# Appendix B: Test Data for E-UTRA Band 4

## Product Name: PERSONAL GPS TRACKER **Trade Mark: Meitrack** Test Model: MT90L

**Environmental Conditions** 

Temperature:	23.7° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	lihuan
Supervised by:	Tom.Liu

### A.1 Conducted Output Power

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)								
Madulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdiet			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	20.97	20.36	PASS			
		1	3	21.18	20.10	PASS			
		1	5	21.06	19.91	PASS			
	LCH	3	0	20.95	20.09	PASS			
		3	2	21.04	20.13	PASS			
		3	3	21.01	20.02	PASS			
		6	0	19.90	18.74	PASS			
		1	0	21.56	21.01	PASS			
		1	3	21.60	21.22	PASS			
QPSK /		1	5	21.78	21.00	PASS			
16QAM	MCH	3	0	21.68	21.10	PASS			
TOQAIN		3	2	21.70	20.84	PASS			
		3	3	21.65	20.79	PASS			
		6	0	20.89	19.63	PASS			
		1	0	20.65	19.18	PASS			
		1	3	20.54	19.14	PASS			
		1	5	20.59	19.08	PASS			
	HCH	3	0	20.76	19.76	PASS			
		3	2	20.76	19.66	PASS			
		3	3	20.84	19.57	PASS			
		6	0	19.81	19.24	PASS			

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	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
wodulation	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	20.96	19.64	PASS			
		1	7	20.94	19.54	PASS			
		1	14	20.79	20.32	PASS			
	LCH	8	0	19.97	18.90	PASS			
		8	4	19.95	18.93	PASS			
		8	7	19.86	18.86	PASS			
		15	0	19.79	18.83	PASS			
		1	0	21.61	21.24	PASS			
		1	7	21.55	20.87	PASS			
QPSK /		1	14	21.69	21.02	PASS			
16QAM	MCH	8	0	20.69	20.04	PASS			
TOQAIM		8	4	20.78	20.05	PASS			
		8	7	20.66	19.85	PASS			
		15	0	20.71	19.67	PASS			
		1	0	20.67	19.92	PASS			
		1	7	20.66	19.87	PASS			
		1	14	20.66	19.63	PASS			
	HCH	8	0	19.81	18.89	PASS			
		8	4	19.69	18.72	PASS			
		8	7	19.74	18.65	PASS			
		15	0	19.67	18.80	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Modulation Channel		figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	20.76	19.91	PASS		
		1	12	20.88	20.02	PASS		
		1	24	21.00	20.25	PASS		
	LCH	12	0	19.84	18.79	PASS		
		12	6	19.80	18.91	PASS		
		12	13	19.76	18.99	PASS		
		25	0	19.63	18.82	PASS		
		1	0	21.71	20.68	PASS		
		1	12	21.56	20.76	PASS		
QPSK /		1	24	21.84	21.15	PASS		
16QAM	MCH	12	0	20.70	19.82	PASS		
TOQAIM		12	6	20.66	19.76	PASS		
		12	13	20.79	19.90	PASS		
		25	0	20.80	19.91	PASS		
		1	0	20.92	19.98	PASS		
		1	12	20.99	19.53	PASS		
		1	24	20.77	19.14	PASS		
	HCH	12	0	19.98	18.96	PASS		
		12	6	19.94	18.97	PASS		
		12	13	19.72	18.84	PASS		
		25	0	19.92	19.11	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
wodulation	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	20.84	20.09	PASS			
		1	24	21.00	20.61	PASS			
		1	49	20.94	20.45	PASS			
	LCH	25	0	19.74	18.68	PASS			
		25	12	19.93	18.91	PASS			
		25	25	19.90	18.85	PASS			
		50	0	19.79	18.84	PASS			
		1	0	21.25	21.02	PASS			
		1	24	21.49	21.15	PASS			
QPSK /		1	49	21.57	20.85	PASS			
16QAM	MCH	25	0	20.61	19.54	PASS			
IOQAIVI		25	12	20.59	19.59	PASS			
		25	25	20.70	19.73	PASS			
		50	0	20.63	19.70	PASS			
		1	0	21.32	20.32	PASS			
		1	24	21.42	20.90	PASS			
		1	49	20.77	20.19	PASS			
	HCH	25	0	19.87	19.11	PASS			
		25	12	20.02	19.17	PASS			
		25	25	19.89	19.08	PASS			
		50	0	19.81	18.89	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	RB Cont	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	20.77	19.93	PASS		
		1	37	21.04	20.78	PASS		
		1	74	21.01	20.81	PASS		
	LCH	37	0	19.79	18.83	PASS		
		37	18	19.97	18.84	PASS		
		37	38	19.88	18.90	PASS		
		75	0	19.73	18.78	PASS		
		1	0	20.89	20.85	PASS		
		1	37	21.52	20.89	PASS		
		1	74	21.51	20.98	PASS		
QPSK / 16QAM	MCH	37	0	20.41	19.47	PASS		
TOQAIN		37	18	20.58	19.52	PASS		
		37	38	20.88	19.68	PASS		
		75	0	20.63	19.63	PASS		
		1	0	21.66	21.05	PASS		
		1	37	21.34	20.97	PASS		
		1	74	20.79	20.58	PASS		
	HCH	37	0	20.18	19.27	PASS		
		37	18	20.13	19.20	PASS		
		37	38	19.98	19.01	PASS		
		75	0	19.89	19.05	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)							
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict		
wouldtion	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	20.58	19.59	PASS		
		1	49	21.30	20.09	PASS		
		1	99	21.16	19.73	PASS		
	LCH	50	0	19.79	18.68	PASS		
		50	25	19.99	19.02	PASS		
		50	50	19.92	18.96	PASS		
		100	0	19.92	18.87	PASS		
		1	0	20.73	19.58	PASS		
		1	49	21.33	19.93	PASS		
QPSK /		1	99	21.22	19.69	PASS		
16QAM	MCH	50	0	20.37	19.23	PASS		
TOQAIM		50	25	20.60	19.44	PASS		
		50	50	20.71	19.72	PASS		
		100	0	20.50	19.48	PASS		
		1	0	21.93	20.70	PASS		
		1	49	21.56	20.11	PASS		
		1	99	21.19	19.82	PASS		
	HCH	50	0	20.61	19.62	PASS		
		50	25	20.44	19.44	PASS		
		50	50	20.08	19.22	PASS		
		100	0	20.41	19.40	PASS		

### A.2 Peak-to-Average Ratio

	Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	verdict				
	LCH	5.19	<13	PASS				
QPSK	MCH	5.01	<13	PASS				
	НСН	4.33	<13	PASS				
	LCH	6.04	<13	PASS				
16QAM	MCH	5.92	<13	PASS				
	НСН	5.21	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
wouldtion	Channel	[dB]	[dB]	Verdict				
	LCH	5.22	<13	PASS				
QPSK	MCH	5.12	<13	PASS				
	НСН	4.74	<13	PASS				
	LCH	6.18	<13	PASS				
16QAM	MCH	6.02	<13	PASS				
	НСН	5.55	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Channel	[dB]	[dB]	Verdict				
	LCH	5.32	<13	PASS				
QPSK	MCH	5.13	<13	PASS				
	НСН	4.81	<13	PASS				
	LCH	6.12	<13	PASS				
16QAM	MCH	5.93	<13	PASS				
	НСН	5.68	<13	PASS				

	Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
wouldtion	Channel	[dB]	[dB]	Verdict				
	LCH	5.24	<13	PASS				
QPSK	MCH	5.11	<13	PASS				
	НСН	5.07	<13	PASS				
	LCH	6.07	<13	PASS				
16QAM	MCH	5.89	<13	PASS				
	НСН	5.93	<13	PASS				

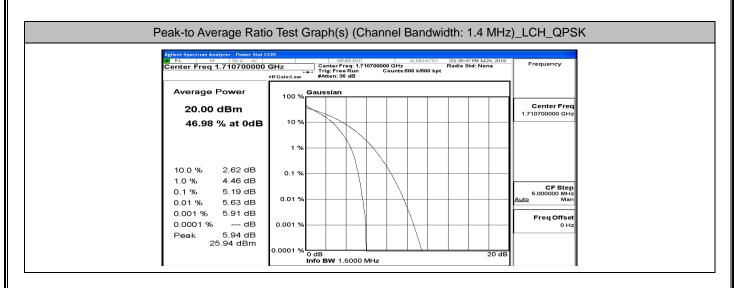
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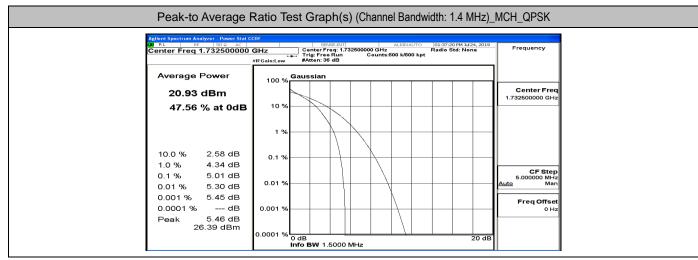
Report No.: LCS190709015AEC

	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
wouldtion	Channel	[dB]	[dB]	Verdict			
	LCH	4.95	<13	PASS			
QPSK	MCH	4.99	<13	PASS			
	HCH	5	<13	PASS			
	LCH	6.25	<13	PASS			
16QAM	MCH	6.19	<13	PASS			
	HCH	6.33	<13	PASS			

	Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)								
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict					
		[dB]	[dB]						
	LCH	5.63	<13	PASS					
QPSK	MCH	5.67	<13	PASS					
	HCH	5.82	<13	PASS					
	LCH	6.75	<13	PASS					
16QAM	MCH	6.78	<13	PASS					
	НСН	6.81	<13	PASS					

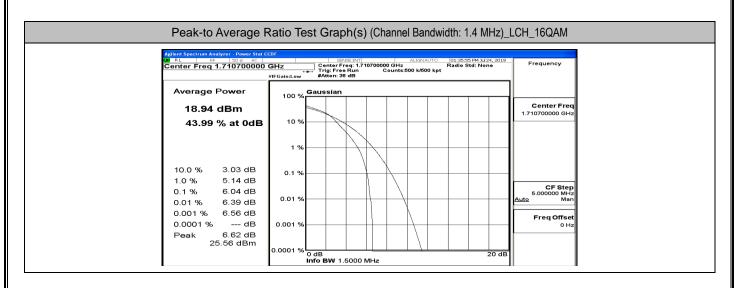
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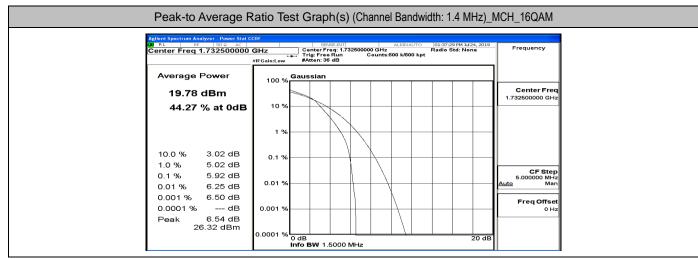




