

TESTED SAMPLES:

S/01

TESTED CONDITIONS MODES:

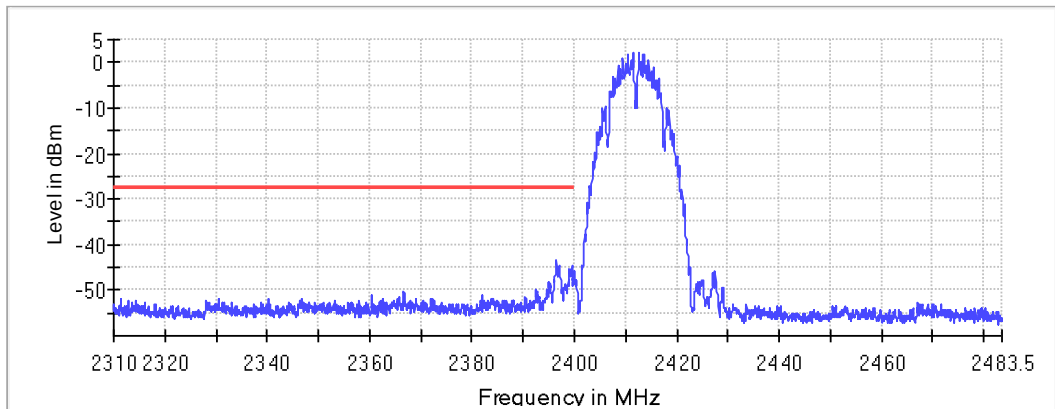
TC#01 (b mode)

TEST RESULTS:

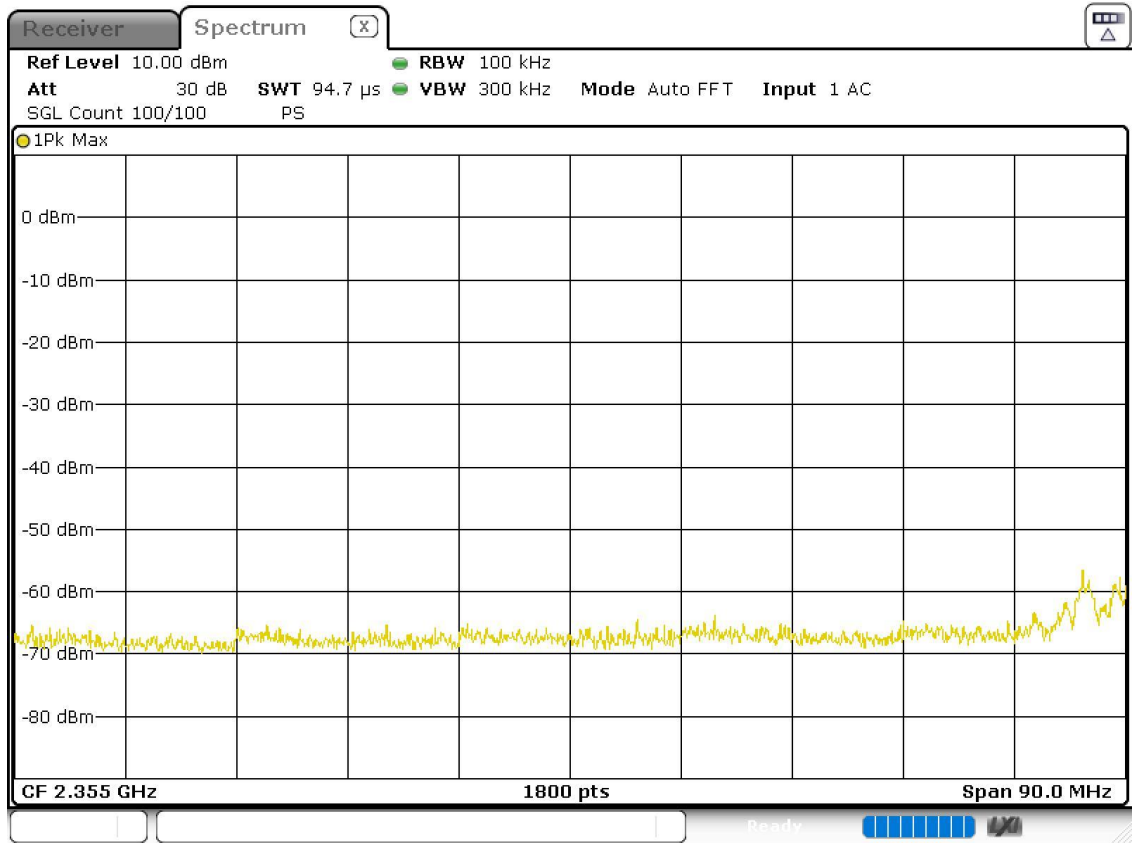
PASS

Lowest Channel

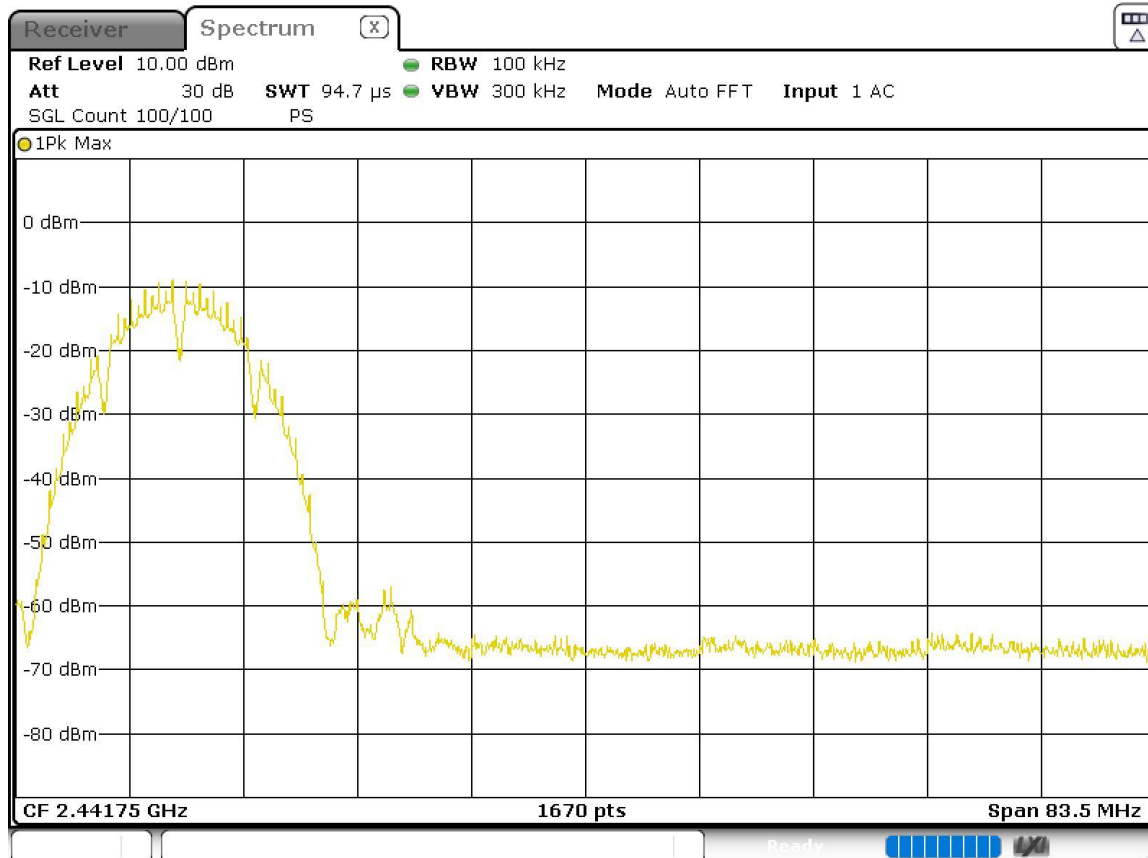
Band Edge



— Limit — Sum Level × Fail



TEST RESULTS (Cont.):



Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2396.475000	-43.3	15.6	-27.7	PASS
2396.525000	-43.3	15.6	-27.7	PASS
2399.525000	-44.5	16.8	-27.7	PASS
2399.475000	-44.5	16.8	-27.7	PASS
2396.975000	-44.7	17.0	-27.7	PASS
2397.025000	-44.8	17.1	-27.7	PASS
2399.125000	-45.5	17.8	-27.7	PASS
2399.025000	-45.5	17.8	-27.7	PASS
2396.925000	-45.5	17.8	-27.7	PASS
2399.175000	-45.6	17.9	-27.7	PASS
2396.575000	-45.6	17.9	-27.7	PASS
2399.975000	-45.6	17.9	-27.7	PASS
2398.975000	-45.7	18.0	-27.7	PASS
2396.875000	-45.8	18.1	-27.7	PASS
2399.225000	-45.9	18.2	-27.7	PASS

Spectrum Analyzer Parameters

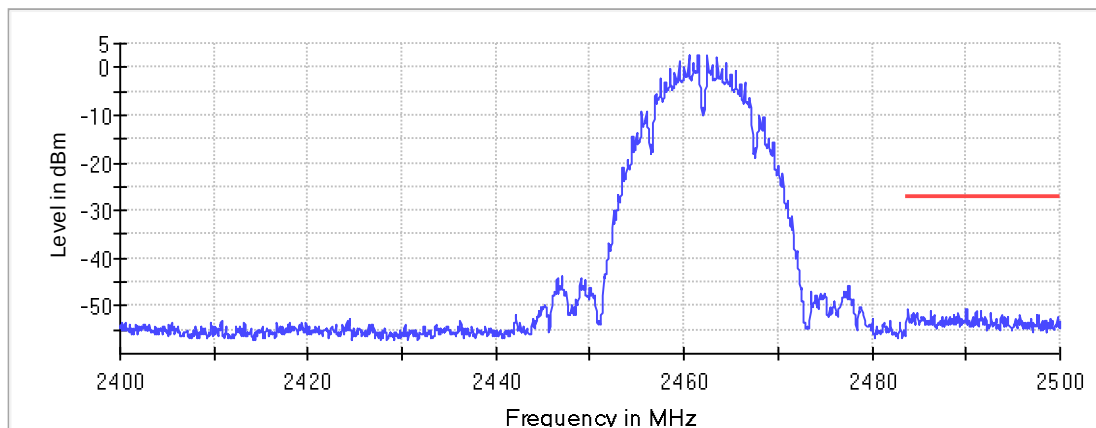
Setting	Instrument Value	Instrument Value
Start Frequency	2.31000	2.40000 GHz
Stop Frequency	2.40000	2.48350 GHz
Span	90.000 MHz	83.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1800	1670
Sweep time	94.727 μ s	94.727 μ s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	5 / max. 150	6 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.00 dB	0.12 dB

TEST RESULTS (Cont.):

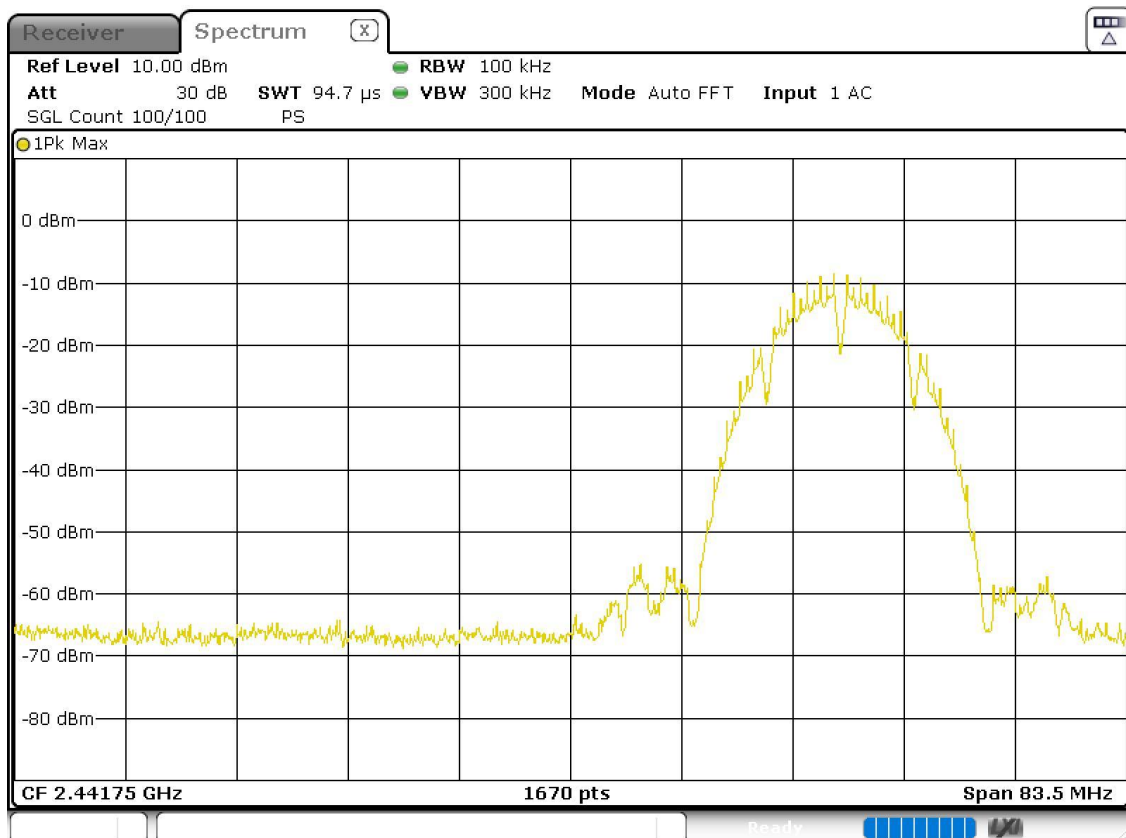
Highest Channel

Highest Channel

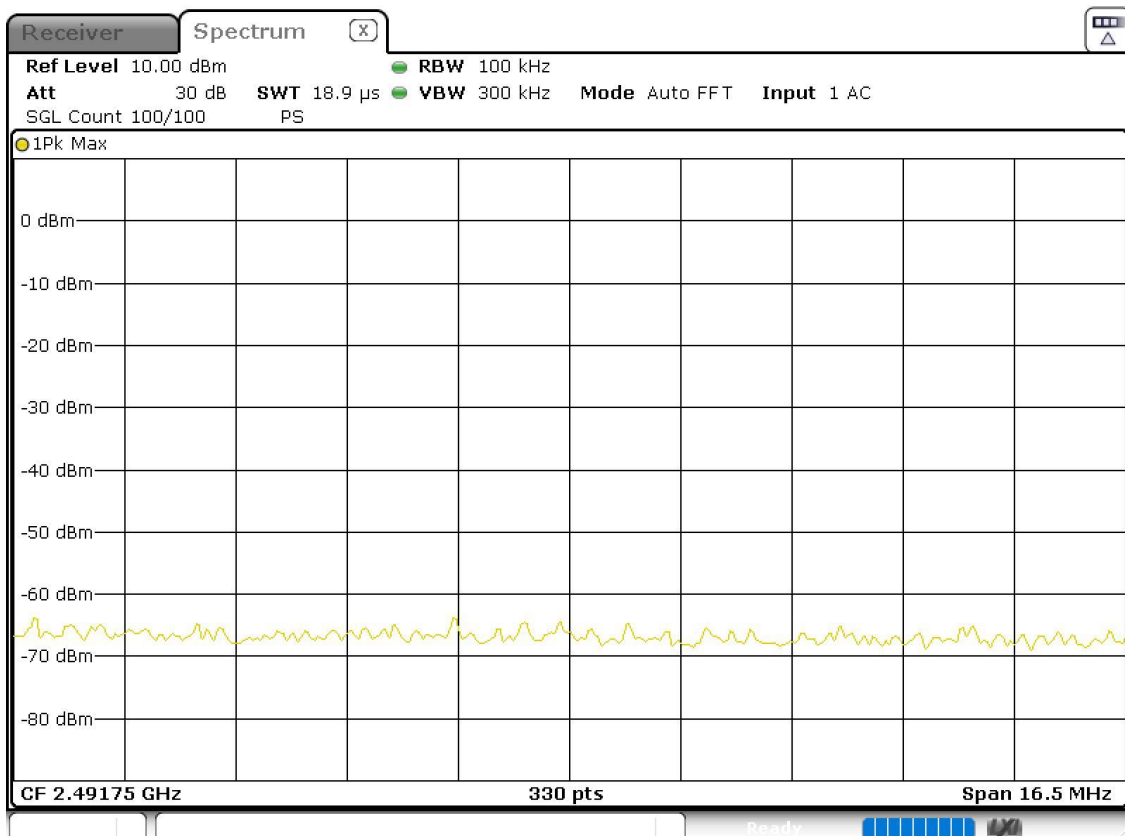
Band Edge



— Limit — Sum Level × Fail



TEST RESULTS (Cont.):



Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2490.025000	-50.5	23.2	-27.2	PASS
2483.825000	-50.5	23.3	-27.2	PASS
2490.075000	-50.6	23.3	-27.2	PASS
2483.875000	-50.8	23.5	-27.2	PASS
2491.625000	-51.2	24.0	-27.2	PASS
2491.075000	-51.2	24.0	-27.2	PASS
2486.225000	-51.2	24.0	-27.2	PASS
2491.575000	-51.3	24.0	-27.2	PASS
2492.625000	-51.3	24.1	-27.2	PASS
2491.125000	-51.3	24.1	-27.2	PASS
2486.275000	-51.4	24.2	-27.2	PASS
2491.025000	-51.5	24.2	-27.2	PASS
2484.375000	-51.6	24.3	-27.2	PASS
2484.825000	-51.6	24.3	-27.2	PASS
2492.575000	-51.6	24.4	-27.2	PASS

