



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	TR9084_03
Date of Tests	27 February; 16 April; 7 November 2024
Report Issue Date	7 November 2024

Test Personnel

Testing performed by	Evan Hartzell
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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.



Revision History		
Revision	Description	Date
01	Original Report Release	9 May 2024
02	Added test settings for Mask measurements.	1 October 2024
03	Amended Measurement Settings for In Band Emissions	7 November 2024

1 UNII-6 Band

1.1 Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	6435.000	24.0	20.000000	PASS
RF output power	6435.000	24.0	20.000000	PASS
In-Band Emissions	6435.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	6435.000	24.0	20.000000	PASS
Frequency Stability	6435.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	6475.000	24.0	20.000000	PASS
In-Band Emissions	6475.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	6475.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	6515.000	24.0	20.000000	PASS
In-Band Emissions	6515.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	6515.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	6445.000	24.0	40.000000	PASS
In-Band Emissions	6445.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	6445.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	6485.000	24.0	40.000000	PASS
In-Band Emissions	6485.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	6485.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	6465.000	24.0	80.000000	PASS
In-Band Emissions	6465.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	6465.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	6505.000	24.0	160.000000	PASS
In-Band Emissions	6505.000	24.0	160.000000	PASS
Occupied Channel Bandwidth 99%	6505.000	24.0	160.000000	PASS
Tx Spurious Emission	6505.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Average)	6505.000	24.0	160.000000	PASS
Emissions in restricted frequency bands (Peak)	6505.000	24.0	160.000000	PASS

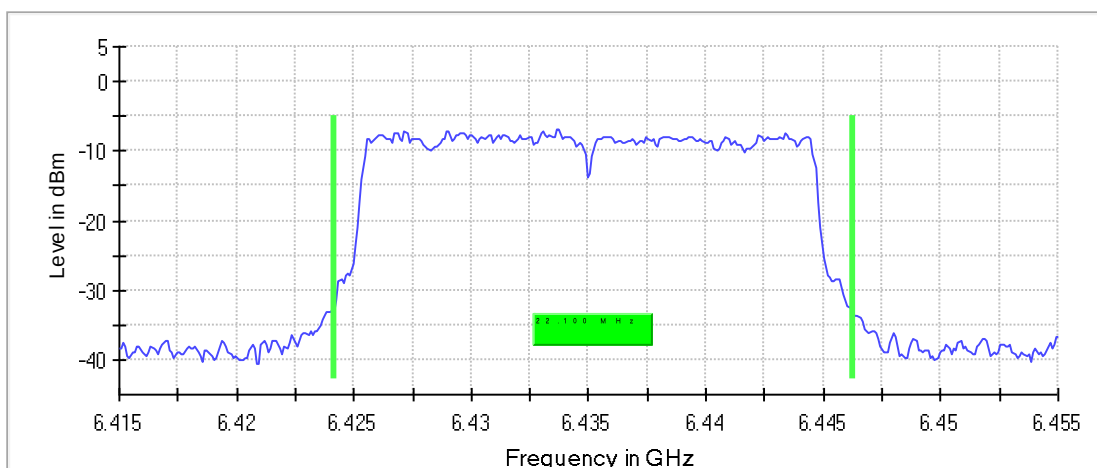
Emission Bandwidth 26 dB (6435 MHz; 24.000 dBm; 20 MHz)

26 dB Bandwidth

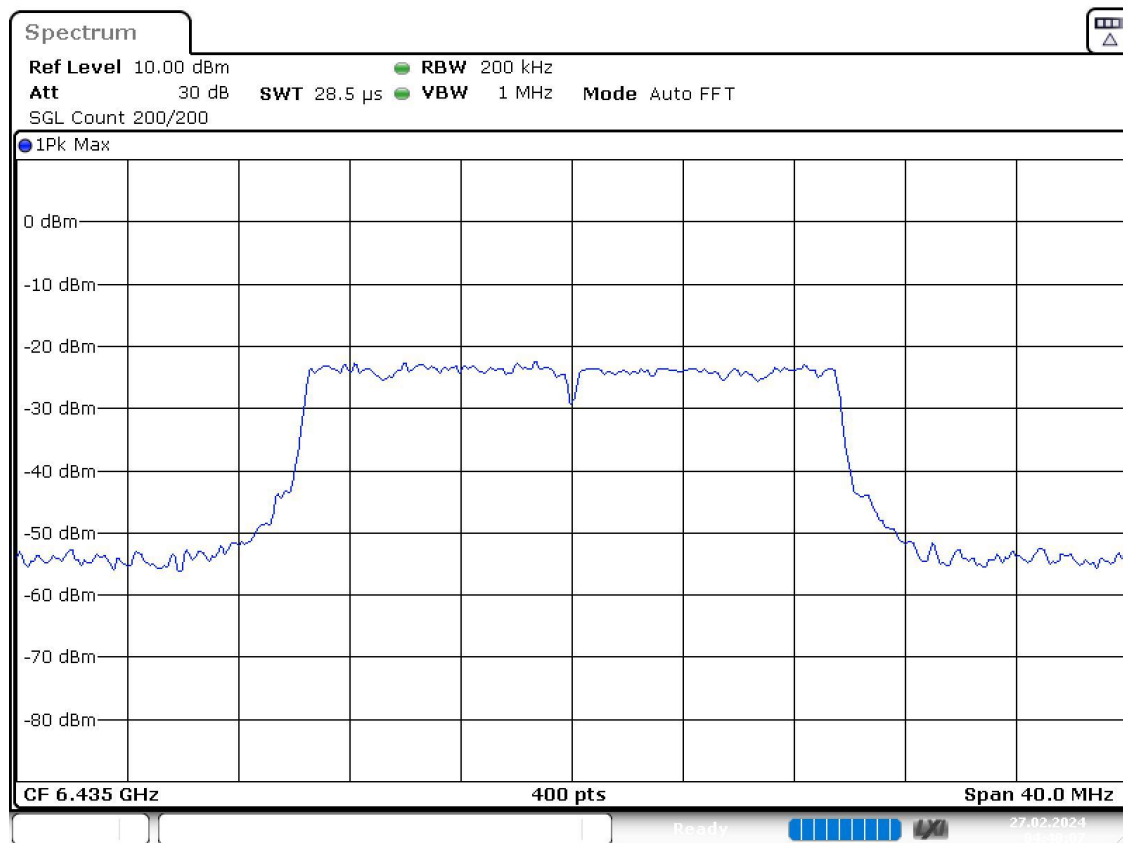
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6435.000000	22.100000	---	320.000000	6424.150000	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6435.000000	6446.250000	---	-6.9	PASS

26 dB Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.41500 GHz	6.41500 GHz
Stop Frequency	6.45500 GHz	6.45500 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	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

RF output power (6435 MHz; 24.000 dBm; 20 MHz)**Result**

DUT Frequency (MHz)	Gated EIRP (dBm)	Limit Max (dBm)	Gated RMS (dBm)	DutyCycle (%)	Result
6435.000000	14.7	24.0	14.7	99.717	PASS

OSP PowerMeter settings

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

In-Band Emissions (6435 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
6435.000000	PASS

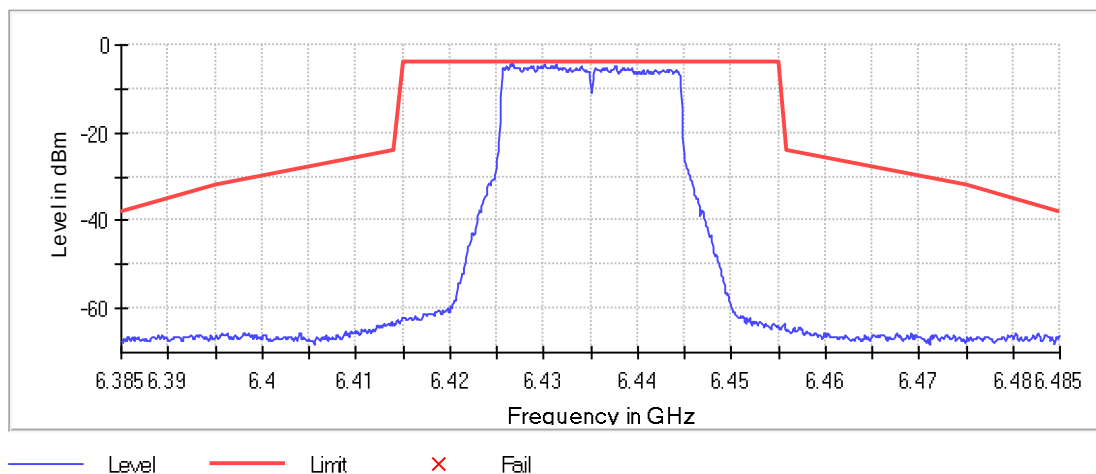
Inband Peak

Frequency (MHz)	Level (dBm)
6426.750000	-4.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6426.750000	-4.0	0.0	-4.0	PASS
6426.650000	-4.2	0.2	-4.0	PASS
6426.450000	-4.5	0.4	-4.0	PASS
6431.350000	-4.6	0.5	-4.0	PASS
6430.150000	-4.6	0.5	-4.0	PASS
6430.050000	-4.7	0.6	-4.0	PASS
6426.550000	-4.7	0.7	-4.0	PASS
6430.950000	-4.8	0.7	-4.0	PASS
6426.350000	-4.8	0.8	-4.0	PASS
6429.650000	-4.9	0.8	-4.0	PASS
6426.850000	-4.9	0.8	-4.0	PASS
6428.850000	-4.9	0.8	-4.0	PASS
6431.250000	-4.9	0.8	-4.0	PASS
6437.650000	-4.9	0.8	-4.0	PASS
6429.350000	-4.9	0.9	-4.0	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.38500 GHz	6.38500 GHz
Stop Frequency	6.48500 GHz	6.48500 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	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	Sweep	Sweep
Preamp	off	off

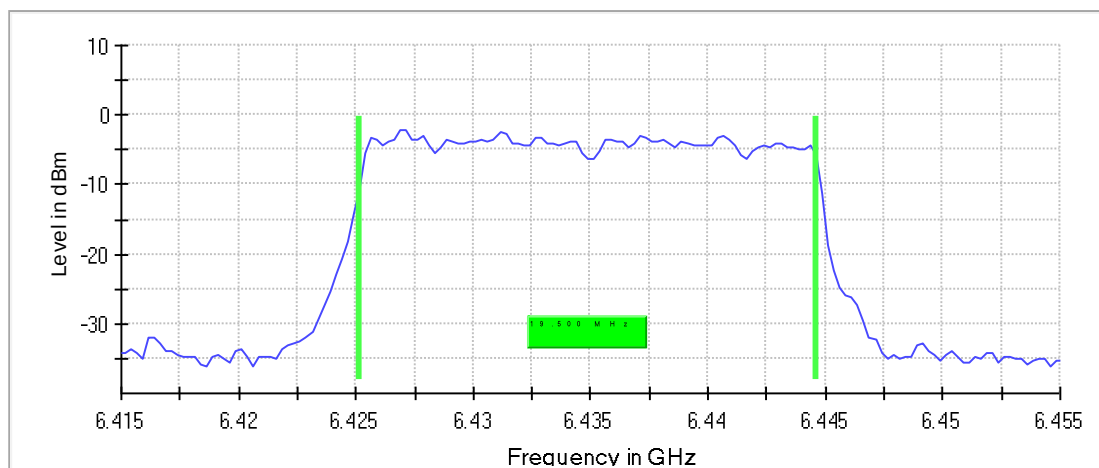
Occupied Channel Bandwidth 99% (6435 MHz; 24.000 dBm; 20 MHz)

99 % Bandwidth

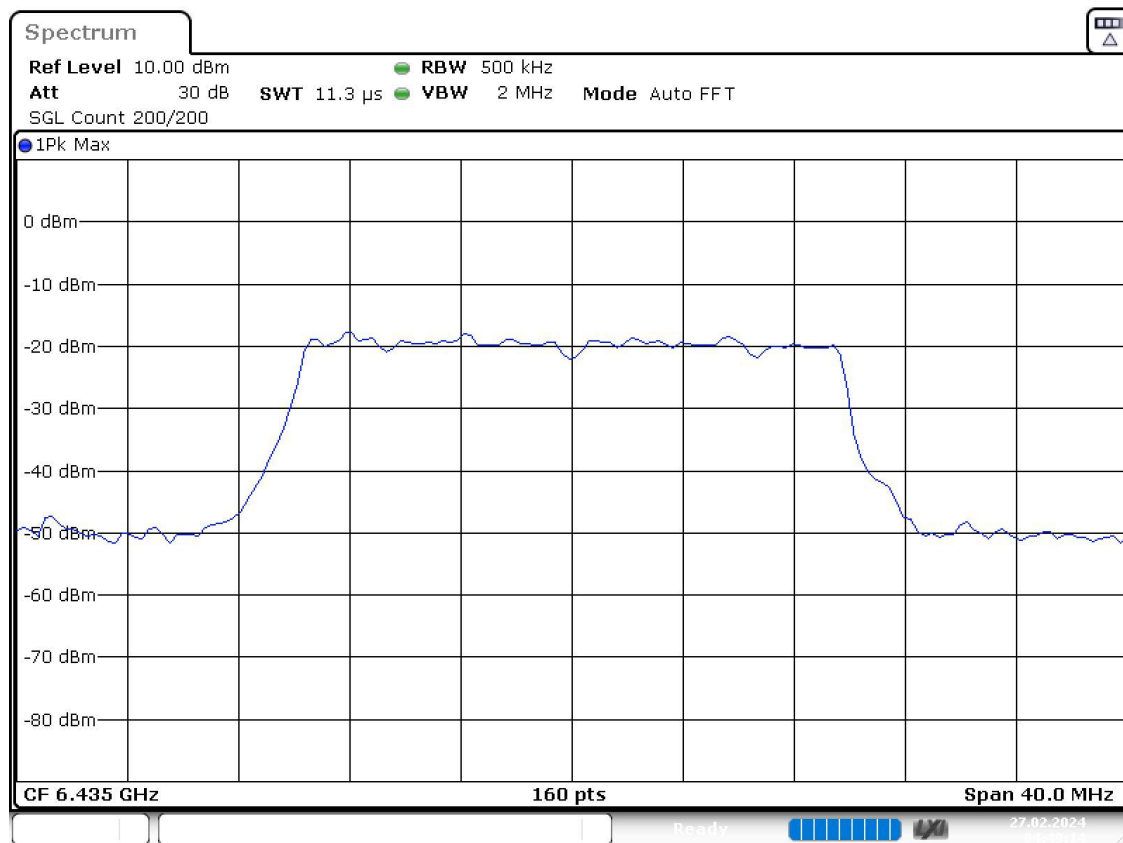
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6435.000000	19.500000	---	320.000000	6425.125000	5925.000000

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6435.000000	6444.625000	7125.000000	PASS

