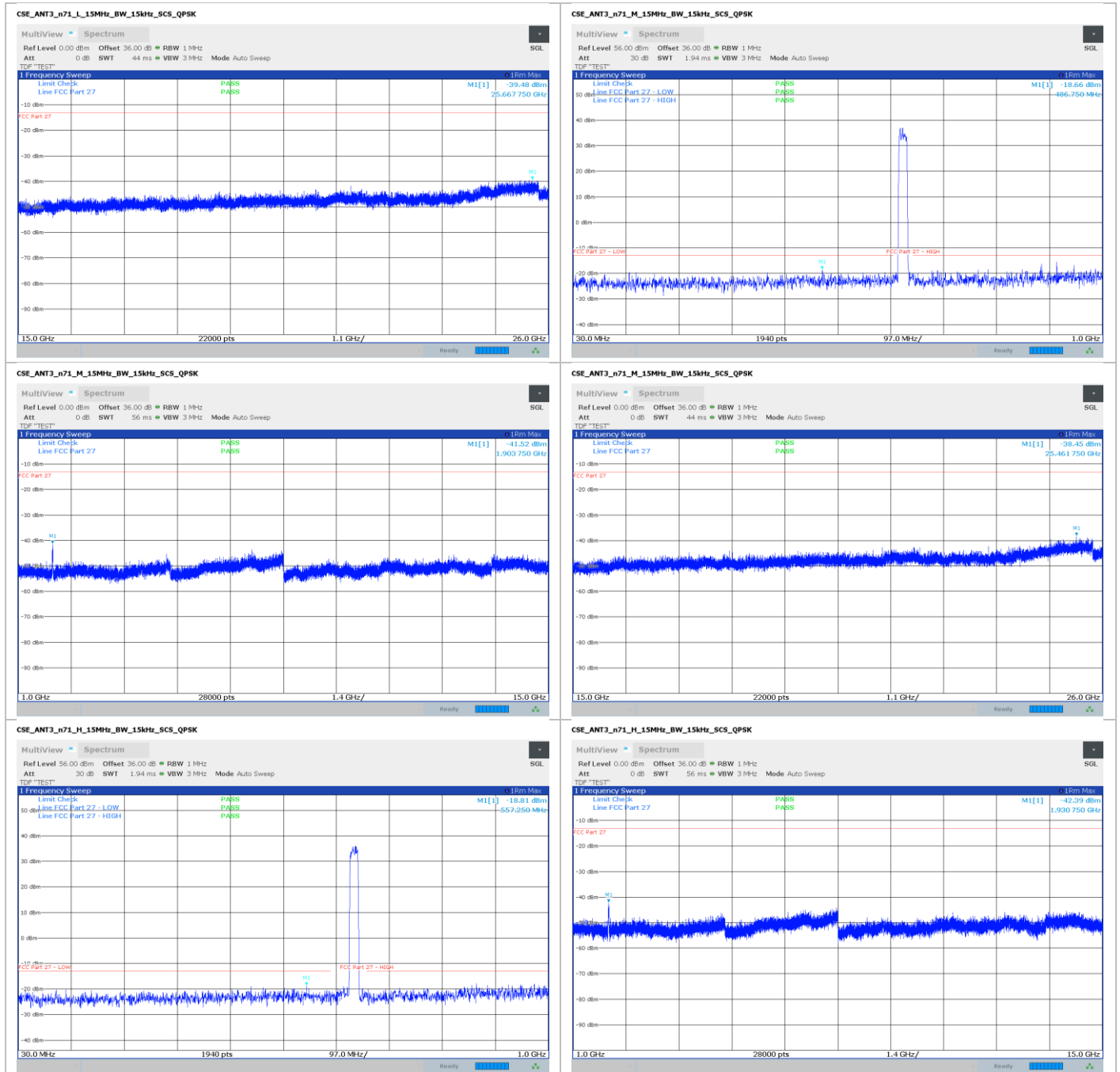


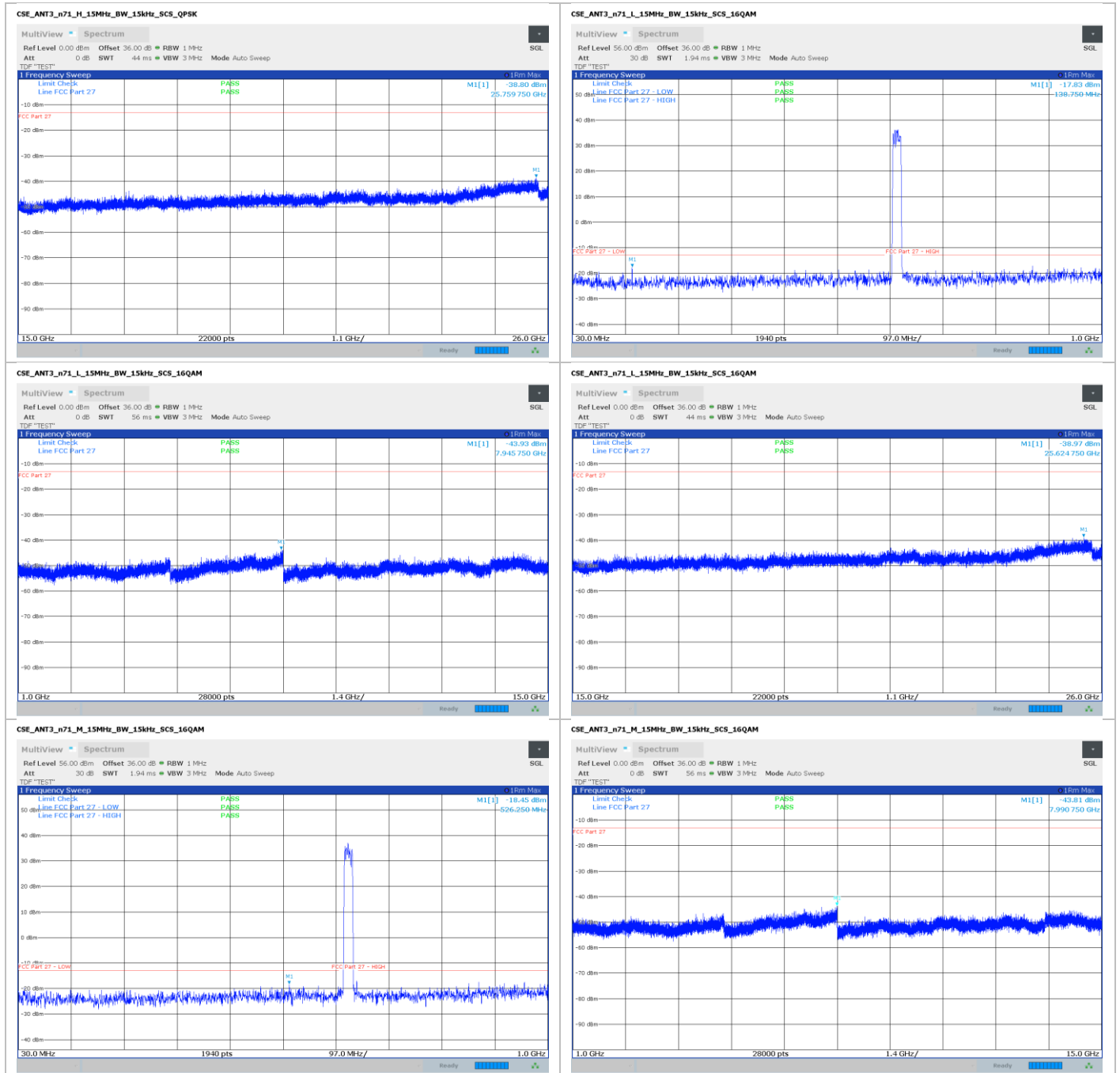
Section 8
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Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



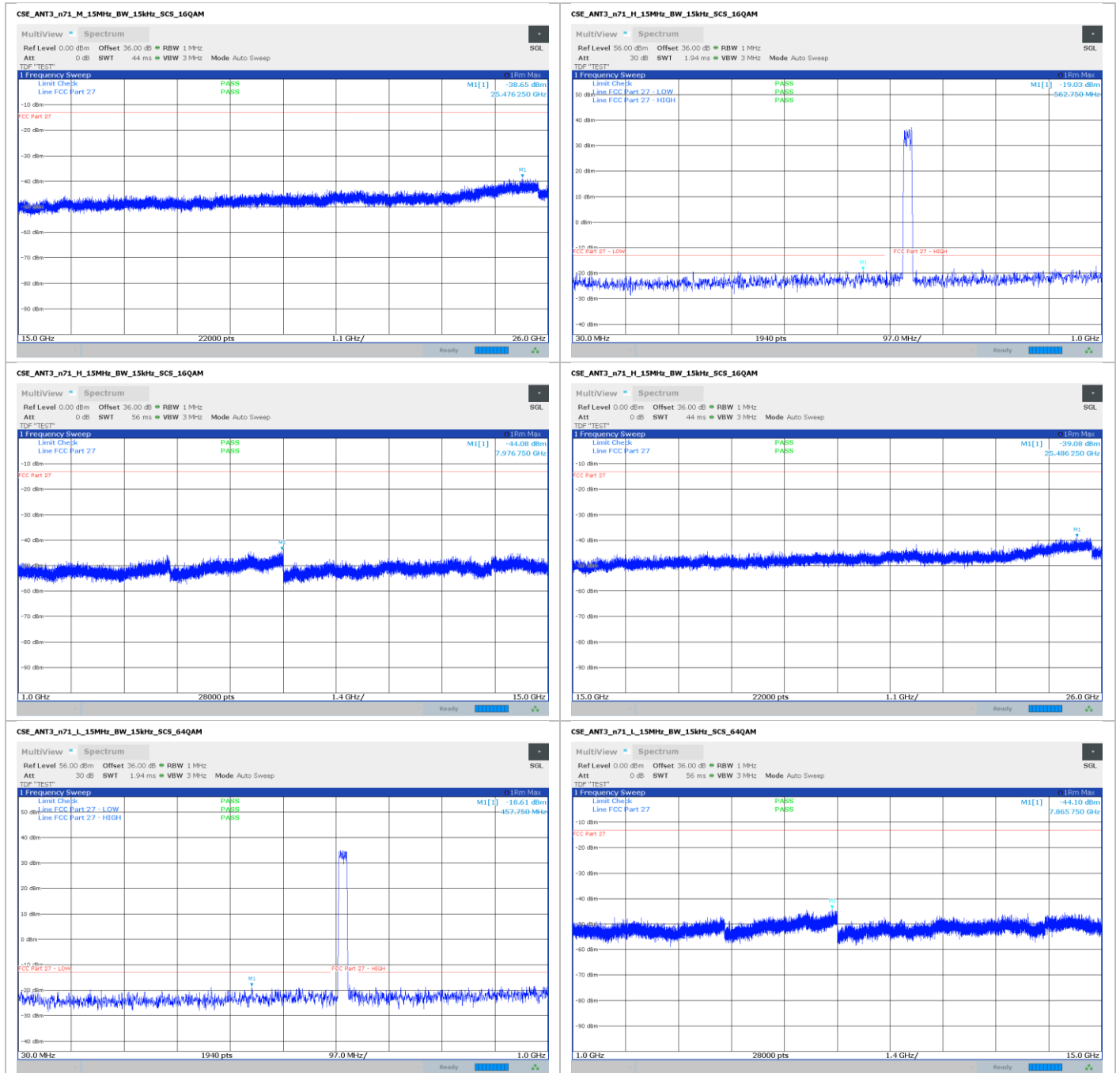
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FCC Part 27 / FCC Part 90



