

11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 §6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2) RSS-247 §6.2.2.2		
15.407(b)(3) RSS-247 §6.2.3.2		
15.407(b)(4)(i) RSS-247 §6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/04/2020	01/04/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
Loop Antenna	ETS.LINDGREN	6502	148045	10/15/2019	10/14/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 7	1166.5950.07	07/04/2019	07/03/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	01/02/2020	01/01/2021
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2020	01/01/2021
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2020	01/01/2021
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021

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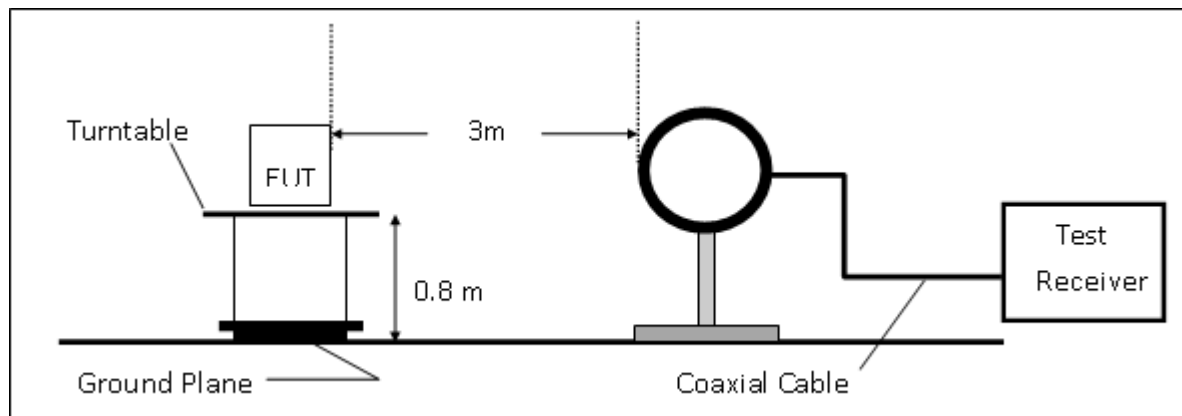
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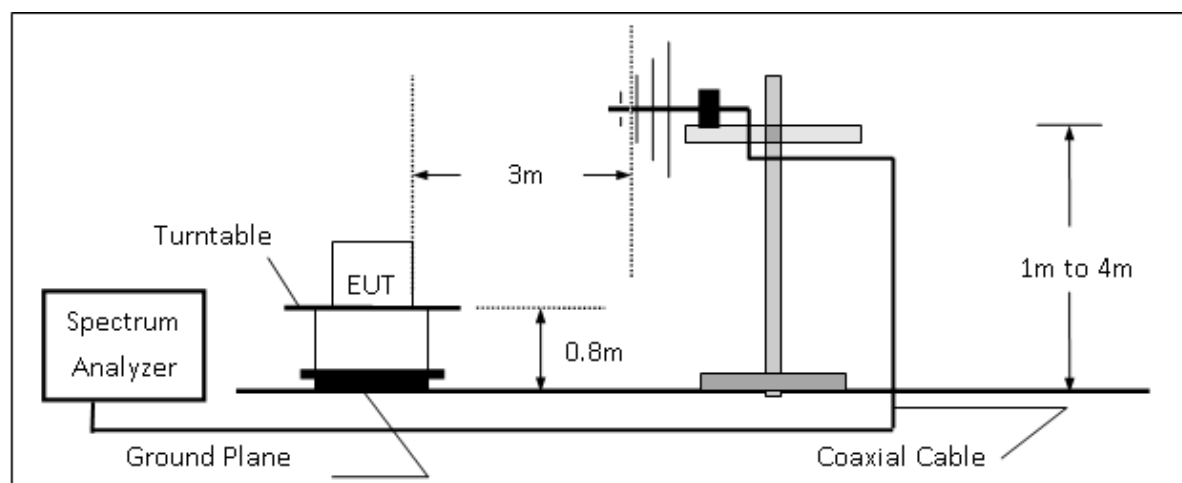
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11.3 Test SET-UP

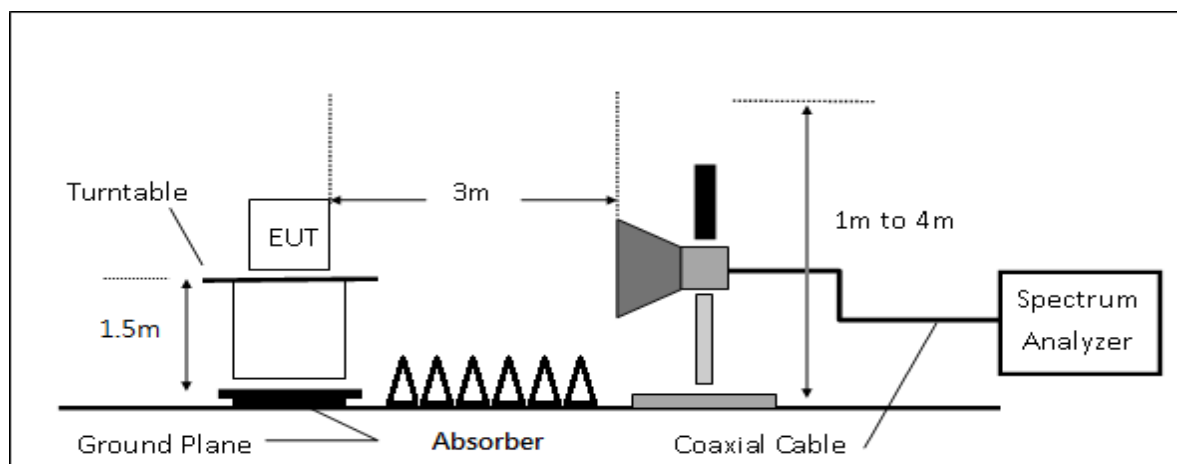
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

Pre-scanned was done at frequency 5.47 GHz and 5.85 GHz for bandedge measurement of straddle channels 138, 142 and 144 which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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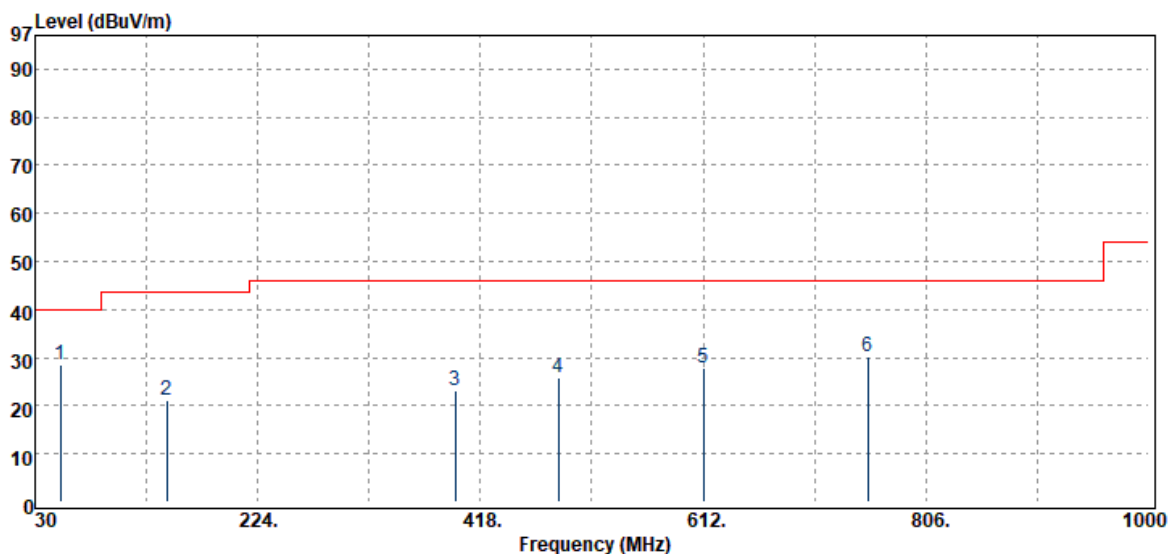
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11.7 Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	36.31	-7.72	28.59	40.00	-11.41
144.46	Peak	28.21	-7.22	20.99	43.50	-22.51
395.69	Peak	27.07	-4.02	23.05	46.00	-22.95
485.90	Peak	28.37	-2.43	25.94	46.00	-20.06
612.00	Peak	28.25	-0.34	27.91	46.00	-18.09
755.56	Peak	27.26	2.87	30.13	46.00	-15.87

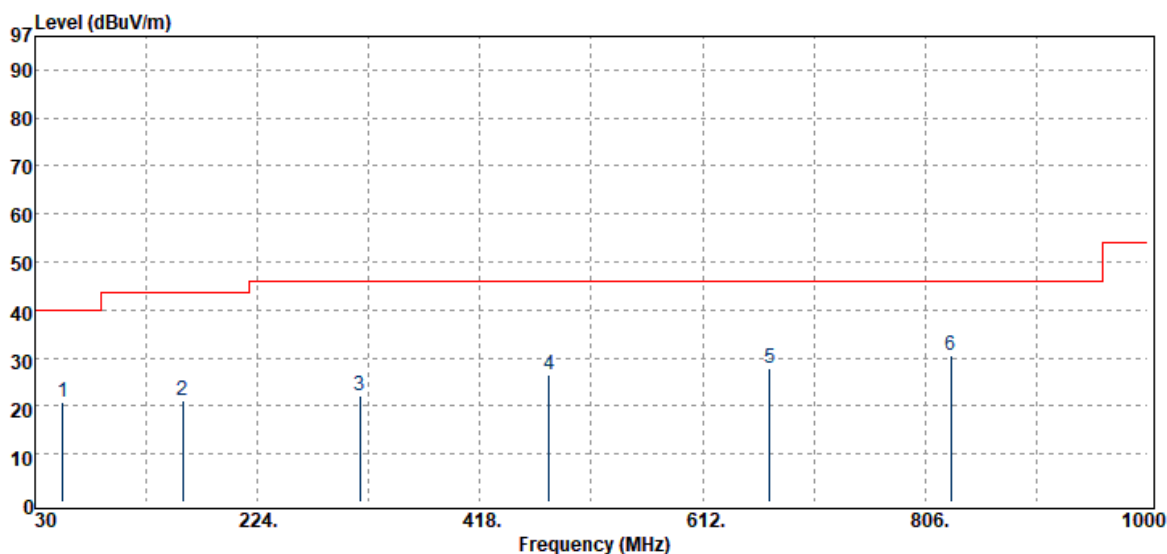
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	28.65	-7.83	20.82	40.00	-19.18
159.01	Peak	28.13	-7.13	21.00	43.50	-22.50
313.24	Peak	27.94	-5.83	22.11	46.00	-23.89
478.14	Peak	29.03	-2.64	26.39	46.00	-19.61
670.20	Peak	27.29	0.61	27.90	46.00	-18.10
828.31	Peak	26.76	3.84	30.60	46.00	-15.40

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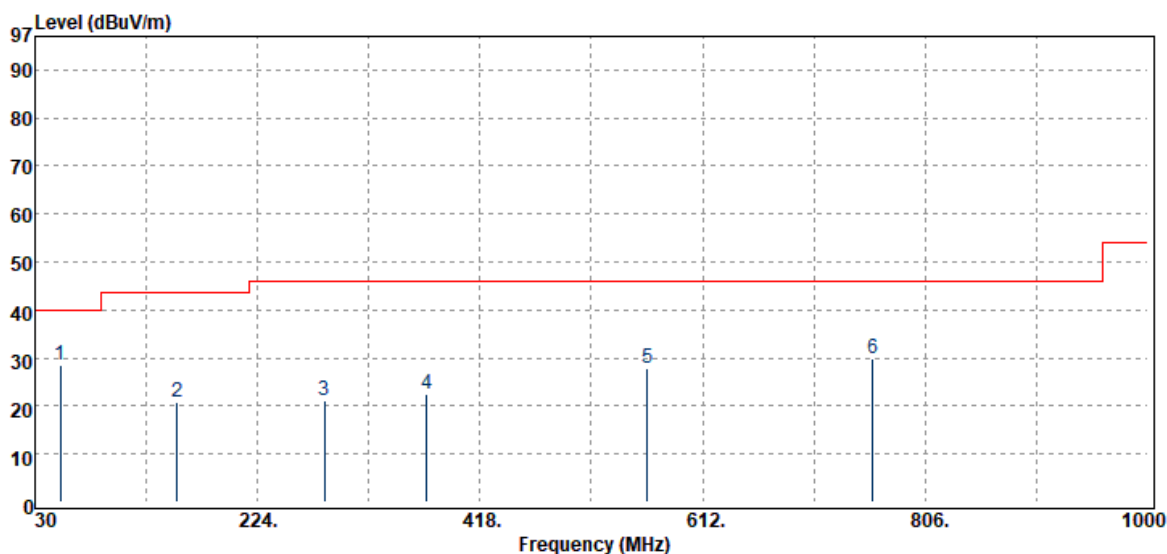
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	36.29	-7.72	28.57	40.00	-11.43
154.16	Peak	27.76	-6.99	20.77	43.50	-22.73
282.20	Peak	27.57	-6.44	21.13	46.00	-24.87
371.44	Peak	27.20	-4.61	22.59	46.00	-23.41
563.50	Peak	29.29	-1.33	27.96	46.00	-18.04
760.41	Peak	26.85	2.99	29.84	46.00	-16.16

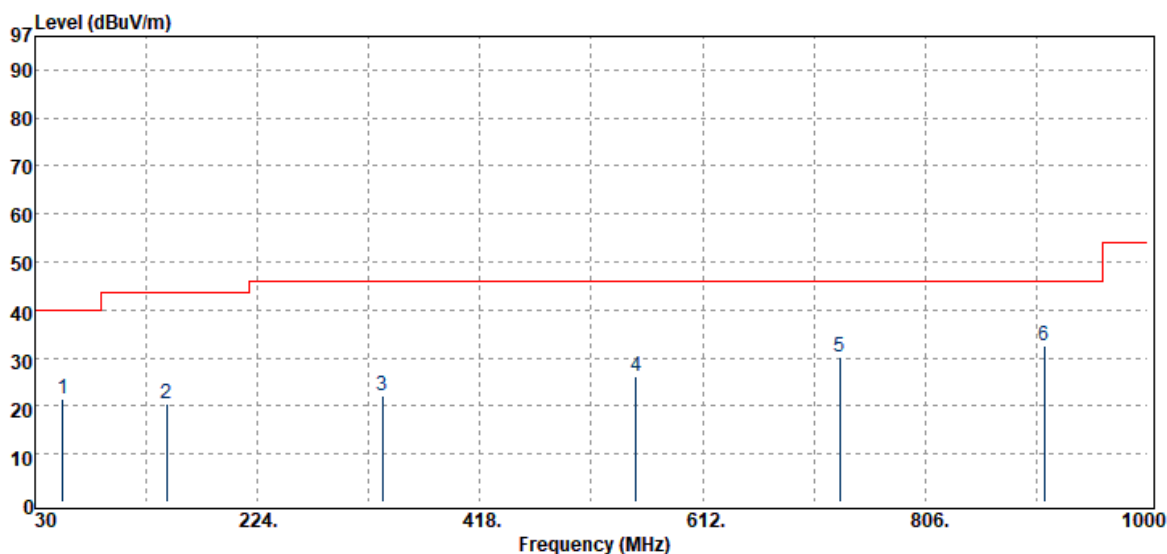
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Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	29.32	-7.83	21.49	40.00	-18.51
144.46	Peak	27.67	-7.22	20.45	43.50	-23.05
332.64	Peak	27.22	-4.97	22.25	46.00	-23.75
553.80	Peak	27.62	-1.52	26.10	46.00	-19.90
731.31	Peak	28.73	1.51	30.24	46.00	-15.76
909.79	Peak	26.81	5.65	32.46	46.00	-13.54

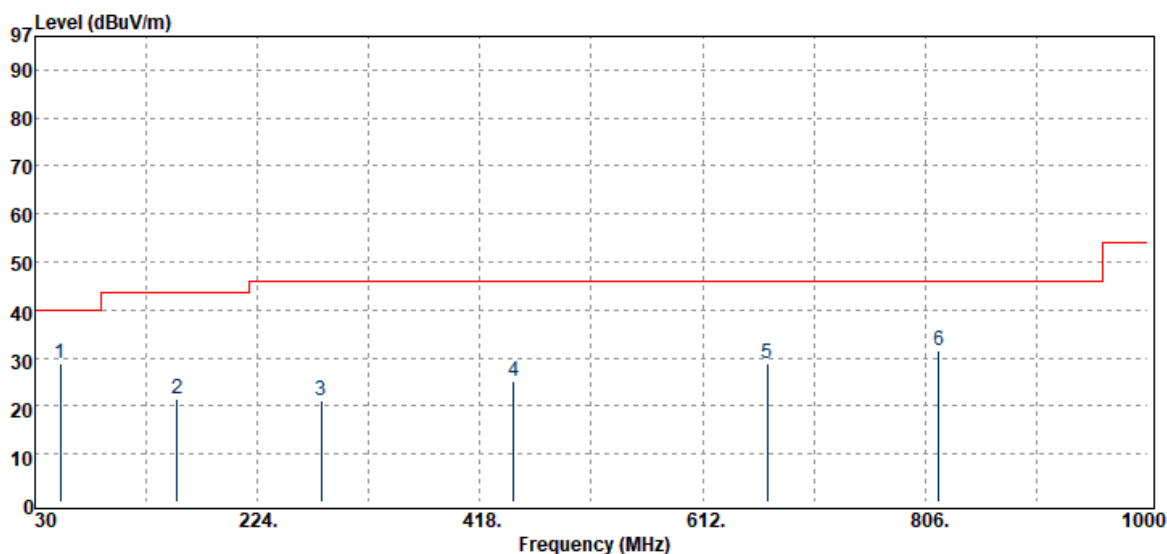
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 Test Channel :5580 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane

Test Date :2020-01-14
 Temp./Humi. :22.7/67
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	36.63	-7.72	28.91	40.00	-11.09
154.16	Peak	28.51	-6.99	21.52	43.50	-21.98
279.29	Peak	27.71	-6.49	21.22	46.00	-24.78
447.10	Peak	28.37	-3.31	25.06	46.00	-20.94
668.26	Peak	28.21	0.52	28.73	46.00	-17.27
817.64	Peak	28.55	3.12	31.67	46.00	-14.33

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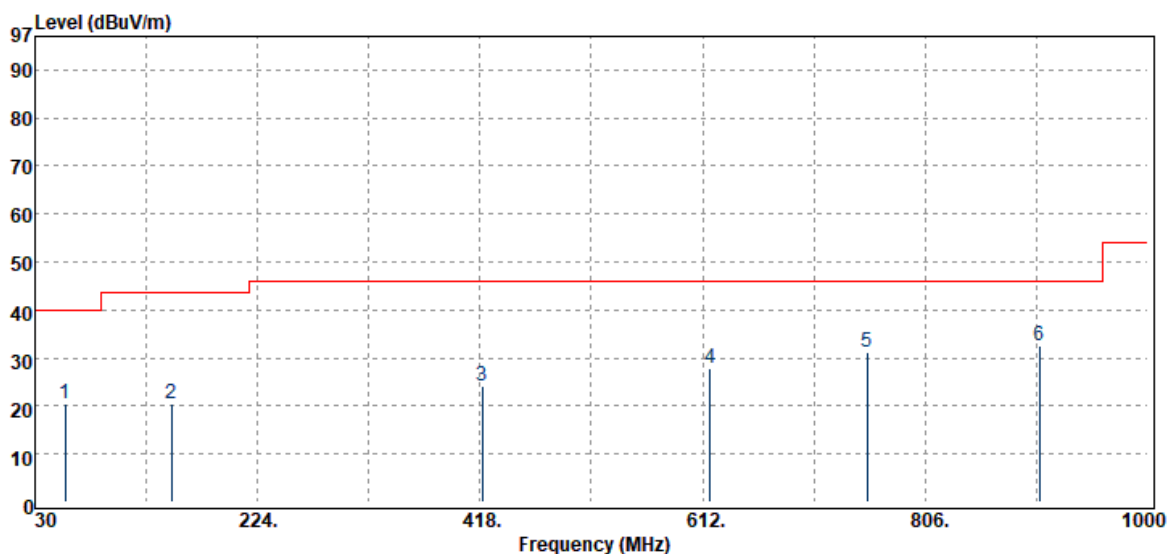
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5580 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	Peak	28.32	-7.97	20.35	40.00	-19.65
149.31	Peak	27.35	-7.01	20.34	43.50	-23.16
419.94	Peak	27.90	-3.73	24.17	46.00	-21.83
618.79	Peak	28.50	-0.61	27.89	46.00	-18.11
755.56	Peak	28.27	2.87	31.14	46.00	-14.86
905.91	Peak	27.16	5.43	32.59	46.00	-13.41

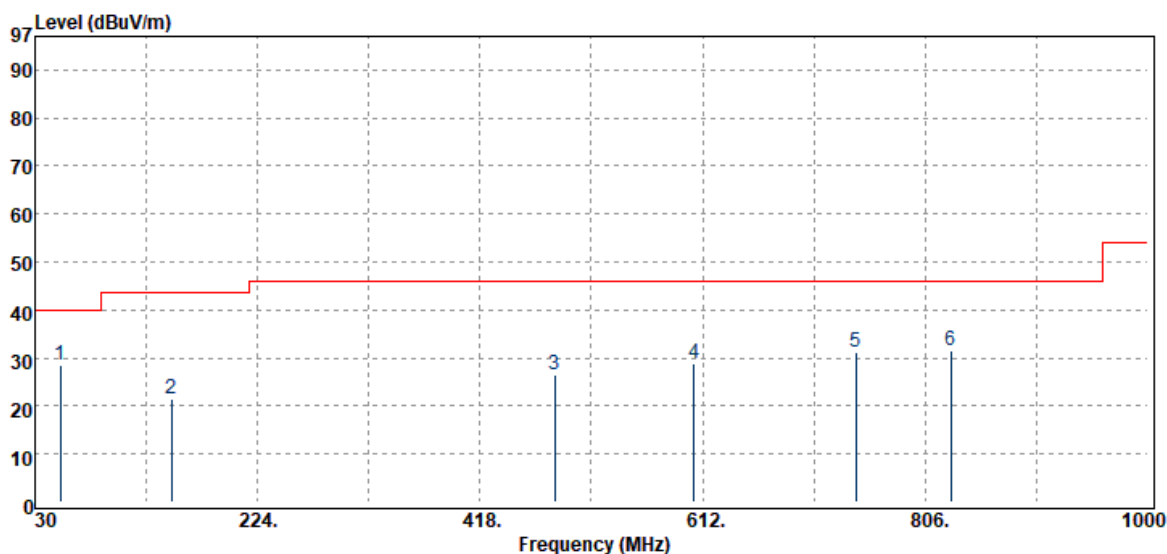
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	36.24	-7.72	28.52	40.00	-11.48
149.31	Peak	28.49	-7.01	21.48	43.50	-22.02
482.99	Peak	29.03	-2.51	26.52	46.00	-19.48
604.24	Peak	28.85	-0.10	28.75	46.00	-17.25
745.86	Peak	28.88	2.46	31.34	46.00	-14.66
828.31	Peak	27.85	3.84	31.69	46.00	-14.31

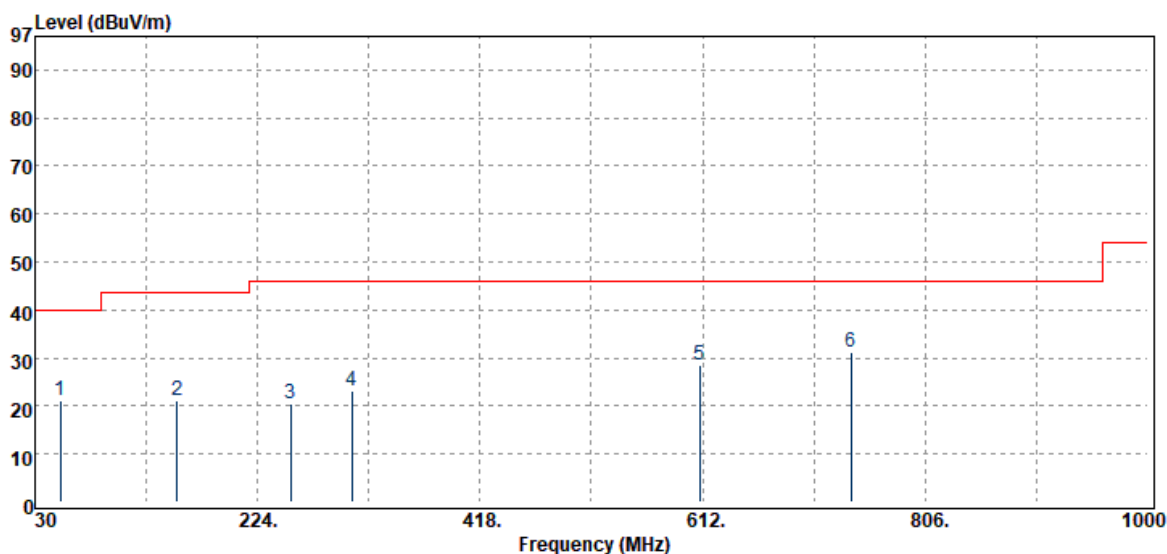
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Report Number :ER/2019/C0078
 Operation Mode :802.11a B4
 Test Channel :5785 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane

Test Date :2020-01-14
 Temp./Humi. :22.7/67
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	28.90	-7.72	21.18	40.00	-18.82
154.16	Peak	28.17	-6.99	21.18	43.50	-22.32
253.10	Peak	28.07	-7.74	20.33	46.00	-25.67
306.45	Peak	29.21	-5.98	23.23	46.00	-22.77
609.09	Peak	28.67	-0.25	28.42	46.00	-17.58
741.01	Peak	29.06	2.01	31.07	46.00	-14.93

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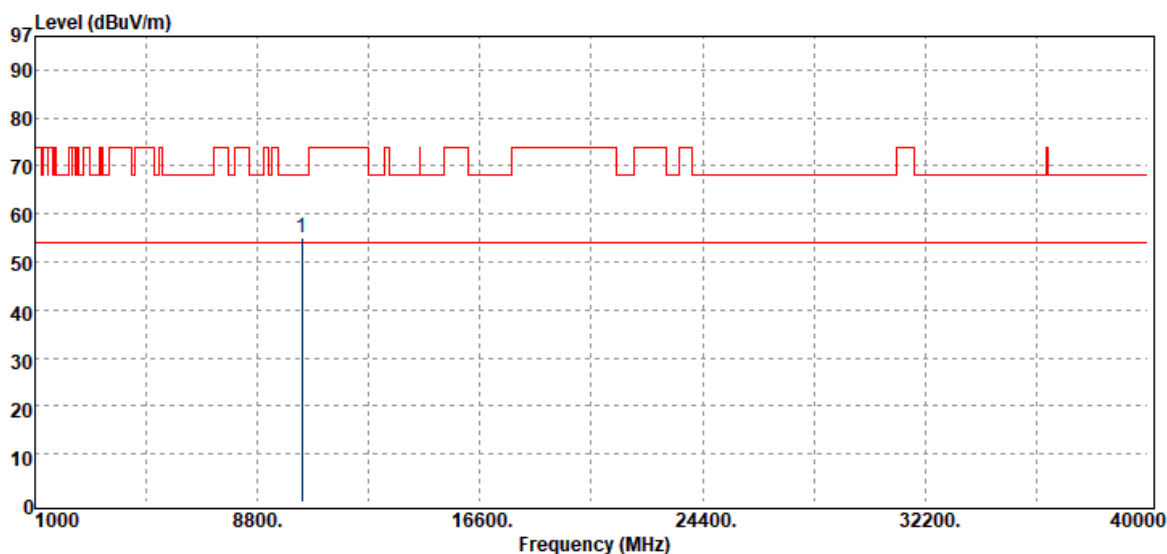
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Above 1GHz Worst-Case Data:

Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.36	18.72	55.08	68.20	-13.12

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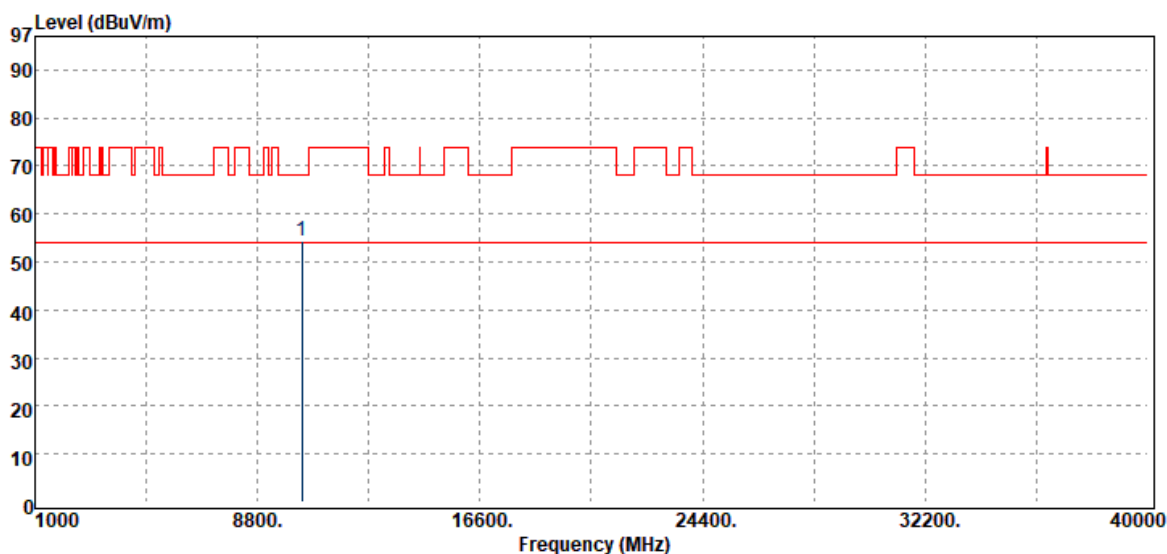
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.81	18.72	54.53	68.20	-13.67

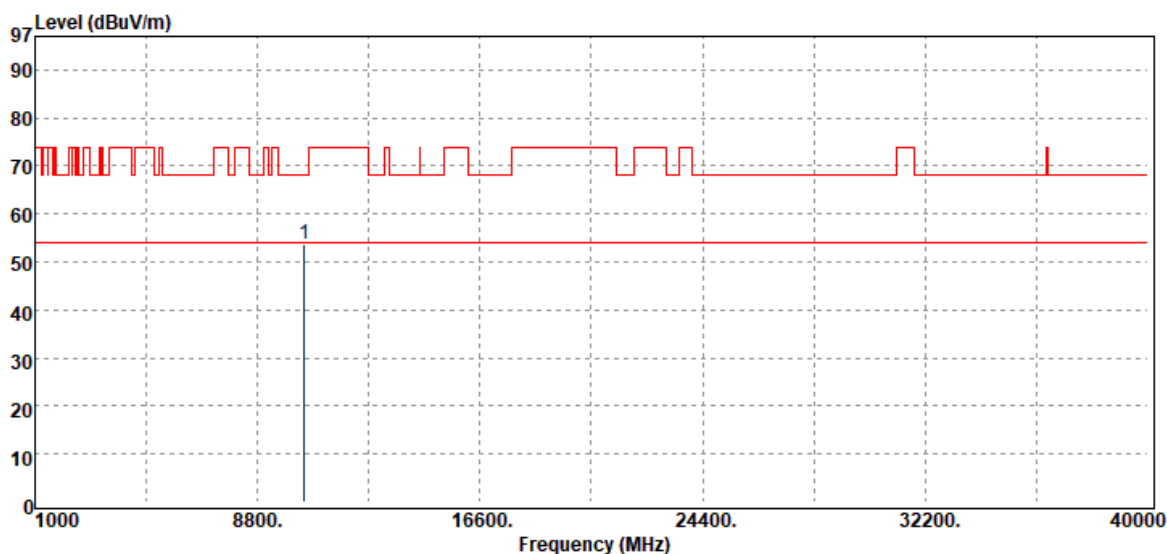
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	35.12	18.53	53.65	68.20	-14.55

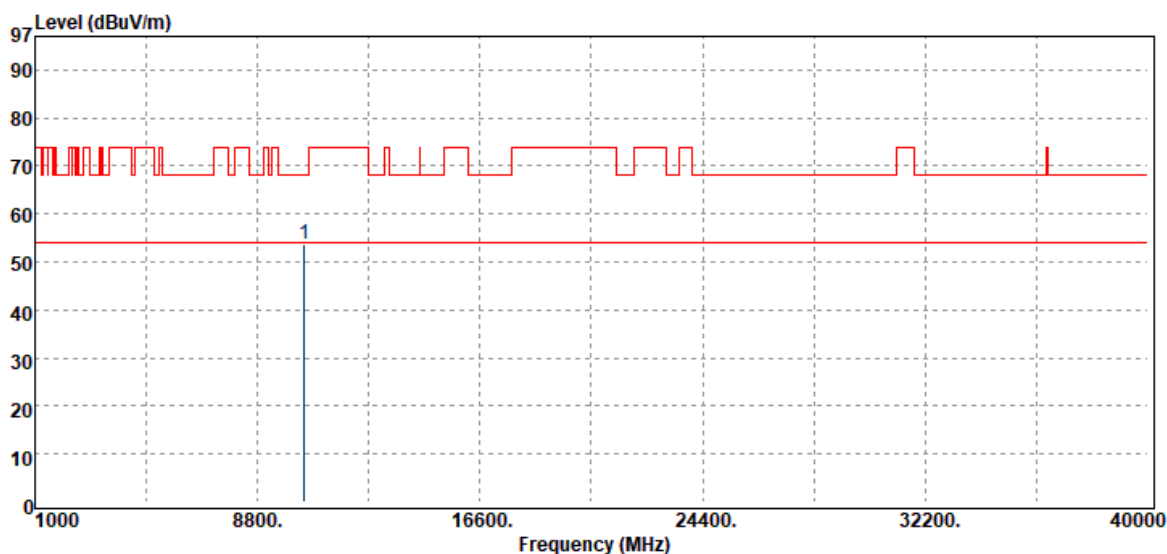
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	35.27	18.53	53.80	68.20	-14.40

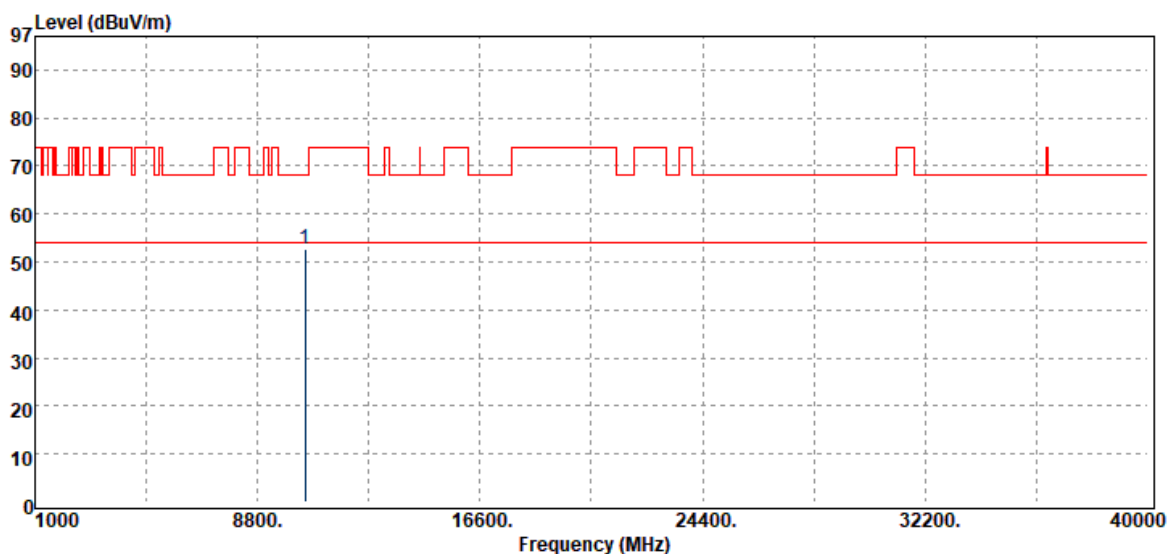
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5240 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	35.02	17.83	52.85	68.20	-15.35

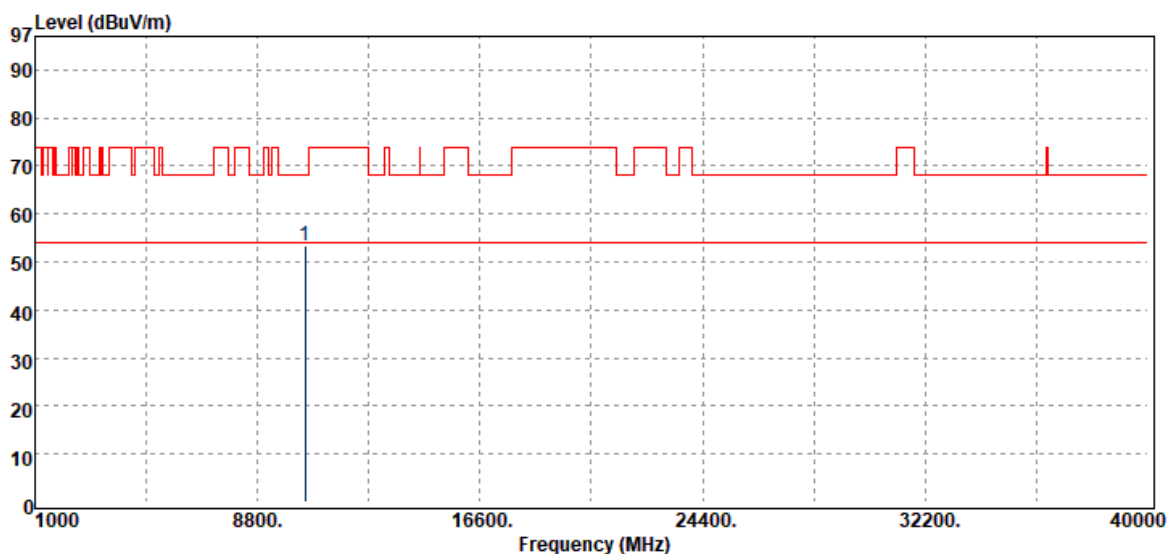
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Report Number :ER/2019/C0078
Operation Mode :802.11a B1
Test Channel :5240 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	35.64	17.83	53.47	68.20	-14.73

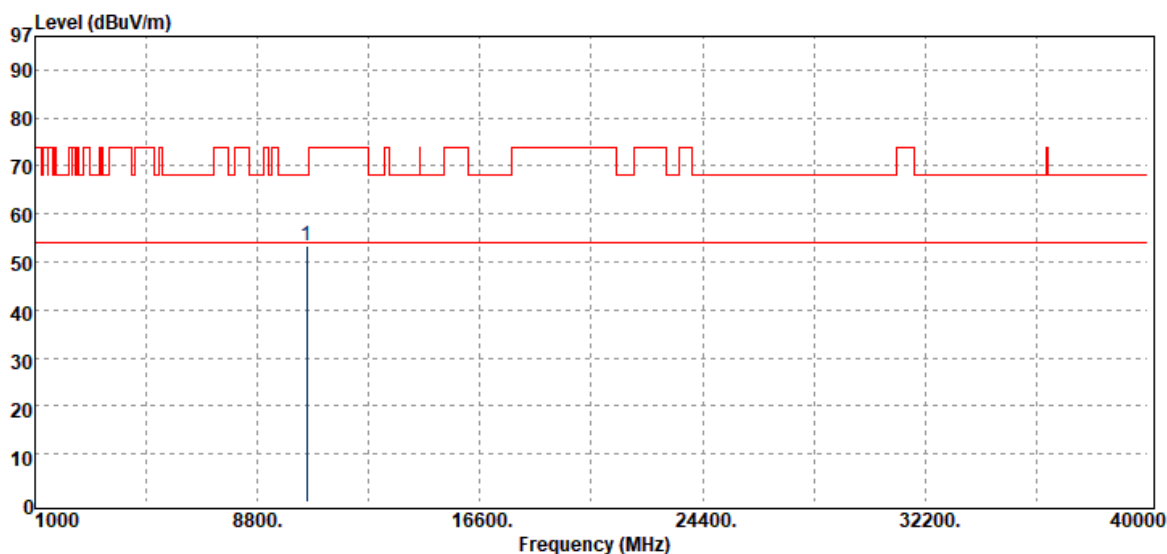
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5260 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	35.17	18.05	53.22	68.20	-14.98

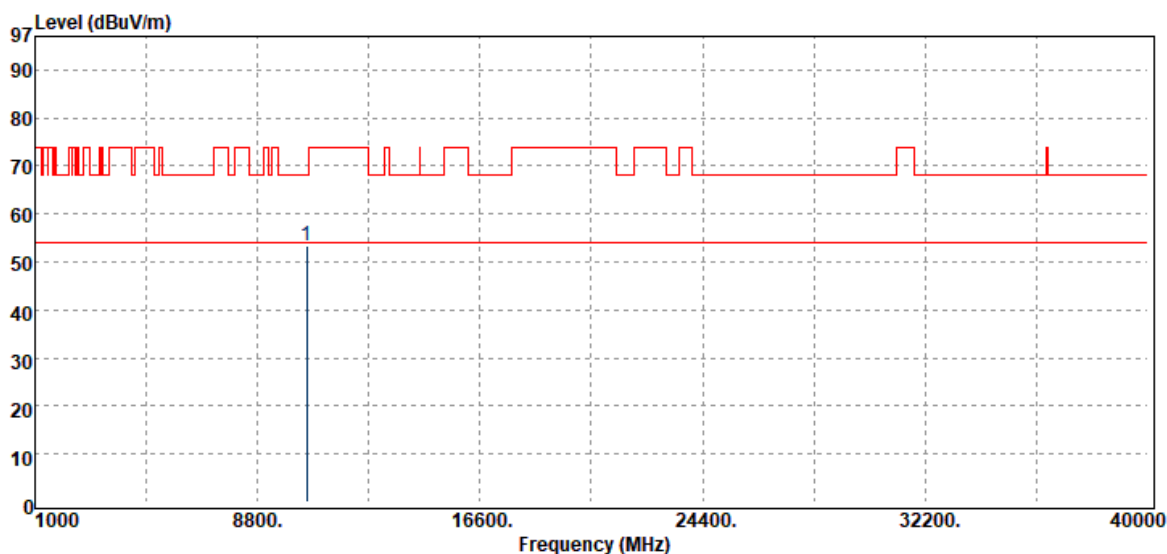
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5260 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	35.18	18.05	53.23	68.20	-14.97

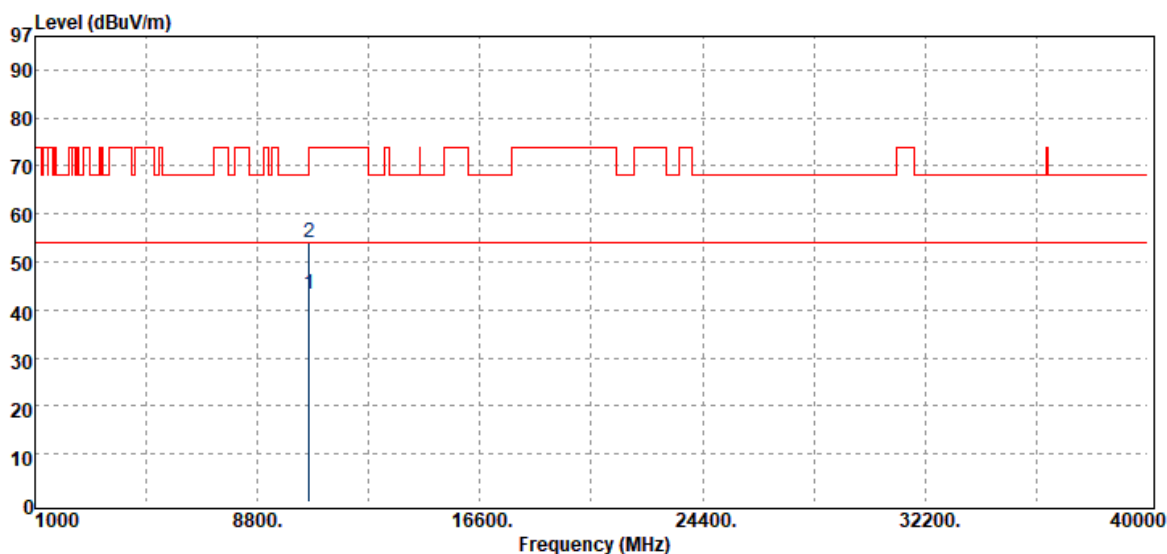
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.97	19.18	43.15	54.00	-10.85
10600.00	Peak	34.80	19.18	53.98	74.00	-20.02

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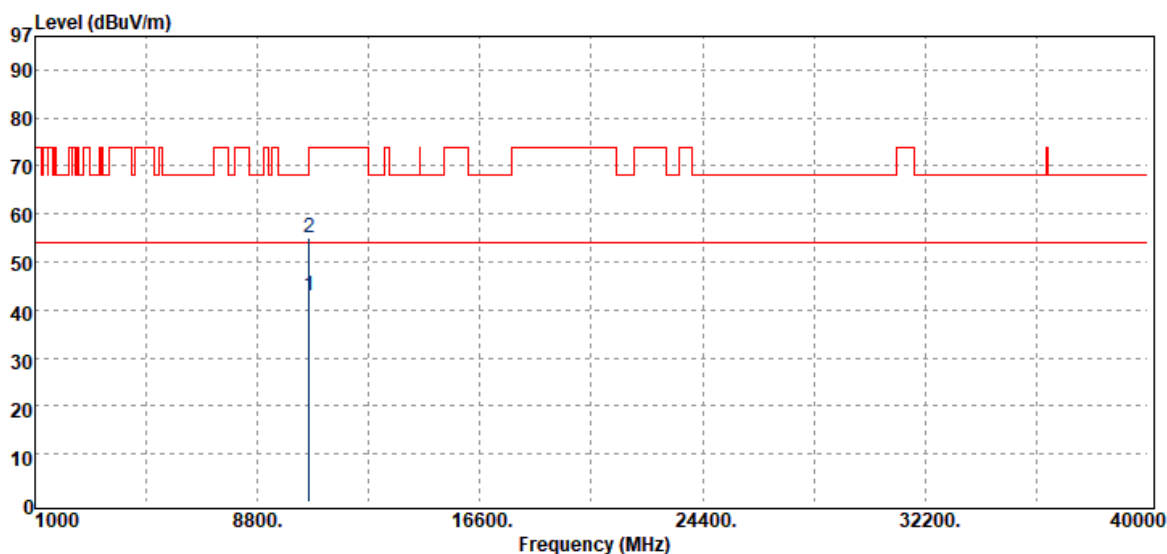
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t (886-2) 2299-3279 f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.78	19.18	42.96	54.00	-11.04
10600.00	Peak	35.85	19.18	55.03	74.00	-18.97

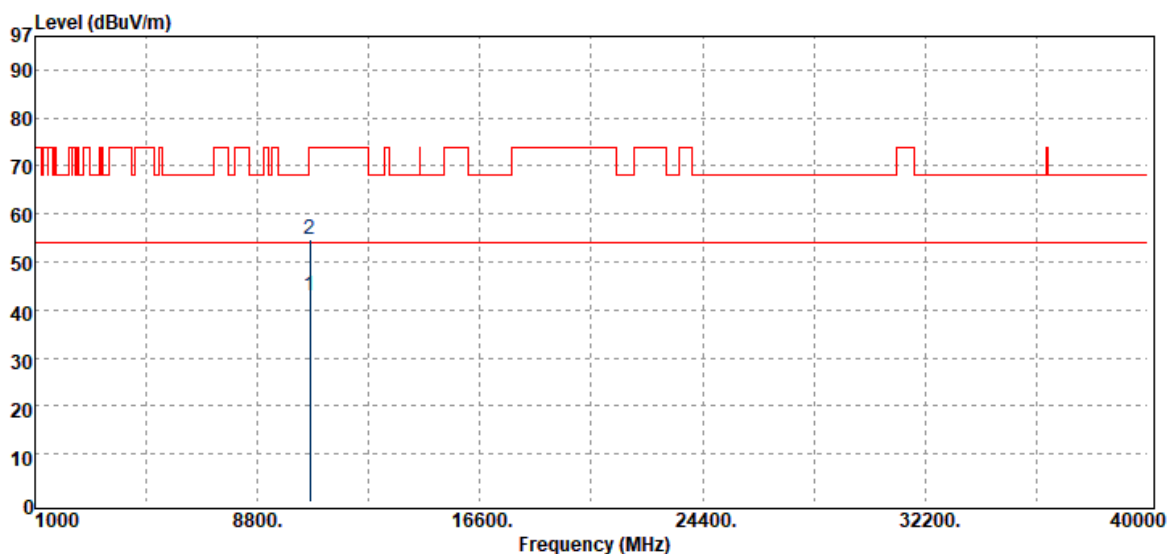
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5320 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.60	19.49	43.09	54.00	-10.91
10640.00	Peak	35.31	19.49	54.80	74.00	-19.20

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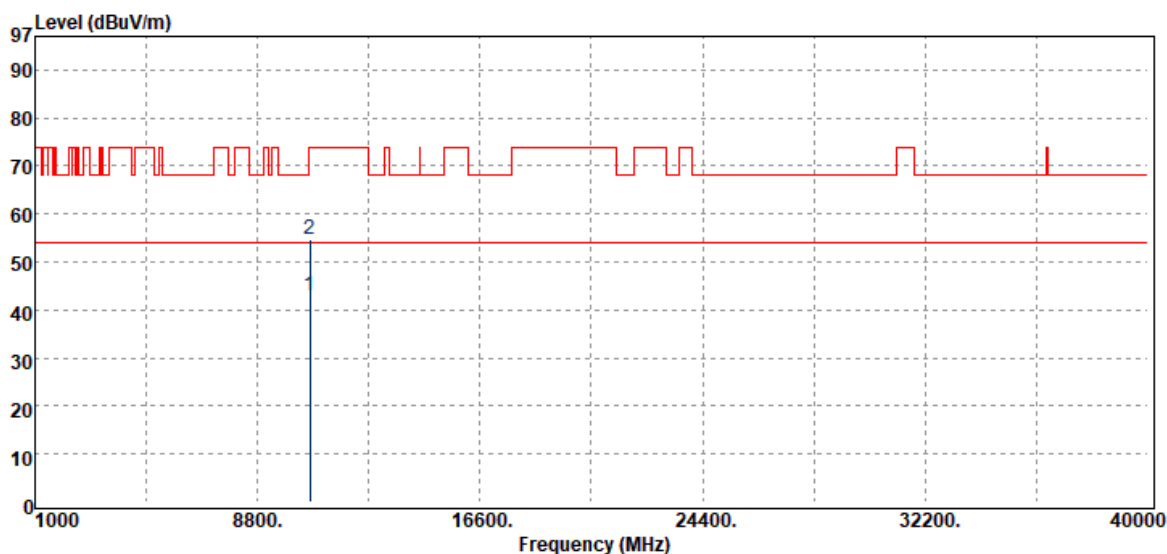
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Report Number :ER/2019/C0078
Operation Mode :802.11a B2
Test Channel :5320 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.55	19.49	43.04	54.00	-10.96
10640.00	Peak	35.29	19.49	54.78	74.00	-19.22

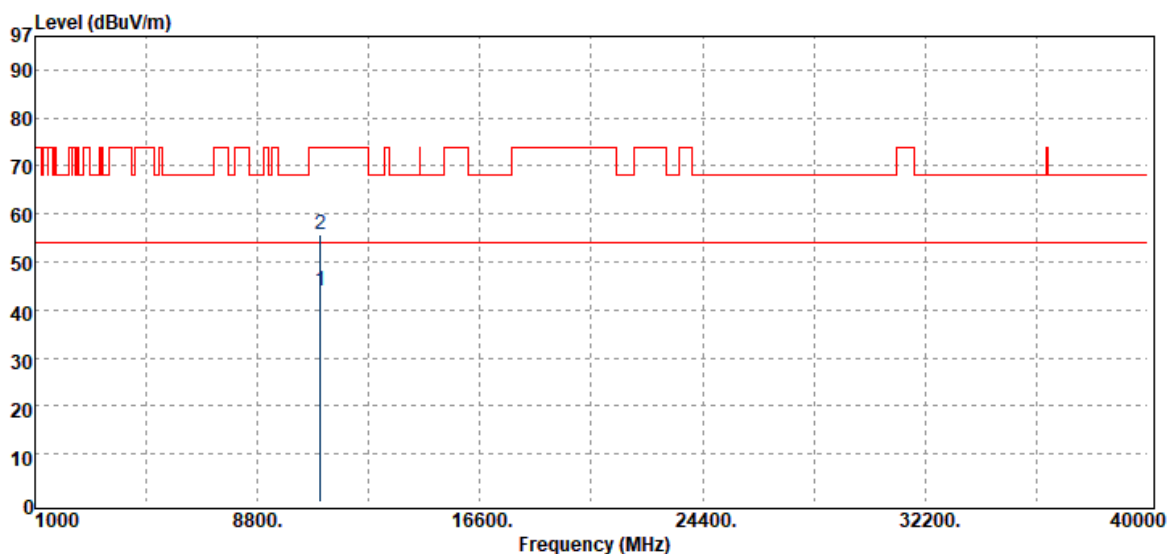
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5500 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.59	20.49	44.08	54.00	-9.92
11000.00	Peak	35.10	20.49	55.59	74.00	-18.41

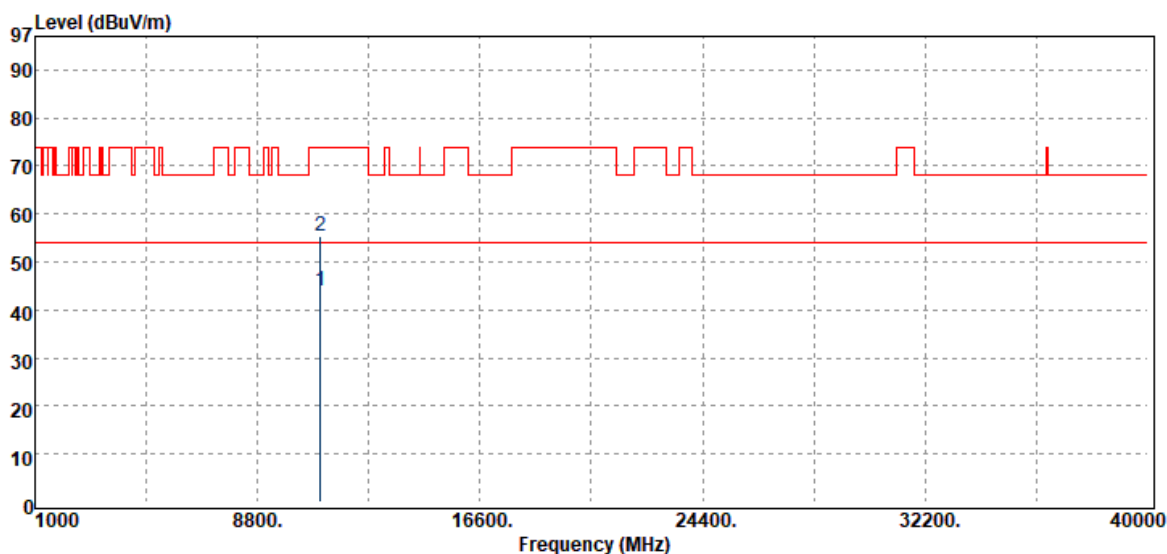
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5500 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.49	20.49	43.98	54.00	-10.02
11000.00	Peak	34.87	20.49	55.36	74.00	-18.64

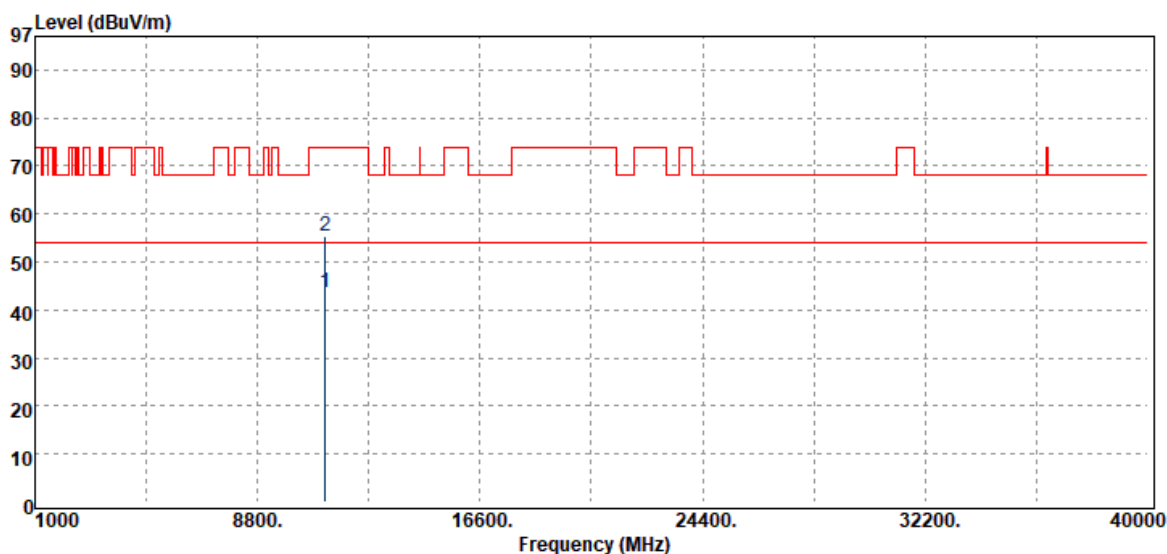
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5580 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	23.81	19.71	43.52	54.00	-10.48
11160.00	Peak	35.62	19.71	55.33	74.00	-18.67

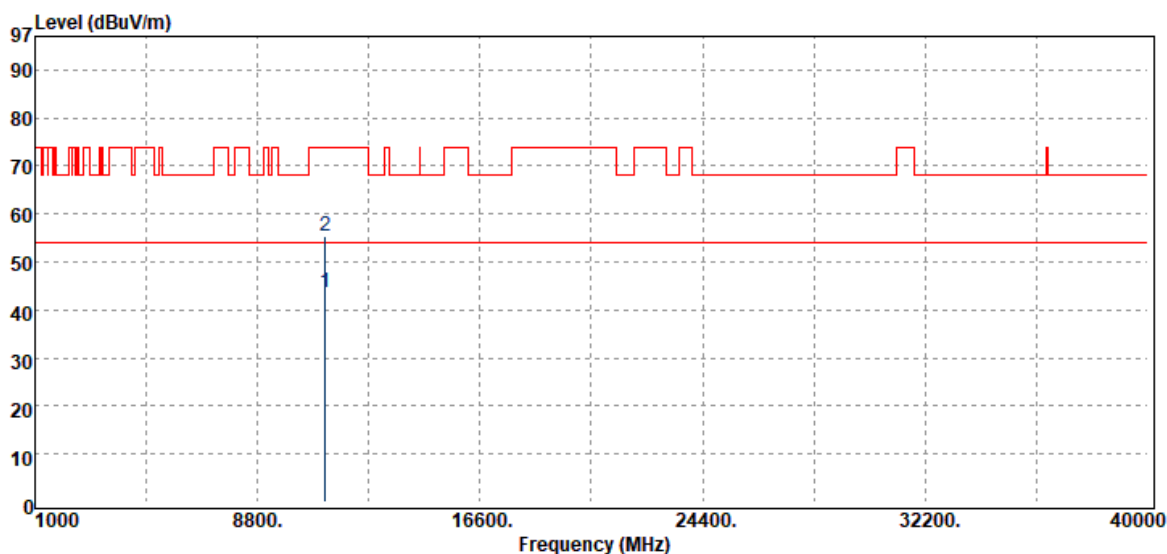
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5580 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	23.78	19.71	43.49	54.00	-10.51
11160.00	Peak	35.59	19.71	55.30	74.00	-18.70