Center Freq 1.754300000 (	וד SENSE:INT ALIGNAUTO 01:38:50 PM JJ/24, 2019 Hz Center Freq: 1.754300000 GHz Radio Std: None Frequency
•	FGain:Low #Atten: 36 dB
Average Power	100 % Gaussian
20.08 dBm	Center Freq 1.754300000 GHz
51.44 % at 0dB	10 %
	1 %
10.0 % 2.41 dB	0.1 %
1.0 % 3.81 dB	CF Step
0.1 % 4.33 dB	0.01 %
0.01 % 4.59 dB 0.001 % 4.66 dB	
0.0001 % dB	0.001 % Freq Offset
Peak 4.71 dB 24.79 dBm	
	0.0001 % 0 dB 20 dB

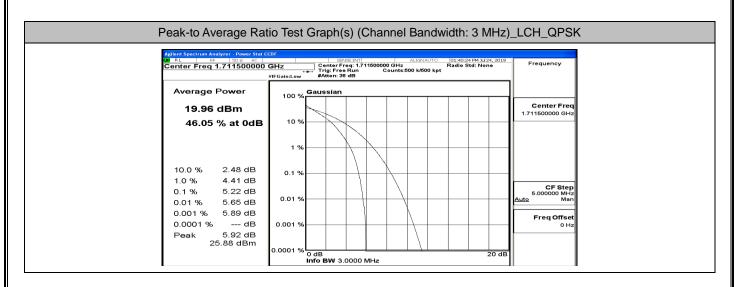
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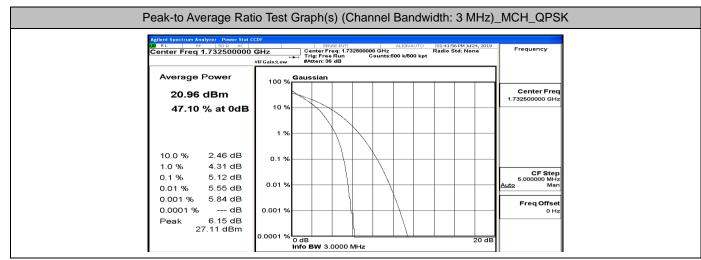




Aglient Spectrum Analyzer - Down Stat ( 0) RL RF 90 0 AC Center Freq 1.754300000	SENSE:INT ALIGNAUTO 01:38:59 PM Jul 24, 2019	HCH_16QAM
Average Power 19.10 dBm 46.87 % at 0dB	100 % Gaussian 10 %	Center Freq 1.754300000 GHz
10.0 % 2.89 dB 1.0 % 4.51 dB 0.1 % 5.21 dB	1 % 0.1 % 0.01 %	CF Step 5.000000 MHz Auto Man
0.01 % 5.48 dB 0.001 % 5.62 dB 0.0001 % dB Peak 5.63 dB 24.73 dBm	0.001 % 0.0001 % 0 dB 0 dB 0 dB 0 dB 0 dB 0 dB 0 dB 0 dB	Freq Offset 0 Hz

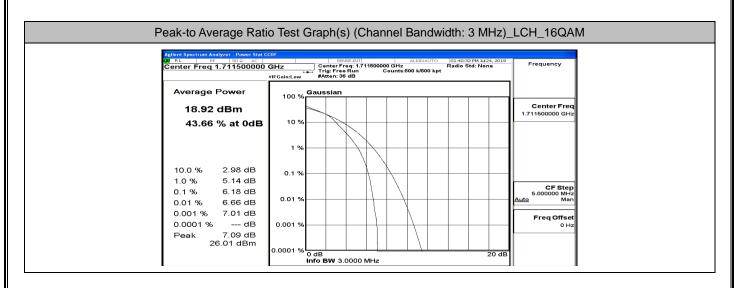
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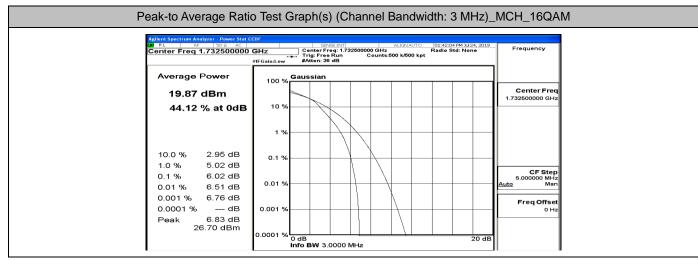




Center Freq 1.753500000	Trig: Free Run Counts:500 k/500 kpt	Frequency
Average Power	#FGain:Low #Atten: 36 dB	
19.98 dBm 48.98 % at 0dB	10 %	Center Freq 1.753500000 GHz
	1 %	
10.0 % 2.37 dB 1.0 % 4.03 dB	0.1 %	CF Step
0.1 % 4.74 dB 0.01 % 5.09 dB	0.01 %	5.000000 MHz Auto Man
0.001 % 5.27 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz

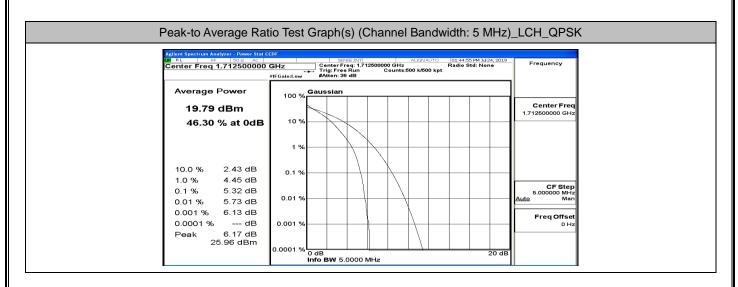
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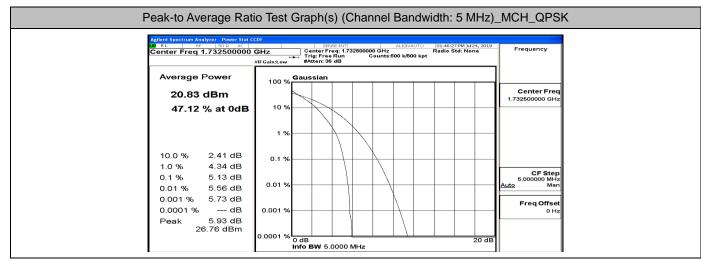




Peak-to Average Katio	SENSE:INT ALIGN AUTO 01:43:33 PM Jul 24, 2019	
•	Trig:FreeRun Counts:500 k/500 kpt     #Aten: 36 dB     Caucelap	
19.04 dBm 45.44 % at 0dB	100 % Center Freq 10 % 10 %	
10.0 % 2.89 dB	1 %	
1.0 % 4.72 dB 0.1 % 5.55 dB 0.01 % 5.95 dB 0.001 % 6.17 dB	0.01 %	
0.0001 % dB Peak 6.50 dB	0.001 % Freq Offset 0 Hz	
20.04 0.011	0.0001 % 0 dB 20 dB info BW 3.0000 MHz	

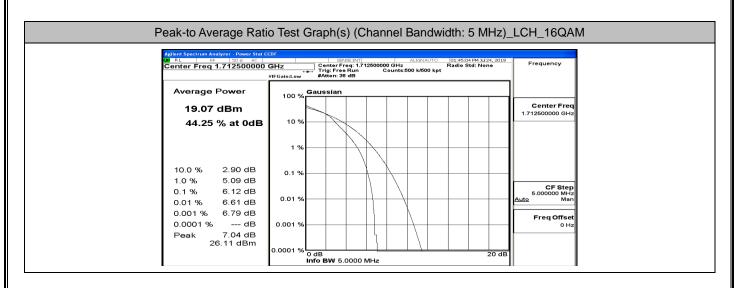
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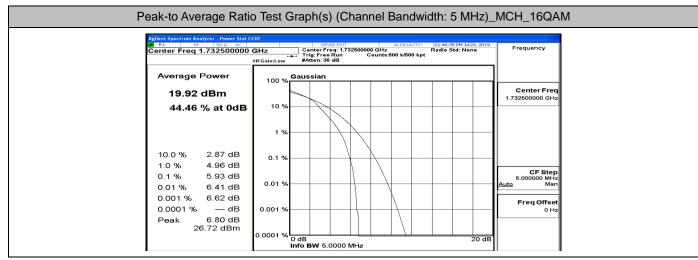




Agilent Spectrum Analyzer - Power Stat CC XIRL RF 50Ω AC Center Freq 1.752500000 ( /	SENSE:INT ALIGN AUTO 01:47:56 PM Jul 24, 2019	Frequency
Average Power 20.12 dBm 48.57 % at 0dB	100 % Gaussian	Center Freq 1.752500000 GHz
10.0 % 2.35 dB 1.0 % 4.13 dB 0.1 % 4.81 dB	1 % 0.1 % 0.01 %	CF Step 5.000000 MHz Auto Man
0.01 % 5.19 dB 0.001 % 5.35 dB 0.0001 % dB Peak 5.59 dB 25.71 dBm	0.001 % 0.0001 % 0 dB 20 dB	Freq Offset 0 Hz

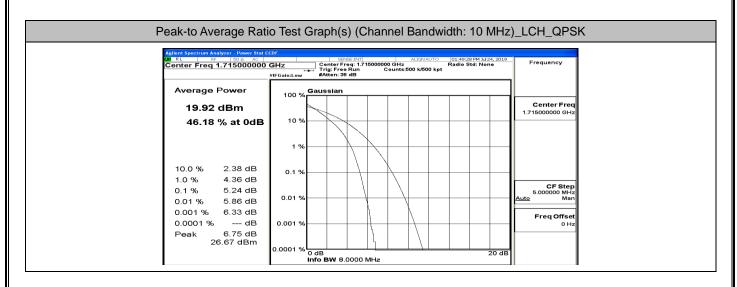
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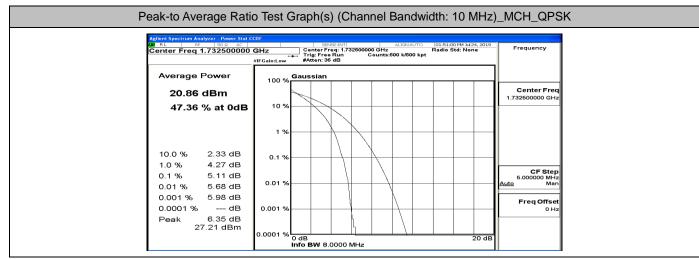




