

Agilent Spect	RF	50 Ω AC		SENSE:IN	ri I	ALIGN AUTO	08:47:53 PM Jul 1	11,2024
enter Fr	eq 5.01	5000000	PNO: Fast + IFGain:Low	Trig: Free Run #Atten: 10 dB		Type: RMS	TRACE 1 2 TYPE A W DET A A	345 Frequency
0 dB/div	Ref 0.0	0 dBm				Mk	r1 3.421 3 -72.857 c	GHz Auto Tun IBm
og 10.0 20.0 30.0		×2						Center Fre 5.015000000 GF
40.0 50.0 50.0			1					Start Fre 30.000000 MH
70.0 30.0 70.0								RMS Stop Fre 10.000000000 GF
tart 30 M Res BW	1.0 MHz	x		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.000 .33 ms (20001 FUNCTION VAL	997.000000 MI
1 N 1 2 N 1 3		31	.421 3 GHz .710 9 GHz	-72.857 dBm -3.272 dBm				Freq Offs
1								
				III.		a		•

LTE B4_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



R L	RE 50.0 AC		anner met			00.50 (1.0)		
	RF 50 Ω AC eq 5.015000000	PNO: Fast	SENSE:INT → Trig: Free Run #Atten: 10 dB	#Avg Ty	ALIGN AUTO	TRACE	1 2 3 4 5 6 A WWWWW A A A A A A	Frequency
) dB/div	Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB		M	(r1 3.461		Auto Tui
	¥2							Center Fr 5.015000000 Gi
0.0 0.0 0.0								Start Fr 30.000000 M
0.0					9999 2400 2400 2400 2400 2400 2400 2400		RMS	Stop Fr 10.000000000 G
art 30 MH Res BW 1.	.0 MHz	#VB\	W 3.0 MHz		Sweep 17	Stop 10.0 .33 ms (20	001 pts)	CF Sto 997.000000 M <u>Auto</u> M
1 N 1 2 N 1 3 4 5 6	f 3. f 1.	461 2 GHz 730 9 GHz	-73.627 dBm -2.981 dBm				E	Freq Offs 0
8								
9							-	

LTE B4_5 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



RL R			SENSE:INT		ALIGN AUTO	08:53:02 PM		Frequency
enter Freq	5.01500000	PNO: Fast + IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg	Type: RMS	TYPE	1 2 3 4 5 6 A A A A A A A	10 - 10 - 10 - 10
dB/div Re	ef 0.00 dBm				MI	(r1 3.510 -74.843	0 GHz 8 dBm	Auto Tur
og 0.0 0.0 0.0	¥2							Center Fre 5.015000000 GH
0.0 0.0 0.0								Start Fr 30.000000 M
0.0							RMS	Stop Fr 10.000000000 Gi
art 30 MHz Res BW 1.0	MHz	unitaria de	W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.0 2.33 ms (200 FUNCTION	001 pts)	CF Sto 997.000000 M Auto M
N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - 0 - - -		3.510 0 GHz .755 3 GHz	-74.843 dBm -3.669 dBm				E	Freq Offs 0
1 			m.		STATU	7	•	

LTE B4_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



RL	RF	50 Ω AC		SENSE:		ALIGN AUTO	08:55:47 PM Jul	11,2024	Frequency
enter Fi	req 5.01	500000	D GHz PNO: Fast + IFGain:Low	+ Trig: Free Ru #Atten: 10 dl	ın	g Type: RMS	TRACE	2 3 4 5 6 MMMM A A A A A	
dB/div	Ref 0.0					Mk	r1 3.421 8 -72.910		Auto Tu
D.0 D.0		×2							Center Fr 5.015000000 G
0.0 0.0 0.0									Start Fr 30.000000 M
1.0 1.0 1.0		L			~~~~	~~~~~		RMS	Stop Fr 0.000000000 G
art 30 N Res BW	1.0 MHz	X	#VB	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.000 .33 ms (2000	1 pts)	CF St 997.000000 M to M
1 N 1 2 N 1 3 4		1	8.421 8 GHz 1.711 4 GHz	-72.910 dBm -3.141 dBm					Freq Offs 0
6 7 8 9 9 1									
3				m		STATUS		•	
4						STATUS			

LTE B4_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



RL	trum Analyzer - Swept	AC		SENSE	INT	ALIGN AUT	08:58:32	PM Jul 11, 2024	
	req 5.01500	0000 G	HZ PNO: Fast ↔ FGain:Low		#A	vg Type: RMS	TRAC	E 1 2 3 4 5 6 E A 4444 A A A A A A	Frequency
0 dB/div	Ref 0.00 dE	3m				N	1kr1 3.456 -71.82	7 GHz 26 dBm	Auto Tun
og 10.0 20.0 30.0	¥2								Center Fre 5.015000000 G⊦
40.0 50.0 60.0			1						Start Fre 30.000000 MF
70.0		and the second secon				~~~~~		RMS	Stop Fre 10.00000000 GF
KR MODE TR	1.0 MHz	x		₩ 3.0 MHz Y	FUNCTION	Sweep	17.33 ms (2		CF Ste 997.000000 Mi <u>Auto</u> Mi
1 N 1 2 N 1 3 - - 4 - - 5 - - 6 - - 7 - - 8 - -			6 7 GHz 8 9 GHz	-71.826 dBm -3.767 dBm					Freq Offs 0 F
9				m					
G						STA	105		

LTE B4_10 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



RL	ctrum Analyzer - S	Ω AC		SENSE	INT		ALIGN AUTO	09:00:53 6	M Jul 11, 2024	
	req 5.015		PNO: Fast		tun	#Avg Typ		TRAC	1 2 3 4 5 6 A WWWWWW A A A A A A A	Frequency
0 dB/div	Ref 0.00						Mk	r1 3.509 -74.14	5 GHz 2 dBm	Auto Tun
og 10.0 20.0		2								Center Fre 5.015000000 GH
0.0 0.0 0.0										Start Fro 30.000000 Mi
'0.0 30.0 30.0		_				~~~~			RMS	Stop Fre 10.000000000 GF
	1.0 MHz	X		W 3.0 MHz	FUNCTION		weep 17	Stop 10. .33 ms (20	0001 pts)	CF Sto 997.000000 M <u>Auto</u> M
1 N 1 2 N 1 3 - - 4 - - 5 - - 6 - - 7 - - 8 - - 9 - -			509 5 GHz 755 3 GHz	-74.142 dBn -4.308 dBn						Freq Offs 01
0				ш					•	
G							STATUS			

LTE B4_10 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



	50 Ω AC		SENSE:IN		ALIGN AUTO	09:06:55 PM	Jul 11, 2024	Eroquenev
enter Freq 5.01	5000000	CHZ PNO: Fast ← IFGain:Low	Trig: Free Run #Atten: 10 dB		g Type: RMS	TRACE TYPE DET	1 2 3 4 5 6 A A A A A A A	Frequency
dB/div Ref 0.0	the second se				Mk	r1 3.422 -73.015	3 GHz 5 dBm	Auto Tu
99 0.0 0.0 0.0	*2							Center Fr 5.015000000 G
1.0 1.0 1.0		1						Start Fr 30.000000 M
).0).0).0			,				RMS	Stop Fr 10.000000000 G
art 30 MHz Res BW 1.0 MHz	X		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.0 .33 ms (200	001 pts)	CF St 997.000000 M Auto M
N 1 f 2 N 1 f 3 4 - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - -	<u>3.4</u> 1.7	422 3 GHz 711 4 GHz	-73.015 dBm -2.875 dBm					Freq Offs 0
0 1 1 1 1 1			m		STATUS	-	•	

