



#### LTE(CV2X)\_10 M\_CSE(Above10G)\_Low\_QPSK\_1RB





#### LTE(CV2X)\_10 M\_CSE(Above10G)\_ Mid\_QPSK\_1RB





### LTE(CV2X)\_10 M\_CSE(Above10G)\_ High\_QPSK\_1RB





#### LTE(CV2X)\_20 M\_CSE(Above10G)\_Low\_QPSK\_1RB





#### LTE(CV2X)\_20 M\_CSE(Above10G)\_ Mid\_QPSK\_1RB





### LTE(CV2X)\_20 M\_CSE(Above10G)\_ High\_QPSK\_1RB



Spectrum Analy Swept SA	rzer 1 📊 🕂					SCPI	Frequen	oy 🔻 🔣
KEYSIGHT RL ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: F Trig: Free Ru	Power (RMS 1 2 3 4 5 6 in A WWWWW A A A A A A A	Center Frequency 5.895000000 GHz	Settings
1 Spectrum Scale/Div 10 d	B		Ref LvI Offset 25.4 Ref Level 25.00 dB		Mkr	1 5.895 000 GHz -32.400 dBm		
15.0							Full Span	
-5.00							Start Freq 5.893000000 GHz	
-15.0						OL 1 -16.00 dBm.	Stop Freq 5.897000000 GHz	
-25.0			1				AUTO TUNE	
-35.0							CF Step 400.000 kHz Auto	
-55.0							Man Freq Offset	
-65.0							0 Hz	Local
Center 5.89500 #Res BW 100 k			#Video BW 300 k	Hz	#Sw	Span 4.000 MHz veep ~5.03 s (1001 pts)		
<b>ま</b>		Mar 18, 2025 2:51:01 AM					Signal Track (Span Zoom)	

## LTE(CV2X)\_10 M\_BandEdge\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	/zer 1 +						SCPI	\$	Frequency	- * 影
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	A	2 3 4 5 6	5.8920	Frequency 00000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr1	5.894 0 -24.2	00 GHz 09 dBm	= s	0000 MHz wept Span ero Span	
-10.0						DI	c1 -13.00 dBm	F	ull Span	
-20.0							1	Start Fre 5.8900	eq 000000 GHz	
-30.0								Stop Fre 5.8940	eq 100000 GHz	
-50.0								AU	JTO TUNE	
-60.0								CF Step 400.00	0 kHz	
-80.0									uto Ian	
-90.0								0 Hz		Local
Start 5.890000 #Res BW 1.0 N			#Video BW 3.0 Mi	Hz	#Swe	Stop 5.8 eep ~5.03 s	94000 GHz (1001 pts)		Scale og in	
<b>۱</b>	~ 🗖 ?	Mar 18, 2025 2:51:25 AM						Signal T (Span Zo	Track	

# LTE(CV2X)\_10 M\_BandEdge(1)\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	/zer 1 🕇 🕇						SCPI	\$	Frequency	1 影
KEYSIGHT RL ↔→→	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run		23456 WWWWW AAAAAA	5.87750	Frequency 00000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr1		975 GHz 55 dBm	Sv	0000 MHz wept Span ero Span	
-10.0						c	L1 -16.00 dBm	FI	ull Span	
-20.0							1	Start Fre 5.86500	eq 00000 GHz	
-30.0								Stop Fre 5.89000	eq 00000 GHz	
-50.0	and the state of the	and the second	te and the second second second	and the second				AU	TO TUNE	
-60.0								CF Step 2.50000		
-70_0								Au Ma	uto an	
-90.0								Freq Off 0 Hz	íset	
Start 5.86500 0 #Res BW 1.0 N			#Video BW 3.0 Mł	Hz	#Sw		89000 GHz (1001 pts)	X Axis S Lo Li	bg	Local
1	? 🗖 🔊	Mar 18, 2025 2:51:48 AM						Signal Ti (Span Zo		

