

N25-5M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.366 67 GHz -34.989 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.366 67 GHz			-34.99 dBm
2							
3							
4							
5							
6							

May 20, 2024 11:20:31 AM

N25-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.0000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

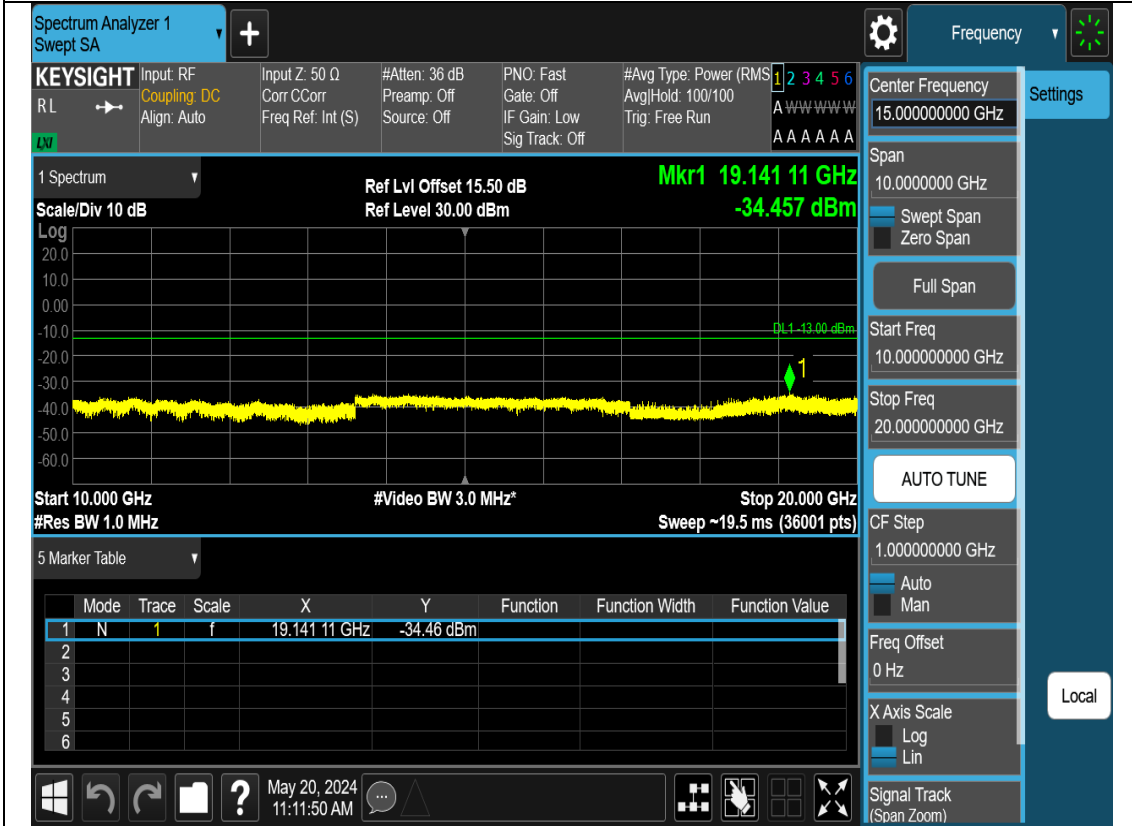
Mkr2 3.879 2 GHz -34.792 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

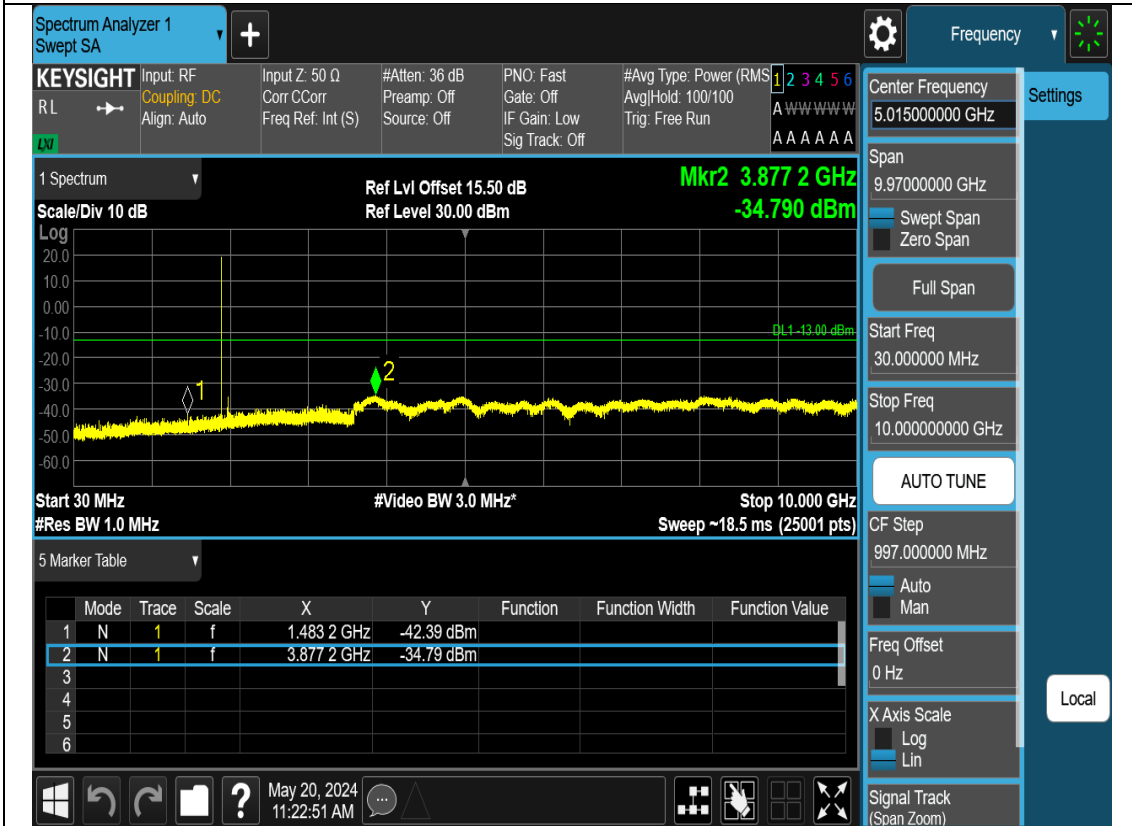
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.658 3 GHz			-42.67 dBm
2	N	1	f	3.879 2 GHz			-34.79 dBm
3							
4							
5							
6							