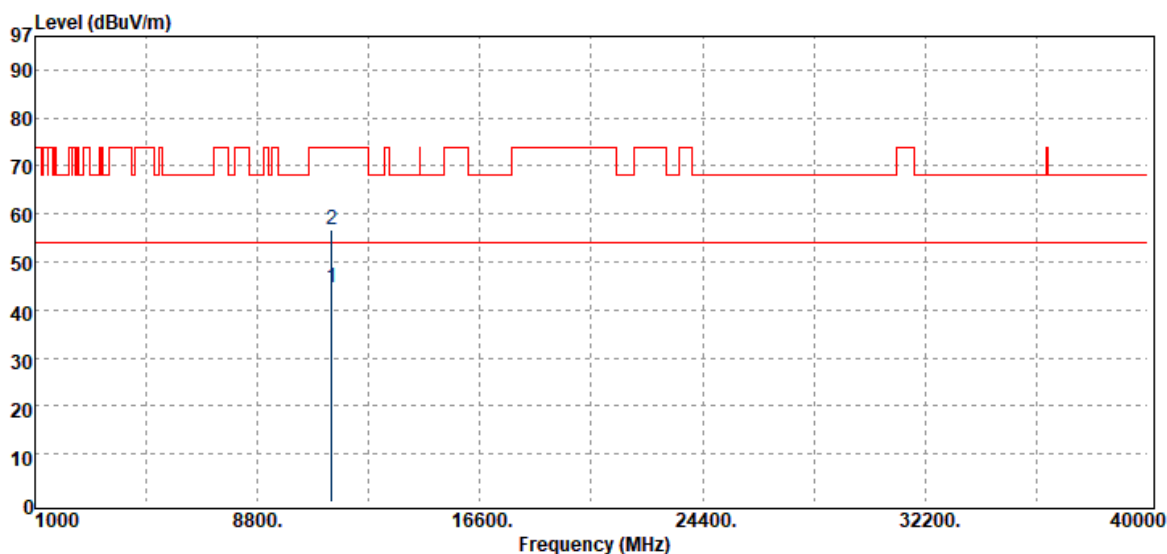
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5700 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.46	21.10	44.56	54.00	-9.44
11400.00	Peak	35.59	21.10	56.69	74.00	-17.31

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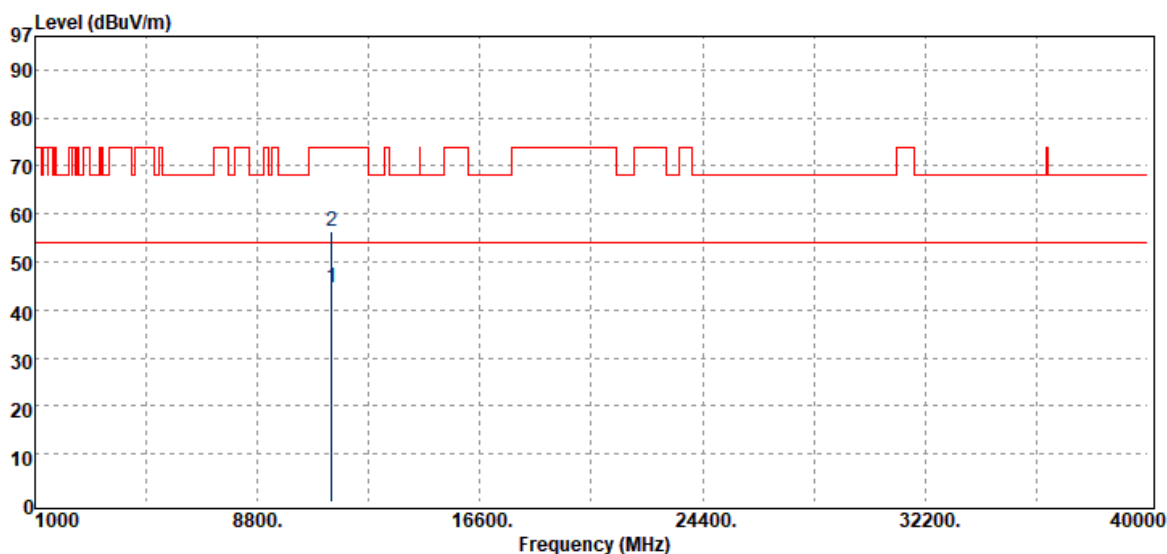
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3
Test Channel :5700 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.56	21.10	44.66	54.00	-9.34
11400.00	Peak	35.23	21.10	56.33	74.00	-17.67

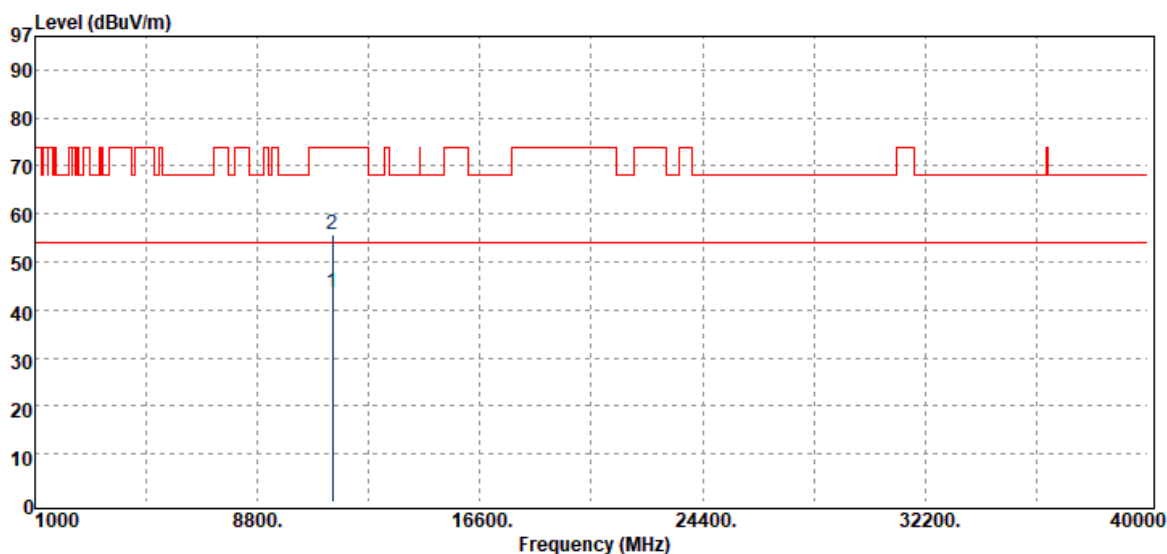
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3/B4
Test Channel :5720 MHz
Test Mode :Tx CH 144
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	22.95	20.74	43.69	54.00	-10.31
11440.00	Peak	34.96	20.74	55.70	74.00	-18.30

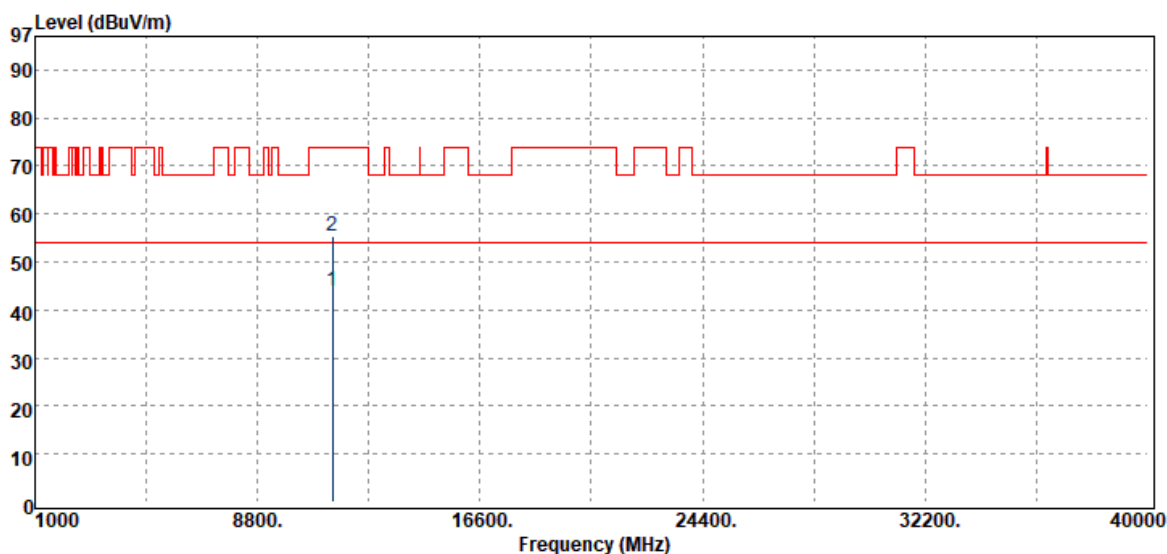
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Report Number :ER/2019/C0078
Operation Mode :802.11a B3/B4
Test Channel :5720 MHz
Test Mode :Tx CH 144
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	23.09	20.74	43.83	54.00	-10.17
11440.00	Peak	34.67	20.74	55.41	74.00	-18.59

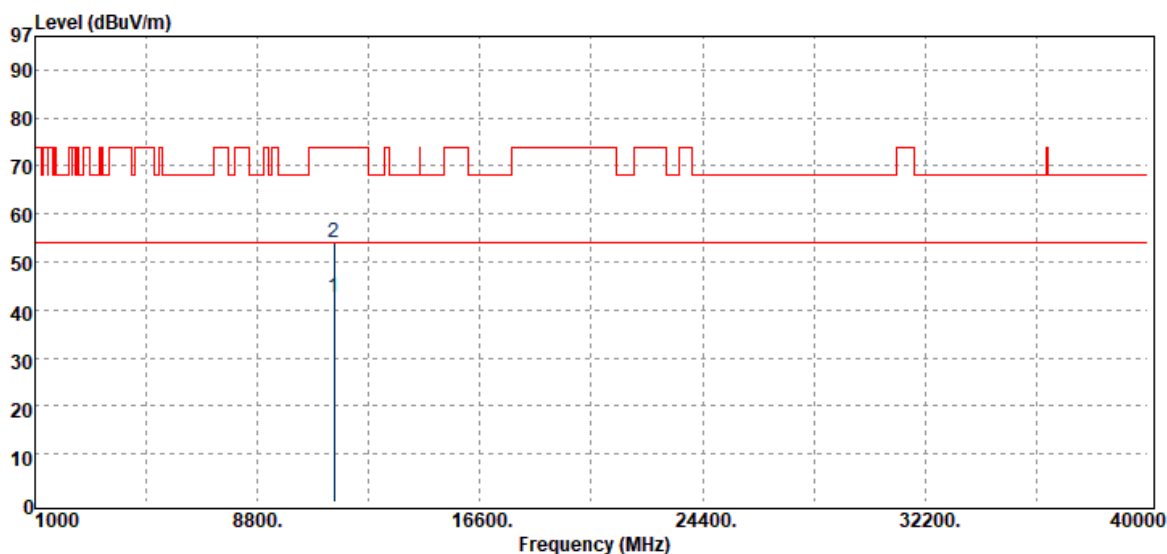
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5745 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.11	19.66	42.77	54.00	-11.23
11490.00	Peak	34.32	19.66	53.98	74.00	-20.02

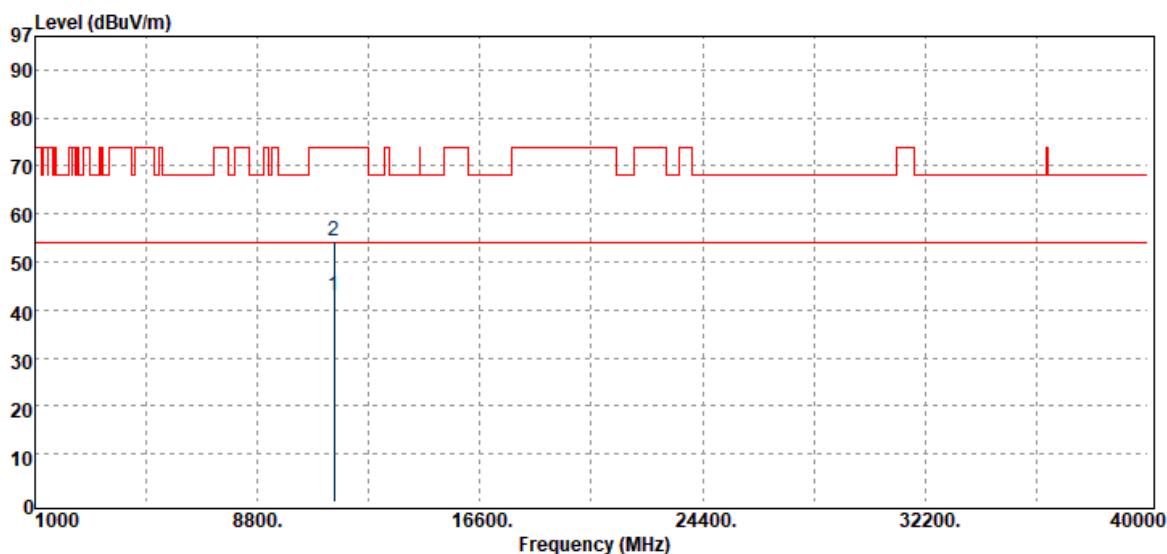
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5745 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.15	19.66	42.81	54.00	-11.19
11490.00	Peak	34.64	19.66	54.30	74.00	-19.70

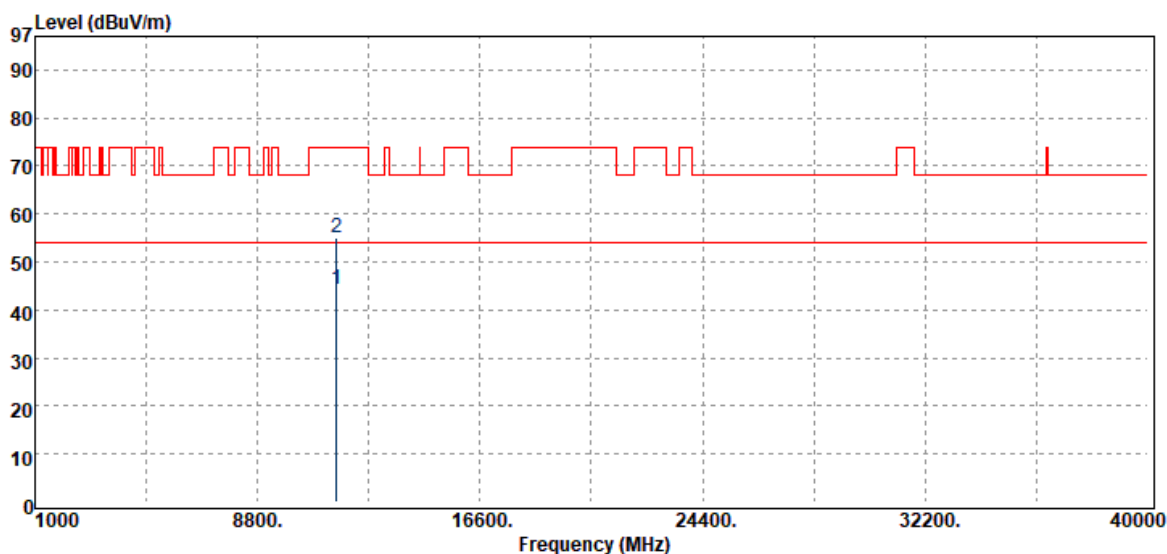
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.53	20.93	44.46	54.00	-9.54
11570.00	Peak	34.20	20.93	55.13	74.00	-18.87

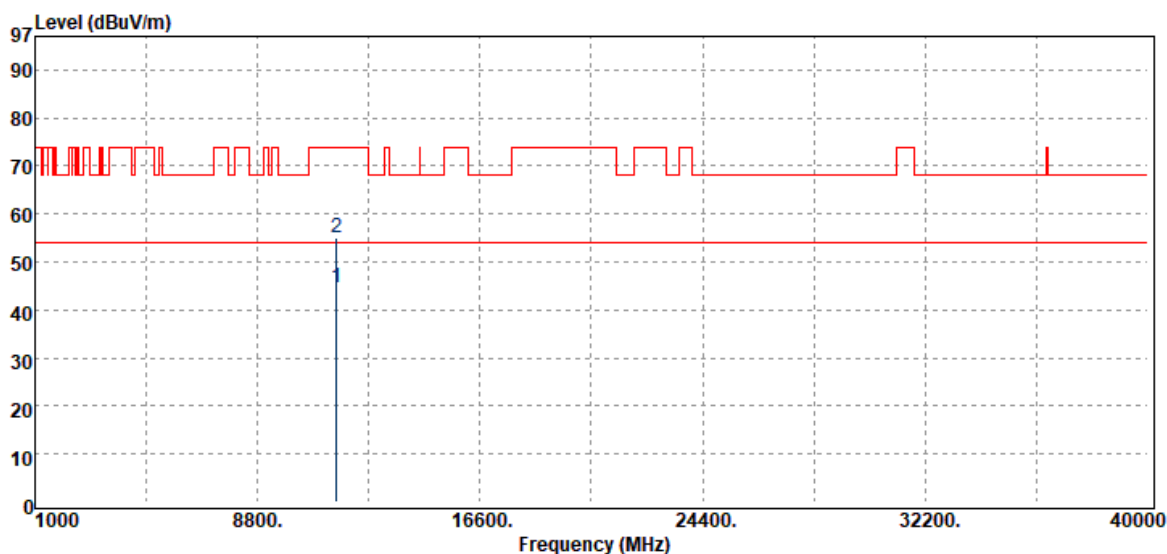
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.59	20.93	44.52	54.00	-9.48
11570.00	Peak	34.22	20.93	55.15	74.00	-18.85

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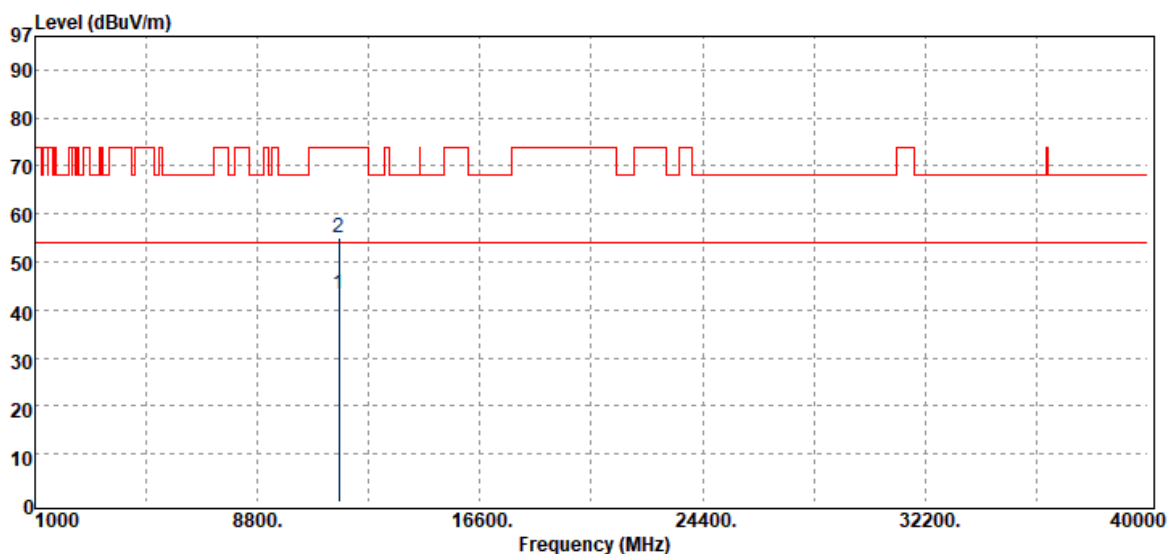
No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/ 新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5825 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	23.11	20.07	43.18	54.00	-10.82
11650.00	Peak	35.00	20.07	55.07	74.00	-18.93

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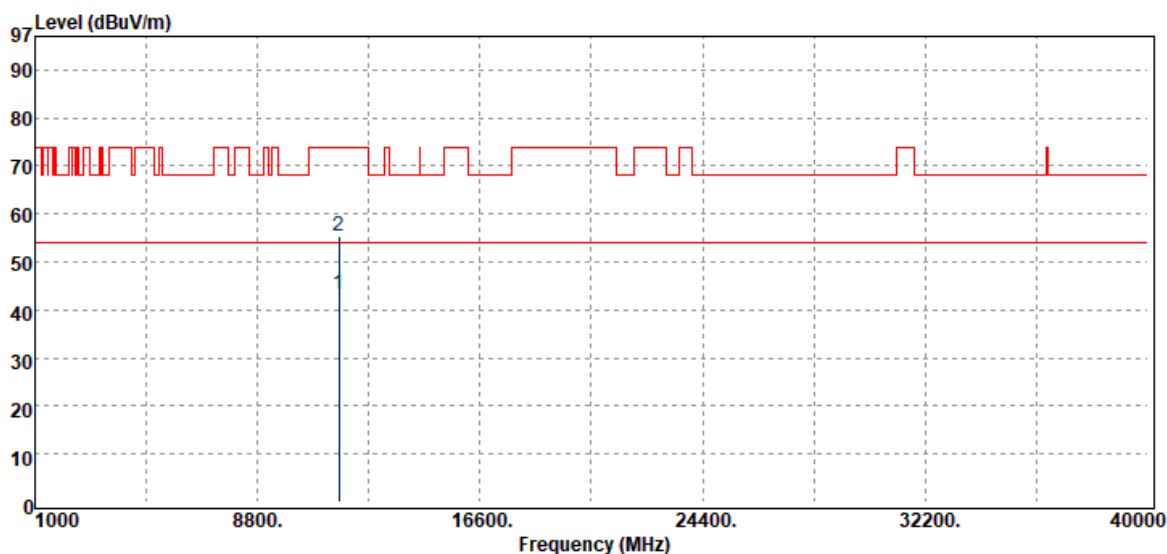
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Report Number :ER/2019/C0078
Operation Mode :802.11a B4
Test Channel :5825 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	23.10	20.07	43.17	54.00	-10.83
11650.00	Peak	35.15	20.07	55.22	74.00	-18.78

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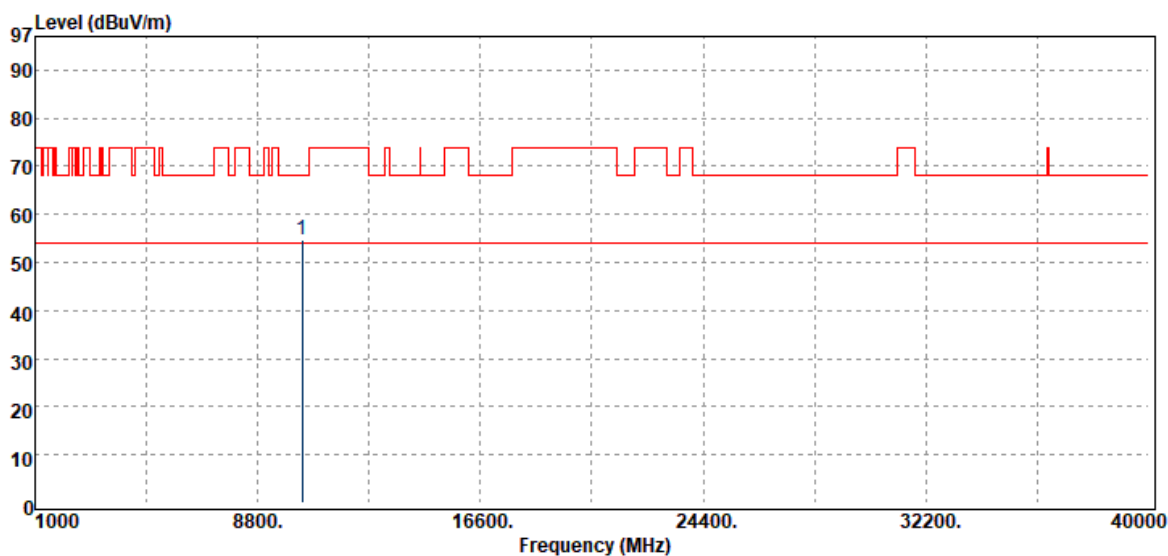
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.11	18.72	54.83	68.20	-13.37

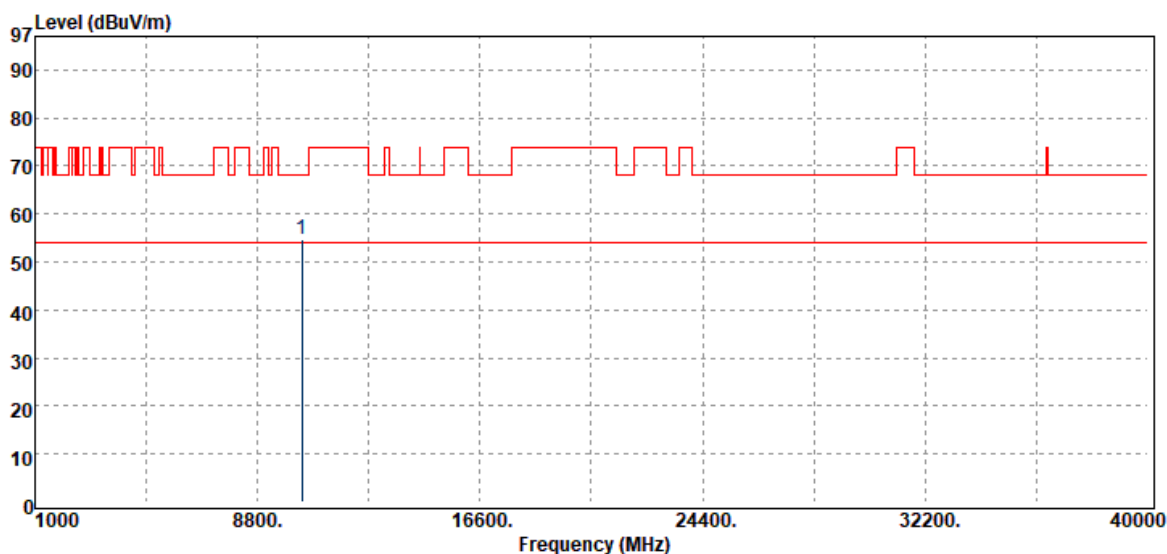
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.89	18.72	54.61	68.20	-13.59

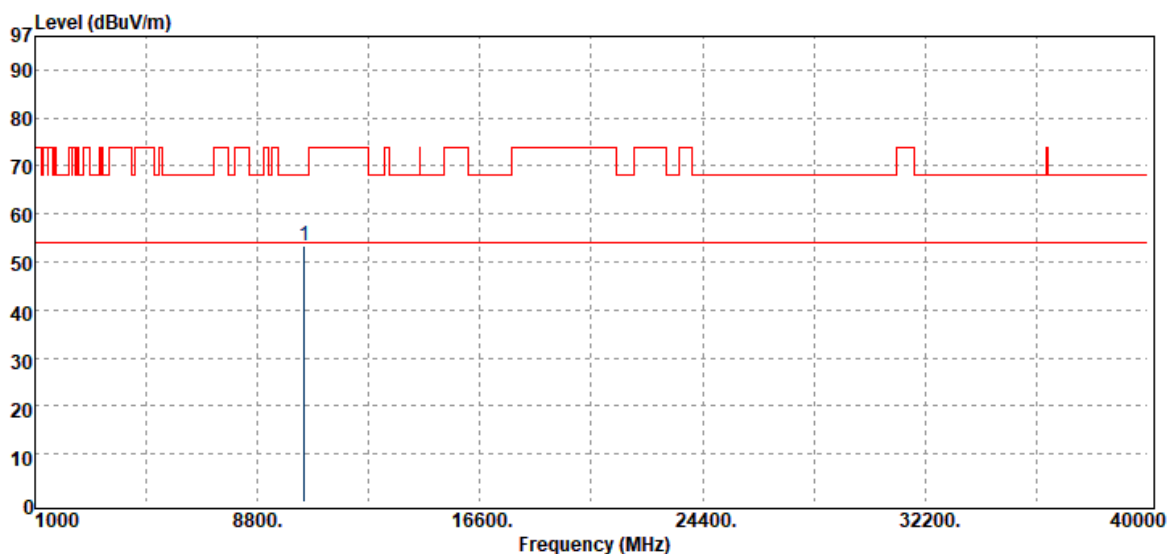
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	34.90	18.53	53.43	68.20	-14.77

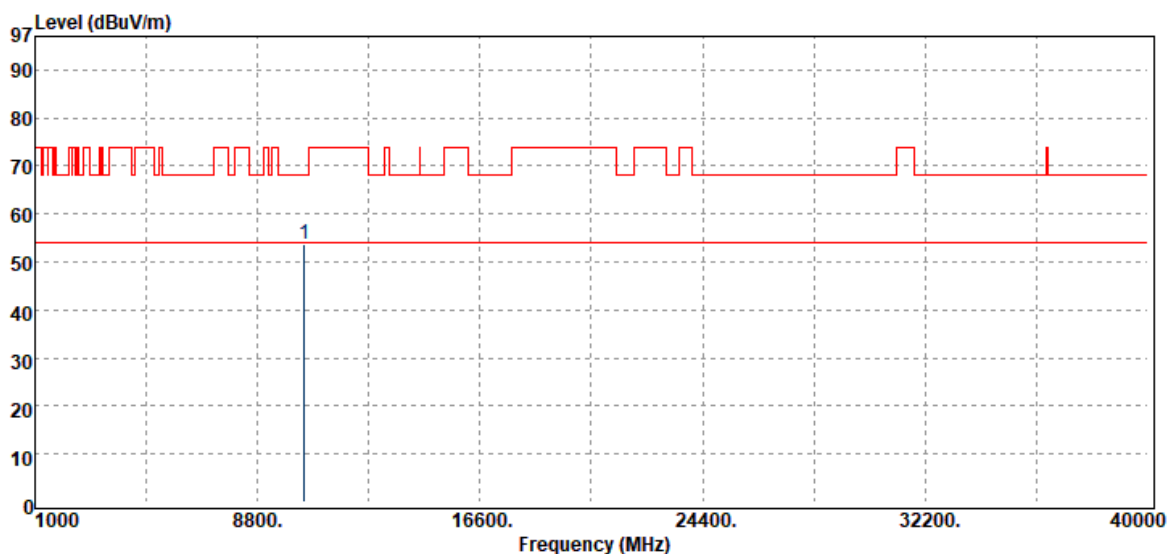
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5220 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	35.10	18.53	53.63	68.20	-14.57

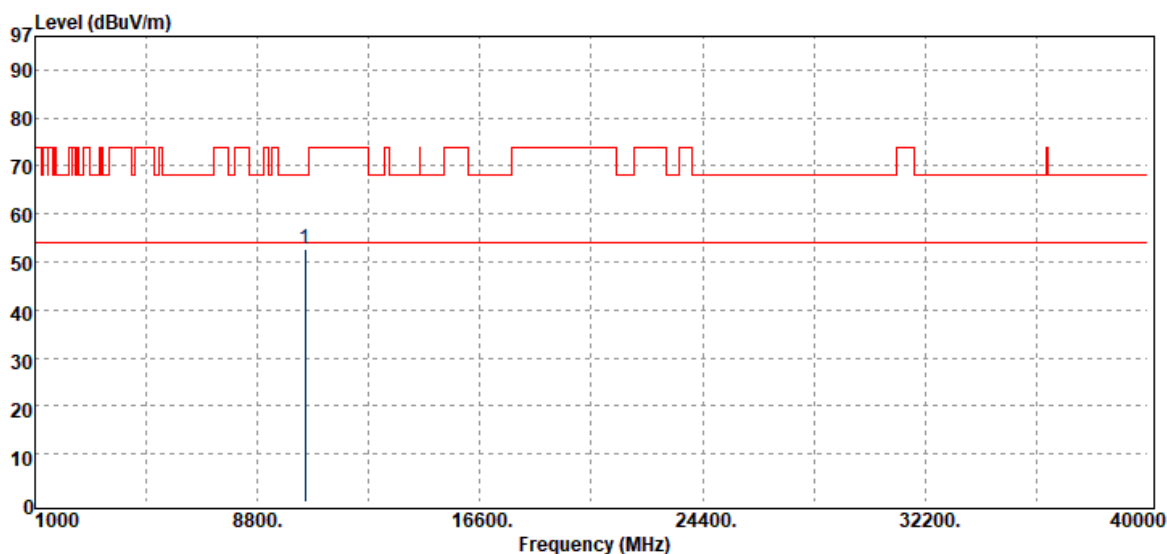
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5240 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	34.80	17.83	52.63	68.20	-15.57

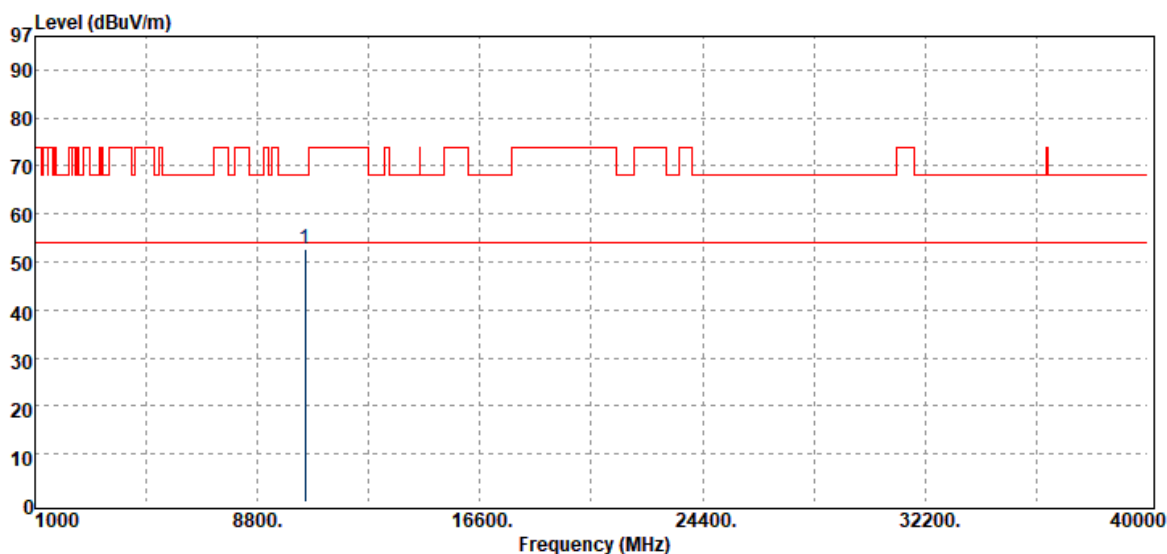
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5240 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	34.78	17.83	52.61	68.20	-15.59

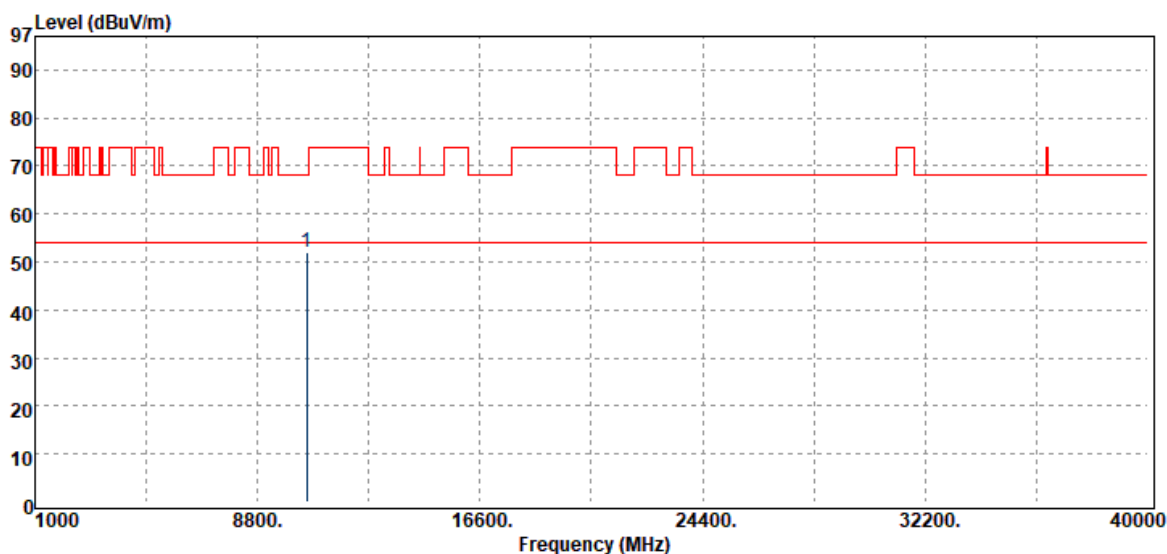
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5260 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	34.12	18.05	52.17	68.20	-16.03

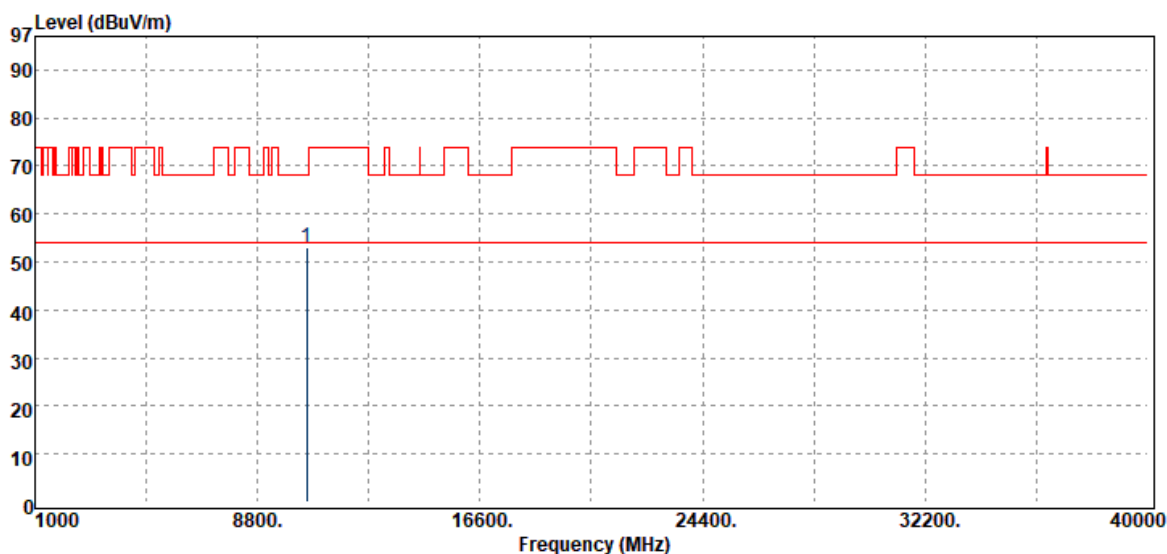
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5260 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	34.87	18.05	52.92	68.20	-15.28

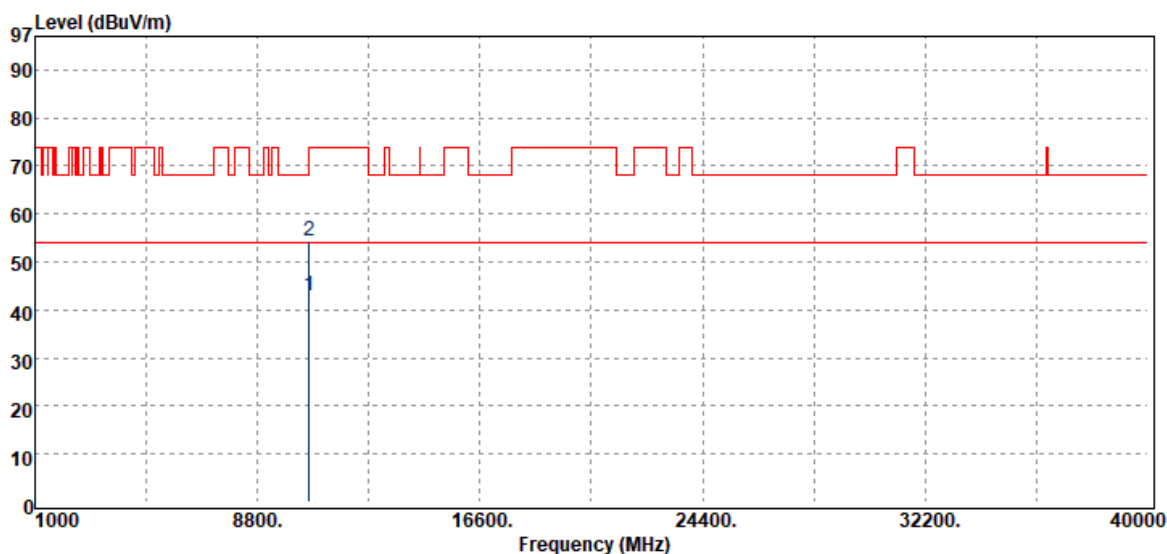
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.88	19.18	43.06	54.00	-10.94
10600.00	Peak	35.10	19.18	54.28	74.00	-19.72

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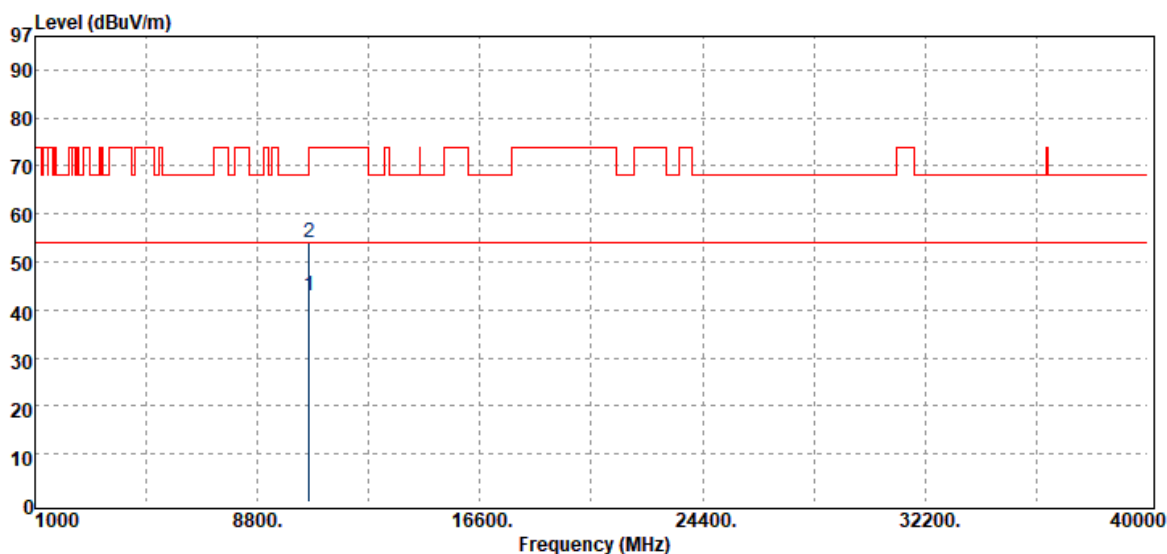
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t (886-2) 2299-3279 f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.81	19.18	42.99	54.00	-11.01
10600.00	Peak	34.96	19.18	54.14	74.00	-19.86

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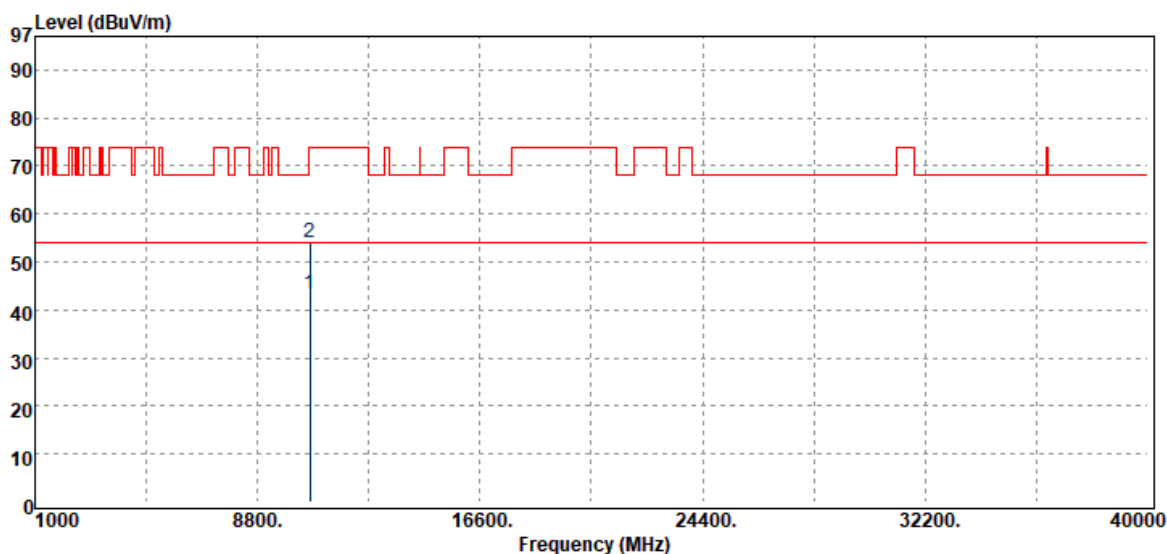
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t (886-2) 2299-3279 f (886-2) 2298-0488

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Member of SGS Group

Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.65	19.49	43.14	54.00	-10.86
10640.00	Peak	34.57	19.49	54.06	74.00	-19.94

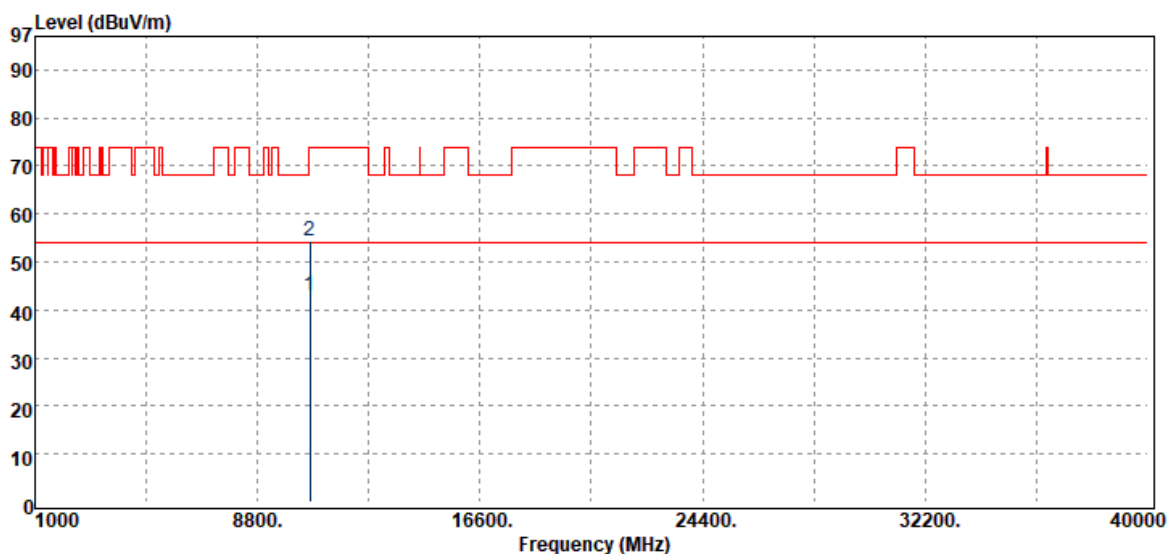
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.63	19.49	43.12	54.00	-10.88
10640.00	Peak	34.73	19.49	54.22	74.00	-19.78

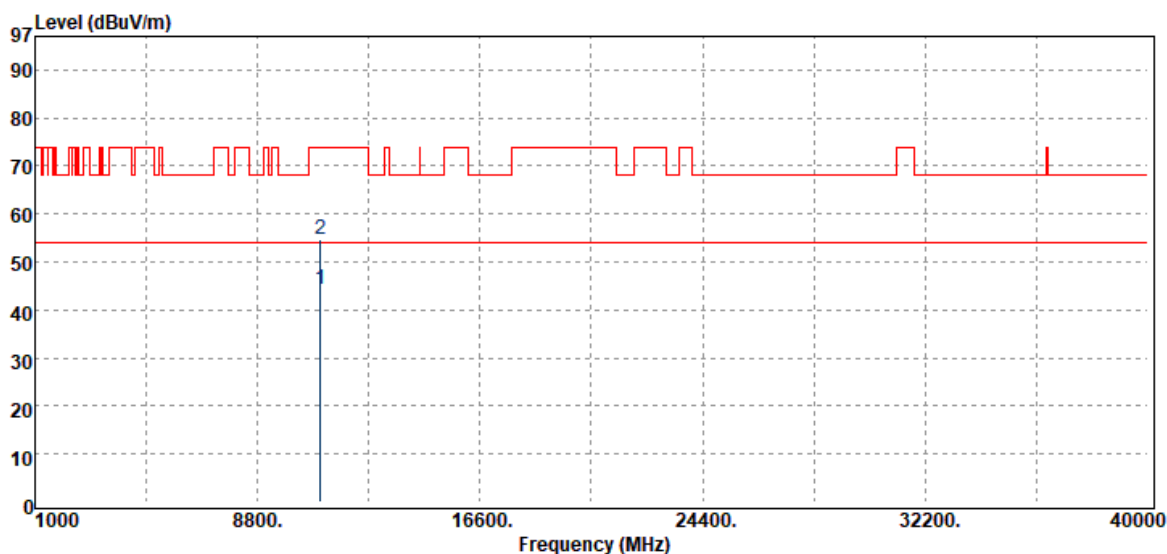
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.76	20.49	44.25	54.00	-9.75
11000.00	Peak	34.07	20.49	54.56	74.00	-19.44

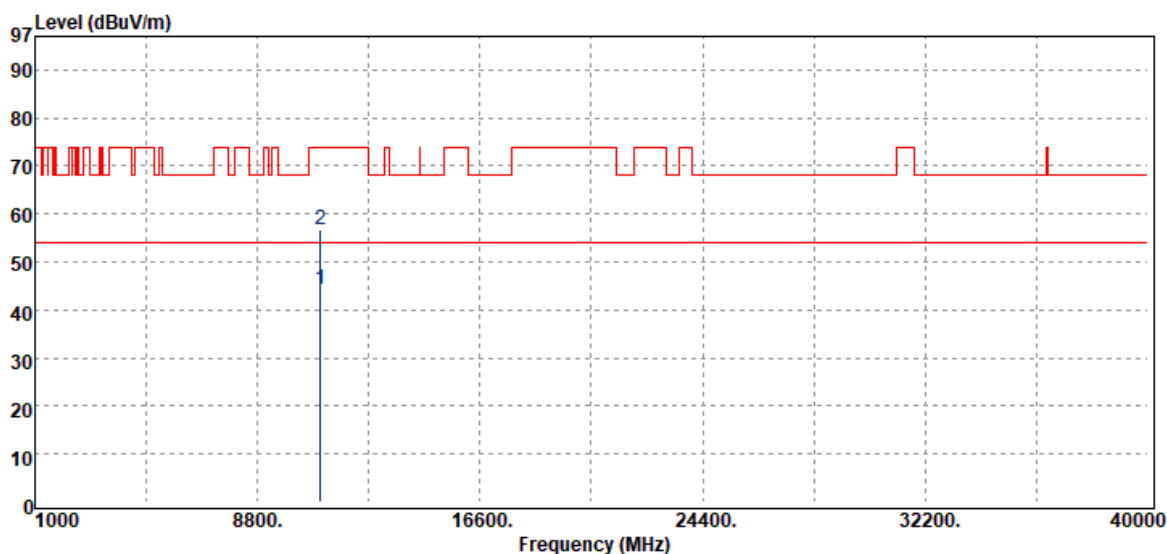
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	23.78	20.49	44.27	54.00	-9.73
11000.00	Peak	36.15	20.49	56.64	74.00	-17.36

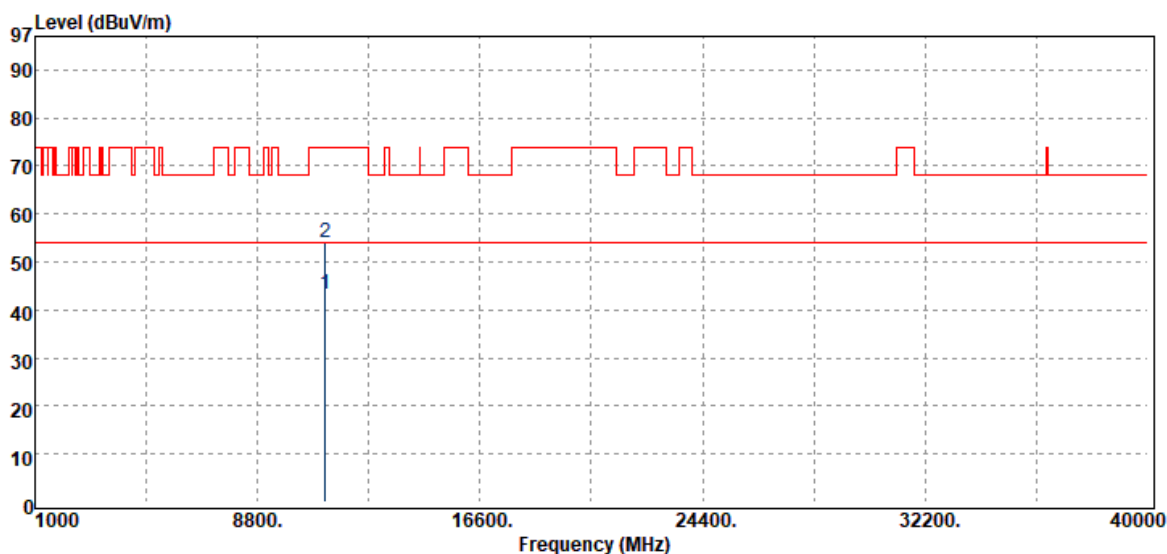
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5580 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	23.45	19.71	43.16	54.00	-10.84
11160.00	Peak	34.34	19.71	54.05	74.00	-19.95

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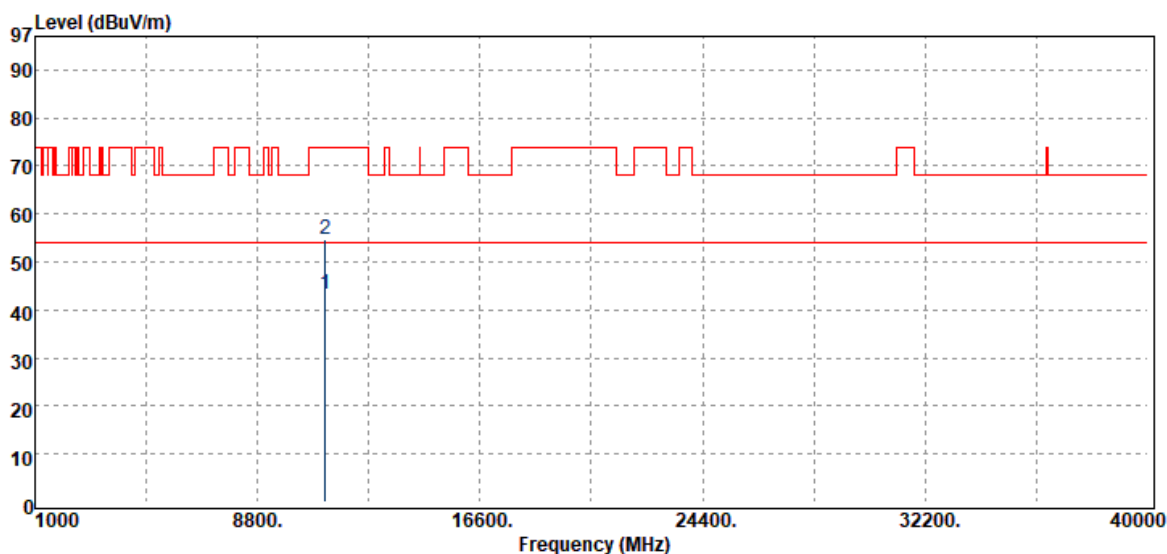
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5580 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	23.48	19.71	43.19	54.00	-10.81
11160.00	Peak	34.96	19.71	54.67	74.00	-19.33

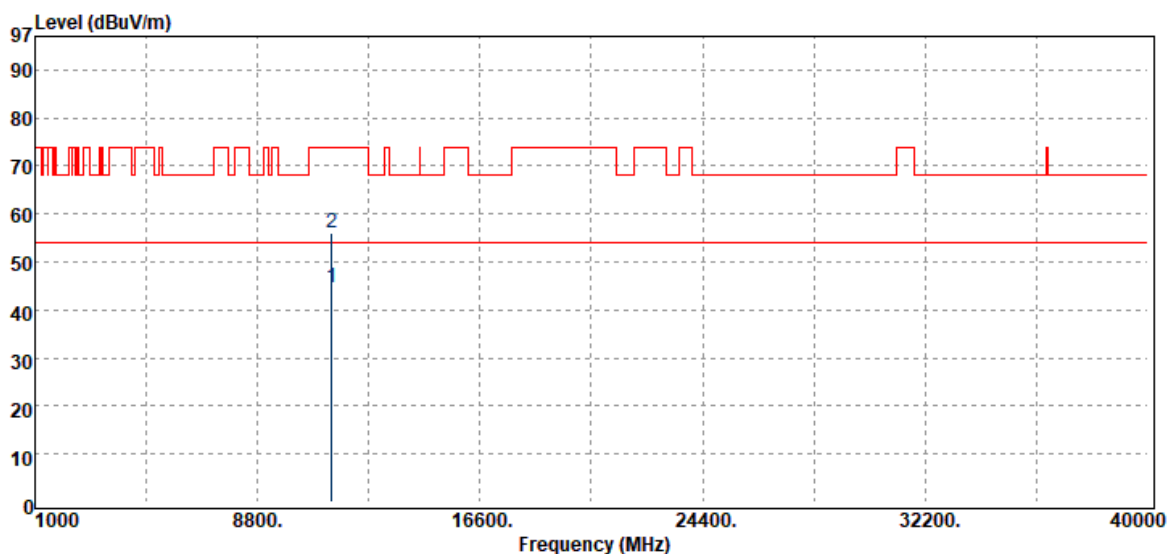
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.50	21.10	44.60	54.00	-9.40
11400.00	Peak	35.11	21.10	56.21	74.00	-17.79

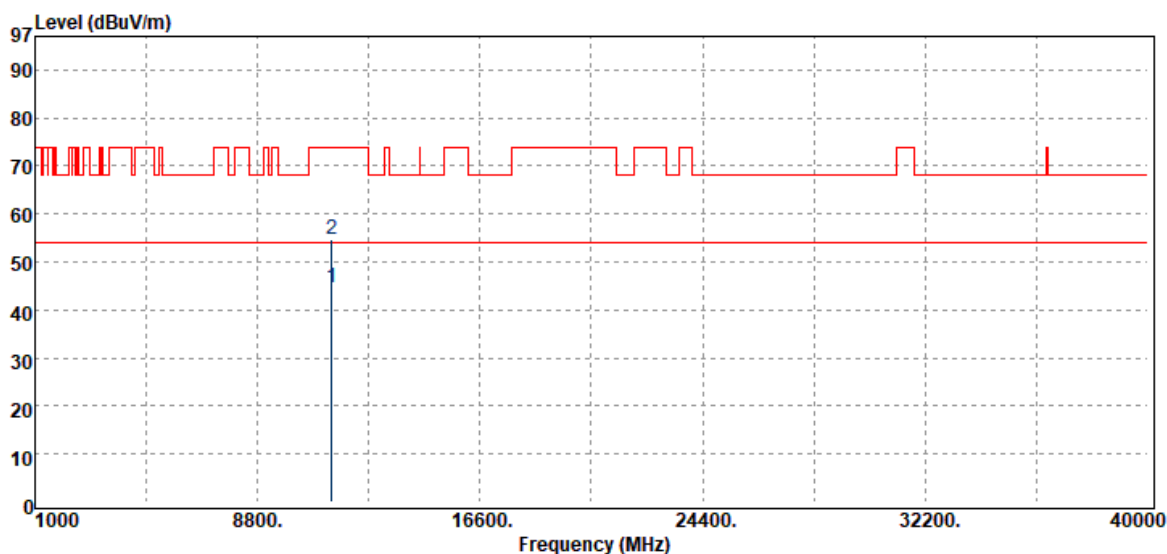
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.45	21.10	44.55	54.00	-9.45
11400.00	Peak	33.75	21.10	54.85	74.00	-19.15