Agilent Spectrum Analyzer - Power Stat C R R RF 50 0 AC C Center Freq 1.752500000	GHz	Center Free Trig: Free R	1: 1.752500	0000 GHz Counts:5	ALIGN AUT	Radi	8:04 PM Ju o Std: No		Frequency
Average Power	#IFGain:Low	#Atten: 36 d Gaussian	В						
19.27 dBm 45.63 % at 0dB	10 %								Center Freq 1.752500000 GHz
	1 %		$\langle \rangle$						
10.0 % 2.86 dB 1.0 % 4.82 dB	0.1 %			$\setminus$					
0.1 % 5.68 dB 0.01 % 6.04 dB	0.01 %		$\rightarrow$	$\rightarrow$					CF Step 5.000000 MHz Auto Man
0.001 % 6.30 dB 0.0001 % dB	0.001 %				$\land$		_		Freq Offset 0 Hz
0.01 % 6.04 dB 0.001 % 6.30 dB 0.0001 % dB Peak 6.63 dB	0.001 % 0.0001 %	0 dB						20 dB	Auto Man Freq Offset

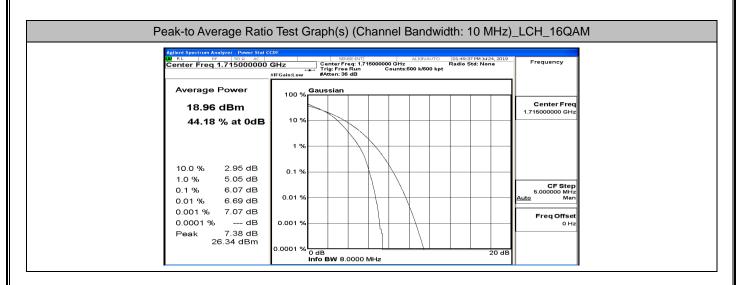
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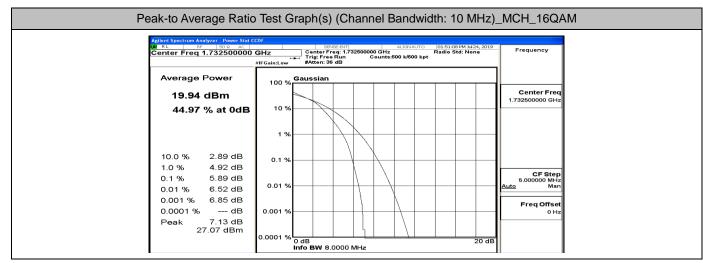




Agilent Spectrum Analyzer - Power Stat C M RL RF 50 0 AC Center Freq 1.750000000	SENSE:INT         ALIGN AUTO         01:52:31 PM 3d/24, 2019           GHz         Center Freq: 1.750000000 GHz         Radio Std: None           Trig: Free Run         Counts:500 k/500 kpt	Frequency
Average Power	#IFGain:Low #Atten: 36 dB	
20.01 dBm 47.75 % at 0dB	10 %	Center Freq 1.750000000 GHz
	1 %	
10.0 % 2.31 dB 1.0 % 4.24 dB	0.1 %	CF Step
0.1 % 5.07 dB 0.01 % 5.57 dB 0.001 % 5.87 dB	0.01 %	5.000 MHz <u>Auto</u> Man
0.0001 % dB Peak 6.00 dB	0.001 %	Freq Offset 0 Hz
26.01 dBm	0.0001 % 0 dB 20 dB	

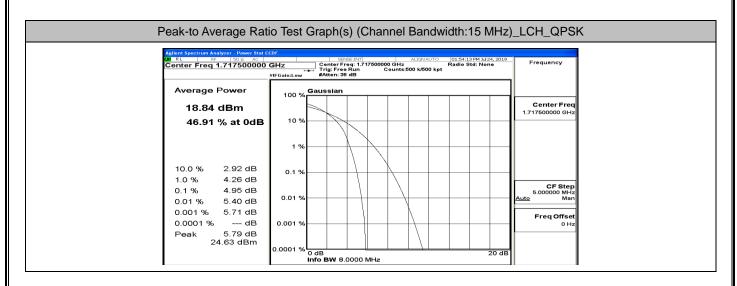
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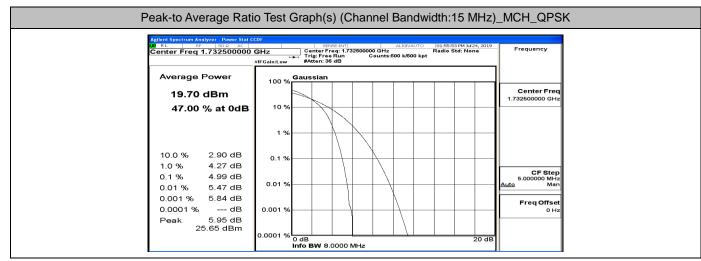




Aglent Spectrum Analyzer - Power Stat C 24 RL RF 50 Q AC Center Freq 1.750000000	SENSE:INT         ALIGN AUTO         01:52:40 PM 3/424, 2019           GHz         Center Freq: 1.750000000 GHz         Radio Std: None           Trig: Free Run         Counts:500 k/500 kpt	- Frequency
Average Power	#FGain:Low #Atten: 36 dB	
19.03 dBm 45.08 % at 0dB	10 %	Center Freq 1.750000000 GHz
	1 %	
10.0 % 2.94 dB 1.0 % 4.98 dB	0.1 %	
0.1 % 5.93 dB 0.01 % 6.52 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 6.84 dB 0.0001 % dB Peak 7.09 dB	0.001 %	Freq Offset 0 Hz
26 12 dBm	0.0001 %	

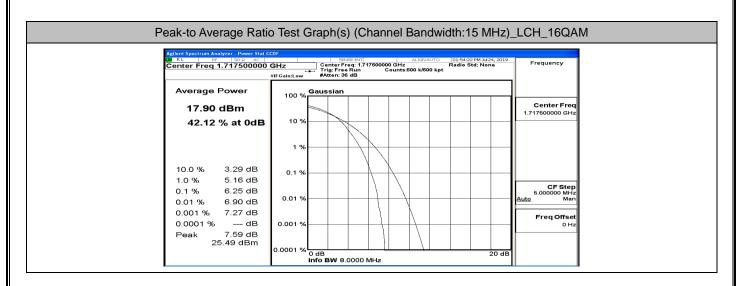
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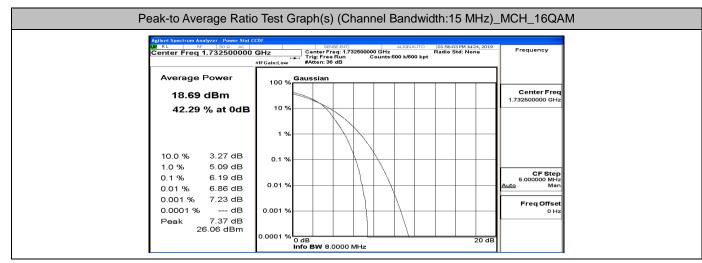




Center Freq 1.747500000	GHz         Center Freq: 1.747500000 GHz         Radio Std: None           Trig: Free Run         Counts:500 k/500 kpt         #Atten: 36 dB	Frequency
Average Power	Gaussian	]
19.01 dBm 46.78 % at 0dB	10 %	Center Freq 1.747500000 GHz
	1 %	-
10.0 % 2.93 dB 1.0 % 4.32 dB	0.1 %	CF Step
0.1 % 5.00 dB 0.01 % 5.45 dB	0.01 %	5.000000 MHz Auto Man
0.001 % 5.71 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz

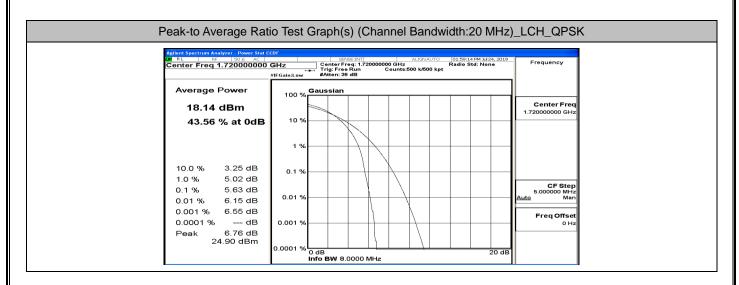
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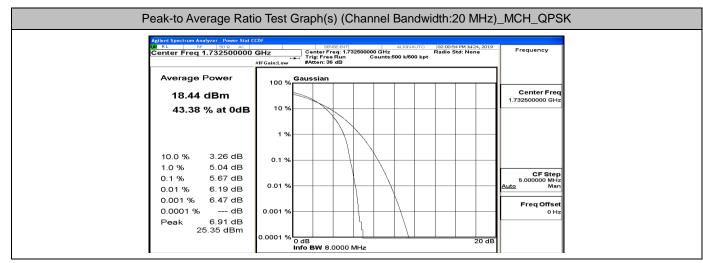




Peak-to Average Ratio	o Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM
M         RL         RF         50.0         AC           Center Freq 1.747500000         C         C         C         C	GHZ Center Frequency GHZ Trig: Free Run Counts:500 k/500 kpt #IFGaint.ow #Atter: 36 dB
Average Power	100 % Gaussian
18.03 dBm 42.04 % at 0dB	10 %
	1 %
10.0 % 3.31 dB 1.0 % 5.18 dB 0.1 % 6.33 dB	0.1 %
0.01 % 6.98 dB 0.001 % 7.39 dB 0.0001 % dB	0.01 % Auto Man FreqOffset 0.001 % OHz
Peak 7.62 dB 25.65 dBm	0.0001 % 0 dB 20 dB 20 dB

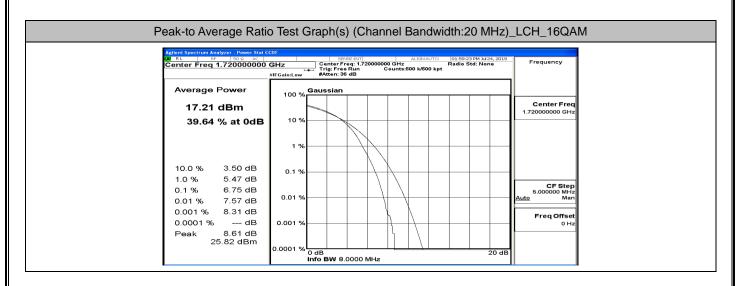
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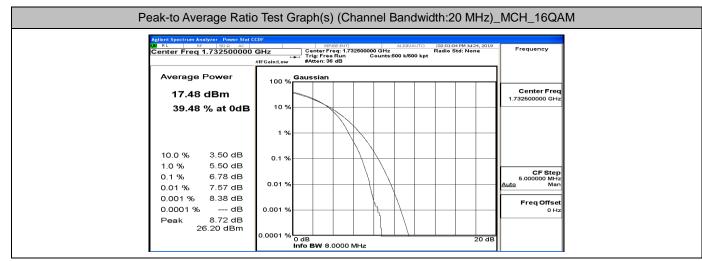




