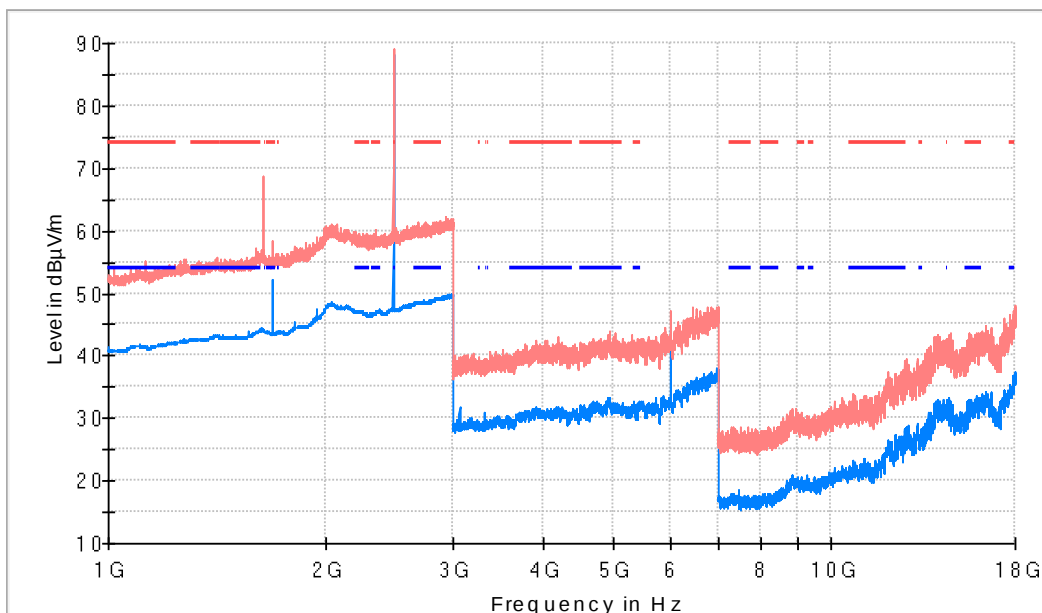


TEST RESULTS (Cont.)

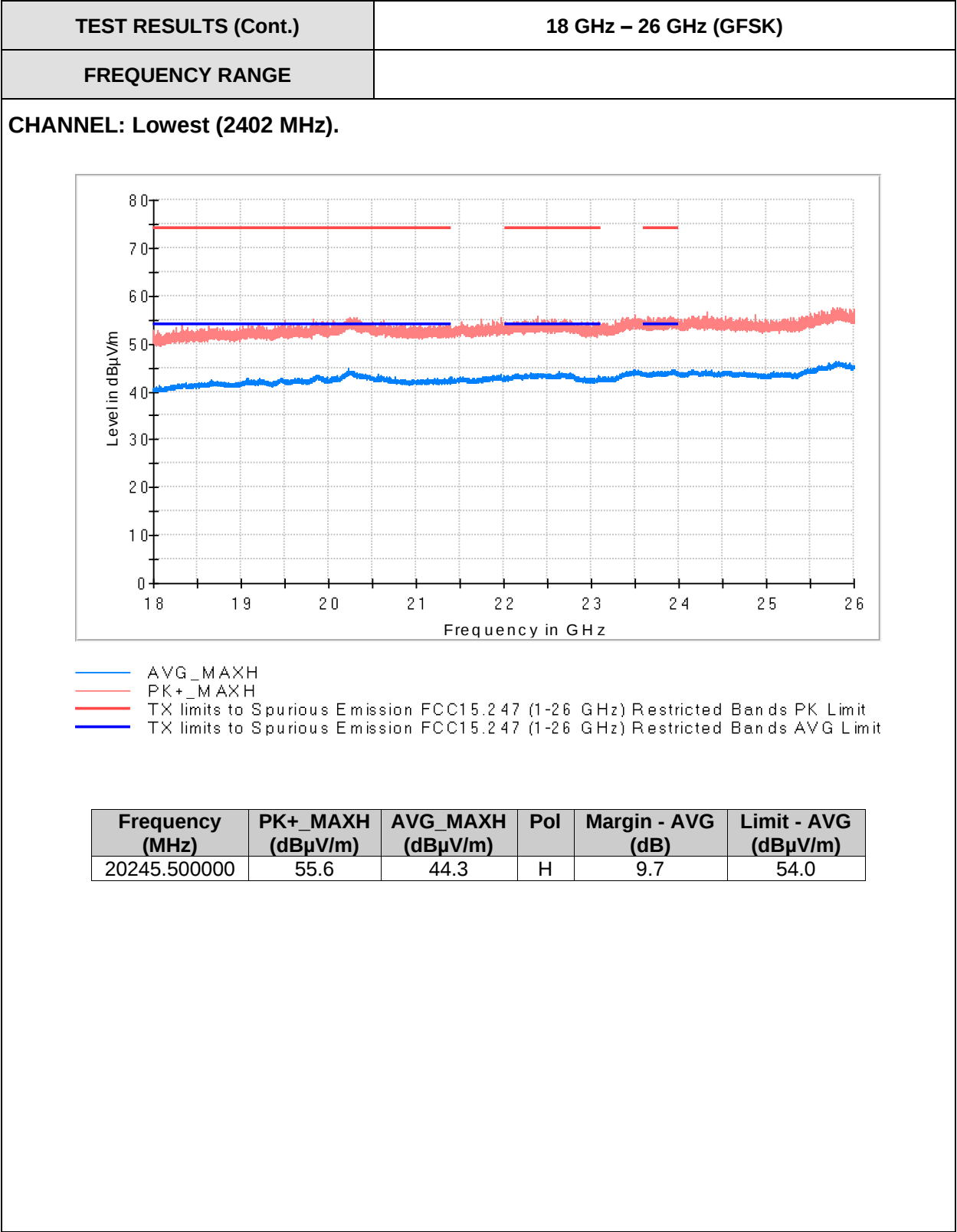
CHANNEL: Highest (2480 MHz).



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

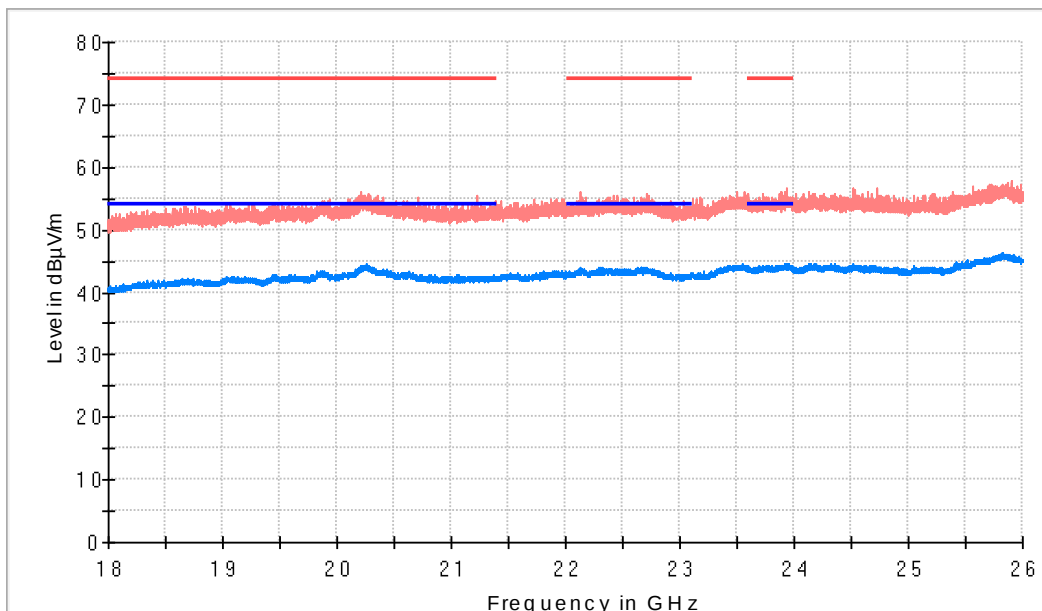
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG	Limit - AVG	Comment
1687.000000	56.8	50.6	H	3.4	54.0	
2480.500000	89.0	87.0	H	---	---	Fundamental



TEST RESULTS (Cont.)

CHANNEL: Middle (2441 MHz).

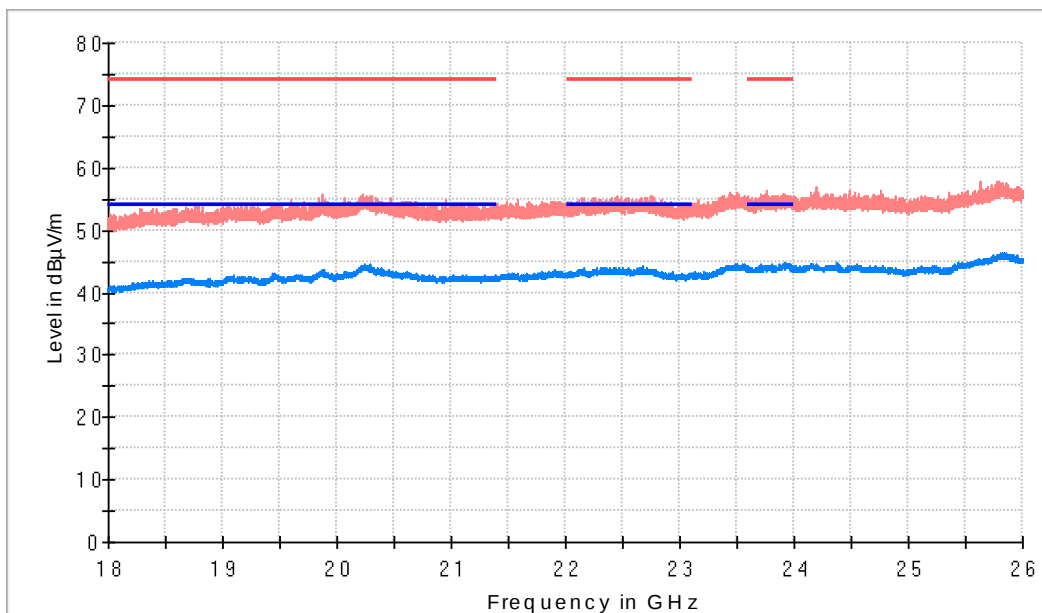


— AVG_MAXH
— PK+_MAXH
— TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
— TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20209.000000	53.8	44.1	H	9.9	54.0

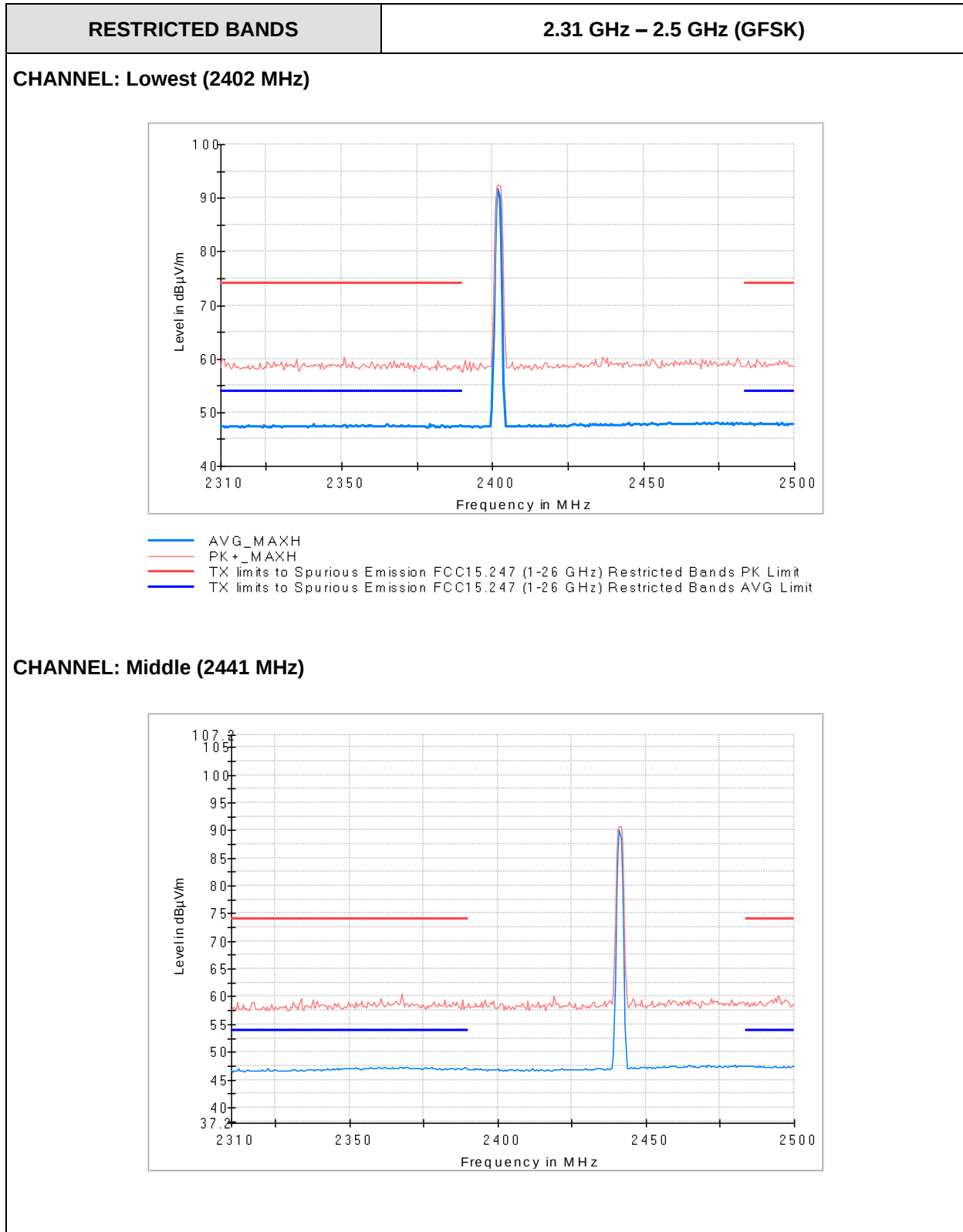
TEST RESULTS (Cont.)

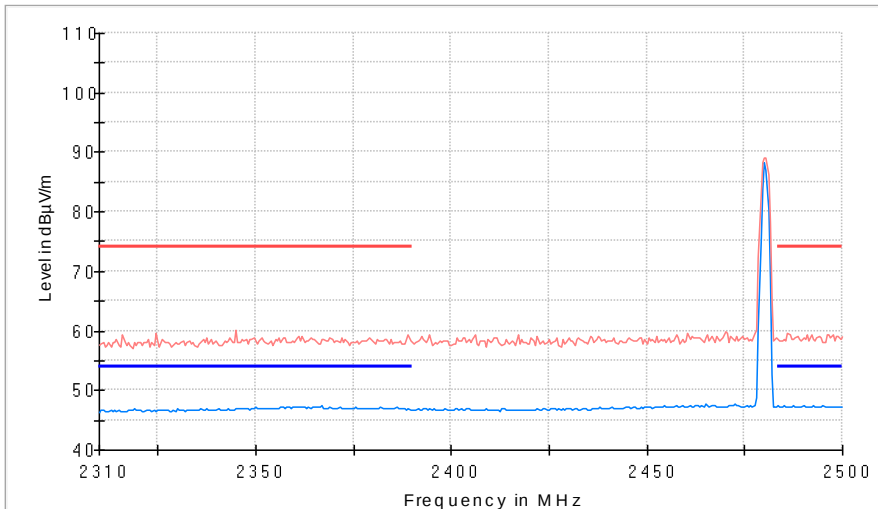
CHANNEL: Highest (2480 MHz).



