHz)	(dBm/10MHz)	(dBm/10MHz)	Hz)
				1	0	23.67	17.52	19.67	34.77	-17.25
	133197	670.5	QPSK	1	74	23.47	17.32	19.47	34.77	-17.45
	133197	070.5	QF3K	36	18	22.61	16.46	18.61	34.77	-18.31
				75	0	22.72	16.57	18.72	34.77	-18.20
				1	0	23.69	17.54	19.69	34.77	-17.23
	133297	680.5	QPSK	1	74	23.13	16.98	19.13	34.77	-17.79
	100277	000.0	Q1 SIX	36	18	22.59	16.44	18.59	34.77	-18.33
				75	0	22.60	16.45	18.60	34.77	-18.32
				1	0	23.59	17.44	19.59	34.77	-17.33
	133397	690.5	QPSK	1	74	23.18	17.03	19.18	34.77	-17.74
	100077	0,010	<u>u</u> r on	36	18	22.49	16.34	18.49	34.77	-18.43
				75	0	22.39	16.24	18.39	34.77	-18.53
				1	0	22.59	16.44	18.59	34.77	-18.33
	133197	670.5	16QAM	1	74	22.41	16.26	18.41	34.77	-18.51
	100177	07010		36	18	21.45	15.30	17.45	34.77	-19.47
				75	0	21.65	15.50	17.65	34.77	-19.27
				1	0	22.54	16.39	18.54	34.77	-18.38
	133297	680.5	16QAM	1	74	22.09	15.94	18.09	34.77	-18.83
				36	18	21.62	15.47	17.62	34.77	-19.30
				75	0	21.59	15.44	17.59	34.77	-19.33
				1	0	22.49	16.34	18.49	34.77	-18.43
	133397	690.5	16QAM	1	74	22.22	16.07	18.22	34.77	-18.70
				36	18	21.39	15.24	17.39	34.77	-19.53
15				75	0	21.36	15.21	17.36	34.77	-19.56
-				1	0	22.43	16.28	18.43	34.77	-18.49
	133197	670.5	64QAM	1	74	22.13	15.98	18.13	34.77	-18.79
				36	18	21.48	15.33	17.48	34.77	-19.44
				75	0	21.57	15.42	17.57	34.77	-19.35
				1	0	22.47	16.32	18.47	34.77	-18.45
	133297	680.5	64QAM	1	74	22.05	15.90	18.05	34.77	-18.87
				36	18	21.44	15.29	17.44	34.77	-19.48
				75	0	21.57	15.42	17.57	34.77	-19.35
				1	0	22.50	16.35	18.50	34.77	-18.42
	133397	690.5	64QAM	1	74	22.24	16.09	18.24	34.77	-18.68
				36	18	21.33	15.18	17.33	34.77	-19.59
				75 1	0	21.25 19.05	15.10 12.90	17.25 15.05	34.77 34.77	-19.67
					-					-21.87
	133197	670.5	256QAM	1	74	19.13	12.98	15.13	34.77	-21.79
				36 75	18 0	18.35	12.20	14.35	34.77	-22.57
				75 1	0	18.02 19.45	11.87 13.30	14.02 15.45	34.77 34.77	-22.90 -21.47
				1	74	19.45	13.30	15.45	34.77	-21.47
	133297	680.5	256QAM	36	18	19.20	12.18	14.33	34.77	-21.66
				36 75	0	18.33	12.18	14.33	34.77	-22.59
			ļ	75 1	0	19.33	13.18	14.34	34.77	-22.58
				1	74	19.33	13.18	15.33	34.77	-21.59 -21.87
	133397	690.5	256QAM	36	18	19.05	12.90	14.22	34.77	-21.87
										-22.70
	133397 690.5		75	0	18.22	12.07	14.22	34.77	Ĺ	

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### Report No.: ER/2020/30083 Page 97 of 554



Antenna g	gain (dBi)	-4		E Dave	171 11-1					
	<u> </u>		LI	E Bano	a /1_Upi	ink frequency ban		z EIRP	ERP	Manaia
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	ERP Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	ERP Limit (dBm/10MHz)	Margin (dBm/10M Hz)
				1	0	23.71	17.56	19.71	34.77	-17.21
	10000	(70	ODCK	1	99	23.51	17.36	19.51	34.77	-17.41
	133222	673	QPSK	50	25	22.78	16.63	18.78	34.77	-18.14
				100	0	22.79	16.64	18.79	34.77	-18.13
				1	0	23.70	17.55	19.70	34.77	-17.22
	133297	680.5	QPSK	1	99	23.24	17.09	19.24	34.77	-17.68
	133277	000.5	QF 3K	50	25	22.66	16.51	18.66	34.77	-18.26
				100	0	22.66	16.51	18.66	34.77	-18.26
				1	0	23.75	17.60	19.75	34.77	-17.17
	133372	688	QPSK	1	99	23.36	17.21	19.36	34.77	-17.56
	133372	000	QF 3K	50	25	22.56	16.41	18.56	34.77	-18.36
				100	0	22.56	16.41	18.56	34.77	-18.36
				1	0	22.71	16.56	18.71	34.77	-18.21
	133222	673	16QAM	1	99	22.45	16.30	18.45	34.77	-18.47
	133222	073	TOQAN	50	25	21.62	15.47	17.62	34.77	-19.30
				100	0	21.79	15.64	17.79	34.77	-19.13
				1	0	22.61	16.46	18.61	34.77	-18.31
	133297	680.5	16QAM	1	99	22.23	16.08	18.23	34.77	-18.69
	100277	000.0	100,111	50	25	21.64	15.49	17.64	34.77	-19.28
				100	0	21.62	15.47	17.62	34.77	-19.30
				1	0	22.60	16.45	18.60	34.77	-18.32
	133372	688	16QAM	1	99	22.31	16.16	18.31	34.77	-18.61
	133372	000	TOQAN	50	25	21.49	15.34	17.49	34.77	-19.43
20				100	0	21.37	15.22	17.37	34.77	-19.55
20				1	0	22.49	16.34	18.49	34.77	-18.43
	133222	673	64QAM	1	99	22.31	16.16	18.31	34.77	-18.61
	TOOLLL	070	0.2.11	50	25	21.55	15.40	17.55	34.77	-19.37
				100	0	21.75	15.60	17.75	34.77	-19.17
				1	0	22.47	16.32	18.47	34.77	-18.45
	133297	680.5	64QAM	1	99	22.05	15.90	18.05	34.77	-18.87
				50	25	21.52	15.37	17.52	34.77	-19.40
				100	0	21.61	15.46	17.61	34.77	-19.31
				1	0	22.43	16.28	18.43	34.77	-18.49
	133372	688	64QAM	1	99	22.25	16.10	18.25	34.77	-18.67
				50	25	21.45	15.30	17.45	34.77	-19.47
				100	0	21.27	15.12	17.27	34.77	-19.65
				1	0	19.22	13.07	15.22	34.77	-21.70
	133222	673	256QAM	1	99	19.35	13.20	15.35	34.77	-21.57
				50	25	18.48	12.33	14.48	34.77	-22.44
	L			100	0	18.31	12.16	14.31	34.77	-22.61
				1	0	19.47	13.32	15.47	34.77	-21.45
	133297	680.5	256QAM	1	99 25	19.41	13.26	15.41	34.77	-21.51
				50	25	18.54	12.39	14.54	34.77	-22.38
	L			100	0	18.61	12.46	14.61	34.77	-22.31
				1	0	19.50	13.35	15.50	34.77	-21.42
	133372	688	256QAM	1	99 25	19.21	13.06	15.21	34.77	-21.71
				50	25	18.48	12.33	14.48	34.77	-22.44
				100	0	18.50	12.35	14.50	34.77	-22.42

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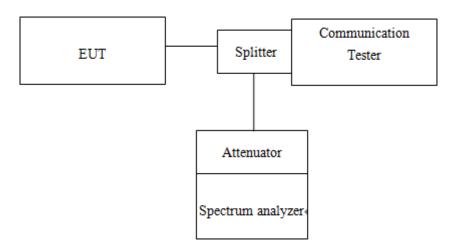


# 7 OCCUPIED BANDWIDTH MEASUREMENT

## 7.1 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.

# 7.2 Test Set-up



## 7.3 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%.

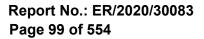
## 99% Bandwidth with detector sample

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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#### **Measurement Equipment Used** 7.4

### 2/3G

Co	onducted Emis	sion (measured a	t antenna port) T	est Site	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	_	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

#### 4G

Co	onducted Emis	sion (measured a	nt antenna port) T	est Site	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8821C		01/18/2020	
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

#### 7.5 **Measurement Result**

From		9	9% BW (MH	z)	26	dB BW (Mł	łz)
Freq. (MHz)	СН	GSM	GPRS	EDGE	GSM	GPRS	EDGE
(IVITIZ)		850	850	850	850	850	850
824.2	128	0.24720	0.24436	0.24627	0.3105	0.3176	0.3211
836.6	190	0.24438	0.24512	0.24383	0.3176	0.3225	0.3203
848.8	251	0.24435	0.24497	0.24433	0.3230	0.3178	0.3149

Freq.		9	9% BW (MH	z)	26	dB BW (Mł	łz)
(MHz)	СН	GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	0.24565	0.24293	0.24019	0.3149	0.3198	0.3159
1880.0	661	0.24172	0.24593	0.24394	0.3171	0.3144	0.3171
1909.8	810	0.24670	0.23988	0.24521	0.3172	0.3166	0.3161

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From		9	9% BW (MH	z)	26	dB BW (Mł	lz)
Freq. (MHz)	CH	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
		II	II	П	П	П	II
1852.40	9262	4.14380	4.13010	4.13990	4.678	4.689	4.684
1880.00	9400	4.13820	4.14090	4.14060	4.687	4.706	4.673
1907.60	9538	4.13450	4.12430	4.12850	4.688	4.688	4.685

Freq.		99	9% BW (MH	z)	26	dB BW (Mł	lz)
(MHz)	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(11112)		IV	IV	IV	IV	IV	IV
1712.40	1312	4.14240	4.14600	4.13280	4.691	4.690	4.682
1732.60	1413	4.13840	4.14030	4.12210	4.685	4.679	4.690
1752.60	1513	4.13870	4.14970	4.13030	4.681	4.681	4.674

Erog		99	9% BW (MH	z)	26	dB BW (Mł	lz)
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(11172)		V	V	V	V	V	V
826.40	4132	4.14740	4.13410	4.14160	4.702	4.682	4.690
836.60	4183	4.13060	4.13120	4.13860	4.672	4.695	4.685
846.60	4233	4.13240	4.11600	4.12770	4.682	4.668	4.674

			LTE	BAND 2 Ch	annel bandw	idth: 1.4MHz		-		11				LTE BA	ND 2 Chan	nel bandwid	th: 3MHz			—
Freq.	011		99% B	W (MHz)			26 dB BV	V (MHz)			Freq.	011		99% BV				26 dB B	W (MHz)	
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1850.7	18607	1.0940	1.0974	1.0953	1.0871	1.243	1.237	1.243	1.229		1851.5	18615	2.6926	2.7117	2.7037	2.7004	2.993	3.043	2.993	3.003
1880.0	18900	1.0956	1.0999	1.0962	1.0892	1.239	1.243	1.241	1.233		1880.0	18900	2.6933	2.7108	2.7038	2.7035	2.984	3.043	2.998	3.014
1909.3	19193	1.0908	1.0983	1.0943	1.0887	1.238	1.241	1.250	1.232		1908.5	19185	2.6935	2.7097	2.7037	2.7047	2.982	3.033	2.993	3.005
LTE BAND 2 Channel bandwidth: 5MHz													LTE BAI	ND 2 Chani	nel bandwid	th: 10MHz				
Freq.	CH 99% BW (MHz) 26 dB BW (MHz)						Freq.	СН		99% BV	V (MHz)			26 dB B	SW (MHz)					
(MHz)	СП	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	СП	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1852.5	18625	4.4939	4.4902	4.5039	4.4868	4.974	4.910	4.970	4.919		1855.0	18650	8.9872	8.9567	8.9847	8.9716	9.847	9.792	9.792	9.839
1880.0	18900	4.4898	4.4878	4.5028	4.4857	4.996	4.923	4.961	4.914		1880.0	18900	9.0045	8.9528	8.9808	8.9678	9.826	9.796	9.784	9.749
1907.5	19175	4.4917	4.4898	4.5008	4.4856	4.979	4.920	4.954	4.912		1905.0	19150	9.0053	8.9633	8.9975	8.9543	9.818	9.810	9.850	9.717
			LTE	BAND 2 CH	nannel bandw	idth: 15MHz								LTE BAI	ND 2 Chani	nel bandwid	th: 20MHz			
Freq.	СН		99% B	W (MHz)			26 dB BV	V (MHz)			Freq.	СН		99% BV	V (MHz)			26 dB B	SW (MHz)	
(MHz)	CIT	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	CIT	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1857.5	18675	13.436	13.466	13.473	13.462	14.26	14.66	14.81	14.62		1860.0	18700	17.906	17.937	17.922	17.933	19.46	19.46	19.38	19.34
1880.0	18900	13.501	13.475	13.479	13.450	14.67	14.68	14.70	14.63		1880.0	18900	17.947	17.968	17.939	17.911	19.51	19.53	19.53	19.26
1902.5	19125	13.468	13.449	13.459	13.448	14.66	14.63	14.75	14.72		1900.0	19100	17.928	17.954	17.929	17.924	19.41	19.48	19.48	19.35

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### Report No.: ER/2020/30083 Page 101 of 554



			¢						LTE BAI	ND 4 Chan	nel bandwid	dth: 3MHz									
Freq.	СН		99% BV	V (MHz)			26 dB B	SW (MHz)			Freq.	СН			99% BW	(MHz)			26 dB E	3W (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	(	(MHz)	CH	Q	PSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1710.7	19957	1.0951	1.0996	1.0928	1.0889	1.233	1.229	1.242	1.231	1	711.5	19965	2.	6939	2.6950	2.7021	2.6980	2.981	3.007	3.020	3.008
1732.5	20175	1.0929	1.1001	1.0959	1.0893	1.240	1.237	1.244	1.233	1	732.5	20175	2.	6980	2.6984	2.7024	2.7051	2.972	3.009	3.001	3.017
1754.3	20393	1.0958	1.1001	1.0994	1.0884	1.235	1.233	1.243	1.235	1	753.5	20385	2.	6984	2.6989	2.7007	2.6983	2.974	2.999	3.003	3.006
			LTE BA	ND 4 Char	nel bandwid	lth: 5MHz									LTE BAN	ID 4 Chanr	el bandwid	th: 10MHz			
Freq.	011		99% BV	V (MHz)			26 dB B	SW (MHz)			Freq.	011			99% BW	(MHz)			26 dB E	3W (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	(	(MHz)	CH	Q	PSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1712.5	19957	4.4901	4.4873	4.5039	4.4871	4.976	4.923	4.961	4.922	1	715.0	20000	8.	9792	8.9507	8.9785	8.9795	9.842	9.829	9.830	9.784
1732.5	20175	4.4915	4.4845	4.5009	4.4855	4.988	4.922	4.953	4.912	1	732.5	20175	9.	0018	8.9499	8.9796	8.9708	9.762	9.811	9.824	9.702
1752.5	20375	4.4941	4.4874	4.4997	4.4868	4.972	4.920	4.977	4.917	1	750.0	20350	9.	0072	8.9536	8.9994	8.9590	9.759	9.790	9.839	9.714
			LTE BA	ND 4 Chani	nel bandwid	th: 15MHz		1				4			LTE BAN	ID 4 Chanr	nel bandwid	th: 20MHz			
Freq.	СН		99% BV				26 dB B	SW (MHz)			Freq.	СН			99% BW				26 dB E	3W (MHz)	
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	(	(MHz)	СН	Q	PSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1717.5	20025	13.465	13.462	13.468	13.471	14.70	14.68	14.75	14.61	1	720.0	20050	17	7.944	17.942	17.932	17.921	19.44	19.33	19.45	19.31
1732.5	20175	13.502	13.468	13.467	13.452	14.63	14.63	14.74	14.62	1	732.5	20175	17	7.925	17.910	17.903	17.915	19.40	19.31	19.50	19.41
1747.5	20325	13.477	13.466	13.487	13.448	14.74	14.63	14.67	14.58	1	745.0	20300	17	7.915	17.902	17.922	17.913	19.41	19.34	19.50	19.28
		-	-	-					-			1								-	
			LTE	BAND 5 Ch	annel bandw	idth: 1.4MH	lz								LTEI	BAND 5 Ch	annel bandv	width: 3MHz	7		
Freq.	СН		99% BV					B BW (MHz				eq.	СН			BW (MHz)			T	BW (MHz)	
(MHz)		QPSK	16QAM	64QAM	256QAM	QPSK	16QA			_	· ·	IHz)		QPSK	16QAN	_	_	_	16QAM	64QAM	256QAM
824.7	20407	1.0956	1.0971	1.0948	1.0880	1.236	1.23			_			0415	2.6938	2.7131	_		_	3.046	2.991	3.015
836.5	20525	1.0920	1.0986	1.0948	1.0872	1.240	1.23						0525	2.6972	2.7080		_	_	3.042	2.988	3.008
848.3	20643	1.0940	1.0962	1.0964	1.0882	1.236	1.23	7 1.25	51 1.2	9	84	7.5 2	0635	2.6954	2.7085	2.696	4 2.7048	2.994	3.044	3.005	3.022
			1.75	DAND 5 O						_	_										
From	<u> </u>		99% BV		hannel band	Midth: 5MH		B BW (MHz	1		Er.	0.0				BAND 5 Chi BW (MHz)	annel bandw	ndth: 10MH		BW (MHz)	
Freq. (MHz)	CH	QPSK	99% dv 16QAM	64QAM	256QAM	QPSK	20 u 16QA		-	ΔM		eq. IHz)	CH	QPSK	16QAN		/ 256QAN	M QPSK	20 UB		256QAM
826.5	20425	4.4917	4.4845	4.4966	4.4882	4.997	4.90			_		,	0450	9.0134	8.9620				9.766	9.865	9.809
836.5	20525	4.4885	4.4810	4.4889	4.4831	4.968	4.90						0525	8.9838	8.9432	_	_	_	9.758	9.747	9.768
846.5	20625	4.4879	4.4760	4.4905	4.4854	4.973	4.90			_	84		0600	8.9959	8.9406				9.767	9.822	9.762
					11001		1170			~				017707	017100		017000	,1010		HOLL	,,,,,
			LTE BA	ND 7 Char	nel bandwid	lth: 5MHz									LTE BAN	ID 7 Chanr	el bandwid	th: 10MHz			
Freq.	СН		99% BV	<u> </u>				W (MHz)			Freq.	СН			99% BW	. ,				3W (MHz)	
(MHz)		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)				16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
2502.5	20775	4.4834	4.4863	4.5048	4.4885	4.813	4.932	4.990	4.912		505.0	20800			8.9692	8.9931	8.9844	9.839	9.842	9.815	9.748
2535.0	21100	4.4889	4.4859	4.4981	4.4914	4.988	4.924	4.952	4.918	_	535.0	21100	0.	_	8.9506	8.9985	8.9635	9.797	9.782	9.768	9.724
2567.5	21425	4.4954	4.4859	4.4981	4.4903	4.984	4.938	4.944	4.910	2	565.0	21400	8.	9867	8.9512	8.9753	8.9644	9.805	9.790	9.850	9.766
					<u> </u>																
	1				nel bandwid	th: 15MHz	0/ 10 0				<b>F</b>	r –					nel bandwid	th: 20MHz	0/ 10 2		
Freq. (MHz)	СН	000	99% BV	<u> </u>	2540444	ODCK	_	W (MHz)	2540414		Freq.	СН			99% BW	<u>\</u>	2540414	ODCK		BW (MHz)	2540414
(IVIHZ) 2507.5	20825	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM 14.71	64QAM	256QAM		(MHz) 2510.0	20850			16QAM	64QAM 17.923	256QAM	QPSK 19.56	16QAM 19.39	64QAM 19.44	256QAM 19.36
2535.0	20825	13.463	13.461 13.477	13.467	13.470	14.70	14.71	14.75	14.65 14.74		535.0	20850	_		<b>17.914</b> 17.910	17.923	17.941	19.56 19.47	19.39 19.46	19.44 19.48	19.36
2562.5	21100	<b>13.471</b> 13.467	13.477	13.466 13.476	13.457 13.450	14.72 14.69	14.73	14.76 14.77	14.74		560.0	21100			17.910	17.927	17.925 17.883	19.47	19.46	19.48	19.36
2002.0	21373	13.40/	13.475	13.470	13.430	14.09	14.09	14.77	14.00	2	.JUU.U	21300	1 1/	1.940	17.711	17.42	17.002	17.40	17.37	17.47	17.50

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#### Report No.: ER/2020/30083 Page 102 of 554