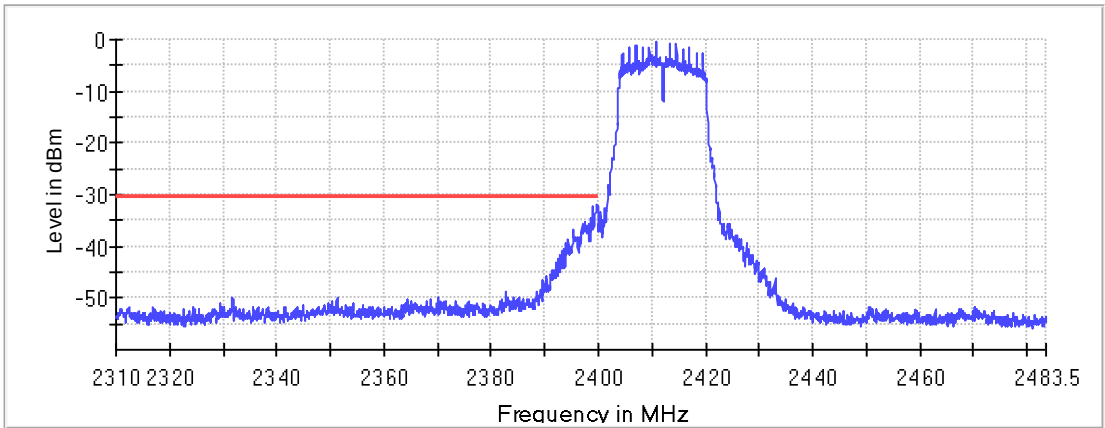
Spectrum Analyzer Parameters

Setting	Instrument Value	Instrument Value
Start Frequency	2.40000 GHz	2.48350 GHz
Stop Frequency	2.48350 GHz	2.50000 GHz
Span	83.500 MHz	16.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1670	330
Sweep time	94.727 μ s	18.945 μ s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamplifier	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	5 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.20 dB	0.00 dB

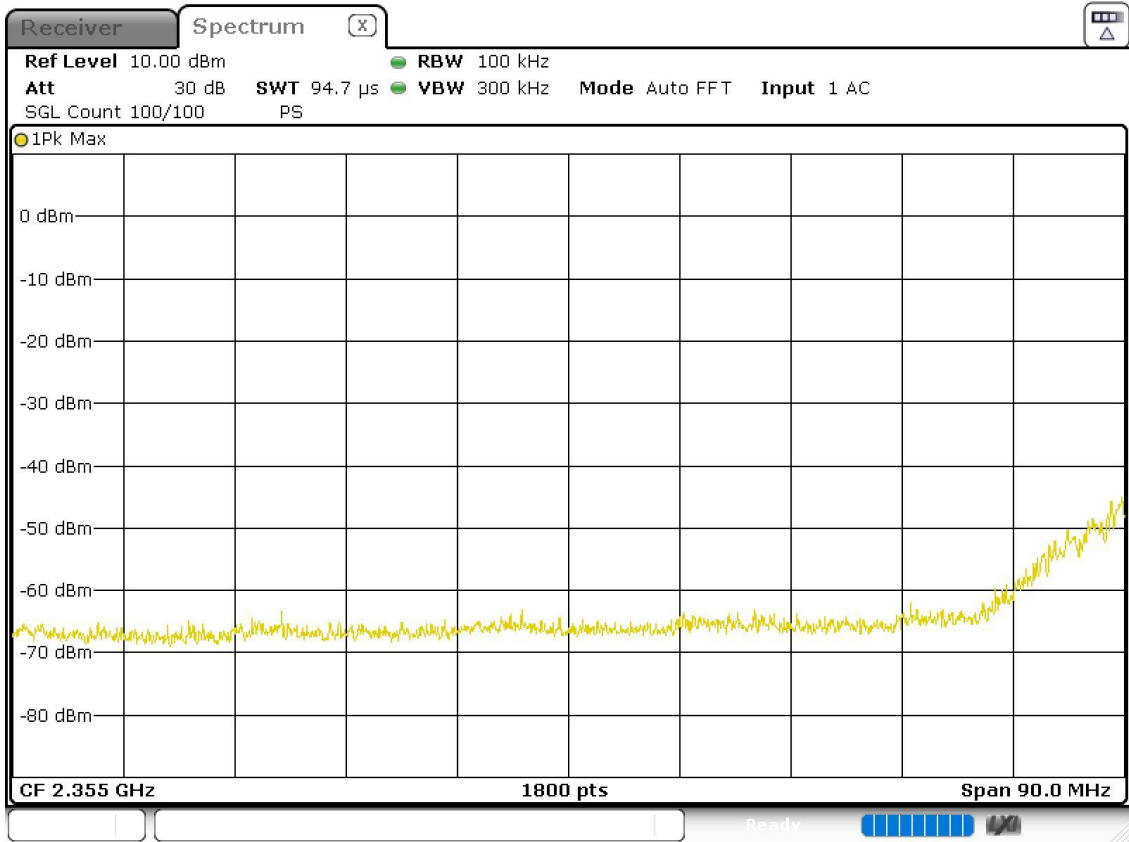
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode)
TEST RESULTS:	PASS

Lowest Channel

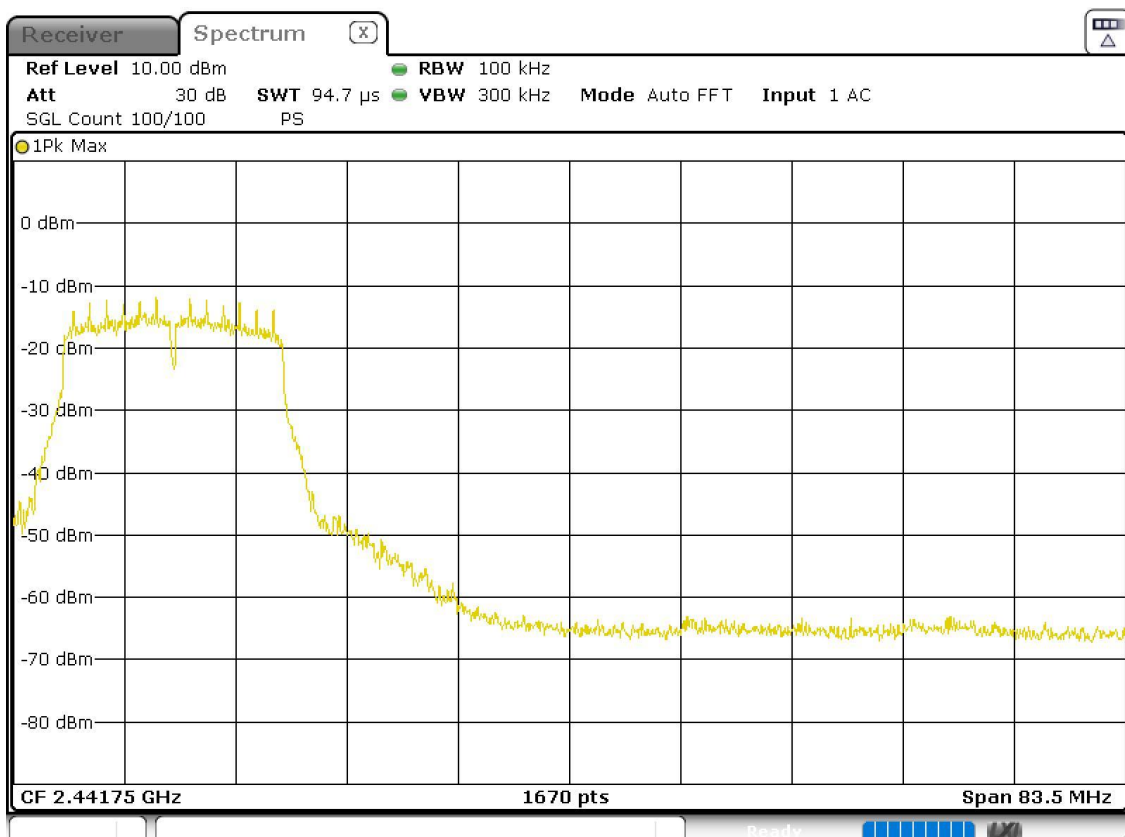
Band Edge



— Limit — Sum Level × Fail



TEST RESULTS (Cont.):



Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.775000	-31.8	1.2	-30.5	PASS
2399.725000	-31.9	1.4	-30.5	PASS
2399.825000	-32.4	1.8	-30.5	PASS
2398.875000	-32.4	1.9	-30.5	PASS
2398.925000	-32.5	1.9	-30.5	PASS
2399.675000	-32.8	2.2	-30.5	PASS
2399.575000	-33.0	2.4	-30.5	PASS
2399.625000	-33.0	2.4	-30.5	PASS
2398.975000	-33.1	2.5	-30.5	PASS
2398.825000	-33.1	2.6	-30.5	PASS
2399.525000	-33.3	2.8	-30.5	PASS
2399.475000	-33.5	3.0	-30.5	PASS
2399.375000	-33.7	3.1	-30.5	PASS
2399.325000	-33.8	3.2	-30.5	PASS
2399.425000	-33.9	3.3	-30.5	PASS

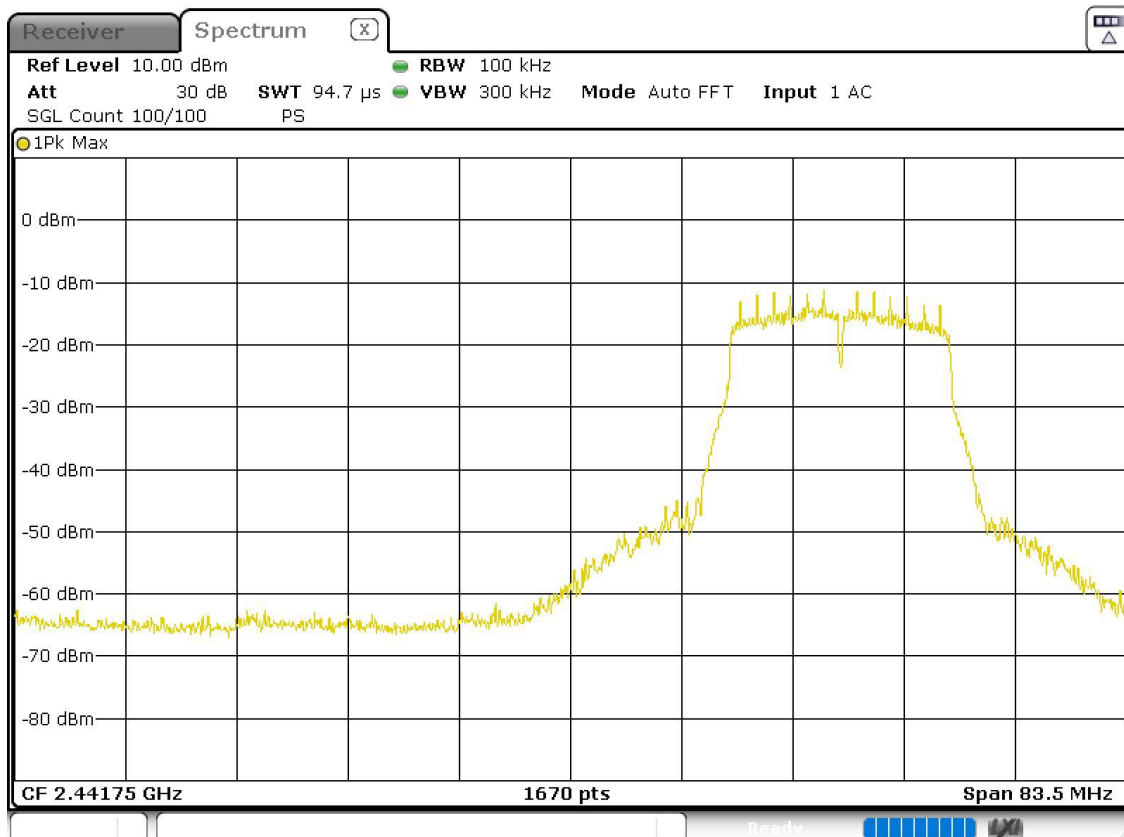
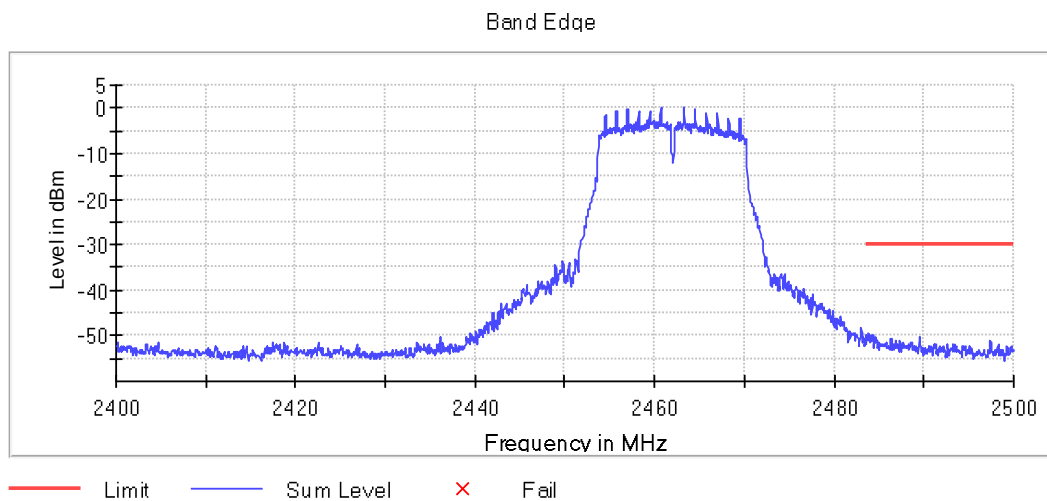
Spectrum Analyzer Parameters

Setting	Instrument Value	Instrument Value
Start Frequency	2.31000	2.40000 GHz
Stop Frequency	2.40000	2.48350 GHz
Span	90.000 MHz	83.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1800	1670
Sweep time	94.727 μ s	94.727 μ s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	11 / max.	27 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.35 dB	0.39 dB

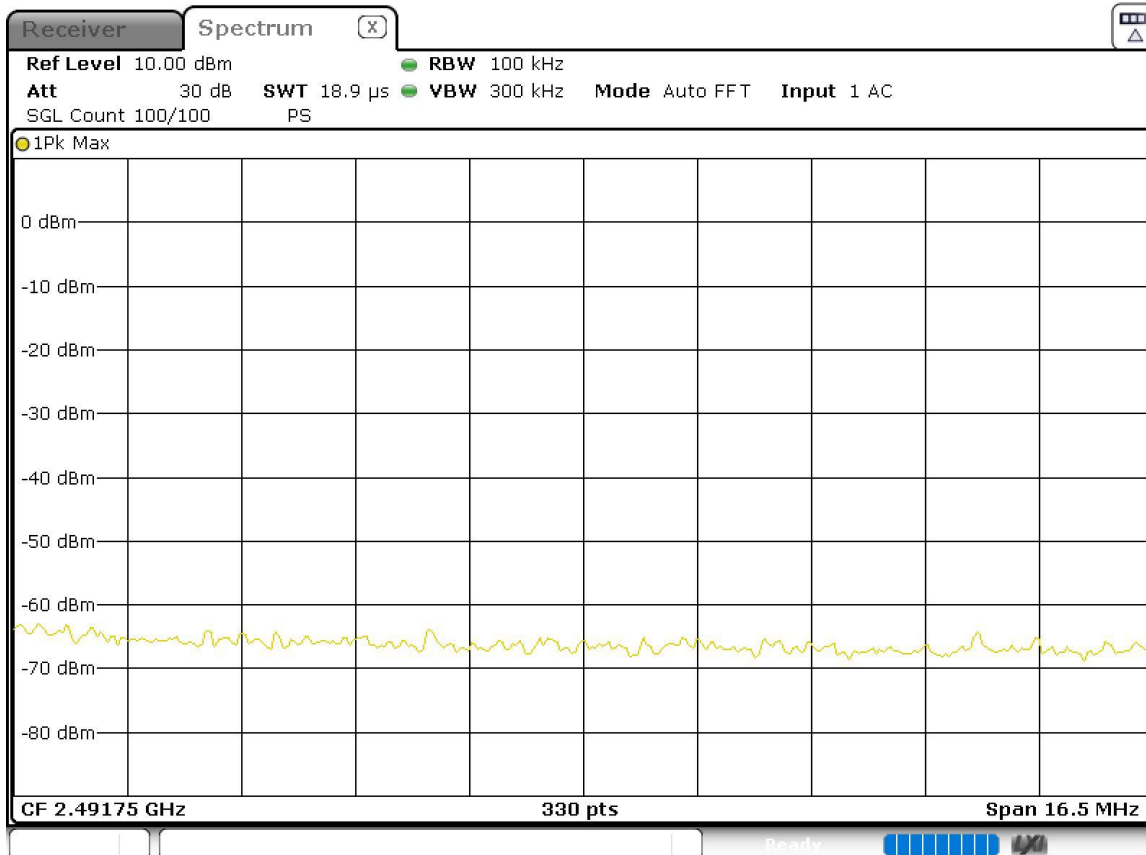
TEST RESULTS (Cont.):

Highest Channel

Highest Channel



TEST RESULTS (Cont.):



