

RF Test Data for LTE (Conducted Measurement)

Product Name: Real-time temperature logger

Trade Mark: Frigga

Test Model: V5C Non-Li(4G-60)

Sample ID: TZ220603347-1#

FCC ID: 2ATWZ-V5X4G

Environmental Conditions

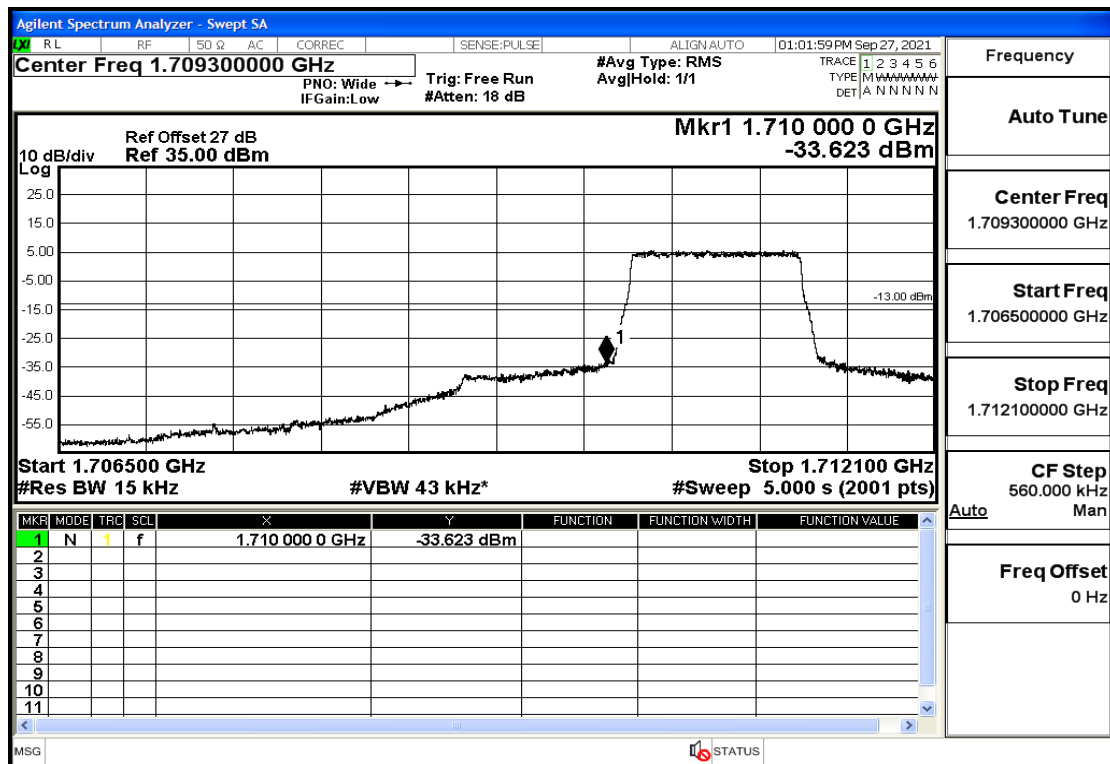
Temperature:	23.5℃
Relative Humidity:	57%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
Remark:	For LTE Band4

Band Edge and Emission Mask

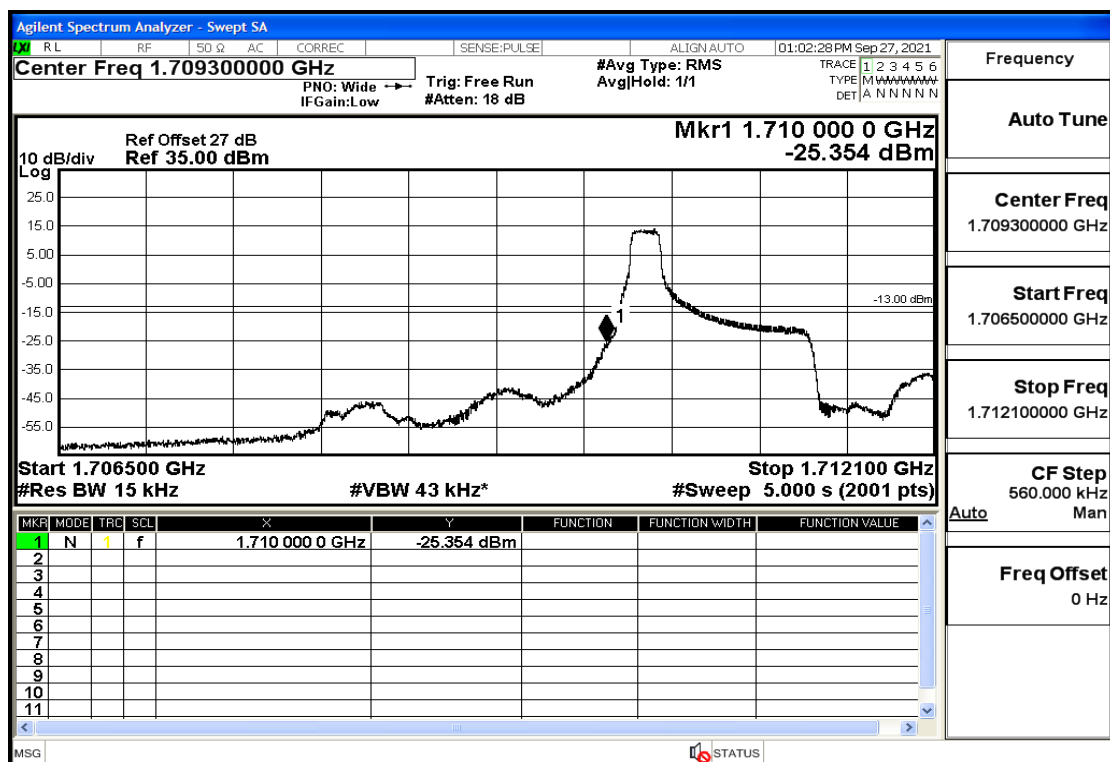
Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Conclusion
Band4	1.4	1710.7	QPSK	6	LOW	Pass
Band4	1.4	1710.7	QPSK	1	LOW	Pass
Band4	1.4	1710.7	16QAM	6	LOW	Pass
Band4	1.4	1710.7	16QAM	1	LOW	Pass
Band4	1.4	1754.3	QPSK	6	LOW	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	Pass
Band4	1.4	1754.3	16QAM	6	LOW	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	Pass
Band4	3	1711.5	QPSK	15	LOW	Pass
Band4	3	1711.5	QPSK	1	LOW	Pass
Band4	3	1711.5	16QAM	15	LOW	Pass
Band4	3	1711.5	16QAM	1	LOW	Pass
Band4	3	1753.5	QPSK	15	LOW	Pass
Band4	3	1753.5	QPSK	1	HIGH	Pass
Band4	3	1753.5	16QAM	15	LOW	Pass
Band4	3	1753.5	16QAM	1	HIGH	Pass
Band4	5	1712.5	QPSK	25	LOW	Pass
Band4	5	1712.5	QPSK	1	LOW	Pass
Band4	5	1712.5	16QAM	25	LOW	Pass
Band4	5	1712.5	16QAM	1	LOW	Pass
Band4	5	1752.5	QPSK	25	LOW	Pass
Band4	5	1752.5	QPSK	1	HIGH	Pass
Band4	5	1752.5	16QAM	25	LOW	Pass
Band4	5	1752.5	16QAM	1	HIGH	Pass
Band4	10	1715	QPSK	50	LOW	Pass
Band4	10	1715	QPSK	1	LOW	Pass
Band4	10	1715	16QAM	12	LOW	Pass
Band4	10	1715	16QAM	1	LOW	Pass
Band4	10	1750	QPSK	50	LOW	Pass
Band4	10	1750	QPSK	1	HIGH	Pass
Band4	10	1750	16QAM	12	HIGH	Pass
Band4	10	1750	16QAM	1	HIGH	Pass
Band4	15	1717.5	QPSK	75	LOW	Pass
Band4	15	1717.5	QPSK	1	LOW	Pass
Band4	15	1717.5	16QAM	16	LOW	Pass
Band4	15	1717.5	16QAM	1	LOW	Pass
Band4	15	1747.5	QPSK	75	LOW	Pass
Band4	15	1747.5	QPSK	1	HIGH	Pass
Band4	15	1747.5	16QAM	16	HIGH	Pass
Band4	15	1747.5	16QAM	1	HIGH	Pass
Band4	20	1720	QPSK	100	LOW	Pass

Band4	20	1720	QPSK	1	LOW	Pass
Band4	20	1720	16QAM	18	LOW	Pass
Band4	20	1720	16QAM	1	LOW	Pass
Band4	20	1745	QPSK	100	LOW	Pass
Band4	20	1745	QPSK	1	HIGH	Pass
Band4	20	1745	16QAM	18	HIGH	Pass
Band4	20	1745	16QAM	1	HIGH	Pass