LTE B4_15 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



RL	trum Analyzer - S	0Ω AC		SENSE:I	NT	ALIGN AUTO	09:09:38 PM	Jul 11, 2024	
	req 5.015		CHZ PNO: Fast - IFGain:Low		#Av	g Type: RMS	TRACE	1 2 3 4 5 6 A ###################################	Frequency
0 dB/div	Ref 0.00	dBm				Mk	r1 3.452 -71.937	2 GHz 7 dBm	Auto Tun
og 10.0 20.0		*2							Center Fre 5.015000000 GH
40.0 50.0 50.0									Start Fre 30.000000 MH
70.0 30.0 30.0						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		RMS	Stop Fre 10.000000000 GF
KR MODE TR	1.0 MHz	X		W 3.0 MHz Y	FUNCTION	Sweep 17	Stop 10.0 .33 ms (200	001 pts)	CF Sto 997.000000 M Auto M
1 N 1 2 N 1 3			452 2 GHz 726 4 GHz	-71.937 dBm -2.866 dBm					Freq Offs 01
1				m,				•	
G						STATUS	1		

LTE B4_15 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



RL	ctrum Analyzer - Swe RF 50 S			SEN	SE:INT		ALIGN AUTO	09:11:59	PM Jul 11, 2024	
enter F	req 5.0150	00000	PNO: Fast IFGain:Low	1000	Run	#Avg Typ	e: RMS	TRAC TYP DI	ET A A A A A A	Frequency
0 dB/div	Ref 0.00 d	IBm					MI	(r1 3.50) -73.6	9 0 GHz 89 dBm	Auto Tur
og 0.0 0.0	*:	2								Center Fre 5.015000000 GF
0.0 0.0 0.0										Start Fre 30.000000 Mi
0.0									RMS	Stop Fre 10.000000000 GF
	1.0 MHz	x		W 3.0 MHz			weep 17	7.33 ms (2	.000 GHz 0001 pts)	CF Ste 997.000000 Mi <u>Auto</u> Mi
1 N 1 2 N 1 3 4 5 6 7 8			09 0 GHz 54 8 GHz	-73.689 dE -3.009 dE					н н н	Freq Offs 01
9 0 1									-	
G							STATU	21		

LTE B4_15 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



RL RF	50 Ω AC		SENSE:INT		ALIGN AUTO		M Jul 11, 2024	Frequency
enter Freq 5	.015000000	PNO: Fast ← IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg Ty	pe: RMS	TYP	E 1 2 3 4 5 6 E A WWWWW T A A A A A A A	
dB/div Ref	0.00 dBm				MI	(r1 3.422 -73.08	8 GHz 33 dBm	Auto Tur
9 0.0 0.0	¥2							Center Fre 5.015000000 GF
).0).0).0								Start Fr 30.000000 M
0.0 0.0 0.0							RMS	Stop Fr 10.000000000 G
art 30 MHz Res BW 1.0 N	X		₩ 3.0 MHz		Sweep 17	Stop 10. 2.33 ms (20 FUNCTIO	0001 pts)	CF Sto 997.000000 M <u>Auto</u> M
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - 0 - - -	3	.422 8 GHz .711 9 GHz	-73.083 dBm -3.869 dBm					Freq Offs 0

LTE B4_20 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



RL	RF 5	OΩ AC		SENS	E:INT	ALIG	N AUTO		M Jul 11, 2024	
enter Fred	5.015	00000	PNO: Fast • IFGain:Low	Trig: Free F #Atten: 10	Run	vg Type: R	MS	TYP	1 2 3 4 5 6 A WWWW A A A A A A A	Frequency
dB/div R	ef 0.00						Mkr	1 1.688 -69.99	5 GHz 1 dBm	Auto Tur
og 0.0 0.0 0.0		²								Center Fre 5.015000000 GF
0.0 0.0 0.0		1								Start Fre 30.000000 Mi
0.0							Nadal ^{and} Association of		RMS	Stop Fre 10.000000000 GF
tart 30 MHz Res BW 1.0		x		W 3.0 MHz Y	FUNCTION		ep 17.3	Stop 10. 3 ms (20 FUNCTIO	001 pts)	CF Ste 997.000000 Mi <u>Auto</u> M
N 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>			1.688 5 GHz 1.724 4 GHz	-69.991 dBr -3.038 dBr						Freq Offs 01
				III	- M.					

LTE B4_20 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



RL	ctrum Analyzer - Swept SA RF 50 Q AC	-	SENSE:INT	ALIGN AUTO	09:19:44 PM Jul 11, 2024	
	req 5.01500000	PNO: Fast ↔ IFGain:Low		#Avg Type: RMS	TRACE 1 2 3 4 5 0 TYPE A WWWW DET A A A A A A	Frequency
0 dB/div	Ref 0.00 dBm			M	r1 3.508 5 GHz -74.286 dBm	Auto Tur
09 10.0 20.0 30.0	¥2					Center Fre 5.015000000 GH
i0.0 i0.0 i0.0						Start Fre 30.000000 Mi
0.0					FMS	Stop Fre 10.000000000 GH
KR MODE TR	1.0 MHz			Sweep 17	Stop 10.000 GHz 7.33 ms (20001 pts) FUNCTION VALUE	CF Ste 997.000000 MI <u>Auto</u> M
1 N 1 2 N 1 3		.508 5 GHz .754 8 GHz	-74.286 dBm -4.115 dBm			Freq Offs 01
9			m		•	
G				STATU	S	

LTE B4_20 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



RL	ctrum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN AUTO	08:31:50 PM Jul 11, 2024	
enter F	req 15.000000	000 GHz PNO: Fast ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WAXAWAY DET A A A A A A	Frequency
0 dB/div	Ref -20.00 dBr	n		Mkr1	18.895 97 GHz -83.267 dBm	Auto Tur
0.0						Center Fre 15.00000000 GF
).0).0						Start Fre 10.000000000 GF
).0).0						Stop Fre 20.000000000 GR
0.0					1 RMS	CF Ste 1.000000000 GI <u>Auto</u> M
00						Freq Offs 0
	000 GHz 1.0 MHz	#VBW :	3 0 MHz	Sween 26	Stop 20.000 GHz .67 ms (40000 pts)	
G				STATUS		

LTE B4_1.4 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



	08:34:58 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT			ctrum Analyzer - Swe RF 50 Ω	Agilent Spe
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	#Avg Type: RMS	Free Run	GH ₇	000000	req 15.000	
Auto Tur	18.902 22 GHz -82.808 dBm	Mkr1		ountrign		Ref -20.00	0 dB/div
Center Fre 15.00000000 GF							80.0
Start Fre 10.000000000 GF							0.0
Stop Fre 20.000000000 GR							0.0
CF Ste 1.000000000 GH <u>Auto</u> Ma	1 RMS						0.0
Freq Offs 01							00
	Stop 20.000 GHz .67 ms (40000 pts)	Sweep 26	Hz	#VBW 3.0 MH		000 GHz 1.0 MHz	tart 10.0
		STATUS					G

LTE B4_1.4 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO	08:37:19 PM Jul 11, 2024	
enter Freq 15.000000	00 GHz PNO: Fast ↔ IFGain:High	Trig: Free Run #Atten: 0 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
dB/div Ref -20.00 dBm			Mkr	1 18.931 47 GHz -82.990 dBm	Auto Tun
.0					Center Fre 15.000000000 GF
.0					Start Fre 10.000000000 GR
					Stop Fre 20.000000000 GR
1.0				1 RMS	CF Ste 1.000000000 GI <u>Auto</u> M
					Freq Offs 01
art 10.000 GHz Res BW 1.0 MHz	#VBW :	3.0 MHz	Sween 2	Stop 20.000 GHz 6.67 ms (40000 pts)	

LTE B4_1.4 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



	08:40:01 PM Jul 11, 2024	ALIGN AUTO	SE:INT	SEN			trum Analyzer - Swi	RL RL
Frequency	TRACE 1 2 3 4 5 TYPE A WWWWW DET A A A A A A	g Type: RMS	Run		PNO: Fast		req 15.000	
Auto Tur	18.902 72 GHz -82.976 dBm	Mkr1) dBm	Ref -20.00	0 dB/div
Center Fre 15.00000000 GF								80.0
Start Fre 10.000000000 GF								0.0
Stop Fre 20.000000000 GF								0.0
CF Ste 1.00000000 GF <u>Auto</u> Ma	1 RMS		a stainteau					0.0
Freq Offs 01								100
	Stop 20.000 GHz .67 ms (40000 pts)	Sweep 26		3.0 MHz	#VBW		00 GHz 1.0 MHz	tart 10.0
		STATUS						G

