427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-E7
ISED ID	6545A-E7
Equipment Under Test	E7
Test Report Serial Number	TR9083_02
Date of Tests	27 February; 7 March; 16 April; 7 November 2024
Report Issue Date	7 November 2024

Test Personnel

Testing performed by	Evan Hartzell

Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.

NVLAP LAB CODE 600241-0

Revision History		
Revision	**Description**	**Date**
01	Original Report Release	25 June 2024
02	Added test setting to Mask measurements.	1 October 2024
03	Amended Measurement Setting for In Band Emissions	7 November 2024

1 UNII-5 Band

Table 1: Summary

Test	Frequency	Nominal	Nominal	Result
	MHz	dBm	MHz	
Emission Bandwidth 26 dB	5955.000	24.0	20.000000	PASS
RF output power	5955.000	24.0	20.000000	PASS
In-Band Emissions	5955.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5955.000	24.0	20.000000	PASS
Frequency Stability	5955.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	6195.000	24.0	20.000000	PASS
In-Band Emissions	6195.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	6195.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	6415.000	24.0	20.000000	PASS
In-Band Emissions	6415.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	6415.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5965.000	24.0	40.000000	PASS
In-Band Emissions	5965.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5965.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	6205.000	24.0	40.000000	PASS
In-Band Emissions	6205.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	6205.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	6405.000	24.0	40.000000	PASS
In-Band Emissions	6405.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	6405.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5985.000	24.0	80.000000	PASS
In-Band Emissions	5985.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5985.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	6225.000	24.0	80.000000	PASS
In-Band Emissions	6225.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	6225.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	6385.000	24.0	80.000000	PASS

Test	Frequency	Nominal	Nominal	Result
	MHz	dBm	MHz	
In-Band Emissions	6385.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	6385.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	6025.000	24.0	160.000000	PASS
In-Band Emissions	6025.000	24.0	160.000000	PASS
Occupied Channel Bandwidth 99%	6025.000	24.0	160.000000	PASS
Tx Spurious Emission	6025.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Average)	6025.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Peak)	6025.000	24.0	160.000000	PASS
Emission Bandwidth 26 dB	6185.000	24.0	160.000000	PASS
In-Band Emissions	6185.000	24.0	160.000000	PASS
Occupied Channel Bandwidth 99%	6185.000	24.0	160.000000	PASS
Tx Spurious Emission	6185.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Average)	6185.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Peak)	6185.000	24.0	160.000000	PASS
Emission Bandwidth 26 dB	6325.000	24.0	160.000000	PASS
In-Band Emissions	6325.000	24.0	160.000000	PASS
Occupied Channel Bandwidth 99%	6325.000	24.0	160.000000	PASS
Tx Spurious Emission	6325.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Average)	6325.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Peak)	6325.000	24.0	160.000000	PASS
Emission Bandwidth 26 dB	6265.000	24.0	320.000000	PASS
In-Band Emissions	6265.000	24.0	320.000000	PASS
Occupied Channel Bandwidth 99%	6265.000	24.0	320.000000	PASS
Tx Spurious Emission	6265.000	24.0	320.000000	PASS
Emissions in restricted frequency bands (Average)	6265.000	24.0	320.000000	PASS
Emissions in restricted frequency bands (Peak)	6265.000	24.0	320.000000	PASS

2 Testcases

2.1 Emission Bandwidth 26 dB (5955 MHz, 20 MHz, 24.000 dBm)

Table 2: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5955.000000	22.200000	---	320.000000	5944.350000	---	5966.550000	---	-6.2	PASS

26 dB Bandwidth

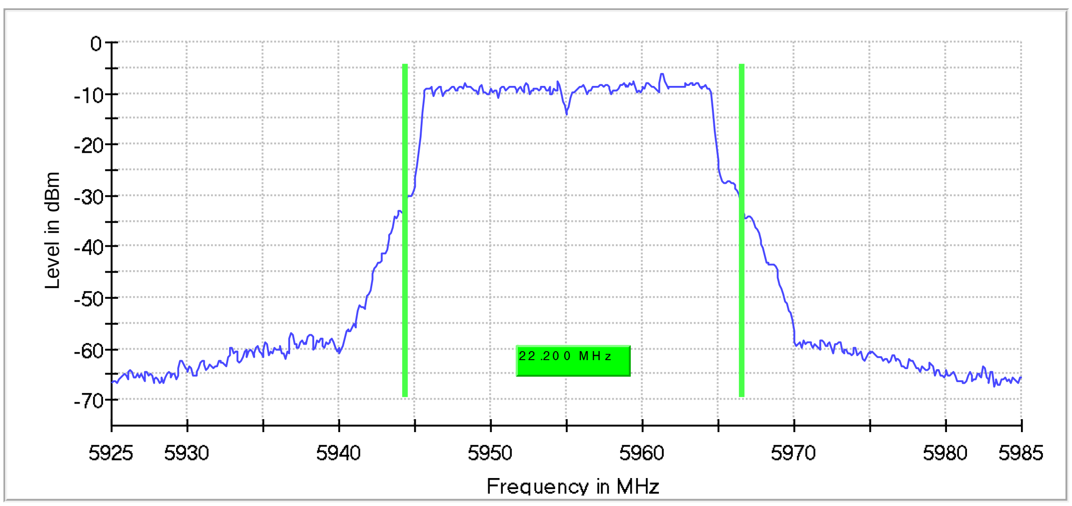


Figure 1: 26 dB Bandwidth

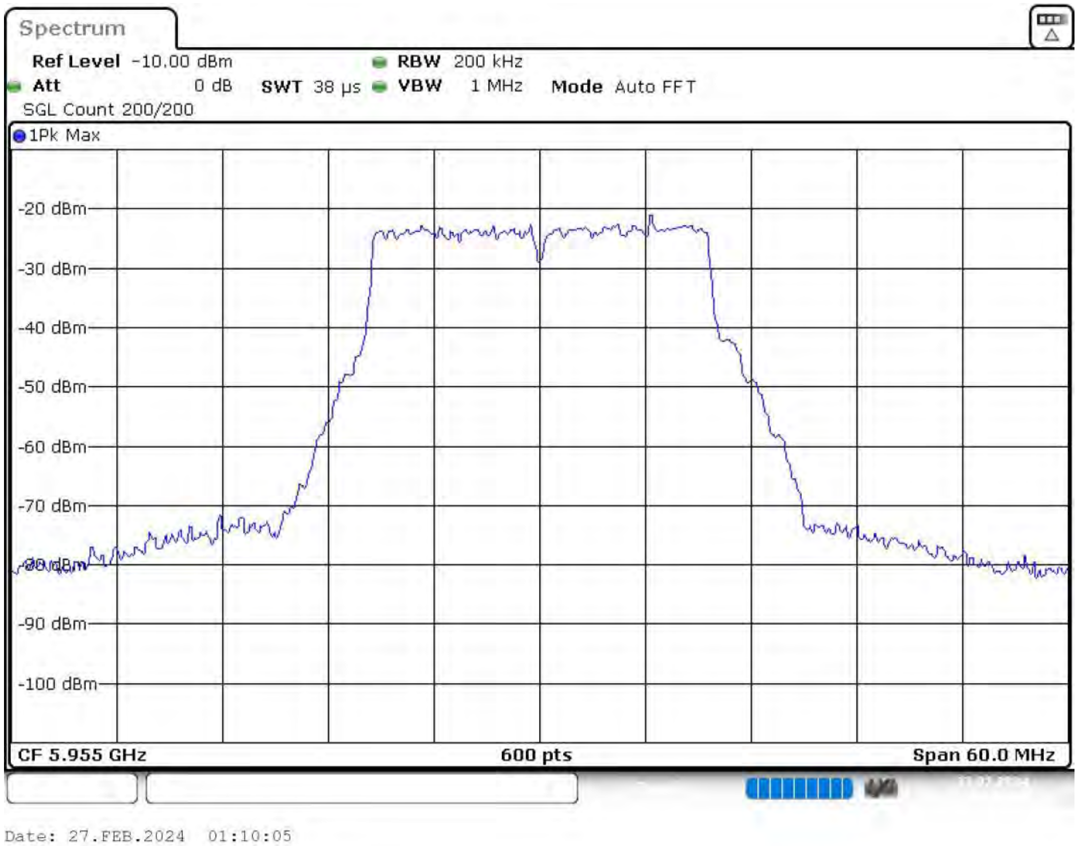


Table 3: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.92500 GHz	5.92500 GHz
Stop Frequency	5.98500 GHz	5.98500 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
Sweeptime	37.969 µs	AUTO
Reference Level	-10.000 dBm	AUTO
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.2 RF output power (5955 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 4: Result

DUT Frequency	Gated EIRP	Limit Max	Gated RMS	DutyCycle	Result
MHz	dBm	dBm	dBm	%	
5955.000000	13.4	24.0	13.4	99.726	PASS

Table 5: OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

2.3 In-Band Emissions (5955 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 6: Result

DUT Frequency	Result
MHz	
5955.000000	PASS

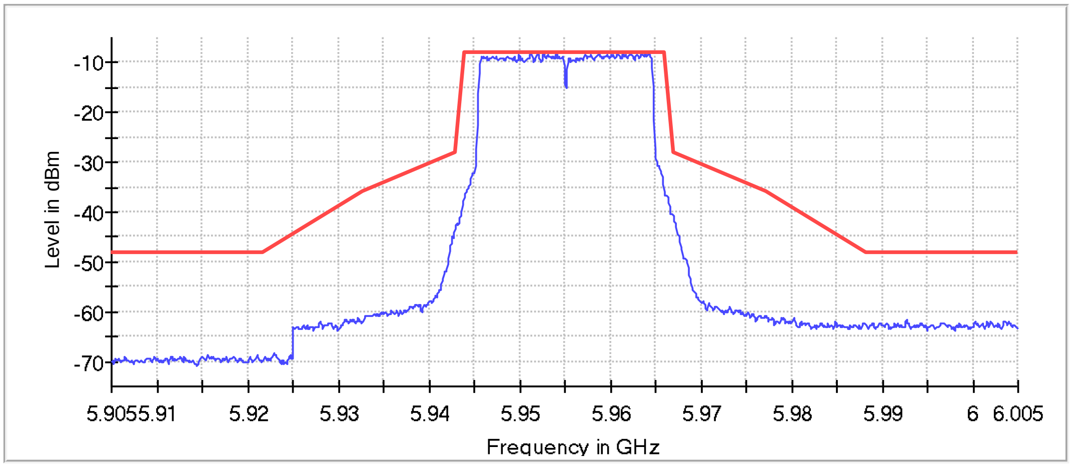
Table 7: Inband Peak

Frequency	Level
MHz	dBm
5962.750000	-3.7

Table 8: Measurements

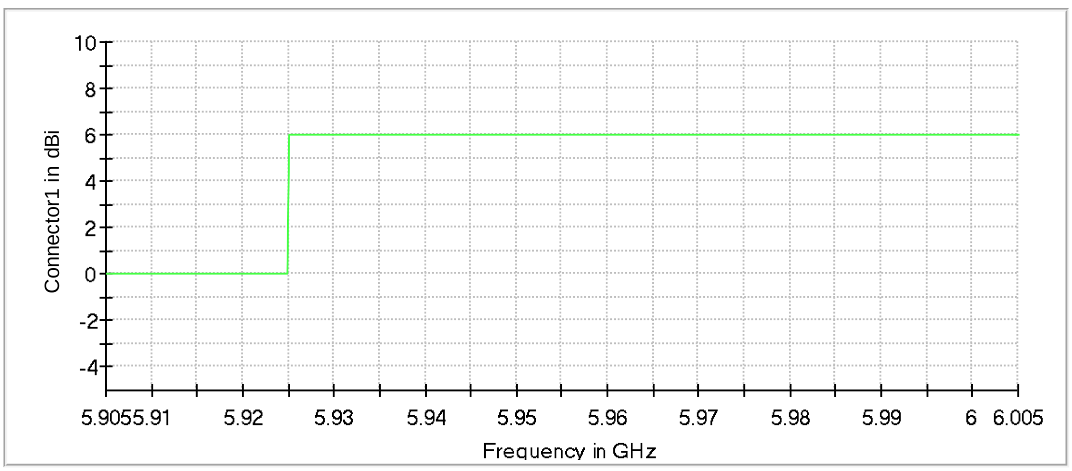
Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
5962.750000	-3.7	0.0	-3.7	PASS
5962.850000	-3.7	0.1	-3.7	PASS
5964.350000	-3.8	0.1	-3.7	PASS
5962.050000	-3.8	0.1	-3.7	PASS
5961.950000	-3.8	0.1	-3.7	PASS
5964.450000	-3.8	0.1	-3.7	PASS
5954.650000	-3.8	0.1	-3.7	PASS
5953.750000	-3.9	0.2	-3.7	PASS
5954.750000	-3.9	0.2	-3.7	PASS
5961.250000	-3.9	0.2	-3.7	PASS
5963.550000	-3.9	0.2	-3.7	PASS
5958.650000	-3.9	0.2	-3.7	PASS
5962.650000	-4.0	0.3	-3.7	PASS
5963.950000	-4.0	0.3	-3.7	PASS
5963.850000	-4.0	0.3	-3.7	PASS

In Band



Level Limit Fail

Gain



Connector1

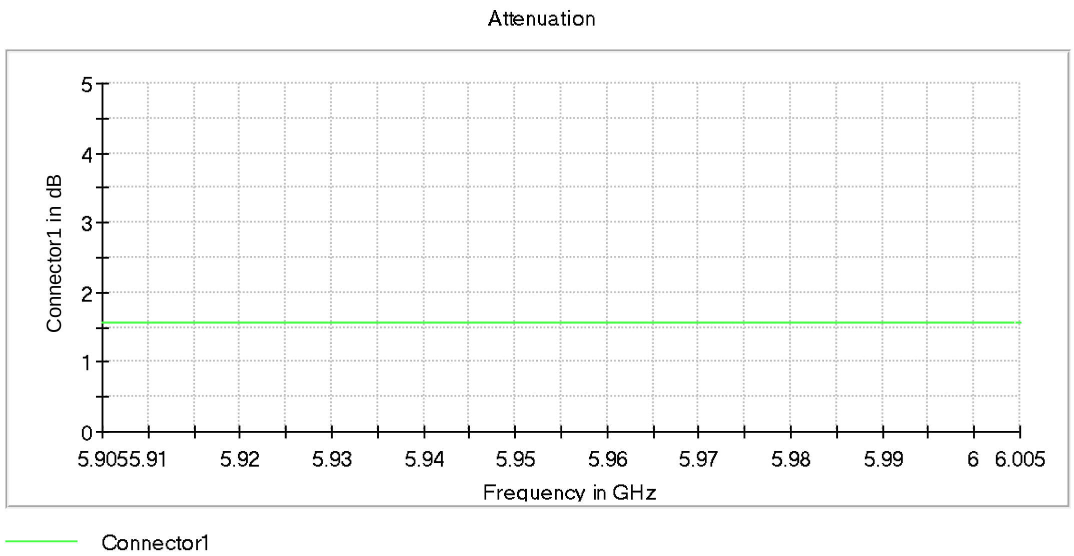


Figure 2: Attenuation

Figure 3: Gain

Figure 4: In Band

Table 9: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.90500 GHz	5.90500 GHz
Stop Frequency	6.00500 GHz	6.00500 GHz
Span	100.000 MHz	100.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	~ 800.000 kHz
SweepPoints	1000	~ 1000
Sweeptime	1.050 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.4 Occupied Channel Bandwidth 99% (5955 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 10: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
5955.000000	19.500000	---	320.000000	5945.125000	5925.000000	5964.625000	7125.000000	PASS

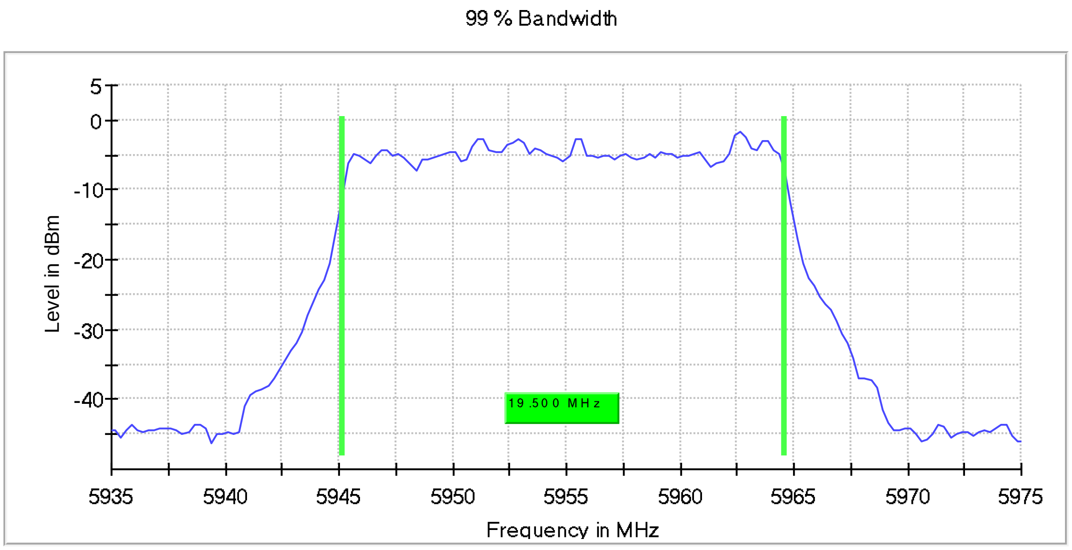


Figure 5: 99 % Bandwidth

Table 11: Measurement

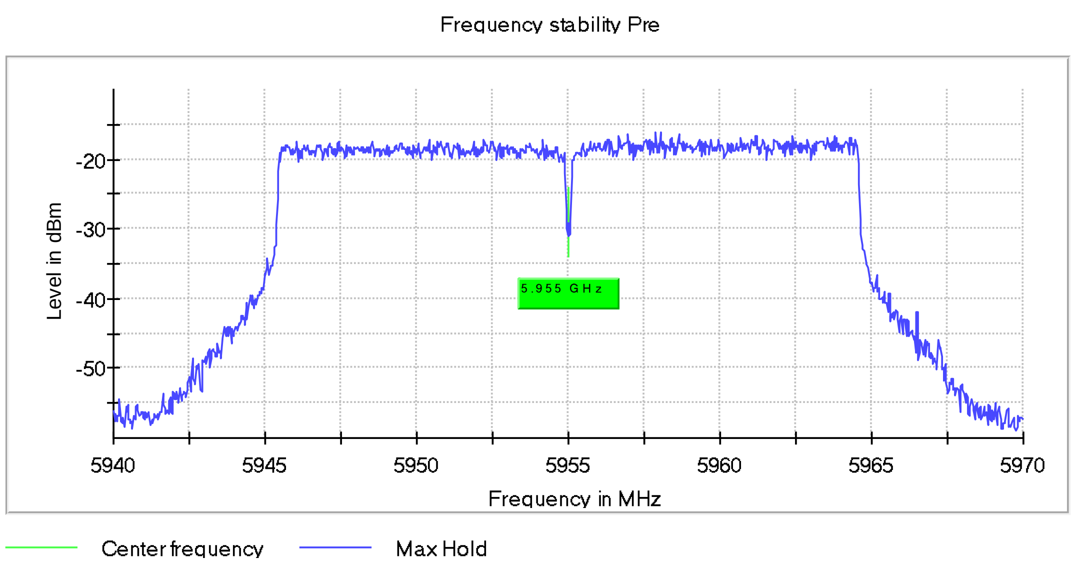
Setting	Instrument Value	Target Value
Start Frequency	5.93500 GHz	5.93500 GHz
Stop Frequency	5.97500 GHz	5.97500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	>= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
Sweeptime	11.344 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.5 Frequency Stability (5955 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 12: Result

DUT Frequency	Frequency	Difference	Frequency Difference	Limit Min	Limit Max	Result
MHz	MHz	ppm	kHz	MHz	MHz	
5955.000000	5955.004400	0.739	4.399500	---	---	**PASS**



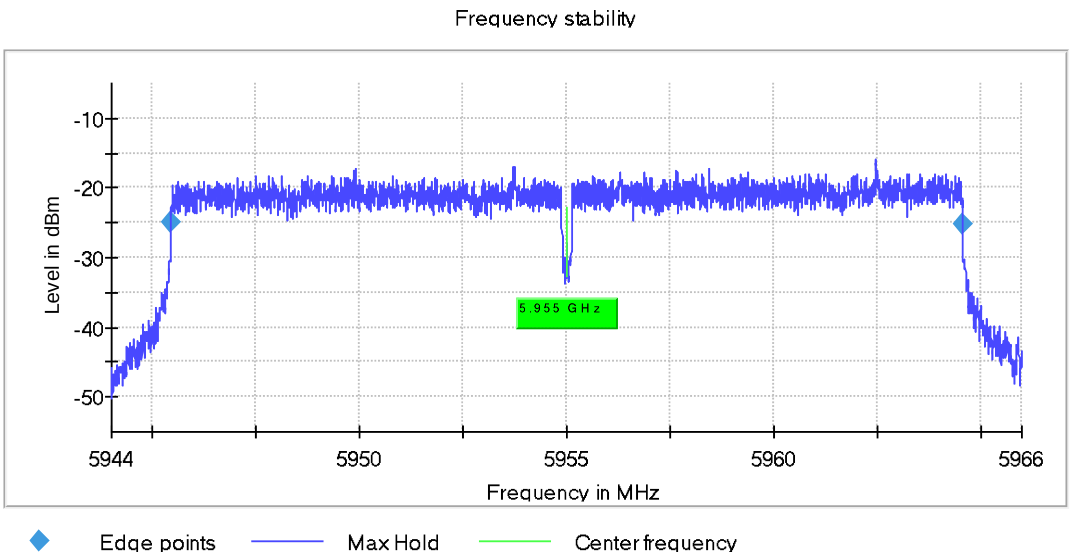


Figure 6: Frequency stability

Figure 7: Frequency stability Pre

Table 13: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.94400 GHz	5.94400 GHz
Stop Frequency	5.96600 GHz	5.96600 GHz
Span	22.000 MHz	22.000 MHz
RBW	20.000 kHz	<= 22.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	10001	~ 10001
Sweeptime	473.902 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.6 Emission Bandwidth 26 dB (6195 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 14: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6195.000000	22.700000	---	320.000000	6183.450000	---	6206.150000	---	-6.4	PASS

26 dB Bandwidth

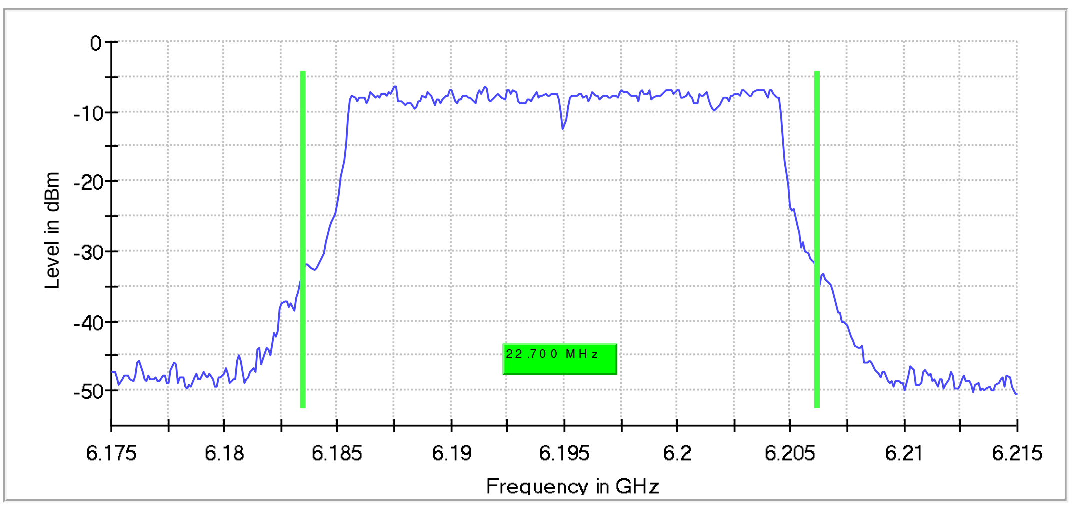
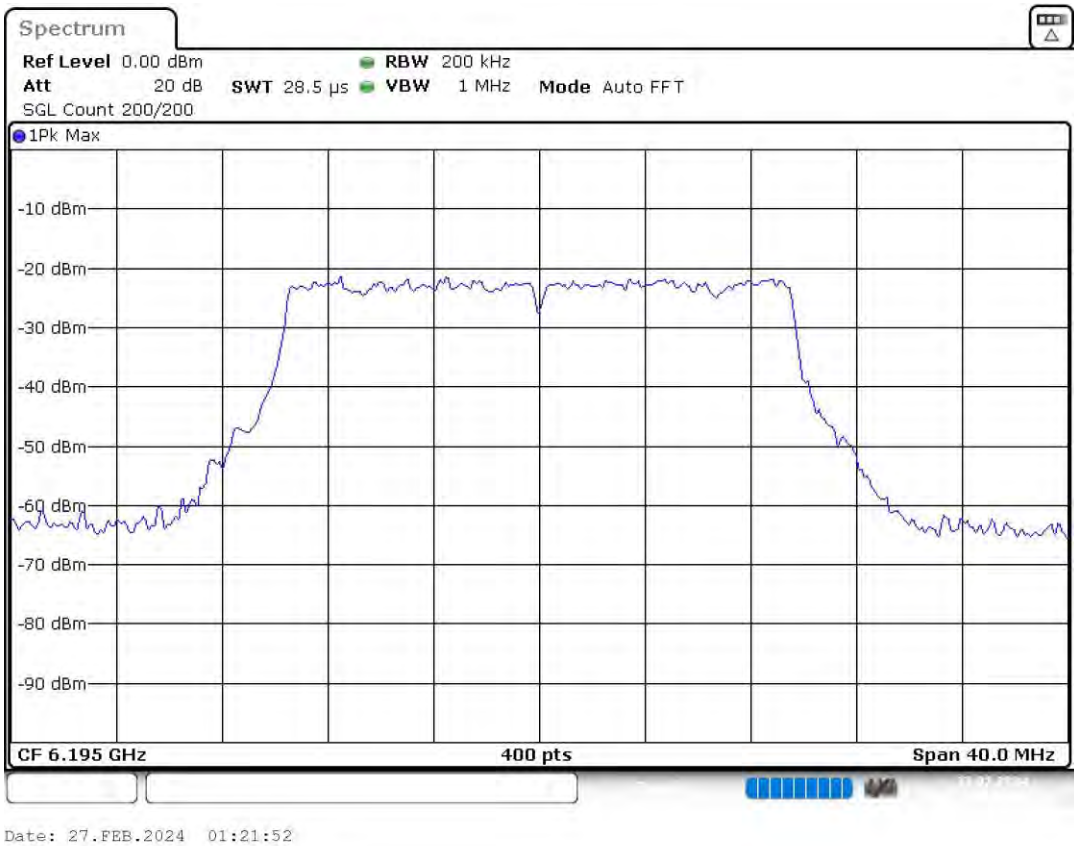


Figure 8: 26 dB Bandwidth



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2.7 In-Band Emissions (6195 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 15: Result

DUT Frequency	Result
MHz	
6195.000000	PASS

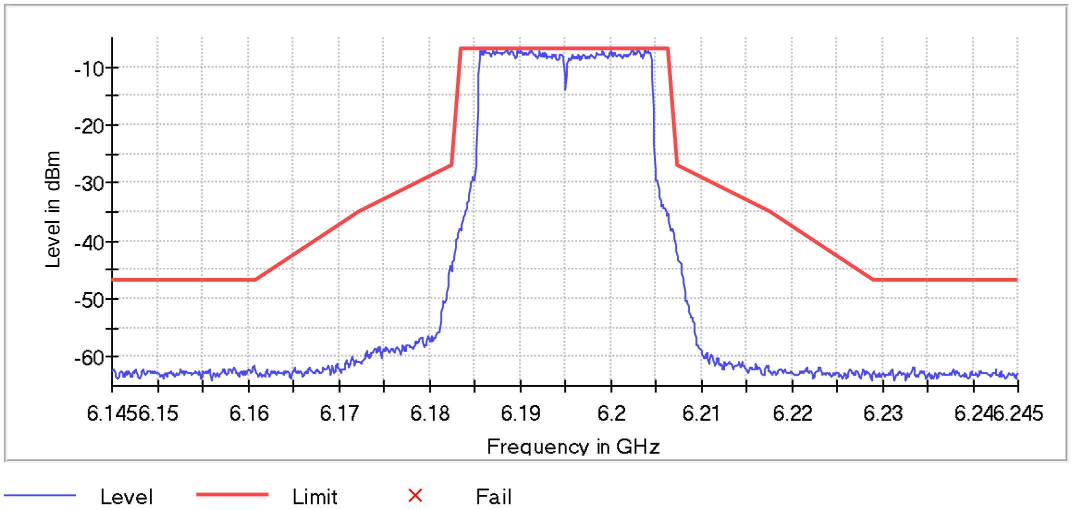
Table 16: Inband Peak

Frequency	Level
MHz	dBm
6202.550000	-2.8

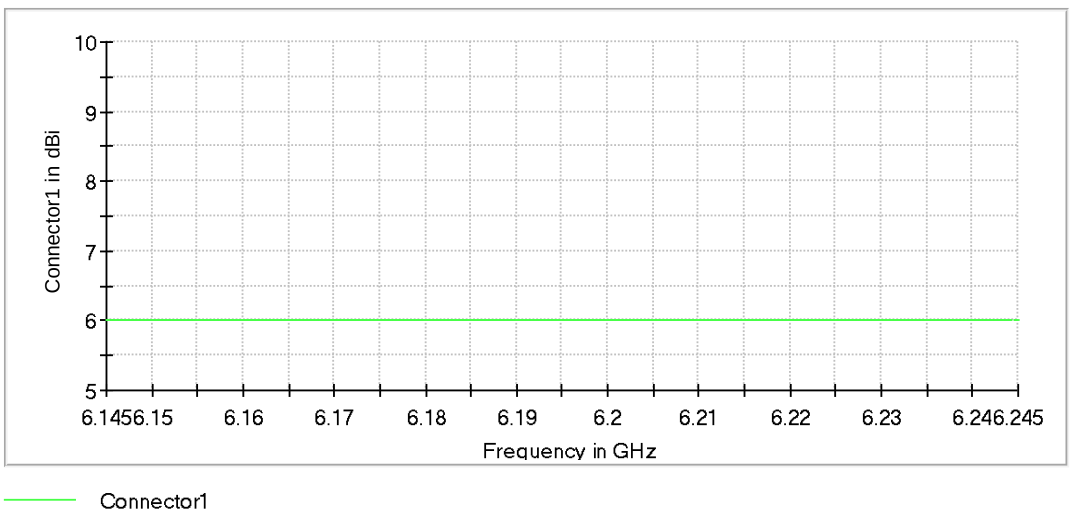
Table 17: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6203.550000	-2.9	0.1	-2.8	PASS
6202.350000	-2.9	0.1	-2.8	PASS
6202.650000	-3.0	0.1	-2.8	PASS
6202.450000	-3.0	0.1	-2.8	PASS
6202.250000	-3.0	0.2	-2.8	PASS
6185.950000	-3.2	0.3	-2.8	PASS
6202.750000	-3.2	0.4	-2.8	PASS
6202.150000	-3.2	0.4	-2.8	PASS
6186.650000	-3.3	0.4	-2.8	PASS
6203.650000	-3.3	0.4	-2.8	PASS
6203.450000	-3.3	0.4	-2.8	PASS
6197.750000	-3.3	0.4	-2.8	PASS
6196.050000	-3.3	0.5	-2.8	PASS
6202.050000	-3.3	0.5	-2.8	PASS
6204.050000	-3.4	0.5	-2.8	PASS

In Band



Gain



PROPRIETARY

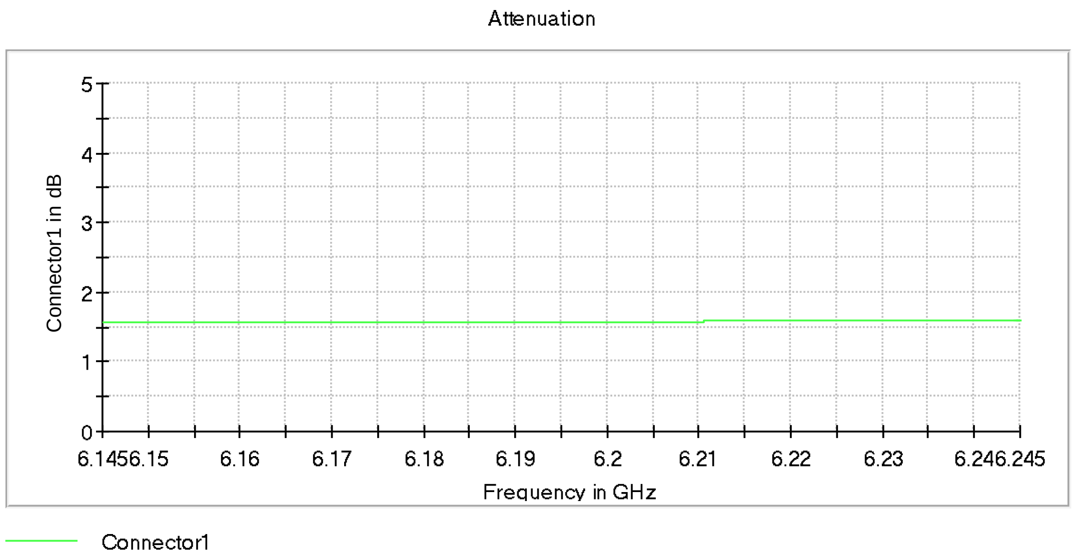


Figure 9: Attenuation

Figure 10: Gain

Figure 11: In Band

Table 18: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.14500 GHz	6.14500 GHz
Stop Frequency	6.24500 GHz	6.24500 GHz
Span	100.000 MHz	100.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	~ 800.000 kHz
SweepPoints	1000	~ 1000
Sweeptime	1.050 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.8 Occupied Channel Bandwidth 99% (6195 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 19: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6195.000000	19.250000	---	320.000000	6185.375000	5925.000000	6204.625000	7125.000000	PASS

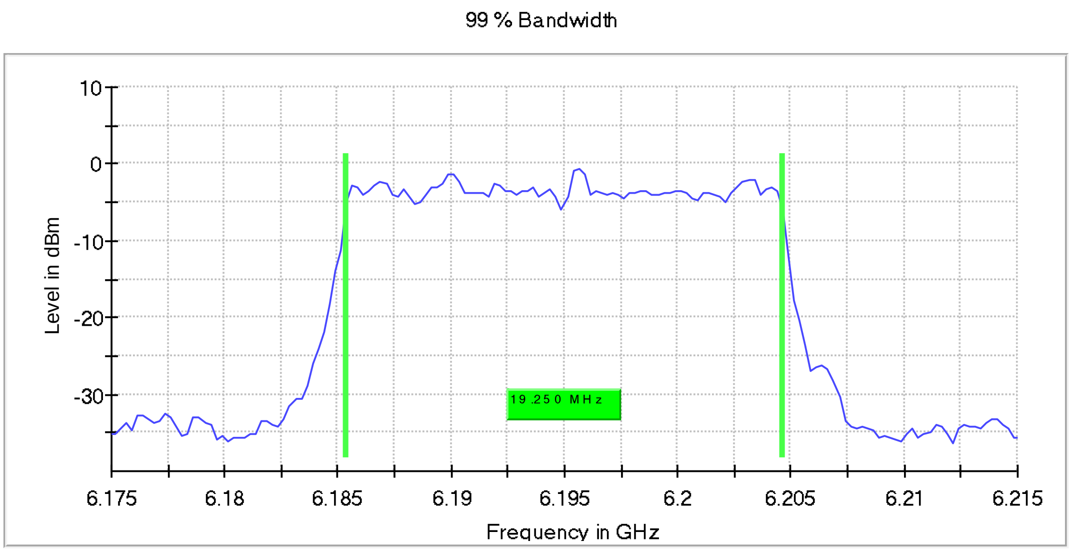


Figure 12: 99 % Bandwidth

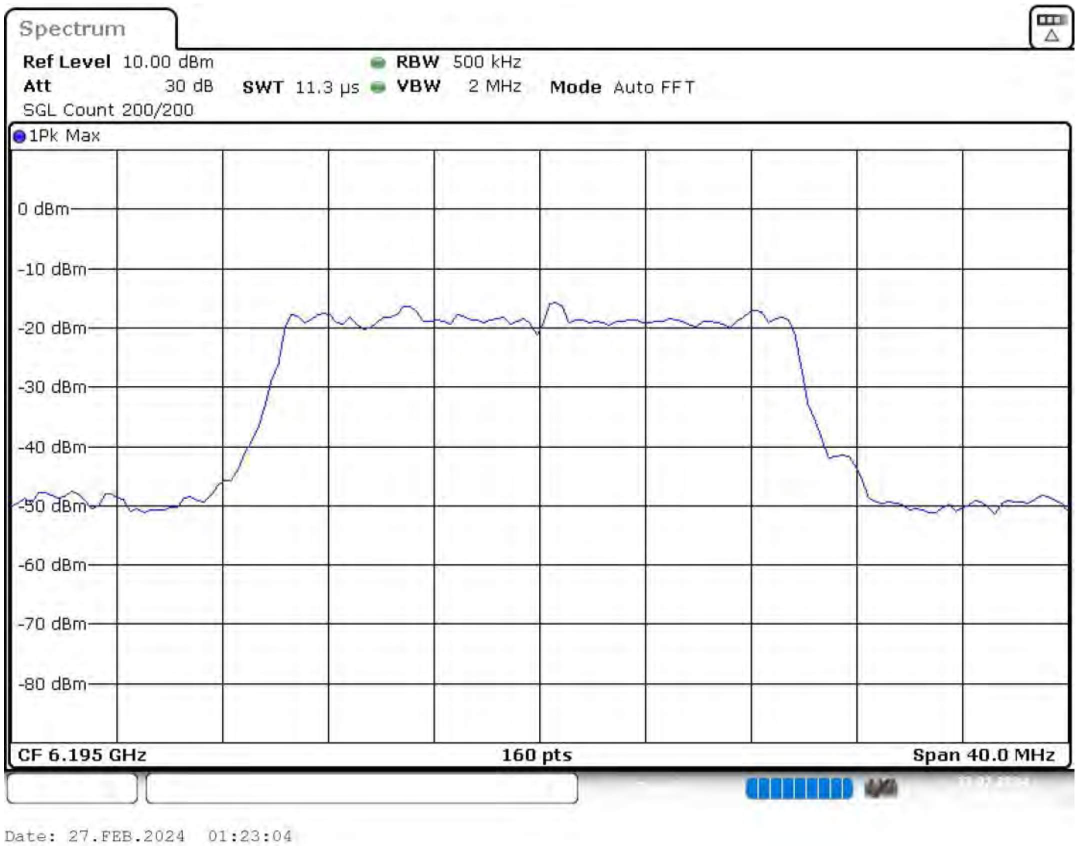


Table 20: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.17500 GHz	6.17500 GHz
Stop Frequency	6.21500 GHz	6.21500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	>= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
Sweeptime	11.344 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.9 Emission Bandwidth 26 dB (6415 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 21: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6415.000000	23.100000	---	320.000000	6403.350000	---	6426.450000	---	-7.1	PASS

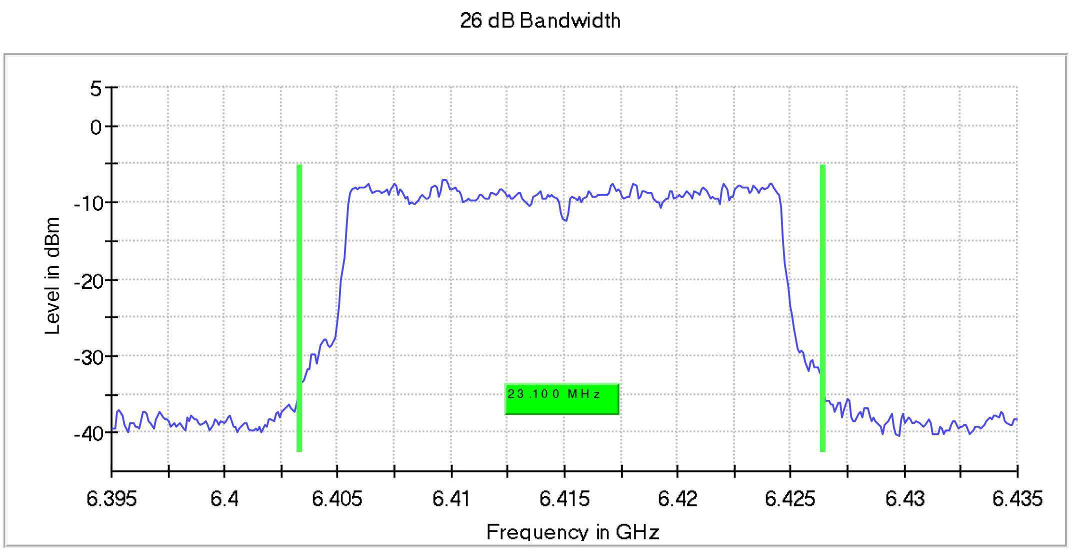


Figure 13: 26 dB Bandwidth

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2.10 In-Band Emissions (6415 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 22: Result

