Appendix J: Test Data for E-UTRA Band 17

Product Name: Smart Phone

Trade Mark: DOOGEE

Test Model: S96Pro

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

J.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.08	21.98	PASS
		1	12	23.12	22.11	PASS
		1	24	22.95	21.94	PASS
		12	0	22.03	21.00	PASS
		12	6	22.03	21.03	PASS
		12	13	22.04	20.97	PASS
		25	0	22.06	21.04	PASS
	MCH	1	0	22.93	21.91	PASS
		1	12	23.07	22.04	PASS
		1	24	22.96	21.92	PASS
		12	0	21.87	20.83	PASS
		12	6	21.86	20.82	PASS
		12	13	22.02	20.98	PASS
		25	0	21.99	20.95	PASS
	HCH	1	0	22.94	22.08	PASS
		1	12	23.10	22.26	PASS
		1	24	23.06	22.19	PASS
		12	0	22.07	21.04	PASS
		12	6	22.08	21.02	PASS
		12	13	21.91	20.84	PASS
		25	0	21.99	20.94	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.94	22.09	PASS
		1	24	23.01	22.20	PASS
		1	49	22.97	22.12	PASS
		25	0	21.99	20.96	PASS
		25	12	22.01	20.92	PASS
		25	25	22.03	21.00	PASS
		50	0	21.98	20.91	PASS
	MCH	1	0	22.95	22.09	PASS
		1	24	23.07	22.19	PASS
		1	49	23.02	22.13	PASS
		25	0	21.90	20.89	PASS
		25	12	21.89	20.90	PASS
		25	25	21.93	20.92	PASS
		50	0	21.85	20.90	PASS
	HCH	1	0	23.01	21.88	PASS
		1	24	23.09	22.02	PASS
		1	49	23.09	21.98	PASS
		25	0	21.89	20.84	PASS
		25	12	21.89	20.84	PASS
		25	25	21.84	20.85	PASS
		50	0	21.86	20.84	PASS

J.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.08	<13	PASS
	MCH	5.03	<13	PASS
	HCH	4.74	<13	PASS
16QAM	LCH	5.87	<13	PASS
	MCH	5.8	<13	PASS
	HCH	5.56	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	4.92	<13	PASS
	HCH	4.85	<13	PASS
16QAM	LCH	5.77	<13	PASS
	MCH	5.76	<13	PASS
	HCH	5.76	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
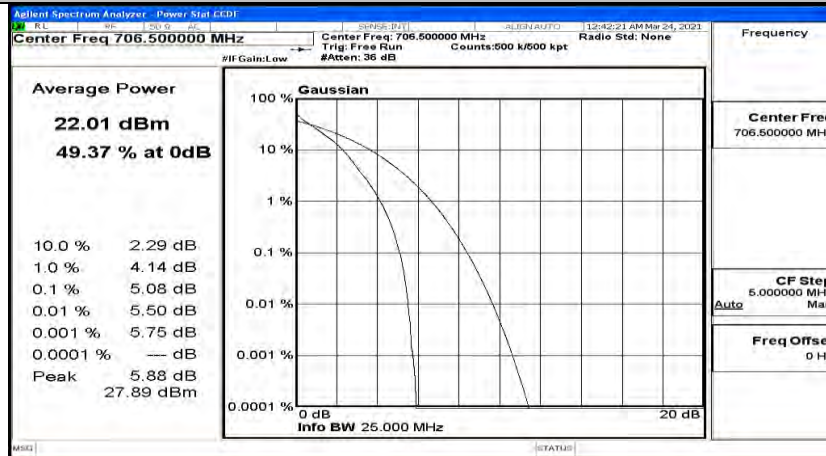
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
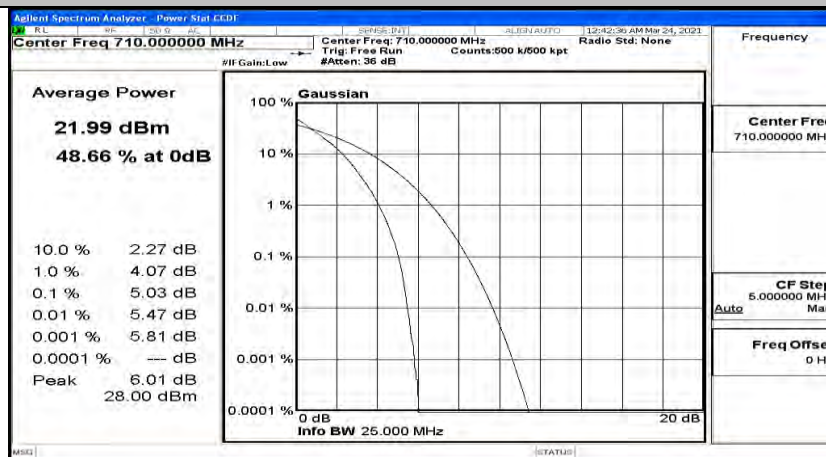
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
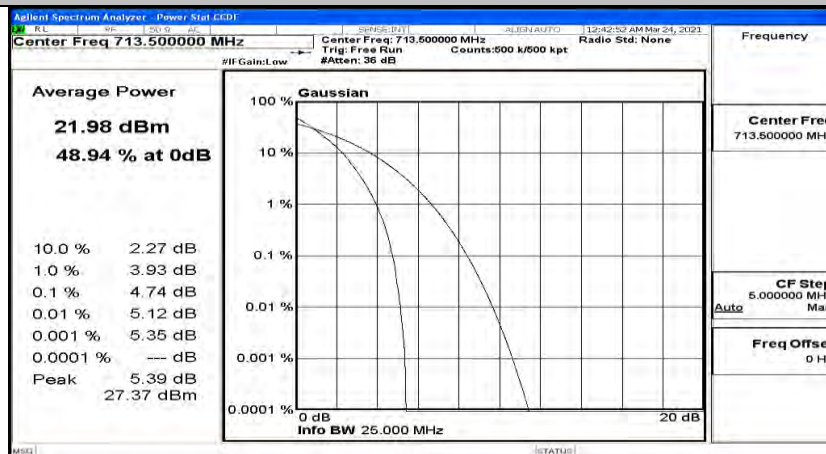
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
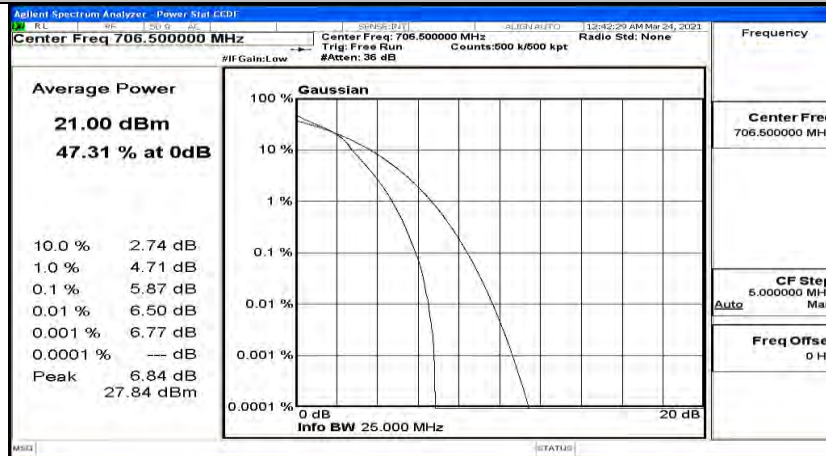
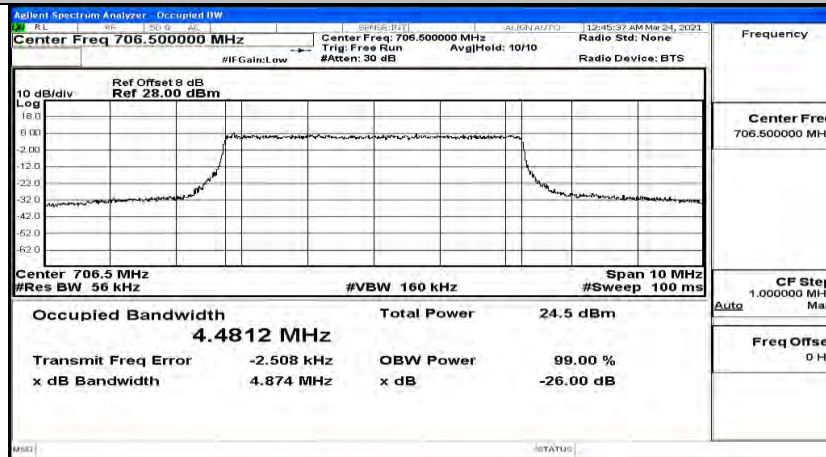| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM |
|---|
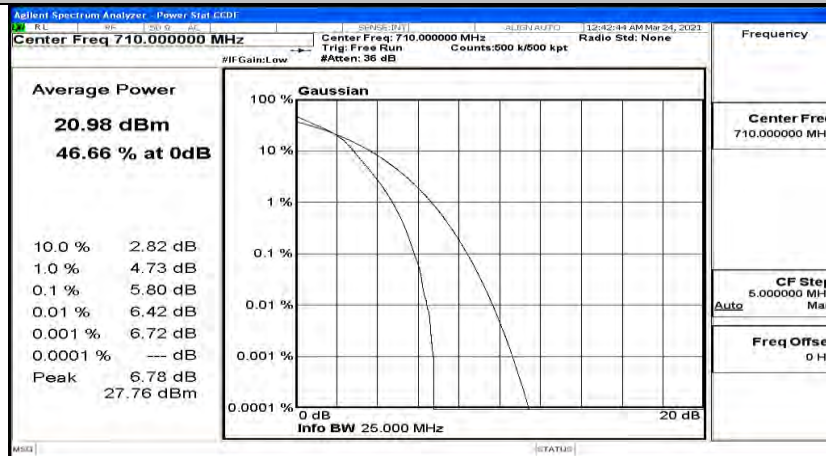
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
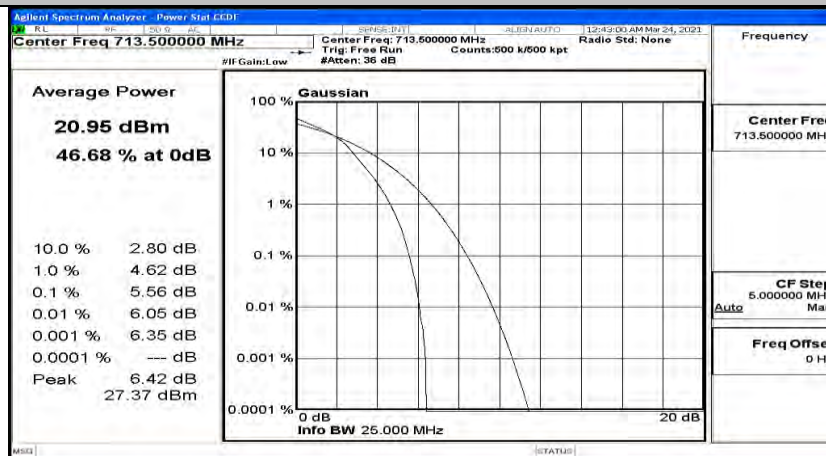
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
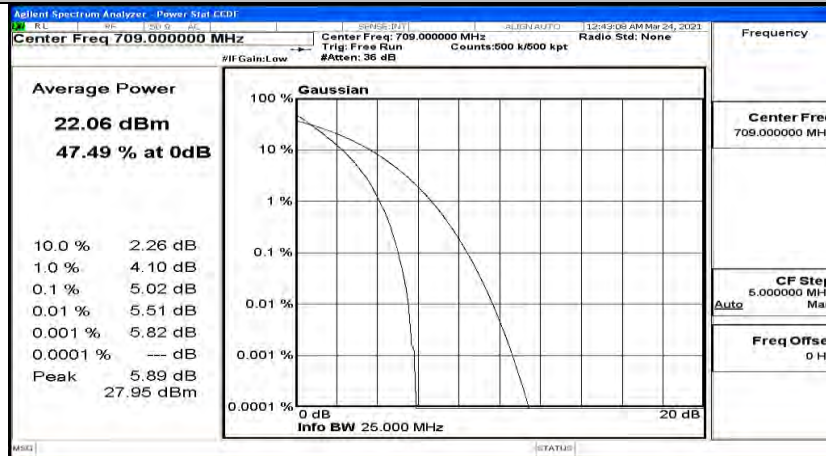
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
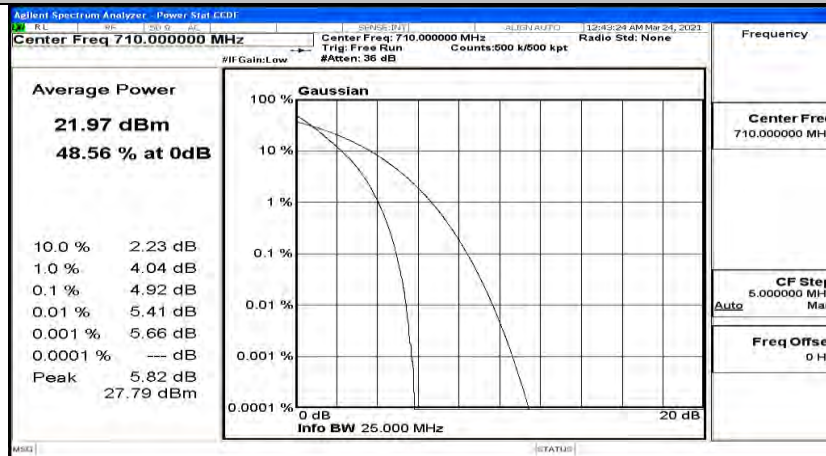
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
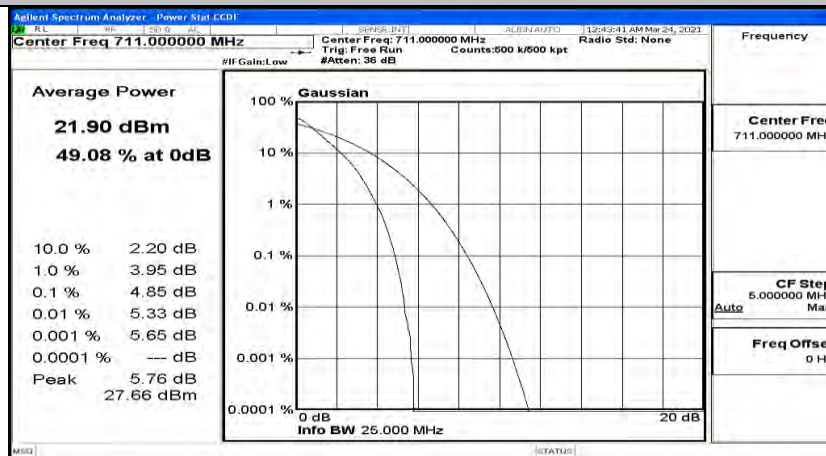
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
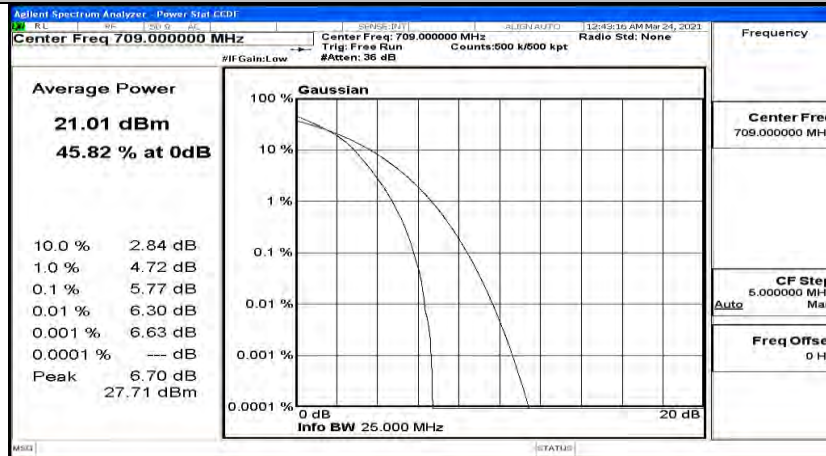
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
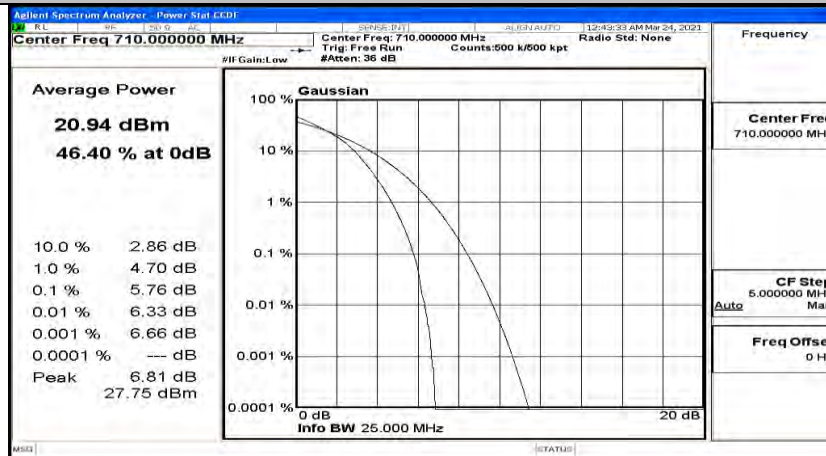
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
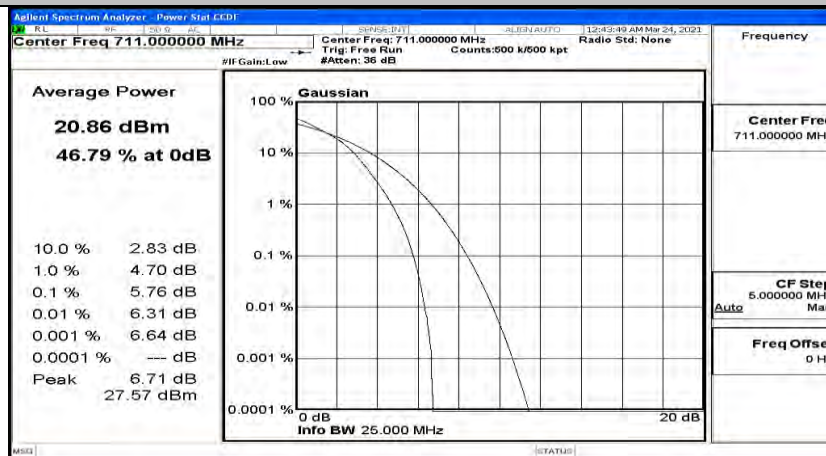
J.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4812	4.874	PASS
	MCH	4.4723	4.859	PASS
	HCH	4.4667	4.827	PASS
16QAM	LCH	4.4782	4.881	PASS
	MCH	4.4660	4.901	PASS
	HCH	4.4747	4.802	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9468	9.530	PASS
	MCH	8.9270	9.461	PASS
	HCH	8.9206	9.474	PASS
16QAM	LCH	8.9359	9.523	PASS
	MCH	8.9361	9.395	PASS
	HCH	8.9225	9.391	PASS