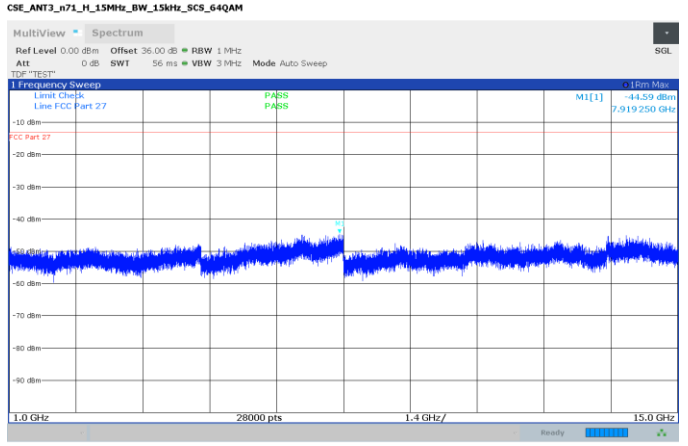
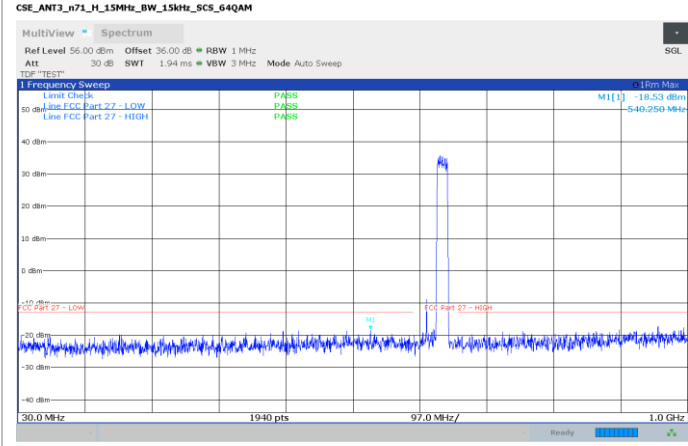
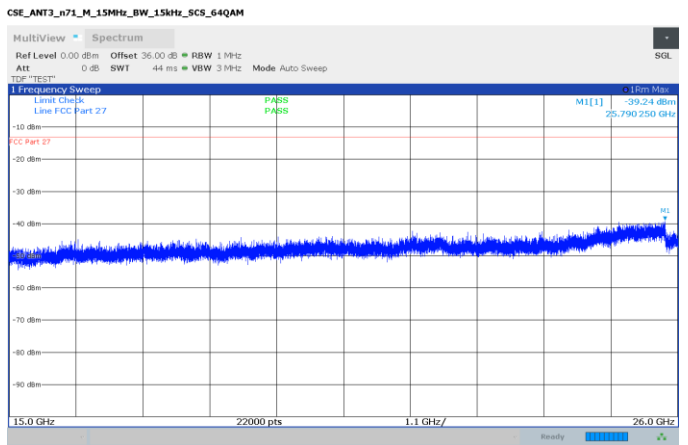
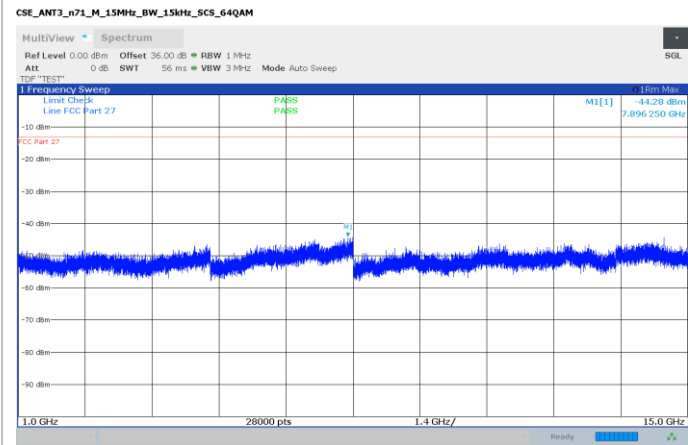
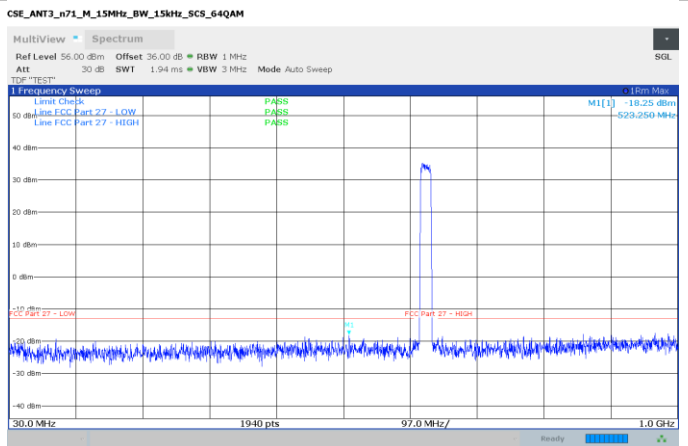
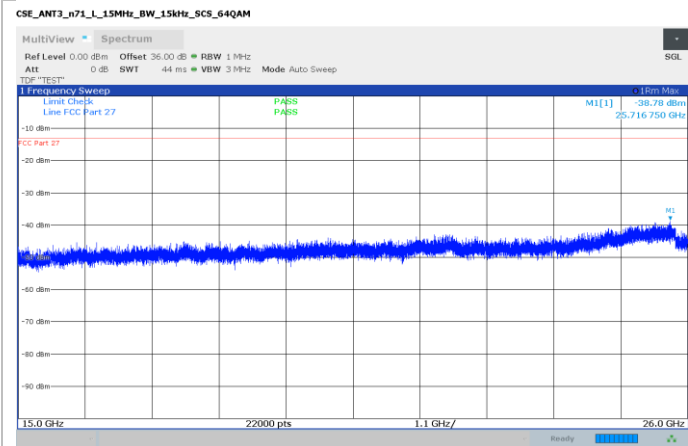
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Testing data
 FCC 27.53(m) / 90.210/90.691 Emission limits
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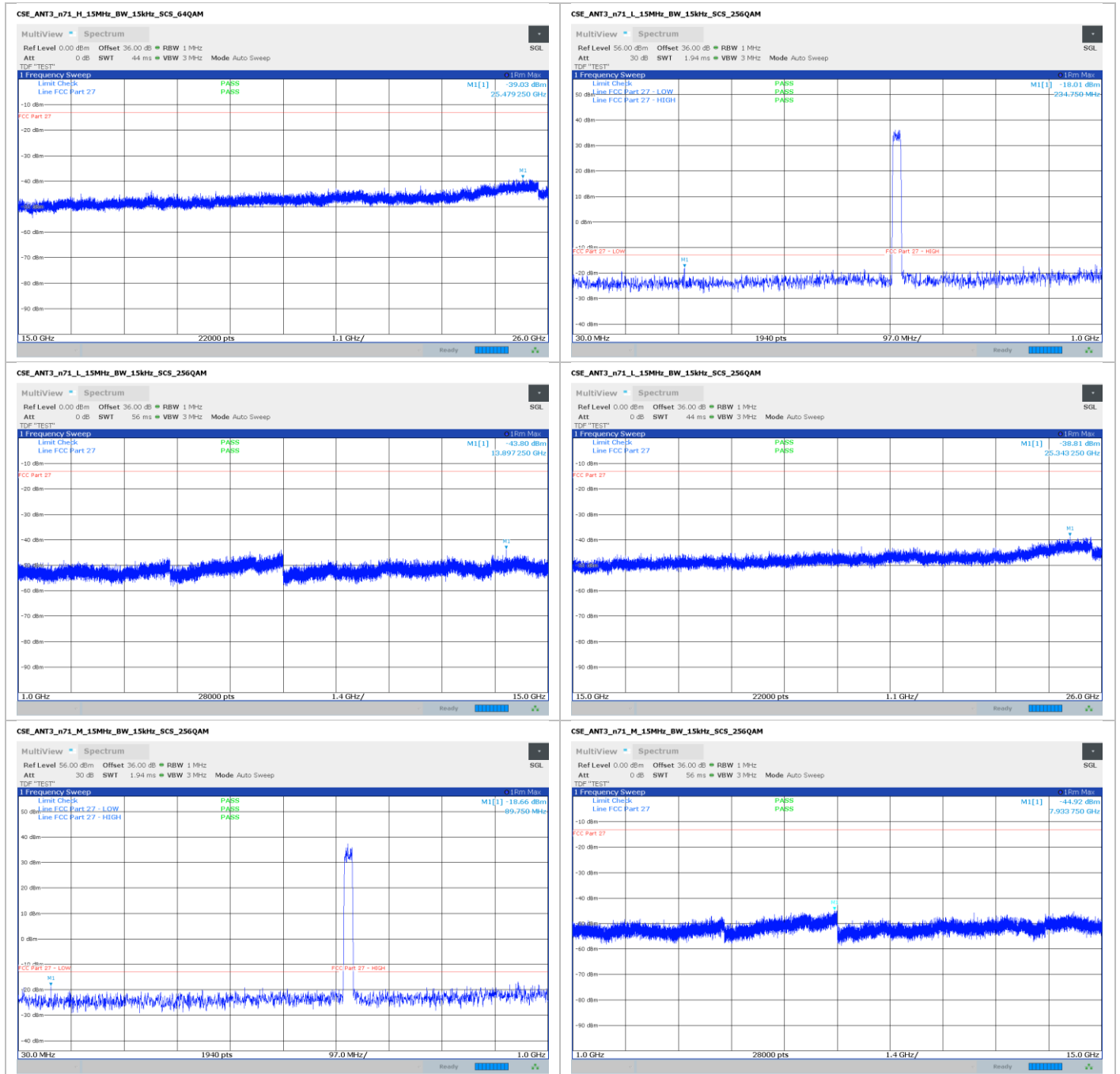
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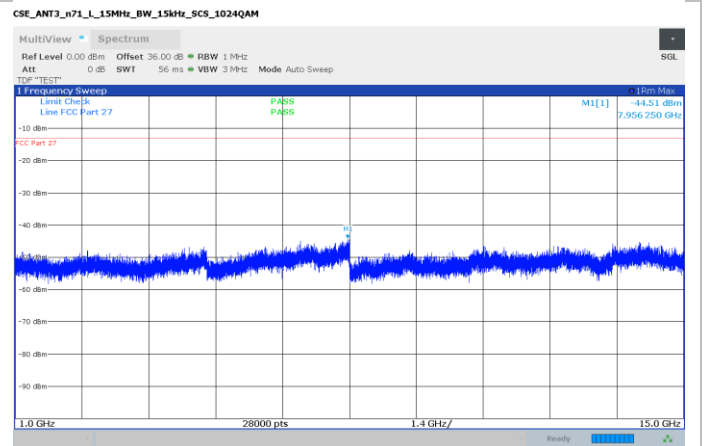
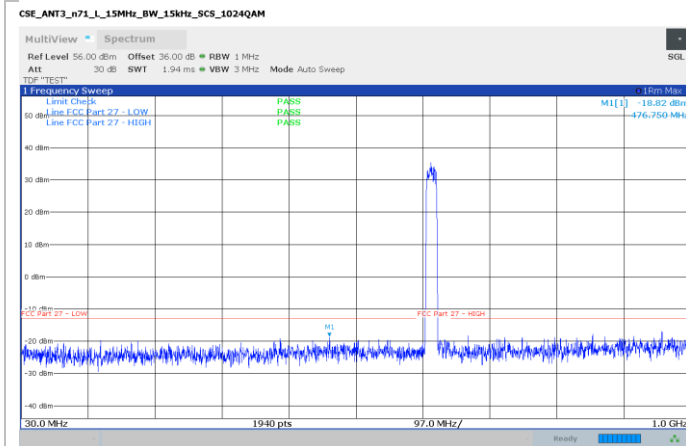
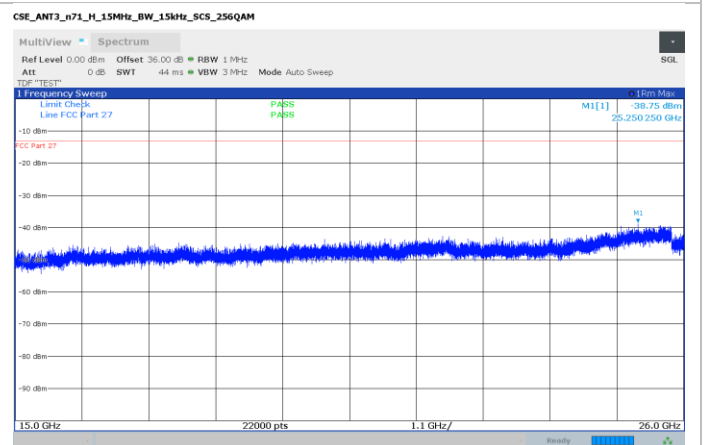
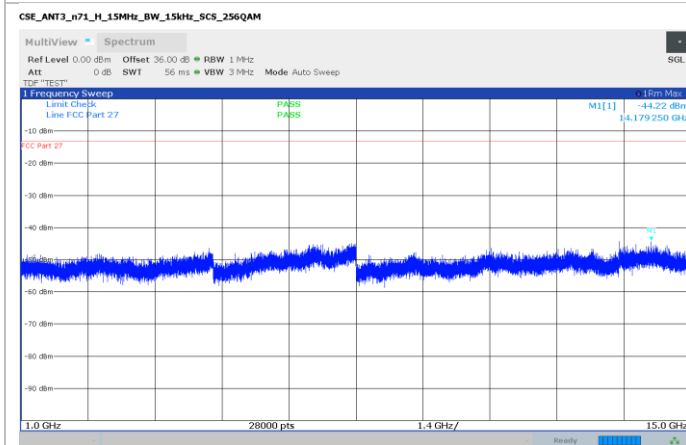
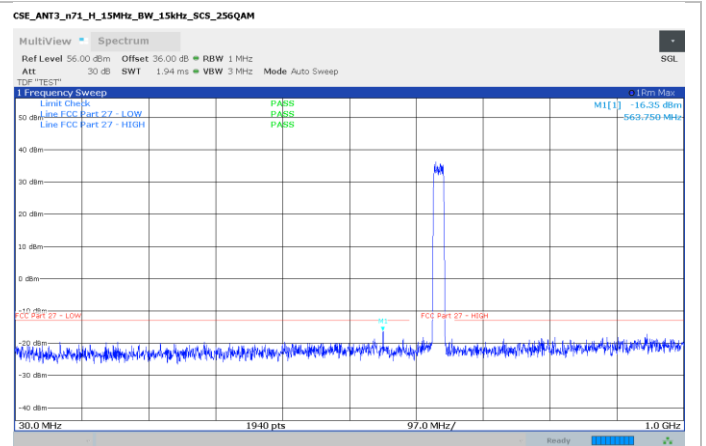