# LTE(CV2X)\_10 M\_BandEdge(2)\_Low\_QPSK\_FullRB







### LTE(CV2X)\_10 M\_BandEdge(3)\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	zer 1 , 🕂					SCPI	₽	Frequency	<ul> <li>▼ S<sup>1</sup>/<sub>2</sub></li> </ul>
KEYSIGHT RL ↔→→	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Trig: Free R	Power (RMS123456 un AWWWWW AAAAAA	Center Fre 5.8950000		Settings
1 Spectrum Scale/Div 10 dl	B		Ref LvI Offset 25.4 Ref Level 25.00 dB		Mkr	1 5.895 000 GHz -32.149 dBm		00 MHz ot Span Span	
15.0					$\bigcap$			Span	
-5.00							Start Freq 5.8930000 Stop Freq	000 GHz	
-15.0						DL1-16.00 dBm	5.8970000		
-35.0			1.				CF Step	TUNE	
-45.0							400.000 k Auto Man	2793-83	
-65.0							Freq Offset 0 Hz		Local
Center 5.89500 #Res BW 100 k			#Video BW 300 k	Hz	#Sv	Span 4.000 MHz veep ~5.03 s (1001 pts)	X Axis Sca Log Lin	le	
1		Mar 18, 2025 2:52:52 AM					Signal Trac (Span Zoom		

## LTE(CV2X)\_10 M\_BandEdge\_Low\_QPSK\_1RB





Spectrum Analy Swept SA	/zer 1 🕇 🕇 🕇						SCPI	\$	Frequency	· • 器
KEYSIGHT RL +→• ₩	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Trig: Free Run	wer (RMS <mark>12</mark> 3 A \\\ A A A	www	Second Second Second	Frequency 00000 GHz	Settings
1 Spectrum	х¢	F	Ref LvI Offset 25.40	) dB	Mkr1	5.894 000		and the second se	0000 MHz	
Scale/Div 10 d	B	F	Ref Level 0.00 dBm	1		-27.041	dBm		vept Span ero Span	
-10.0						011-13	00 dBm	F	ull Span	
-20.0							1	Start Fre 5.89000	eq 00000 GHz	
-30.0								Stop Fre 5.89400	eq 00000 GHz	
-50.0								AU		
-60.0								CF Step 400.000		
-70_0								AL Ma		
-80.0								Freq Off 0 Hz	set	
Start 5.890000 #Res BW 1.0 M			#Video BW 3.0 M	Hz	#Swee	Stop 5.89400 ep ~5.03 s (100	0 GHz )1 pts)	X Axis S Lo	yg .	Local
5	? 🗖 🔊	Mar 18, 2025 2:53:16 AM					X	Signal Ti (Sean Zo		

## LTE(CV2X)\_10 M\_BandEdge(1)\_Low\_QPSK\_1RB





Spectrum Analy Swept SA							SCPI	\$	Frequency	· * 絵
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	A <del>WW</del>	4 5 6 WWW A A A	Center Fr 5.87750 Span	requency 0000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr1	5.889 975 -39.388		25.0000 Sw	000 MHz ept Span o Span	
-10.0						DL1 -16	.00 dBm	Fu	ll Span	
-20.0								Start Free 5.86500	9 0000 GHz	
-40.0							1	Stop Free 5.89000	1 0000 GHz	
-50.0	an yan yan ang mga kata sa							100000	O TUNE	
-60.0								CF Step 2.50000 Aut	10.000000000	
-80.0								Ma Freq Offs	n	
-90.0								0 Hz X Axis So	ale	Local
Start 5.86500 0 #Res BW 1.0 N		Mar 18, 2025	#Video BW 3.0 MI	Hz		Stop 5.8900 ep 5.00 s (10		Log Lin		
		2:53:40 AM	$\square \Delta$					Signal Tr (Span Zoo		