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

Occupied Bandwidth		Total Power	24.5 dBm
4.4812 MHz			
Transmit Freq Error	-2.508 kHz	OBW Power	99.00 %
x dB Bandwidth	4.874 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK

Occupied Bandwidth		Total Power	24.5 dBm
4.4723 MHz			
Transmit Freq Error	6.328 kHz	OBW Power	99.00 %
x dB Bandwidth	4.859 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

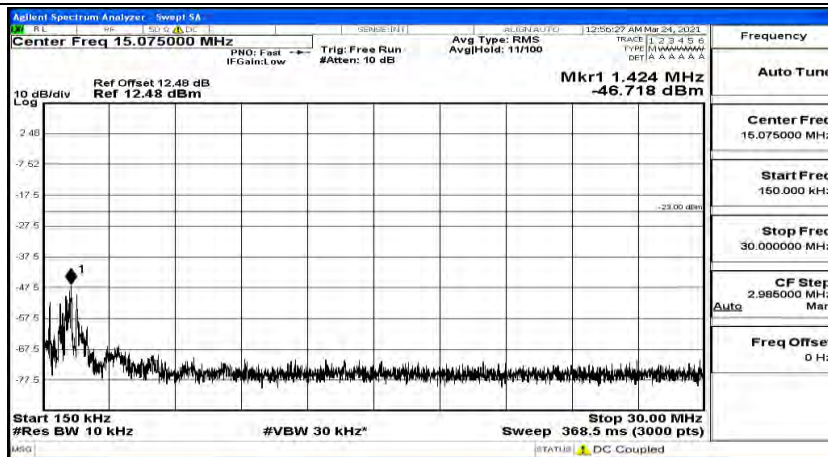| Occupied Bandwidth		Total Power	24.5 dBm
4.4667 MHz			
Transmit Freq Error	-11.420 kHz	OBW Power	99.00 %
x dB Bandwidth	4.827 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

Occupied Bandwidth		Total Power	23.5 dBm
4.4782 MHz			
Transmit Freq Error	-1.533 kHz	OBW Power	99.00 %
x dB Bandwidth	4.881 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

Occupied Bandwidth		Total Power	23.5 dBm
4.4660 MHz			
Transmit Freq Error	4.117 kHz	OBW Power	99.00 %
x dB Bandwidth	4.901 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

Occupied Bandwidth		Total Power	23.6 dBm
4.4747 MHz			
Transmit Freq Error	-6.691 kHz	OBW Power	99.00 %
x dB Bandwidth	4.802 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
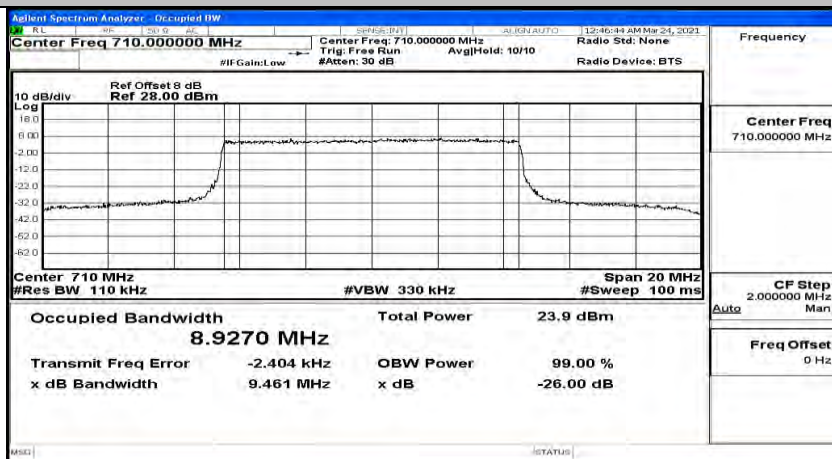
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 12 of 46
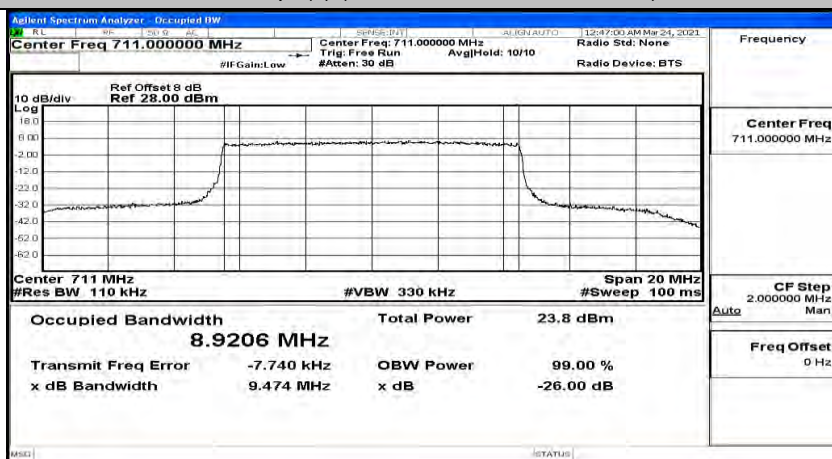
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
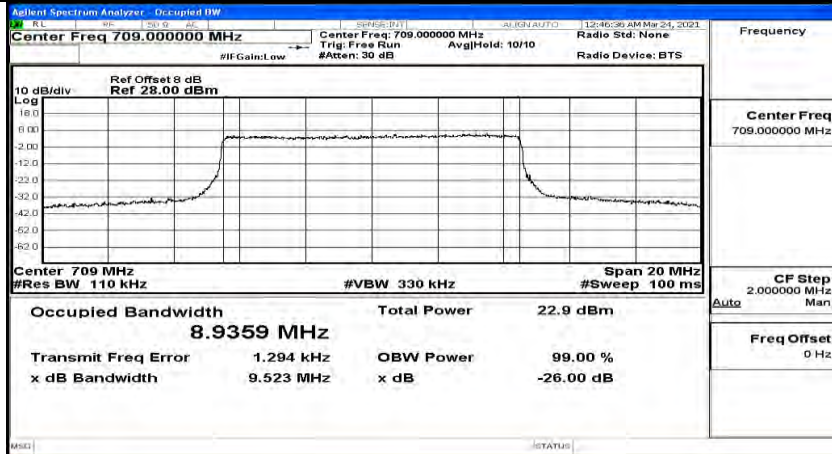
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM
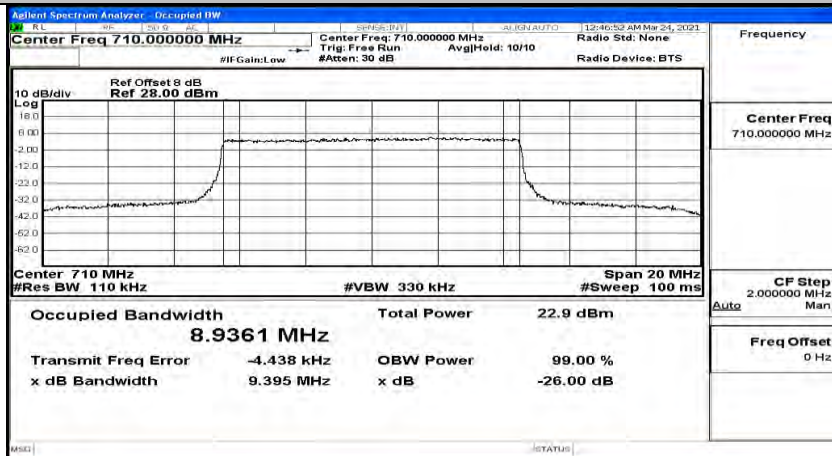
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
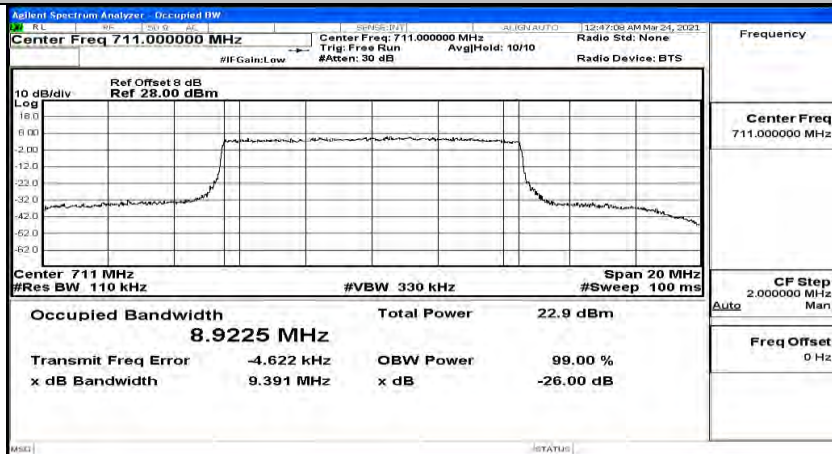
J.4 Band Edge

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
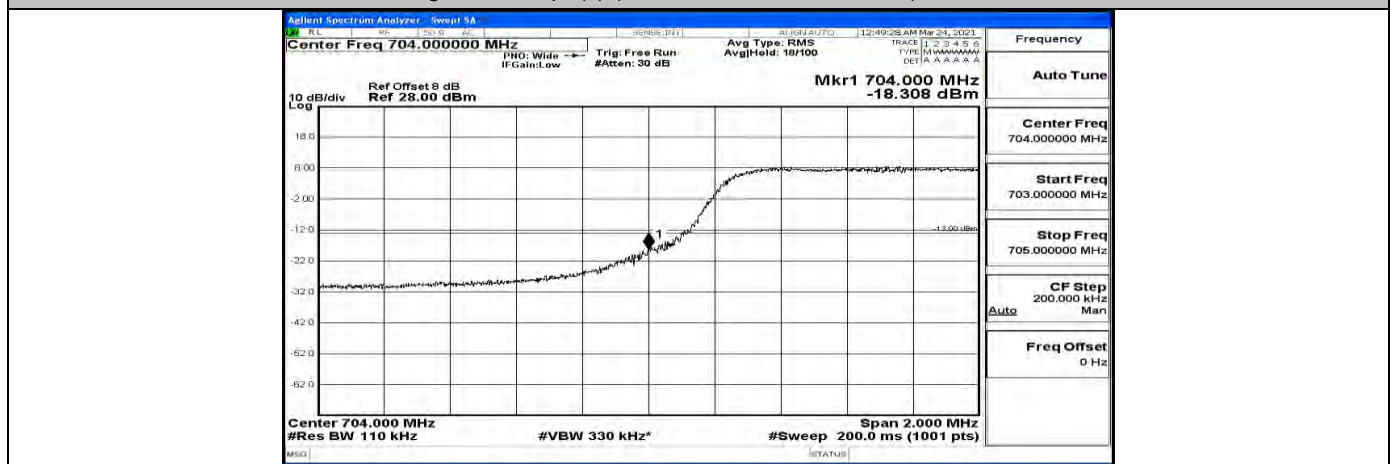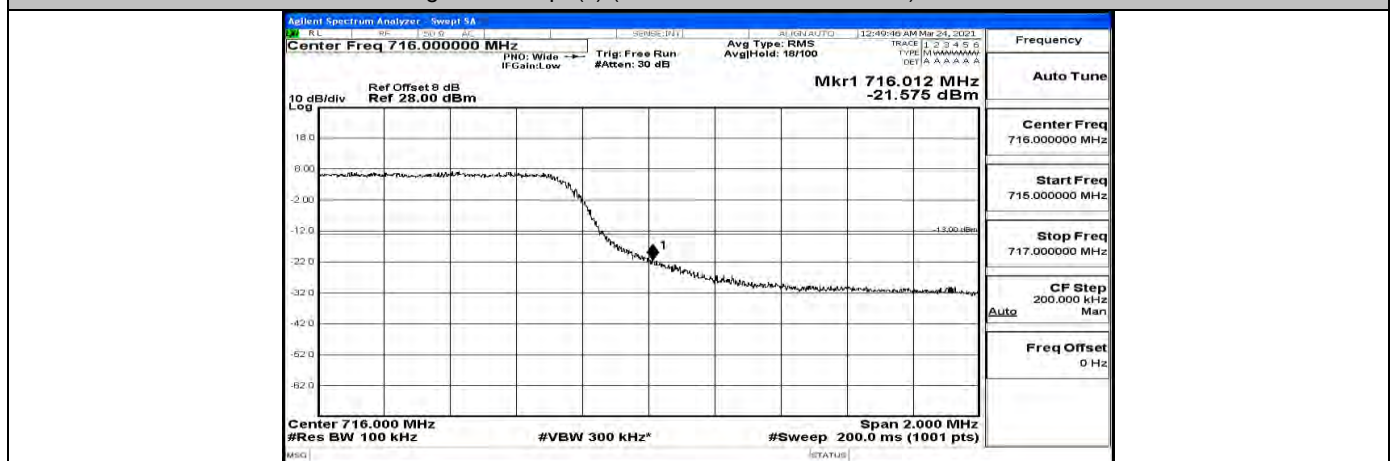
| Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
|:---:|
| |

| Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM |
|:---:|
| |
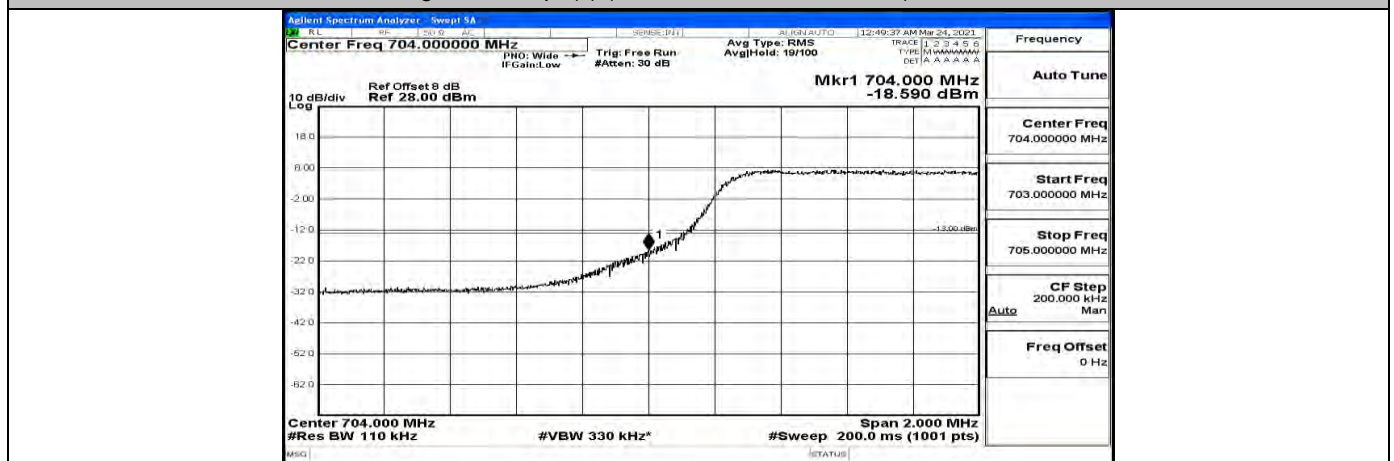
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM
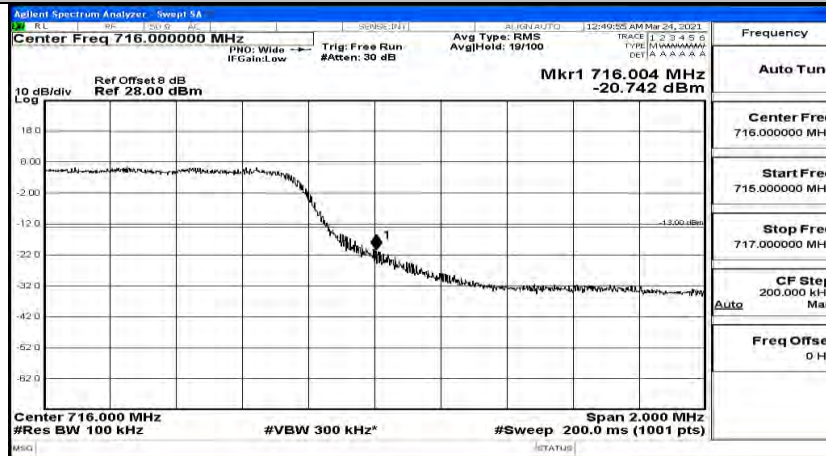
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
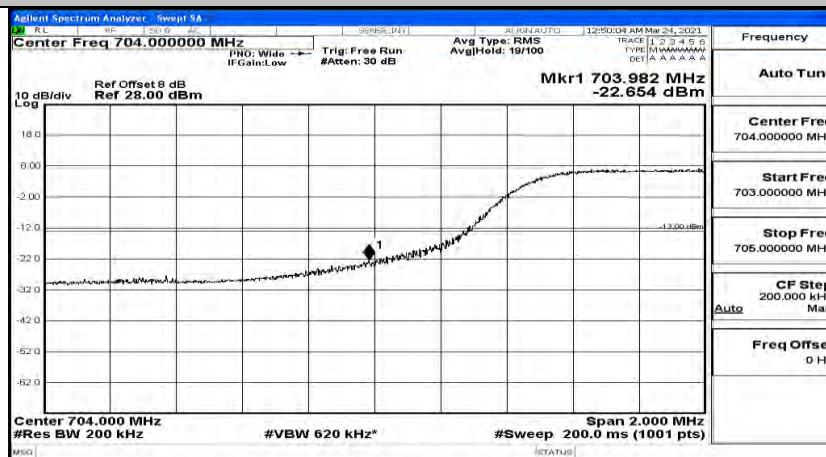
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK
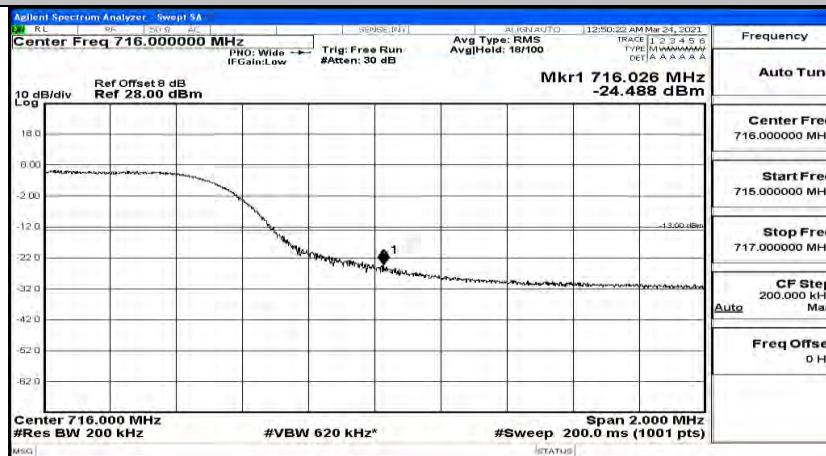
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
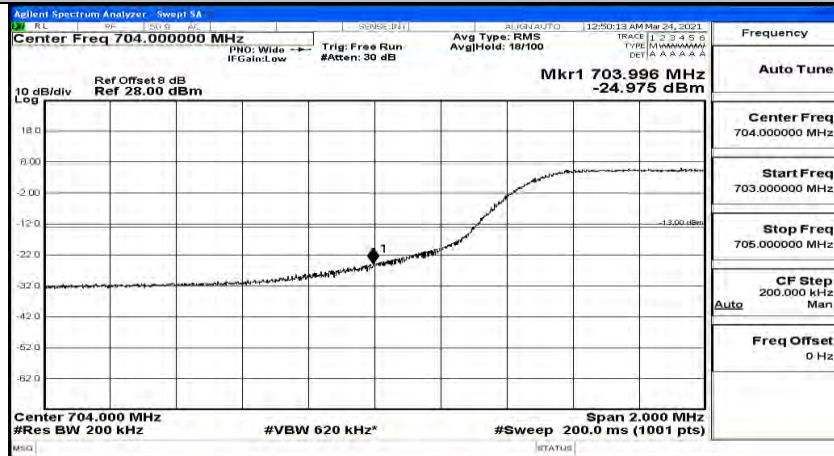
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM
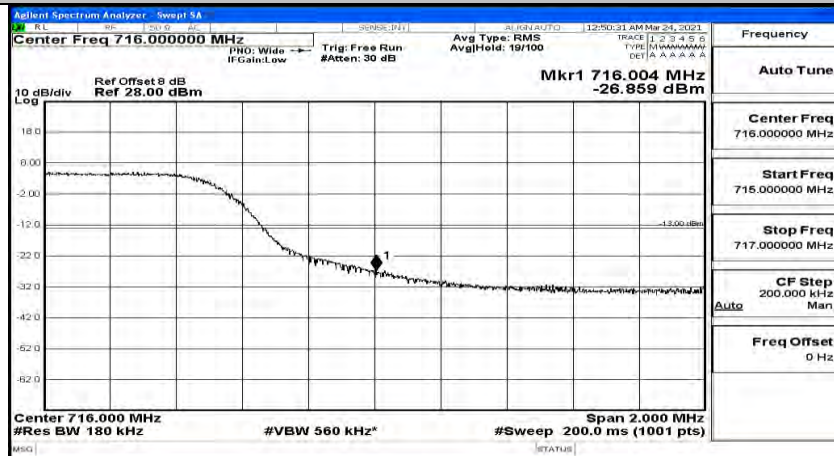
J.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

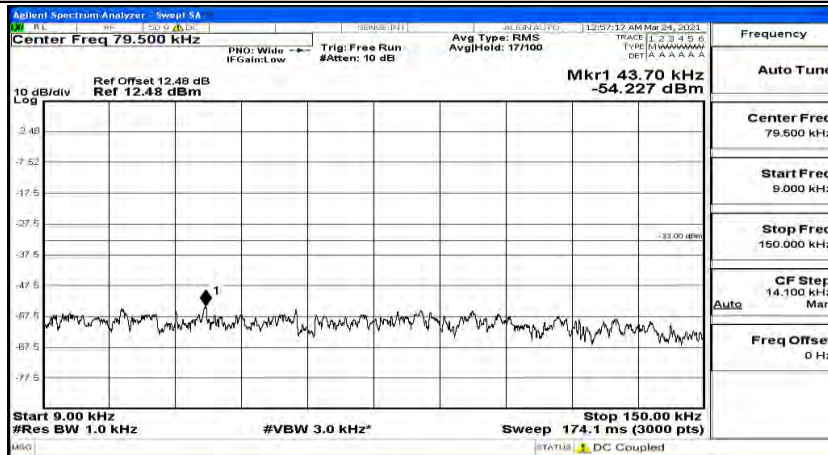| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0 |
|---|