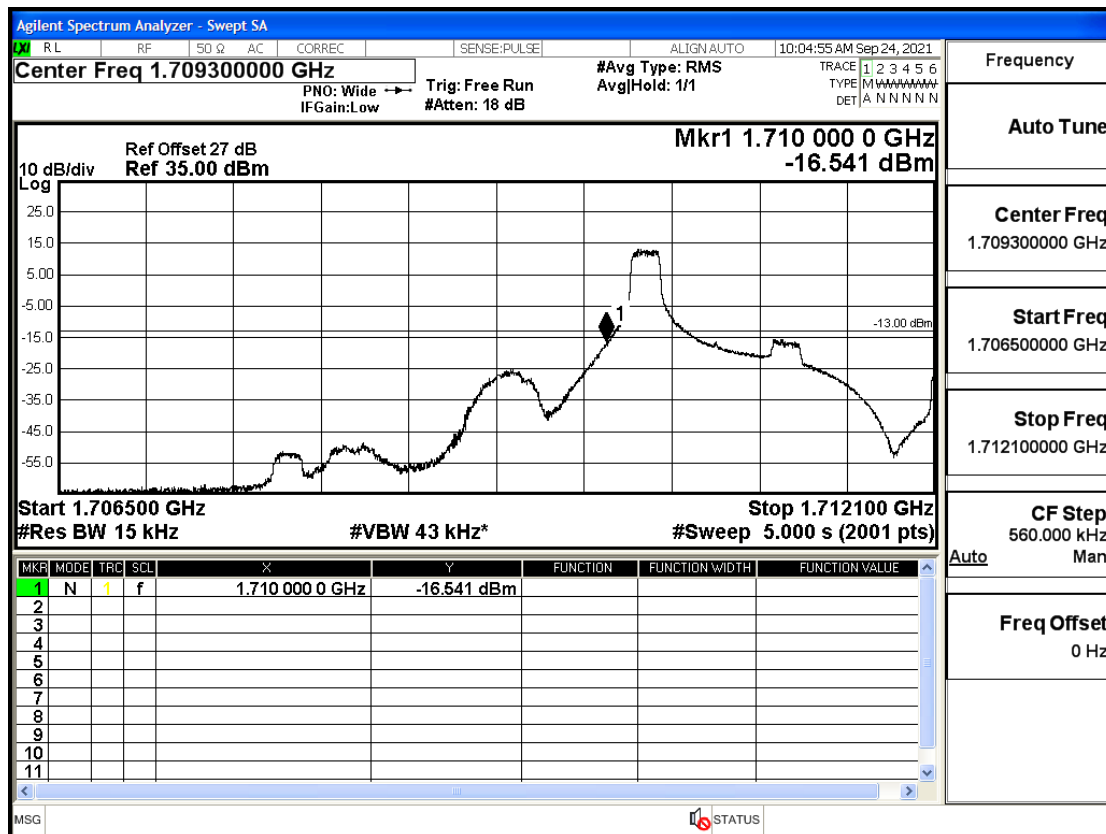
Band4-1.4-1710.7-QPSK-6#LOW@Pass



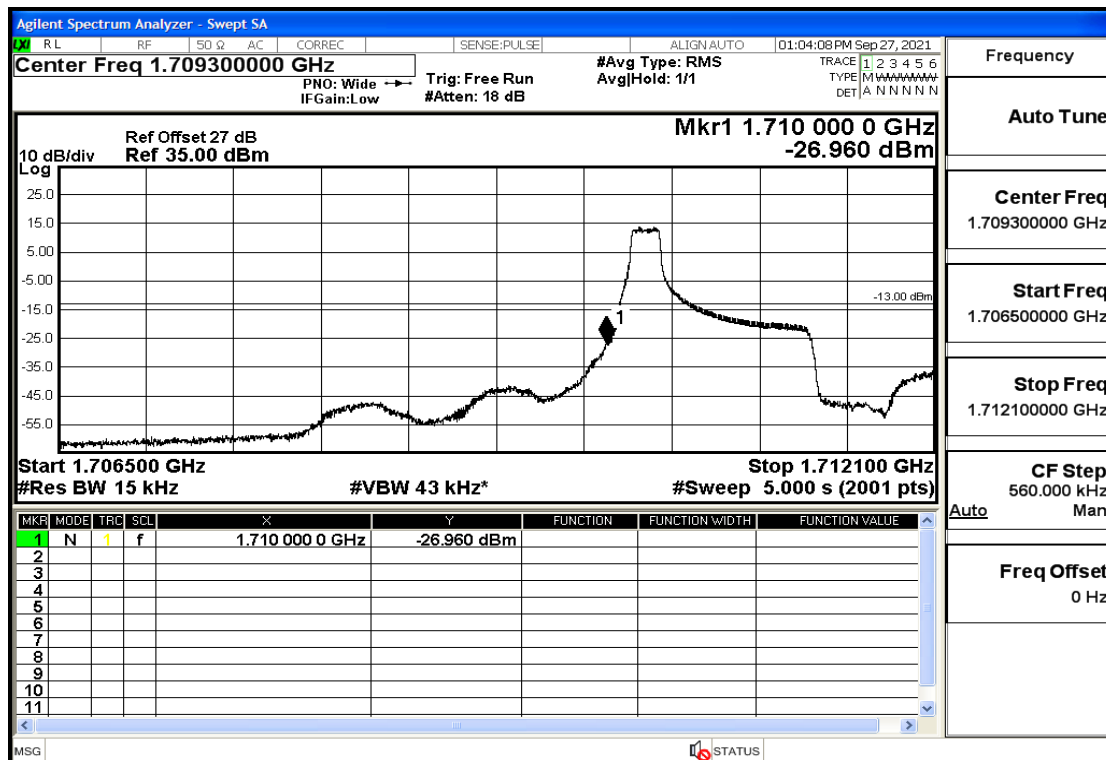
Band4-1.4-1710.7-QPSK-1#LOW@Pass



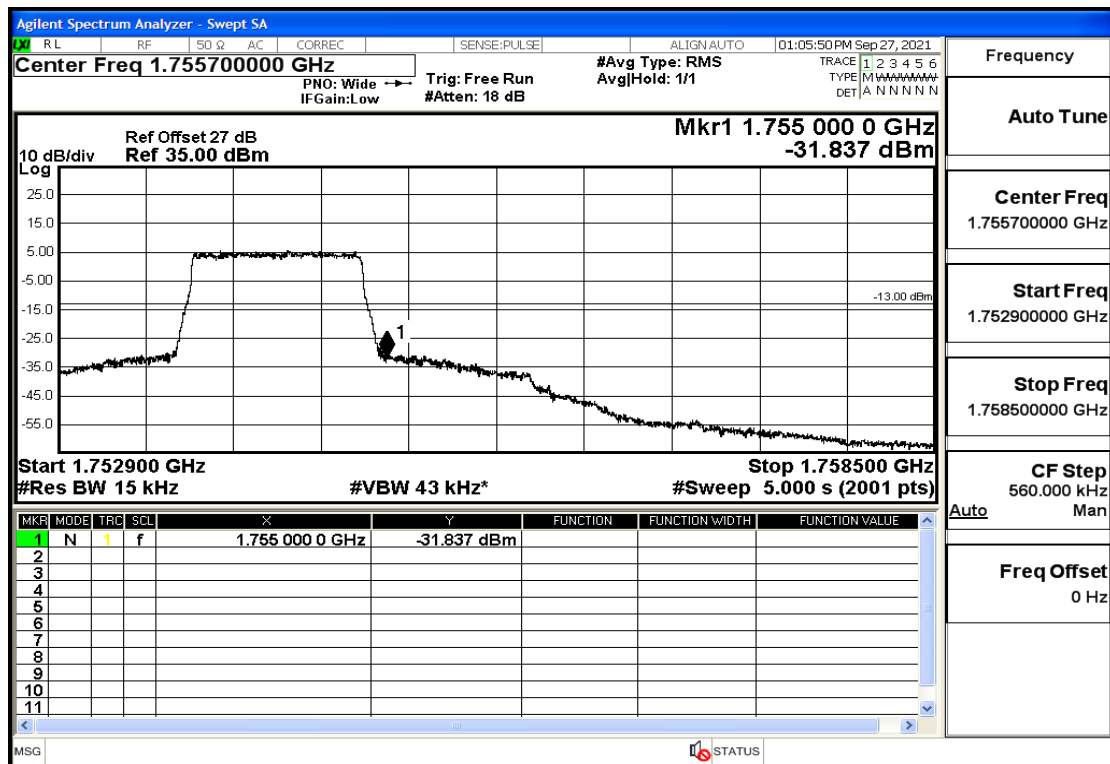
Band4-1.4-1710.7-16QAM-6#LOW@Pass



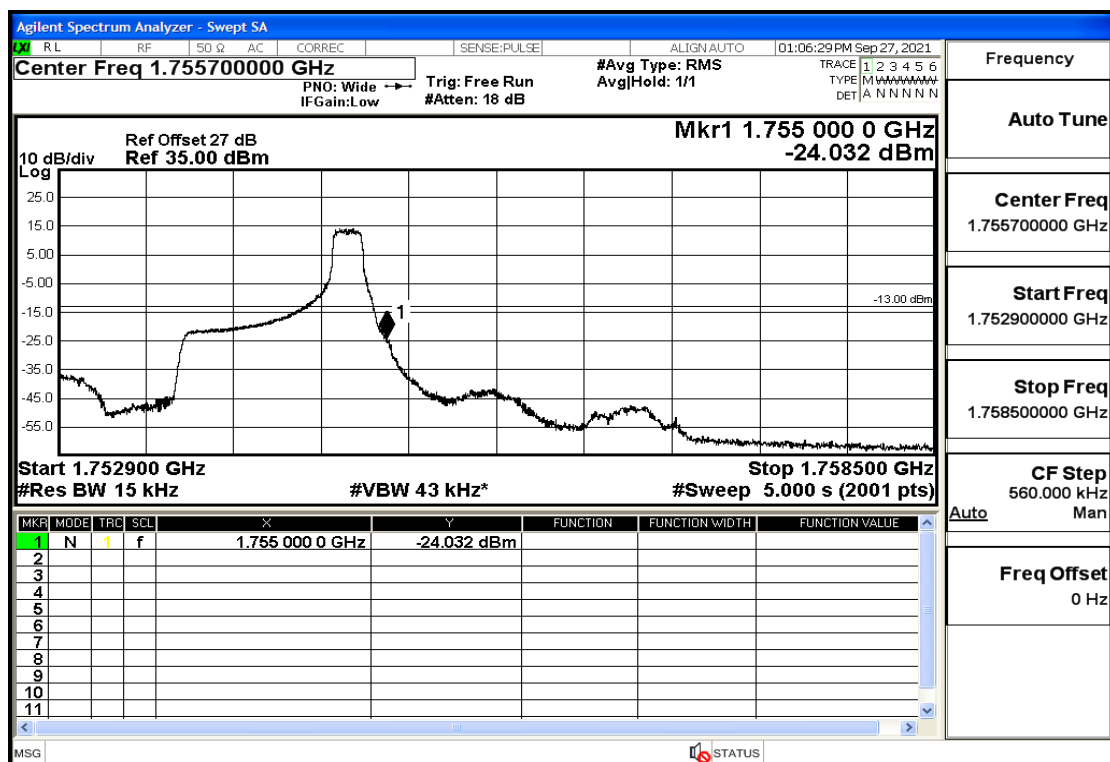
Band4-1.4-1710.7-16QAM-1#LOW@Pass



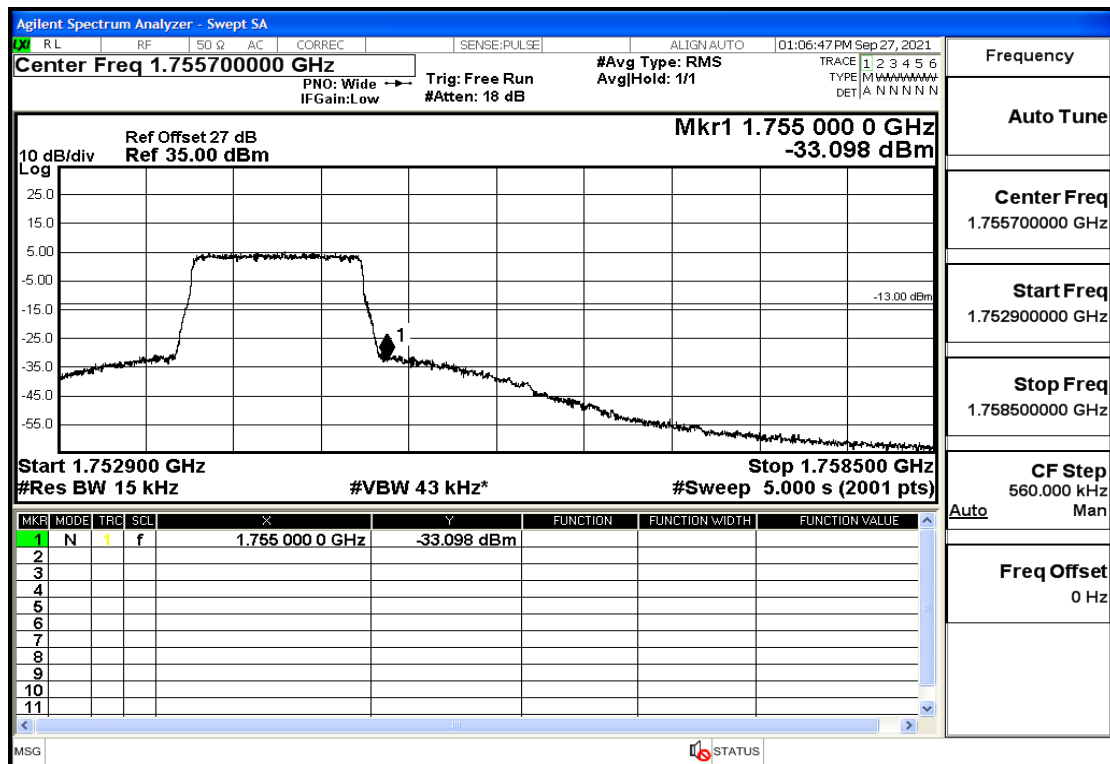
Band4-1.4-1754.3-QPSK-6#LOW@Pass



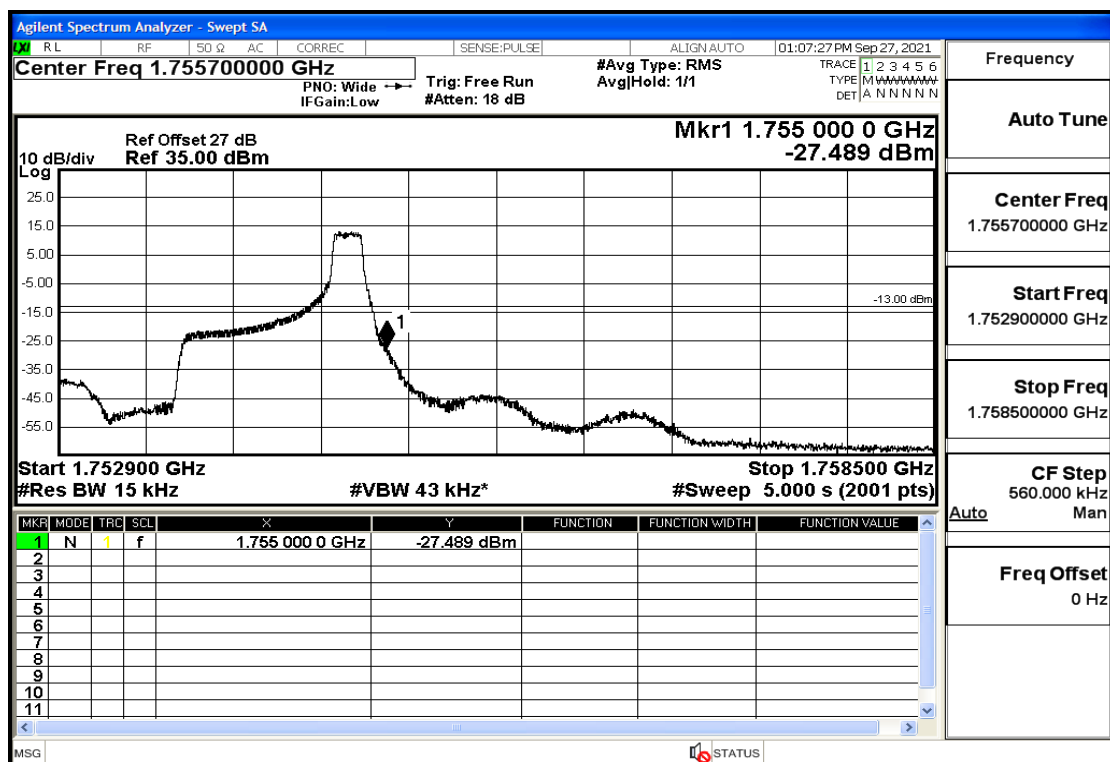
Band4-1.4-1754.3-QPSK-1#HIGH@Pass



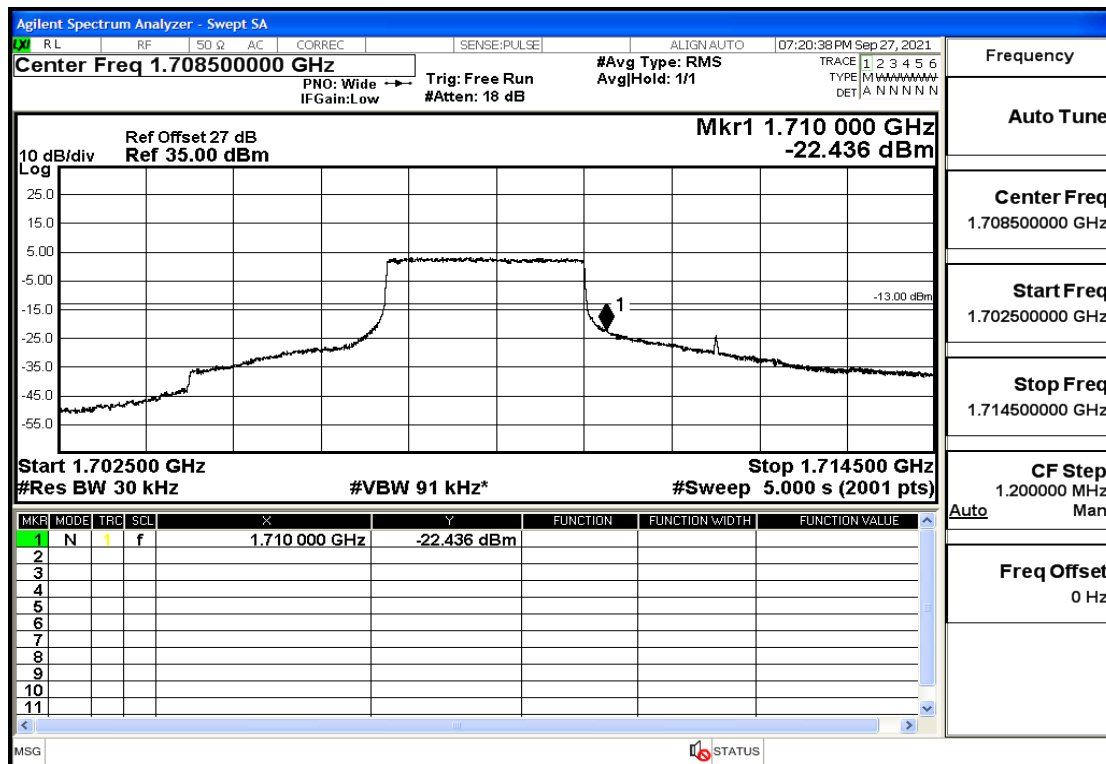
Band4-1.4-1754.3-16QAM-6#LOW@Pass



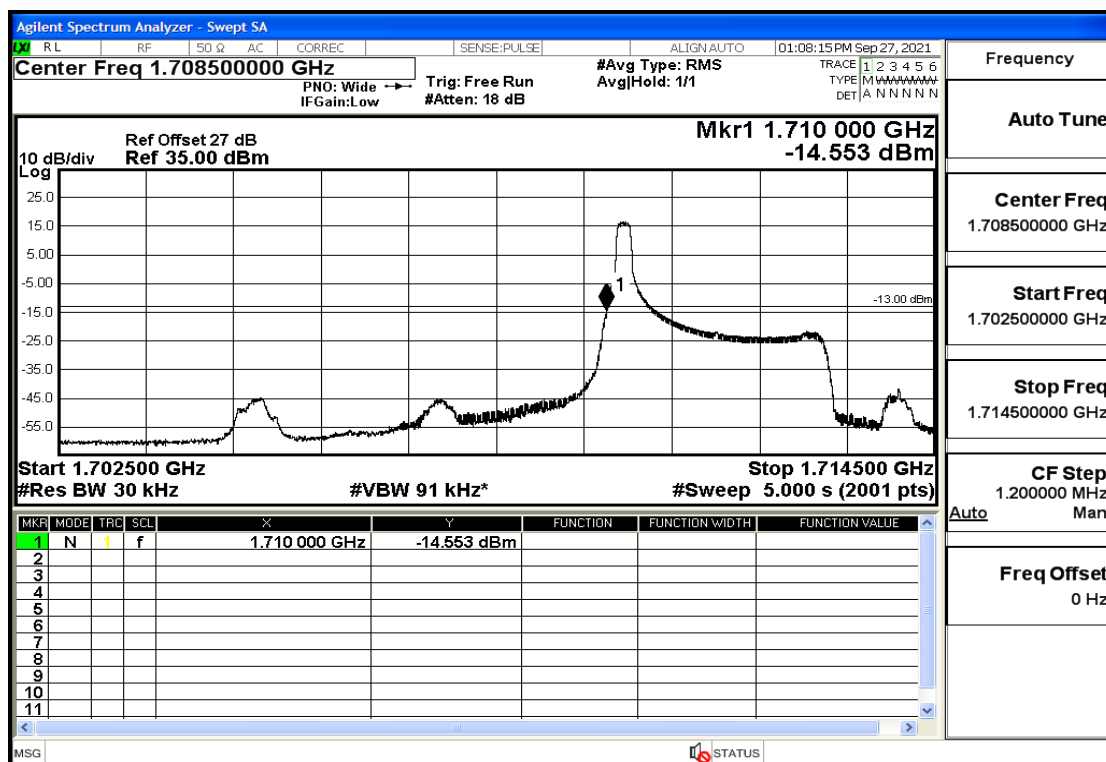
Band4-1.4-1754.3-16QAM-1#HIGH@Pass



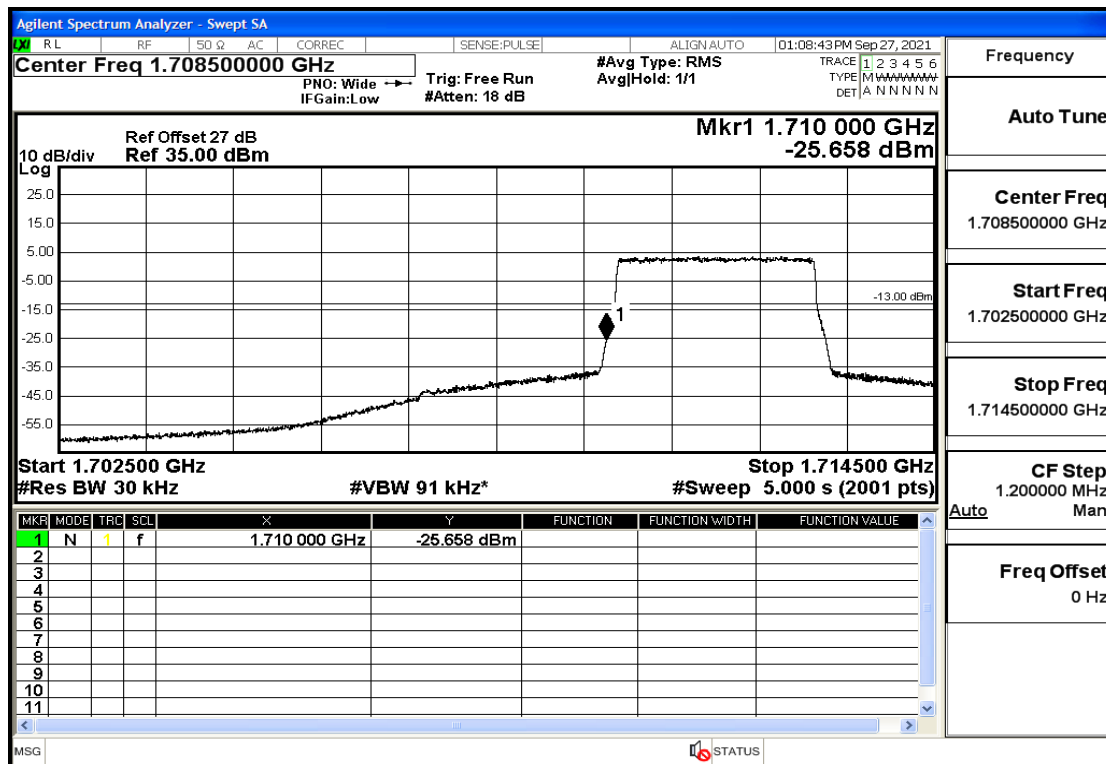
Band4-3-1711.5-QPSK-15#LOW@Pass



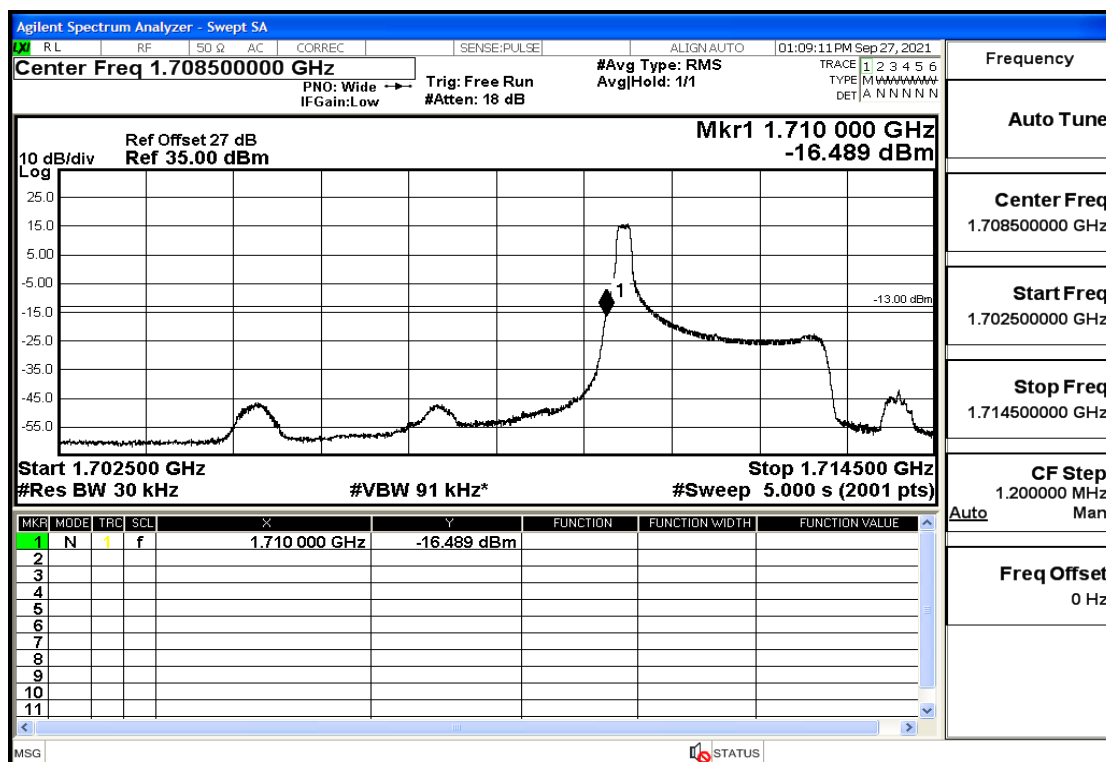
Band4-3-1711.5-QPSK-1#LOW@Pass



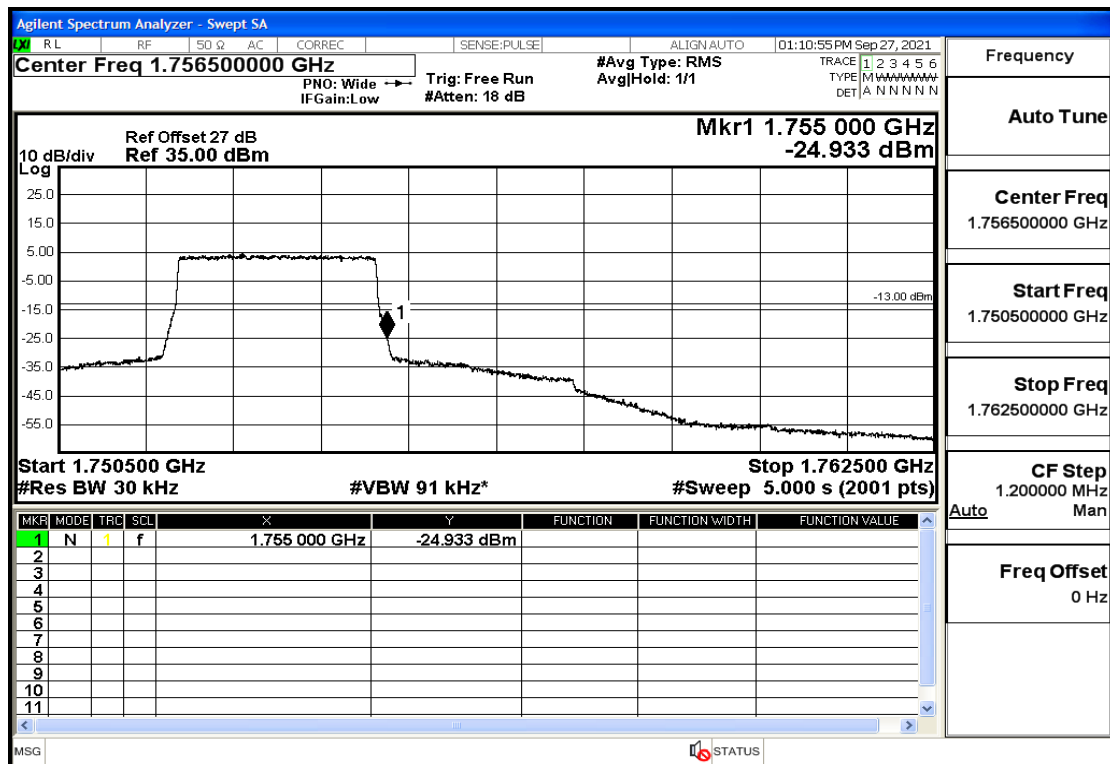
Band4-3-1711.5-16QAM-15#LOW@Pass



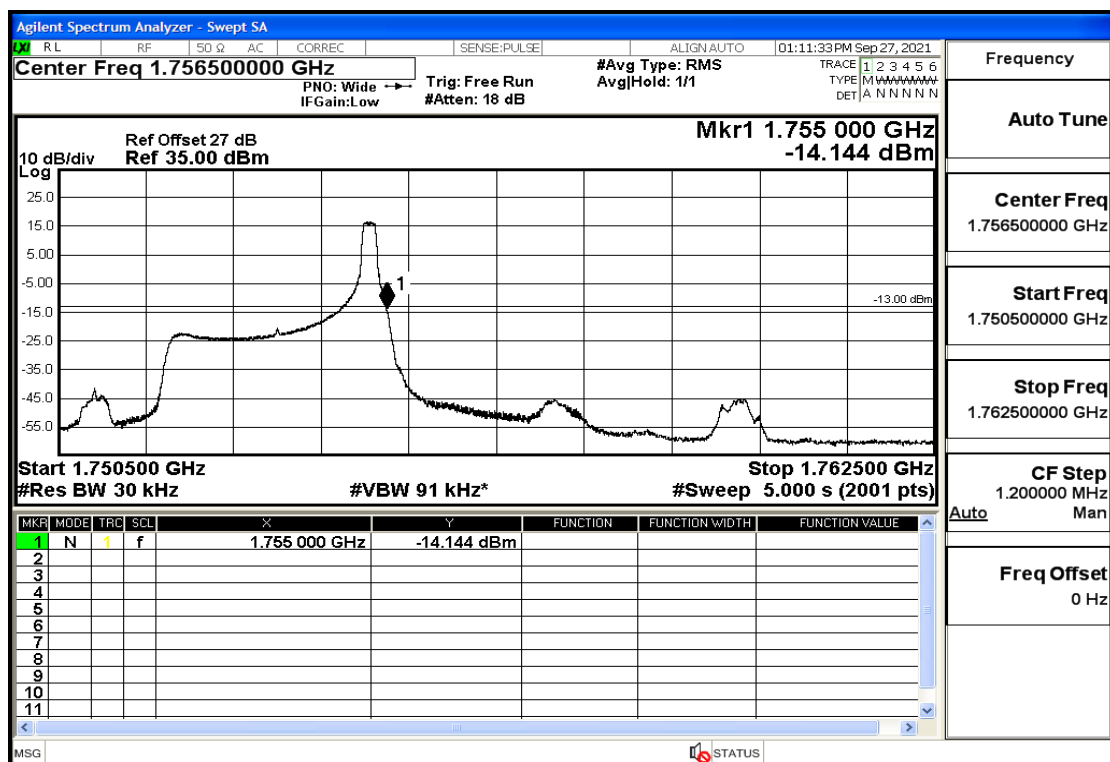
Band4-3-1711.5-16QAM-1#LOW@Pass



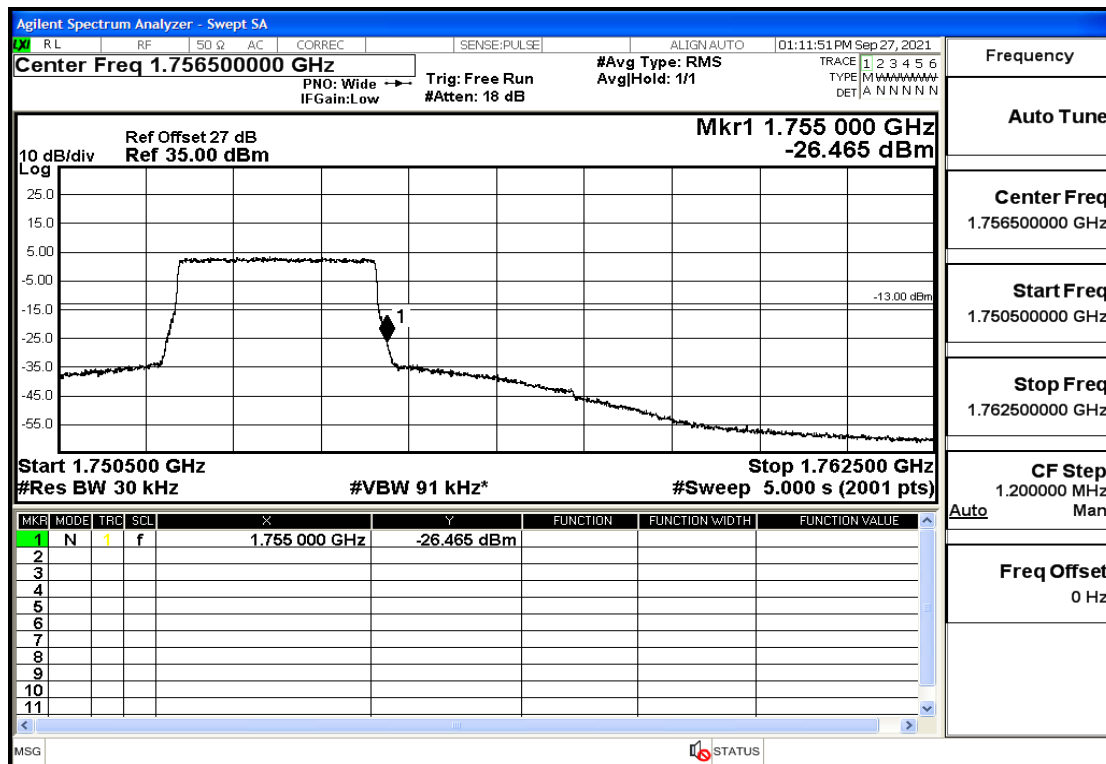
Band4-3-1753.5-QPSK-15#LOW@Pass



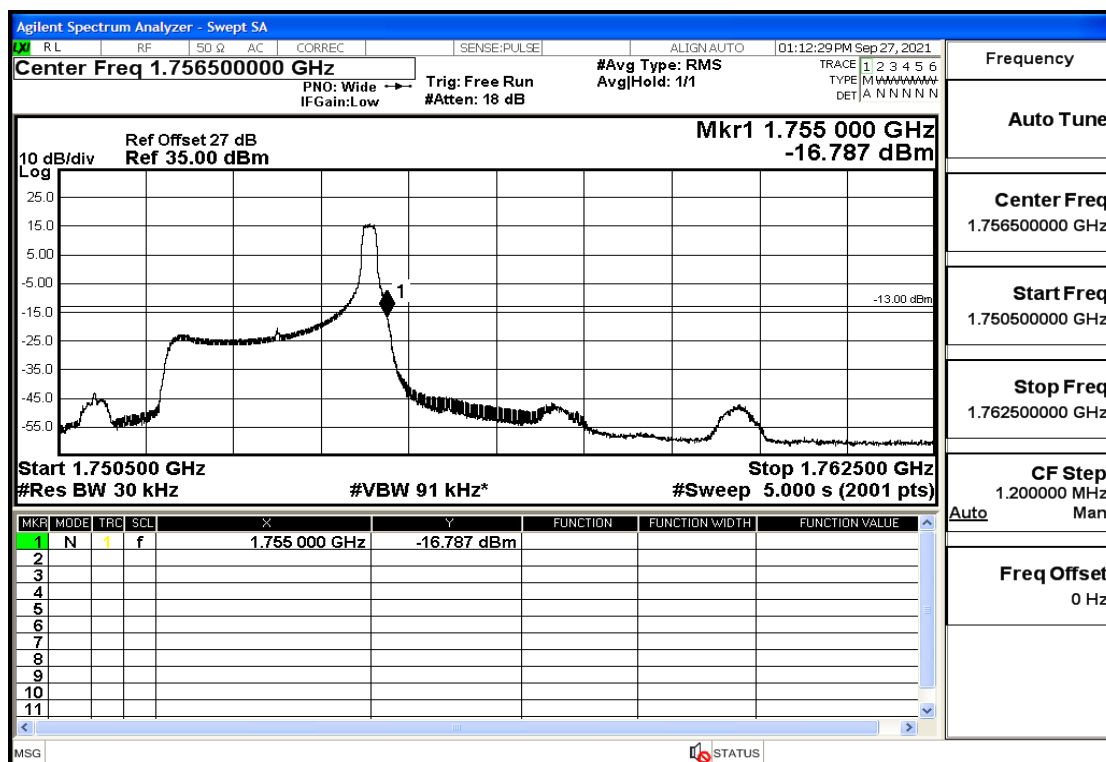
Band4-3-1753.5-QPSK-1#HIGH@Pass



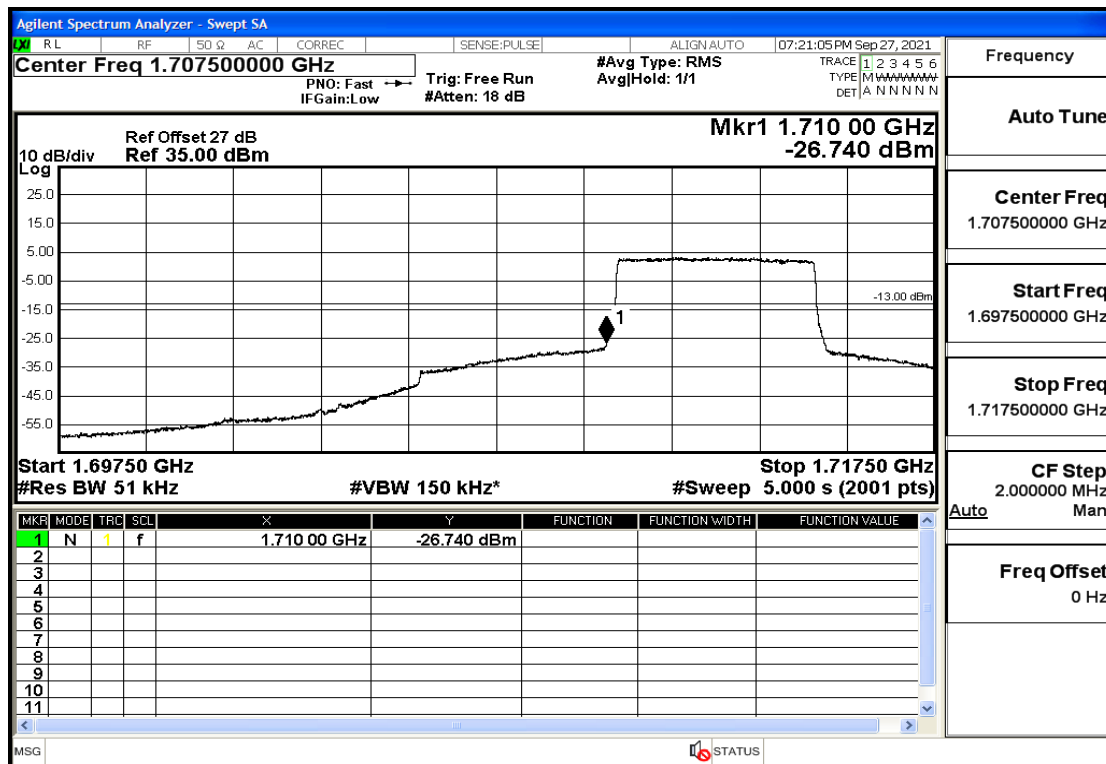
Band4-3-1753.5-16QAM-15#LOW@Pass



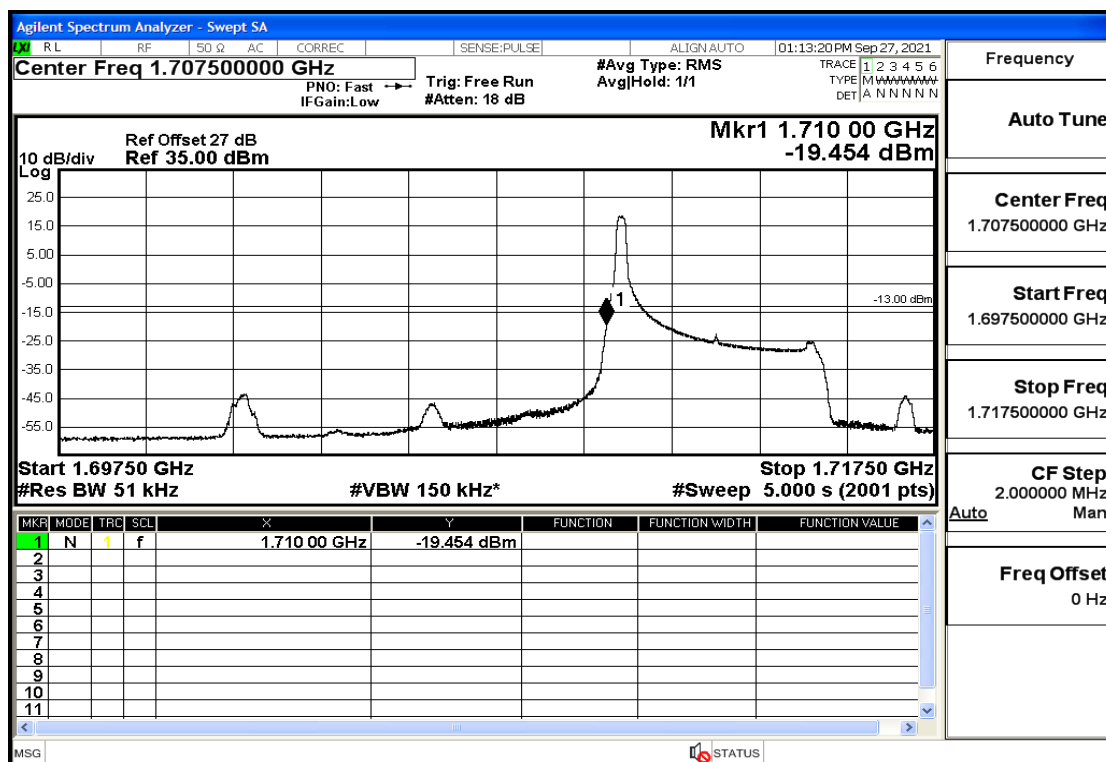
Band4-3-1753.5-16QAM-1#HIGH@Pass



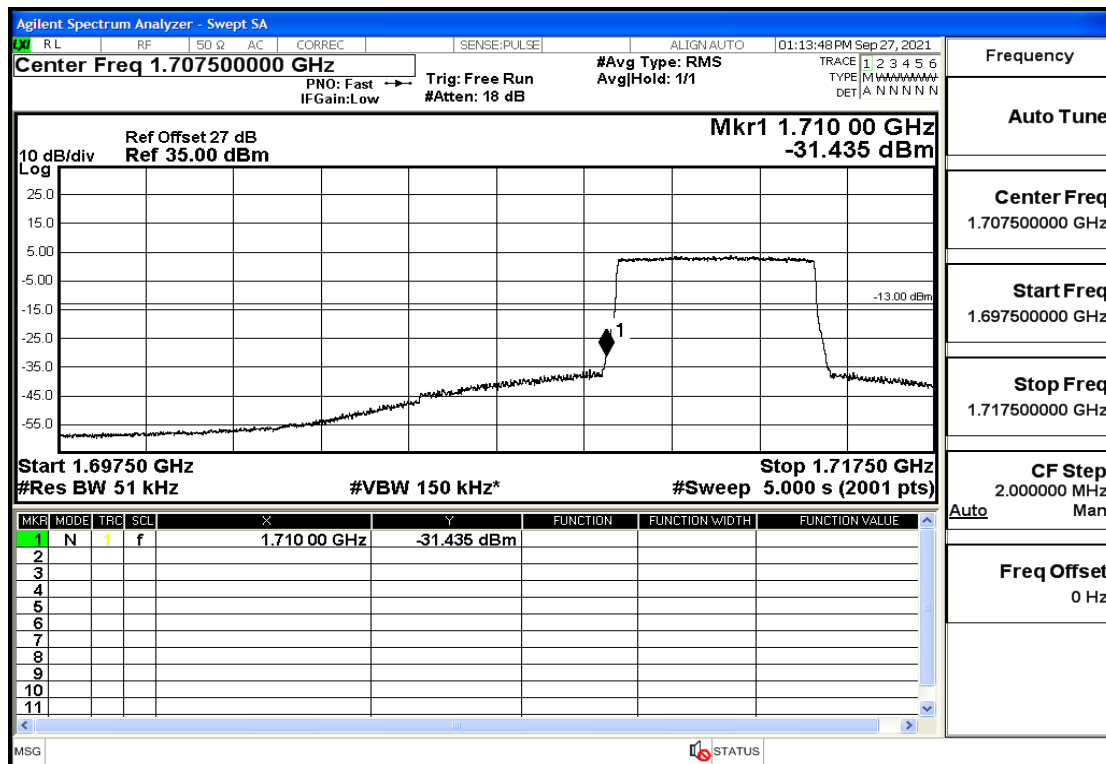
Band4-5-1712.5-QPSK-25#LOW@Pass



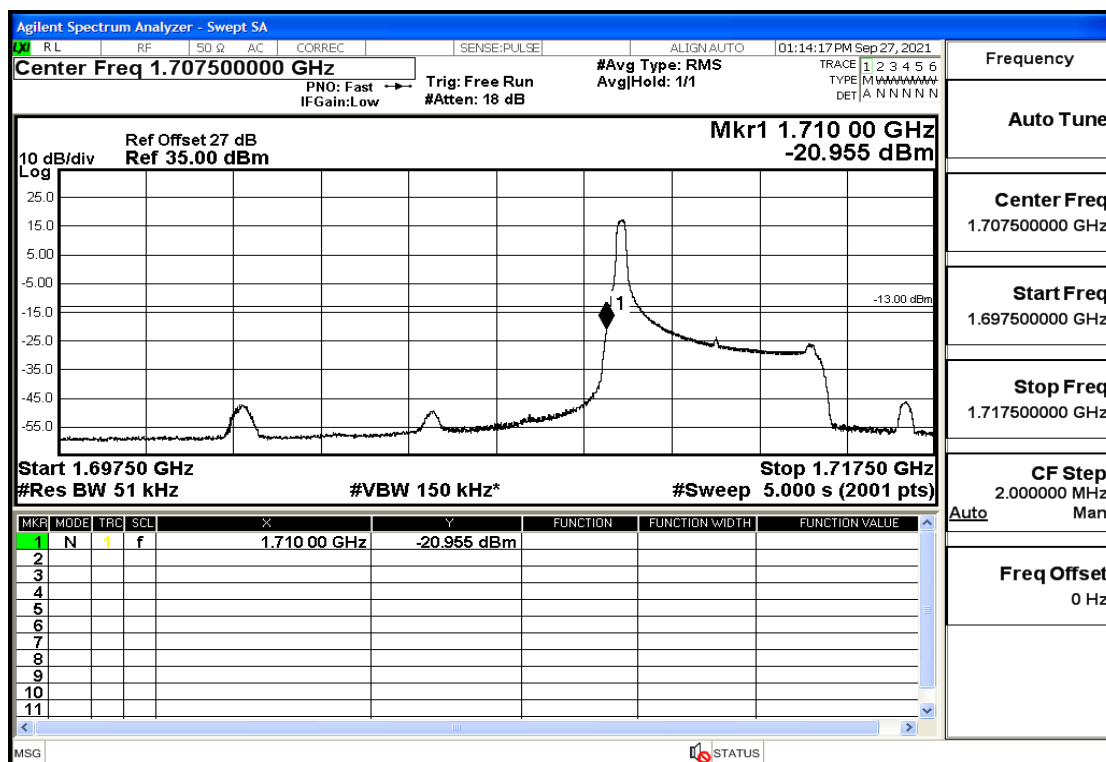
Band4-5-1712.5-QPSK-1#LOW@Pass



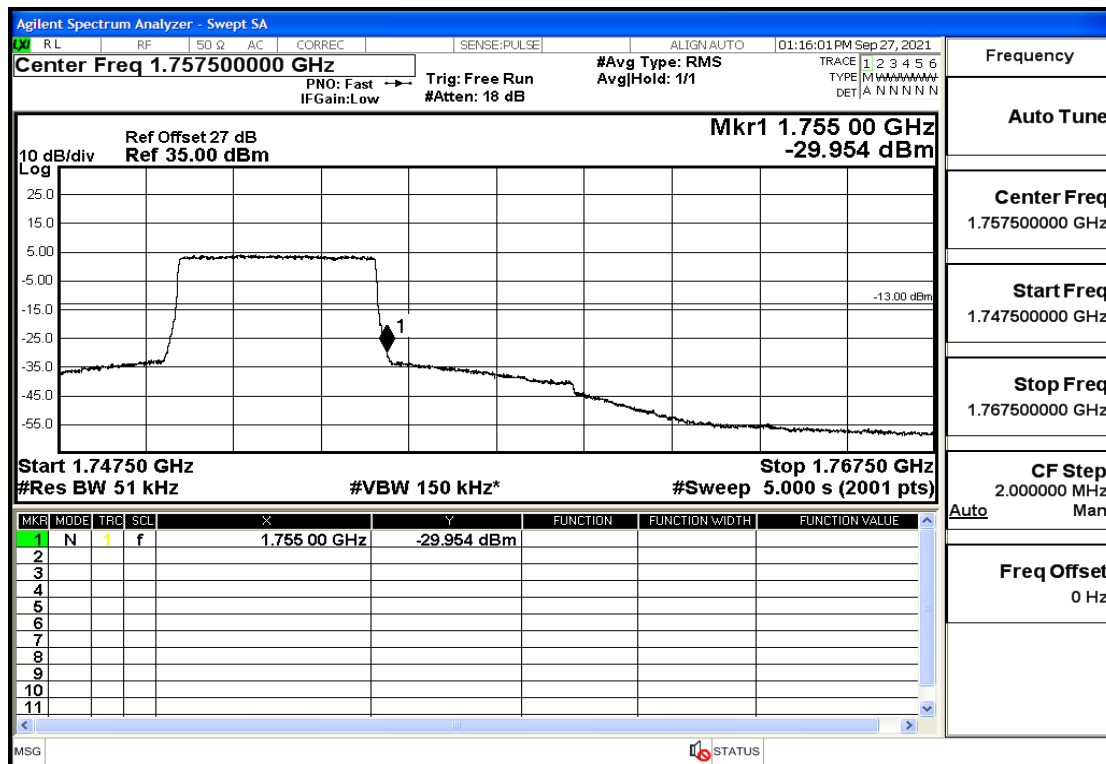
Band4-5-1712.5-16QAM-25#LOW@Pass



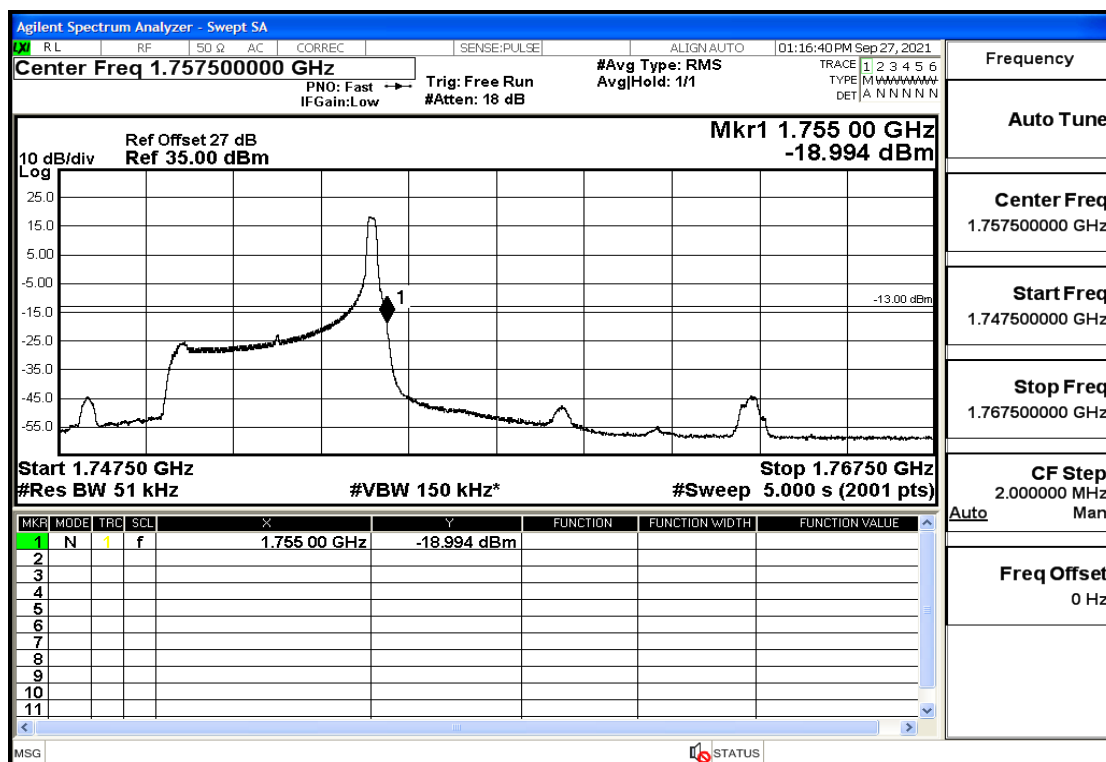
Band4-5-1712.5-16QAM-1#LOW@Pass



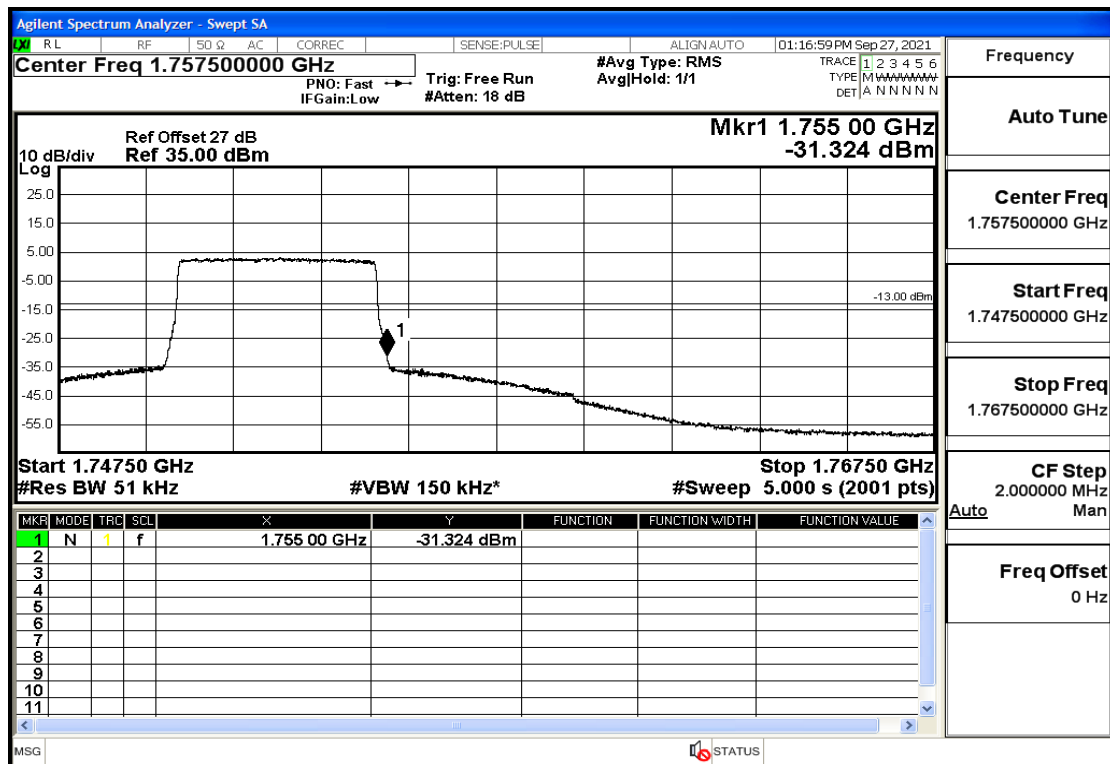
Band4-5-1752.5-QPSK-25#LOW@Pass



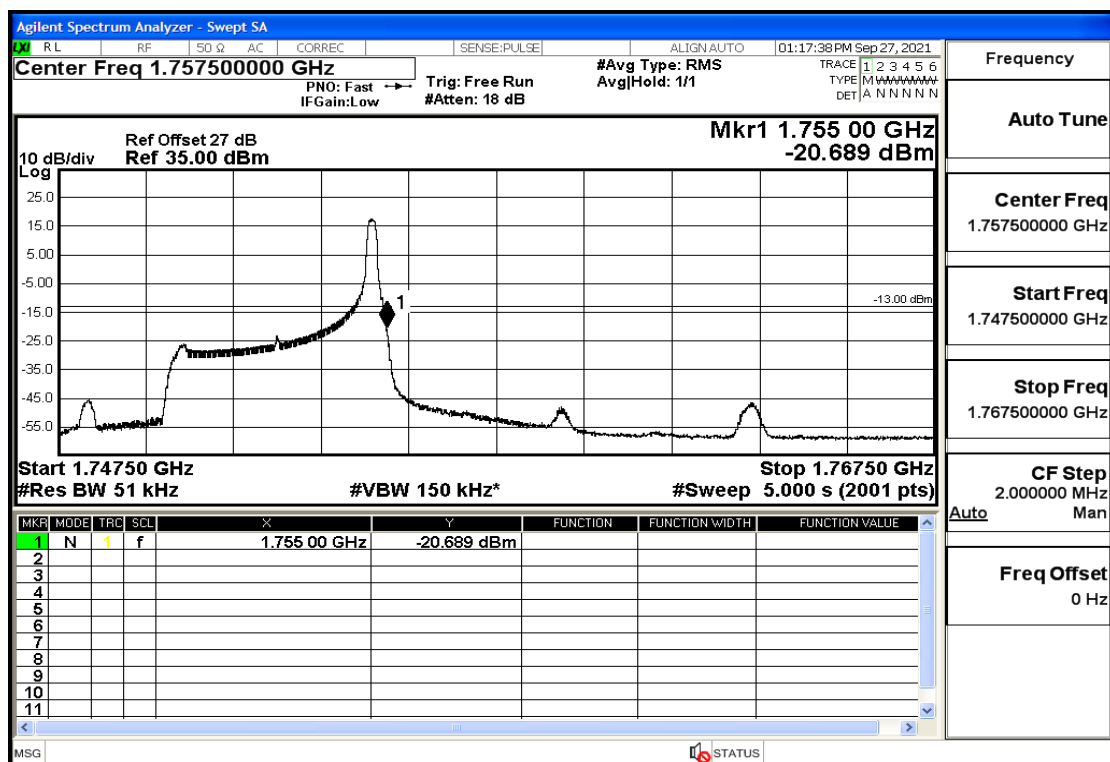
Band4-5-1752.5-QPSK-1#HIGH@Pass



Band4-5-1752.5-16QAM-25#LOW@Pass



Band4-5-1752.5-16QAM-1#HIGH@Pass



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 07:21:30 PM Sep 27, 2021

Center Freq 1.705000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS AvgHold: 1/1

TRACE 1 2 3 4 5 6 TYPE M W I N N N N N N DET A N N N N N N

Ref Offset 27 dB Mkr1 1.710 00 GHz
Ref 35.00 dBm -28.939 dBm

10 dB/div Log

Start 1.68500 GHz Stop 1.72500 GHz
#Res BW 100 kHz #VBW 300 kHz* #Sweep 5.000 s (2001 pts)

MkR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-28.939 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 1.705000000 GHz

Start Freq 1.685000000 GHz

Stop Freq 1.725000000 GHz

CF Step 4.000000 MHz

Auto Man

Freq Offset 0 Hz

[illegible]

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 01:19:00 PM Sep 27, 2021

Center Freq 1.70500000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS Avg/Hold: 1/1

TRACE 1 2 3 4 5 6 TYPE [M] W W W W W W W W DET [A] N N N N N N N

10 dB/div Ref Offset 27 dB Mkr1 1.710 00 GHz
Log Ref 35.00 dBm -25.730 dBm

Start 1.68500 GHz Stop 1.72500 GHz
#Res BW 100 kHz #VBW 300 kHz* #Sweep 5.000 s (2001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-25.730 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency Auto Tune Center Freq 1.70500000 GHz Start Freq 1.68500000 GHz Stop Freq 1.72500000 GHz CF Step 4.000000 MHz Man Auto Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO 01:19:32 PM Sep 27, 2021

Center Freq 1.70500000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Avg Type: RMS Avg/Hold: 1/1

TRACE 1 2 3 4 5 6 TYPE [M] [W] [A] [V] [N] [N] [N] [N] DET [A] [N] [N] [N] [N] [N]

Ref Offset 27 dB Ref 35.00 dBm Mkr1 1.710 00 GHz -24.797 dBm

10 dB/div Log

Start 1.68500 GHz Stop 1.72500 GHz
#Res BW 100 kHz #VBW 300 kHz* #Sweep 5.000 s (2001 pts)

MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-24.797 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 1.70500000 GHz

