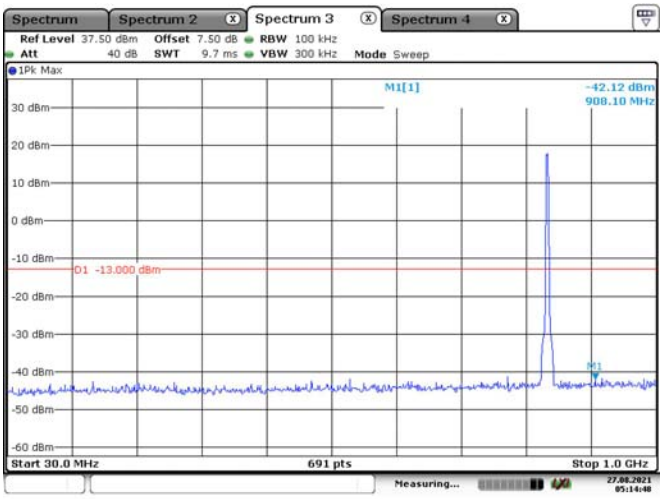
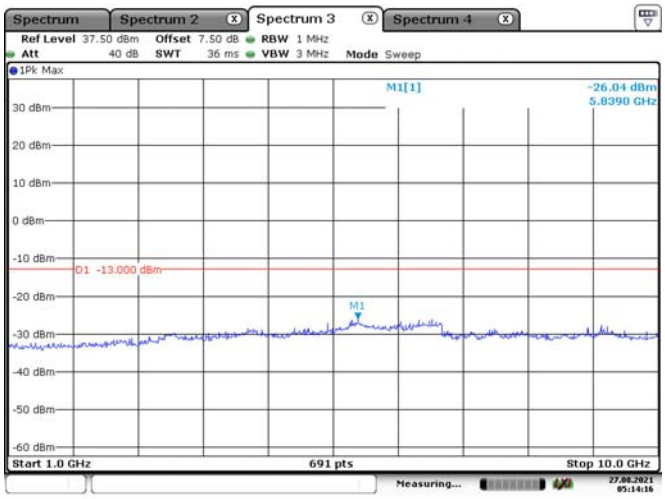
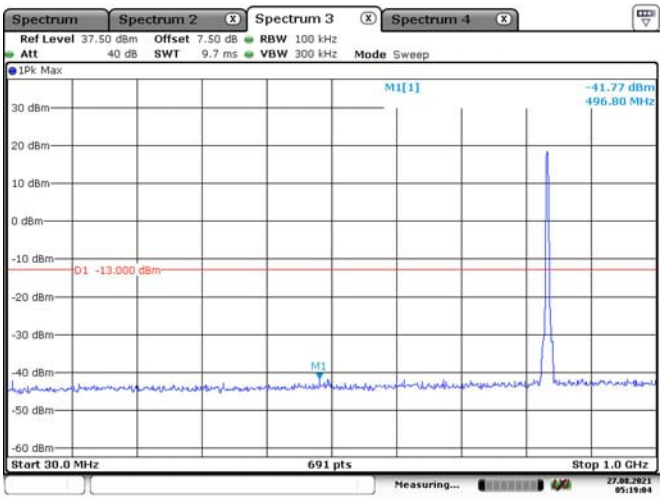
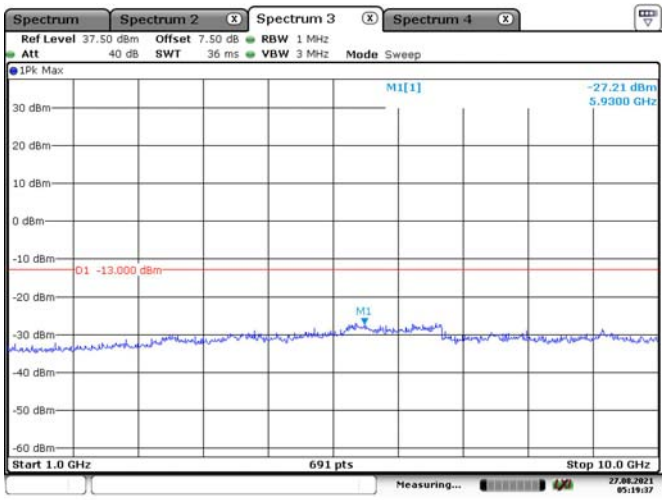
WCDMA Band V, R99, Low Channel



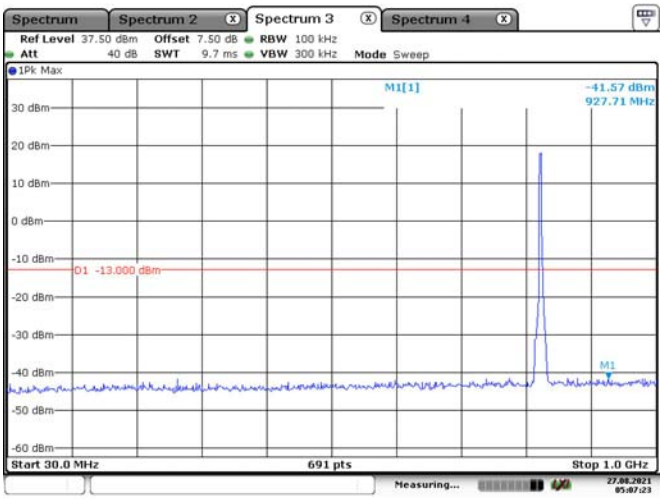


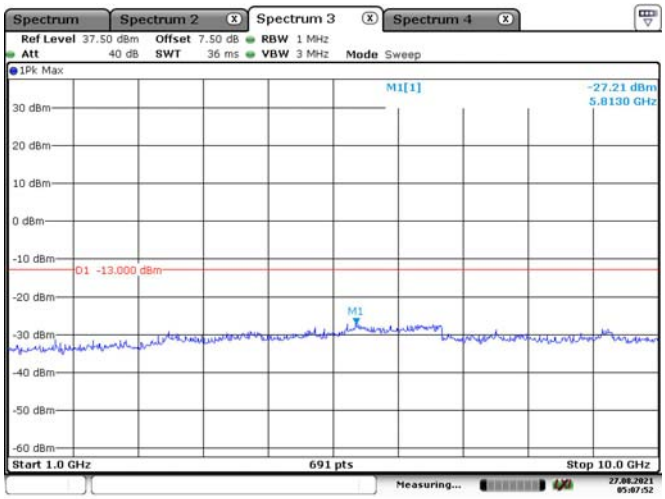
WCDMA Band V, R99, Middle Channel





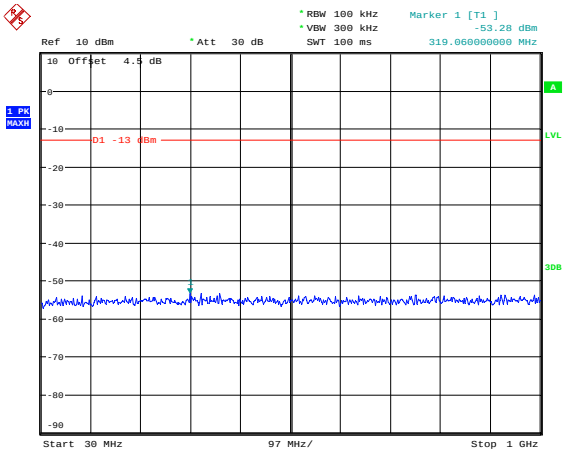
WCDMA Band V, R99, High Channel



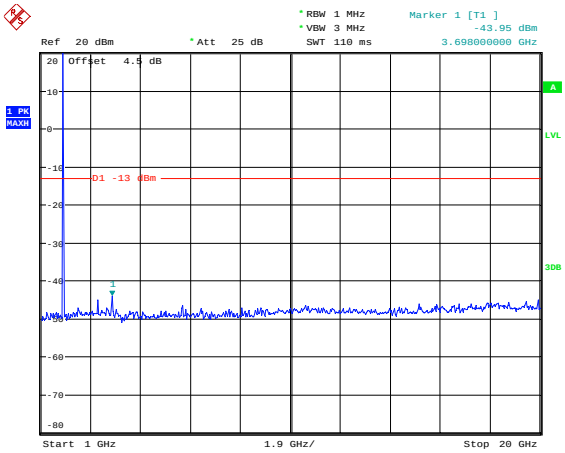


LTE Band 2:

1.4M, QPSK, Low Channel



Date: 25.AUG.2021 13:17:52



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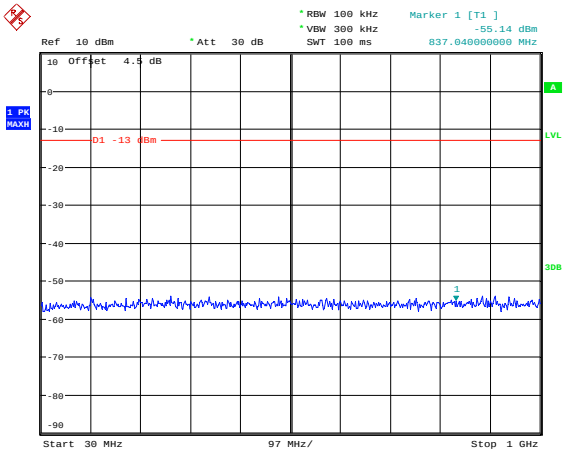
1.4M, QPSK, Middle Channel



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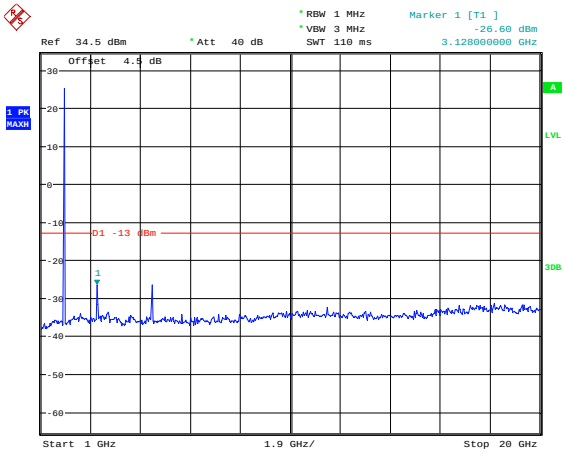

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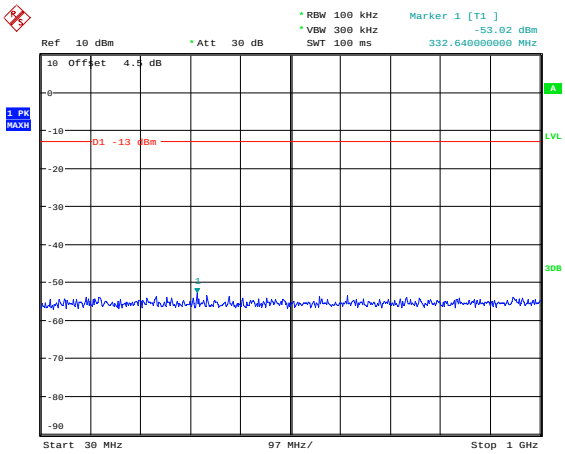
1.4M, QPSK, High Channel



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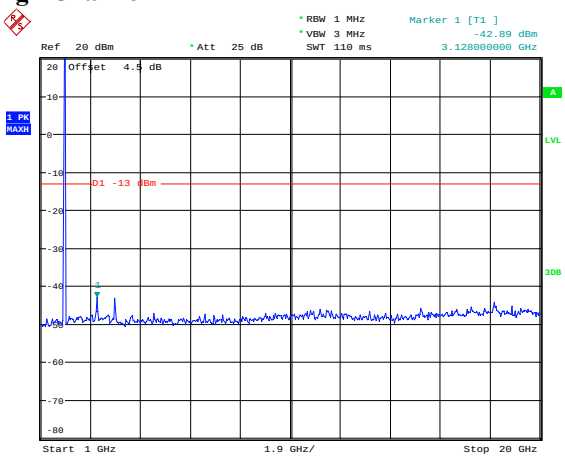

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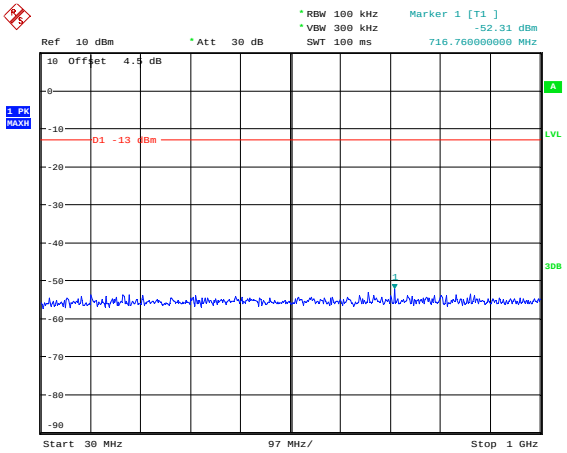
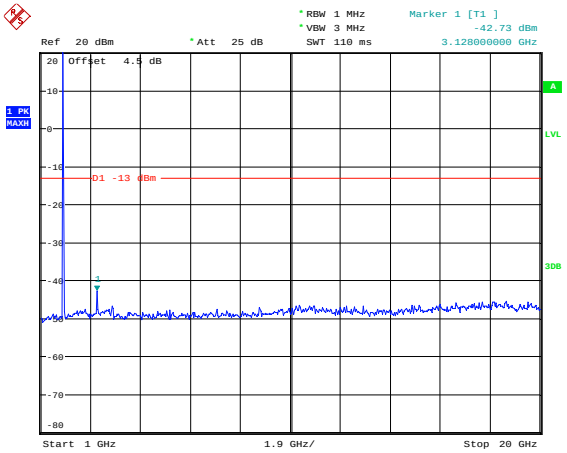
3M, QPSK, Low Channel



Date: 25.AUG.2021 13:20:03



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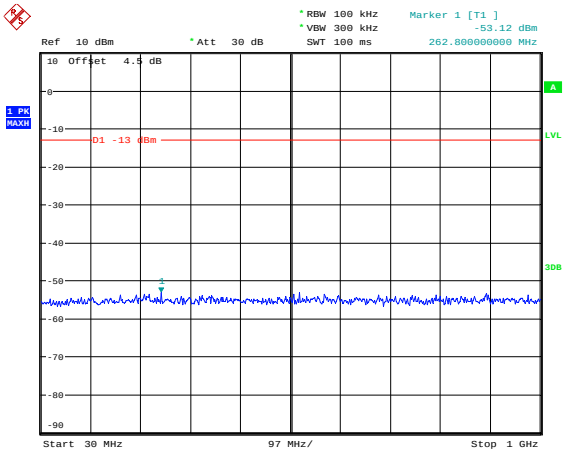
3M, QPSK, Middle Channel



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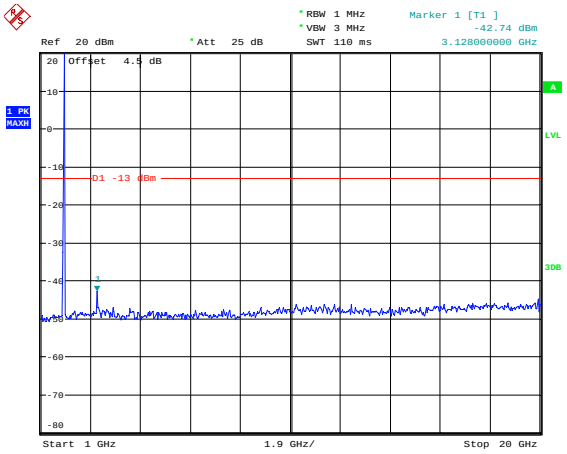
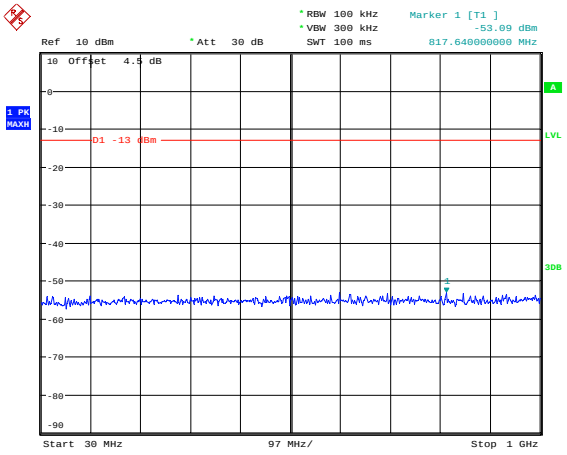


Date: 25.AUG.2021 13:20:52

3M, QPSK, High Channel



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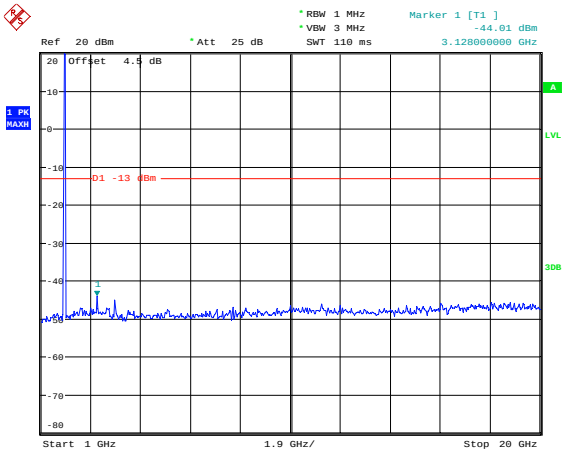