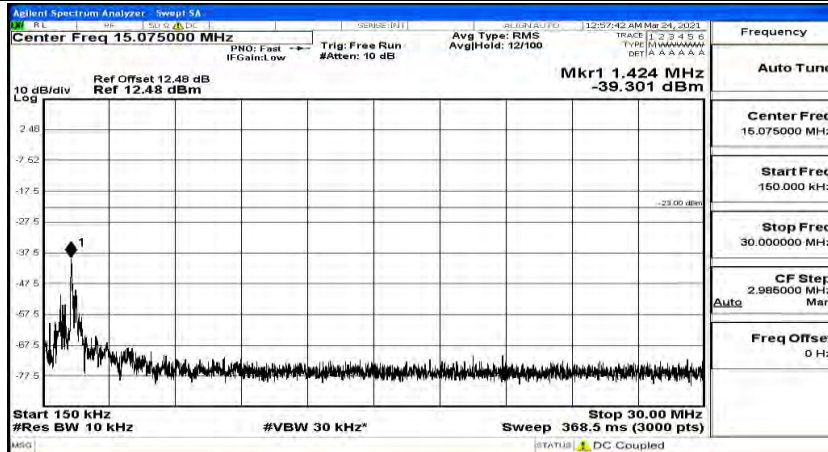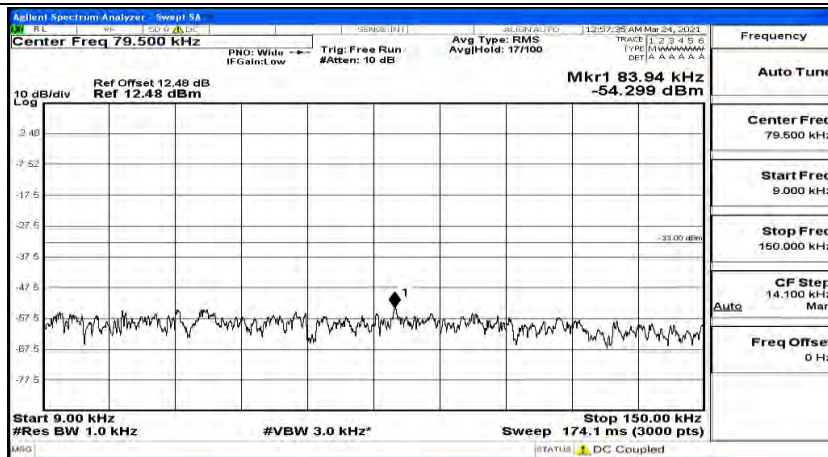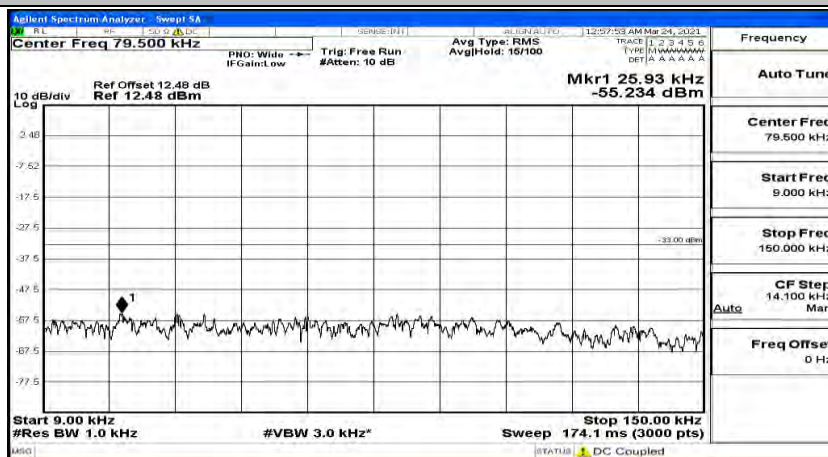| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12 |
|---|
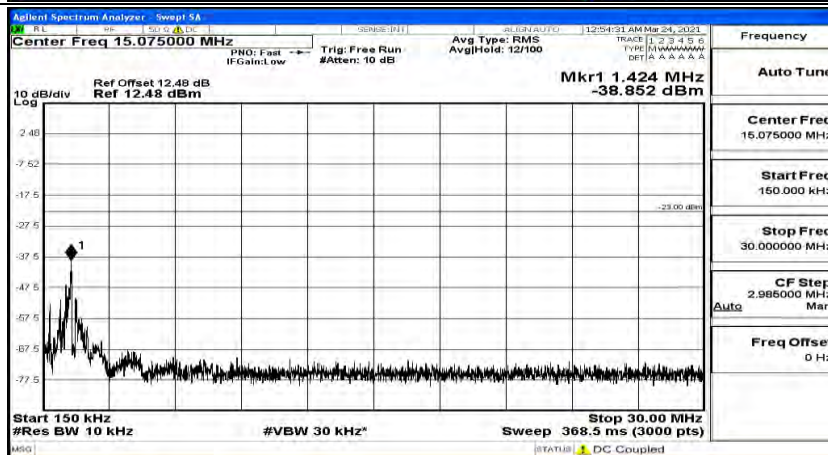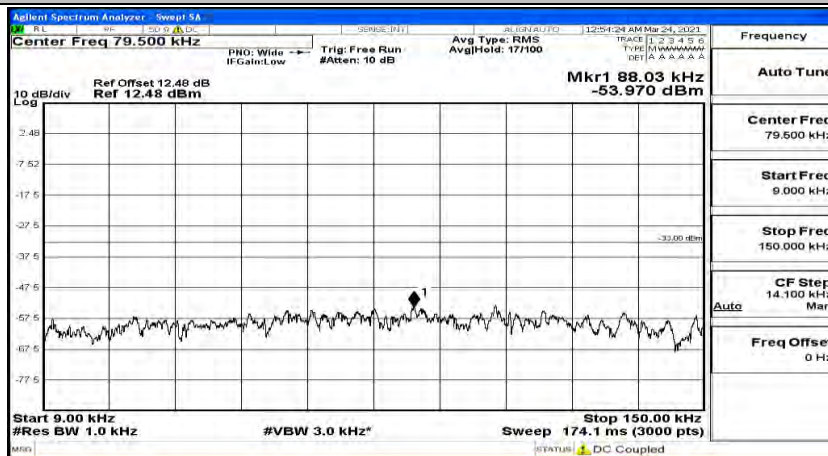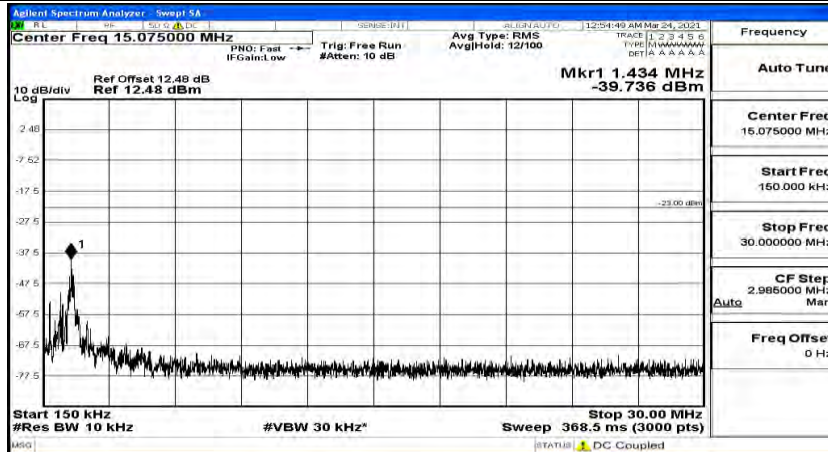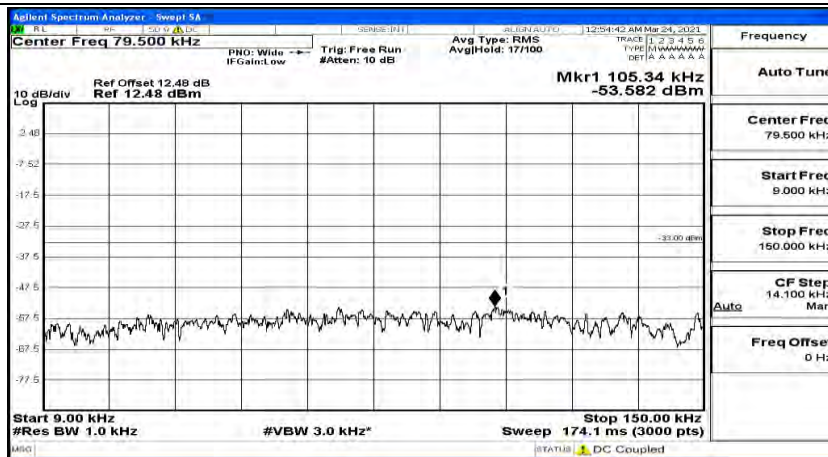
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24
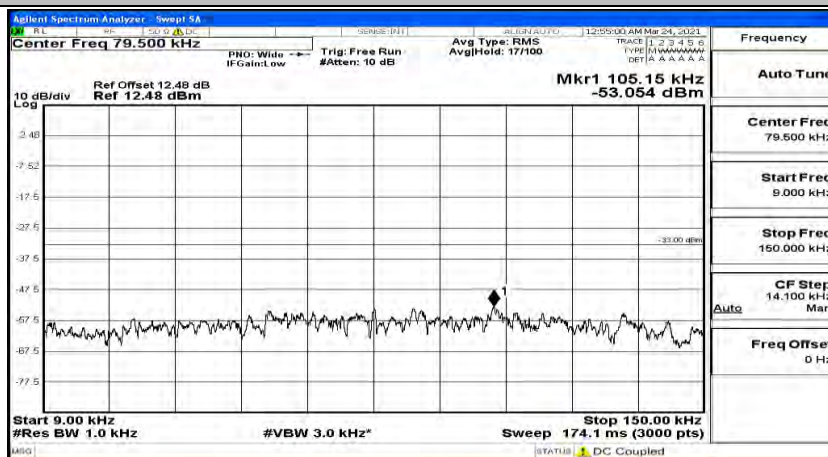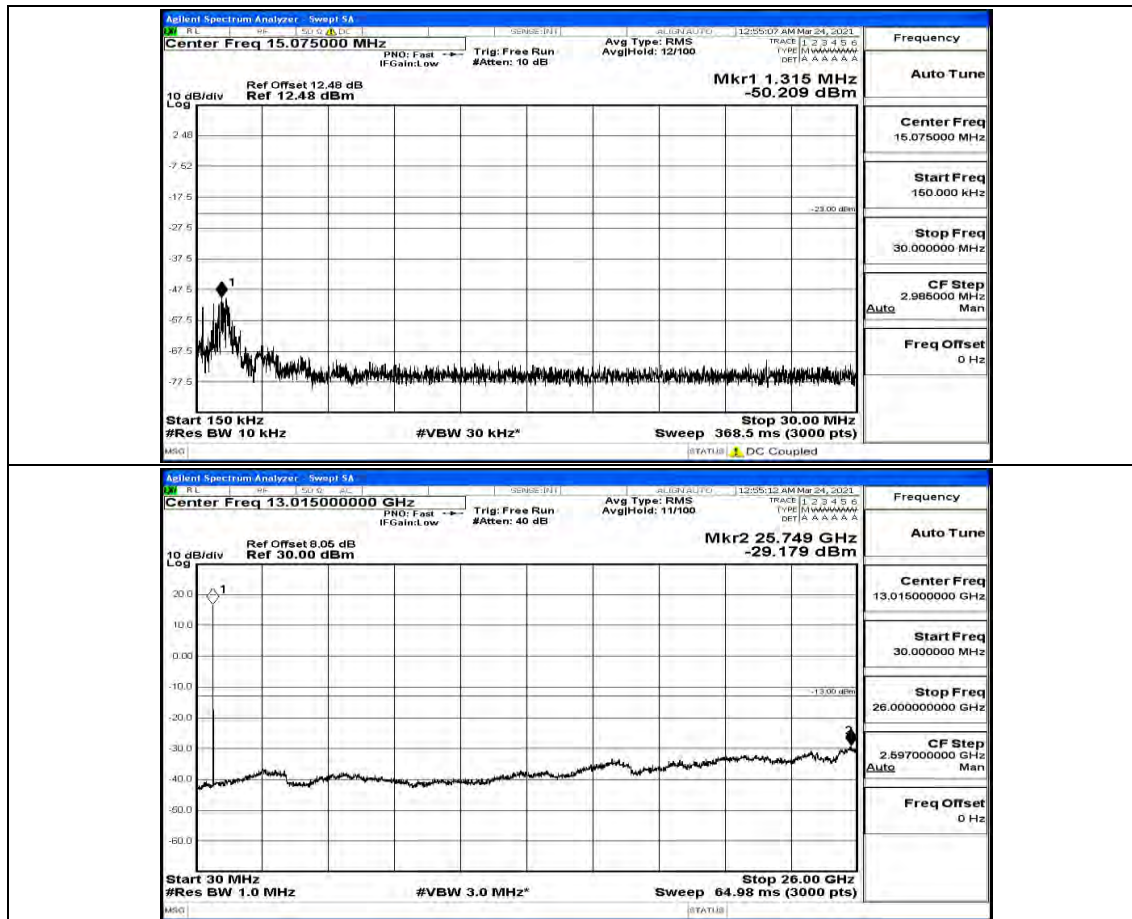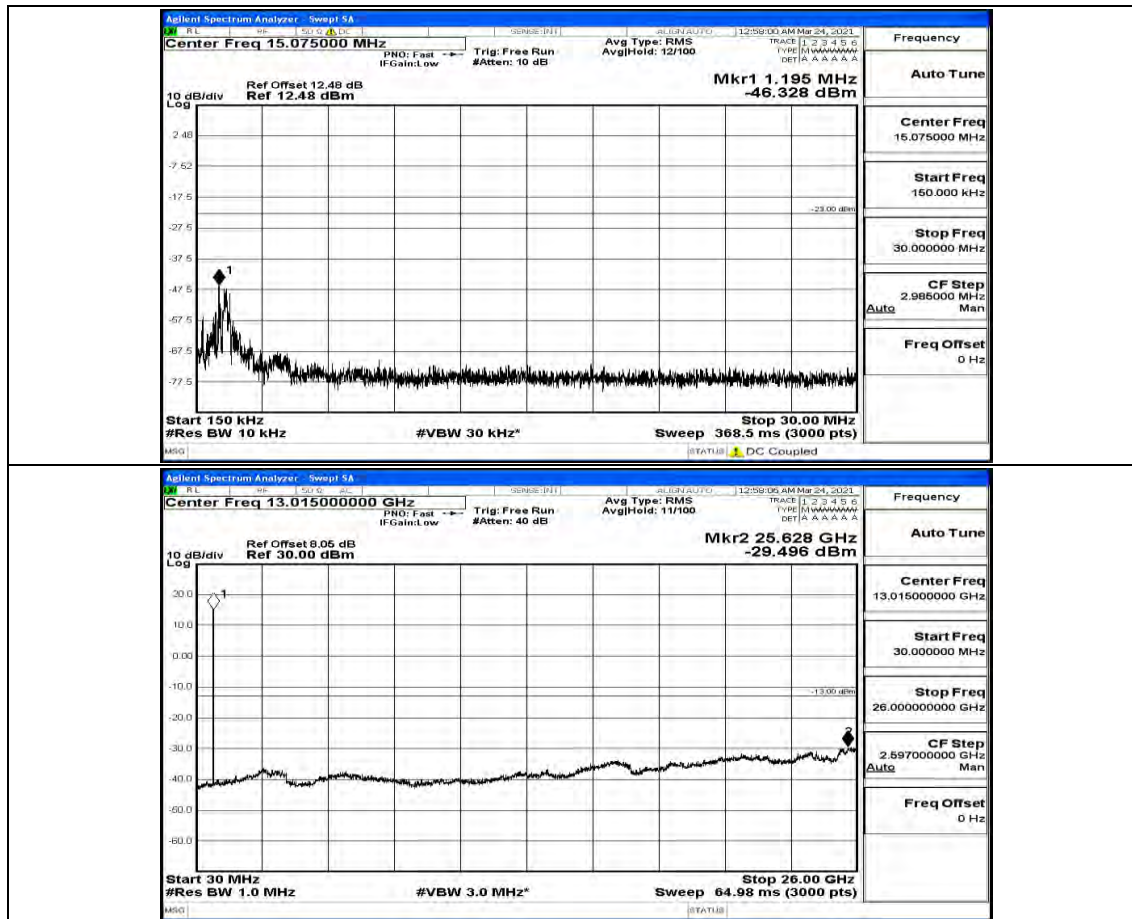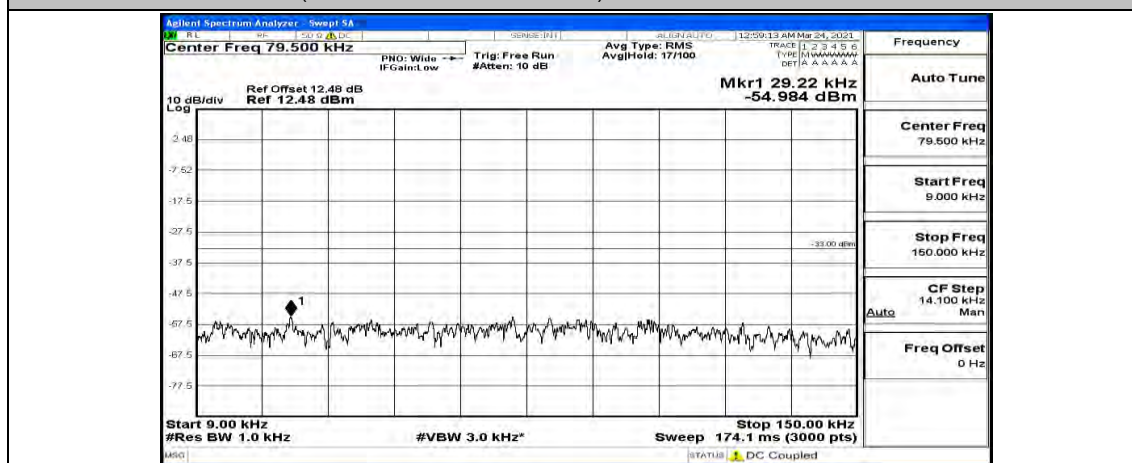
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0
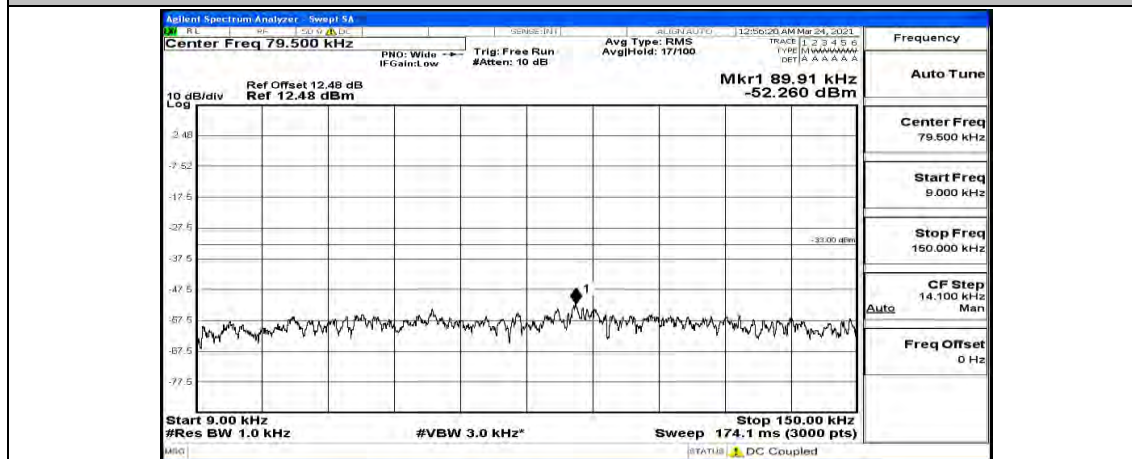
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12
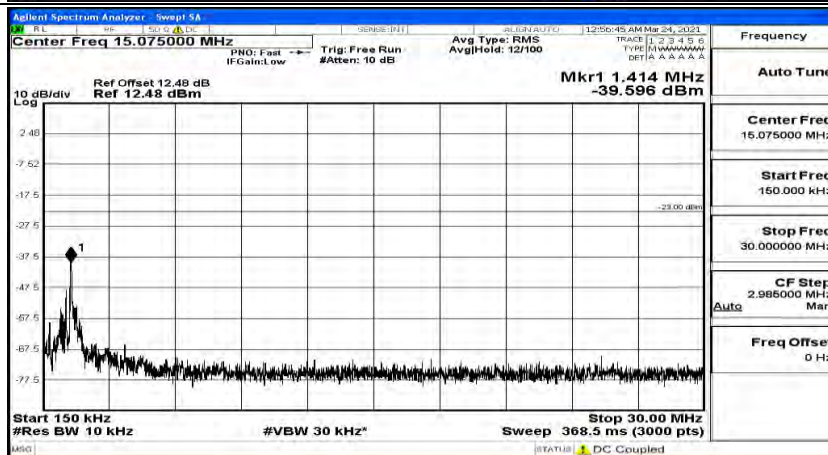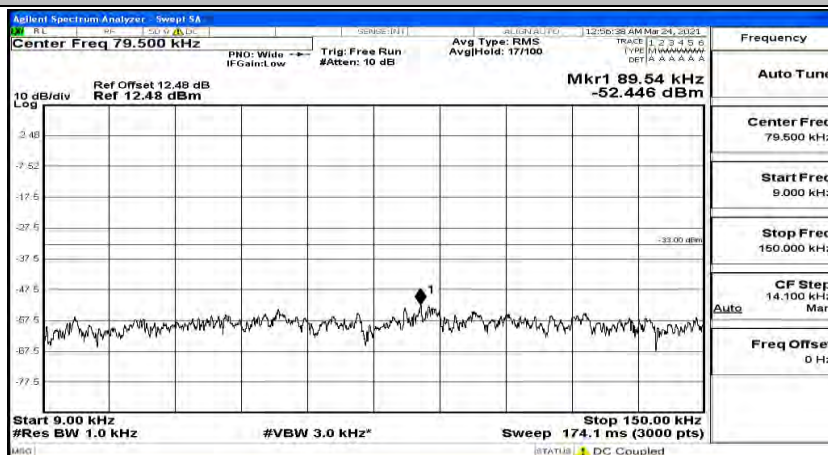
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24
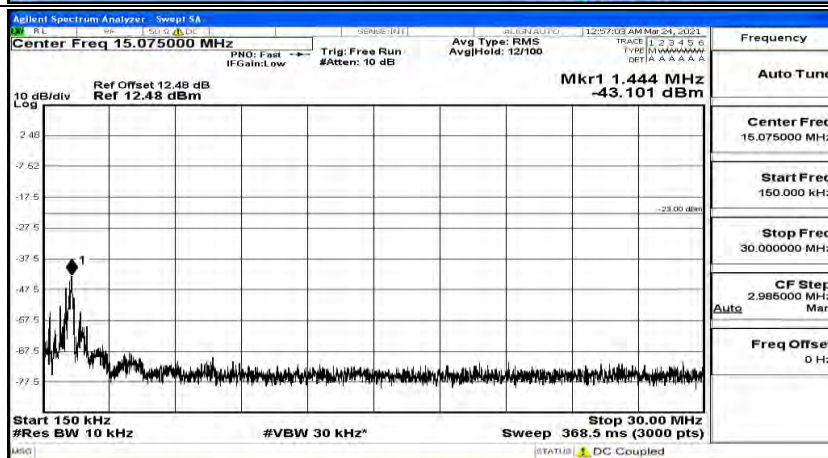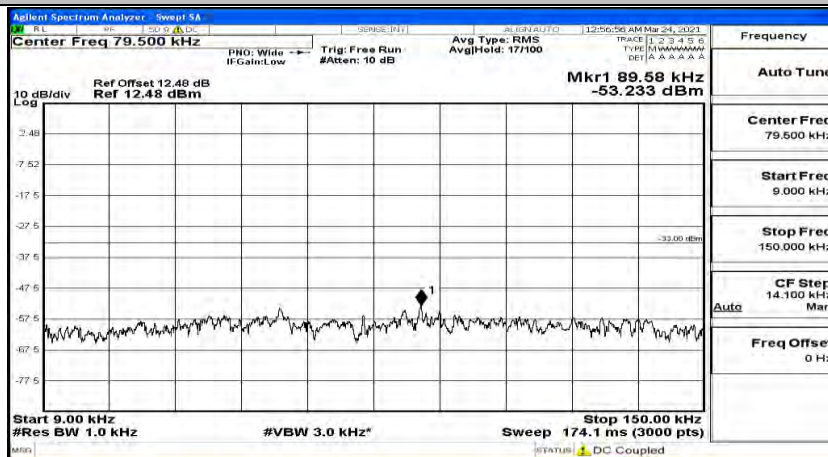
This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 21 of 46