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

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
23913.000000	53.2	43.6	H	10.4	54.0

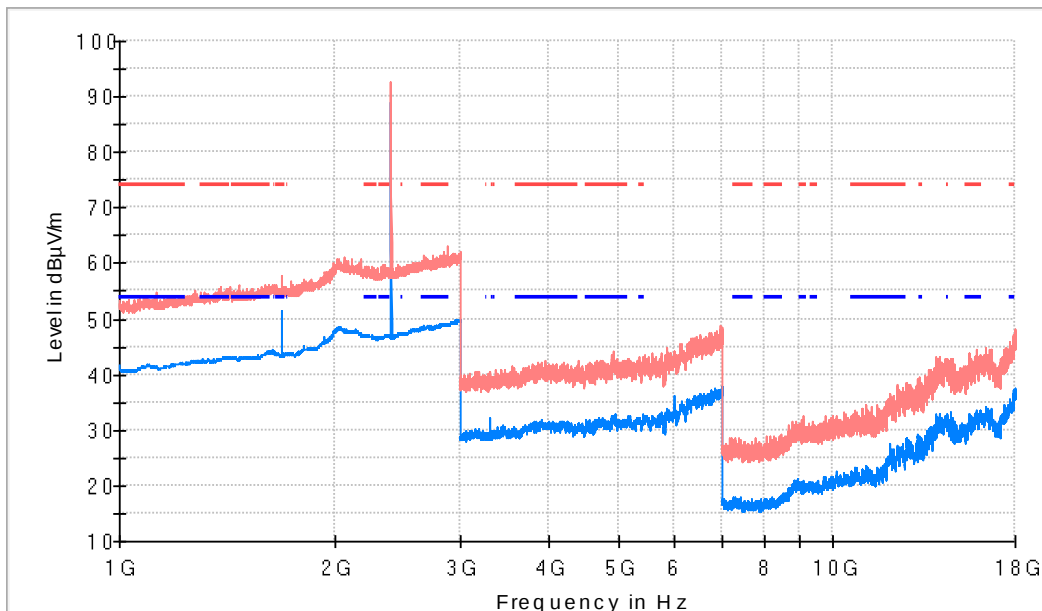


TEST RESULTS (Cont.)	
CHANNEL: Highest (2480 MHz)	
 — AVG_MAXH — PK+_MAXH — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit	
TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 ($\pi/4$ -DQPSK)
TEST RESULTS:	PASS
Frequency range 30 MHz – 1000 MHz The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT. Frequency range 1 GHz – 26 GHz The results in the following plots and tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz.	

TEST RESULTS (Cont.)

1 GHz – 18 GHz ($\pi/4$ -DQPSK)

CHANNEL: Lowest (2402 MHz).



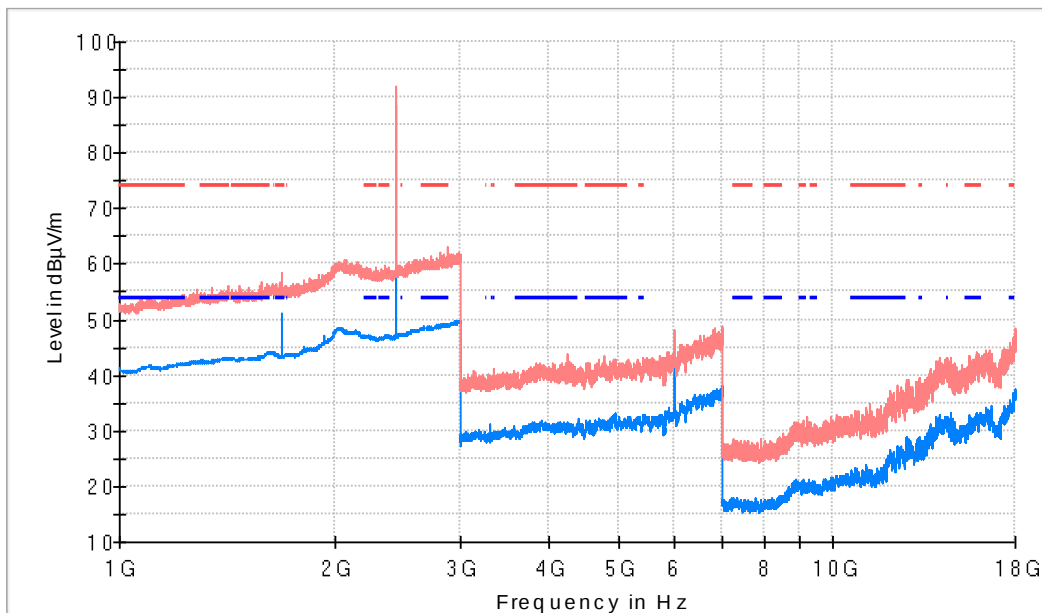
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

.Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	57.8	51.6	H	2.4	54.0	
2402.000000	92.6	89.2	V	---	---	Fundamental

TEST RESULTS (Cont.)

CHANNEL: Middle (2441 MHz).



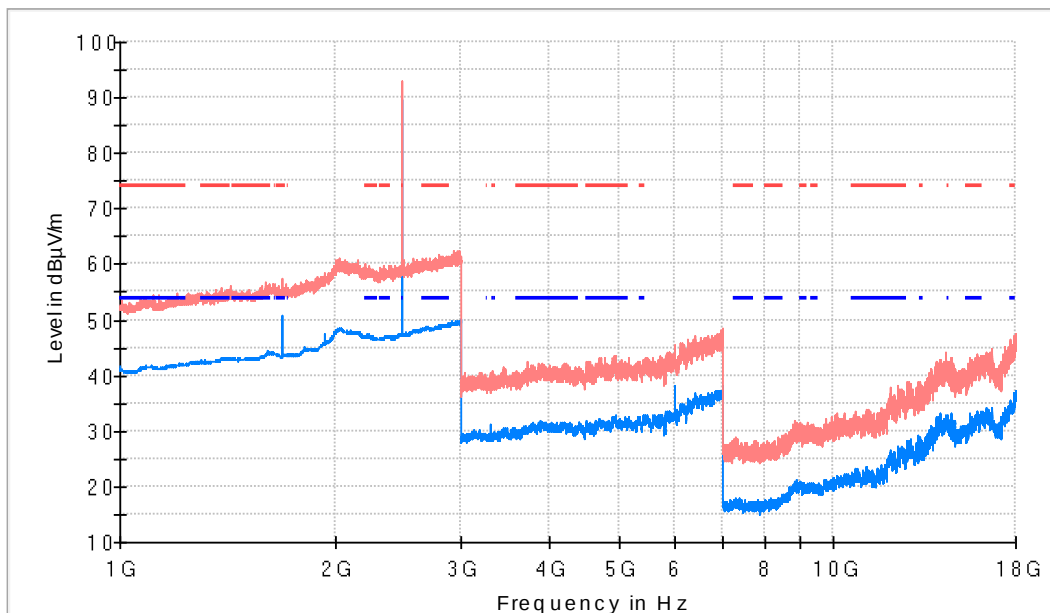
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1687.500000	58.4	51.1	H	2.9	54.0	
2441.000000	92.0	88.7	H	---	---	Fundamental

TEST RESULTS (Cont.)

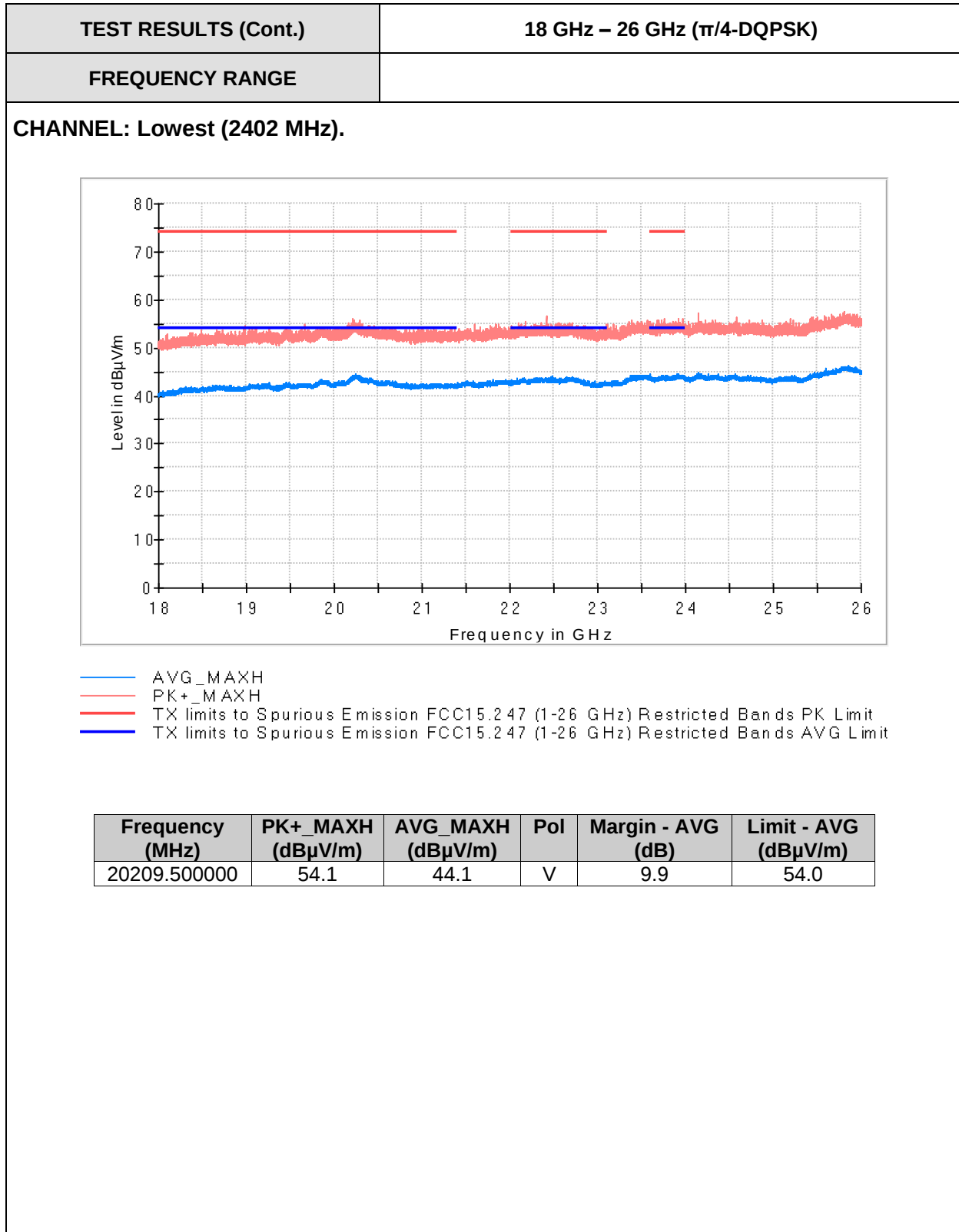
CHANNEL: Highest (2480 MHz)



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

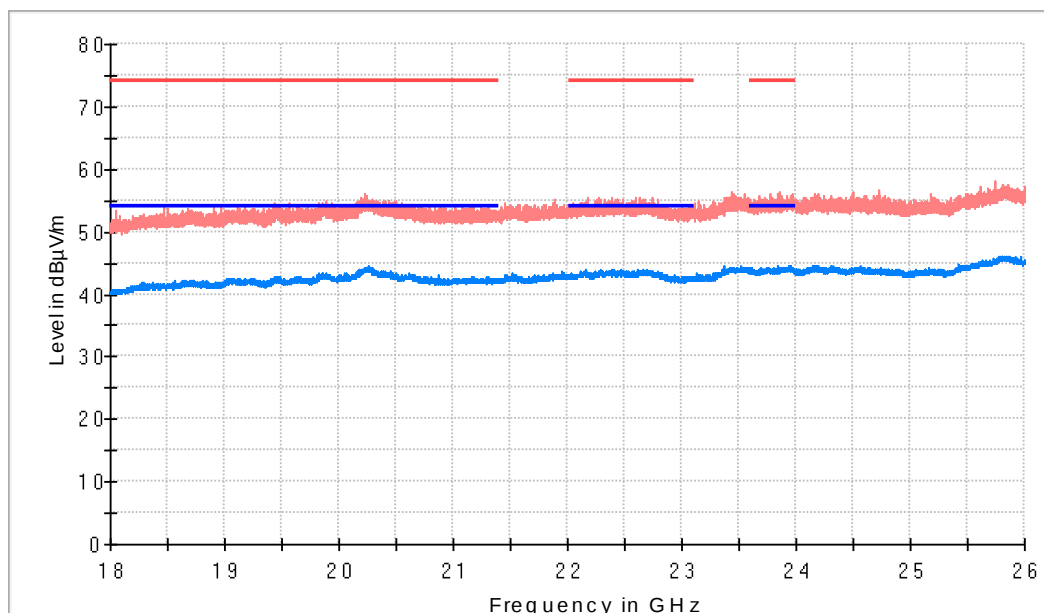
Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.000000	56.7	49.4	H	4.6	54.0	
2480.000000	93.0	89.6	H	---	---	Fundamental



TEST RESULTS (Cont.)

CHANNEL: Middle (2441 MHz).

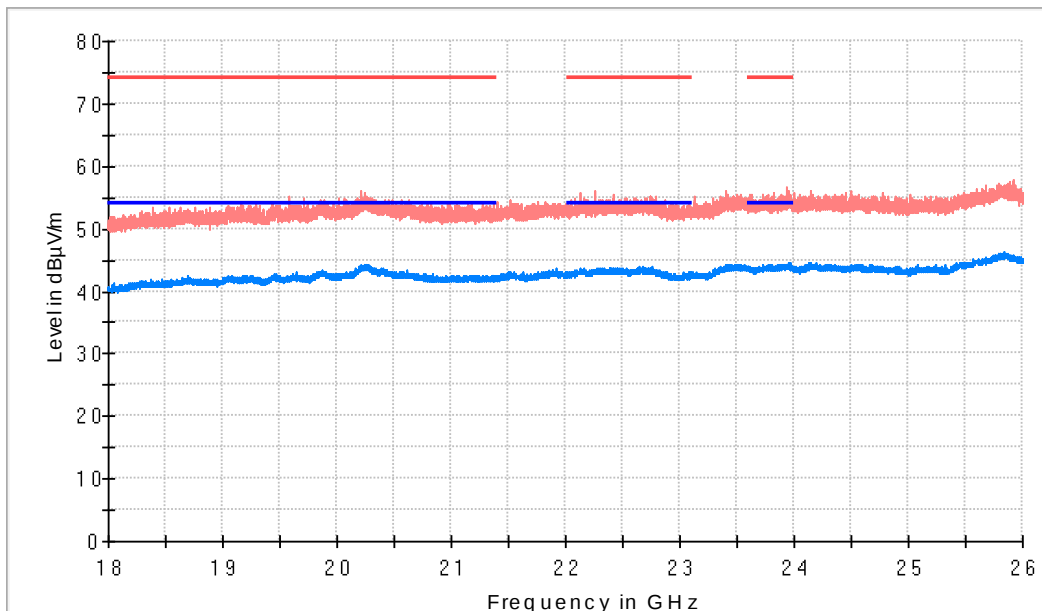


— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20226.500000	54.7	44.2	H	9.8	54.0

TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz).