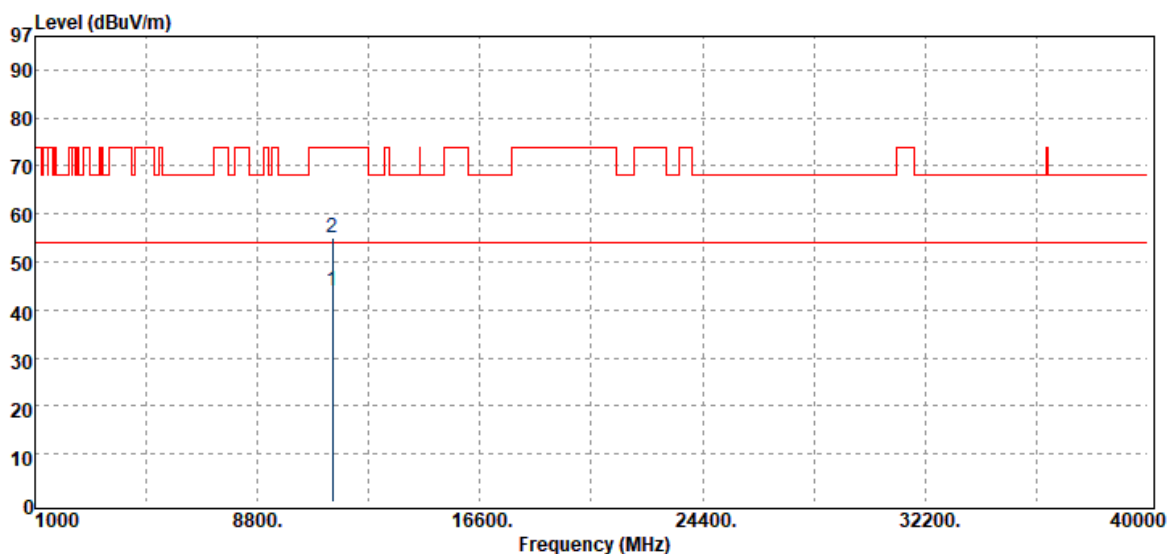
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3/B4
Test Channel :5720 MHz
Test Mode :Tx CH 144 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	23.17	20.74	43.91	54.00	-10.09
11440.00	Peak	34.41	20.74	55.15	74.00	-18.85

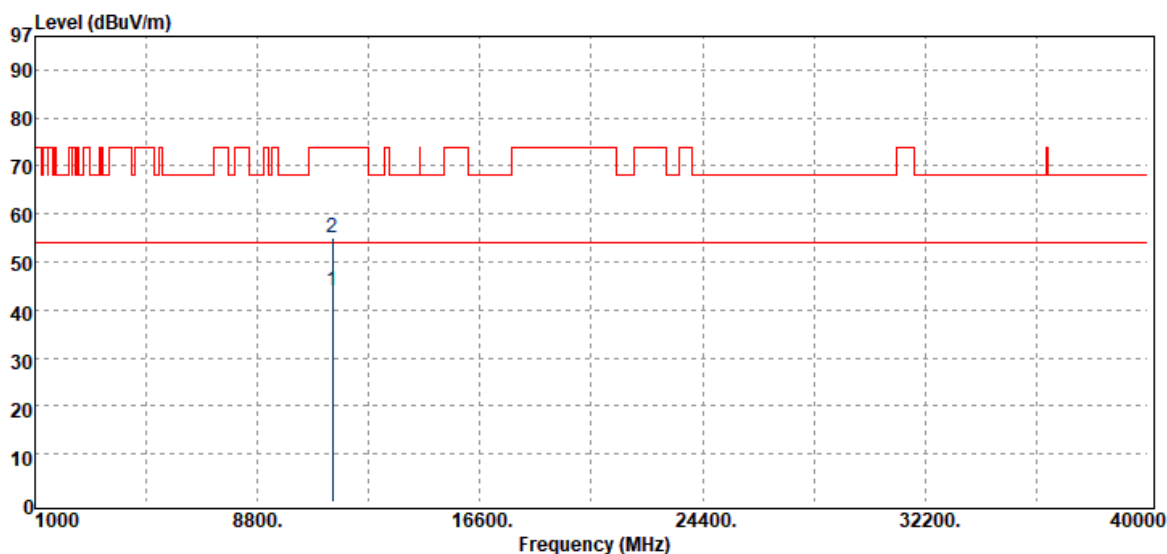
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3/B4
Test Channel :5720 MHz
Test Mode :Tx CH 144 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	23.15	20.74	43.89	54.00	-10.11
11440.00	Peak	34.19	20.74	54.93	74.00	-19.07

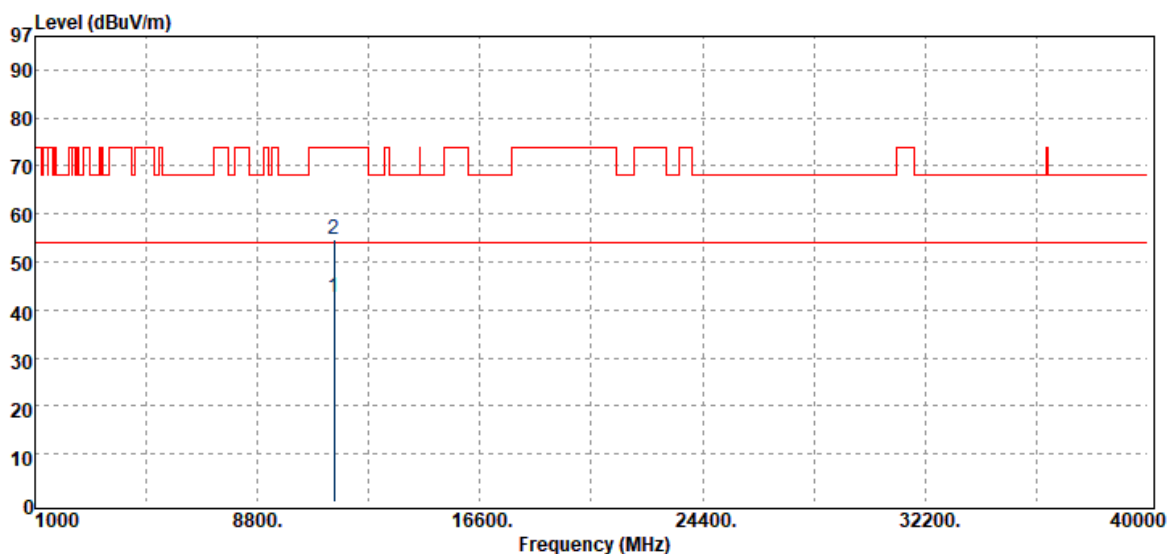
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.07	19.66	42.73	54.00	-11.27
11490.00	Peak	34.96	19.66	54.62	74.00	-19.38

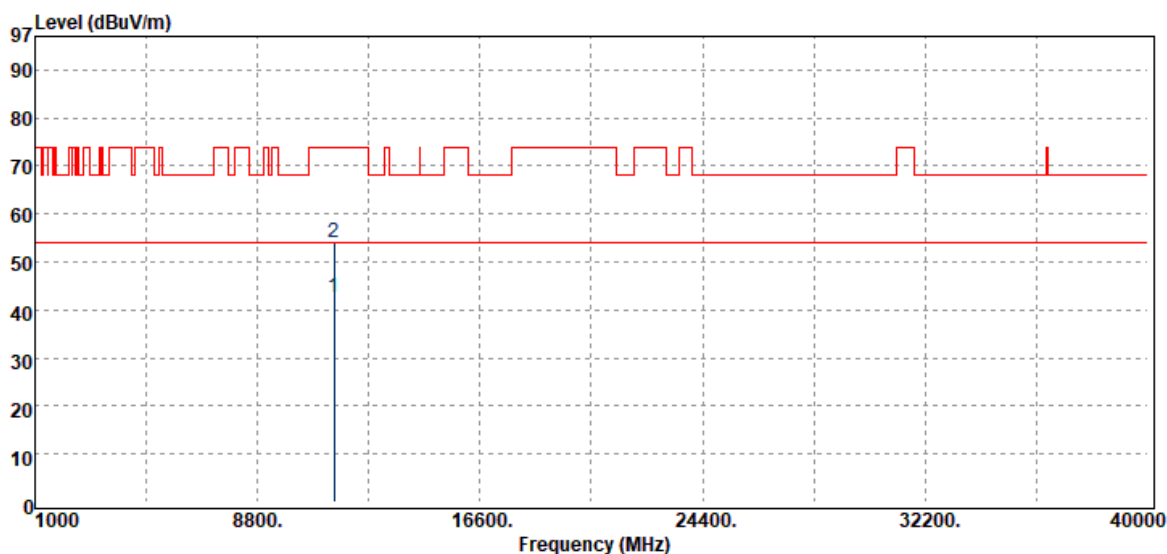
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	23.10	19.66	42.76	54.00	-11.24
11490.00	Peak	34.30	19.66	53.96	74.00	-20.04

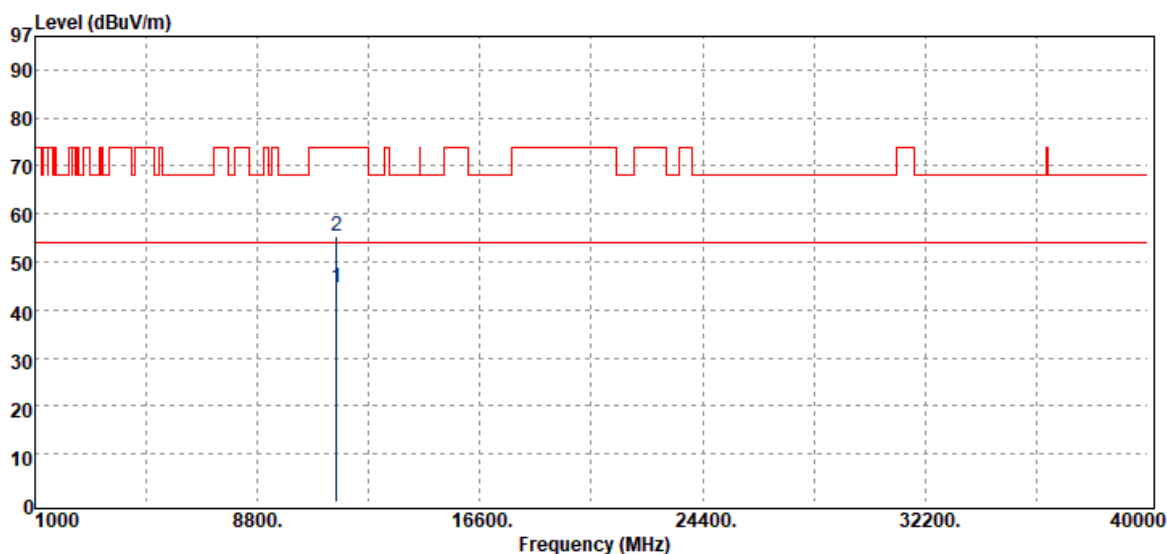
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.58	20.93	44.51	54.00	-9.49
11570.00	Peak	34.32	20.93	55.25	74.00	-18.75

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t (886-2) 2299-3279

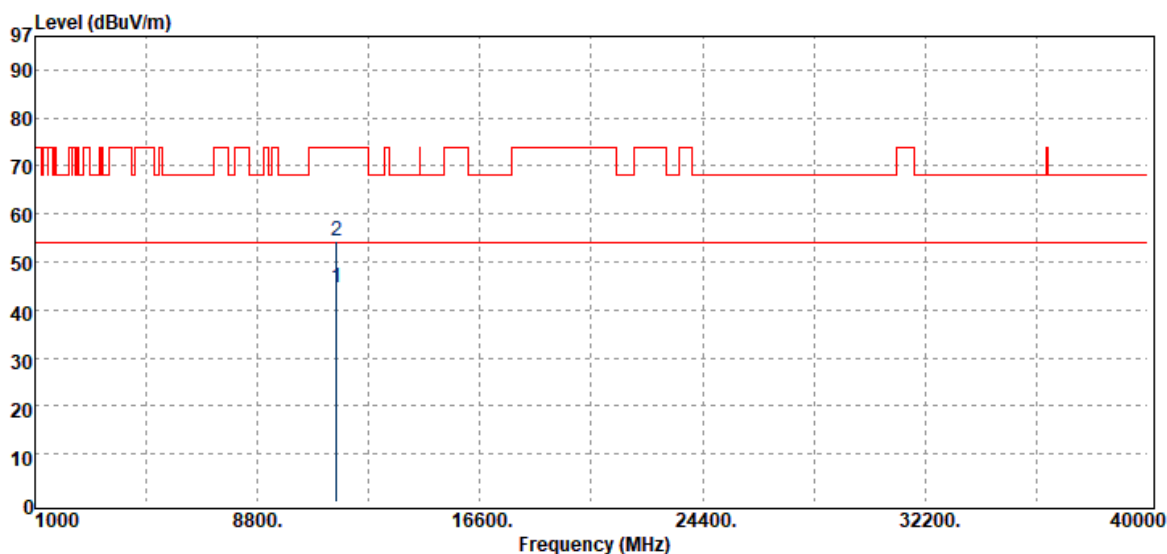
f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.62	20.93	44.55	54.00	-9.45
11570.00	Peak	33.52	20.93	54.45	74.00	-19.55

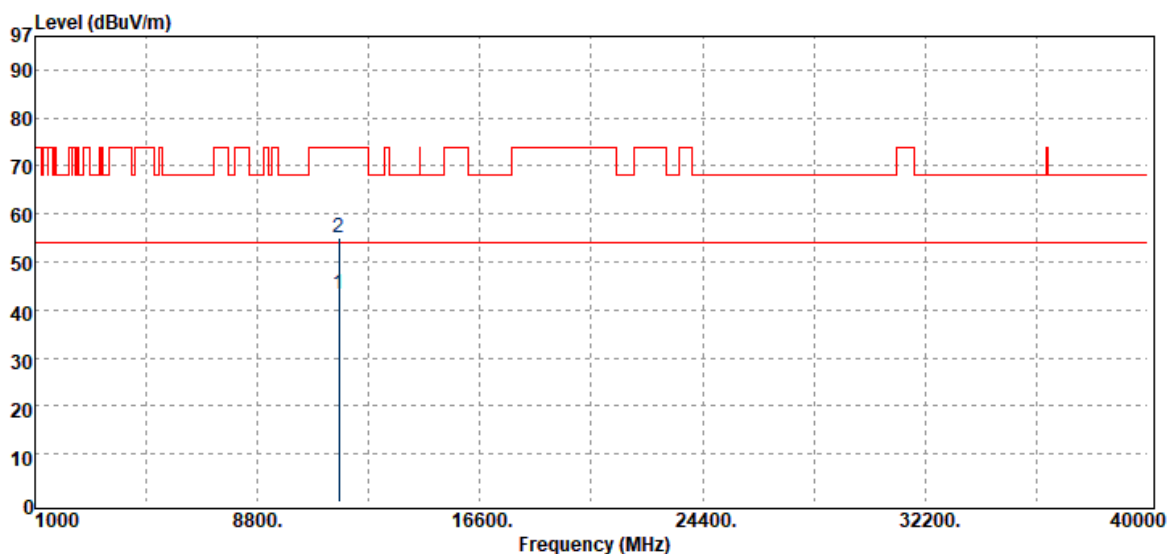
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	23.34	20.07	43.41	54.00	-10.59
11650.00	Peak	34.95	20.07	55.02	74.00	-18.98

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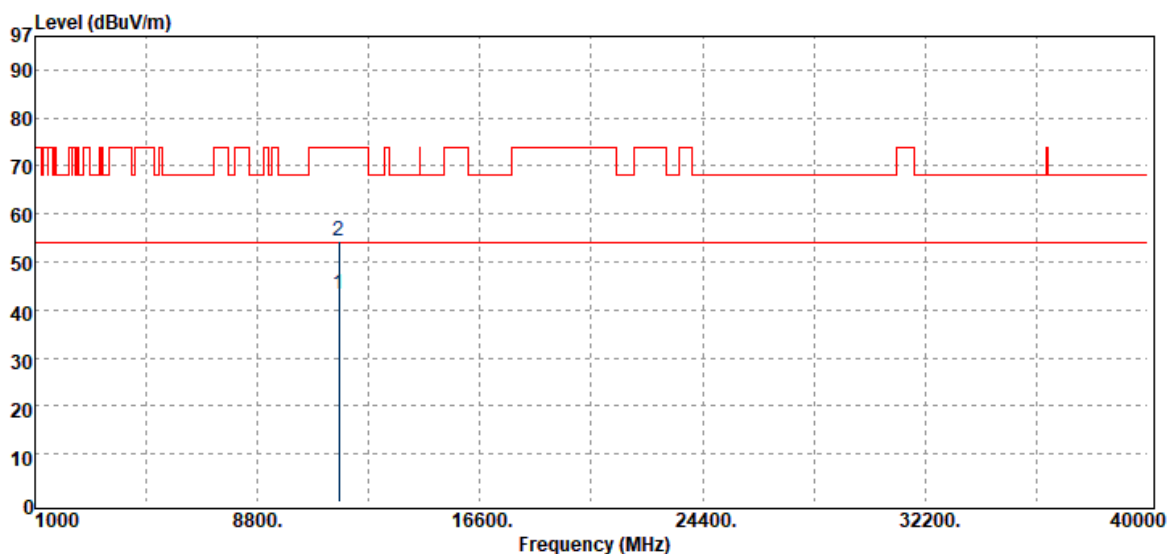
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	23.29	20.07	43.36	54.00	-10.64
11650.00	Peak	34.40	20.07	54.47	74.00	-19.53

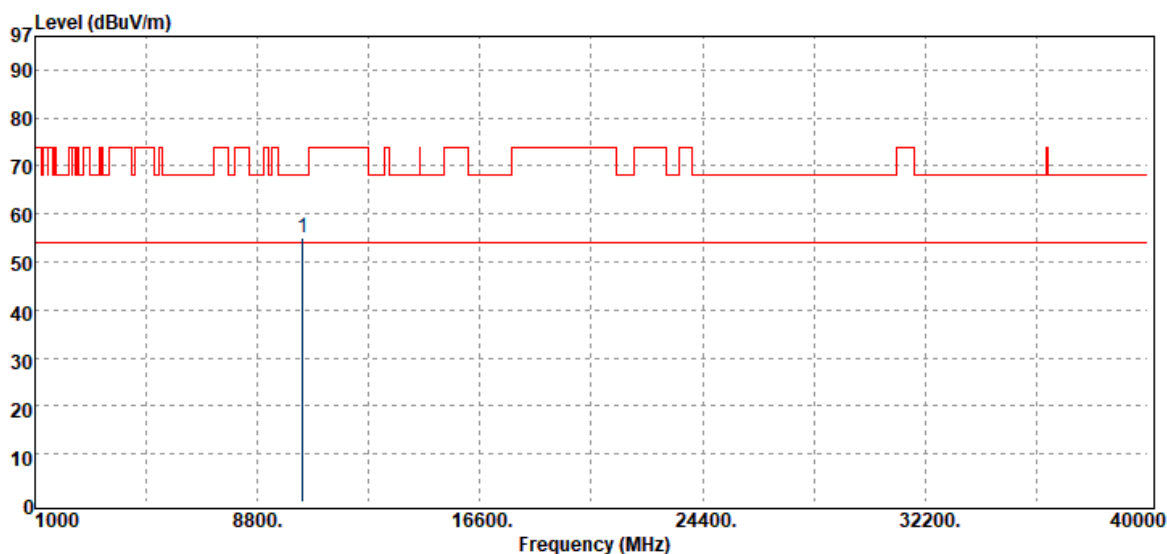
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	35.94	19.00	54.94	68.20	-13.26

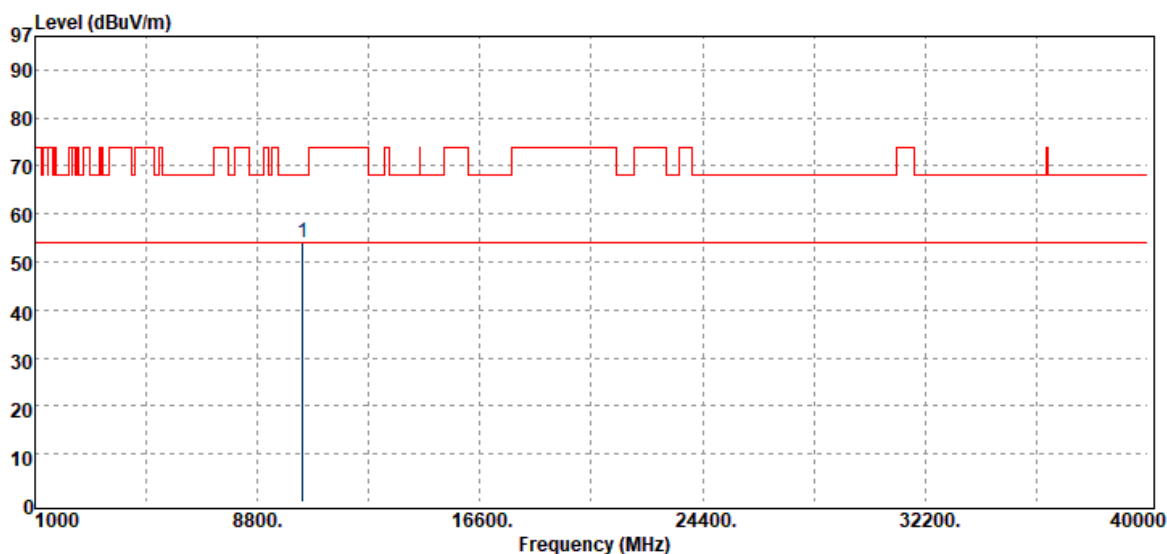
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	35.02	19.00	54.02	68.20	-14.18

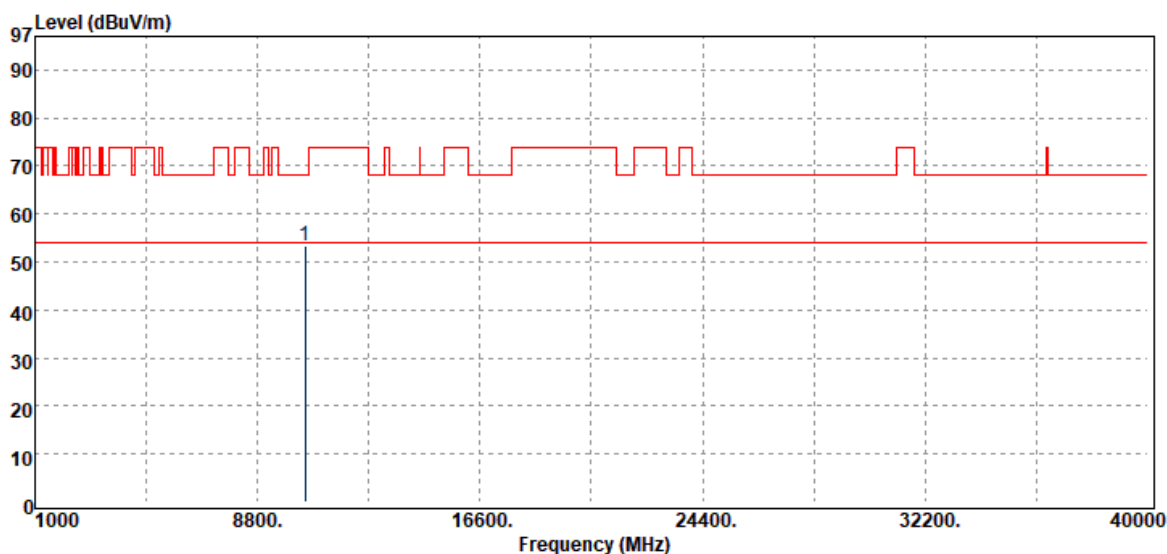
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5230 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	35.09	18.11	53.20	68.20	-15.00

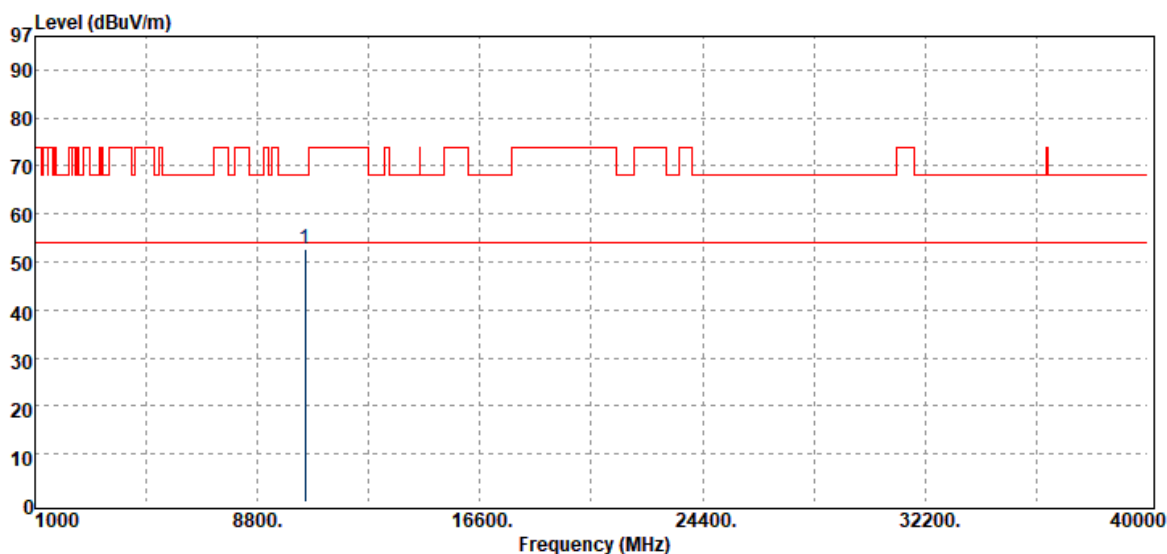
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5230 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	34.70	18.11	52.81	68.20	-15.39

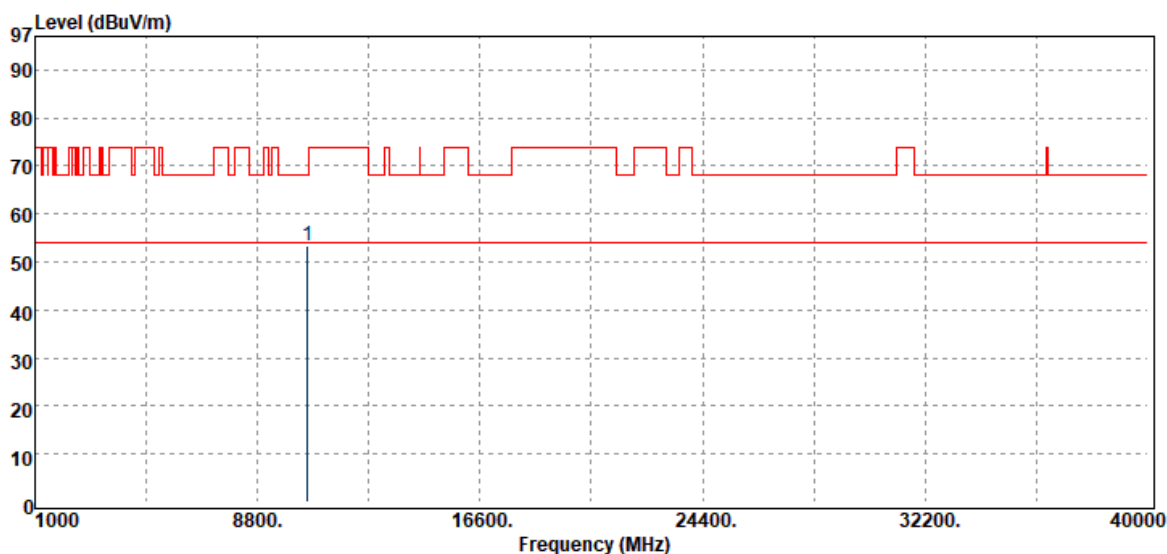
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5270 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	34.95	18.38	53.33	68.20	-14.87

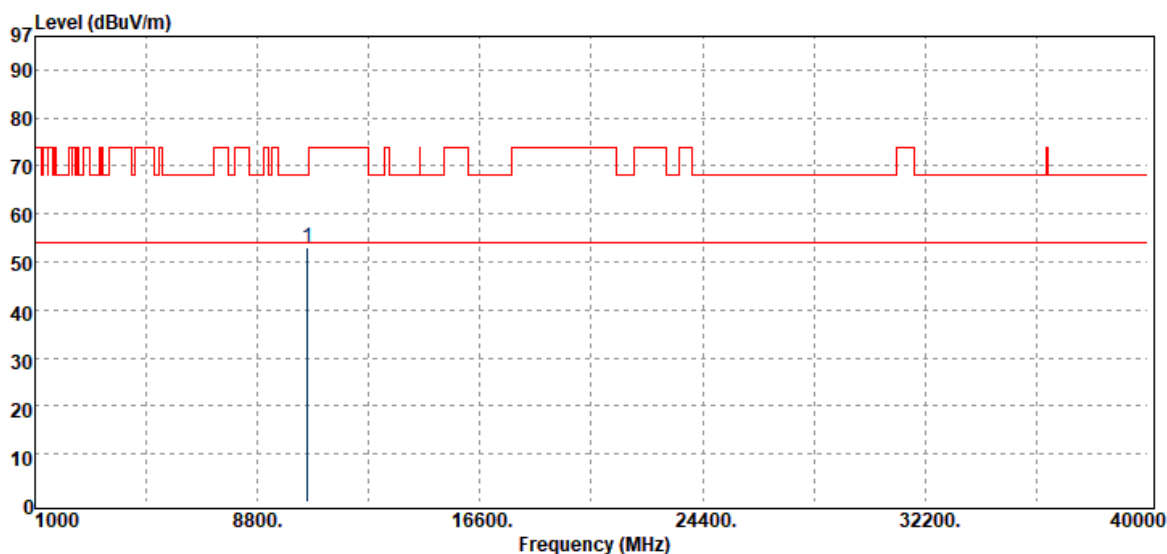
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5270 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	Peak	34.62	18.38	53.00	68.20	-15.20

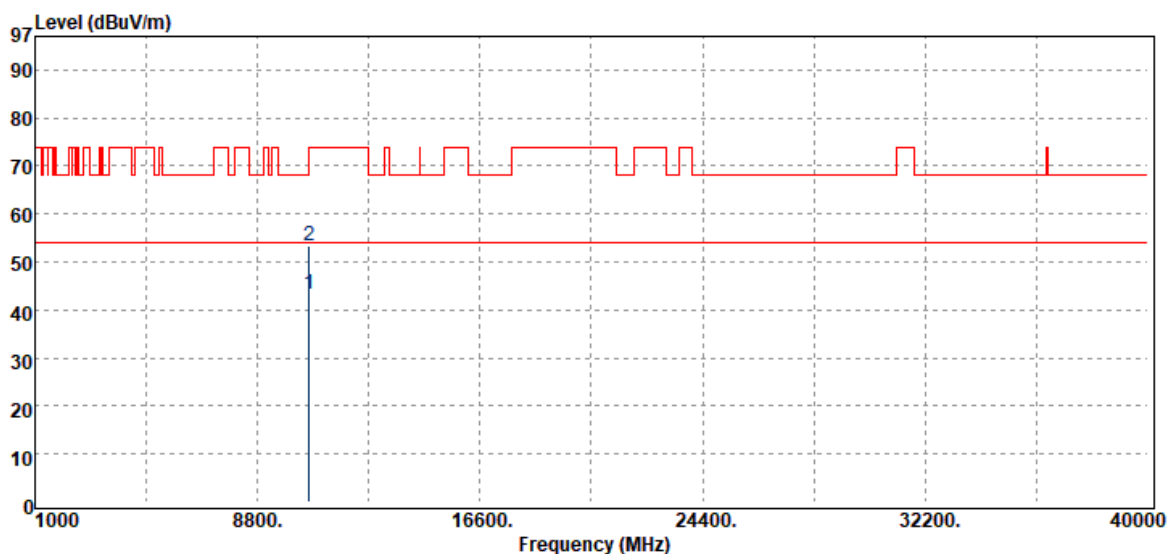
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5310 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	23.84	19.33	43.17	54.00	-10.83
10620.00	Peak	34.03	19.33	53.36	74.00	-20.64

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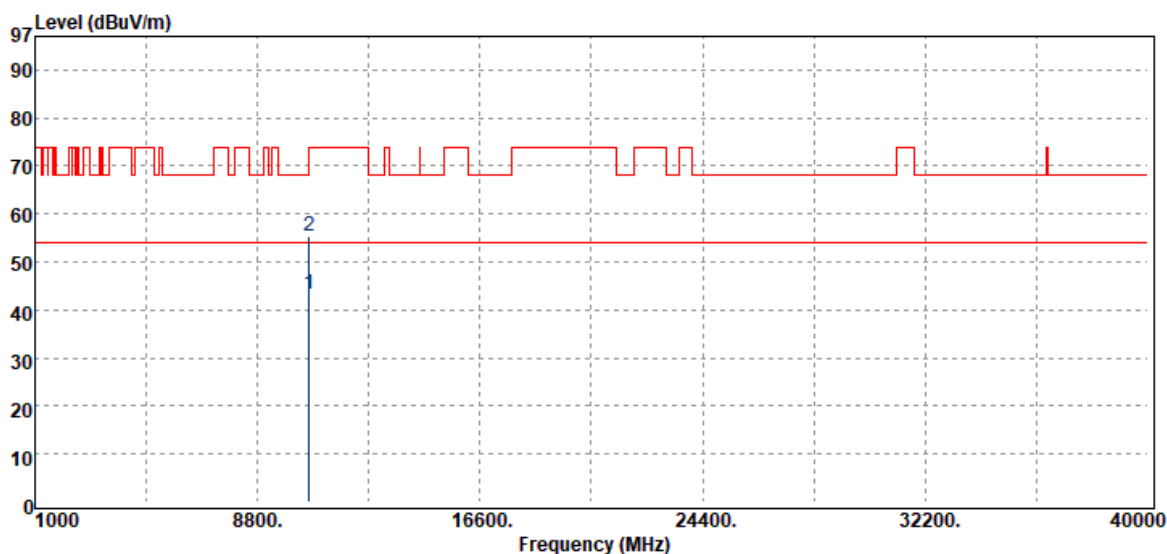
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5310 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	23.88	19.33	43.21	54.00	-10.79
10620.00	Peak	36.19	19.33	55.52	74.00	-18.48

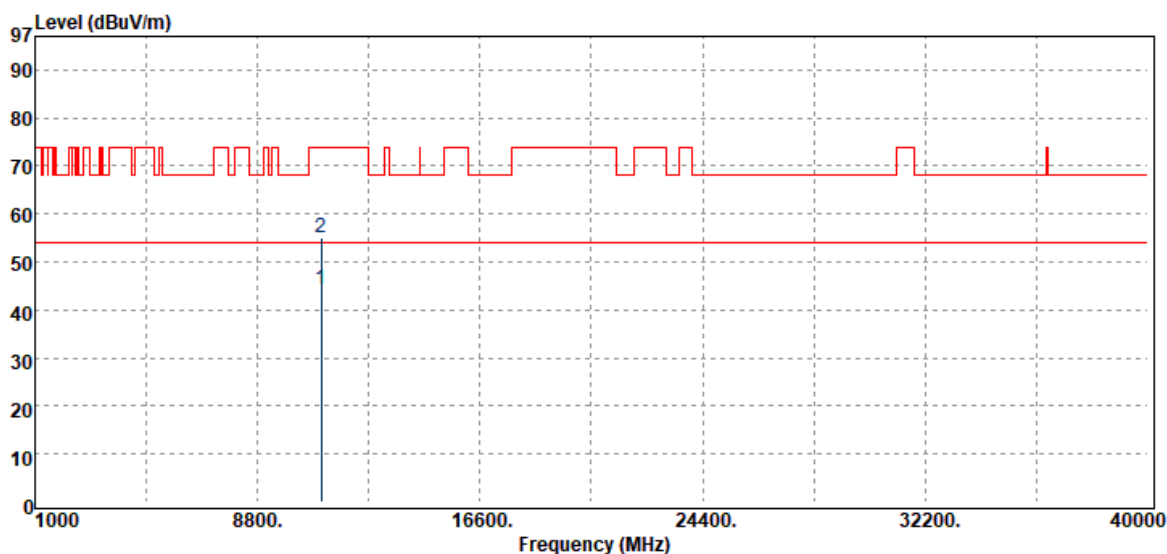
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5510 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	23.65	20.69	44.34	54.00	-9.66
11020.00	Peak	34.46	20.69	55.15	74.00	-18.85

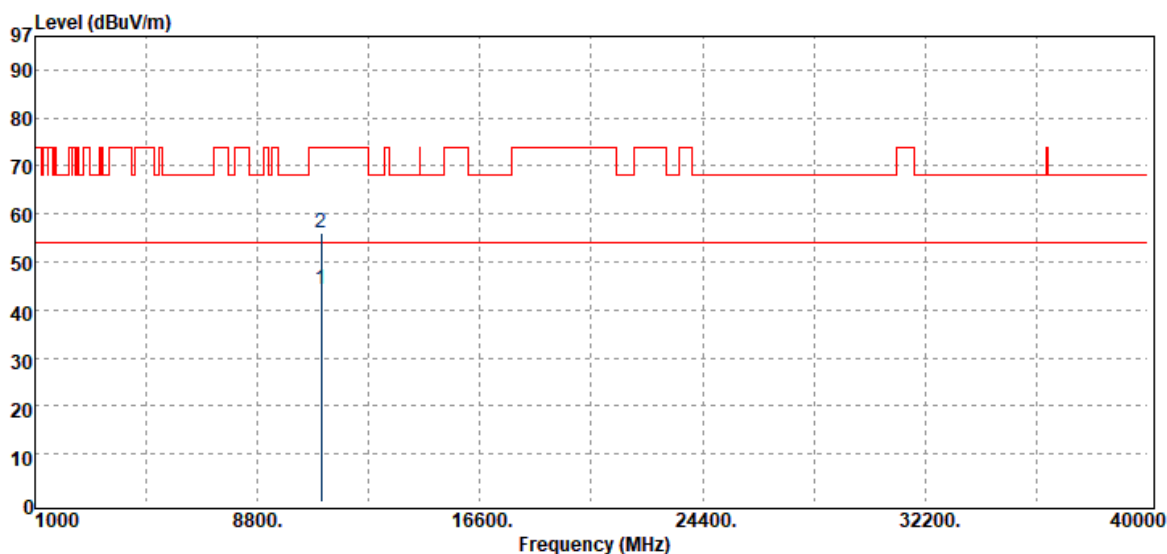
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5510 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	23.57	20.69	44.26	54.00	-9.74
11020.00	Peak	35.33	20.69	56.02	74.00	-17.98

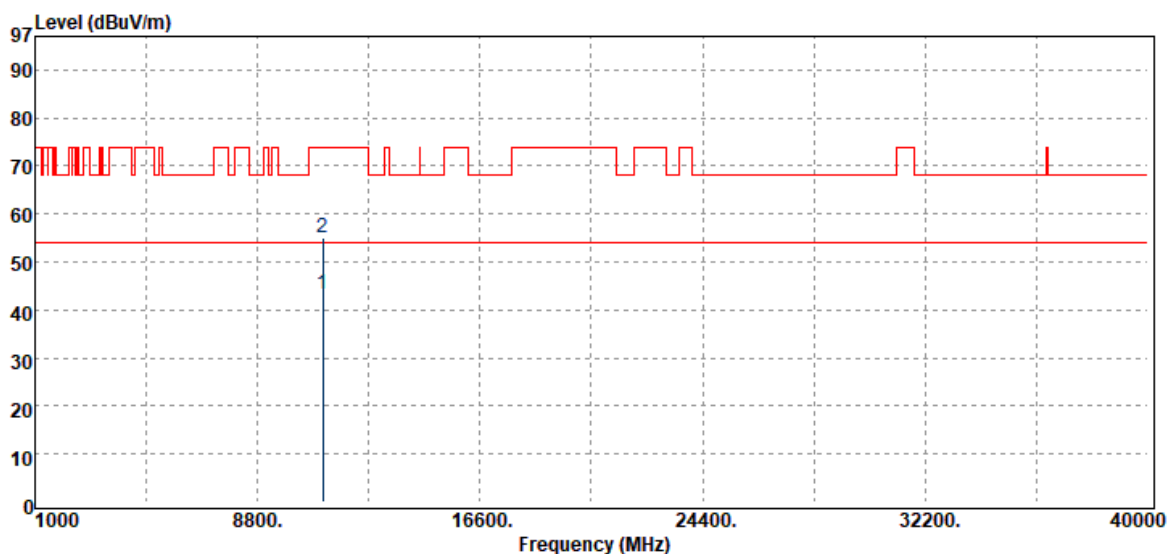
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5550 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	23.60	19.75	43.35	54.00	-10.65
11100.00	Peak	35.34	19.75	55.09	74.00	-18.91

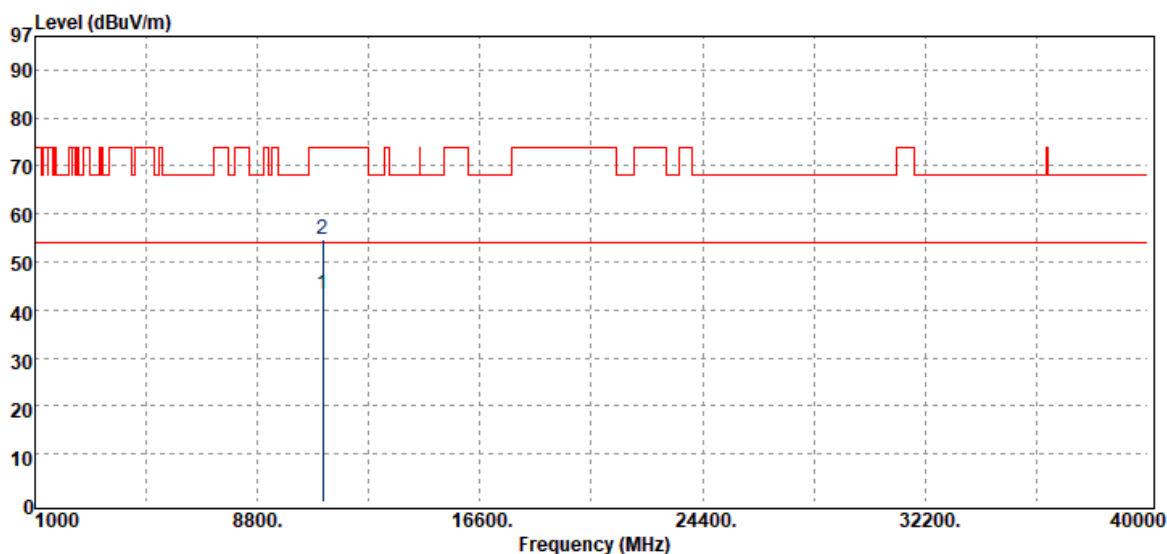
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5550 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	23.69	19.75	43.44	54.00	-10.56
11100.00	Peak	35.03	19.75	54.78	74.00	-19.22

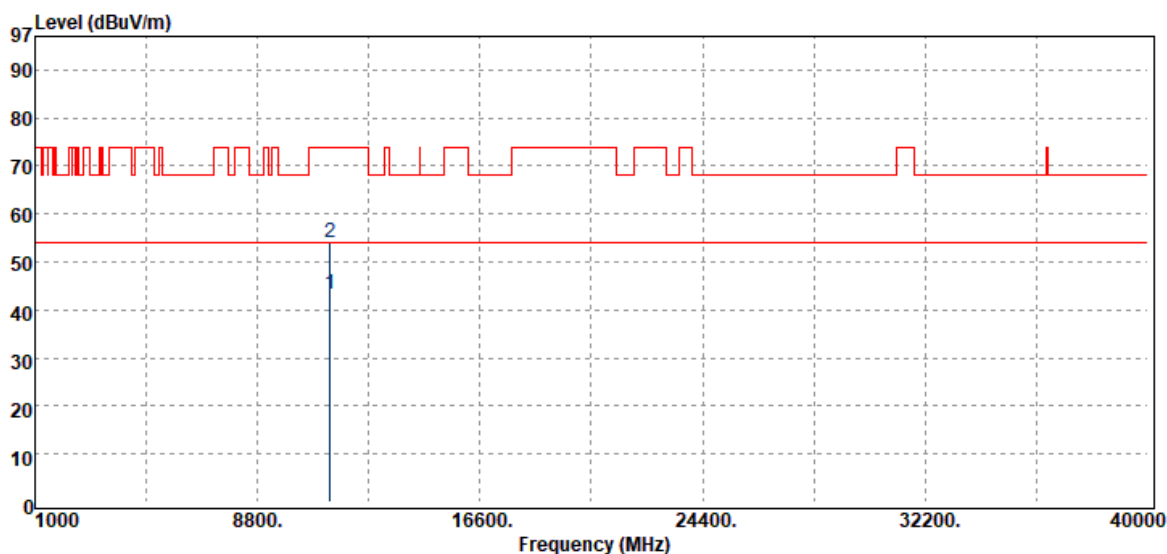
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	23.71	19.73	43.44	54.00	-10.56
11340.00	Peak	34.37	19.73	54.10	74.00	-19.90

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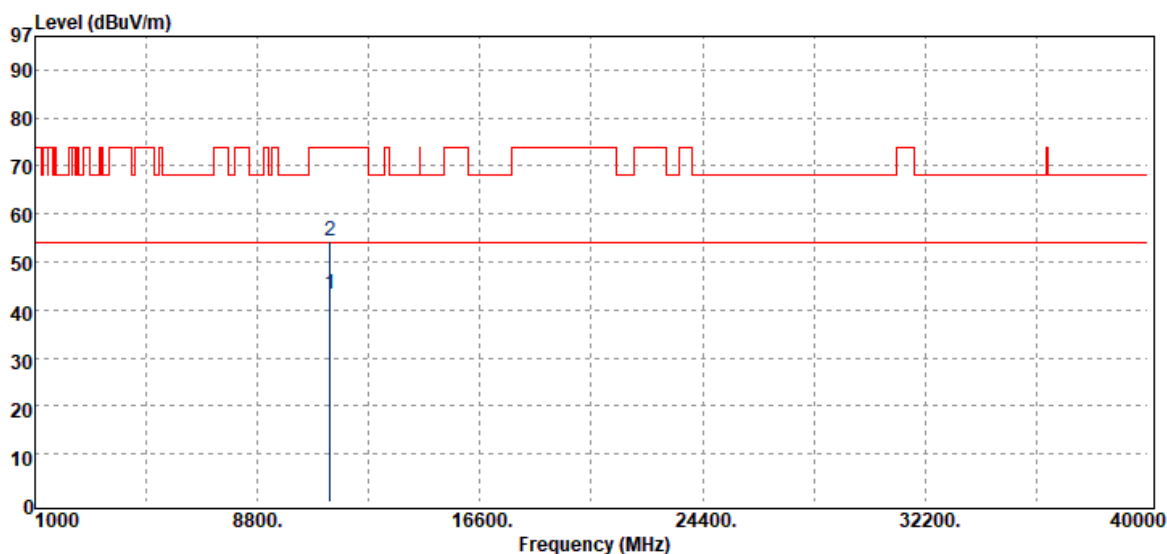
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	23.62	19.73	43.35	54.00	-10.65
11340.00	Peak	34.77	19.73	54.50	74.00	-19.50

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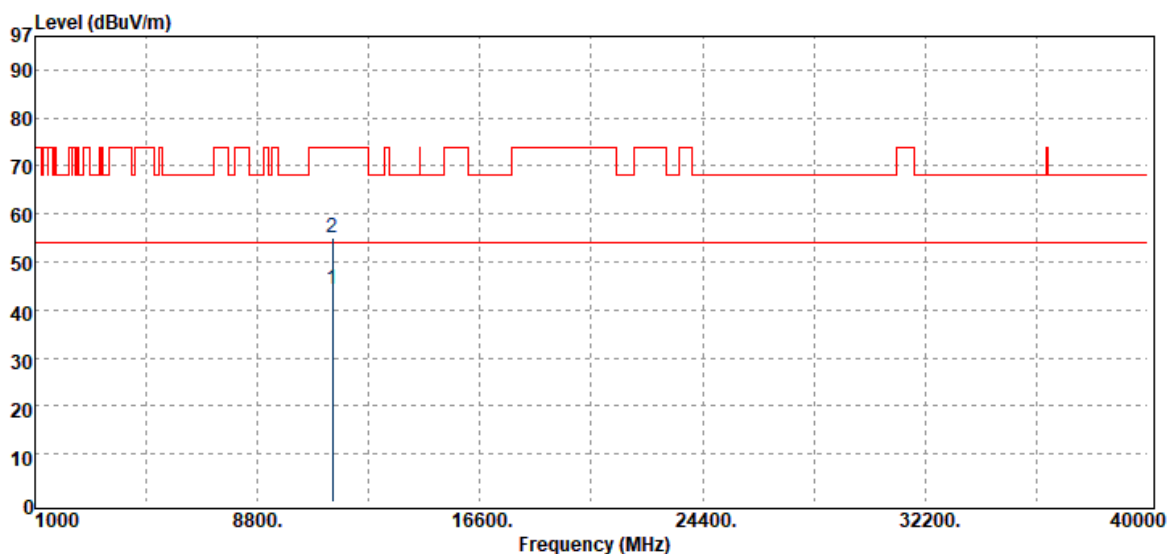
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3/B4
Test Channel :5710 MHz
Test Mode :Tx CH 142 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	23.39	21.00	44.39	54.00	-9.61
11420.00	Peak	33.98	21.00	54.98	74.00	-19.02

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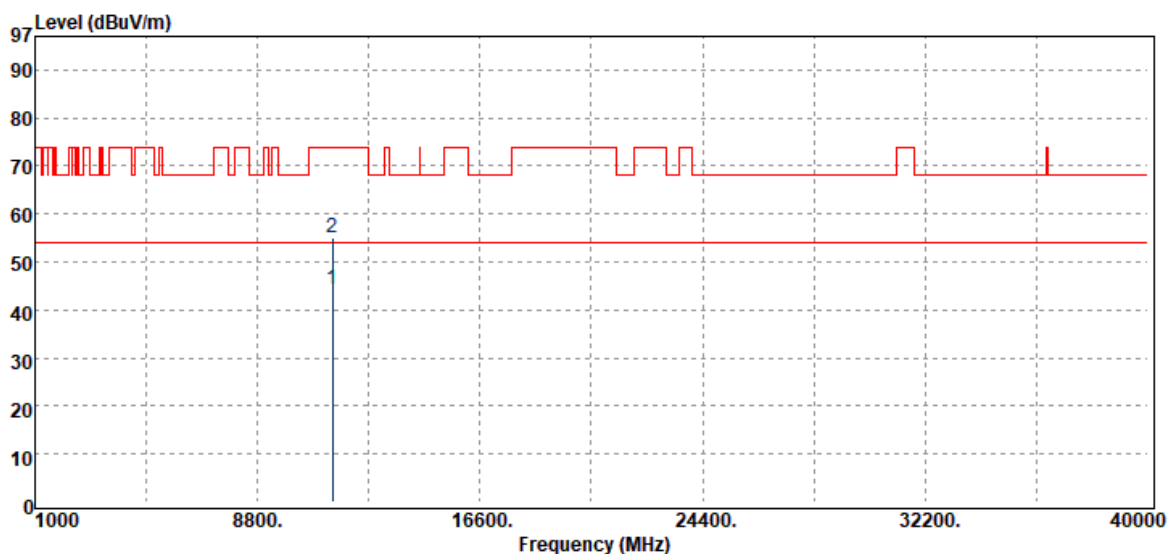
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3/B4
Test Channel :5710 MHz
Test Mode :Tx CH 142 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	23.45	21.00	44.45	54.00	-9.55
11420.00	Peak	34.02	21.00	55.02	74.00	-18.98

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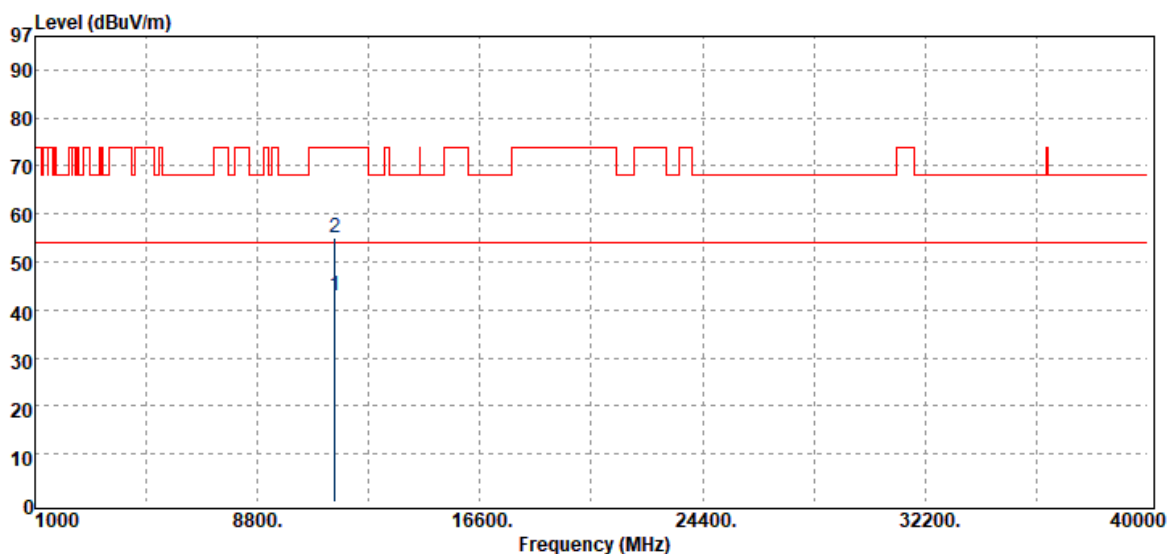
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	23.18	19.78	42.96	54.00	-11.04
11510.00	Peak	35.33	19.78	55.11	74.00	-18.89

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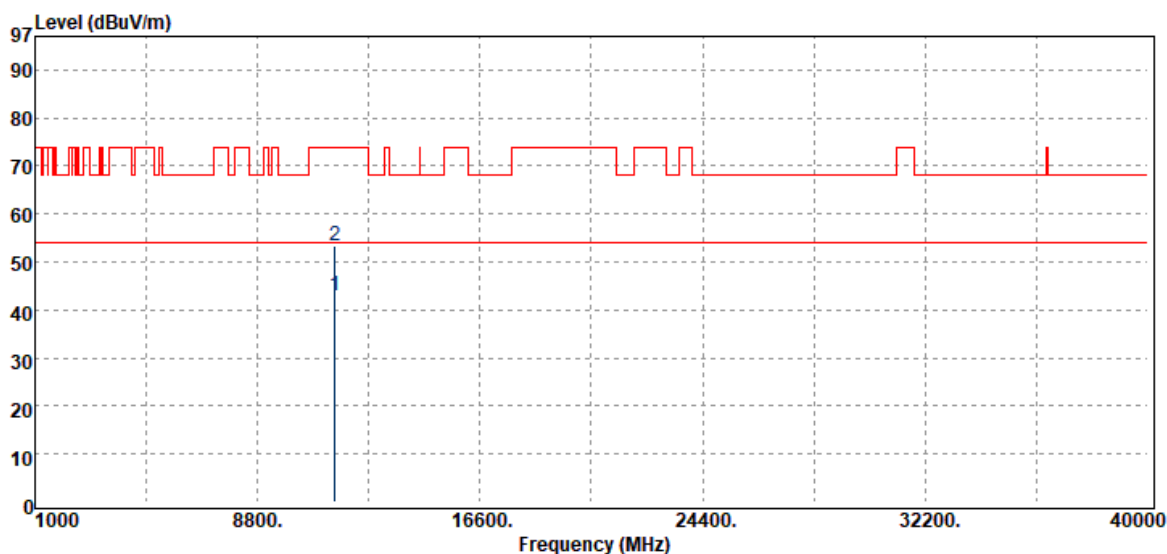
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	23.21	19.78	42.99	54.00	-11.01
11510.00	Peak	33.65	19.78	53.43	74.00	-20.57

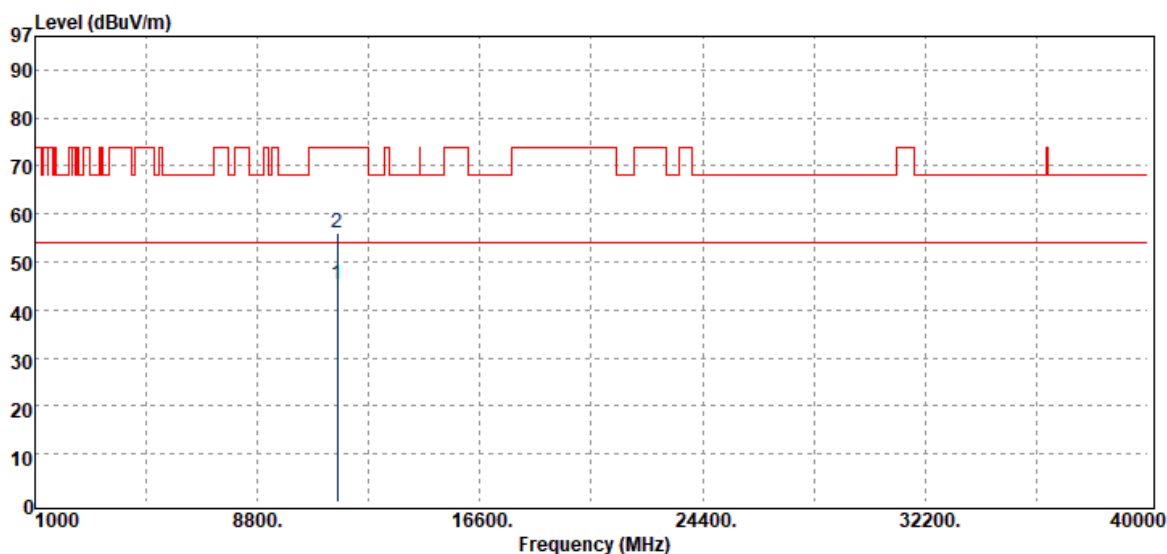
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	23.77	21.38	45.15	54.00	-8.85
11590.00	Peak	34.74	21.38	56.12	74.00	-17.88

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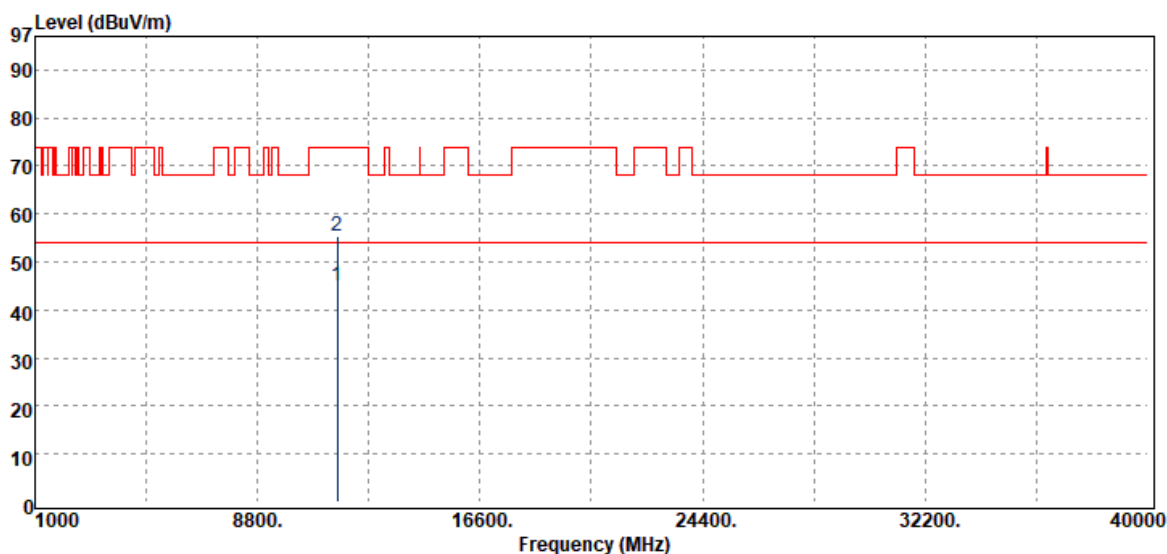
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	23.75	21.38	45.13	54.00	-8.87
11590.00	Peak	34.12	21.38	55.50	74.00	-18.50