# LTE(CV2X)\_10 M\_BandEdge(2)\_Low\_QPSK\_1RB





Spectrum Analy Swept SA	· · · ·						SCPI	\$	Frequency	- <b>*</b> 🔆
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>123</mark> A WW A A A A	www	Center Fr 5.85500 Span	requency 0000 GHz	Settings
1 Spectrum		F	Ref LvI Offset 25.40	) dB	Mkr1	5.863 96	GHz	and the second second second	000 MHz	
Scale/Div 10 d	B	F	Ref Level 0.00 dBm			-51.433 c	lBm		ept Span ro Span	
-10.0								Fu	ll Span	
-20.0						DL1 -28.0	00 dBm	Start Free 5.84500	२ 0000 GHz	
-30.0								Stop Fred 5.86500	। 0000 GHz	
-50.0	and the second second second	torne there there and server a	and the second states of the	underland and the state of the			1	AUT	O TUNE	
-60.0								CF Step 2.00000	0 MHz	
-70.0								Aut Ma		
-80.0								Freq Offs 0 Hz	et	
Start 5.84500 0 #Res BW 1.0 N			#Video BW 3.0 MI	Hz	#Swe	Stop 5.86500 ep 5.00 s (100		X Axis So Log Lin	9	Local
5	? 🗆 ۲	Mar 18, 2025 2:54:03 AM					X	Signal Tra (Span Zoo		

# LTE(CV2X)\_10 M\_BandEdge(3)\_Low\_QPSK\_1RB





### LTE(CV2X)\_10 M\_BandEdge\_High\_QPSK\_FullRB





Spectrum Analyzer 1 Swept SA	• +				SCPI	<b>‡</b>	Frequency	▼ \$\frac{1}{25}\$
KEYSIGHT Input: R RL +++ Couplin Align: A	g DC Corr CCorr	#Atten: 20 dB Preamp: Off ) µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Trig: Free Run	r (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A A	Center Fre 5.9280000		Settings
1 Spectrum Scale/Div 10 dB		Ref LvI Offset 25.4 Ref Level 0.00 dBn		Mkr1 5	.926 000 GHz -25.093 dBm		00 MHz ot Span Span	
-10.0					DL1 -13.00 dBm	Full	Span	
-20.0 1					RMS	Start Freq 5.9260000	00 GHz	
-40.0						Stop Freq 5.9300000	00 GHz	
-50.0						AUTO	TUNE	
-60.0						CF Step 400.000 kl	Hz	
-80.0						Auto Man		
-90.0						Freq Offset 0 Hz		
Start 5.926000 GHz #Res BW 1.0 MHz		#Video BW 3.0 M	Hz		Stop 5.930000 GHz ∼5.03 s (1001 pts)	X Axis Sca Log Lin	e	Local
5	Mar 18, 2025 3:12:51 AM					Signal Trac (Span Zoom		

# LTE(CV2X)\_10 M\_BandEdge(1)\_High\_QPSK\_FullRB







### LTE(CV2X)\_10 M\_BandEdge(2)\_High\_QPSK\_FullRB





Spectrum Analyzer 1 V +						SCPI	\$	Frequency	· • 💥
	Coupling: DC Corr Corr Preamp: Off Gate: Off Align: Auto Freq Ref. Int (S) NFE: Adaptive Preamp: Off Gate: Off WP ath: Standard IF Gain: Low Sig Track: Off			#Avg Type: Pow Trig: Free Run	ver (RMS <mark>12 3 4 5 6) A WW WW W</mark> A A A A A A A	Center Fred 5.9650000 Span		Settings	
1 Spectrum Scale/Div 10 dB Log	•		ef LvI Offset 25.40 ef Level 0.00 dBm		Mkr	5.973 80 GHz -52.117 dBm	20.000000	t Span	
-10.0							Full S	Span	
-20.0						DL1 -28.00 dBm	Start Freq 5.9550000	00 GHz	
-40.0							Stop Freq 5.9750000	00 GHz	
-50.0						•1. <sub>MS</sub>	AUTO	TUNE	
-60.0							CF Step 2.000000 M	ИНz	
-70.0							Auto Man		
-90.0							Freq Offset 0 Hz		Lassi
Start 5.95500 GI #Res BW 1.0 MI			#Video BW 3.0 MI	Hz	#Swe	Stop 5.97500 GHz ep 5.00 s (1001 pts)	X Axis Scale Log Lin	e	Local
<b>エ</b> ッ(	2 🗌 ?	Mar 18, 2025 3:13:38 AM	ÐA				Signal Traci (Span Zoom)		