LTE B4_3 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



	08:42:54 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT		Analyzer - Swept SA F 50 Ω AC	RL RL
Frequency	TRACE 2 3 4 5 6 TYPE A WARMAN DET A A A A A A	#Avg Type: RMS	rig: Free Run Atten: 0 dB	PNO: Fast	15.00000000	
Auto Tur	18.877 72 GHz -82.904 dBm	Mkr1			f -20.00 dBm) dB/div
Center Fre 15.00000000 GF						0.0
Start Fr 10.000000000 G						I.O
Stop Fr 20.000000000 G						.0
CF St 1.00000000 G <u>Auto</u> M	1 RMS					1.0
Freq Offs 0						
	Stop 20.000 GHz 67 ms (40000 pts)	Sweep 26) MHz	#VBW 3.	GHz	art 10.0
		STATUS				G

LTE B4_3 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



	08:45:15 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT		RF 50 Ω AC	RL
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	g Type: RMS	Free Run en: 0 dB	PNO: Fast Irig: F	q 15.00000000	enter Fr
Auto Tur	18.919 22 GHz -83.013 dBm	Mkr1			ef -20.00 dBm) dB/div
Center Fre 15.00000000 GF						0.0
Start Fre 10.000000000 GR						1.0 1.0
Stop Fr 20.00000000 G						.0
CF Ste 1.000000000 GI <u>Auto</u> M	A RMS					.0
Freq Offs 0						
	Stop 20.000 GHz 67 ms (40000 pts)	Sweep 26	ЛНг	#VBW 3.0 MI		art 10.00 Res BW 1
	07 ms (40000 pts)	Sweep 20.		#VBVV 5.0 WI		G

LTE B4_3 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



	08:48:08 PM Jul 11, 2024	ALIGN AUTO	SE:INT	CEN			trum Analyzer - Sw RF 50 S	RL RL
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	vg Type: RMS	Run		PNO: Fast +++		req 15.000	
Auto Tur	18.909 97 GHz -83.055 dBm	Mkr1	ub	#Atten. 0	IFGain:High	dBm	Ref -20.00) dB/div
Center Fre 15.000000000 GR								0.0
Start Fr 10.000000000 G).0).0
Stop Fr 20.000000000 G								1.0 1.0
CF Sto 1.000000000 G <u>Auto</u> M	1 RMS		and the second second					1.0
Freq Offs 0								
	Stop 20.000 GHz .67 ms (40000 pts)	Sweep 26.		3.0 MHz	#vbw		00 GHz 1.0 MHz	art 10.0
		STATUS						G

LTE B4_5 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



	08:50:57 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT		rum Analyzer - Swept SA RF 50 Ω AC	RL RL
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	#Avg Type: RMS	Trig: Free Run #Atten: 0 dB	OGHZ PNO: Fast ↔ IFGain:High	eq 15.00000000	
Auto Tur	18.913 47 GHz -82.856 dBm	Mkr1	Writen o db	ir Gain. nigh	Ref -20.00 dBm) dB/div
Center Fre 15.00000000 GH						0.0
Start Fre 10.00000000 GR						0.0
Stop Fr 20.000000000 G).0).0
CF Ste 1.000000000 Gi <u>Auto</u> M	1 RMS					0.0
Freq Offs 0						00
	Stop 20.000 GHz .67 ms (40000 pts)	Sweep 26	3.0 MHz	#VBW	10 GHz I.0 MHz	tart 10.0
		STATUS				G

LTE B4_5 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



RL RF 50 Ω AC		SENSE:INT		LIGN AUTO		M Jul 11, 2024	
enter Freq 15.000000	PNO: Fast +++ If	ig: Free Run tten: 0 dB	#Avg Type		TYP DE	1 2 3 4 5 6 A WWWW T A A A A A A A	Frequency
dB/div Ref -20.00 dBm				Mkr1	18.924 -82.8	72 GHz 00 dBm	Auto Tur
.0							Center Fre 15.000000000 GF
.0							Start Fro 10.000000000 Gi
.0							Stop Fr 20.00000000 G
						1 RMS	CF Ste 1.000000000 GI <u>Auto</u> M
							Freq Offs 0
art 10.000 GHz Res BW 1.0 MHz	#VBW 3.0	MHz	SI	weep 26	Stop 20.	000 GHz 0000 pts)	

LTE B4_5 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



	ctrum Analyzer - Swept SA							
Center F	RF 50 Ω AC req 15.00000000	0 GHz	SENSE:INT	#Avg Type	E: RMS	08:56:02 PI TRACE	M Jul 11, 2024	Frequency
10 dB/div	Ref -20.00 dBm		g: Free Run tten: 0 dB		Mkr1	18.925	2 3 4 5 6 A A A A A A A 22 GHz 0 dBm	Auto Tune
-og								Center Freq 15.000000000 GHz
-40.0								Start Freq 10.00000000 GHz
-60.0								Stop Freq 20.000000000 GHz
-80.0							1RMS	CF Step 1.000000000 GHz <u>Auto</u> Mar
-100								Freq Offse 0 Ha
Start 10.0	000 GHz 1.0 MHz	#VBW 3.0	MHz	SI	weep <u>26</u>	Stop 20.0	000 GHz 000 pts)	
ISG					STATUS			

LTE B4_10 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



	ctrum Analyzer - Swept SA						
RL	RF 50 Ω AC		SENSE:INT	#Avg Type: RM		7 PM Jul 11, 2024	Frequency
enter F	req 15.0000000	PNO: Fast +++ II	ig: Free Run Atten: 0 dB	#Avg Type. Riv	13 10 T		
0 dB/div	Ref -20.00 dBm	ı			4kr1 18.891 -82.9	97 GHz 996 dBm	Auto Tun
30.0							Center Free 15.000000000 GH
40.0 50.0							Start Free 10.000000000 GH
60.0 70.0							Stop Fre 20.000000000 GH
0.0						1 RMS	CF Ste 1.000000000 GH <u>Auto</u> Ma
100							Freq Offs 0 H
tart 10.0		#\/D\W.2.6		0	Stop 2	0.000 GHz	
	1.0 MHz	#VBW 3.0		Swee	p 26.67 ms (40000 pts)	
9					31/103		

LTE B4_10 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



Agilent Spec	trum Analyzer - Swept SA					
	RF 50 Ω req 15.000000		SENSE:INT	#Avg Type: RMS	09:01:08 PM Jul 11, 2024 TRACE 2 3 4 5 6	Frequency
CILCIT	104 15.000000	PNO: Fast	Trig: Free Run #Atten: 0 dB			
		IFGain:High	#Atten: 0 dB			Auto Tun
				MKL	1 18.922 22 GHz -83.117 dBm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0 dB/div og	Ref -20.00 dE	3m			-05.117 UBII	
						Center Fre
0.0						15.00000000 GH
						10.00000000000
0.0						
						Start Fre
0.0						10.00000000 GH
0.0						Oton Eng
						Stop Fre
0.0						20.00000000 GH
0.0					1	CF Ste
				a sum det brinker and and	RMS	1.00000000 GH Auto Ma
0.0				I wanted the state of the state	فليتثلب التنالييني	<u>Auto</u> inc
for still it also	Salar and a second s					
100						Freq Offse
						0 H
110						
tart 10.0		10 (514)	0.0.001-	•	Stop 20.000 GHz	
Res BW	1.0 MHz	#VBW	3.0 MHz	Sweep 2	6.67 ms (40000 pts)	
G				STATU	JS	

LTE B4_10 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



	trum Analyzer - Swept SA					
Center F	RF 50 Ω AC req 15.0000000		SENSE:INT	#Avg Type: RMS	09:07:10 PM Jul 11, 2024 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref -20.00 dBn	PNO: Fast +++ IFGain:High	Trig: Free Run #Atten: 0 dB	Mkr1	18.915 22 GHz -82.476 dBm	Auto Tune
-30.0						Center Freq 15.000000000 GHz
-40.0						Start Freq 10.00000000 GHz
-60.0						Stop Freq 20.00000000 GHz
-80.0					1 RMS	CF Step 1.000000000 GHz <u>Auto</u> Man
-100						Freq Offset 0 Hz
Start 10.0		#\/B\M	3.0 MHz	Swaap 26	Stop 20.000 GHz .67 ms (40000 pts)	
MSG	1.0 10112	*** B44	5.0 WH12	SWEED ZO		