Peak-to Average Ratio	o Test Graph(s) (Channel Bandwidth:20 MHz)	_HCH_QPSK
Center Freq 1.745000000	GHZ Center Freq: 1745000000 GHz Radio Std: None Trig: Free Run Counts:500 k/500 kpt #Atten: 36 dB	Frequency
18.16 dBm 42.98 % at 0dB		Center Freq 1.745000000 GHz
10.0 % 3.26 dB	0.1 %	
1.0 % 5.11 dB 0.1 % 5.82 dB 0.01 % 6.41 dB 0.001 % 6.70 dB	0.01 %	CF Step 5.000000 MHz Man Freq Offset
0.0001 % dB Peak 6.80 dB 24.96 dBm	0.001 %	0 Hz

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<b>02</b> RL   RF   50 Ω AC   Center Freq 1.745000000	Copr         SENSE:INT         ALIGNAUTO         02:02:43 PM 3/424, 2019           GHz         Center Freq: 17.45000000 GHz         Radio Std: None           Trig: Free Run         Counts:500 k/500 k/500         Kon Std: None	Frequency
Average Power	#IFGain:Low #Atten: 36 dB	
17.06 dBm 39.25 % at 0dB	100 % Gaussian 10 %	Center Freq 1.745000000 GHz
	1 %	
10.0 % 3.51 dB 1.0 % 5.59 dB	0.1 %	CF Step
0.1 % 6.81 dB 0.01 % 7.60 dB	0.01 %	5.000000 MHz <u>Auto</u> Man
0.001 % 8.14 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz

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## A.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW Te	est Result (Channel Band	width: 1.4 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
woodiation	Channel	(MHz)	(MHz)	Verdict
	LCH	1.0774	1.241	PASS
QPSK	MCH	1.0758	1.232	PASS
	HCH	1.0801	1.251	PASS
	LCH	1.0820	1.259	PASS
16QAM	MCH	1.0796	1.239	PASS
	НСН	1.0792	1.262	PASS

	EBW & OBW T	& OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict				
wouldtion	Channel	(MHz)	(MHz)	Verdict				
	LCH	2.6845	2.879	PASS				
QPSK	MCH	2.6861	2.898	PASS				
	НСН	2.6847	2.883	PASS				
	LCH	2.6840	2.877	PASS				
16QAM	MCH	2.6813	2.867	PASS				
	НСН	2.6842	2.948	PASS				

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
MODULATION	Granner	(MHz)	(MHz)	Verdict
	LCH	4.4799	4.823	PASS
QPSK	MCH	4.4790	4.811	PASS
	HCH	4.4730	4.821	PASS
	LCH	4.4752	4.786	PASS
16QAM	MCH	4.4652	4.834	PASS
	НСН	4.4778	4.813	PASS

	EBW & OBW Te	W & OBW Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict				
MODUIATION	Channel	(MHz)	(MHz)	verdict				
	LCH 8.9133		9.454	PASS				
QPSK	MCH	8.9201	9.491	PASS				
	HCH 8.9220		9.427	PASS				
	LCH 8.9163		9.442	PASS				
16QAM	MCH	8.9108	9.442	PASS				
	НСН	8.9319	9.350	PASS				

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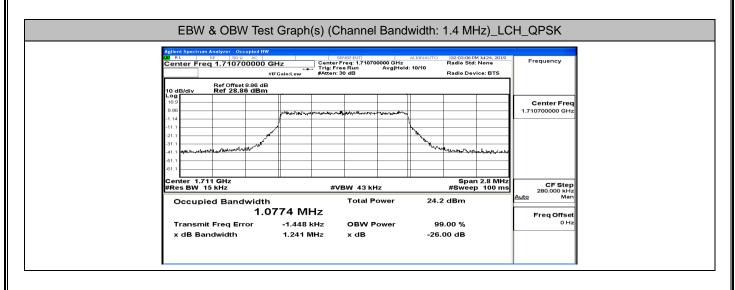
Report No.: LCS190709015AEC

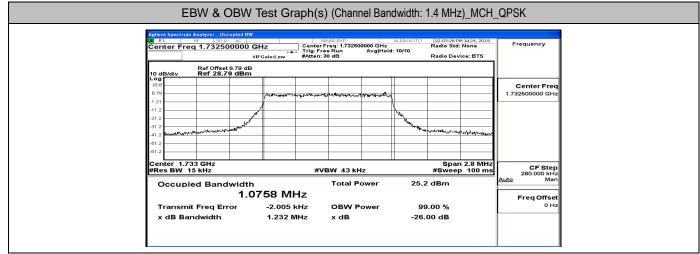
	EBW & OBW Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict			
	LCH	13.351	13.98	PASS			
QPSK	MCH	13.370	14.05	PASS			
	НСН	13.374	14.04	PASS			
	LCH	13.342	13.94	PASS			
16QAM	MCH	13.376	13.96	PASS			
	НСН	13.372	13.99	PASS			

	EBW & OBW Te	est Result (Channel Band	lwidth: 20 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation	onanno	(MHz)	(MHz)	Verdiet
	LCH	17.766	18.51	PASS
QPSK	MCH	17.819	18.58	PASS
	НСН	17.861	18.75	PASS
	LCH	17.784	18.53	PASS
16QAM	MCH	17.848	18.55	PASS
	НСН	17.848	18.67	PASS

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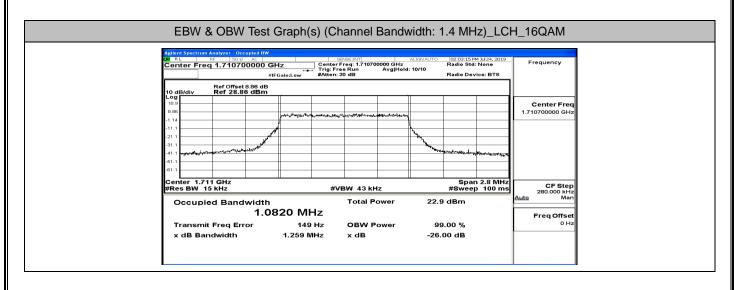


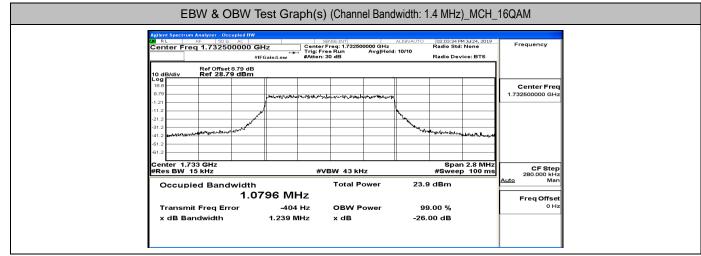


Agitant Spectrum Analyzer - Occupied IW         SEMIEINT         ALIONAUTO         02:03:43 PM 3/24, 2019           Center Freq 1.754300000 GHz         Center Freq 1.754300000 GHz         Center Spectrum 4, 2019         Radio Stdi None           #File Solution         #FileSolution         #Mitten: 30 dB         Argihtold: 10/10         Radio Device: BTS								
Ref Offset 8.79 dl 10 dB/div Ref 28.79 dBn	3	30 dB	Radio Device: BTS	1				
18.8 8.79		John Martin Contract		Center Freq 1.754300000 GHz				
-1.21 -11.2 -21.2 -31.2 prostanting from the product of the produc			Mundae Manual March and March and March	•				
-61.2								
Center 1.754 GHz #Res BW 15 kHz	#V	BW 43 kHz	Span 2.8 MH: #Sweep 100 m					
Occupied Bandwidt 1.	<sup>h</sup> 0801 MHz	Total Power	24.0 dBm	Auto Man Freq Offset				
	-2.436 kHz	OBW Power	99.00 %	0 Hz				

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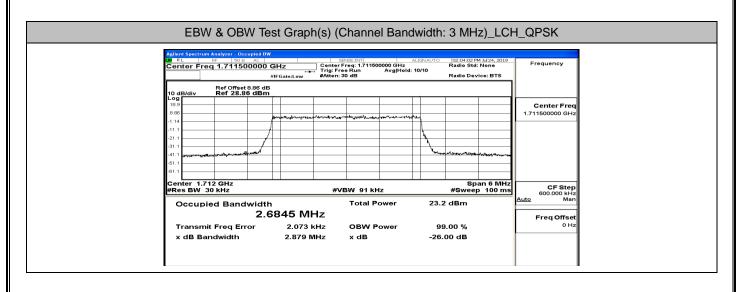


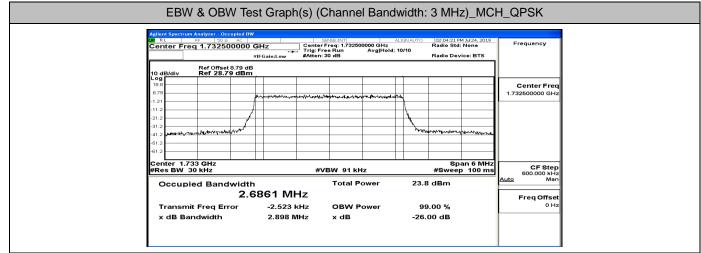


Aglenni Spectrum Analyzer - Occupied DW         SENSE:INT         ALIONAUTO         002:03:02 PM XI24, 2019           Center Freq 1.754300000 GHz         Center Freq: 1.754300000 GHz         Center Freq: 1.76430000 GHz         Radio Std: None								
Ref Offset 8.79 of 10 dB/div Ref 28.79 dB	#IFGain:Low	#Atten: 30	dB			Radio Devi	ice: BTS	
18.8 8.79 -1.21	- Martine -	~~~	an, and					Center Fred 1.754300000 GH:
-11.2 -21.2 -31.2 -31.2 -41.2	sure of the second s				have been for	hashim an an	jebocominger	
-61.2								
Center 1.754 GHz #Res BW 15 kHz		#VB	W 43 kH	z			100 ms	CF Step 280.000 kHz
Occupied Bandwidth 1.0792 MHz			Total Po	ower	23.2	dBm		Auto Man Freg Offset
		Hz	OBW P			.00 %		0 Hz

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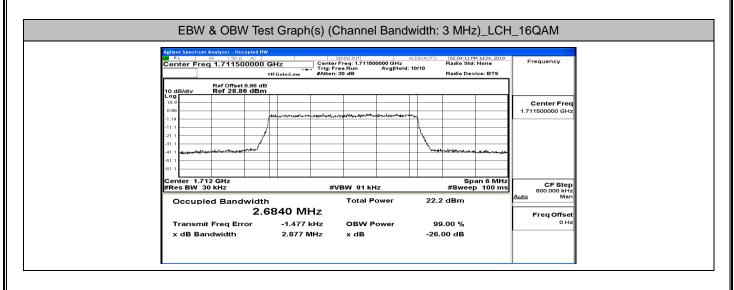


