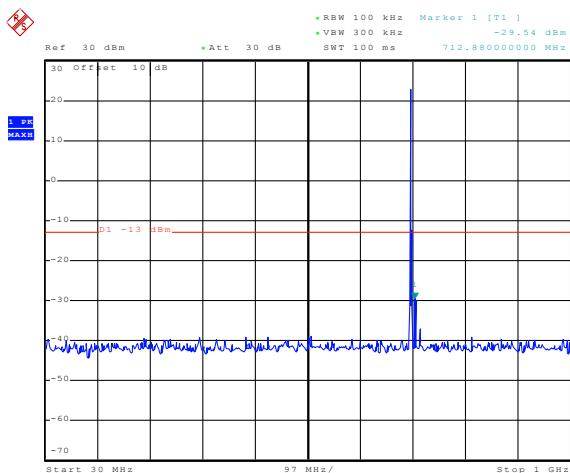


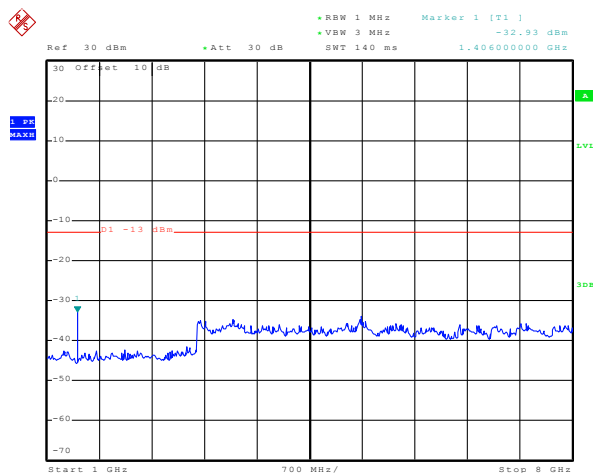
10MHz:

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 21:59:16

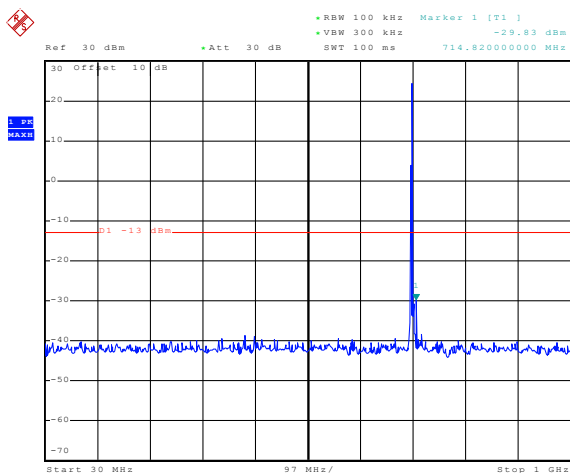
30MHz~1GHz



Date: 20.MAY.2015 21:50:19

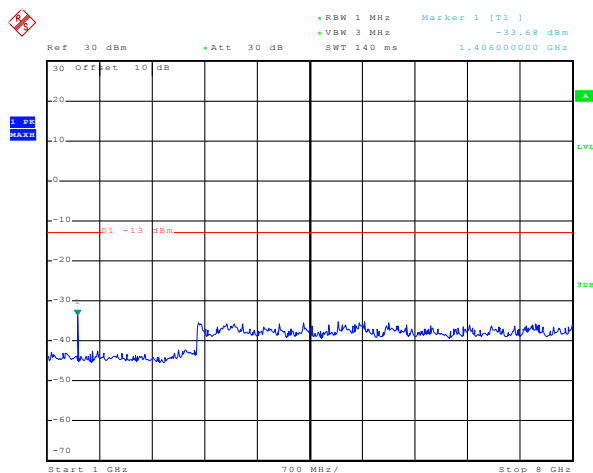
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:57:14

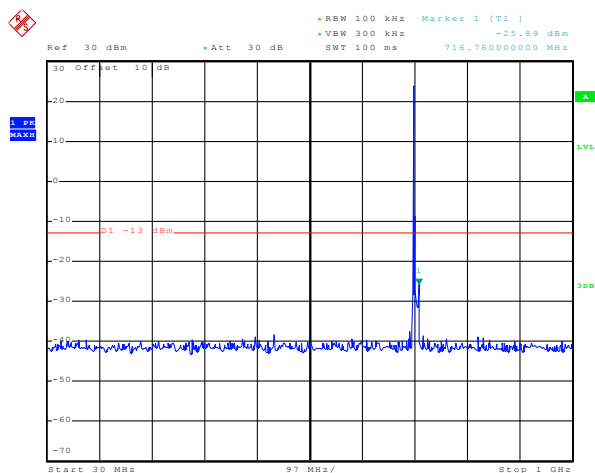
30MHz~1GHz



Date: 20.MAY.2015 21:51:59

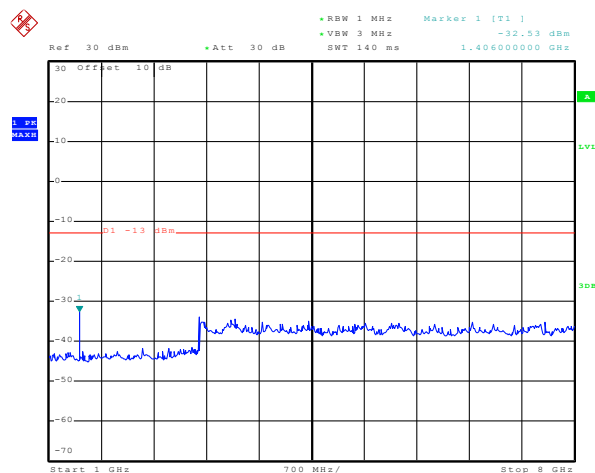
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:55:09

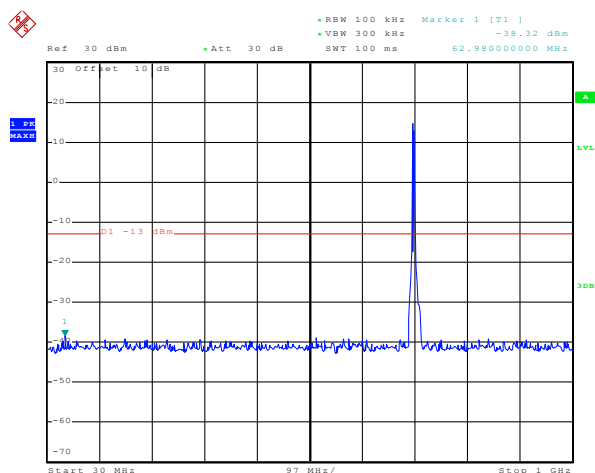
30MHz~1GHz



Date: 20.MAY.2015 21:53:19

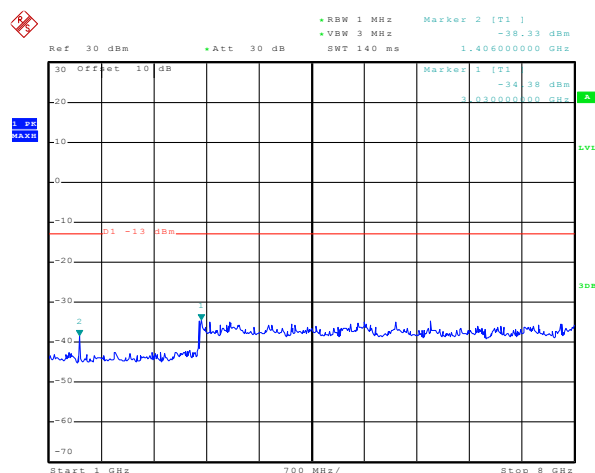
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 21:59:53

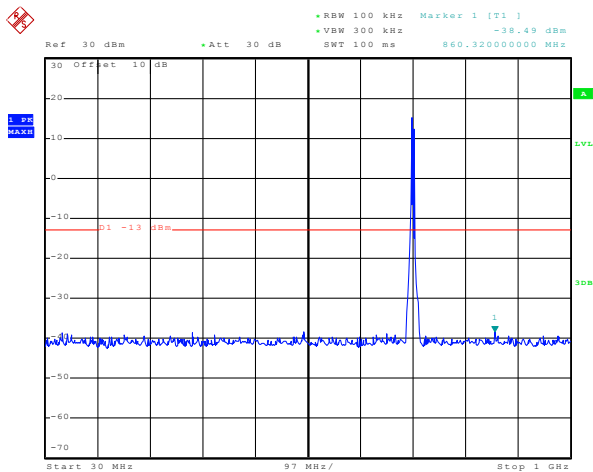
30MHz~1GHz



Date: 20.MAY.2015 21:50:50

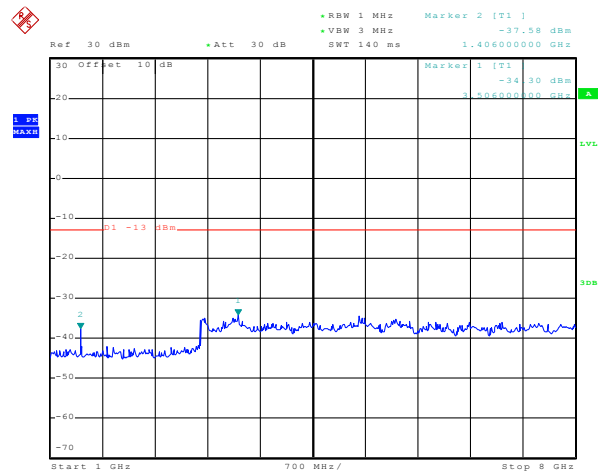
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:58:07

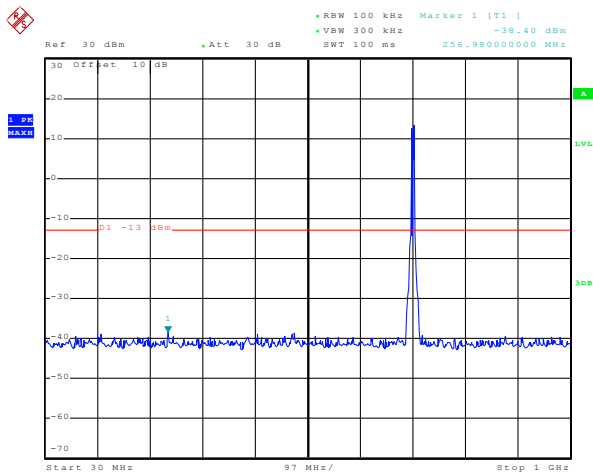
30MHz~1GHz



Date: 20.MAY.2015 21:52:25

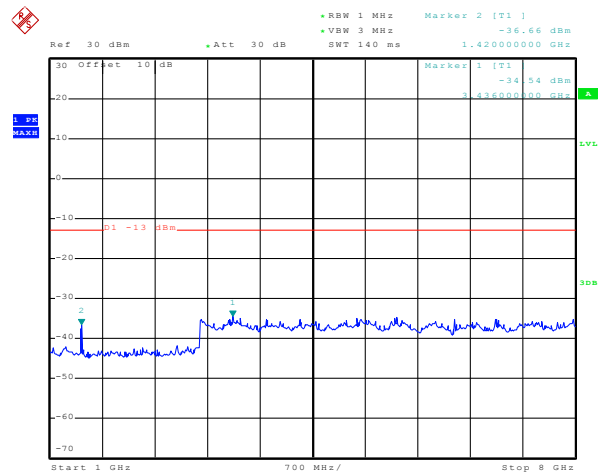
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:55:53

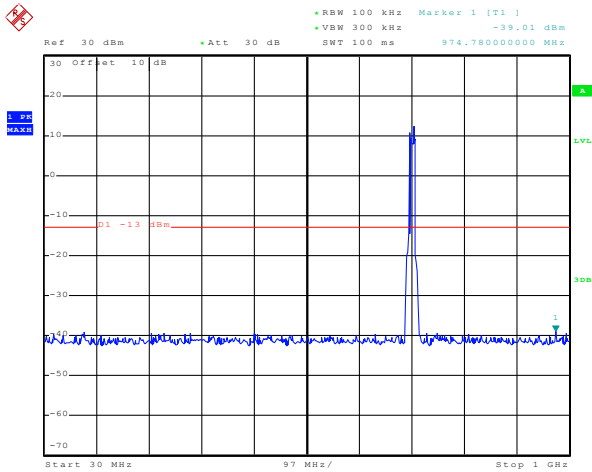
30MHz~1GHz



Date: 20.MAY.2015 21:53:52

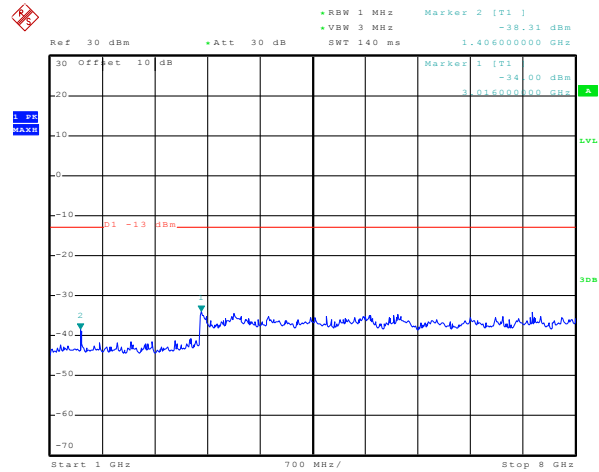
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 22:00:30

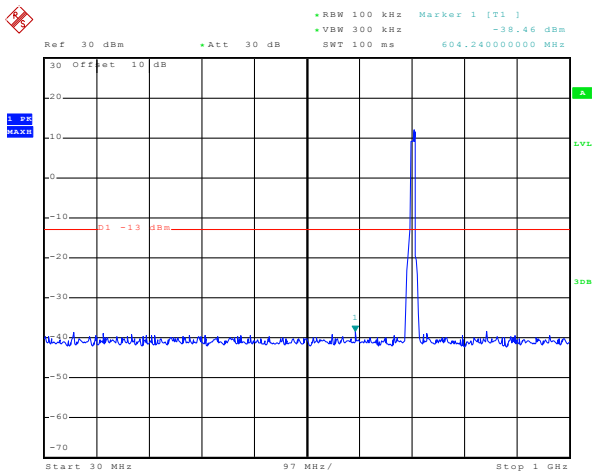
30MHz~1GHz



Date: 20.MAY.2015 21:51:23

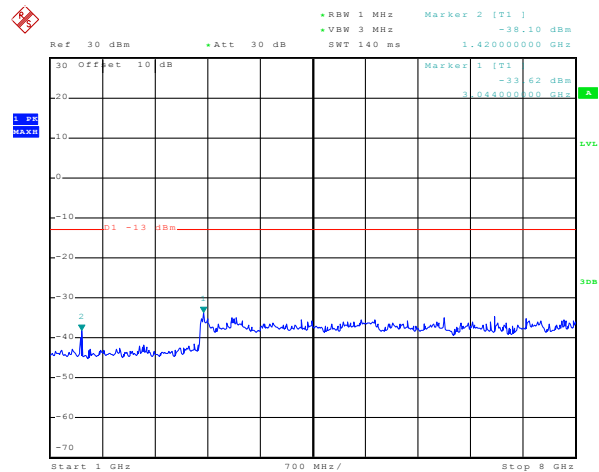
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:58:45

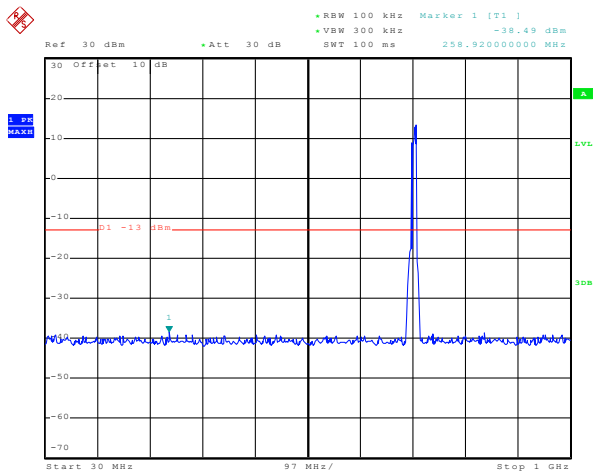
30MHz~1GHz



Date: 20.MAY.2015 21:52:48

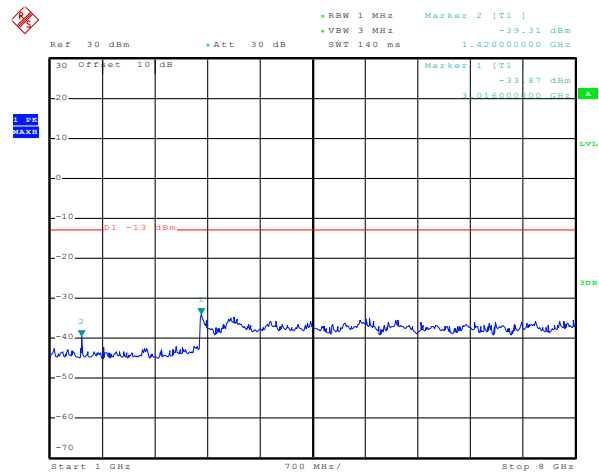
1GHz~8GHz

Test Mode:	LTE band 17(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:56:42

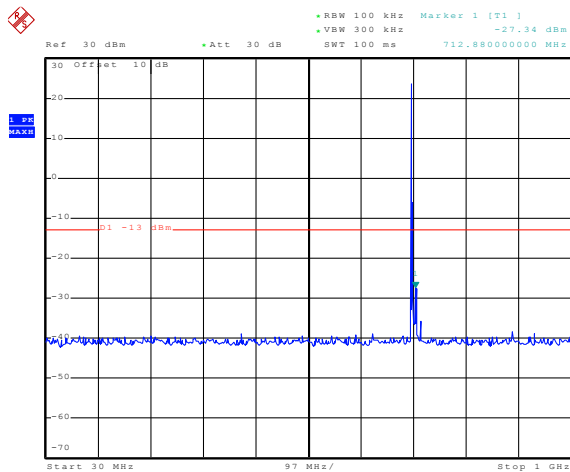
30MHz~1GHz



Date: 20.MAY.2015 21:54:18

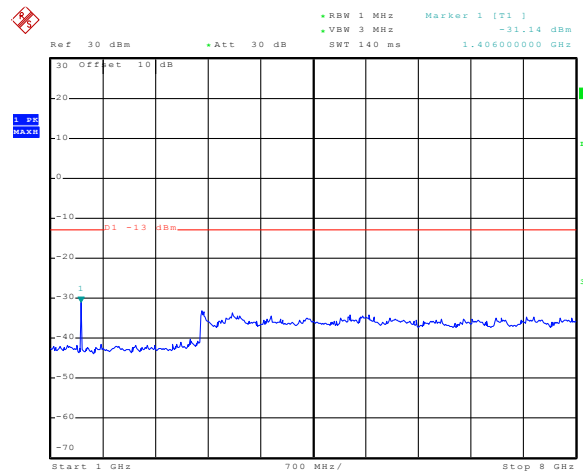
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 21:59:08

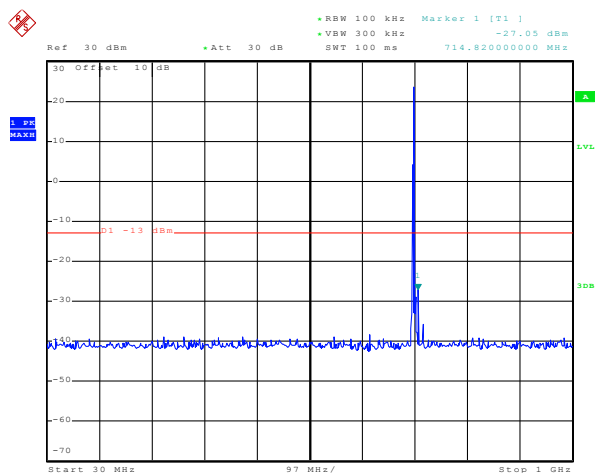
30MHz~1GHz



Date: 20.MAY.2015 21:50:12

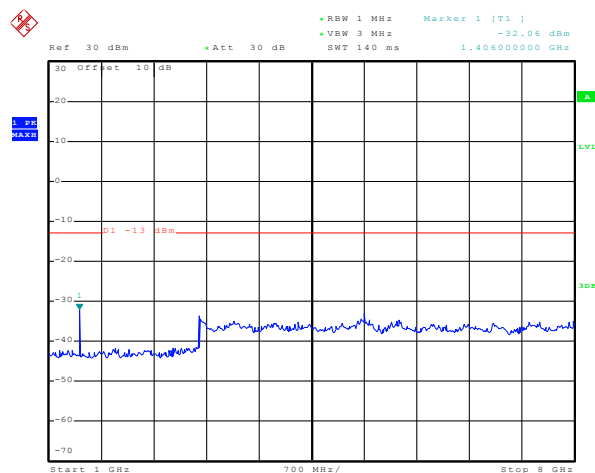
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:57:05

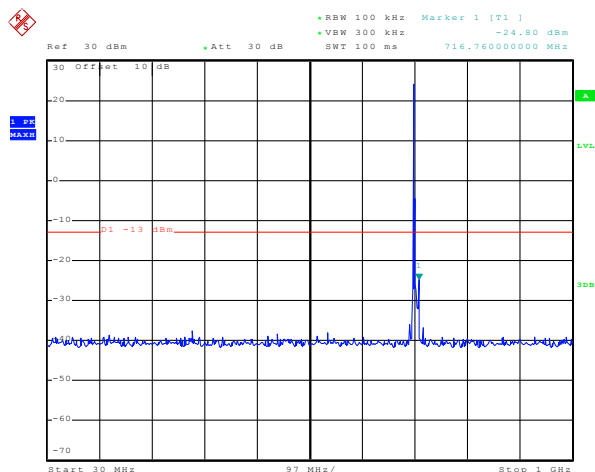
30MHz~1GHz



Date: 20.MAY.2015 21:51:52

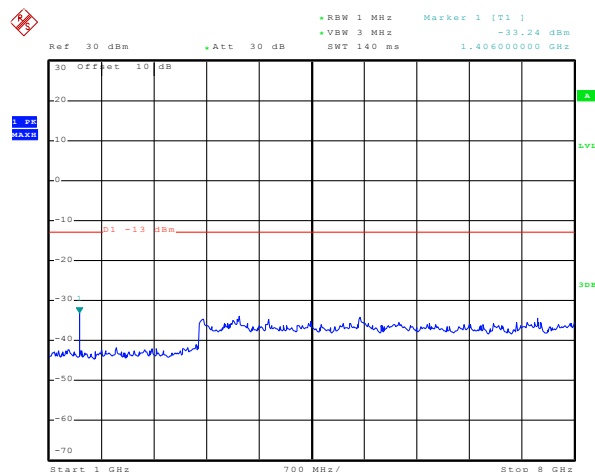
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:54:59

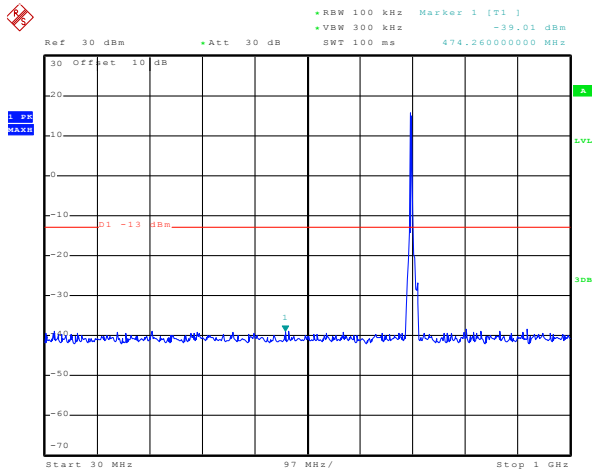
30MHz~1GHz



Date: 20.MAY.2015 21:53:10

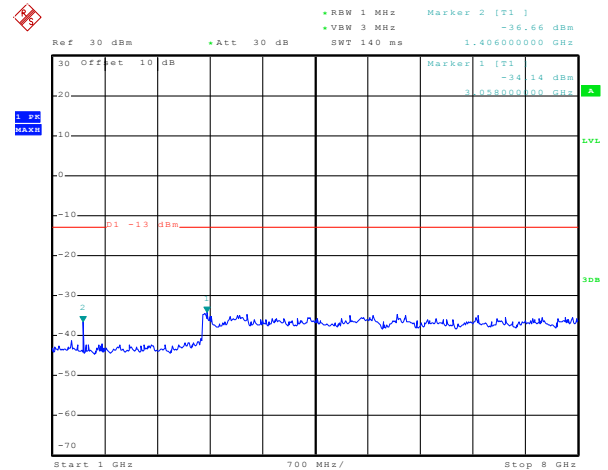
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 21:59:39

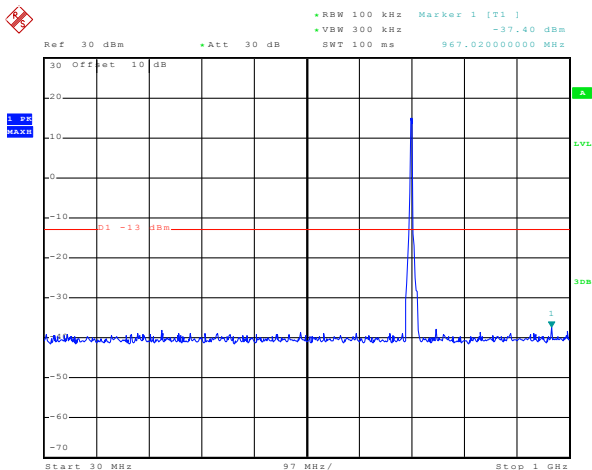
30MHz~1GHz



Date: 20.MAY.2015 21:50:40

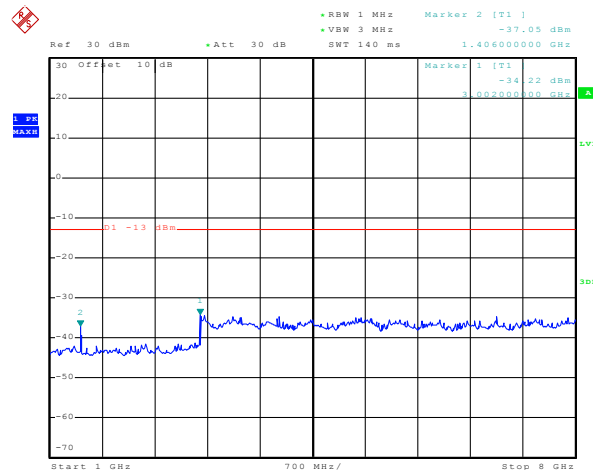
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:57:51

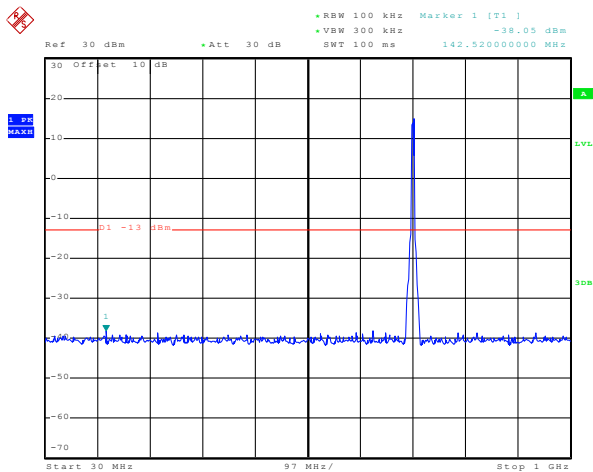
30MHz~1GHz



Date: 20.MAY.2015 21:52:16

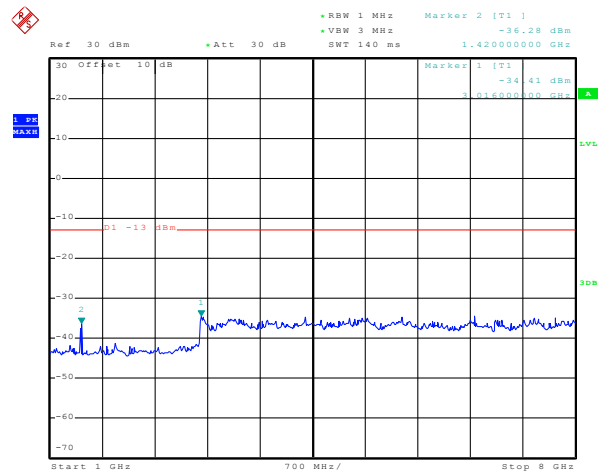
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:55:38

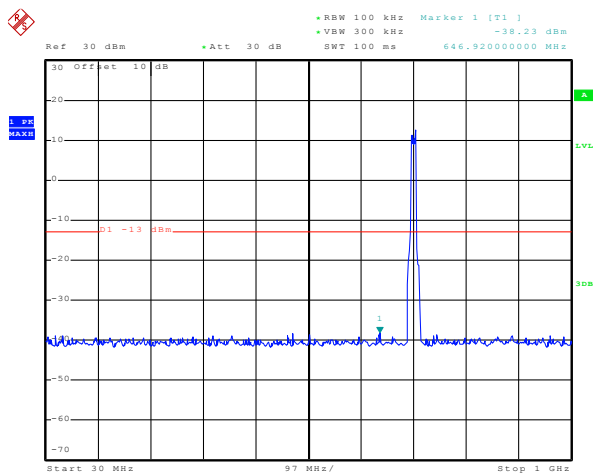
30MHz~1GHz



Date: 20.MAY.2015 21:53:40

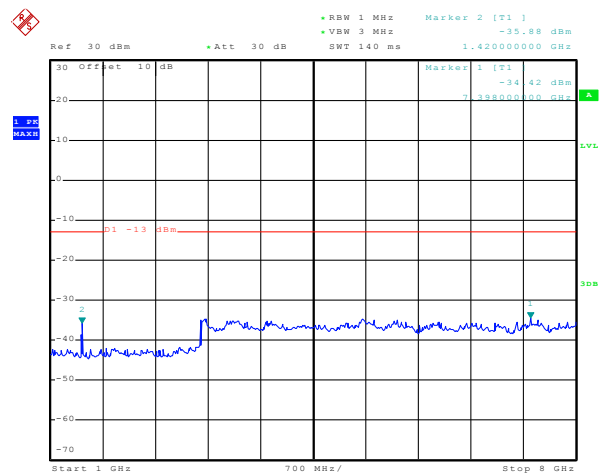
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 20.MAY.2015 22:00:20

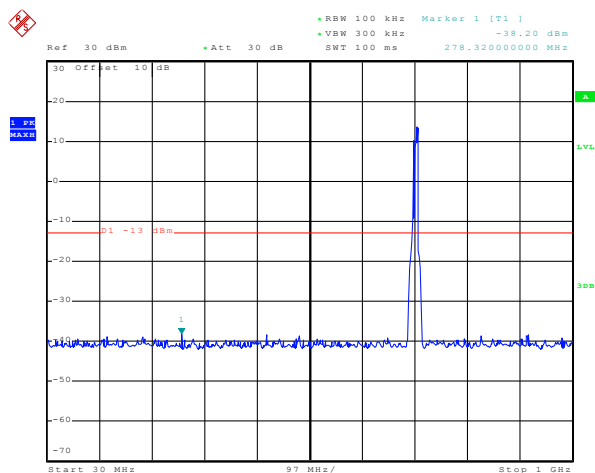
30MHz~1GHz



Date: 20.MAY.2015 21:51:09

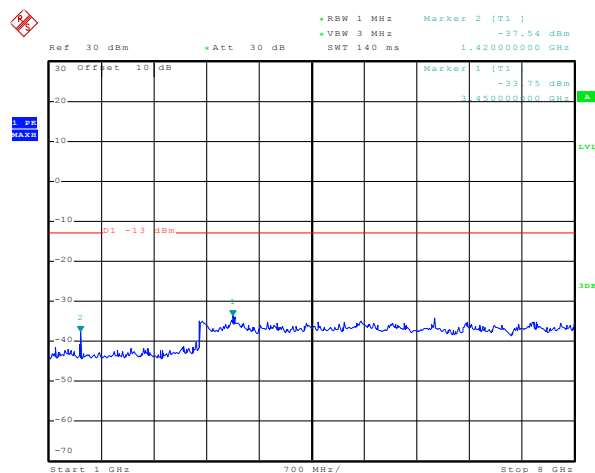
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 20.MAY.2015 21:58:27

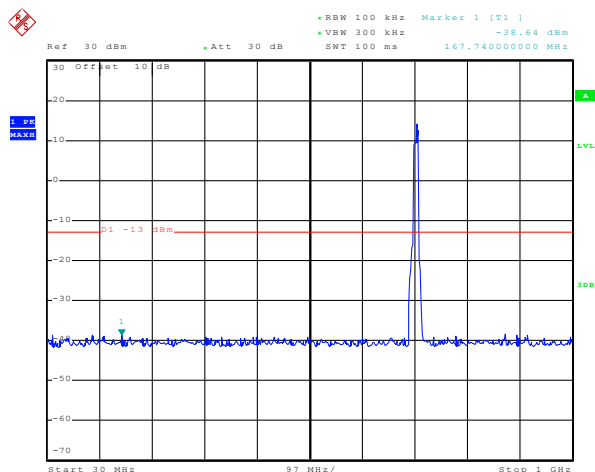
30MHz~1GHz



Date: 20.MAY.2015 21:52:40

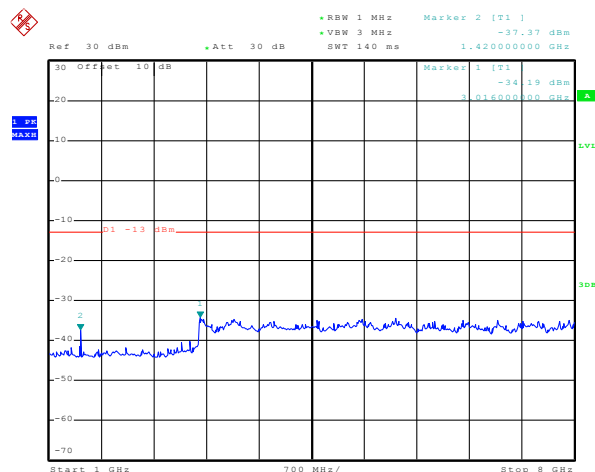
1GHz~8GHz

Test Mode:	LTE band 17(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 20.MAY.2015 21:56:20

30MHz~1GHz



Date: 20.MAY.2015 21:54:09

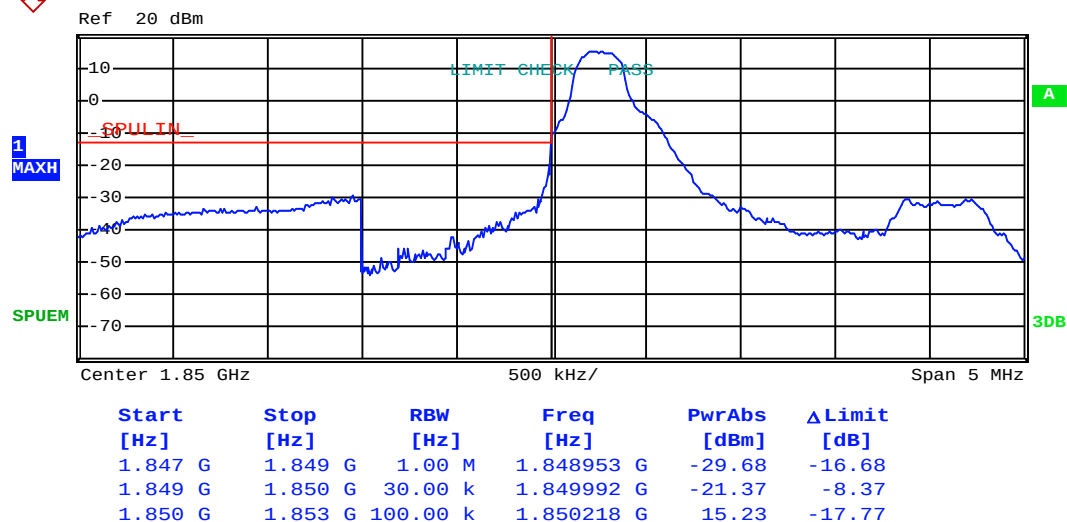
1GHz~8GHz

Band edge emission:

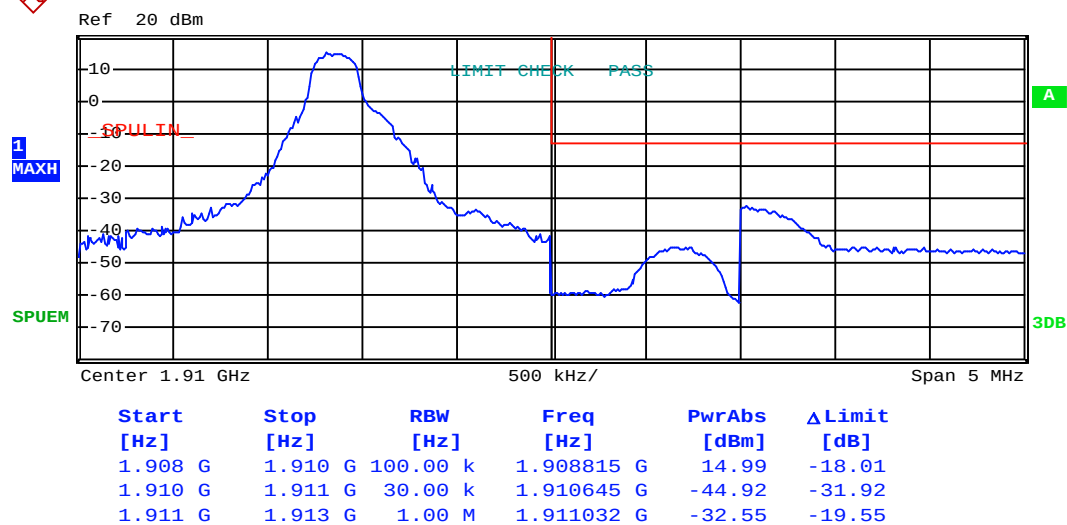
LTE band 2 part:

1.4MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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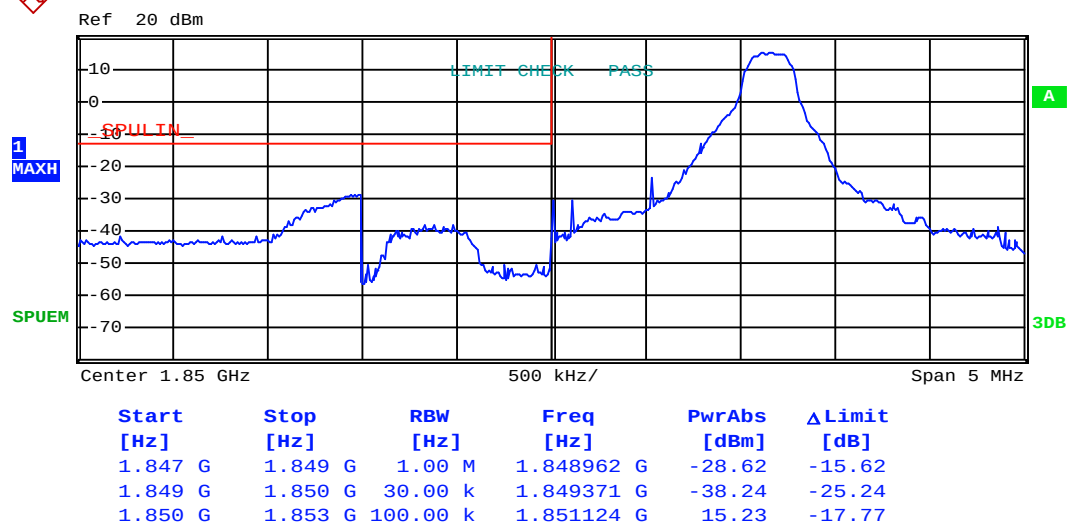


Lowest channel

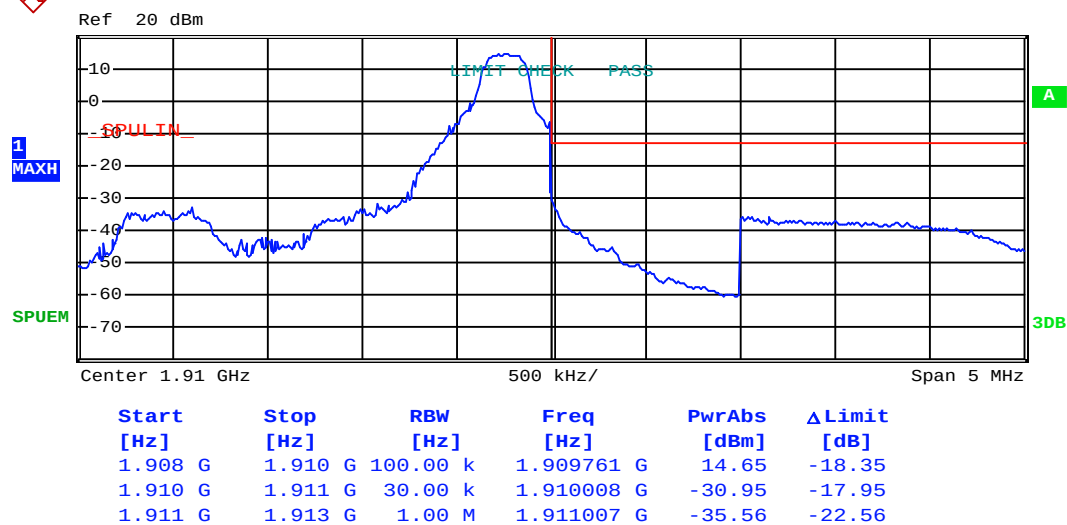


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 5)
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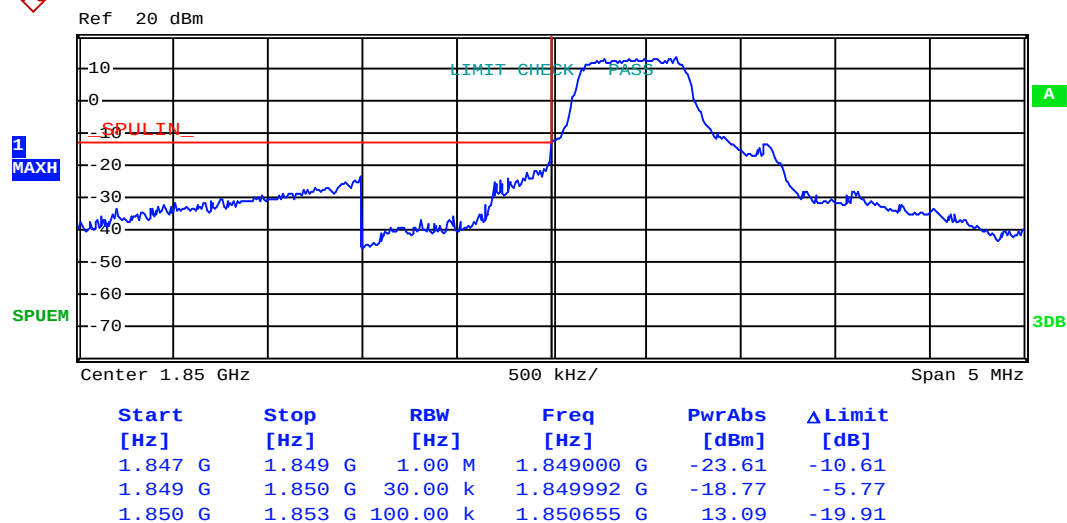


Lowest channel

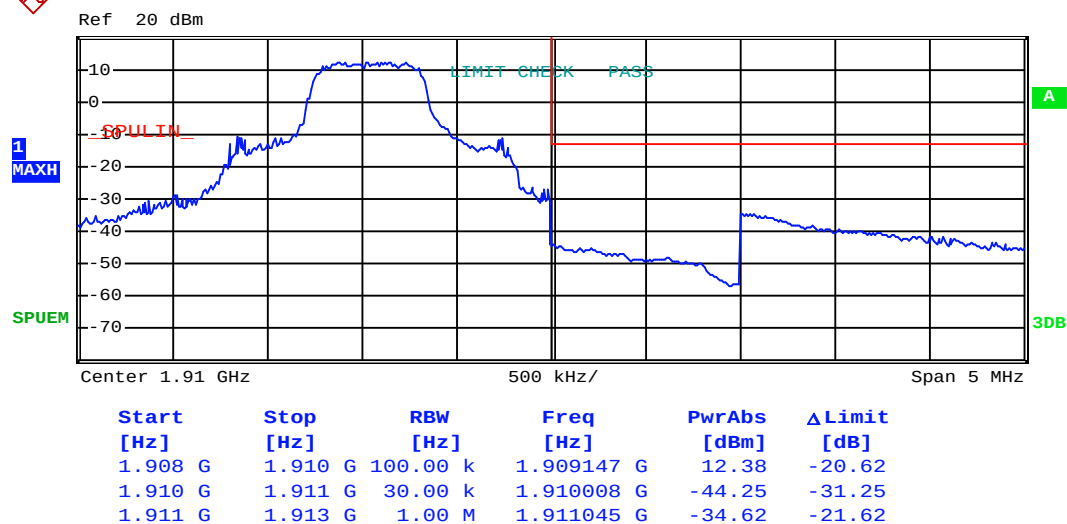


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 3 & RB Offset 0)
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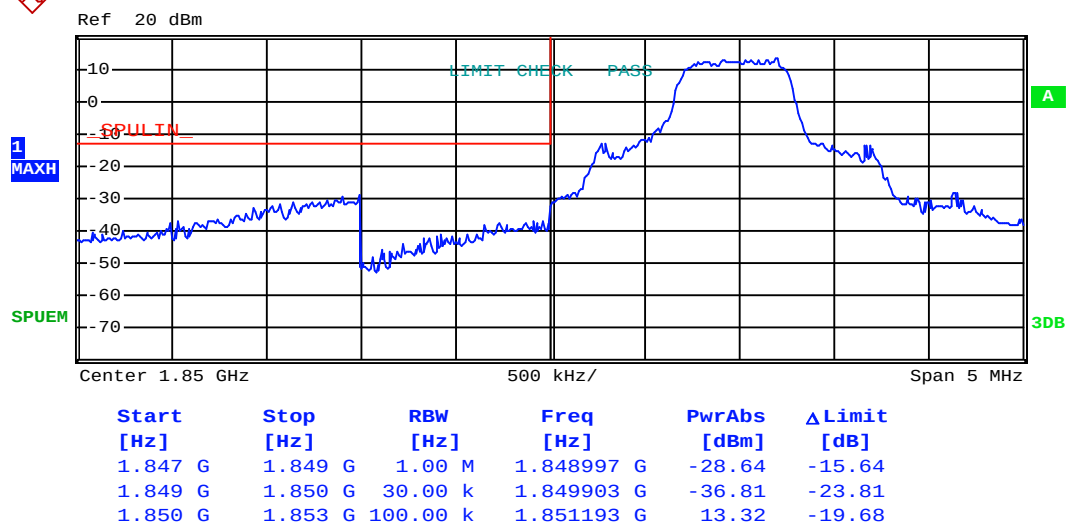
Lowest channel



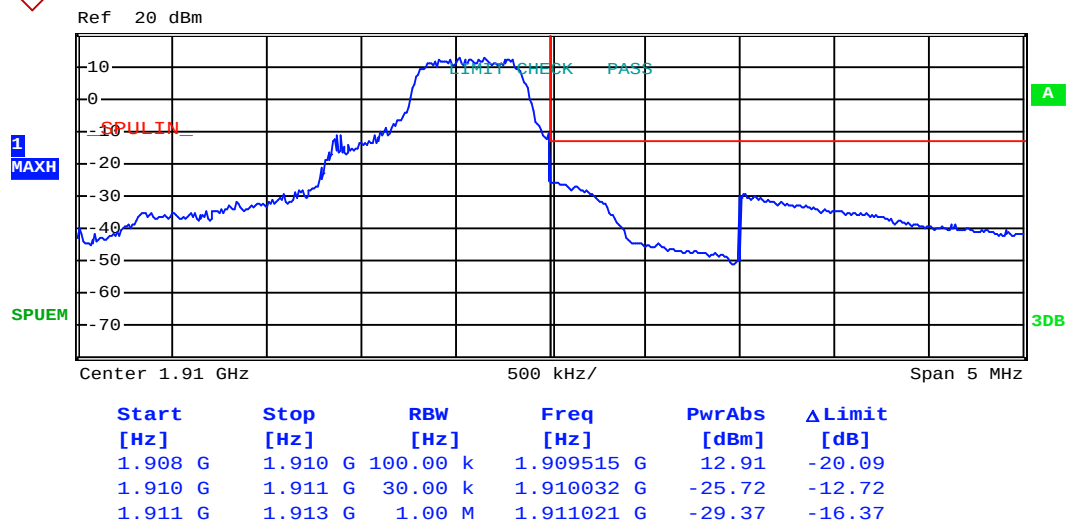
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 3 & RB Offset 2)



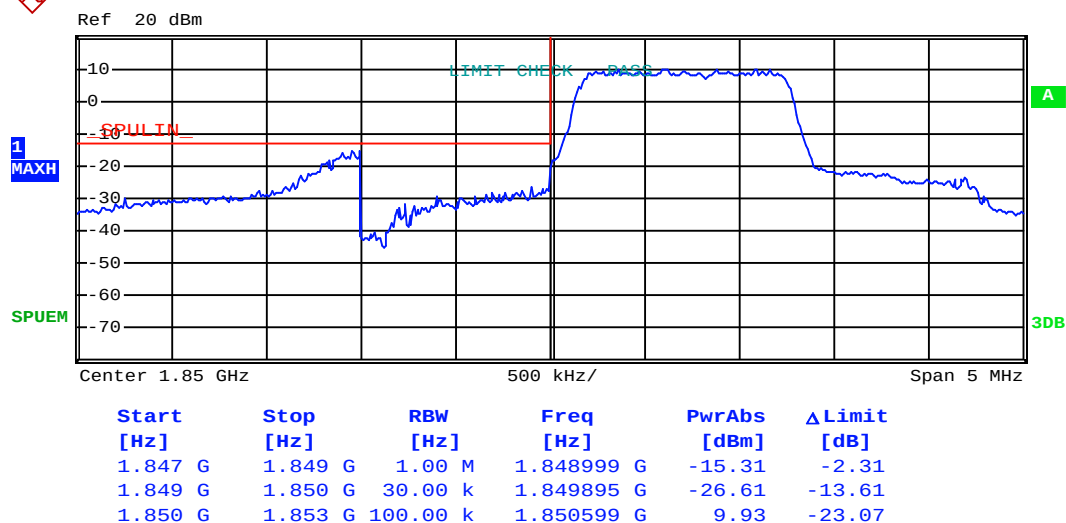
Lowest channel



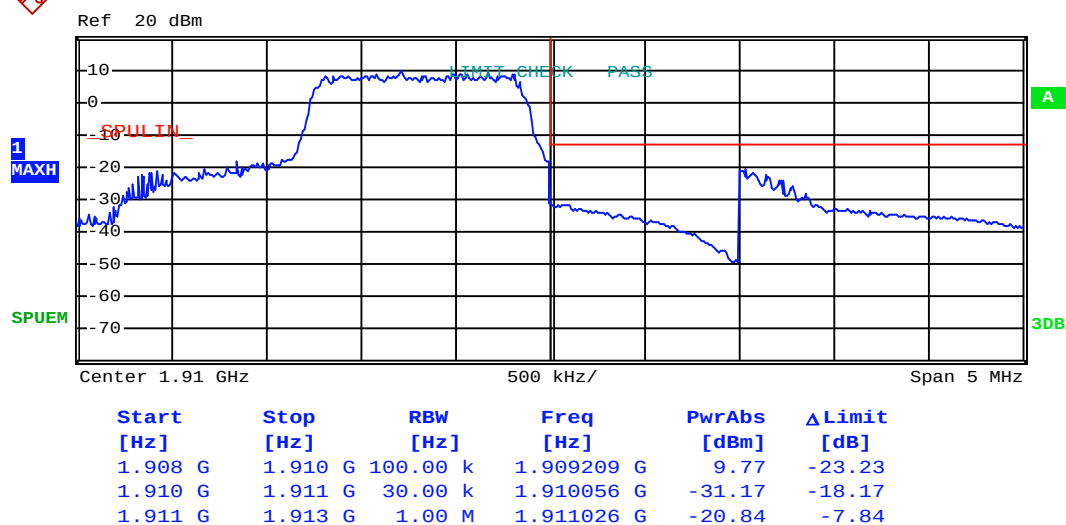
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 6 & RB Offset 0)

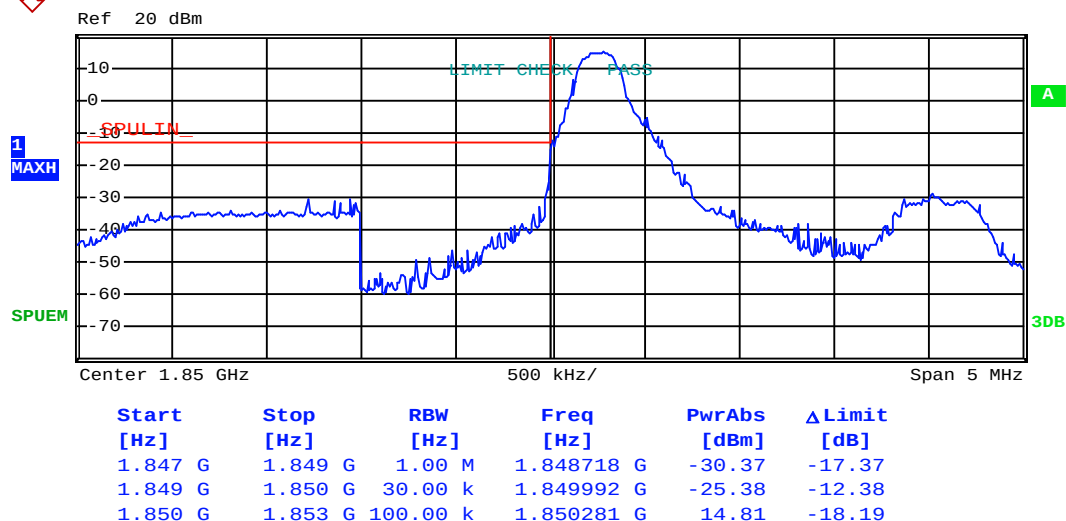


Lowest channel

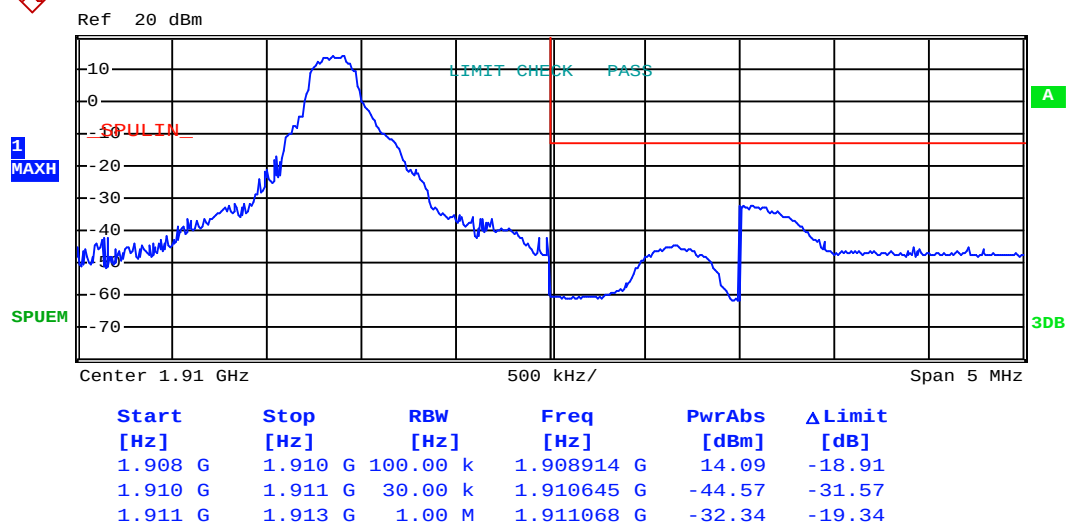


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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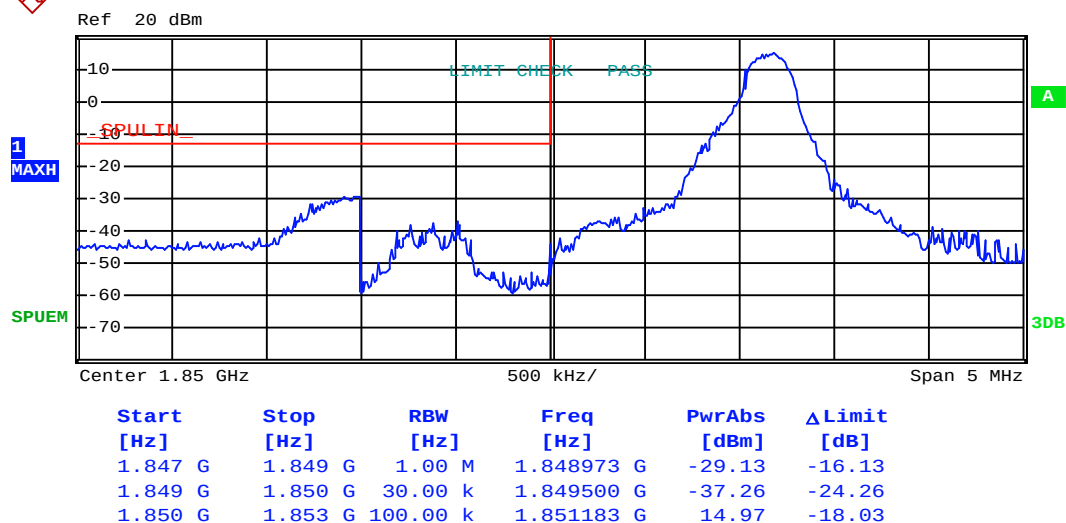
Lowest channel



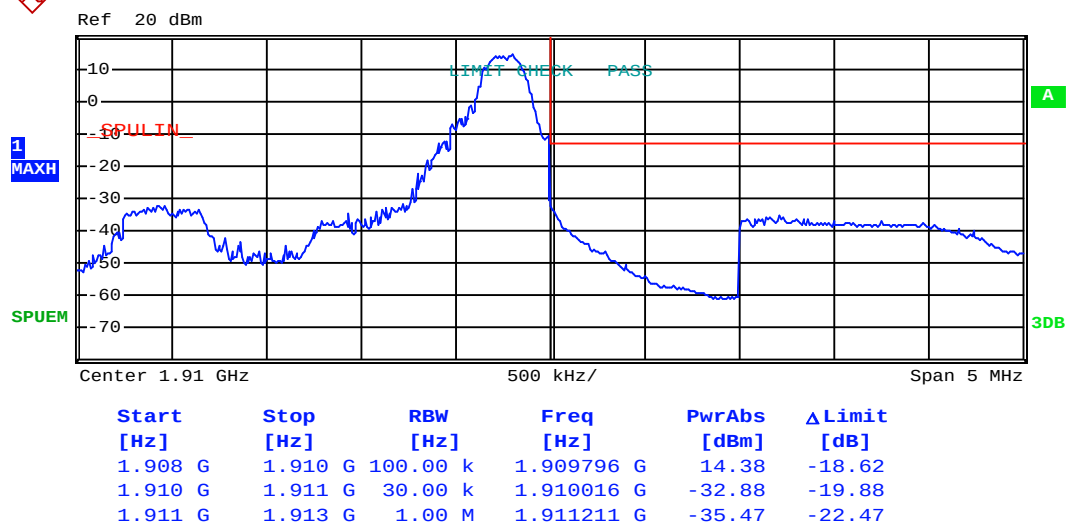
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 5)



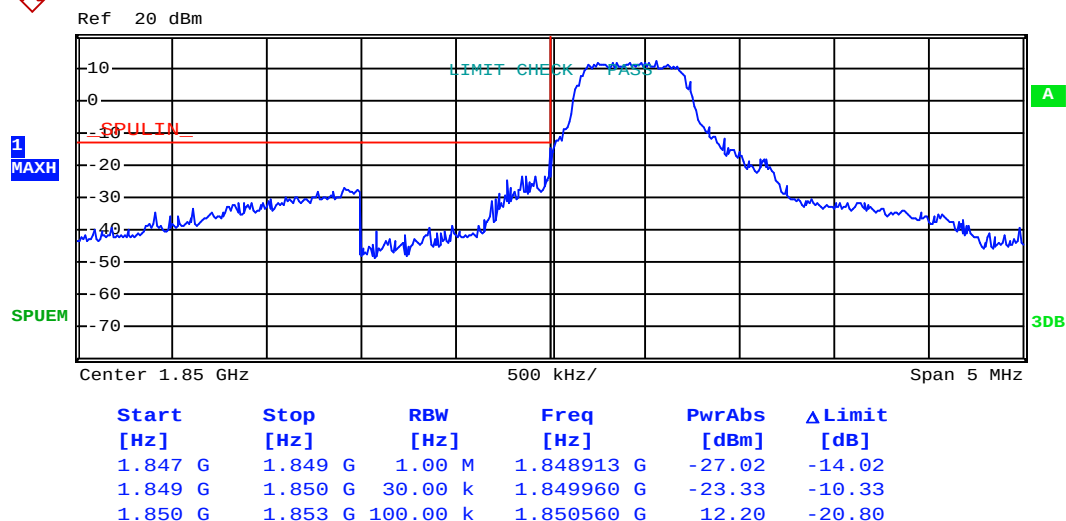
Lowest channel



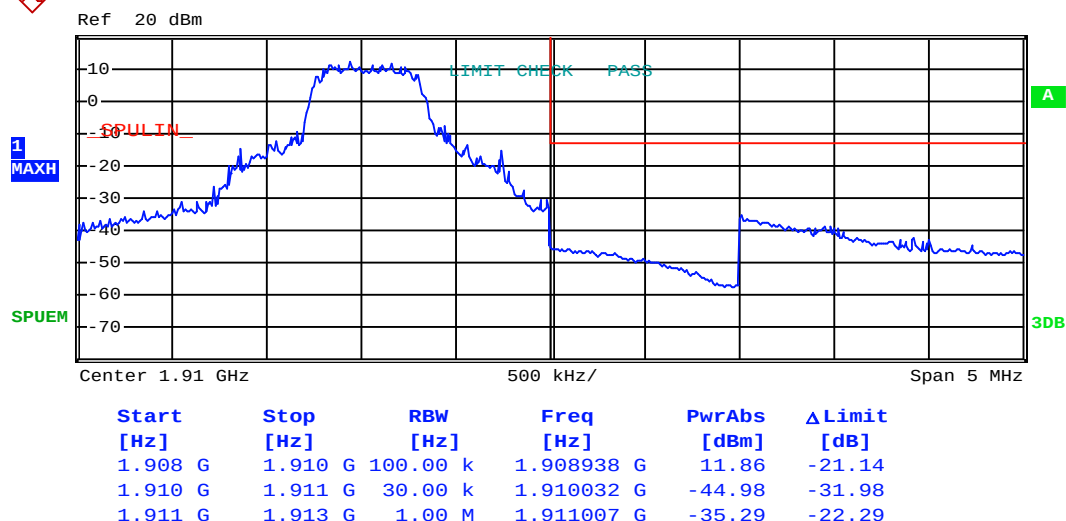
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 3 & RB Offset 0)

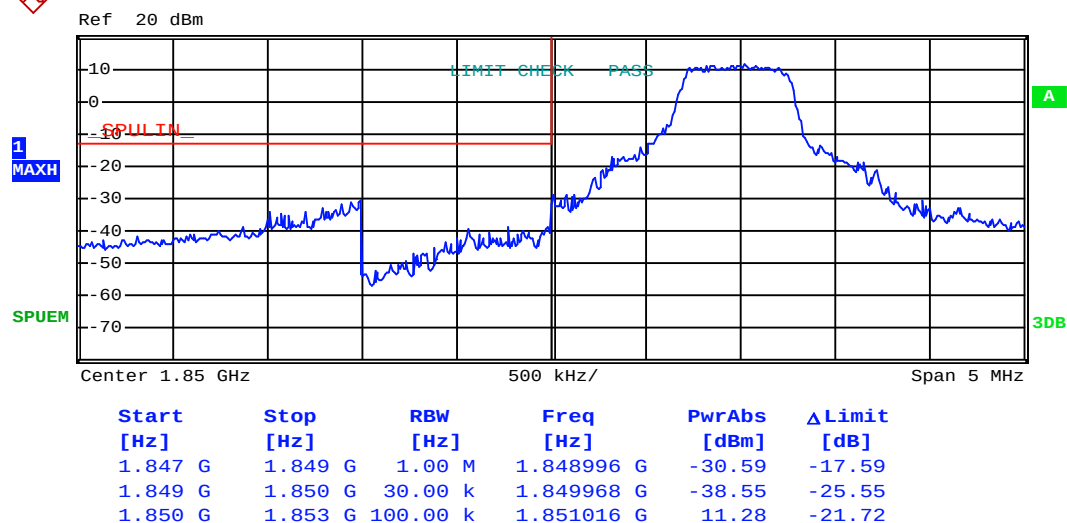


Lowest channel

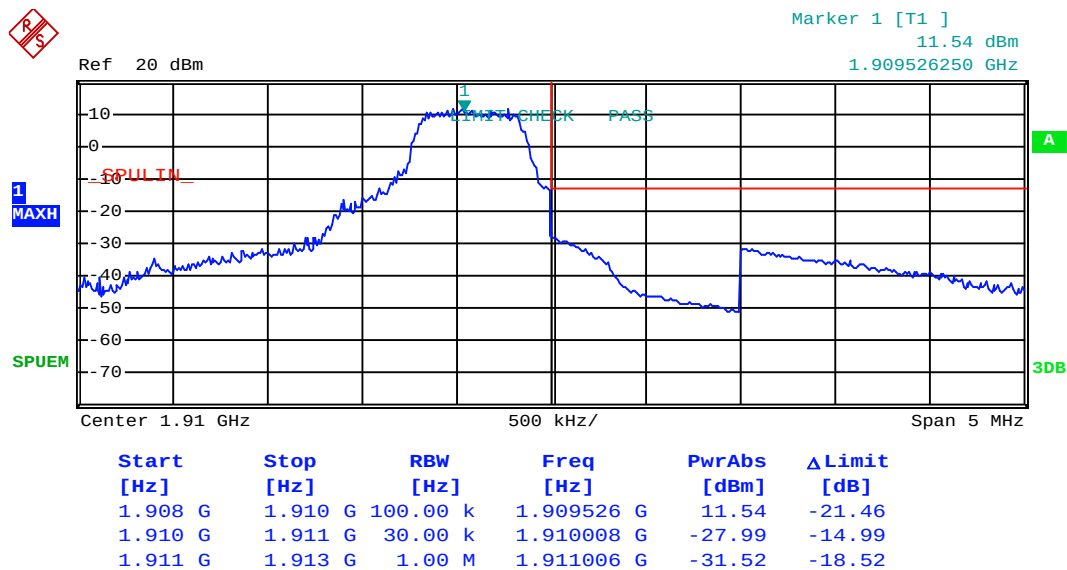


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 3 & RB Offset 2)
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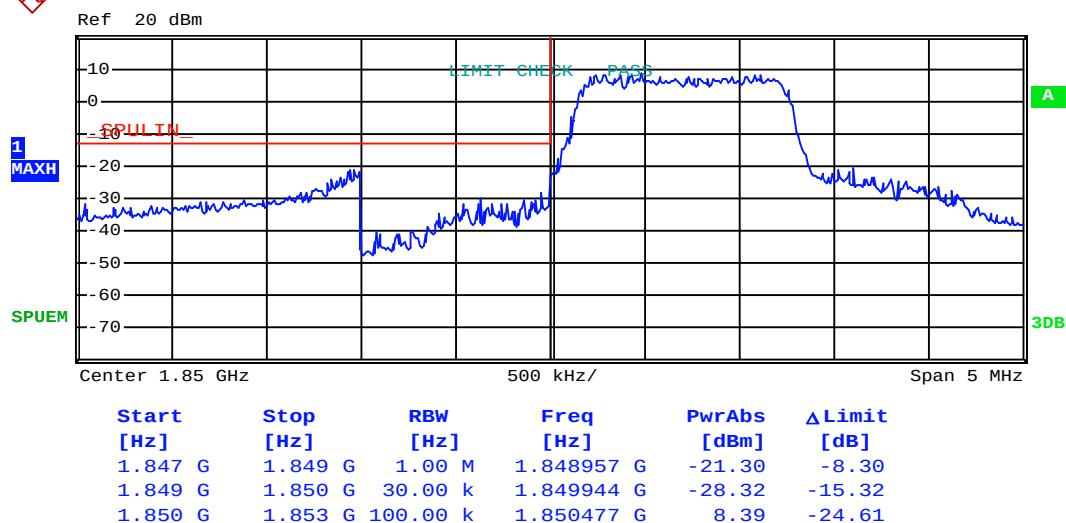
Lowest channel



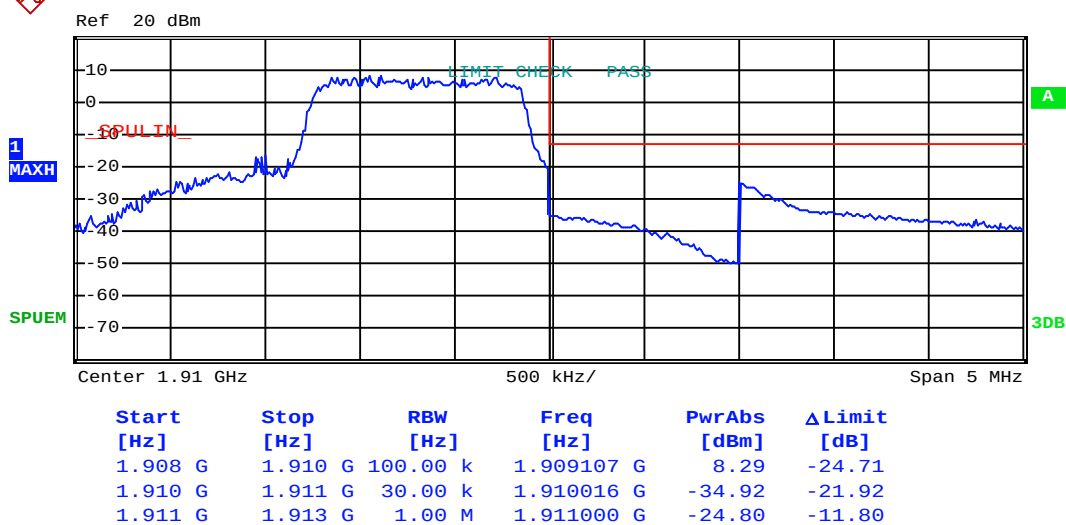
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 6 & RB Offset 0)