## LTE(CV2X)\_10 M\_BandEdge(3)\_High\_QPSK\_FullRB







### LTE(CV2X)\_10 M\_BandEdge\_High\_QPSK\_1RB





Spectrum Analy Swept SA	zer 1 , 🕇					SCPI	Sall I	requency v	22
KEYSIGHT RL ↔	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: P Trig: Free Ru	rower (RMS <mark>123456</mark> In AWWWWW A A A A A A	5.928000000	Settin	igs
1 Spectrum Scale/Div 10 d	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr	1 5.926 000 GHz -21.864 dBm	1.000000000	Span	
-10.0						DL1 -13.00 dBm	Full Sp	an	
-20.0							Start Freq 5.92600000	GHz	
-40.0						RMS	Stop Freq 5.930000000	GHz	
-50.0							AUTO T	JNE	
-60.0							CF Step 400.000 kHz		
-80.0							Auto Man		
-90.0							Freq Offset 0 Hz		Local
Start 5.926000 #Res BW 1.0 N			#Video BW 3.0 M	Hz	#Sw	Stop 5.930000 GH eep ~5.03 s (1001 pts	X Axis Scale Log Lin		
<b>ま</b> り		Mar 18, 2025 3:14:55 AM	$\square$				Signal Track (Span Zoom)		

## LTE(CV2X)\_10 M\_BandEdge(1)\_High\_QPSK\_1RB





Spectrum Analy Swept SA	zer 1					SCPI	Frequenc	y 1 👫
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	r (RMS <mark>1</mark> 23456 A <del>WWWWW</del> A A A A A A	Center Frequency 5.942500000 GHz	Settings
1 Spectrum Scale/Div 10 dl Log	в		Ref LvI Offset 25.4 Ref Level 0.00 dBn		Mkr1 5	.930 000 GHz -38.812 dBm	Span 25.0000000 MHz Swept Span Zero Span	
-10.0						DL1 -16.00 dBm	Full Span	
-30.0							5.930000000 GHz Stop Freq 5.955000000 GHz	
-50.0					alan yang menantak yang menang kang me	RMS	AUTO TUNE	
-60.0							CF Step 2.500000 MHz Auto Man	
-90.0							Freq Offset 0 Hz	Local
Start 5.93000 G #Res BW 1.0 M			#Video BW 3.0 M	Hz	#Sweep	Stop 5.95500 GHz p 5.00 s (1001 pts)	X Axis Scale Log Lin	Looar
150		Mar 18, 2025 3:15:18 AM	$\square$				Signal Track (Span Zoom)	

## LTE(CV2X)\_10 M\_BandEdge(2)\_High\_QPSK\_1RB





Spectrum Analy Swept SA							CPI 🗘	Frequency	
KEYSIGHT RL +++	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Trig: Free Run	er (RMS <mark>1234</mark> A WW WY A A A A A	VW 5.9650	Frequency 000000 GHz	Settings
1 Spectrum	*	R	Ref LvI Offset 25.40	dB	Mkr1	5.955 12 G		00000 MHz	
Scale/Div 10 d	В	F	Ref Level 0.00 dBm			-50.513 dE		Swept Span Zero Span	
-10.0								Full Span	
-20.0						DL1 -28.00 d	Start F	req 000000 GHz	
-40.0							Stop F 5.9750	req 000000 GHz	
-50.0		and and for the state of the st	man forman and a second as the second second	1			MS AI		
-60.0							CF Ste 2.0000	:p 000 MHz	
-70.0								Auto Man	
-90.0							Freq O 0 Hz	ffset	
Start 5.95500 ( #Res BW 1.0 N			#Video BW 3.0 Mł	Hz	#Swee	Stop 5.97500 G ep 5.00 s (1001 p		Scale Log Lin	Local
<b>1</b>	┍┙ 🔲 ?	Mar 18, 2025 3:15:41 AM	$\square$					Track (oom)	