Measurement

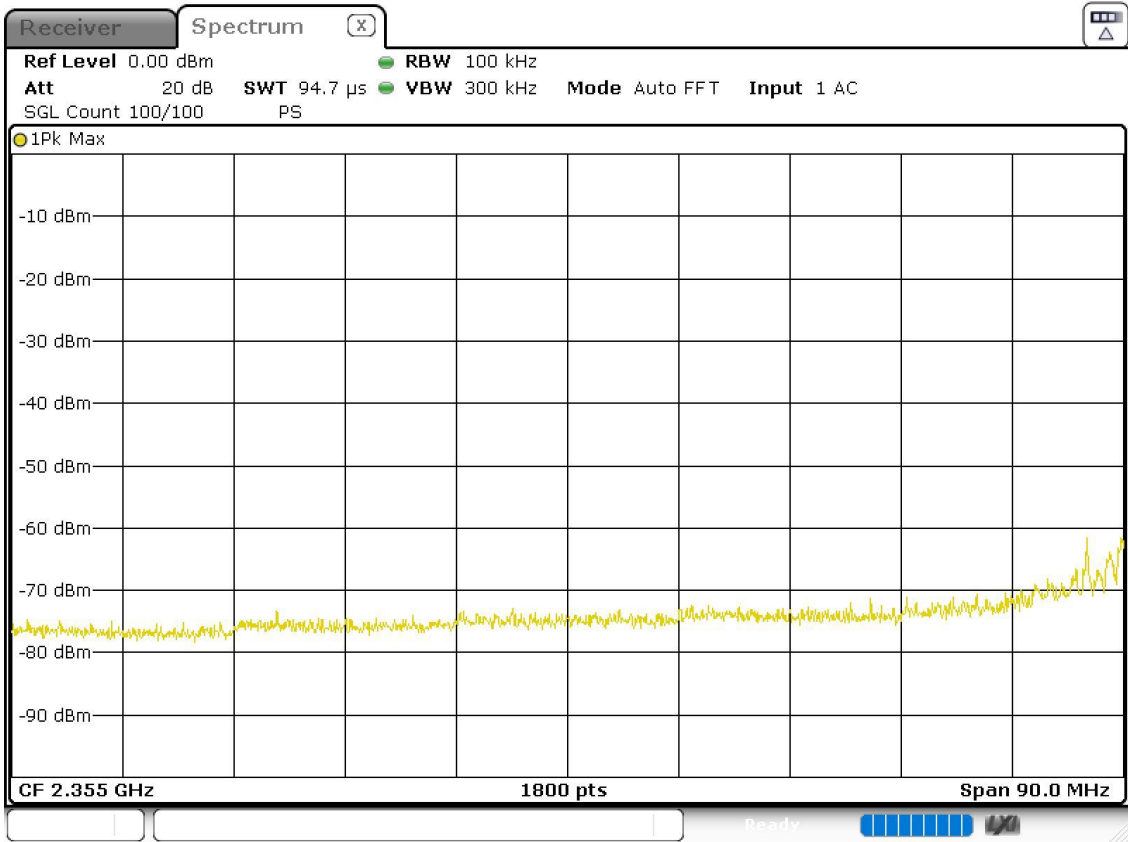
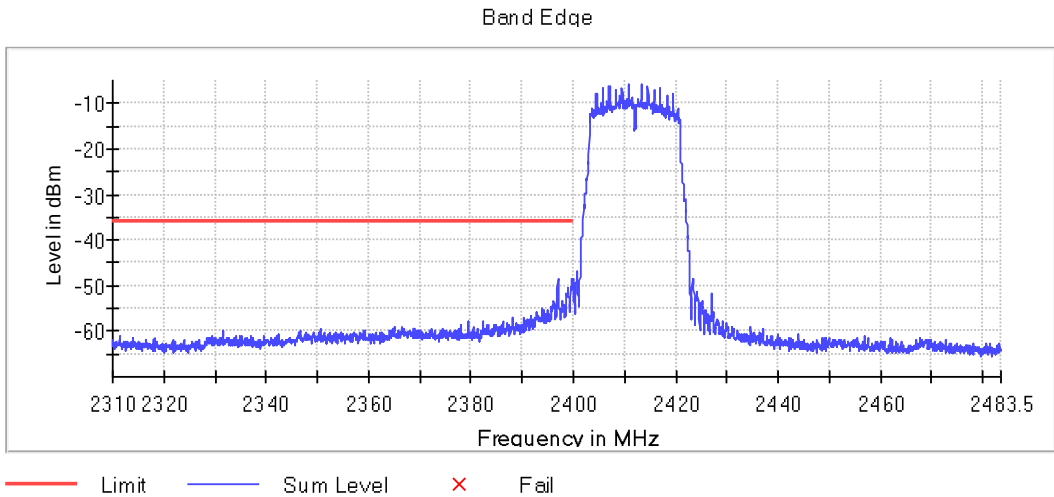
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.875000	-49.6	19.8	-29.8	PASS
2484.275000	-49.8	20.0	-29.8	PASS
2483.625000	-49.8	20.0	-29.8	PASS
2484.325000	-49.9	20.1	-29.8	PASS
2483.575000	-50.0	20.2	-29.8	PASS
2483.925000	-50.0	20.2	-29.8	PASS
2483.675000	-50.1	20.3	-29.8	PASS
2484.625000	-50.2	20.4	-29.8	PASS
2484.675000	-50.2	20.4	-29.8	PASS
2483.825000	-50.3	20.5	-29.8	PASS
2489.525000	-50.4	20.6	-29.8	PASS
2483.525000	-50.5	20.7	-29.8	PASS
2486.325000	-50.6	20.8	-29.8	PASS
2483.975000	-50.7	20.9	-29.8	PASS
2484.175000	-50.7	20.9	-29.8	PASS

Spectrum Analyzer Parameters

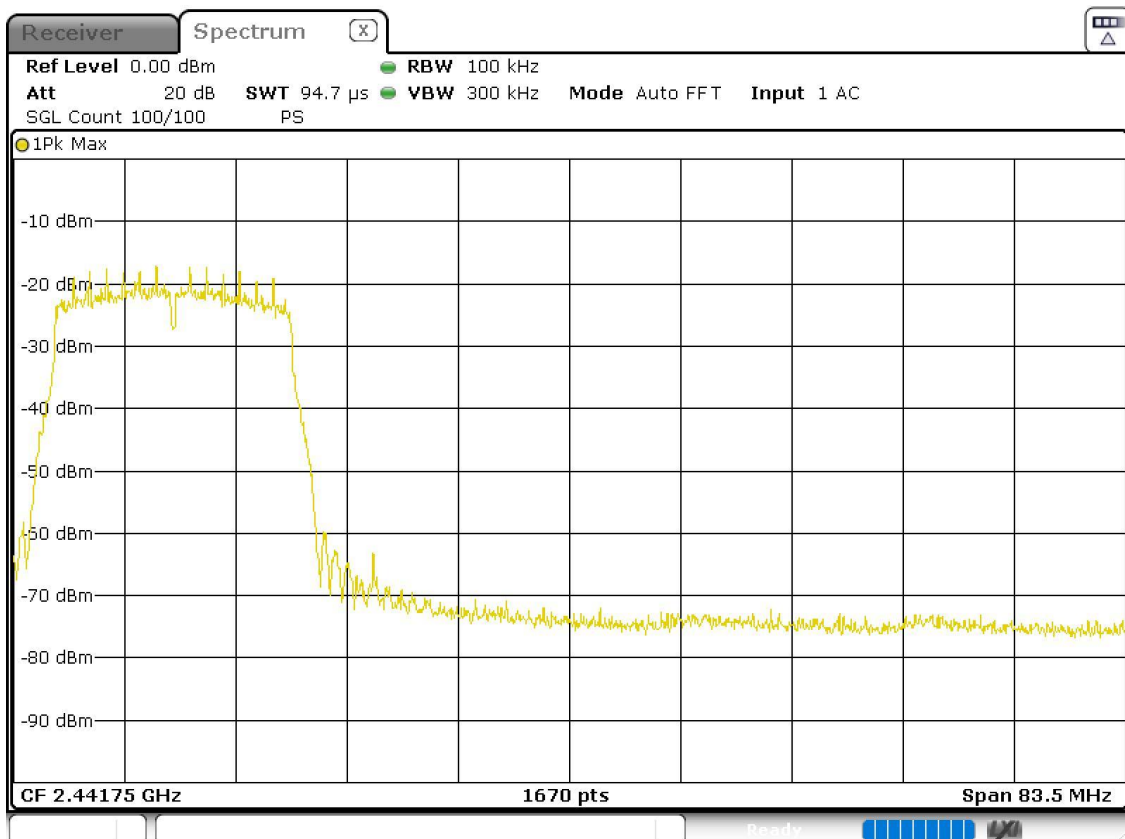
Setting	Instrument Value	Instrument Value
Start Frequency	2.40000 GHz	2.48350 GHz
Stop Frequency	2.48350 GHz	2.50000 GHz
Span	83.500 MHz	16.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1670	330
Sweep time	94.727 μ s	18.945 μ s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamplifier	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	65 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.05 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n mode 20 MHz)
TEST RESULTS:	PASS

Lowest Channel



TEST RESULTS (Cont.):



Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2396.975000	-48.3	12.6	-35.7	PASS
2399.725000	-48.3	12.6	-35.7	PASS
2399.775000	-48.3	12.6	-35.7	PASS
2397.025000	-48.4	12.7	-35.7	PASS
2399.875000	-48.5	12.8	-35.7	PASS
2399.925000	-48.8	13.1	-35.7	PASS
2399.825000	-48.9	13.1	-35.7	PASS
2399.975000	-49.8	14.0	-35.7	PASS
2399.525000	-49.9	14.2	-35.7	PASS
2399.475000	-50.2	14.4	-35.7	PASS
2399.675000	-50.3	14.6	-35.7	PASS
2398.875000	-50.4	14.7	-35.7	PASS
2396.925000	-50.5	14.8	-35.7	PASS
2399.625000	-50.6	14.9	-35.7	PASS
2398.825000	-50.6	14.9	-35.7	PASS

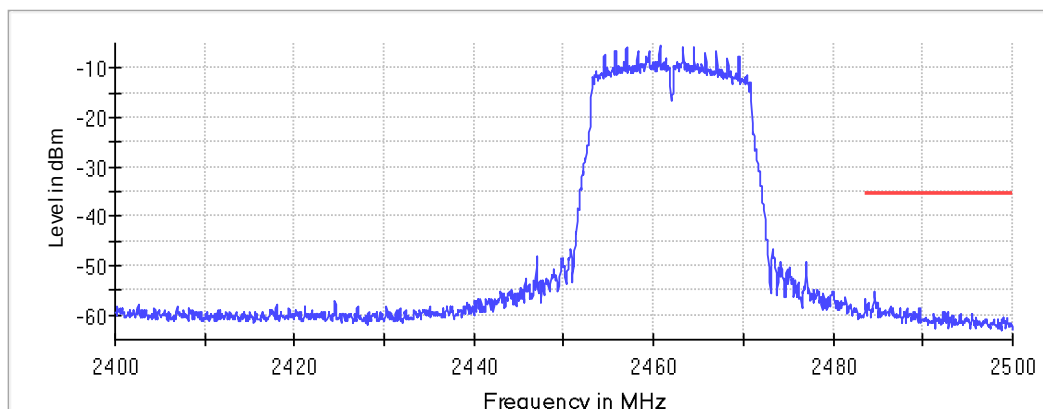
Spectrum Analyzer Parameters

Setting	Instrument Value	Instrument Value
Start Frequency	2.31000	2.40000 GHz
Stop Frequency	2.40000	2.48350 GHz
Span	90.000 MHz	83.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1800	1670
Sweep time	94.727 μ s	94.727 μ s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	19 / max.	22 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.10 dB	0.40 dB

TEST RESULTS (Cont.):

Highest Channel

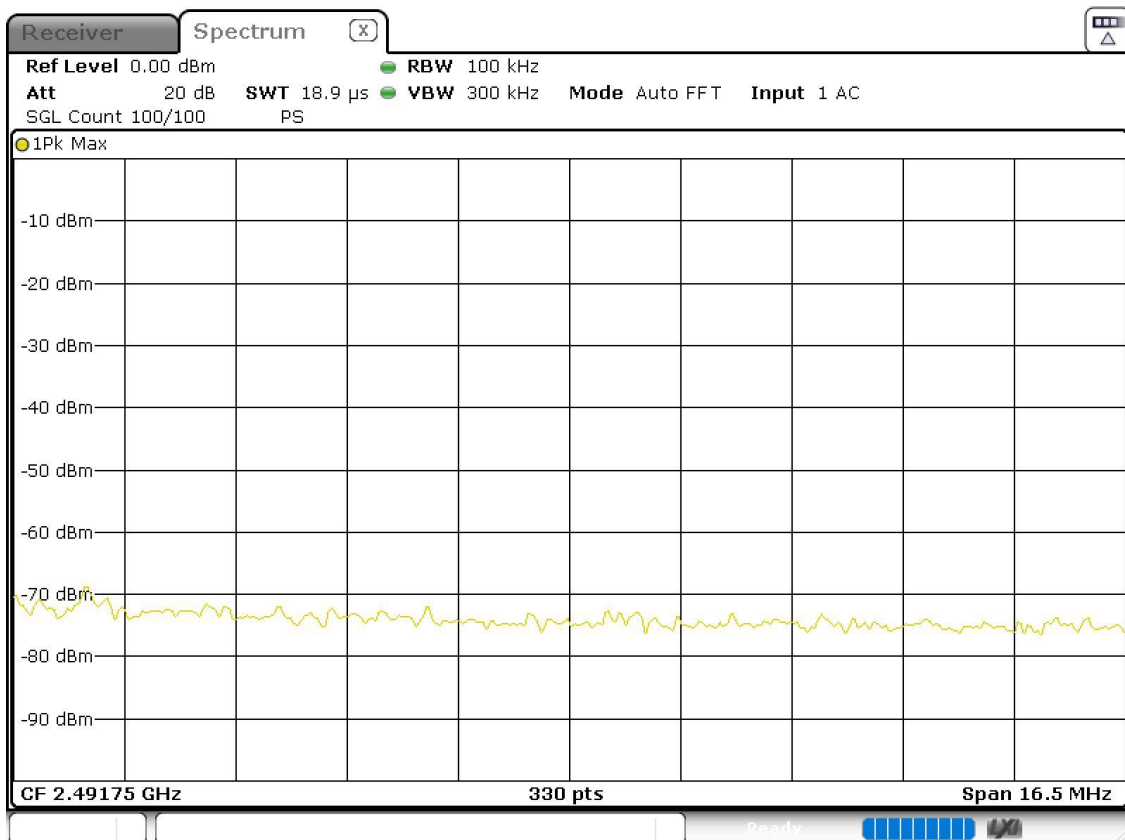
Band Edge



— Limit — Sum Level × Fail



TEST RESULTS (Cont.):



Measurement

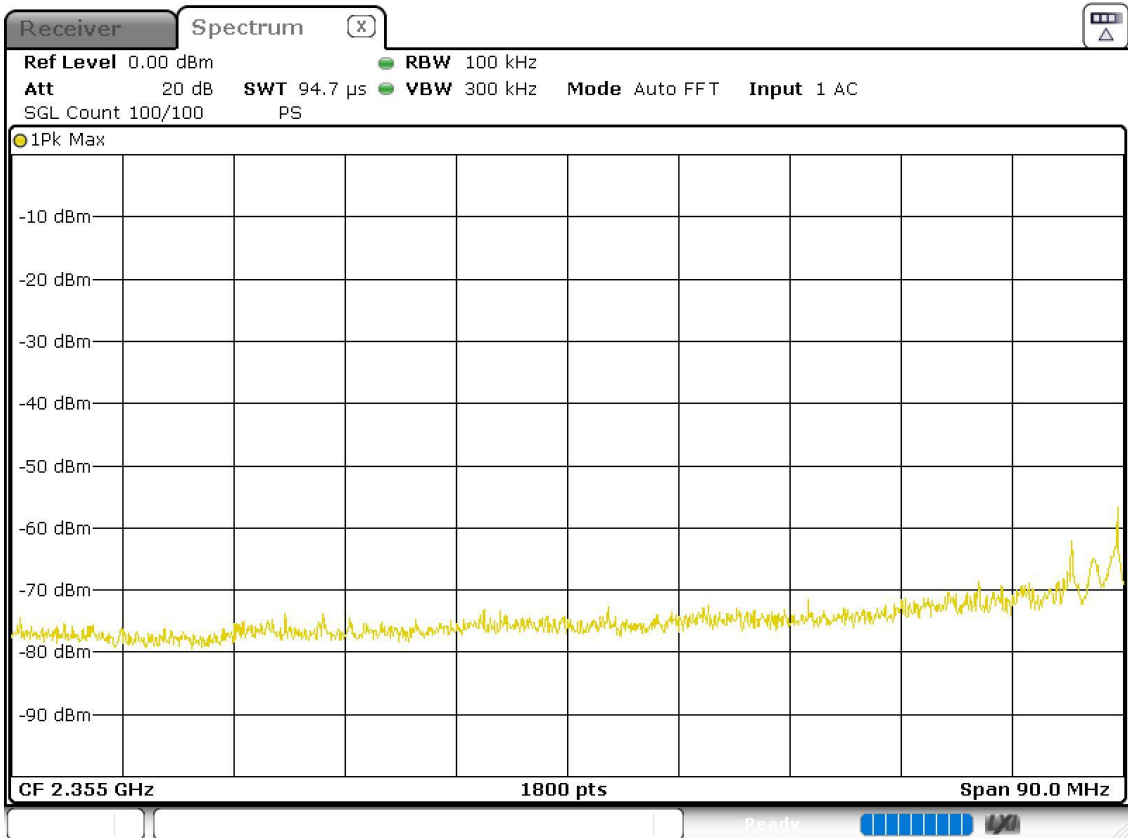
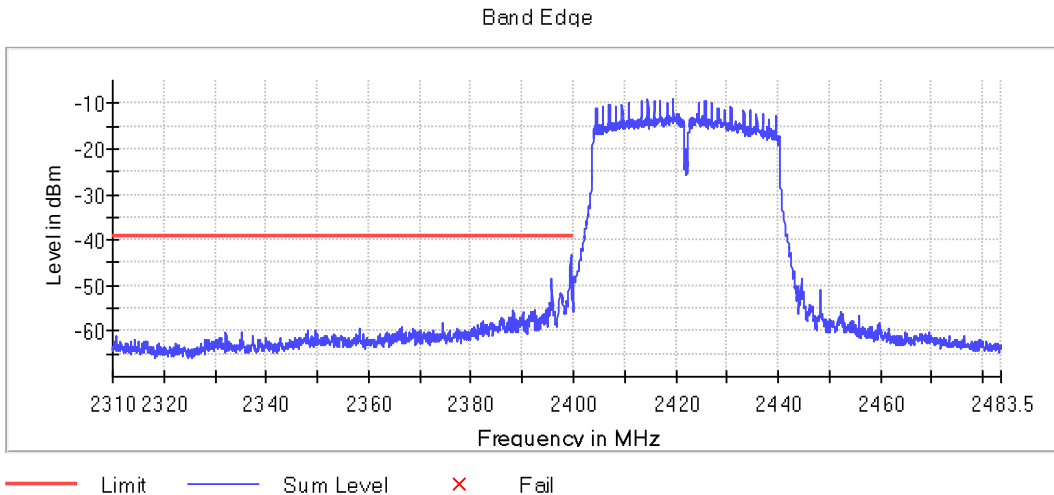
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.625000	-55.4	19.9	-35.5	PASS
2484.575000	-55.5	20.0	-35.5	PASS
2484.675000	-56.5	21.1	-35.5	PASS
2483.575000	-56.9	21.4	-35.5	PASS
2483.525000	-57.1	21.6	-35.5	PASS
2484.525000	-57.1	21.6	-35.5	PASS
2484.925000	-57.3	21.9	-35.5	PASS
2484.875000	-57.4	21.9	-35.5	PASS
2483.925000	-57.6	22.1	-35.5	PASS
2483.875000	-57.8	22.3	-35.5	PASS
2484.475000	-58.1	22.6	-35.5	PASS
2486.375000	-58.1	22.7	-35.5	PASS
2484.825000	-58.2	22.7	-35.5	PASS
2484.725000	-58.2	22.7	-35.5	PASS
2483.625000	-58.4	22.9	-35.5	PASS

