Laboratories GSD SRL

CE MARKING

ELECTROMAGNETIC COMPATIBILITY
ELECTRICAL SAFETY
LASER SPECTROSCOPY
ENVIRONMENTAL PHYSICS

G.S.D. S.r.l.
Certified in accordance with
UNI EN ISO 9001:2008
by
TÜV Rheinland Italia S.r.l.
Certificate N. 39 00 1850509

G.S.D. S.r.l **PISA - Italy**	***Test Report n. 17170-FCC***	Rev. 01

Manufacturer	**Power-One Italy S.p.A.**
Address	Via San Giorgio, 642 52028 Terranuova Bracciolini (AR) Italy
Test Item Name	**V2P53**
Testing Laboratory Name	**G.S.D. S.r.l.**
Address	Via Marmiceto, 8 56121 Ospedaletto Pisa (PI) Italy
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	FCC Listed: Registration Number: 424037
Location and Date of Issue	Pisa: July 05, 2017

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Dr. Gian Luca Genovesi

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Report Revision History

Revision details

Date	*Page No.(s)*	*Details*
2017 May 04	97	Rev. 00 First issue
2017 July 05	97	Rev. 01 Second issue

1. MANUFACTURER AND EUT IDENTIFICATION [1]

Manufacturer	**Power-One Italy S.p.A..**
Address	Via San Giorgio, 642 52028 Terranuova Bracciolini (AR) Italy
Test Item Name	**V2P53**
Date of reception	**2015 November 12**
Sampling	**Laboratory sample for certification**
Test Item Description	**WiFi Device**
Nominal Input Voltage	**12Vdc**
Frequency Range	2400-2483.5 MHz
Std 802.11	IEEE Std 802.11b, 802.11g and 802.11n
Modulation Technology	
Transfer Rate	802.11b: 11 / 5.5 / 2 / 1 Mbps 802.11g: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n: 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5 Mbps
Antenna Connector /Types :	RSMA connector
Antenna Manufacturer	RF Antenna Technology Corp.
Antenna Model	EA-79F
Antenna Gain	2.95-3.32 dBi
FCC ID	**X6W-V2P53**

[1] A detailed documentation is preserved in the internal fascicle.

2. REFERENCE STANDARDS

Tests and measurements are performed accordingly to the reference standards given in the table below:

TEST	*STANDARD*
Operation within the band 2400-2483,5 MHz: Test Procedures 15.247 (a)(2), (b)(3), (d), (e)	FCC Rules ad Regulations, Title 47 Part 15 – Sub part C ANSI C63.4 – American National Standard for Methods of Measuring of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz: 2014 KDB 558074 D01 DTS Meas Guidance v03r04 Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 ANSI C63.10 - American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices: 2013
Maximum Permissible Exposure	OET Bulletin 65 Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields FCC Rules ad Regulations, Title 47 Part 15

3. RESULT, CONDITION, MEASUREMENT UNCERTAINTY, ANTENNA REQUIREMENTS

Summary of Test Results

TEST	*RESULT*
6 dB bandwidth *Section 15.247 (a) (2)*	*Pass*
Peak Conducted Output Power: *Section 15.247 (b) (3)*	*Pass*
Band Edge *Section 15.247 (d)*	*Pass*
Power Spectral Density *Section 15.247 (e)*	*Pass*
Power Line Conducted Emissions *Section 15.207*	*Pass*
Radiated Emissions *Section 15.209*	*Pass*

Internal Procedures:
APR01: internal procedure for antenna port measurement Revision 01
CE22R01: internal procedure for power lead port measurement Revision 01
RE22R02: internal procedure for radiated emissions measurement Revision 02

Measurement uncertainty

TEST	*EXPANDED UNCERTAINTY*
Conducted Emission – 50Ω/50µH AMN (150 kHz - 30 MHz)	± 3.5 dB
Radiated Emission – (Semianechoic Room) (30 MHz - 40 GHz)	± 4.7 dB

Climatic Conditions

PARAMETER	*VALUE*
Temperature	(293 ± 3) K
Relative humidity	(50 ± 5) %

Power during the tests: 12 Vdc

Antenna Requirements:
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
Results:
The antennas used for this product are antenna with RPSMA, the maximum peak gain of the transmit antenna is only -1.87dBi.
Extensions
The results refer only to the sampled EUT and under the specified conditions.

4. 6 dB BANDWIDTH

Peak Output Power

Equipment shall meet the limits below.

FREQUENCY RANGE (MHz)	Limit
2400 – 2483.5	The minimum 6 dB Bandwidth shall be at least 500 kHz

Results: 6dB Bandwidth > 500 kHz

802.11b Mode, 11 Mbs

Channel	*Frequency (MHz)*	*6 dB Bandwidth (MHz)*	*Minimum Limit (MHz)*	*Margin (MHz)*
Low	2412	7.74	0.5	7.24
Mid	2437	8.37	0.5	7.87
High	2462	7.67	0.5	7.17

802.11g Mode, 54 Mbs

Channel	*Frequency (MHz)*	*6 dB Bandwidth (MHz)*	*Minimum Limit (MHz)*	*Margin (MHz)*
Low	2412	15.41	0.5	14.91
Mid	2437	15.33	0.5	14.83
High	2462	15.13	0.5	14.63

802.11n Mode, mcs7 (65 Mbs)

Channel	*Frequency (MHz)*	*6 dB Bandwidth (MHz)*	*Minimum Limit (MHz)*	*Margin (MHz)*
Low	2412	16.37	0.5	15.87
Mid	2437	16.25	0.5	15.75
High	2462	16.08	0.5	15.58

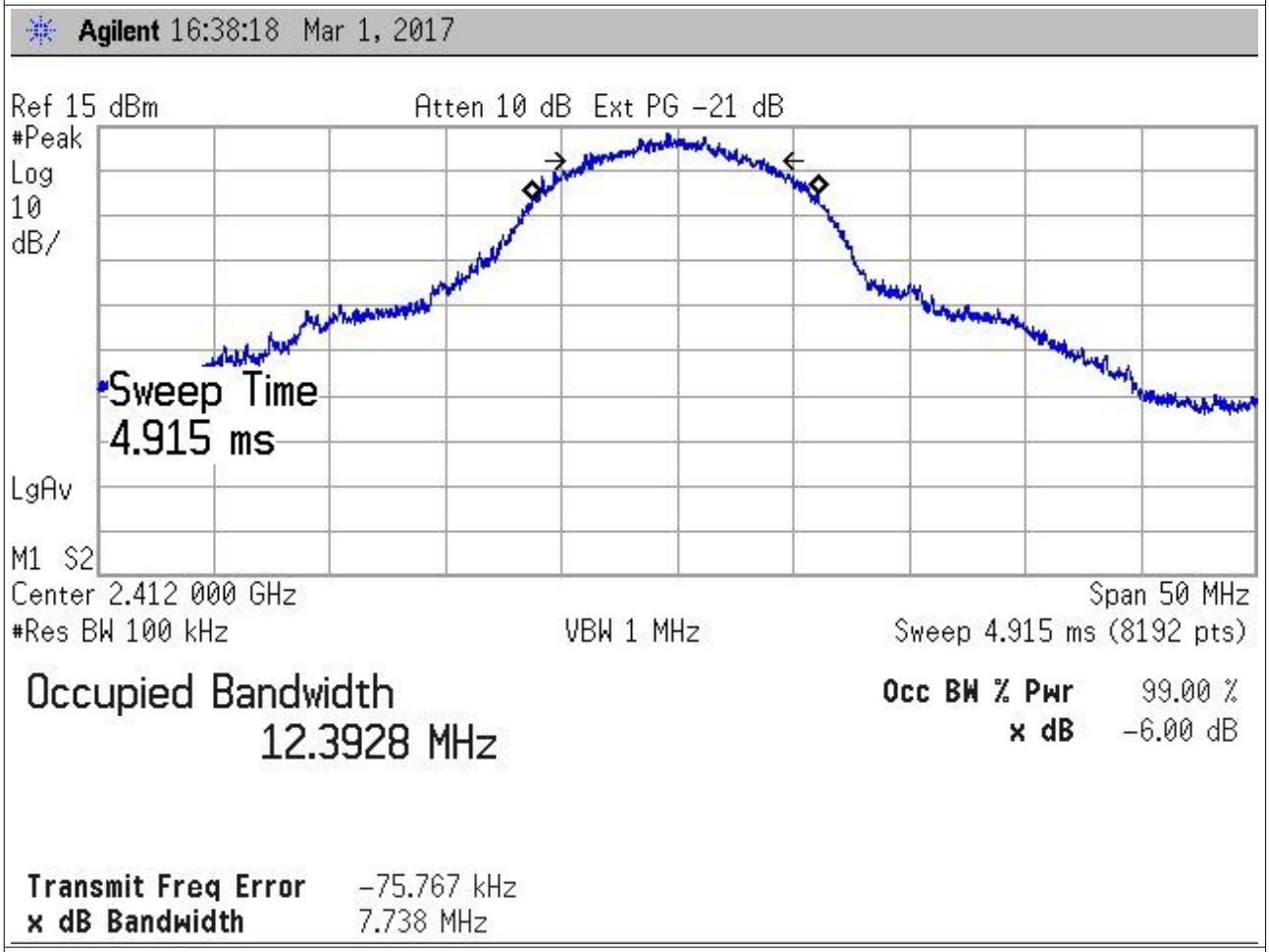
Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DATE
EMI Receiver	Agilent	E4440A	01/2018

Test procedure: APR01

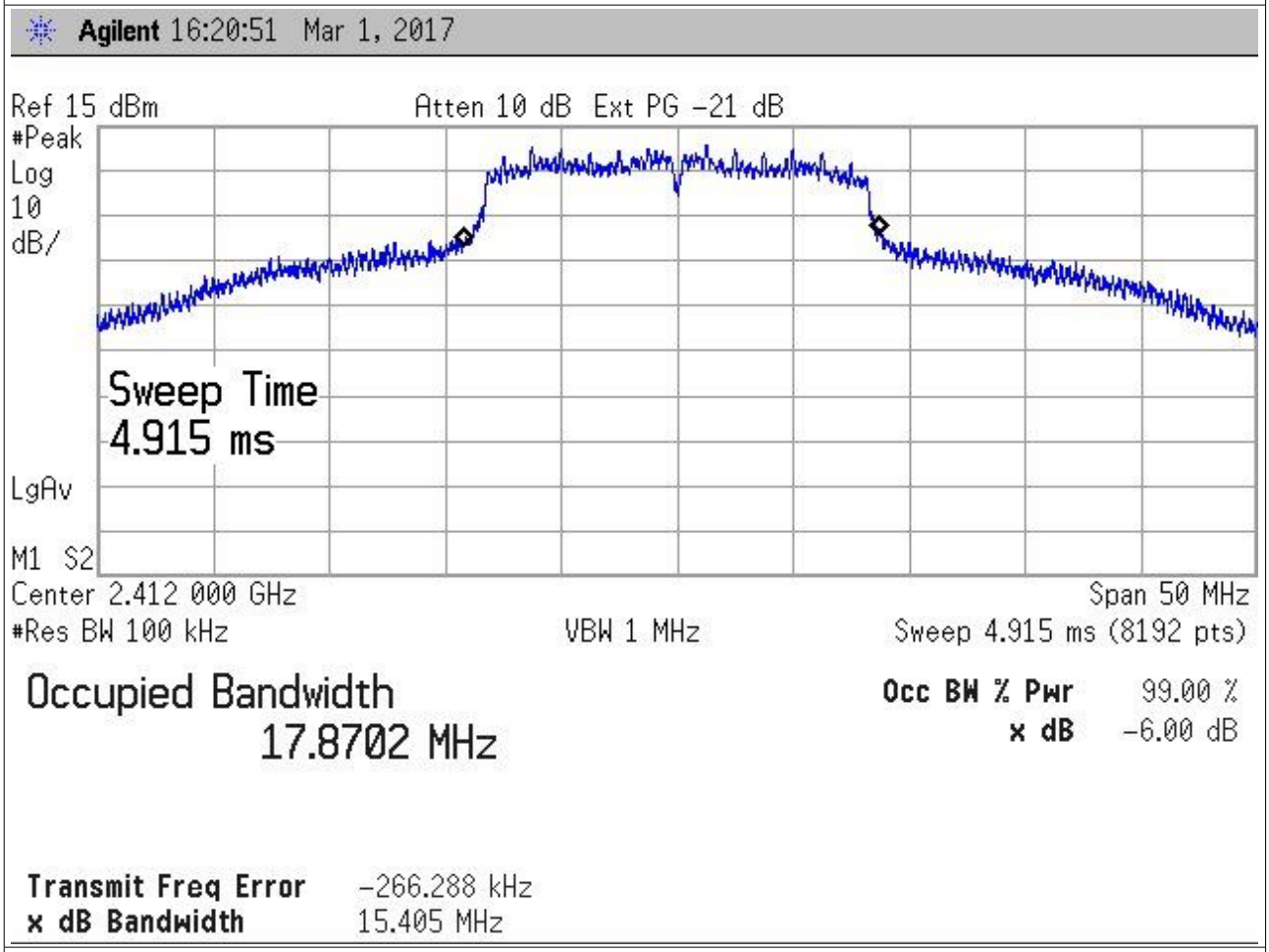
Test performed on low, middle and high channels and in the b,g,n protocols at maximum and minimum data rate for each protocol.

In the following graphs results are shown:



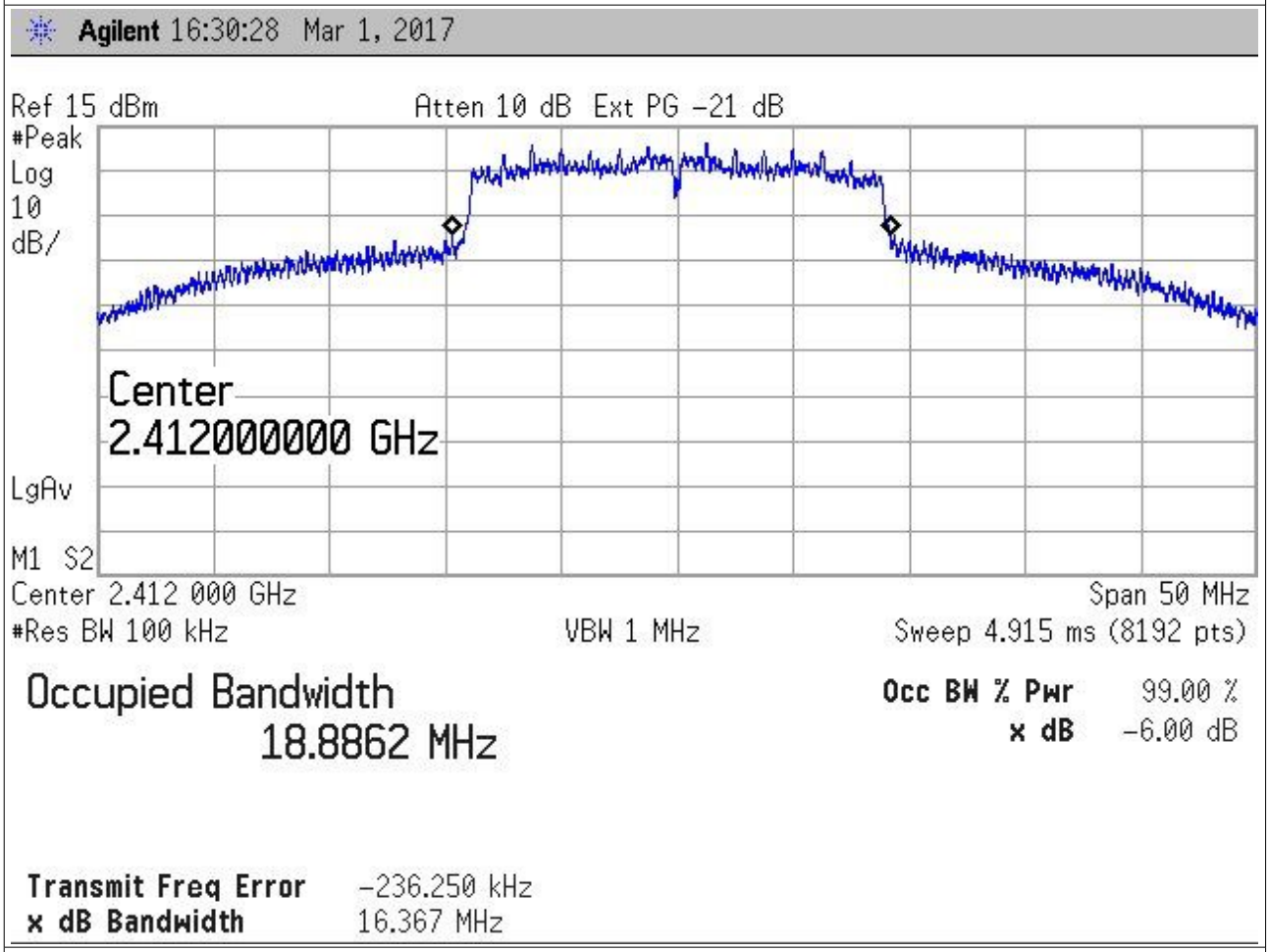
Note:

Channel 1; "11b" at 11Mbps
DTS BW (-6dB): 7.738 MHz
OBW (99%): 12.393 MHz



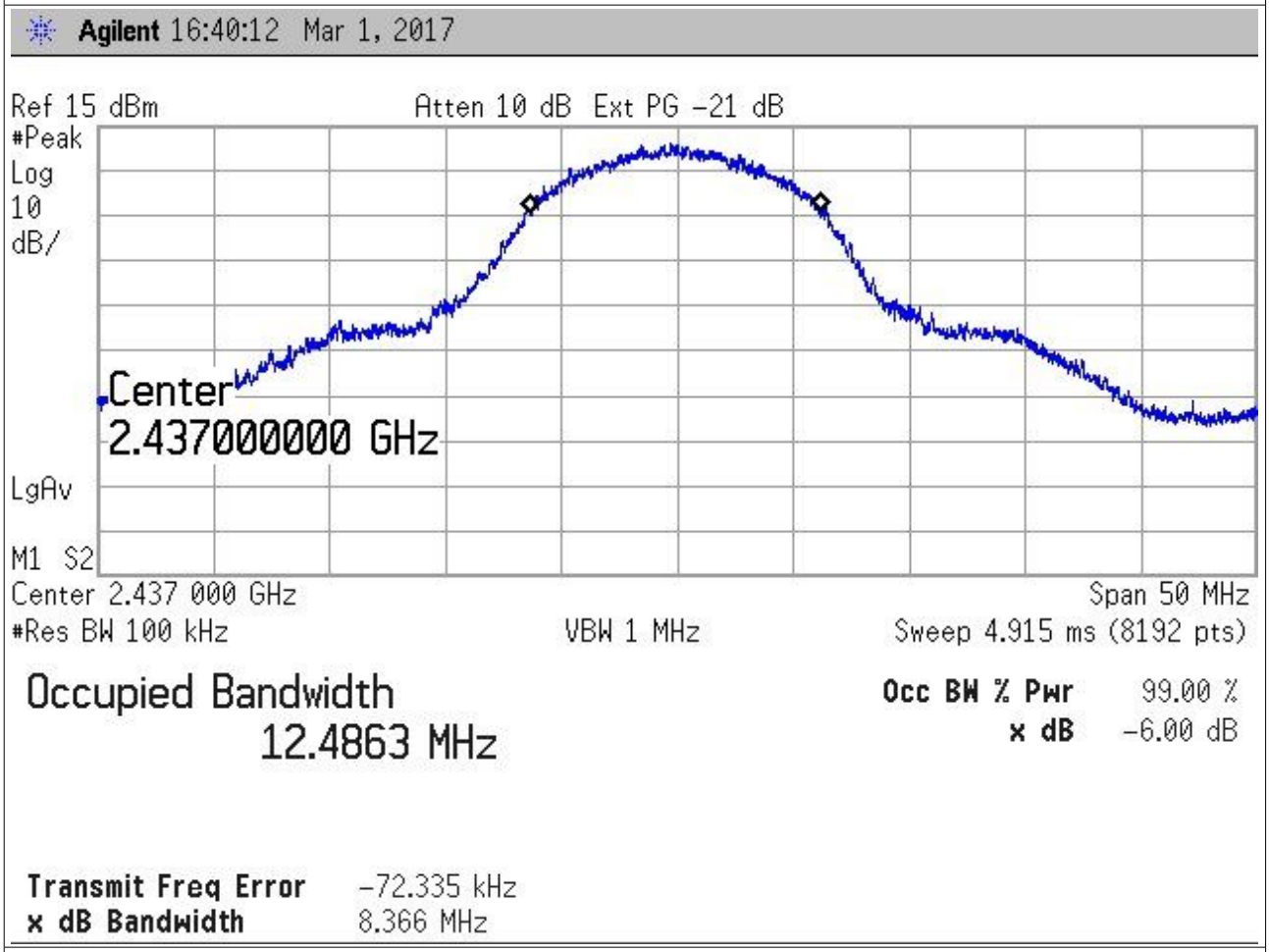
Note:

Channel 1; "11g" at 54Mbps
DTS BW (-6dB): 15.405 MHz
OBW (99%): 17.870 MHz



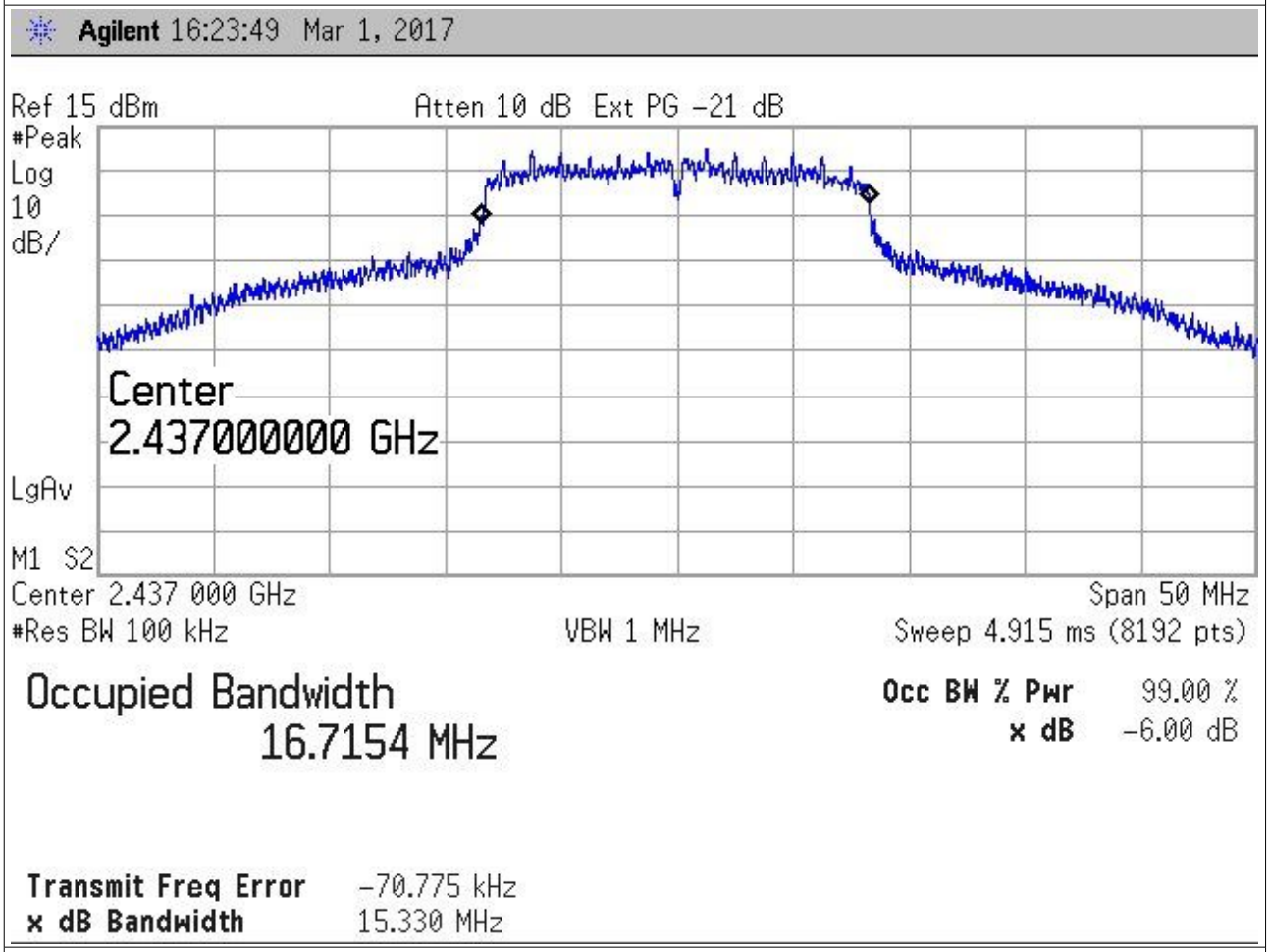
Note:

Channel 1; "11n" at 65Mbps
DTS BW (-6dB): 16.367 MHz
OBW (99%): 18.886 MHz



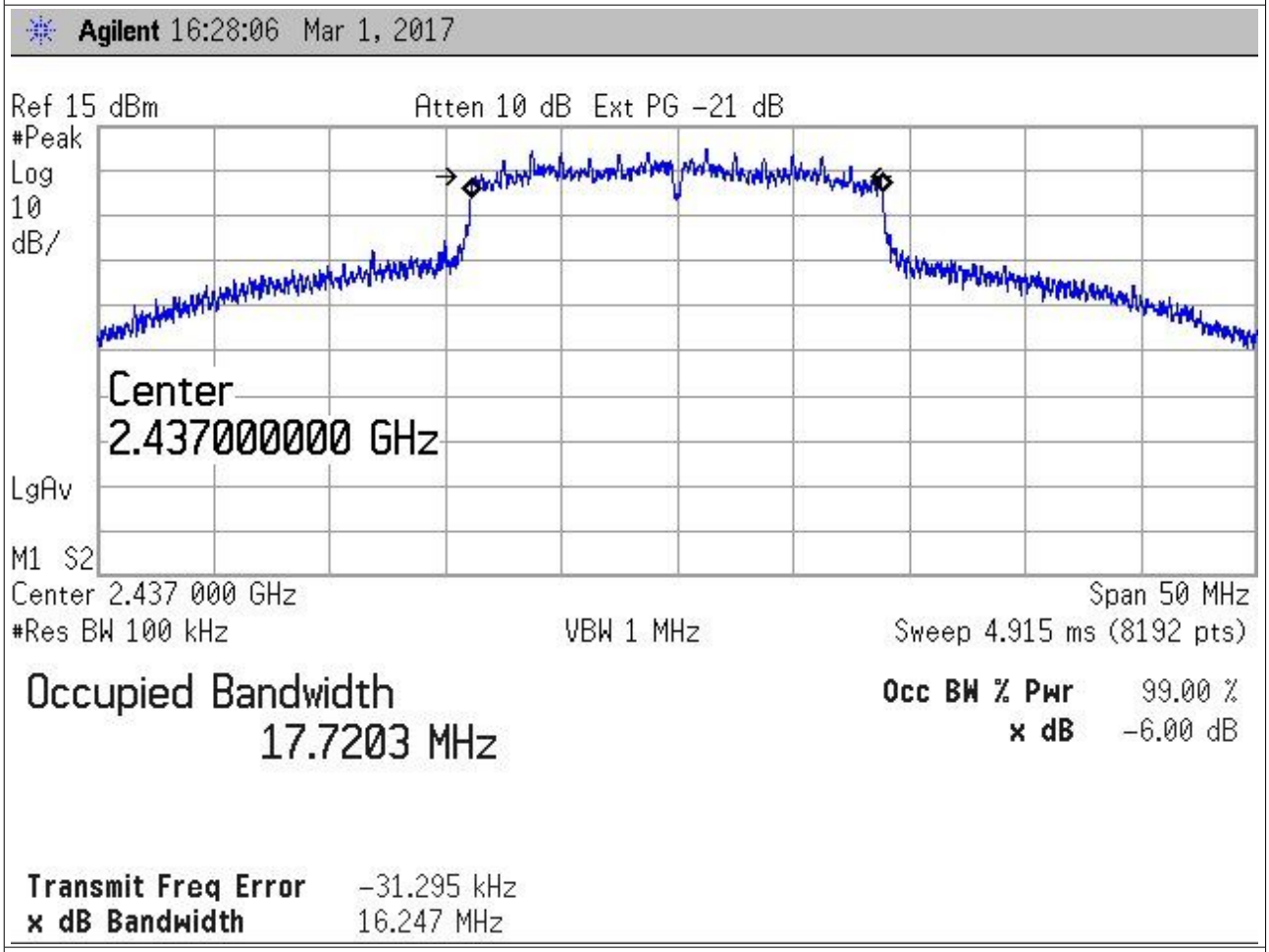
Note:

Channel 6; "11b" at 11Mbps
DTS BW (-6dB): 8.366 MHz
OBW (99%): 12.486 MHz



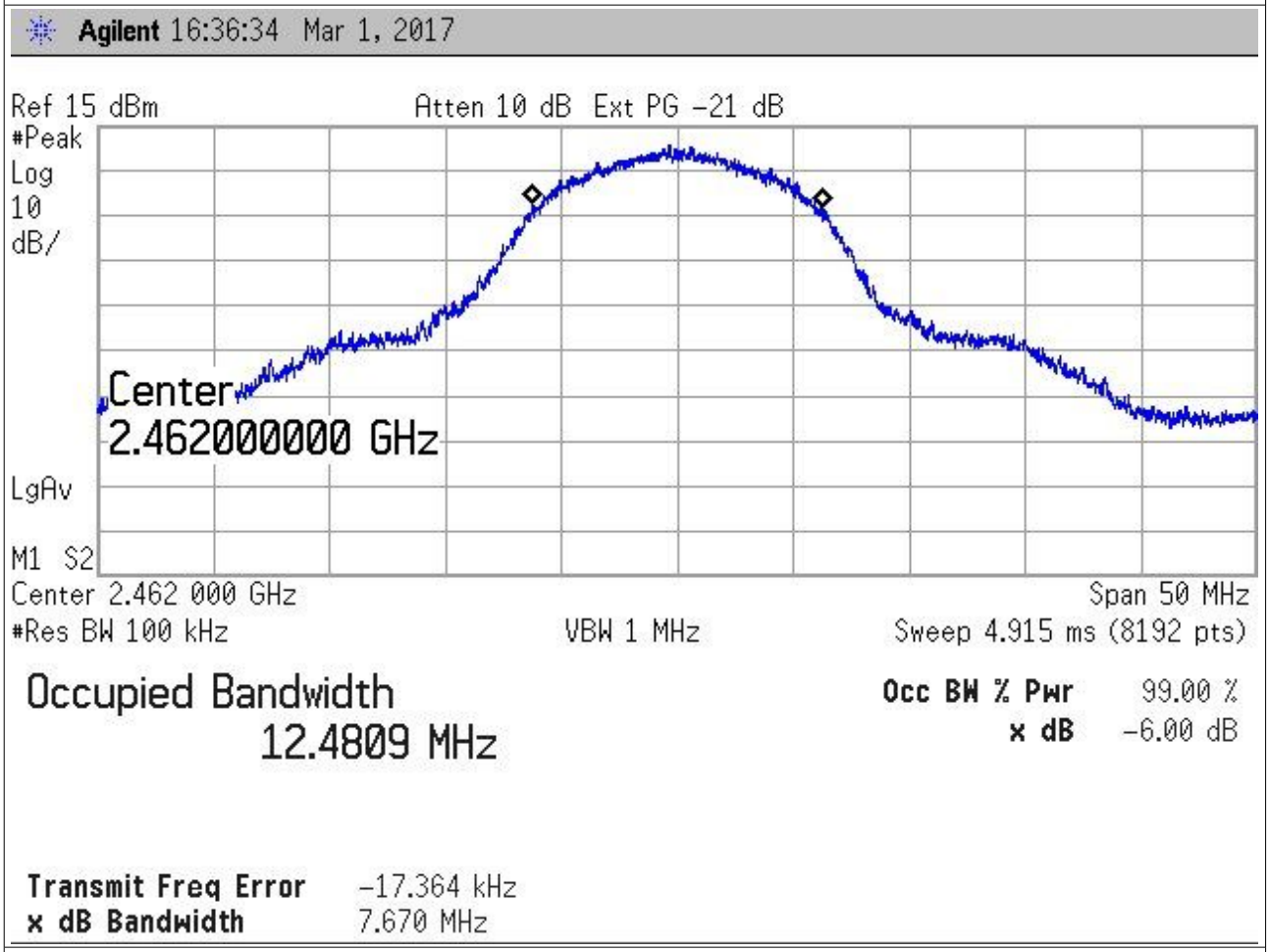
Note:

Channel 6; "11g" at 54Mbps
DTS BW (-6dB): 15.330 MHz
OBW (99%): 16.715 MHz



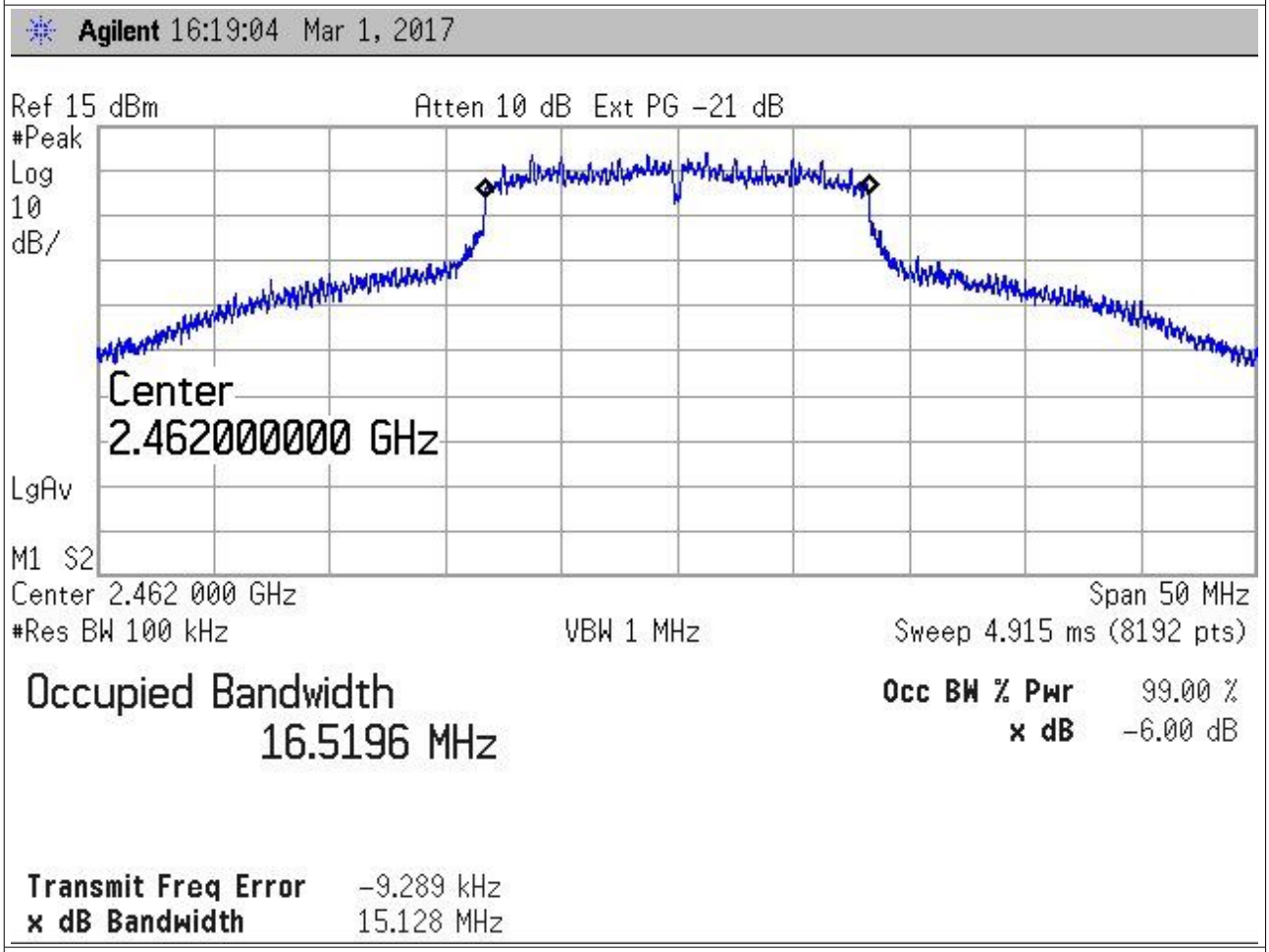
Note:

Channel 6; "11n" at 65Mbps
DTS BW (-6dB): 16.247 MHz
OBW (99%): 16.720 MHz



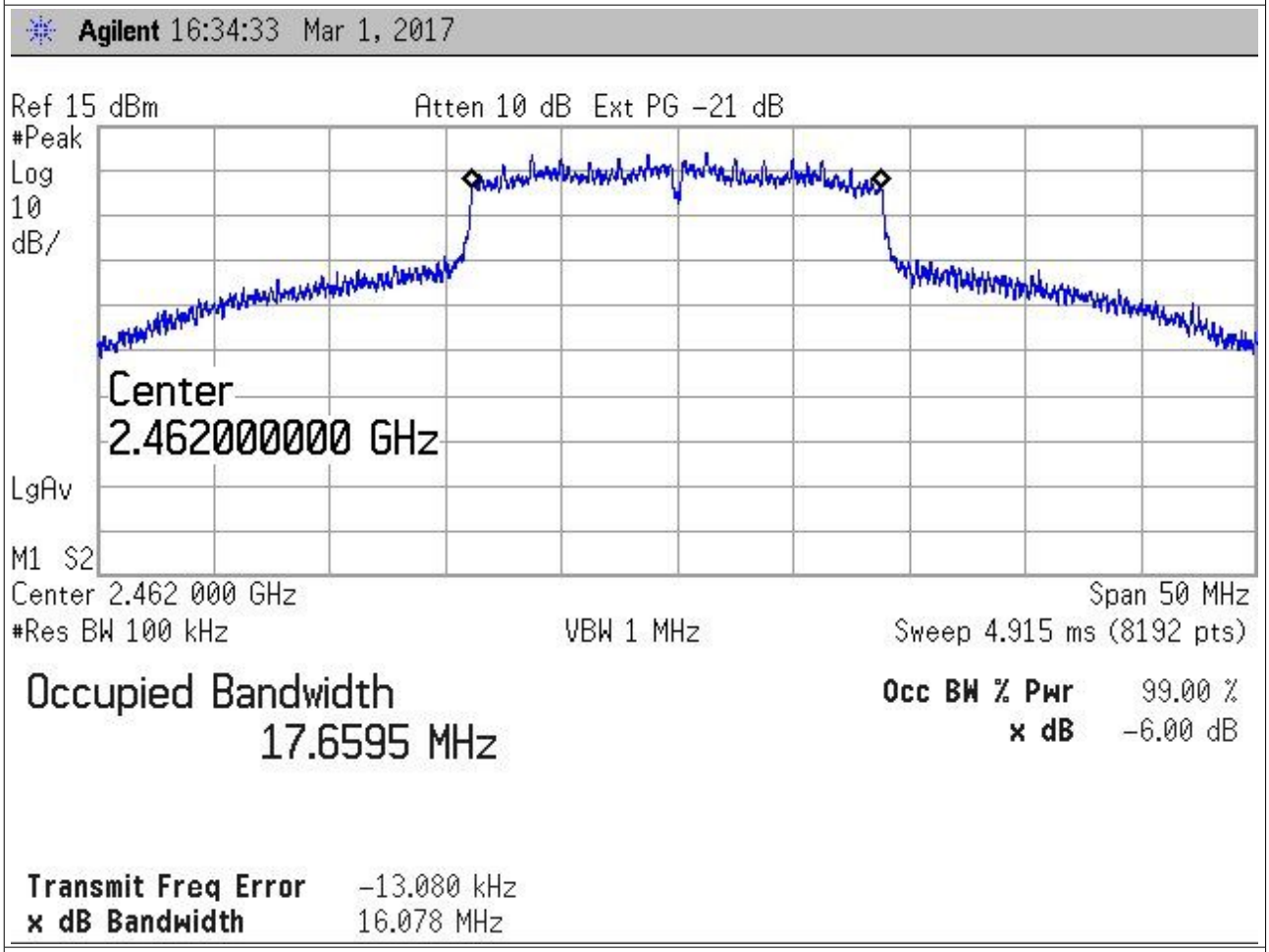
Note:

Channel 11; "11b" at 11Mbps
DTS BW (-6dB): 7.670 MHz
OBW (99%): 12.481 MHz



Note:

Channel 11; "11g" at 54Mbps
DTS BW (-6dB): 15.128 MHz
OBW (99%): 16.520 MHz



Note:

Channel 11; "11n" at 65Mbps
OBW (-6dB):
DTS BW (-6dB): 16.078 MHz
OBW (99%): 17.960 MHz

5. MAXIMUM PEAK OUTPUT POWER

Equipment shall meet the limits below.