LTE B4_15 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



	ctrum Analyzer - Swept SA					
RL	RF 50 Ω AC		SENSE:INT	#Avg Type: RMS	09:09:53 PM Jul 11, 2024 TRACE 1 2 3 4 5 6	Frequency
enter F	req 15.000000	PNO: Fast	rig: Free Run Atten: 0 dB	HAVE Type. Kins		
0 dB/div	Ref -20.00 dBr	m		Mkr	1 18.920 97 GHz -82.862 dBm	Auto Tune
30.0						Center Free 15.000000000 GH
40.0 50.0						Start Free 10.000000000 GH
50.0 70.0						Stop Fre 20.000000000 GH
30.0					1 RMS	CF Ste 1.000000000 GH <u>Auto</u> Ma
100						Freq Offs 0 H
tart 10.0		#\/D\// 0	0.844-		Stop 20.000 GHz	
	1.0 MHz	#VBW 3.		Sweep 2	6.67 ms (40000 pts)	
0				STAT	03	

LTE B4_15 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



RL	RF 50 Ω			SENSE:INT		ALIGN AUTO	09:12:14 PM Jul 11		Francisco
enter F	req 15.000	00000	PNO: Fast +++ IFGain:High	Trig: Free Run #Atten: 0 dB	#Avg Typ		TRACE 1 2 3 TYPE A WW DET A A A		Frequency
0 dB/div	Ref -20.00	dBm				Mkr1	18.896 72 G -83.212 d	iHz Bm	Auto Tun
30.0								_	Center Fre 5.000000000 GF
10.0 50.0									Start Fre
50.0 70.0								2	Stop Fre 20.000000000 GH
0.0							1	RMS A	CF Ste 1.00000000 GF uto Ma
100									Freq Offs 0 F
tart 10.0	000 GHz 1.0 MHz		#VBW	3.0 MHz	s	weep 26	Stop 20.000 (.67 ms (40000	GHz pts)	
SG						STATUS			

LTE B4_15 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



	trum Analyzer - Swept SA							
Center Fr	RF 50 Ω AC req 15.00000000	00 GHz	SENSE:INT	#Avg Type:	IGN AUTO	09:14:55 P TRACE	M Jul 11, 2024 1 2 3 4 5 6 A WWWWWW A A A A A A A	Frequency
10 dB/div	Ref -20.00 dBm		#Atten: 0 dB		Mkr1	18.888		Auto Tune
30.0								Center Fred 15.000000000 GH
40.0 50.0								Start Free 10.000000000 GH
60.0 70.0								Stop Free 20.000000000 GH:
80.0							RMS	CF Step 1.00000000 GH <u>Auto</u> Ma
100								Freq Offse 0 H
Start 10.00		#VBW 3	.0 MHz	Sw	veep 26	Stop 20. .67 ms (41	000 GHz	
ISG					STATUS			

LTE B4_20 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



Agilent Spectrum A								
RE RE	50 Ω AC 15.000000000) GHz	SENSE:INT	#Avg Type:	IGN AUTO	09:17:38 PM Jul 11 TRACE 2 3 TYPE 0 WWW	156	Frequency
0 dB/div Re	f -20.00 dBm		Atten: 0 dB		Mkr1	18.935 97 G -82.737 d	112	Auto Tune
30.0							15.0	Center Free
50.0							10.0	Start Fre
70.0							20.0	Stop Fre 000000000 GH
80.0						1 1 1 1 1 1 1 1	RMS 1.0 Auto	CF Ste 000000000 GH Ma
100								Freq Offse 0 H
Start 10.000 G		#VBW 3.	0 MHz	SM	(een 26)	Stop 20.000 (67 ms (40000	GHz	
ISG					STATUS			

LTE B4_20 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB



RL	RF 50 Ω AC		SENSE:INT		ALIGN AUTO	09:19:59 PM Jul 11, 20	
enter F	req 15.000000	PNO: Fast ++ Irig	g: Free Run ten: 0 dB	#Avg Type		TRACE 2 3 4 TYPE A WWW DET A A A A A	
0 dB/div	Ref -20.00 dBr	n			Mkr1	18.906 72 GH -83.049 dBr	z Auto Tur n
30.0							Center Fre 15.00000000 GF
40.0 50.0							Start Fre 10.000000000 GH
50.0 70.0							Stop Fre 20.000000000 GH
0.0							CF Ste 1.000000000 GH Auto Ma
100							Freq Offs 0 F
	000 GHz 1.0 MHz	#VBW 3.0	MHz		ween 26	Stop 20.000 GH .67 ms (40000 pt	Z
G G	inviting.	# TEN 3.0		0	STATUS		2

LTE B4_20 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



RL	um Analyzer - Swept SA RF 50 Ω AC		SENSE:INT		ALIGN AUTO	08:31:20	PM Jul 11, 2024	
nter Fre	eq 1.71000000	PNO: Wide		#Avg Typ		TRAC	E 1 2 3 4 5 6 A WWWWW A A A A A A A	1 And the second sec
dB/div	Ref Offset 27 dB Ref 27.00 dBm				Mkr1	1.710 0 -20.6	00 GHz 22 dBm	Auto Tur
7.0			ſ	*~_				Center Fre 1.710000000 GF
00 00								Start Fr 1.708000000 G
3.0			1				-13.00 dBm	Stop Fr 1.712000000 Gi
3.0			man and	June	and the state		RMS	CF Ste 400.000 ki <u>Auto</u> M
.0 .0	free free and a second second					and a start of the second	wood	Freq Offs
enter 1.7 ⁴ Res BW 1	10000 GHz	#\/P\/	47 kHz		#Swaap	Span 4	.000 MHz 1001 pts)	
	J KIIZ	#VDVV	500 MU/2		STATUS		roo i pisj	

LTE B4_1.4 M_Band Edge_Low_QPSK_1RB



RL	RF 5	io Ω AC		SENSE:INT		ALIGN AUTO	08:30:46	PM Jul 11, 2024	
enter F	req 1.710		PNO: Wide ↔ IFGain:Low		#Avg T	ype: RMS	TRAC	2 3 4 5 6 PE A MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Frequency
) dB/div	Ref Offset Ref 27.0	27 dB 0 dBm				Mkr1	1.709 9 -22.9	92 GHz 65 dBm	Auto Tur
7.0									Center Fre 1.710000000 GF
00					***************************************	~~~~			Start Fre 1.708000000 Gi
3.0				1				-13.00 dBm	Stop Fre 1.712000000 Gi
.0		even and a second	and a read and and and and and and and and and a	manna				t all and the second	CF Sto 400.000 k <u>Auto</u> M
10 TO 10	ported to be a feature of the second								Freq Offs 0
	.710000 GI	Hz	#\/B\A	47 kHz		#Sweep	Span 4	.000 MHz 1001 pts)	
3						STATUS			

LTE B4_1.4 M_Band Edge_Low_QPSK_FullRB



Magilent Spectrum Analyzer - Channel P				
RL RF 50 Ω AC Center Freq 1.70850000 Ref Offset 27 c 10 dB/div Ref 30.00 dB	00 GHz #IFGain:Low	Center Freq: 1.708500000 GHz	N AUTO 08:30:55 PM Jul 11, 2024 Radio Std: None 0/300 Radio Device: BTS	Frequency
20.0 10.0				Center Freq 1.708500000 GHz
-10.0			m	
-30.0				
Center 1.709 GHz Res BW 39 kHz		VBW 390 kHz	Span 4 MHz Sweep 3.2 ms	CF Step 400.000 kHz <u>Auto</u> Man
Channel Power		Power Spectral	Density	Freq Offset 0 Hz
-22.98 dBm	1 / 1 MHz	-82.98 d	Bm /Hz	
MSG			STATUS	