Lowest channel

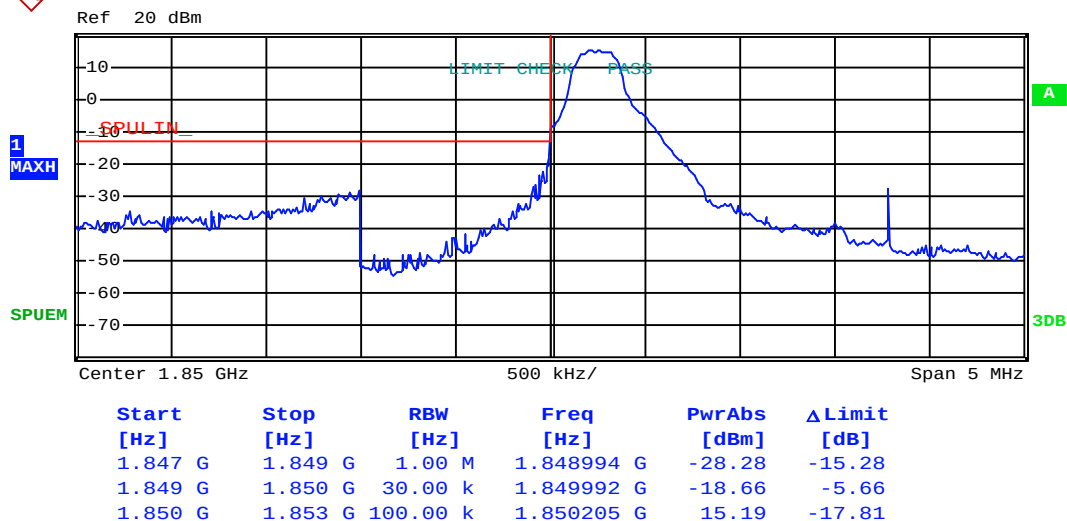


Highest channel

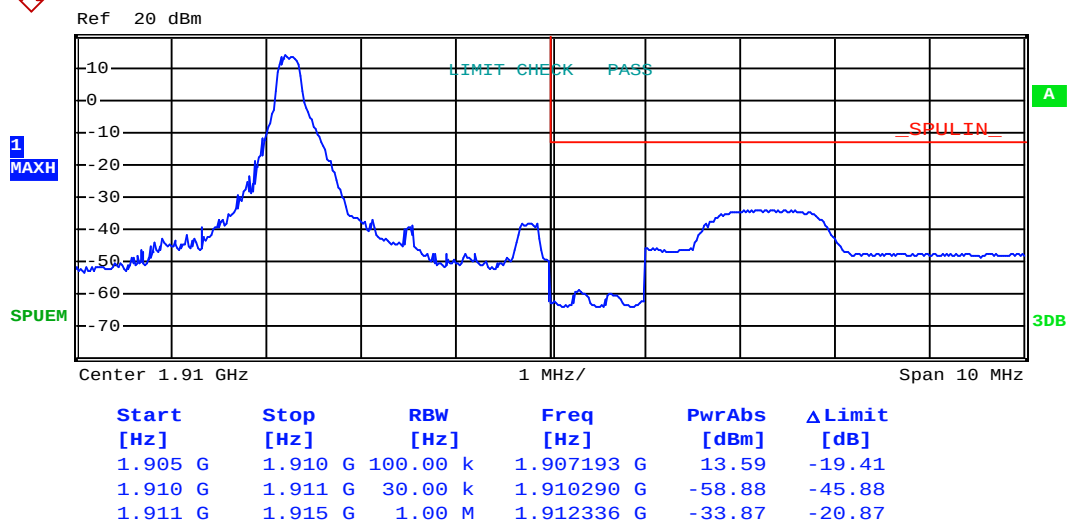
3MHz:

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)



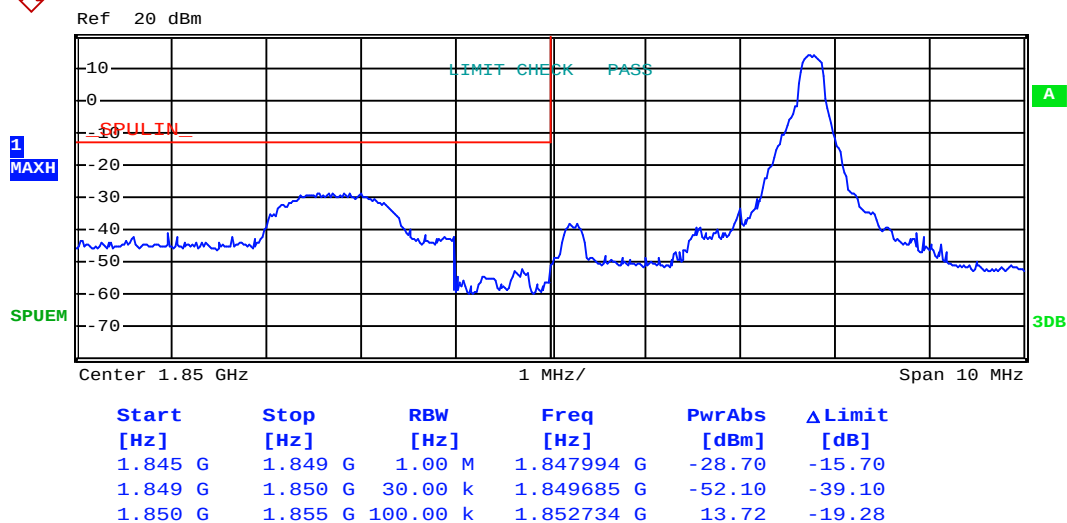
Lowest channel



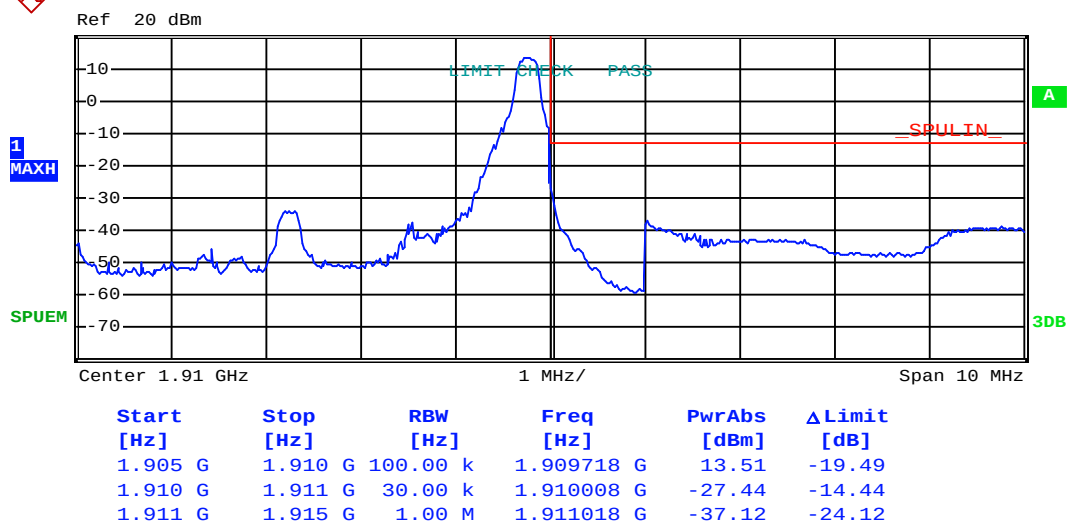
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 14)

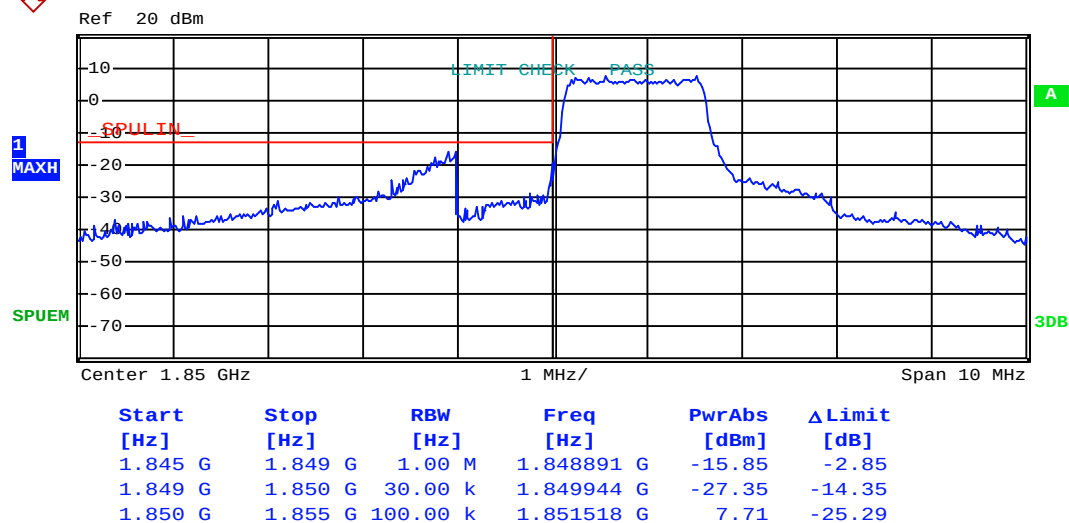


Lowest channel

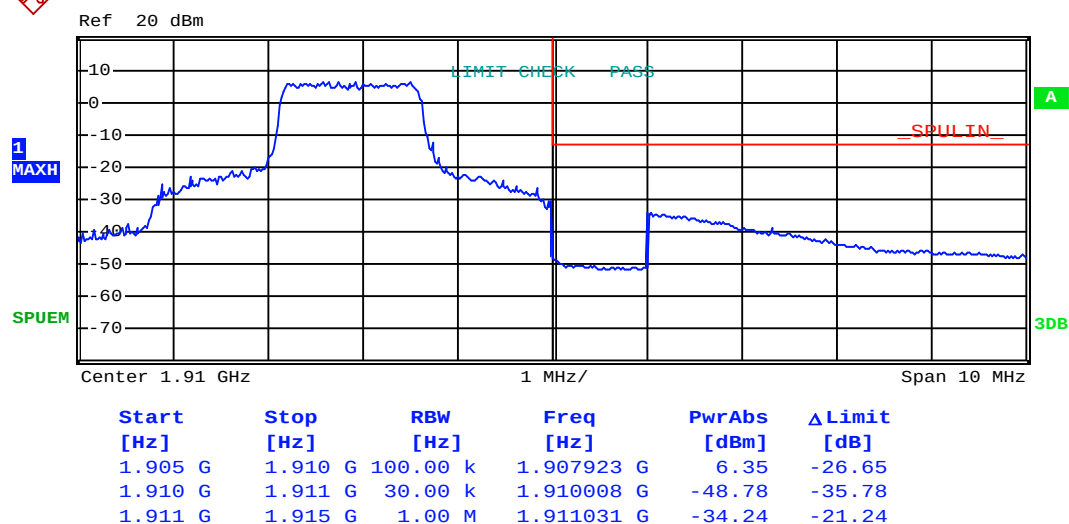


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 8 & RB Offset 0)
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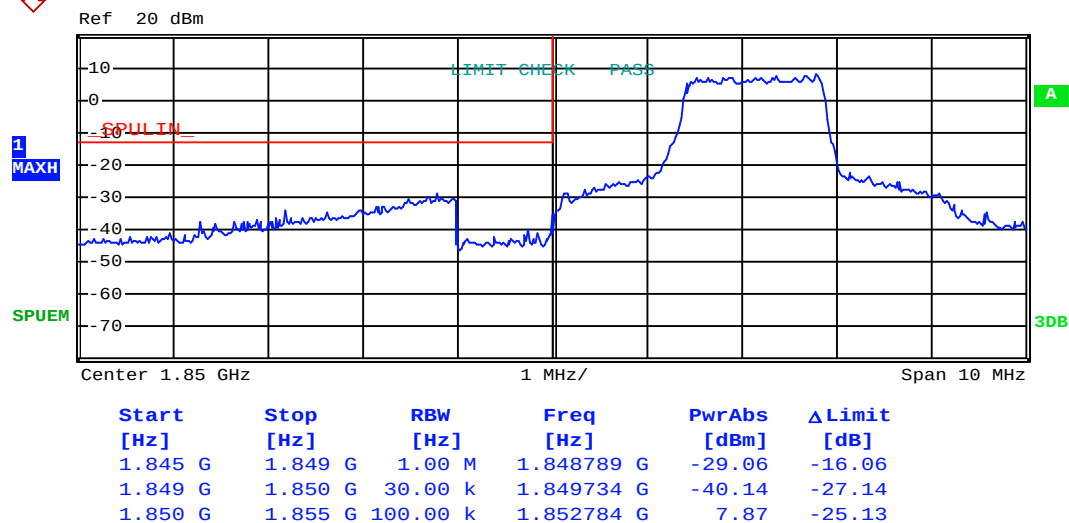


Lowest channel

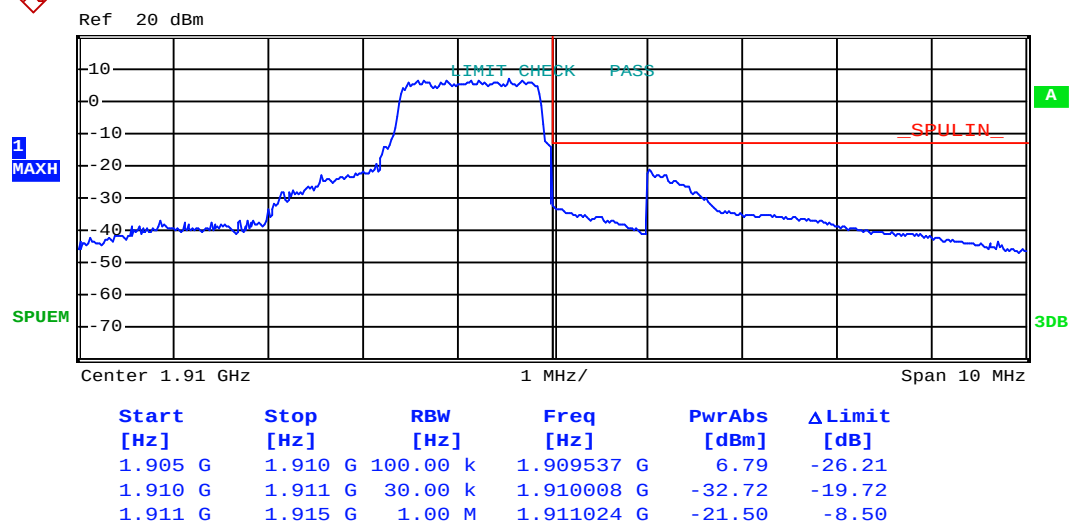


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 8 & RB Offset 7)
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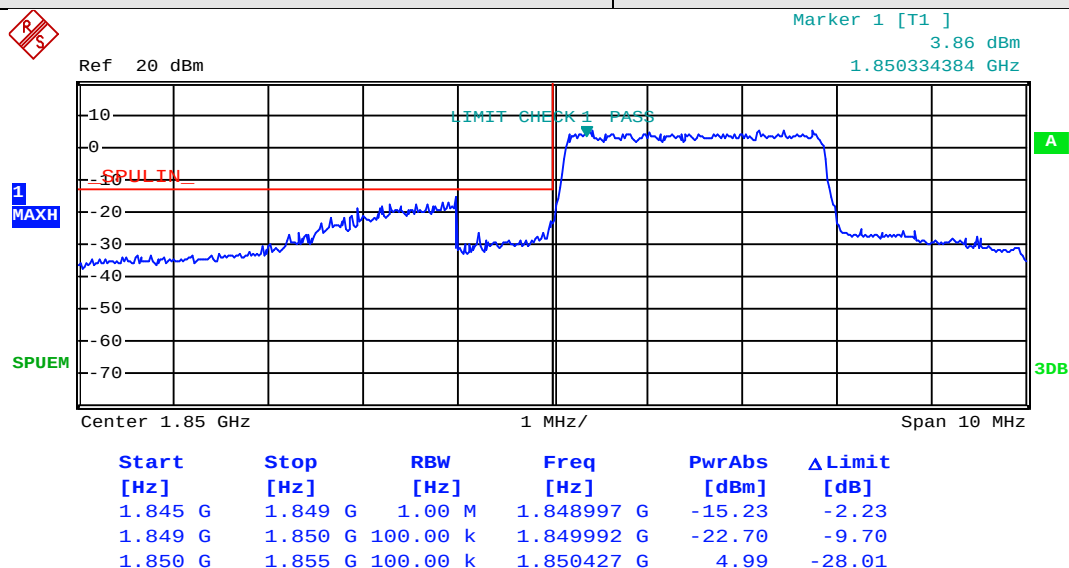


Lowest channel

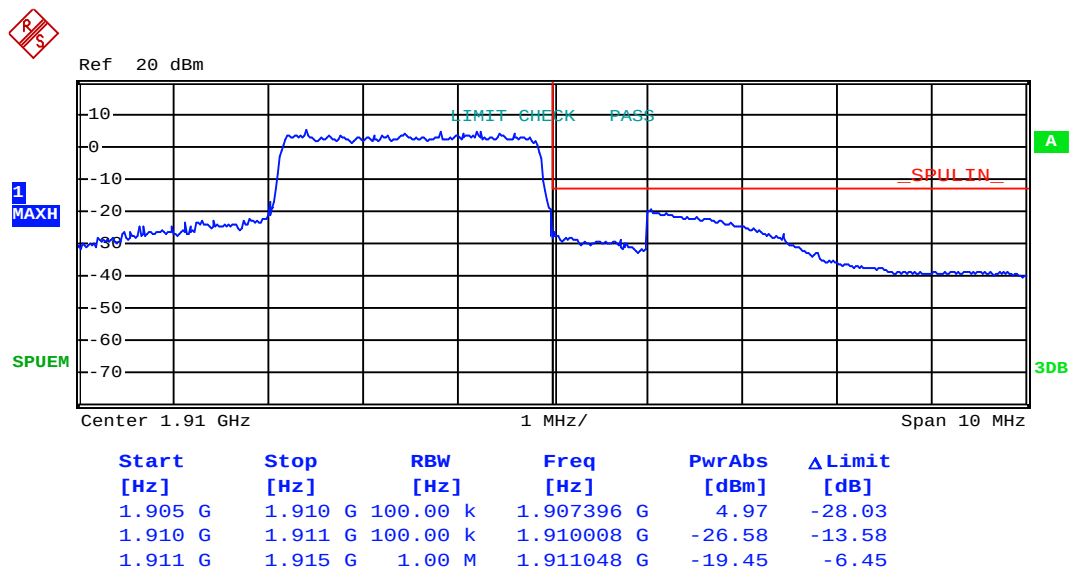


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 15 & RB Offset 0)
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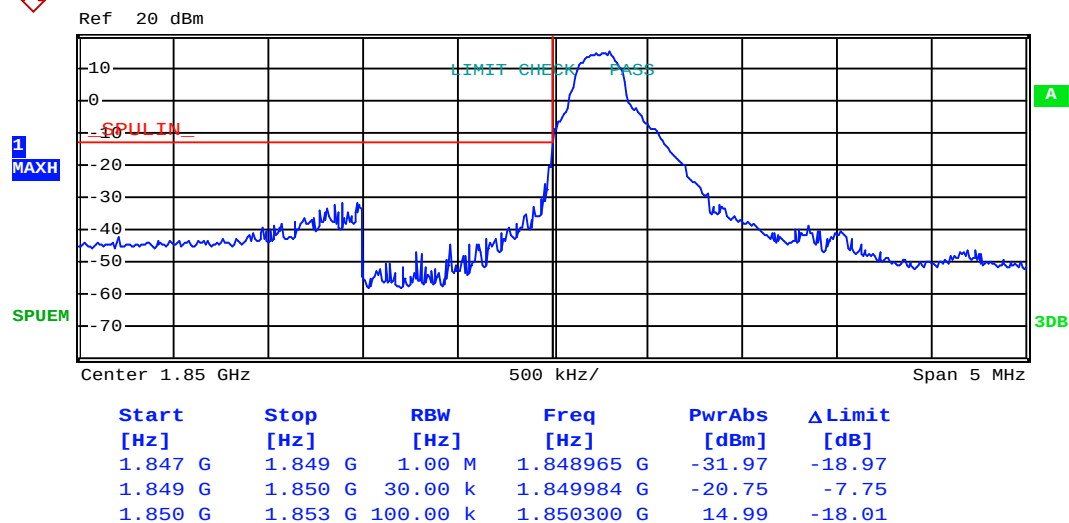


Lowest channel

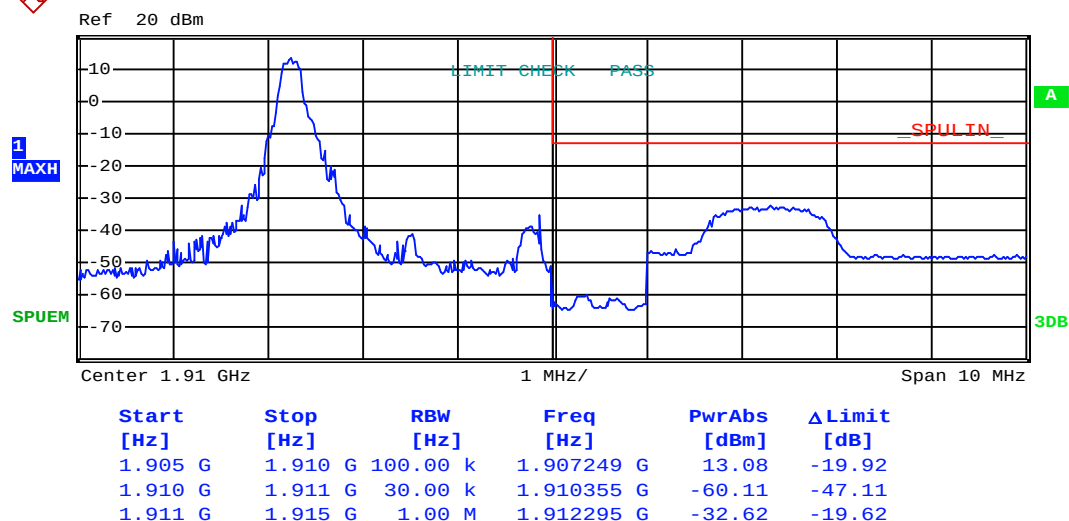


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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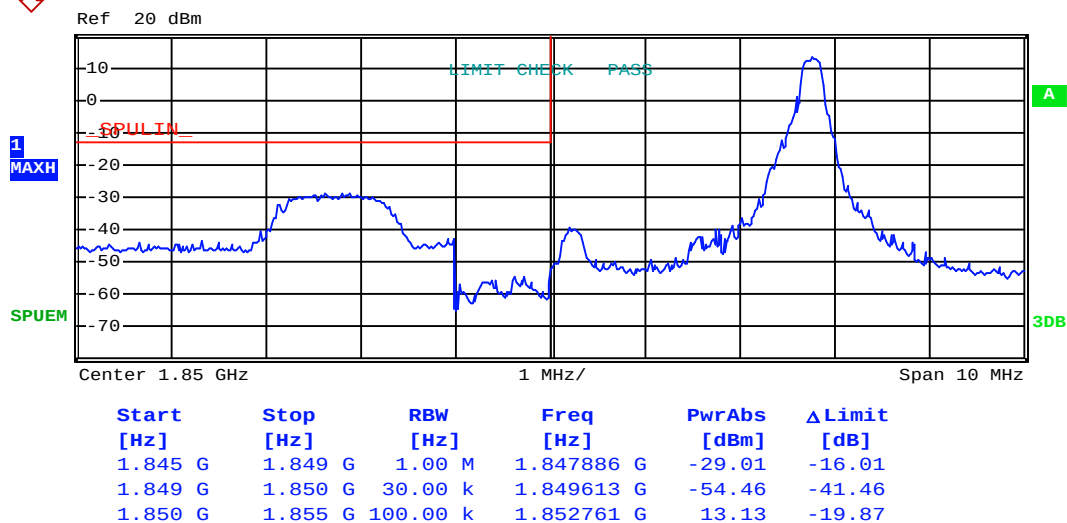
Lowest channel



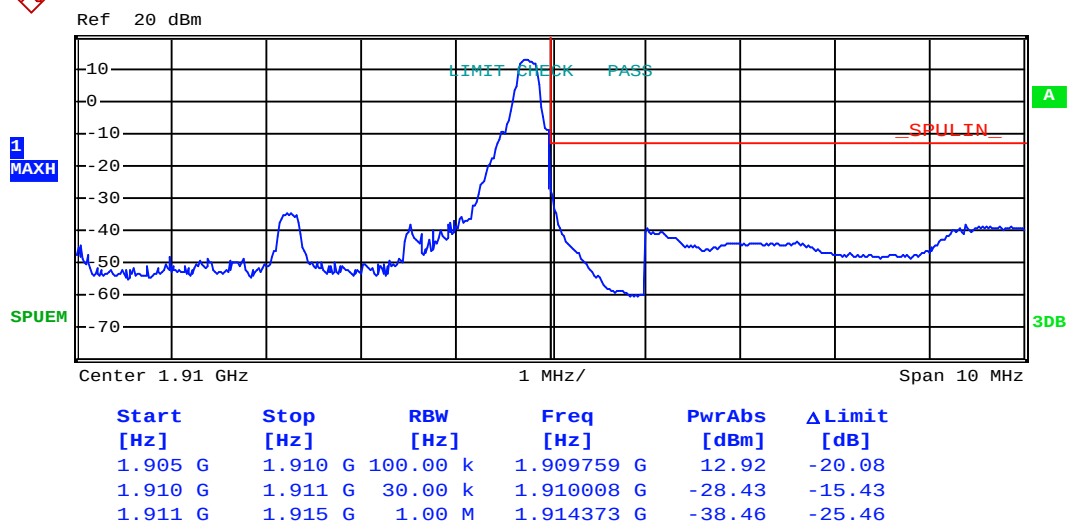
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 14)



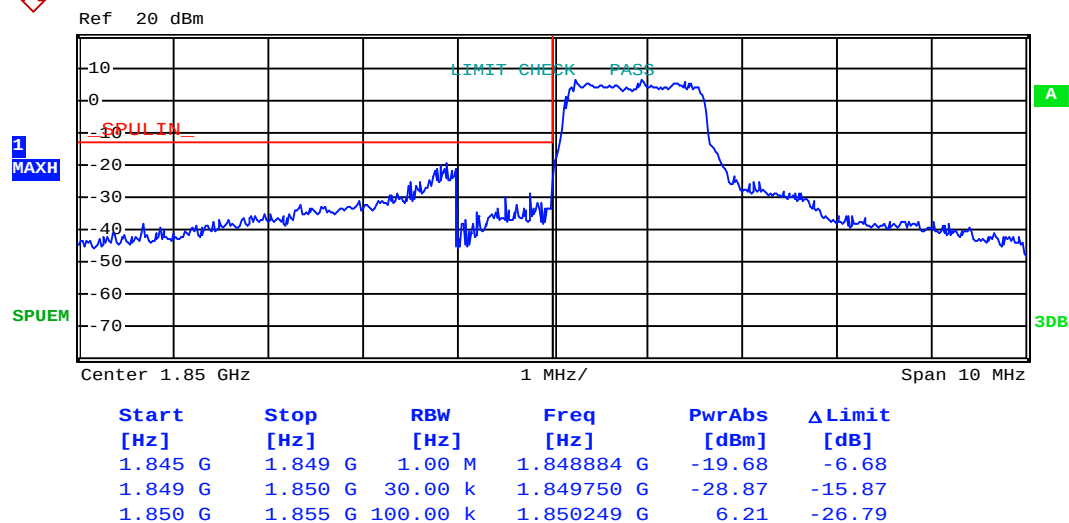
Lowest channel



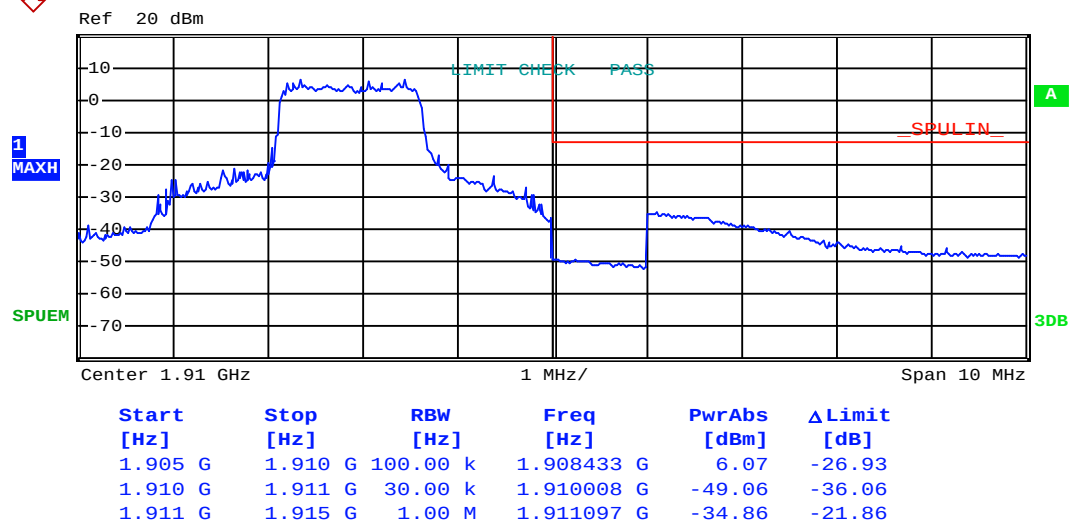
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 8 & RB Offset 0)

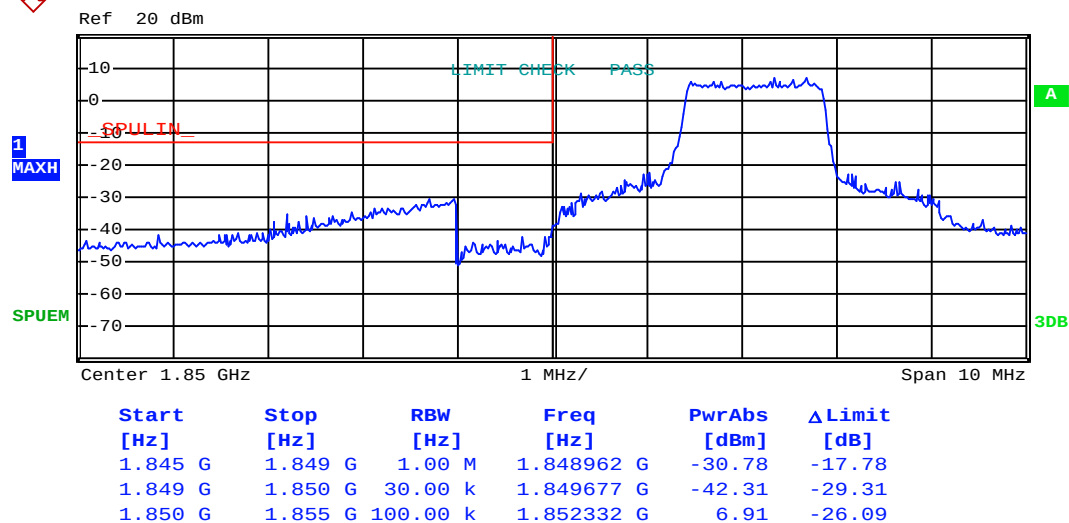


Lowest channel

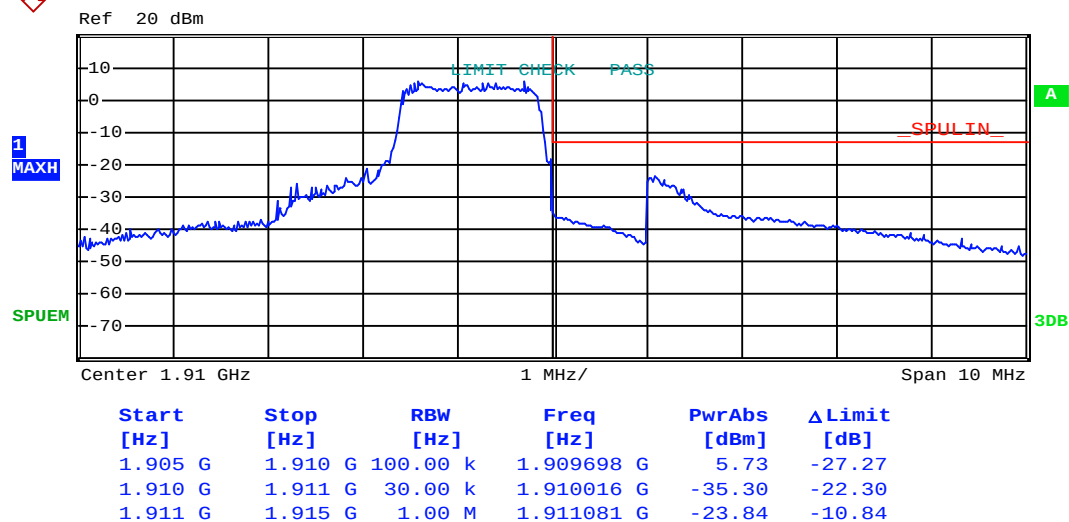


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 8 & RB Offset 7)
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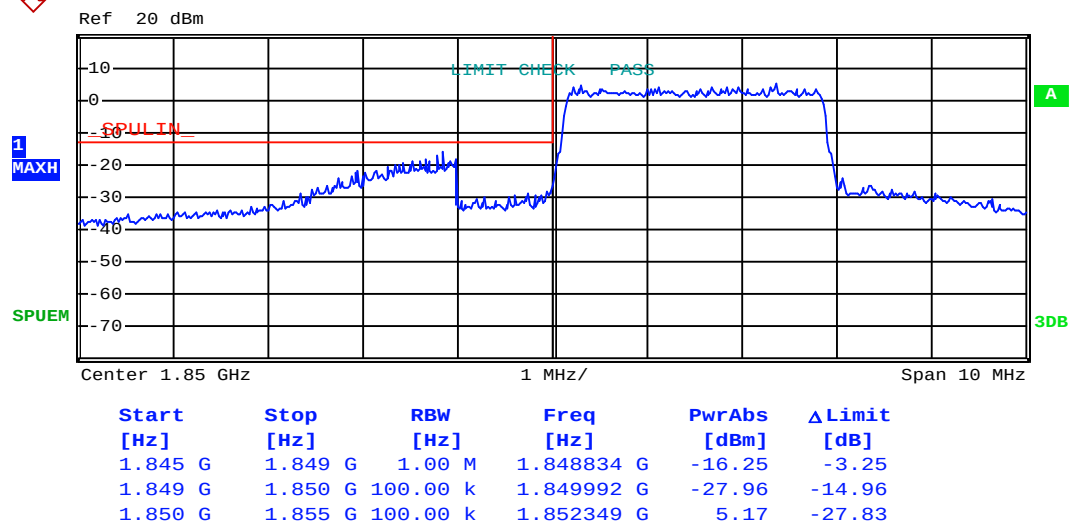


Lowest channel

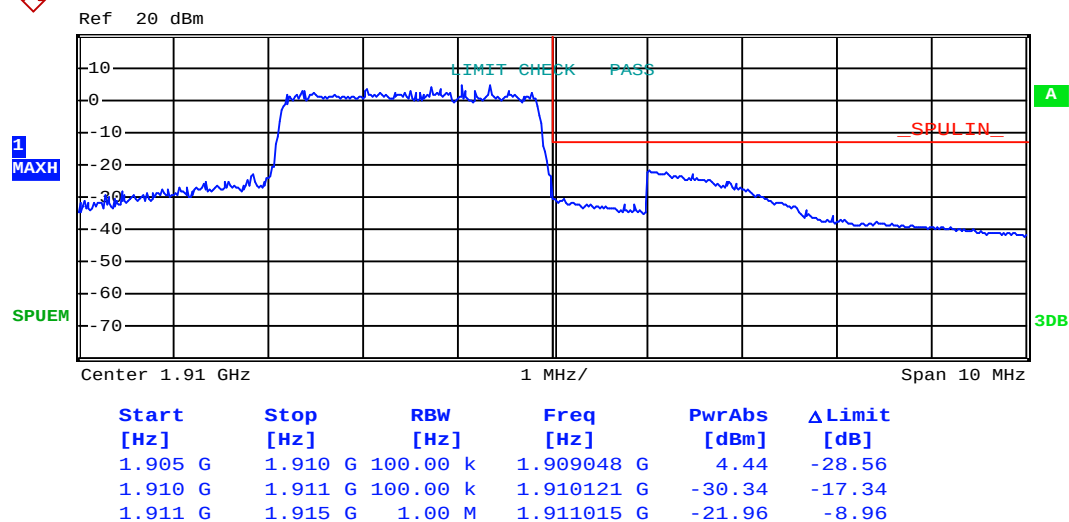


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 15 & RB Offset 0)
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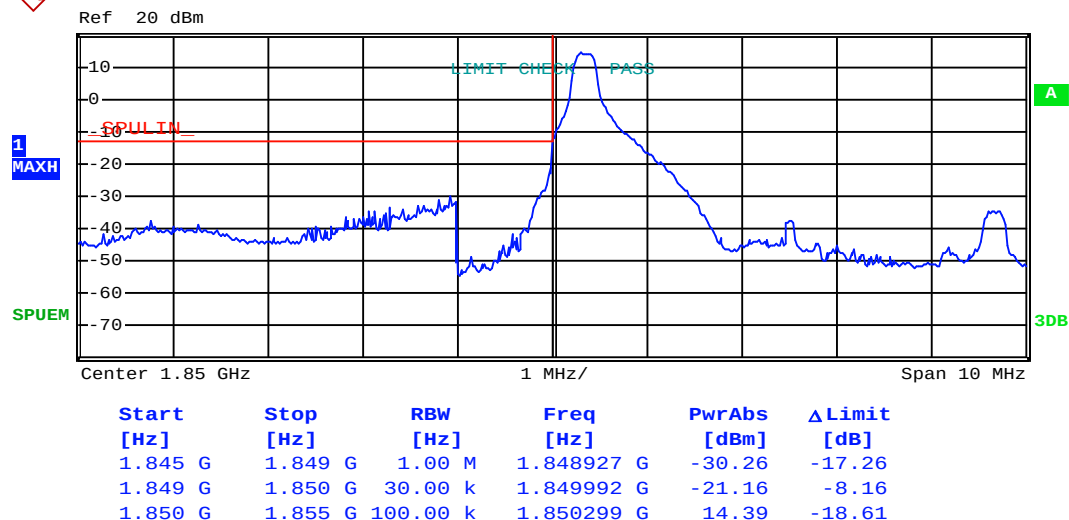
Lowest channel



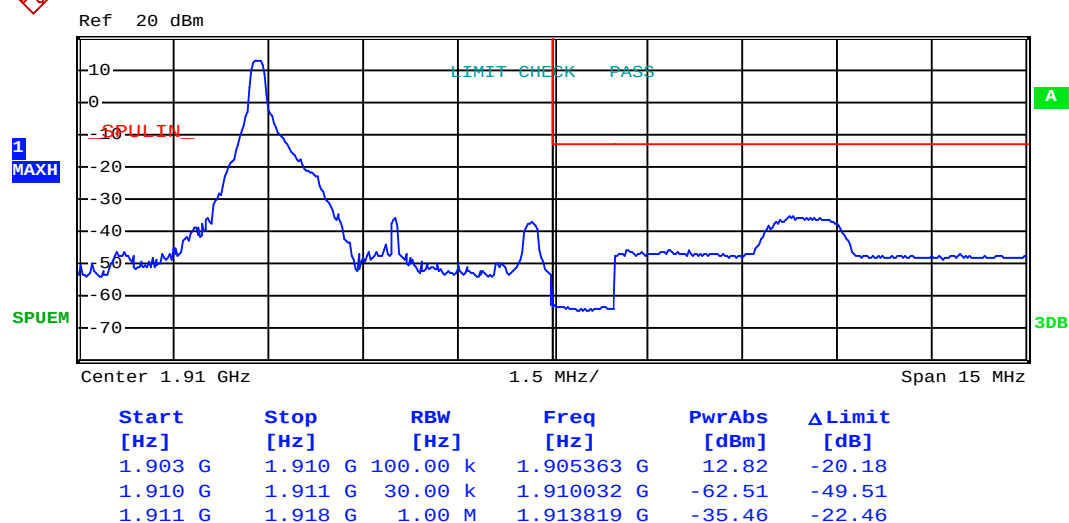
Highest channel

5MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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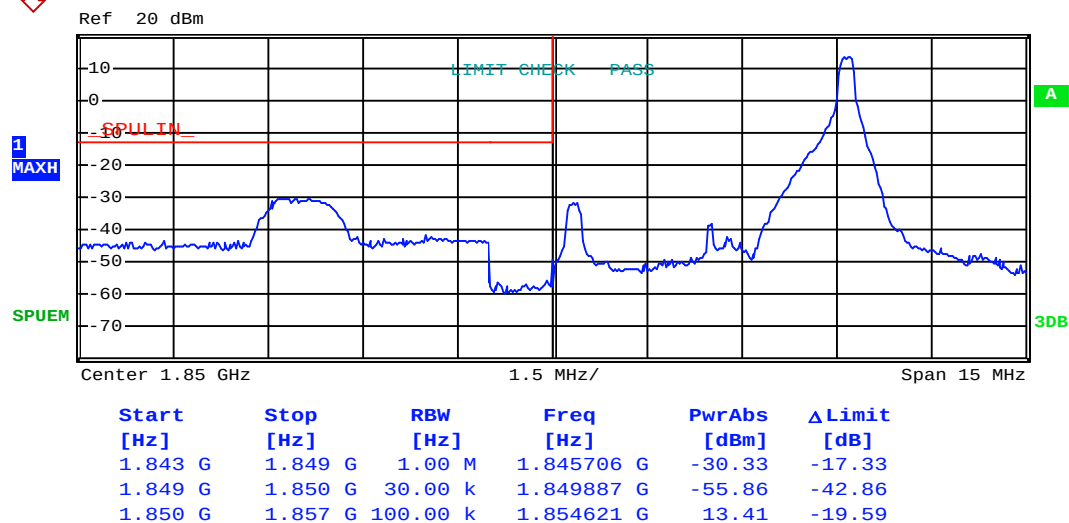


Lowest channel

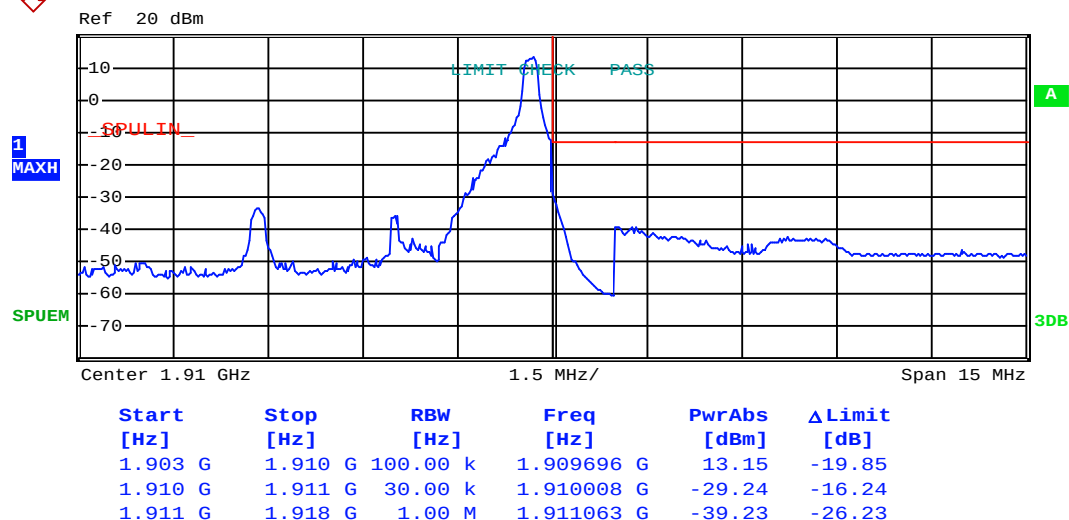


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 24)
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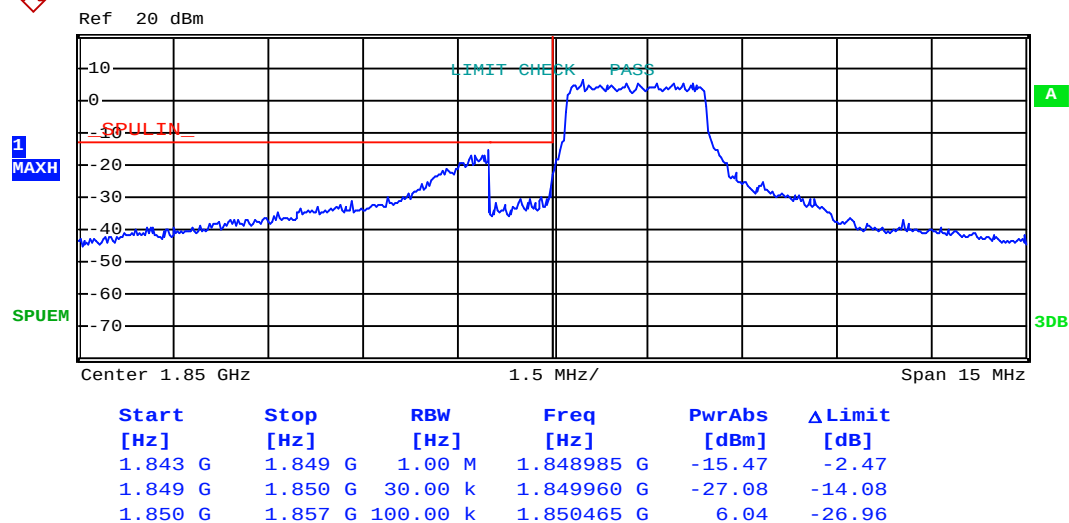
Lowest channel



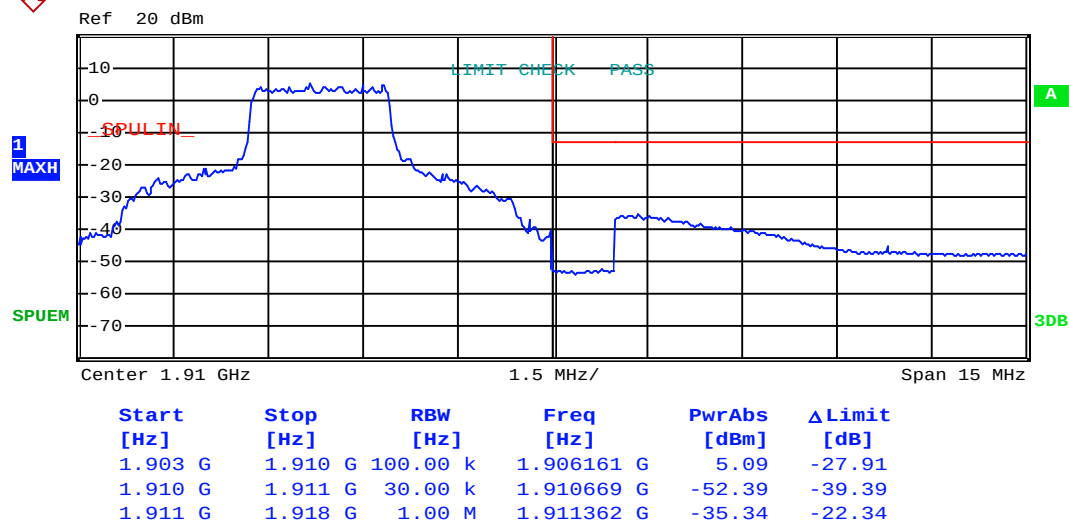
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 12 & RB Offset 0)



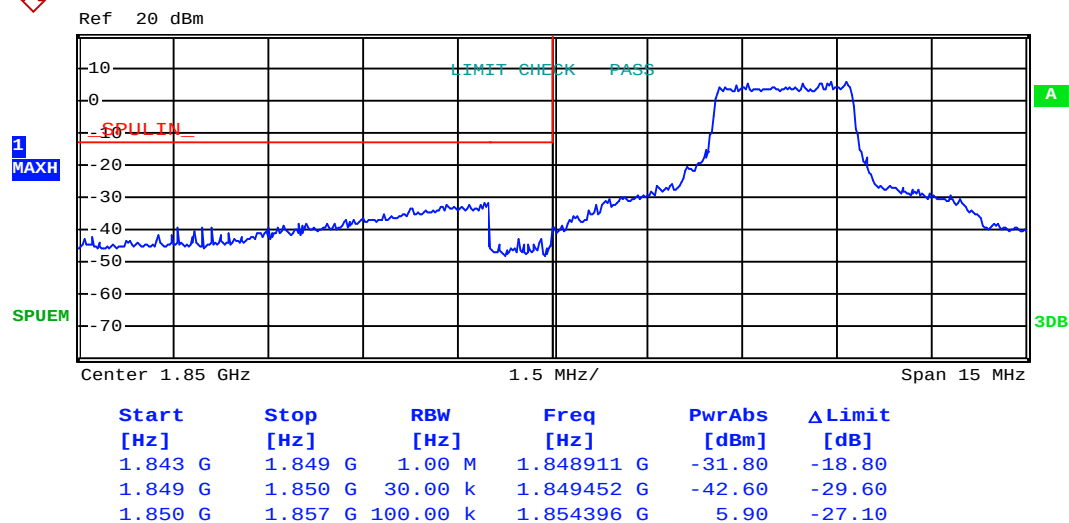
Lowest channel



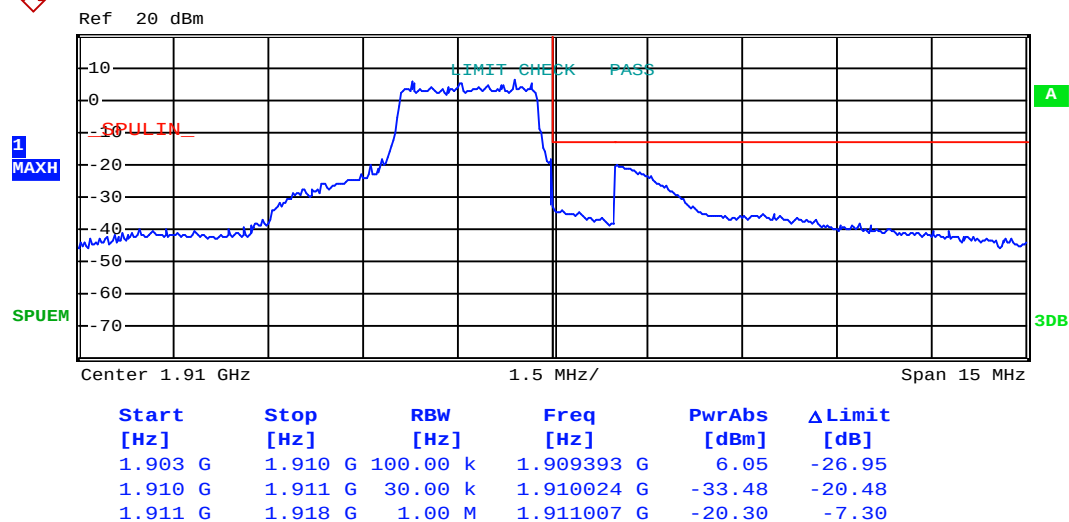
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 12 & RB Offset 11)



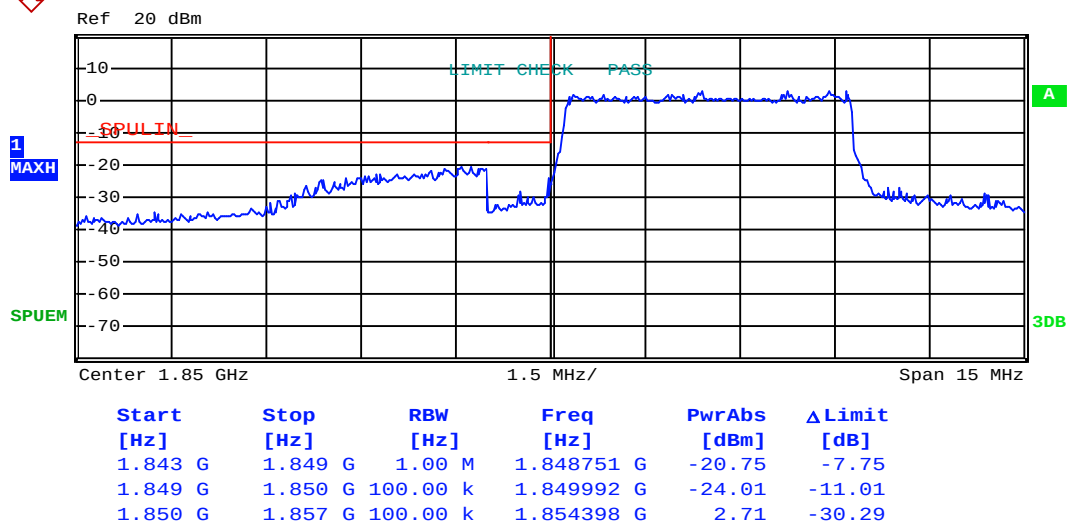
Lowest channel



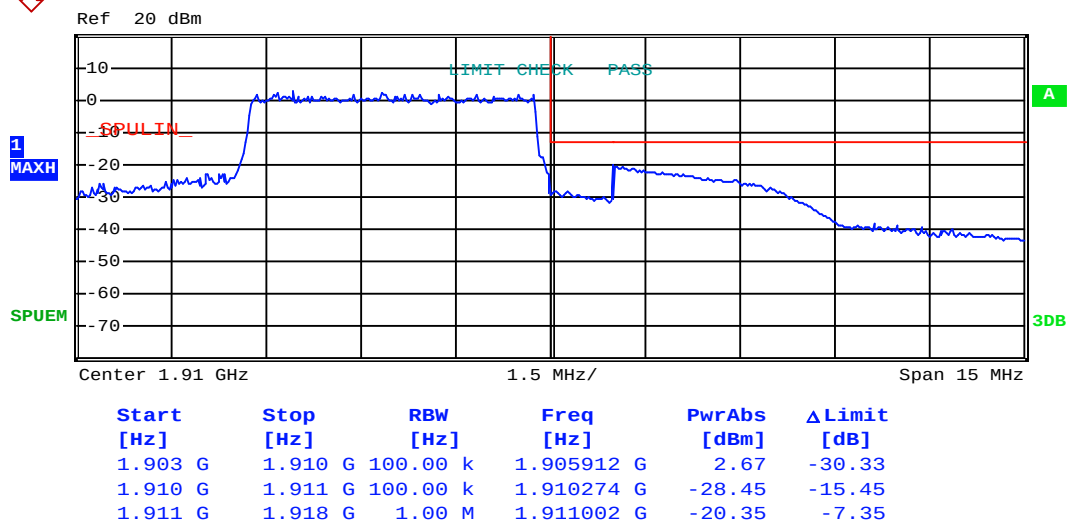
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 25 & RB Offset 0)

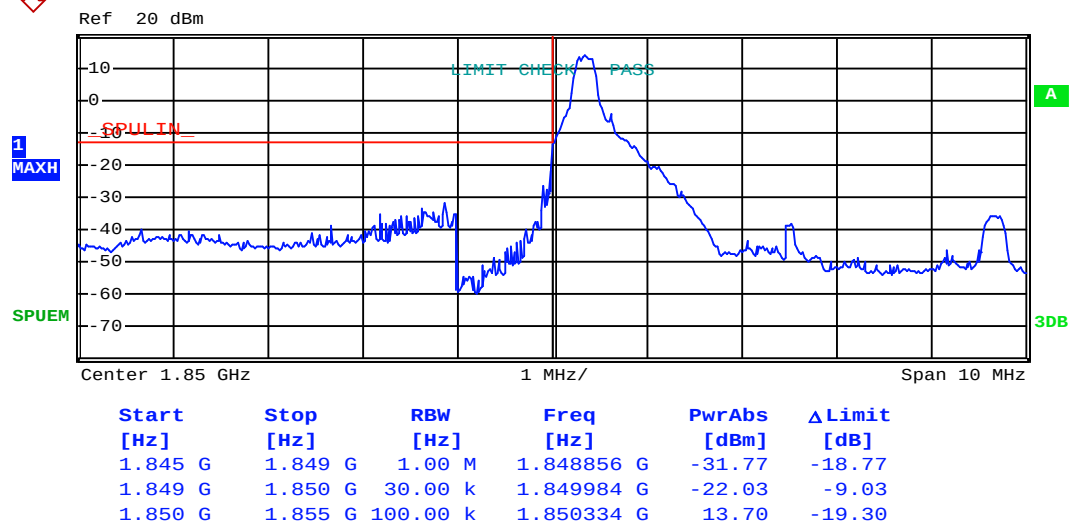


Lowest channel

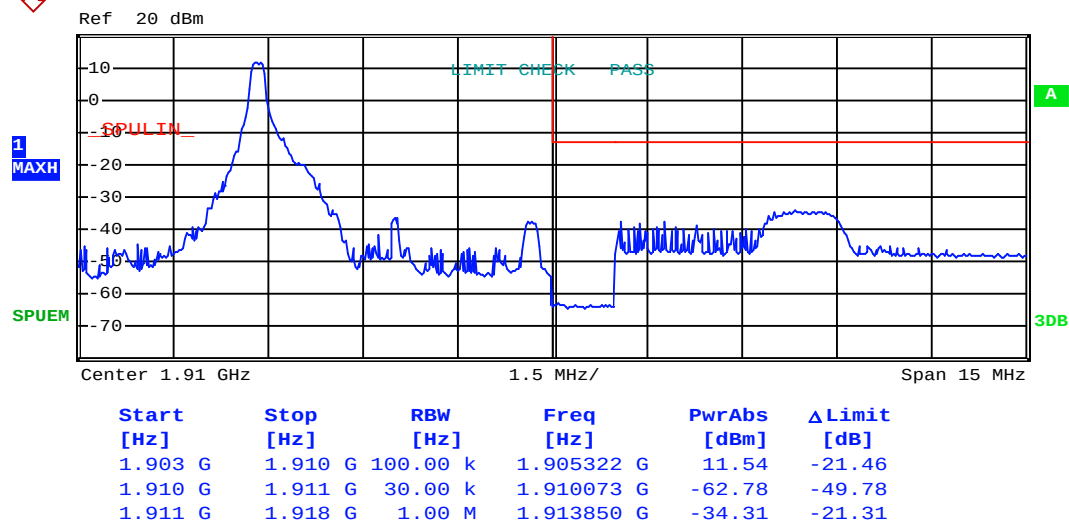


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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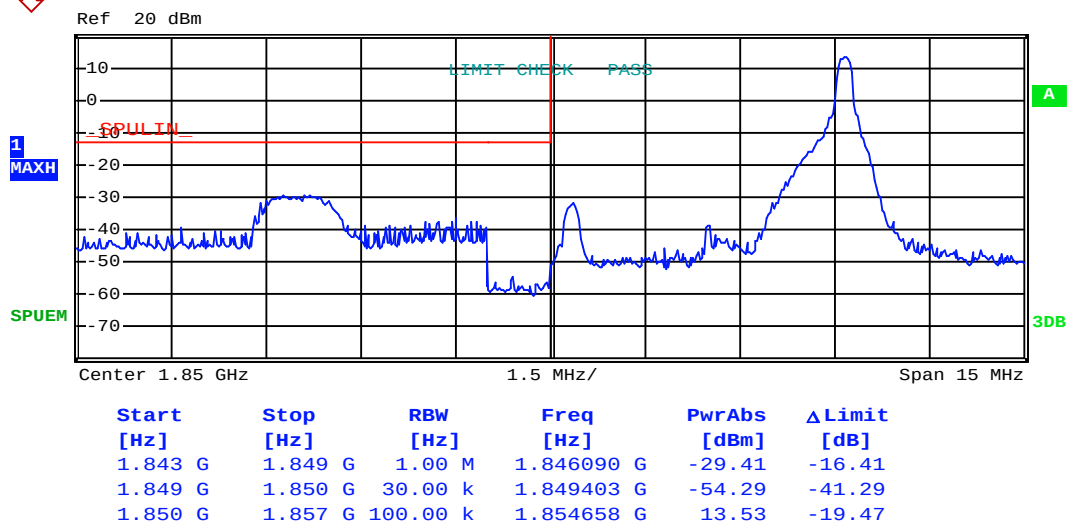
Lowest channel



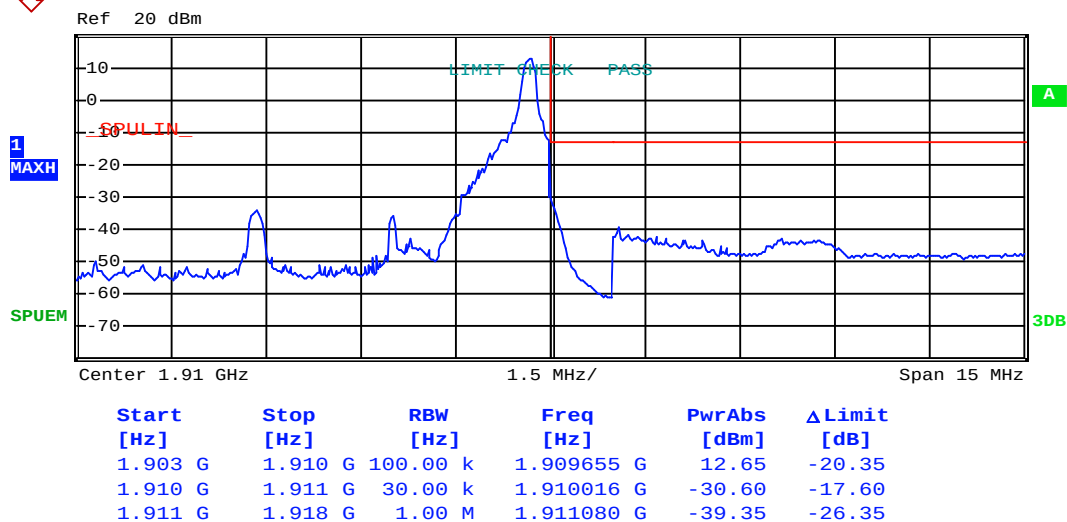
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 24)

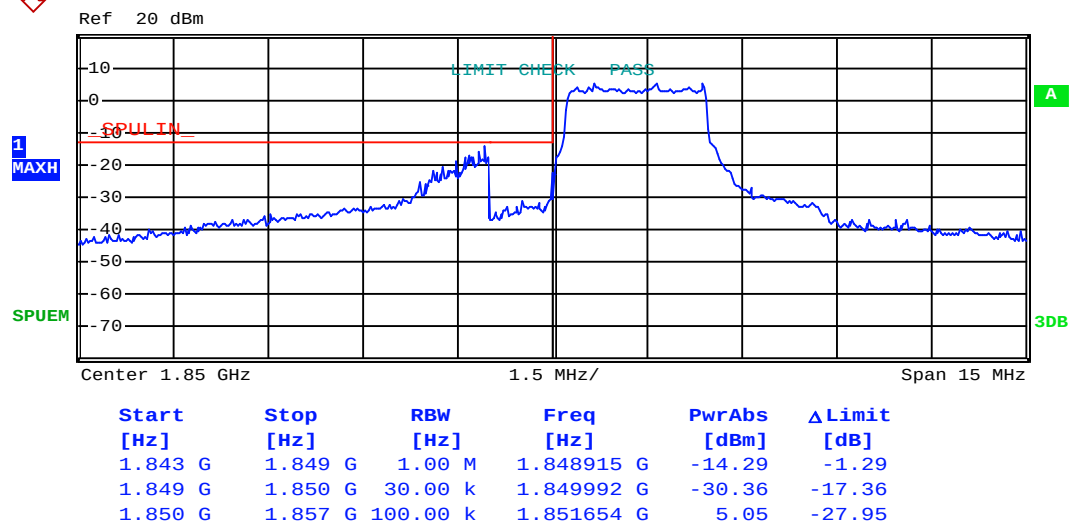


Lowest channel

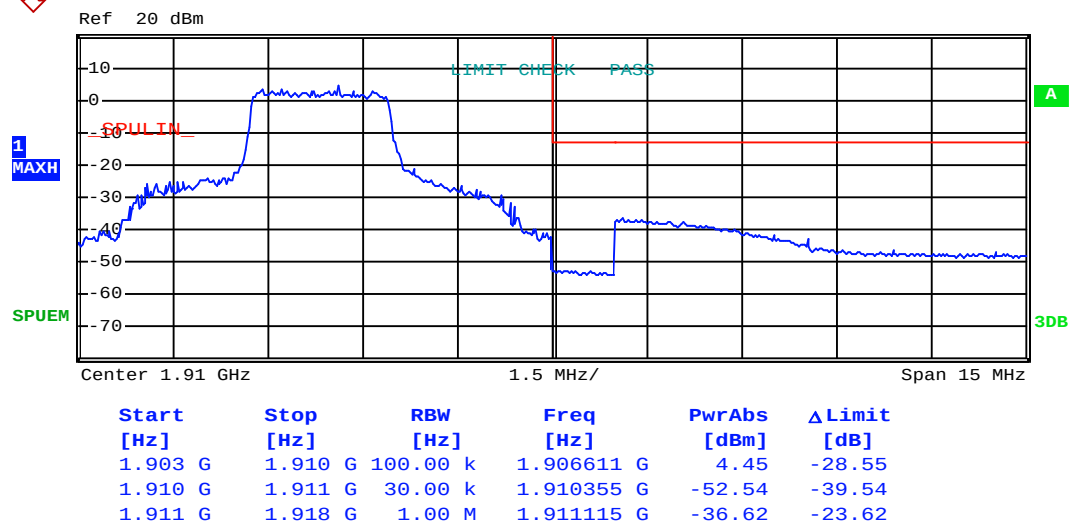


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 12 & RB Offset 0)
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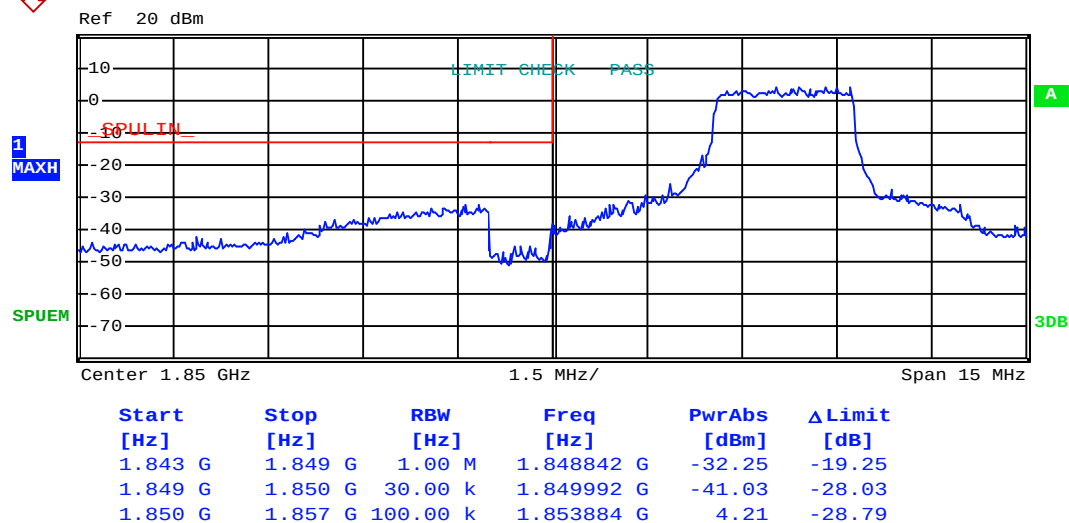


Lowest channel

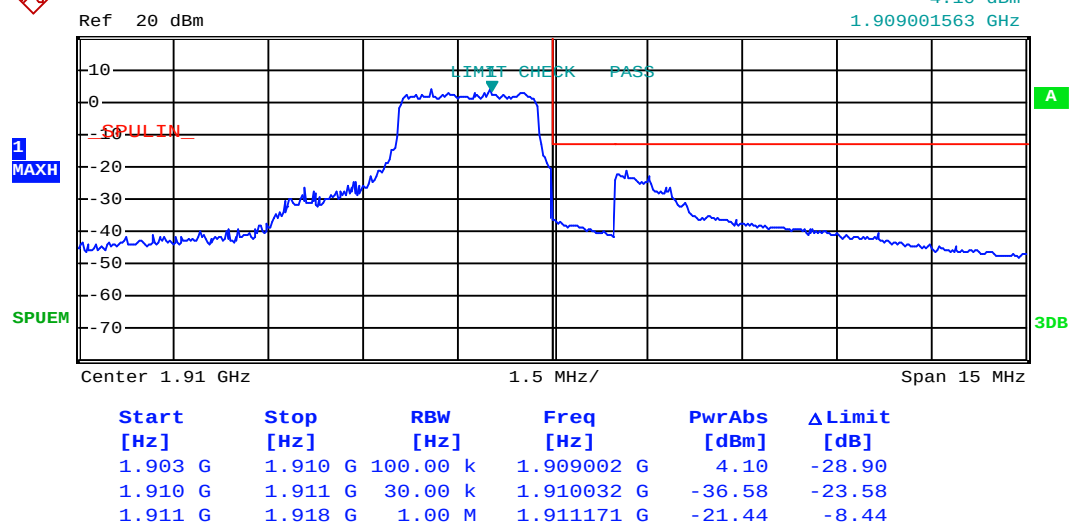


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 12 & RB Offset 11)
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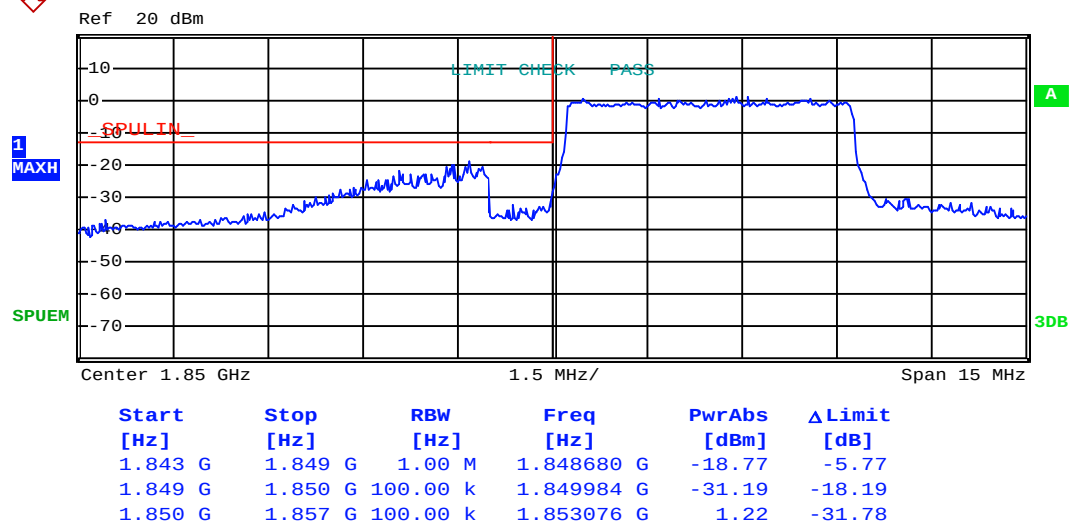


Lowest channel

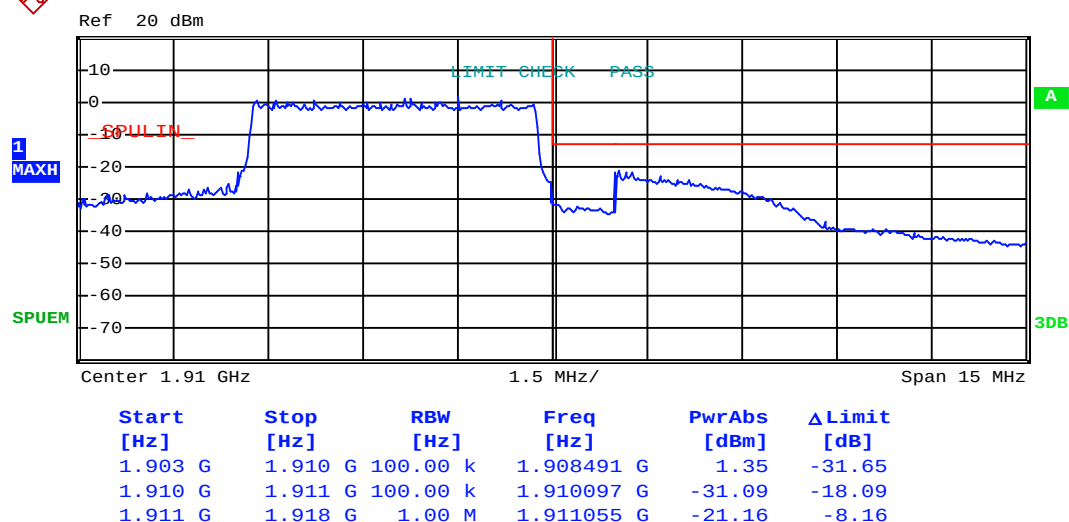


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 25 & RB Offset 0)
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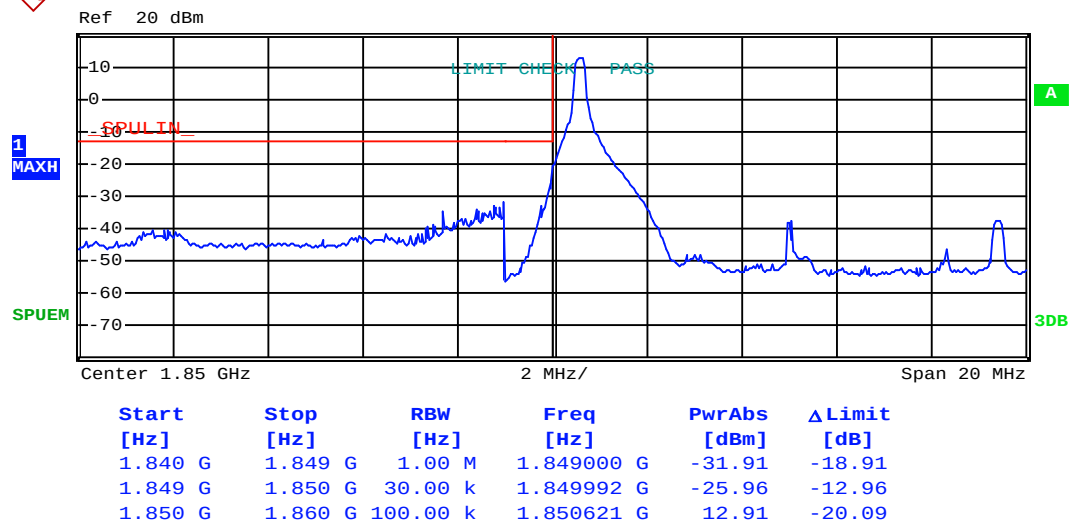
Lowest channel



