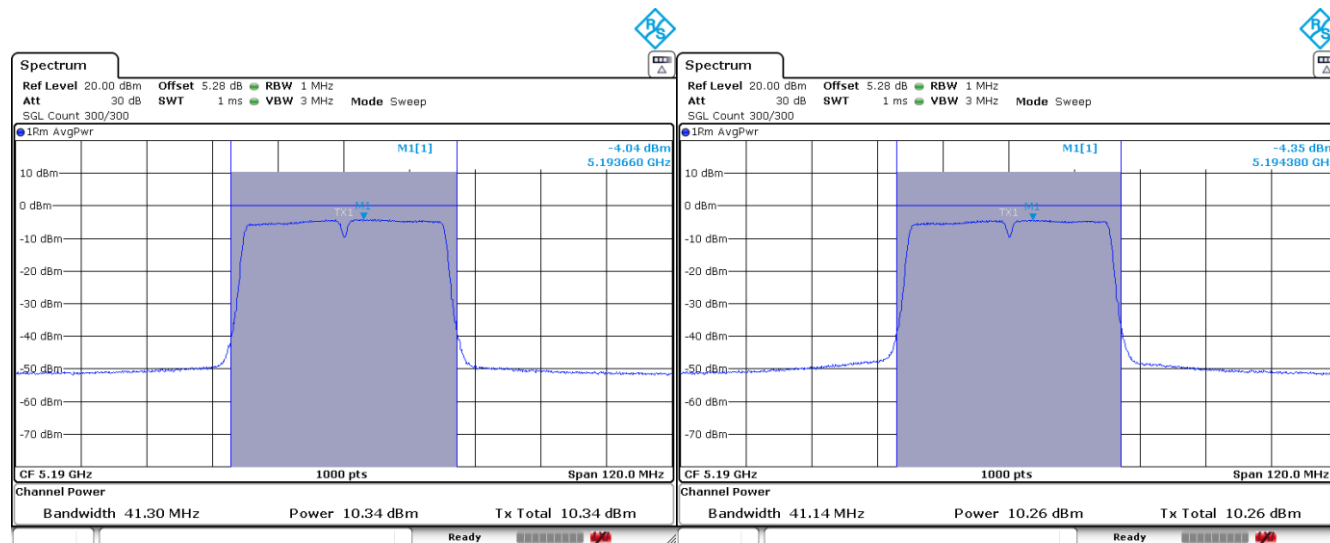


Mode : 802.11n HT40 – TxBF – 40MHz – MIMO –CORE 1 & CORE 2

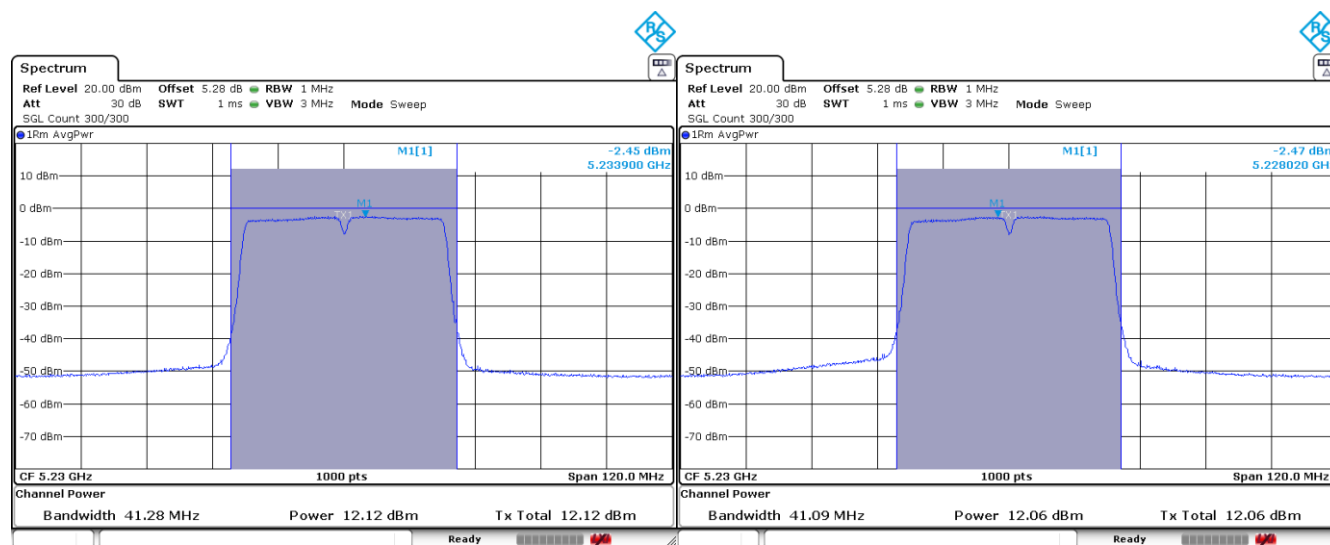
Channel 38



CORE 1

CORE 2

Channel 46

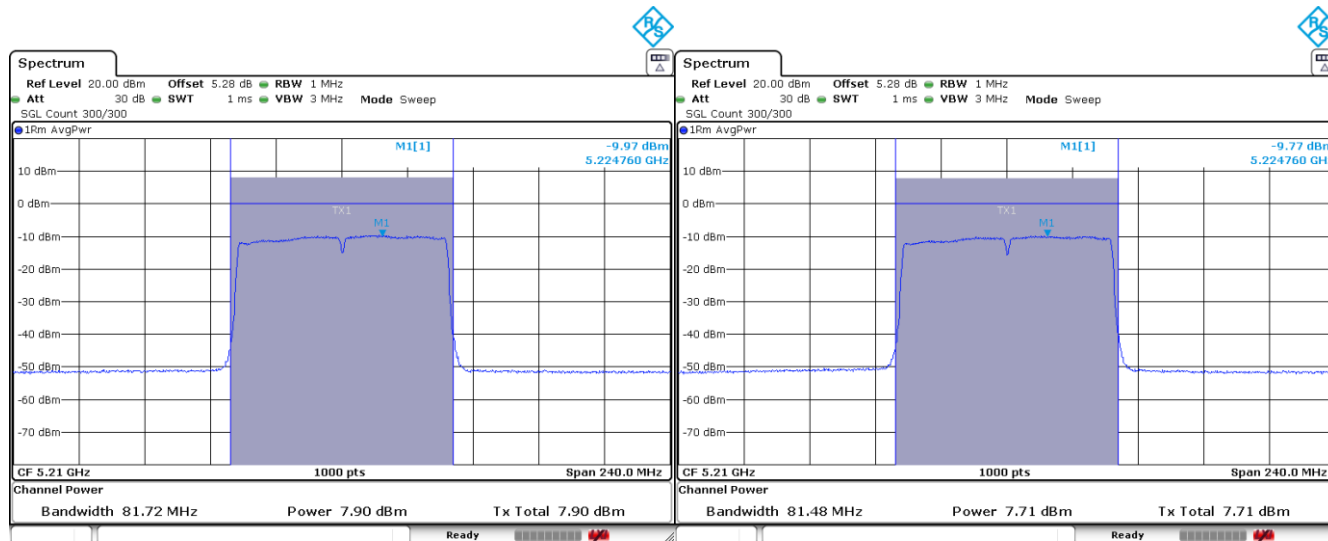


CORE 1

CORE 2

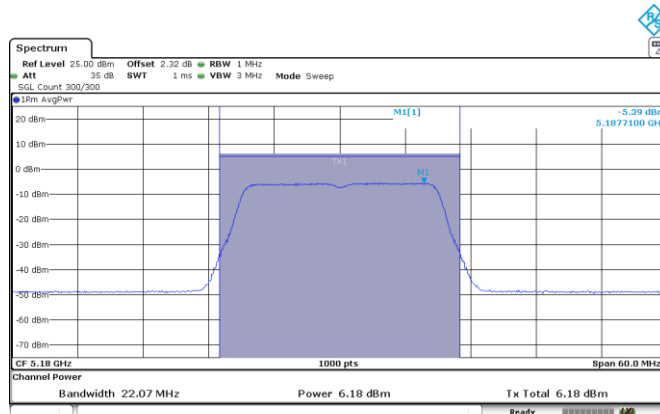
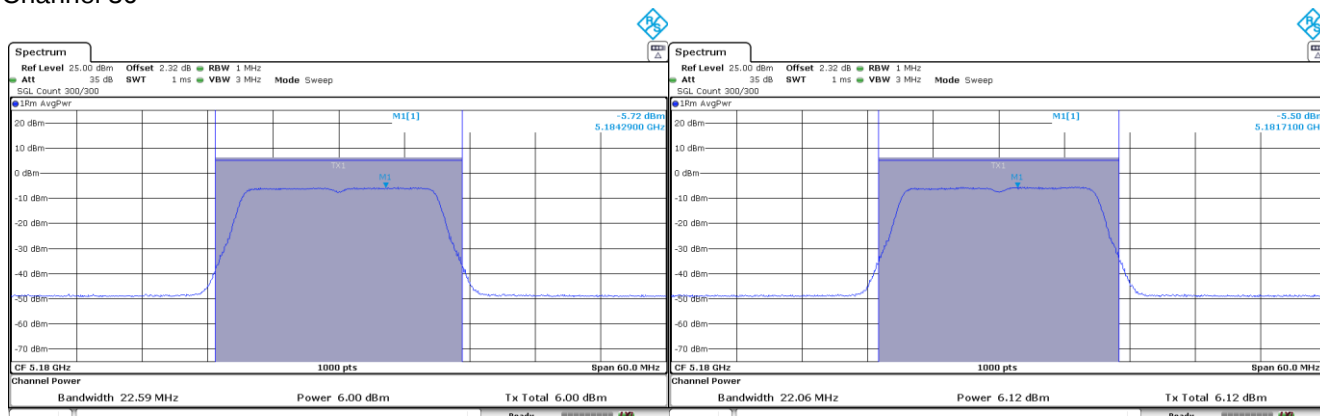
Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 1 & CORE 2

Channel 42

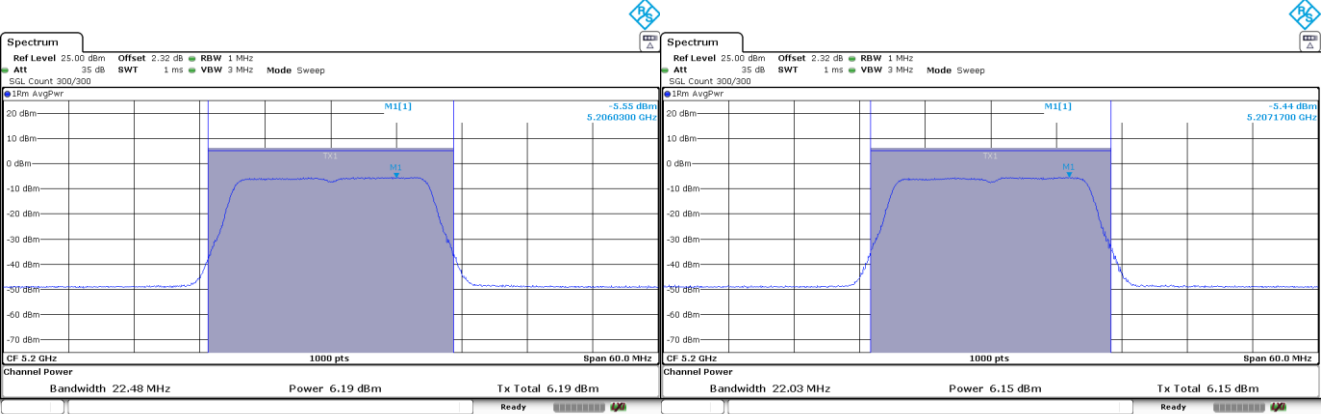


Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 36

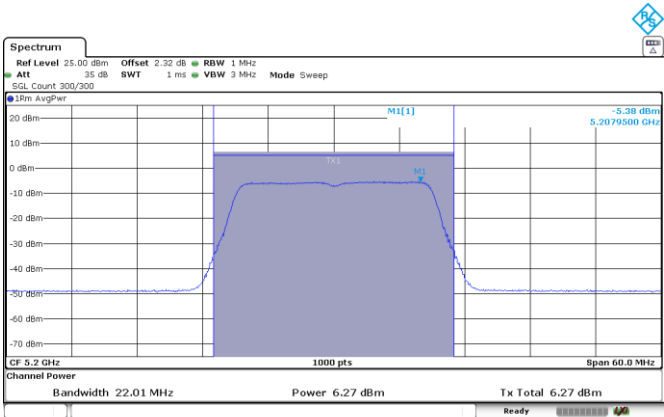


Channel 40



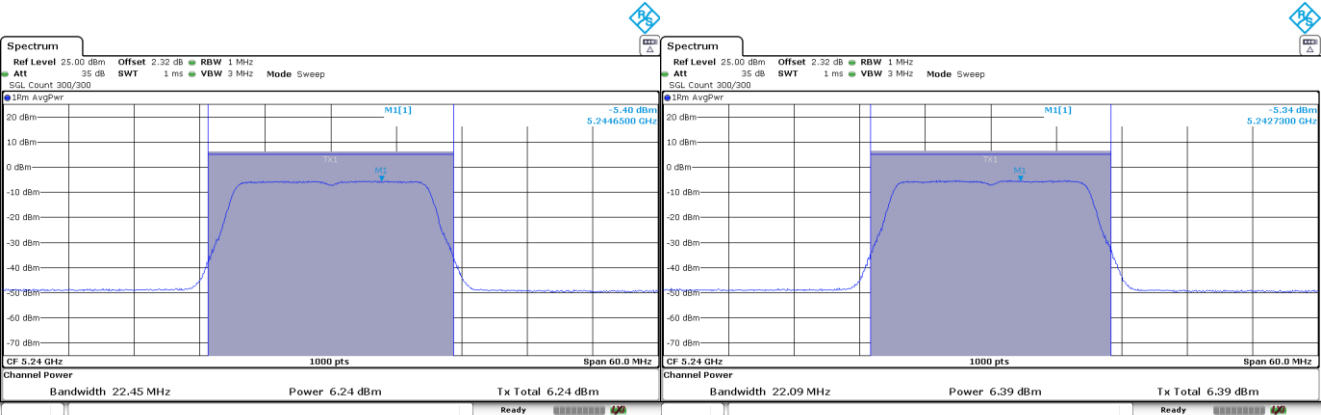
CORE 0

CORE 1



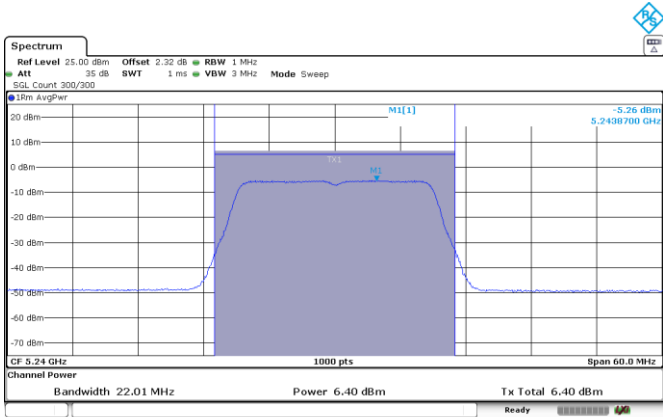
CORE 2

Channel 48



CORE 0

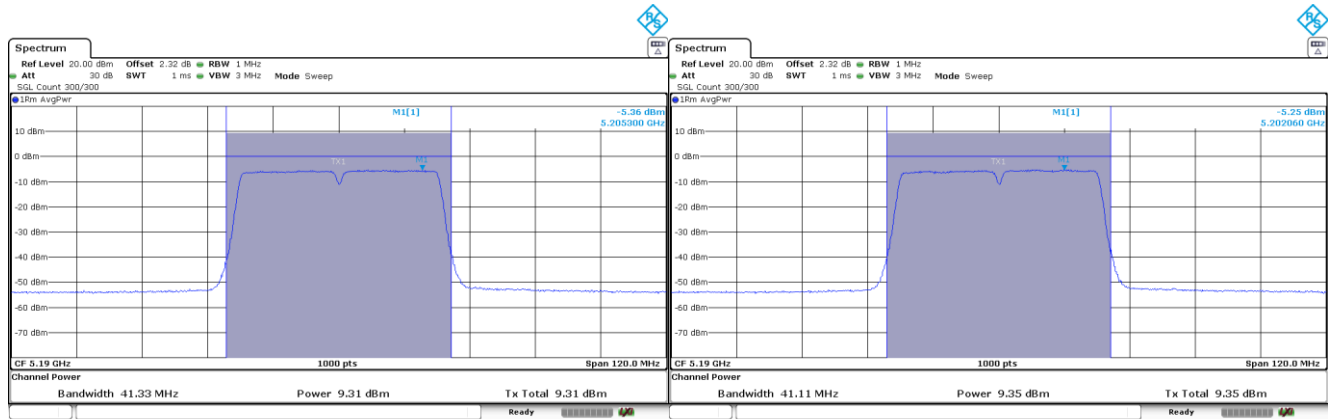
CORE 1



CORE 2

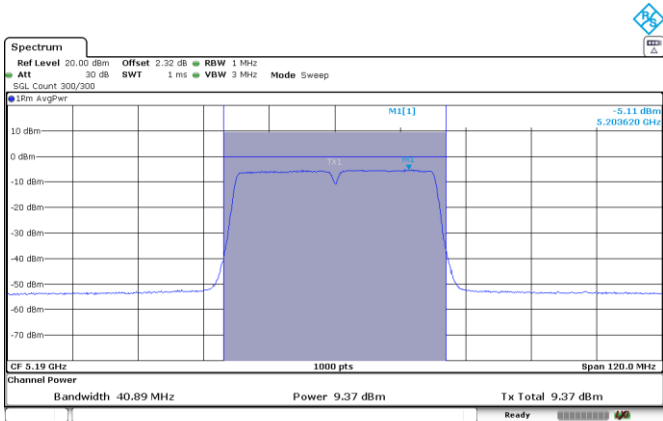
Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 38