Start Freq 1.68500000 GHz

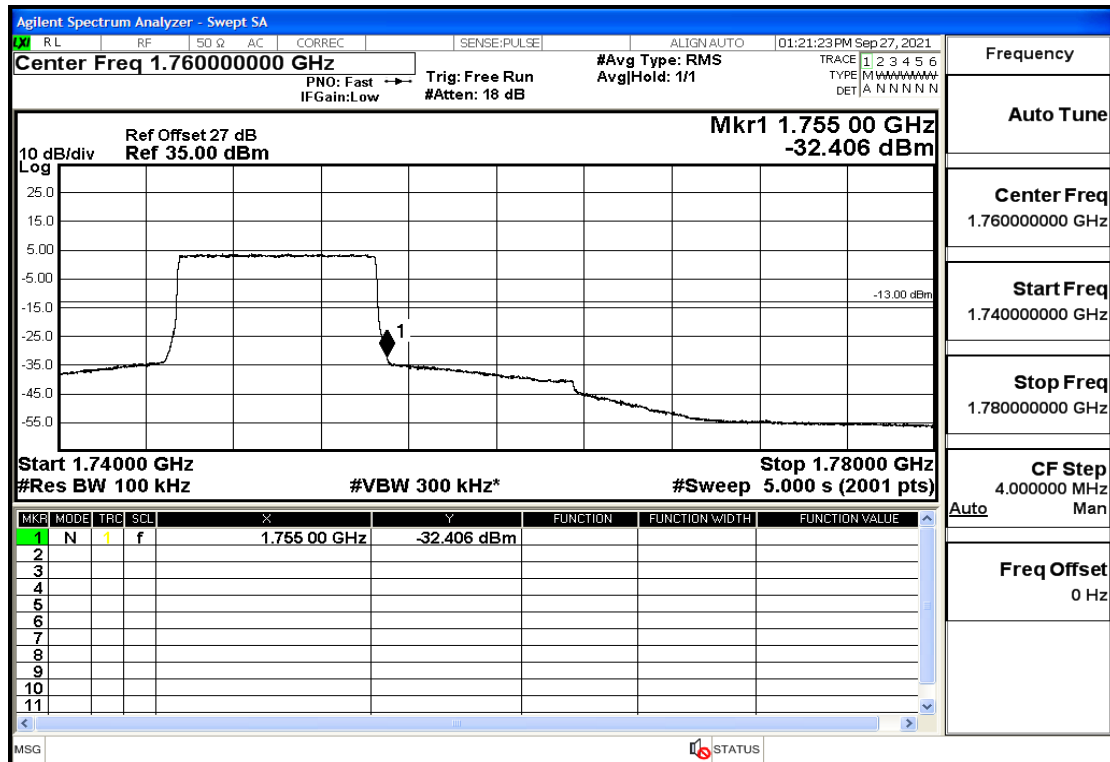
Stop Freq 1.72500000 GHz

CF Step 4.000000 MHz Man

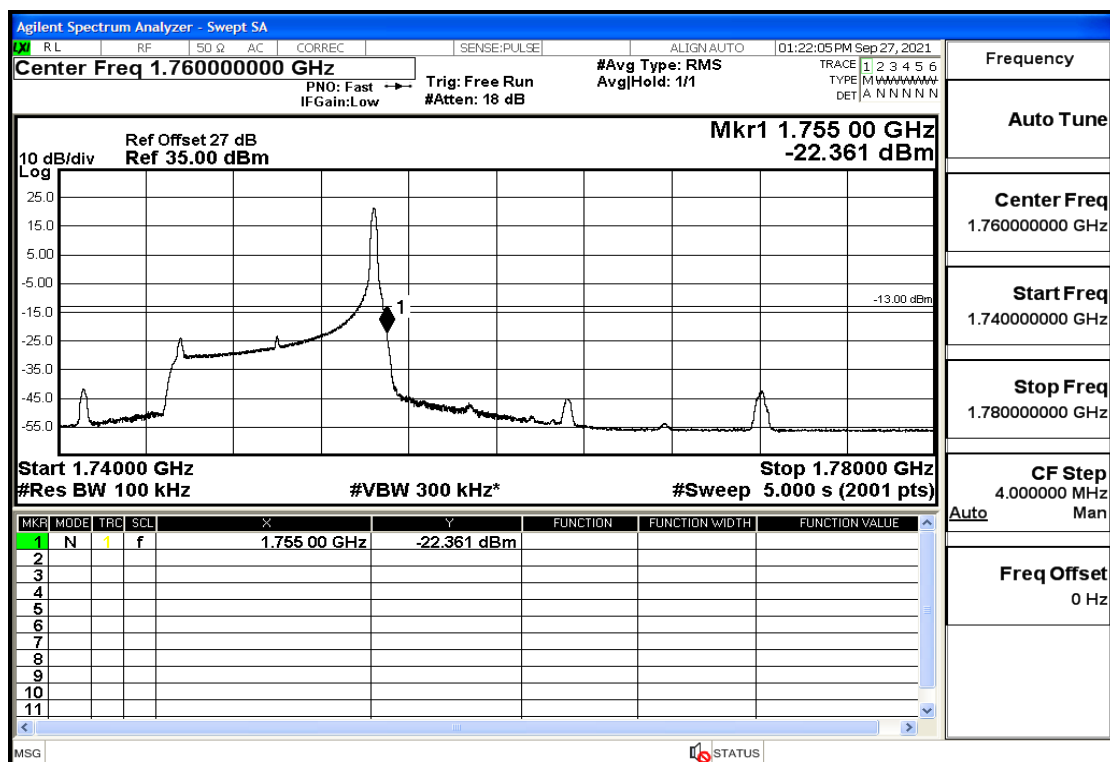
Auto

Freq Offset 0 Hz

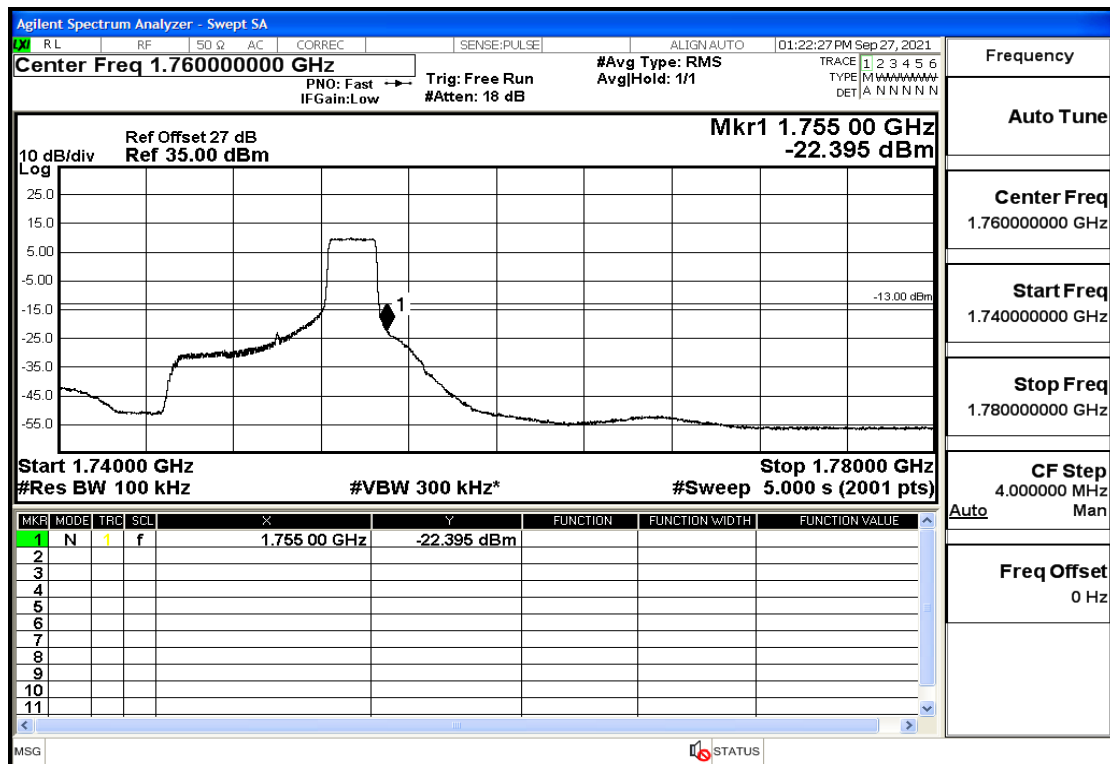
Band4-10-1750-QPSK-50#LOW@Pass



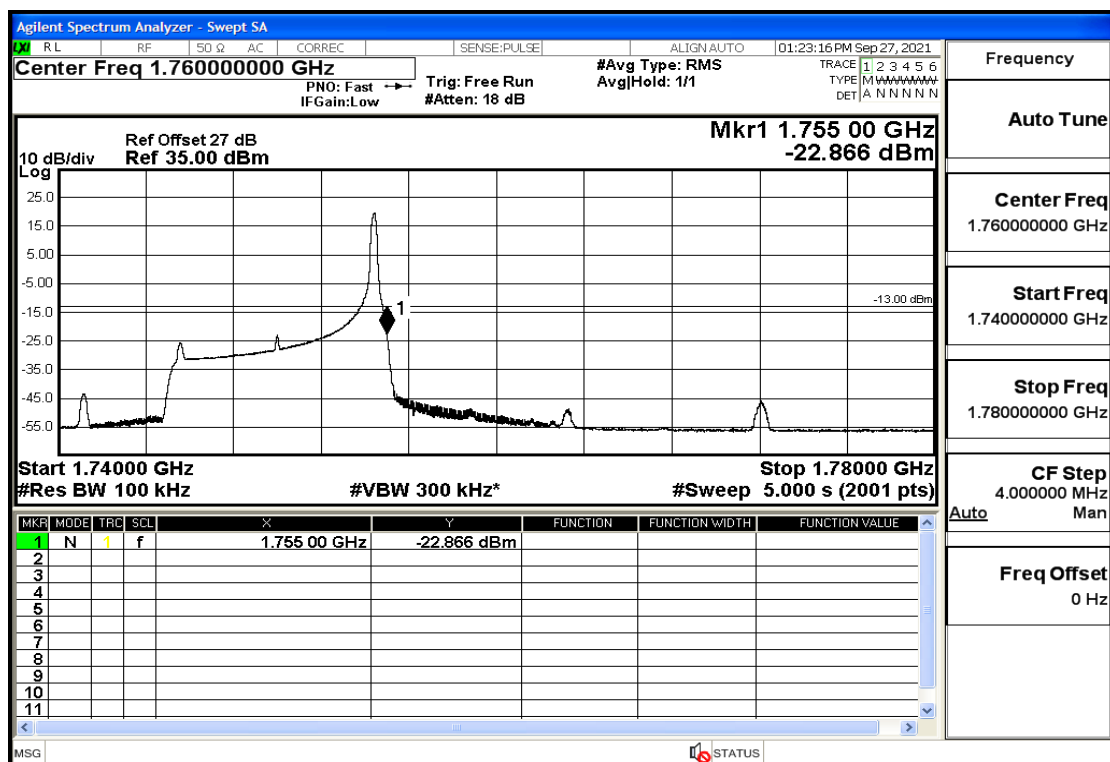
Band4-10-1750-QPSK-1#HIGH@Pass



Band4-10-1750-16QAM-12#HIGH@Pass



Band4-10-1750-16QAM-1#HIGH@Pass



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 07:21:58 PM Sep 27, 2021

Center Freq 1.702500000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS AvgHold: 1/1

TRACE 1 2 3 4 5 6 TYPE MAAAAA DET A N N N N N

10 dB/div Ref Offset 27 dB Mkr1 1.710 00 GHz
Log Ref 35.00 dBm -29.496 dBm

Start 1.67250 GHz Stop 1.73250 GHz
#Res BW 150 kHz #VBW 470 kHz* #Sweep 5.000 s (2001 pts)

MkR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	f	1.710 00 GHz	-29.496 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 1.702500000 GHz

Start Freq 1.672500000 GHz

Stop Freq 1.732500000 GHz

CF Step 6.000000 MHz

Man

Auto

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Sweep SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN:AUTO 01:24:10 PM Sep 27, 2021

Center Freq 1.702500000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS AvgHld: 1/1

TRACE 1 2 3 4 5 6
TYPE N N N N N N N
DET A N N N N N N

Ref Offset 27 dB
Ref 35.00 dBm

Mkr1 1.710 00 GHz
-21.514 dBm

10 dB/div
Log

Start 1.67250 GHz
#Res BW 150 kHz

Stop 1.73250 GHz
#Sweep 5.000 s (2001 pts)

#VBW 470 kHz*

MARK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-21.514 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
1.702500000 GHz

Start Freq
1.672500000 GHz

Stop Freq
1.732500000 GHz

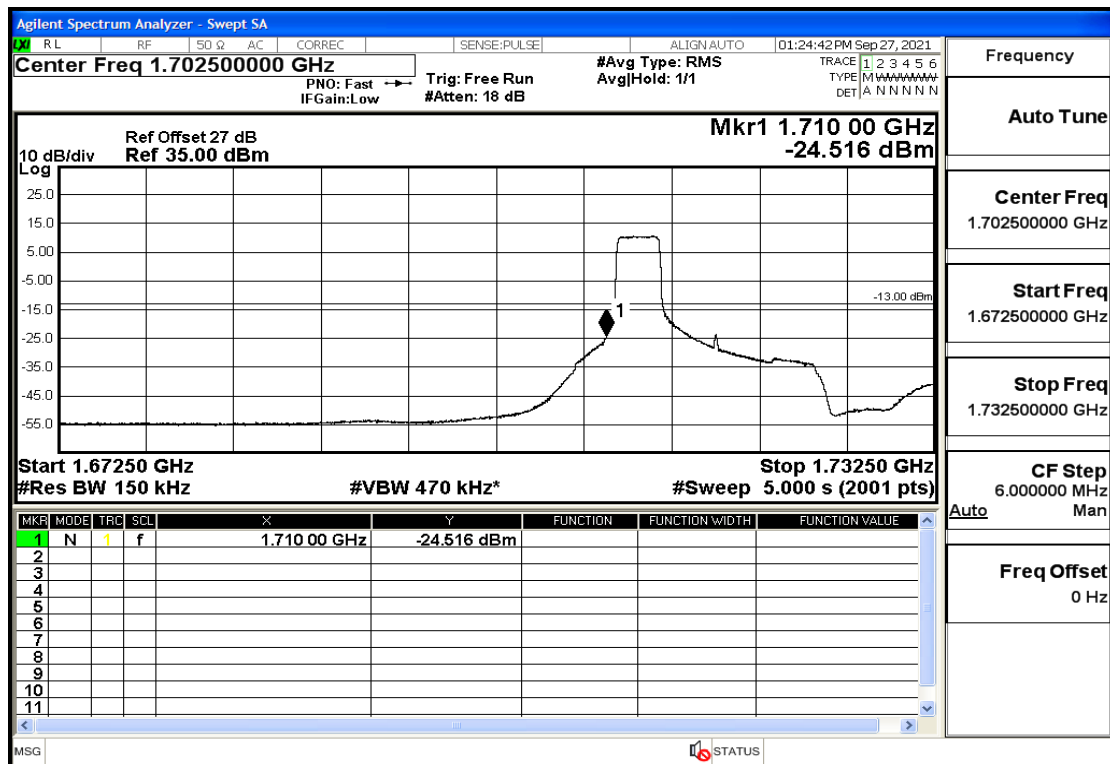
CF Step
6.000000 MHz

Man

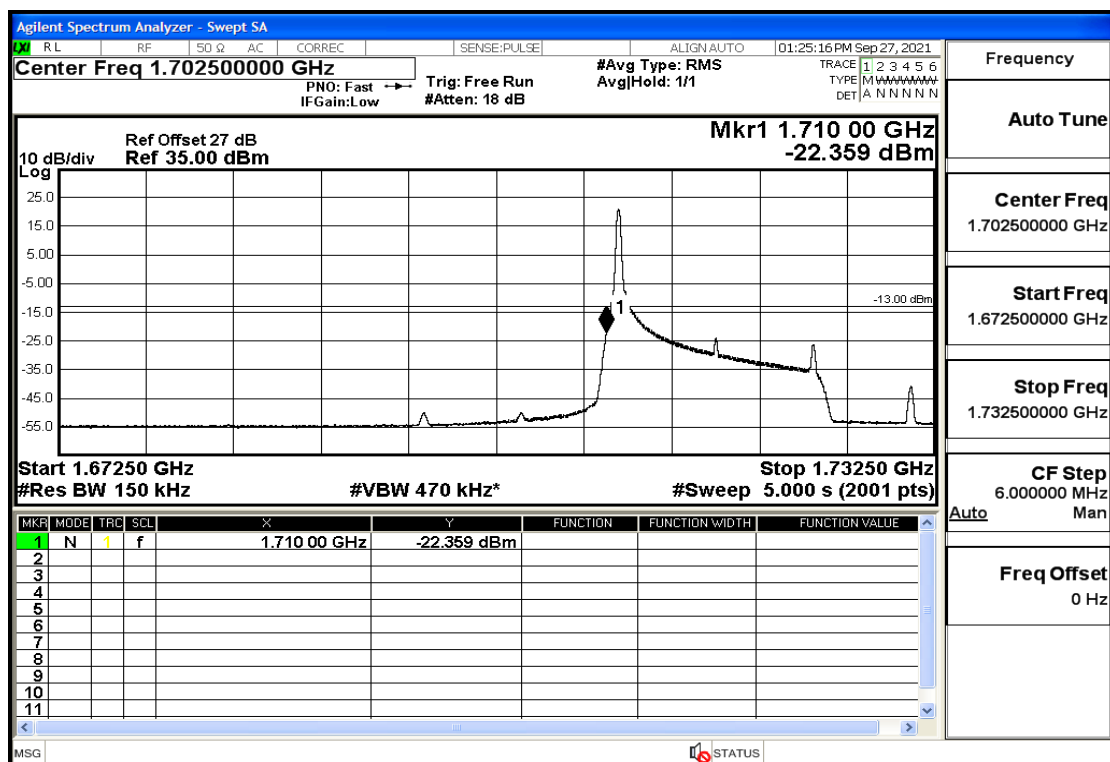
Auto

Freq Offset
0 Hz

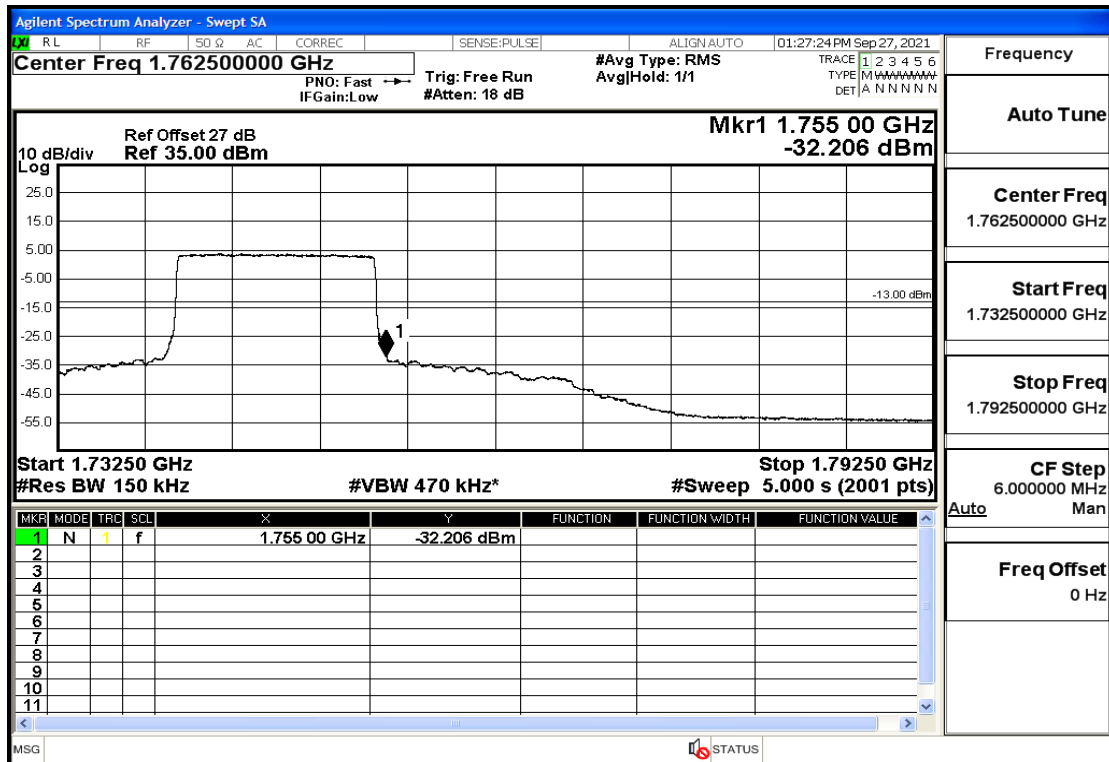
Band4-15-1717.5-16QAM-16#LOW@Pass



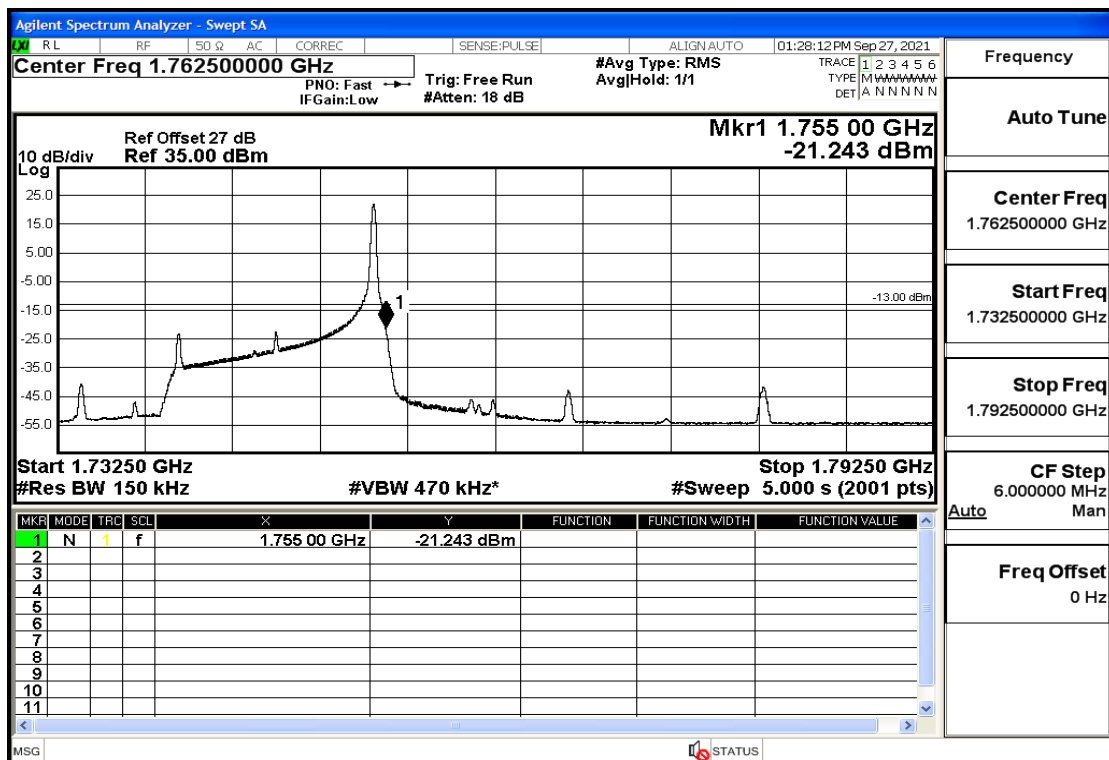
Band4-15-1717.5-16QAM-1#LOW@Pass



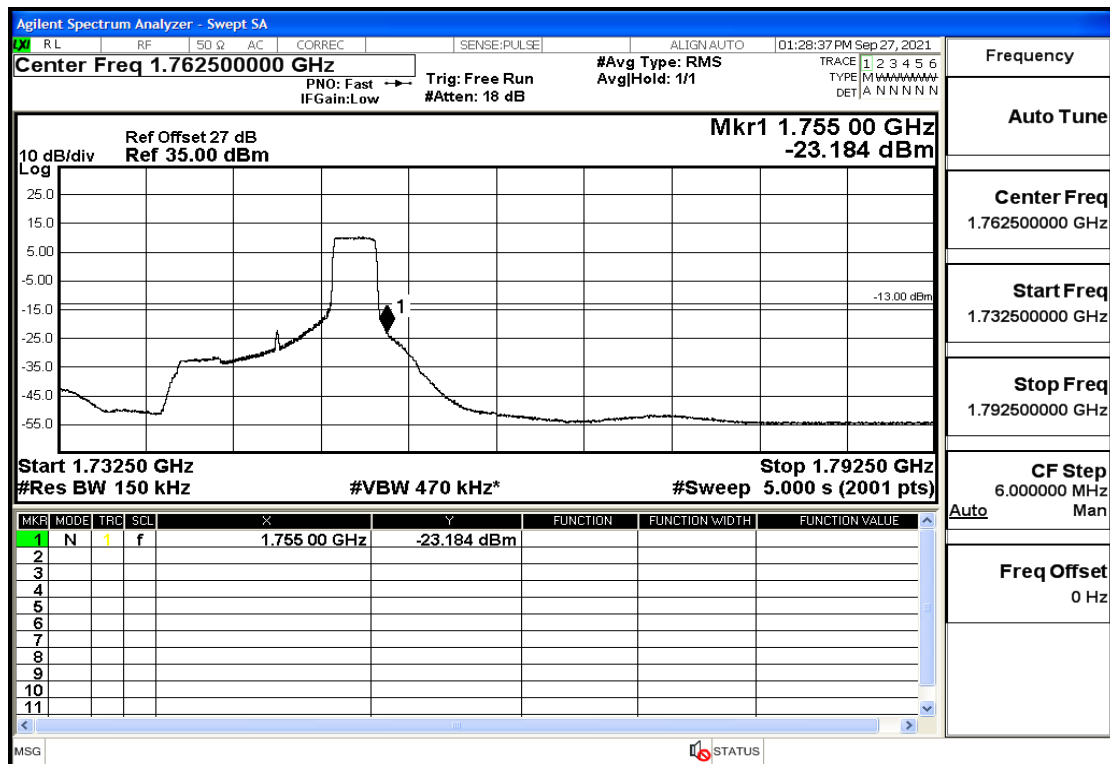
Band4-15-1747.5-QPSK-75#LOW@Pass



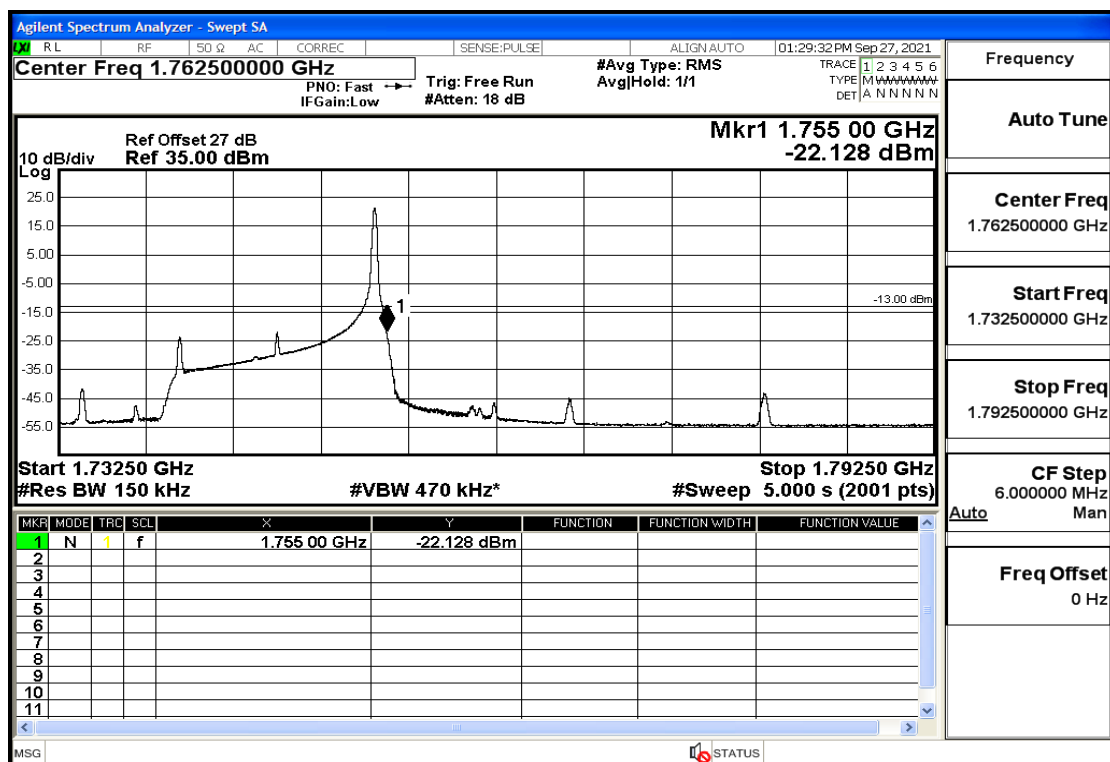
Band4-15-1747.5-QPSK-1#HIGH@Pass



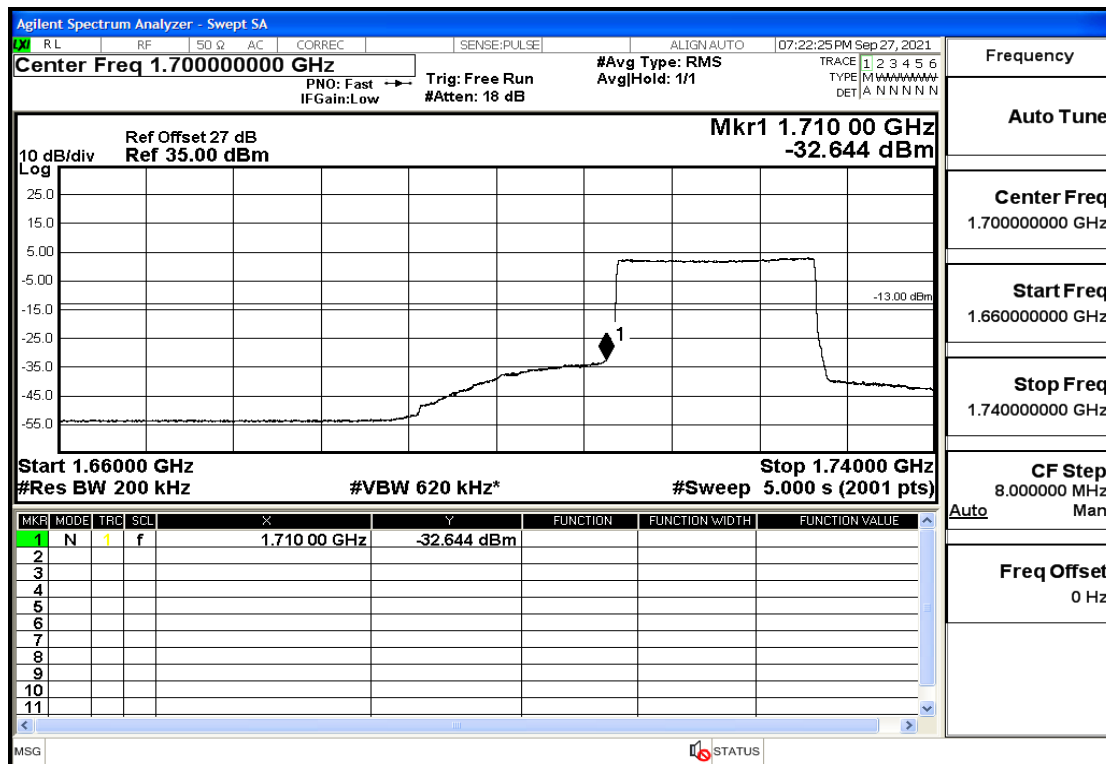
Band4-15-1747.5-16QAM-16#HIGH@Pass



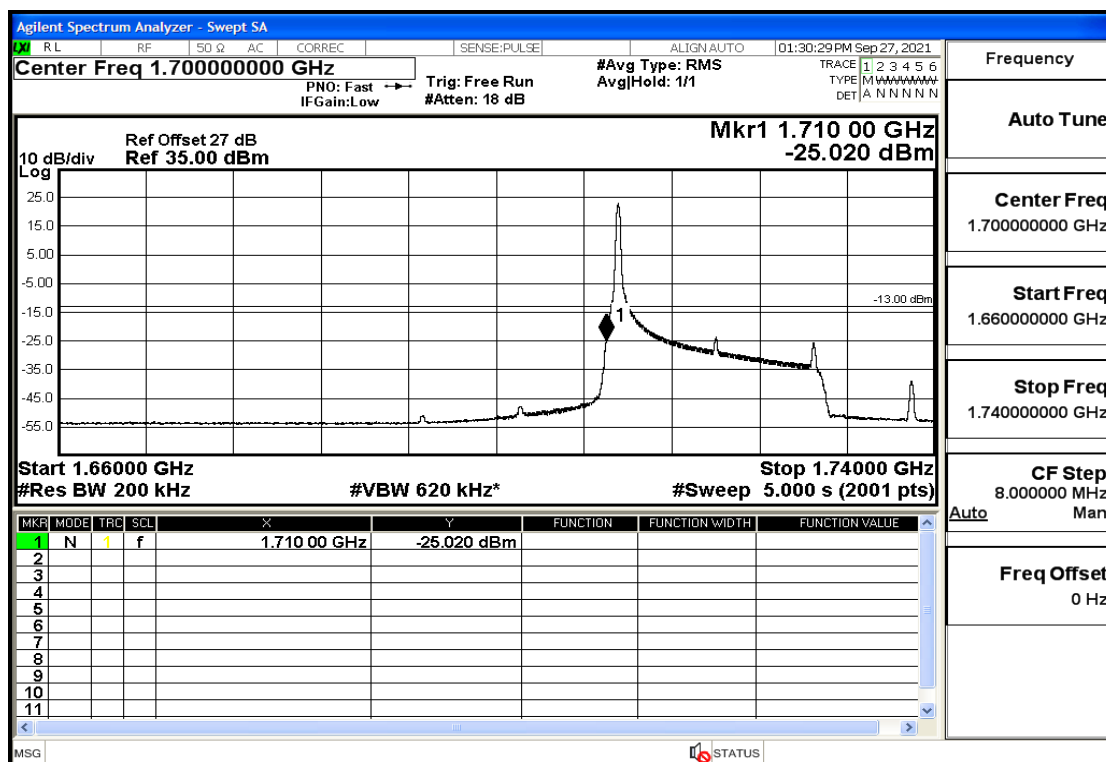
Band4-15-1747.5-16QAM-1#HIGH@Pass



Band4-20-1720-QPSK-100#LOW@Pass



Band4-20-1720-QPSK-1#LOW@Pass



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC SENSE: PULSE ALIGN AUTO 01:31:01 PM Sep 27, 2021

Center Freq 1.70000000 GHz PNO: Fast IFGain: Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS Avg/Hold: 1/1

TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET A N N N N N N

10 dB/div Ref Offset 27 dB Mkr1 1.710 00 GHz
Log Ref 35.00 dBm -25.515 dBm

Start 1.66000 GHz Stop 1.74000 GHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 5.000 s (2001 pts)

MkR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-25.515 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

Frequency Auto Tune Center Freq 1.700000000 GHz Start Freq 1.660000000 GHz Stop Freq 1.740000000 GHz CF Step 8.000000 MHz Man Auto Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO 01:31:37 PM Sep 27, 2021

Center Freq 1.70000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 18 dB #Avg Type: RMS Avg/Hold: 1/1 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W W W DET A N N N N N N

10 dB/div Ref Offset 27 dB Mkr1 1.710 00 GHz
Log Ref 35.00 dBm -25.119 dBm

Start 1.66000 GHz Stop 1.74000 GHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 5.000 s (2001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.710 00 GHz	-25.119 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 1.70000000 GHz