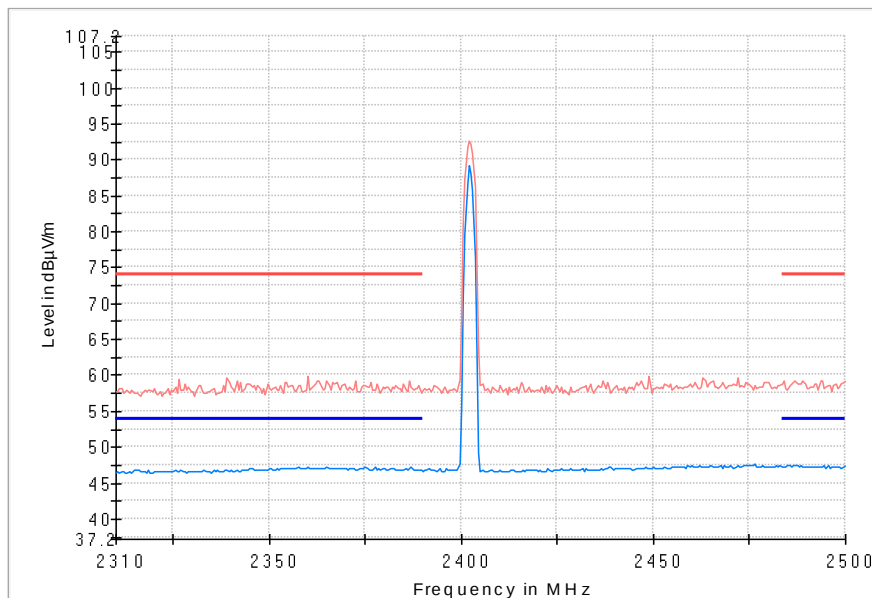
— AVG_MAXH
— PK+_MAXH
— TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
— TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20237.000000	53.8	44.0	V	10.0	54.0

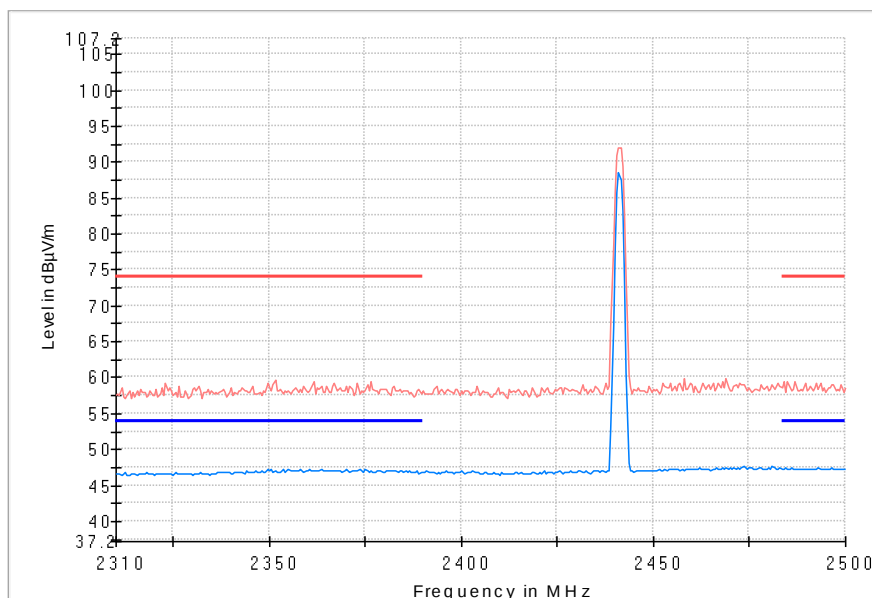
TEST RESULTS (Cont.):

RESTRICTED BAND 2.31 GHz – 2.5 GHz ($\pi/4$ -DQPSK)

CHANNEL: Lowest (2402 MHz)

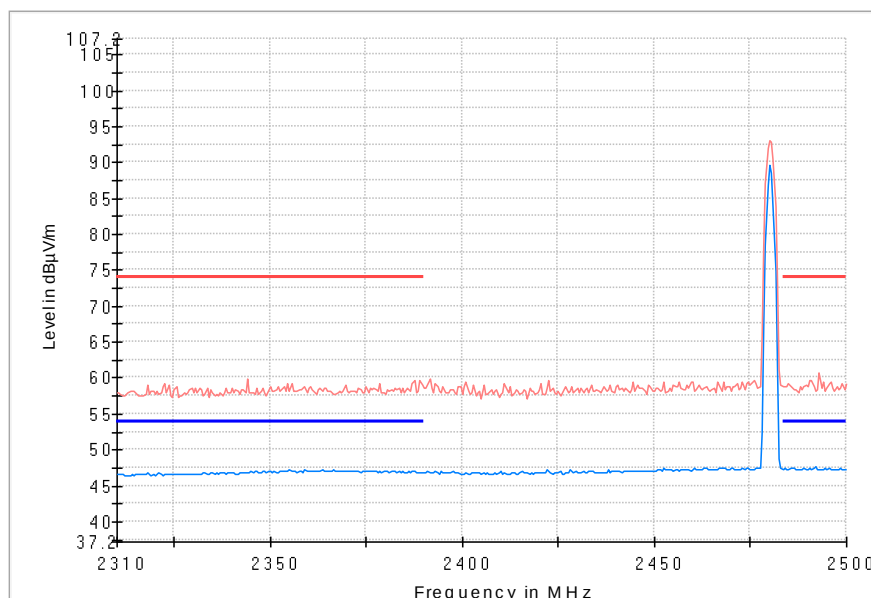


CHANNEL: Middle (2440 MHz)



TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz)



TESTED SAMPLES:

S/02

TESTED CONDITIONS MODES:

TC#03 (8DPSK)

TEST RESULTS:

PASS

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

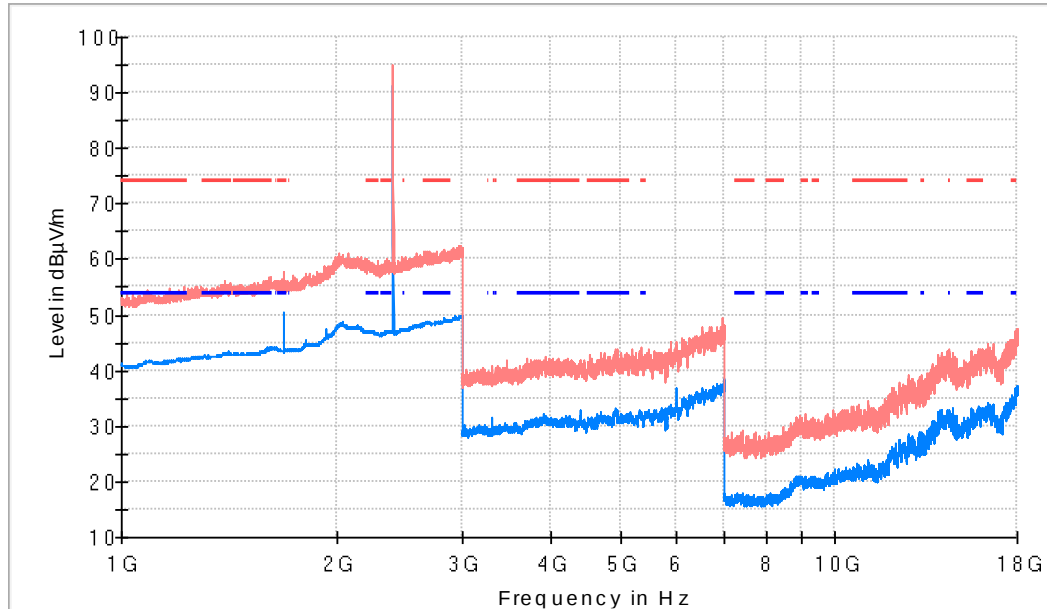
Frequency range 1 GHz – 26 GHz

The results in the following plots and tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.5 GHz.

TEST RESULTS (Cont.)

1 GHz – 18 GHz (8DPSK)

CHANNEL: Lowest (2402 MHz)



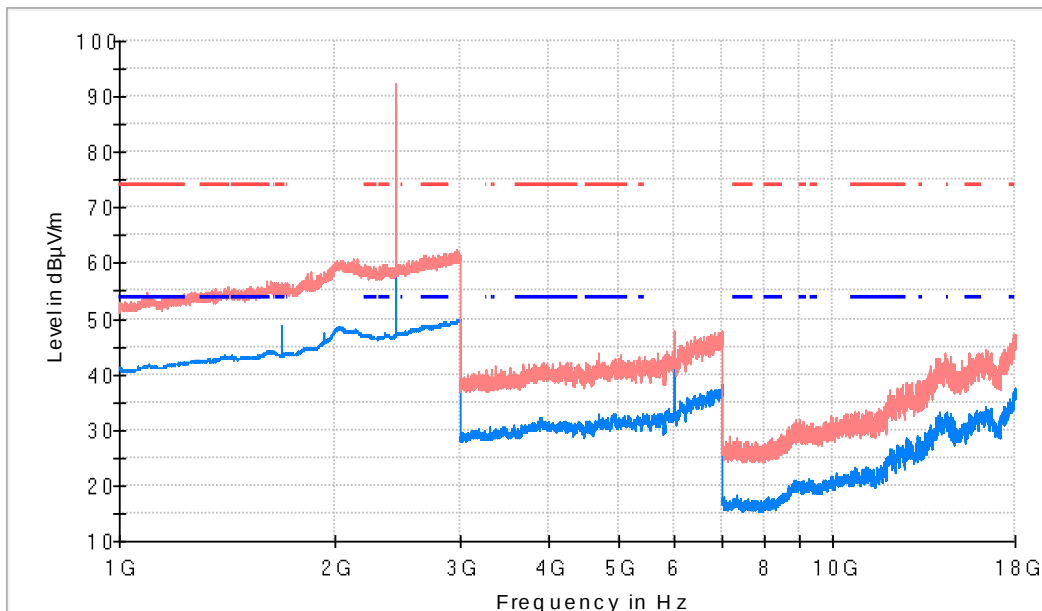
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1687.500000	57.5	50.5	H	3.5	54.0	
2402.000000	95.0	91.4	H	---	---	Fundamental

TEST RESULTS (Cont.)

CHANNEL: Middle (2441 MHz)



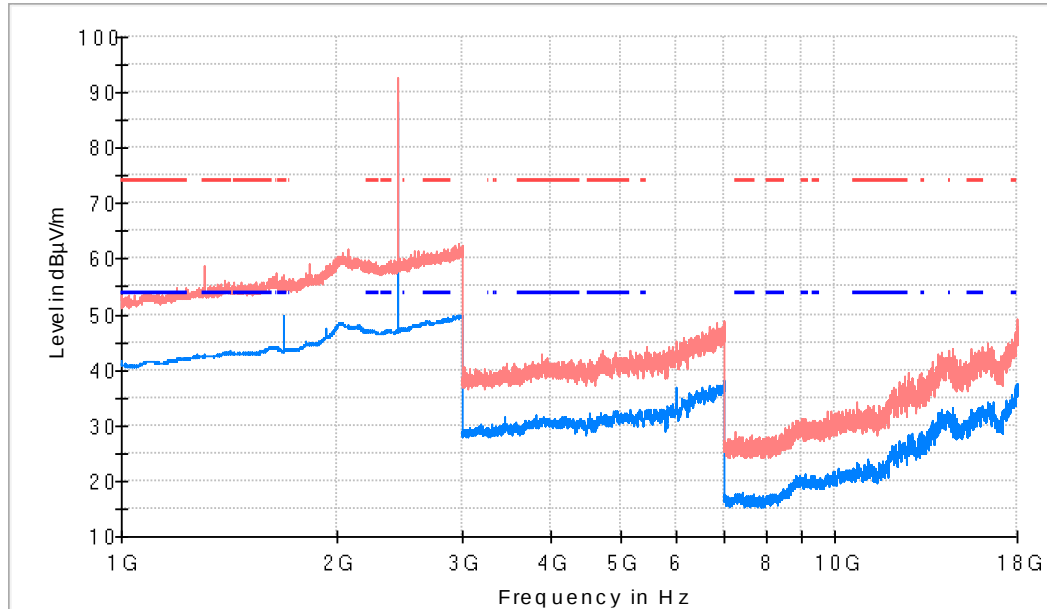
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Maximizations

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1687.500000	56.6	48.9	V	5.1	54.0	
2441.000000	92.4	88.8	V	---	---	Fundamental

TEST RESULTS (Cont.)

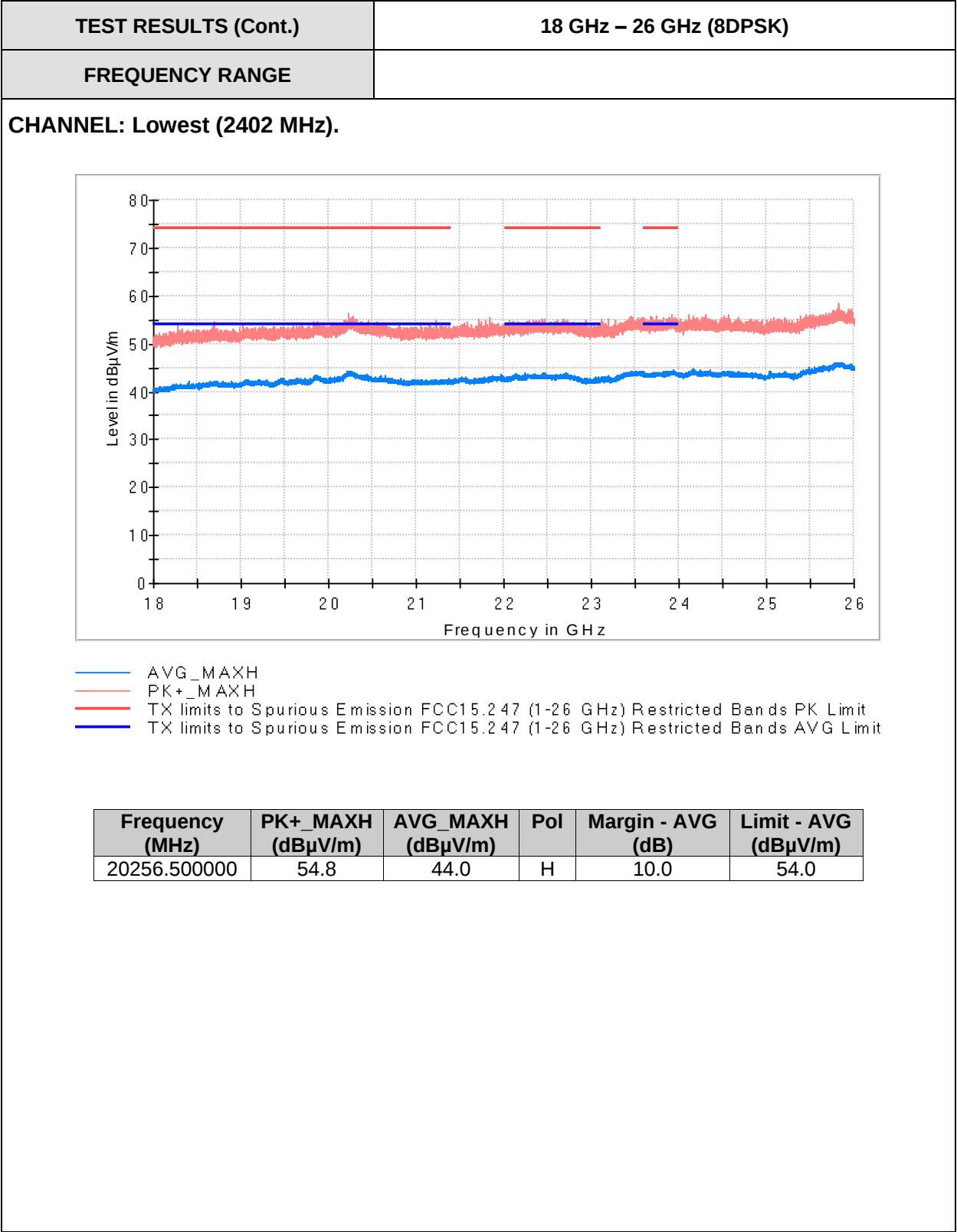
CHANNEL: Highest (2480 MHz)