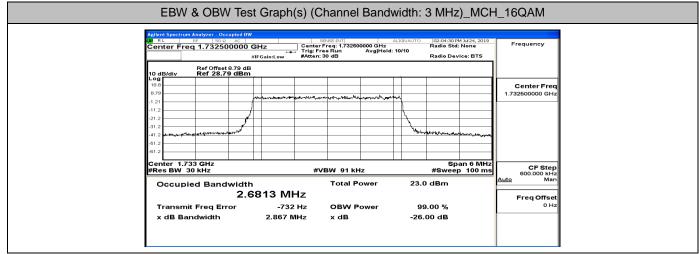


Agilent Spectrum Analyzer - Οccupied BW Δ0 RL RF 50 Ω AC SENSE:INT ALIGNAUTO 02:04:38 PM 3/d 24, 2019									
Center Freq 1.753500000 GHz Center Freq: 1.753500000 GHz Radio Std: None Trig: Free Run Avg Hold: 10/10									
	#IFGain:Low #Atten:	30 dB	Radio Device: BTS	-					
Ref Offset 8.79 d 10 dB/div Ref 28.79 dBr Log			· ·						
18.8				Center Freq					
-1.21	provent and makering	a manufal and the second	h	1.753500000 GH					
-11.2				-					
-21.2 -31.2 manufacture of the second	(		The second second second second	-					
-41.2									
-61.2				-					
Center 1.754 GHz			Span 6 MH						
#Res BW 30 kHz	#\	/BW 91 kHz	#Sweep 100 m						
Occupied Bandwidt	h	Total Power	22.8 dBm	Auto Man					
2.	6847 MHz			Freq Offset					
Transmit Freq Error	-4.839 kHz	OBW Power	99.00 %	0 Hz					
x dB Bandwidth	2.883 MHz	x dB	-26.00 dB						

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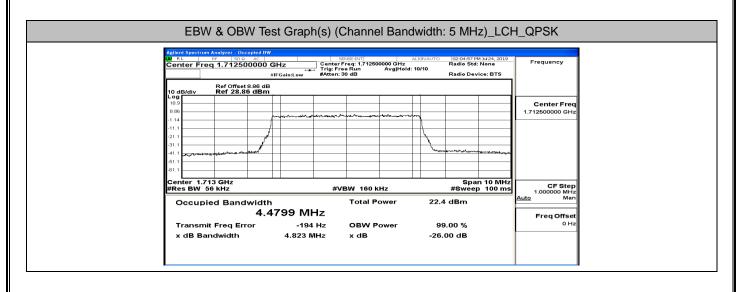


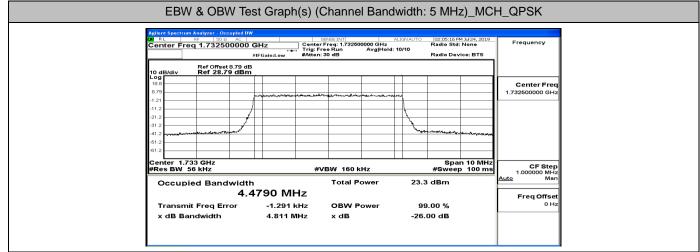


Center Freq 1.753500000 GHz         Center Freq 1.753500000 GHz         Center Freq 1.753500000 GHz         Radio Std: None           #/FF 500         #/FGain:Low         #/Atten: 30 dB         Avg Hold: 10/10         Radio Device: BTS									Frequency
10 dB/div	Ref Offset 8.79 dE Ref 28.79 dBm	3							
18.8 8.79 -1.21		manenter	and with the same	where hat many	~~1.00 m				Center Freq 1.753500000 GHz
-11.2	a feel and the contract of the second					h.	an market and	-	
-41.2 -51.2 -61.2									
Center 1.754 #Res BW 30			#V	/BW 91 kHz	z			an 6 MHz 0 100 ms	CF Step 600.000 kHz
Occupie			Hz	Total Po	ower	22.1	l dBm		Auto Man Freg Offset
Transmit	Freq Error	-1.802	kHz	OBW Pc	ower	99	9.00 %		0 Hz
#Res BW 30 kHz Occupied Bandwidth 2.6842 Transmit Freq Error -1.3		6842 M	2 kHz OBW Power		#Sweep 100 m 22.1 dBm 99.00 % -26.00 dB			Auto	

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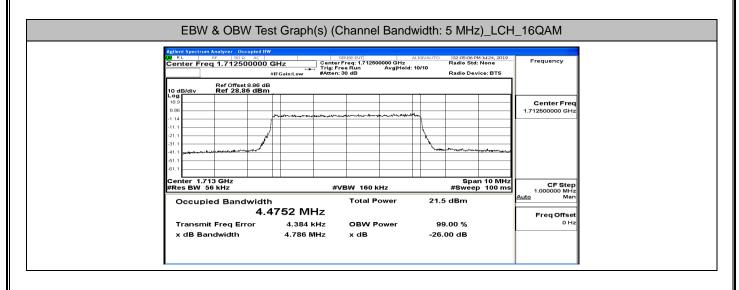


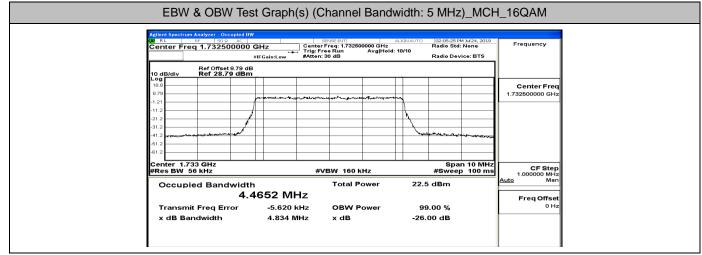


Agilent Spectrum Analyzer - Occupied Bi		SENSE:INT	ALIGNAUTO 02:05:34 PM Jul 24, 201/					
Center Freq 1.7525500000 GHz #IFGaint.ov #Kten: 30 dB Radio Stel: None Radio Stel: None Radio Stel: None Radio Stel: None Radio Stel: None								
Ref Offset 8.79 dB 10 dB/div Ref 28.79 dBm	3			1				
Log 18.8 8.79				Center Fred				
-1.21	performance and the second							
-21.2 -31.2			Long but get way a special proto spectrum					
-41.2								
-61.2 Center 1.753 GHz			Span 10 MH	1				
#Res BW 56 kHz	#	/BW 160 kHz	#Sweep 100 m	s 1.000000 MHz				
Occupied Bandwidt	h 4730 MHz	Total Power	22.6 dBm	<u>Auto</u> Man				
Transmit Freg Error	-3.234 kHz	OBW Power	99.00 %	Freq Offset 0 Hz				
x dB Bandwidth	4.821 MHz	x dB	-26.00 dB					

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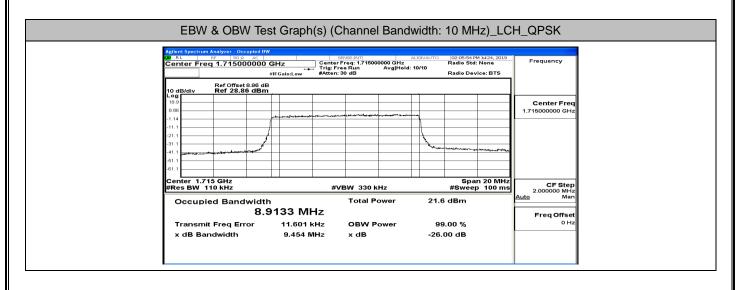


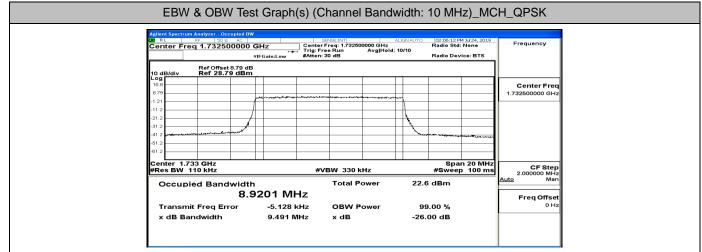


Agilent Spectrum Analyzer - Occupied BW 00 R L RF 50 Ω AC SENSE:INT ALIGNAUTO 02:05:43 PM 3d/24, 2019												
Center Freq 1.752500000 GHz Center Freq 1.752500000 GHz Radio Std: None Radio Std: None												
		n: 30 dB	Radio Device: BTS	_								
Ref Offset 8.79 dE 10 dB/div Ref 28.79 dBm	3											
18.8				Center Freq								
8.79	Annual and a second and a second	-	-t-m	1.752500000 GHz								
-1.21												
-21.2	/			-								
-31.2												
-41.2												
+61.2												
Center 1.753 GHz #Res BW 56 kHz		≠VBW 160 kHz	Span 10 Mi #Sweep 100 n	CF Step								
			· · ·	1.000000 MHz Auto Man								
Occupied Bandwidtl		Total Power	21.7 dBm									
	4778 MHz			Freq Offset								
Transmit Freq Error	-7.438 kHz	OBW Power	99.00 %	0 Hz								
x dB Bandwidth	4.813 MHz	x dB	-26.00 dB									

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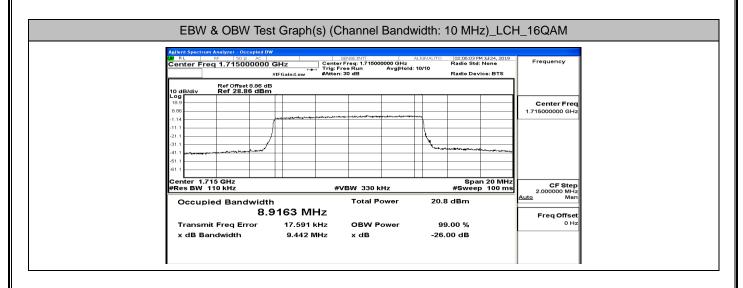


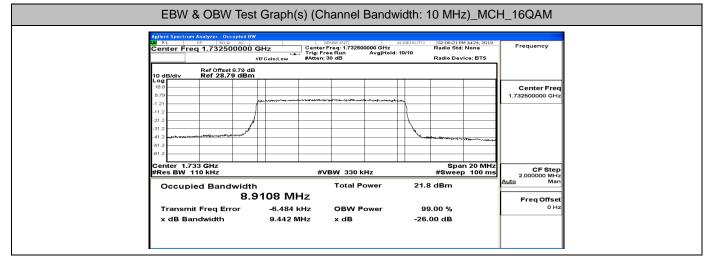


Applent Spectrum Analyzer - Occupied DW         Applent Spectrum Analyzer - Occupied DW           NR         NF         509 AC         SENSE:NT         ALIGNAUTO         02:06:30 FM JJ/24, 2019           Center Freq 1.7500000 OG Hz         Center Freq: 1.7500000 OHz         Radio Std: None         Radio Std: None											
Ref Offset 8.79	#IFGaint.ow #Atten: 30 dB Radio Device: BTS Ref Offset 8.79 dB 10 dB/div Ref 28.79 dB										
Log 18.8 8.79											
-1.21 -11.2 -21.2 -31.2			Lever and a second second second second second								
-41.2											
Center 1.75 GHz #Res BW 110 kHz		#VBW 330 kHz	Span 20 MH #Sweep 100 m								
Occupied Bandwid	3th 3.9220 MHz	Total Power	Total Power 21.9 dBm								
Transmit Freg Error	9.583 kHz	OBW Power	99.00 %	Freq Offset 0 Hz							