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 22 of 46
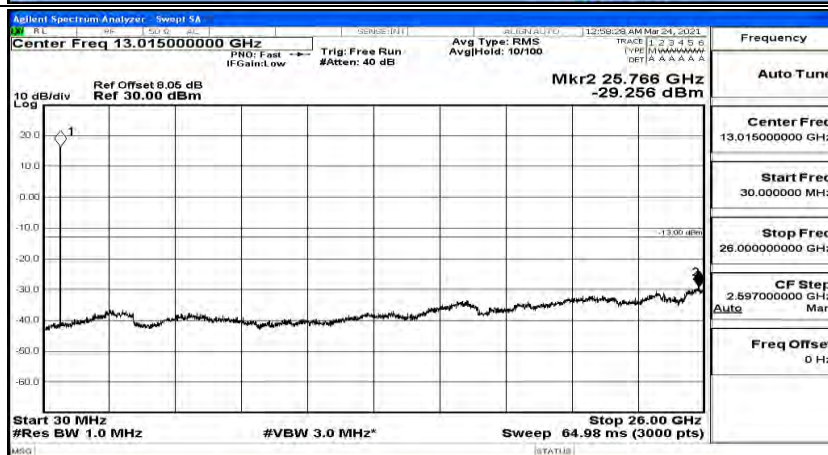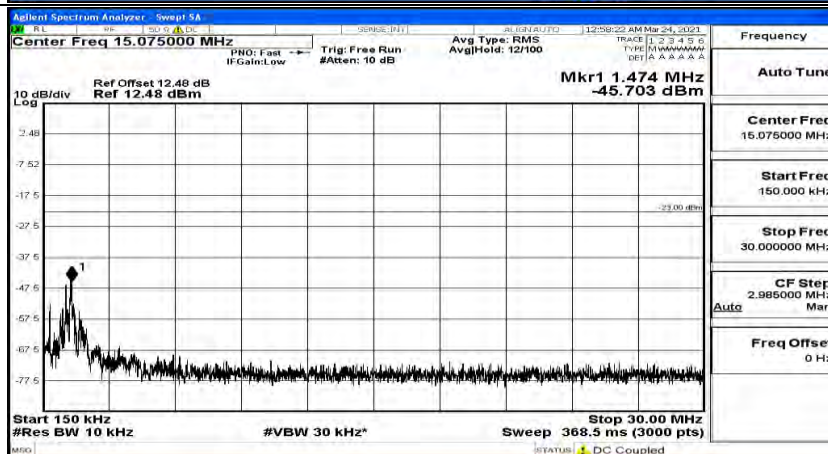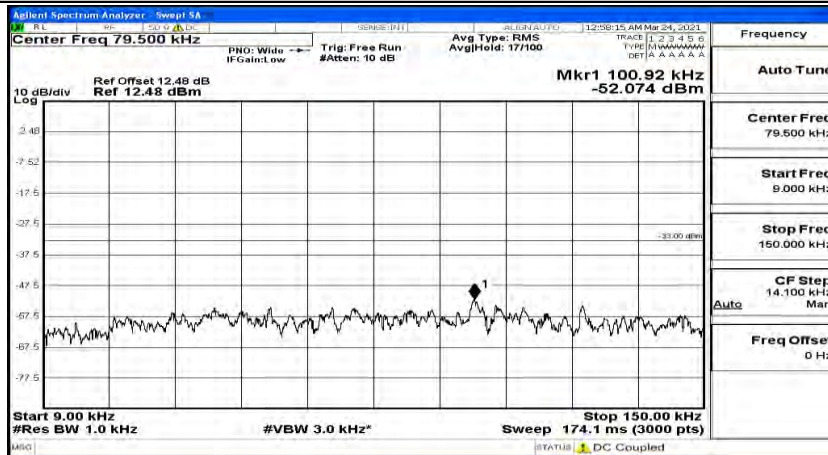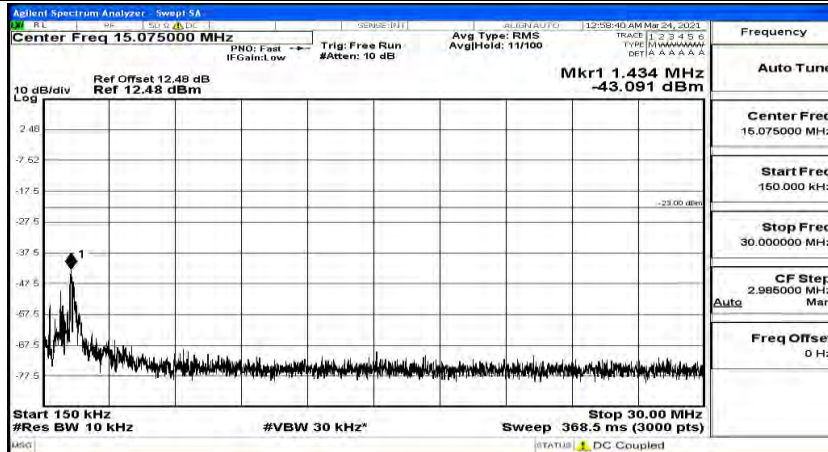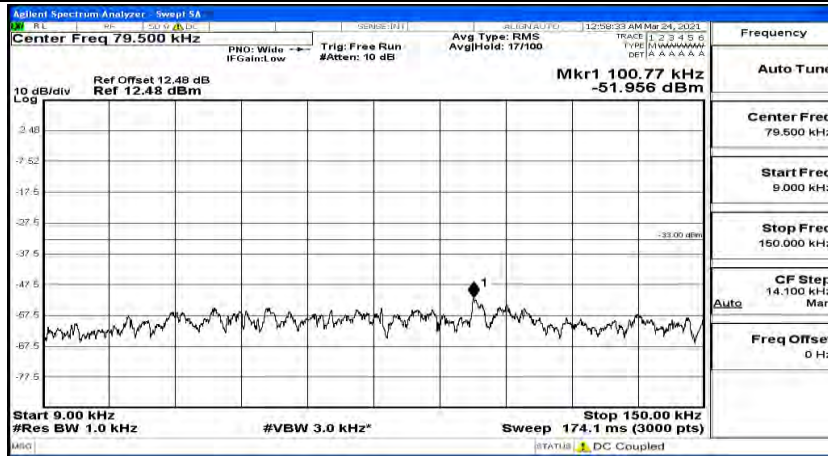
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24
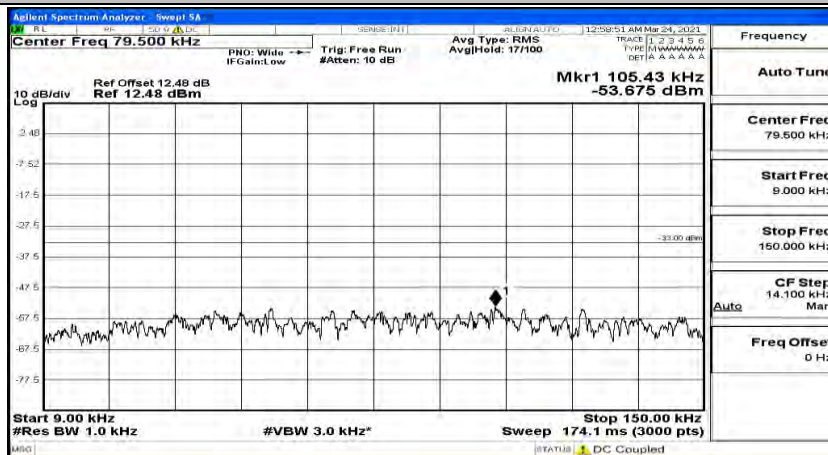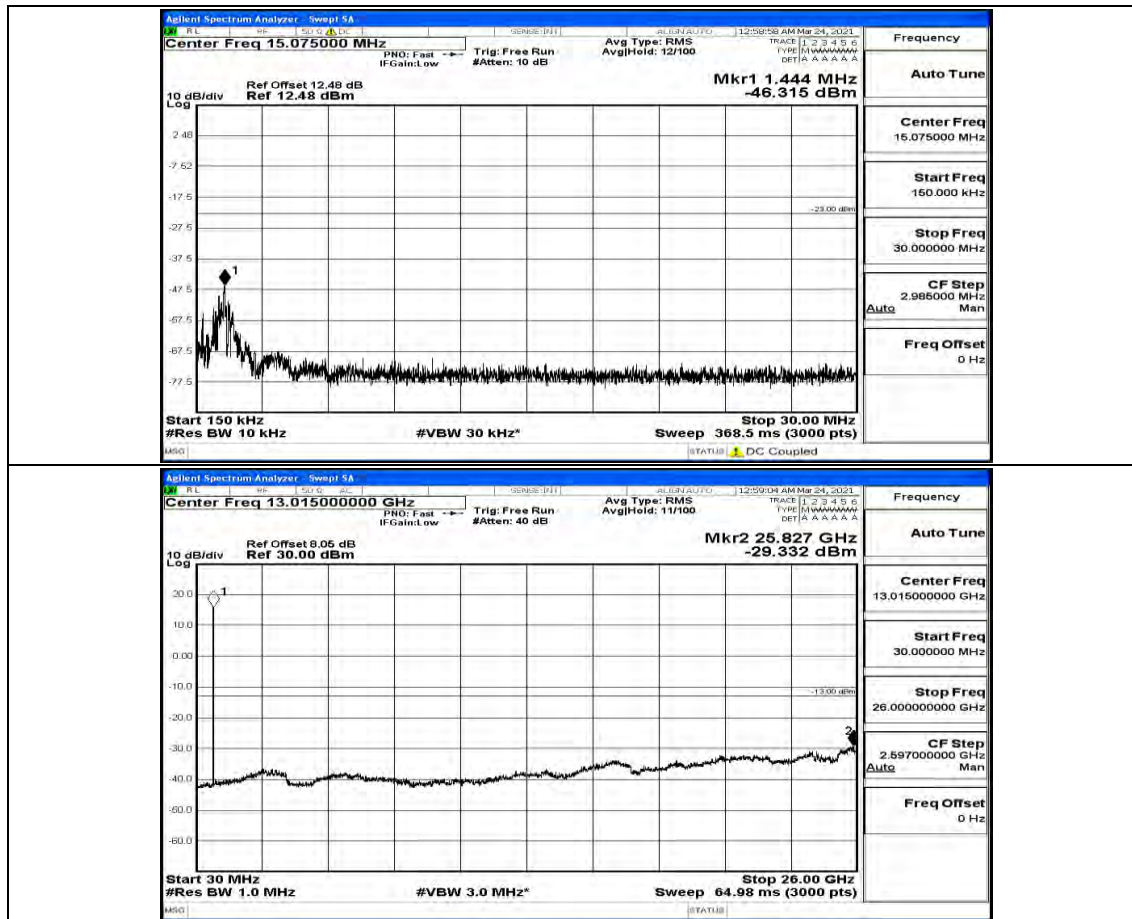
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0
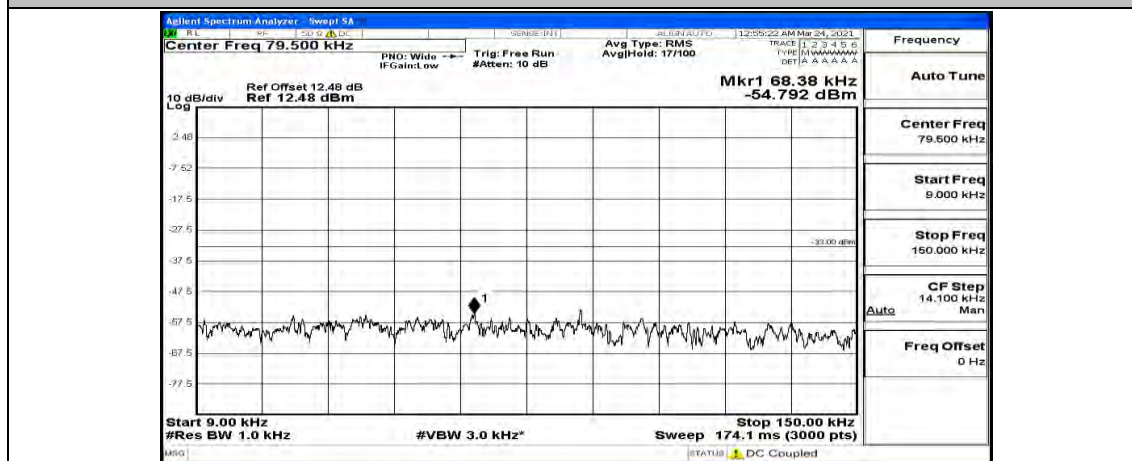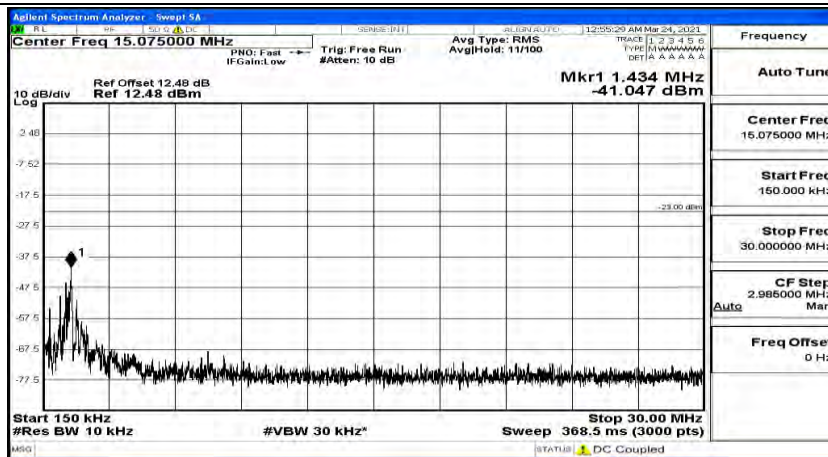
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12
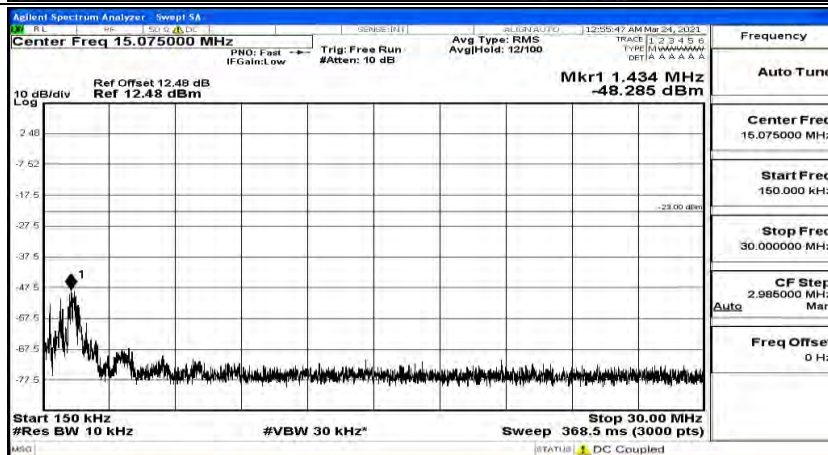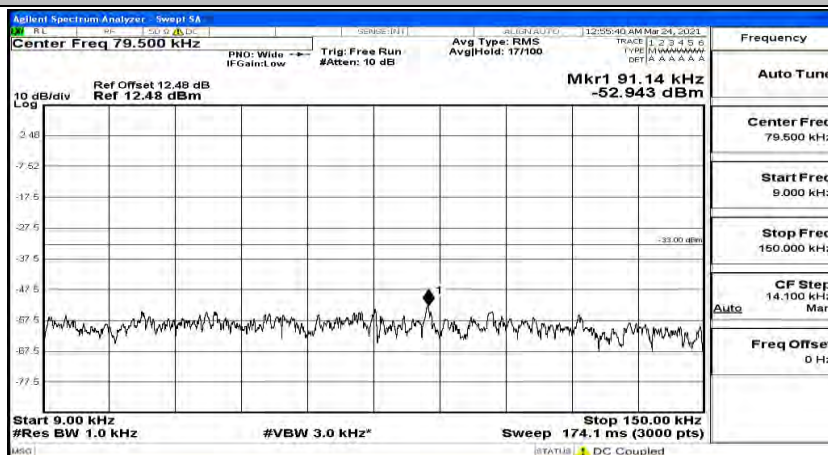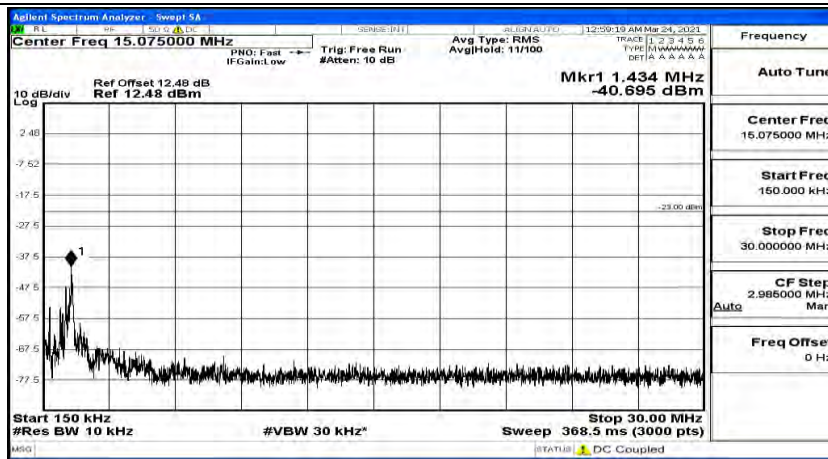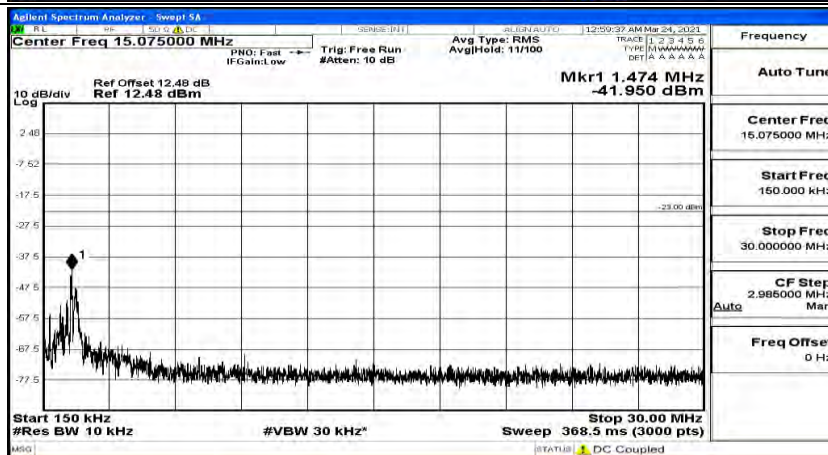
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24
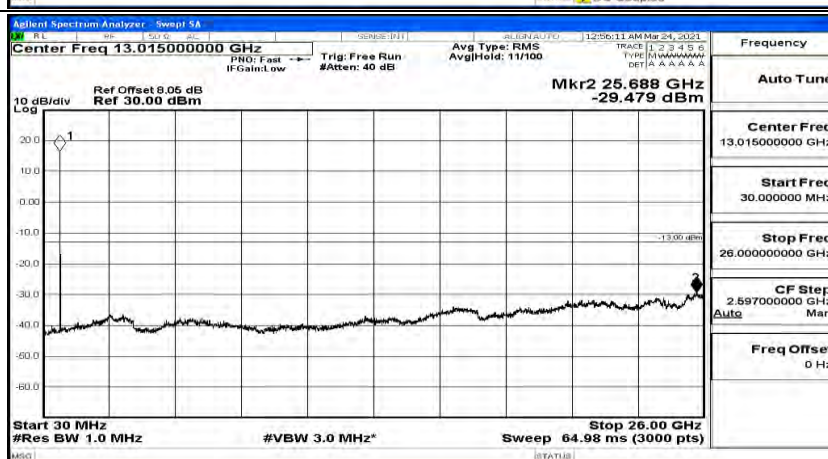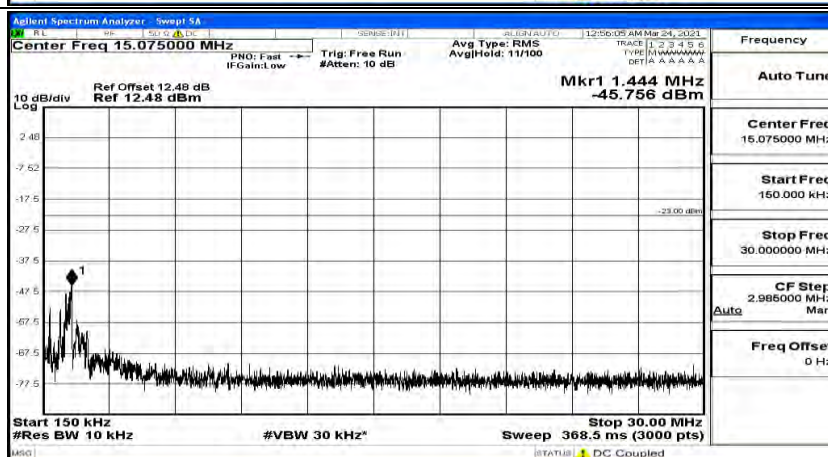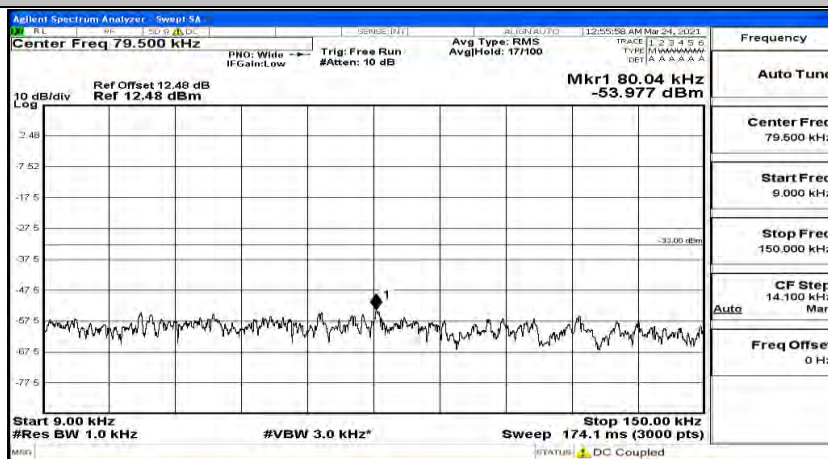
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0
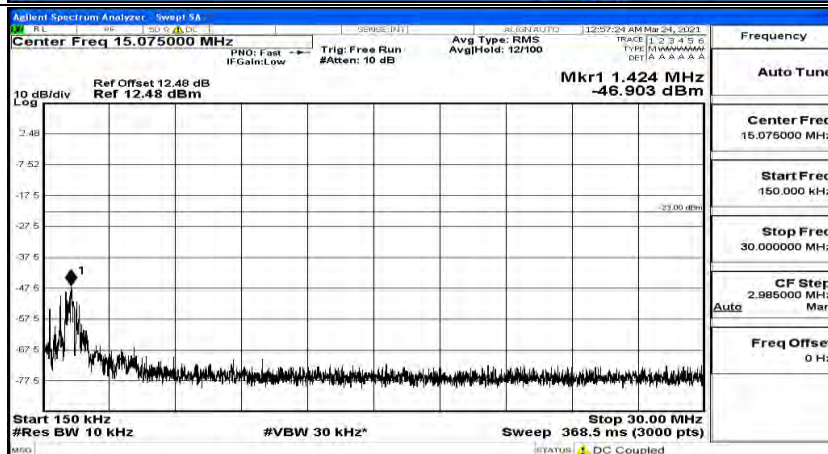
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