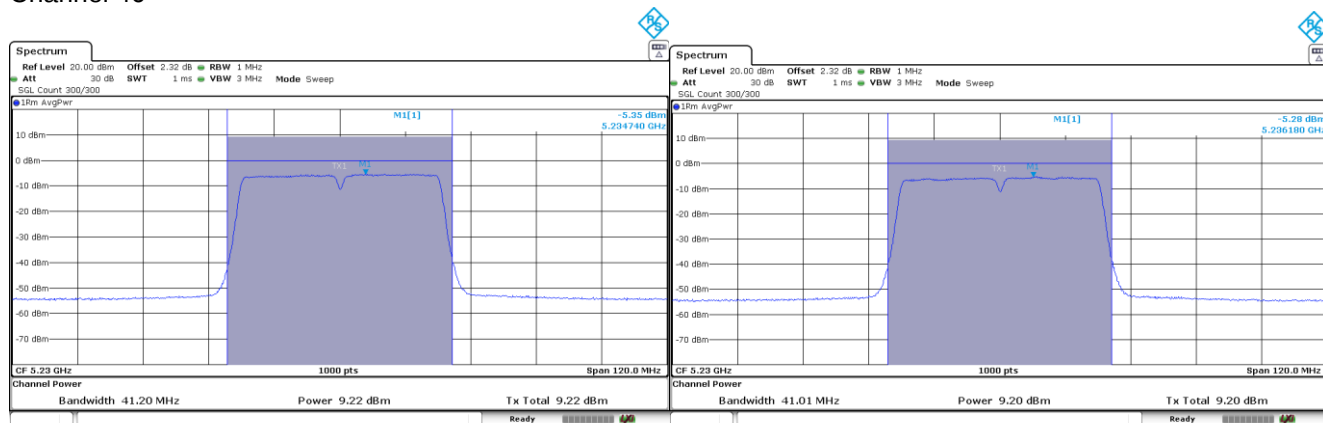
CORE 0

CORE 1



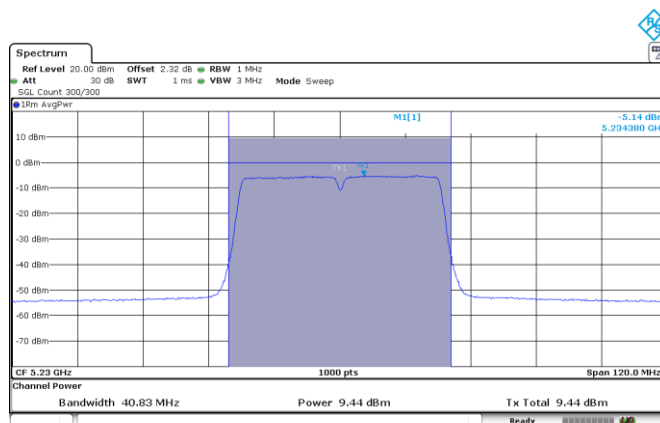
CORE 2

Channel 46



CORE 0

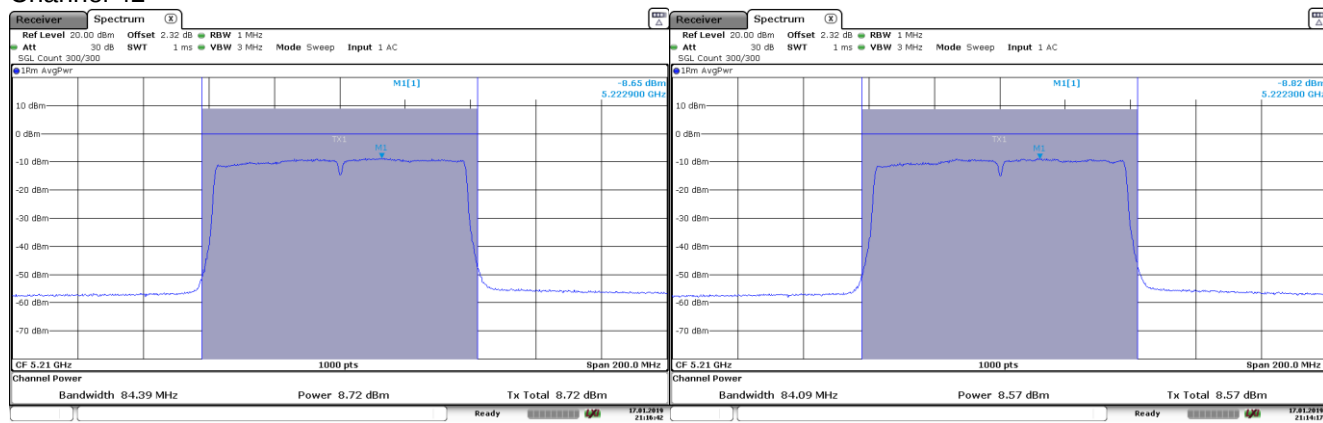
CORE 1



CORE 2

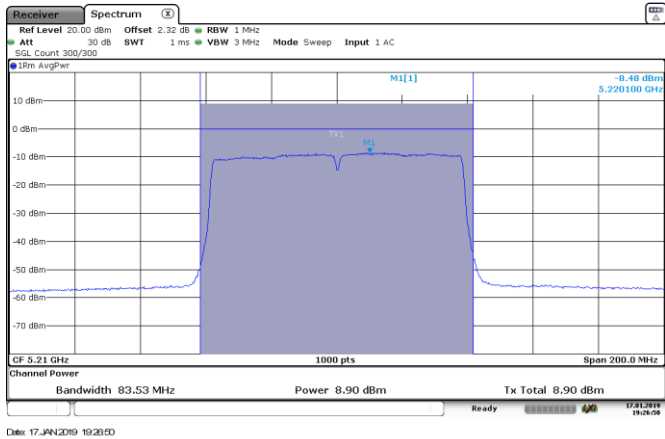
Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 42



CORE 0

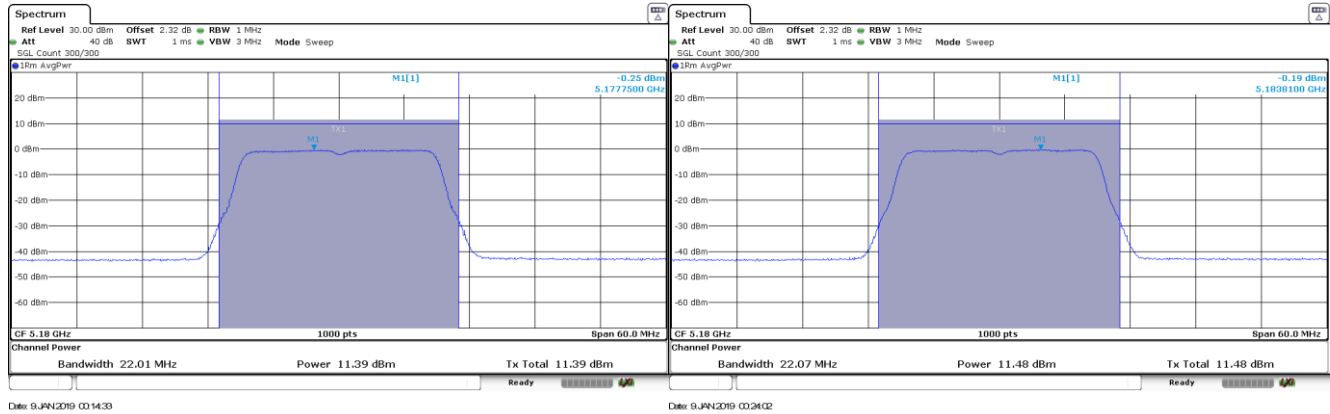
CORE 1



CORE 2

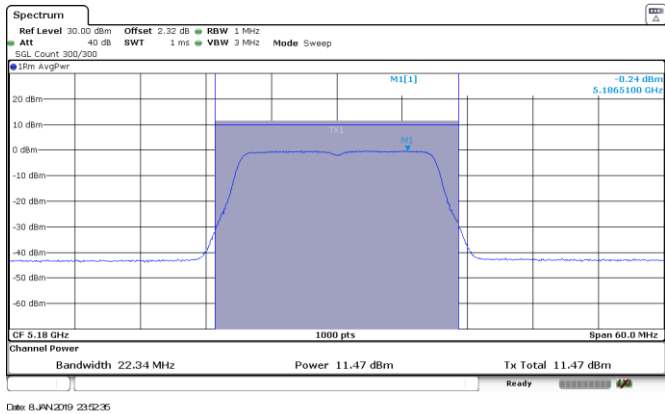
Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 36



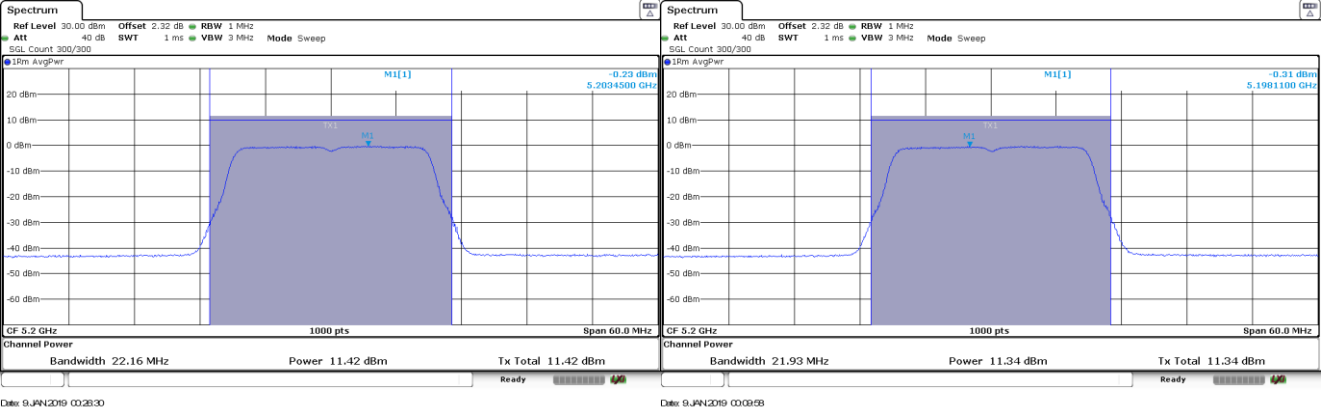
CORE 0

CORE 1

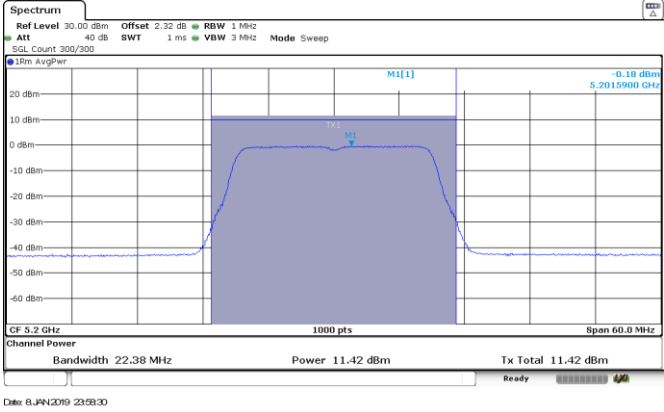


CORE 2

Channel 40



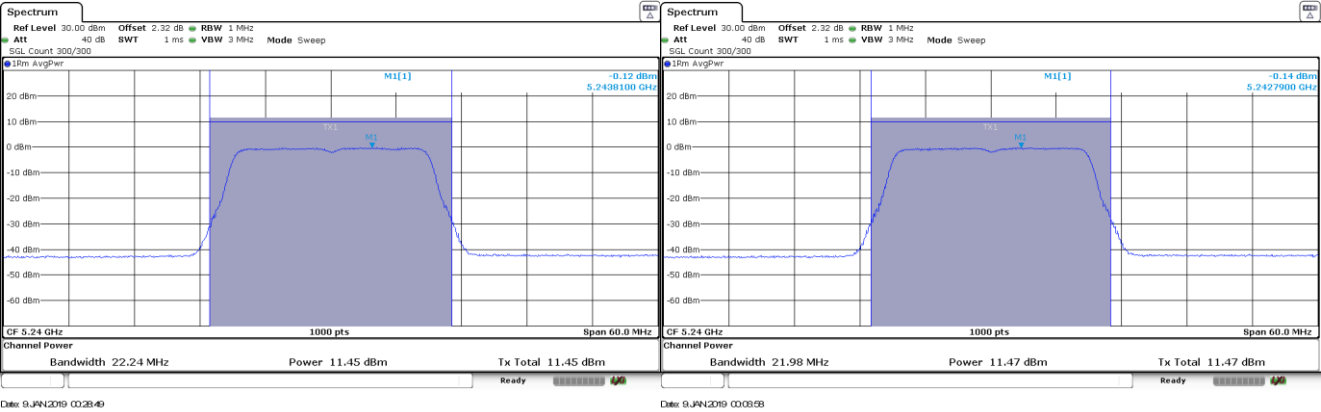
CORE 0



CORE 1

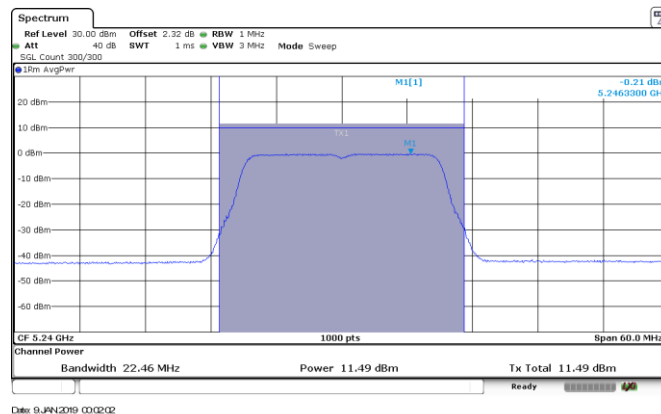
CORE 2

Channel 48



CORE 0

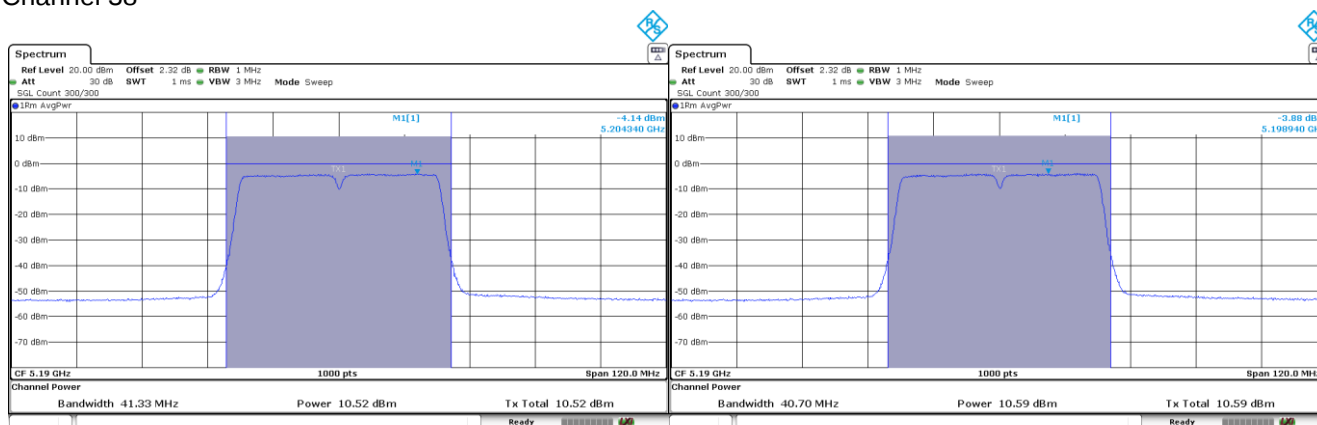
CORE 1



CORE 2

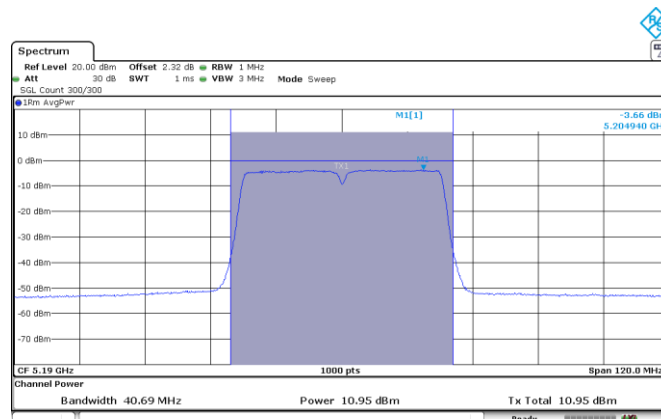
Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 38