			I TF	RAND 12 C	hannel bandv	vidth <sup>.</sup> 1 4MF	17				٦	1			I TE F	RAND 12 CH	nannel band	width: 3MH	7		
Freq.				W (MHz)				3 BW (MI	H7)			Freq.				BW (MHz)				BW (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QA	`	QAM	256QAM		(MHz)	CH	QPSK	16QAN	- · · ·	/ 256QAN	1 QPSK	16QAM	- · · /	256QAM
699.7	23017	1.0942	1.0984	1.0952	1.0899	1.233	1.23	1 1	.242	1.230		700.5	23025	2.6930	2.7119	2.7032	2 2.7030	2.997	3.052	2.994	3.011
707.5	23095	1.0908	1.0983	1.0959	1.0886	1.241	1.239	) 1	.249	1.232		707.5	23095	2.6938	2.7149	2.7047	2.6973	2.982	3.039	3.005	3.008
715.3	23173	1.0931	1.0983	1.0968	1.0894	1.240	1.240	) 1	.248	1.231		714.5	23165	2.6957	2.7160	2.6970	2.6961	2.988	3.035	2.994	3.011
			LTE	BAND 12 (	Channel band	width: 5MHz	7								LTE B	AND 12 Ch	annel bandv	idth: 10Mł	Hz		
Freq.	011		99% BV	W (MHz)			26 d l	3 BW (MI	Hz)			Freq.	011		99%	BW (MHz)			26 dB	BW (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QA	M 64	QAM	256QAM		(MHz)	CH	QPSK	16QAN	64QAN	/ 256QAN	1 QPSK	16QAM	64QAM	256QAM
701.5	23035	4.4911	4.4853	4.4991	4.4841	4.974	4.89	7 4	4.949 4.898			704.0	23060	8.9696	8.9487	8.9879	8.9680	9.771	9.750	9.813	9.780
707.5	23095	4.4915	4.4810	4.4942	4.4843	4.958	4.902	2 4	<b>4.949</b> 4.919			707.5	23095	8.9997	8.9612	8.980	8.9672	9.796	9.842	9.823	9.698
713.5	23155	4.4910	4.4814	4.4983	4.4900	4.965	4.902	2 4	.946	4.915		711.0	23130	8.9953	8.9469	8.9805	5 8.9583	9.792	9.799	9.815	9.761
					-																
	1	LTE BAND 13 Channel bandwidth: 5MHz 99% BW (MHz) 26 dB BW (MHz)															nel bandwid	th: 10MHz			
Freq. (MHz)	СН	QPSK	99% B	W (MHz) 64QAM	256QAM	QPSK						eq. (Hz)	ж	2PSK	99% BW 16QAM	(MHz) 64QAM	256QAM	QPSK	26 dB E 16QAM	3W (MHz) 64QAM	256QAM
(IVIHZ) 779.5	23205	QPSK 4.4842	16QAM 4,4847	64QAM 4,4926	256QAM 4.4892	UPSK 4.957	16QAM 4.915	64QAN 4.958			`	,			16QAM 8.9345	64QAM 8.9687	256QAM 8.9291	0PSK 9.741	9.766	64QAM 9.803	256QAM 9.739
782.0	23203	4.4642	4.4647	4.4920	4.4692	4.937	4.915	4.930	_	4.090	70.	20	0	. 7047	U. 7JHJ	0.7007	0.7271	7.741	7.700	7.000	7.137
784.5	23255	4.5003	4.4973	4.5040	4.4934	5.001	4.953	4.953	_	4.910											
		1.0000		1.0010	1.1701	0.001	1.700	1.700		1.710											
	LTE BAND 17 Channel bandwidth: 5MHz														LTE B	AND 17 Ch	annel bandv	<i>i</i> idth: 10MF	Hz		
Freq.	011		99% BV	W (MHz)			26 d l	26 dB BW (MHz)				Freq.	011		99%	BW (MHz)			26 dB	BW (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QA	M 64	QAM	256QAM		(MHz)	CH	QPSK	16QAN	64QAN	/ 256QAN	1 QPSK	16QAM	64QAM	256QAM
706.5	23755	4.4870	4.4860	4.5264	4.4829	4.964	4.90	4	.960	4.904		709.0	23780	8.9810	8.9374	8.9718	-	9.786	9,785	9,795	9.726
710.0	23790	4.4894	4.4853	4.5029	4.4884	4.977	4.910	) 4	.947	4.906		710.0	23790	8.9890	8.9552	8.9725	5 8.9503	9.800	9.794	9,799	9.777
713.5	23825	4.4931	4.5286	4.4977	4.4870	4.978	4.815	_	.953	4.893		711.0	23800	8.9928	8.9545		_	9.784	9.762	9.828	9.778
. 1010	20020	1.1701	1.0200	1.1711	1.1070	1.770	1.010		,700	1.070			20000	0.7720	0.70 10	0.7002	0.7070	7.701	1.102	7.020	7.110
			LTE	BAND 25 C	hannel bandv	vidth: 1.4MF	Iz				1				LTE E	BAND 25 Cł	nannel band	width: 3MH	lz		
Freq.	CU		99% BV	W (MHz)			26 d l	3 BW (MI	Hz)			Freq.	СН		99%	BW (MHz)			26 dB	BW (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QA	M 64	QAM	256QAM		(MHz)	CH	QPSK	16QAN	64QAN	/ 256QAN	1 QPSK	16QAM	64QAM	256QAM
1850.7	26047	1.0951	1.1001	1.0946	1.0877	1.244	1.236	5 1	.239	1.235		1851.5	26055	2.6938	2.7145	2.7008	3 2.7005	2.980	3.022	2.988	3.001
1882.5	26365	1.0944	1.0983	1.0944	1.0882	1.241	1.242	2 1	.247	1.234		1882.5	26365	2.6938	2.7091	2.705	5 2.7040	2.987	3.030	2.990	3.009
1914.3	26683	1.0961	1.1013	1.0947	1.0885	1.239	1.242	2 1	.236	1.229		1913.5	26675	2.6942	2.7142	2.7003	3 2.7042	2.989	3.042	2.996	3.028
					Channel band	width: 5MH;			1_)			<u> </u>	1				annel bandv	idth: 10MF		DW/AUL>	
Freq.	СН	0001		W (MHz)		0001/		3 BW (MI		25/0444		Freq.	СН	0001		BW (MHz)	1 15/04		1	BW (MHz)	25/04/4
(MHz)	240/5	QPSK	16QAM	64QAM	256QAM	QPSK	16QA		QAM	256QAM	_	(MHz)	24000	QPSK	16QAN						256QAM
1852.5 1882.5	26065 26365	4.4904	4.4867	4.5039	4.4848	4.970	4.905		.945	4.909	_	1855.0 1882.5	26090 26365	8.9903	8.9643	-	_	9.800	9.806	9.804	9.776
1882.5	26365	4.4933	4.4805	4.4962	4.4842	4.981	4.933		.956	4.898	_	1882.5	26640	8.9973	8.9583			9.805	-	9.840	9.778
1712.0	20000	4.4904	4.4863	4.5025	4.4876	4.975	4.899	1 4	.952	4.921	1	1410.0	20040	8.9998	8.9541	8.9739	8.9593	9.819	9.774	9.794	9.811
			I TF	BAND 25 C	hannel band	vidth∙ 15M⊔	7									AND 25 Ch	annel bandv	idth: 20M	H7		
Freq.				W (MHz)		matti. TJIVII		3 BW (MI	H7)			Freq.	1			BW (MHz)				BW (MHz)	
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QA		QAM	256QAM		(MHz)	CH	QPSK	16QAN		/ 256QAN	1 QPSK			256QAM
1857.5	26115	13.468	13.473	13.484	13.435	14.64	14.59		4.80	14.66		1860.0	26140	17.896	17.912			19.34	19.41	19.45	19.37
1882.5	26365	13.470	13.468	13.478	13.447	14.69	14.65		4.75	14.75		1882.5	26365	17.953	17.929			19.36		19.36	19.38
1907.5	26615	13.458	13.469	13.473	13.445	14.65	14.60		4.82	14.55		1905.0	26590	17.911	17.886		_	19.37	-	19.42	19.37
L		101100		10.170	10.110	. 1.00	11.00	- I '		. 1.00	_	L	-			1			. 7.07		

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### Report No.: ER/2020/30083 Page 103 of 554



			LTE	BAND 26 C	hannel bandv	vidth: 1.4M	Hz								LTE B	AND 26 Ch	annel band	width: 3MH	Z		
Freq.	СН		99% B\	N (MHz)			26 d	B BW (MHz	,		Fre		СН			W (MHz)			26 dB	BW (MHz)	
(MHz)	GI	QPSK	16QAM	64QAM	256QAM	QPSK	16QA	M 64Q	AM 256	AM	(M	Hz)	UI	QPSK	16QAM	64QAN	1 256QAN		16QAM	64QAM	256QAM
824.7	26797	1.0934	1.0992	1.0979	1.0893	1.243	1.23	5 1.2	44 1.	32	82		26805	2.6927	2.7119	2.7011	2.6988	2.989	3.005	3.002	3.027
836.5	26915	1.0938	1.0992	1.0976	1.0888	1.233	1.23	5 1.2	43 1.	31	830	6.5	26915	2.6947	2.7125	2.7035	2.6975	2.997	2.996	3.002	3.024
848.3	27033	1.0944	1.0988	1.0960	1.0892	1.235	1.23	8 1.2	<b>45</b> 1.1	31	84	7.5	27025	2.6962	2.7132	2.7017	2.7025	3.003	3.038	2.974	3.018
					Channel band	width: 5MH											annel bandv	<i>i</i> idth: 10MH			
Freq.	СН			N (MHz)				B BW (MHz	<u> </u>		Fre		СН			W (MHz)				BW (MHz)	
(MHz)	_	QPSK	16QAM	64QAM	256QAM	QPSK	16QA		64QAM 256QA		(M			QPSK	16QAM	64QAN			16QAM	64QAM	256QAM
826.5	26815	4.4915	4.4810	4.5008	4.4818	4.981	4.94	-		-	829		26840	8.9817	8.9539	8.9859		9.800	9.791	9.852	9.820
836.5	26915	4.4913	4.4872	4.4979	4.4851	4.975	4.89			-	830		26915	8.9691	8.9329	8.9669	-	9.784	9.778	9.826	9.675
846.5	27015	4.4863	4.4836	4.4969	4.4859	4.997	4.91	1 4.9	<b>4.945</b> 4.904		844	4.0	26990	9.0138	8.9578	8.9966	8.9567	9.761	9.798	9.826	9.790
			LTE				-														
Freq.			99% B\		hannel band	NIQIN: 15IVII			W (MHz)												
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	20 u 16QA		,	AM		_				-					
831.5	26865	13.483	13.453	13.463	13.466	14.650	14.82			-											
836.5	26915	13.462	13.425	13.436	13.446	14.563	14.55	-													
841.5	26965	13.482	13.457	13.455	13.427	14.596	14.63	2 14.5	69 14	09											
		LT	E BAND 26	for part 90S	S Channel ba	indwidth: 1	.4MHz			ΙΓ				LTE E	AND 26 fc	r part 90S	Channel b	andwidth: (	3MHz		
Freq.	011		99% BV	N (MHz)			26 dB B	W (MHz)			Freq.	0			99% BW	MHz)			26 dB B	SW (MHz)	
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	CH	1 0	PSK 1	6QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
814.7	26697	1.0920	1.0997	1.0964	1.0896	1.239	1.234	1.248	1.232		815.5	2670	05 2.	6933	2.7088	2.6989	2.7015	2.994	3.045	2.990	3.019
819.0	26740	1.0925	1.0997	1.0960	1.0883	1.226	1.237	1.250	1.229		819.0	2674	40 2.	6961	2,7094	2.7013	2.7029	2.977	3.038	2.990	3.008
823.3	26783	1.0948	1.0973	1.0959	1.0881	1.237	1.241	1.247	1.231		822.5	267	75 <b>2</b> .	6976	2.7066	2.7015	2.7048	2.973	3.036	2.970	2.995
		[]	TE BAND 26	for part 90	S Channel b	andwidth:	5MHz			ΙΓ				LTE B	AND 26 fo	r part 90S	Channel ba	andwidth: 1	OMHz		
Freq.				N (MHz)				W (MHz)			Freq.				99% BW	1				SW (MHz)	
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	CH	1 0	PSK 1		64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
816.5	26715	4.4919	4.4882	4.5017	4.4849	4.993	4.924	4.937	4.921		819.0	2674				8.9448	8.9581	9.796	9.805	9.769	9.721
819.0	26740	4.4904	4.4868	4.4946	4.4821	4.961	4.916	4.963	4.889												
821.5	26765	4.4902	4.4820	4.5023	4.4856	4.988	4.888	4.941	4.919												
			1. 1020		1. 1000		1.000														

	LTE BAND 30 Channel bandwidth: 5MHz														
Freq.	СН		99% B\	N (MHz)		26 dB BW (MHz)									
(MHz)	СП	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM						
2307.5	27685	4.4977	4.4885	4.4952	4.4878	5.012	4.927	4.970	4.914						
2310.0	27710	4.4935	4.4934	4.5005	4.4864	4.991	4.936	4.953	4.926						
2312.5	27735	4.4936	4.4934	4.5019	4.4892	4.988	4.933	4.961	4.911						

	LTE BAND 30 Channel bandwidth: 10MHz														
	Freq.	СН		99% BV	V (MHz)		26 dB BW (MHz)								
	(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM					
	2310.0	27710	8.9975	8.9521	8.9873	8.9576	9.807	9.770	9.827	9.737					

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### Report No.: ER/2020/30083 Page 104 of 554



LTE BAND 38 Channel bandwidth: 5MHz													LTE BAND 38 Channel bandwidth: 10MHz											
Ereg 99% RW (MHz) 26 dR RW (MHz)												99% RW (MHz) 26 dB RW (MHz)												
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	2560	λM	(Mł		CH	QPSK		DAM DA	64QAM	256QAN	1 QP	SK	16QAM	64QAM	256QAM	
2572.5	37775	4.4989	4.4949	4.5074	4.4756	4.986	4.931	4.941	4.8		257	,	37800	8.9818	_	9724	8.9794	8.9718	_		9.786	9.807	9.777	
2595.0	38000	4.4980	4.4975	4.5045	4.4792	4.975	4.922	4.974	4.9		259		38000	8.9707	-	9781	8.9729	8.9719	-	748	9.809	9.819	9.701	
2617.5	38225	4.5048	4.5204	4.5071	4.4753	4.963	4.984	4.985	4.8		261		38200	8.9735	_	9753	8.9601	8.9713	_		9.732	9,779	9.741	
		1.0010	1.0201	1.0071	1.1700	1.700	1.701	1.700	1.0		-			0.7700	0.1	//00	0.7001	0.7710	7.1		7.102	7.117	7.7 11	
			LTE BAN	VD 38 Chan	nel bandwid	dth: 15MHz									LI	TE BAN	D 38 Chan	nel bandv	vidth: 2	0MHz				
Freq.			99% BV					W (MHz)			Fre	ea.				9% BW					26 dB B	W (MHz)		
(MHz)	СН	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	2560	DAM	(Mł		СН	QPSK		DAM	64QAM	256QAN	1 QP	SK	16QAM	64QAM	256QAM	
2577.5	37825	13.475	13.484	13.470	13.468	14.58	14.61	14.66	14.	77	258	30.0	37850	17.928	17	.880	17.905	17.871	19	.42	19.31	19.34	19.34	
2595.0	38000	13.475	13.487	13.481	13.465	14.53	14.56	14.70	14.	48	259	95.0	38000	17.935	17	.893	17.909	17.906	19	.52	19.25	19.50	19.28	
2612.5	38175	13.464	13.490	13.482	13.469	14.56	14.60	14.63	14.	60	261	0.0	38150	17.931	17	.904	17.900	17.894	19	.52	19.23	19.42	19.25	
									-		LTE BAND 41 Channel bandwidth: 10MHz													
[rear					hannel ban	dwidth: 5N			-)			E.c.	~		L				ndwidtl	n: 10N				
Freq. (MHz)	СН	QPSK	99% BV 16QAM	V (MHZ) 64QAM	256QAM	QPSK		3 BW (MH .M 64Q/	<u> </u>	256QAM		Fre (MH	· ( ·	H QP	SK T	99% I 16QAN	BW (MHz) A 64QAI		AM C	2PSK	26 dB	BW (MHz)	256QAM	
2498.5	39675	4.4953	4.4942	4.5127	4.4728	4.972	4.93			4.891	_	250	,			8.9613				2F 3K 9.705	9.753	9.788	9.731	
2593.0	40620	4.4955 4.4955	4.4942	4.5070	4.4726	4.972	4.93			4.892		259				8.9622				9.703	9.755 9.768	9.760	9.731	
2687.5	41565	4.4947	4.4942	4.5145	4.4729	4.955	4.94			4.894		268				8.963			-	9.762	9.734	9.805	9.789	
	LTE BAND 41 Channel bandwidth: 15MHz														LTE BAND 41 Channel bandwidth: 20MHz									
Freq.	СН		99% BV	( )		26 dB BW (MHz)						Fre	· (.	н			5 BW (MHz)			26 dB BW (MHz)				
(MHz)		QPSK	16QAM	64QAM	256QAM	QPSK				256QAM		(MH	IZ)	QP		16QAN				) PSK			256QAM	
2503.5	39725	13.483	13.476	13.494	13.466	14.64	14.5			14.70		250				17.880			-	9.46	19.33	19.46	19.23	
2593.0 2682.5	40620 41515	13.489	13.468	13.496	13.476	14.67 14.60	14.6			<b>14.72</b> 14.47	_	2593 2680			-	<b>17.88</b>				<b>9.53</b>	19.28 19.30	19.33 19.35	19.29 19.13	
2002.J	2682.5 41515 13.463 13.453 13.471 13.461 14.60 <b>14.68</b> 14.63 14.												5.0 415	17.	000	17.00	1 17.00	0 17.0	05	7.30	17.30	17.JJ	17.1J	
										ID 66 Char	inel band	width: 3	3MHz											
Freq.	СН		99% BV	V (MHz)			26 dB B	W (MHz)			Fre	req. CH		99% BW (MHz) 26 dB BW (M						W (MHz)	Hz)			
(MHz)	GIT	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	2560	DAM	(Mł	'	GIT	QPSK	160	DAM	64QAM	256QAN	I QP	SK	16QAM	64QAM	256QAM	
1710.7	131979	1.0959	1.0978	1.0964	1.0893	1.241	1.241	1.246	1.2			11.5	131987	2.6965	_	7152	2.7032	2.6988	2.9		3.046	3.012	3.024	
1745.0	132322	1.0950	1.1002	1.0962	1.0893	1.235	1.244	1.245	1.2		174		132322	2.6921	_	7068	2.6999	2.7027	2.9		3.013	2.982	3.002	
1779.3	132665	1.0920	1.1009	1.0954	1.0896	1.236	1.235	1.247	1.2	30	177	78.5	132657	2.6957	2.	7158	2.7038	2.7034	2.9	977	3.032	3.006	3.011	
				ND 66 Char	nol handwi	dth: 5MU-											D 66 Chan	nal hand	uidth: 1	<u>0M⊔~</u>				
Free	LTE BAND 66 Channel bandwidth: 5MHz           Freq.         99% BW (MHz)         26 dB BW (MHz)															9% BW			wuut: T		26 dB B	W (MH7)		
(MHz)	CH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	2560	DAM	Fre (Mł		СН	QPSK		QAM	64QAM	256QAN	1 QP	SK	16QAM	64QAM	256QAM	
1712.5	131997	4.4911	4.4868	4.4982	4.4864	4.978	4.921	4.937	4.8		`	15.0	132022	8.9927	_	9541	8.9843	8.9577	9.8	-	9.797	9.777	9.744	
1745.0	132322	4.4908	4.4856	4.4989	4.4885	4.977	4.911	4.969	4.9		174	45.0	132322	8.9825		9555	8.9822	8.9684	9.		9.811	9.790	9.772	
1777.5	132647	4.4891	4.4877	4.5011	4.4877	4.965	4.902	4.963	4.9				132622	9.0112	-	9574	8.9708	8.9550	-	_	9.754	9.836	9.797	
					nel bandwid	dth: 15MHz									LI	re ban	D 66 Chan	nel bandv	andwidth: 20MHz					
Freq.	СН		99% BV	· /		26 dB BW (MHz)					Fre		СН			9% BW	· · /					W (MHz)		
(MHz)		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	2560		(MI	<i>'</i>		QPSK	-	QAM	64QAM	256QAN	1 QP	SK	16QAM	64QAM	256QAM	
1717.5	132047	13.466	13.474	13.472	13.457	14.65	14.64	14.69	14.				132072	17.936	17	.929	17.936	17.924	19	.50	19.35	19.56	19.25	
1745.0	132322	13.468	13.467	13.466	13.446	14.70	14.61	14.69	14.	62	174		132322	17.920	_	.922	17.923	17.916	_		19.41	19.41	19.44	
1772.5	132597	13.459	13.457	13.463	13.444	14.63	14.64	14.70	14.	54	177	70.0	132572	17.932	17	.929	17.947	17.925	19	.51	19.38	19.46	19.37	

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### Report No.: ER/2020/30083 Page 105 of 554



