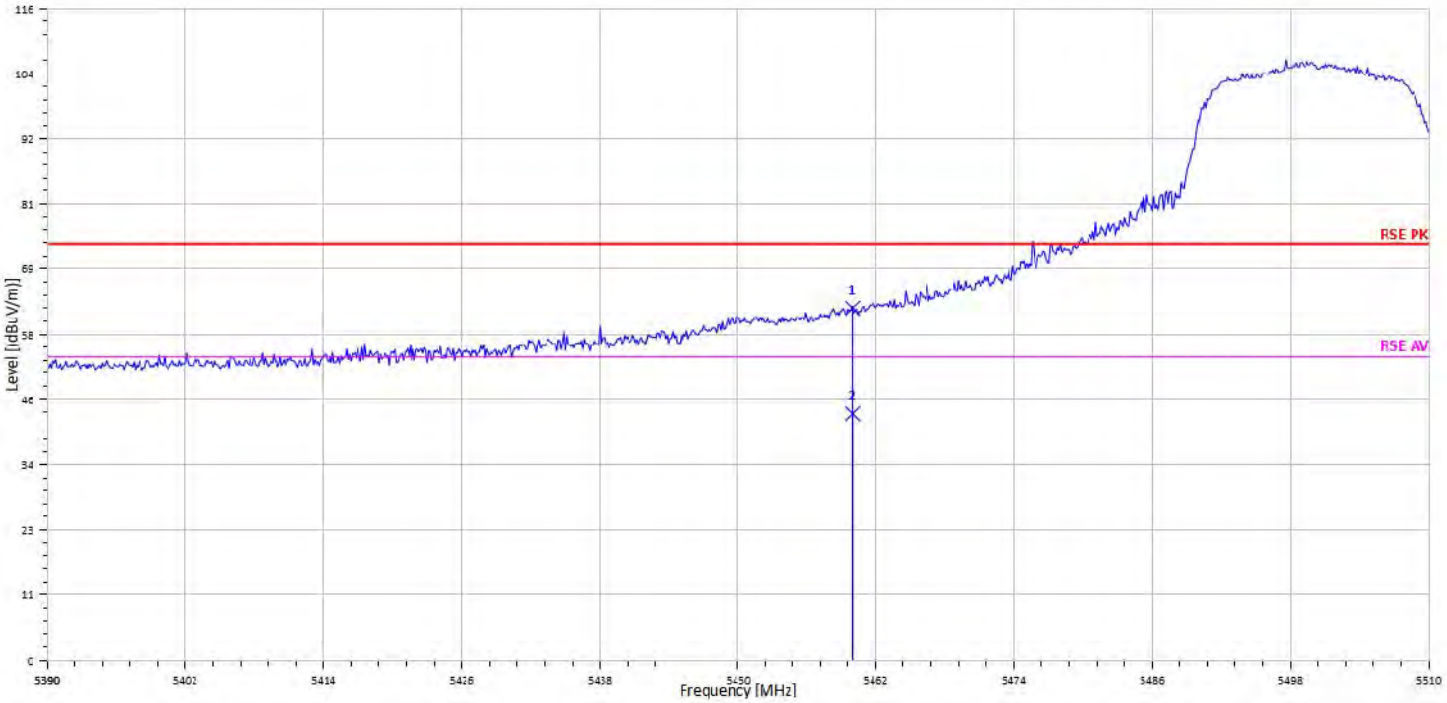
Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5460.00	E	Peak	62.56	0.06	62.62	74	-11.38
5460.00	E	Average	43.80	0.06	43.85	54	-10.15

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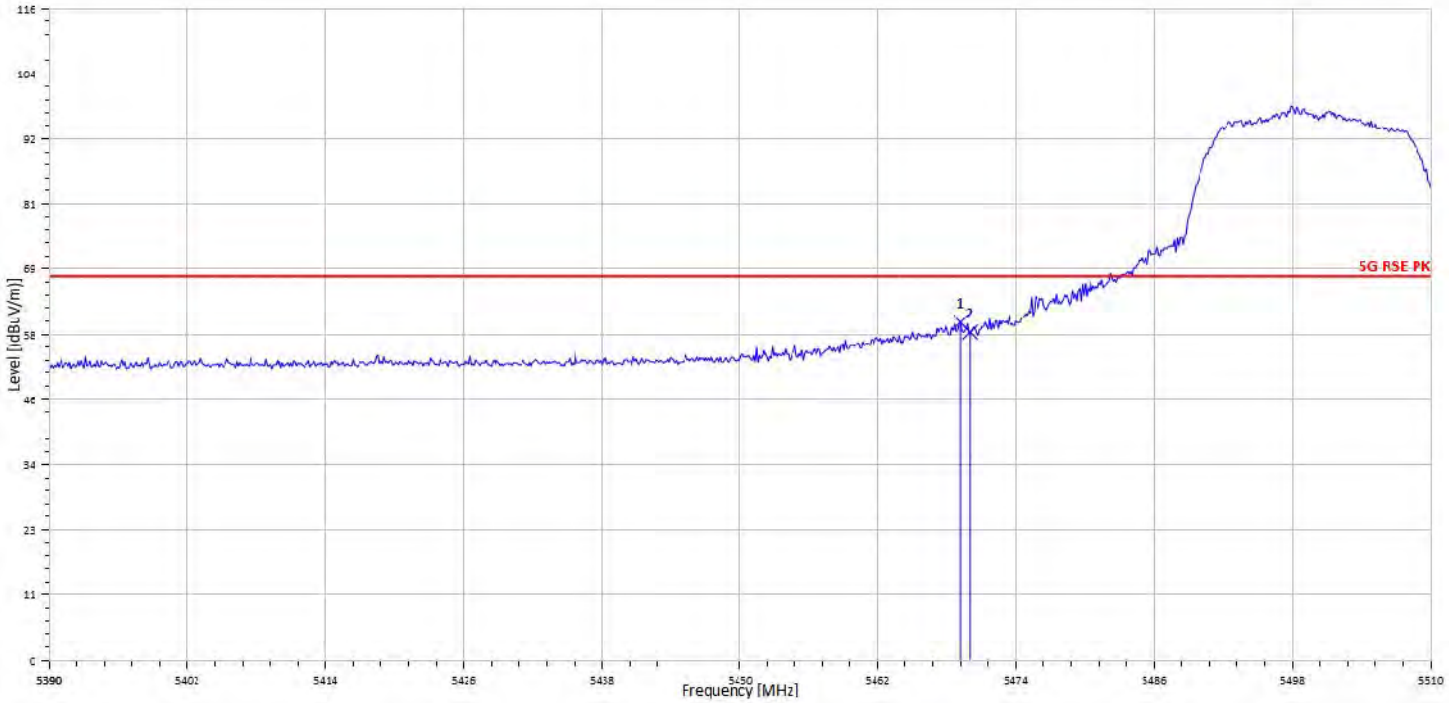
Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5469.20	S	Peak	60.05	0.08	60.13	68.3	-8.17
5470.00	E	Peak	58.29	0.08	58.37	68.3	-9.93

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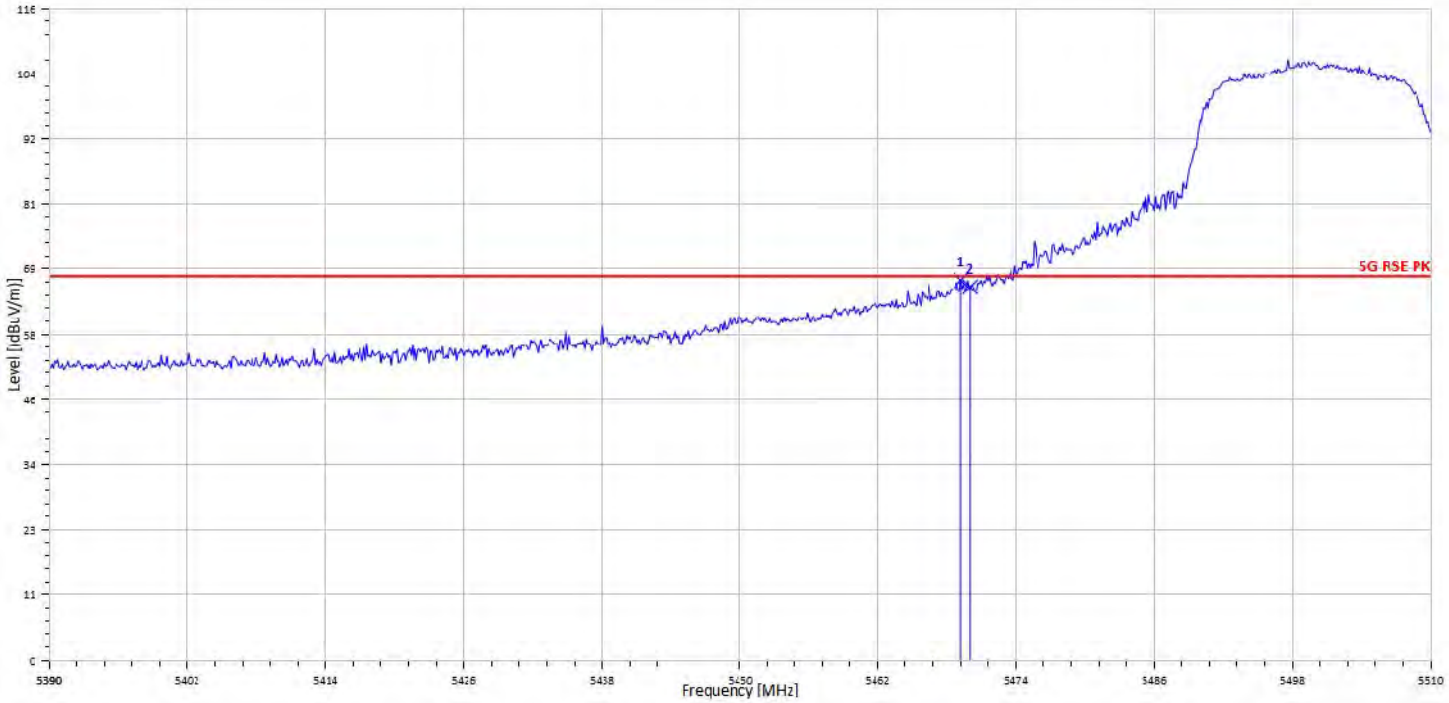
Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5469.20	S	Peak	67.50	0.08	67.58	68.3	-0.72
5470.00	E	Peak	66.30	0.08	66.38	68.3	-1.92

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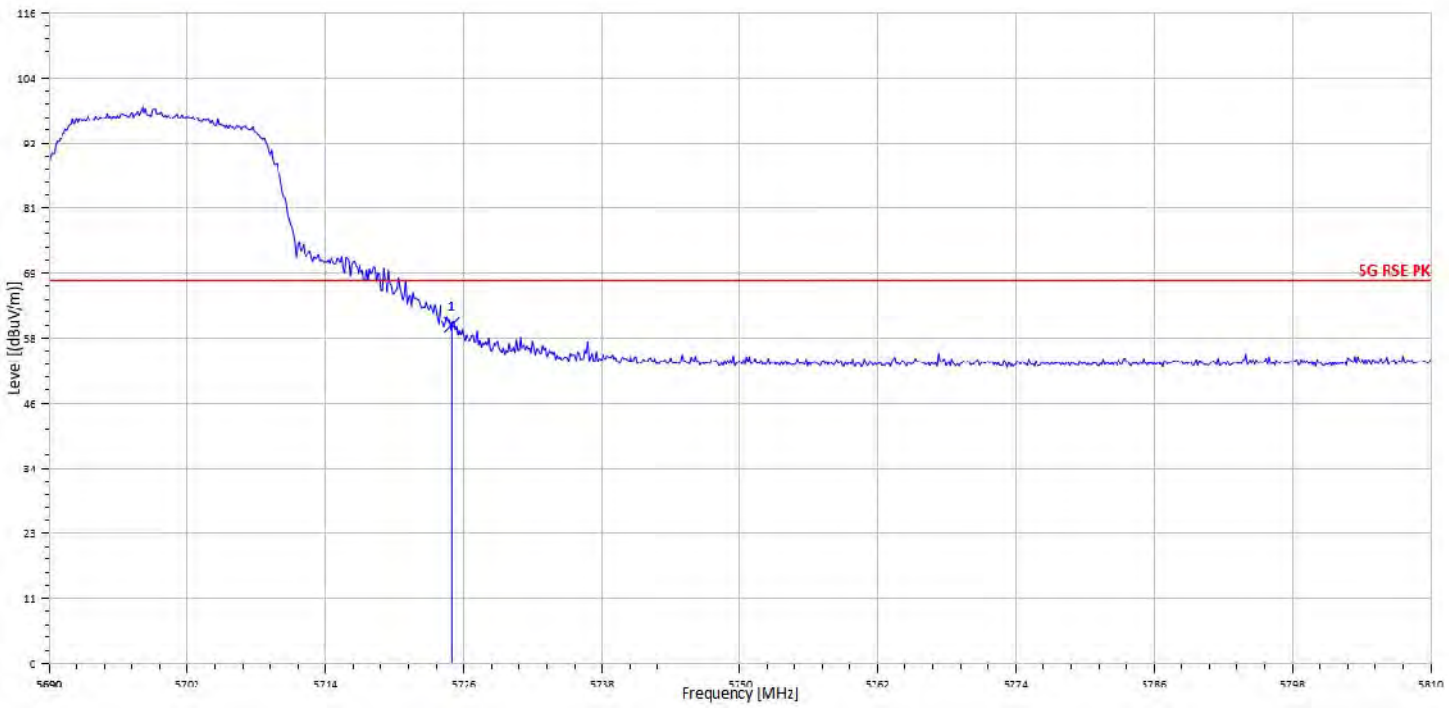
Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	59.73	0.69	60.41	68.3	-7.89

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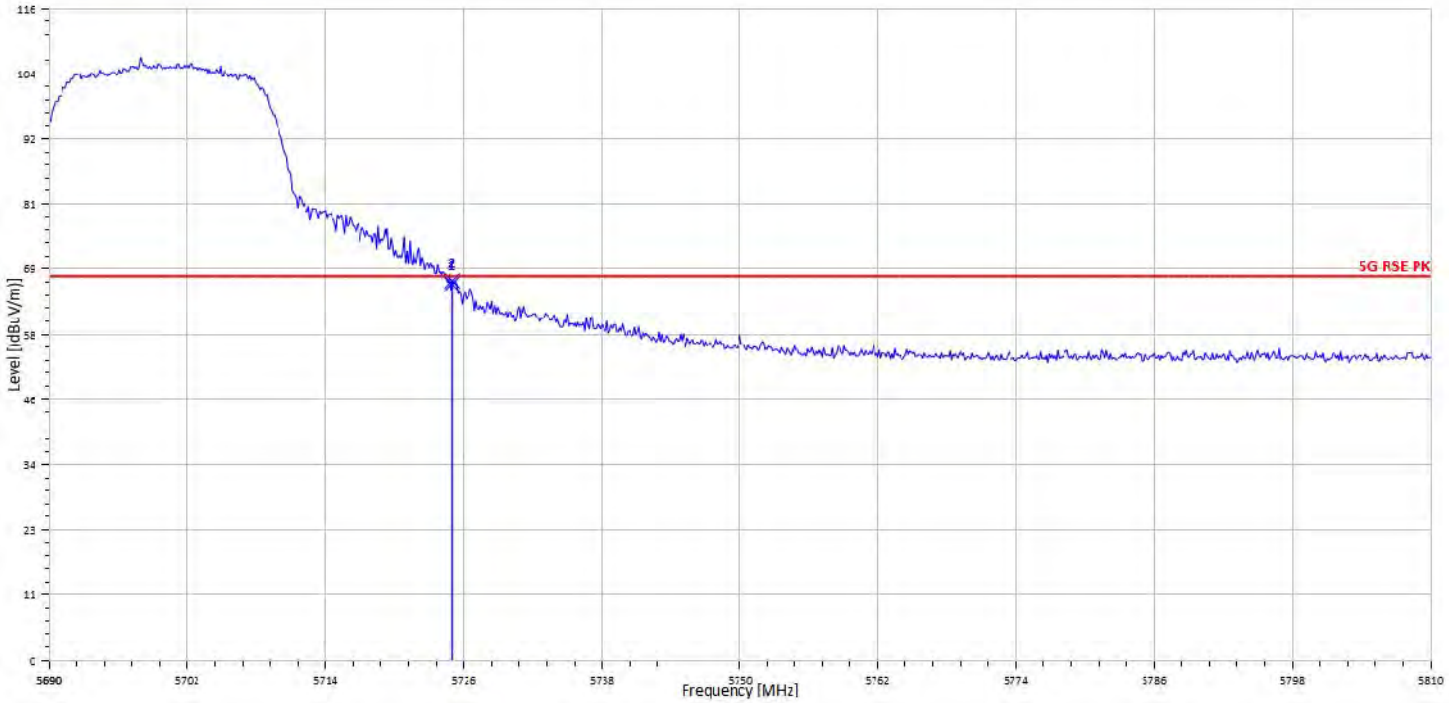
Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	E	Peak	66.22	0.69	66.90	68.3	-1.40
5725.04	S	Peak	66.80	0.69	67.48	68.3	-0.82