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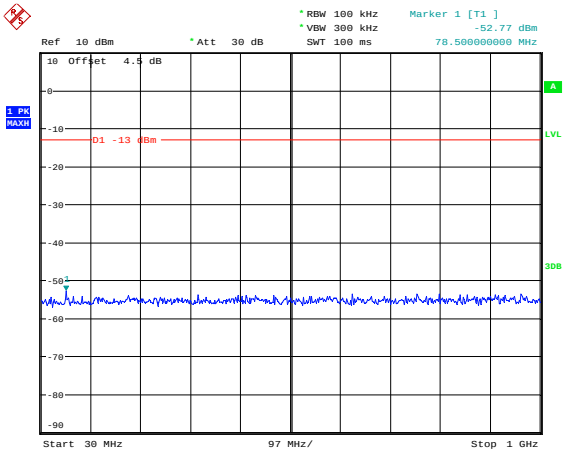
5M, QPSK, Low Channel



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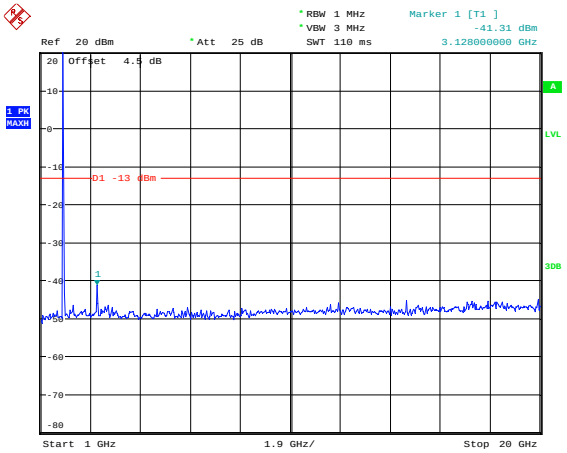

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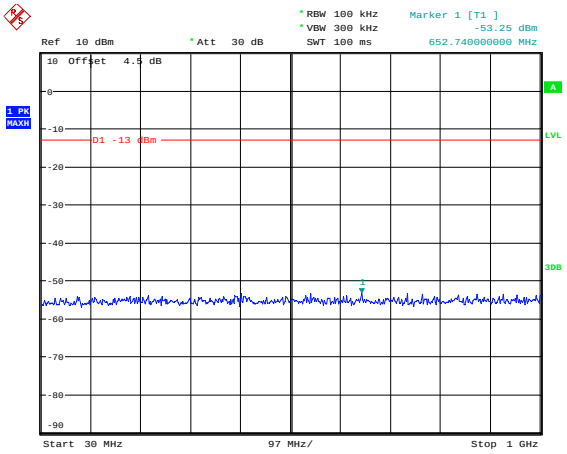
5M, QPSK, Middle Channel



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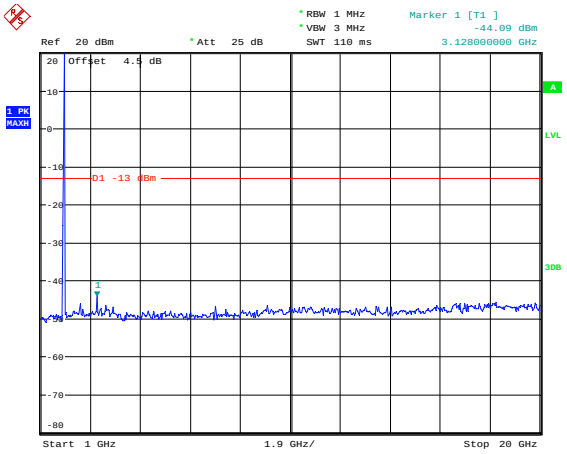

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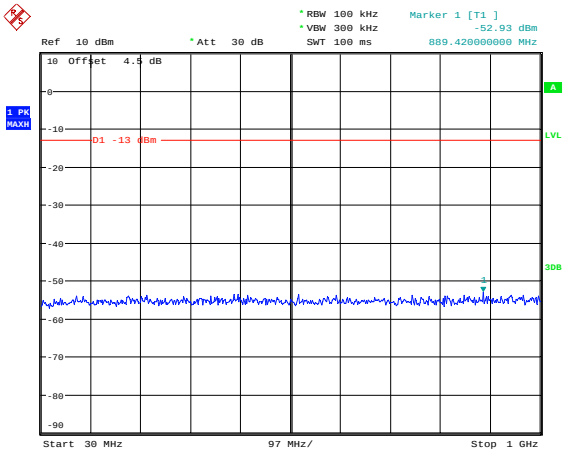
5M, QPSK, High Channel



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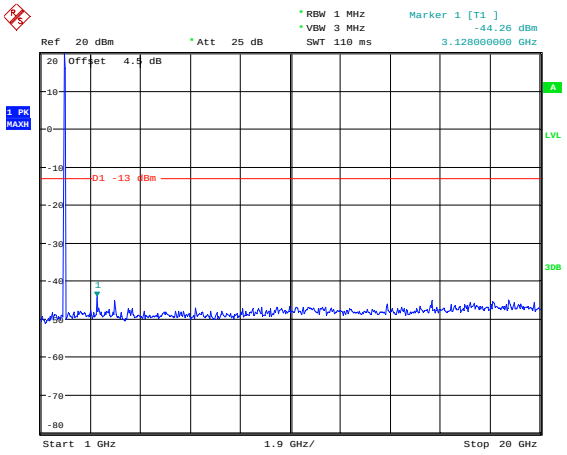

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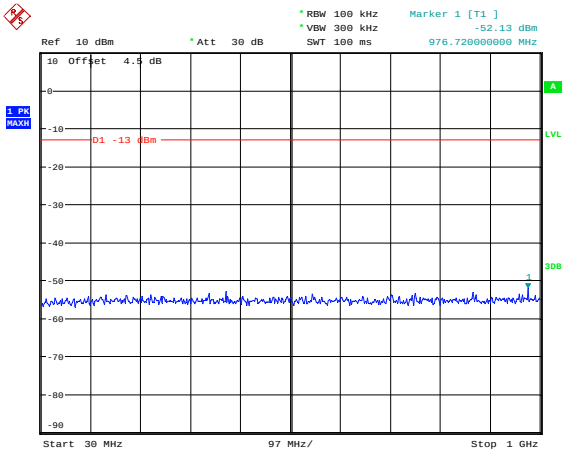
10M, QPSK, Low Channel



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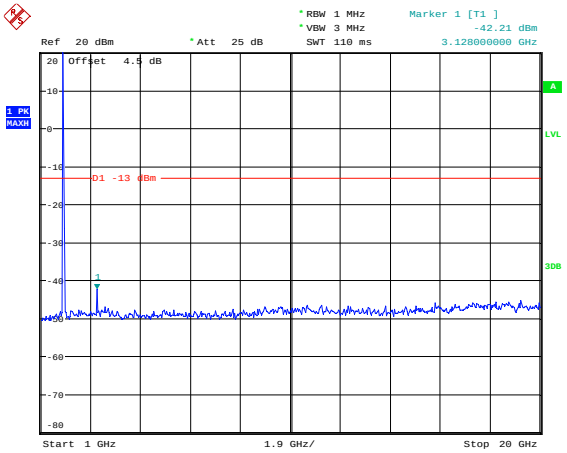
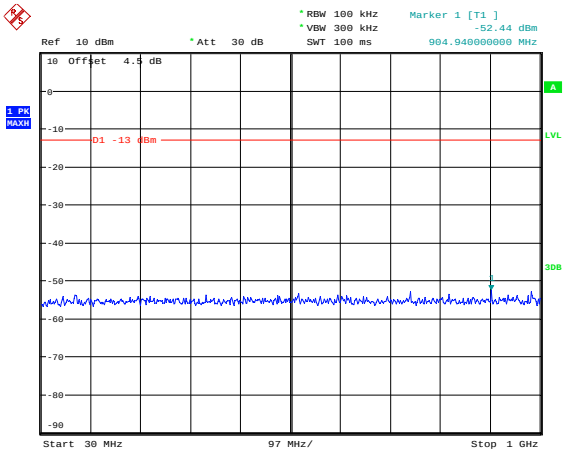


Date: 25.AUG.2021 13:23:51

10M, QPSK, Middle Channel



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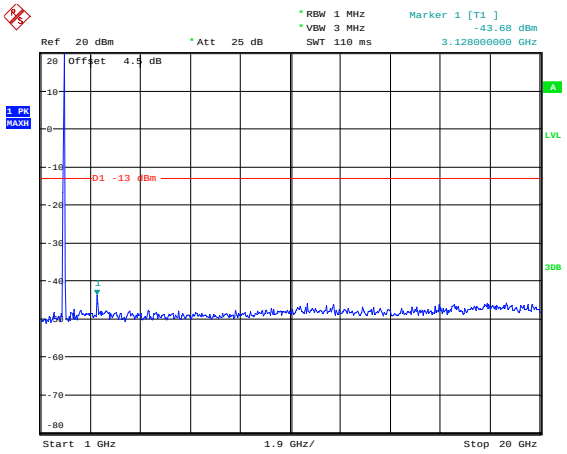

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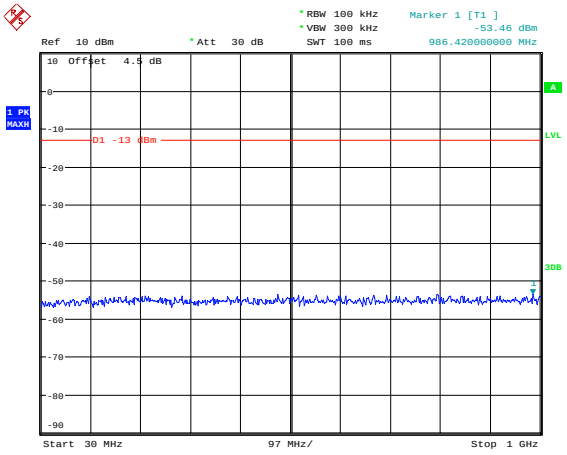
10M, QPSK, High Channel



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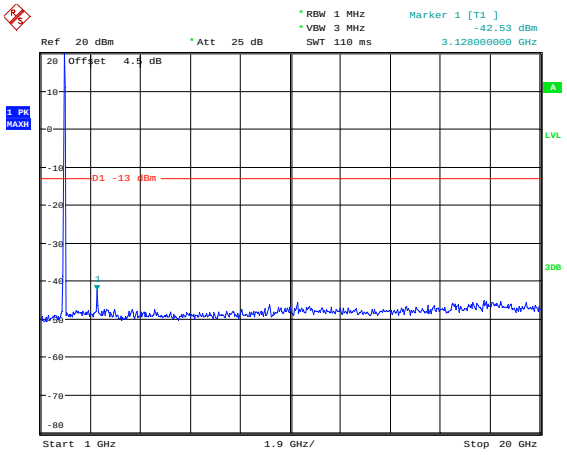
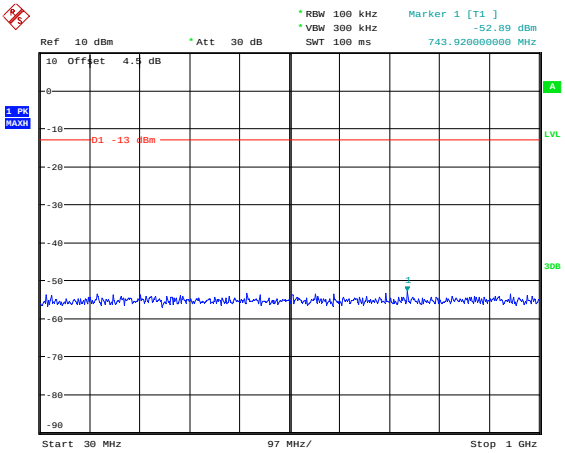


Date: 25.AUG.2021 13:24:59

15M, QPSK, Low Channel



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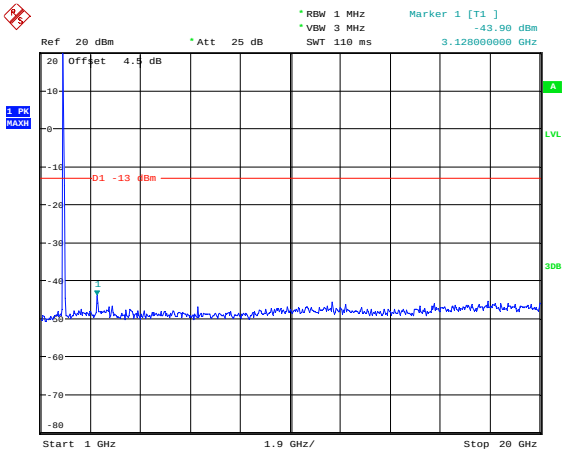

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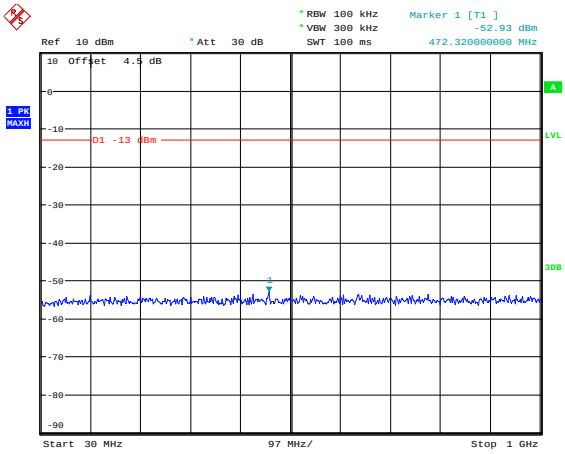
15M, QPSK, Middle Channel



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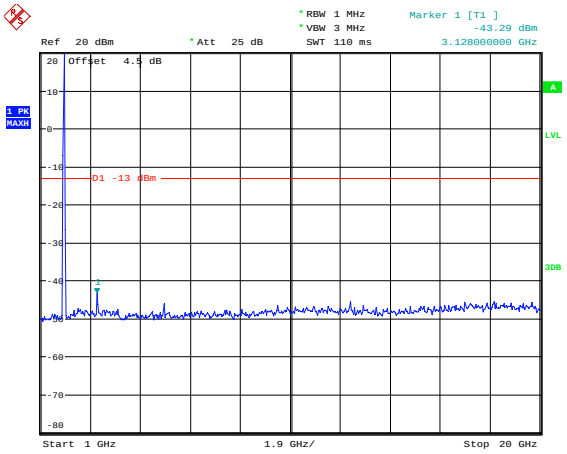

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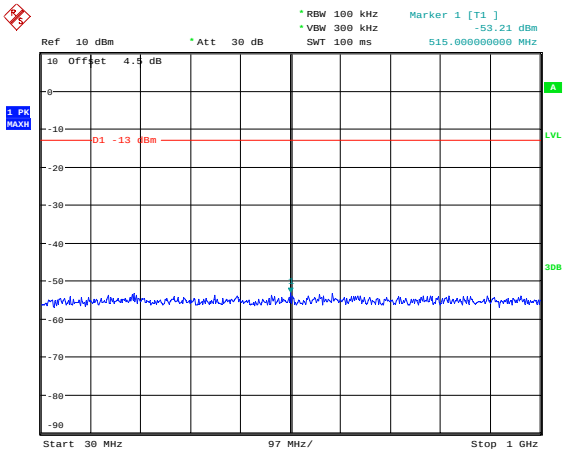
15M, QPSK, High Channel



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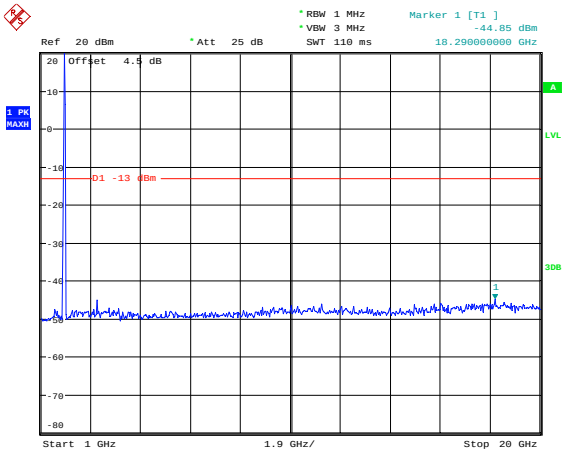

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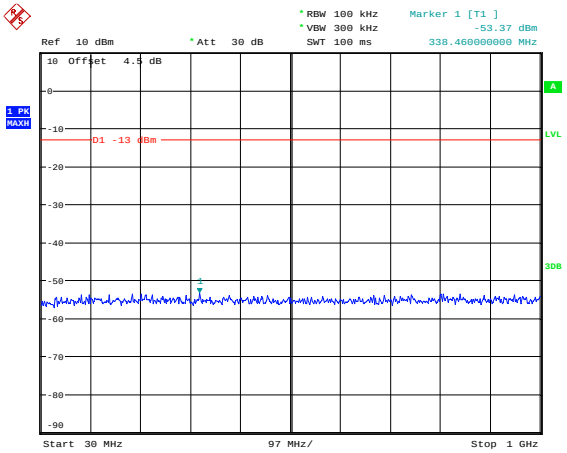
20M, QPSK, Low Channel