## LTE(CV2X)\_10 M\_BandEdge(3)\_High\_QPSK\_1RB





Spectrum Analy Swept SA	yzer 1 🕴 🕂					SCPI	<b>Ö</b> F	requency 🔻	121× 121×
KEYSIGHT	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: I Trig: Free R	Power (RMS 1 2 3 4 5 6 a wwwww a a a a a a	Center Freque 5.89500000	ocu	ings
1 Spectrum Scale/Div 10 d Log	r IB		Ref LvI Offset 25.44 Ref Level 25.00 dB		Mki	1 5.894 848 GHz -39.035 dBm	1.00000000	Span	
15.0							Full Sp	an	
-5.00						RMS	Start Freq 5.893000000	GHz	
-15.0						DL1-16.00 dBm	Stop Freq 5.897000000	GHz	
-25.0			1				AUTO TI	JNE	
-45.0							400.000 kHz		
-55.0							Man Freq Offset		
-65.0 Center 5.89500 #Res BW 1001			#Video BW 300 k	Hz	#Sv	Span 4.000 MHz veep ~5.03 s (1001 pts)	0 Hz X Axis Scale Log Lin		Local
<u>ר</u>		Mar 18, 2025 3:23:59 AM					Signal Track (Span Zoom)		

## LTE(CV2X)\_20 M\_BandEdge\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA							SCPI	\$	Frequency	1 22
KEYSIGHT RL ↔	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	A 4	2 3 4 <b>5 6</b> wwwww A A A A A	5.89200	Frequency 00000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		tef LvI Offset 25.40 tef Level 0.00 dBm		Mkr1	5.894 0 -29.28	00 GHz 30 dBm	SI	0000 MHz wept Span ero Span	
-10.0						DE	1 -13.00 dBm	F	ull Span	
-20.0								Start Fre 5.89000	eq 00000 GHz	
-30.0								Stop Fre 5.89400	eq 00000 GHz	
-50.0								AU	TO TUNE	
-60.0								CF Step 400.000		
-80.0								Freq Off	an	
-90.0								0 Hz		Local
Start 5.890000 #Res BW 1.0 N			#Video BW 3.0 MH	Hz	#Swe	Stop 5.89 eep ~5.03 s	4000 GHz (1001 pts)	X Axis S Lo Li	og 🛛	
<b>エ</b>	? 🗖 ۲	Mar 18, 2025 3:24:23 AM	$\square$				X	Signal T (Span Zo		

# LTE(CV2X)\_20 M\_BandEdge(1)\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	vzer 1 🔻 🕇						SCPI	\$	Frequency	/ - / 器
KEYSIGHT RL +→-•	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off μW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	A ₩	3 4 5 6 WWWW A A A A	5.87750	requency 0000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr1	5.888 52 -31.25		Sw	000 MHz vept Span ro Span	
10.0						DL1	-16.00 dBm	Fi	ıll Span	
30.0							↓1 . <sub>MS</sub>	Start Fre 5.86500	q 0000 GHz	
40.0								Stop Fre 5.89000	q 0000 GHz	
50.0								1000		
70.0								CF Step 2.50000 Au	0 MHz	
80.0								Ma Freq Offs	in	
90.0								0 Hz X Axis S	cale	Local
Start 5.86500 G Res BW 1.0 N			#Video BW 3.0 M	HZ	#Sw	Stop 5.89 veep 5.00 s (1		Lo Lir		
<b>ま</b> し		Mar 18, 2025 3:24:46 AM					X	Signal Tr (Span Zor		