May 20, 2024 11:11:14 AM

N25-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N25-5M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N25-5M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.126 94 GHz -34.883 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.126 94 GHz	-34.88 dBm		
2							
3							
4							
5							
6							

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N25-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 8.089 3 GHz -34.683 dBm

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.622 0 GHz	-42.78 dBm		
2	N	1	f	8.089 3 GHz	-34.68 dBm		
3							
4							
5							
6							

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N25-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A www www www A A A A A A

Center Frequency 15.000000000 GHz

Span 10.00000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.140 56 GHz -34.791 dBm

DL1 -13.00 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.140 56 GHz	-34.79 dBm		
2							
3							
4							
5							
6							

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N25-10M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A www www www A A A A A A

Center Frequency 5.015000000 GHz

Span 9.970000000 GHz

Start Freq 30.000000 MHz

Stop Freq 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 1.932 7 GHz -33.484 dBm

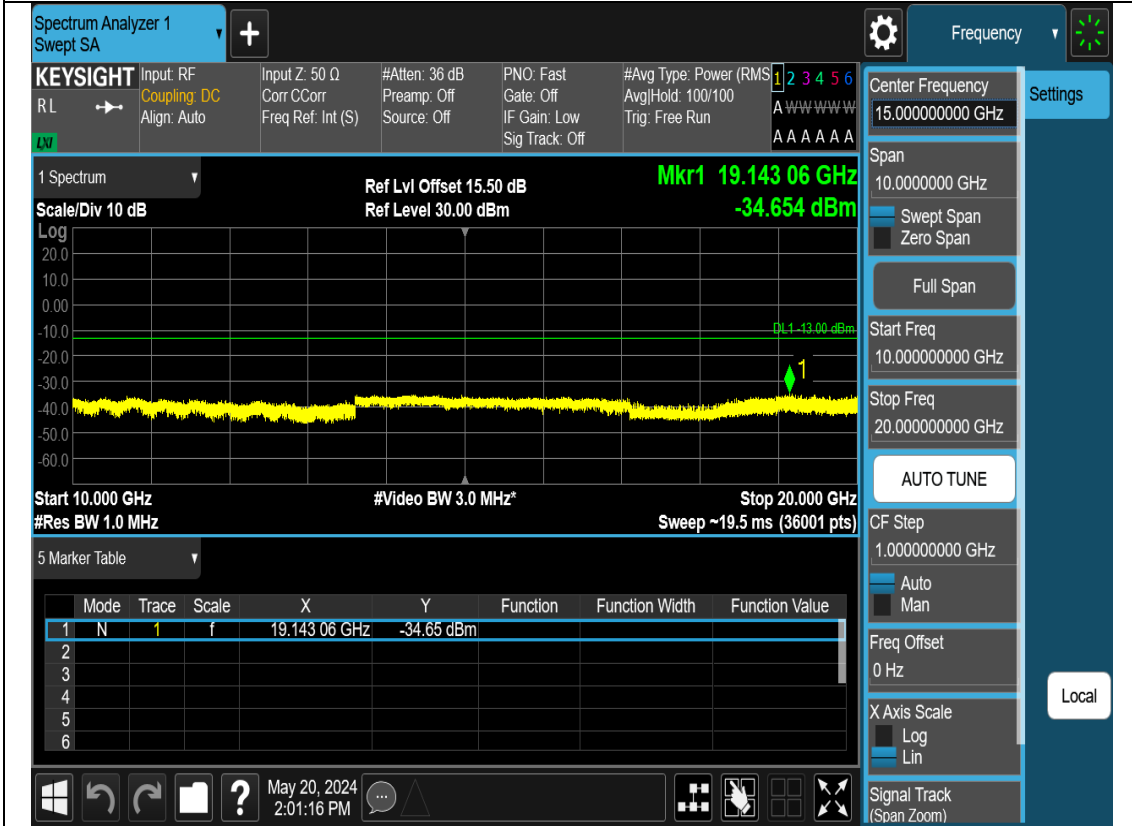
DL1 -13.00 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