	LTE BAND 71 Channel bandwidth: 5MHz												LTE BAND 71 Channel bandwidth: 10MHz											
Freq.	СН		99% BV	V (MHz)		26 dB BW (MHz)					Freq.	СН		99% BW (MHz)				26 dB BW (MHz)						
(MHz)	UI	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	GI	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM				
665.5	133147	4.4922	4.4838	4.4933	4.4864	4.990	4.936	4.946	4.902		688.0	133172	9.0063	8.9652	8.9860	8.9643	9.853	9.817	9.809	9.701				
680.5	133297	4.4879	4.4870	4.5000	4.4908	4.963	4.923	4.968	4.903		680.5	133297	8.9867	8.9501	8.9758	8.9496	9.845	9.805	9.815	9.818				
695.5	133447	4.4850	4.4843	4.4951	4.4900	4.983	4.907	4.962	4.919		693.0	133422	8.9816	8.9524	8.9868	8.9557	9.782	9.777	9.834	9.774				
			LTE BAND	) 71 Chan	nel bandwi	idth: 15M	Hz				LTE BAND 71 Channel bandwidth: 20MHz													
Freq.	СН		99% BV	V (MHz)		26 dB BW (MHz)					Freq.	Freq. 99% BW (MHz) 26 dB BW (MHz)												
(MHz)	СП	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		(MHz)	СП	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM				
670.5	133197	13.494	13.495	13.463	13.477	14.66	14.55	14.70	14.61		673.0	133222	17.915	17.898	17.921	17.909	19.54	19.34	19.46	19.32				
680.5	133297	13.465	13.445	13.457	13.442	14.73	14.65	14.57	14.67		680.5	133297	17.881	17.871	17.880	17.879	19.50	19.33	19.34	19.36				
690.5	133397	13.463	13.461	13.467	13.455	14.77	14.60	14.75	14.68		688.0	133372	17.927	17.914	17.903	17.896	19.40	19.33	19.38	19.28				

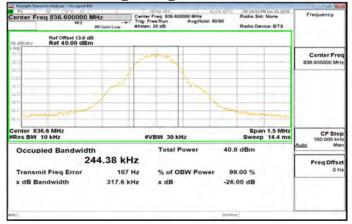
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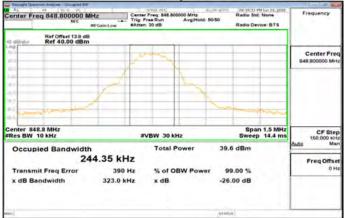
#### GSM\_850MHz\_LowCH128-824.2



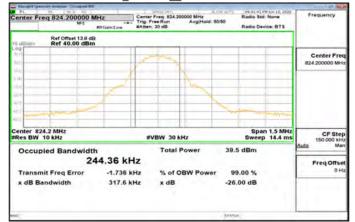


#### GSM\_850MHz\_MidCH190-836.6

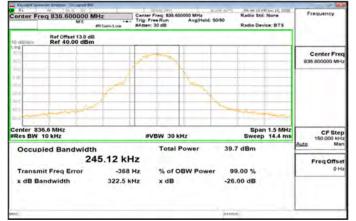
#### GSM\_850MHz\_HighCH251-848.8



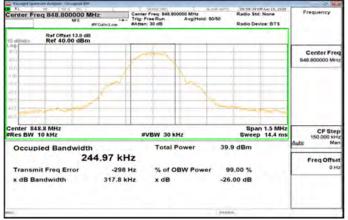
#### GPRS 850MHz LowCH128-824.2



#### GPRS\_850MHz\_\_MidCH190-836.6



#### GPRS\_850MHz\_\_HighCH251-848.8



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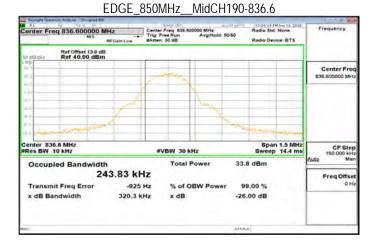
t (886-2) 2299-3279

f (886-2) 2298-0488

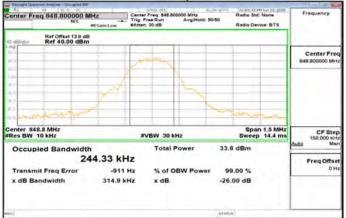


#### EDGE\_850MHz\_\_LowCH128-824.2

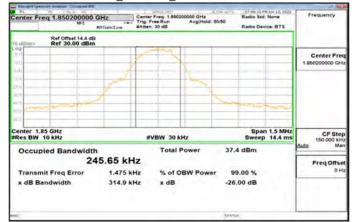




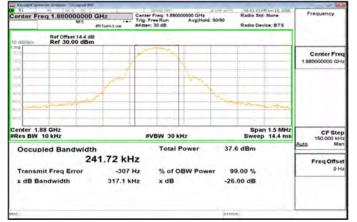
#### EDGE\_850MHz\_\_HighCH251-848.8



#### GSM\_1900MHz\_LowCH512-1850.2



#### GSM\_1900MHz\_MidCH661-1880



#### GSM\_1900MHz\_HighCH810-1909.8



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#### GPRS\_1900MHz\_LowCH512-1850.2





### GPRS\_1900MHz\_MidCH661-1880

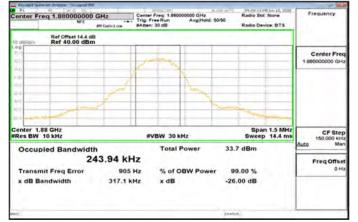
#### GPRS\_1900MHz\_HighCH810-1909.8



#### EDGE 1900MHz LowCH512-1850.2



#### EDGE\_1900MHz\_MidCH661-1880



#### EDGE\_1900MHz\_HighCH810-1909.8



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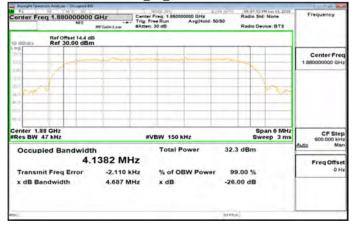
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# WCDMA\_B2\_LowCH9262-1852.4

Center Fre	nq 1.852400000	T INC	enter Freq 1.862 rig: Free Run Atten: 30 dB	AvgiHold: 501	Radio St	None None None	Frequency
(0. dilivaliy	Ref Offset 14.4 dB Ref 30.00 dBm						
	1					hen	Center Freq 1 852400000 GHz
Center 1.8 Res BW 4			#VBW 150	kHz	S Sv	pan 6 MHz veep 3 ms	CF Step 600.000 kHz
Occup	led Bandwidth 4.1	438 MHz		Power	32.2 dBm		FreqOffset
	it Freq Error ndwidth	3.816 kHz 4.678 MHz		BW Power	99.00 % -26.00 dB		0 Hz
					at a flat		



# WCDMA\_B2\_MidCH9400-1880

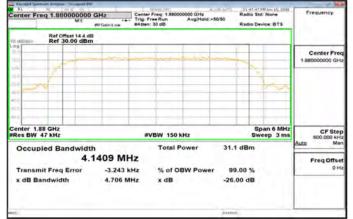
# WCDMA\_B2\_HighCH9538-1907.6

Center Fre	rq 1.9076000			1.907600000 G	Halts 50/50	Radio Std. None Radio Device BTS	Frequency
vib/8b 0/	Ref Offset 14. Ref 30.00 d			-	-		
10:0 10:0 0.00	-						Center Freq 1.907600000 GHg
~	4					the	
01 04							
Res BW 4			#VBW	150 KHz	_	Span 6 MHz Sweep 3 ms	500.000 kH
Occup	ied Bandwi		C	otal Power	32	.0 dBm	Aute Man
	it Freq Error ndwidth	4.1345 MH -3.786 k 4.688 M	Hz 9	6 of OBW P		99.00 % 6.00 dB	Freq Offset 0 Hz
00					B.F.M	nya	

### HSDPA\_B2\_LowCH9262-1852.4

Capagine Space	truer Anaryse: • Circulgood Byp		GRADING COLUMN	A 4/ C	1 2 10
	eq 1.852400000	Trip	Free Run AvgiHold >5 1.30 dB	Radio Std: None	Frequency
10 diguaiv	Ref Offset 14.4 dB Ref 30.00 dBm				
100 0.00	-			-	Center Fre 1.852400000 GH
-					
t0 1 40 1					
Res BW			VBW 150 kHz	Span 6 MHz Sweep 3 ms	600.000 kH
Occup	led Bandwidt	n	Total Power	31.4 dBm	Auto Ma
	4.1	1301 MHz			FreqOffse
Transm	it Freq Error	460 Hz	% of OBW Power	99.00 %	0 H
x dB Ba	indwidth	4.689 MHz	x dB	-26,00 dB	
eig l				STATUR	

# HSDPA\_B2\_MidCH9400-1880



# HSDPA\_B2\_HighCH9538-1907.6

Caraget A law	truits Anaguer - Occupant BW	5		Main 1997	~ ~	UN ANTO		N.S. 10, 2578	
	eq 1.907600000	GH2		reg 1.90760			Radio Std. Radio Dev	None	Frequency
TO dBildiv	Ref Offset 14.4 de Ref 30.00 dBm							1	
1000									Center Fred 1.907600000 GHz
4	1								
100	Y							n	
40.1 60.0		_		-					
Center 1.9 Res BW			#V	BW 150	kHz			an 6 MHz ep 3 ms	CF Step 600,000 kH
Occup	ied Bandwidt			Total P	ower	31.1	dBm		Audo: Mar
	4. hit Freq Error andwidth	-7.382 k 4.688 M	Hz	% of O x dB	BW Power		0.00 % 00 dB		Freq Offse 0 H
Arc.									

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# HSUPA\_B2\_LowCH9262-1852.4

Center Fre	q 1.852400000 № t	Trig	ter Freq 1.8524 Free Run ter: 30 dB	AvgiHold >50	Ra	dia Stil: None dia Device: BTS	Frequency
(0. dEkaliy	Ref Offset 14.4 dE Ref 30.00 dBm				_	(	
	Æ				~		Center Fn 1 852400000 G
Center 1.8 Res BW 4			#VBW 150	kHz		Span 6 MH Sweep 3 m	Z CF Ste 5 600.000 ki
Occupi	led Bandwidt 4.	h 1399 MHz	Total F	Power	31.1 dl	Bm	FreqOffs
Transmi x dB Ba	it Freq Error ndwidth	5.664 kHz 4.684 MHz	% of O x dB	BW Power	99.00 -26.00		0
					arkfut .		



# HSUPA\_B2\_MidCH9400-1880

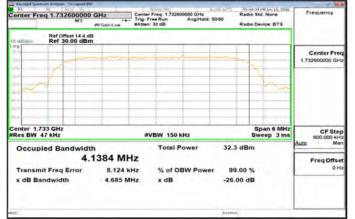
# HSUPA B2 HighCH9538-1907.6

Center Fre	rq 1.907600000	- Tri	nter Freq. 1.907 g: Free Run tten: 30 dB		124 al TO 10/50	Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 14.4 d Ref 30.00 dBn						
	1			*****			Center Free 1 907600000 GH
Center 1.9 #Res BW			#VBW 150			Span 6 Mi Sweep 3 n	
Transm	ied Bandwidt 4. it Freq Error indwidth	h 1285 MHz -11.106 kHz 4.685 MHz		Power DBW Power	99	00 % 00 dB	Freq Offset 0 Hz
10					BTATH.		

# WCDMA\_B4\_LowCH1312-1712.4

Keyogre Spars	true: Amagine: Citylapool. 819		T SENA INT						2
Center Fre	eq 1.712400000	Tr	inter Freq 1.7124 Ig Free Run Iden: 30 dB	Avg Hold >50	Rad	io Stat: No	one	Frequen	NCY.
10 digialiy	Ref Offset 14.4 dB Ref 30.00 dBm						5		
100					-		_	Cente 1.7124000	
0.00 0.00	1					N			
							-		
000							_		
Center 1.7 Res BW			#VBW 150	kHz		Span	6 MHz 3 ms	600.0	
Occup	led Bandwidth		Total F	Power	32.9 dB	m		Auto	Ma
Transm	4.1 it Freq Error	8.587 kHz		BW Power	99.00			Freq	Offse
	indwidth	4.691 MHz		BW Fower	-26.00 d	-			
					STATUS -				

# WCDMA\_B4\_MidCH1413-1732.6



# WCDMA\_B4\_HighCH1513-1752.6

Taxant 1 1pt	entrary draman - Charasant EW			2		
Center F	req 1.752600000		Center Freq 1.7620 Trig: Free Run #Atten: 30 dB		Radio Std: No Radio Device	Frequency
TO demain	Ref Offset 14.4 dE Ref 30.00 dBm					1
1400	Im		-		-	Center Fred 1.752600000 (24)
	4					-
						_
Center 1 #Res BW		1 1	#VBW 150	kHz	Span Sweep	600,000 kPt
Occu	pied Bandwidt	387 MH	Total	Power	32.2 dBm	Auto Mar
	4. mit Freq Error Sandwidth	-1.558 kH 4.681 MH	z % of C	DBW Power	99.00 % -26.00 dB	Freq Offset 0 Ho
And .					3448.6	

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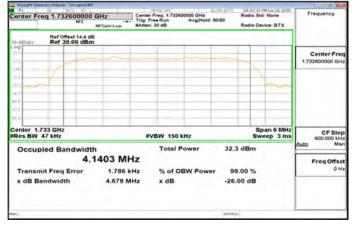
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# HSDPA B4 LowCH1312-1712.4

Center Fre	ng 1.71240000	U DITL.	Center Freq 1.712 Trig: Free Run Mitten: 30 dB		50	Radio Devis	None	Freque	incy
(0. dilivaliy	Ref Offset 14.4 Ref 30.00 dB								
00 00 00 00 00 00 00 00 00 00	£					1		Cent 1,712400	er Fred
Center 1.7 Res BW	47 kHz		#VBW 150			Swee	n 6 MHz sp 3 ms		F Step
Occup	led Bandwid	th .1460 MH:		Power	31.0	dBm		Free	offset
	it Freq Error Indwidth	-1.960 kH 4.690 MH		DBW Power		00 % 0 dB			0 Hz
					ana fut				_

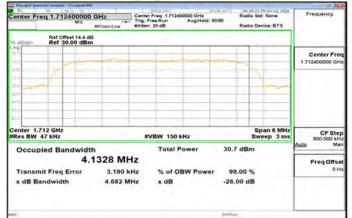


# HSDPA\_B4\_MidCH1413-1732.6

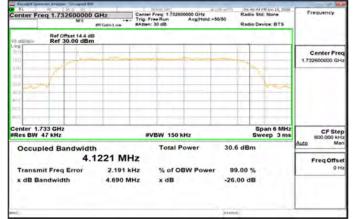
# HSDPA\_B4\_HighCH1513-1752.6

Center Fre	ng 1.75260000	0 GHz MFGain Low	Center F		AvgiHold	50/50	Radio Std. N Radio Device	one	Frequency
ND OBVOR	Ref Offset 14 4 Ref 30.00 dB					-			
2003 0.00	-								Center Freq 1 752600000 GHz
		1	-				1	~	
Ac 7								-	
Center 1.7 Res BW			#V	BW 1501	KHZ			6 MHz p 3 ms	CF Step
Occup	ied Bandwid 4	th .1497 Mł	Ηz	Total P	ower	31.3	2 dBm		Auto Man Freg Offset
	it Freq Error Indwidth	1.835 H 4.681 N		% of O x dB	BW Powe		9.00 % 00 dB		0 Ha
						117474			

# HSUPA B4 LowCH1312-1712.4



# HSUPA\_B4\_MidCH1413-1732.6



# HSUPA\_B4\_HighCH1513-1752.6

Keyneght Speet	truits Anamour. On capacit Eth	×	T. DRAME PRV.	7. 610		La LL MAR	
Center Fre	eq 1.752600000		Center Freq 1.76: Trig: Free Run #Atten: 30 dB		Radio Std: 1	None Frequ	ency
to dB/div	Ref Offset 14.4 dl Ref 30.00 dBn					1.1	
1400	-		-		-		ter Freq
	K I						
101							
40 A		-	+				
Center 1.7			#VBW 15	) kHz		p 3 ms soi	CF Step
Occup	led Bandwidt			Power	30.6 dBm	Aute	Man
	1	1303 MH				Fre	q Offset
	iit Freq Error Indwidth	-4.494 kH 4.674 MH		OBW Power	99.00 % -26.00 dB		010
And -					1448-5,		_

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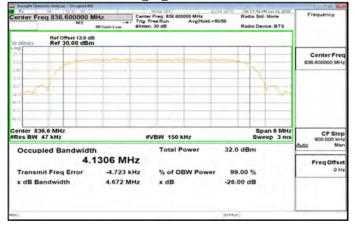
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# WCDMA\_B5\_LowCH4132-826.4

Center Fre	q 826.400000 M		Center Freq 226.400 Trig: Free Run #Atten: 30 dB	AvgiHeld 50150	Radio Std: None Radio Device: BTS	Frequency
(0. dB/div	Ref Offset 13.9 dB Ref 30.00 dBm			_		
1000- 0.000-						Center Fred 825.400000 MHz
-					h	
Center 826					Span 6 Mł	
Res BW 4			#VBW 150	Hz	Sweep 3 n	600.000 kHz
Occupi	ed Bandwidt	n	Total P	ower 32	2.0 dBm	Auto Man
	4.1	1474 MH	z			FreqOffset
	t Freq Error	-2.665 kH		BW Power	99.00 %	0 Hz
x dB Ba	ndwidth	4.702 MH	z xdB	-2	6.00 dB	1.0
					thui -	

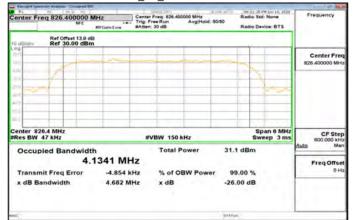


# WCDMA\_B5\_MidCH4183-836.6

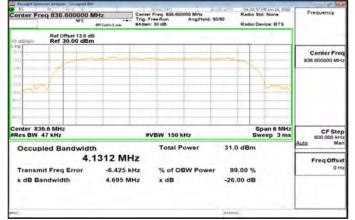
# WCDMA\_B5\_HighCH4233-846.6

Center Fre	rq 846.600000	MHz	Center Freq: 846.60000 MHz Trip: Freq: 846.60000 MHz Trip: Freq: 846.60000 MHz Matter: 30 dB			Radio Std. None Radio Device: BT	Frequency	
ND OBVOID	Ref Offset 13.8 d Ref 30.00 dBr							
100 100				-				Center Fr 846 500000 M
	£ 1		_	_				
				_				
-		+ +	_					-
Center 846 Res BW 4			#VB	W 150 M	Hz	_	Span 6 N Sweep 3	ms 500.000 k
Occupi	ied Bandwidt		11	Total P	ower	32.0	) dBm	Auto N
	4. it Freq Error ndwidth	1324 MH -9.329 ki 4.682 Mi	Hz	% of OI x dB	SW Power		0.00 % 00 dB	Freq Off
						BIAD		

# HSDPA\_B5\_LowCH4132-826.4



# HSDPA\_B5\_MidCH4183-836.6



# HSDPA\_B5\_HighCH4233-846.6

Keynghit Speet	trues Anamar Occupant BY	v	T SEALS INT.	T ADD A	10	
Center Fre	eq 846.600000 I №1	MHZ	Center Freq 848.6 Trig: Free Run #Atten: 30 dB	Avg/Hold: 50/50	Radio Std: None Radio Device: BTS	Frequency
VD dB/dly	Ref Offset 13.8 d Ref 30.00 dBn				_	
70.17 1404	-					Center Freq 846 500000 MHz
-					ha	
401						
Center 84			#VBW 150	KHZ	Span 6 MHz Sweep 3 ms	
Occup	ied Bandwidt 4.	h 1160 MH		Power 3	0.9 dBm	Auto Mar
	iit Freq Error Indwidth	-15.700 kl 4.668 Mi		DBW Power	99.00 % 26.00 dB	0 Ha
ed.				- 04	48.5	

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# HSUPA\_B5\_LowCH4132-826.4

Center Fre	NE 826.400000 M		Center Freq 826.4000 Frig Free Run (Atten: 30 dB	00 MHz AvgiHold 50/50	Radio Device: BTS	Frequency
(0. dilivativ	Ref Offset 13.8 de Ref 30.00 dBm					
1000- 0.000-	-				~	Center Freq 825.400000 MHz
					ha	
0.0						
Res BW 4			#VBW 150 kH	tz	Span 6 MHz Sweep 3 ms	CF Step 600.000 kHz
Occupi	ed Bandwidt		Total Po	wer 30	4 dBm	Auto Man
	4.	1416 MH2				FreqOffset
	it Freq Error ndwidth	-4.818 kH 4.690 MH			19.00 % 5.00 dB	0 Hz
				an hi	uel-	

Center Fre	NT 836.600000 M	MFGain Low	Center Freq: 836.60 Trig: Free Run #Atten: 30 dB	AvgiHeldi 50:50	Radio Device: 8TS	Frequency
(0 dB/diy	Ref Offset 13.8 dl Ref 30.00 dBm					
10:0 10:0	-	frence				Center Freq 835.500000 MHz
and the second	1	1			There	
Center 83		1	-			
Res BW			#VBW 150	kHz	Span 6 MHz Sweep 3 ms	CF Step 500.000 kHz
Occup	led Bandwidt		Total	Power 30	.4 dBm	Auto Man
		1386 MH			0125	Freq Offset
	it Freq Error indwidth	-7.209 ki 4.685 Mi			99.00 % 6.00 dB	
				intà	N.	