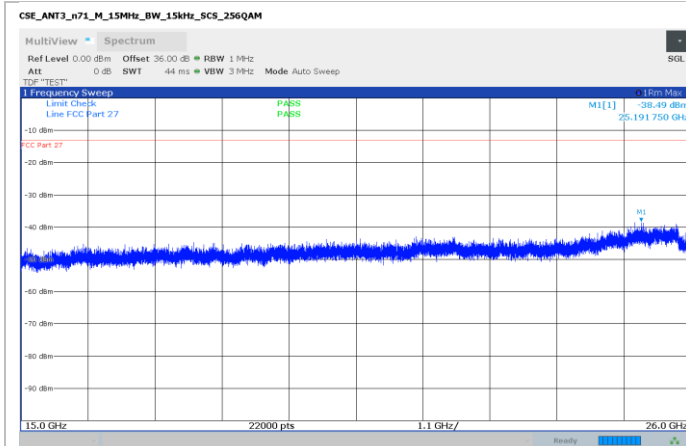
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Testing data
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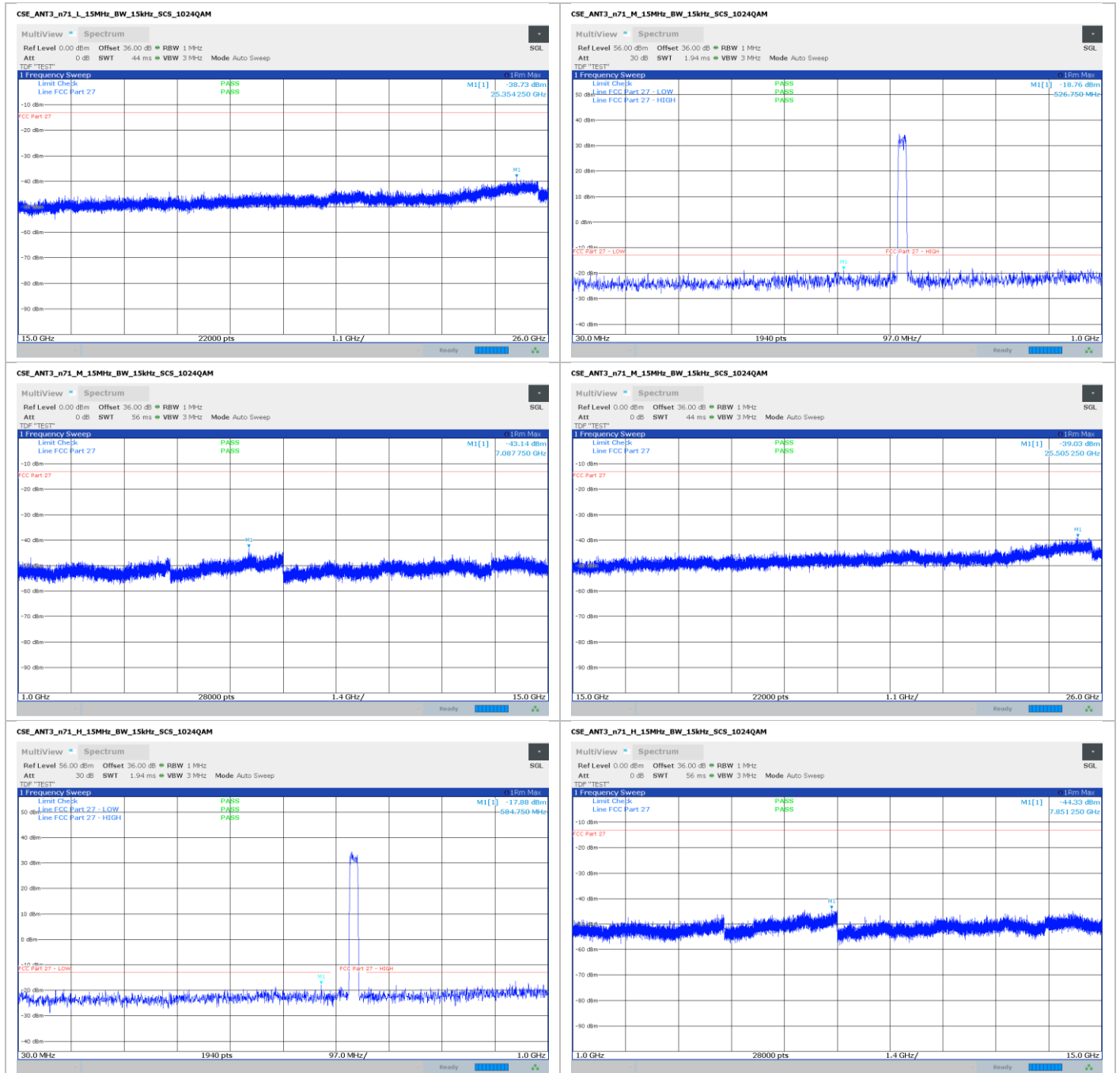
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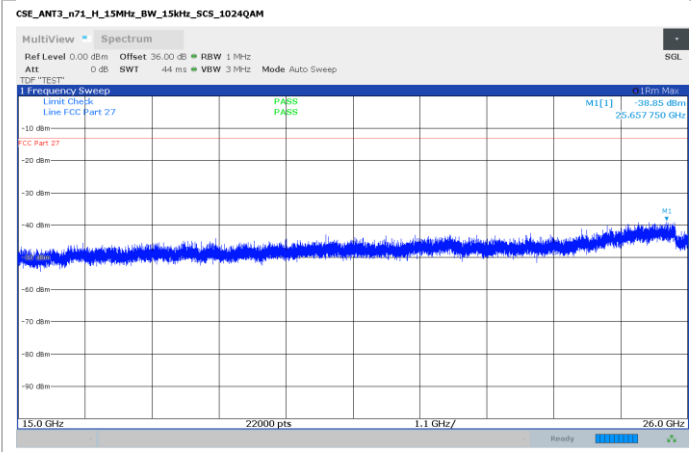
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FCC 27.53(m) / 90.210/90.691 Emission limits
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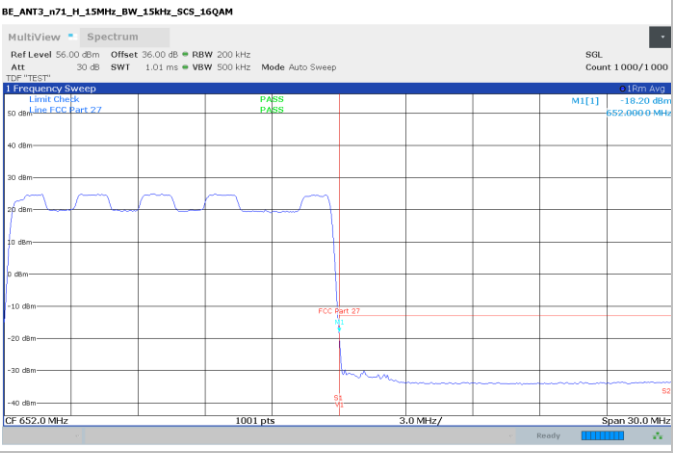
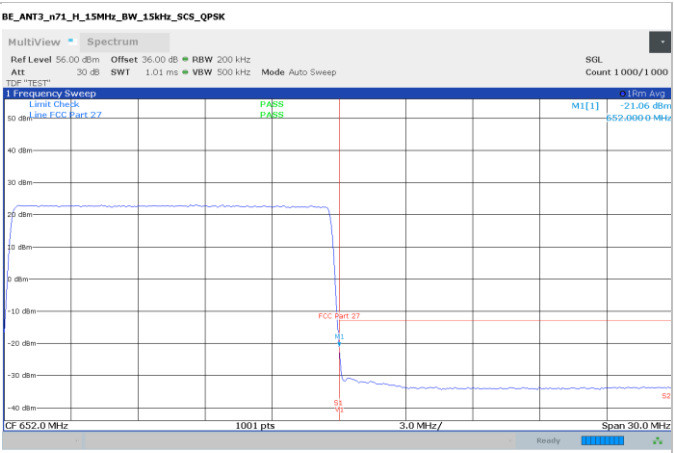
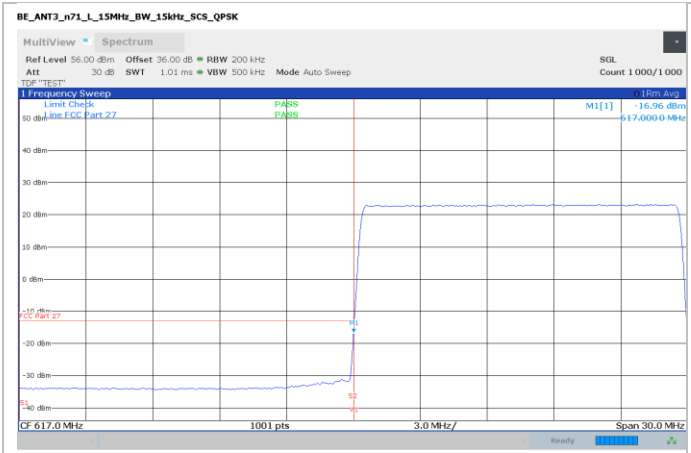
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FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90