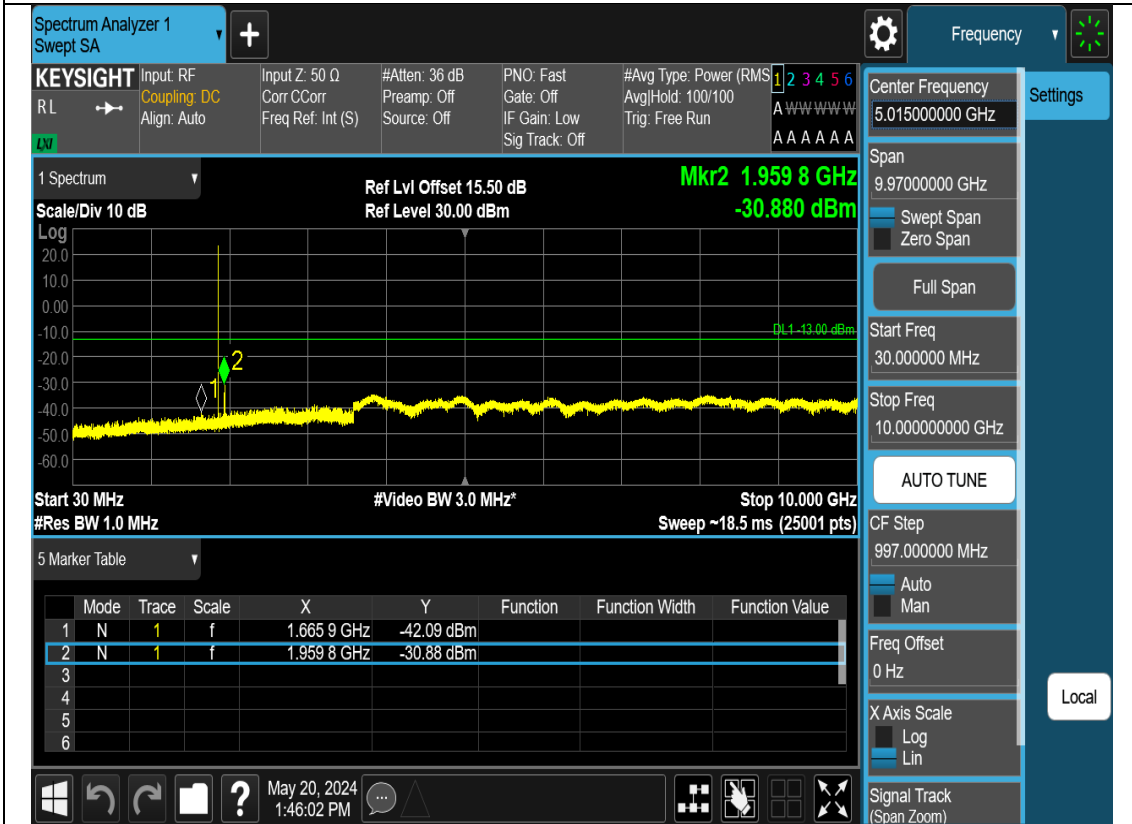
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.815 8 GHz	-42.16 dBm		
2	N	1	f	1.932 7 GHz	-33.48 dBm		
3							
4							
5							
6							

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N25-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz



N25-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N25-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S)

#Atten: 36 dB Preamp: Off Source: Off

PNO: Fast Gate: Off IF Gain: Low Sig Track: Off

#Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run

Center Frequency 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr1 19.163 61 GHz -34.827 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.163 61 GHz	-34.83 dBm		
2							
3							
4							
5							
6							

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N25-10M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S)

#Atten: 36 dB Preamp: Off Source: Off

PNO: Fast Gate: Off IF Gain: Low Sig Track: Off

#Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run

Center Frequency 5.015000000 GHz

Span 9.970000000 GHz

Start Freq 30.000000 MHz

Stop Freq 10.000000000 GHz

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.960 2 GHz -32.840 dBm

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.815 0 GHz	-42.70 dBm		
2	N	1	f	1.960 2 GHz	-32.84 dBm		
3							
4							
5							
6							

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N25-10M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr1 13.622 50 GHz -35.027 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	13.622 50 GHz			-35.03 dBm
2							
3							
4							
5							
6							

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N25-10M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.986 9 GHz -31.793 dBm

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

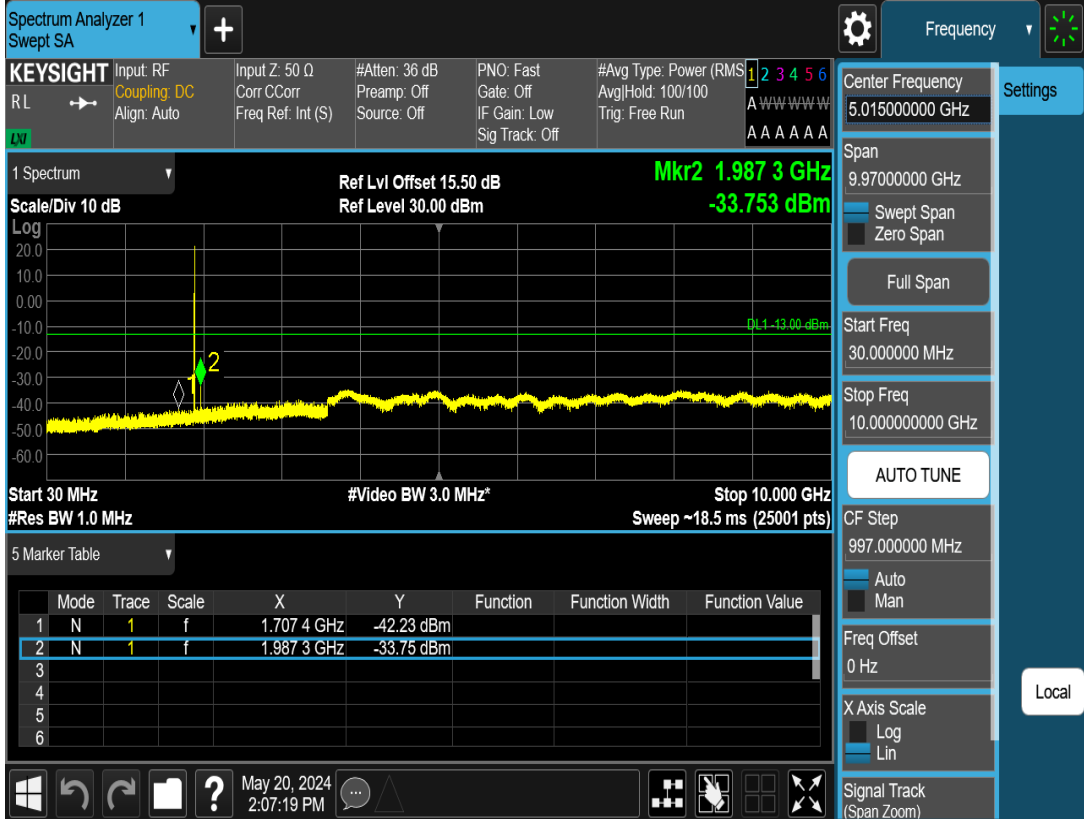
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.575 7 GHz			-42.29 dBm
2	N	1	f	1.986 9 GHz			-31.79 dBm
3							
4							
5							
6							