# HSUPA\_B5\_MidCH4183-836.6

# HSUPA\_B5\_HighCH4233-846.6

Center Fre	rq 846.600000   NFE	- ** Tri	Center Free 846.60000 MHz Trig: Free Run AvgiHold: 50'50 #Atten: 30 dB			In Std None So Device: BTS	Frequency	
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBr							
1003 0.003	-				-		Center Freq 845 500000 MHz	
~	£		-	-		h		
4:7 01								
Center 840 Res BW		1	#VBW 150	kHz		Span 6 MHz Sweep 3 ms	CF Step 500 000 kH	
Occup	ied Bandwidt 4.	h 1277 MHz	Total	Power	30.4 dB	m	Freq Offset	
	it Freq Error ndwidth	-14.386 kHz 4.674 MHz	% of C x dB	BW Power	99.00 -26.00 d		0 H	
					375746			

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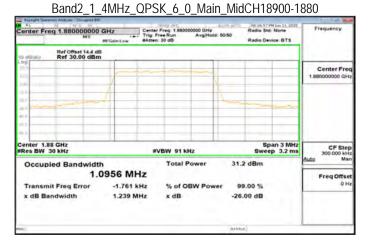
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# Band2\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH18607-1850.7

Center Fre	nq 1.850700000	Tr	ig: Free Run Avg	Allow Acros	Radio Stat N Radio Device	one	Frequen	τ¥.
(0. dilivaliy	Ref Offset 14.4 dB Ref 30.00 dBm					- 1		
1000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	Center 1.85070000	
Center 1.8 #Res BW			#VBW 91 kHz		Spar Sweep		300.00	
Occup	led Bandwidth 1.0	940 MHz	Total Powe	r 31.	3 dBm		Auto Freq C	Mar
	it Freq Error Indwidth	-2.081 kHz 1.242 MHz			9.00 % .00 dB			OH
				1745				-



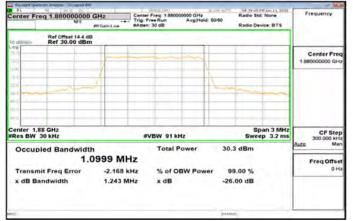
# Band2\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH19193-1909.3

FL.	NJ Star Octave IV				ALEN ALTO		PH Nov 11, 2020	0 00	
Center Fre	eq 1.909300000 G		Center Freq: 1.901 Trig: Free Run Mitten: 30 dB	Freq: 1.909300000 GHz Radiu Std: None ee Run AvgiHold:>50/50 30 dB Radio Device: BTS				Frequency	
10 dBVdiv	Ref Offset 14.4 dB Ref 30.00 dBm								
10:0 10:0		p-						Center Freq 1.909300000 GHz	
	-				1				
41									
Center 1.5			#VBW 91	-		S	pan 3 MHz	CF Step	
	ied Bandwidth			Power	30.0	8 dBm	ep a.z ms	300.000 kHg Auto Mar	
	C	908 MH						Freq Offset	
	hit Freq Error andwidth	-853 H 1.238 MH		OBW Powe		9.00 % .00 dB			
00					REARD	4			

#### Band2\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH18607-1850.7

Kayoget Spactrum Anaque: - Coulgout 619		17.17		2 🖬
Center Freq 1.850700000	Trip	er Freq 1 850700000 GHz Free Run Avg Hold - m: 30 dB	Soliso Radio Stal: None Radio Device: 615	Frequency
10 diludiv Ref 30.00 dBm				
100 0.00	1			Center Free 1.850700000 GH
10 A 07 8			han	-
409 000 000				
Center 1.851 GHz #Res BW 30 kHz		IVBW 91 kHz	Span 3 M Sweep 3.2 r	ns 300.000 kH
Occupied Bandwidth		Total Power	30.4 dBm	Auto Mar
1.0	0974 MHz			FreqOffse
Transmit Freq Error	-202 Hz	% of OBW Power	99.00 %	0 H
x dB Bandwidth	1.237 MHz	x dB	-26.00 dB	
-			STATUS	

# Band2\_1\_4MHz\_16QAM\_6\_0\_Main\_MidCH18900-1880



# Band2\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH19193-1909.3

AL.	M NG K			A MILL DWY		ADDATE		Har 11, 2020	- 16.0
Center Fri	eq 1.909300000 0	GH2	Center Freq 1.909300000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				Radio Std Radio Dev		Frequency
to dB/div	Ref Offset 14.4 dB Ref 30.00 dBm	-	_			_		1	
10 R		1-		-	m				Center Freq 1.909300000 GHz
		1	_						
101				1			-		
60 Å			-	1			-		
Center 1.9 #Res BW			#V	BW 91 k	Hz			an 3 MHz p   3.2 ms	CF Step 300.000 kHz
Occup	ied Bandwidth			Total F	ower	30.	2 dBm		Auto Man
	1.0	983 MI	Iz						Freq Offset
Transm	it Freq Error	-1.469	KHZ	% of O	BW Pow	er 9	9.00 %		0 Hz
x dB Ba	andwidth	1.241 N	IHZ	x dB		-26	.00 dB		
ec.							A		

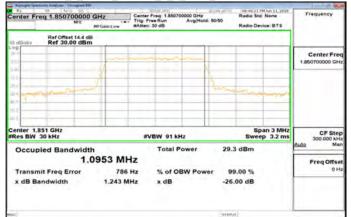
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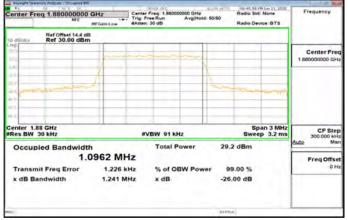
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# Band2\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH18607-1850.7





# Band2\_1\_4MHz\_64QAM\_6\_0\_Main\_MidCH18900-1880

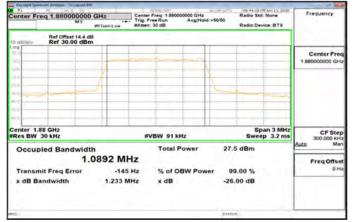
# Band2\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH19193-1909.3

Center Fre	q 1.909300000	Tri	Center Freq: 1.909300000 GHz Rad Trig: Free Run Avg/Hold: 50/50				None Nice: BTS	Frequency
0 aB/div	Ref Offset 14 4 dB Ref 30.00 dBm				_		1.1	
1010 1010		-		-				Center Freq 1.909300000 GHz
					1_			
01								
enter 1.9 Res BW 3			#VBW 911	HZ			pan 3 MHz ep 3.2 ms	CF Step 300 000 kH
Occupi	ied Bandwidth	943 MHz	Total	Power	29.	2 dBm		Auto Mar Freg Offset
Transmi x dB Ba	it Freq Error ndwidth	845 Hz 1.250 MHz	% of 0 x dB	BW Pow		9.00 % .00 dB		OH
					3757		2.13	

### Band2\_1\_4MHz\_256QAM\_6\_0\_Main\_LowCH18607-1850.7

Keyught Spattrum Anarpan - Coulgood Bill						2 10
Center Freq 1.850700000 0	Trio	Freq 1 850700000 GH Free Run AvgH n: 30 dB	ia lold: \$0/50	Radio Std		Frequency
10 diludiv Ref Offset 14.4 dB Ref 30.00 dBm	1a-					
100 0.00		+				Center Fred 1 850700000 GH
0A 278			L	han		
Center 1.851 GHz IRes BW 30 kHz		WBW 91 KHz	11		an 3 MHz p 3.2 ms	CF Step 300.000 kH
Occupied Bandwidth		Total Power	27	4 dBm		Auto Mar
1.0	871 MHz					FreqOffse
Transmit Freq Error	862 Hz	% of OBW Po	wer 9	9.00 %		.0 H0
x dB Bandwidth	1.229 MHz	x dB	-26	5.00 dB		
ata I			htar	April 1		

#### Band2\_1\_4MHz\_256QAM\_6\_0\_Main\_MidCH18900-1880



# Band2\_1\_4MHz\_256QAM\_6\_0\_Main\_HighCH19193-1909.3

Caynet Hawk	nats Anamar - Oncapat EW			197		ADDATE		MARCEN 2528	
Center Fre	ng 1.909300000	GHz	Center Fr Trig: Free	Center Freq 1.909300000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
to dBidiv	Ref Offset 14.4 dB Ref 30.00 dBm	2		-					
10/2		-					-		Center Freq 1.909300000 GHz
10 Å		/				1	1		
101						-	1		
Center 1.9	00.042						-		
Res BW			#VB	W 91 kl	Hz		Swee	an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occup	ied Bandwidth			Total P	ower	27.	1 dBm		Auto Man
	1.0	887 MH	IZ						Freq Offset
	it Freq Error Indwidth	128 1.232 M		% of O x dB	BW Pow		9,00 % .00 dB		0 Ha
ec.						1,244,0	a		

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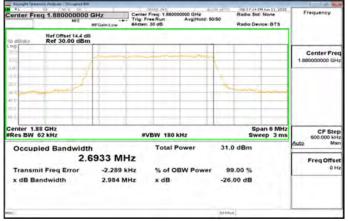
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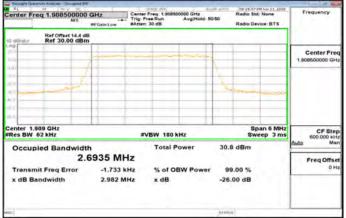
# Band2\_3MHz\_QPSK\_15\_0\_Main\_LowCH18615-1851.5

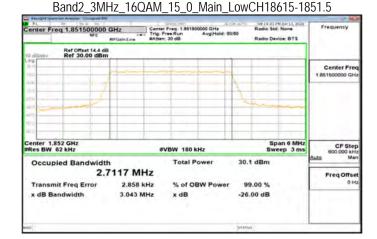




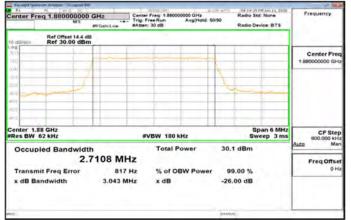
# Band2\_3MHz\_QPSK\_15\_0\_Main\_MidCH18900-1880

# Band2\_3MHz\_QPSK\_15\_0\_Main\_HighCH19185-1908.5





# Band2\_3MHz\_16QAM\_15\_0\_Main\_MidCH18900-1880



### Band2\_3MHz\_16QAM\_15\_0\_Main\_HighCH19185-1908.5

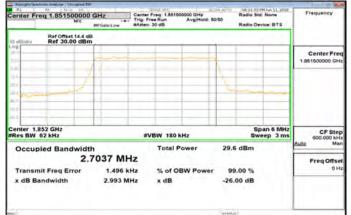
RL .	enter Freg 1.900500000 GHz Control Freg 1.90050000 OHc Ratio Ster None Martin Freg 1.900500000 GHz Control Freg 1.900500000 OHc Ratio Ster None Martin Freg 1.90050000 OHc Ratio Ster None							
	Ref Offset 14.4 dB	#FGainLow	#Atten: 30 dB			Radio Dev	ice: BTS	1000
VID/08/01	Ref 30.00 dBm							
10.0					-			Center Free 1.908500000 GH
1.01			-			-		
4	1.1		-		12	1		
	-				1		-	
100								
10.1						1		
	1		1	1	11	f		
Center 1.9 #Res BW 6			TVBW 1	80 kHz			ep 3 ms	CF Step 600.000 kHz
Occupi	ed Bandwidth	1	Tot	al Power	30.0	0 dBm		Auto Mar
		097 MH	z					FreqOffset
Transmi	it Freq Error	-1.725 k	Hz % 0	OBW Pow	er 9	9.00 %		0 Hz
	ndwidth	3.033 M				00 dB		
er.								

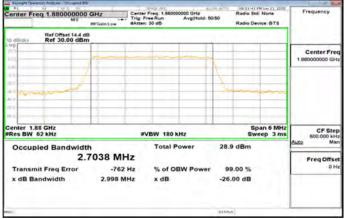
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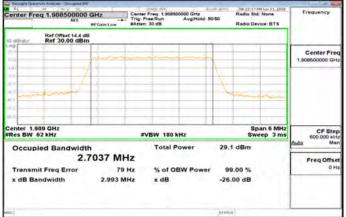
# Band2\_3MHz\_64QAM\_15\_0\_Main\_LowCH18615-1851.5



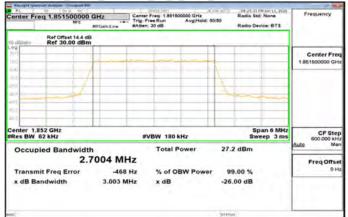


# Band2\_3MHz\_64QAM\_15\_0\_Main\_MidCH18900-1880

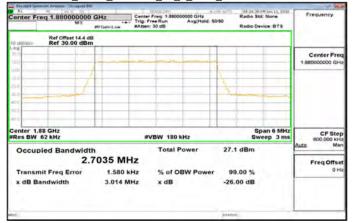
# Band2\_3MHz\_64QAM\_15\_0\_Main\_HighCH19185-1908.5



#### Band2\_3MHz\_256QAM\_15\_0\_Main\_LowCH18615-1851.5



# Band2\_3MHz\_256QAM\_15\_0\_Main\_MidCH18900-1880



# Band2\_3MHz\_256QAM\_15\_0\_Main\_HighCH19185-1908.5

AL	M MR PC	Longer L		AND DESCRIPTION		A 100		M.5rt 11, 2528	Frequency
Center Fre	eq 1.90850000	#FGainLog	Trig: Free	Center Freq 1.908500000 GHz Trig: Free Run Avg/Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		requirey
10 dB/div	Ref Offset 14.4 c Ref 30.00 dB								
1007 1000		-	àn				-		Center Free 1.908500000 GH
-		7							
401			-						
Center 1.9	909 GHz						Sp	an 6 MHz	
Res BW			#VB	W 180	Hz			eep 3 ms	CF Step 600,000 kHo
Occup	ied Bandwid	th		Total P	ower	27.0	dBm		Auto: Man
	2	7047 MI	Iz						Freq Offset
Transm	it Freq Error	1.233 1	Hz	% of O	BW Power	99.	00 %		0 Hz
x dB Ba	andwidth	3.005 N	IHz	x dB		-26.0	0 dB		
ec.						Matter			

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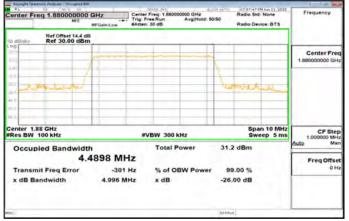
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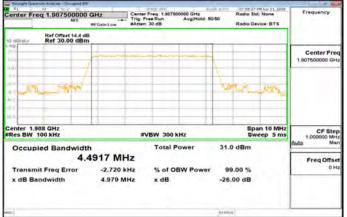
# Band2\_5MHz\_QPSK\_25\_0\_Main\_LowCH18625-1852.5



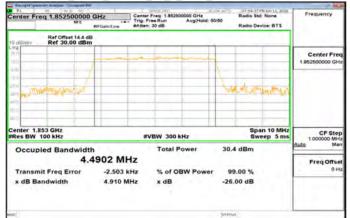


# Band2\_5MHz\_QPSK\_25\_0\_Main\_MidCH18900-1880

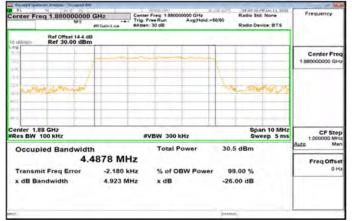
# Band2\_5MHz\_QPSK\_25\_0\_Main\_HighCH19175-1907.5



#### Band2\_5MHz\_16QAM\_25\_0\_Main\_LowCH18625-1852.5



# Band2\_5MHz\_16QAM\_25\_0\_Main\_MidCH18900-1880



#### Band2\_5MHz\_16QAM\_25\_0\_Main\_HighCH19175-1907.5

Except Sentration American - On research BW			2 23		Marc 11, 2528	
Center Freq 1.907500000	GH2	Center Freq 1.9075 Trig: Free Run #Atten: 30 dB	Frequency			
Ref Offset 14.4 dB						
100 100						Center Freq 1.907500000 GHz
manne				-		
401 60 A		-				
Center 1.908 GHz #Res BW 100 kHz		#VBW 300	kHz		n 10 MHz ep 5 ms	CF Step 1 000000 MH
Occupied Bandwidth		Total	Power	30.2 dBm	1	Auto Man
4.4	1898 MH	z				Freq Offset
Transmit Freq Error x dB Bandwidth	-3.357 ki 4.920 Mi		BW Power	99.00 % -26.00 dB		0 Hz
And .				JAARDA,		

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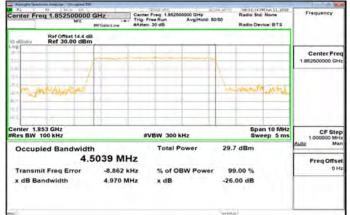
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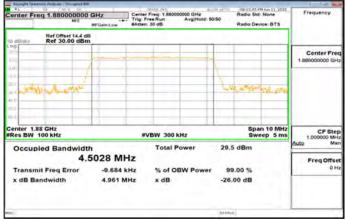
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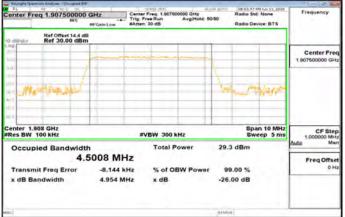
# Band2\_5MHz\_64QAM\_25\_0\_Main\_LowCH18625-1852.5





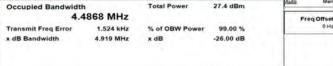
# Band2\_5MHz\_64QAM\_25\_0\_Main\_MidCH18900-1880

# Band2\_5MHz\_64QAM\_25\_0\_Main\_HighCH19175-1907.5

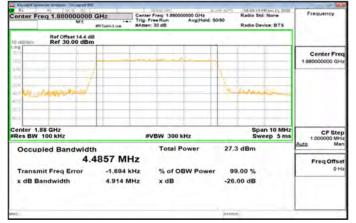


# enter Freq 1.852500000 GHz Radio Std: None NHD 000 Ref Offset 14.4 c Ref 30.00 dB Center Fre Center 1.853 GHz Res BW 100 kHz Span 10 MHz Sweep 5 ms CF Step WBW 300 KHz

Band2 5MHz 256QAM 25 0 Main LowCH18625-1852.5



# Band2\_5MHz\_256QAM\_25\_0\_Main\_MidCH18900-1880



# Band2\_5MHz\_256QAM\_25\_0\_Main\_HighCH19175-1907.5

Kaynet it have been all the second and the second s	x	-	T 410		N. Sec. 13, 2528	
Center Freq 1.907500000	GH2	Center Freq 1.90750 Trig: Free Run #Atten: 30 dB	Frequency			
Ref Offset 14.4 di Ref 30.00 dBm						
100 100 100				1		Center Freq 1.907500000 (3Ha
and and and				July m	-	
Center 1.908 GHz Res BW 100 kHz		#VBW 300 k	Hz		n 10 MHz ep 5 ms	CF Ster 1 000000 MH
Occupied Bandwidt	h	Total P	ower	27.2 dBm	1	Audio: Mar
4.	4856 MH	z				Freq Offset
Transmit Freq Error	-2.755 kł		BW Power	99.00 %		0 Hz
x dB Bandwidth	4.912 MF	Hz xdB		-26.00 dB		
ed.						

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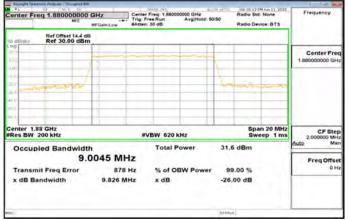
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# Band2\_10MHz\_QPSK\_50\_0\_Main\_LowCH18650-1855





# Band2\_10MHz\_QPSK\_50\_0\_Main\_MidCH18900-1880

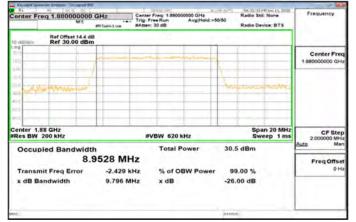
# Band2\_10MHz\_QPSK\_50\_0\_Main\_HighCH19150-1905

Center Free	q 1.905000000 G	Trig:	Center Freq. 1.90500000 GHz Trig: Free Run AvgiHold: 50:50 #Atten: 30 dB			None De: BTS	Frequency
vib/div	Ref Offset 14.4 dB Ref 30.00 dBm						
100 100							Center Freq 1.905000000 GHz
-	monte				warmentett	Sales Lin	
An P 10 I							
Center 1.90 Res BW 2			VBW 620 KH	z	Spar	20 MHz ep 1 ms	CF Step 2.000000 MHz
Occupie	ed Bandwidth	053 MHz	Total Po	wer	31.3 dBm	-	Man Man
Transmi x dB Bar	t Freq Error	2.183 kHz 9.818 MHz	% of OB x dB	W Power	99.00 % -26.00 dB		Freq Offset 0 Hz
-					1747016		

#### Band2\_10MHz\_16QAM\_50\_0\_Main\_LowCH18650-1855



# Band2\_10MHz\_16QAM\_50\_0\_Main\_MidCH18900-1880



# Band2\_10MHz\_16QAM\_50\_0\_Main\_HighCH19150-1905

Keynight Speets	nim Anamer - Orospert BW			2	ATT. (8.21.94)		
Center Fre	q 1.905000000 0	Galim Loge	Center Freq 1.9050 Trig: Free Run #Atten: 30 dB	None None rice: BTS	Frequency		
10 dB/div	Ref Offset 14.4 dB Ref 30.00 dBm			1			
100 100 100					1		Center Freq 1.906000000 GHz
	Julia			-	Lines	in	
400 400							
Center 1.9 #Res BW 2		1 1	#VBW 620	kHz		in 20 MHz eep 1 ms	CF Step 2 000000 MH0
Occupi	ied Bandwidth		Total I	Power	30.3 dBm		Auto Man
	8.9 it Freq Error ndwidth	633 MH -5.044 ki 9.810 Mi	Hz % of C	BW Power	99.00 % -26.00 dB		Freq Offset 0 Hz
Mit.					Mana.		