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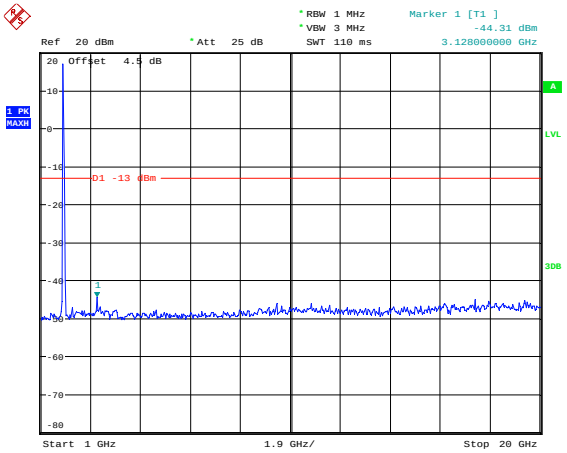

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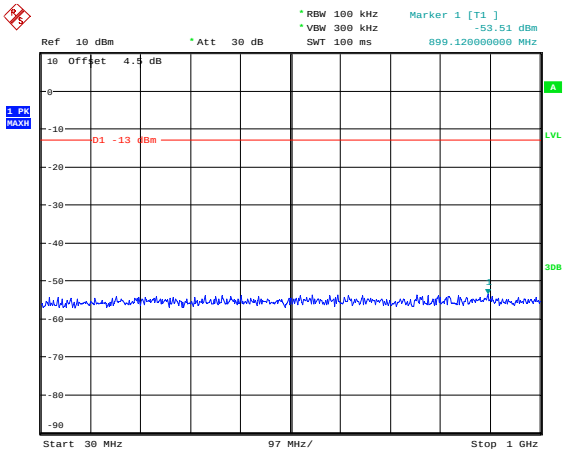
20M, QPSK, Middle Channel



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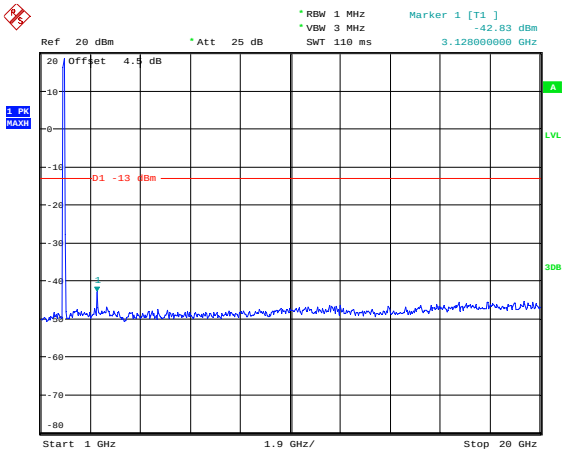
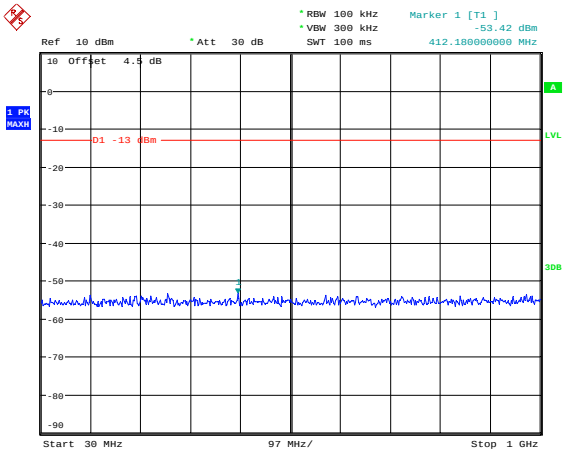


Date: 25.AUG.2021 13:28:09

20M, QPSK, High Channel



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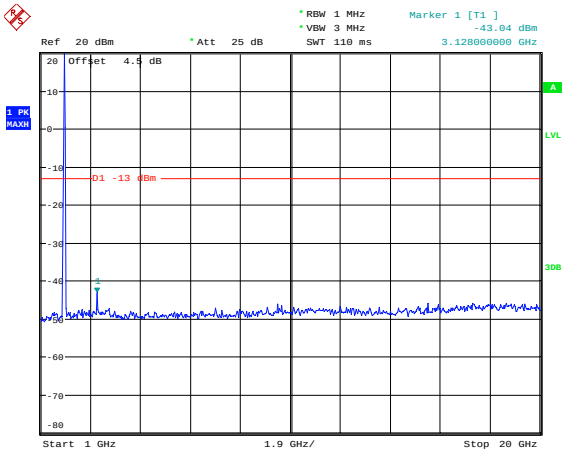

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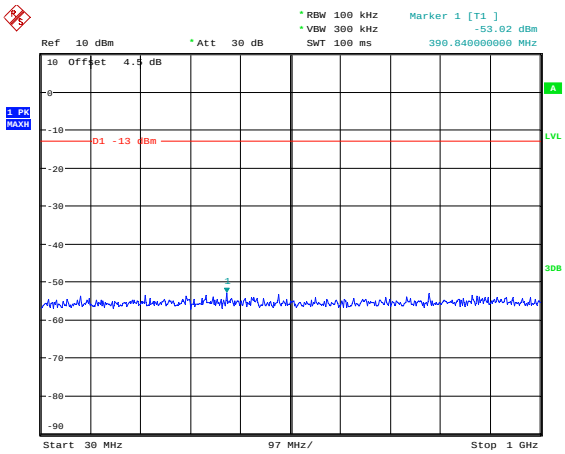
LTE Band 4:

1.4M, QPSK, Low Channel



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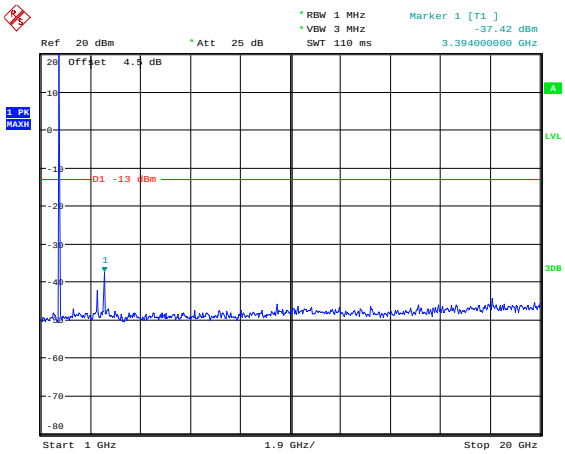

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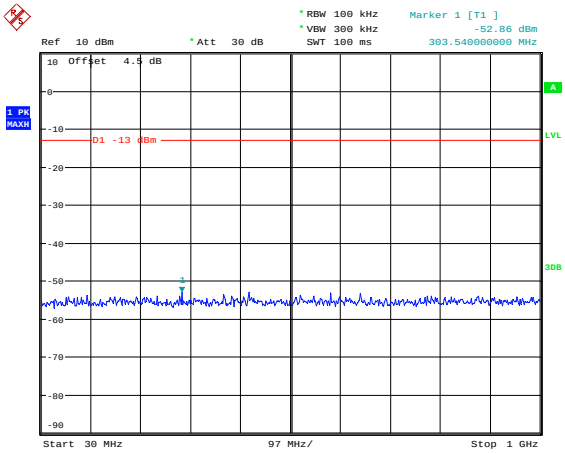
1.4M, QPSK, Middle Channel



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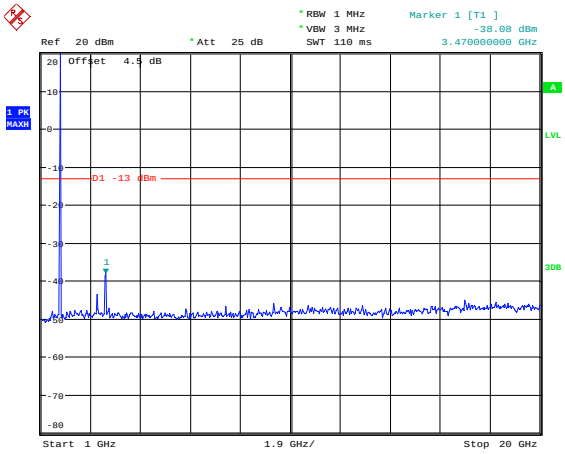

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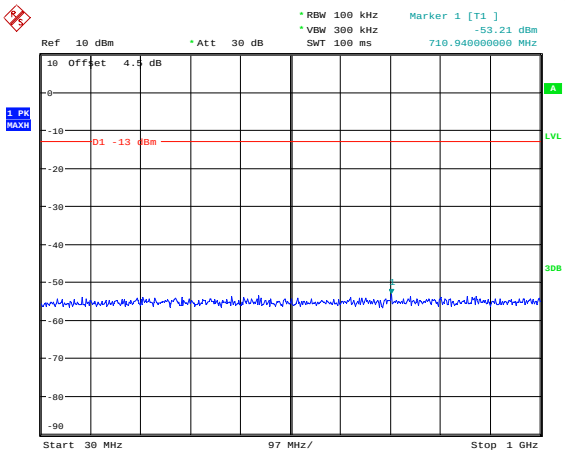
1.4M, QPSK, High Channel



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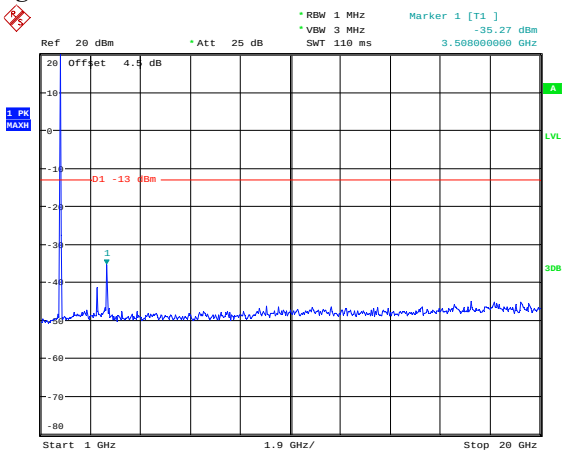

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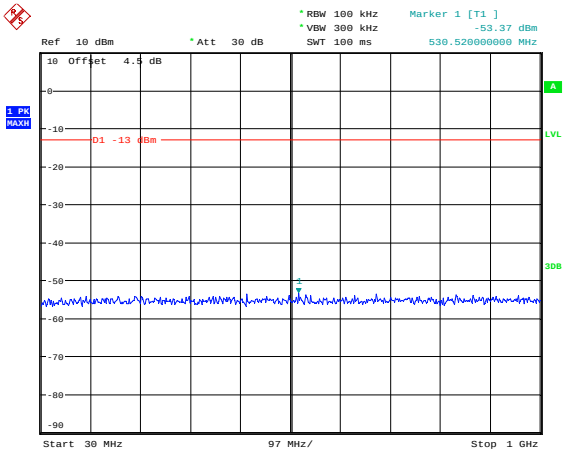
3M, QPSK, Low Channel



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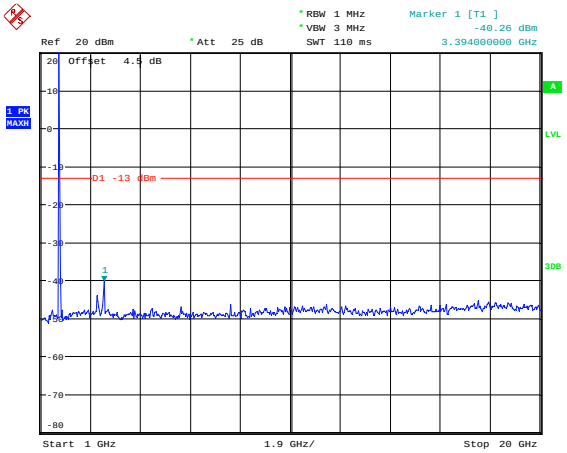

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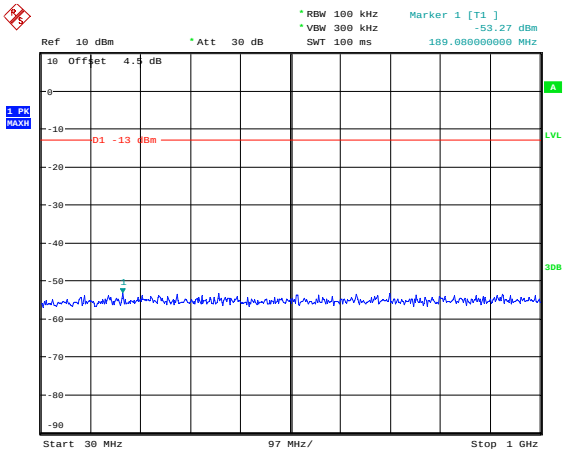
3M, QPSK, Middle Channel



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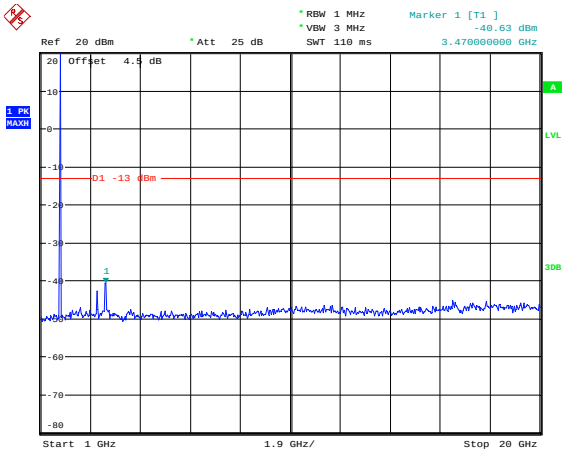

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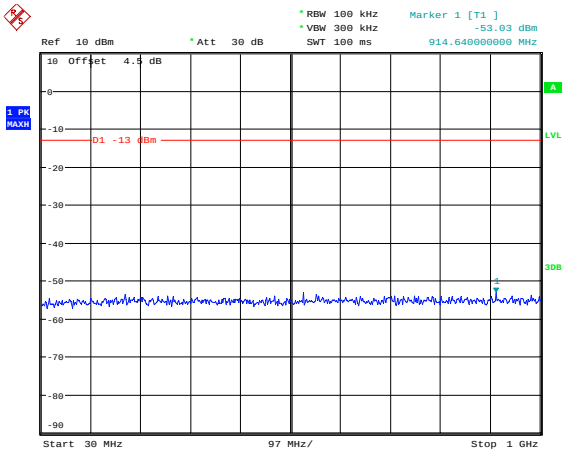
3M, QPSK, High Channel



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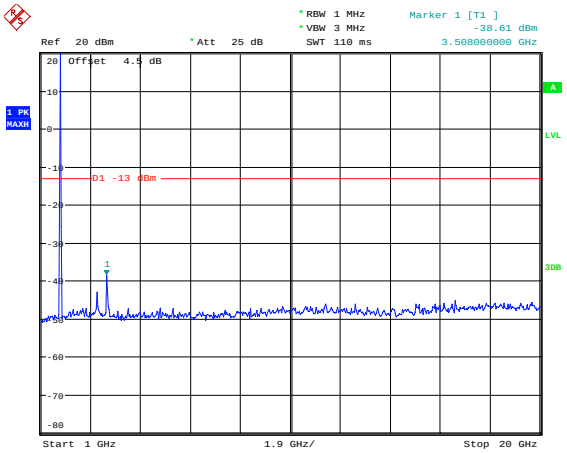
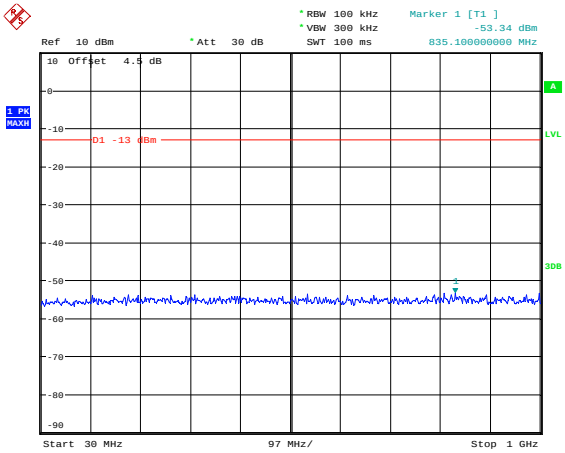
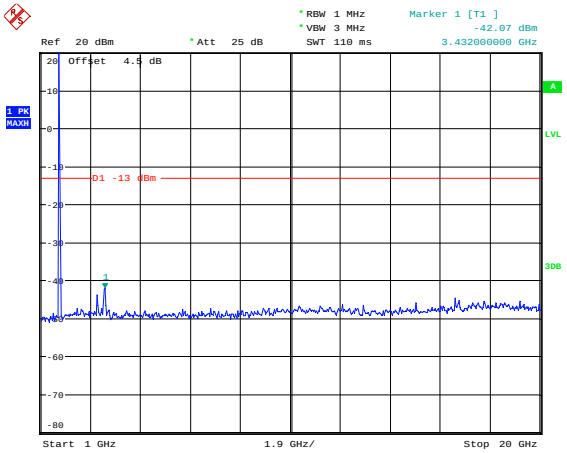