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N25-10M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N25-10M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N25-10M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A www www www A A A A A A

Center Frequency 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 14.312 78 GHz -34.975 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	14.312 78 GHz			-34.97 dBm
2							
3							
4							
5							
6							

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N25-15M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A www www www A A A A A A

Center Frequency 5.015000000 GHz

Span 9.970000000 GHz

Start Freq 30.000000 MHz

Stop Freq 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 8.097 3 GHz -34.595 dBm

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.666 3 GHz			-41.80 dBm
2	N	1	f	8.097 3 GHz			-34.59 dBm
3							
4							
5							
6							

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N25-15M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

AUTO TUNE

CF Step 1.000000000 GHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr1 19.035 28 GHz -34.776 dBm

DL1 -13.00 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.035 28 GHz			-34.78 dBm
2							
3							
4							
5							
6							

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N25-15M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency 5.015000000 GHz

Span 9.970000000 GHz

Start Freq 30.0000000 MHz

Stop Freq 10.000000000 GHz

AUTO TUNE

CF Step 997.0000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.932 7 GHz -32.129 dBm

DL1 -13.00 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.151 0 GHz			-42.50 dBm
2	N	1	f	1.932 7 GHz			-32.13 dBm
3							
4							
5							
6							

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N25-15M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr1 19.221 67 GHz -34.548 dBm

Start 10.000 GHz Stop 20.000 GHz

#Res BW 1.0 MHz #Video BW 3.0 MHz* Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.221 67 GHz			-34.55 dBm
2							
3							
4							
5							
6							

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N25-15M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.957 8 GHz -34.618 dBm

Start 30 MHz Stop 10.000 GHz

#Res BW 1.0 MHz #Video BW 3.0 MHz* Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.802 3 GHz			-42.17 dBm
2	N	1	f	1.957 8 GHz			-34.62 dBm
3							
4							
5							
6							

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N25-15M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.000000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.101 94 GHz -34.801 dBm

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.101 94 GHz	-34.80 dBm		
2							
3							
4							
5							
6							

May 20, 2024 2:16:11 PM

N25-15M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 1.957 0 GHz -32.257 dBm

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.824 2 GHz	-42.35 dBm		
2	N	1	f	1.957 0 GHz	-32.26 dBm		
3							
4							
5							
6							

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N25-15M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency 15.000000000 GHz

Span 10.0000000 GHz

Start Freq 10.000000000 GHz

Stop Freq 20.000000000 GHz

AUTO TUNE

CF Step 1.000000000 GHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr1 13.623 06 GHz -34.976 dBm

Scale/Div 10 dB

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	13.623 06 GHz	-34.98 dBm		
2							
3							
4							
5							
6							

May 20, 2024 2:30:05 PM

N25-15M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency 5.015000000 GHz

Span 9.970000000 GHz

Start Freq 30.000000 MHz

Stop Freq 10.000000000 GHz

AUTO TUNE

CF Step 997.0000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.982 5 GHz -32.579 dBm

Scale/Div 10 dB

Log

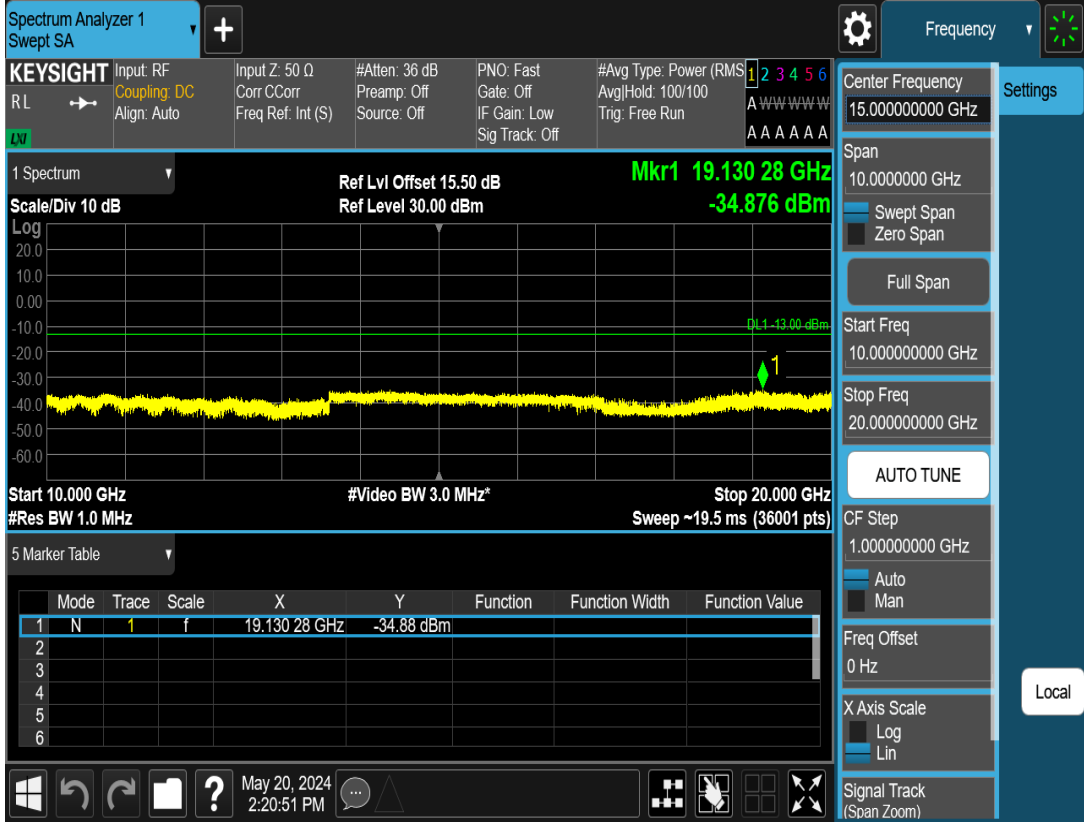
Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