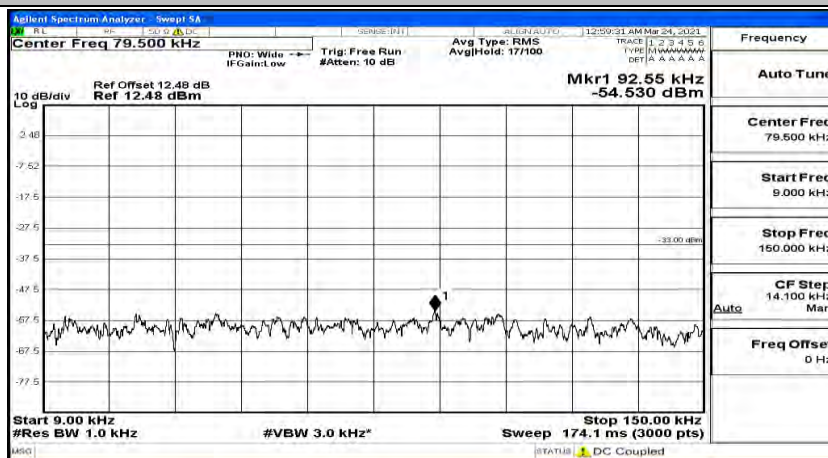(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

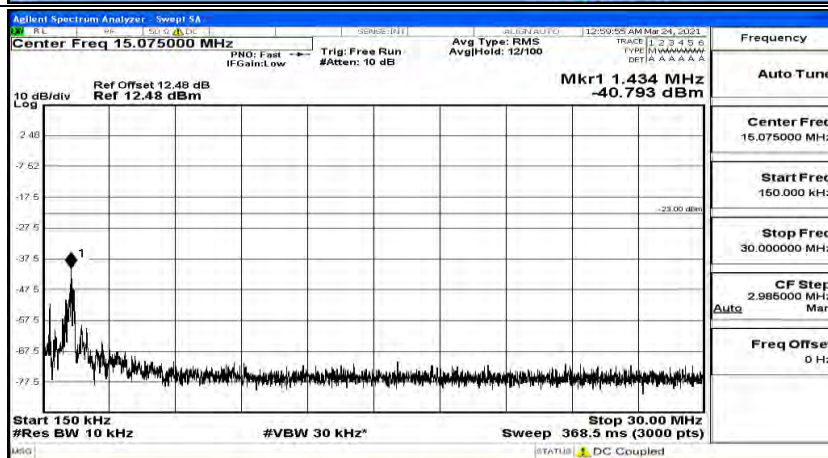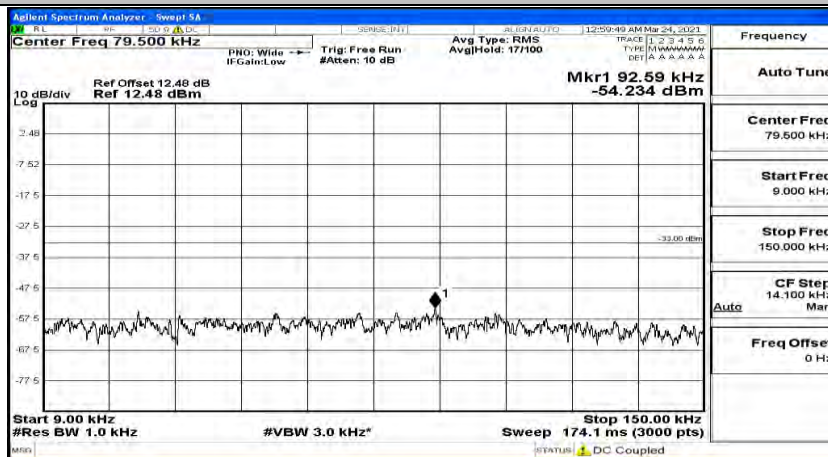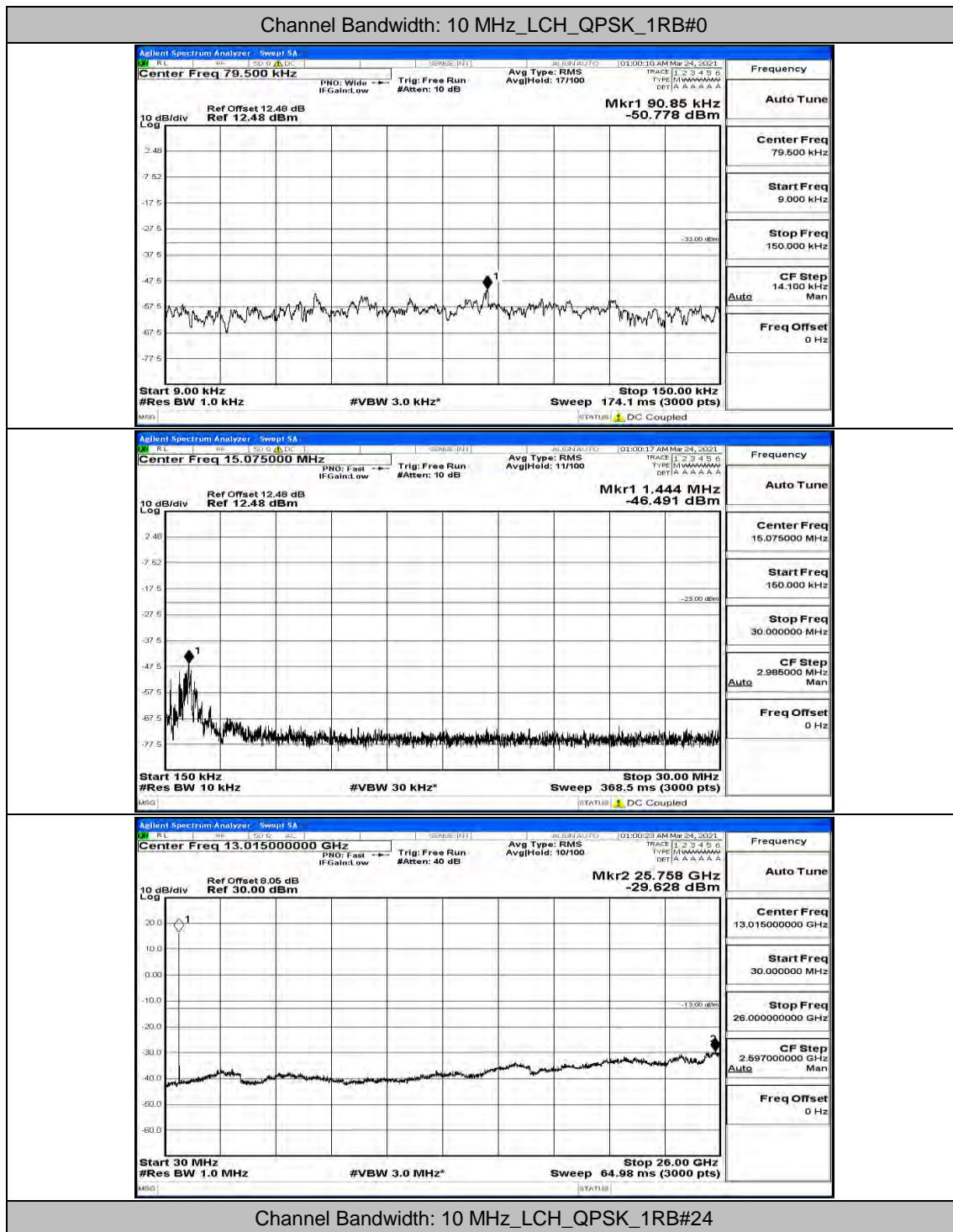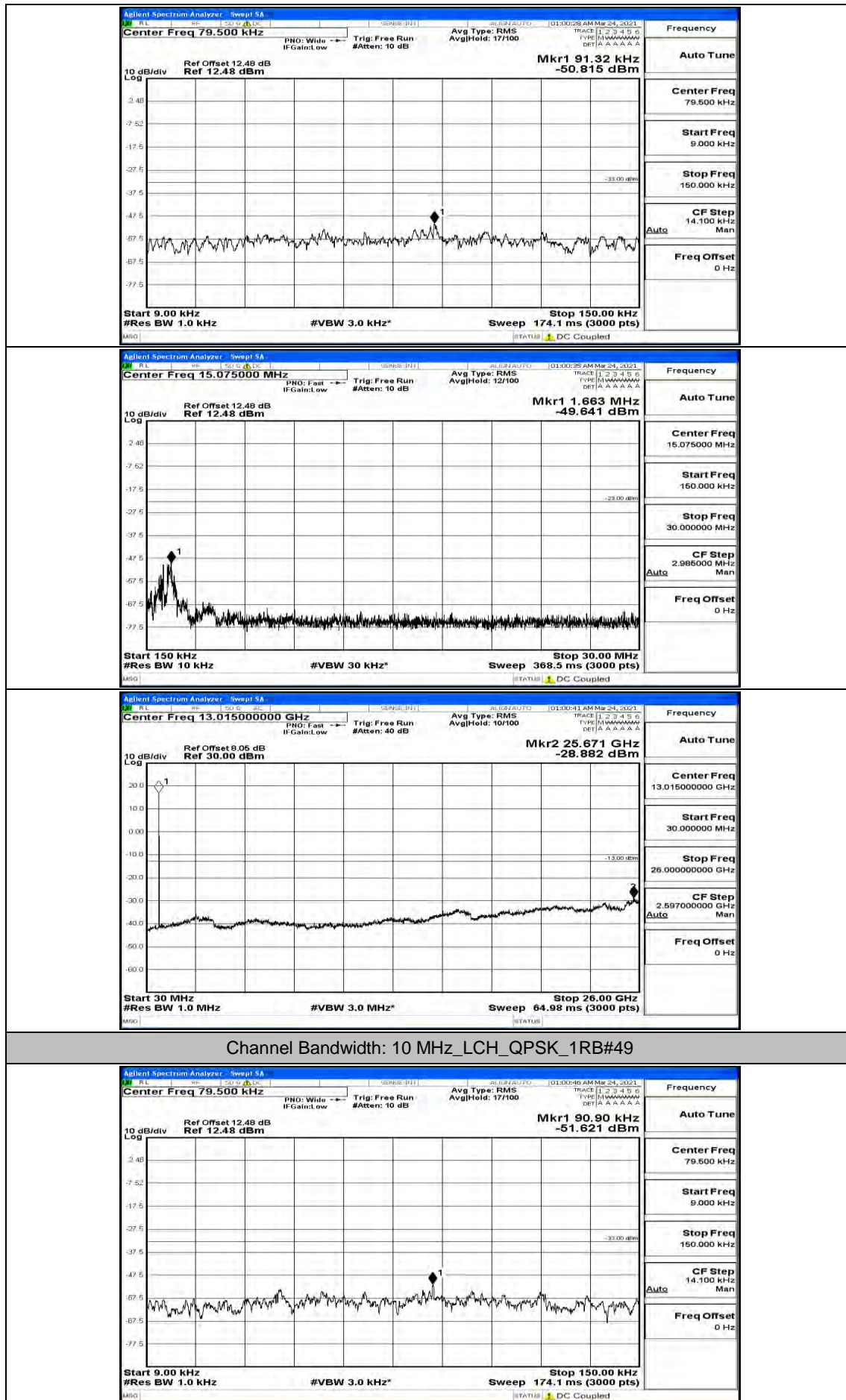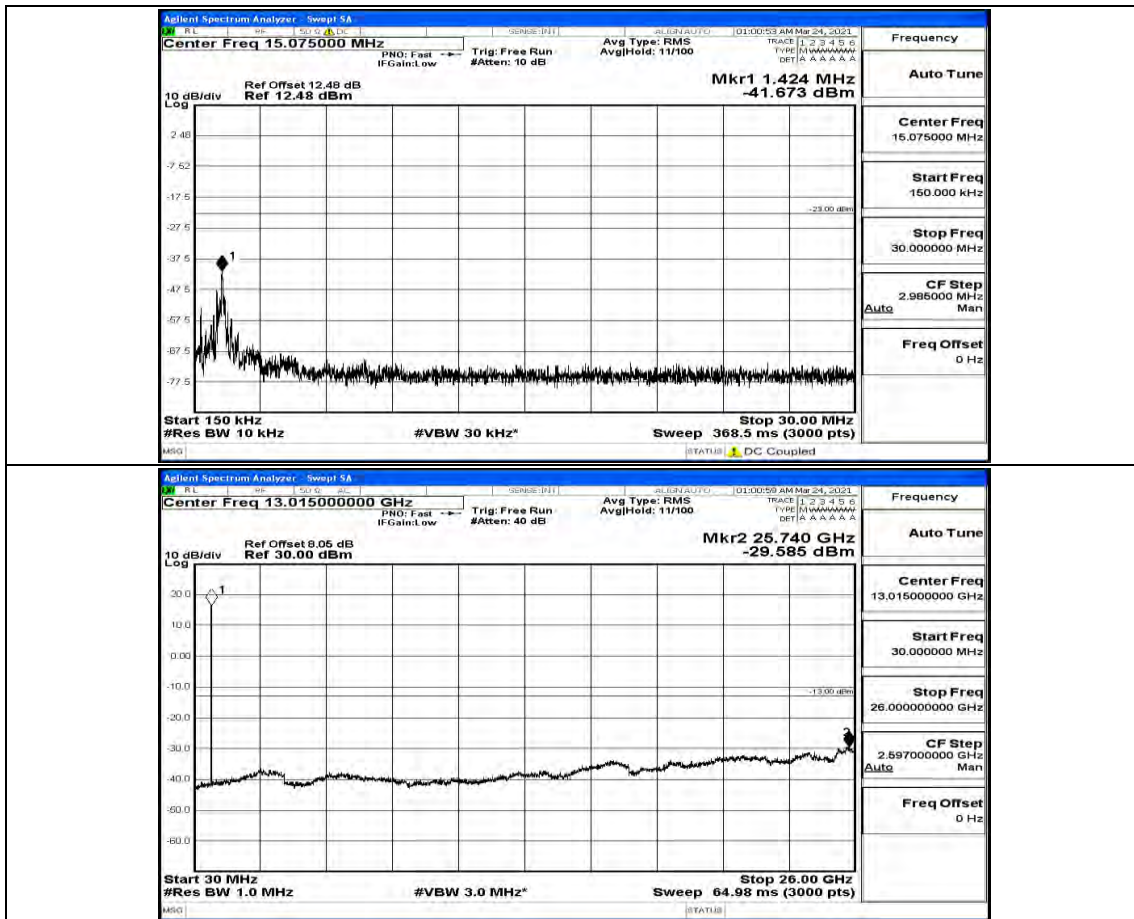(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