99 %Bandwidth



Bandwidth



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Measurement

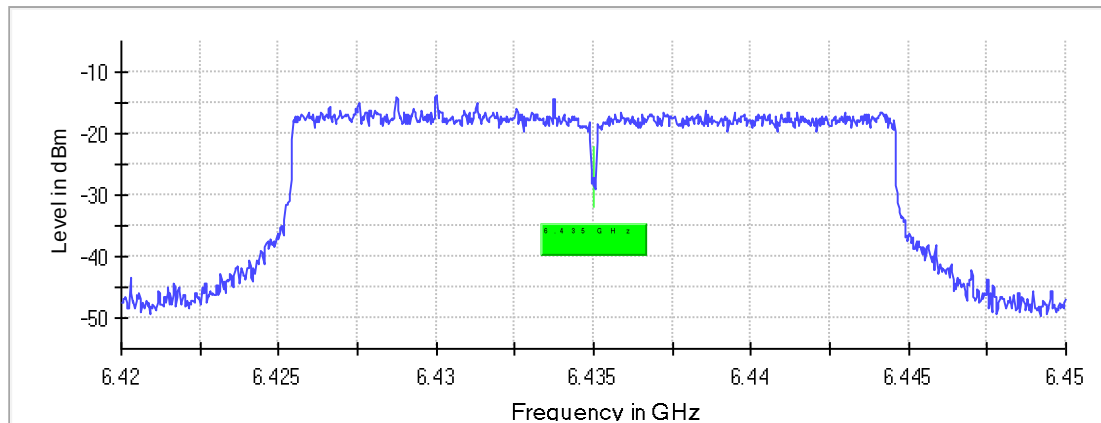
Setting	Instrument Value	Target Value
Start Frequency	6.41500 GHz	6.41500 GHz
Stop Frequency	6.45500 GHz	6.45500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	160	~ 160
SweepTime	11.344 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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

Frequency Stability (6435 MHz; 24.000 dBm; 20 MHz)

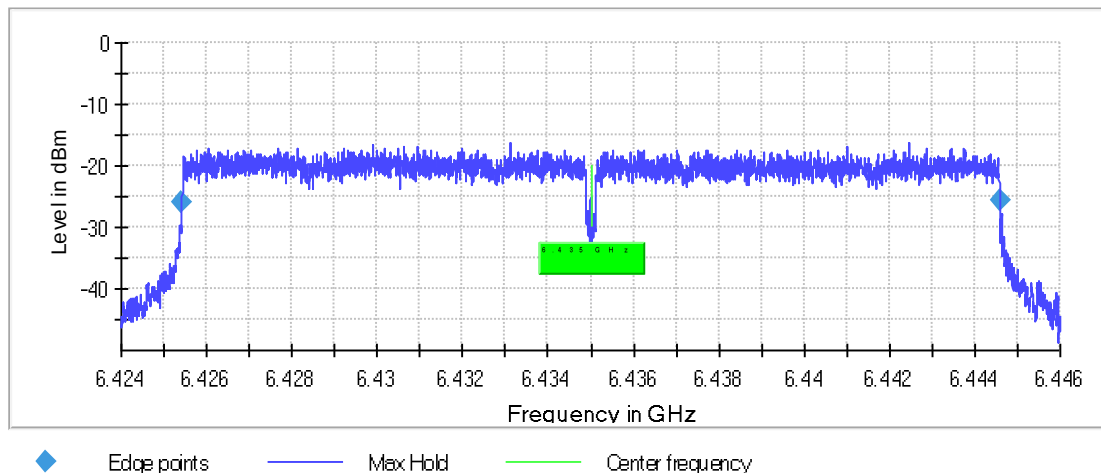
Result

DUT Frequency (MHz)	Frequency (MHz)	Difference (ppm)	Frequency Difference (kHz)	Limit Min (MHz)	Limit Max (MHz)	Result
6435.000000	6435.002200	0.342	2.199500	---	---	PASS

Frequency stability Pre



Frequency stability



Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.42400 GHz	6.42400 GHz
Stop Frequency	6.44600 GHz	6.44600 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 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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

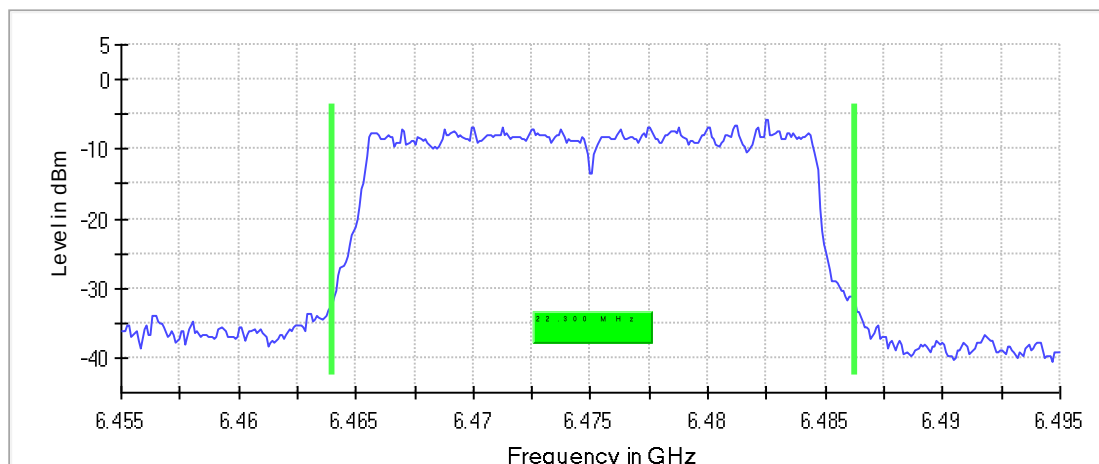
Emission Bandwidth 26 dB (6475 MHz; 24.000 dBm; 20 MHz)

26 dB Bandwidth

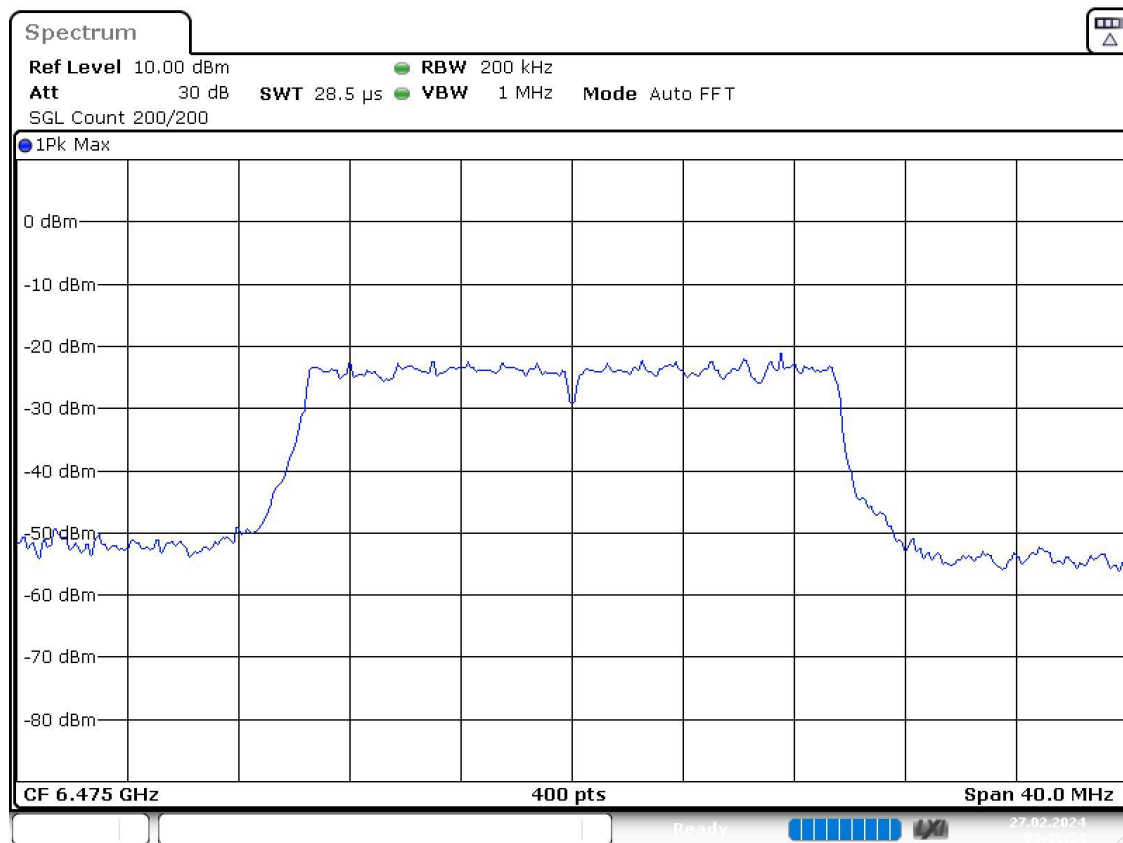
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6475.000000	22.300000	---	320.000000	6463.950000	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6475.000000	6486.250000	---	-5.6	PASS

26 dB Bandwidth



Bandwidth



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In-Band Emissions (6475 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
6475.000000	PASS

Inband Peak

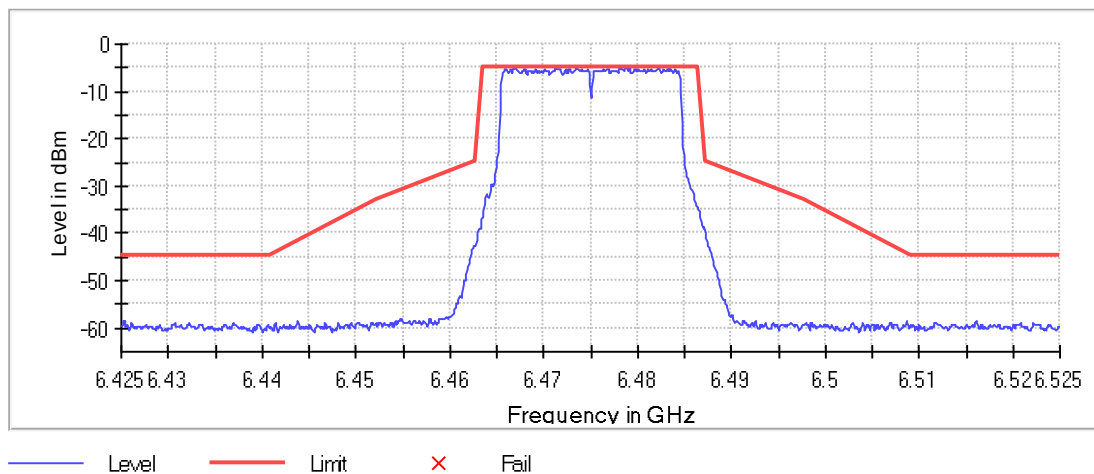
Frequency (MHz)	Level (dBm)
6467.050000	-4.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6466.950000	-4.9	0.1	-4.8	PASS
6473.550000	-4.9	0.1	-4.8	PASS
6478.750000	-5.0	0.2	-4.8	PASS
6471.250000	-5.0	0.2	-4.8	PASS
6482.250000	-5.0	0.2	-4.8	PASS
6478.150000	-5.0	0.2	-4.8	PASS
6478.850000	-5.0	0.2	-4.8	PASS

6479.150000	-5.0	0.2	-4.8	PASS
6480.150000	-5.1	0.3	-4.8	PASS
6483.550000	-5.1	0.3	-4.8	PASS
6479.650000	-5.1	0.3	-4.8	PASS
6473.450000	-5.1	0.3	-4.8	PASS
6482.350000	-5.1	0.3	-4.8	PASS
6479.750000	-5.1	0.3	-4.8	PASS
6483.250000	-5.1	0.3	-4.8	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.42500 GHz	6.42500 GHz
Stop Frequency	6.52500 GHz	6.52500 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

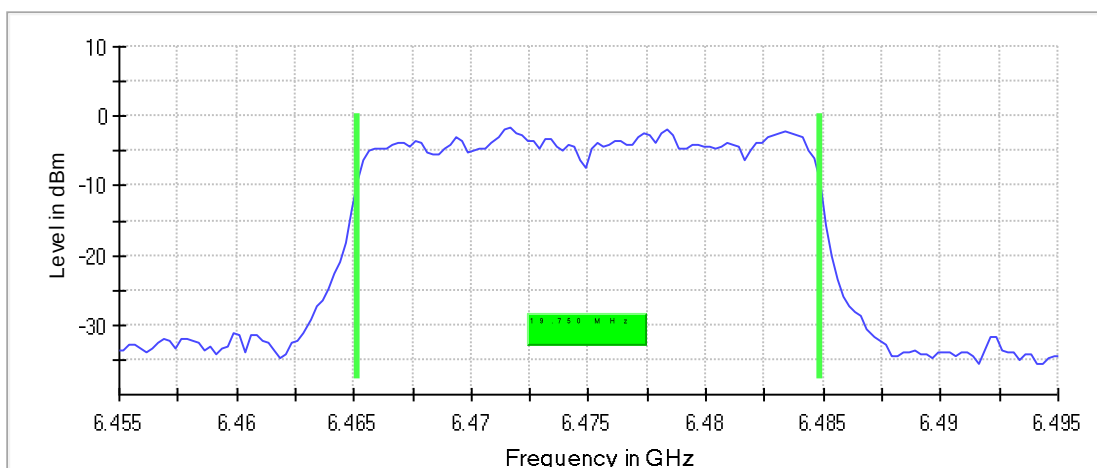
Occupied Channel Bandwidth 99% (6475 MHz; 24.000 dBm; 20 MHz)

99 % Bandwidth

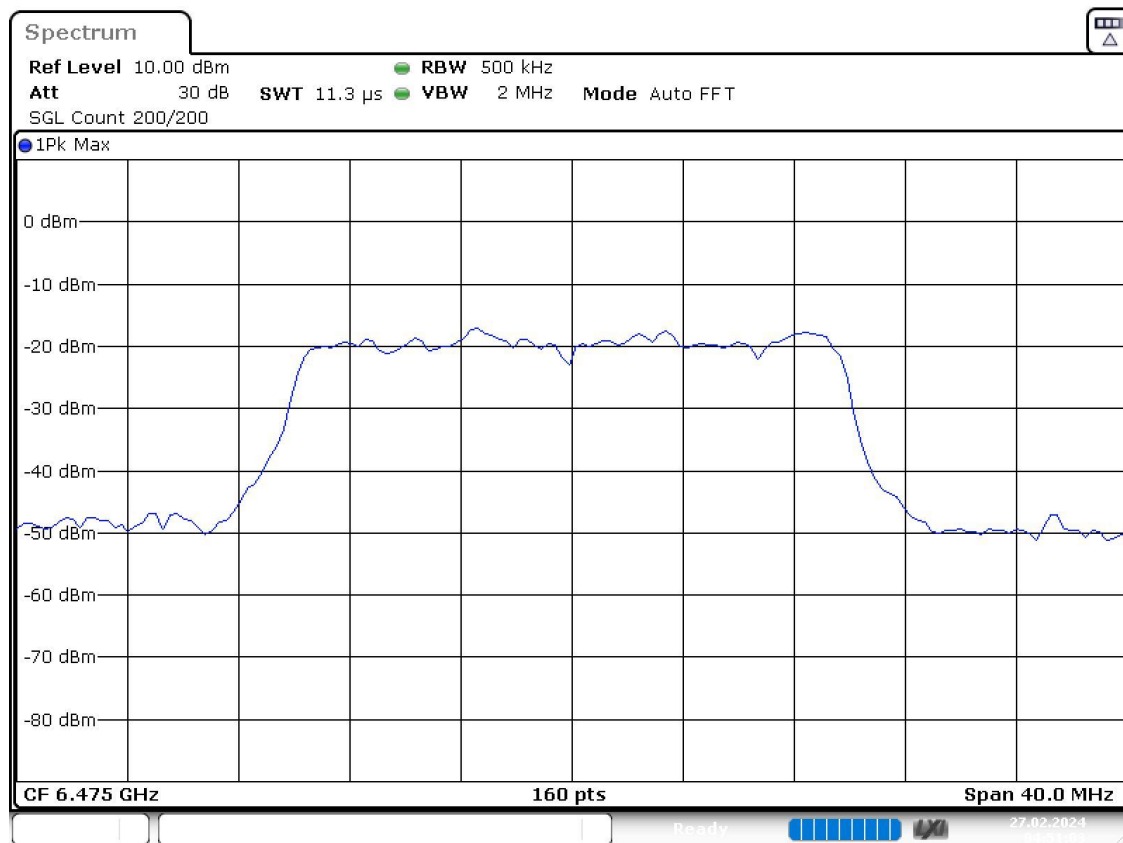
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6475.000000	19.750000	---	320.000000	6465.125000	5925.000000

(DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6475.000000	6484.875000	7125.000000	PASS

99 %Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.45500 GHz	6.45500 GHz
Stop Frequency	6.49500 GHz	6.49500 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 μ s	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

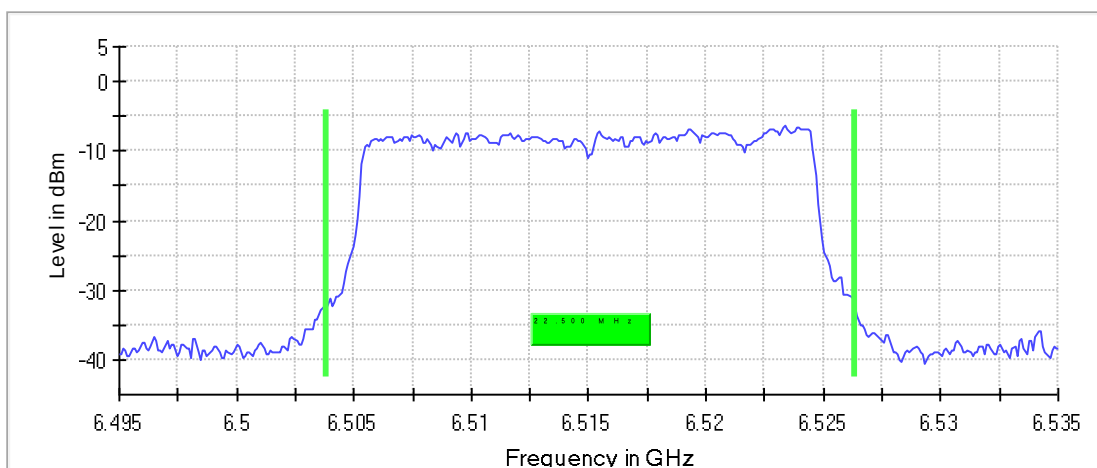
Emission Bandwidth 26 dB (6515 MHz; 24.000 dBm; 20 MHz)

26 dB Bandwidth

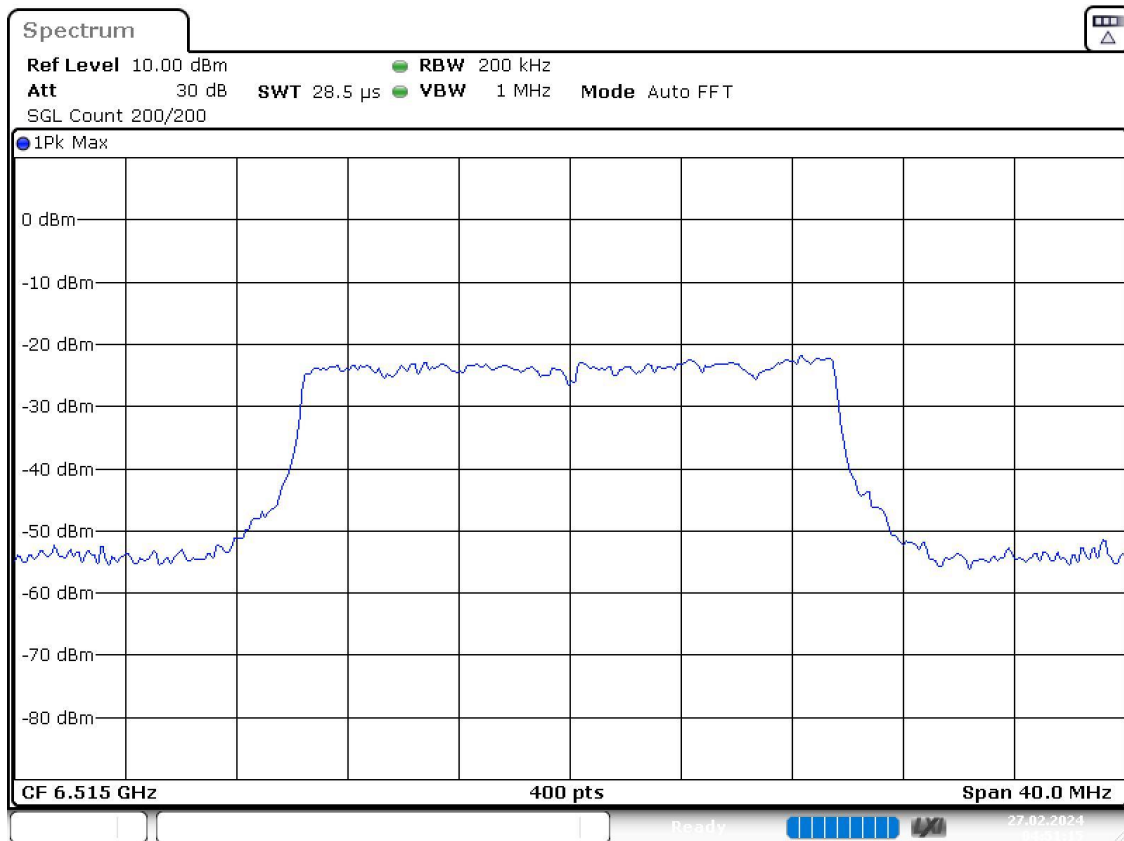
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6515.000000	22.500000	---	320.000000	6503.850000	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6515.000000	6526.350000	---	-6.2	PASS

26 dB Bandwidth



Bandwidth



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In-Band Emissions (6515 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
6515.000000	PASS

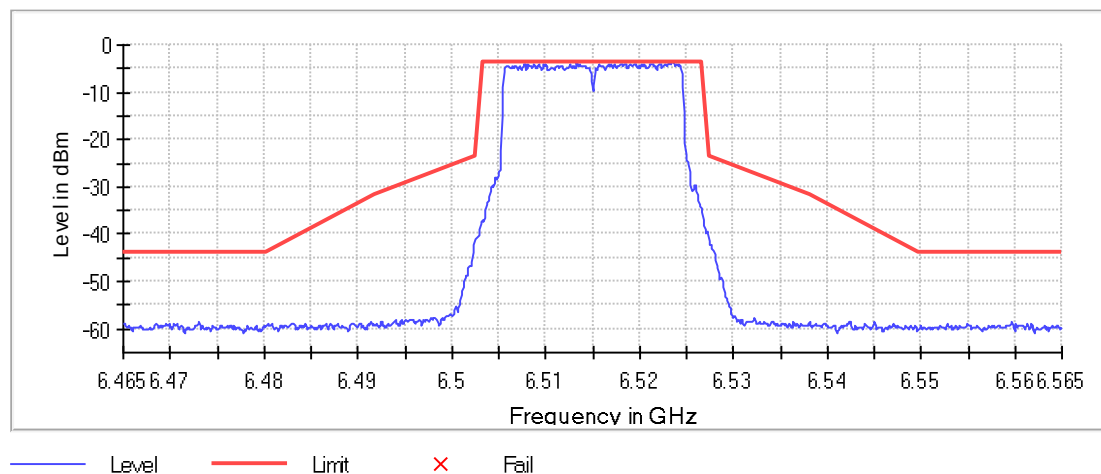
Inband Peak

Frequency (MHz)	Level (dBm)
6513.350000	-3.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6513.350000	-3.7	0.0	-3.7	PASS
6523.150000	-3.7	0.0	-3.7	PASS
6523.250000	-3.8	0.1	-3.7	PASS
6523.450000	-3.8	0.1	-3.7	PASS
6523.650000	-3.8	0.1	-3.7	PASS
6523.550000	-3.9	0.2	-3.7	PASS
6518.050000	-3.9	0.2	-3.7	PASS
6523.750000	-3.9	0.2	-3.7	PASS
6513.250000	-3.9	0.2	-3.7	PASS
6522.150000	-3.9	0.2	-3.7	PASS
6508.750000	-3.9	0.3	-3.7	PASS
6520.550000	-4.0	0.3	-3.7	PASS
6523.350000	-4.1	0.4	-3.7	PASS
6522.750000	-4.1	0.4	-3.7	PASS
6509.750000	-4.1	0.4	-3.7	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.46500 GHz	6.46500 GHz
Stop Frequency	6.56500 GHz	6.56500 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

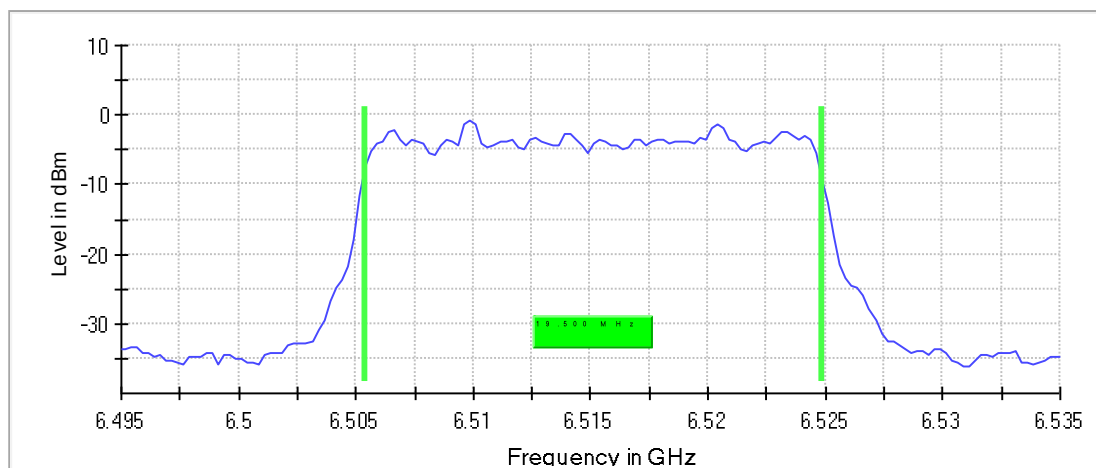
Occupied Channel Bandwidth 99% (6515 MHz; 24.000 dBm; 20 MHz)

99 % Bandwidth

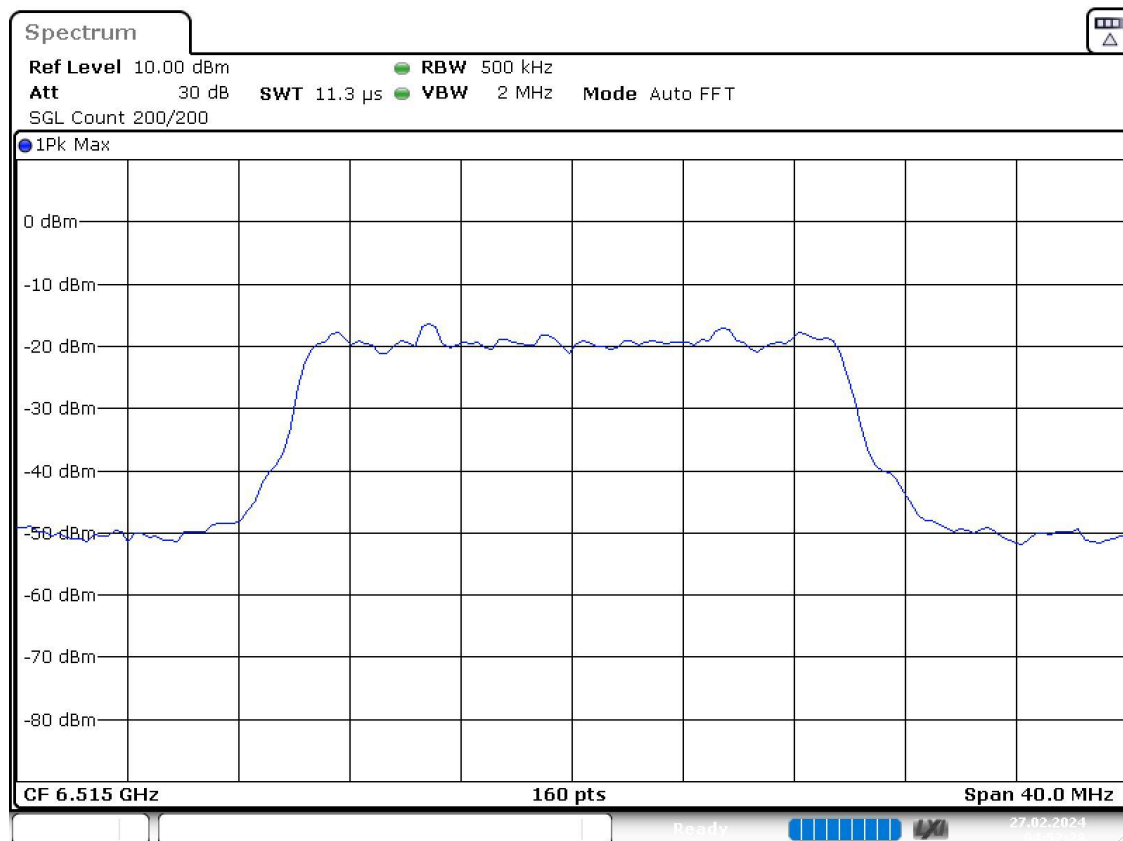
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6515.000000	19.500000	---	320.000000	6505.375000	5925.000000

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6515.000000	6524.875000	7125.000000	PASS

99 %Bandwidth



Bandwidth



Date: 27.FEB.2024 04:52:29

Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.49500 GHz	6.49500 GHz
Stop Frequency	6.53500 GHz	6.53500 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