Spectrum Analyzer Parameters

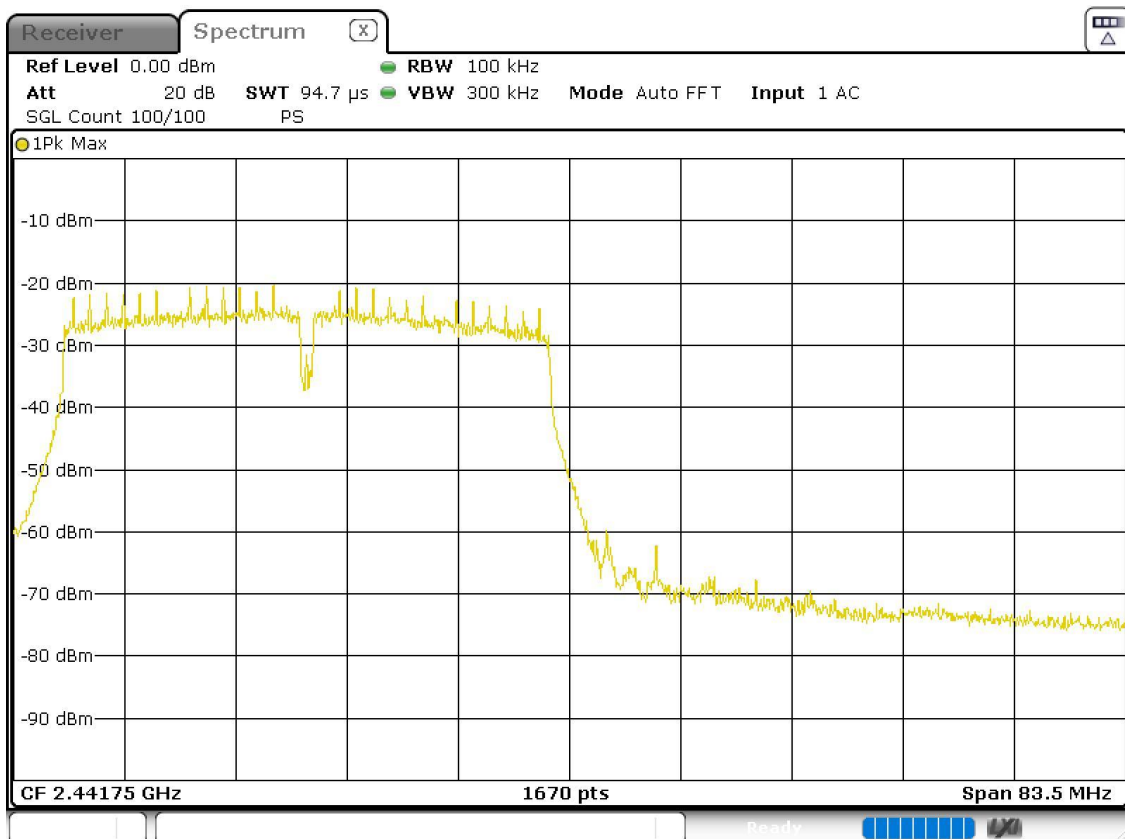
Setting	Instrument Value	Instrument Value
Start Frequency	2.40000 GHz	2.48350 GHz
Stop Frequency	2.48350 GHz	2.50000 GHz
Span	83.500 MHz	16.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1670	330
Sweep time	94.727 μ s	18.945 μ s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	21 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.47 dB	0.00 dB

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n mode 40 MHz)
TEST RESULTS:	PASS

Lowest Channel



TEST RESULTS (Cont.):



Measurement

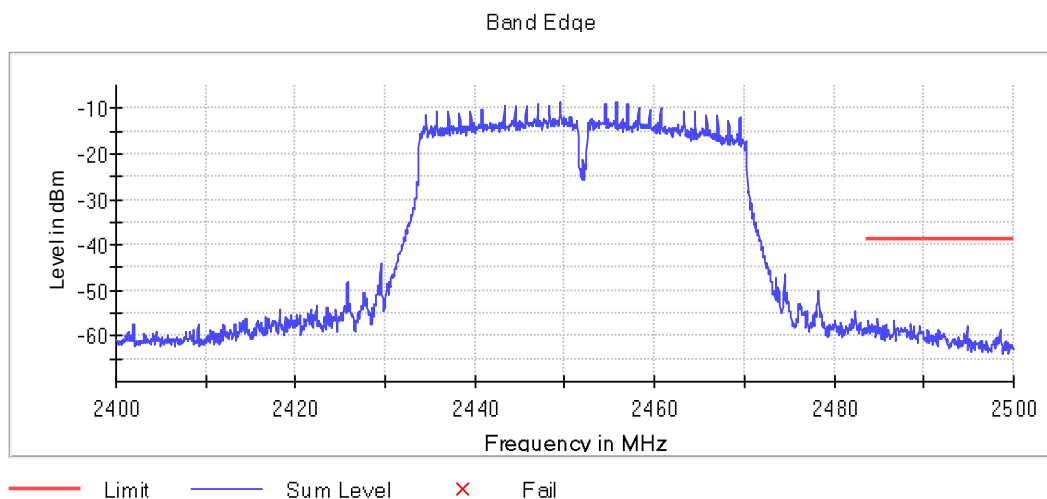
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.525000	-43.3	4.3	-39.0	PASS
2399.475000	-43.3	4.3	-39.0	PASS
2399.575000	-45.5	6.4	-39.0	PASS
2399.425000	-45.9	6.8	-39.0	PASS
2395.775000	-48.6	9.6	-39.0	PASS
2395.725000	-48.7	9.7	-39.0	PASS
2399.375000	-49.6	10.6	-39.0	PASS
2399.275000	-49.6	10.6	-39.0	PASS
2399.325000	-49.7	10.7	-39.0	PASS
2399.225000	-50.2	11.1	-39.0	PASS
2395.825000	-50.3	11.3	-39.0	PASS
2399.125000	-50.4	11.4	-39.0	PASS
2399.175000	-50.6	11.6	-39.0	PASS
2399.625000	-51.0	11.9	-39.0	PASS
2395.675000	-51.1	12.1	-39.0	PASS

Spectrum Analyzer Parameters

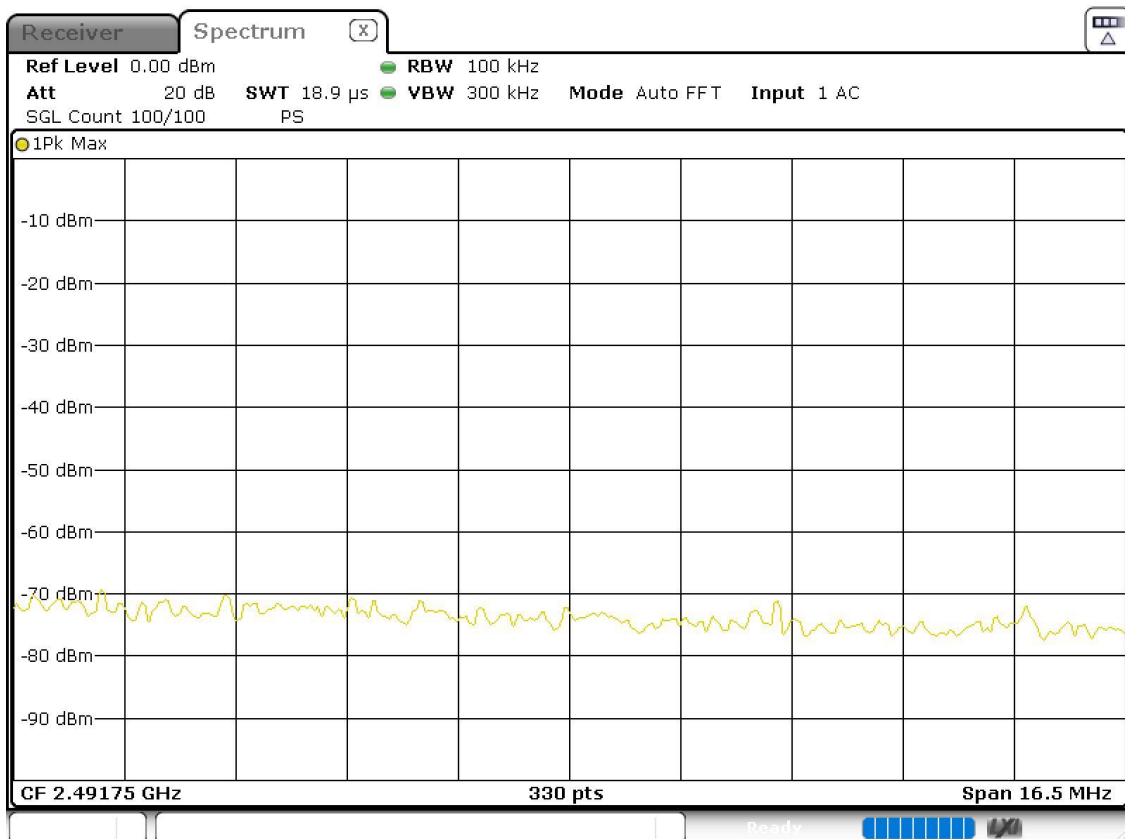
Setting	Instrument Value	Instrument Value
Start Frequency	2.31000	2.40000 GHz
Stop Frequency	2.40000	2.48350 GHz
Span	90.000 MHz	83.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1800	1670
Sweep time	94.727 μ s	94.727 μ s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	5 / max. 150	80 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.00 dB	0.27 dB

TEST RESULTS (Cont.):

Highest Channel



TEST RESULTS (Cont.):



Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.825000	-56.0	17.3	-38.7	PASS
2484.875000	-56.5	17.8	-38.7	PASS
2486.675000	-56.7	18.0	-38.7	PASS
2484.775000	-56.7	18.0	-38.7	PASS
2483.825000	-56.8	18.1	-38.7	PASS
2486.625000	-56.9	18.2	-38.7	PASS
2483.775000	-57.2	18.5	-38.7	PASS
2488.525000	-57.4	18.6	-38.7	PASS
2484.225000	-57.4	18.7	-38.7	PASS
2486.725000	-57.4	18.7	-38.7	PASS
2485.775000	-57.5	18.8	-38.7	PASS
2484.175000	-57.6	18.8	-38.7	PASS
2483.875000	-57.6	18.9	-38.7	PASS
2489.525000	-57.7	19.0	-38.7	PASS
2488.575000	-57.7	19.0	-38.7	PASS

Spectrum Analyzer Parameters

Setting	Instrument Value	Instrument Value
Start Frequency	2.40000 GHz	2.48350 GHz
Stop Frequency	2.48350 GHz	2.50000 GHz
Span	83.500 MHz	16.500 MHz
RBW	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz
Sweep Points	1670	330
Sweep time	94.727 μ s	18.945 μ s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
Sweep Count	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweep type	FFT	FFT
Preamp	off	off
Stable mode	Trace	Trace
Stable value	0.50 dB	0.50 dB
Run	54 / max. 150	4 / max. 150
Stable	3 / 3	3 / 3
Max Stable	0.32 dB	0.00 dB

TEST B.4: POWER SPECTRAL DENSITY

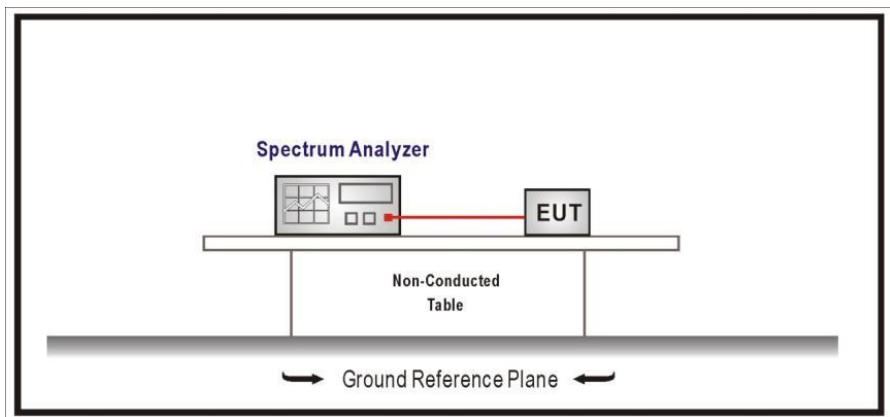
LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	Part 15 Subpart C §15.247(e) and RSS-247 5.2 (b)

LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST SETUP

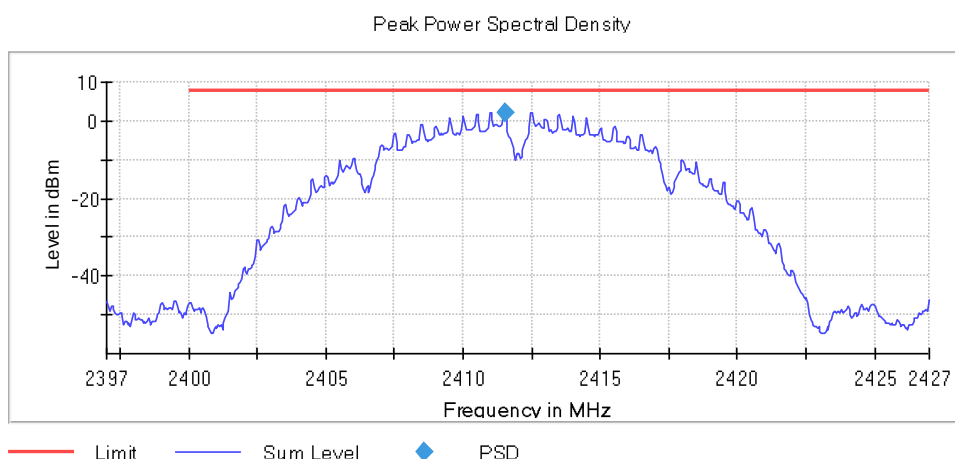
For all modes, the maximum power spectral density level in the fundamental emission was measured using the method AVGPSD-1 according to point 10.3. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v04 dated 05/04/2017.



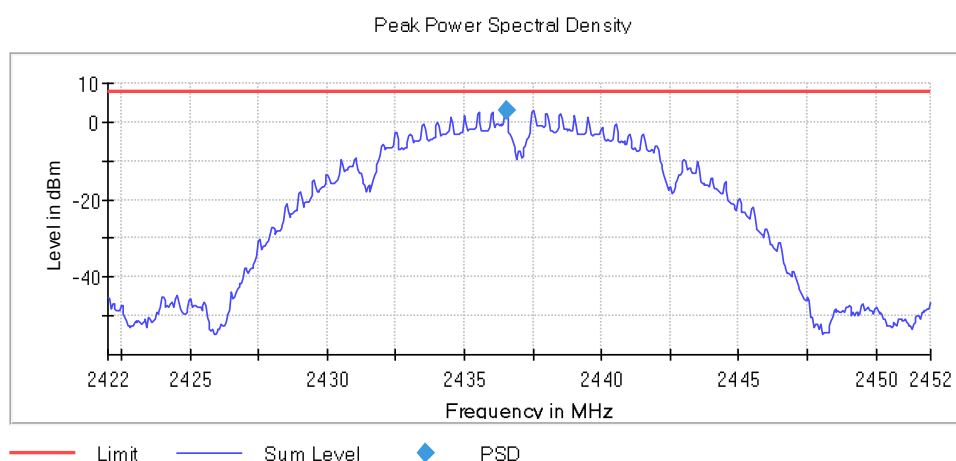
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (b mode)
TEST RESULTS:	PASS

	Lowest frequency 2412 MHz	Middle frequency 2442 MHz	Highest frequency 2462 MHz
Power spectral density (dBm)	2.29	2.83	2.63
Measurement uncertainty (dB)	<±0.78		

Lowes Channel

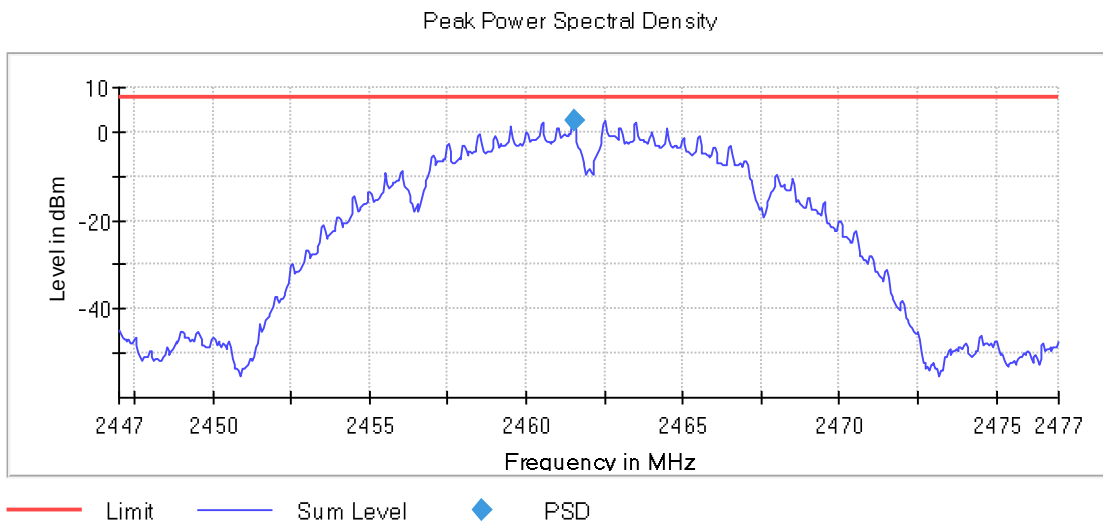


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



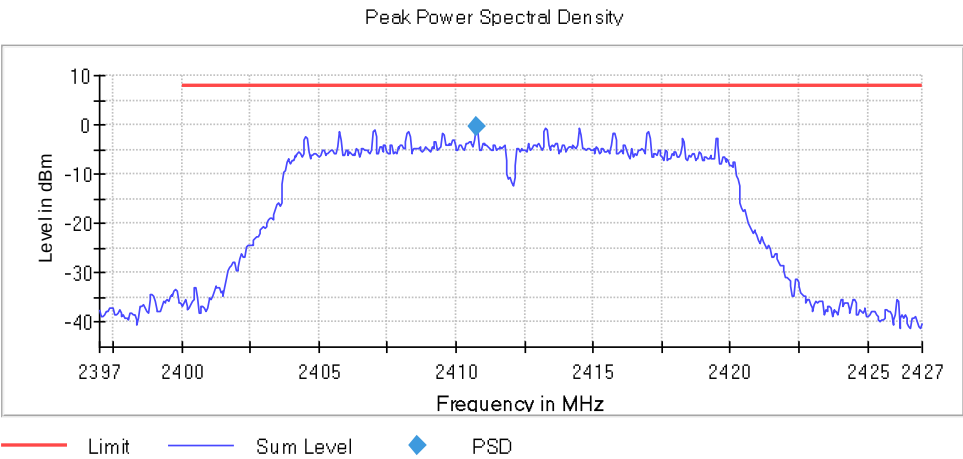
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39700	2.42200 GHz	2.44700 GHz
Stop Frequency	2.42700	2.45200 GHz	2.47700 GHz
Span	30.000 MHz	30.000 MHz	30.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	600	600	600
Sweep time	1.040 ms	1.040 ms	1.040 ms
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	Sweep	Sweep	Sweep
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	9 / max. 150	7 / max. 150	5 / max. 150
Stable	2 / 2	2 / 2	2 / 2
Max Stable	0.17 dB	0.32 dB	0.37 dB