For systems using digital modulation in the 2400 – 2483.5 MHz: 1 Watt (+30 dBm).

Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DATE
EMI Receiver	Agilent	E4440A	01/2018
Peak Power Meter	Agilent	U2021X	01/2018

Test procedure: APR01

The transmitter output is connected to a spectrum analyzer and the analyzer internal channel power integration is used to integrate the power over a bandwidth greater than or equal to the occupied bandwidth.

Test performed on low, middle and high channels and in the b, g and n protocols at maximum data rate for each protocol.

Results:

No non-compliance noted.

802.11b Mode, 11 Mbs

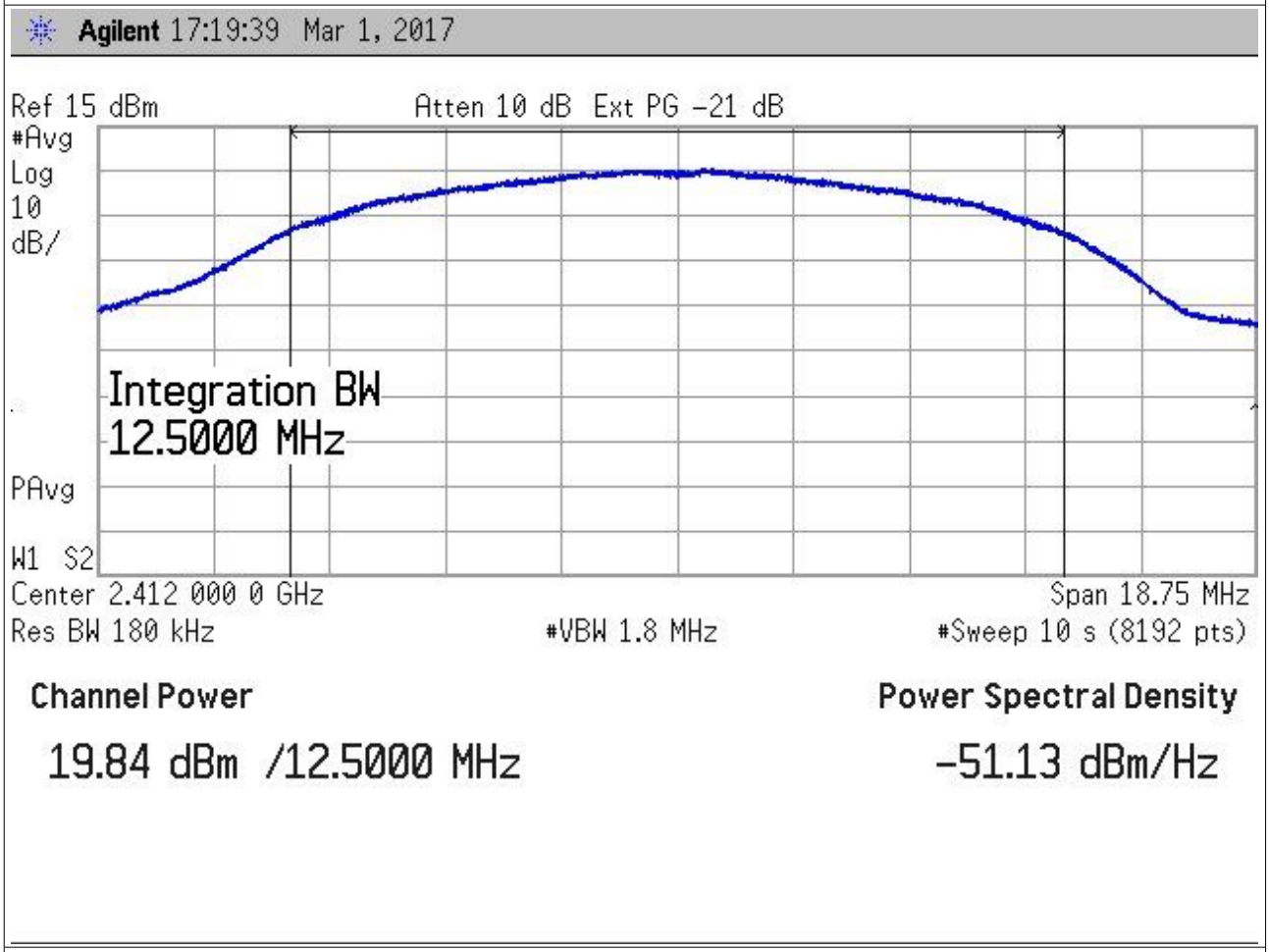
Channel	*Frequency (MHz)*	*Peak Power (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	19.84	30	-10.16
Mid	2437	18.48	30	-11.52
High	2462	18.32	30	-11.68

802.11g Mode, 54 Mbs

Channel	*Frequency (MHz)*	*Peak Power (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	19.1	30	-10.9
Mid	2437	18.04	30	-11.96
High	2462	16.88	30	-13.12

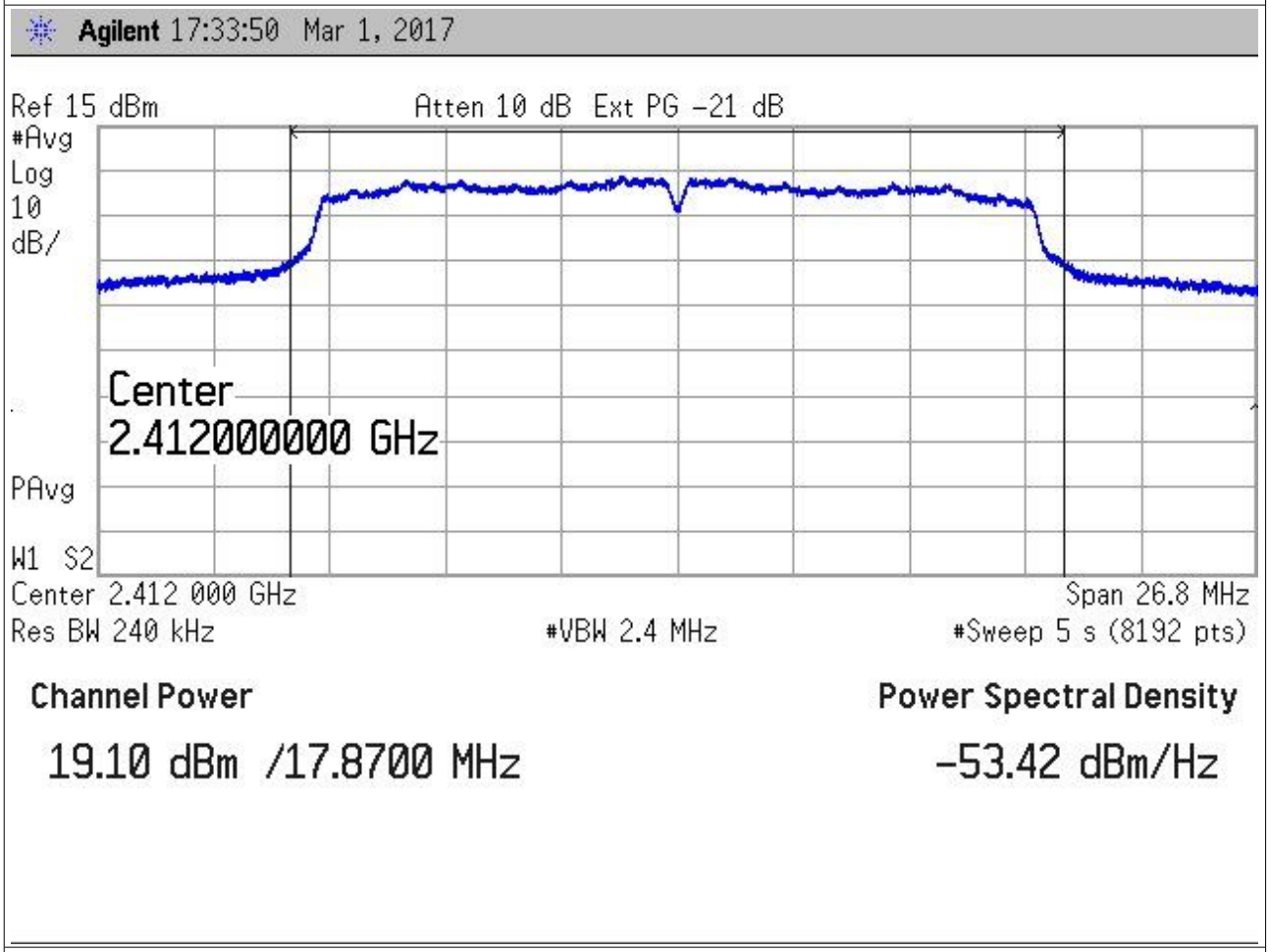
802.11n Mode, 65Mbs

Channel	*Frequency (MHz)*	*Peak Power (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	19.04	30	-10.96
Mid	2437	18.05	30	-11.95
High	2462	16.97	30	-13.03



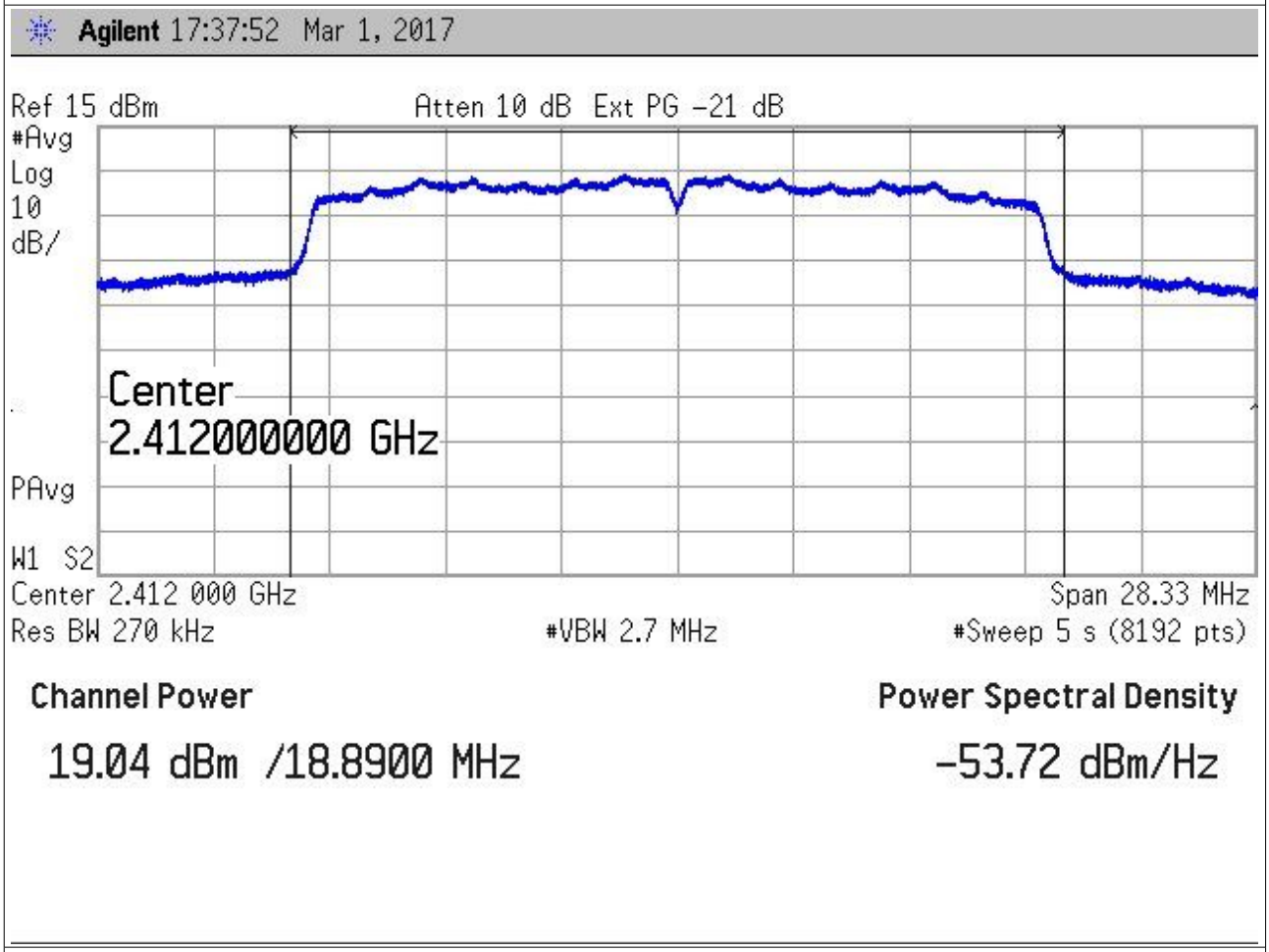
Note:

Channel 1; "11b" at 11Mbps
Channel Power: 19.84 dBm



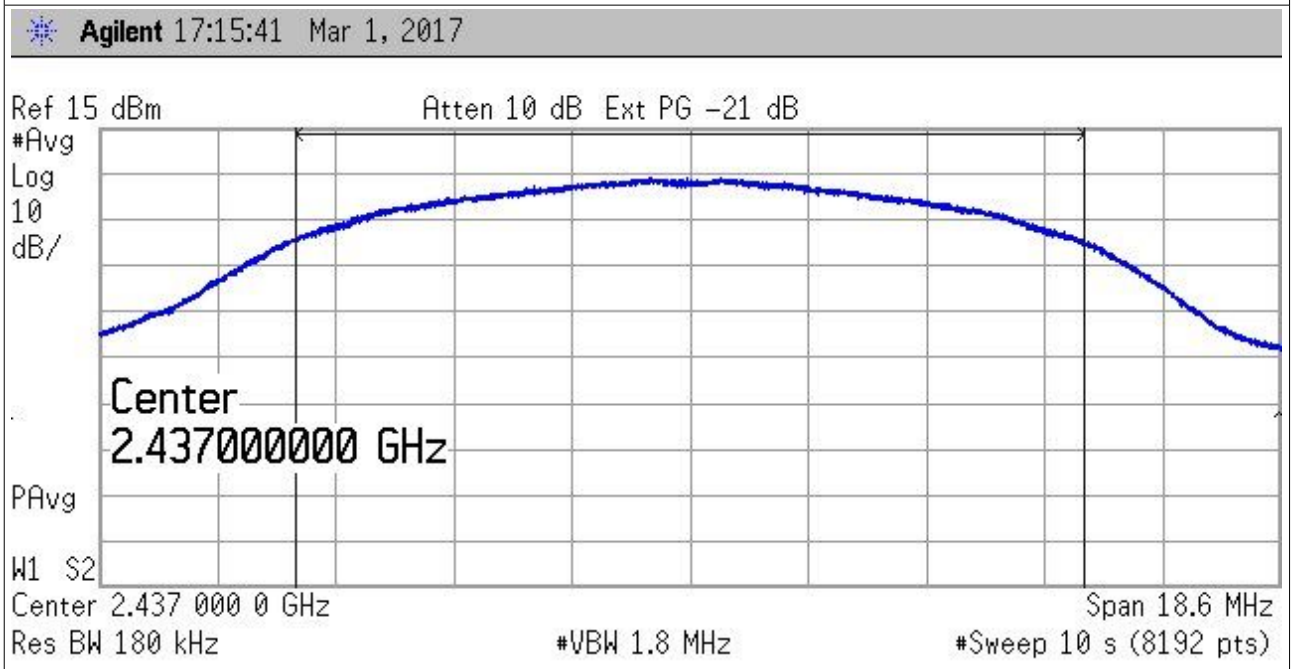
Note:

Channel 1; “11g” at 54Mbps
Channel Power: 19.10 dBm



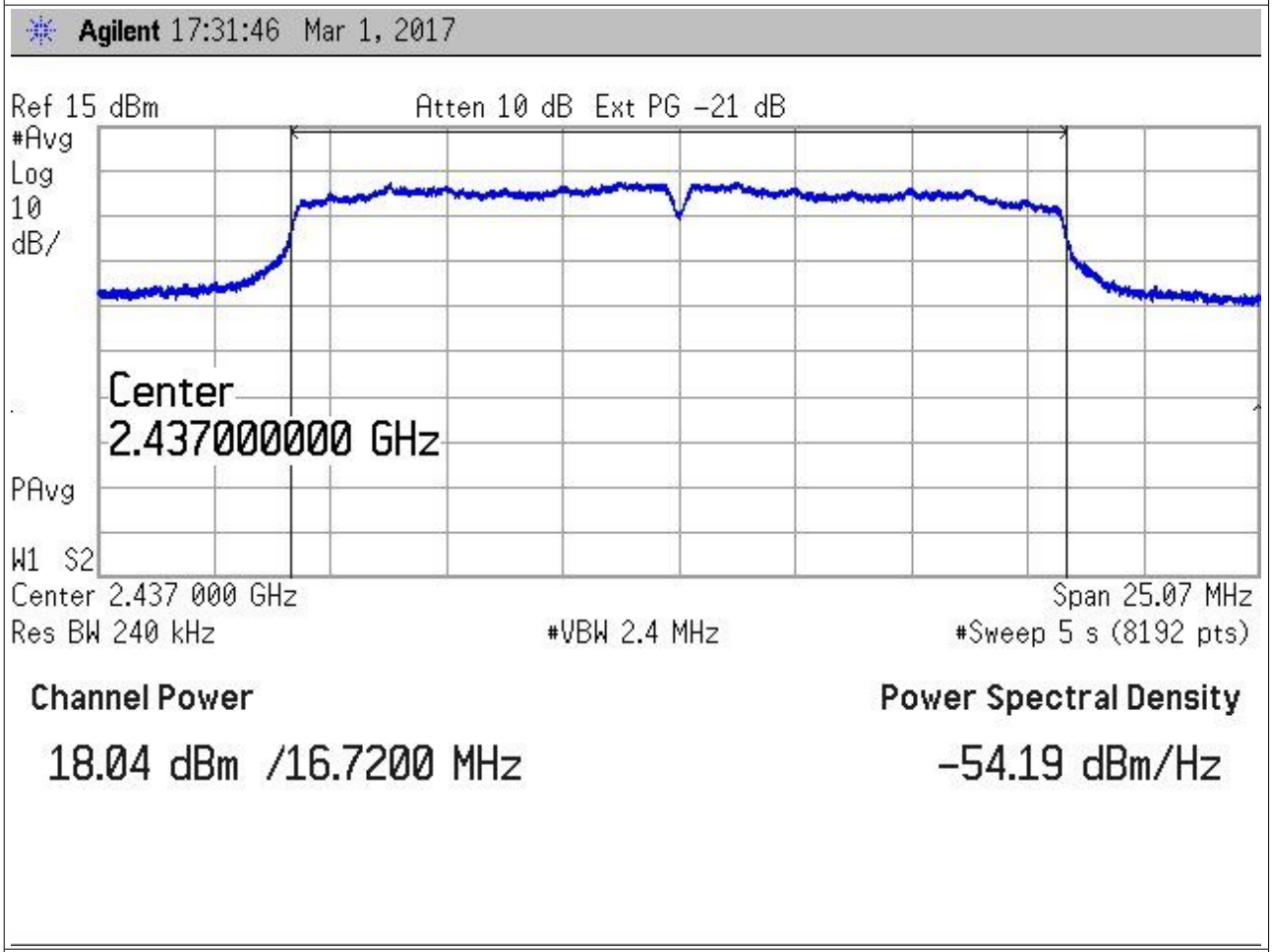
Note:

Channel 1; “11n” at 65Mbps
Channel Power: 19.04 dBm



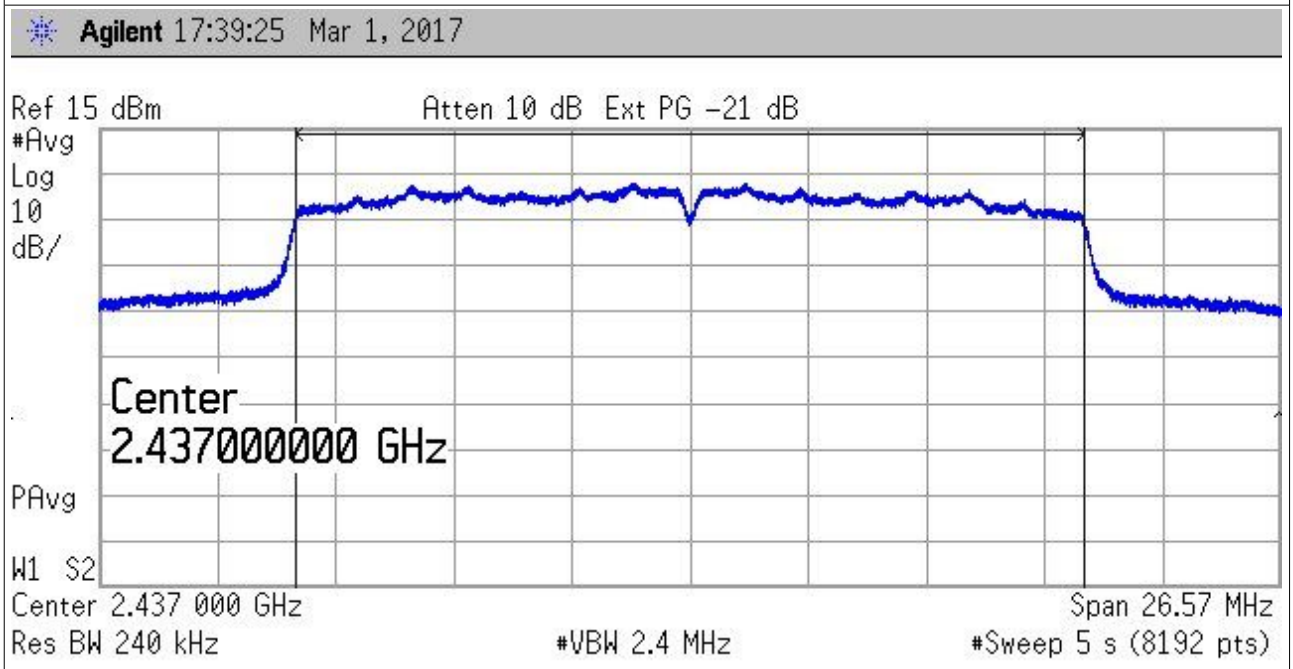
Note:

Channel 6; "11b" at 11Mbps
Channel Power: 18.48 dBm



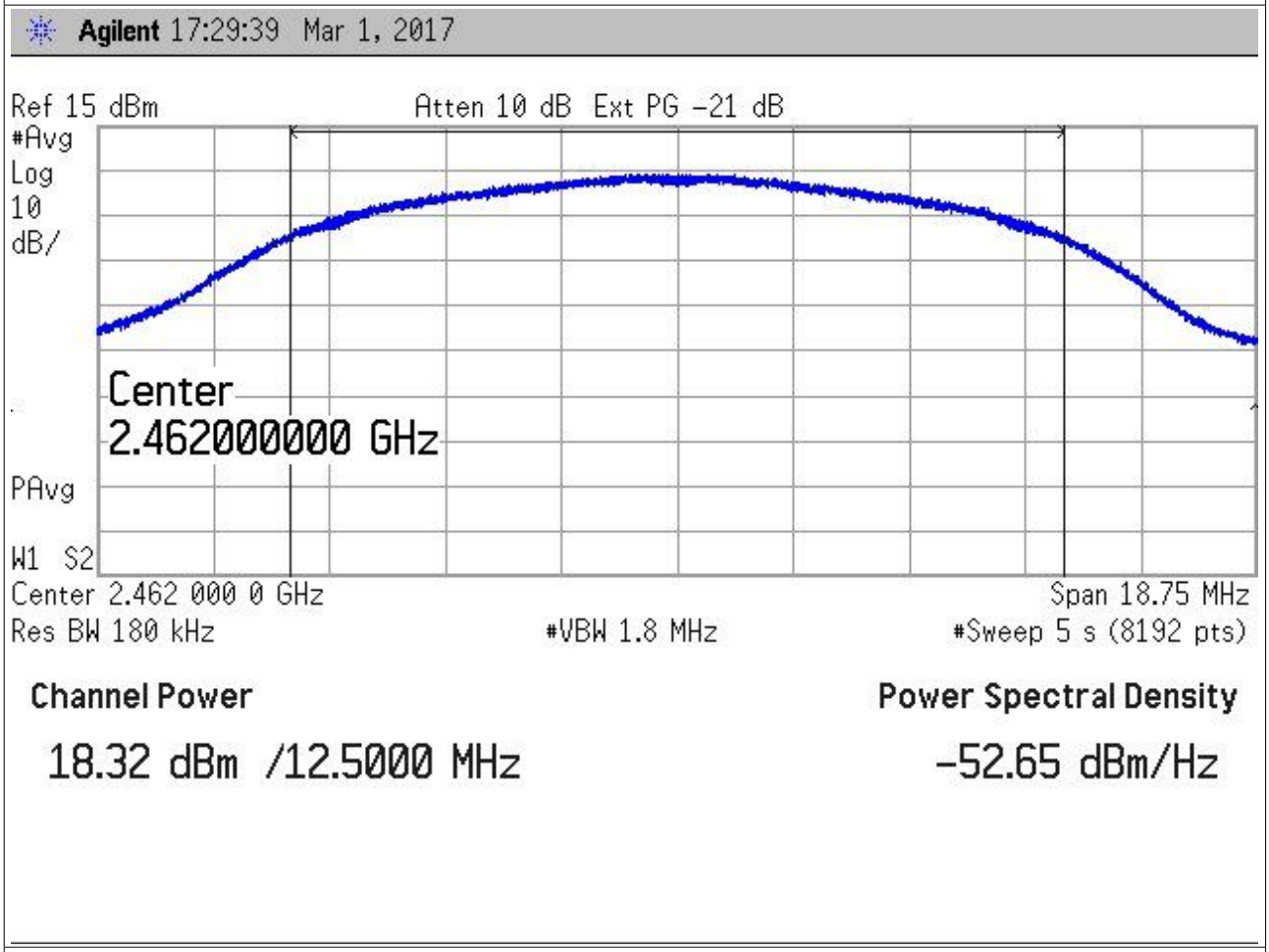
Note:

Channel 6; "11g" at 54Mbps
Channel Power: 18.04 dBm



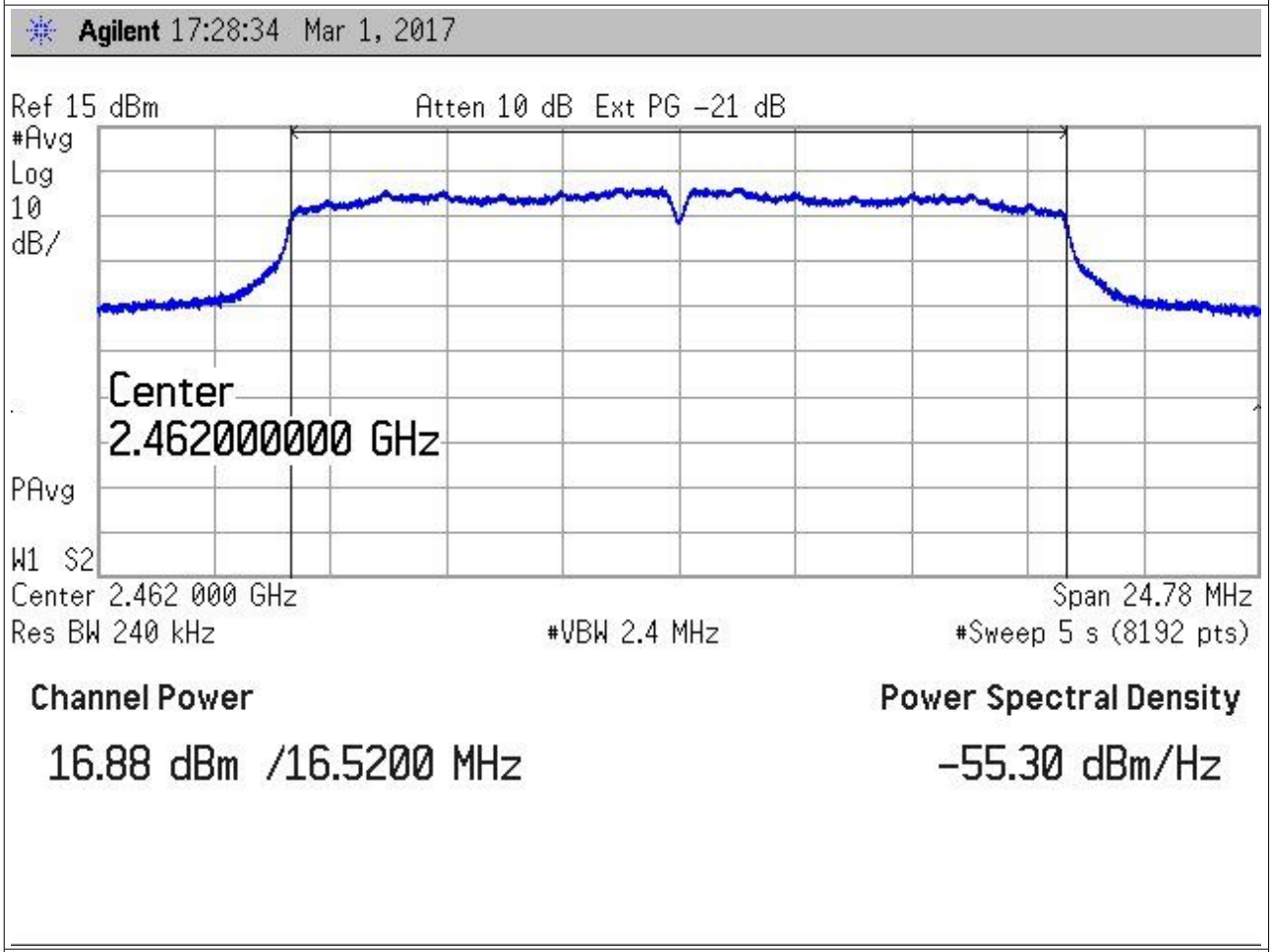
Note:

Channel 6; "11n" at 65Mbps
Channel Power: 18.05 dBm



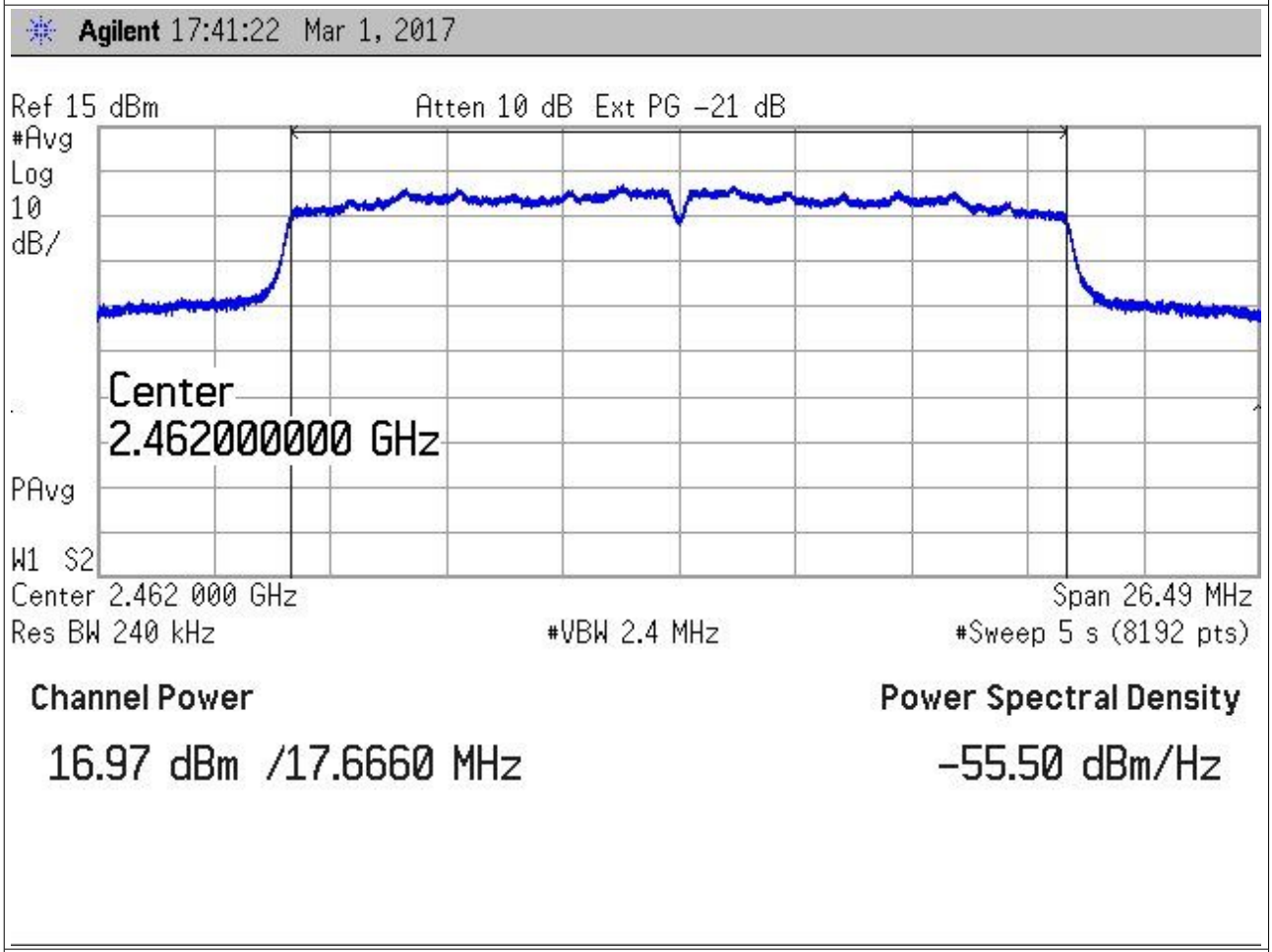
Note:

Channel 11; “11b” at 11Mbps
Channel Power: 18.32 dBm



Note:

Channel 11; "11g" at 54Mbps
Channel Power: 16.88 dBm



Note:

Channel 11; “11n” at 65Mbps
Channel Power: 16.97 dBm

6. Band Edge and Conducted Spurious Emissions

Equipment shall meet the limits below .

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Equipment

Equipment	Manufacturer	Model	Cal. Date
EMI Receiver	Agilent	E4440A	01/2018

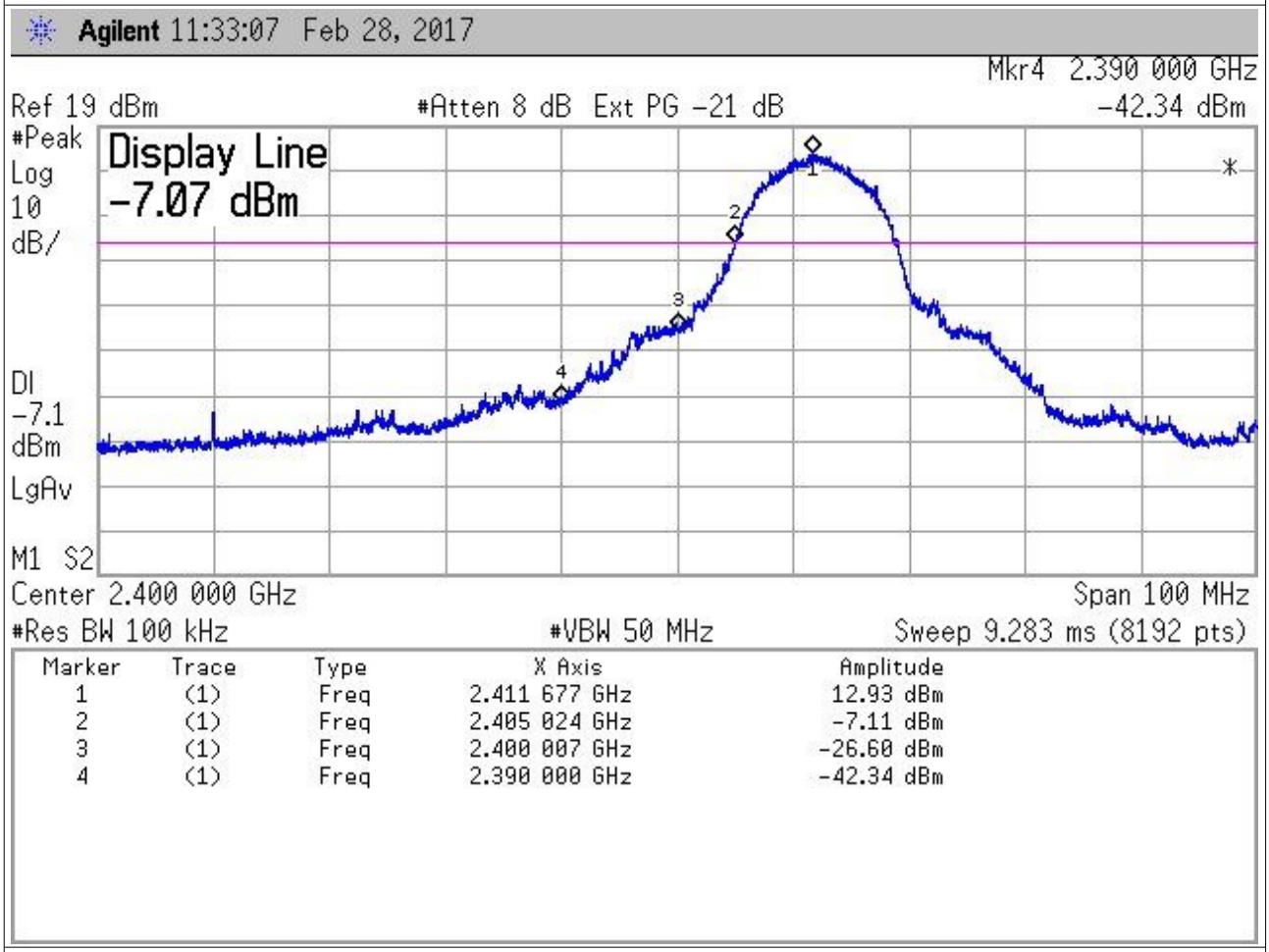
Test procedure: APR01

Test performed on low, middle and high channels and in the b,g,n protocols at maximum data rate for each protocol.