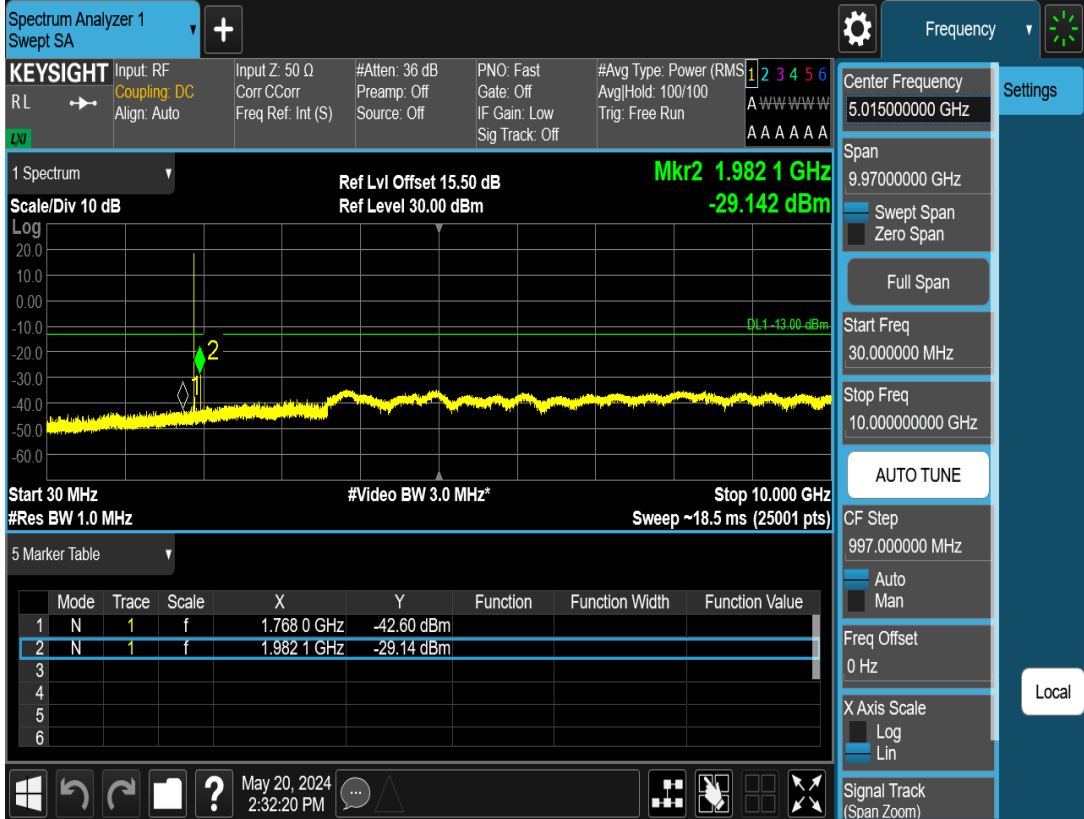
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.807 1 GHz	-41.89 dBm		
2	N	1	f	1.982 5 GHz	-32.58 dBm		
3							
4							
5							
6							

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N25-15M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N25-15M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N25-15M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A A A A A A

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 13.601 39 GHz -34.778 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	13.601 39 GHz	-34.78 dBm		
2							
3							
4							
5							
6							

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N25-20M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 100/100 Trig: Free Run A A A A A A

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.0000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 3.857 7 GHz -34.260 dBm

Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.657 5 GHz	-42.80 dBm		
2	N	1	f	3.857 7 GHz	-34.26 dBm		
3							
4							
5							
6							

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N25-20M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 19.955 83 GHz -34.306 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.955 83 GHz			-34.31 dBm
2							
3							
4							
5							
6							

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N25-20M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvgHold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.0000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 3.874 8 GHz -34.578 dBm

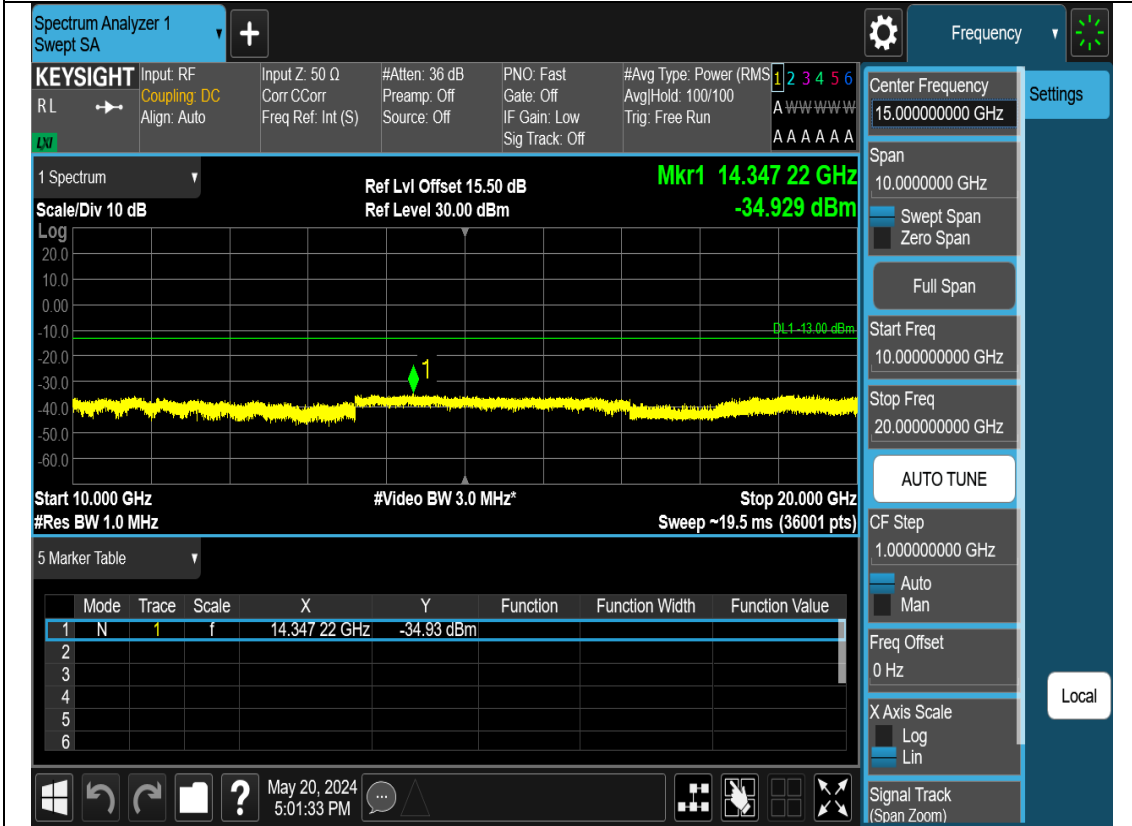
Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