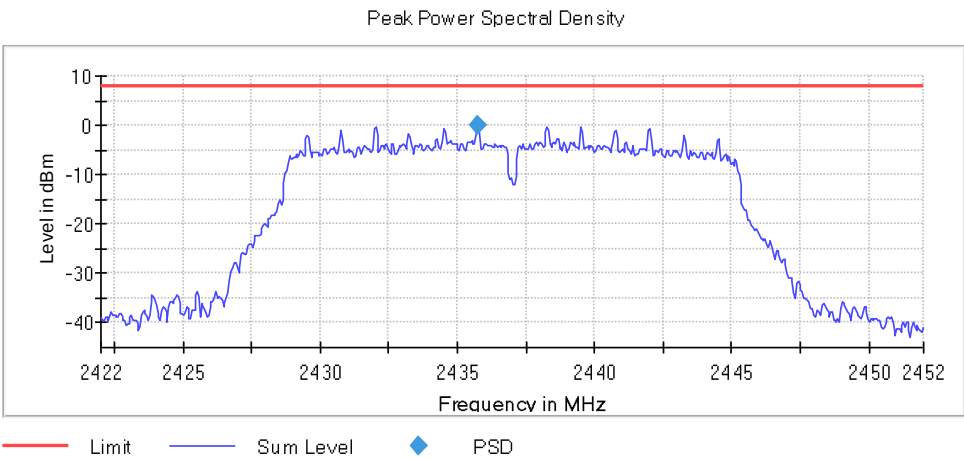
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode)
TEST RESULTS:	PASS

	Lowest frequency 2412 MHz	Middle frequency 2442 MHz	Highest frequency 2462 MHz
Power spectral density (dBm)	-0.42	-0.07	0.12
Measurement uncertainty (dB)	<±0.78		

Lowest Channel



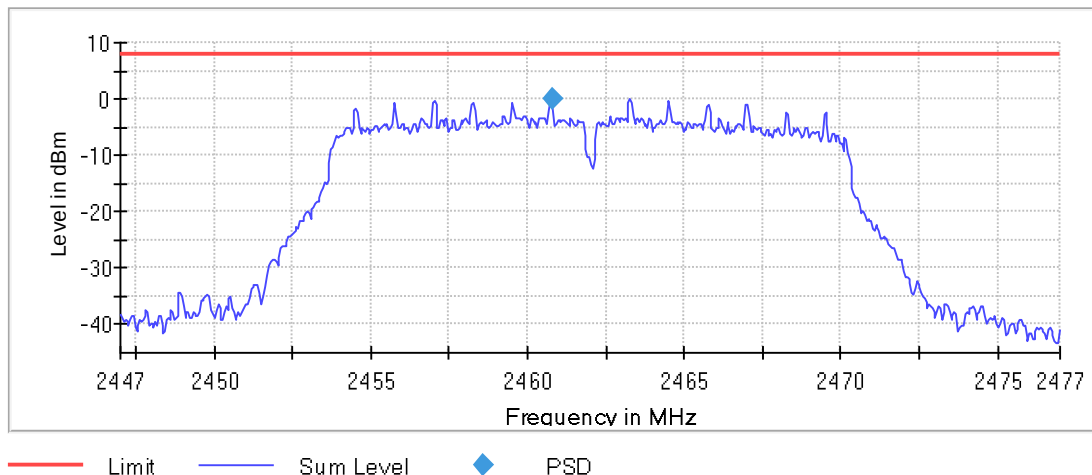
Middle Channel



TEST RESULTS (Cont.):

Highest Channel

Peak Power Spectral Density



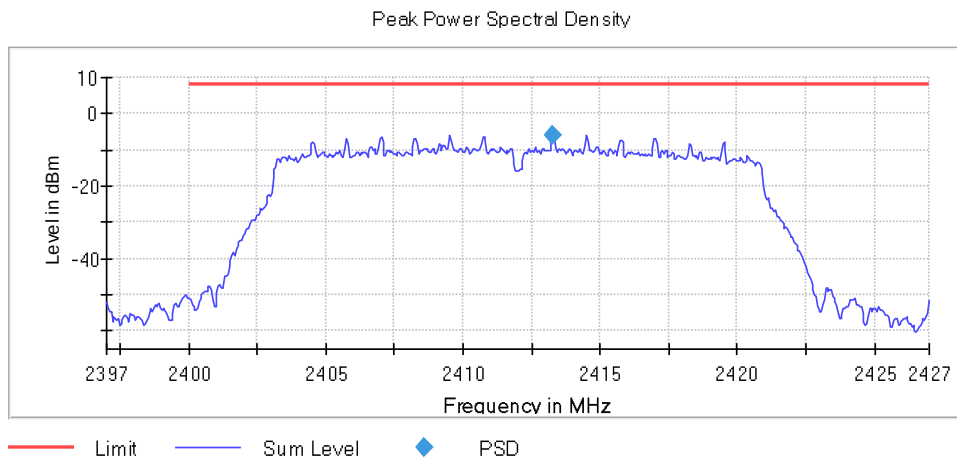
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39700	2.42200 GHz	2.44700
Stop Frequency	2.42700	2.45200 GHz	2.47700
Span	30.000 MHz	30.000 MHz	30.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	600	600	600
Sweep time	1.040 ms	1.040 ms	1.040 ms
Reference Level	10.000 dBm	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	Sweep	Sweep	Sweep
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	17 / max.	10 / max. 150	9 / max. 150
Stable	2 / 2	2 / 2	2 / 2
Max Stable	0.13 dB	0.46 dB	0.49 dB

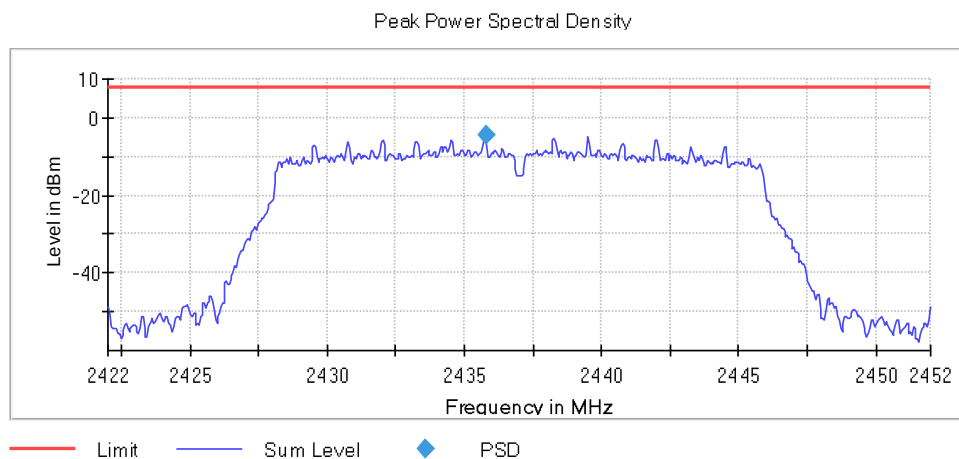
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n mode 20 MHz)
TEST RESULTS:	PASS

	Lowest frequency 2412 MHz	Middle frequency 2442 MHz	Highest frequency 2462 MHz
Power spectral density (dBm)	-5.96	-4.58	-5.45
Measurement uncertainty (dB)	<±0.78		

Lowest Channel

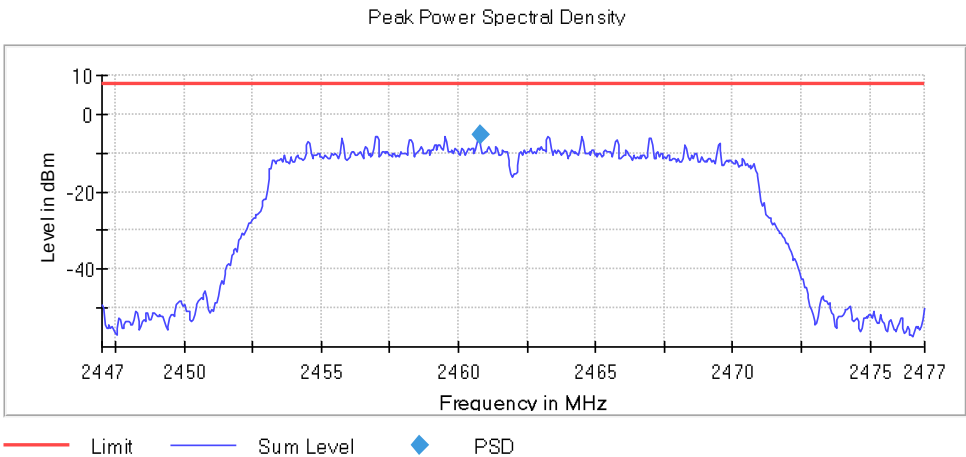


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



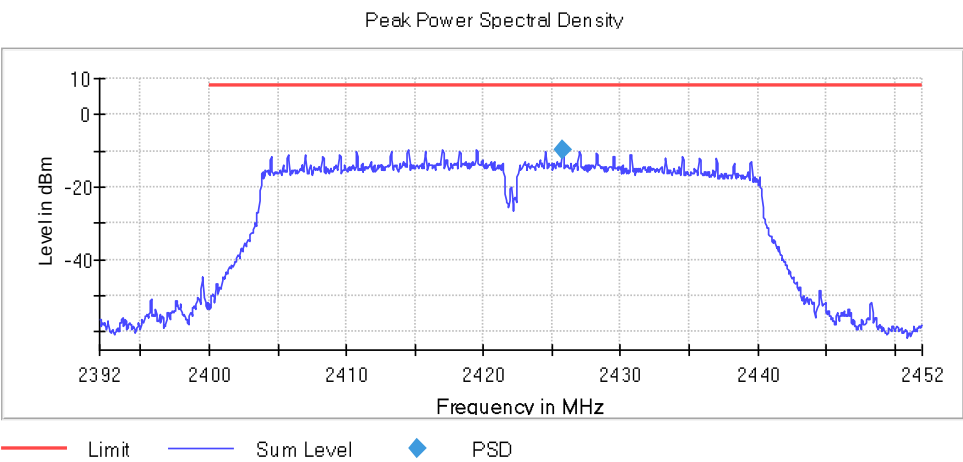
Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39700 GHz	2.42200 GHz	2.44700 GHz
Stop Frequency	2.42700 GHz	2.45200 GHz	2.47700 GHz
Span	30.000 MHz	30.000 MHz	30.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	600	600	600
Sweep time	1.040 ms	1.040 ms	1.040 ms
Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	Sweep	Sweep	Sweep
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	27 / max. 150	33 / max. 150	22 / max. 150
Stable	2 / 2	2 / 2	2 / 2
Max Stable	0.21 dB	0.12 dB	0.31 dB

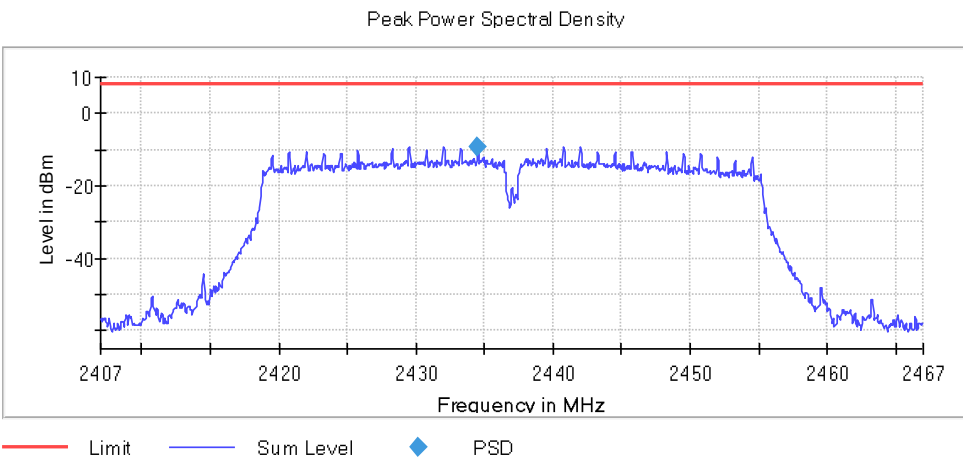
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n mode 40 MHz)
TEST RESULTS:	PASS

	Lowest frequency 2422 MHz	Middle frequency 2442 MHz	Highest frequency 2452 MHz
Power spectral density (dBm)	-9.50	-9.03	-8.25
Measurement uncertainty (dB)	<±0.78		

Lowest Channel

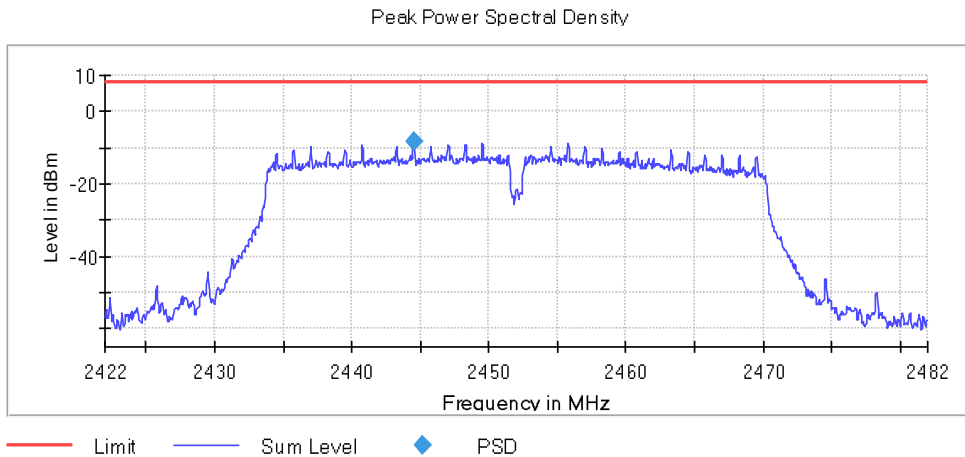


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.40700 GHz	2.42200 GHz
Stop Frequency	2.45200 GHz	2.46700 GHz	2.48200 GHz
Span	60.000 MHz	60.000 MHz	60.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	1200	1200	1200
Sweep time	1.200 ms	1.200 ms	1.200 ms
Reference Level	0.000 dBm	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak	MaxPeak
Sweep Count	100	100	100
Filter	3 dB	3 dB	3 dB
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep type	Sweep	Sweep	Sweep
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	39 / max. 150	60 / max. 150	44 / max. 150
Stable	2 / 2	2 / 2	2 / 2
Max Stable Difference	0.39 dB	0.49 dB	0.37 dB

TEST B.5: EMISSION LIMITATIONS RADIATED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	Part 15 Subpart C §15.247(d) and RSS-247 5.5

LIMITS

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) / RSS-Gen):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247. Attenuation below the general field strength limits specified in RSS-Gen is not required

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-40 GHz Double ridge horn antennas).

For radiated emissions in the range 1-40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

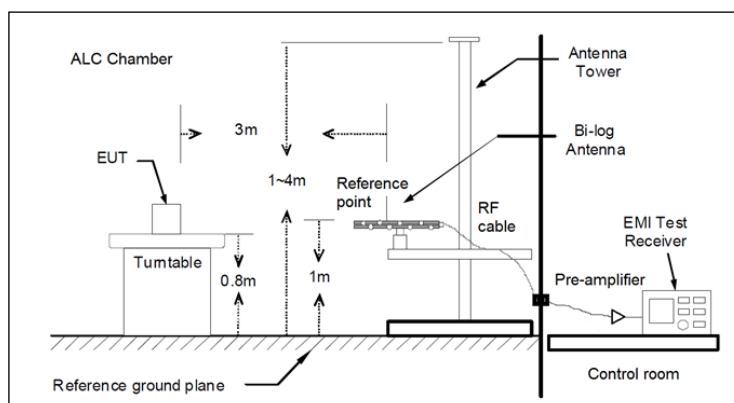
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

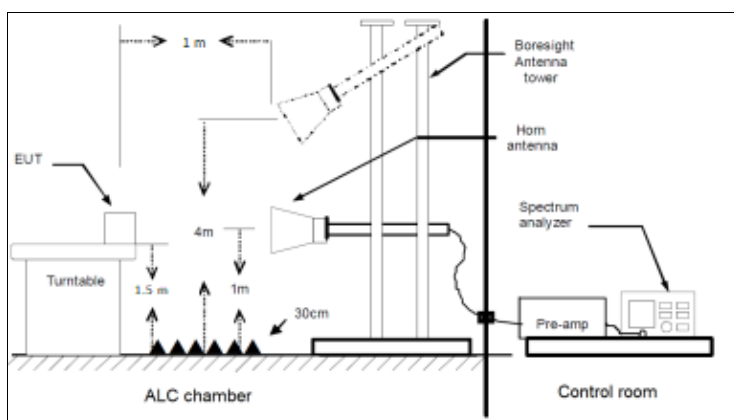
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01 (b mode)
TEST RESULTS:	PASS

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel and mode selected in the EUT.
The results in the following plots and tables show the maximum measured levels in the 30-1000 MHz range.