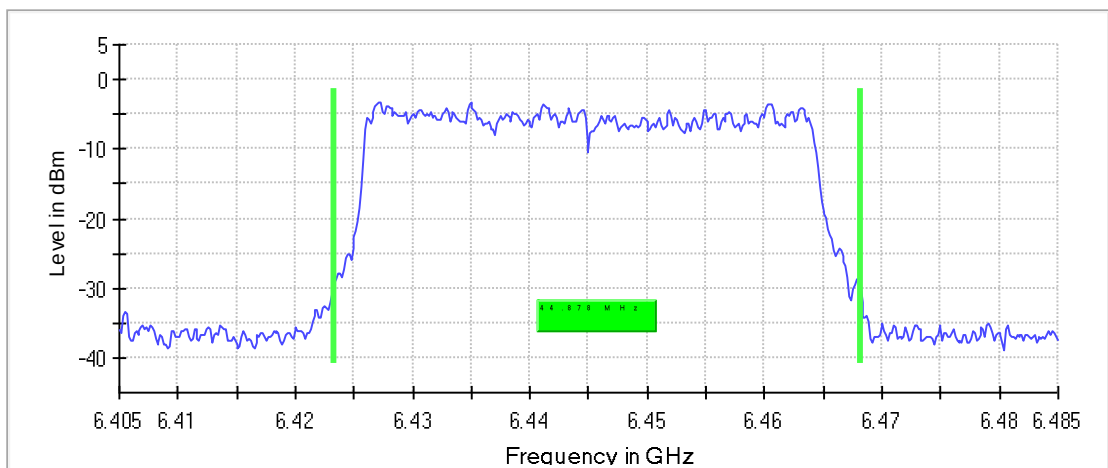
Emission Bandwidth 26 dB (6445 MHz; 24.000 dBm; 40 MHz)

26 dB Bandwidth

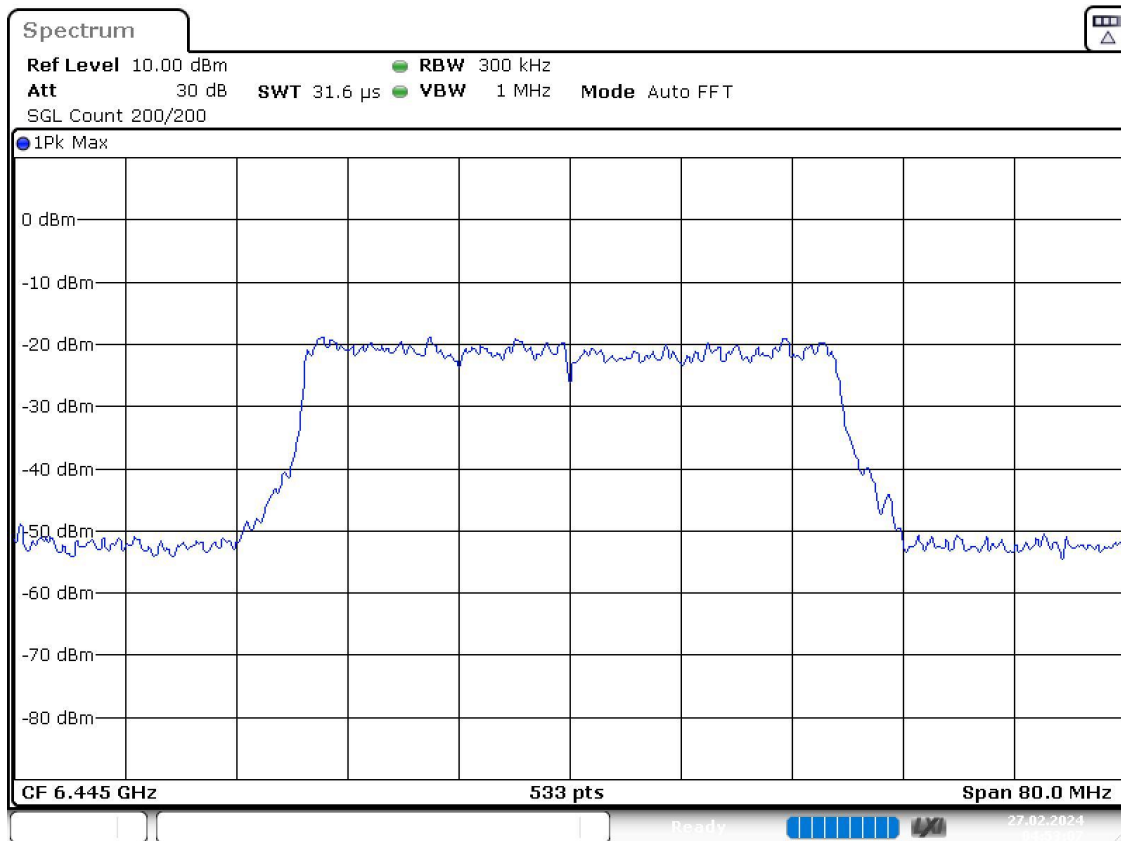
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6445.000000	44.878049	---	320.000000	6423.236398	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6445.000000	6468.114447	---	-3.3	PASS

26 dB Bandwidth



Bandwidth



Date: 27.FEB.2024 04:53:08

In-Band Emissions (6445 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
6445.000000	PASS

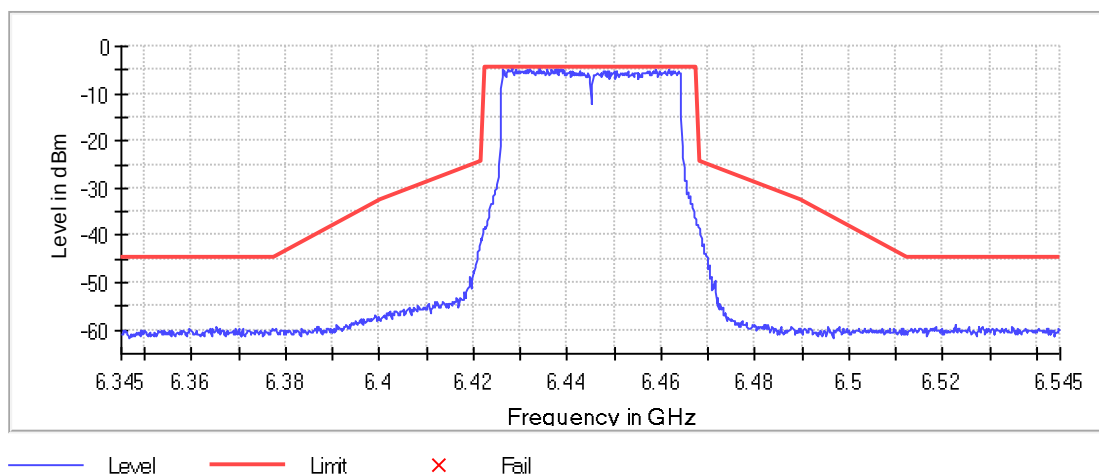
Inband Peak

Frequency (MHz)	Level (dBm)
6428.345836	-4.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6434.047262	-4.5	0.0	-4.5	PASS
6438.248312	-4.7	0.2	-4.5	PASS
6428.195799	-4.8	0.2	-4.5	PASS
6435.697674	-4.8	0.2	-4.5	PASS
6426.395349	-4.8	0.3	-4.5	PASS
6437.498125	-4.9	0.3	-4.5	PASS
6428.945986	-4.9	0.4	-4.5	PASS
6438.698425	-5.0	0.4	-4.5	PASS
6458.953488	-5.0	0.4	-4.5	PASS
6437.348087	-5.0	0.5	-4.5	PASS
6437.648162	-5.0	0.5	-4.5	PASS
6461.504126	-5.0	0.5	-4.5	PASS
6439.148537	-5.0	0.5	-4.5	PASS
6431.496624	-5.0	0.5	-4.5	PASS
6436.747937	-5.0	0.5	-4.5	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.34500 GHz	6.34500 GHz
Stop Frequency	6.54500 GHz	6.54500 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

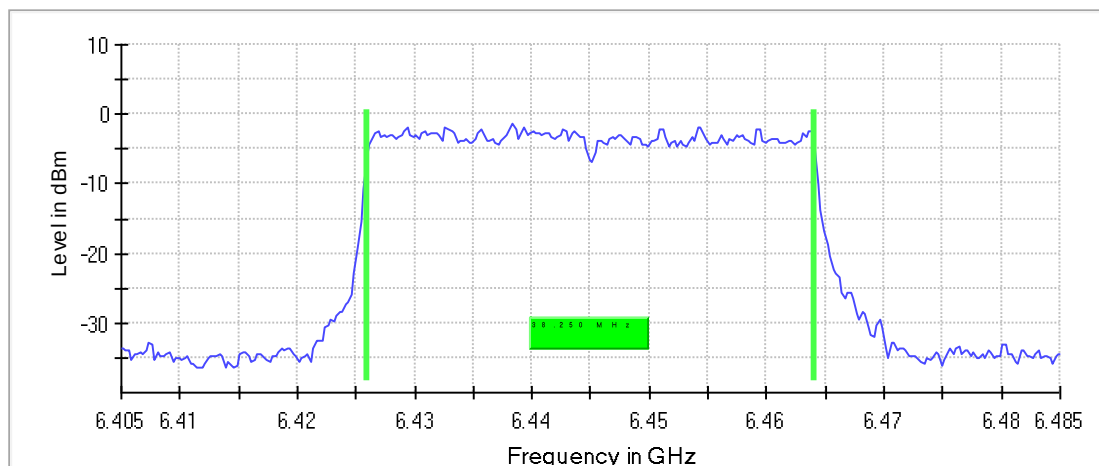
Occupied Channel Bandwidth 99% (6445 MHz; 24.000 dBm; 40 MHz)

99 % Bandwidth

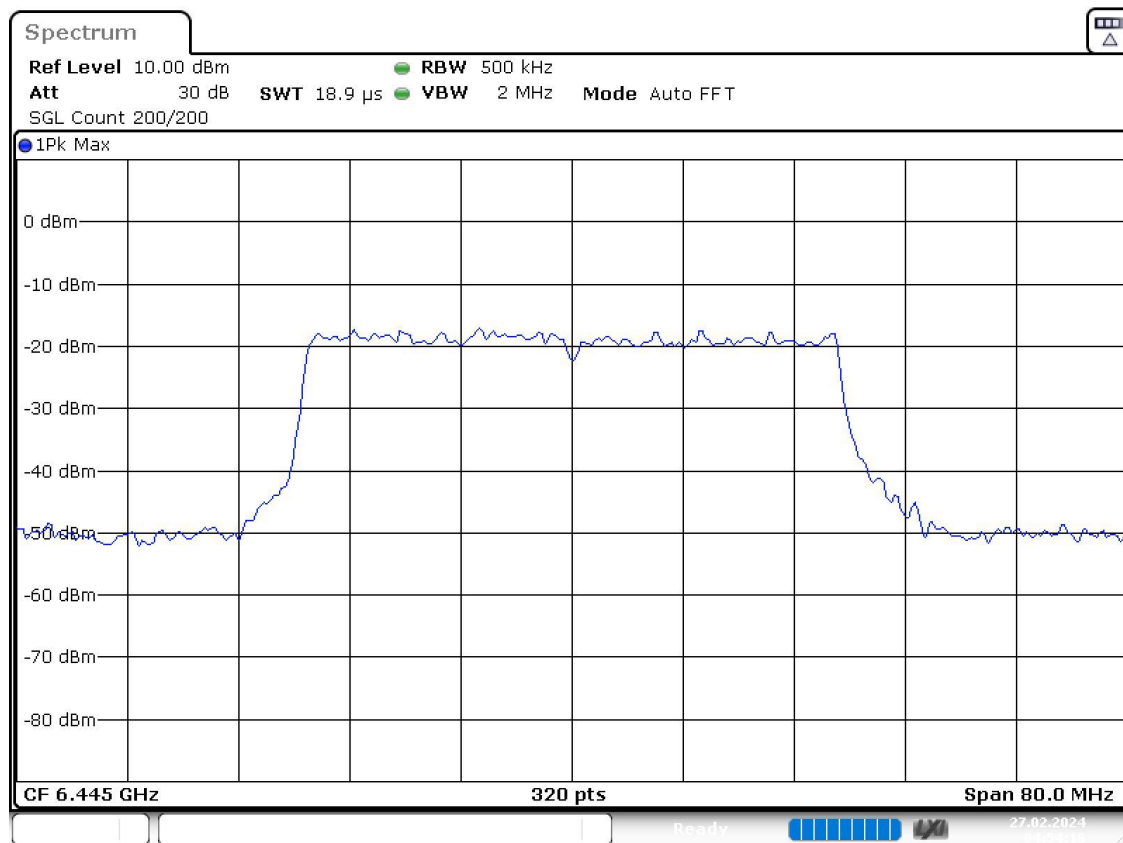
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6445.000000	38.250000	---	320.000000	6425.875000	5925.000000

(DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6445.000000	6464.125000	7125.000000	PASS

99 % Bandwidth



Bandwidth



Date: 27.FEB.2024 04:54:19

Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.40500 GHz	6.40500 GHz
Stop Frequency	6.48500 GHz	6.48500 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 μ s	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

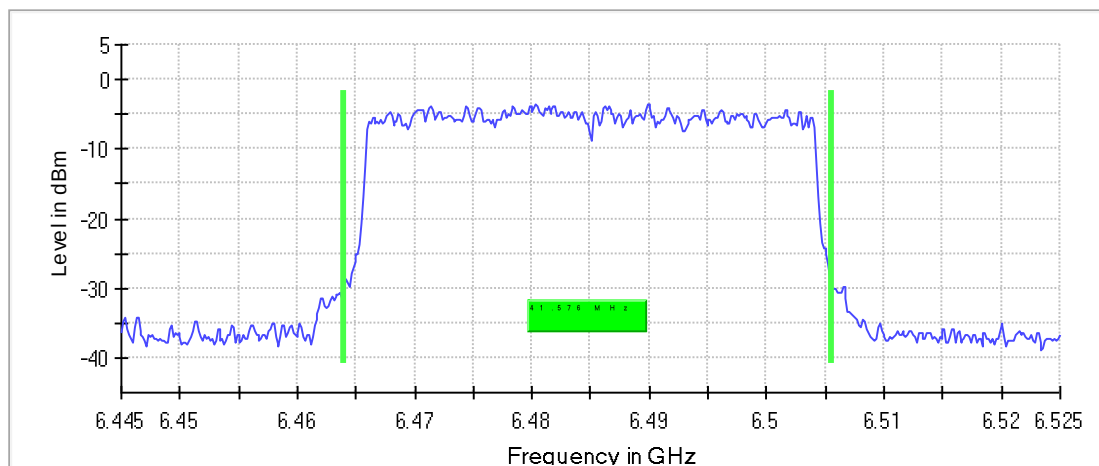
Emission Bandwidth 26 dB (6485 MHz; 24.000 dBm; 40 MHz)