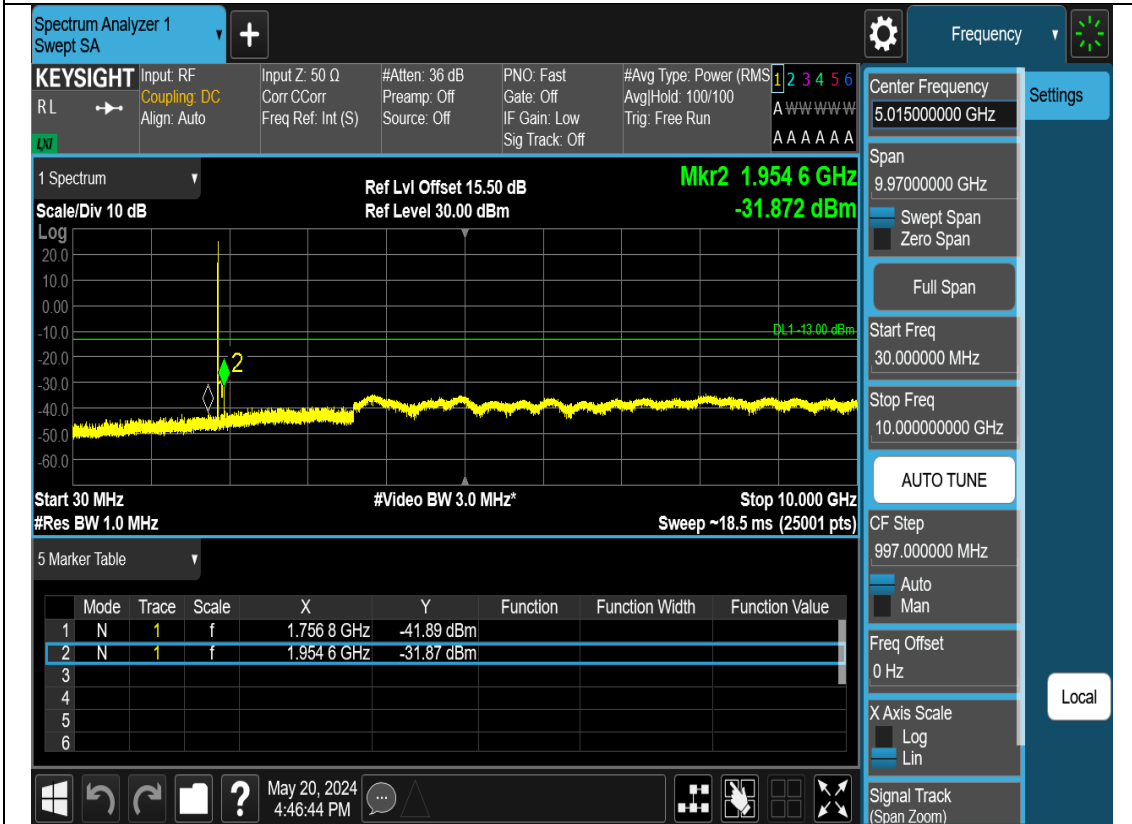
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.651 9 GHz			-42.07 dBm
2	N	1	f	3.874 8 GHz			-34.58 dBm
3							
4							
5							
6							

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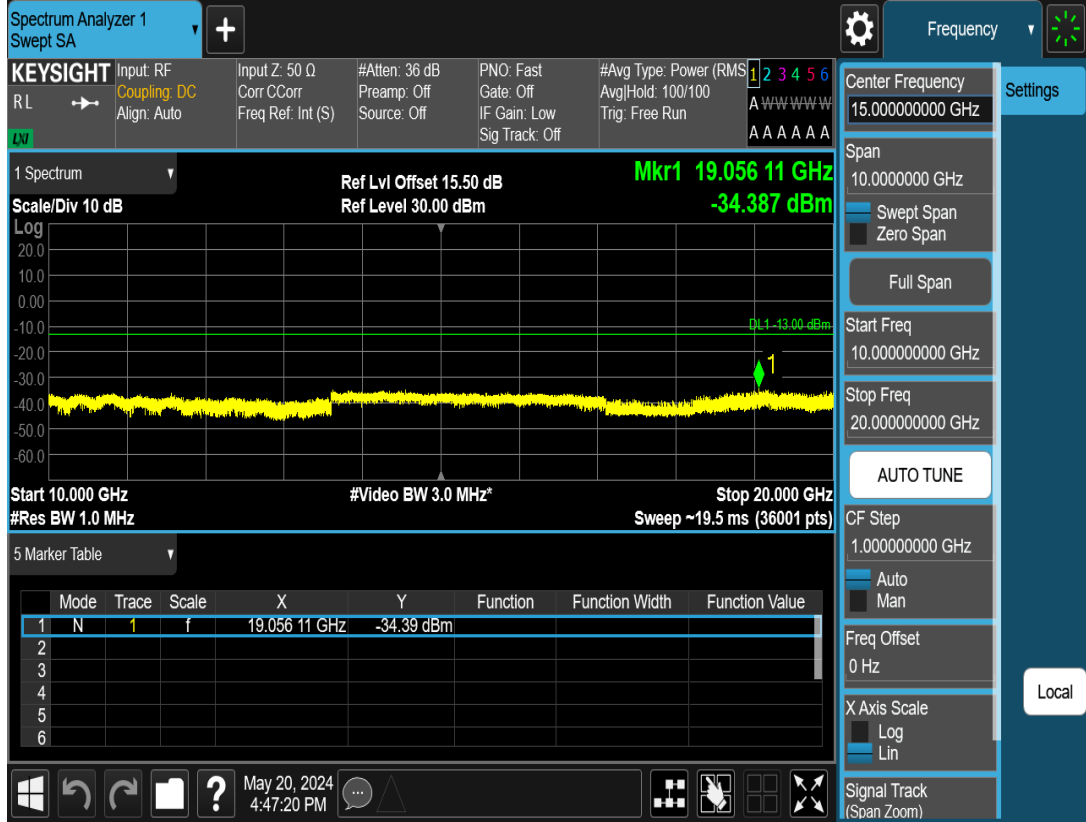
N25-20M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz



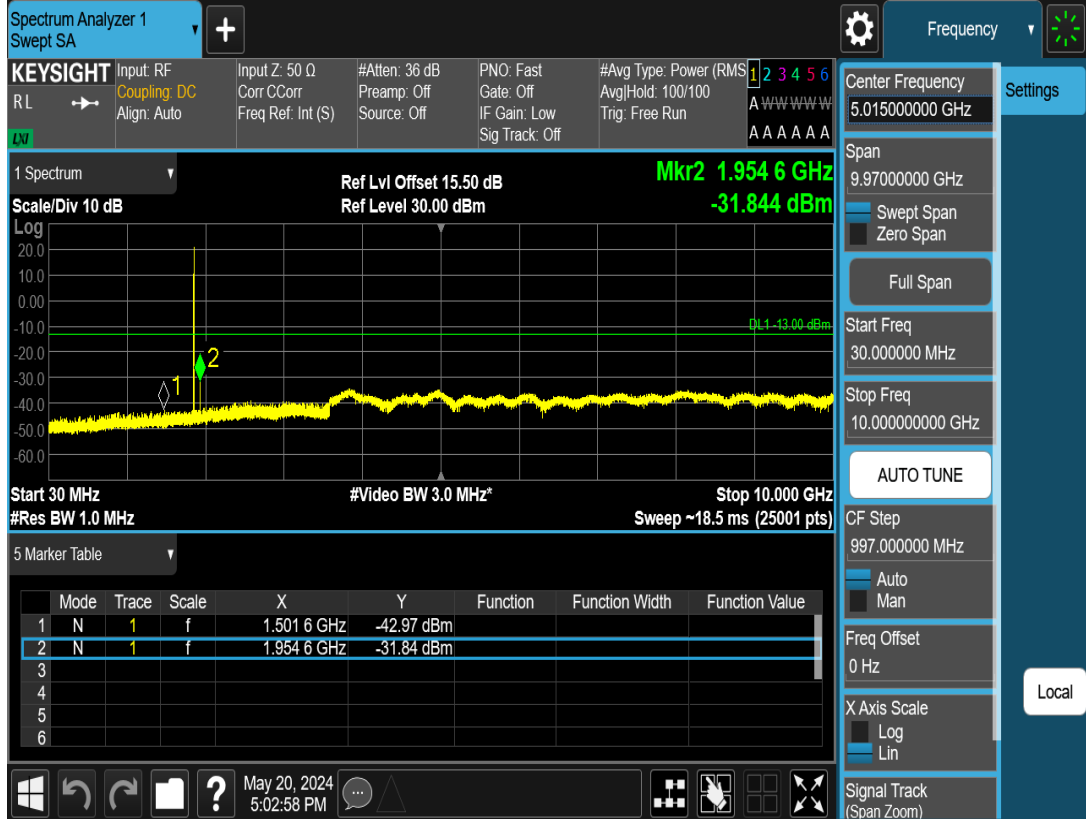
N25-20M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N25-20M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N25-20M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N25-20M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 15.000000000 GHz

Span: 10.0000000 GHz

Start Freq: 10.000000000 GHz

Stop Freq: 20.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr1 14.307 50 GHz -34.740 dBm

Log

Start 10.000 GHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 20.000 GHz Sweep ~19.5 ms (36001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	14.307 50 GHz			-34.74 dBm
2							
3							
4							
5							
6							

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N25-20M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Auto