DUT Frequency	Result
MHz	
6415.000000	PASS

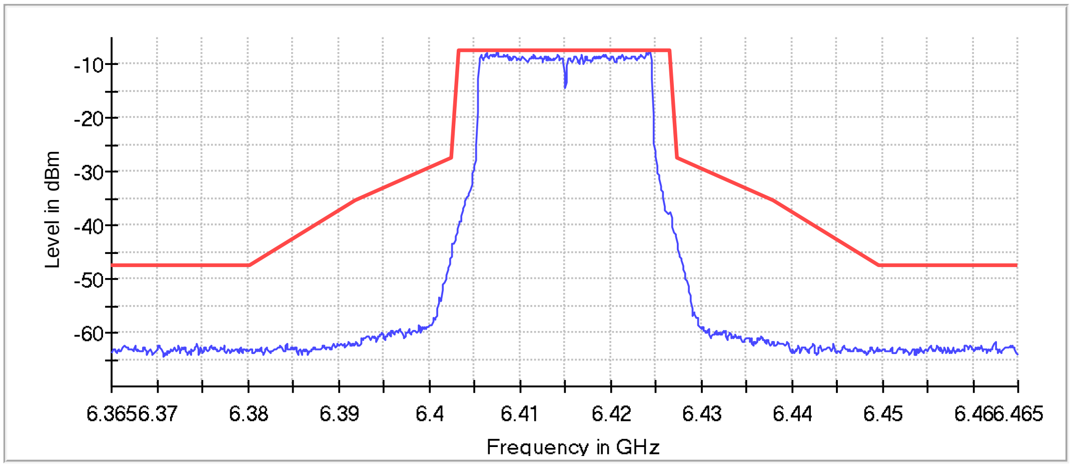
Table 23: Inband Peak

Frequency	Level
MHz	dBm
6406.850000	-3.5

Table 24: Measurements

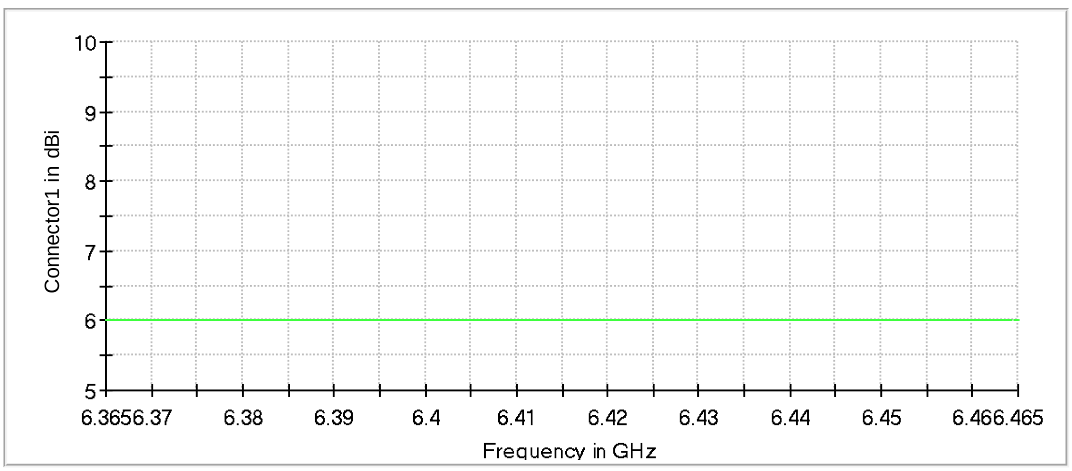
Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6406.750000	-3.6	0.2	-3.5	PASS
6408.350000	-3.7	0.3	-3.5	PASS
6407.950000	-3.8	0.3	-3.5	PASS
6419.950000	-3.8	0.3	-3.5	PASS
6408.450000	-3.8	0.3	-3.5	PASS
6408.550000	-3.8	0.3	-3.5	PASS
6406.150000	-3.9	0.4	-3.5	PASS
6420.050000	-4.0	0.5	-3.5	PASS
6406.550000	-4.0	0.5	-3.5	PASS
6406.250000	-4.0	0.5	-3.5	PASS
6422.550000	-4.0	0.5	-3.5	PASS
6406.650000	-4.0	0.6	-3.5	PASS
6421.550000	-4.0	0.6	-3.5	PASS
6408.050000	-4.0	0.6	-3.5	PASS
6421.650000	-4.0	0.6	-3.5	PASS

In Band



Level Limit Fail

Gain



Connector1

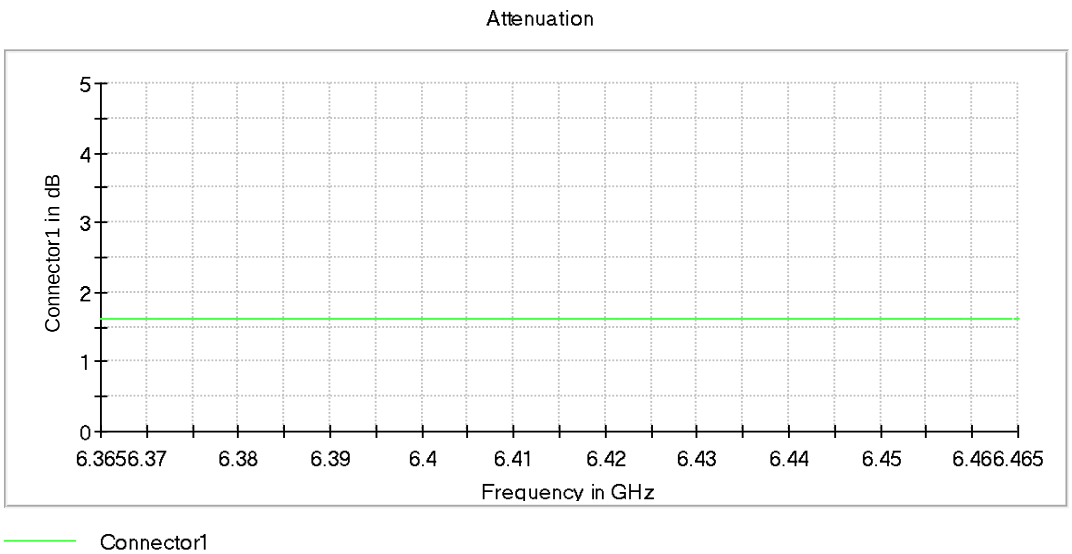


Figure 14: Attenuation

Figure 15: Gain

Figure 16: In Band

Table 25: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.36500 GHz	6.36500 GHz
Stop Frequency	6.46500 GHz	6.46500 GHz
Span	100.000 MHz	100.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	~ 800.000 kHz
SweepPoints	1000	~ 1000
Sweeptime	1.050 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.11 Occupied Channel Bandwidth 99% (6415 MHz, 20 MHz, 24.000 dBm)

Customized settings.

Table 26: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6415.000000	19.250000	---	320.000000	6405.375000	5925.000000	6424.625000	7125.000000	PASS

99 % Bandwidth

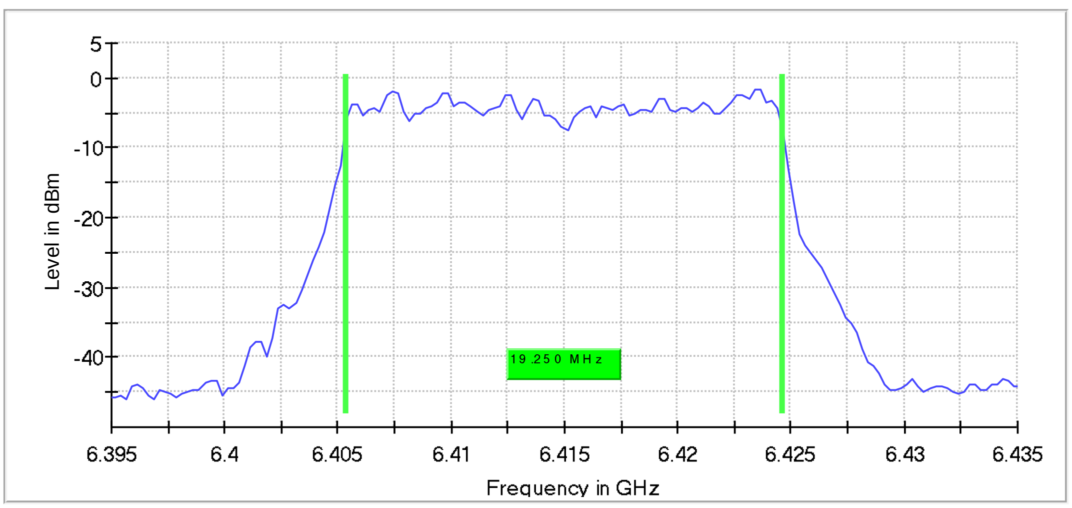


Figure 17: 99 % Bandwidth

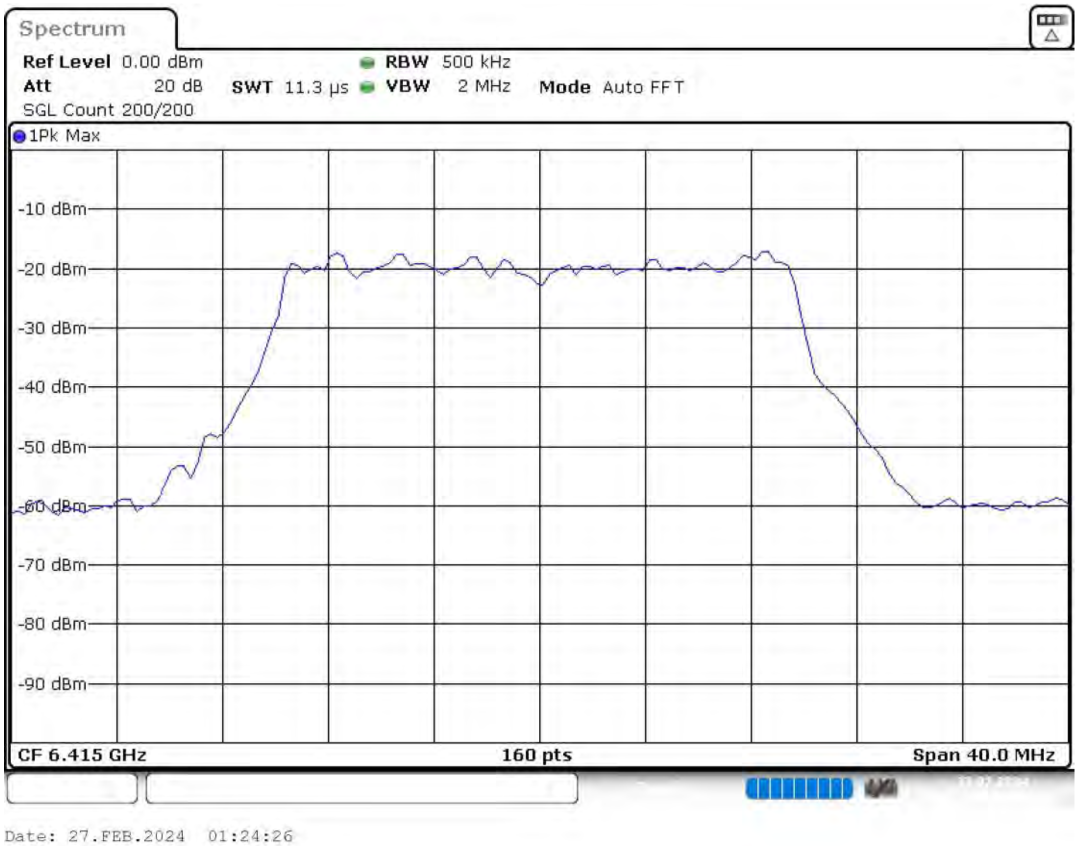


Table 27: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.39500 GHz	6.39500 GHz
Stop Frequency	6.43500 GHz	6.43500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	>= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
Sweeptime	11.344 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.12 Emission Bandwidth 26 dB (5965 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 28: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5965.000000	43.076923	---	320.000000	5943.386492	---	5986.463415	---	-3.8	PASS

26 dB Bandwidth

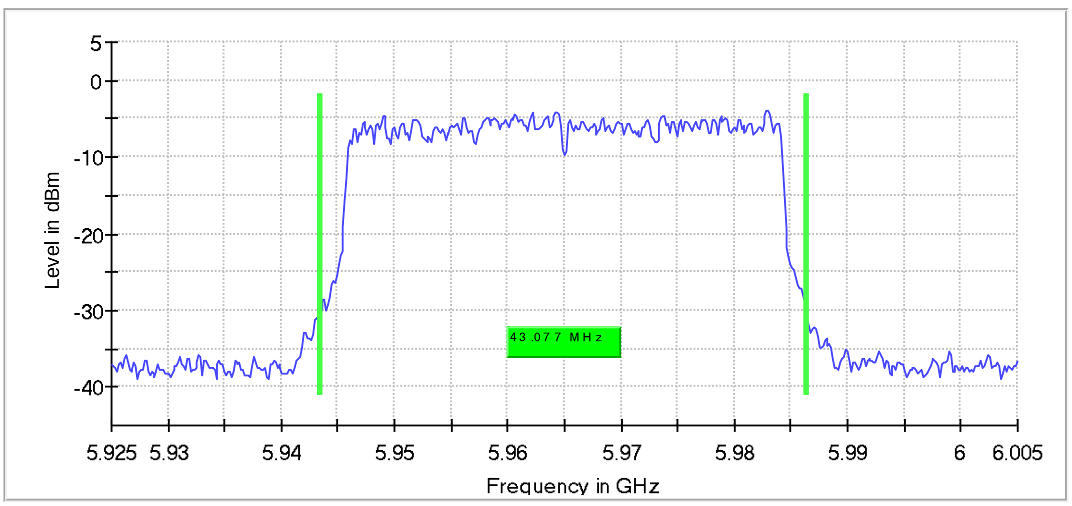
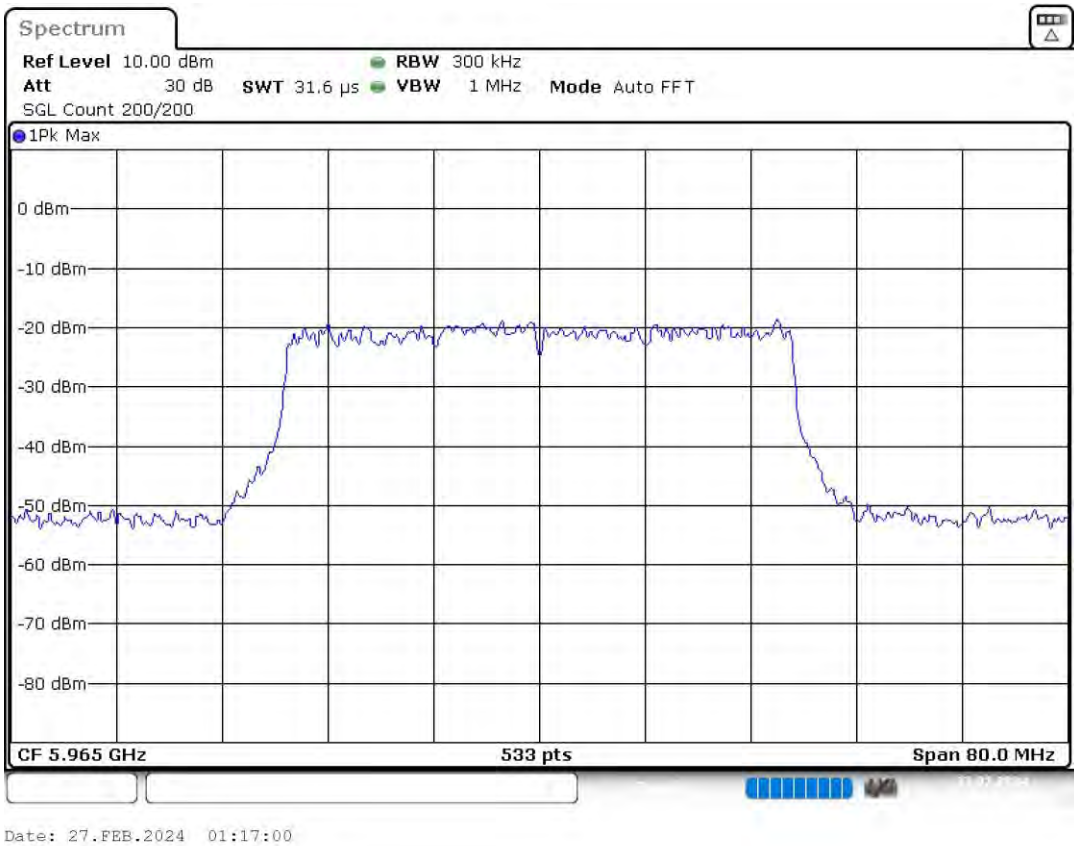


Figure 18: 26 dB Bandwidth


Spectrum
Ref Level 10.00 dBm
Att 30 dB
SWT 31.6 µs
RBW 300 kHz
VBW 1 MHz
Mode Auto FFT
SGL Count 200/200
1Pk Max
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
CF 5.965 GHz
533 pts
Span 80.0 MHz
Date: 27.FEB.2024 01:17:00

2.13 In-Band Emissions (5965 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 29: Result

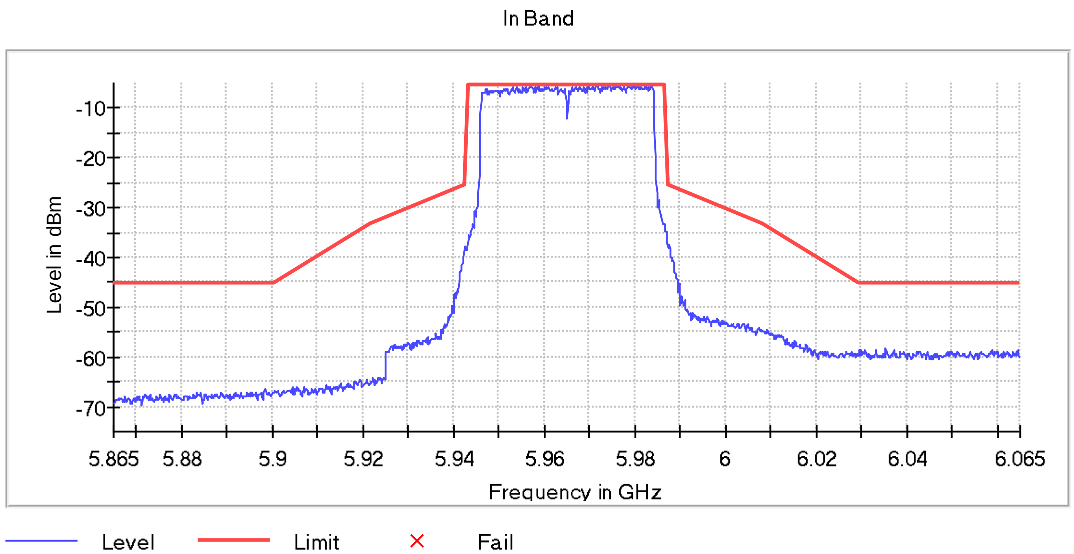
DUT Frequency	Result
MHz	
5965.000000	PASS

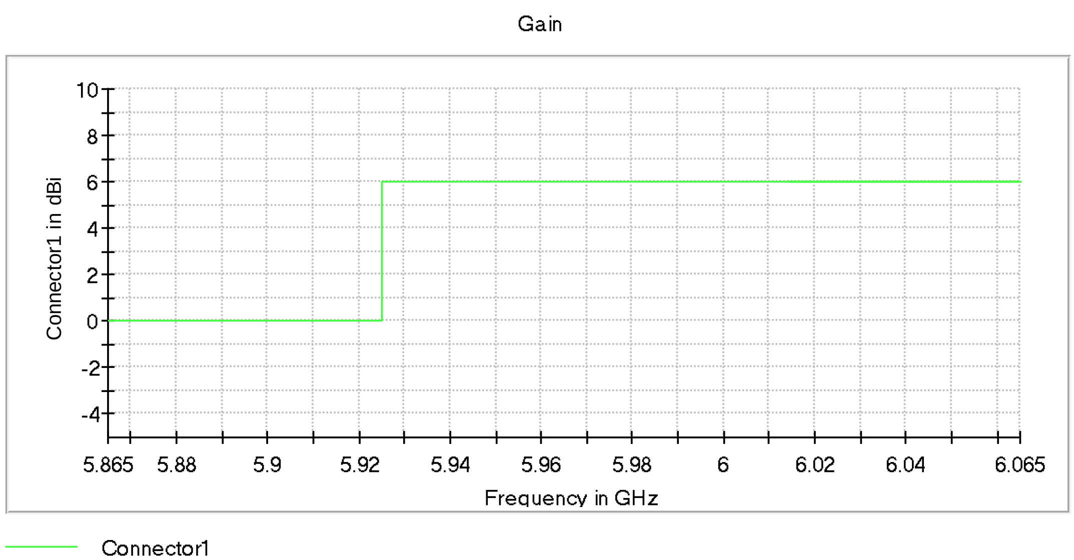
Table 30: Inband Peak

Frequency	Level
MHz	dBm
5971.601650	-5.3

Table 31: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
5971.601650	-5.3	0.0	-5.3	PASS
5974.452363	-5.4	0.0	-5.3	PASS
5976.402851	-5.4	0.1	-5.3	PASS
5983.754689	-5.4	0.1	-5.3	PASS
5980.153788	-5.4	0.1	-5.3	PASS
5978.653413	-5.4	0.1	-5.3	PASS
5977.603151	-5.5	0.1	-5.3	PASS
5971.451613	-5.5	0.1	-5.3	PASS
5982.254314	-5.5	0.2	-5.3	PASS
5976.252813	-5.5	0.2	-5.3	PASS
5974.302326	-5.5	0.2	-5.3	PASS
5970.701425	-5.5	0.2	-5.3	PASS
5979.703676	-5.5	0.2	-5.3	PASS
5983.604651	-5.6	0.2	-5.3	PASS
5983.904726	-5.6	0.2	-5.3	PASS


In Band
Level in dBm
-10
-20
-30
-40
-50
-60
-70
5.865
5.88
5.9
5.92
5.94
5.96
5.98
6
6.02
6.04
6.065
Frequency in GHz
Level
Limit
Fail


Gain
Connector1 in dBi
10
8
6
4
2
0
-2
-4
5.865
5.88
5.9
5.92
5.94
5.96
5.98
6
6.02
6.04
6.065
Frequency in GHz
Connector1

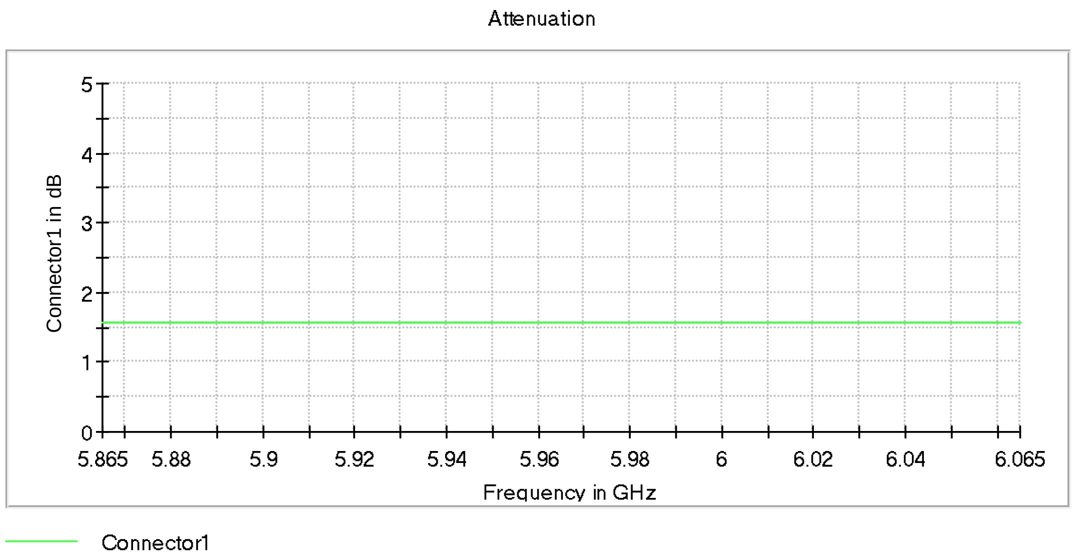


Figure 19: Attenuation

Figure 20: Gain

Figure 21: In Band

Table 32: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.86500 GHz	5.86500 GHz
Stop Frequency	6.06500 GHz	6.06500 GHz
Span	200.000 MHz	200.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	~ 900.000 kHz
SweepPoints	1333	~ 1333
Sweeptime	1.340 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.14 Occupied Channel Bandwidth 99% (5965 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 33: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
5965.000000	38.250000	---	320.000000	5945.875000	5925.000000	5984.125000	7125.000000	PASS

99 % Bandwidth

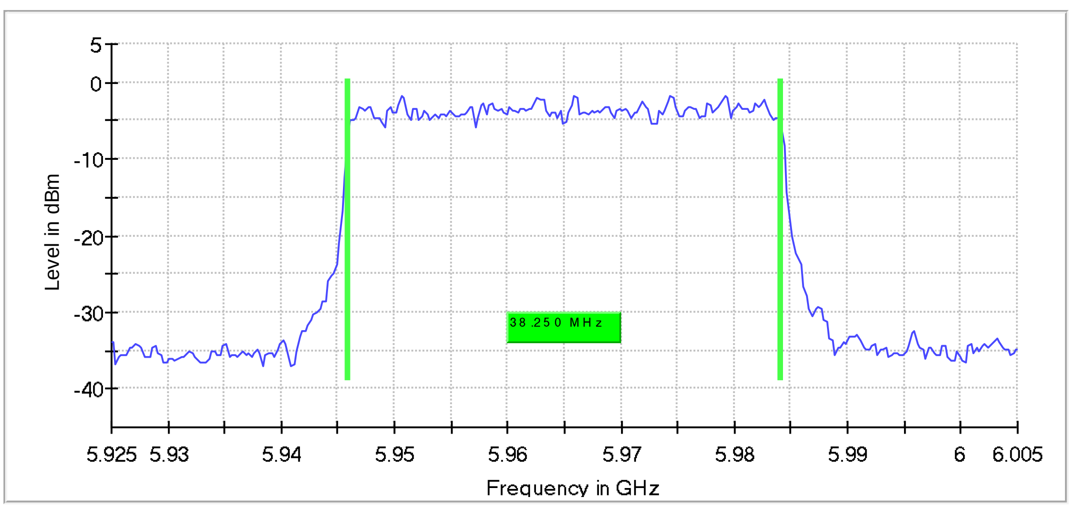


Figure 22: 99 % Bandwidth

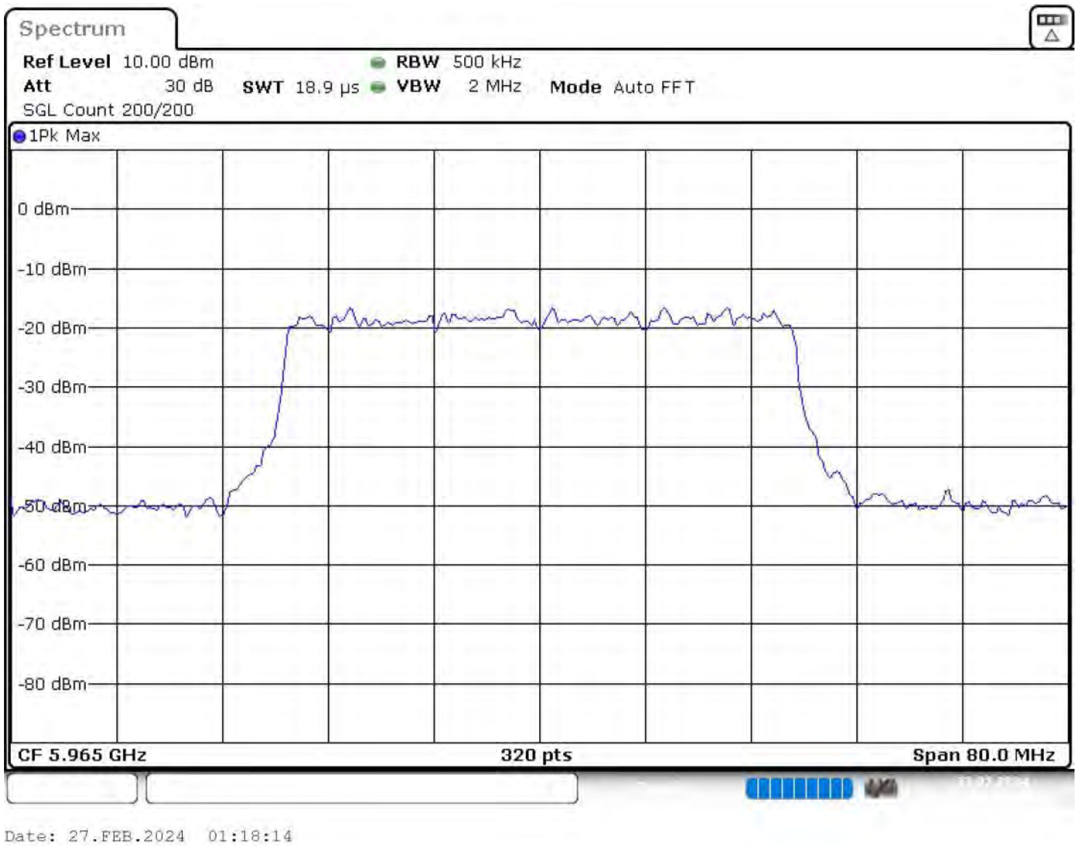


Table 34: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.92500 GHz	5.92500 GHz
Stop Frequency	6.00500 GHz	6.00500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.15 Emission Bandwidth 26 dB (6205 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 35: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6205.000000	42.926829	---	320.000000	6183.236398	---	6226.163227	---	-4.1	PASS

26 dB Bandwidth

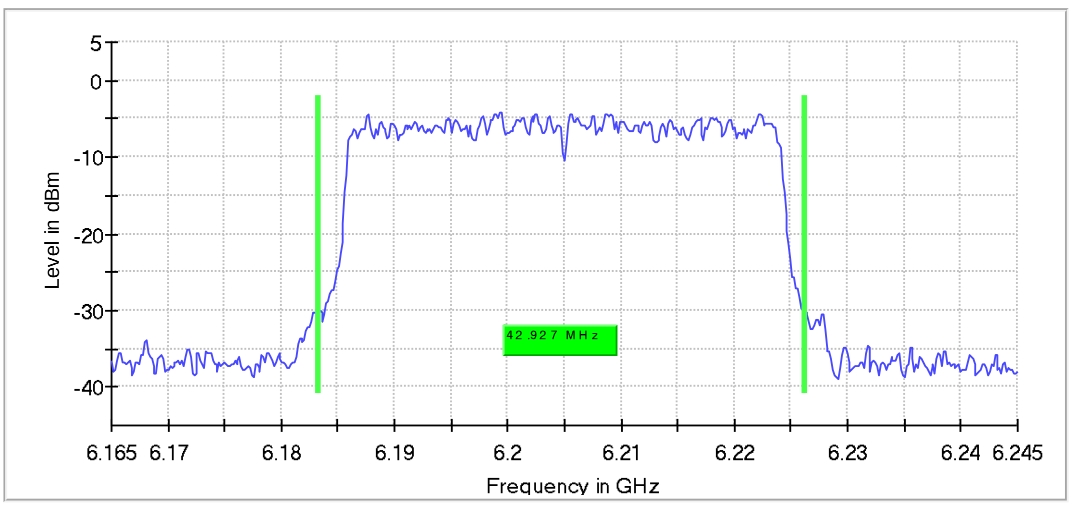
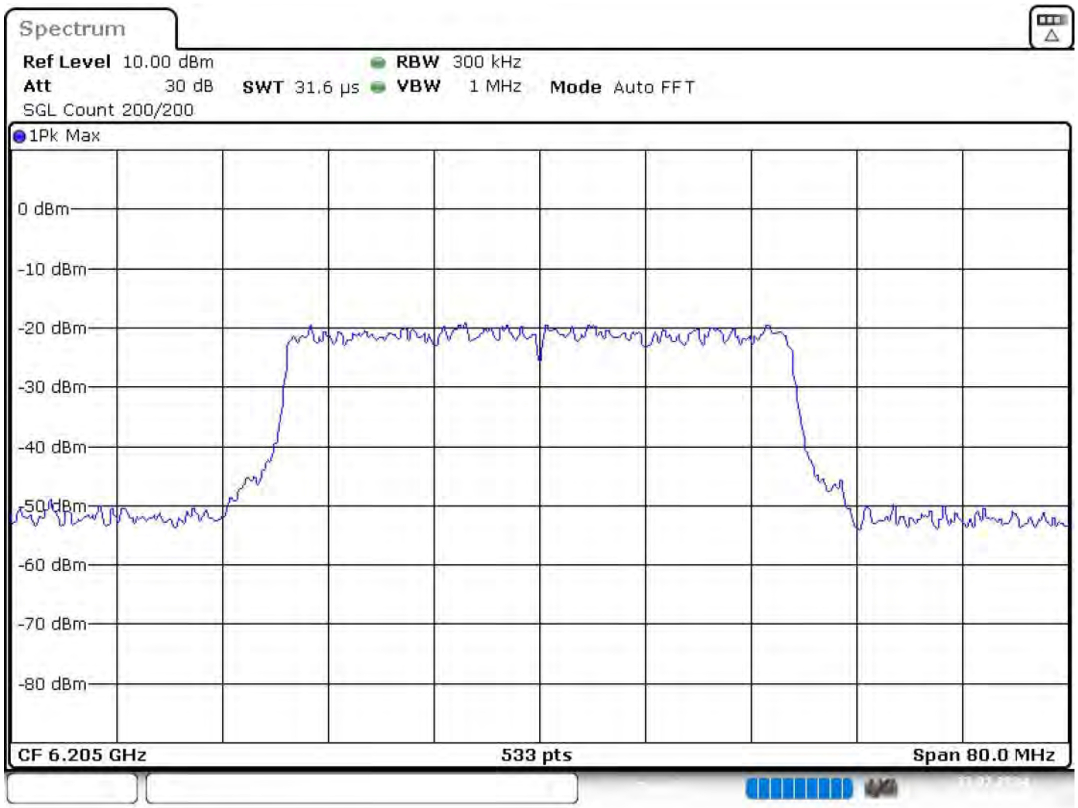


Figure 23: 26 dB Bandwidth



Date: 27.FEB.2024 01:26:27

2.16 In-Band Emissions (6205 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 36: Result

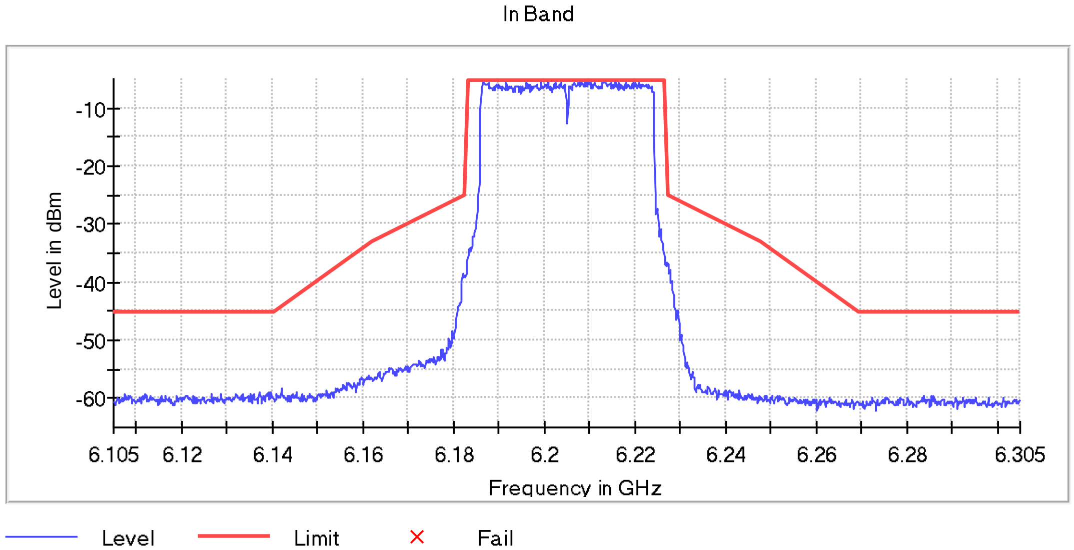
DUT Frequency	Result
MHz	
6205.000000	PASS

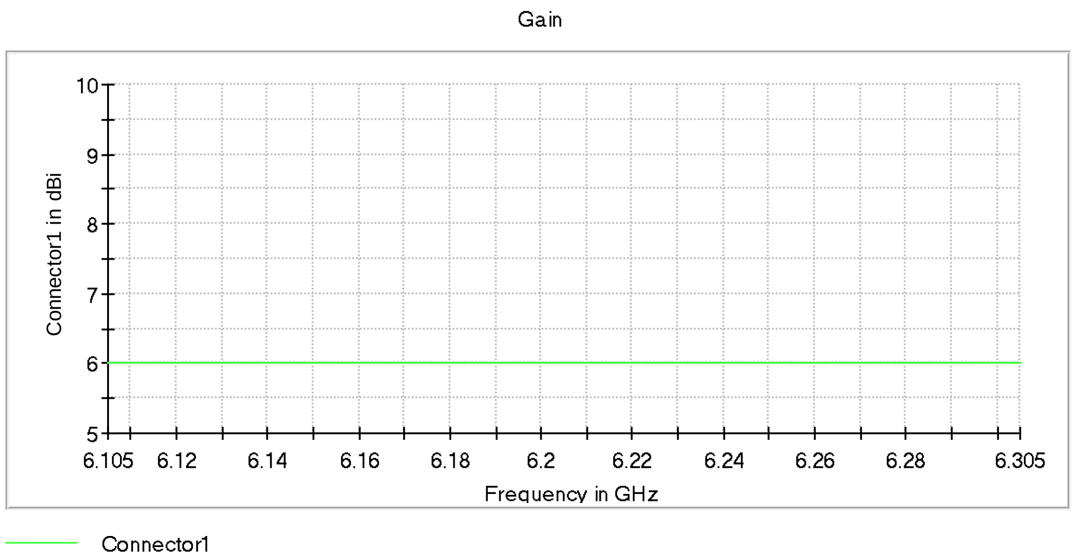
Table 37: Inband Peak

Frequency	Level
MHz	dBm
6208.000750	-5.2

Table 38: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6208.000750	-5.2	0.0	-5.2	PASS
6215.802701	-5.3	0.1	-5.2	PASS
6213.252063	-5.4	0.1	-5.2	PASS
6209.051013	-5.4	0.2	-5.2	PASS
6186.545386	-5.4	0.2	-5.2	PASS
6209.651163	-5.4	0.2	-5.2	PASS
6200.948987	-5.5	0.2	-5.2	PASS
6213.552138	-5.5	0.3	-5.2	PASS
6206.650413	-5.5	0.3	-5.2	PASS
6213.702176	-5.6	0.3	-5.2	PASS
6206.800450	-5.6	0.3	-5.2	PASS
6209.501125	-5.6	0.4	-5.2	PASS
6213.402101	-5.6	0.4	-5.2	PASS
6216.552888	-5.6	0.4	-5.2	PASS
6187.745686	-5.6	0.4	-5.2	PASS


In Band
Level in dBm
-10
-20
-30
-40
-50
-60
6.105
6.12
6.14
6.16
6.18
6.2
6.22
6.24
6.26
6.28
6.305
Frequency in GHz
Level
Limit
Fail


Gain
Connector1 in dBi
10
9
8
7
6
5
6.105
6.12
6.14
6.16
6.18
6.2
6.22
6.24
6.26
6.28
6.305
Frequency in GHz
Connector1