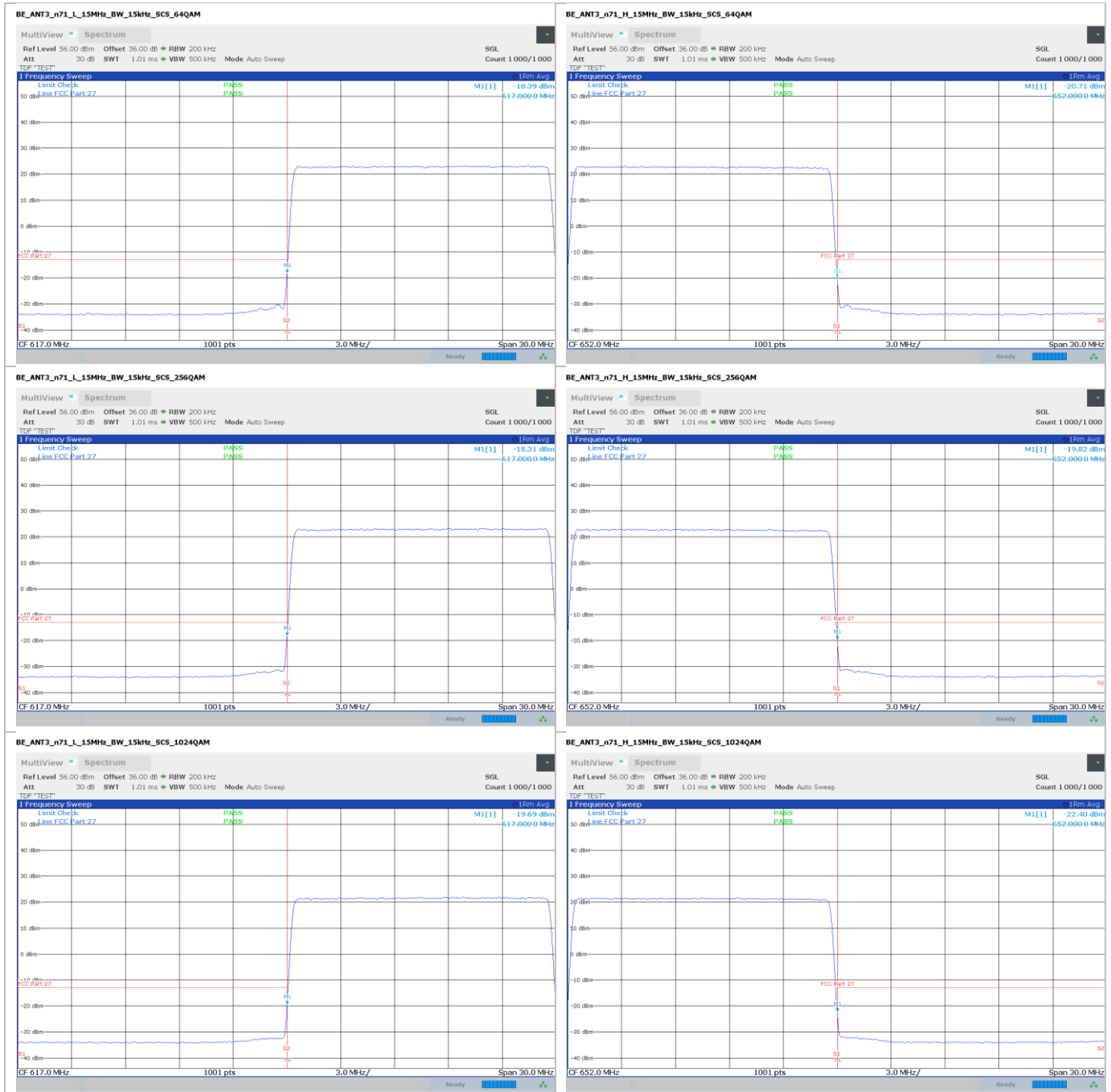
Band n71 – band edge emissions

15 MHz



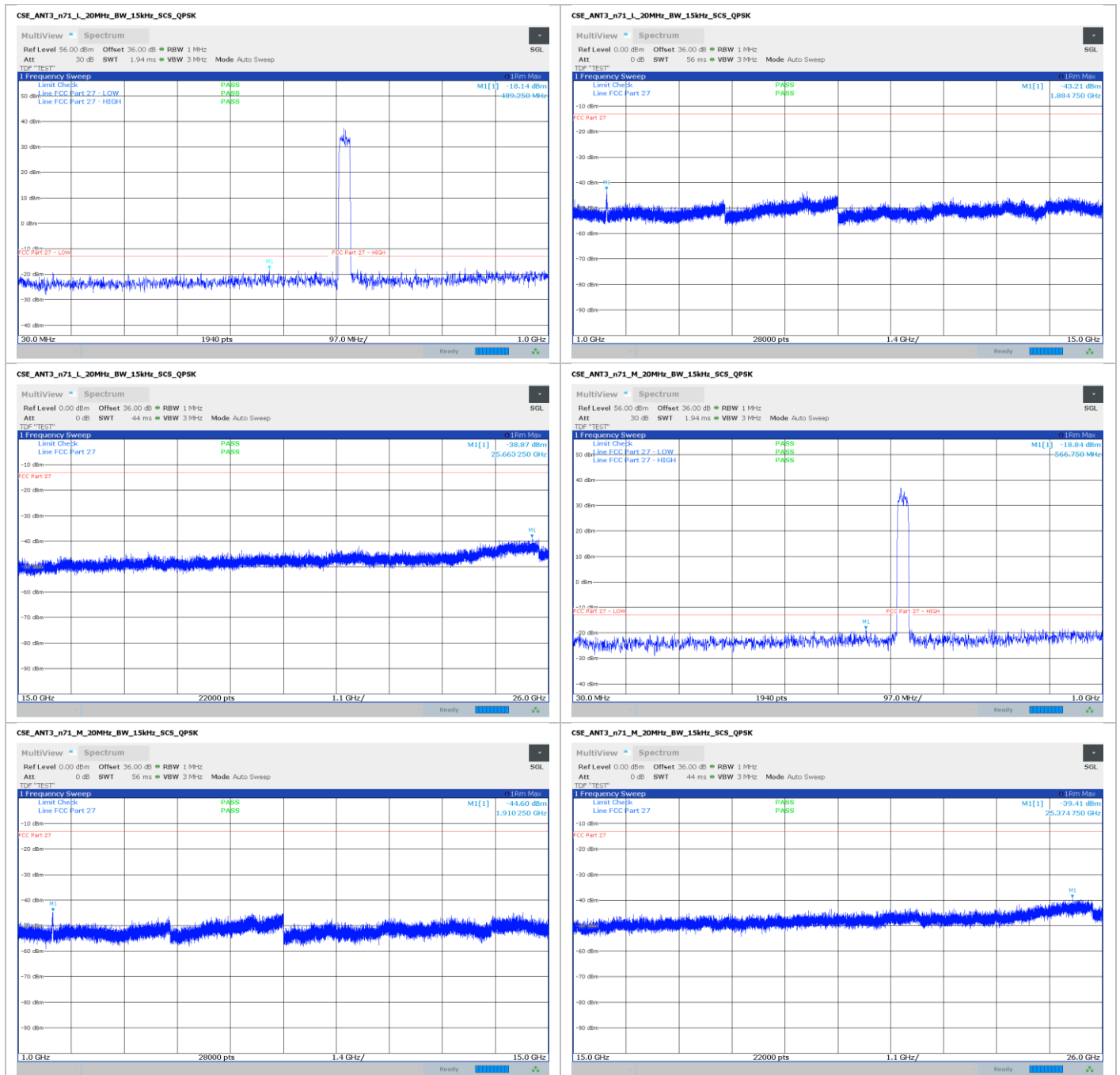
Section 8
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Specification