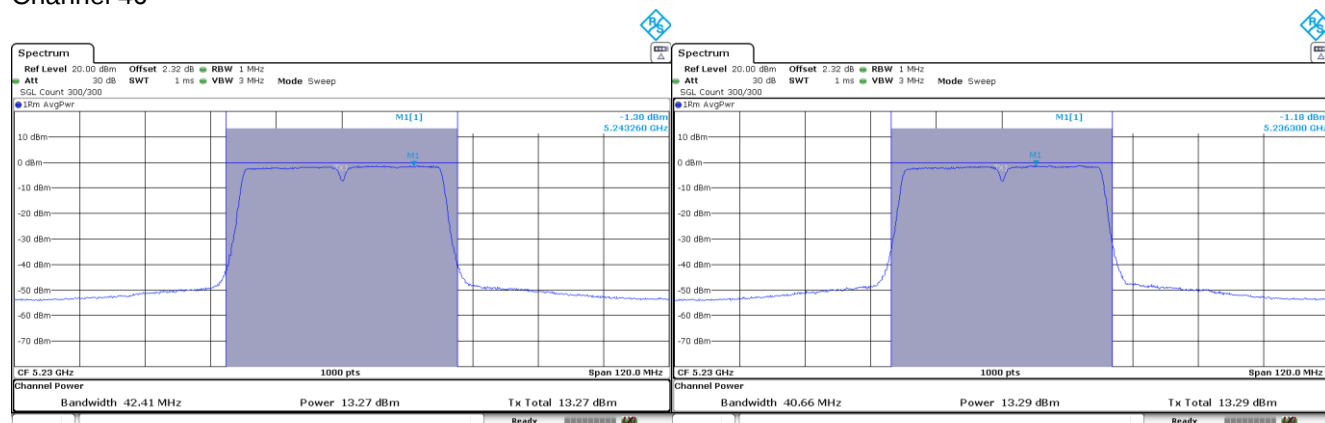
CORE 0

CORE 1



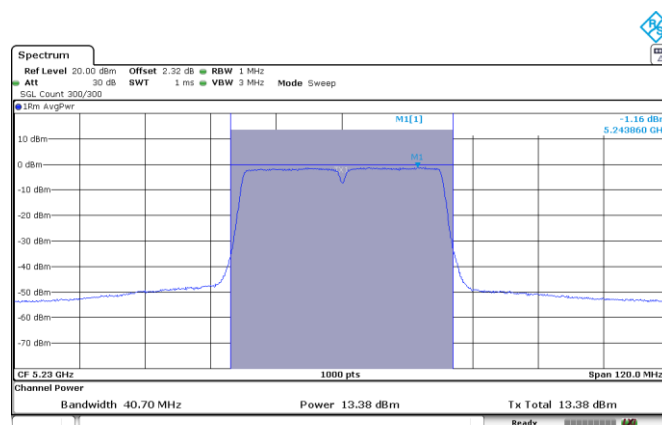
CORE 2

Channel 46



CORE 0

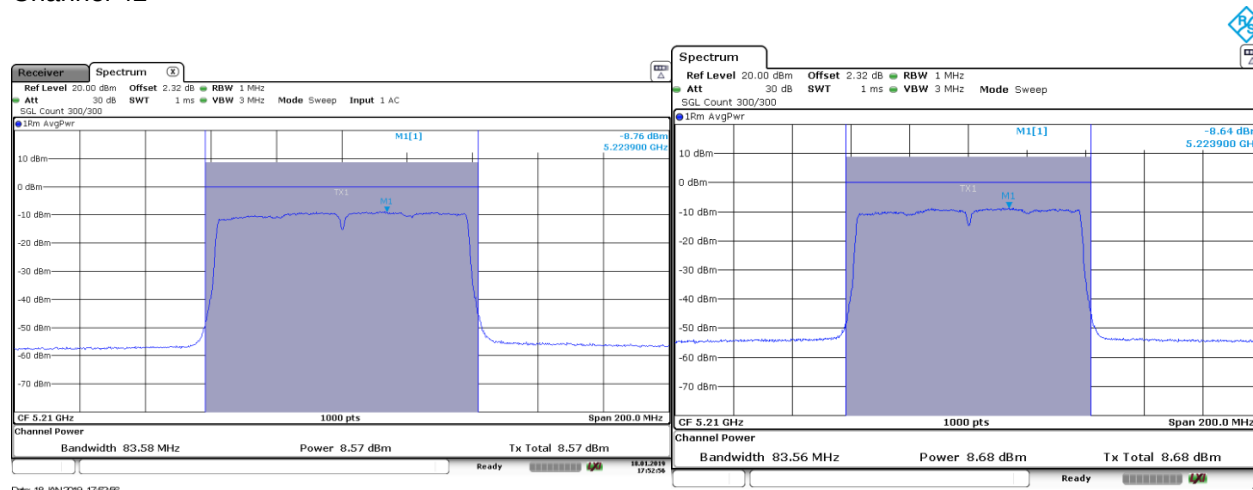
CORE 1



CORE 2

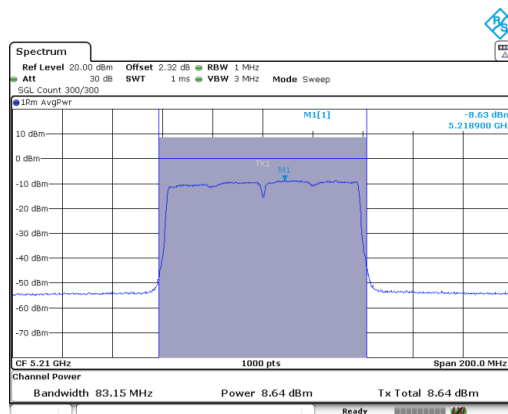
Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 42



CORE 0

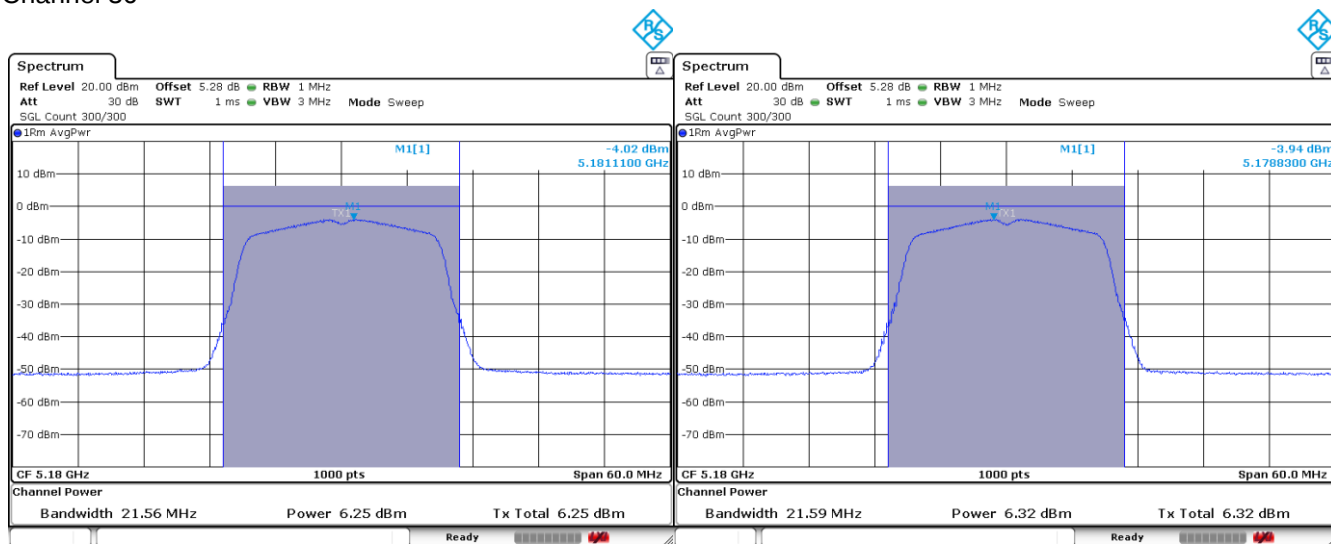
CORE 1



CORE 2

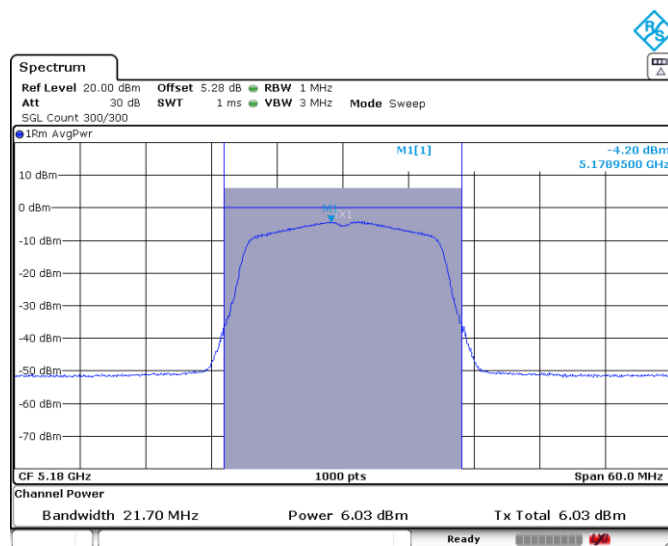
Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 36



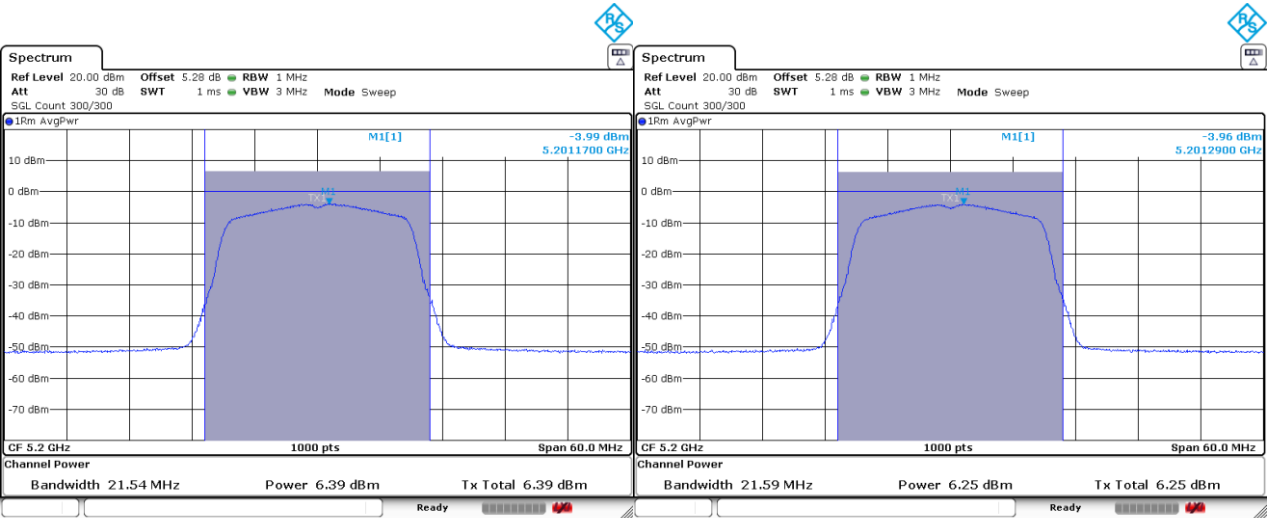
CORE 0

CORE 1



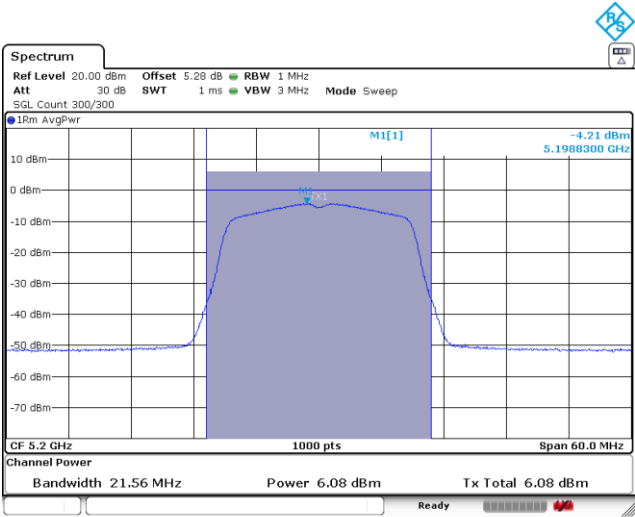
CORE 2

Channel 40



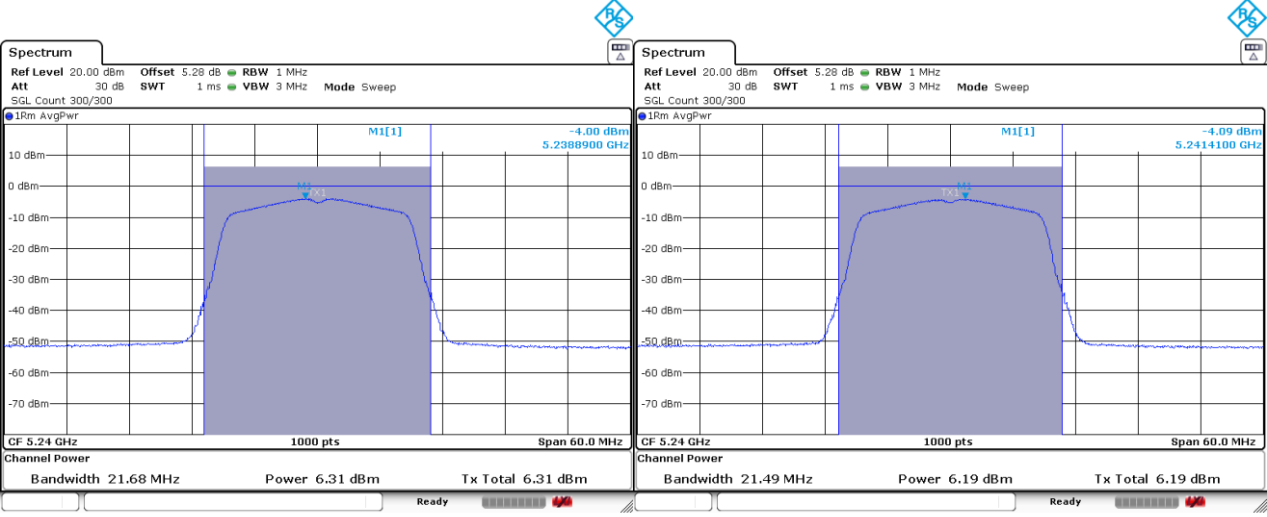
CORE 0

CORE 1



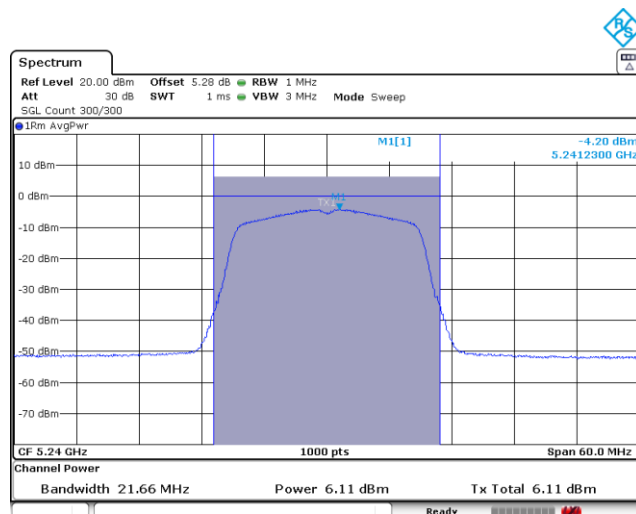
CORE 2

Channel 48



CORE 0

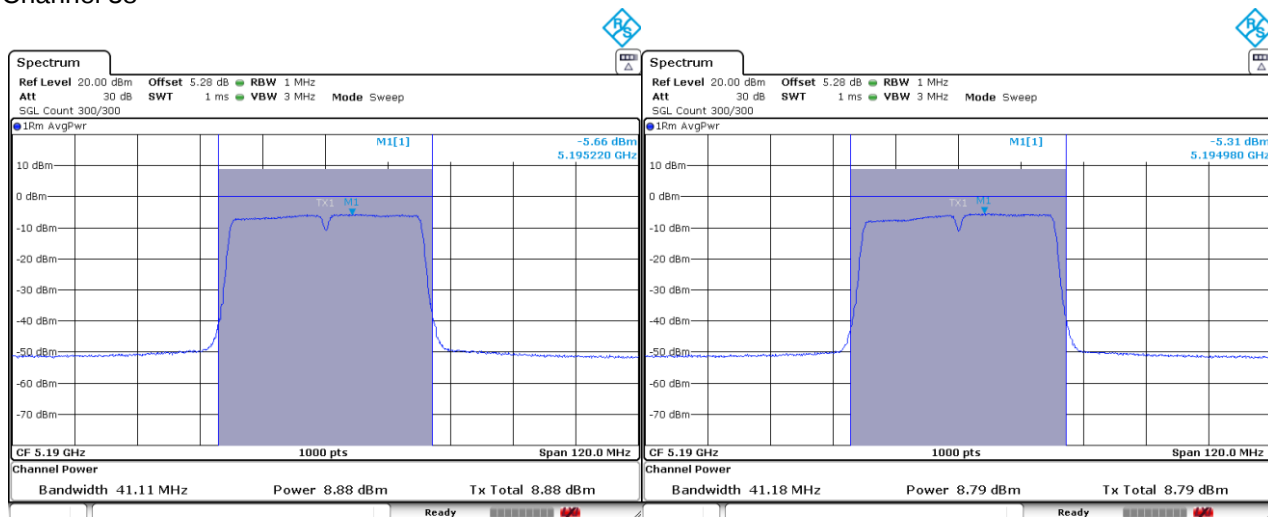
CORE 1



CORE 2

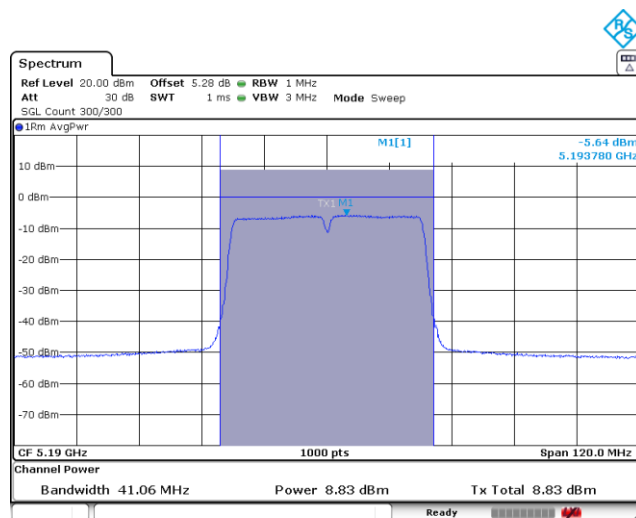
Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 38