Member of SGS Group

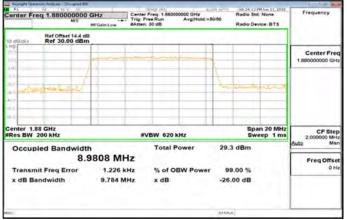
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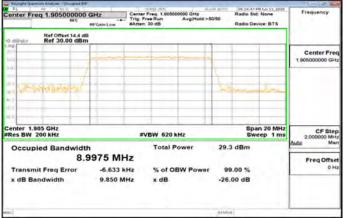
# Band2 10MHz 64QAM 50 0 Main LowCH18650-1855

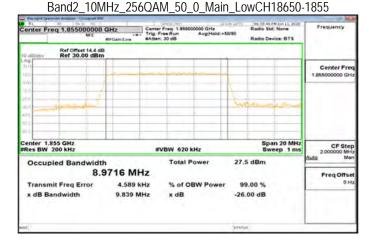




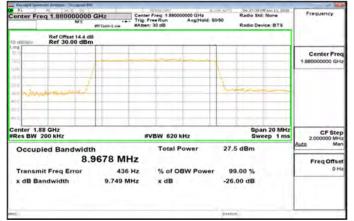
# Band2\_10MHz\_64QAM\_50\_0\_Main\_MidCH18900-1880

# Band2\_10MHz\_64QAM\_50\_0\_Main\_HighCH19150-1905





# Band2\_10MHz\_256QAM\_50\_0\_Main\_MidCH18900-1880



# Band2\_10MHz\_256QAM\_50\_0\_Main\_HighCH19150-1905

Kapagist Spectrum Anapare - Occupant BW	K					16.4
Center Freq 1.905000000	GH2	Center Freq 1.9050 Trig: Free Run #Atten: 30 dB	Frequency BTS			
Ref Offset 14.4 de Ref 30.00 dBm					1.1	-
100	-				Center F 1.905000000	
				Lalin a		
403						
Center 1.905 GHz Res BW 200 kHz	11 1	#VBW 620	kHz		20 MHz CF s p 1 ms 2.000000	MHO
Occupied Bandwidt	h	Total F	ower	27.2 dBm	Auto	Man
8.5	9543 MH	z			Freq Of	
<b>Transmit Freq Error</b>	-4.244 k	Hz % of O	BW Power	99.00 %		0 Hz
x dB Bandwidth	9.716 M	Hz xdB		-26.00 dB		
est.				344815.		-

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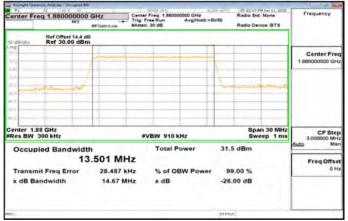
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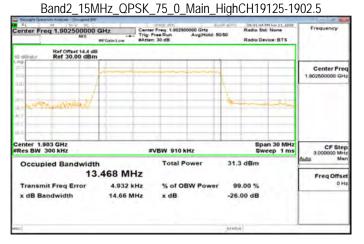


# Band2\_15MHz\_QPSK\_75\_0\_Main\_LowCH18675-1857.5

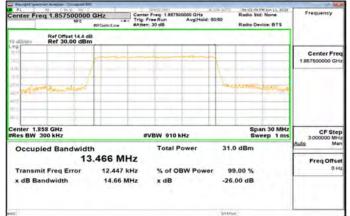
Asymptotical	from Analyter - Charge at PN		Stor INC.	2014070 105 21-11 PK No 11, 2021	1 10 00
Center Fre	eq 1.857500000	Trip:	r Freq 1.867500000 GHz FreeRun AvgiHold 50 m 30 dB	Radio Stil: None	Frequency
(0. dilivaliy	Ref Offset 14.4 de Ref 30.00 dBm				
1000		1			Center Free 1.857500000 GH
	mand			- minune	
x::= 10.1					
Center 1.8 #Res BW			VBW 910 kHz	Span 30 MHz Sweep 1 ms	CF Step 3.000000 MH
Occup	led Bandwidt		Total Power	33.2 dBm	Auto Mar
	13 hit Freq Error andwidth	.436 MHz 39.677 kHz 14.26 MHz	% of OBW Power x dB	99.00 % -26.00 dB	Freq Offse 0H
				arkey.	



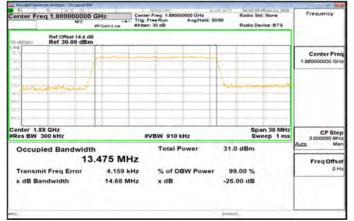
Band2\_15MHz\_QPSK\_75\_0\_Main\_MidCH18900-1880



#### Band2\_15MHz\_16QAM\_75\_0\_Main\_LowCH18675-1857.5



# Band2\_15MHz\_16QAM\_75\_0\_Main\_MidCH18900-1880



# Band2\_15MHz\_16QAM\_75\_0\_Main\_HighCH19125-1902.5

Recept Contract Annual Consent RV				- ACC	PH Art 13, 2528	-					
Center Freq 1.902500000	OTTL INT	Center Freq 1 902t Trig: Free Run #Atten: 30 dB	Frequency								
ID dBildiv Ref 30.00 dBm	Ref Offset 14.4 dB dB/dW- Ref 30.00 dBm										
(0.0) 1000						Center Freq 1.902500000 GHz					
mary ments of				Ine							
Center 1.903 GHz		+		80	an 30 MHz						
TRes BW 300 kHz		#VBW 910	kHz		veep 1 ms	CF Step 3 000000 MHz					
Occupied Bandwidth	1	Total	Power	30.5 dBm		Auto: Mar					
13	.449 MH	z				Freq Offset					
Transmit Freq Error	-9.481 kH	z % of C	BW Power	99.00 %		0 Hz					
x dB Bandwidth	14.62 MH	iz x dB		-26.00 dB							
Act.				(MARK).							

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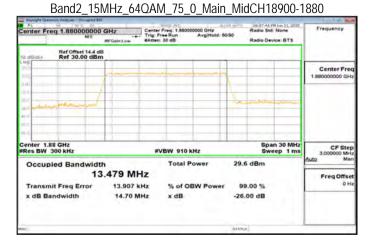
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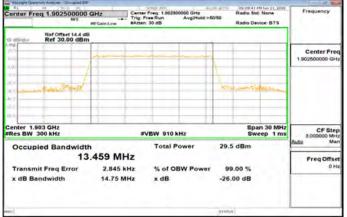
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# Band2\_15MHz\_64QAM\_75\_0\_Main\_LowCH18675-1857.5

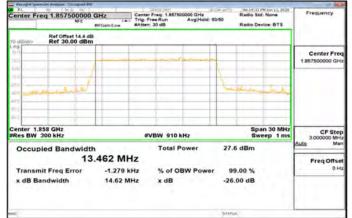




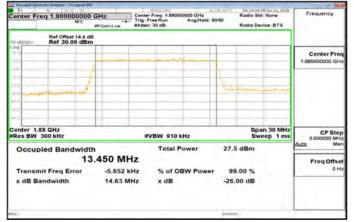
# Band2\_15MHz\_64QAM\_75\_0\_Main\_HighCH19125-1902.5



# Band2\_15MHz\_256QAM\_75\_0\_Main\_LowCH18675-1857.5



# Band2\_15MHz\_256QAM\_75\_0\_Main\_MidCH18900-1880



# Band2\_15MHz\_256QAM\_75\_0\_Main\_HighCH19125-1902.5

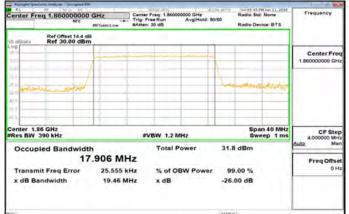
Kaynghi Speets	nam Anagare - Okyapont BW	5		ALL DOC		-		M Are 13, 2028	
	ng 1.902500000	GH2	Center F	Center Freq 1.902500000 GHz I Trig: Free Run Avg/Hold > 50/50				None vice: BTS	Frequency
10 dB/div	Ref Offset 14.4 de Ref 30.00 dBm							1	
100 100 100									Center Freq 1.902500000 GHu
	witt		_			L		1.	
				-					
Center 1.9 #Res BW 3			#V	BW 9101	kHz			an 30 MHz eep 1 ms	CF Step 3 000000 MH
Occupi	ied Bandwidt			Total P	ower	27.	3 dBm		Auto: Mar
	13 it Freq Error ndwidth	-20.164 k 14.72 M	Hz	% of O x dB	BW Power		9.00 % 00 dB		Freq Offset 0 Hz
ec.						12440			

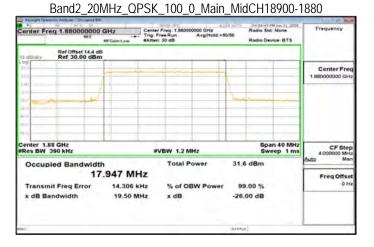
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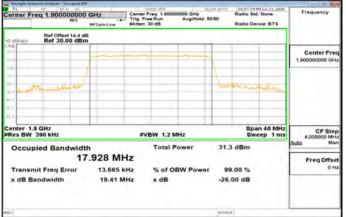
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# Band2 20MHz QPSK 100 0 Main LowCH18700-1860

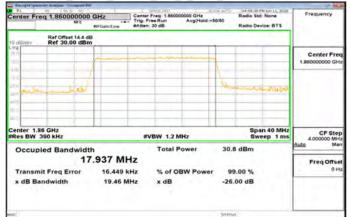




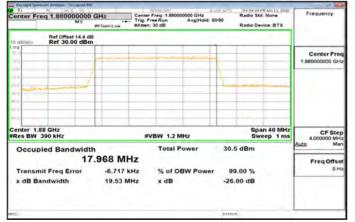
# Band2\_20MHz\_QPSK\_100\_0\_Main\_HighCH19100-1900



#### Band2\_20MHz\_16QAM\_100\_0\_Main\_LowCH18700-1860



# Band2\_20MHz\_16QAM\_100\_0\_Main\_MidCH18900-1880



# Band2\_20MHz\_16QAM\_100\_0\_Main\_HighCH19100-1900

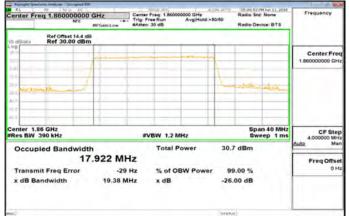
Except Development Analysis - Occupient B	W.	T GAME INT		10 ACC. 14 TH	43 WH Are 13, 2020	
Center Freq 1.900000000	MTGainLow	Center Freq 1.5 Trig: Free Run #Atten: 30 dB		Std: None Device: BTS	Frequency	
to dB/dev Ref 30.00 dBr					1.1	1.
100 100 100						Center Freq 1.900000000 GHz
herman				him	- Har	
ABY						
Center 1.9 GHz Res BW 390 kHz	11 1	#VBW 1	2 MHz		pan 40 MHz weep 1 ms	CF Step 4.000000 MH
Occupied Bandwidt			al Power	30.7 dBm	r	Audio Mar
17 Transmit Freq Error x dB Bandwidth	-5.012 k 19.48 M	Hz % o	OBW Power	99,00 % -26.00 dB		Freq Offset 0 Ha
ec.				Deams.		

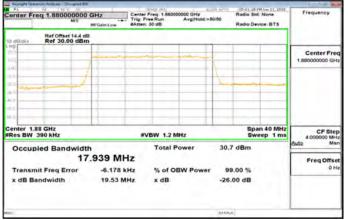
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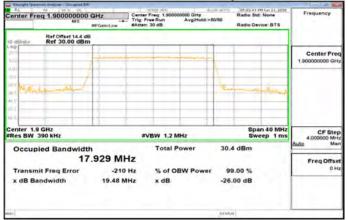
# Band2\_20MHz\_64QAM\_100\_0\_Main\_LowCH18700-1860

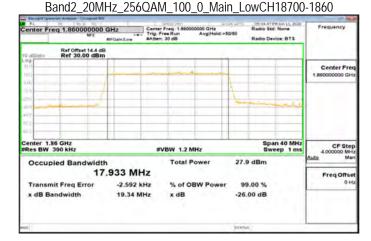




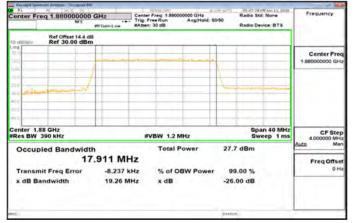
# Band2\_20MHz\_64QAM\_100\_0\_Main\_MidCH18900-1880

# Band2\_20MHz\_64QAM\_100\_0\_Main\_HighCH19100-1900





# Band2\_20MHz\_256QAM\_100\_0\_Main\_MidCH18900-1880



# Band2\_20MHz\_256QAM\_100\_0\_Main\_HighCH19100-1900

Kapagist Spectrum Anagam -Ocua	point DW.	T GEMINI INV		-	PM Set 13, 2528	
Center Freg 1.900000	0000 GHz	Center Freq 1.9 Trig: Free Run #Atten: 30 dB		Radio St		Frequency
10 dB/div Ref 30.00				-		1
1000	-					Center Freq 1.900000000 GHz
401	-					
Center 1.9 GHz #Res BW 390 kHz		#VBW 1.	2 MHz		an 40 MHz Jeep 1 ms	CF Step 4.000000 MHz
Occupied Bandy	vidth	Tota	I Power	27.6 dBm		Auto Mar
Transmit Freq Erro x dB Bandwidth	17.924 Mi -28.372 M 19.35 M	Hz % of	OBW Power	99.00 % -26.00 dB		Freq Offset 0 Hz
Mord.						

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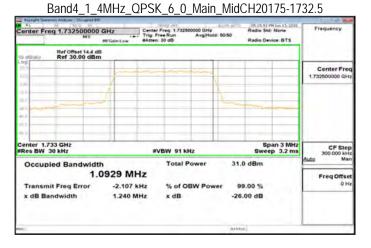
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# Band4\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH19957-1710.7

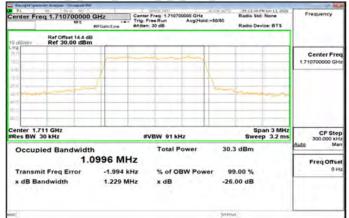




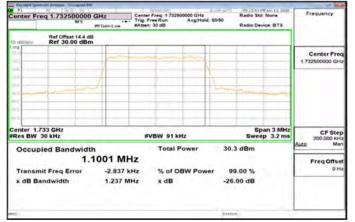
# Band4\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH20393-1754.3

Center Fre	ng 1.754300000 G	FGaintow					Radio Std. None Radio Device: BTS		Frequency
o ativativ	Ref Offset 14.4 dB Ref 30.00 dBm								
100		1-	~						Center Freq 1.754300000 GHg
0.0	min		_			1			
			-			-			
Res BW			#VBV	V 91 kł	tz	-	Sweep		CF Ste 300.000 ki
Occup	ied Bandwidth	Courses.		Total P	ower	31.	dBm		Auto Mar
	1.09	958 MH	z						Freq Offset
	it Freq Error	-2.093 kH			SW Pow		9.00 %	1	0 Ha
x dB Ba	ndwidth	1.235 MF	tz )	dB		-26.	8b 00.		
						37570			

#### Band4\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH19957-1710.7



# Band4\_1\_4MHz\_16QAM\_6\_0\_Main\_MidCH20175-1732.5



# Band4\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH20393-1754.3

Kaynight 1part	nutri Anaman - Chrosport BW		T SME		A 107 AUT	25.13.26 PM	Aug 13, 2020	M.
Center Fre	NI NI	GH2	Center Freq 1.754300000 GHz Radio Trig: Free Run Avg/Hold: 50/50					Frequency
VD dB/div	Ref Offset 14.4 dB Ref 30.00 dBm		_					
100 100		1-	-+					Center Fred 1.754300000 GH
	hand	1			Ke			
400			-			-		
Center 1.7 #Res BW			#VBW	91 kHz			n 3 MHz 3.2 ms	CF Step 300,000 kH
Occup	ied Bandwidth	001 MH		otal Power	30	.3 dBm		Auto Mar
	it Freq Error indwidth	-2.580 k 1.233 M	Hz %	of OBW P dB		9.00 % 5.00 dB		Freq Offse 0 H
66.						14,		

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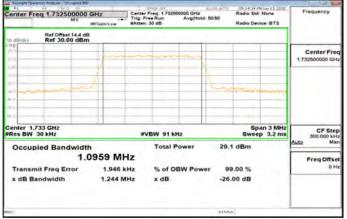
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f (886-2) 2298-0488



# Band4\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH19957-1710.7





# Band4\_1\_4MHz\_64QAM\_6\_0\_Main\_MidCH20175-1732.5

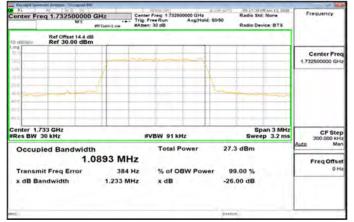
# Band4\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH20393-1754.3

Center Fre	ng 1.754300000	the Tr	Center Freq: 1.754300000 GHz Radii Trig: Free Run AvgiHold: 50/50			None None nce: BTS	Frequency
10 08/01+	Ref Offset 14.4 dB Ref 30.00 dBm			_			
2003 0.00		1		-			Center Freq 1 754300000 GHz
	-	4		-l	nim	en m	
01							
Center 1.7 Res BW			#VBW 91 kH	z		an 3 MHz p 3.2 ms	CF Step 300 000 kH
Occup	ied Bandwidth		Total Po	ower	28.8 dBm		Auto Mar
	1.0 it Freq Error indwidth	994 MHz 1.516 kHz 1.243 MHz	% of OB x dB	W Power	99.00 % -26.00 dB		Freq Offse 0 H
					875916		

# Band4\_1\_4MHz\_256QAM\_6\_0\_Main\_LowCH19957-1710.7

Ratinging (particular	Armigan (Onstand Bry	1	L SENA INTI		-	0101120		
Center Free	q 1.710700000 0	GHz	Center Freq 1.710 Trig. Free Run #Atten: 30 dB	700000 GHz AvgiHold: 60/	Radio Std	None	Frequency	
10 dillidiv	Ref Offset 14.4 dB Ref 30.00 dBm	-				1		
100-00-00-00-00-00-00-00-00-00-00-00-00-		-					Center Free 1,710700000 GH	
27.0				1	~			
409 002								
Center 1.71 Res BW 3	an 3 MHz a 3.2 ms	CF Step 300.000 kHz						
Occupie	ed Bandwidth			Power	27.3 dBm		Auto Mar	
Transmit	1.0 t Freg Error	889 MH		BW Power	99.00 %		Freq Offse	
x dB Bar	Contraction of the second s	1.231 M			-26.00 dB			
					STATUS -			

### Band4\_1\_4MHz\_256QAM\_6\_0\_Main\_MidCH20175-1732.5



# Band4\_1\_4MHz\_256QAM\_6\_0\_Main\_HighCH20393-1754.3

Kaynight Speets	Ses Anaroan - On vasual EW	-		a Mar 1997		110.00		W.Set 13, 2528	-
	q 1.754300000 G	Hz	Center Trig: Fr	Center Freq 1.754300000 GHz Trig: Free Run Avg/Hold: 50/50 #Atten: 30 dB				None	Frequency
to dBrdiv	Ref Offset 14.4 dB Ref 30.00 dBm							1	
10.0 10.0 10.0		-			-				Center Freq 1.754300000 GHz
194 498		1				ł			
401						-			
Center 1.7	54 GHz		-				Sc	an 3 MHz	
Res BW 3			11	BW 91 k	Hz			p 3.2 ms	CF Step 300.000 kHz
Occupi	ed Bandwidth			Total F	ower	27.	2 dBm		Aude Man
	1.08	384 MH	IZ						Freq Offset
Transmi x dB Bai	t Freq Error ndwidth	129 1.235 M		% of O x dB	BW Pow		9.00 % .00 dB		0 Hz
March .									

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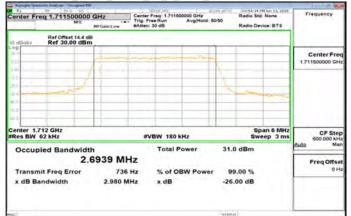
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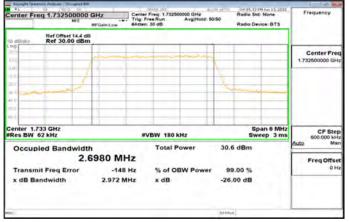
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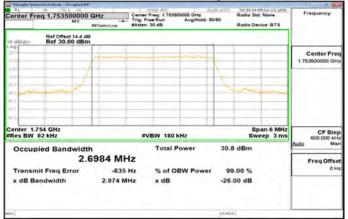
# Band4\_3MHz\_QPSK\_15\_0\_Main\_LowCH19965-1711.5





# Band4\_3MHz\_QPSK\_15\_0\_Main\_MidCH20175-1732.5

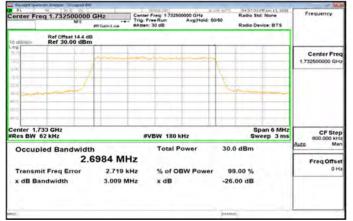
# Band4\_3MHz\_QPSK\_15\_0\_Main\_HighCH20385-1753.5



# Band4\_3MHz\_16QAM\_15\_0\_Main\_LowCH19965-1711.5



# Band4\_3MHz\_16QAM\_15\_0\_Main\_MidCH20175-1732.5



# Band4\_3MHz\_16QAM\_15\_0\_Main\_HighCH20385-1753.5

Kaynight Spart	M NO CO						04.59 (51	M her 13, 2521	
Center Fre	eq 1.753500000	GH2	Center I Trig: Fri	Center Freq 1.753500000 GHz Trig: Free Bun AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
to dBidiv	Ref Offset 14.4 dB Ref 30.00 dBm	1						1	
10-17 1.004							-		Center Free 1.753500000 GH
1 - A-				-		L			
101									
Center 1.7		-		BW 1801				an 6 MHz eep 3 ms	CF Step
	ied Bandwidth	1		Total P		30.1	dBm	eep sms	SOO,000 KH
	2.6	989 MH	łz						Freq Offse
	iit Freq Error Indwidth	2.827 k 2.999 M		% of O x dB	BW Power		00 % 0 dB		0 H
ed.									