Date: 25.AUG.2021 13:32:08

5M, QPSK, Low Channel

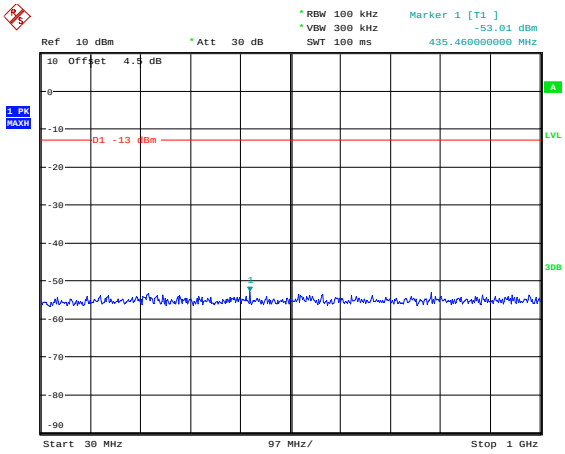


Date: 25.AUG.2021 13:32:31

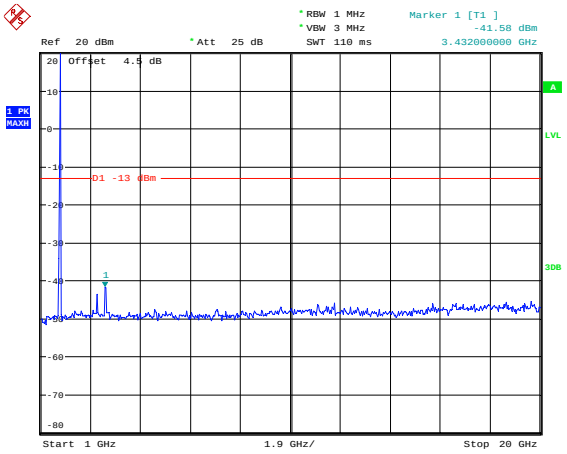


Date: 25.AUG.2021 13:32:45

5M, QPSK, Middle Channel

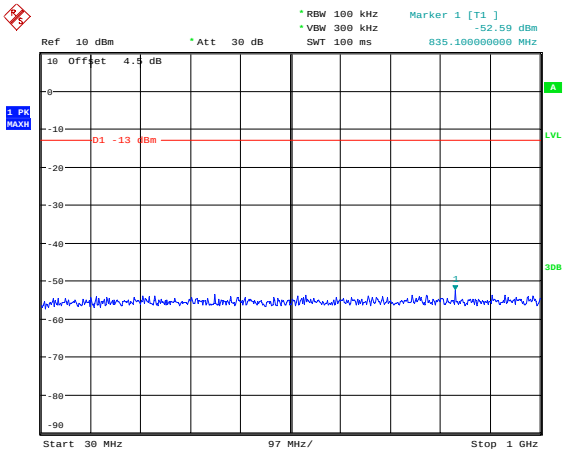


Date: 25.AUG.2021 13:33:05



Date: 25.AUG.2021 13:33:16

5M, QPSK, High Channel



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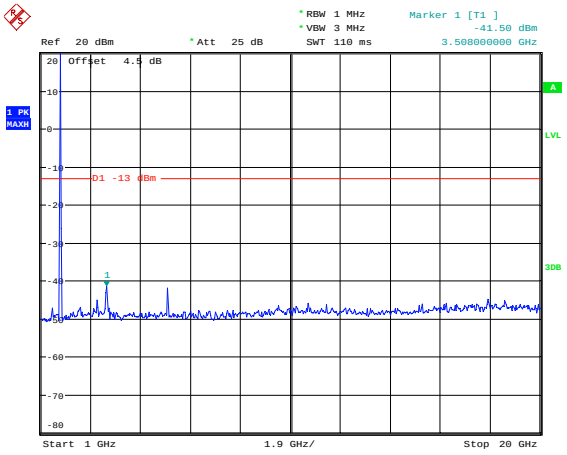
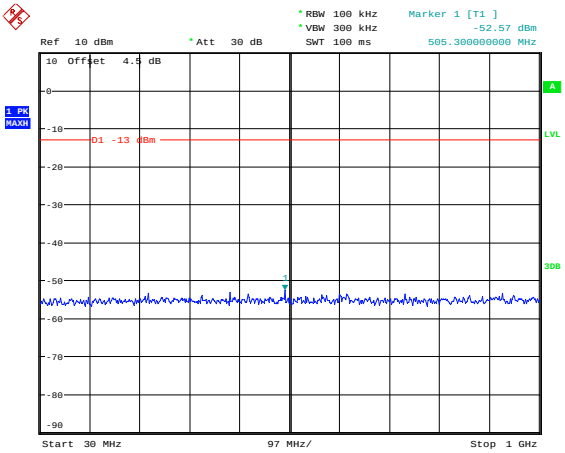
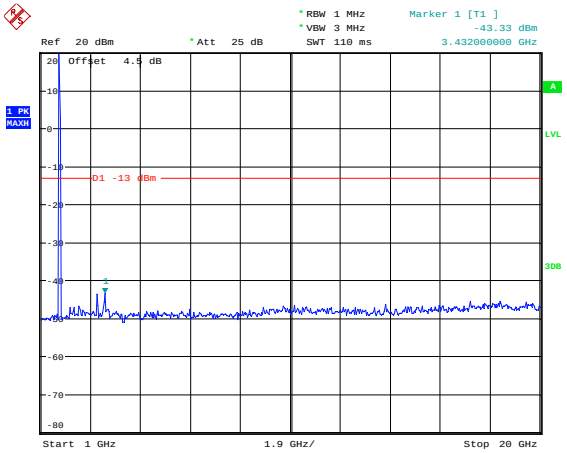


Date: 25.AUG.2021 13:33:47

10M, QPSK, Low Channel



Date: 25.AUG.2021 13:34:11



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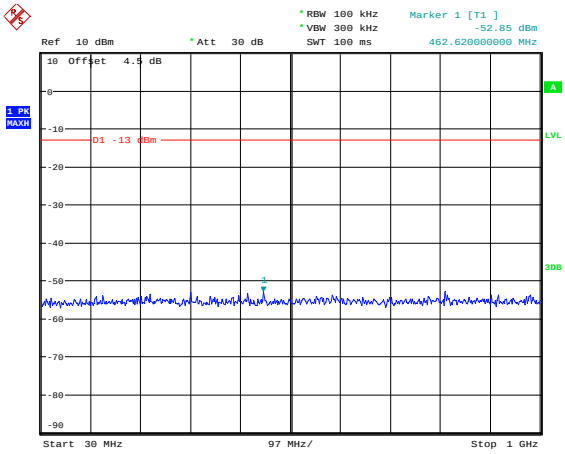
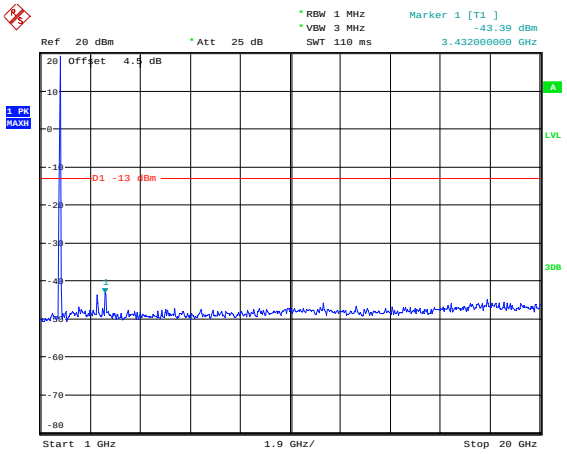
10M, QPSK, Middle Channel



Date: 25.AUG.2021 13:34:44



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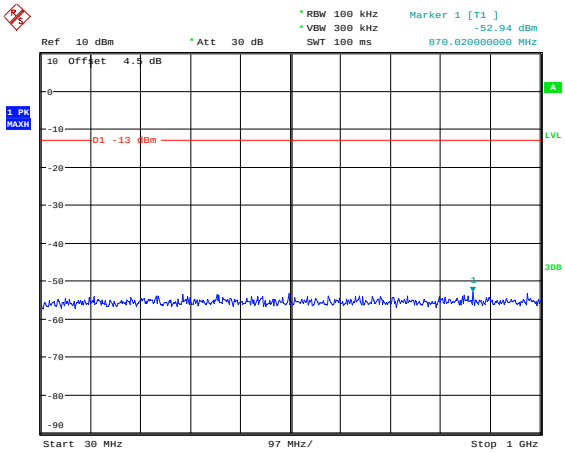
10M, QPSK, High Channel



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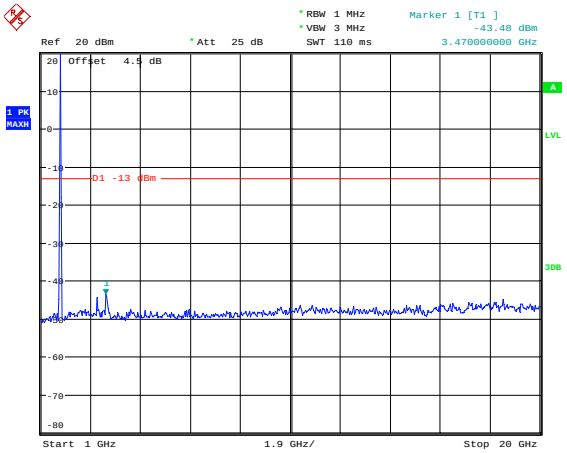

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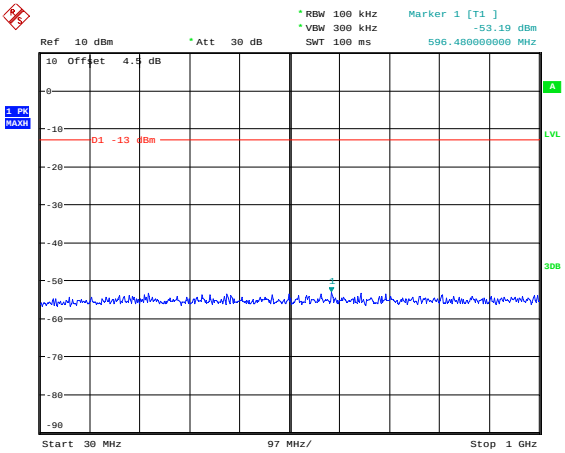
15M, QPSK, Low Channel



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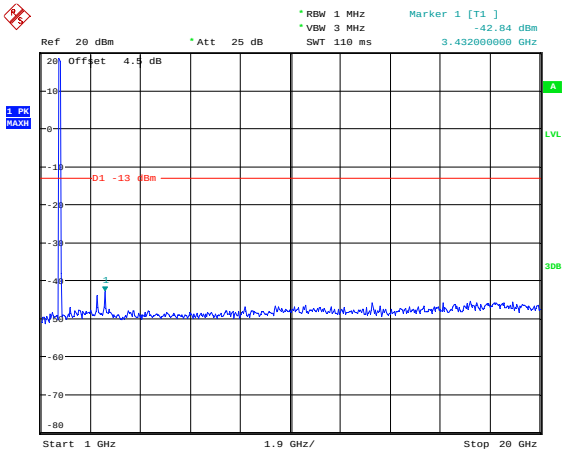

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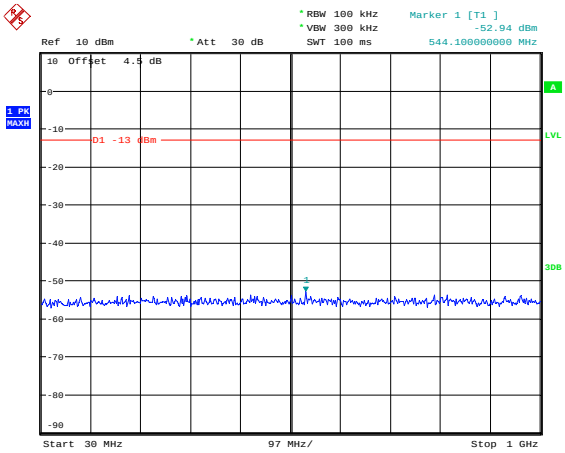
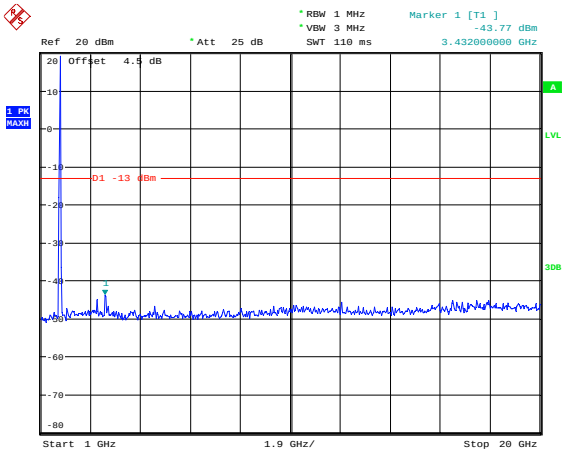
15M, QPSK, Middle Channel

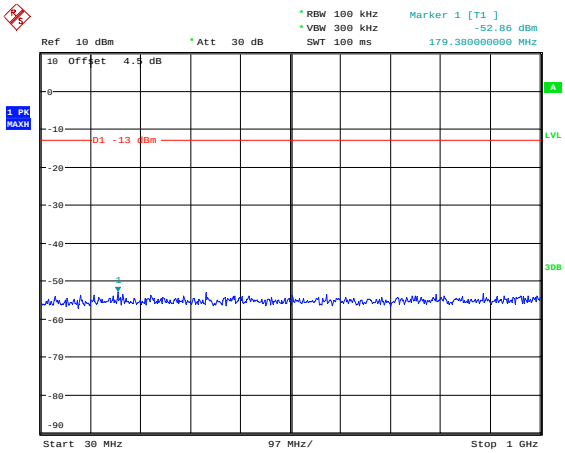


Date: 25.AUG.2021 13:36:30



Date: 25.AUG.2021 13:36:44

15M, QPSK, High Channel



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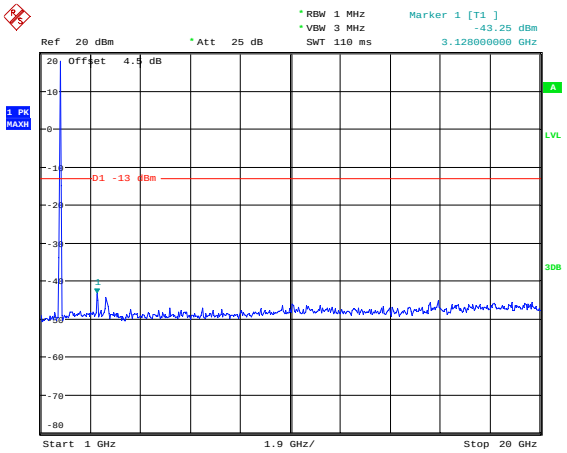

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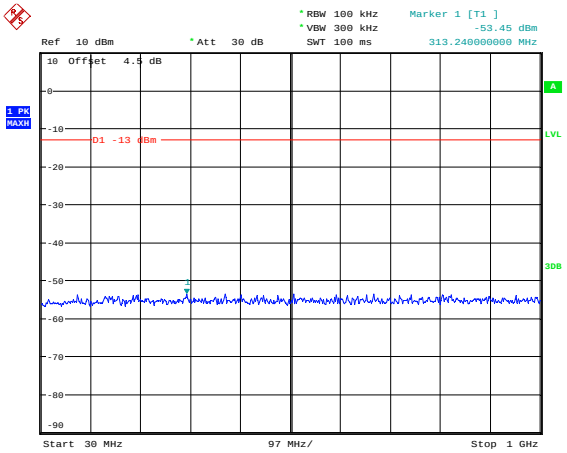
20M, QPSK, Low Channel



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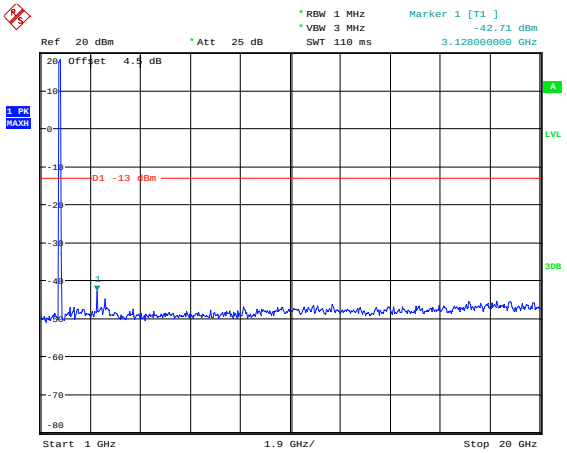
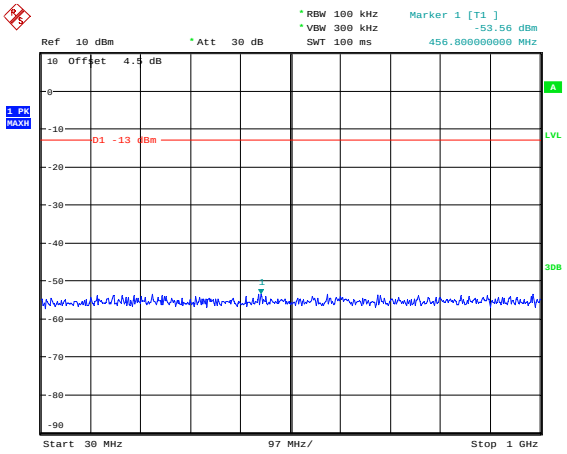


Date: 25.AUG.2021 13:38:02

20M, QPSK, Middle Channel



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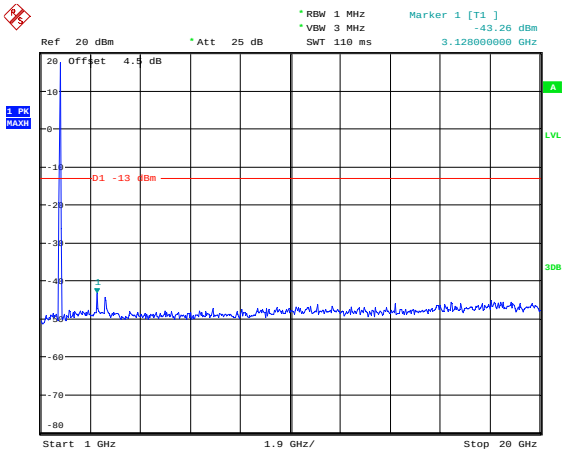