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

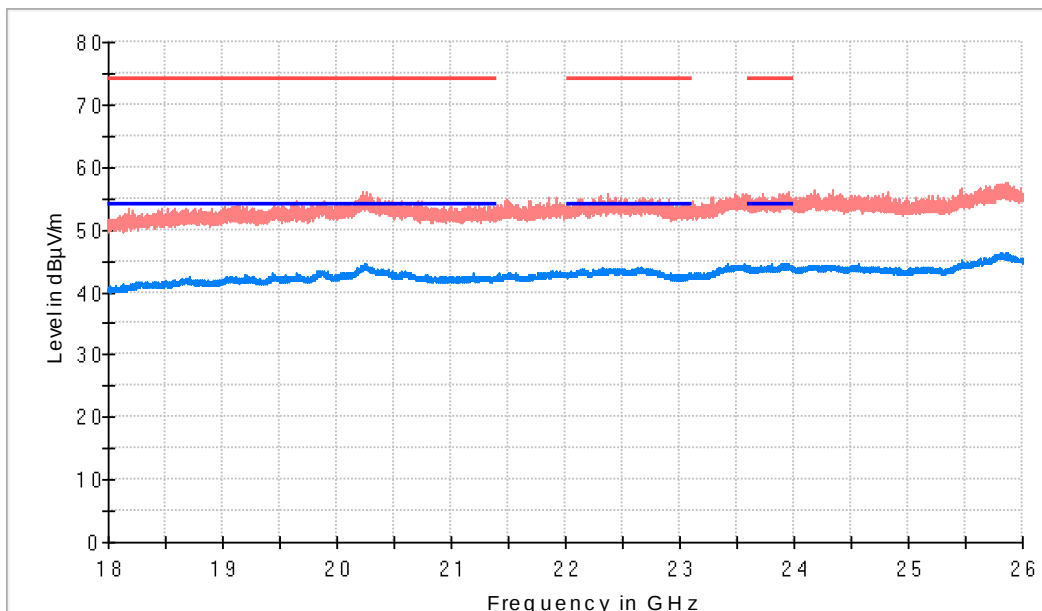
Maximizations

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1687.500000	57.3	49.9	H	4.1	54.0	
2441.000000	92.7	88.1	H	---	---	Fundamental



TEST RESULTS (Cont.)

CHANNEL: Middle (2441 MHz).

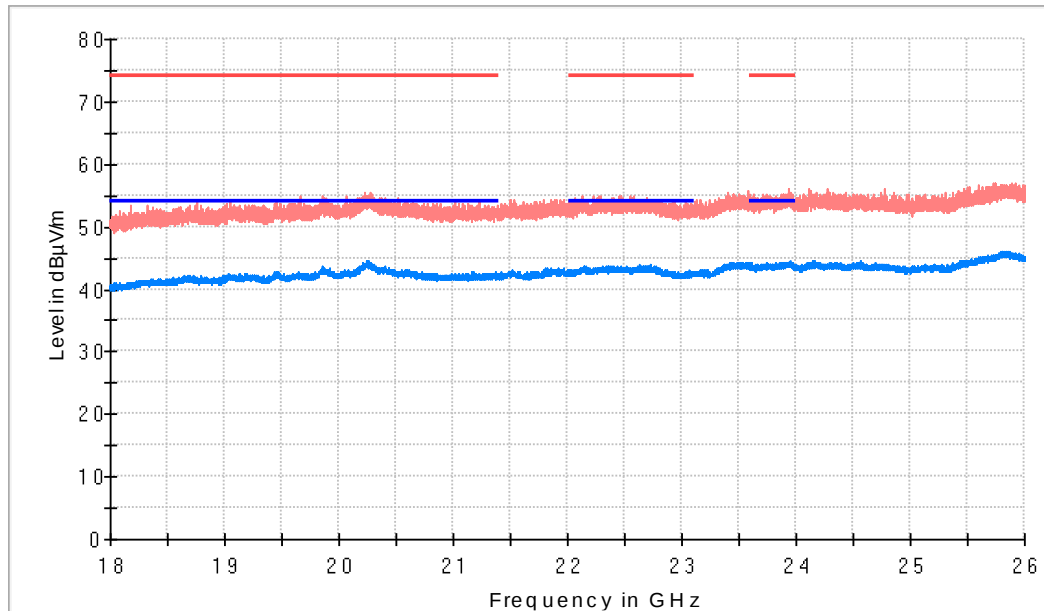


— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20247.500000	54.1	44.4	V	9.6	54.0

TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz).



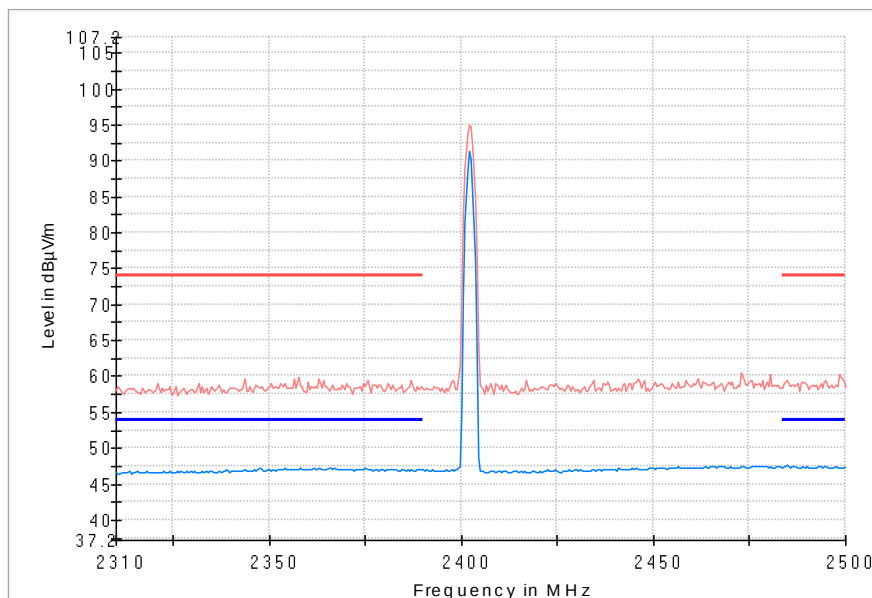
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC15.247 (1-26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20230.500000	53.7	44.0	V	10.0	54.0

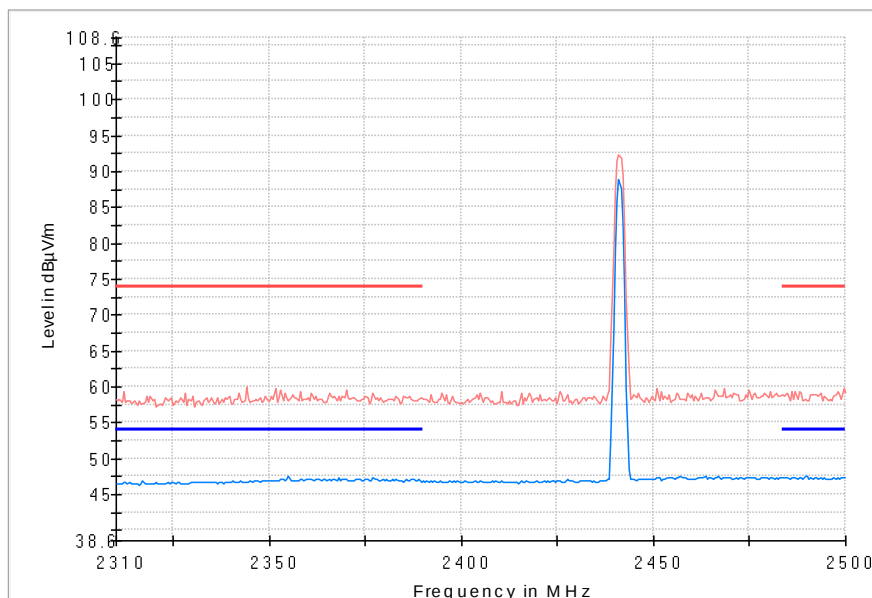
RESTRICTED BANDS

2.31 GHz – 2.5 GHz (8DPSK)

CHANNEL: Lowest (2402 MHz)

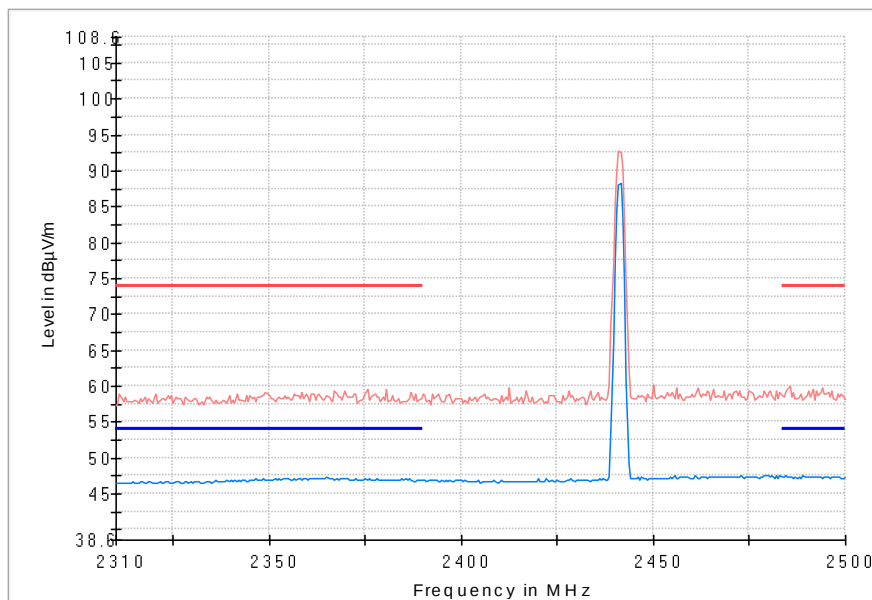


CHANNEL: Middle (2440 MHz)



TEST RESULTS (Cont.)

CHANNEL: Highest (2480 MHz)



Appendix C: Test results (Wi-Fi 2.4GHz)

Appendix C Content

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TEST C.6: EMISSION LIMITATIONS RADIATED (TRANSMITTER) 396

PRODUCT INFORMATION

The following information is provided by the supplier, in accordance with clause 5.4.1:

Information	Description
Modulation	Other forms of modulation
Maximum RF Output Power	Adaptive Equipment without the possibility to switch to a non- adaptive mode.
Operation mode	
- Operating Frequency Range	2400 – 2483.5 MHz
- Nominal Channel Bandwidth	20 MHz 40 MHz
Extreme operating conditions	
- Temperature range	-40 °C to +70 °C
Antenna type	
Antenna gain	-2.5 dBi
Nominal Voltage	
- Supply Voltage	12 Vdc
- Type of power source	DC voltage
Equipment type	Wi-Fi 2.4 GHz b/g/n20/n40/ax20/ax40
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (b mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests (Radio B SISO, Radio A SISO, Radio B & Radio A MIMO):</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC#02 ⁽¹⁾ (g mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests (Radio B SISO, Radio A SISO, Radio B & Radio A MIMO):</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz

TEST CONDITIONS	DESCRIPTION
TC#03 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz
TC#04 ⁽¹⁾ (ax mode non-beam forming)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz

	<u>Channel Bandwidth: 40 MHz</u> <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz
TC#05⁽¹⁾ (ax mode Beam forming)	<u>Power supply (V):</u> $V_{\text{nominal}} = 12 \text{ Vdc}$ <u>Channel Bandwidth: 20 MHz</u> <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz <u>Channel Bandwidth: 40 MHz</u> <u>Test Frequencies for Conducted/Radiated tests (Radio A SISO, Radio B SISO , Radio A + B MIMO):</u> Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz

Note (1): For spurious emissions for OFDM modes 802.11g, 802.11n20, 802.11n40, 802.11ax20 and 802.11ax40 a preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in DSSS modulation (802.11b) and OFDM modulation (802.11g). The data rates of 11Mb/s for 802.11b, 54Mb/s for 802.11g, MCS7 for 802.11n and MCS 8 for 802.11 ax were selected based on preliminary testing that identified those rates corresponding to the worst cases.

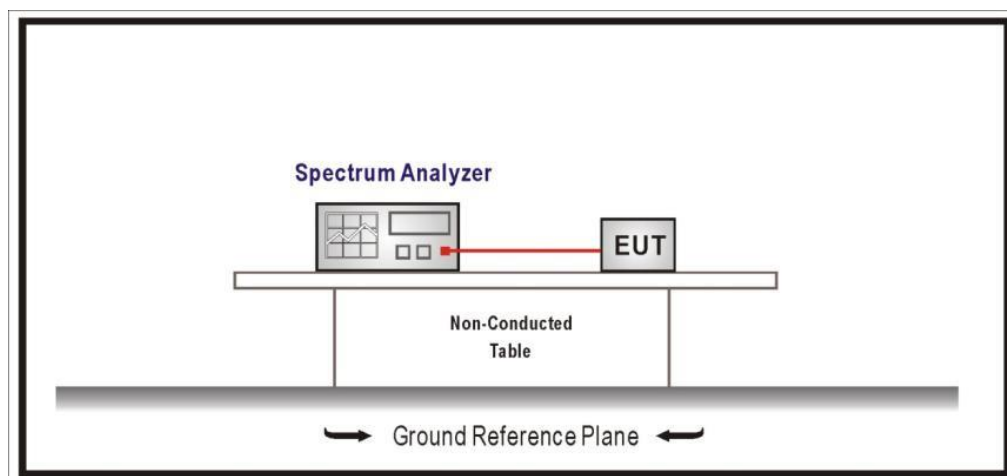
TEST C.1: 99% OCCUPIED BANDWIDTH AND 6DB BANDWIDTH

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	§2.1049, Part 15 Subpart C §15.247(a)(2) and RSS-247 5.2(a)

LIMITS

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 KHz.