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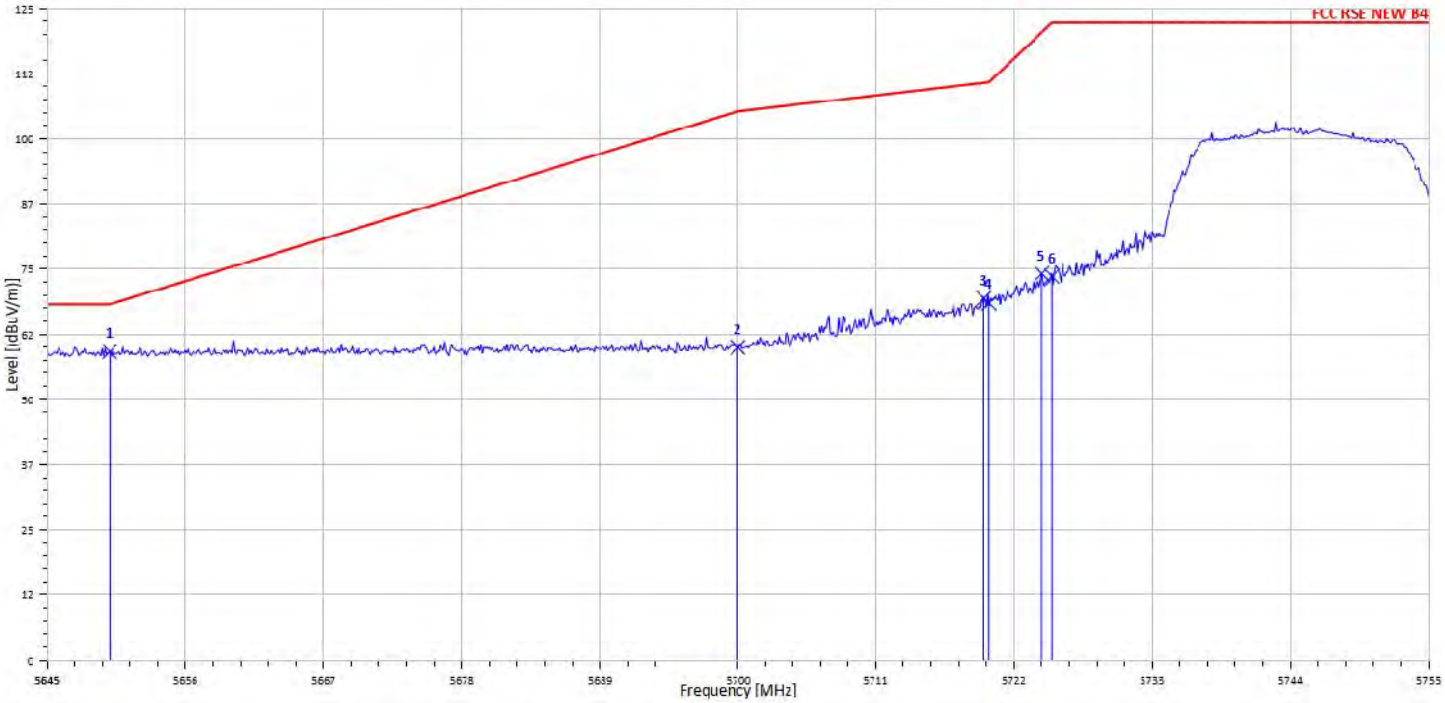
Operation Mode :	802.11n20B4	Test Date :	2017/10/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	58.52	0.63	59.15	68.23	-9.08
5700.00	S	Peak	59.44	0.56	60.00	105.23	-45.23
5719.58	S	Peak	68.69	0.66	69.35	110.7124	-41.37
5720.00	S	Peak	67.83	0.66	68.49	110.83	-42.34
5724.20	S	Peak	73.44	0.68	74.12	120.4064	-46.29
5725.00	E	Peak	72.93	0.69	73.62	122.23	-48.61

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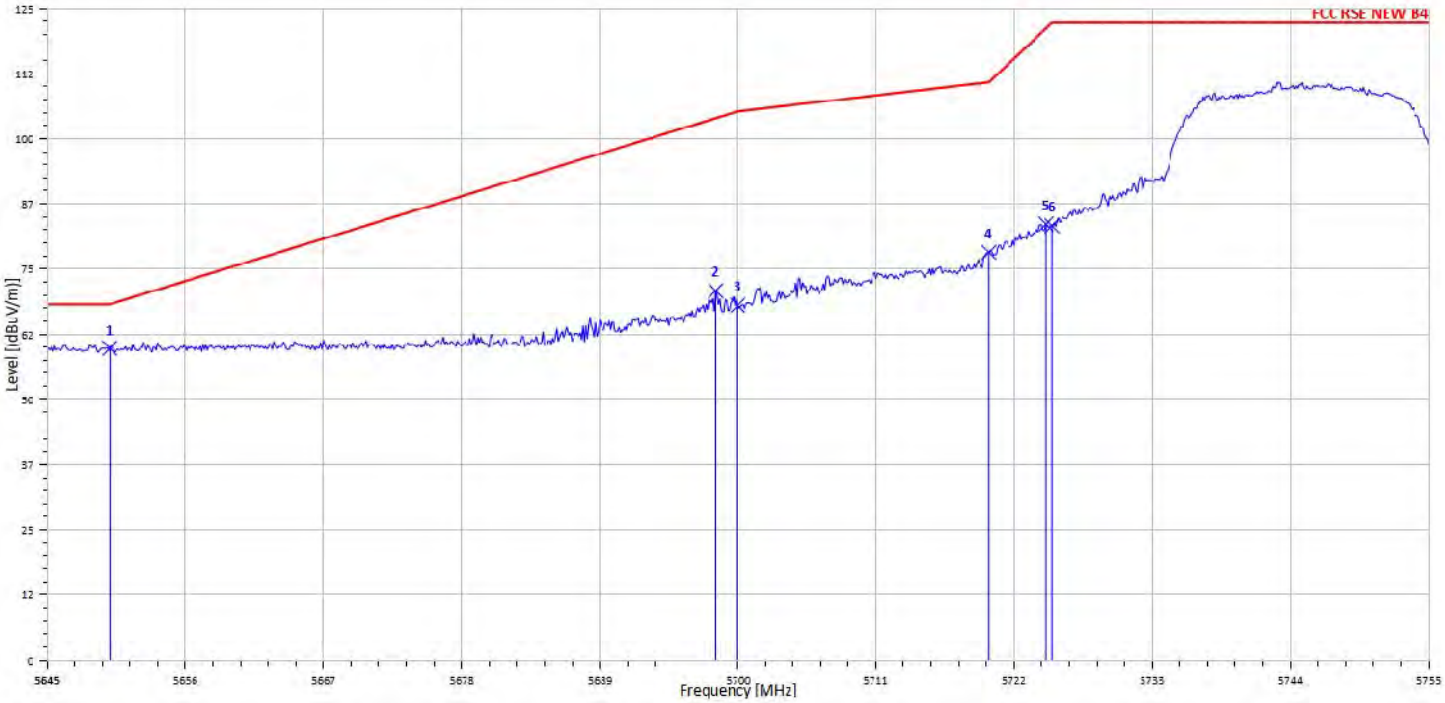
Operation Mode :	802.11n20B4	Test Date :	2017/10/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	59.17	0.63	59.80	68.23	-8.43
5698.24	S	Peak	70.28	0.56	70.84	103.9278	-33.09
5700.00	S	Peak	67.49	0.56	68.05	105.23	-37.18
5720.00	S	Peak	77.52	0.66	78.18	110.83	-32.65
5724.53	S	Peak	82.94	0.68	83.62	121.1579	-37.54
5725.00	E	Peak	82.62	0.69	83.30	122.23	-38.93

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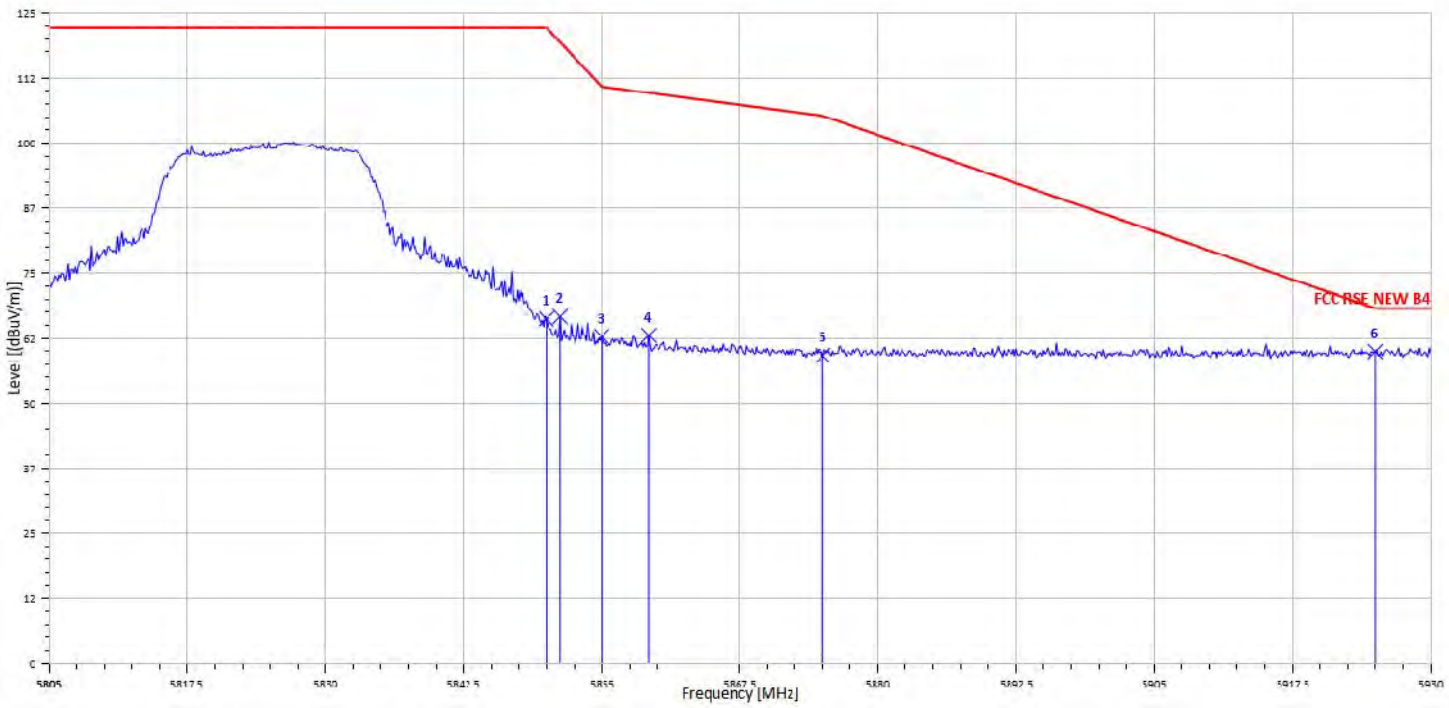
Operation Mode :	802.11n20B4	Test Date :	2017/10/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	65.17	1.01	66.18	122.23	-56.05
5851.25	S	Peak	65.65	1.01	66.66	119.38	-52.72
5855.00	S	Peak	61.82	1.01	62.83	110.83	-48.00
5859.25	S	Peak	62.05	1.00	63.05	109.64	-46.59
5875.00	S	Peak	58.17	0.99	59.16	105.23	-46.07
5925.00	S	Peak	58.85	1.04	59.89	68.23	-8.34

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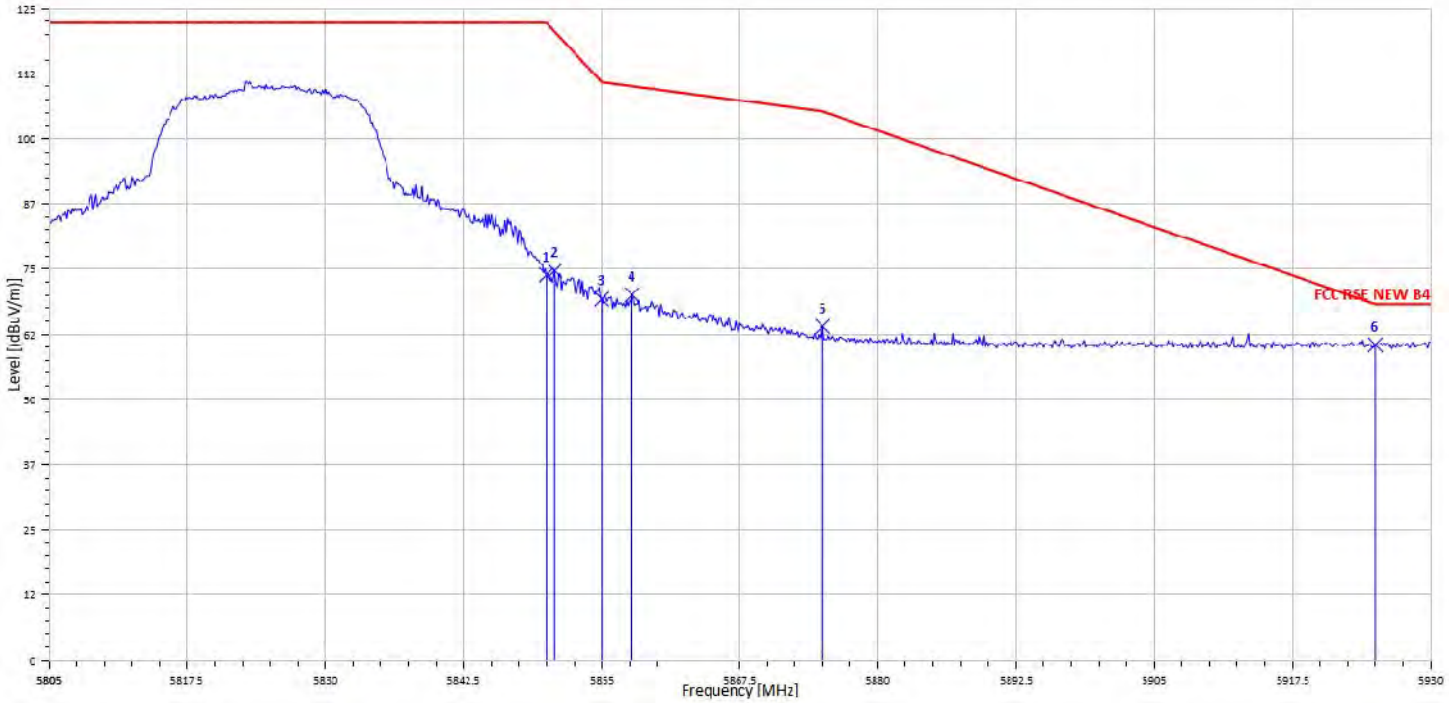
Operation Mode :	802.11n20B4	Test Date :	2017/10/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	72.85	1.01	73.86	122.23	-48.37
5850.75	S	Peak	73.67	1.01	74.68	120.52	-45.84
5855.00	S	Peak	68.22	1.01	69.22	110.83	-41.61
5857.75	S	Peak	69.05	1.00	70.06	110.06	-40.00
5875.00	S	Peak	62.99	0.99	63.98	105.23	-41.25
5925.00	S	Peak	59.42	1.04	60.46	68.23	-7.77