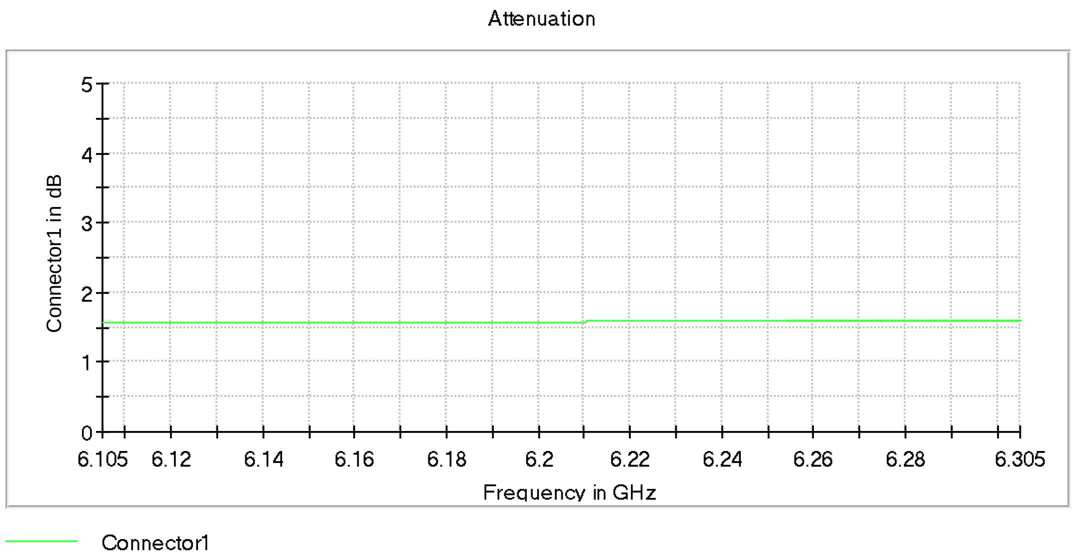


Figure 24: Attenuation

Figure 25: Gain

Figure 26: In Band

Table 39: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.10500 GHz	6.10500 GHz
Stop Frequency	6.30500 GHz	6.30500 GHz
Span	200.000 MHz	200.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	~ 900.000 kHz
SweepPoints	1333	~ 1333
Sweeptime	1.340 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.17 Occupied Channel Bandwidth 99% (6205 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 40: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6205.000000	38.250000	---	320.000000	6185.875000	5925.000000	6224.125000	7125.000000	PASS

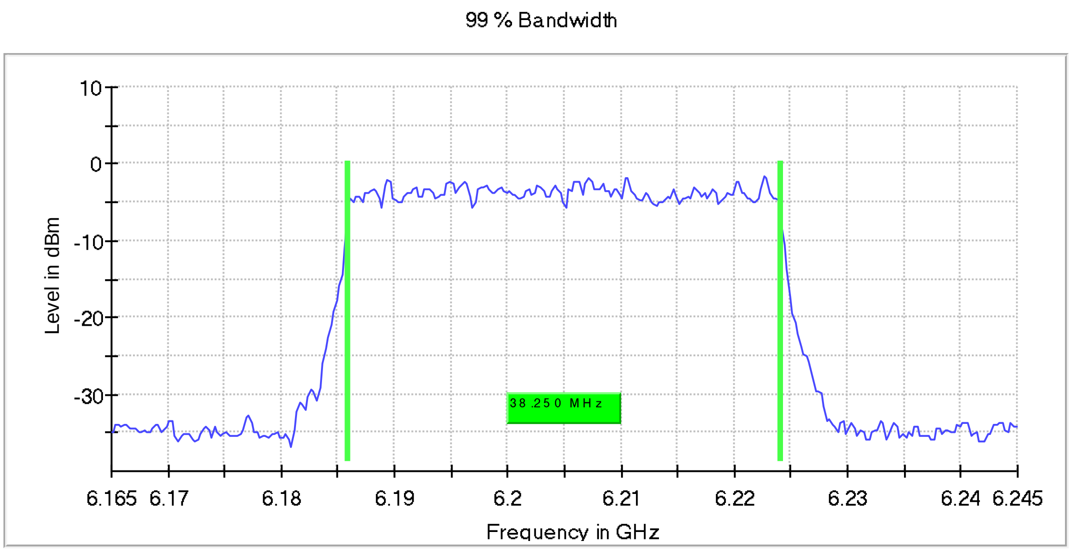


Figure 27: 99 % Bandwidth

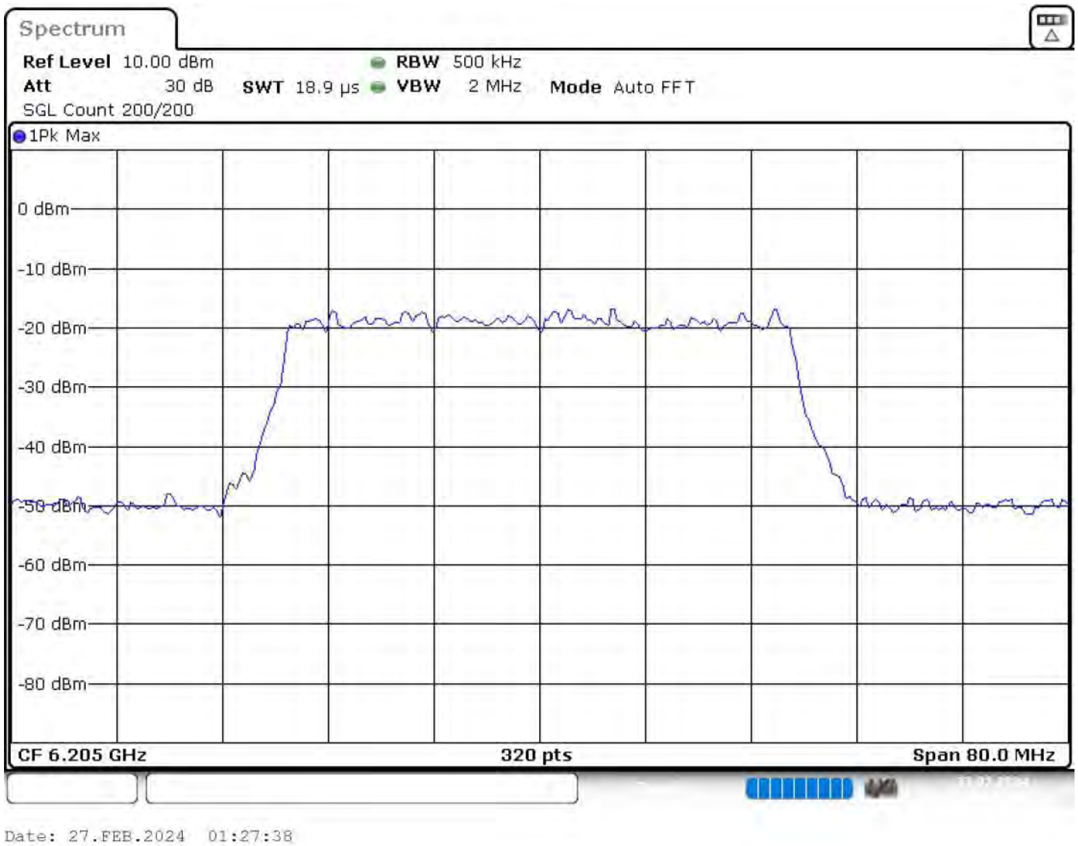


Table 41: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.16500 GHz	6.16500 GHz
Stop Frequency	6.24500 GHz	6.24500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.18 Emission Bandwidth 26 dB (6405 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 42: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6405.000000	44.577861	---	320.000000	6382.335835	---	6426.913696	---	-4.6	PASS

26 dB Bandwidth

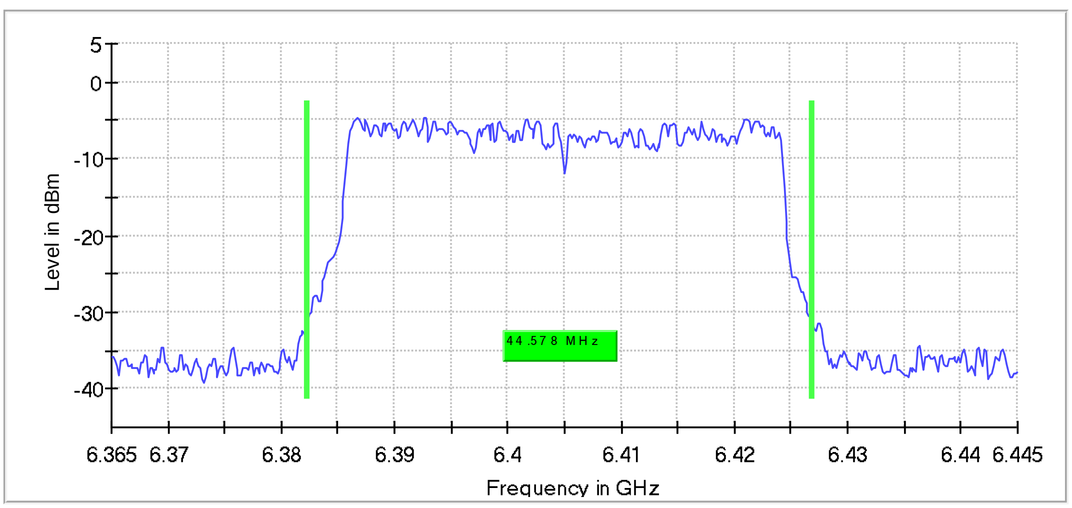
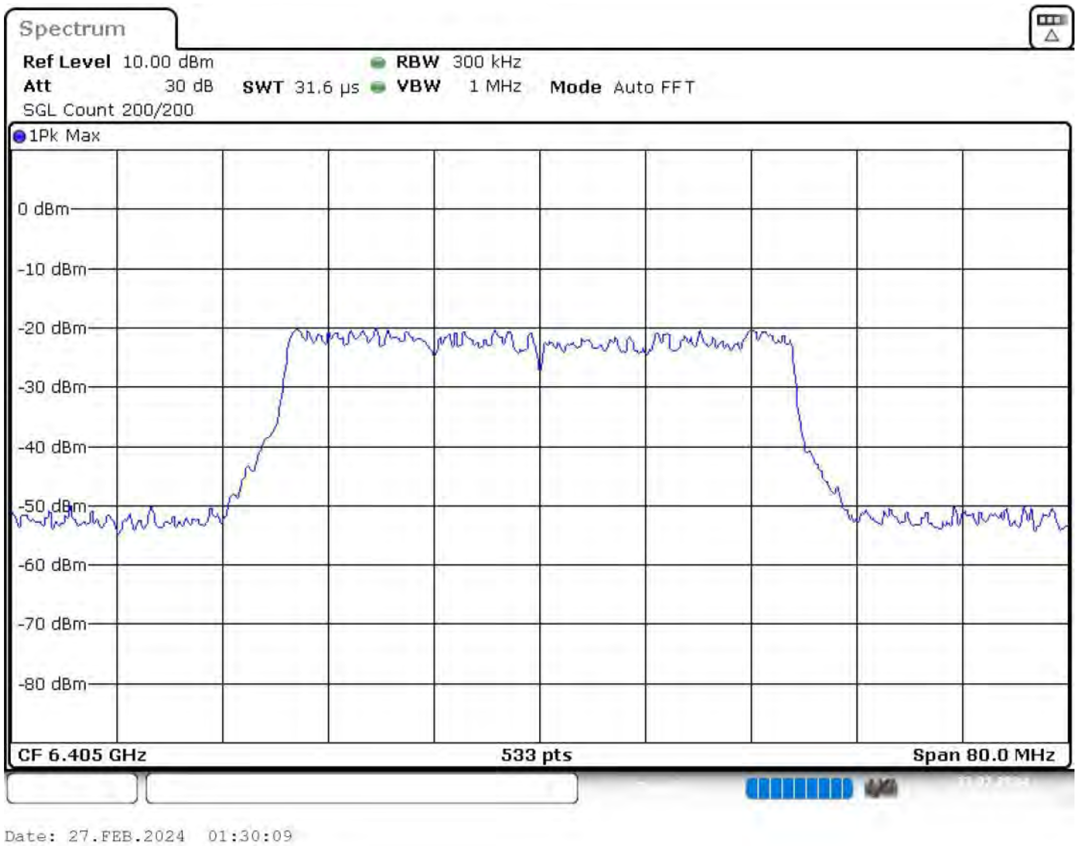


Figure 28: 26 dB Bandwidth


Spectrum
Ref Level 10.00 dBm
Att 30 dB
SWT 31.6 µs
RBW 300 kHz
VBW 1 MHz
Mode Auto FFT
SGL Count 200/200
1Pk Max
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
CF 6.405 GHz
533 pts
Span 80.0 MHz
Date: 27.FEB.2024 01:30:09

2.19 In-Band Emissions (6405 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 43: Result

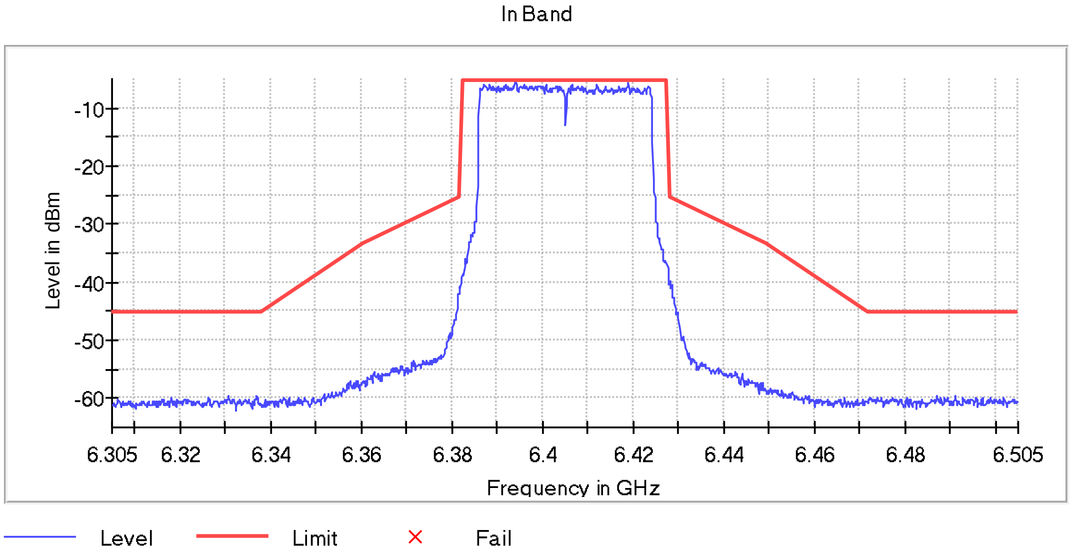
DUT Frequency	Result
MHz	
6405.000000	PASS

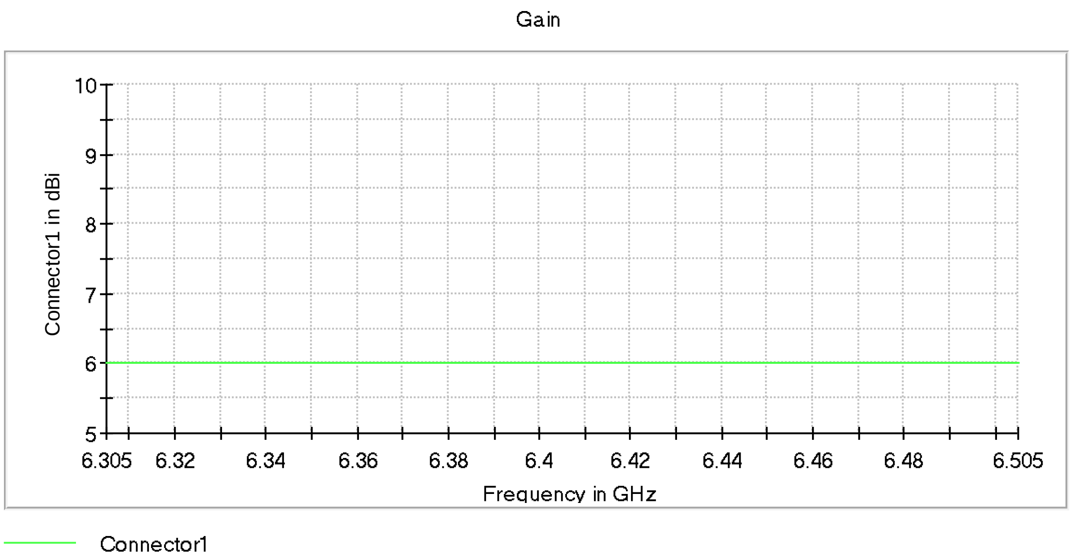
Table 44: Inband Peak

Frequency	Level
MHz	dBm
6394.047262	-5.3

Table 45: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6394.047262	-5.3	0.0	-5.3	PASS
6393.897224	-5.6	0.2	-5.3	PASS
6418.953488	-5.8	0.4	-5.3	PASS
6394.197299	-5.8	0.5	-5.3	PASS
6387.145536	-5.9	0.5	-5.3	PASS
6394.347337	-5.9	0.6	-5.3	PASS
6400.798950	-6.1	0.7	-5.3	PASS
6406.500375	-6.1	0.7	-5.3	PASS
6395.847712	-6.1	0.7	-5.3	PASS
6391.796699	-6.1	0.7	-5.3	PASS
6412.051763	-6.1	0.7	-5.3	PASS
6388.345836	-6.1	0.8	-5.3	PASS
6396.597899	-6.2	0.8	-5.3	PASS
6407.700675	-6.2	0.8	-5.3	PASS
6397.198050	-6.2	0.8	-5.3	PASS


In Band
Level in dBm
-10
-20
-30
-40
-50
-60
6.305
6.32
6.34
6.36
6.38
6.4
6.42
6.44
6.46
6.48
6.505
Frequency in GHz
Level
Limit
Fail


Gain
Connector1 in dBi
10
9
8
7
6
5
6.305
6.32
6.34
6.36
6.38
6.4
6.42
6.44
6.46
6.48
6.505
Frequency in GHz
Connector1

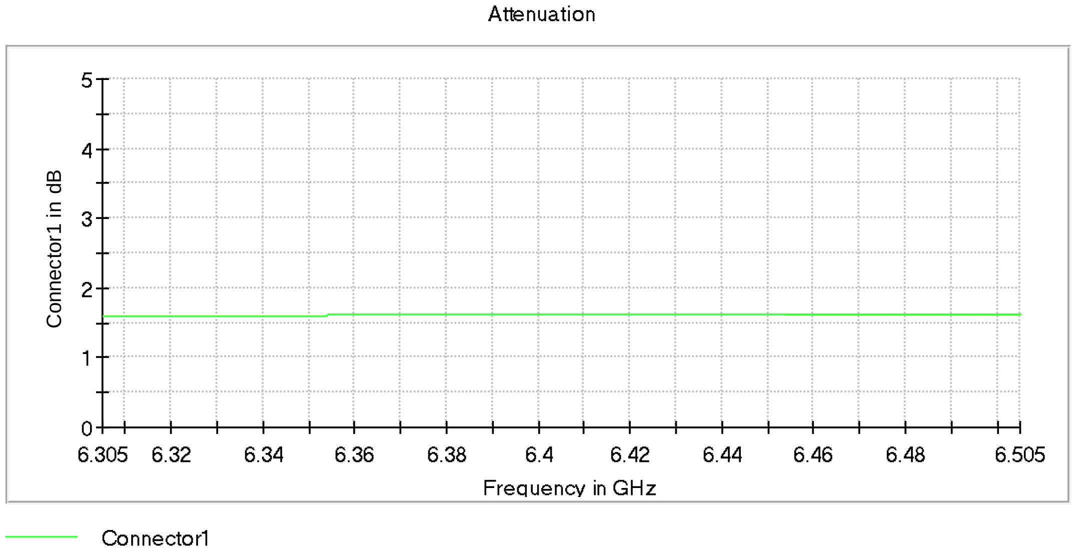


Figure 29: Attenuation
Figure 30: Gain
Figure 31: In Band

Table 46: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.30500 GHz	6.30500 GHz
Stop Frequency	6.50500 GHz	6.50500 GHz
Span	200.000 MHz	200.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	~ 900.000 kHz
SweepPoints	1333	~ 1333
Sweeptime	1.340 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.20 Occupied Channel Bandwidth 99% (6405 MHz, 40 MHz, 24.000 dBm)

Customized settings.

Table 47: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6405.000000	38.250000	---	320.000000	6385.875000	5925.000000	6424.125000	7125.000000	PASS

99 % Bandwidth

Figure 32: 99 % Bandwidth

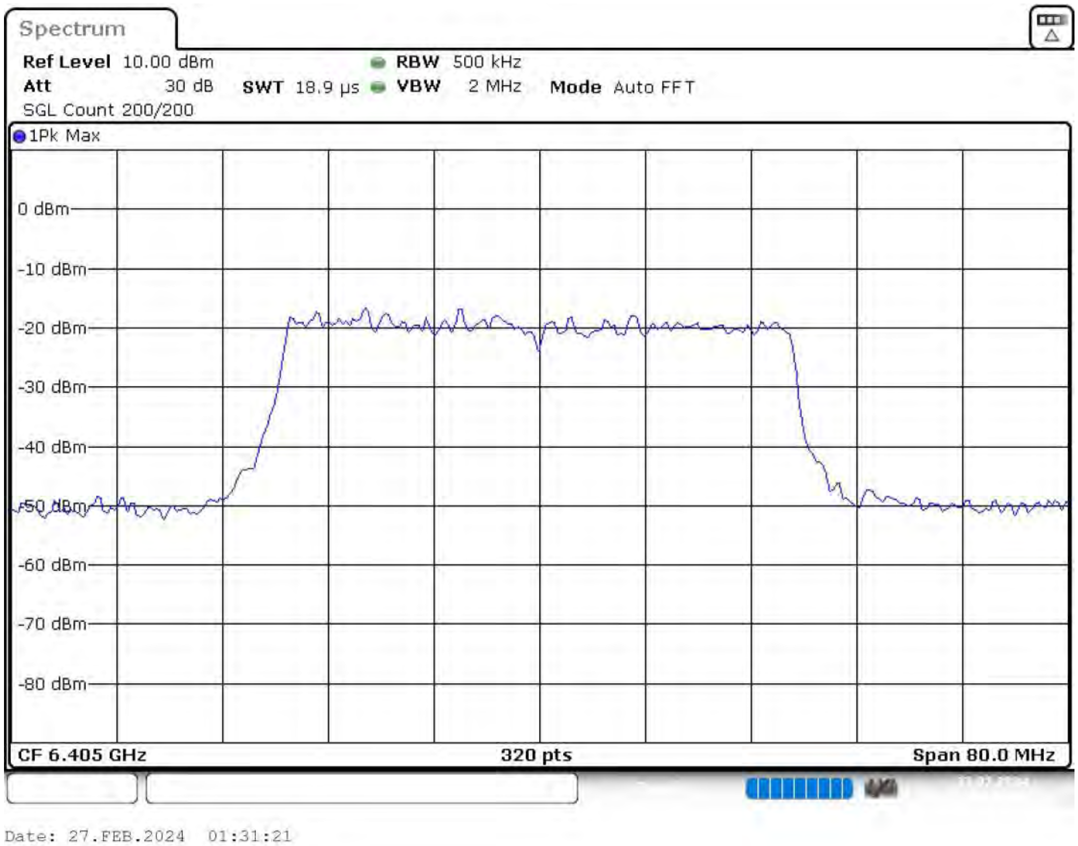


Table 48: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.36500 GHz	6.36500 GHz
Stop Frequency	6.44500 GHz	6.44500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.21 Emission Bandwidth 26 dB (5985 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 49: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
5985.000000	87.000000	---	320.000000	5942.750000	---	6029.750000	---	1.6	PASS

26 dB Bandwidth

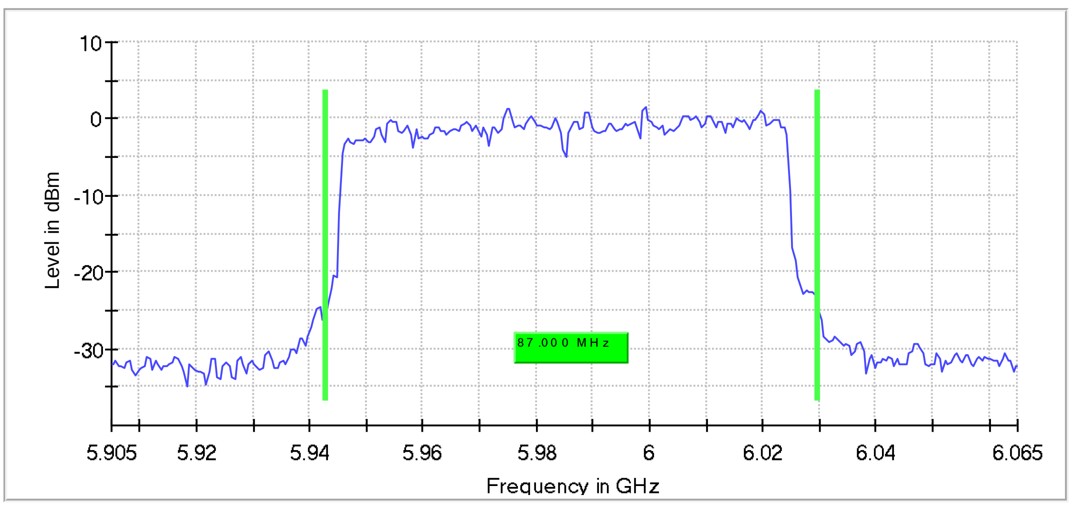
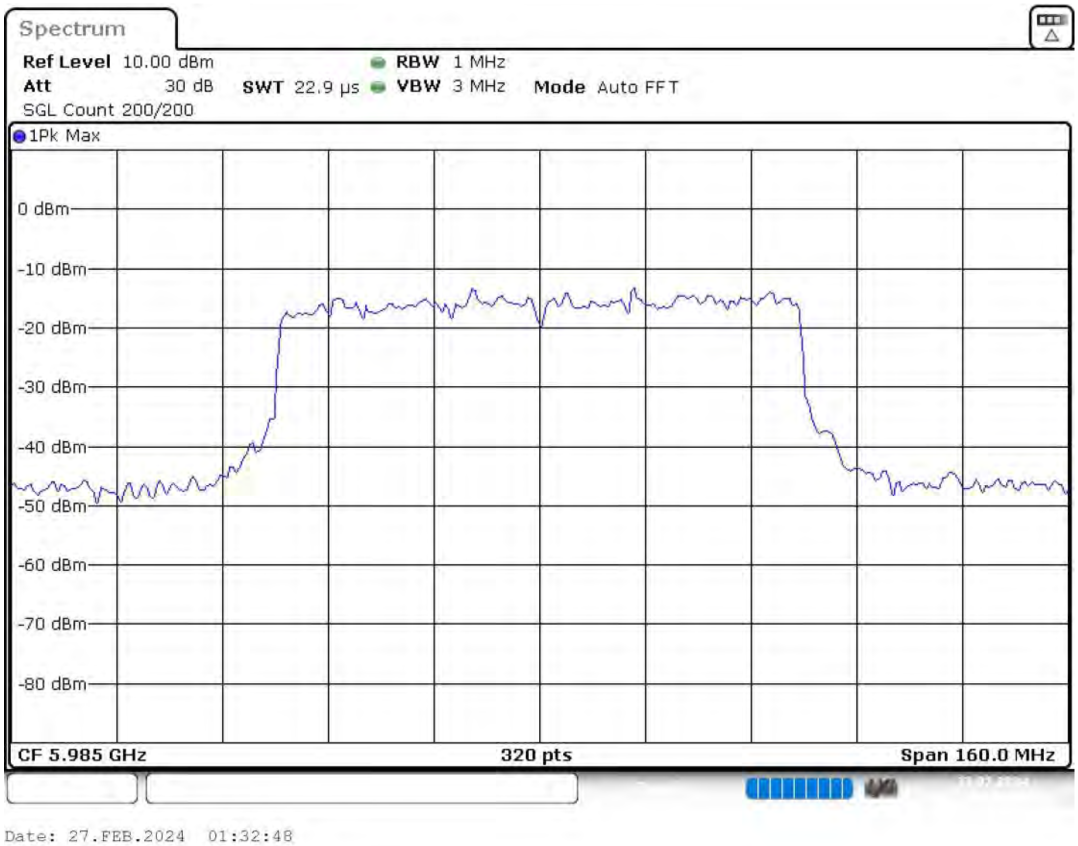


Figure 33: 26 dB Bandwidth


Spectrum
Ref Level 10.00 dBm
Att 30 dB
SWT 22.9 µs
RBW 1 MHz
VBW 3 MHz
Mode Auto FFT
SGL Count 200/200
1Pk Max
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
CF 5.985 GHz
320 pts
Span 160.0 MHz
Date: 27.FEB.2024 01:32:48

2.22 In-Band Emissions (5985 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 50: Result

DUT Frequency	Result
MHz	
5985.000000	PASS

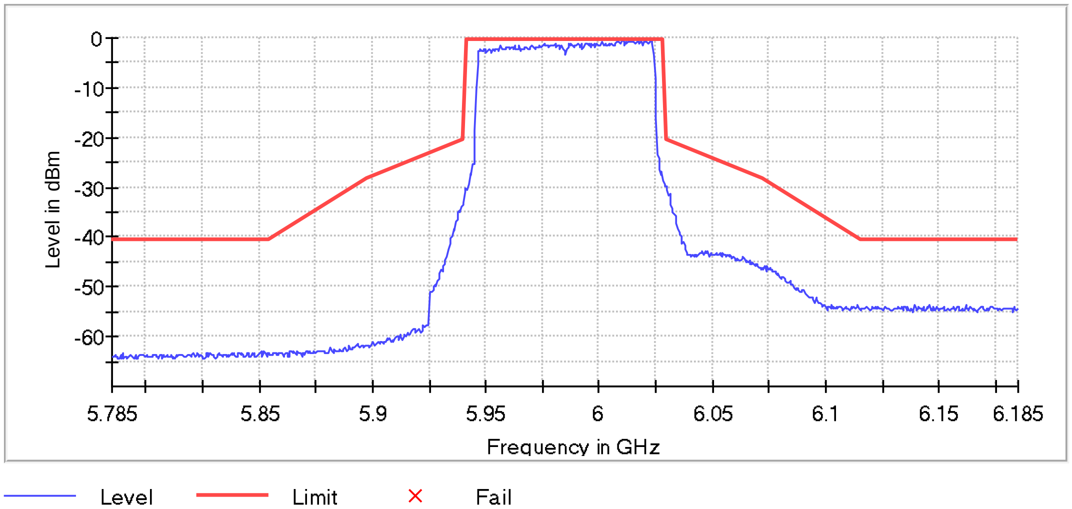
Table 51: Inband Peak

Frequency	Level
MHz	dBm
6023.250000	-0.4

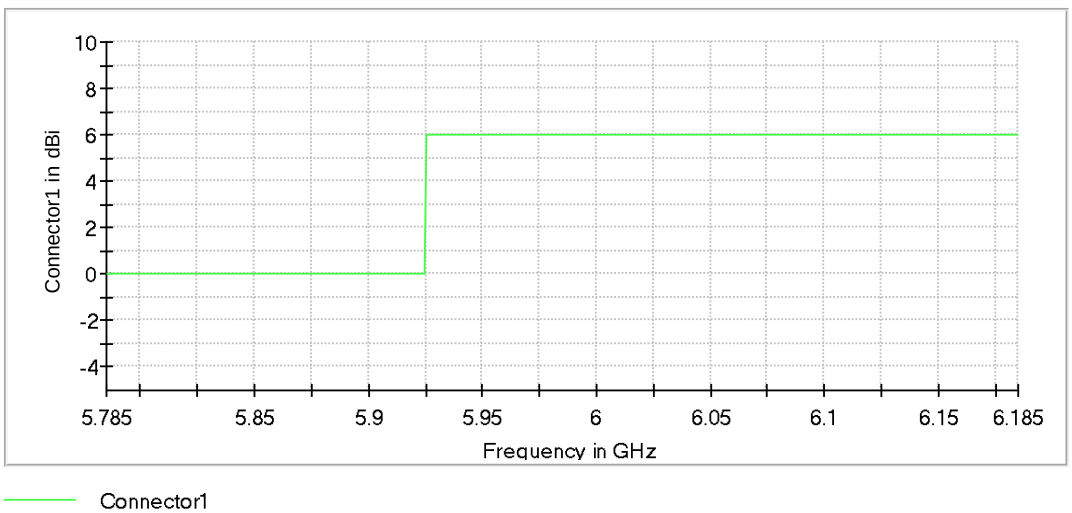
Table 52: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6023.250000	-0.4	0.0	-0.4	PASS
6022.750000	-0.4	0.0	-0.4	PASS
6010.250000	-0.5	0.0	-0.4	PASS
6018.750000	-0.5	0.1	-0.4	PASS
6019.750000	-0.5	0.1	-0.4	PASS
6012.750000	-0.6	0.2	-0.4	PASS
6011.750000	-0.6	0.2	-0.4	PASS
6008.750000	-0.6	0.2	-0.4	PASS
6021.250000	-0.6	0.2	-0.4	PASS
6013.250000	-0.7	0.3	-0.4	PASS
6013.750000	-0.7	0.3	-0.4	PASS
6020.250000	-0.7	0.3	-0.4	PASS
6014.750000	-0.7	0.3	-0.4	PASS
6016.750000	-0.8	0.4	-0.4	PASS
6015.250000	-0.8	0.4	-0.4	PASS

In Band


0
-10
-20
-30
-40
-50
-60
Level in dBm
5.785
5.85
5.9
5.95
6
6.05
6.1
6.15
6.185
Frequency in GHz
Level
Limit
Fail

Gain


10
8
6
4
2
0
-2
-4
Connector1 in dBi
5.785
5.85
5.9
5.95
6
6.05
6.1
6.15
6.185
Frequency in GHz
Connector1

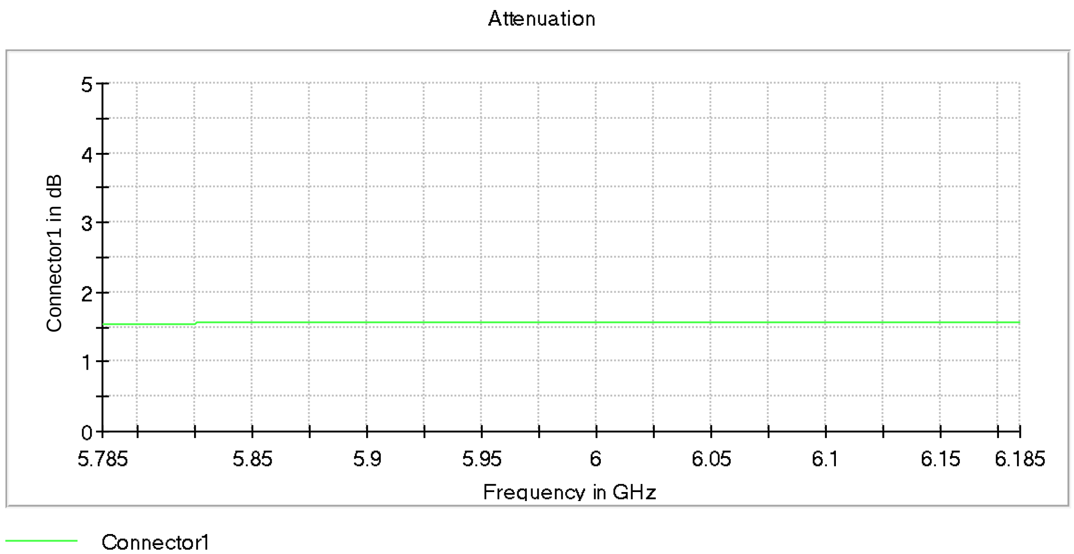


Figure 34: Attenuation

Figure 35: Gain

Figure 36: In Band

Table 53: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.78500 GHz	5.78500 GHz
Stop Frequency	6.18500 GHz	6.18500 GHz
Span	400.000 MHz	400.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.23 Occupied Channel Bandwidth 99% (5985 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 54: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
5985.000000	78.000000	---	320.000000	5946.250000	5925.000000	6024.250000	7125.000000	PASS

99 % Bandwidth

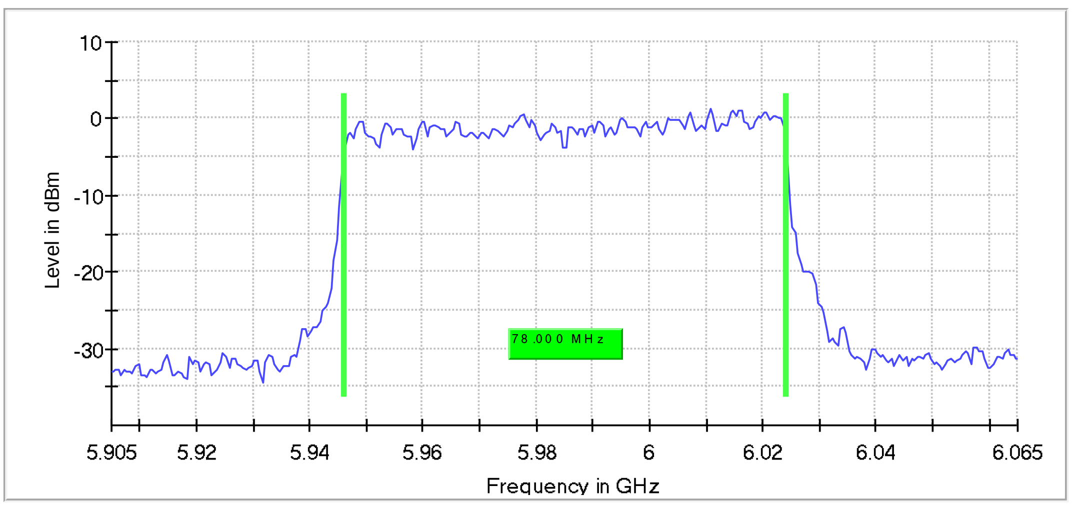


Figure 37: 99 % Bandwidth

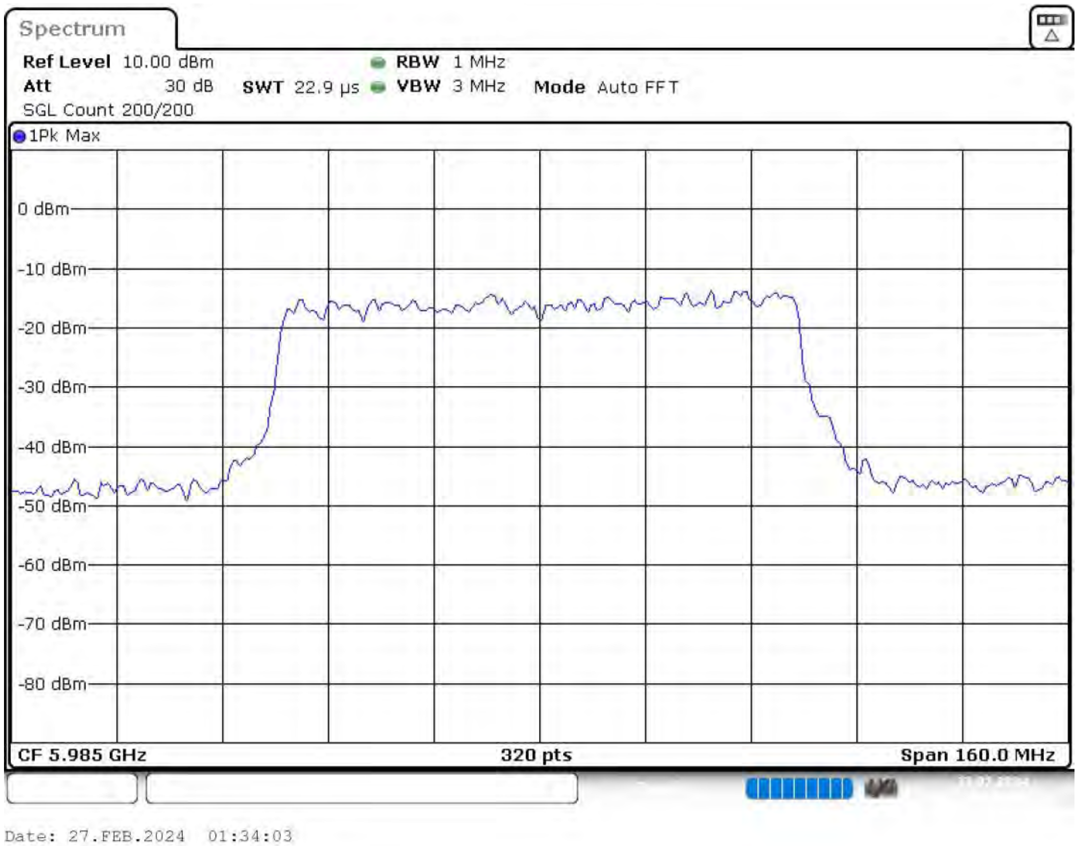


Table 55: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.90500 GHz	5.90500 GHz
Stop Frequency	6.06500 GHz	6.06500 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	22.875 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.24 Emission Bandwidth 26 dB (6225 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 56: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6225.000000	88.000000	---	320.000000	6180.750000	---	6268.750000	---	2.2	PASS