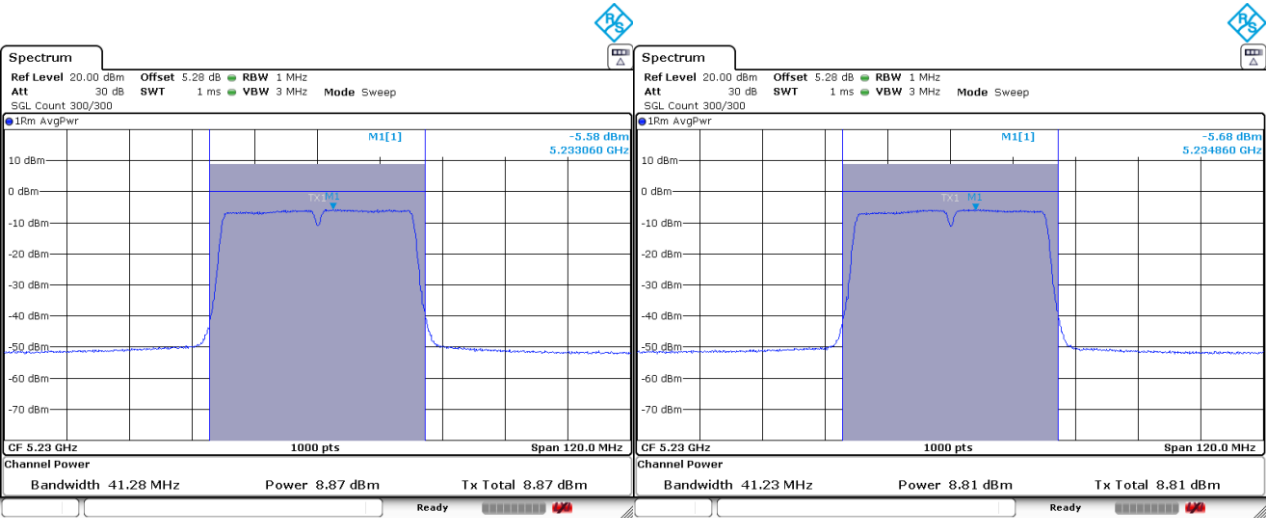
CORE 0

CORE 1



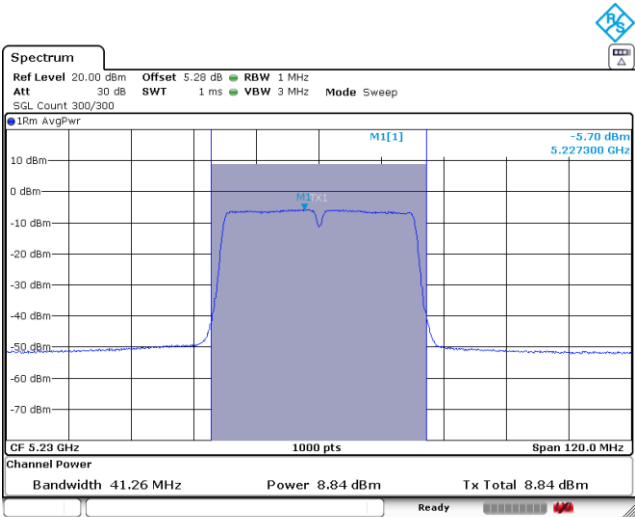
CORE 2

Channel 46



CORE 0

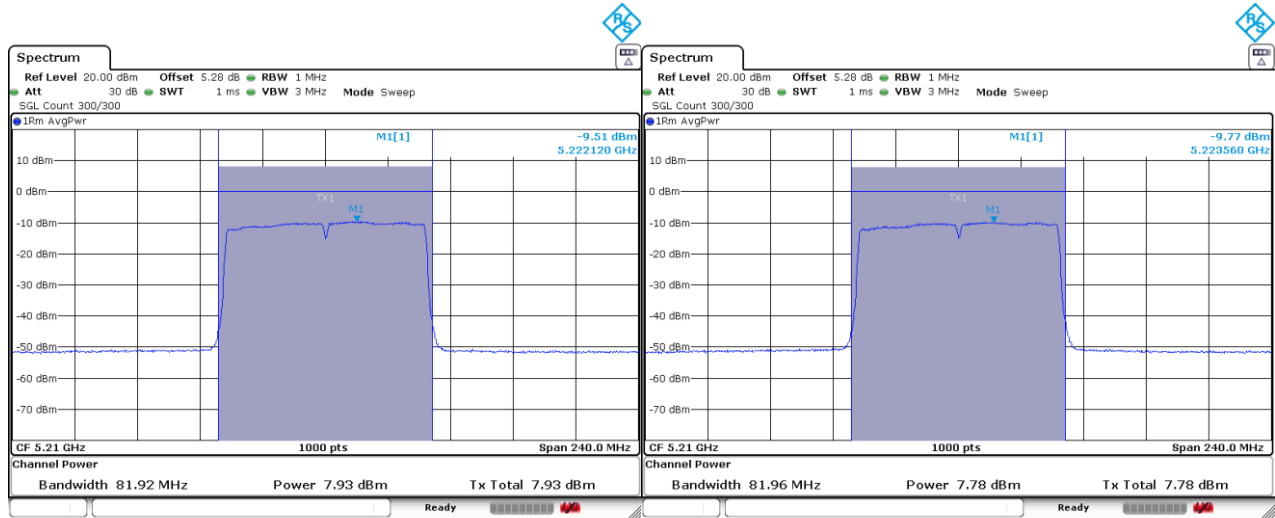
CORE 1



CORE 2

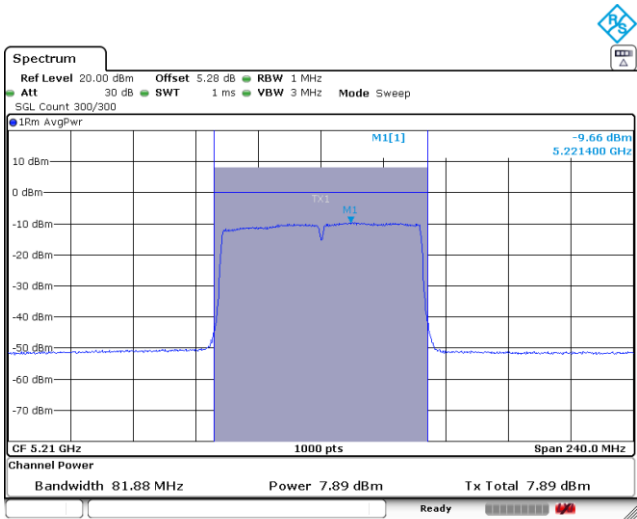
Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 42



CORE 0

CORE 1



CORE 2

FCC Section 15.407 Subclause (a) (1) (iv). Transmitter Maximum Power Spectral Density / RSS-247 Clause 6.2.1.1. Transmitter EIRP Spectral Density

FCC 15.407: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

RSS-247: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RESULTS

The maximum power spectral density (PSD) was measured using the method according to point F) referencing E.2.b) (Method SA-1) and E.2.b) (Method SA-2) of Guidance 789033 D02 General UNII Test Procedures New Rules v02r01.

For all SISO and MIMO SDM modes of operation, the antenna gain is < 6 dBi.

For 2Tx CDD and 2Tx TxBF modes, the EUT has a directional antenna gain of 6.69 dBi. In accordance with Part 15.407 (a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. The limit has been reduced by 0.69 to 10.31 dBm.

For 3Tx CDD and 3Tx TxBF modes, the EUT has a directional antenna gain of 8.26 dBi. In accordance with Part 15.407 (a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. The limit has been reduced by 2.26 to 8.74 dBm.

The PSD test uses the same setup than the transmitter maximum conducted output power test. The result of the Peak PSD was measured by setting a marker on the peak of the signal and the results are in the tables below.

FCC power setting

Mode : 802.11a - 20MHz – SISO – CORE 2

	channel 36 5180 MHz	channel 40 5200 MHz	channel 48 5240 MHz
PSD (dBm/MHz)	4.52	8.75	8.83
PSD Limit (dBm/MHz)	11		
Margin (dB)	6.48	2.25	2.17
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 - 20MHz – SISO – CORE 2

	channel 36 5180 MHz	channel 40 5200 MHz	channel 48 5240 MHz
PSD (dBm/MHz)	4.23	8.46	8.16
PSD Limit (dBm/MHz)	11		
Margin (dB)	6.77	2.54	2.84
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

	channel 38 5190 MHz	channel 46 5230 MHz
PSD (dBm/MHz)	-3.16	4.64
Duty Cycle Correction Factor (dB)	0.10	0.10
PSD Corrected (dBm/MHz)	-3.06	4.74
PSD Limit (dBm/MHz)	11	
Margin (dB)	14.06	6.26
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 - 80MHz - SISO - CORE 2

	channel 42 5210 MHz
PSD (dBm/MHz)	-7.02
Duty Cycle Correction Factor (dB)	0.15
PSD Corrected (dBm/MHz)	-6.87
PSD Limit (dBm/MHz)	11
Margin (dB)	17.87
Measurement uncertainty (dB)	<±1.20

Mode : 802.11n HT20 - CDD - 20MHz - MIMO - CORE 1 & CORE 2

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	3.17	3.41	4.77	5.02	4.97	5.14
Combined PSD (dBm/MHz)	6.31		7.91		8.07	
PSD Limit (dBm/MHz)	10.31					
Margin (dB)	4		2.40		2.24	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 - CDD - 40MHz - MIMO - CORE 1 & CORE 2

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-3.73	-3.65	3.38	3.46
Duty Cycle Correction Factor (dB)	0.09	0.09	0.09	0.09
PSD Corrected (dBm/MHz)	-3.64	-3.56	3.47	3.55
Combined PSD (dBm/MHz)	-0.59		6.52	
PSD Limit (dBm/MHz)	10.31			
Margin (dB)	10.90		3.79	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 1 & CORE 2

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-8.23	-7.93
Duty Cycle Correction Factor (dB)	0.16	0.16
PSD corrected (dBm/MHz)	-8.07	-7.77
Combined PSD (dBm/MHz)	-4.91	
PSD Limit (dBm/MHz)	10.31	
Margin (dB)	15.21	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 1 & CORE 2

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	2.87	3.42	6.28	6.31	5.05	5.13
Combined PSD (dBm/MHz)	6.16		9.31		8.10	
PSD Limit (dBm/MHz)	11					
Margin (dB)	4.84		1.69		2.90	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 1 & CORE 2

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-3.98	-3.54	3.21	3.41
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14
PSD corrected (dBm/MHz)	-3.84	-3.40	3.35	3.55
Combined PSD (dBm/MHz)	-0.60		6.46	
PSD Limit (dBm/MHz)	11			
Margin (dB)	11.60		4.54	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 1 & CORE 2

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-8.45	-8.09
Duty Cycle Correction Factor (dB)	0.29	0.29
PSD corrected (dBm/MHz)	-8.16	-7.80
Combined PSD (dBm/MHz)	-4.96	
PSD Limit (dBm/MHz)	11	
Margin (dB)	15.96	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 1 & CORE 2

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	4.74	4.37	6.67	6.31	6.63	6.25
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
PSD corrected (dBm/MHz)	4.85	4.48	6.78	6.42	6.74	6.36
Combined PSD (dBm/MHz)	7.68		9.61		9.56	
PSD Limit (dBm/MHz)	10.31					
Margin (dB)	2.63		0.69		0.74	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 1 & CORE 2

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-4.39	-4.22	3.26	3.35
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13
PSD corrected (dBm/MHz)	-4.26	-4.09	3.39	3.48
Combined PSD (dBm/MHz)	-1.17		6.44	
PSD Limit (dBm/MHz)	10.31			
Margin (dB)	11.47		3.86	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 1 & CORE 2

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-9.75	-9.72
Duty Cycle Correction Factor (dB)	0.11	0.11
PSD corrected (dBm/MHz)	-9.64	-9.61
Combined PSD (dBm/MHz)	-6.61	
PSD Limit (dBm/MHz)	10.31	
Margin (dB)	16.92	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	1.49	1.88	1.78	1.91	2.51	2.24
Combined PSD (dBm/MHz)	6.49			7.00		
PSD Limit (dBm/MHz)	8.74					
Margin (dB)	2.25			1.74		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	2.12	2.26	2.28
Combined PSD (dBm/MHz)	6.99		
PSD Limit (dBm/MHz)	8.74		
Margin (dB)	1.75		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-3.76	-3.47	-3.77	1.44	1.34	1.25
Combined PSD (dBm/MHz)	1.11			6.12		
PSD Limit (dBm/MHz)	8.74					
Margin (dB)	7.64			2.63		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 38 5190 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-8.65	-8.82	-8.48
Duty Cycle Correction Factor (dB)	0.18	0.18	0.18
PSD corrected (dBm/MHz)	-8.47	-8.64	-8.30
Combined PSD (dBm/MHz)	-3.70		
PSD Limit (dBm/MHz)	8.74		
Margin (dB)	12.44		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	2.43	2.52	2.54	4.25	4.08	4.21
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
PSD corrected (dBm/MHz)	2.54	2.63	2.65	4.36	4.19	4.32
Combined PSD (dBm/MHz)	7.38			9.06		
PSD Limit (dBm/MHz)	11					
Margin (dB)	3.62			1.94		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	3.98	4.15	4.09
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11
PSD corrected (dBm/MHz)	4.09	4.26	4.20
Combined PSD (dBm/MHz)	8.96		
PSD Limit (dBm/MHz)	11		
Margin (dB)	2.04		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-4.14	-3.88	-3.66	2.19	2.18	2.32
Duty Cycle Correction Factor (dB)	0.22	0.22	0.22	0.22	0.22	0.22
PSD corrected (dBm/MHz)	-3.92	-3.66	-3.44	2.41	2.40	2.54
Combined PSD (dBm/MHz)	1.10			7.22		
PSD Limit (dBm/MHz)	11					
Margin (dB)	9.90			3.78		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 42 5210 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-8.76	-8.63	-8.64
Duty Cycle Correction Factor (dB)	0.37	0.37	0.37
PSD corrected (dBm/MHz)	-8.39	-8.26	-8.27
Combined PSD (dBm/MHz)	-3.54		
PSD Limit (dBm/MHz)	11		
Margin (dB)	14.54		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	3.07	3.03	3	3.57	3.48	3.44
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14	0.14	0.14
PSD corrected (dBm/MHz)	3.21	3.17	3.14	3.71	3.62	3.58
Combined PSD (dBm/MHz)	7.94			8.40		
PSD Limit (dBm/MHz)	8.74					
Margin (dB)	0.80			0.34		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	3.46	3.44	3.53
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14
PSD corrected (dBm/MHz)	3.60	3.58	3.67
Combined PSD (dBm/MHz)	8.38		
PSD Limit (dBm/MHz)	8.74		
Margin (dB)	0.36		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-4.65	-4.71	-4.75	1.32	1.10	1.28
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13	0.13	0.13
PSD corrected (dBm/MHz)	-4.52	-4.58	-4.62	1.45	1.23	1.41
Combined PSD (dBm/MHz)	0.20			6.14		
PSD Limit (dBm/MHz)	8.74					
Margin (dB)	8.54			2.61		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

	channel 42 5210 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-9.63	-9.63	-9.77
Duty Cycle Correction Factor (dB)	0.12	0.12	0.12
PSD corrected (dBm/MHz)	-9.51	-9.51	-9.64
Combined PSD (dBm/MHz)	-4.78		
PSD Limit (dBm/MHz)	8.74		
Margin (dB)	13.53		
Measurement uncertainty (dB)	<±1.20		

Canada power setting

Mode : 802.11a - 20MHz – SISO – CORE 2

Declared antenna gain: 4.15 dBi

	channel 36 5180 MHz	channel 40 5200 MHz	channel 48 5240 MHz
PSD (dBm/MHz)	3.98	4.01	4.01
e.i.r.p PSD (dBm/MHz)	8.13	8.16	8.16
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	1.87	1.84	1.84
Measurement uncertainty (dB)	<±1.20		

Mode: 802.11n HT20 - 20MHz – SISO – CORE 2

Declared antenna gain: 4.15 dBi

	channel 36 5180 MHz	channel 40 5200 MHz	channel 48 5240 MHz
PSD (dBm/MHz)	3.69	3.70	3.66
e.i.r.p PSD (dBm/MHz)	7.84	7.85	7.81
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	2.16	2.15	2.19
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

Declared antenna gain: 4.15 dBi

	channel 38 5190 MHz	channel 46 5230 MHz
PSD (dBm/MHz)	-3.16	2.45
Duty Cycle Correction Factor (dB)	0.10	0.10
PSD Corrected (dBm/MHz)	-3.06	2.55
e.i.r.p PSD (dBm/MHz)	1.09	6.70
e.i.r.p PSD Limit (dBm/MHz)	10	
Margin (dB)	8.91	3.3
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 - 80MHz - SISO - CORE 2

Declared antenna gain: 4.15 dBi

	channel 42 5210 MHz
PSD (dBm/MHz)	-7.02
Duty Cycle Correction Factor (dB)	0.15
PSD Corrected (dBm/MHz)	-6.87
e.i.r.p PSD (dBm/MHz)	-2.72
e.i.r.p PSD Limit (dBm/MHz)	10
Margin (dB)	12.72
Measurement uncertainty (dB)	<±1.20

Mode : 802.11n HT20 - CDD - 20MHz - MIMO - CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-2.50	-2.36	-2.41	-2.17	-2.41	-2.26
Combined PSD (dBm/MHz)	0.58		0.72		0.68	
e.i.r.p PSD (dBm/MHz)	7.27		7.41		7.37	
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	2.73		2.59		2.63	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-3.73	-3.65	-1.69	-1.39
Duty Cycle Correction Factor (dB)	0.09	0.09	0.09	0.09
PSD Corrected (dBm/MHz)	-3.64	-3.56	-1.60	-1.30
Combined PSD (dBm/MHz)	-0.59		1.56	
e.i.r.p PSD (dBm/MHz)	6.10		8.28	
e.i.r.p PSD Limit (dBm/MHz)	10			
Margin (dB)	3.90		1.72	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-8.23	-7.93
Duty Cycle Correction Factor (dB)	0.16	0.16
PSD corrected (dBm/MHz)	-8.07	-7.77
Combined PSD (dBm/MHz)	-4.91	
e.i.r.p PSD (dBm/MHz)	1.78	
e.i.r.p PSD Limit (dBm/MHz)	10	
Margin (dB)	8.22	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 3.70 dBi

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	1.37	1.36	1.38	1.46	1.25	1.26
Combined PSD (dBm/MHz)	4.38		4.43		4.27	
e.i.r.p PSD (dBm/MHz)	8.08		8.13		7.97	
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	1.92		1.87		2.03	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 3.70 dBi

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-3.98	-3.54	0.27	0.79
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14
PSD corrected (dBm/MHz)	-3.84	-3.40	0.41	0.93
Combined PSD (dBm/MHz)	-0.60		3.69	
e.i.r.p PSD (dBm/MHz)	3.10		7.39	
e.i.r.p PSD Limit (dBm/MHz)	10			
Margin (dB)	6.90		2.61	
Measurement uncertainty (dB)	<±1.20			

Mode: 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 3.70 dBi

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-8.45	-8.09
Duty Cycle Correction Factor (dB)	0.29	0.29
PSD corrected (dBm/MHz)	-8.16	-7.80
Combined PSD (dBm/MHz)	-4.96	
e.i.r.p PSD (dBm/MHz)	-1.26	
e.i.r.p PSD Limit (dBm/MHz)	10	
Margin (dB)	11.26	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 36 5180 MHz		channel 40 5200 MHz		channel 48 5240 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-0.89	-1.14	-0.91	-1.23	-0.89	-1.20
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
PSD corrected (dBm/MHz)	-0.78	-1.03	-0.80	-1.12	-0.78	-1.09
Combined PSD (dBm/MHz)	2.11		2.05		2.08	
e.i.r.p PSD (dBm/MHz)	8.80		8.74		8.77	
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	1.20		1.26		1.23	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 38 5190 MHz		channel 46 5230 MHz	
	CORE 1	CORE 2	CORE 1	CORE 2
PSD (dBm/MHz)	-4.04	-4.35	-2.45	-2.47
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13
PSD corrected (dBm/MHz)	-3.91	-4.22	-2.32	-2.34
Combined PSD (dBm/MHz)	-1.05		0.68	
e.i.r.p PSD (dBm/MHz)	5.64		7.37	
e.i.r.p PSD Limit (dBm/MHz)	10			
Margin (dB)	4.36		2.63	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 1 & CORE 2