TEST SETUP



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

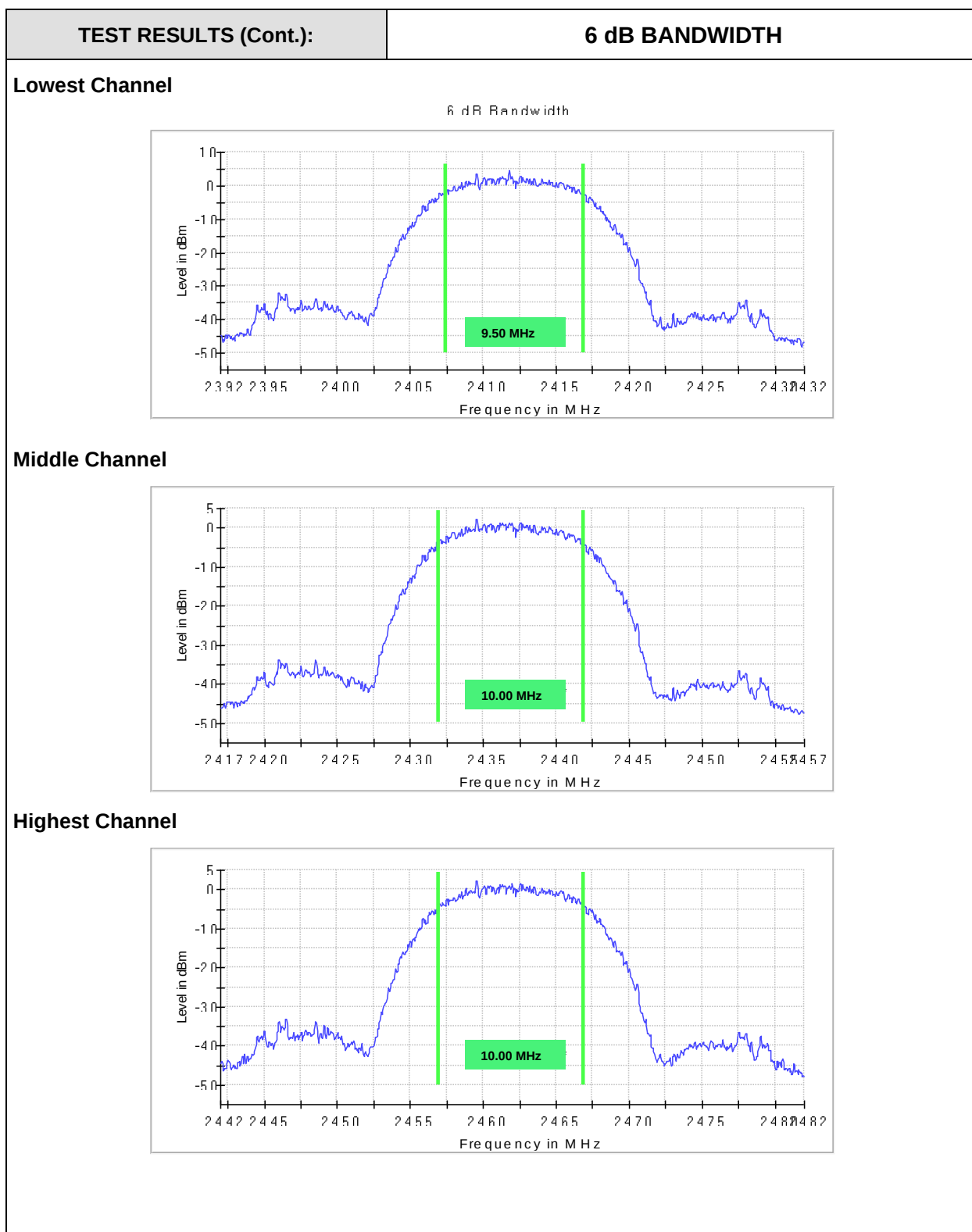
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	9.50	10.00	10.00
Occupied bandwidth (MHz)	13.20	13.30	13.20

6dB Measurement

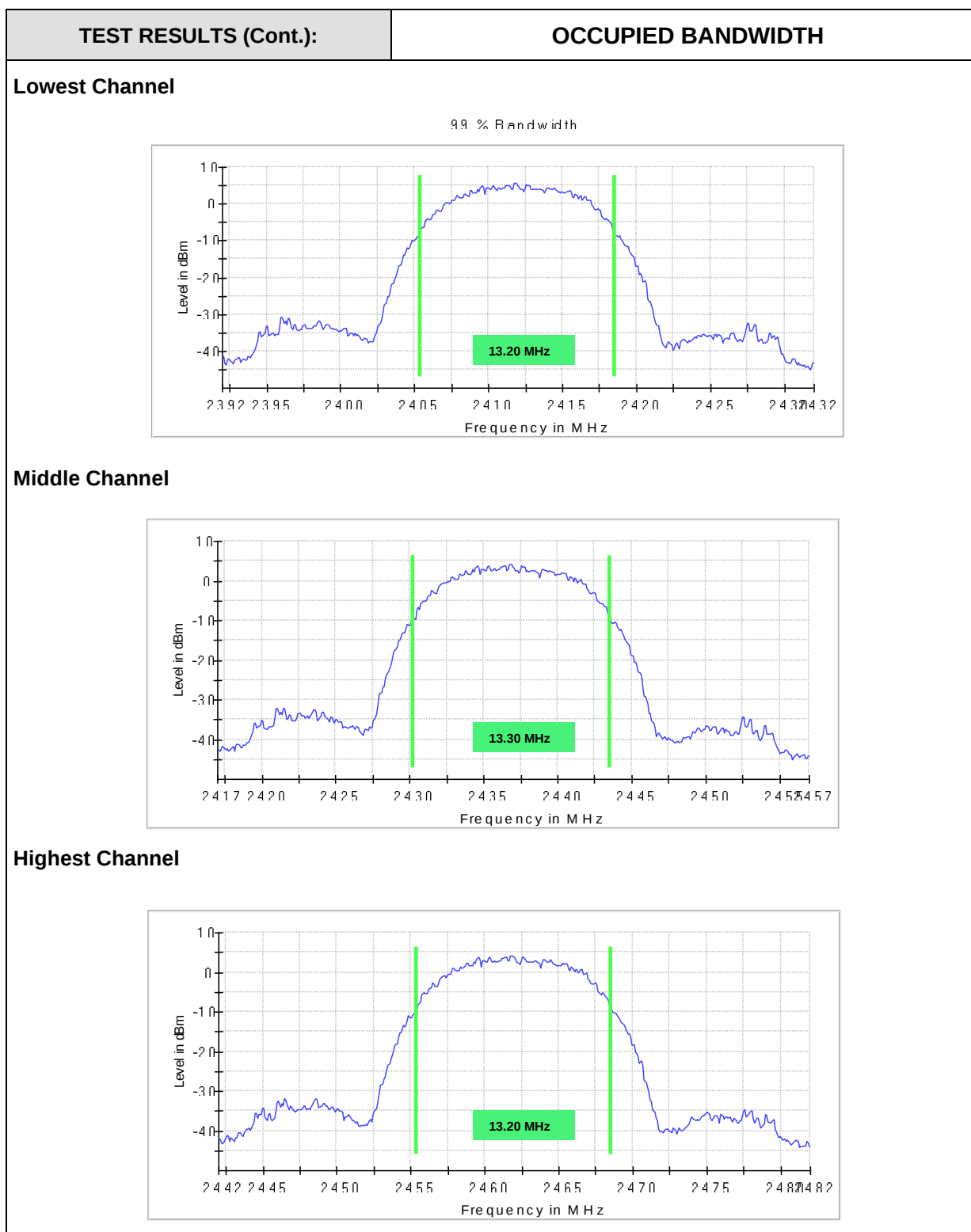
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	15 / max. 150	20 / max. 150	29 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.33 dB	0.27 dB	0.04 dB



TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 us	28.447 us	28.447 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	15 / max. 150	16 / max. 150	16 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.04 dB	0.02 dB	0.32 dB



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

Type of equipment: Non-adaptive Equipment.

Radio B (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	9.90	10.00	10.00
Occupied bandwidth (MHz)	13.20	13.10	13.10

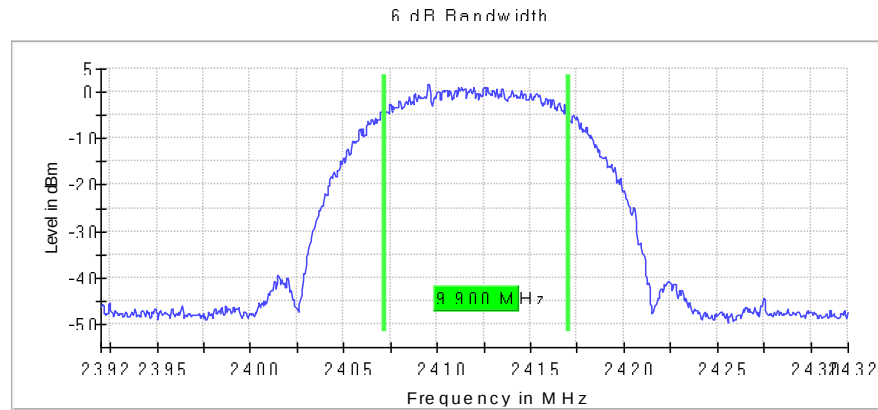
6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	30 / max. 150	20 / max. 150	24 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.06 dB	0.05 dB	0.05 dB

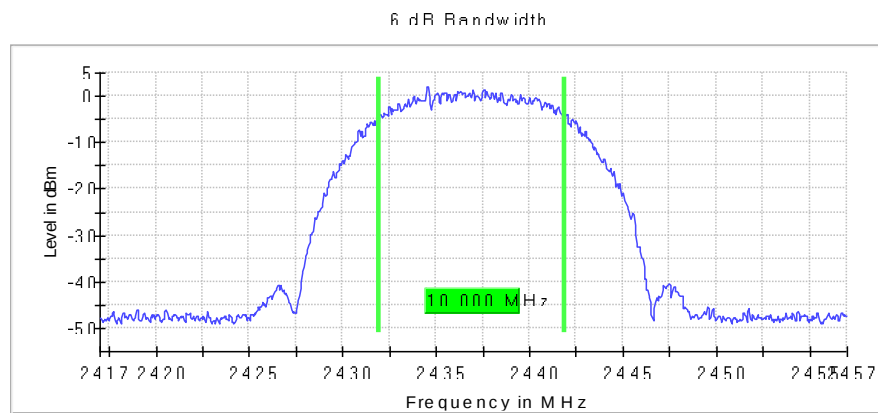
TEST RESULTS (Cont.):

6 dB BANDWIDTH

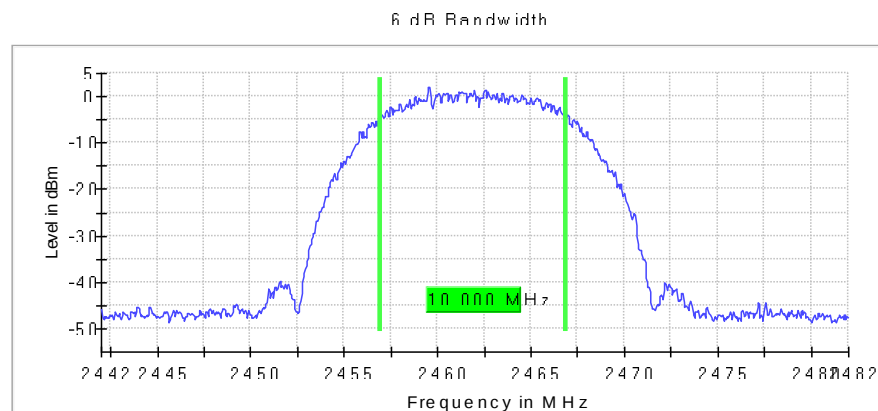
Lowest Channel



Middle Channel



Highest Channel



TEST RESULTS (Cont.):

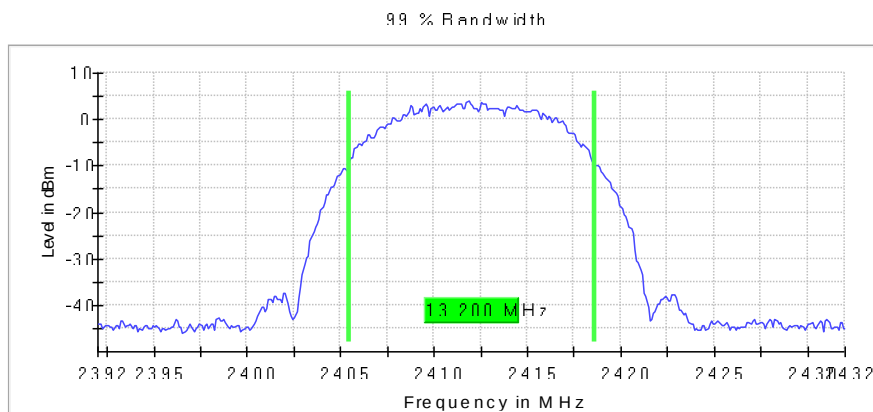
OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.447 us	28.447 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	13 / max. 150	19 / max. 150	15 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.12 dB	0.16 dB	0.29 dB

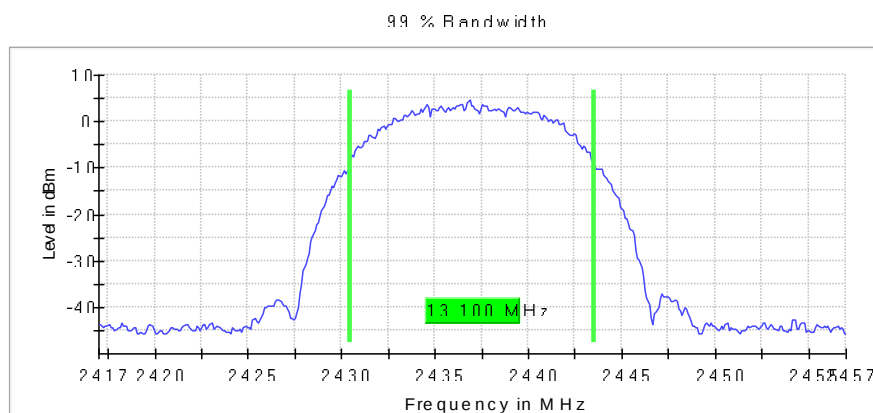
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

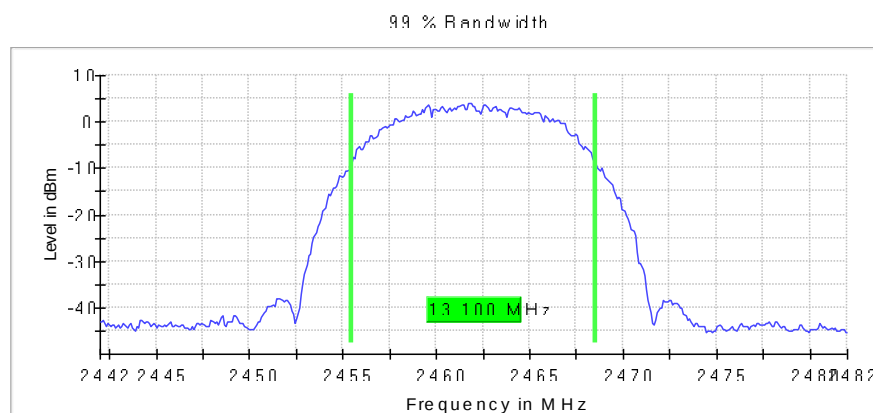
Lowest Channel



Middle Channel



Highest Channel



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

Type of equipment: Non-adaptive Equipment.