Results:

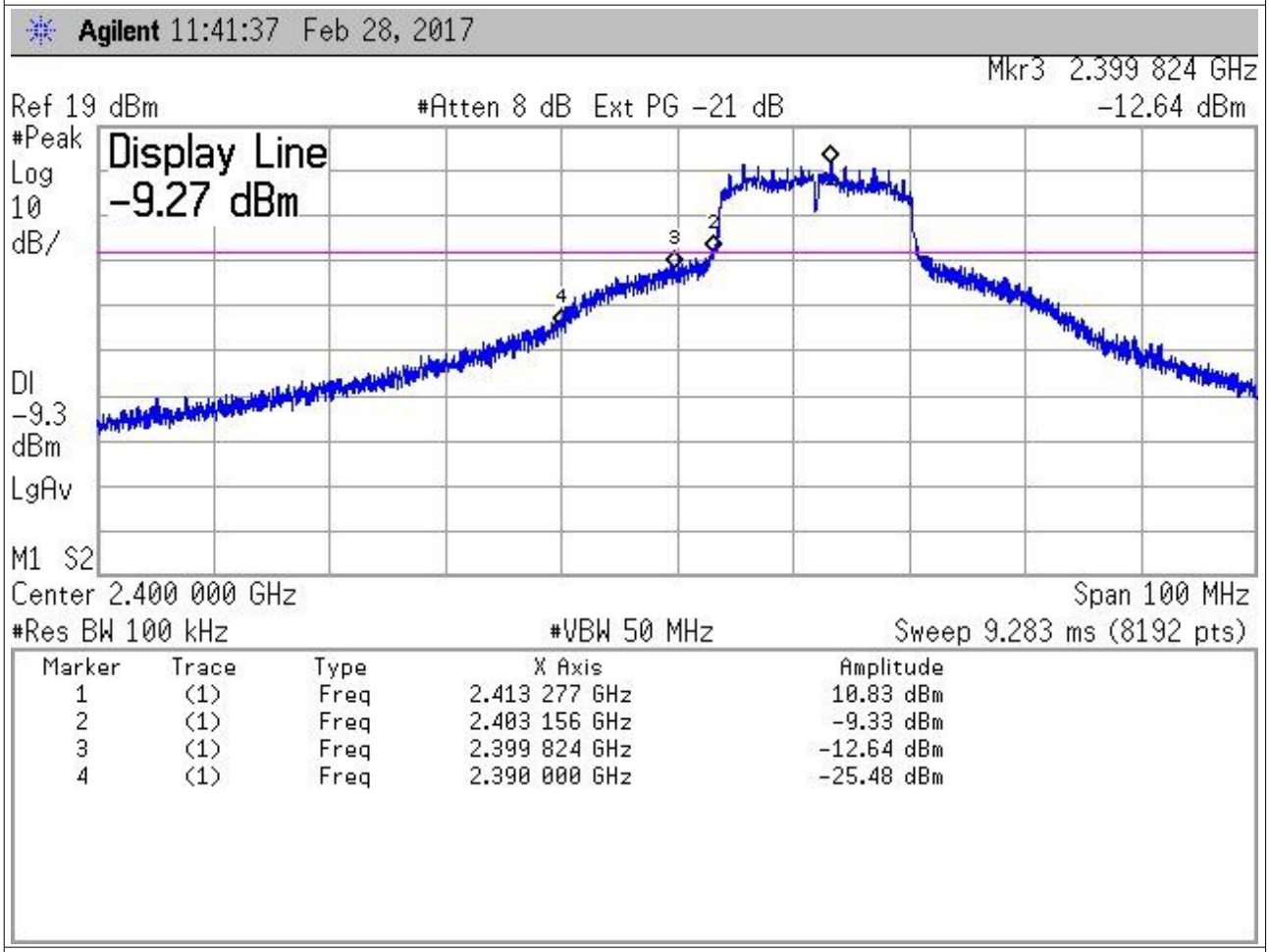
No non-compliance noted

The following figures show the results.



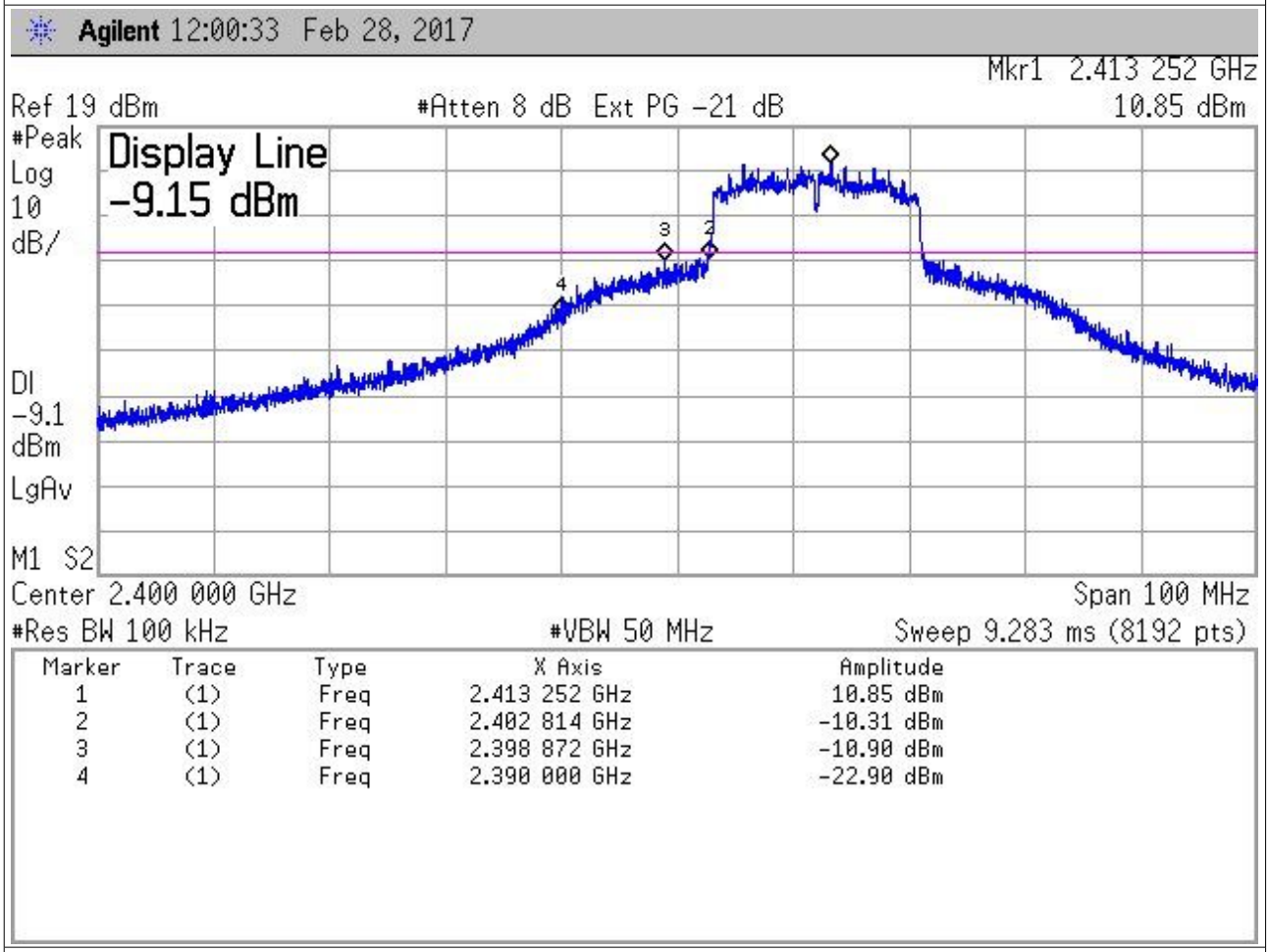
Note:

Channel 1; “11b” at 11Mbps



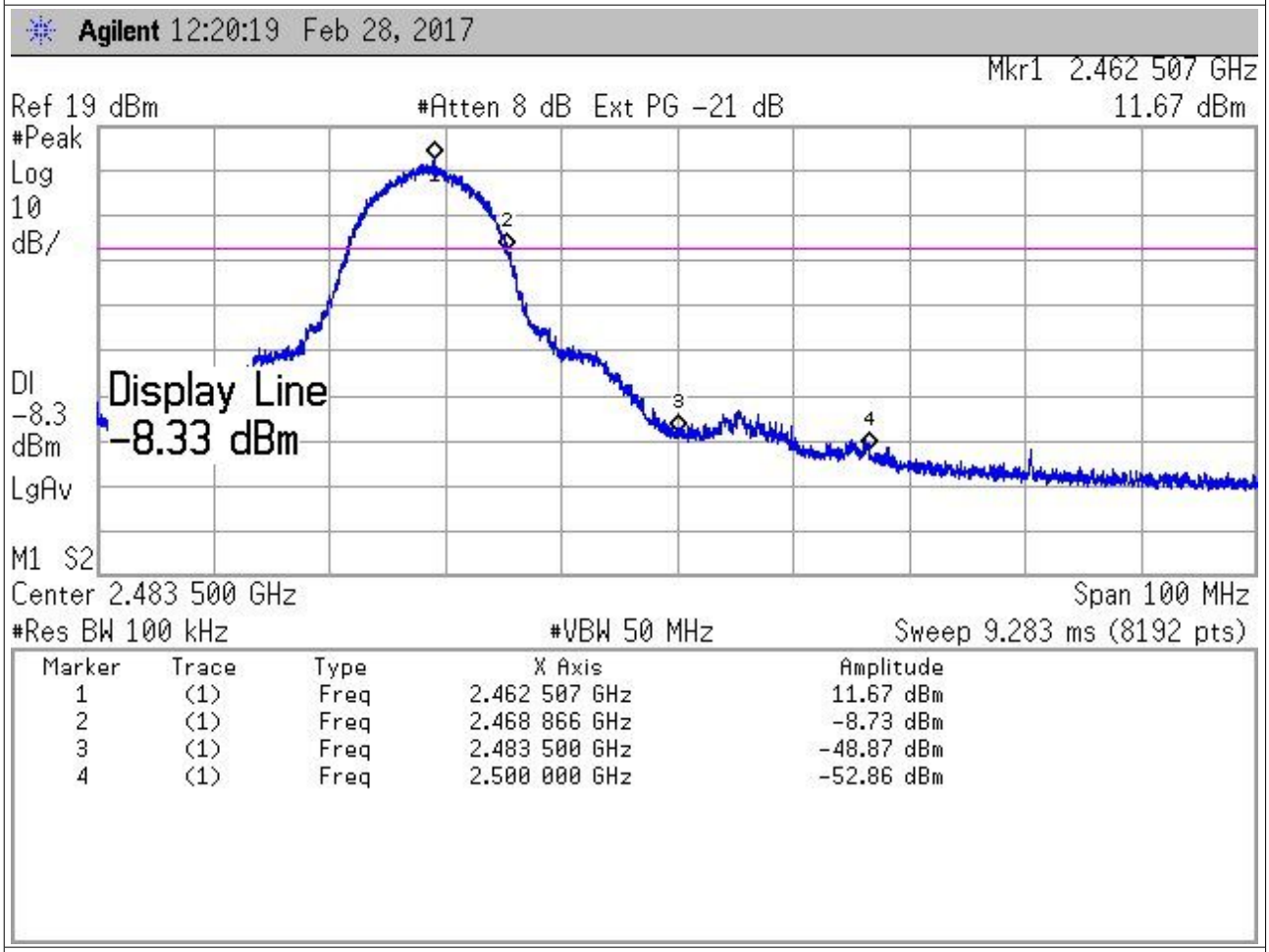
Note:

Channel 1; “11g” at 54Mbps



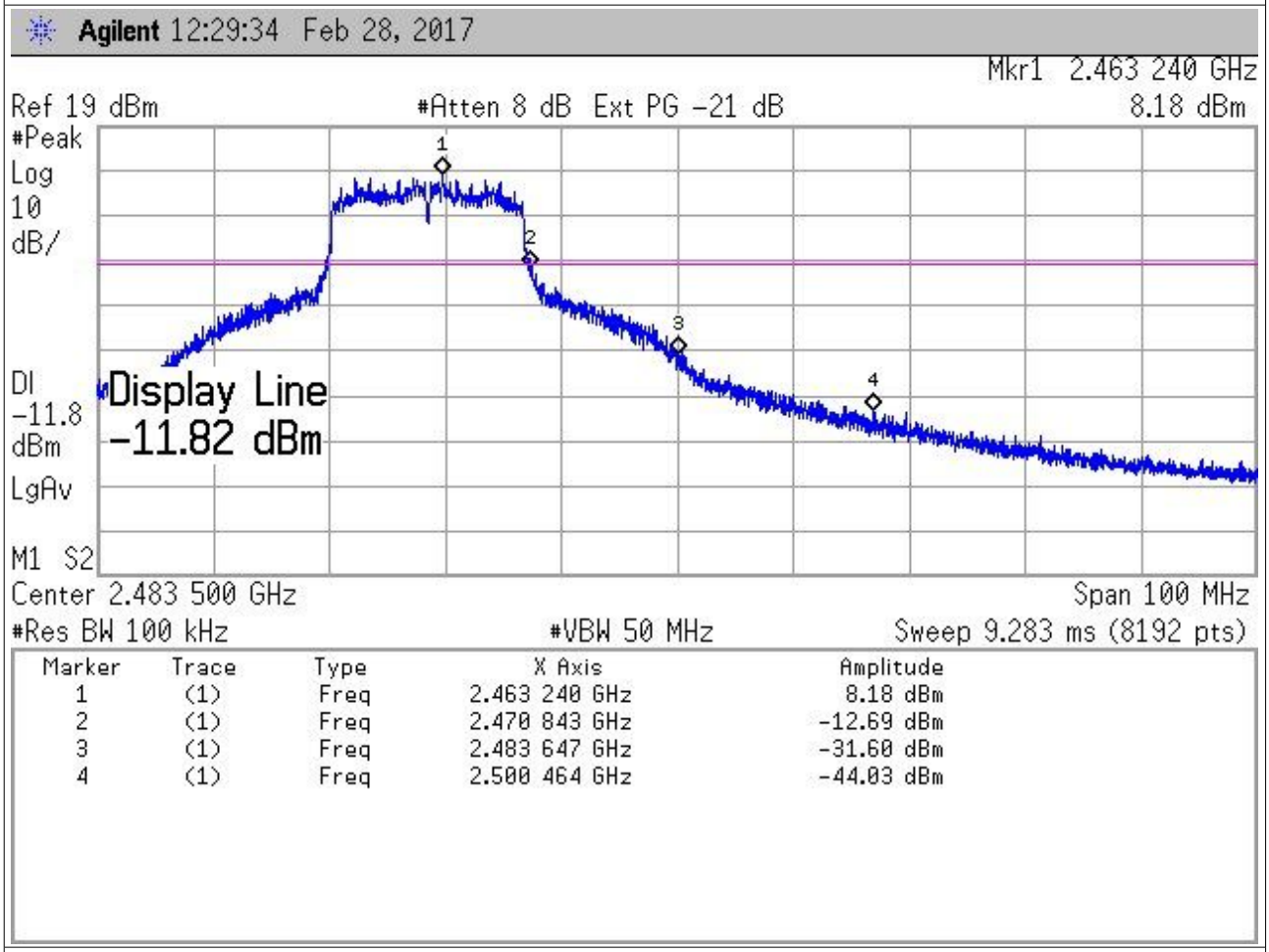
Note:

Channel 1; “11n” at 65Mbps



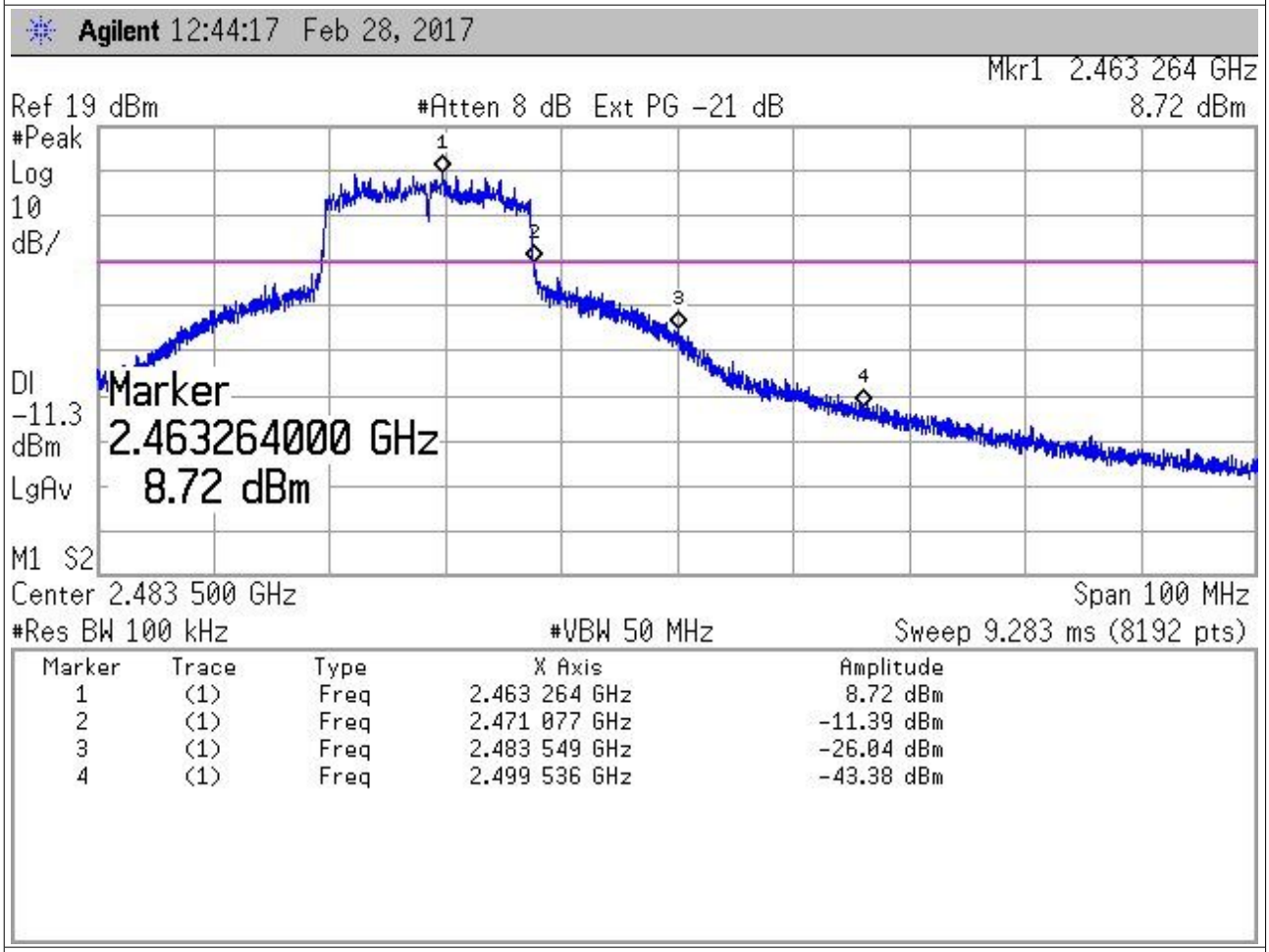
Note:

Channel 11; “11b” at 11Mbps



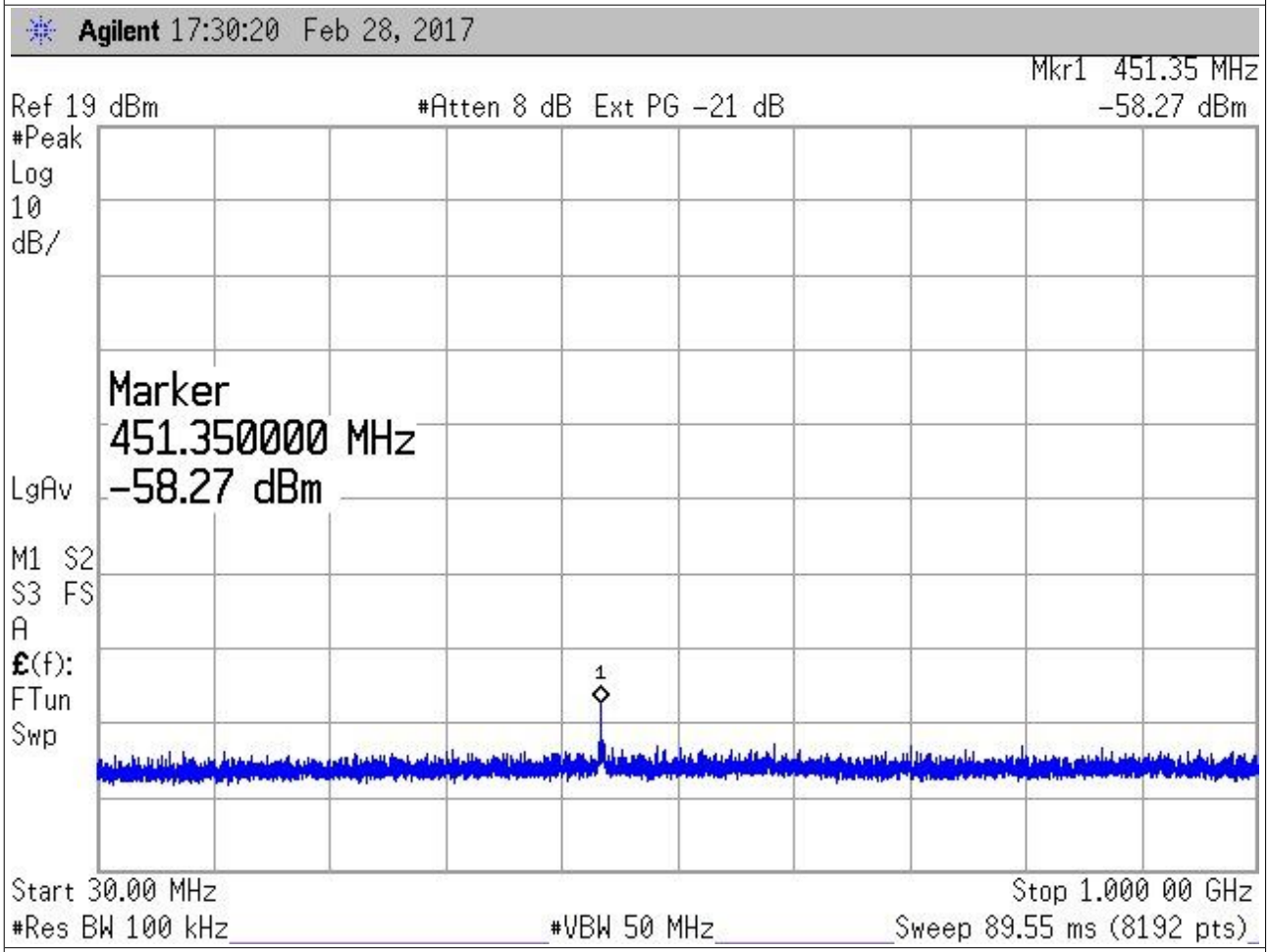
Note:

Channel 11; “11g” at 54Mbps



Note:

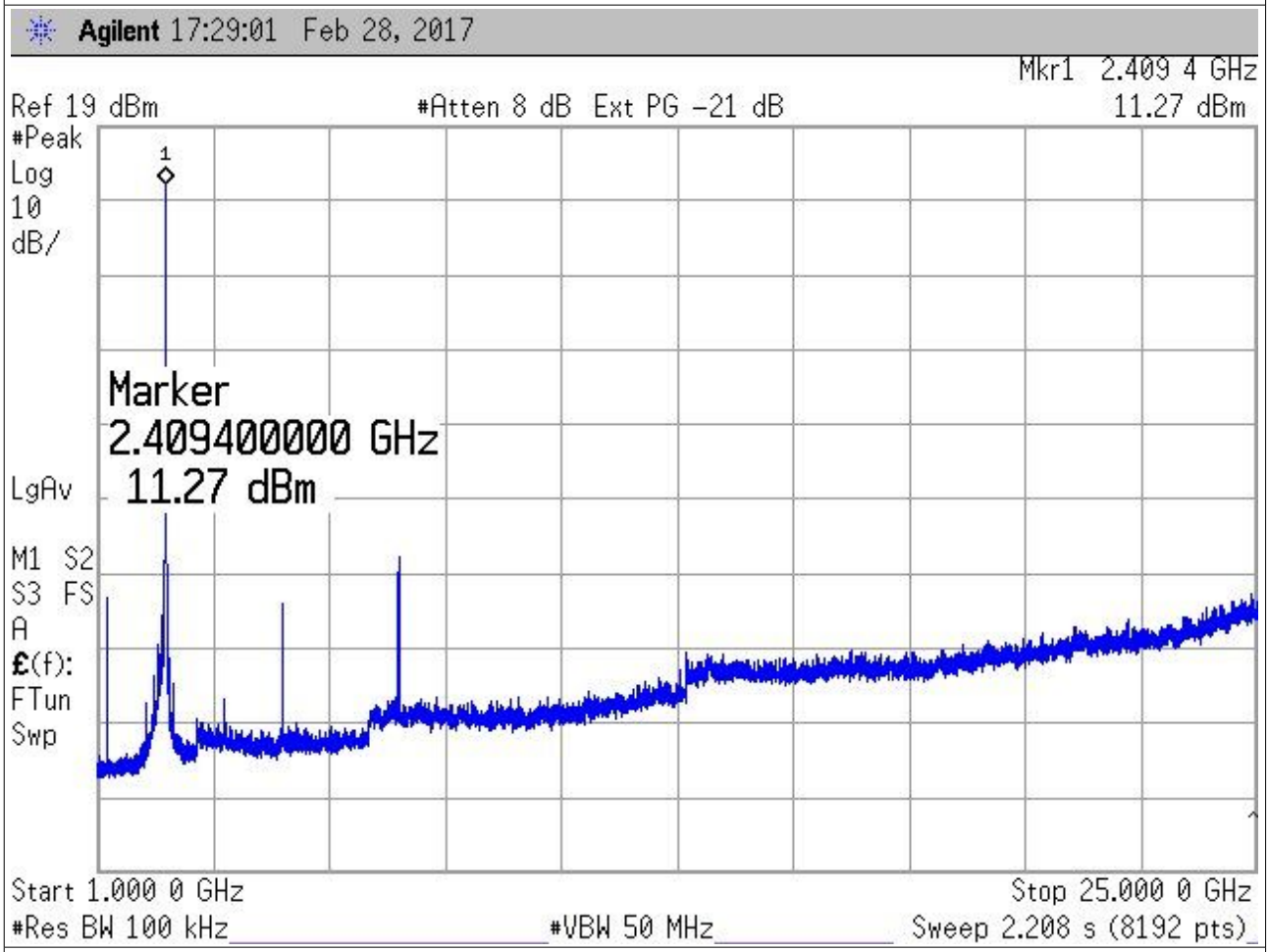
Channel 11; “11n” at 65Mbps



Note:

Channel 1; "11b" at 11Mbps

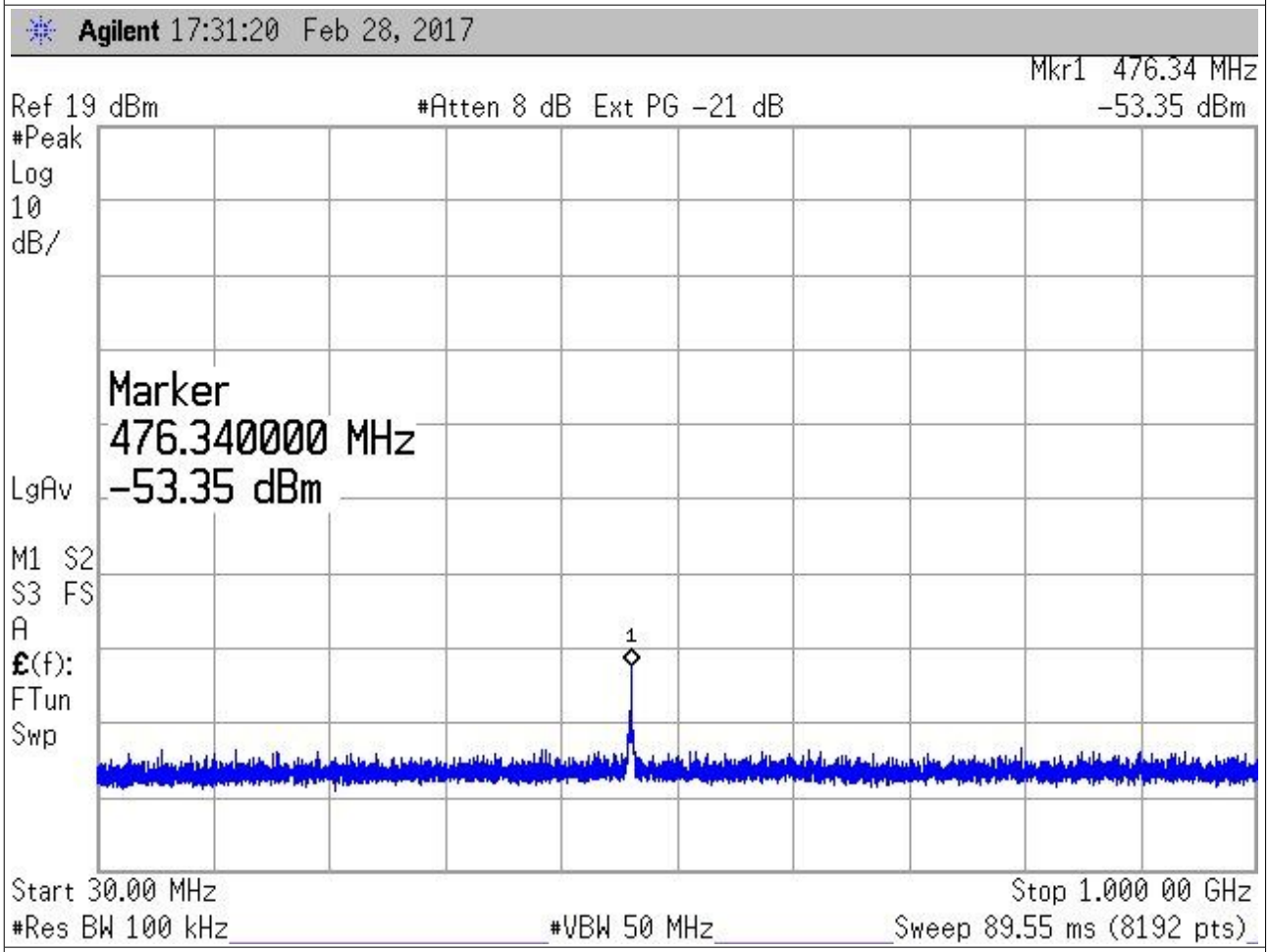
Range: 30 – 1000 MHz



Note:

Channel 1; "11b" at 11Mbps

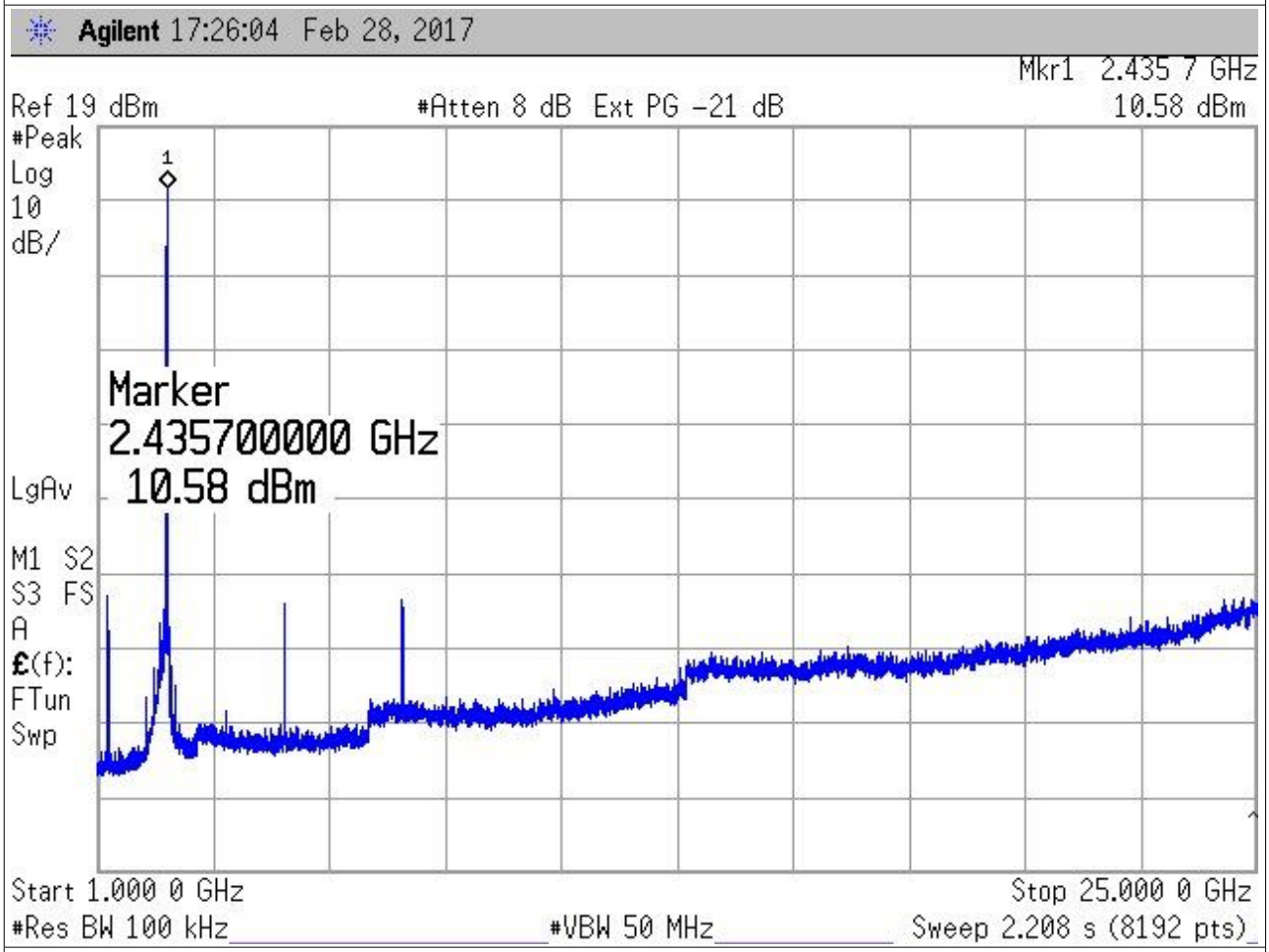
Range: 1 – 25 GHz



Note:

Channel 6; "11b" at 11Mbps

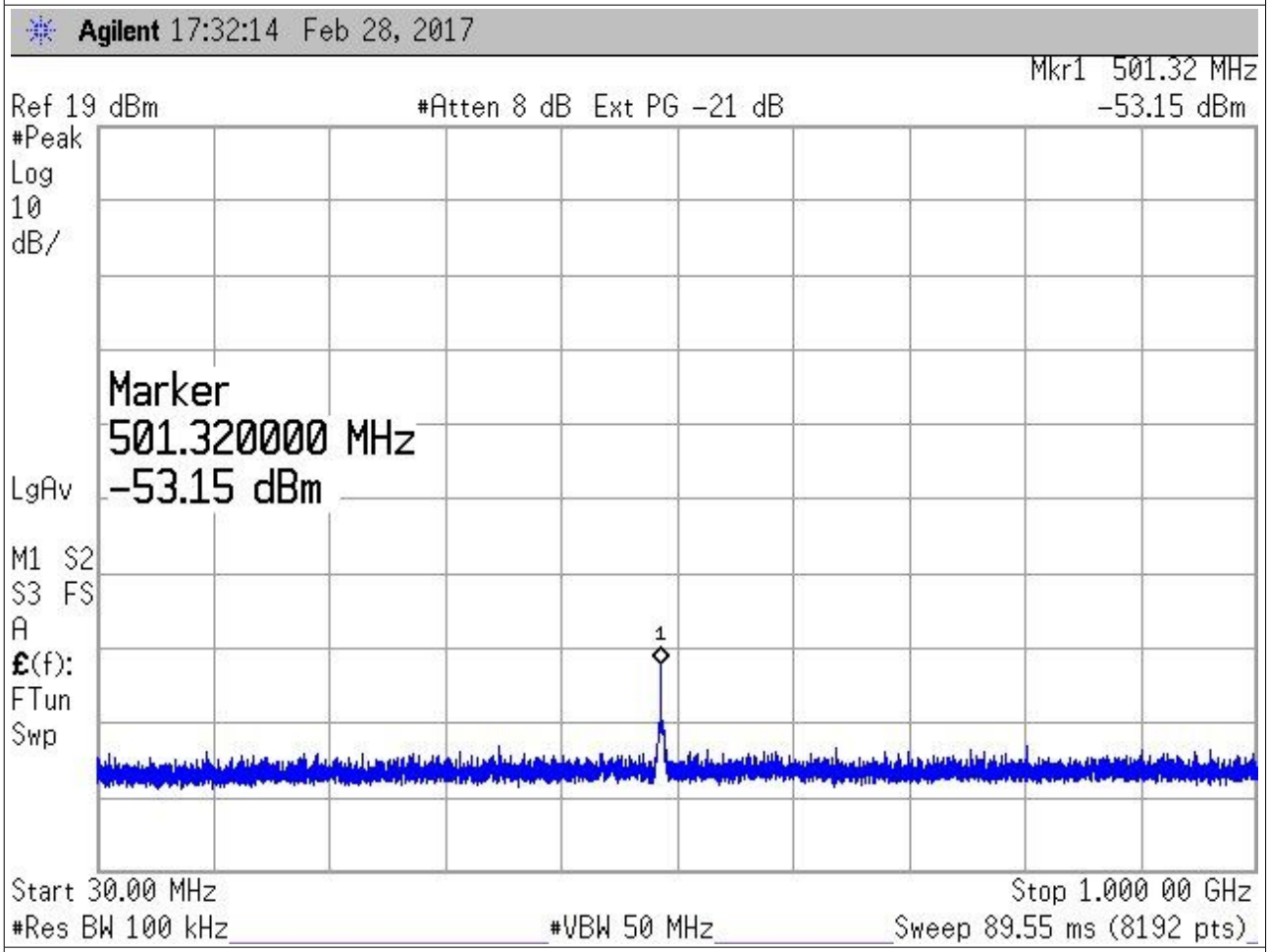
Range: 30 – 1000 MHz



Note:

Channel 6; "11b" at 11Mbps

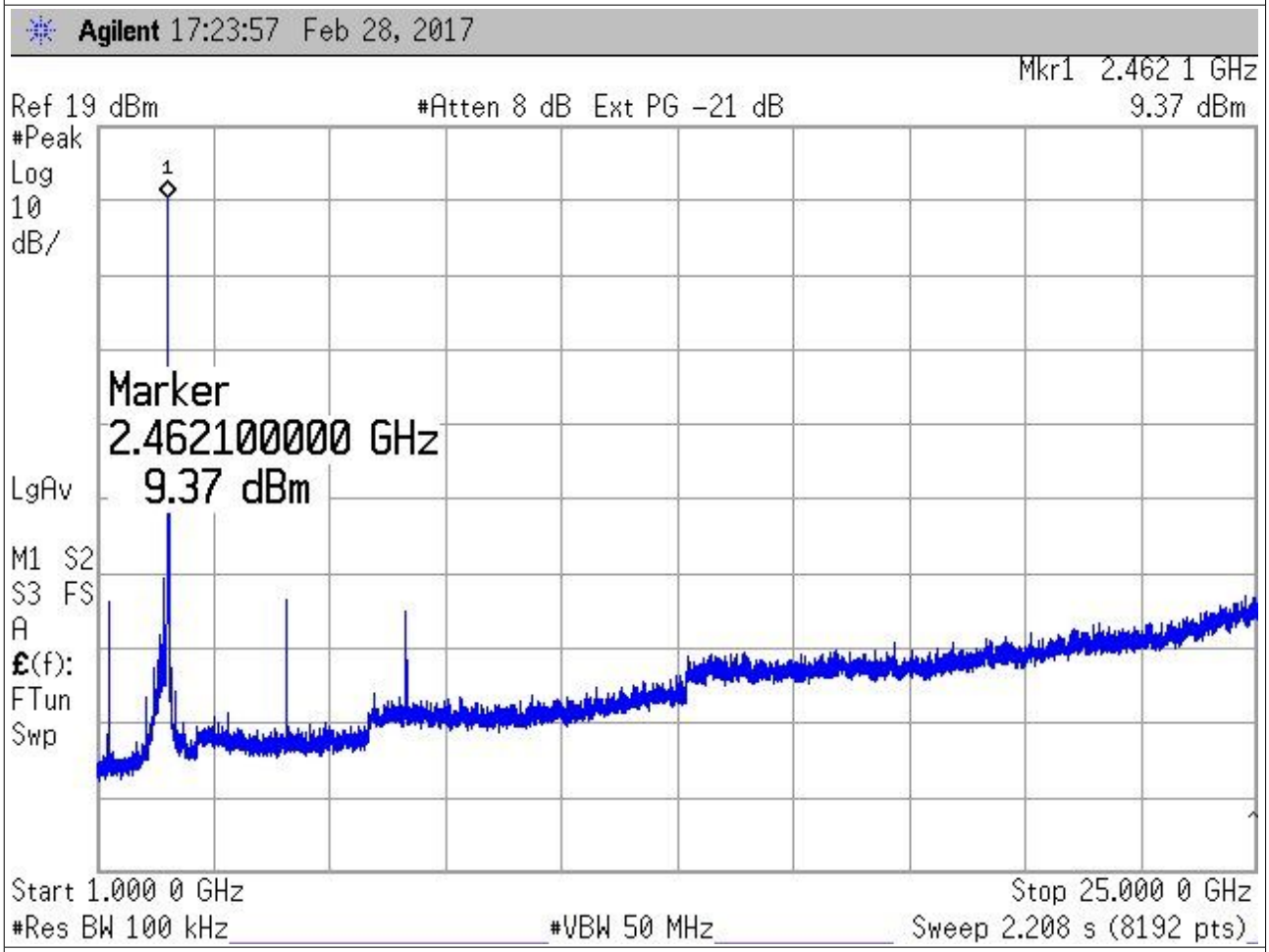
Range: 1 – 25 GHz



Note:

Channel 11; "11b" at 11Mbps

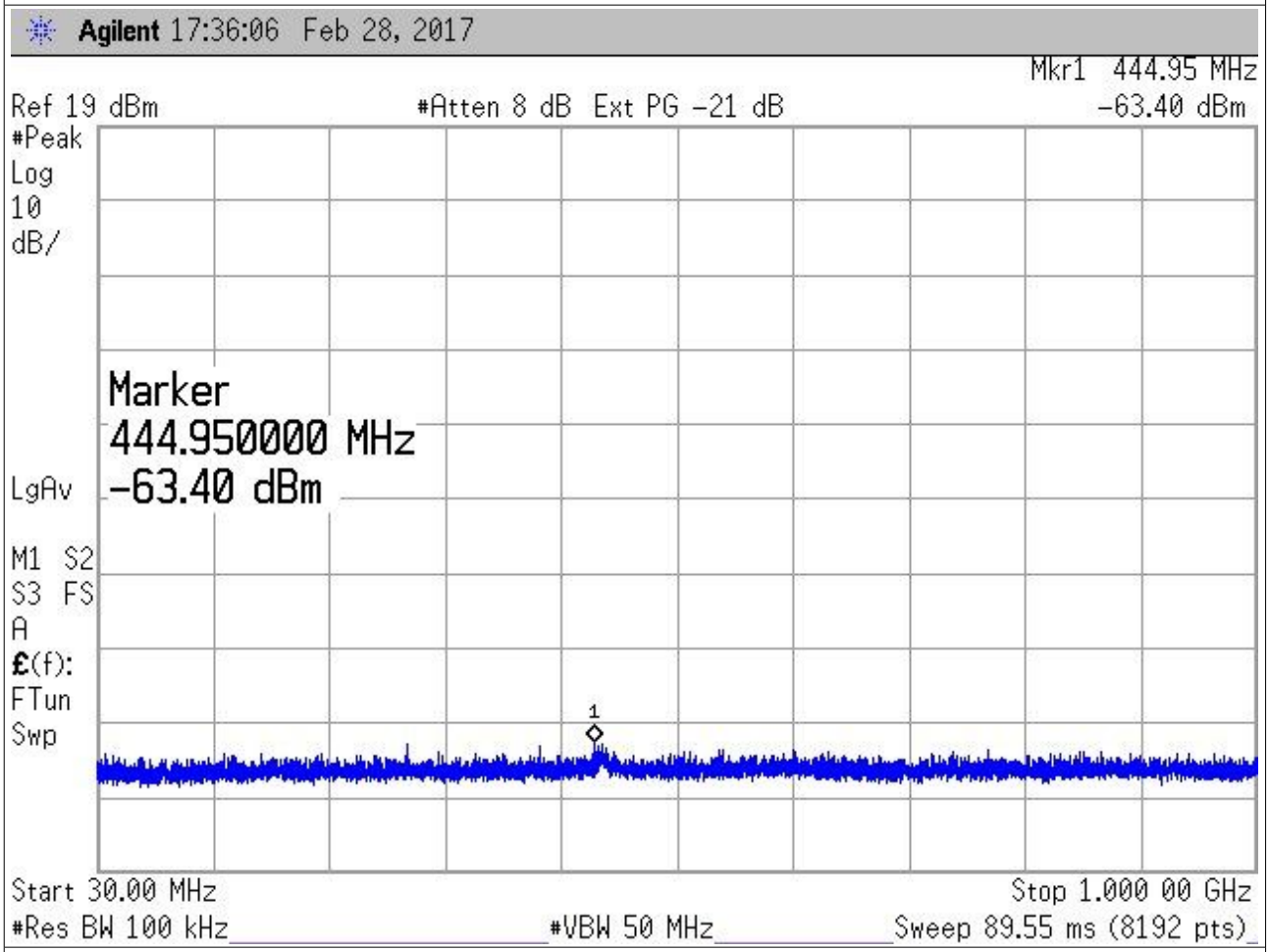
Range: 30 – 1000 MHz



Note:

Channel 11; "11b" at 11Mbps

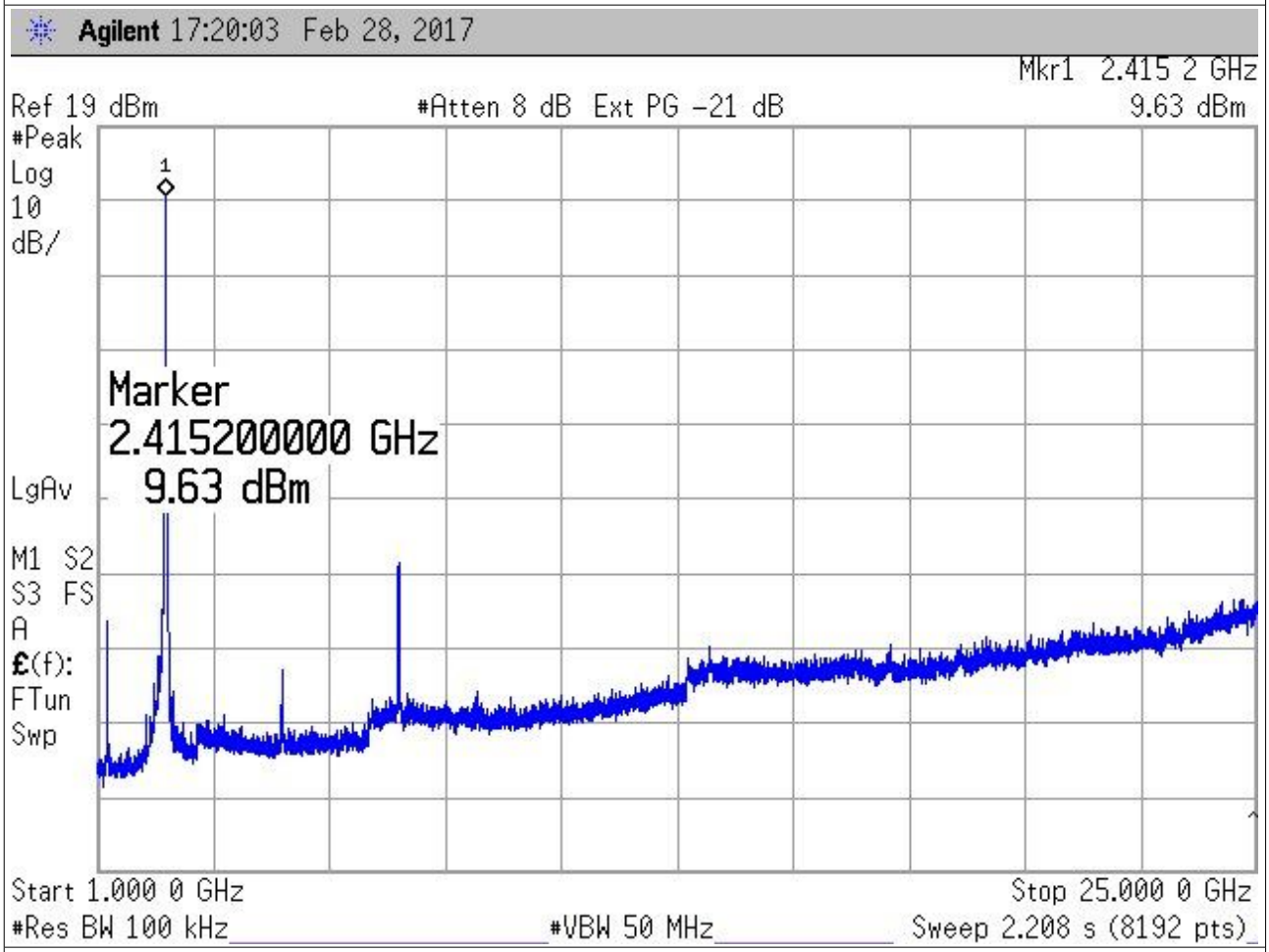
Range: 1 – 25 GHz



Note:

Channel 1; "11g" at 54Mbps

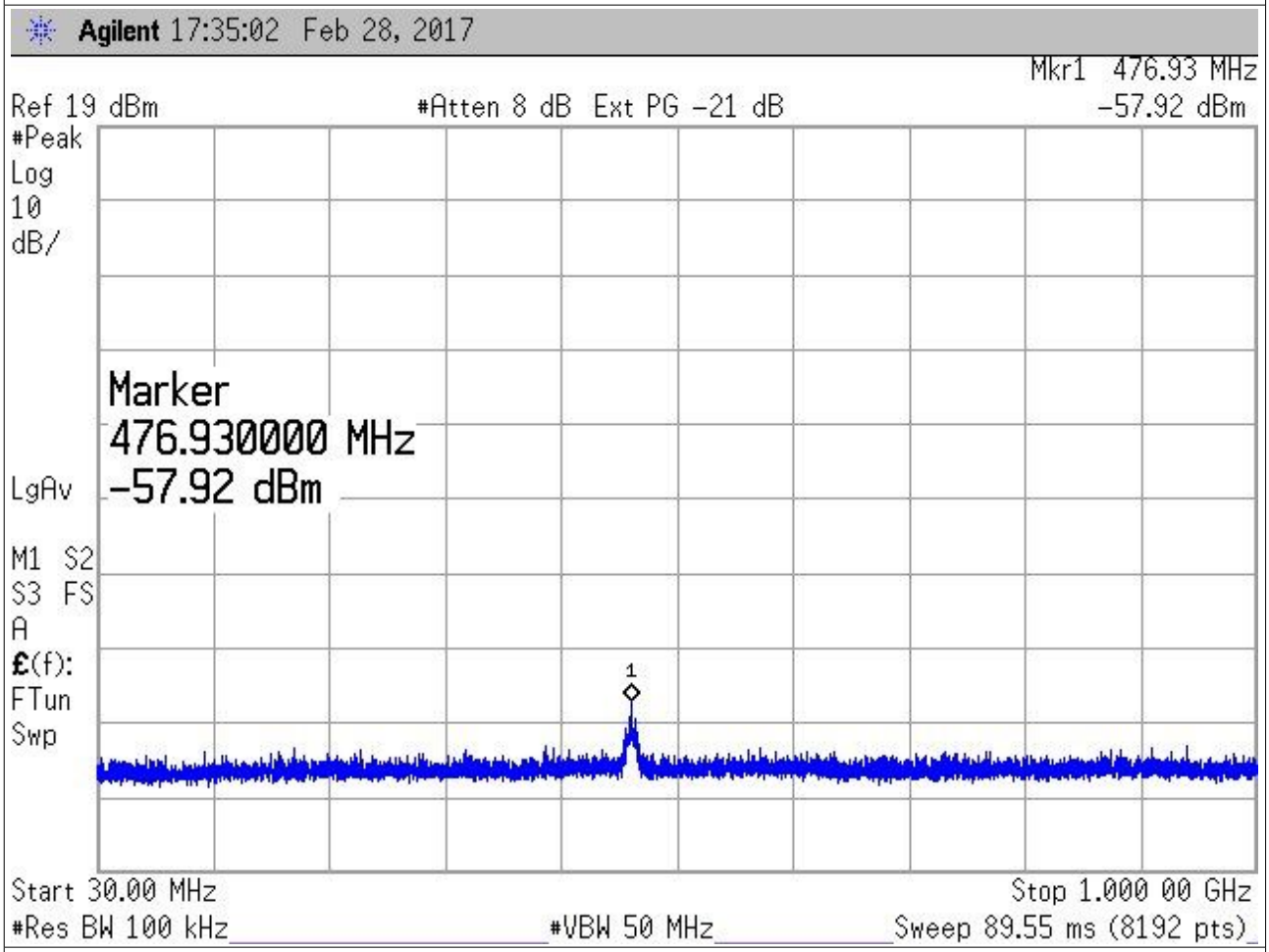
Range: 30 – 1000 MHz



Note:

Channel 1; "11g" at 54Mbps

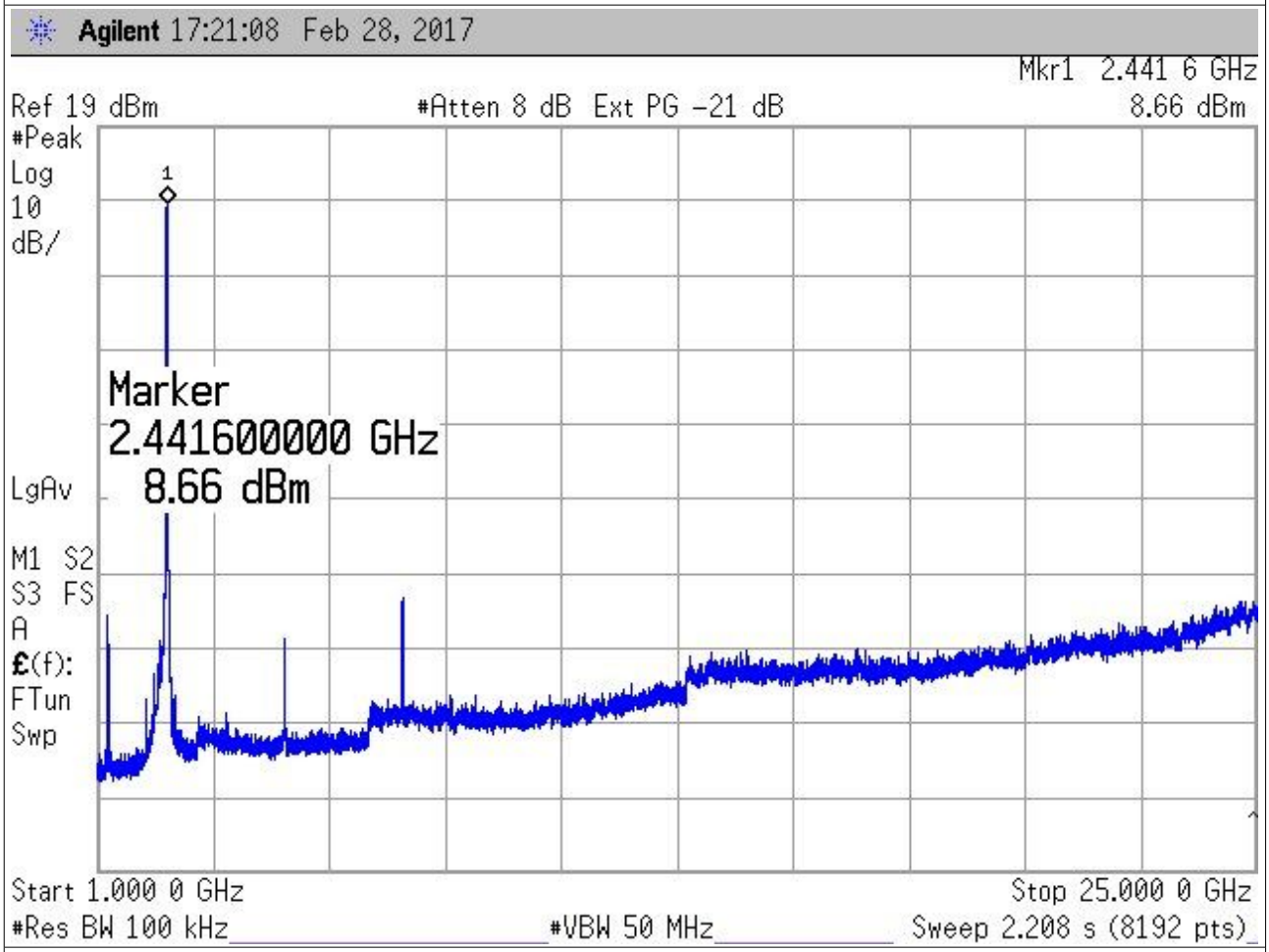
Range: 1 – 25 GHz



Note:

Channel 6; "11g" at 54Mbps

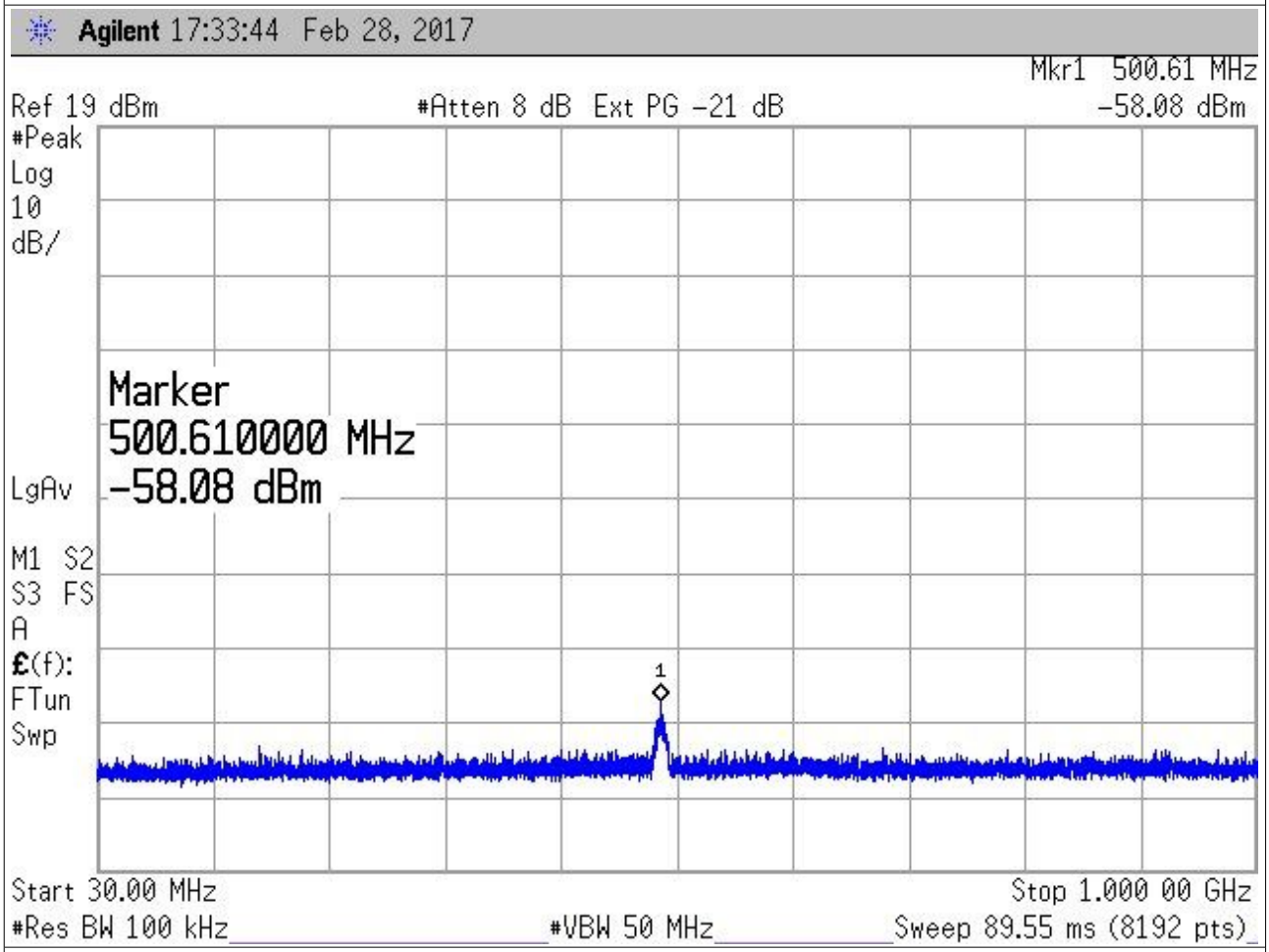
Range: 30 – 1000 MHz



Note:

Channel 6; "11g" at 54Mbps

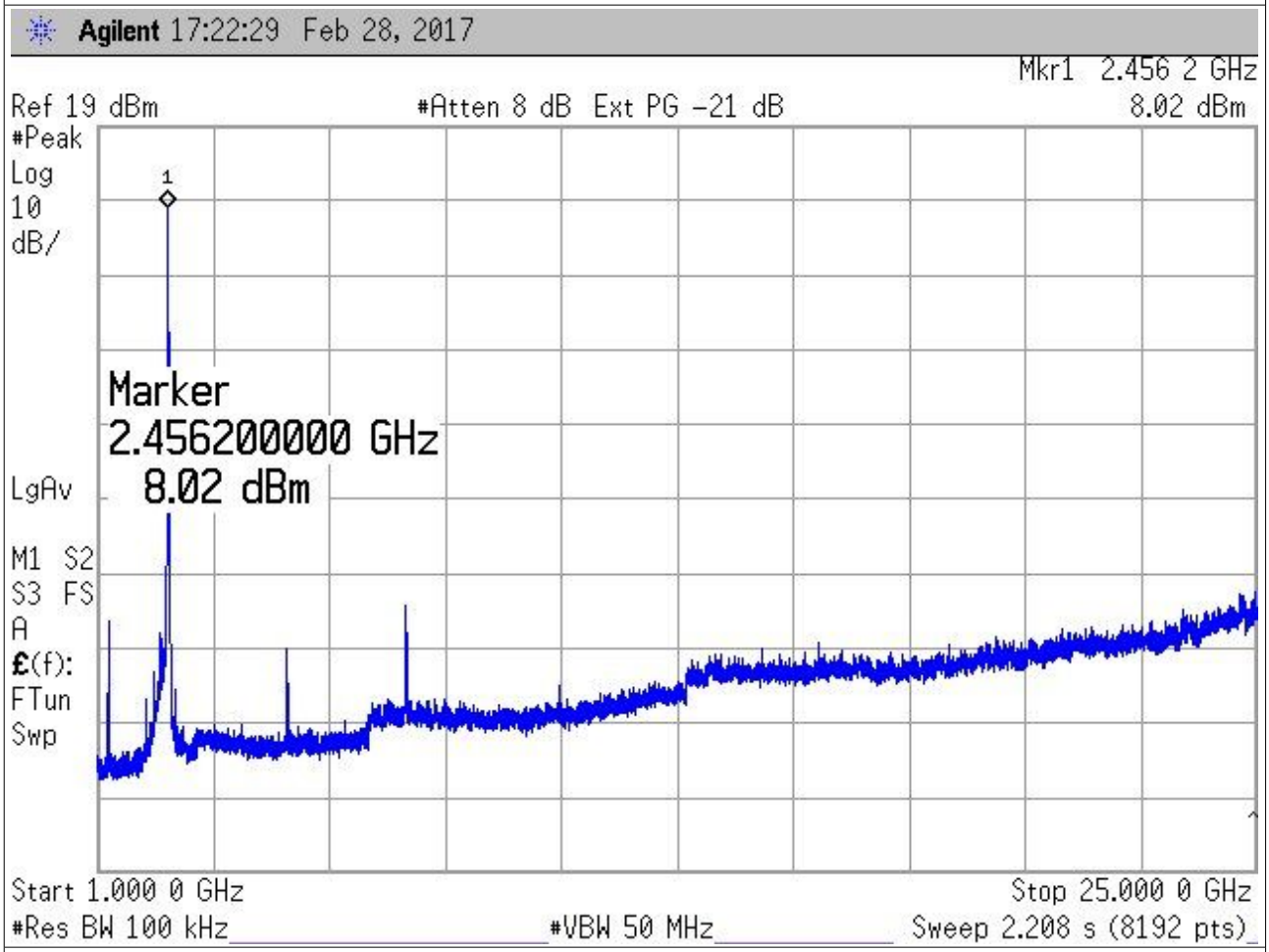
Range: 1 – 25 GHz



Note:

Channel 11; "11g" at 54Mbps

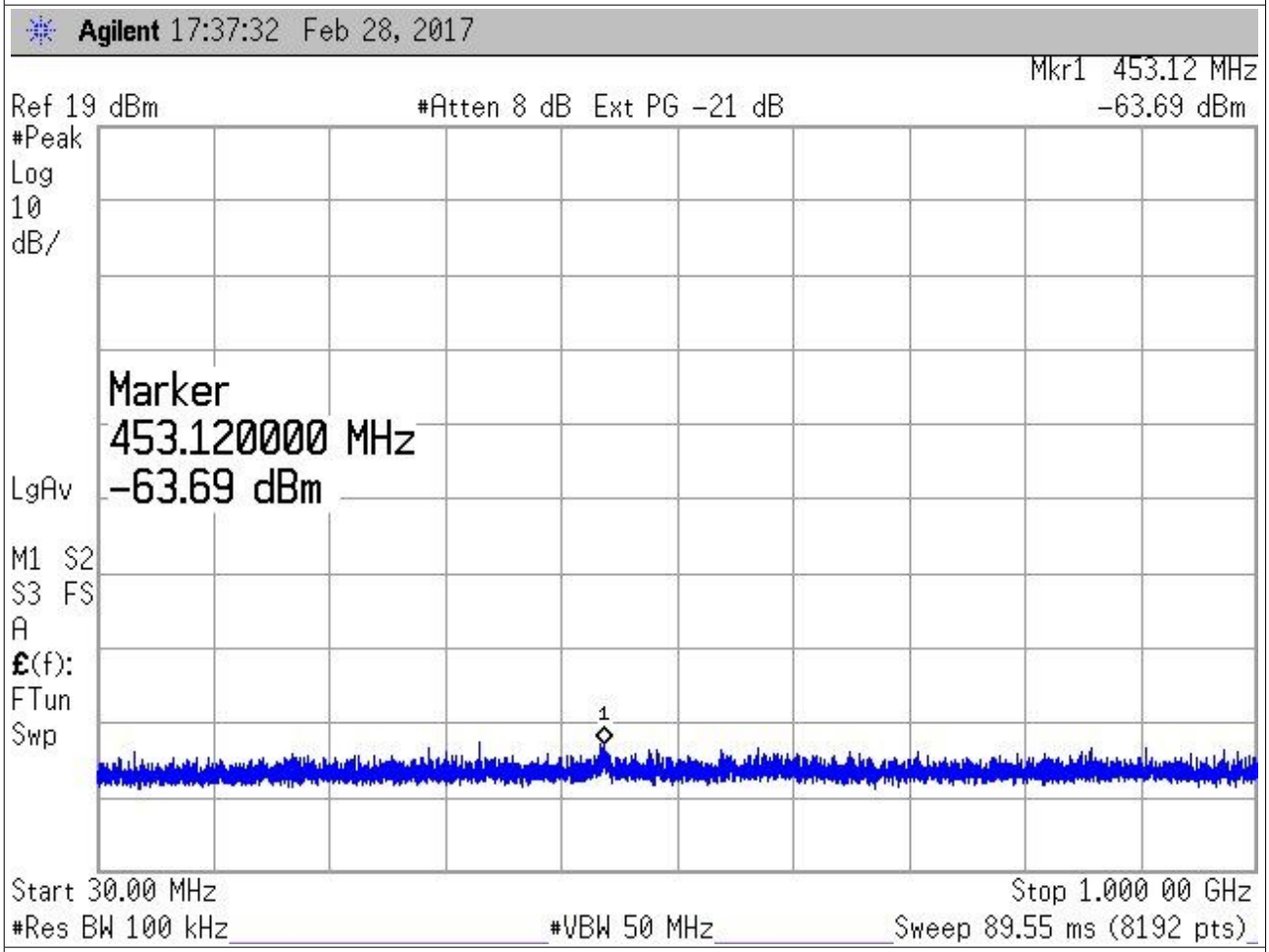
Range: 30 – 1000 MHz



Note:

Channel 11; "11g" at 54Mbps

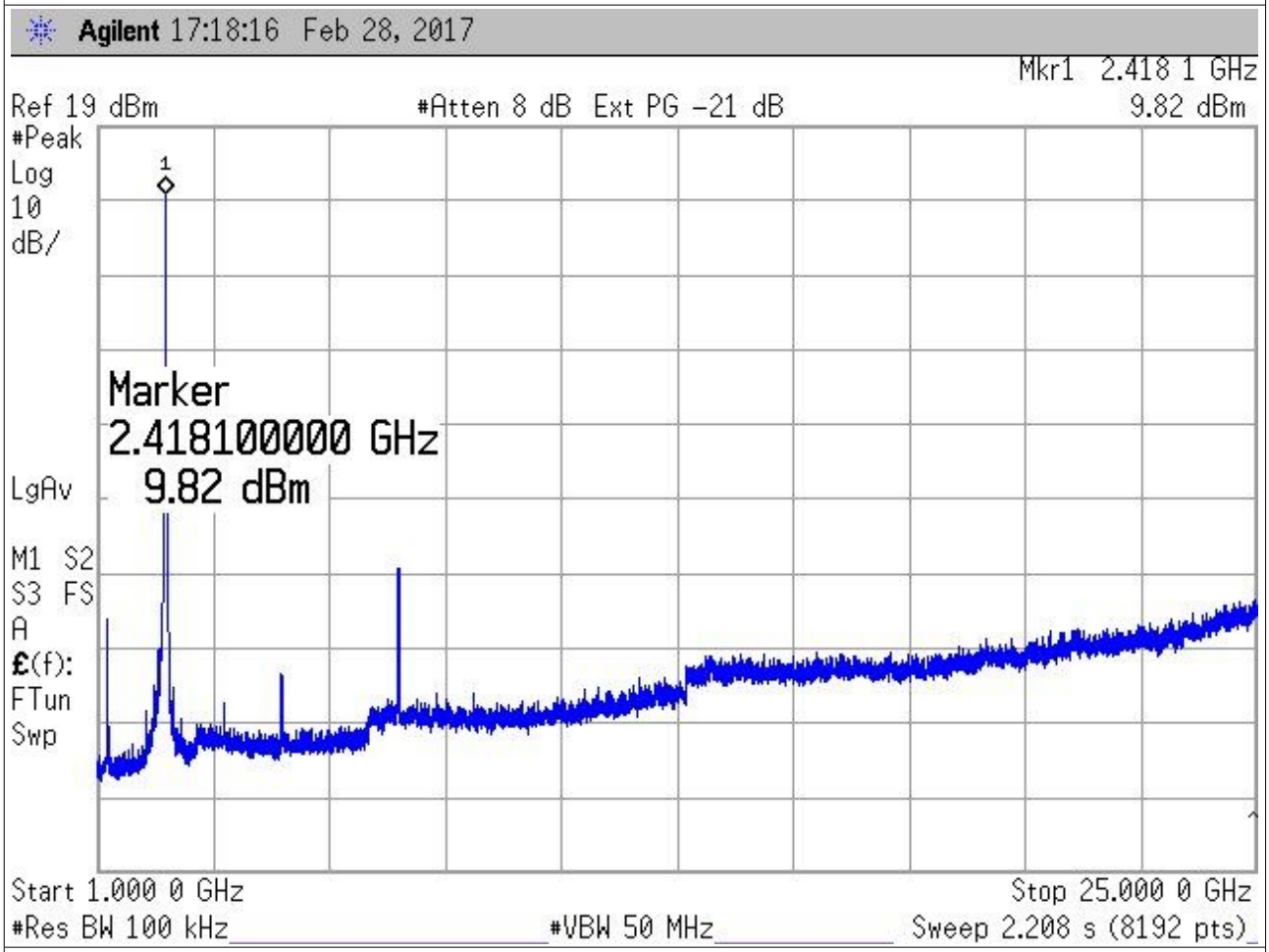
Range: 1 – 25 GHz



Note:

Channel 1; "11n" at 65Mbps

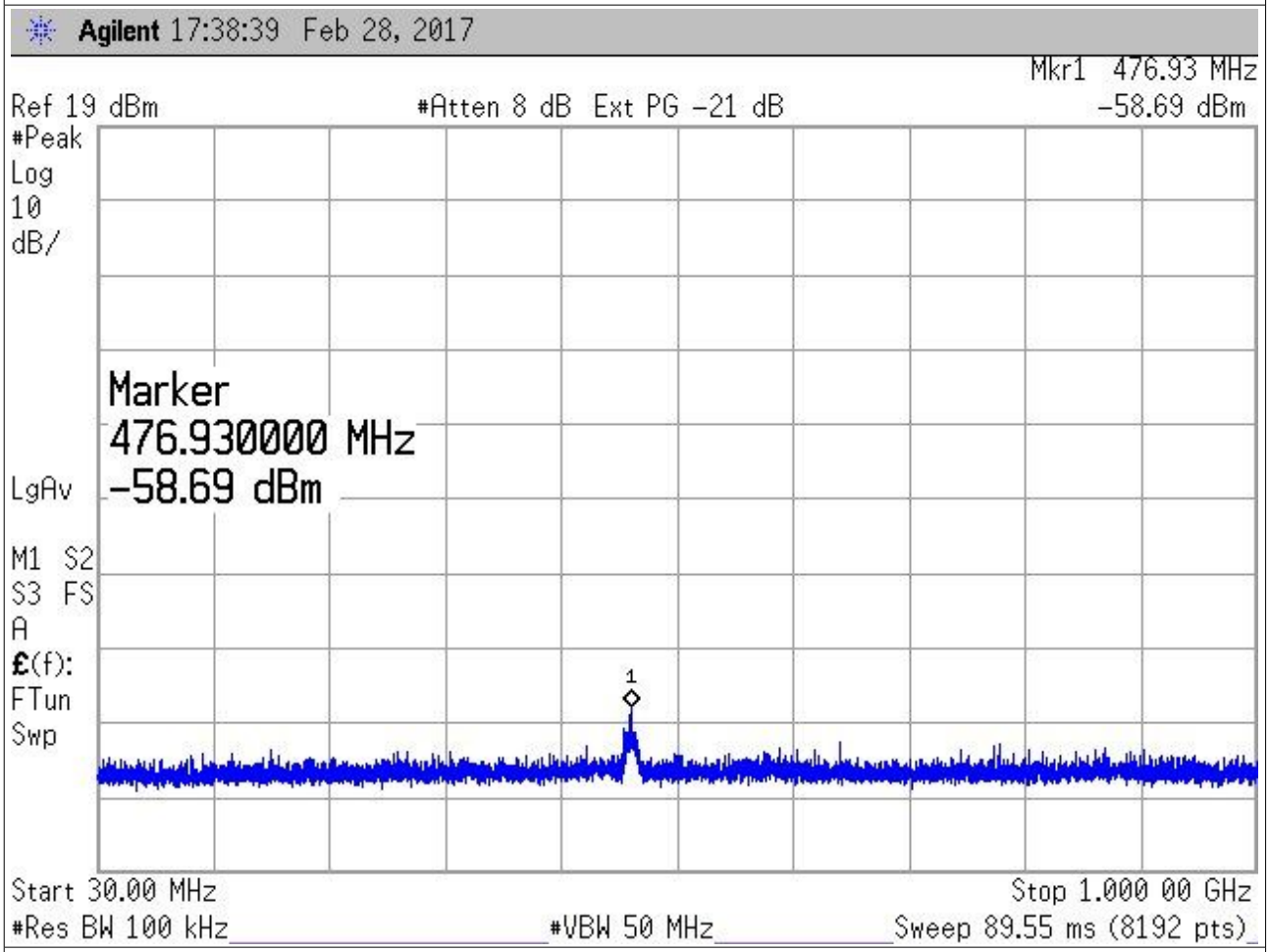
Range: 30 – 1000 MHz



Note:

Channel 1; "11n" at 65Mbps

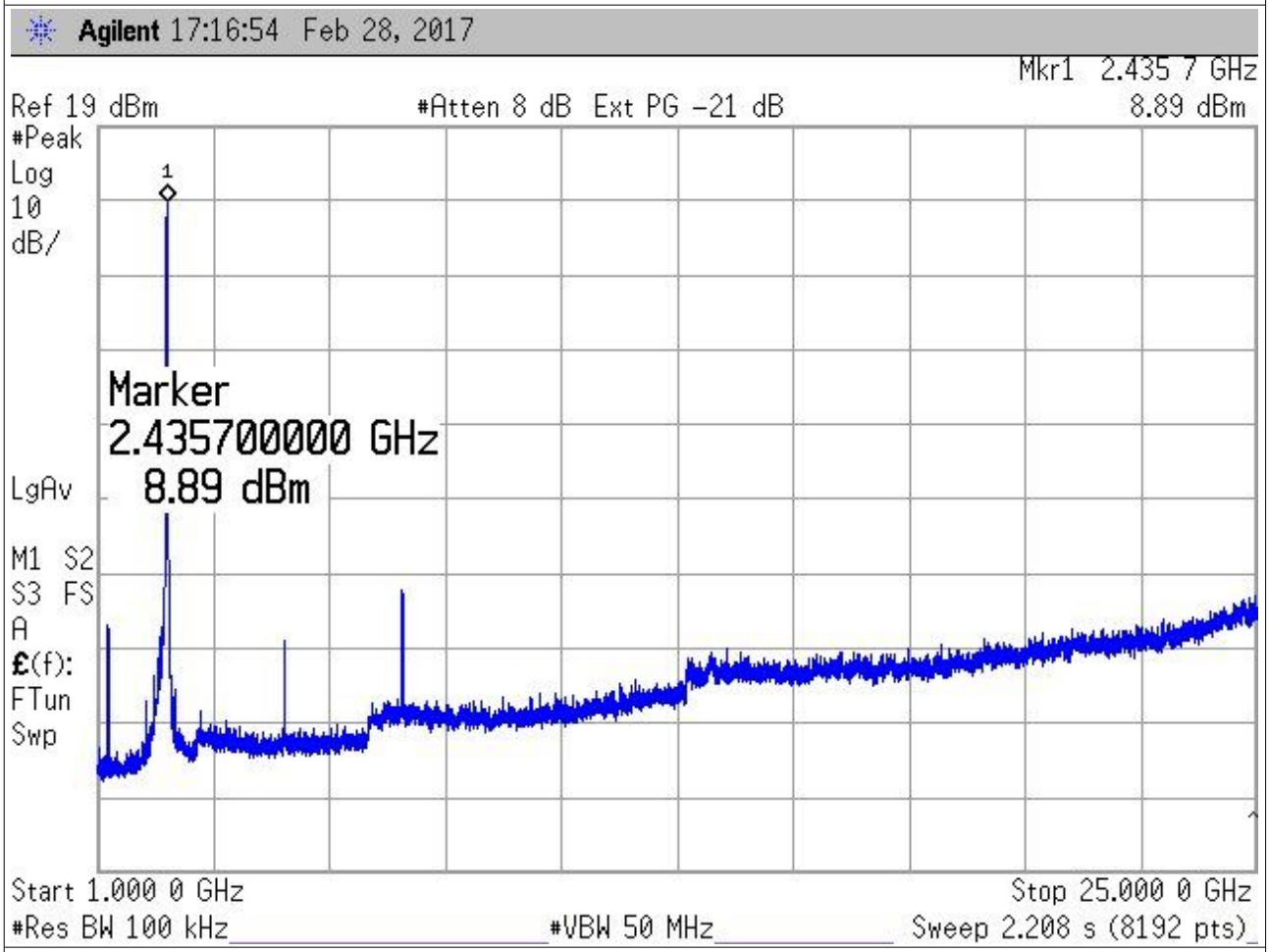
Range: 1 – 25 GHz



Note:

Channel 6; "11n" at 65Mbps

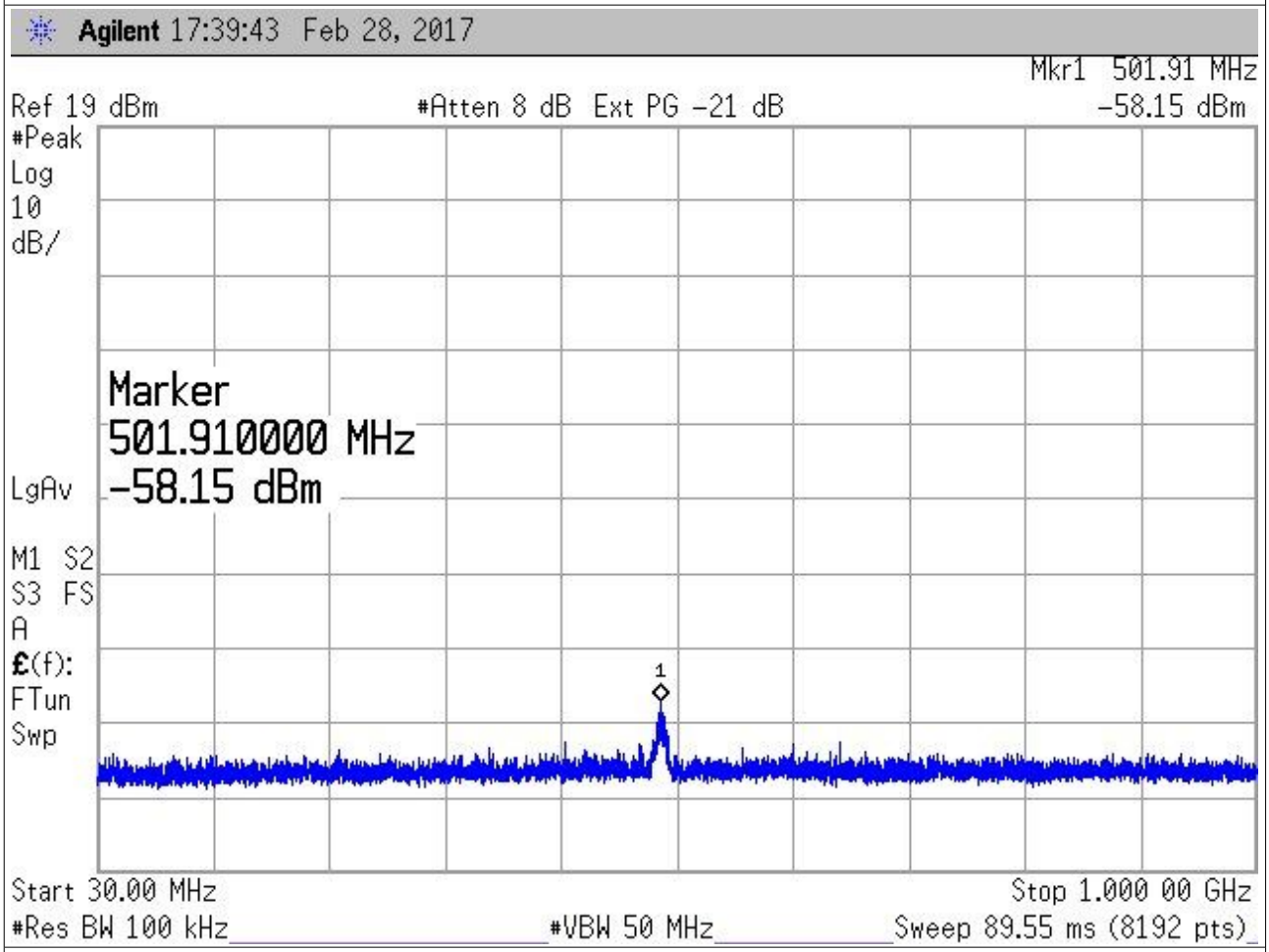
Range: 30 – 1000 MHz



Note:

Channel 6; "11n" at 65Mbps

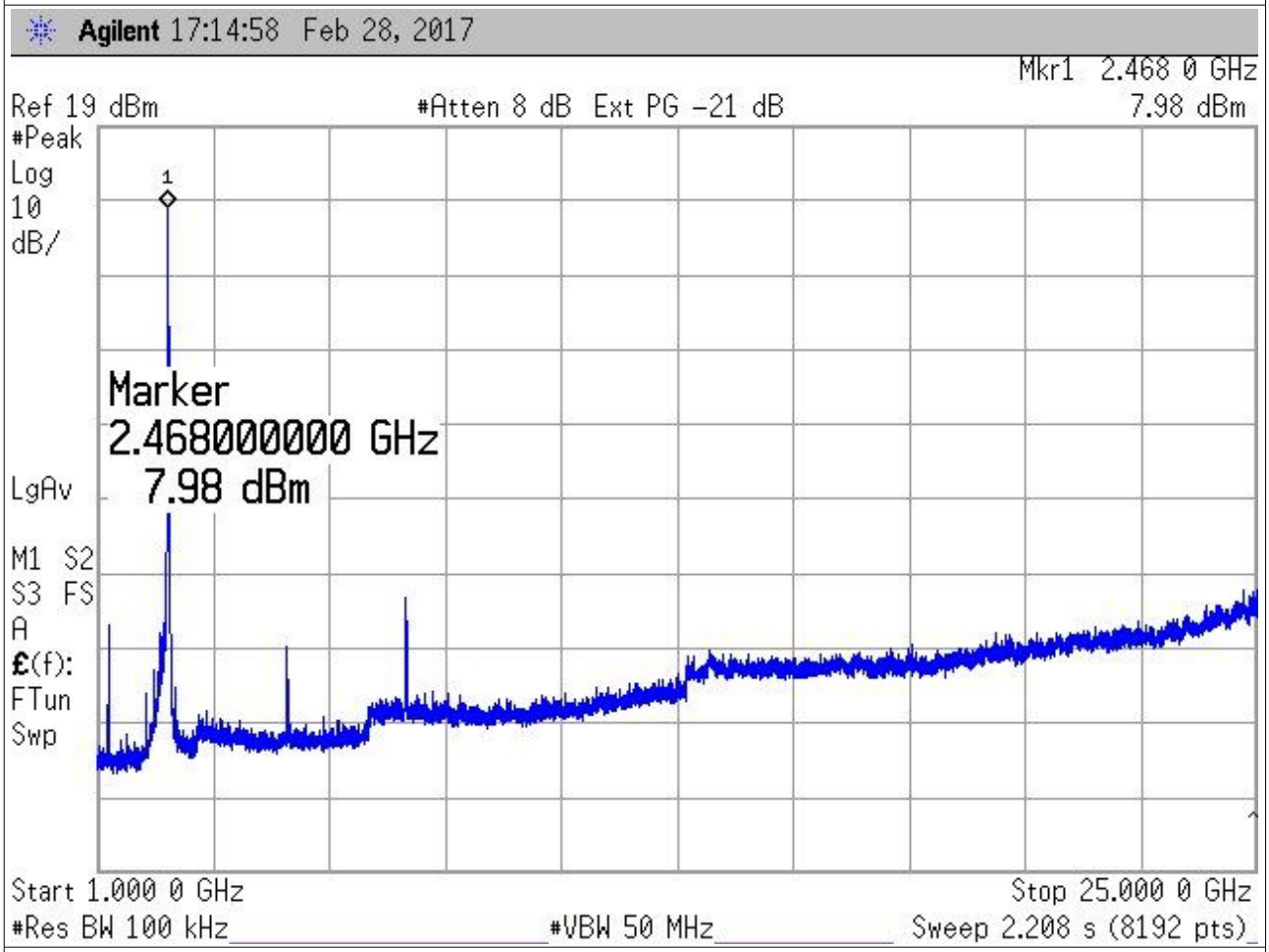
Range: 1 – 25 GHz



Note:

Channel 11; "11n" at 65Mbps

Range: 30 – 1000 MHz



Note:

Channel 11; "11n" at 65Mbps

Range: 1 – 25 GHz

7. PEAK POWER SPECTRAL DENSITY

Equipment shall meet the limits below .

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 Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DATE
EMI Receiver	Agilent	E4440A	01/2018

Test procedure: APR01

Test performed on low, middle and high channels and in the b, g and n protocols at maximum data rate for each protocol.

Results:

No non-compliance noted

802.11b Mode, 11 Mbs (Duty Cycle: 90.3%; Total On/Off period: 956.7 µs)

Channel	*Frequency (MHz)*	*Max Peak (dBm)*	*10 Log(1/DC) (dB)*	*PPSD (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	-3.01	0.45	-2.56	8	-10.56
Mid	2437	-4.44	0.45	-3.99	8	-11.99
High	2462	-3.72	0.45	-3.27	8	-11.27

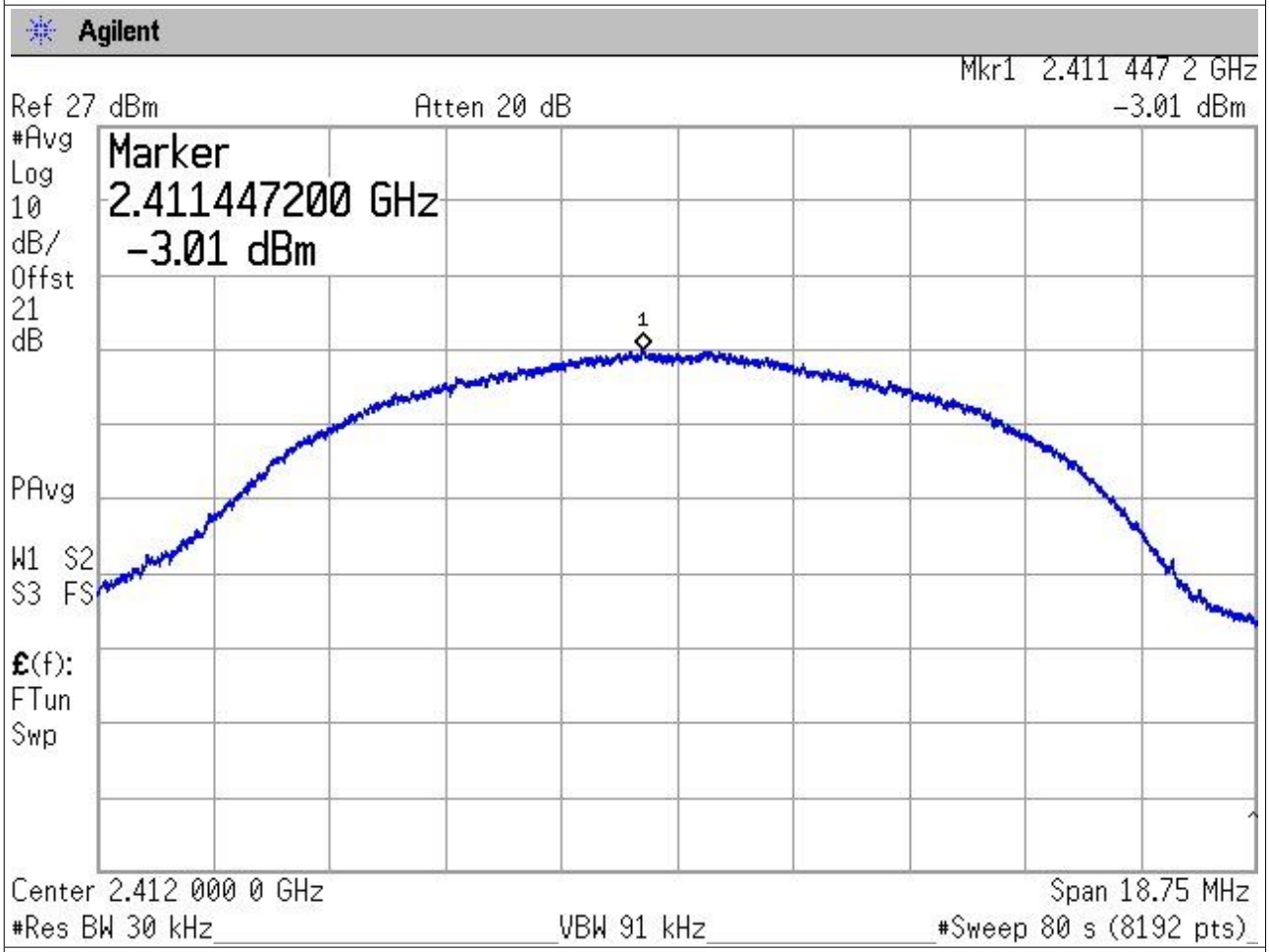
802.11g Mode, 54 Mbs (Duty Cycle: 64.8%; Total On/Off period: 280.7 µs)

Channel	*Frequency (MHz)*	*Max Peak (dBm)*	*10 Log(1/DC) (dB)*	*PPSD (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	-3.76	1.89	-1.87	8	-9.87
Mid	2437	-5.07	1.89	-3.18	8	-11.18
High	2462	-4.84	1.89	-2.95	8	-10.95

802.11n Mode, 65 Mbs (Duty Cycle: 63.1%; Total On/Off period: 268.9 µs)

Channel	*Frequency (MHz)*	*Max Peak (dBm)*	*10 Log(1/DC) (dB)*	*PPSD (dBm)*	*Limit (dBm)*	*Margin (dB)*
Low	2412	-4.36	2	-2.36	8	-10.36
Mid	2437	-5.97	2	-3.97	8	-11.97
High	2462	-5.55	2	-3.55	8	-11.55

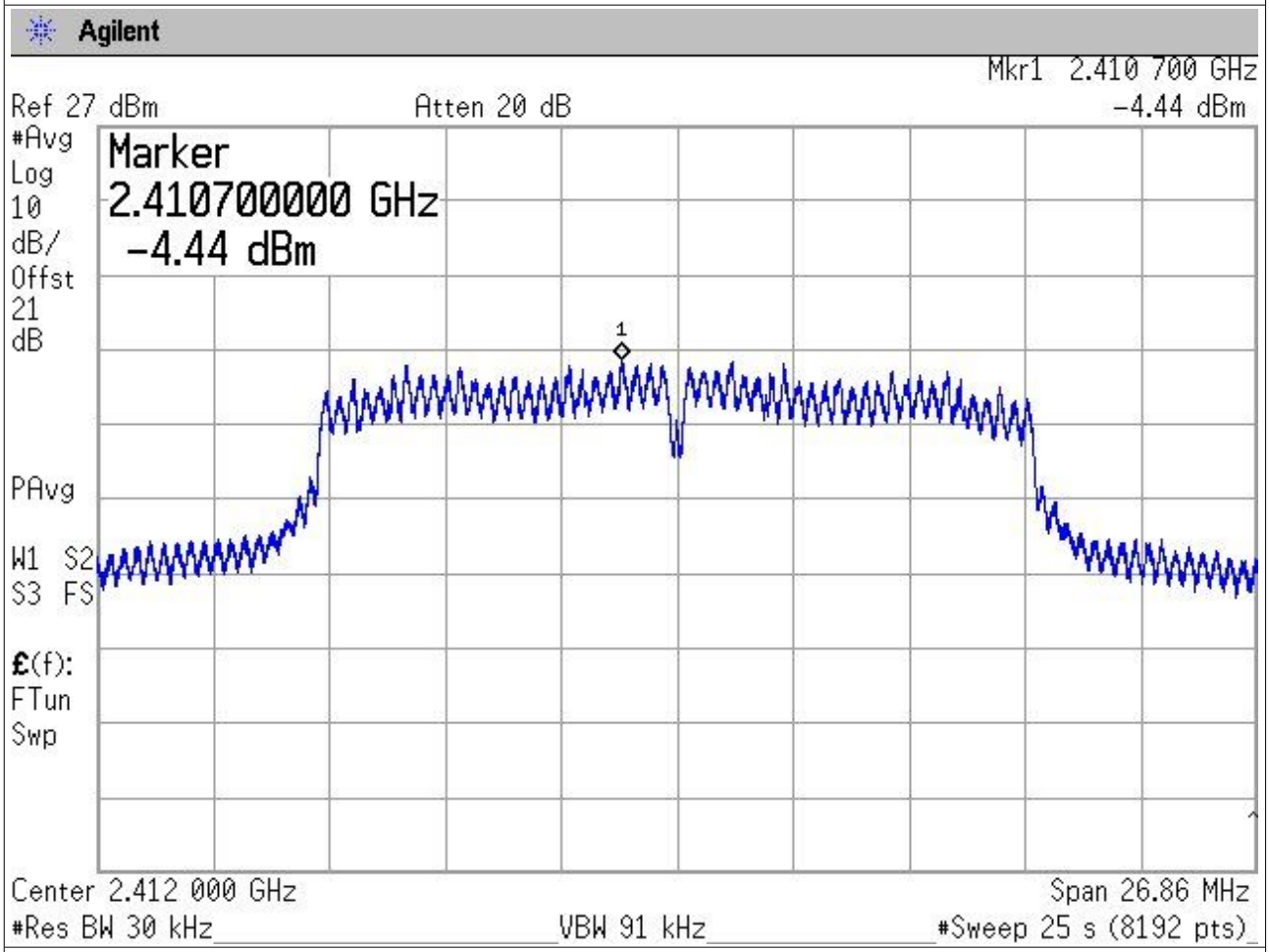
The following figures show the results.



Note:

Channel 1; "11b" at 11Mbps

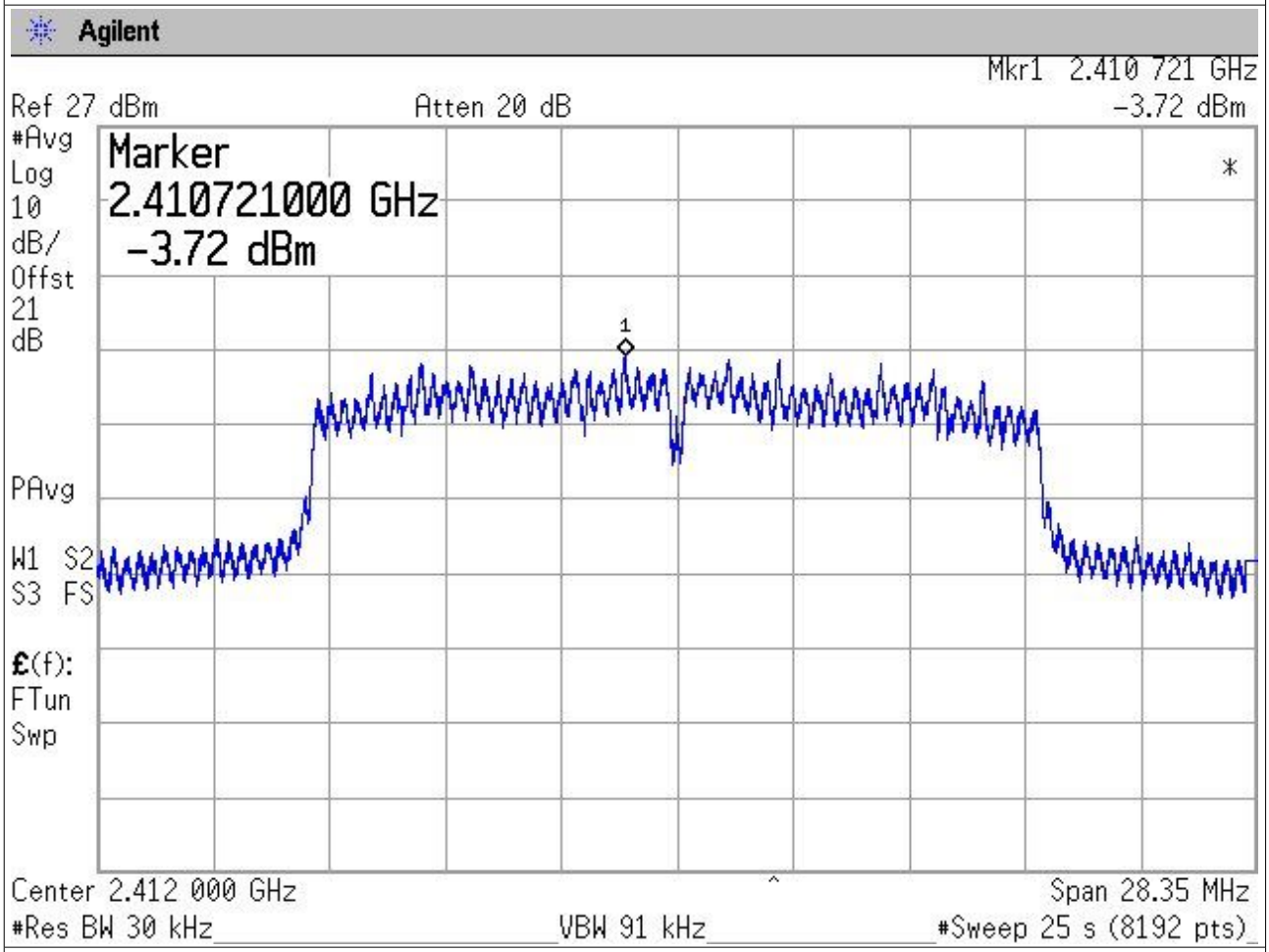
Maximum Peak value: -3.01 dBm



Note:

Channel 1; "11g" at 54Mbps

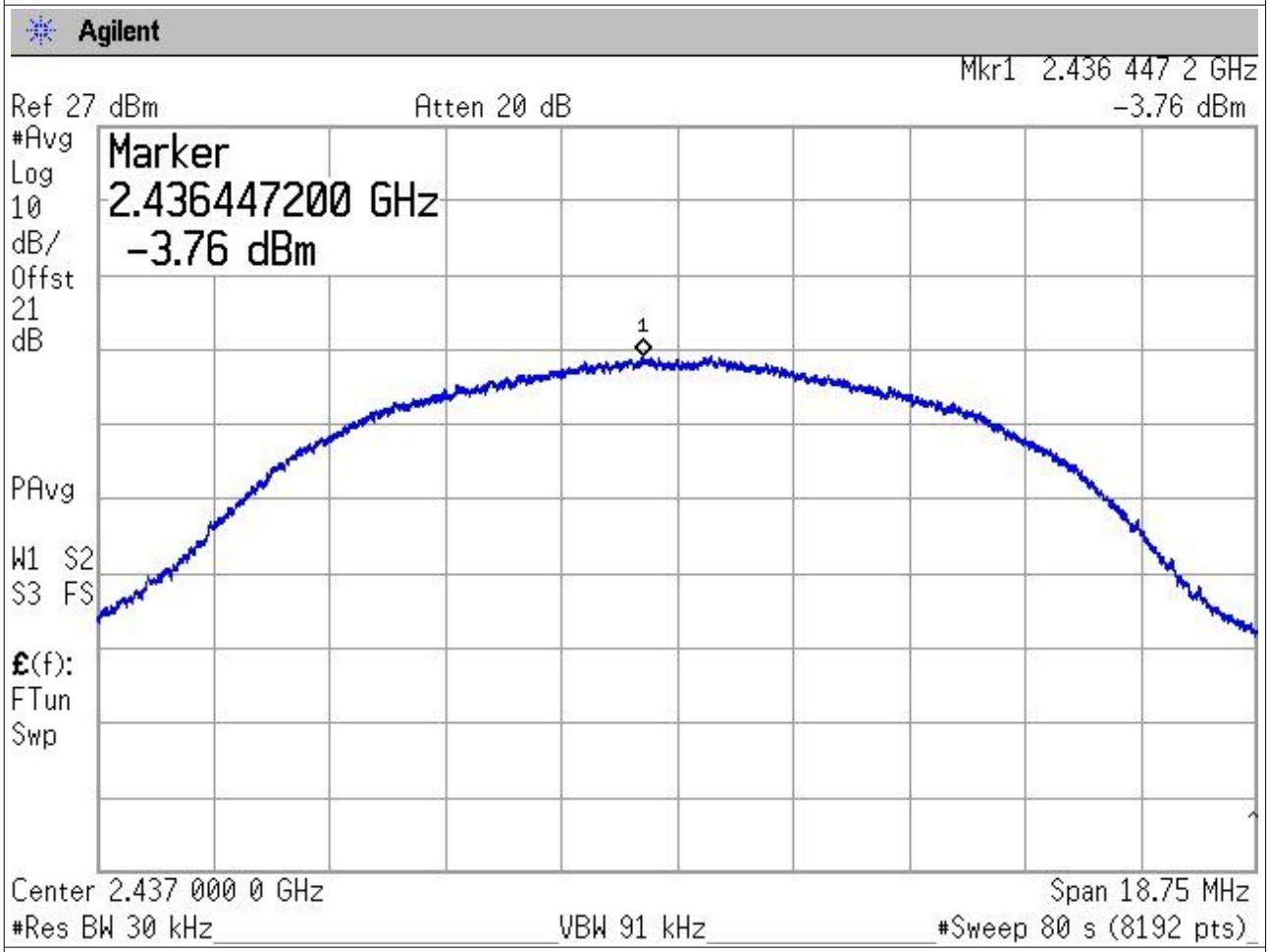
Maximum Peak value: -4.44 dBm



Note:

Channel 1; "11n" at 65Mbps

Maximum Peak value: -3.72 dBm



Note:

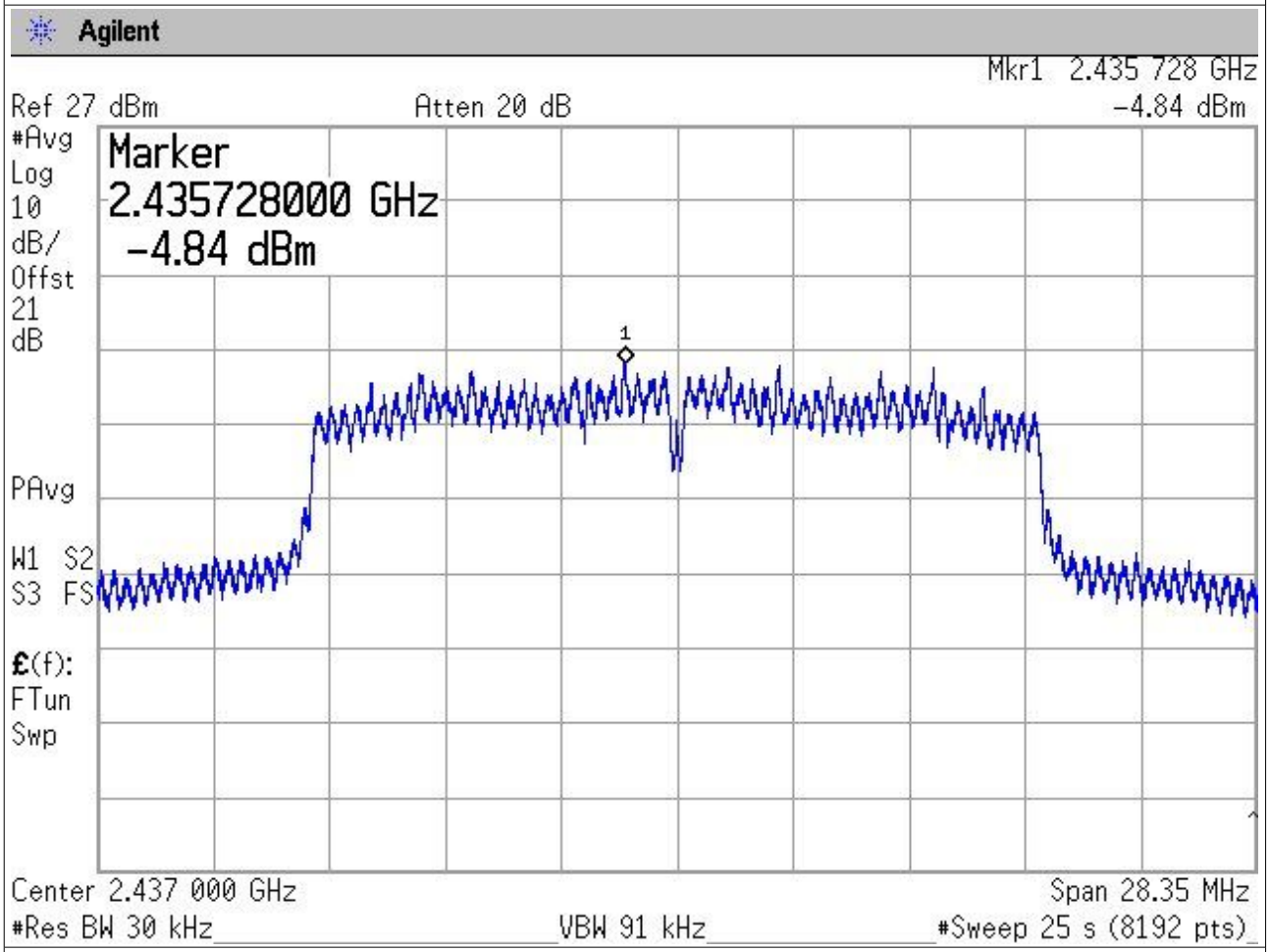
Channel 6; "11b" at 11Mbps

Maximum Peak value: -3.76 dBm

Note:

Channel 6; "11g" at 54Mbps

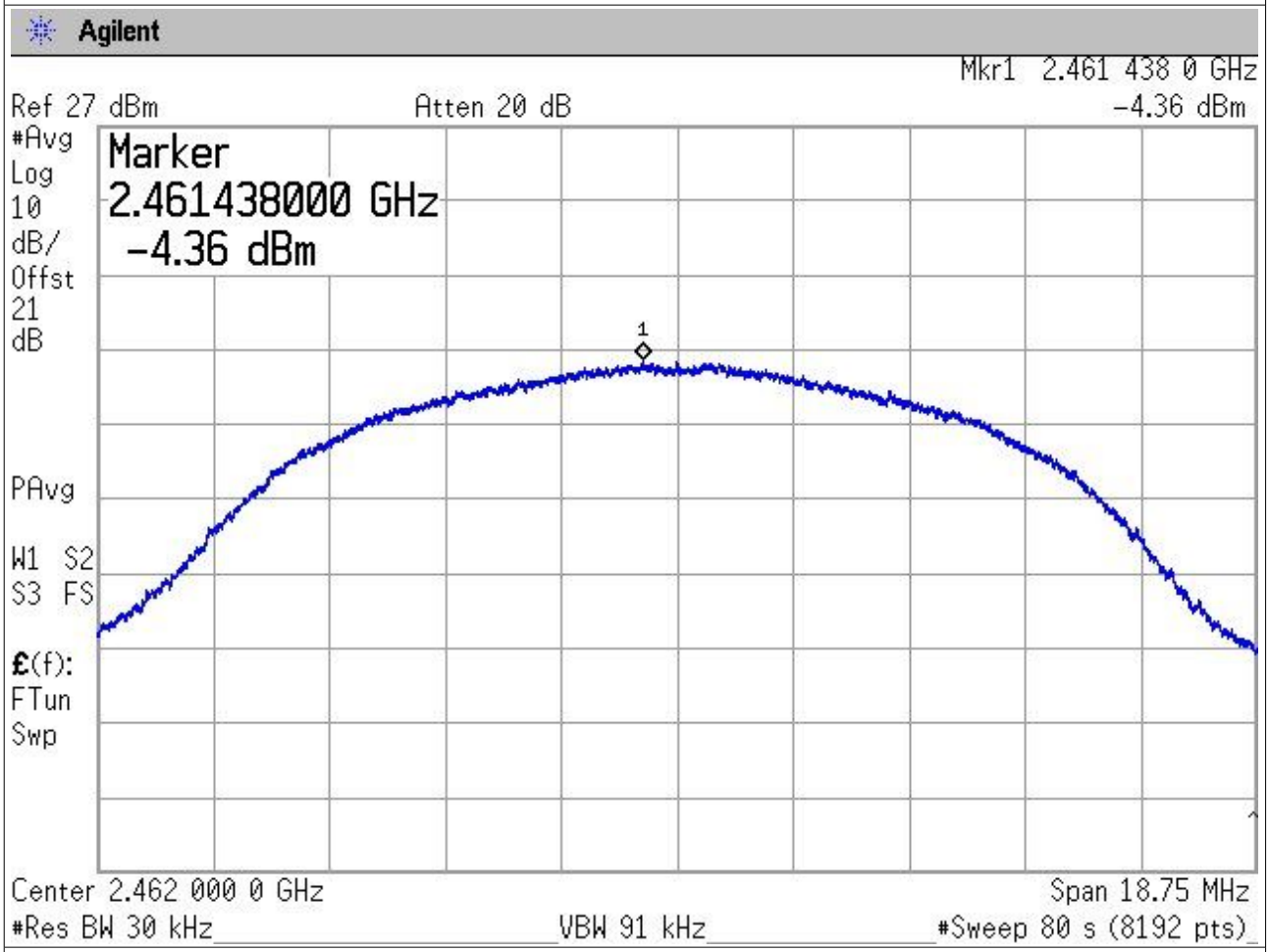
Maximum Peak value: -5.07 dBm



Note:

Channel 6; "11n" at 65Mbps

Maximum Peak value: -4.84 dBm



Note:

Channel 11; "11b" at 11Mbps

Maximum Peak value: -4.36 dBm

Note:

Channel 11; “11g” at 54Mbps

Maximum Peak value: -5.97 dBm

Note:

Channel 11; “11n” at 65Mbps

Maximum Peak value: -5.55 dBm

8. RADIATED EMISSIONS

In the following table you can find the limits established by the reference standard:

FCC

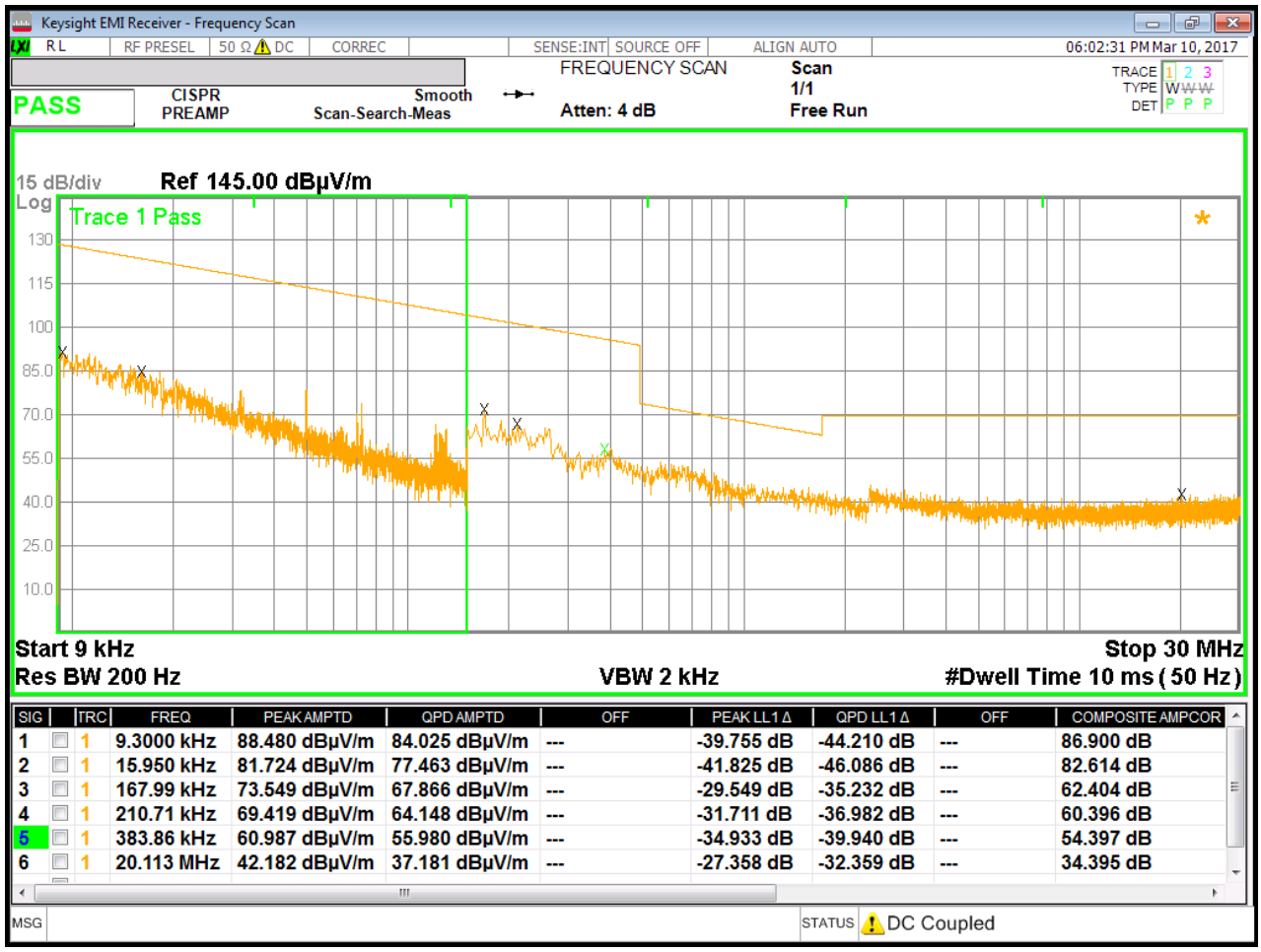
DISTANCE (m)	*FREQUENCY RANGE (MHz)*	*QUASI-PEAK LIMITS [dB (µV/m)]*	*PEAK LIMITS [dB (µV/m)]*	*AVERAGE LIMITS [dB (µV/m)]*
300	0.009 – 0.49	48.52 – 13.8	--	--
30	0.49 – 1.705	33.8 – 22.97	--	--
30	1.705 – 30	29.54	--	--
3	30 – 88	40	--	--
3	88 – 216	43.5	--	--
3	216 – 960	46	--	--
3	960 – 1000	54	--	--
3	Above 1000	--	74	54

Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DATE
EMI Receiver	HP	HP8546A	01/2018
EMI Receiver Filter Section	HP	HP85460A	01/2018
EMI Receiver	Agilent	E4440A	01/2018
EMI Receiver Filter Section	Agilent	N9039A	01/2018
Anechoic Chamber	Comtest	CSA01	01/2018
Horn Antenna (1-18 GHz)	EMCO	3115	01/2018
Loop Antenna	EMCO	6512	01/2018
Horn Antenna (18-26.5 GHz)	Alpha Ind. Inc.	100655A	01/2018
Bilog Antenna	Schaffner	CBL6112B	01/2018
Controller	Deisel	HD100	01/2018
Turn Table	Deisel	MA240	01/2018

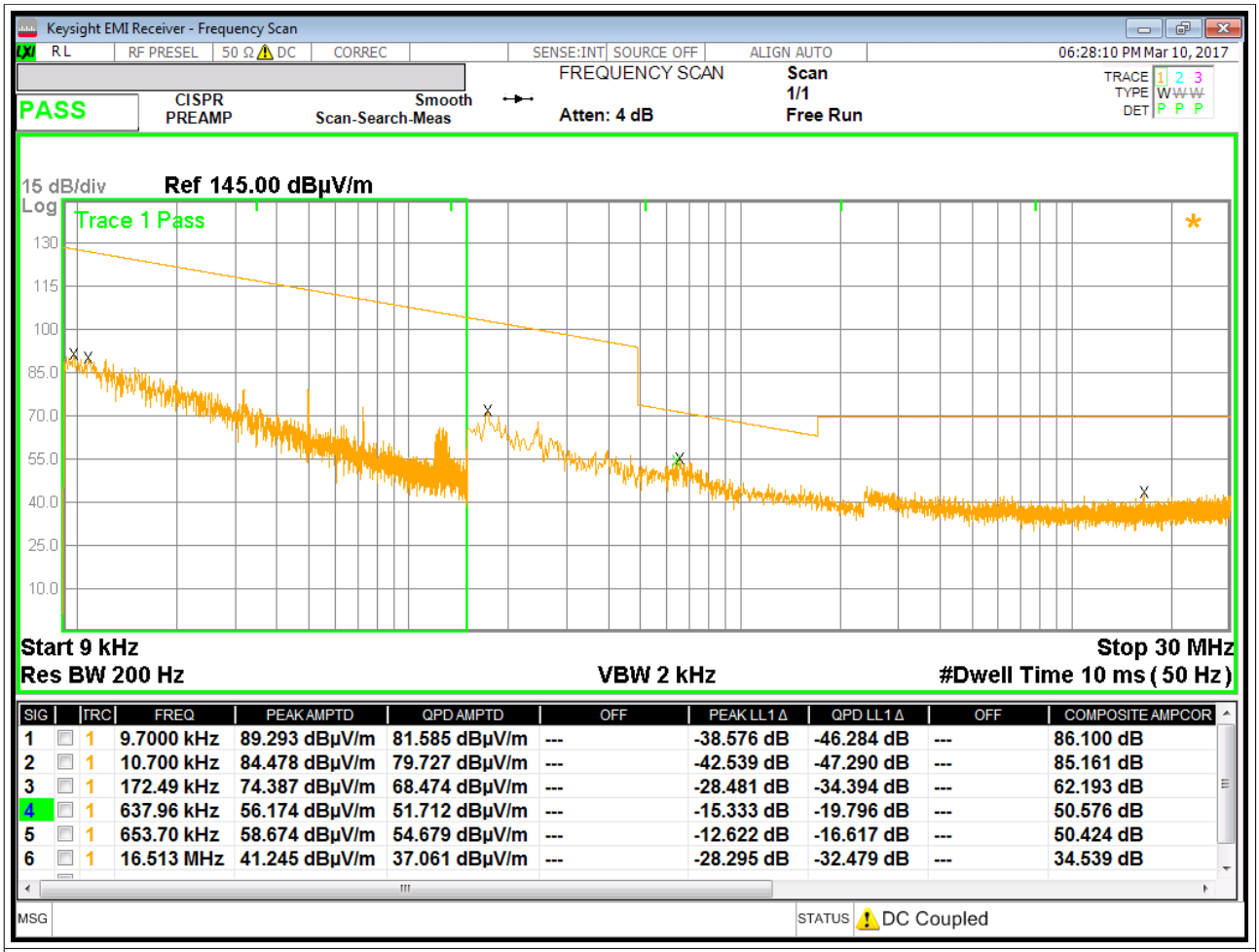
Test procedure: RE22R02

Notes
Azimuth position EUT-Antenna corresponding to 0° identifies the rotating table orientation (TT) in which the instrument to be tested shows the front part turned towards the antenna. Positive grades individuate clockwise rotations of TT when this one is observed from the top. For negative degrees, TT rotation is anticlockwise.
Antenna height respect to the mass plane is conventionally individuated with: MA=XXX where XXX indicates the height (always positive for e>100) expressed in cm.
Antenna horizontal polarisation is indicated by POL=H.
Antenna vertical polarisation is indicated by POL=V.
Accordingly to reference standard, a limit relaxing factor equal to 20 dB for decade for measurements performed at 3 m has been used.
Results and conclusions
In all the operative conditions, equipment complied with the standard limits. Graphics in following figures show the most significant registrations of the performed measurements.

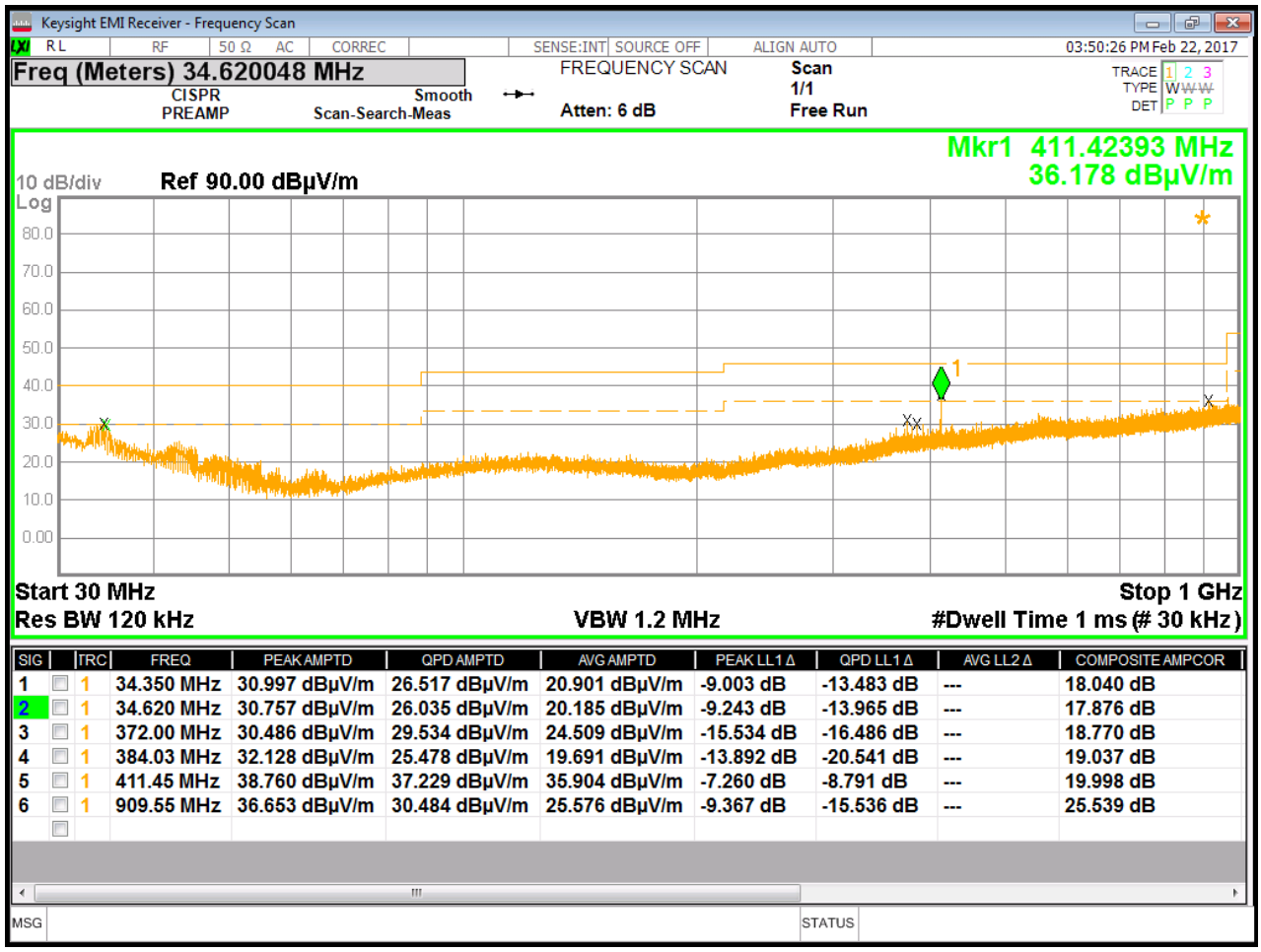


SIG	TRC	FREQ	PEAK AMPTD	QPD AMPTD	OFF	PEAK LL1 Δ	QPD LL1 Δ	OFF	COMPOSITE AMPCOR
1	1	9.3000 kHz	88.480 dBµV/m	84.025 dBµV/m	---	-39.755 dB	-44.210 dB	---	86.900 dB
2	1	15.950 kHz	81.724 dBµV/m	77.463 dBµV/m	---	-41.825 dB	-46.086 dB	---	82.614 dB
3	1	167.99 kHz	73.549 dBµV/m	67.866 dBµV/m	---	-29.549 dB	-35.232 dB	---	62.404 dB
4	1	210.71 kHz	69.419 dBµV/m	64.148 dBµV/m	---	-31.711 dB	-36.982 dB	---	60.396 dB
5	1	383.86 kHz	60.987 dBµV/m	55.980 dBµV/m	---	-34.933 dB	-39.940 dB	---	54.397 dB
6	1	20.113 MHz	42.182 dBµV/m	37.181 dBµV/m	---	-27.358 dB	-32.359 dB	---	34.395 dB

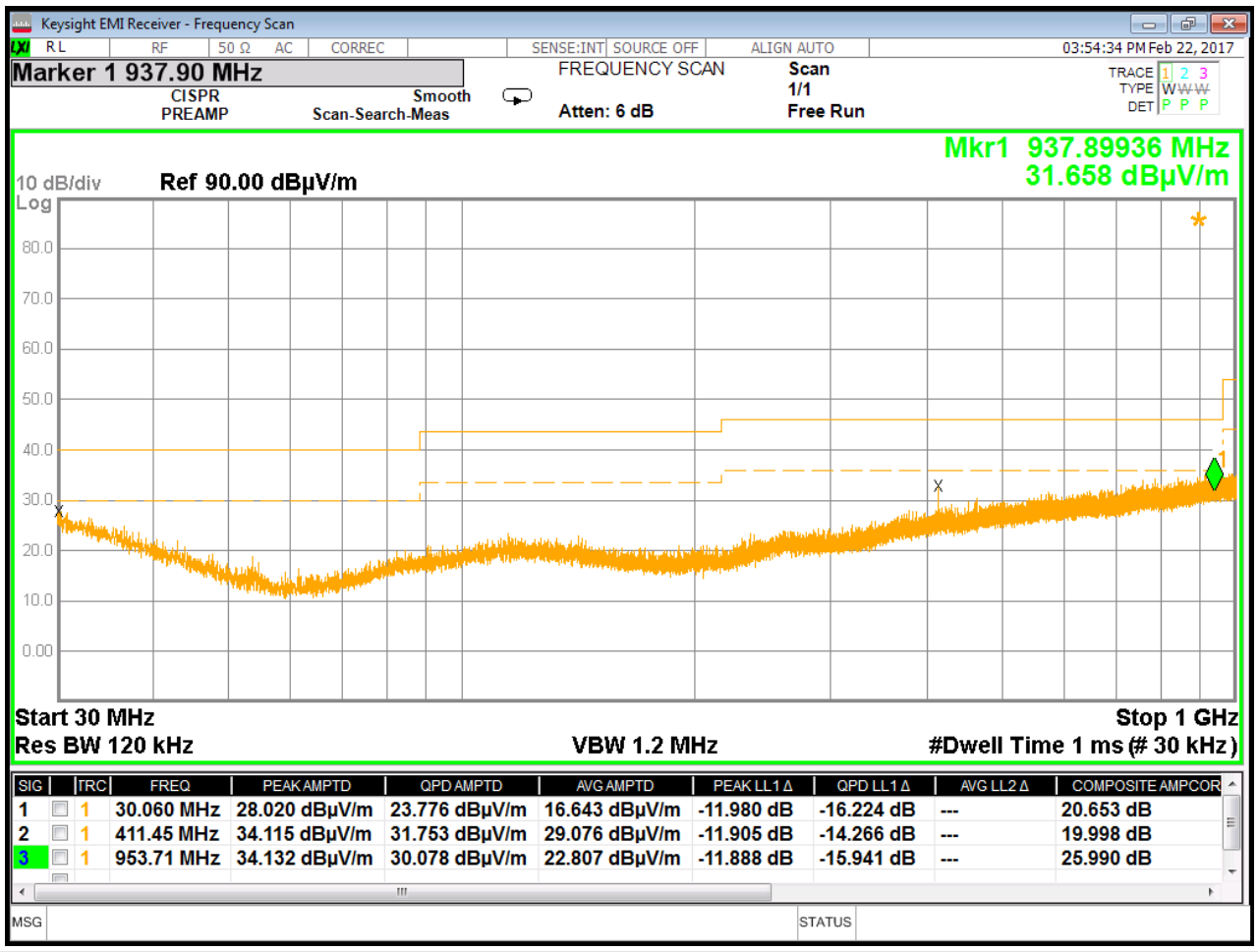
Loop Parallel to EUT

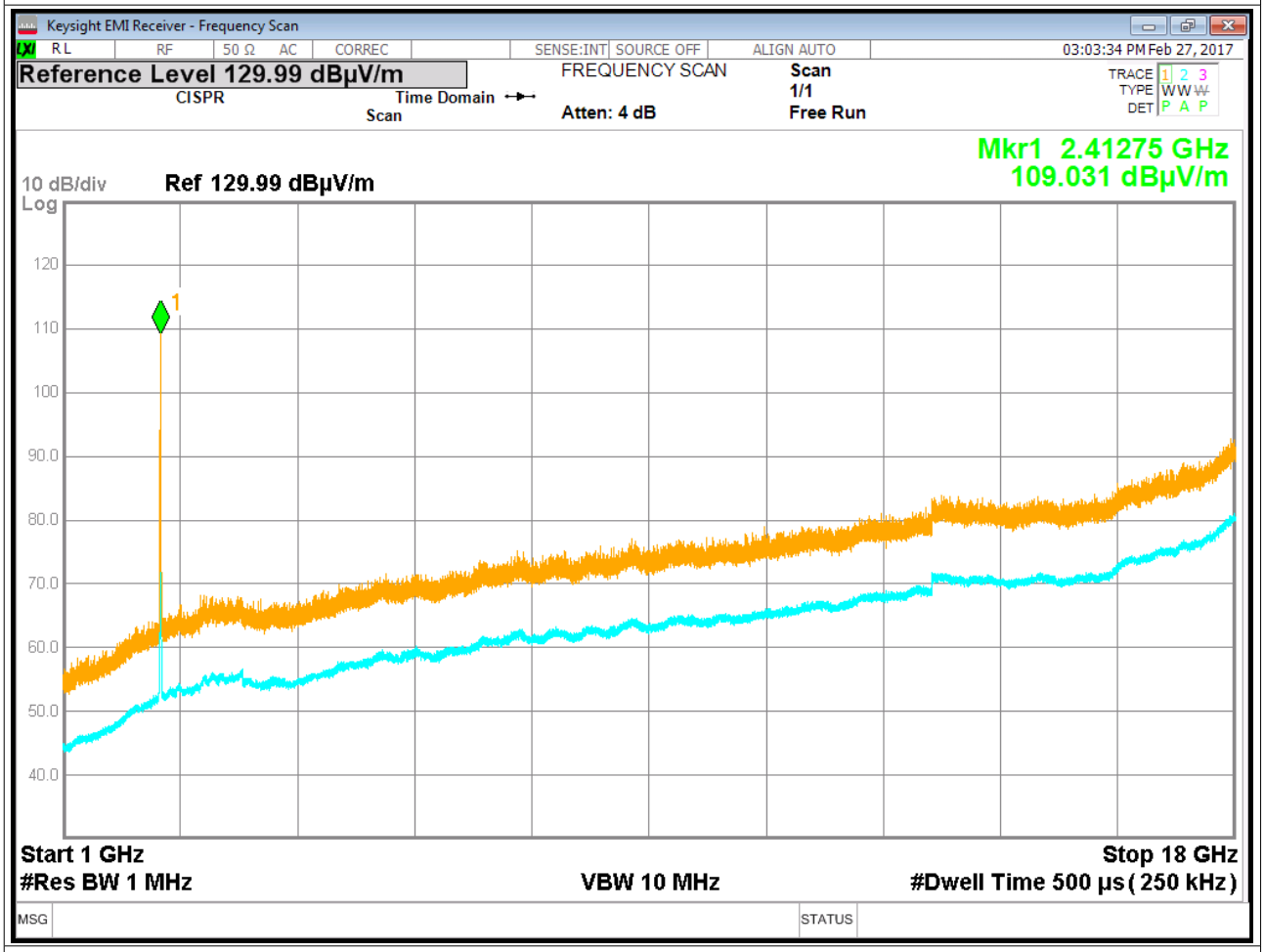


Loop Orthogonal to EUT



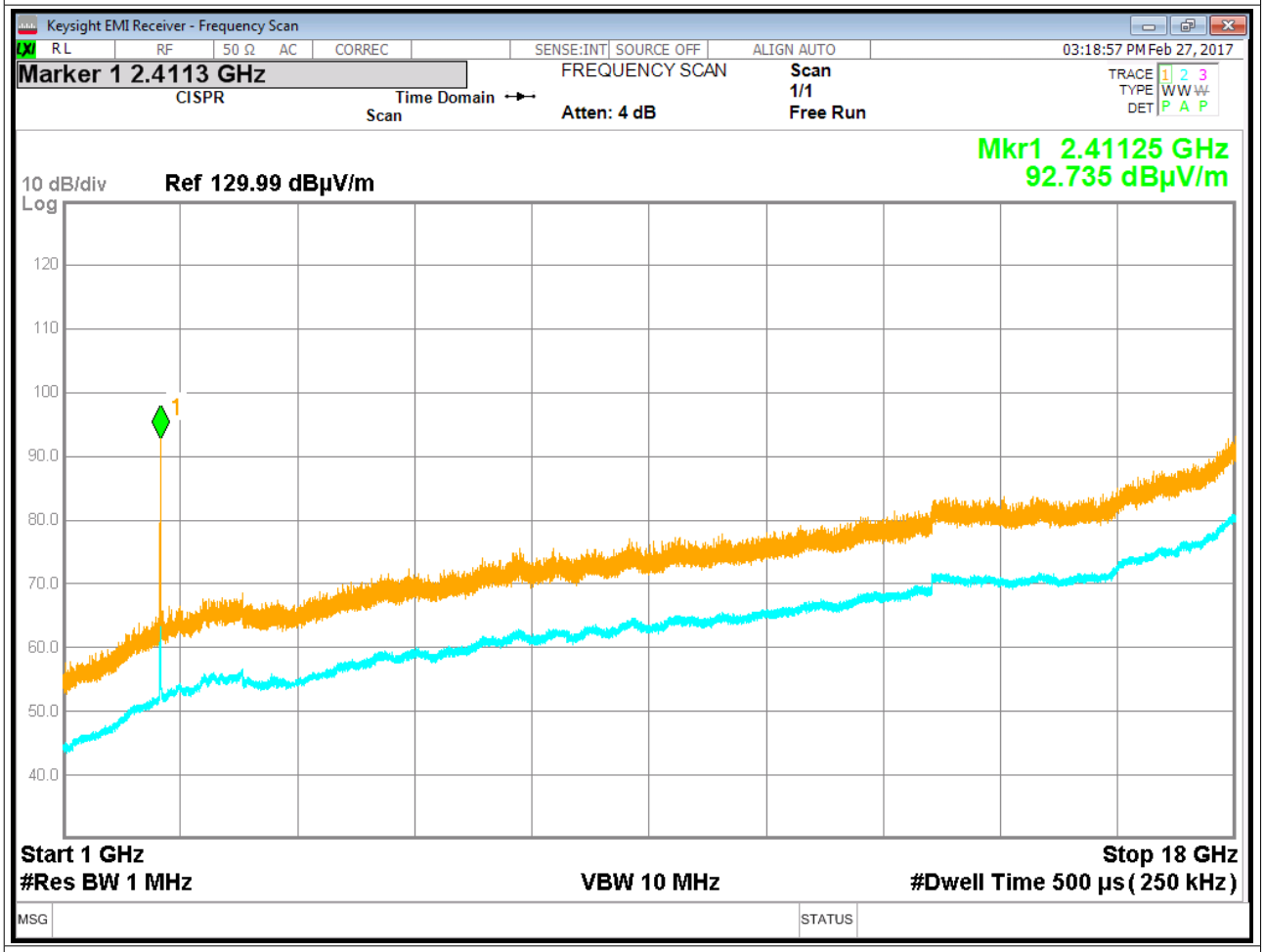
SIG	TRC	FREQ	PEAK AMPTD	QPD AMPTD	AVG AMPTD	PEAK LL1 Δ	QPD LL1 Δ	AVG LL2 Δ	COMPOSITE AMPCOR
1	1	34.350 MHz	30.997 dBµV/m	26.517 dBµV/m	20.901 dBµV/m	-9.003 dB	-13.483 dB	---	18.040 dB
2	1	34.620 MHz	30.757 dBµV/m	26.035 dBµV/m	20.185 dBµV/m	-9.243 dB	-13.965 dB	---	17.876 dB
3	1	372.00 MHz	30.486 dBµV/m	29.534 dBµV/m	24.509 dBµV/m	-15.534 dB	-16.486 dB	---	18.770 dB
4	1	384.03 MHz	32.128 dBµV/m	25.478 dBµV/m	19.691 dBµV/m	-13.892 dB	-20.541 dB	---	19.037 dB
5	1	411.45 MHz	38.760 dBµV/m	37.229 dBµV/m	35.904 dBµV/m	-7.260 dB	-8.791 dB	---	19.998 dB
6	1	909.55 MHz	36.653 dBµV/m	30.484 dBµV/m	25.576 dBµV/m	-9.367 dB	-15.536 dB	---	25.539 dB





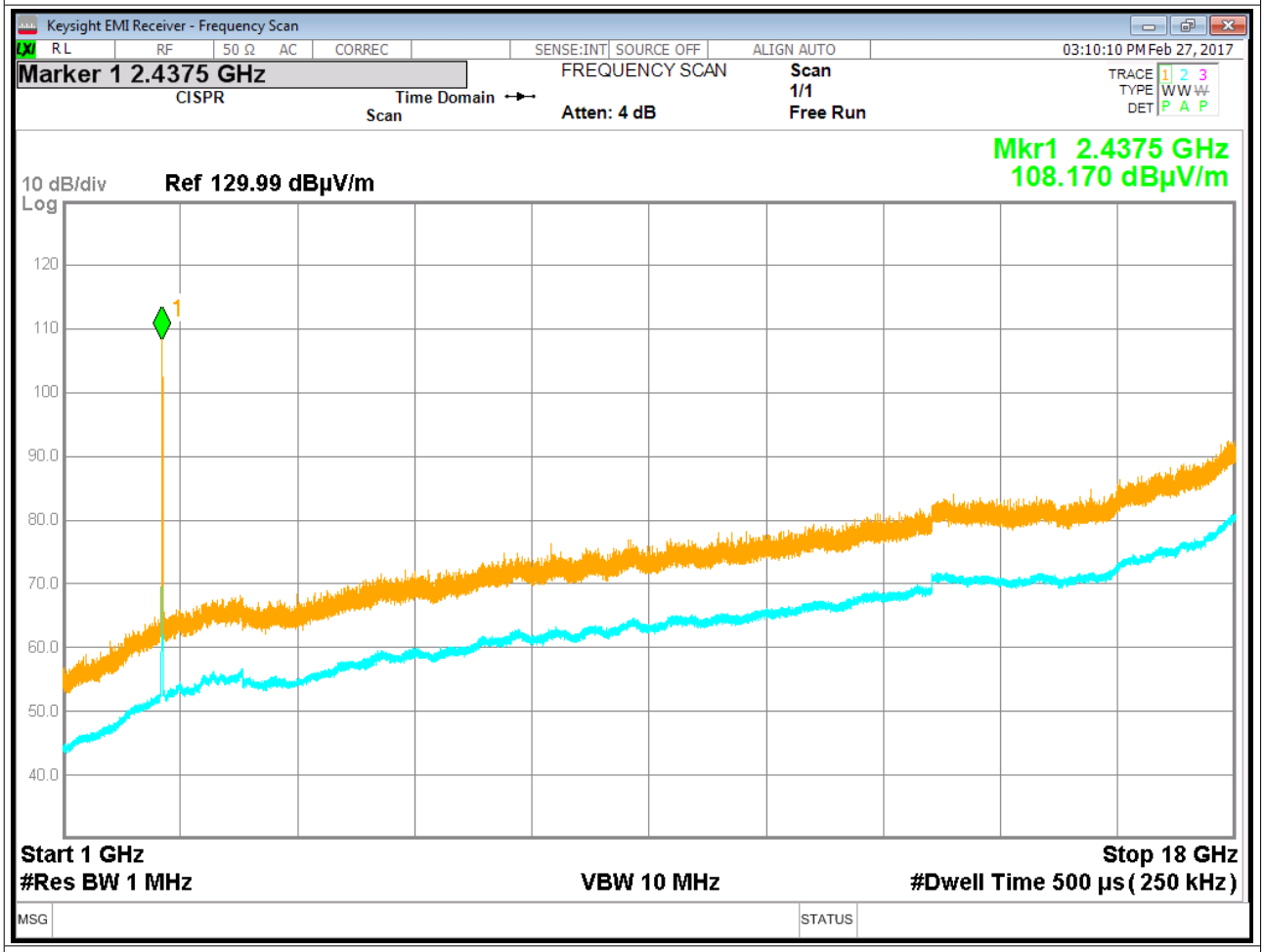
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type b
max speed (11 Mbps)



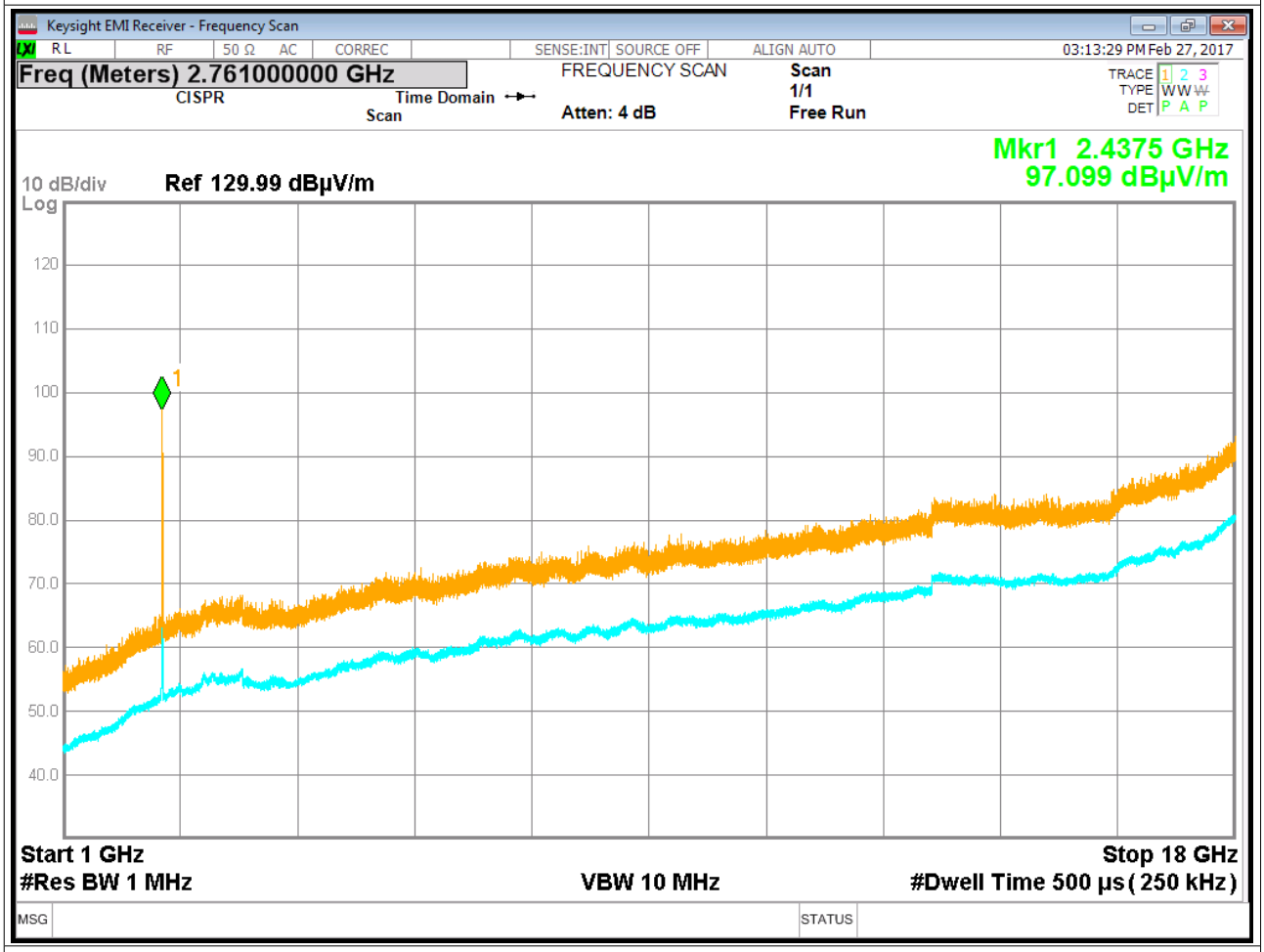
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type b
max speed (11 Mbps)



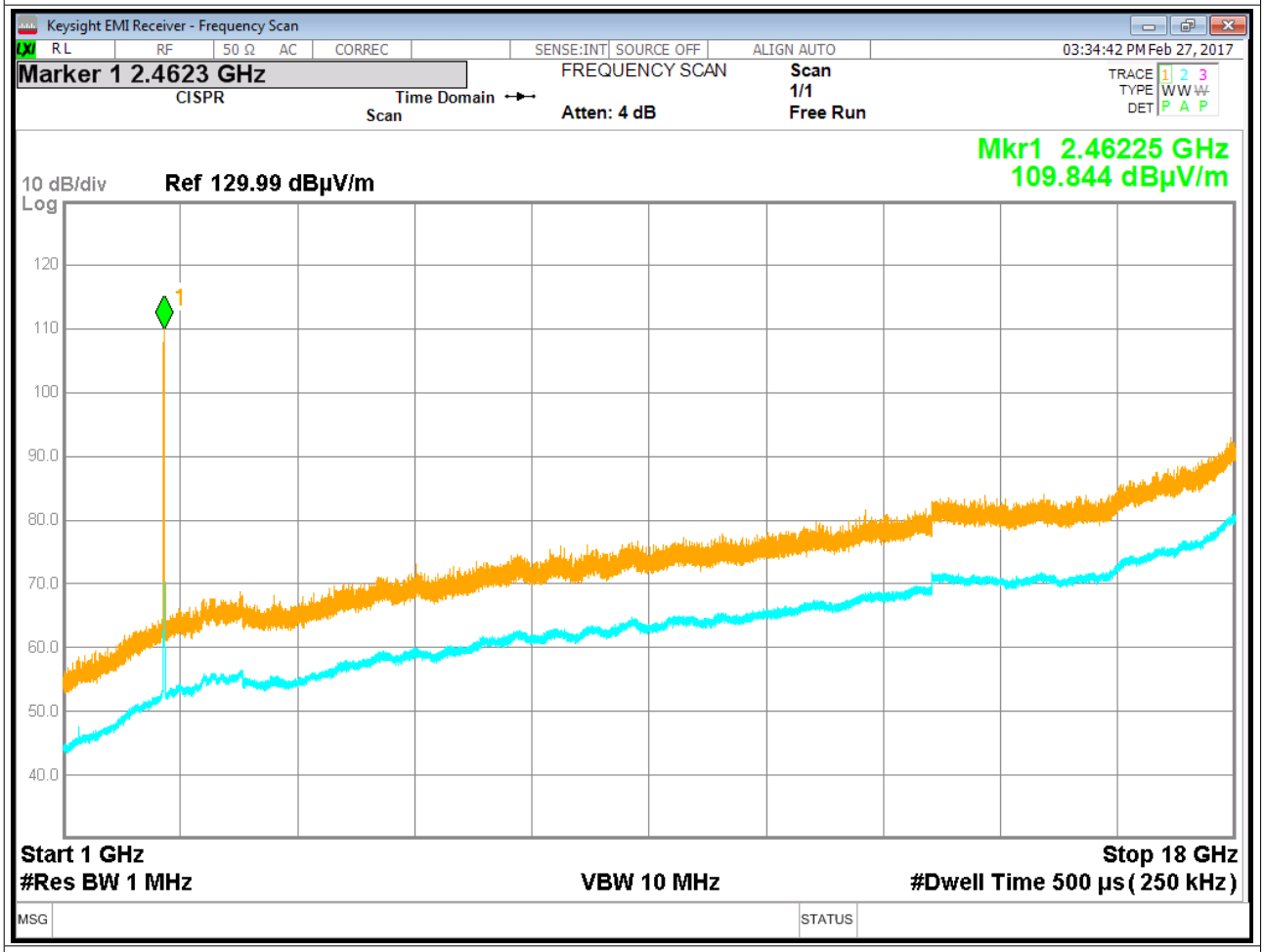
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type b
max speed (11 Mbps)



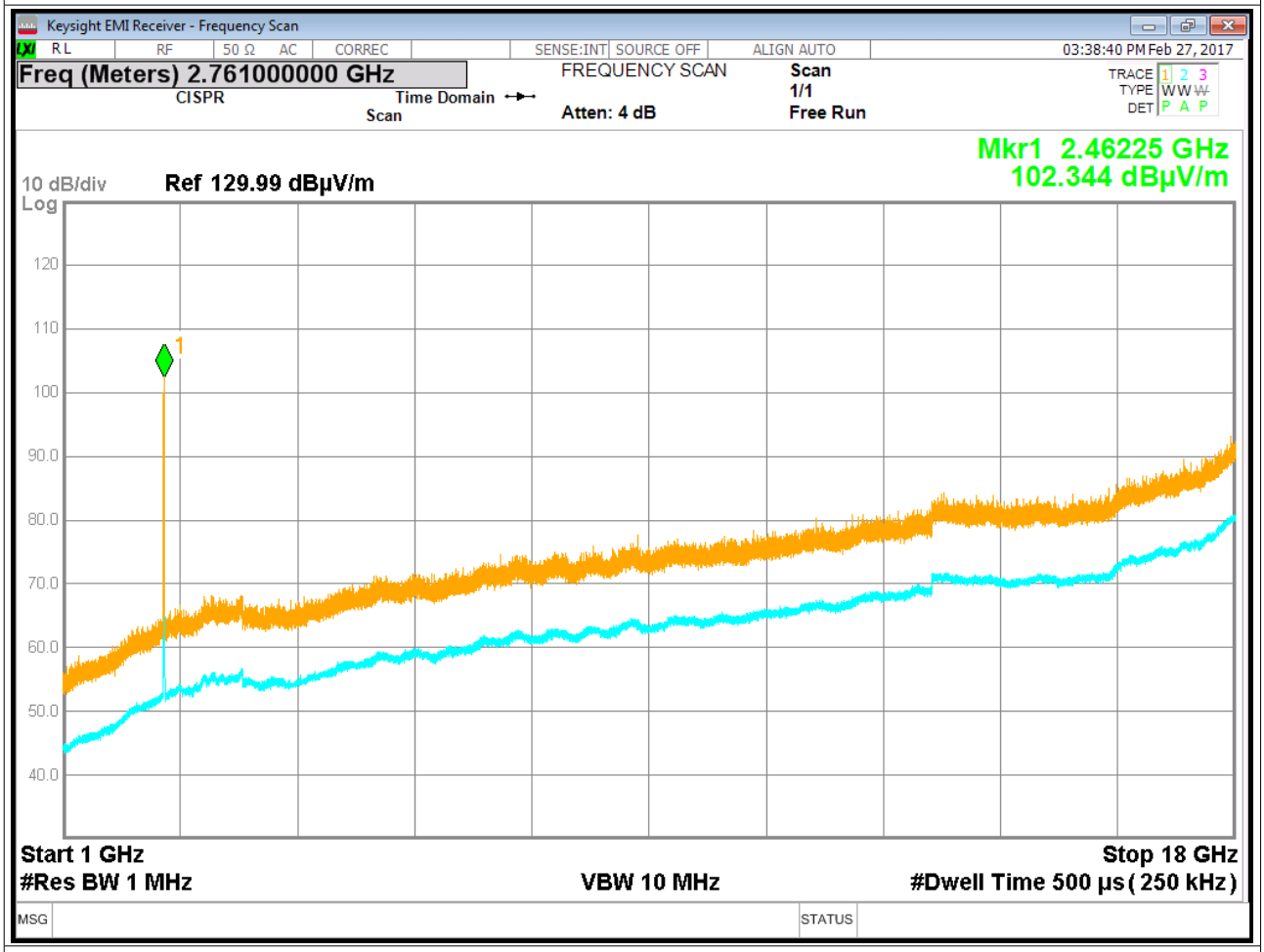
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type b
max speed (11 Mbps)