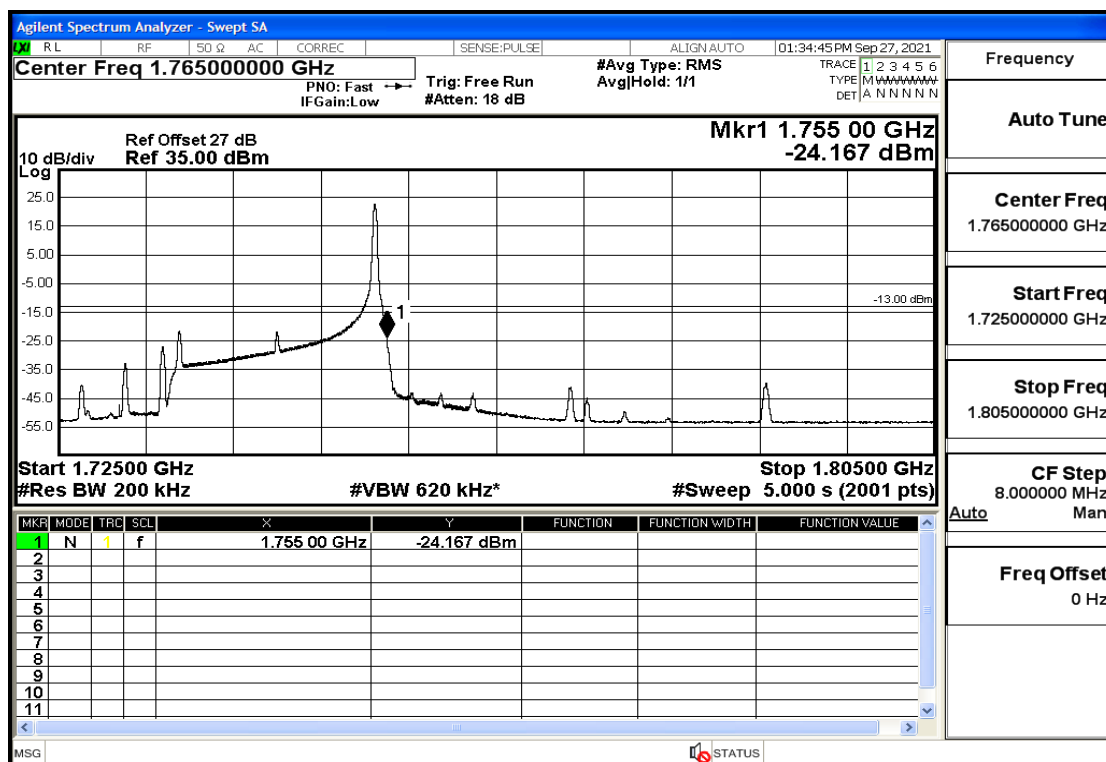
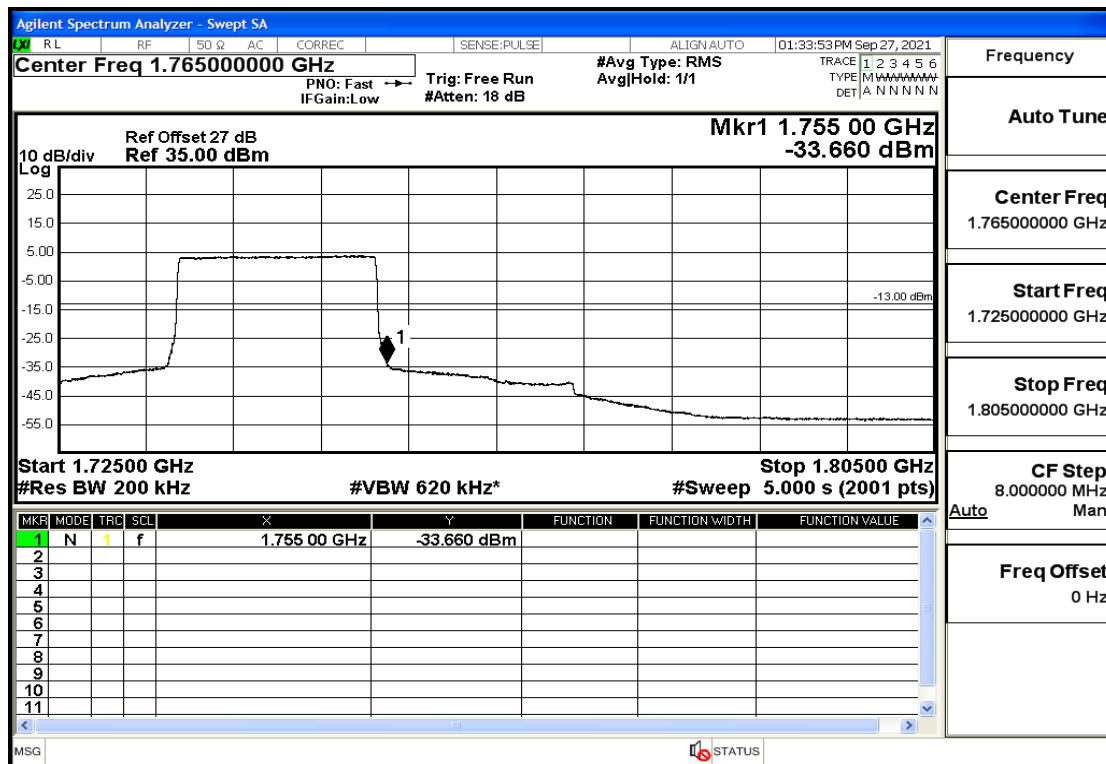
Start Freq 1.66000000 GHz

Stop Freq 1.74000000 GHz

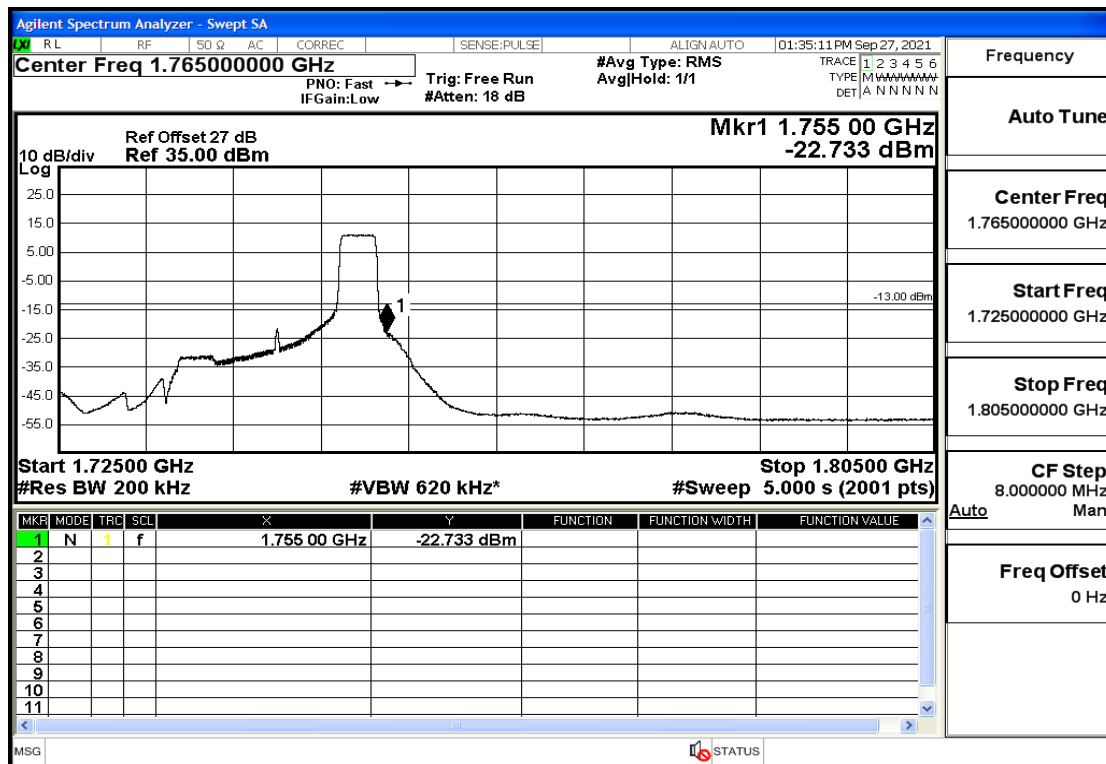
CF Step 8.000000 MHz Man

Auto

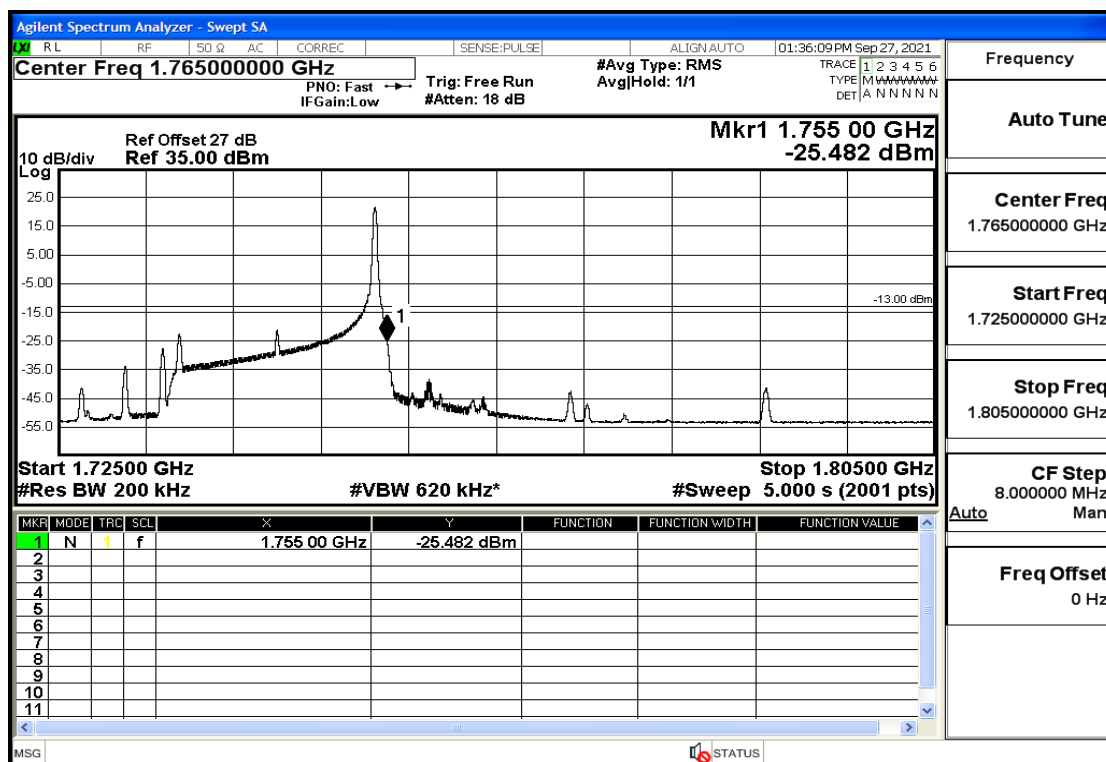
Freq Offset 0 Hz



Band4-20-1745-16QAM-18#HIGH@Pass



Band4-20-1745-16QAM-1#HIGH@Pass



Conducted Spurious Emission

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Test Condition	Transmitter Spurious Emission(Pass/Fail)
OB4	1.4	1710.7	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1710.7	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1710.7	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	1.4	1710.7	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	1.4	1710.7	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1710.7	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1710.7	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	1.4	1710.7	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	1.4	1710.7	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	1.4	1710.7	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1732.5	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	1.4	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	1.4	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	1.4	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	1.4	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	1.4	1732.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	30mHz-1GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	1GHz-7GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1754.3	QPSK	6	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1754.3	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	1.4	1754.3	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	1.4	1754.3	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	1.4	1754.3	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	1.4	1754.3	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	1.4	1754.3	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	1.4	1754.3	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	1.4	1754.3	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1711.5	QPSK	15	LOW	7GHz-13.6GHz	Pass

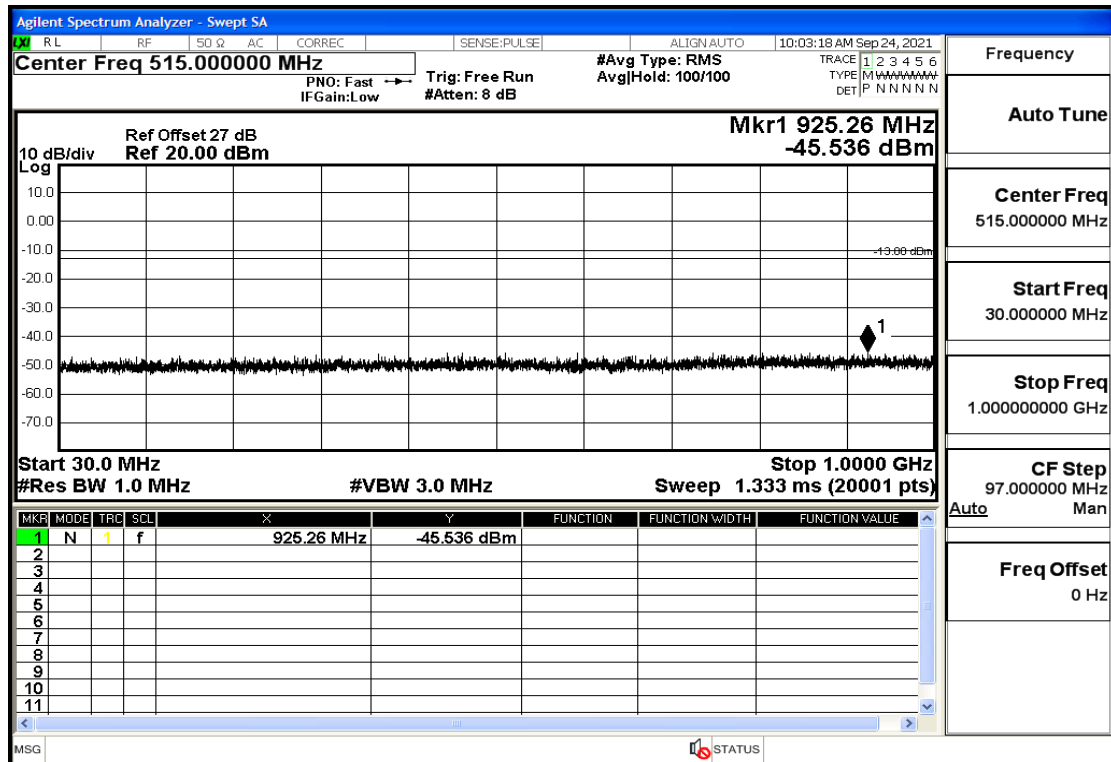
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OB4	3	1711.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	3	1711.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	3	1711.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	3	1711.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	3	1711.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	3	1711.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	3	1711.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	3	1711.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	7GHz-13.6GHz	Pass
OB4	3	1732.5	QPSK	15	LOW	13.6GHz-20GHz	Pass
OB4	3	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	3	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	3	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	3	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	3	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	3	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	3	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	3	1732.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	30mHz-1GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	1GHz-7GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	7GHz-13.6GHz	Pass
OB4	3	1753.5	QPSK	15	LOW	13.6GHz-20GHz	Pass
OB4	3	1753.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	3	1753.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	3	1753.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	3	1753.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	3	1753.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	3	1753.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	3	1753.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	3	1753.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1712.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	5	1712.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	5	1712.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	5	1712.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	5	1712.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	5	1712.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	5	1712.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	5	1712.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	5	1712.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	30mHz-1GHz	Pass

OB4	5	1732.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1732.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	5	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	5	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	5	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	5	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	5	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	5	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	5	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	5	1732.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	1GHz-7GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	7GHz-13.6GHz	Pass
OB4	5	1752.5	QPSK	25	LOW	13.6GHz-20GHz	Pass
OB4	5	1752.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	5	1752.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	5	1752.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	5	1752.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	5	1752.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	5	1752.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	5	1752.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	5	1752.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	10	1715	QPSK	50	LOW	30mHz-1GHz	Pass
OB4	10	1715	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1715	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1715	QPSK	50	LOW	13.6GHz-20GHz	Pass
OB4	10	1715	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	10	1715	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	10	1715	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	10	1715	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	10	1715	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	10	1715	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	10	1715	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	10	1715	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	30mHz-1GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1732.5	QPSK	50	LOW	13.6GHz-20GHz	Pass
OB4	10	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	10	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	10	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	10	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	10	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	10	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	10	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass

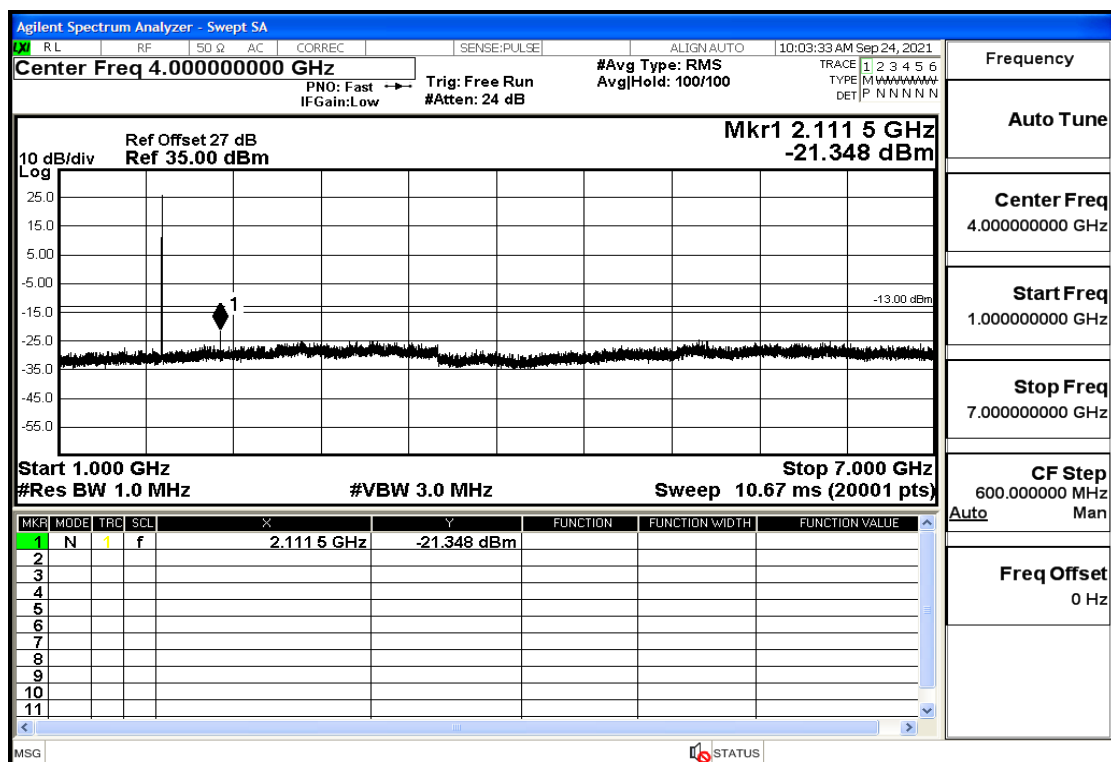
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OB4	10	1750	QPSK	50	LOW	1GHz-7GHz	Pass
OB4	10	1750	QPSK	50	LOW	7GHz-13.6GHz	Pass
OB4	10	1750	QPSK	50	LOW	13.6GHz-20GHz	Pass
OB4	10	1750	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	10	1750	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	10	1750	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	10	1750	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	10	1750	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	10	1750	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	10	1750	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	10	1750	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1717.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	15	1717.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	15	1717.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	15	1717.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	15	1717.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	15	1717.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	15	1717.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	15	1717.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	15	1717.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1732.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	15	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	15	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	15	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	15	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	15	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	15	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	15	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	15	1732.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	30mHz-1GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	1GHz-7GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	7GHz-13.6GHz	Pass
OB4	15	1747.5	QPSK	75	LOW	13.6GHz-20GHz	Pass
OB4	15	1747.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	15	1747.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	15	1747.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	15	1747.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	15	1747.5	QPSK	1	HIGH	30mHz-1GHz	Pass

OB4	15	1747.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	15	1747.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	15	1747.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	20	1720	QPSK	100	LOW	30mHz-1GHz	Pass
OB4	20	1720	QPSK	100	LOW	1GHz-7GHz	Pass
OB4	20	1720	QPSK	100	LOW	7GHz-13.6GHz	Pass
OB4	20	1720	QPSK	100	LOW	13.6GHz-20GHz	Pass
OB4	20	1720	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	20	1720	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	20	1720	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	20	1720	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	20	1720	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	20	1720	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	20	1720	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	20	1720	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	20	1732.5	QPSK	100	LOW	30mHz-1GHz	Pass
OB4	20	1732.5	QPSK	100	LOW	1GHz-7GHz	Pass
OB4	20	1732.5	QPSK	100	LOW	7GHz-13.6GHz	Pass
OB4	20	1732.5	QPSK	100	LOW	13.6GHz-20GHz	Pass
OB4	20	1732.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	20	1732.5	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	20	1732.5	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	20	1732.5	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	20	1732.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	20	1732.5	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	20	1732.5	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	20	1732.5	QPSK	1	HIGH	13.6GHz-20GHz	Pass
OB4	20	1745	QPSK	100	LOW	30mHz-1GHz	Pass
OB4	20	1745	QPSK	100	LOW	1GHz-7GHz	Pass
OB4	20	1745	QPSK	100	LOW	7GHz-13.6GHz	Pass
OB4	20	1745	QPSK	100	LOW	13.6GHz-20GHz	Pass
OB4	20	1745	QPSK	1	LOW	30mHz-1GHz	Pass
OB4	20	1745	QPSK	1	LOW	1GHz-7GHz	Pass
OB4	20	1745	QPSK	1	LOW	7GHz-13.6GHz	Pass
OB4	20	1745	QPSK	1	LOW	13.6GHz-20GHz	Pass
OB4	20	1745	QPSK	1	HIGH	30mHz-1GHz	Pass
OB4	20	1745	QPSK	1	HIGH	1GHz-7GHz	Pass
OB4	20	1745	QPSK	1	HIGH	7GHz-13.6GHz	Pass
OB4	20	1745	QPSK	1	HIGH	13.6GHz-20GHz	Pass

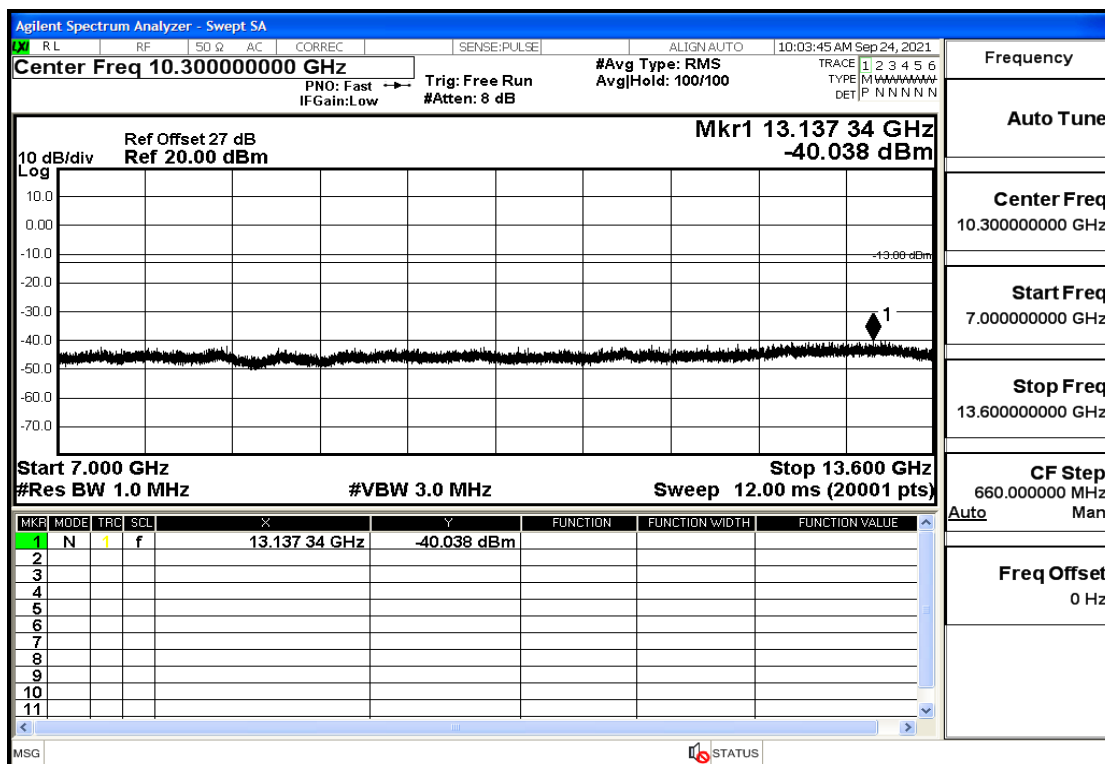
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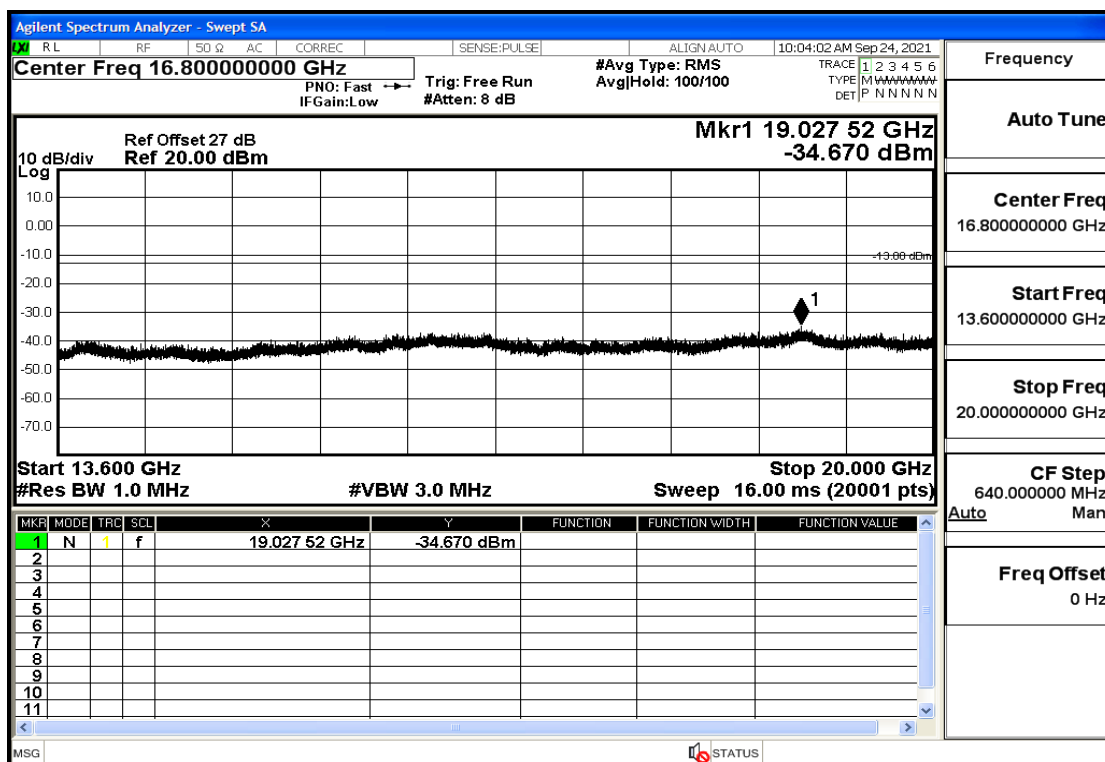
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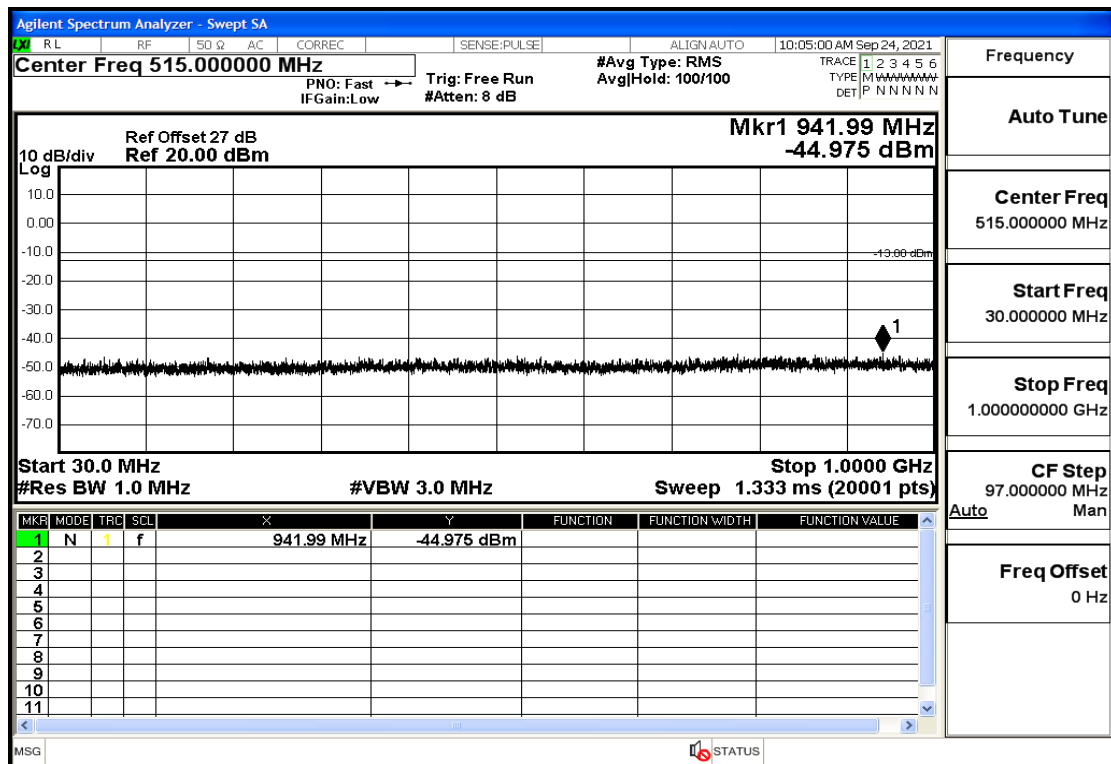
OB4-1.4-1710.7-QPSK-6#LOW@7GHz-13.6GHz@Pass



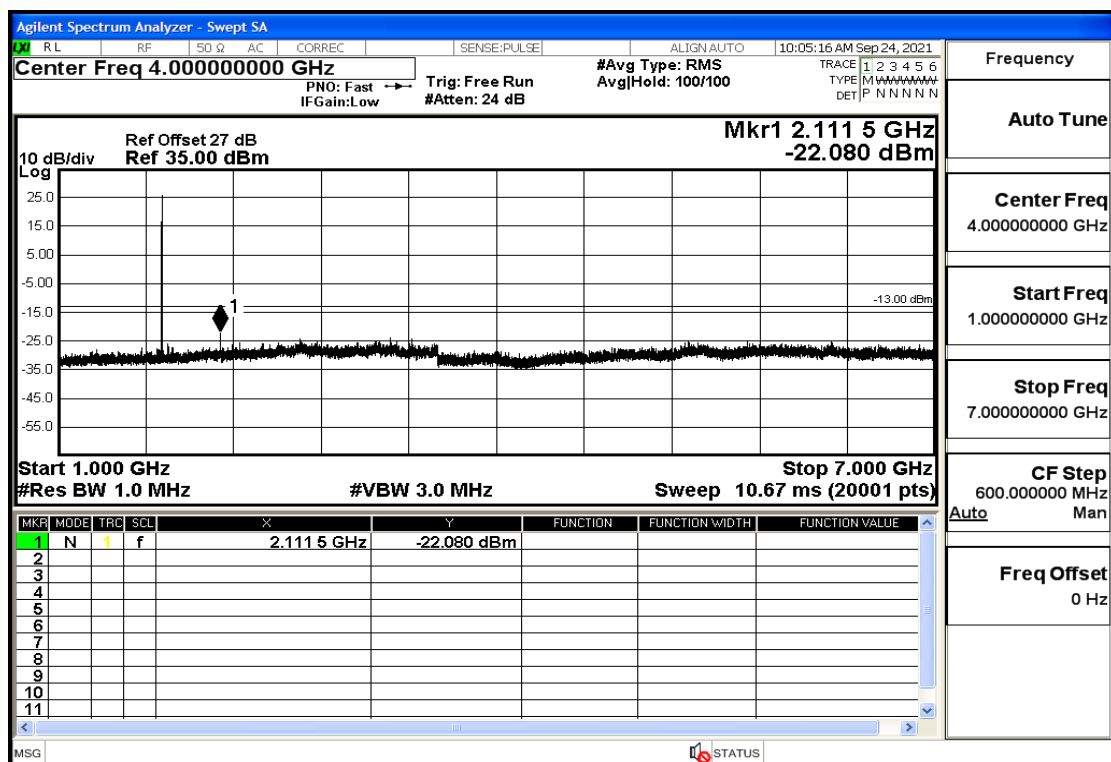
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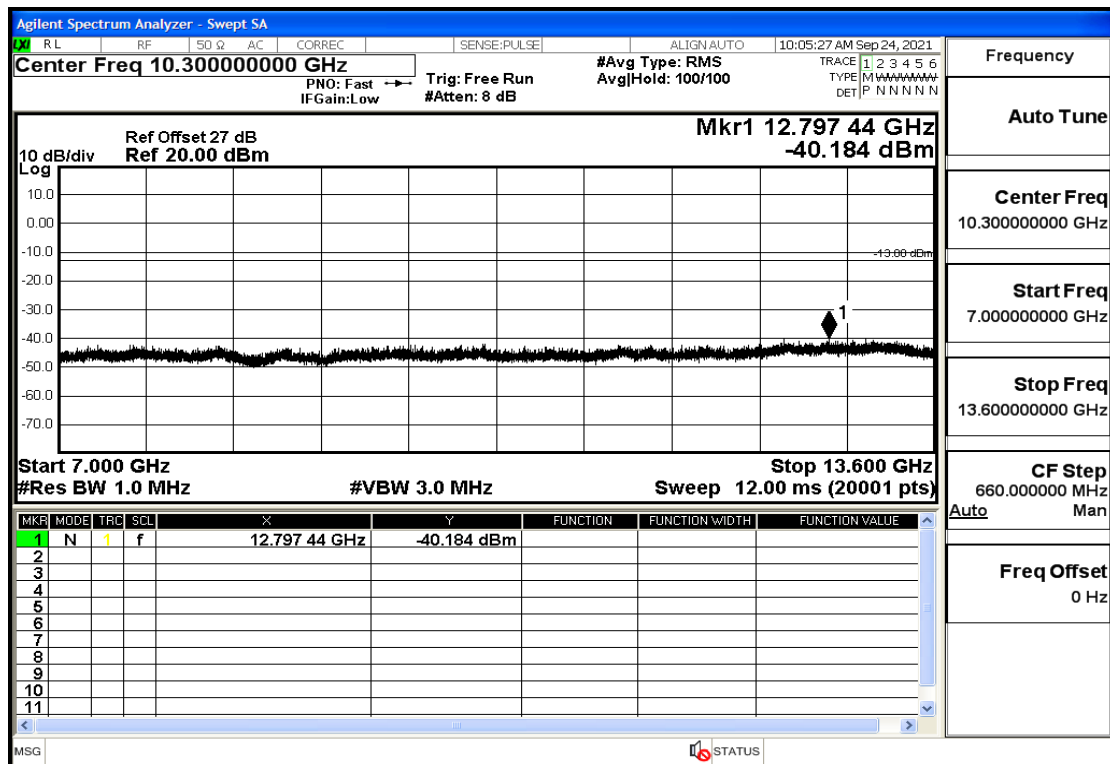
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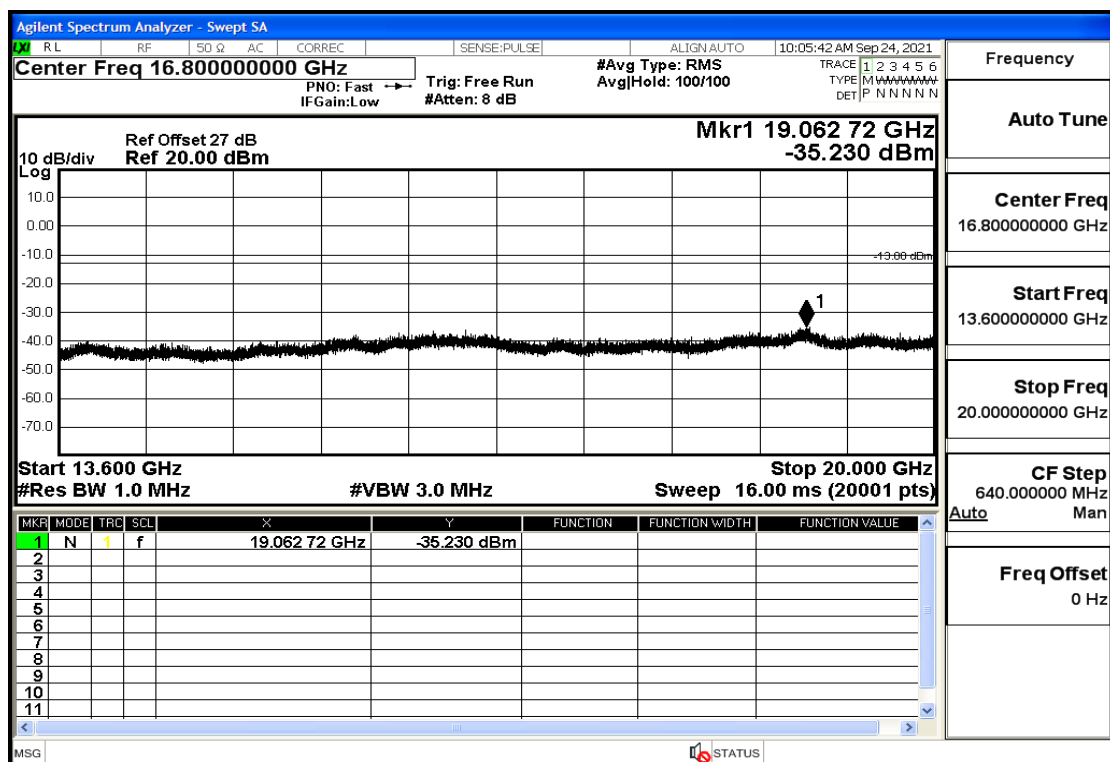
OB4-1.4-1710.7-QPSK-1#LOW@1GHz-7GHz@Pass