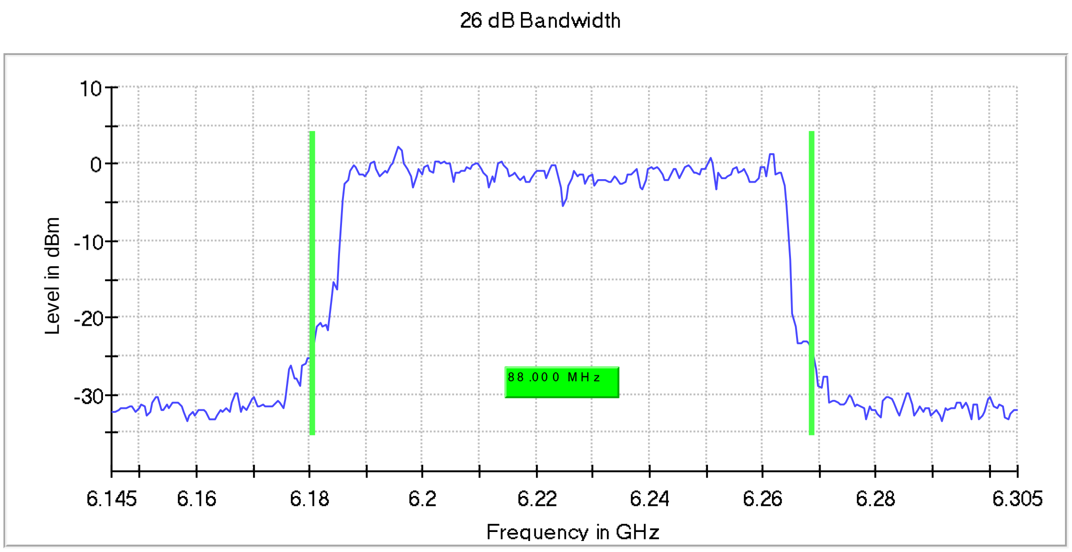
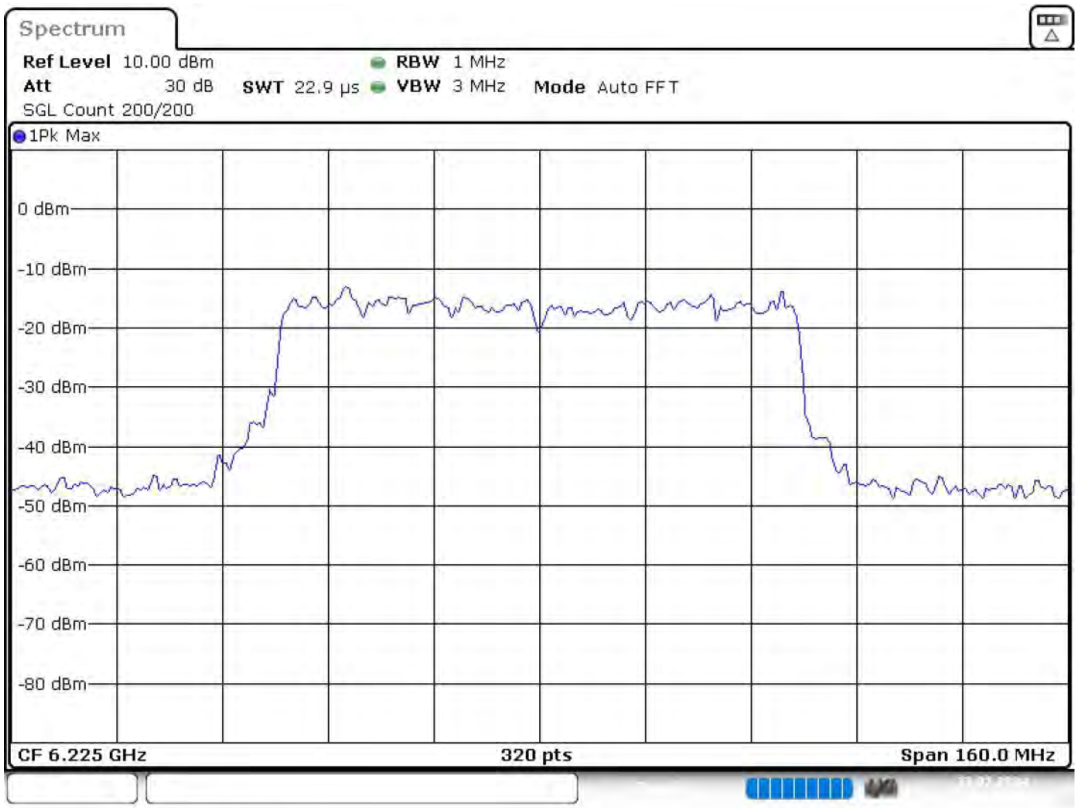


Figure 38: 26 dB Bandwidth



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2.25 In-Band Emissions (6225 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 57: Result

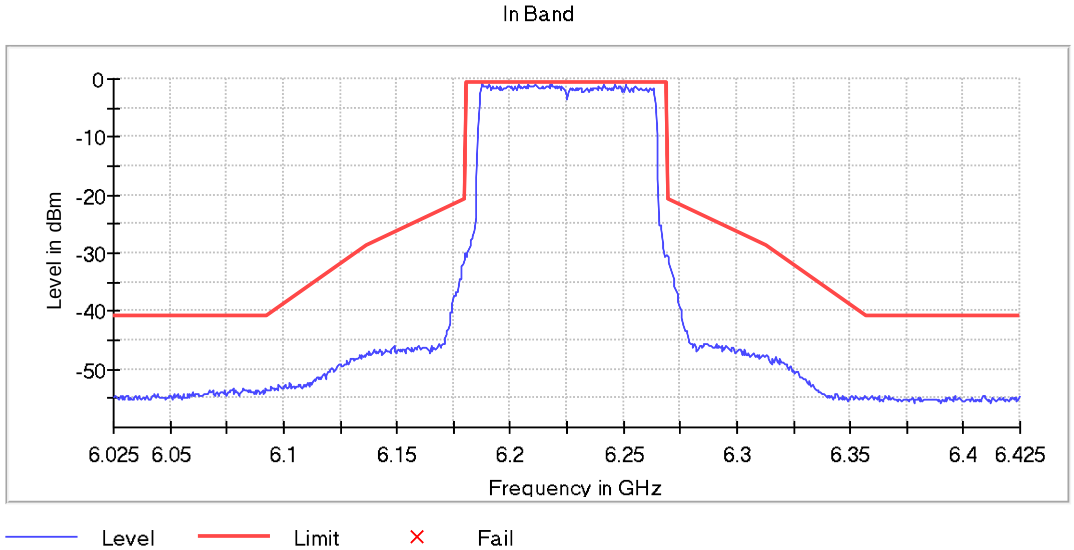
DUT Frequency	Result
MHz	
6225.000000	PASS

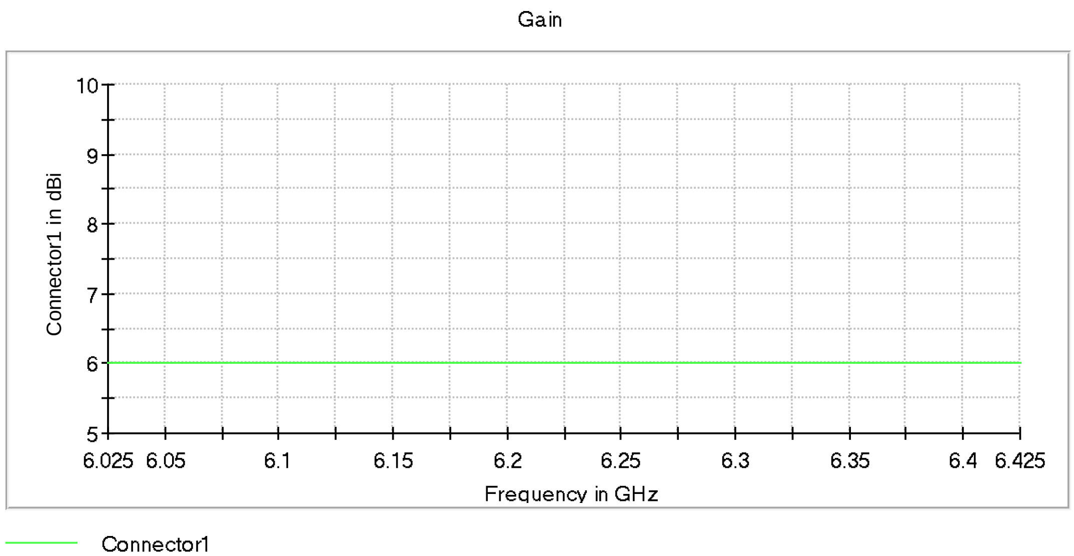
Table 58: Inband Peak

Frequency	Level
MHz	dBm
6187.750000	-0.8

Table 59: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6187.750000	-0.8	0.0	-0.8	PASS
6211.250000	-0.9	0.1	-0.8	PASS
6203.750000	-0.9	0.2	-0.8	PASS
6208.250000	-1.0	0.2	-0.8	PASS
6190.750000	-1.0	0.3	-0.8	PASS
6246.250000	-1.0	0.3	-0.8	PASS
6210.750000	-1.1	0.3	-0.8	PASS
6250.750000	-1.1	0.3	-0.8	PASS
6217.750000	-1.1	0.3	-0.8	PASS
6218.250000	-1.1	0.3	-0.8	PASS
6241.250000	-1.1	0.3	-0.8	PASS
6189.750000	-1.1	0.4	-0.8	PASS
6189.250000	-1.1	0.4	-0.8	PASS
6206.250000	-1.1	0.4	-0.8	PASS
6216.250000	-1.2	0.4	-0.8	PASS





PROPRIETARY

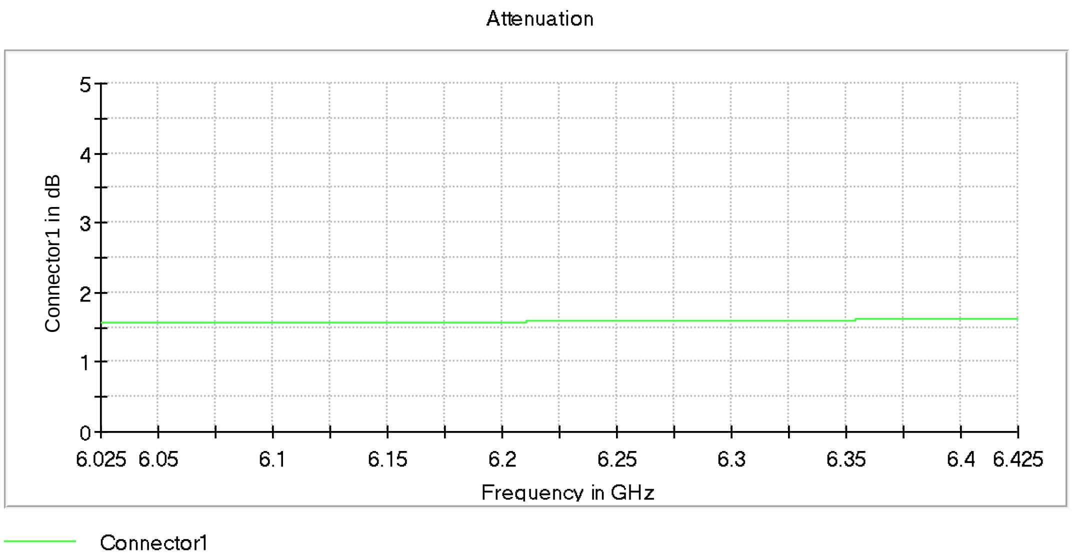


Figure 39: Attenuation

Figure 40: Gain

Figure 41: In Band

Table 60: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.02500 GHz	6.02500 GHz
Stop Frequency	6.42500 GHz	6.42500 GHz
Span	400.000 MHz	400.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.26 Occupied Channel Bandwidth 99% (6225 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 61: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6225.000000	78.000000	---	320.000000	6185.750000	5925.000000	6263.750000	7125.000000	PASS

99 % Bandwidth

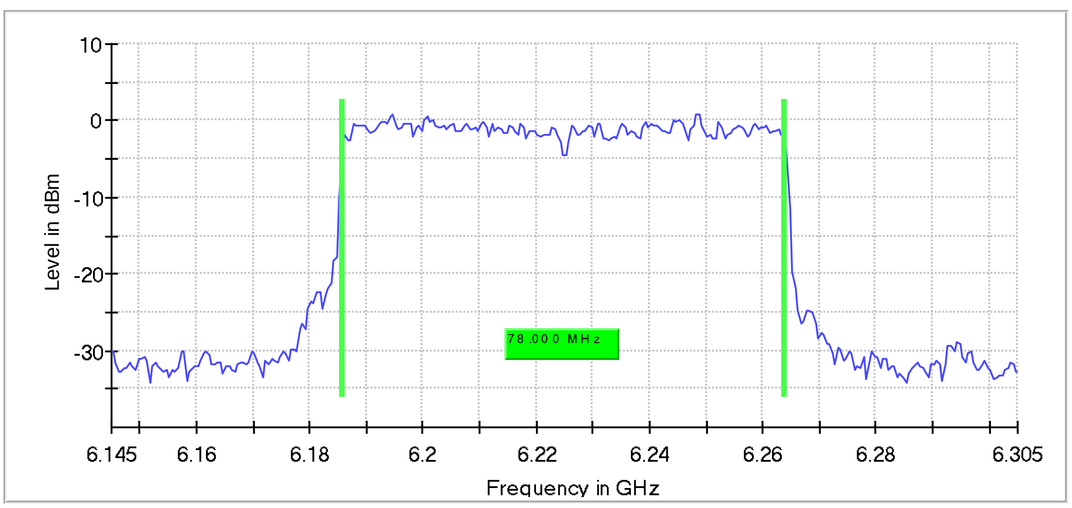


Figure 42: 99 % Bandwidth

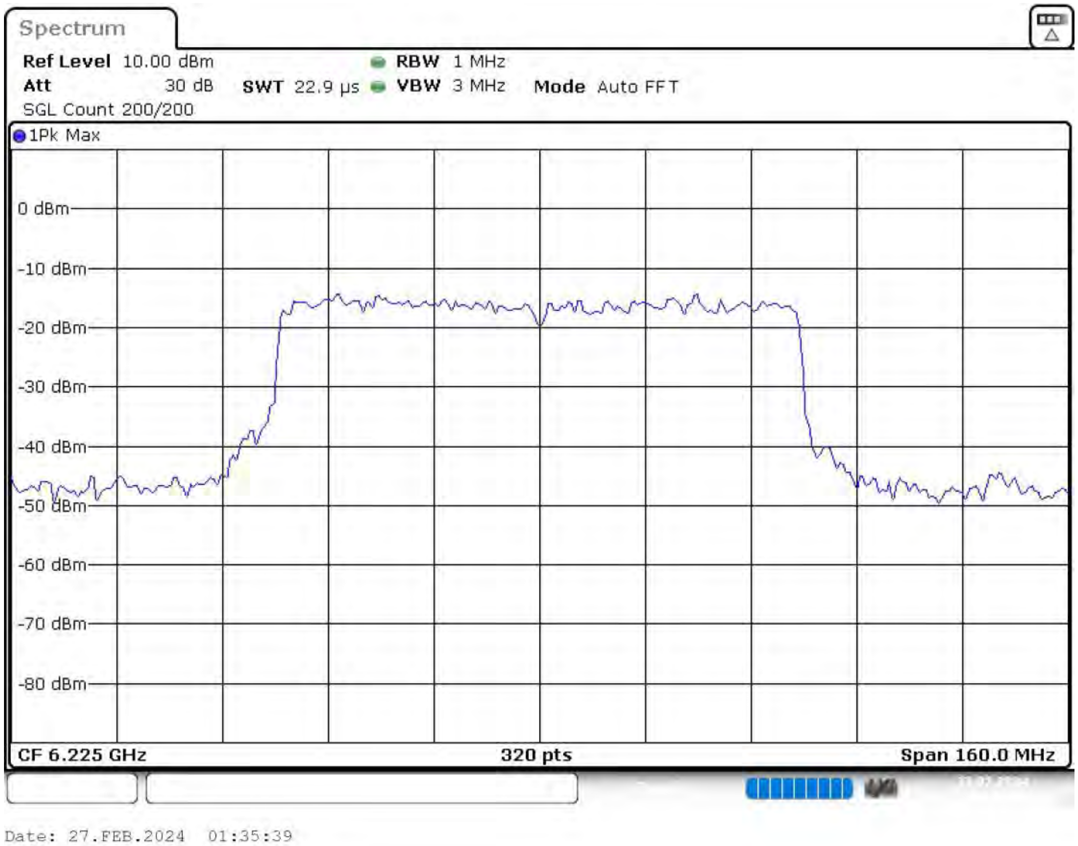


Table 62: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.14500 GHz	6.14500 GHz
Stop Frequency	6.30500 GHz	6.30500 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	22.875 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.27 Emission Bandwidth 26 dB (6385 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 63: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6385.000000	91.000000	---	320.000000	6338.750000	---	6429.750000	---	2.3	PASS

26 dB Bandwidth

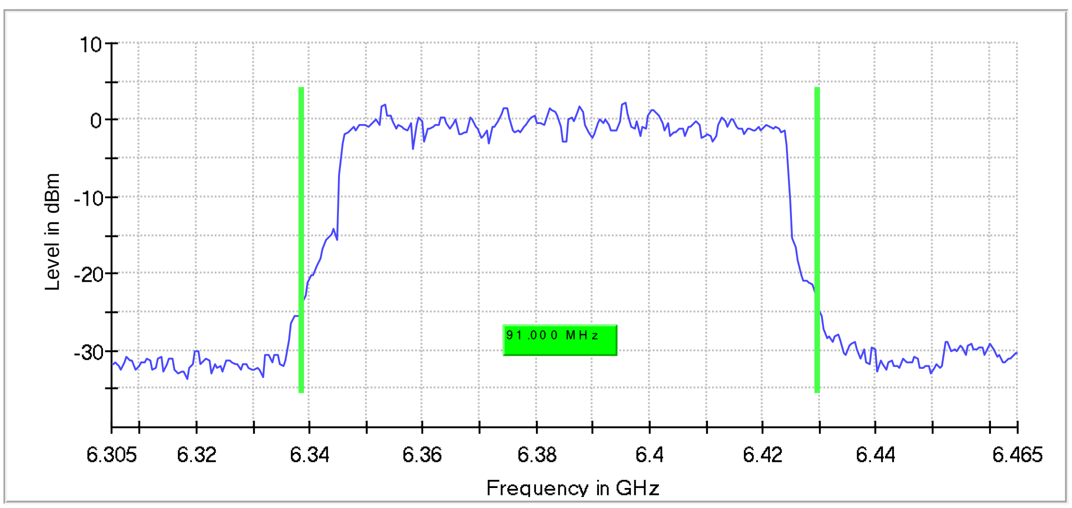
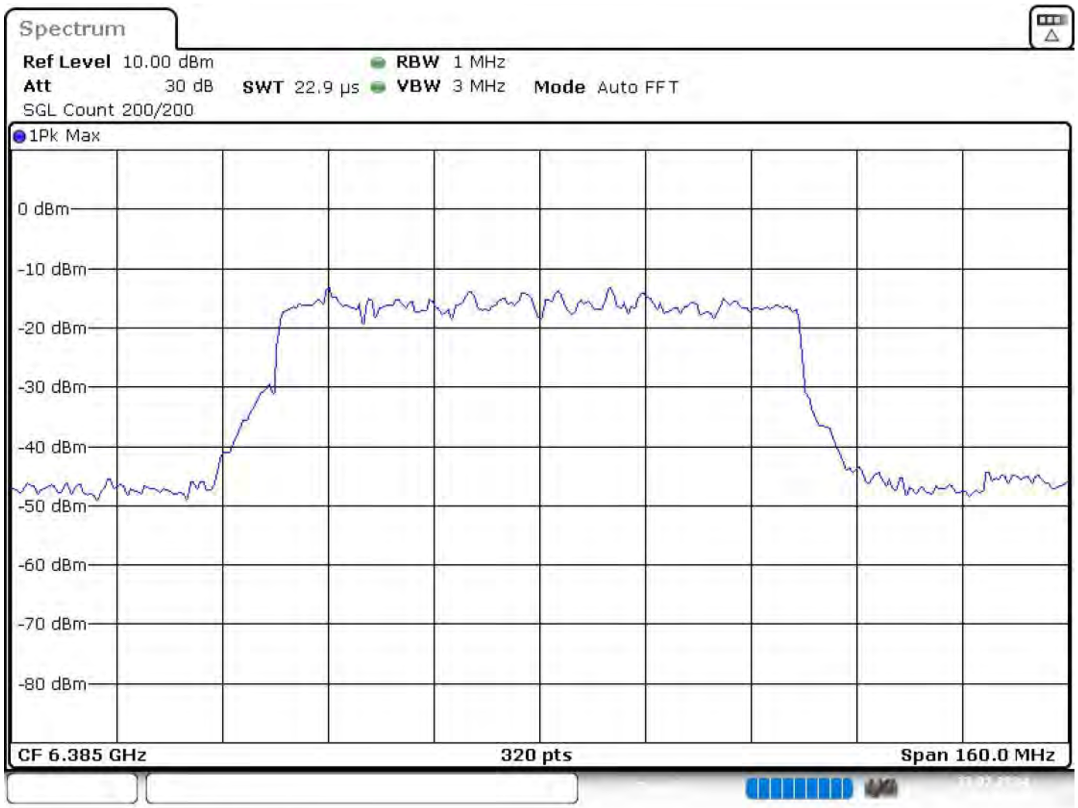


Figure 43: 26 dB Bandwidth



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2.28 In-Band Emissions (6385 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 64: Result

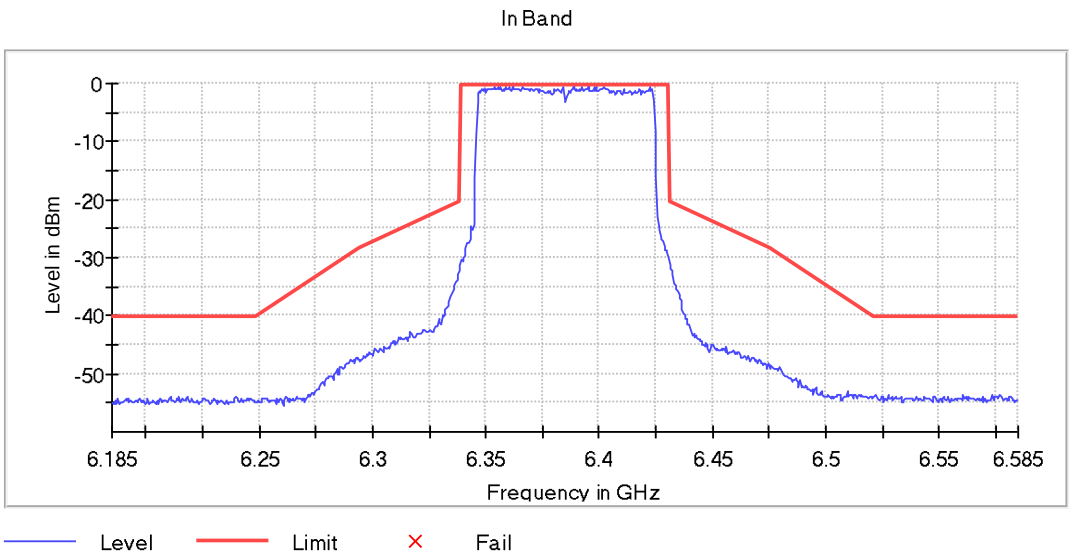
DUT Frequency	Result
MHz	
6385.000000	PASS

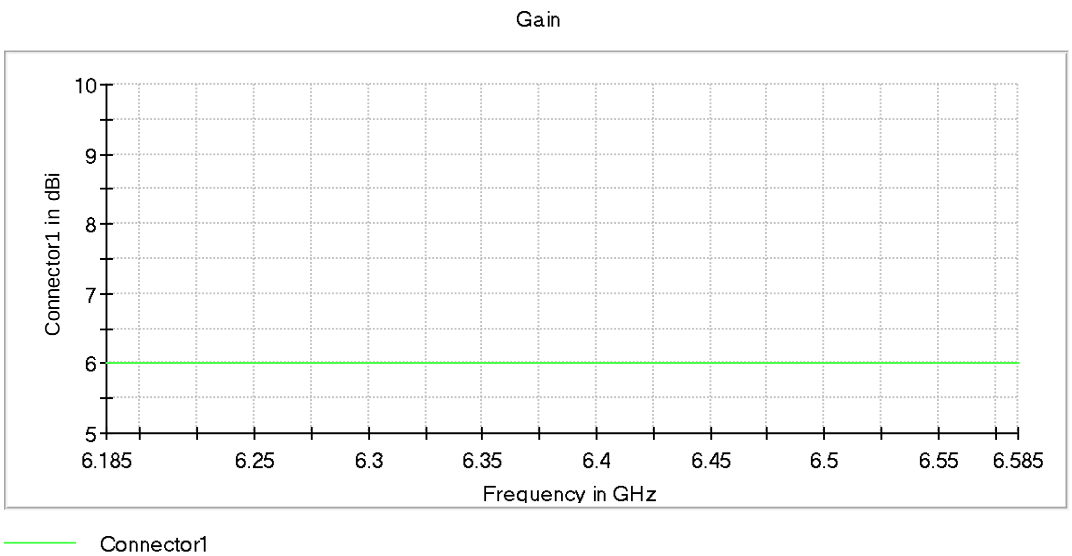
Table 65: Inband Peak

Frequency	Level
MHz	dBm
6361.750000	-0.3

Table 66: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6361.750000	-0.3	0.0	-0.3	PASS
6395.250000	-0.4	0.2	-0.3	PASS
6388.750000	-0.5	0.2	-0.3	PASS
6366.250000	-0.5	0.2	-0.3	PASS
6360.250000	-0.5	0.2	-0.3	PASS
6397.750000	-0.6	0.3	-0.3	PASS
6355.250000	-0.6	0.4	-0.3	PASS
6398.750000	-0.7	0.4	-0.3	PASS
6422.250000	-0.7	0.4	-0.3	PASS
6384.250000	-0.7	0.4	-0.3	PASS
6402.250000	-0.7	0.4	-0.3	PASS
6353.750000	-0.8	0.5	-0.3	PASS
6358.750000	-0.8	0.5	-0.3	PASS
6401.750000	-0.8	0.5	-0.3	PASS
6356.750000	-0.8	0.5	-0.3	PASS


In Band
Level in dBm
0
-10
-20
-30
-40
-50
6.185
6.25
6.3
6.35
6.4
6.45
6.5
6.55
6.585
Frequency in GHz
Level
Limit
Fail


Gain
Connector1 in dBi
10
9
8
7
6
5
6.185
6.25
6.3
6.35
6.4
6.45
6.5
6.55
6.585
Frequency in GHz
Connector1

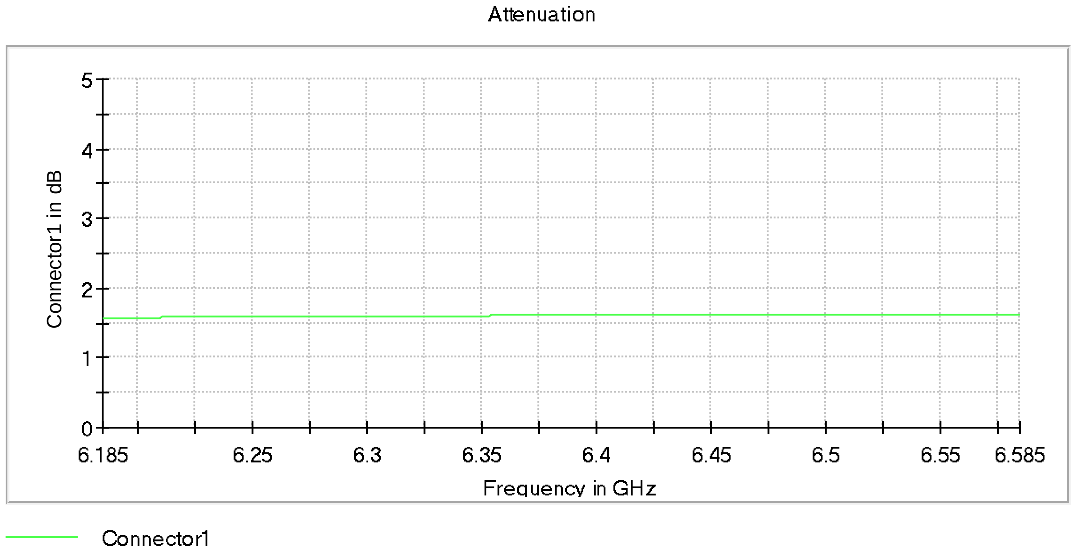


Figure 44: Attenuation

Figure 45: Gain

Figure 46: In Band

Table 67: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.18500 GHz	6.18500 GHz
Stop Frequency	6.58500 GHz	6.58500 GHz
Span	400.000 MHz	400.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.29 Occupied Channel Bandwidth 99% (6385 MHz, 80 MHz, 24.000 dBm)

Customized settings.

Table 68: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6385.000000	77.500000	---	320.000000	6346.250000	5925.000000	6423.750000	7125.000000	PASS

99 % Bandwidth

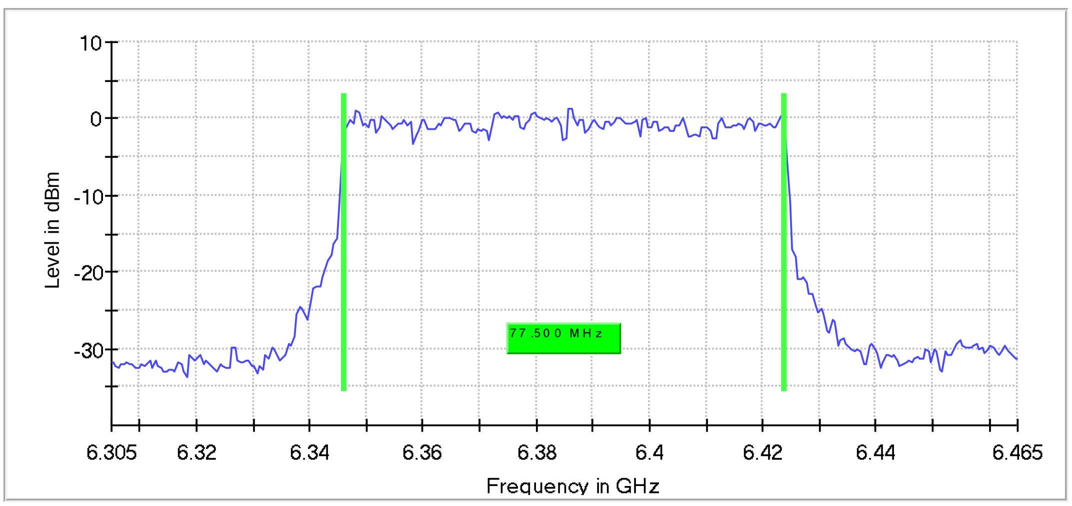


Figure 47: 99 % Bandwidth

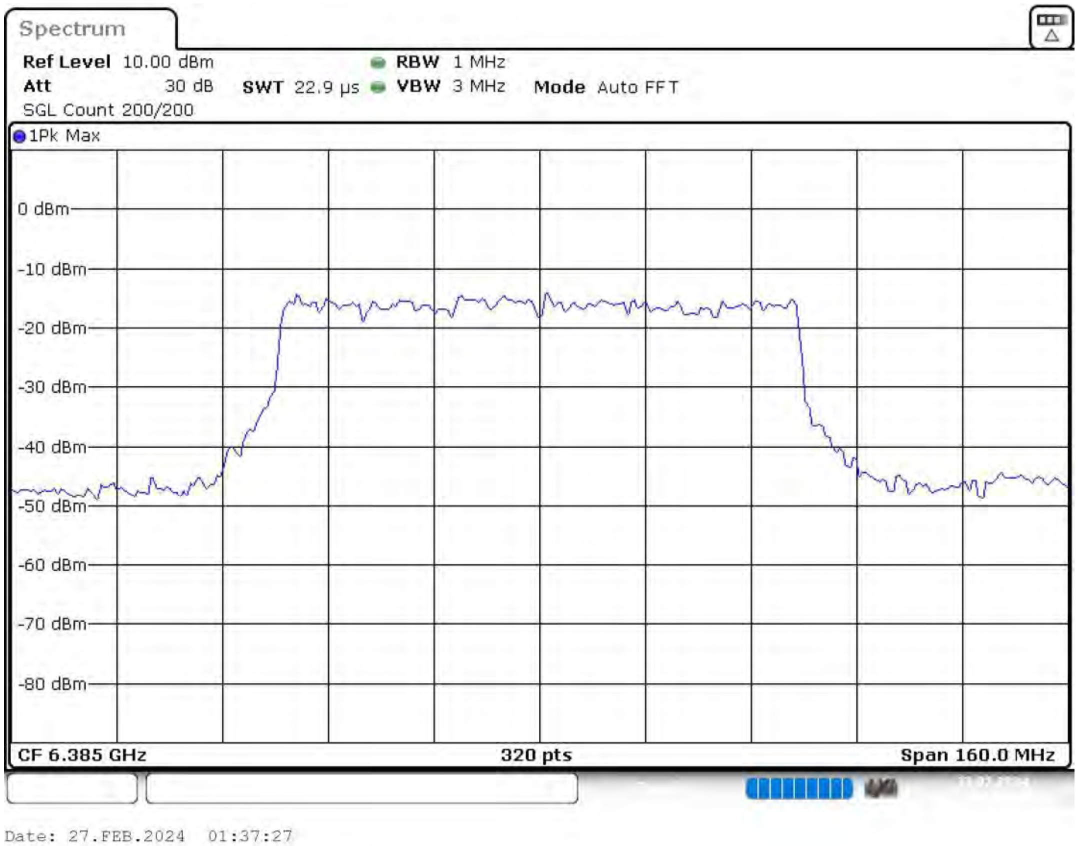


Table 69: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.30500 GHz	6.30500 GHz
Stop Frequency	6.46500 GHz	6.46500 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	22.875 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.30 Emission Bandwidth 26 dB (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 70: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6025.000000	169.000000	---	320.000000	5939.500000	---	6108.500000	---	5.6	PASS

26 dB Bandwidth

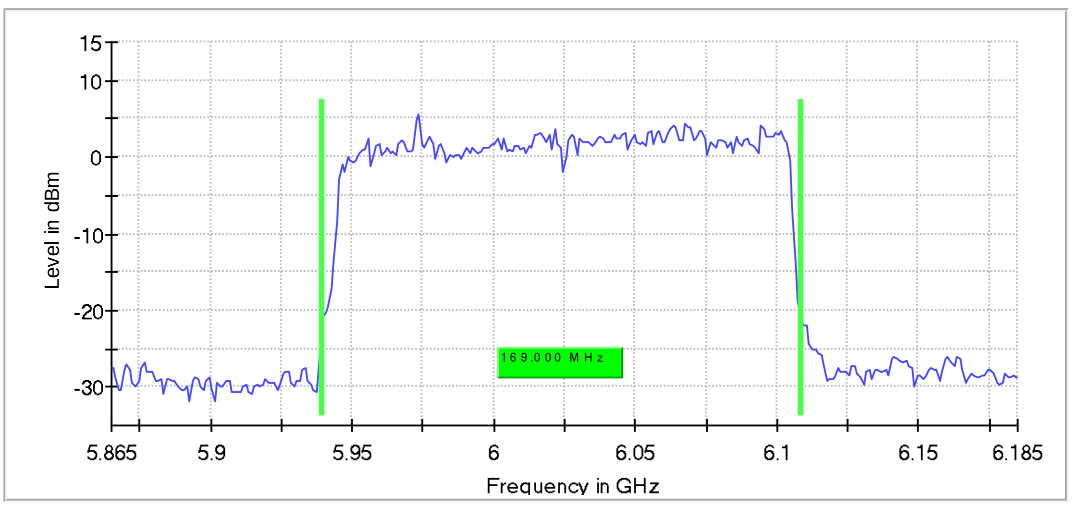
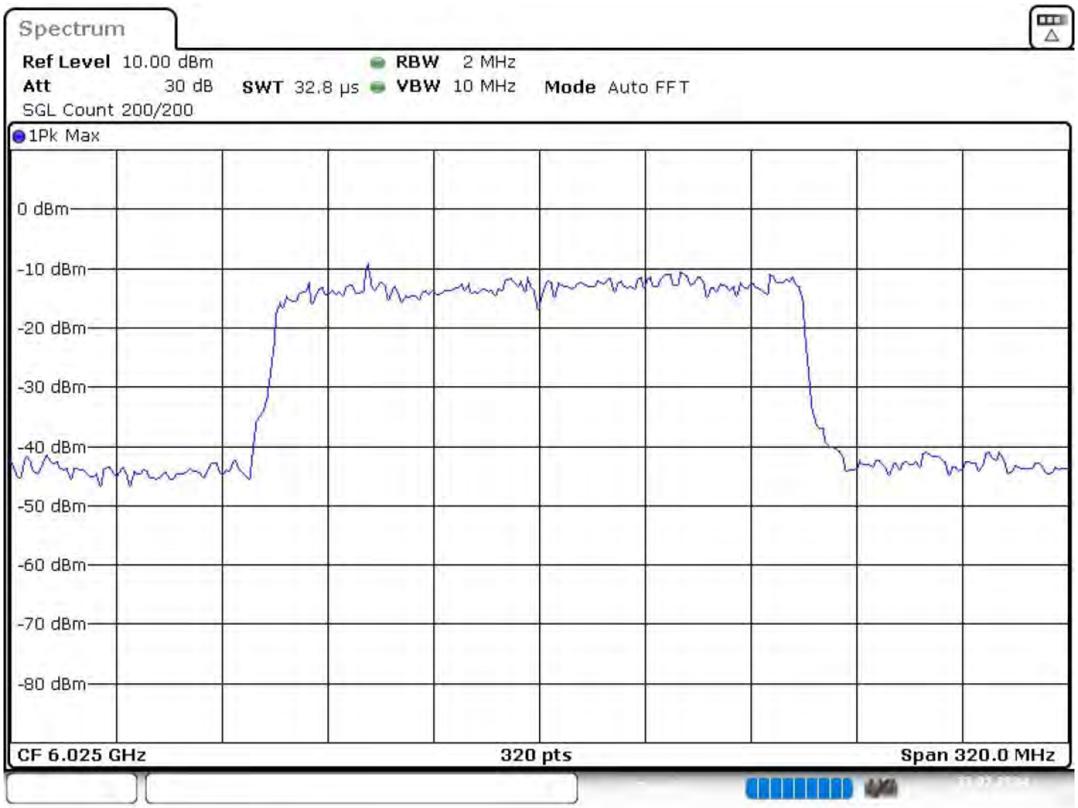


Figure 48: 26 dB Bandwidth



Date: 27.FEB.2024 01:37:49

2.31 In-Band Emissions (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 71: Result

DUT Frequency	Result
MHz	
6025.000000	PASS

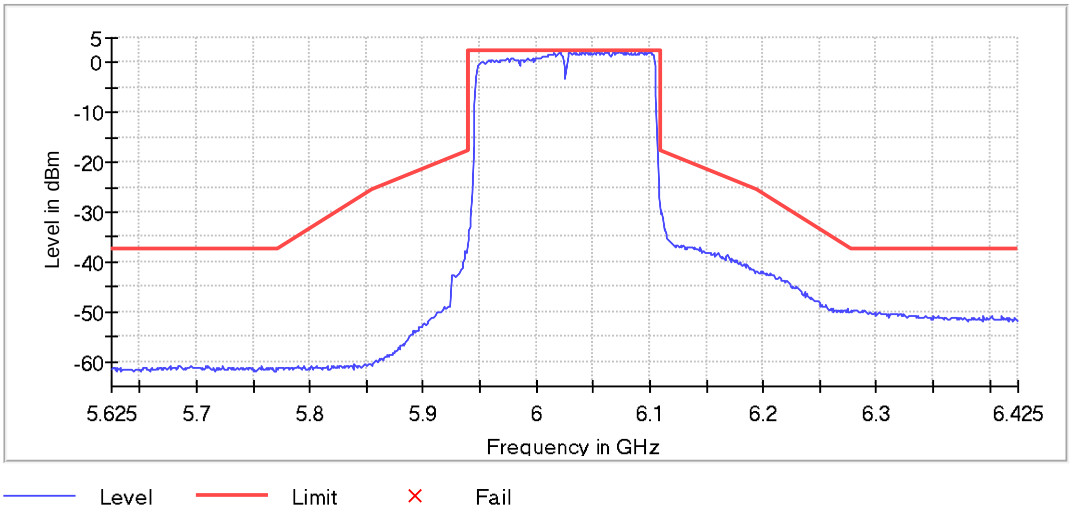
Table 72: Inband Peak

Frequency	Level
MHz	dBm
6069.500000	6.1

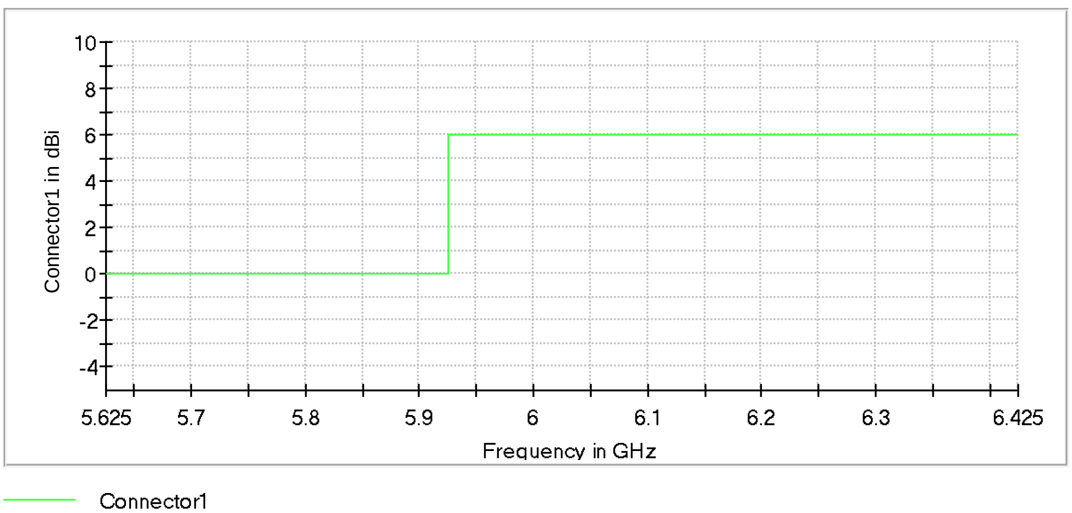
Table 73: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6069.500000	6.1	0.0	6.1	PASS
6071.500000	6.0	0.1	6.1	PASS
6070.500000	6.0	0.1	6.1	PASS
6101.500000	5.9	0.2	6.1	PASS
6093.500000	5.9	0.2	6.1	PASS
6032.500000	5.9	0.2	6.1	PASS
6061.500000	5.9	0.2	6.1	PASS
6097.500000	5.8	0.2	6.1	PASS
6036.500000	5.8	0.2	6.1	PASS
6092.500000	5.8	0.3	6.1	PASS
6053.500000	5.8	0.3	6.1	PASS
6080.500000	5.8	0.3	6.1	PASS
6054.500000	5.8	0.3	6.1	PASS
6084.500000	5.8	0.3	6.1	PASS
6063.500000	5.8	0.3	6.1	PASS