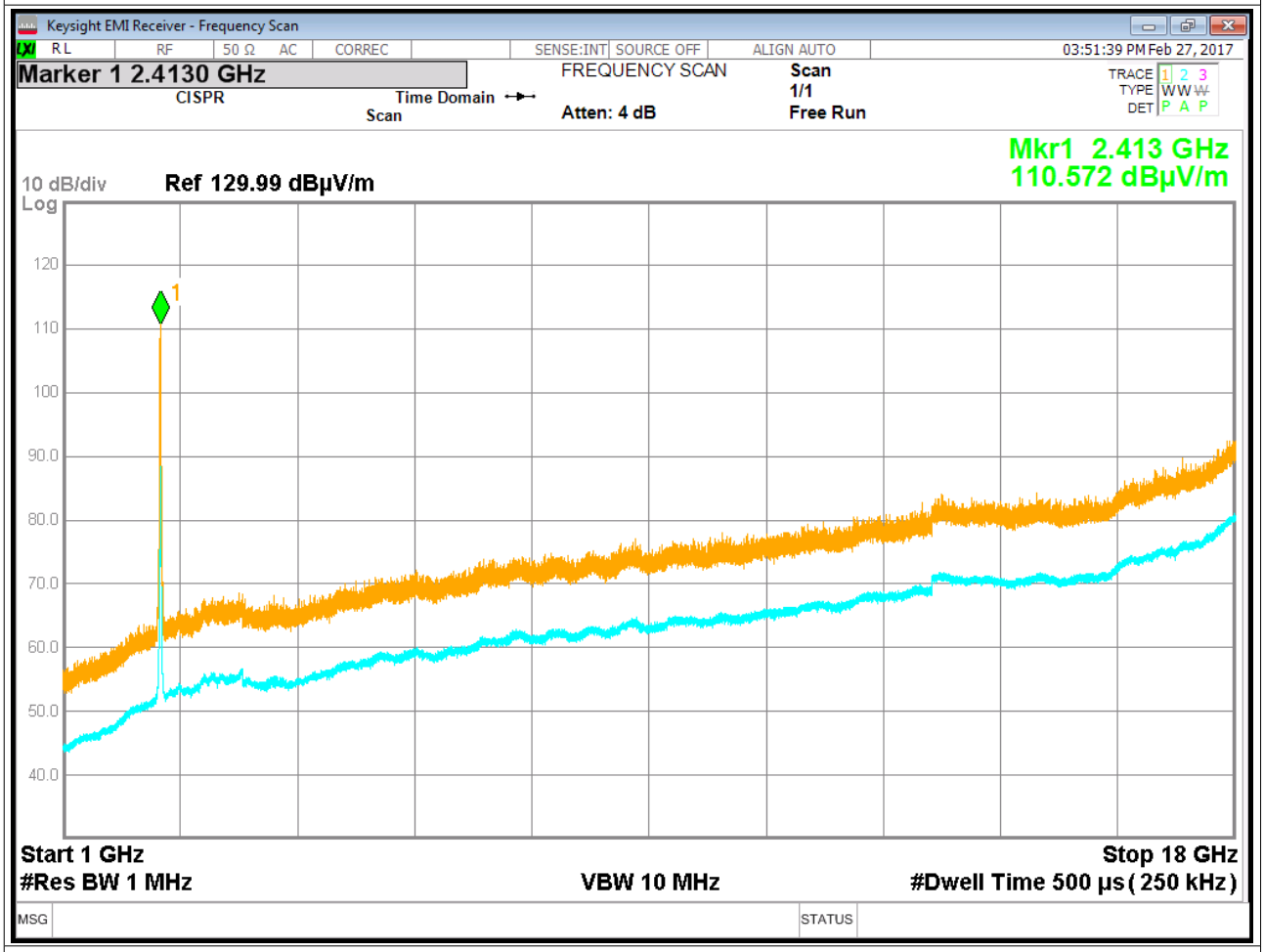
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type b
max speed (11 Mbps)



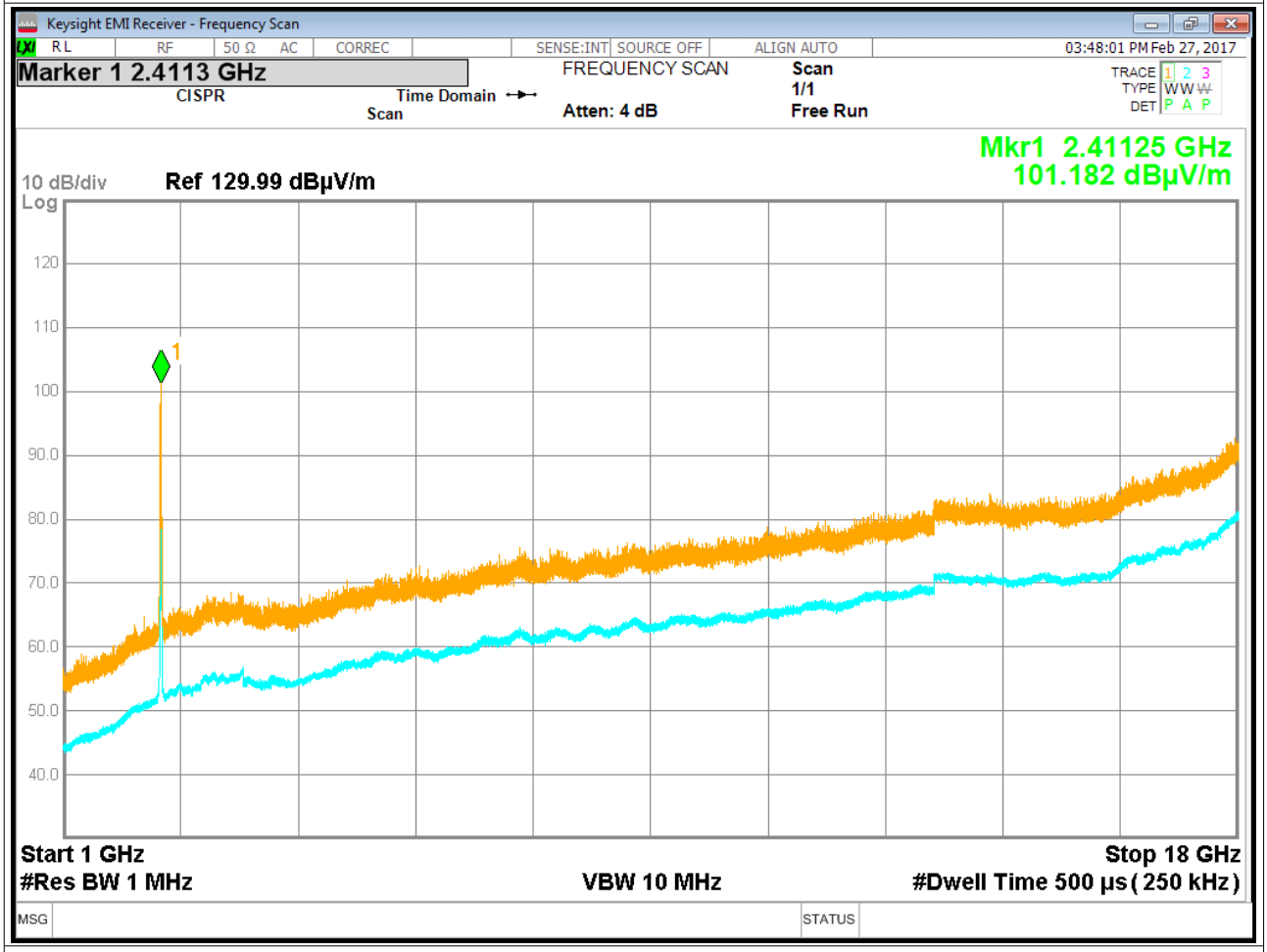
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type b
max speed (11 Mbps)



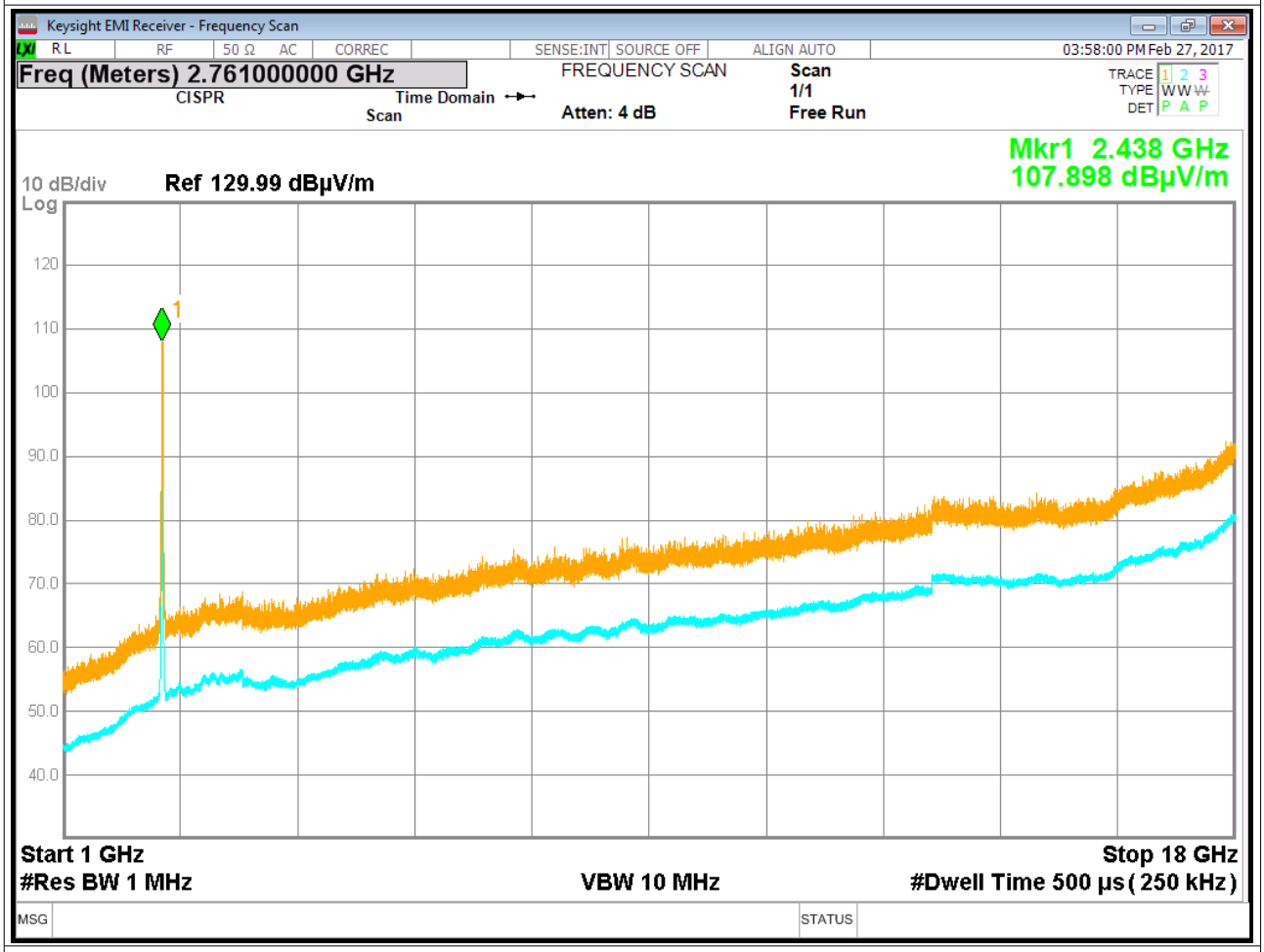
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type g
max speed (54 Mbps)



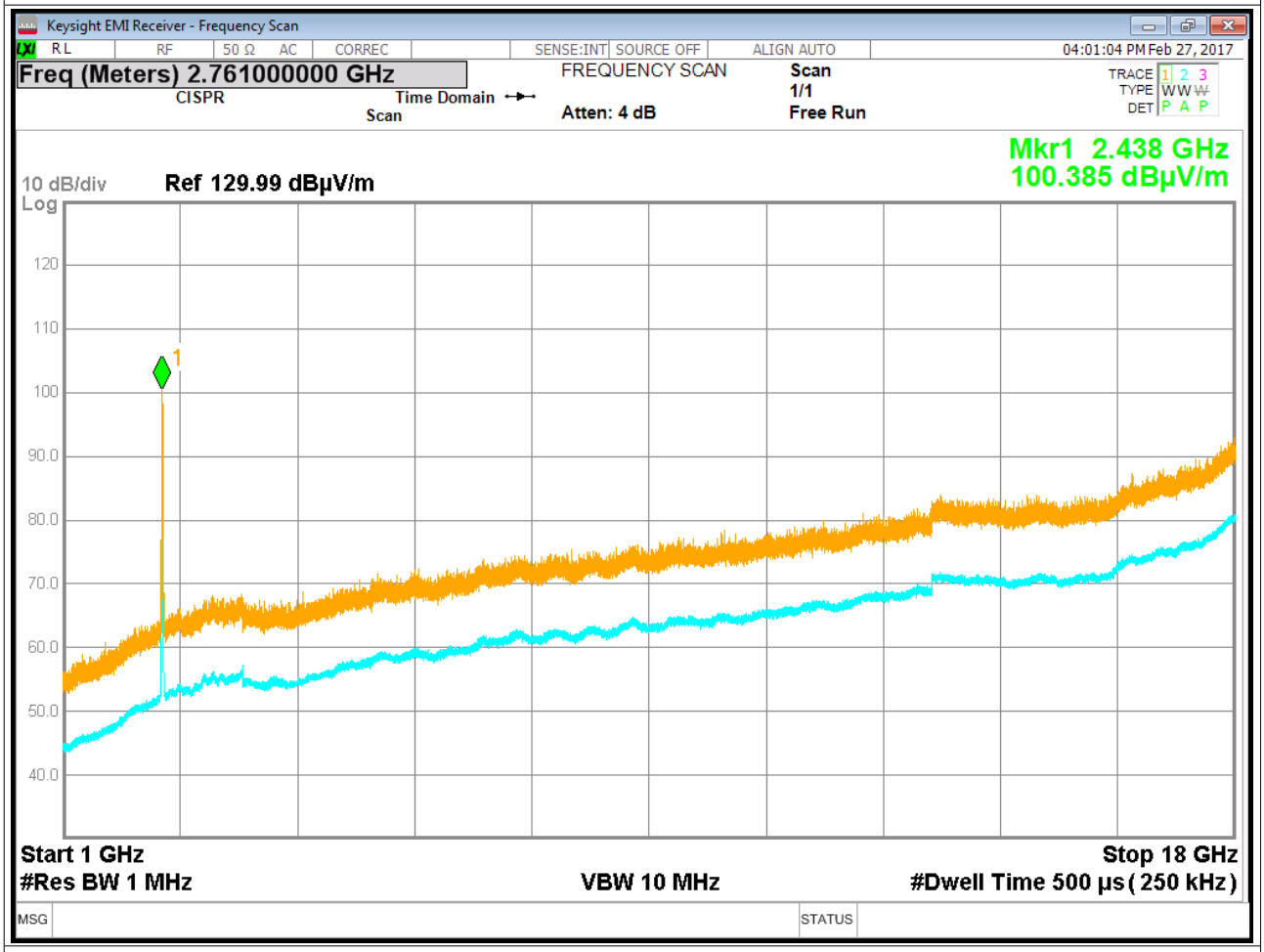
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type g
max speed (54 Mbps)



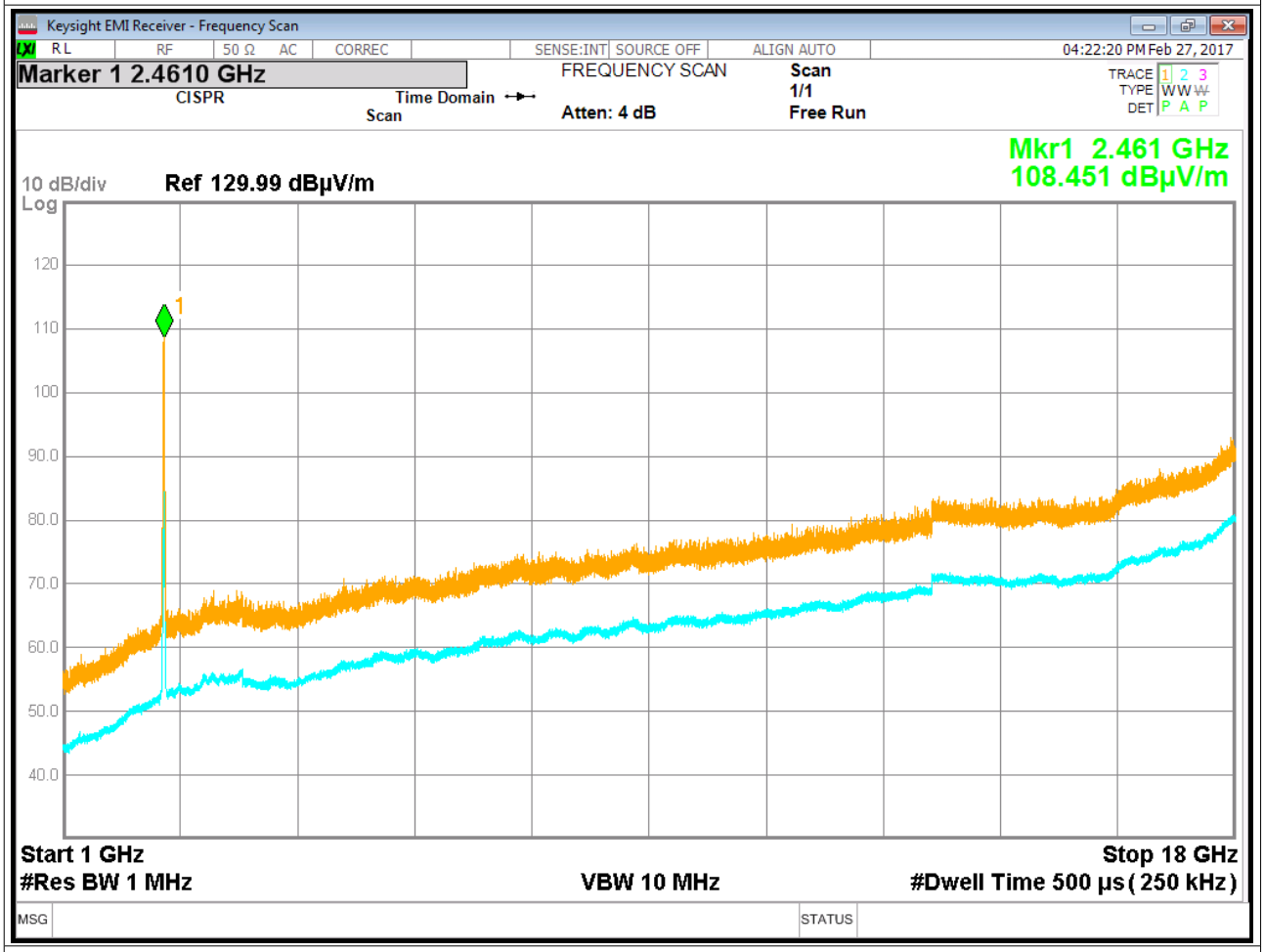
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type g
max speed (54 Mbps)



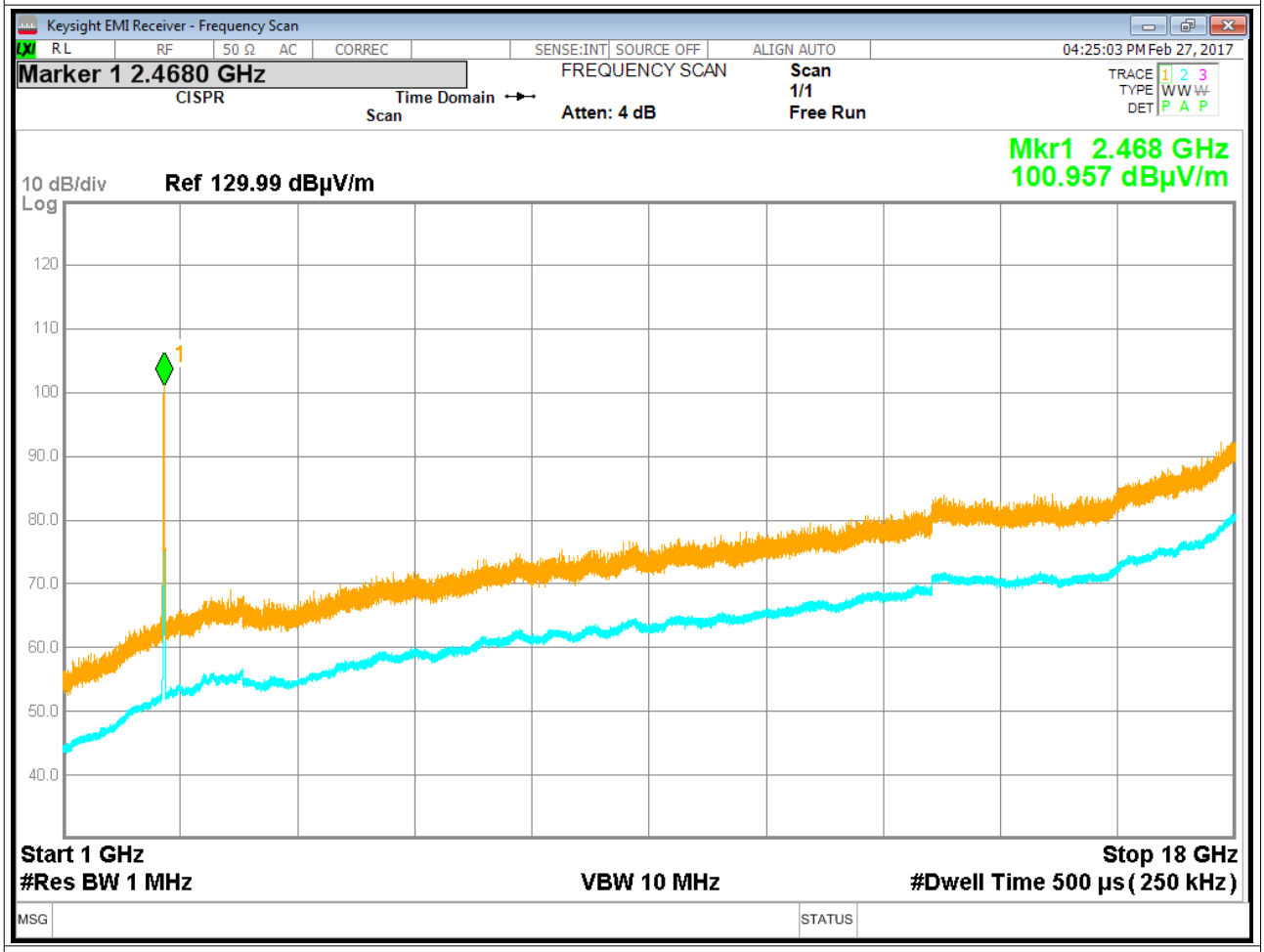
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type g
max speed (54 Mbps)



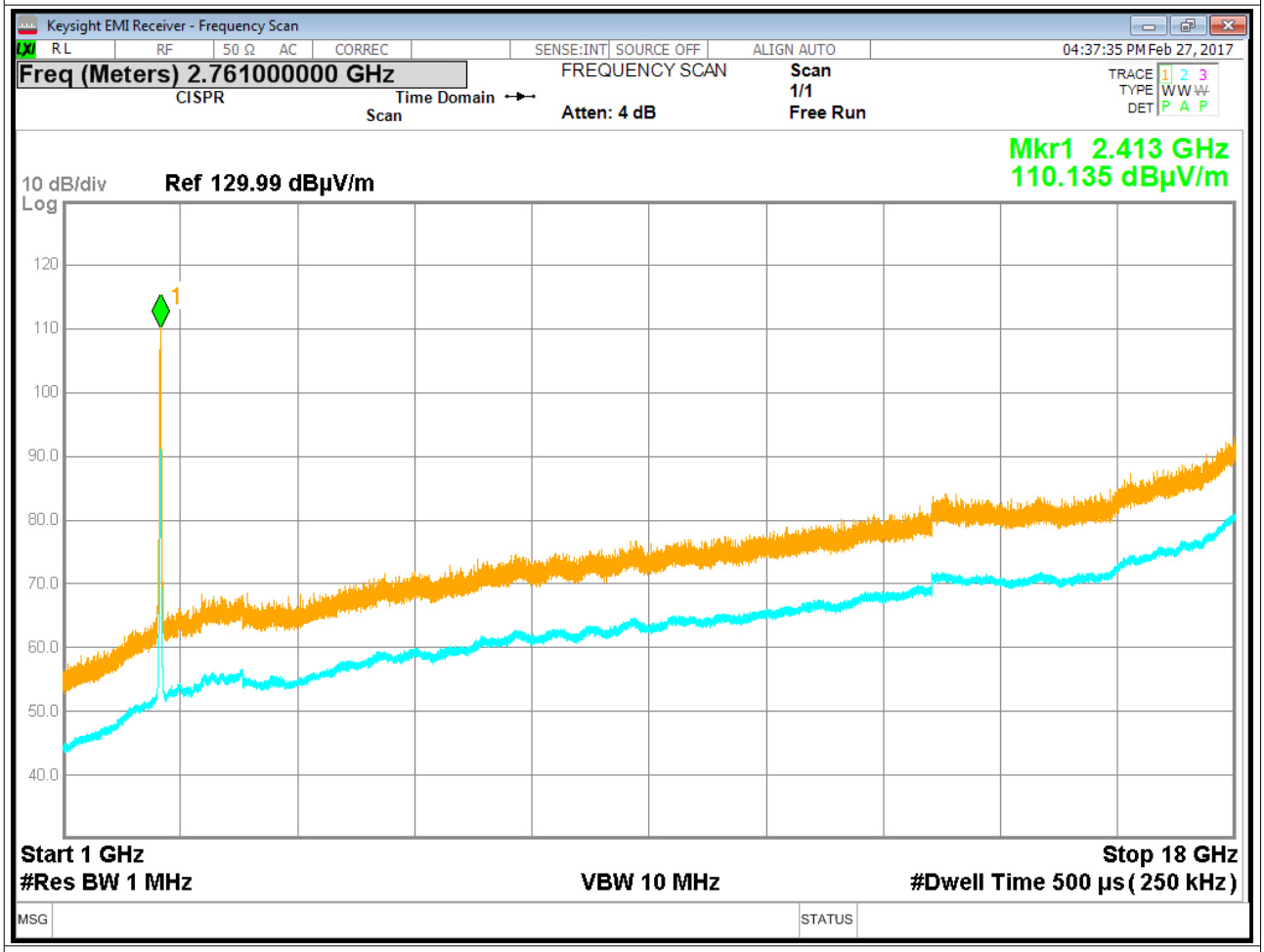
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type g
max speed (54 Mbps)



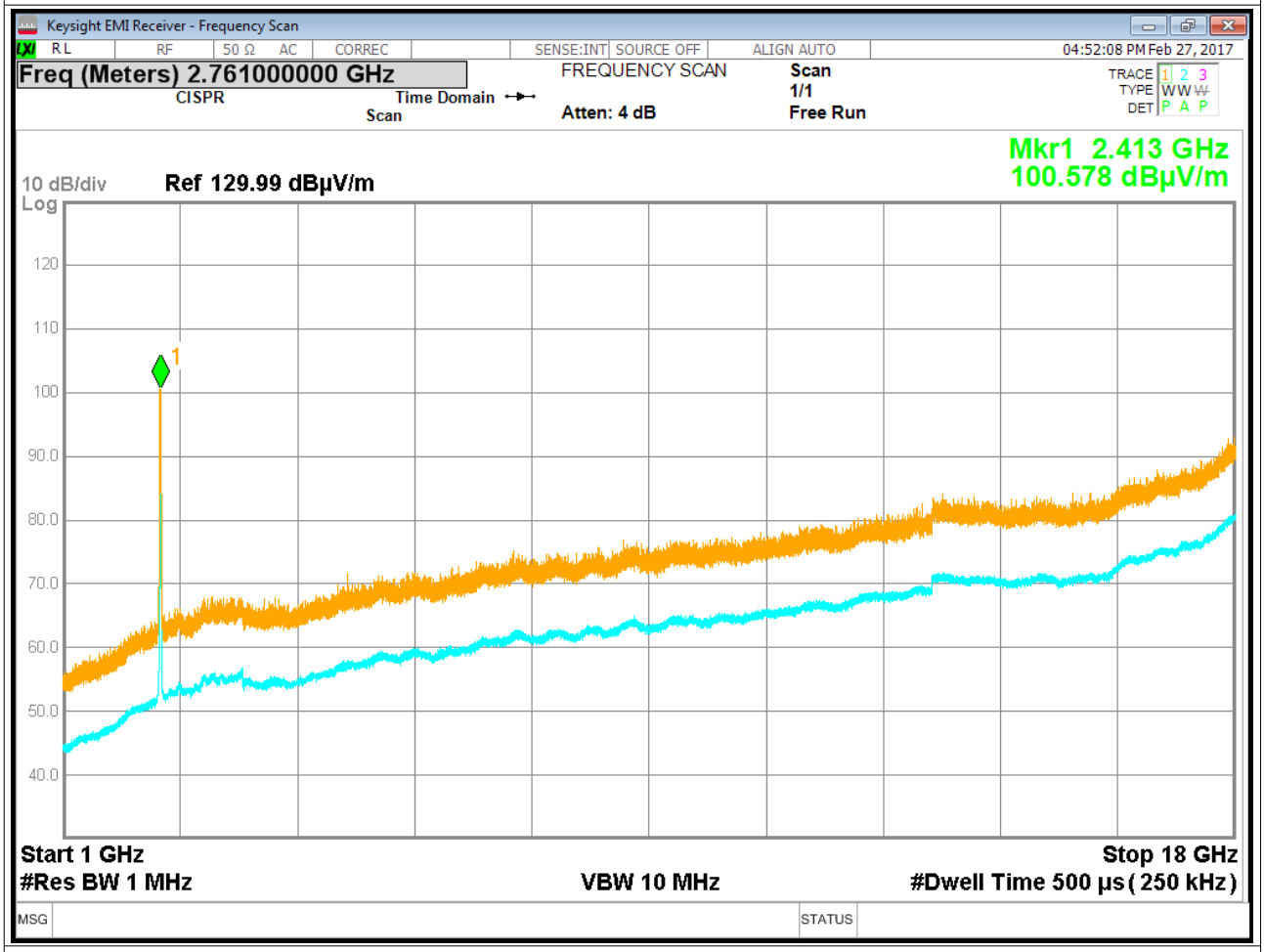
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type g
max speed (54 Mbps)



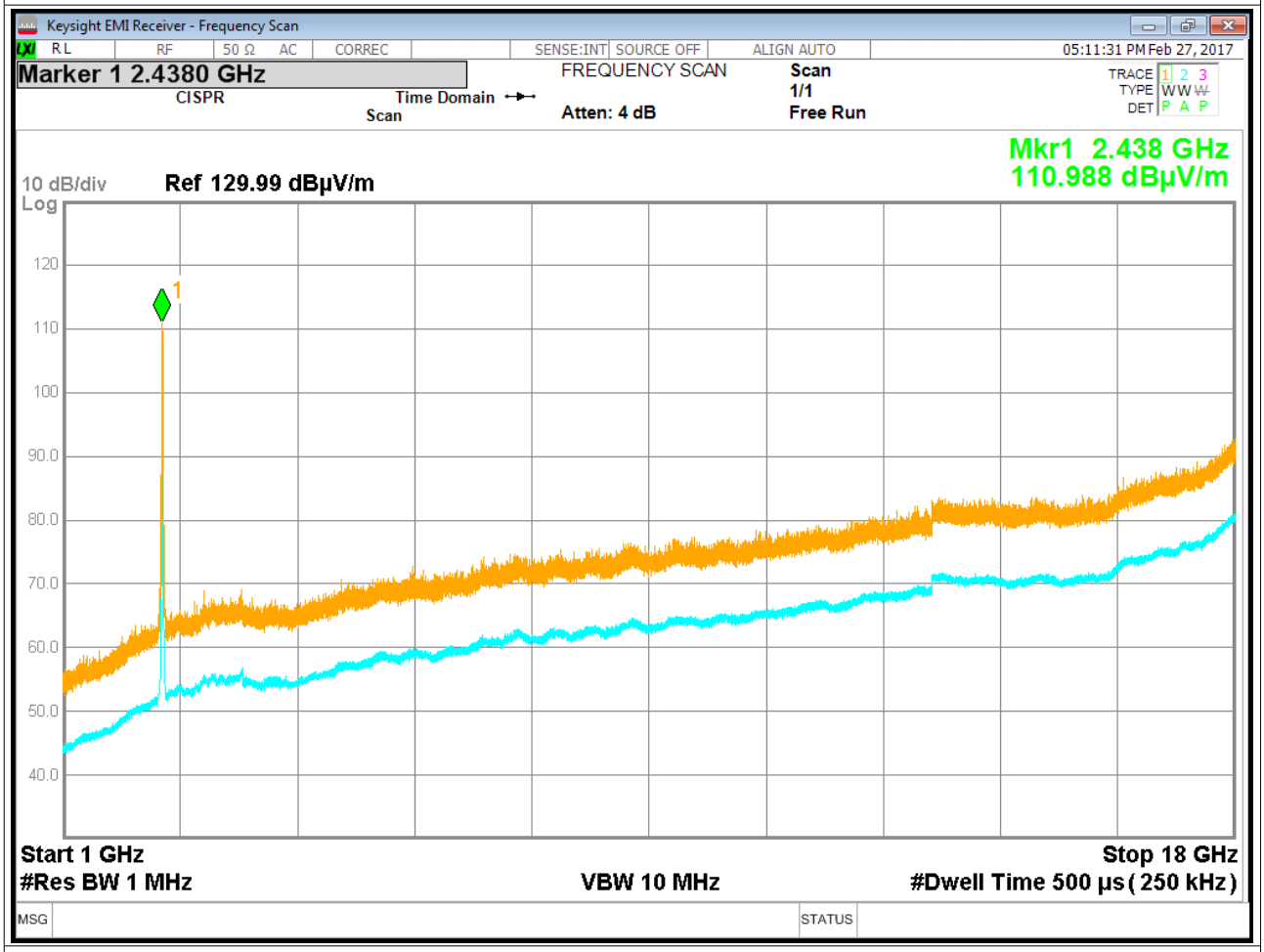
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



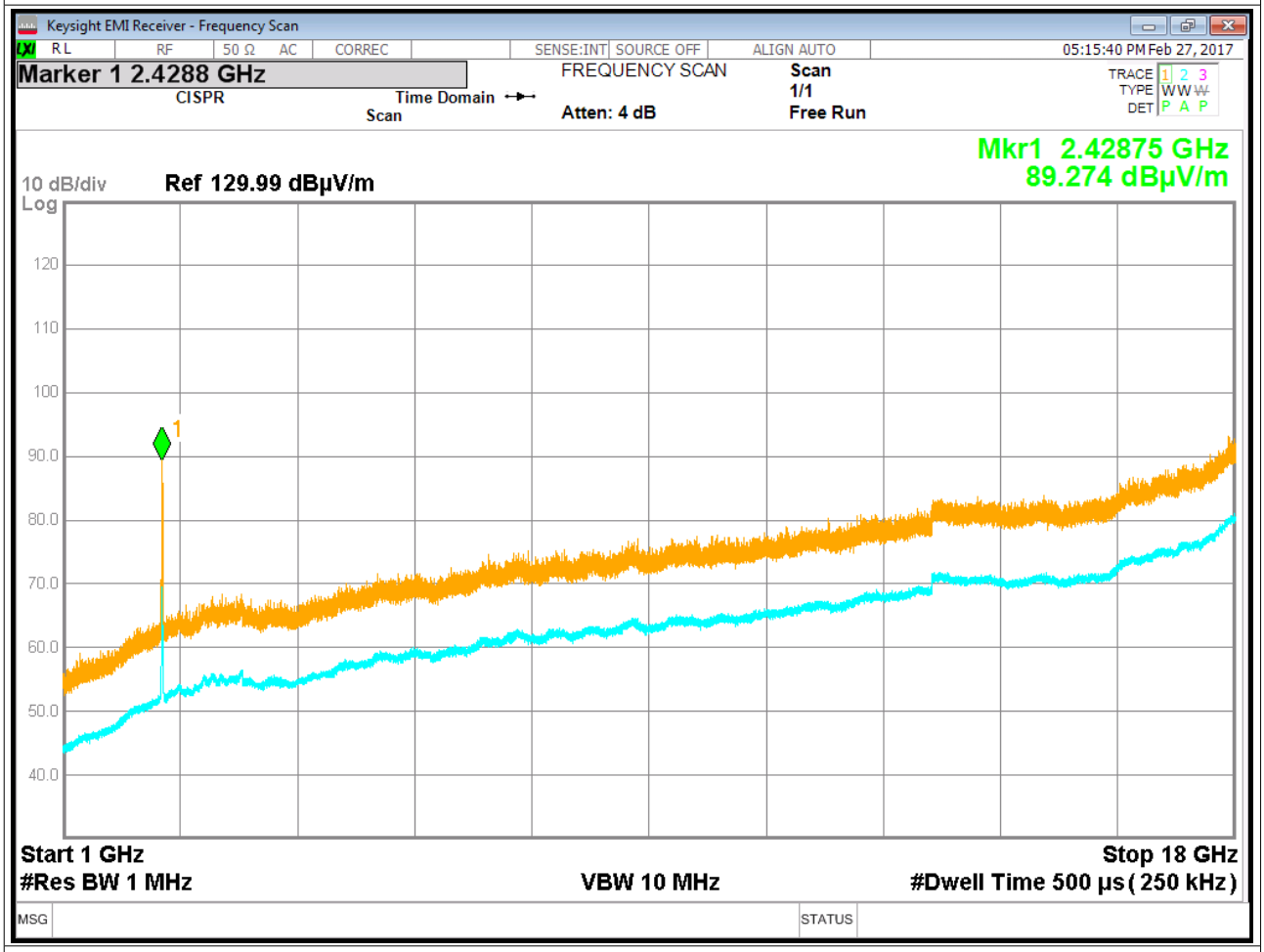
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 1
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