# LTE(CV2X)\_20 M\_BandEdge(2)\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	/zer 1 • +						SCPI	\$	Frequency	· • 😤
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Trig: Free Run	ver (RMS <mark>123</mark> A <del>WW</del> A A A	www	5.85500	requency 00000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr	1 5.864 98 -49.023 (		Sv	0000 MHz vept Span ero Span	
-10.0								Fi	ull Span	
-20.0						DL1 -28.	00 dBm	Start Fre 5.84500	eq 00000 GHz	
-30.0							1	Stop Fre 5.86500	9 00000 GHz	
-50.0		887007-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	****	a phaping a state of the state		and all and a second	R	AU		
-60.0								CF Step 2.00000		
-70.0								Au Ma		
-90.0								Freq Off 0 Hz	set	
Start 5.84500 ( #Res BW 1.0 N			#Video BW 3.0 Mł	Hz	#Swe	Stop 5.8650 ep 5.00 s (100	0 GHz 1 pts)	X Axis S Lc Li	g	Local
5	? 🗖 🖒	Mar 18, 2025 3:25:09 AM	$\square$				X	Signal Ti (Span Zo		

# LTE(CV2X)\_20 M\_BandEdge(3)\_Low\_QPSK\_FullRB





Spectrum Analy Swept SA	zer 1 , 🕂					SCPI	\$	Frequency	· * 🔆
KEYSIGHT RL +++	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	ver (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Freque		Settings
1 Spectrum Scale/Div 10 d Log	B		ef LvI Offset 25.40 ef Level 25.00 dB		Mkr1	5.894 988 GHz -46.155 dBm	1.00000000	Span	
15.0						$\frown$	Full S	pan	
-5.00						RMS	Start Freq 5.89300000	0 GHz	
-15.0						DL 1 - 16.00 xBm	Stop Freq 5.89700000	0 GHz	
-25.0							AUTO	TUNE	
-35.0			1_				CF Step 400.000 kH	z	
-55.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ייינים איניראט אינייאט איניין איניין אינייאט אינייט אינייט אינייט אינייט אינייט אינייט אינייט אינייט אינייט אינ	and a stand and a stand and a stand and a stand				Auto Man		
-65.0							Freq Offset 0 Hz		Level
Center 5.89500 #Res BW 100 k			#Video BW 300 kl	Hz	#Swee	Span 4.000 MHz p ~5.03 s (1001 pts)	X Axis Scale Log Lin		Local
<b>ま</b> し	~ 🗌 ?	Mar 18, 2025 3:25:46 AM	ÐA				Signal Track (Span Zoom)		

## LTE(CV2X)\_20 M\_BandEdge\_Low\_QPSK\_1RB





Spectrum Analy Swept SA	· · · · ·						SCPI	\$	Frequency	- <b>*</b> 🔆
KEYSIGHT RL +→+ ™	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run		WW W	Center Fr 5.892000 Span	equency )000 GHz	Settings
1 Spectrum		F	Ref LvI Offset 25.40	) dB	Mkr1	5.893 984		4.00000	000 MHz	
Scale/Div 10 d	В	F	Ref Level 0.00 dBm			-40.654	dBm		ept Span o Span	
-10.0						UL1-13	00 dBm	Fu	ll Span	
-20.0								Start Free 5.89000	1 0000 GHz	
-30.0						and a second strange and a second strange and a second strange at the second strange at the second strange at t	R	Stop Fred 5.894000	1 0000 GHz	
-50.0								AUT	O TUNE	
-60.0								CF Step 400.000	kHz	
-70.0								Aut Ma		
-80.0								Freq Offs 0 Hz	et	
Start 5.890000 #Res BW 1.0 N			#Video BW 3.0 MI	Hz	#Swee	Stop 5.89400 p ~5.03 s (100	0 GHz )1 pts)	X Axis Sc Log Lin	1	Local
5	? 🗆 ۲	Mar 18, 2025 3:26:09 AM					X	Signal Tra (Span Zoo		