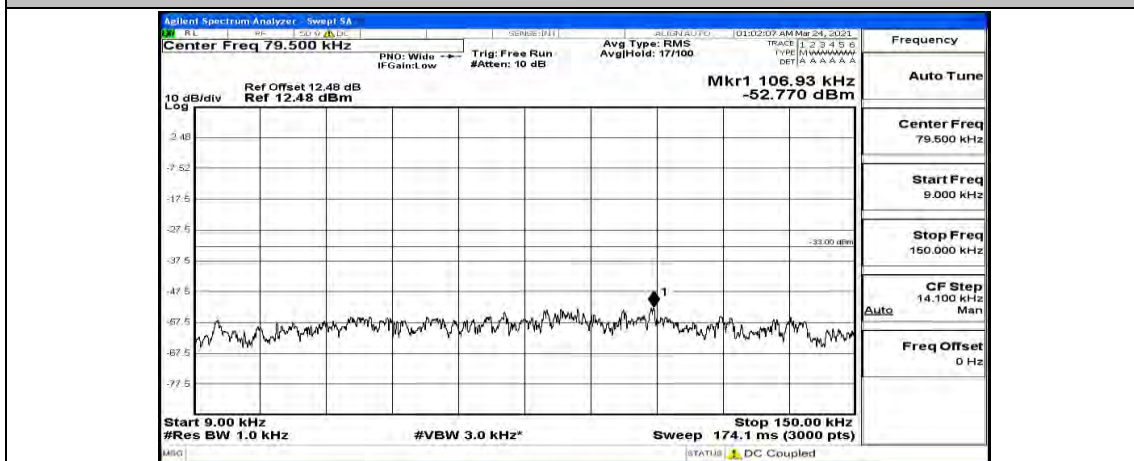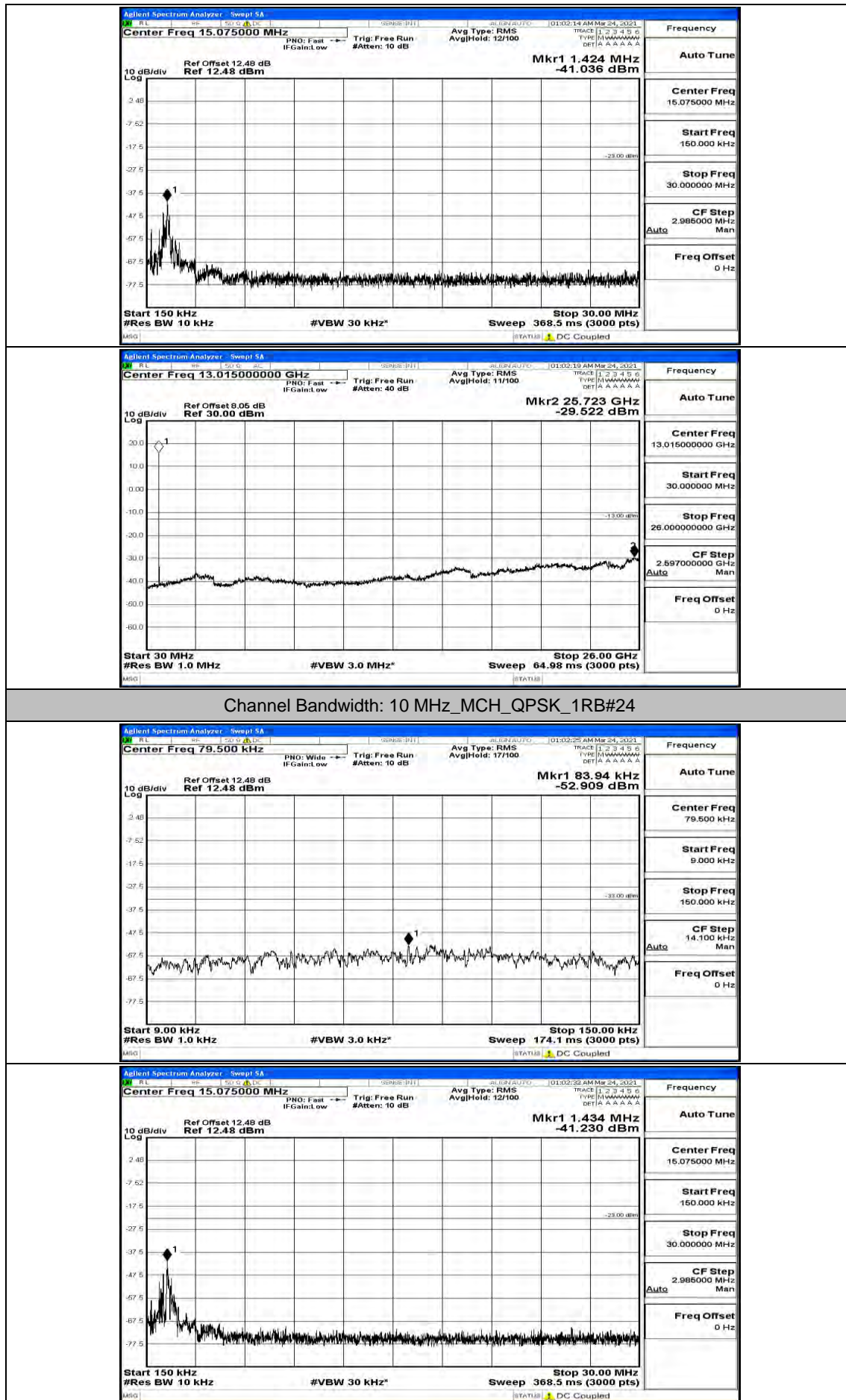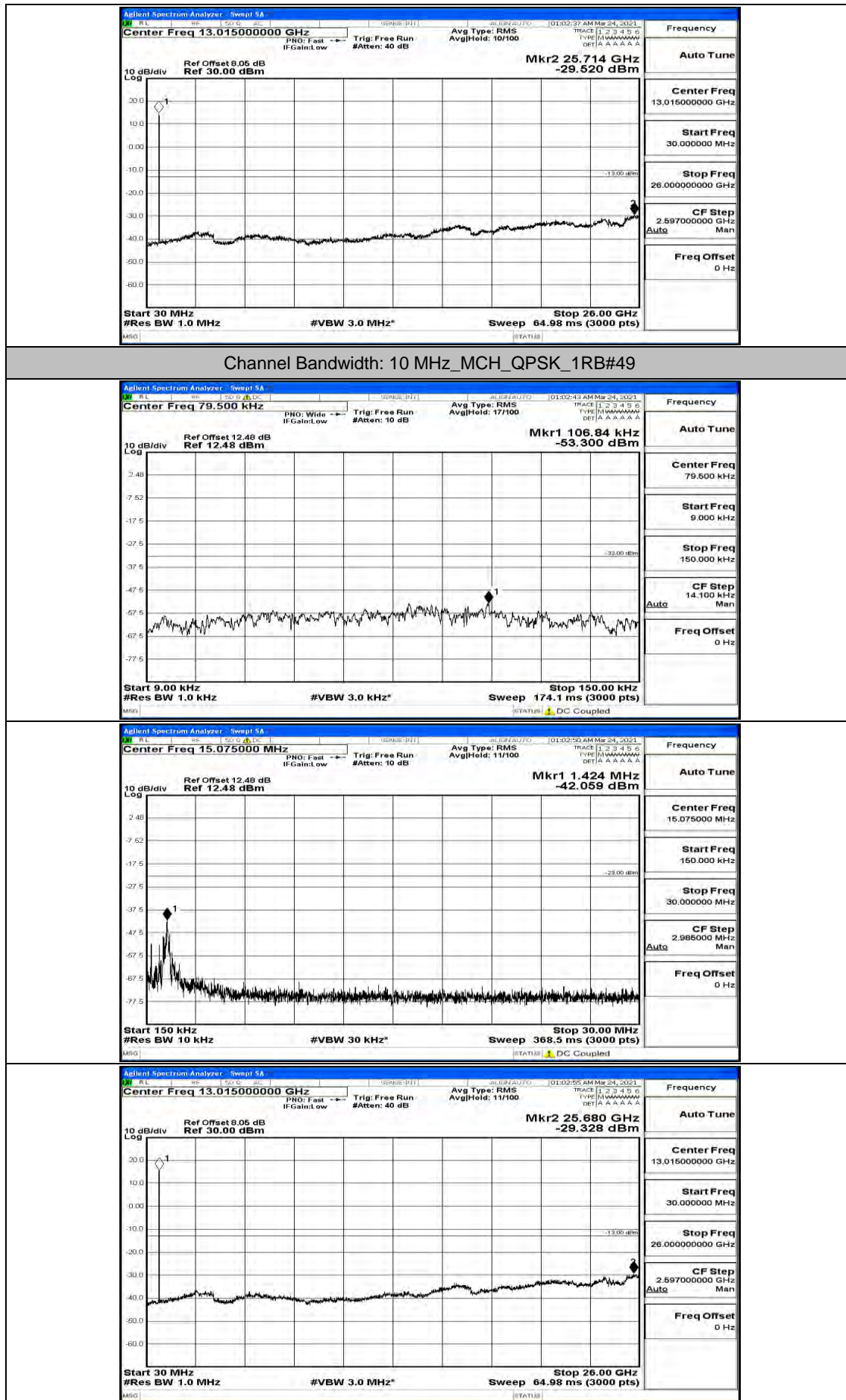(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

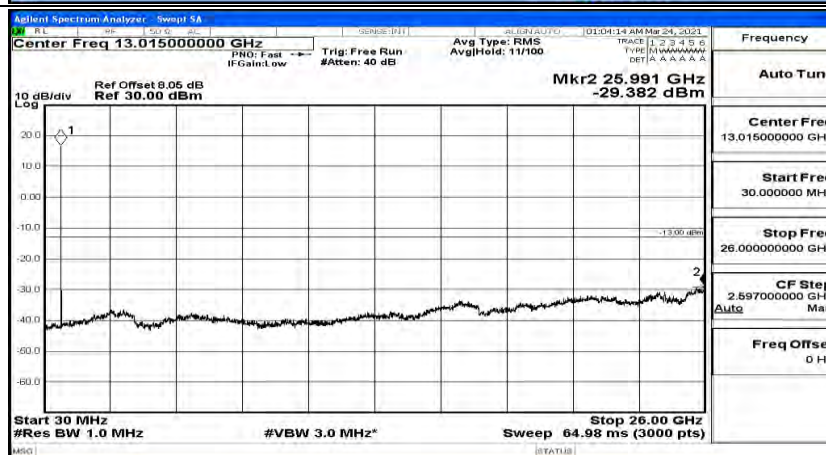

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 34 of 46
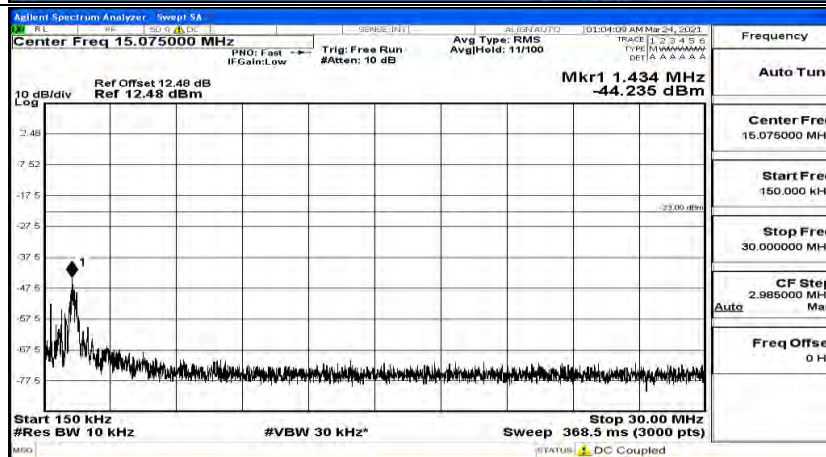
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24
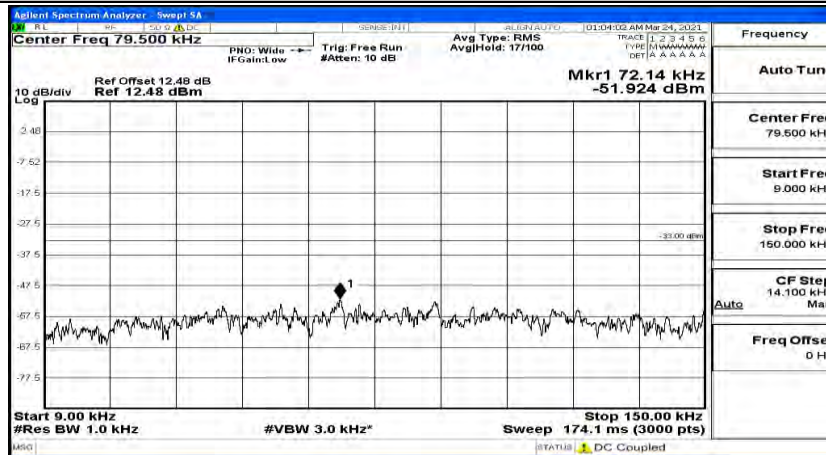
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49
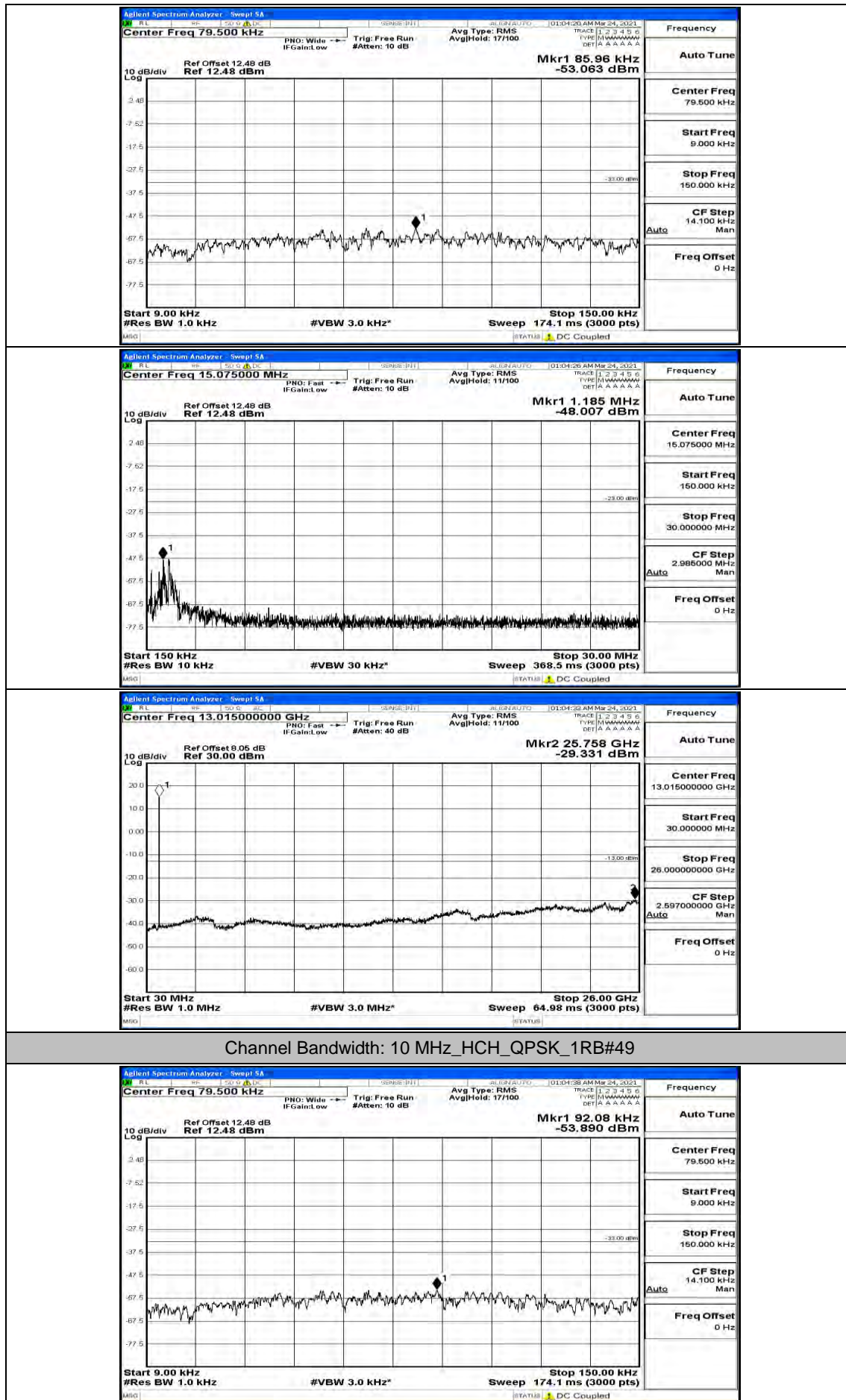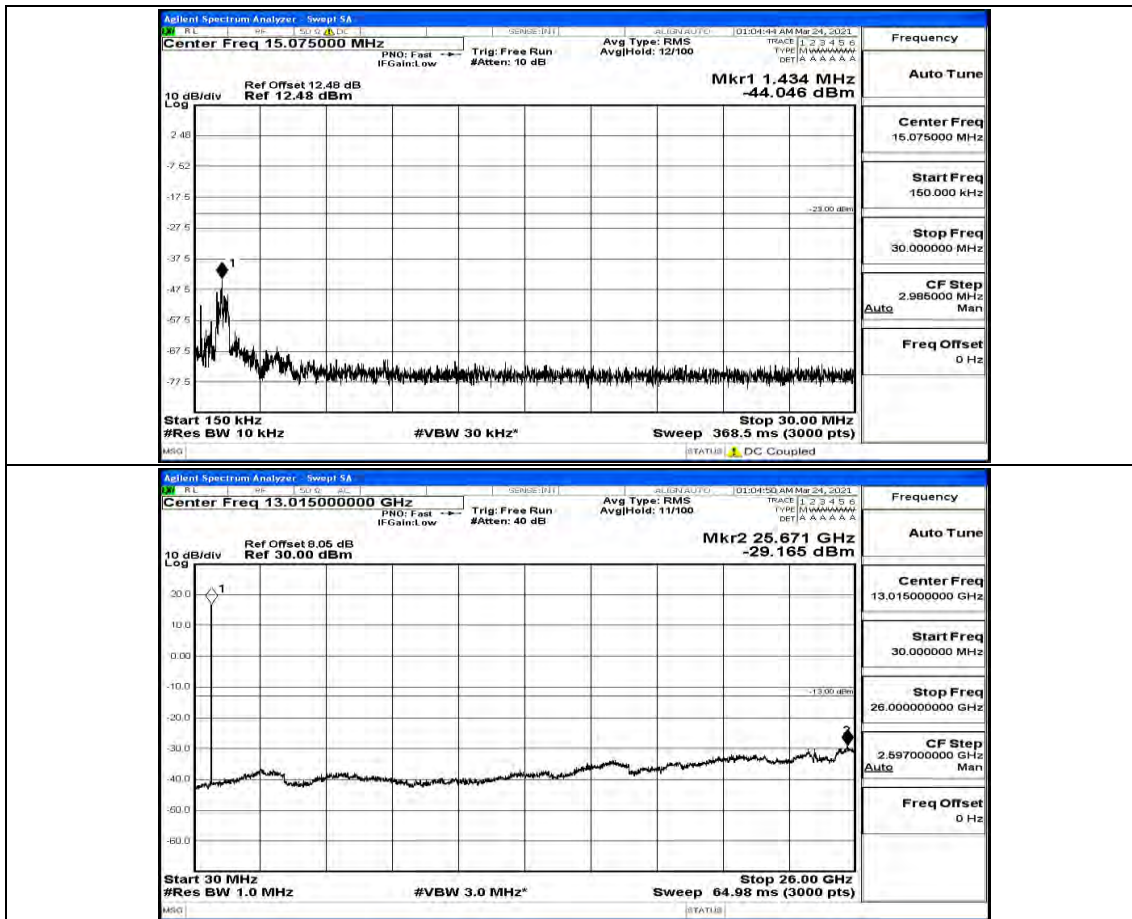
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24
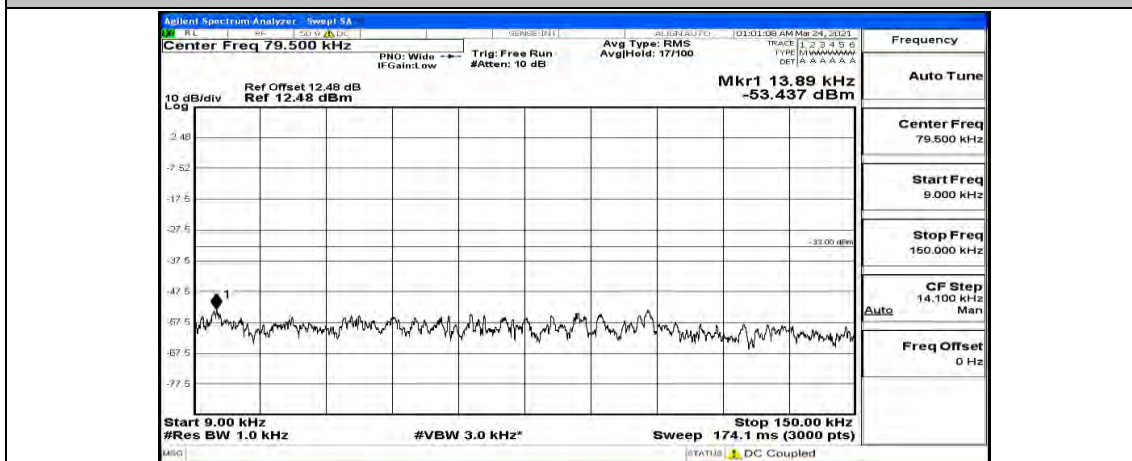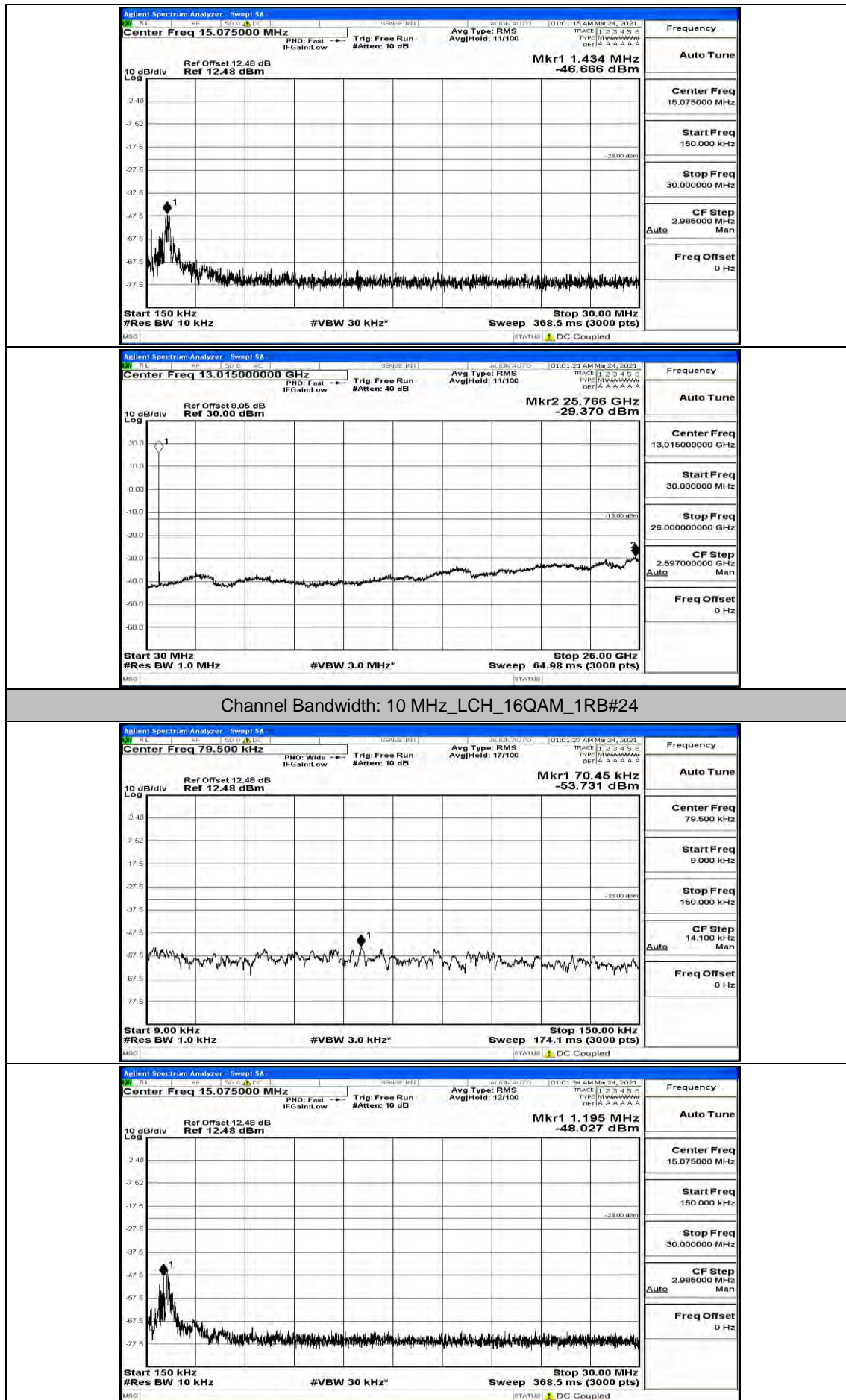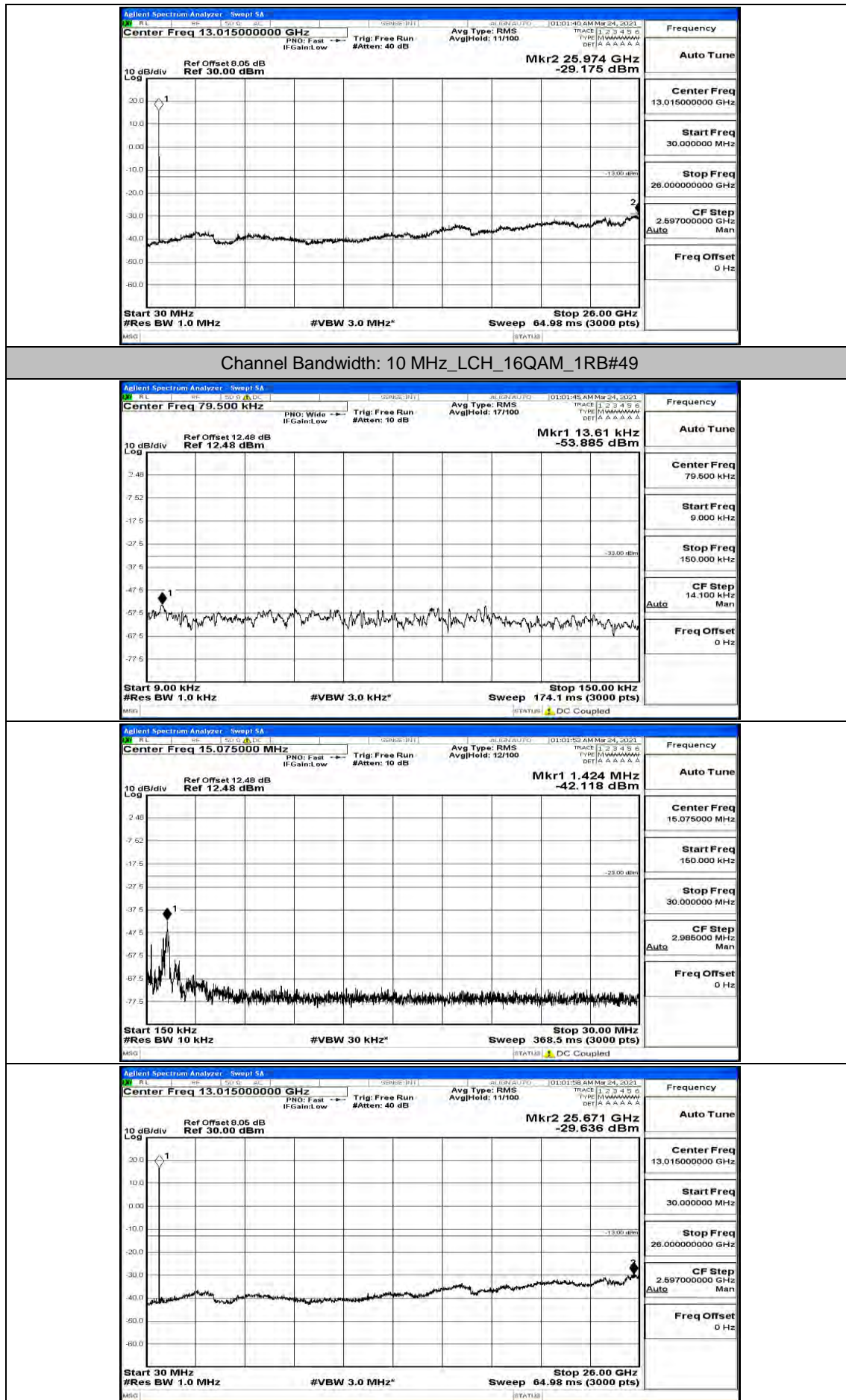
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 40 of 46