In Band


5
0
-10
-20
-30
-40
-50
-60
Level in dBm
5.625
5.7
5.8
5.9
6
6.1
6.2
6.3
6.425
Frequency in GHz
Level
Limit
Fail

Gain


10
8
6
4
2
0
-2
-4
Connector1 in dBi
5.625
5.7
5.8
5.9
6
6.1
6.2
6.3
6.425
Frequency in GHz
Connector1

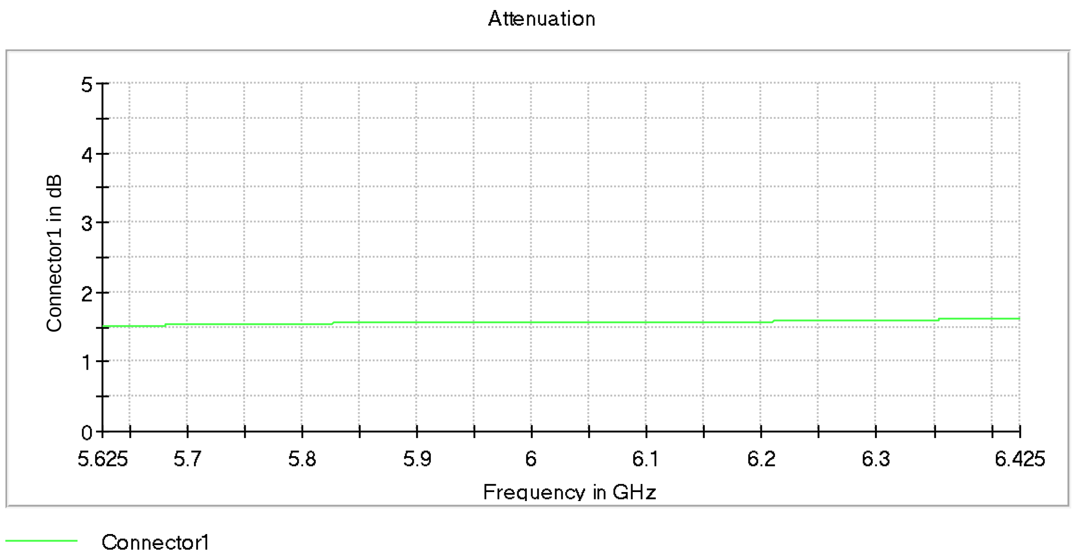


Figure 49: Attenuation

Figure 50: Gain

Figure 51: In Band

Table 74: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.62500 GHz	5.62500 GHz
Stop Frequency	6.42500 GHz	6.42500 GHz
Span	800.000 MHz	800.000 MHz
RBW	2.000 MHz	~ 1.600 MHz
VBW	10.000 MHz	~ 8.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.32 Occupied Channel Bandwidth 99% (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 75: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6025.000000	158.000000	---	320.000000	5946.500000	5925.000000	6104.500000	7125.000000	PASS

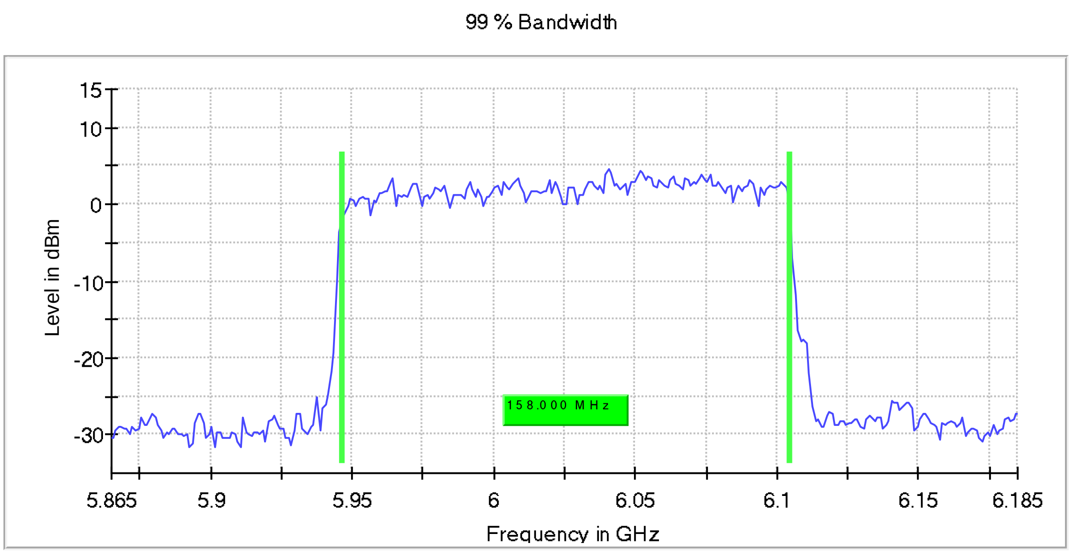


Figure 52: 99 % Bandwidth

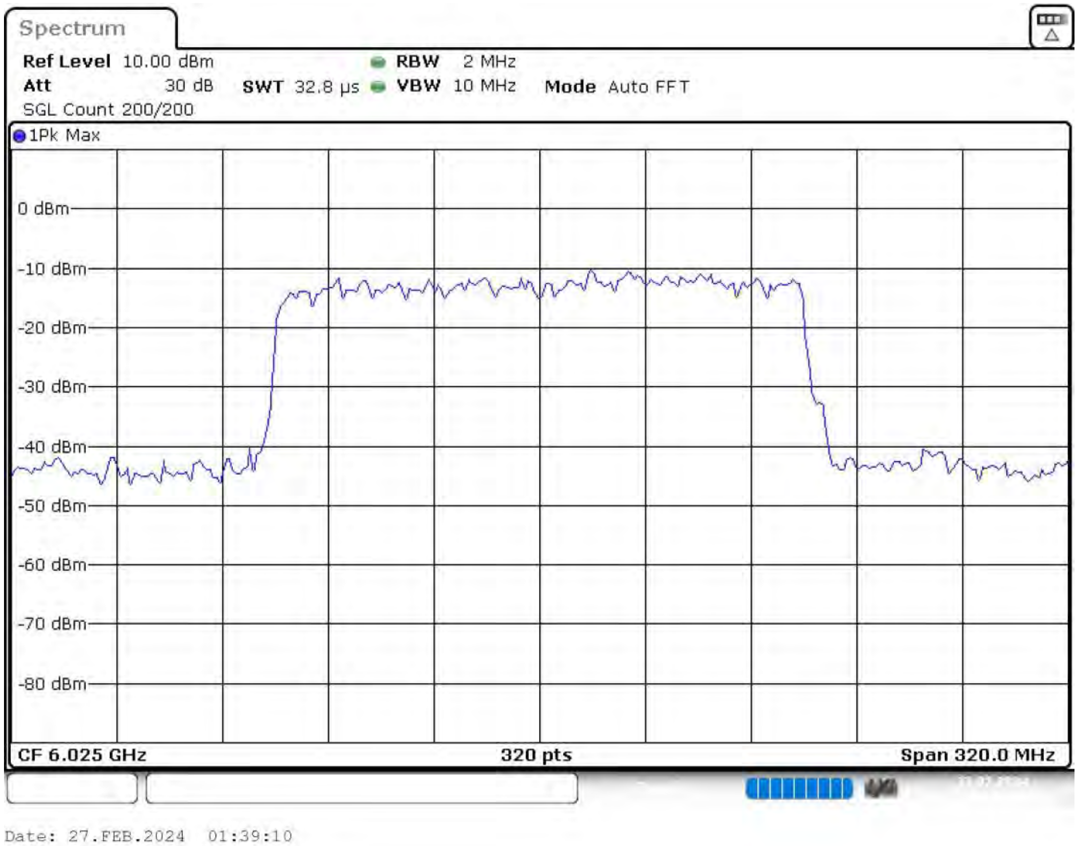


Table 76: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.86500 GHz	5.86500 GHz
Stop Frequency	6.18500 GHz	6.18500 GHz
Span	320.000 MHz	320.000 MHz
RBW	2.000 MHz	>= 1.600 MHz
VBW	10.000 MHz	>= 6.000 MHz
SweepPoints	320	~ 320
Sweeptime	32.813 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.33 Tx Spurious Emission (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 77: Result

DUT Frequency	Result
MHz	
6025.000000	PASS

Table 78: Final measurements

Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

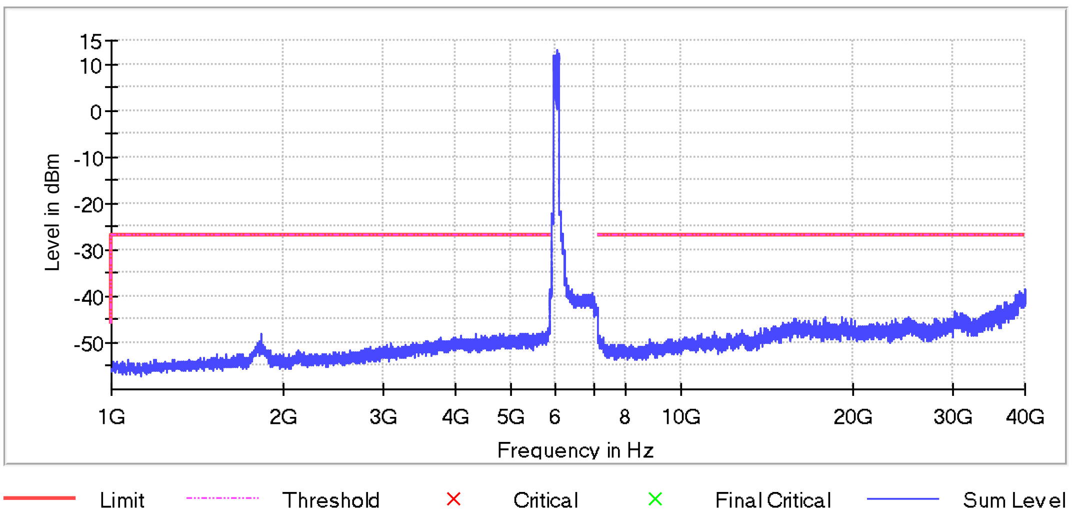
Table 79: Pre Measurements

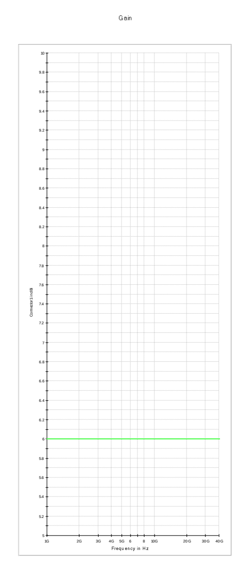
Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5923.250000	-33.5	6.5	-27.0
5917.250000	-33.6	6.6	-27.0
5920.250000	-33.7	6.7	-27.0
5907.250000	-34.0	7.0	-27.0
5923.750000	-34.0	7.0	-27.0
5911.750000	-34.0	7.0	-27.0
5922.250000	-34.1	7.1	-27.0
5917.750000	-34.1	7.1	-27.0
5924.750000	-34.1	7.1	-27.0
5916.250000	-34.2	7.2	-27.0
5919.250000	-34.3	7.3	-27.0
5924.250000	-34.3	7.3	-27.0
5918.250000	-34.3	7.3	-27.0
5921.750000	-34.4	7.4	-27.0
5921.250000	-34.6	7.6	-27.0

Table 80: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	2	2
5925.000000	7125.000000	2	2
7125.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Spurious





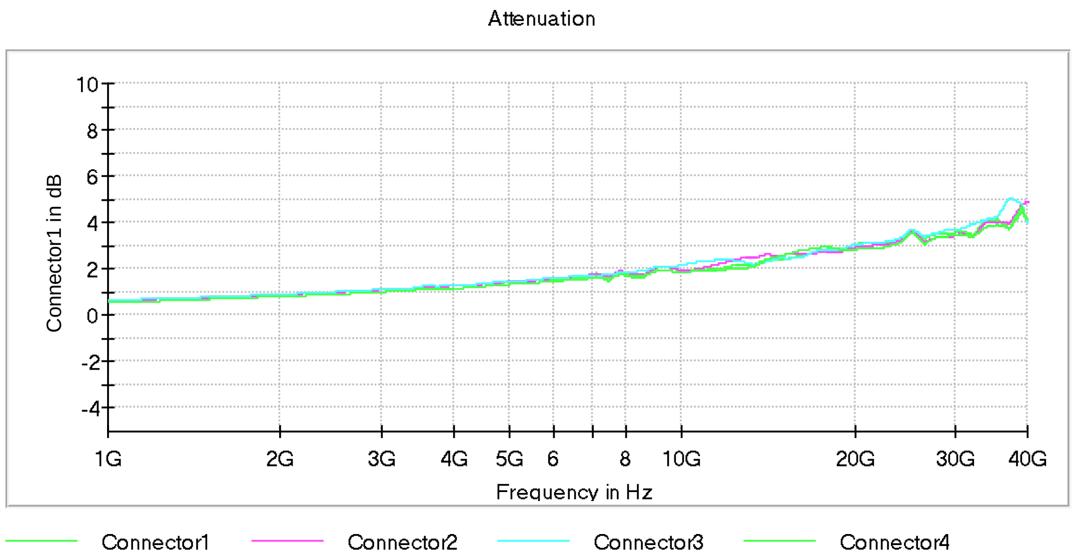


Figure 53: Attenuation

Figure 54: Gain

Figure 55: Spurious

2.34 Emissions in restricted frequency bands (Average) (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 81: Result

DUT Frequency	Result
MHz	
6025.000000	PASS

Table 82: Final measurements

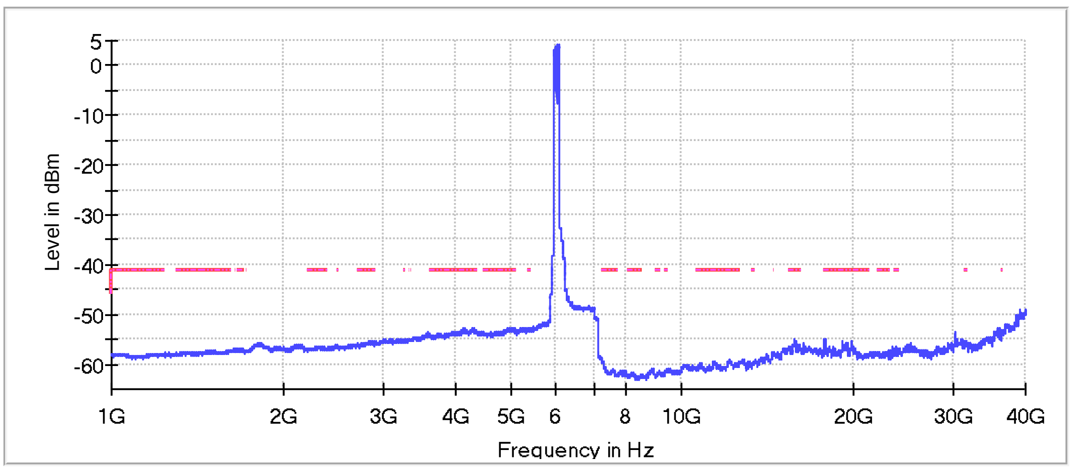
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

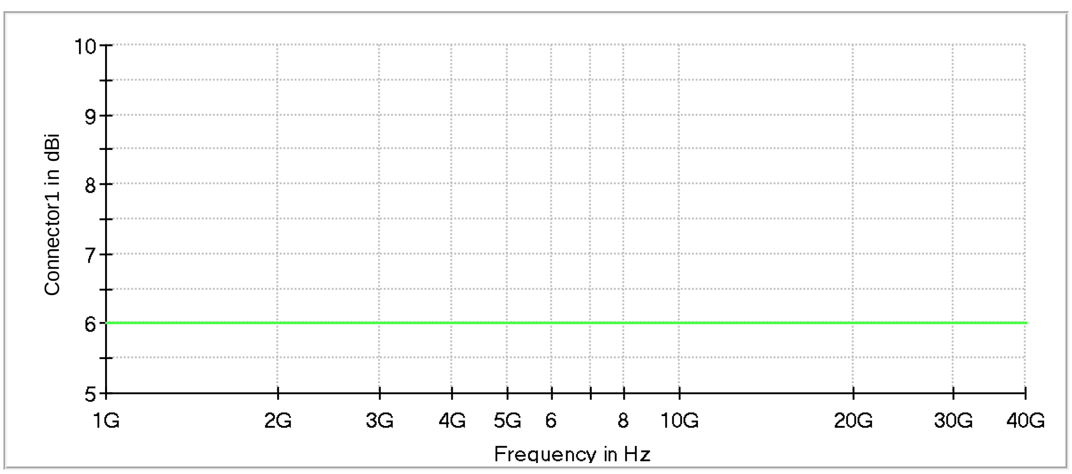
Table 83: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
4952.750000	-52.6	11.4	-41.2
5068.750000	-52.6	11.4	-41.2
5057.750000	-52.6	11.4	-41.2
5061.250000	-52.6	11.4	-41.2
5052.250000	-52.7	11.5	-41.2
5066.250000	-52.7	11.5	-41.2
5364.750000	-52.7	11.5	-41.2
5065.250000	-52.7	11.5	-41.2
5436.750000	-52.7	11.5	-41.2
5055.250000	-52.7	11.5	-41.2
5056.250000	-52.7	11.5	-41.2
5401.250000	-52.7	11.5	-41.2
5055.750000	-52.7	11.5	-41.2
5068.250000	-52.7	11.5	-41.2
5080.750000	-52.7	11.5	-41.2

Table 84: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	1





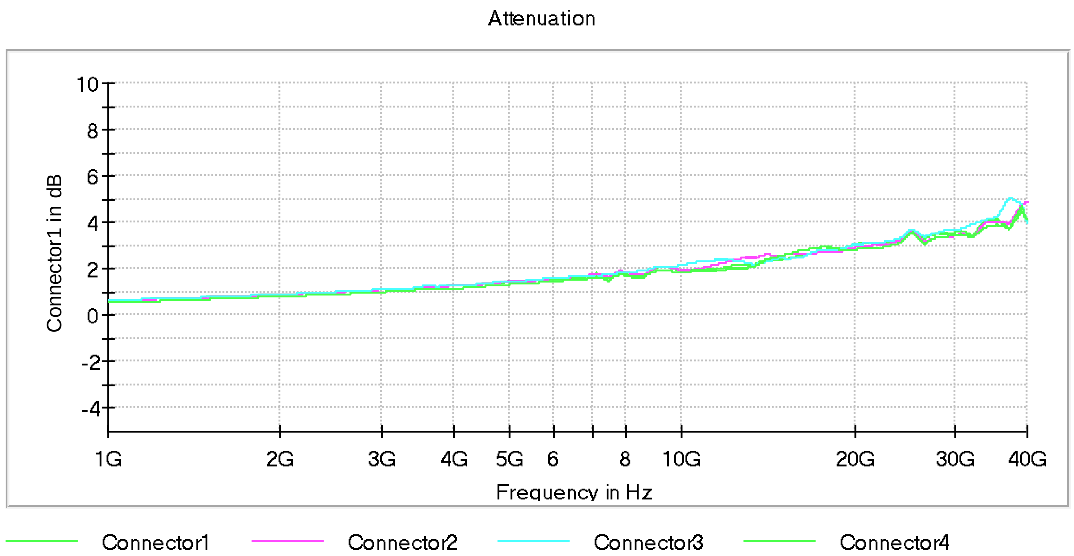


Figure 56: Attenuation

Figure 57: Gain

Figure 58: Restricted Band

2.35 Emissions in restricted frequency bands (Peak) (6025 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 85: Result

DUT Frequency	Result
MHz	
6025.000000	PASS

Table 86: Final measurements

Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

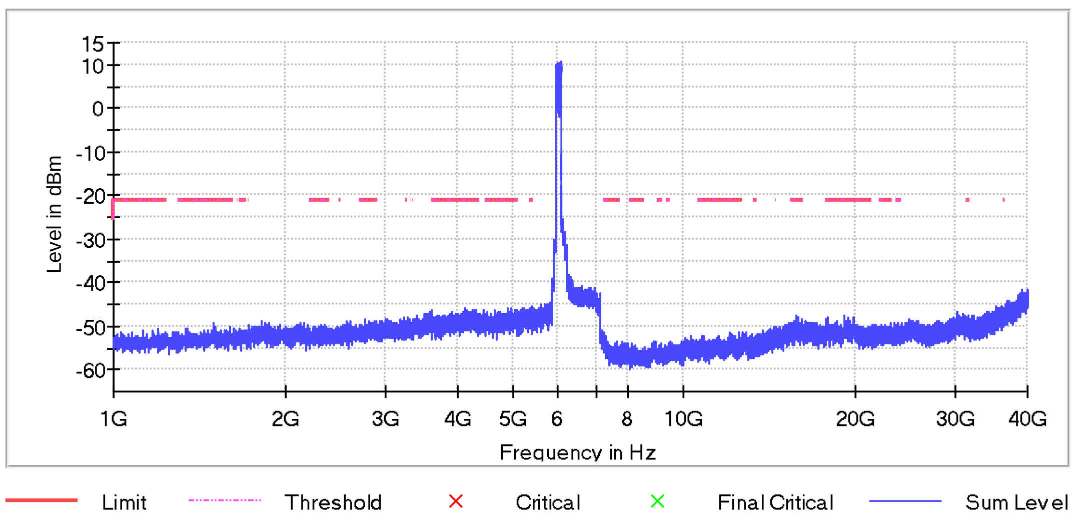
Table 87: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5387.250000	-45.6	24.4	-21.2
5388.250000	-45.7	24.5	-21.2
5352.250000	-46.0	24.8	-21.2
4906.250000	-46.0	24.8	-21.2
36499.015656	-46.0	24.8	-21.2
4140.250000	-46.0	24.8	-21.2
4992.250000	-46.1	24.9	-21.2
36466.016687	-46.1	24.9	-21.2
36474.266429	-46.1	24.9	-21.2
5387.750000	-46.1	24.9	-21.2
5082.250000	-46.2	25.0	-21.2
4673.750000	-46.2	25.0	-21.2
5066.250000	-46.2	25.0	-21.2
3624.250000	-46.3	25.1	-21.2
36481.828693	-46.3	25.1	-21.2

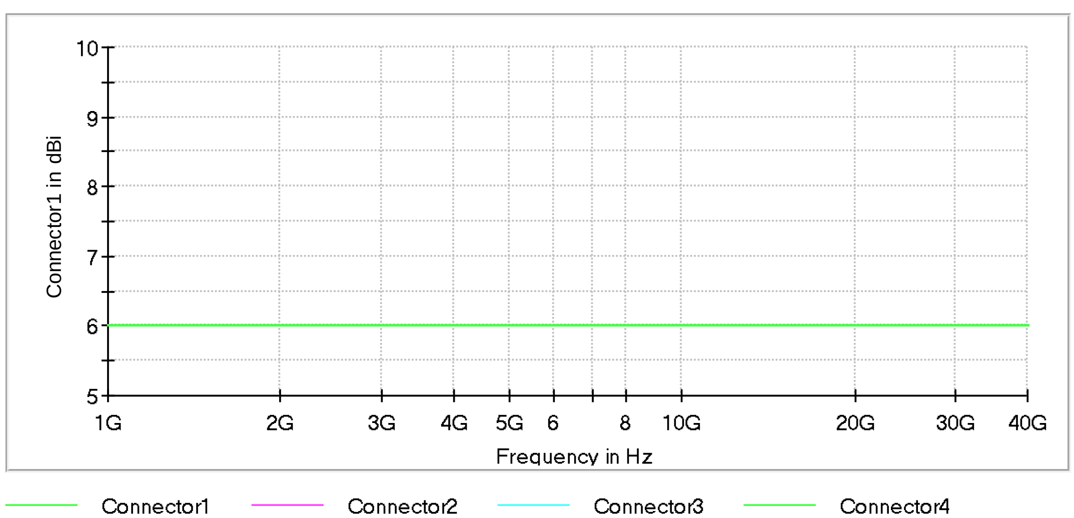
Table 88: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	2

Restricted Band



Gain



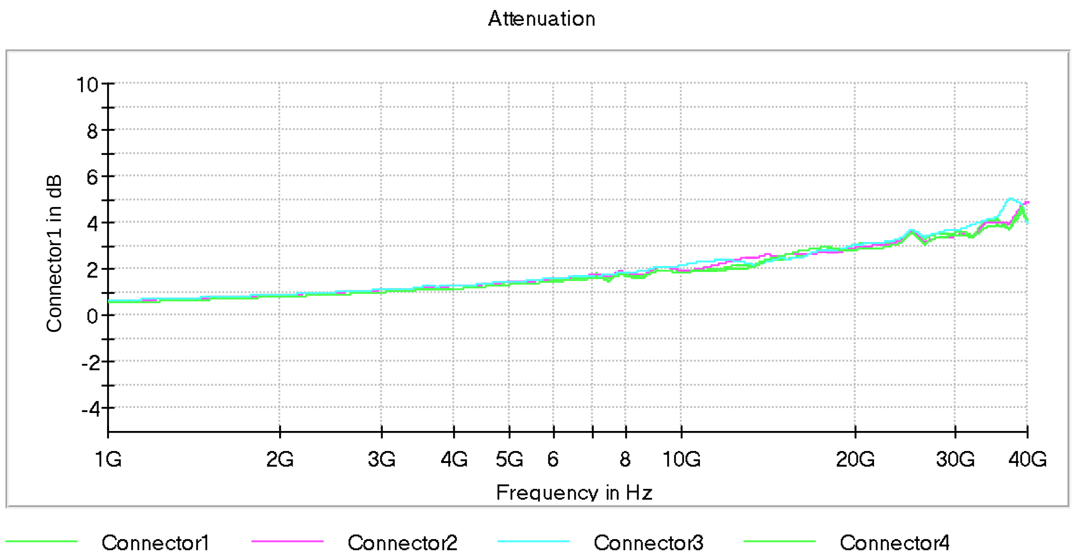


Figure 59: Attenuation

Figure 60: Gain

Figure 61: Restricted Band

2.36 Emission Bandwidth 26 dB (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 89: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6185.000000	170.000000	---	320.000000	6098.500000	---	6268.500000	---	5.3	PASS

26 dB Bandwidth

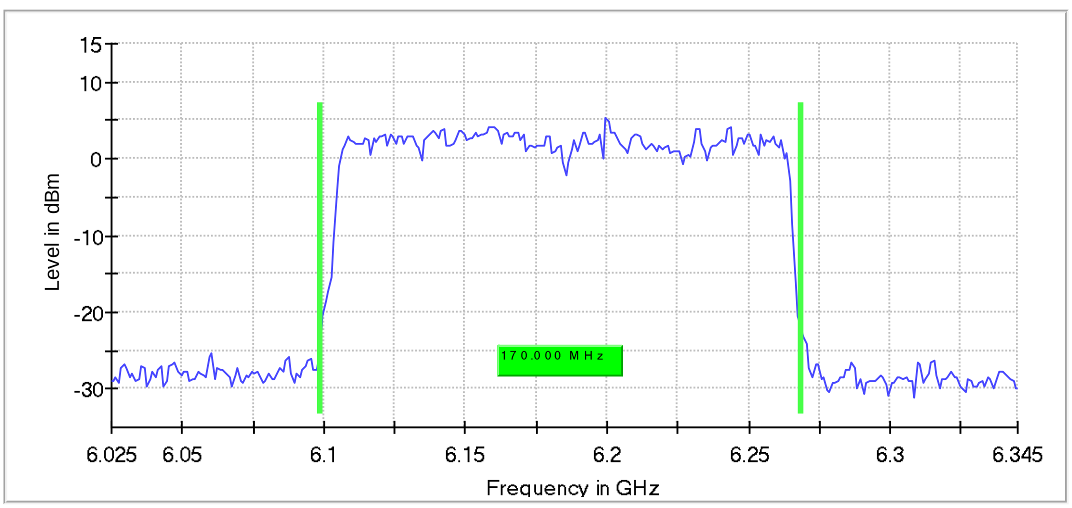
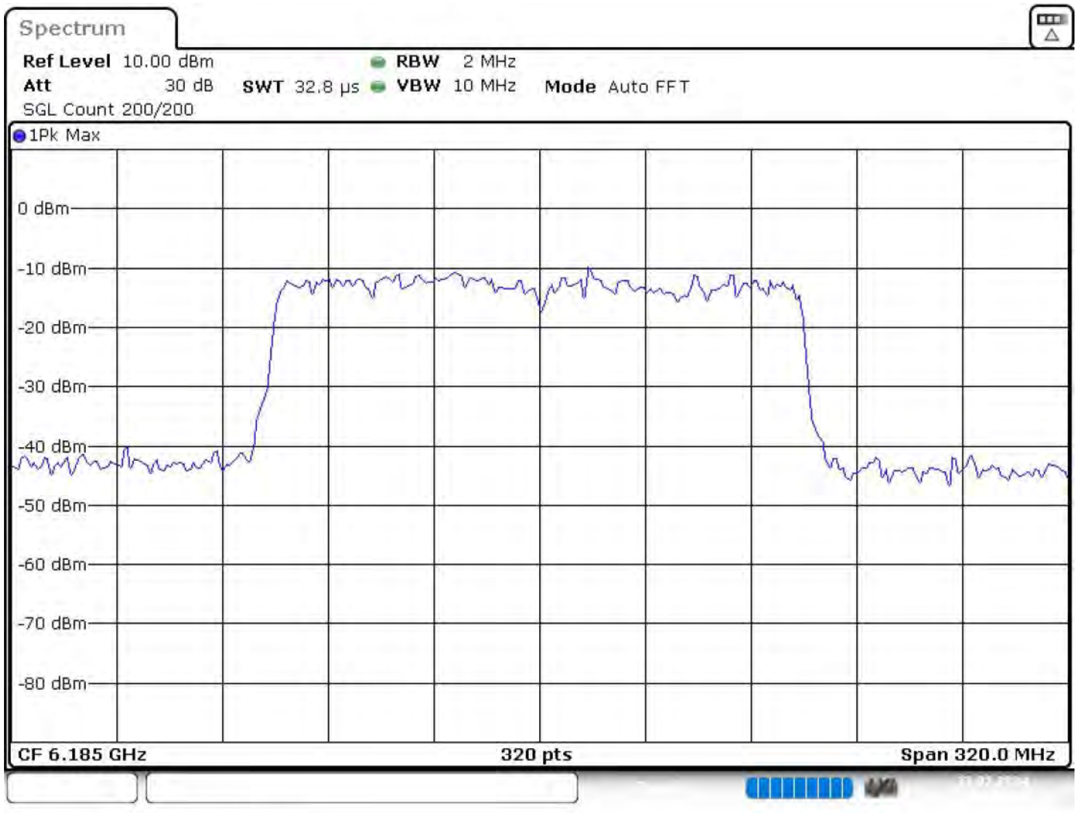


Figure 62: 26 dB Bandwidth



Date: 27.FEB.2024 01:57:25

2.37 In-Band Emissions (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 90: Result

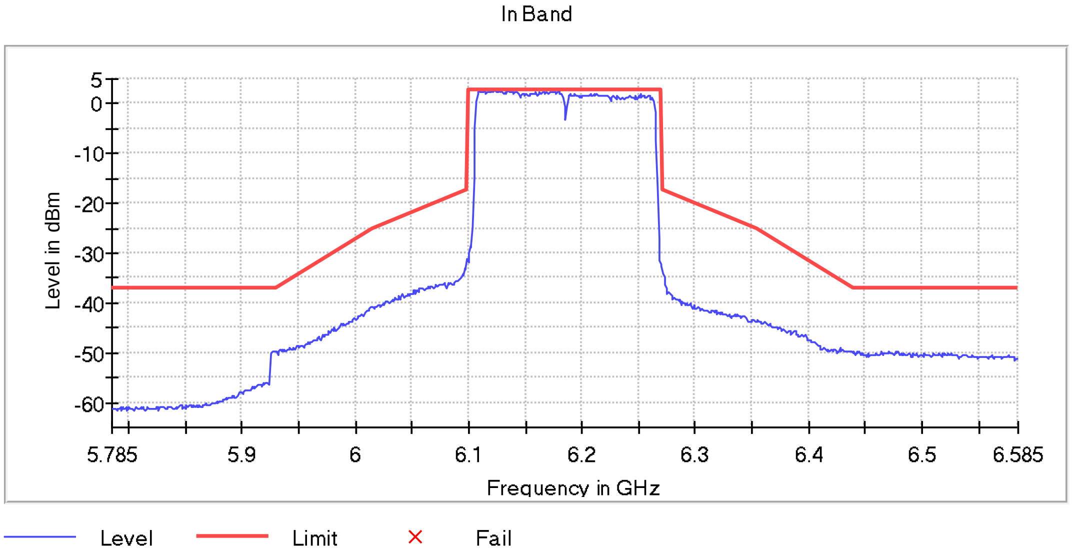
DUT Frequency	Result
MHz	
6185.000000	PASS

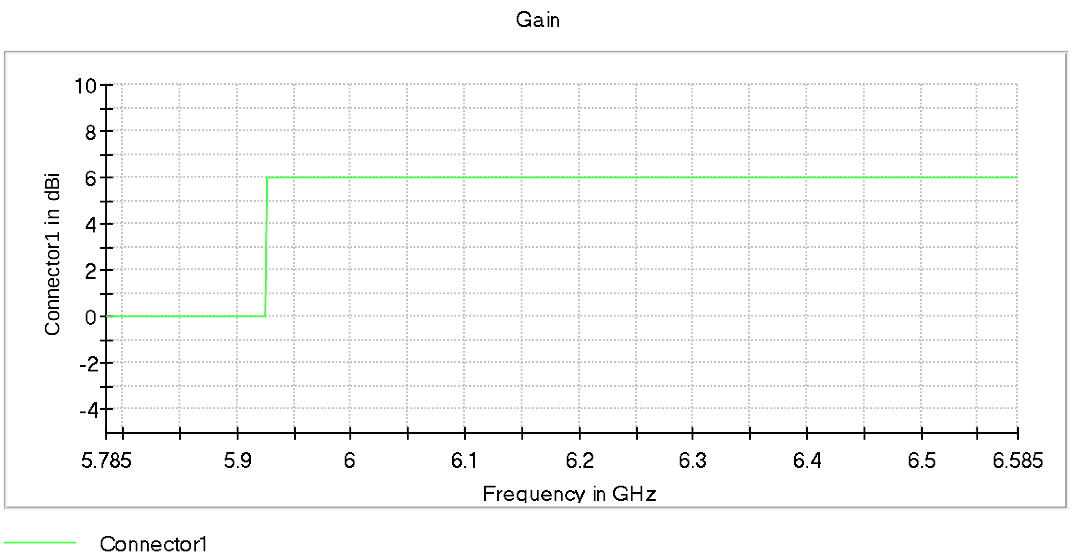
Table 91: Inband Peak

Frequency	Level
MHz	dBm
6241.500000	6.8

Table 92: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6241.500000	6.8	0.0	6.8	PASS
6250.500000	6.7	0.0	6.8	PASS
6248.500000	6.6	0.1	6.8	PASS
6255.500000	6.6	0.1	6.8	PASS
6256.500000	6.6	0.1	6.8	PASS
6253.500000	6.6	0.2	6.8	PASS
6259.500000	6.6	0.2	6.8	PASS
6214.500000	6.5	0.2	6.8	PASS
6238.500000	6.5	0.3	6.8	PASS
6260.500000	6.5	0.3	6.8	PASS
6244.500000	6.5	0.3	6.8	PASS
6257.500000	6.5	0.3	6.8	PASS
6258.500000	6.5	0.3	6.8	PASS
6249.500000	6.4	0.3	6.8	PASS
6216.500000	6.4	0.3	6.8	PASS


In Band
5
0
-10
-20
-30
-40
-50
-60
Level in dBm
5.785
5.9
6
6.1
6.2
6.3
6.4
6.5
6.585
Frequency in GHz
Level
Limit
Fail


Gain
10
8
6
4
2
0
-2
-4
Connector1 in dBi
5.785
5.9
6
6.1
6.2
6.3
6.4
6.5
6.585
Frequency in GHz
Connector1

Attenuation

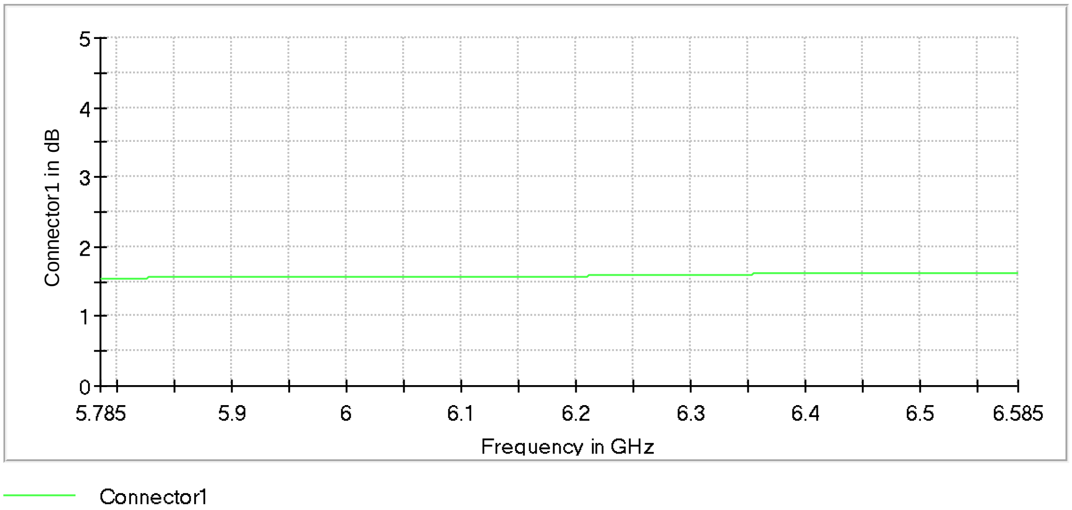


Figure 63: Attenuation

Figure 64: Gain

Figure 65: In Band

Table 93: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.78500 GHz	5.78500 GHz
Stop Frequency	6.58500 GHz	6.58500 GHz
Span	800.000 MHz	800.000 MHz
RBW	2.000 MHz	~ 1.600 MHz
VBW	10.000 MHz	~ 8.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.38 Occupied Channel Bandwidth 99% (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 94: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6185.000000	157.000000	---	320.000000	6106.500000	5925.000000	6263.500000	7125.000000	PASS