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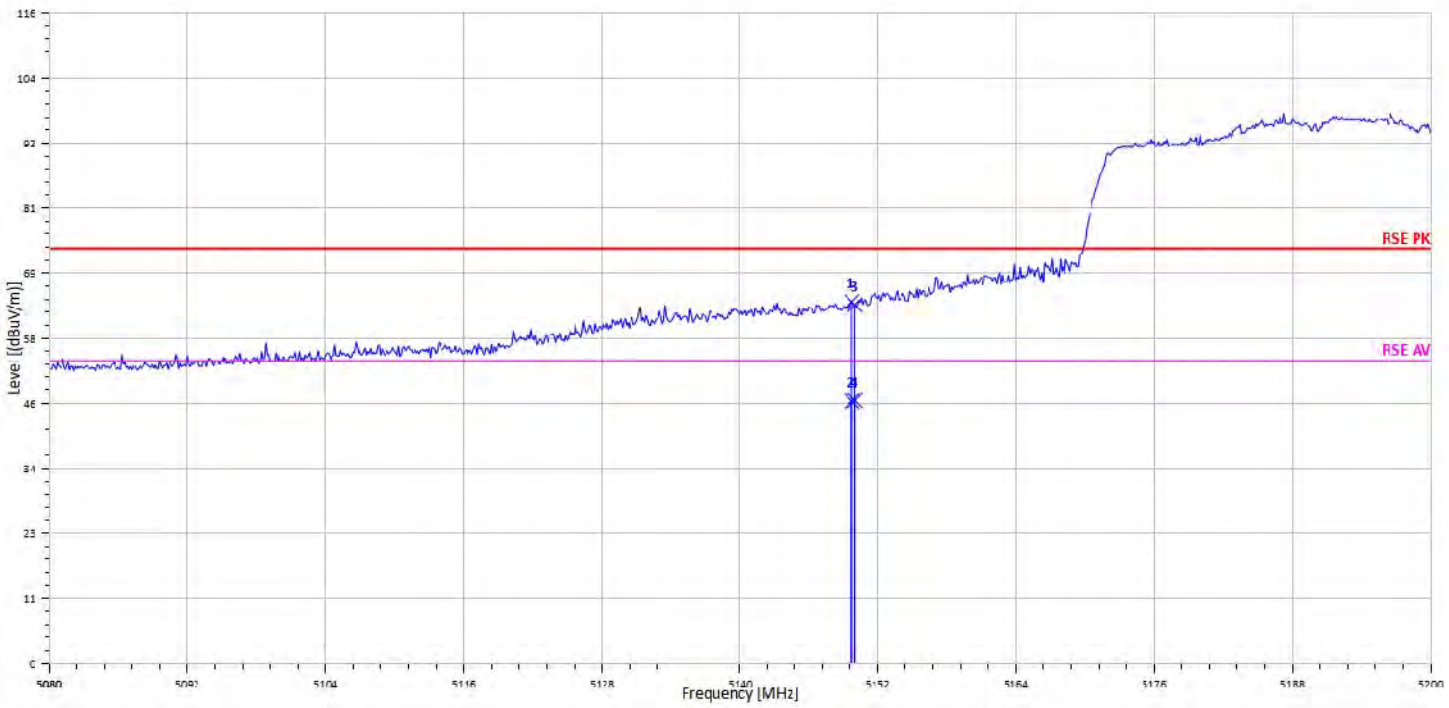
802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2017/10/6
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5149.72	S	Peak	64.64	-0.17	64.47	74	-9.53
5149.72	S	Average	46.95	-0.17	46.78	54	-7.22
5150.00	E	Peak	64.13	-0.17	63.96	74	-10.04
5150.00	E	Average	47.07	-0.17	46.90	54	-7.11

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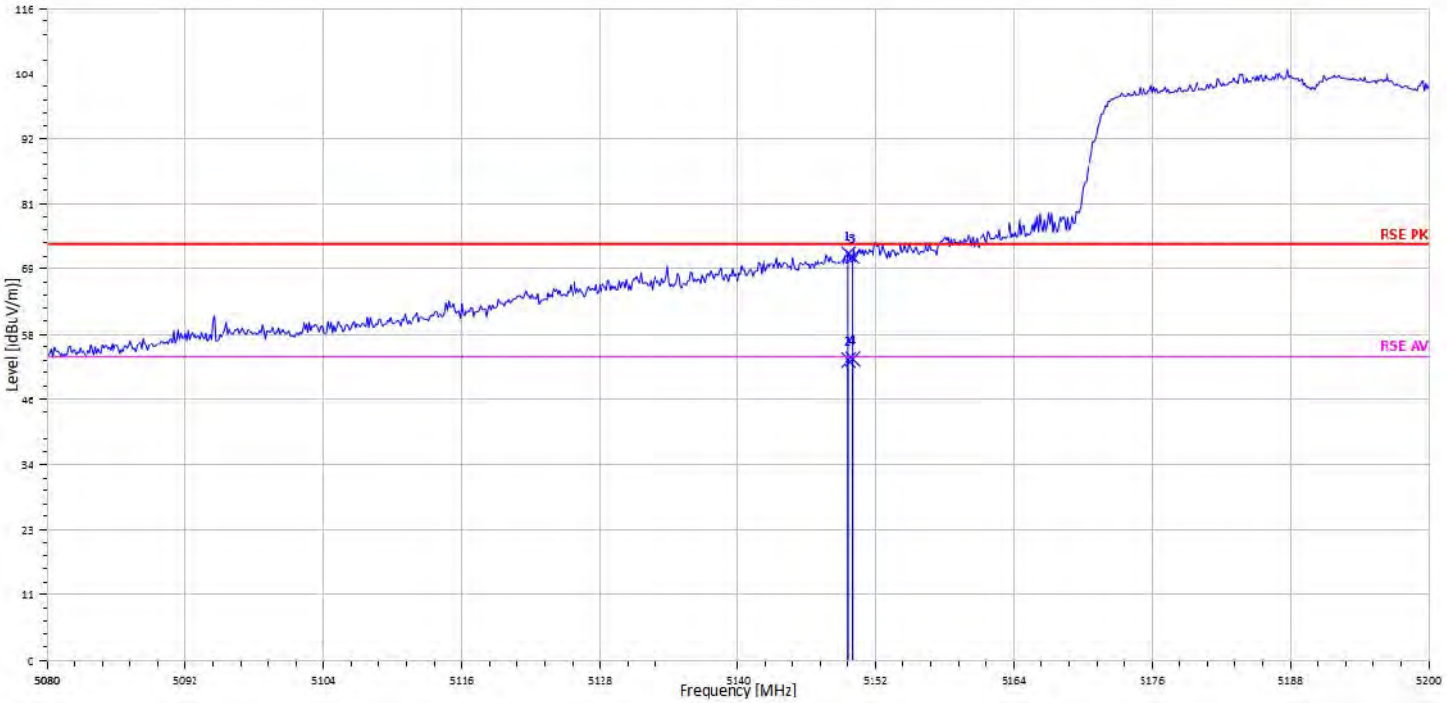
Operation Mode :	802.11n40B1	Test Date :	2017/10/6
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.60	S	Peak	72.44	-0.17	72.27	74	-1.73
5149.60	S	Average	53.57	-0.17	53.40	54	-0.60
5150.00	E	Peak	71.97	-0.17	71.80	74	-2.20
5150.00	E	Average	53.75	-0.17	53.58	54	-0.42

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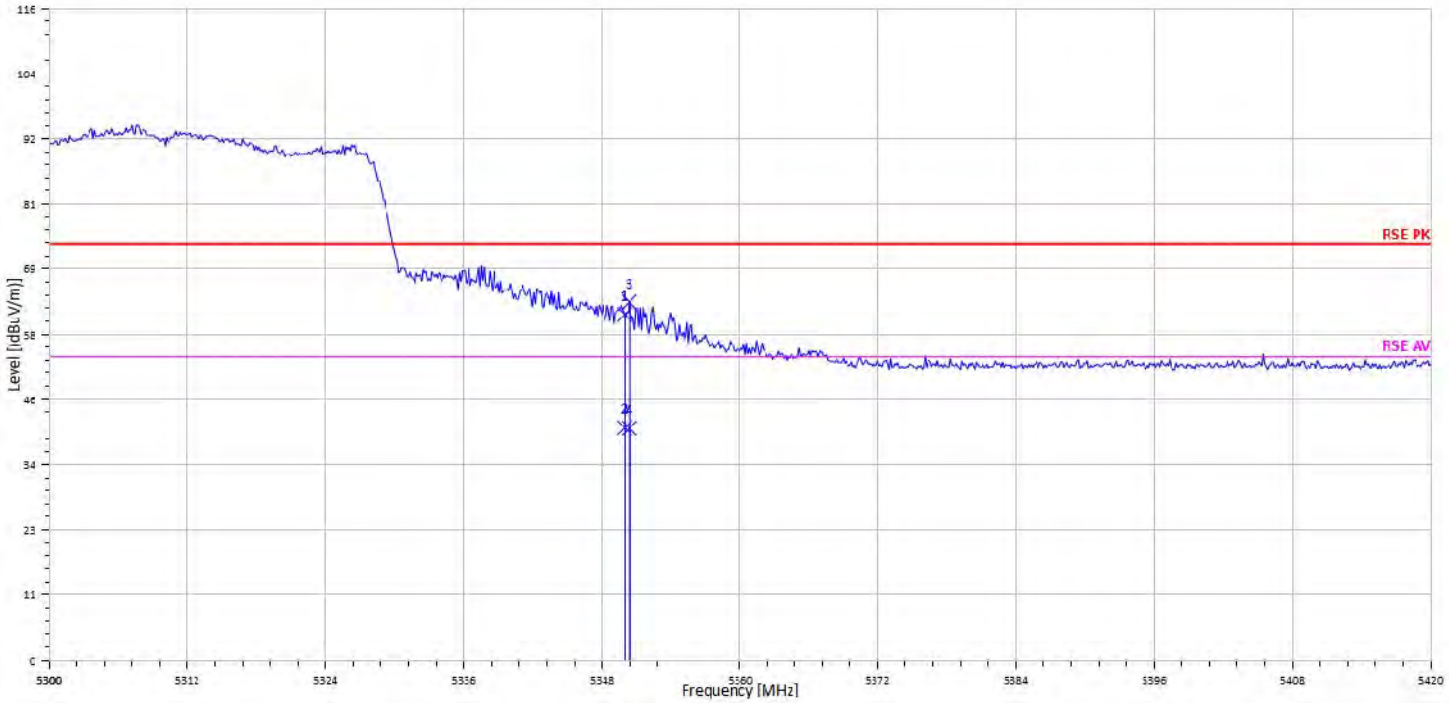
Operation Mode :	802.11n40B2	Test Date :	2017/10/6
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	61.63	-0.15	61.48	74	-12.52
5350.00	E	Average	41.48	-0.15	41.33	54	-12.67
5350.40	S	Peak	63.87	-0.15	63.72	74	-10.28
5350.40	S	Average	41.39	-0.15	41.24	54	-12.76

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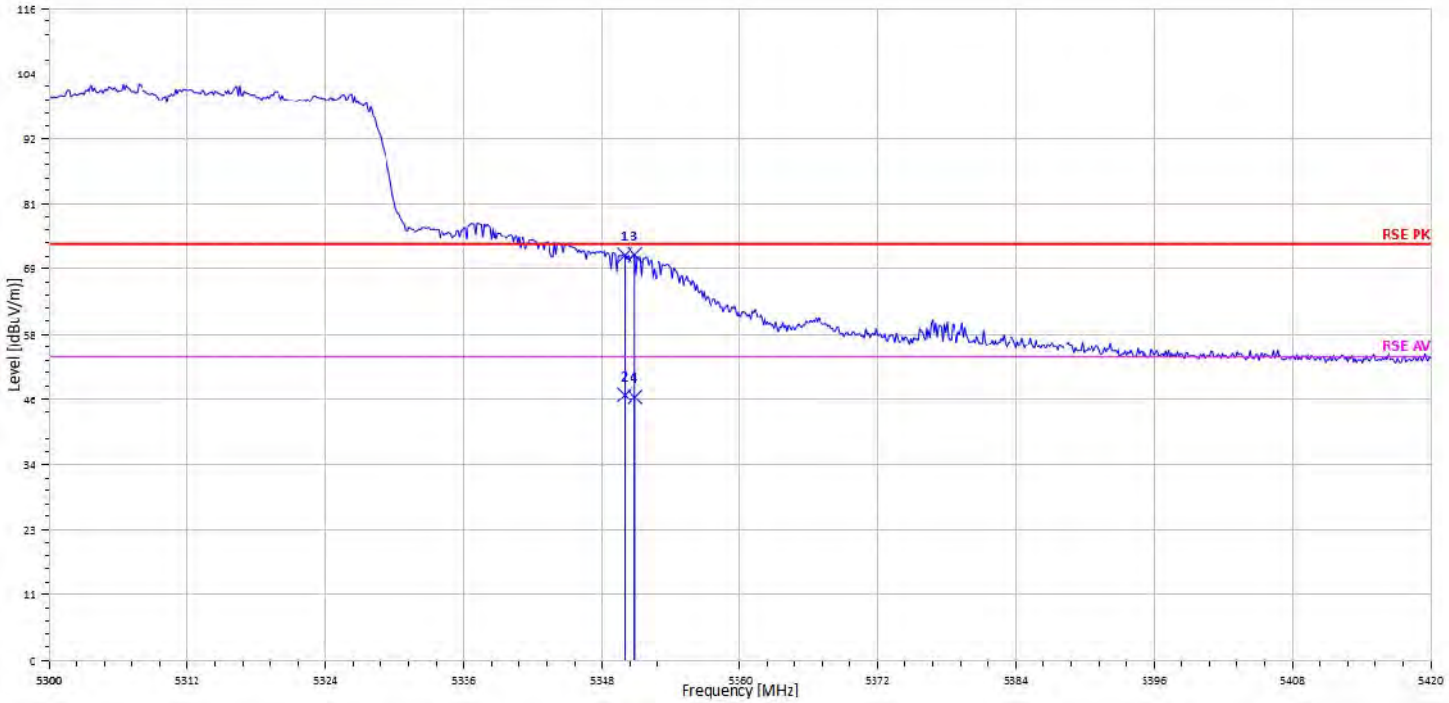
Operation Mode :	802.11n40B2	Test Date :	2017/10/6
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	72.25	-0.15	72.09	74	-1.91
5350.00	E	Average	47.35	-0.15	47.19	54	-6.81
5350.88	S	Peak	72.34	-0.15	72.18	74	-1.82
5350.88	S	Average	46.95	-0.15	46.80	54	-7.20

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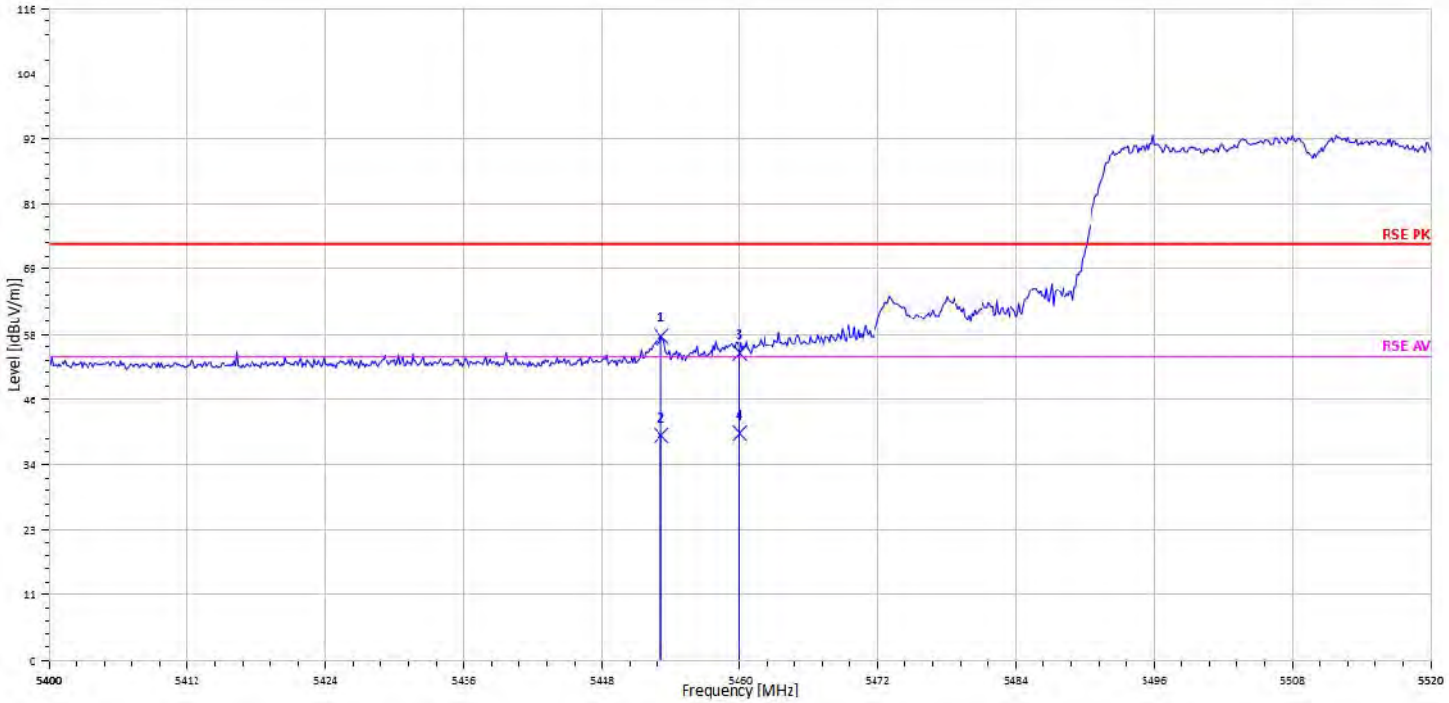
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5453.16	S	Peak	57.64	0.04	57.68	74	-16.32
5453.16	S	Average	39.91	0.04	39.95	74	-34.05
5460.00	E	Peak	54.56	0.06	54.62	74	-19.38
5460.00	E	Average	40.26	0.06	40.32	74	-33.68