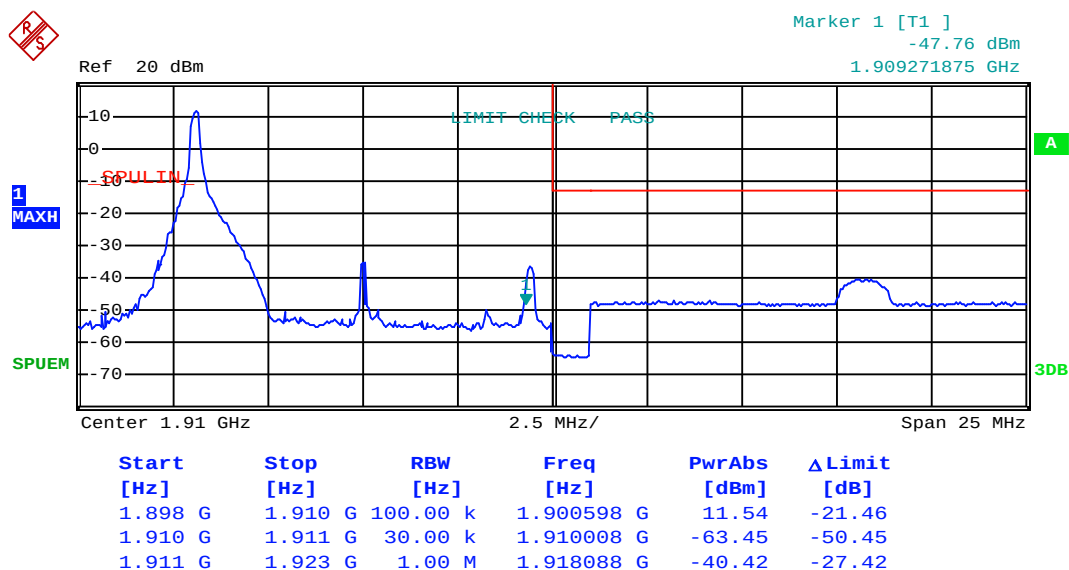
Highest channel

10MHz:

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 0)
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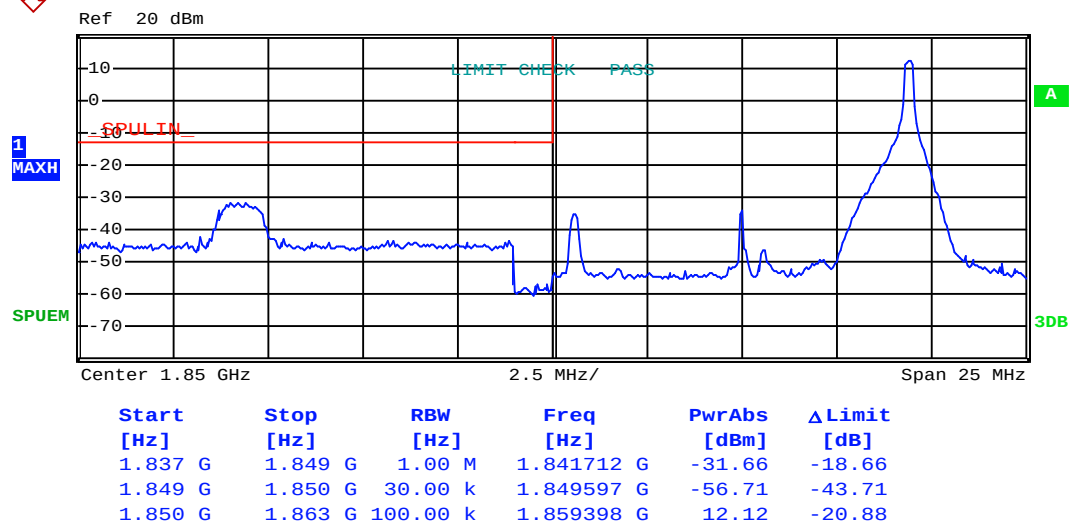


Lowest channel

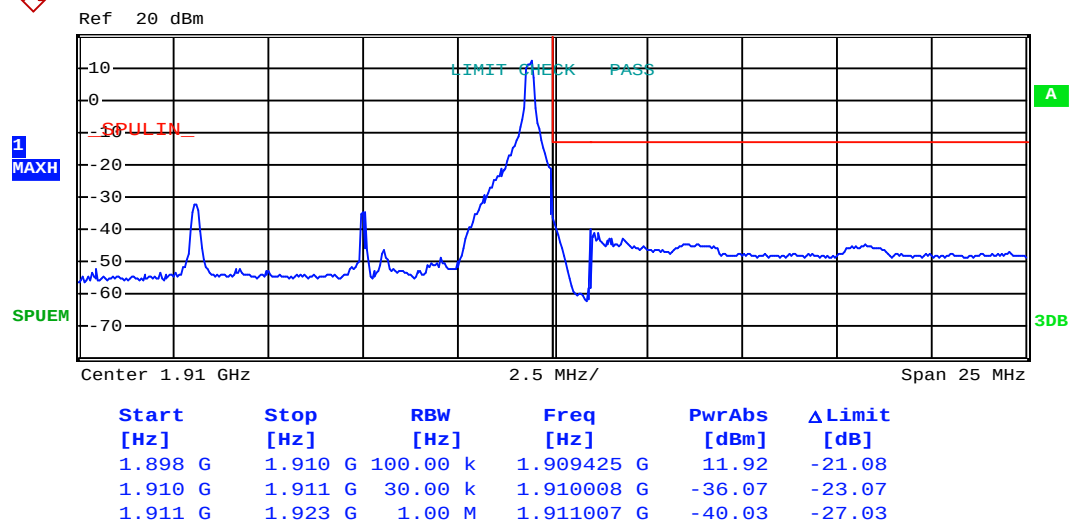


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 49)
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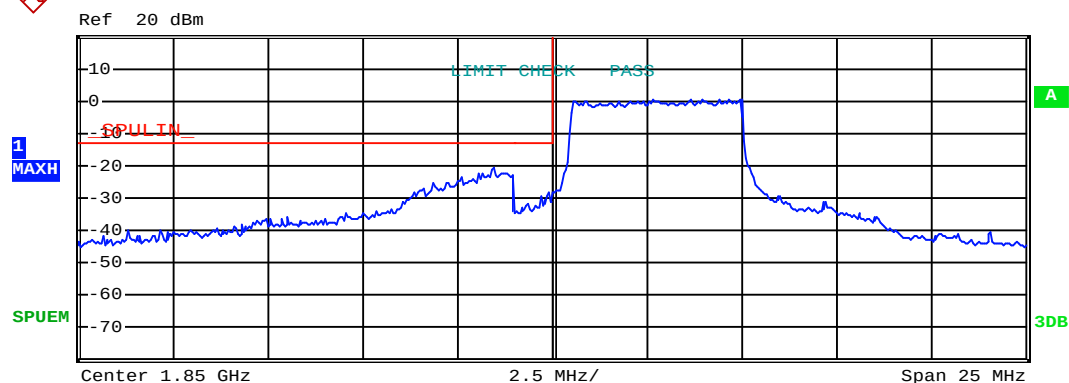
Lowest channel



Highest channel

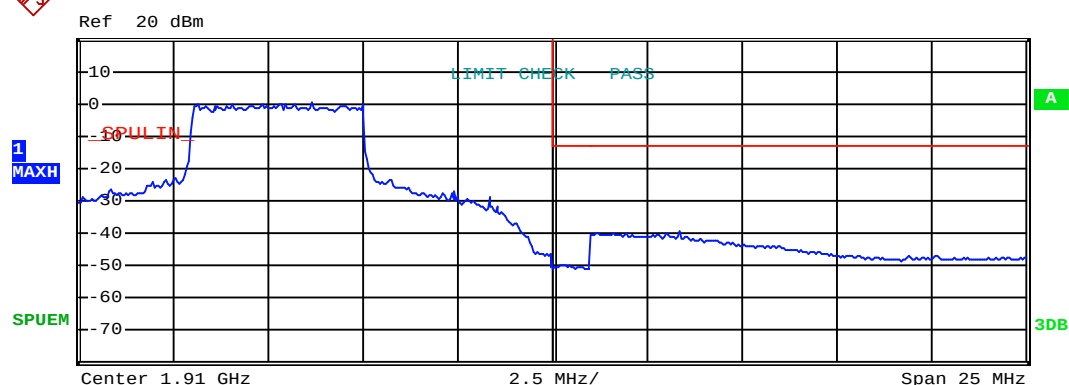
Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 0)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.837 G	1.849 G	1.00 M	1.848434 G	-20.92	-7.92
1.849 G	1.850 G	100.00 k	1.849911 G	-28.10	-15.10
1.850 G	1.863 G	100.00 k	1.853641 G	0.51	-32.49

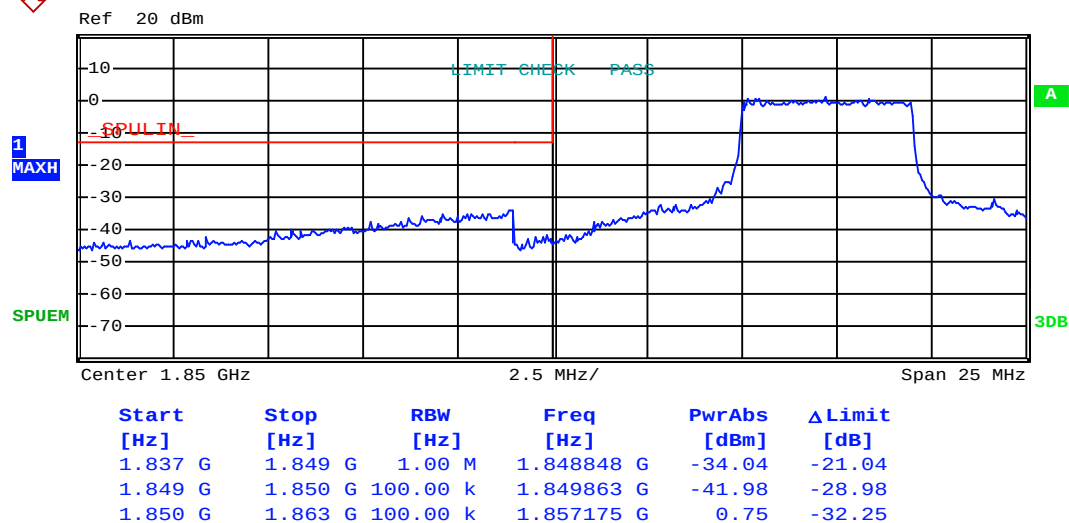
Lowest channel



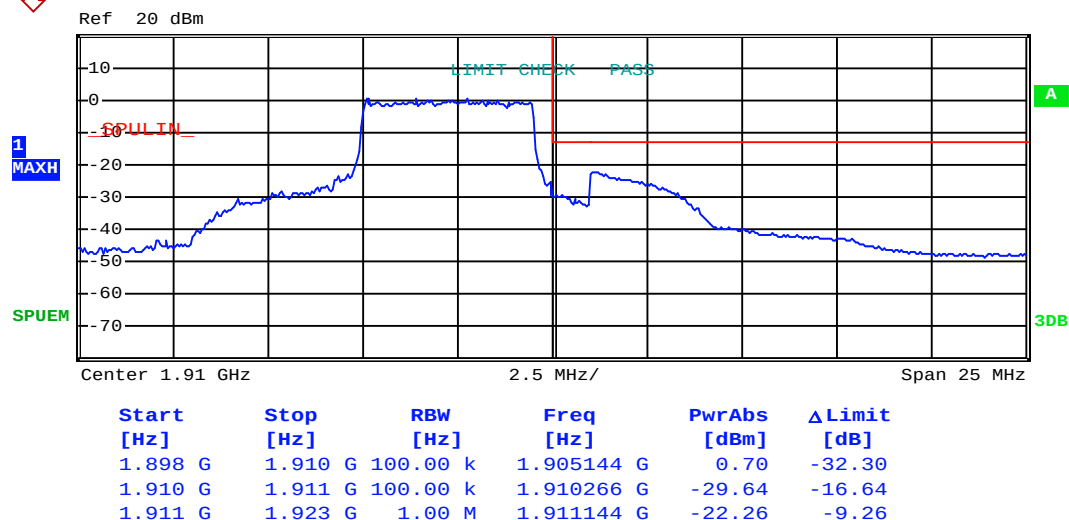
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.898 G	1.910 G	100.00 k	1.903650 G	0.13	-32.87
1.910 G	1.911 G	100.00 k	1.910315 G	-49.68	-36.68
1.911 G	1.923 G	1.00 M	1.913352 G	-39.58	-26.58

Highest channel

Test Mode:	LTE band 4(QPSK RB Size 25 & RB Offset 24)
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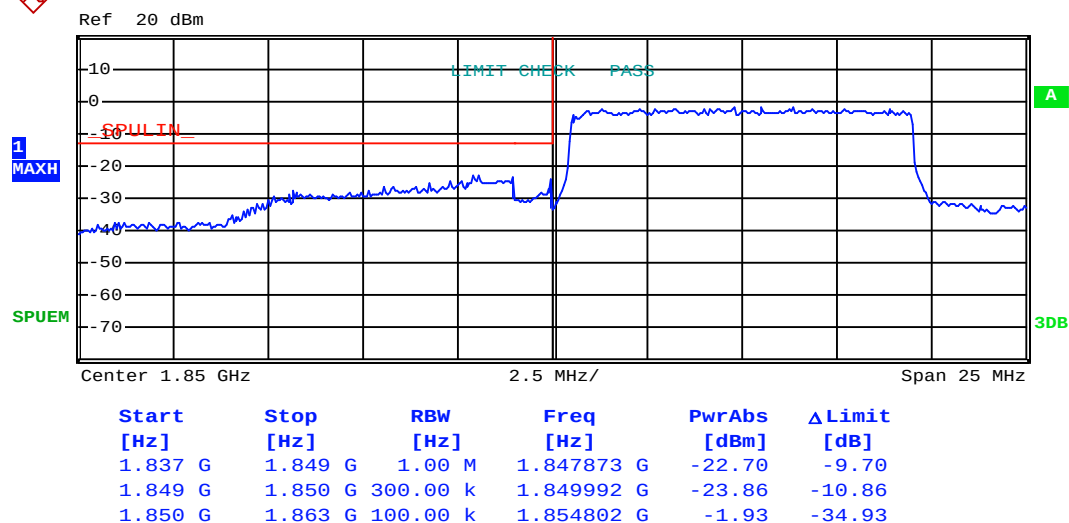
Lowest channel



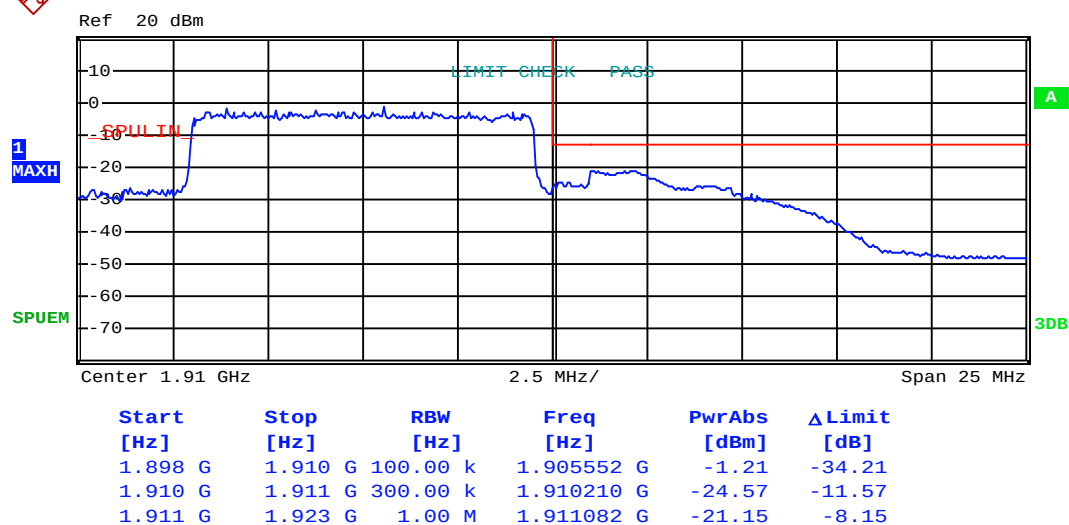
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 50 & RB Offset 0)

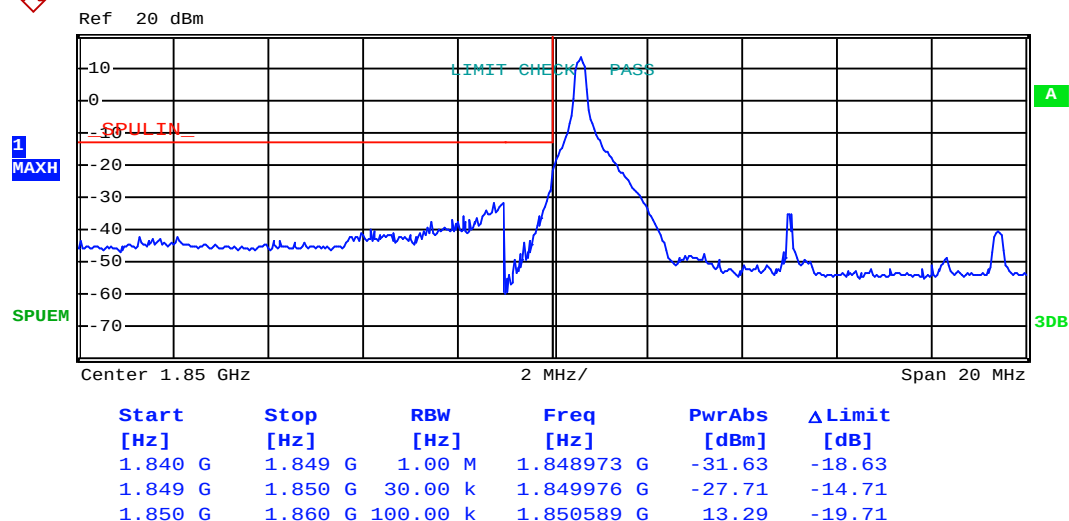


Lowest channel

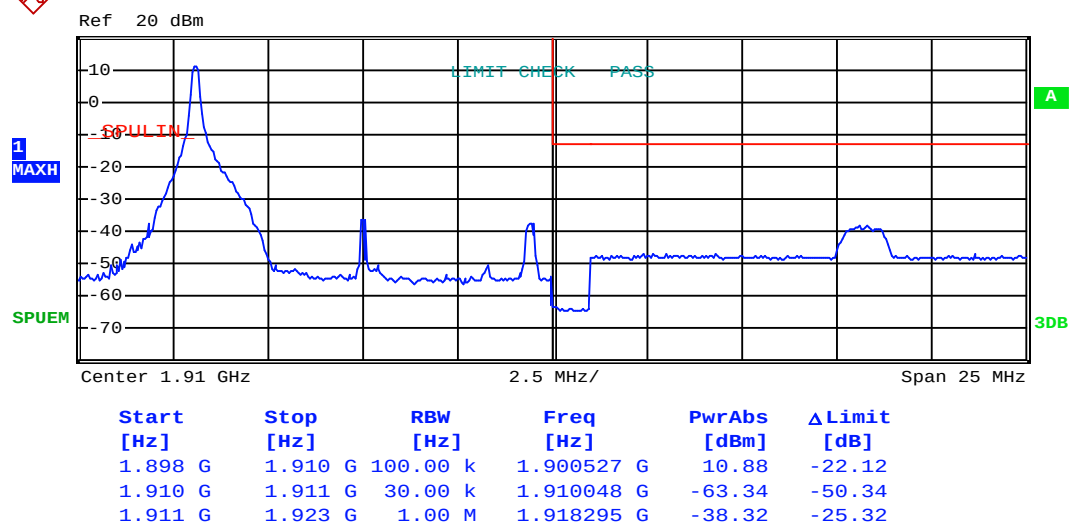


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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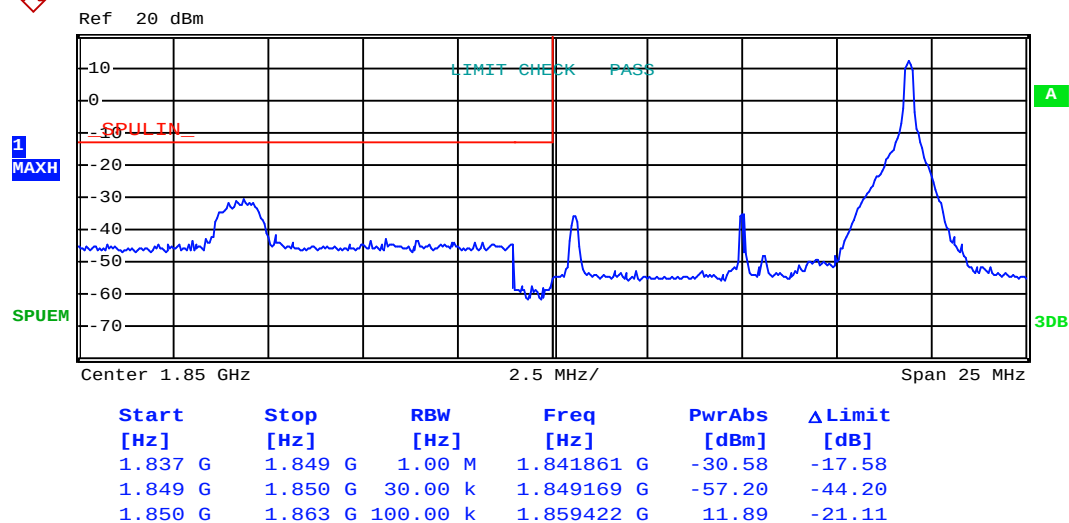


Lowest channel

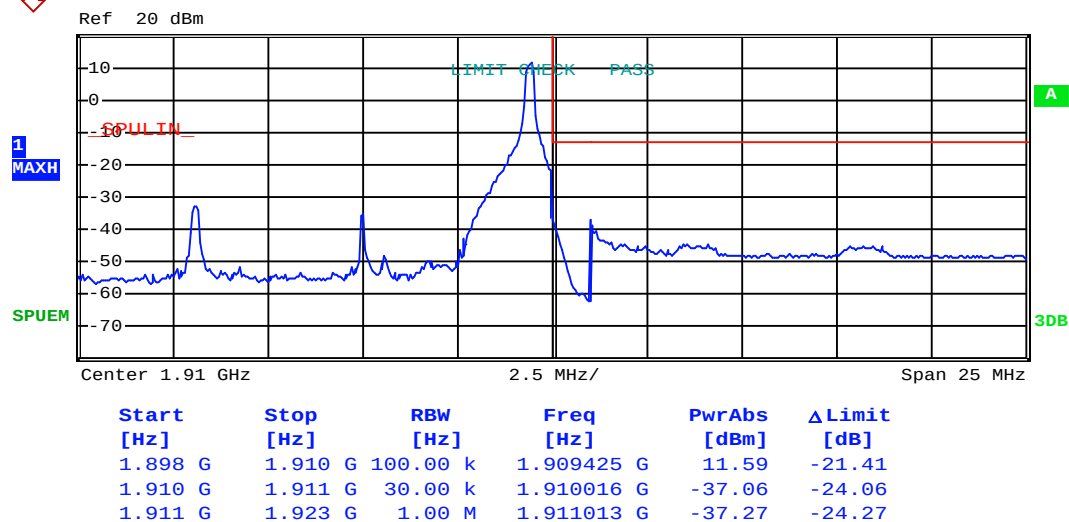


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 49)
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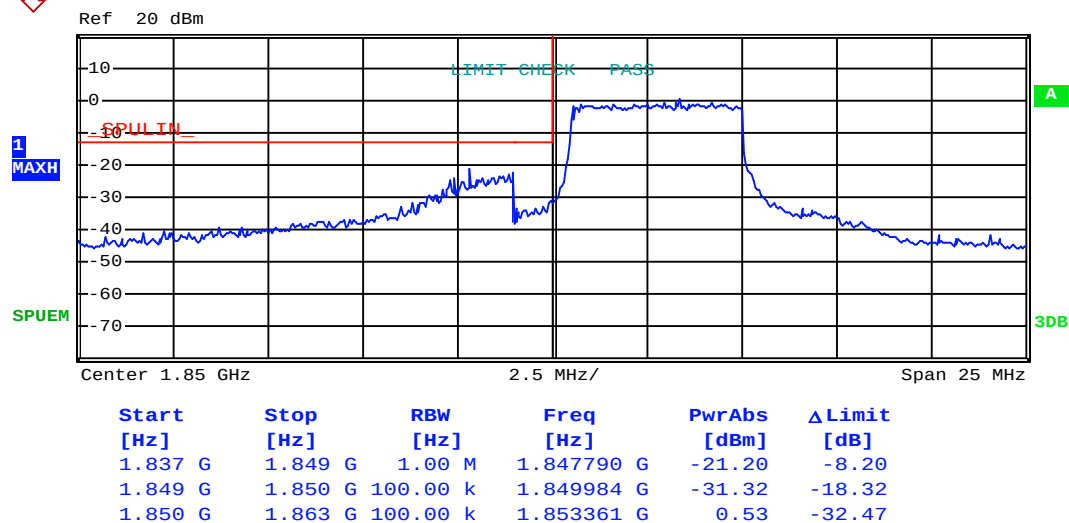


Lowest channel

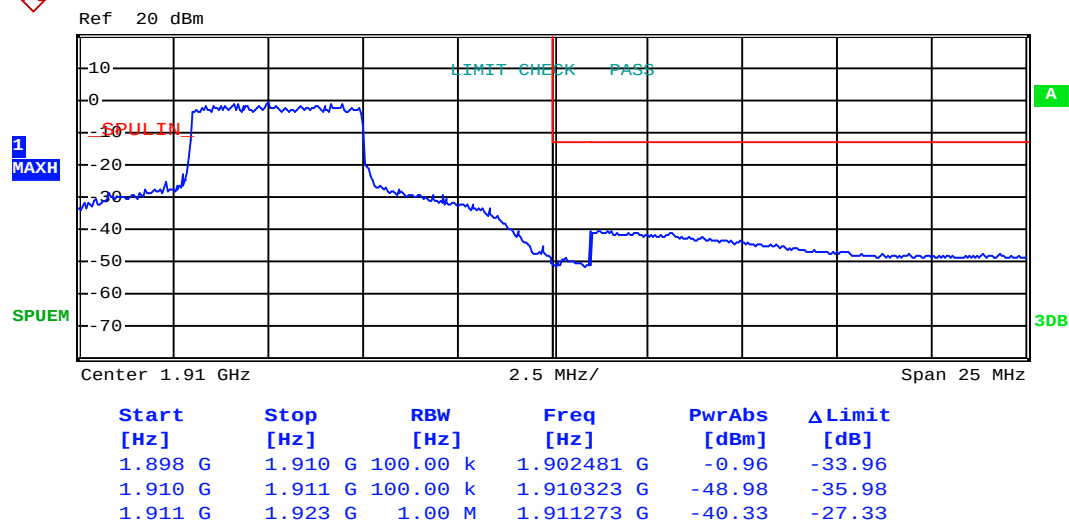


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 25 & RB Offset 0)
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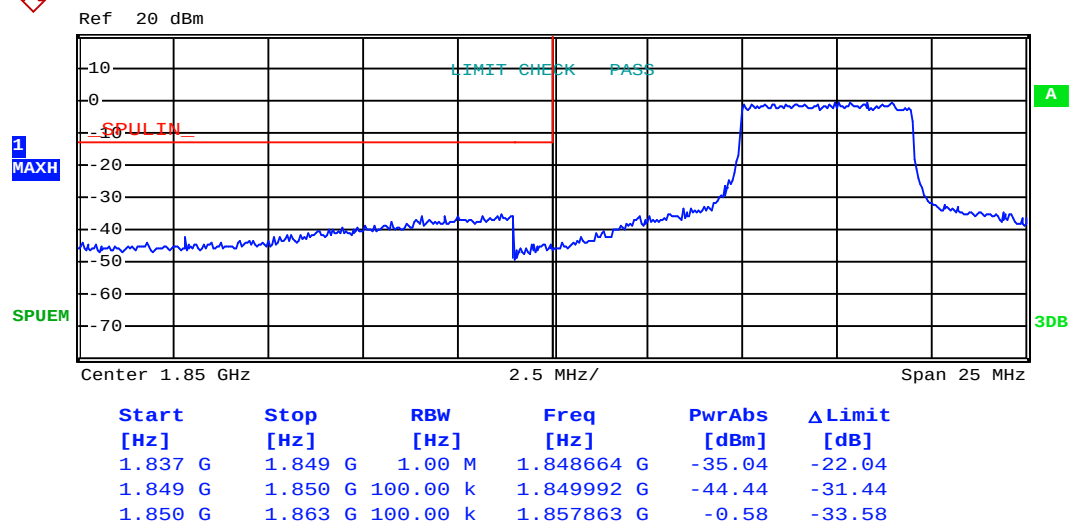


Lowest channel

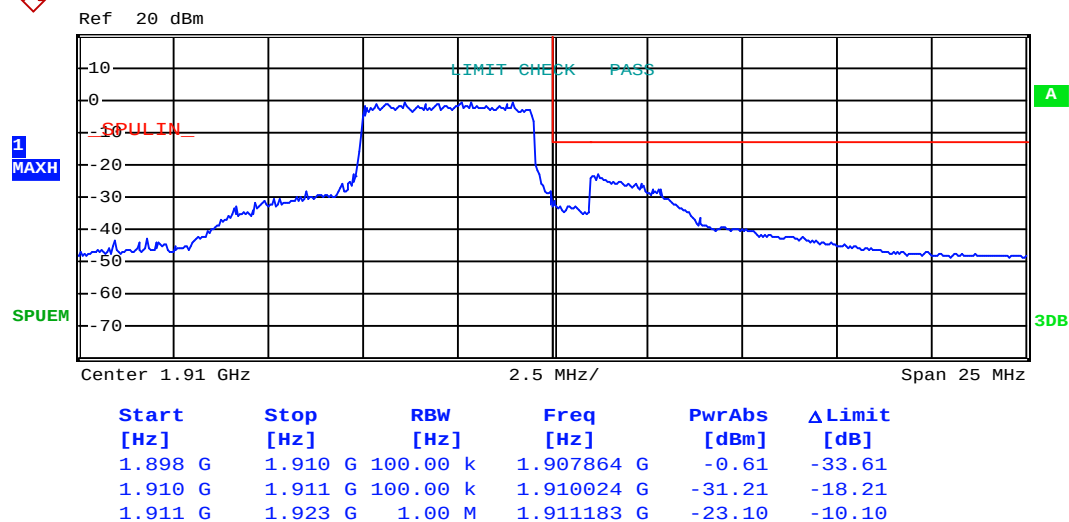


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 25 & RB Offset 24)
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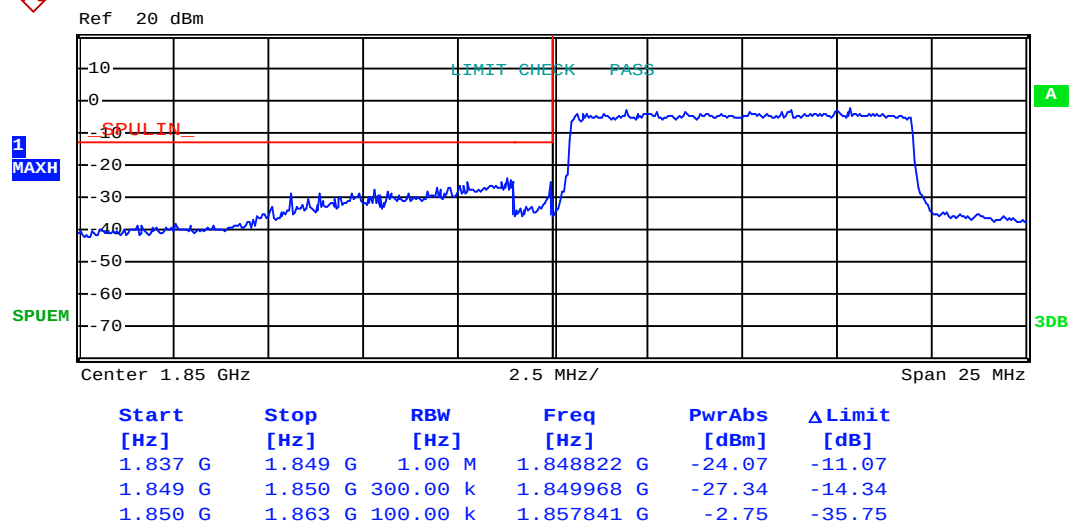


Lowest channel

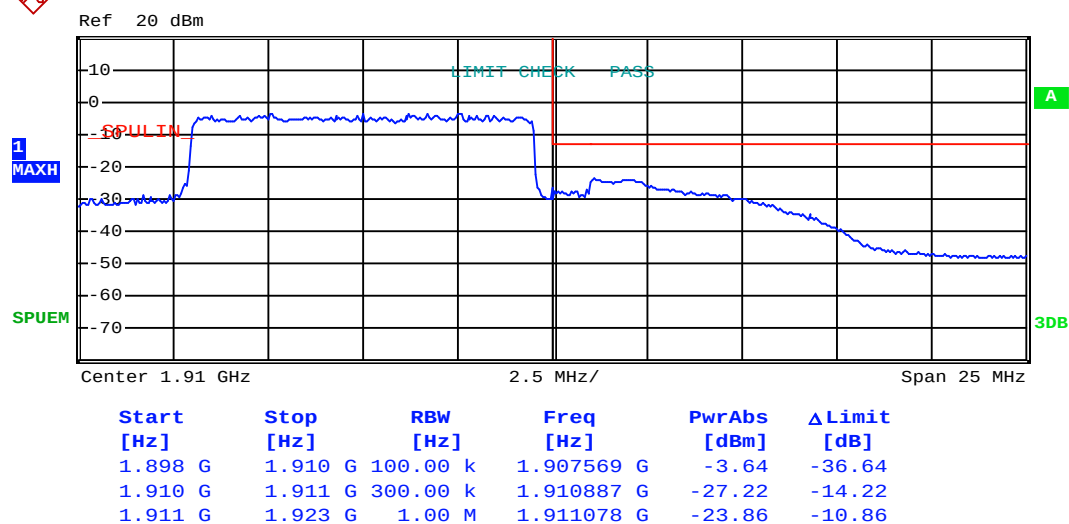


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 50 & RB Offset 0)
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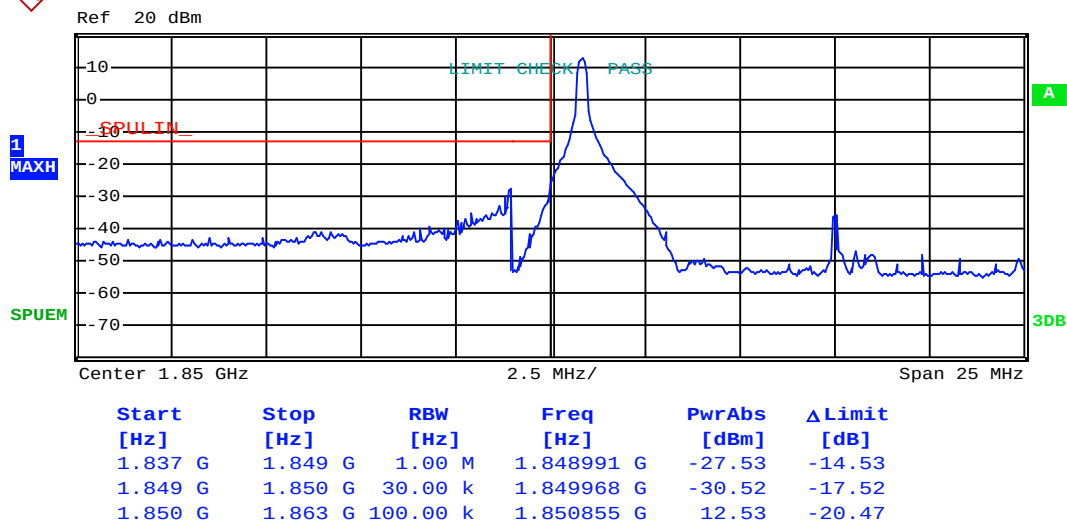
Lowest channel



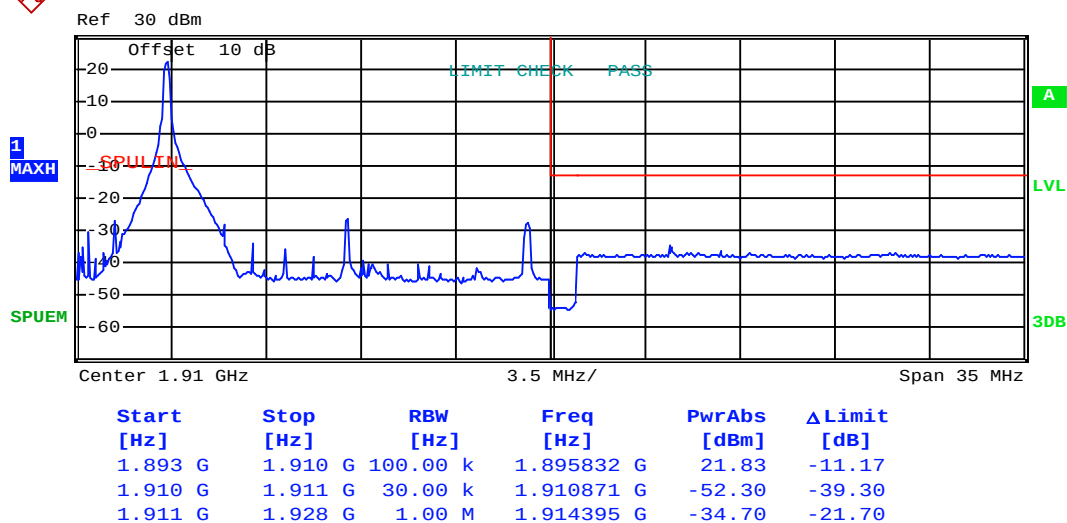
Highest channel

15MHz:

Test Mode:	LTE band 2(QPSKRB Size 1 & RB Offset 0)
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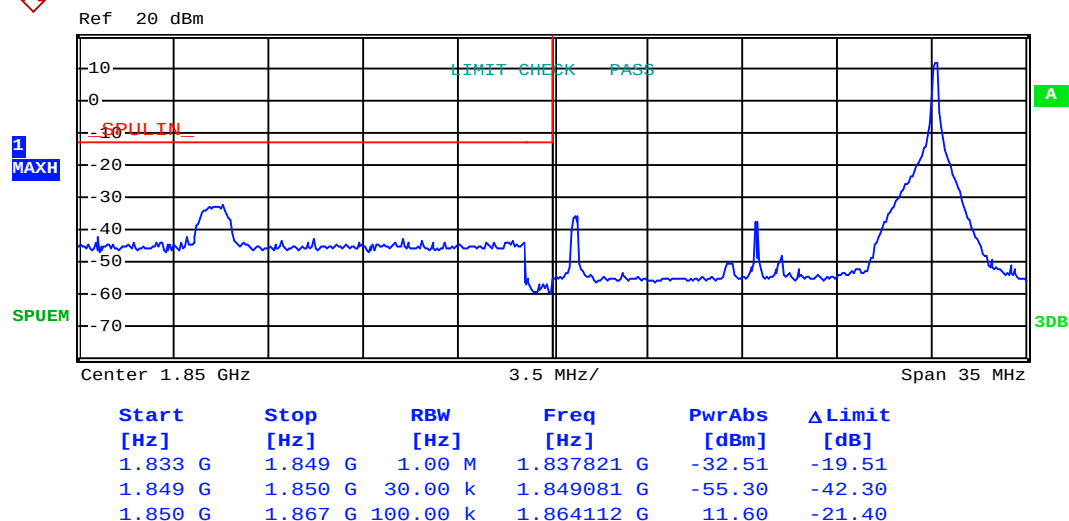


Lowest channel

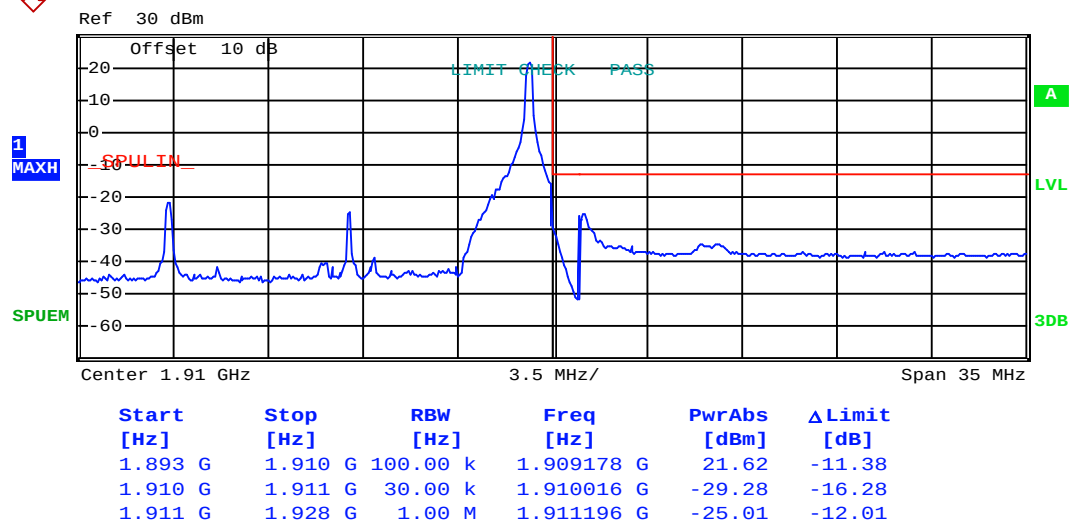


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 74)
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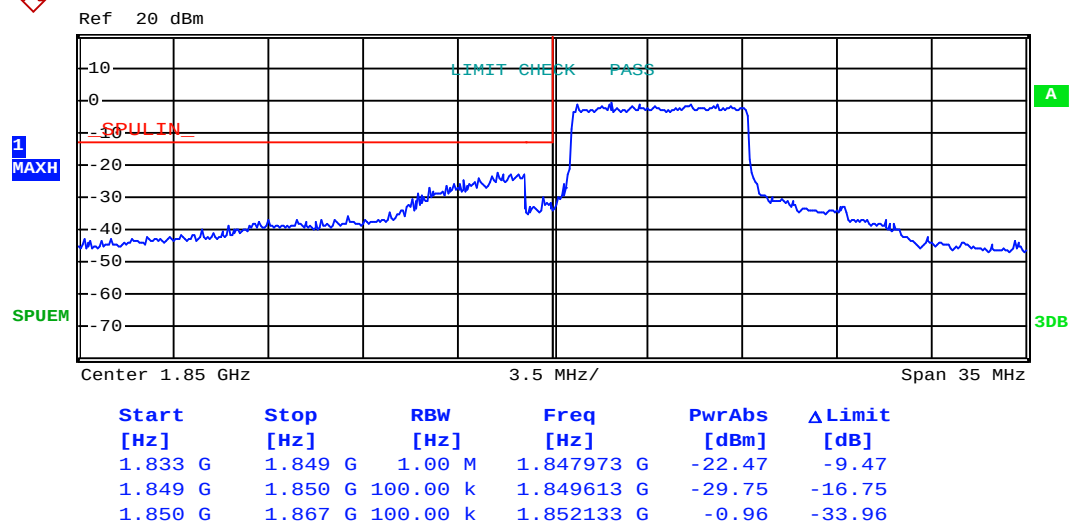


Lowest channel

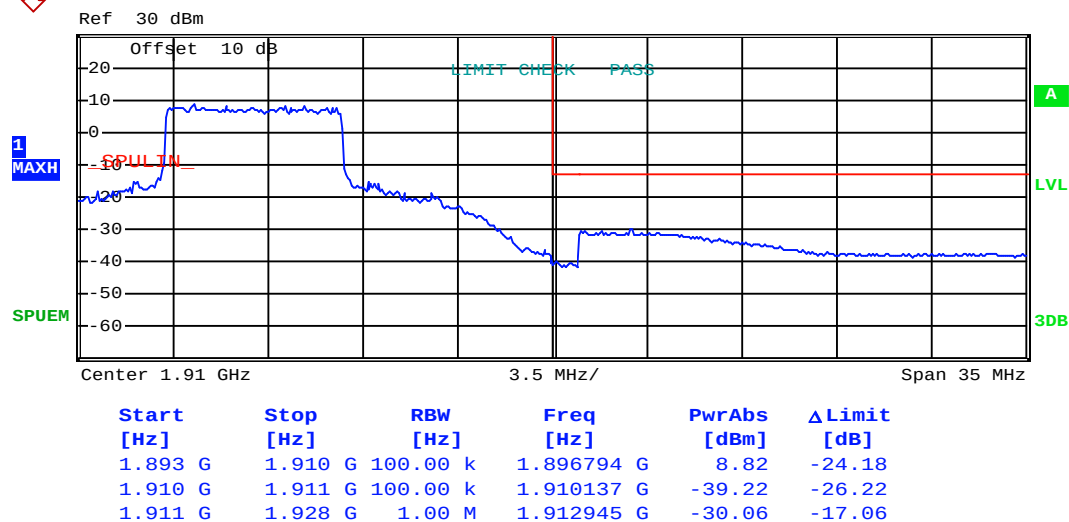


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 36 & RB Offset 0)
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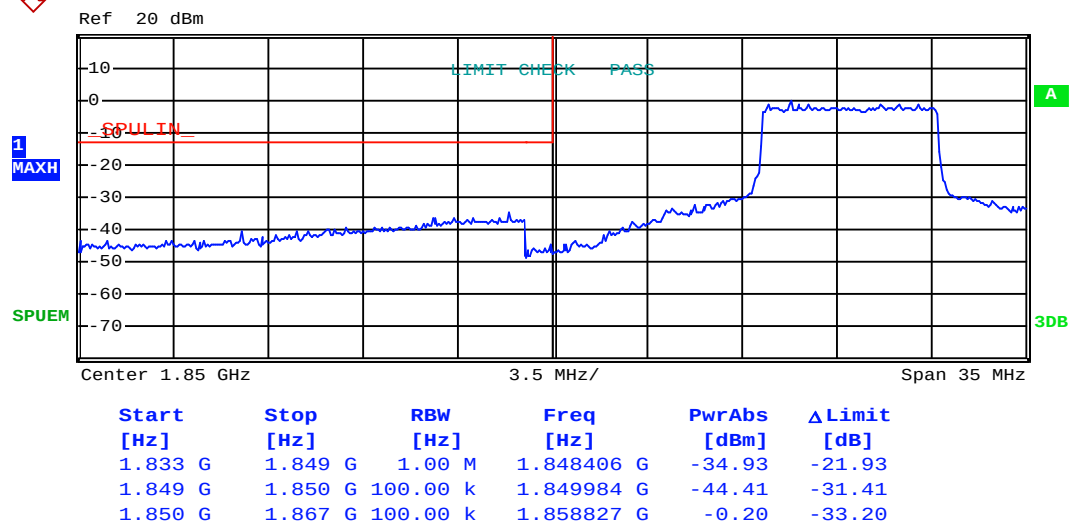


Lowest channel

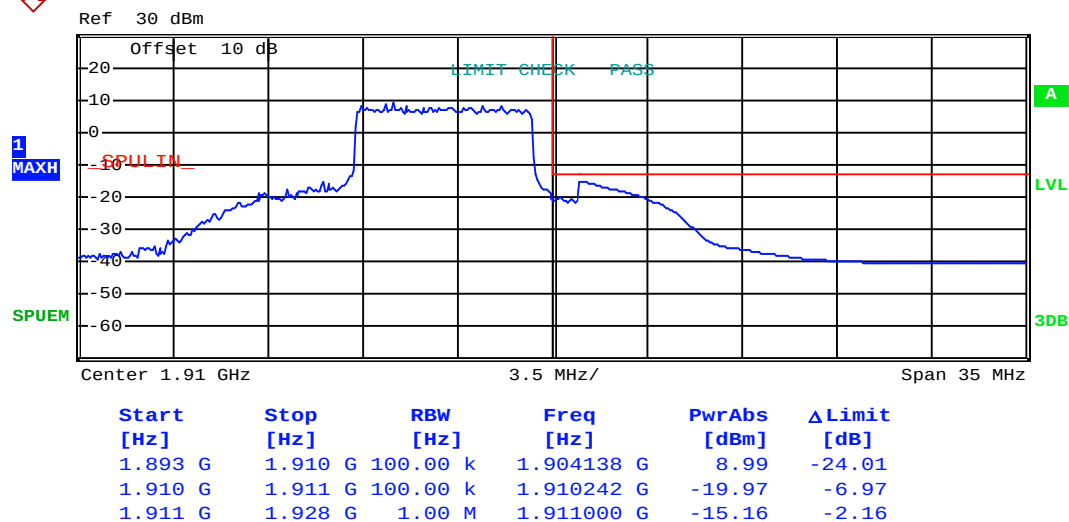


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 36 & RB Offset 37)
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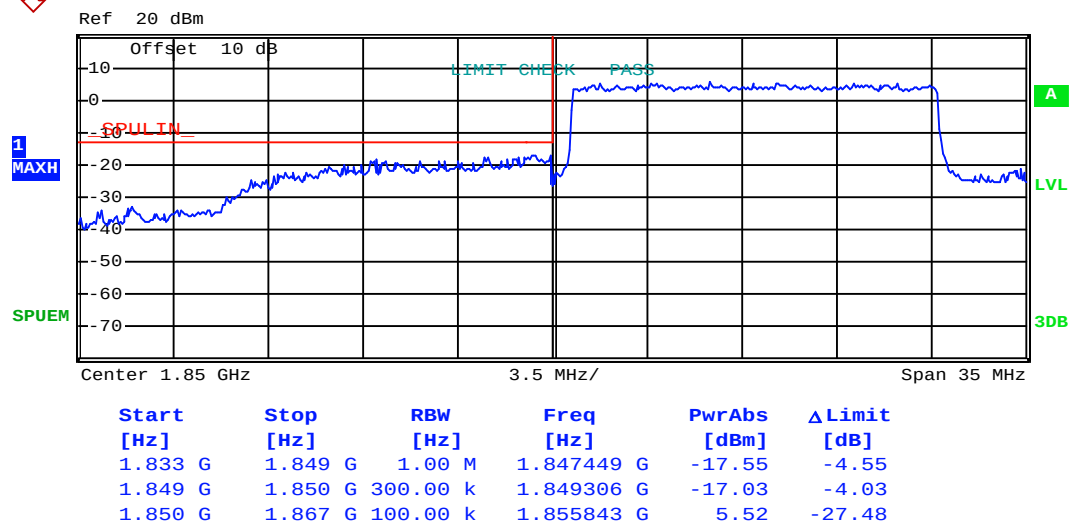


Lowest channel

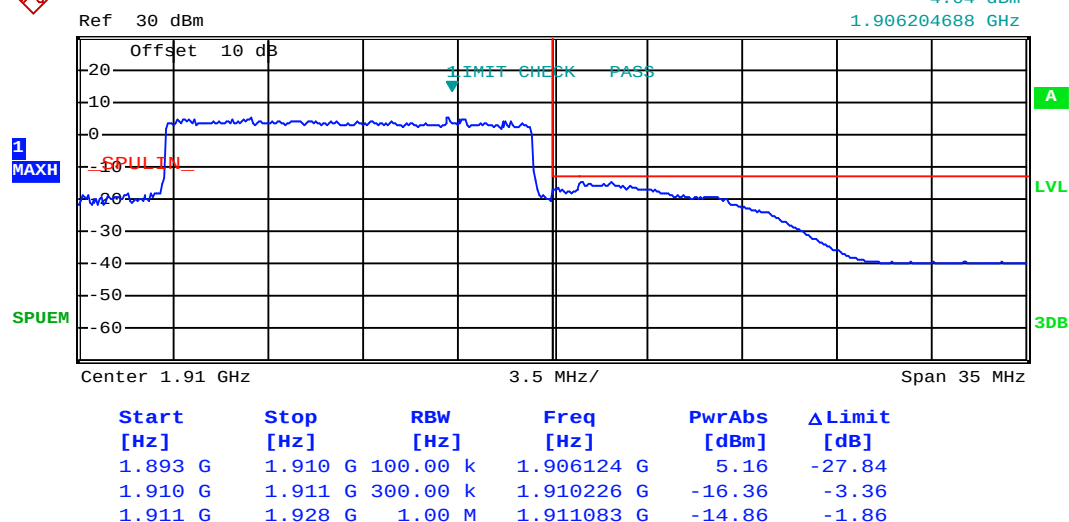


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 75 & RB Offset 0)
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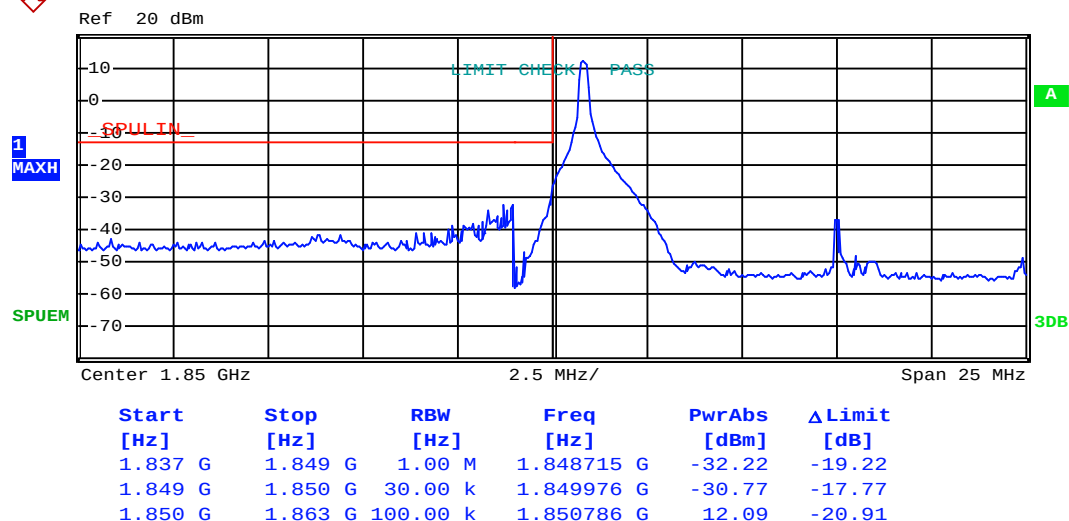


Lowest channel

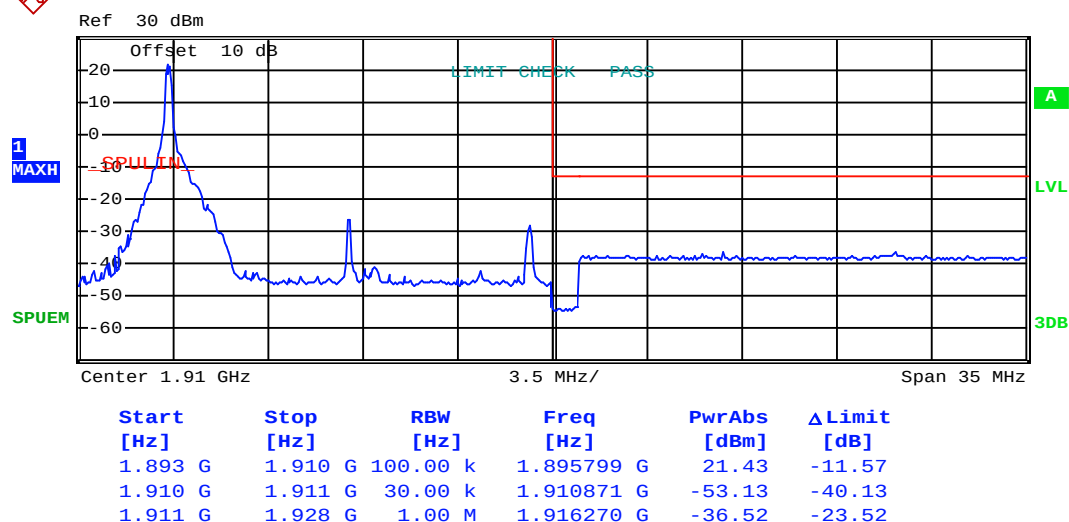


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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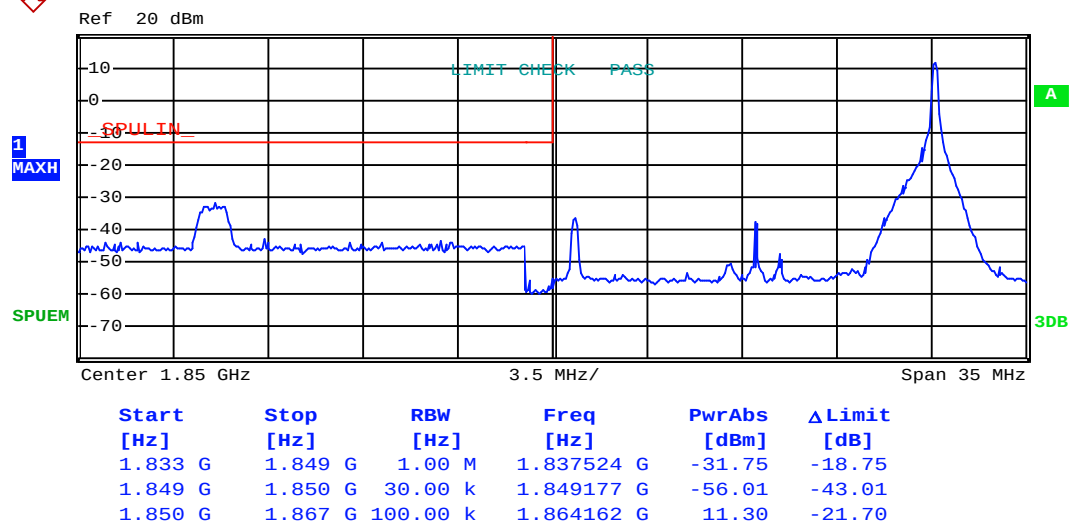


Lowest channel

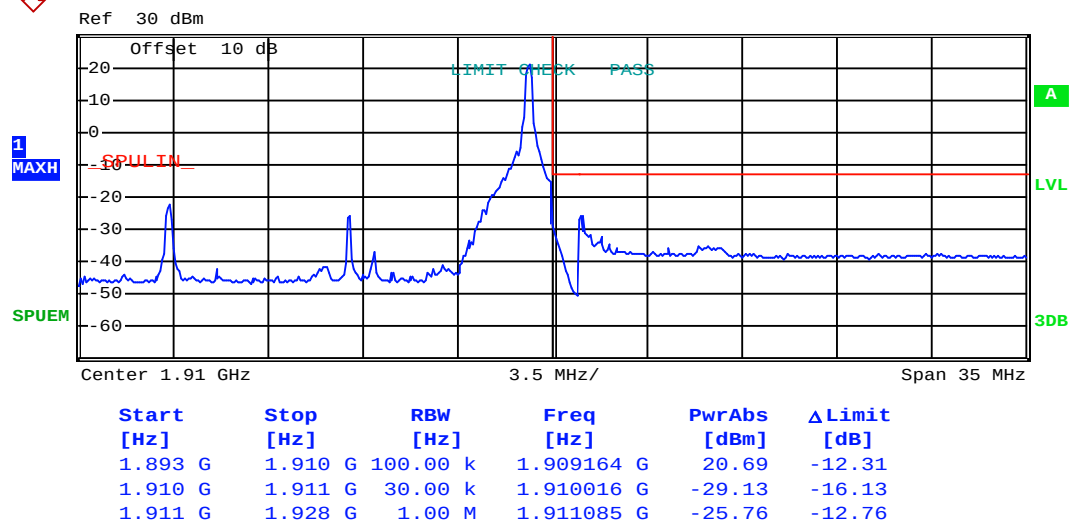


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 74)
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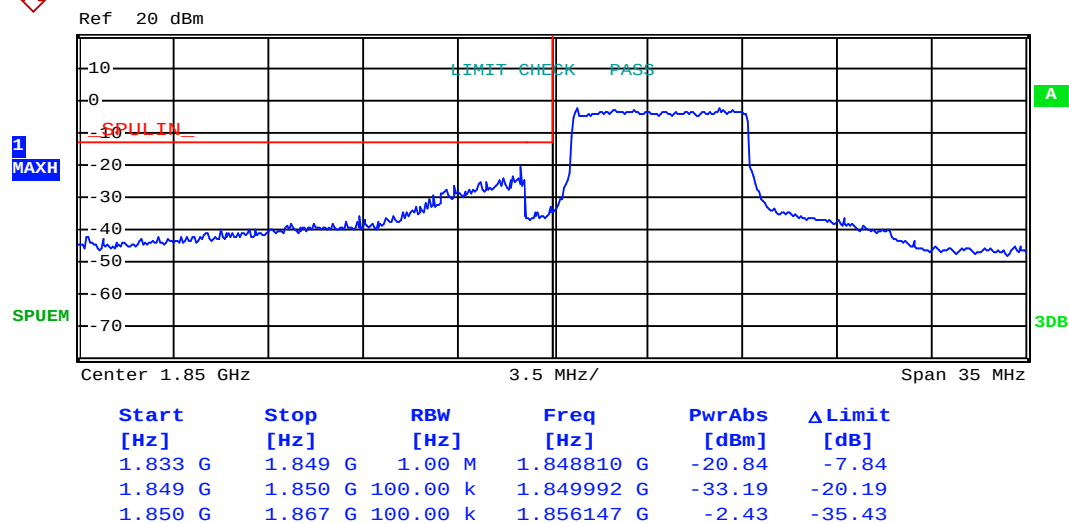


Lowest channel

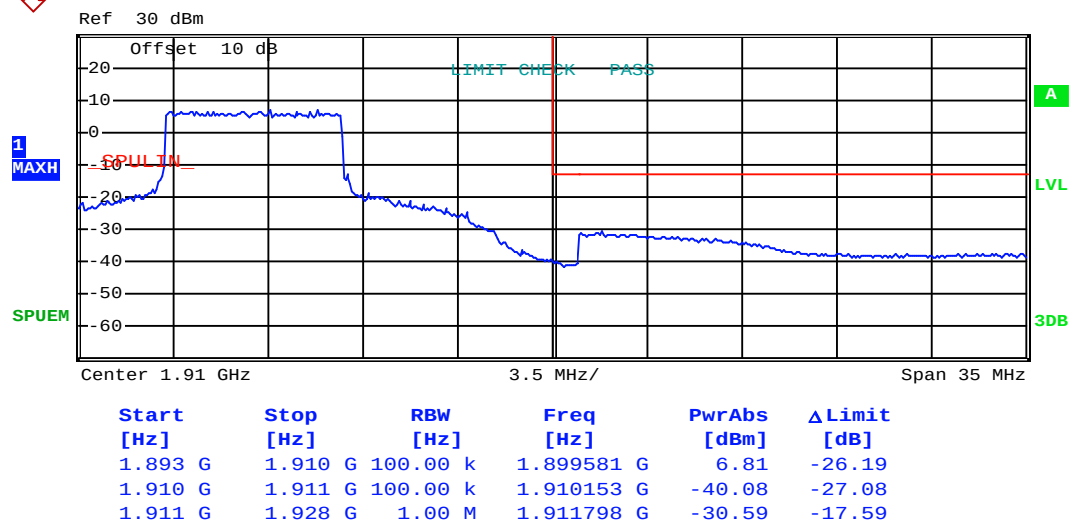


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 36 & RB Offset 0)
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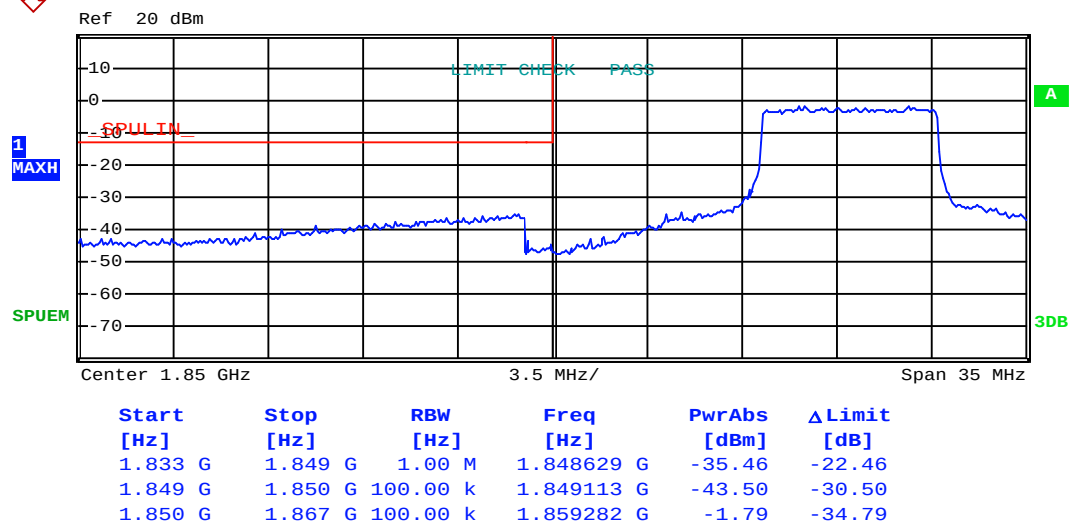


Lowest channel

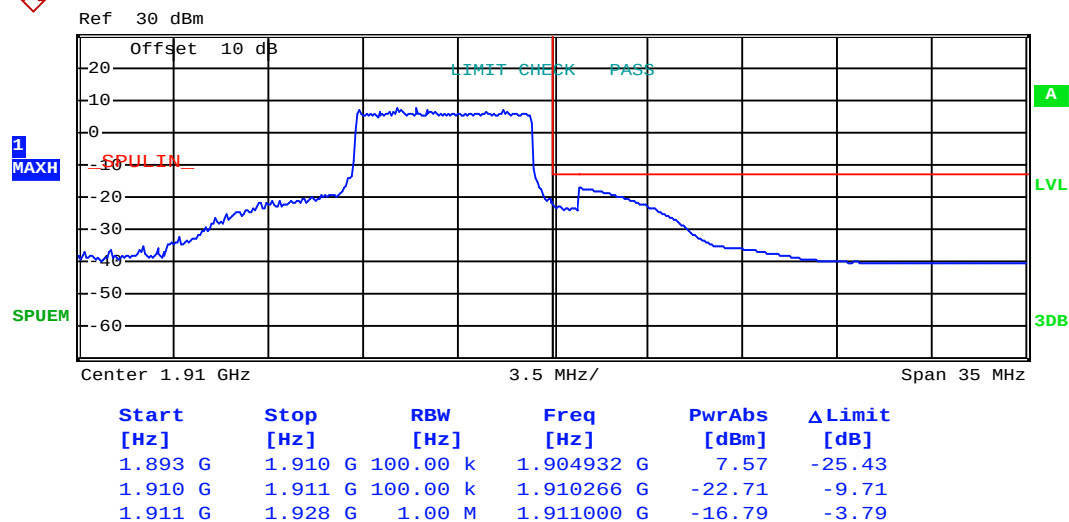


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 36 & RB Offset 37)
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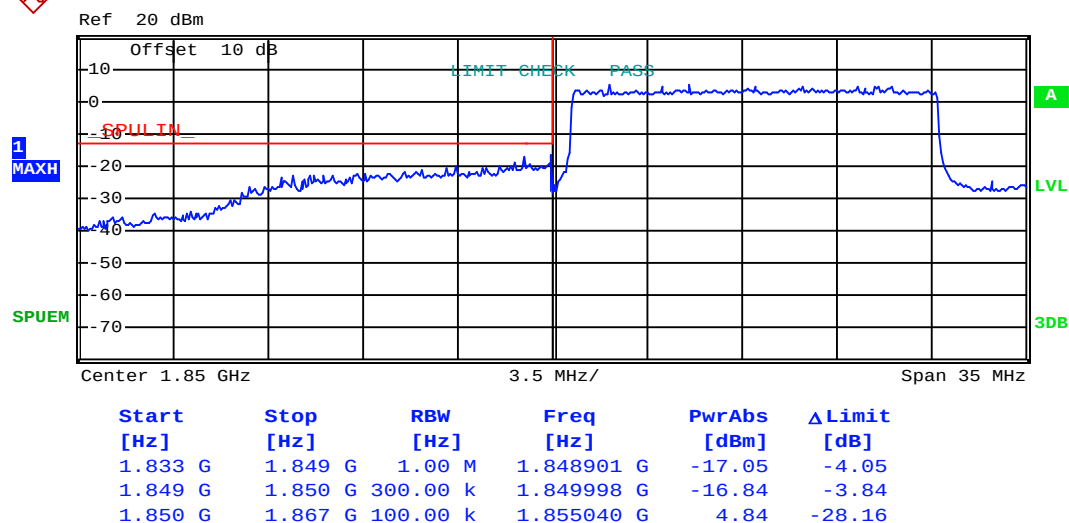


Lowest channel

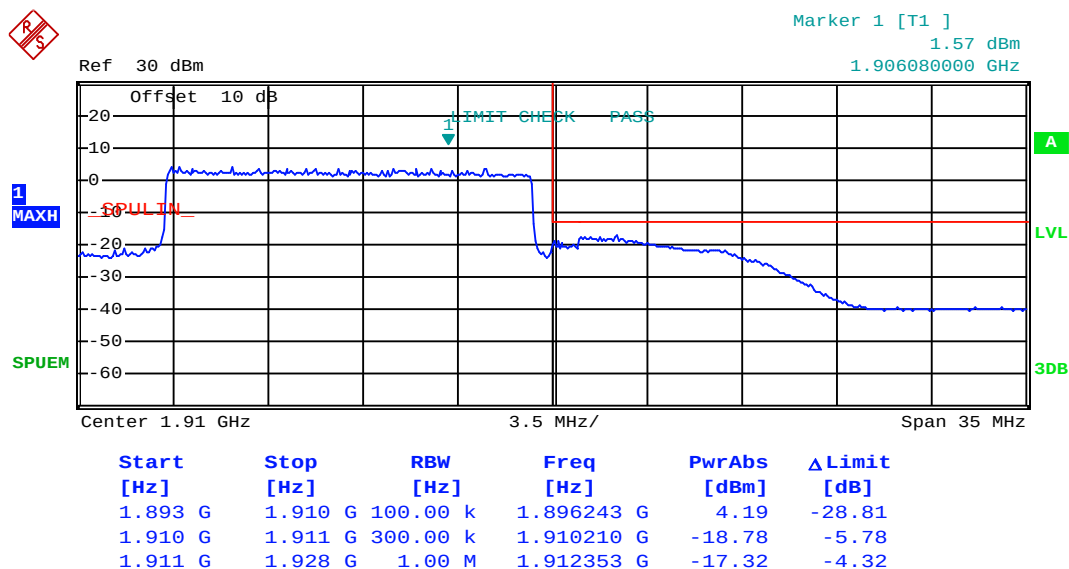


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 75 & RB Offset 0)
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Lowest channel