26 dB Bandwidth

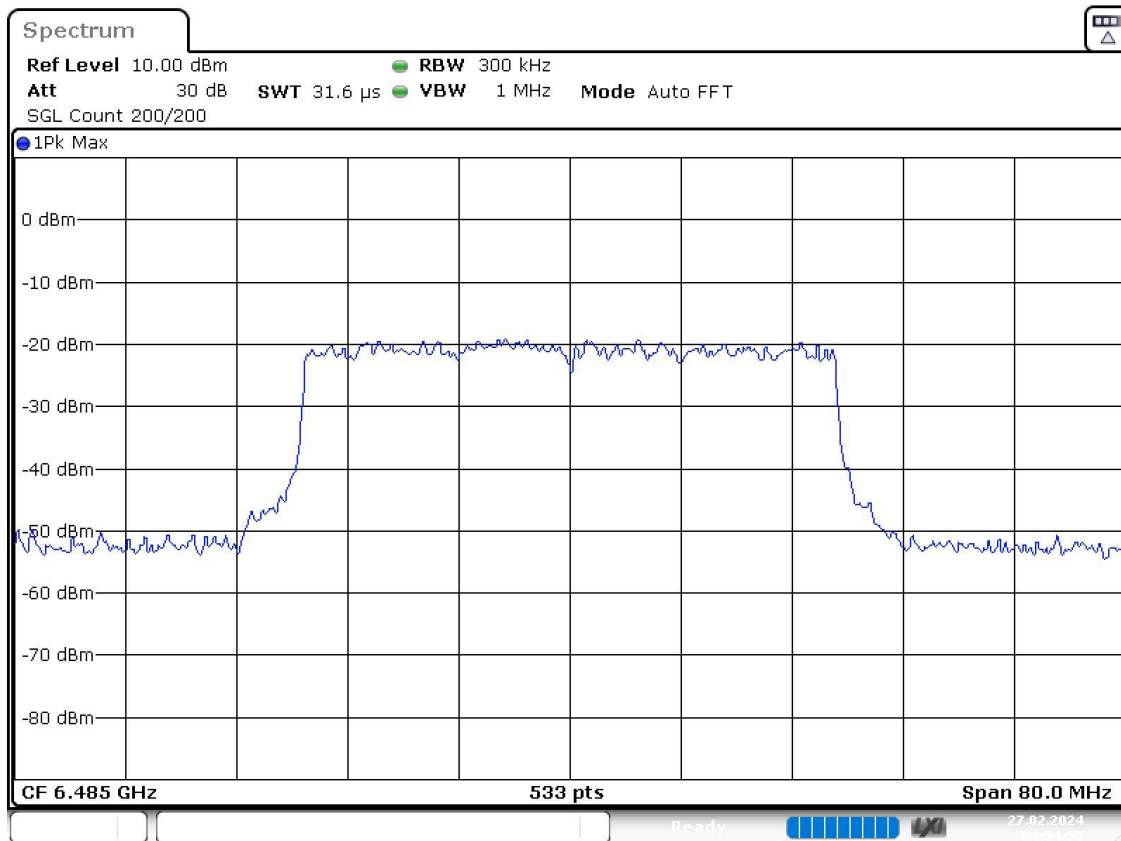
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6485.000000	41.575985	---	320.000000	6463.986867	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6485.000000	6505.562852	---	-3.6	PASS

26 dB Bandwidth



Bandwidth



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In-Band Emissions (6485 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
6485.000000	PASS

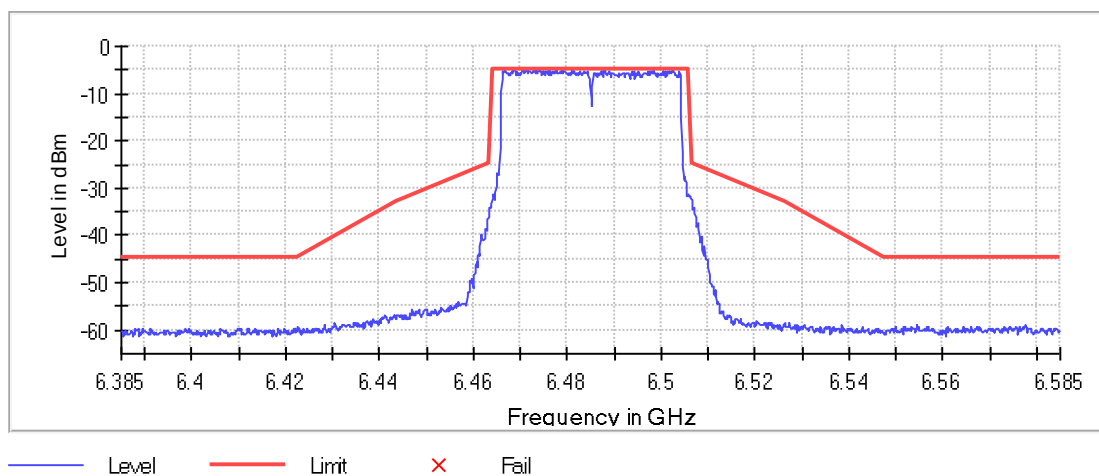
Inband Peak

Frequency (MHz)	Level (dBm)
6473.297074	-4.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6473.297074	-4.7	0.0	-4.7	PASS
6468.795949	-4.8	0.1	-4.7	PASS
6488.000750	-4.8	0.1	-4.7	PASS
6468.645911	-4.8	0.1	-4.7	PASS
6487.850713	-4.8	0.1	-4.7	PASS
6502.404351	-4.8	0.1	-4.7	PASS
6477.648162	-4.9	0.1	-4.7	PASS
6476.297824	-4.9	0.2	-4.7	PASS
6466.695424	-4.9	0.2	-4.7	PASS
6473.897224	-4.9	0.2	-4.7	PASS
6471.346587	-4.9	0.2	-4.7	PASS
6470.596399	-5.0	0.2	-4.7	PASS
6480.948987	-5.0	0.2	-4.7	PASS
6502.554389	-5.0	0.2	-4.7	PASS
6471.496624	-5.0	0.3	-4.7	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.34500 GHz	6.34500 GHz
Stop Frequency	6.54500 GHz	6.54500 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

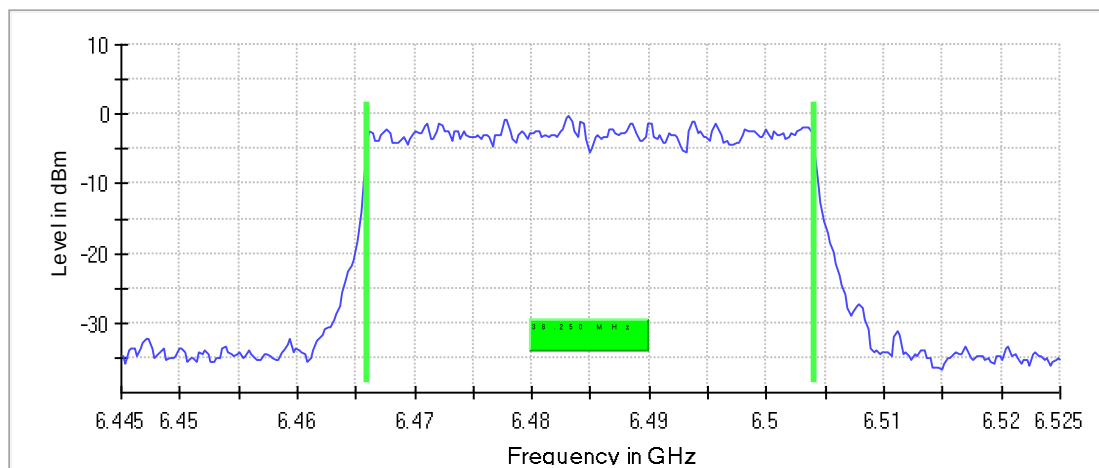
Occupied Channel Bandwidth 99% (6485 MHz; 24.000 dBm; 40 MHz)

99 % Bandwidth

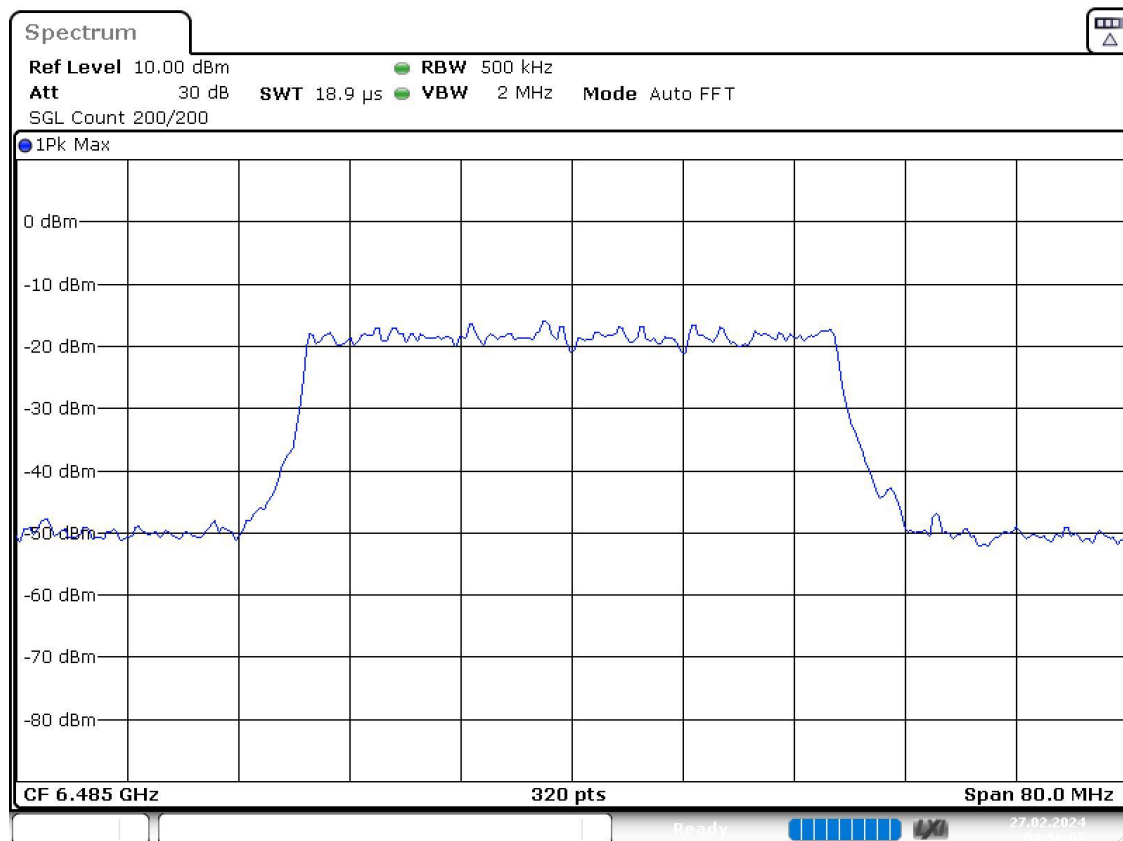
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6485.000000	38.250000	---	320.000000	6465.875000	5925.000000

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6485.000000	6504.125000	7125.000000	PASS

99 % Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.44500 GHz	6.44500 GHz
Stop Frequency	6.52500 GHz	6.52500 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 μ s	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

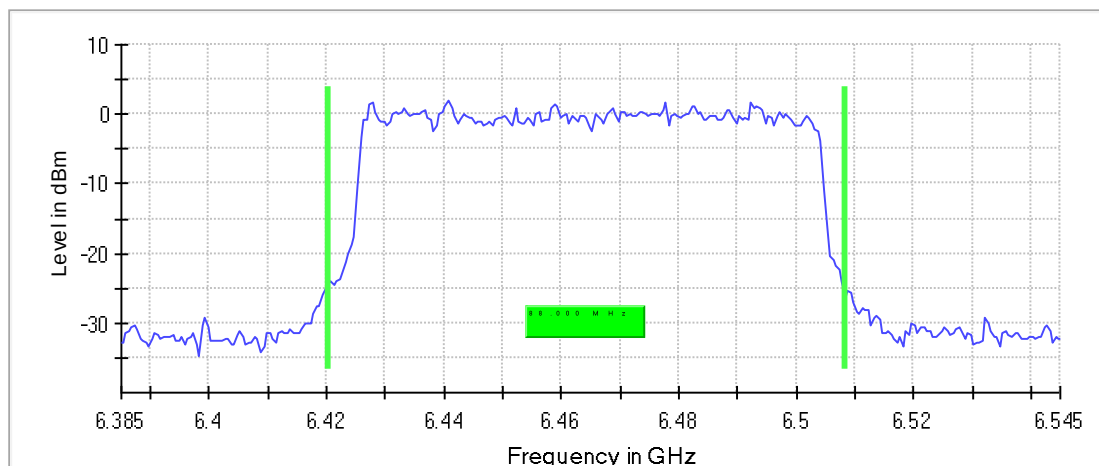
Emission Bandwidth 26 dB (6465 MHz; 24.000 dBm; 80 MHz)

26 dB Bandwidth

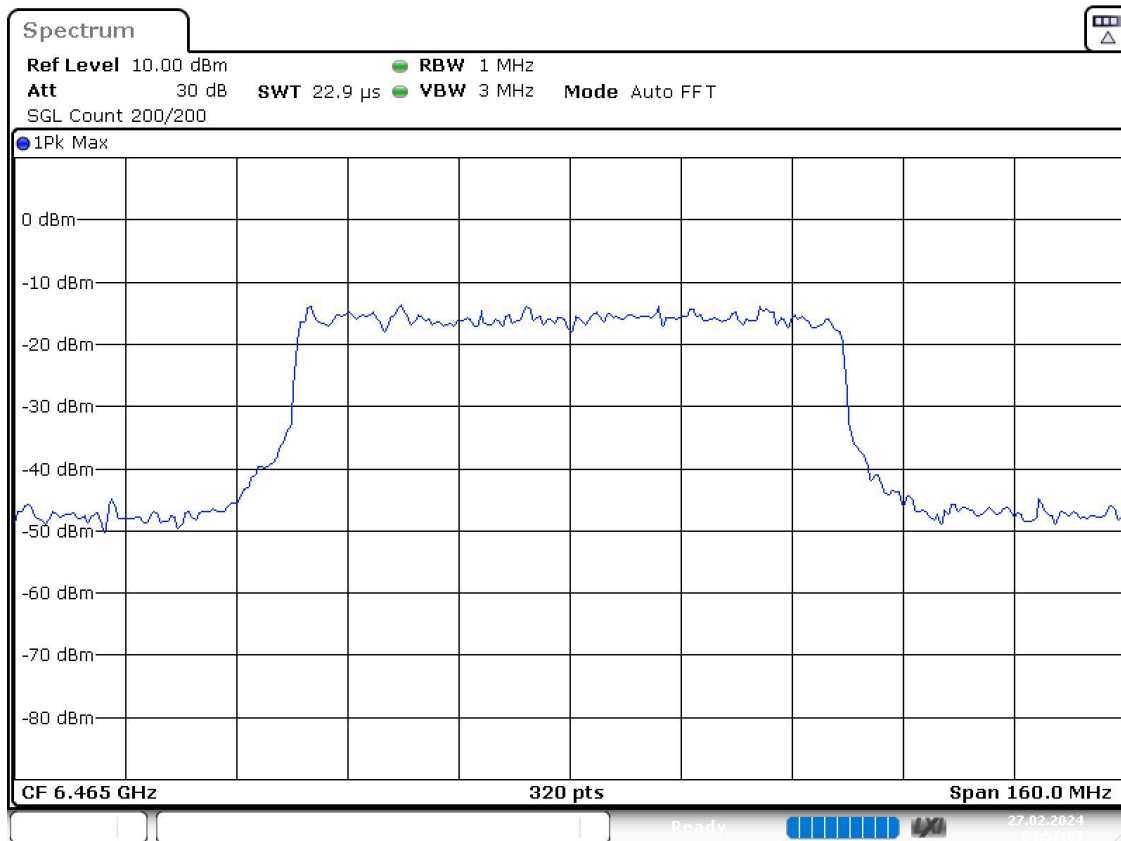
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L
6465.000000	88.000000	---	320.000000	6420.250000	---