Radio A + B (MIMO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	10.10	10.00	10.15
Occupied bandwidth (MHz)	14.10	14.00	14.00

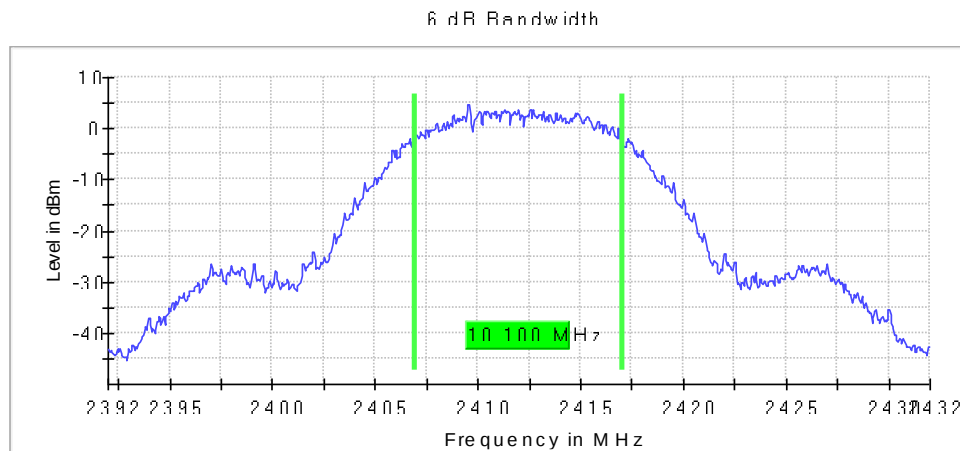
6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	13 / max. 150	21 / max. 150	18 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.46 dB	0.08 dB	0.08 dB

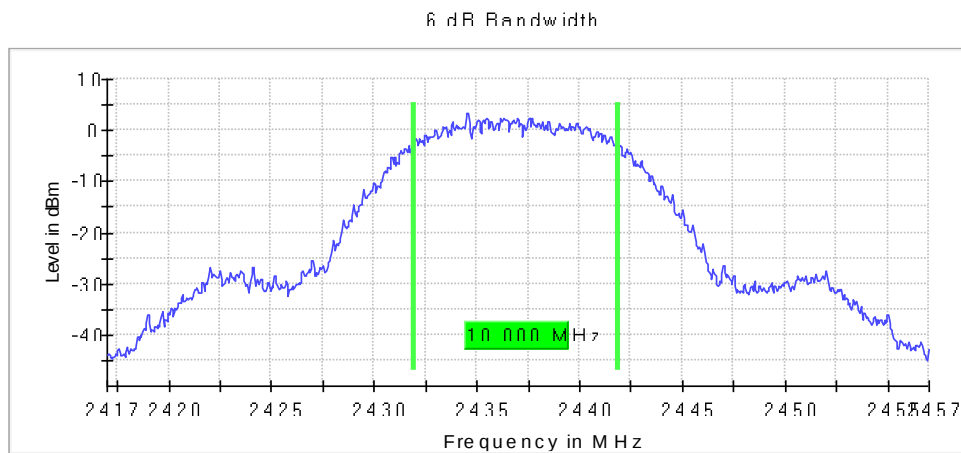
TEST RESULTS (Cont.):

6 dB BANDWIDTH

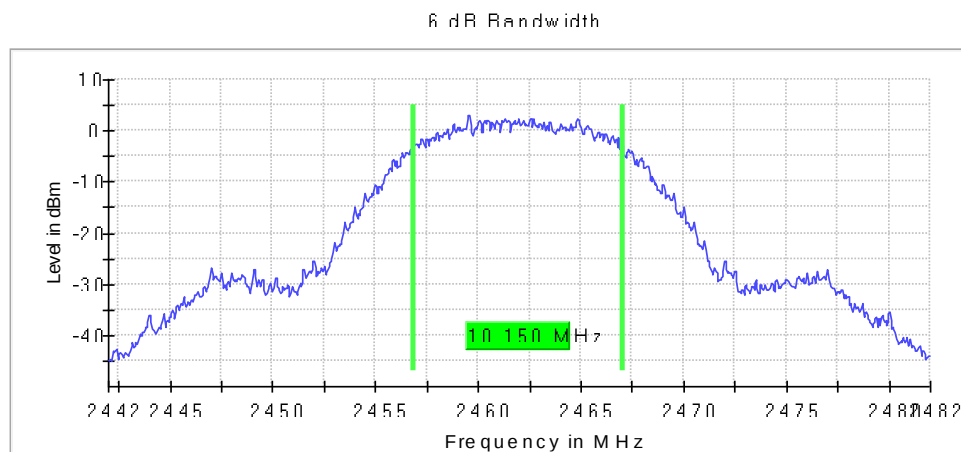
Lowest Channel



Middle Channel



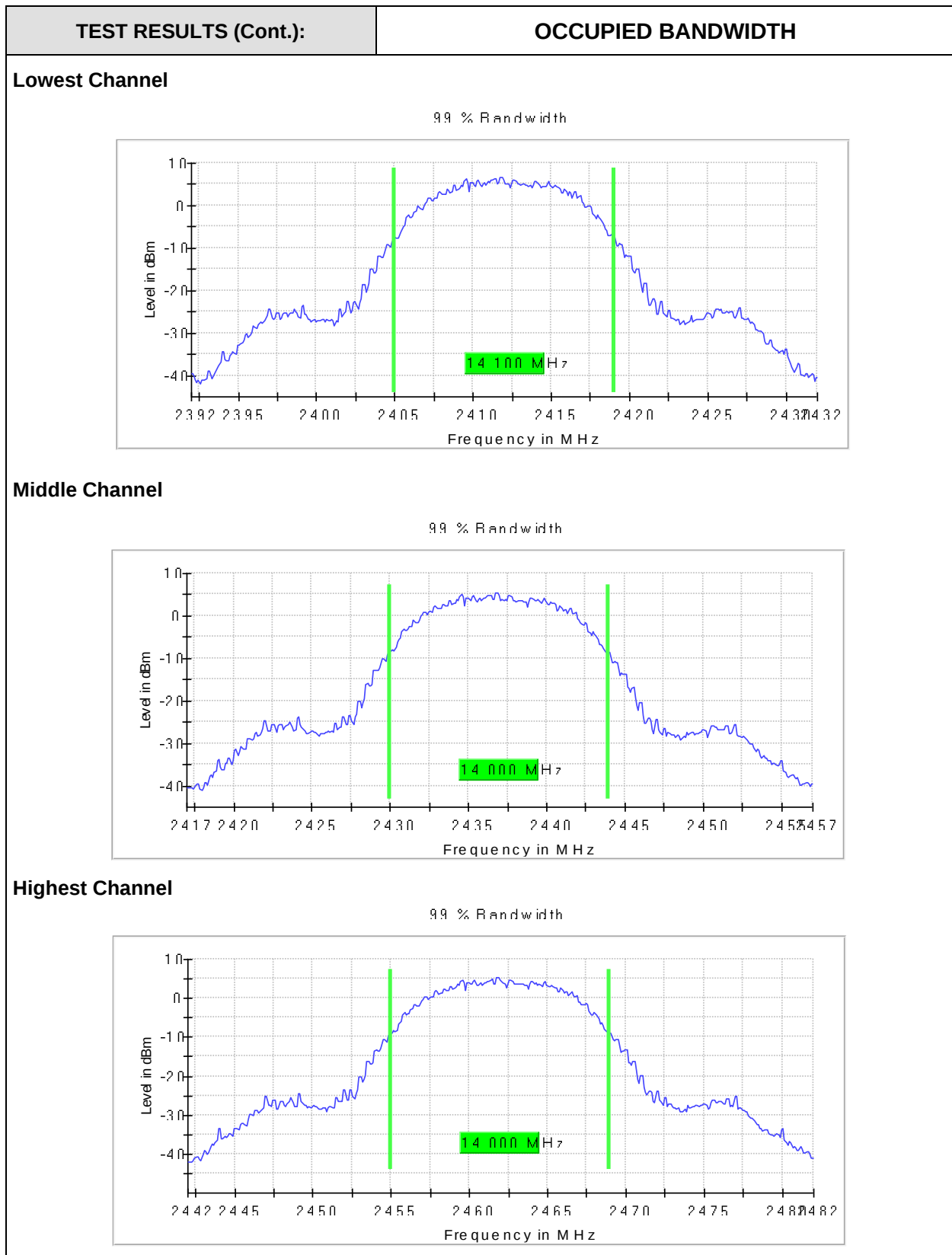
Highest Channel



TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	15 / max. 150	16 / max. 150	24 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.07 dB	0.23 dB	0.30 dB



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

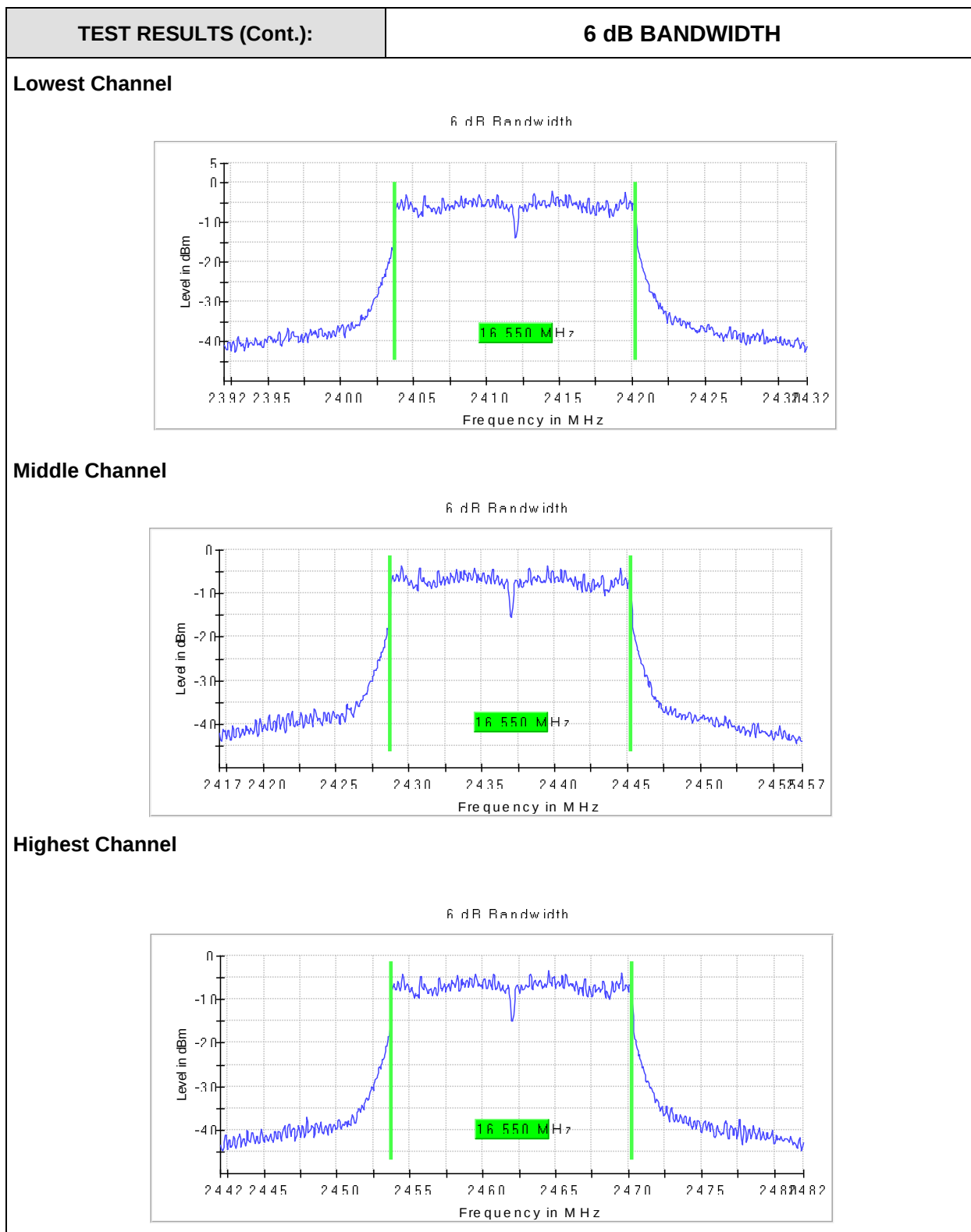
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	16.55	16.55	16.55
Occupied bandwidth (MHz)	16.50	16.60	16.50

6dB Measurement

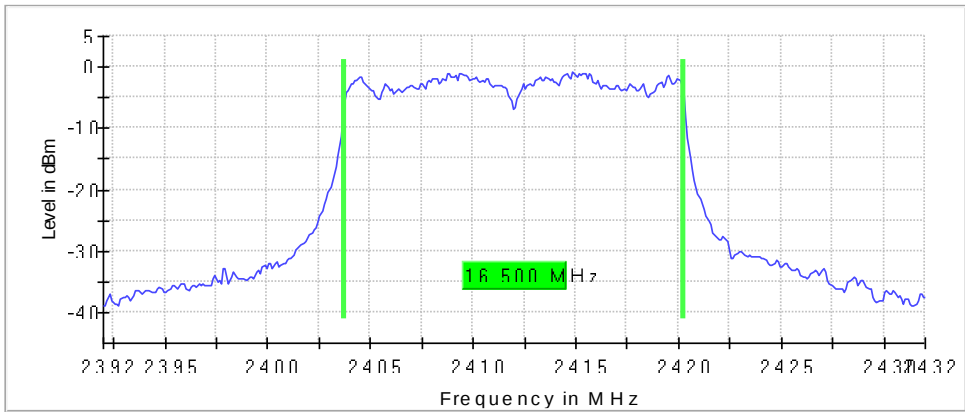
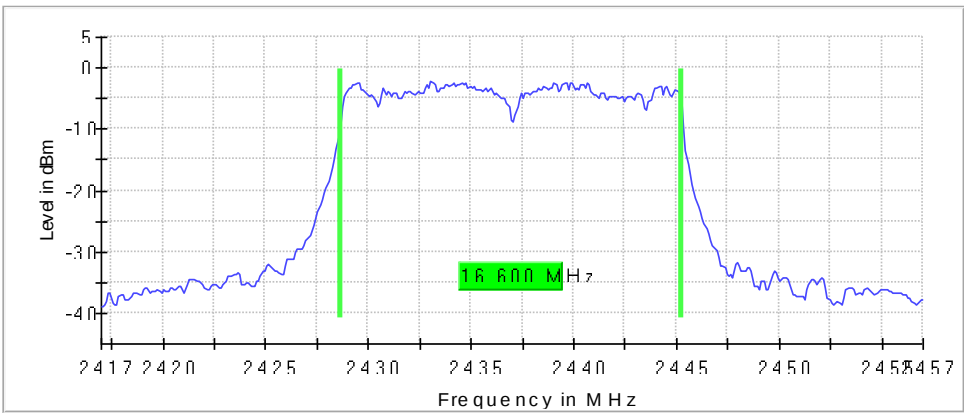
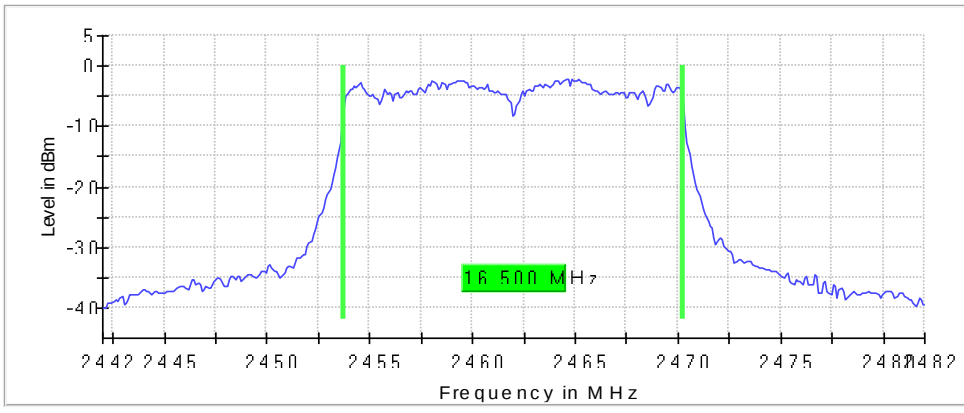
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 µs	56.836 µs	56.836 µs
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	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	49 / max.	47 / max. 150	53 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.27 dB	0.31 dB	0.42 dB



TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	68 / max. 150	30 / max. 150	42 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.26 dB	0.23 dB	0.03 dB

TEST RESULTS (Cont.):	OCCUPIED BANDWIDTH
Lowest Channel 99 % Bandwidth 	
Middle Channel 99 % Bandwidth 	
Highest Channel 99 % Bandwidth 	

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

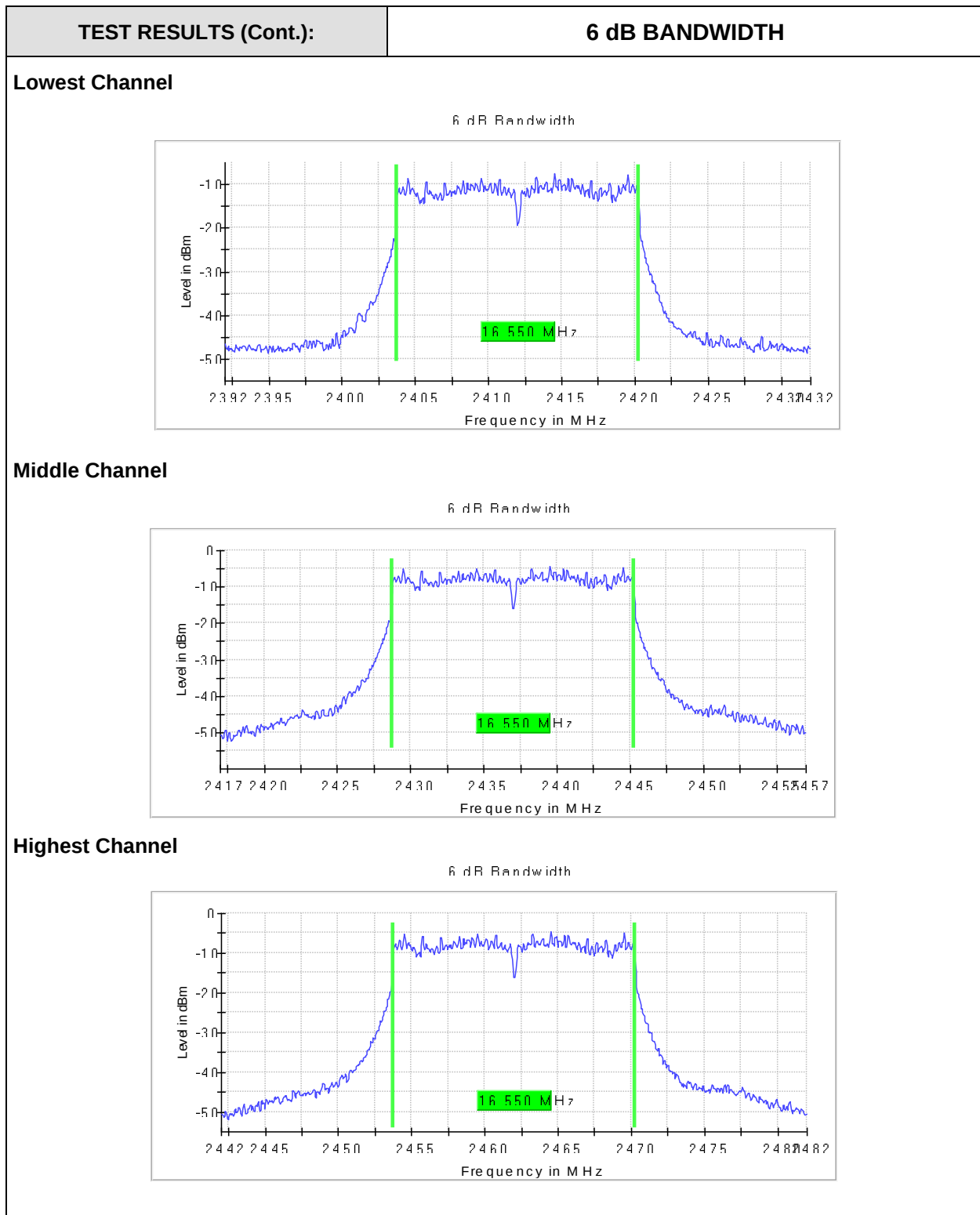
Type of equipment: Non-adaptive Equipment.

Radio B (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	16.55	16.55	16.55
Occupied bandwidth (MHz)	16.50	16.50	16.50

6dB Measurement

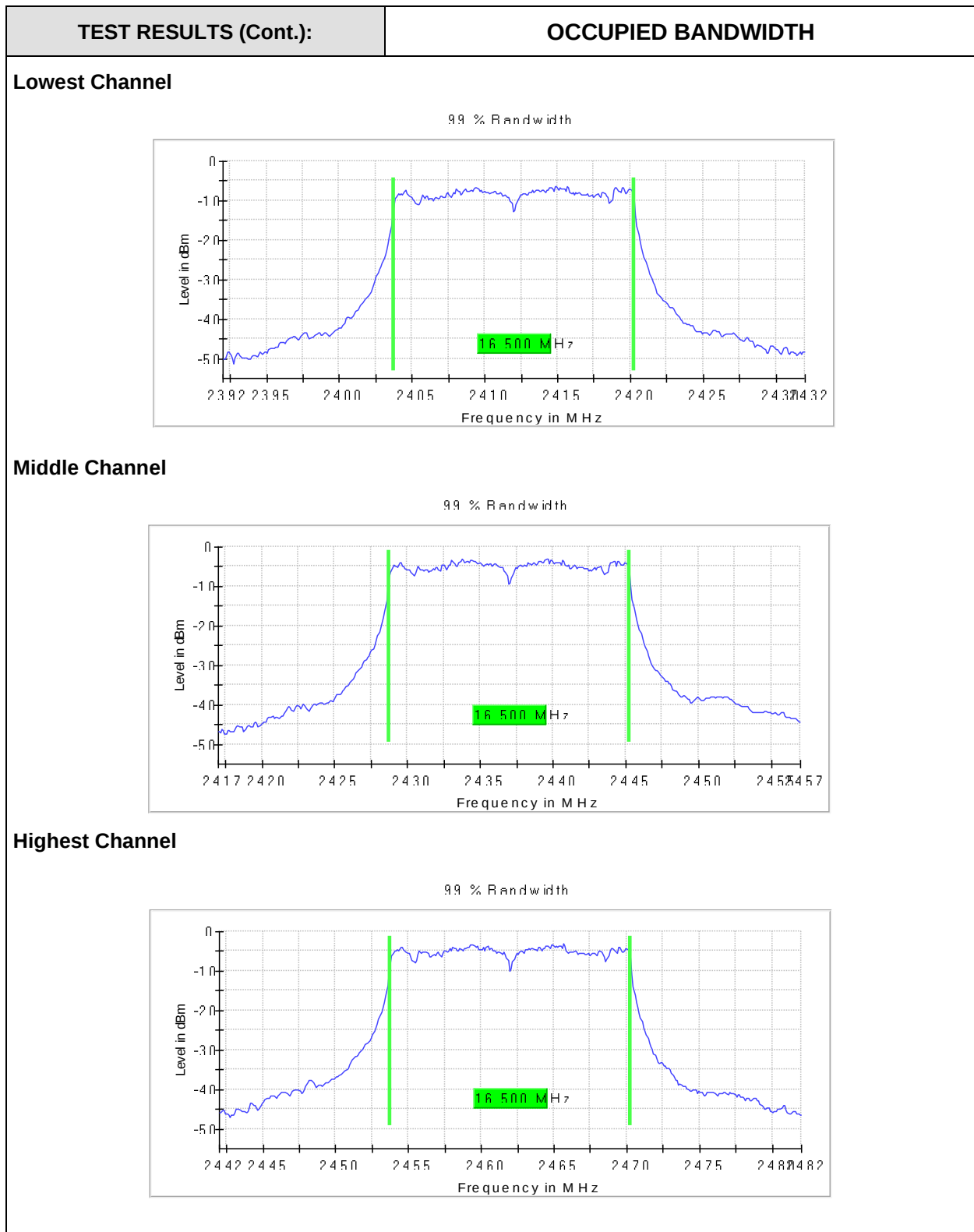
Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	71 / max. 150	37 / max. 150	59 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.08 dB	0.19 dB	0.25 dB



TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	200	200
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	43 / max. 150	53 / max. 150	54 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.10 dB	0.02 dB	0.03 dB



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

Type of equipment: Non-adaptive Equipment.

Radio A + B (MIMO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB Bandwidth (MHz)	16.550	16.550	16.550
Occupied bandwidth (MHz)	24.400	25.700	24.900

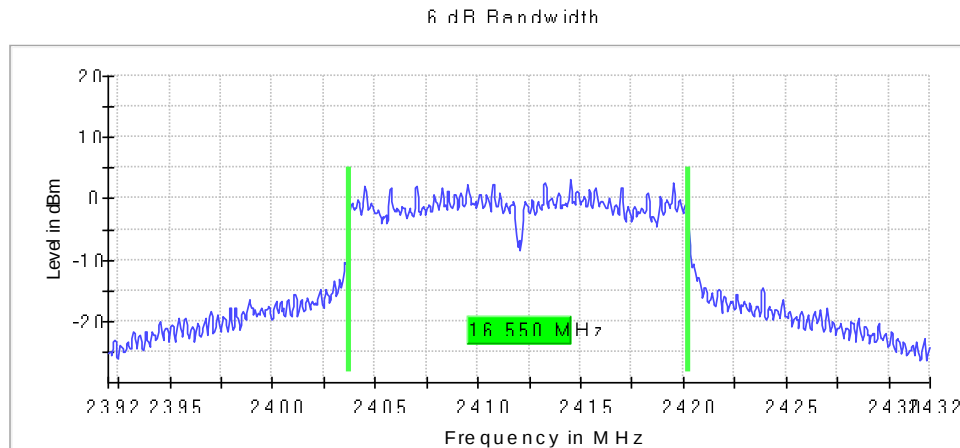
6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	24 / max. 150	24 / max. 150	23 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.29 dB	0.23 dB	0.16 dB

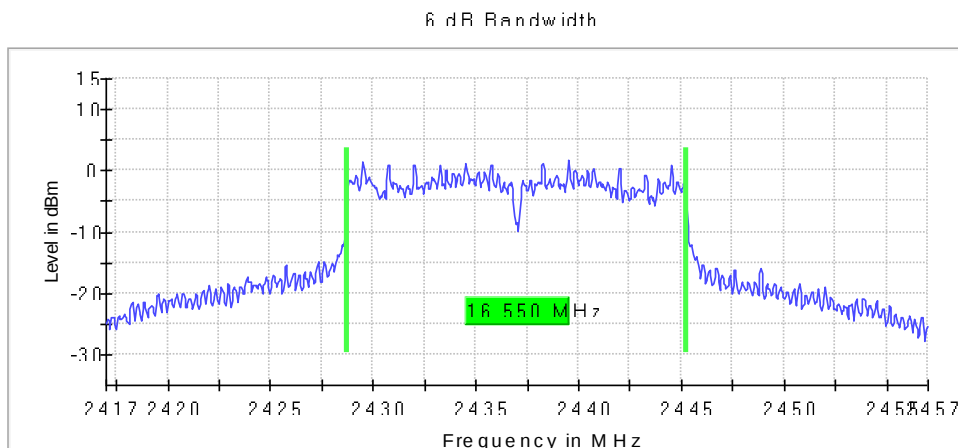
TEST RESULTS (Cont.):

6 dB BANDWIDTH

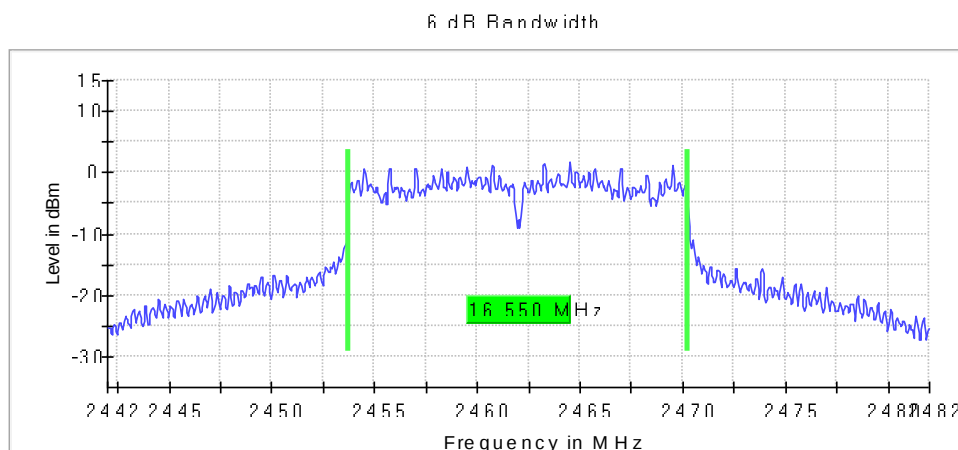
Lowest Channel



Middle Channel



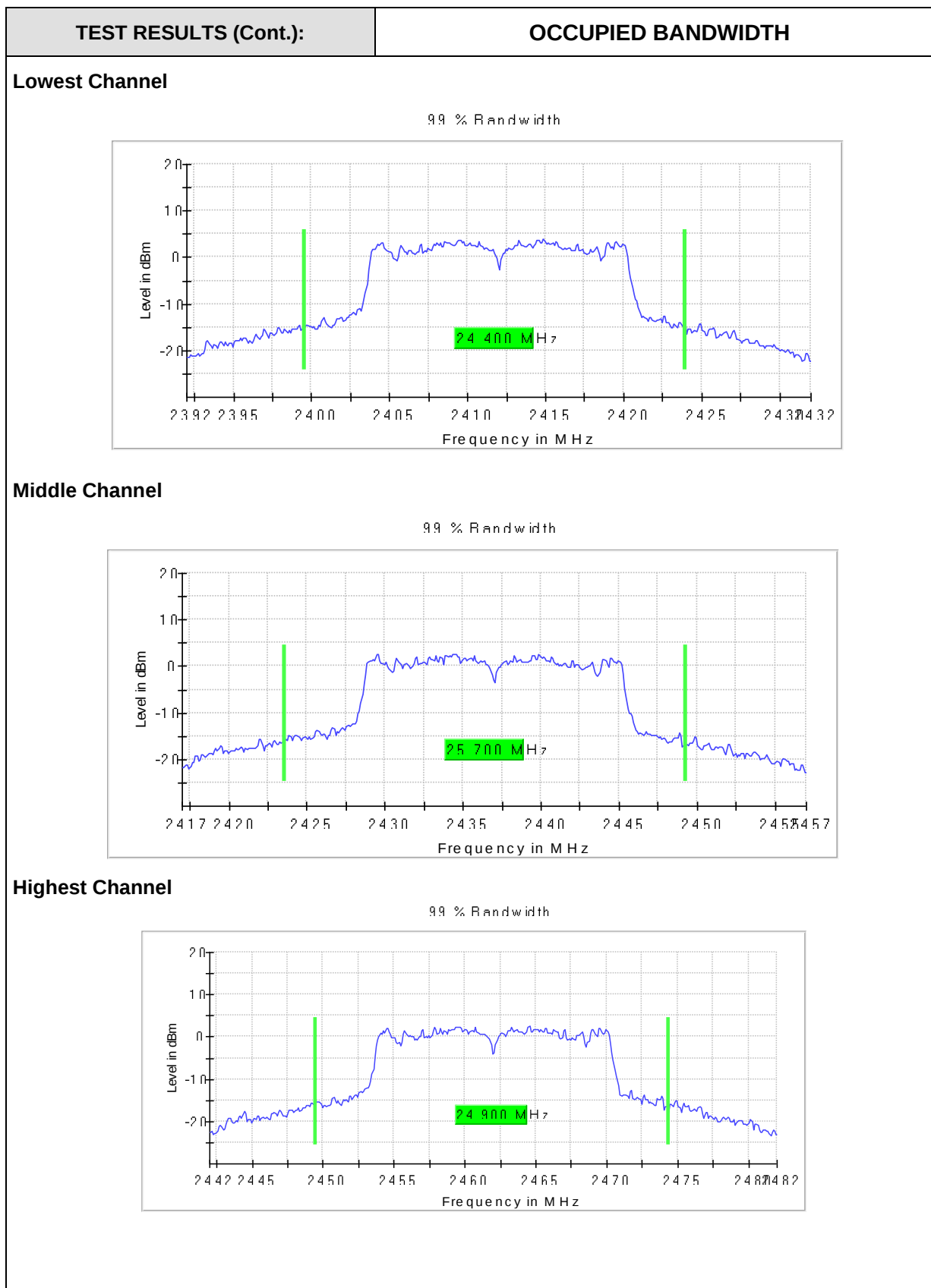
Highest Channel



TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	11 / max. 150	20 / max. 150	26 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.09 dB	0.17 dB	0.09 dB