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 100/100 Trig: Free Run

Center Frequency: 5.015000000 GHz

Span: 9.970000000 GHz

Start Freq: 30.0000000 MHz

Stop Freq: 10.000000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB

Ref Level 30.00 dBm

Mkr2 1.977 7 GHz -30.837 dBm

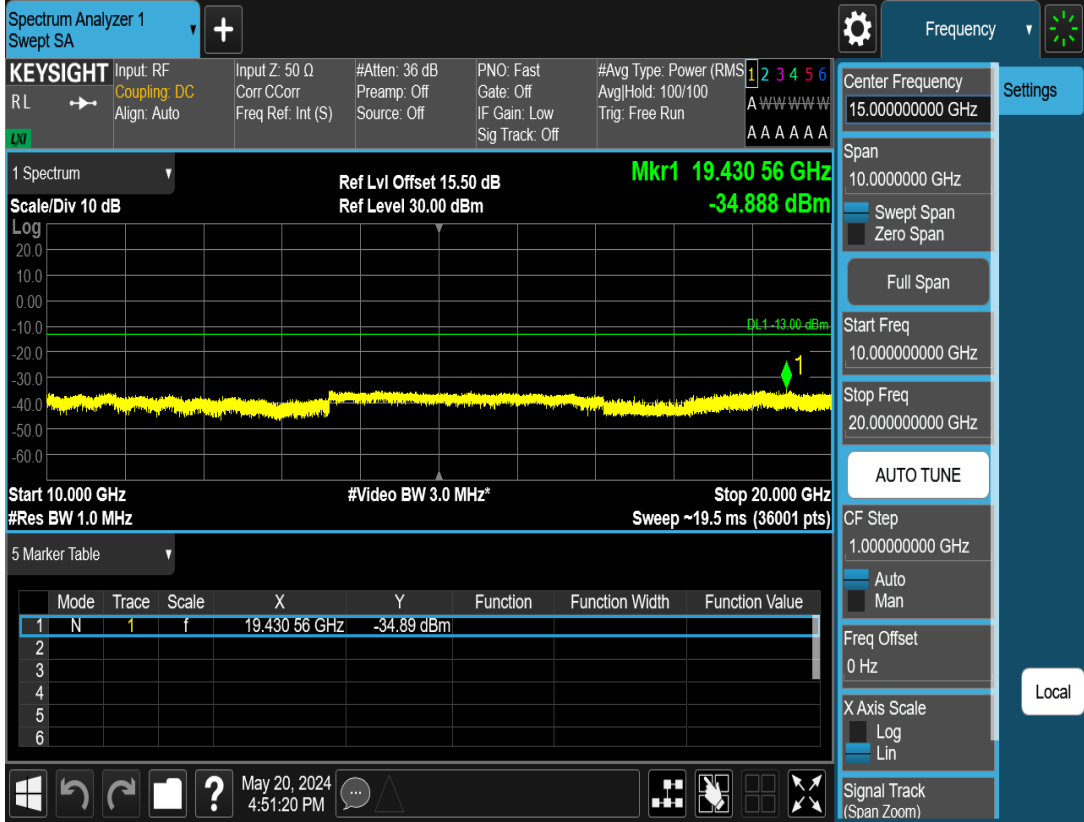
Log

Start 30 MHz #Res BW 1.0 MHz #Video BW 3.0 MHz* Stop 10.000 GHz Sweep ~18.5 ms (25001 pts)

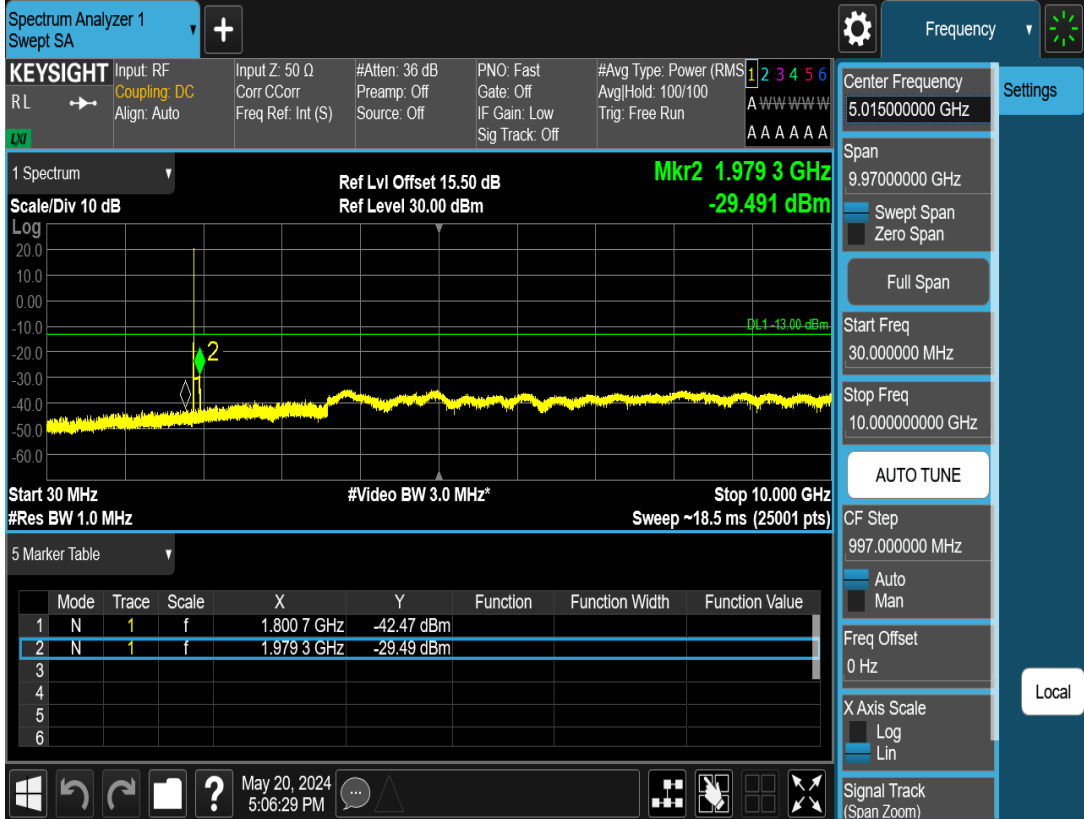
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.661 9 GHz			-42.51 dBm
2	N	1	f	1.977 7 GHz			-30.84 dBm
3							
4							
5							
6							

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N25-20M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N25-20M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N25-20M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr: C Corr
Freq Ref: Int (S)

#Atten: 36 dB
Preamp: Off
Source: Off

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Avg/Hold: 100/100
Trig: Free Run

1 2 3 4 5 6
A www www w
A A A A A A A

Frequency

Center Frequency
15.000000000 GHz

Span
10.0000000 GHz

Swept Span
Zero Span

Full Span

Start Freq
10.000000000 GHz

Stop Freq
20.000000000 GHz

AUTO TUNE

CF Step
1.000000000 GHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Span Zoom)

Settings

Local

1 Spectrum

Ref Lvl Offset 15.50 dB
Ref Level 30.00 dBm

Mkr1 19.100 00 GHz
-34.737 dBm

Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Start 10.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz
#Res BW 1.0 MHz Sweep ~19.5 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.100 00 GHz	-34.74 dBm		
2							
3							
4							
5							
6							

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5:07:06 PM