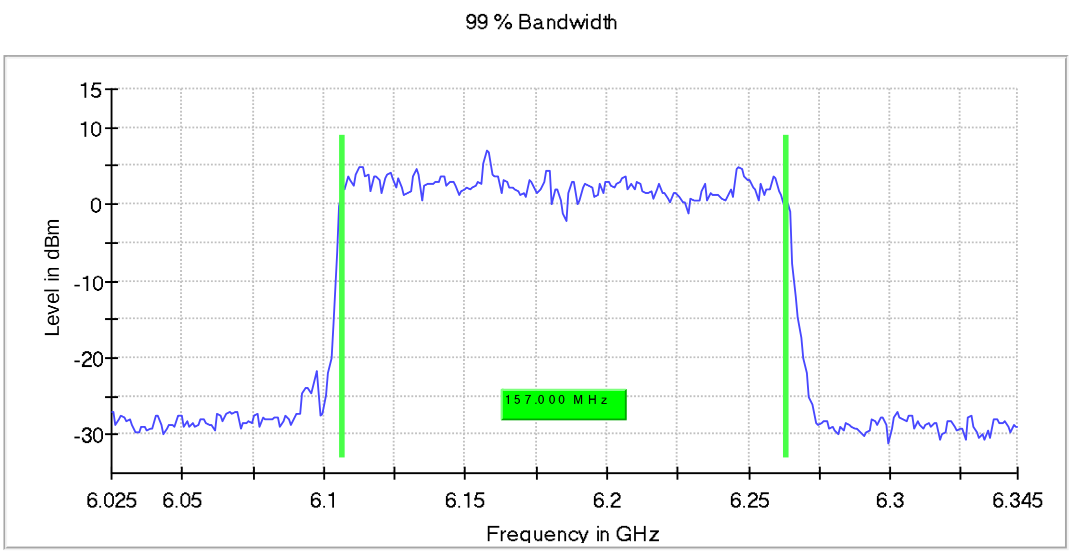


Figure 66: 99 % Bandwidth

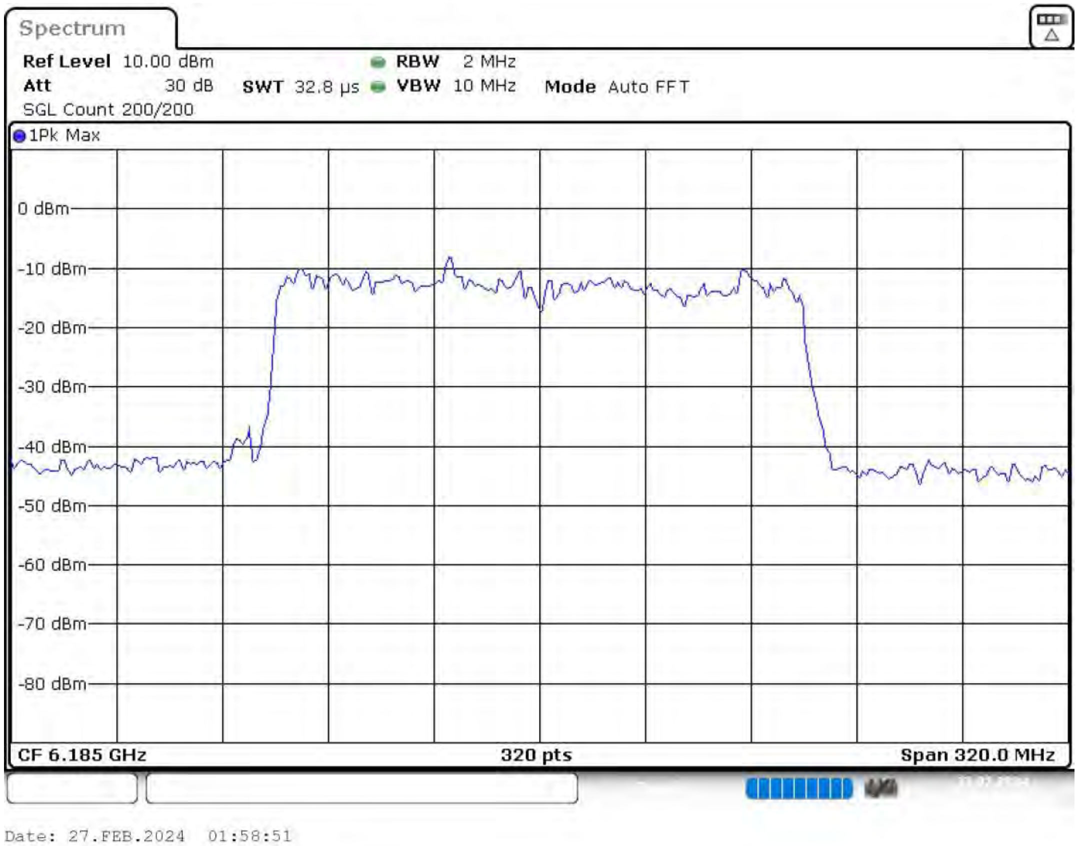


Table 95: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.02500 GHz	6.02500 GHz
Stop Frequency	6.34500 GHz	6.34500 GHz
Span	320.000 MHz	320.000 MHz
RBW	2.000 MHz	>= 1.600 MHz
VBW	10.000 MHz	>= 6.000 MHz
SweepPoints	320	~ 320
Sweeptime	32.813 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.39 Tx Spurious Emission (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 96: Result

DUT Frequency	Result
MHz	
6185.000000	PASS

Table 97: Final measurements

Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

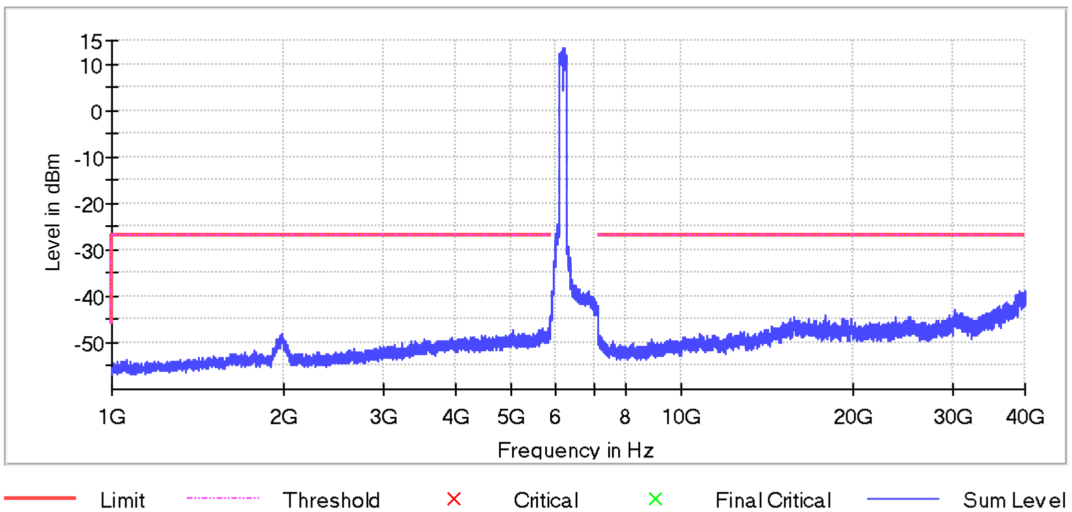
Table 98: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
1000.000000	-55.1	9.2	-45.9
39151.250000	-38.8	11.8	-27.0
39956.750000	-38.8	11.8	-27.0
39951.250000	-38.8	11.8	-27.0
39081.250000	-39.0	12.0	-27.0
39104.250000	-39.0	12.0	-27.0
39987.250000	-39.0	12.0	-27.0
39980.750000	-39.0	12.0	-27.0
39993.750000	-39.0	12.0	-27.0
39991.750000	-39.0	12.0	-27.0
39146.250000	-39.1	12.1	-27.0
39992.750000	-39.1	12.1	-27.0
39982.750000	-39.1	12.1	-27.0
39960.250000	-39.1	12.1	-27.0
39141.750000	-39.1	12.1	-27.0

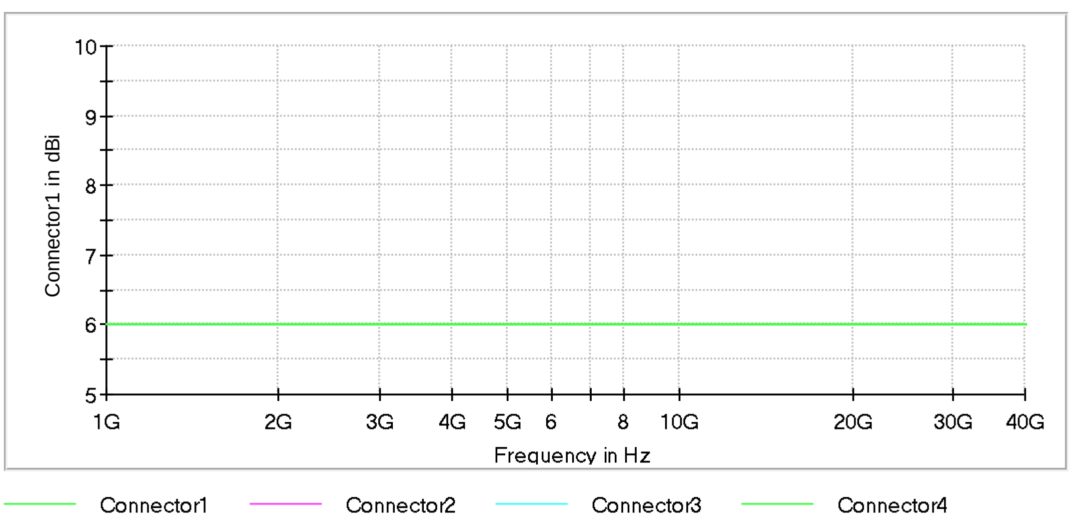
Table 99: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	2	2
5925.000000	7125.000000	2	2
7125.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Spurious



Gain



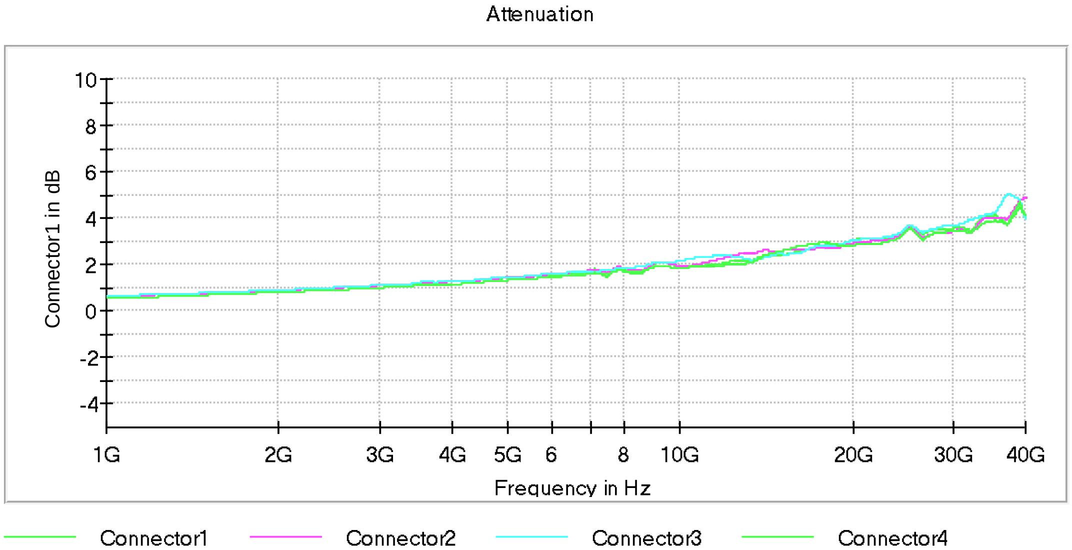


Figure 67: Attenuation

Figure 68: Gain

Figure 69: Spurious

2.40 Emissions in restricted frequency bands (Average) (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 100: Result

DUT Frequency	Result
MHz	
6185.000000	PASS

Table 101: Final measurements

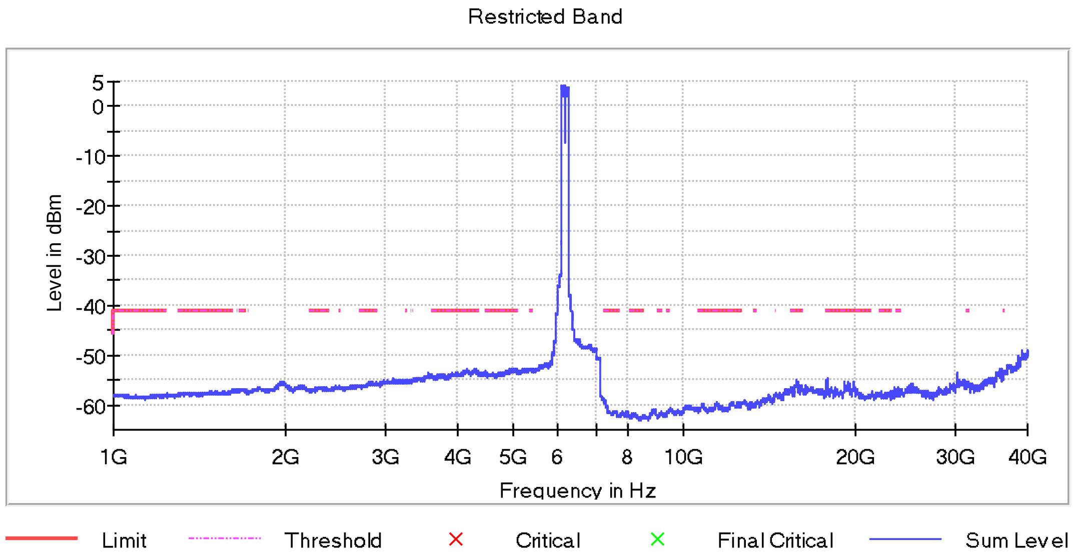
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

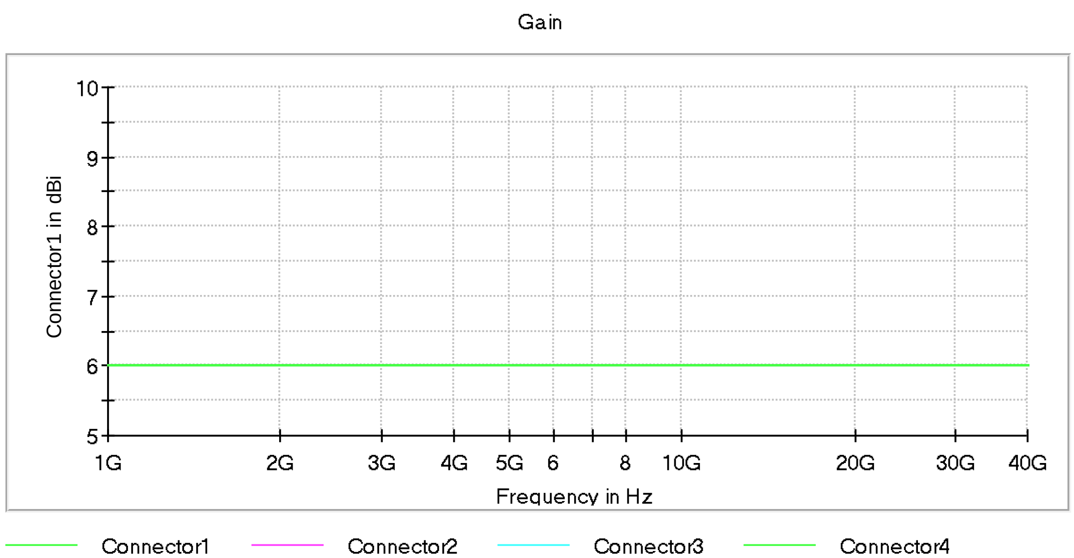
Table 102: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5060.250000	-52.5	11.3	-41.2
5073.250000	-52.6	11.4	-41.2
5049.750000	-52.6	11.4	-41.2
5050.250000	-52.6	11.4	-41.2
5386.250000	-52.6	11.4	-41.2
5050.750000	-52.6	11.4	-41.2
5075.750000	-52.6	11.4	-41.2
4968.250000	-52.6	11.4	-41.2
5364.250000	-52.6	11.4	-41.2
5059.750000	-52.7	11.5	-41.2
5385.250000	-52.7	11.5	-41.2
5048.750000	-52.7	11.5	-41.2
5415.750000	-52.7	11.5	-41.2
5044.750000	-52.7	11.5	-41.2
5077.750000	-52.7	11.5	-41.2

Table 103: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	1





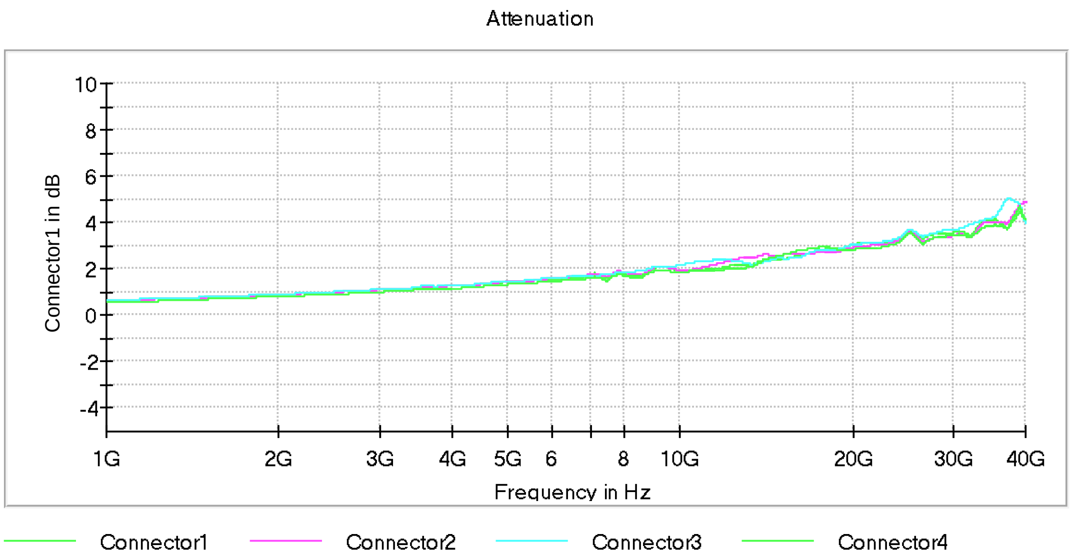


Figure 70: Attenuation

Figure 71: Gain

Figure 72: Restricted Band

2.41 Emissions in restricted frequency bands (Peak) (6185 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 104: Result

DUT Frequency	Result
MHz	
6185.000000	PASS

Table 105: Final measurements

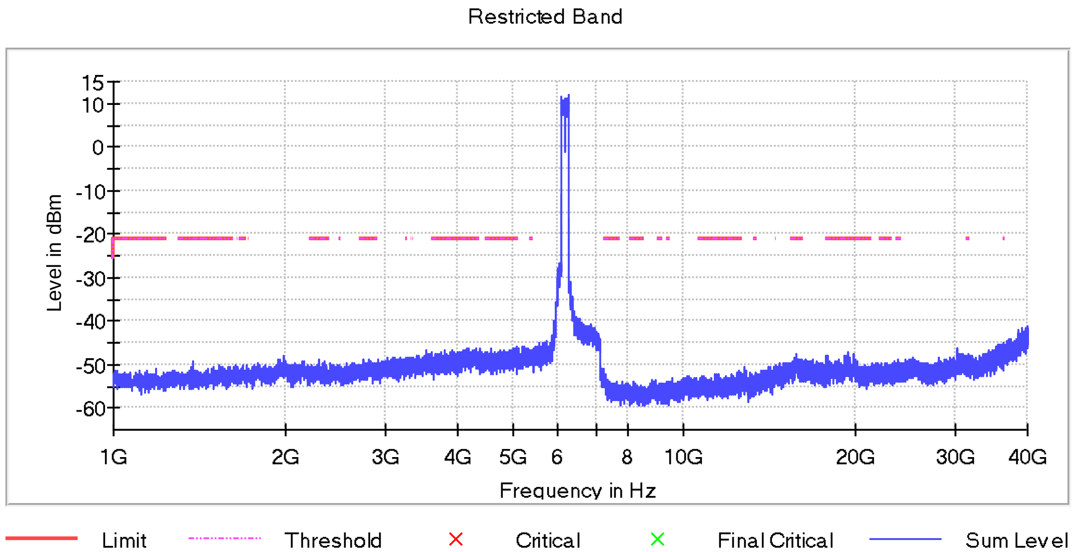
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

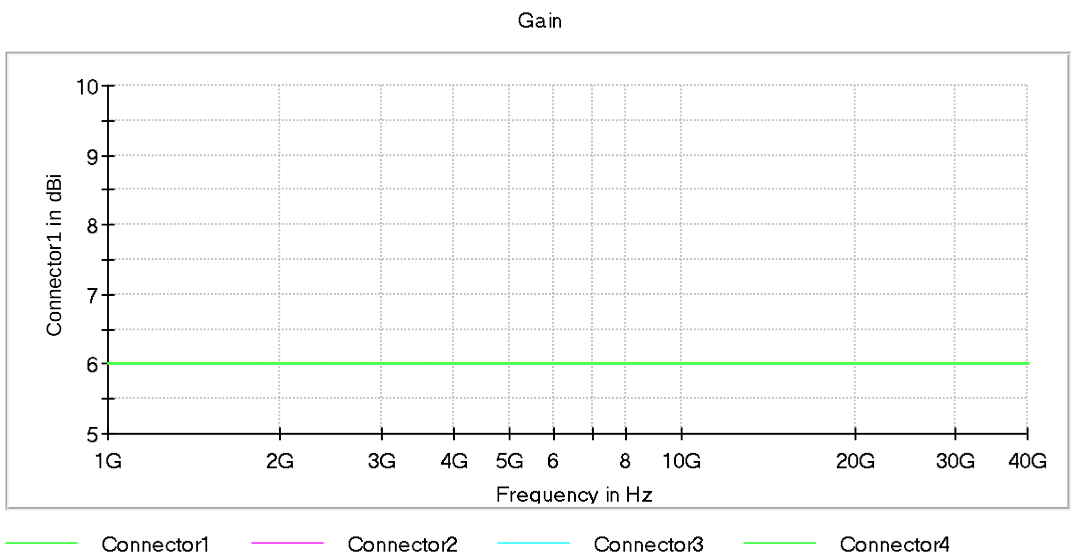
Table 106: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
36472.891472	-45.6	24.4	-21.2
5103.750000	-45.7	24.5	-21.2
5061.250000	-46.1	24.9	-21.2
4397.250000	-46.1	24.9	-21.2
5445.750000	-46.1	24.9	-21.2
36499.703134	-46.1	24.9	-21.2
4157.250000	-46.2	25.0	-21.2
5144.250000	-46.2	25.0	-21.2
4188.750000	-46.2	25.0	-21.2
5027.750000	-46.3	25.1	-21.2
36456.391988	-46.3	25.1	-21.2
5097.750000	-46.3	25.1	-21.2
36430.955283	-46.4	25.2	-21.2
36499.015656	-46.4	25.2	-21.2
36452.267117	-46.4	25.2	-21.2

Table 107: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	2





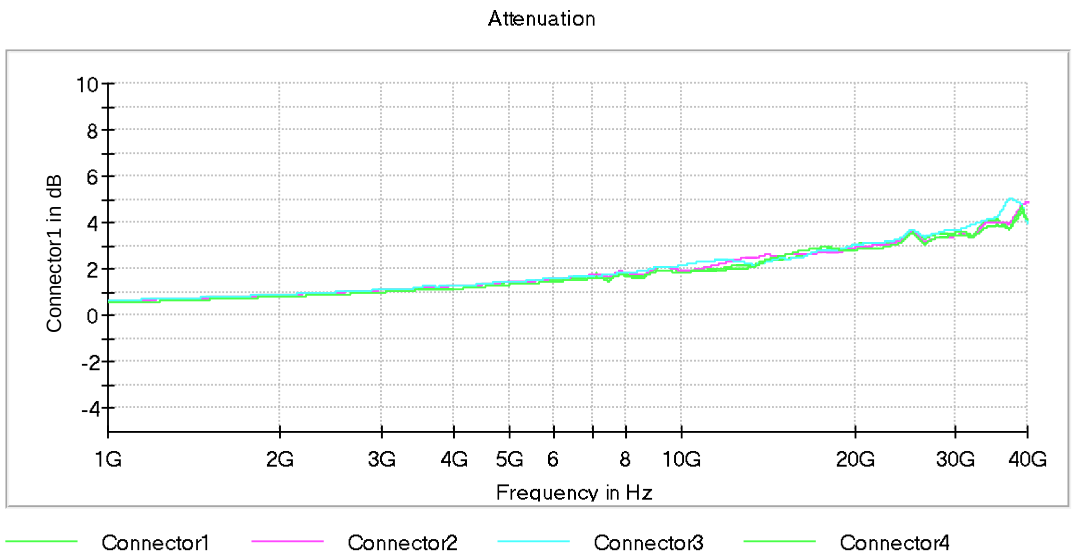


Figure 73: Attenuation

Figure 74: Gain

Figure 75: Restricted Band

2.42 Emission Bandwidth 26 dB (6325 MHz, 160 MHz, 24.000 dBm)

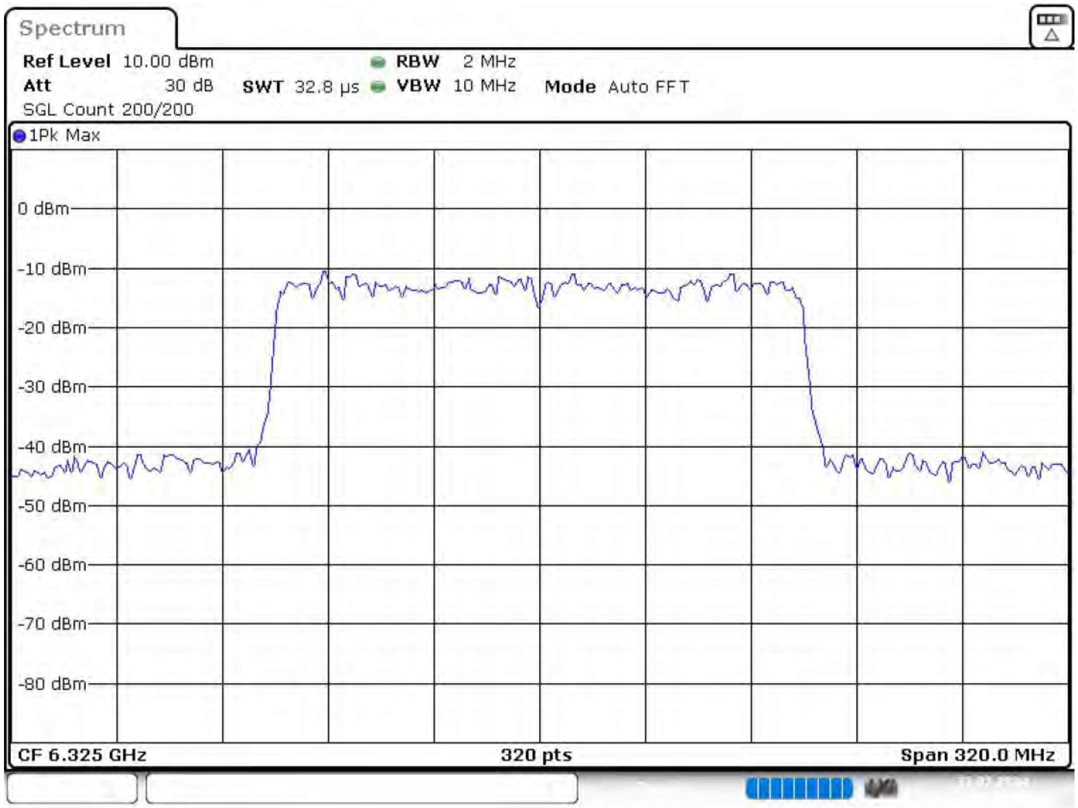
Customized settings.

Table 108: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6325.000000	168.000000	---	320.000000	6241.500000	---	6409.500000	---	4.7	PASS

26 dB Bandwidth

Figure 76: 26 dB Bandwidth



Date: 27.FEB.2024 02:16:36

2.43 In-Band Emissions (6325 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 109: Result

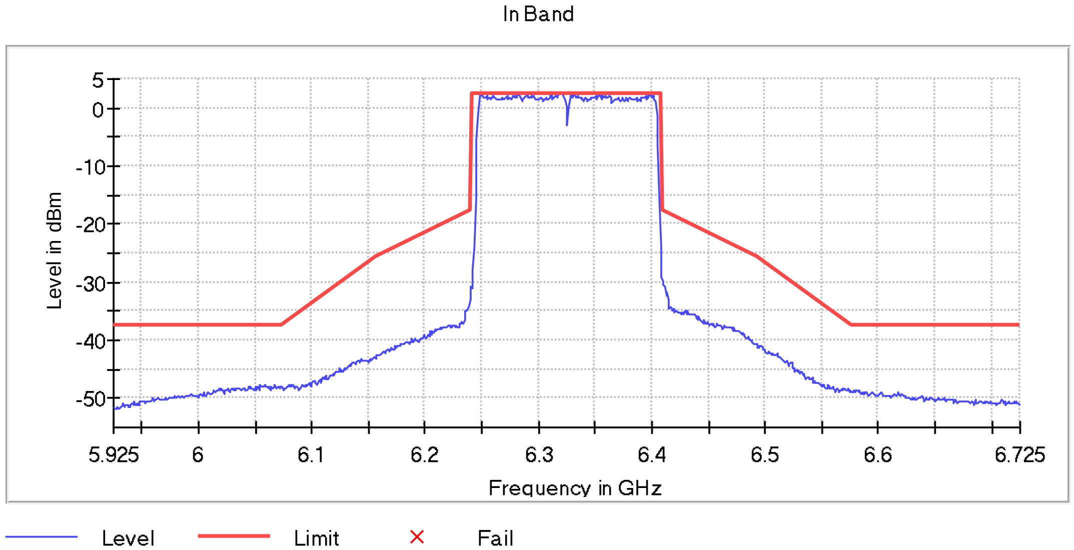
DUT Frequency	Result
MHz	
6325.000000	PASS

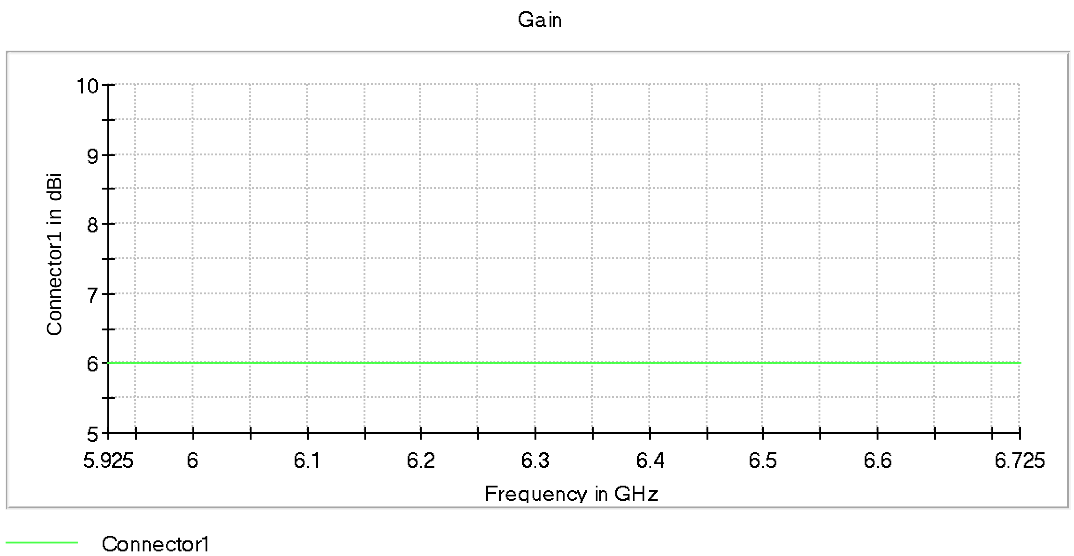
Table 110: Inband Peak

Frequency	Level
MHz	dBm
6220.500000	6.8

Table 111: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6320.500000	6.8	0.0	6.8	PASS
6318.500000	6.7	0.1	6.8	PASS
6331.500000	6.7	0.1	6.8	PASS
6322.500000	6.6	0.2	6.8	PASS
6329.500000	6.6	0.2	6.8	PASS
6316.500000	6.6	0.2	6.8	PASS
6279.500000	6.5	0.3	6.8	PASS
6319.500000	6.5	0.3	6.8	PASS
6283.500000	6.5	0.3	6.8	PASS
6292.500000	6.5	0.3	6.8	PASS
6288.500000	6.5	0.3	6.8	PASS
6294.500000	6.4	0.4	6.8	PASS
6361.500000	6.4	0.4	6.8	PASS
6314.500000	6.4	0.4	6.8	PASS
6330.500000	6.4	0.4	6.8	PASS


In Band
Level in dBm
5
0
-10
-20
-30
-40
-50
5.925
6
6.1
6.2
6.3
6.4
6.5
6.6
6.725
Frequency in GHz
Level
Limit
Fail


Gain
Connector1 in dBi
10
9
8
7
6
5
5.925
6
6.1
6.2
6.3
6.4
6.5
6.6
6.725
Frequency in GHz
Connector1

Attenuation

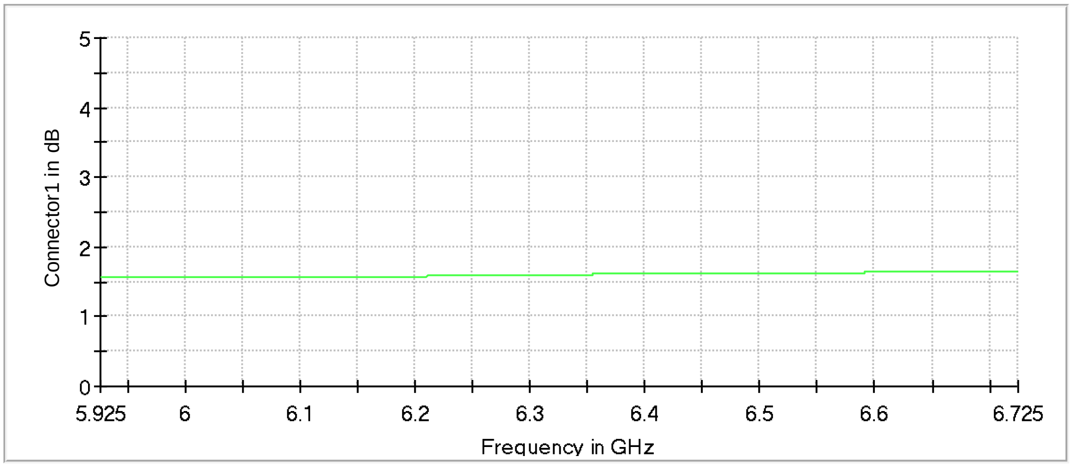


Figure 77: Attenuation

Figure 78: Gain

Figure 79: In Band

Table 112: Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.92500 GHz	5.92500 GHz
Stop Frequency	6.72500 GHz	6.72500 GHz
Span	800.000 MHz	800.000 MHz
RBW	2.000 MHz	~ 1.600 MHz
VBW	10.000 MHz	~ 8.000 MHz
SweepPoints	800	~ 800
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

2.44 Occupied Channel Bandwidth 99% (6325 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 113: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6325.000000	157.000000	---	320.000000	6246.500000	5925.000000	6403.500000	7125.000000	PASS

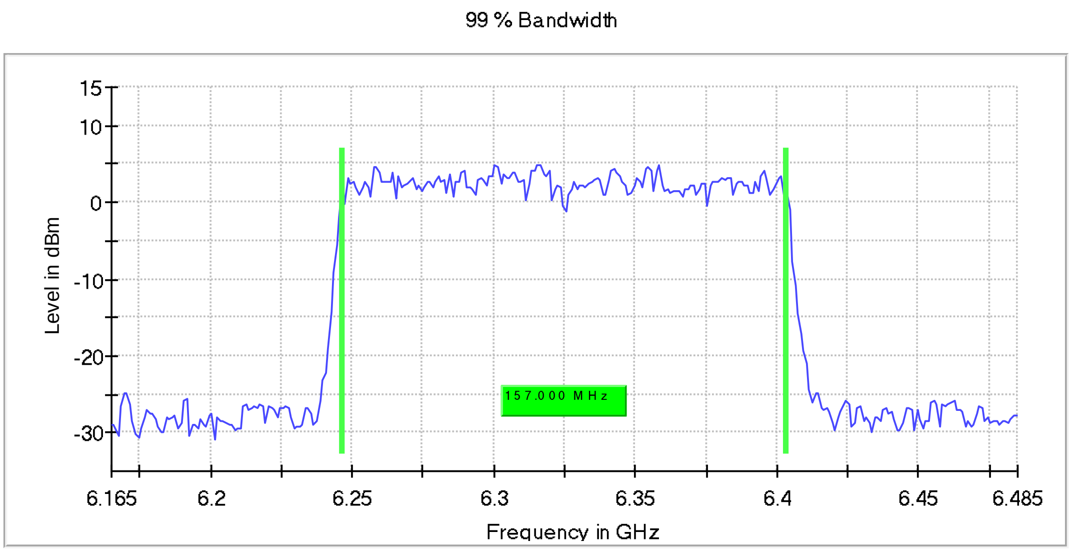


Figure 80: 99 % Bandwidth

PROPRIETARY

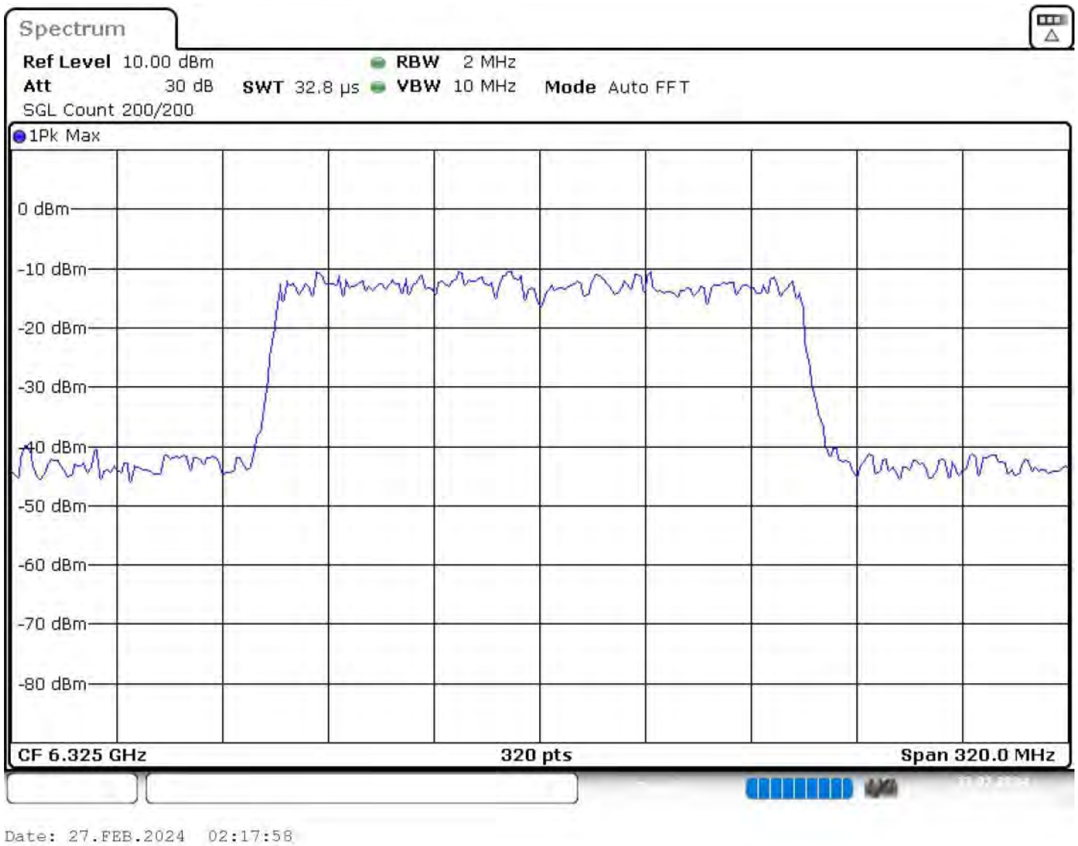


Table 114: Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.16500 GHz	6.16500 GHz
Stop Frequency	6.48500 GHz	6.48500 GHz
Span	320.000 MHz	320.000 MHz
RBW	2.000 MHz	>= 1.600 MHz
VBW	10.000 MHz	>= 6.000 MHz
SweepPoints	320	~ 320
Sweeptime	32.813 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

2.45 Tx Spurious Emission (6325 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 115: Result

DUT Frequency	Result
MHz	
6325.000000	PASS

Table 116: Final measurements

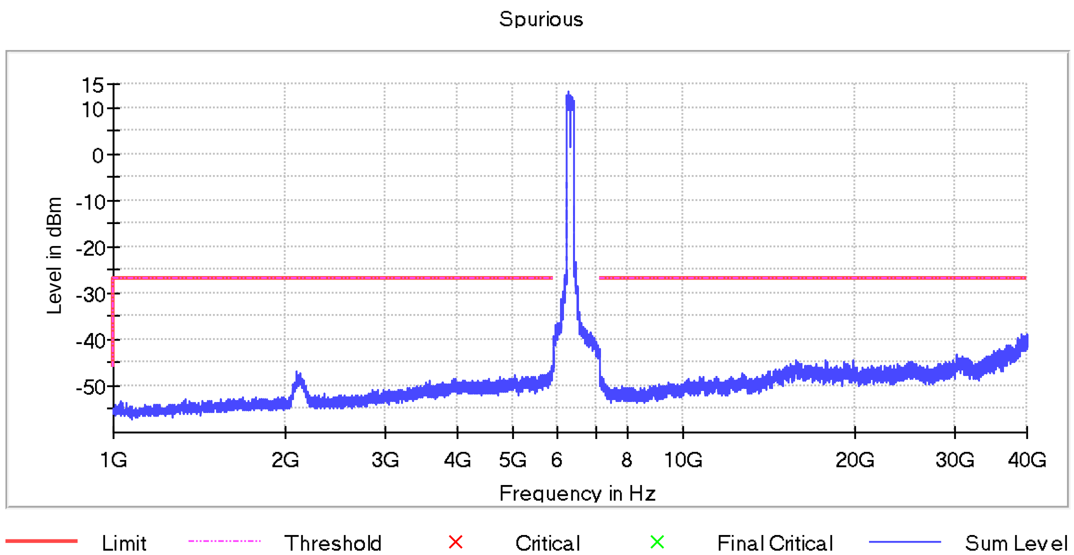
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