Directional antenna gain: 6.69 dBi

	channel 42 5210 MHz	
	CORE 1	CORE 2
PSD (dBm/MHz)	-9.97	-9.77
Duty Cycle Correction Factor (dB)	0.11	0.11
PSD corrected (dBm/MHz)	-9.86	-9.66
Combined PSD (dBm/MHz)	-6.75	
e.i.r.p PSD (dBm/MHz)	-0.06	
e.i.r.p PSD Limit (dBm/MHz)	10	
Margin (dB)	10.06	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

for antenna gain 0.20 dB

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-5.72	-5.50	-5.39	-5.55	-5.44	-5.38
Combined PSD (dBm/MHz)	-0.76			-0.69		
e.i.r.p PSD (dBm/MHz)	7.50			7.57		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	2.50			2.43		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-5.40	-5.34	-5.26
Combined PSD (dBm/MHz)	-0.56		
e.i.r.p PSD (dBm/MHz)	7.70		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	2.30		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-5.36	-5.25	-5.11	-5.35	-5.28	-5.14
Combined PSD (dBm/MHz)	-0.47			-0.48		
e.i.r.p PSD (dBm/MHz)	7.79			7.78		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	2.21			2.22		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

	channel 38 5190 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-8.65	-8.82	-8.48
Duty Cycle Correction Factor (dB)	0.18	0.18	0.18
PSD corrected (dBm/MHz)	-8.47	-8.64	-8.30
Combined PSD (dBm/MHz)	-3.70		
e.i.r.p PSD (dBm/MHz)	4.56		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	5.44		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 3.50 dBi

for antenna gain: 0.00 dB

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-0.24	-0.25	-0.19	-0.18	-0.31	-0.23
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
PSD corrected (dBm/MHz)	-0.13	-0.14	-0.08	-0.07	-0.20	-0.12
Combined PSD (dBm/MHz)	4.66			4.64		
e.i.r.p PSD (dBm/MHz)	8.16			8.14		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	1.84			1.86		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-0.21	-0.14	-0.12
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11
PSD corrected (dBm/MHz)	-0.10	-0.03	-0.01
Combined PSD (dBm/MHz)	4.73		
e.i.r.p PSD (dBm/MHz)	8.23		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	1.77		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 3.50 dBi

for antenna gain: 0.00 dB

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-4.14	-3.88	-3.66	-1.30	-1.18	-1.16
Duty Cycle Correction Factor (dB)	0.22	0.22	0.22	0.22	0.22	0.22
PSD corrected (dBm/MHz)	-3.92	-3.66	-3.44	-1.08	-0.96	-0.94
Combined PSD (dBm/MHz)	1.10			3.78		
e.i.r.p PSD (dBm/MHz)	4.60			7.28		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	5.40			2.72		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 3.50 dBi

	channel 42 5210 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-8.76	-8.63	-8.64
Duty Cycle Correction Factor (dB)	0.37	0.37	0.37
PSD corrected (dBm/MHz)	-8.39	-8.26	-8.27
Combined PSD (dBm/MHz)	-3.54		
e.i.r.p PSD (dBm/MHz)	-0.04		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	10.04		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

	channel 36 5180 MHz			channel 40 5200 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-4.02	-3.94	-4.20	-3.99	-3.96	-4.21
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14	0.14	0.14
PSD corrected (dBm/MHz)	-3.88	-3.88	-4.06	-3.85	-3.82	-4.07
Combined PSD (dBm/MHz)	0.85			0.85		
e.i.r.p PSD (dBm/MHz)	9.11			9.11		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	0.89			0.89		
Measurement uncertainty (dB)	<±1.20					

	channel 48 5240 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-4	-4.09	-4.20
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14
PSD corrected (dBm/MHz)	-3.86	-3.95	-4.06
Combined PSD (dBm/MHz)	0.81		
e.i.r.p PSD (dBm/MHz)	9.07		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	0.83		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

	channel 38 5190 MHz			channel 46 5230 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-5.66	-5.31	-5.64	-5.58	-5.68	-5.70
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13	0.13	0.13
PSD corrected (dBm/MHz)	-5.53	-5.18	-5.51	-5.45	-5.55	-5.57
Combined PSD (dBm/MHz)	-0.63			-0.75		
e.i.r.p PSD (dBm/MHz)	7.63			7.51		
e.i.r.p PSD Limit (dBm/MHz)	10					
Margin (dB)	2.37			2.49		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional antenna gain: 8.26 dBi

	channel 42 5210 MHz		
	CORE 0	CORE 1	CORE 2
PSD (dBm/MHz)	-9.77	-9.51	-9.66
Duty Cycle Correction Factor (dB)	0.12	0.12	0.12
PSD corrected (dBm/MHz)	-9.65	-9.39	-9.54
Combined PSD (dBm/MHz)	-4.75		
e.i.r.p PSD (dBm/MHz)	3.51		
e.i.r.p PSD Limit (dBm/MHz)	10		
Margin (dB)	6.49		
Measurement uncertainty (dB)	<±1.20		

FCC Section 15.407(b)(1)(6) /RSS-247 6.2.1.2. Transmitter Out of Band Radiated Emissions

SPECIFICATION

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 EIRP of –27 dBm/MHz (68.23 dBμV/m at 3 m distance).

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

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

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

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

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-40 GHz.

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

Test performed on the following worst case channel 40 (5200MHz):

- 802. 11n HT20: MCS0 / MIMO (3Tx CDD) on Core 0 & Core 1 & Core 2

Frequency range 30 MHz-1000 MHz.

Note: The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious levels operating (radiated) closest to limit.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Uncertainty (dB)
72.835	Vertical	Quasi-Peak	25.10	40	14.90	± 3.88
120.776	Vertical	Quasi-Peak	29.50	43.5	14	± 3.88
144.837	Horizontal	Quasi-Peak	31	43.5	12.50	± 3.88
167.378	Horizontal	Quasi-Peak	33.70	43.5	9.80	± 3.88
191.263	Horizontal	Quasi-Peak	36.70	43.5	6.80	± 3.88

Frequency range 1 GHz-40 GHz

The results in the next tables show the maximum measured levels in the 1-40 GHz frequency range.

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

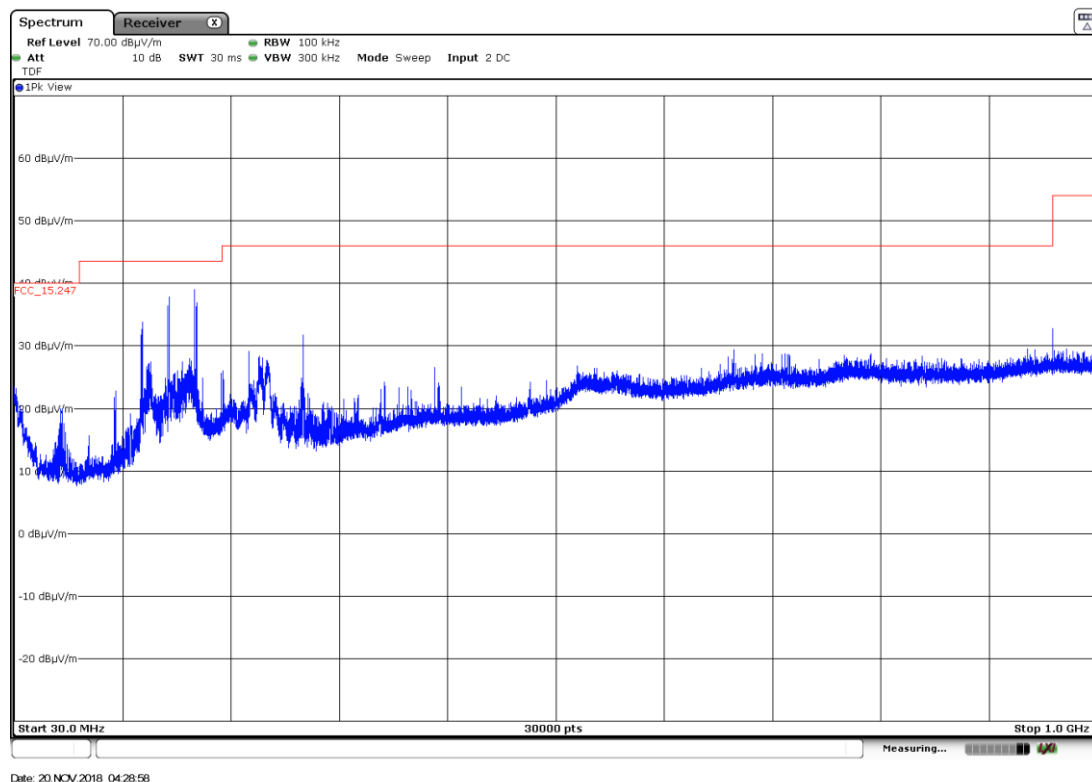
Channel 40 (5200MHz):

No radiated spurious signals were detected at less than 20 dB respect to the limit.

Measurement Uncertainty (dB) $< \pm 3.05$

Verdict: PASS

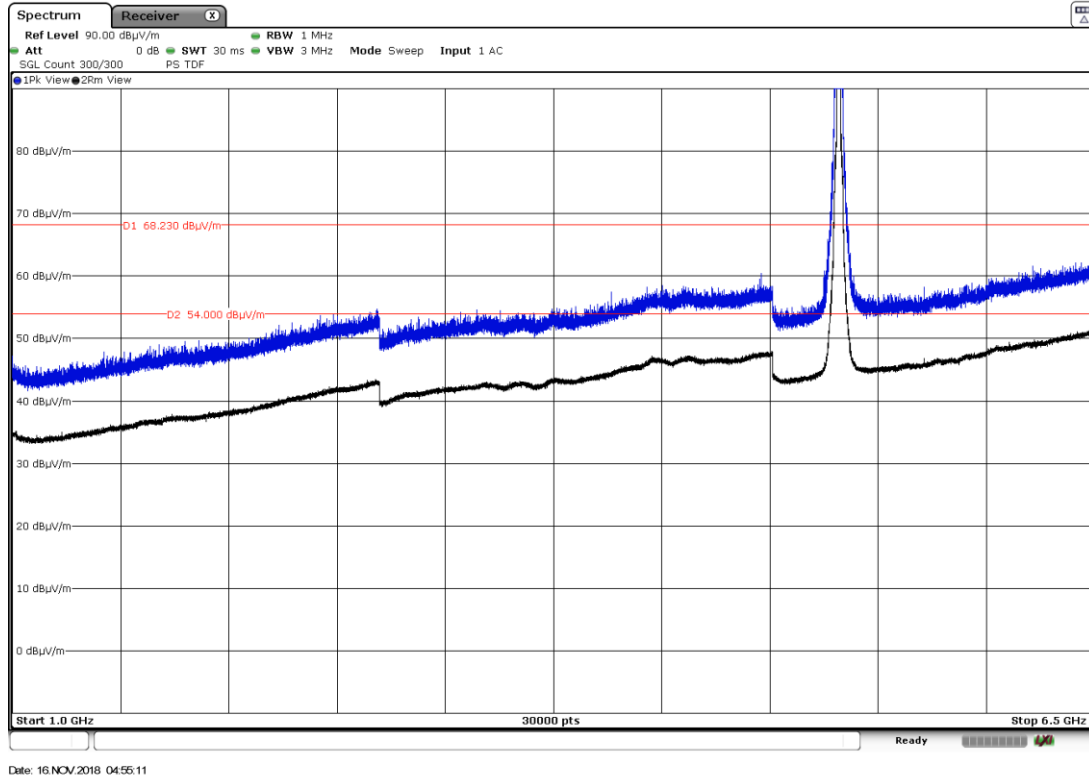
FREQUENCY RANGE 30 MHz-1000 MHz.



FREQUENCY RANGE 1 GHz to 6.5 GHz.

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 40 (5200MHz):

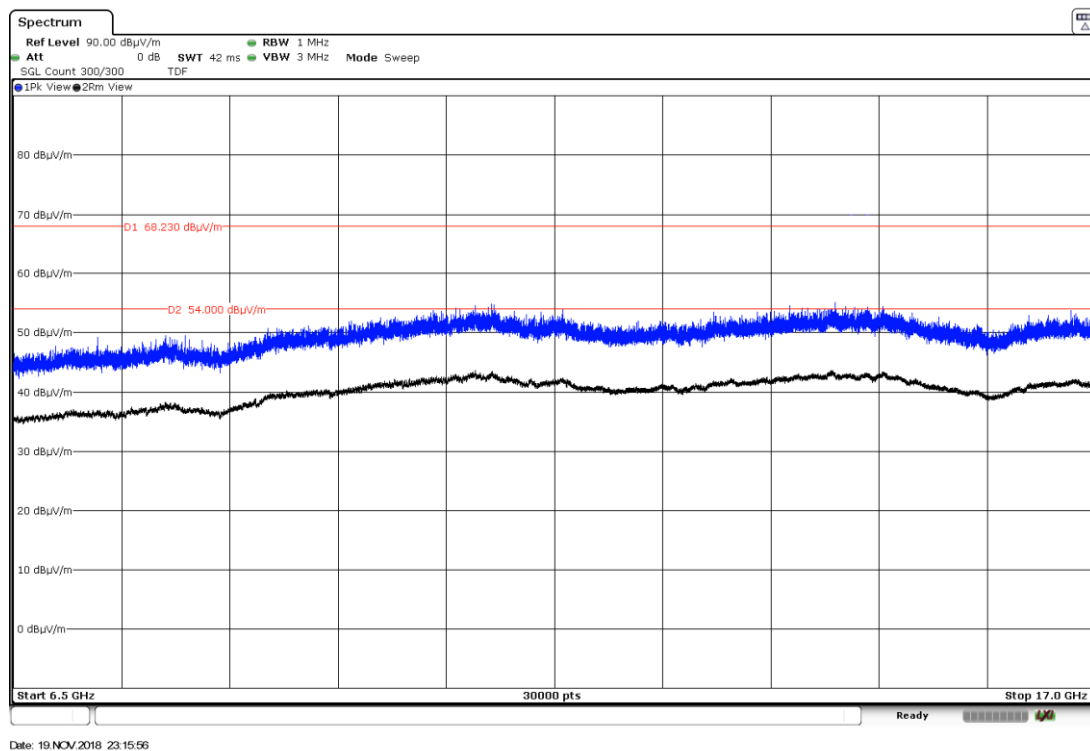


Note: The peak shown in the plot above the limit is the carrier frequency.

FREQUENCY RANGE 6.5 GHz to 17 GHz.

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

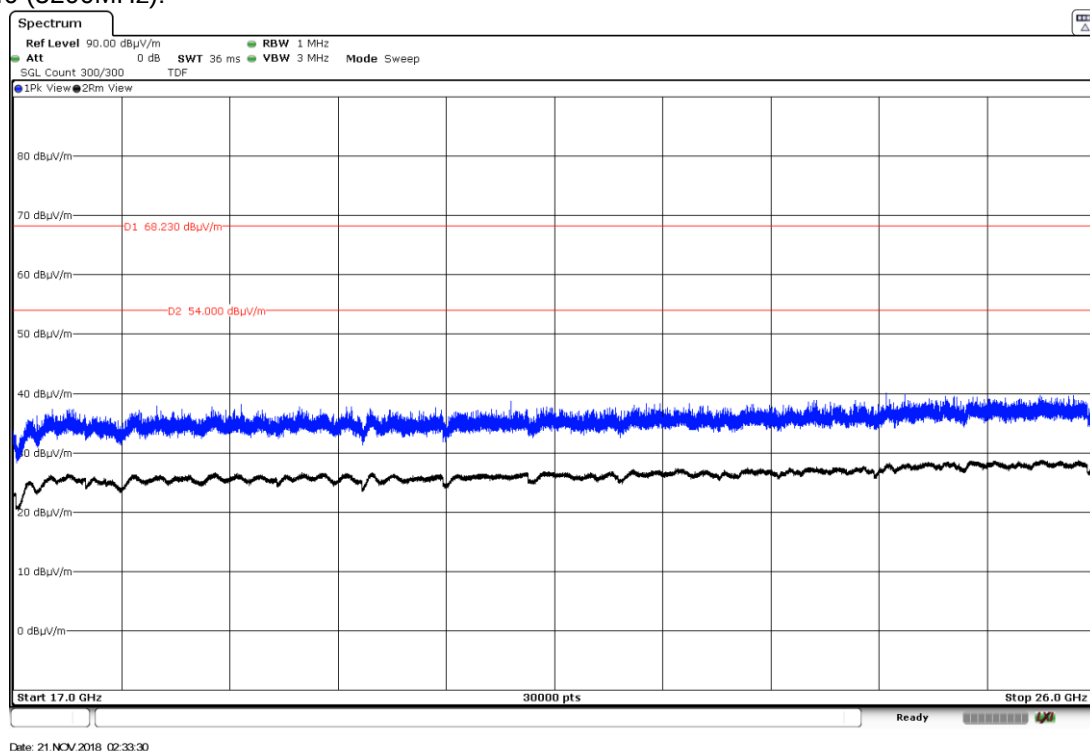
Channel 40 (5200MHz):



FREQUENCY RANGE 17 GHz to 26 GHz.

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

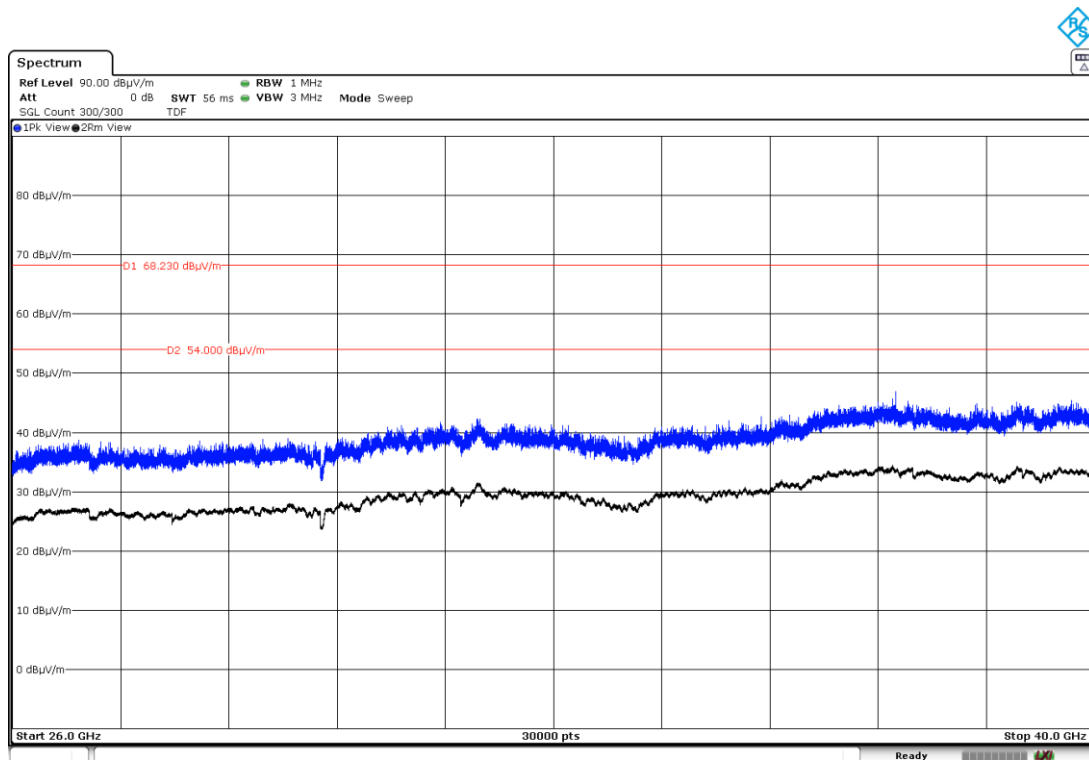
Channel 40 (5200MHz):



FREQUENCY RANGE 26 GHz to 40 GHz.