Testing data
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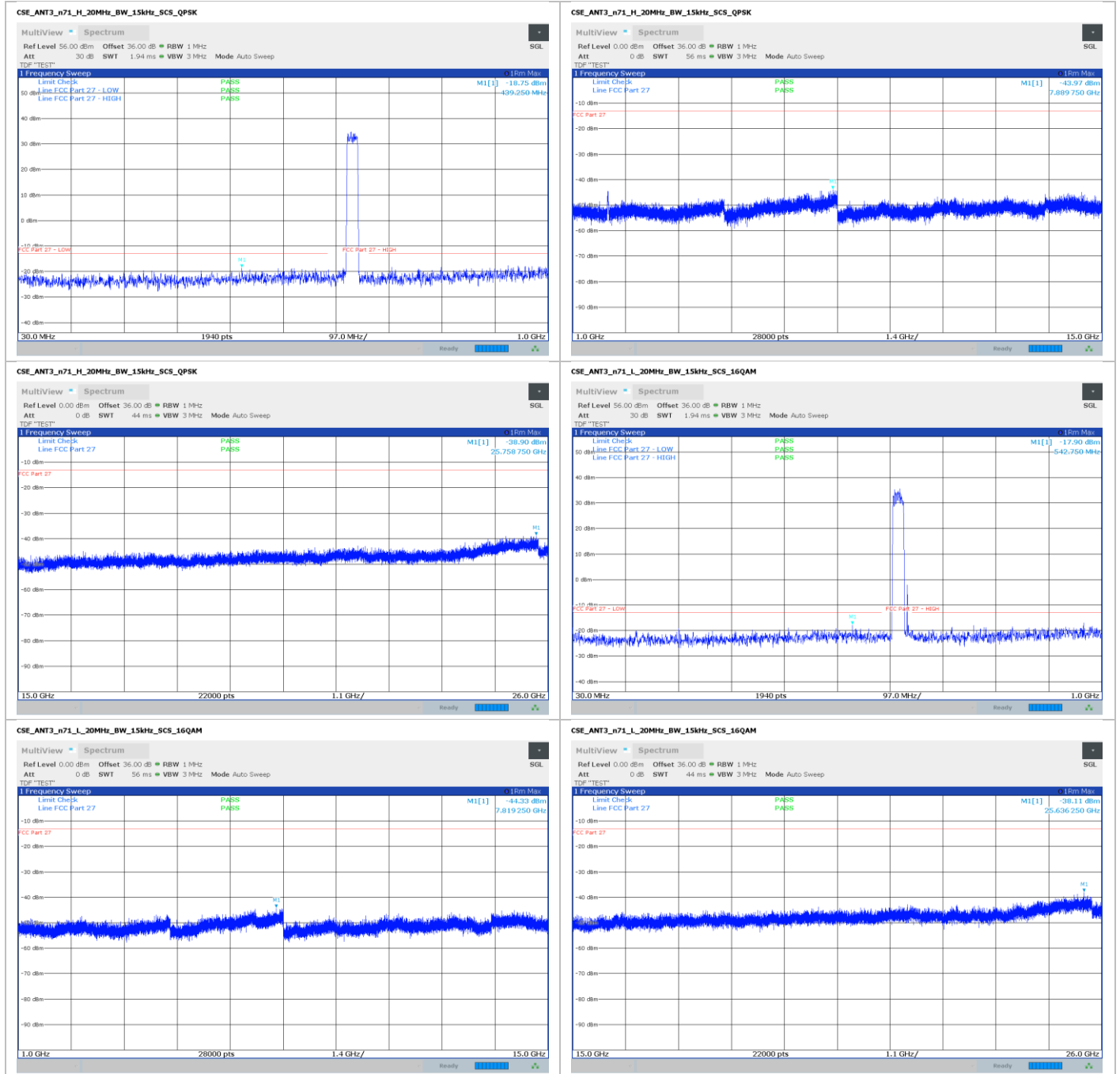
Band n71 – transmitter spurious emissions

20 MHz



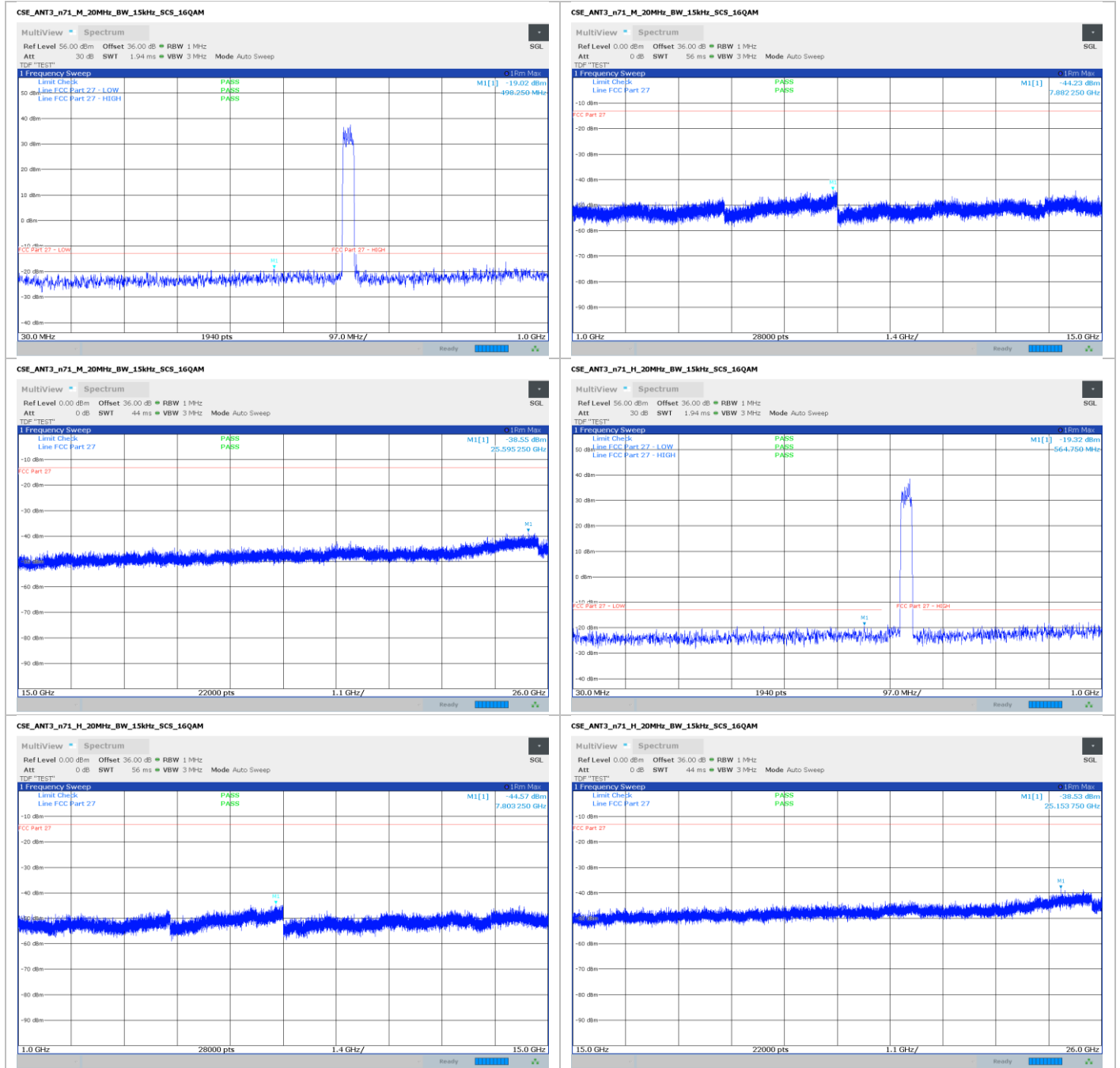
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Test name
Specification

Testing data
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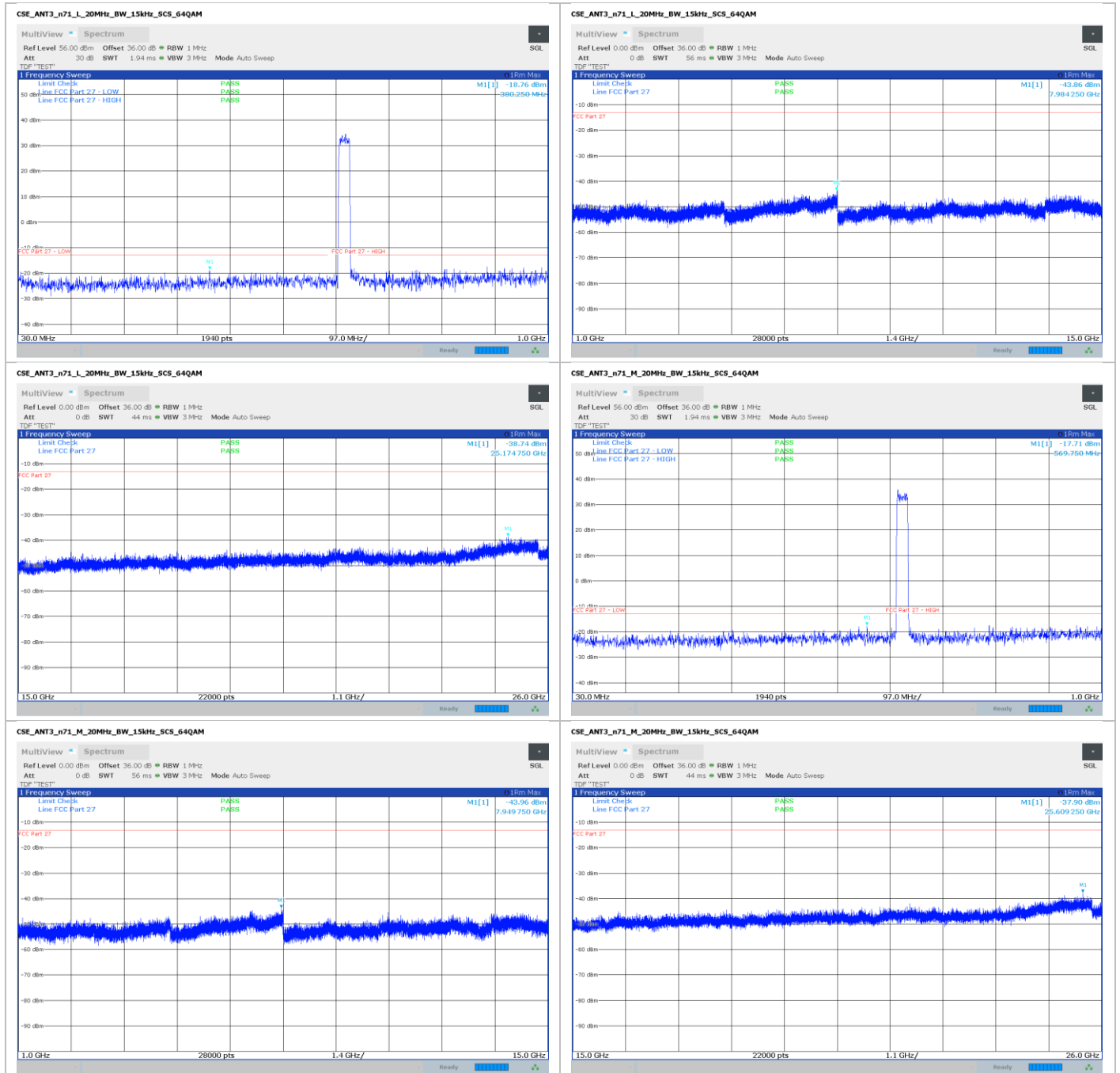
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Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