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6465.000000	6508.250000	---	1.9	PASS

26 dB Bandwidth



Bandwidth



Date: 27.FEB.2024 04:57:06

In-Band Emissions (6465 MHz; 24.000 dBm; 80 MHz)

Result

DUT Frequency (MHz)	Result
6465.000000	PASS

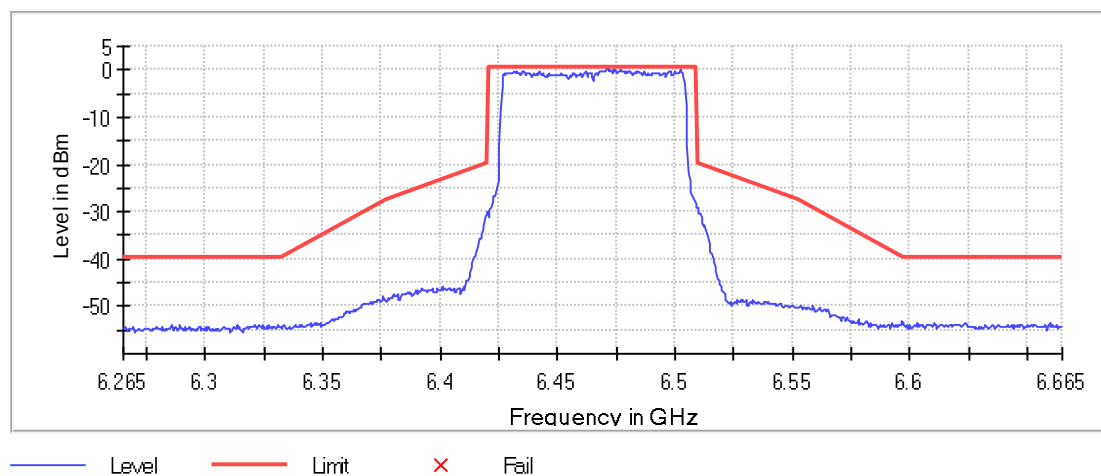
Inband Peak

Frequency (MHz)	Level (dBm)
6471.250000	0.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6476.750000	0.0	0.4	0.4	PASS
6473.750000	0.0	0.4	0.4	PASS
6502.250000	-0.1	0.5	0.4	PASS
6472.250000	-0.1	0.5	0.4	PASS
6474.750000	-0.1	0.5	0.4	PASS
6474.250000	-0.1	0.5	0.4	PASS
6483.250000	-0.1	0.5	0.4	PASS
6469.250000	-0.1	0.5	0.4	PASS
6470.250000	-0.1	0.6	0.4	PASS
6472.750000	-0.2	0.6	0.4	PASS
6476.250000	-0.2	0.6	0.4	PASS
6477.750000	-0.2	0.6	0.4	PASS
6470.750000	-0.2	0.6	0.4	PASS
6435.250000	-0.2	0.6	0.4	PASS
6468.250000	-0.2	0.6	0.4	PASS

In Band



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.26500 GHz	6.26500 GHz
Stop Frequency	6.66500 GHz	6.66500 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

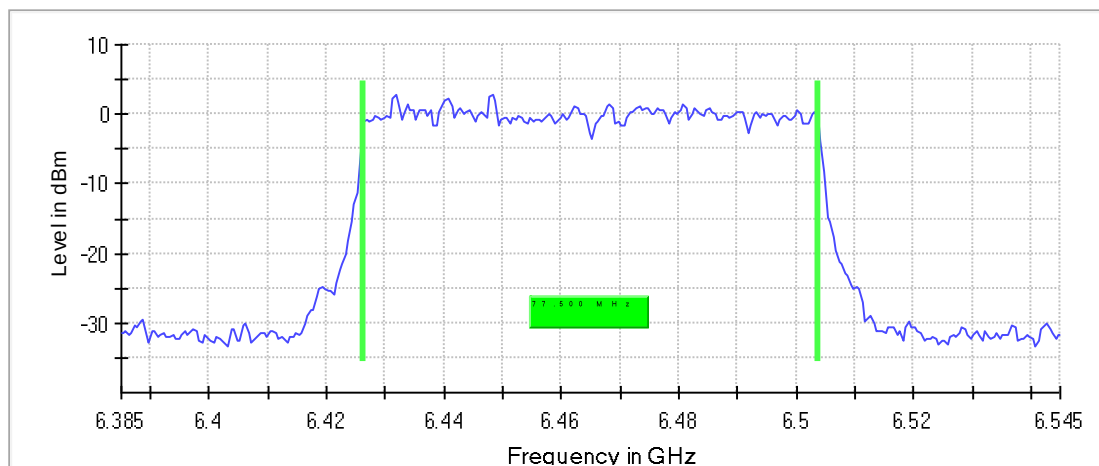
Occupied Channel Bandwidth 99% (6465 MHz; 24.000 dBm; 80 MHz)

99 % Bandwidth

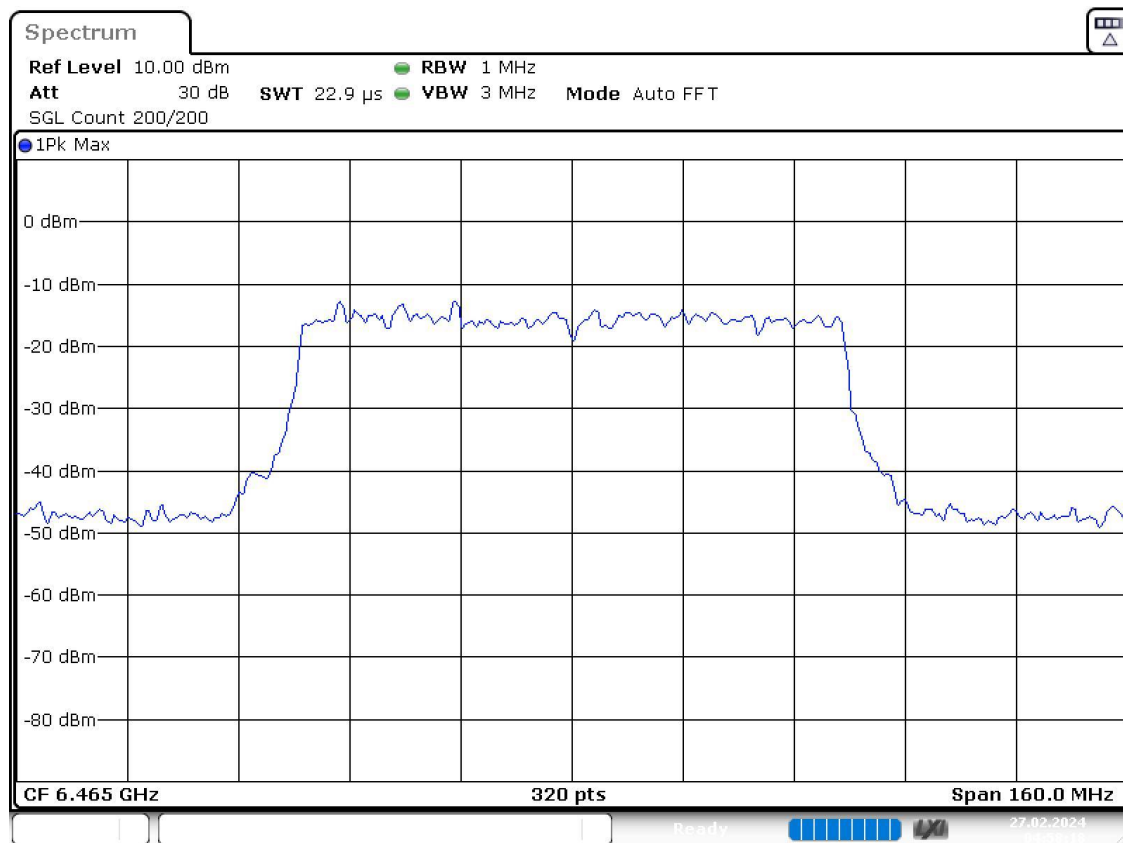
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)
6465.000000	77.500000	---	320.000000	6426.250000	5925.000000

DUT Frequency (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6465.000000	6503.750000	7125.000000	PASS

99 % Bandwidth



Bandwidth



Date: 27.FEB.2024 04:58:19

Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.38500 GHz	6.38500 GHz
Stop Frequency	6.54500 GHz	6.54500 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 μ s	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

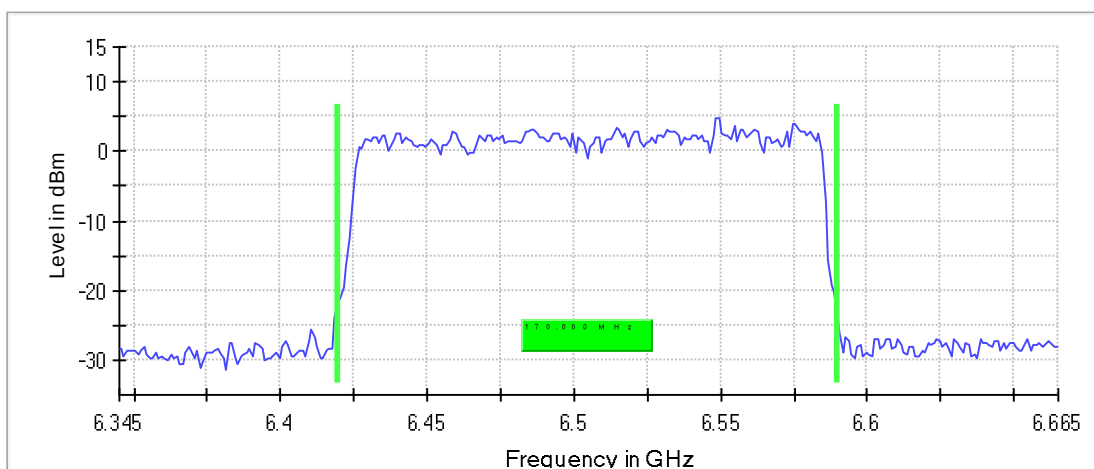
Emission Bandwidth 26 dB (6505 MHz; 24.000 dBm; 160 MHz)

26 dB Bandwidth

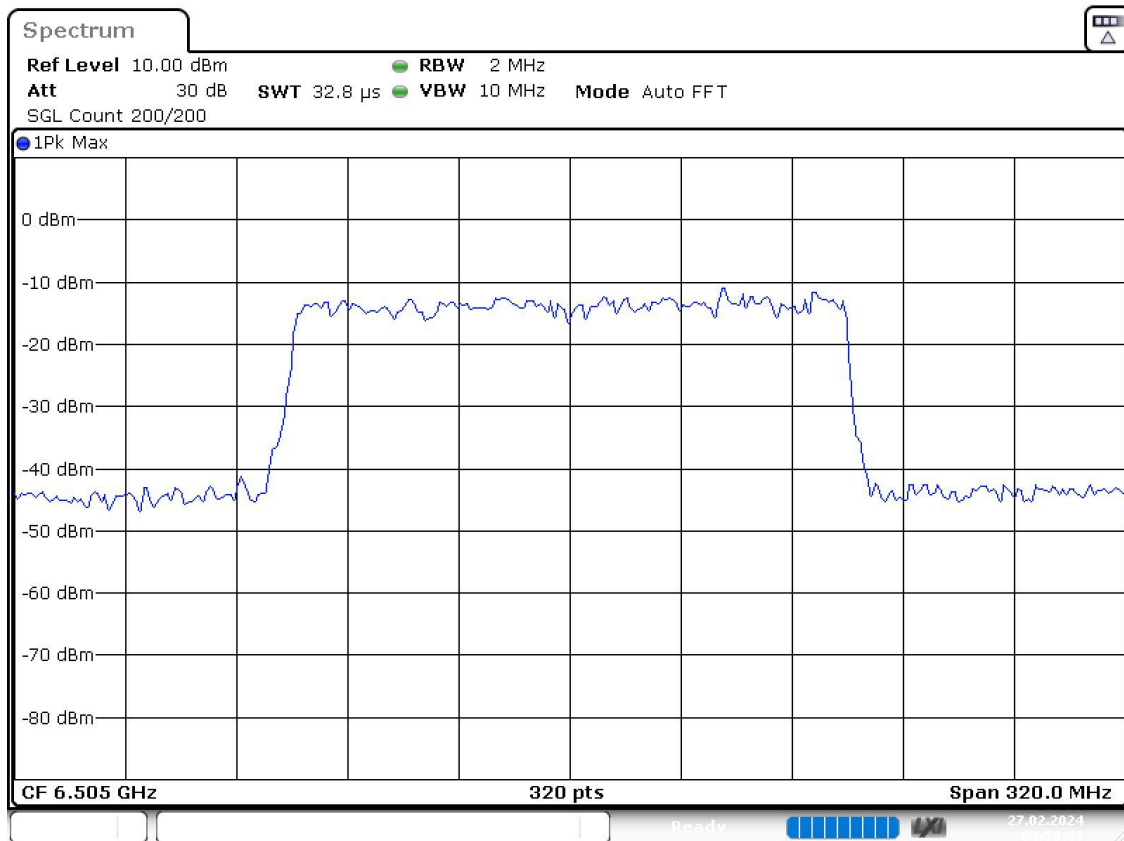
DUT Frequency (MHz)	Bandwidth (MHz)	Bandwidth U-NII 6 (MHz)	Bandwidth U-NII 7 (MHz)	Limit Min (MHz)	Limit Max (MHz)
6505.000000	170.000000	105.500000	64.500000	---	320.000000

DUT Frequency (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Max Level (dBm)	Result
6505.000000	6419.500000	---	6589.500000	---	4.7	PASS

26 dB Bandwidth



Bandwidth



Date: 27.FEB.2024 04:59:36

In-Band Emissions (6505 MHz; 24.000 dBm; 160 MHz)