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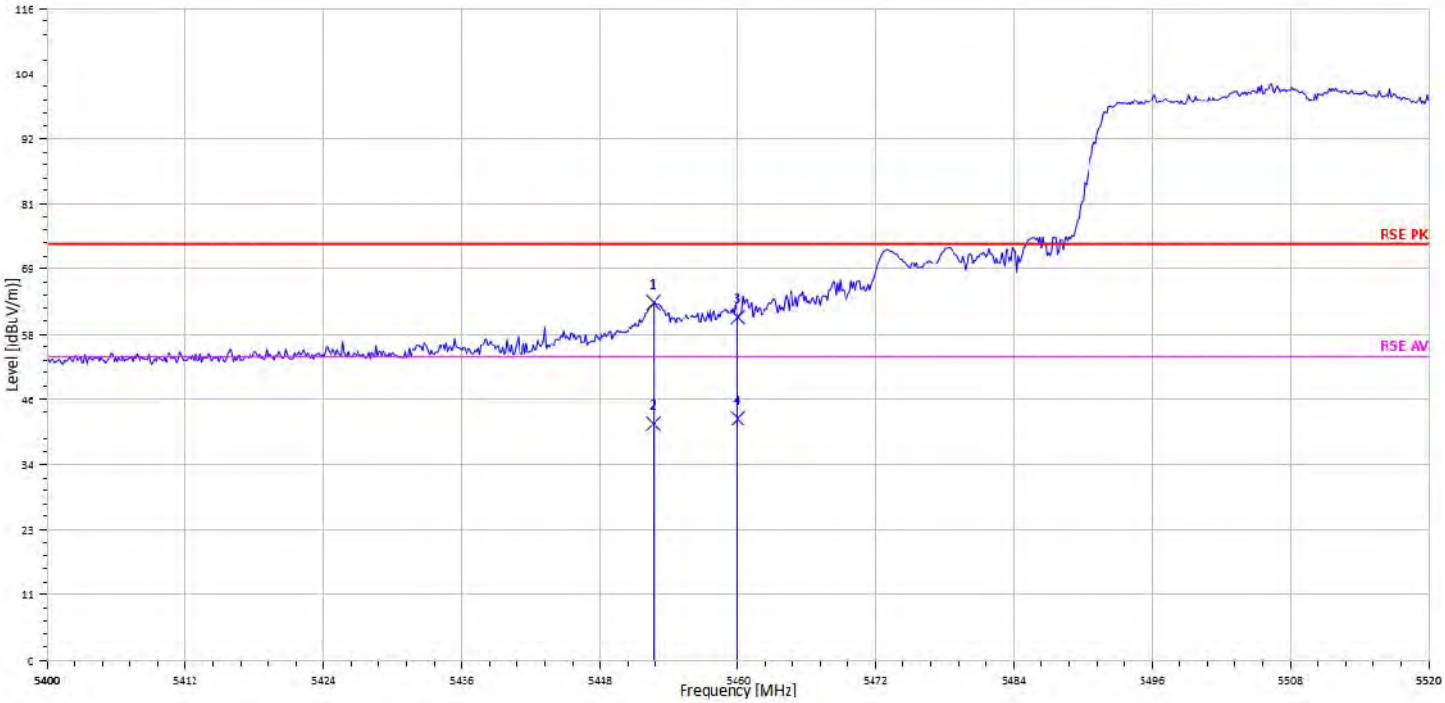
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5452.68	S	Peak	63.57	0.04	63.61	74	-10.39
5452.68	S	Average	42.02	0.04	42.06	54	-11.94
5460.00	E	Peak	60.96	0.06	61.02	74	-12.98
5460.00	E	Average	42.93	0.06	42.99	54	-11.01

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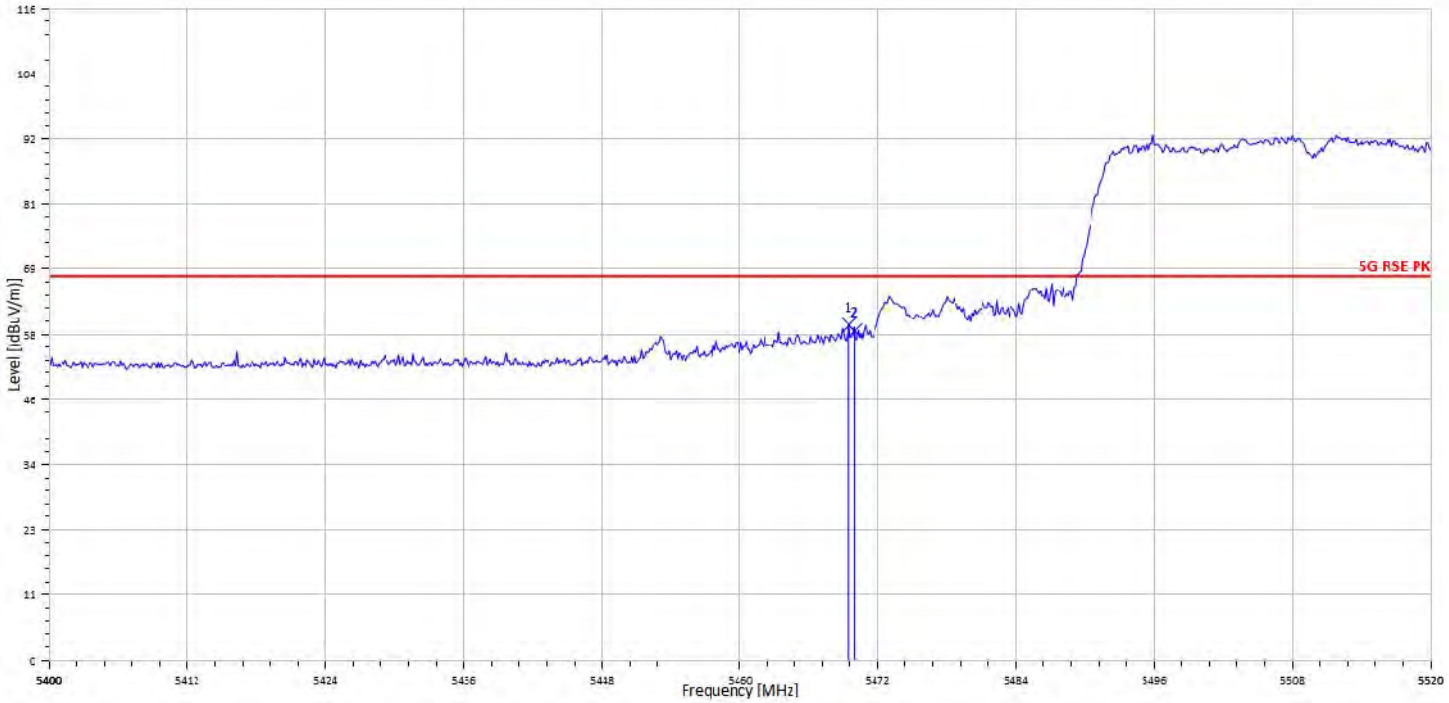
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5469.48	S	Peak	59.52	0.08	59.60	68.3	-8.70
5470.00	E	Peak	58.50	0.08	58.58	68.3	-9.72

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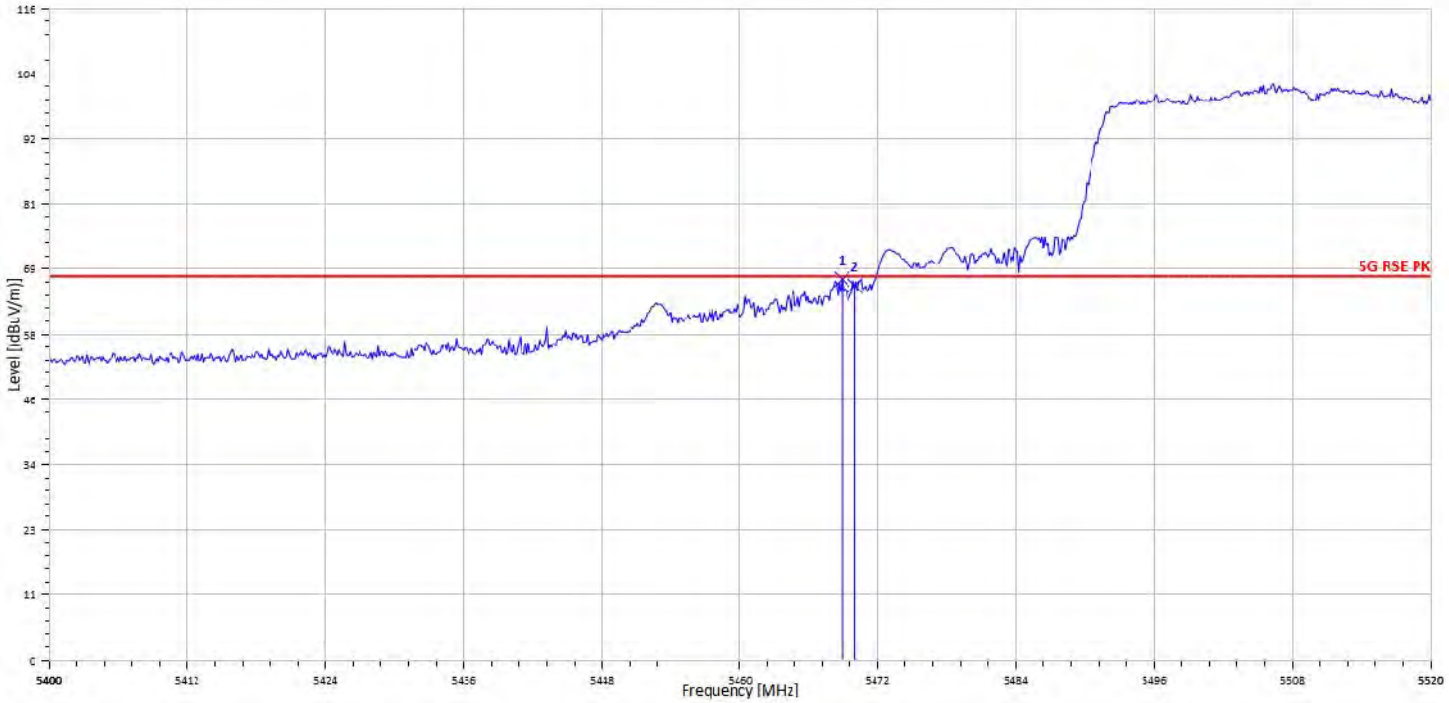
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5468.88	S	Peak	67.68	0.08	67.76	68.3	-0.54
5470.00	E	Peak	66.55	0.08	66.63	68.3	-1.67

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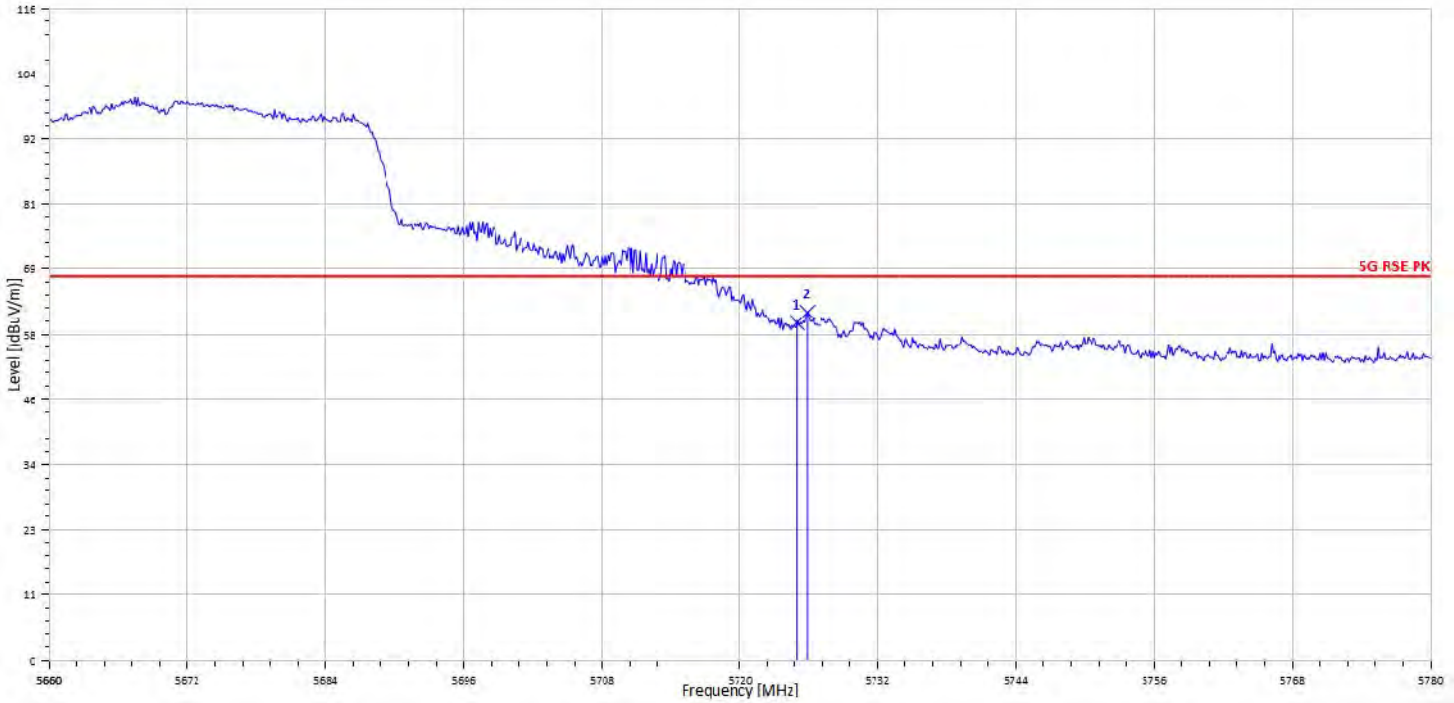
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	E	Peak	59.37	0.69	60.05	68.3	-8.25
5725.88	S	Peak	61.17	0.69	61.86	68.3	-6.44