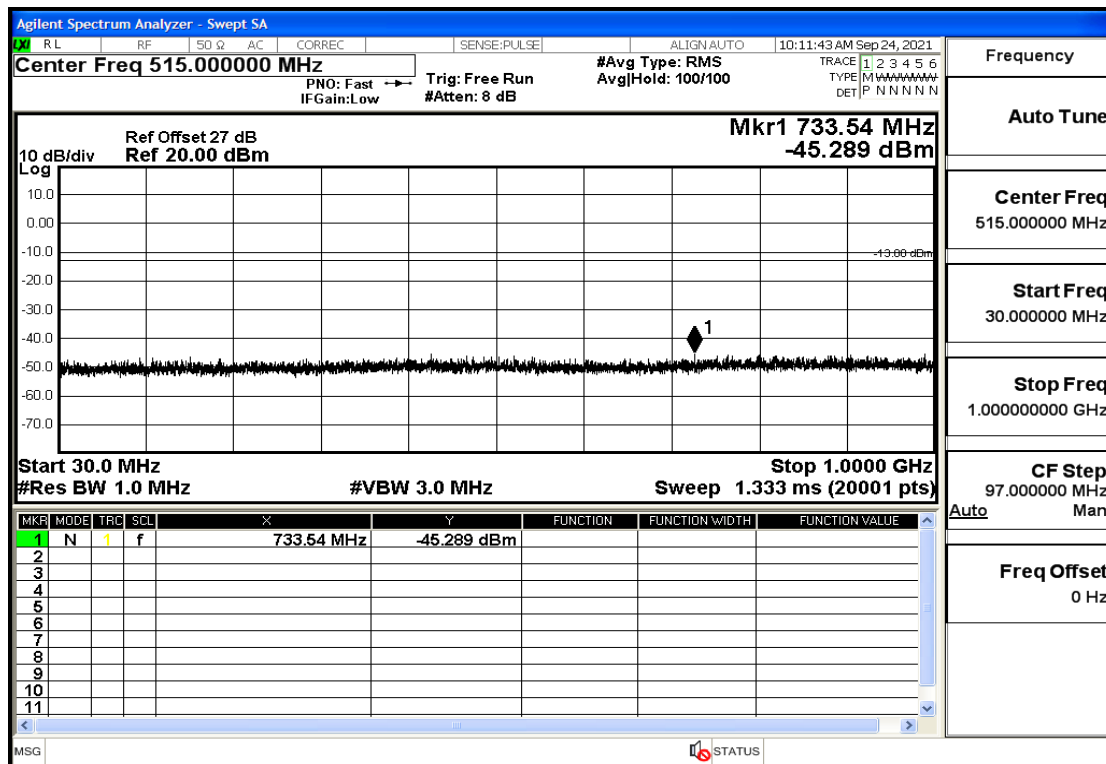
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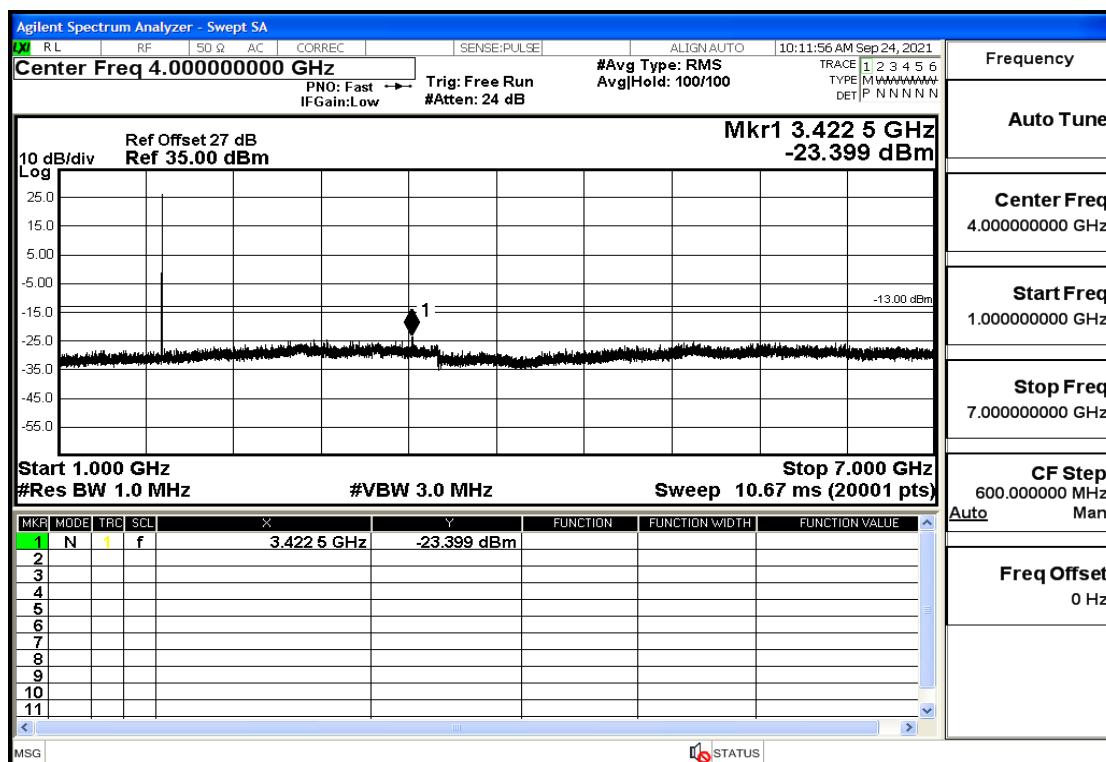
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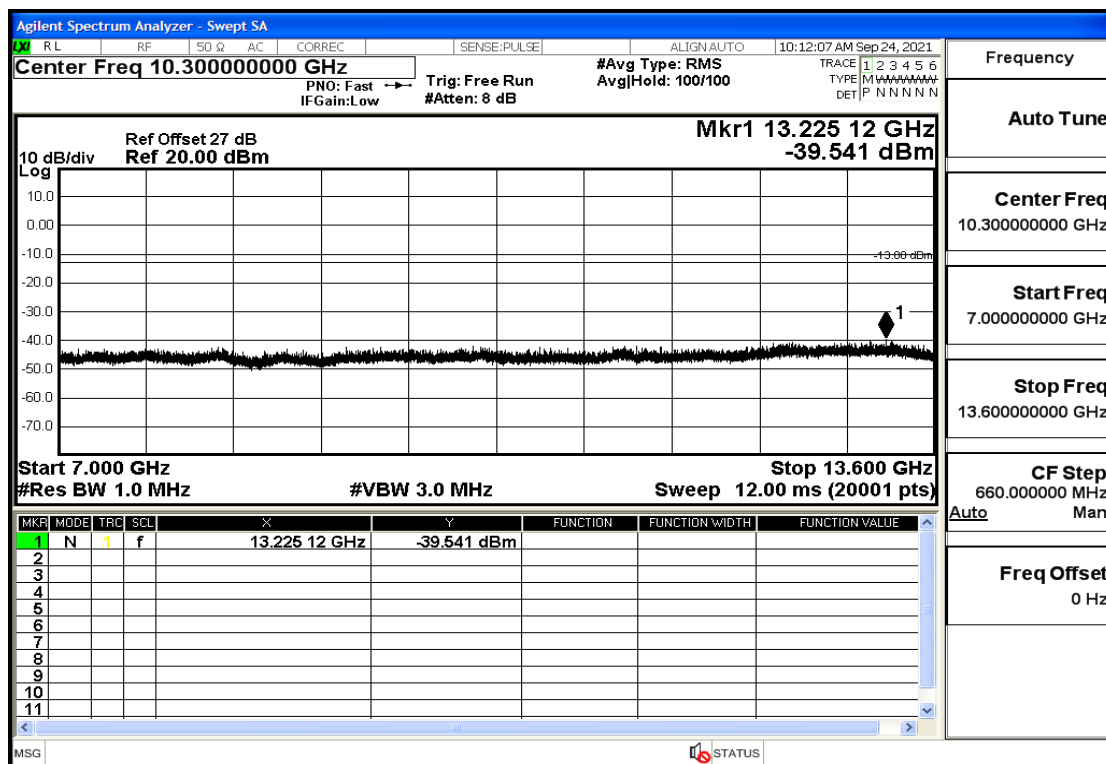
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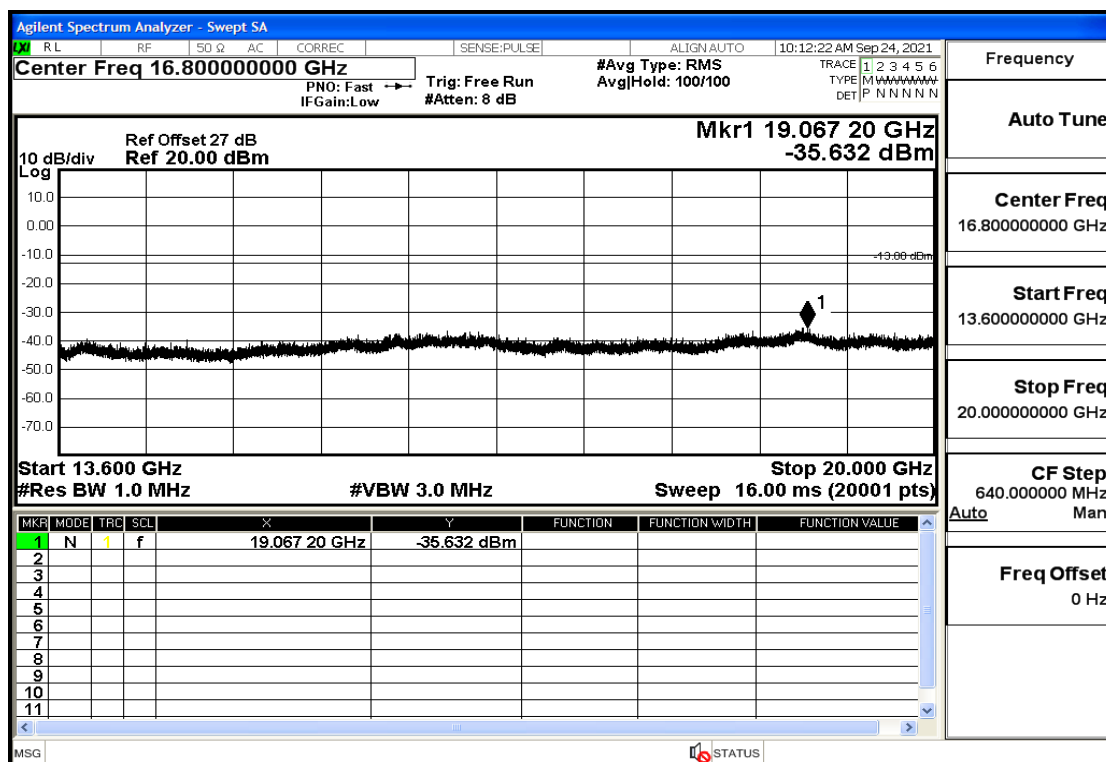
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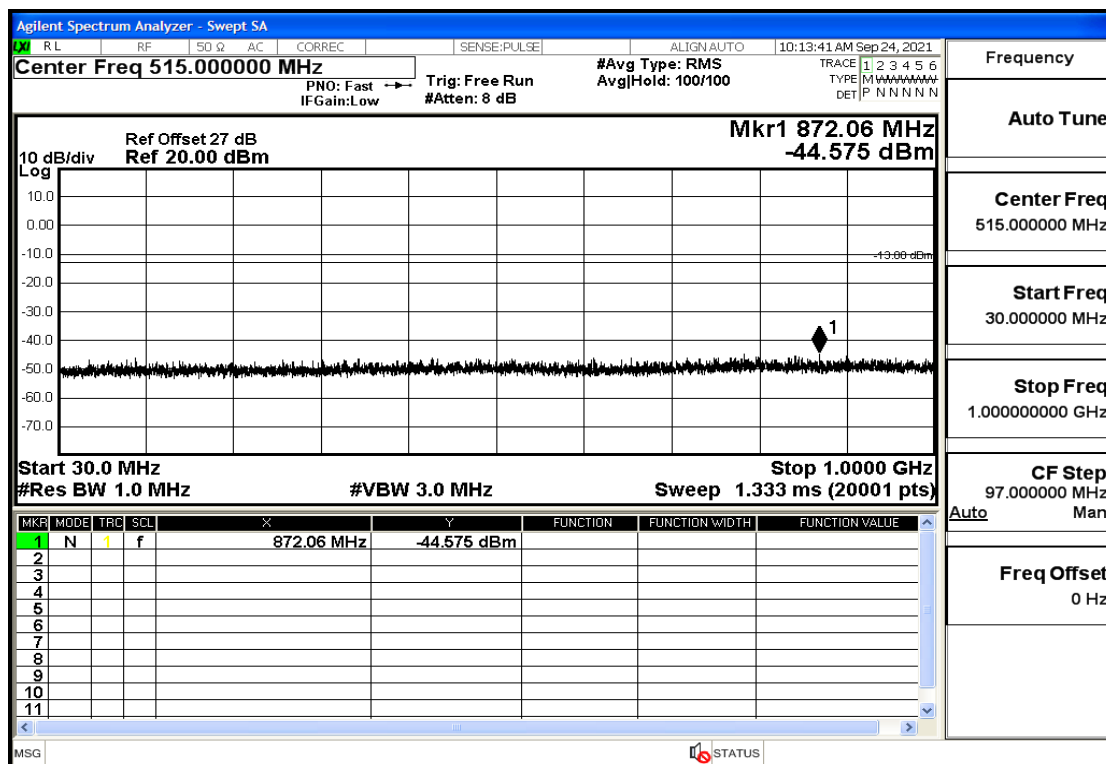
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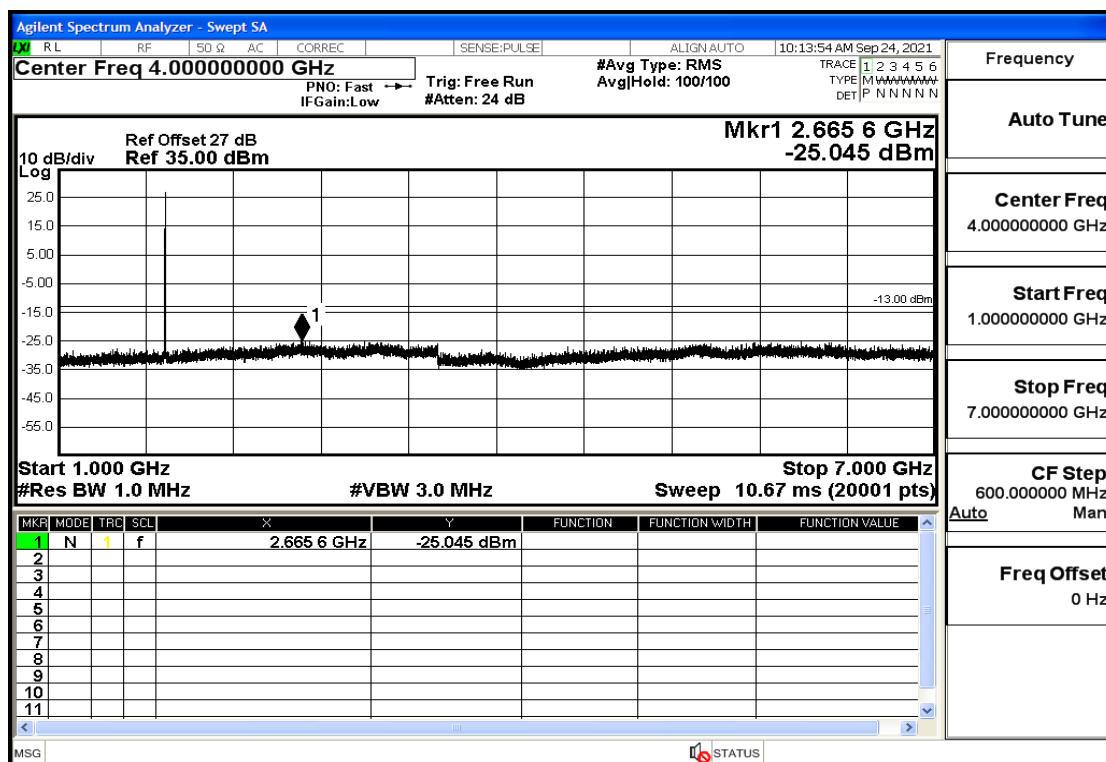
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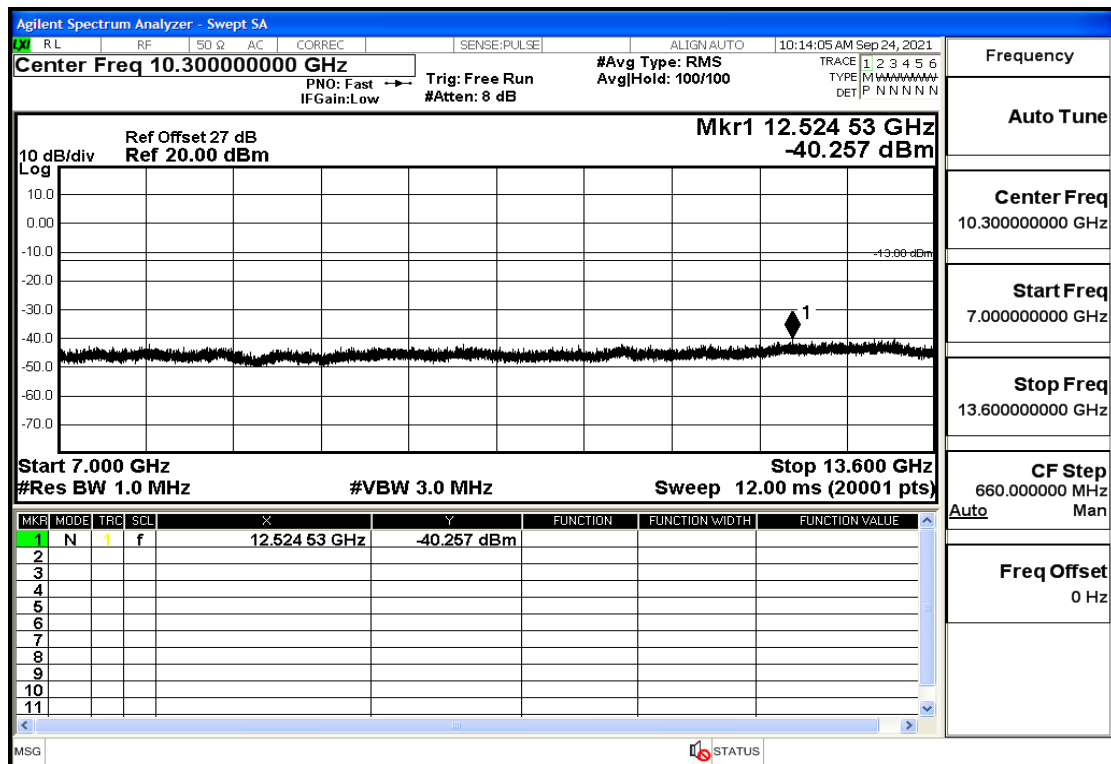
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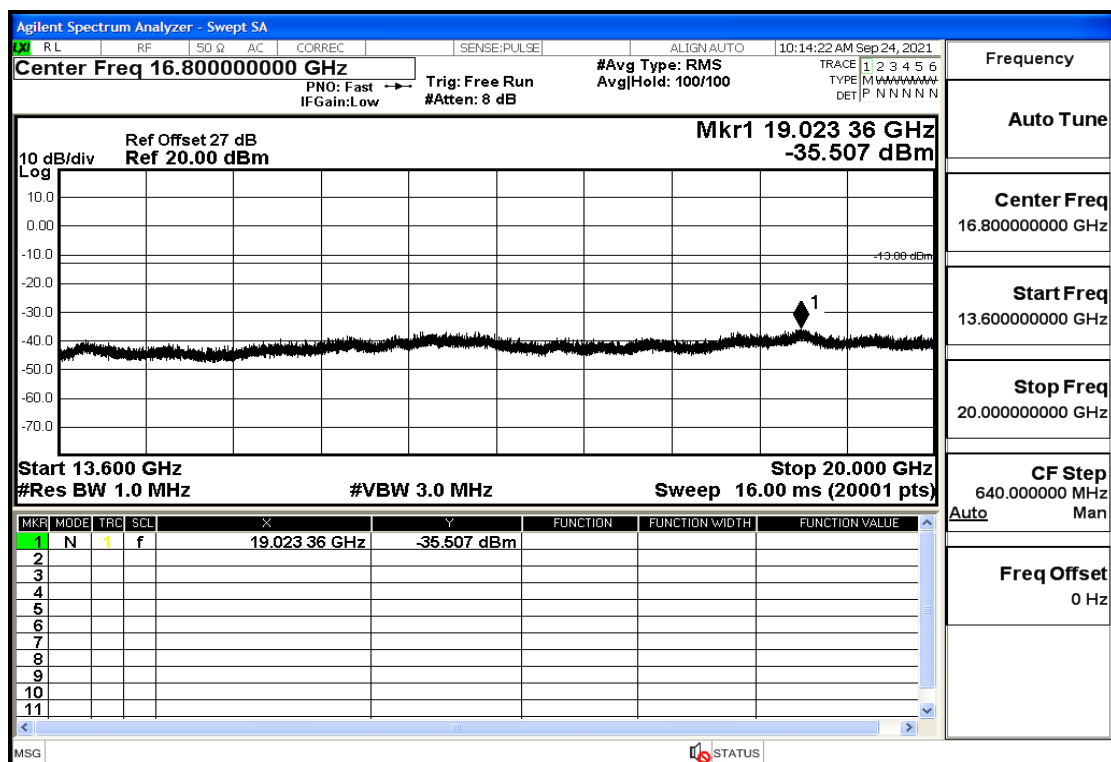
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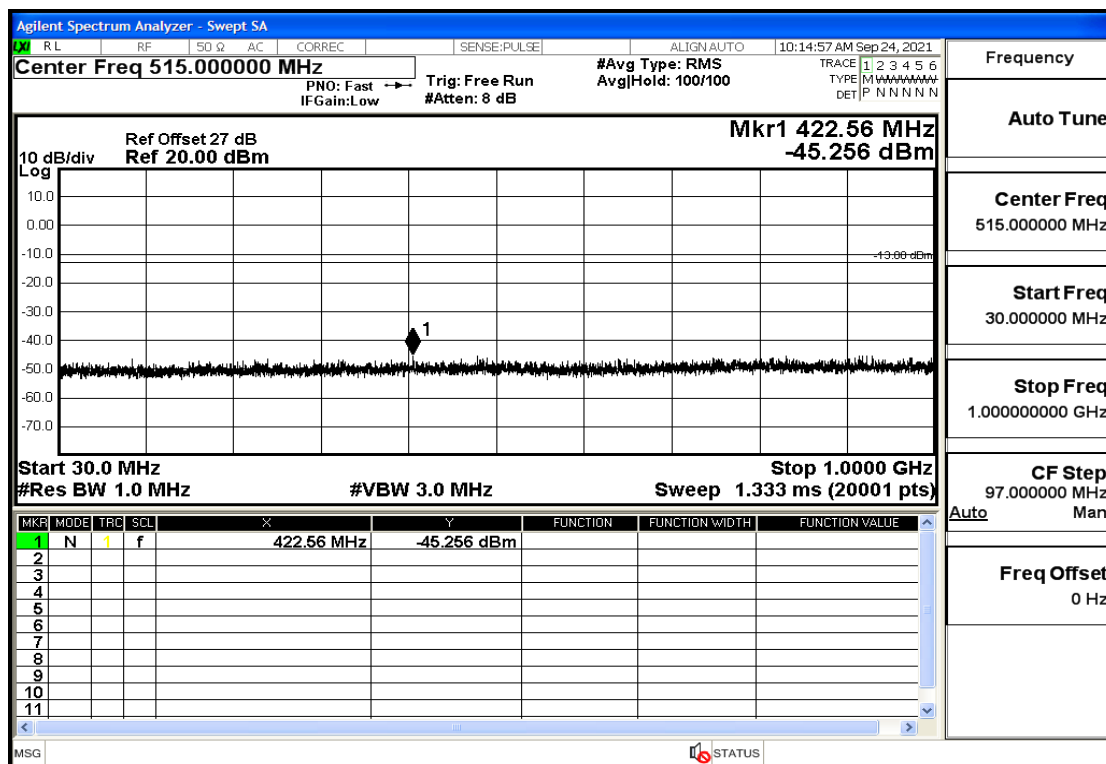
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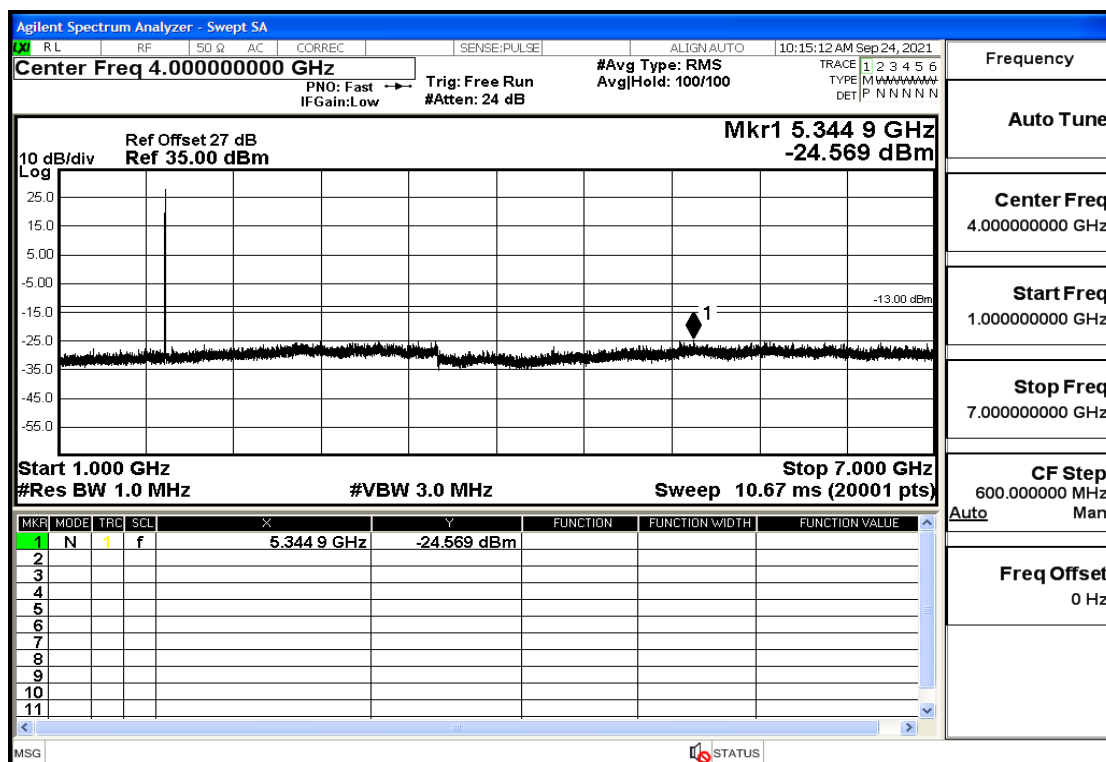
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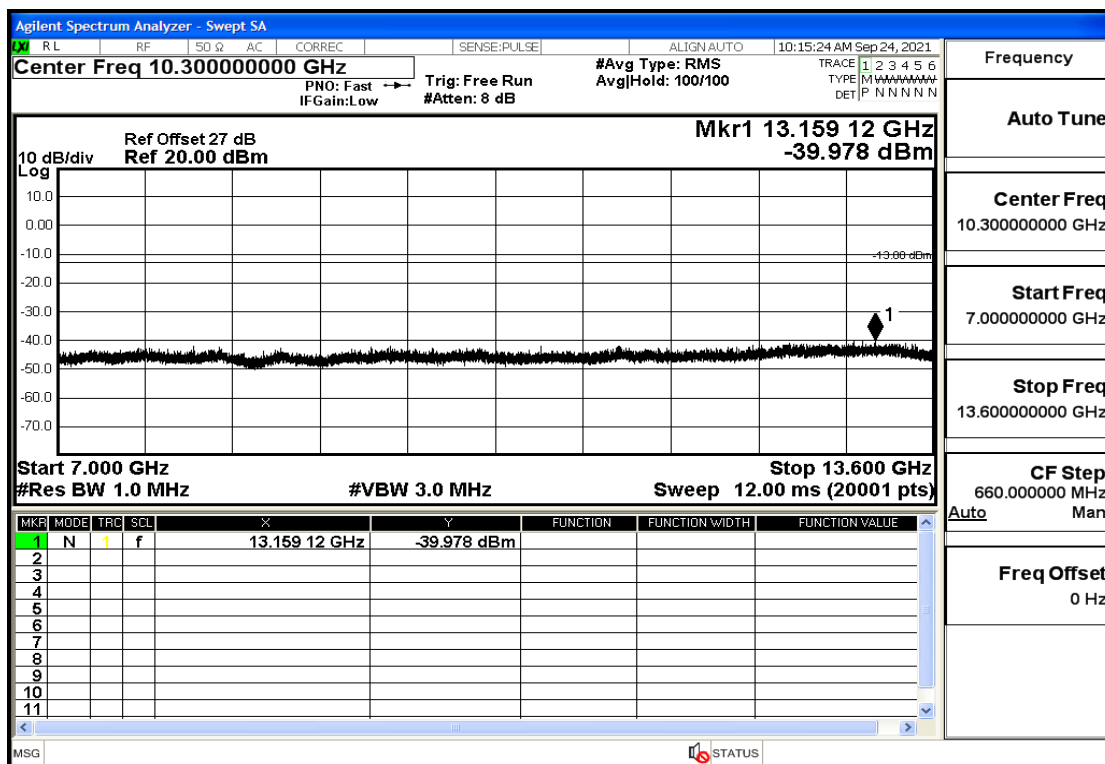
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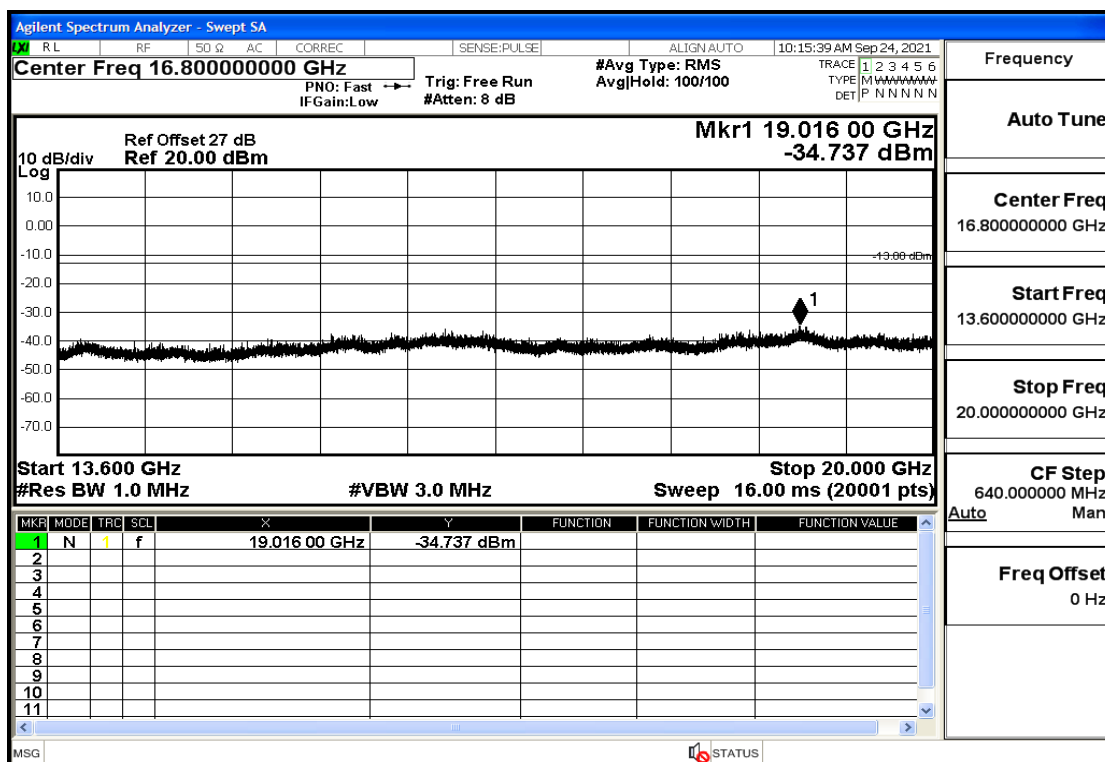
OB4-1.4-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



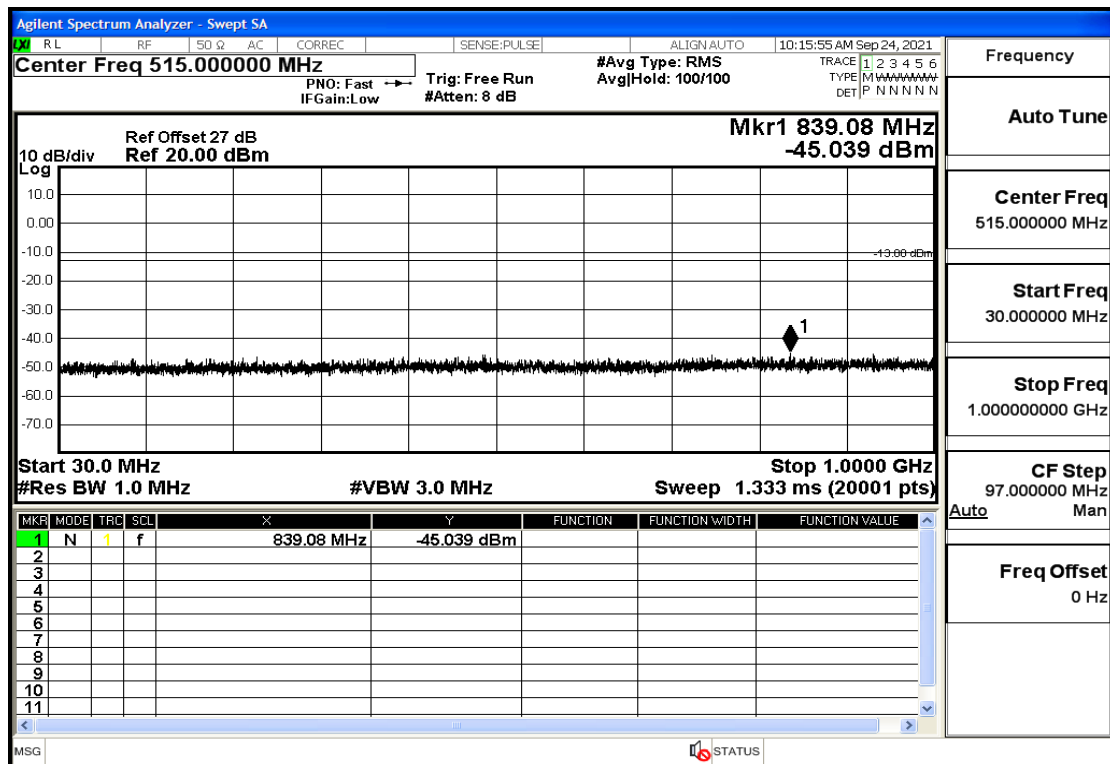
OB4-1.4-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