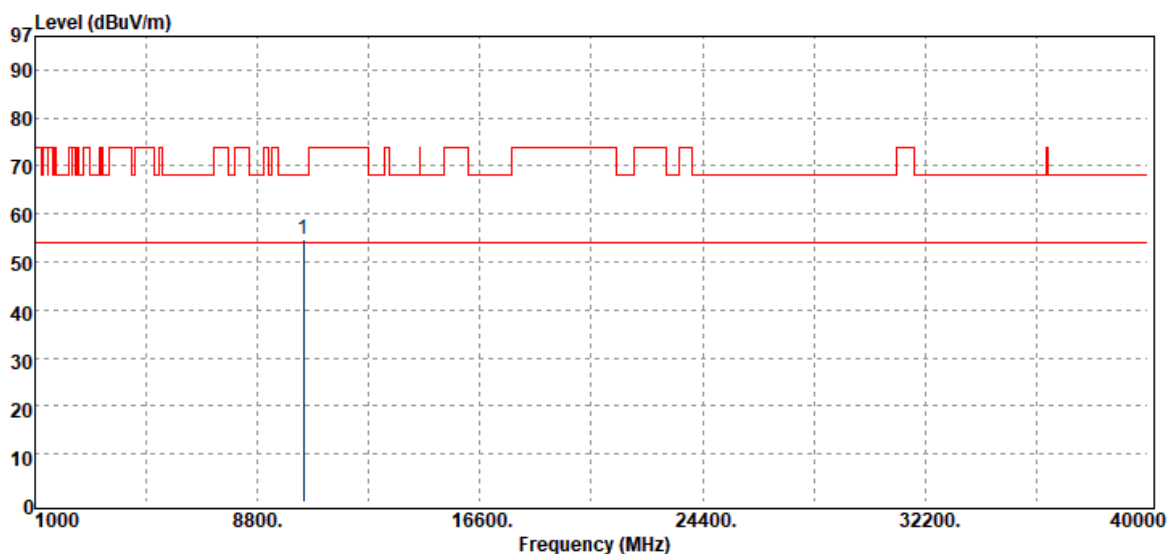
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	35.69	18.93	54.62	68.20	-13.58

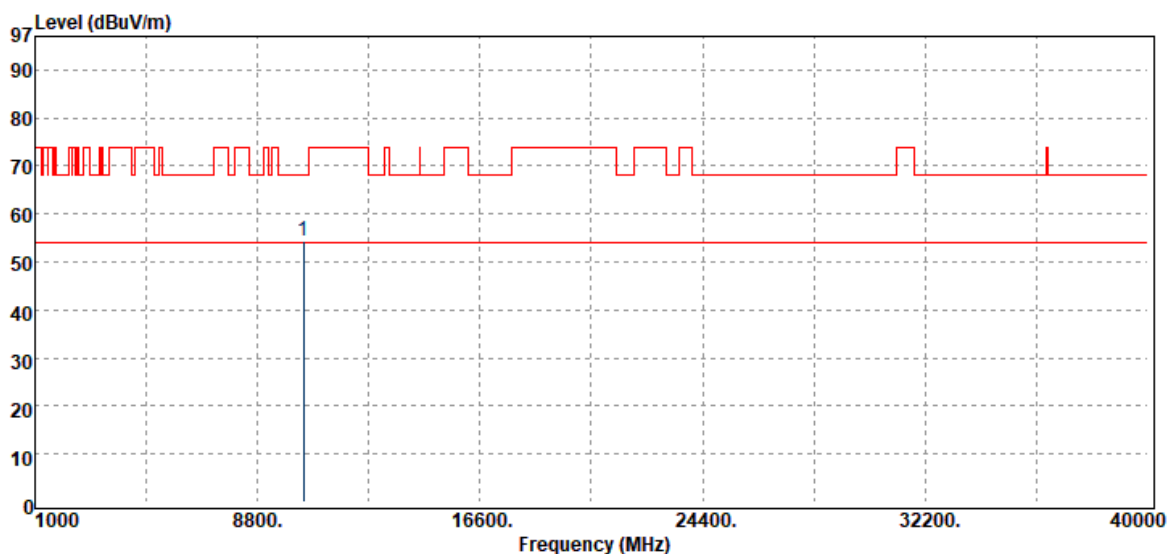
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	35.55	18.93	54.48	68.20	-13.72

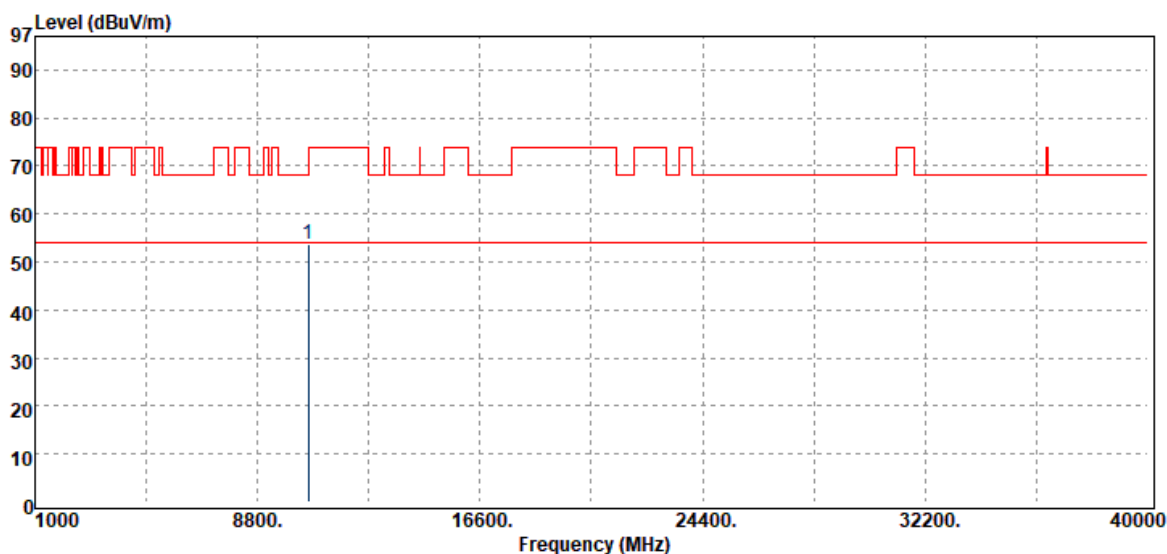
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B2
Test Channel :5290 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	34.75	18.85	53.60	68.20	-14.60

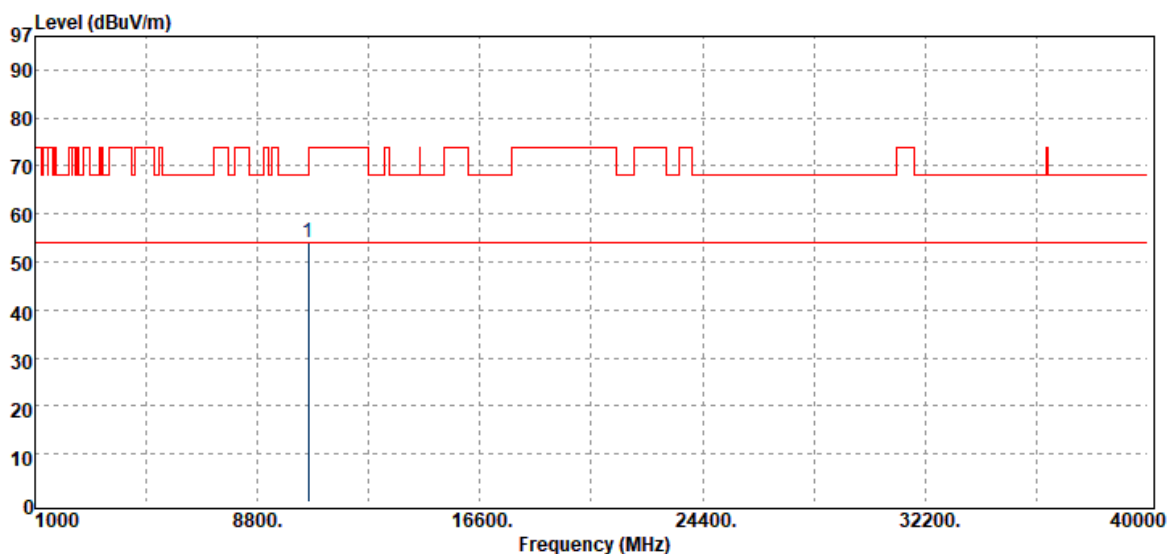
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B2
Test Channel :5290 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	35.25	18.85	54.10	68.20	-14.10

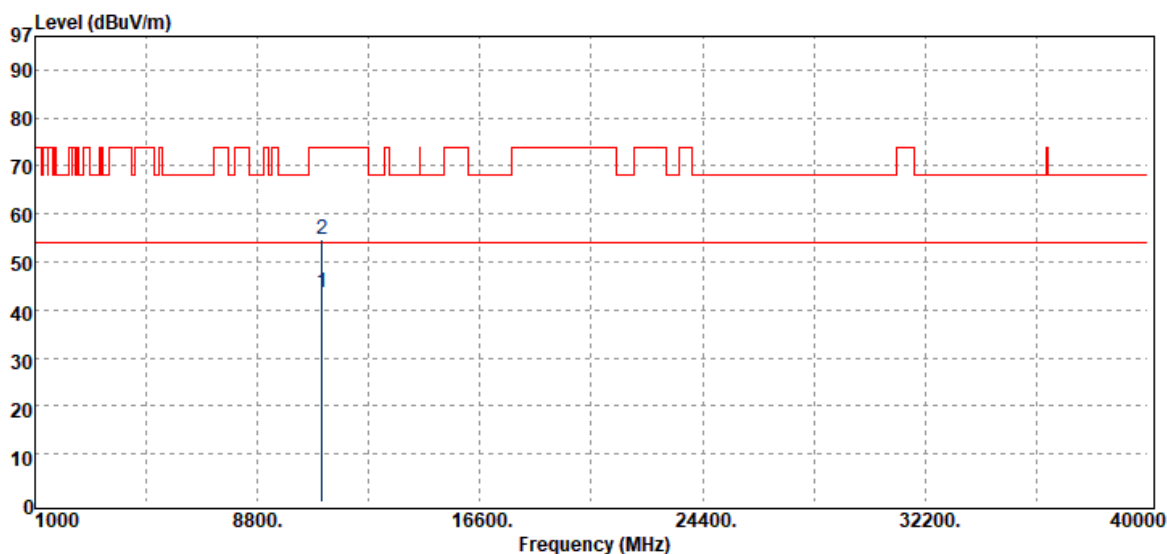
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5530 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.35	20.19	43.54	54.00	-10.46
11060.00	Peak	34.53	20.19	54.72	74.00	-19.28

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台灣檢驗科技股份有限公司

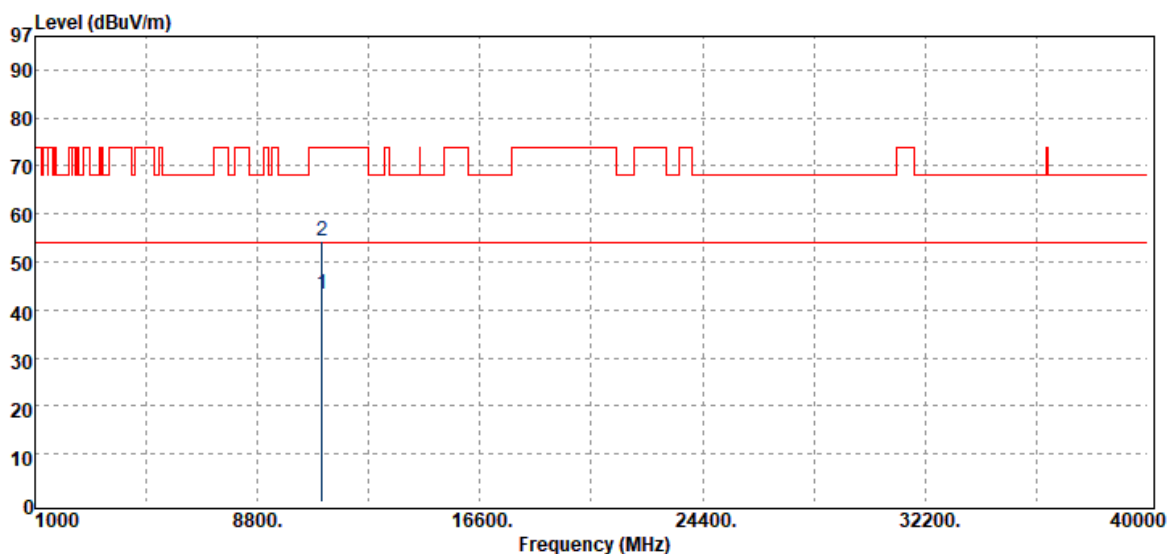
No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/ 新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488

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Member of SGS Group

Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE80B3
 Test Channel :5530 MHz
 Test Mode :Tx CH Low RU full
 EUT Pol :E1 Plane

Test Date :2020-01-14
 Temp./Humi. :22.7/67
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	23.27	20.19	43.46	54.00	-10.54
11060.00	Peak	34.08	20.19	54.27	74.00	-19.73

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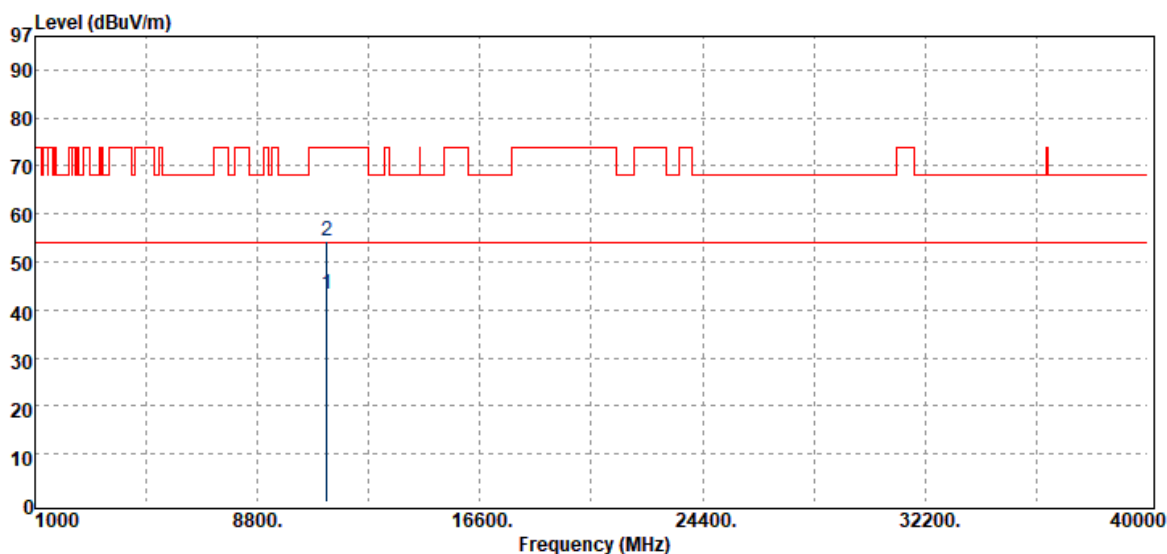
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 t (886-2) 2299-3279 f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5610 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	23.62	19.80	43.42	54.00	-10.58
11220.00	Peak	34.56	19.80	54.36	74.00	-19.64

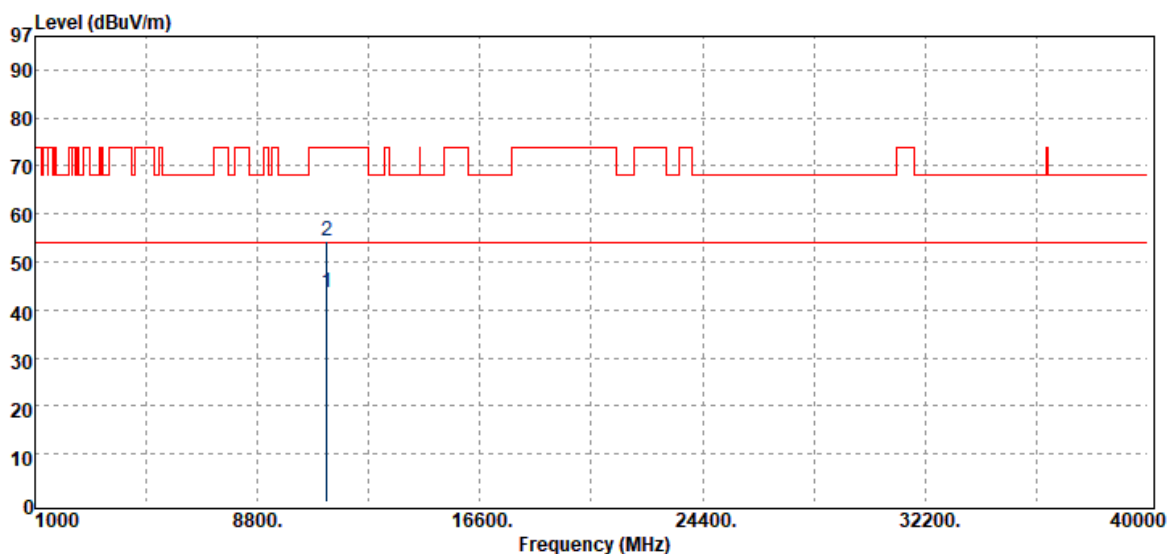
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5610 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	23.69	19.80	43.49	54.00	-10.51
11220.00	Peak	34.74	19.80	54.54	74.00	-19.46

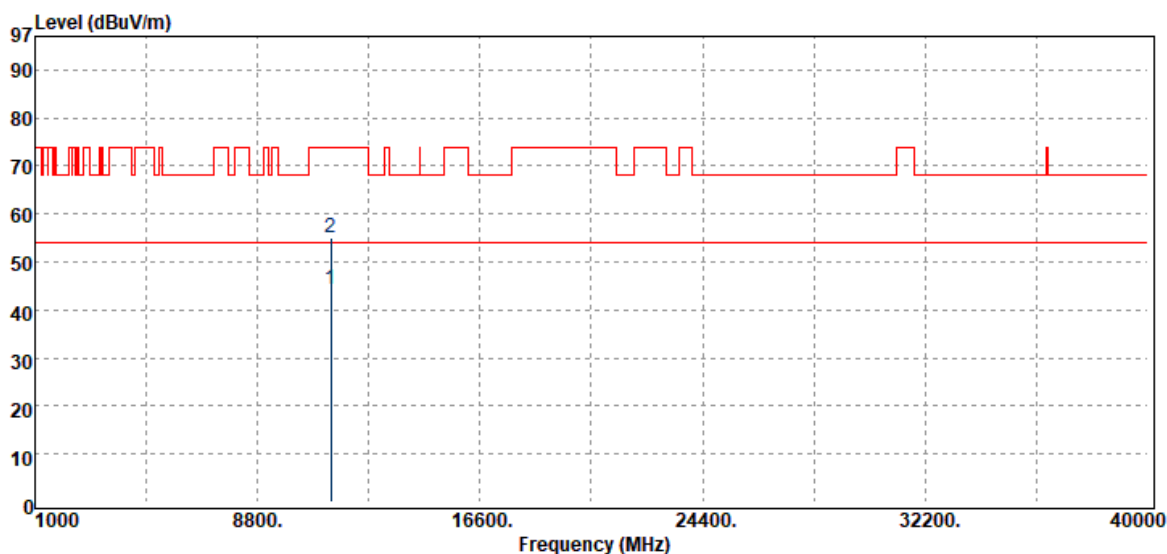
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3/B4
Test Channel :5690 MHz
Test Mode :Tx CH 138 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	23.53	20.75	44.28	54.00	-9.72
11380.00	Peak	34.27	20.75	55.02	74.00	-18.98

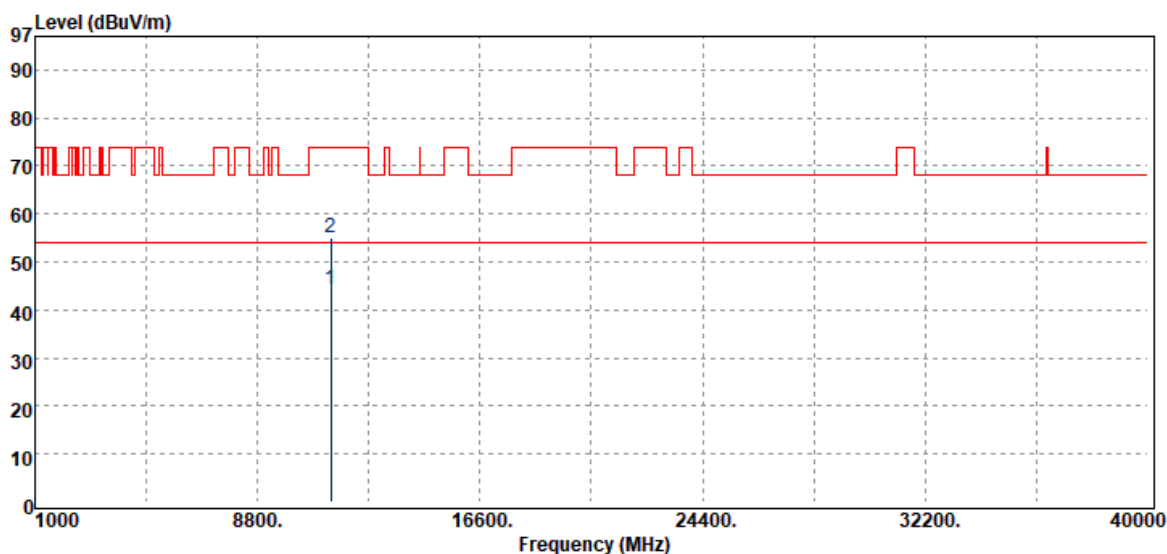
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3/B4
Test Channel :5690 MHz
Test Mode :Tx CH 138 RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	23.61	20.75	44.36	54.00	-9.64
11380.00	Peak	34.42	20.75	55.17	74.00	-18.83

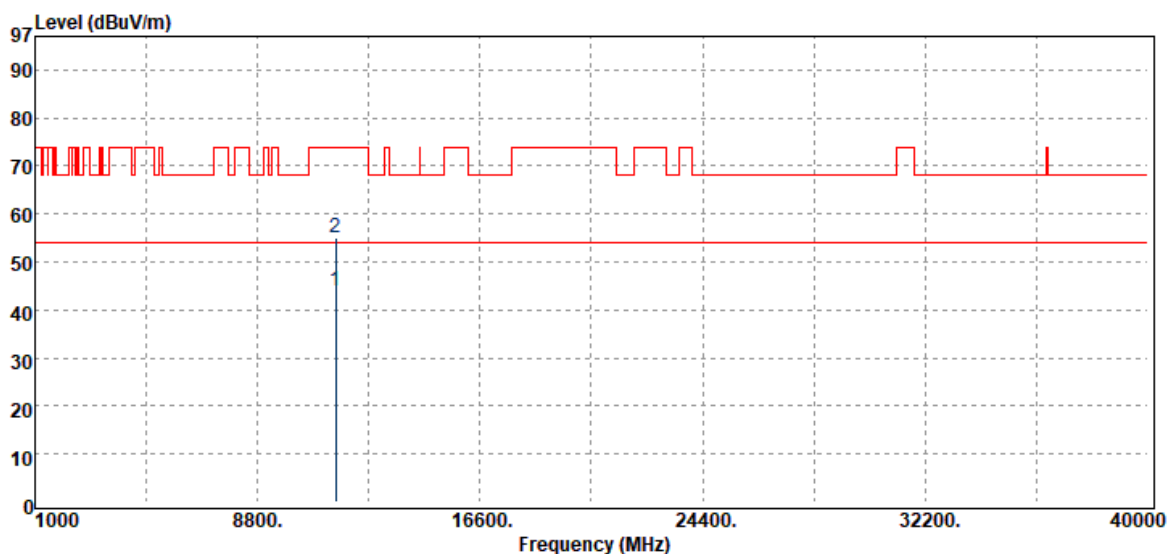
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	23.42	20.48	43.90	54.00	-10.10
11550.00	Peak	34.58	20.48	55.06	74.00	-18.94

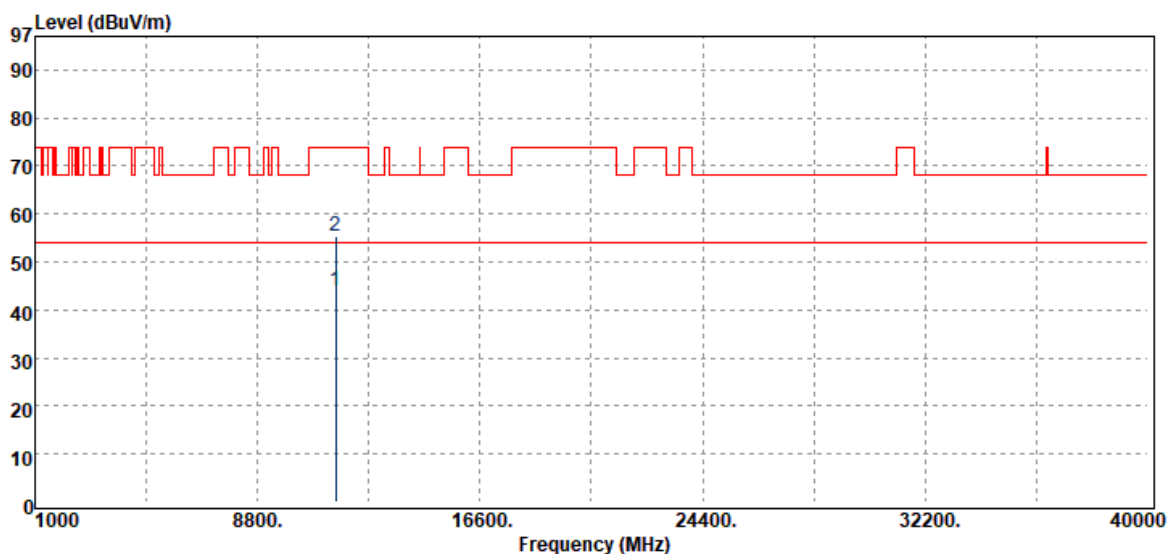
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-14
Temp./Humi. :22.7/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	23.44	20.48	43.92	54.00	-10.08
11550.00	Peak	34.93	20.48	55.41	74.00	-18.59

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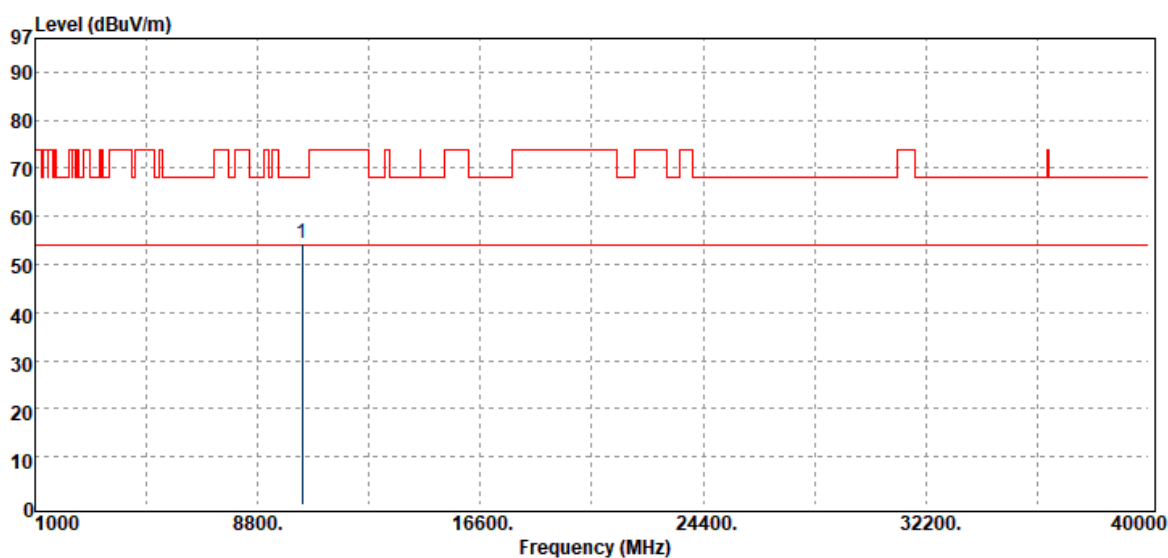
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Spot Check :

Report Number :ER/2019/C0154
Operation Mode :802.11a B1
Test Channel :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.78	18.72	54.50	68.20	-13.70

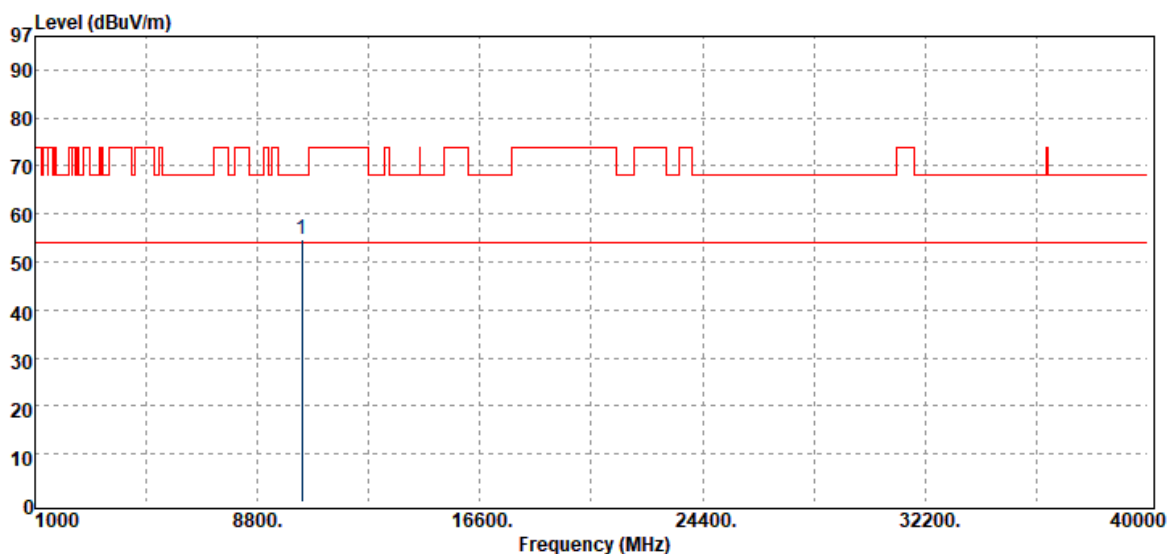
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Report Number :ER/2019/C0154
Operation Mode :802.11a B1
Test Channel :5180 MHz
Test Mode :Tx CH Low
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.88	18.72	54.60	68.20	-13.60

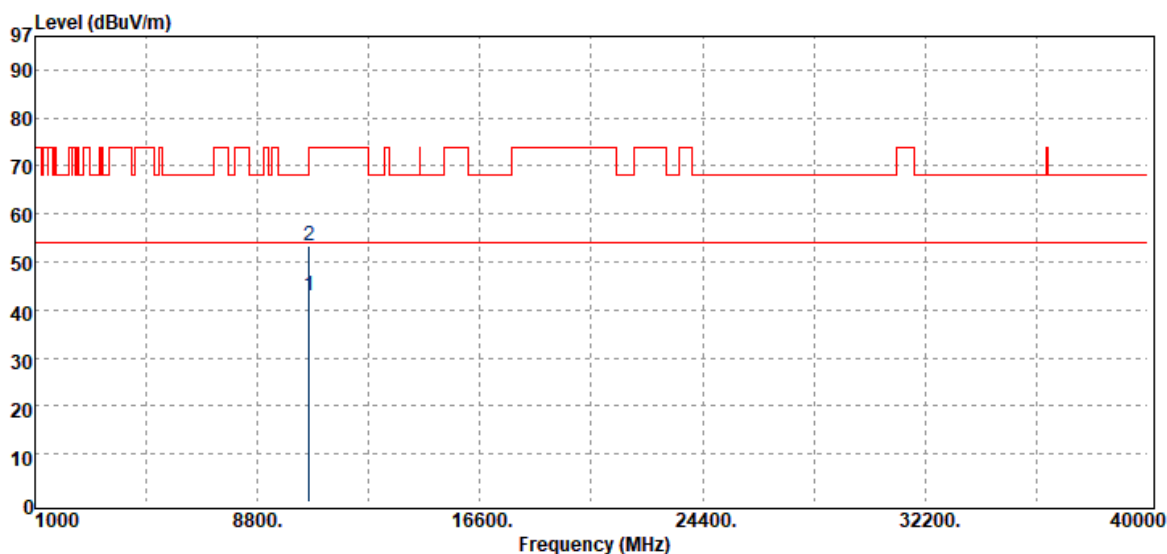
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Report Number :ER/2019/C0154
Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.73	19.18	42.91	54.00	-11.09
10600.00	Peak	34.35	19.18	53.53	74.00	-20.47

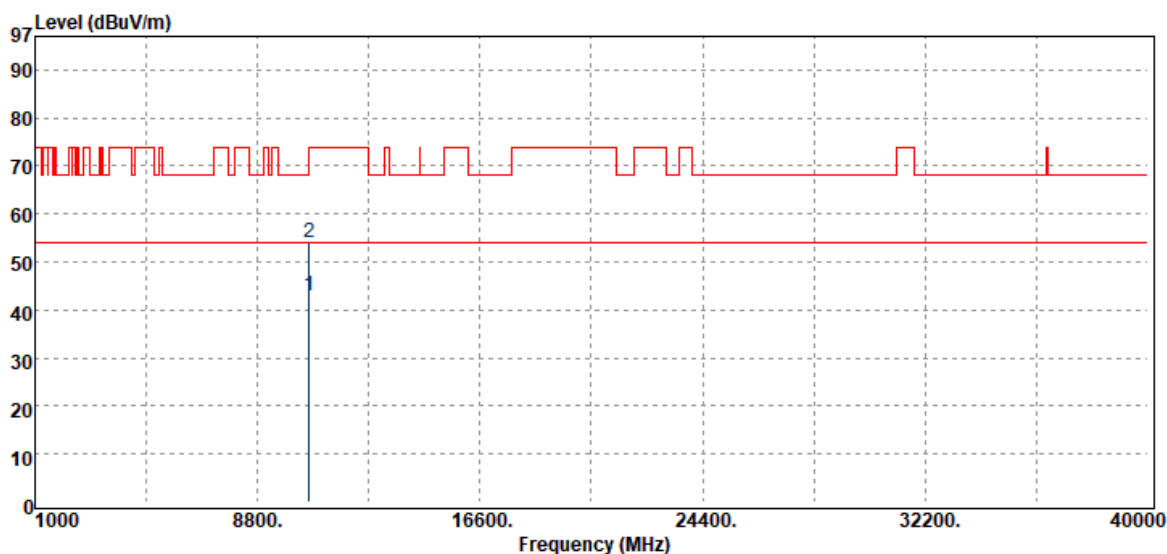
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Report Number :ER/2019/C0154
Operation Mode :802.11a B2
Test Channel :5300 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	23.68	19.18	42.86	54.00	-11.14
10600.00	Peak	34.83	19.18	54.01	74.00	-19.99

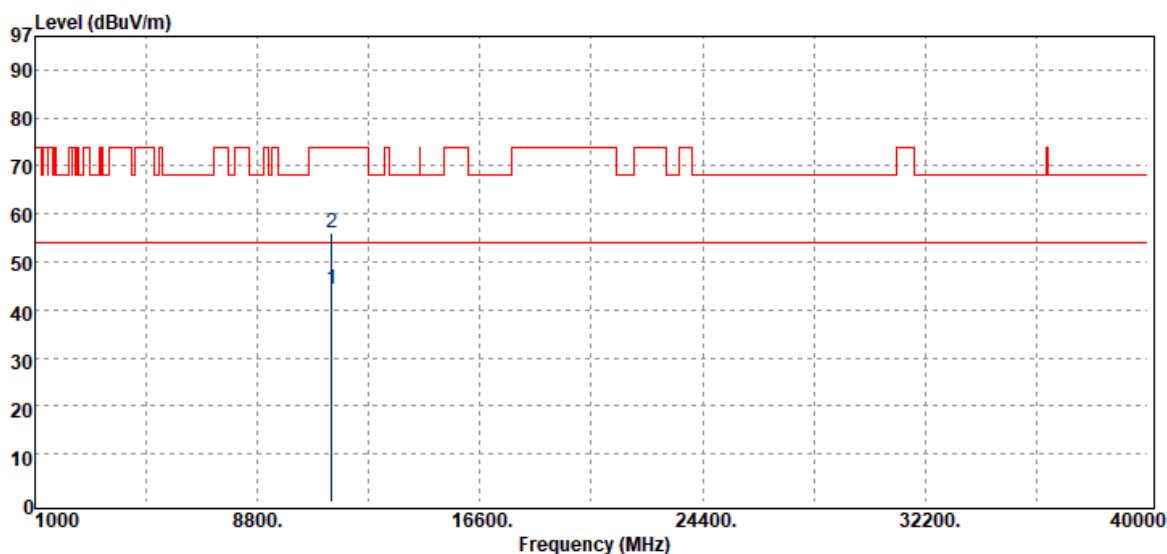
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Report Number :ER/2019/C0154
Operation Mode :802.11a B3
Test Channel :5700 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.28	21.10	44.38	54.00	-9.62
11400.00	Peak	34.99	21.10	56.09	74.00	-17.91

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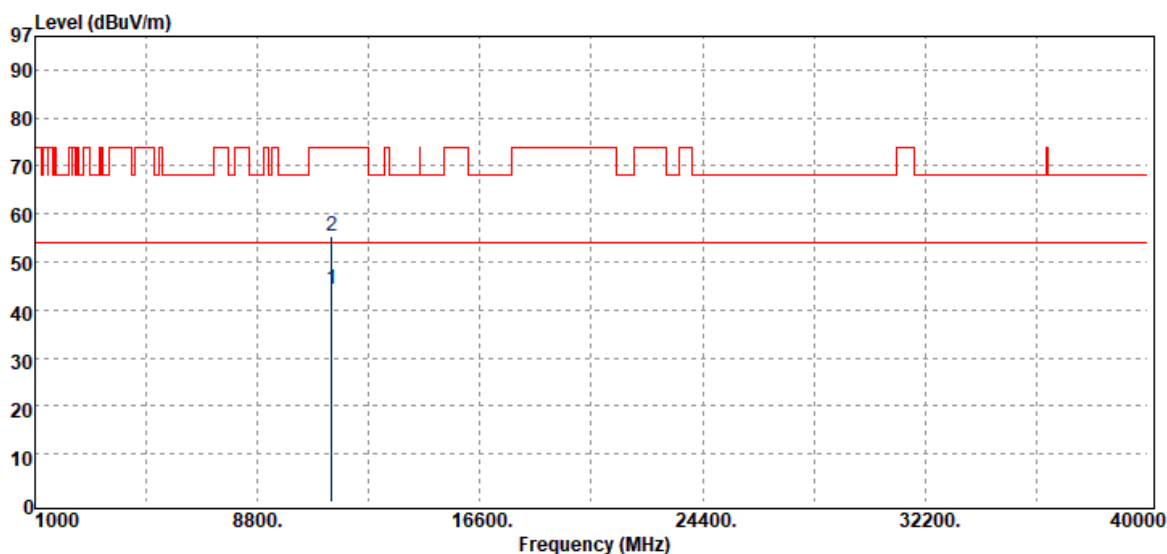
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Report Number :ER/2019/C0154
Operation Mode :802.11a B3
Test Channel :5700 MHz
Test Mode :Tx CH High
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.20	21.10	44.30	54.00	-9.70
11400.00	Peak	34.27	21.10	55.37	74.00	-18.63

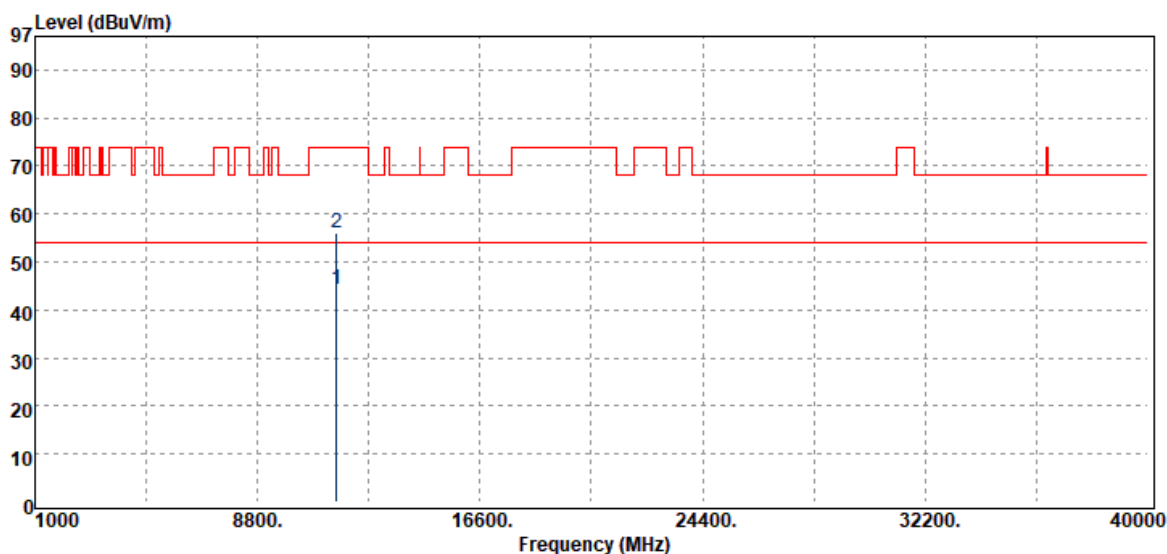
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Report Number :ER/2019/C0154
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.25	20.93	44.18	54.00	-9.82
11570.00	Peak	35.00	20.93	55.93	74.00	-18.07

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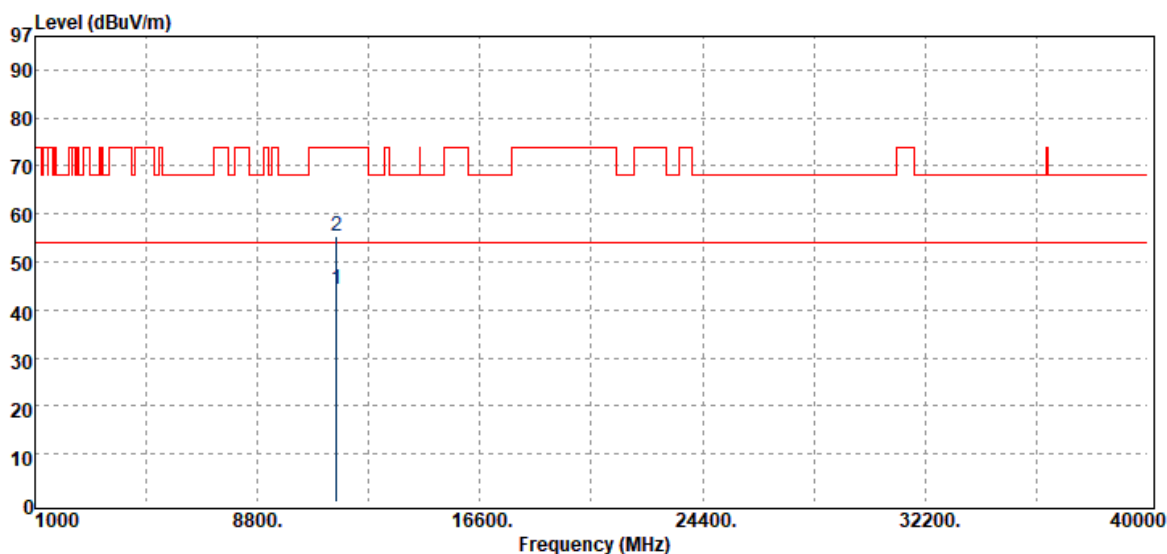
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Report Number :ER/2019/C0154
Operation Mode :802.11a B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.23	20.93	44.16	54.00	-9.84
11570.00	Peak	34.55	20.93	55.48	74.00	-18.52

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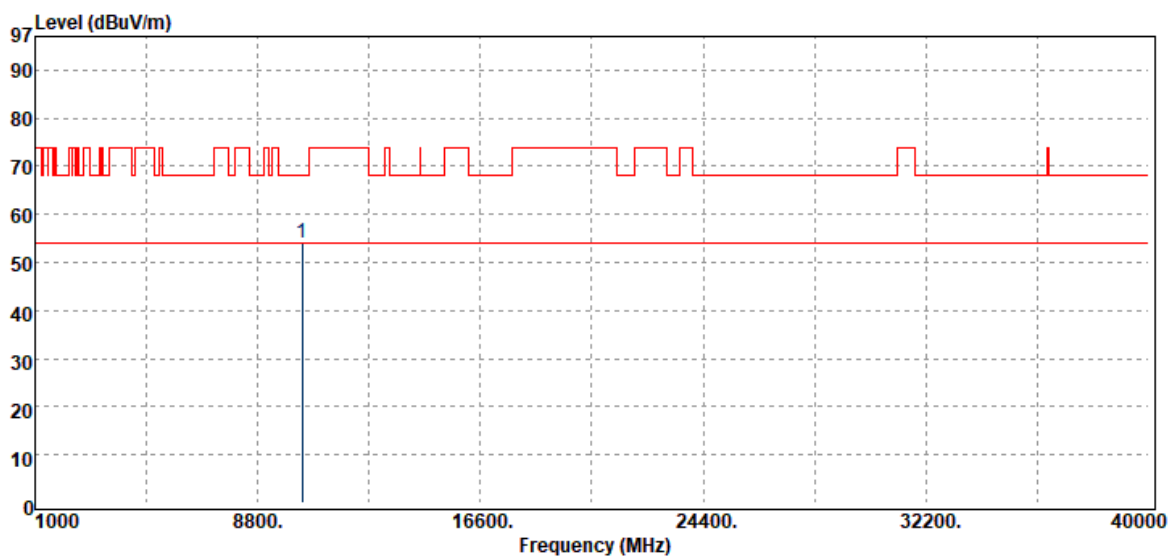
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	35.24	18.72	53.96	68.20	-14.24

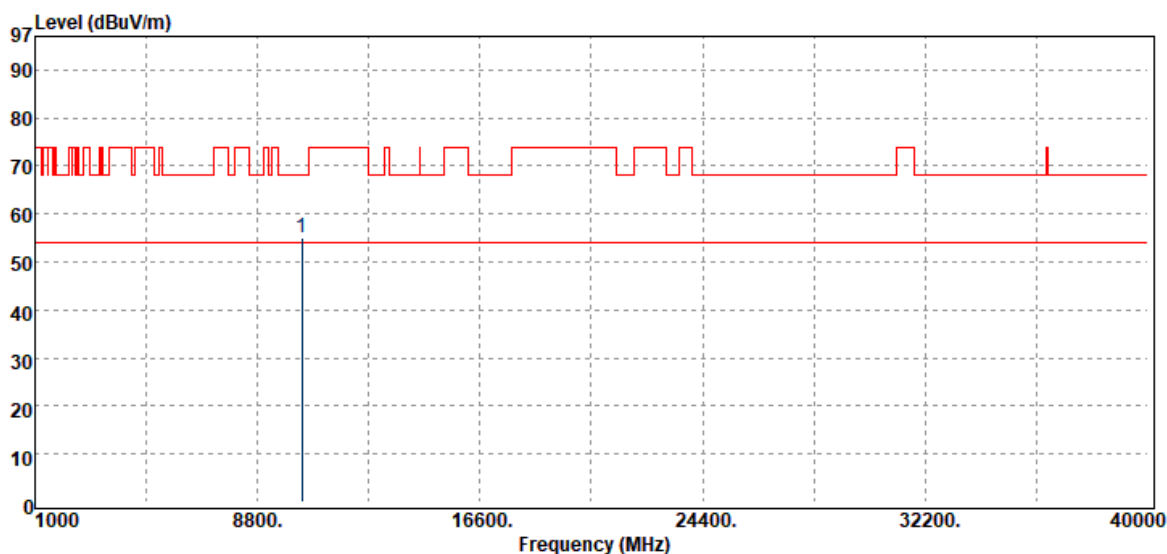
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Tx CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	36.44	18.72	55.16	68.20	-13.04

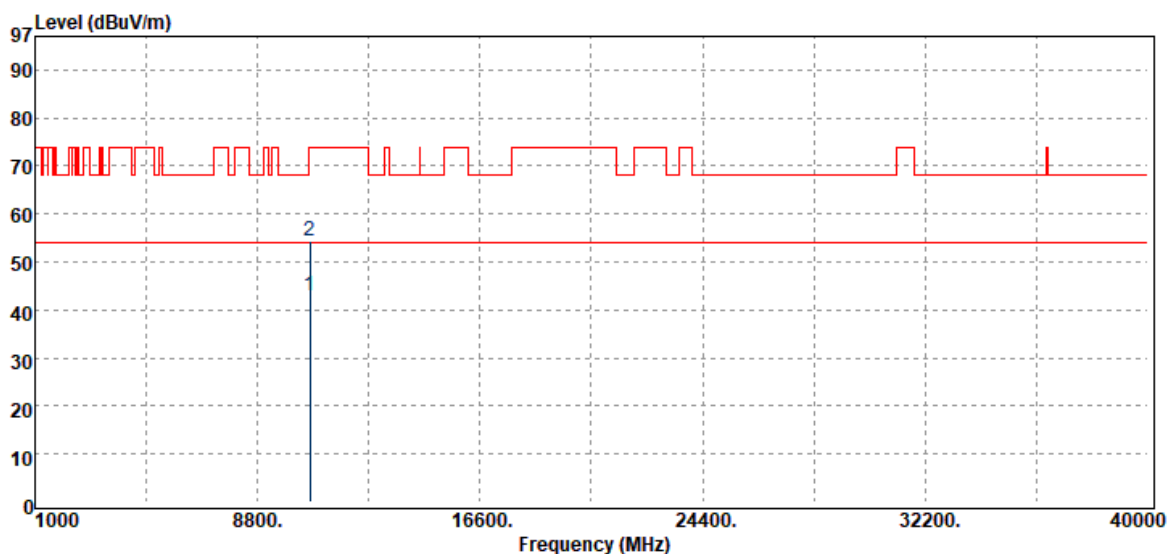
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.56	19.49	43.05	54.00	-10.95
10640.00	Peak	34.76	19.49	54.25	74.00	-19.75

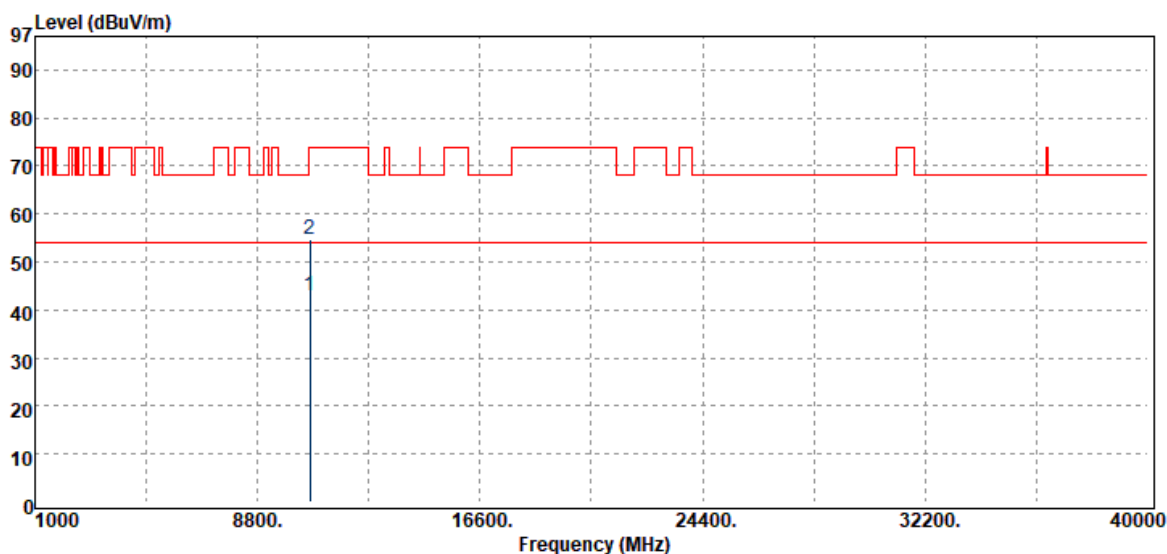
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	23.57	19.49	43.06	54.00	-10.94
10640.00	Peak	35.20	19.49	54.69	74.00	-19.31

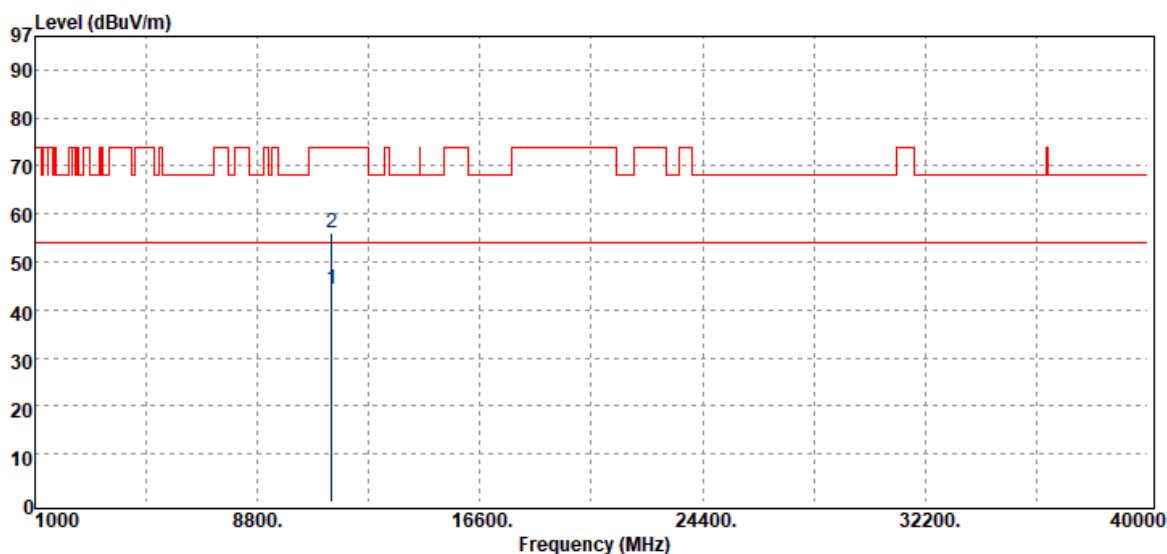
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.09	21.10	44.19	54.00	-9.81
11400.00	Peak	35.11	21.10	56.21	74.00	-17.79

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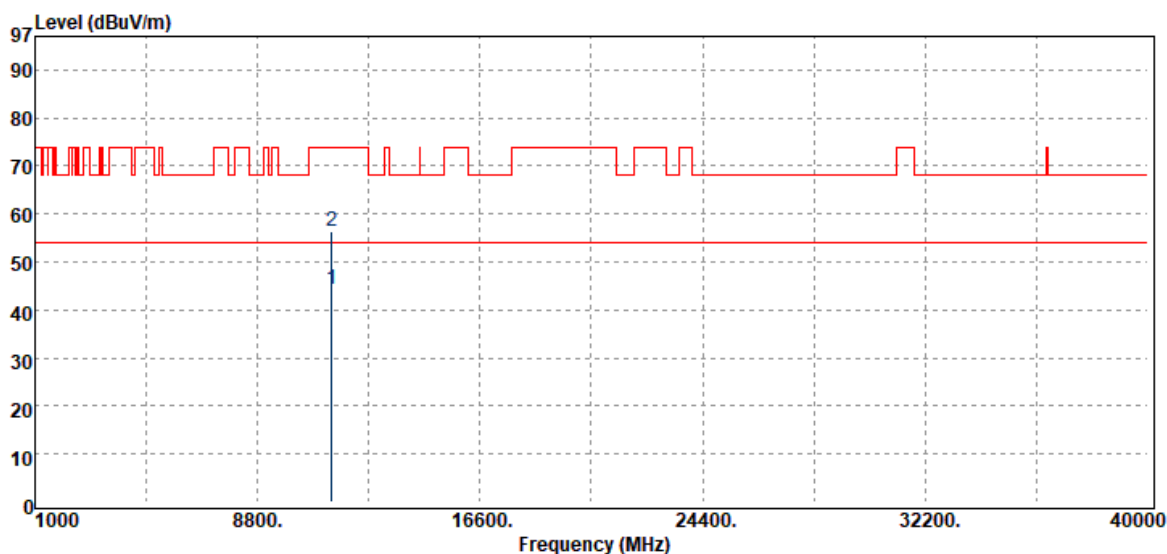
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Tx CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	23.10	21.10	44.20	54.00	-9.80
11400.00	Peak	35.16	21.10	56.26	74.00	-17.74

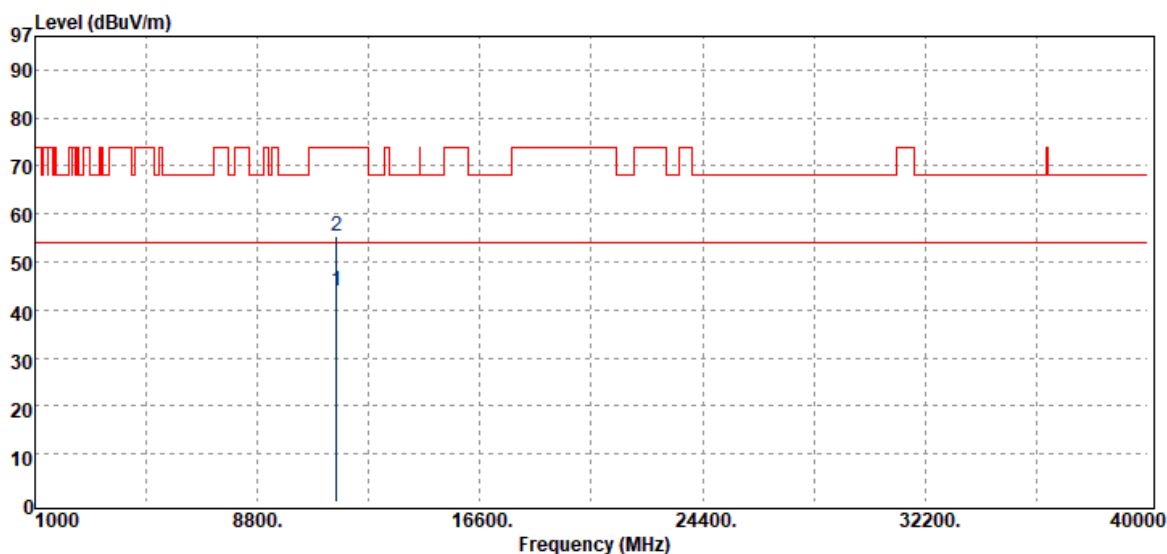
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.16	20.93	44.09	54.00	-9.91
11570.00	Peak	34.31	20.93	55.24	74.00	-18.76

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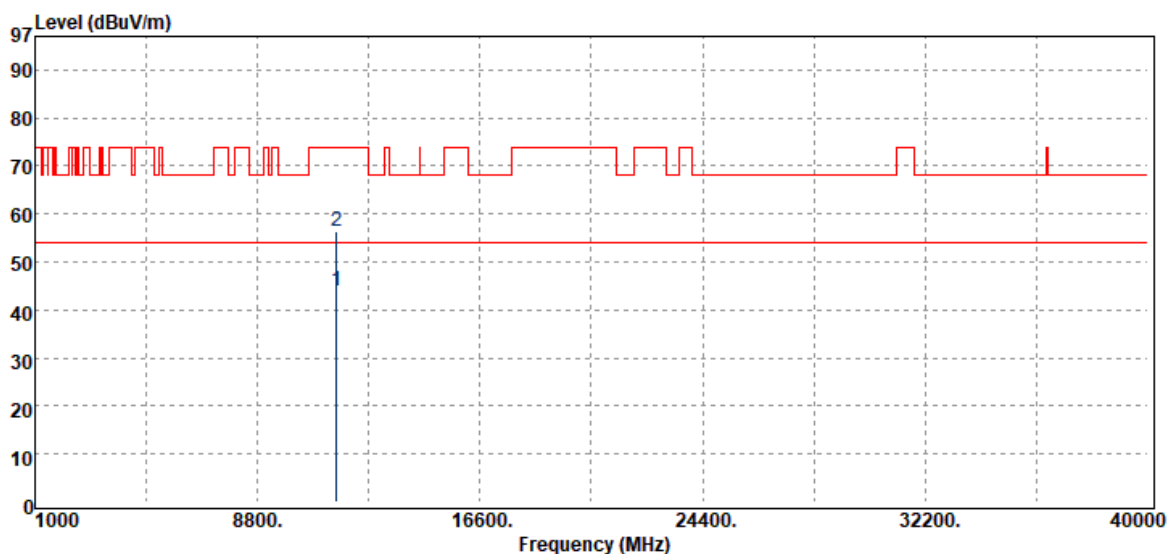
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Report Number :ER/2019/C0154
Operation Mode :802.11ax HE20B4
Test Channel :5785 MHz
Test Mode :Tx CH Mid RU full
EUT Pol :E1 Plane