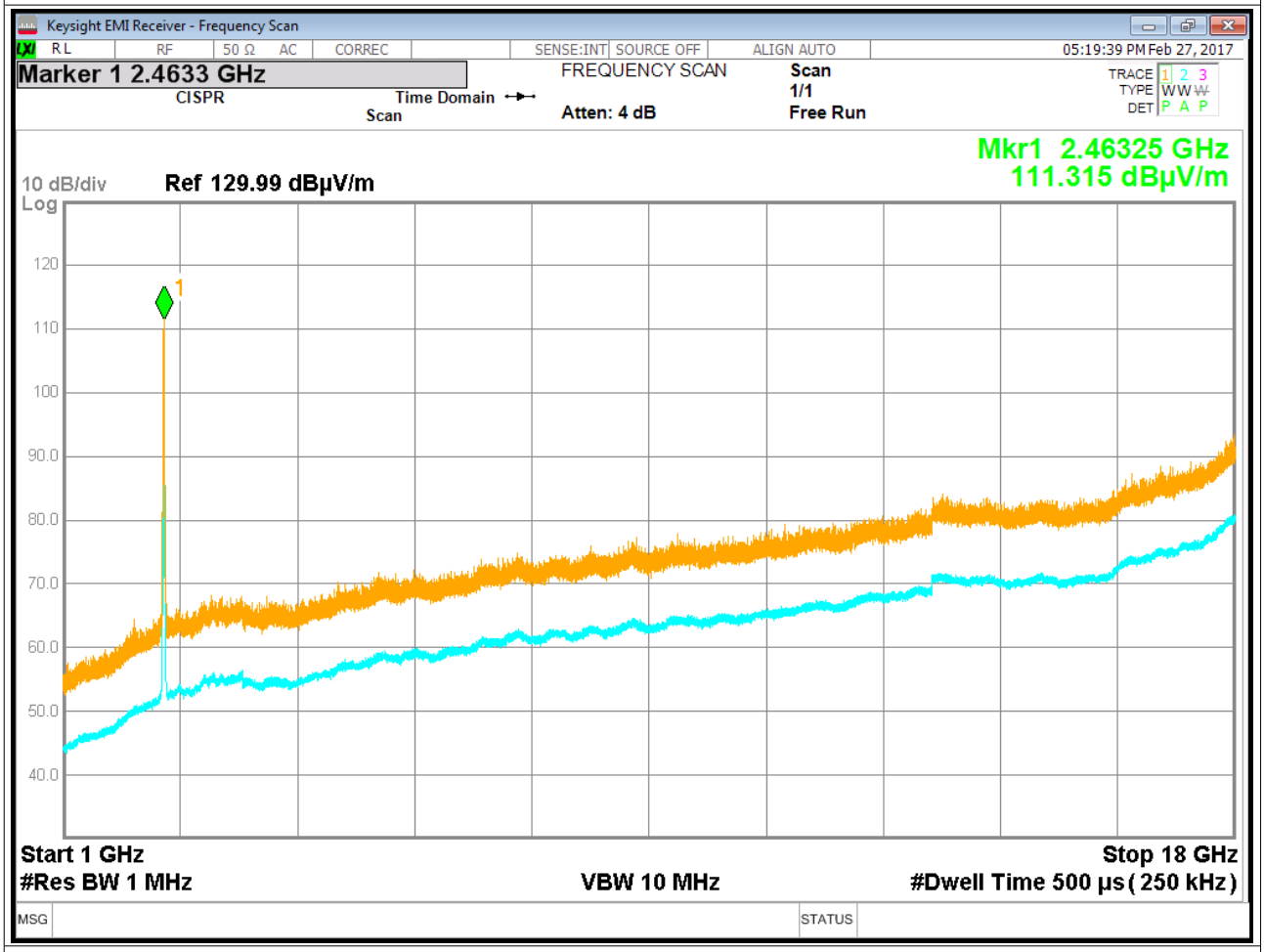
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



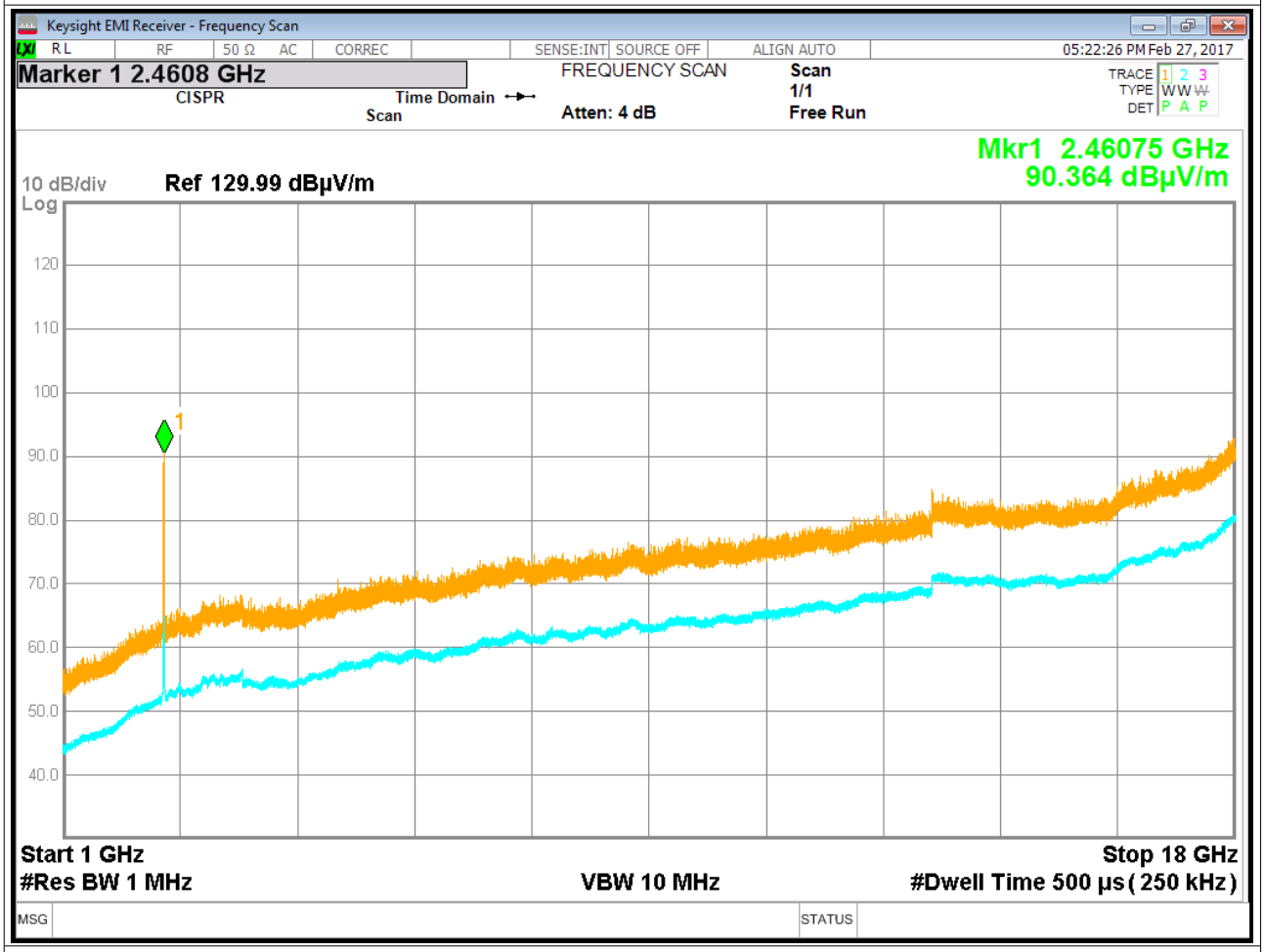
Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 6
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



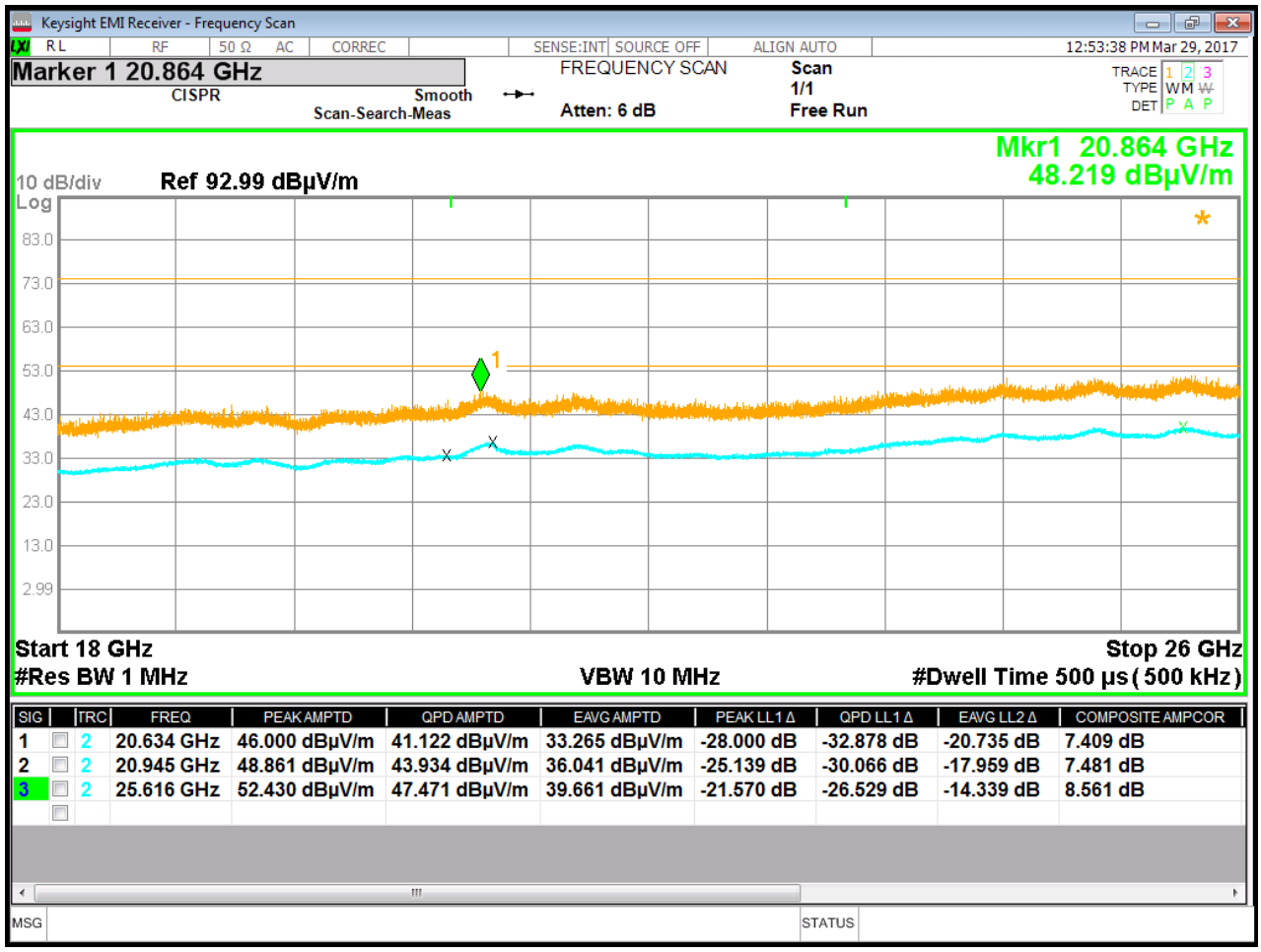
Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



Note:

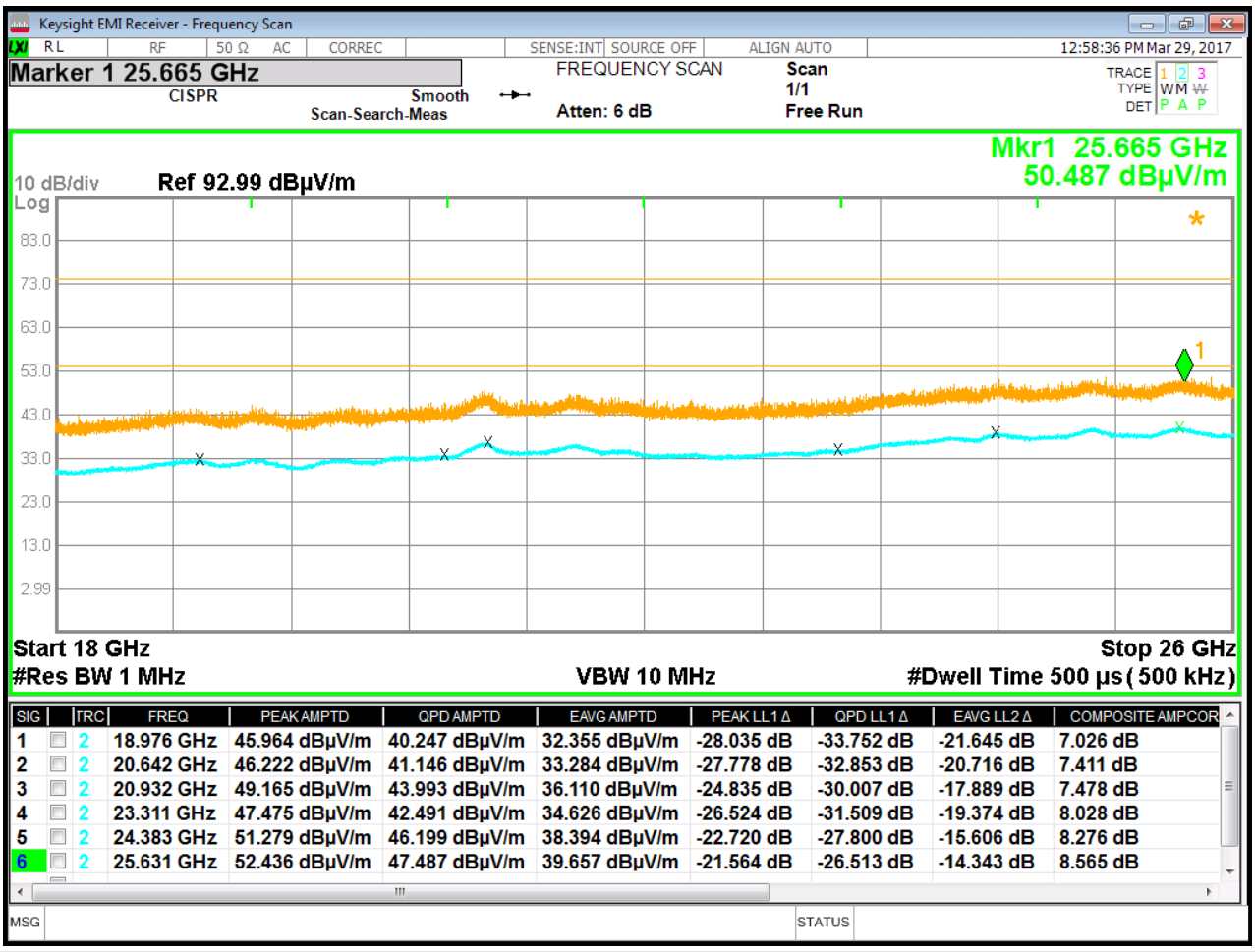
EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON
channel 11
modulation type n
max speed (mcs7; 20MHz; 65 Mbps)



SIG	TRC	FREQ	PEAK AMPTD	QPD AMPTD	EAVG AMPTD	PEAK LL1 Δ	QPD LL1 Δ	EAVG LL2 Δ	COMPOSITE AMPCOR
1	2	20.634 GHz	46.000 dBµV/m	41.122 dBµV/m	33.265 dBµV/m	-28.000 dB	-32.878 dB	-20.735 dB	7.409 dB
2	2	20.945 GHz	48.861 dBµV/m	43.934 dBµV/m	36.041 dBµV/m	-25.139 dB	-30.066 dB	-17.959 dB	7.481 dB
3	2	25.616 GHz	52.430 dBµV/m	47.471 dBµV/m	39.661 dBµV/m	-21.570 dB	-26.529 dB	-14.339 dB	8.561 dB

Note:

EUT
Pol. V
-
-
EUT mode: operative
Auxiliary apparatus: all ON



SIG	TRC	FREQ	PEAK AMPTD	QPD AMPTD	EAVG AMPTD	PEAK LL1 Δ	QPD LL1 Δ	EAVG LL2 Δ	COMPOSITE AMPCOR
1	2	18.976 GHz	45.964 dBµV/m	40.247 dBµV/m	32.355 dBµV/m	-28.035 dB	-33.752 dB	-21.645 dB	7.026 dB
2	2	20.642 GHz	46.222 dBµV/m	41.146 dBµV/m	33.284 dBµV/m	-27.778 dB	-32.853 dB	-20.716 dB	7.411 dB
3	2	20.932 GHz	49.165 dBµV/m	43.993 dBµV/m	36.110 dBµV/m	-24.835 dB	-30.007 dB	-17.889 dB	7.478 dB
4	2	23.311 GHz	47.475 dBµV/m	42.491 dBµV/m	34.626 dBµV/m	-26.524 dB	-31.509 dB	-19.374 dB	8.028 dB
5	2	24.383 GHz	51.279 dBµV/m	46.199 dBµV/m	38.394 dBµV/m	-22.720 dB	-27.800 dB	-15.606 dB	8.276 dB
6	2	25.631 GHz	52.436 dBµV/m	47.487 dBµV/m	39.657 dBµV/m	-21.564 dB	-26.513 dB	-14.343 dB	8.565 dB

Note:

EUT
Pol. H
-
-
EUT mode: operative
Auxiliary apparatus: all ON

9. PHOTOS

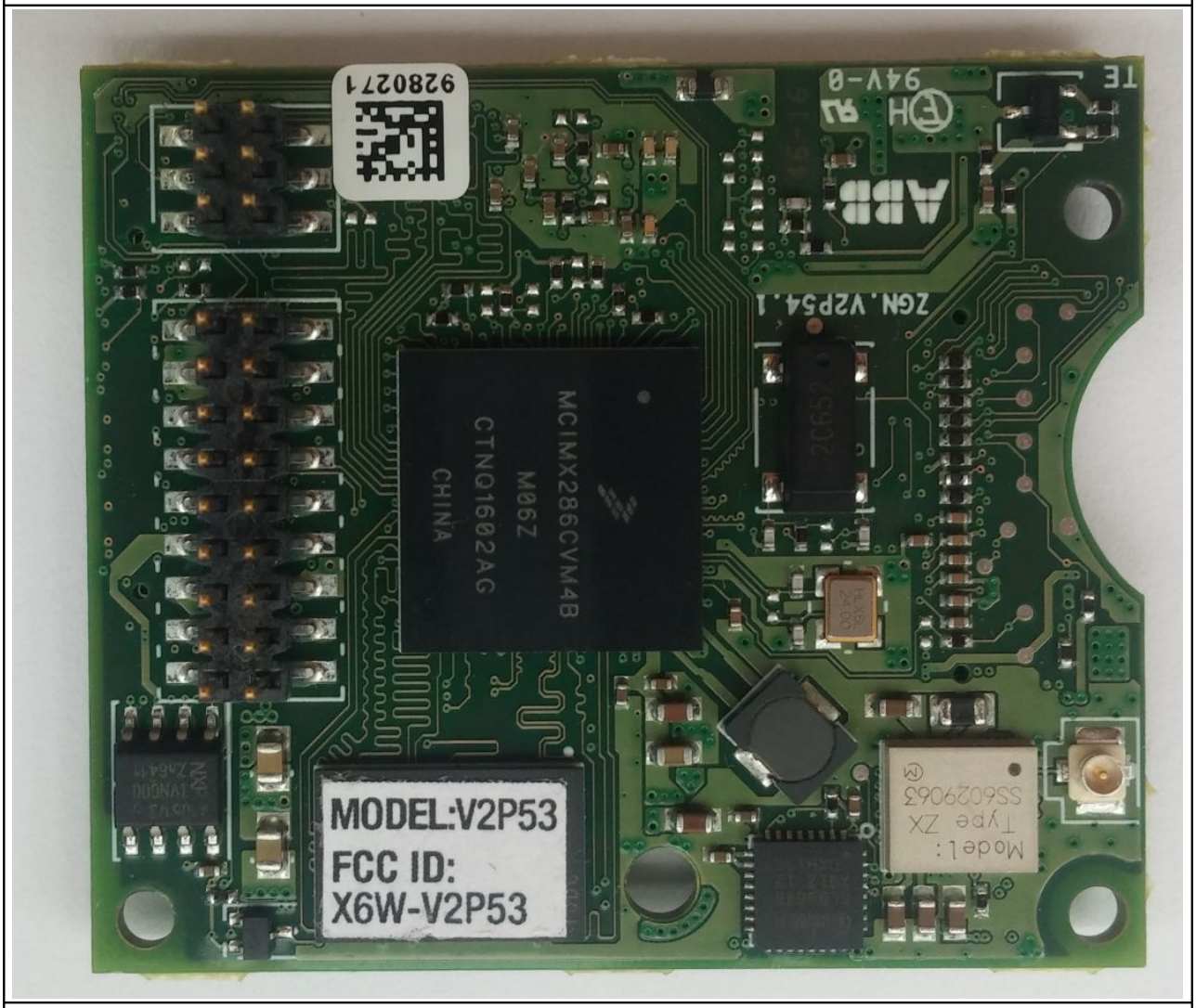


Fig. 9.1

V2P53 – Top Side

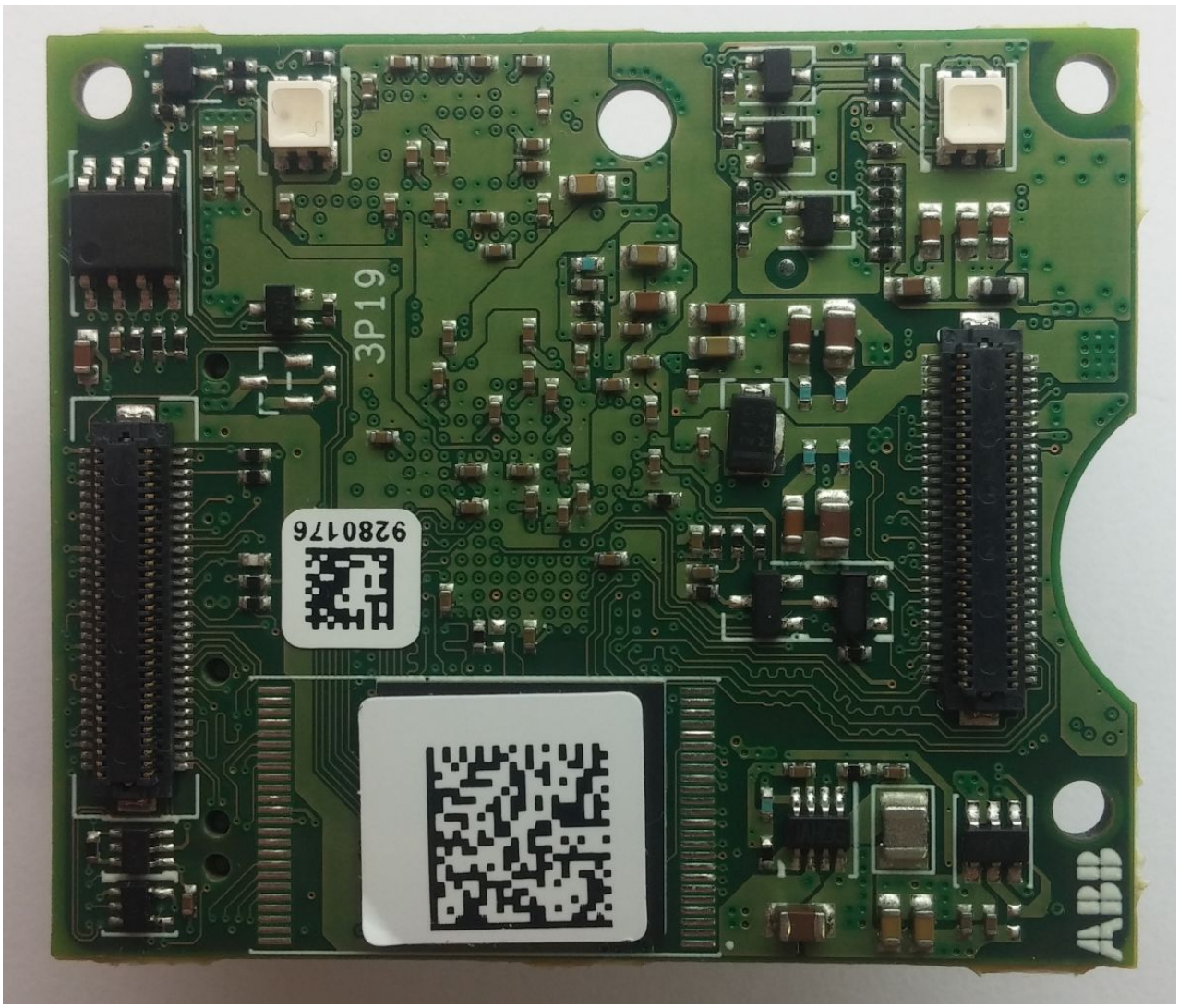


Fig. 9.2

V2P53 – Bottom Side

Fig. 9.3

Radiated Emissions Test Set-up (9kHz - 30MHz)

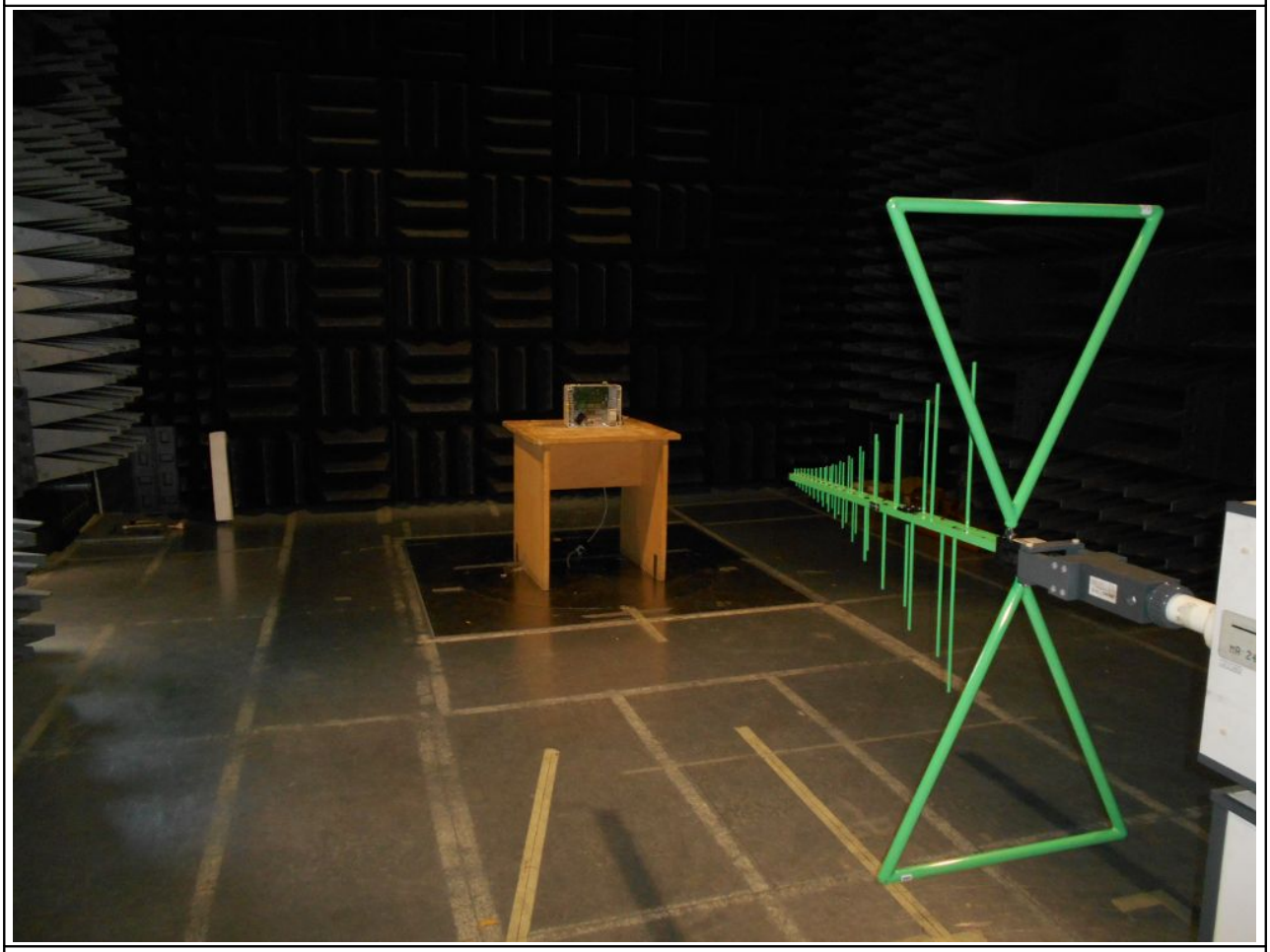


Fig. 9.4

Radiated Emissions Test Set-up (30MHz – 1 GHz)

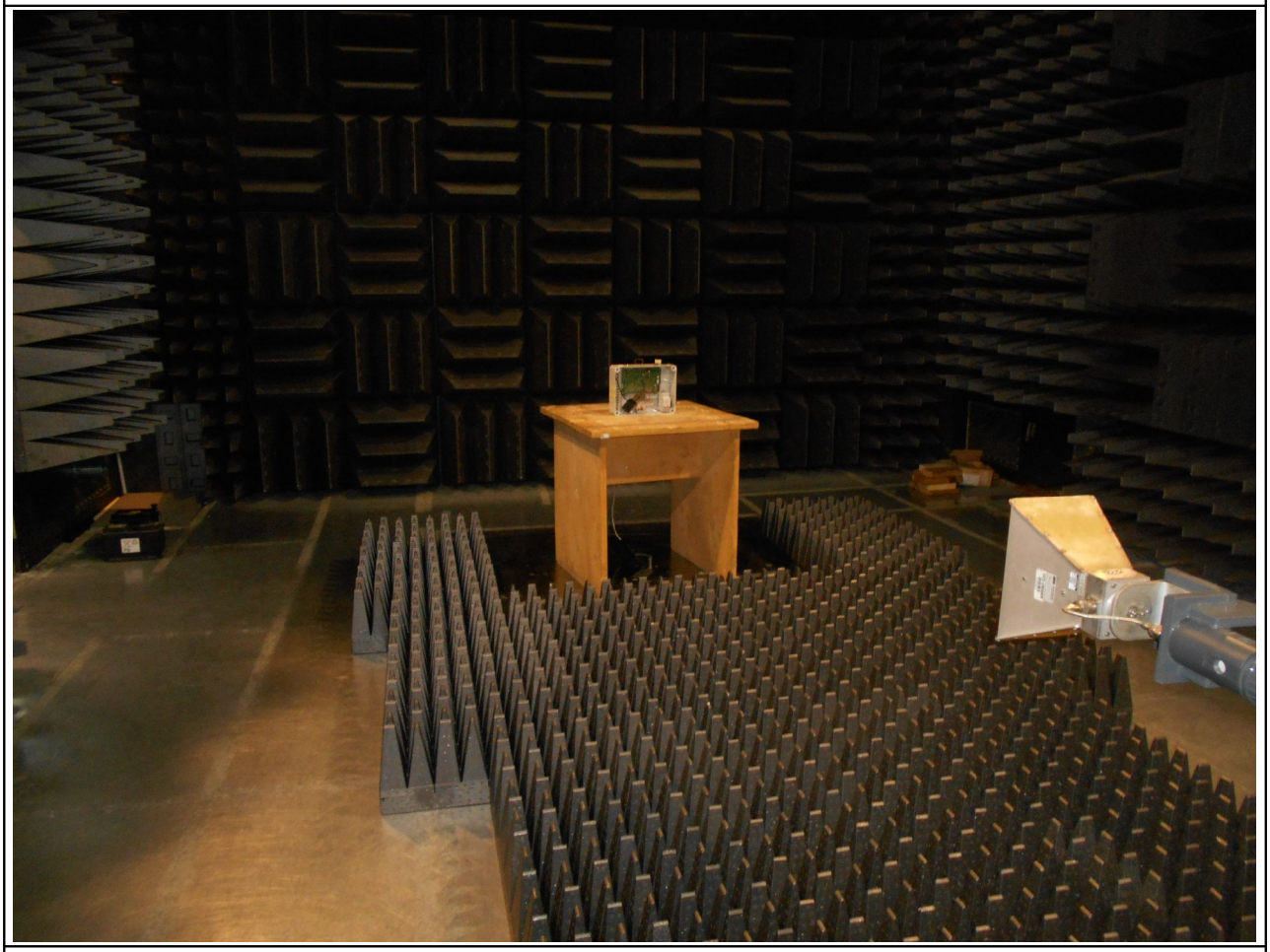


Fig. 9.5

Radiated Emissions Test Set-up (1GHz – 18GHz)

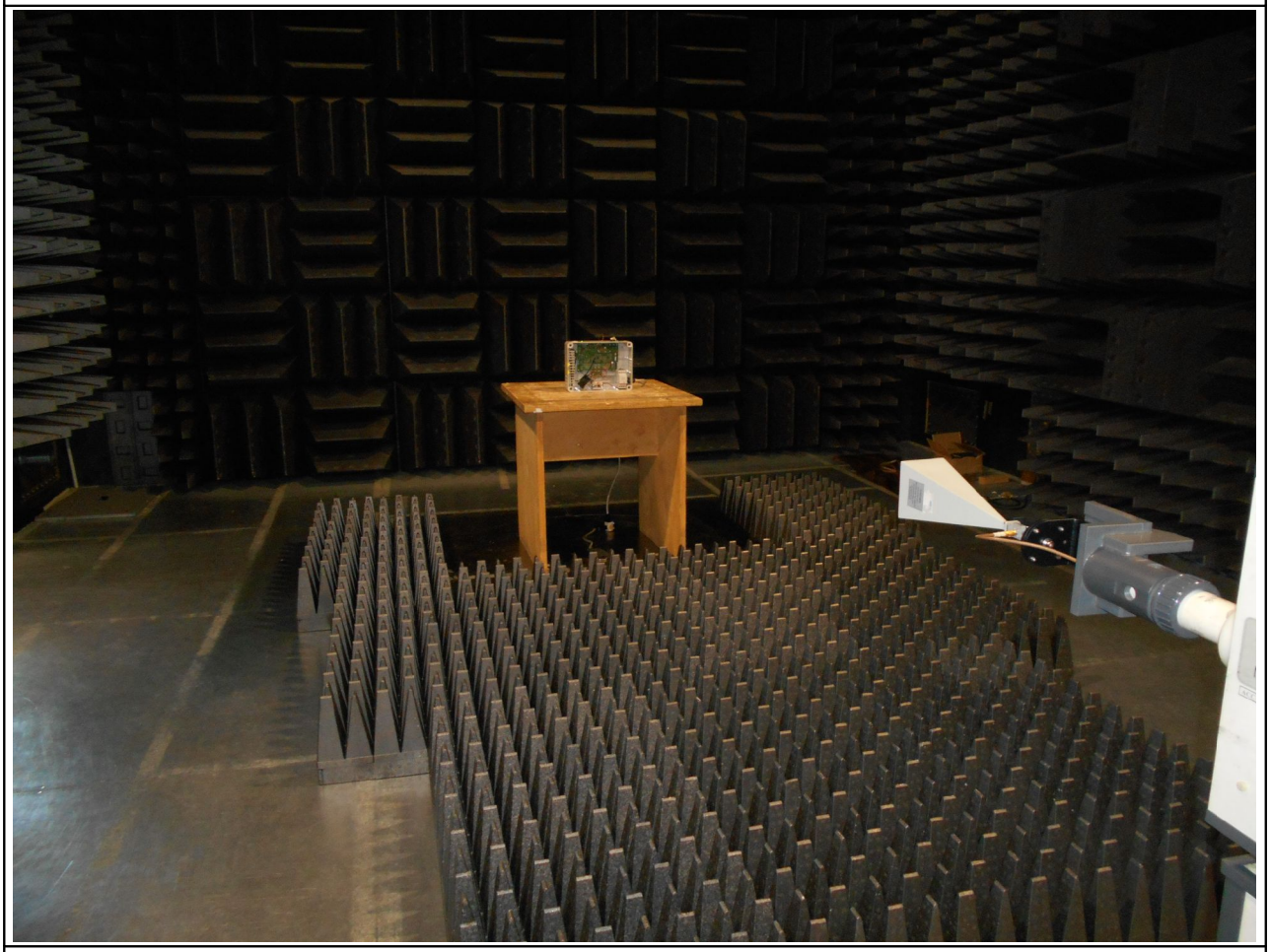


Fig. 9.6

Radiated Emissions Test Set-up (1GHz - 26GHz)

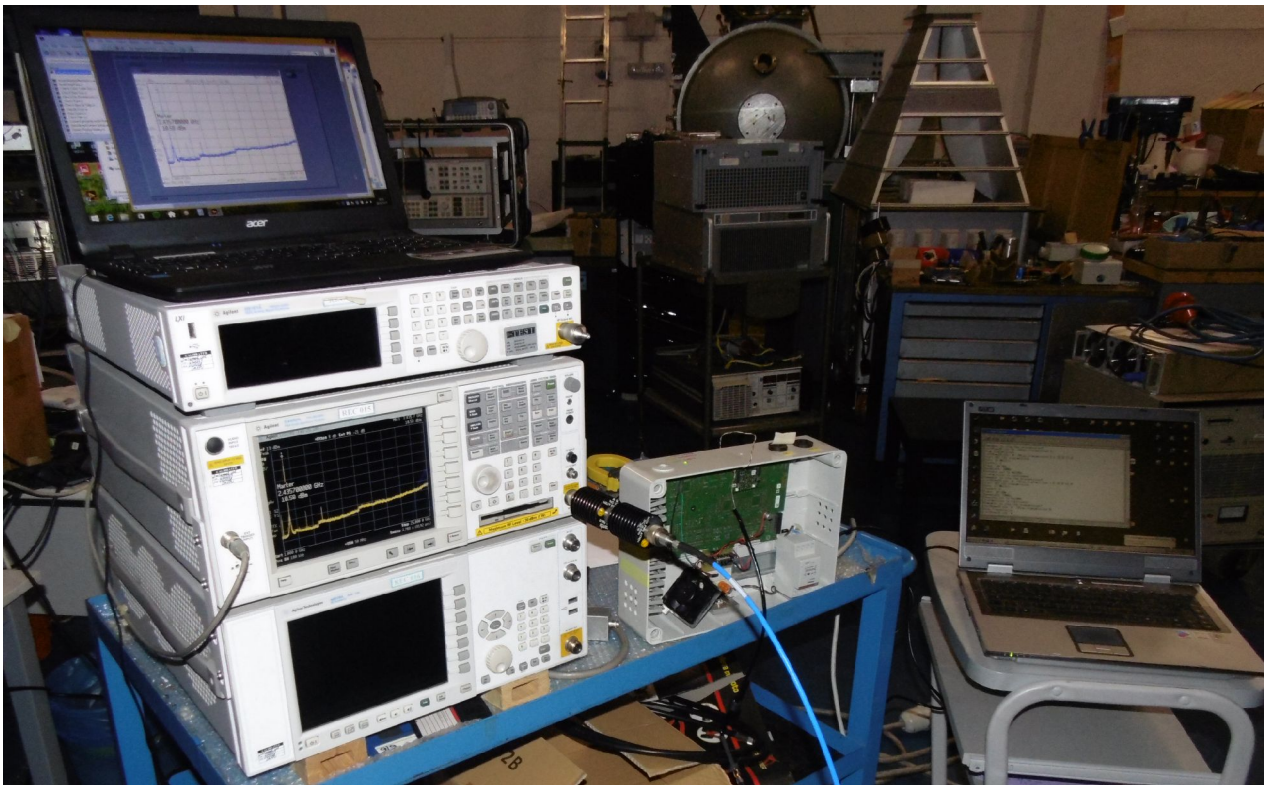


Fig. 9.7

Antenna Port Conducted Emissions Test Set-up