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 40 (5200MHz):



FCC Section 15.407 Subclause (b) (1) / RSS-247 6.2.1.2. Transmitter Band Edge Radiated Emissions.

SPECIFICATION

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 EIRP of –27 dBm/MHz (68.20 dBμV/m at 3 m distance).

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

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

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

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

RESULTS:

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

All emissions outside of the 5.15-5.35GHz band shall not exceed an EIRP of -27dBm/MHz. There are restricted bands of operation below band edge at 4.5-5.15 GHz also above the upper band edge at 5.35-5.46GHz therefore the provision of FCC Part 15.205 apply.

Field strength measurements using peak and average detector were performed in the restricted bands below 5.15GHz and above 5.35 GHz.

Test performed on the following worst cases modes in all relevant tests channels:

- 802.11a: 6 Mbit/s / SISO on Core 2
- 802.11n HT20: MCS0 / SISO on Core 2
- 802.11n HT40: MCS0 / SISO on Core 2
- 802.11ac VHT80: MCS0x1 / SISO on Core 2
- 802.11n HT20: MCS0 / MIMO / 2Tx CDD on Core 1 & Core 2
- 802.11n HT40: MCS0 / MIMO / 2Tx CDD on Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx CDD on Core 1 & Core 2
- 802.11n HT20: MCS8 / MIMO / 2Tx SDM on Core 1 & Core 2
- 802.11n HT40: MCS8 / MIMO / 2Tx SDM on Core 1 & Core 2
- 802.11ac VHT80: MCS0x2 / MIMO / 2Tx SDM on Core 1 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 2Tx TxBF on Core 1 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 2Tx TxBF on Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx TxBF on Core 1 & Core 2

- 802.11n HT20: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11n HT40: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2

- 802.11n HT20: MCS16 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11n HT40: MCS16 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x3 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2

Results for Mode: 802.11a - 20 MHz – SISO - CORE2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	68.52	74	5.48	<± 3.05	PASS
5149.827	Vertical	68.88	74	5.12	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	50.07	54	3.93	<± 3.05	PASS
5149.533	Vertical	50.11	54	3.89	<± 3.05	PASS

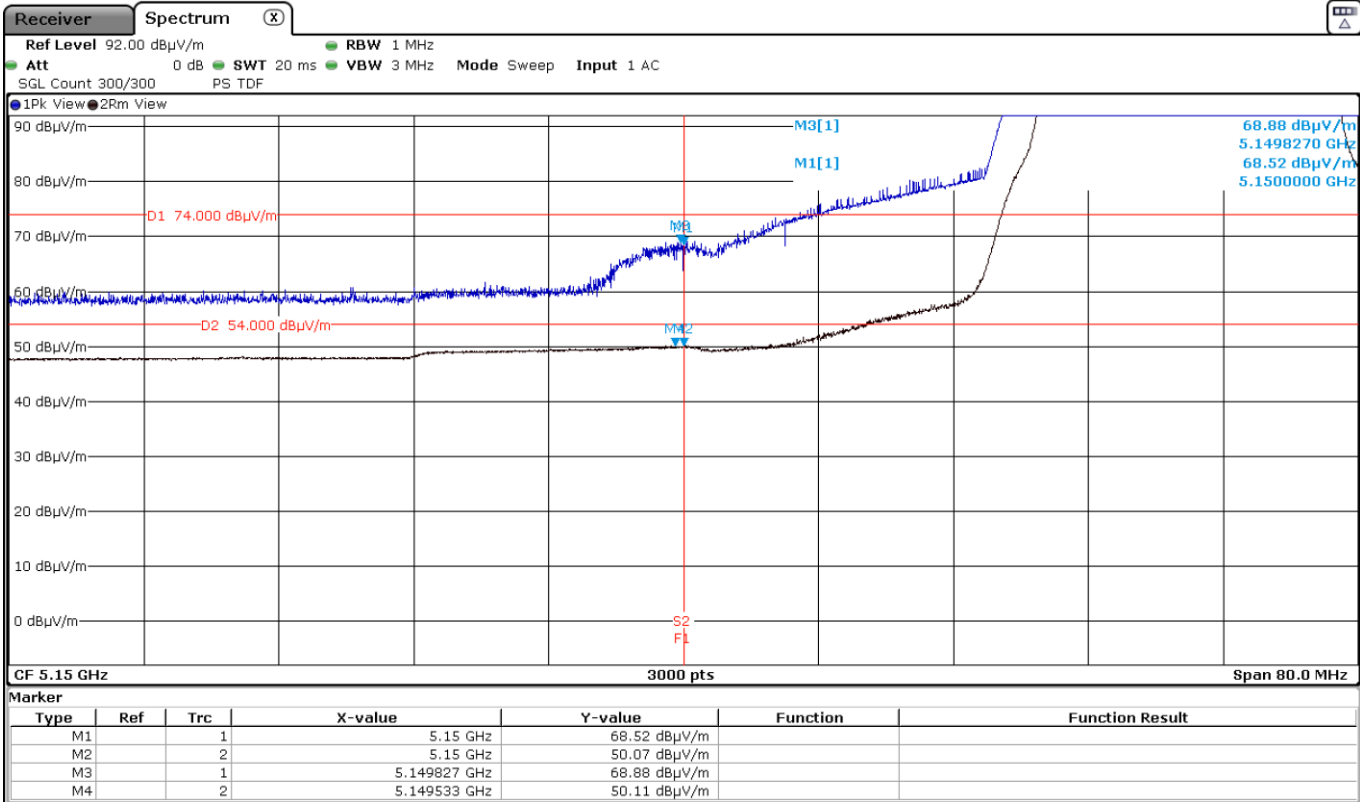
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.59	74	15.41	<± 3.05	PASS
5147.025	Vertical	60.28	74	13.72	<± 3.05	PASS

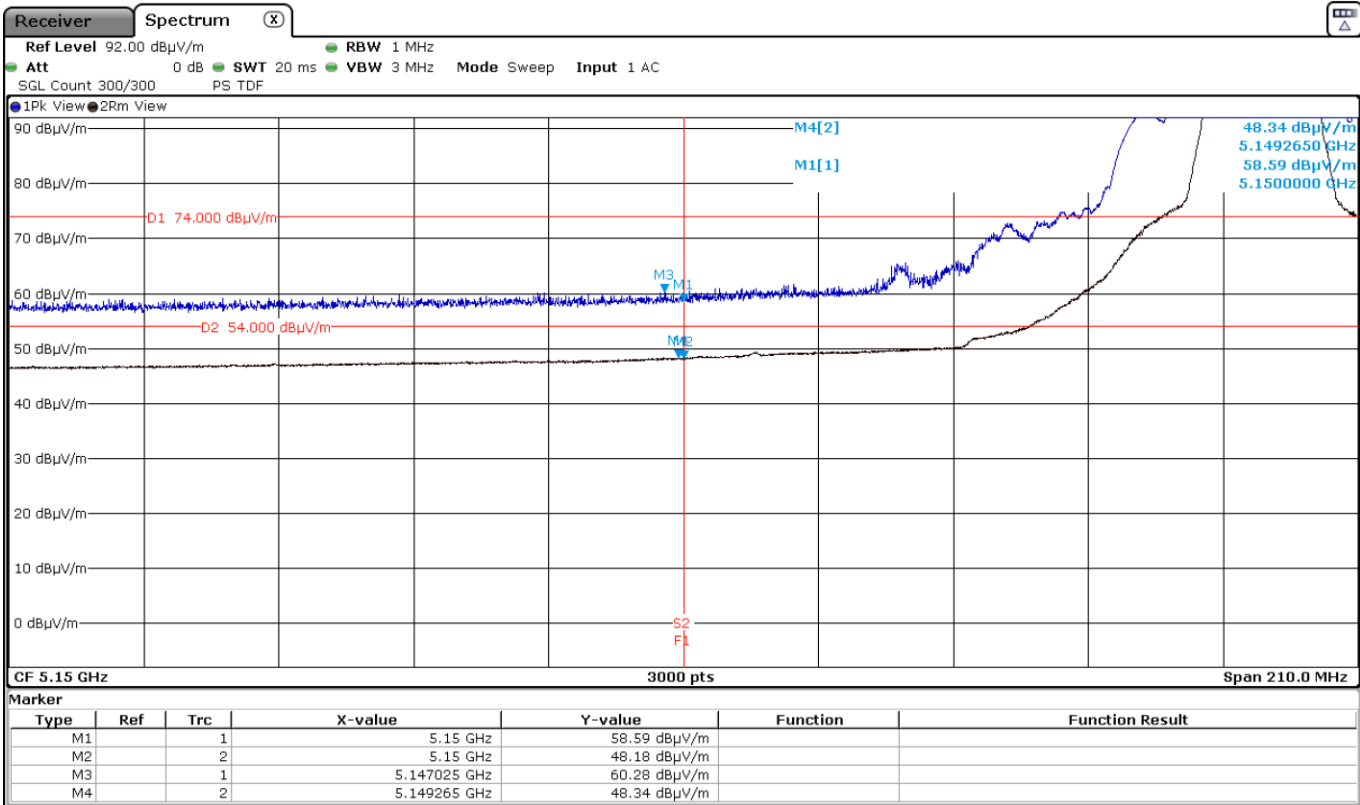
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.18	54	5.82	<± 3.05	PASS
5149.265	Vertical	48.34	54	5.66	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results: 802.11n HT20 - 20 MHz – SISO - CORE 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	64.89	74	9.11	<± 3.05	PASS
5149.960	Vertical	68.16	74	5.84	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	50.57	54	3.43	<± 3.05	PASS
5148.867	Vertical	50.82	54	3.18	<± 3.05	PASS

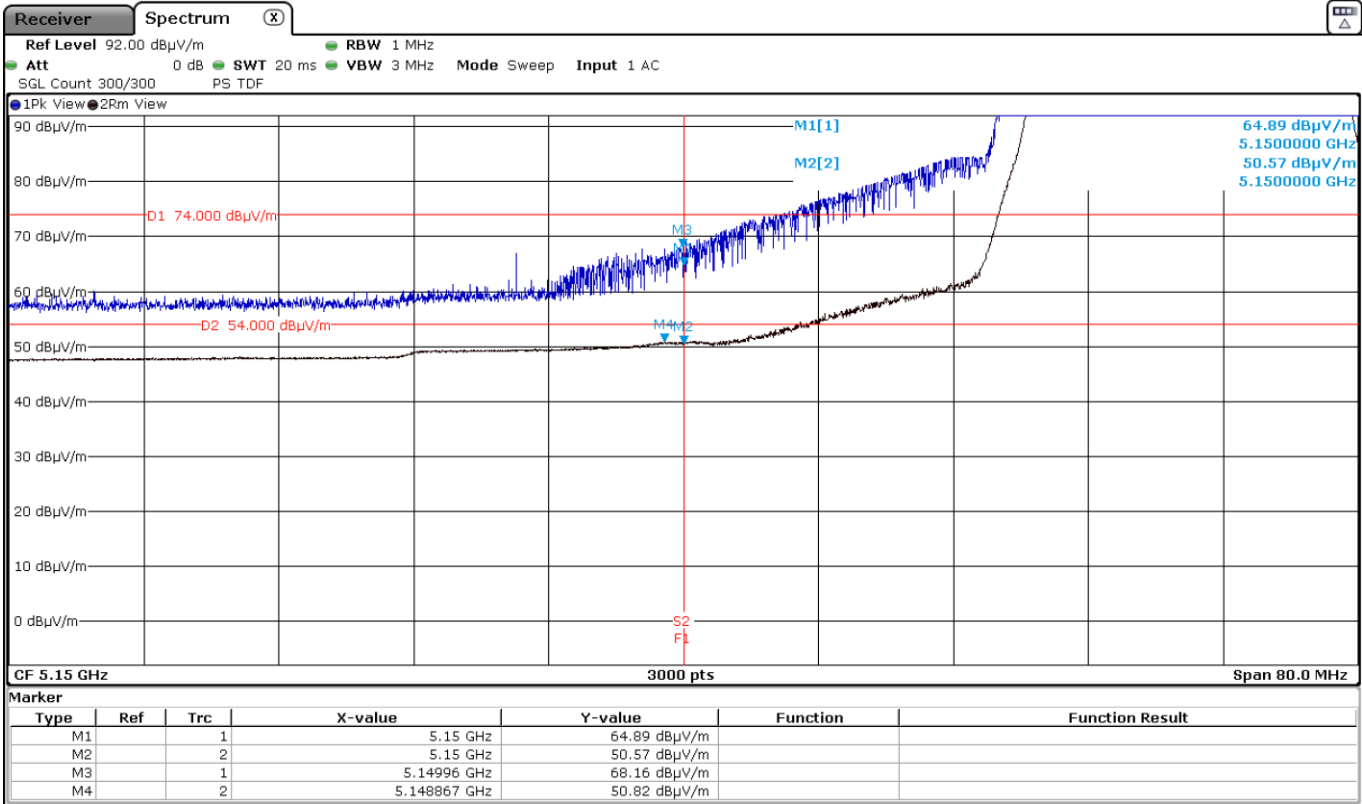
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	57.85	74	16.15	<± 3.05	PASS
5127.075	Vertical	60.61	74	13.39	<± 3.05	PASS

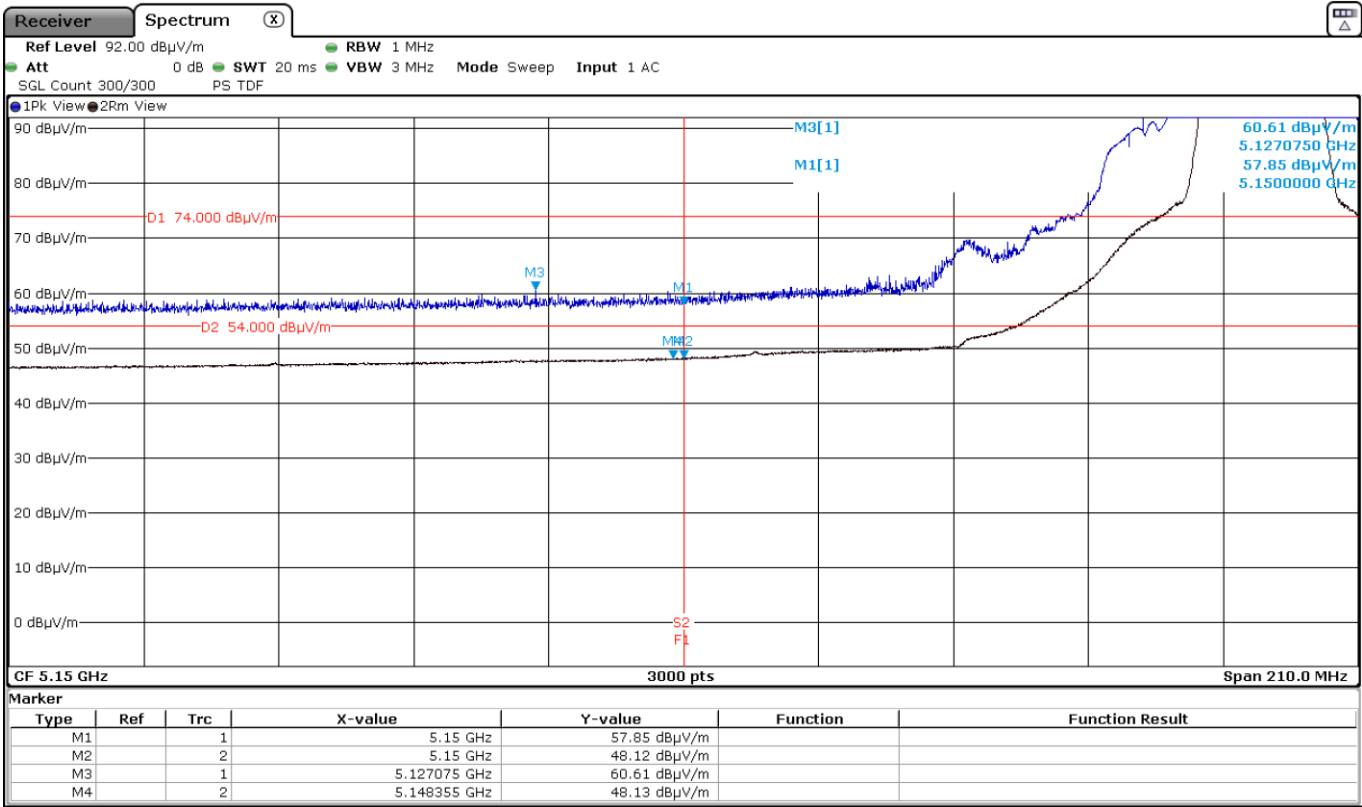
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.12	54	5.88	<± 3.05	PASS
5148.355	Vertical	48.13	54	5.87	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT20 – CDD - 20 MHz - MIMO - Core 1 + Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	64.55	74	8.45	<± 3.05	PASS
5149.747	Vertical	67.71	74	6.29	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	49.81	54	4.19	<± 3.05	PASS
5149.800	Vertical	50.01	54	3.99	<± 3.05	PASS