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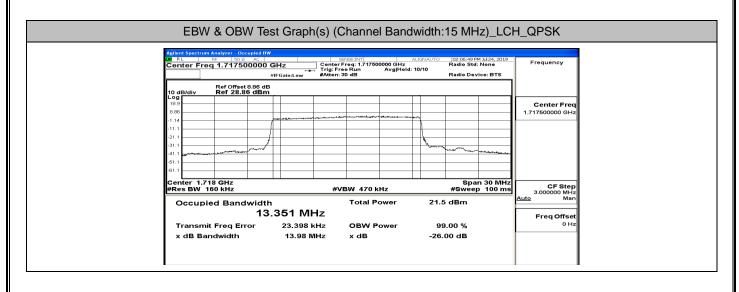


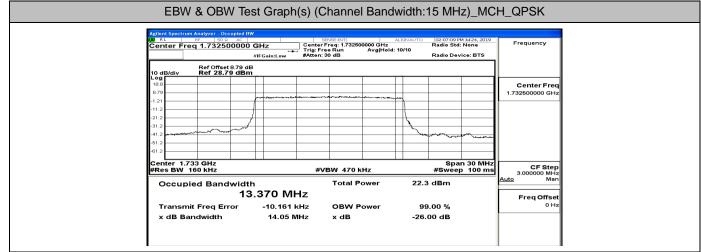


Applent Spectrum Analyzer - Occupied INW           VM         R.L         RF         SSNSE::NT         ALIGNAUTO         02:06:39 PM 3J/24, 2019           Center Freg 1.750000000 GHz         Center Freg 1.750000000 GHz         Radio Std: None												
Center Freq 1.750000000 GHz Center Freq. 170500000 GHz Radio Statione Trijf: Free Run Avg Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS												
Ref Offset 8.79 d 10 dB/div Ref 28.79 dBn	7											
Log 18.8 8.79				Center Fred 1.750000000 GH:								
-1.21				-								
-21.2 -31.2 -41.2	/		- Contraction and a second and a second and									
-61.2												
Center 1.75 GHz #Res BW 110 kHz	#	/BW 330 kHz	Span 20 MH #Sweep 100 m									
Occupied Bandwidt		Total Power	20.9 dBm	Auto Man								
	9319 MHz			Freq Offset								
Transmit Freq Error x dB Bandwidth	-1.825 kHz 9.350 MHz	OBW Power x dB	99.00 % -26.00 dB	0 H:								

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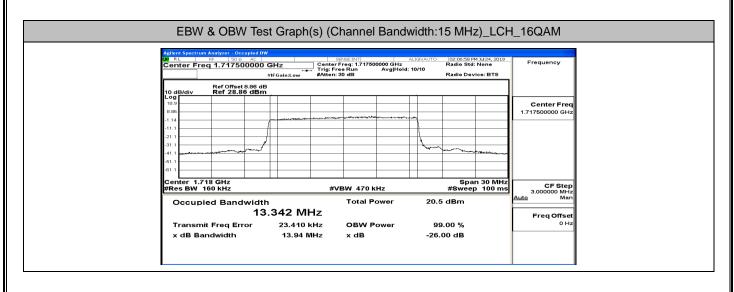


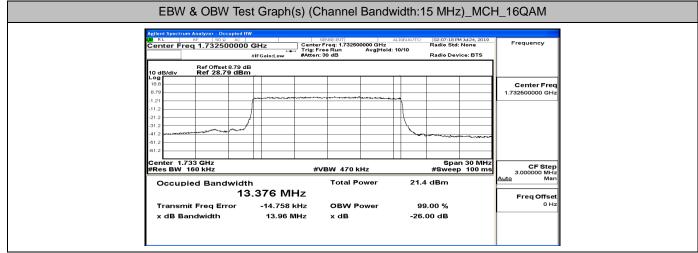


Apploint Spectrum Analyzer - Occupied BW           VM         RL         RF         50.0         AC         SENSE:INT         ALIGN AUTO         02:07:27 PM 3J/24, 2019           Center Freg 1.747500000 GHz         Center Freg 1.747500000 GHz         Radio Std: None         Radio Std: None											
Trig: Free Run Avg Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS											
Ref Offset 8.79 dB 10 dB/div Ref 28.79 dBm	3										
18.8 8.79				Center Fre 1.747500000 GH							
-1.21		19-17-17-17-17-17-17-17-17-17-17-17-17-17-		1.747500000 GH2							
-11.2	/										
-31.2 -41.2			- Langer and management								
-51.2											
Center 1.748 GHz			Span 30 Mł								
#Res BW 160 kHz	#	VBW 470 kHz	#Sweep 100 n	3.000000 MHz							
Occupied Bandwidth		Total Power	21.7 dBm	<u>Auto</u> Mar							
ں ا Transmit Freq Error	2.148 kHz	OBW Power	99.00 %	Freq Offset							
x dB Bandwidth	2.148 KHZ 14.04 MHz	x dB	-26.00 dB								

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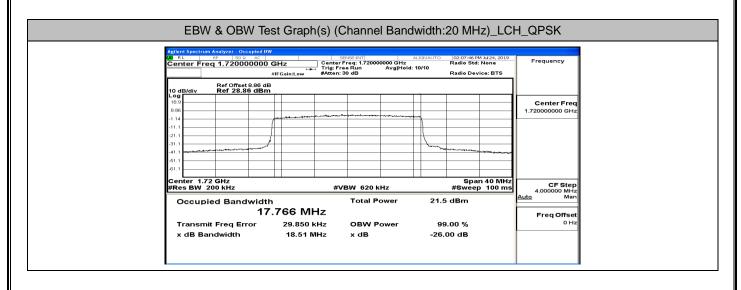


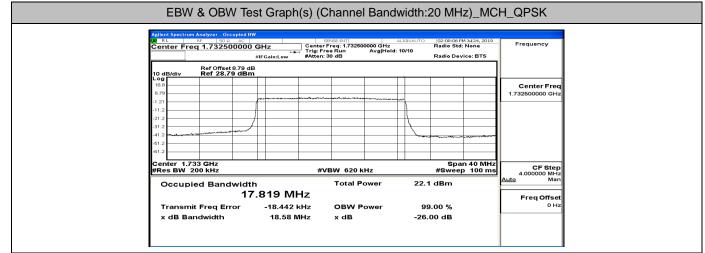


Agilent Spectrum Analyzer - Occupied DW XV R L RF 50 Ω AC SENSE:INT ALIGNAUTO 02:07:35 PM Jul 24, 2019											
Center Freq 1.74750000		Center Freq: 1.747500000 GHz Trig: Free Run Avg Ho	Radio Std: None d: 10/10	Frequency							
	#IFGain:Low	#Atten: 30 dB	Radio Device: BTS	·							
10 dB/div Ref 28.79 dE											
18.8				Center Fred							
8.79		autopowers and a marked and a marked		1.747500000 GH							
-11.2											
-21.2											
-31.2 -41.2			And and a second and a second	****							
-61.2				_							
-61.2											
Center 1.748 GHz #Res BW 160 kHz		#VBW 470 kHz	Span 30 M #Sweep 100								
Occupied Bandwid	lth	Total Power	20.9 dBm	Auto Mar							
	 3.372 MH										
Transmit Freq Error	9.622 kl		99.00 %	Freq Offse 0 Hi							
x dB Bandwidth	13.99 M		-26.00 dB								

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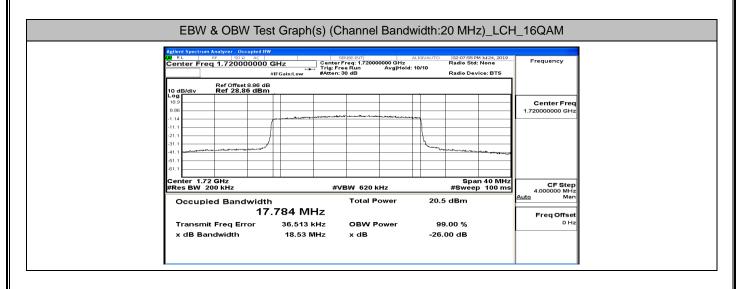


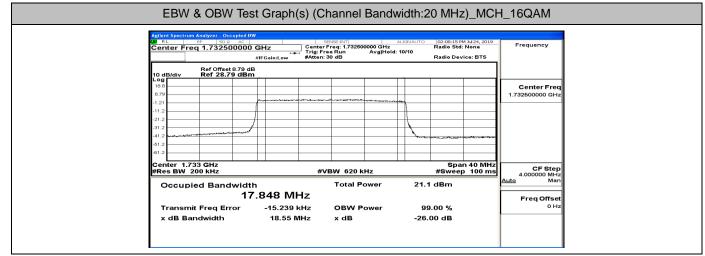


tellent Spectrum Andyzer. Occupied NW RL BP ISO AC SENSE:NTI ALIGNAUTO [02:08:24 PM JJ:24, 2019 ] Center Freq 1.745000000 GHz Radio Std: None Radio Std: None Avg Hold: 10/10											
	#IFGain:Low #Atten	ree Run Avg Hold : 30 dB	Radio Device: BTS	_							
10 dB/div Ref 28.79 dB											
18.8 8.79				Center Fred 1.745000000 GHz							
-1.21				-							
-21.2											
-41.2											
Center 1.745 GHz #Res BW 200 kHz	#	/BW 620 kHz	Span 40 MH #Sweep 100 m	CF Step							
Occupied Bandwidt		Total Power	21.9 dBm	4.000000 MHz Auto Mar							
1		Freq Offset									
				0 Hz							

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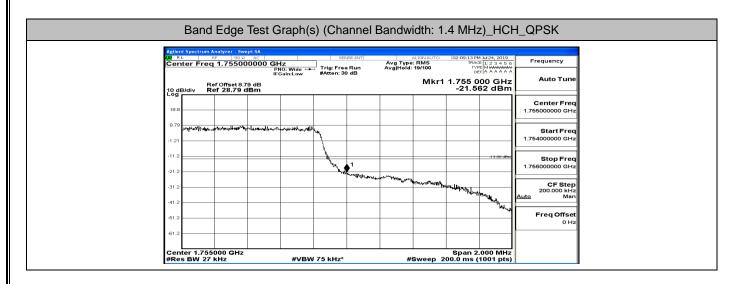
Applicat Spectrum Analyzer - Occupied BW           M RL         SENSE:INT         ALIGNAUTO         02:08:33 PM 3/24, 2019           Center Freq 1.745000000 GHz         Canter Freq 1.745000000 GHz         Radio Std: None											
Trig: Free Run Avg Hold: 10/10 #IFGain:Low #Atten: 30 dB Radio Device: BTS											
Ref Offset 8.79 d 10 dB/div Ref 28.79 dBn											
18.8 8.79				Center Fred 1.745000000 GHz							
-1.21											
-21.2											
-41.2											
Center 1.745 GHz #Res BW 200 kHz	#	VBW 620 kHz	Span #Sweep	40 MHz 100 ms CF Step							
Occupied Bandwidt	h	Total Power	20.9 dBm	4.000000 MHz Auto Man							
	7.848 MHz		00.00 M	Freq Offset							
Transmit Freq Error x dB Bandwidth	-15.531 kHz 18.67 MHz	OBW Power x dB	99.00 % -26.00 dB								