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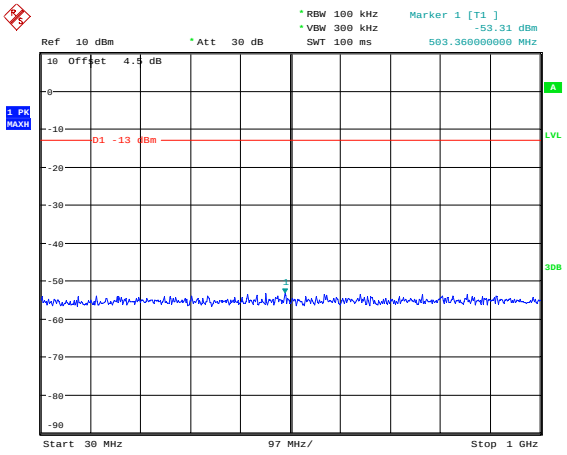
20M, QPSK, High Channel



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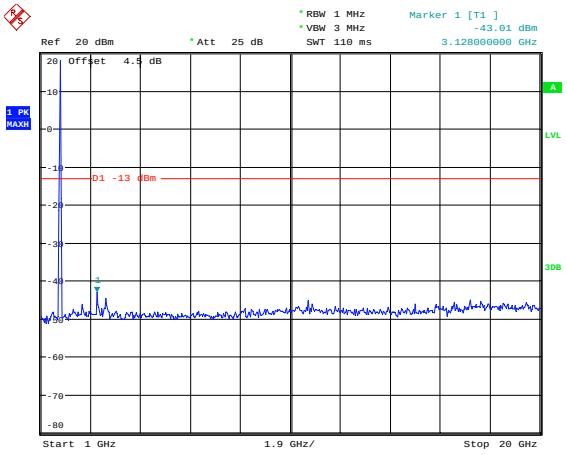
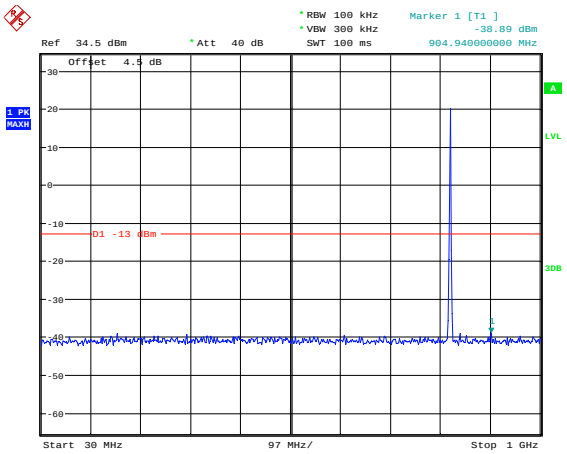


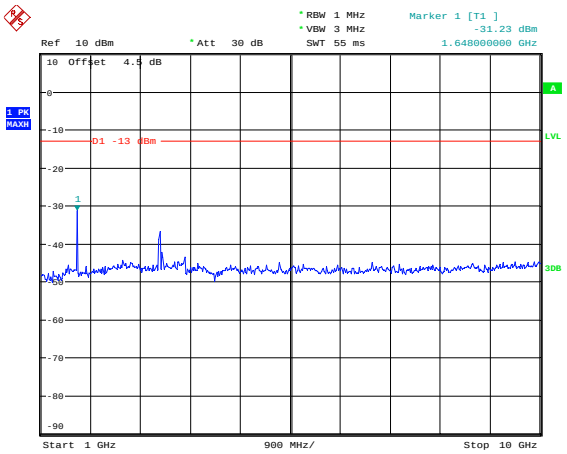
Date: 25.AUG.2021 13:39:14

LTE Band 5:

1.4M, QPSK, Low Channel

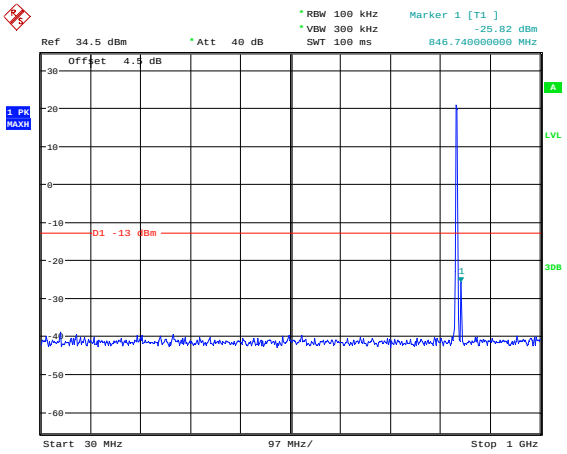


Date: 25.AUG.2021 13:40:33



Date: 25.AUG.2021 13:40:47

1.4M, QPSK, Middle Channel



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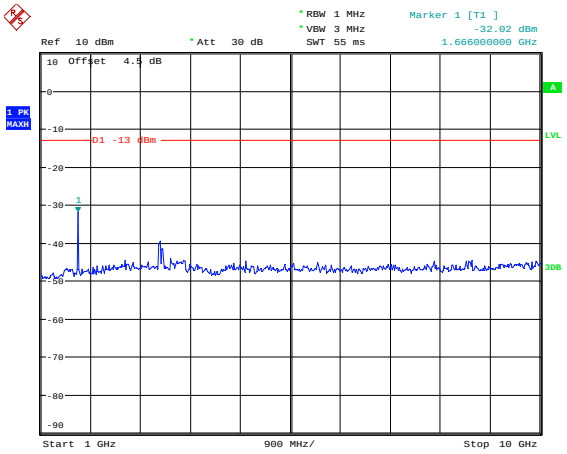

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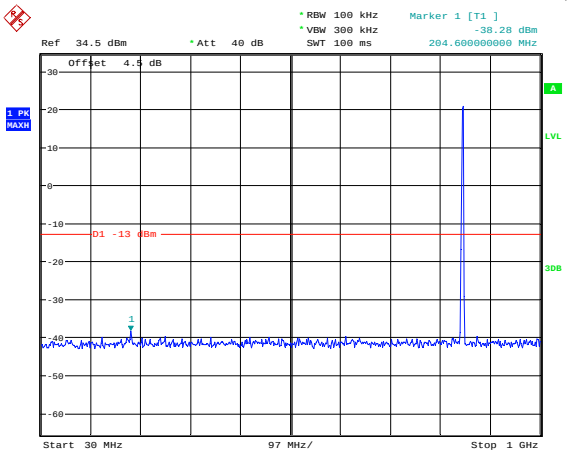
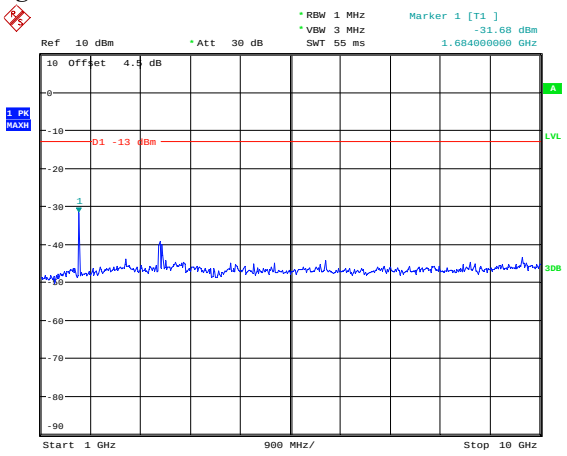
1.4M, QPSK, High Channel

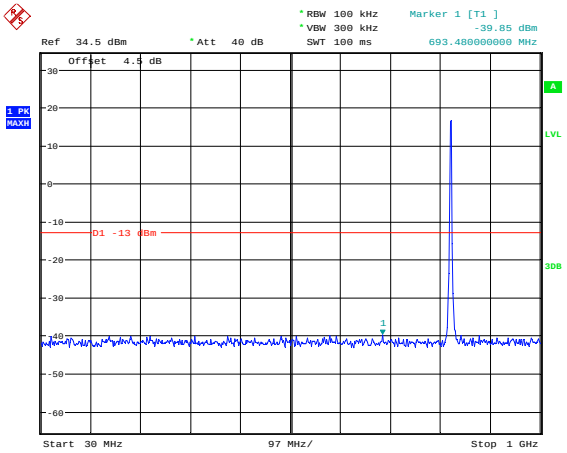


Date: 25.AUG.2021 13:42:00

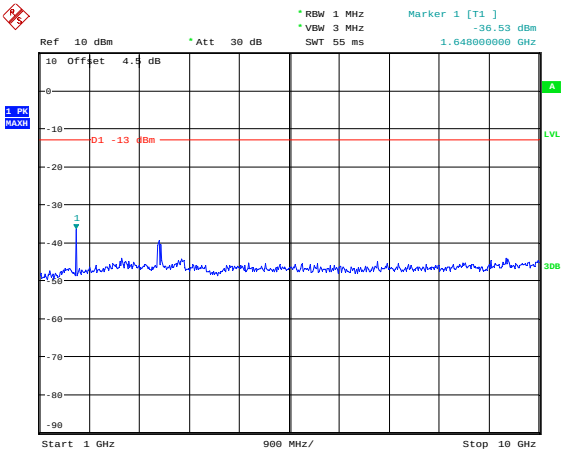


Date: 25.AUG.2021 13:42:14

3M, QPSK, Low Channel

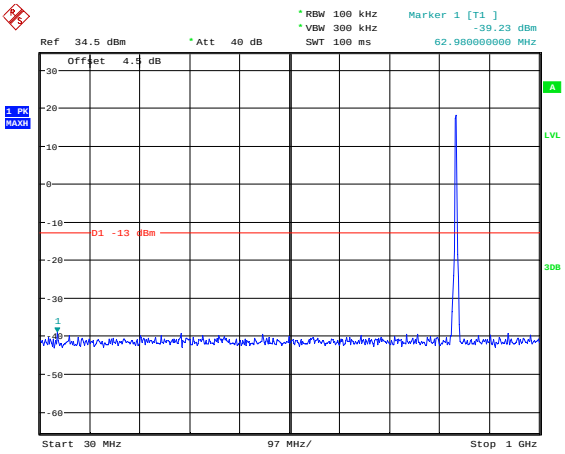


Date: 25.AUG.2021 13:43:02



Date: 25.AUG.2021 13:43:16

3M, QPSK, Middle Channel



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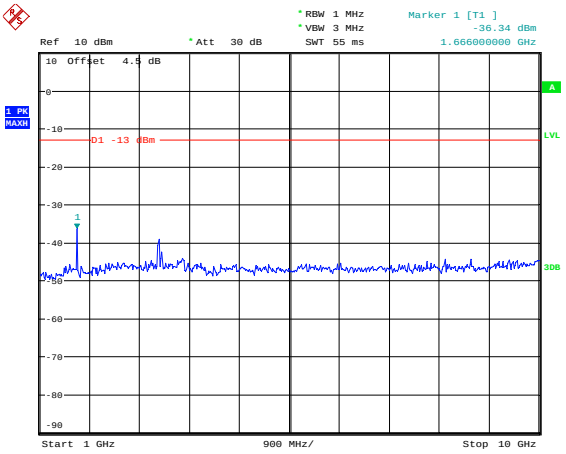

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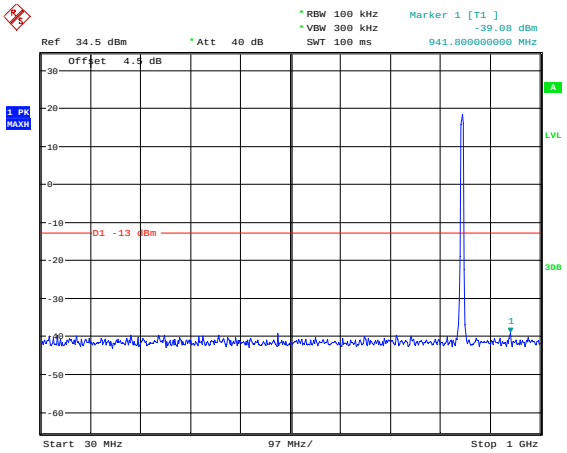
3M, QPSK, High Channel



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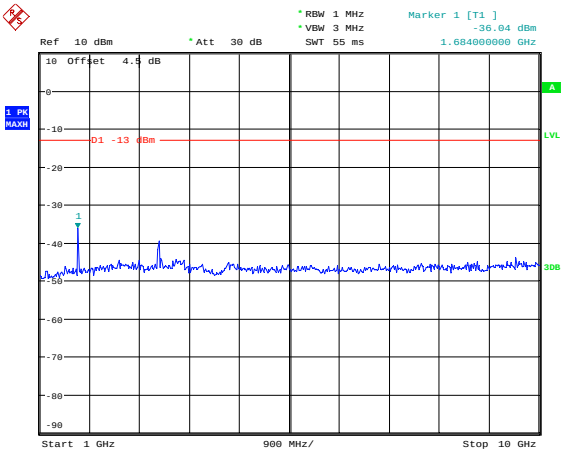
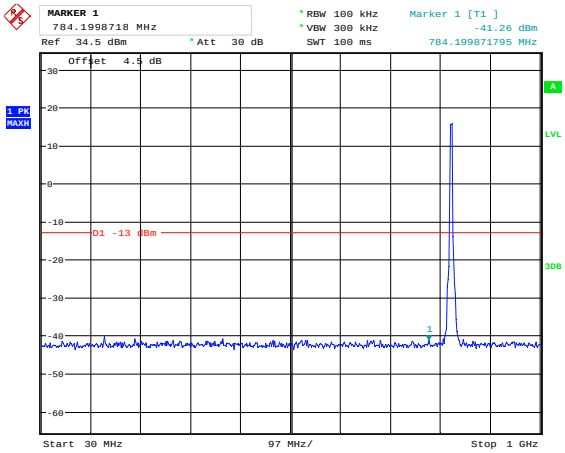


Date: 25.AUG.2021 13:44:40

5M, QPSK, Low Channel



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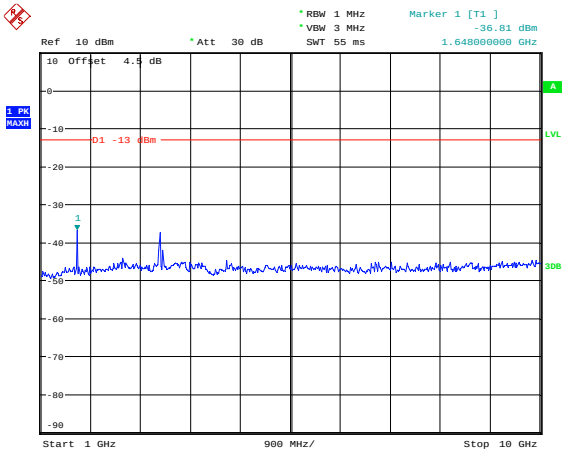

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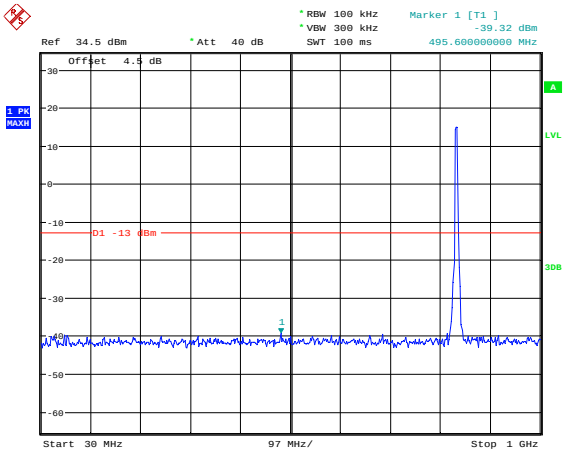
5M, QPSK, Middle Channel



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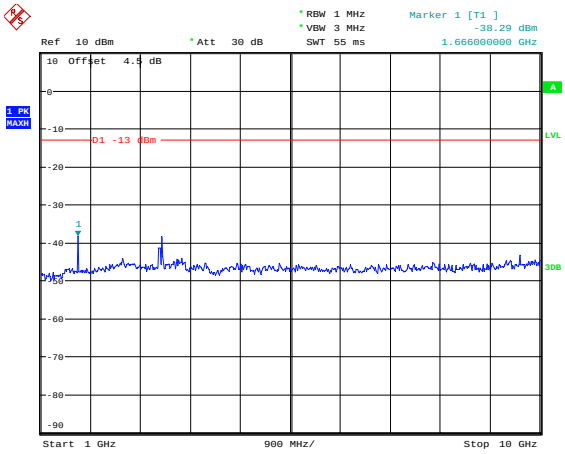

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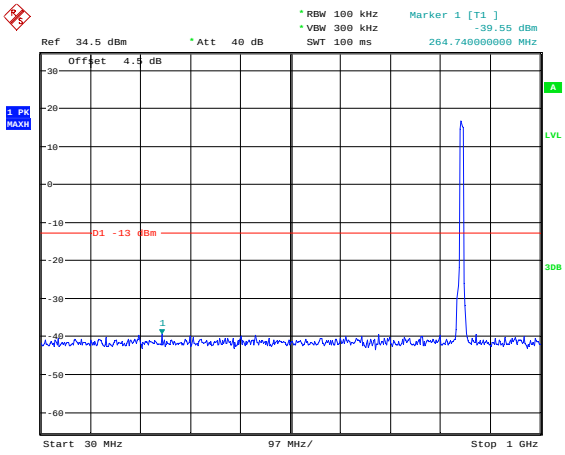
5M, QPSK, High Channel