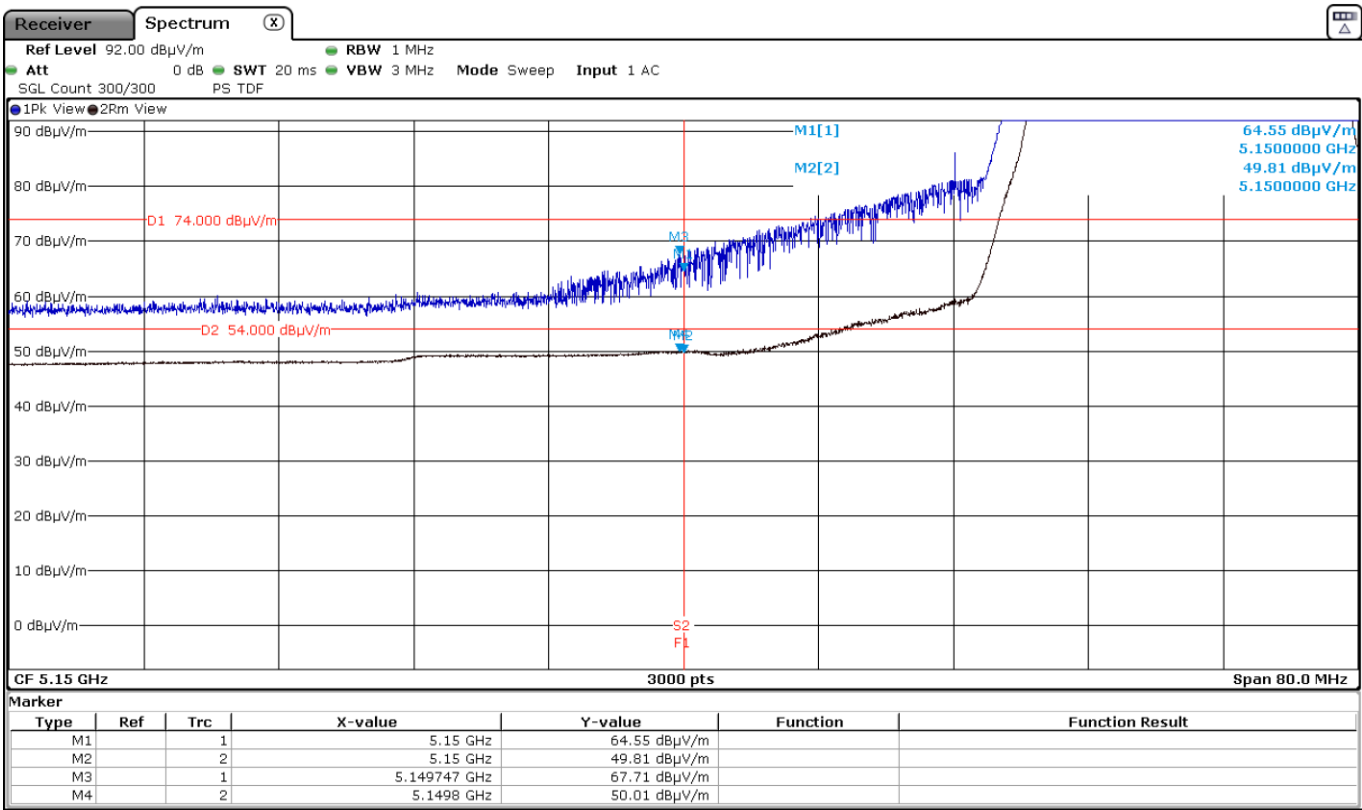
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.04	74	15.96	<± 3.05	PASS
5138.695	Vertical	58.89	74	15.11	<± 3.05	PASS

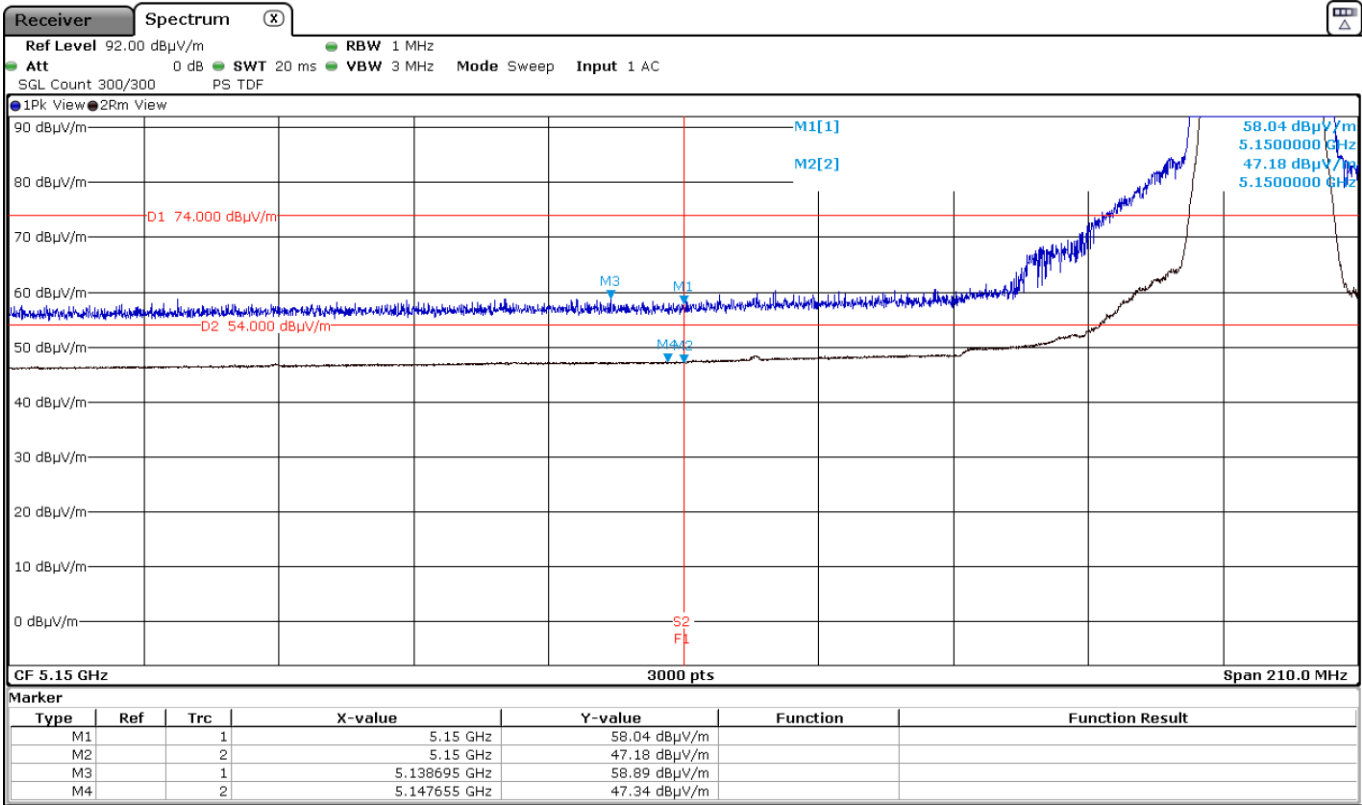
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.18	54	6.82	<± 3.05	PASS
5147.655	Vertical	47.34	54	6.66	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT20 – SDM - 20 MHz – MIMO - Core 1 + Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	66.98	74	7.02	<± 3.05	PASS
5149.720	Vertical	68.75	74	5.25	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.33	54	5.67	<± 3.05	PASS
5148.707	Vertical	48.86	54	5.14	<± 3.05	PASS

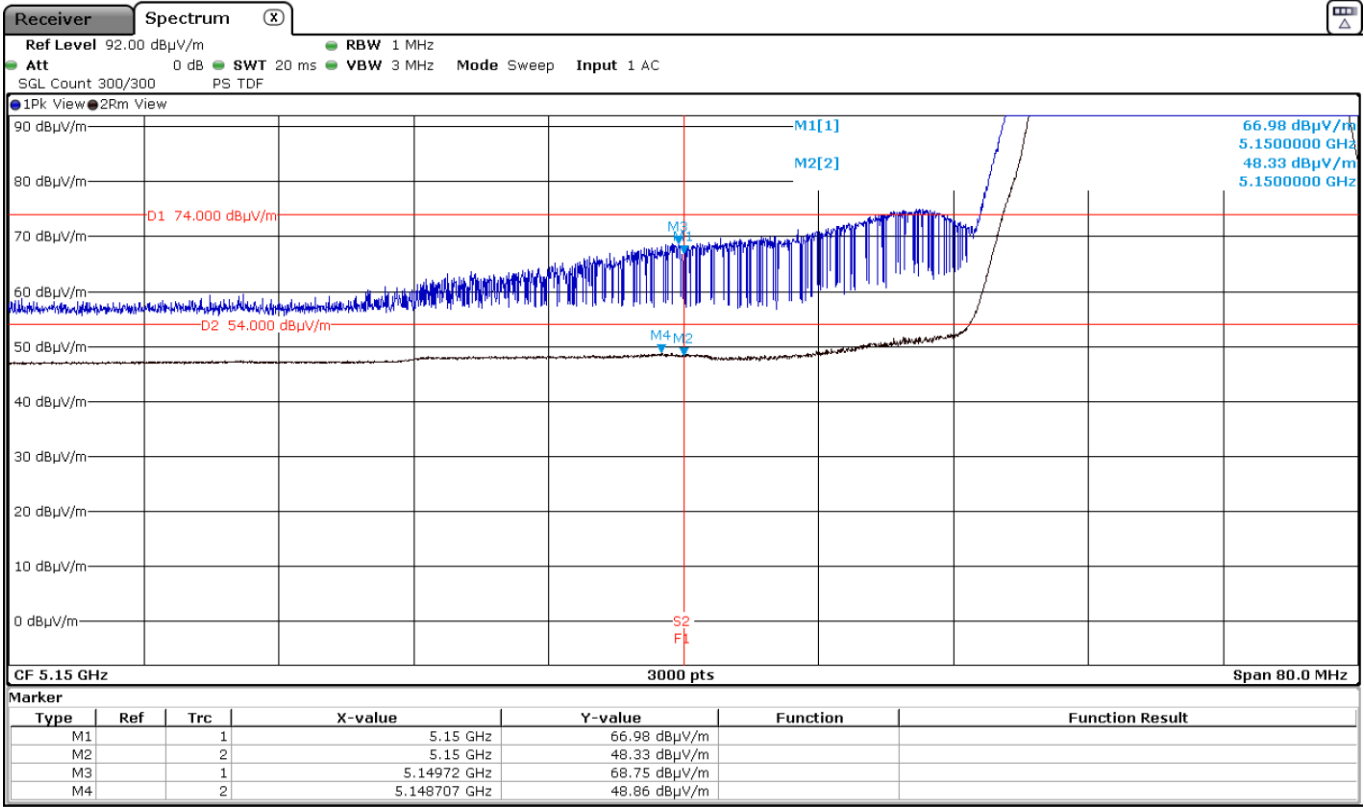
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	56.93	74	17.07	<± 3.05	PASS
5149.125	Vertical	59.53	74	14.47	<± 3.05	PASS

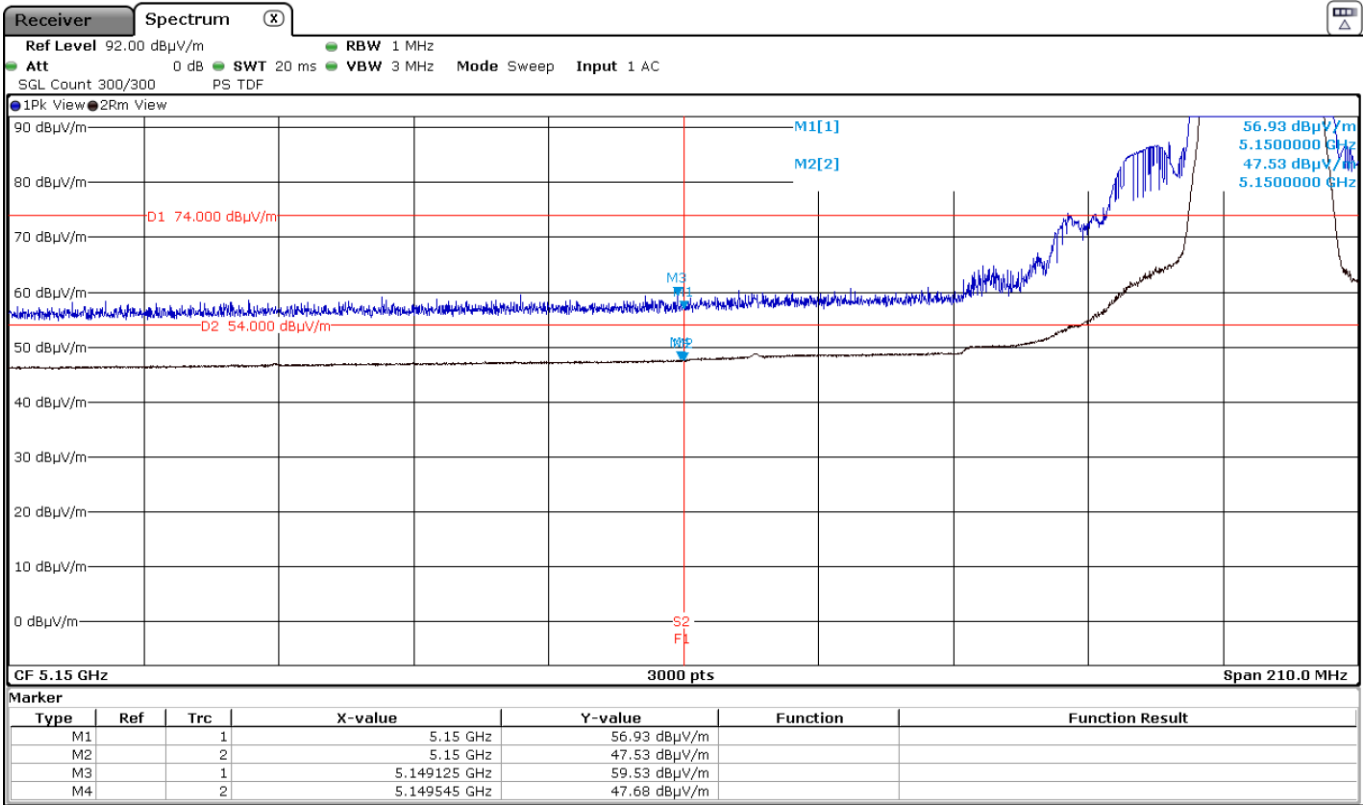
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.53	54	6.47	<± 3.05	PASS
5149.545	Vertical	47.68	54	6.32	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT20 – TxBF - 20 MHz – MIMO - Core 1+Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.12	74	15.88	<± 3.05	PASS
5148.253	Vertical	62.20	74	11.80	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	48.26	0.11	48.37	54	5.63	<± 3.05	PASS
5142.387	Vertical	48.81	0.11	48.92	54	5.08	<± 3.05	PASS

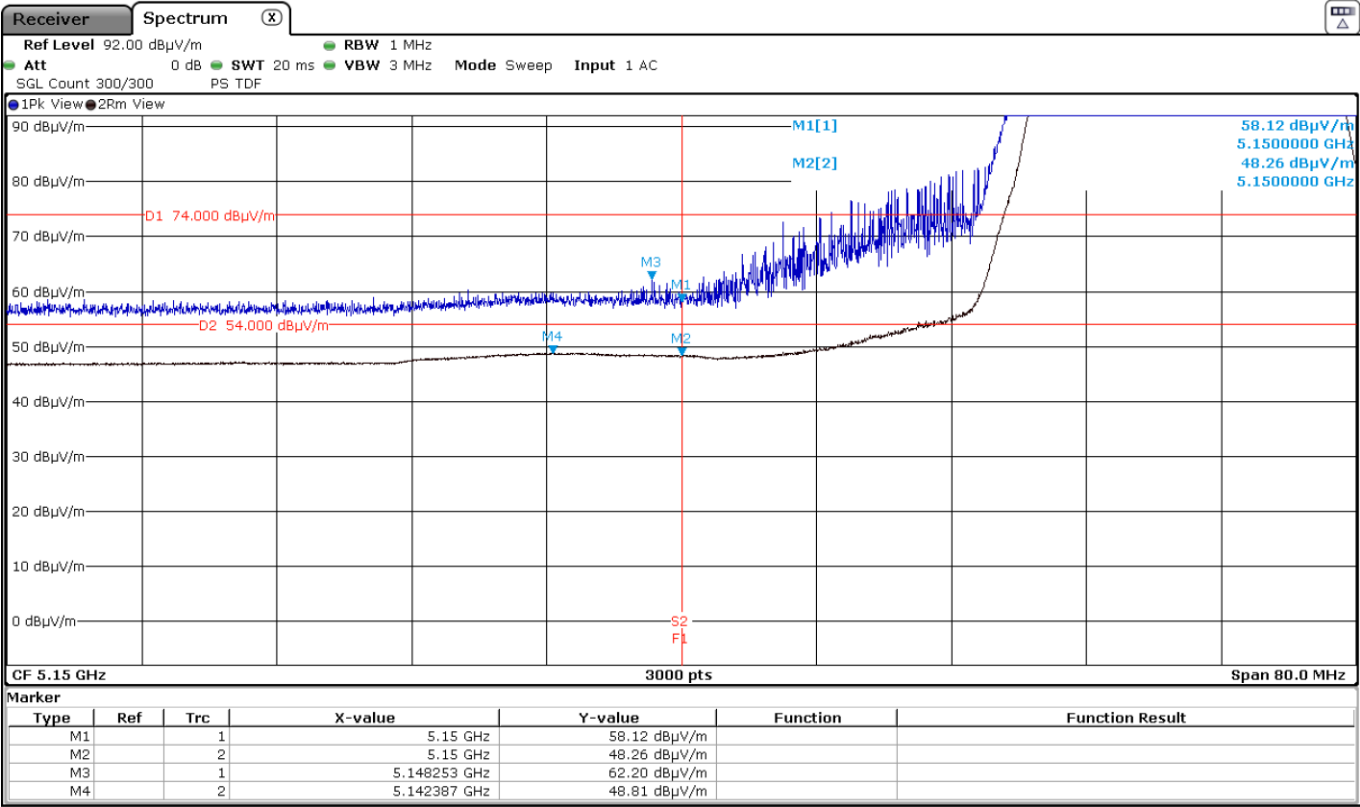
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	56.38	74	17.62	<± 3.05	PASS
5132.185	Vertical	58.90	74	15.10	<± 3.05	PASS