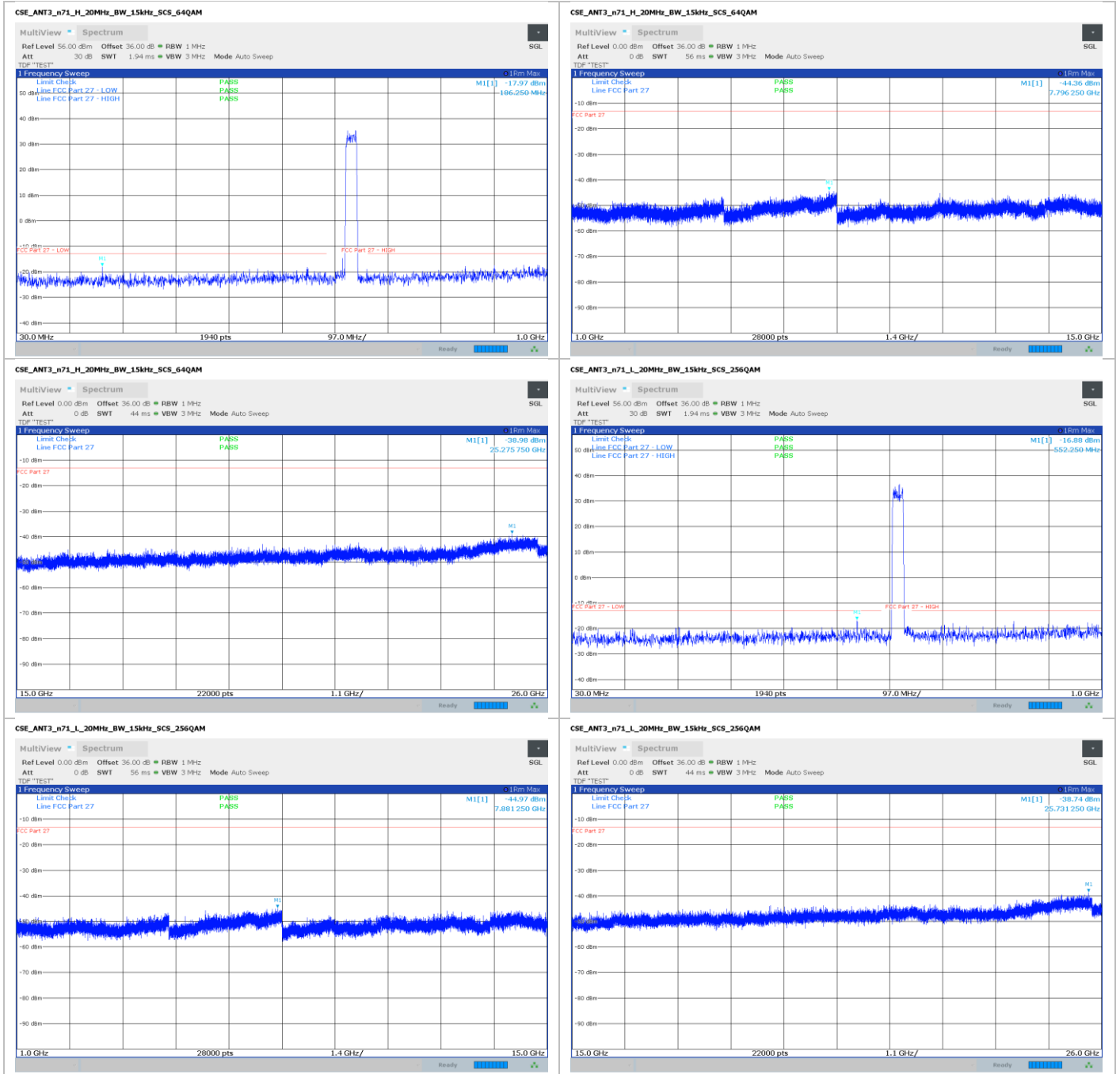
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Specification

Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



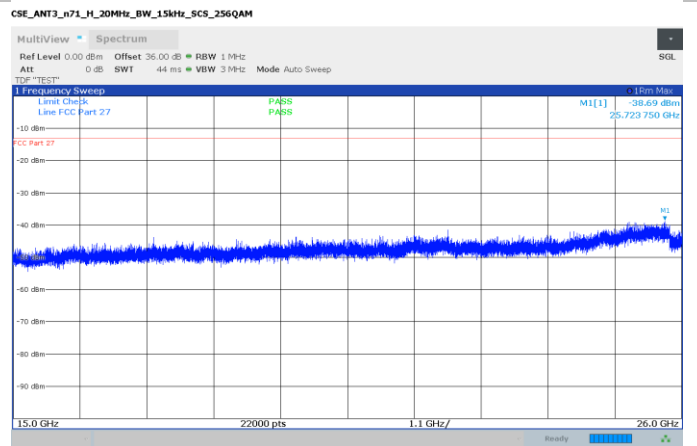
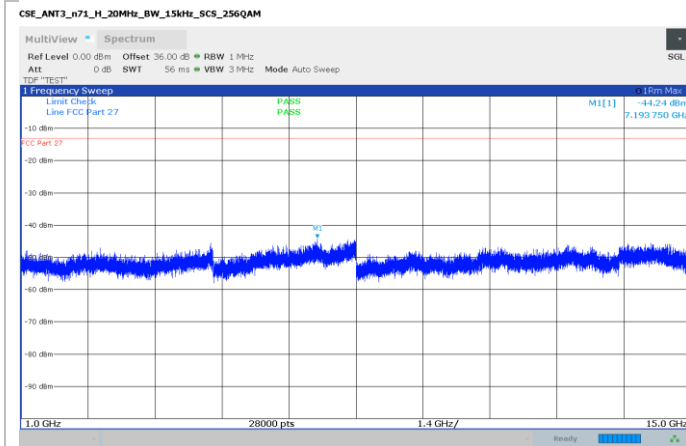
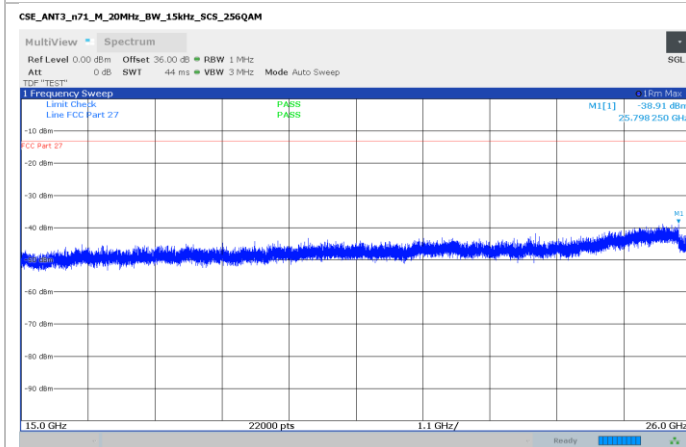
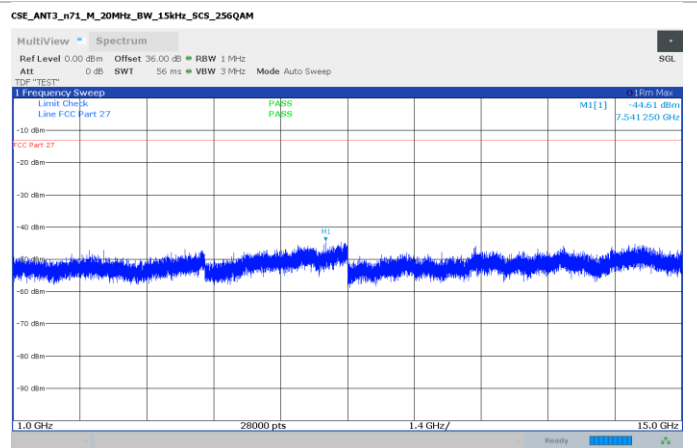
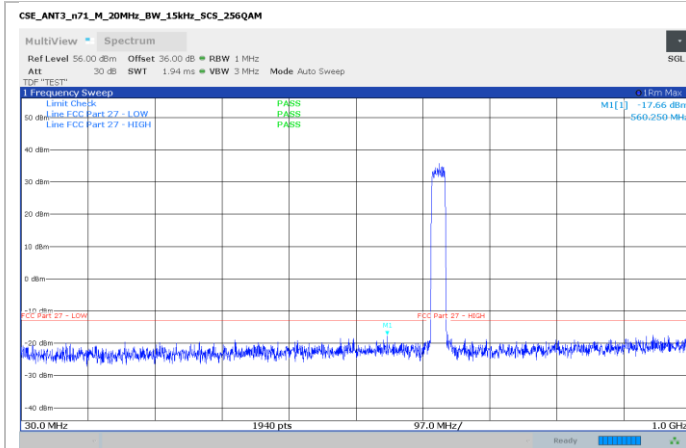
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Specification

Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



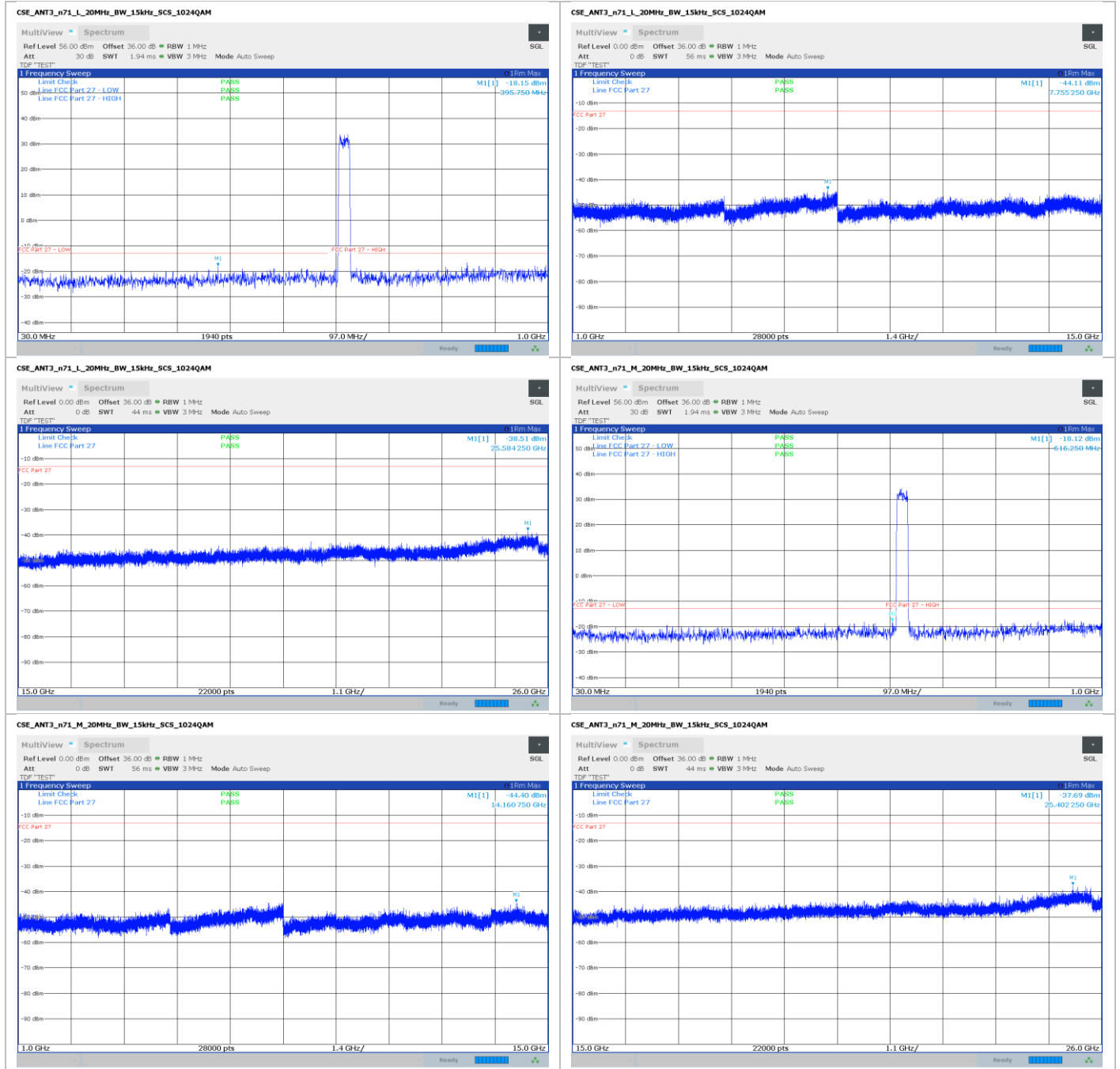
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FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



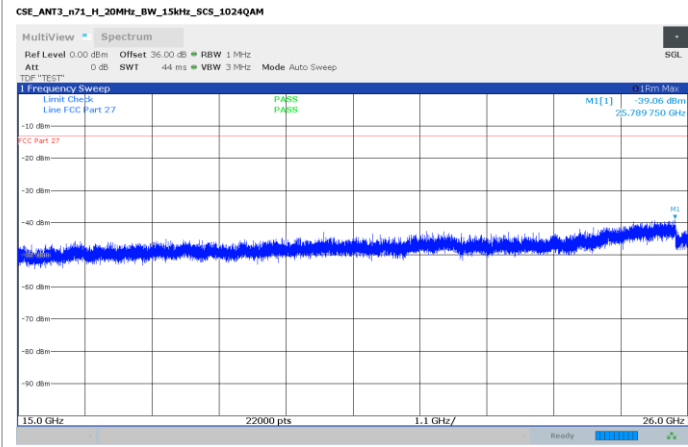
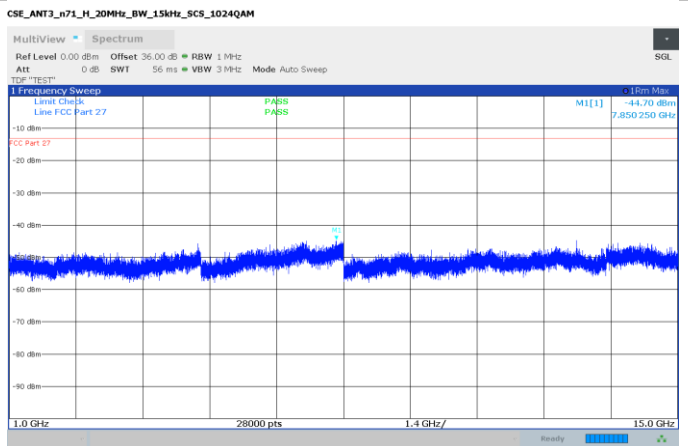
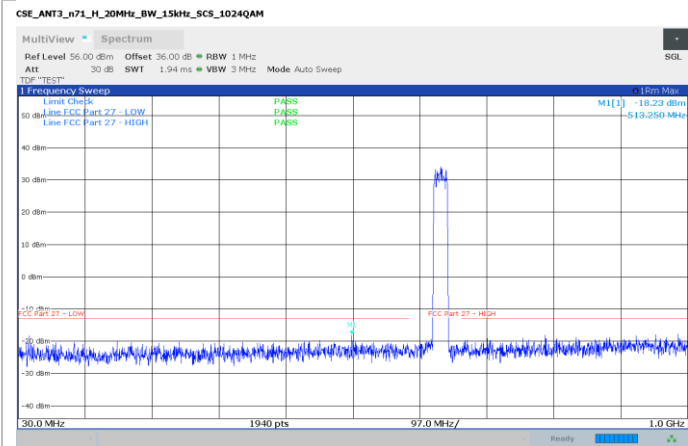
Section 8
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Specification

Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



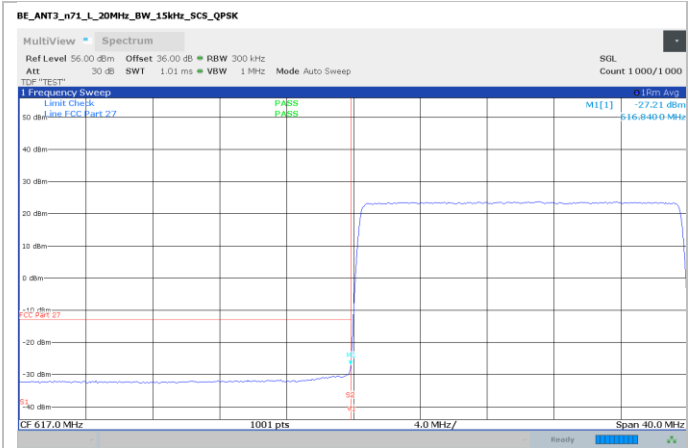
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Test name
Specification

Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
FCC Part 27 / FCC Part 90



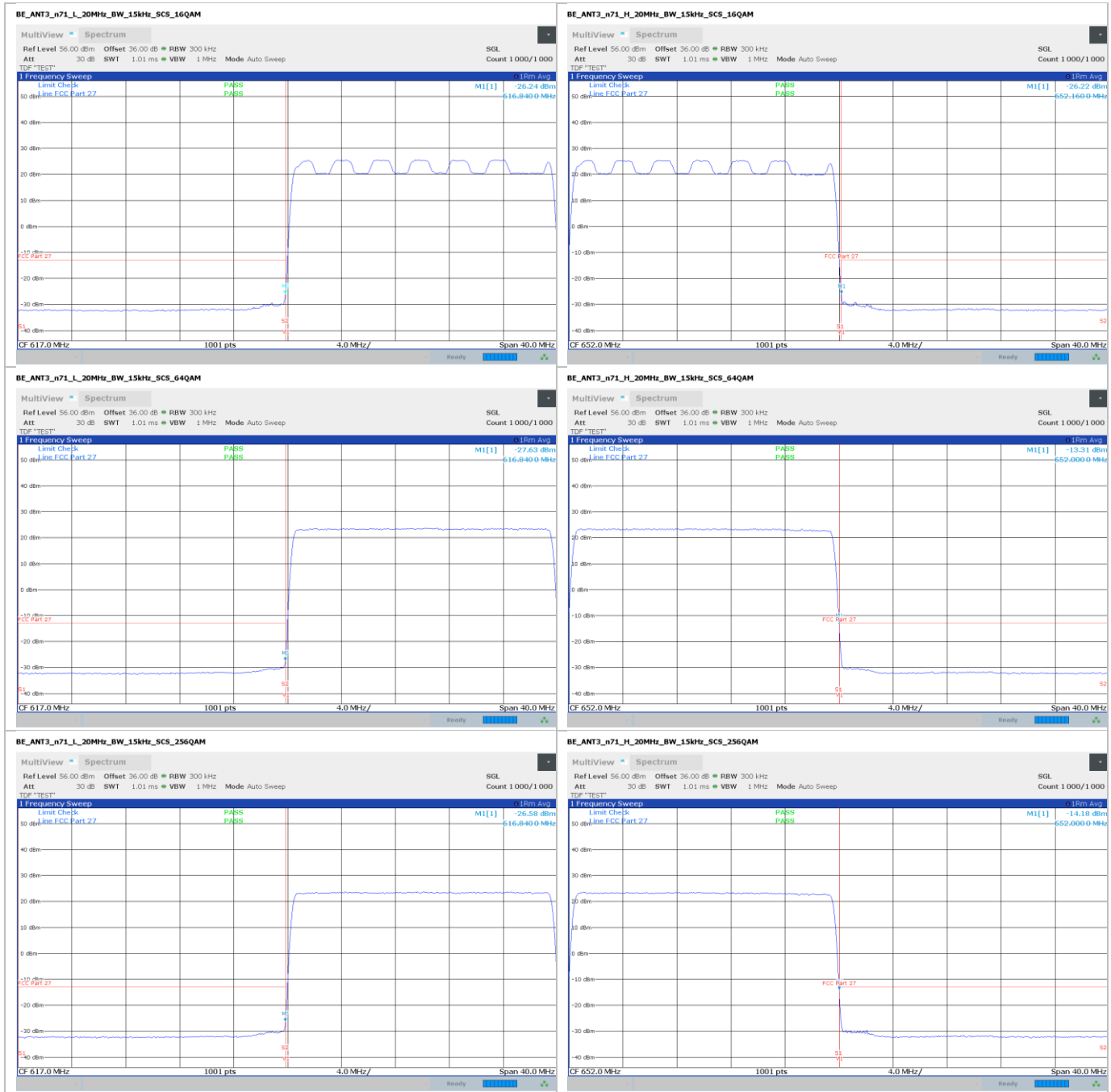
Band n71 – band edge emissions

20 MHz



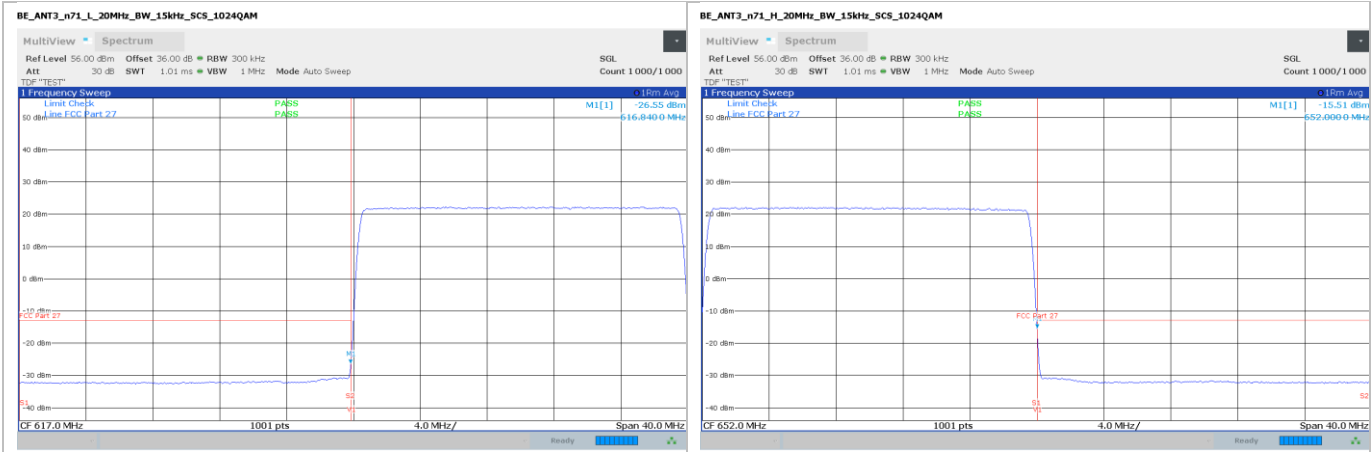
Section 8
Test name
Specification

Testing data
 FCC 27.53(m) / 90.210/90.691 Emission limits
 FCC Part 27 / FCC Part 90