LTE B4_1.4 M_Extended Band Edge_Low_QPSK_FullRB



RL	ctrum Analyzer - Swept S RF 50 Ω		SENSE:INT	ALIGN AUTO	08:36:49 PM Jul 11, 2024	
	req 1.755000	000 GHz PNO: Wide	Trig: Free Run	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	Frequency
) dB/div	Ref Offset 27 dl Ref 27.00 dB	IFGain:Low B M	#Atten: 10 dB	Mkr	1 1.755 000 GHz -22.628 dBm	2 · · · · · · · · · · · · · · · · · · ·
7.0			~~~~			Center Fre 1.755000000 GH
00						Start Fre 1.753000000 Gi
3.0			1		-13.00 dBm	Stop Fre 1.757000000 GF
3.0		And and a second	- h	***		CF Ste 400.000 kl <u>Auto</u> M
N.	a management of the second	~		Marrie Marrie	RMS	Freq Offs 01
enter 1.7	755000 GHz 15 kHz	#VBW	47 kHz	#Sweep	Span 4.000 MHz 0 1.000 s (1001 pts)	
G				STATU		

LTE B4_1.4 M_Band Edge_High_QPSK_1RB



RL	RF 50 Ω AC		SENSE:INT	ALIGN AUTO	08:36:11 PM Jul 11, 20	
enter F	Freq 1.7550000	00 GHz PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg Type: RMS	TRACE 1 2 3 4 TYPE A WWW DET A A A A A	
dB/div	Ref Offset 27 dB Ref 27.00 dBn	n		Mkr	1 1.755 000 GF -26.022 dB	Iz Auto Tu M
.0						Center Fr 1.755000000 G
10 10		lyner ywelen frant ywelanger a my'n ar fe				Start Fr 1.753000000 G
.0			1		-13.00 d	Stop Fr 1.757000000 G
.0 .0	Jurger and a start			un some har some og some og some og some og som		CF Sta 400.000 k <u>Auto</u> M
1.0					mar marine market have	Freq Offs 0
	.755000 GHz / 15 kHz	#VBW	47 kHz	#Sweep	Span 4.000 Mi 1.000 s (1001 pt	tz
		# 1 D M		STATU		

LTE B4_1.4 M_Band Edge_High_QPSK_FullRB



	um Analyzer - Chan					
Center Fre	RF 50 Ω eq 1.75650		Center Freq: 1.75650000 Trig: Free Run / #Atten: 10 dB	ALIGN AUTO 10 GHz Avg Hold: 300/300	08:36:22 PM Jul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
10 dB/div Log	Ref Offset					
20.0						Center Freq 1.756500000 GHz
0.00 -10.0						
-20.0	han	m				
-40.0			****			
-60.0 Center 1.7	57 GHz				Span 4 MHz	CF Step 400.000 kHz Auto Man
Res BW 39	9 kHz		VBW 390 kHz		Sweep 3.2 ms	
Chann	el Power		Power S	pectral Dens	sity	Freq Offset 0 Hz
-2	8.73 dE	3m / 1 MHz	-88	3.73 dBm	/Hz	
MSG				STATU	s	

LTE B4_1.4 M_Extended Band Edge_High_QPSK_FullRB



Agilent Spe	ectrum Analyzer -									
	^{RF} Freq 1.71	50 Ω AC 0000000			SE:INT	#Avg Typ	ALIGN AUTO	TRAC	PM Jul 11, 2024 DE 1 2 3 4 5 6 PE A 4 4 4 4 4 4 ET A A A A A A	Frequency
) dB/div	Ref Offse Ref 27.0		IFGain:Low	#Atten: 10	dB		Mkr1	1.710 0	000 GHz 15 dBm	Auto Tur
7.0					\cap					Center Fre 1.710000000 GF
.00										Start Fre 1.708000000 GF
3.0					1			0	-13.00 dBm	Stop Fre 1.712000000 GF
3.0		~		and and		m	and not	h	RMS	CF Ste 400.000 kl <u>Auto</u> M
3.0	and the second								have	Freq Offs 01
	.710000 G 30 kHz	Hz	#\/D\\	04 1/112			#Duus om	Span 4	.000 MHz (1001 pts)	
tes BW	JUKHZ		#VBW	91 kHz			#Sweep	1.000 S	roor prs)	

LTE B4_3 M_Band Edge_Low_QPSK_1RB



	08:38:56 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT	rum Analyzer - Swept SA RF 50 Ω AC
Frequency	TRACE 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	Trig: Free Run #Atten: 10 dB	eq 1.710000000 GHz PNO: Wide
Auto Tur	1.709 992 GHz -22.845 dBm	Mkr1		Ref Offset 27 dB Ref 27.00 dBm
Center Fre 1.710000000 GF				
Start Fro 1.708000000 GI	RMS	**************************************		
Stop Fr 1.712000000 G	-13.00 dBm		1	
CF Ste 400.000 k <u>Auto</u> M				and the second
Freq Offs 0				
	Span 4.000 MHz 1.000 s (1001 pts)	#Sweep	91 kHz	10000 GHz 30 kHz #VBW
	L	status		www.

LTE B4_3 M_Band Edge_Low_QPSK_FullRB



Je Agilent Spectrum Analyzer - Channel Power			
M RF 50 Ω AC Center Freq 1.708500000 GHz #IFGain:Low #IFGain:Low #IFGain:Low Ref Offset 27 dB 10 dB/div Ref 30.00 dBm	Center Freq: 1.708500000 GHz Trig: Free Run Avg Hold: 300/3 #Atten: 10 dB	Radio Std: None	Frequency
20.0 10.0 0.00			Center Freq 1.708500000 GHz
-10.0			
-50.0			CF Step 400.000 kHz
Center 1.709 GHz Res BW 39 kHz	VBW 390 kHz	Span 4 MHz Sweep 3.2 ms	<u>Auto</u> Man
Channel Power	Power Spectral D	ensity	Freq Offset 0 Hz
-20.88 dBm / 1 мнz	-80.88 dB	Sm /Hz	
MSG	1	STATUS	

LTE B4_3 M_Extended Band Edge_Low_QPSK_FullRB



RL RL	ctrum Analyzer - Swept RF 50 Ω	AC		SEN	ISE:INT		ALIGN AUTO	08:44:46	PM Jul 11, 2024	
	req 1.755000	0000 GHz	Wide +++	Trig: Free #Atten: 1	Run	#Avg Ty		TRAC	E 1 2 3 4 5 6 E A WWWW T A A A A A A	Frequency
dB/div	Ref Offset 27 o Ref 27.00 dl	IB	LOW				Mkr1	1.755 0 -17.9	04 GHz 47 dBm	Auto Tur
7.0				\cap						Center Fro 1.755000000 GI
00 10										Start Fr 1.753000000 G
.0					1				-13.00 dBm	Stop Fr 1.757000000 G
.0		and the second	****		and a second	- Com				CF St 400.000 k Auto M
.0	Jul Long							- manager	RMS	Freq Offs 0
	755000 GHz 30 kHz		#VBW 9	01 kHz			#Sweep	Span 4 1.000 s (.000 MHz 1001 pts)	
3							STATUS		in the second	

LTE B4_3 M_Band Edge_High_QPSK_1RB



RL RF 50Ω AC		SENSE:INT	ALIGN AUTO	08:44:08 PM Jul 11, 2024	Frequency
enter Freq 1.755000000	PNO: Wide	rig: Free Run Atten: 10 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 5 TYPE A MANNA DET A A A A A A	
Ref Offset 27 dB dB/div Ref 27.00 dBm			Mkr1	1.755 000 GHz -23.630 dBm	Auto Tur
.0					Center Fr 1.755000000 G
10					Start Fr 1.753000000 G
.0		1		-13.00 dBm	Stop Fr 1.757000000 G
o				RMS	CF St 400.000 k <u>Auto</u> M
.0					Freq Offs 0
enter 1.755000 GHz es BW 30 kHz	#VBW 91	kH7	#Sween	Span 4.000 MHz 1.000 s (1001 pts)	
I S BW 30 KHZ	#VBW 91	KHZ	#Sweep		