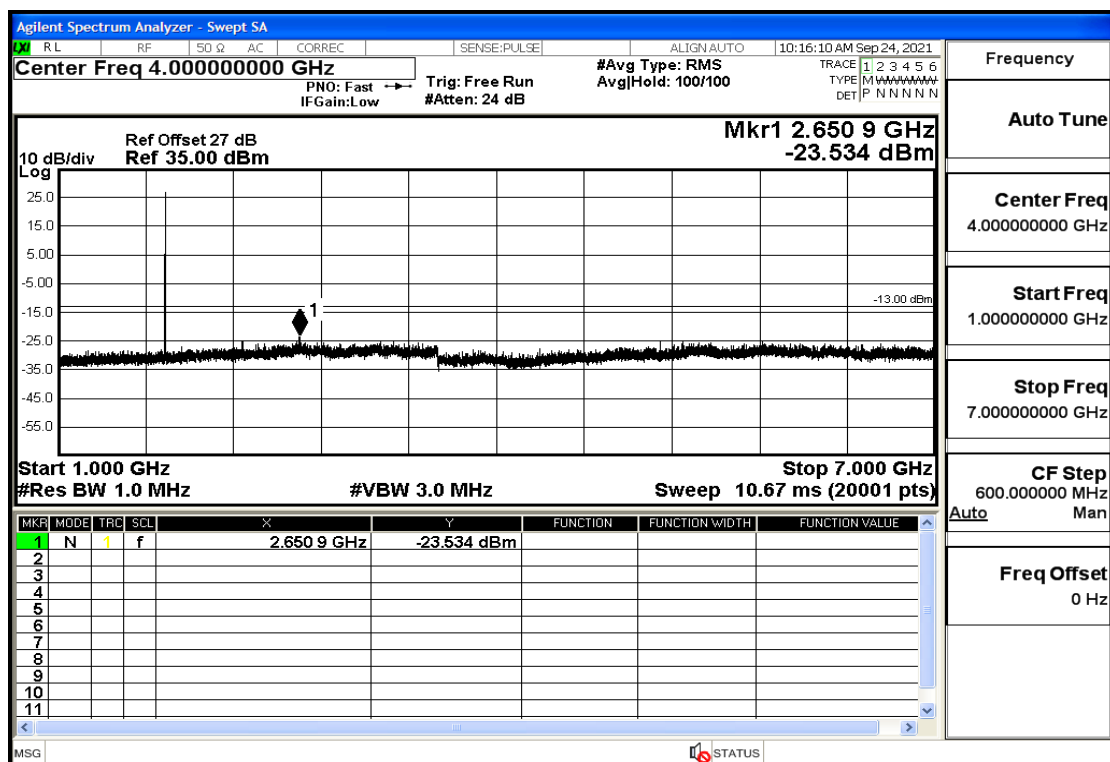
OB4-1.4-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



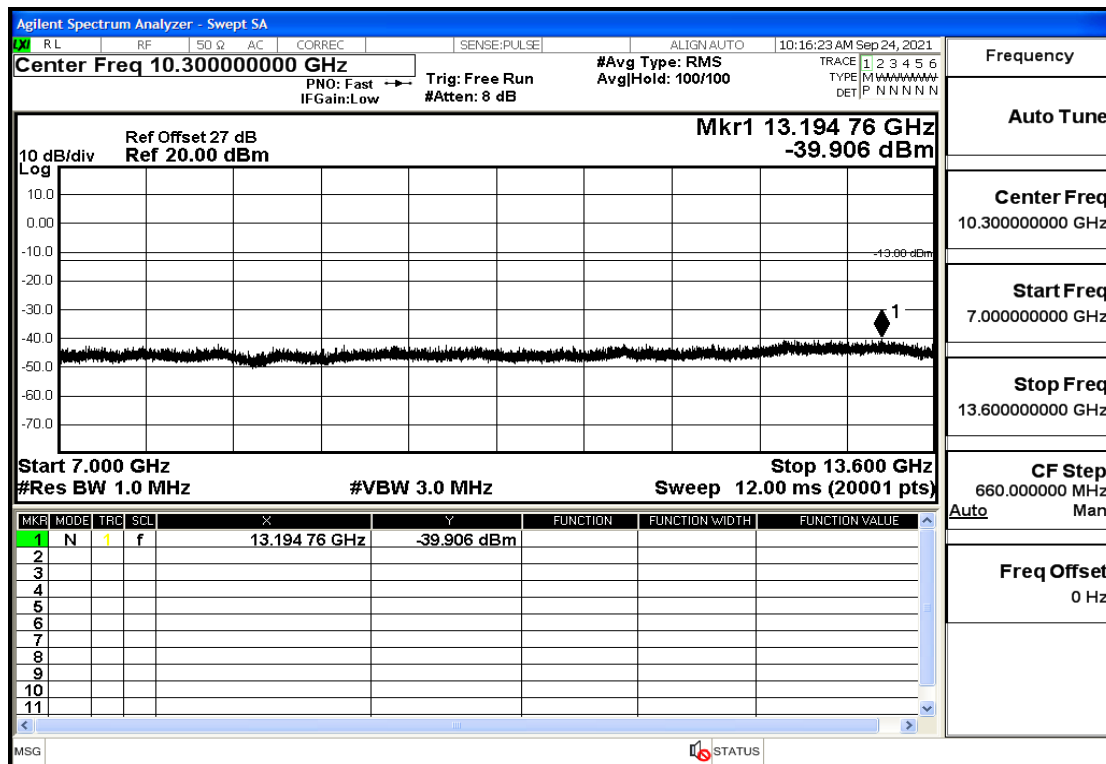
OB4-1.4-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



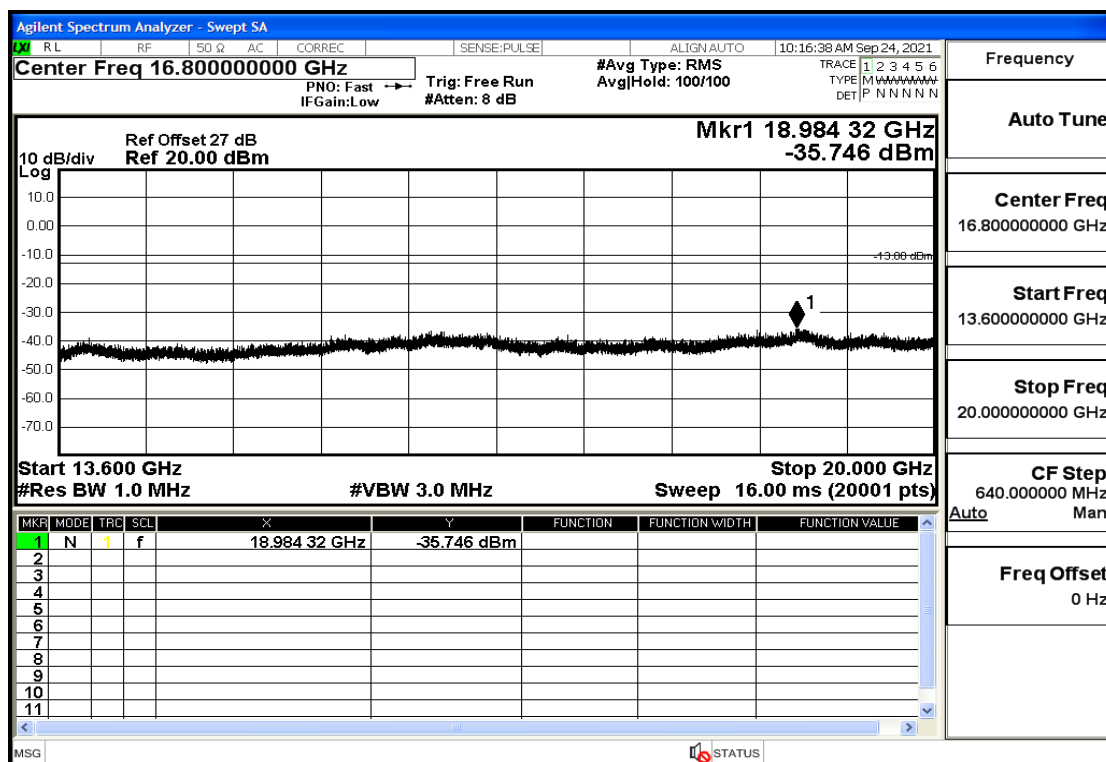
OB4-1.4-1732.5-QPSK-1#HIGH@1GHz-7GHz@Pass



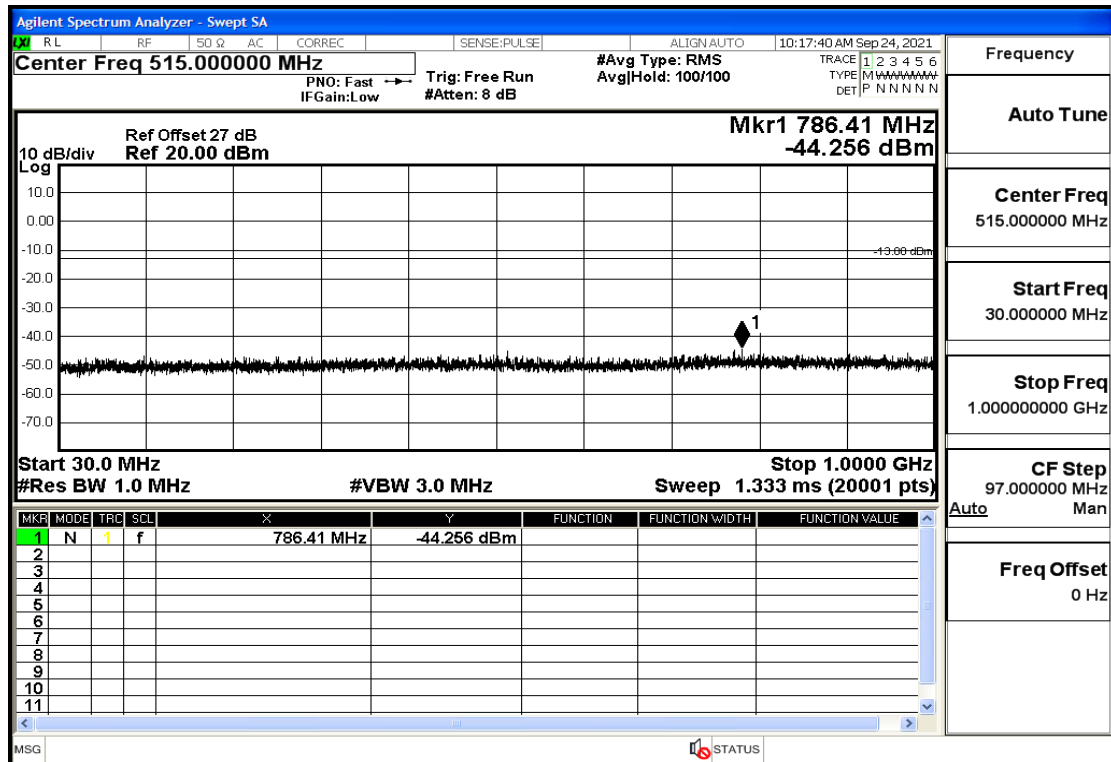
OB4-1.4-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



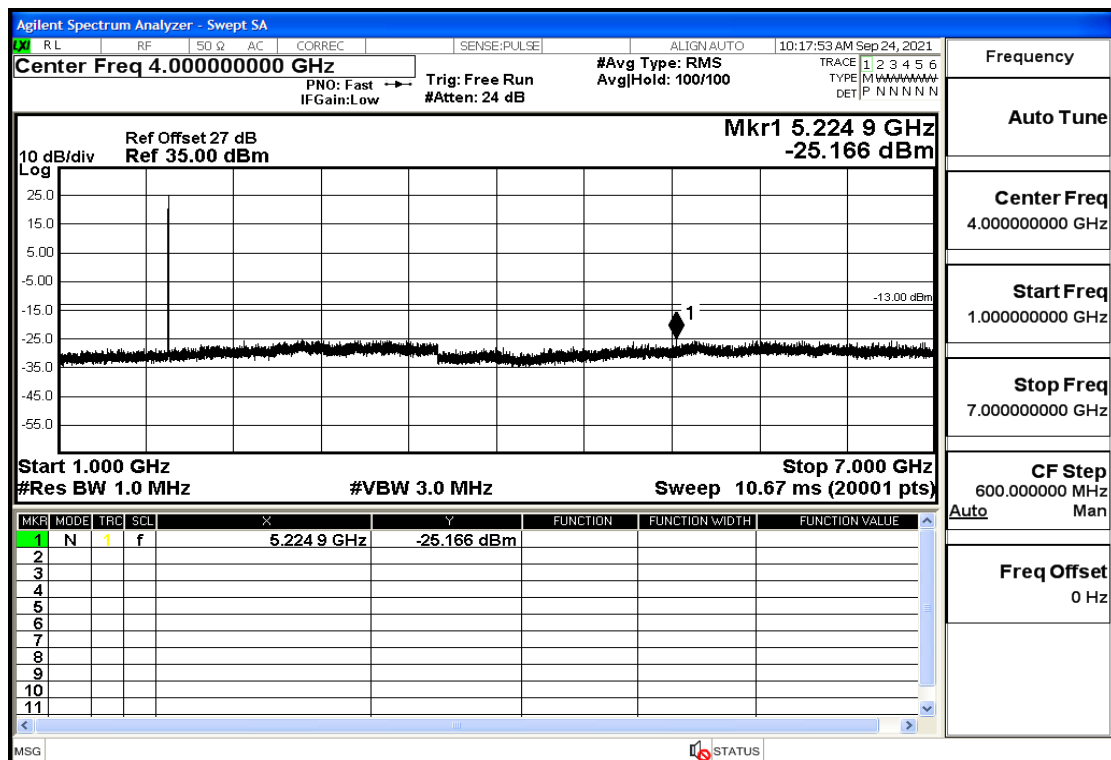
OB4-1.4-1732.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



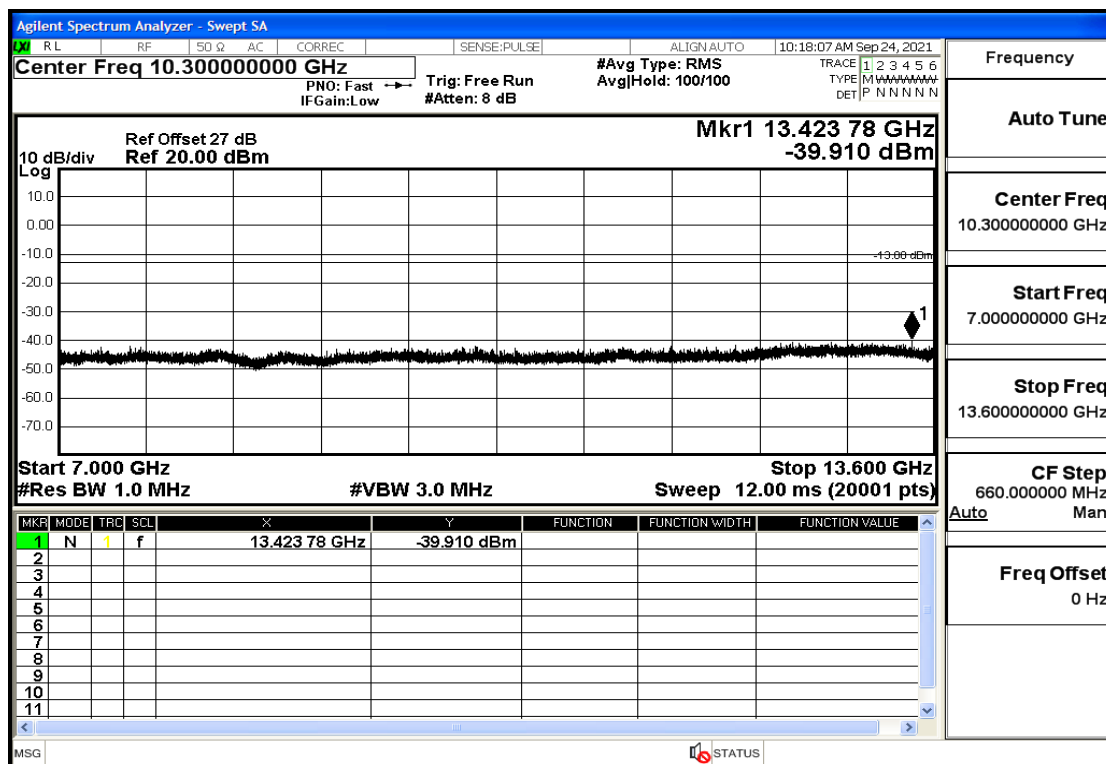
OB4-1.4-1754.3-QPSK-6#LOW@30mHz-1GHz@Pass



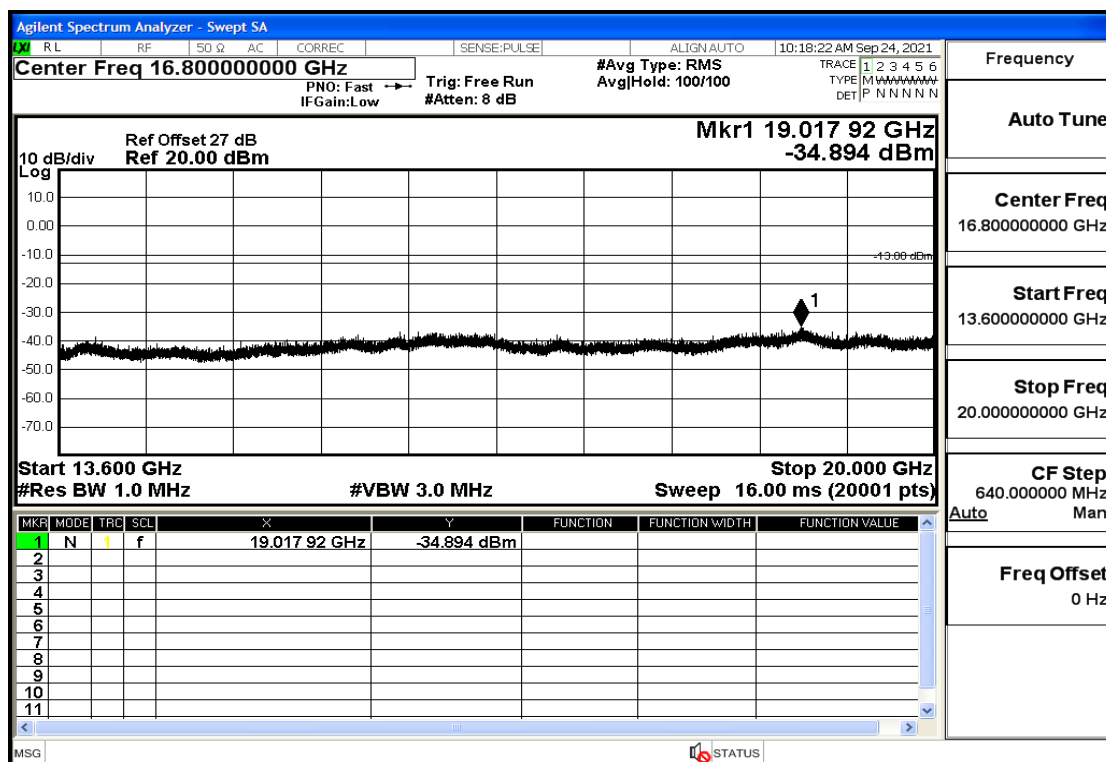
OB4-1.4-1754.3-QPSK-6#LOW@1GHz-7GHz@Pass



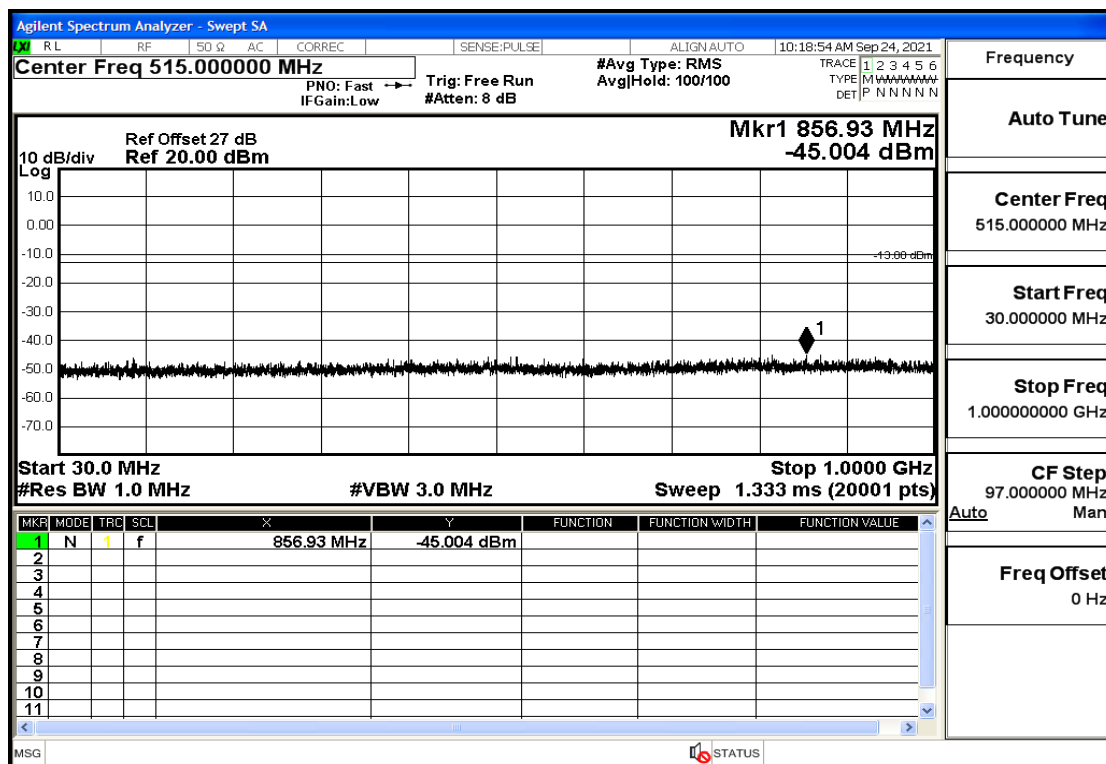
OB4-1.4-1754.3-QPSK-6#LOW@7GHz-13.6GHz@Pass



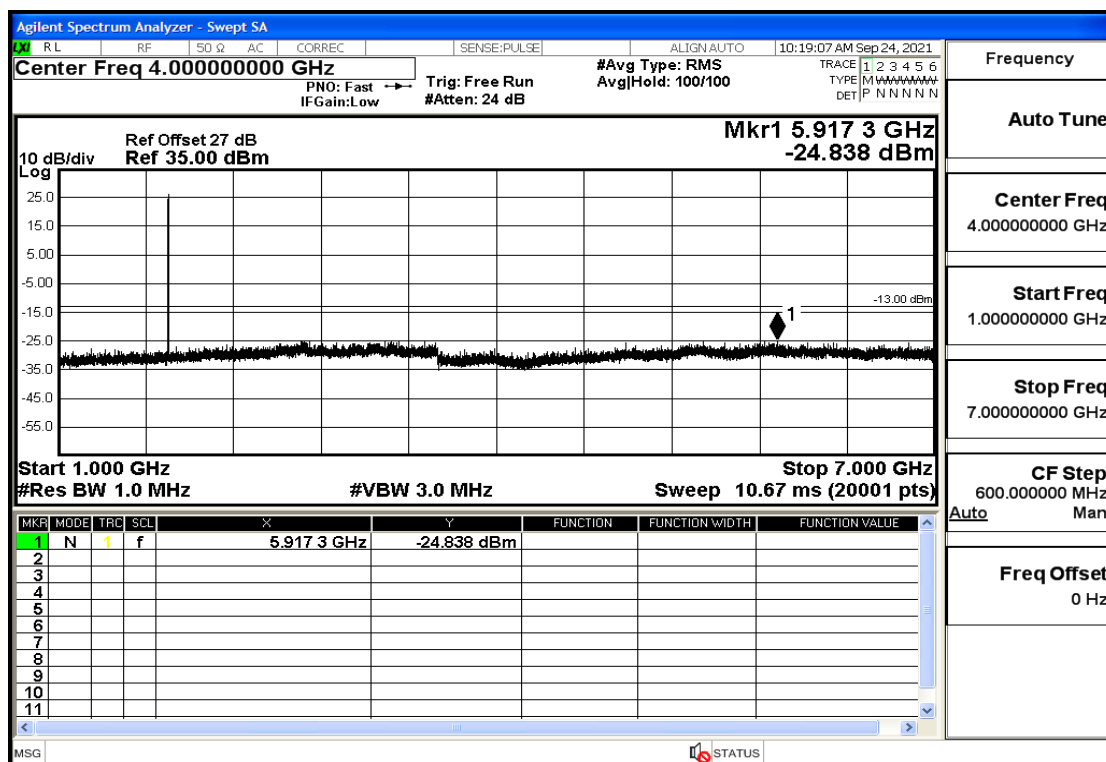
OB4-1.4-1754.3-QPSK-6#LOW@13.6GHz-20GHz@Pass



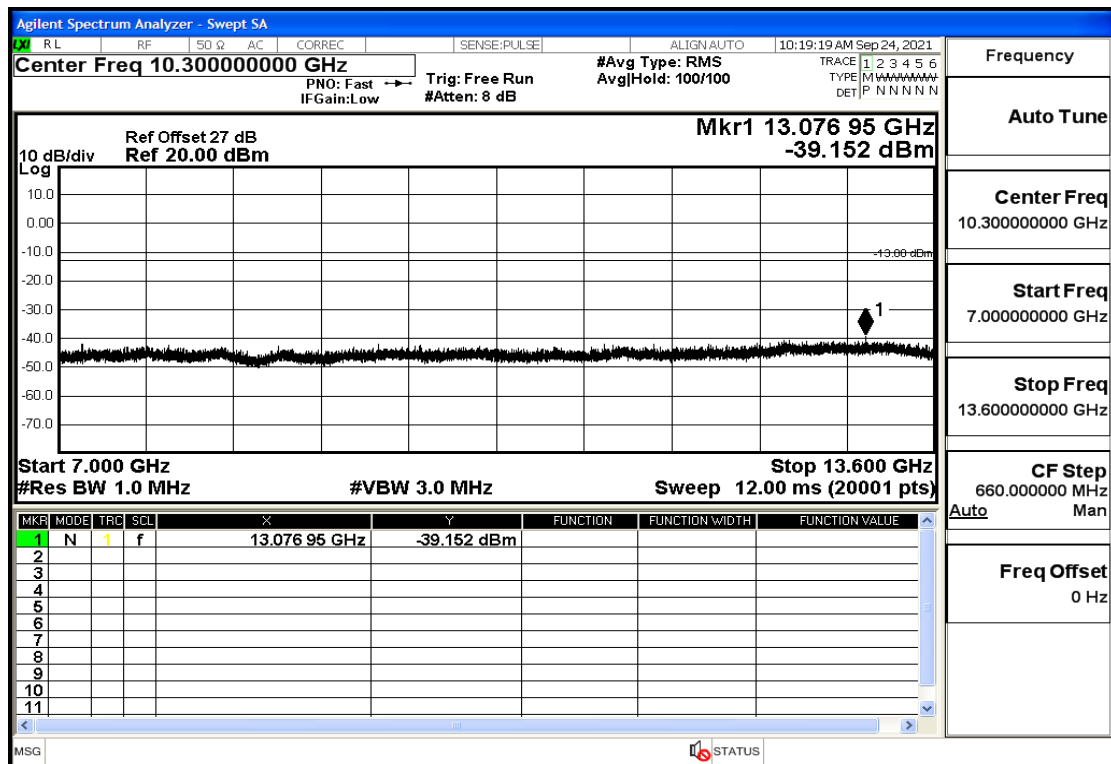
OB4-1.4-1754.3-QPSK-1#LOW@30mHz-1GHz@Pass



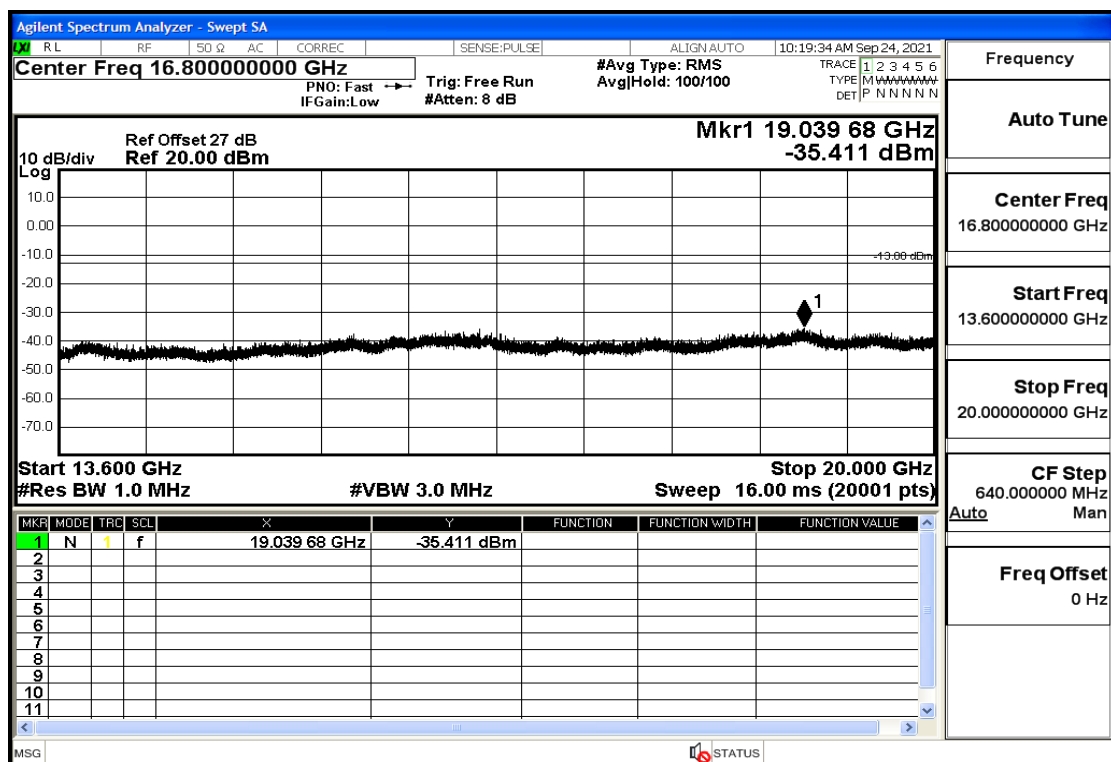
OB4-1.4-1754.3-QPSK-1#LOW@1GHz-7GHz@Pass



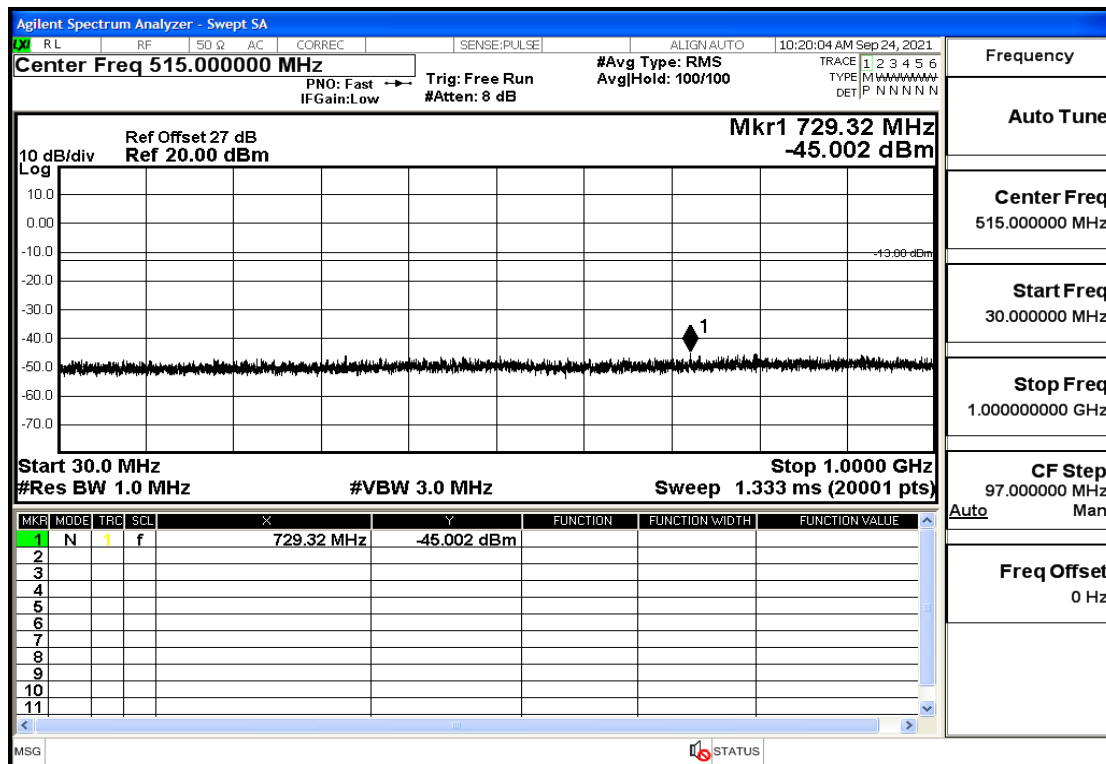
OB4-1.4-1754.3-QPSK-1#LOW@7GHz-13.6GHz@Pass



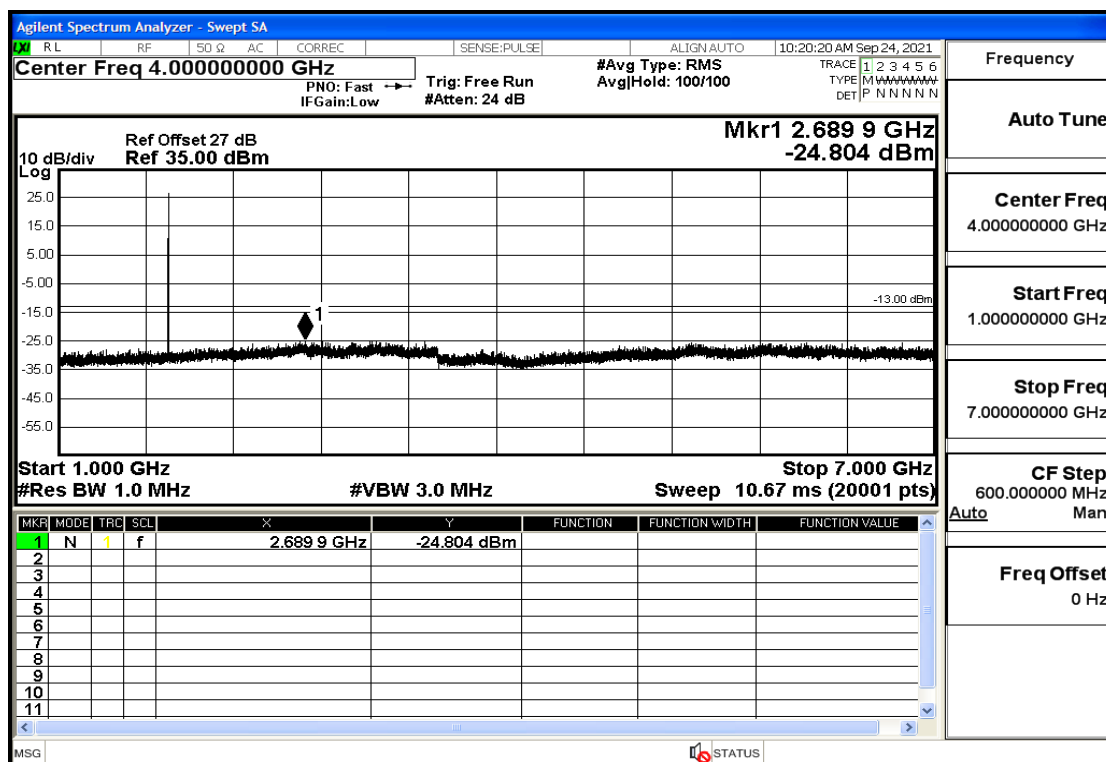
OB4-1.4-1754.3-QPSK-1#LOW@13.6GHz-20GHz@Pass



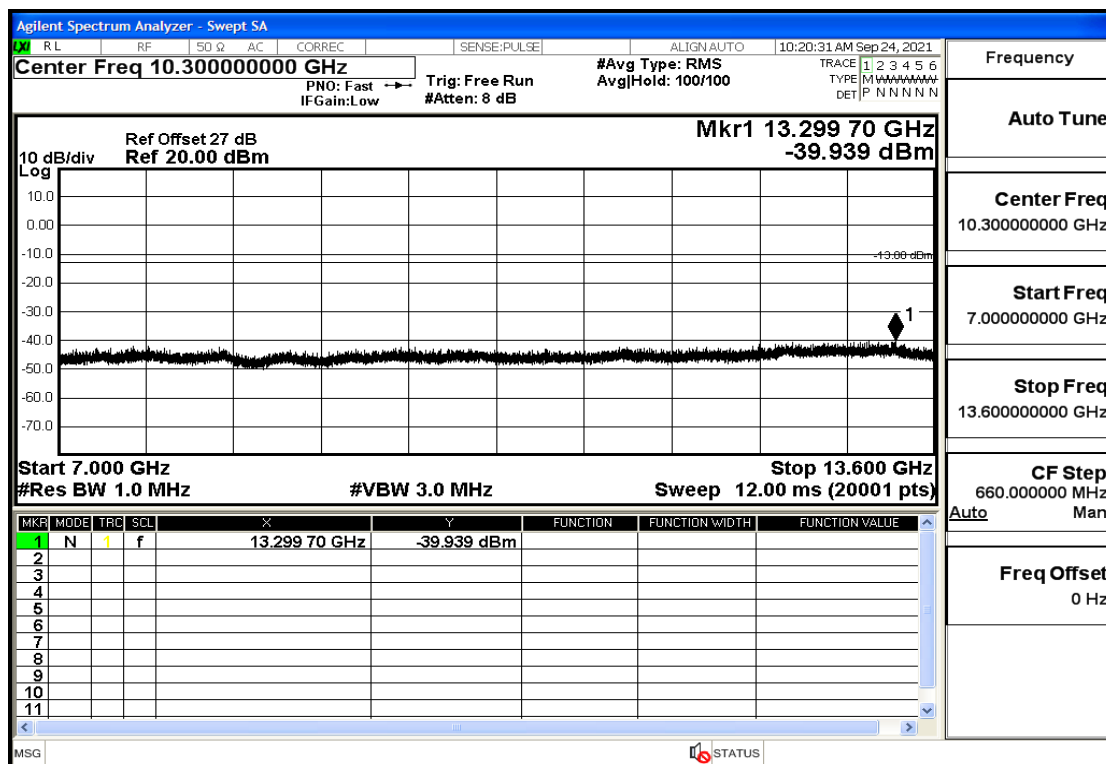
OB4-1.4-1754.3-QPSK-1#HIGH@30mHz-1GHz@Pass