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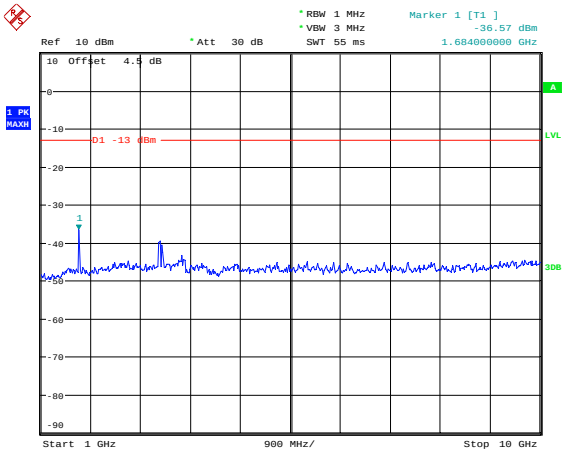

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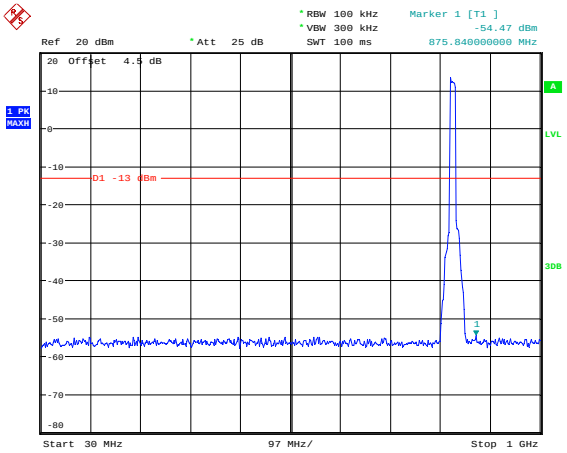
10M, QPSK, Low Channel



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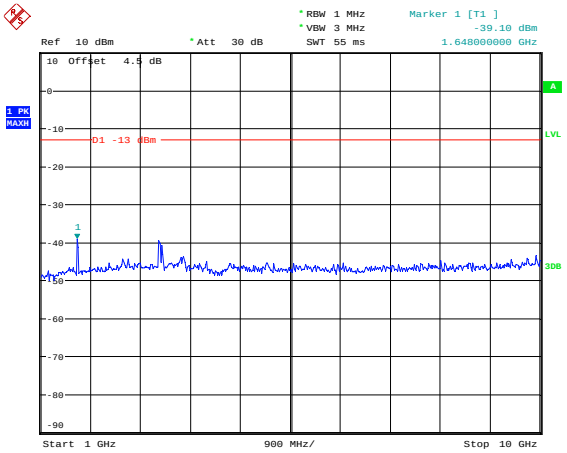

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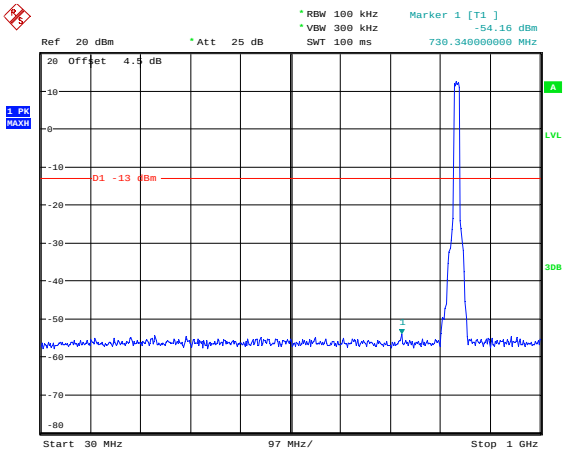
10M, QPSK, Middle Channel



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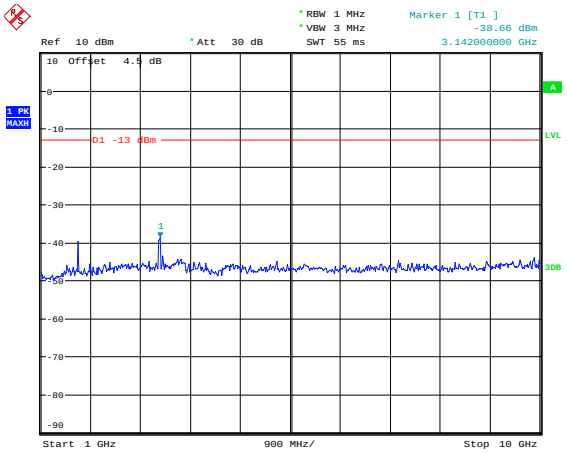
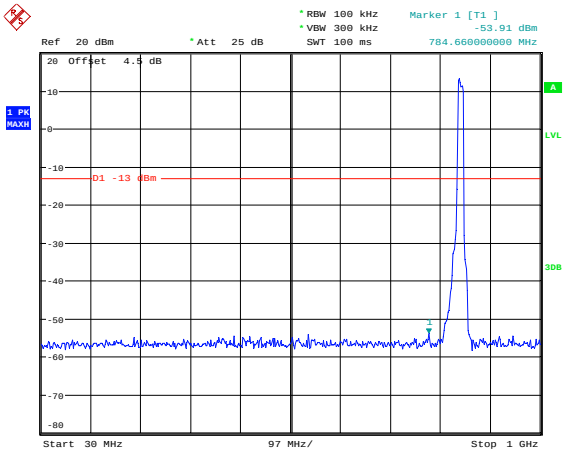


Date: 25.AUG.2021 13:48:00

10M, QPSK, High Channel



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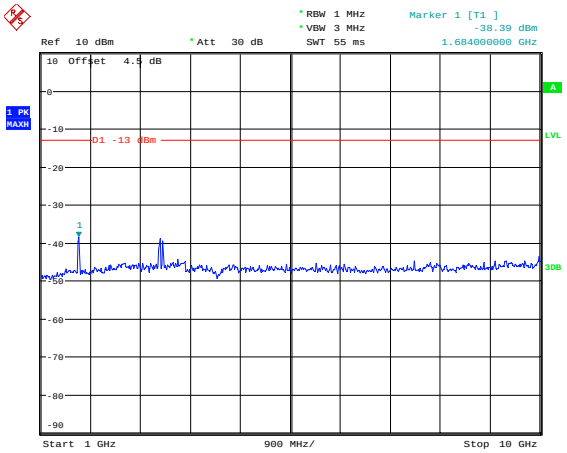
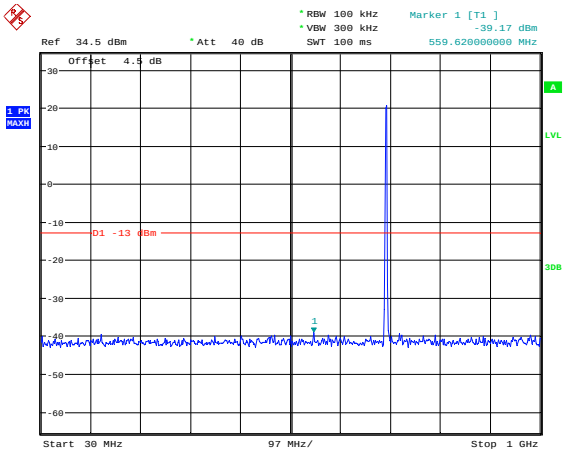


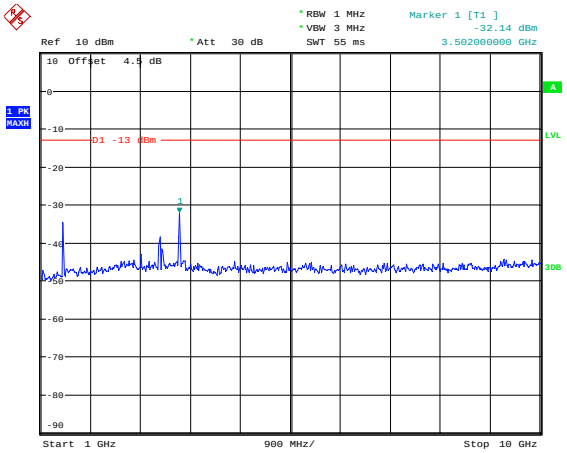
Date: 25.AUG.2021 13:48:33

LTE Band 12:

1.4M, QPSK, Low Channel

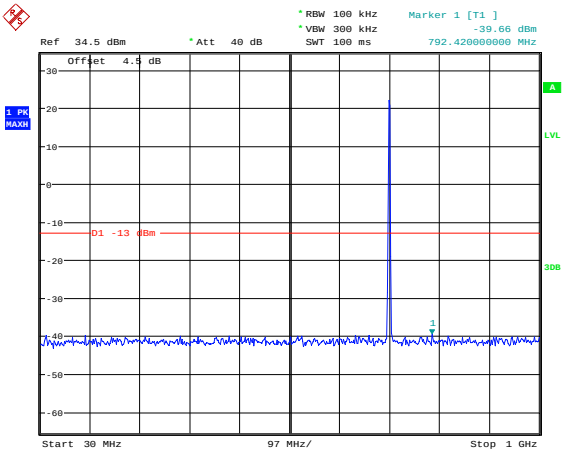


Date: 25.AUG.2021 13:49:04



Date: 25.AUG.2021 13:49:17

1.4M, QPSK, Middle Channel



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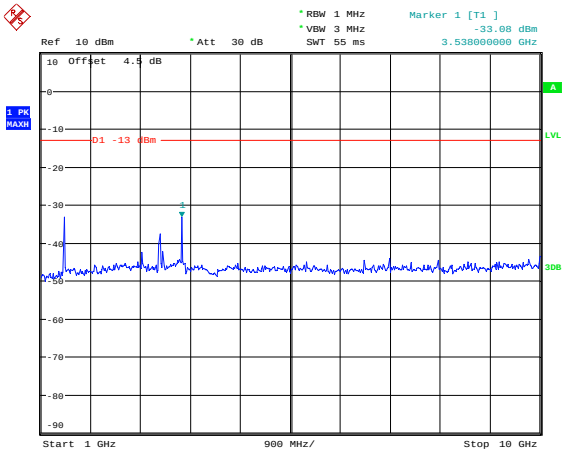

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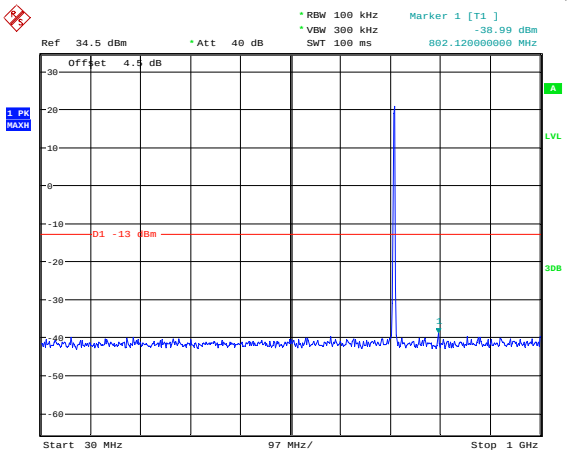
1.4M, QPSK, High Channel



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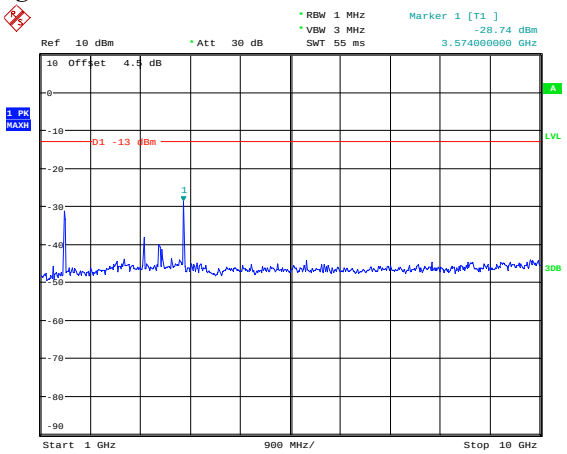
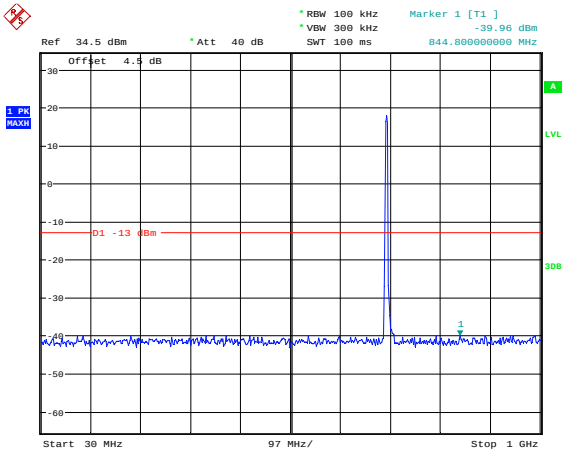
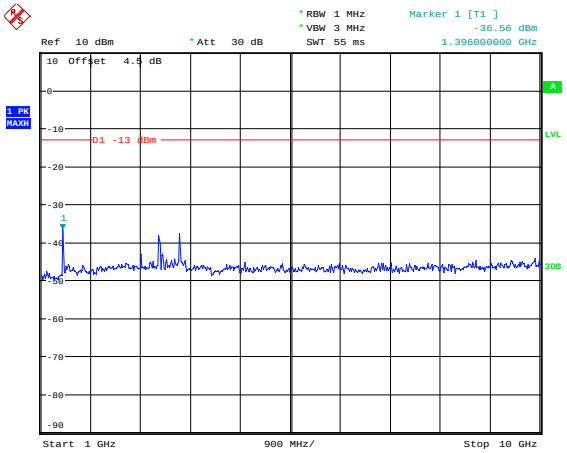


Date: 25.AUG.2021 13:50:48

3M, QPSK, Low Channel

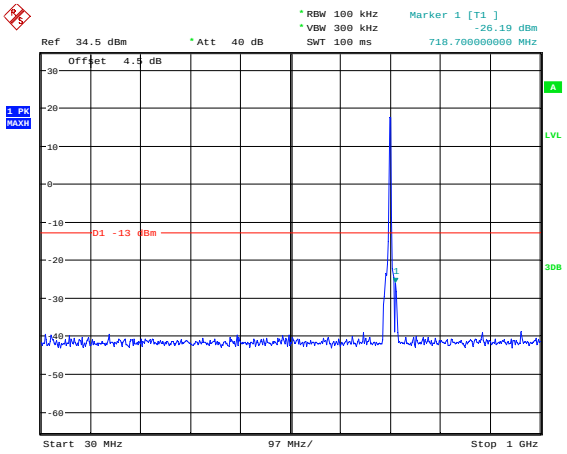


Date: 25.AUG.2021 13:51:25

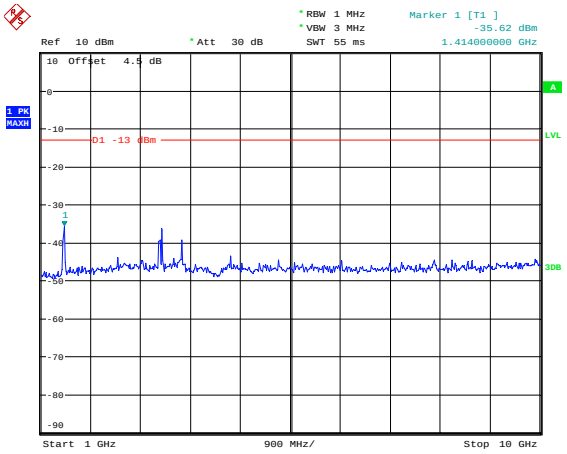


Date: 25.AUG.2021 13:51:39

3M, QPSK, Middle Channel

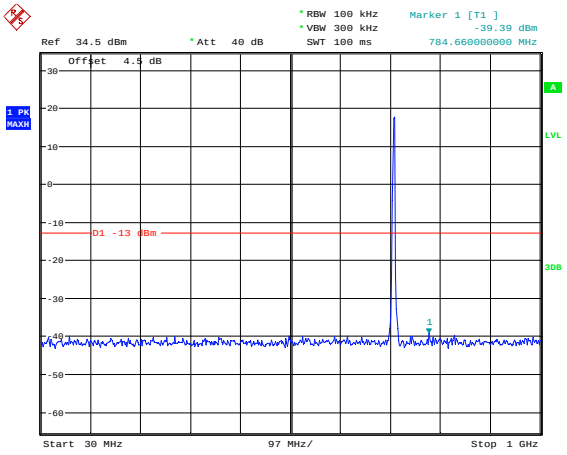


Date: 25.AUG.2021 13:52:09



Date: 25.AUG.2021 13:52:22

3M, QPSK, High Channel



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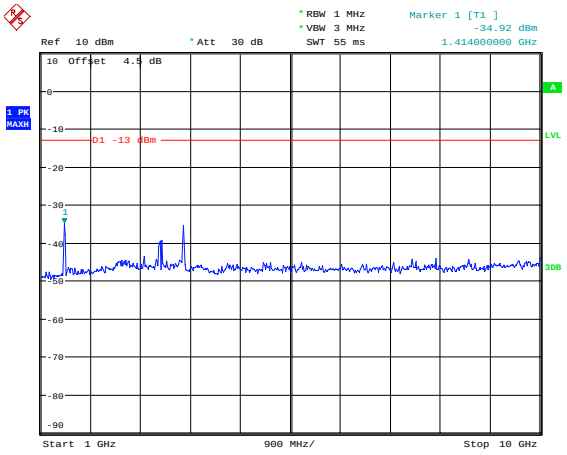
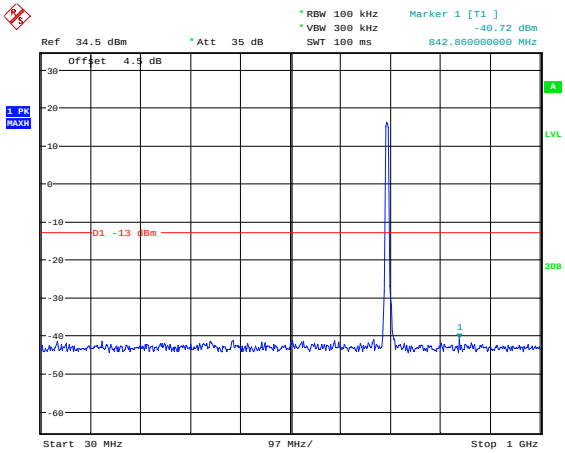
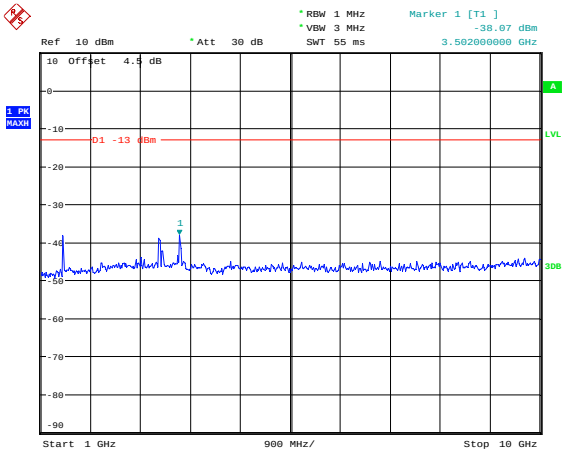