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0
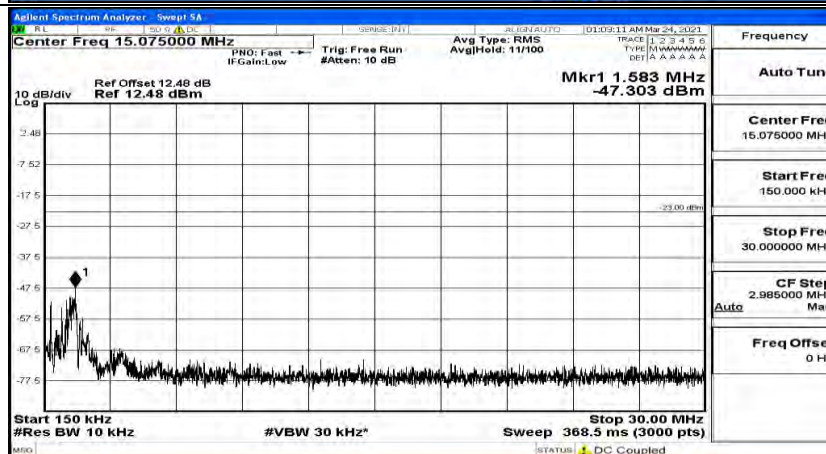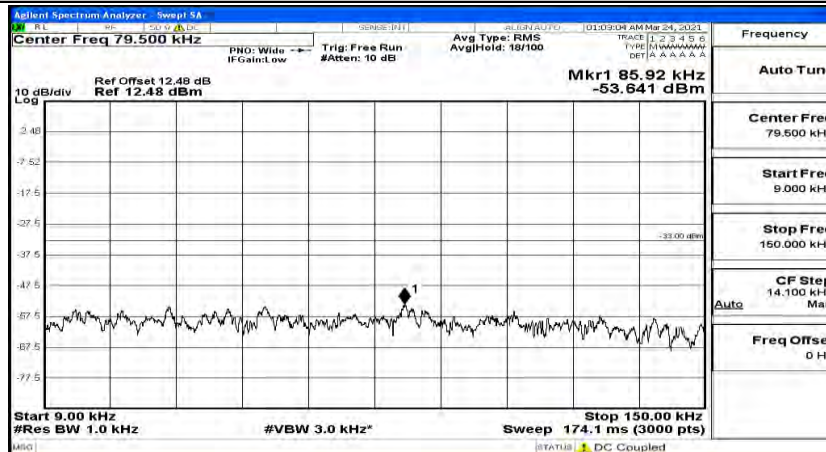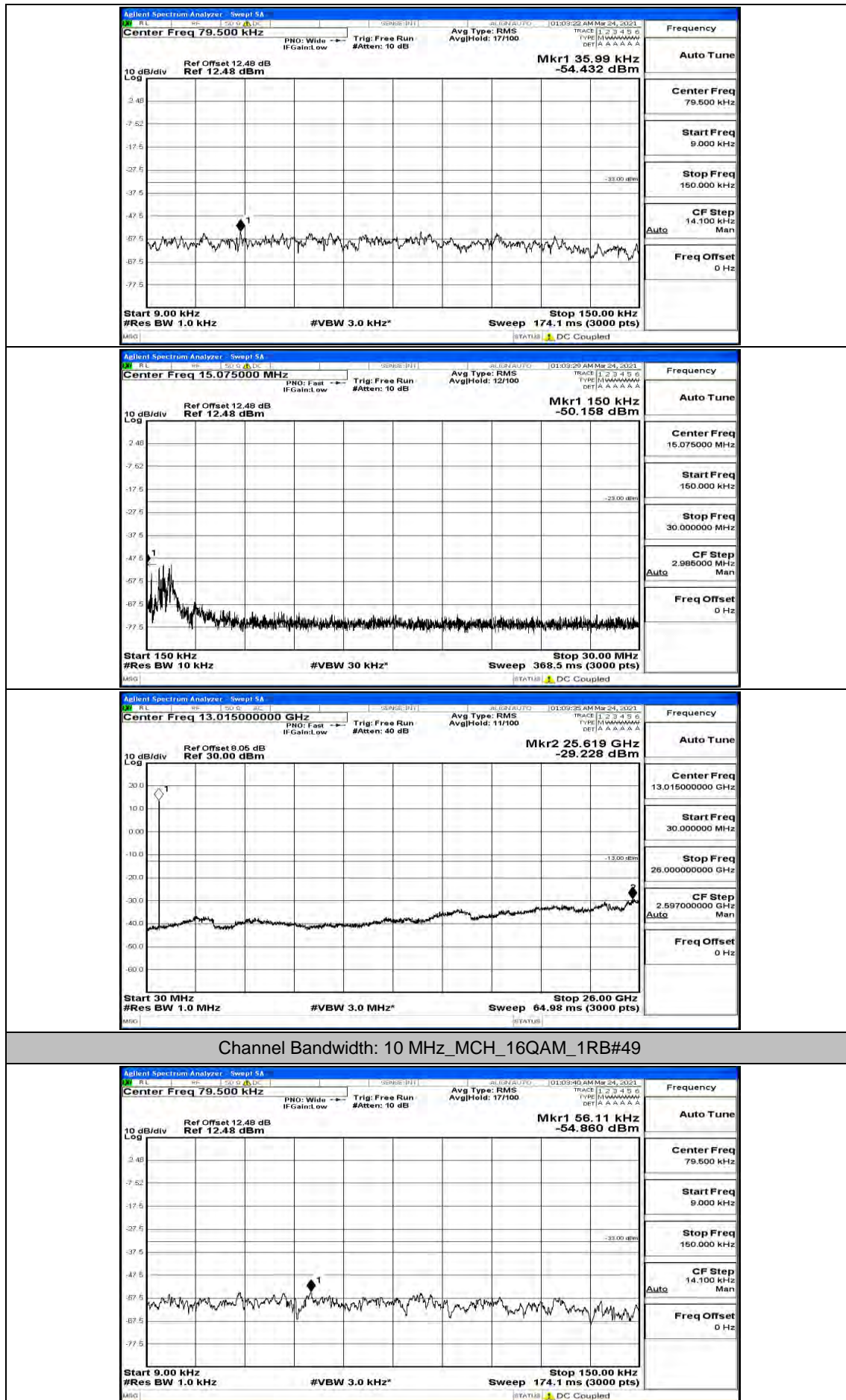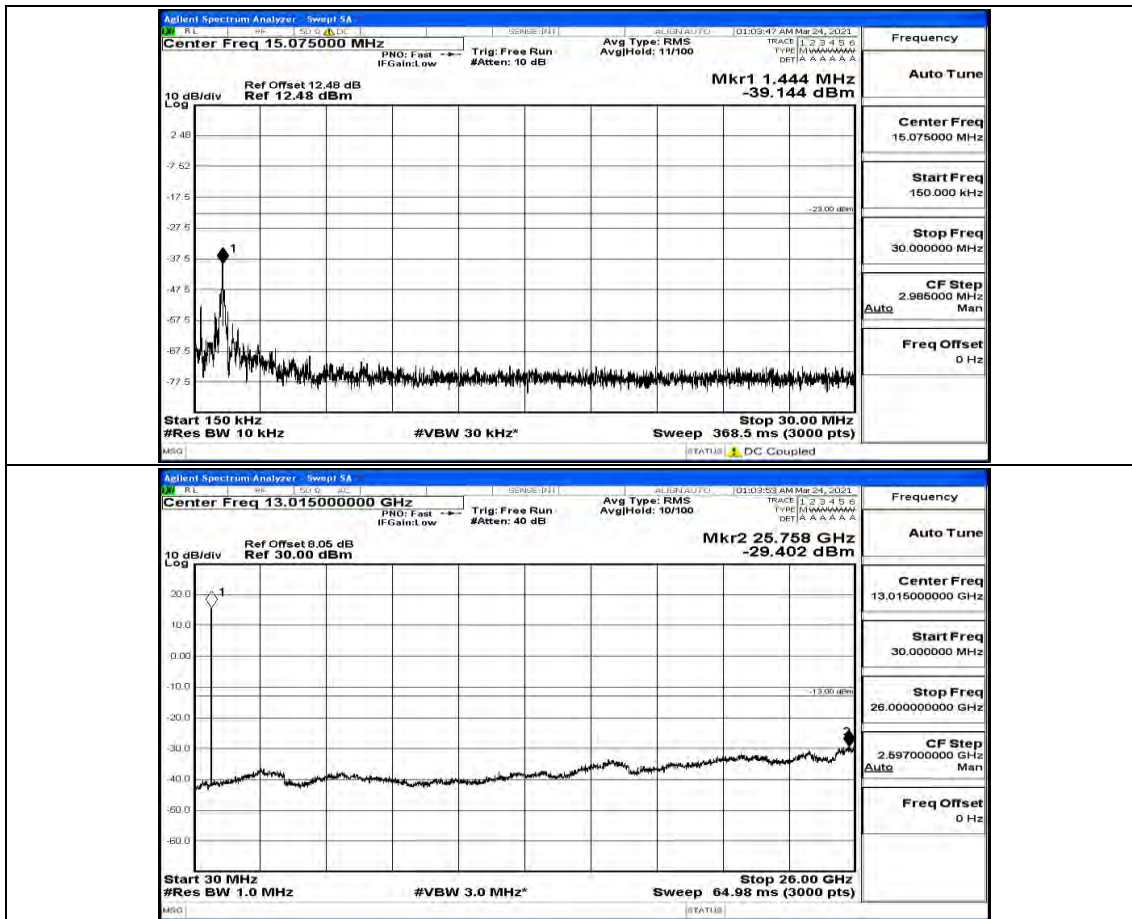

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

Page 45 of 46

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49