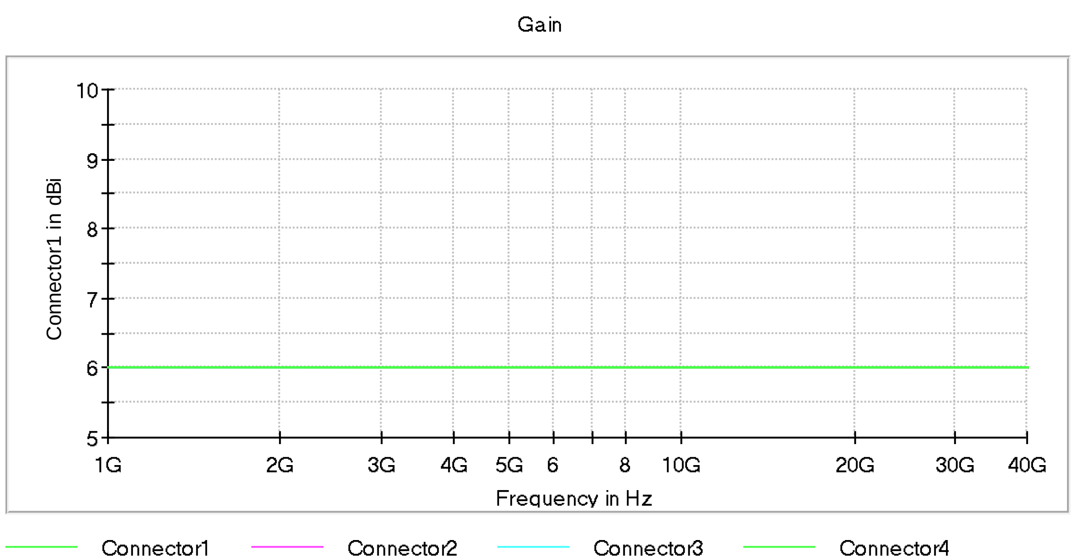
Table 117: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
1000.000000	-55.0	9.1	-45.9
39941.250000	-38.7	11.7	-27.0
39925.250000	-38.7	11.7	-27.0
39949.750000	-38.8	11.8	-27.0
39147.250000	-38.8	11.8	-27.0
39098.250000	-38.8	11.8	-27.0
39999.750000	-38.9	11.9	-27.0
40000.000000	-38.9	11.9	-27.0
39957.250000	-38.9	11.9	-27.0
39958.250000	-38.9	11.9	-27.0
39949.250000	-39.0	12.0	-27.0
39957.750000	-39.0	12.0	-27.0
39058.750000	-39.0	12.0	-27.0
39980.750000	-39.1	12.1	-27.0
39123.250000	-39.1	12.1	-27.0

Table 118: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	2	2
5925.000000	7125.000000	2	2
7125.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2





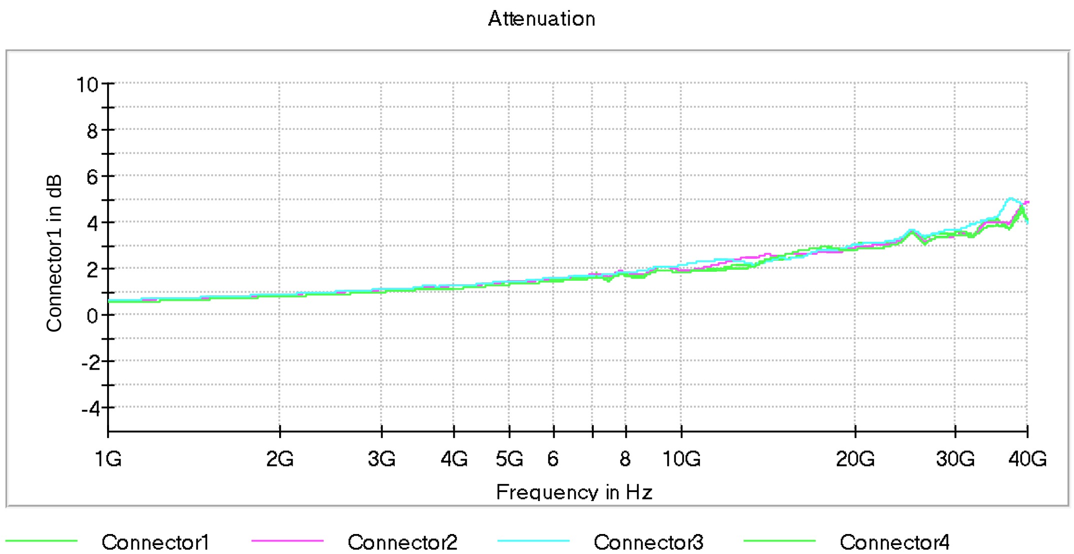


Figure 81: Attenuation

Figure 82: Gain

Figure 83: Spurious

2.46 Emissions in restricted frequency bands (Average) (6325 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 119: Result

DUT Frequency	Result
MHz	
6325.000000	PASS

Table 120: Final measurements

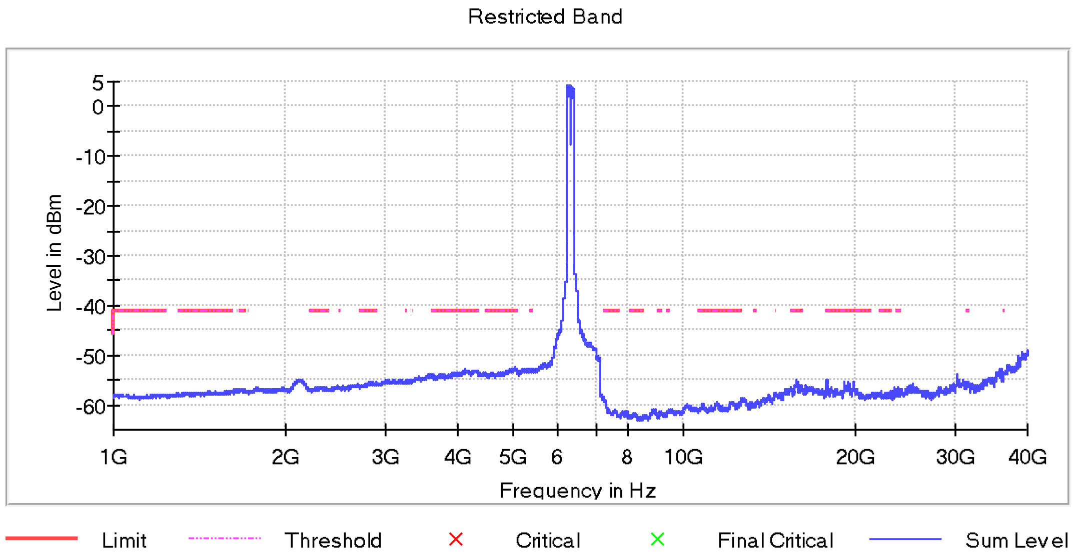
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

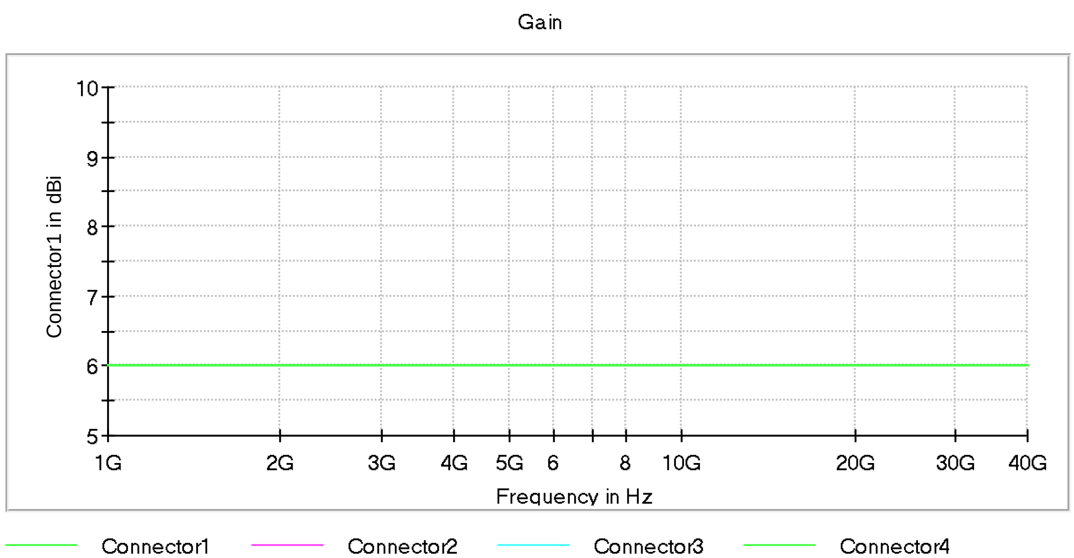
Table 121: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5048.250000	-52.4	11.2	-41.2
5061.750000	-52.5	11.3	-41.2
5065.750000	-52.5	11.3	-41.2
5369.250000	-52.6	11.4	-41.2
5073.250000	-52.6	11.4	-41.2
5351.250000	-52.6	11.4	-41.2
5419.250000	-52.6	11.4	-41.2
5407.250000	-52.6	11.4	-41.2
5035.250000	-52.6	11.4	-41.2
5057.750000	-52.7	11.5	-41.2
5404.750000	-52.7	11.5	-41.2
5061.250000	-52.7	11.5	-41.2
5415.750000	-52.7	11.5	-41.2
5060.750000	-52.7	11.5	-41.2
5068.750000	-52.7	11.5	-41.2

Table 122: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	1





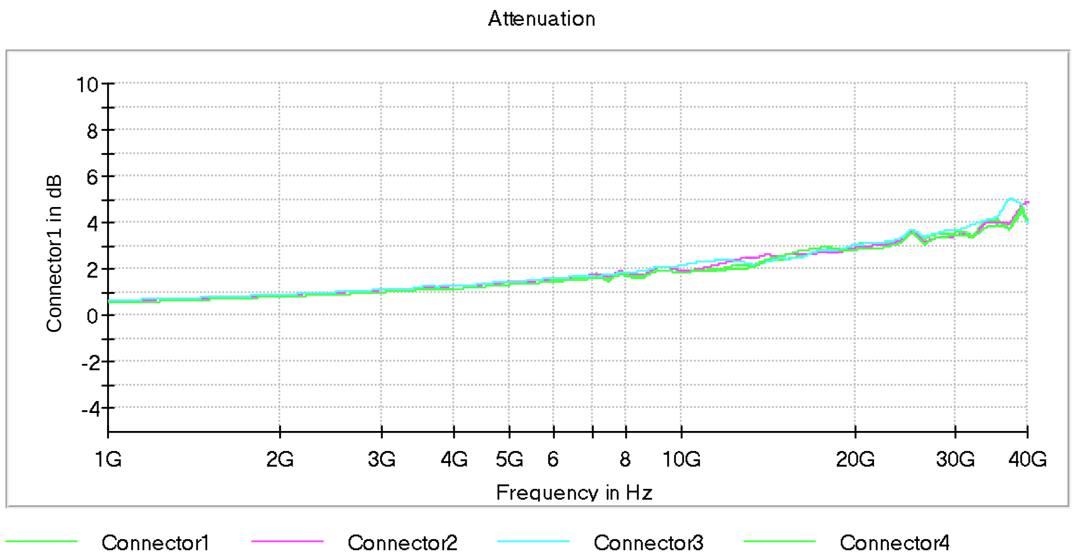


Figure 84: Attenuation

Figure 85: Gain

Figure 86: Restricted Band

2.47 Emissions in restricted frequency bands (Peak) (6325 MHz, 160 MHz, 24.000 dBm)

Customized settings.

Table 123: Result

DUT Frequency	Result
MHz	
6325.000000	PASS

Table 124: Final measurements

Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

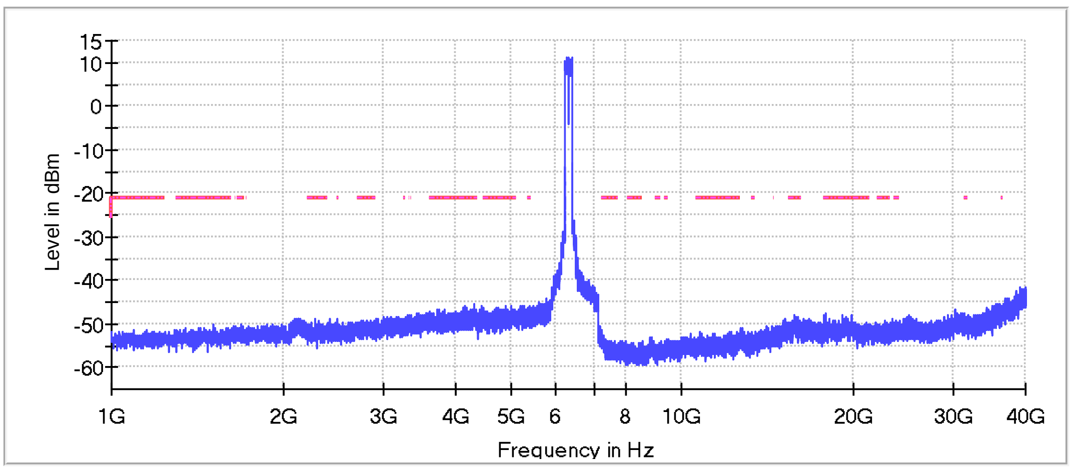
Table 125: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
4318.250000	-45.4	24.2	-21.2
36471.516515	-45.7	24.5	-21.2
5021.250000	-45.8	24.6	-21.2
5387.250000	-45.9	24.7	-21.2
4164.250000	-45.9	24.7	-21.2
4313.750000	-45.9	24.7	-21.2
4895.250000	-46.0	24.8	-21.2
5386.750000	-46.0	24.8	-21.2
36492.140871	-46.1	24.9	-21.2
5440.250000	-46.1	24.9	-21.2
4137.250000	-46.1	24.9	-21.2
4894.250000	-46.2	25.0	-21.2
4180.250000	-46.3	25.1	-21.2
5033.250000	-46.3	25.1	-21.2
36435.080154	-46.4	25.2	-21.2

Table 126: Measurement Settings

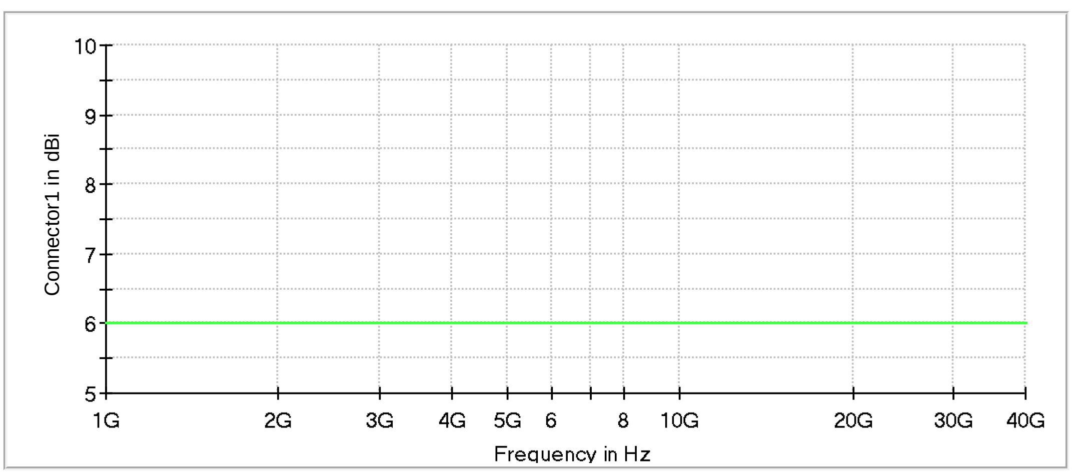
Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	2

Restricted Band



Limit Threshold Critical Final Critical Sum Level

Gain



Connector1 Connector2 Connector3 Connector4

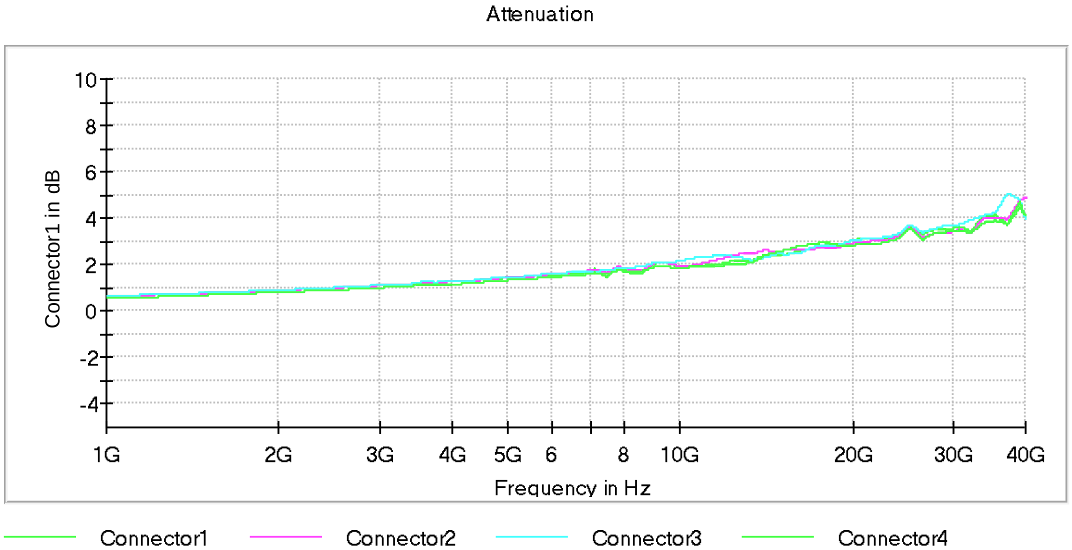


Figure 87: Attenuation

Figure 88: Gain

Figure 89: Restricted Band

2.48 Emission Bandwidth 26 dB (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 127: 26 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	dBm	
6265.000000	337.236533	---	340.000000	6095.632319	---	6432.868852	---	5.0	PASS

26 dB Bandwidth

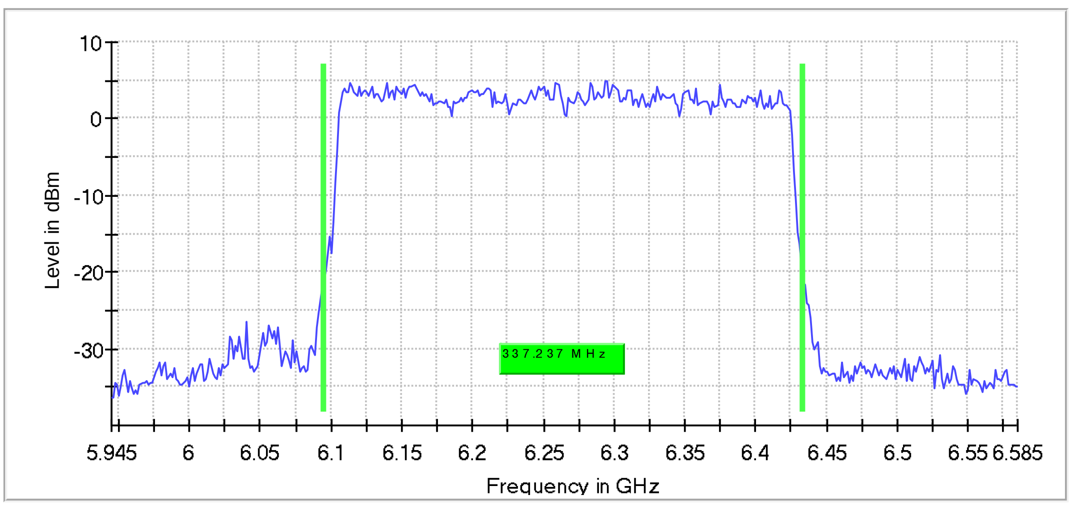
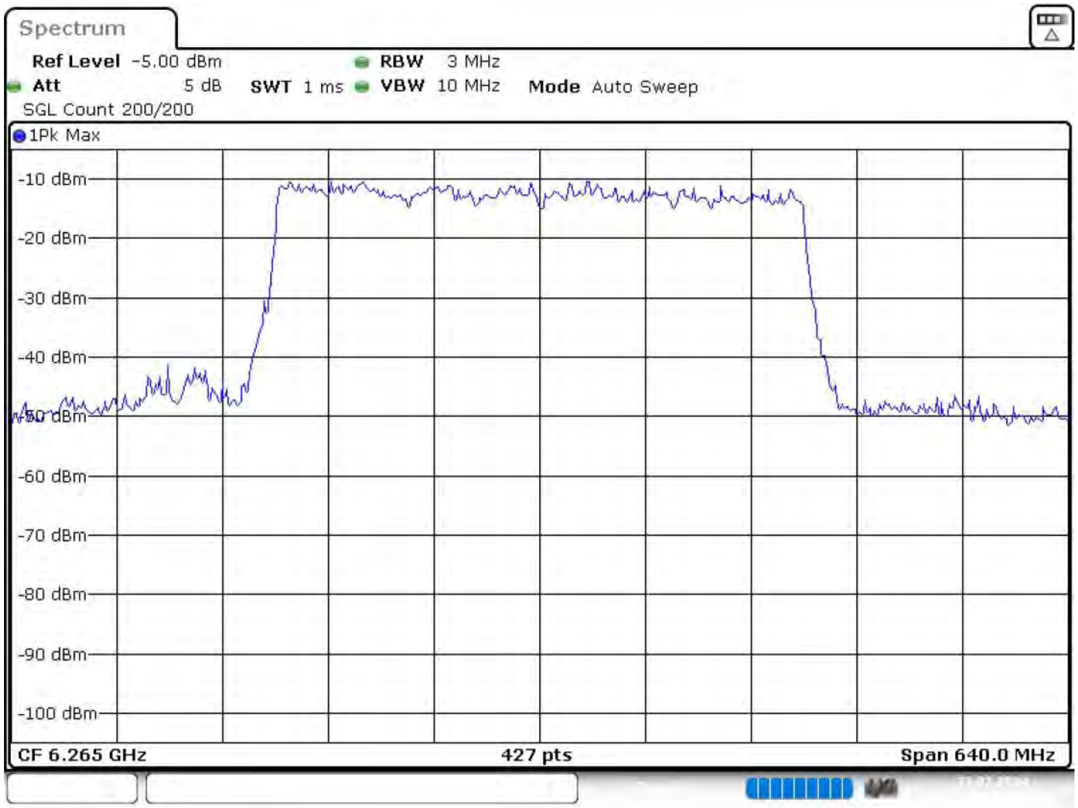


Figure 90: 26 dB Bandwidth



Date: 27.FEB.2024 02:50:06

2.49 In-Band Emissions (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 128: Result

DUT Frequency	Result
MHz	
6265.000000	PASS

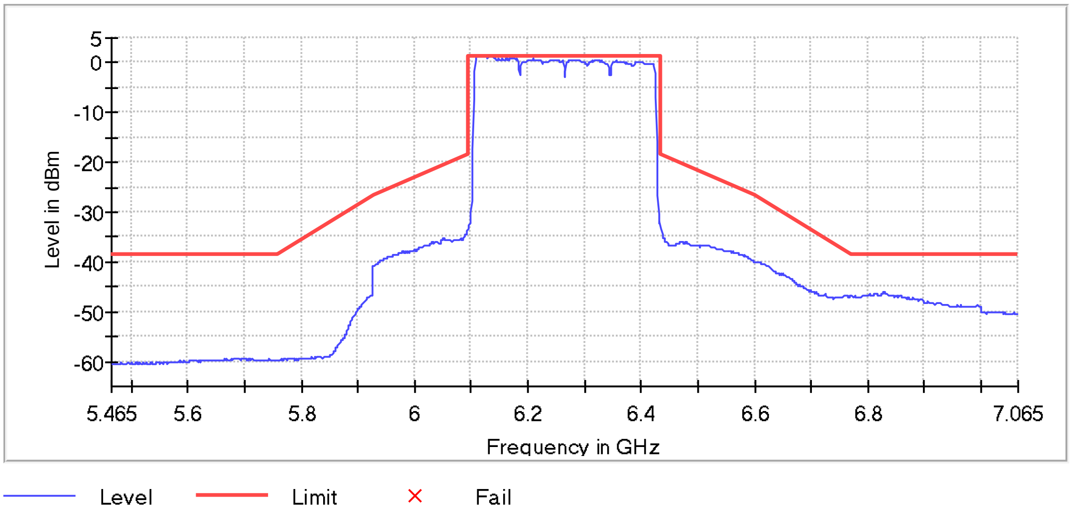
Table 129: Inband Peak

Frequency	Level
MHz	dBm
6119.545455	1.4

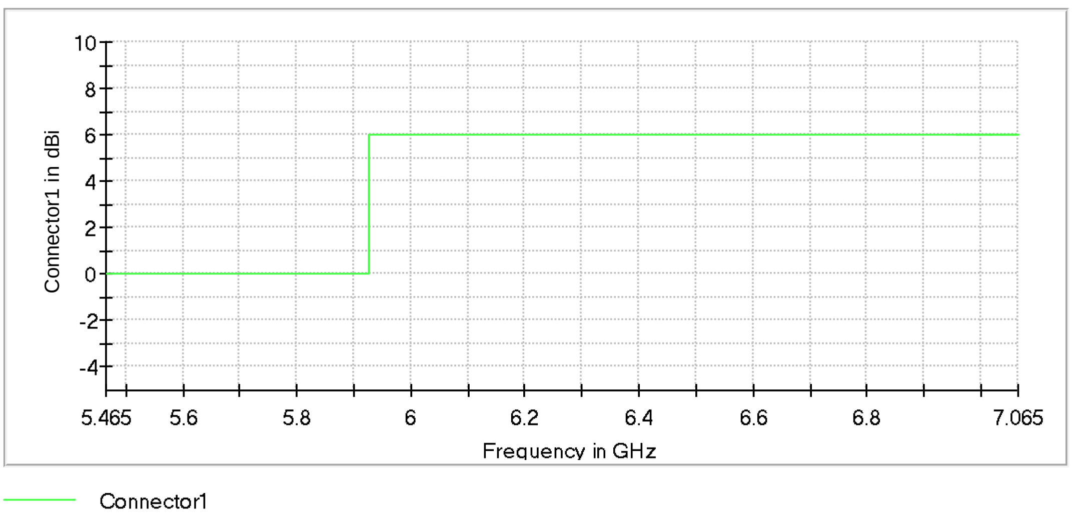
Table 130: Measurements

Frequency	Level	Margin	Limit	Result
MHz	dBm	dB	dBm	
6112.047798	1.3	0.0	1.4	PASS
6109.048735	1.3	0.1	1.4	PASS
6118.045923	1.3	0.1	1.4	PASS
6124.044049	1.3	0.1	1.4	PASS
6115.046860	1.3	0.1	1.4	PASS
6137.539831	1.3	0.1	1.4	PASS
6131.541706	1.3	0.1	1.4	PASS
6136.040300	1.2	0.1	1.4	PASS
6121.044986	1.2	0.1	1.4	PASS
6116.546392	1.2	0.1	1.4	PASS
6110.548266	1.2	0.1	1.4	PASS
6113.547329	1.2	0.1	1.4	PASS
6130.042174	1.2	0.1	1.4	PASS
6134.540769	1.2	0.2	1.4	PASS
6125.543580	1.2	0.2	1.4	PASS

In Band


5
0
-10
-20
-30
-40
-50
-60
Level in dBm
5.465
5.6
5.8
6
6.2
6.4
6.6
6.8
7.065
Frequency in GHz
Level
Limit
Fail

Gain


10
8
6
4
2
0
-2
-4
Connector1 in dBi
5.465
5.6
5.8
6
6.2
6.4
6.6
6.8
7.065
Frequency in GHz
Connector1

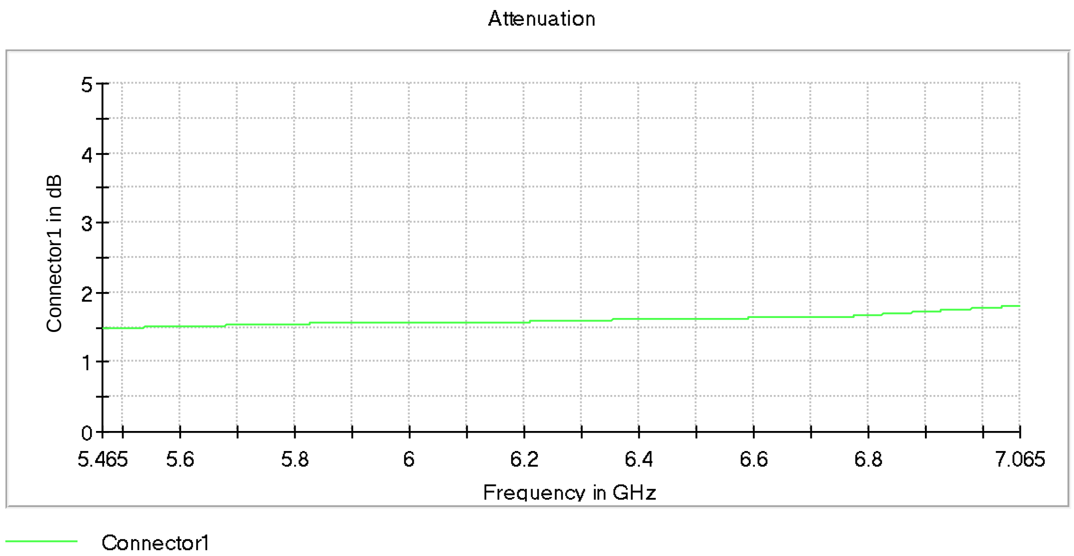


Figure 91: Attenuation

Figure 92: Gain

Figure 93: In Band

2.50 Occupied Channel Bandwidth 99% (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 131: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Limit Min BE L	Band Edge Right	Limit Max BE R	Result
MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	
6265.000000	317.500000	---	320.000000	6106.250000	5925.000000	6423.750000	7125.000000	PASS

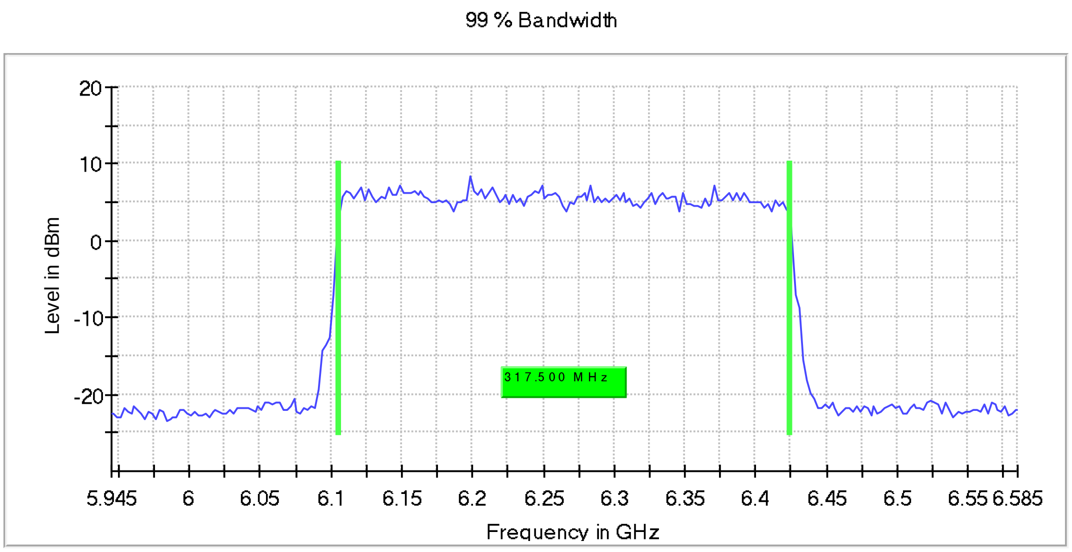


Figure 94: 99 % Bandwidth

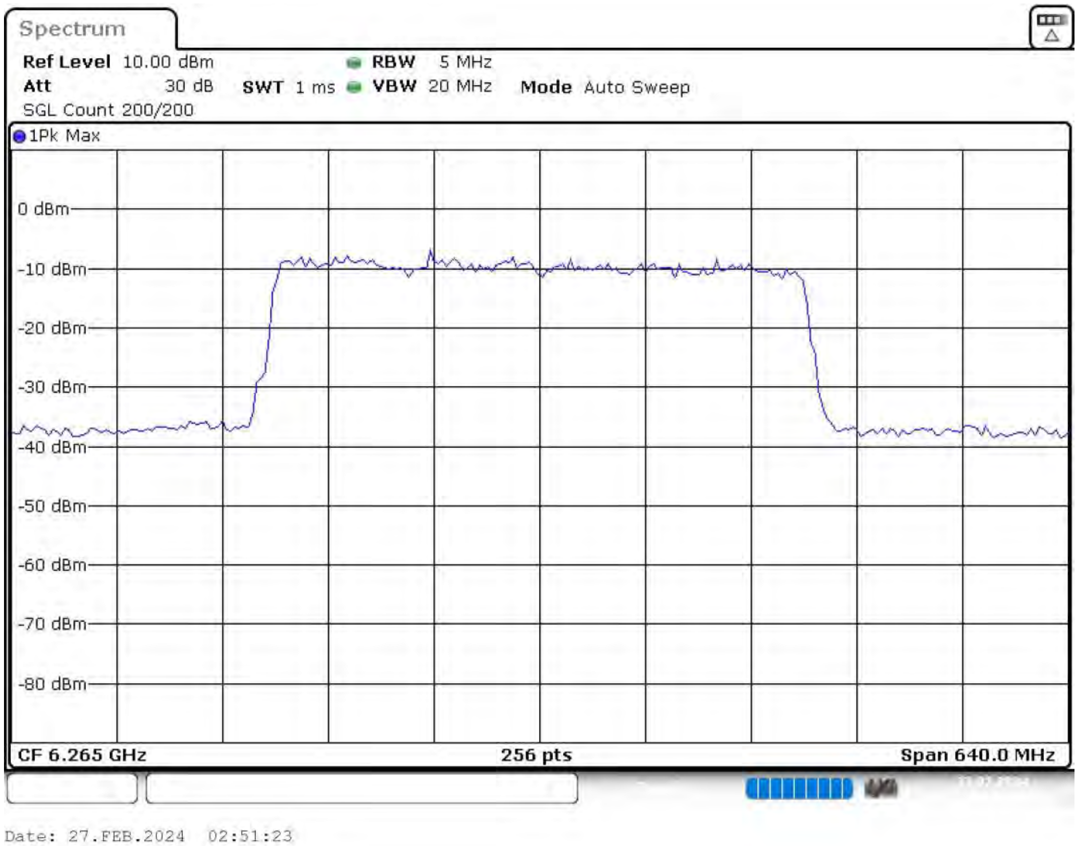


Table 132: Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.94500 GHz	5.94500 GHz
Stop Frequency	6.58500 GHz	6.58500 GHz
Span	640.000 MHz	640.000 MHz
RBW	5.000 MHz	>= 3.200 MHz
VBW	20.000 MHz	>= 15.000 MHz
SweepPoints	256	~ 256
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

2.51 Tx Spurious Emission (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 133: Result

DUT Frequency	Result
MHz	
6265.000000	PASS

Table 134: Final measurements

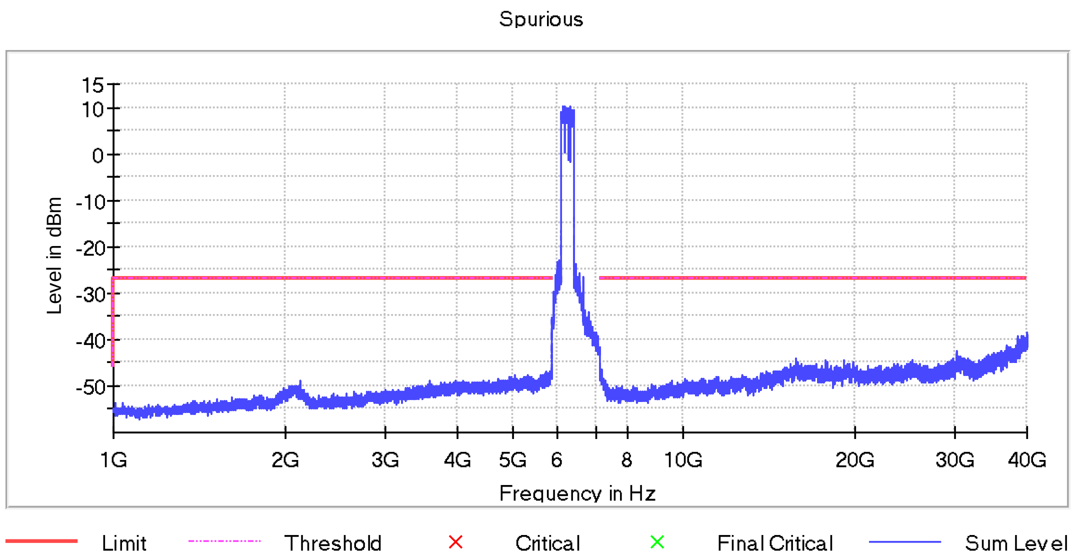
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

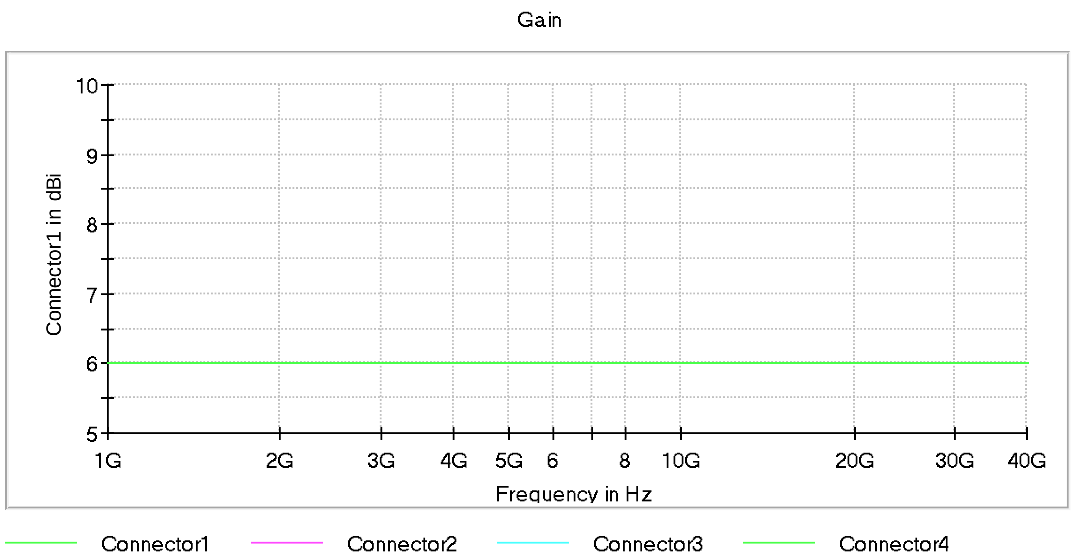
Table 135: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5921.250000	-31.4	4.4	-27.0
5917.750000	-31.7	4.7	-27.0
5912.750000	-31.8	4.8	-27.0
5924.750000	-32.0	5.0	-27.0
5922.250000	-32.1	5.1	-27.0
5921.750000	-32.2	5.2	-27.0
5916.750000	-32.2	5.2	-27.0
5913.250000	-32.2	5.2	-27.0
5918.250000	-32.2	5.2	-27.0
5920.750000	-32.3	5.3	-27.0
5924.250000	-32.3	5.3	-27.0
5923.250000	-32.3	5.3	-27.0
5914.250000	-32.4	5.4	-27.0
5904.250000	-32.6	5.6	-27.0
5909.750000	-32.7	5.7	-27.0

Table 136: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	2	2
5925.000000	7125.000000	2	2
7125.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2