Date: 25.AUG.2021 13:53:06

5M, QPSK, Low Channel

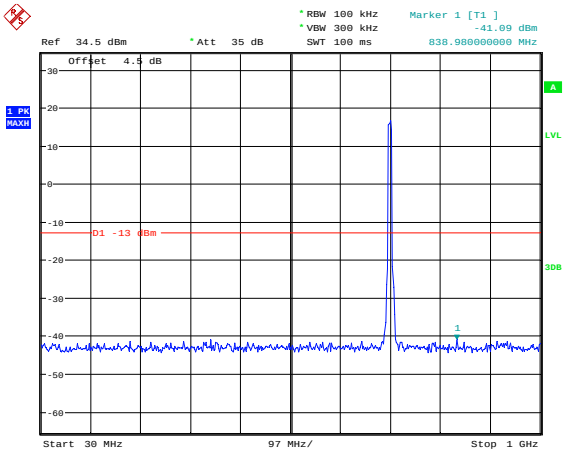


Date: 25.AUG.2021 13:53:41

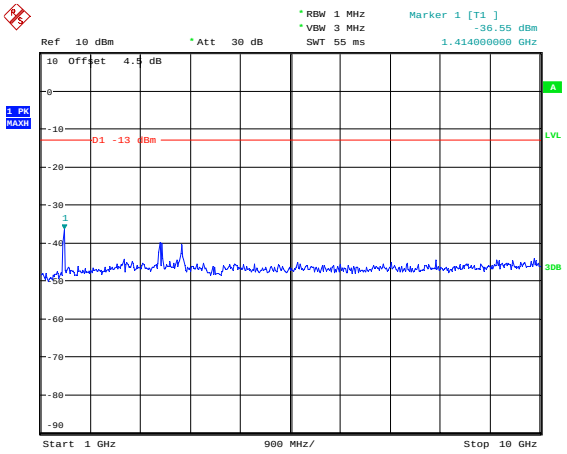


Date: 25.AUG.2021 13:53:57

5M, QPSK, Middle Channel

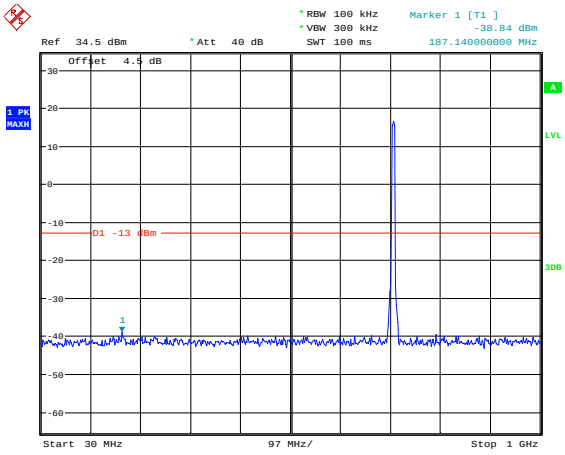


Date: 25.AUG.2021 13:54:31

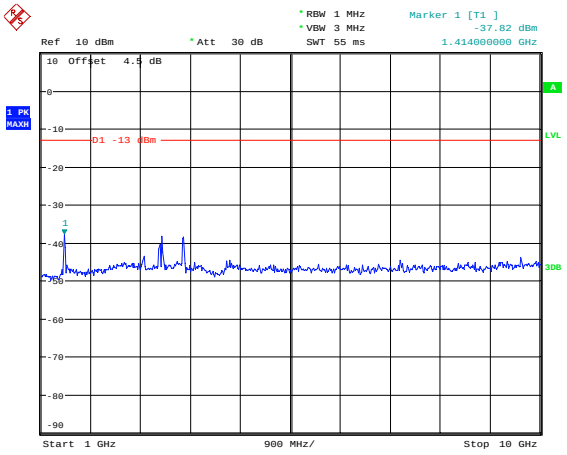


Date: 25.AUG.2021 13:54:45

5M, QPSK, High Channel

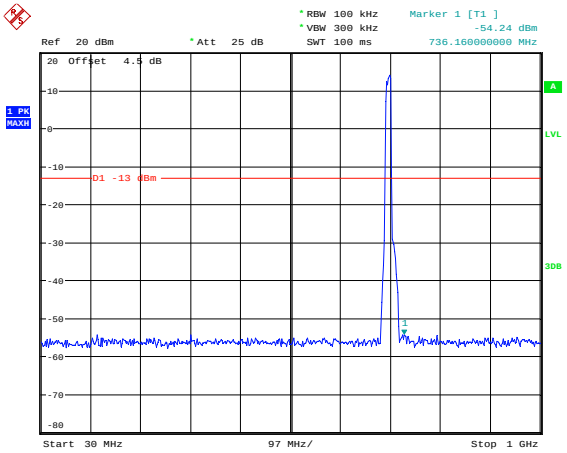


Date: 25.AUG.2021 13:55:17



Date: 25.AUG.2021 13:55:31

10M, QPSK, Low Channel



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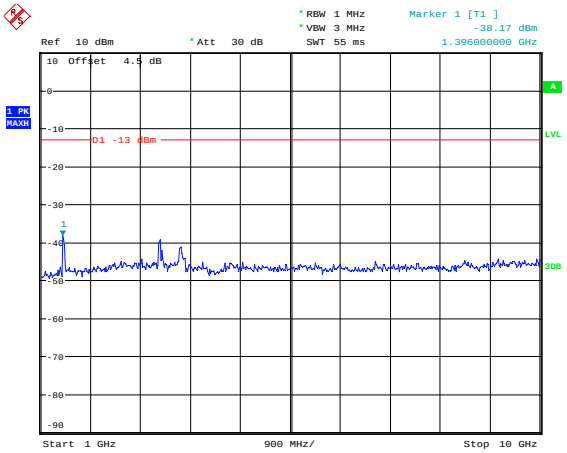
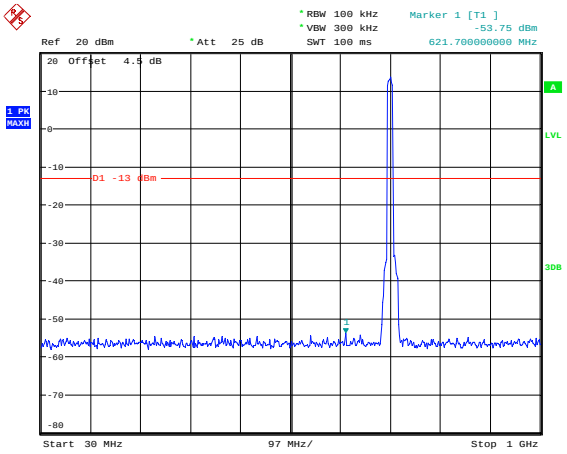


Date: 25.AUG.2021 13:56:14

10M, QPSK, Middle Channel



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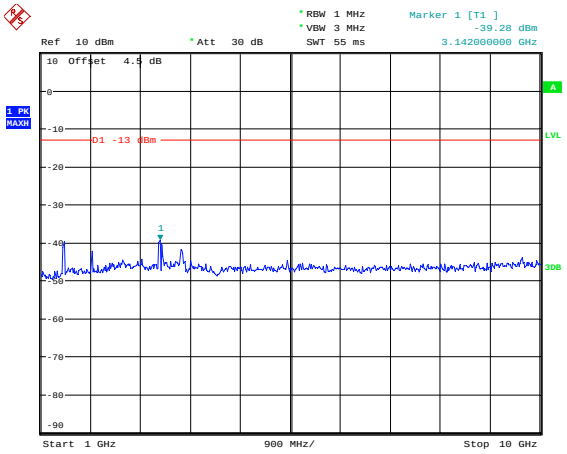
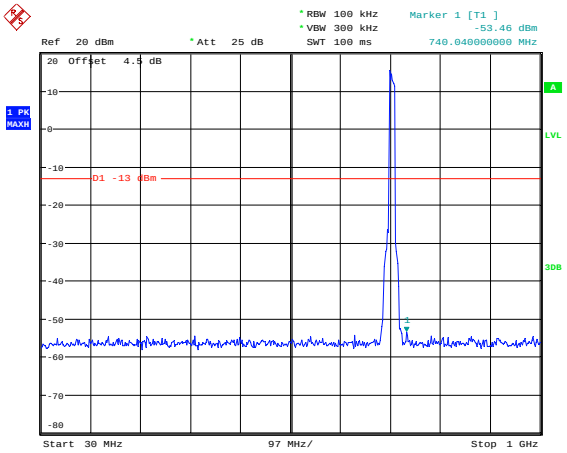


Date: 25.AUG.2021 13:56:57

10M, QPSK, High Channel



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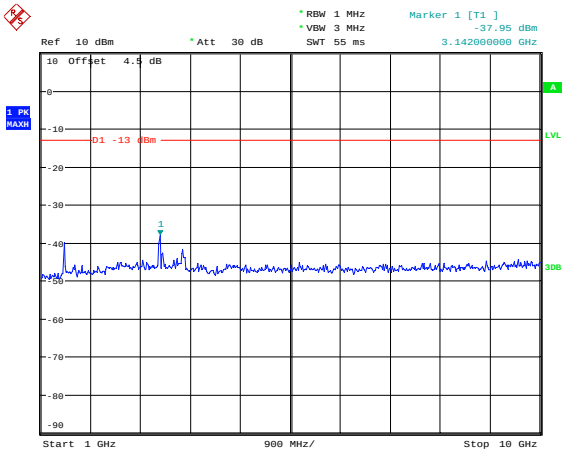
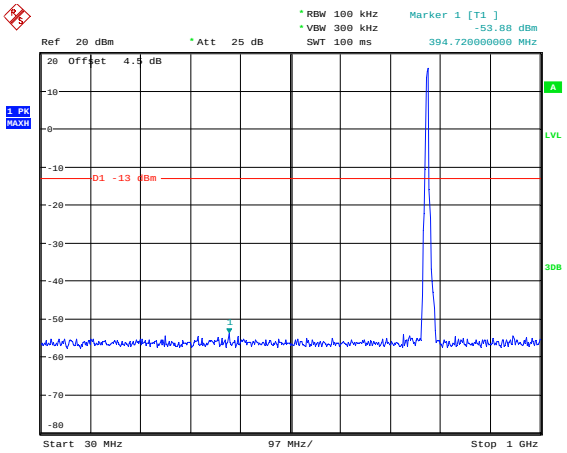


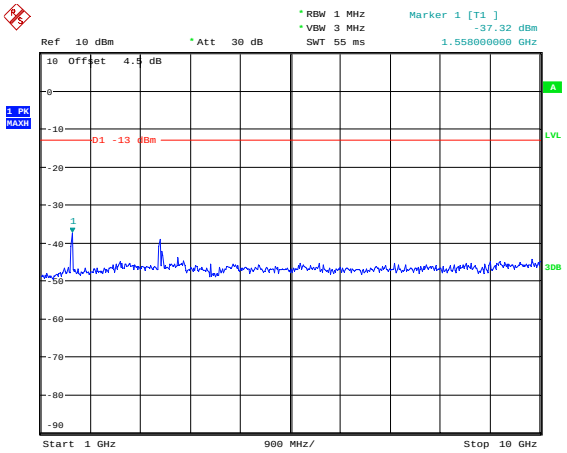
Date: 25.AUG.2021 13:57:31

LTE Band 13:

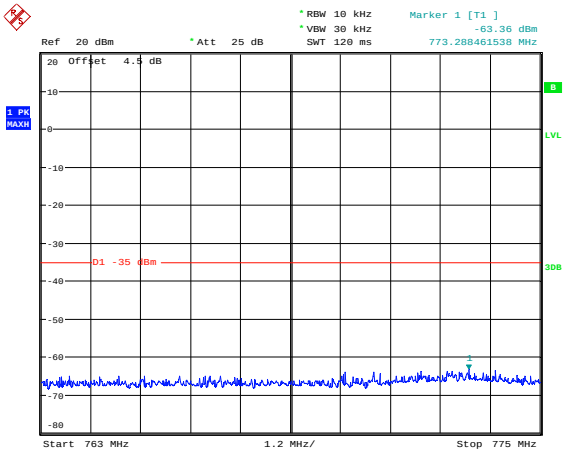
5M, QPSK, Low Channel



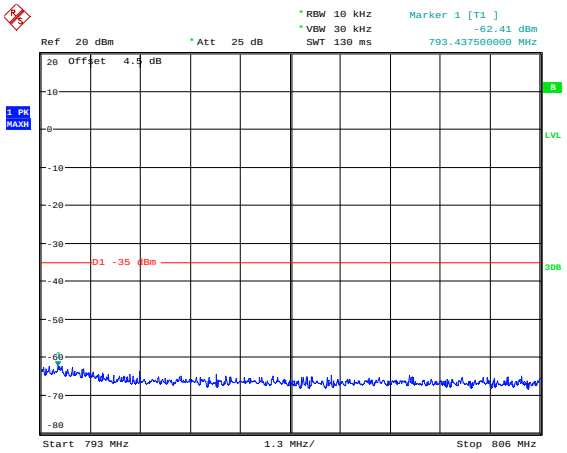
Date: 25.AUG.2021 13:57:54



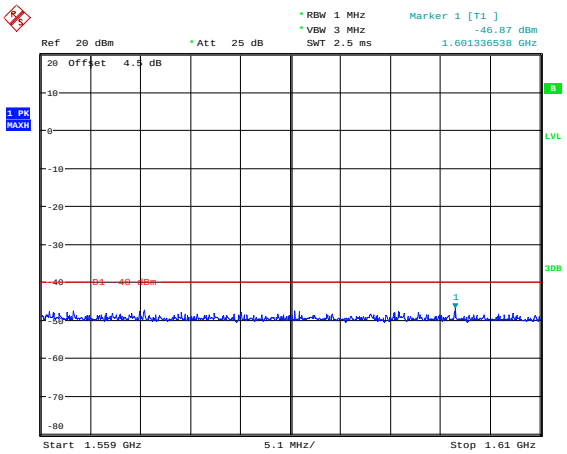
Date: 25.AUG.2021 13:58:08



Date: 31.AUG.2021 10:35:30

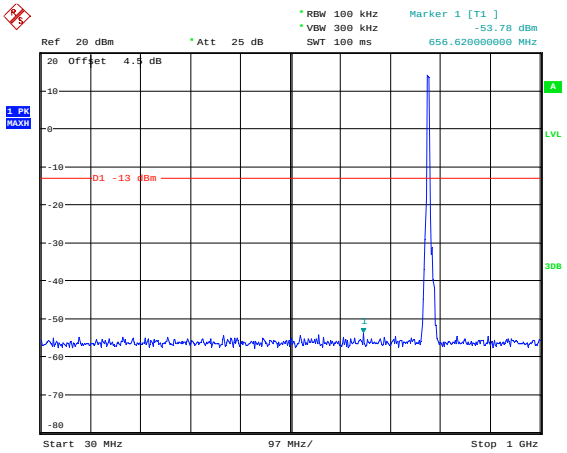


Date: 31.AUG.2021 10:42:00



Date: 31.AUG.2021 10:46:08

5M, QPSK, Middle Channel



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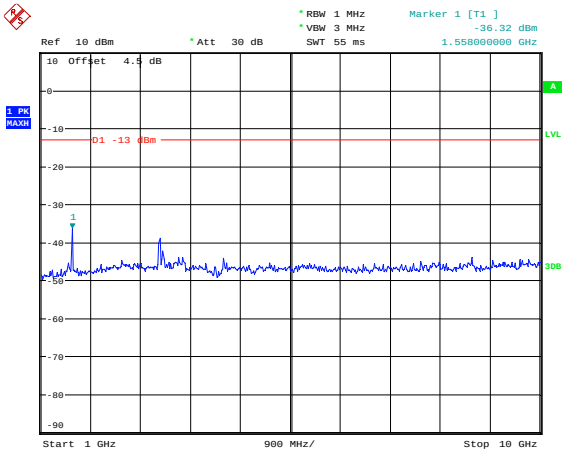