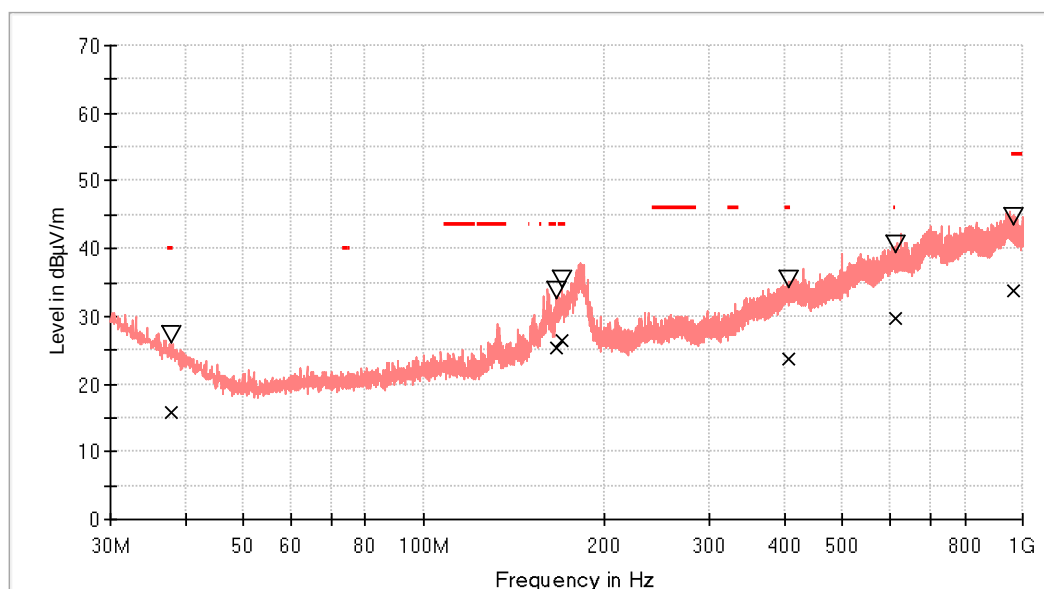
Frequency range 1 GHz – 26 GHz

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz. (see next plots).

TEST RESULTS (Cont.)	30 MHz – 1 GHz
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CHANNEL: Middle (2412 MHz).

RF_FCC_15.247_E Field_30MHz_1GHz



—	PK+_MAXH
- - -	TX limits to Spurious Emission FCC15.247 (30MHz to 1GHz) Restricted Bands QPK Limit
v	MaxPeak-PK+ (Single)
x	QuasiPeak-QPK (Single)

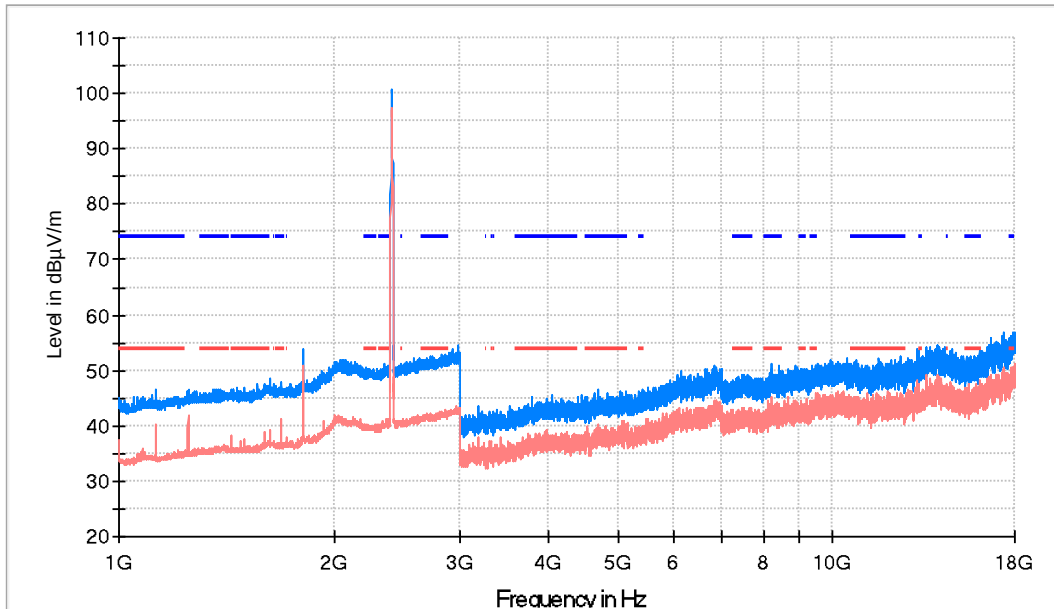
Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBµV/m)
37.857000	27.2	15.8	V	24.2	40.0
167.012500	33.9	25.4	V	18.1	43.5
170.504500	35.4	26.4	V	17.2	43.5
406.214500	35.4	23.7	V	22.3	46.0
611.224000	40.7	29.8	V	16.2	46.0
963.237000	44.7	33.7	V	20.3	54.0

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Low (2412 MHz).



— PK+_MAXH
 — TXlimits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
 - - TXlimits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 - - AVG_MAXH

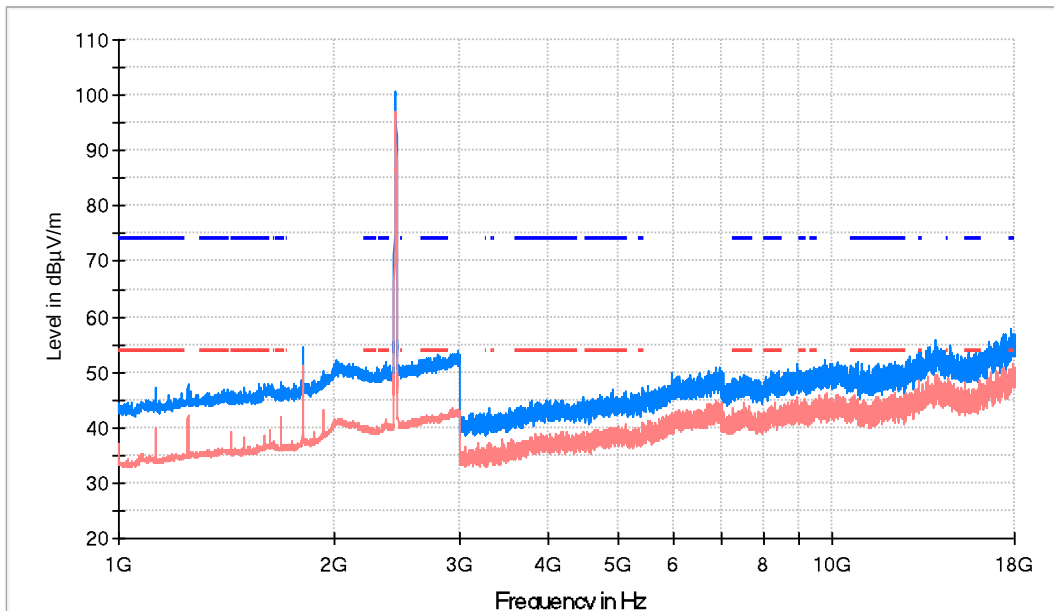
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	47.3	41.4	V	12.6	54.0	
2411.000000	100.8	97.2	V	---	---	Fundamental
8204.500000	51.1	45.1	V	8.9	54.0	
17854.500000	54.5	50.7	V	3.3	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Middle (2442 MHz).



— PK+_MAXH
— TXlimits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
- - - TXlimits to Spurious Emission FCC15.247 Restricted Bands PK Limit
— AVG_MAXH

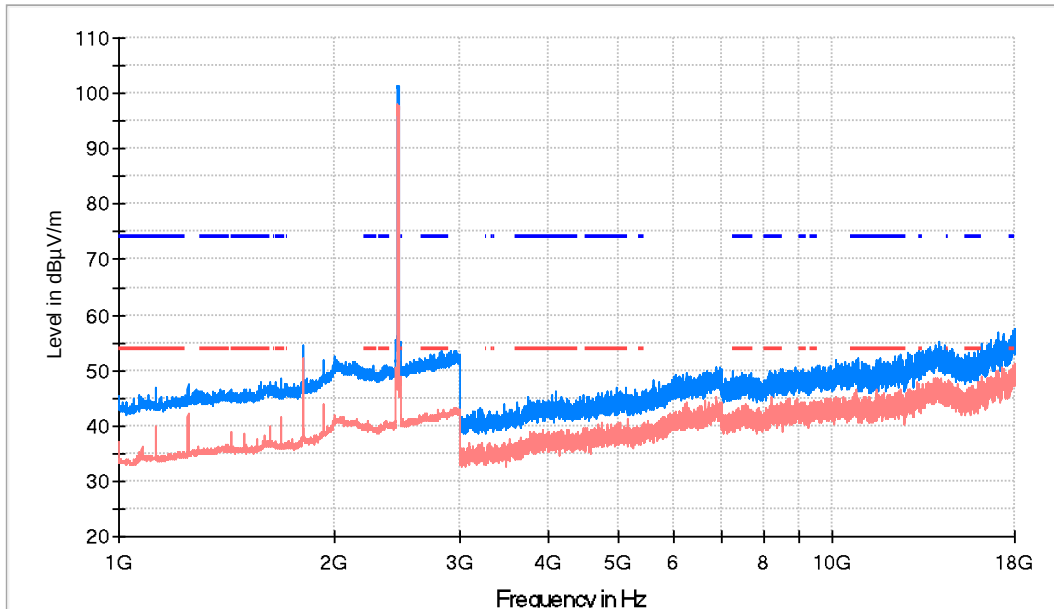
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1125.000000	47.1	39.0	V	15.0	54.0	
1687.500000	48.2	42.0	V	12.0	54.0	
2441.000000	100.6	97.0	V	---	---	Fundamental

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Highest (2462 MHz).



— PK+_MAXH
 — TXlimits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
 - - TXlimits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 — AVG_MAXH

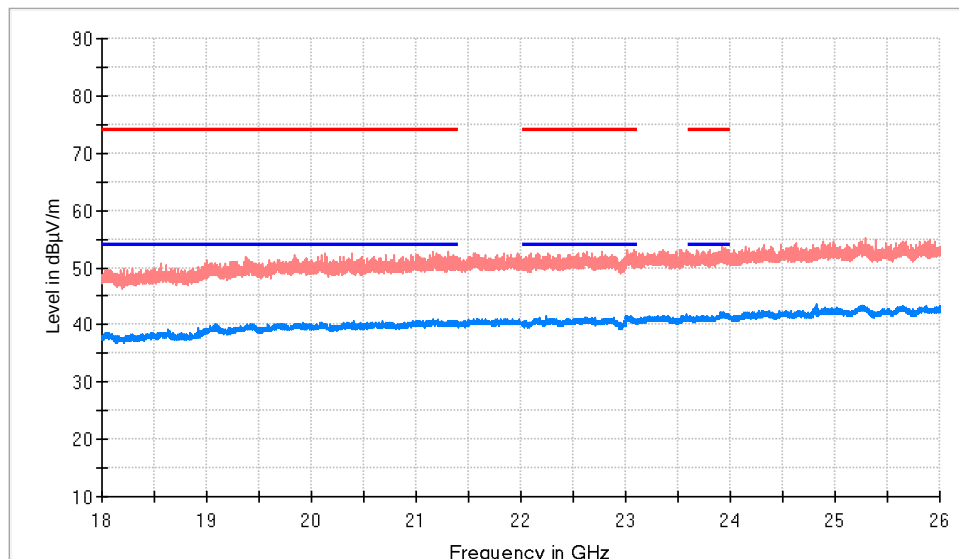
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1125.000000	46.7	39.8	V	14.2	54.0	
1687.500000	48.2	41.6	V	12.4	54.0	
2460.500000	101.5	97.5	V	---	---	Fundamental

TEST RESULTS (Cont.)

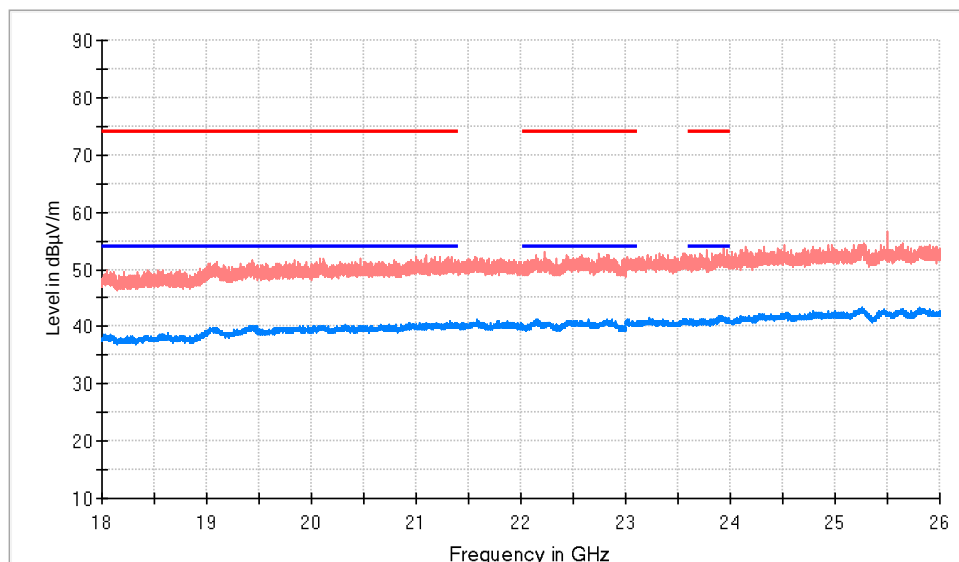
18 GHz – 26 GHz

CHANNEL: Lowest (2412 MHz).



— AVG_MAXH
— PK+_MAXH
— TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
— TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit

CHANNEL: Middle (2442 MHz).

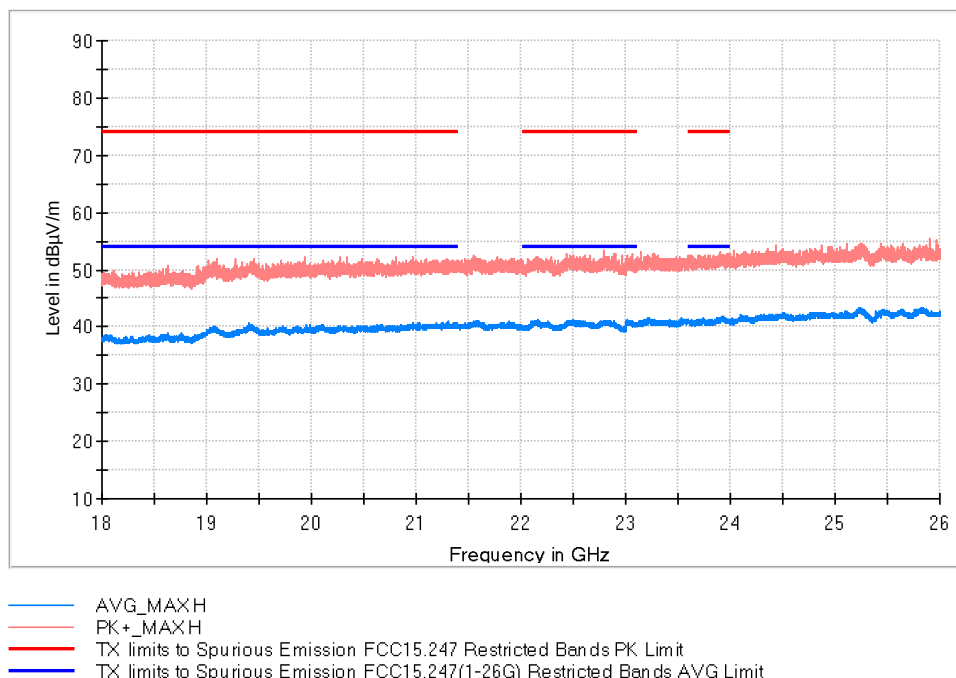


— AVG_MAXH
— PK+_MAXH
— TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
— TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

18 GHz – 26 GHz

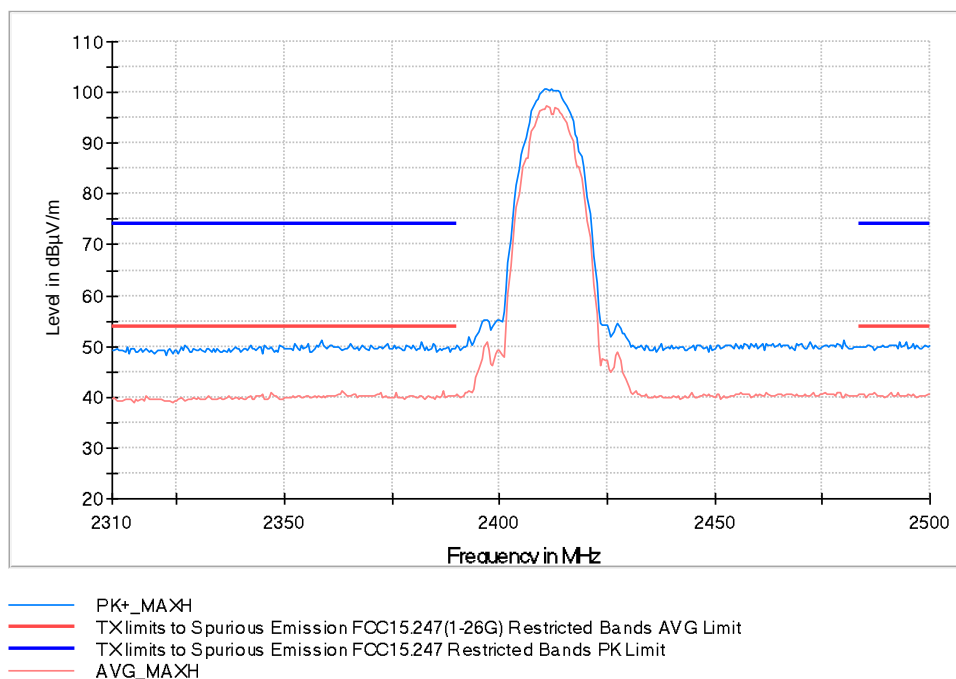
CHANNEL: Highest (2462 MHz).