LTE B4_3 M_Band Edge_High_QPSK_FullRB



J Agilent Spectrum Analyzer - Channel Power			t) K
#IFGain:Low Ref Offset 27 dB 10 dB/div Ref 30.00 dBm	SENSE:INT ALIGN AUTO Center Freq: 1.756500000 GHz → Trig: Free Run Avg Hold: 300/300 #Atten: 10 dB	08:44:18 PM Jul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
20.0 10.0 0.00			Center Freq 1.756500000 GHz
-10.0			
-40.0			
Center 1.757 GHz Res BW 39 kHz	VBW 390 kHz	Span 4 MHz Sweep 3.2 ms	CF Step 400.000 kHz <u>Auto</u> Man
Channel Power	Power Spectral Den	sity	Freq Offset 0 Hz
-26.53 dBm / 1 мнz	-86.53 dBm	I /Hz	
MSG	STAT	us	

LTE B4_3 M_Extended Band Edge_High_QPSK_FullRB



Agilent Spectrum Analyzer - Swept SA							
RL RF 50 Ω AC enter Freq 1.710000000	PNO: Wide Trig	SENSE:INT	#Avg Type:	RMS	08:47:39 F TRAC TYP DE	M Jul 11, 2024	Frequency
Ref Offset 27 dB dB/div Ref 27.00 dBm	IFGain:Low #At	tten: 10 ab		Mkr1	1.710 0	00 GHz 52 dBm	Auto Tu
.0							Center Fr 1.710000000 G
0							Start Fr 1.708000000 G
o		1				-13.00 dBm	Stop Fr 1.712000000 G
						RMS	CF St 400.000 k <u>Auto</u> M
0							Freq Offe 0
enter 1.710000 GHz tes BW 51 kHz	#VBW 160	kH7		tSween	Span 4	.000 MHz 1001 pts)	
				STATUS	1.000 5 ((001 pts)	

LTE B4_5 M_Band Edge_Low_QPSK_1RB



	08:47:04 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT	rtrum Analyzer - Swept SA RF 50 Ω AC	RL
Frequency	TRACE 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	Trig: Free Run #Atten: 10 dB	req 1.710000000 GHz PNO: Wide ++- IFGain:Low	enter Fr
Auto Tur	1.710 000 GHz -23.399 dBm	Mkr1		Ref Offset 27 dB Ref 27.00 dBm	0 dB/div
Center Fre 1.710000000 GF					17.0
Start Fre 1.708000000 GF	RMS				.00
Stop Fre 1.712000000 Gi	-13.00 dBm		1		3.0
CF Ste 400.000 ki <u>Auto</u> M				~~~~	3.0
Freq Offs 0					3.0
	Span 4.000 MHz 1.000 s (1001 pts)	#Sween	160 kHz	710000 GHz 51 kHz #VBW	enter 1.7 Res BW 5
		STATUS		<u> </u>	G

LTE B4_5 M_Band Edge_Low_QPSK_FullRB



Je Agilent Spectrum Analyzer - Channel P				
RL RF 50 Ω A(Center Freq 1.7085000 Ref Ref Constant Constant Ref Constant Constant <thconstant< th=""></thconstant<>	00 GHz #FGain:Low	Center Freq: 1.708500000 GHz	N AUTO 08:47:14 PMJul 11, 2024 Radio Std: None 0/300 Radio Device: BTS	Frequency
20.0 10.0 0.00				Center Freq 1.708500000 GHz
-10.0 -20.0 -30.0 -40.0			~~~~~	
-50.0 -60.0 Center 1.709 GHz Res BW 39 kHz		VBW 390 kHz	Span 4 MHz Sweep 3.2 ms	CF Step 400.000 kHz <u>Auto</u> Man
Channel Power		Power Spectral	Density	Freq Offset 0 Hz
-21.88 dBn	n / 1 MHz	-81.88 d	Bm /Hz	
MSG			STATUS	

LTE B4_5 M_Extended Band Edge_Low_QPSK_FullRB



RL	rum Analyzer - Swept SA RF 50 Ω A	c l	SENSE:INT	ALIGN AUTO	08:52:48 PM Jul 11, 2024	
enter Fr	eq 1.7550000	00 GHz PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg Type: RMS	TYPE A WWWWW DET A A A A A A	1 And the second sec
dB/div	Ref Offset 27 dB Ref 27.00 dBn	n		Mkr1	1.755 004 GHz -20.233 dBm	Auto Tur
.0		(γ			Center Fr 1.755000000 G
0						Start Fr 1.753000000 G
.0			1		-13.00 dBm	Stop Fr 1.757000000 G
.0					RMS	CF St 400.000 k <u>Auto</u> M
0						Freq Offs 0
enter 1.7	55000 GHz 51 kHz	#VBW	160 kHz	#Sweep	Span 4.000 MHz 1.000 s (1001 pts)	
1				STATU		

LTE B4_5 M_Band Edge_High_QPSK_1RB



RL		AC	SEN	ISE:INT		ALIGN AUTO		PM Jul 11, 2024	Frequency
enter F	req 1.755000	0000 GHz PNO: Wide IFGain:Lov			#Avg Typ	e: RMS	TYP	ET A A A A A A	
dB/div	Ref Offset 27 d Ref 27.00 de	IB 3m				Mkr1	1.755 0 -24.2	00 GHz 74 dBm	Auto Tui
7.0									Center Fr 1.755000000 G
00 00	144 como a construction a constructin a construction a construction a construction a constructin	144744-1747-14 ₀₁₄ -2477-147-147878							Start Fr 1.753000000 G
3.0				1				-13.00 dBm	Stop Fr 1.757000000 G
.0				and a second		Marks-12-1-1976-142-1-1-1-1-	netron any put star	RMS	CF St 400.000 k <u>Auto</u> M
.0									Freq Offs 0
enter 1. Res BW	755000 GHz 51 kHz	#\	/BW 160 kHz			#Sweep	Span 4	.000 MHz 1001 pts)	
3						STATUS			

LTE B4_5 M_Band Edge_High_QPSK_FullRB



Ju Agilent Spectrum Analyzer - Channel Power			
#FGain:Low Ref Offset 27 dB 10 dB/div Ref 30.00 dBm	SENSE:INT ALIGN AUTO Center Freq: 1.756500000 GHz → Trig: Free Run Avg Hold: 300/300 #Atten: 10 dB	08:52:20 PM Jul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
Log 20.0 10.0 0.00			Center Freq 1.756500000 GHz
-10.0 -20.0 -30.0 -40.0			
-50.0 -60.0 Center 1.757 GHz		Span 4 MHz	CF Step 400.000 kHz <u>Auto</u> Man
Channel Power	VBW 390 kHz Power Spectral Den	Sweep 3.2 ms	Freq Offset 0 Hz
-27.09 dBm / 1 мнz	-87.09 dBm	1 /Hz	
MSG	STAT	rus	

LTE B4_5 M_Extended Band Edge_High_QPSK_FullRB



RL RL	ctrum Analyzer - Swept RF 50 Ω	AC AC	_	SEN	ISE:INT		ALIGN AUTO	08-55-22	PM Jul 11, 2024	
	req 1.71000	0000 GH	Z D: Wide ↔→		Run	#Avg Typ		TRAC		Frequency
) dB/div	Ref Offset 27 Ref 27.00 d	dB					Mkr1	1.710 0 -28.0	00 GHz 12 dBm	Auto Tu
7.0						\bigwedge				Center Fr 1.710000000 G
										Start Fi 1.708000000 G
3.0					1		No No No		-13.00 dBm	Stop Fi 1.712000000 G
3.0		and the second second	and and a starting of the starting of the start of the st	and the second designed and the second designed and the second designed and the second designed and the second)	hanner allow	RMS	CF St 400.000 H <u>Auto</u> M
3.0										Freq Off 0
	710000 GHz 100 kHz		#VBW	300 kHz			#Sweep	Span 4	.000 MHz (1001 pts)	
G							STATUS			