Test Date :2020-01-17
Temp./Humi. :22.8/52
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	23.18	20.93	44.11	54.00	-9.89
11570.00	Peak	35.30	20.93	56.23	74.00	-17.77

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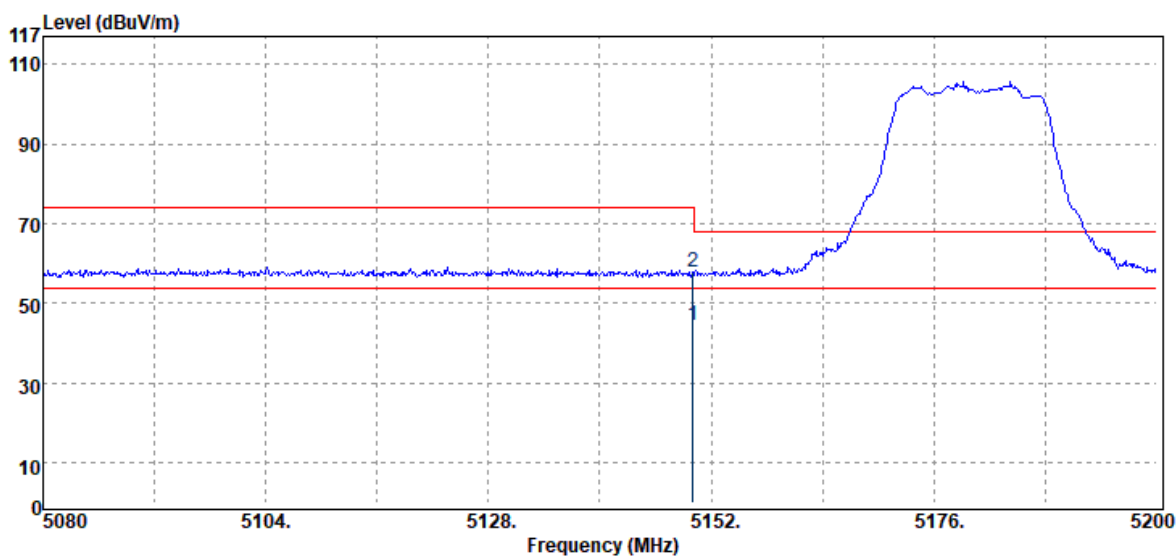
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Band Edge falling to restricted band (Worst Case)

Report Number :ER/2019/C0078
Operation Mode :802.11aB1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	37.56	7.10	44.66	54.00	-9.34
5150.00	Peak	50.73	7.10	57.83	74.00	-16.17

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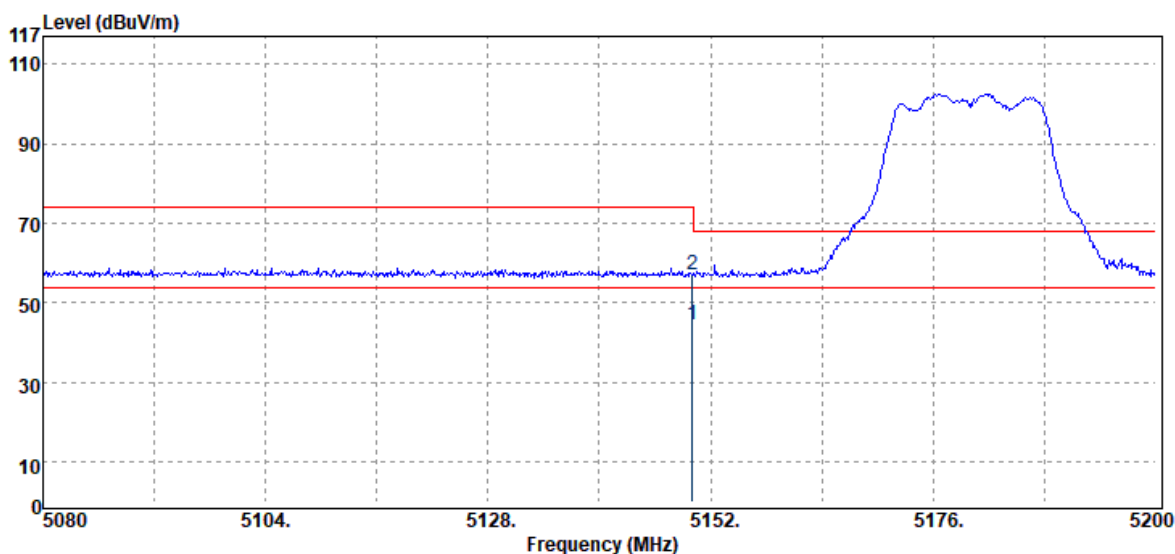
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Report Number :ER/2019/C0078
Operation Mode :802.11aB1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.46	7.10	44.56	54.00	-9.44
5150.00	Peak	49.94	7.10	57.04	74.00	-16.96

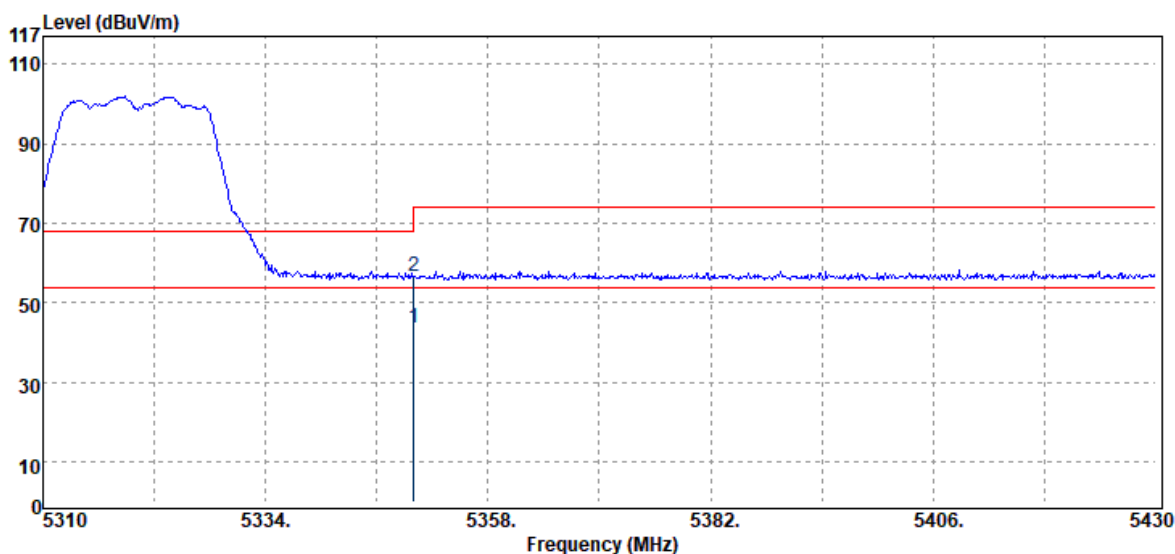
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Report Number :ER/2019/C0078
Operation Mode :802.11aB2
Test Channel :5320 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.56	6.21	43.77	54.00	-10.23
5350.00	Peak	50.55	6.21	56.76	74.00	-17.24

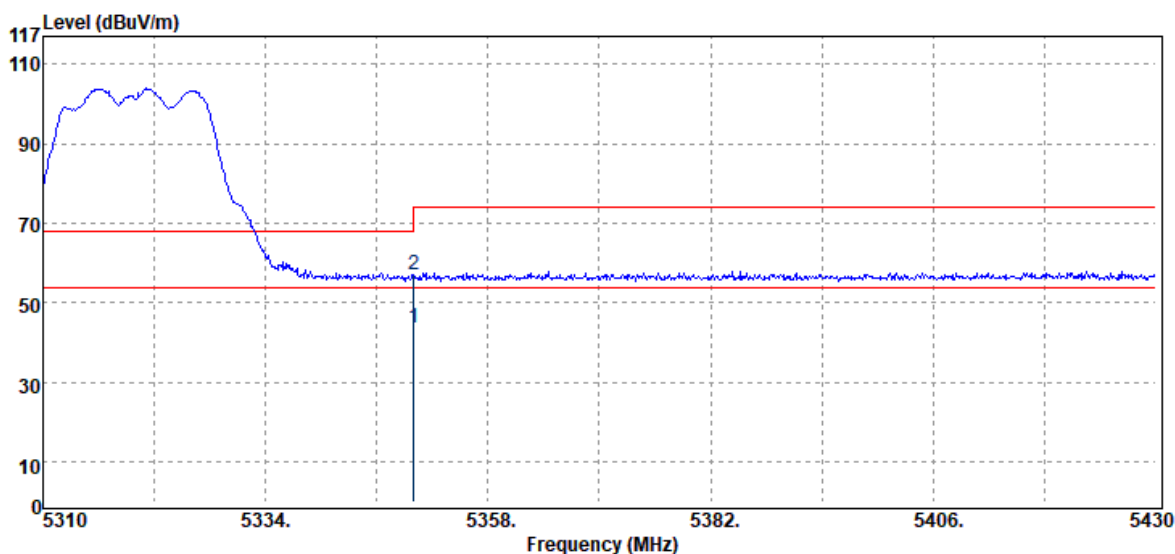
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Report Number :ER/2019/C0078
Operation Mode :802.11aB2
Test Channel :5320 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.42	6.21	43.63	54.00	-10.37
5350.00	Peak	50.85	6.21	57.06	74.00	-16.94

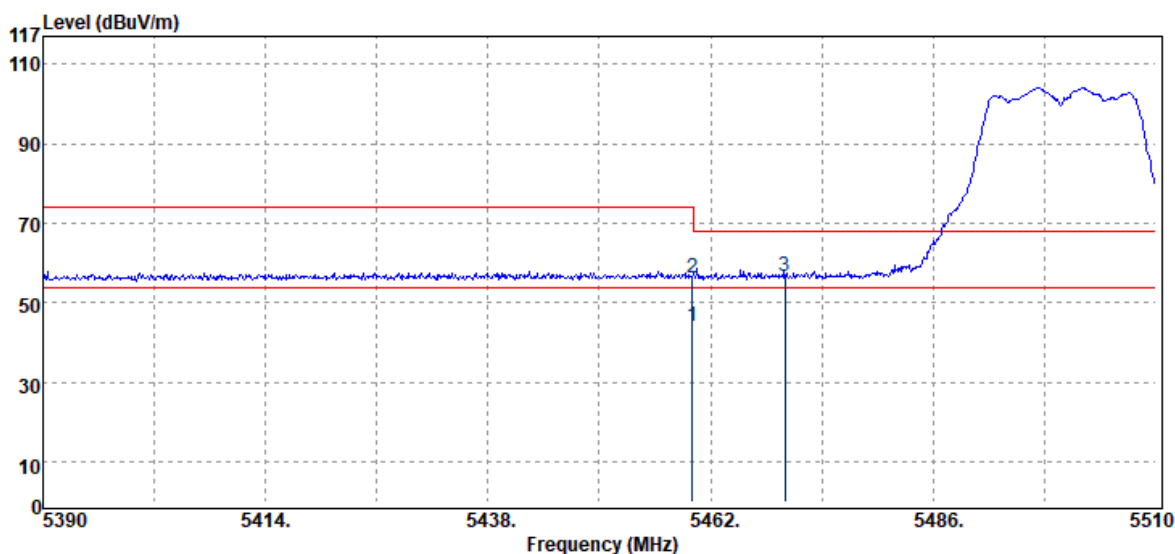
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Report Number :ER/2019/C0078
Operation Mode :802.11aB3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.52	6.69	44.21	54.00	-9.79
5460.00	Peak	49.71	6.69	56.40	74.00	-17.60
5470.00	Peak	49.88	6.77	56.65	68.20	-11.55

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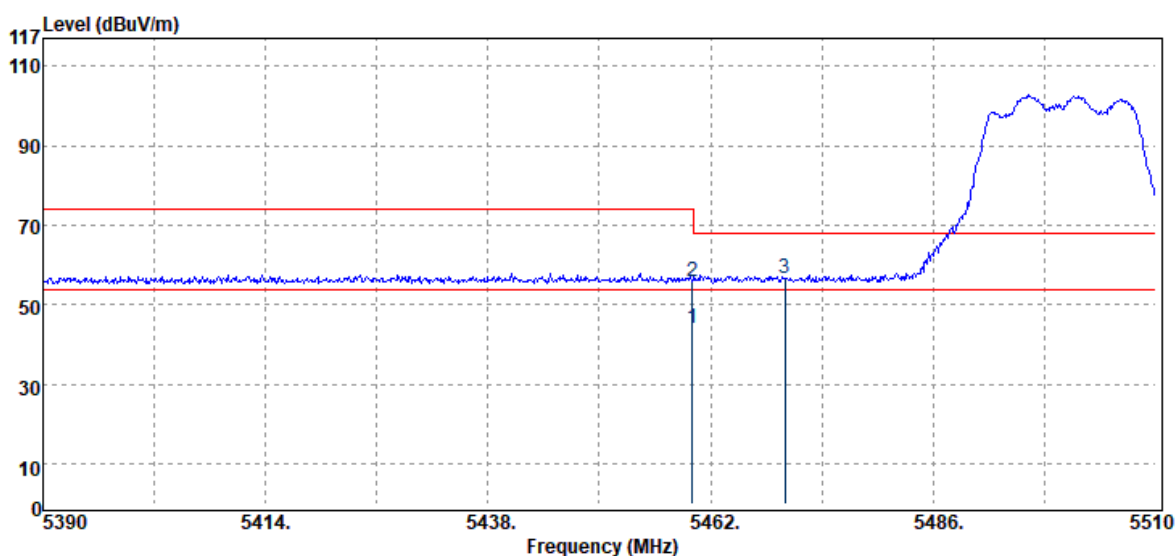
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Report Number :ER/2019/C0078
Operation Mode :802.11aB3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



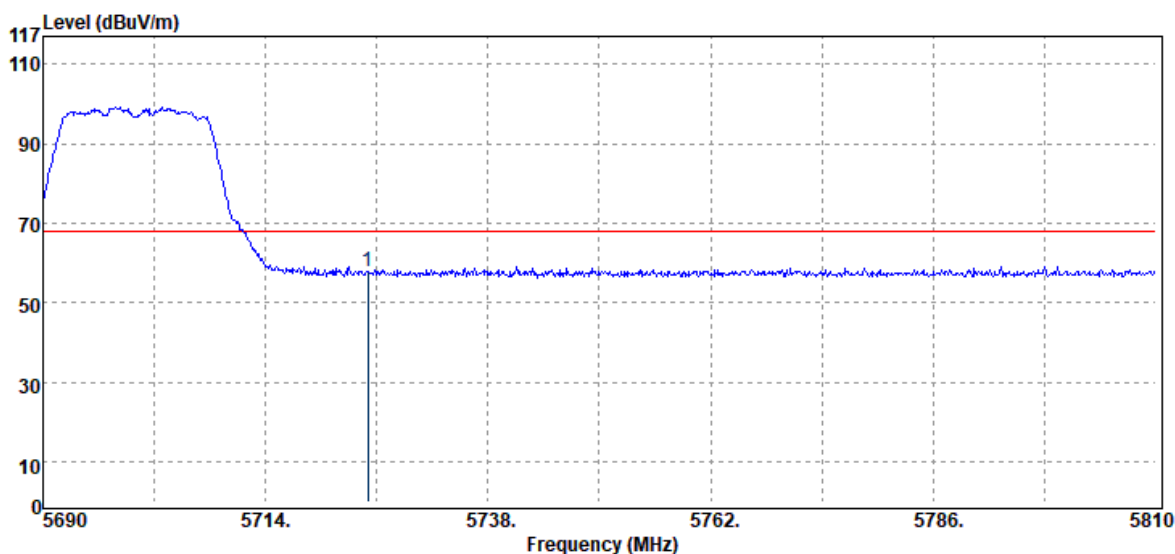
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.25	6.69	43.94	54.00	-10.06
5460.00	Peak	49.17	6.69	55.86	74.00	-18.14
5470.00	Peak	49.95	6.77	56.72	68.20	-11.48

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Report Number :ER/2019/C0078
Operation Mode :802.11aB3
Test Channel :5700 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.23	7.53	57.76	68.20	-10.44

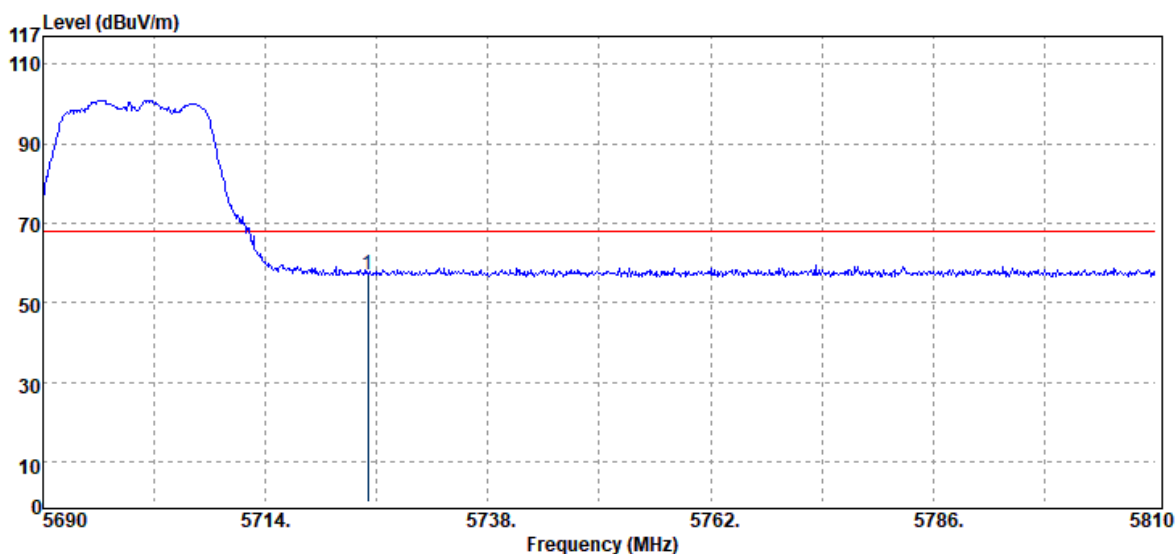
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Report Number :ER/2019/C0078
Operation Mode :802.11aB3
Test Channel :5700 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	49.66	7.53	57.19	68.20	-11.01

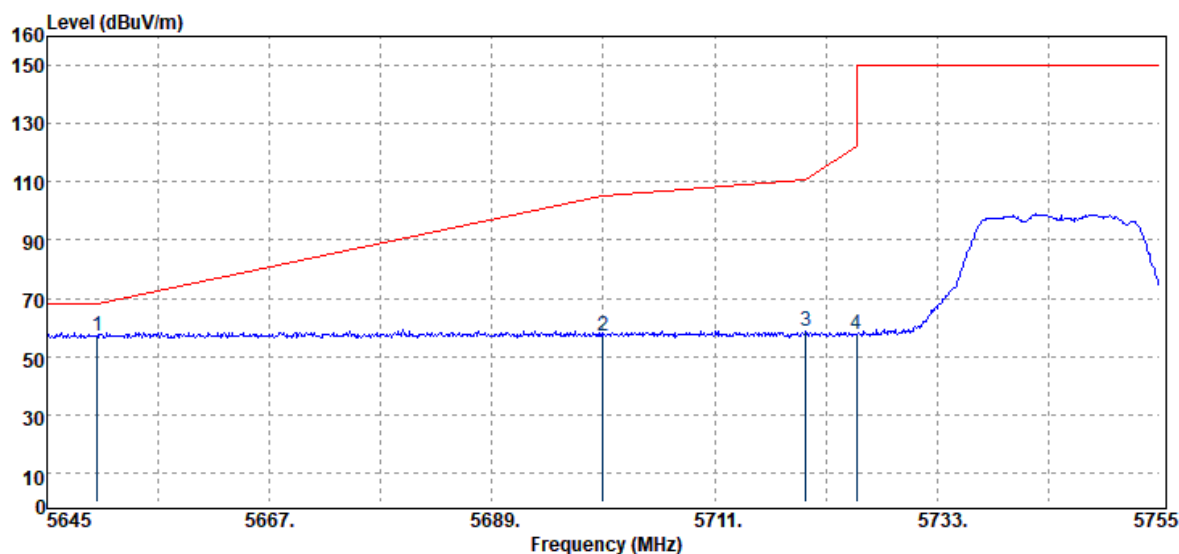
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Report Number :ER/2019/C0078
Operation Mode :802.11aB4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.22	7.02	57.24	68.20	-10.96
5700.00	Peak	49.60	7.54	57.14	105.20	-48.06
5720.00	Peak	50.98	7.53	58.51	110.80	-52.29
5725.00	Peak	49.98	7.53	57.51	122.20	-64.69

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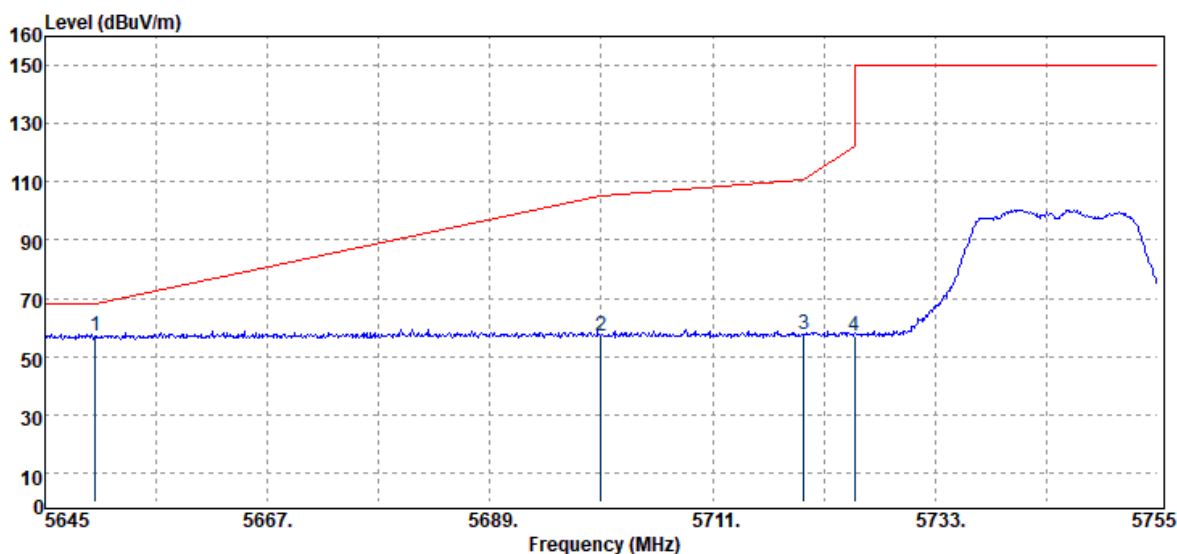
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Report Number :ER/2019/C0078
Operation Mode :802.11aB4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.81	7.02	56.83	68.20	-11.37
5700.00	Peak	49.34	7.54	56.88	105.20	-48.32
5720.00	Peak	49.97	7.53	57.50	110.80	-53.30
5725.00	Peak	49.72	7.53	57.25	122.20	-64.95

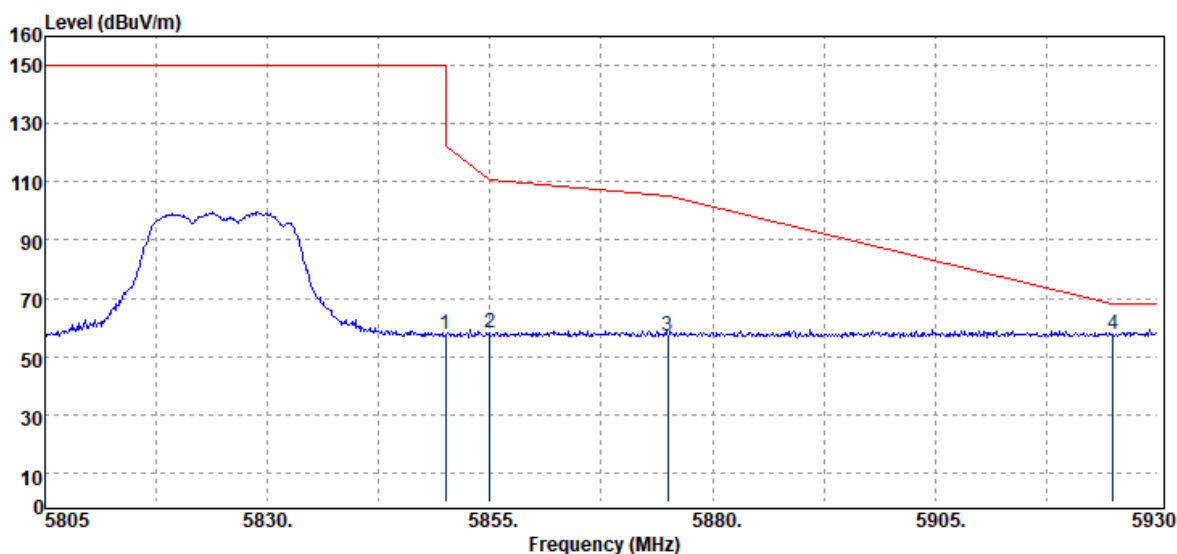
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Report Number :ER/2019/C0078
Operation Mode :802.11aB4
Test Channel :5825 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.08	7.76	57.84	122.20	-64.36
5855.00	Peak	50.37	7.77	58.14	110.80	-52.66
5875.00	Peak	49.45	7.83	57.28	105.20	-47.92
5925.00	Peak	49.41	7.97	57.38	68.20	-10.82

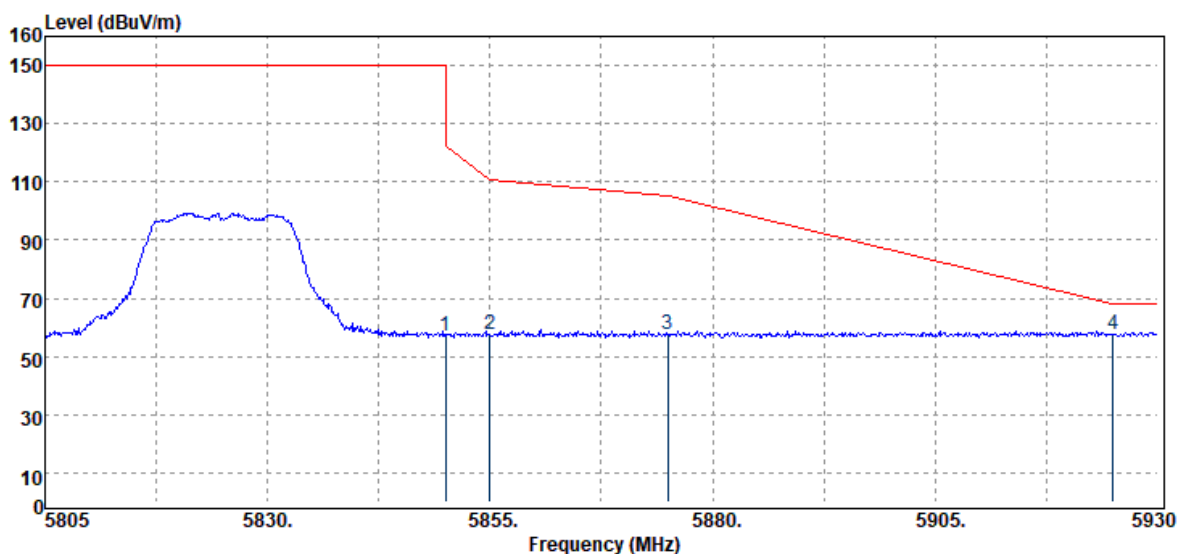
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Report Number :ER/2019/C0078
Operation Mode :802.11aB4
Test Channel :5825 MHz
Test Mode :Bandedge CH High
EUT Pol :E1 Plane

Test Date :2020-01-10
Temp./Humi. :22.5/64
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.38	7.76	57.14	122.20	-65.06
5855.00	Peak	49.81	7.77	57.58	110.80	-53.22
5875.00	Peak	49.54	7.83	57.37	105.20	-47.83
5925.00	Peak	49.40	7.97	57.37	68.20	-10.83

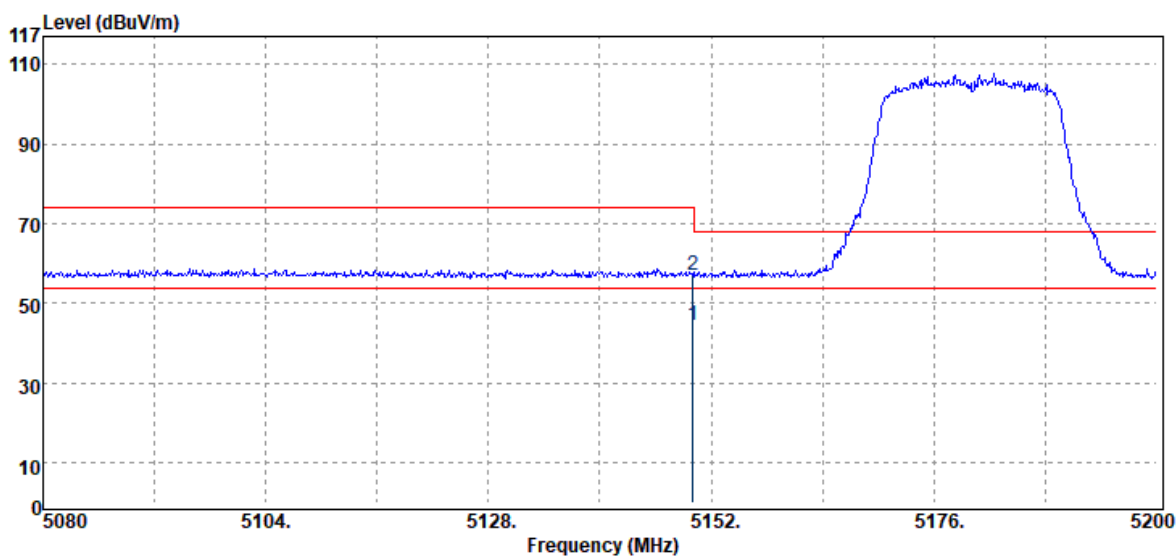
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.42	7.10	44.52	54.00	-9.48
5150.00	Peak	49.99	7.10	57.09	74.00	-16.91

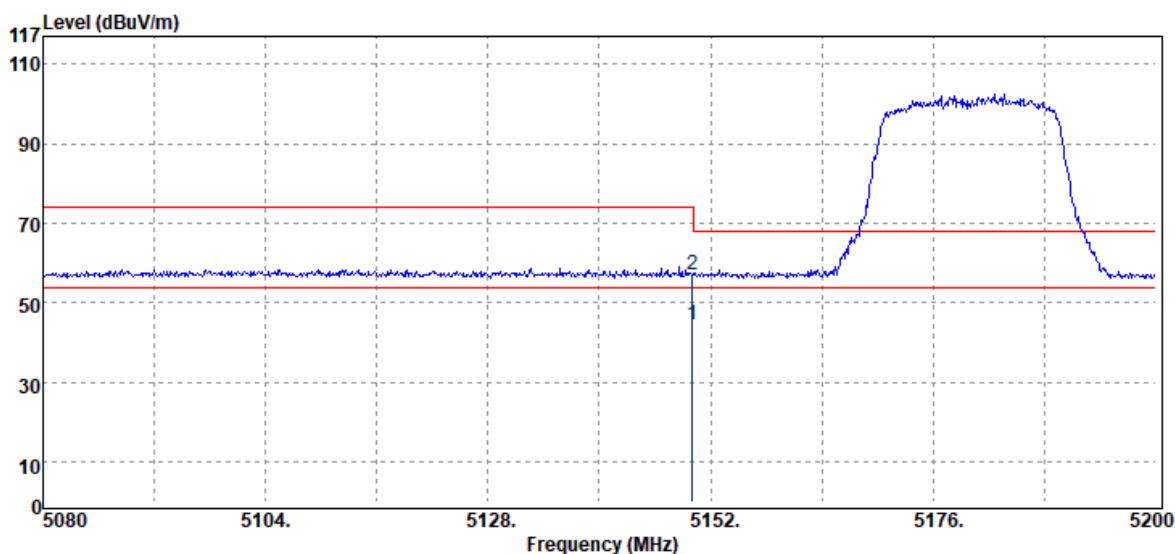
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.27	7.10	44.37	54.00	-9.63
5150.00	Peak	50.08	7.10	57.18	74.00	-16.82

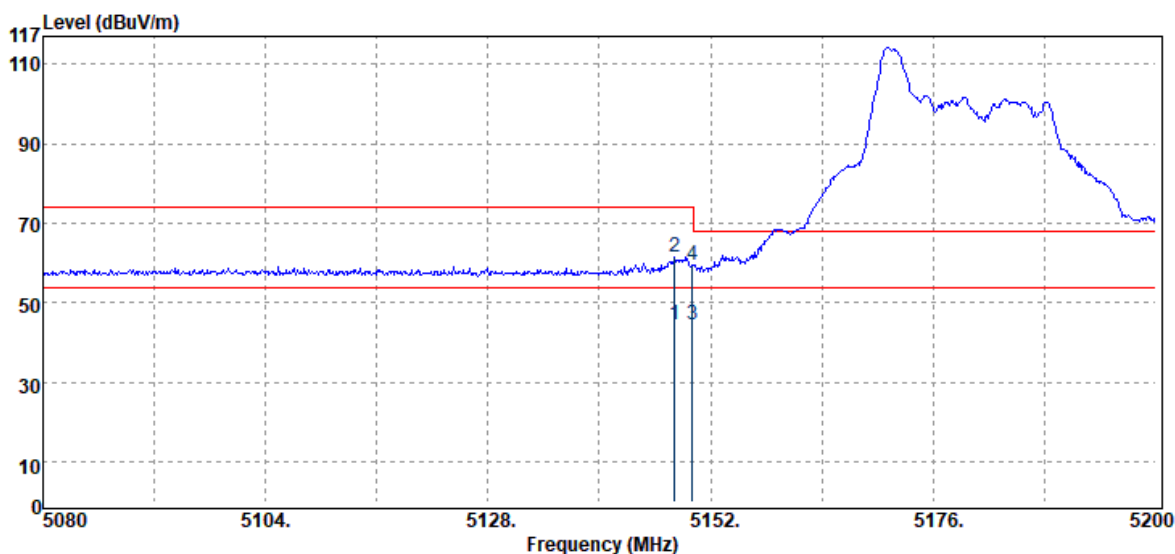
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 26/0
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.16	Average	37.60	7.12	44.72	54.00	-9.28
5148.16	Peak	54.32	7.12	61.44	74.00	-12.56
5150.00	Average	37.44	7.10	44.54	54.00	-9.46
5150.00	Peak	52.34	7.10	59.44	74.00	-14.56

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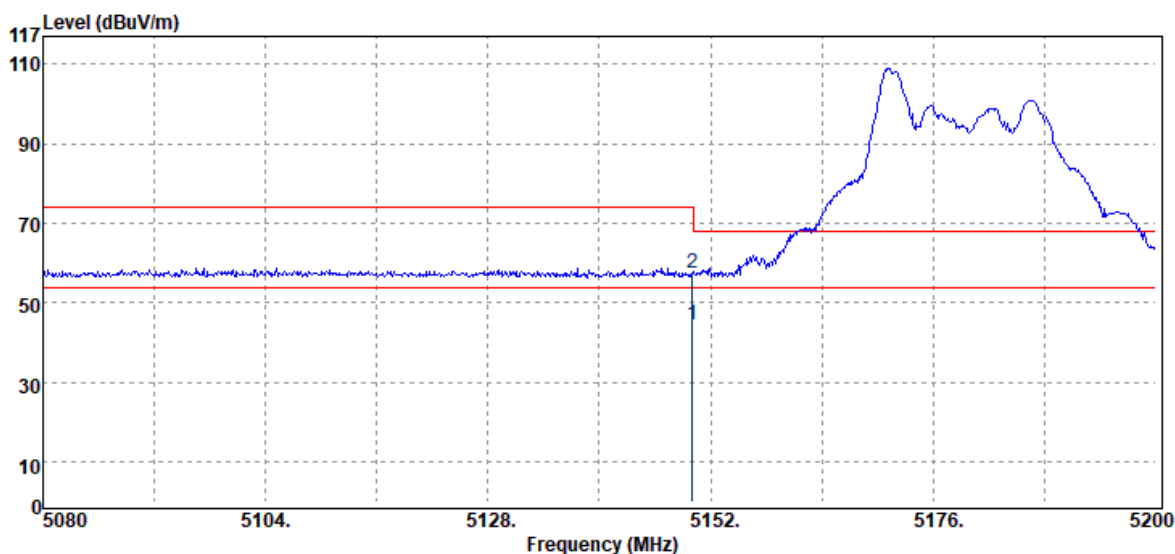
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 26/0
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.38	7.10	44.48	54.00	-9.52
5150.00	Peak	50.50	7.10	57.60	74.00	-16.40

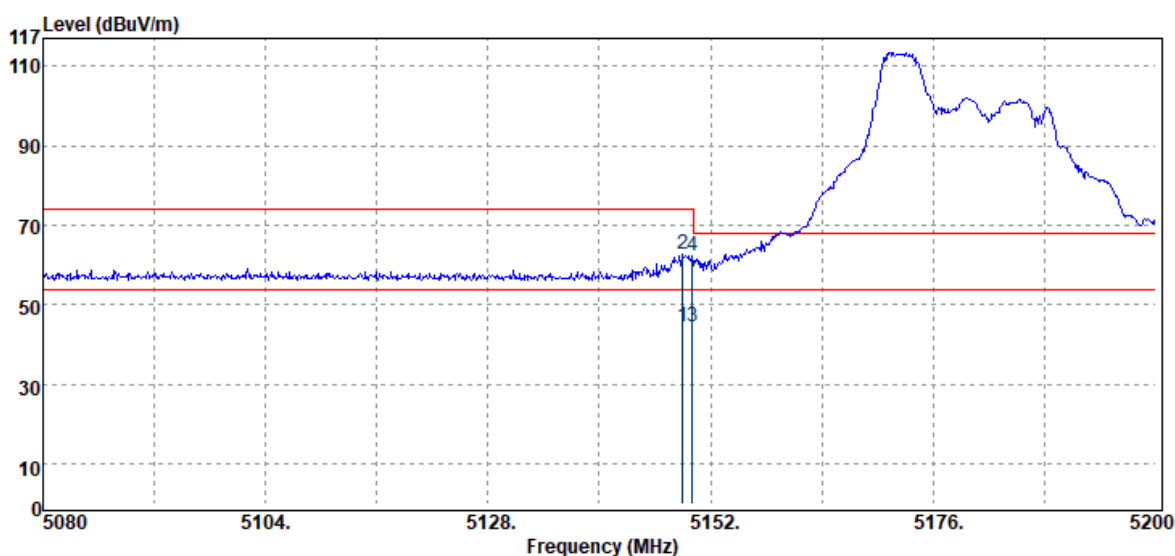
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



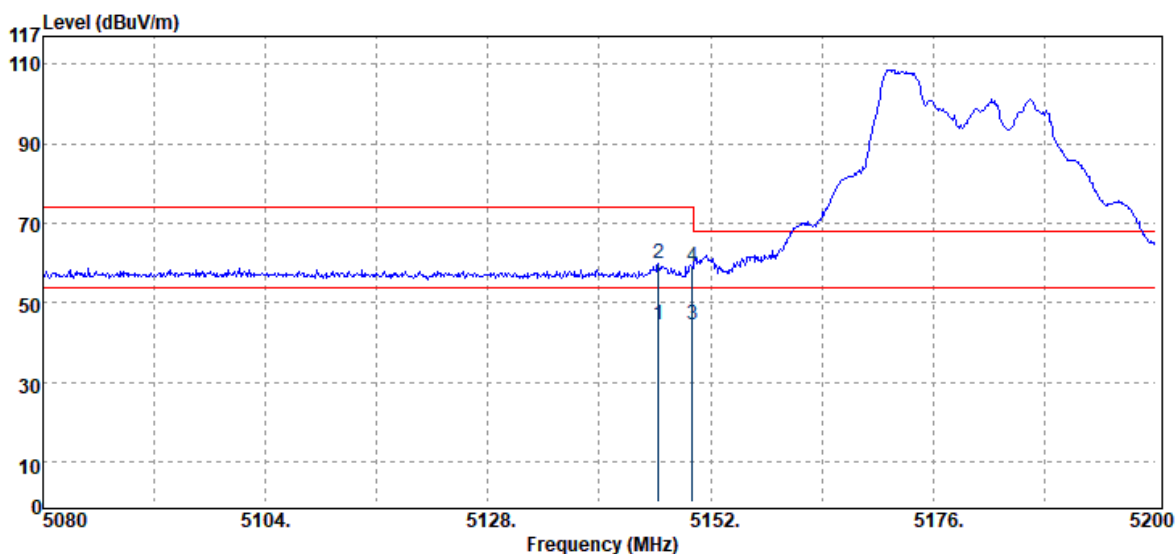
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.00	Average	37.56	7.12	44.68	54.00	-9.32
5149.00	Peak	55.71	7.12	62.83	74.00	-11.17
5150.00	Average	37.44	7.10	44.54	54.00	-9.46
5150.00	Peak	55.41	7.10	62.51	74.00	-11.49

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.36	Average	37.32	7.13	44.45	54.00	-9.55
5146.36	Peak	52.75	7.13	59.88	74.00	-14.12
5150.00	Average	37.33	7.10	44.43	54.00	-9.57
5150.00	Peak	52.04	7.10	59.14	74.00	-14.86

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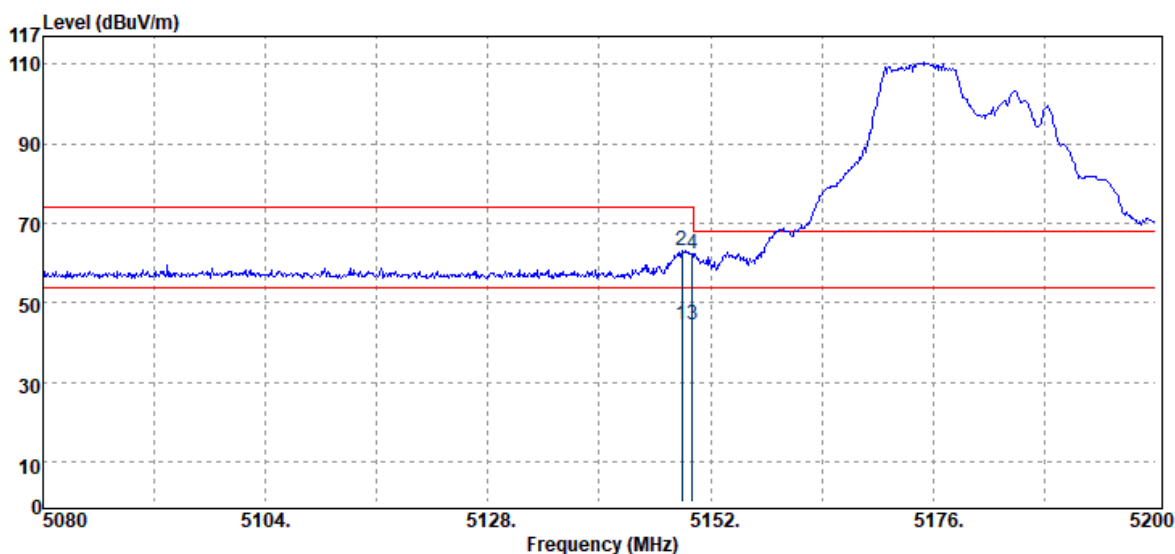
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.88	Average	37.51	7.12	44.63	54.00	-9.37
5148.88	Peak	55.92	7.12	63.04	74.00	-10.96
5150.00	Average	37.54	7.10	44.64	54.00	-9.36
5150.00	Peak	55.21	7.10	62.31	74.00	-11.69

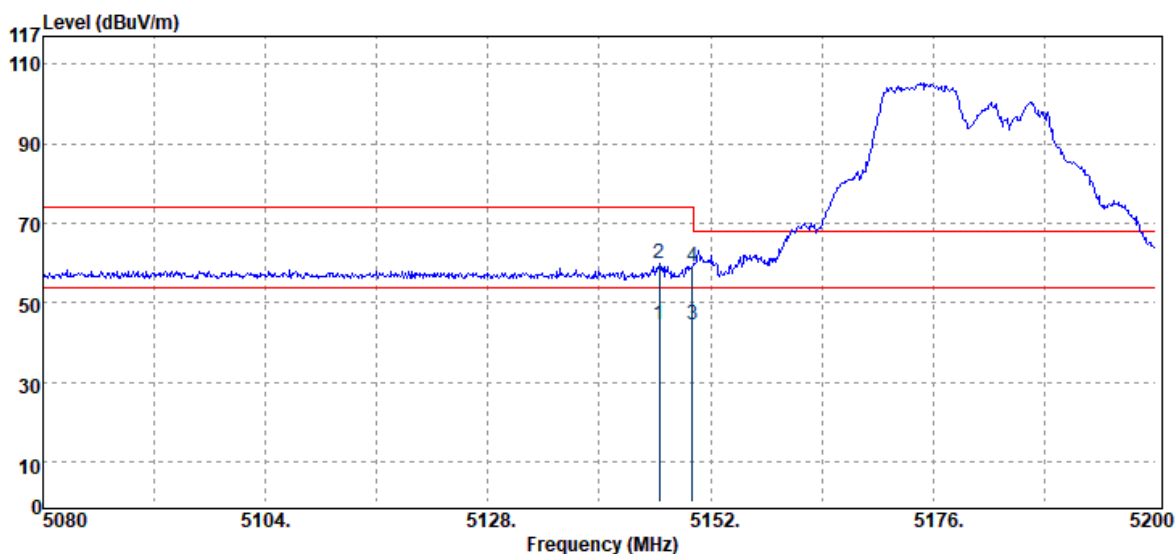
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B1
Test Channel :5180 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.48	Average	37.25	7.13	44.38	54.00	-9.62
5146.48	Peak	52.95	7.13	60.08	74.00	-13.92
5150.00	Average	37.30	7.10	44.40	54.00	-9.60
5150.00	Peak	51.92	7.10	59.02	74.00	-14.98

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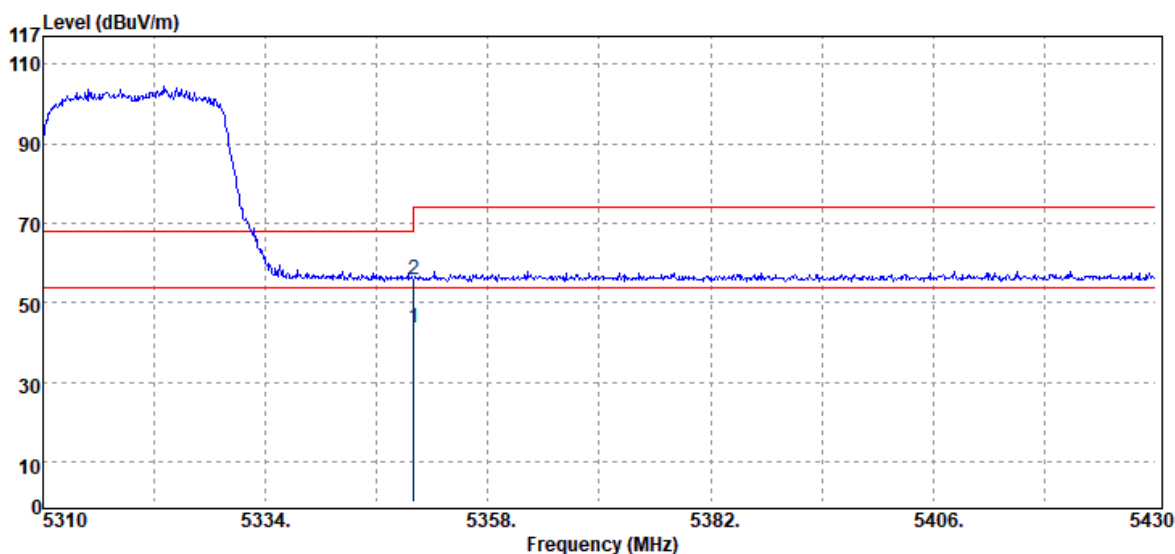
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.31	6.21	43.52	54.00	-10.48
5350.00	Peak	49.80	6.21	56.01	74.00	-17.99

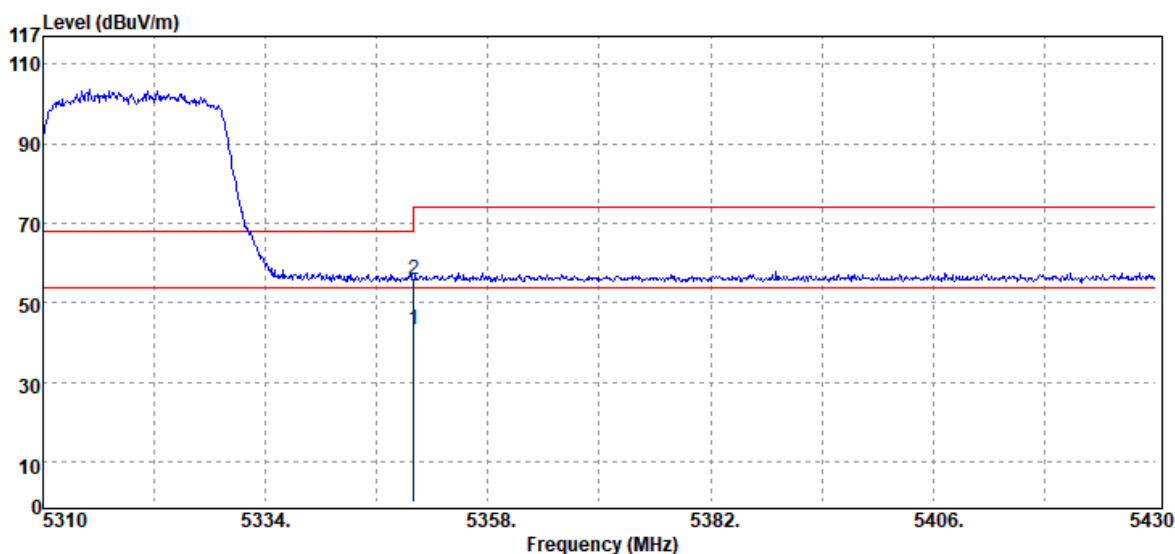
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.27	6.21	43.48	54.00	-10.52
5350.00	Peak	49.60	6.21	55.81	74.00	-18.19

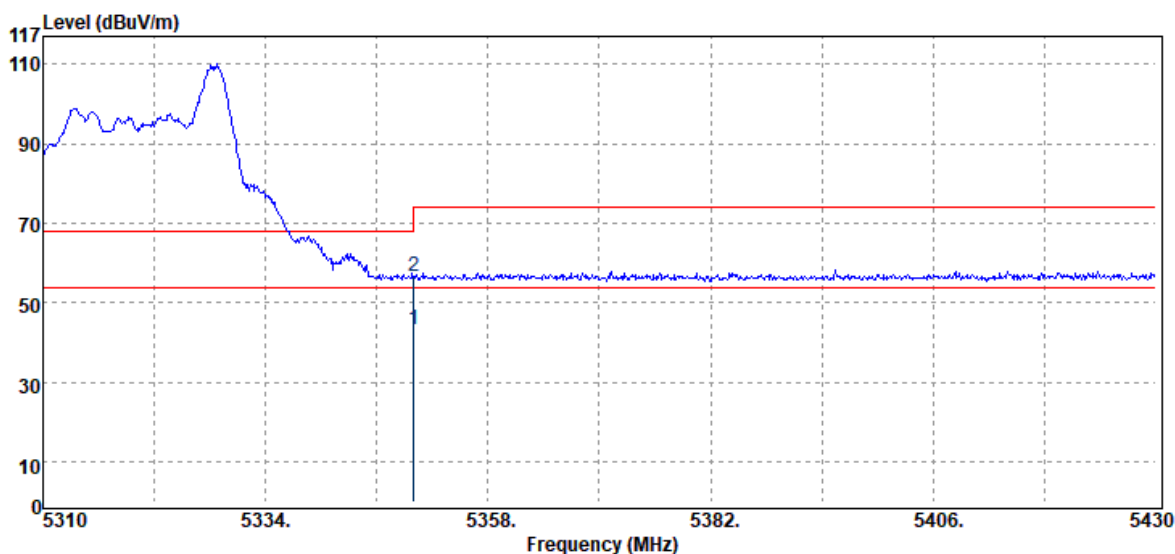
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.29	6.21	43.50	54.00	-10.50
5350.00	Peak	50.35	6.21	56.56	74.00	-17.44

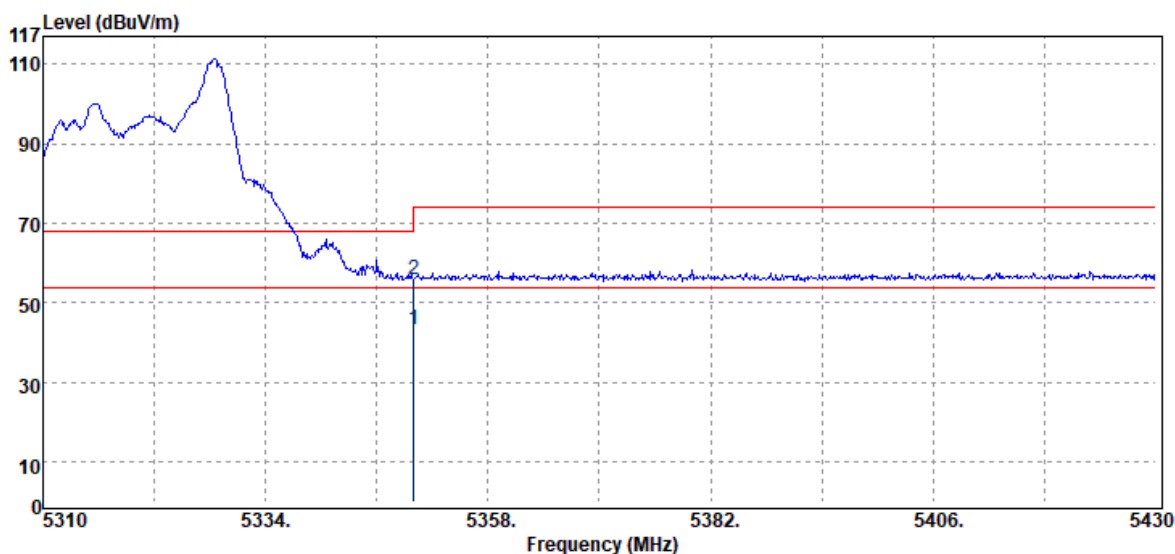
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.26	6.21	43.47	54.00	-10.53
5350.00	Peak	49.84	6.21	56.05	74.00	-17.95

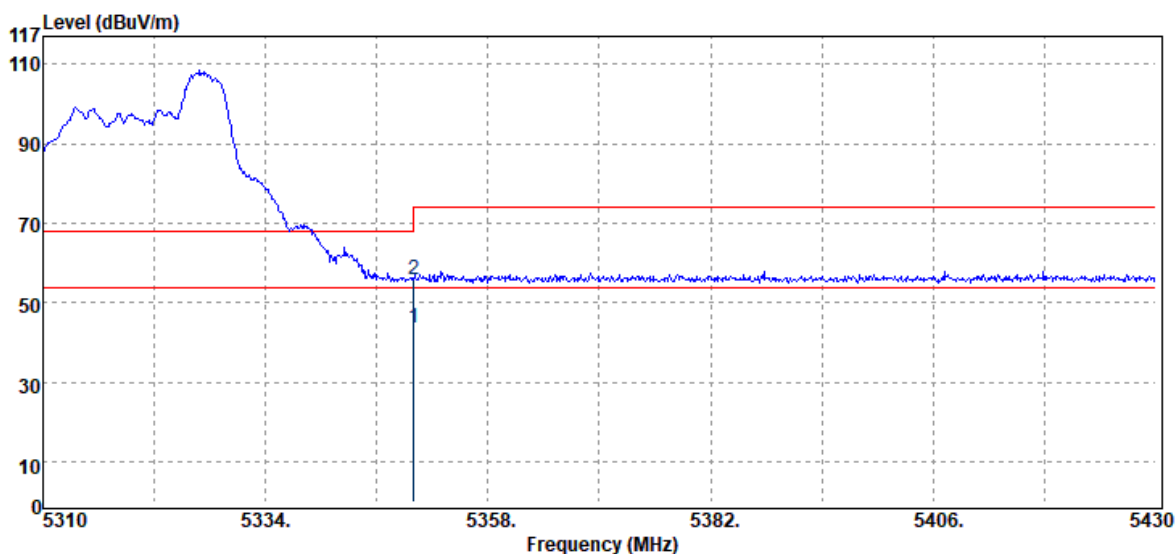
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.32	6.21	43.53	54.00	-10.47
5350.00	Peak	49.51	6.21	55.72	74.00	-18.28

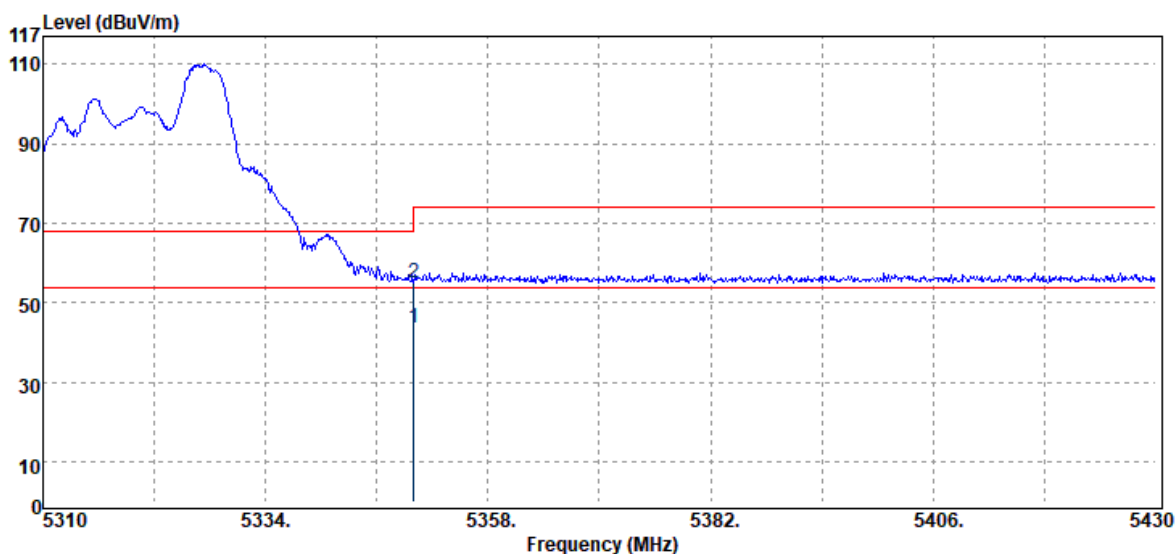
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.37	6.21	43.58	54.00	-10.42
5350.00	Peak	48.79	6.21	55.00	74.00	-19.00