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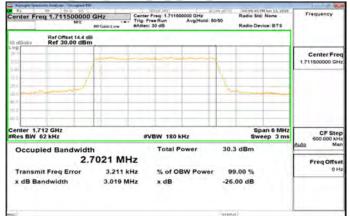
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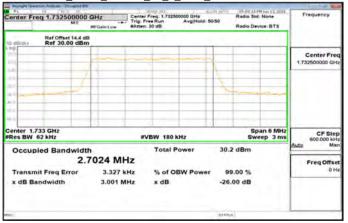
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# Band4\_3MHz\_64QAM\_15\_0\_Main\_LowCH19965-1711.5

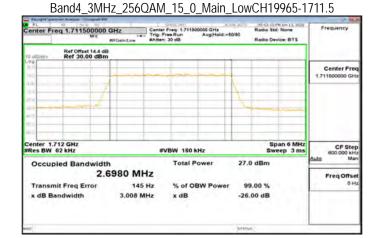




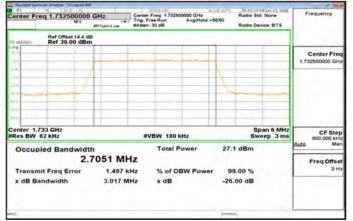
# Band4\_3MHz\_64QAM\_15\_0\_Main\_MidCH20175-1732.5

# Band4\_3MHz\_64QAM\_15\_0\_Main\_HighCH20385-1753.5

Center Fre	rq 1.753500000	Trig	Center Freq: 1.753500000 GHz R Trig: Free Run Avg/Hold: 50/50			Std: None Device: BTS	Frequency	
to allvalie	Ref Offset 14.4 dB Ref 30.00 dBm							
		france				_	Center Freq 1.753500000 GHg	
	1	1	-		V			
			-					
		-						
Res BW		1.14	WBW 180	kHz	1.1	Span 6 MHz Sweep 3 ms	CF Step 500.000 kH	
Occup	Occupied Bandwidth Total Power 30.0 dBm 2.7007 MHz							
	it Freq Error ndwidth	4.432 kHz 3.003 MHz	% of O x dB	BW Power	99.00 % -26.00 dE		Freq Offset 0 Hi	
0					375716			



# Band4\_3MHz\_256QAM\_15\_0\_Main\_MidCH20175-1732.5



# Band4\_3MHz\_256QAM\_15\_0\_Main\_HighCH20385-1753.5

Caynet Hawk	nutry American - Olivagent I	W.	T. Same I		Allerat		W.Set 13, 2528	
Center Fre	ng 1.75350000	0 GHz #FGainLow	Center Freq 1.753500000 GHz			Radio Std Radio Der	: None	Frequency
VID dB/div	Ref Offset 14.4 Ref 30.00 dB						1	
10-0 10-0 10-0					-	1		Center Fred 1.753500000 GH
		<u>a</u>			X	1		
101						T		
Center 1.7	AL CHY	-	1	1		- Per	an 6 MHz	
TRes BW			#VBW	180 KHz			eep 3 ms	CF Step 600,000 kH
Occup	ied Bandwid	th	То	tal Power	27	.0 dBm		Auto: Man
	2	.6983 MH	Iz					Freq Offset
Transm	it Freq Error	-2.172 k	Hz %	of OBW Po	wer	99.00 %		0 Ha
x dB Ba	indwidth	3.006 M	Hz x c	18	-2	6.00 dB		
And .					1040	85,		

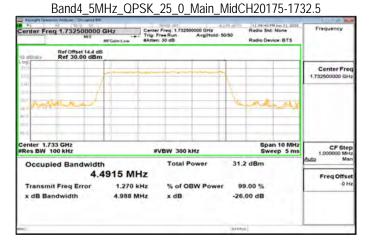
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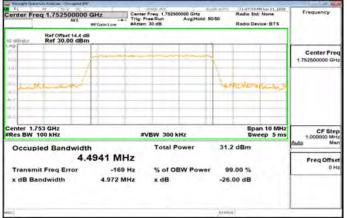
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# Band4\_5MHz\_QPSK\_25\_0\_Main\_LowCH19975-1712.5

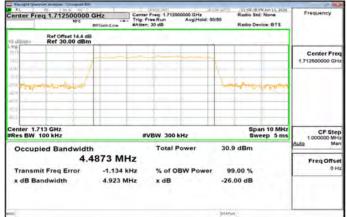




# Band4\_5MHz\_QPSK\_25\_0\_Main\_HighCH20375-1752.5



#### Band4\_5MHz\_16QAM\_25\_0\_Main\_LowCH19975-1712.5



# Band4\_5MHz\_16QAM\_25\_0\_Main\_MidCH20175-1732.5



#### Band4\_5MHz\_16QAM\_25\_0\_Main\_HighCH20375-1752.5

Keynghit Speetruits das	anner Orwanat EW			Anise America	~ ~ ~	-		Abril 11, 2528	
Center Freq 1.	752500000 0	Hz FGainLon	Center Freq 1.752500000 GHz Radio Std: None Trig: FreeRun Avg/Hold: 50/50 #Atten: 30 dB Radio Device: BTS						Frequency
to dendiv. Re	f Offset 14.4 dB		-					1.1	
100 100 100			-	-		Ì			Center Freq 1 752500000 GHz
in dial	mantal					La	-	Prophe	
400 0 0									
Center 1.753 G Res BW 100 k			#VB	W 300 M	KHZ			n 10 MHz ep 5 ms	CF Step 1 000000 MHz
Occupied	Bandwidth			Total P	ower	30.5	dBm		Auto: Man
Transmit Fr x dB Bandw	eq Error	874 MH -976 I 4.920 MI	Hz	% of O x dB	BW Power	99.0 -26.0	00 % 0 dB		Freq Offset 0 Hz
wheel -						()A480-5,			

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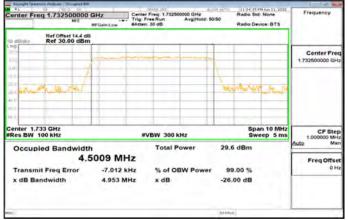
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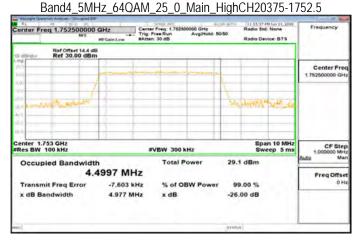


# Band4\_5MHz\_64QAM\_25\_0\_Main\_LowCH19975-1712.5





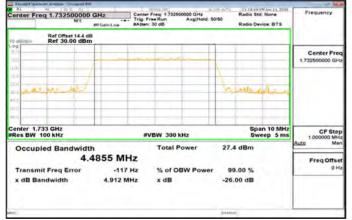
Band4\_5MHz\_64QAM\_25\_0\_Main\_MidCH20175-1732.5



#### Radio Std: None enter Freq 1.712500000 GHz Aug Hold: 60/50 Ref Offset 14.4 c Center Fre 10 145 a project of Center 1.713 GHz Span 10 MHz Sweep 5 ms CF Step VBW 300 kHz Total Power 27.5 dBm **Occupied Bandwidth** 4.4871 MHz Freq Offse OH Transmit Freq Error -516 Hz % of OBW Poy 99.00 % dB Bandwidth 4.922 MHz x dB -26.00 dB

Band4 5MHz 256QAM 25 0 Main LowCH19975-1712.5

# Band4\_5MHz\_256QAM\_25\_0\_Main\_MidCH20175-1732.5



# Band4\_5MHz\_256QAM\_25\_0\_Main\_HighCH20375-1752.5

Keyneght Speetruits Anarysen - On vapant #W		T CRAME INV			PM Jon 13, 2020	
Center Freq 1.752500000	GHz #FGainLos	Center Freq 1.75250 Trig: Free Run #Atten: 30 dB		Radio St		Frequency
Ref Offset 14.4 de Ref 30.00 dBm					1	
1000 1000				Ì		Center Freq 1.752500000 GHz
James June				Wie -	maile	
Center 1.753 GHz #Res BW 100 kHz		#VBW 300 1	tHz		an 10 MHz veep 5 ms	CF Step 1.000000 MH
Occupied Bandwidt		Total P	ower	27.4 dBm		Audo Man
4.4 Transmit Freq Error x dB Bandwidth	4868 MH 384 1 4.917 M	Hz % of OI	BW Power	99.00 % -26.00 dB		Freq Offset 0 Hz
80				3488A		

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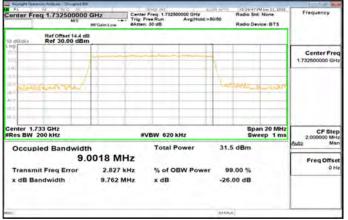
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# Band4\_10MHz\_QPSK\_50\_0\_Main\_LowCH20000-1715



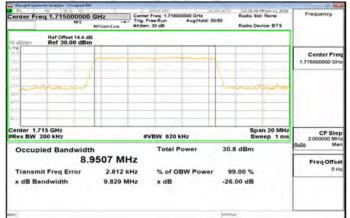


# Band4\_10MHz\_QPSK\_50\_0\_Main\_MidCH20175-1732.5

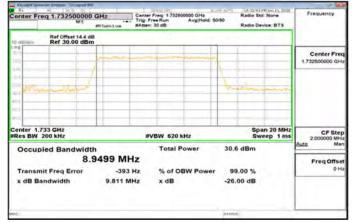
# Band4\_10MHz\_QPSK\_50\_0\_Main\_HighCH20350-1750

Center Fre	ng 1.75000000		Center Freq: 1.75 Trig: Free Run #Atten: 30 dB		50/50	Frequency	
vibility	Ref Offset 14.4 d Ref 30.00 dBi						
		pinner					Center Free 1.750000000 GH
80.5					K	1 million	
#5 #07							
10 I R4 4							
Res BW			#VBW 62	KHZ		Span 20 Mi Sweep 1 n	15 2.000000 MH
Occup	ied Bandwid	th 0072 MH	Total	Auto Mar			
Transmit Freq Error 588		589 H 9.759 MH	Hz % of OBW Power			9.00 % .00 dB	Freq Offse 0H
					8759	10	

#### Band4\_10MHz\_16QAM\_50\_0\_Main\_LowCH20000-1715



# Band4\_10MHz\_16QAM\_50\_0\_Main\_MidCH20175-1732.5



# Band4\_10MHz\_16QAM\_50\_0\_Main\_HighCH20350-1750

Exyspirit I part	nam Anarose -Oncapient BW			Anna 1997.		A AUTO		PM Aur. 13, 2528			
Center Fre	ng 1.750000000	GH2	Center Freq 1.750000000 GHz			Radio Std: None Radio Device: BTS		Frequency			
to dBidiv	Ref Offset 14.4 dB Ref 30.00 dBm	_									
10.0				-					Center Fred 1.750000000 GH		
	und	2				7		mo			
A07 A07 A03											
Center 1.7 #Res BW			#VI	BW 6201	kHz			eep 1 ms	CF Step		
Occup	ied Bandwidth			Total P	ower	30.6	5 dBm		Auto Man		
	8.9 it Freq Error indwidth	-1.778 k 9.790 M	Hz	% of O x dB	BW Power		9.00 % 00 dB		Freq Offset 0 Hz		
ec.						1,04404					

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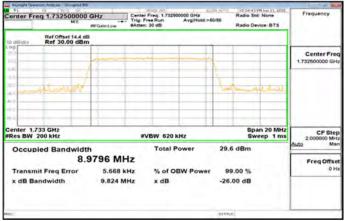
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# Band4\_10MHz\_64QAM\_50\_0\_Main\_LowCH20000-1715

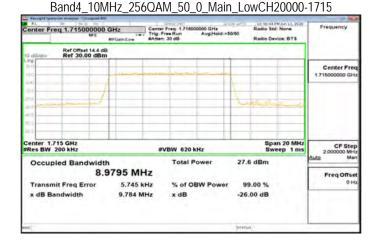
Center Fre	ng 1.715000000	Trip	Free Run AvgiHold 50 m 30 dB	Radio Device: BTS	Frequency
(0. dilivativ	Ref Offset 14.4 dB Ref 30.00 dBm				
1000 0.00					Center Fred 1.715000000 GH
2010 2011	mun part			Linner	
40.0 40.0					
Center 1.7 #Res BW 2			WBW 620 kHz	Span 20 MHz Sweep 1 ms	CF Step 2.000000 MH
Occupi	led Bandwidth		Total Power	29.4 dBm	Auto Mar
	8.9	9785 MHz			FreqOffse
	it Freq Error	-257 Hz	% of OBW Power		OH
x dB Ba	ndwidth	9.830 MHz	x dB	-26.00 dB	
				ankflut	



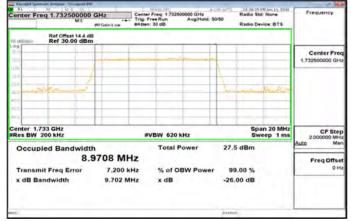
# Band4\_10MHz\_64QAM\_50\_0\_Main\_MidCH20175-1732.5

# Band4\_10MHz\_64QAM\_50\_0\_Main\_HighCH20350-1750

# #L	nq 1.750000000		Center Freq: 1.750 Trig: Free Run #Atten: 30 dB	AugiHold: 501	Radio Devi Radio Devi	None	Frequency
(0 dB/div	Ref Offset 14.4 dB Ref 30.00 dBm	9					
10:0 10:0 0:00							Center Free 1 750000000 GH
20.5	m		-		Liemin	Red and	
61 61			_				
enter 1.7 Res BW			#VBW 620	kHz	Spar	ep 1 ms	CF Ster 2.000000 MH
Occup	ied Bandwidth 8.9	994 MH		Power	29.2 dBm	4	Freq Offse
	it Freq Error indwidth	8.155 kH 9.839 MH	tz % of C	DBW Power	99.00 % -26.00 dB		OH
0					874946		



# Band4\_10MHz\_256QAM\_50\_0\_Main\_MidCH20175-1732.5



# Band4\_10MHz\_256QAM\_50\_0\_Main\_HighCH20350-1750

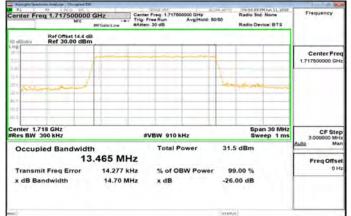
Center Fre	eq 1.750000000	Trig	er Freq 1.75000 Free Run m: 30 dB	Avg Hold: 50	Radio 50	Stal: None Device: DTS	Frequency
10 dBAdiv	Ref Offset 14.4 dB Ref 30.00 dBm					1.1	1.
100 100 100					1		Center Freq 1.750000000 GHz
	light		1		Lilin	-	
307							
Center 1.7			WBW 620 k	Hz		pan 20 MHz weep 1 ms	CF Step
Occup	ied Bandwidth	1	Total P	ower	27.7 dBm	-	Auto Man
	it Freq Error	6.333 kHz		BW Power	99.00 %		Freq Offset 0 Hz
x dB Ba	indwidth	9.713 MHz	x dB		-26.00 dB		
-					Analysis.		

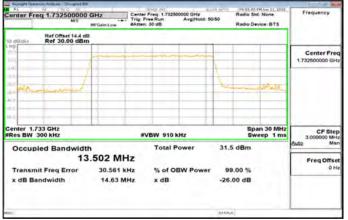
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# Band4\_15MHz\_QPSK\_75\_0\_Main\_LowCH20025-1717.5





# Band4\_15MHz\_QPSK\_75\_0\_Main\_MidCH20175-1732.5

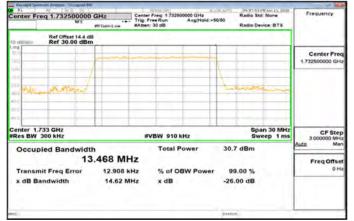
# Band4\_15MHz\_QPSK\_75\_0\_Main\_HighCH20325-1747.5

Center Fre	ng 1.747500000	-te- Tri	ter Freq 1.7476 Free Run ten: 30 dB	AvgiHold: 50	150 State	Radio Str	None None Vice: BTS	Frequency
0 aBidiy	Ref Offset 14.4 di Ref 30.00 dBn							
1010 1010								Center Freq 1.747500000 GHg
-					Y	- an	Mini	
01								
Center 1.7			#VBW 910	kHz			an 30 MHz eep 1 ms	CF Step
Occup	ied Bandwidt	h 8.477 MHz	Total	Power	31.5	dBm		Auto Mar
	it Freq Error indwidth	25.487 kHz 14.74 MHz	% of C x dB	BW Power		00 dB		Freq Offset 0 Ha
					BEARD			

#### Band4\_15MHz\_16QAM\_75\_0\_Main\_LowCH20025-1717.5



# Band4\_15MHz\_16QAM\_75\_0\_Main\_MidCH20175-1732.5



# Band4\_15MHz\_16QAM\_75\_0\_Main\_HighCH20325-1747.5

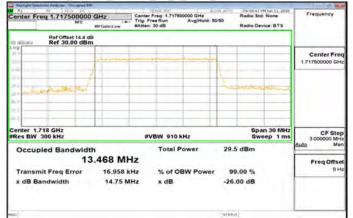
A	M NIG OC					ANTO .		MAH 11, 2028	- 16.0
Center Fre	eq 1.747500000	GHz #VGdimLow	Center F Trig: Fre #Atten: 1	7eq 1.7475 e Run 30 dB	Avg Hold>5	6/50	Radio Std		Frequency
10 dBrdiv	Ref Offset 14.4 dB Ref 30.00 dBm							1	
10.9									Center Freq 1.747500000 GHz
	Aread					1		nen	
40.5				-					
Center 1.7			#VI	BW 9101	KHZ	-		n 30 MHz eep 1 ms	CF Step
Occup	led Bandwidth			Total P	ower	31.0	) dBm		Audo: Man
	13 hit Freq Error andwidth	.466 MH 6.041 k 14.63 M	Hz	% of O x dB	BW Power	1.00	00 dB		Freq Offset 0 Hz
						( Annual of the second s			

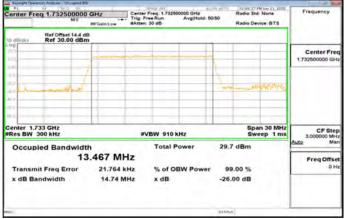
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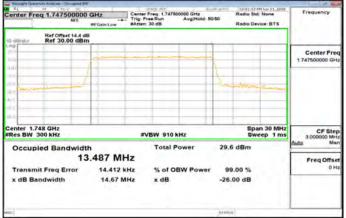
# Band4\_15MHz\_64QAM\_75\_0\_Main\_LowCH20025-1717.5



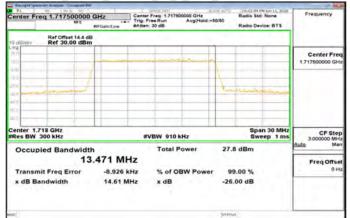


# Band4\_15MHz\_64QAM\_75\_0\_Main\_MidCH20175-1732.5

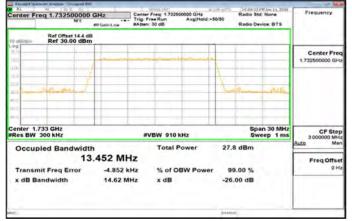
# Band4\_15MHz\_64QAM\_75\_0\_Main\_HighCH20325-1747.5



#### Band4\_15MHz\_256QAM\_75\_0\_Main\_LowCH20025-1717.5



# Band4\_15MHz\_256QAM\_75\_0\_Main\_MidCH20175-1732.5



# Band4\_15MHz\_256QAM\_75\_0\_Main\_HighCH20325-1747.5

Kayaget Spantralty Anagore - Oncopy	et EW.				
Center Freq 1.7475000		Center Freq 1.74760 Trig: Free Bun #Atten: 30 dB	AvgiHeld: 50/50	Radio Std: None Radio Device: BTS	Frequency
10 dBAdiv Ref 30.00 d					
(0.9 10.0	-		my		Center Freq 1.747500000 GHz
	1				
					~
Center 1.748 GHz		1		Span 30 Mi	
Res BW 300 kHz		#VBW 910 H	(Hz	Sweep 1 n	15 3.000000 MHz
Occupied Bandw	idth	Total P	ower 27	7.7 dBm	Auto: Man
	13.448 MH	Iz			Freq Offset
Transmit Freq Error	-3.632 k	Hz % of OI	BW Power	99.00 %	0 Hz
x dB Bandwidth	14.58 M	Hz xdB	-2	6.00 dB	
wheel.			100	84,	-

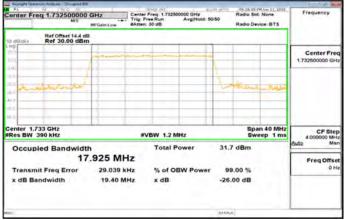
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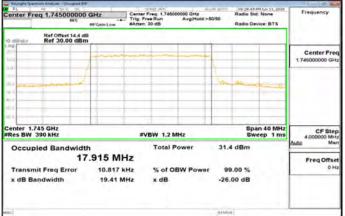
# Band4 20MHz QPSK 100 0 Main LowCH20050-1720

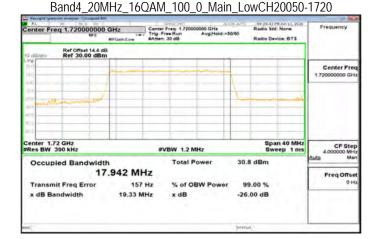
AL 1	70° ) 54°G DC .	0111	enter Freg. 1.7200		1.400 DP4243	A PH Non 11, 2020	Frequency
Center Fre	nq 1.720000000 N°t	The T	rig: Free Run Atten: 30 dB	AvgiHold 50	50	levice BTS	2.17
(O. dElvaliv	Ref Offset 14.4 dB Ref 30.00 dBm						
1000- 0.00		1					Center Free 1.720000000 GH
20 F					Lin	Marine	
An II 10 II 10 II							
Center 1.7 Res BW			#VBW 1.2 M	NHz	5	oan 40 MHz weep 1 ms	CF Ste
Occup	led Bandwidth		Total F	Power	31.6 dBm		Auto Mar
	it Freq Error Indwidth	.944 MHz 26.467 kHz 19.44 MHz	% of O	BW Power	99.00 % -26.00 dB		Freq Offse 0 H
					aran.		