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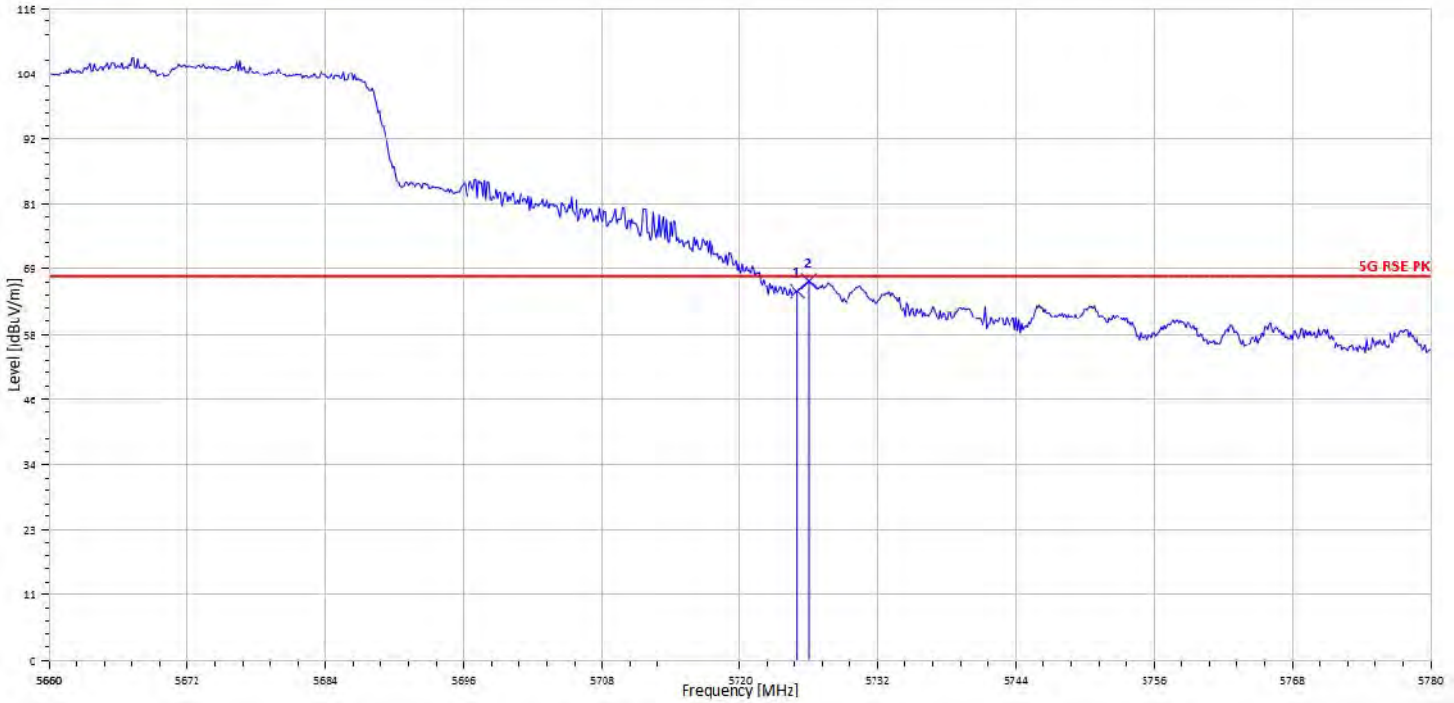
Operation Mode :	802.11n40B3	Test Date :	2017/10/6
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	64.94	0.69	65.62	68.3	-2.68
5726.00	S	Peak	66.79	0.69	67.48	68.3	-0.82

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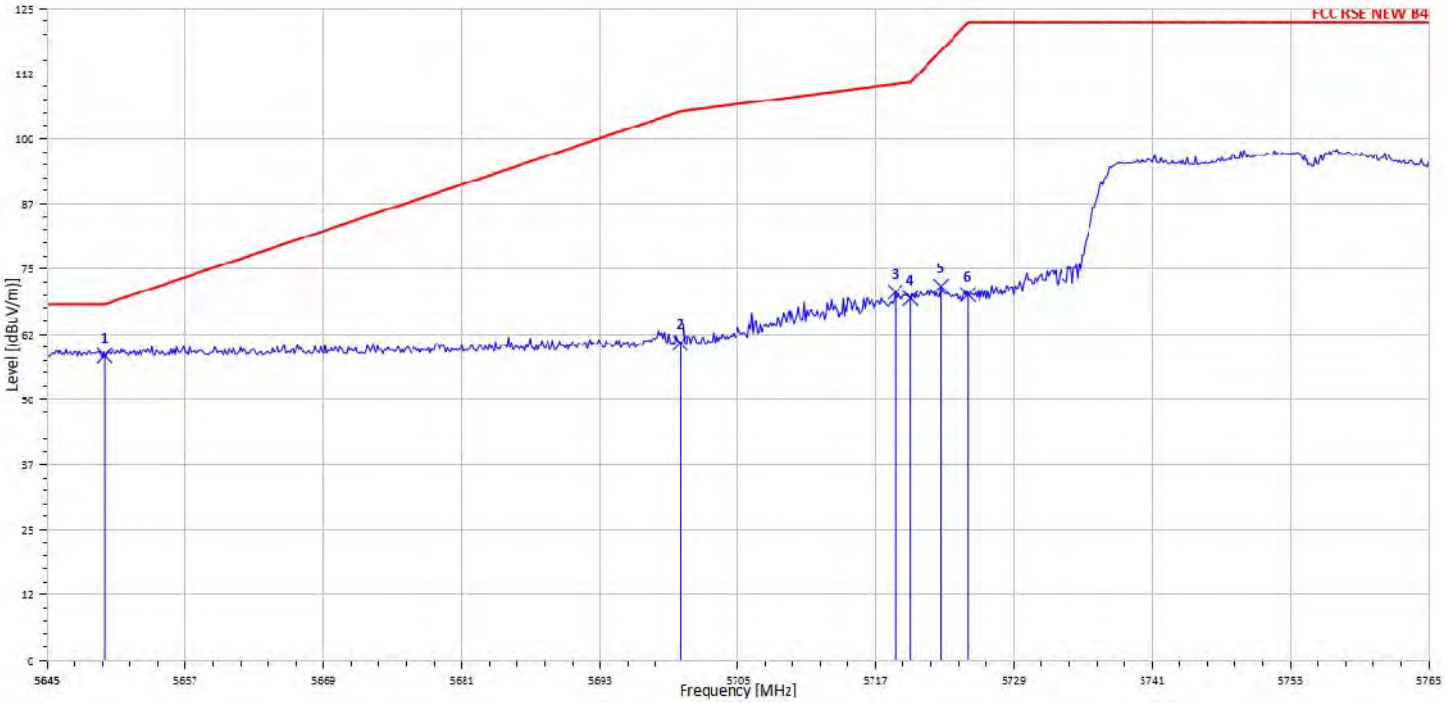
Operation Mode :	802.11n40B4	Test Date :	2017/10/13
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	57.75	0.63	58.37	68.23	-9.86
5700.00	S	Peak	60.25	0.56	60.81	105.23	-44.42
5718.68	S	Peak	69.94	0.65	70.59	110.4604	-39.87
5720.00	S	Peak	68.73	0.66	69.39	110.83	-41.44
5722.64	S	Peak	71.04	0.67	71.71	116.8495	-45.14
5725.00	E	Peak	69.43	0.69	70.12	122.23	-52.11

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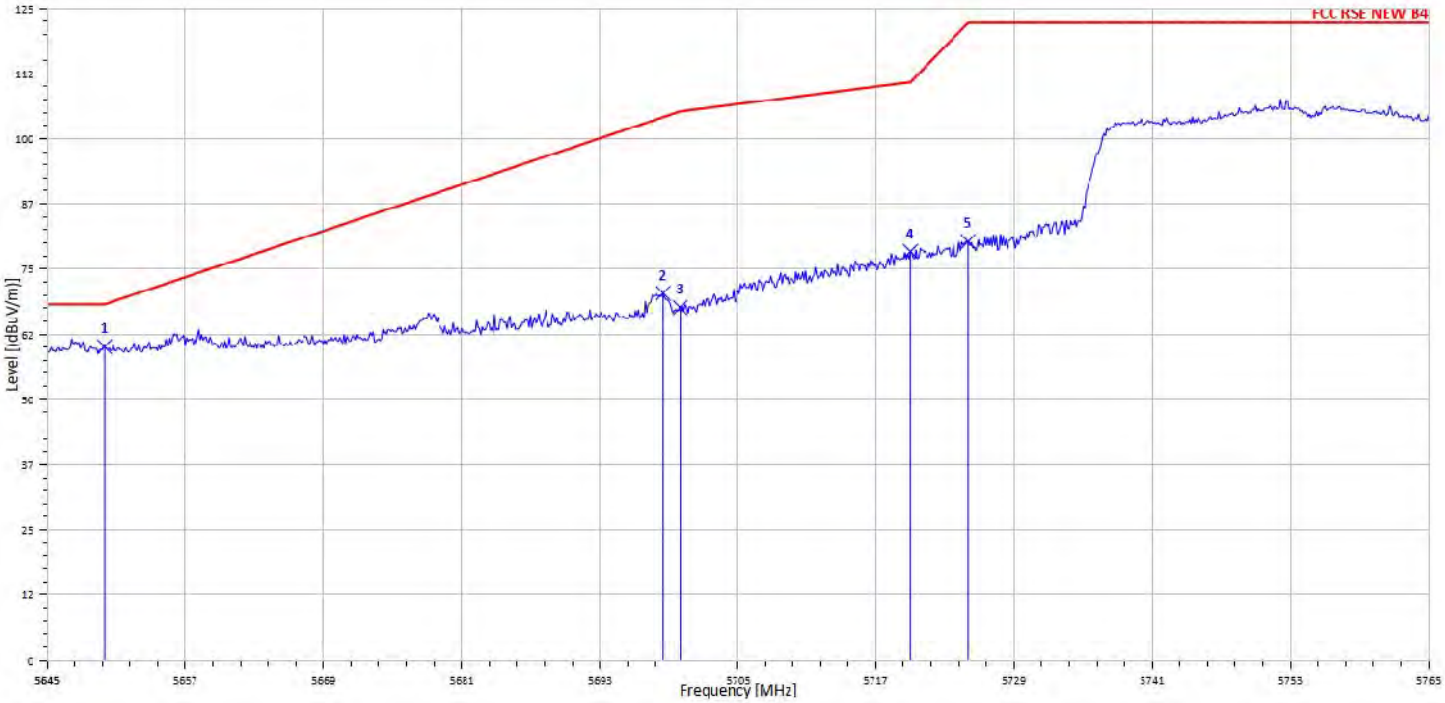
Operation Mode :	802.11n40B4	Test Date :	2017/10/13
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	59.47	0.63	60.09	68.23	-8.14
5698.52	S	Peak	69.80	0.56	70.36	104.1348	-33.77
5700.00	S	Peak	67.03	0.56	67.59	105.23	-37.64
5720.00	S	Peak	77.70	0.66	78.36	110.83	-32.47
5725.00	E	Peak	79.59	0.69	80.28	122.23	-41.95

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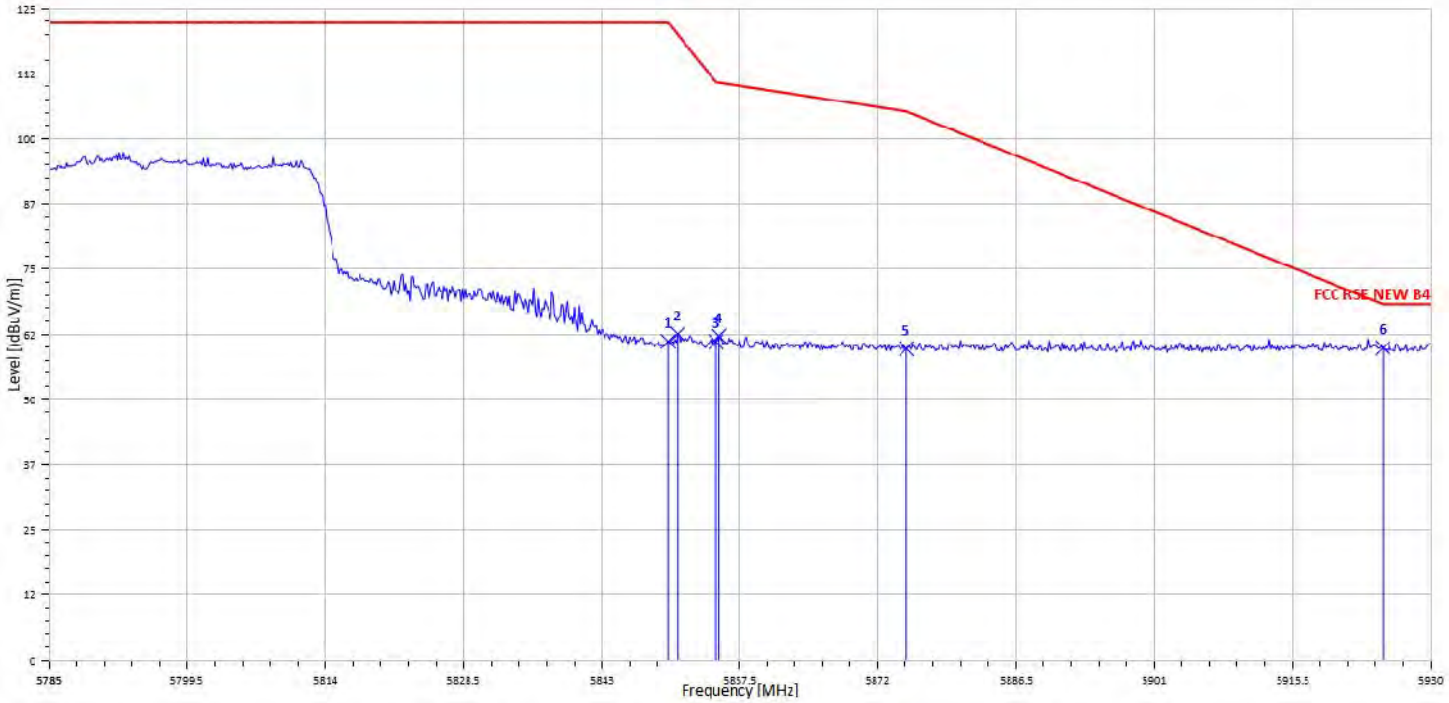
Operation Mode :	802.11n40B4	Test Date :	2017/10/13
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	60.10	1.01	61.11	122.23	-61.12
5850.98	S	Peak	61.53	1.01	62.54	120.0068	-57.47
5855.00	S	Peak	60.02	1.01	61.02	110.83	-49.81
5855.33	S	Peak	61.13	1.00	62.13	110.7389	-48.61
5875.00	S	Peak	58.75	0.99	59.73	105.23	-45.50
5925.00	S	Peak	58.83	1.04	59.87	68.23	-8.36

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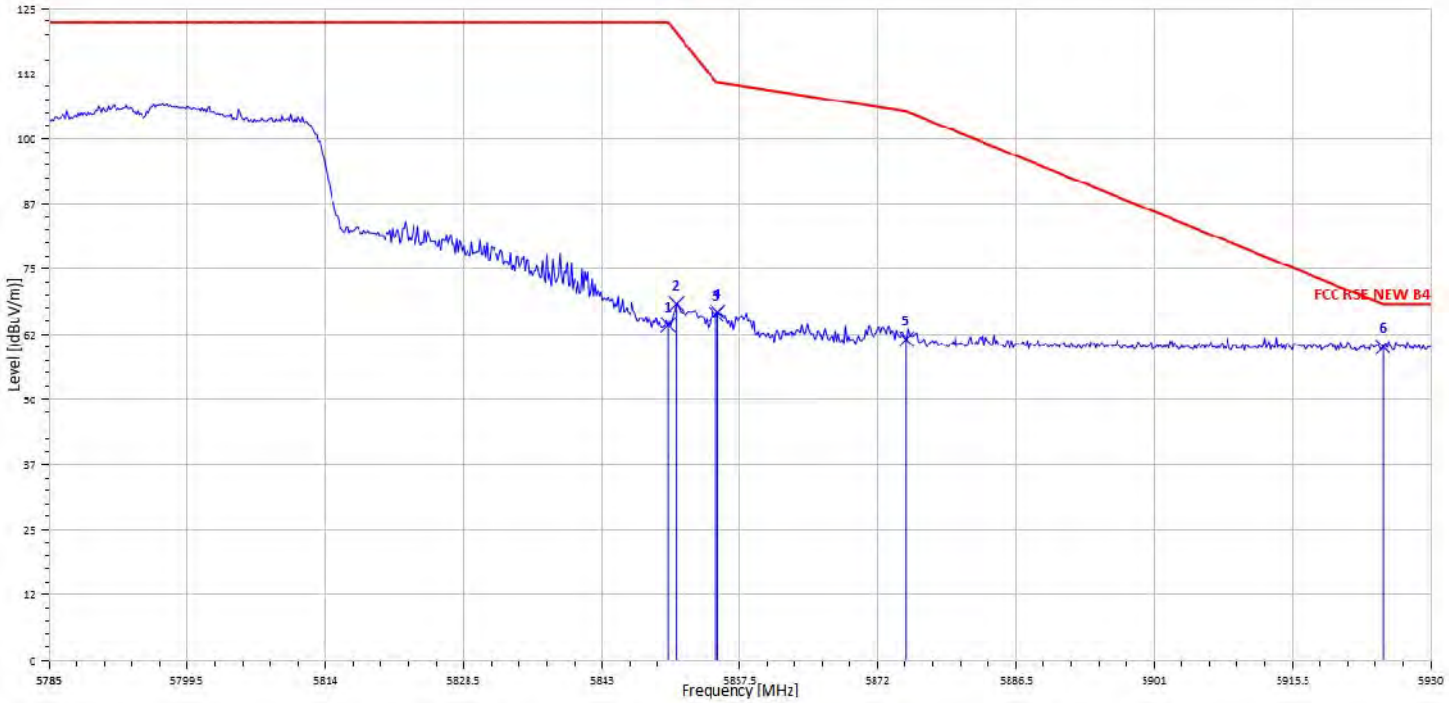
Operation Mode :	802.11n40B4	Test Date :	2017/10/13
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	63.23	1.01	64.24	122.23	-57.99
5850.83	S	Peak	67.28	1.01	68.29	120.3374	-52.05
5855.00	S	Peak	65.32	1.01	66.33	110.83	-44.50
5855.18	S	Peak	65.76	1.00	66.76	110.7796	-44.02
5875.00	S	Peak	60.54	0.99	61.52	105.23	-43.71
5925.00	S	Peak	59.00	1.04	60.04	68.23	-8.19