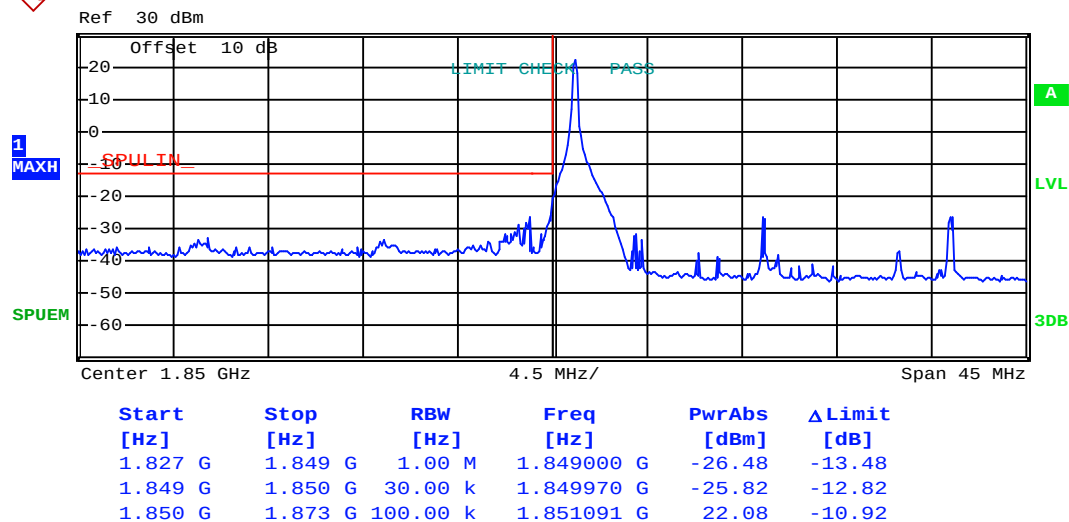


Highest channel

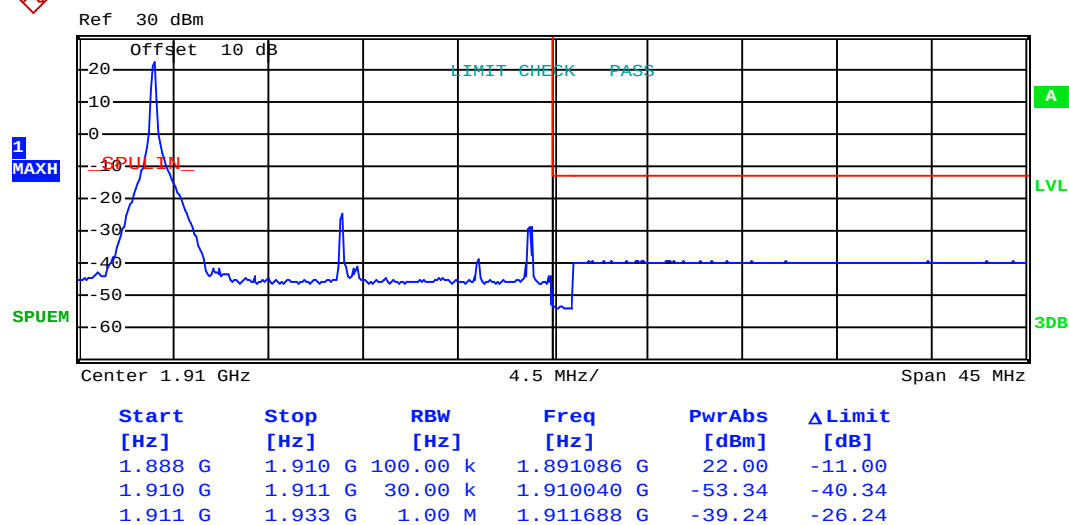
20MHz:

Test Mode:

LTE band 2(QPSK RB Size 1 & RB Offset 0)

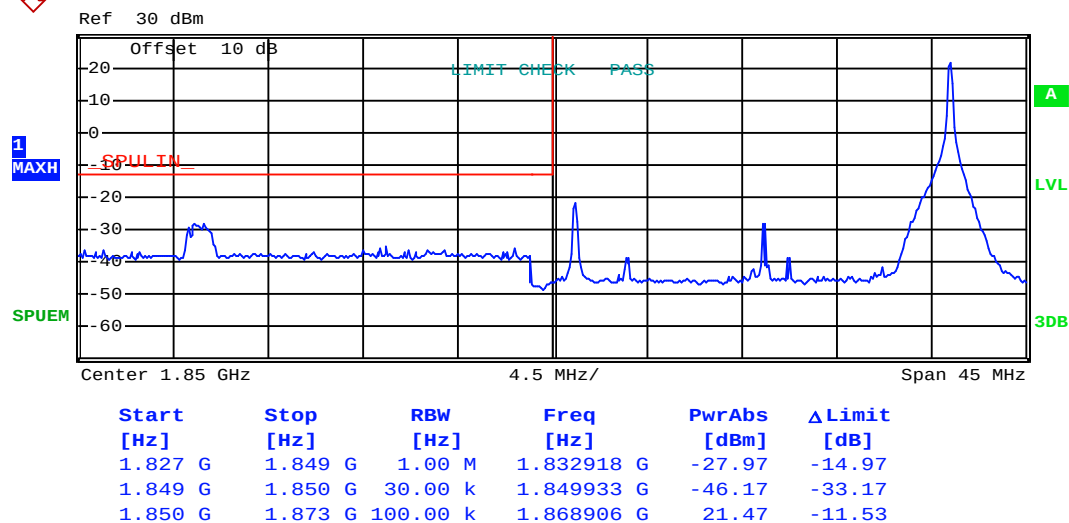


Lowest channel

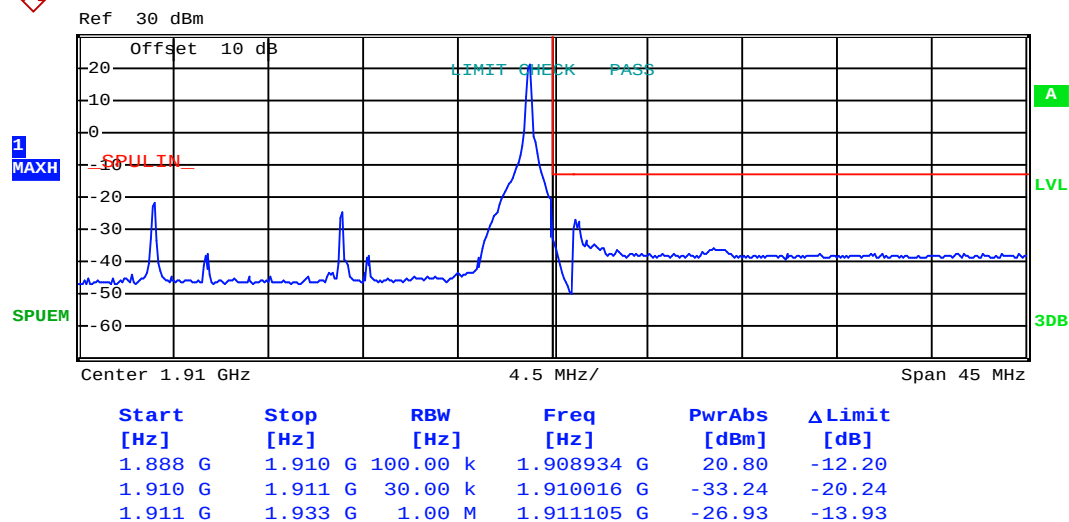


Highest channel

Test Mode:	LTE band 2(QPSK RB Size 1 & RB Offset 99)
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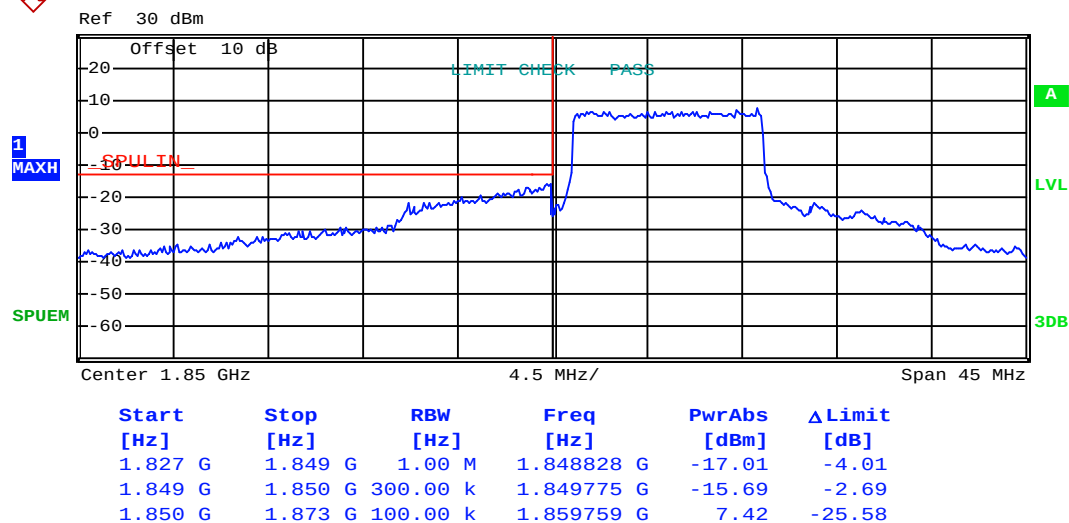
Lowest channel



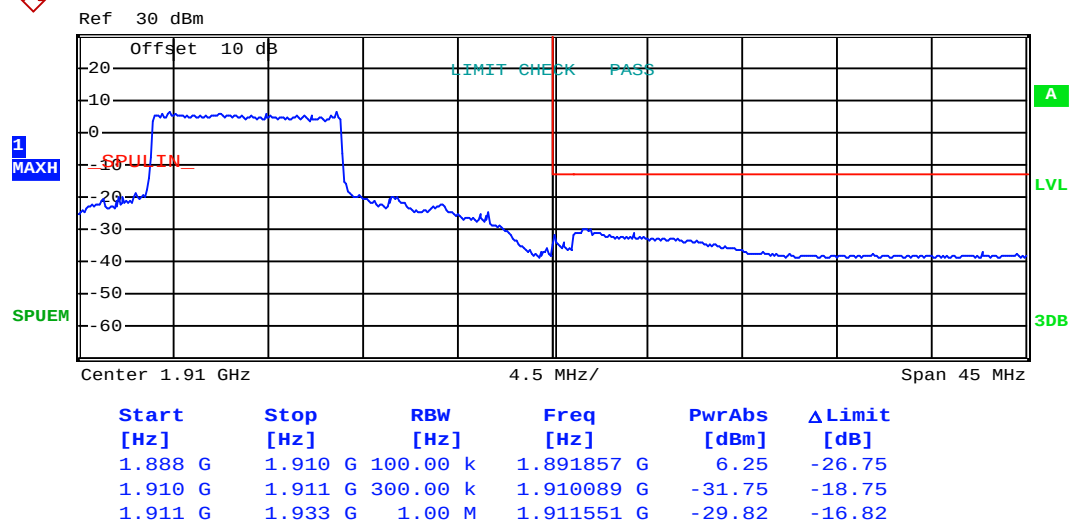
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 50 & RB Offset 0)



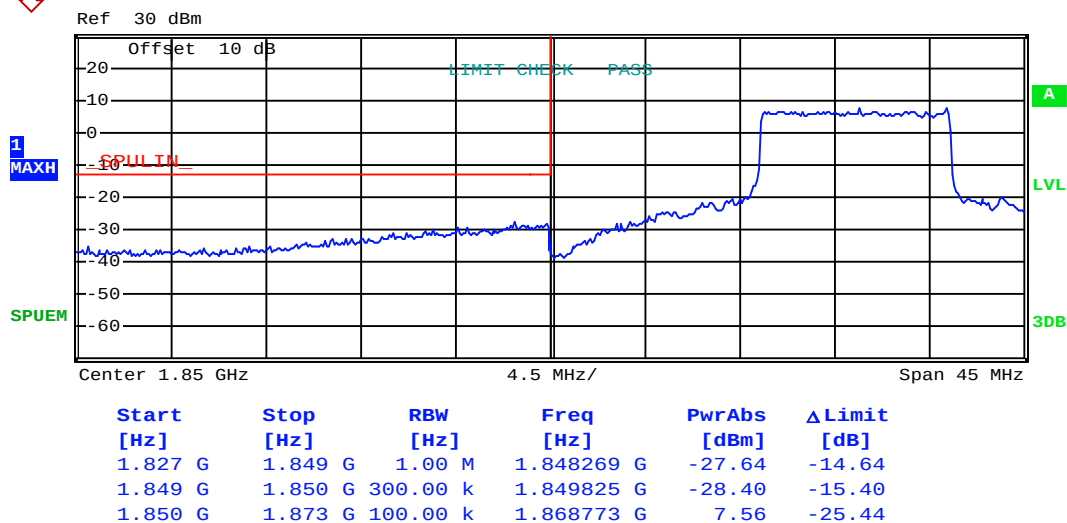
Lowest channel



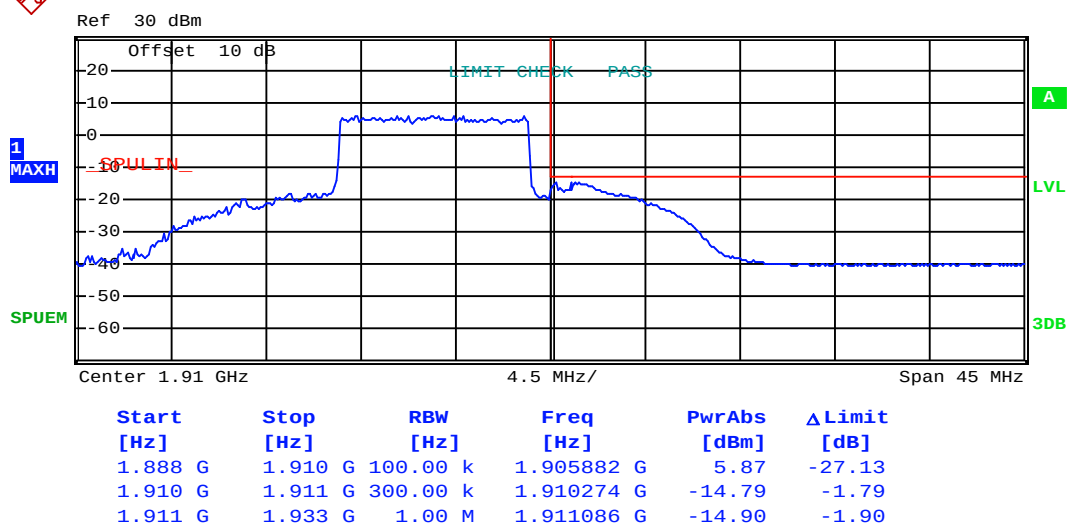
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 50 & RB Offset 49)



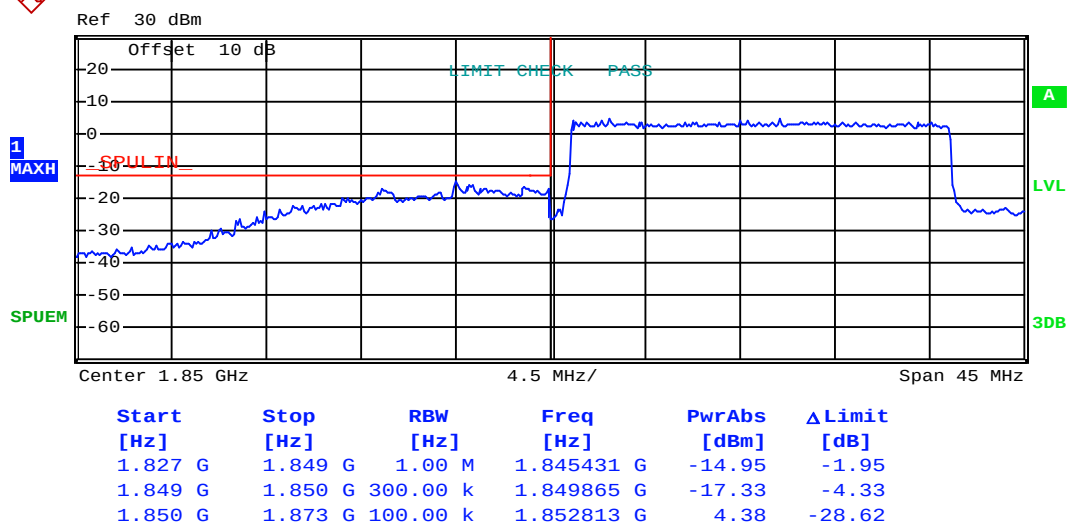
Lowest channel



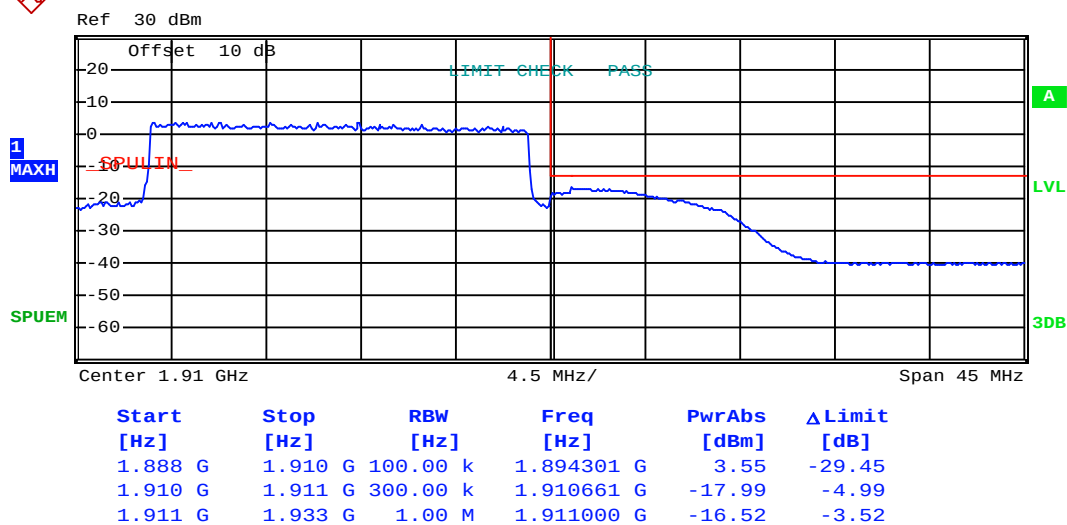
Highest channel

Test Mode:

LTE band 2(QPSK RB Size 100 & RB Offset 0)

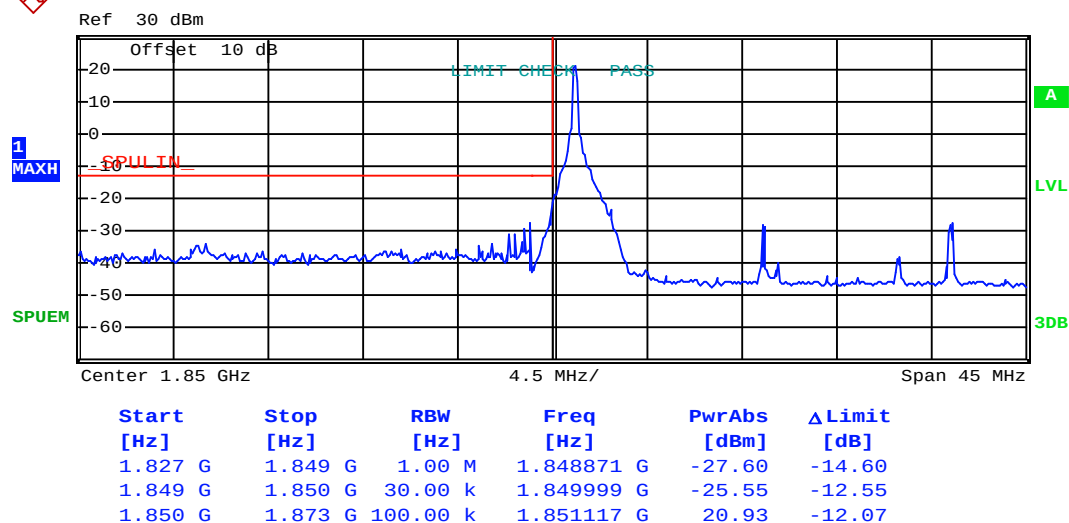


Lowest channel

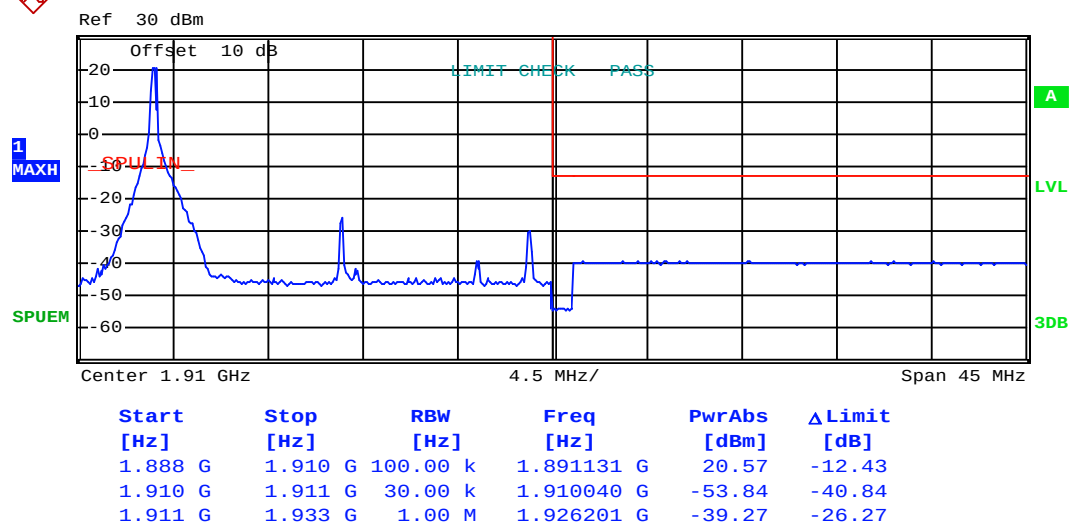


Highest channel

Test Mode:	LTE band 2(16QAM RB Size 1 & RB Offset 0)
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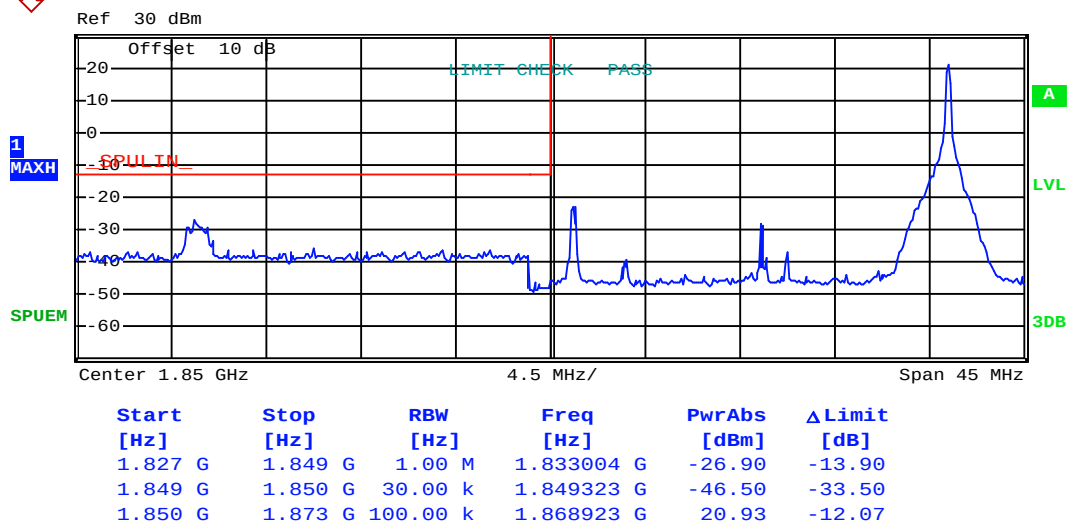
Lowest channel



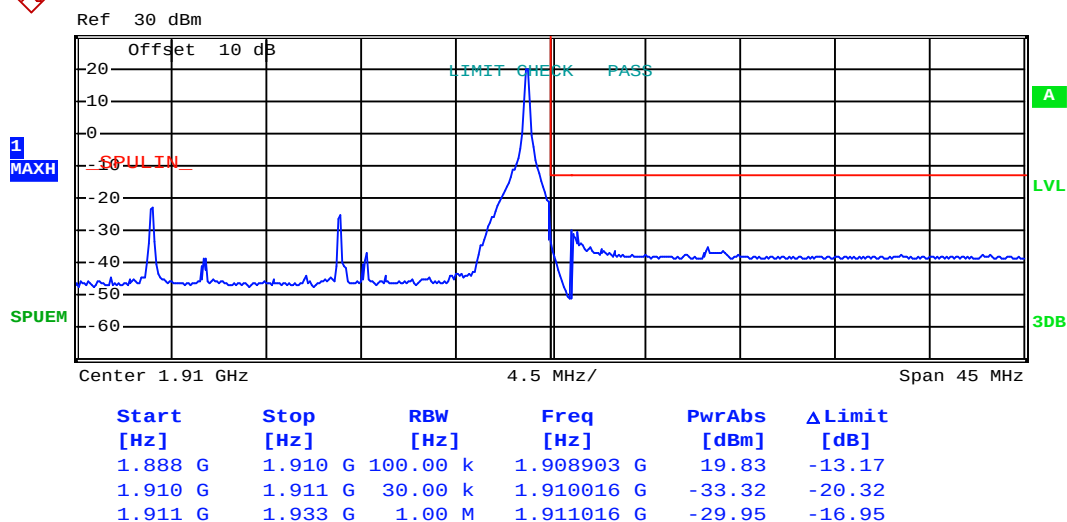
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 1 & RB Offset 99)



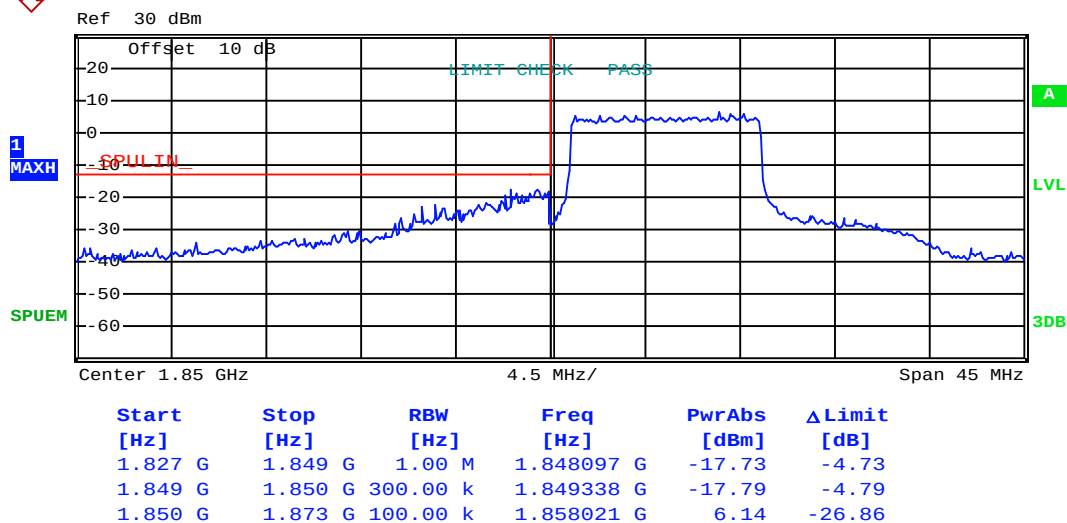
Lowest channel



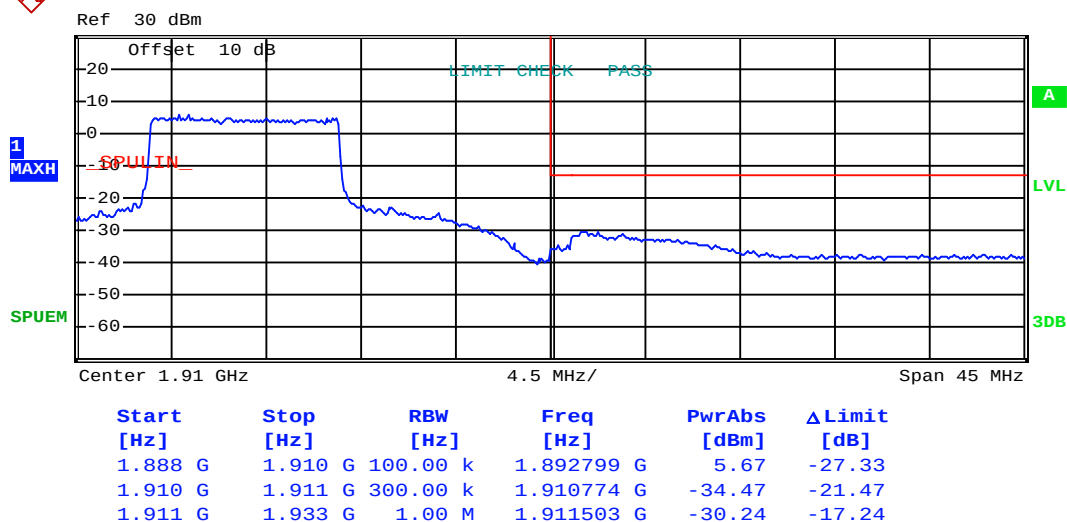
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 0)



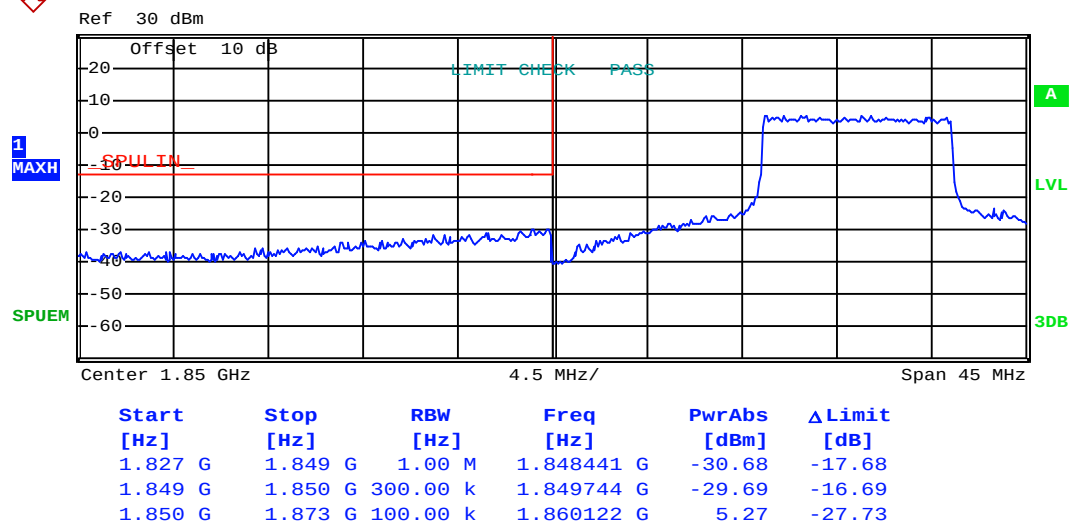
Lowest channel



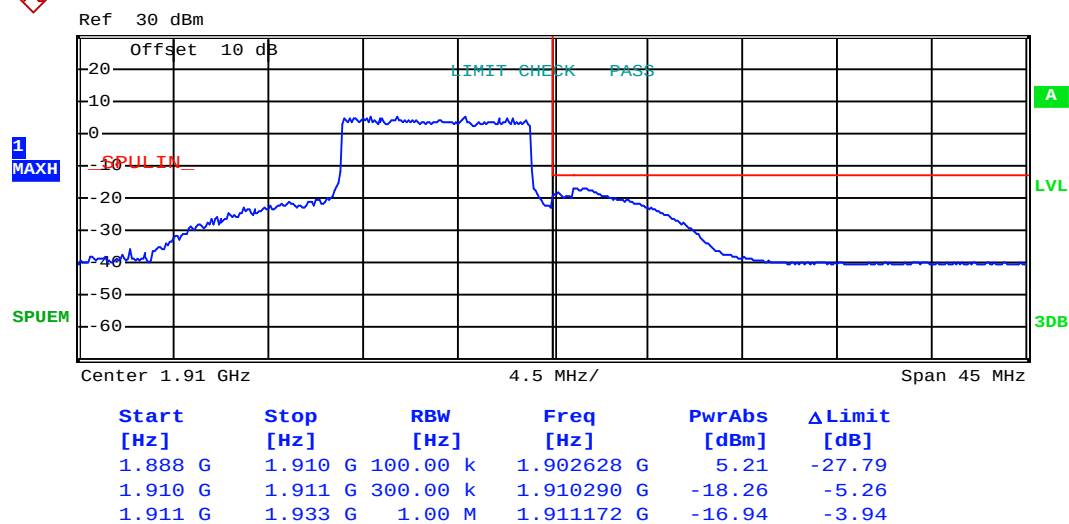
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 50 & RB Offset 49)



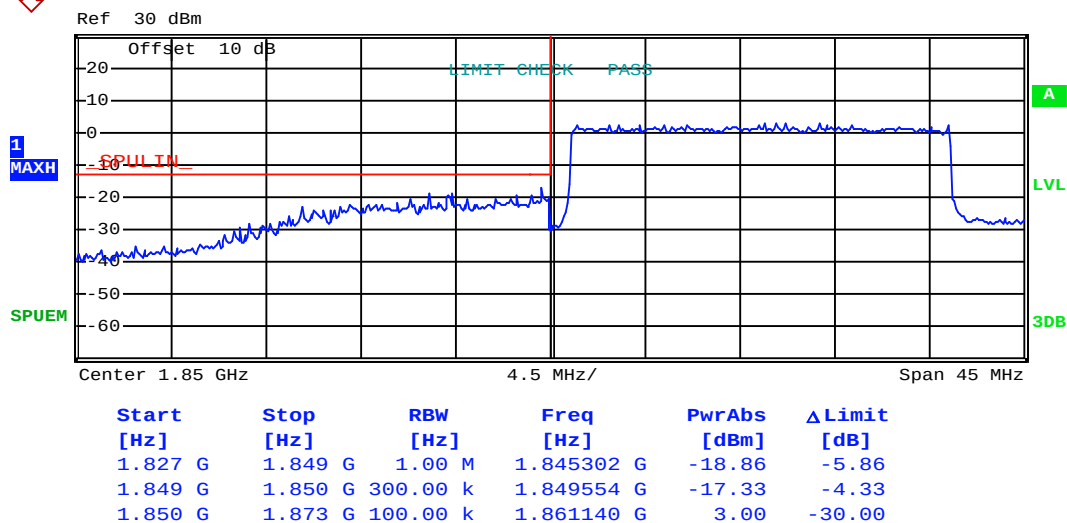
Lowest channel



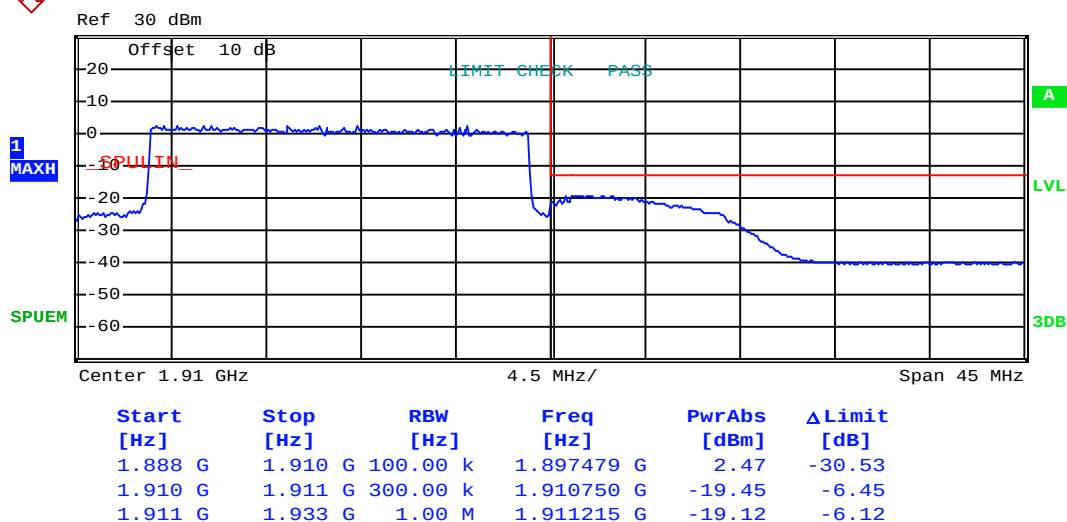
Highest channel

Test Mode:

LTE band 2(16QAM RB Size 100 & RB Offset 0)



Lowest channel

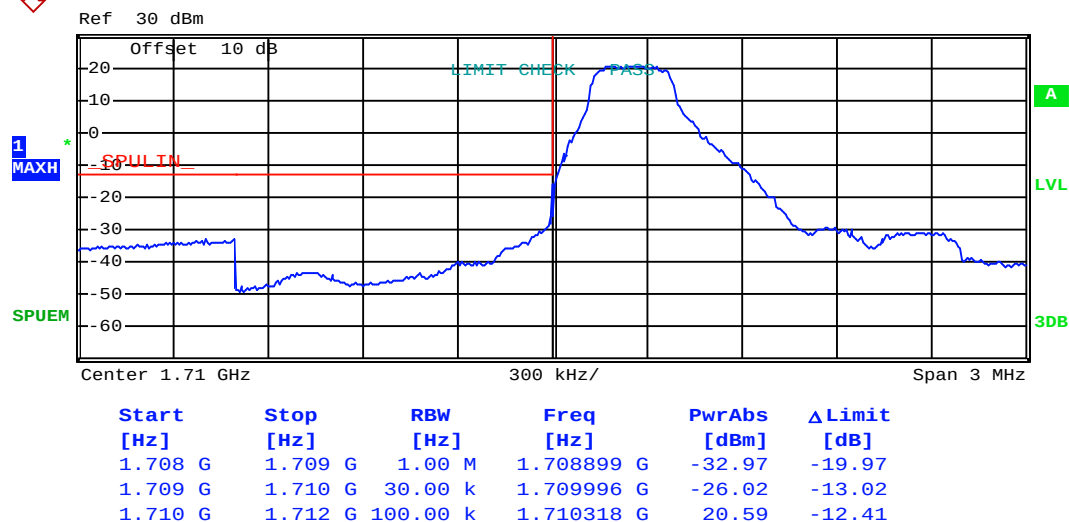


Highest channel

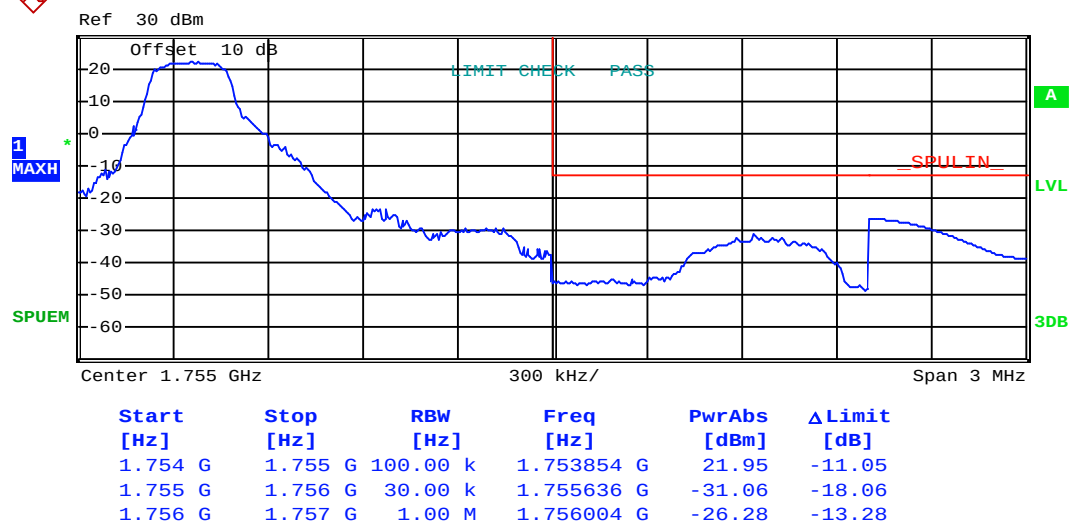
LTE band 4 part:

1.4MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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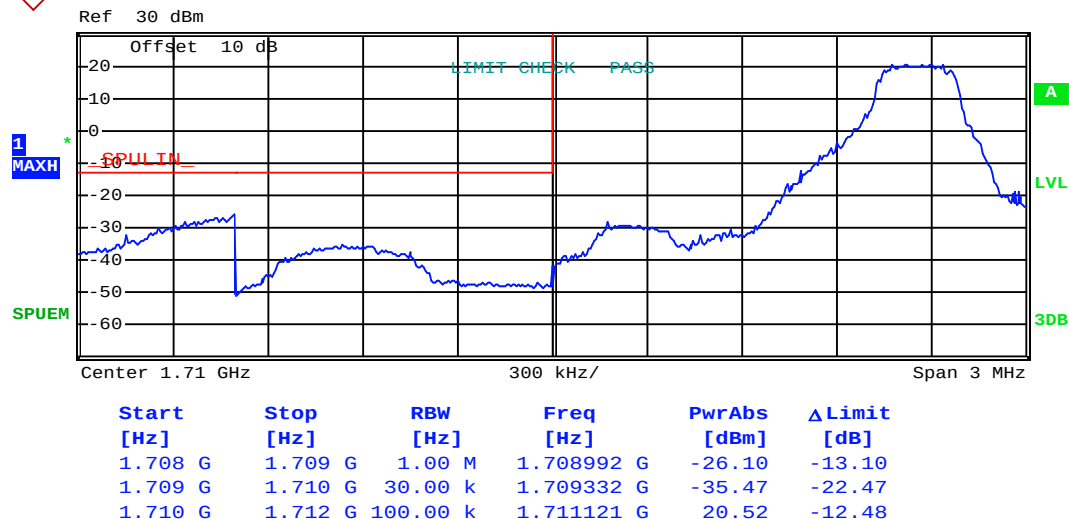
Lowest channel



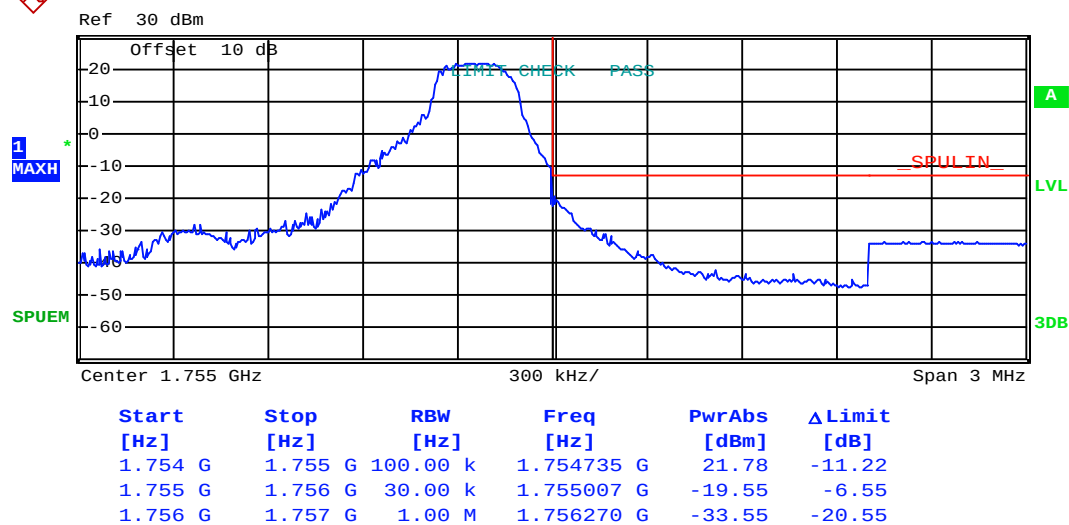
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 5)

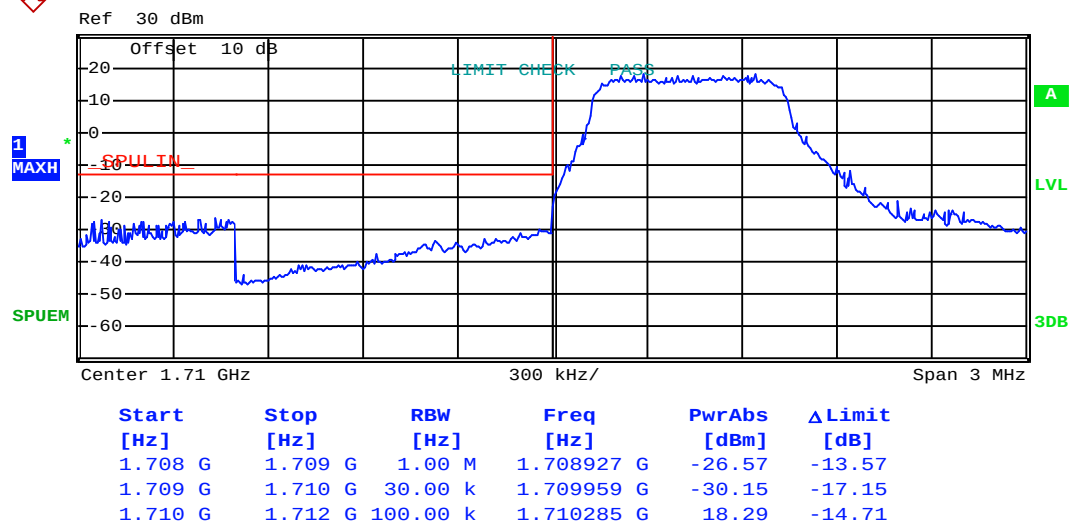


Lowest channel

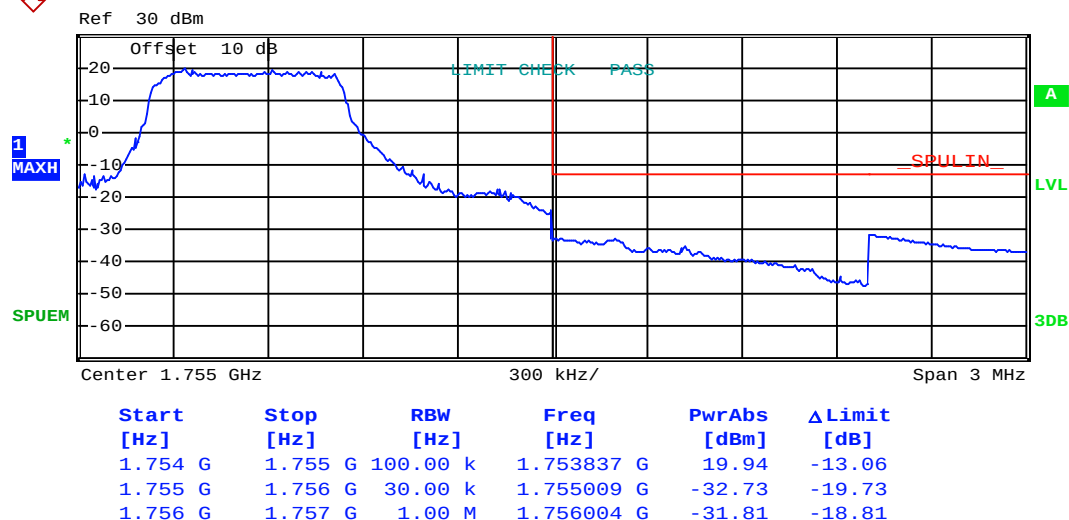


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 3 & RB Offset 0)
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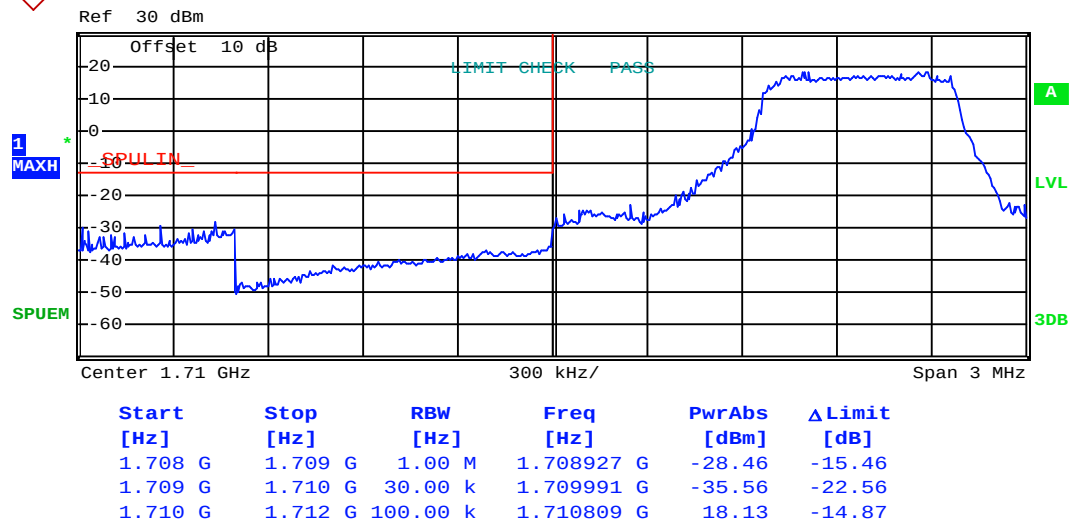
Lowest channel



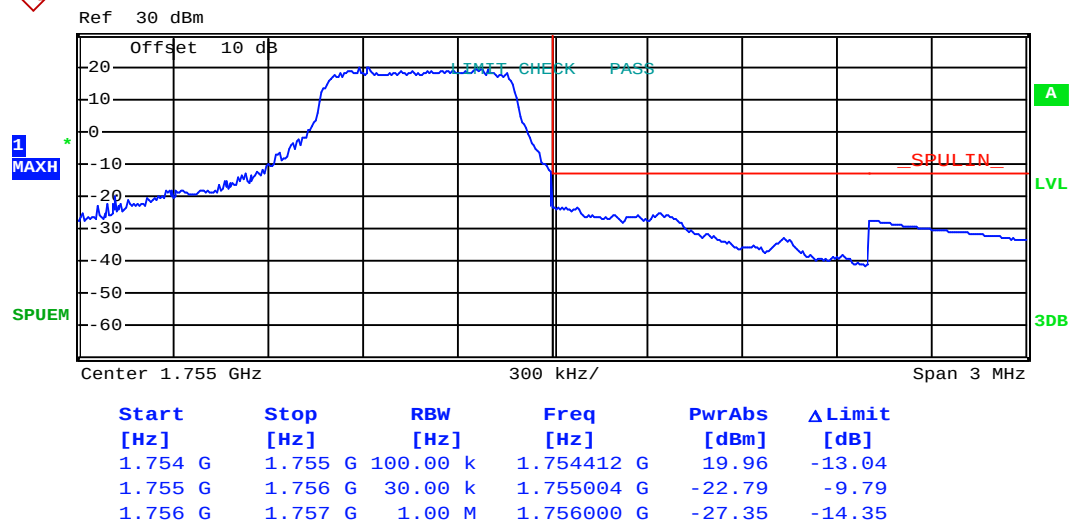
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 3 & RB Offset 2)



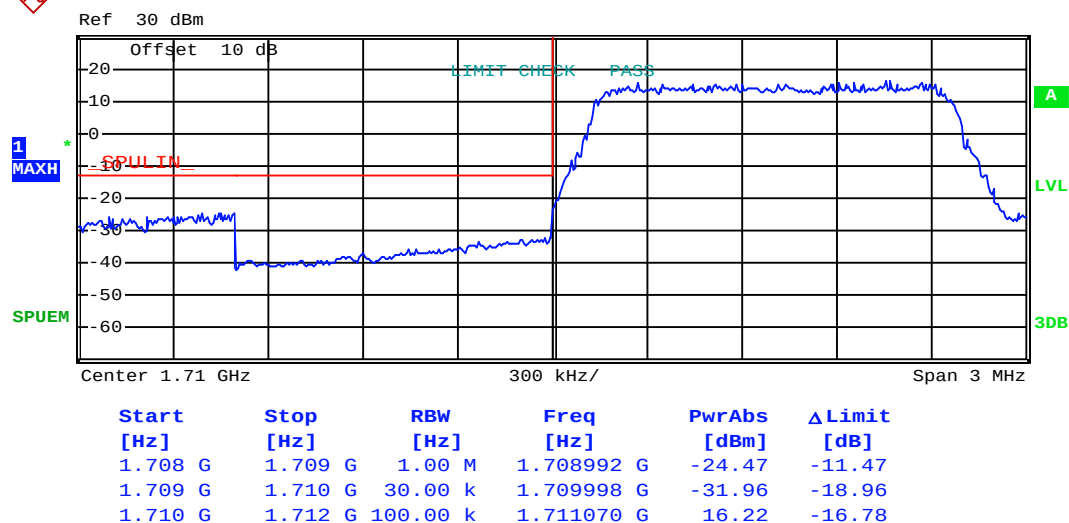
Lowest channel



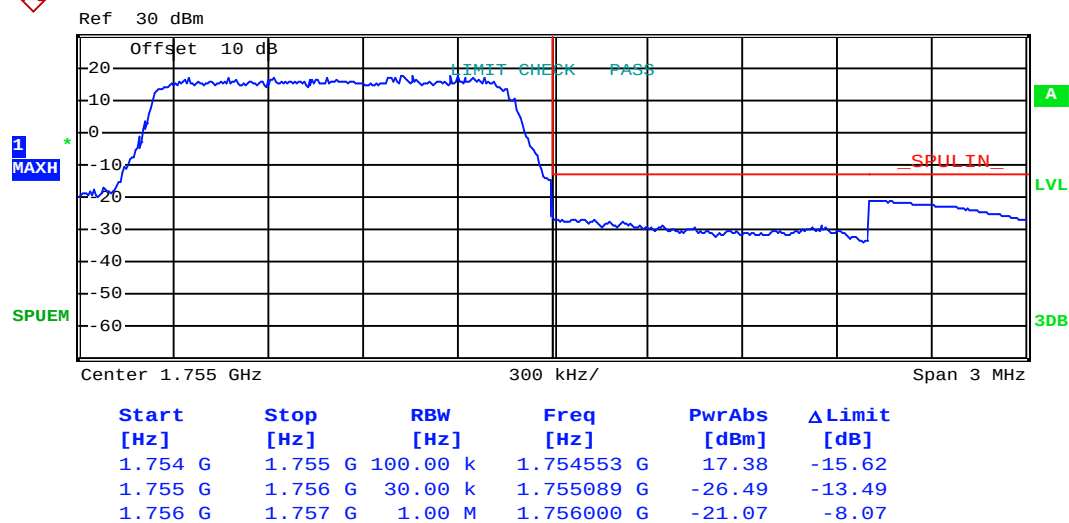
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 6 & RB Offset 0)

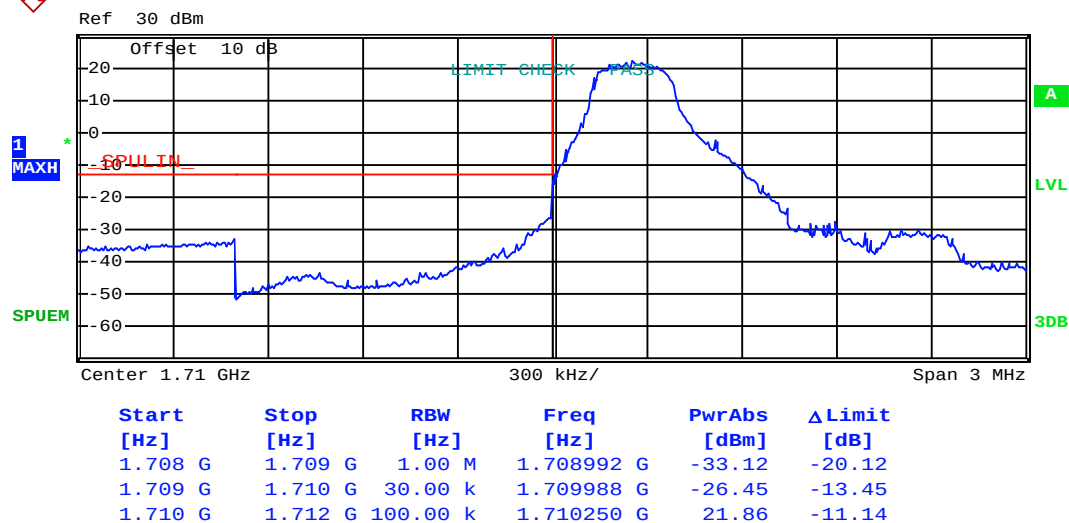


Lowest channel

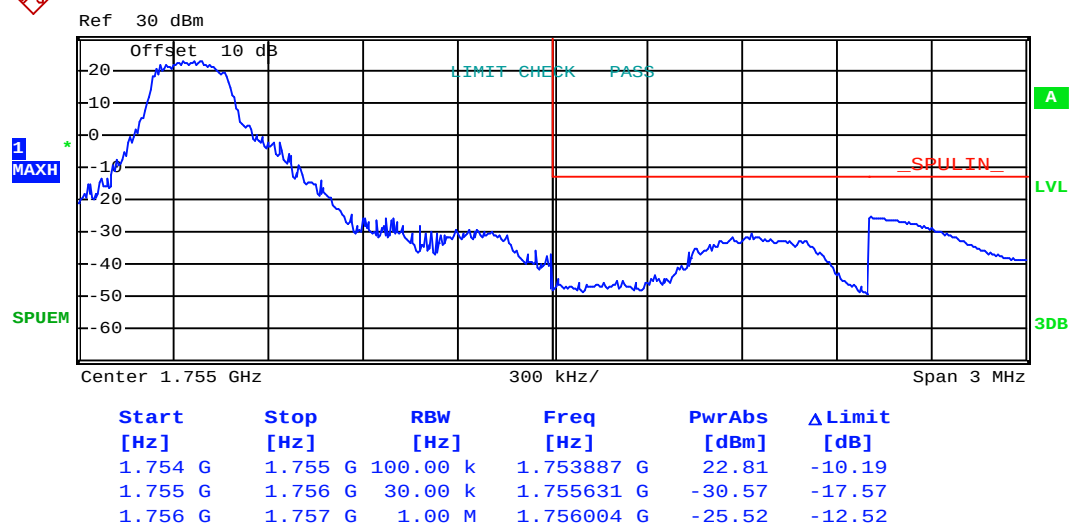


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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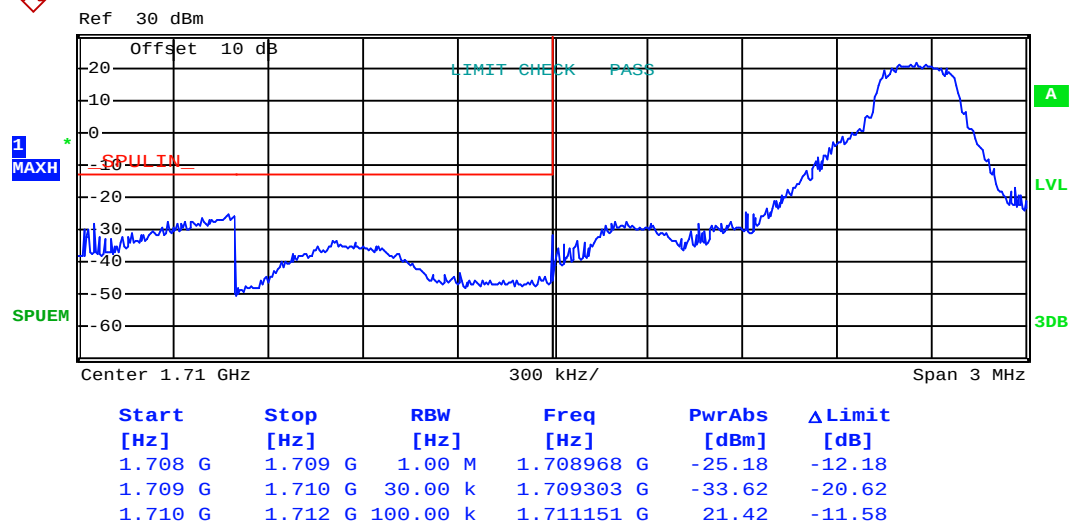
Lowest channel



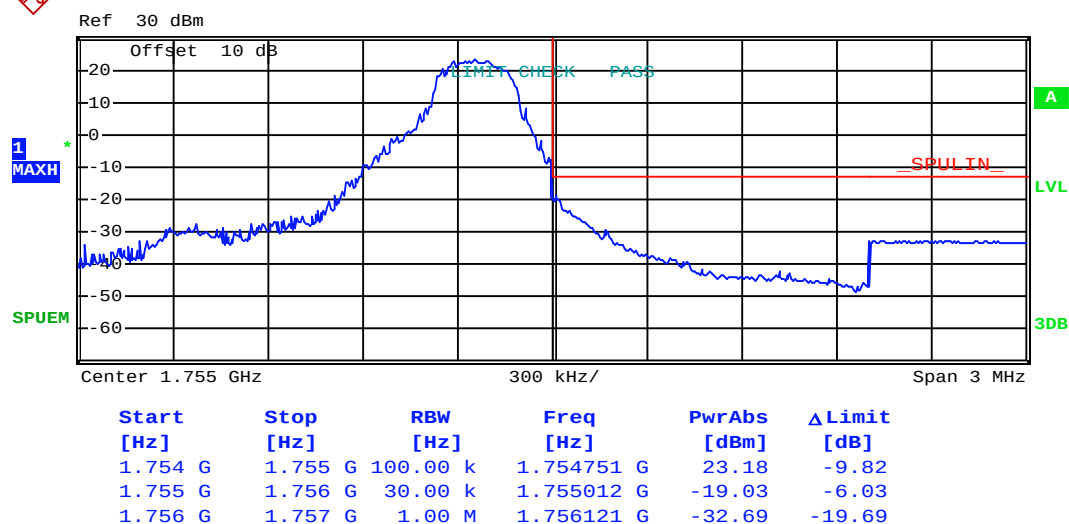
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 5)

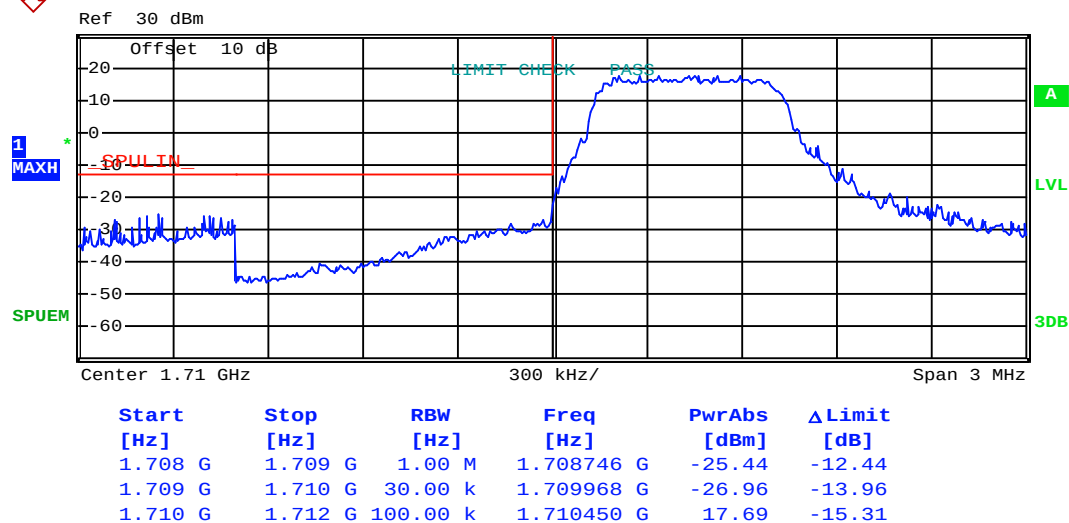


Lowest channel

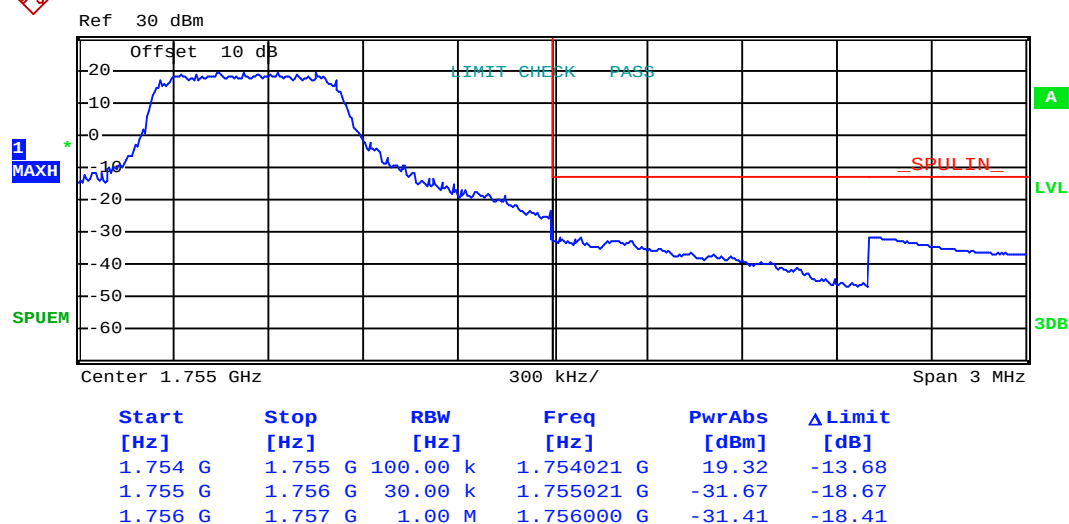


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 3 & RB Offset 0)
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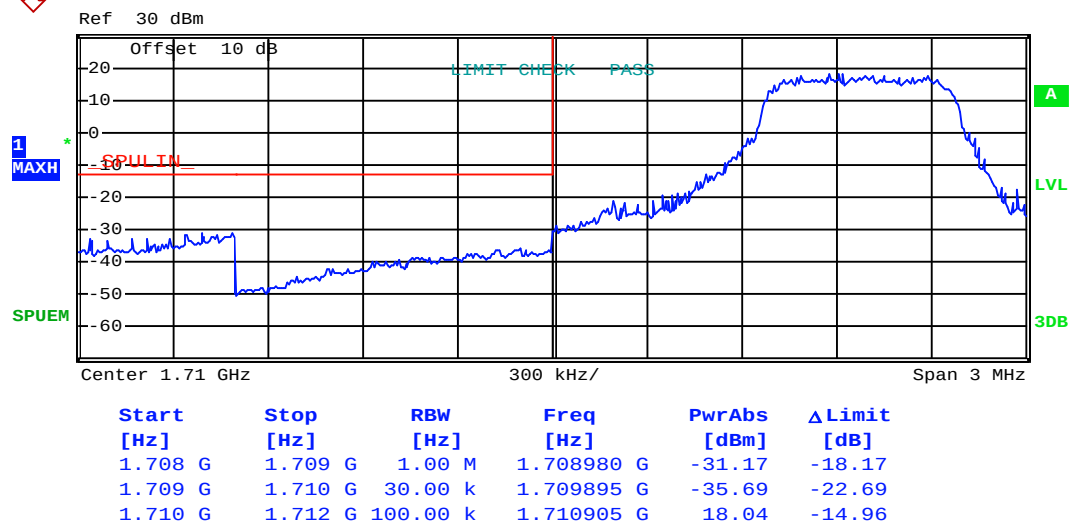


Lowest channel

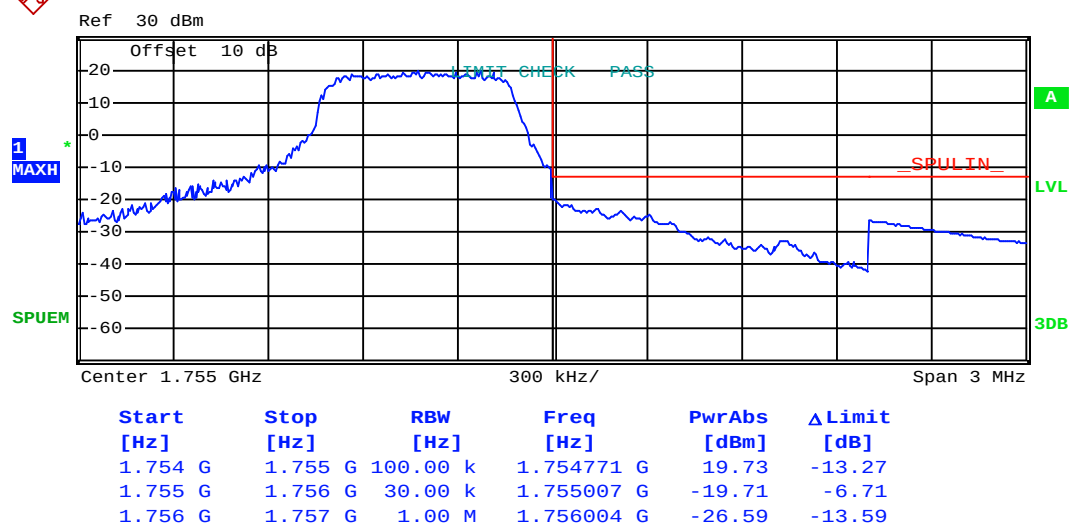


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 3 & RB Offset 2)
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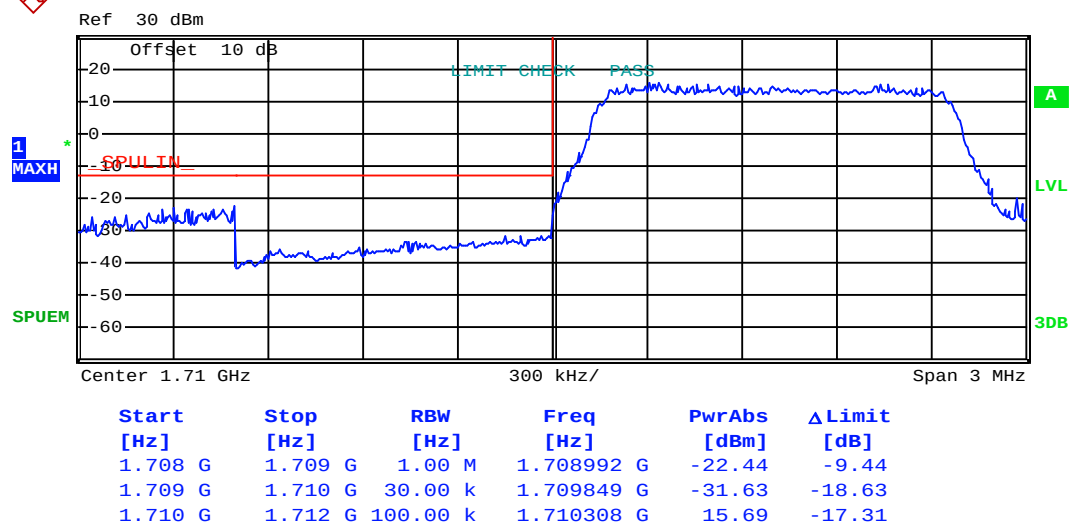
Lowest channel