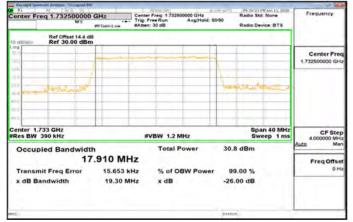
# Band4\_20MHz\_QPSK\_100\_0\_Main\_MidCH20175-1732.5

# Band4\_20MHz\_QPSK\_100\_0\_Main\_HighCH20300-1745





# Band4\_20MHz\_16QAM\_100\_0\_Main\_MidCH20175-1732.5



# Band4\_20MHz\_16QAM\_100\_0\_Main\_HighCH20300-1745

August Stars	than Anatom - Okyapent BW			GLADIE JAYL		-	.09.31-29.8	Marc 11, 2028	16
Center Fri	eq 1.745000000	GHz MFGalmLow	Center Trig: F	Freq 1.7450 ree Run 30 dB	AvgiHold: 50	0/50	Radio Std		Frequency
to dBidiv	Ref Offset 14.4 dE Ref 30.00 dBm							1	
100 100				-					Center Freq 1.745000000 GHz
	Jan 1		_	1		h	-	au la	
304 429 601							-		
Center 1.7				/BW 1.2 M				n 40 MHz rep 1 ms	CF Step
	led Bandwidt	1		Total F		30.7	7 dBm	eep 1 ms	4,000000 MHG
	17	.902 MH	łz						Freq Offset
	hit Freq Error andwidth	681 19.34 M		% of O x dB	BW Power		00 dB		0 Hz
ec.						Date			

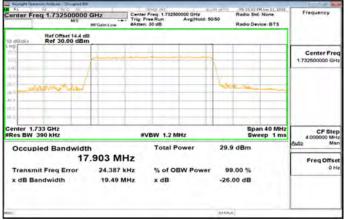
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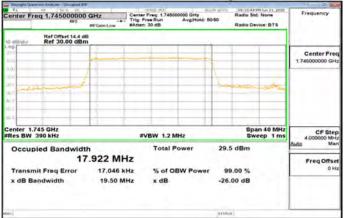
# Band4\_20MHz\_64QAM\_100\_0\_Main\_LowCH20050-1720



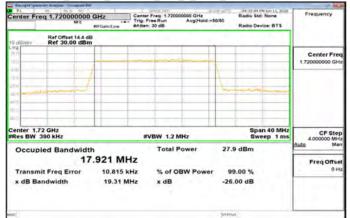


# Band4\_20MHz\_64QAM\_100\_0\_Main\_MidCH20175-1732.5

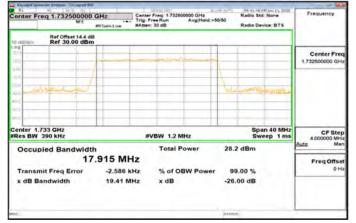
# Band4\_20MHz\_64QAM\_100\_0\_Main\_HighCH20300-1745



### Band4\_20MHz\_256QAM\_100\_0\_Main\_LowCH20050-1720



# Band4\_20MHz\_256QAM\_100\_0\_Main\_MidCH20175-1732.5



# Band4\_20MHz\_256QAM\_100\_0\_Main\_HighCH20300-1745

Caynegit I Spart	train Anarone -Occupient BW			. 197		A Arro	-	H.S. 13, 2528	
Center Fre	eq 1.745000000 G	Hz TGainLon	Center Fre	q 1.74500 Run	Avg Hold: 50		Radio Std	None	Frequency
10 dB/div	Ref Offset 14.4 dB Ref 30.00 dBm							1	
100 100			-						Center Freq 1.745000000 GHz
	minut					Ŀ	a laine	- Ali	
420									
Center 1.7 #Res BW			#VB	N 1.2 M	IHz			n 40 MHz rep 1 ms	CF Step
Occup	ied Bandwidth			Total P	ower	27.8	8 dBm		Auto Man
	it Freq Error	913 MH -7.535 k	Hz	1.0.1	BW Power		9.00 %		Freq Offset 0 Hz
x dB Ba	andwidth	19.27 M	HZ	x dB		-26.	00 dB		
And .						1,74,450	s		

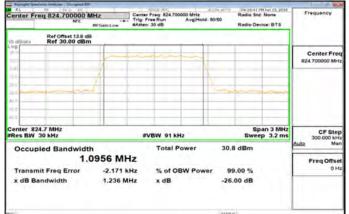
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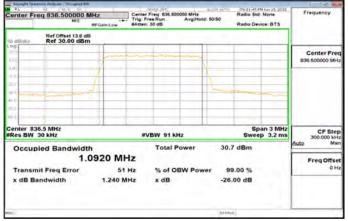
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# Band5\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH20407-824.7





# Band5\_1\_4MHz\_QPSK\_6\_0\_Main\_MidCH20525-836.5

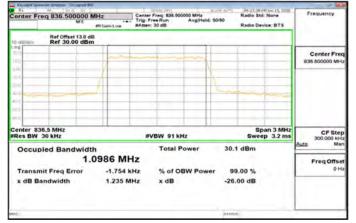
# Band5\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH20643-848.3

Center Fre	eq 848.300000 N	the Tr	nter Freq. 848.3 g: Free Run tten: 30 dB	AvgiHol	4:50/50	Radio Std. None Radio Device: BTS	Frequency
10 08/80	Ref Offset 13.8 dB Ref 30.00 dBm						
10.0 10.0							Center Free 648.300000 MHz
10 T.		A		_	L		
85 67							
10 A				-	-		
Res BW			#VBW 91	Hz		Span 3 MH Sweep 3.2 ms	300.000 kH
Occup	ied Bandwidth		Total	Power	30.	3 dBm	Auto Man
	1.0	940 MHz					Freq Offset
	hit Freq Error Andwidth	-3.018 kHz 1.236 MHz	% of C x dB	DBW Pow		9.00 % .00 dB	OH
					3747		

### Band5\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH20407-824.7

PL 1	4. 540 001		- Lak	1101 600		ALL AND		N. Soc. 18, 2528	Frequency
Center Fre	q 824.700000 M	HZ MFGeintow			AvgiHel	d: 60/60	Radio Std		requercy
10 dilutiv	Ref Offset 13.9 dB Ref 30.00 dBm			_				1	
1010 0.00		-							Center Free 824 700000 MH
(0.A)		1		-		1			
400			_	-					
60.5	land l			1					
Center 824 #Res BW 3			#V	BW 91 K	Hz			an 3 MHz p 3.2 ms	CF Step 300.000 kH
Occupi	ed Bandwidth			Total F	ower	29.0	dBm		Auto Mar
	1.0	971 MH	z						Freq Offse
Transmi	t Freq Error	-726	Hz	% of O	BW Pow	ver 95	.00 %		0 H
x dB Bar	ndwidth	1.237 M	Hz	x dB		-26,	00 dB		
ala l						STATU			

#### Band5\_1\_4MHz\_16QAM\_6\_0\_Main\_MidCH20525-836.5



# Band5\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH20643-848.3

Kanagér Sparthain Ananan Oroan	and gene	T. DRAME JET.	7 41	A AUTO	PM Ave 15, 2528	
Center Freq 848.3000	MFGalmLow	Center Freq 848.30 Trig: Free Bun #Atten: 30 dB	AvgiHold: 50	Radio Si Radio D	d: None rvice: BTS	Frequency
Ref Offset 13						
100 100	-		-			Center Freq 848 300000 MHz
	set 1		TA I			
Center 848.3 MHz Res BW 30 kHz		#VBW 91 k	Hz		pan 3 MHz ep 3.2 ms	CF Ster
Occupied Bandw	idth 1.0962 MH	Total I	Power	29.7 dBm		Audo Mar
Transmit Freq Error x dB Bandwidth		Hz % of O	BW Power	99.00 % -26.00 dB		OH
sc.				()4480A		

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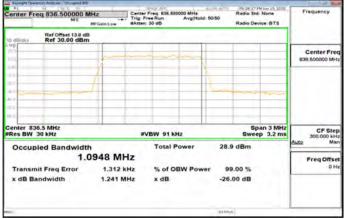
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# Band5 1 4MHz 64QAM 6 0 Main LowCH20407-824.7



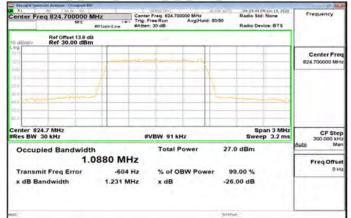


# Band5\_1\_4MHz\_64QAM\_6\_0\_Main\_MidCH20525-836.5

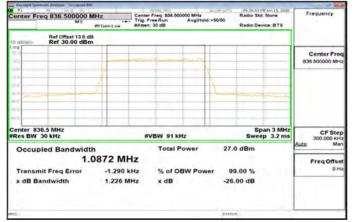
#### Band5\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH20643-848.3

Center Fre	q 848.300000 MH	Tr	inter Freq. 848.30 ig: Free Run itten: 30 dB	AvgiHold	50:50	Radio Std None Radio Device: BTS	Frequency
Vib/8b 01	Ref Offset 13.8 dB Ref 30.00 dBm						
							Center Freq 848.300000 MHz
1000					1-1	المالية. المارين	
Center 848			#VBW 91 k			Span 3 MH Sweep 3.2 m	Surp
	ed Bandwidth	and and	Total F		27.7	dBm	300.000 kHz Auto Man
	1.0	964 MHz					Freq Offset
	it Freq Error ndwidth	837 Hz 1.251 MHz		BW Powe		00 % 00 dB	0 Hz
80					BTAT/H		-

#### Band5\_1\_4MHz\_256QAM\_6\_0\_Main\_LowCH20407-824.7



# Band5\_1\_4MHz\_256QAM\_6\_0\_Main\_MidCH20525-836.5



# Band5\_1\_4MHz\_256QAM\_6\_0\_Main\_HighCH20643-848.3

Kayaget tawara	In American -Occupient BW			Mile 1971		A 102 AUT		Over 15, 2528	- Leile	111
	848.300000 MH	HZ IFGainLow	Center Freq 848.300000 MHz Trig: Free Run Avg(Hold: 50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		Frequency	'
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm					_		1		
10.0 10.0		-		-	-				Center F 848 300000	
40 A		/				1				
	the second second					20	mater	~		
Center 848.	1 Miles		_				Sou	an 3 MHz		
TRes BW 30			#V	BW 91 ki	Hz			3.2 ms	CF 5 300,000	1111
Occupie	d Bandwidth			Total P	ower	26.	8 dBm		Aute	Mar
	1.0	882 MH	Iz						FreqOf	Tset
Transmit	Freq Error	11	Hz	% of O	BW Pow	er 9	9.00 %			0 Hz
x dB Ban	dwidth	1.229 M	Hz	x dB		-26	.00 dB			
494) -						13448	s.,			-

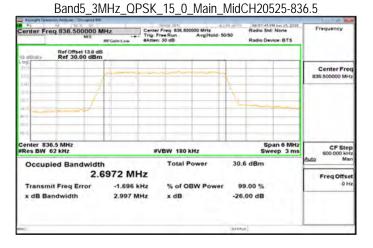
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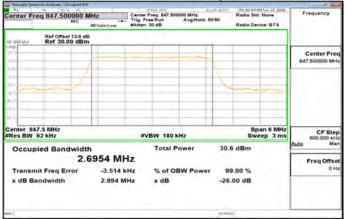
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# Band5\_3MHz\_QPSK\_15\_0\_Main\_LowCH20415-825.5

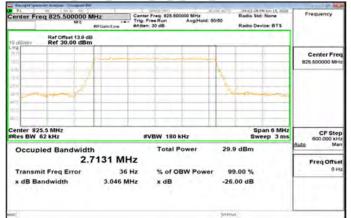




# Band5\_3MHz\_QPSK\_15\_0\_Main\_HighCH20635-847.5



#### Band5\_3MHz\_16QAM\_15\_0\_Main\_LowCH20415-825.5



# Band5\_3MHz\_16QAM\_15\_0\_Main\_MidCH20525-836.5



# Band5\_3MHz\_16QAM\_15\_0\_Main\_HighCH20635-847.5

Caysept Caretro	an Anaryser -Occupant BW						28-0x141	Witer 15, 2528		
Center Free	q 847.500000 M	HZ MGdimLow	Trig: FreeRun Avg/Hold: 80/50				Radio Str Radio De	I: None	Frequency	
Ref Offset 13.8 dB Ref 30.00 dBm										
1400					minun				Center Fre B47.500000 MH	
101 - 4	1					1				
				-						
de à	-		_	-		-	ĺ			
Center 847. Res BW 63			#V	BW 1801	KHZ			eep 3 ms	CF Ste 600,000 ki	
Occupie	ed Bandwidth			Total P	ower	29.	5 dBm		Audio Ma	
-		085 MH							Freq Offse	
x dB Ban	t Freq Error ndwidth	794 3.044 M		x dB	BW Power		9.00 % .00 dB			
ed.						Death			_	

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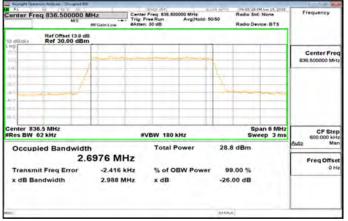
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# Band5\_3MHz\_64QAM\_15\_0\_Main\_LowCH20415-825.5





# Band5\_3MHz\_64QAM\_15\_0\_Main\_MidCH20525-836.5

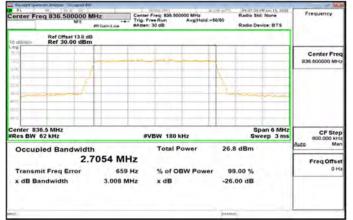
# Band5\_3MHz\_64QAM\_15\_0\_Main\_HighCH20635-847.5

enter Fre	nter Freq 847.500000 MHz NFE MFGaintow			Center Freq. 847 500000 MHz Trig: Freq. 847 500000 MHz Trig: Free Run AvgiHold: 50'50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency		
a a a a a a a a a a a a a a a a a a a		Ref 0ffset 13.8 dB Ref 30.00 dBm									
00 (71) (11)		min							Center Fred 847.500000 MHz		
0.00	1					X					
es tern	minint					1		- Alexander			
01 84	-		_		-	-					
Res BW			#VI	BW 180 P	Hz			eep 3 ms	CF Step		
Occup	ied Bandwidt	h 6964 MH	łz	Total P	ower	28.0	0 dBm		Auto Mar		
	it Freq Error ndwidth	-1.739 k 3.005 M	Hz	% of OI x dB	BW Power		9.00 % .00 dB		OH		
						37570		)			

#### Band5\_3MHz\_256QAM\_15\_0\_Main\_LowCH20415-825.5



# Band5\_3MHz\_256QAM\_15\_0\_Main\_MidCH20525-836.5



# Band5\_3MHz\_256QAM\_15\_0\_Main\_HighCH20635-847.5

Keynight Speet	truin Anamer -Occupent Bit	6		Mail 1970			-	PH Set 15, 2528	
Center Fre	eq 847.500000 M	MHZ	Center F Trig: Fre	Center Freg 847.500000 MHz				i: None vice: BTS	Frequency
VD dB/div	Ref Offset 13.9 di Ref 30.00 dBm		-					1	
100 100			-	-					Center Fred B47 500000 MHz
104 104						4	-		
422	the state								
400	1								
Center 84 #Res BW			#VI	SW 180 P	Hz			eep 3 ms	CF Step 600,000 kH
Occup	ied Bandwidt			Total P	ower	26.7	dBm		Audo Mar
	and the second sec	7048 MH							Freq Offset
	hit Freq Error Andwidth	-1.007 k 3.022 M		% of O x dB	BW Power		00 dB		0 Ha
ec.						1,04404			

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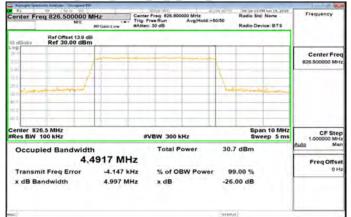
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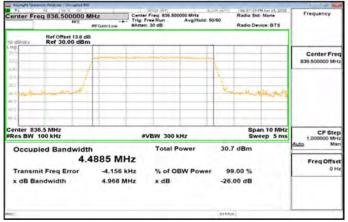
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# Band5\_5MHz\_QPSK\_25\_0\_Main\_LowCH20425-826.5

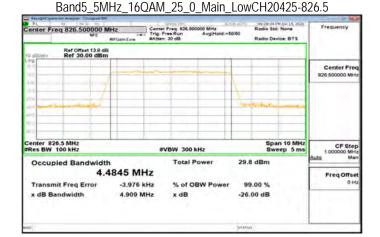




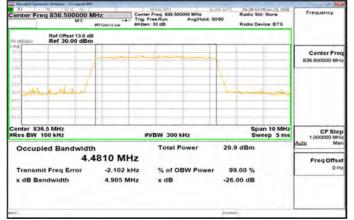
# Band5\_5MHz\_QPSK\_25\_0\_Main\_MidCH20525-836.5

# Band5\_5MHz\_QPSK\_25\_0\_Main\_HighCH20625-846.5





# Band5\_5MHz\_16QAM\_25\_0\_Main\_MidCH20525-836.5



# Band5\_5MHz\_16QAM\_25\_0\_Main\_HighCH20625-846.5

Cayneght Sparst	naits Anagoan -Occupred BW	-		CONT. SHARE		IN AUTO		M Tore 11, 2528	
	NIL NIL	HZ #FGainLos	Center Freq 845.500000 MHz Radio Std Trig: Free Run Avg/Hold: 50/50 #Atten: 30 dB Radio Dev					None	Frequency
to dBidiv	Ref Offset 13.8 dB Ref 30.00 dBm	1						1	
10/2			-						Center Freq 846 500000 MHz
300 400 401									
Center 840		-	_				Pas	n 10 MHz	
TRes BW			#VE	W 300	kHz			ep 5 ms	CF Step 1 000000 MH
Occup	ied Bandwidth			Total P	ower	29.8	dBm		Aude Man
	4.4	760 MH	z						Freq Offset
	it Freq Error indwidth	-3.874 k 4.902 M		% of O x dB	BW Power		00 % 00 dB		0 Hz
esc.						Matter			

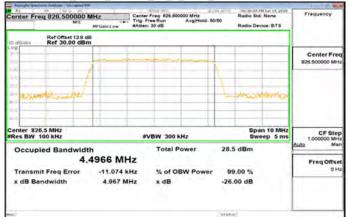
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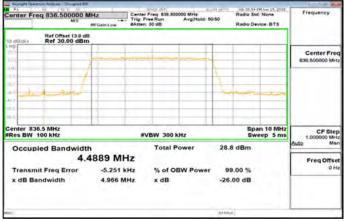
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# Band5\_5MHz\_64QAM\_25\_0\_Main\_LowCH20425-826.5



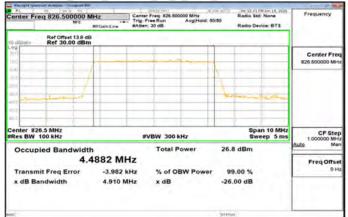


# Band5\_5MHz\_64QAM\_25\_0\_Main\_MidCH20525-836.5

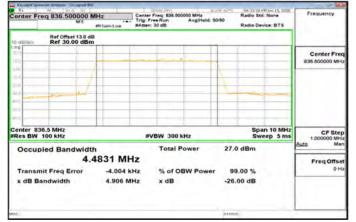
# Band5\_5MHz\_64QAM\_25\_0\_Main\_HighCH20625-846.5



#### Band5\_5MHz\_256QAM\_25\_0\_Main\_LowCH20425-826.5



# Band5\_5MHz\_256QAM\_25\_0\_Main\_MidCH20525-836.5



# Band5\_5MHz\_256QAM\_25\_0\_Main\_HighCH20625-846.5

Garaget Spantraits Anaport - Occupied En	κ	-		A ANTO	0 FM Sec 15, 2528					
Center Freq 846.500000 P	MHZ MFGsimLow	Center Freq 848.5 Trig: Free Run #Atten: 30 dB	Avg/Hold: 50	id: None levice: BTS	Frequency					
TO dBrdiv Ref 30.00 dBn	Ref Offset 13.8 dB 0 dBiddy Ref 30.00 dBm									
/0.0	-				-	Center Freq 846 500000 MHz				
				- ani-	-					
Center 846.5 MHz		+		Se	oan 10 MHz					
Res BW 100 kHz		#VBW 300	kHz		weep 5 ms	CF Step 1 000000 MHg				
Occupied Bandwidt	h	Total	Power	26.7 dBm		Audo: Man				
4.	4854 MH	z				Freq Offset				
Transmit Freq Error	-5.535 k	Hz % of (	DBW Power	99.00 %		0 Hz				
x dB Bandwidth	4.902 M	Hz x dB		-26.00 dB						
And .				3448A.						