Result

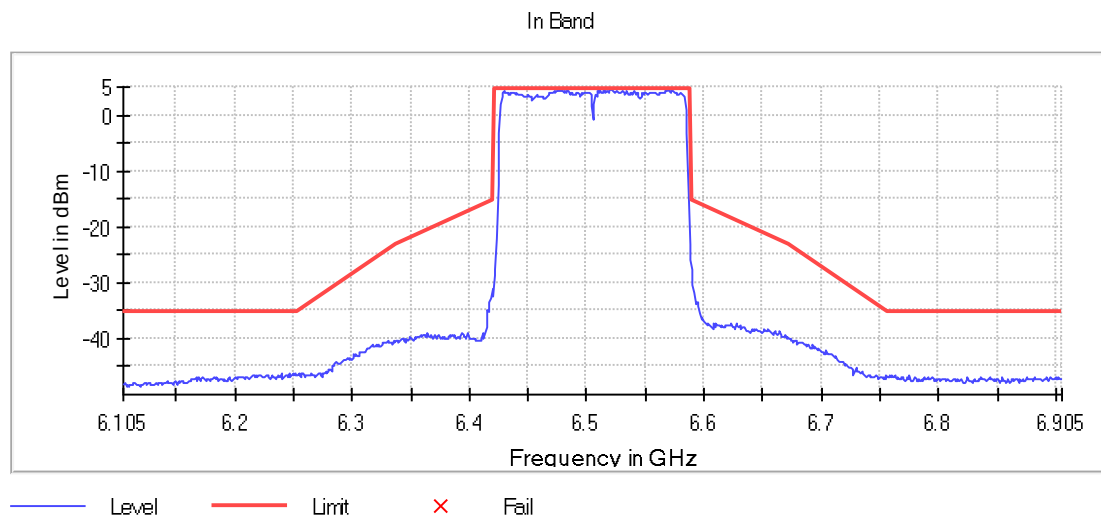
DUT Frequency (MHz)	Result
6505.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
6520.500000	4.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
6569.500000	4.8	0.0	4.8	PASS
6511.500000	4.5	0.2	4.8	PASS
6517.500000	4.5	0.3	4.8	PASS
6477.500000	4.5	0.3	4.8	PASS
6521.500000	4.4	0.3	4.8	PASS
6474.500000	4.4	0.4	4.8	PASS
6429.500000	4.4	0.4	4.8	PASS
6568.500000	4.4	0.4	4.8	PASS
6476.500000	4.4	0.4	4.8	PASS
6481.500000	4.3	0.4	4.8	PASS
6509.500000	4.3	0.4	4.8	PASS
6534.500000	4.3	0.4	4.8	PASS
6522.500000	4.3	0.4	4.8	PASS
6475.500000	4.3	0.4	4.8	PASS
6572.500000	4.3	0.4	4.8	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	6.10500 GHz	6.10500 GHz
Stop Frequency	6.90500 GHz	6.90500 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

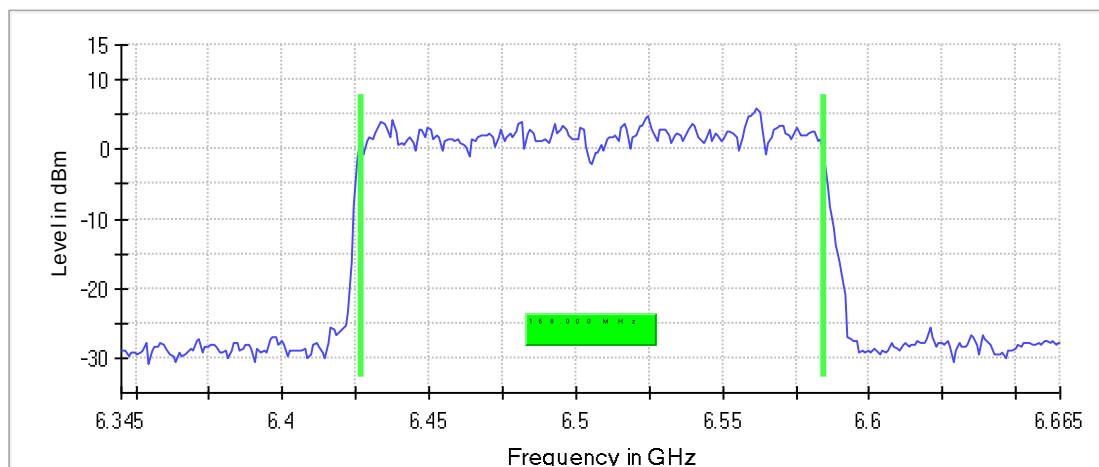
Occupied Channel Bandwidth 99% (6505 MHz; 24.000 dBm; 160 MHz)

99 % Bandwidth

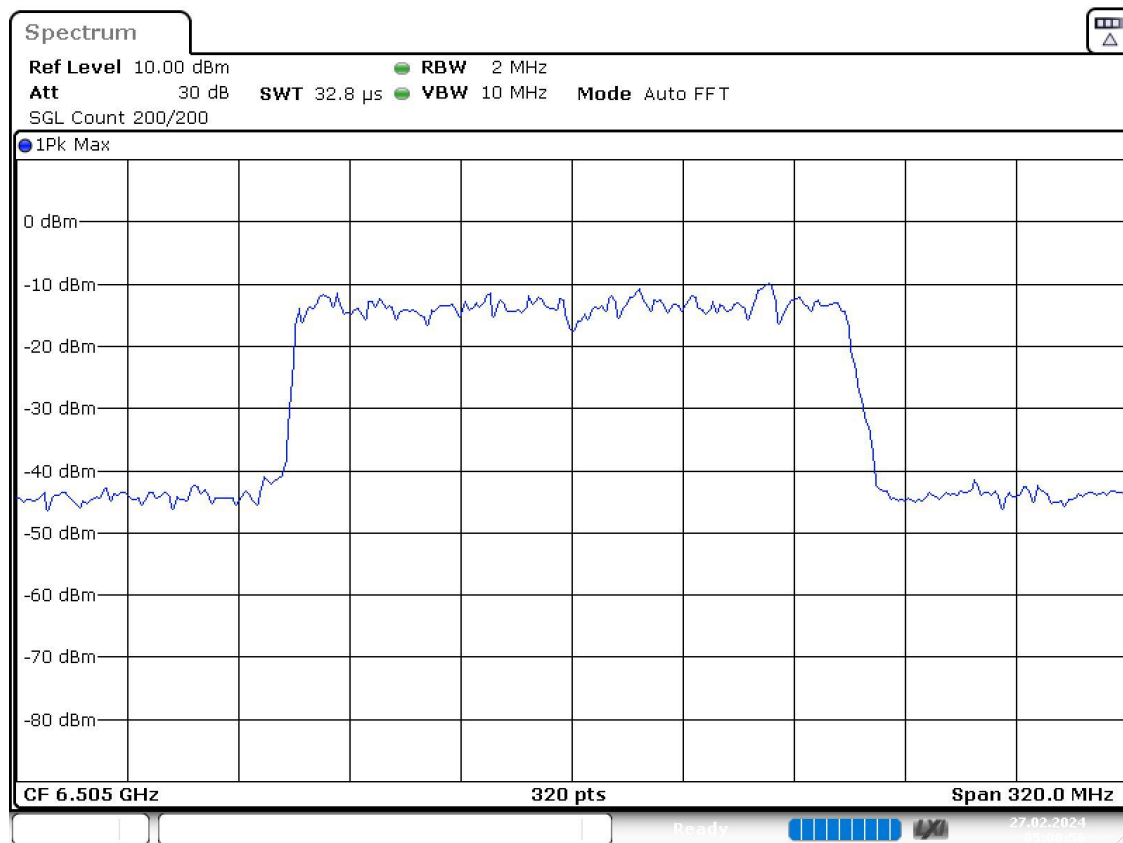
DUT Frequency (MHz)	Bandwidth (MHz)	Bandwidth U-NII 6 (MHz)	Bandwidth U-NII 7 (MHz)	Limit Min (MHz)	Limit Max (MHz)
6505.000000	158.000000	98.500000	59.500000	---	320.000000

DUT Frequency (MHz)	Band Edge Left (MHz)	Limit Min BE L (MHz)	Band Edge Right (MHz)	Limit Max BE R (MHz)	Result
6505.000000	6426.500000	5925.000000	6584.500000	7125.000000	PASS

99 % Bandwidth



Bandwidth



Date: 27.FEB.2024 05:00:57

Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.34500 GHz	6.34500 GHz
Stop Frequency	6.66500 GHz	6.66500 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 μ s	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

Tx Spurious Emission (6505 MHz; 24.000 dBm; 160 MHz)

Result

DUT Frequency (MHz)	Result
6505.000000	PASS

Final measurements

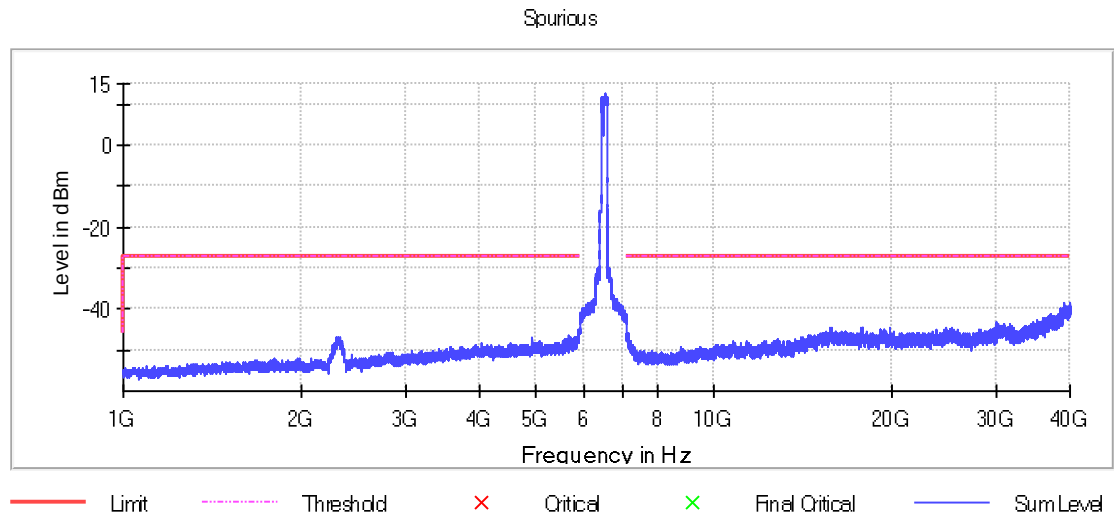
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-55.4	9.5	-45.9
39991.750000	-38.4	11.4	-27.0
39991.250000	-38.4	11.4	-27.0
39143.250000	-38.5	11.5	-27.0
39952.250000	-38.6	11.6	-27.0
39979.250000	-38.6	11.6	-27.0
39985.250000	-38.7	11.7	-27.0
39968.750000	-38.8	11.8	-27.0
39977.250000	-38.9	11.9	-27.0
39950.250000	-38.9	11.9	-27.0
39957.750000	-39.0	12.0	-27.0
39962.250000	-39.0	12.0	-27.0
39085.750000	-39.1	12.1	-27.0
39946.750000	-39.1	12.1	-27.0
39985.750000	-39.1	12.1	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
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



Emissions in restricted frequency bands (Average) (6505 MHz; 24.000 dBm; 160 MHz)

Result

DUT Frequency (MHz)	Result
6505.000000	PASS

Final measurements

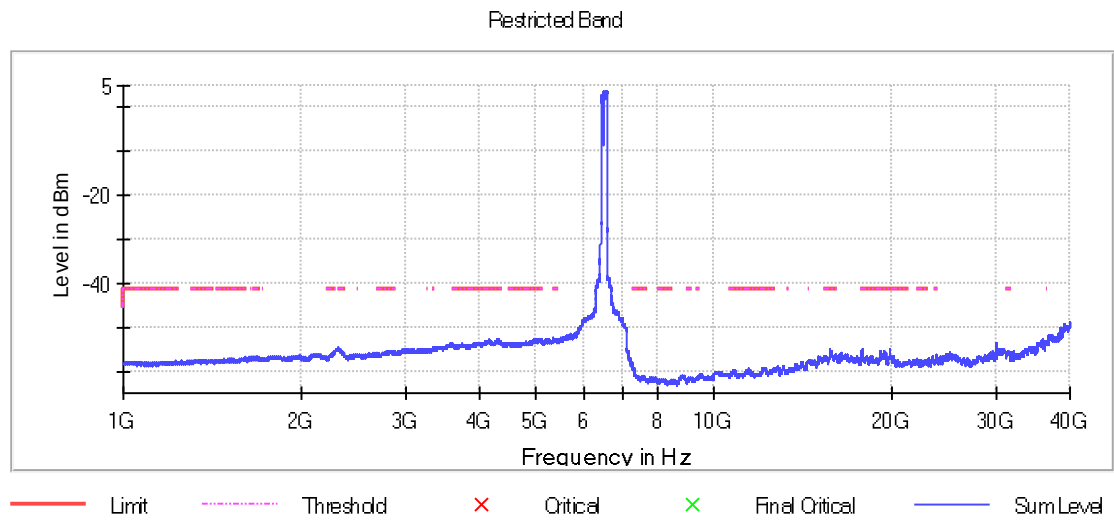
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-52.6	11.4	-41.2
5059.250000	-52.6	11.4	-41.2
5068.750000	-52.6	11.4	-41.2
5378.250000	-52.6	11.4	-41.2
5031.250000	-52.6	11.4	-41.2
5056.750000	-52.6	11.4	-41.2
5388.750000	-52.6	11.4	-41.2
5060.250000	-52.6	11.4	-41.2
5076.750000	-52.6	11.4	-41.2
5357.750000	-52.6	11.4	-41.2
5074.250000	-52.6	11.4	-41.2
5052.250000	-52.7	11.5	-41.2
5080.250000	-52.7	11.5	-41.2
5373.750000	-52.7	11.5	-41.2
4975.250000	-52.7	11.5	-41.2

Measurement Settings

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



Emissions in restricted frequency bands (Peak) (6505 MHz; 24.000 dBm; 160 MHz)

Result

DUT Frequency (MHz)	Result
6505.000000	PASS

Final measurements

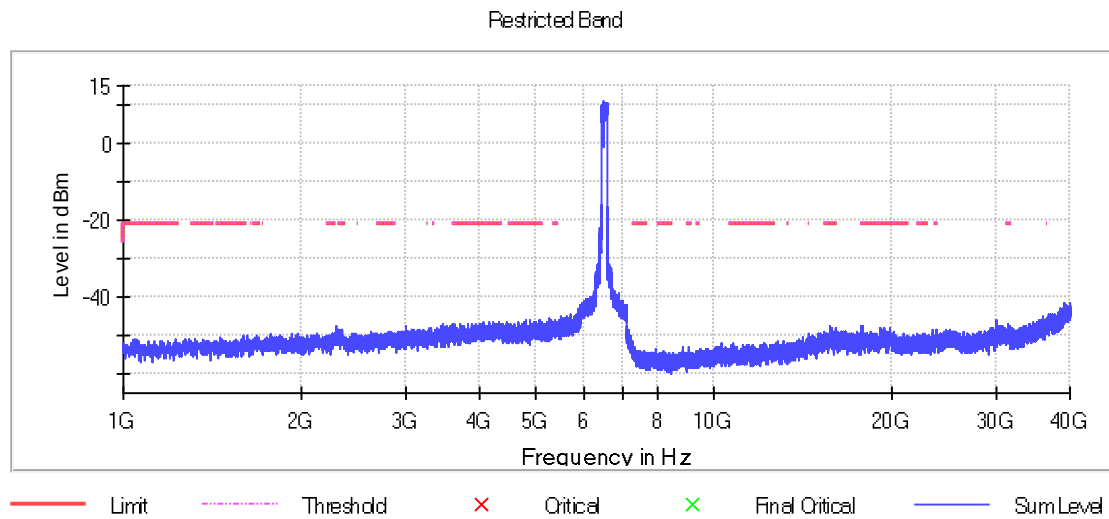
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5073.750000	-45.9	24.7	-21.2
5452.750000	-46.0	24.8	-21.2
4886.750000	-46.1	24.9	-21.2
5065.750000	-46.1	24.9	-21.2
5377.250000	-46.2	25.0	-21.2
36496.265742	-46.2	25.0	-21.2
5050.250000	-46.2	25.0	-21.2
4794.750000	-46.2	25.0	-21.2
5352.250000	-46.3	25.1	-21.2
5001.250000	-46.3	25.1	-21.2
36443.329896	-46.3	25.1	-21.2
5052.250000	-46.3	25.1	-21.2
36453.642074	-46.4	25.2	-21.2
4991.750000	-46.4	25.2	-21.2
5097.750000	-46.4	25.2	-21.2