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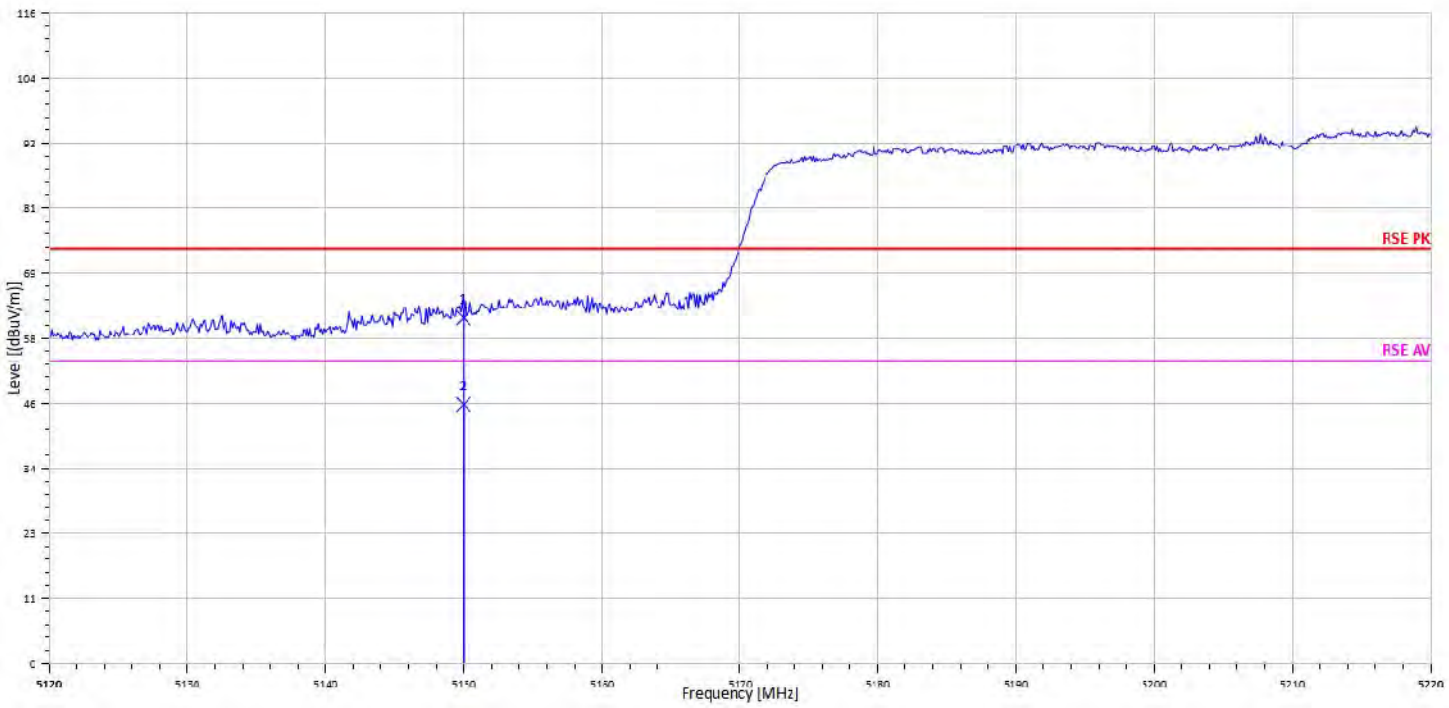
802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2017/10/13
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	61.80	-0.17	61.63	74	-12.37
5150.00	E	Average	46.36	-0.17	46.19	54	-7.81

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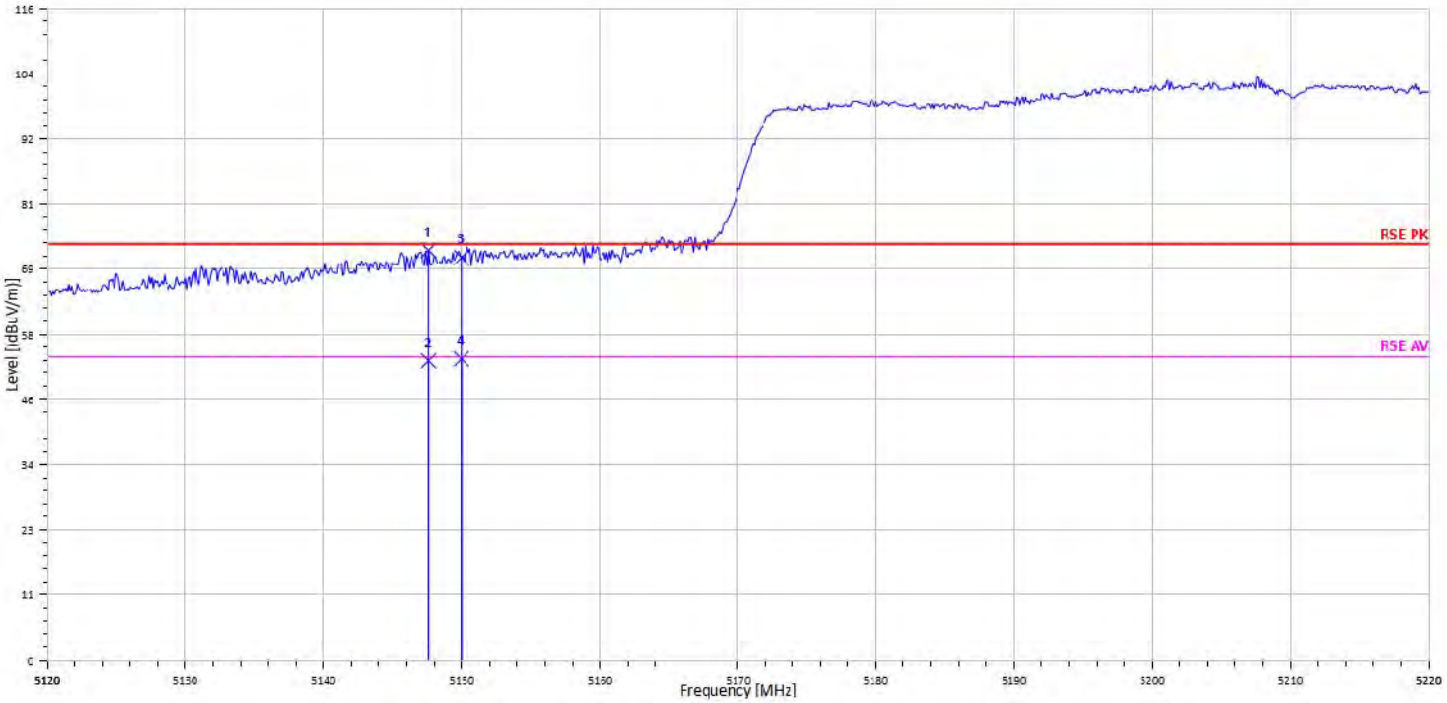
Operation Mode :	802.11ac80B1	Test Date :	2017/10/13
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.60	S	Peak	73.08	-0.17	72.91	74	-1.09
5147.60	S	Average	53.47	-0.17	53.30	54	-0.70
5150.00	E	Peak	71.80	-0.17	71.63	74	-2.37
5150.00	E	Average	53.78	-0.17	53.61	54	-0.39

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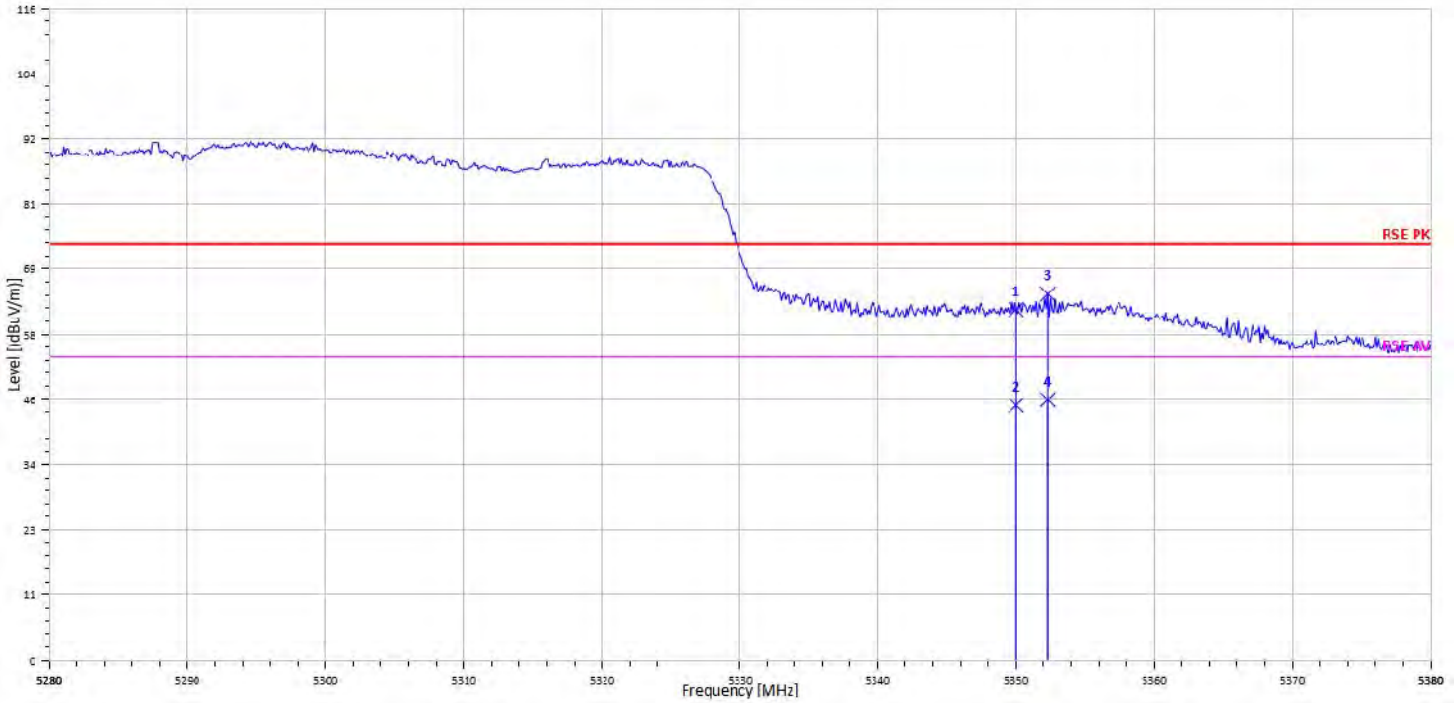
Operation Mode :	802.11ac80B2	Test Date :	2017/10/13
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	62.55	-0.15	62.39	74	-11.61
5350.00	E	Average	45.48	-0.15	45.33	54	-8.67
5352.30	S	Peak	65.29	-0.15	65.14	74	-8.86
5352.30	S	Average	46.49	-0.15	46.33	54	-7.67

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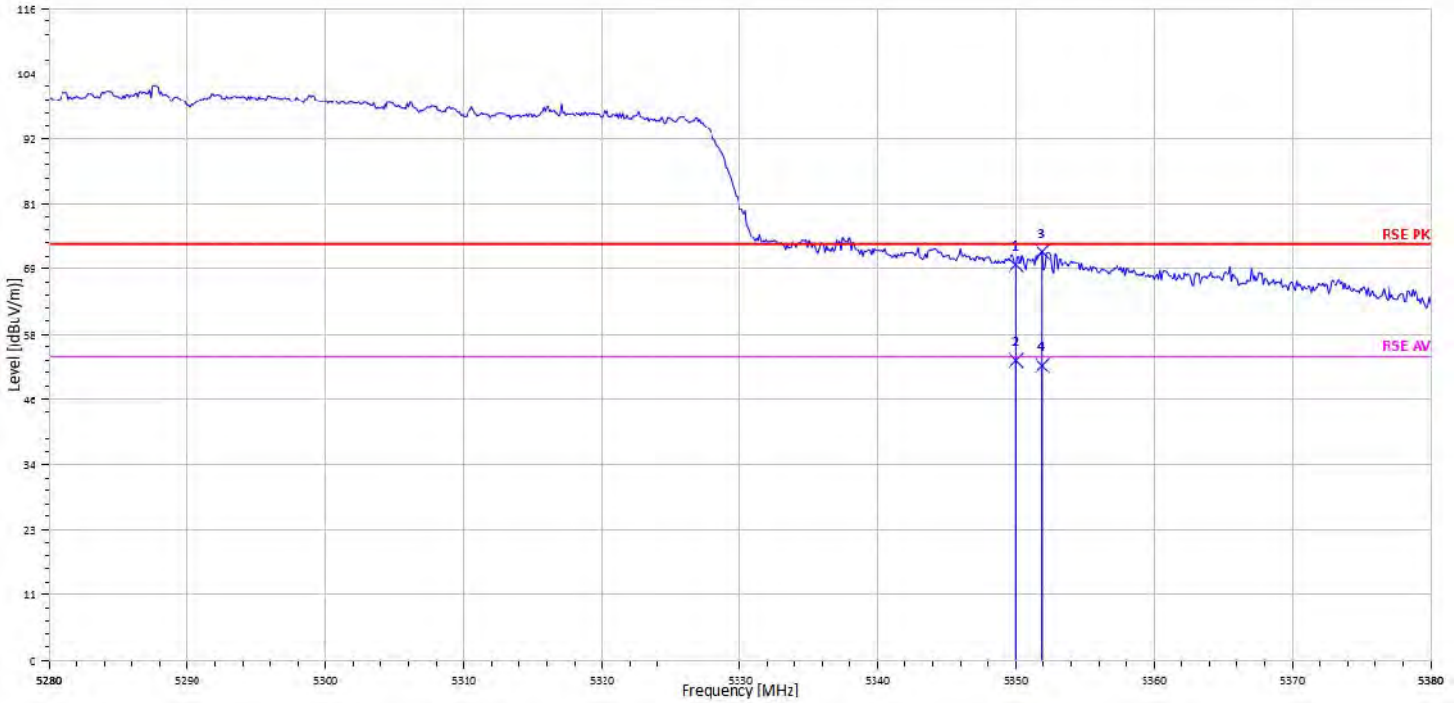
Operation Mode :	802.11ac80B2	Test Date :	2017/10/13
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5350.00	E	Peak	70.47	-0.15	70.32	74	-3.68
5350.00	E	Average	53.51	-0.15	53.36	54	-0.64
5351.90	S	Peak	72.85	-0.15	72.70	74	-1.30
5351.90	S	Average	52.60	-0.15	52.45	54	-1.55