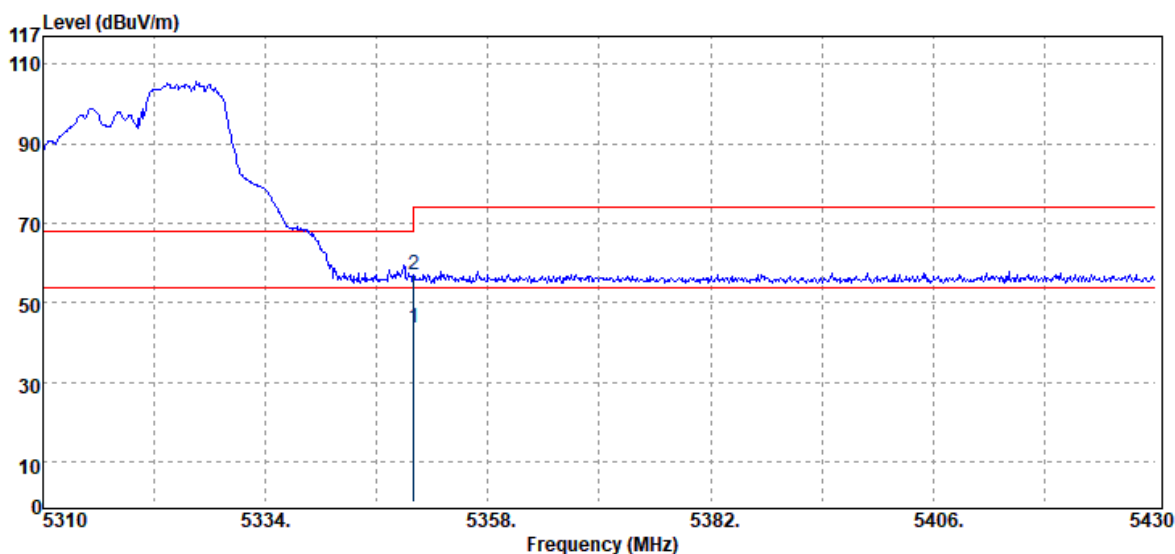
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 106/54
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.37	6.21	43.58	54.00	-10.42
5350.00	Peak	50.83	6.21	57.04	74.00	-16.96

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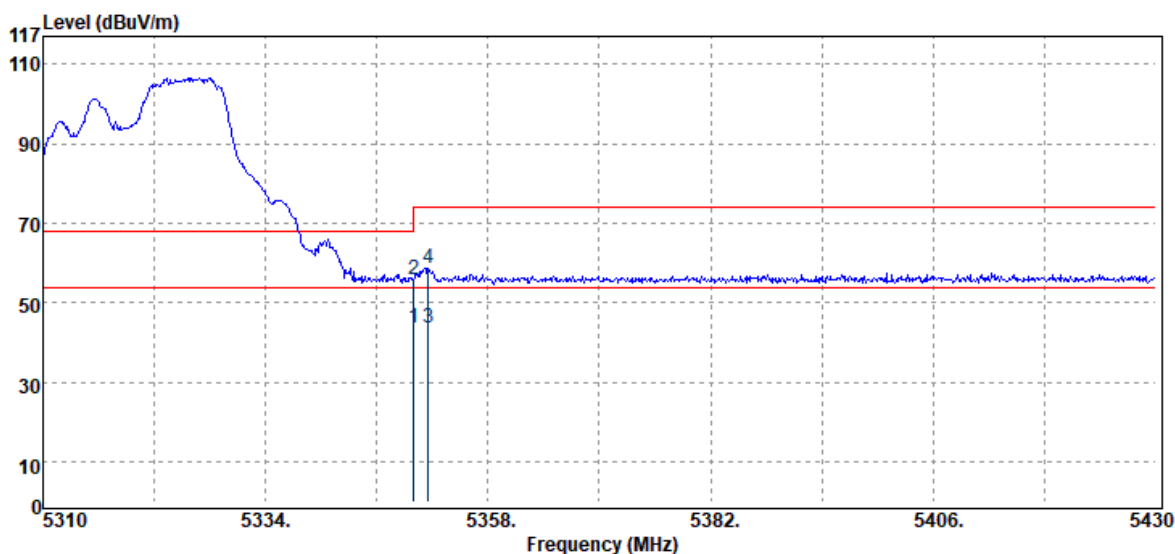
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B2
Test Channel :5320 MHz
Test Mode :Bandedge CH High RU 106/54
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.53	6.21	43.74	54.00	-10.26
5350.00	Peak	49.59	6.21	55.80	74.00	-18.20
5351.52	Average	37.33	6.22	43.55	54.00	-10.45
5351.52	Peak	52.54	6.22	58.76	74.00	-15.24

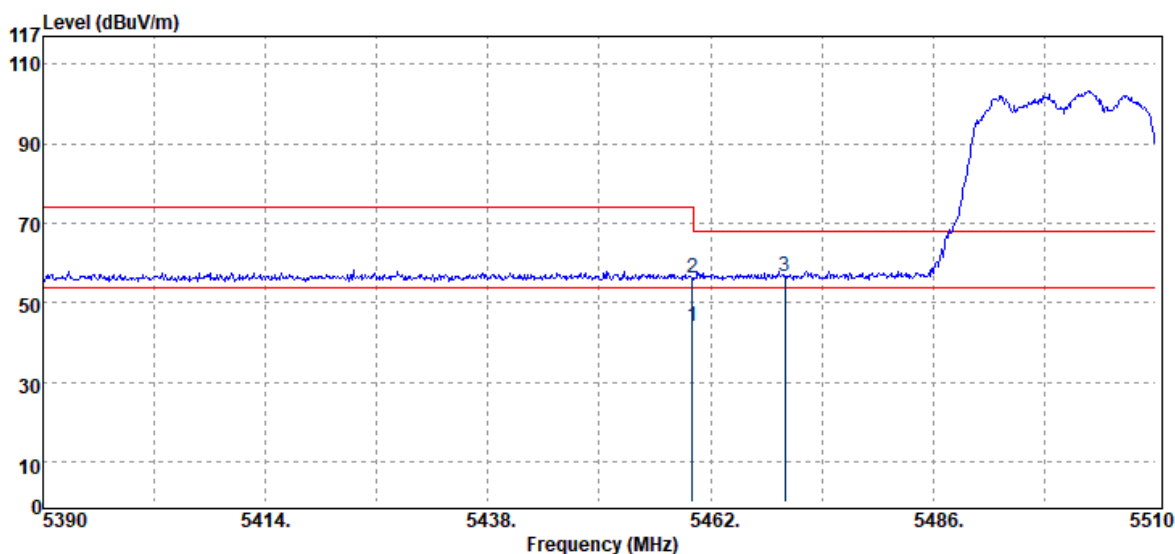
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.40	6.69	44.09	54.00	-9.91
5460.00	Peak	49.78	6.69	56.47	74.00	-17.53
5470.00	Peak	49.74	6.77	56.51	68.20	-11.69

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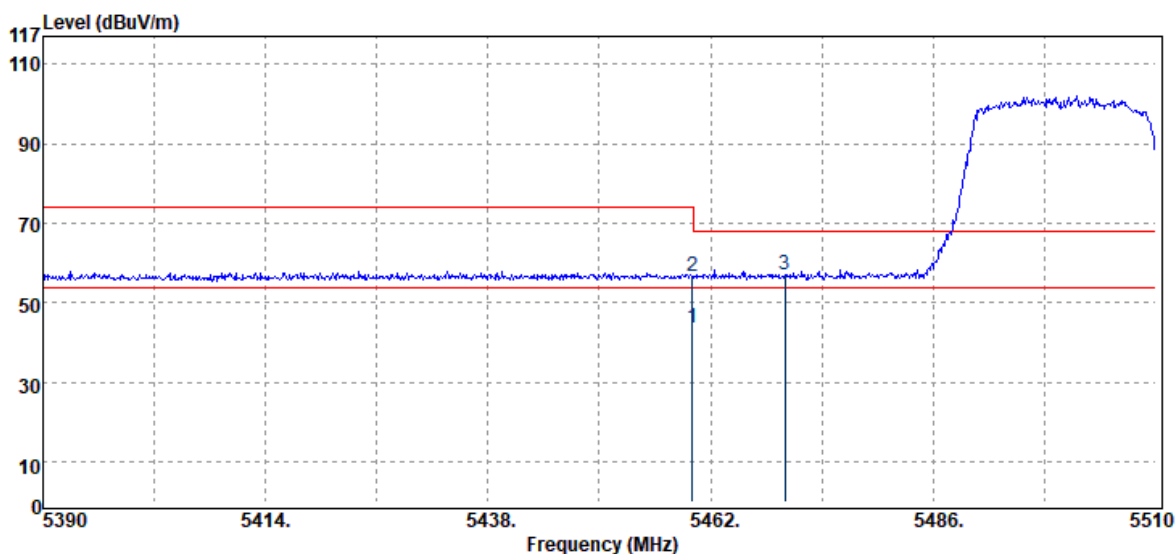
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.17	6.69	43.86	54.00	-10.14
5460.00	Peak	49.93	6.69	56.62	74.00	-17.38
5470.00	Peak	50.51	6.77	57.28	68.20	-10.92

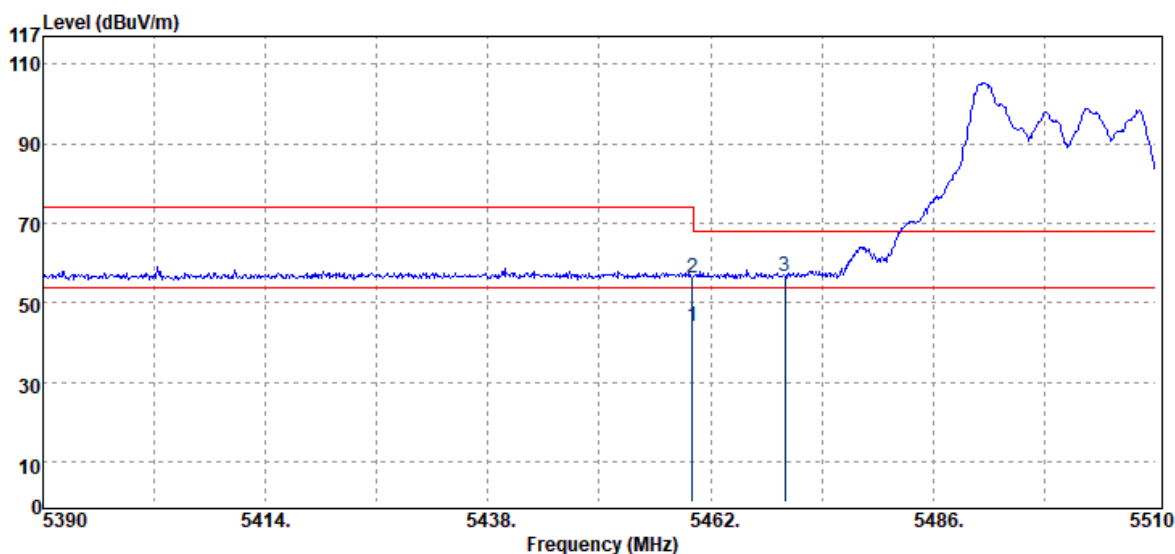
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 26/0
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.34	6.69	44.03	54.00	-9.97
5460.00	Peak	49.72	6.69	56.41	74.00	-17.59
5470.00	Peak	50.02	6.77	56.79	68.20	-11.41

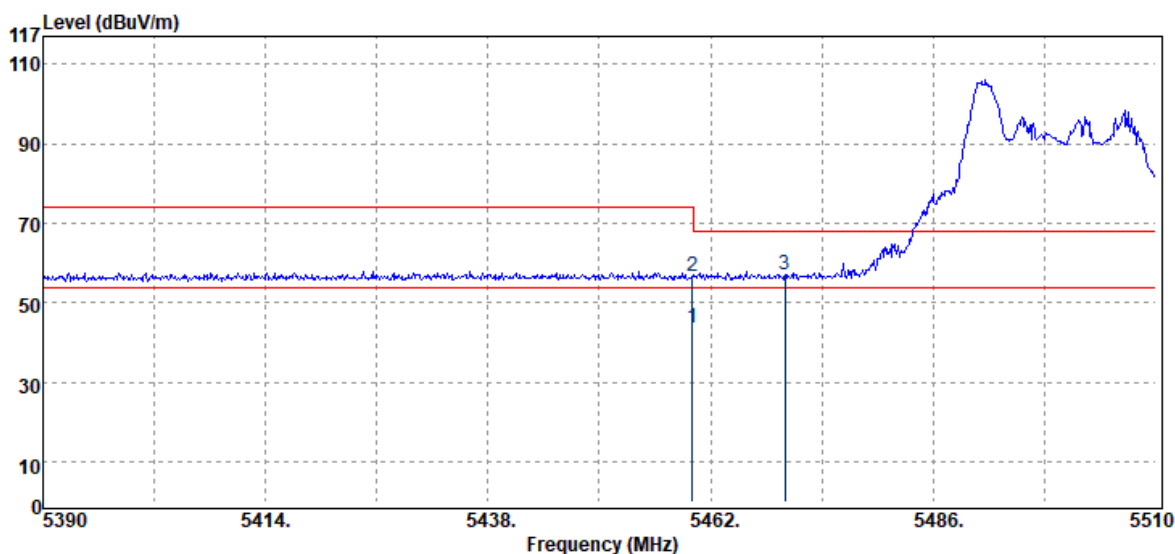
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 26/0
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.06	6.69	43.75	54.00	-10.25
5460.00	Peak	50.11	6.69	56.80	74.00	-17.20
5470.00	Peak	50.11	6.77	56.88	68.20	-11.32

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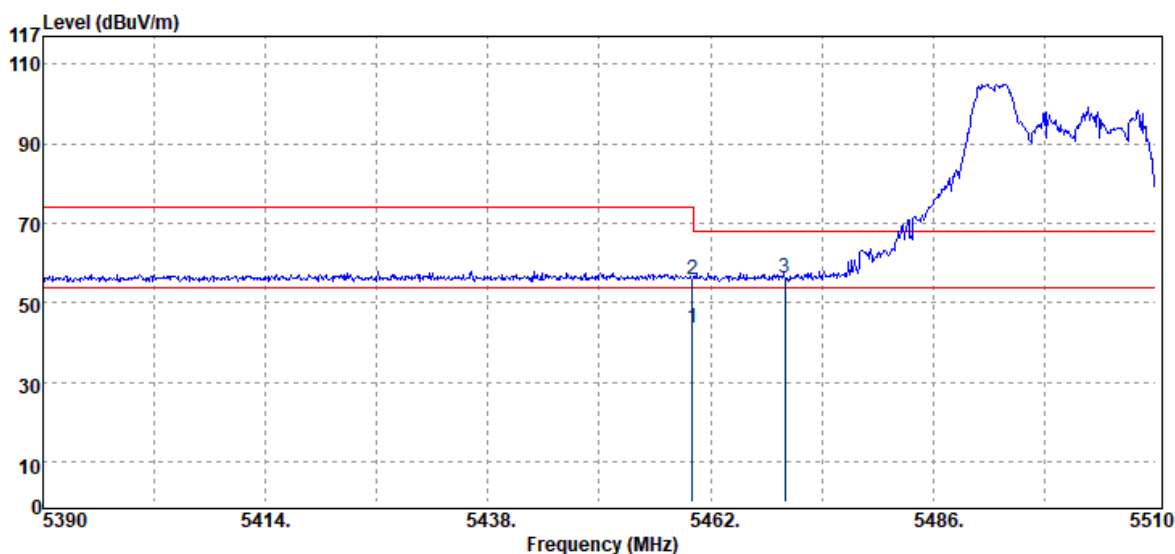
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.20	6.69	43.89	54.00	-10.11
5460.00	Peak	49.09	6.69	55.78	74.00	-18.22
5470.00	Peak	49.68	6.77	56.45	68.20	-11.75

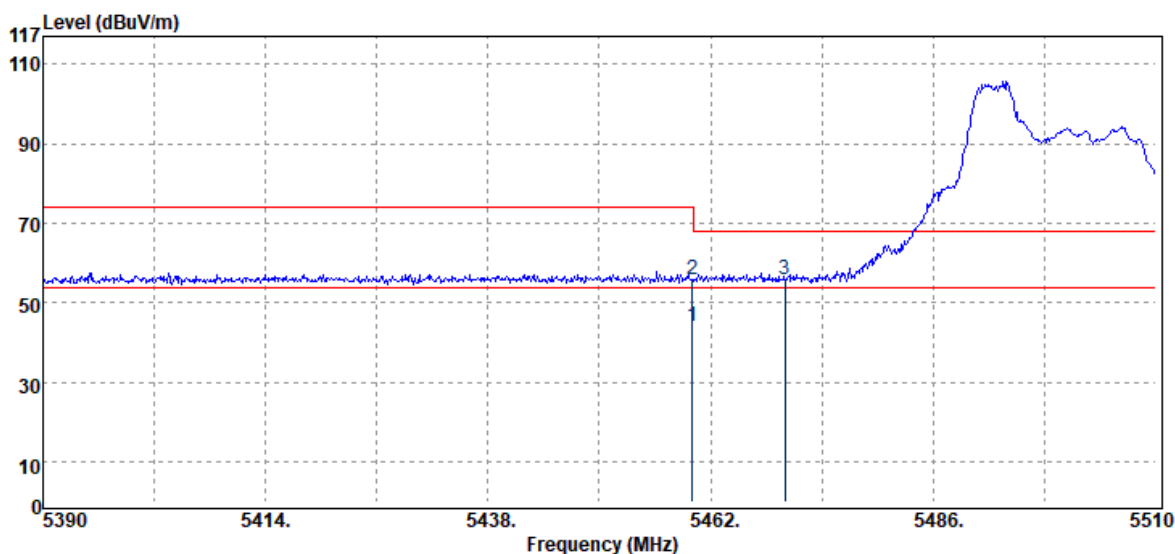
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.26	6.69	43.95	54.00	-10.05
5460.00	Peak	49.23	6.69	55.92	74.00	-18.08
5470.00	Peak	49.10	6.77	55.87	68.20	-12.33

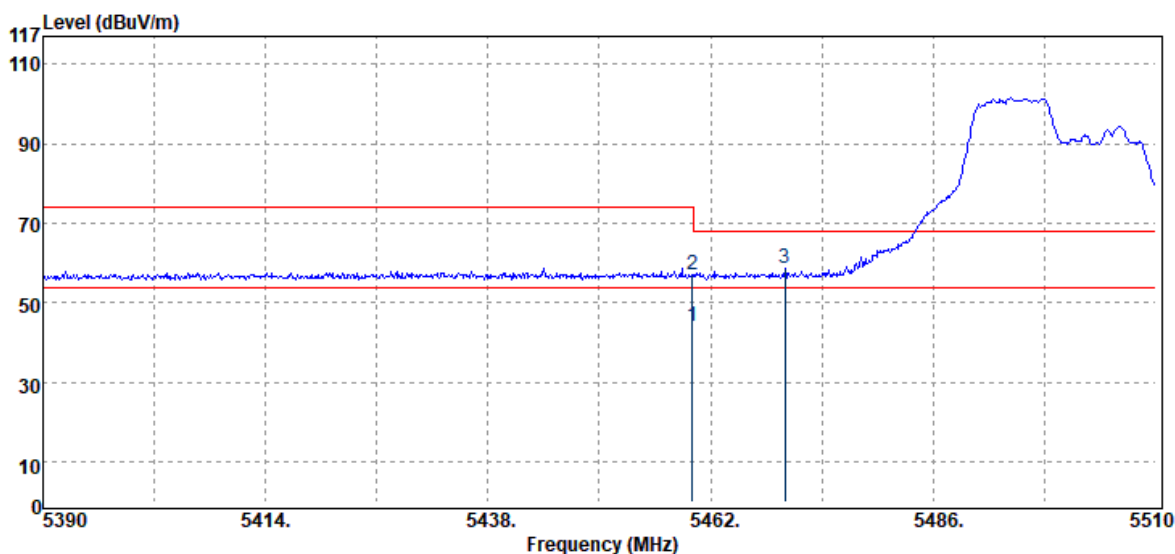
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.30	6.69	43.99	54.00	-10.01
5460.00	Peak	50.41	6.69	57.10	74.00	-16.90
5470.00	Peak	51.74	6.77	58.51	68.20	-9.69

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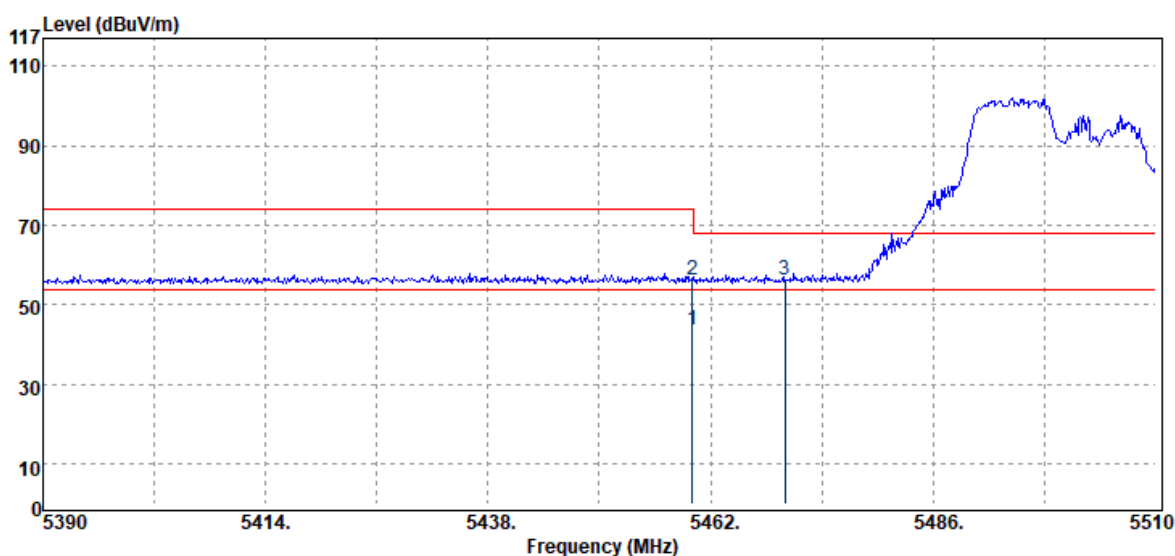
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5500 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.11	6.69	43.80	54.00	-10.20
5460.00	Peak	49.49	6.69	56.18	74.00	-17.82
5470.00	Peak	49.48	6.77	56.25	68.20	-11.95

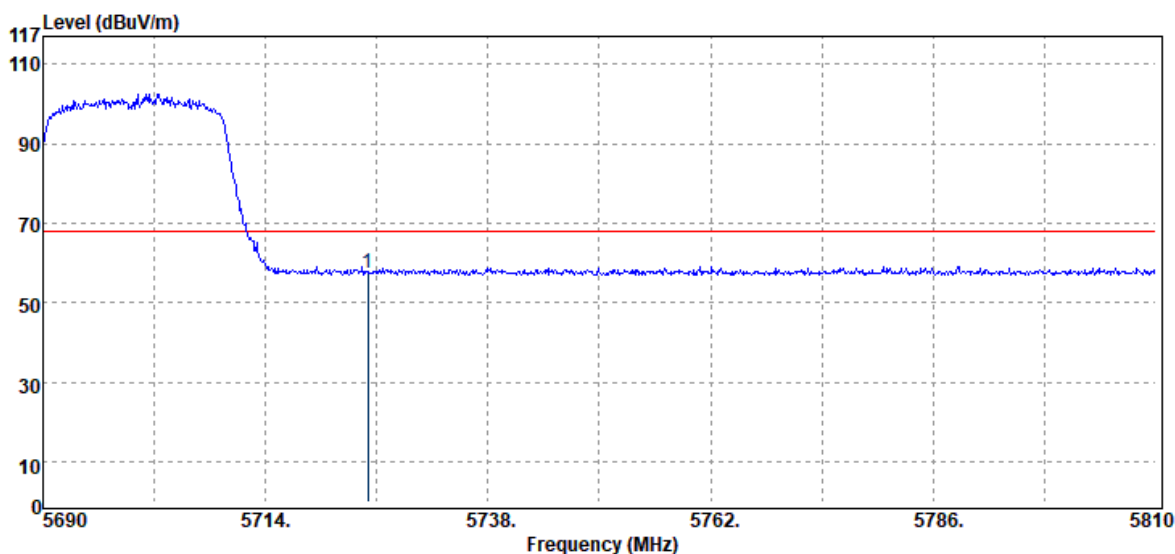
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	49.79	7.53	57.32	68.20	-10.88

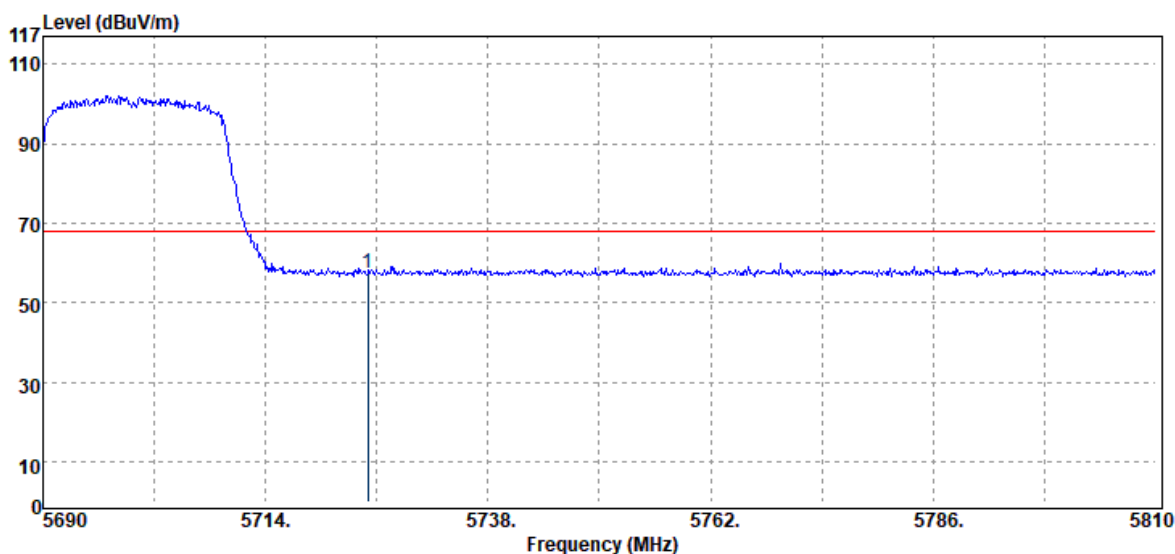
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	49.83	7.53	57.36	68.20	-10.84

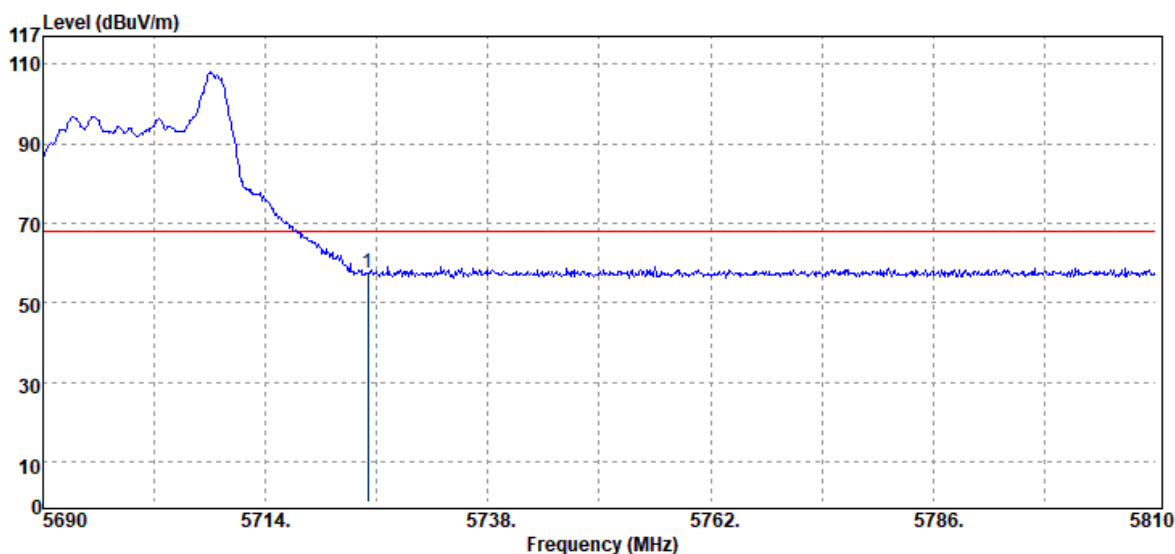
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.04	7.53	57.57	68.20	-10.63

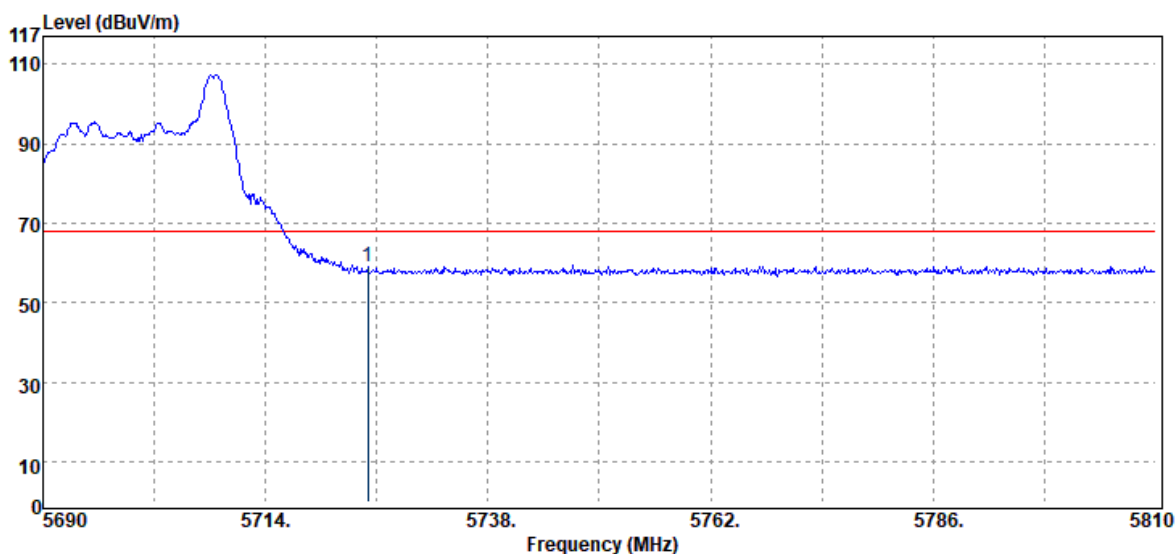
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	51.53	7.53	59.06	68.20	-9.14

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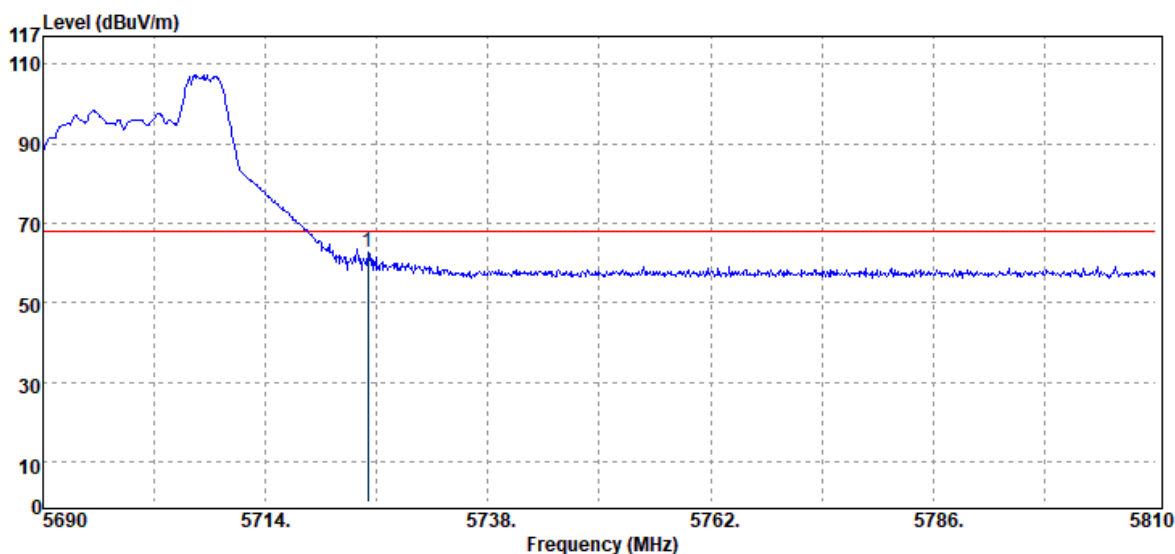
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.18	7.53	62.71	68.20	-5.49

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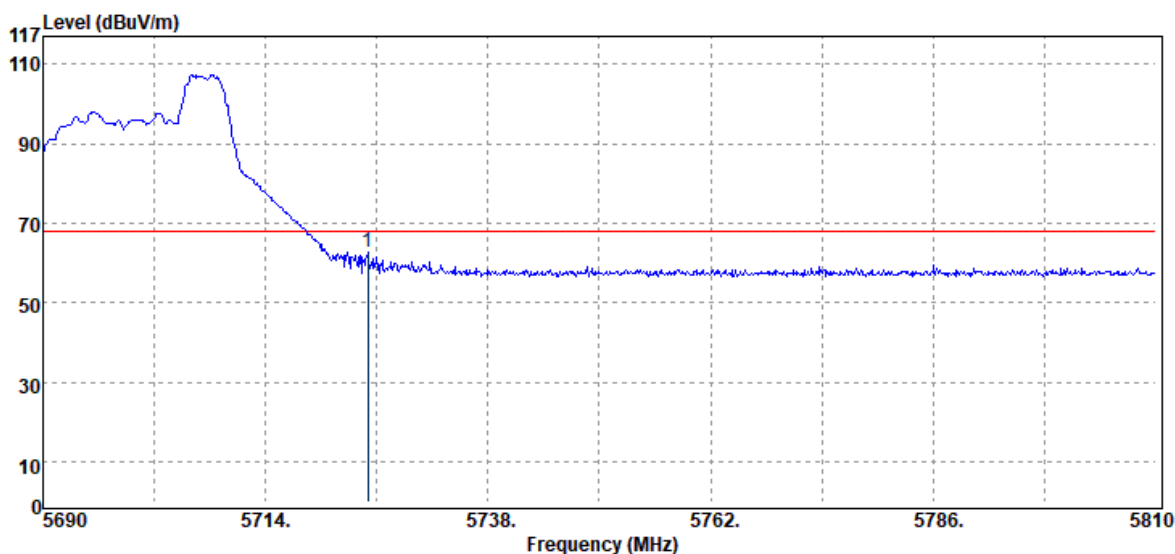
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.36	7.53	62.89	68.20	-5.31

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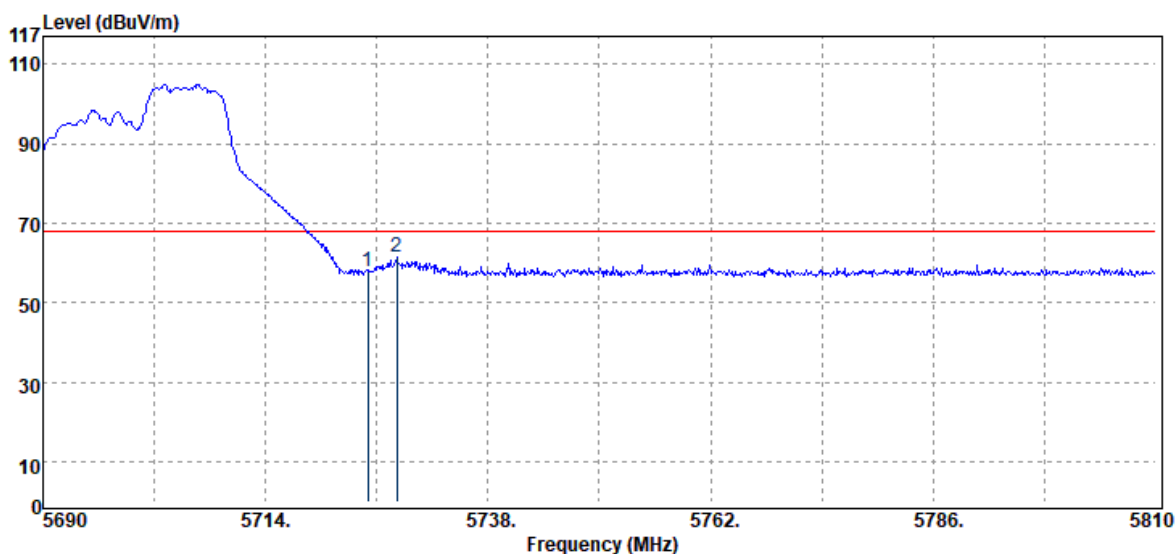
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B3
Test Channel :5700 MHz
Test Mode :Bandedge CH High RU 106/54
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.25	7.53	57.78	68.20	-10.42
5728.16	Peak	53.95	7.54	61.49	68.20	-6.71

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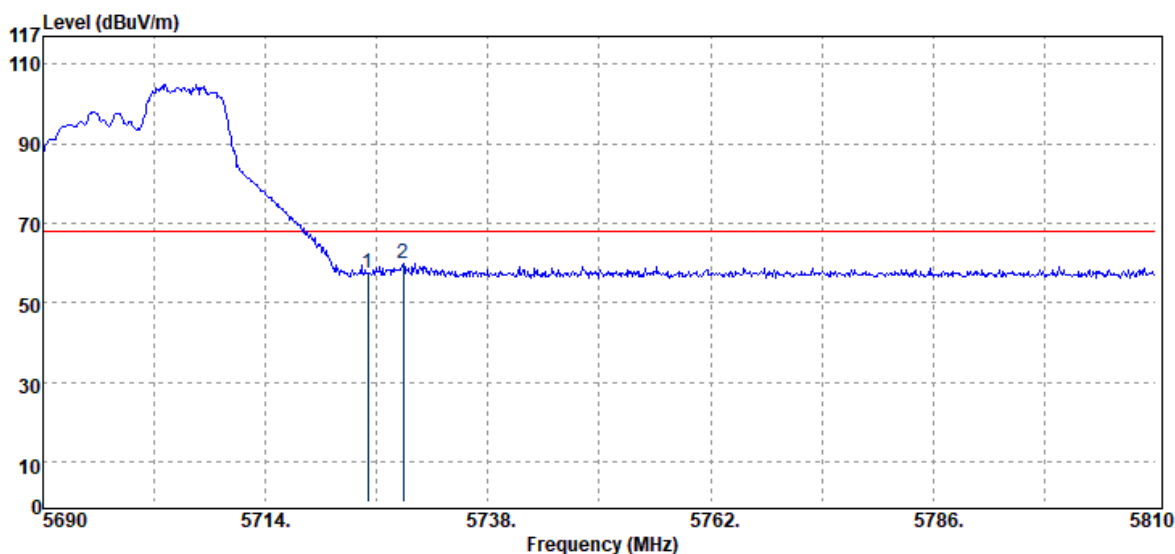
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Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE20B3
 Test Channel :5700 MHz
 Test Mode :Bandedge CH High RU 106/54
 EUT Pol :E1 Plane

Test Date :2020-01-11
 Temp./Humi. :22.3/59
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.08	7.53	57.61	68.20	-10.59
5728.88	Peak	52.57	7.53	60.10	68.20	-8.10

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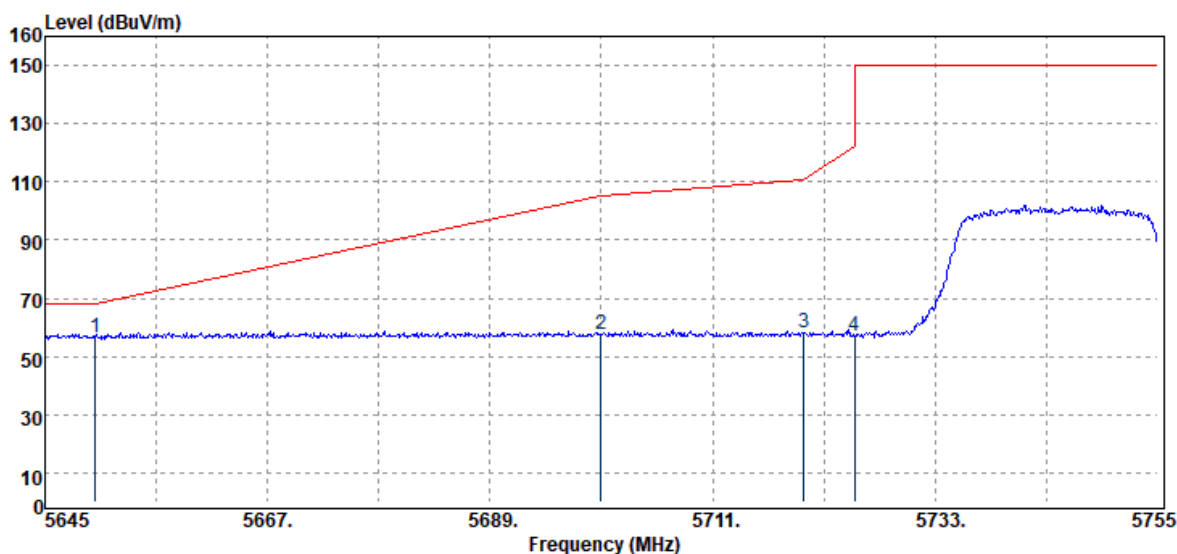
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.33	7.02	56.35	68.20	-11.85
5700.00	Peak	50.30	7.54	57.84	105.20	-47.36
5720.00	Peak	50.49	7.53	58.02	110.80	-52.78
5725.00	Peak	49.71	7.53	57.24	122.20	-64.96

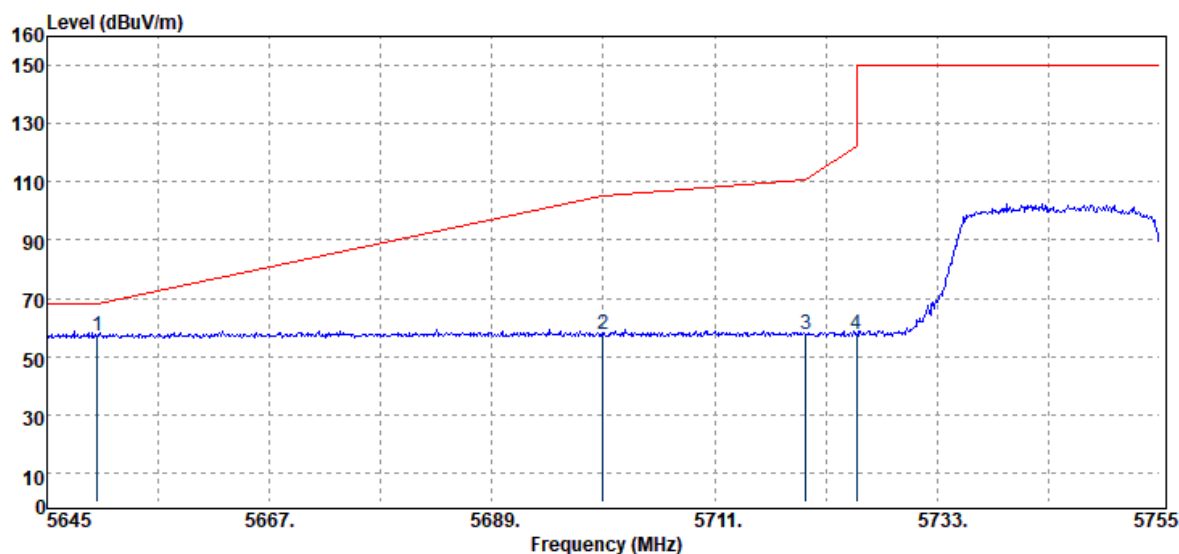
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.82	7.02	56.84	68.20	-11.36
5700.00	Peak	49.92	7.54	57.46	105.20	-47.74
5720.00	Peak	49.91	7.53	57.44	110.80	-53.36
5725.00	Peak	50.13	7.53	57.66	122.20	-64.54

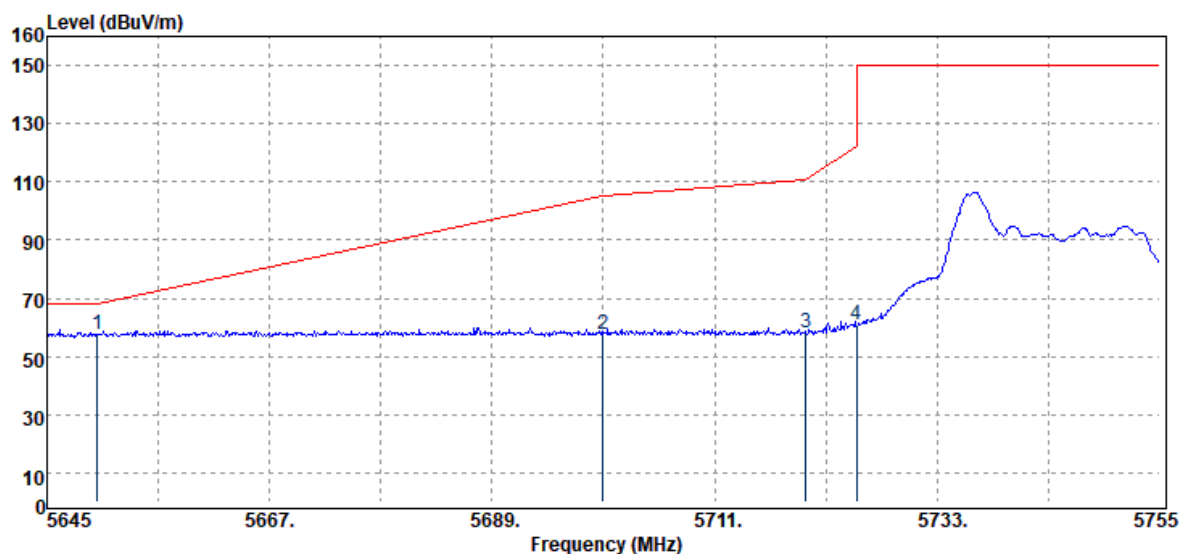
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU 26/0
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.31	7.02	57.33	68.20	-10.87
5700.00	Peak	50.13	7.54	57.67	105.20	-47.53
5720.00	Peak	50.76	7.53	58.29	110.80	-52.51
5725.00	Peak	53.30	7.53	60.83	122.20	-61.37

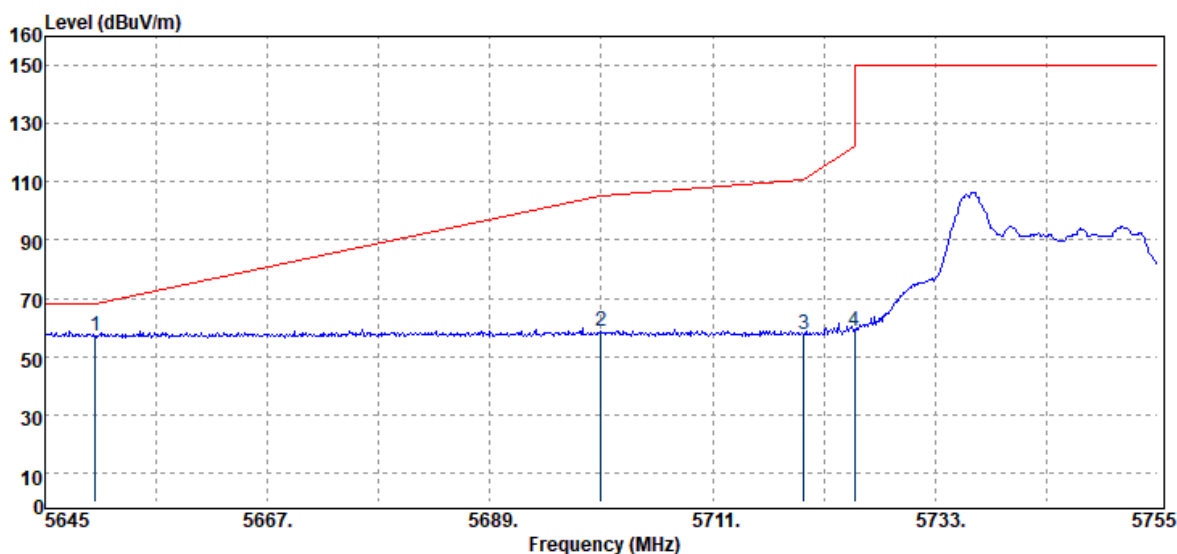
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Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE20B4
 Test Channel :5745 MHz
 Test Mode :Bandedge CH Low RU 26/0
 EUT Pol :E1 Plane

Test Date :2020-01-11
 Temp./Humi. :22.3/59
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.27	7.02	57.29	68.20	-10.91
5700.00	Peak	50.88	7.54	58.42	105.20	-46.78
5720.00	Peak	50.17	7.53	57.70	110.80	-53.10
5725.00	Peak	51.17	7.53	58.70	122.20	-63.50

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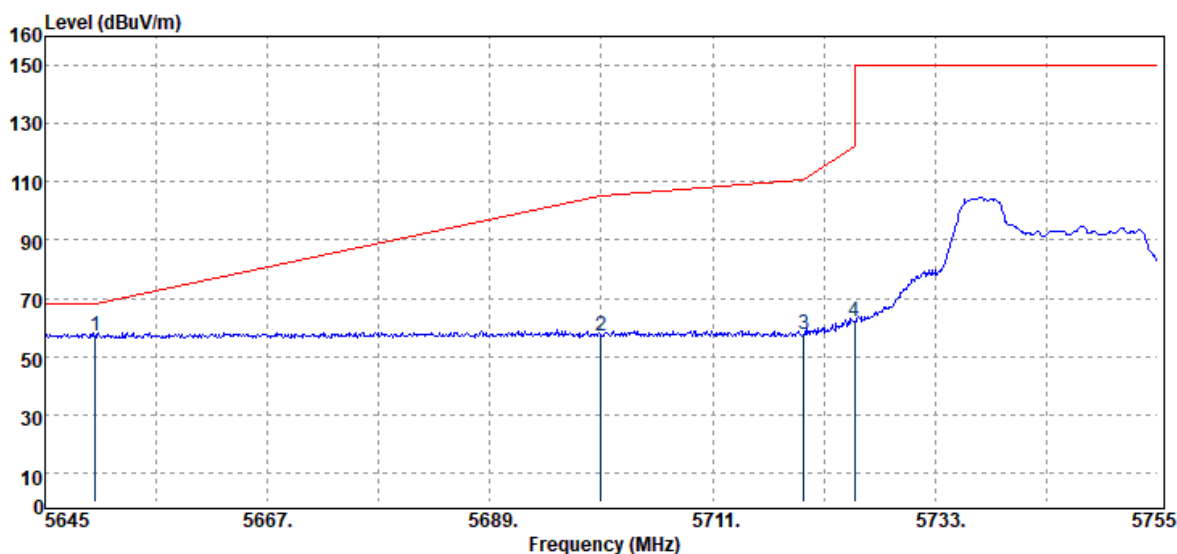
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.86	7.02	56.88	68.20	-11.32
5700.00	Peak	49.75	7.54	57.29	105.20	-47.91
5720.00	Peak	50.27	7.53	57.80	110.80	-53.00
5725.00	Peak	54.50	7.53	62.03	122.20	-60.17

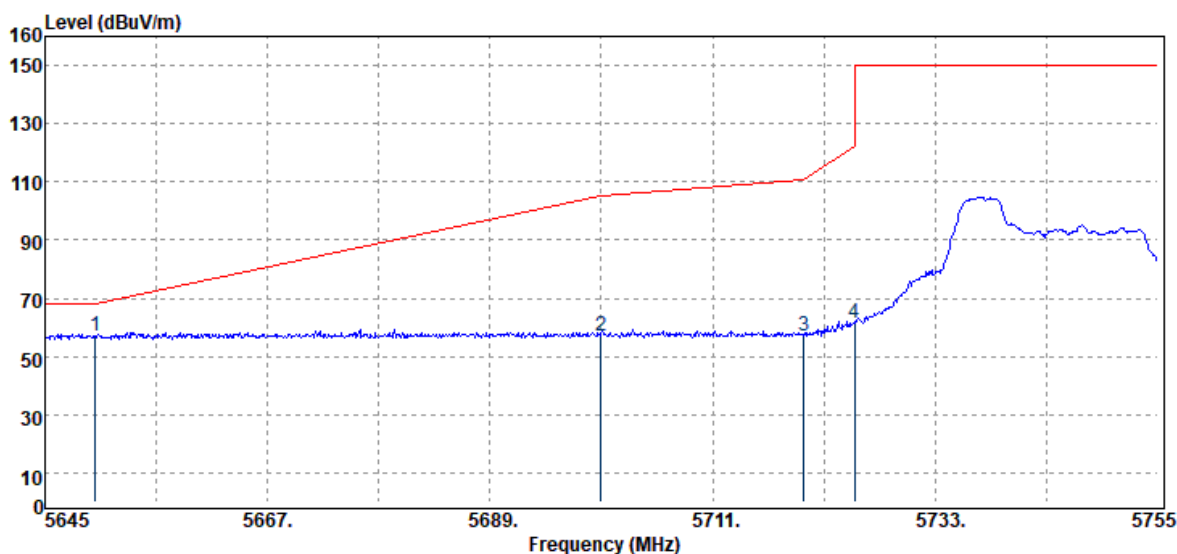
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU 52/37
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.01	7.02	57.03	68.20	-11.17
5700.00	Peak	49.68	7.54	57.22	105.20	-47.98
5720.00	Peak	49.67	7.53	57.20	110.80	-53.60
5725.00	Peak	54.15	7.53	61.68	122.20	-60.52

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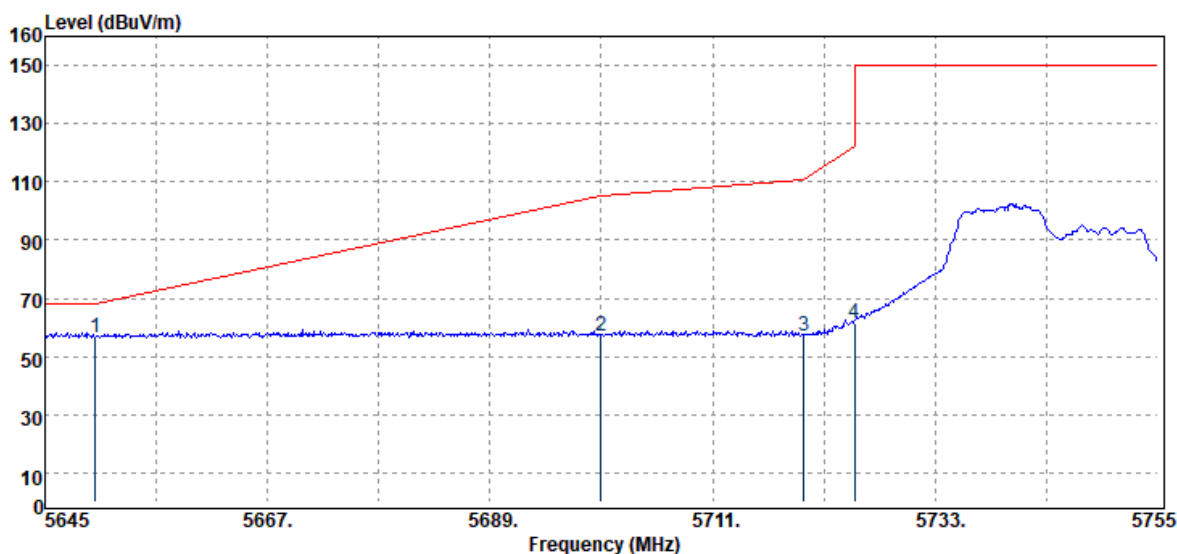
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.71	7.02	56.73	68.20	-11.47
5700.00	Peak	49.75	7.54	57.29	105.20	-47.91
5720.00	Peak	49.69	7.53	57.22	110.80	-53.58
5725.00	Peak	53.93	7.53	61.46	122.20	-60.74

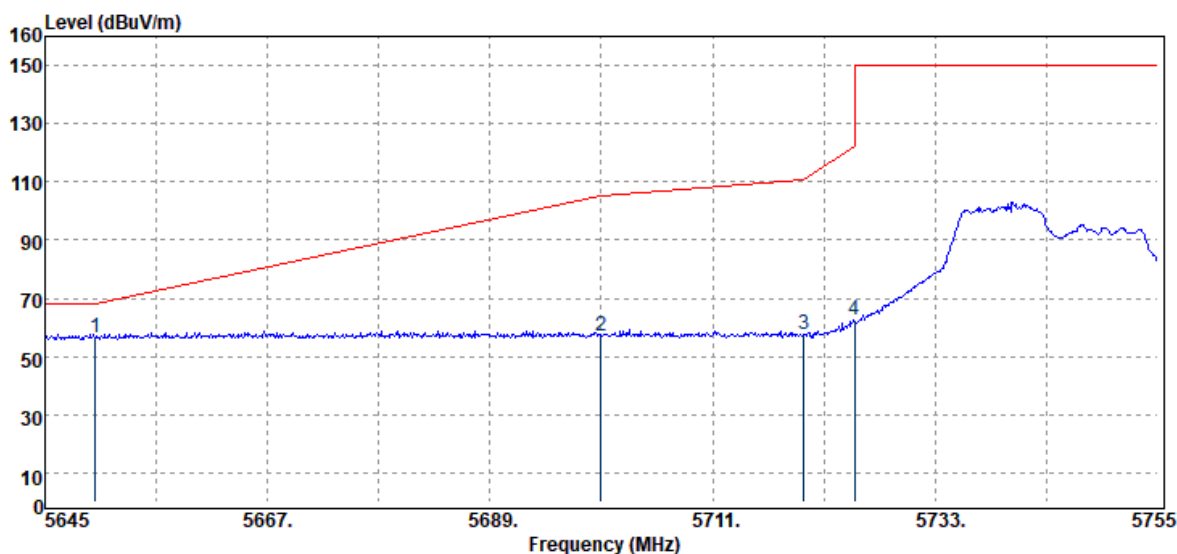
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5745 MHz
Test Mode :Bandedge CH Low RU 106/53
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.47	7.02	56.49	68.20	-11.71
5700.00	Peak	49.71	7.54	57.25	105.20	-47.95
5720.00	Peak	50.31	7.53	57.84	110.80	-52.96
5725.00	Peak	54.89	7.53	62.42	122.20	-59.78

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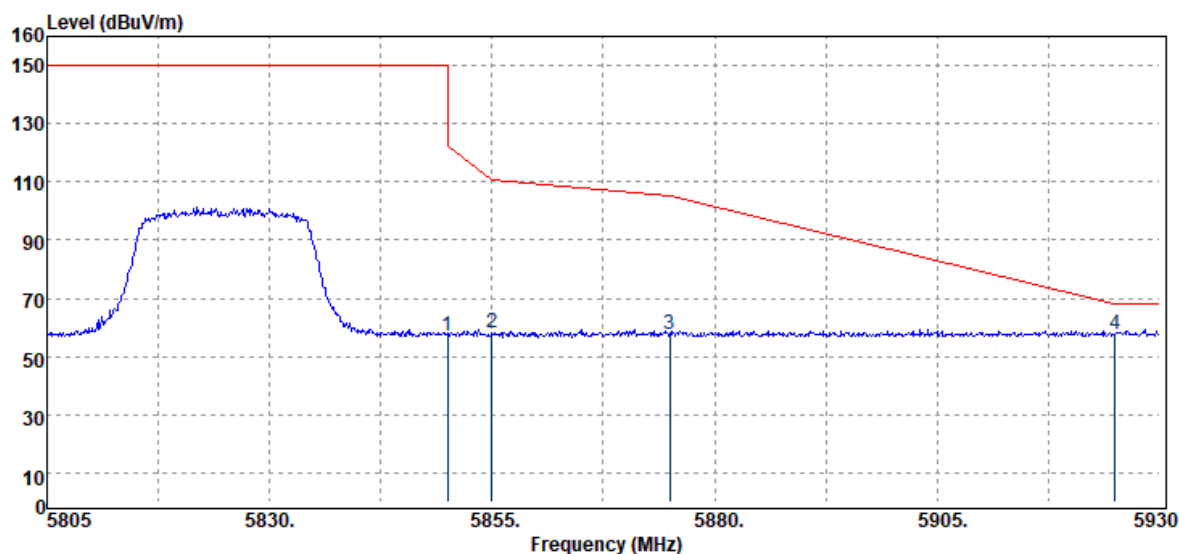
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.33	7.76	57.09	122.20	-65.11
5855.00	Peak	50.61	7.77	58.38	110.80	-52.42
5875.00	Peak	49.79	7.83	57.62	105.20	-47.58
5925.00	Peak	49.36	7.97	57.33	68.20	-10.87