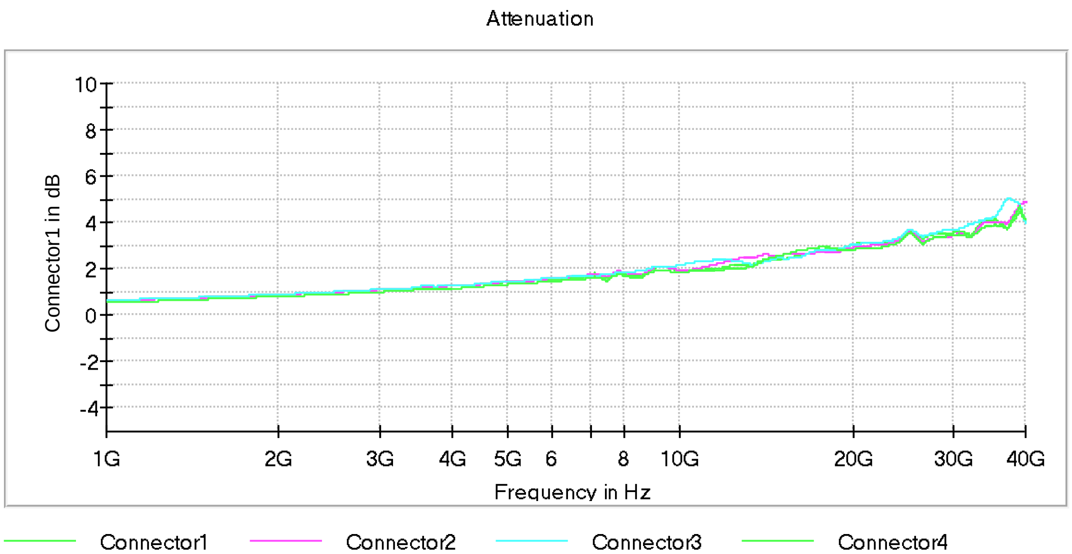


Figure 95: Attenuation

Figure 96: Gain

Figure 97: Spurious

2.52 Emissions in restricted frequency bands (Average) (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 137: Result

DUT Frequency	Result
MHz	
6265.000000	PASS

Table 138: Final measurements

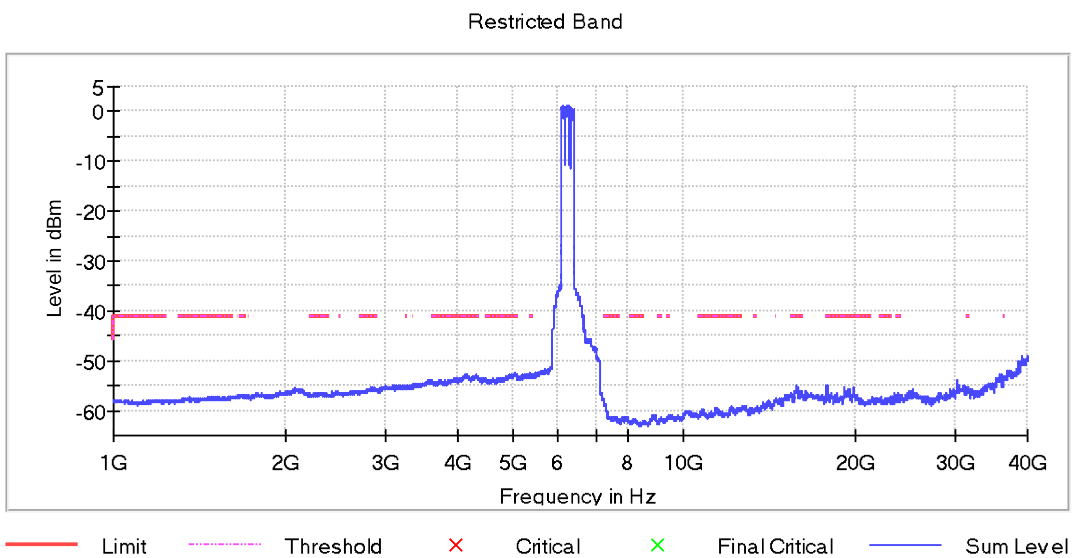
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

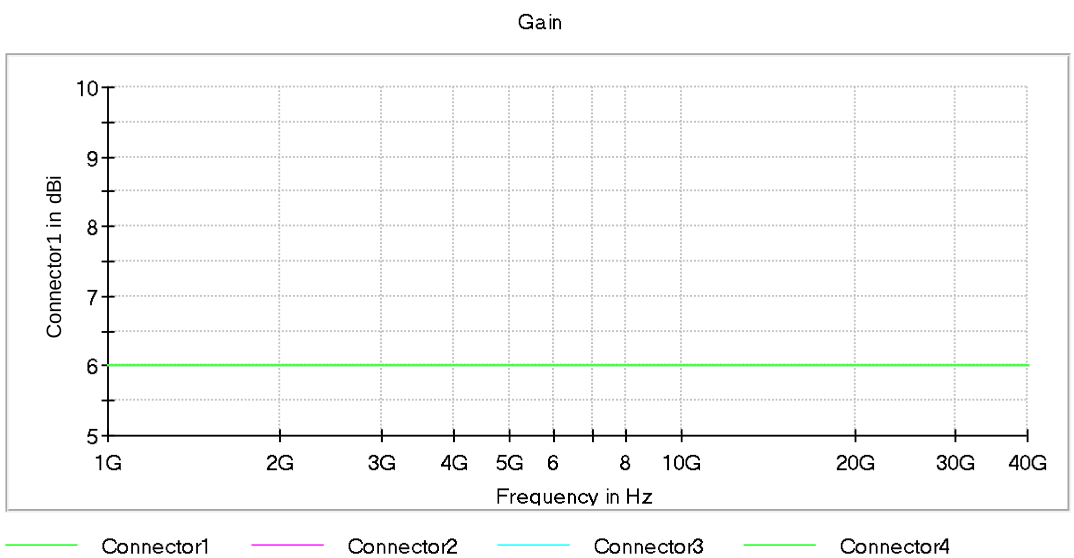
Table 139: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
5377.250000	-52.4	11.2	-41.2
5064.250000	-52.5	11.3	-41.2
5067.250000	-52.6	11.4	-41.2
5355.750000	-52.6	11.4	-41.2
5387.250000	-52.7	11.5	-41.2
5394.750000	-52.7	11.5	-41.2
5354.750000	-52.7	11.5	-41.2
5068.250000	-52.7	11.5	-41.2
5049.750000	-52.7	11.5	-41.2
5050.750000	-52.7	11.5	-41.2
5377.750000	-52.7	11.5	-41.2
5066.750000	-52.7	11.5	-41.2
5038.750000	-52.7	11.5	-41.2
5059.750000	-52.7	11.5	-41.2
5047.250000	-52.7	11.5	-41.2

Table 140: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	1





PROPRIETARY

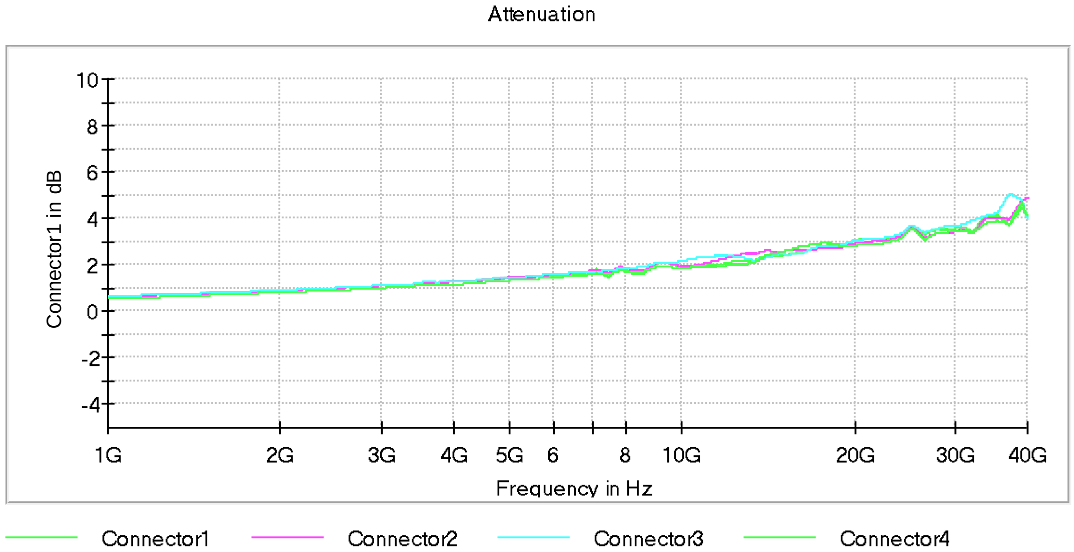


Figure 98: Attenuation

Figure 99: Gain

Figure 100: Restricted Band

2.53 Emissions in restricted frequency bands (Peak) (6265 MHz, 320 MHz, 24.000 dBm)

Customized settings.

Table 141: Result

DUT Frequency	Result
MHz	
6265.000000	PASS

Table 142: Final measurements

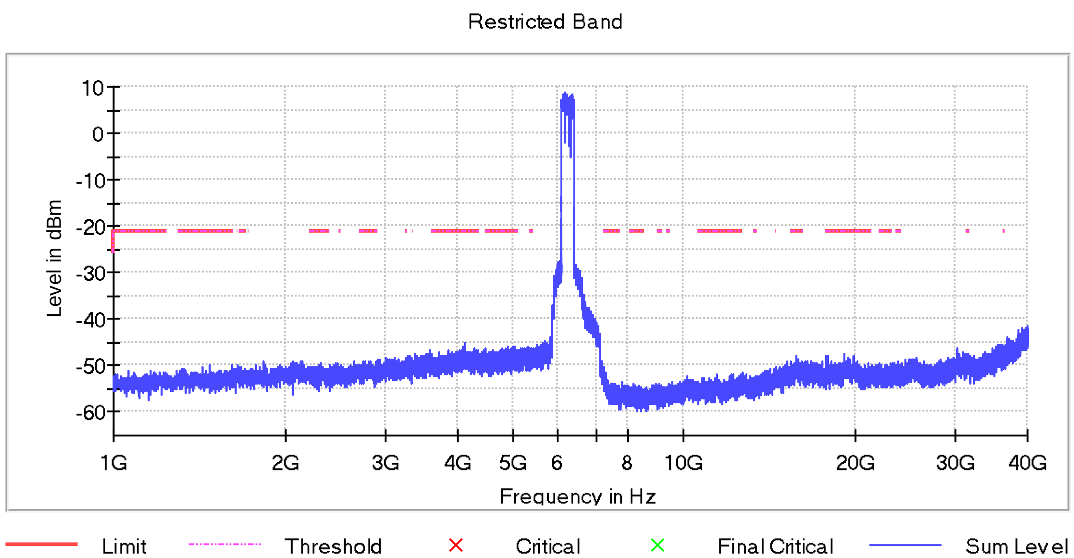
Frequency	Level Pre Measurement	level	Limit	Margin	Result
MHz	dBm	dBm	dBm	dB	
---	---	---	---	---	---

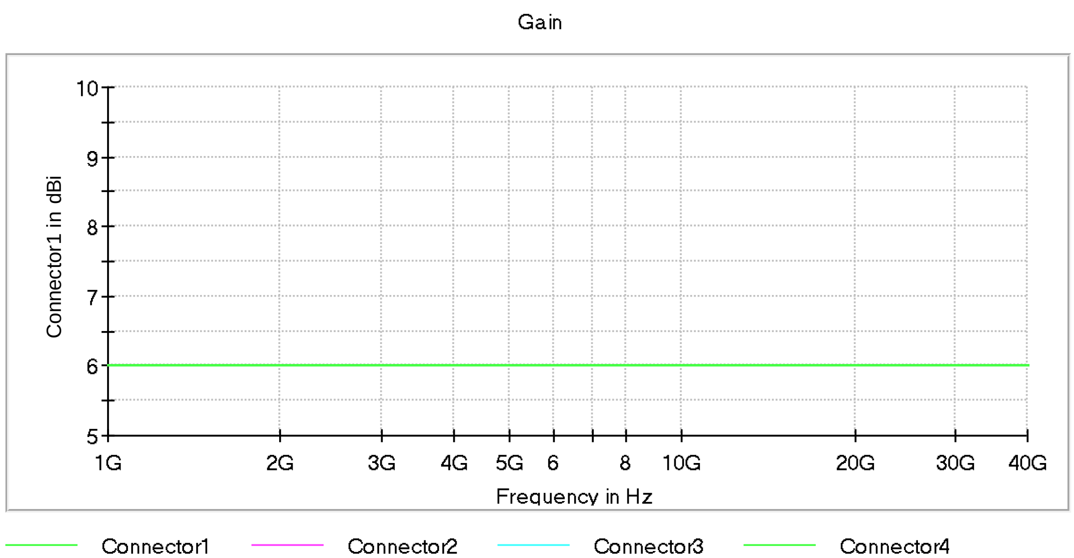
Table 143: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
4131.250000	-45.0	23.8	-21.2
36490.765914	-45.5	24.3	-21.2
5067.250000	-45.8	24.6	-21.2
4999.250000	-45.9	24.7	-21.2
36479.766257	-45.9	24.7	-21.2
4108.250000	-45.9	24.7	-21.2
5030.750000	-46.0	24.8	-21.2
4914.750000	-46.0	24.8	-21.2
4873.750000	-46.1	24.9	-21.2
5445.750000	-46.2	25.0	-21.2
5366.750000	-46.2	25.0	-21.2
5412.250000	-46.2	25.0	-21.2
36486.641042	-46.3	25.1	-21.2
5416.250000	-46.3	25.1	-21.2
5385.750000	-46.4	25.2	-21.2

Table 144: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
1000.000000	5925.000000	1	1
5925.000000	7125.000000	1	1
7125.000000	18000.000000	1	1
18000.000000	40000.000000	1	2





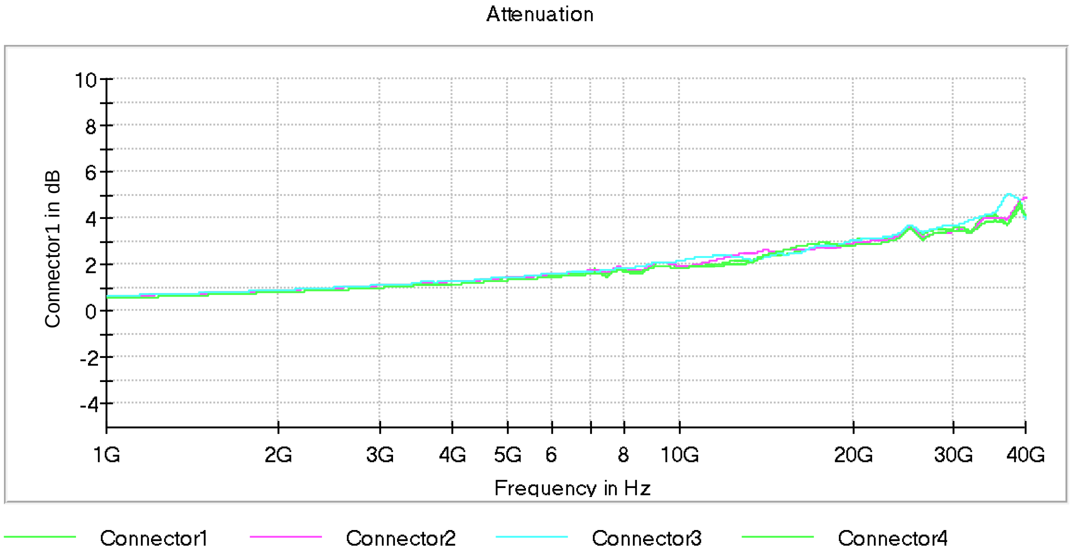


Figure 101: Attenuation

Figure 102: Gain

Figure 103: Restricted Band

2.54 PSD Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Power Spectral Density (SA-2)	5955.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	6195.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	6415.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	5965.000	24.0	40.000000	PASS
Power Spectral Density (SA-2)	6205.000	24.0	40.000000	PASS
Power Spectral Density (SA-2)	6405.000	24.0	40.000000	PASS
Power Spectral Density (SA-2)	5985.000	24.0	80.000000	PASS
Power Spectral Density (SA-2)	6225.000	24.0	80.000000	PASS
Power Spectral Density (SA-2)	6385.000	24.0	80.000000	PASS
Power Spectral Density (SA-2)	6025.000	24.0	160.000000	PASS
Power Spectral Density (SA-2)	6185.000	24.0	160.000000	PASS
Power Spectral Density (SA-2)	6325.000	24.0	160.000000	PASS
Power Spectral Density (SA-2)	6265.000	24.0	320.000000	PASS

Power Spectral Density (SA-2) (5955 MHz; 24.000 dBm; 20 MHz)

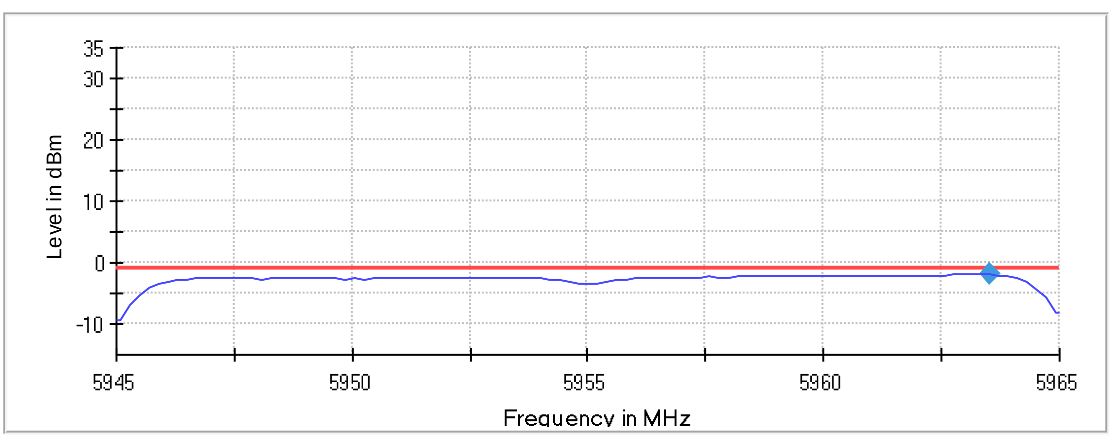
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5955.000000	5963.514851	-1.977	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



Limit PSD Sum Level

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.94500 GHz	5.94500 GHz
Stop Frequency	5.96500 GHz	5.96500 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
Sweeptime	1.000 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

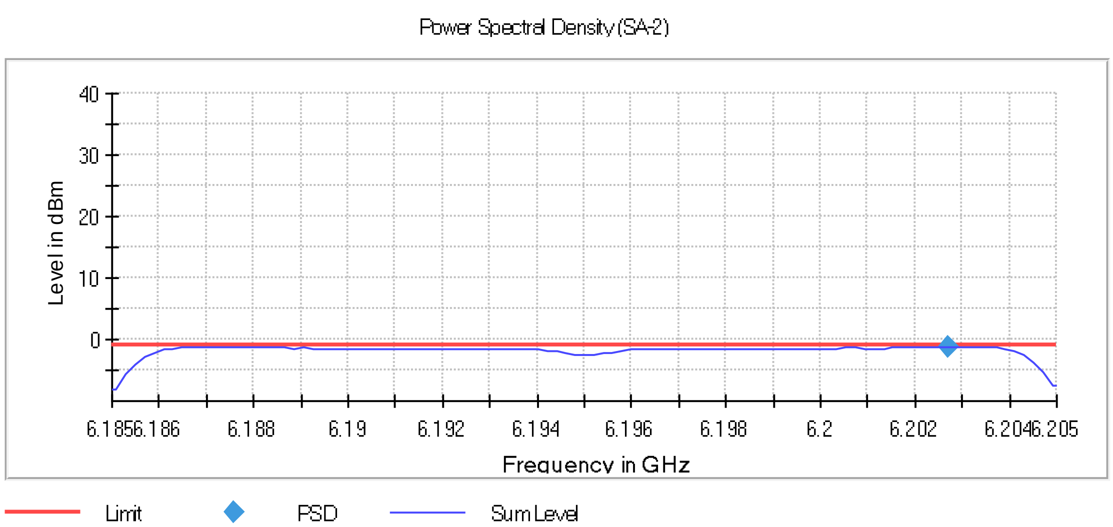
Power Spectral Density (SA-2) (6195 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6195.000000	6202.722772	-1.217	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



Power Spectral Density (SA-2) (6415 MHz; 24.000 dBm; 20 MHz)

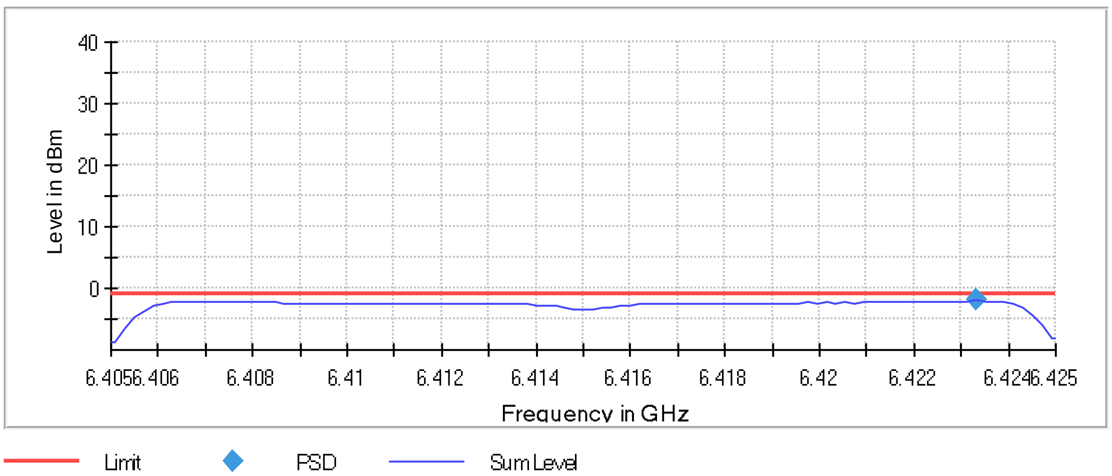
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6415.000000	6423.316832	-2.001	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



Power Spectral Density (SA-2) (5965 MHz; 24.000 dBm; 40 MHz)

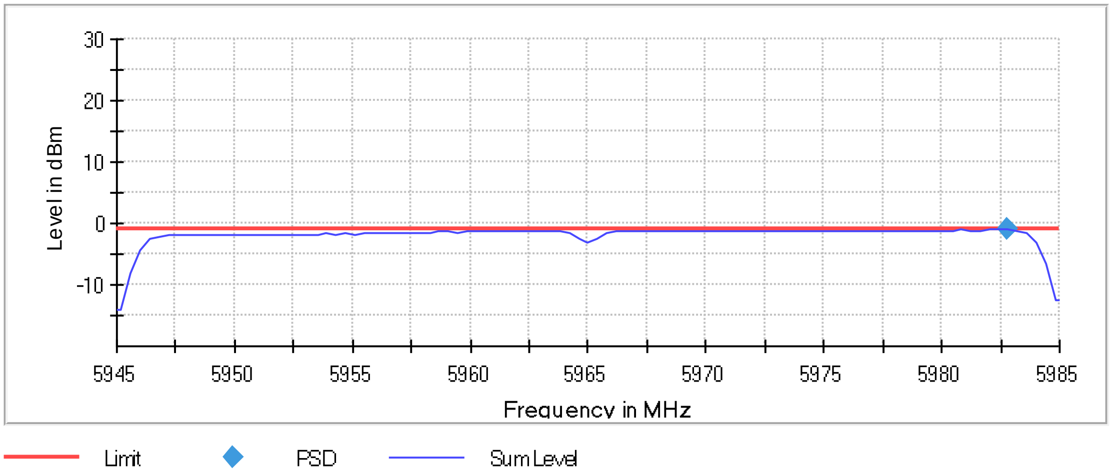
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5965.000000	5982.821782	-1.032	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



Power Spectral Density (SA-2) (6205 MHz; 24.000 dBm; 40 MHz)

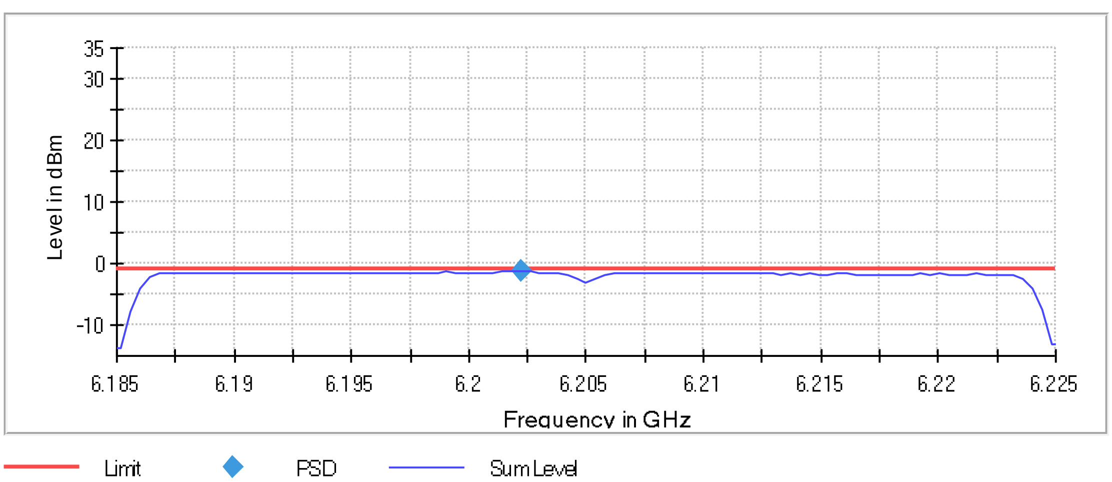
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6205.000000	6202.227723	-1.373	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



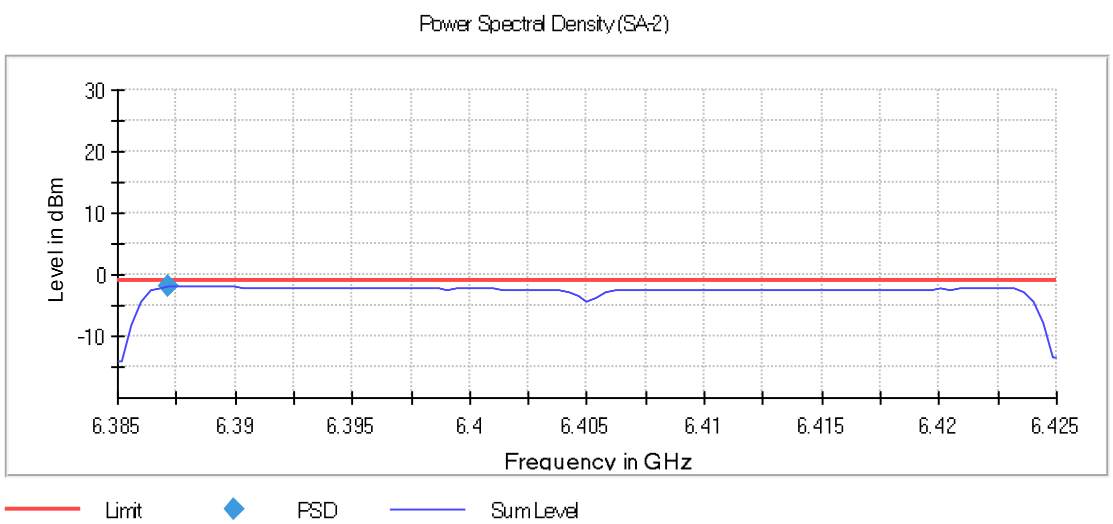
Power Spectral Density (SA-2) (6405 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6405.000000	6387.178218	-1.853	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



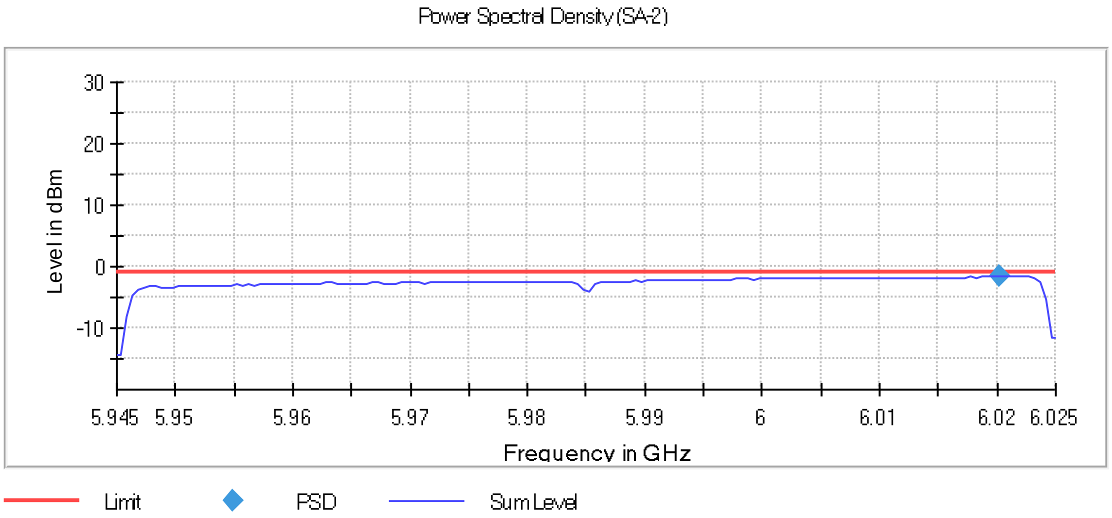
Power Spectral Density (SA-2) (5985 MHz; 24.000 dBm; 80 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5985.000000	6020.250000	-1.602	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



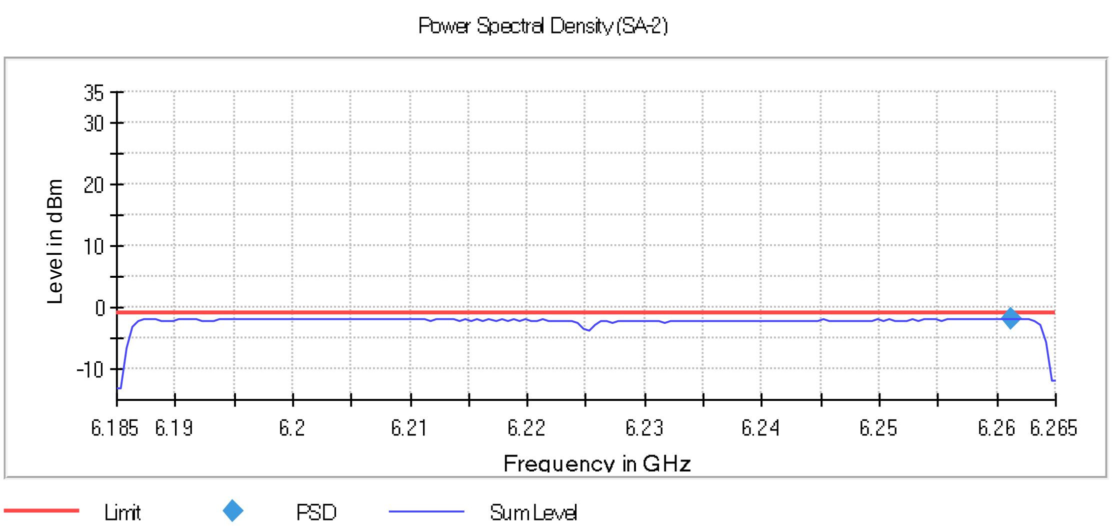
Power Spectral Density (SA-2) (6225 MHz; 24.000 dBm; 80 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6225.000000	6261.250000	-1.757	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



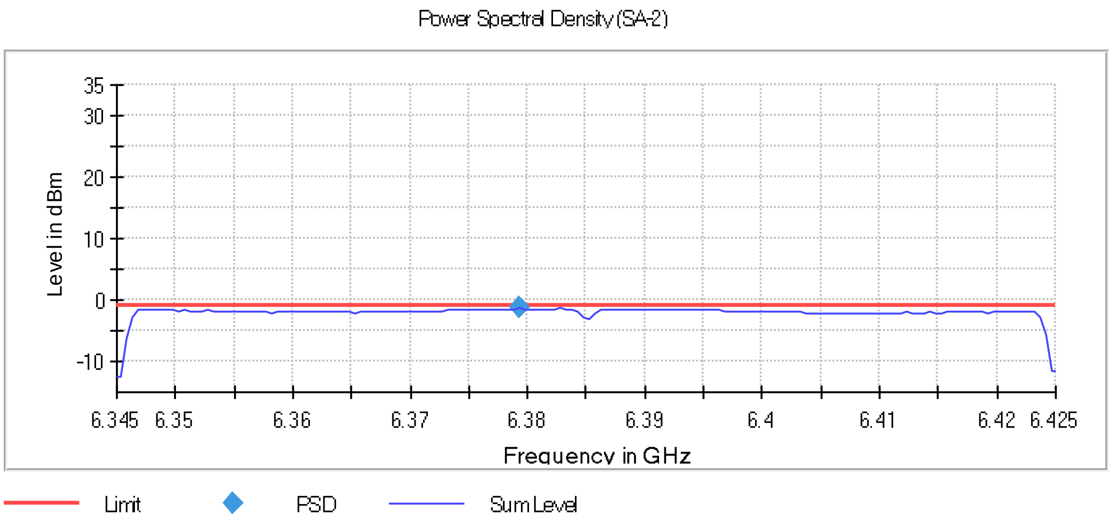
Power Spectral Density (SA-2) (6385 MHz; 24.000 dBm; 80 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6385.000000	6379.250000	-1.391	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



Power Spectral Density (SA-2) (6025 MHz; 24.000 dBm; 160 MHz)

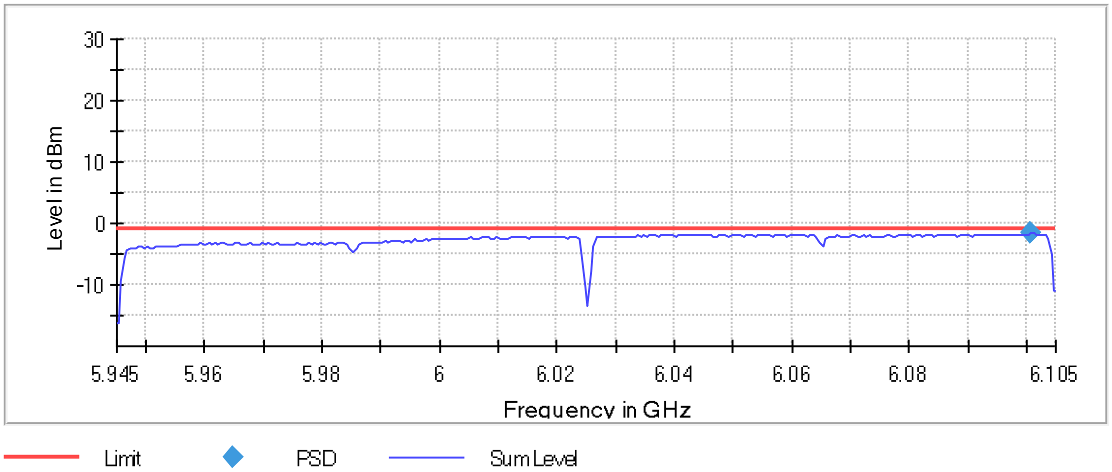
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6025.000000	6100.750000	-1.692	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



Power Spectral Density (SA-2) (6185 MHz; 24.000 dBm; 160 MHz)

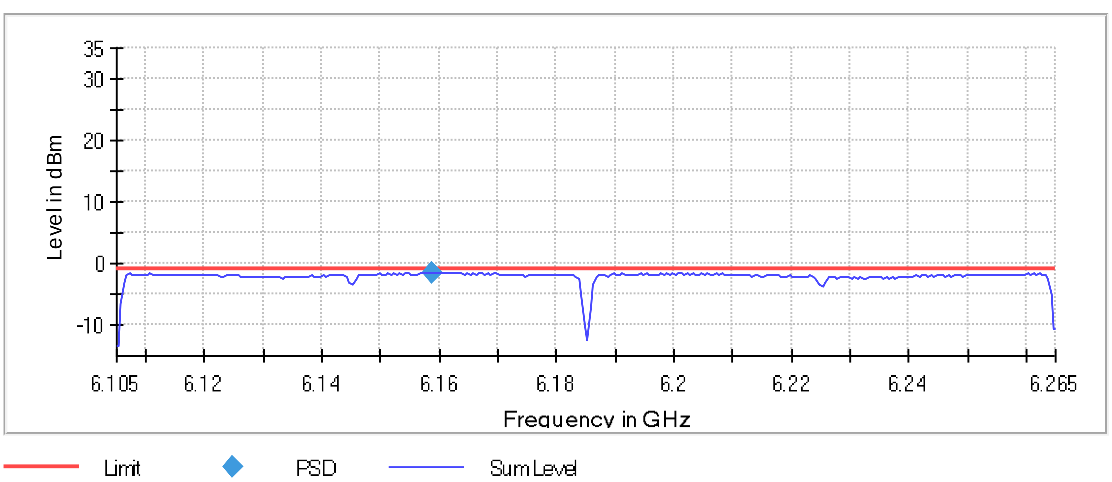
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6185.000000	6158.750000	-1.504	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



Power Spectral Density (SA-2) (6325 MHz; 24.000 dBm; 160 MHz)

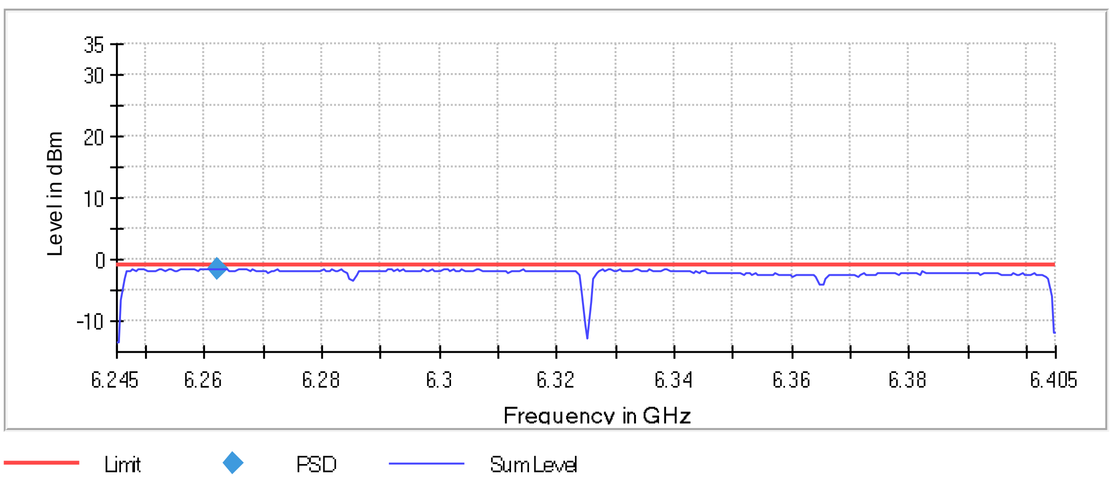
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6325.000000	6262.250000	-1.501	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used

Power Spectral Density (SA-2)



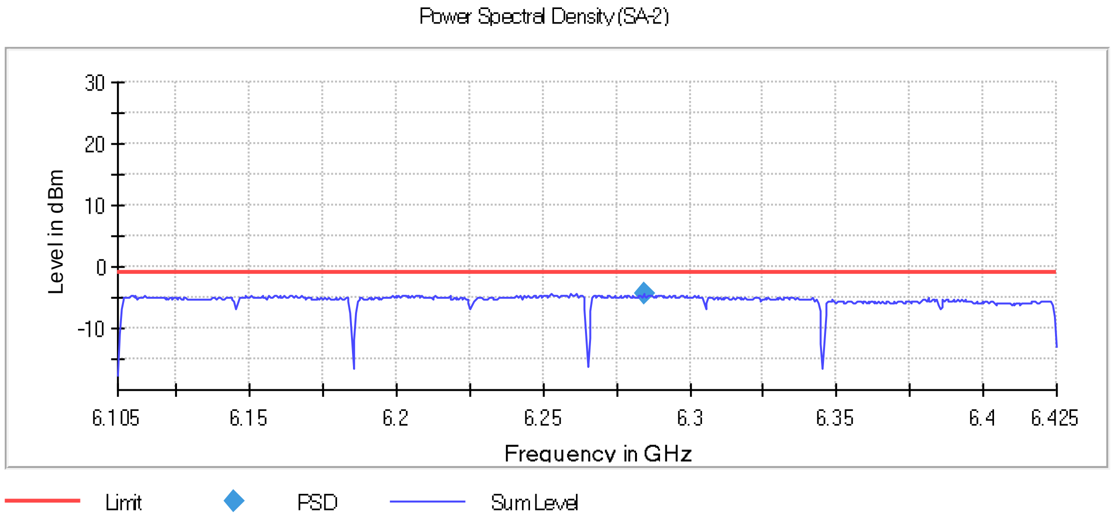
Power Spectral Density (SA-2) (6265 MHz; 24.000 dBm; 320 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6265.000000	6284.250000	-4.487	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



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