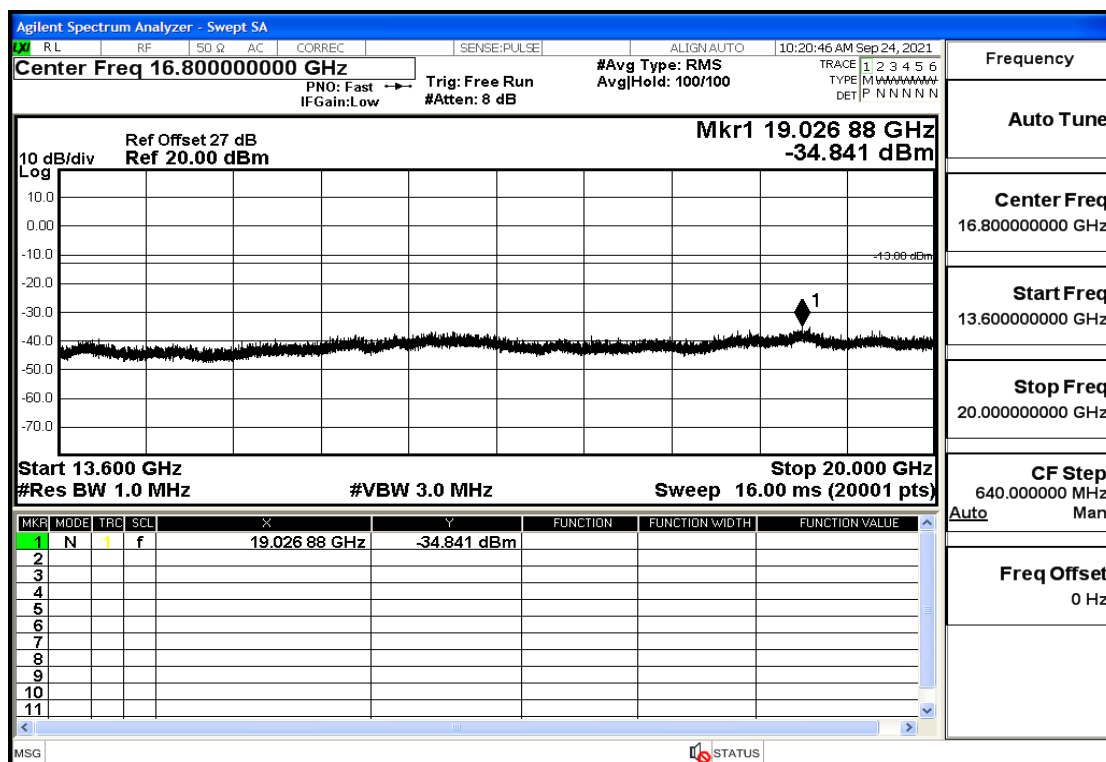
OB4-1.4-1754.3-QPSK-1#HIGH@1GHz-7GHz@Pass



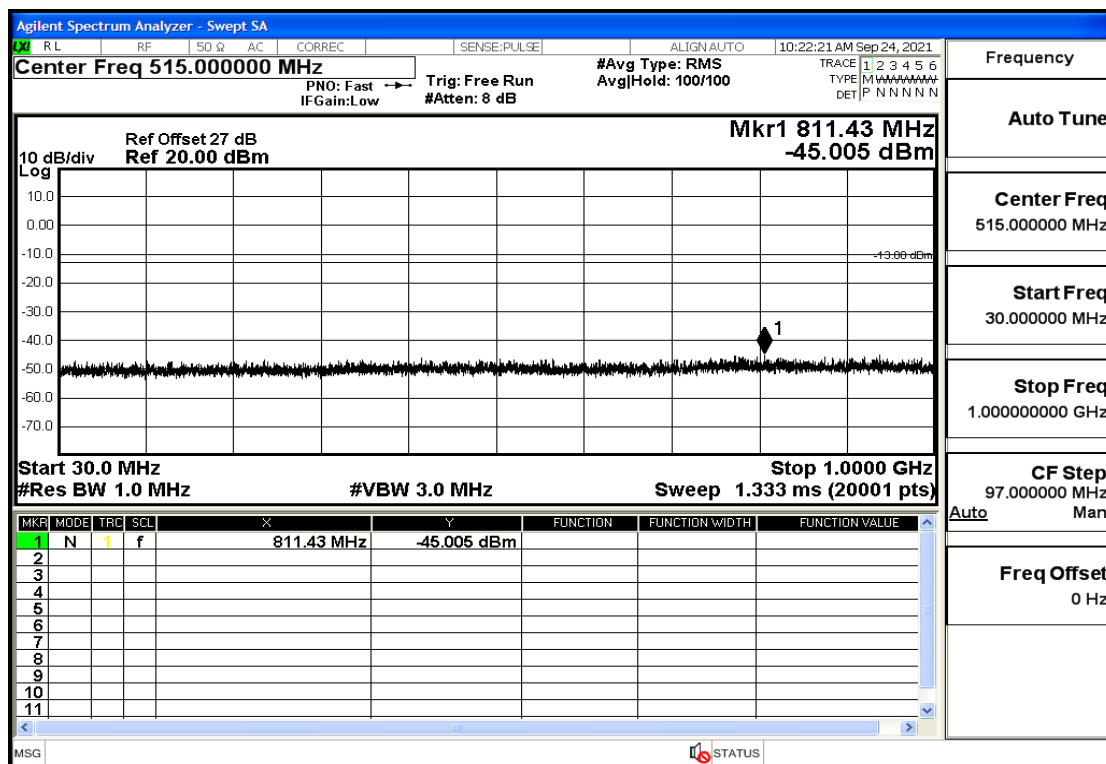
OB4-1.4-1754.3-QPSK-1#HIGH@7GHz-13.6GHz@Pass



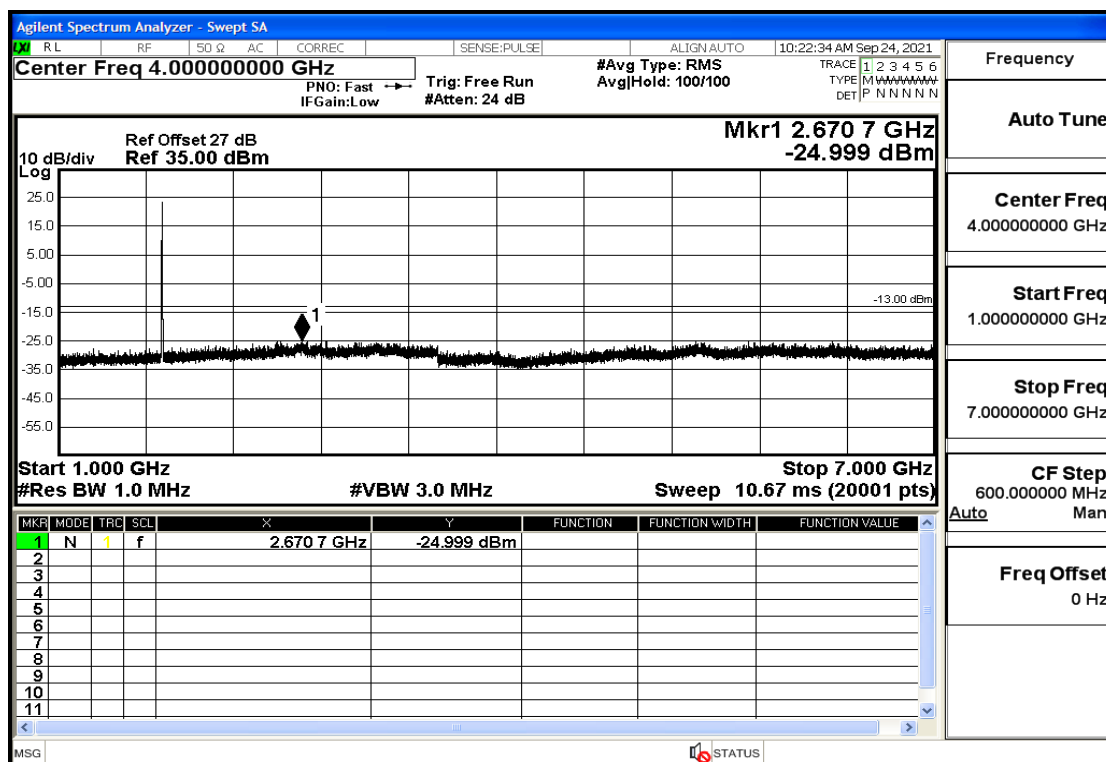
OB4-1.4-1754.3-QPSK-1#HIGH@13.6GHz-20GHz@Pass



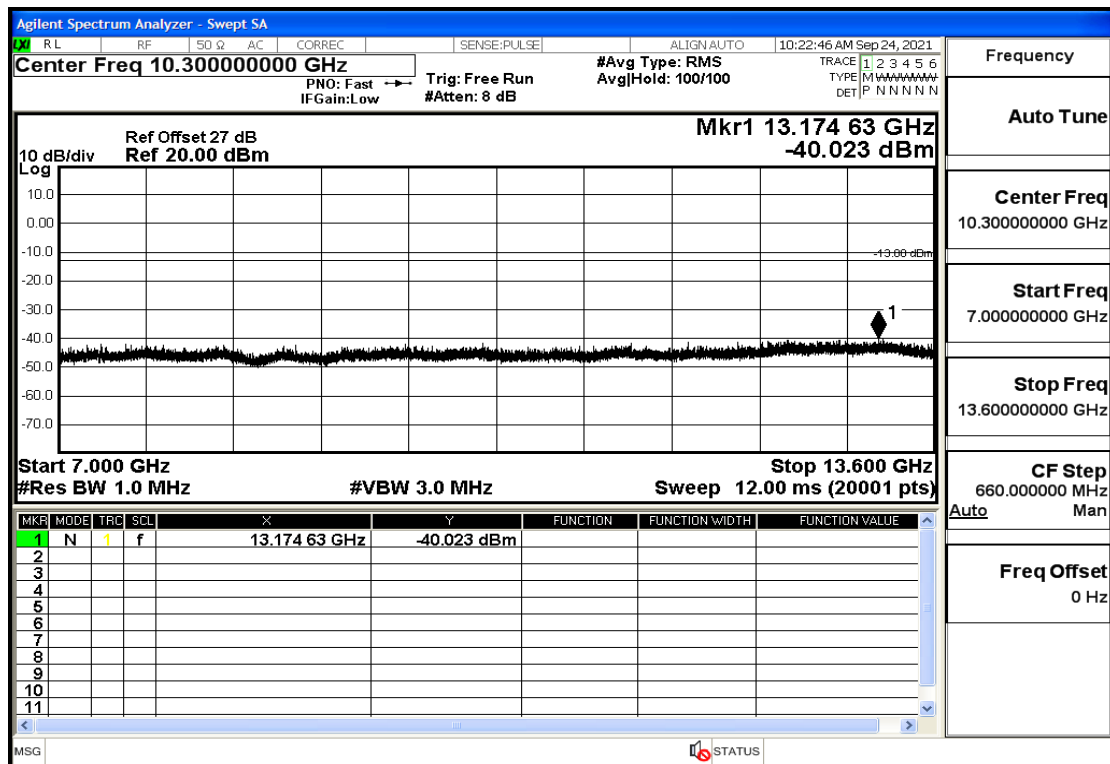
OB4-3-1711.5-QPSK-15#0@30mHz-1GHz@Pass



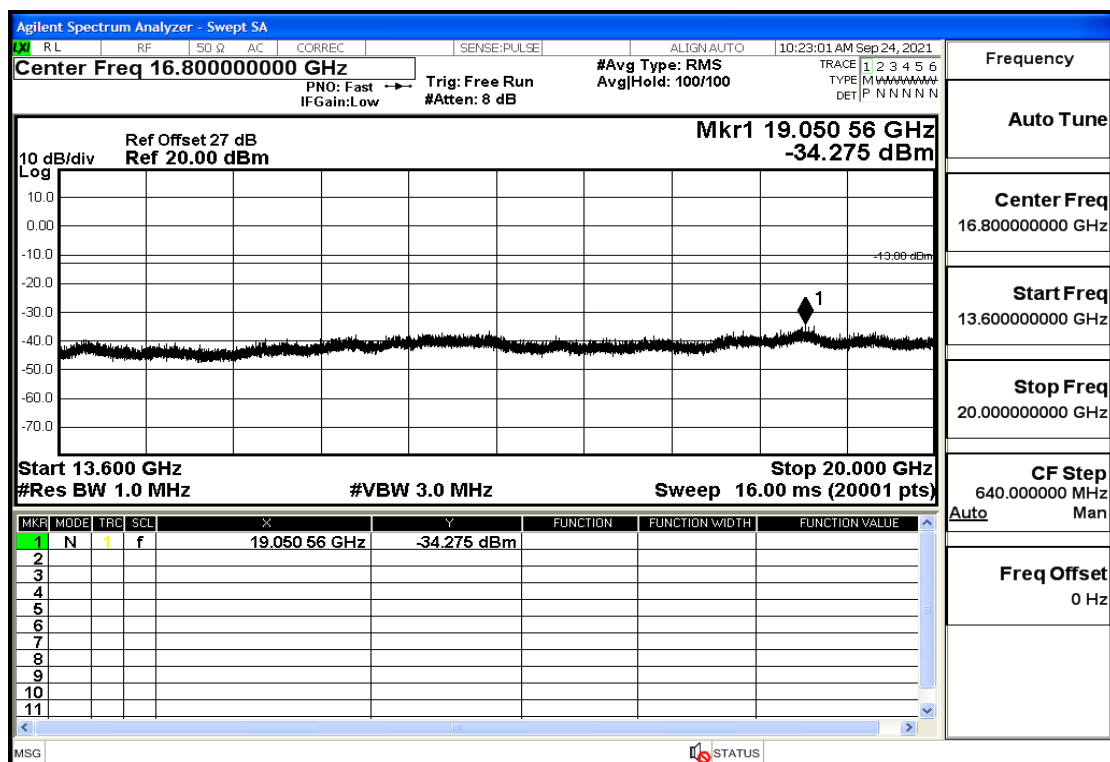
OB4-3-1711.5-QPSK-15#0@1GHz-7GHz@Pass



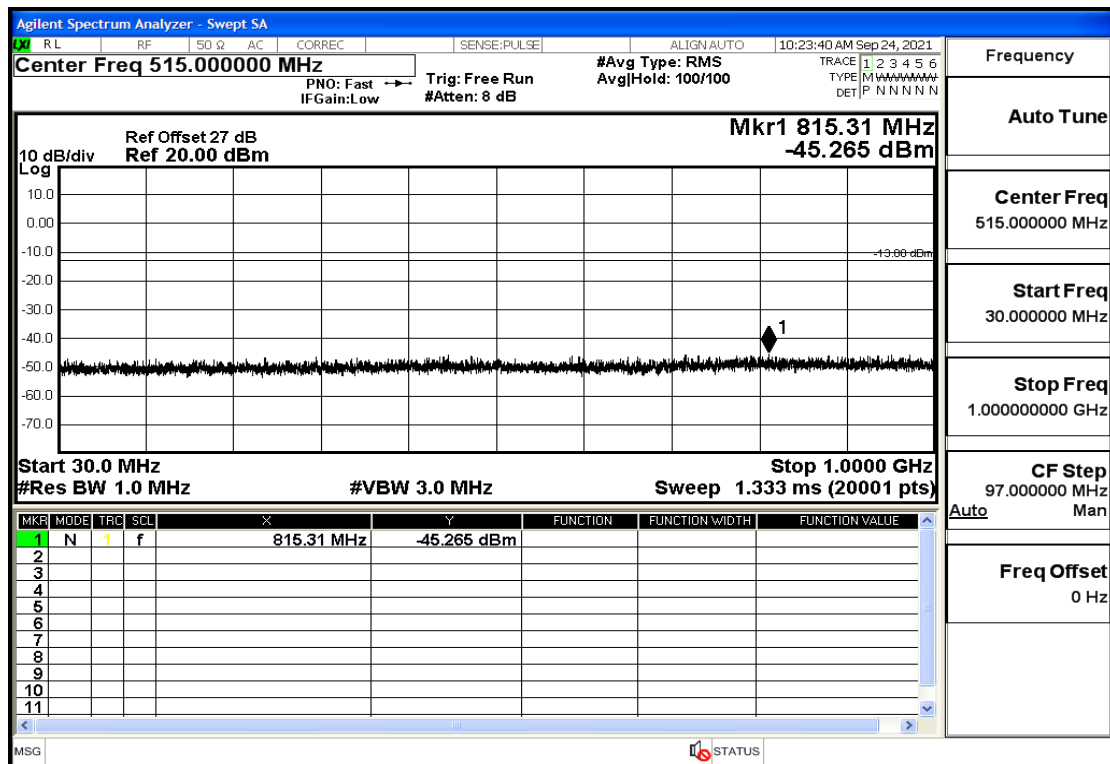
OB4-3-1711.5-QPSK-15#0@7GHz-13.6GHz@Pass



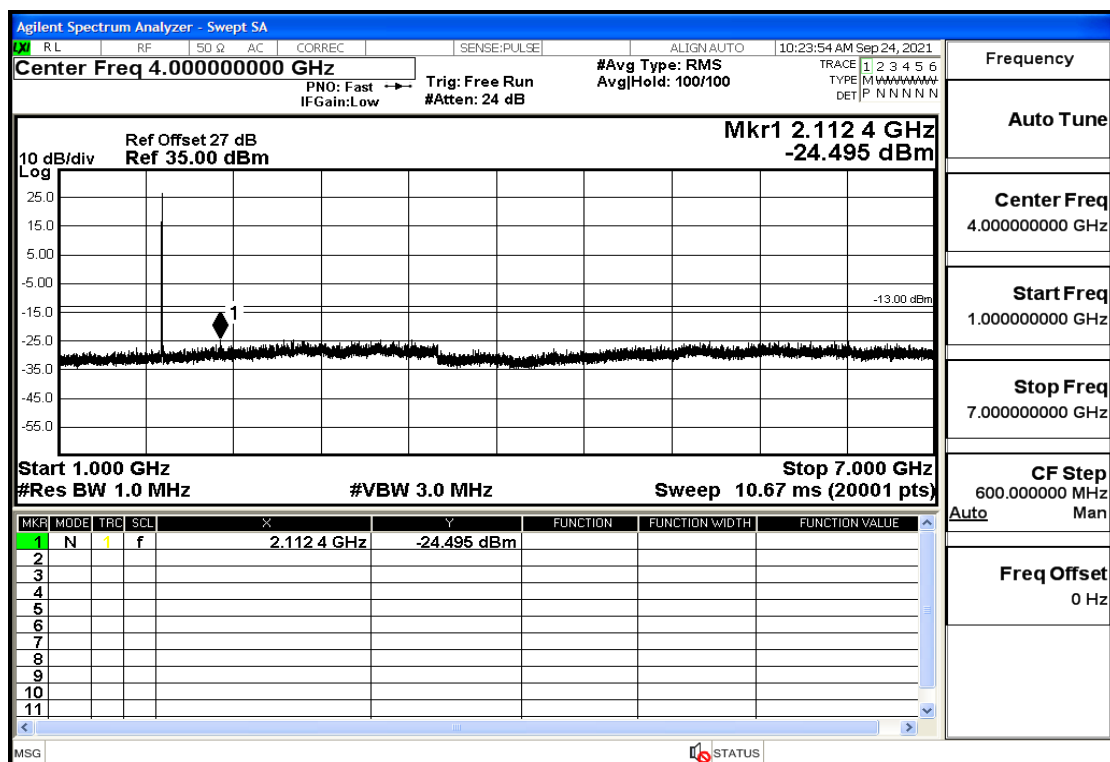
OB4-3-1711.5-QPSK-15#0@13.6GHz-20GHz@Pass



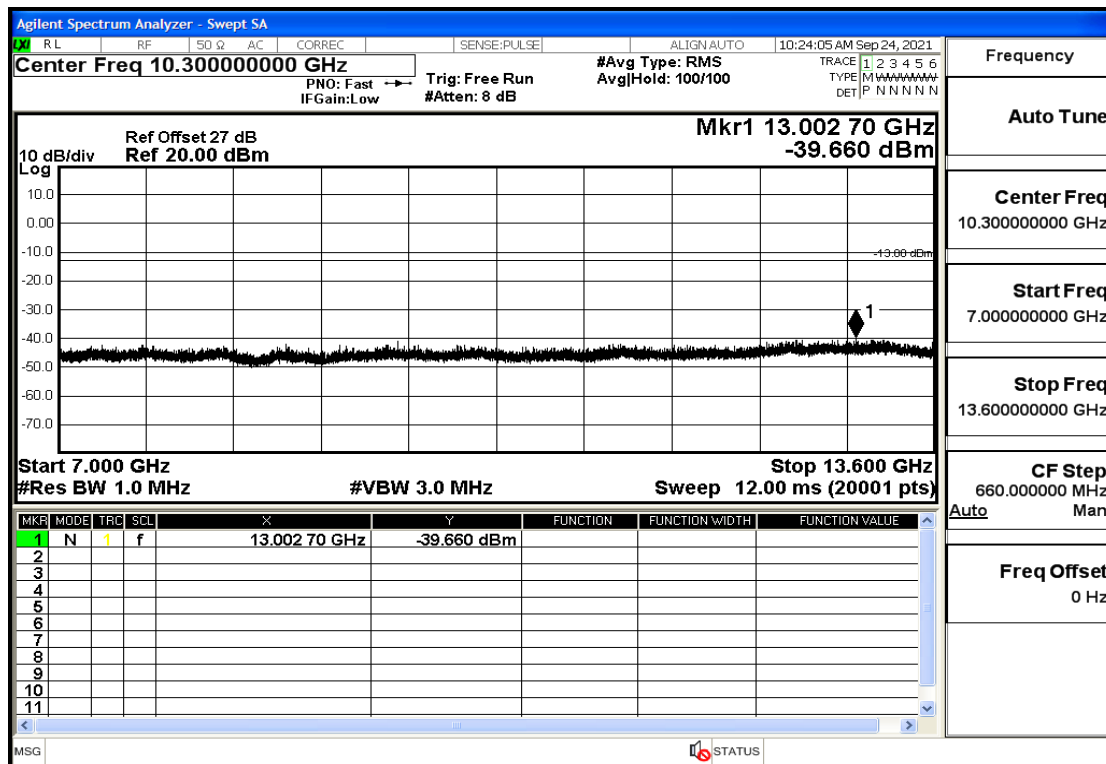
OB4-3-1711.5-QPSK-1#LOW@30mHz-1GHz@Pass



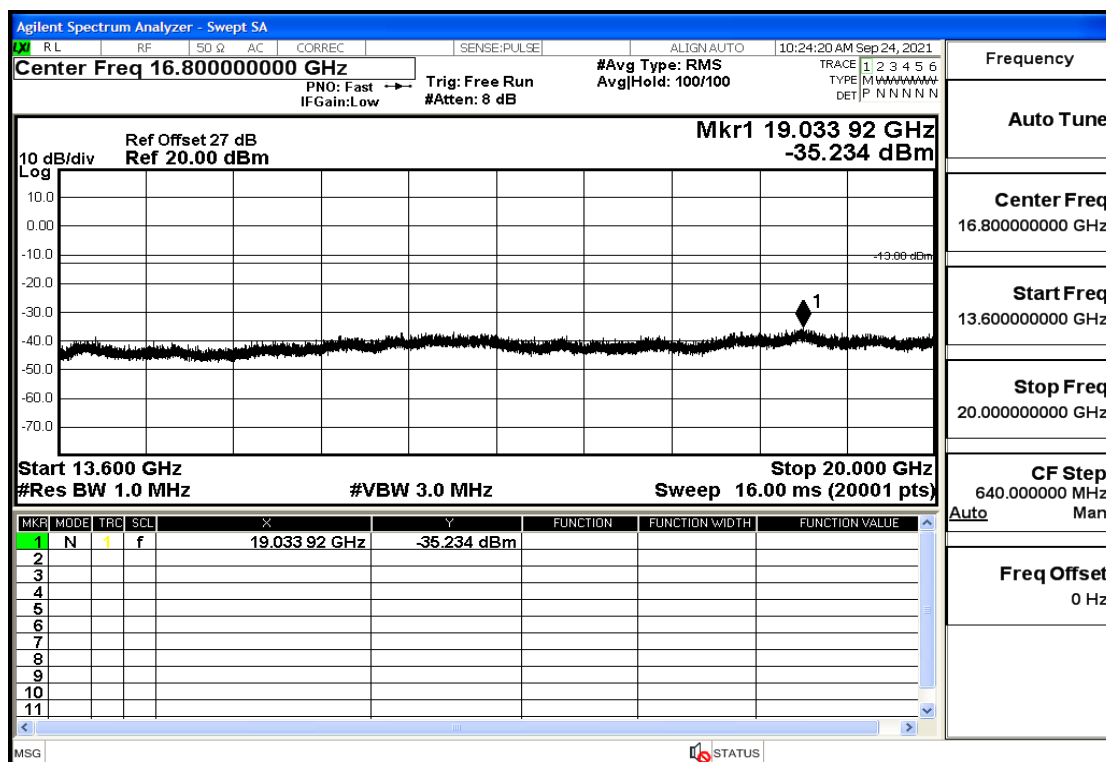
OB4-3-1711.5-QPSK-1#LOW@1GHz-7GHz@Pass



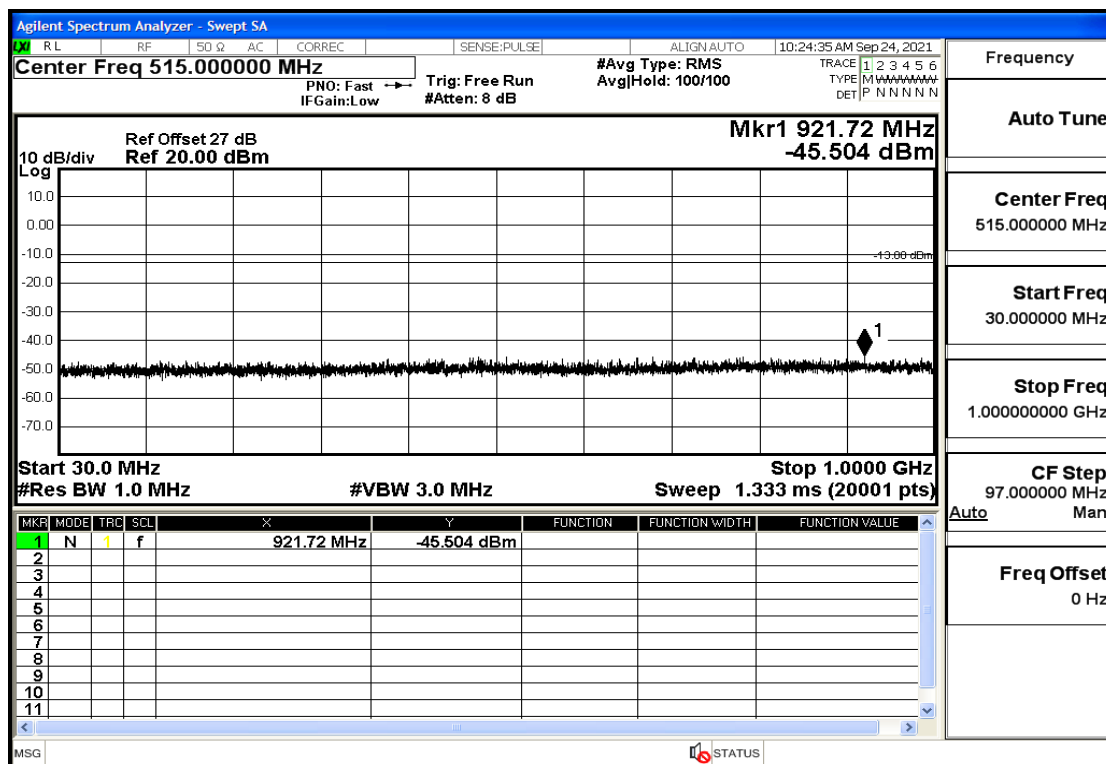
OB4-3-1711.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



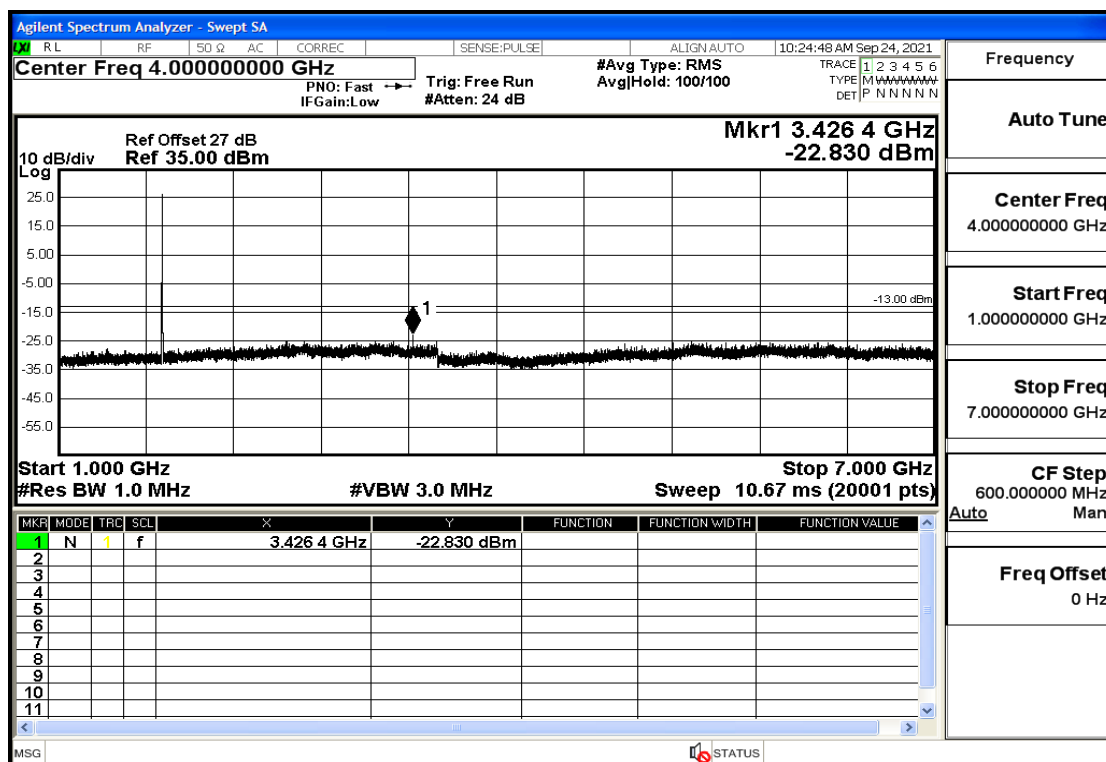
OB4-3-1711.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



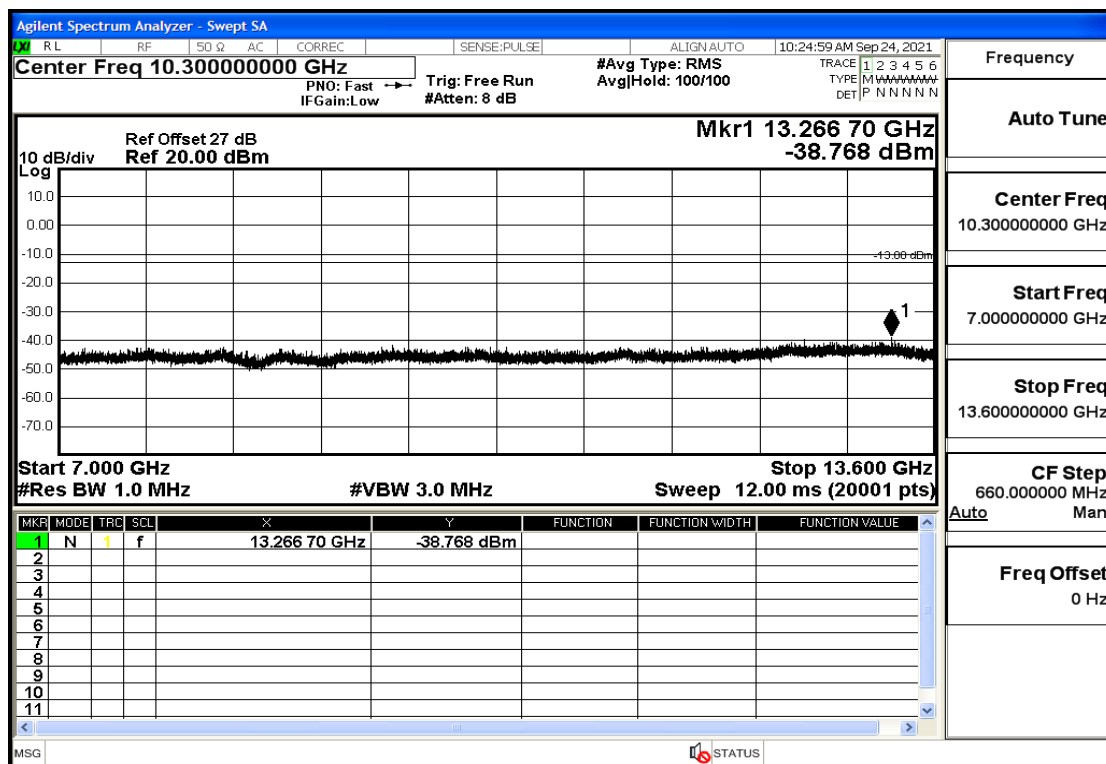
OB4-3-1711.5-QPSK-1#HIGH@30mHz-1GHz@Pass