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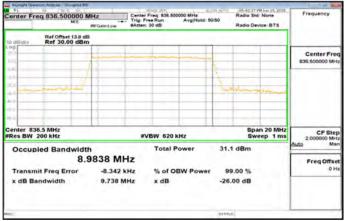
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# Band5 10MHz QPSK 50 0 Main LowCH20450-829

Center Fre	nq 829.000000 M	The T	enter Freq 829.000 Vig: Free Run Atten: 30 dB	AvgiHeld 50'50	Radio Std: None Radio Device: B	Frequency
(0. dilivaliy	Ref Offset 13.8 dB Ref 30.00 dBm					
1000						Center Free 829 000000 MHz
10 10				1		
in i						_
Center 825	MHz CF Step 1 ms 2.000000 MHz					
Occup	led Bandwidth	) 134 MHz	Total Po	ower 3	1.8 dBm	Auto Mar
	it Freq Error Indwidth	3.727 kHz 9.838 MHz	% of OE		99.00 % 6.00 dB	Freq Offse 0H
				-	(But	



# Band5\_10MHz\_QPSK\_50\_0\_Main\_MidCH20525-836.5

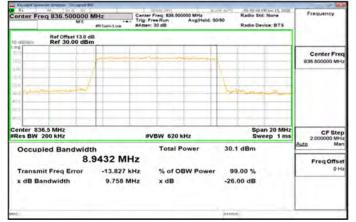
# Band5\_10MHz\_QPSK\_50\_0\_Main\_HighCH20600-844



# Band5\_10MHz\_16QAM\_50\_0\_Main\_LowCH20450-829



# Band5\_10MHz\_16QAM\_50\_0\_Main\_MidCH20525-836.5



# Band5\_10MHz\_16QAM\_50\_0\_Main\_HighCH20600-844

Keynghit Spect	truin Anagoar -Occupent Br	W.		ALL DATE		245			
Center Fre	eq 844.000000 I	MHZ	Center Free B44.000000 MHz R/ Trig: Free Run Avg/Hold: 50/50				Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBn								
1012 1002		-					_		Center Free B44.000000 MHz
- 4	-					L	-		
101	1								
60.3 60.0	-		_						
Center 84			#VI	SW 620	kHz			n 20 MHz eep 1 ms	CF Ste 2.000000 MH
Occup	ied Bandwidt			Total F	ower	30.1	dBm		Auto Mar
		9406 MH							Freq Offset
	hit Freq Error andwidth	-21.059 k 9.767 M		% of O x dB	BW Power	99. -26.0	00 % 0 dB		
ec.						1,044844			

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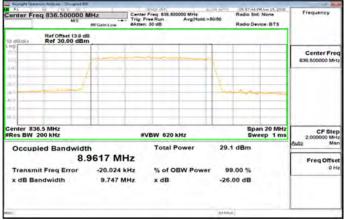
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# Band5\_10MHz\_64QAM\_50\_0\_Main\_LowCH20450-829

Center Fre	Center Freq 829.000000 MHz Par Gain Low State Freq 829.0000 MHz Ref Offset 138 dB Ref Offset 138 dB Ref Offset 138 dB Ref Offset 138 dB Ref 0.000 Bm Ref 0.000 Imm								
10. d0.div	Ref 30.00 dBm						Center Free 829 000000 MH		
De tra	mand				Lann	anan			
Center 829			10.4		Span	20 MHz	CF Ster		
Res BW 2	200 kHz led Bandwidth		#VBW 620 Total	Power	29.2 dBm	ep 1 ms	2.000000 MHz Auto Man		
	8.9 it Freq Error ndwidth	981 MH -4.973 ki 9.865 MF	iz % of 0	OBW Power	99.00 % -26.00 dB		Freq Offse 0 H		



# Band5\_10MHz\_64QAM\_50\_0\_Main\_MidCH20525-836.5

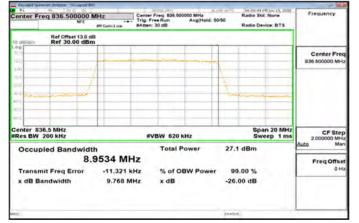
# Band5\_10MHz\_64QAM\_50\_0\_Main\_HighCH20600-844

Center Fre	rq 844.000000 M	Trig						
vibility 01	Ref Offset 13.8 di Ref 30.00 dBn	B						
100 100							Center Free 844.000000 MHz	
	1				1			
Center 844	Mar					Span 20 MHz		
Res BW			WBW 620	kHz		Sweep 1 ms	2,000000 MH	
Occupi	ied Bandwidt	h	Total P	ower	28.	1 dBm	Auto Mar	
	8.	9730 MHz					Freq Offset	
Transmi	it Freq Error	-19.067 kHz	% of O	BW Power	99	9.00 %	0 Hi	
x dB Ba	ndwidth	9.822 MHz	x dB		-26.	00 dB		
-					37574			

#### Band5\_10MHz\_256QAM\_50\_0\_Main\_LowCH20450-829



# Band5\_10MHz\_256QAM\_50\_0\_Main\_MidCH20525-836.5



# Band5\_10MHz\_256QAM\_50\_0\_Main\_HighCH20600-844

Kaunghit Speech	ain Anagoan -Okyapont BW							PH 54 15 2528	
	enter Freq 844.000000 MHz NFE #FGdimLow				Center Free B44.000000 MHz Trig Free Bun AvgiHold: 50/50 #Atten: 30 dB				Frequency
TO dBrdiv	Ref Offset 13.8 dB Ref 30.00 dBm				-			1	
1000 1000			-						Center Freq 844,000000 MHz
				_		1			
2019 2019									-
Center 844 #Res BW 2			#VB	W 620 1	Hz			an 20 MHz veep 1 ms	CF Step 2.000000 MHz
Occupi	ed Bandwidth			Total P	ower	27.3	dBm		Auto Man
Transmi x dB Bar	t Freq Error	9533 MH -13.015 ki 9.762 Mi	Hz	% of OI x dB	BW Power		9,00 % 00 dB		Freq Offset 0 Hz
Mad.						1,04484			

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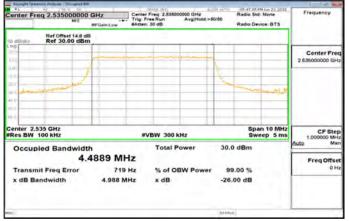
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# Band7\_5MHz\_QPSK\_25\_0\_Main\_LowCH20775-2502.5





# Band7\_5MHz\_QPSK\_25\_0\_Main\_MidCH21100-2535

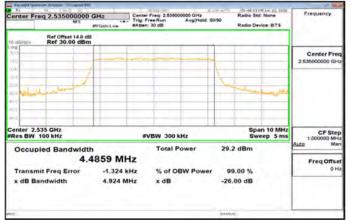
# Band7\_5MHz\_QPSK\_25\_0\_Main\_HighCH21425-2567.5



#### anter Freq 2.502500000 GHz tio Std: None DOD GHE Ref Offset 14.8 e Ref 30.00 dB Center Fre Span 10 MHz Sweep 5 ms CF Step Center 2.503 GHz Res BW 100 kHz VBW 300 kHz Total Power 29.4 dBm **Occupied Bandwidth** 4.4863 MHz Freq Offse OH Transmit Freq Error 324 Hz % of OBW Pov 99.00 % dB Bandwidth 4.932 MHz x dB -26.00 dB

Band7\_5MHz\_16QAM\_25\_0\_Main\_LowCH20775-2502.5

# Band7\_5MHz\_16QAM\_25\_0\_Main\_MidCH21100-2535



# Band7\_5MHz\_16QAM\_25\_0\_Main\_HighCH21425-2567.5

Chromost BW	1 1	C GRANE INV			49-23 FM her 23, 2678	14
enter Freq 2.567500000 GHz				dio Std: None	Frequency	
set 14.9 dB		-				
					-	Center Fred 2.567500000 GHo
1				La la	manual	
1						
1		1				
		#VBW 300	kHz		Sweep 5 ms	CF Ster 1 000000 MH
ndwidth		Total	3m	Auto Mar		
4.48	59 MHz					FreqOffse
Error			BW Power			OH
	et 149 eB et 149 eB 100 dBm et 149 eB et	S00000 GH2 ME BY Calut Con From the second	S00000 GHZ ME WTGHILLOW AVE WTGHIL	SODOOD GHZ ME WCaheLow et 148 ett od dBm we we w	SODOOD GHZ ME WTGHILLOW WTGHILLOW CHIEF Fries Thing 2 547500000 GHz Trig Fries Thing Arginted B050 Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra	SOBOOD CH2 M WCahicLow WCahicLo

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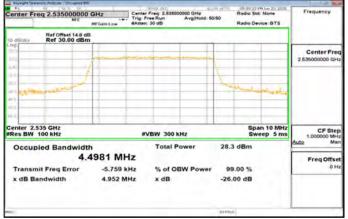
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# Band7\_5MHz\_64QAM\_25\_0\_Main\_LowCH20775-2502.5



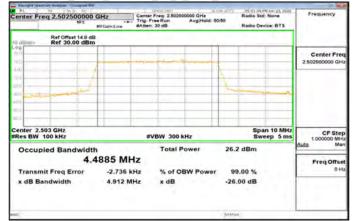


# Band7\_5MHz\_64QAM\_25\_0\_Main\_MidCH21100-2535

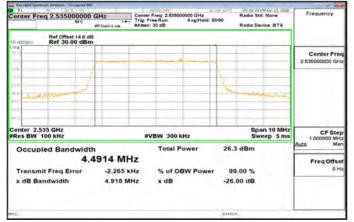
# Band7\_5MHz\_64QAM\_25\_0\_Main\_HighCH21425-2567.5



#### Band7 5MHz 256QAM 25 0 Main LowCH20775-2502.5



# Band7\_5MHz\_256QAM\_25\_0\_Main\_MidCH21100-2535



# Band7\_5MHz\_256QAM\_25\_0\_Main\_HighCH21425-2567.5

Except Flager truth dragser -Onvegal En		-		A 100 AUTO	-		
Center Freq 2.567500000	GH2		567500000 GHz		Radio Std: None Radio Device: BTS		Frequency
Ref Offset 14.8 di Ref 30.00 dBn							
			-		1		Center Fred 2 567500000 GH
		1		1	1		
Center 2.568 GHz		#VBW 3	300 KHZ			in 10 MHz eep 5 ms	CF Step
Occupied Bandwidt		Total Power 26.2 dBm					Auto Man
the second s	4903 MH	1.1					Freq Offse
Transmit Freq Error x dB Bandwidth	-1.073 k 4,910 M		of OBW Pow B		9.00 % .00 dB		
60				2448	a		

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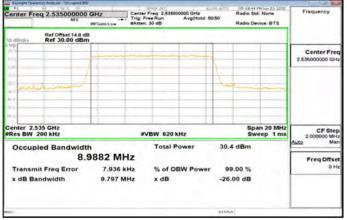
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# Band7 10MHz QPSK 50 0 Main LowCH20800-2505

Asymptot Space	Intern American - Characteris PW			41214		and the second second	1-10-00
Center Fre	ng 2.505000000	UTI2	Center Freq 2.5050 Trig: Free Run #Atten: 30 dB	AvgiHold Sorso	Radio Stil: N Radio Device	one	Frequency
(O diludiy	Ref Offset 14.9 dB Ref 30.00 dBm						
1000 0.00							Center Free 2.505000000 GH
0.4 70.0	ment			1		-	
401							
Center 2.5	05 GHz				Span	20 MHz	
Res BW			#VBW 620	kHz	Swee	p 1 ms	CF Step 2.000000 MH
Occup	led Bandwidth	1	Total	Power :	30.7 dBm	4	uto Mar
	9.0	0049 MH	z			Г	Freq Offse
Transm	it Freq Error	897 H	z % of C	BW Power	99.00 %		OH
x dB Ba	indwidth	9.839 MH	z x dB		26.00 dB		
					TRAJE		

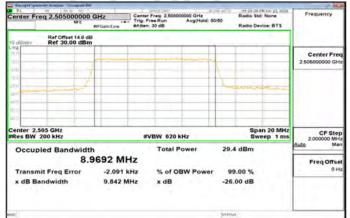


# Band7\_10MHz\_QPSK\_50\_0\_Main\_MidCH21100-2535

# Band7\_10MHz\_QPSK\_50\_0\_Main\_HighCH21400-2565

Center Fre	nq 2.565000000	- ** Tr	nter Freq 2,565 g: Free Run tten: 30 dB	Frequency				
o aevau	Ref Offset 14.8 di Ref 30.00 dBn	B n						
1000 1000							Center Fred 2.565000000 GH	
0.5	1				1	-		
6.7 0.1			_					
				-				
Res BW			#VBW 620	kHz		Span 20 MHz Sweep 1 ms	CF Ster 2,000000 MH	
Occup	ied Bandwidt						Auto Mar	
Transmit Freq Error 11.109		9867 MHz 11.109 kHz 9.805 MHz	Hz % of OBW Power S			0.00 % 00 dB	Freq Offse 0 H	
	, and a start of the start of t	0.000 11/12			-			
					117470			

#### Band7\_10MHz\_16QAM\_50\_0\_Main\_LowCH20800-2505



# Band7\_10MHz\_16QAM\_50\_0\_Main\_MidCH21100-2535



# Band7\_10MHz\_16QAM\_50\_0\_Main\_HighCH21400-2565

Except frame	nutry Anagount - On vagant BW						-		
Center Fre	aq 2.565000000 (	SH2	Center Freq 2.565000000 GHz Ra Trig: Free Run Avg/Hold: 50/50					None vice: BTS	Frequency
Vib/Bb 01	Ref Offset 14.9 dB Ref 30.00 dBm								
		-					-		Center Freq 2.565000000 GHz
						L			
400			_						
Center 2.5	65 GHZ		_		1		Roy	in 20 MHz	
TRes BW			#VE	W 620	kHz	_		eep 1 ms	CF Step 2.000000 MHz
Occup	ied Bandwidth			Total F	ower	29.7	dBm		Auto Man
	8.9	512 MH	z						Freq Offset
	it Freq Error Indwidth	-1.289 k) 9.790 M)		% of O x dB	BW Power		00 % 00 dB		0 Hz
Marci .						1.04404			

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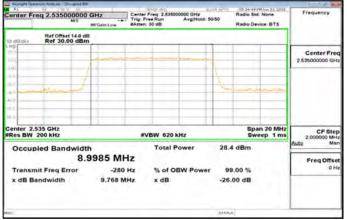
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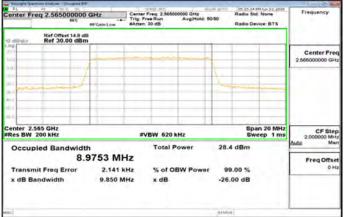
# Band7\_10MHz\_64QAM\_50\_0\_Main\_LowCH20800-2505

Center Fre	q 2.505000000	Tris	nter Freq 2.505000 g: Free Run tten: 30 dB	AvgiHold 50/50	Radio Stal: N Radio Device	one	Frequency
(0. dEvaliv	Ref Offset 14.9 dB Ref 30.00 dBm					- 1	
jn a 1000 0.00	1000						Center Free 2.505000000 GH
20 H	-und					-	
Center 2.50	05 GH2				Snan	20 MHz	
Res BW 2			#VBW 620 ki	Hz	Swee	p 1 ms	2.000000 MH
Occupi	ed Bandwidth		Total Po	wer 2	8.6 dBm		Auto Man
		931 MHz					FreqOffset
Transmi x dB Bar	it Freq Error ndwidth	6.819 kHz 9.815 MHz	% of OB x dB	W Power	99.00 % 26.00 dB		0 Ha
-					ARUS .		



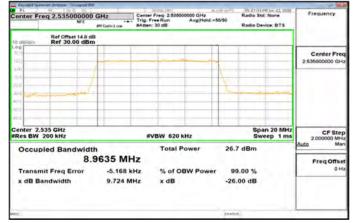
# Band7\_10MHz\_64QAM\_50\_0\_Main\_MidCH21100-2535

# Band7\_10MHz\_64QAM\_50\_0\_Main\_HighCH21400-2565





# Band7\_10MHz\_256QAM\_50\_0\_Main\_MidCH21100-2535



# Band7\_10MHz\_256QAM\_50\_0\_Main\_HighCH21400-2565

Except of Sparst	nutry Anagount - On vagant BW			Ania 1977		A AUTO	-		
Center Fre	enter Freq 2,565000000 GHz MIL MrGainLow			req 2.56500 e Run 10 dB	Avg Hold >5	Radio Std		Frequency	
VD dBAdiy	Ref Offset 14.9 dB Ref 30.00 dBm					_		1	
1002			-						Center Fred 2 565000000 GH
	amount			-		E			
101									
Center 2.5		1	#VE	3W 620 1	cHz			in 20 MHz eep 1 ms	CF Step 2 000000 MHz
Occup	ied Bandwidth			Total P	ower	26.	5 dBm		Auto Mar
	8.9 it Freq Error indwidth	644 MH 7.107 ki 9.766 Mi	Hz	% of O x dB	BW Power		00 dB		Freq Offset 0 Ho
And a									

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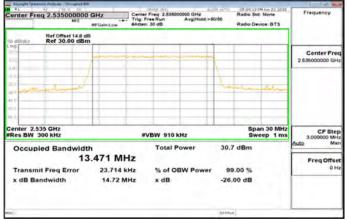
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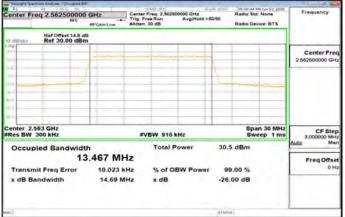
# Band7 15MHz QPSK 75 0 Main LowCH20825-2507.5

Asymptotic Space	Korn Analyter - Chargest PW		and the	124 ACTO 18	4-59-12 PH No. 23, 2020	1 10 80
Center Fre	nq 2.507500000	Trip	r Freq 2.507500000 GHz Free Run AvgiHold 5 m 30 dB	RJ	idia Stat None Idia Device: BTS	Frequency
(0. dilivaliy						
1000						Center Free 2.507500000 GH
20.4				1	- the	
10 H AL 11 10 H						
Center 2.5 #Res BW			VBW 910 kHz		Span 30 MHz Sweep 1 ms	CF Step
Occup	led Bandwidt		Total Power	30.6 dl	Bm	Auto Man
Transm	13 it Freg Error	.463 MHz 15.975 kHz	% of OBW Power	99.00	9%	FreqOffse
	ndwidth	14.70 MHz	x dB	-26.00	dB	
				at h flut		



# Band7\_15MHz\_QPSK\_75\_0\_Main\_MidCH21100-2535

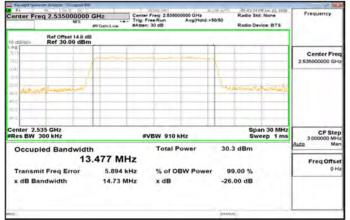
# Band7\_15MHz\_QPSK\_75\_0\_Main\_HighCH21375-2562.5



#### enter Freq 2.507500000 GHz IST JATH NO. 23 SHD 000 Ref Offset 14.8 e Ref 30.00 dB Center Fra Span 30 MHz Center 2.508 GHz CF Step VBW 910 kHz 3.0 Total Power 30.1 dBm **Occupied Bandwidth** 13.461 MHz Freq Offse % of OBW Por 0+ Transmit Freq Error 16.417 kHz 99.00 % dB Bandwidth 14.71 MHz x dB -26.00 dB

Band7\_15MHz\_16QAM\_75\_0\_Main\_LowCH20825-2507.5

# Band7\_15MHz\_16QAM\_75\_0\_Main\_MidCH21100-2535



# Band7\_15MHz\_16QAM\_75\_0\_Main\_HighCH21375-2562.5

Caynet Hawk	nam Anapar - Onvasual BW			Anie 1997	~ ~ ~			M.Sec. 23, 2528	
Center Fre	Inter Freq 2,56250000 GHz			Center Free Run Avg/Hold: 50/50 #Atten: 30 dB Radio					Frequency
to dBidiv	Ref Offset 14.9 dB Ref 30.00 dBm								
1007 1000 -						. 1	_		Center Free 2 562500000 GH
104 104									
101									
40.0				-		- 1			
Center 2.5 #Res BW			#VE	W 910	kHz			n 30 MHz eep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwidth			Total P	ower	29.7	dBm		Auto: Mar
	13.	473 MH	z						Freq Offset
Transmit Freq Error		8.591 ki	Hz	% of O	BW Power	99,	00 %		0 Hz
x dB Ba	indwidth	14.68 M	Hz	x dB		-26.0	0 dB		
ec.						(MARIN,			<u> </u>

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