LTE B4_10 M_Band Edge_Low_QPSK_1RB



							trum Analyzer - Swept SA	
Frequency	08:54:58 PM Jul 11, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	ALIGN AUTO	#Avg Ty	SENSE:INT	Trig: Fre	PNO: Wide ->	RF 50 Ω AC req 1.710000000	Center F
Auto Tun	.710 000 GHz -26.588 dBm	Mkr1		en: 10 dB	#Atten: 1	IFGain:Low	Ref Offset 27 dB Ref 27.00 dBm	0 dB/div
Center Fre 1.710000000 GH								17.0
Start Fre 1.708000000 G⊦	RMS		\int					3.00
Stop Fre 1.712000000 GF	-13.00 dBm			1				3.0
CF Ste 400.000 kH Auto Ma				angerry anger	and a state of the	and an	unan ang ang ang ang ang ang ang ang ang	3.0
Freq Offs 01								3.0
	Span 4.000 MHz						710000 GHz	
	.000 s (1001 pts)	#Sweep		kHz	SW 300 kHz	#VBW	100 kHz	Res BW

LTE B4_10 M_Band Edge_Low_QPSK_FullRB



	um Analyzer - Chann					
10 dB/div	RF 50Ω eq 1.708500 Ref Offset 2 Ref 30.00	₩IFGain:Low	SENSE:INT Center Freq: 1.708500000 0 → Trig: Free Run Avg #Atten: 10 dB	ALIGN AUTO GHz JHold: 300/300	08:55:07 PMJul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
20.0 10.0						Center Freq 1.708500000 GHz
-10.0 -20.0 -30.0					man	
-40.0 -50.0						CF Step
Center 1.7 Res BW 3			VBW 390 kHz		Span 4 MHz Sweep 3.2 ms	400.000 kHz <u>Auto</u> Man
Chann	el Power		Power Spo	ectral Dens	sity	Freq Offset 0 Hz
-2	3.67 dB	5 m / 1 MHz	-83.	67 dBm	/Hz	
MSG				STATU	S	

LTE B4_10 M_Extended Band Edge_Low_QPSK_FullRB



	755000 GHz 100 kHz	2	#\/B\/	300 kHz			#Sweep	Span 4.	000 MHz		
3.0											0 H
3.0									RMS	F	req Offs
3.0	- And a start of the start of t				and and	hannen				Auto	100.000 ki Mi
3.0	-	1		X	1						CF Ste
3.0		/		Ì						the second second second	Stop Fr 000000 G
.0		1	/	X					-13.00 dBm		Stop Fre
.00				l.							Start Fre
.00											
7.0										1000	enter Fre
) dB/div ^{og} r	Ref Offset 2 Ref 27.00	7 dB dBm						-29.64	15 dBm		
			PNO: Wide IFGain:Low	#Atten: 10			Mkr1	DE 1.755 0	A A A A A A		Auto Tui
enter F	req 1.7550	000000	SHz	Trig: Free F	2	#Avg Typ	e: RMS	TRAC	1 2 3 4 5 6 A WWWW	Fre	quency

LTE B4_10 M_Band Edge_High_QPSK_1RB



RL	RF 50			SEN	ISE:INT		ALIGN AUTO		PM Jul 11, 2024	Eroquepeu
enter F	req 1.7550	000000	CHZ PNO: Wide IFGain:Low	Trig: Free #Atten: 1		#Avg Typ	e: RMS	TY	CE 1 2 3 4 5 6 PE A WWWW ET A A A A A A A	Frequency
dB/div	Ref Offset 2 Ref 27.00	27 dB 0 dBm					Mkr1	1.755 (-27.0	000 GHz 26 dBm	Auto Tu
7.0										Center Fr 1.755000000 G
00 10										Start Fr 1.753000000 G
.0				A Non Maria	1				-13.00 dBm	Stop Fr 1.757000000 G
.0					Transananondas	Providence and a second	an and a start from the start of the start o	****	RMS	CF St 400.000 k <u>Auto</u> M
0				·						Freq Offs 0
	755000 GH 100 kHz	z	#VBW	300 kHz			#Sween	Span 4	.000 MHz (1001 pts)	
							STATUS			

LTE B4_10 M_Band Edge_High_QPSK_FullRB



Je Agilent Spectrum Analyzer - Cha				
Center Freq 1.75650	00000 GHz #FGain:Low	Center Freq: 1.756500000 GHz	LIGN AUTO 09:00:10 PM Jul 11, 2024 Radio Std: None 300/300 Radio Device: BTS	Frequency
10 dB/div Ref 30.0				
20.0				Center Freq 1.756500000 GHz
-10.0				
-20.0 h				
-40.0	······		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Center 1.757 GHz			Spap 4 MHz	CF Step 400.000 kHz
Res BW 39 kHz		VBW 390 kHz	Span 4 MHz Sweep 3.2 ms	<u>Auto</u> Man
Channel Power		Power Spectra	I Density	Freq Offset 0 Hz
-27.59 di	3m / 1 мнz	-87.59	dBm /Hz	
MSG			STATUS	

LTE B4_10 M_Extended Band Edge_High_QPSK_FullRB



	Analyzer - Swept SA							
enter Freq	F 50 Ω AC 1.710000000	PNO: Wide ++	. Trig: Free Run	#Avg Type:		09:06:41 PM Ju TRACE	2 3 4 5 6 A A A A A A	Frequency
	f Offset 27 dB ef 27.00 dBm	IFGain:Low	#Atten: 10 dB		Mkr1 1	.709 996	GHz	Auto Tur
7.0								Center Fre 1.710000000 GF
00								Start Fr 1.708000000 GI
3.0			1,000				13.00 dBm RMS	Stop Fr 1.712000000 G
.0		- and a second second					A.	CF St 400.000 k <u>Auto</u> M
.0								Freq Offs 0
enter 1.7100 Res BW 150		#\/B\A	470 kHz		Sween 1	Span 4.00 .000 s (100	0 MHz	
	1112	#VDW	47 0 KH2	#	STATUS	.000 5 (100	r prs)	

LTE B4_15 M_Band Edge_Low_QPSK_1RB



	09:06:06 PM Jul 11, 2024	ALIGN AUTO		SENSE:INT		Analyzer - Swept SA F 50 Ω AC	RL
Frequency	TRACE 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	pe: RMS	#Avg Ty	Trig: Free Run #Atten: 10 dB	CHZ PNO: Wide IFGain:Low	1.710000000	enter Fr
Auto Tur	1.710 000 GHz -28.762 dBm	Mkr1				f Offset 27 dB f 27.00 dBm) dB/div
Center Fro 1.710000000 GI							7.0
Start Fr 1.708000000 G	EMS		-/				
Stop Fr 1.712000000 G	-13.00 dBm			1			3.0
CF St 400.000 k <u>Auto</u> M				and the second	- Sall and a sale of the sale	ang at any ang	.0
Freq Offs 0							.0
	Span 4.000 MHz	#0		70 //1-	#//D	000 GHz	
	1.000 s (1001 pts)	#Sweep			#VBW	KH2	Res BW

LTE B4_15 M_Band Edge_Low_QPSK_FullRB



	um Analyzer - Chann						
Center Fro	RF 50 Ω eq 1.708500 Ref Offset 2 Ref 30.00	₩IFGain:Low	SENSE:INT Center Freq: 1.7085000 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 00 GHz Avg Hold: 300/300	Radio Std: Noi Radio Device:	ne	Frequency
20.0							Center Freq 1.708500000 GHz
0.00 -10.0 -20.0							
-30.0 -40.0 -50.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					vvv	
Center 1.7 Res BW 3			VBW 390 kHz		Span Sweep 3	4 MHz 3.2 ms	CF Step 400.000 kHz Auto Man
	el Power		Power S			Freq Offset 0 Hz	
-2	6.26 dB	M / 1 MHz	-8	6.26 dBm	/Hz		
MSG				STATU	S		