Section 8
Test name
Specification

Testing data
FCC 27.53(m) / 90.210/90.691 Emission limits
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Band n71 – radiated spurious emissions

NB-IoT

Full Spectrum

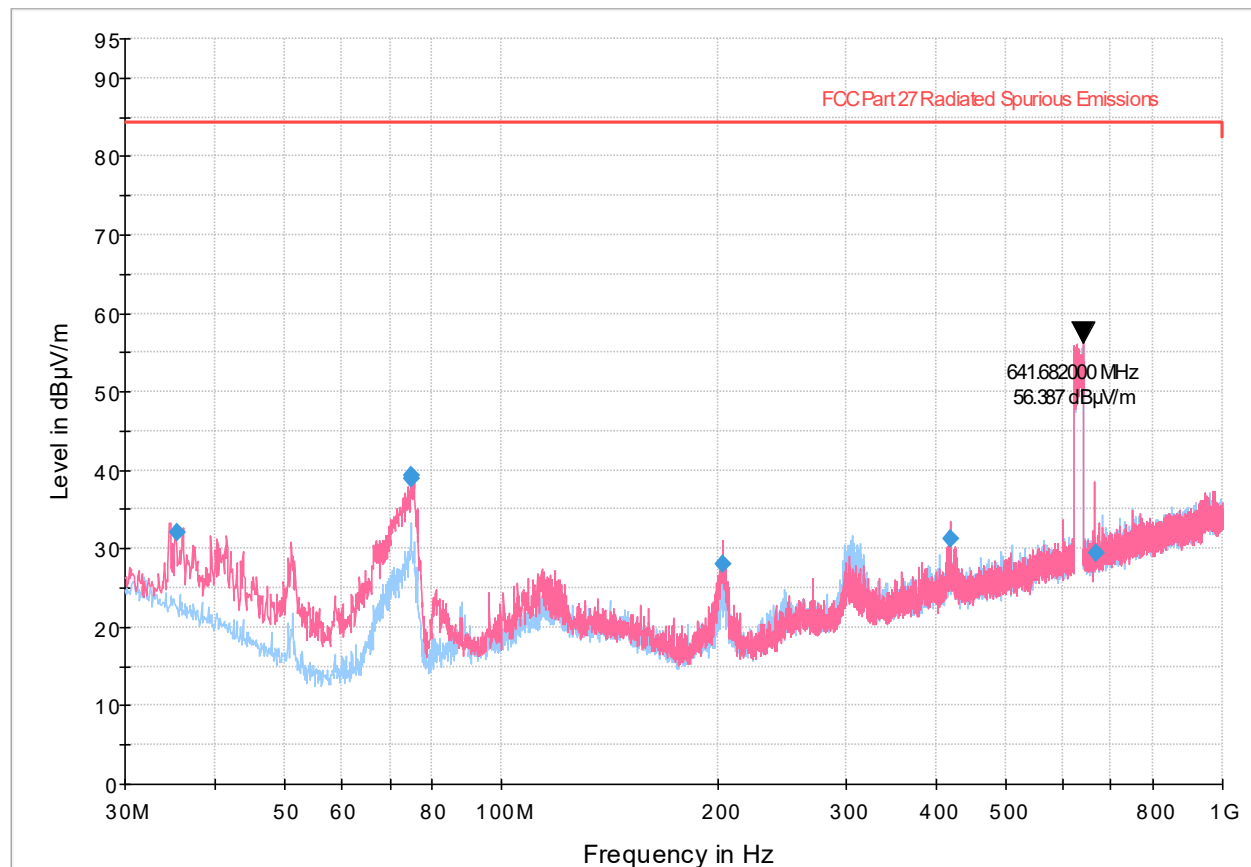


Figure 8.6-8: Radiated emissions spectral plot (30 MHz - 1 GHz)

Table 8.6-8: Radiated emissions results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.359000	32.00	84.38	52.38	5000.0	120.000	100.0	V	109.0	23.7
74.910000	39.33	84.38	45.05	5000.0	120.000	100.0	V	47.0	14.5
74.911000	38.97	84.38	45.41	5000.0	120.000	109.0	V	21.0	14.5
202.860000	27.94	84.38	56.44	5000.0	120.000	100.0	V	72.0	17.9
420.014000	31.21	84.38	53.17	5000.0	120.000	100.0	V	114.0	26.2
666.156000	29.45	84.38	54.93	5000.0	120.000	140.0	V	0.0	29.9

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)
² Correction factors = antenna factor ACF (dB) + cable loss (dB)
³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.
The marked emission at 642 MHz is the fundamental emission and is excluded from evaluation against the limits

Full Spectrum

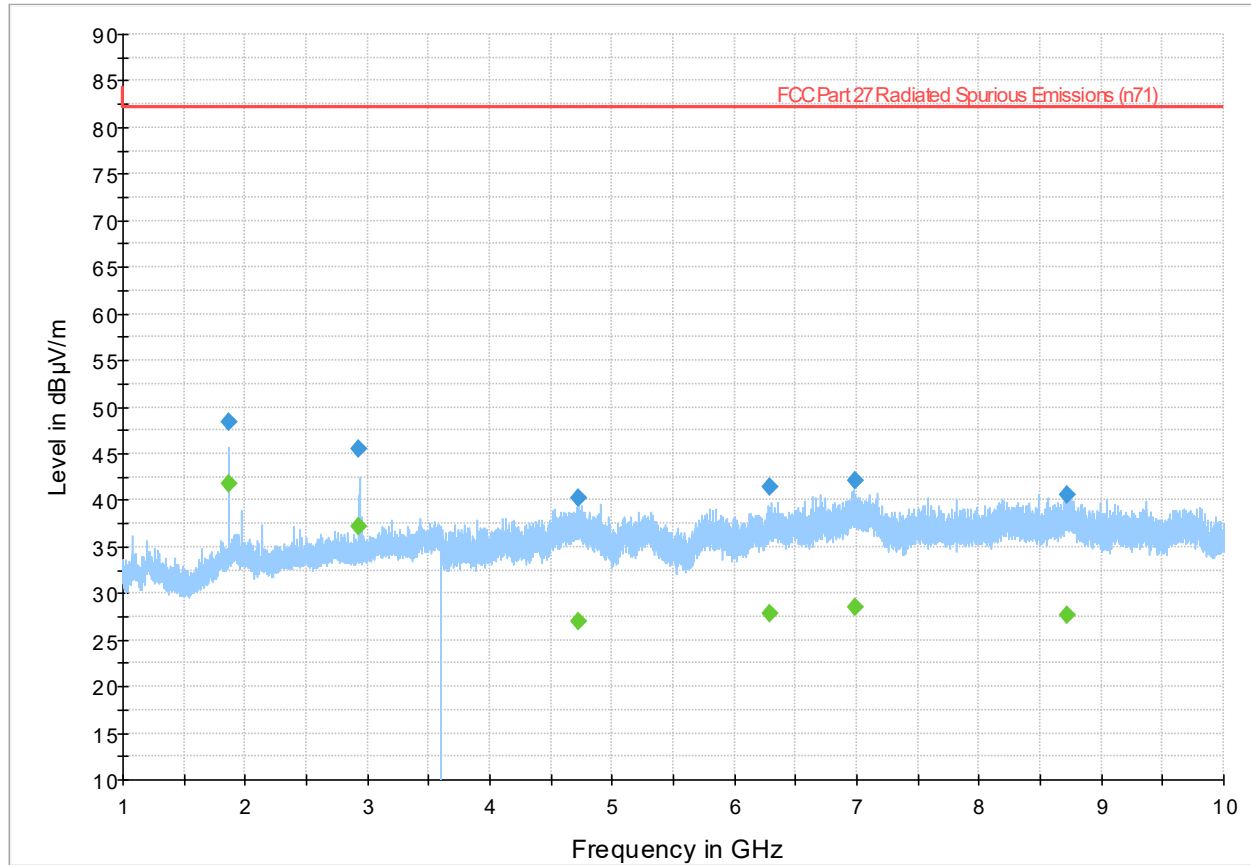


Figure 8.6-9: Radiated emissions spectral plot (1 GHz - 10 GHz)

Table 8.6-9: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1866.800000	---	41.80	---	---	5000.0	1000.000	198.0	V	205.0	-10.9
1866.800000	48.41	---	82.23	33.82	5000.0	1000.000	198.0	V	205.0	-10.9
2933.100000	---	37.26	---	---	5000.0	1000.000	225.0	V	144.0	-8.3
2933.100000	45.48	---	82.23	36.75	5000.0	1000.000	225.0	V	144.0	-8.3
4724.300000	40.25	---	82.23	41.98	5000.0	1000.000	279.0	H	158.0	-2.0
4724.300000	---	26.91	---	---	5000.0	1000.000	279.0	H	158.0	-2.0
6293.200000	41.47	---	82.23	40.76	5000.0	1000.000	340.0	H	0.0	0.4
6293.200000	---	27.84	---	---	5000.0	1000.000	340.0	H	0.0	0.4
6983.800000	42.09	---	82.23	40.14	5000.0	1000.000	354.0	V	160.0	1.0
6983.800000	---	28.56	---	---	5000.0	1000.000	354.0	V	160.0	1.0
8713.600000	40.54	---	82.23	41.69	5000.0	1000.000	243.0	H	358.0	2.7
8713.600000	---	27.62	---	---	5000.0	1000.000	243.0	H	358.0	2.7

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.