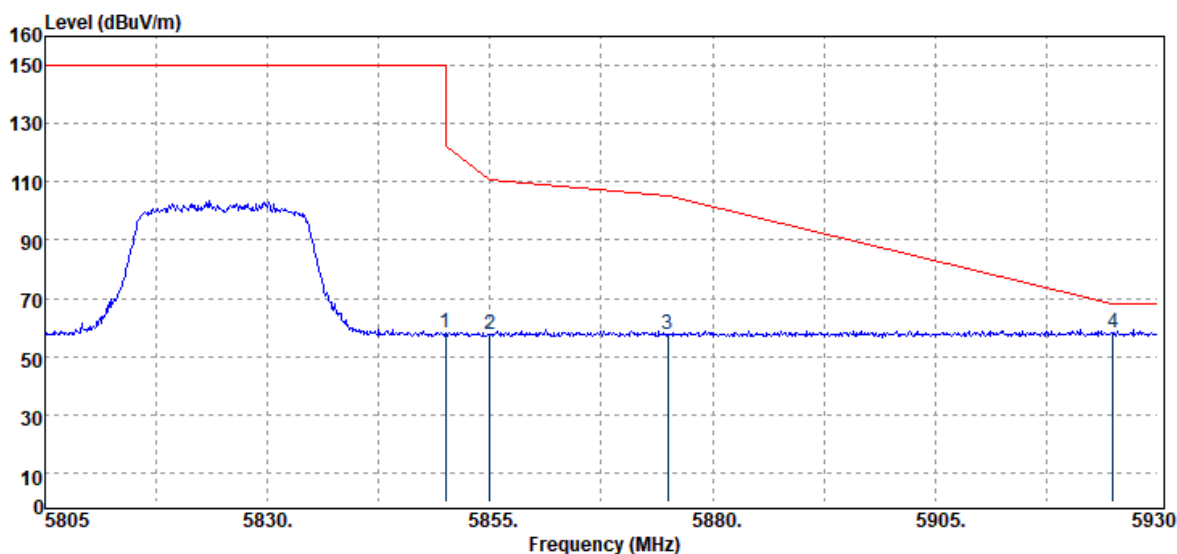
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.20	7.76	57.96	122.20	-64.24
5855.00	Peak	49.71	7.77	57.48	110.80	-53.32
5875.00	Peak	49.89	7.83	57.72	105.20	-47.48
5925.00	Peak	49.89	7.97	57.86	68.20	-10.34

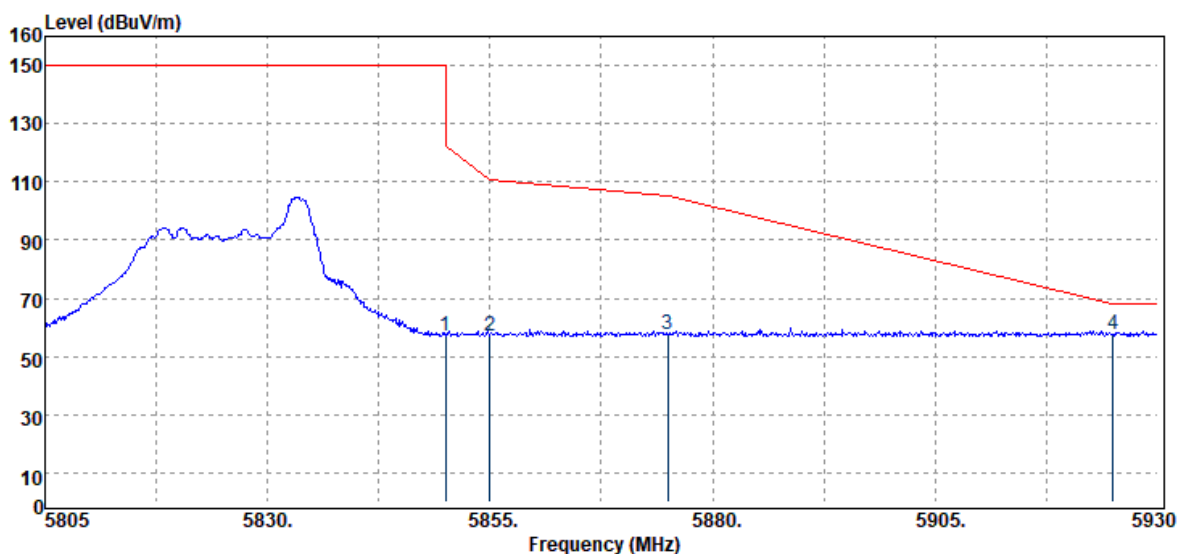
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.53	7.76	57.29	122.20	-64.91
5855.00	Peak	49.49	7.77	57.26	110.80	-53.54
5875.00	Peak	49.51	7.83	57.34	105.20	-47.86
5925.00	Peak	49.81	7.97	57.78	68.20	-10.42

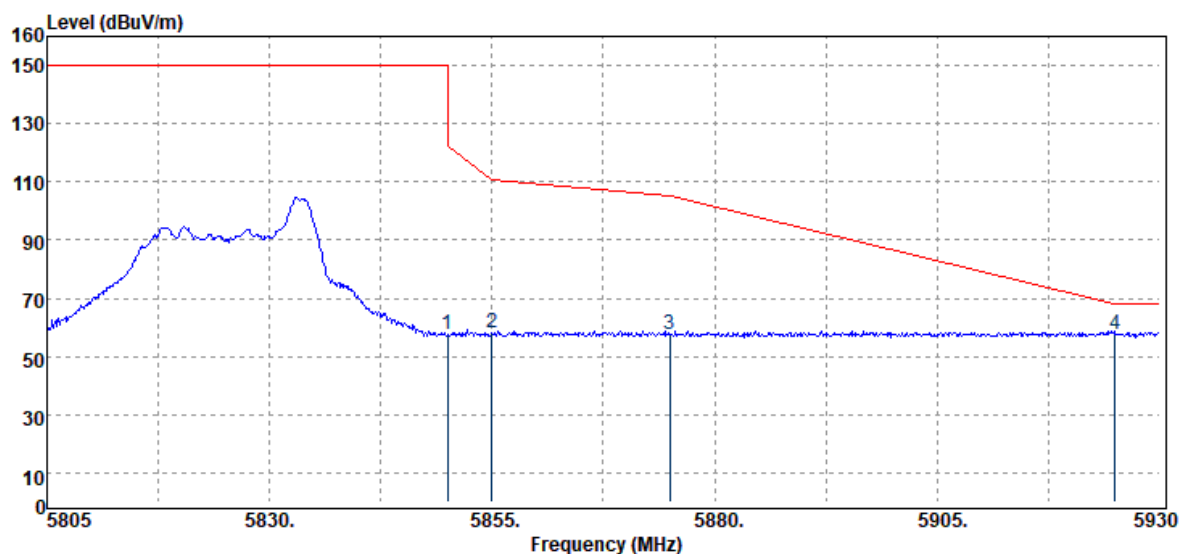
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 26/8
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.09	7.76	57.85	122.20	-64.35
5855.00	Peak	50.22	7.77	57.99	110.80	-52.81
5875.00	Peak	49.60	7.83	57.43	105.20	-47.77
5925.00	Peak	49.72	7.97	57.69	68.20	-10.51

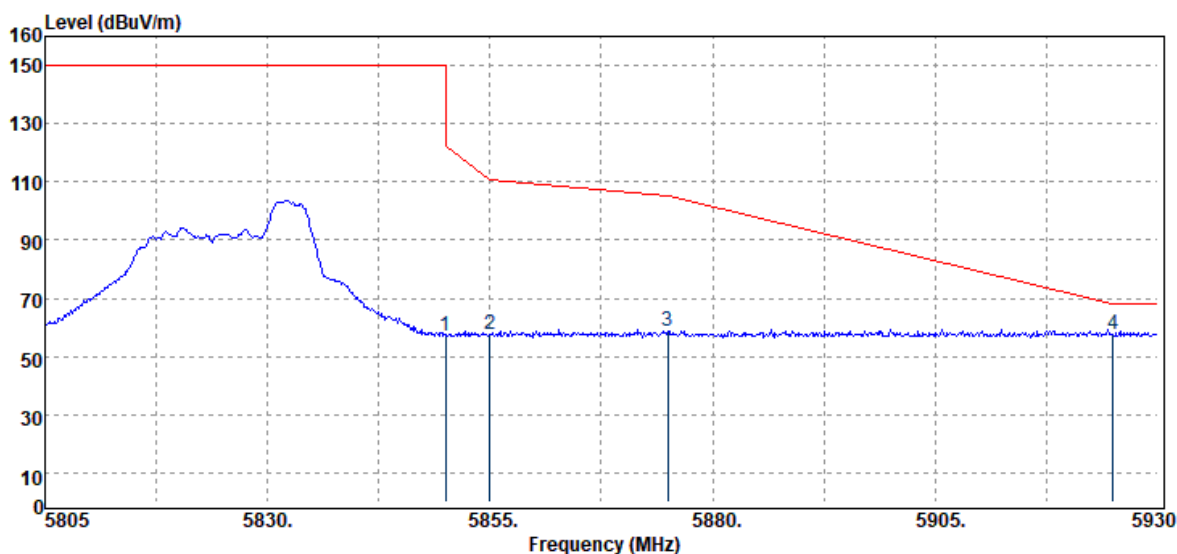
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.53	7.76	57.29	122.20	-64.91
5855.00	Peak	49.73	7.77	57.50	110.80	-53.30
5875.00	Peak	50.59	7.83	58.42	105.20	-46.78
5925.00	Peak	49.81	7.97	57.78	68.20	-10.42

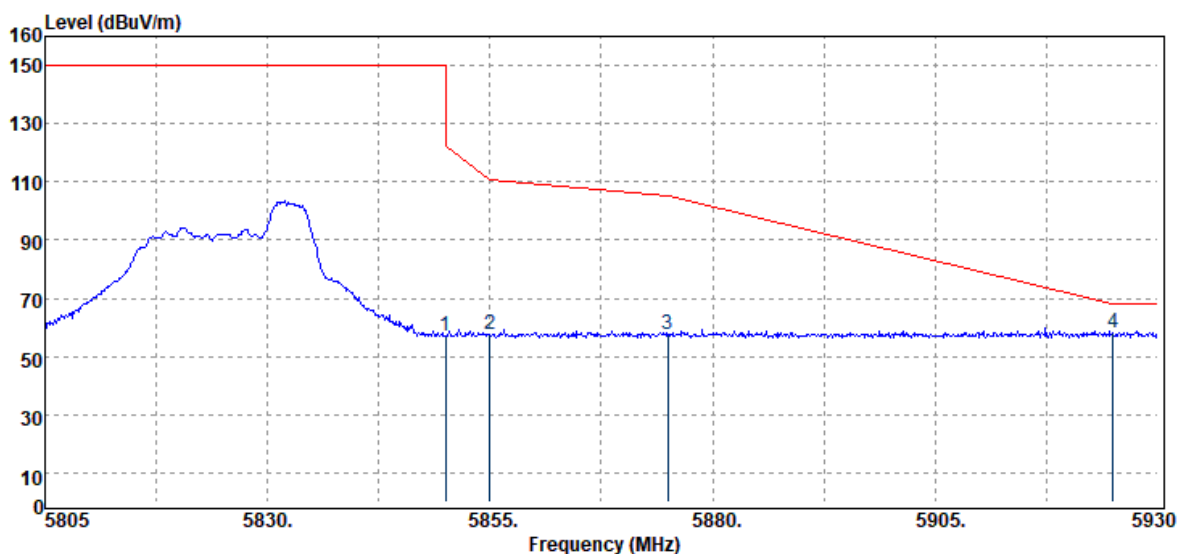
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 52/40
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.37	7.76	57.13	122.20	-65.07
5855.00	Peak	50.07	7.77	57.84	110.80	-52.96
5875.00	Peak	49.53	7.83	57.36	105.20	-47.84
5925.00	Peak	50.42	7.97	58.39	68.20	-9.81

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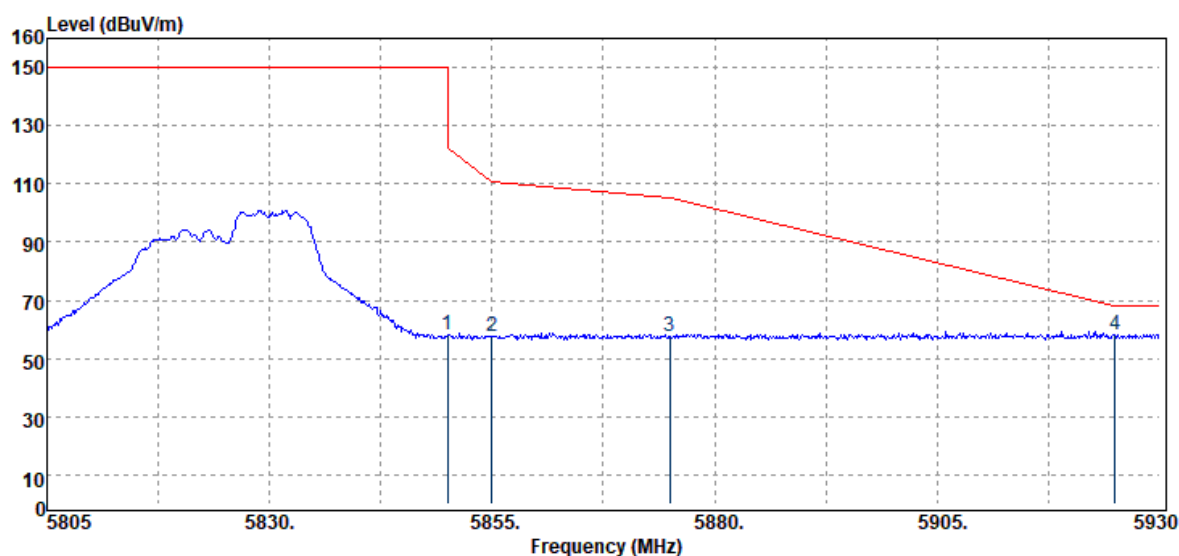
No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/ 新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 106/54
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.18	7.76	57.94	122.20	-64.26
5855.00	Peak	49.80	7.77	57.57	110.80	-53.23
5875.00	Peak	49.69	7.83	57.52	105.20	-47.68
5925.00	Peak	49.89	7.97	57.86	68.20	-10.34

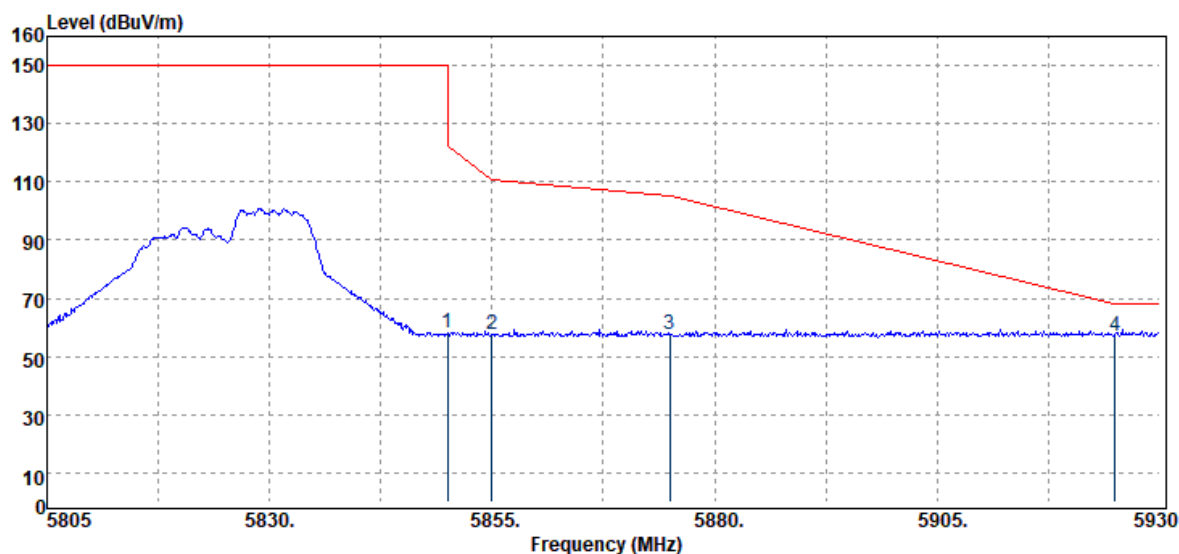
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE20B4
Test Channel :5825 MHz
Test Mode :Bandedge CH High RU 106/54
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.15	7.76	57.91	122.20	-64.29
5855.00	Peak	50.07	7.77	57.84	110.80	-52.96
5875.00	Peak	49.75	7.83	57.58	105.20	-47.62
5925.00	Peak	49.30	7.97	57.27	68.20	-10.93

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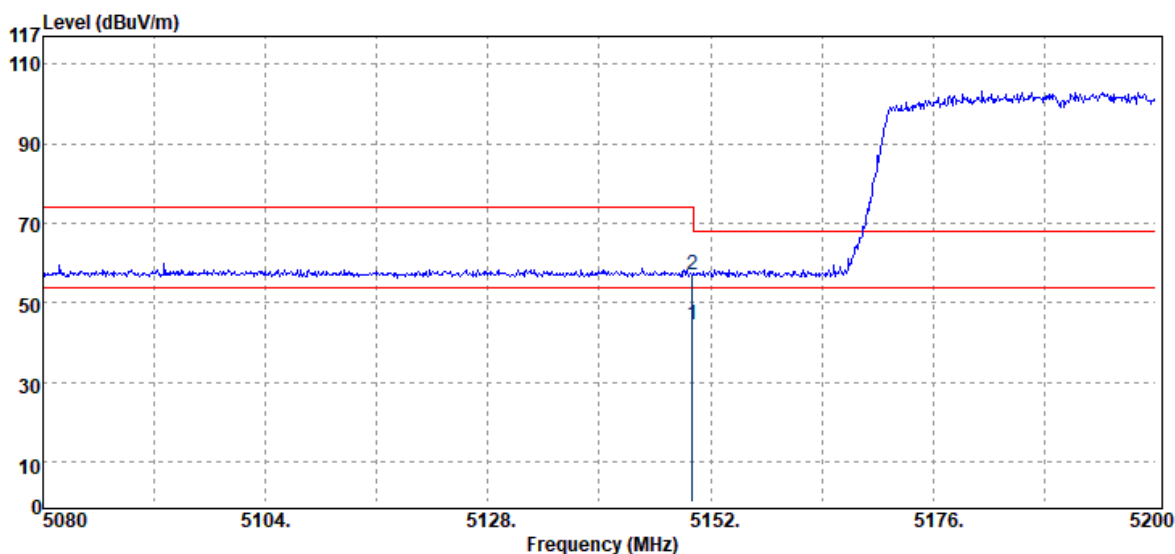
No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/ 新北市五股區新北產業園區五工路 134 號
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.58	7.10	44.68	54.00	-9.32
5150.00	Peak	49.98	7.10	57.08	74.00	-16.92

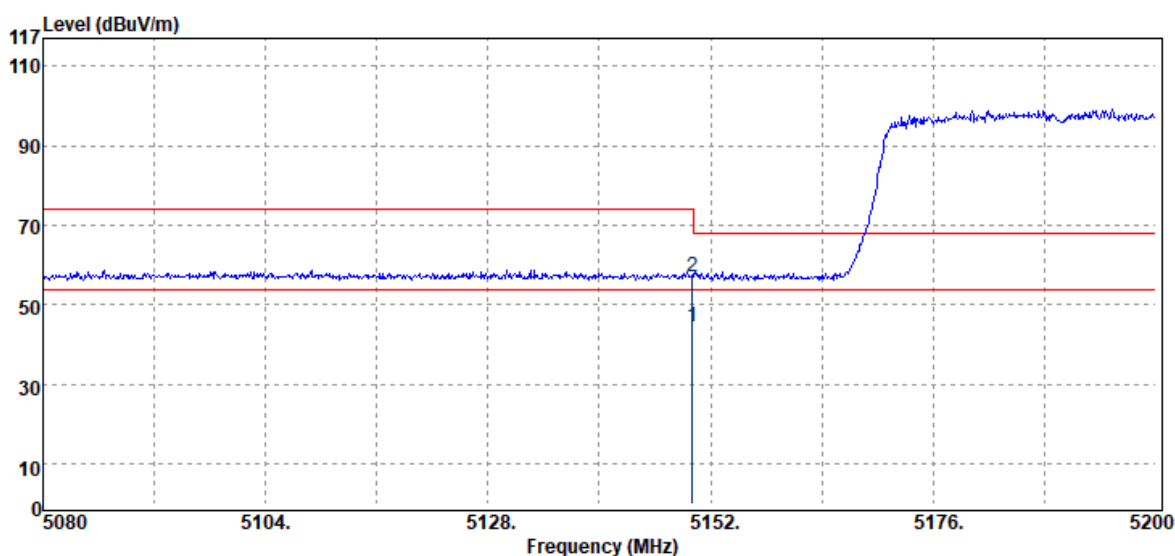
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



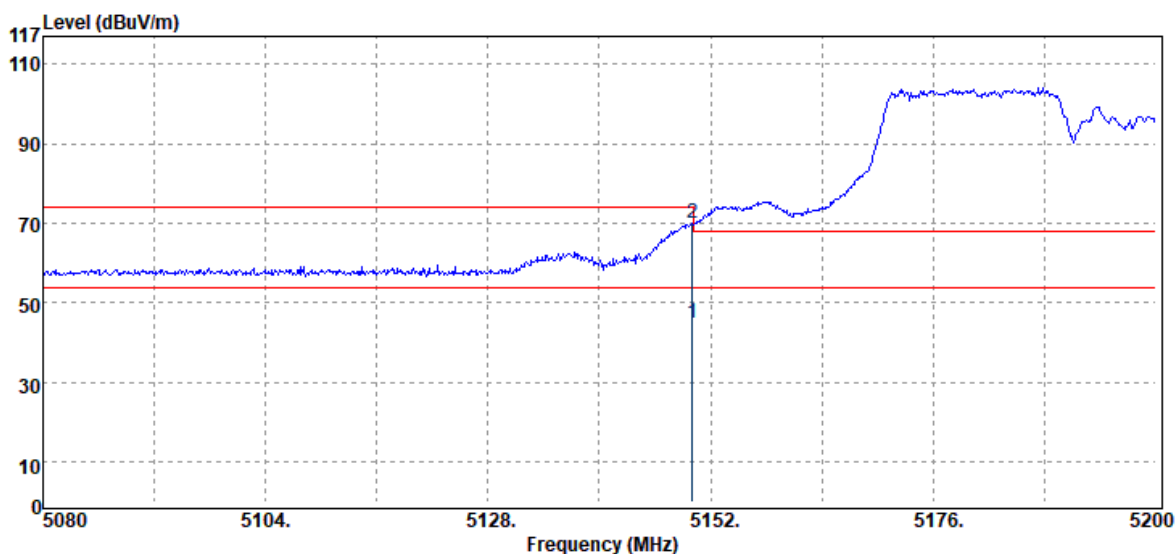
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.35	7.10	44.45	54.00	-9.55
5150.00	Peak	49.78	7.10	56.88	74.00	-17.12

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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low RU 242/61
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.73	7.10	44.83	54.00	-9.17
5150.00	Peak	62.93	7.10	70.03	74.00	-3.97

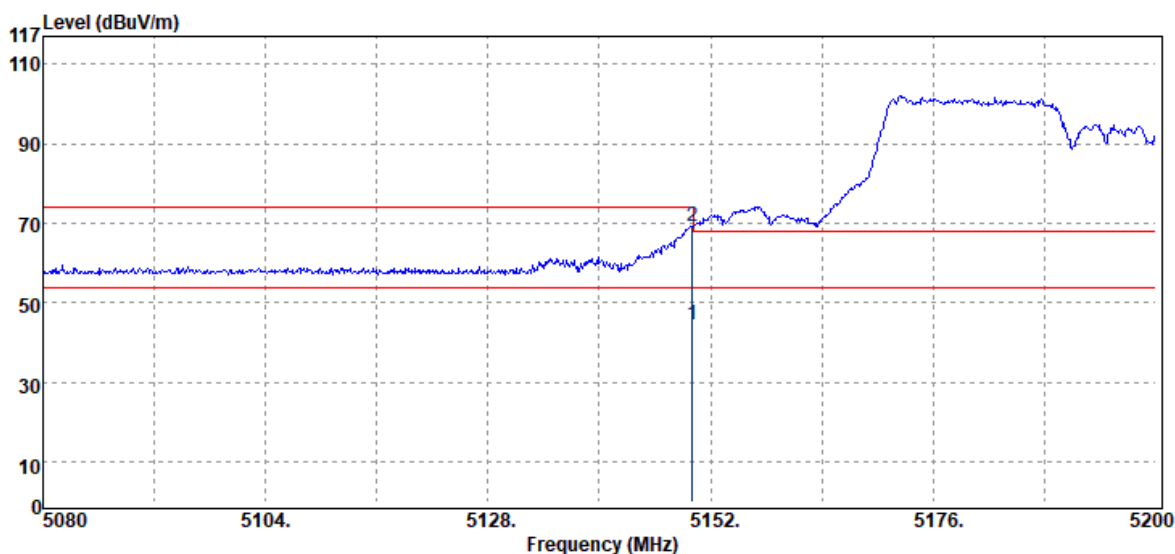
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B1
Test Channel :5190 MHz
Test Mode :Bandedge CH Low RU 242/61
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.53	7.10	44.63	54.00	-9.37
5150.00	Peak	62.24	7.10	69.34	74.00	-4.66

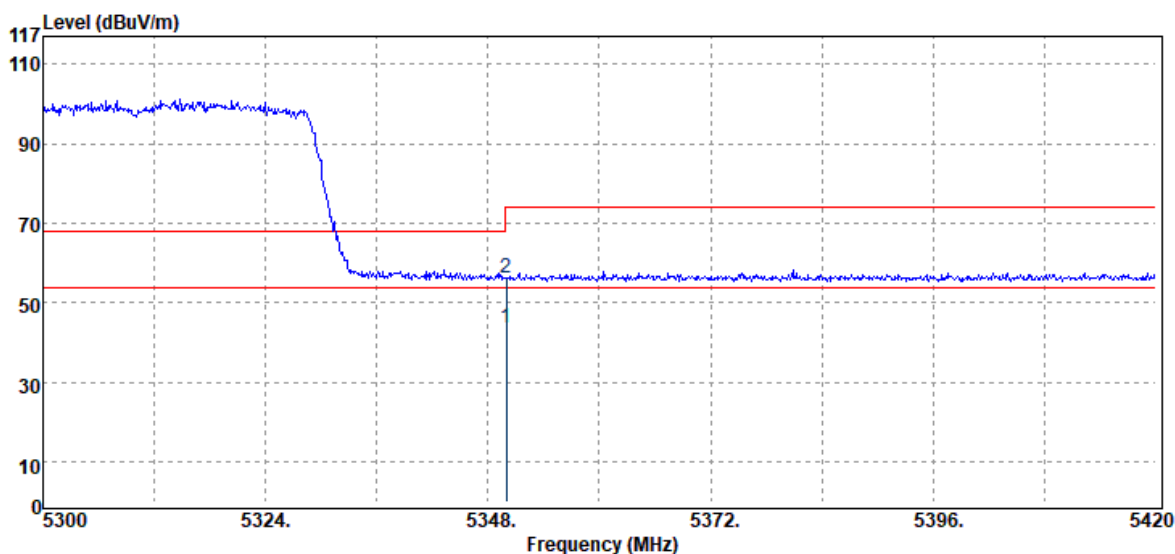
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5310 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.60	6.21	43.81	54.00	-10.19
5350.00	Peak	49.94	6.21	56.15	74.00	-17.85

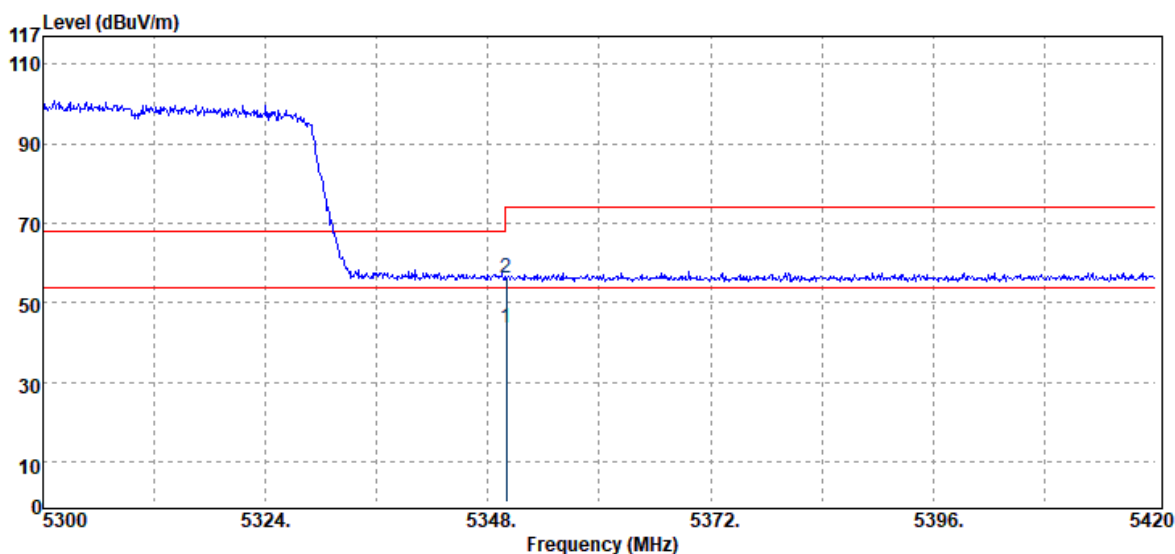
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5310 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.67	6.21	43.88	54.00	-10.12
5350.00	Peak	49.97	6.21	56.18	74.00	-17.82

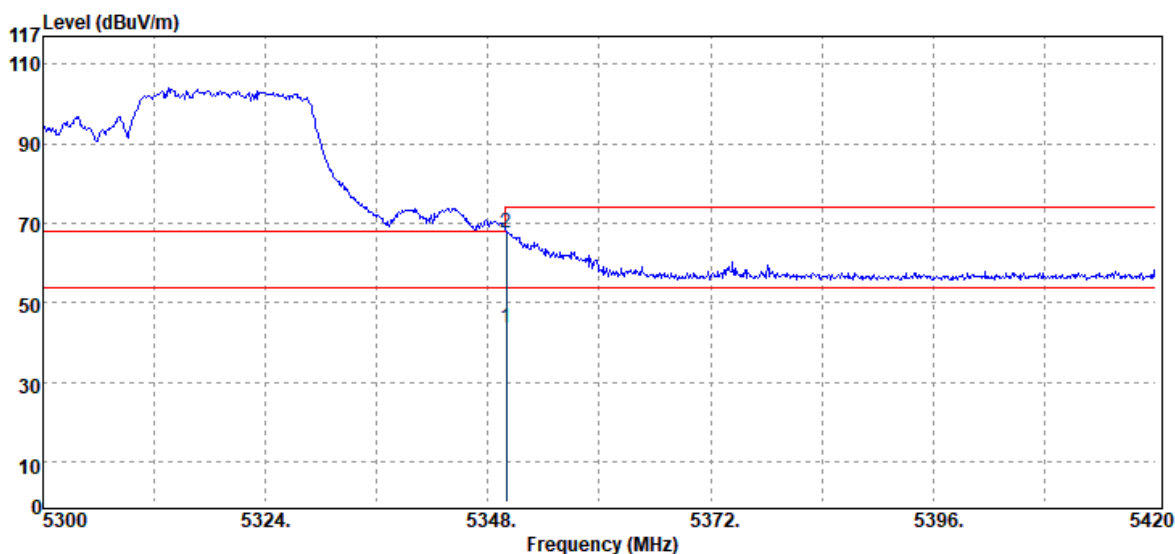
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B2
Test Channel :5310 MHz
Test Mode :Bandedge CH High RU 242/62
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.53	6.21	43.74	54.00	-10.26
5350.00	Peak	61.34	6.21	67.55	74.00	-6.45

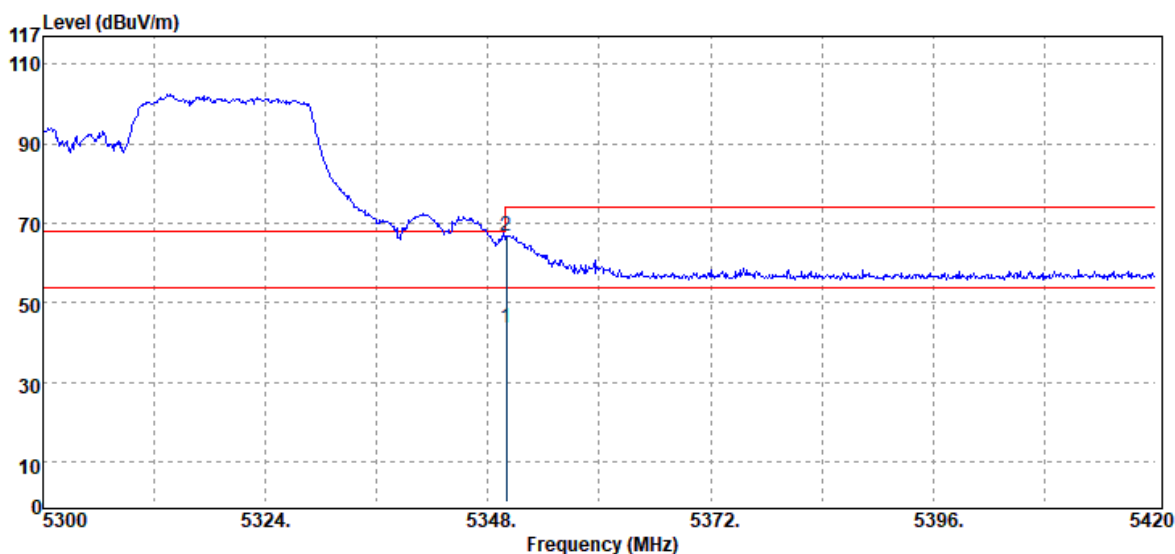
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Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE40B2
 Test Channel :5310 MHz
 Test Mode :Bandedge CH High RU 242/62
 EUT Pol :E1 Plane

Test Date :2020-01-11
 Temp./Humi. :22.3/59
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.63	6.21	43.84	54.00	-10.16
5350.00	Peak	60.41	6.21	66.62	74.00	-7.38

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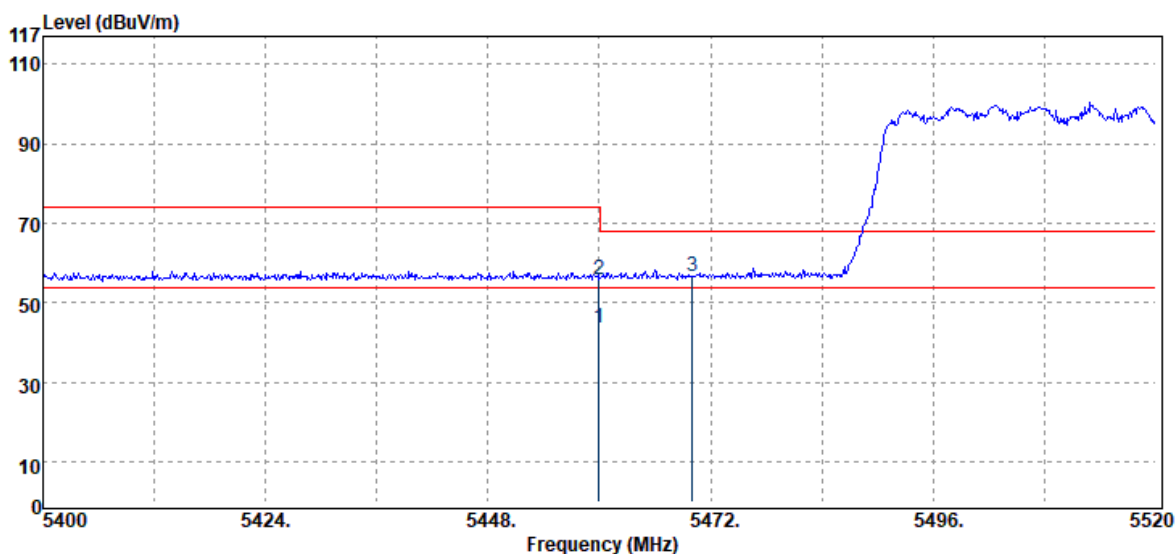
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5510 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.20	6.69	43.89	54.00	-10.11
5460.00	Peak	49.23	6.69	55.92	74.00	-18.08
5470.00	Peak	49.95	6.77	56.72	68.20	-11.48

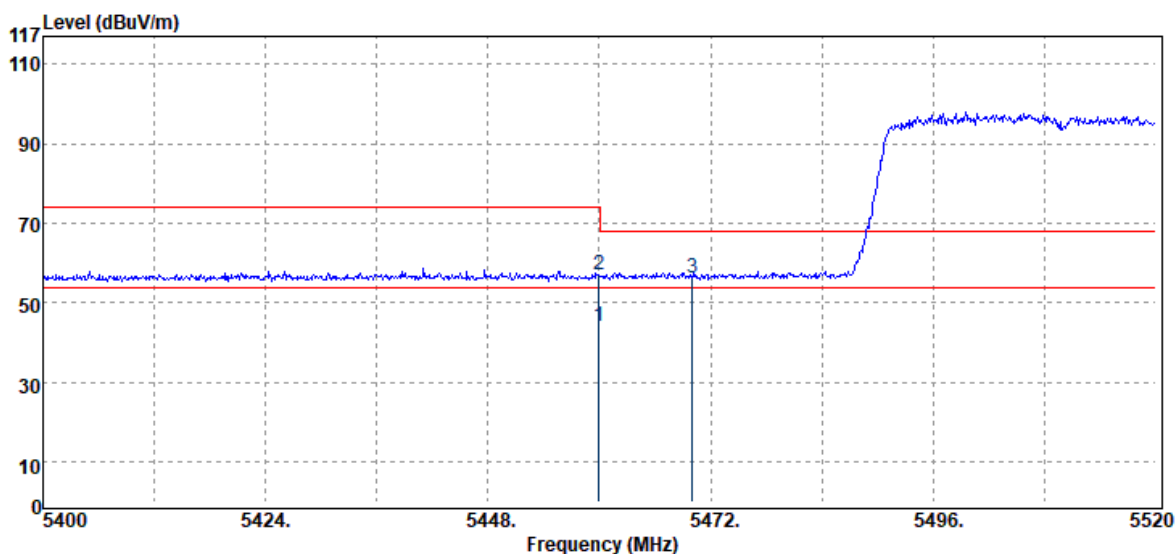
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5510 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.24	6.69	43.93	54.00	-10.07
5460.00	Peak	50.39	6.69	57.08	74.00	-16.92
5470.00	Peak	49.38	6.77	56.15	68.20	-12.05

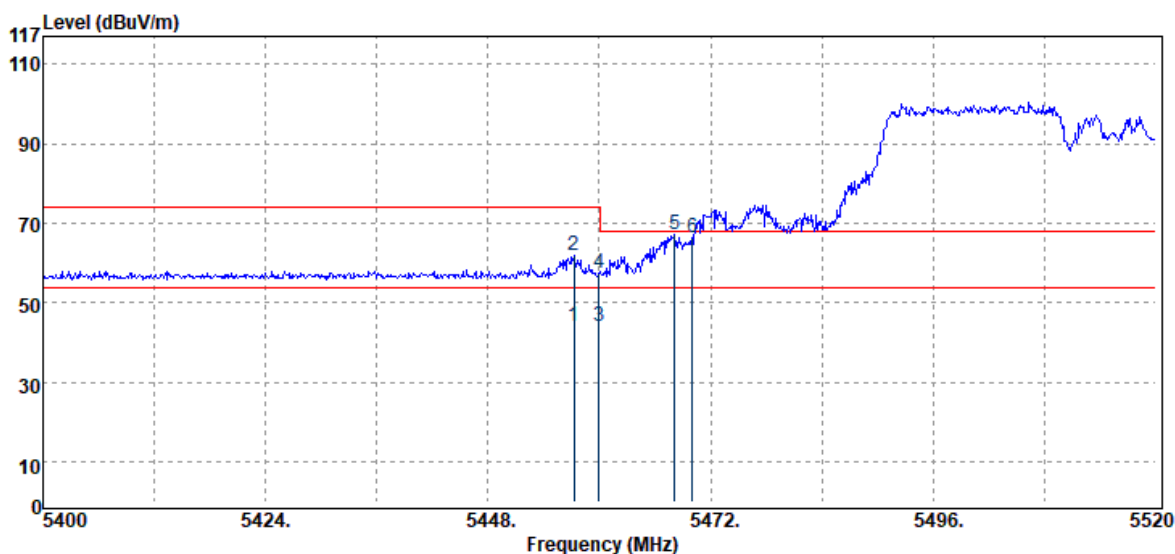
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Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE40B3
 Test Channel :5510 MHz
 Test Mode :Bandedge CH Low RU 242/61
 EUT Pol :E1 Plane

Test Date :2020-01-11
 Temp./Humi. :22.3/59
 Antenna Pol. :VERTICAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.24	Average	37.54	6.67	44.21	54.00	-9.79
5457.24	Peak	55.41	6.67	62.08	74.00	-11.92
5460.00	Average	37.41	6.69	44.10	54.00	-9.90
5460.00	Peak	50.97	6.69	57.66	74.00	-16.34
5468.16	Peak	60.34	6.75	67.09	68.20	-1.11
5470.00	Peak	59.75	6.77	66.52	68.20	-1.68

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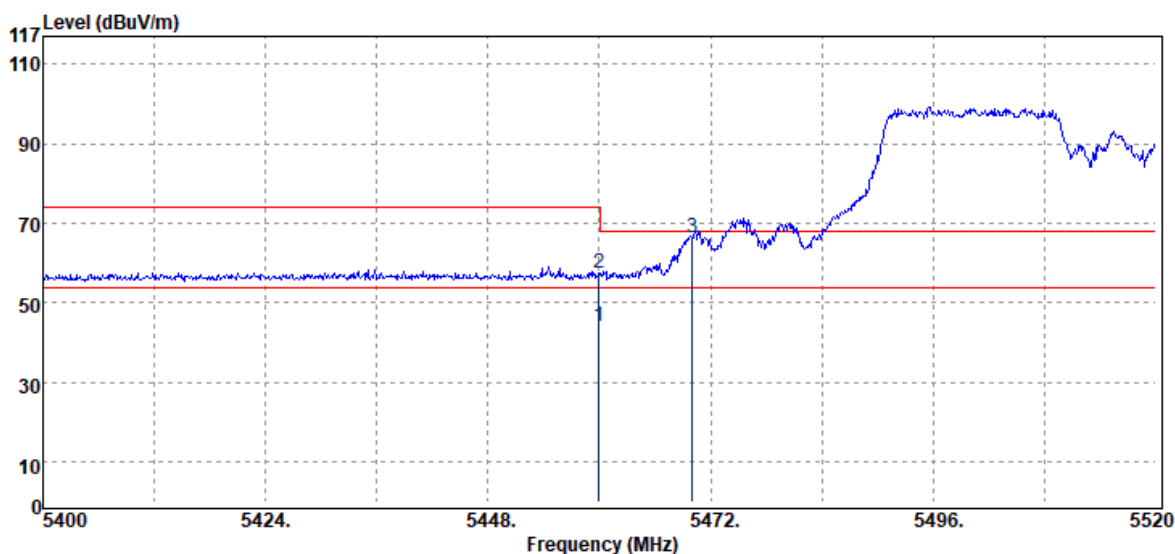
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5510 MHz
Test Mode :Bandedge CH Low RU 242/61
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.48	6.69	44.17	54.00	-9.83
5460.00	Peak	50.60	6.69	57.29	74.00	-16.71
5470.00	Peak	59.56	6.77	66.33	68.20	-1.87

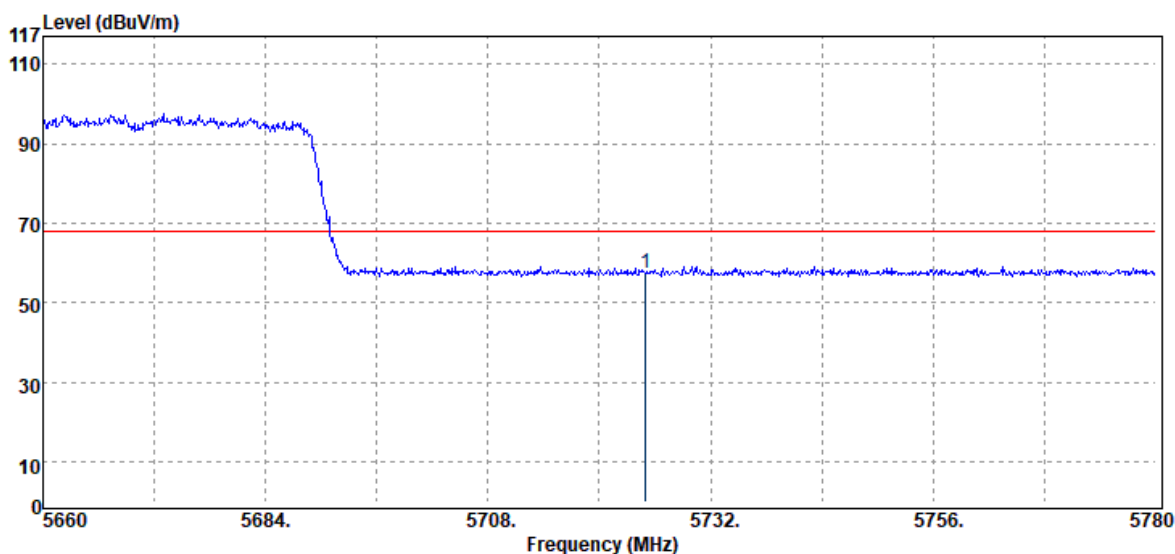
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.16	7.53	57.69	68.20	-10.51

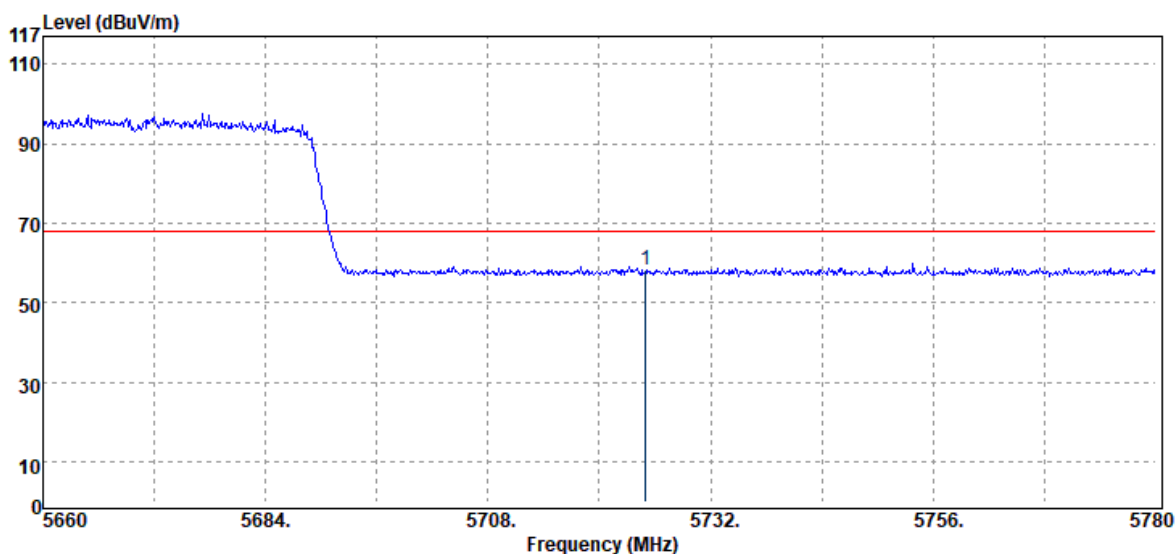
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.68	7.53	58.21	68.20	-9.99

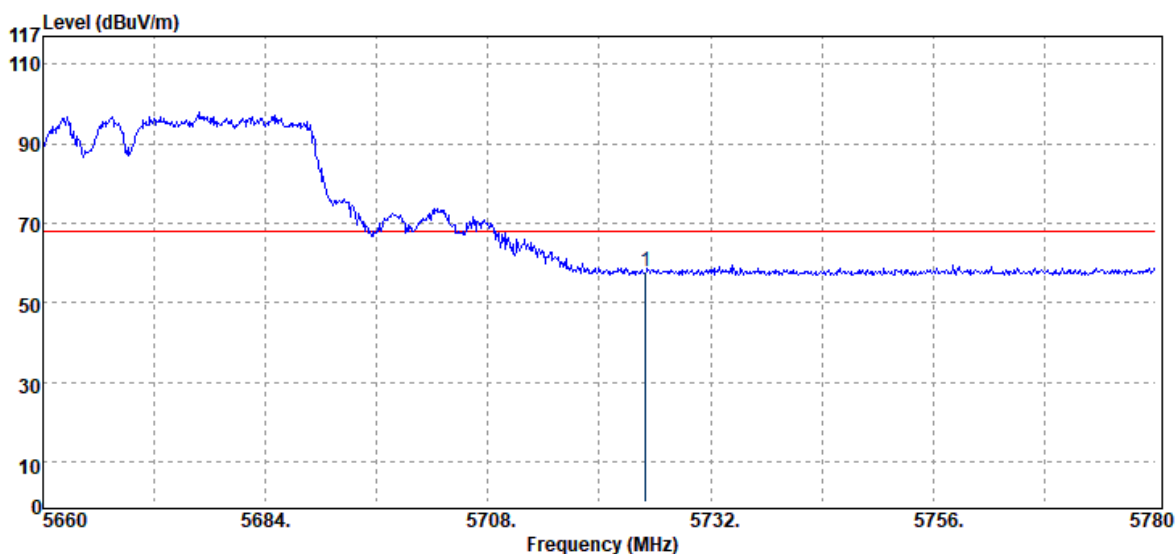
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Bandedge CH High RU 242/62
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.38	7.53	57.91	68.20	-10.29

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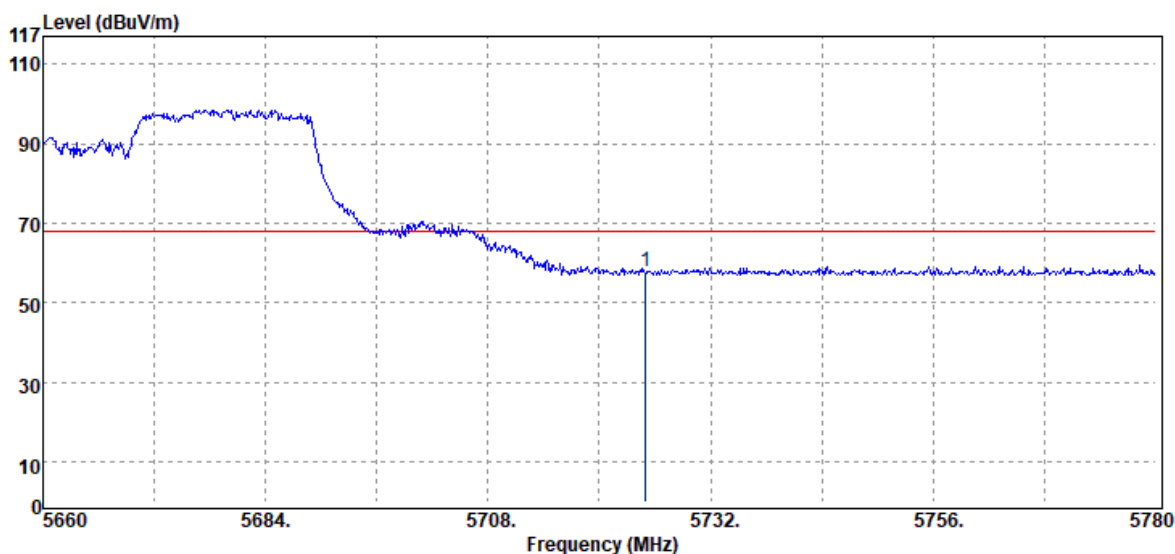
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B3
Test Channel :5670 MHz
Test Mode :Bandedge CH High RU 242/62
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	50.29	7.53	57.82	68.20	-10.38

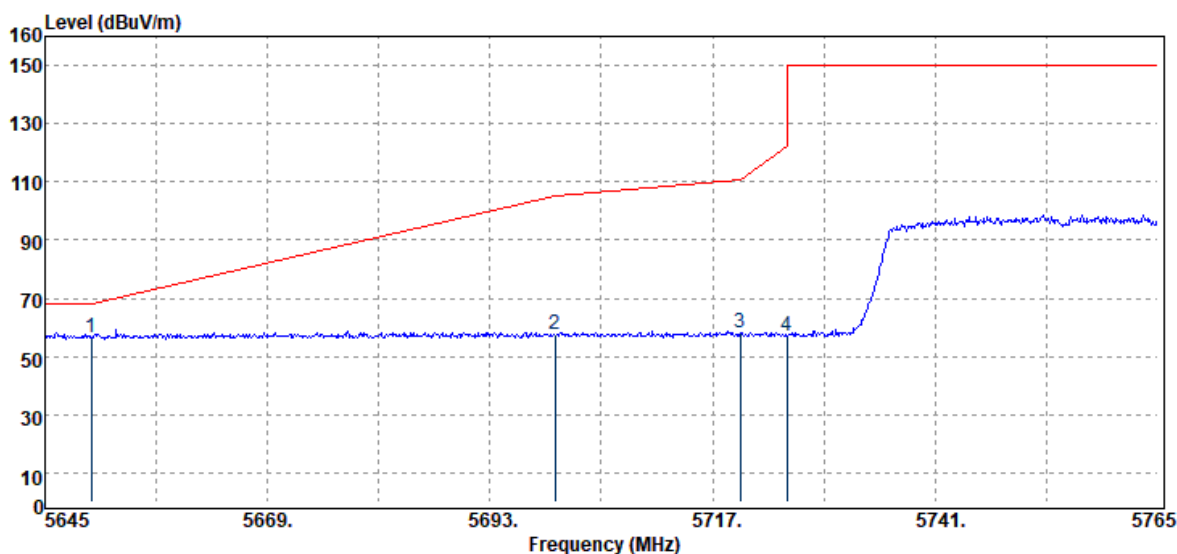
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.71	7.02	56.73	68.20	-11.47
5700.00	Peak	50.08	7.54	57.62	105.20	-47.58
5720.00	Peak	50.50	7.53	58.03	110.80	-52.77
5725.00	Peak	49.67	7.53	57.20	122.20	-65.00

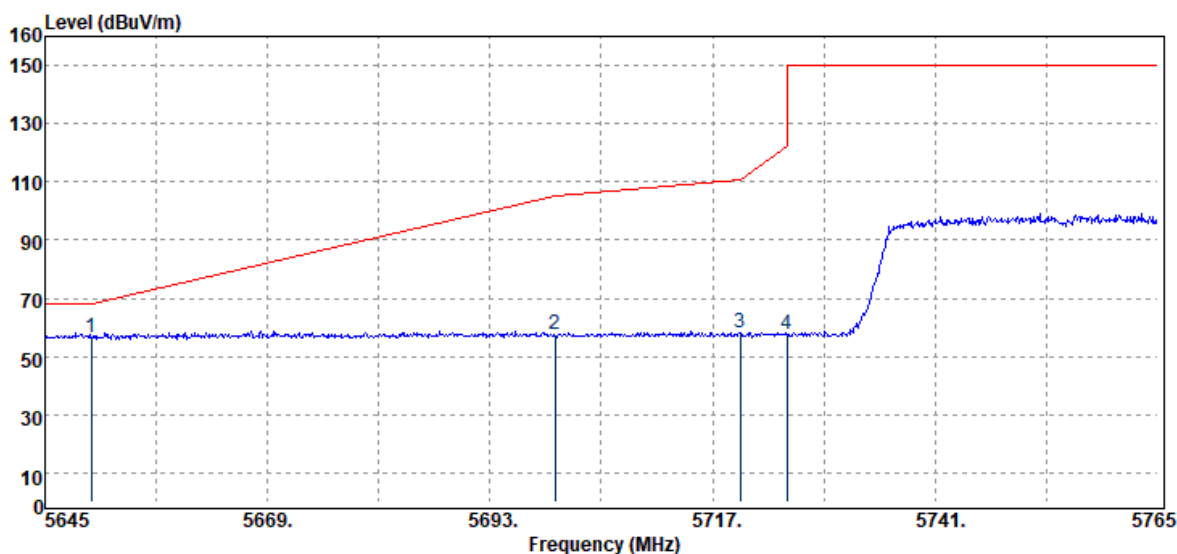
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.26	7.02	56.28	68.20	-11.92
5700.00	Peak	49.91	7.54	57.45	105.20	-47.75
5720.00	Peak	50.37	7.53	57.90	110.80	-52.90
5725.00	Peak	50.05	7.53	57.58	122.20	-64.62

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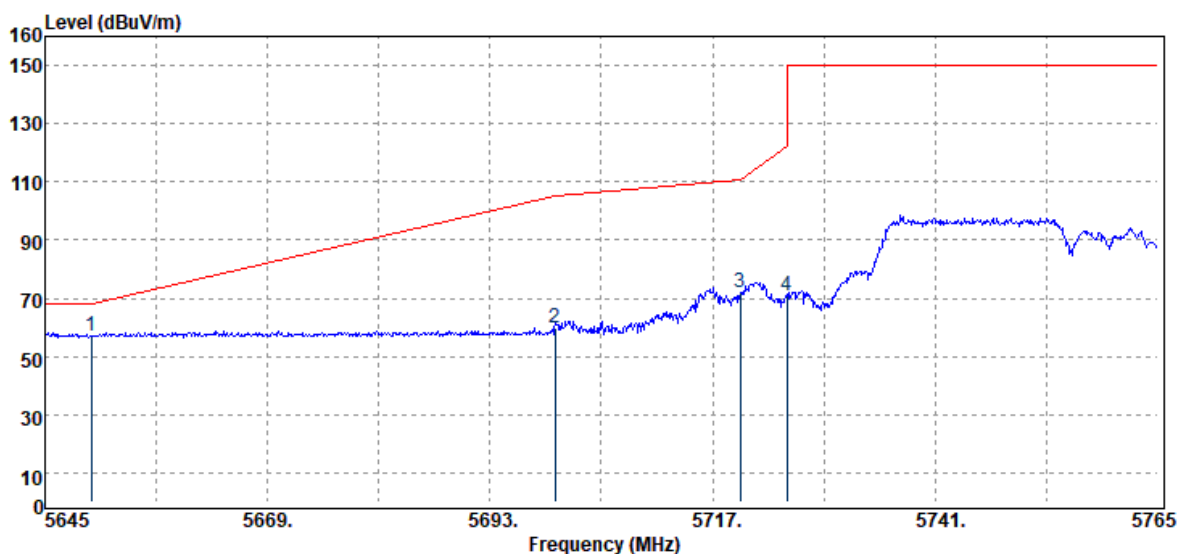
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Bandedge CH Low RU 242/61
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.09	7.02	57.11	68.20	-11.09
5700.00	Peak	52.29	7.54	59.83	105.20	-45.37
5720.00	Peak	64.19	7.53	71.72	110.80	-39.08
5725.00	Peak	63.59	7.53	71.12	122.20	-51.08

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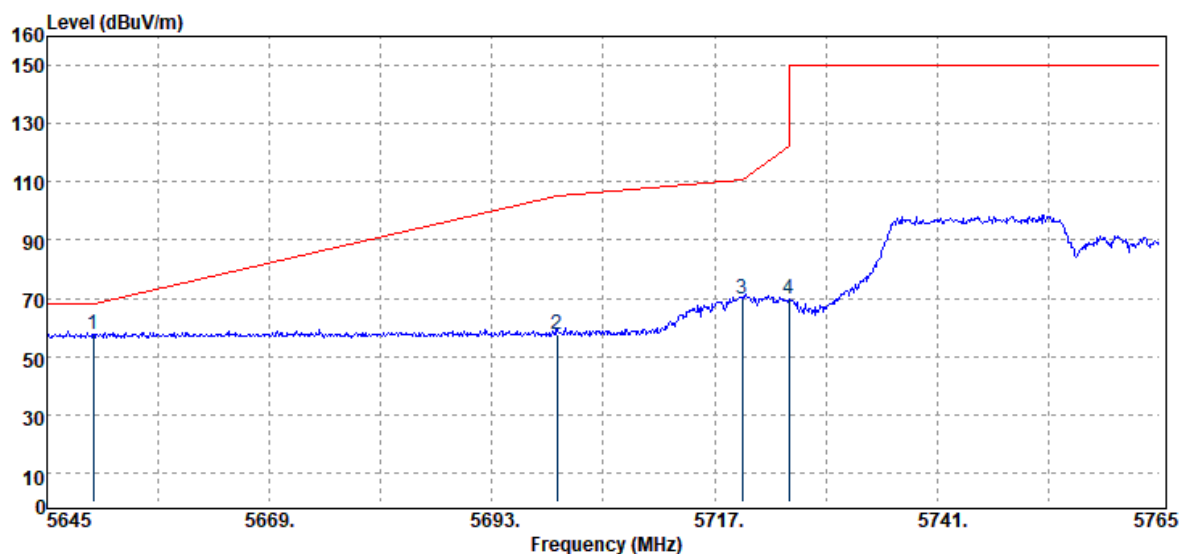
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5755 MHz
Test Mode :Bandedge CH Low RU 242/61
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.52	7.02	57.54	68.20	-10.66
5700.00	Peak	50.30	7.54	57.84	105.20	-47.36
5720.00	Peak	62.50	7.53	70.03	110.80	-40.77
5725.00	Peak	62.12	7.53	69.65	122.20	-52.55