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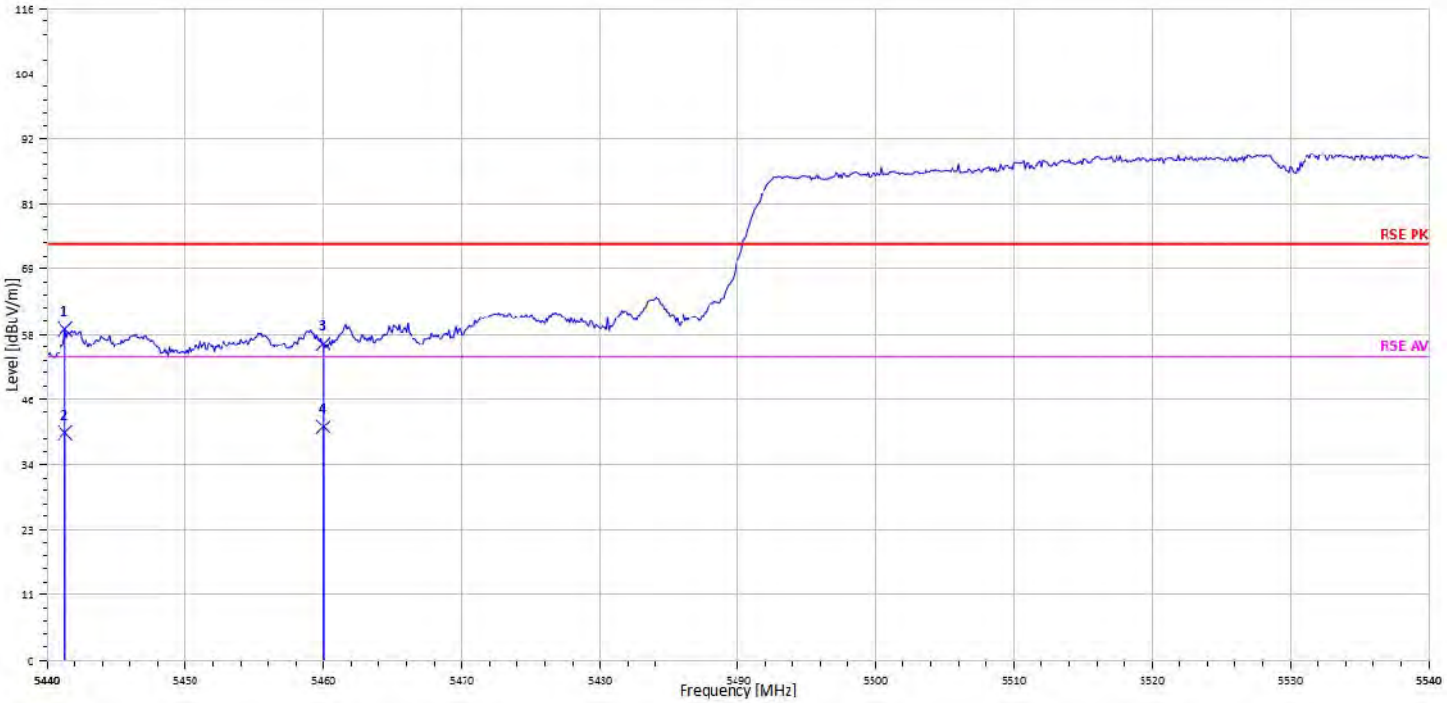
Operation Mode :	802.11ac80B3	Test Date :	2017/10/13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5441.30	S	Peak	58.87	0.01	58.89	74	-15.11
5441.30	S	Average	40.39	0.01	40.41	54	-13.59
5460.00	E	Peak	56.24	0.06	56.30	74	-17.70
5460.00	E	Average	41.44	0.06	41.50	54	-12.50

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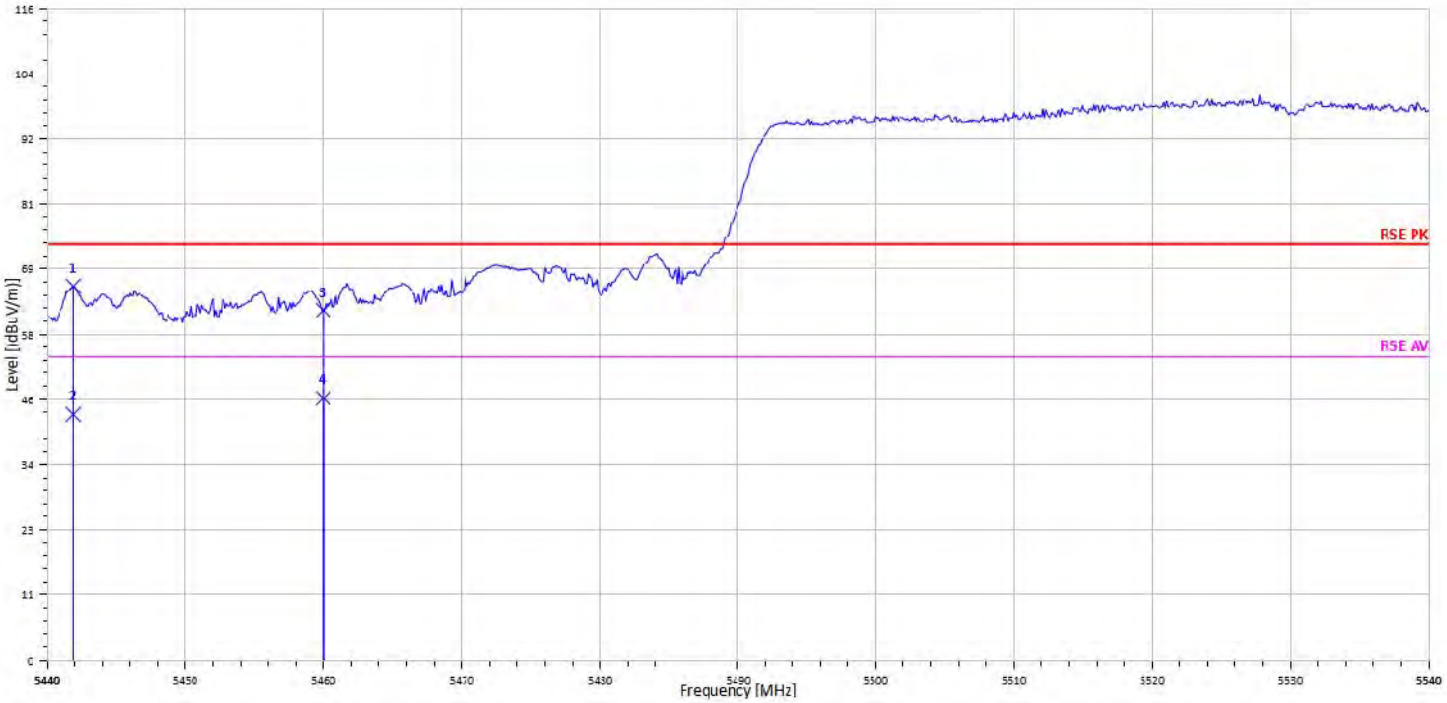
Operation Mode :	802.11ac80B3	Test Date :	2017/10/13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5441.90	S	Peak	66.53	0.02	66.55	74	-7.45
5441.90	S	Average	43.71	0.02	43.73	54	-10.27
5460.00	E	Peak	62.18	0.06	62.24	74	-11.76
5460.00	E	Average	46.53	0.06	46.59	54	-7.41

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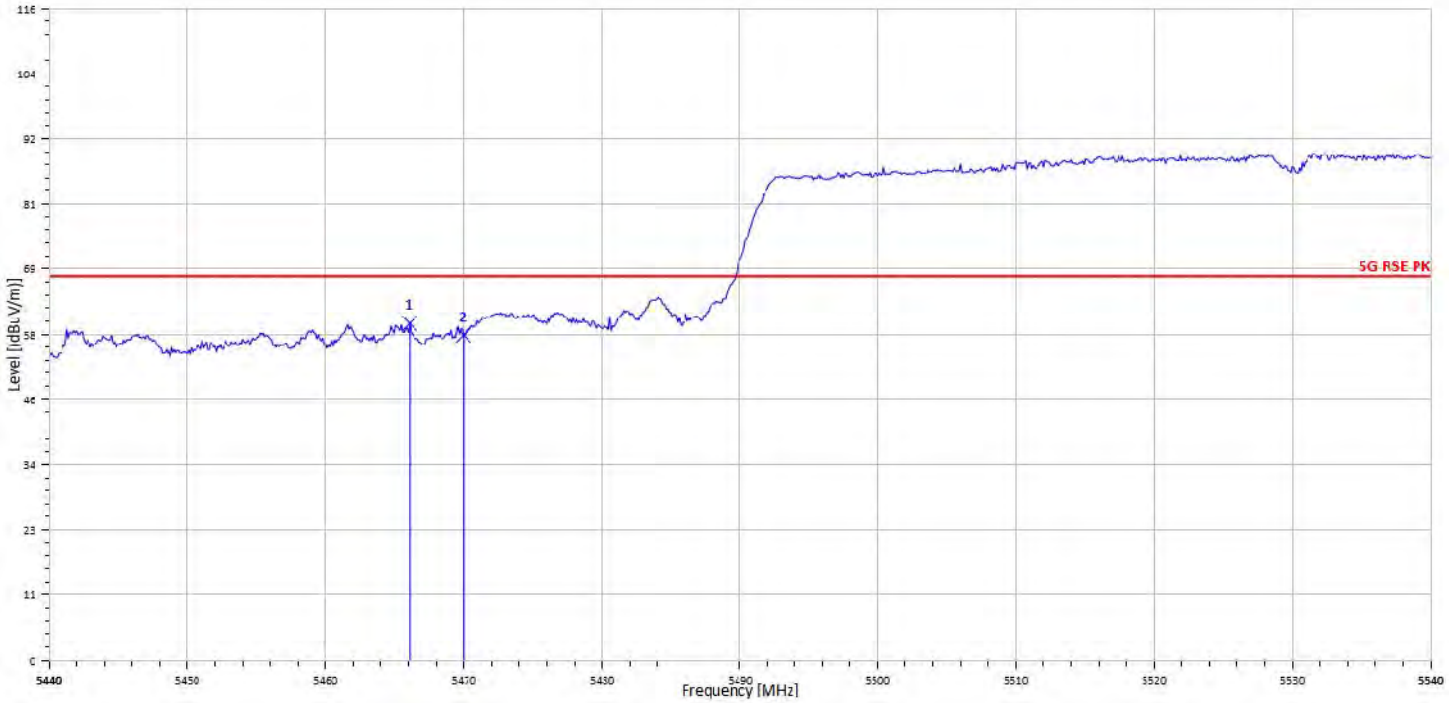
Operation Mode :	802.11ac80B3	Test Date :	2017/10/13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5466.10	S	Peak	59.87	0.07	59.94	68.3	-8.36
5470.00	E	Peak	57.76	0.08	57.84	68.3	-10.46

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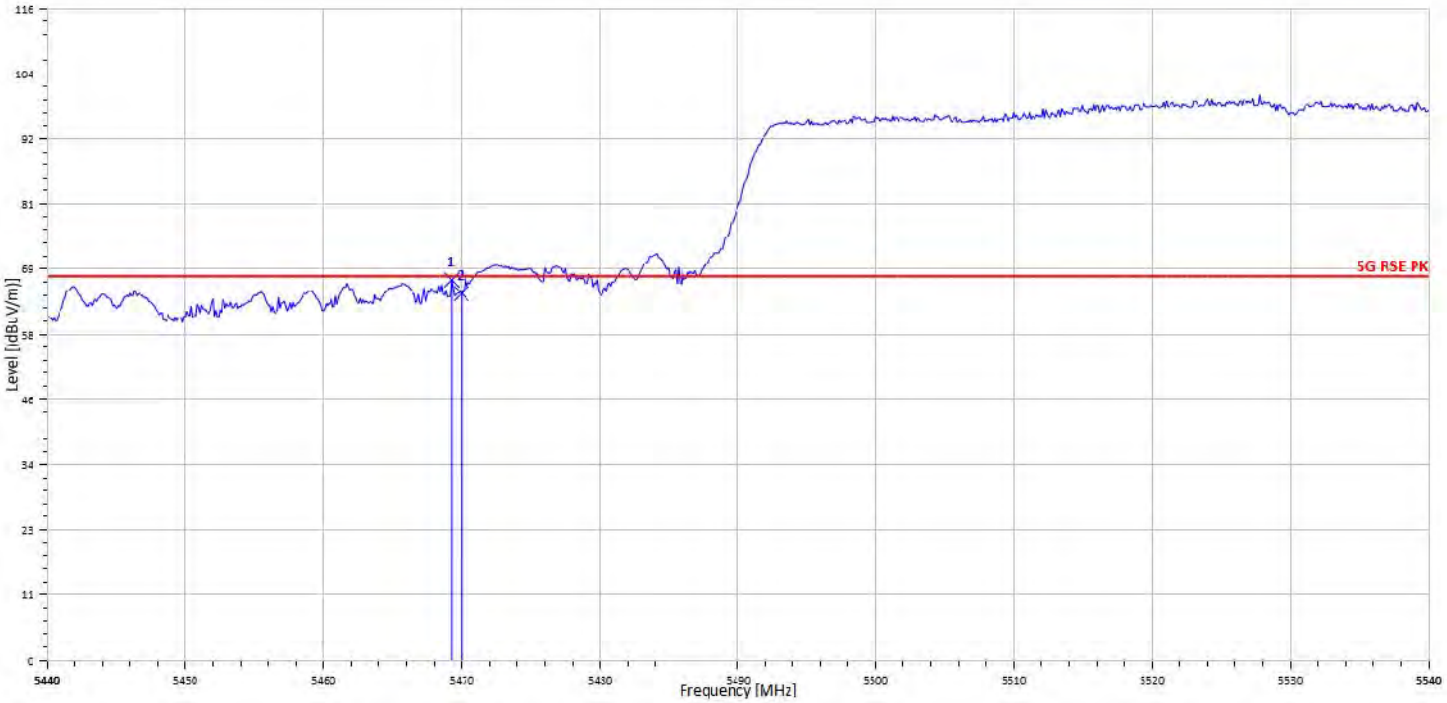
Operation Mode :	802.11ac80B3	Test Date :	2017/10/13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5469.30	S	Peak	67.57	0.08	67.65	68.3	-0.65
5470.00	E	Peak	65.15	0.08	65.23	68.3	-3.07

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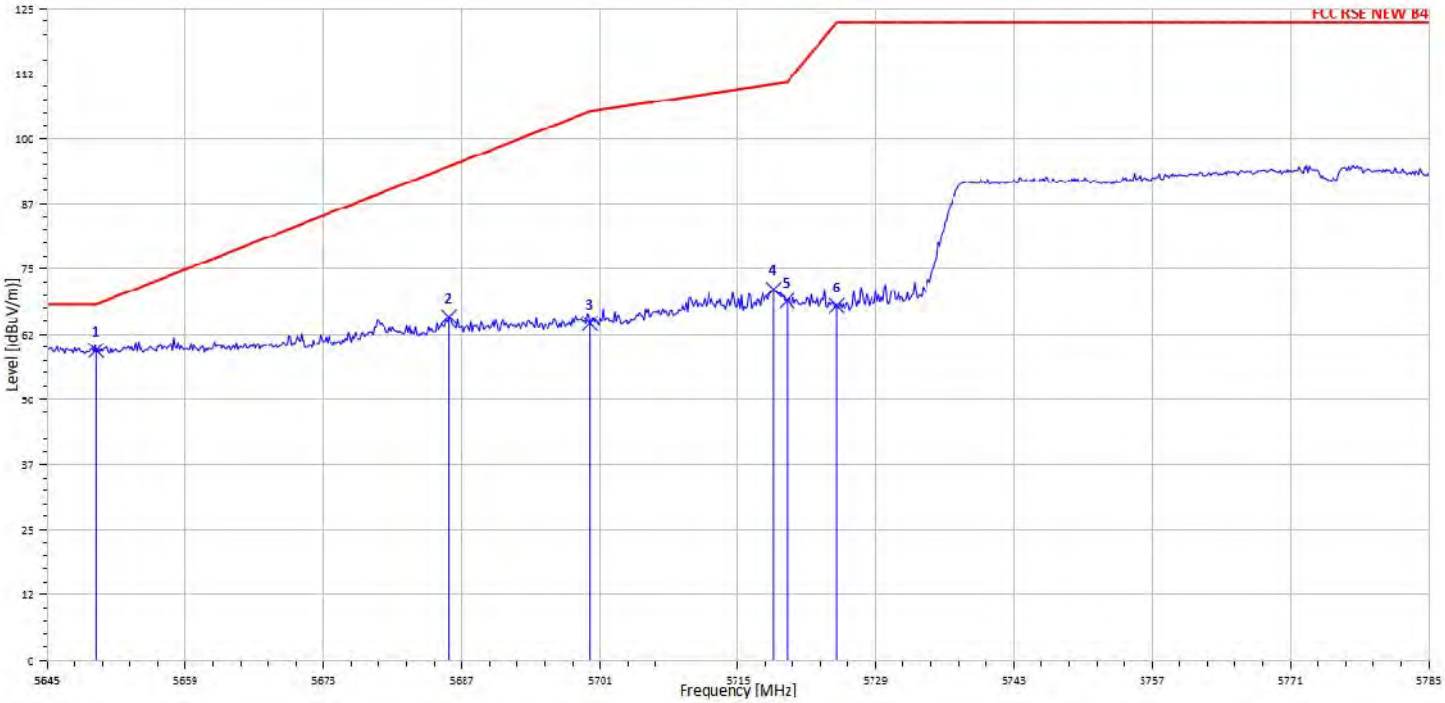
Operation Mode :	802.11ac80B4	Test Date :	2017/10/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	58.77	0.63	59.40	68.23	-8.83
5685.74	S	Peak	65.26	0.58	65.84	94.67778	-28.84
5700.00	S	Peak	64.01	0.56	64.57	105.23	-40.66
5718.64	S	Peak	70.43	0.65	71.08	110.4492	-39.36
5720.00	S	Peak	68.30	0.66	68.96	110.83	-41.87
5725.00	E	Peak	67.31	0.69	67.99	122.23	-54.24