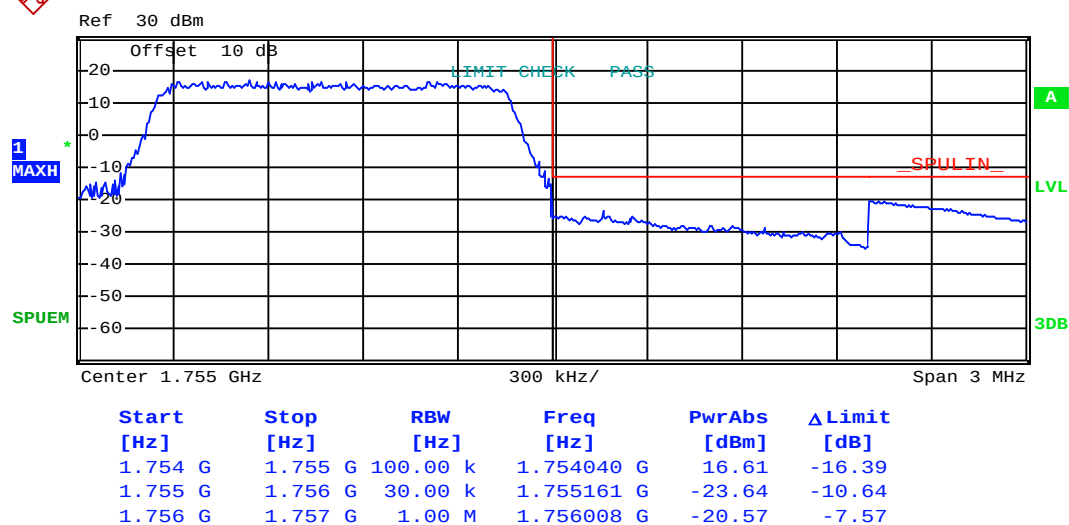
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 6 & RB Offset 0)



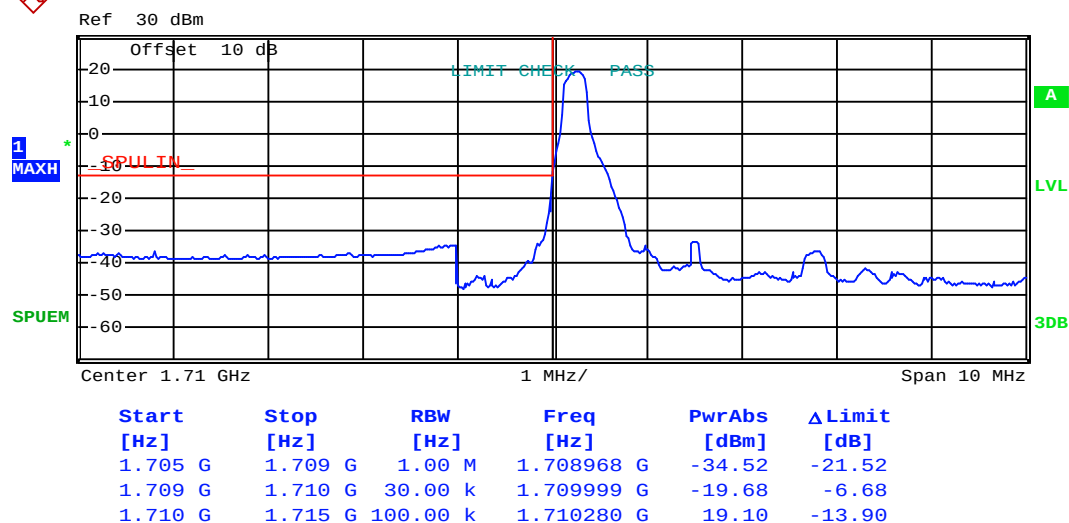
Lowest channel



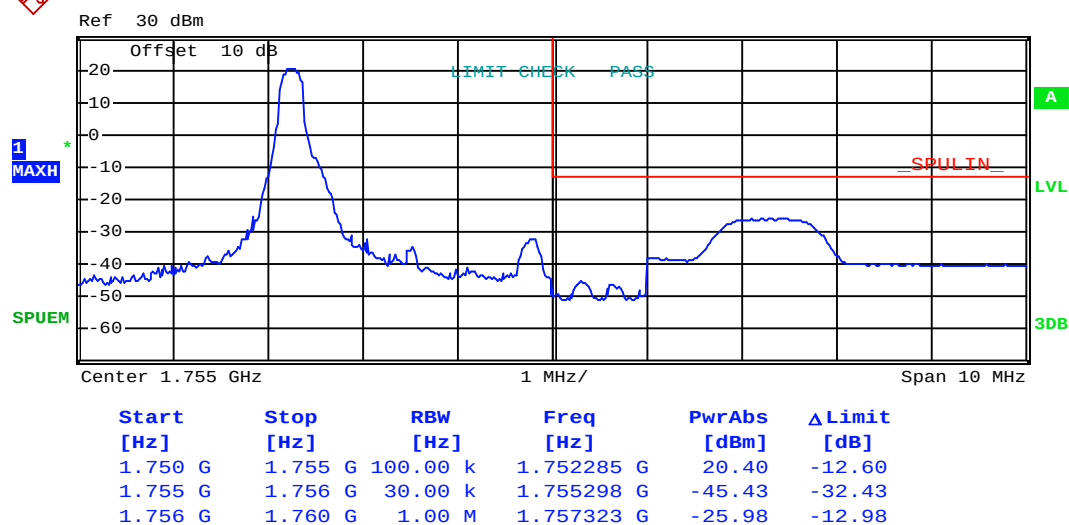
Highest channel

3MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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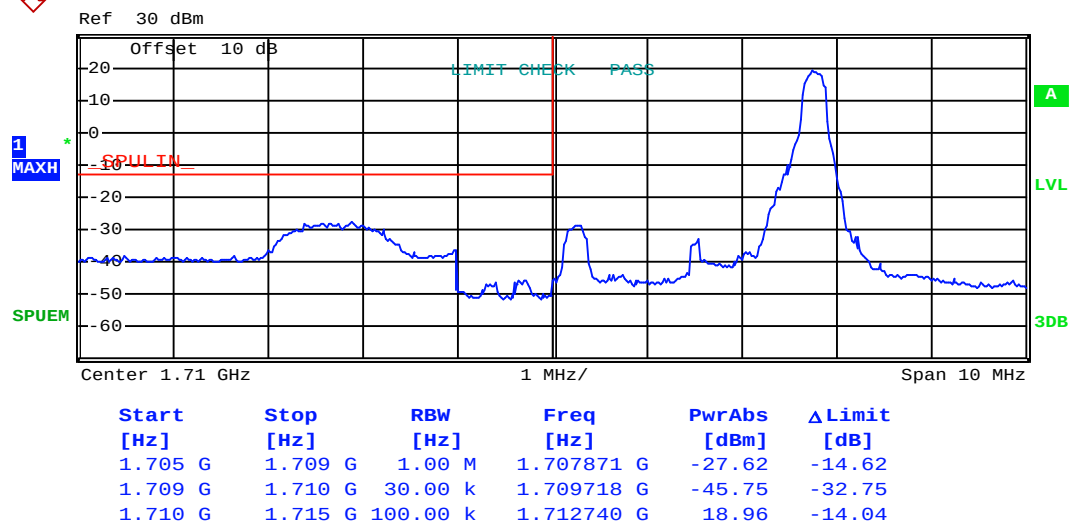


Lowest channel

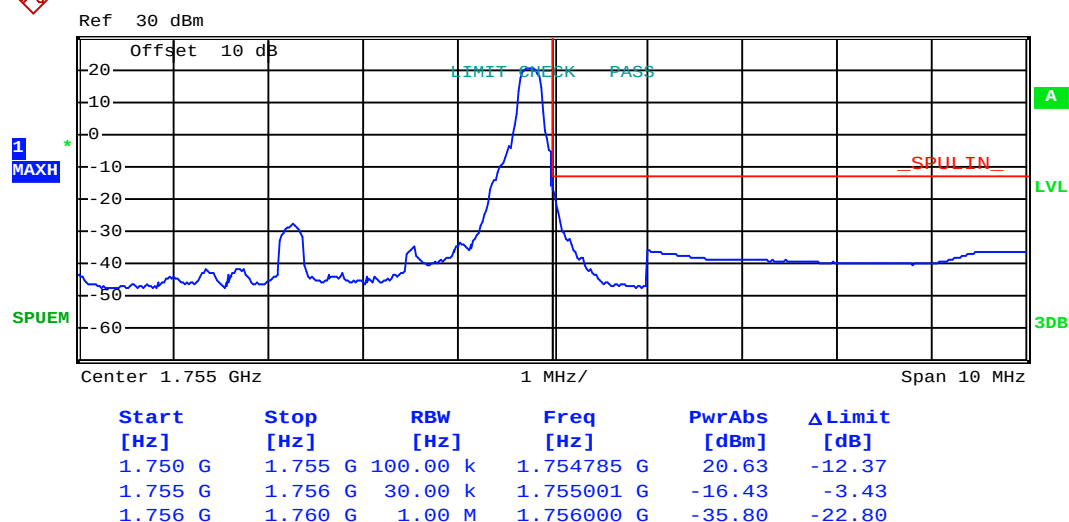


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 14)
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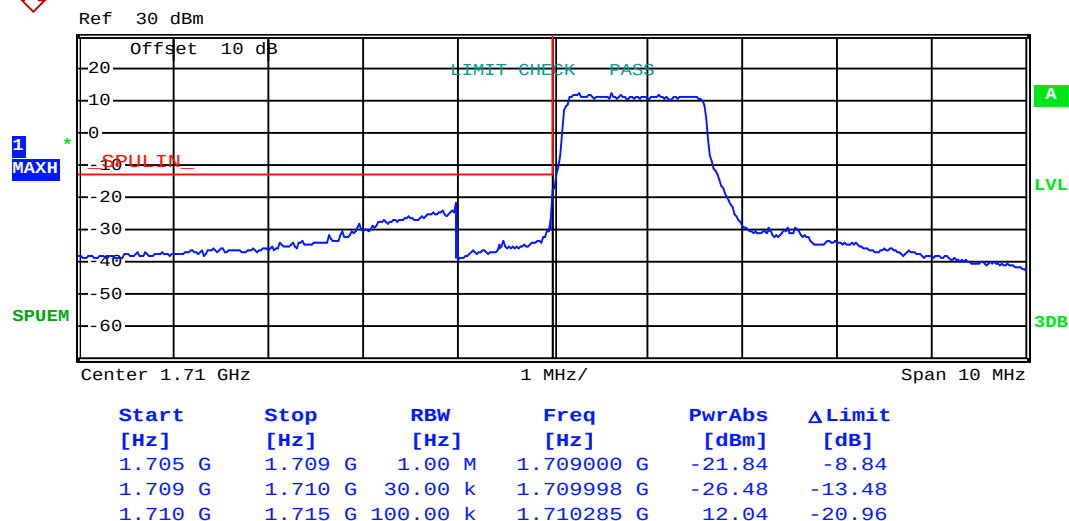


Lowest channel

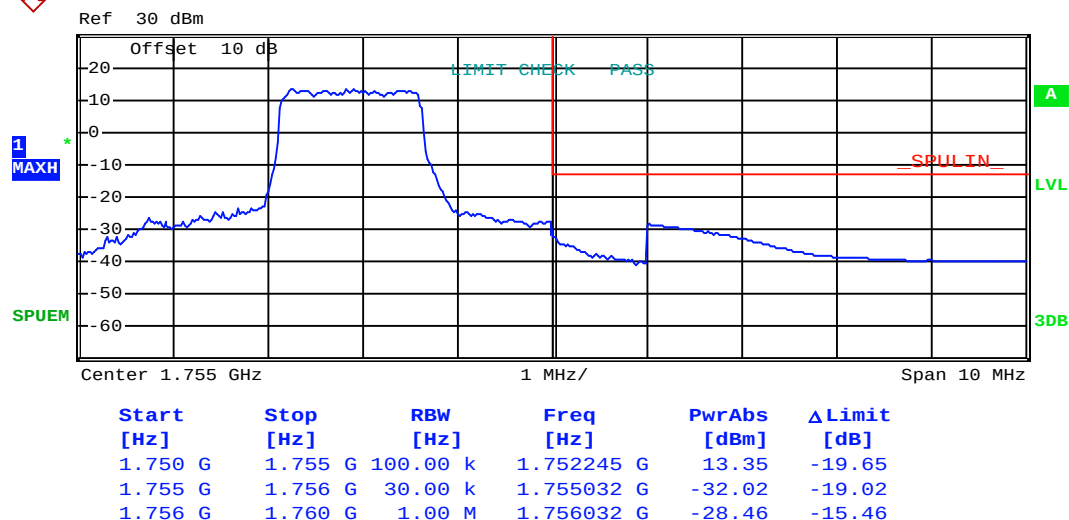


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 8 & RB Offset 0)
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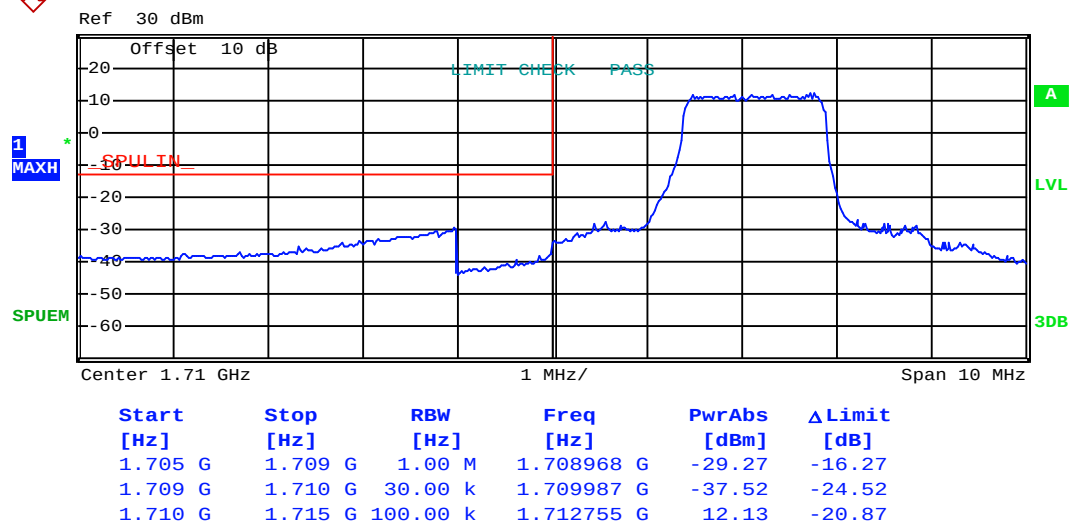


Lowest channel

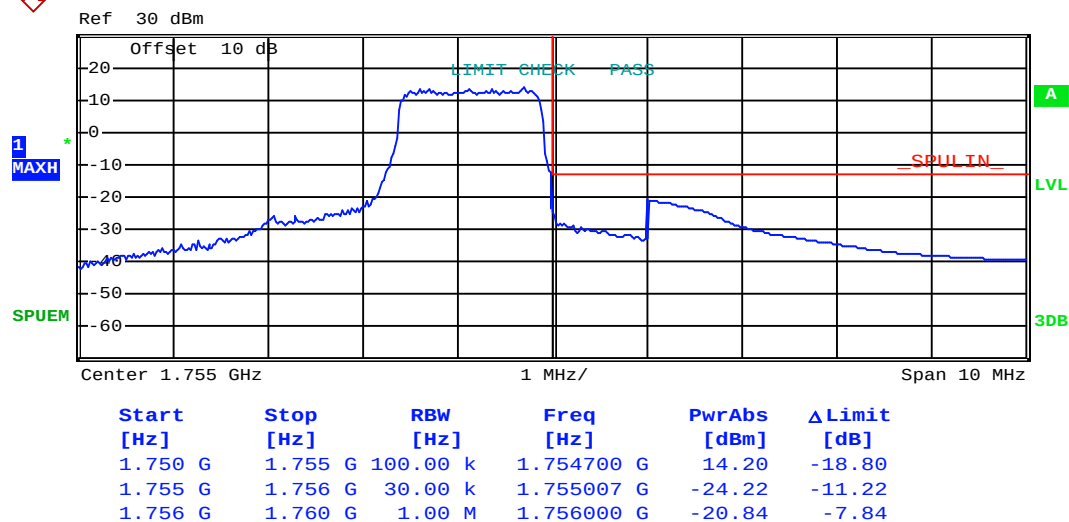


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 8 & RB Offset 7)
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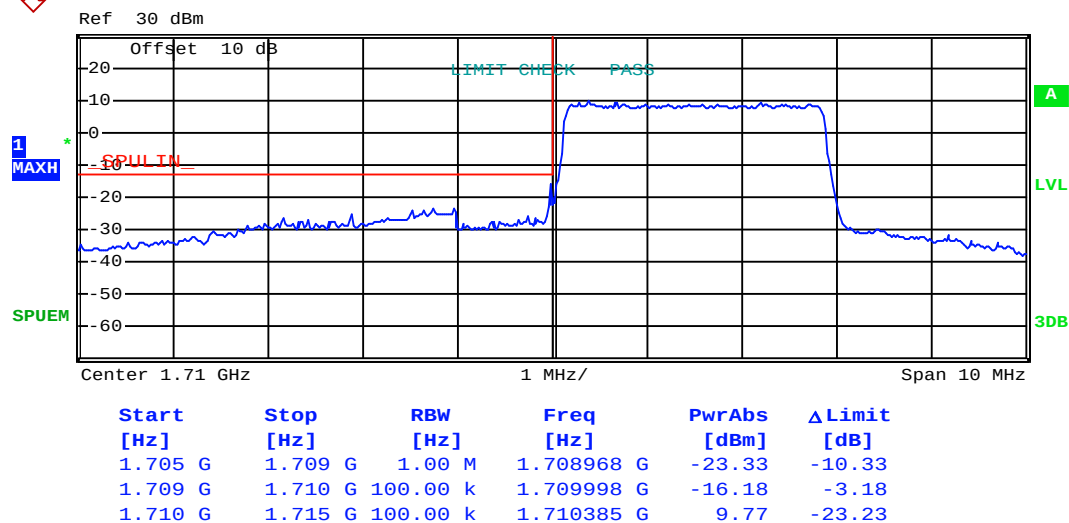


Lowest channel

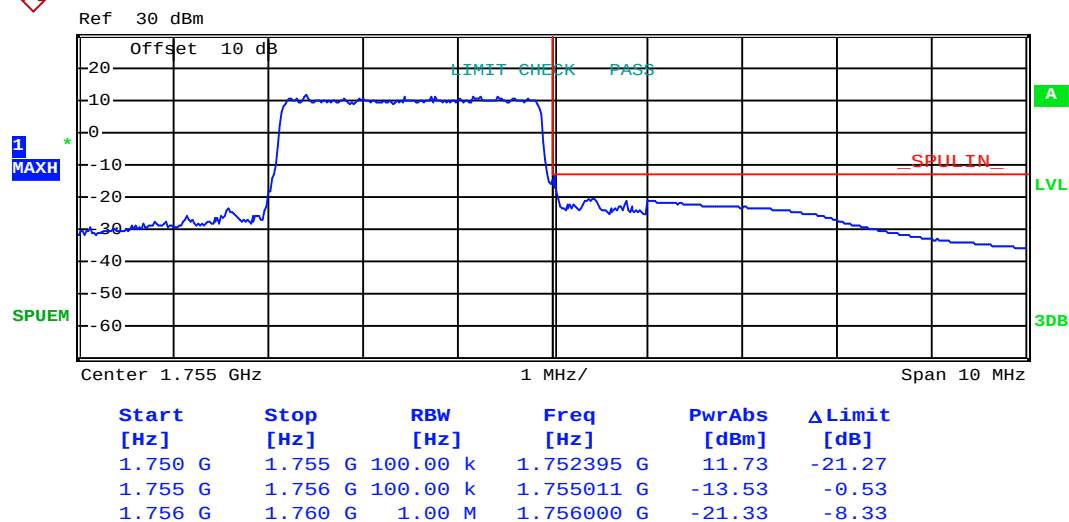


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 15 & RB Offset 0)
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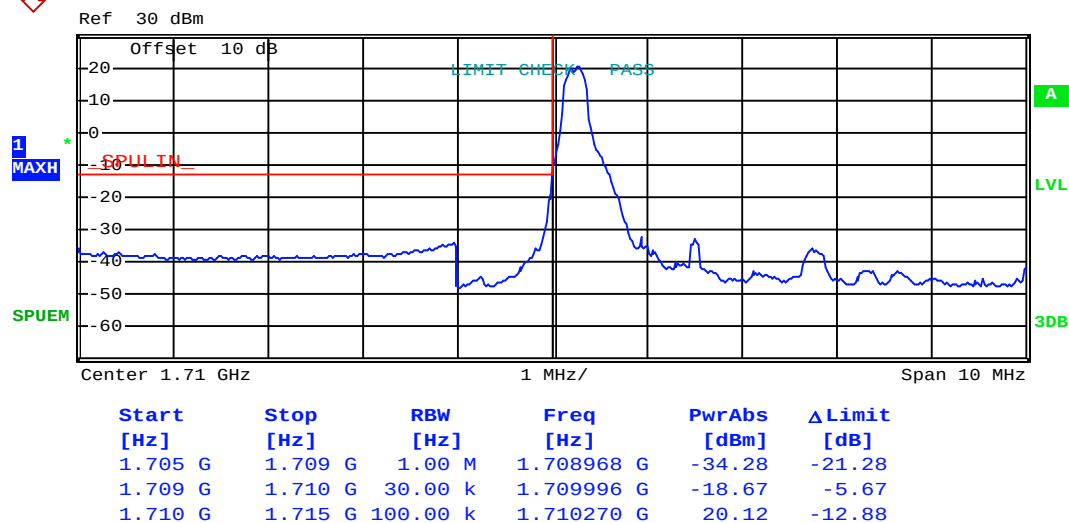
Lowest channel



Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)

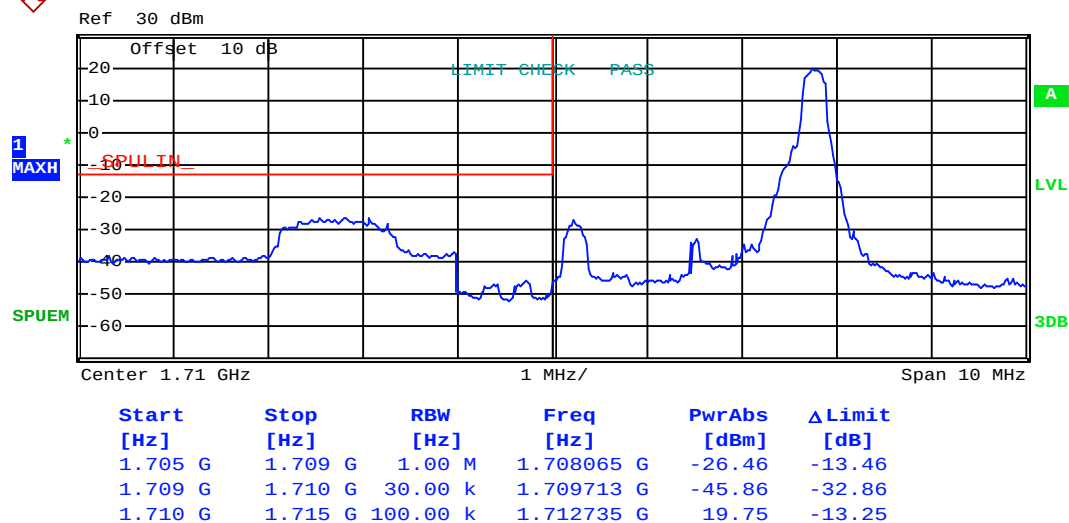


Lowest channel

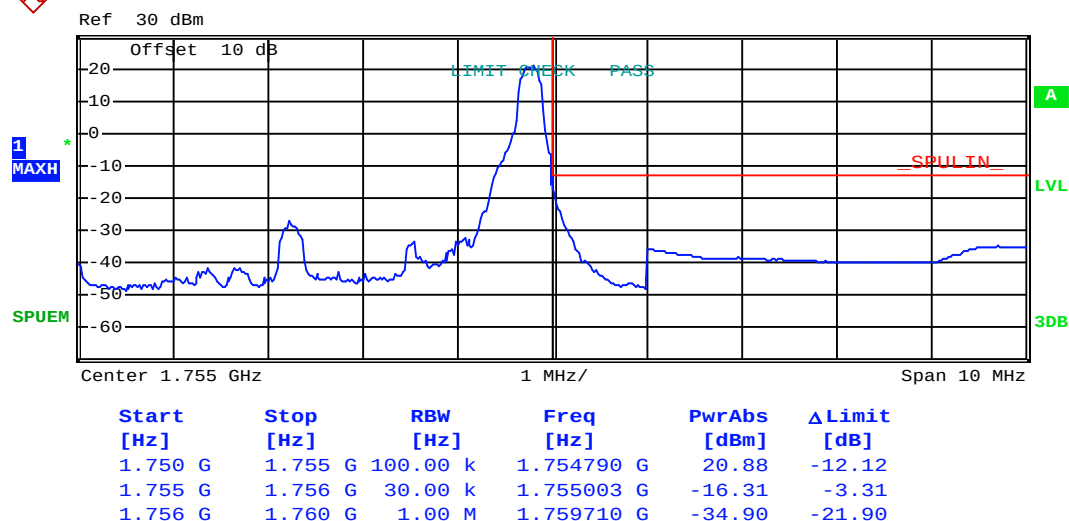


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 14)
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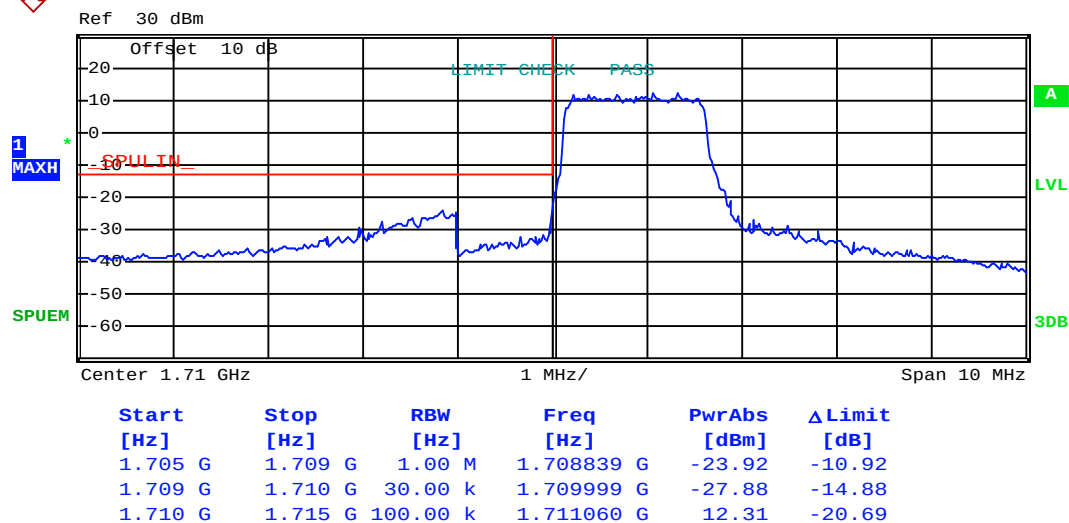
Lowest channel



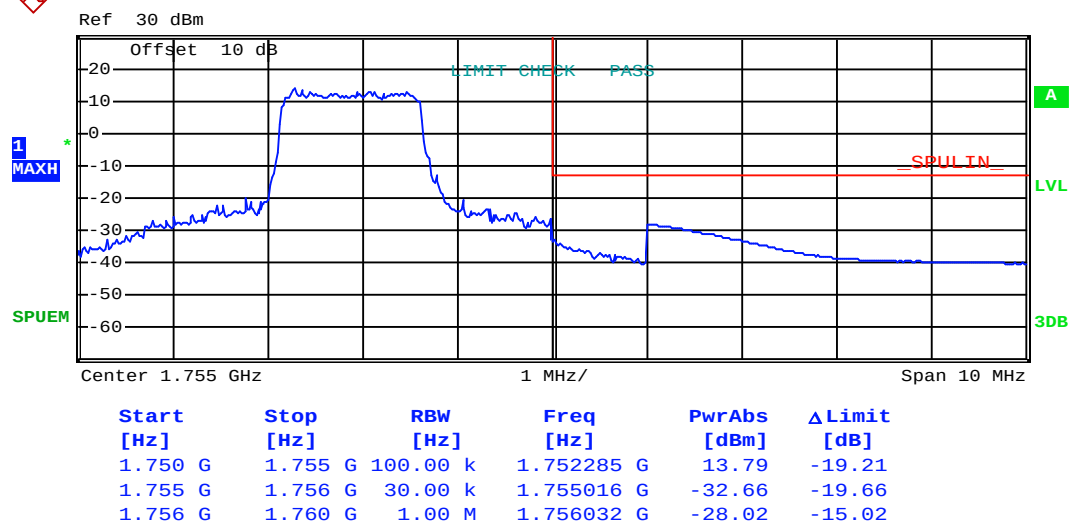
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 8 & RB Offset 0)

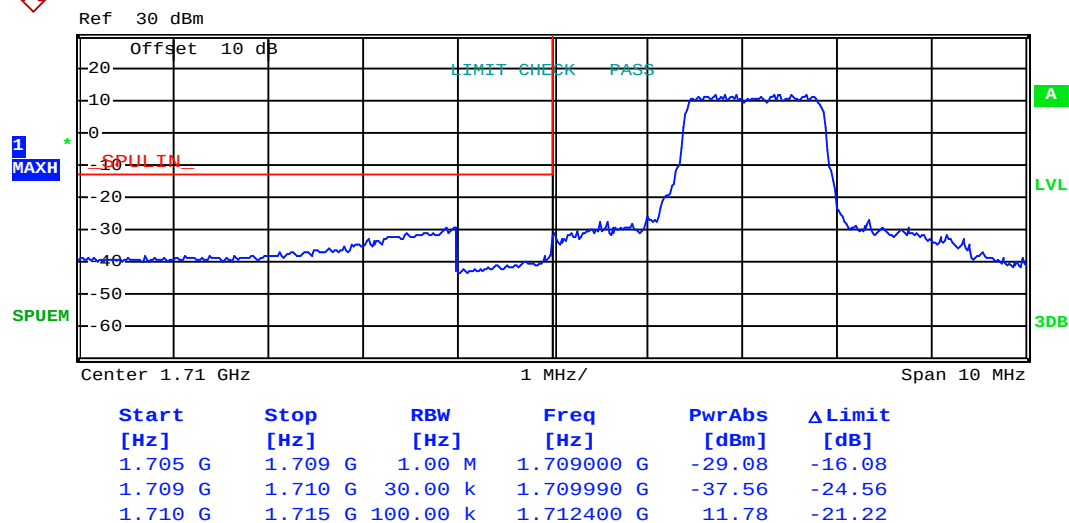


Lowest channel

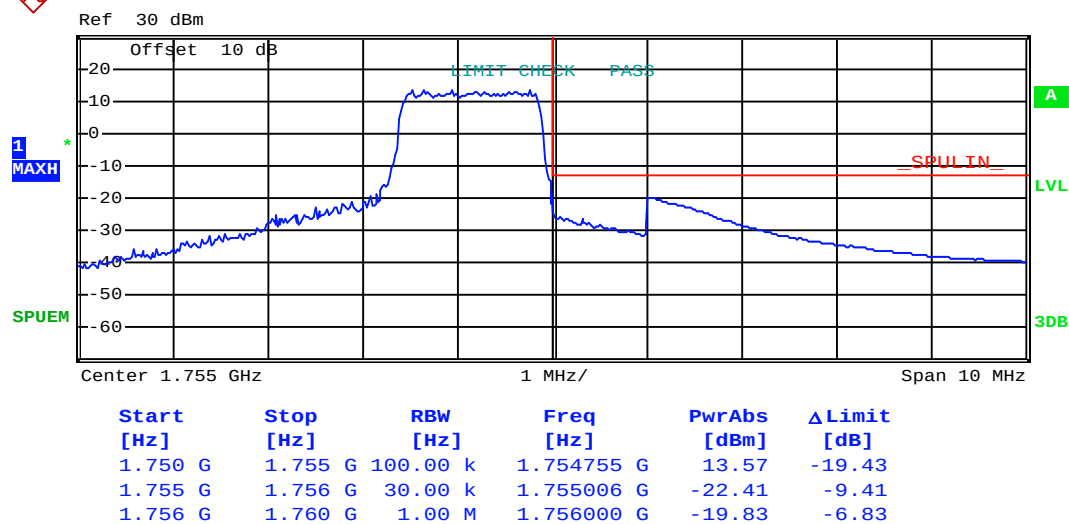


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 8 & RB Offset 7)
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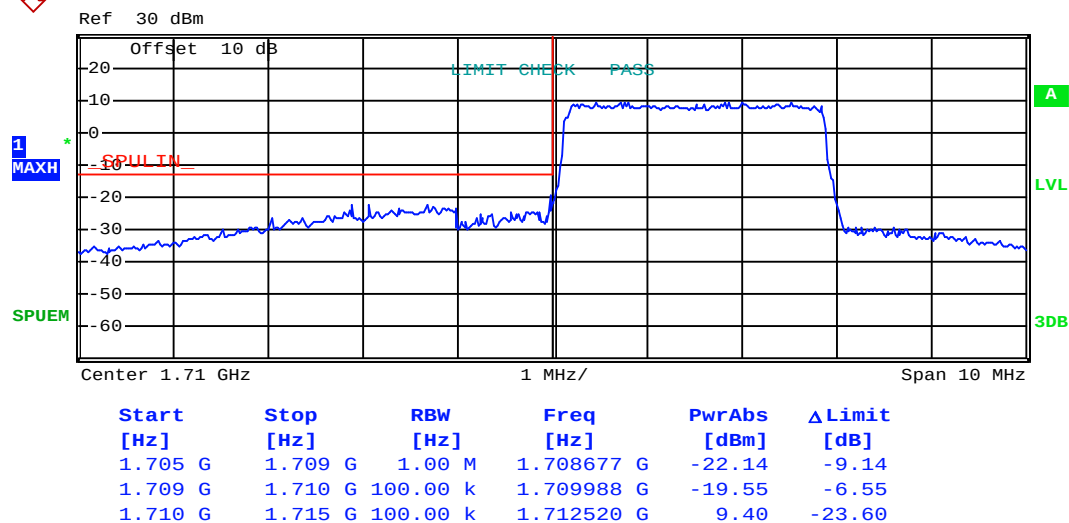


Lowest channel

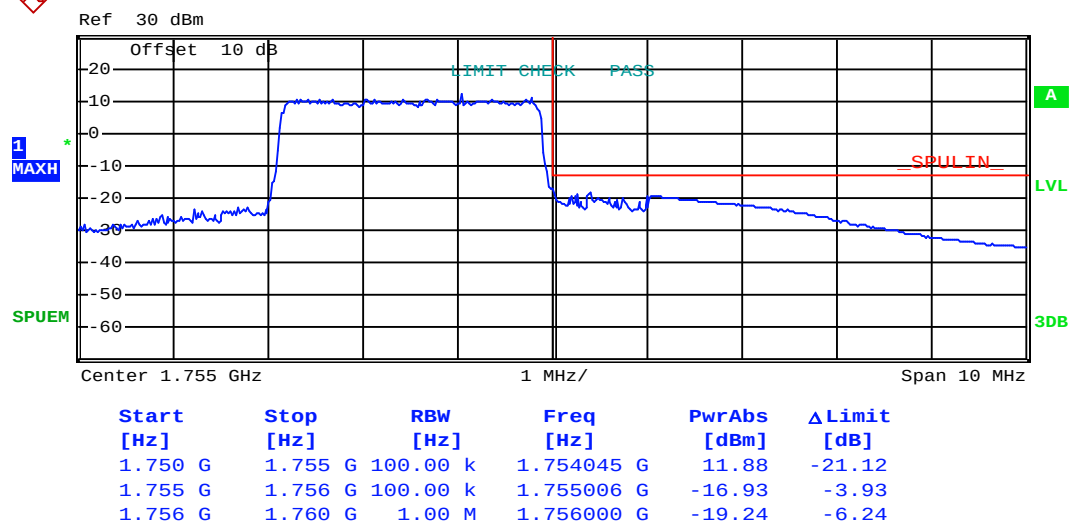


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 15 & RB Offset 0)
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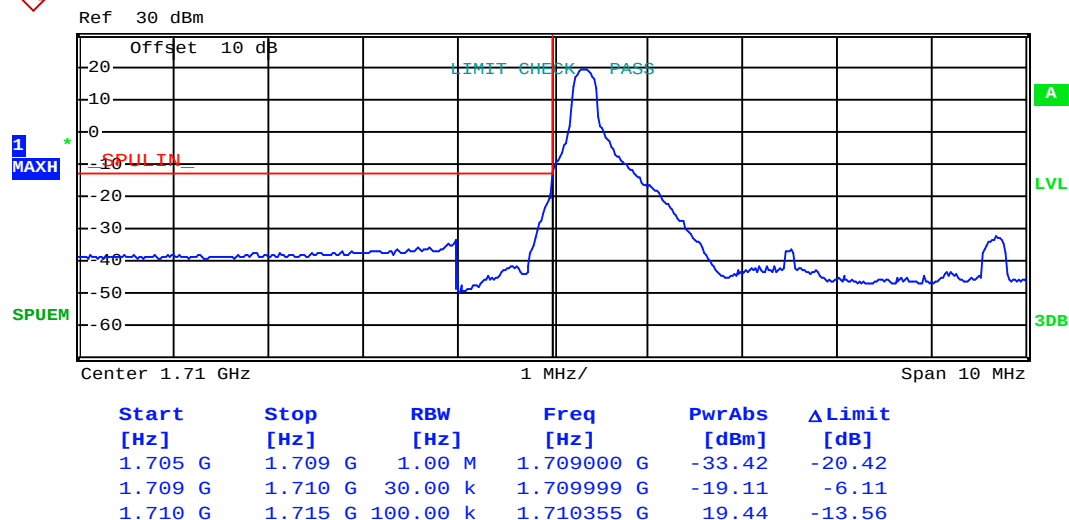
Lowest channel



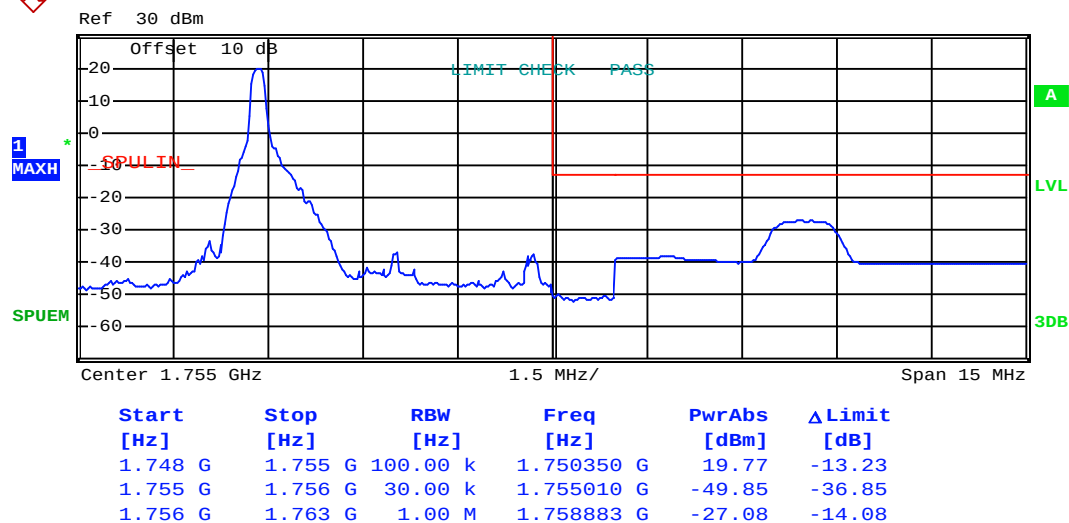
Highest channel

5MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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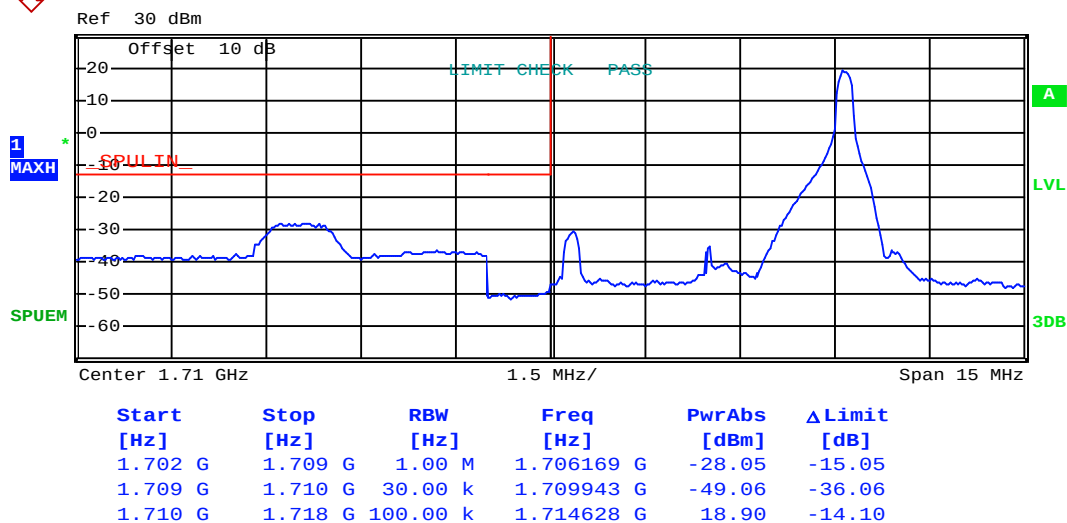
Lowest channel



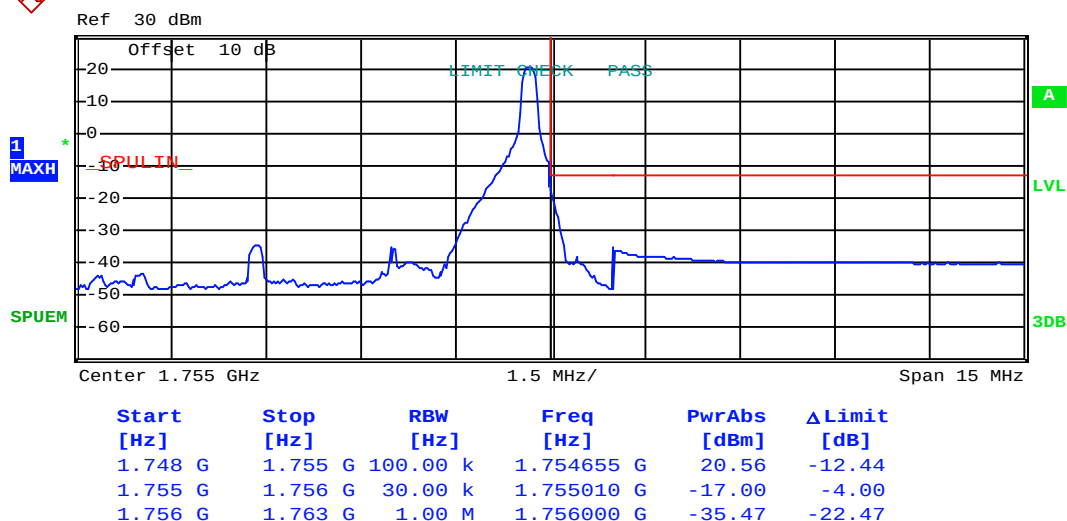
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 24)



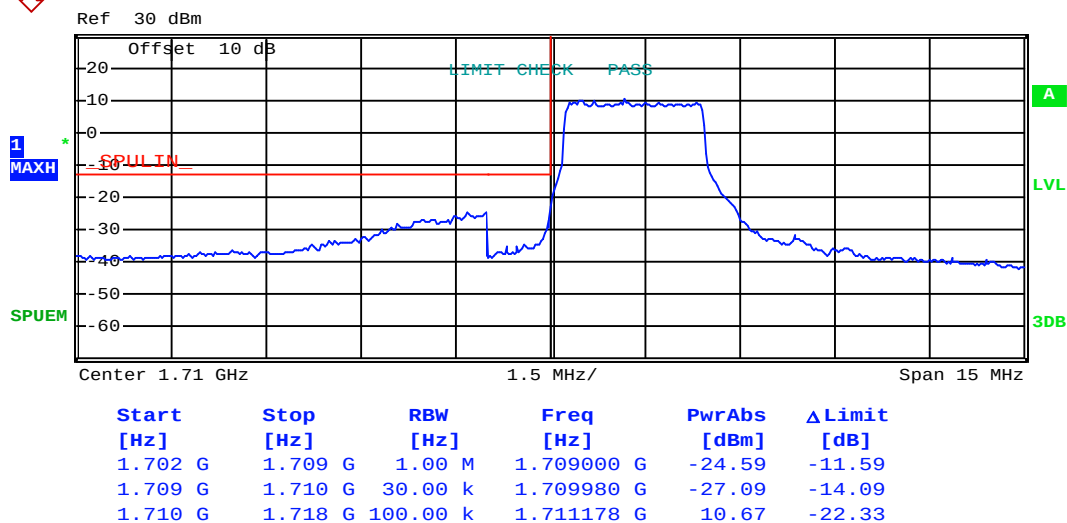
Lowest channel



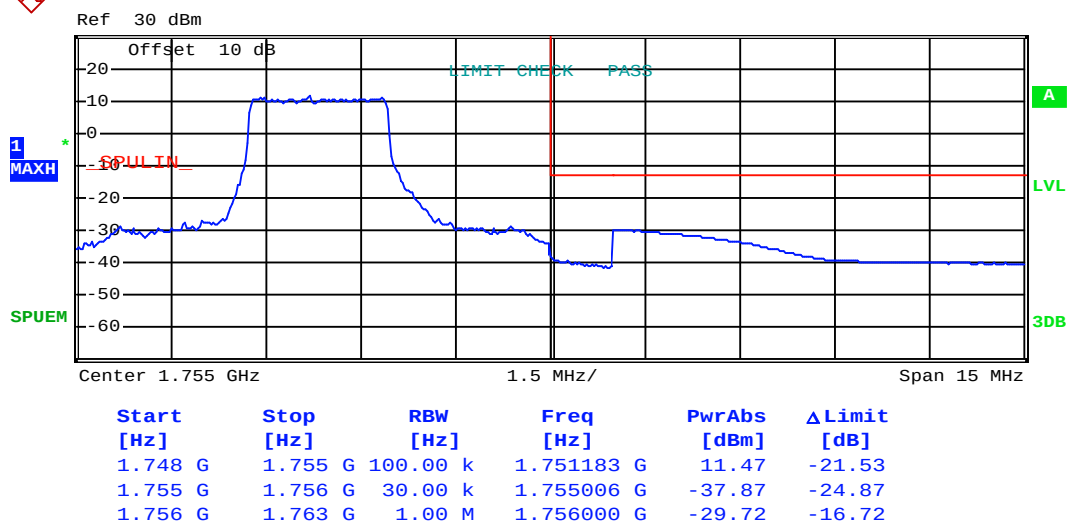
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 12 & RB Offset 0)



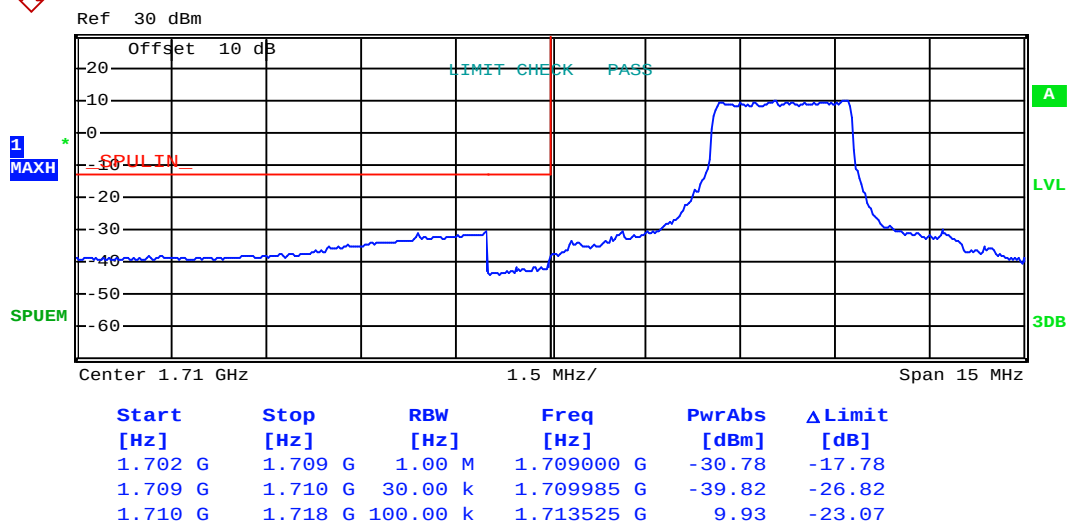
Lowest channel



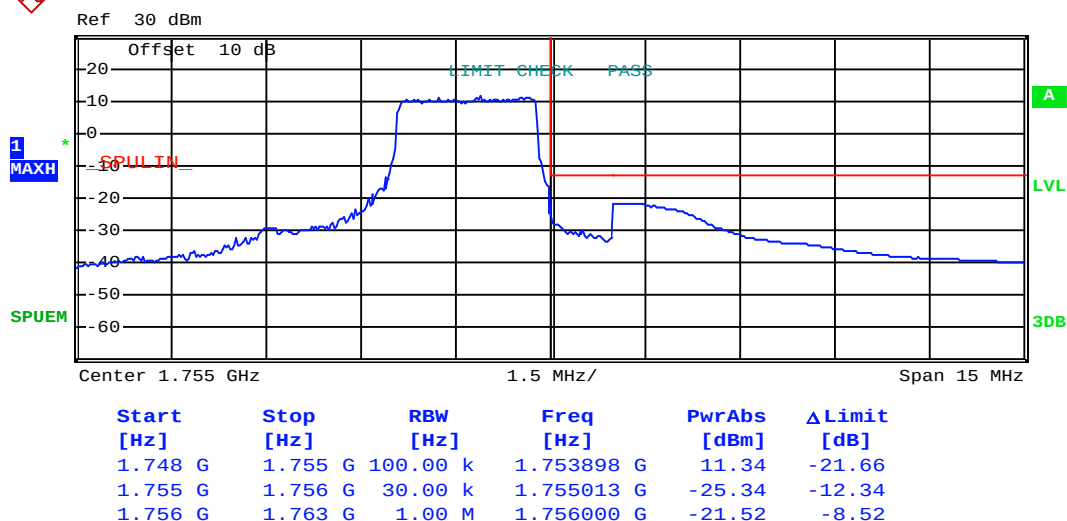
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 12 & RB Offset 11)



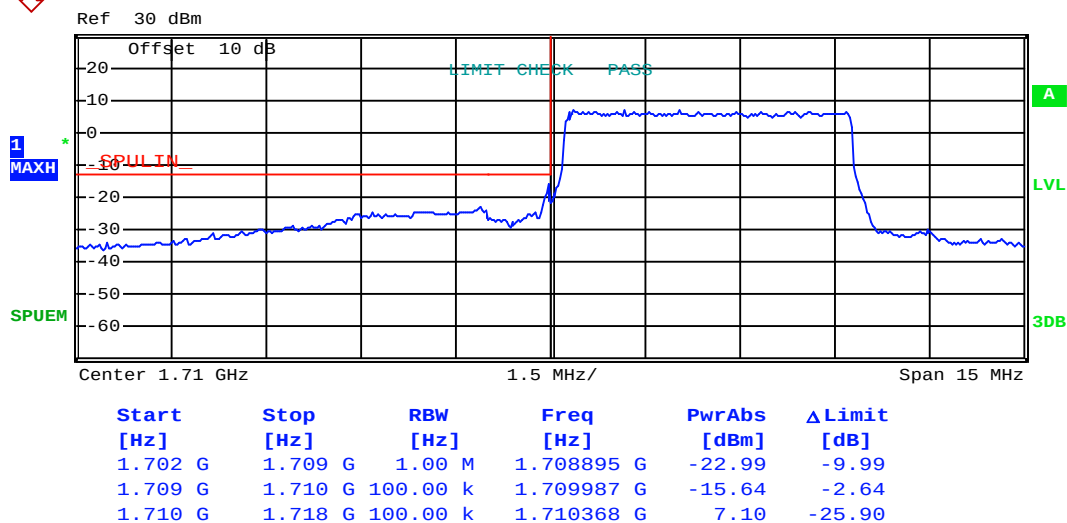
Lowest channel



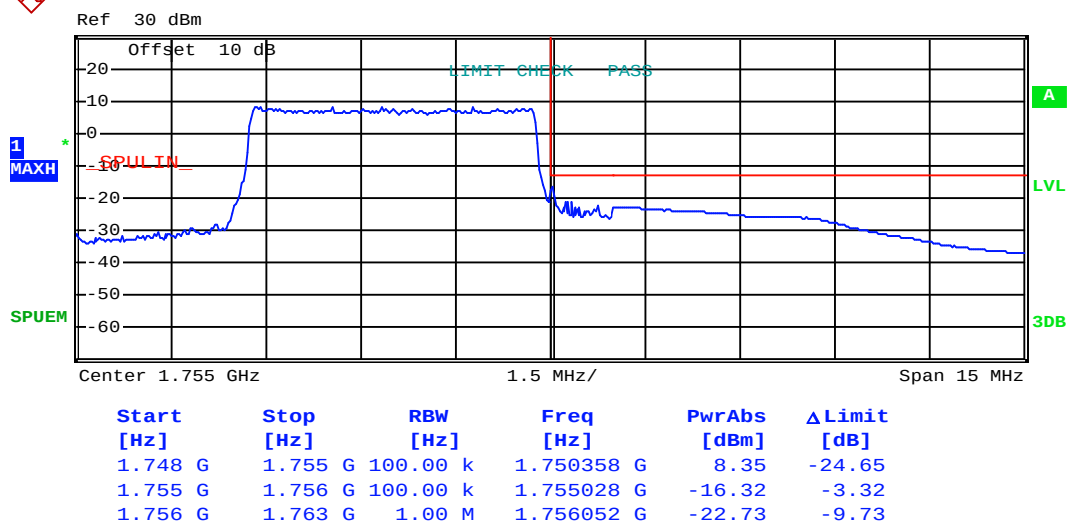
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 0)



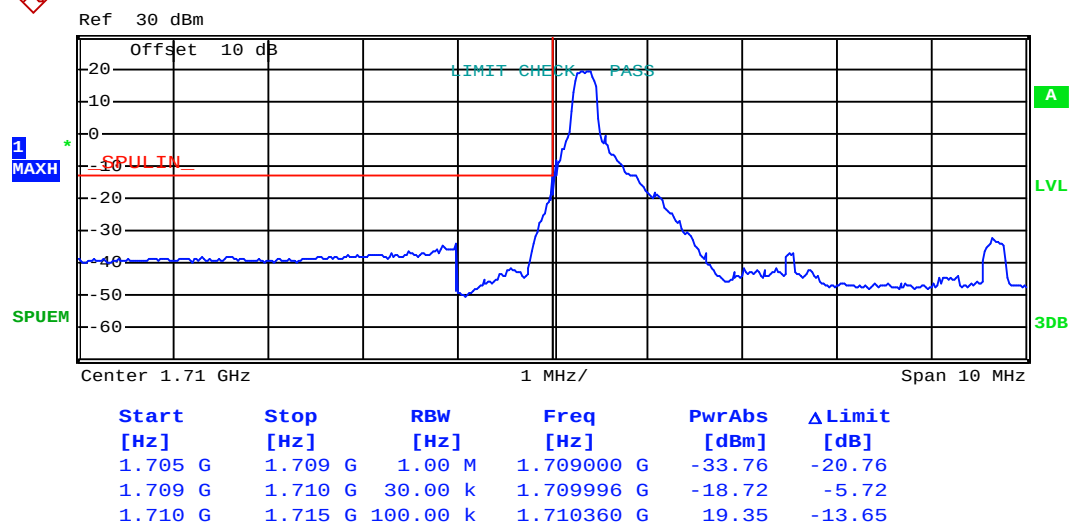
Lowest channel



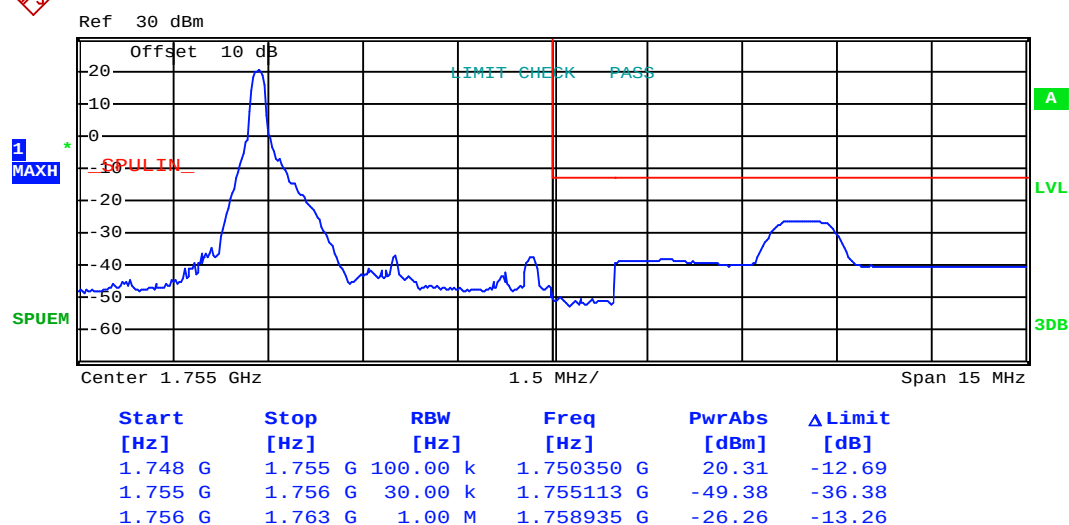
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 0)



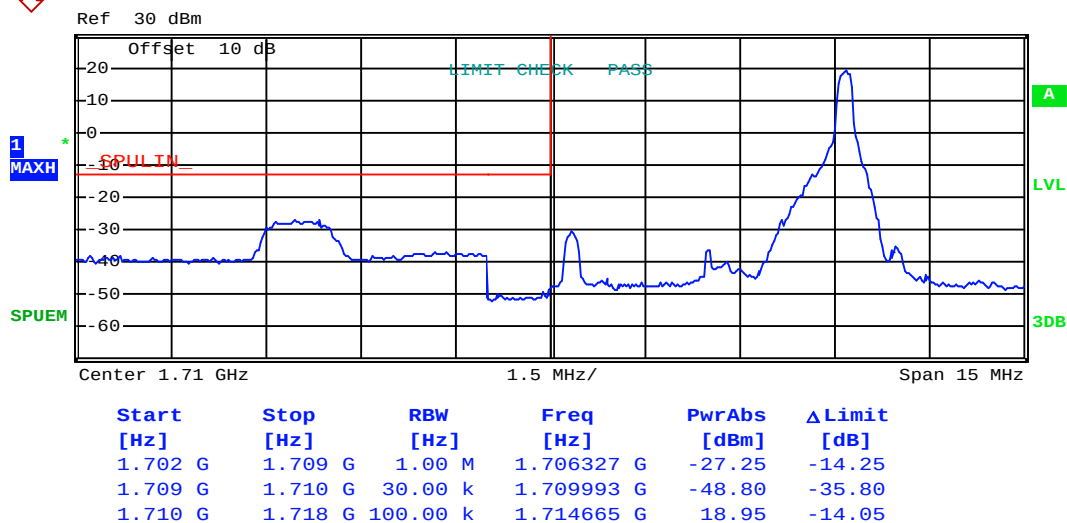
Lowest channel



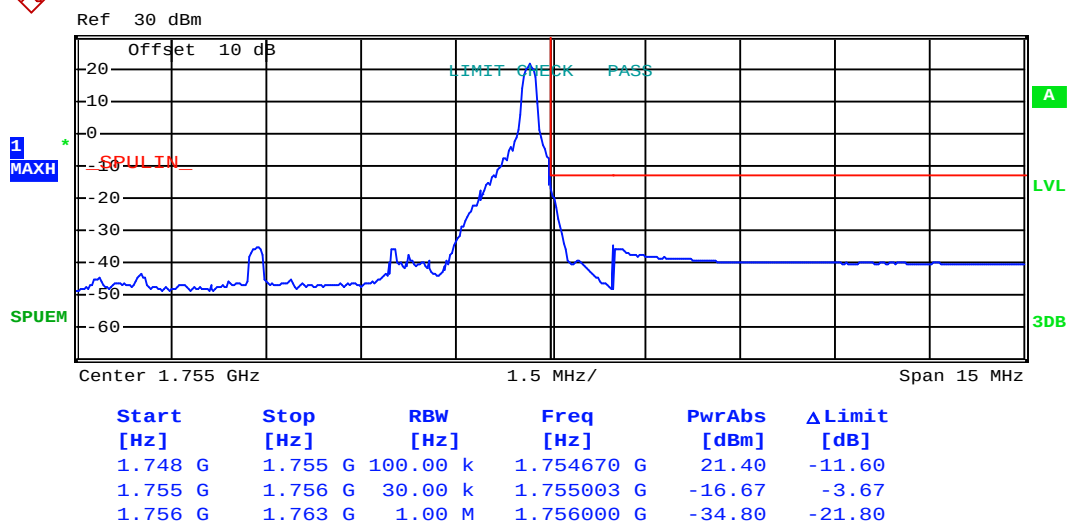
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 24)



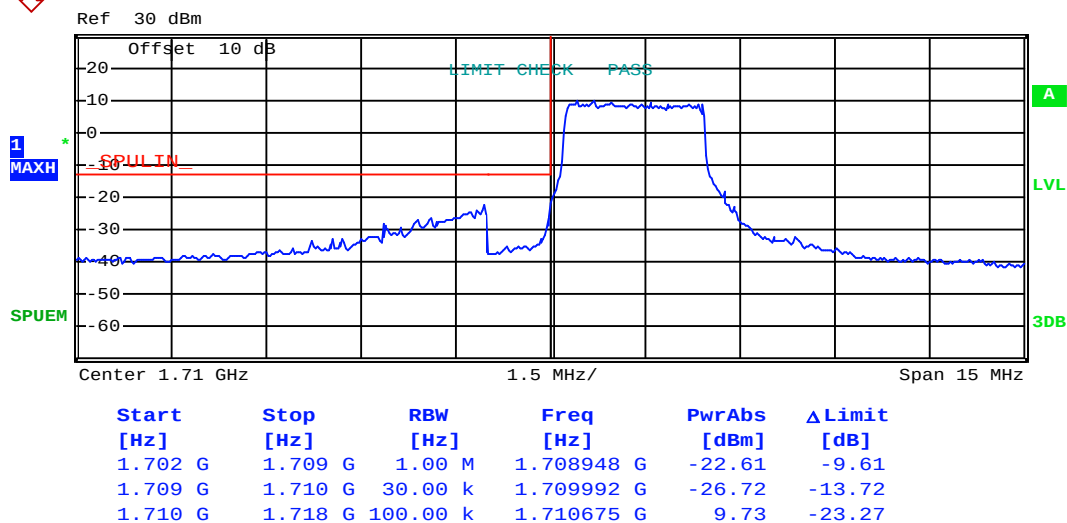
Lowest channel



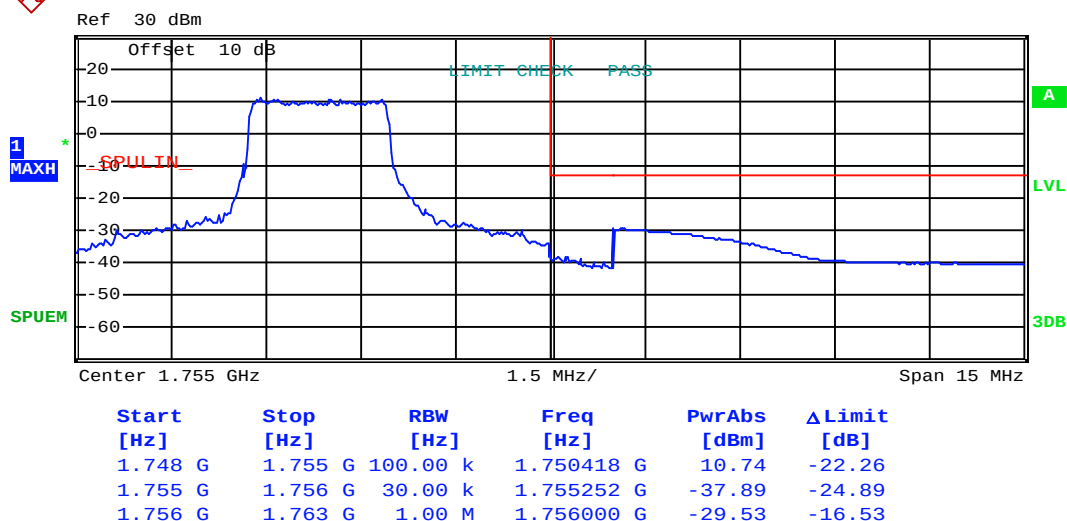
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 12 & RB Offset 0)



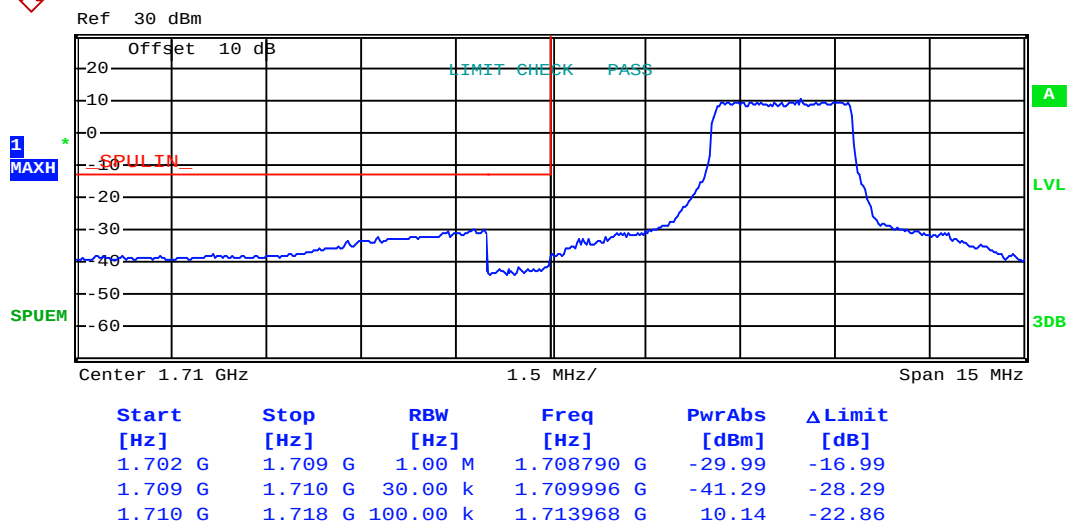
Lowest channel



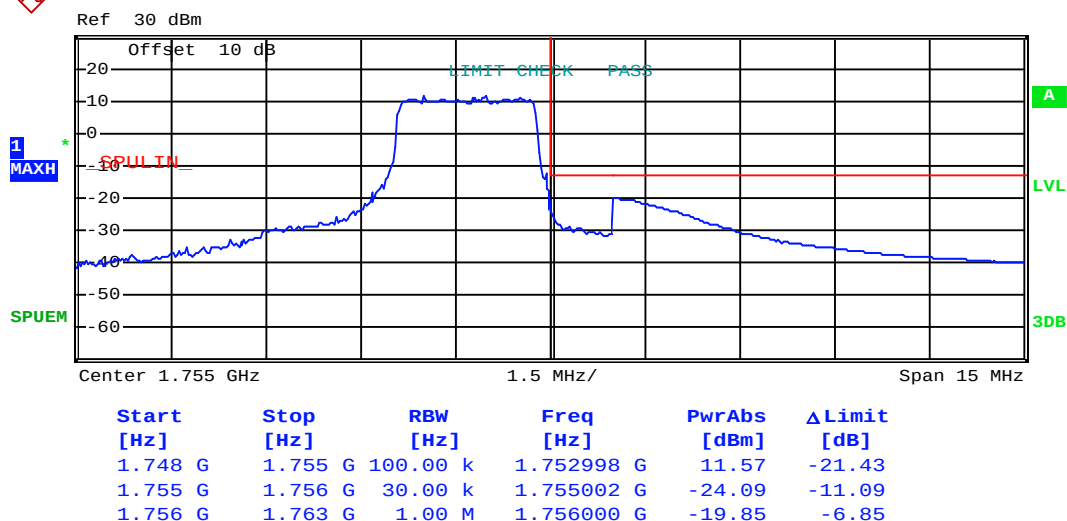
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 12 & RB Offset 11)



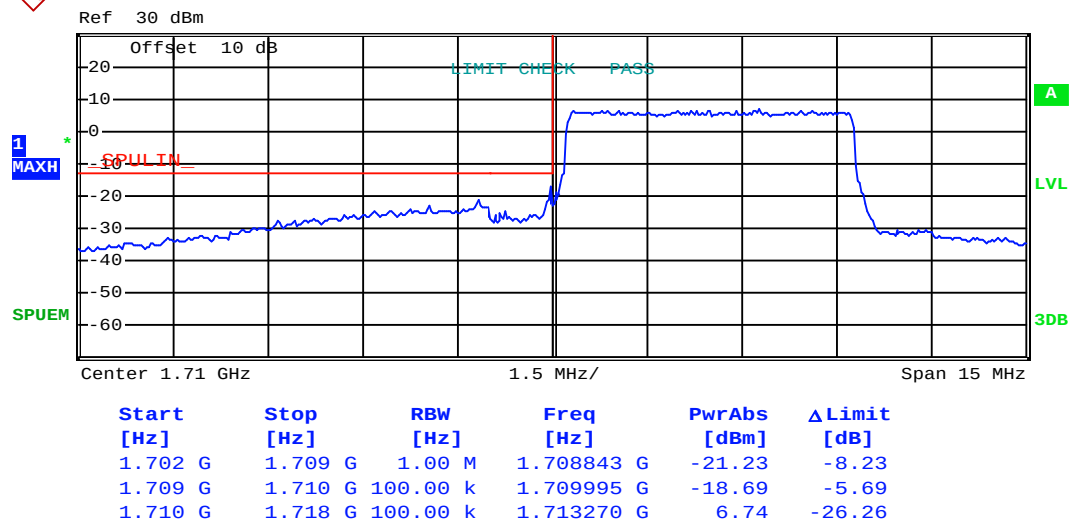
Lowest channel



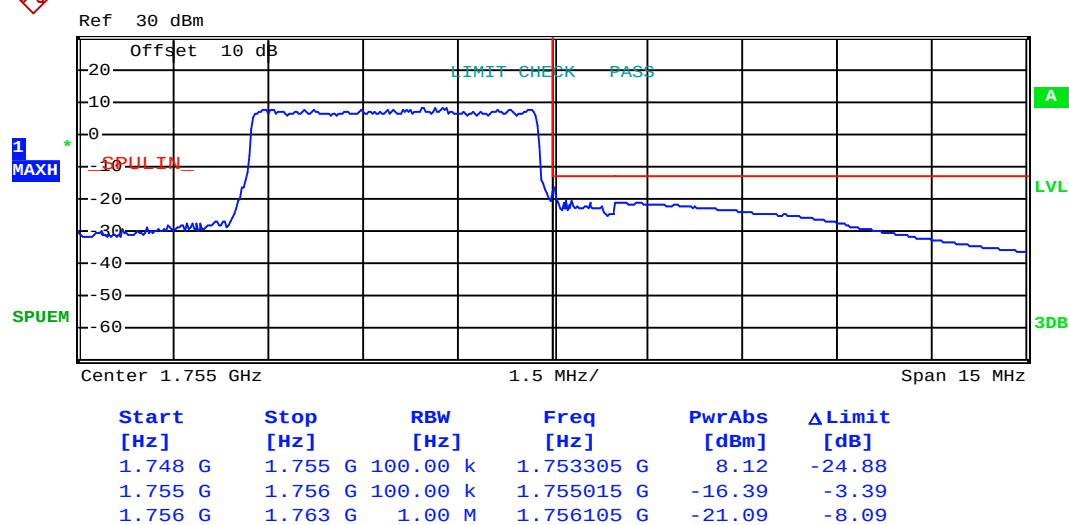
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 25 & RB Offset 0)