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n20 mode SISO)
TEST RESULTS:	PASS

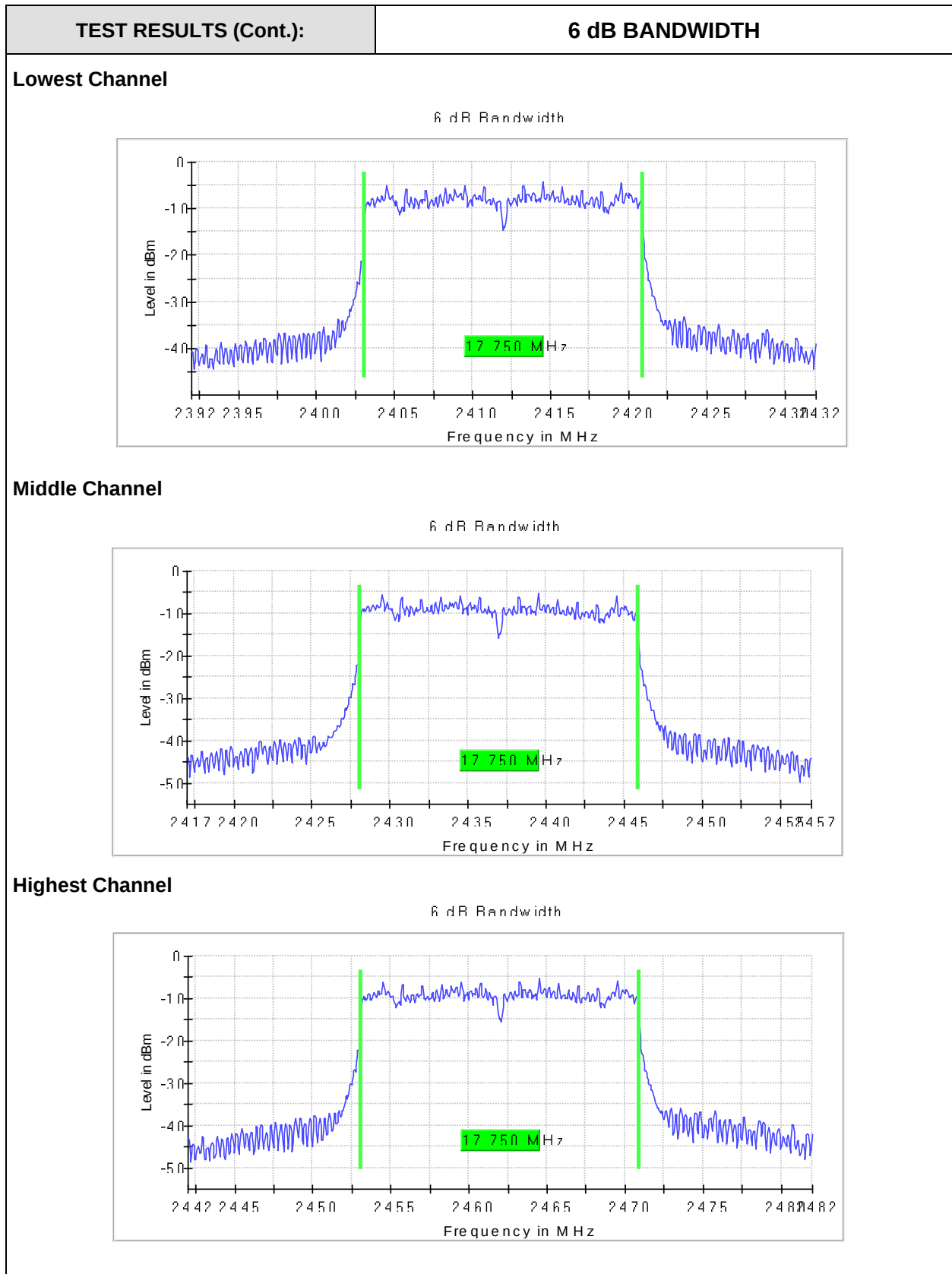
Type of equipment: Non-adaptive Equipment.

Radio A (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	17.75	17.75	17.75
Occupied bandwidth (MHz)	17.70	17.70	17.70

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	52 / max. 150	57 / max. 150	66 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable	0.11 dB	0.30 dB	0.20 dB



TEST RESULTS (Cont.):

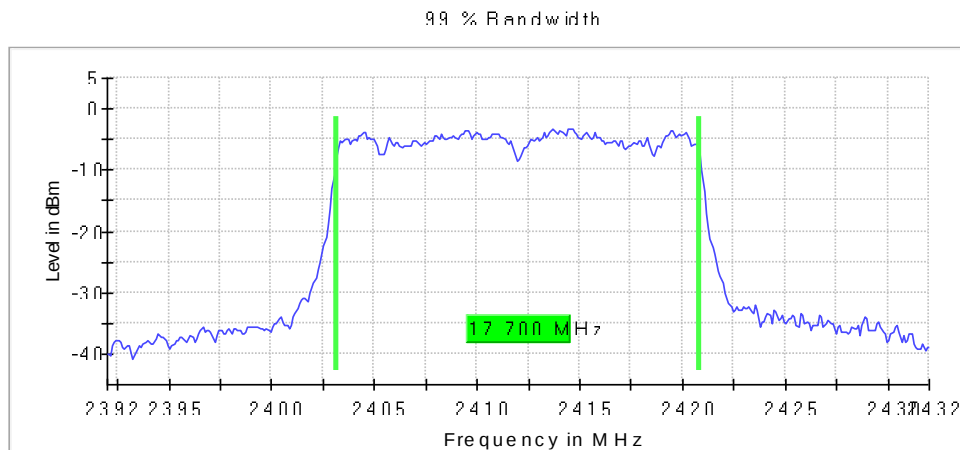
OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	58 / max. 150	65 / max. 150	59 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.28 dB	0.19 dB	0.18 dB

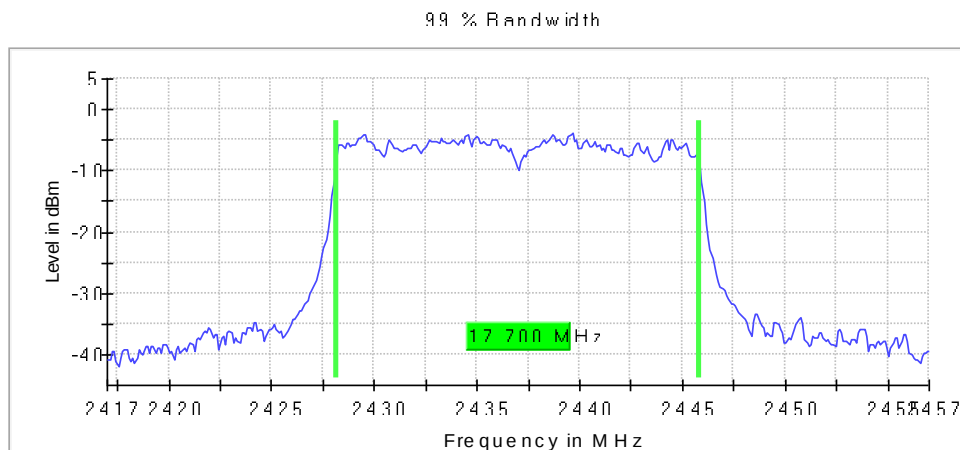
TEST RESULTS (Cont.):

OCCUPIED BANDWIDTH

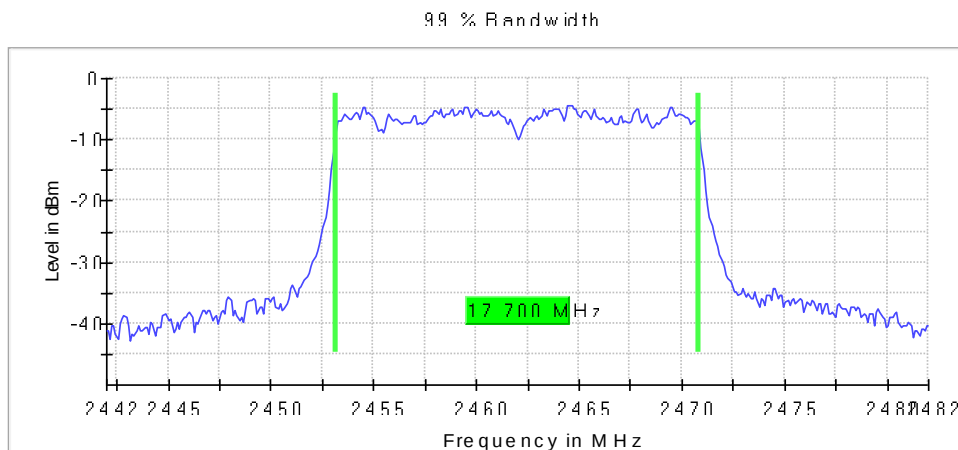
Lowest Channel



Middle Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n20 mode SISO)
TEST RESULTS:	PASS

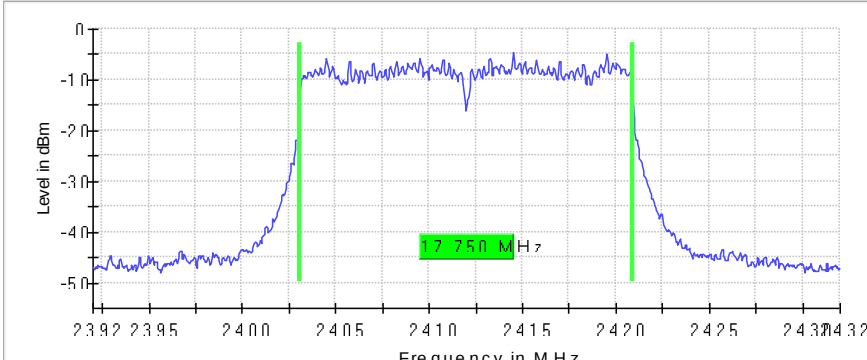
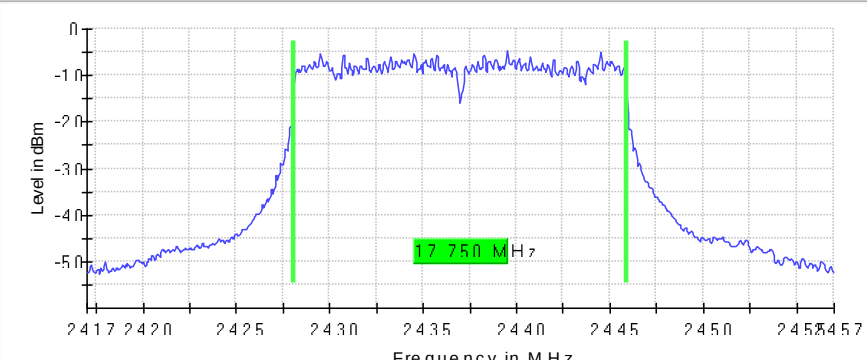
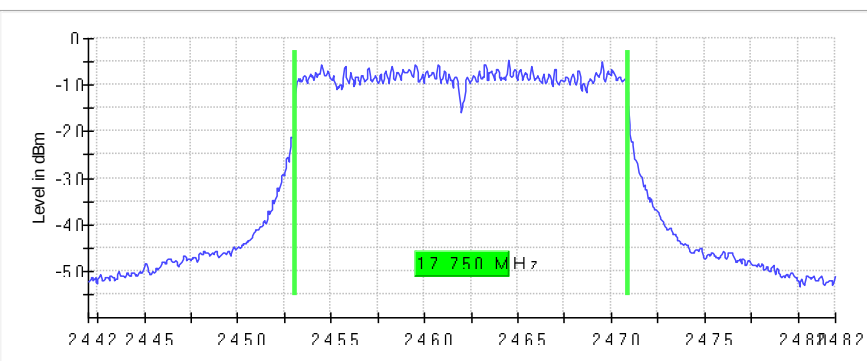
Type of equipment: Non-adaptive Equipment.

Radio B (SISO)

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
6dB bandwidth (MHz)	17.75	17.75	17.75
Occupied bandwidth (MHz)	17.70	17.70	17.70

6dB Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	100.000 kHz	100.000 kHz	100.000 kHz
VBW	300.000 kHz	300.000 kHz	300.000 kHz
Sweep Points	800	800	800
Sweep time	56.836 μ s	56.836 μ s	56.836 μ s
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	FFT	FFT	FFT
Preamp	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.50 dB	0.50 dB	0.50 dB
Run	55 / max. 150	55 / max. 150	72 / max. 150
Stable	5 / 5	5 / 5	5 / 5
Max Stable Difference	0.09 dB	0.05 dB	0.01 dB

TEST RESULTS (Cont.):	6 dB BANDWIDTH
Lowest Channel 6 dB Bandwidth  Middle Channel 6 dB Bandwidth  Highest Channel 6 dB Bandwidth 	

TEST RESULTS (Cont.):

OBW Measurement

Setting	Instrument Value	Instrument Value	Instrument Value
Start Frequency	2.39200 GHz	2.41700 GHz	2.44200 GHz
Stop Frequency	2.43200 GHz	2.45700 GHz	2.48200 GHz
Span	40.00 MHz	40.000 MHz	40.000 MHz
RBW	200.000 kHz	200.000 kHz	200.000 kHz
VBW	1.000 MHz	1.000 MHz	1.000 MHz
Sweep Points	400	400	400
Sweep time	28.477 us	28.477 us	28.477 us
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	FFT	FFT	FFT
Preamplifier	off	off	off
Stable mode	Trace	Trace	Trace
Stable value	0.30 dB	0.30 dB	0.30 dB
Run	49 / max. 150	35 / max. 150	38 / max. 150
Stable	3 / 3	3 / 3	3 / 3
Max Stable	0.20 dB	0.09 dB	0.10 dB