RESTRICTED BANDS

2.31 GHz – 2.5 GHz

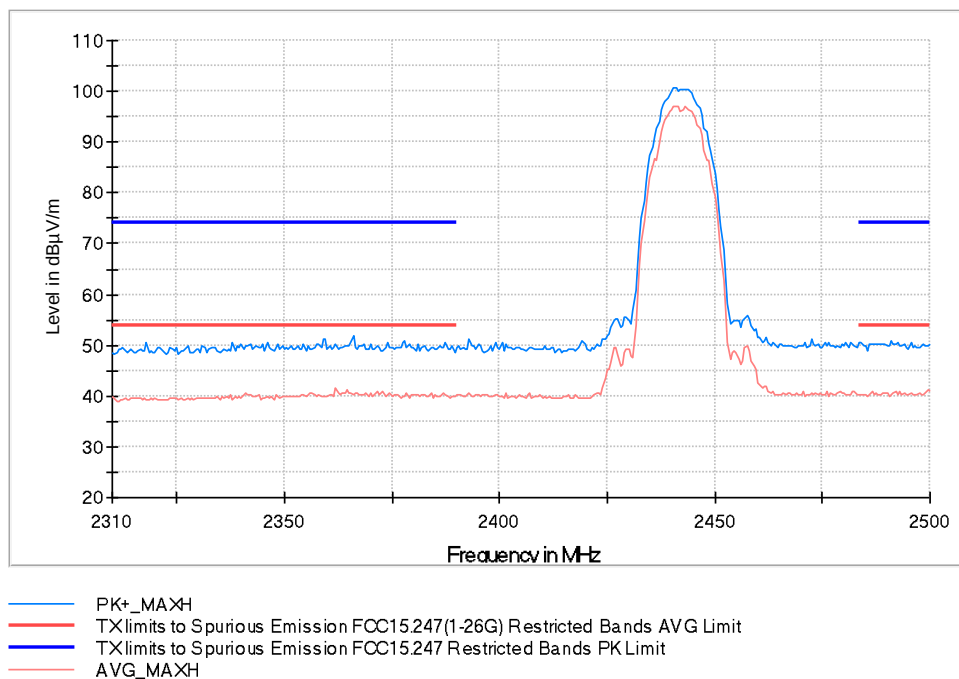
CHANNEL: Lowest (2412 MHz)



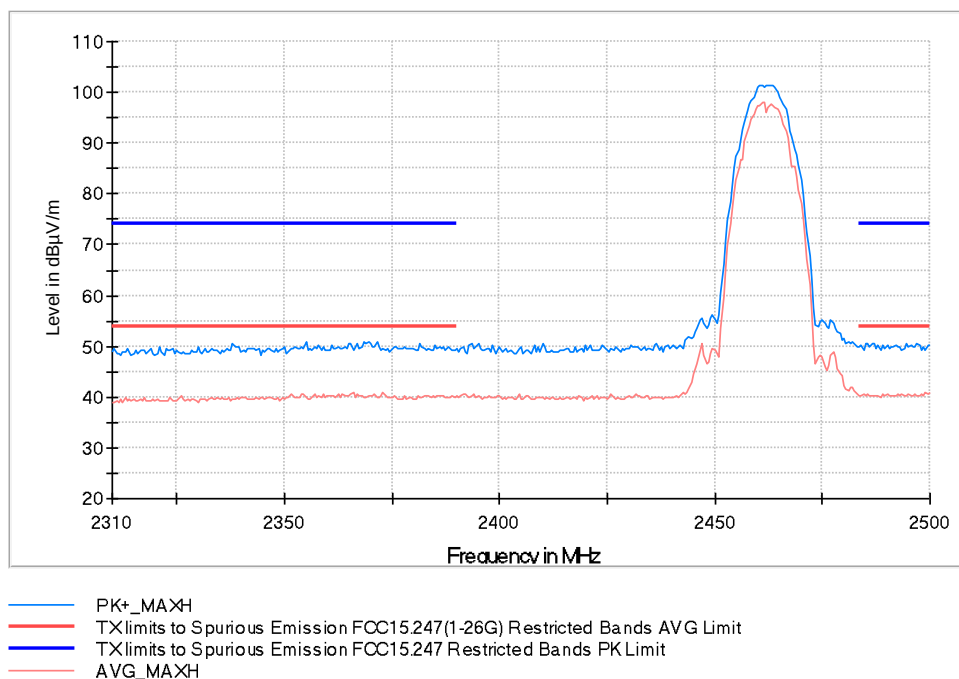
TEST RESULTS (Cont.)

2.31 GHz – 2.5 GHz

CHANNEL: Middle (2442 MHz)



CHANNEL: Highest (2462 MHz)



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 (g mode)
TEST RESULTS:	PASS

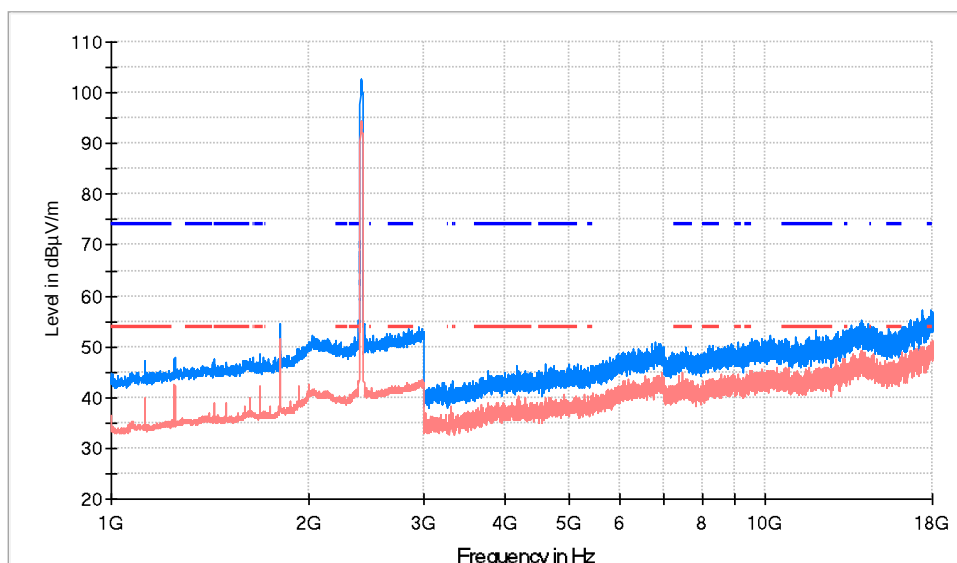
Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel and mode selected in the EUT.
The results in the following plots and tables show the maximum measured levels in the 30-1000 MHz range.

Frequency range 1 GHz – 26 GHz

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz. (see next plots).

TEST RESULTS (Cont.)	1 – 18 GHz
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— PK+_MAXH
 — TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
 — TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 — AVG_MAXH

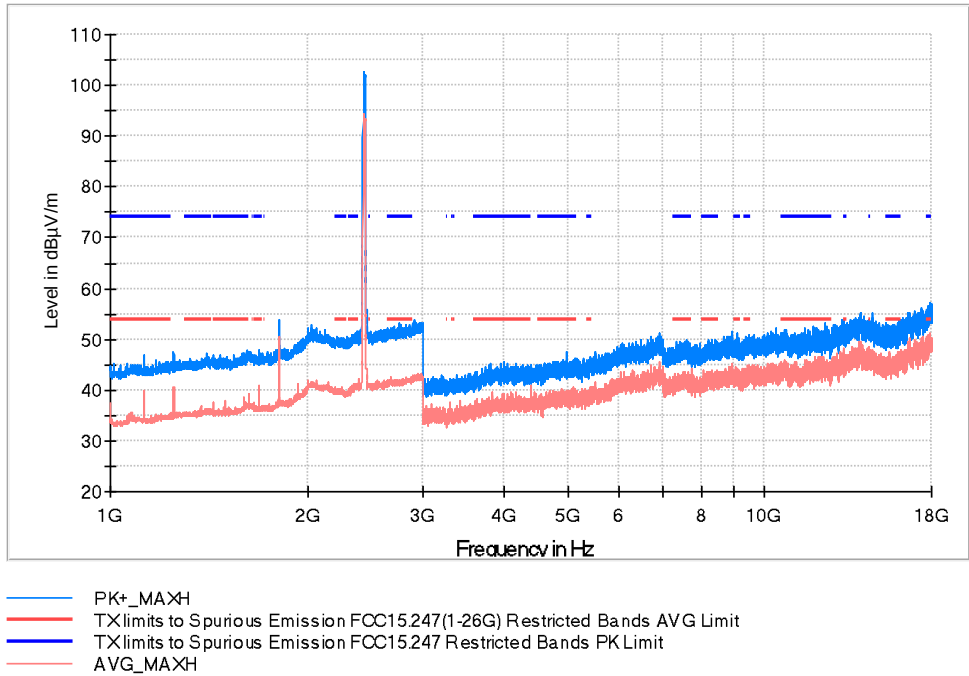
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1125.000000	46.1	40.0	V	14.0	54.0	
1687.500000	48.6	42.3	V	11.7	54.0	
2408.000000	102.7	93.8	V	---	---	Fundamental
7458.000000	45.8	40.1	V	13.9	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Middle (2442 MHz).



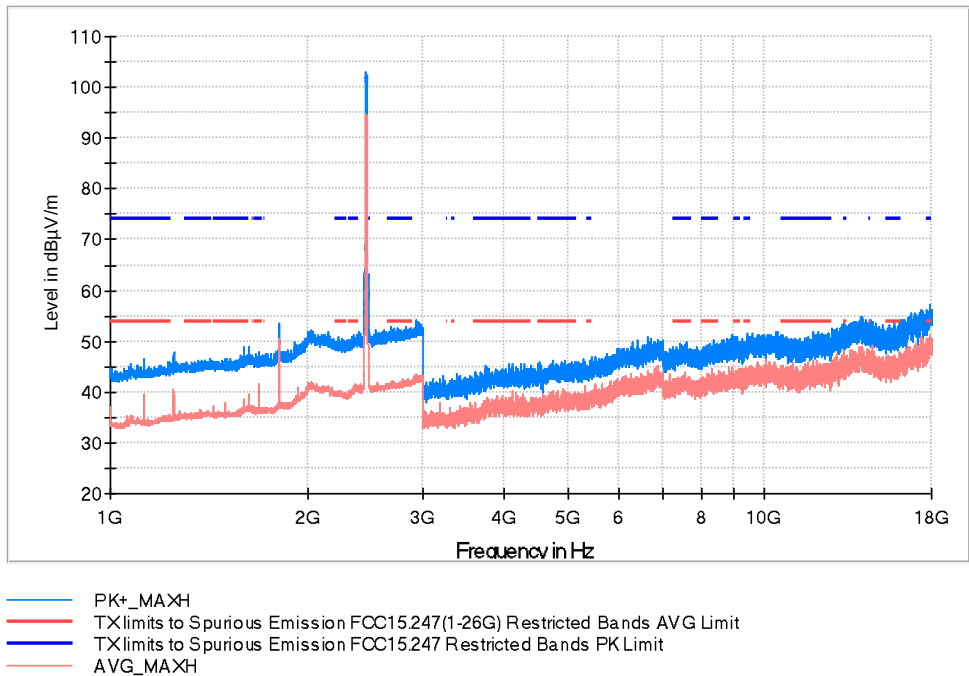
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1125.000000	47.0	39.8	V	14.2	54.0	
1687.500000	47.4	41.1	V	12.9	54.0	
2439.500000	101.6	94.3	V	---	---	Fundamental
4394.500000	44.9	40.9	V	13.1	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Highest (2462 MHz).



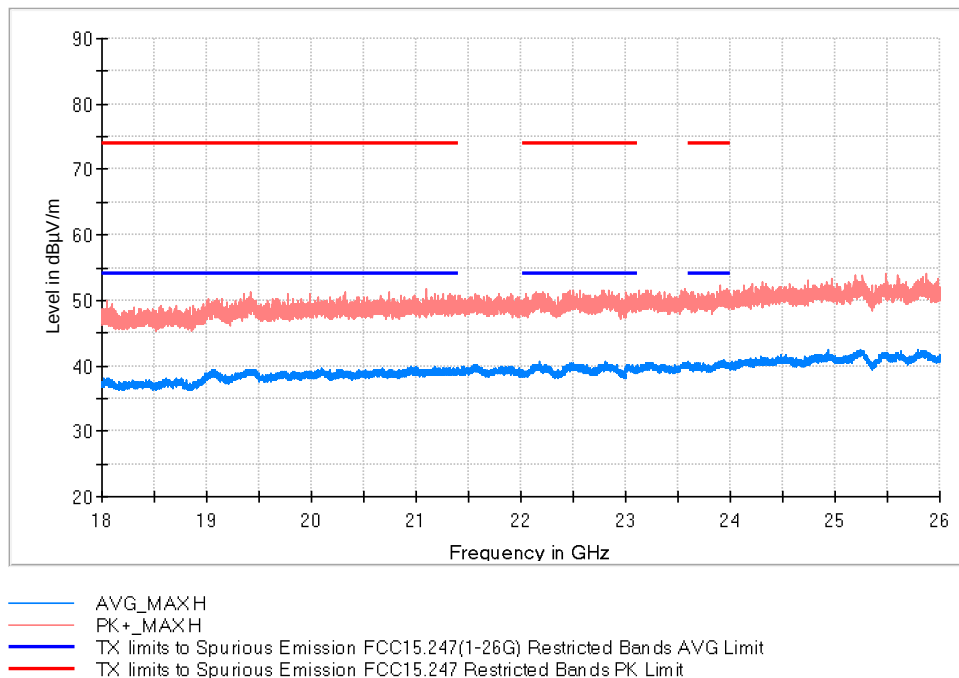
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	47.9	41.6	V	12.4	54.0	Fundamental
2459.500000	103.1	94.9	V	---	---	
4584.500000	43.6	39.6	V	14.4	54.0	
17783.000000	53.6	50.4	V	3.6	54.0	

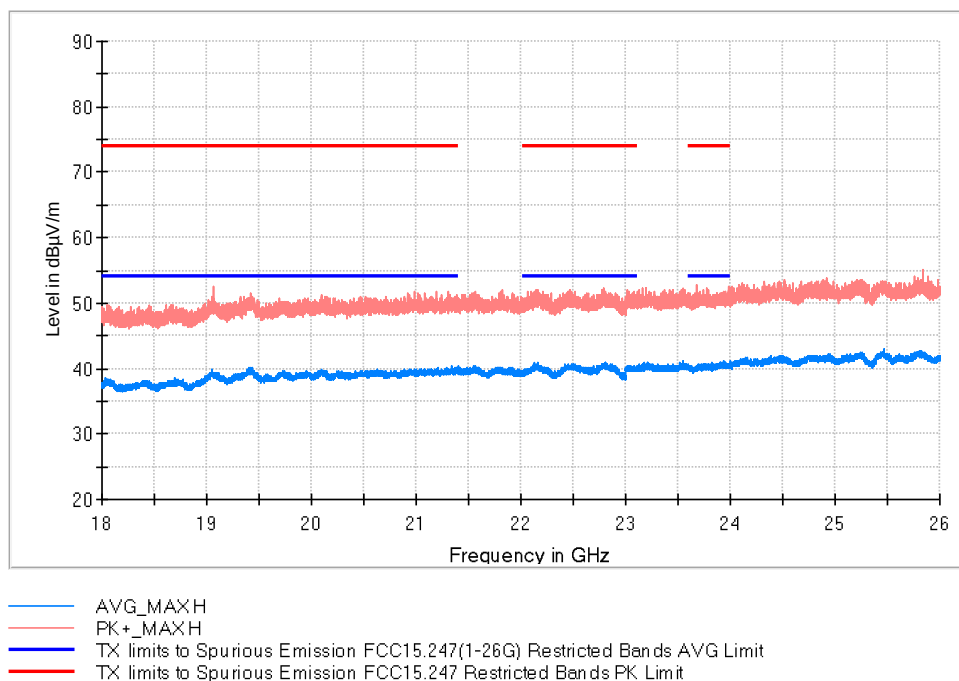
TEST RESULTS (Cont.)

18 GHz – 26 GHz

CHANNEL: Lowest (2412 MHz).



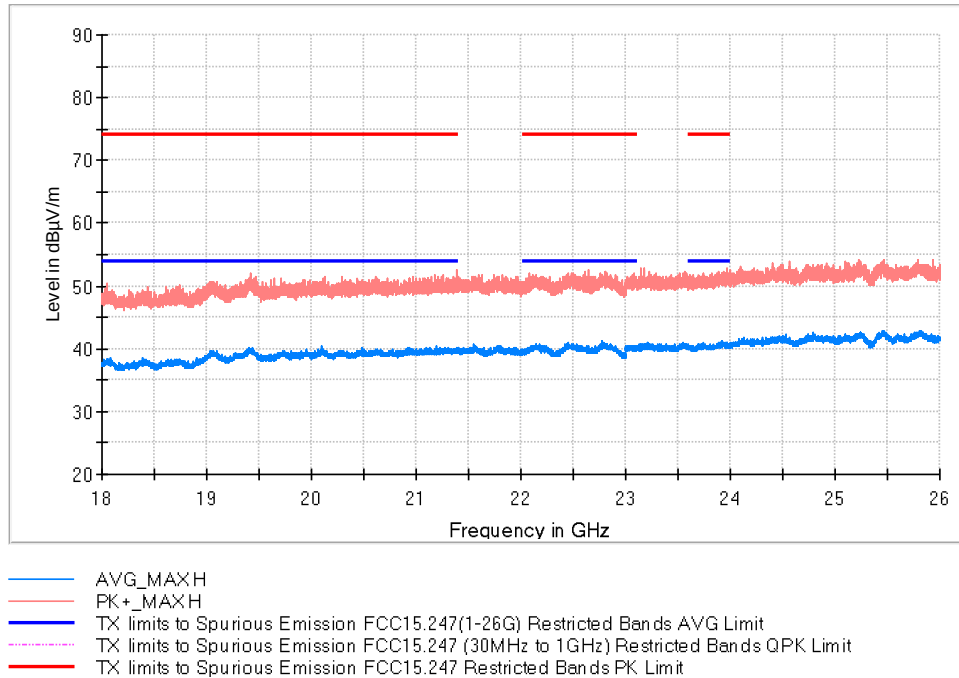
CHANNEL: Middle (2442 MHz).



TEST RESULTS (Cont.)