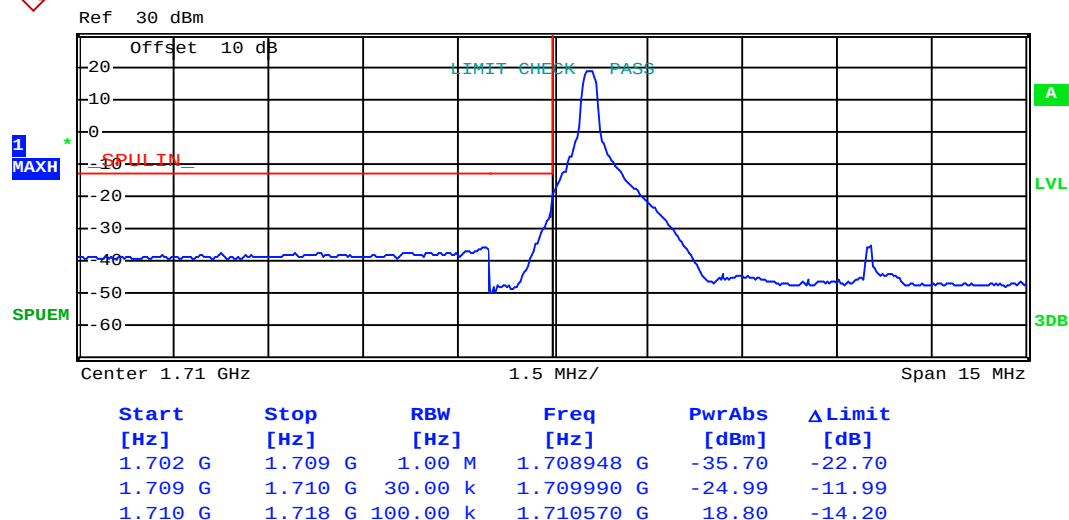
Lowest channel



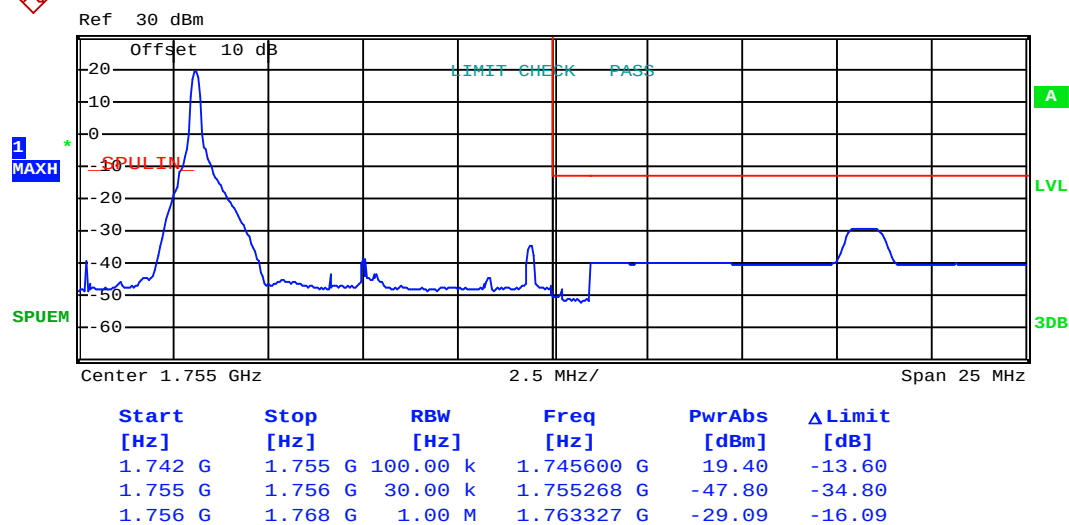
Highest channel

10MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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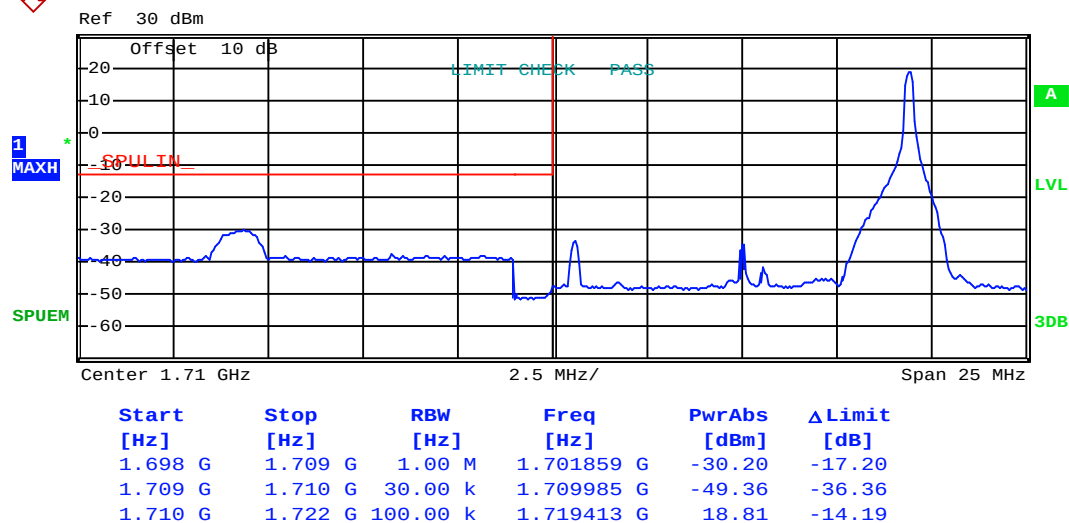


Lowest channel

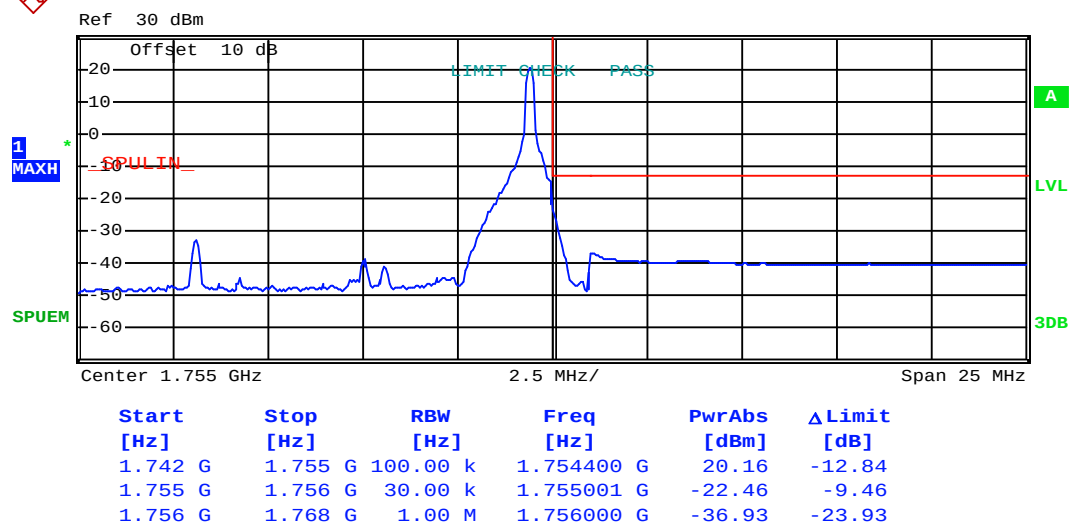


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 49)
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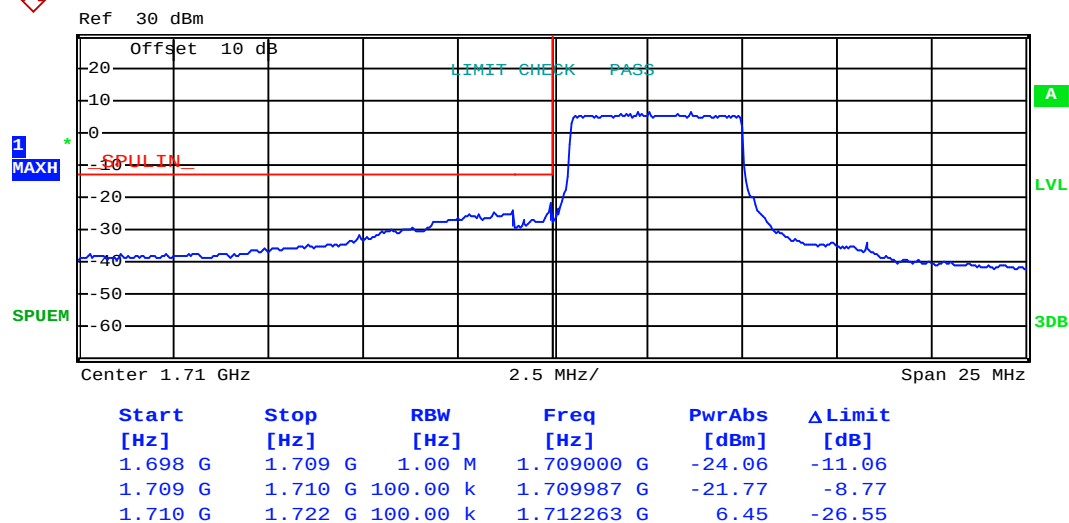
Lowest channel



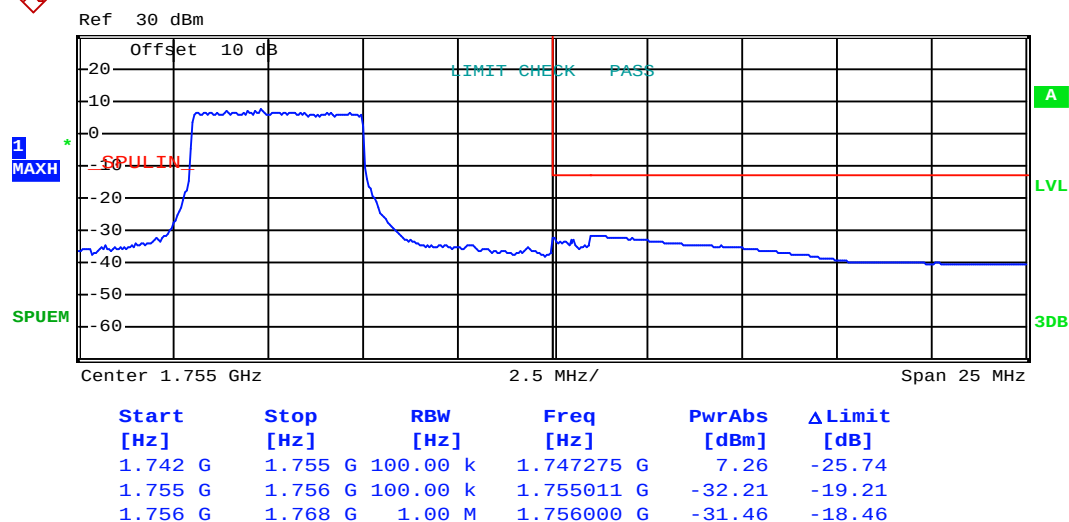
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 0)



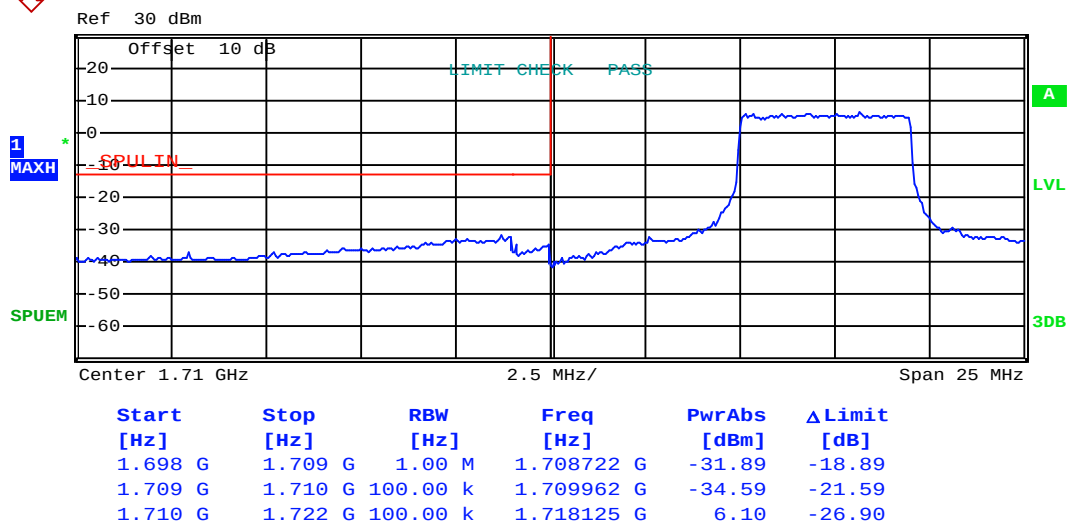
Lowest channel



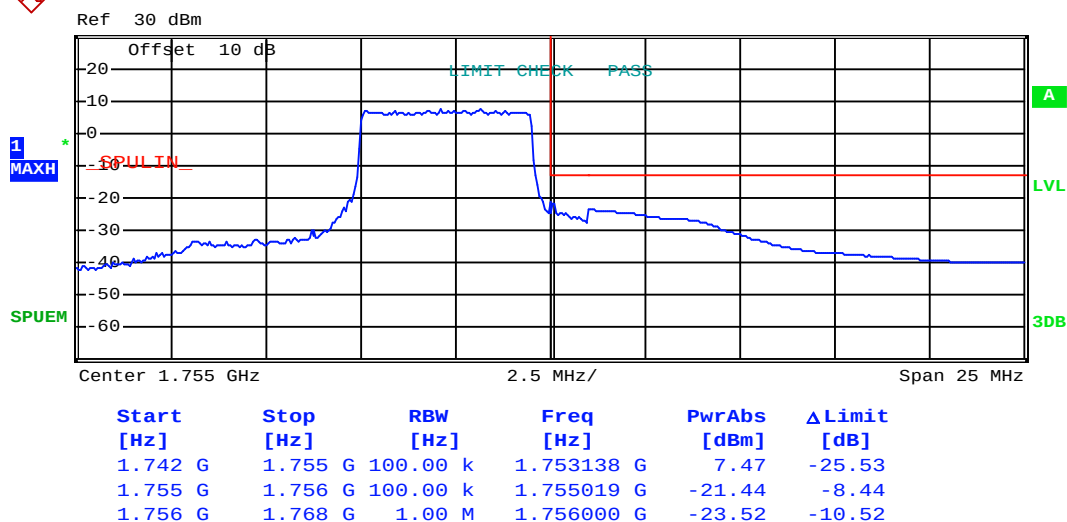
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 25 & RB Offset 24)

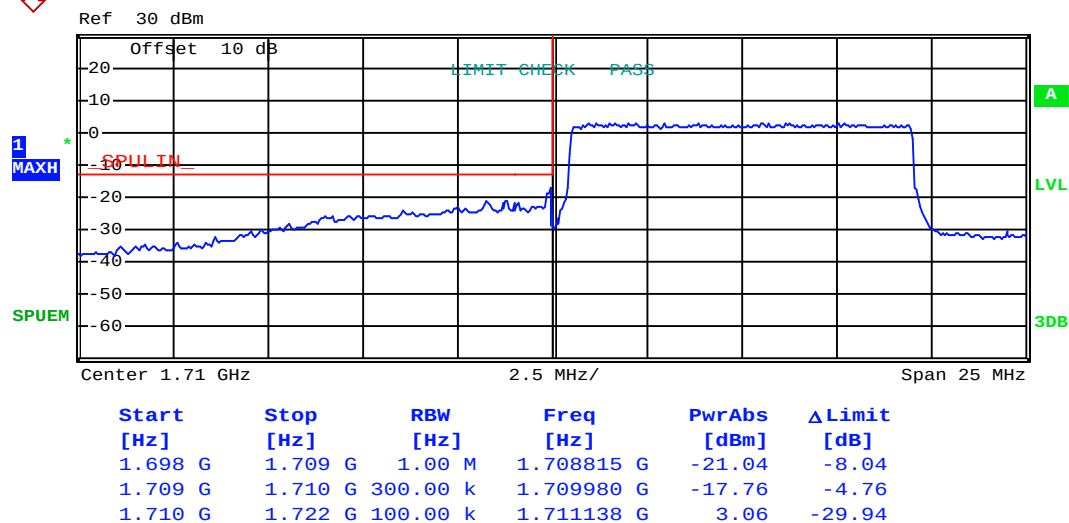


Lowest channel

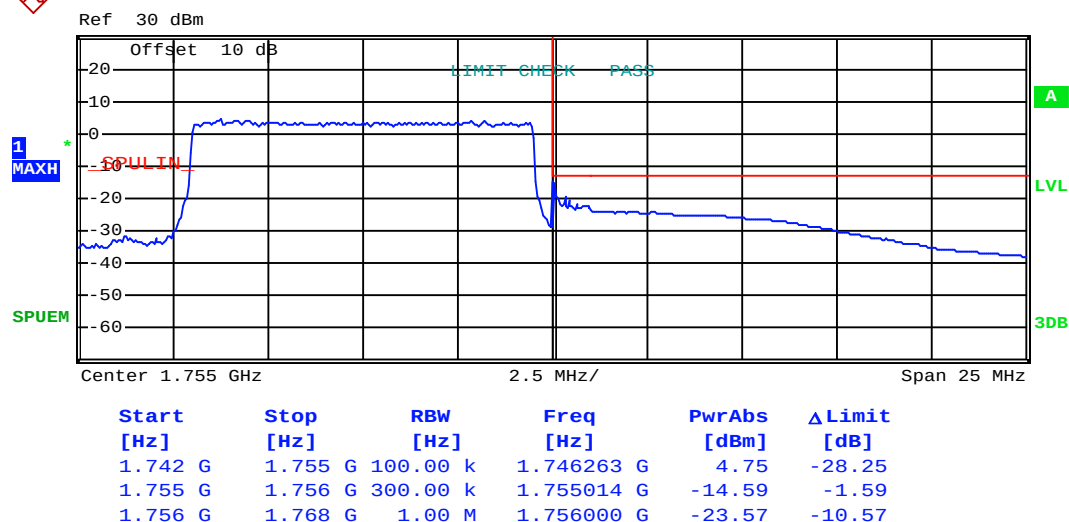


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 0)
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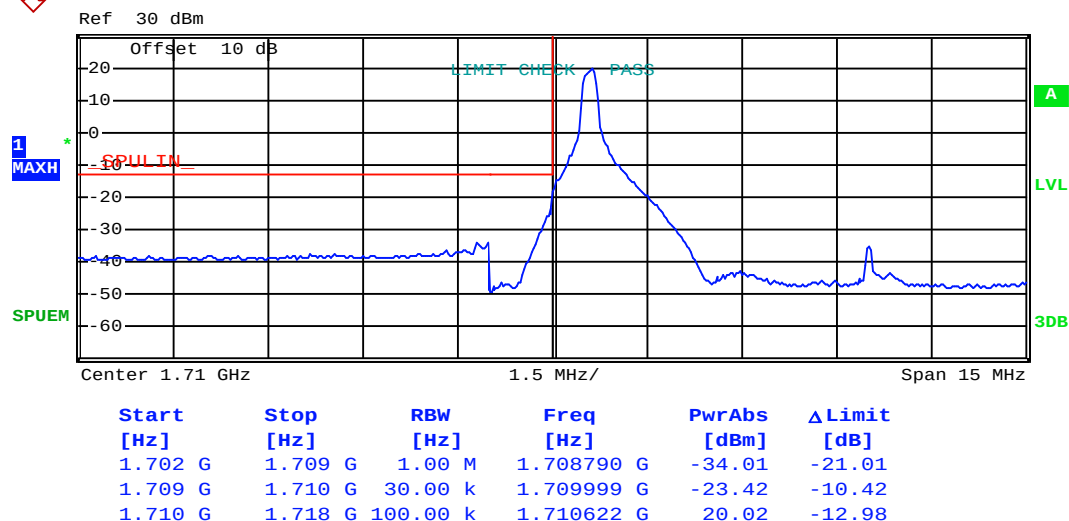


Lowest channel

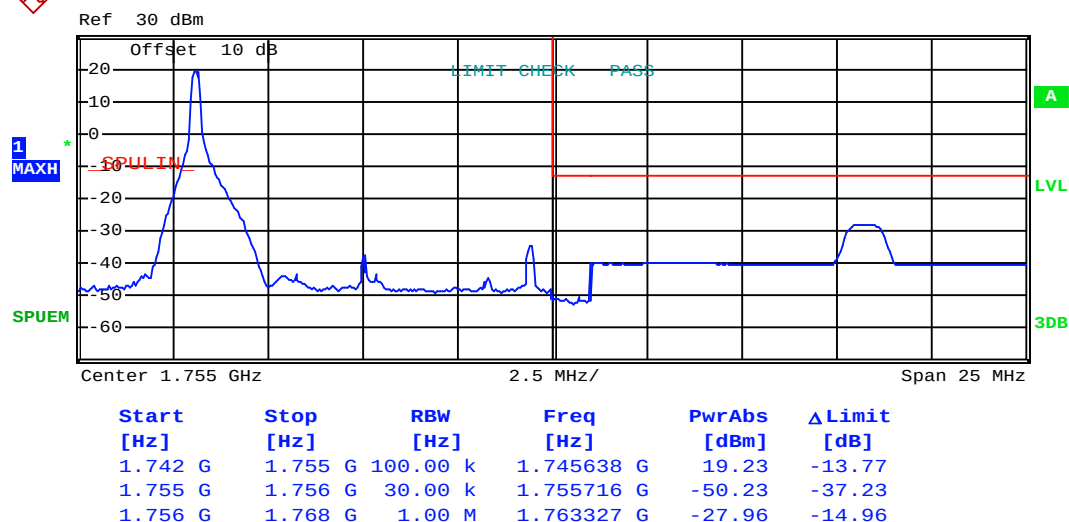


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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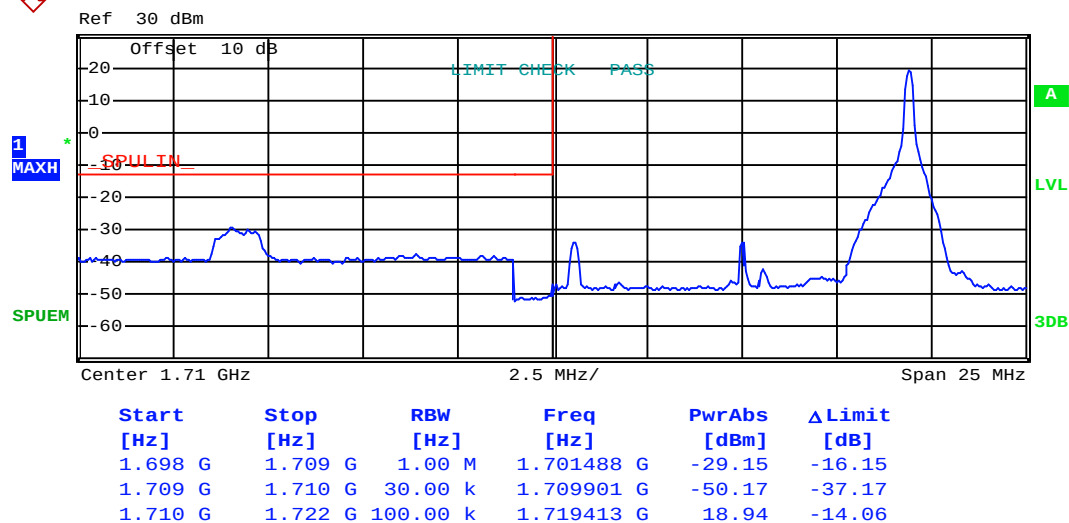


Lowest channel

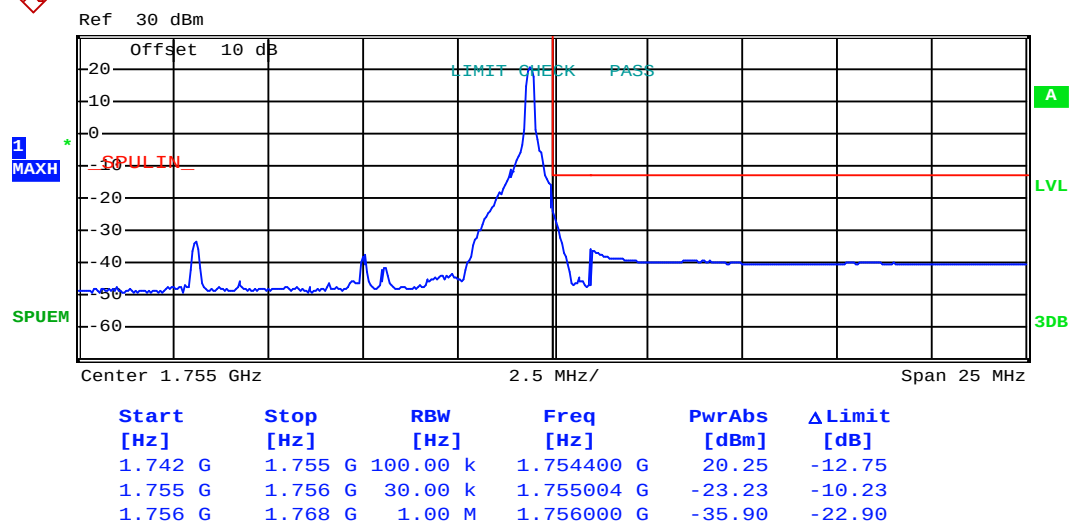


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 49)
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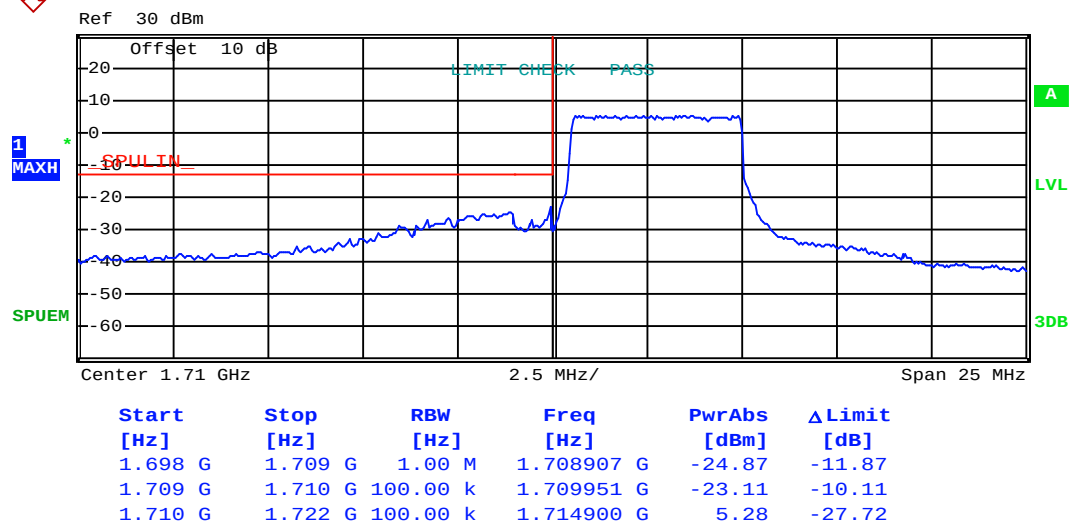
Lowest channel



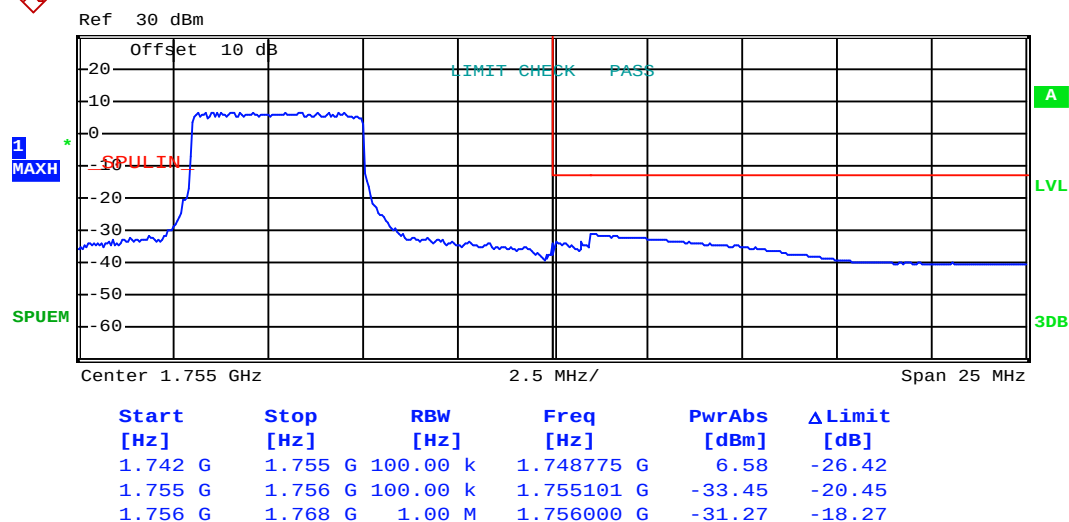
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 25 & RB Offset 0)

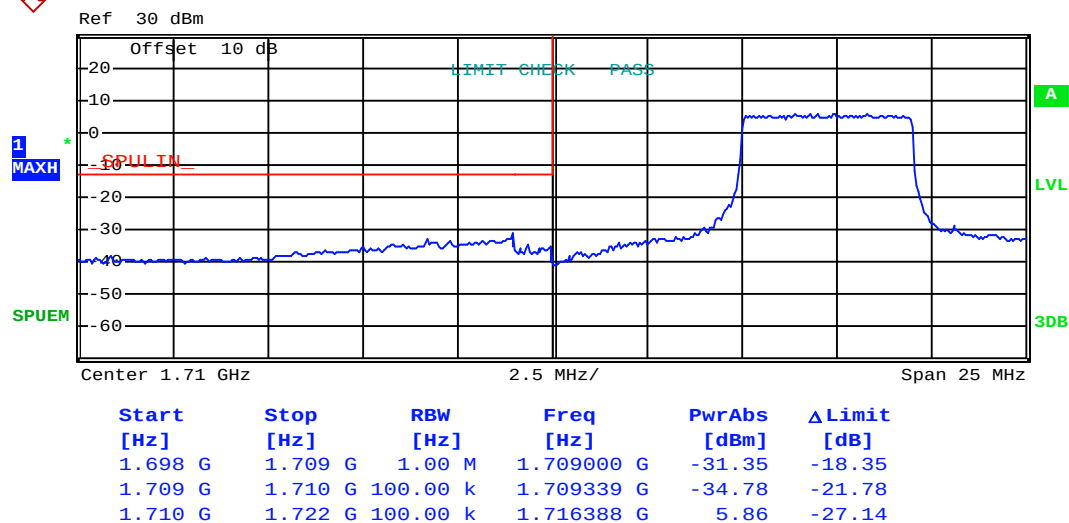


Lowest channel

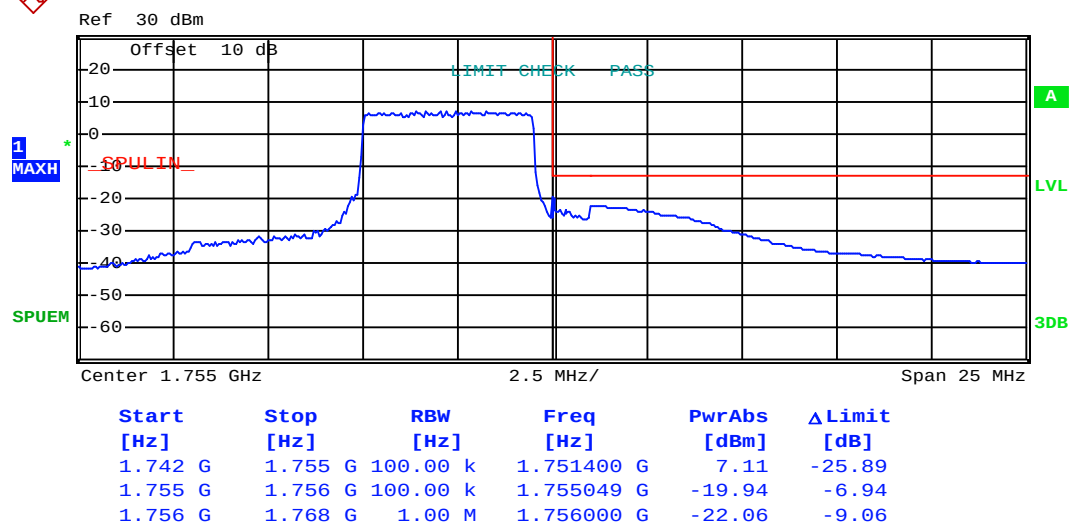


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 25 & RB Offset 24)
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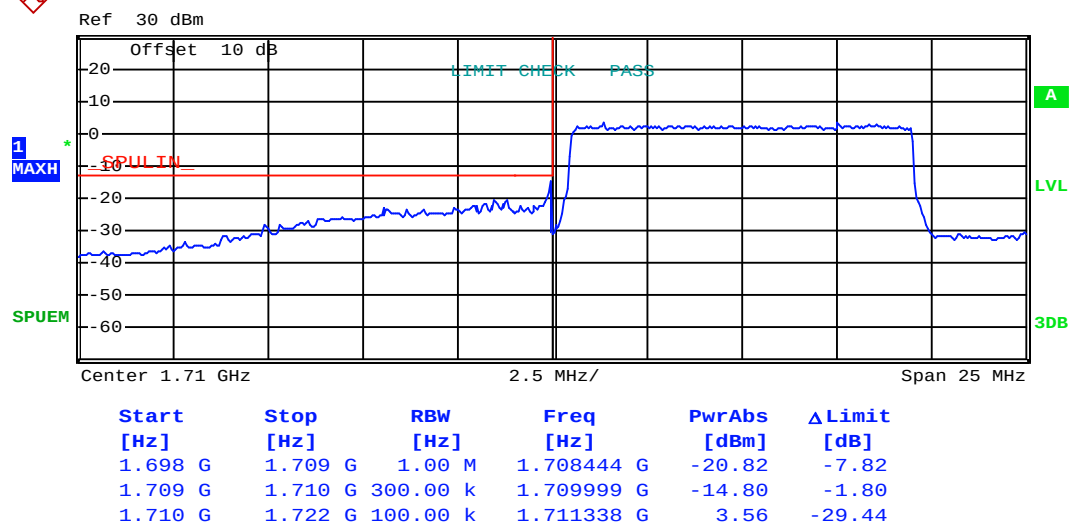
Lowest channel



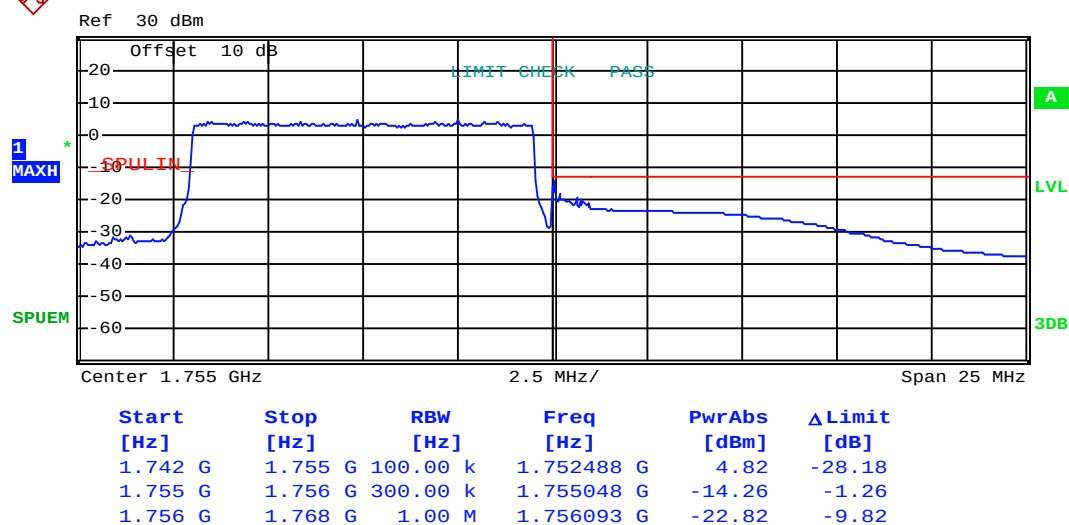
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 50 & RB Offset 0)



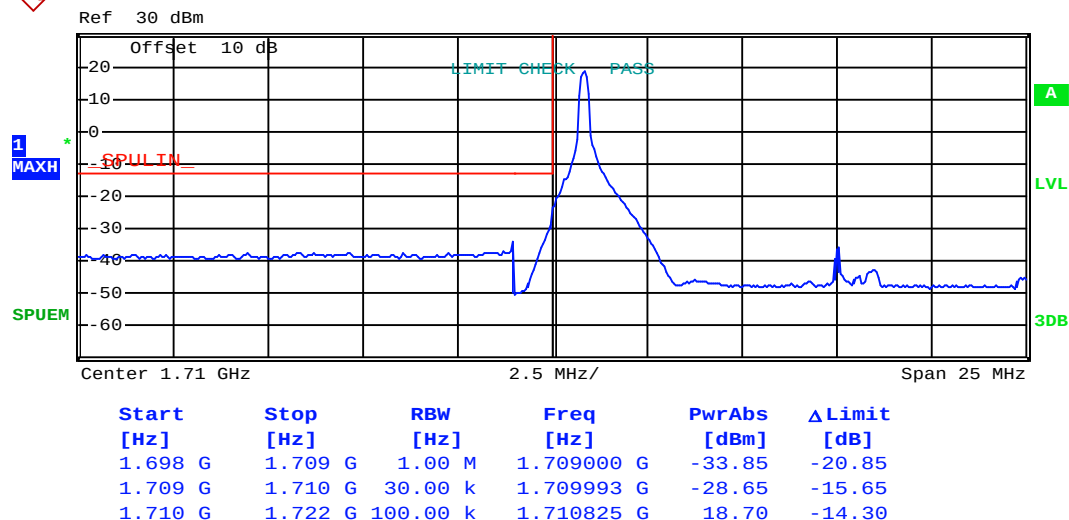
Lowest channel



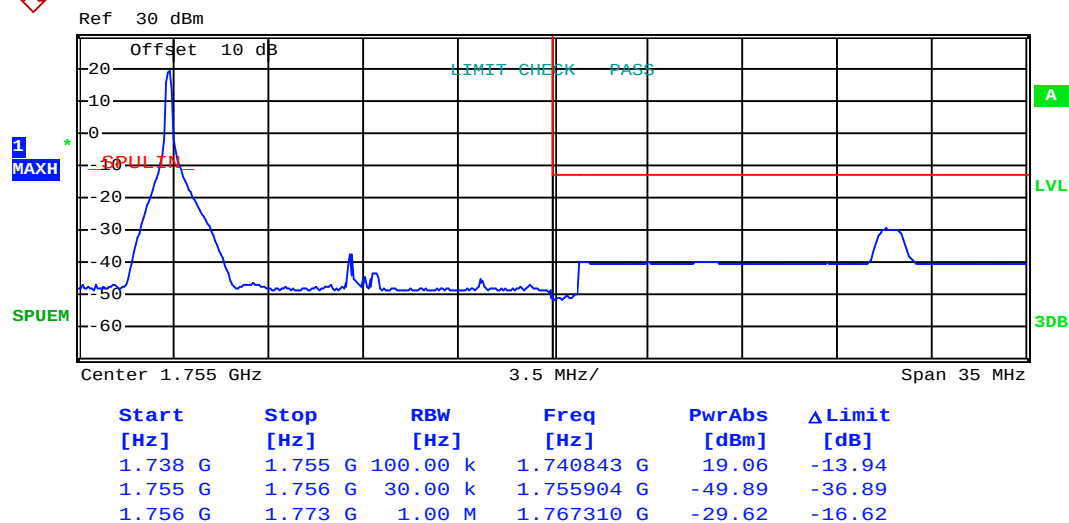
Highest channel

15MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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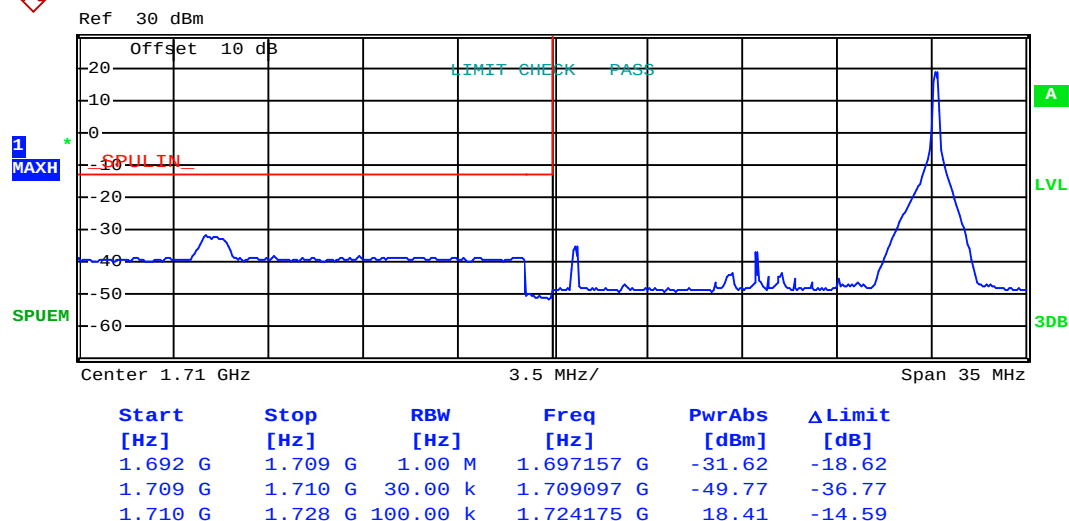


Lowest channel

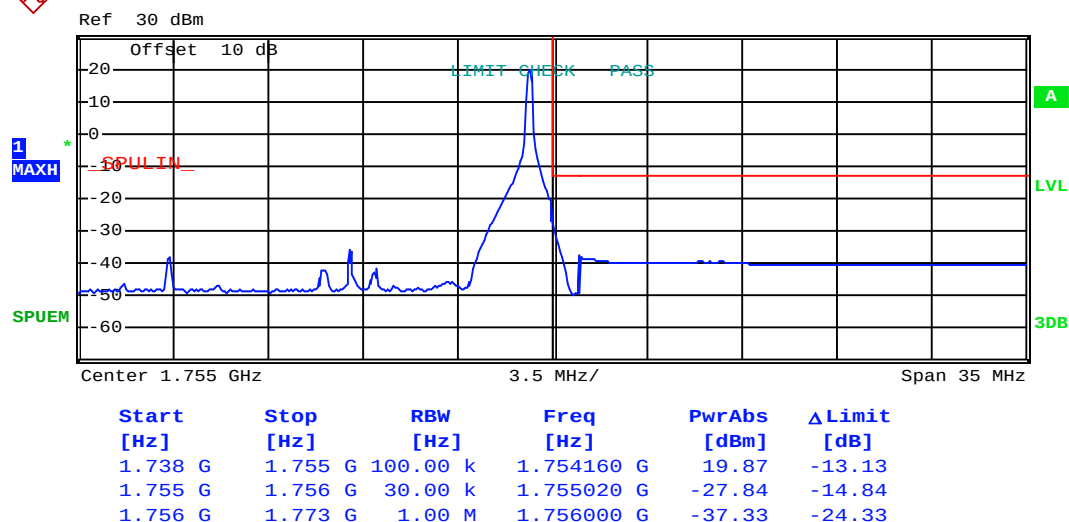


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 74)
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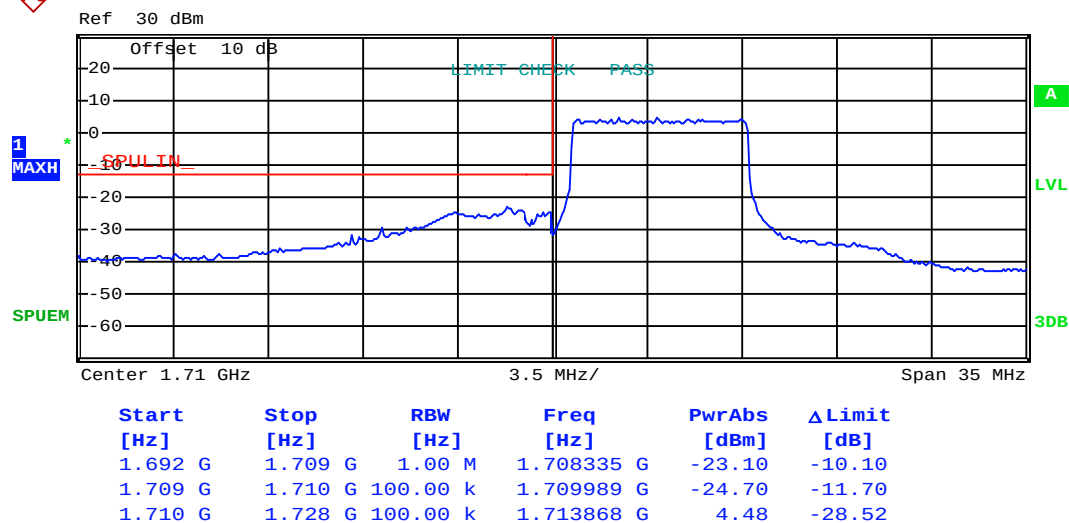


Lowest channel

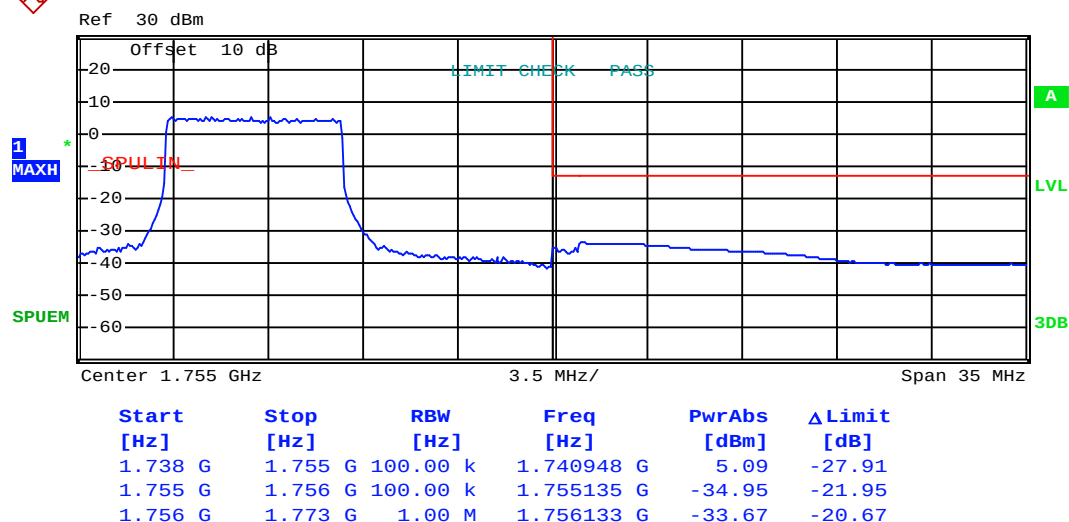


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 36 & RB Offset 0)
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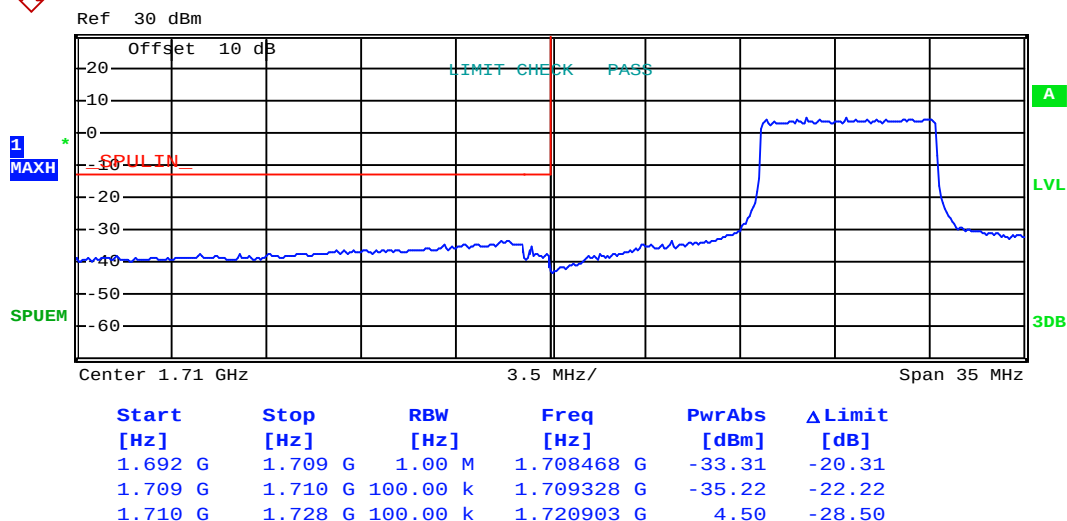
Lowest channel



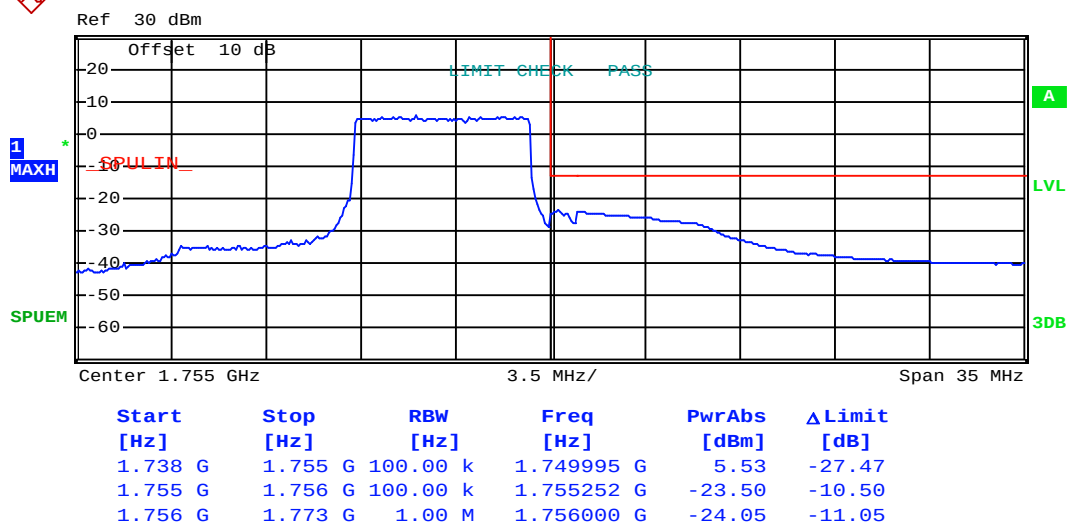
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 36 & RB Offset 37)



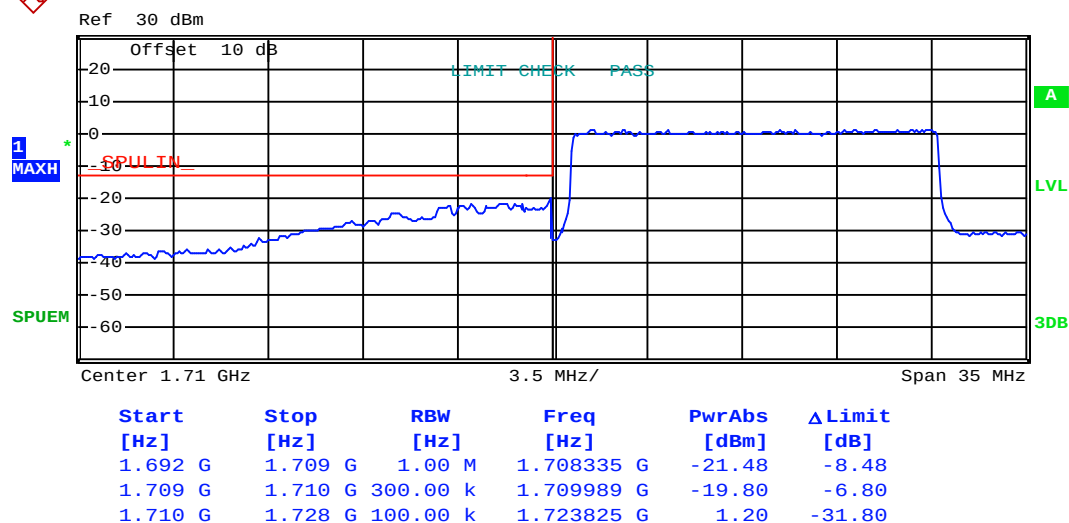
Lowest channel



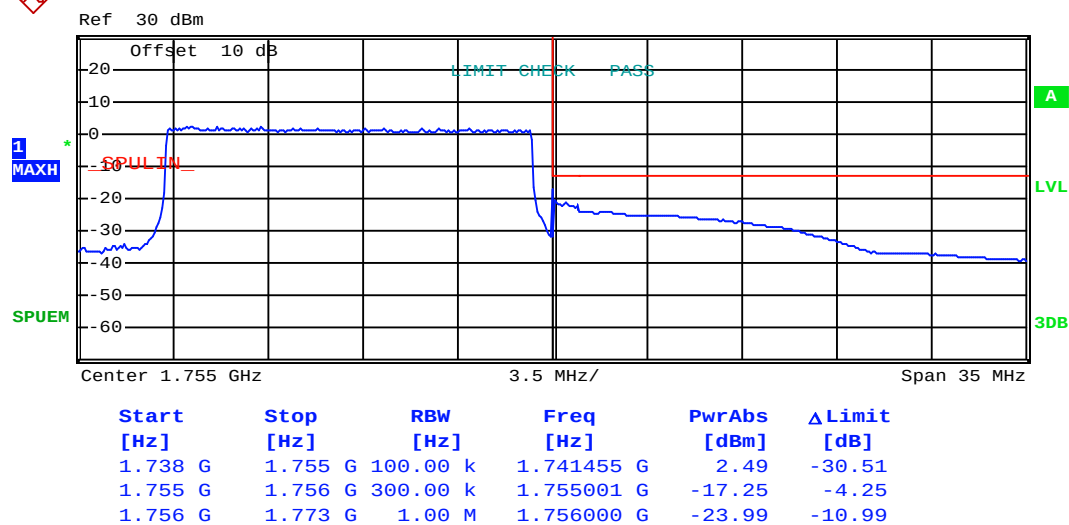
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 75 & RB Offset 0)

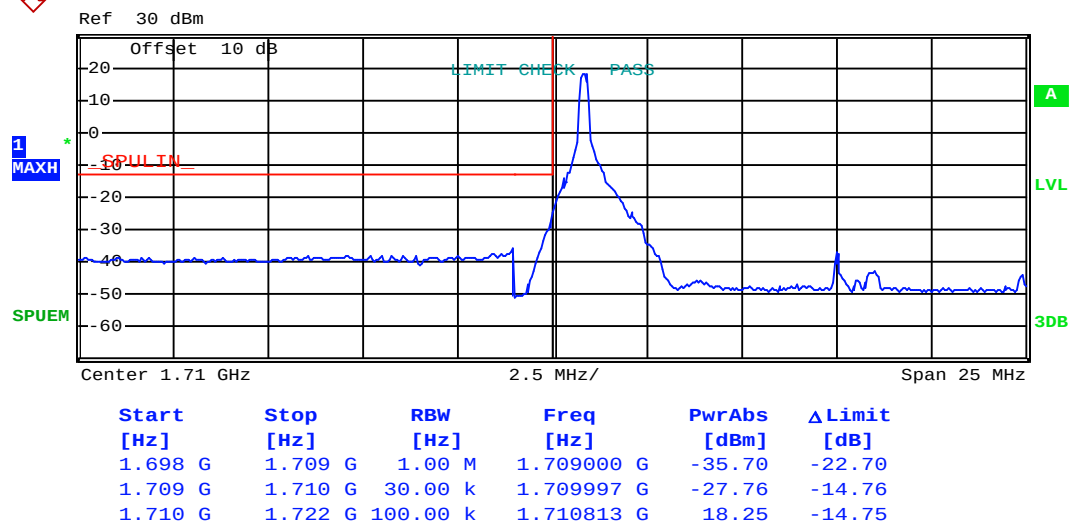


Lowest channel

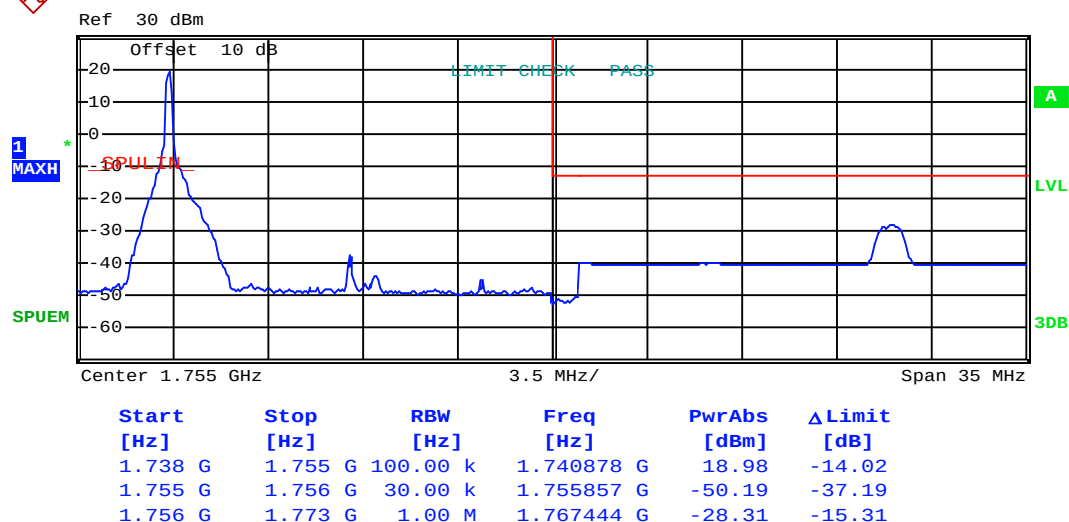


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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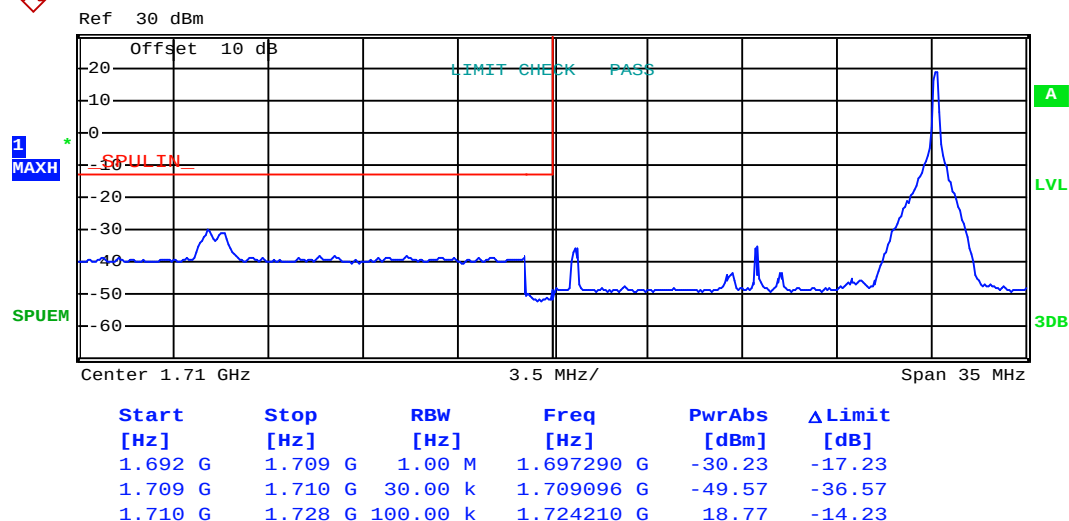


Lowest channel

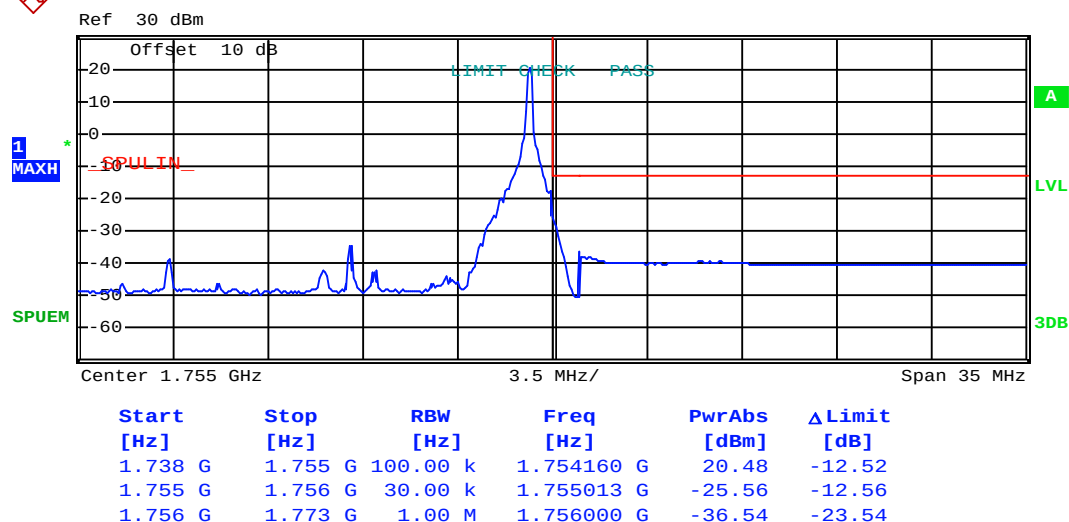


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 74)
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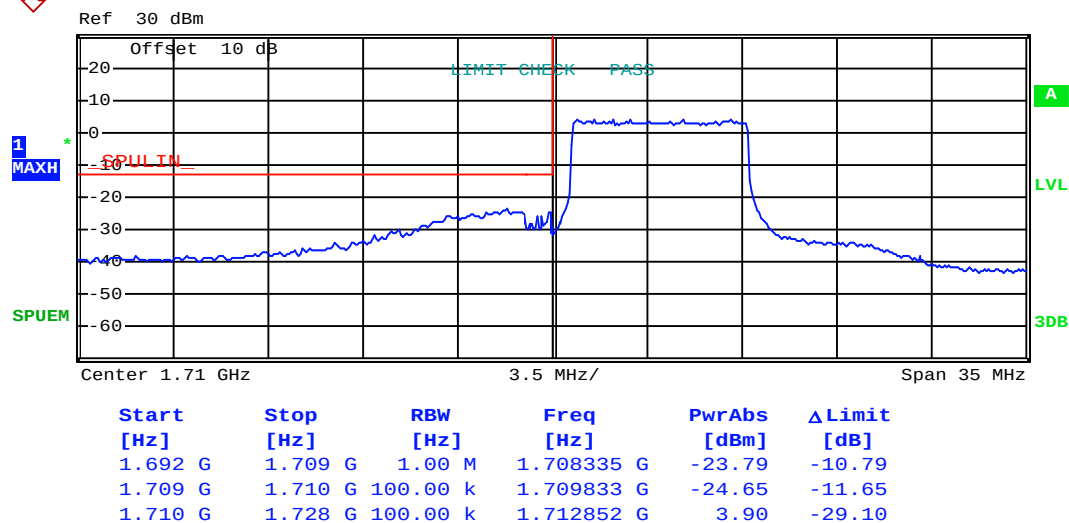
Lowest channel



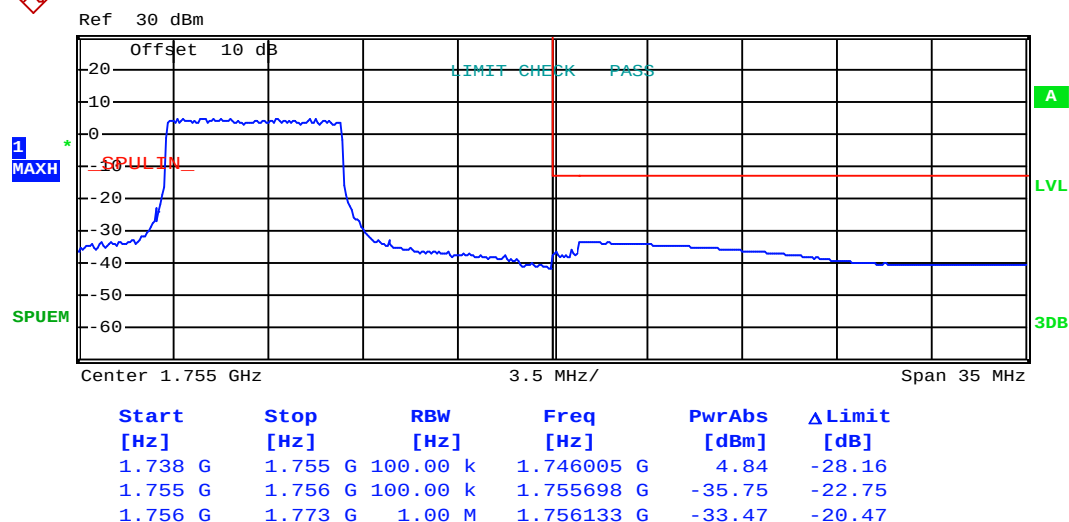
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 36 & RB Offset 0)



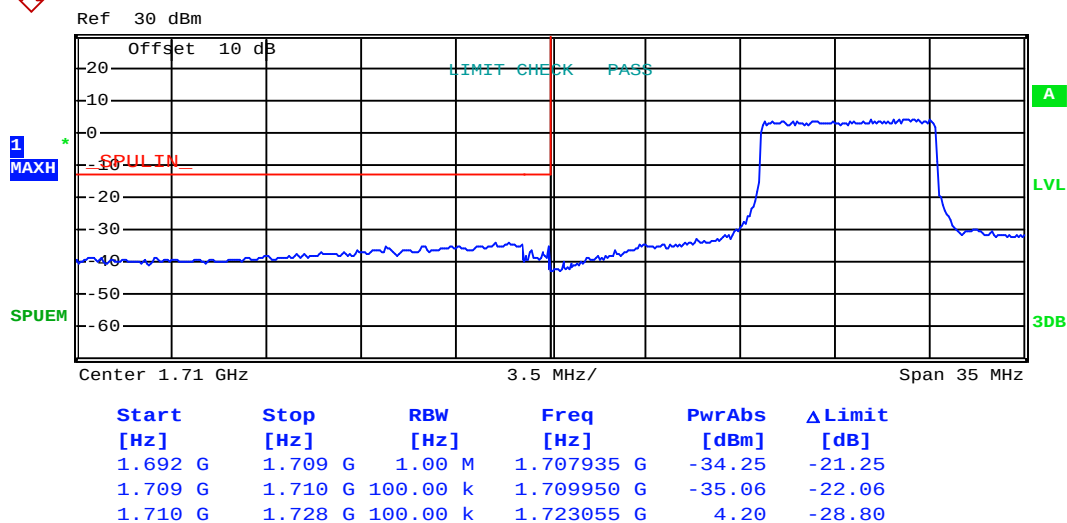
Lowest channel



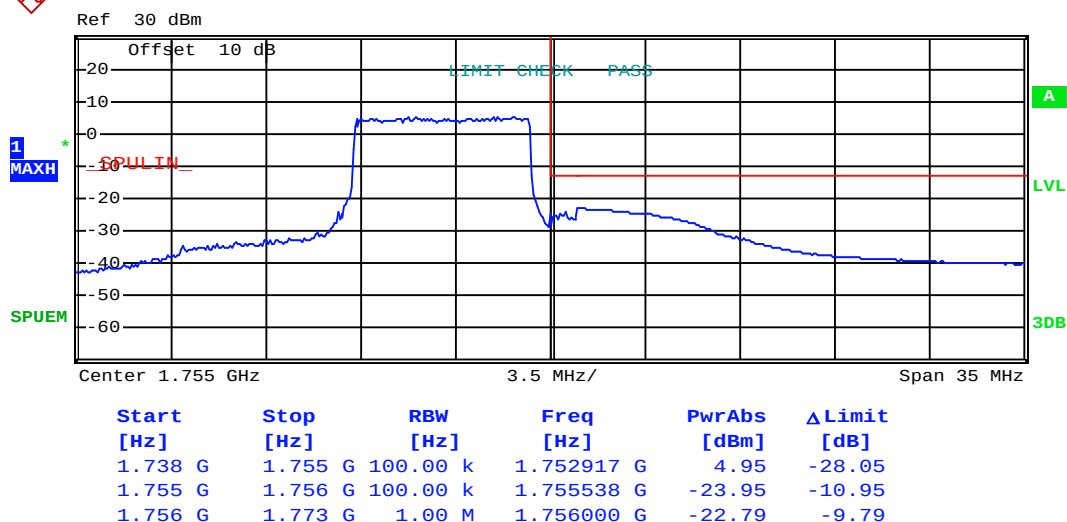
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 36 & RB Offset 37)

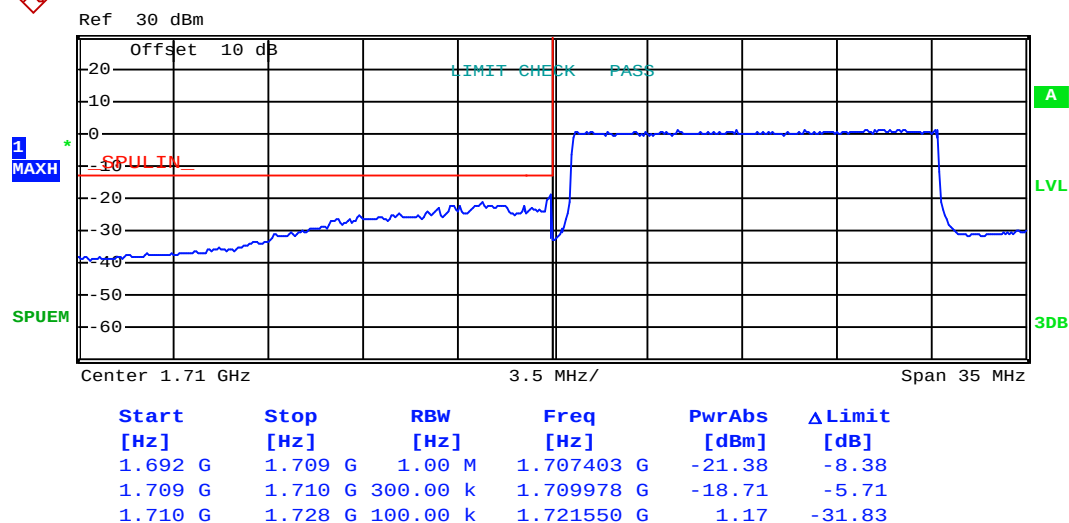


Lowest channel

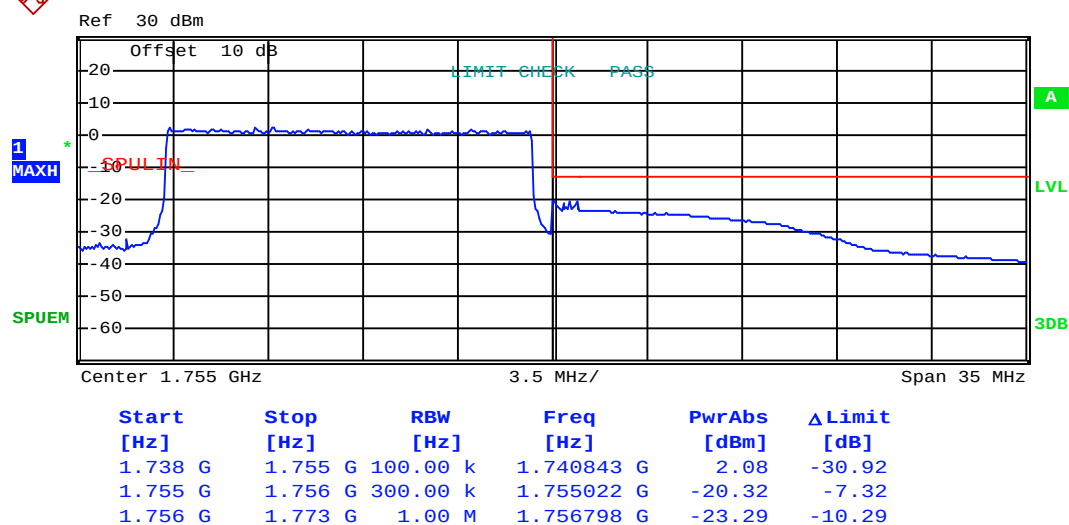


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 75 & RB Offset 0)
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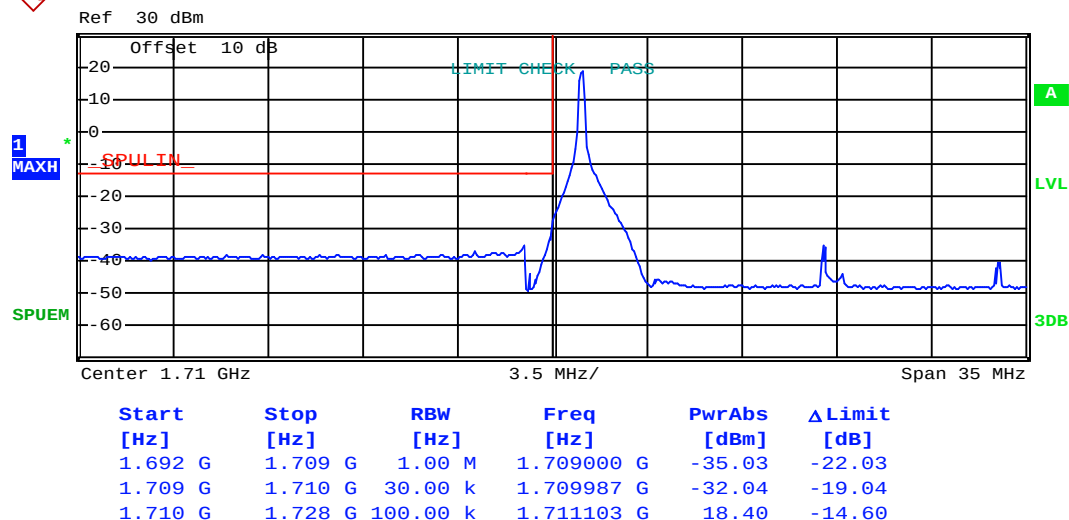
Lowest channel