Measurement Settings

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



1.2 PSD Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Power Spectral Density (SA-2)	6435.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	6475.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	6515.000	24.0	20.000000	PASS
Power Spectral Density (SA-2)	6445.000	24.0	40.000000	PASS
Power Spectral Density (SA-2)	6485.000	24.0	40.000000	PASS
Power Spectral Density (SA-2)	6465.000	24.0	80.000000	PASS
Power Spectral Density (SA-2)	6505.000	24.0	160.000000	PASS

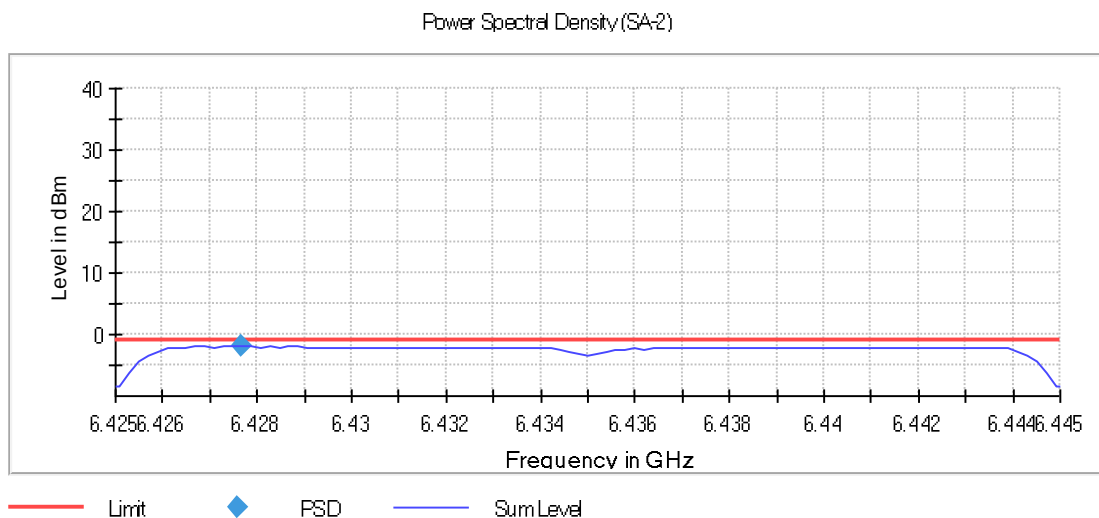
Power Spectral Density (SA-2) (6435 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6435.000000	6427.673267	-1.958	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	6.42500 GHz	6.42500 GHz
Stop Frequency	6.44500 GHz	6.44500 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	10.000 dBm	10.000 dBm
Attenuation	30.000 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

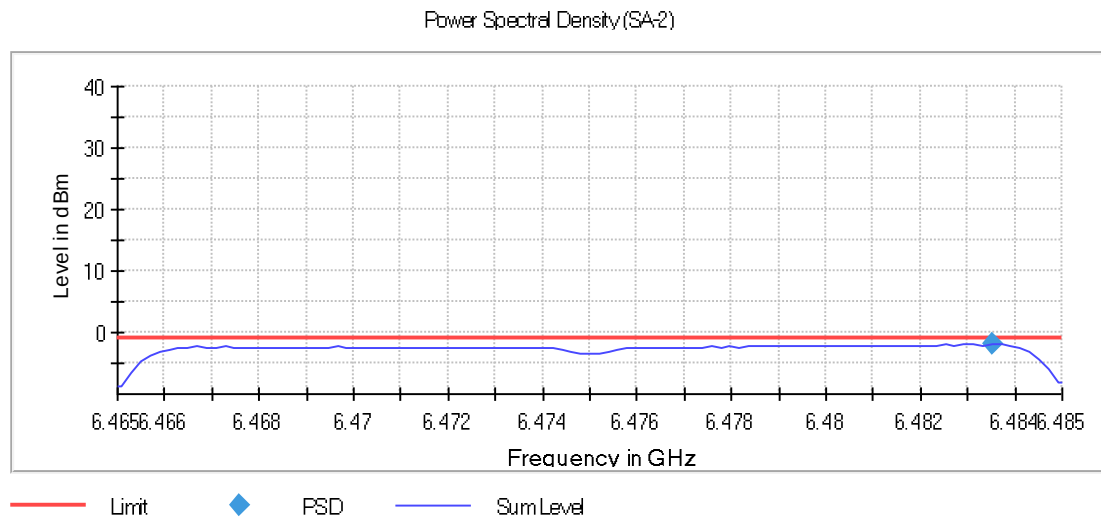
Power Spectral Density (SA-2) (6475 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6475.000000	6483.514851	-1.960	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



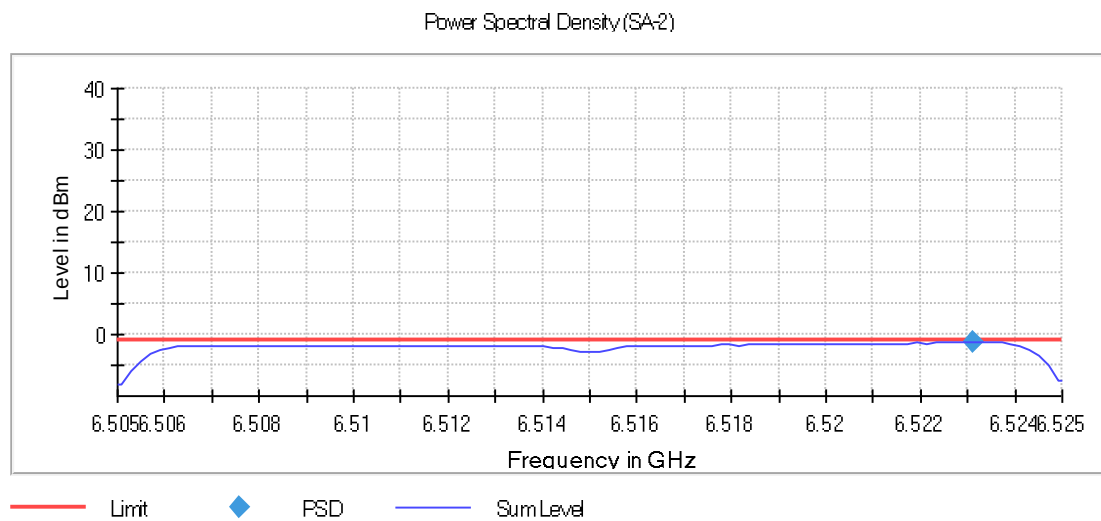
Power Spectral Density (SA-2) (6515 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6515.000000	6523.118812	-1.188	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



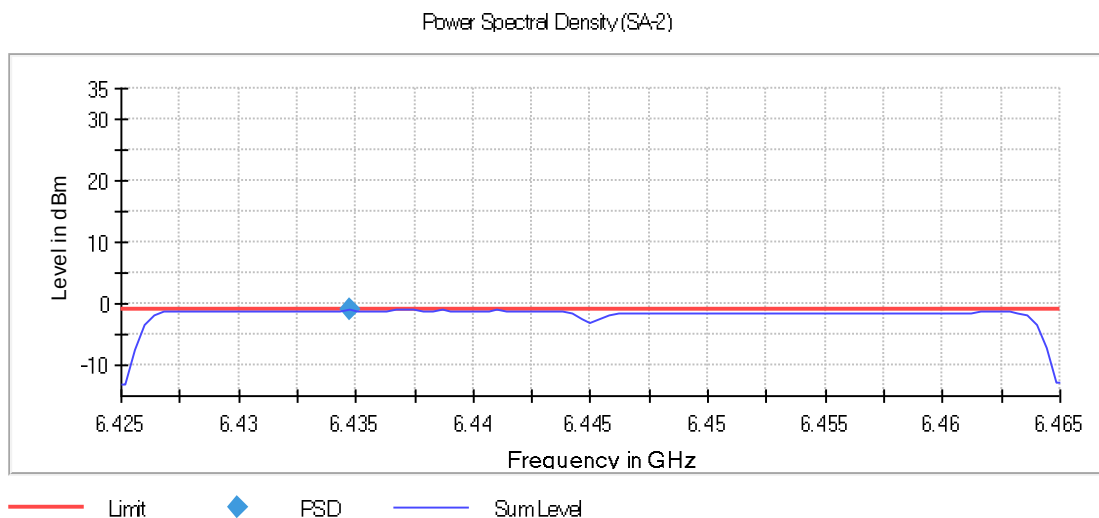
Power Spectral Density (SA-2) (6445 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6445.000000	6434.702970	-1.031	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



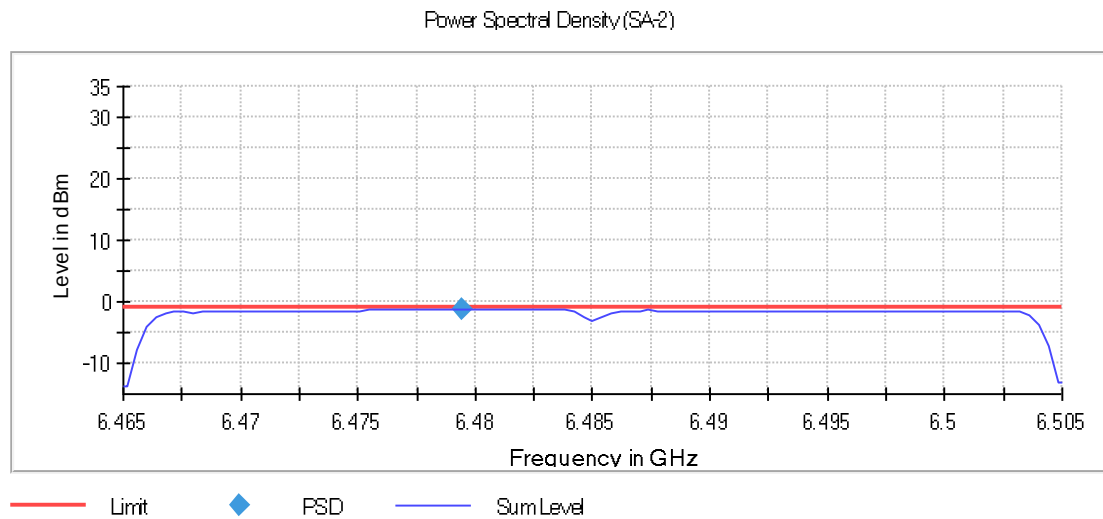
Power Spectral Density (SA-2) (6485 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6485.000000	6479.455446	-1.206	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



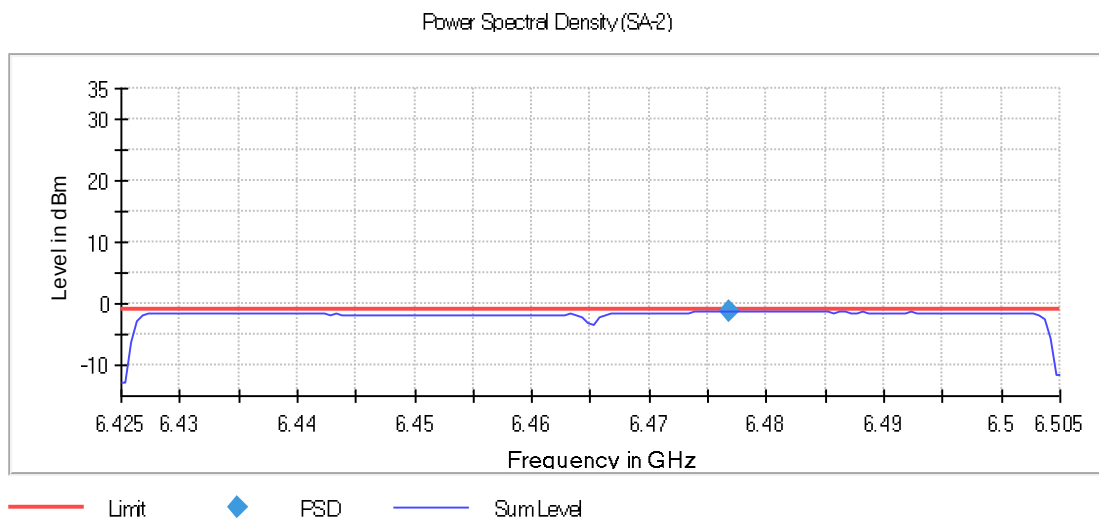
Power Spectral Density (SA-2) (6465 MHz; 24.000 dBm; 80 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6465.000000	6476.750000	-1.123	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



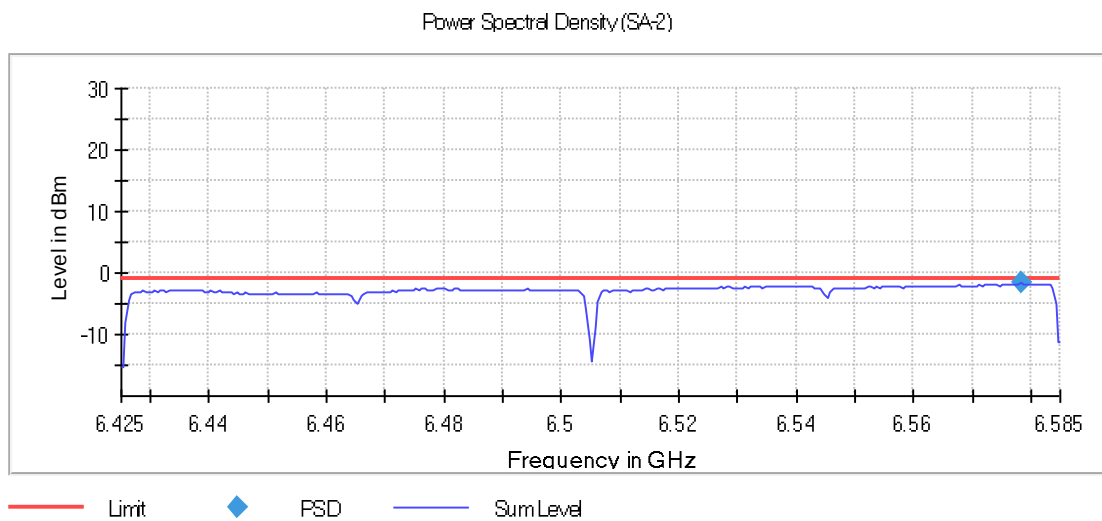
Power Spectral Density (SA-2) (6505 MHz; 24.000 dBm; 160 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
6505.000000	6578.250000	-1.691	-0.8	PASS

Ports

Port	State
1	used
2	used
3	used
4	used



-- End of Report --