LTE B4_15 M_Extended Band Edge_Low_QPSK_FullRB



Frequency	09:11:45 PM Jul 11, 2024	ALIGN AUTO	SENSE:INT		ctrum Analyzer - Swept SA RF 50 Ω AC	RL
	TRACE 1 2 3 4 5 5 TYPE A WARKAWA DET A A A A A A	#Avg Type: RMS	. Trig: Free Run #Atten: 10 dB	PNO: Wide IFGain:Low	req 1.75500000	enter F
Auto Tu	1.755 004 GHz -23.119 dBm	Mkr1			Ref Offset 27 dB Ref 27.00 dBm	dB/div
Center Fr 1.755000000 G				\frown		.0
Start Fr 1.753000000 G						0
Stop Fr 1.757000000 G	-13.00 dBm		•1			o
CF St 400.000 H <u>Auto</u> M	RMS					
Freq Off 0						0
	Span 4.000 MHz 1.000 s (1001 pts)	#Sweep	470 kHz	#VBW	755000 GHz 150 kHz	nter 1. es BW
		STATUS				1

LTE B4_15 M_Band Edge_High_QPSK_1RB



Agilent Spectrum Analyze			analan tam			09:11:08 PM Jul 1		
Center Freq 1.7		PNO: Wide ++	SENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRACE 1 2 TYPE A W DET A A	4 5 6	Frequency
	et 27 dB .00 dBm	IFGain:Low	#Atten: 10 dB		Mkr1	1.755 008 C -30.275 d	SHZ	Auto Tun
17.0								Center Fre 1.755000000 GH
r.00 .00								Start Fre 1.753000000 GF
3.0						-13	00 dBm	Stop Fre 1.757000000 GH
3.0				and a star of the			RMS	CF Ste 400.000 kH Auto Ma
3.0								Freq Offs 0 F
30 center 1.755000 (#V(D)W	470 1411-		#0	Span 4.000	MHz	
Res BW 150 kHz		#VBW	470 kHz		#Sweep	1.000 s (1001	pits)	

LTE B4_15 M_Band Edge_High_QPSK_FullRB



	Analyzer - Channel Pow	er				
Center Freq	1.756500000	#IFGain:Low	SENSE:INT Center Freq: 1.75650 Trig: Free Run #Atten: 10 dB	ALIGN AUTO 0000 GHz Avg Hold: 300/300	09:11:17 PMJul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 27 dB Ref 30.00 dBr					
20.0						Center Freq 1.756500000 GHz
0.00 -10.0						
-20.0						
-40.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Center 1.757					Span 4 MHz	CF Step 400.000 kHz
Res BW 39 k			VBW 390 kH	lz	Sweep 3.2 ms	
Channel	Power		Power	Spectral Dens	sity	Freq Offset 0 Hz
-29.	12 dBm	/ 1 MHz	-	89.12 dBm	/Hz	
MSG				STATU	IS	

LTE B4_15 M_Extended Band Edge_High_QPSK_FullRB



					ectrum Analyzer - Swept S	
Frequency	09:14:25 PM Jul 11, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	#Avg Type: RMS	SENSE:INT	AC 0000 GHz PNO: Wide ↔	RF 50 Ω Freq 1.710000	enter F
Auto Tur	1.710 000 GHz -32.081 dBm	Mkr1	#Atten: 10 dB		Ref Offset 27 dl Ref 27.00 dB	0 dB/div
Center Fre 1.710000000 GF						7.0
Start Fre 1.708000000 GF	A RMS					.00
Stop Fre 1.712000000 GF	-13.00 dBm					3.0
CF Ste 400.000 kl <u>Auto</u> M						3.0
Freq Offs 01						3.0
	Span 4.000 MHz 1.000 s (1001 pts)	#Sweep	620 kHz	#VBM	.710000 GHz / 200 kHz	
		STATUS				G

LTE B4_20 M_Band Edge_Low_QPSK_1RB



						um Analyzer - Swept SA	
Frequency	09:13:51 PM Jul 11, 2024	ALIGN AUTO		SENS	CH-Z	RF 50 Ω AC eq 1.710000000	RL
	TRACE 23456 TYPE A WWWW DET A A A A A A		n	Trig: Free #Atten: 10	PNO: Wide	eq 1.7 1000000	Senter T
Auto Tune	1.709 952 GHz -31.511 dBm	Mkr1				Ref Offset 27 dB Ref 27.00 dBm	0 dB/div
Center Fred 1.710000000 GHz							17.0
Start Free 1.708000000 GH:	RMS						3.00
Stop Fred 1.712000000 GHz	-13.00 dBm						13.0 23.0
CF Step 400.000 kH <u>Auto</u> Mar					n un de manet es transmer est a tra		33.0
Freq Offse 0 H							53.0
	Span 4.000 MHz	# 0		600 LUI-		10000 GHz	
	1.000 s (1001 pts)	#Sweep		620 kHz	#VBW	OU KHZ	Res BW

LTE B4_20 M_Band Edge_Low_QPSK_FullRB



	um Analyzer - Chann					
Center Fre	RF 50Ω eq 1.708500 Ref Offset 2 Ref 30.00	#IFGain:Low	SENSE:INT Center Freq: 1.708500000 Trig: Free Run A #Atten: 10 dB	ALIGN AUTO O GHz vg Hold: 300/300	09:14:01 PMJul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
20.0						Center Freq 1.708500000 GHz
0.00 -10.0 -20.0						
-30.0 -40.0 -50.0						
Center 1.7 Res BW 3			VBW 390 kHz		Span 4 MHz Sweep 3.2 ms	CF Step 400.000 kHz <u>Auto</u> Man
Chann	el Power		Power S	pectral Dens	sity	Freq Offset 0 Hz
-2	8.25 dB	3 m / 1 MHz	-88	.25 dBm	/Hz	
MSG				STATU	S	

LTE B4_20 M_Extended Band Edge_Low_QPSK_FullRB



1.753000000 (-13.00 cm	1.75500 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.75300 1.755000 1.755000 1.755000 1.755000 1.755000 1.755000 1.755000 1.750	Center Fred 1.755000000 GH2 1.753000000 GH2 1.753000000 GH2 1.757000000 GH2
5 Start F 1.75300000 (13.00 efm)	1.75500 1.75500 1.75300	1.755000000 GH
Start F	1.75500 St 1.75500	1.75500000 GH
	1.75500	1.755000000 GH
	1.755000	
		Contor Fr

LTE B4_20 M_Band Edge_High_QPSK_1RB



	im Analyzer - Swept SA					
Center Fre	RF 50 Ω AC		SENSE:INT	#Avg Type: RMS	09:18:52 PM Jul 11, 2024 TRACE 1 2 3 4 5 6	Frequency
	Ref Offset 27 dB Ref 27.00 dBm	PNO: Wide ↔ IFGain:Low	 Trig: Free Run #Atten: 10 dB 	Mkr1	1.755 000 GHz -32.280 dBm	Auto Tun
17.0						Center Fre 1.755000000 GH
3.00						Start Fre 1.753000000 GH
13.0					-13.00 dBm	Stop Fre 1.757000000 GH
33.0			man and a second		RMS	CF Ste 400.000 kH Auto Ma
53.0						Freq Offs 0 ⊦
center 1.75		#VBM	/ 620 kHz	#Sweep	Span 4.000 MHz 1.000 s (1001 pts)	
SG				STATUS		

LTE B4_20 M_Band Edge_High_QPSK_FullRB



	um Analyzer - Chann					
Center Fre	RF 50 Ω eq 1.756500 Ref Offset 2	⊶ #IFGain:Low	SENSE:INT Center Freq: 1.756500000 Trig: Free Run A #Atten: 10 dB	ALIGN AUTO O GHz vg Hold: 300/300	09:19:01 PM Jul 11, 2024 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref 30.00					
20.0 10.0						Center Freq 1.756500000 GHz
0.00						
-20.0						
-40.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			· · · · · · · · · · · · · · · · · · ·	
-60.0						CF Step 400.000 kHz
Center 1.7 Res BW 3			VBW 390 kHz		Span 4 MHz Sweep 3.2 ms	<u>Auto</u> Man
Chann	el Power		Power Sp	pectral Dens	sity	Freq Offset 0 Hz
-3	0.02 dB	m / 1 MHz	-90	.02 dBm	/Hz	
MSG				STATU	S	

LTE B4_20 M_Extended Band Edge_High_QPSK_FullRB



13. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2407-FC052-P