# LTE(CV2X)\_20 M\_BandEdge(1)\_Low\_QPSK\_1RB





Spectrum Anal Swept SA	yzer 1 , 🕂					SCPI	Frequen	cy 🔹 🔛
	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	rer (RMS <mark>1</mark> 23456 A WW WW W A A A A A A	Center Frequency 5.877500000 GHz	Settings
1 Spectrum Scale/Div 10 c Log	B		Ref LvI Offset 25.4 Ref Level 0.00 dBm		Mkr1	5.879 325 GHz -41.495 dBm	20.0000000 1111 12	
-10.0						DL1 -16.00 dBm	Full Span Start Freg	
-30.0				<b>↓</b> 1			5.865000000 GHz Stop Freq	
-50.0	uru fasud segrain felalasan dar	apa ay ang				RMS	5.89000000 GHz	
-60.0							CF Step 2.500000 MHz	
-80.0							Man Freq Offset 0 Hz	
Start 5.86500 ( #Res BW 1.0 M			#Video BW 3.0 M	Hz	#Swe	Stop 5.89000 GHz ep 5.00 s (1001 pts)	X Axis Scale	Local
1		Mar 18, 2025 3:26:32 AM	$\Box$				Signal Track (Span Zoom)	

# LTE(CV2X)\_20 M\_BandEdge(2)\_Low\_QPSK\_1RB





Spectrum Analy Swept SA	/zer 1 +					SC		Frequency	- *   尜
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Trig: Free Run	ver (RMS 1 2 3 4 5 A WW WW A A A A A A	5.8550	Frequency 000000 GHz	Settings
1 Spectrum	×.	F	Ref LvI Offset 25.40	) dB	Mkr	1 5.858 08 GH	20.000	00000 MHz	
Scale/Div 10 d	B	F	Ref Level 0.00 dBm			-51.177 dB		wept Span ero Span	
-10.0							, I	-ull Span	
-20.0						QL1 -28.00 d	Start Fr 5.8450	eq 000000 GHz	
-30.0							Stop Fr	eq 000000 GHz	
-50.0		Ander in Aprophysics, in a surgering of		1	and the second	RI		JTO TUNE	
-60.0							CF Step	p 100 MHz	
-70.0								uto 1an	
-80.0							Freq Of 0 Hz	fset	
Start 5.84500 ( #Res BW 1.0 N			#Video BW 3.0 MI	Hz	#Swe	Stop 5.86500 G eep 5.00 s (1001 p	Hz X Axis S	Scale .og .in	Local
<b>1</b> 5	? 🗆	Mar 18, 2025 3:26:56 AM					Signal 1 (Span Zi	Track	

# LTE(CV2X)\_20 M\_BandEdge(3)\_Low\_QPSK\_1RB





### LTE(CV2X)\_20 M\_BandEdge\_High\_QPSK\_FullRB





Spectrum Analy Swept SA	rzer 1 🔹 🕂						SCPI	Ö	Frequency	- * 絵
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	n A¥	2 3 4 <b>5</b> 6 WWWWW A A A A A	5.928	Frequency 000000 GHz	Settings
1 Spectrum Scale/Div 10 d Log	T B		Ref LvI Offset 25.4 Ref Level 0.00 dBm		Mkr	1 5.926 00 -28.20	08 GHz 1 dBm		00000 MHz Swept Span Zero Span	
-10.0						DL	-13.00 dBm		Full Span	
-20.0 - 1	· · · · · · · · · · · · · · · · · · ·						RMS	Start F 5.926	req 000000 GHz	
-40.0								Stop F 5.930	req 000000 GHz	
-50.0								A	UTO TUNE	
-60.0								2010/02/02/2	00 kHz	
-80.0									Auto Man Iffset	
-90.0								0 Hz X Axis		Local
Start 5.926000 #Res BW 1.0 N			#Video BW 3.0 M	Hz	#Swe	Stop 5.93 eep ~5.03 s (			scale ₋og l ₋in	
1		Mar 18, 2025 4:00:48 AM							Track oom)	