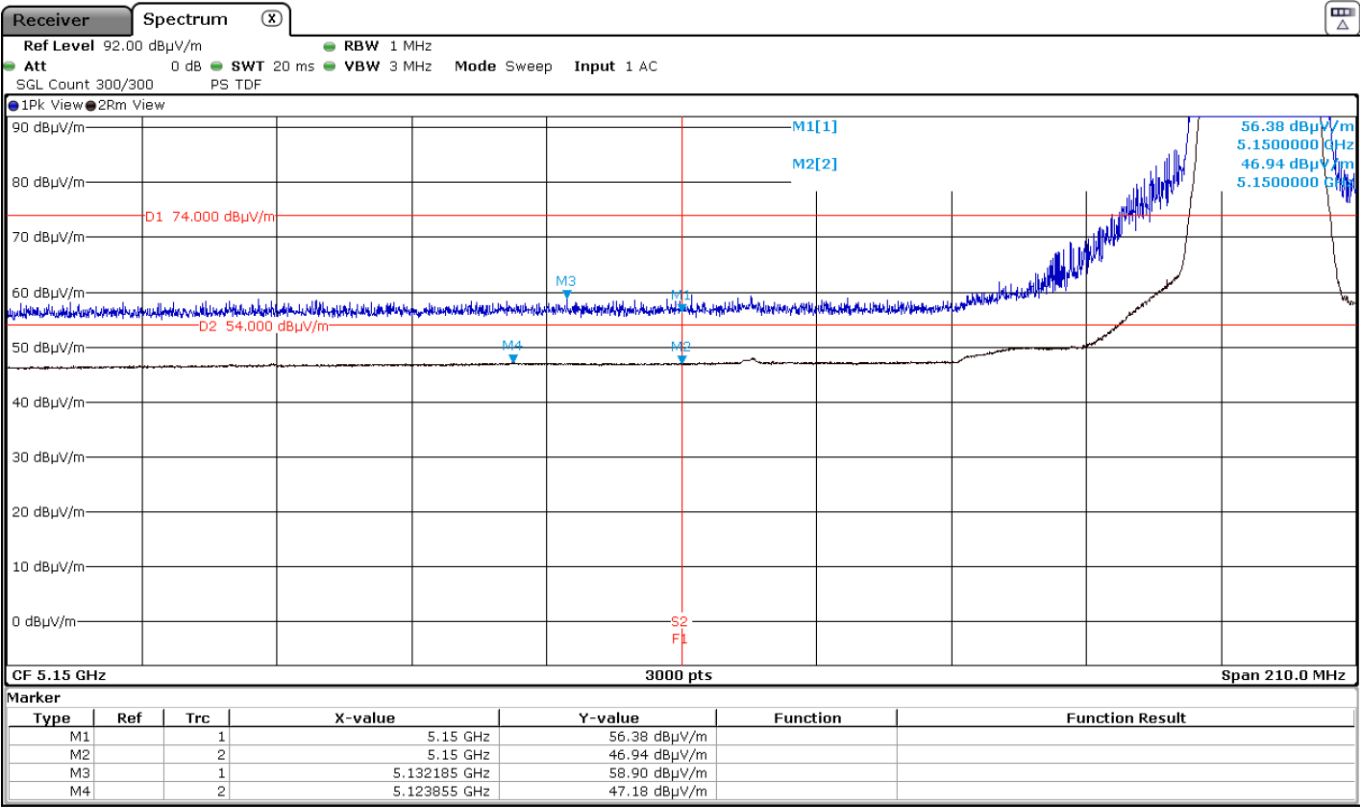
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.94	0.11	47.05	54	6.95	<± 3.05	PASS
5123.855	Vertical	47.18	0.11	47.29	54	6.71	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT20 – CDD- MIMO - Core 0 + Core 1 + Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	63.25	74	10.75	<± 3.05	PASS
5148.413	Vertical	67.51	74	6.49	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	47.91	54	6.09	<± 3.05	PASS
5148.653	Vertical	48.26	54	5.74	<± 3.05	PASS

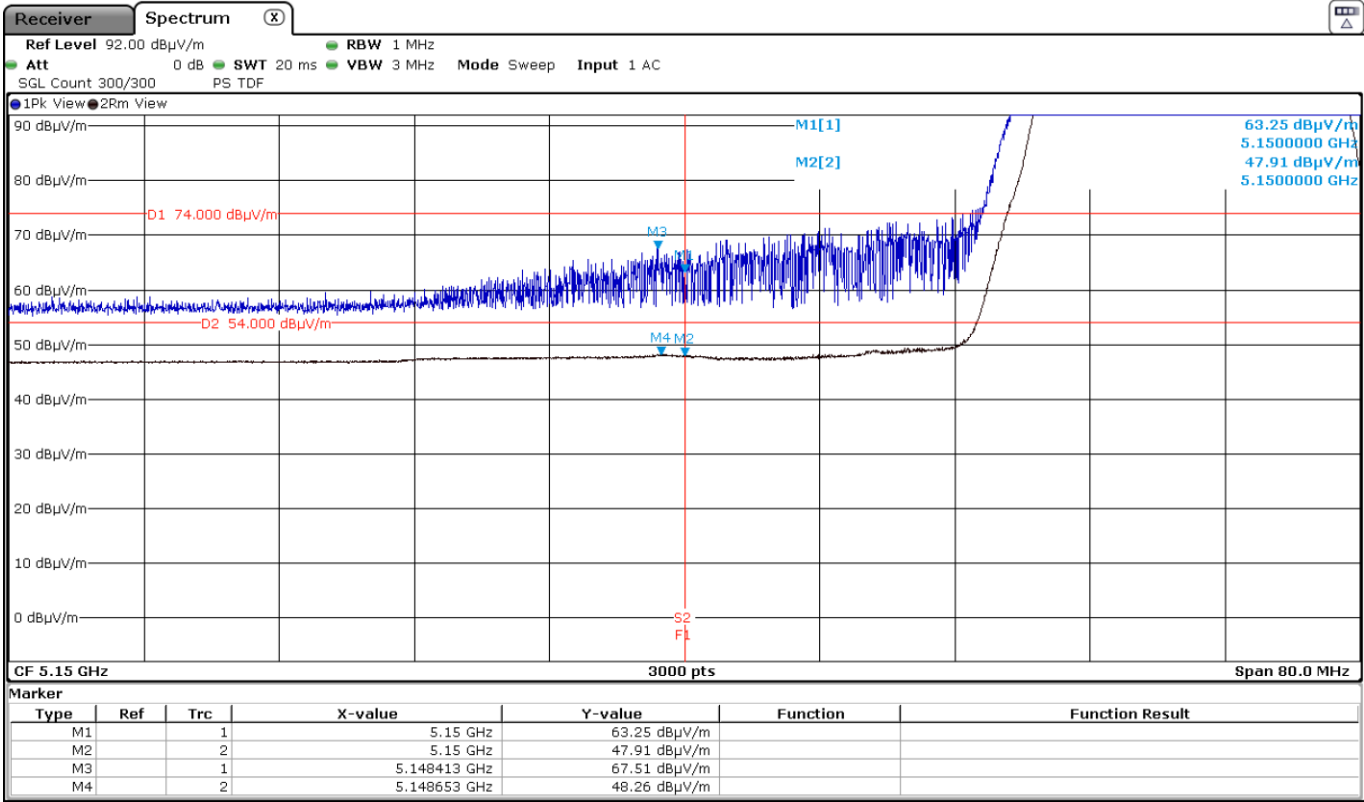
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	56.40	74	17.60	<± 3.05	PASS
5149.195	Vertical	59.32	74	14.68	<± 3.05	PASS

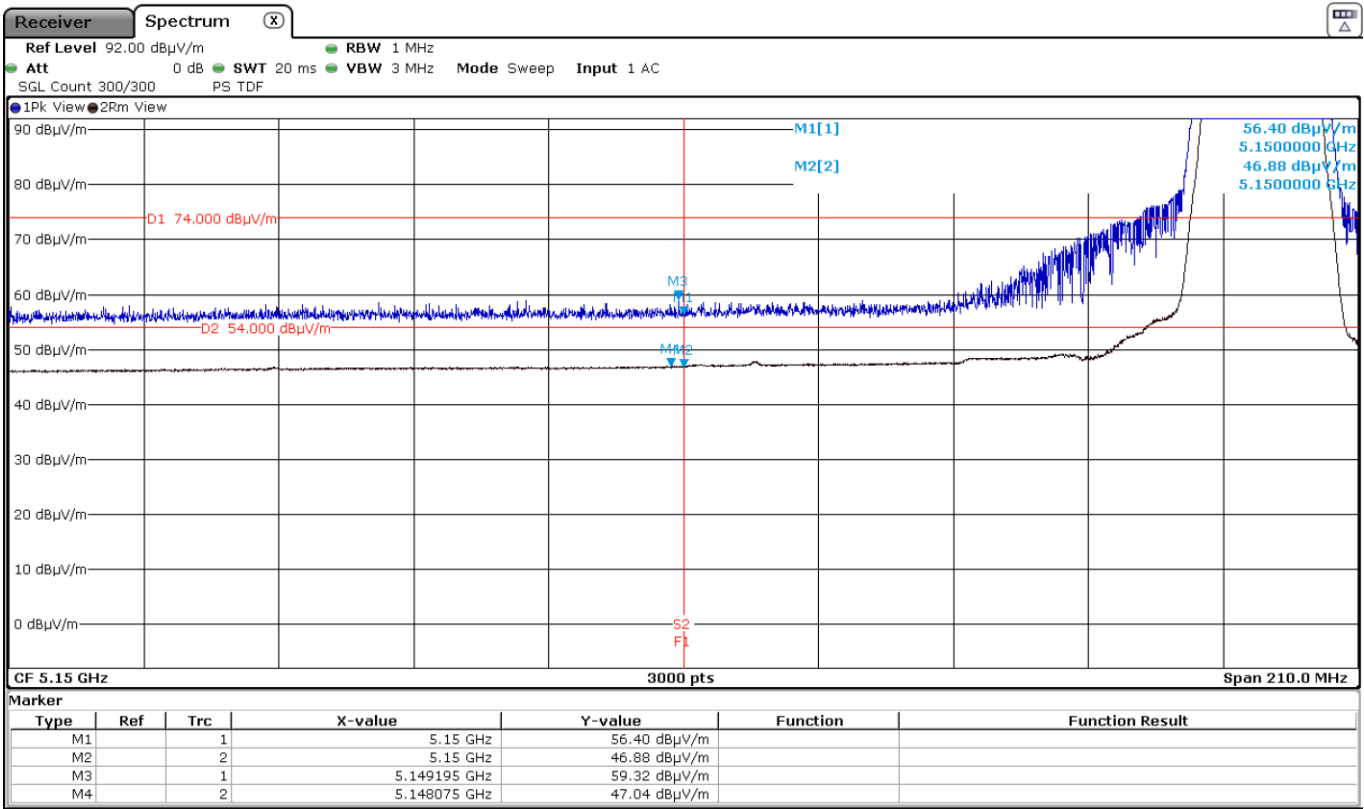
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.88	54	7.12	<± 3.05	PASS
5148.075	Vertical	47.04	54	6.96	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for Mode: 802.11n HT20 – SDM - 20 MHz – MIMO - Core 0+Core 1+Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	61.53	74	12.47	<± 3.05	PASS
5149.747	Vertical	63.55	74	10.45	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	49.11	0.11	49.22	54	4.78	<± 3.05	PASS
5148.520	Vertical	49.30	0.11	49.41	54	4.59	<± 3.05	PASS

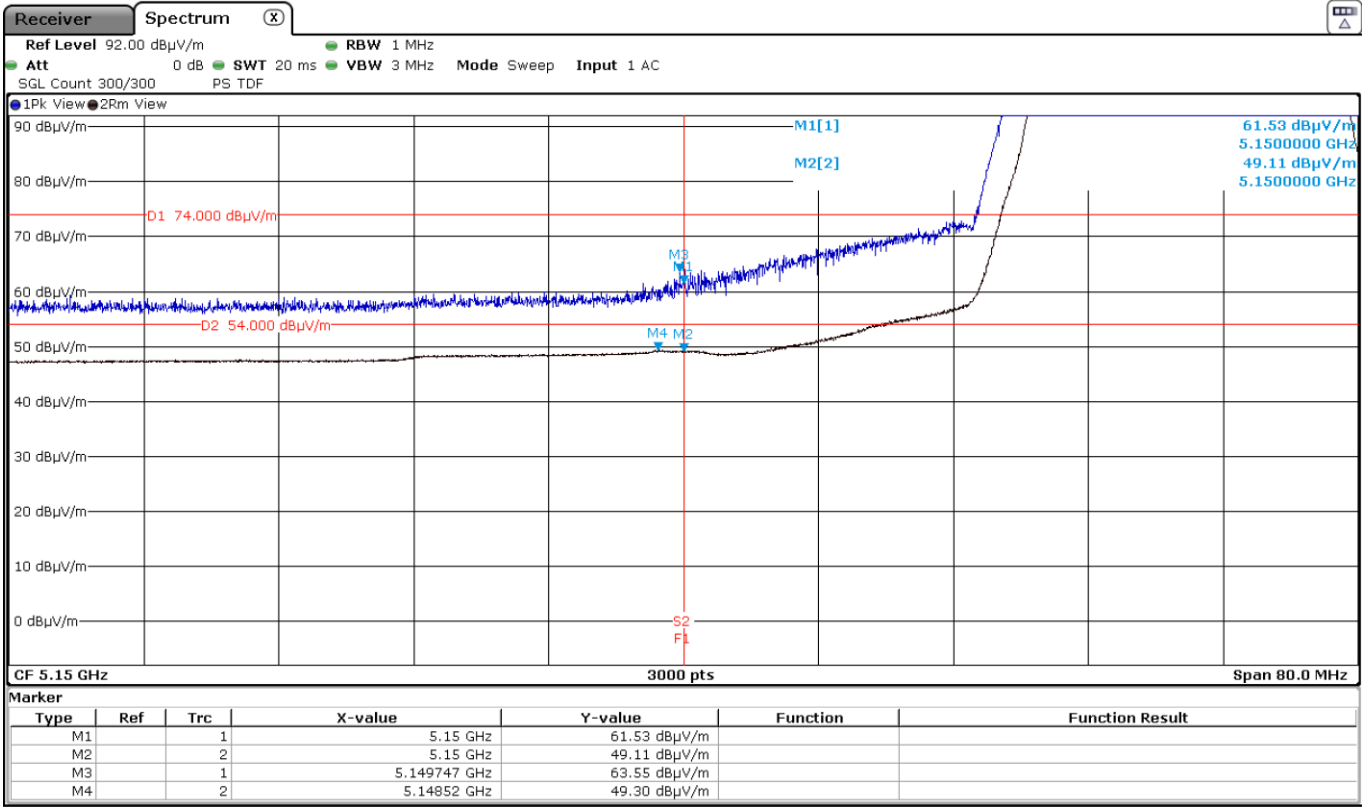
Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	58.09	74	15.91	<± 3.05	PASS
5126.725	Vertical	58.88	74	15.12	<± 3.05	PASS

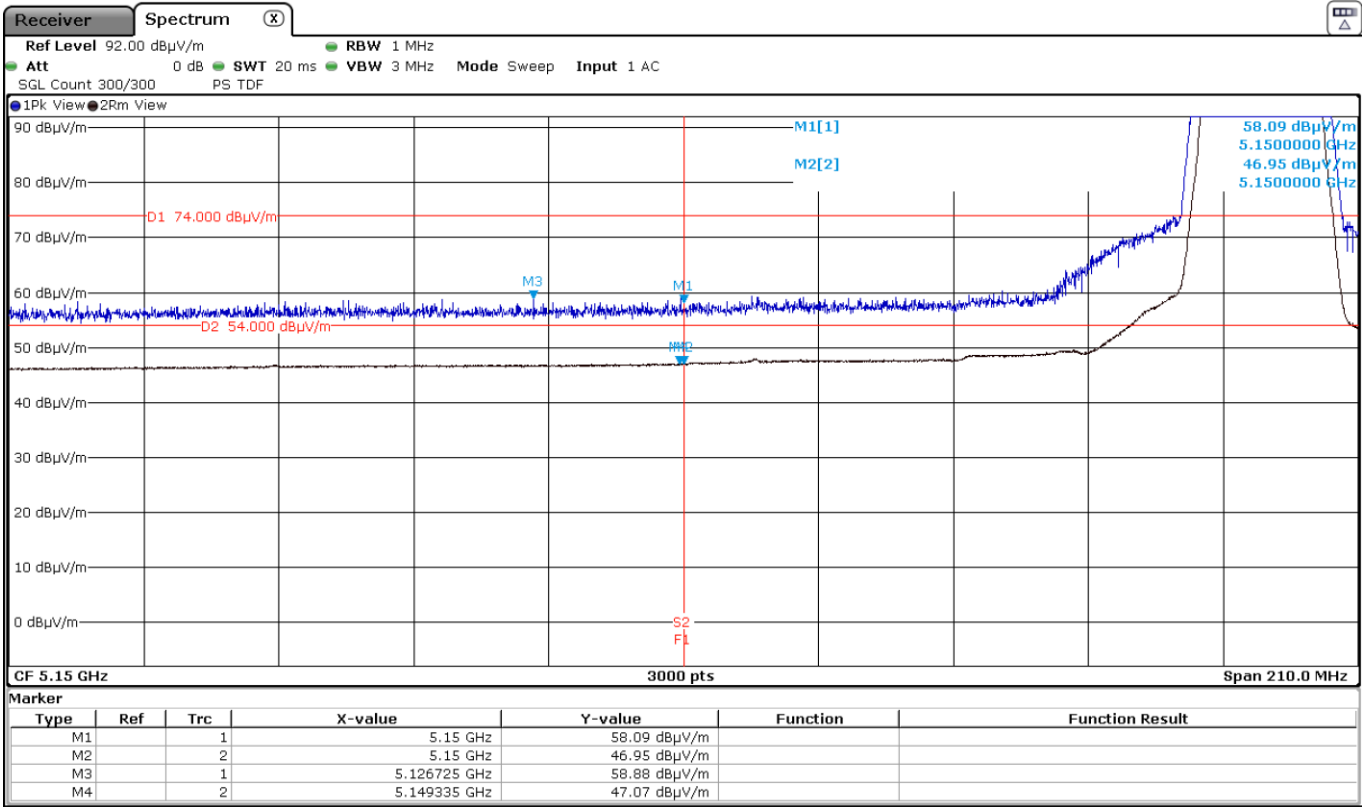
Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.95	0.11	47.06	54	6.94	<± 3.05	PASS
5149.335	Vertical	47.07	0.11	47.18	54	6.82	<± 3.05	PASS

4500 MHz to 5150 MHz Lower Band Edge Channel 36



4500 MHz to 5150 MHz Lower Band Edge Channel 48



Results for: 802.11n HT20 – TxBF- 20 MHz – MIMO - Core 0+Core 1+Core 2

Results: Peak / Channel 36

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	64.56	74	9.44	<± 3.05	PASS
5148.840	Vertical	67.67	74	6.33	<± 3.05	PASS

Results: Average / Channel 36

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	50.69	0.14	50.83	54	3.17	<± 3.05	PASS
5149.507	Vertical	50.77	0.14	50.91	54	3.09	<± 3.05	PASS

Results: Peak / Channel 48

Frequency (MHz)	Antenna Polarity	Peak Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	53.31	74	20.69	<± 3.05	PASS
5107.475	Vertical	59.10	74	14.90	<± 3.05	PASS

Results: Average / Channel 48

Frequency (MHz)	Antenna Polarity	Average Level (dBuV/m)	Duty Cycle Correction (dB)	Corrected Average Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement uncertainty (dB)	Verdict
5150	Vertical	46.30	0.14	46.44	54	7.56	<± 3.05	PASS
5113.005	Vertical	46.67	0.14	46.81	54	7.19	<± 3.05	PASS