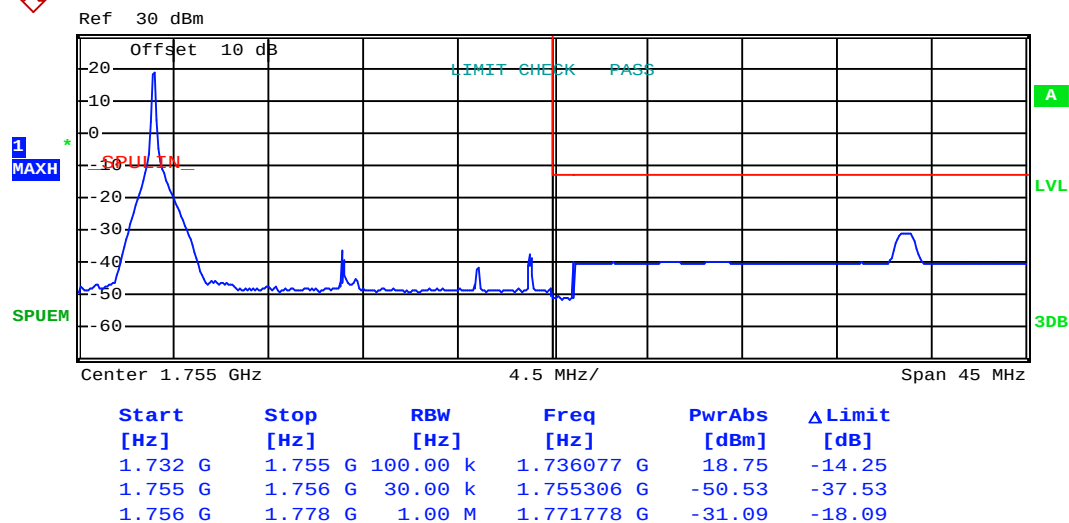
Highest channel

20MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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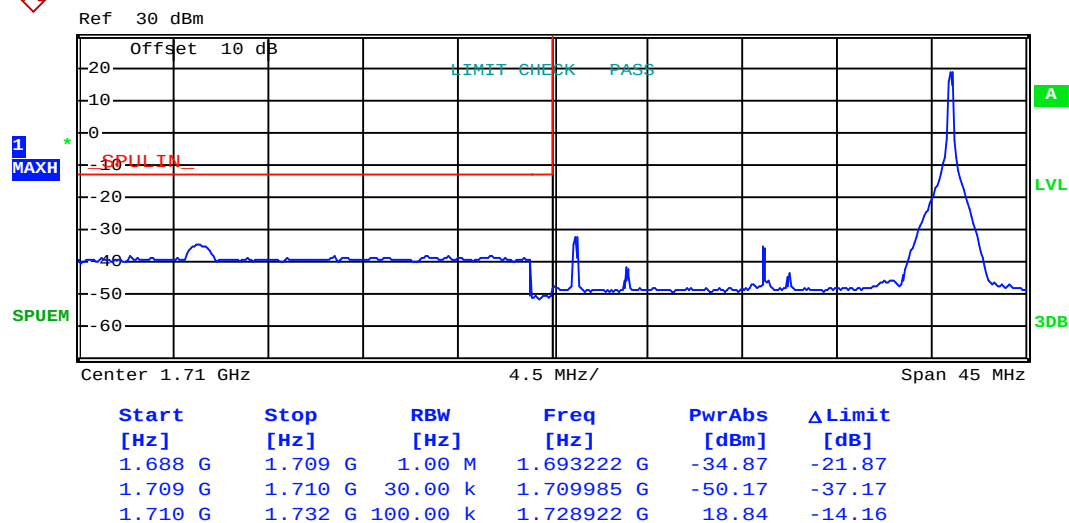


Lowest channel

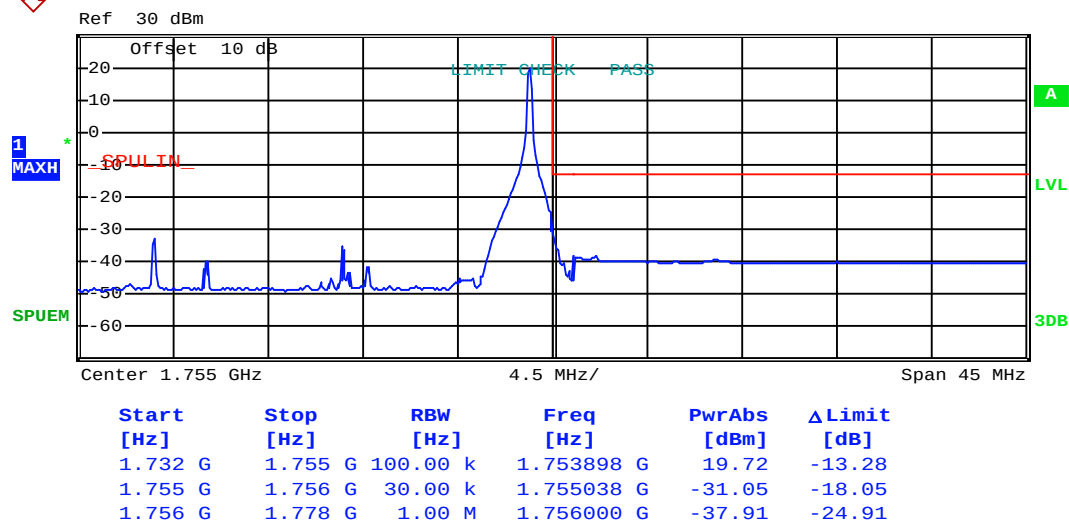


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 99)
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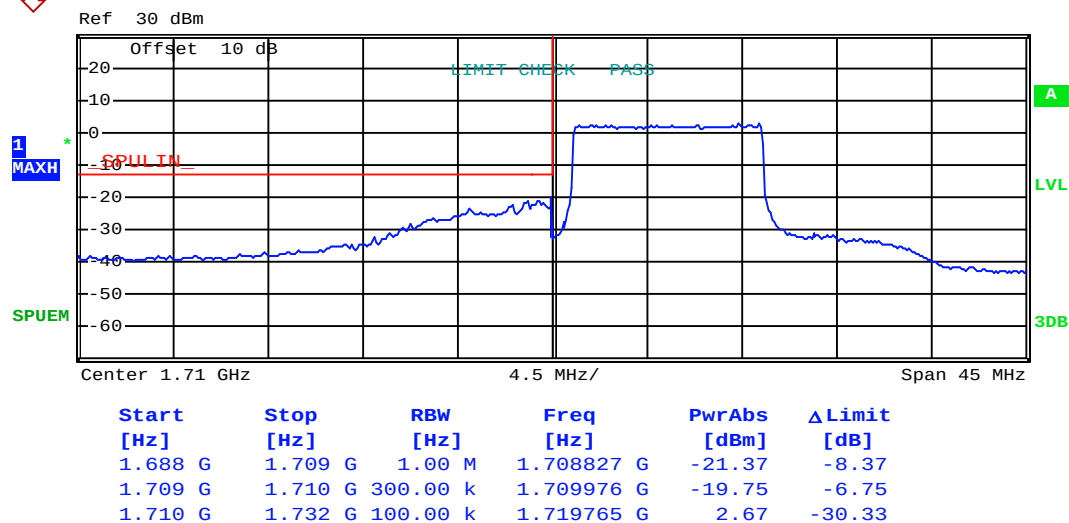


Lowest channel

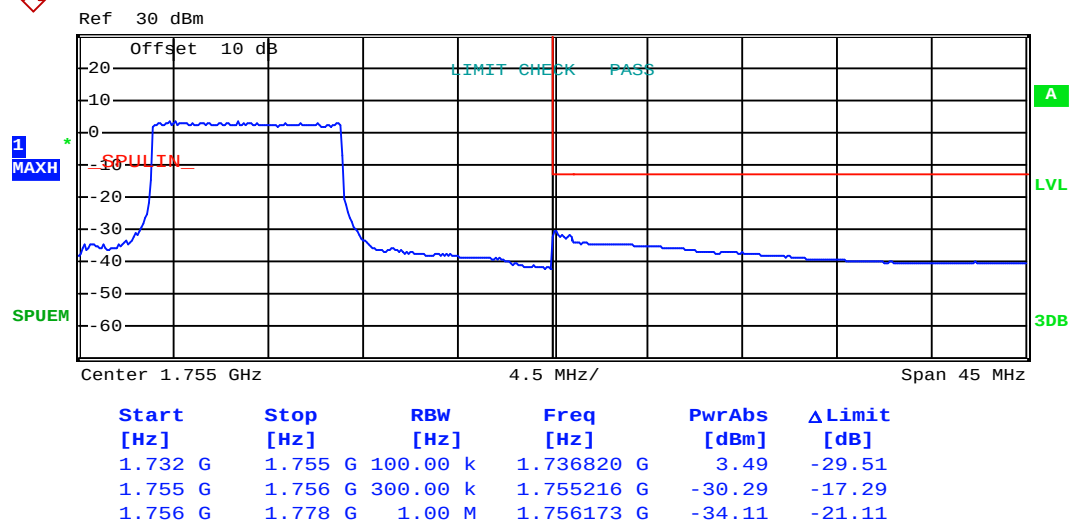


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 0)
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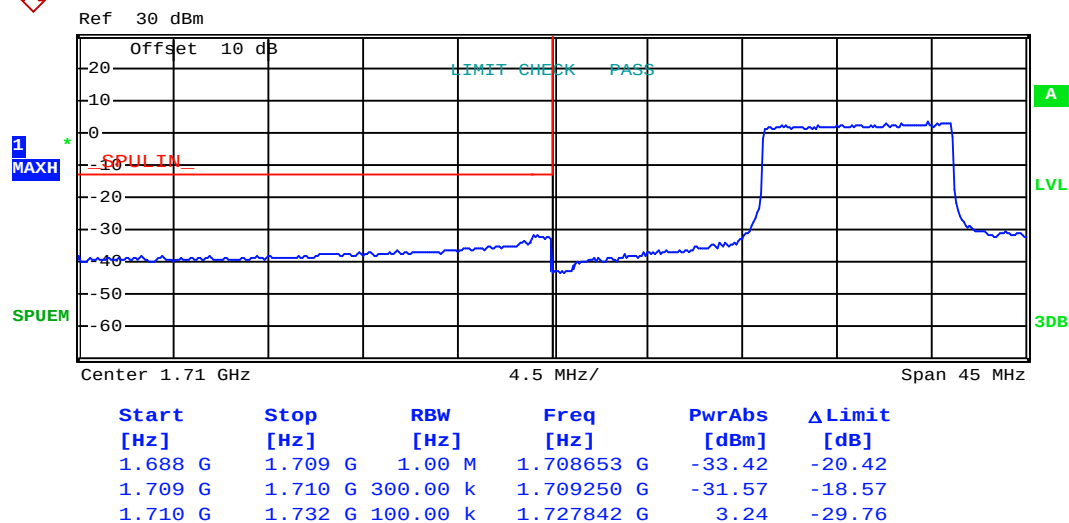


Lowest channel

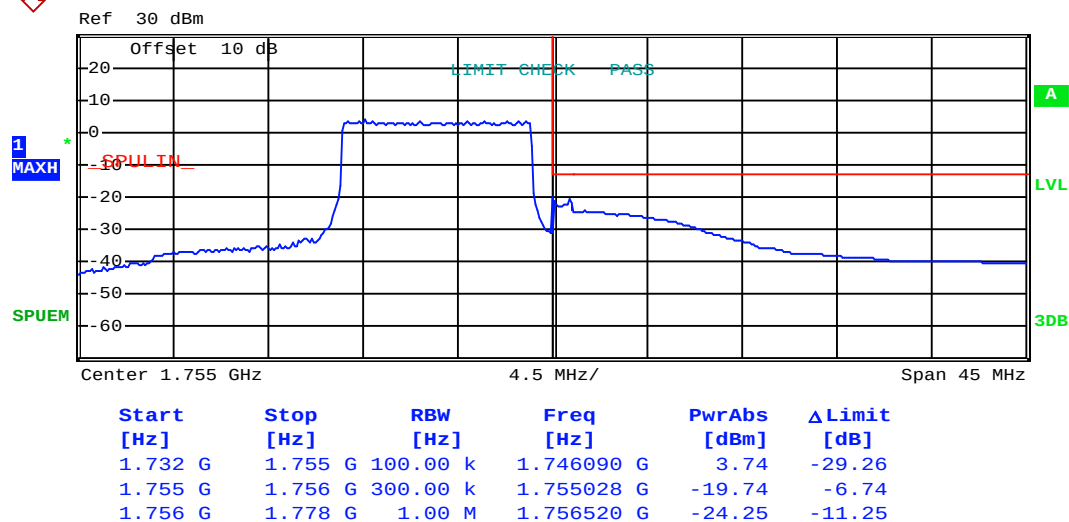


Highest channel

Test Mode:	LTE band 4(QPSK RB Size 50 & RB Offset 49)
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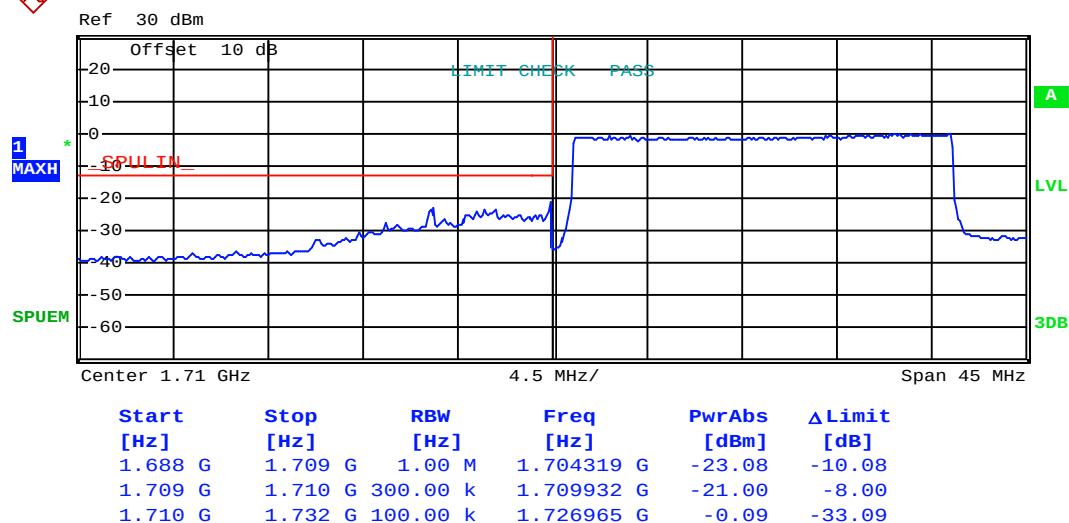
Lowest channel



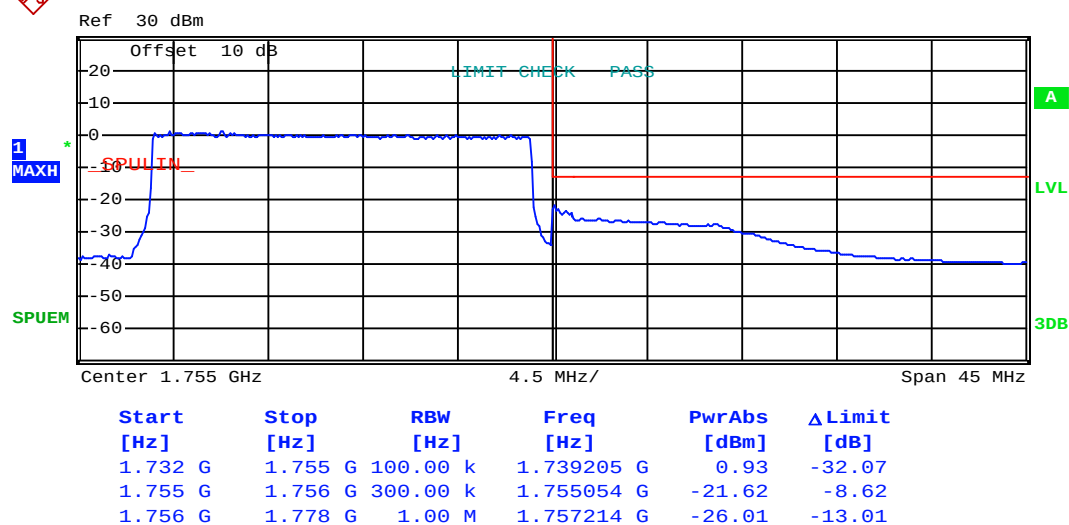
Highest channel

Test Mode:

LTE band 4(QPSK RB Size 100 & RB Offset 0)

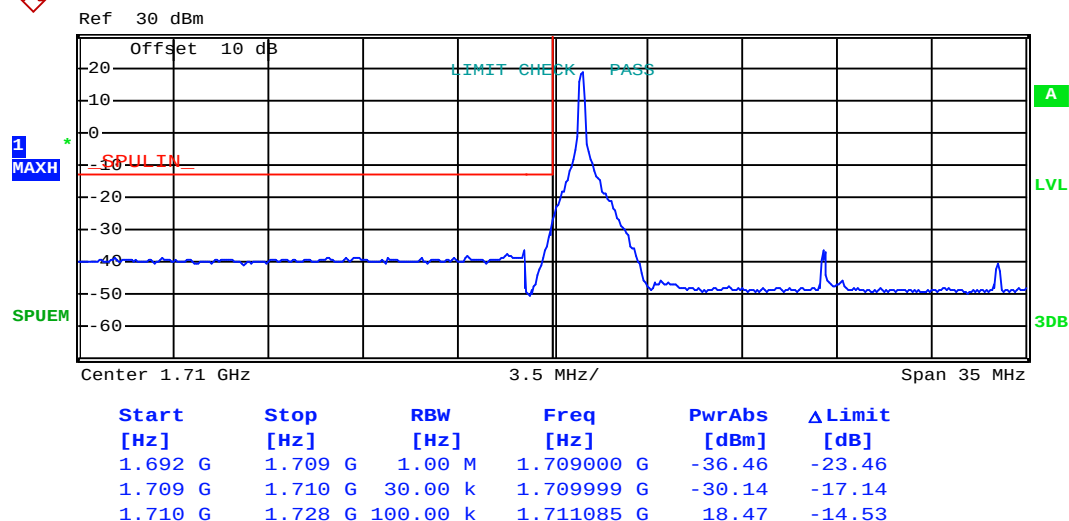


Lowest channel

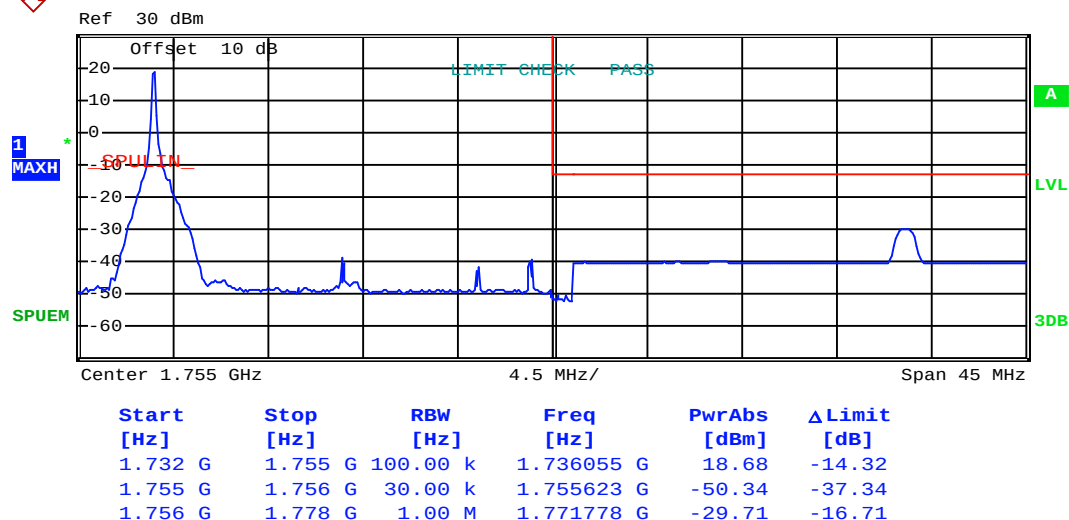


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 0)
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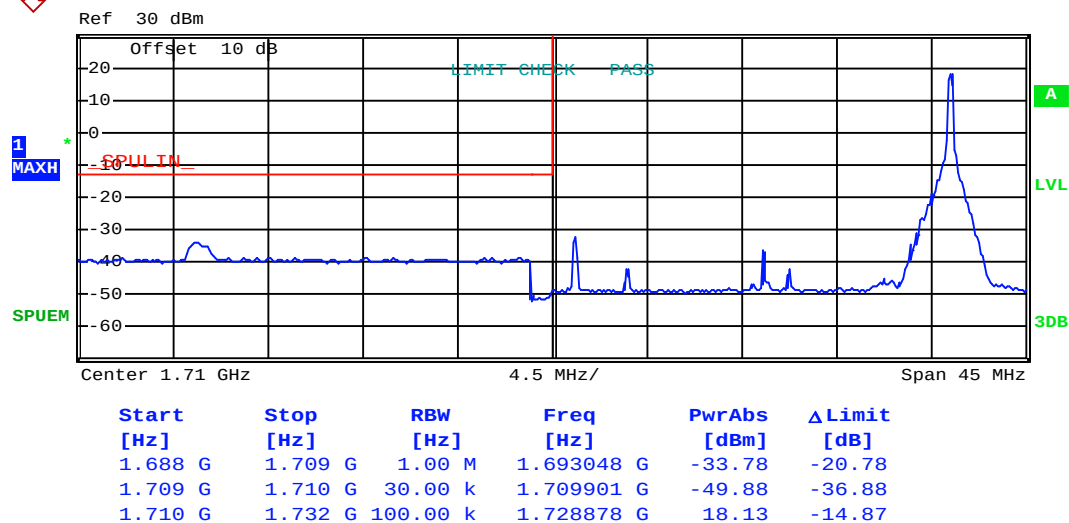


Lowest channel

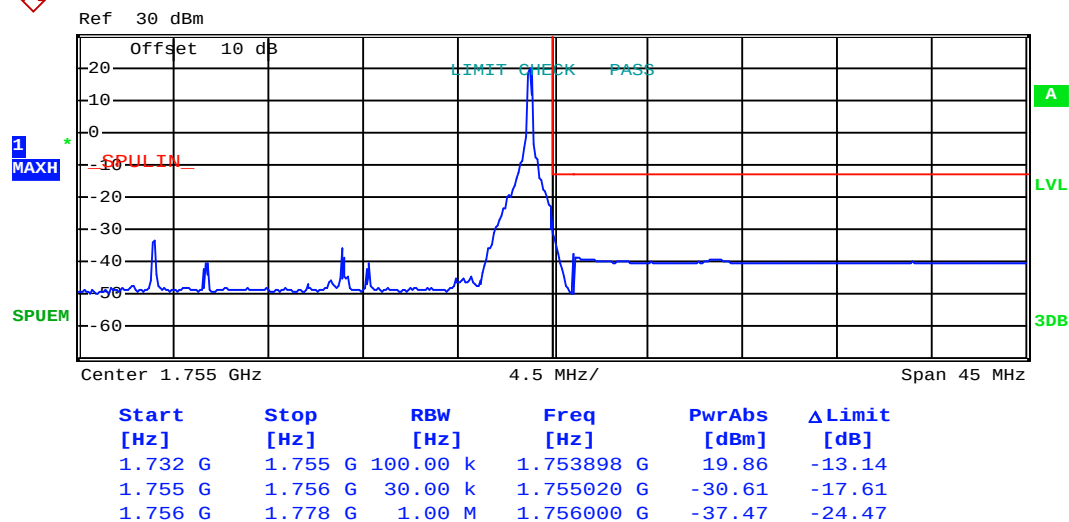


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 1 & RB Offset 99)
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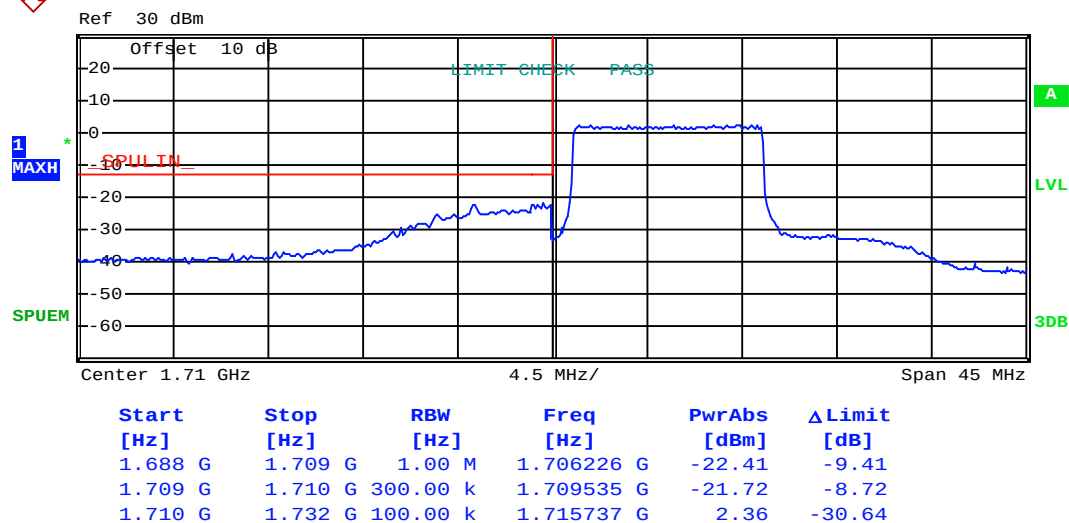


Lowest channel

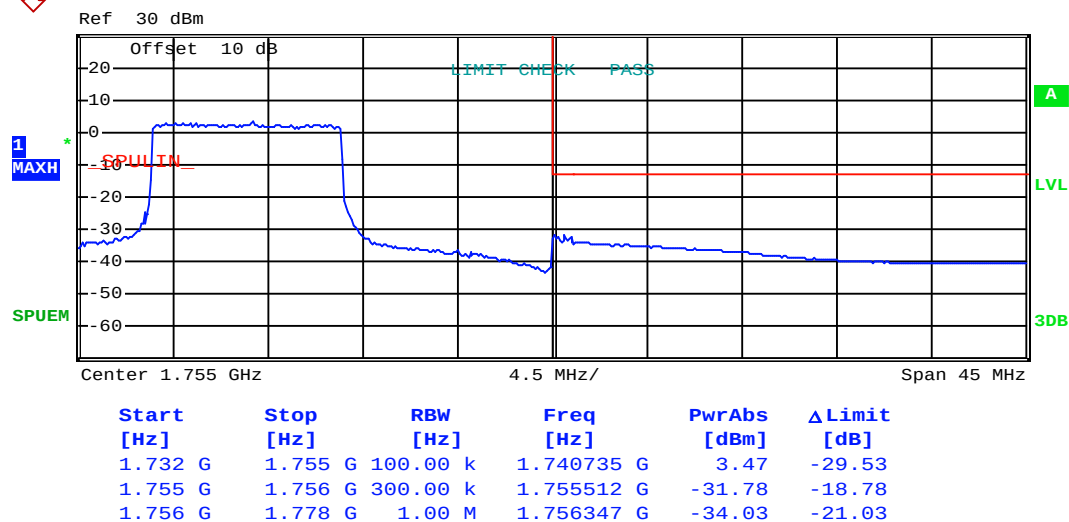


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 50 & RB Offset 0)
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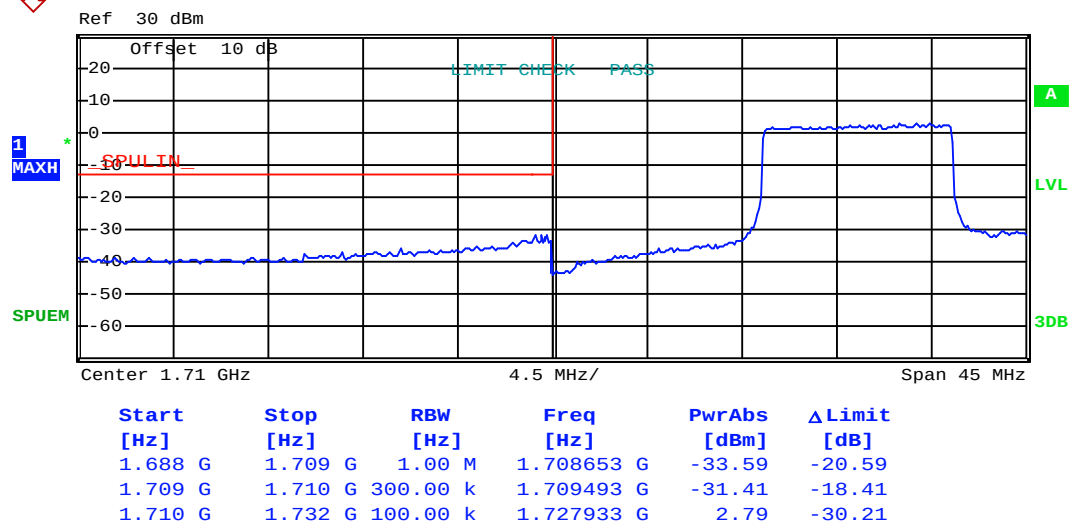


Lowest channel

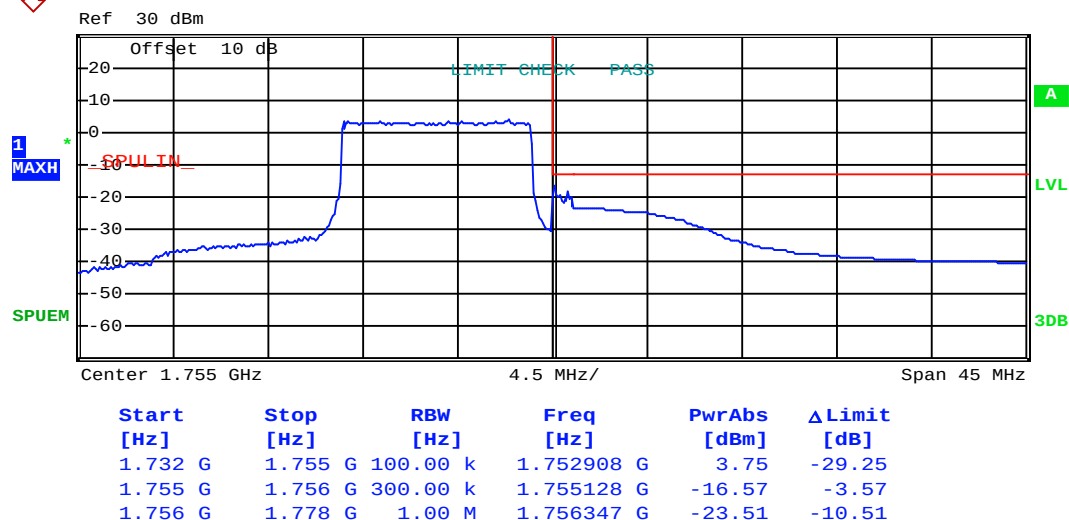


Highest channel

Test Mode:	LTE band 4(16QAM RB Size 50 & RB Offset 49)
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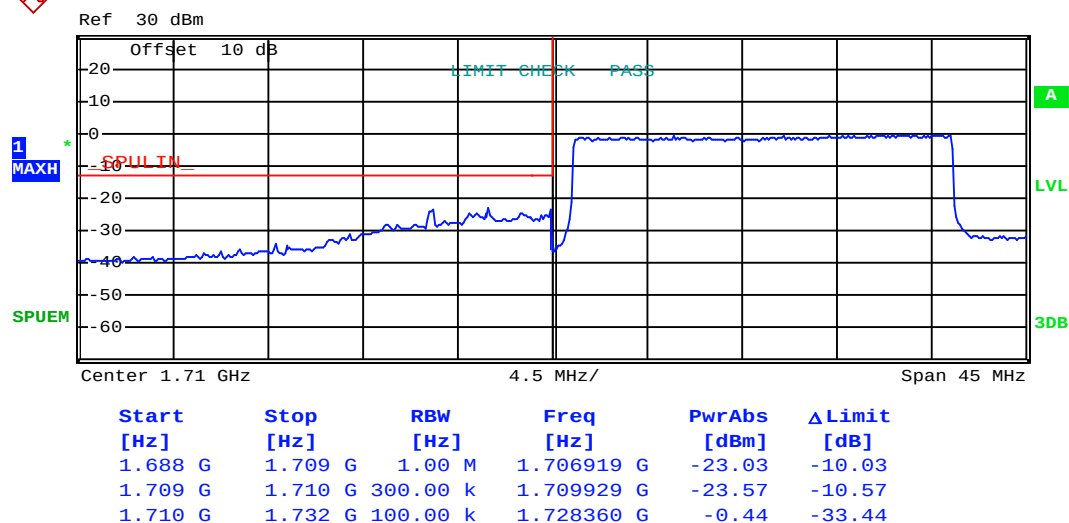
Lowest channel



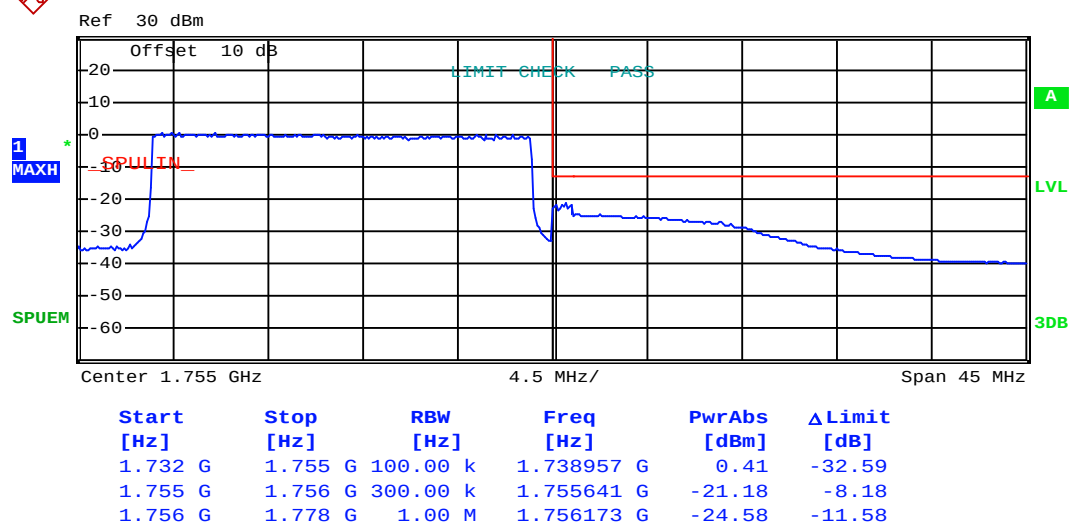
Highest channel

Test Mode:

LTE band 4(16QAM RB Size 100 & RB Offset 0)



Lowest channel

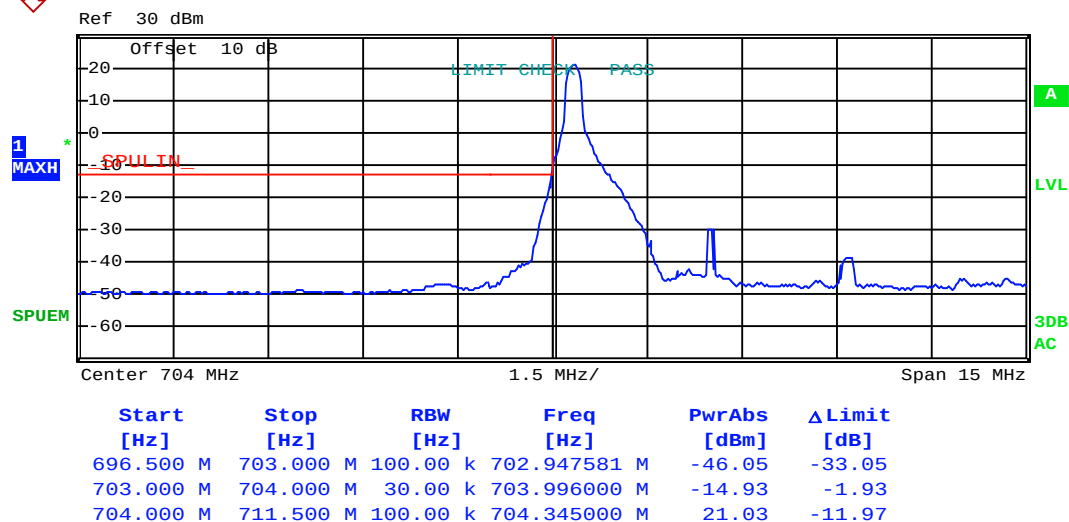


Highest channel

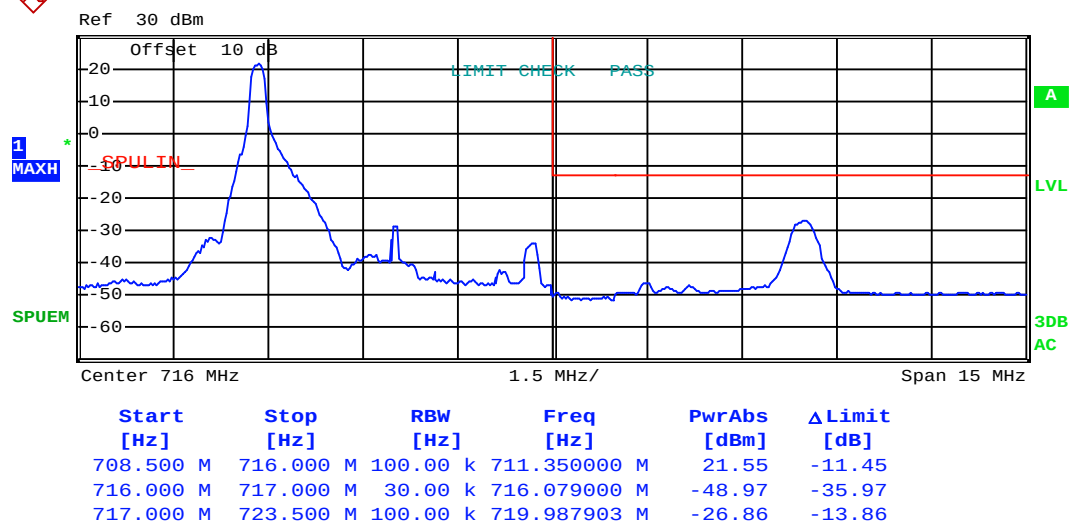
LTE band 17 part:

5MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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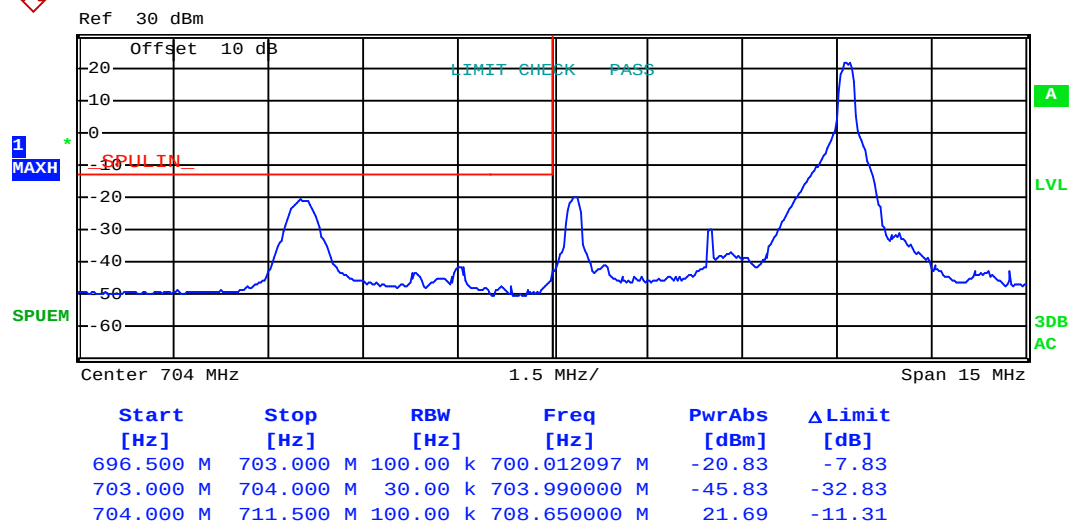


Lowest channel

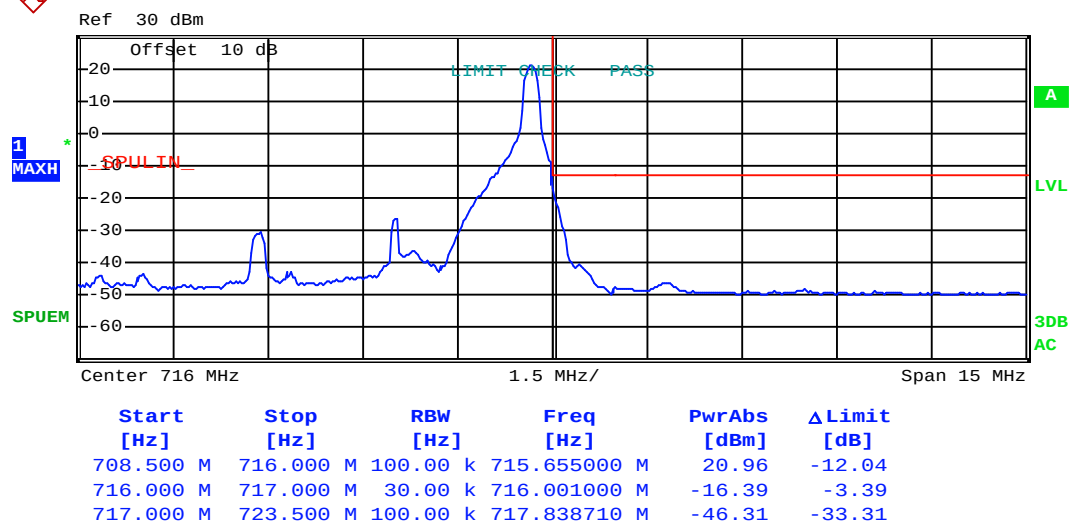


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 24)
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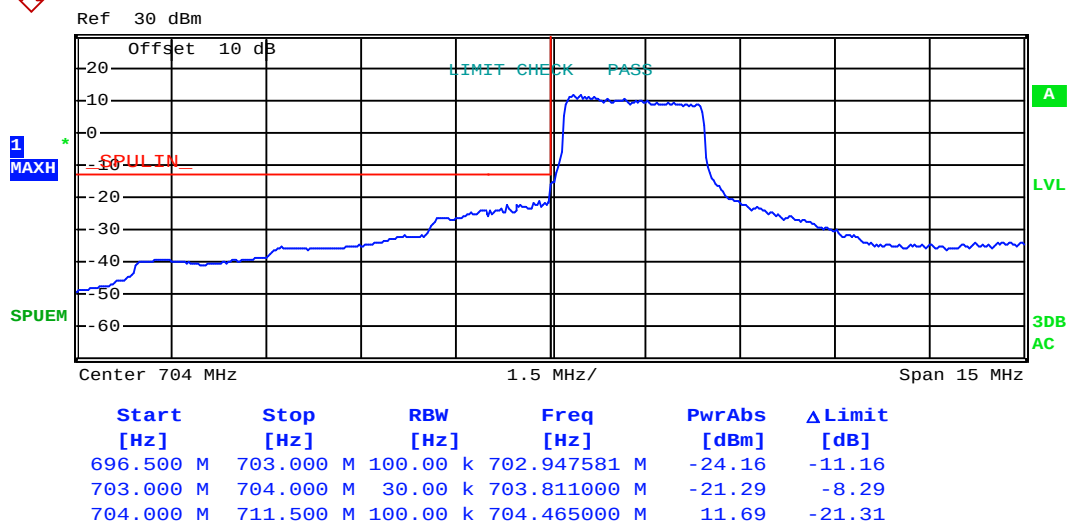
Lowest channel



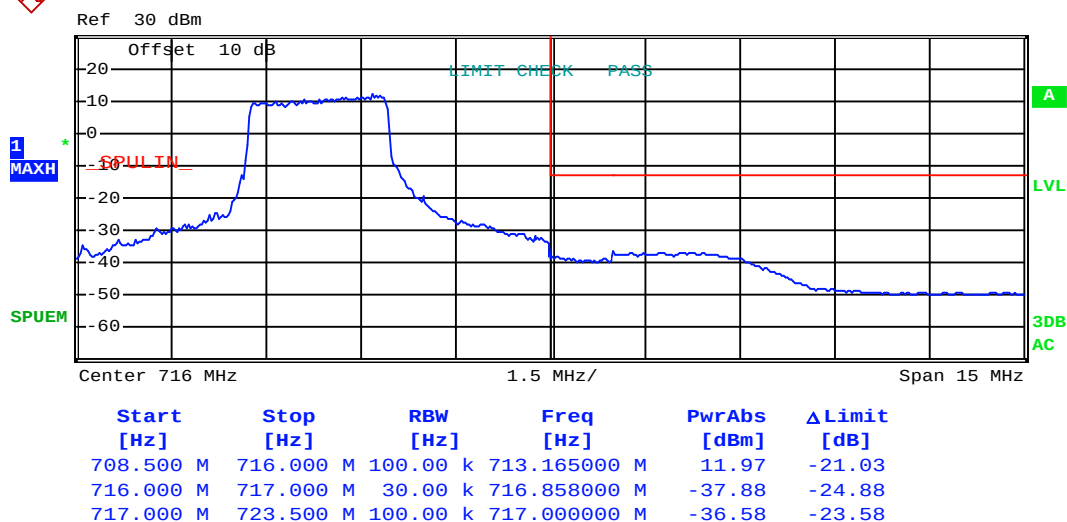
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 12 & RB Offset 0)

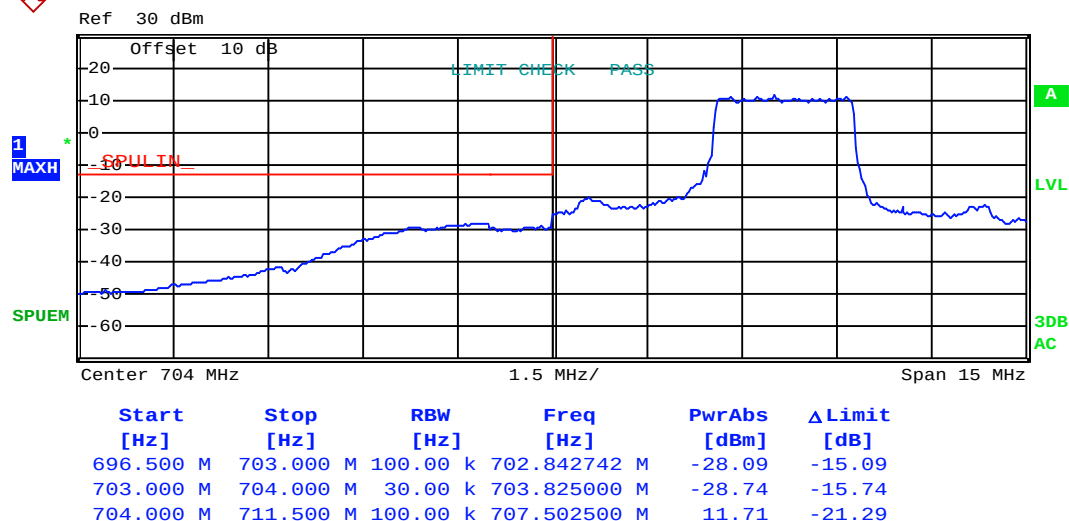


Lowest channel

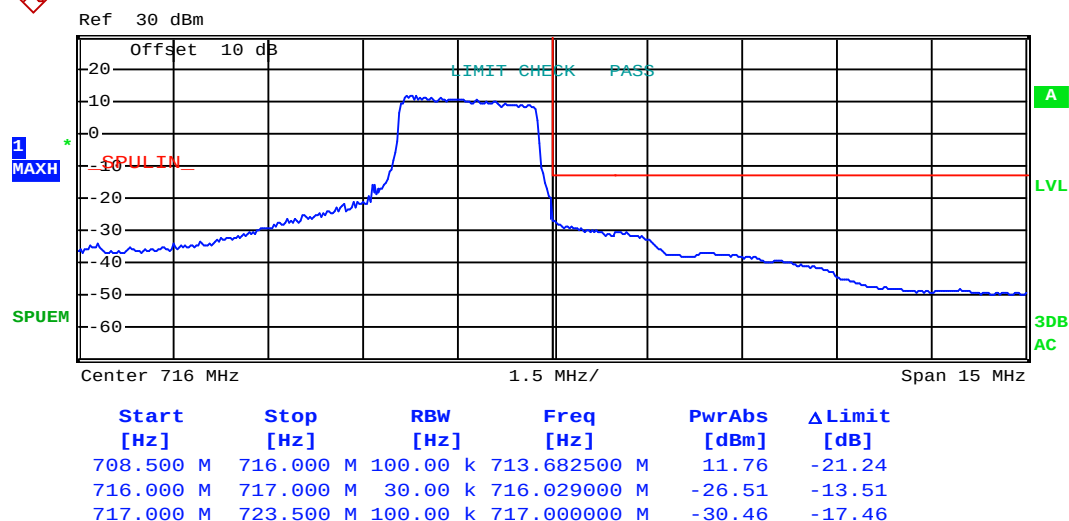


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 12 & RB Offset 11)
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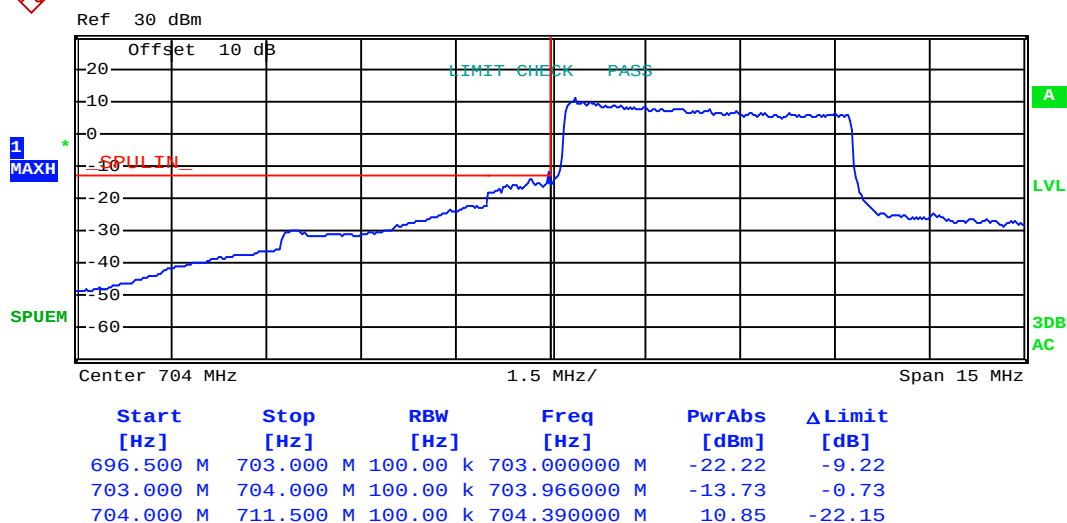
Lowest channel



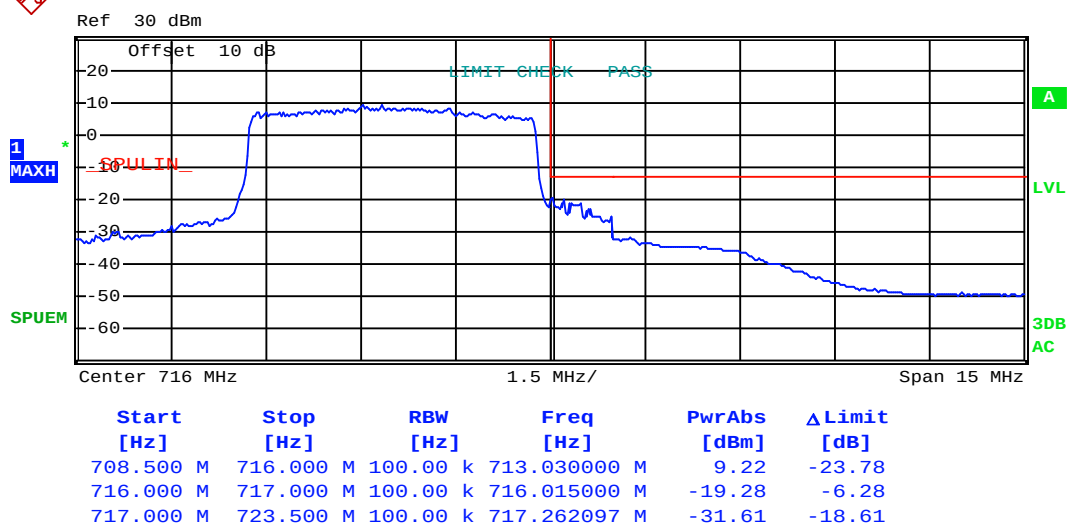
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 25 & RB Offset 0)

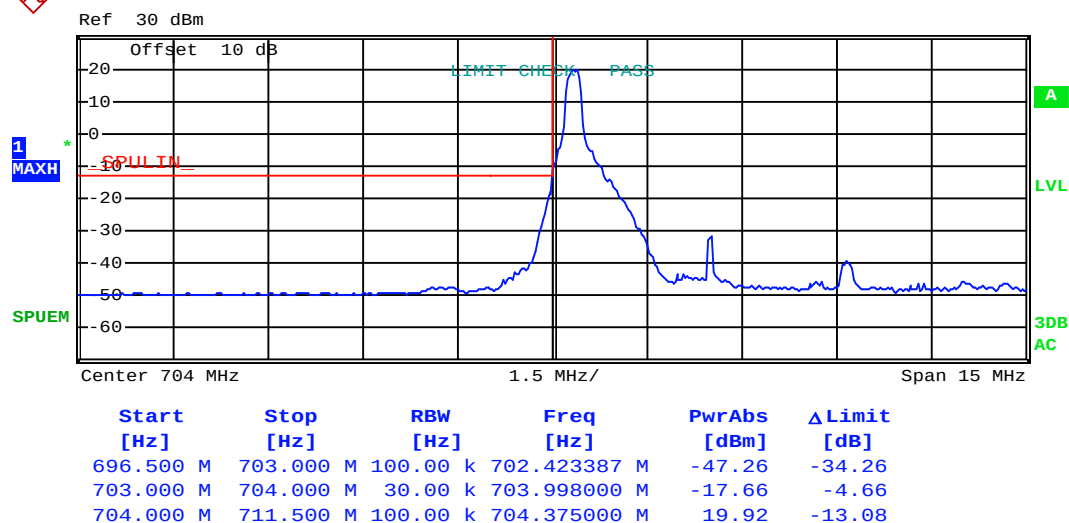


Lowest channel

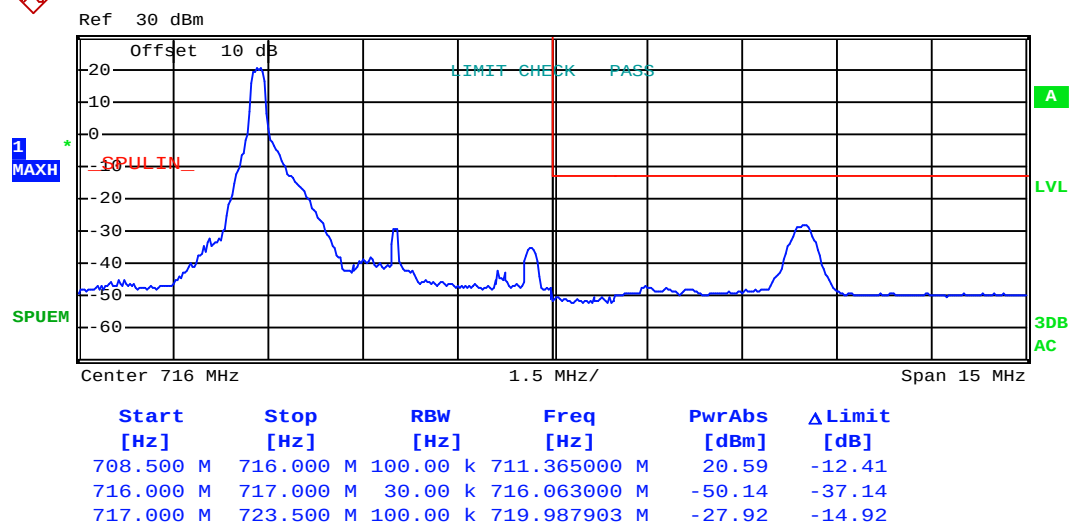


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 0)
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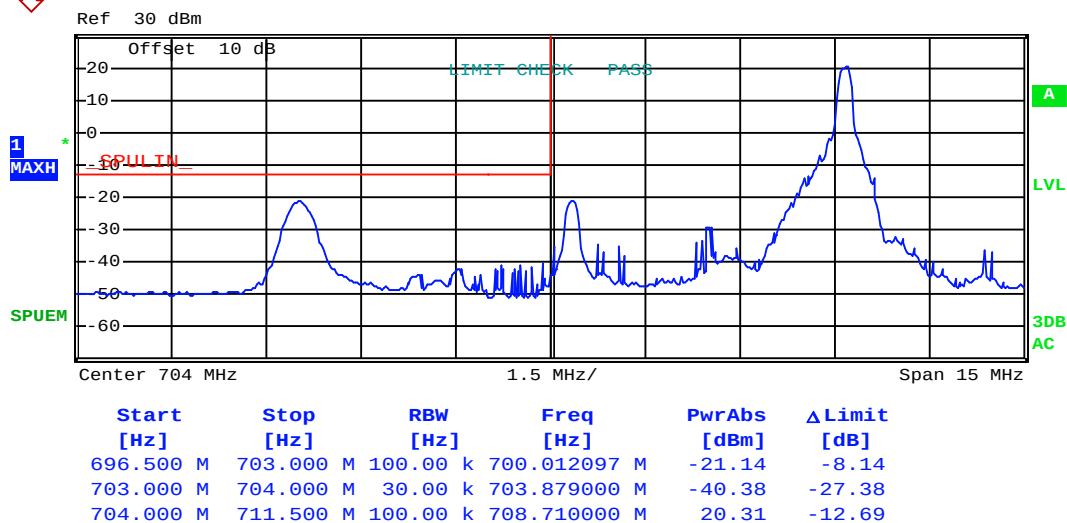
Lowest channel



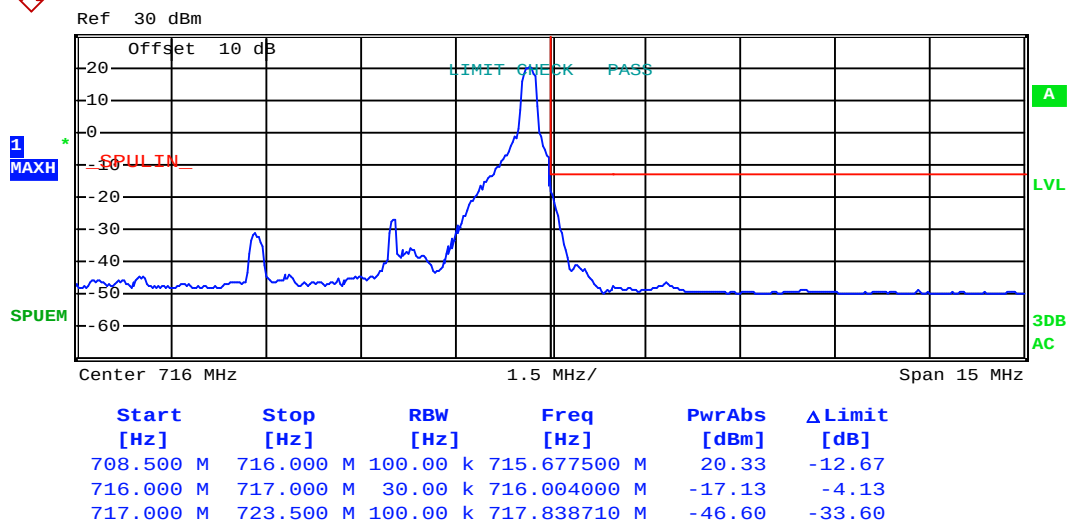
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 1 & RB Offset 24)



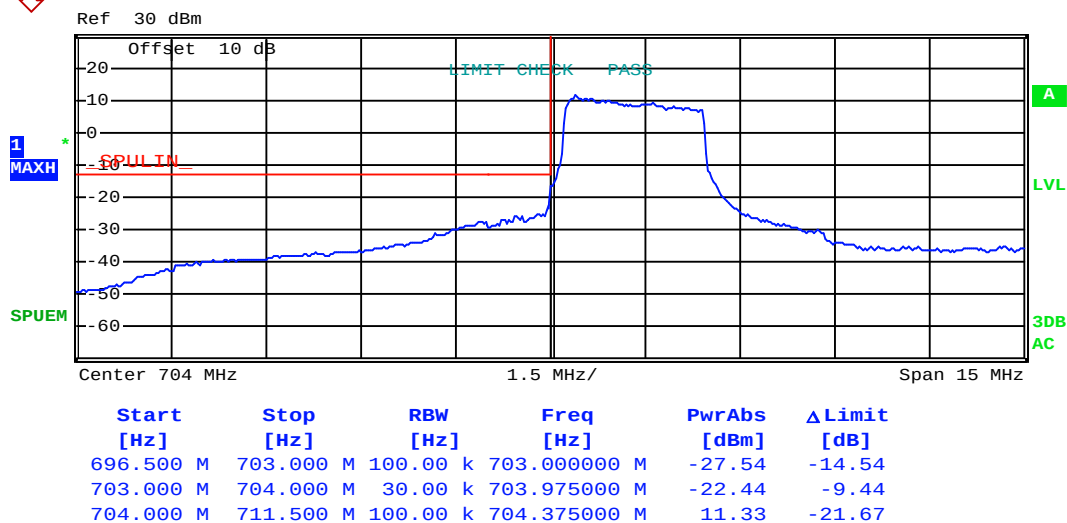
Lowest channel



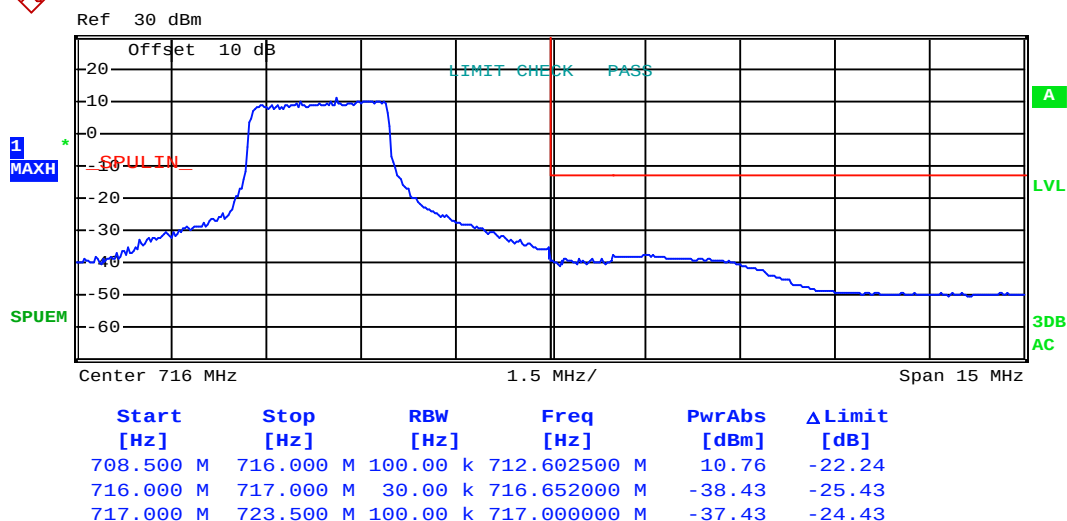
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 12 & RB Offset 0)

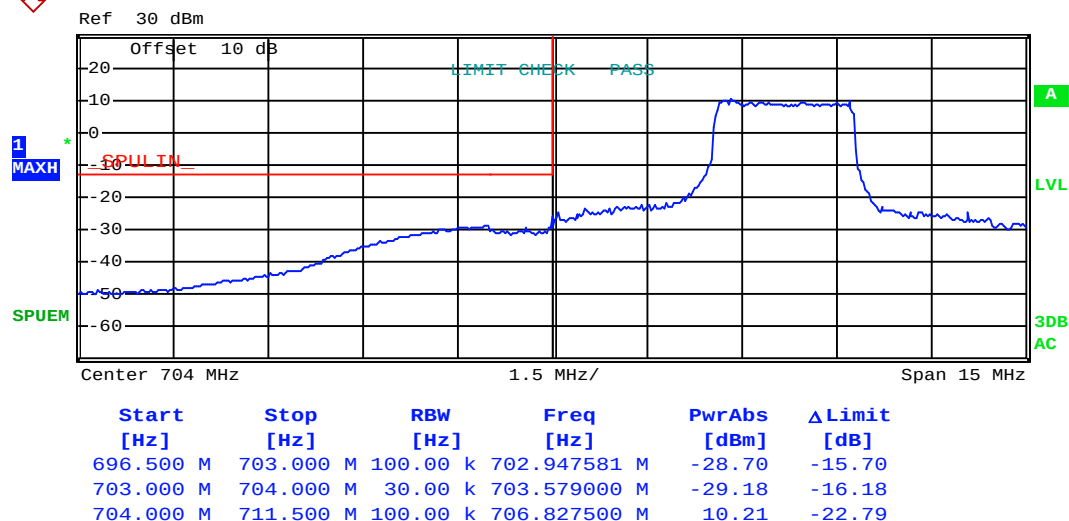


Lowest channel

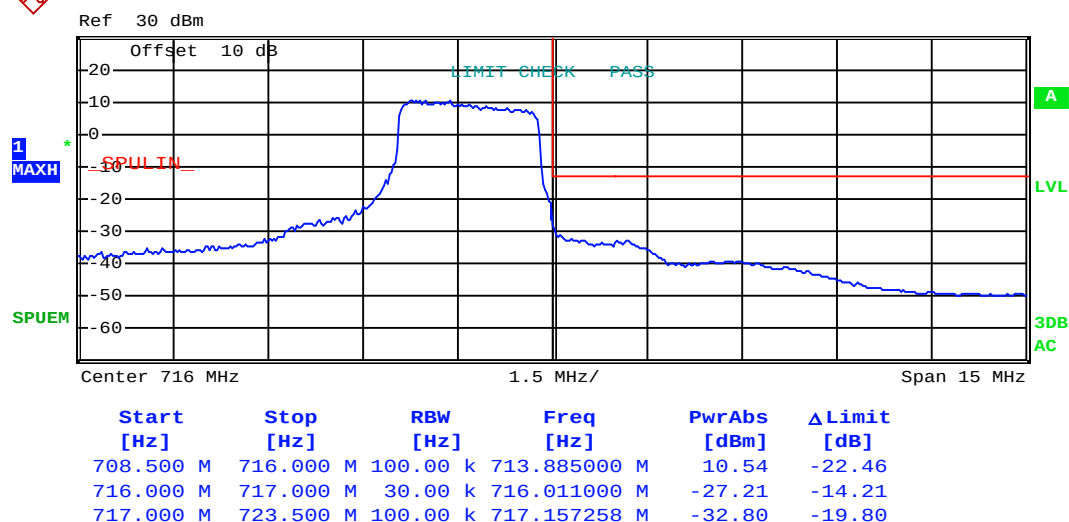


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 12 & RB Offset 11)
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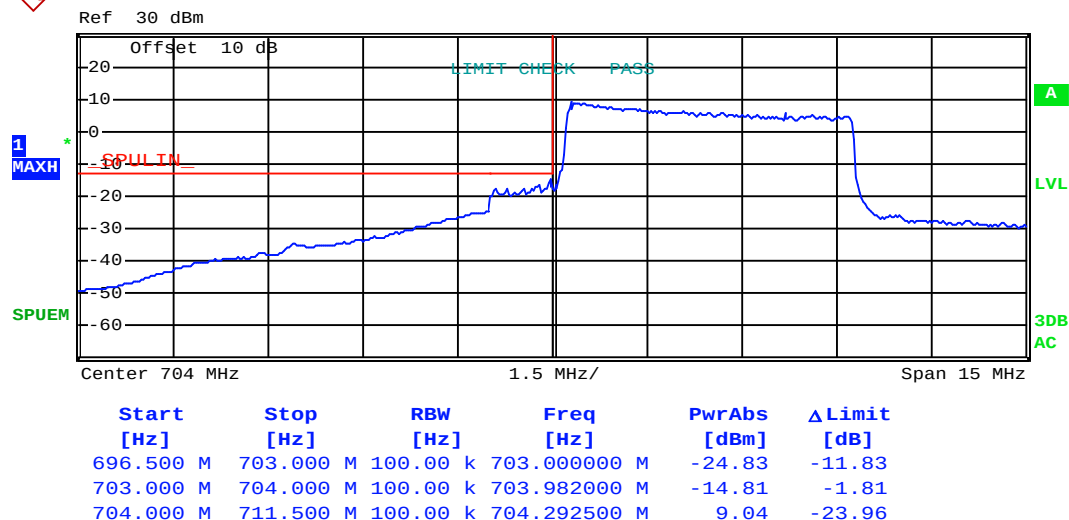