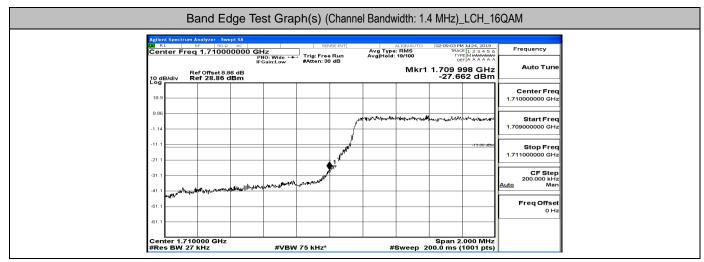
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### A.4 Band Edge

Band Edge Test Graph(s)	(Channel Bandwidth: 1.4 MHz)_LCH_QPSK
-------------------------	---------------------------------------

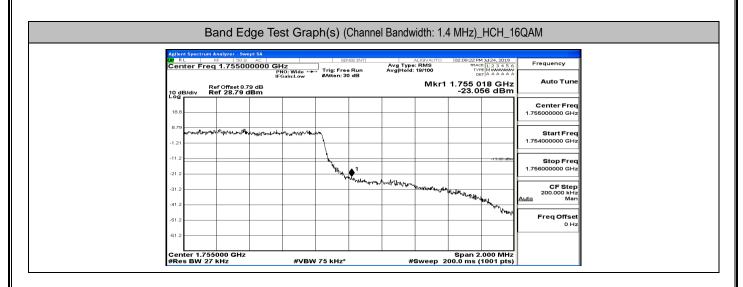
Center Freq 1.71000		Trig: Free F #Atten: 30 d	Run	Avg Type: R Avg Hold: 19	GN AUTO MS /100	02:08:54 PM TRACI TYP DE		Frequency
Ref Offset 8.8 0 dB/div Ref 28.86 d	86 dB				Mkr1	1.709 9 -28.31	96 GHz I4 dBm	Auto Tune
18.9								Center Freq 1.710000000 GHz
8.86			/ ma	หาของประสูงส่งสะเหาะเจ	~f#w.d/~y~yhilly	warn <sup>an</sup> ikunifiliking	Philipson and	Start Freq 1.709000000 GHz
-11.1			- de la composición de la comp				-13.00 dBm	Stop Freq
-21.1		\$	1					CF Step 200.000 kHz
-41.1	เห็นการเห็นสามารถใหญ่สุดใหญ่สุดรังไม่เสาะหัว	nige square fill						Auto Man
-61.1								Freq Offset 0 Hz
-61.1								
Center 1.710000 GHz #Res BW 27 kHz	#\/B\//	75 kHz*		#614	veen 2	Span 2. 00.0 ms (/	000 MHz	

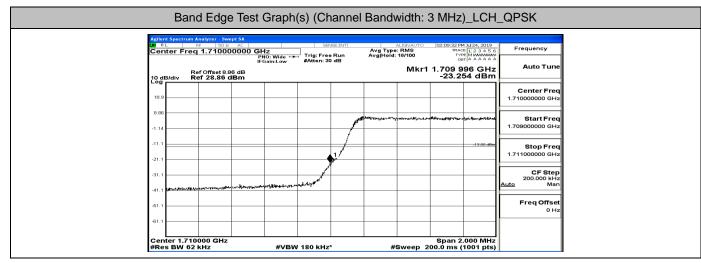




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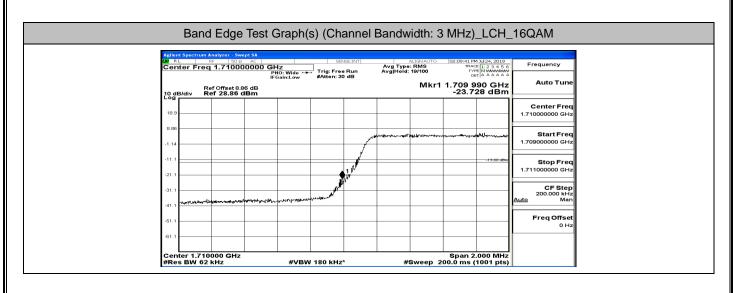


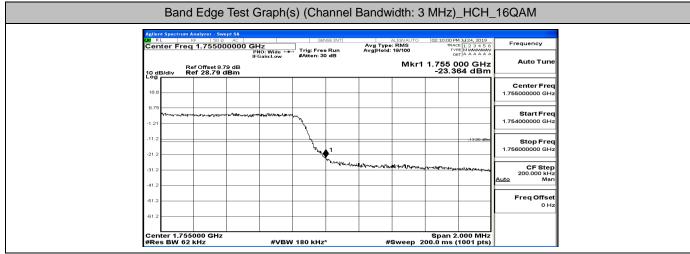


Agilent S		Analyzer - Sv	weptSA Ω AC		05	NSE:INT		LIGN AUTO	02:09:51 PM	1104 2010	1
			00000 GI	Hz NO:Wide ↔			Avg Type Avg Hold:	BMS	TRACI		Frequency
10 dB/d	div R	tef Offset 8 tef 28.79	.79 dB	Gain:Low	#Atten: 3	0 dB		Mkr1	1.755 0		Auto Tune
18.8											Center Freq 1.755000000 GHz
8.79 -1.21	Warner Mangalies	174-474-36664-00.74			- <b>N</b>						<b>Start Freq</b> 1.754000000 GHz
-11.2										-13.00 dBm	Stop Freq
-21.2 —					<b>~</b> **,	Jeastnergenard	-logistic angine	(profit from to a where			1.756000000 GHz
-31.2											200.000 kHz Auto Man
-61.2											Freq Offset 0 Hz
-61.2							_				

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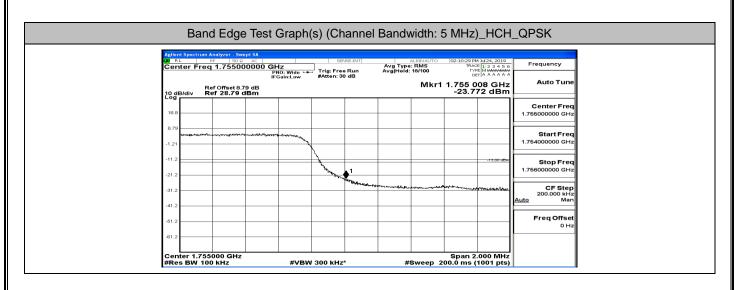


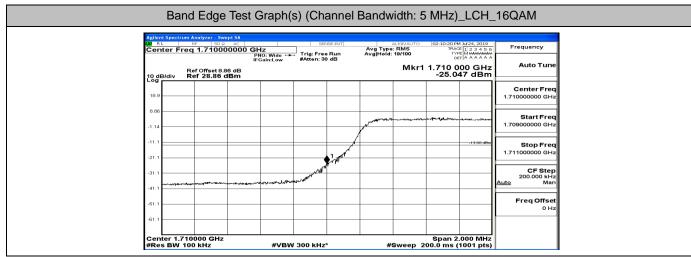


Agilent Spect	trum Analyzer - Sv RF 50 s				VSE:INT		ALIGN AUTO	00.10.10.0	4 Jul 24, 2019	
	Freq 1.7100	00000 GF	lz 0:Wide ↔►	Trig: Free	Run	Avg Type Avg Hold:	RMS	TRAC TY	E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
10 dB/div	Ref Offset 8 Ref 28.86	IF0 .86 dB	Sain:Low	#Atten: 34	DdB	-		1.710 0	00 GHz 05 dBm	Auto Tune
18.9										Center Freq 1.710000000 GHz
8.86						and the second second	المراجع والمعالي المحافظ	terr-Attactorer	ables may	Start Freq 1.709000000 GHz
-11.1					كم م	1			-13.00 dBm	Stop Freq
-21.1					1 profest					1.711000000 GHz
-31.1	184355619400 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840 - 1840	- Jos mar to the sec	ministricture and	-						CF Step 200.000 kHz <u>Auto</u> Man
-51.1										Freq Offset 0 Hz
-61.1										

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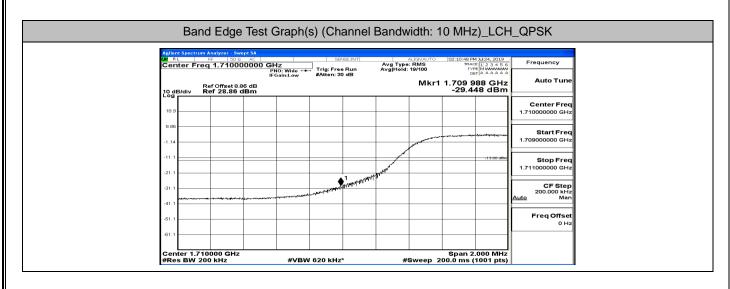
Report No.: LCS190709015AEC

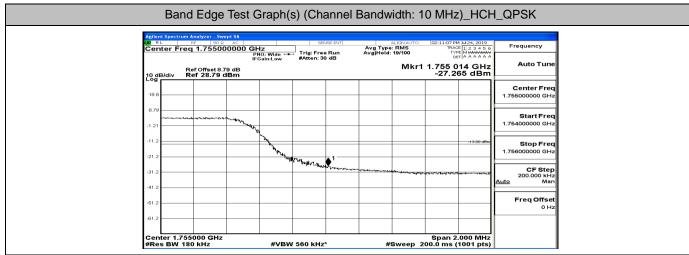


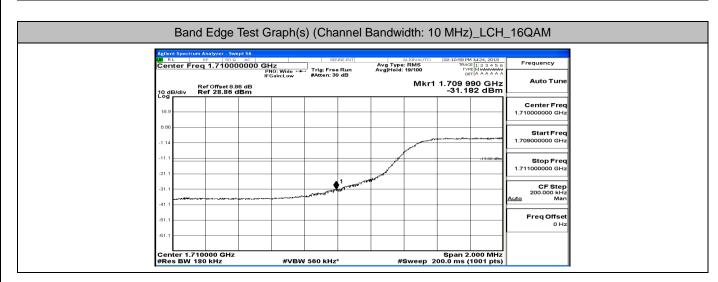


Agilen		Analyzer - Swe									
Cen		R⊧   50 Ω ຊ 1.75500	00000 GH	z			Avg Type Avg Hold:	RMS	02:10:39 PN TRAC	E 1 2 3 4 5 6 MWWWWWW T A A A A A A	Frequency
10 dE	B/div R	ef Offset 8.7 tef 28.79 d	IFG '9 dB	lO: Wide ↔ Sain:Low	#Atten: 30	) dB	Avginoid.		1.755 0	02 GHz 57 dBm	A
18.8											Center Freq 1.755000000 GHz
8.79	6040-0-ayro-s6y44/1	-militines	a-m-maditLikea								<b>Start Freq</b> 1.754000000 GHz
-11.2					A Horange	. 1				-13.00 dBm	<b>Stop Freq</b> 1.756000000 GHz
-31.2					. Annual Contraction	Wenneman	and the state of the second	lades		visitas apagastaist	CF Step 200.000 kHz <u>Auto</u> Man
-41.2 -61.2											Freq Offset 0 Hz
-61.2											