18 GHz – 26 GHz

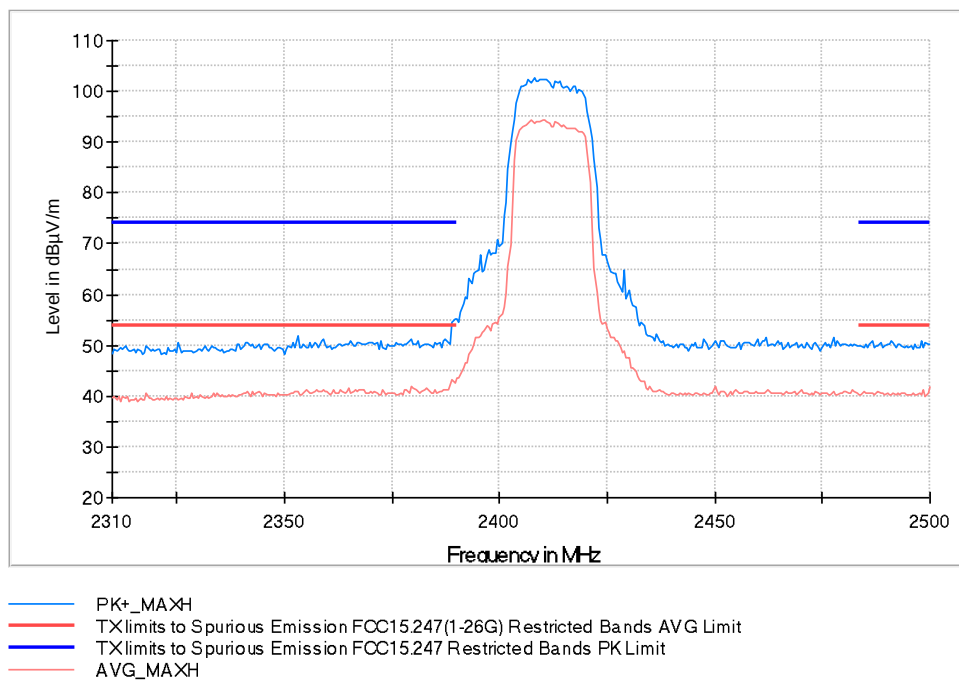
CHANNEL: Highest (2462 MHz).



RESTRICTED BANDS

2.31 GHz – 2.5 GHz

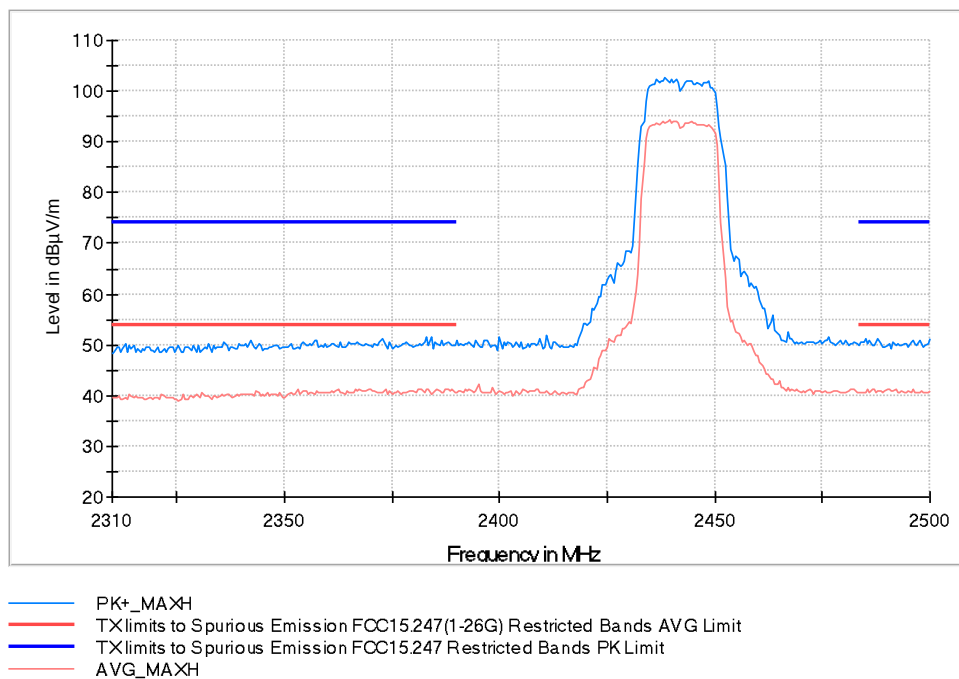
CHANNEL: Lowest (2412 MHz)



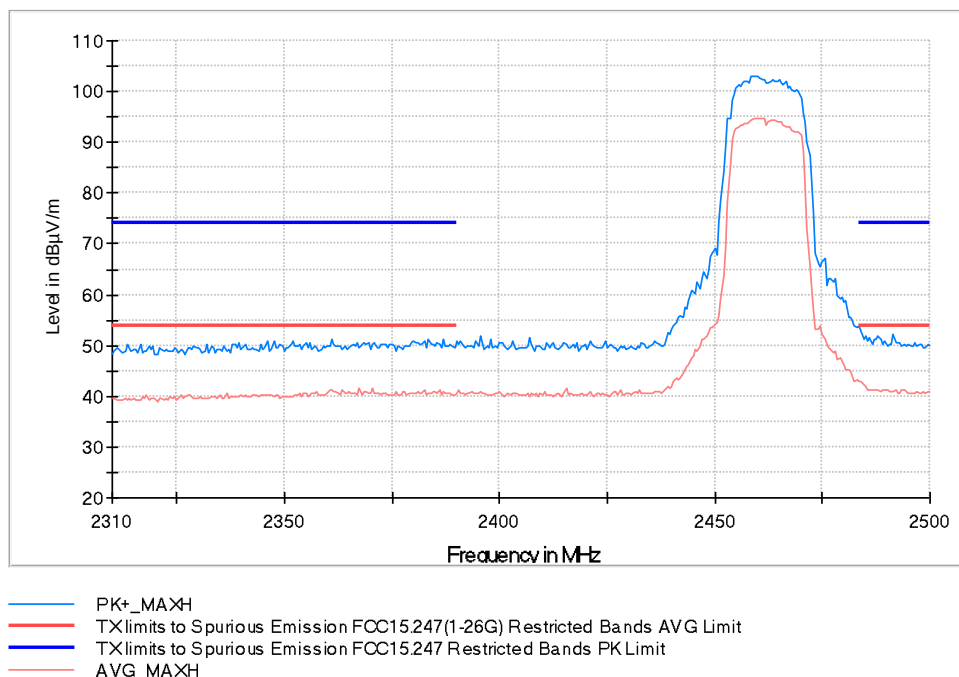
TEST RESULTS (Cont.)

2.31 GHz – 2.5 GHz

CHANNEL: Middle (2442 MHz)



CHANNEL: Highest (2462 MHz)



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#03 (n40 mode)
TEST RESULTS:	PASS

Frequency range 30 MHz – 1000 MHz

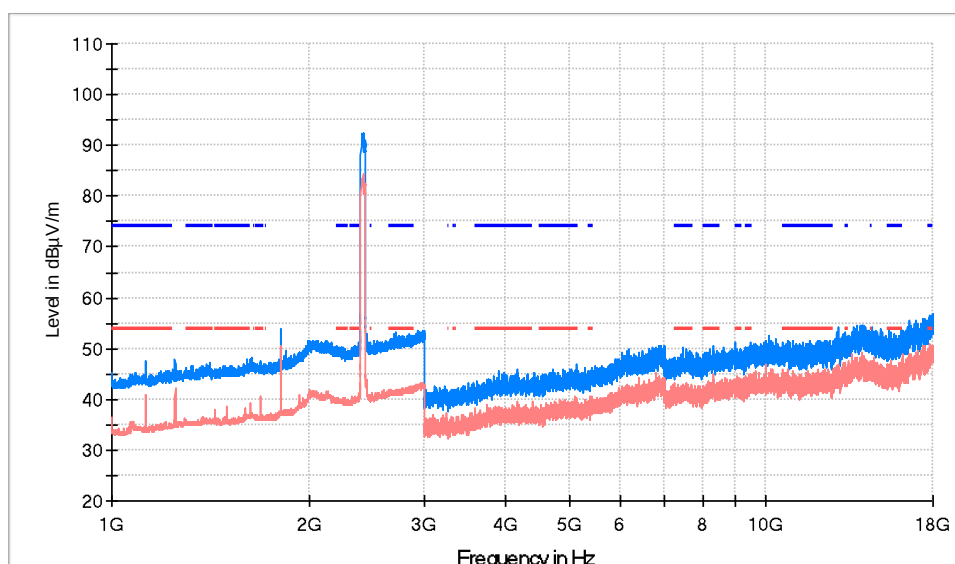
The spurious emissions below 1 GHz do not depend on the operating channel and mode selected in the EUT.
The results in the following plots and tables show the maximum measured levels in the 30-1000 MHz range.

Frequency range 1 GHz – 26 GHz

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz. (see next plots).

TEST RESULTS (Cont.)	1 – 18 GHz
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CHANNEL: Lowest (2422 MHz).



— PK+ _MAXH
 — TXlimits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit
 — TXlimits to Spurious Emission FCC15.247 Restricted Bands PK Limit
 — AVG _MAXH

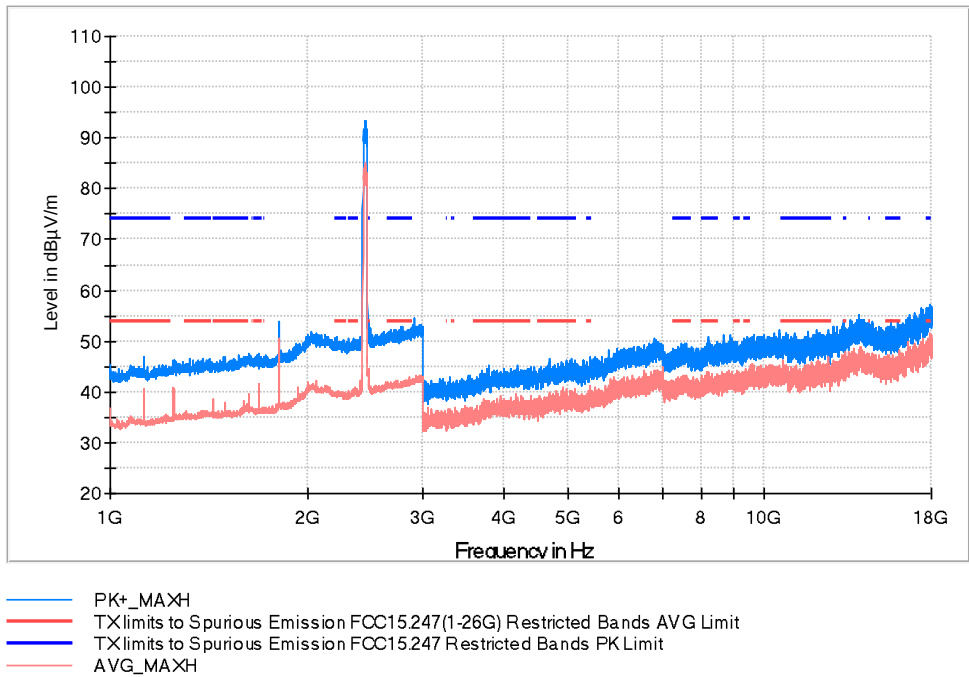
Maximizations

Frequency (MHz)	PK+ _MAXH (dBμV/m)	AVG _MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	47.6	40.4	V	13.6	54.0	
2419.500000	92.3	84.3	V	---	---	Fundamental
11563.000000	49.7	45.1	V	8.9	54.0	
17829.500000	54.1	50.8	V	3.2	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Highest (2452 MHz).



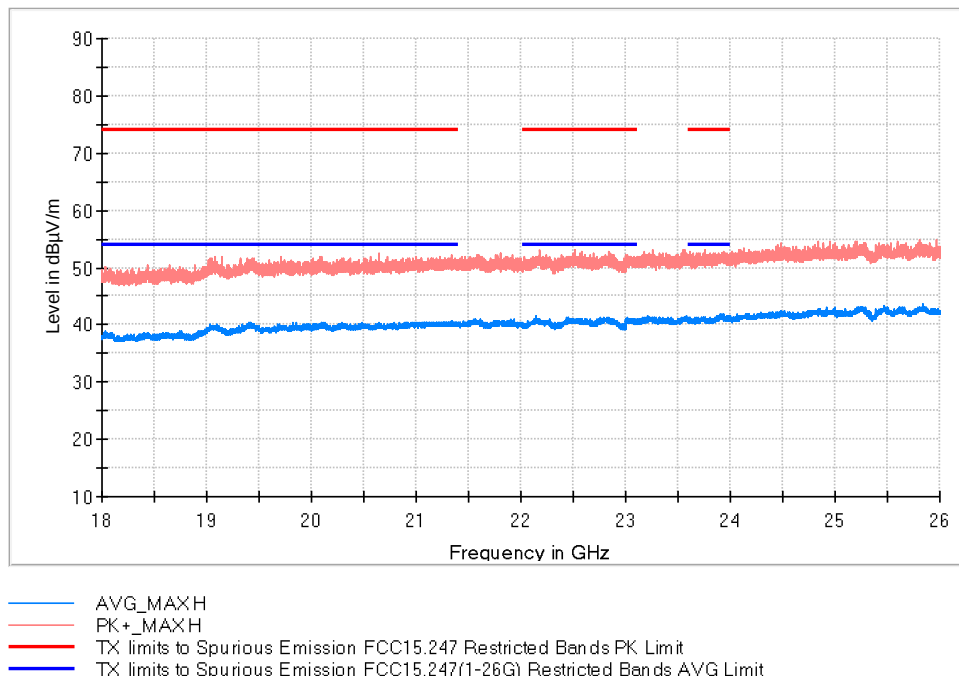
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	47.6	41.4	V	12.6	54.0	
2453.500000	92.3	84.9	V	---	---	Fundamental
12488.000000	52.3	46.9	V	7.1	54.0	
17909.500000	55.6	51.7	V	2.3	54.0	

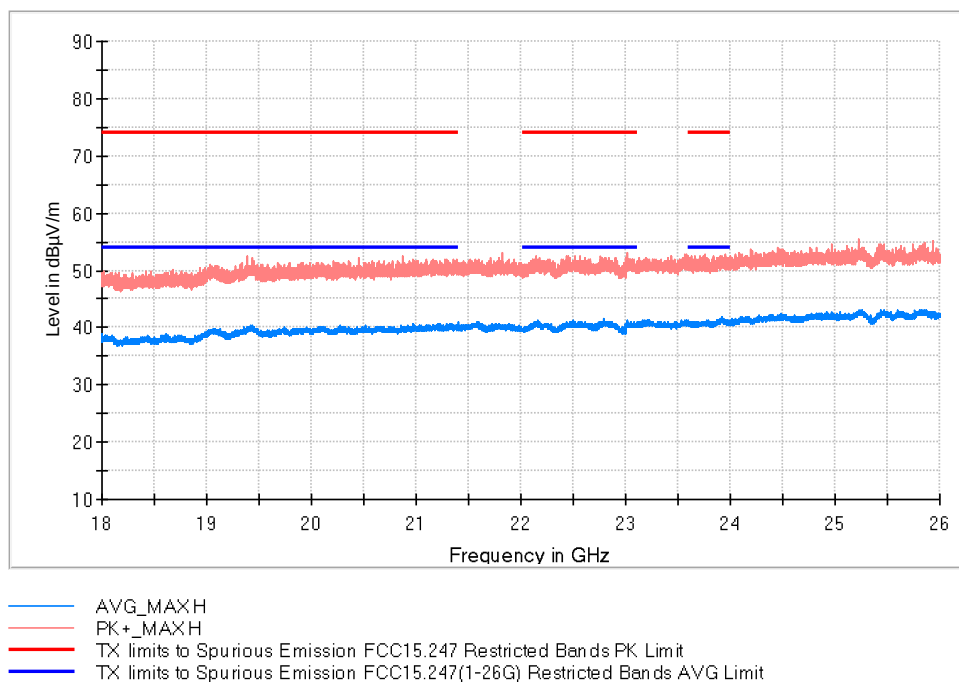
TEST RESULTS (Cont.)

18 GHz – 26 GHz

CHANNEL: Lowest (2422 MHz)



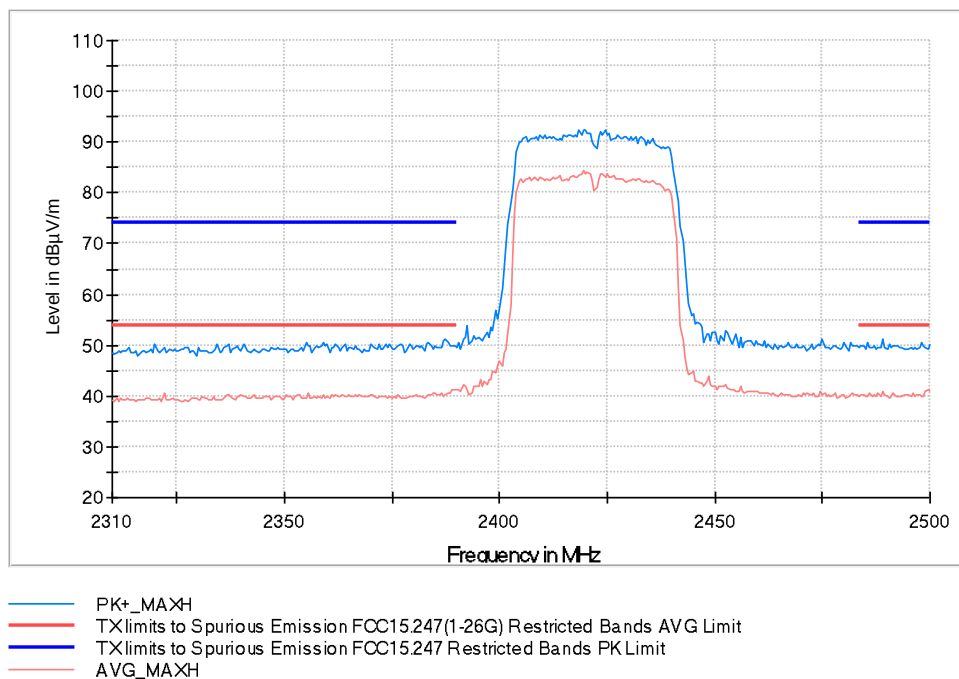
CHANNEL: Highest (2452 MHz)



TEST RESULTS (Cont.)

2.31 GHz – 2.5 GHz

CHANNEL: Lowest (2422 MHz)



CHANNEL: Highest (2452 MHz)