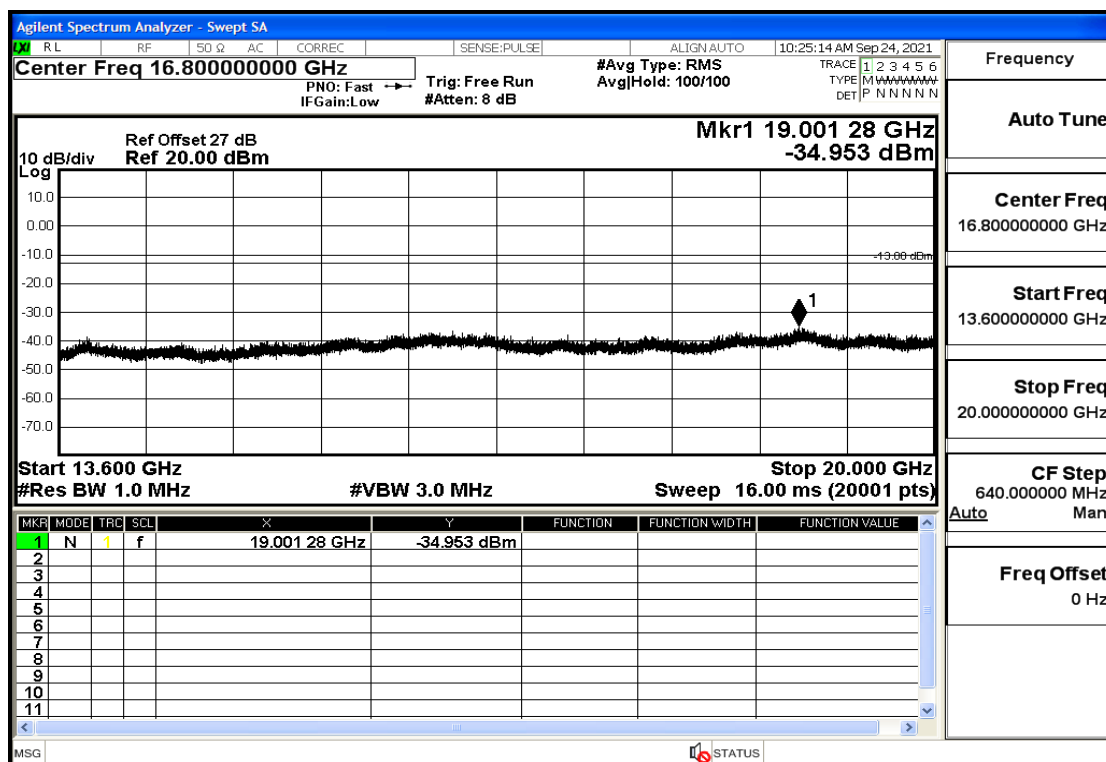
OB4-3-1711.5-QPSK-1#HIGH@1GHz-7GHz@Pass



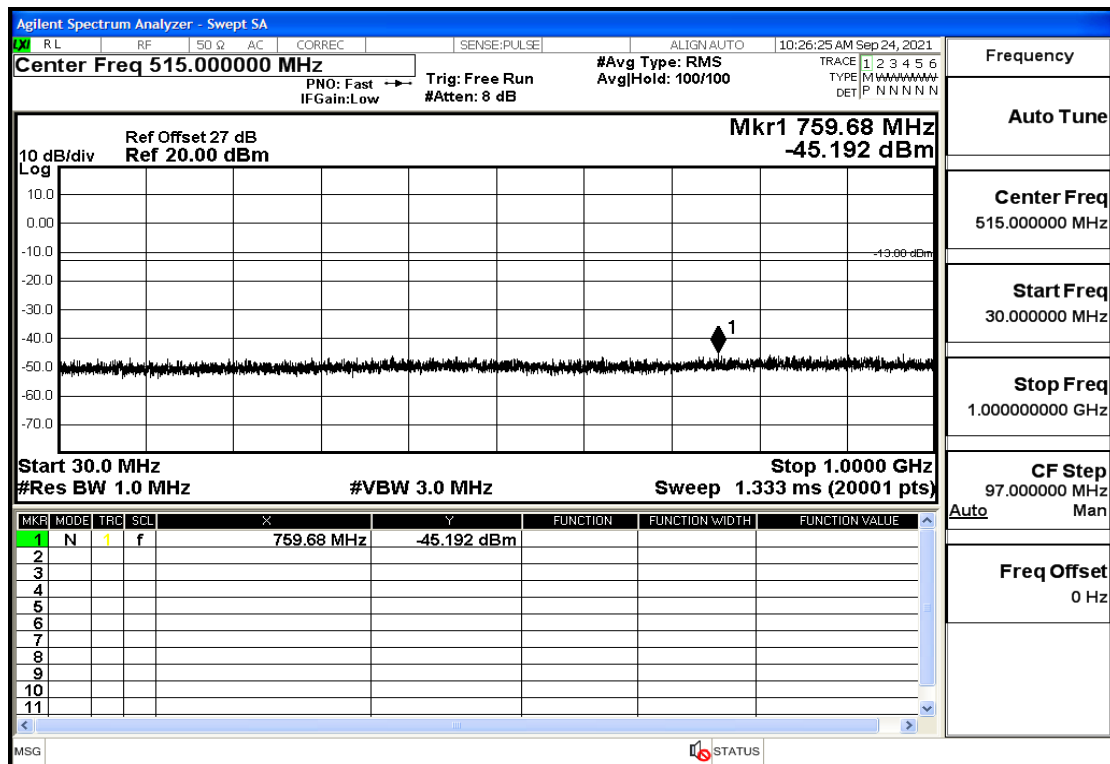
OB4-3-1711.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



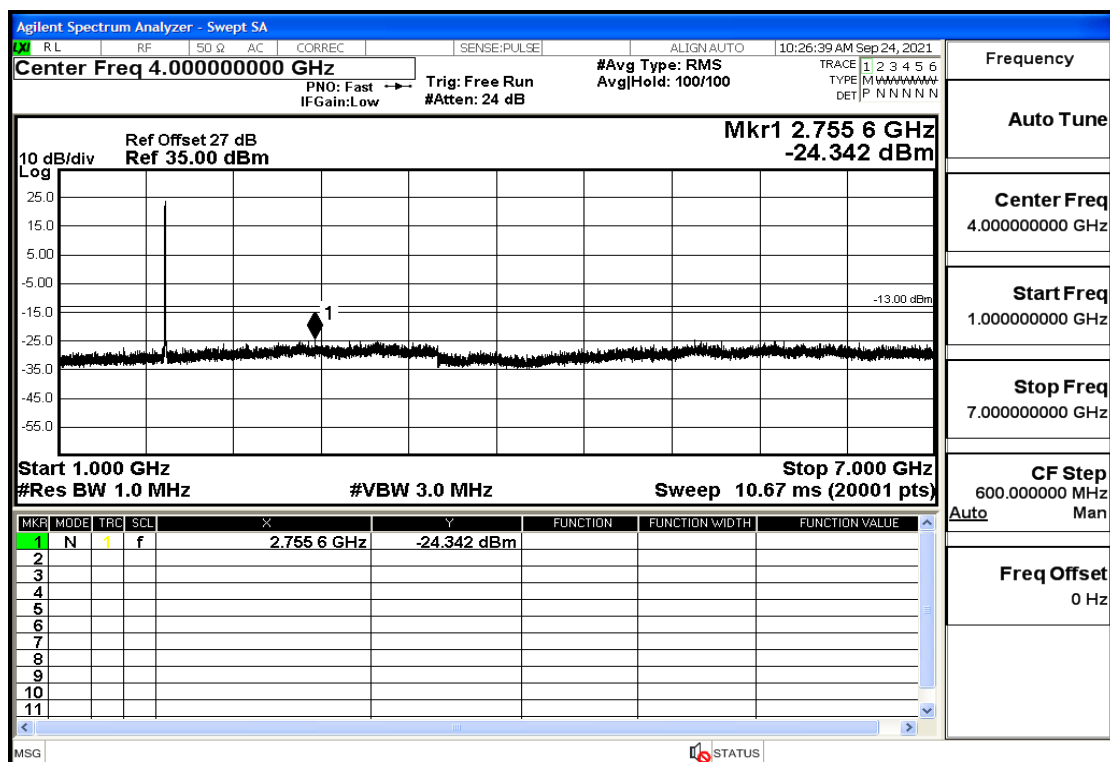
OB4-3-1711.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



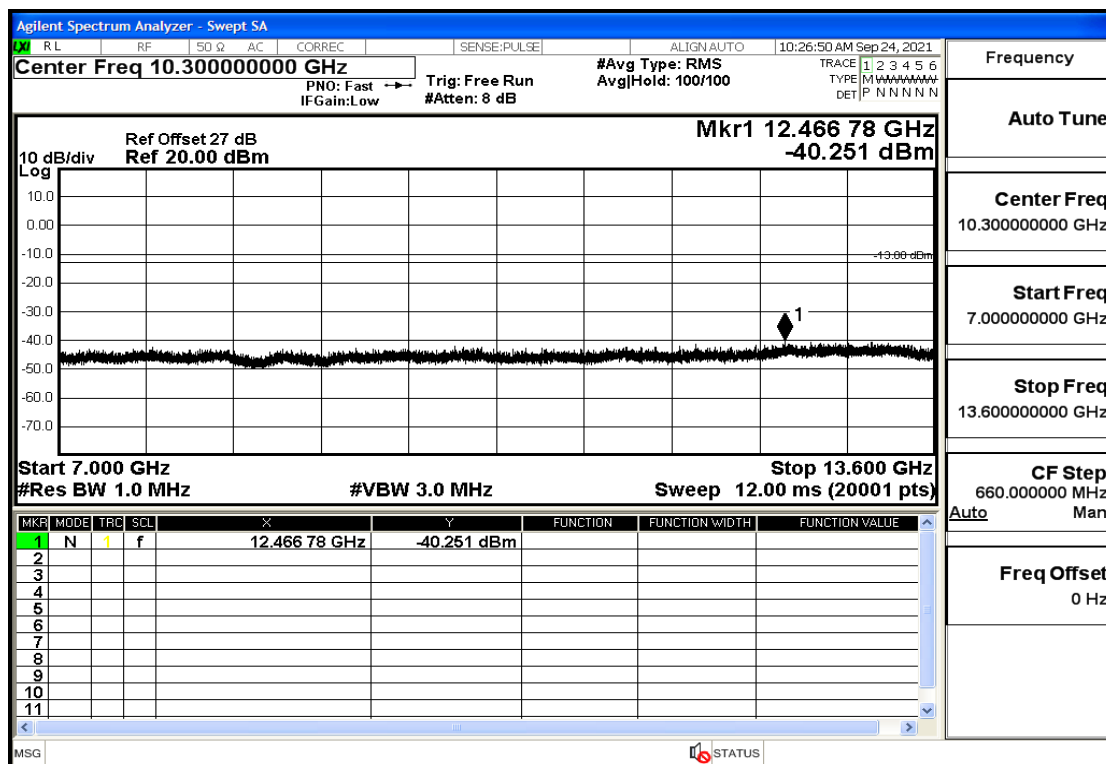
OB4-3-1732.5-QPSK-15#0@30mHz-1GHz@Pass



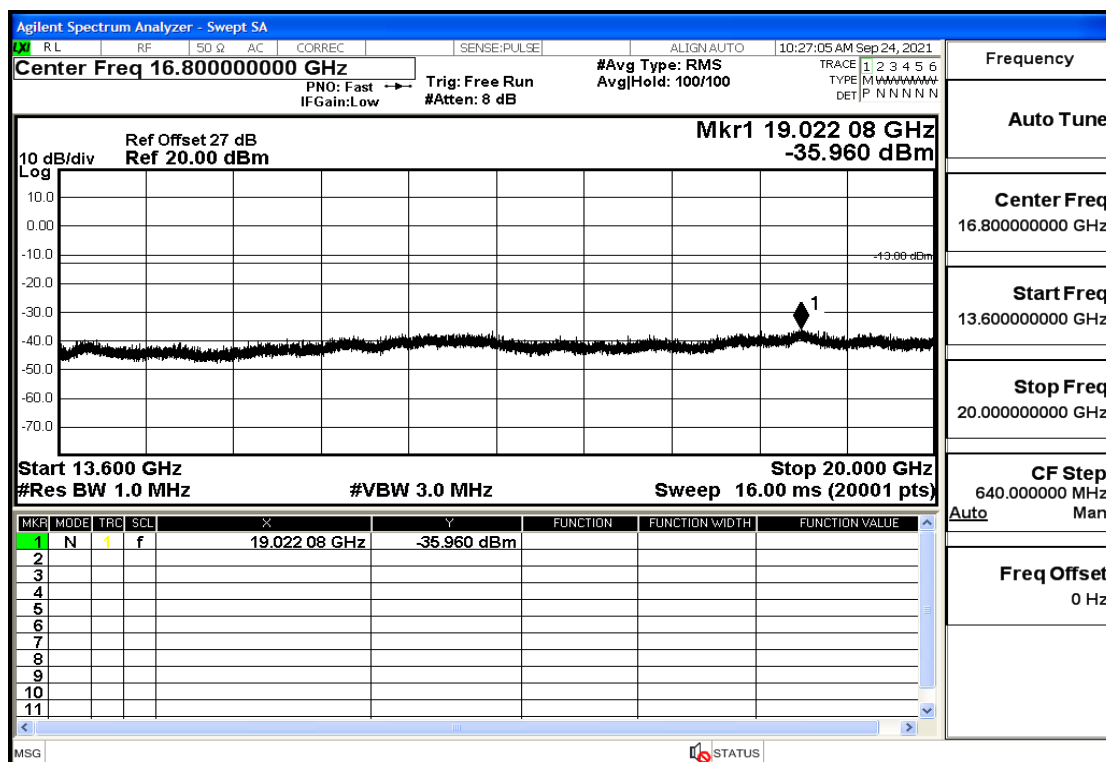
OB4-3-1732.5-QPSK-15#0@1GHz-7GHz@Pass



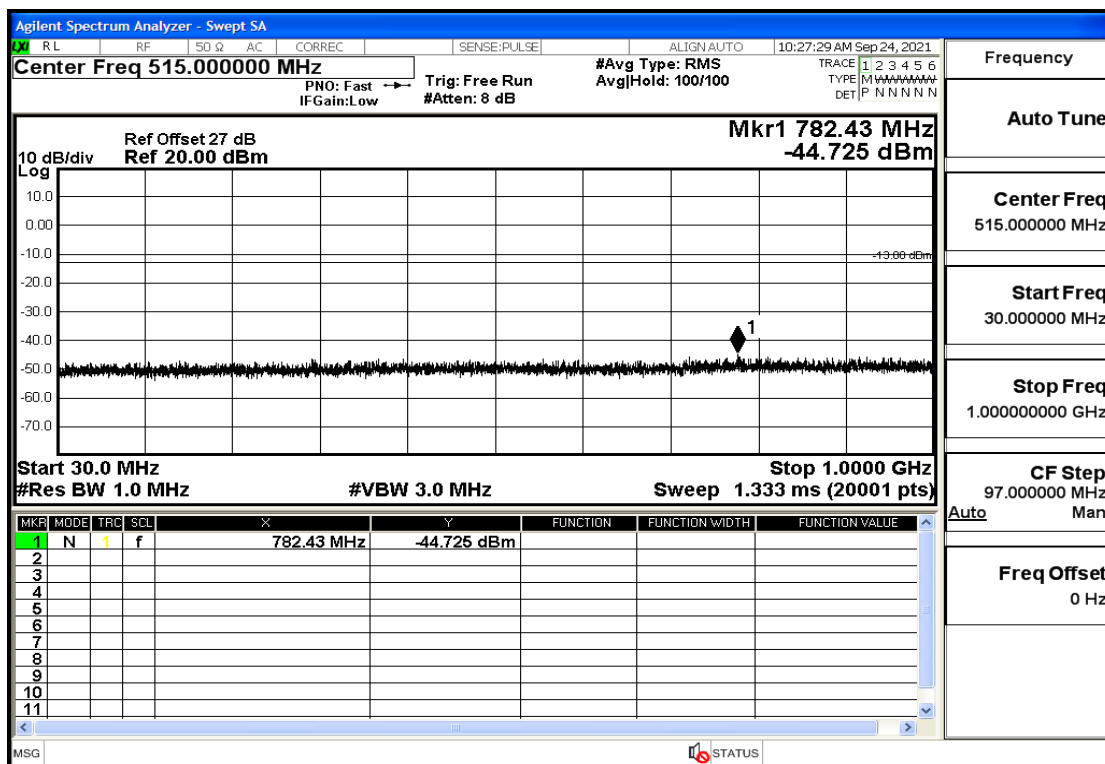
OB4-3-1732.5-QPSK-15#0@7GHz-13.6GHz@Pass



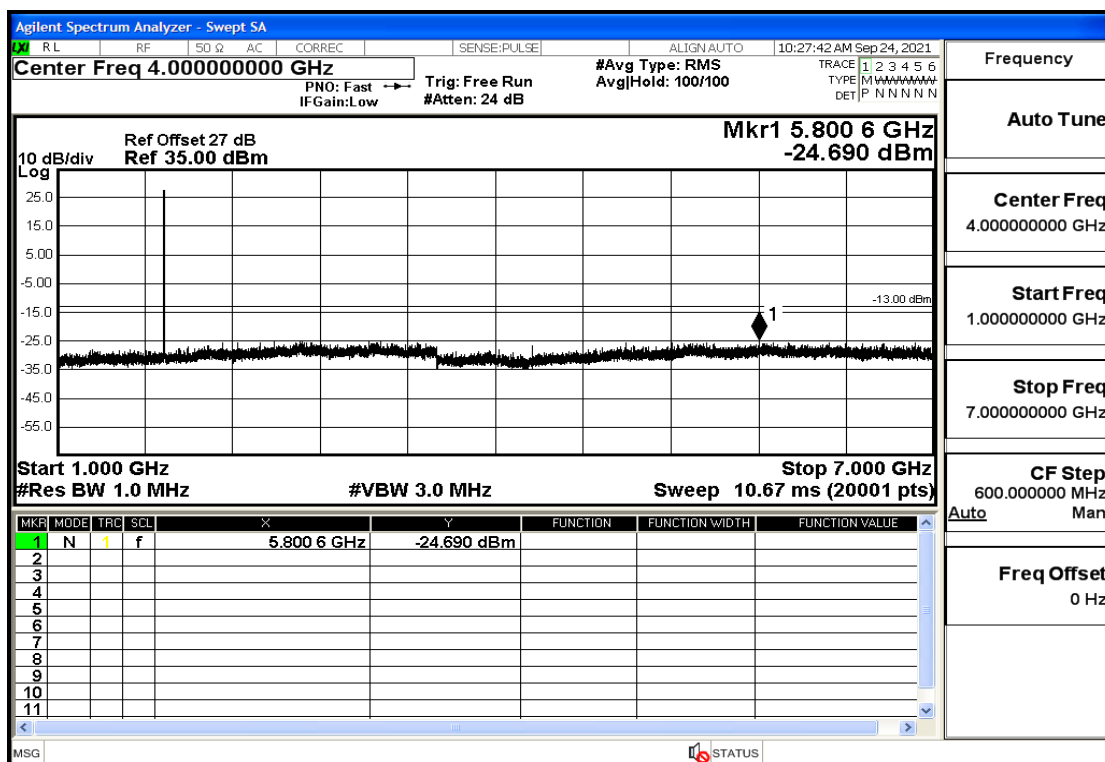
OB4-3-1732.5-QPSK-15#0@13.6GHz-20GHz@Pass



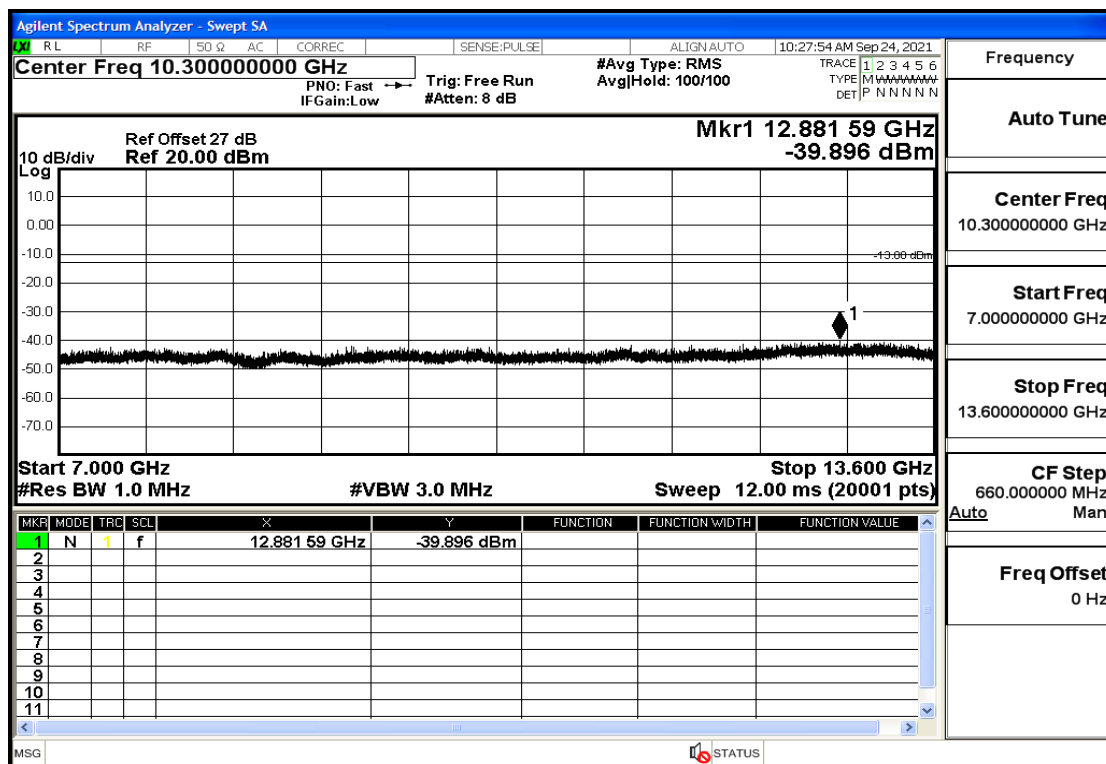
OB4-3-1732.5-QPSK-1#LOW@30mHz-1GHz@Pass



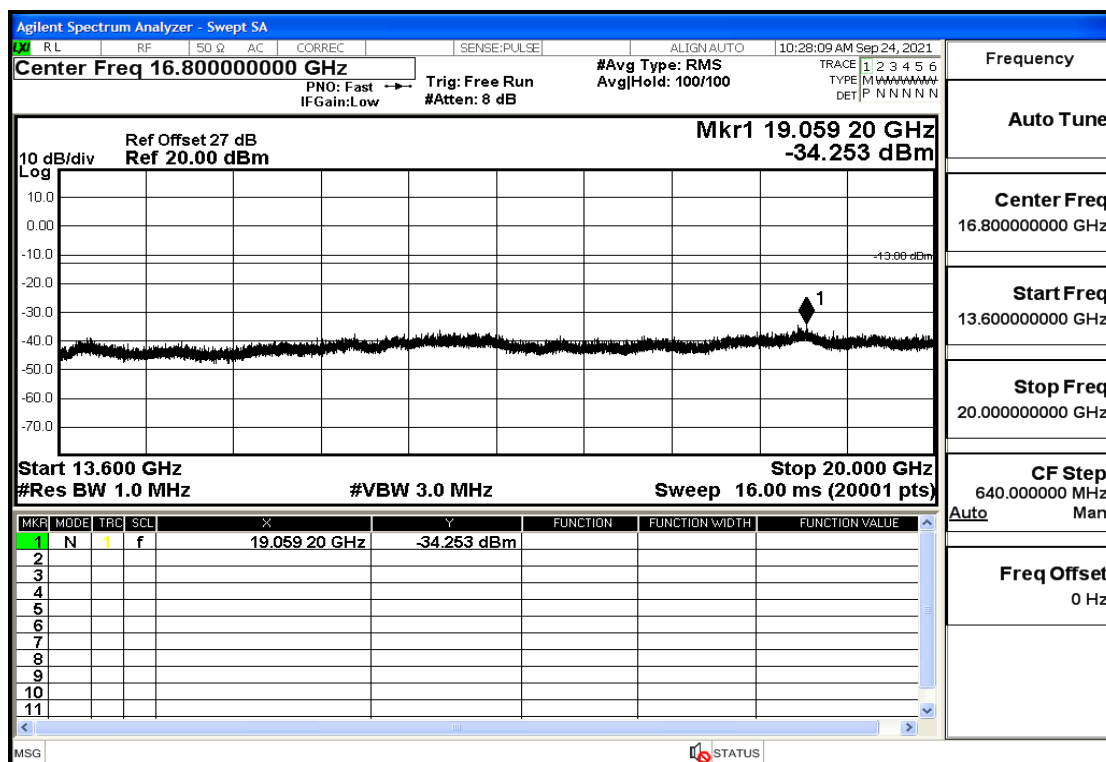
OB4-3-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



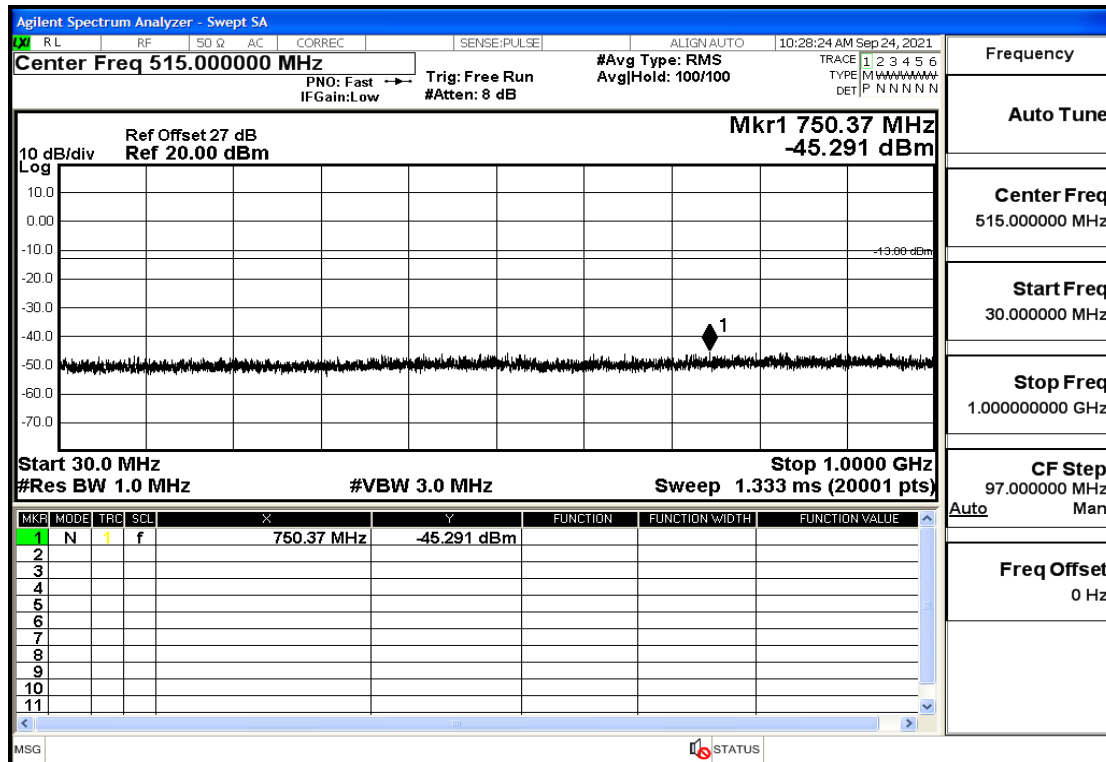
OB4-3-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



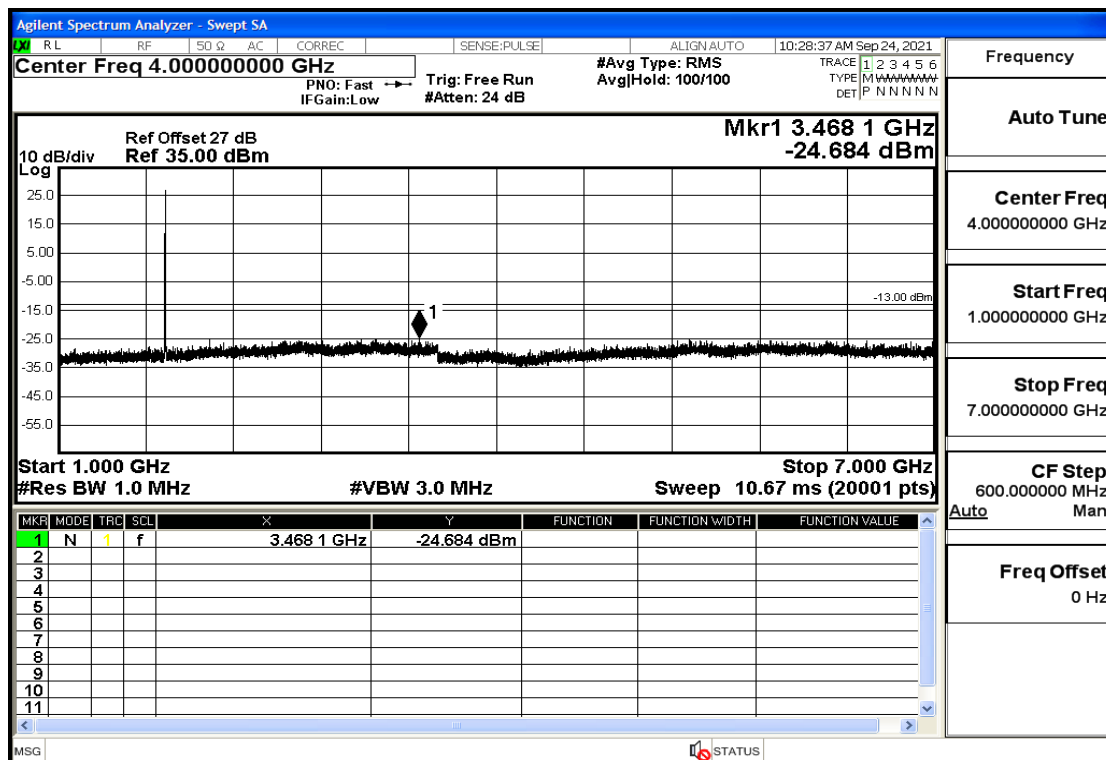
OB4-3-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



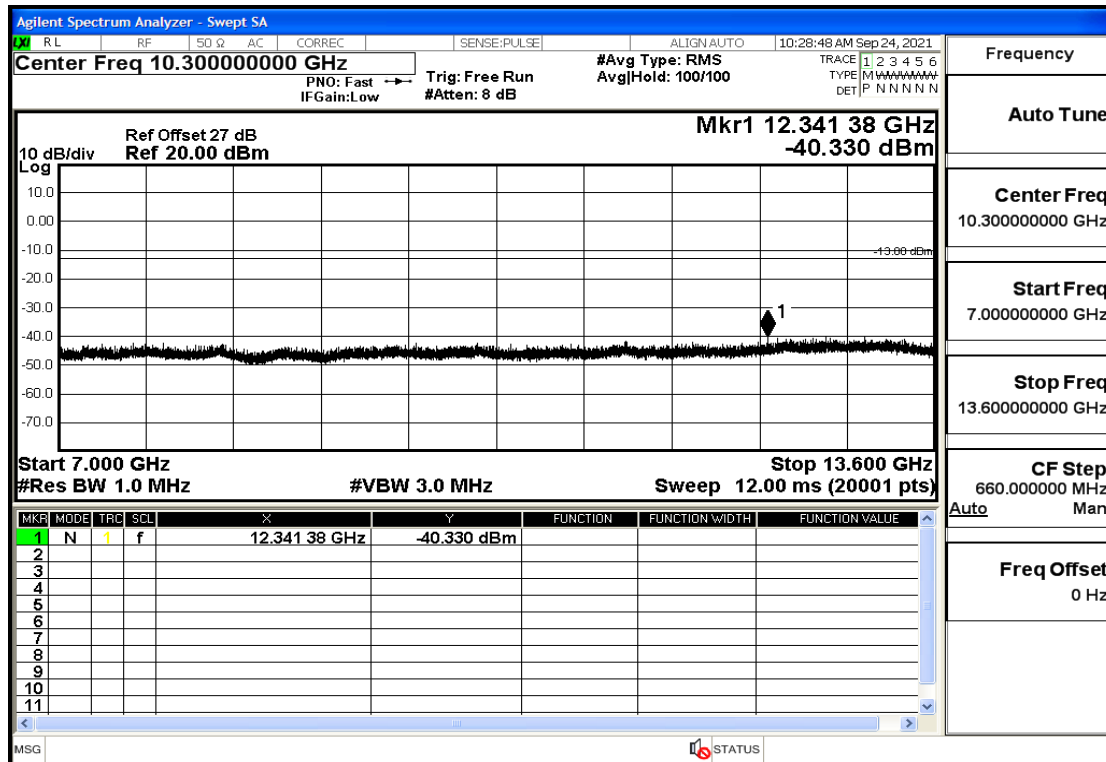
OB4-3-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



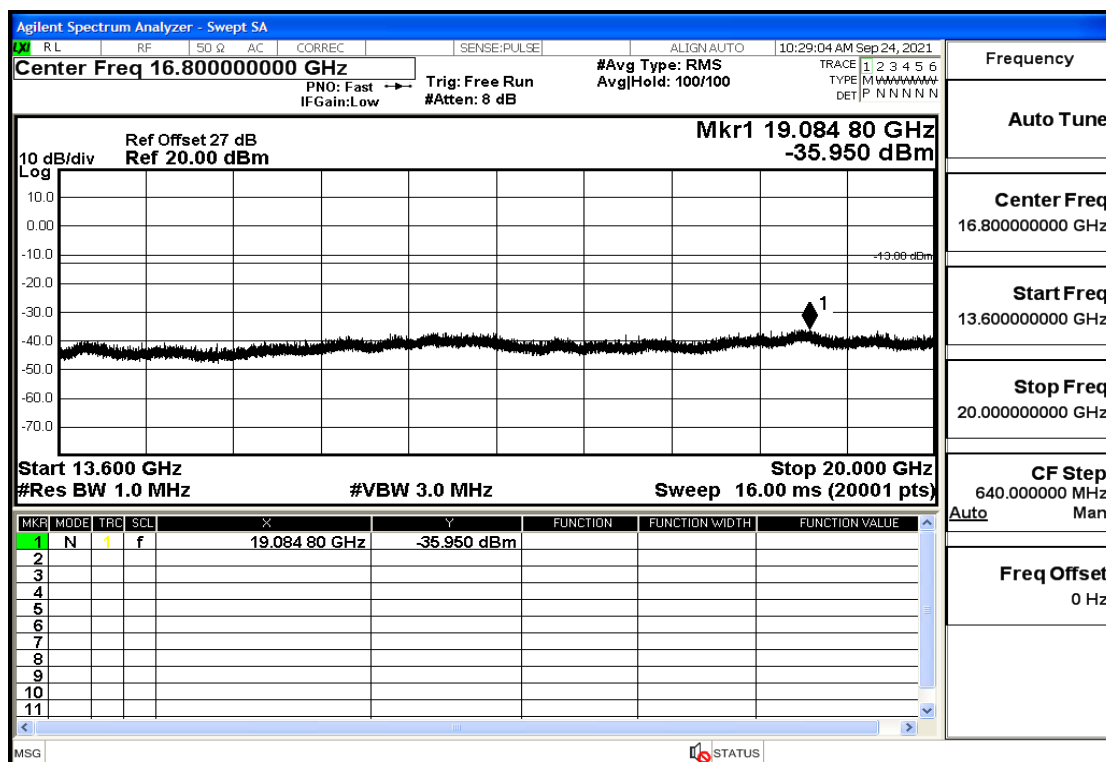
OB4-3-1732.5-QPSK-1#HIGH@1GHz-7GHz@Pass



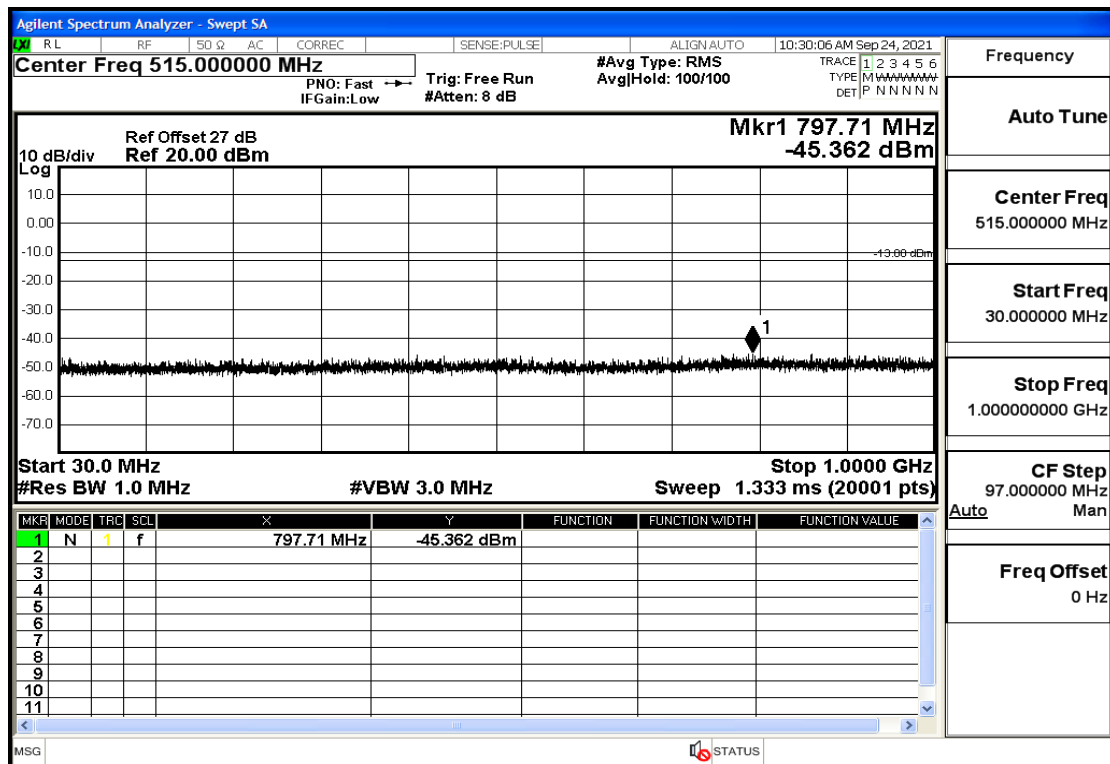
OB4-3-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



OB4-3-1732.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



OB4-3-1753.5-QPSK-15#0@30mHz-1GHz@Pass



OB4-3-1753.5-QPSK-15#0@1GHz-7GHz@Pass