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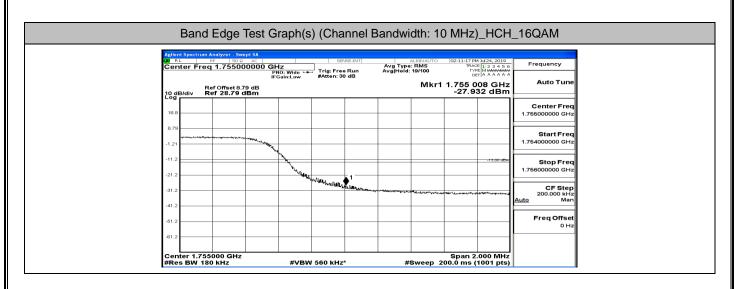


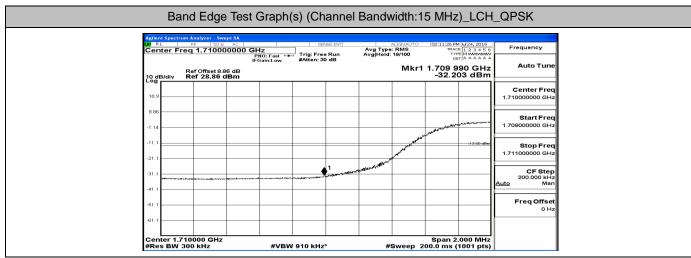




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Report No.: LCS190709015AEC

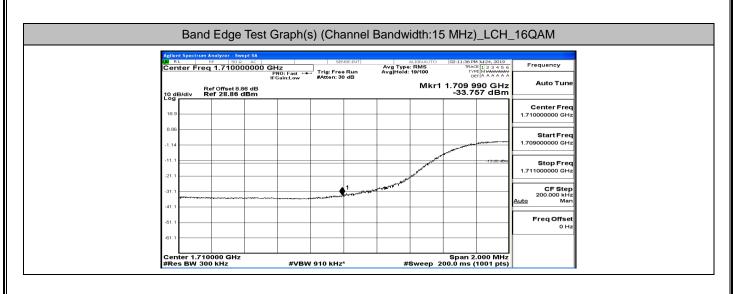


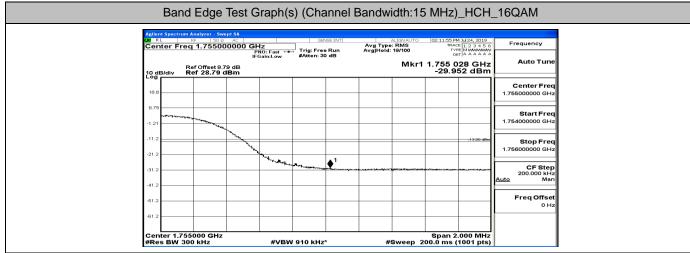


		Analyzer - Sw									
Cer			00000 G	Hz NO:Fast ⊶		e Run	Avg Type Avg Hold:	RMS 19/100	02:11:45 Pf TRAC TYL	E 1 2 3 4 5 6 E MWWWWWW T A A A A A A	Frequency
	B/div R	tef Offset 8. tef 28.79	IF 79 dB	Gain:Low	#Atten: 3	30 dB			1.755 0	08 GHz 45 dBm	
18.8											Center Freq 1.75500000 GHz
8.79	mounance	un une									Start Freq 1.754000000 GHz
-11.2			North Marken Marken	<u> </u>						-13:00 dBm	Stop Freq 1.756000000 GHz
-21.2				And the state	<sup>19</sup> l-Mada <sup>3</sup> l-Ward	• • • • • • • • • • • • • • • • • • •					CF Step 200.000 kHz
											<u>Auto</u> Man
-41.2											Freq Offset

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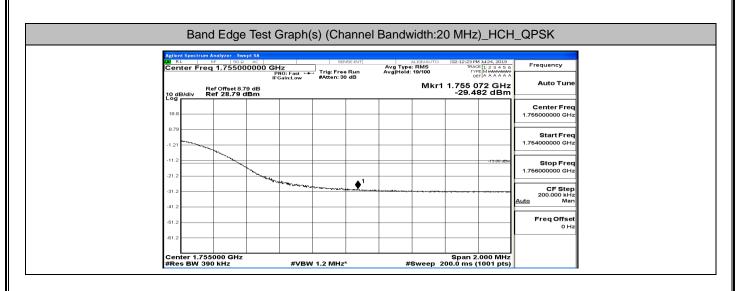


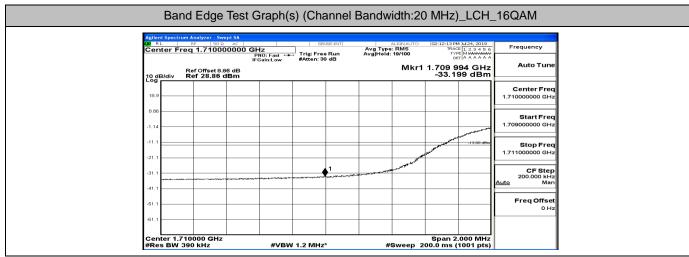


Agilent Spec	RF 5			SE	NSE:INT		LIGNAUTO	02:12:04 PM	1 Jul 24, 2019	1
	Freq 1.710	000000 G	PNO: East	Trig: Fre	e Run	Avg Type Avg Hold:	RMS	TRAC	E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
10 dB/div	Ref Offset Ref 28.8	8.86 dB	FGain:Low	#Atten: 3	0 88		Mkr1	1.710 0	00 GHz 13 dBm	Auto Tune
18.9										Center Freq 1.710000000 GHz
8.86										Start Freq
-1.14									-13:00 vBm	Stop Freq
-21.1					. 1		. Mary and rates	and the second se		1.711000000 GHz
-31.1						and a start of the				CF Step 200.000 kHz <u>Auto</u> Man
-41.1										Freq Offset 0 Hz
-61.1										0 Hz

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Agilent Spectrum Ana									
Center Freq 1	.755000000 G	Hz PNO: Fast		SE:INT	Avg Type Avg[Hold:	IIGN AUTO	02:12:32 PM TRAC	E 1 2 3 4 5 6 MWWWWWW T A A A A A A	Frequency
10 dB/div Ref	) Offset 8.79 dB 28.79 dBm	FGain:Low	#Atten: 3	DdB			1.755 0	38 GHz 50 dBm	A
18.8									Center Freq 1.755000000 GHz
-1.21									Start Freq 1.754000000 GHz
-11.2	& Naconstanting							-13:00 dBm	<b>Stop Freq</b> 1.75600000 GHz
-21.2		48-mm-48-mm-41	-white a selection	• <sup>1</sup>				*****	CF Step 200.000 kHz Auto Man
-41.2									Freq Offset 0 Hz
-61.2									0 H2

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# A.5 Conducted Spurious Emission

•	CSE	Test Gra	ph(s) (0	Channe	l Bandwi	dth: 1.4	MHz)_L	_CH_Q	PSK	
	ent Spectrum Analyz RL RF enter Freq 79.	500 kHz	PNO: Wide ↔ ► •	SENSE Trig: Free R #Atten: 10 d	INT Avg un Avg	ALIGNAUT Type: RMS Hold: 8/100	02:12:53 PM TRAC TVP DE	E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency	
10.2	RefOff dB/div Ref1	set 10.58 dB 0.58 dBm	FGain:Low	wattern. 10 a			Mkr1 13.9 -72.30		Auto Tune	
0.58									Center Freq 79.500 kHz	
-9.4									Start Freq 9.000 kHz	
-19.									Stop Freq	
-39.	4							-43.00 dBm	150.000 kHz	
-49.									CF Step 14.100 kHz <u>Auto</u> Man	
-69.	4 <b>1</b>								Freq Offset 0 Hz	
-79.	~ Way who when y	WWW.mptrAnnu	Merry	Jop <sup>A</sup> www.Ayrolyy	/wanananya	pictraph./www.	wyWM wywwy	p <sup>pr/V</sup> orm <sup>Mal</sup>		
Sta #R	art 9.00 kHz es BW 1.0 kHz	!	#VBW	3.0 kHz*	•	Sweep	Stop 15 174.0 ms (	0.00 kHz 1001 pts)		
1,30	ent Spectrum Analyz RL RF enter Freq 15.			SENSE		ALIGN AUT	02:12:58 PM TRAC	13424,2019	Frequency	
	D-404		⊆ PNO:Fast ↔ FGain:Low	Trig: Free R #Atten: 10 d	un Avg B	Type: RMS Hold: 8/100	Mkr1 5	38 kHz	Auto Tune	
		set 10.58 dB 0.58 dBm					-59.88	35 dBm	Center Freq	
-9.4									15.075000 MHz	
-19.	.4								Start Freq 150.000 kHz	
-29.								-33.00 dBm	Stop Freq 30.000000 MHz	
-49.									CF Step 2.985000 MHz Auto Man	
-69.									Auto Man Freq Offset	
-79.		rte	คงไปปีการแนงสะบงในสามาร์น	المراجع المراجع المراجع	haniliminanyonihikini	an dealla di nilakenta	แห่งเกมส์ประการสะดับ	e ordene all out	0 Hz	
Sta #R	art 150 kHz es BW 10 kHz	One of Landson		30 KHz*	A between the first states			0.00 MHz		
Agil	ent Spectrum Analyz	er - Swept SA								
Ce	nter Freq 13.		GHz PNO: Fast +++ FGain:Low	Trig: Free R #Atten: 40 d	Avg un Avg B	ALIGN AUT Type: RMS Hold: 4/100		E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency	
10 0	dB/div Ref 30	set 9.98 dB 0.00 dBm					Vikr2 25.7 -27.9	40 GHz 52 dBm	Auto Tune	
20.	A1								Center Freq 13.015000000 GHz	
10.	.0								Start Freq 30.000000 MHz	
-10.								-13.00 dBm	Stop Freq	
-20.									26.00000000 GHz	
-30.		Hata star for the star	المرجلين وعبر والاسترسان		an again and a second	kar and the second	man had been all	James Bary Jaco	CF Step 2.597000000 GHz <u>Auto</u> Man	
-60.	0								Freq Offset 0 Hz	
-60.										
Sta	art 30 MHz es BW 1.0 MH	7	#VB\A	3.0 MHz*		Sween	Stop 2 64.93 ms (	6.00 GHz 1001 pts)		

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