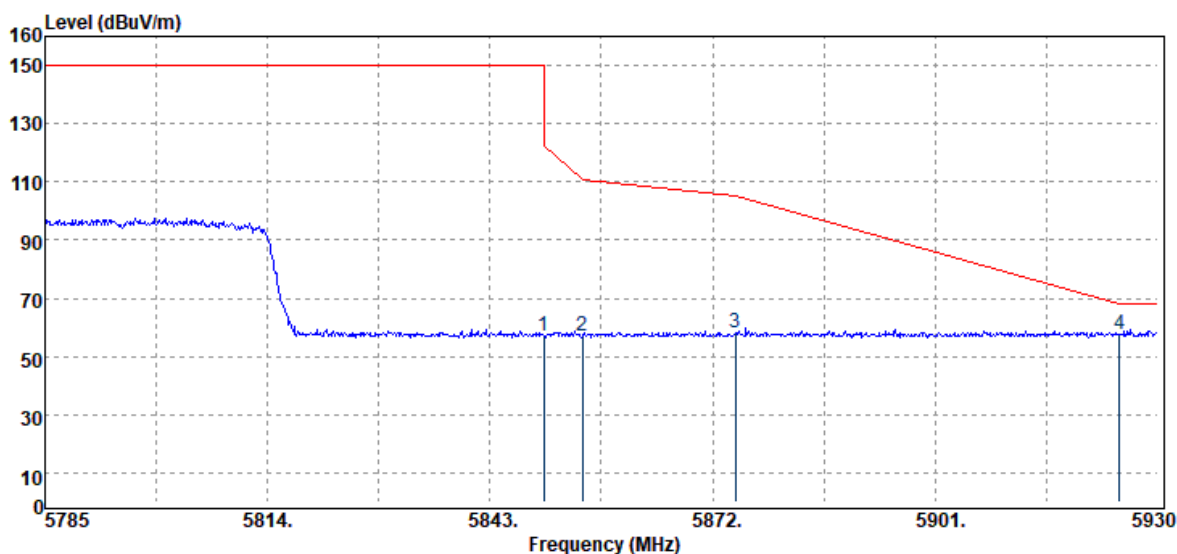
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.33	7.76	57.09	122.20	-65.11
5855.00	Peak	49.24	7.77	57.01	110.80	-53.79
5875.00	Peak	50.27	7.83	58.10	105.20	-47.10
5925.00	Peak	49.48	7.97	57.45	68.20	-10.75

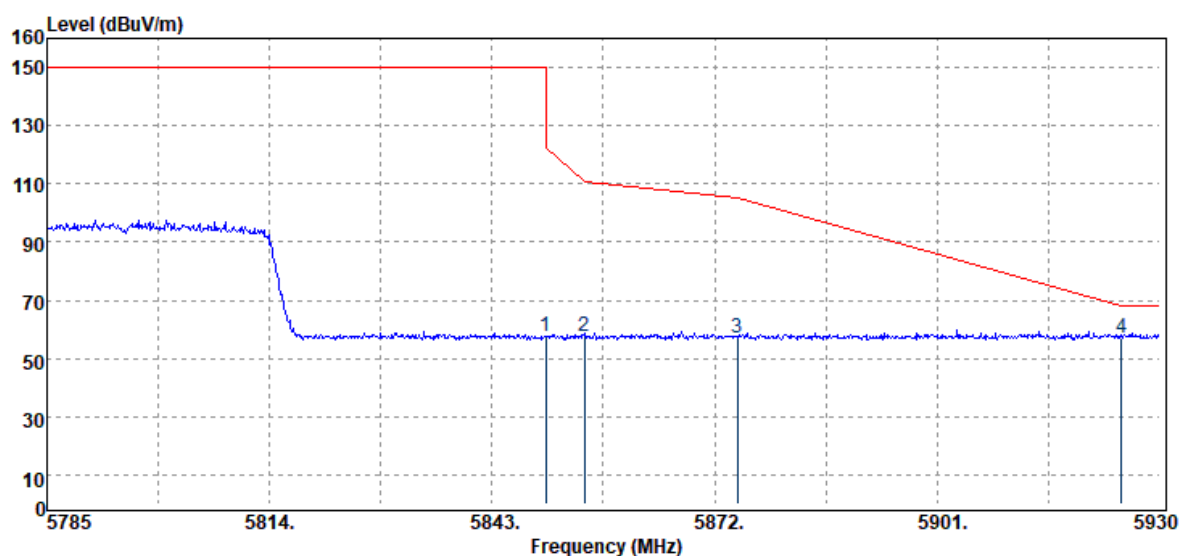
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	49.67	7.76	57.43	122.20	-64.77
5855.00	Peak	49.73	7.77	57.50	110.80	-53.30
5875.00	Peak	49.11	7.83	56.94	105.20	-48.26
5925.00	Peak	48.98	7.97	56.95	68.20	-11.25

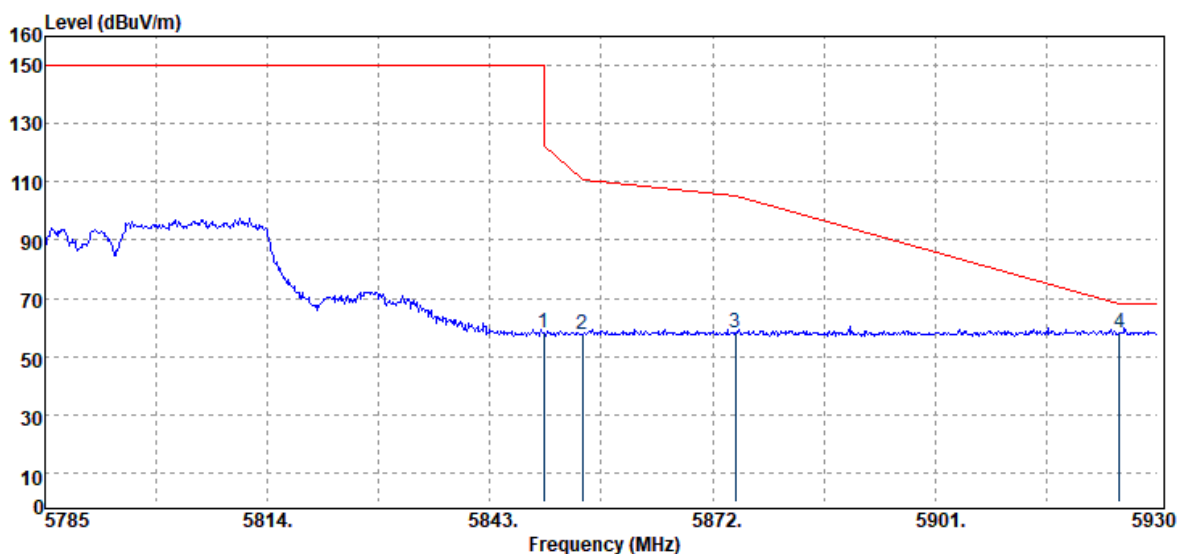
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Bandedge CH High RU 242/62
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.23	7.76	57.99	122.20	-64.21
5855.00	Peak	49.72	7.77	57.49	110.80	-53.31
5875.00	Peak	50.56	7.83	58.39	105.20	-46.81
5925.00	Peak	50.23	7.97	58.20	68.20	-10.00

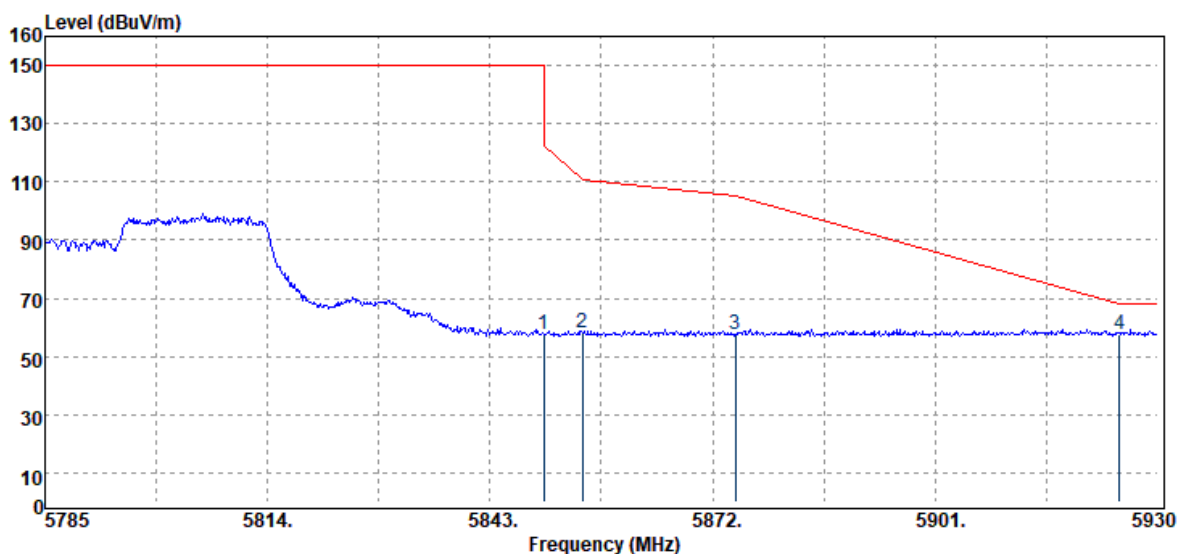
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE40B4
Test Channel :5795 MHz
Test Mode :Bandedge CH High RU 242/62
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.07	7.76	57.83	122.20	-64.37
5855.00	Peak	50.53	7.77	58.30	110.80	-52.50
5875.00	Peak	49.94	7.83	57.77	105.20	-47.43
5925.00	Peak	49.43	7.97	57.40	68.20	-10.80

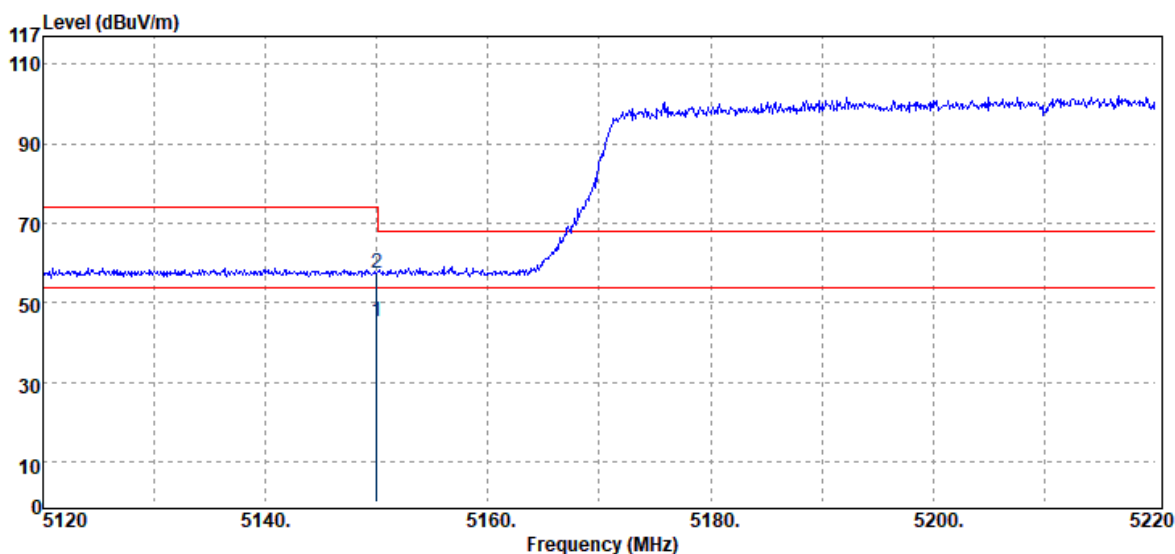
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	38.40	7.10	45.50	54.00	-8.50
5150.00	Peak	50.51	7.10	57.61	74.00	-16.39

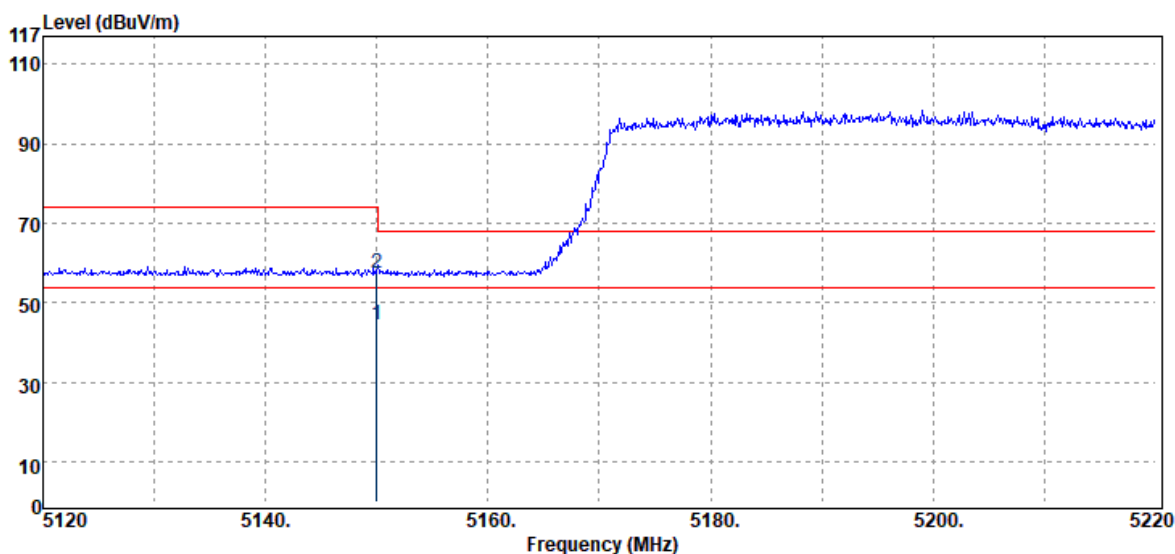
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	37.46	7.10	44.56	54.00	-9.44
5150.00	Peak	50.35	7.10	57.45	74.00	-16.55

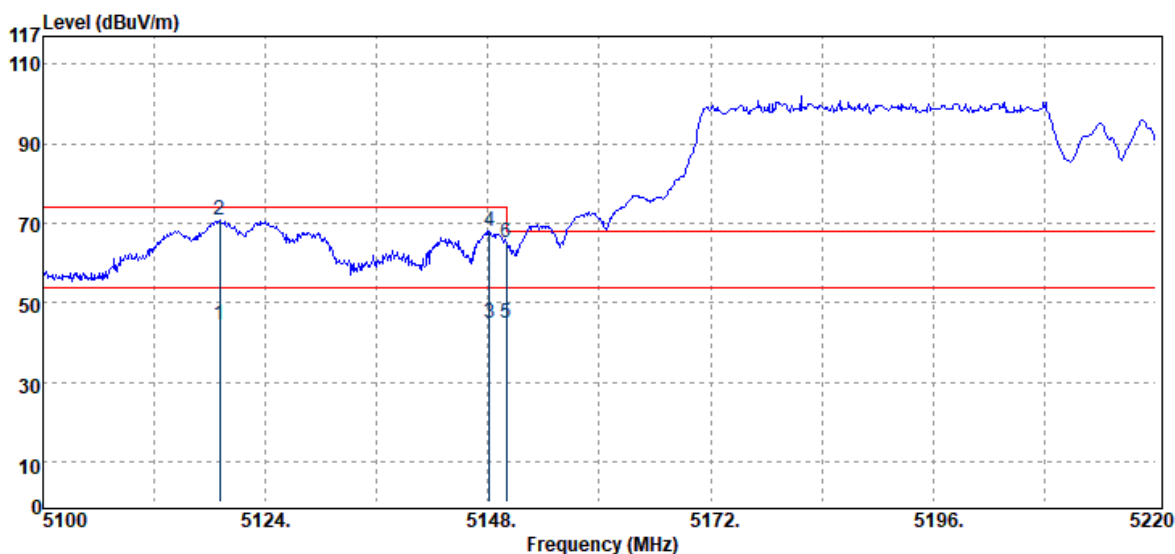
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5119.08	Average	37.38	7.30	44.68	54.00	-9.32
5119.08	Peak	63.69	7.30	70.99	74.00	-3.01
5148.12	Average	37.87	7.12	44.99	54.00	-9.01
5148.12	Peak	60.79	7.12	67.91	74.00	-6.09
5150.00	Average	37.92	7.10	45.02	54.00	-8.98
5150.00	Peak	57.98	7.10	65.08	74.00	-8.92

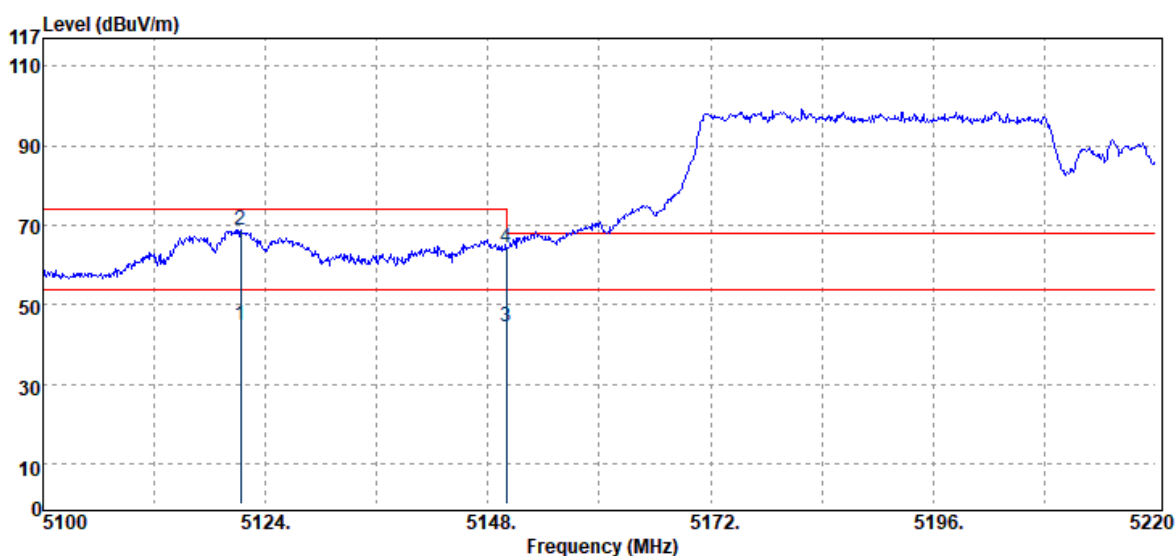
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B1
Test Channel :5210 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5121.36	Average	37.56	7.29	44.85	54.00	-9.15
5121.36	Peak	61.70	7.29	68.99	74.00	-5.01
5150.00	Average	37.43	7.10	44.53	54.00	-9.47
5150.00	Peak	57.34	7.10	64.44	74.00	-9.56

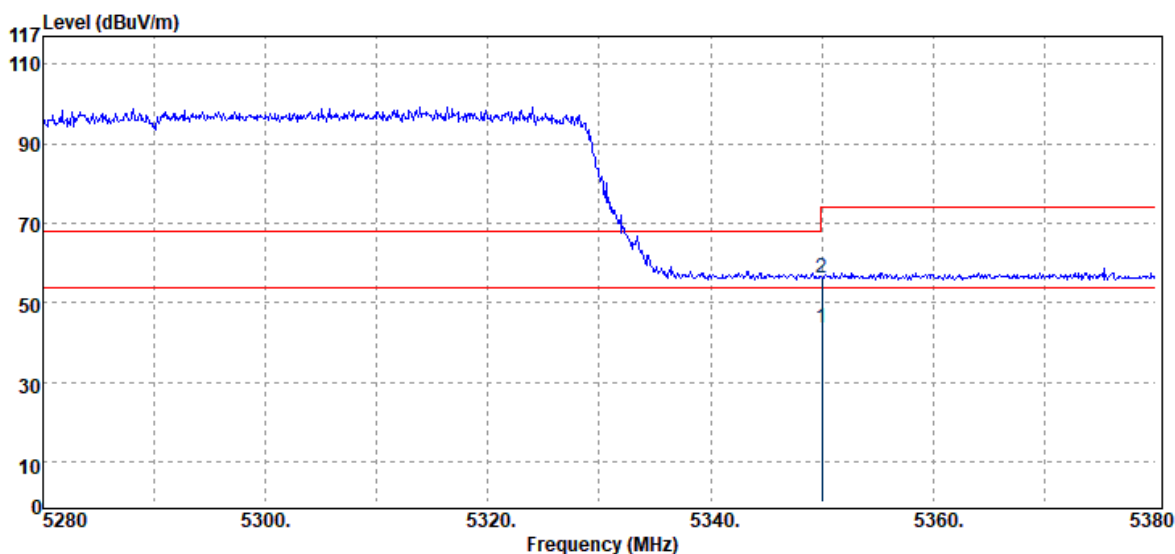
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B2
Test Channel :5290 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.63	6.21	43.84	54.00	-10.16
5350.00	Peak	50.00	6.21	56.21	74.00	-17.79

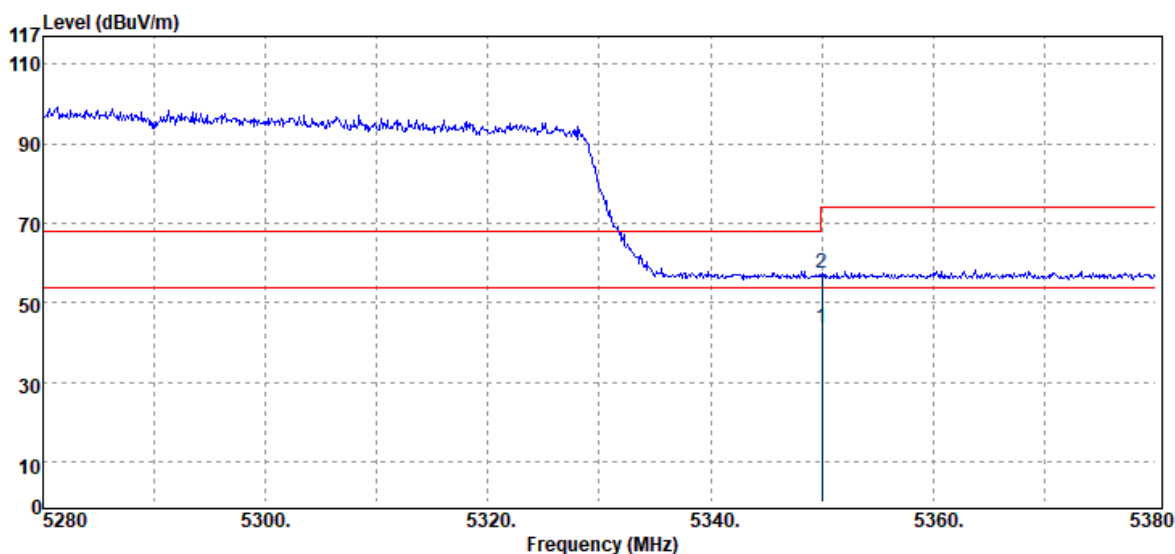
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B2
Test Channel :5290 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.61	6.21	43.82	54.00	-10.18
5350.00	Peak	51.35	6.21	57.56	74.00	-16.44

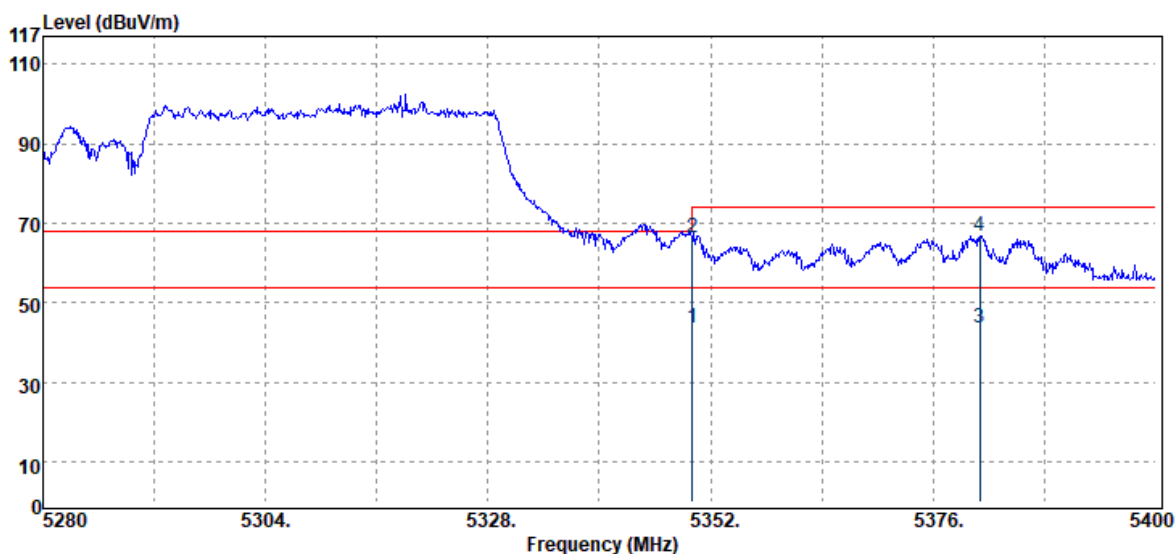
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B2
Test Channel :5290 MHz
Test Mode :Bandedge CH High RU 484/66
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.64	6.21	43.85	54.00	-10.15
5350.00	Peak	60.01	6.21	66.22	74.00	-7.78
5381.04	Average	37.51	6.29	43.80	54.00	-10.20
5381.04	Peak	60.45	6.29	66.74	74.00	-7.26

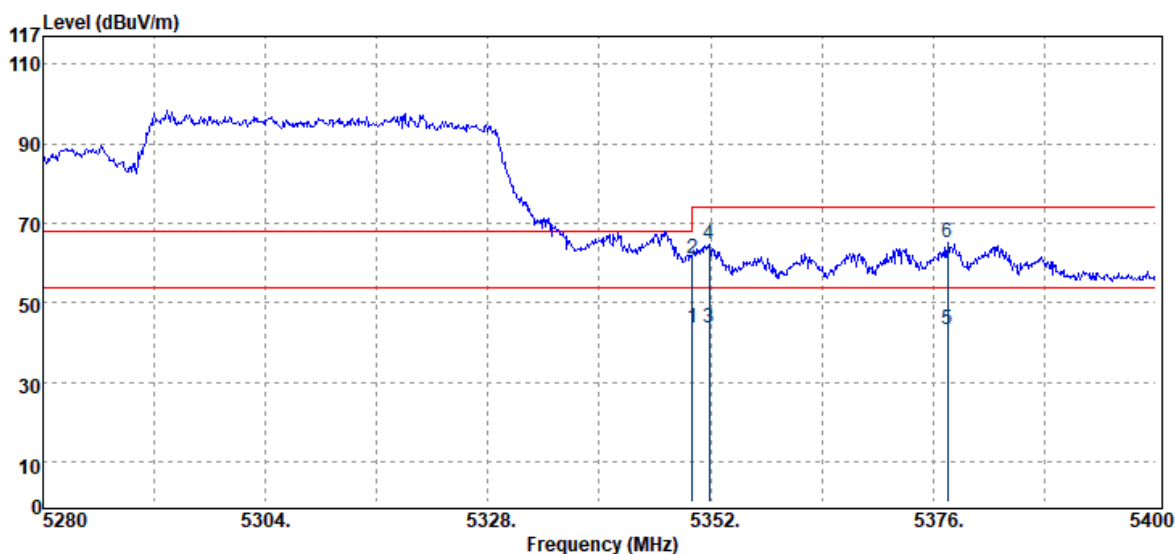
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Report Number :ER/2019/C0078
 Operation Mode :802.11ax HE80B2
 Test Channel :5290 MHz
 Test Mode :Bandedge CH High RU 484/66
 EUT Pol :E1 Plane

Test Date :2020-01-11
 Temp./Humi. :22.3/59
 Antenna Pol. :HORIZONTAL
 Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	37.64	6.21	43.85	54.00	-10.15
5350.00	Peak	55.06	6.21	61.27	74.00	-12.73
5351.88	Average	37.54	6.22	43.76	54.00	-10.24
5351.88	Peak	58.52	6.22	64.74	74.00	-9.26
5377.56	Average	37.17	6.28	43.45	54.00	-10.55
5377.56	Peak	59.05	6.28	65.33	74.00	-8.67

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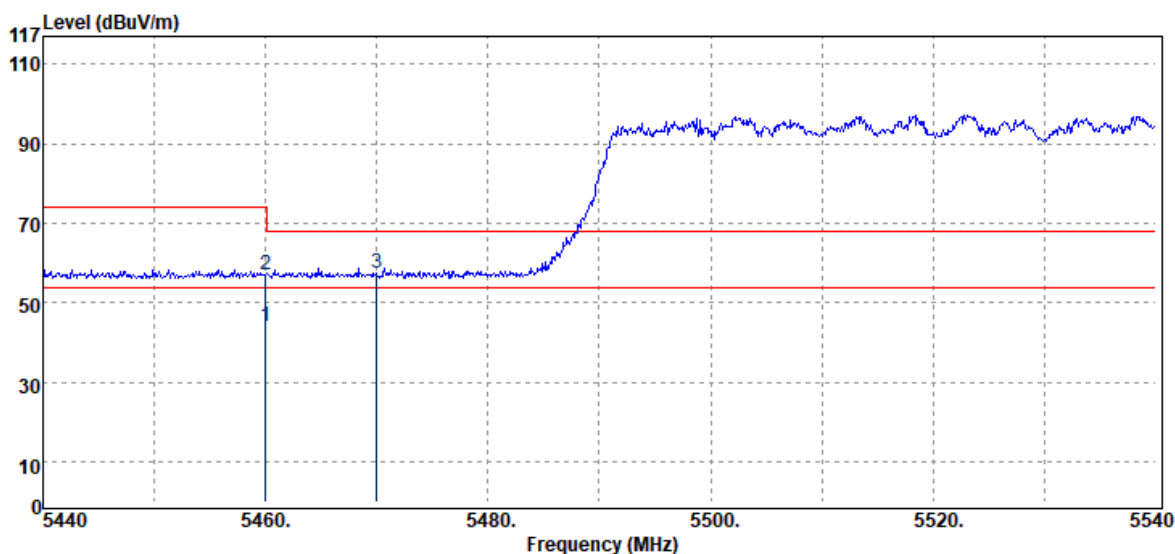
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5530 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.52	6.69	44.21	54.00	-9.79
5460.00	Peak	50.28	6.69	56.97	74.00	-17.03
5470.00	Peak	50.62	6.77	57.39	68.20	-10.81

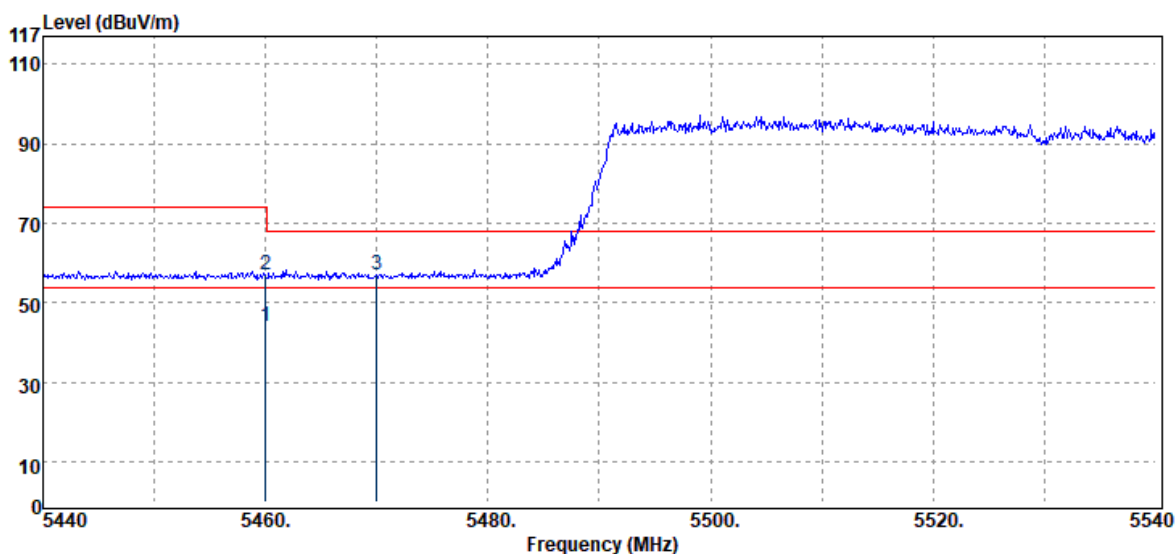
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5530 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Average	37.44	6.69	44.13	54.00	-9.87
5460.00	Peak	50.40	6.69	57.09	74.00	-16.91
5470.00	Peak	50.45	6.77	57.22	68.20	-10.98

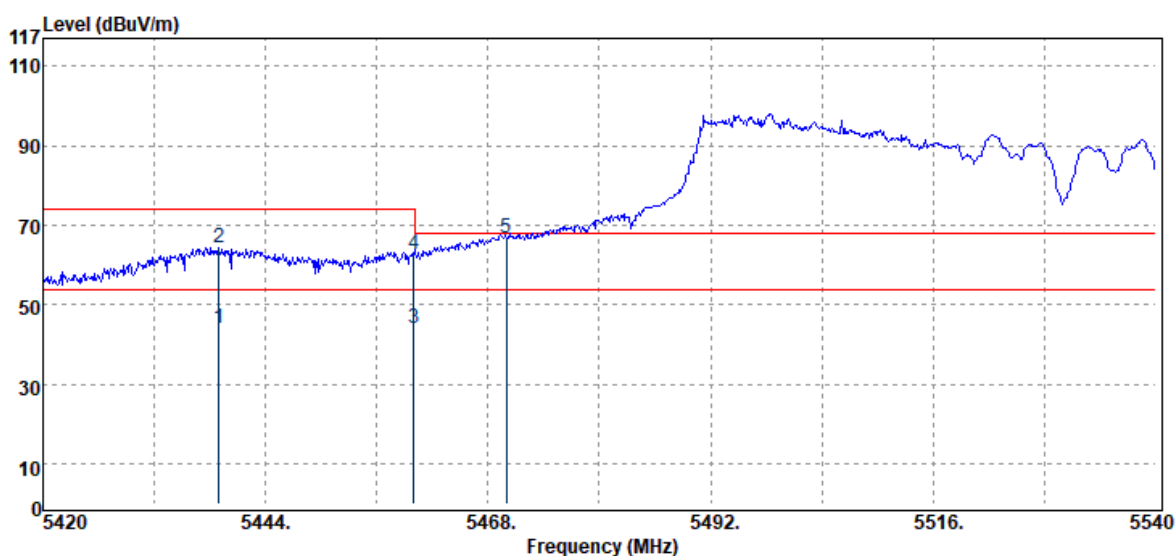
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5530 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5438.96	Average	37.42	6.56	43.98	54.00	-10.02
5438.96	Peak	57.75	6.56	64.31	74.00	-9.69
5460.00	Average	37.32	6.69	44.01	54.00	-9.99
5460.00	Peak	55.94	6.69	62.63	74.00	-11.37
5470.00	Peak	59.89	6.77	66.66	68.20	-1.54

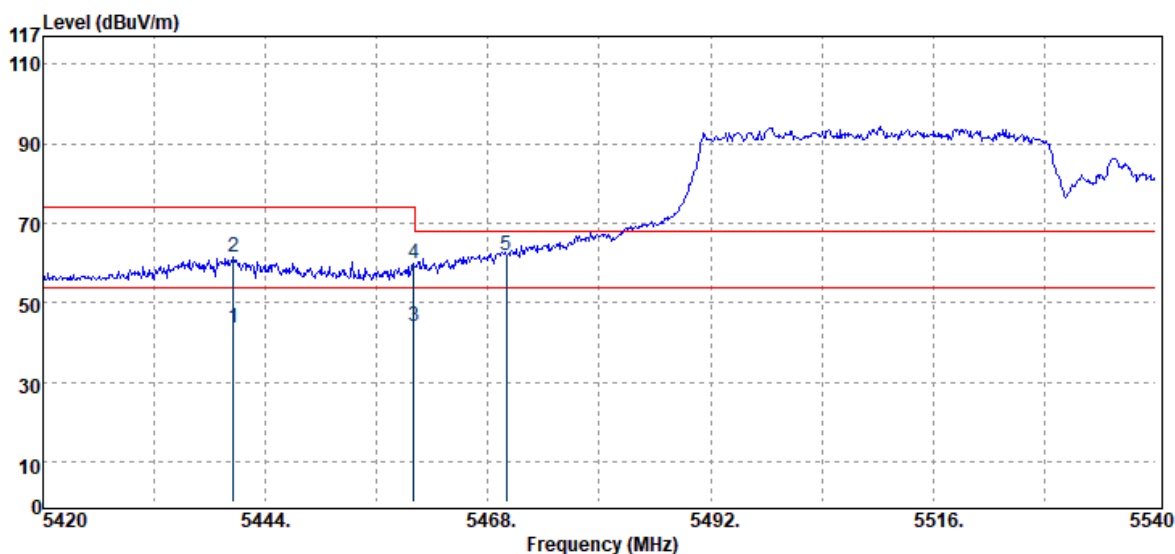
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B3
Test Channel :5530 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5440.52	Average	37.36	6.56	43.92	54.00	-10.08
5440.52	Peak	54.94	6.56	61.50	74.00	-12.50
5460.00	Average	37.31	6.69	44.00	54.00	-10.00
5460.00	Peak	53.41	6.69	60.10	74.00	-13.90
5470.00	Peak	55.13	6.77	61.90	68.20	-6.30

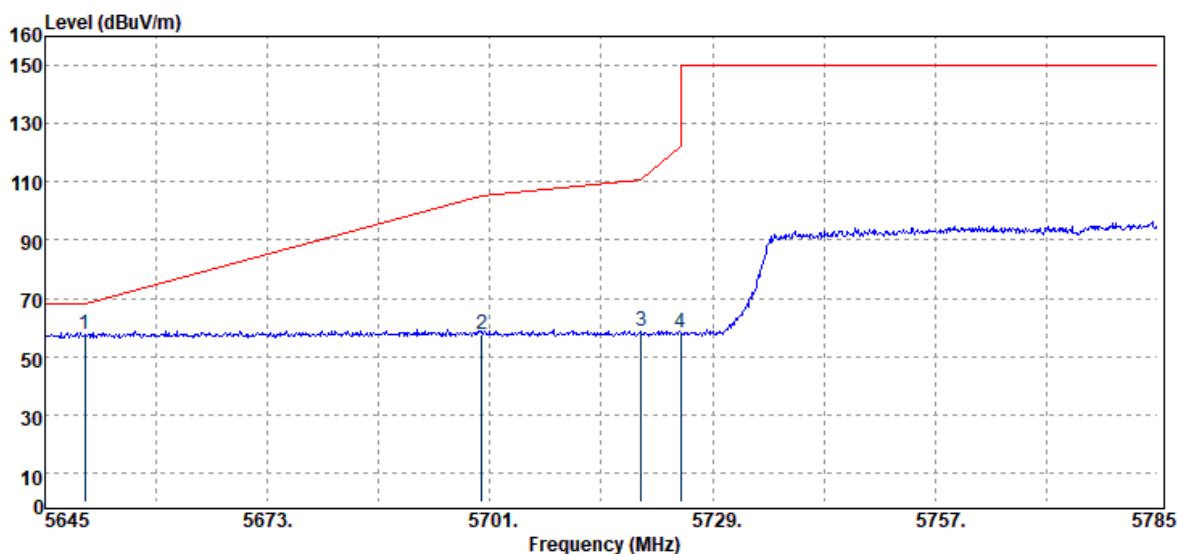
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	50.38	7.02	57.40	68.20	-10.80
5700.00	Peak	49.99	7.54	57.53	105.20	-47.67
5720.00	Peak	50.94	7.53	58.47	110.80	-52.33
5725.00	Peak	50.54	7.53	58.07	122.20	-64.13

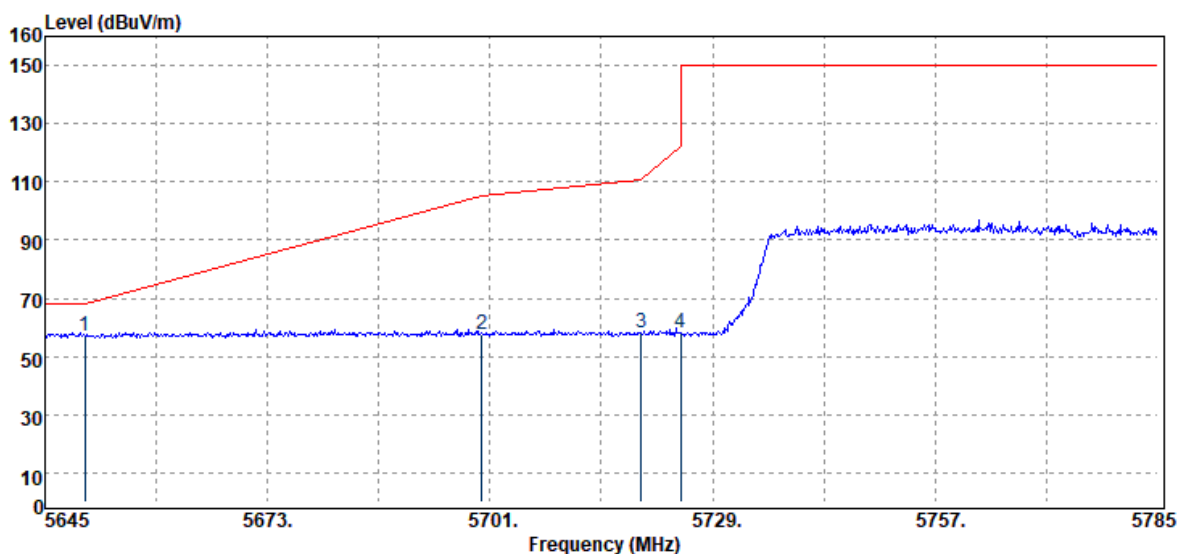
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.73	7.02	56.75	68.20	-11.45
5700.00	Peak	49.79	7.54	57.33	105.20	-47.87
5720.00	Peak	50.73	7.53	58.26	110.80	-52.54
5725.00	Peak	50.81	7.53	58.34	122.20	-63.86

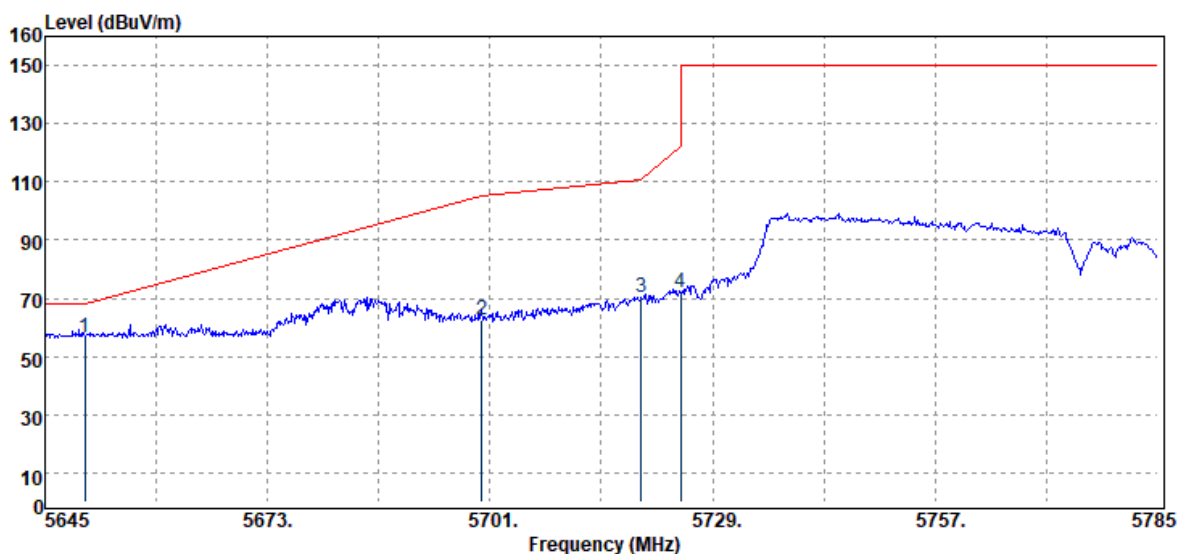
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU 484/66
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.63	7.02	56.65	68.20	-11.55
5700.00	Peak	55.20	7.54	62.74	105.20	-42.46
5720.00	Peak	62.65	7.53	70.18	110.80	-40.62
5725.00	Peak	64.22	7.53	71.75	122.20	-50.45

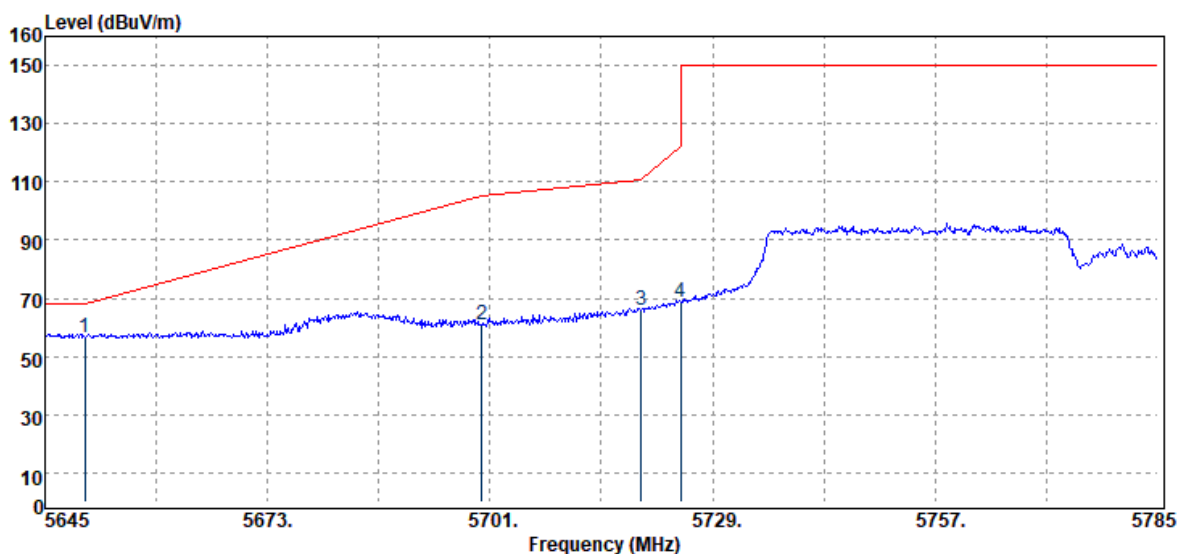
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU 484/66
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	49.58	7.02	56.60	68.20	-11.60
5700.00	Peak	53.63	7.54	61.17	105.20	-44.03
5720.00	Peak	58.30	7.53	65.83	110.80	-44.97
5725.00	Peak	61.32	7.53	68.85	122.20	-53.35

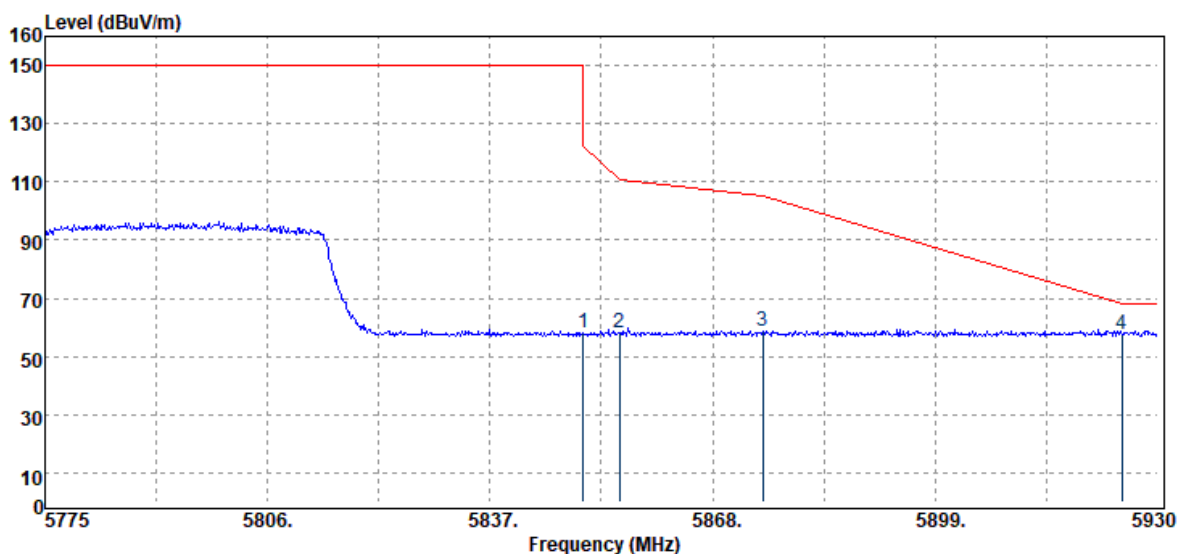
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.29	7.76	58.05	122.20	-64.15
5855.00	Peak	50.36	7.77	58.13	110.80	-52.67
5875.00	Peak	50.74	7.83	58.57	105.20	-46.63
5925.00	Peak	49.63	7.97	57.60	68.20	-10.60

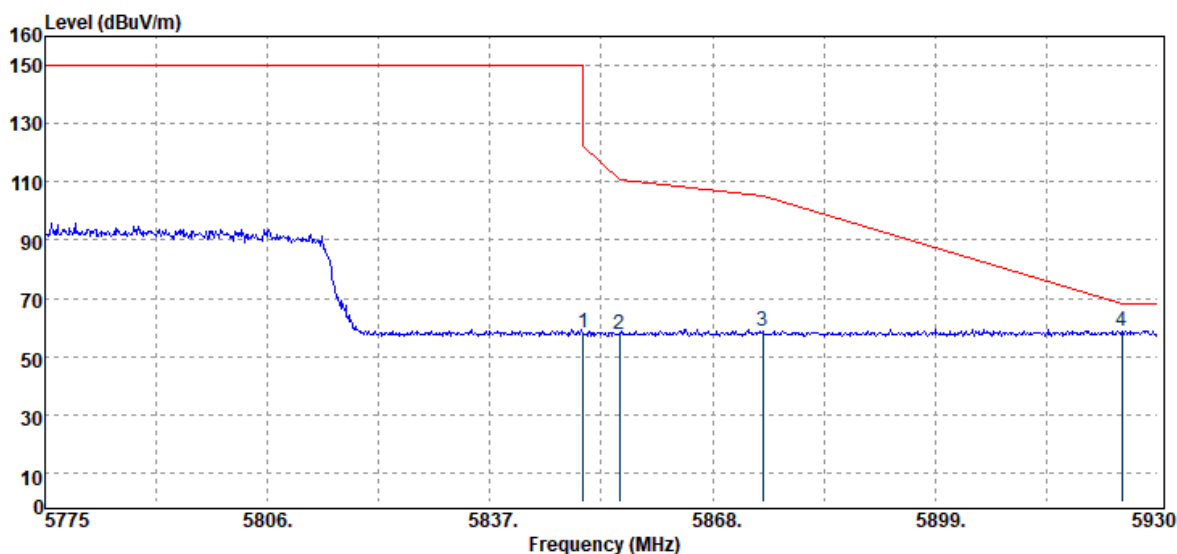
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH High RU full
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	50.14	7.76	57.90	122.20	-64.30
5855.00	Peak	49.92	7.77	57.69	110.80	-53.11
5875.00	Peak	50.79	7.83	58.62	105.20	-46.58
5925.00	Peak	50.50	7.97	58.47	68.20	-9.73

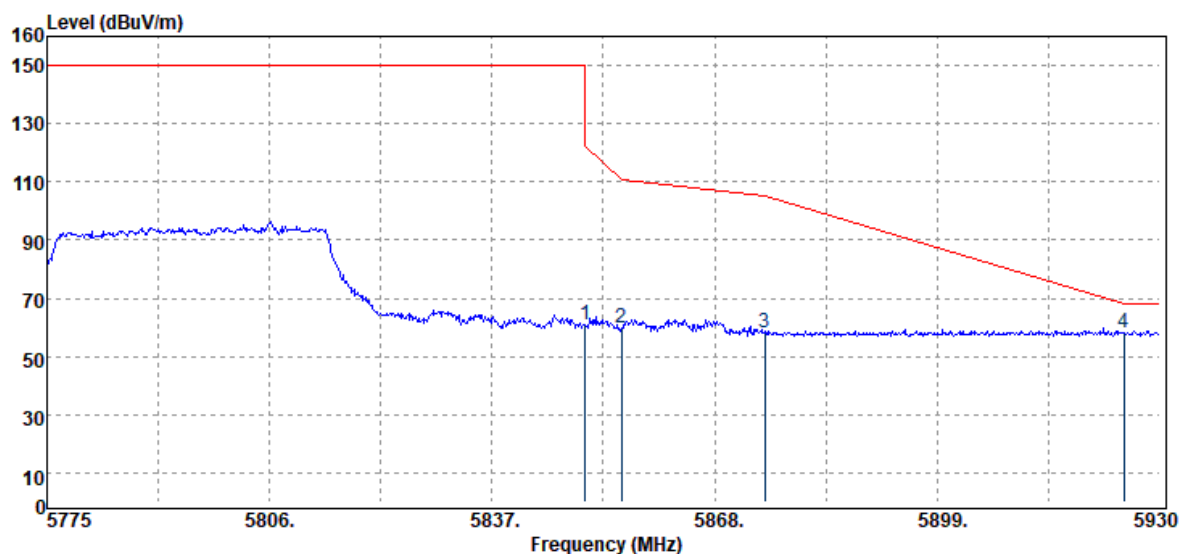
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	53.05	7.76	60.81	122.20	-61.39
5855.00	Peak	52.12	7.77	59.89	110.80	-50.91
5875.00	Peak	50.28	7.83	58.11	105.20	-47.09
5925.00	Peak	49.98	7.97	57.95	68.20	-10.25

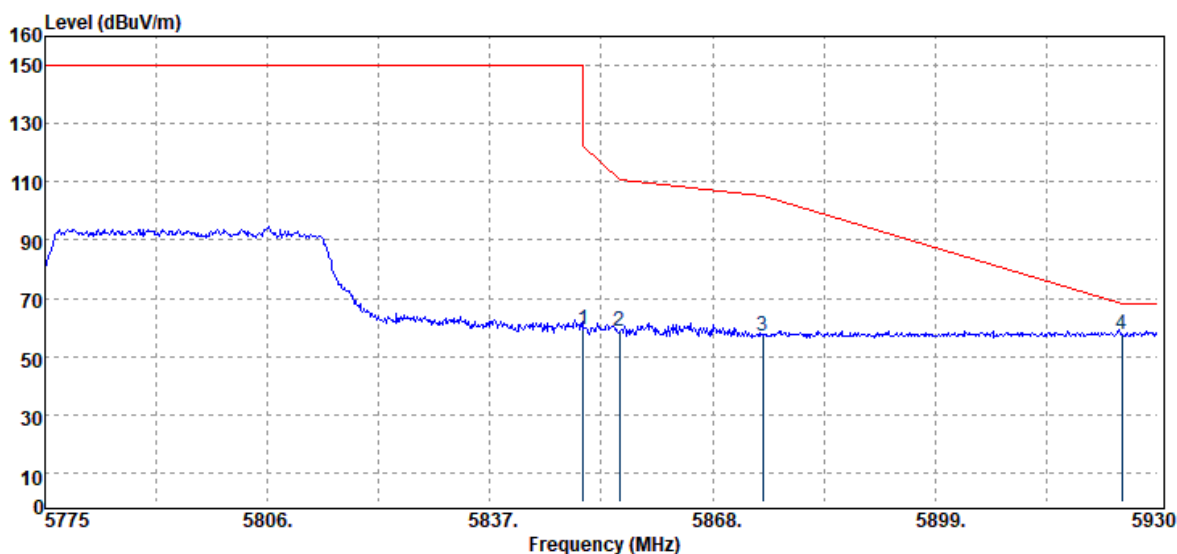
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Report Number :ER/2019/C0078
Operation Mode :802.11ax HE80B4
Test Channel :5775 MHz
Test Mode :Bandedge CH Low RU 484/65
EUT Pol :E1 Plane

Test Date :2020-01-11
Temp./Humi. :22.3/59
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	51.67	7.76	59.43	122.20	-62.77
5855.00	Peak	50.70	7.77	58.47	110.80	-52.33
5875.00	Peak	49.27	7.83	57.10	105.20	-48.10
5925.00	Peak	49.46	7.97	57.43	68.20	-10.77

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13. FREQUENCY STABILITY

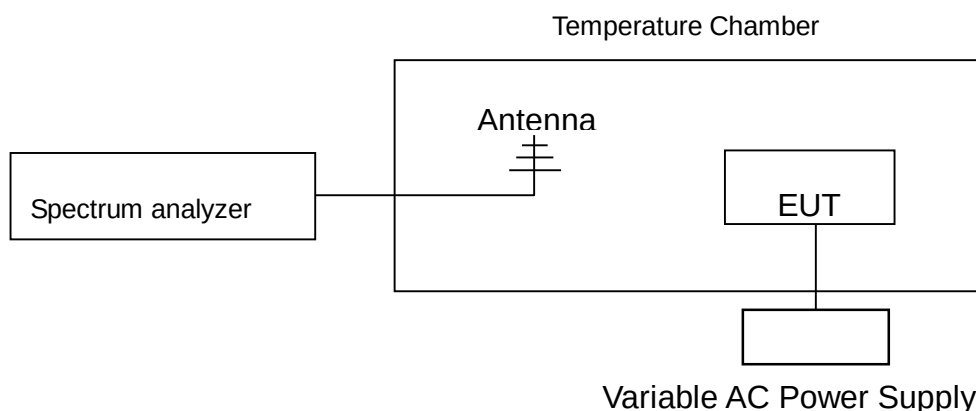
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2019	05/16/2020

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t (886-2) 2299-3279 f (886-2) 2298-0488

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2020.1.7
Temperature	: 25.4°C	Test By	Kevin
Humidity	:55 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,180.09300	-0.00001795
	3.7	36	5180	5,179.96200	0.00000734
25	3.85	36	5180	5,180.00100	-0.00000019
35	4	36	5180	5,180.03000	-0.00000579
	3.7	36	5180	5,179.91600	0.00001622

2 Minutes:

Operation Mode	802.11 a	Test Date	2020.1.7
Temperature	: 25.4°C	Test By	Kevin
Humidity	:55 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,179.91400	0.00001660
	3.7	36	5180	5,179.98900	0.00000212
25	3.85	36	5180	5,179.96800	0.00000618
35	4	36	5180	5,180.04400	-0.00000849
	3.7	36	5180	5,180.04900	-0.00000946

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5 Minutes:

Operation Mode	802.11 a	Test Date	2020.1.7
Temperature	: 25.4°C	Test By	Kevin
Humidity	:55 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,180.03300	-0.00000637
	3.7	36	5180	5,180.07500	-0.00001448
25	3.85	36	5180	5,179.99700	0.00000058
35	4	36	5180	5,180.02400	-0.00000463
	3.7	36	5180	5,180.01200	-0.00000232

10 Minutes:

Operation Mode	802.11 a	Test Date	2020.1.7
Temperature	: 25.4°C	Test By	Kevin
Humidity	:55 %		

Test Temp.(°C)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
5	4	36	5180	5,179.98500	0.00000290
	3.7	36	5180	5,179.98300	0.00000328
25	3.85	36	5180	5,180.05300	-0.00001023
35	4	36	5180	5,180.05000	-0.00000965
	3.7	36	5180	5,180.02400	-0.00000463

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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