Lowest channel

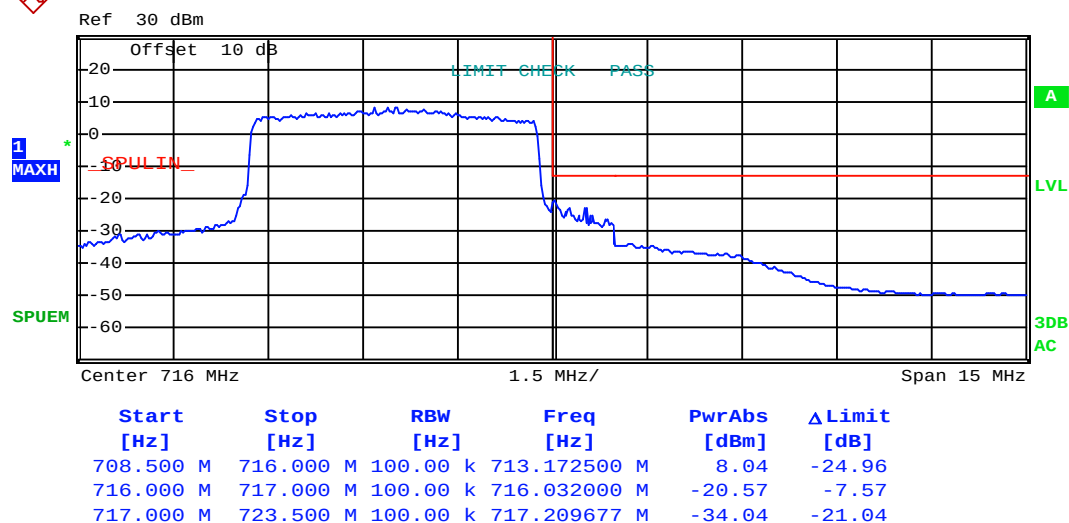


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 0)
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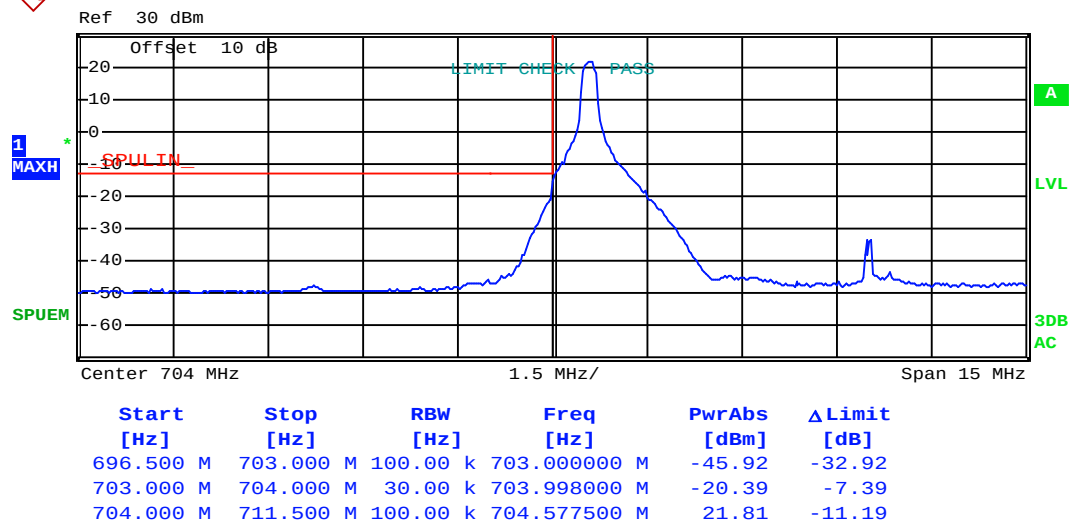
Lowest channel



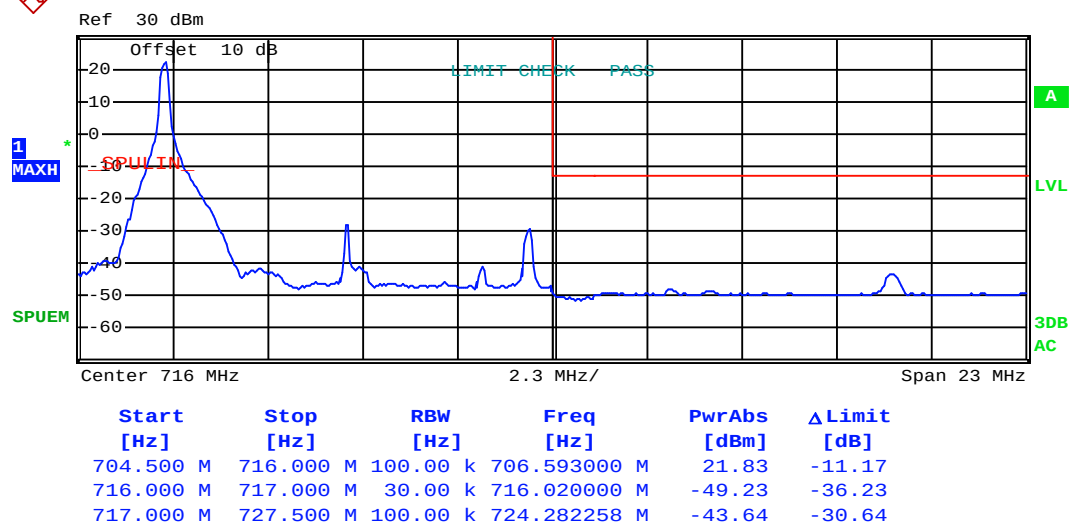
Highest channel

10MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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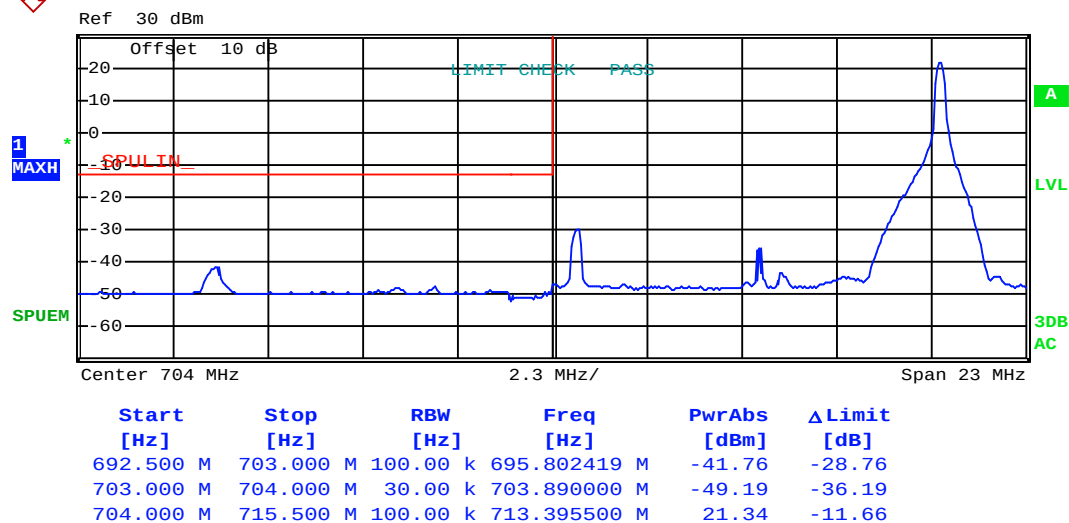


Lowest channel

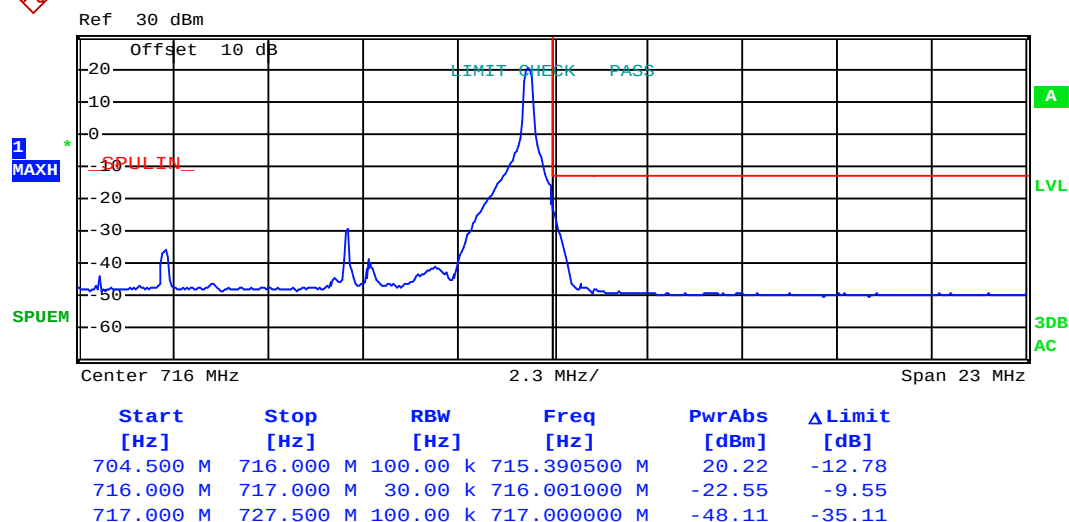


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 49)
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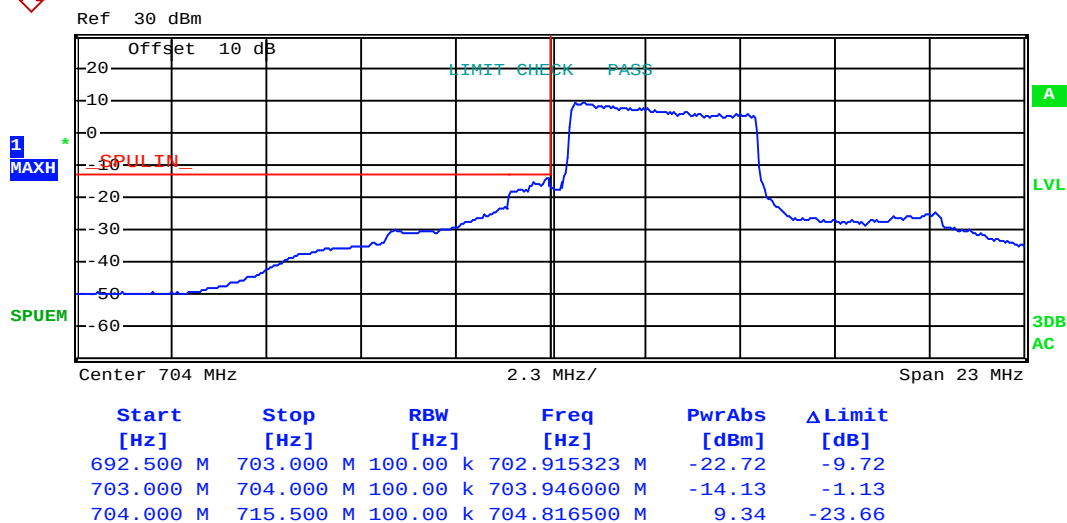
Lowest channel



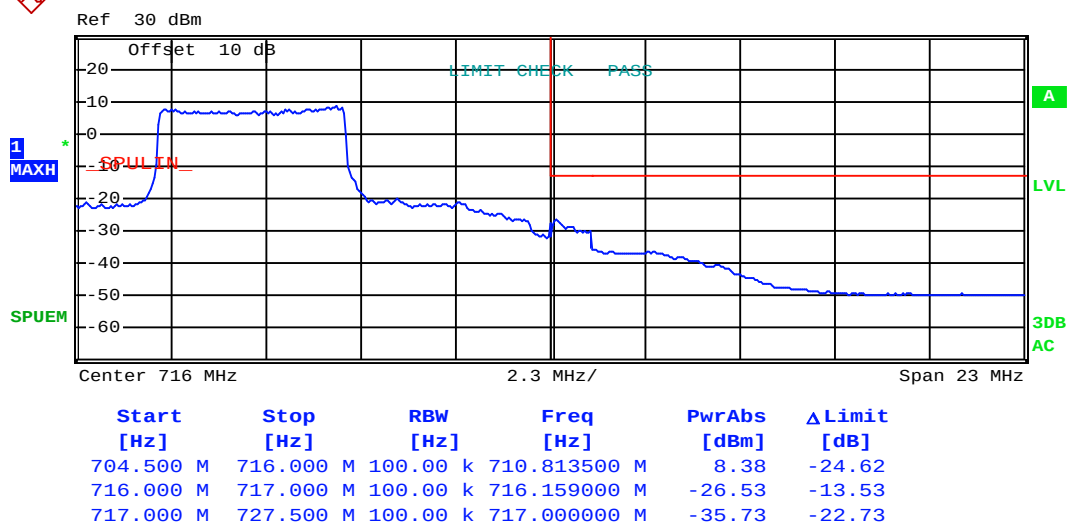
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 25 & RB Offset 0)

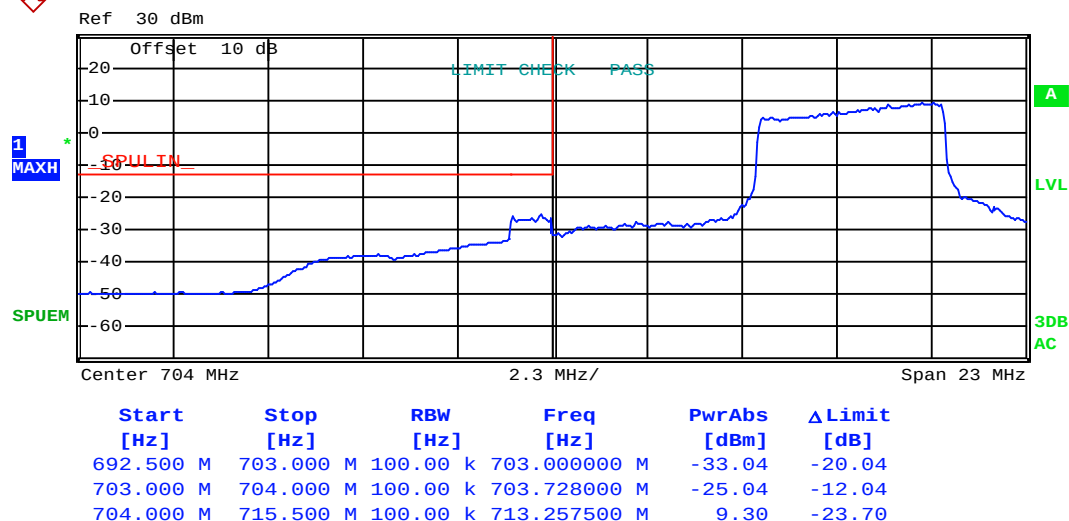


Lowest channel

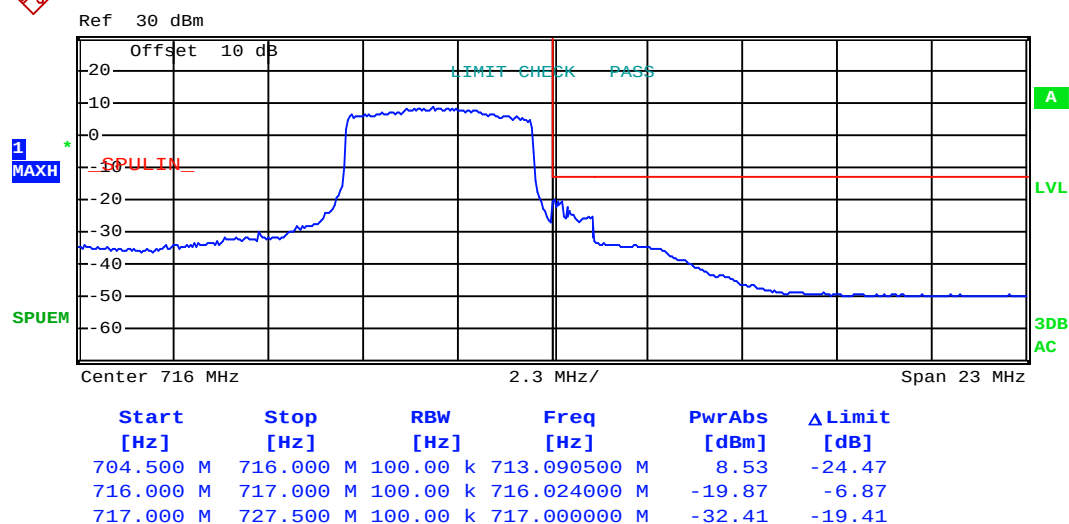


Highest channel

Test Mode:	LTE band 17(QPSK RB Size 25 & RB Offset 24)
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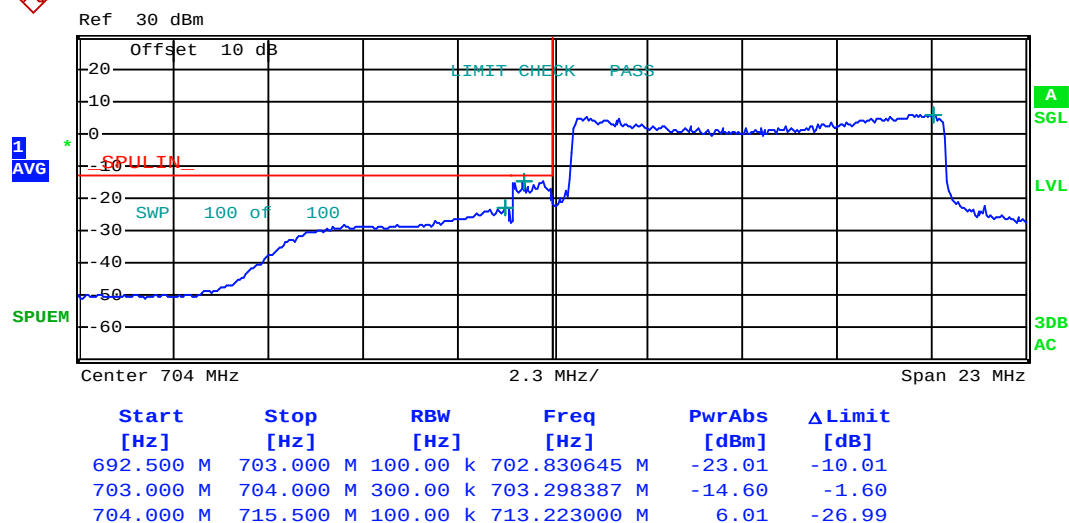
Lowest channel



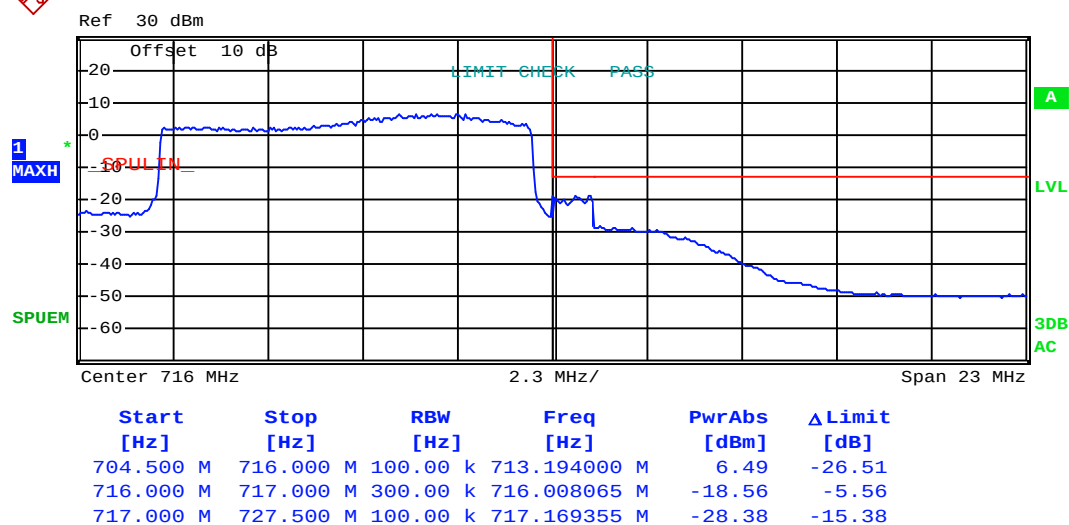
Highest channel

Test Mode:

LTE band 17(QPSK RB Size 50 & RB Offset 0)

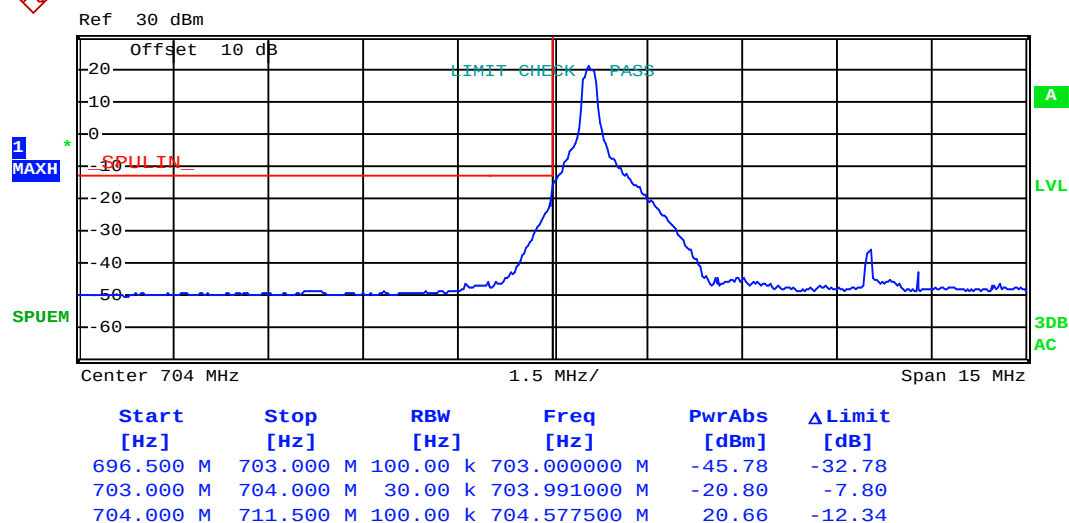


Lowest channel

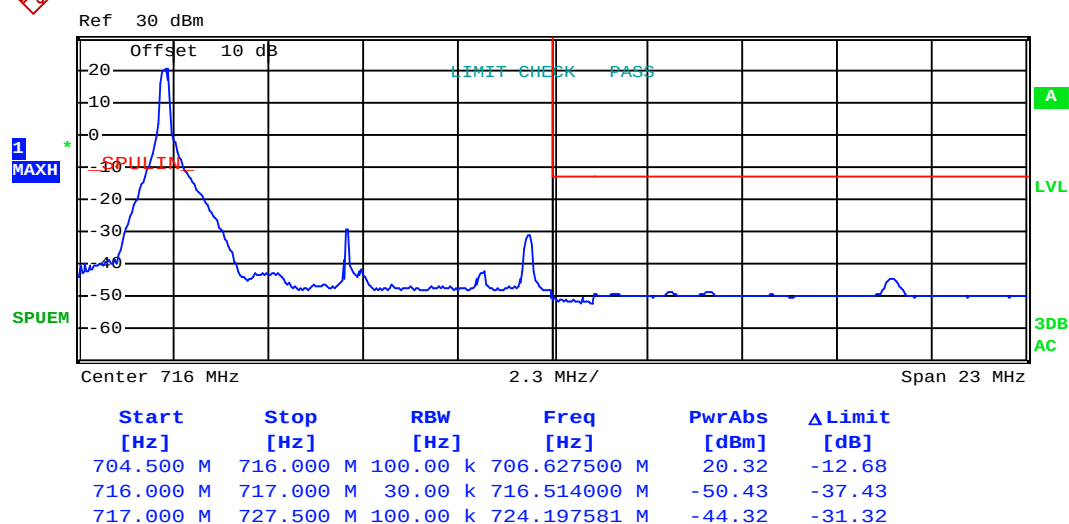


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 0)
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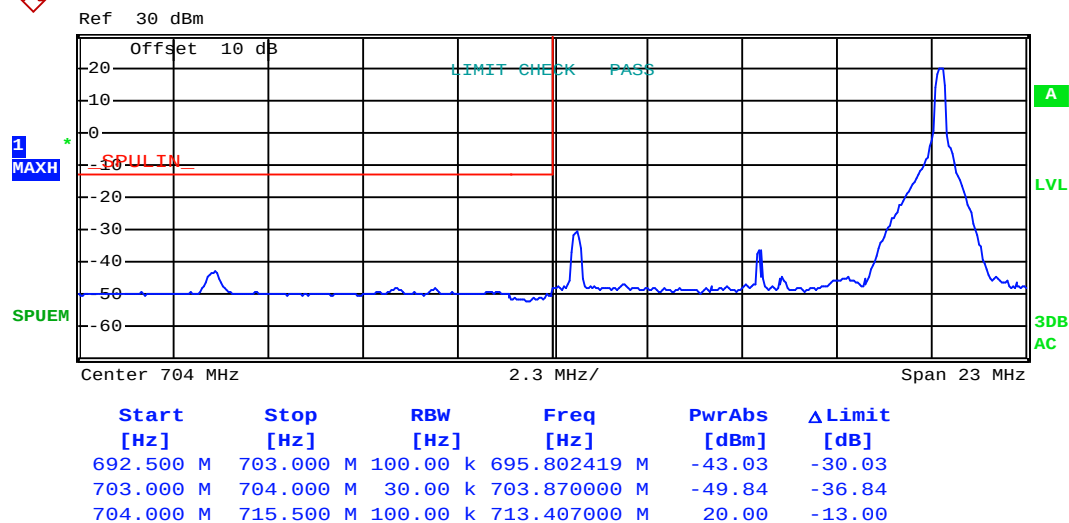


Lowest channel

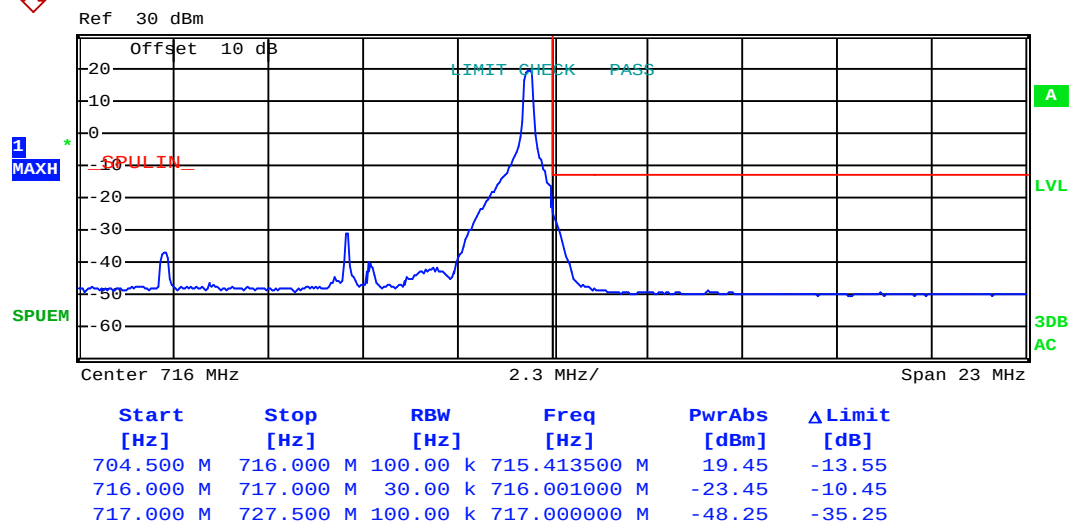


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 1 & RB Offset 49)
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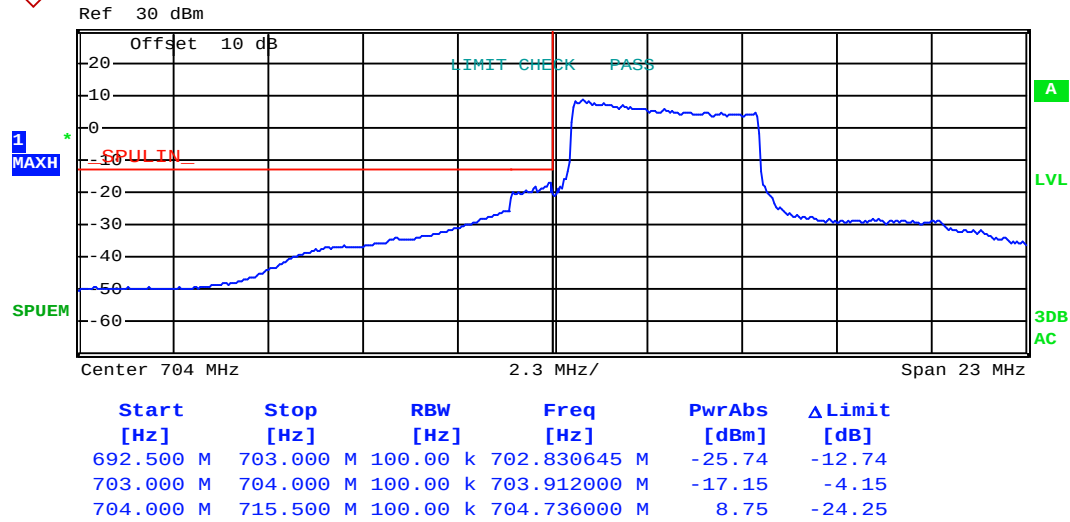
Lowest channel



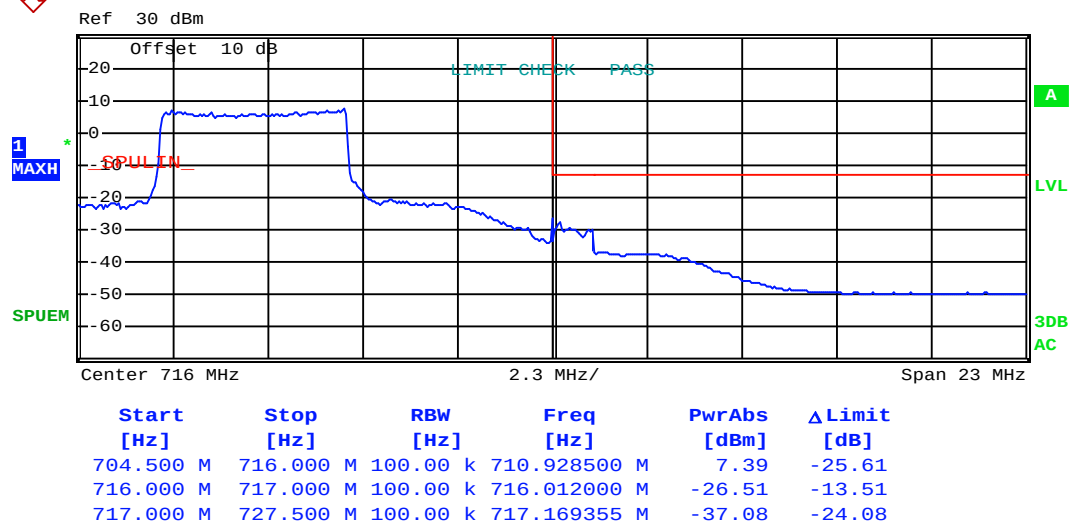
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 25 & RB Offset 0)

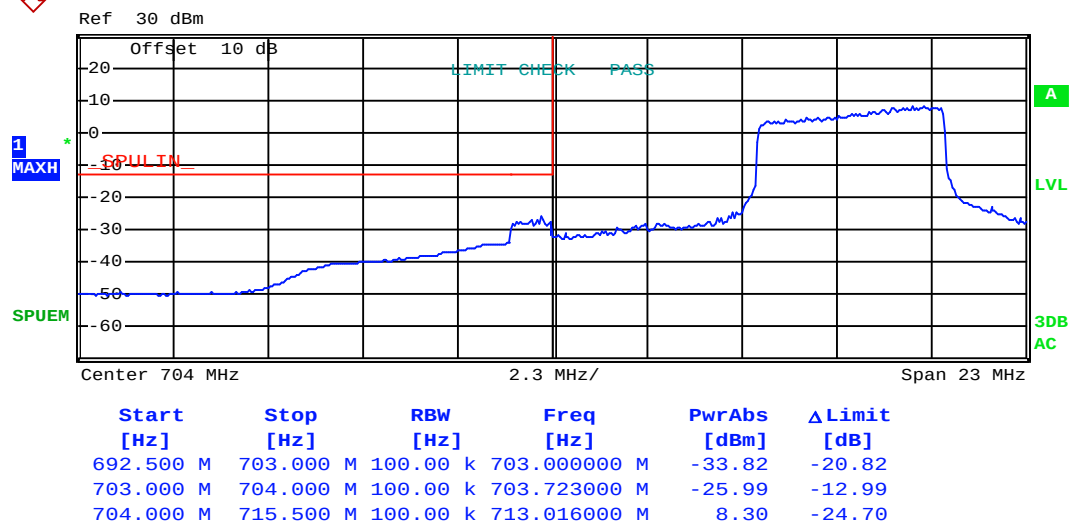


Lowest channel

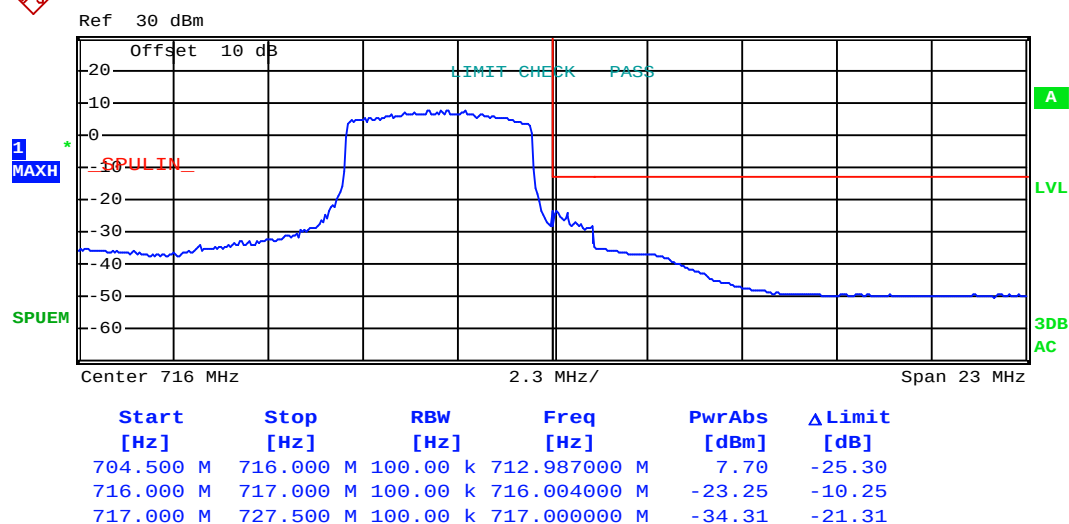


Highest channel

Test Mode:	LTE band 17(16QAM RB Size 25 & RB Offset 24)
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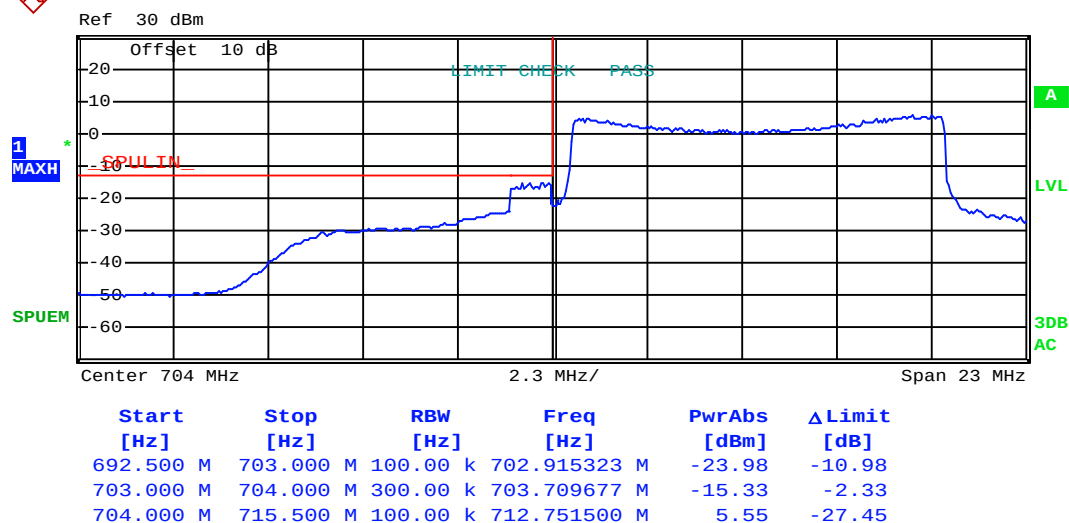
Lowest channel



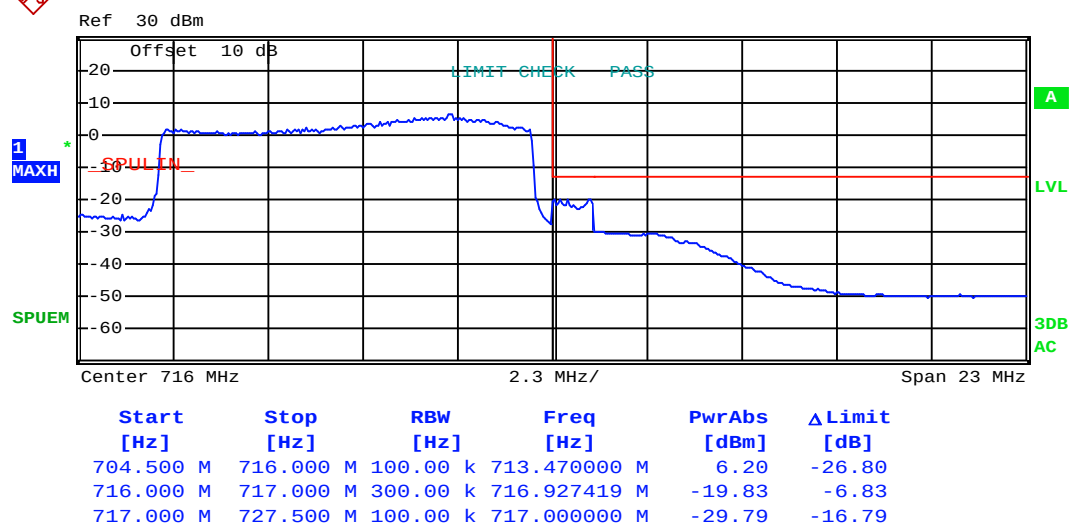
Highest channel

Test Mode:

LTE band 17(16QAM RB Size 50 & RB Offset 0)

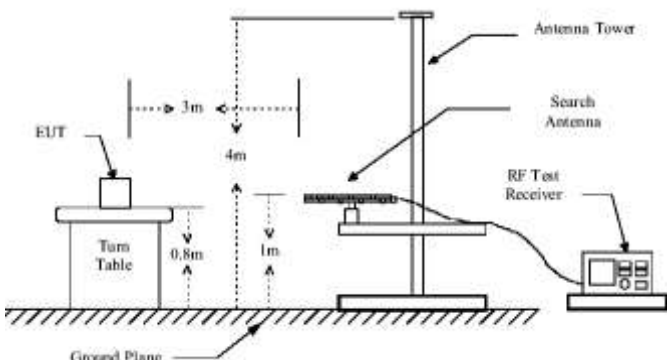
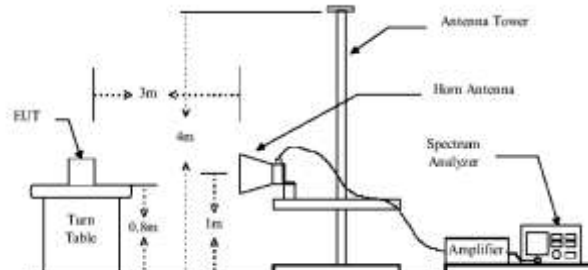
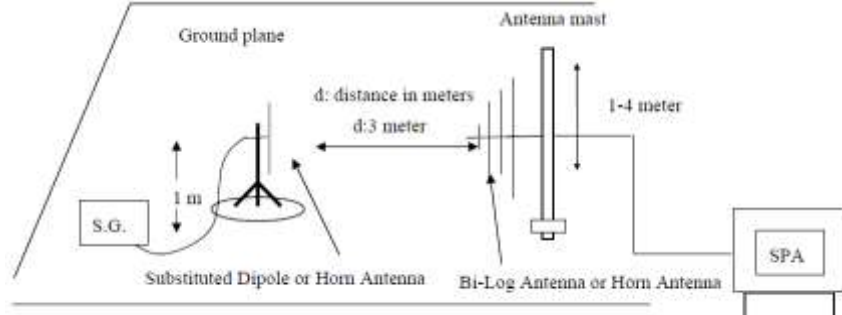


Lowest channel



Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 24.232 (c), part 27.50(c) and part 27.50(h)
Test Method:	FCC part 2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 17: 3W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. EIRP in frequency band 1850.7 –1909.3MHz, 1710.7-1754.3 MHz and 706.5-713..5 MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 4. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case)

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	23.24	30.00	Pass
					H	17.98		
1850.70	18607	16QAM	1.4	H	V	23.54		
					H	17.83		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	22.95	30.00	Pass
					H	17.91		
1850.70	18607	16QAM	1.4	H	V	22.85		
					H	18.14		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	22.48	30.00	Pass
					H	17.26		
1850.70	18607	16QAM	1.4	H	V	22.51		
					H	17.01		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	22.46	30.00	Pass
					H	17.53		
1880.00	18900	16QAM	1.4	H	V	22.52		
					H	17.33		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	22.25	30.00	Pass
					H	16.95		
1880.00	18900	16QAM	1.4	H	V	22.41		
					H	17.07		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	21.20	30.00	Pass
					H	15.99		
1880.00	18900	16QAM	1.40	H	V	21.56		
					H	16.49		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	22.28	30.00	Pass
					H	16.46		
1909.30	19193	16QAM	1.4	H	V	22.31		
					H	16.55		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	22.38	30.00	Pass
					H	16.11		
1909.30	19193	16QAM	1.4	H	V	22.55		
					H	16.25		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.72	30.00	Pass
					H	15.76		
1909.30	19193	16QAM	1.4	H	V	21.78		
					H	15.88		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	23.29	30.00	Pass
					H	18.70		
1860.00	18700	16QAM	20	H	V	23.44		
					H	17.68		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.91	30.00	Pass
					H	17.81		
1860.00	18700	16QAM	20	H	V	23.14		
					H	17.68		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	21.73	30.00	Pass
					H	16.93		
1860.00	18700	16QAM	20	H	V	22.24		
					H	17.17		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	24.39	30.00	Pass
					H	19.11		
1880.00	18900	16QAM	20	H	V	24.59		
					H	18.87		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	23.28	30.00	Pass
					H	18.21		
1880.00	18900	16QAM	20	H	V	23.66		
					H	18.16		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	21.52	30.00	Pass
					H	16.55		
1880.00	18900	16QAM	20	H	V	22.19		
					H	16.67		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.11	30.00	Pass
					H	15.94		
1900.00	19100	16QAM	20	H	V	22.25		
					H	15.62		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.31	30.00	Pass
					H	15.87		
1900.00	19100	16QAM	20	H	V	22.41		
					H	15.63		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	21.56	30.00	Pass
					H	15.27		
1900.00	19100	16QAM	20	H	V	22.12		
					H	15.48		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.64	30.00	Pass
					H	14.42		
1710.70	19957	16QAM	1.4	H	V	21.24		
					H	14.78		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	19.75	30.00	Pass
					H	14.80		
1710.70	19957	16QAM	1.4	H	V	20.04		
					H	15.22		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	18.56	30.00	Pass
					H	14.08		
1710.70	19957	16QAM	1.4	H	V	19.57		
					H	13.98		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	19957	QPSK	1.4	H	V	21.11	30.00	Pass
					H	15.09		
1732.50	19957	16QAM	1.4	H	V	21.68		
					H	15.50		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	19957	QPSK	1.4	H	V	20.49	30.00	Pass
					H	15.68		
1732.50	19957	16QAM	1.4	H	V	21.36		
					H	15.65		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	19957	QPSK	1.4	H	V	20.02	30.00	Pass
					H	14.71		
1732.50	19957	16QAM	1.4	H	V	20.81		
					H	14.68		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	19957	QPSK	1.4	H	V	21.10	30.00	Pass
					H	15.33		
1754.30	19957	16QAM	1.4	H	V	21.62		
					H	15.93		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	19957	QPSK	1.4	H	V	21.05	30.00	Pass
					H	15.46		
1754.30	19957	16QAM	1.4	H	V	21.88		
					H	15.83		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	19957	QPSK	1.4	H	V	21.23	30.00	Pass
					H	15.28		
1754.30	19957	16QAM	1.4	H	V	21.93		
					H	15.39		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	20.27	30.00	Pass
					H	14.88		
1720.00	20050	16QAM	20	H	V	20.78		
					H	15.24		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	20.56	30.00	Pass
					H	15.10		
1720.00	20050	16QAM	20	H	V	21.51		
					H	15.81		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	18.38	30.00	Pass
					H	12.83		
1720.00	20050	16QAM	20	H	V	19.64		
					H	14.00		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.34	30.00	Pass
					H	15.26		
1732.50	20175	16QAM	20	H	V	21.05		
					H	15.81		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.95	30.00	Pass
					H	15.37		
1732.50	20175	16QAM	20	H	V	21.88		
					H	16.04		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	18.85	30.00	Pass
					H	13.42		
1732.50	20175	16QAM	20	H	V	20.17		
					H	14.22		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.64	30.00	Pass
					H	15.53		
1745.00	20300	16QAM	20	H	V	22.09		
					H	16.24		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.34	30.00	Pass
					H	16.19		
1745.00	20300	16QAM	20	H	V	22.37		
					H	16.69		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.63	30.00	Pass
					H	13.73		
1745.00	20300	16QAM	20	H	V	22.21		
					H	14.83		

**LTE band 17 part
Lowest channel**

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	12.84	30.00	Pass
					H	10.71		
706.50	23755	16QAM	5	H	V	12.80		
					H	11.01		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	11.45	30.00	Pass
					H	9.62		
706.50	23755	16QAM	5	H	V	10.78		
					H	10.30		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	11.31	30.00	Pass
					H	9.13		
706.50	23755	16QAM	5	H	V	11.73		
					H	9.52		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	12.35	30.00	Pass
					H	10.09		
710.00	23790	16QAM	5	H	V	12.22		
					H	10.28		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	13.61	30.00	Pass
					H	10.13		
710.00	23790	16QAM	5	H	V	13.41		
					H	10.89		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	12.47	30.00	Pass
					H	10.06		
710.00	23790	16QAM	5	H	V	12.78		
					H	10.11		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	14.37	30.00	Pass
					H	12.36		
713.50	23825	16QAM	5	H	V	14.46		
					H	12.95		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	13.78	30.00	Pass
					H	11.99		
713.50	23825	16QAM	5	H	V	13.69		
					H	12.33		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	11.34	30.00	Pass
					H	10.09		
713.50	23825	16QAM	5	H	V	11.89		
					H	10.67		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	11.53	30.00	Pass
					H	10.10		
709.00	23780	16QAM	10	H	V	11.90		
					H	9.41		
10MHz(RB size 25 & RB offset 0)								
709.00	23780	QPSK	10	H	V	13.19	30.00	Pass
					H	11.12		
709.00	23780	16QAM	10	H	V	13.61		
					H	12.76		
10MHz(RB size 50 & RB offset 0)								
709.00	23780	QPSK	10	H	V	11.85	30.00	Pass
					H	12.01		
709.00	23780	16QAM	10	H	V	12.00		
					H	12.96		

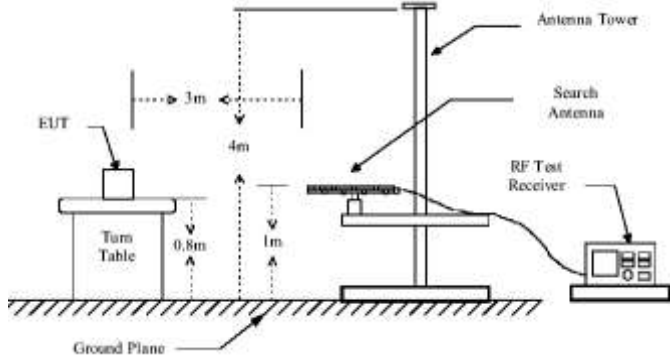
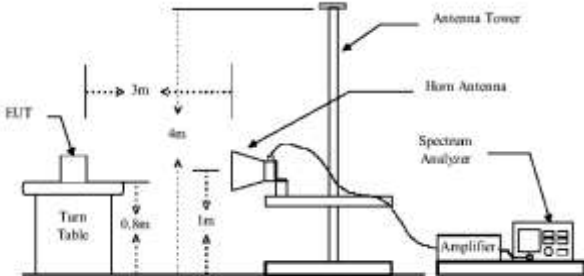
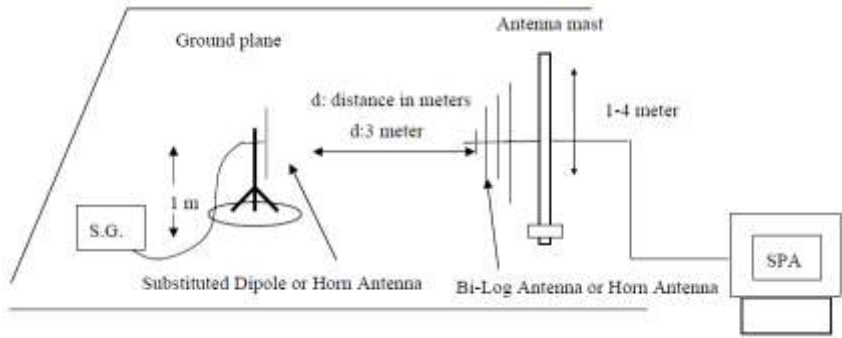
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	11.47	30.00	Pass
					H	10.85		
710.00	23790	16QAM	10	H	V	10.62		
					H	9.76		
10MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	10	H	V	13.77	30.00	Pass
					H	11.92		
710.00	23790	16QAM	10	H	V	14.04		
					H	13.03		
10MHz(RB size 50 & RB offset 0)								
710.00	23790	QPSK	10	H	V	11.98	30.00	Pass
					H	13.25		
710.00	23790	16QAM	10	H	V	13.87		
					H	12.78		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	11.32	30.00	Pass
					H	10.36		
711.00	23800	16QAM	10	H	V	11.35		
					H	9.72		
10MHz(RB size 25 & RB offset 0)								
711.00	23800	QPSK	10	H	V	14.61	30.00	Pass
					H	13.48		
711.00	23800	16QAM	10	H	V	14.84		
					H	13.74		
10MHz(RB size 50 & RB offset 0)								
711.00	23800	QPSK	10	H	V	13.38	30.00	Pass
					H	12.07		
711.00	23800	16QAM	10	H	V	13.74		
					H	12.56		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a), part 27.53(g) and part 27.53(m)
Test Method:	FCC part 2.1053
Limit:	LTE Band 2, LTE Band 4: -13dBm LTE Band 17: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission

	was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case)**Below 1GHz:**

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

LTE band 2 part 2

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-44.01	-13.00	Pass
5552.10	V	-23.51		
7402.00	V	-38.30		
3701.40	Horizontal	-41.60		
5552.10	H	-20.31		
7402.00	H	-38.35		
Middle				
3760.00	Vertical	-39.94	-13.00	Pass
5640.00	V	-25.39		
7520.00	V	-41.15		
3760.00	Horizontal	-39.98		
5640.00	H	-23.88		
7520.00	H	-38.13		
Highest				
3816.60	Vertical	-41.09	-13.00	Pass
5724.90	V	-21.70		
7633.20	V	-38.55		
3816.60	Horizontal	-40.46		
5724.90	H	-26.27		
7633.20	H	-37.20		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-42.23	-13.00	Pass
5554.50	V	-19.37		
7406.00	V	-37.13		
3703.00	Horizontal	-42.79		
5554.50	H	-18.92		
7406.00	H	-38.75		
Middle				
3760.00	Vertical	-41.01	-13.00	Pass
5640.00	V	-25.94		
7520.00	V	-39.43		
3760.00	Horizontal	-39.30		
5640.00	H	-24.23		
7520.00	H	-39.45		

Highest				
3817.00	Vertical	-34.06	-13.00	Pass
5725.50	V	-21.28		
7634.00	V	-37.77		
3817.00	Horizontal	-40.20		
5725.50	H	-23.32		
7634.00	H	-36.92		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-42.27	-13.00	Pass
5557.50	V	-23.77		
7410.00	V	-37.89		
3705.00	Horizontal	-43.04		
5557.50	H	-22.04		
7410.00	H	-38.07		
Middle				
3760.00	Vertical	-38.53	-13.00	Pass
5640.00	V	-25.03		
7520.00	V	-39.58		
3760.00	Horizontal	-38.93		
5640.00	H	-24.24		
7520.00	H	-39.62		
Highest				
3815.00	Vertical	-36.88	-13.00	Pass
5722.50	V	-24.69		
7630.00	V	-39.46		
3815.00	Horizontal	-39.05		
5722.50	H	-24.73		
7630.00	H	-37.43		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-39.37	-13.00	Pass
5565.00	V	-21.21		
7420.00	V	-38.02		
3710.00	Horizontal	-41.84		
5565.00	H	-24.99		
7420.00	H	-38.19		

Middle				
3760.00	Vertical	-39.17	-13.00	Pass
5640.00	V	-24.23		
7520.00	V	-38.74		
3760.00	Horizontal	-37.45		
5640.00	H	-22.33		
7520.00	H	-37.89		
Highest				
3810.00	Vertical	-37.17	-13.00	Pass
5715.00	V	-26.28		
7620.00	V	-38.80		
3810.00	Horizontal	-41.56		
5715.00	H	-25.44		
7620.00	H	-39.40		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-42.59	-13.00	Pass
5572.50	V	-23.30		
7430.00	V	-38.40		
3715.00	Horizontal	-42.62		
5572.50	H	-19.69		
7430.00	H	-38.23		
Middle				
3760.00	Vertical	-36.67	-13.00	Pass
5640.00	V	-24.08		
7520.00	V	-38.79		
3760.00	Horizontal	-37.53		
5640.00	H	-24.55		
7520.00	H	-39.52		
Highest				
3805.00	Vertical	-39.35	-13.00	Pass
5707.50	V	-23.69		
7610.00	V	-39.20		
3805.00	Horizontal	-38.08		
5707.50	H	-25.18		
7610.00	H	-38.06		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-39.13	-13.00	Pass
5580.00	V	-20.60		
7440.00	V	-37.76		
3720.00	Horizontal	-39.81		
5580.00	H	-22.48		
7440.00	H	-38.45		
Middle				
3760.00	Vertical	-38.84	-13.00	Pass
5640.00	V	-22.09		
7520.00	V	-39.06		
3760.00	Horizontal	-37.72		
5640.00	H	-19.85		
7520.00	H	-38.88		
Highest				
3800.00	Vertical	-38.24	-13.00	Pass
5700.00	V	-26.85		
7600.00	V	-39.27		
3800.00	Horizontal	-41.79		
5700.00	H	-24.15		
7600.00	H	-37.72		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-41.18	-13.00	Pass
5132.10	V	-35.75		
6842.80	V	-39.80		
3421.40	Horizontal	-39.27		
5132.10	H	-29.03		
6842.80	H	-38.92		
Middle				
3465.00	Vertical	-42.85	-13.00	Pass
5197.50	V	-33.93		
6930.00	V	-36.88		
3465.00	Horizontal	-43.21		
5197.50	H	-34.03		
6930.00	H	-37.88		
Highest				
3508.60	Vertical	-45.03	-13.00	Pass
5262.90	V	-33.15		
7017.20	V	-38.10		
3508.60	Horizontal	-41.04		
5262.90	H	-30.18		
7017.20	H	-37.61		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-41.93	-13.00	Pass
5134.50	V	-34.21		
6846.00	V	-38.84		
3423.00	Horizontal	-38.94		
5134.50	H	-32.57		
6846.00	H	-39.32		
Middle				
3465.00	Vertical	-44.25	-13.00	Pass
5197.50	V	-33.52		
6930.00	V	-37.47		
3465.00	Horizontal	-41.94		
5197.50	H	-33.62		
6930.00	H	-37.31		

Highest				
3507.00	Vertical	-42.97	-13.00	Pass
5260.50	V	-30.50		
7014.00	V	-37.01		
3507.00	Horizontal	-41.14		
5260.50	H	-28.41		
7014.00	H	-38.27		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-42.05	-13.00	Pass
5137.50	V	-32.38		
6850.00	V	-39.16		
3425.00	Horizontal	-47.40		
5137.50	H	-31.44		
6850.00	H	-39.60		
Middle				
3465.00	Vertical	-44.05	-13.00	Pass
5197.50	V	-31.37		
6930.00	V	-38.19		
3465.00	Horizontal	-41.88		
5197.50	H	-30.45		
6930.00	H	-38.44		
Highest				
3505.00	Vertical	-44.25	-13.00	Pass
5257.50	V	-28.06		
7010.00	V	-38.33		
3505.00	Horizontal	-41.35		
5257.50	H	-27.91		
7010.00	H	-39.26		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-41.90	-13.00	Pass
5145.00	V	-31.29		
6860.00	V	-39.64		
3430.00	Horizontal	-40.14		
5145.00	H	-28.23		
6860.00	H	-36.68		

Middle				
3465.00	Vertical	-43.86	-13.00	Pass
5197.50	V	-32.49		
6930.00	V	-37.53		
3465.00	Horizontal	-42.27		
5197.50	H	-32.24		
6930.00	H	-37.14		
Highest				
3500.00	Vertical	-41.50	-13.00	Pass
5250.00	V	-24.48		
7000.00	V	-37.43		
3500.00	Horizontal	-40.17		
5250.00	H	-27.42		
7000.00	H	-37.65		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-43.37	-13.00	Pass
5152.50	V	-34.10		
6870.00	V	-38.09		
3435.00	Horizontal	-38.20		
5152.50	H	-27.90		
6870.00	H	-34.61		
Middle				
3465.00	Vertical	-43.59	-13.00	Pass
5197.50	V	-33.46		
6930.00	V	-38.96		
3465.00	Horizontal	-42.31		
5197.50	H	-30.50		
6930.00	H	-38.92		
Highest				
3495.00	Vertical	-41.08	-13.00	Pass
5242.50	V	-25.45		
6990.00	V	-37.53		
3495.00	Horizontal	-39.60		
5242.50	H	-23.69		
6990.00	H	-35.69		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-40.86	-13.00	Pass
5160.00	V	-28.01		
6880.00	V	-38.79		
3440.00	Horizontal	-38.68		
5160.00	H	-30.18		
6880.00	H	-37.51		
Middle				
3465.00	Vertical	-45.39	-13.00	Pass
5197.50	V	-31.90		
6930.00	V	-38.35		
3465.00	Horizontal	-42.60		
5197.50	H	-31.95		
6930.00	H	-37.04		
Highest				
3490.00	Vertical	-42.00	-13.00	Pass
5235.00	V	-29.04		
6980.00	V	-37.59		
3490.00	Horizontal	-40.26		
5235.00	H	-29.78		
6980.00	H	-38.13		

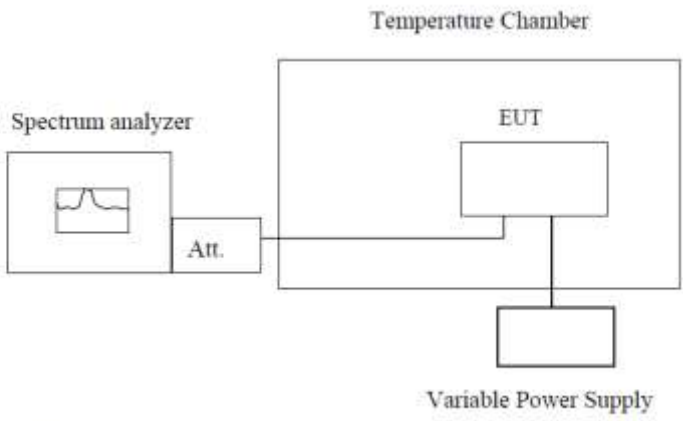
LTE Band 17 Part:

5MHz(RB size 1 & RB offset 0) for QPSK

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-54.84	-13.00	Pass
2119.50	V	-53.99		
2826.00	V	-50.87		
1413.00	Horizontal	-57.25		
2119.50	H	-58.63		
2826.00	H	-53.38		
Middle				
1420.00	Vertical	-49.69	-13.00	Pass
2130.00	V	-47.54		
2840.00	V	-48.26		
1420.00	Horizontal	-51.39		
2130.00	H	-51.60		
2840.00	H	-49.75		
Highest				
1427.00	Vertical	-49.69	-13.00	Pass
2140.50	V	-48.84		
2854.00	V	-51.43		
1427.00	Horizontal	-49.27		
2140.50	H	-55.42		
2854.00	H	-51.02		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-57.85	-13.00	Pass
2127.00	V	-56.09		
2836.00	V	-51.32		
1418.00	Horizontal	-57.16		
2127.00	H	-55.83		
2836.00	H	-51.84		
Middle				
1420.00	Vertical	-52.03	-13.00	Pass
2130.00	V	-52.75		
2840.00	V	-51.48		
1420.00	Horizontal	-56.51		
2130.00	H	-54.31		
2840.00	H	-51.59		
Highest				
1422.00	Vertical	-50.58	-13.00	Pass
2133.00	V	-51.82		
2844.00	V	-51.71		
1422.00	Horizontal	-54.06		
2133.00	H	-54.65		
2844.00	H	-51.81		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	179	0.095213	±2.5	Pass
	-20	122	0.064894		
	-10	127	0.067553		
	0	150	0.079787		
	10	87	0.046277		
	20	122	0.064894		
	30	128	0.068085		
	40	146	0.077660		
	50	83	0.044149		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	125	0.066489	±2.5	Pass
	-20	162	0.086170		
	-10	145	0.077128		
	0	104	0.055319		
	10	110	0.058511		
	20	102	0.054255		
	30	135	0.071809		
	40	124	0.065957		
	50	156	0.082979		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	118	0.062766	±2.5	Pass
	-20	105	0.055851		
	-10	71	0.037766		
	0	52	0.027660		
	10	67	0.035638		
	20	73	0.038830		
	30	55	0.029255		
	40	96	0.051064		
	50	102	0.054255		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	83	0.044149	±2.5	Pass
	-20	109	0.057979		
	-10	62	0.032979		
	0	98	0.052128		
	10	127	0.067553		
	20	101	0.053723		
	30	88	0.046809		
	40	132	0.070213		
	50	86	0.045745		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	98	0.052128	±2.5	Pass
	-20	81	0.043085		
	-10	77	0.040957		
	0	106	0.056383		
	10	52	0.027660		
	20	128	0.068085		
	30	99	0.052660		
	40	101	0.053723		
	50	93	0.049468		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	138	0.073404	±2.5	Pass
	-20	142	0.075532		
	-10	116	0.061702		
	0	95	0.050532		
	10	49	0.026064		
	20	91	0.048404		
	30	73	0.038830		
	40	105	0.055851		
	50	108	0.057447		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	117	0.062234	±2.5	Pass
	-20	102	0.054255		
	-10	124	0.065957		
	0	147	0.078191		
	10	90	0.047872		
	20	134	0.071277		
	30	127	0.067553		
	40	122	0.064894		
	50	105	0.055851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	116	0.061702	±2.5	Pass
	-20	133	0.070745		
	-10	122	0.064894		
	0	97	0.051596		
	10	108	0.057447		
	20	121	0.064362		
	30	149	0.079255		
	40	105	0.055851		
	50	121	0.064362		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	134	0.071277	±2.5	Pass
	-20	87	0.046277		
	-10	92	0.048936		
	0	106	0.056383		
	10	118	0.062766		
	20	111	0.059043		
	30	122	0.064894		
	40	133	0.070745		
	50	118	0.062766		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	92	0.048936	±2.5	Pass
	-20	128	0.068085		
	-10	77	0.040957		
	0	91	0.048404		
	10	115	0.061170		
	20	106	0.056383		
	30	98	0.052128		
	40	122	0.064894		
	50	97	0.051596		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	101	0.053723	±2.5	Pass
	-20	98	0.052128		
	-10	87	0.046277		
	0	123	0.065426		
	10	132	0.070213		
	20	105	0.055851		
	30	81	0.043085		
	40	128	0.068085		
	50	81	0.043085		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	122	0.064894	±2.5	Pass
	-20	158	0.084043		
	-10	127	0.067553		
	0	104	0.055319		
	10	72	0.038298		
	20	88	0.046809		
	30	99	0.052660		
	40	115	0.061170		
	50	94	0.050000		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	171	0.098701	±2.5	Pass
	-20	128	0.073882		
	-10	123	0.070996		
	0	152	0.087734		
	10	87	0.050216		
	20	125	0.072150		
	30	121	0.069841		
	40	145	0.083694		
	50	84	0.048485		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	128	0.073882	±2.5	Pass
	-20	163	0.094084		
	-10	142	0.081962		
	0	108	0.062338		
	10	111	0.064069		
	20	107	0.061760		
	30	139	0.080231		
	40	128	0.073882		
	50	152	0.087734		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	111	0.064069	±2.5	Pass
	-20	107	0.061760		
	-10	75	0.043290		
	0	53	0.030592		
	10	65	0.037518		
	20	79	0.045599		
	30	55	0.031746		
	40	94	0.054257		
	50	108	0.062338		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	88	0.050794	±2.5	Pass
	-20	103	0.059452		
	-10	67	0.038672		
	0	91	0.052525		
	10	128	0.073882		
	20	105	0.060606		
	30	82	0.047330		
	40	139	0.080231		
	50	87	0.050216		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	92	0.053102	±2.5	Pass
	-20	83	0.047908		
	-10	77	0.044444		
	0	101	0.058297		
	10	59	0.034055		
	20	125	0.072150		
	30	98	0.056566		
	40	103	0.059452		
	50	98	0.056566		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	131	0.075613	±2.5	Pass
	-20	148	0.085426		
	-10	112	0.064646		
	0	96	0.055411		
	10	48	0.027706		
	20	91	0.052525		
	30	79	0.045599		
	40	102	0.058874		
	50	101	0.058297		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	143	0.082540	±2.5	Pass
	-20	107	0.061760		
	-10	125	0.072150		
	0	149	0.086003		
	10	92	0.053102		
	20	137	0.079076		
	30	121	0.069841		
	40	128	0.073882		
	50	102	0.058874		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	113	0.065224	±2.5	Pass
	-20	138	0.079654		
	-10	124	0.071573		
	0	97	0.055988		
	10	102	0.058874		
	20	126	0.072727		
	30	143	0.082540		
	40	101	0.058297		
	50	125	0.072150		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	132	0.076190	±2.5	Pass
	-20	88	0.050794		
	-10	91	0.052525		
	0	103	0.059452		
	10	118	0.068110		
	20	112	0.064646		
	30	124	0.071573		
	40	137	0.079076		
	50	116	0.066955		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	92	0.053102	±2.5	Pass
	-20	126	0.072727		
	-10	73	0.042136		
	0	97	0.055988		
	10	115	0.066378		
	20	101	0.058297		
	30	98	0.056566		
	40	125	0.072150		
	50	93	0.053680		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	105	0.060606	±2.5	Pass
	-20	98	0.056566		
	-10	81	0.046753		
	0	127	0.073304		
	10	135	0.077922		
	20	109	0.062915		
	30	82	0.047330		
	40	125	0.072150		
	50	81	0.046753		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	122	0.070418	±2.5	Pass
	-20	155	0.089466		
	-10	121	0.069841		
	0	108	0.062338		
	10	74	0.042713		
	20	88	0.050794		
	30	97	0.055988		
	40	111	0.064069		
	50	96	0.055411		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	178	0.250704	±2.5	Pass
	-20	121	0.170423		
	-10	92	0.129577		
	0	78	0.109859		
	10	93	0.130986		
	20	87	0.122535		
	30	62	0.087324		
	40	88	0.123944		
	50	111	0.156338		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	99	0.139437	±2.5	Pass
	-20	156	0.219718		
	-10	127	0.178873		
	0	131	0.184507		
	10	98	0.138028		
	20	85	0.119718		
	30	93	0.130986		
	40	102	0.143662		
	50	91	0.128169		

LTE Band 17(16QAM):

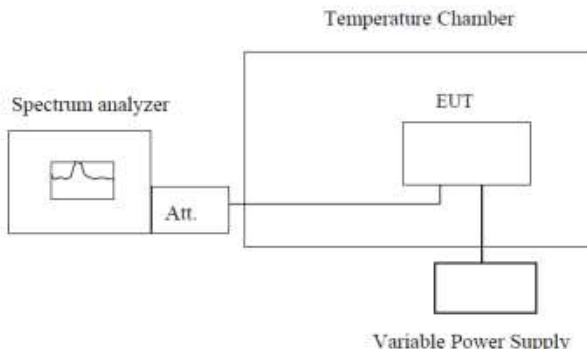
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	149	0.209859	±2.5	Pass
	-20	91	0.128169		
	-10	87	0.122535		
	0	65	0.091549		
	10	72	0.101408		
	20	88	0.123944		
	30	103	0.145070		
	40	135	0.190141		
	50	84	0.118310		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	112	0.157746	±2.5	Pass
	-20	98	0.138028		
	-10	82	0.115493		
	0	73	0.102817		
	10	157	0.221127		
	20	104	0.146479		
	30	95	0.133803		
	40	136	0.191549		
	50	98	0.138028		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	142	0.075532	±2.5	Pass
	3.70	81	0.043085		
	3.40	58	0.030851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	72	0.038298	±2.5	Pass
	3.70	94	0.050000		
	3.40	87	0.046277		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.032447	±2.5	Pass
	3.70	52	0.027660		
	3.40	108	0.057447		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.050532	±2.5	Pass
	3.70	89	0.047340		
	3.40	61	0.032447		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	62	0.032979	±2.5	Pass
	3.70	77	0.040957		
	3.40	92	0.048936		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.035106	±2.5	Pass
	3.70	85	0.045213		
	3.40	71	0.037766		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	106	0.056383	±2.5	Pass
	3.70	72	0.038298		
	3.40	98	0.052128		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	81	0.043085	±2.5	Pass
	3.70	107	0.056915		
	3.40	73	0.038830		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	82	0.043617	±2.5	Pass
	3.70	74	0.039362		
	3.40	88	0.046809		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.050532	±2.5	Pass
	3.70	92	0.048936		
	3.40	88	0.046809		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	51	0.027128	±2.5	Pass
	3.70	76	0.040426		
	3.40	87	0.046277		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	89	0.047340	±2.5	Pass
	3.70	105	0.055851		
	3.40	111	0.059043		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	158	0.091198	±2.5	Pass
	3.70	87	0.050216		
	3.40	54	0.031169		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	79	0.045599	±2.5	Pass
	3.70	96	0.055411		
	3.40	81	0.046753		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	62	0.035786	±2.5	Pass
	3.70	58	0.033478		
	3.40	101	0.058297		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	97	0.055988	±2.5	Pass
	3.70	86	0.049639		
	3.40	68	0.039250		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.037518	±2.5	Pass
	3.70	74	0.042713		
	3.40	97	0.055988		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	68	0.039250	±2.5	Pass
	3.70	86	0.049639		
	3.40	71	0.040981		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	101	0.058297	±2.5	Pass
	3.70	75	0.043290		
	3.40	97	0.055988		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	87	0.050216	±2.5	Pass
	3.70	106	0.061183		
	3.40	71	0.040981		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.050794	±2.5	Pass
	3.70	71	0.040981		
	3.40	86	0.049639		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	91	0.052525	±2.5	Pass
	3.70	97	0.055988		
	3.40	82	0.047330		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	58	0.033478	±2.5	Pass
	3.70	71	0.040981		
	3.40	89	0.051371		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	108	0.062338		
	3.40	111	0.064069		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	158	0.222535	±2.5	Pass
	3.70	87	0.122535		
	3.40	44	0.061972		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.091549	±2.5	Pass
	3.70	89	0.125352		
	3.40	86	0.121127		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	91	0.128169	±2.5	Pass
	3.70	87	0.122535		
	3.40	55	0.077465		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	72	0.101408	±2.5	Pass
	3.70	97	0.136620		
	3.40	105	0.147887		