## LTE(CV2X)\_20 M\_BandEdge(1)\_High\_QPSK\_FullRB





Swept SA KEYSIGHT RL +++	Input. RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	<b>1 2 3 4 5 6</b> A WW WW W A A A A A A A	PROSPECTATION OF THE OWNER.	requency 0000 GHz	Settings
Spectrum cale/Div 10 d	¥ B		Ref LvI Offset 25.40 Ref Level 0.00 dBm		Mkr1 5.930 -30.	000 GHz 009 dBm	25.0000	000 MHz ept Span ro Span	
0.0						DL1 -16.00 dBm	Fu	ll Span	
0.0							Start Free 5.93000	9 0000 GHz	
0.0						RMS	Stop Free 5.95500	9 0000 GHz	
0.0						and a second and the second	10000	O TUNE	
0.0							CF Step 2.50000	20.0000100m1	
0.0							Aut Ma	n	
0.0							Freq Offs 0 Hz		Loca
art 5.93000 0 Res BW 1.0 N			#Video BW 3.0 MI	Hz	Stop #Sweep 5.00	5.95500 GHz s (1001 pts)	X Axis So Lo Lin	g	2000
15		Mar 18, 2025 4:01:11 AM	$\square$				Signal Tra	ack	

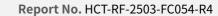
## LTE(CV2X)\_20 M\_BandEdge(2)\_High\_QPSK\_FullRB







### LTE(CV2X)\_20 M\_BandEdge(3)\_High\_QPSK\_FullRB







### LTE(CV2X)\_20 M\_BandEdge\_High\_QPSK\_1RB





Spectrum Analyze Swept SA						SC		Frequency	- * 影
	oupling: DC C lign: Auto Fi	Corr CCorr I	#Atten: 20 dB Preamp: Off JW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Trig: Free Run	r (RMS <mark>12345</mark> AWWWW AAAAA	5.9280	Frequency 00000 GHz	Settings
1 Spectrum Scale/Div 10 dB Log			f LvI Offset 25.40 f Level 0.00 dBm		Mkr1 5	.926 000 GH -39.820 dB	z 4.0000	0000 MHz wept Span ero Span	
-10.0						DE1 -13.00 dt		ull Span	
-20.0								00000 GHz	
-40.0				T <sup>an</sup> (D) The DE DATA State of the State of		RN	Stop Fre	eq 00000 GHz	
-50.0							CF Step		
-70.0								0 kHz uto an	
-80.0							Freq Of 0 Hz	fset	
Start 5.926000 G #Res BW 1.0 MH		#	Video BW 3.0 MI	Hz		Stop 5.930000 G ~5.03 s (1001 p		og	Local
<b>1</b> 5 6	* 🗖 ? '	Mar 18, 2025 4:02:40 AM				¥ = ×	Signal 1 (Span Zo		

## LTE(CV2X)\_20 M\_BandEdge(1)\_High\_QPSK\_1RB





Spectrum Analy Swept SA KEYSIGHT		Input Z: 50 Ω	#Atten: 20 dB	PNO: Best Wide	#Avg Type: Power (RM	SCPI	التعكر	equency 🔻 🔛
81	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	Gate: Off	Trig: Free Run	A WW WW W A A A A A A A	Center Frequer	
Spectrum	B		Ref LvI Offset 25.40 Ref Level 0.00 dBm			0 000 GHz 2.131 dBm	Span 25.0000000 M Swept Sp	ban
10.0						DL1 -16.00 dBm	Zero Spa Full Spa	
30.0							Start Freq 5.930000000 Stop Freq	GHz
40.0 50.0	······			- 10000 cm \$10000000 cm \$	and the second	RMS	5.955000000 AUTO TU	
50.0 70.0							CF Step 2.500000 MHz	
30.0							Auto Man Freq Offset	
90.0 tart 5.93000 G	iHz		#Video BW 3.0 M	Hz	Sto	p 5.95500 GHz	0 Hz X Axis Scale Log	Local
#Res BW 1.0 M		Mar 18, 2025 4:03:03 AM	ÐA		#Sweep 5.0	00 s (1001 pts)	Log Lin Signal Track (Span Zoom)	

## LTE(CV2X)\_20 M\_BandEdge(2)\_High\_QPSK\_1RB







### LTE(CV2X)\_20 M\_BandEdge(3)\_High\_QPSK\_1RB



## **13. ANNEX A\_ TEST SETUP PHOTO**

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

No.	Description
1	HCT-RF-2503-FC054-P