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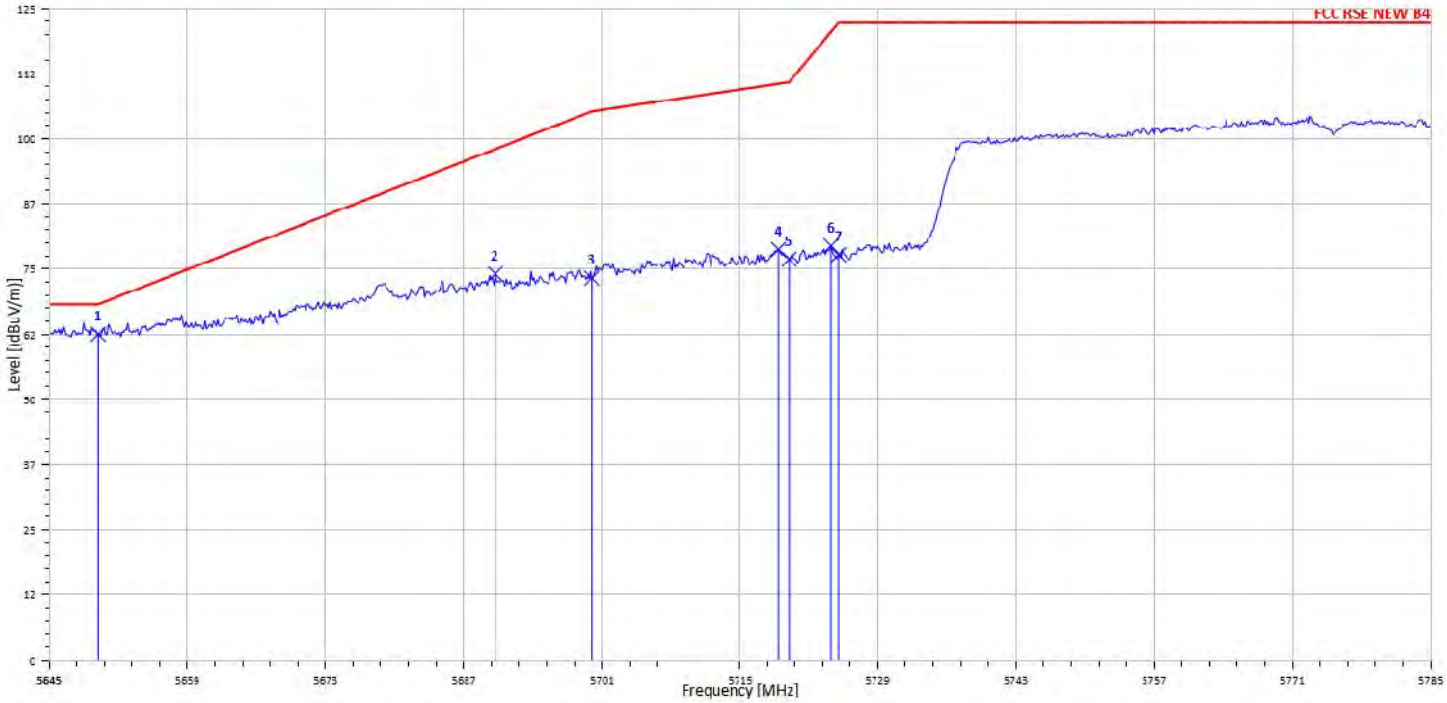
Operation Mode :	802.11ac80B4	Test Date :	2017/10/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	61.87	0.63	62.49	68.23	-5.74
5690.22	S	Peak	73.51	0.57	74.08	97.99297	-23.91
5700.00	S	Peak	72.69	0.56	73.25	105.23	-31.98
5718.92	S	Peak	78.09	0.65	78.74	110.5276	-31.79
5720.00	S	Peak	76.23	0.66	76.89	110.83	-33.94
5724.24	S	Peak	78.76	0.68	79.44	120.4977	-41.06
5725.00	E	Peak	77.04	0.69	77.73	122.23	-44.50

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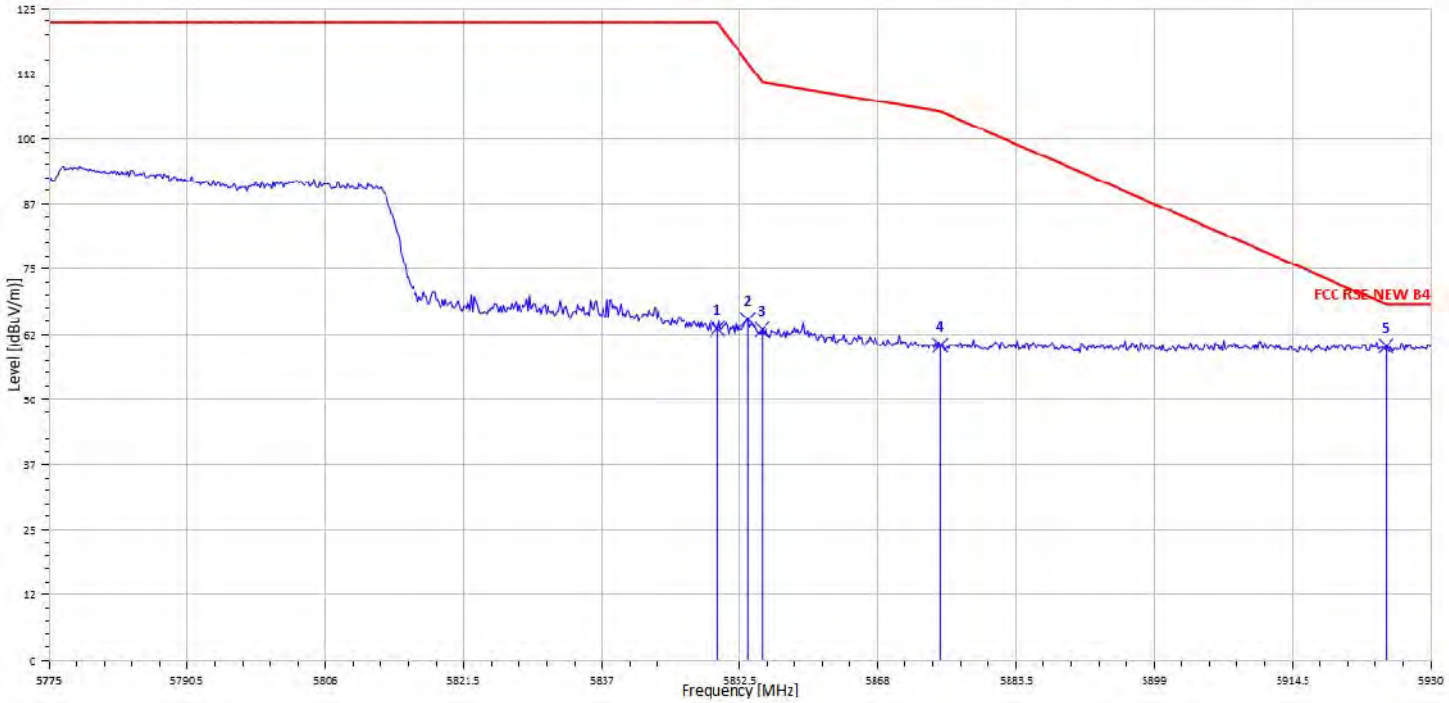
Operation Mode :	802.11ac80B4	Test Date :	2017/10/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	62.58	1.01	63.59	122.23	-58.64
5853.43	S	Peak	64.31	1.01	65.32	114.4092	-49.09
5855.00	S	Peak	62.39	1.01	63.39	110.83	-47.44
5875.00	S	Peak	59.41	0.99	60.39	105.23	-44.84
5925.00	S	Peak	59.23	1.04	60.27	68.23	-7.96

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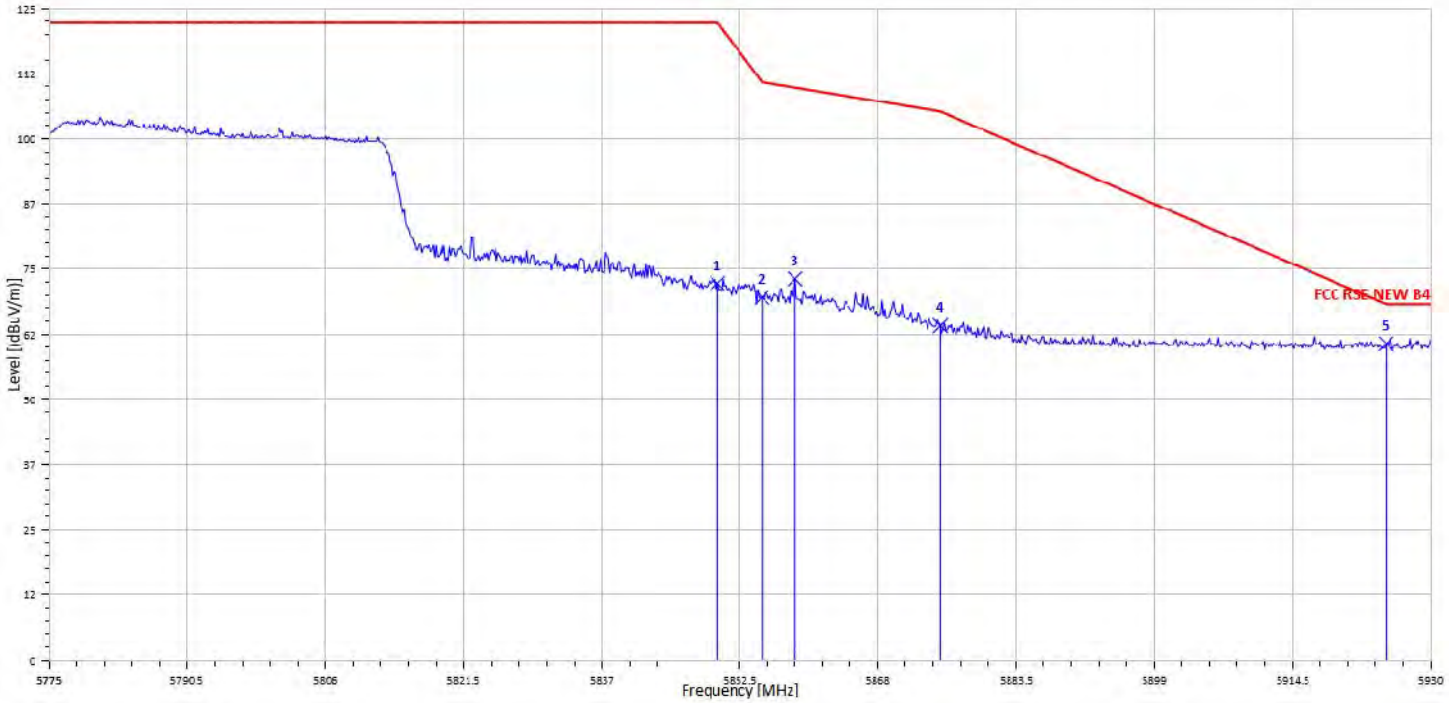
Operation Mode :	802.11ac80B4	Test Date :	2017/10/13
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	71.23	1.01	72.24	122.23	-49.99
5855.00	S	Peak	68.56	1.01	69.57	110.83	-41.26
5858.70	S	Peak	72.12	1.00	73.12	109.7939	-36.67
5875.00	S	Peak	63.12	0.99	64.10	105.23	-41.13
5925.00	S	Peak	59.61	1.04	60.65	68.23	-7.58

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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

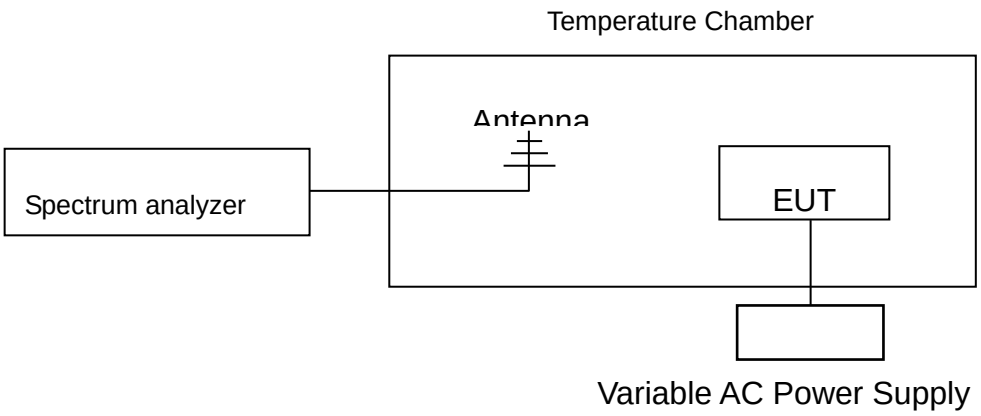
13.1 Standard Applicable

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:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2017.10.17
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	3.63V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291
	2.97V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

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25 ℃	3.3V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.95508	0.00000861
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

75 ℃	3.63V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291
	2.97V	36	5180	5,179.93994	0.00001159
		44	5220	5,219.93994	0.00001151
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.92481	0.00001348
		140	5700	5,699.92481	0.00001319
		149	5745	5,744.92481	0.00001309
		157	5785	5,784.92481	0.00001300
		165	5825	5,824.92481	0.00001291

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Operation Mode	802.11 n_HT40	Test Date	2017.10.17
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	3.63V	38	5190	5,189.94995	0.00000964
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.94995	0.00000908
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.92505	0.00001293
	2.97V	38	5190	5,189.94995	0.00000964
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.94995	0.00000908
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.92505	0.00001293

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25 ℃	3.3V	38	5190	5,189.94995	0.00000964
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.94995	0.00000908
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.92505	0.00001293
75 ℃	3.63V	38	5190	5,189.94995	0.00000964
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.94995	0.00000908
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.92505	0.00001293
	2.97V	38	5190	5,189.94995	0.00000964
		46	5230	5,229.94995	0.00000957
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.94995	0.00000943
		102	5510	5,509.94995	0.00000908
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.94995	0.00000883
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.92505	0.00001293

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Operation Mode	802.11 ac_VHT80	Test Date	2017.10.17
Temperature	:23 ℃	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-20 ℃	3.63V	42	5210	5,209.89990	0.00001921
		58	5290	5,289.89990	0.00001892
		106	5530	5,529.89990	0.00001810
		122	5610	5,609.89990	0.00001784
		155	5775	5,774.89990	0.00001733
	2.97V	42	5210	5,209.89990	0.00001921
		58	5290	5,289.89990	0.00001892
		106	5530	5,529.89990	0.00001810
		122	5610	5,609.89990	0.00001784
		155	5775	5,774.89990	0.00001733
25 ℃	3.3V	42	5210	5,209.89990	0.00001921
		58	5290	5,289.89990	0.00001892
		106	5530	5,529.89990	0.00001810
		122	5610	5,609.89990	0.00001784
		155	5775	5,774.89990	0.00001733
75 ℃	3.63V	42	5210	5,209.89990	0.00001921
		58	5290	5,289.89990	0.00001892
		106	5530	5,529.89990	0.00001810
		122	5610	5,609.89990	0.00001784
		155	5775	5,774.89990	0.00001733
	2.97V	42	5210	5,209.89990	0.00001921
		58	5290	5,289.89990	0.00001892
		106	5530	5,529.89990	0.00001810
		122	5610	5,609.89990	0.00001784
		155	5775	5,774.89990	0.00001733

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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.

According to RSS-GEN 8.3
The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.
Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.
The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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