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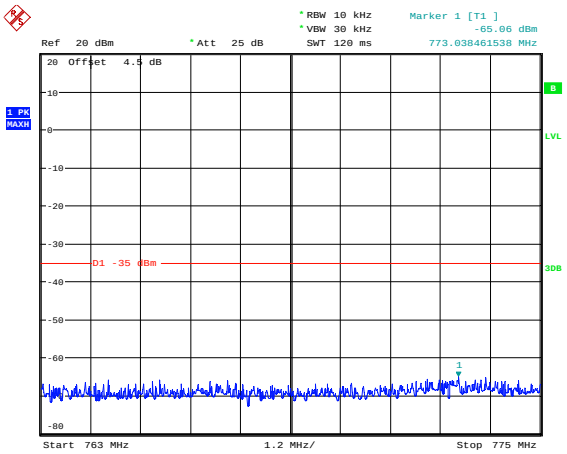

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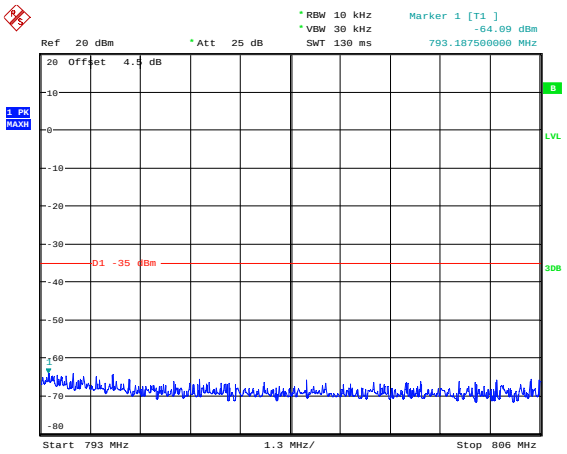

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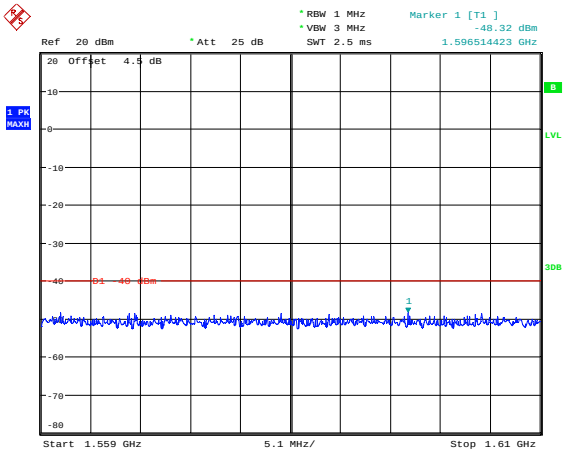
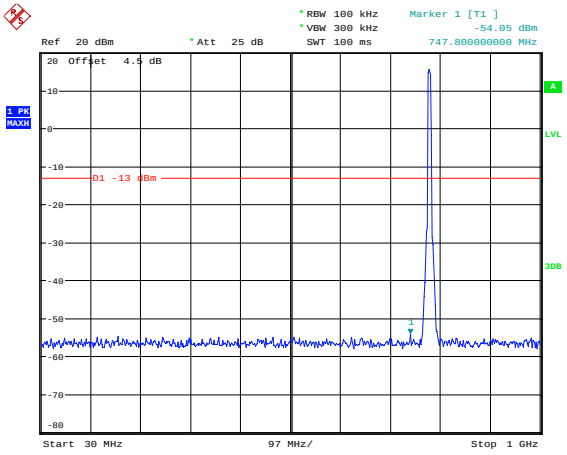


Date: 31.AUG.2021 10:47:14

5M, QPSK, High Channel



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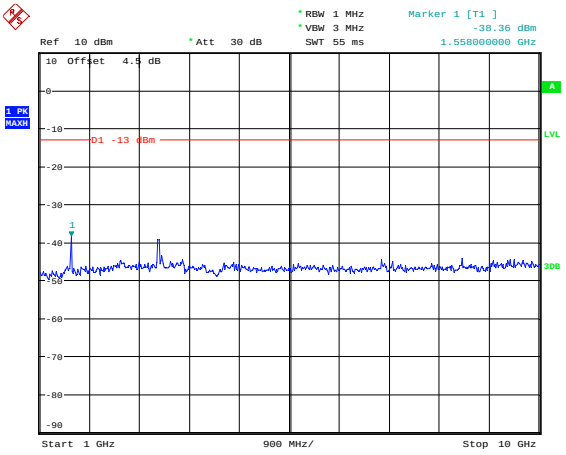

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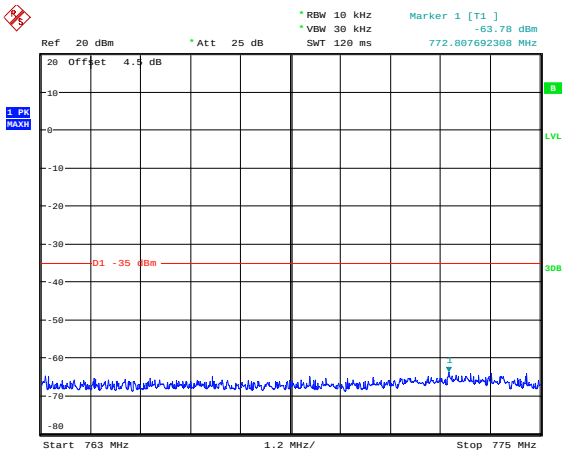

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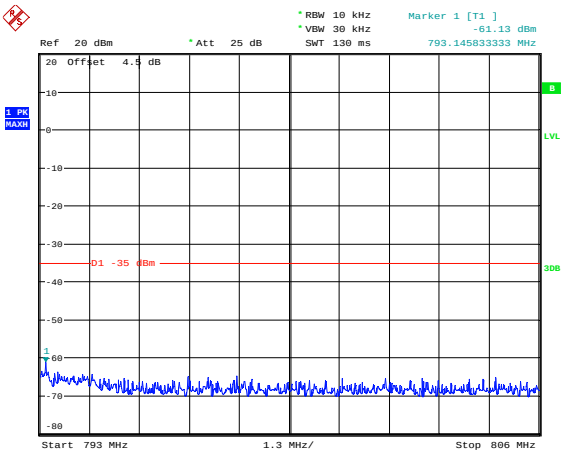

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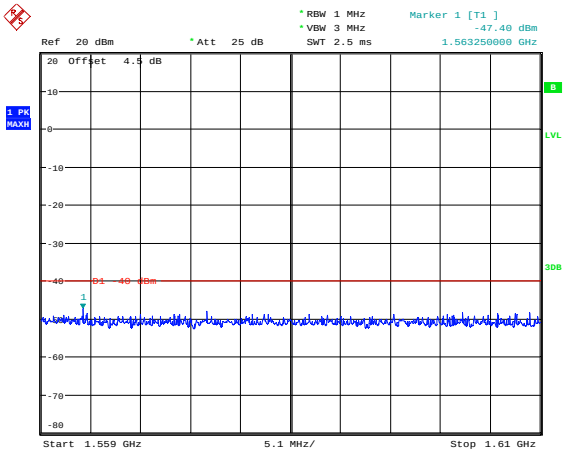
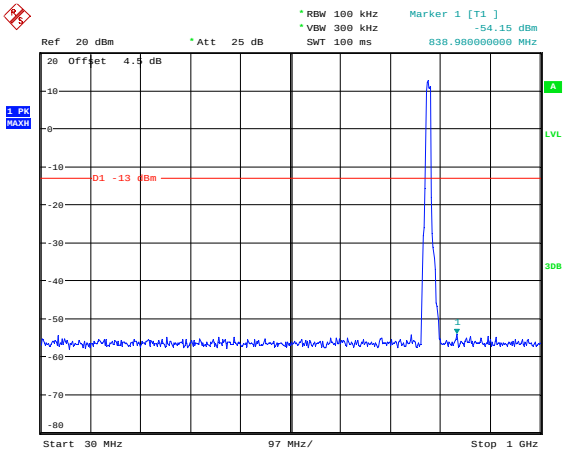
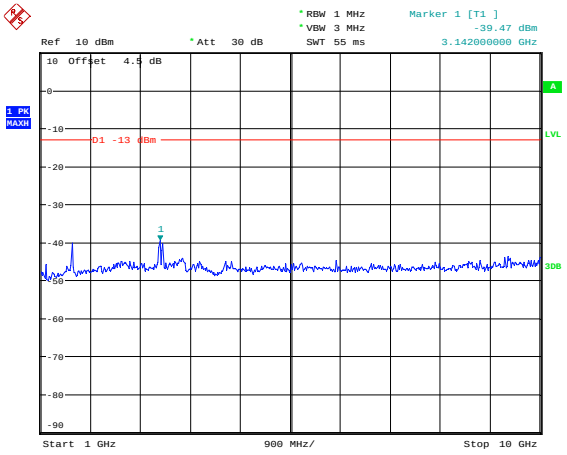


Date: 31.AUG.2021 10:47:54

10M, QPSK



Date: 25.AUG.2021 13:59:35



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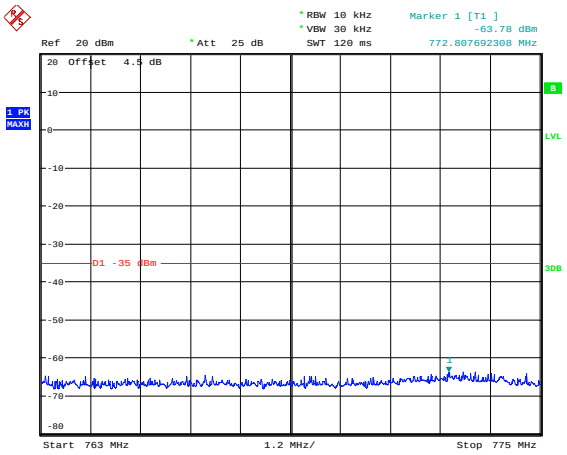

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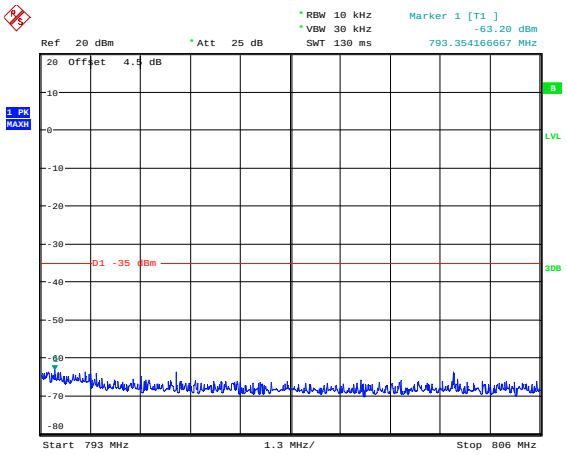

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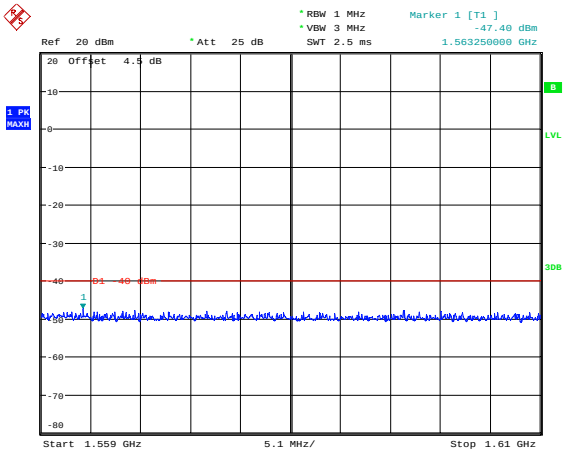
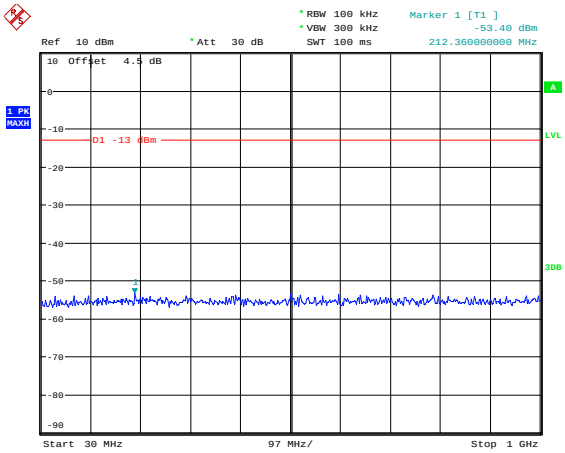


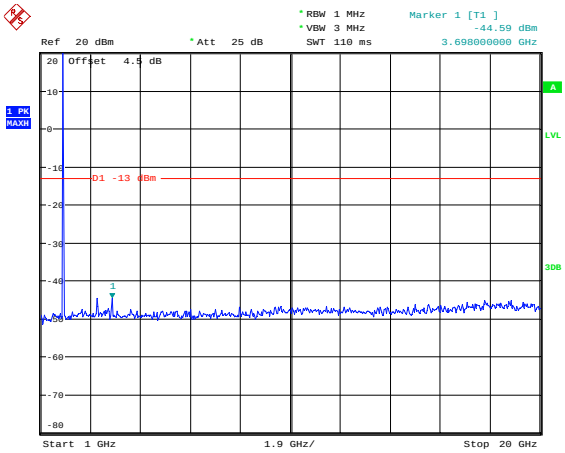
Date: 31.AUG.2021 10:48:38

LTE Band 25:

1.4M, QPSK, Low Channel

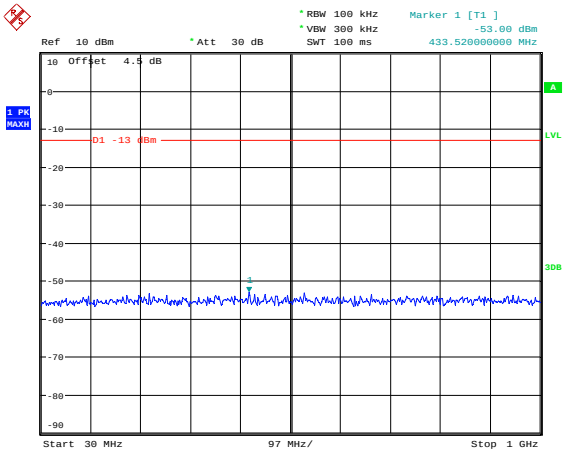


Date: 25.AUG.2021 14:00:08

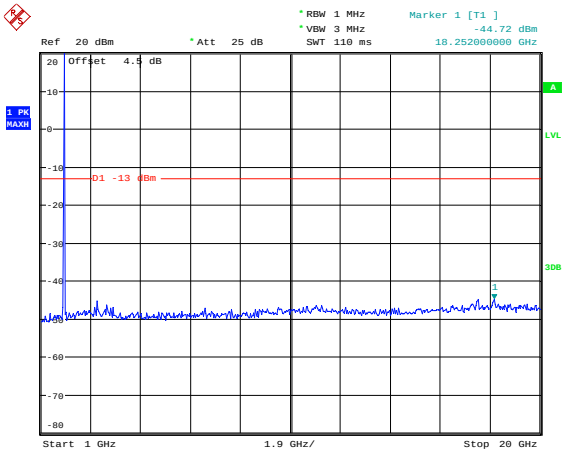


Date: 25.AUG.2021 14:00:22

1.4M, QPSK, Middle Channel

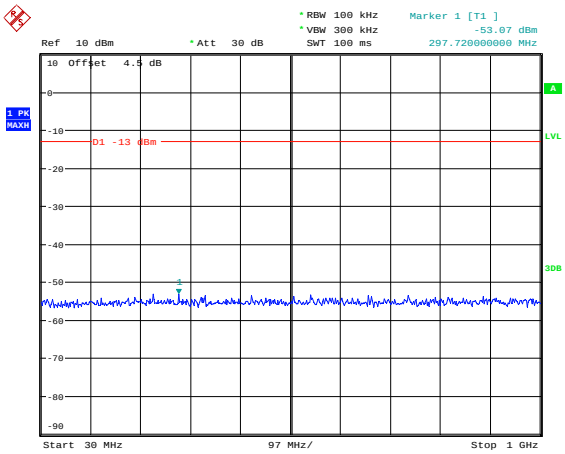


Date: 25.AUG.2021 14:00:42

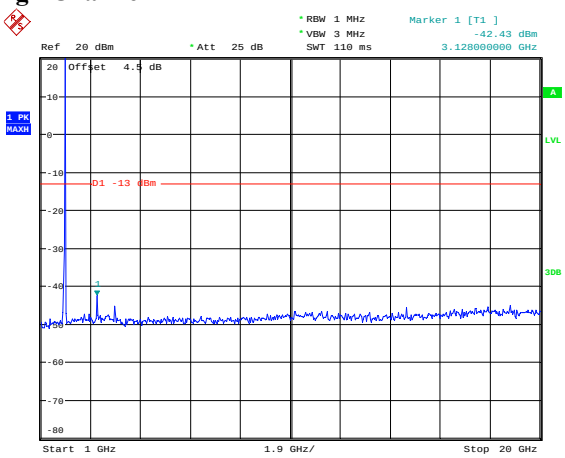


Date: 25.AUG.2021 14:00:56

1.4M, QPSK, High Channel

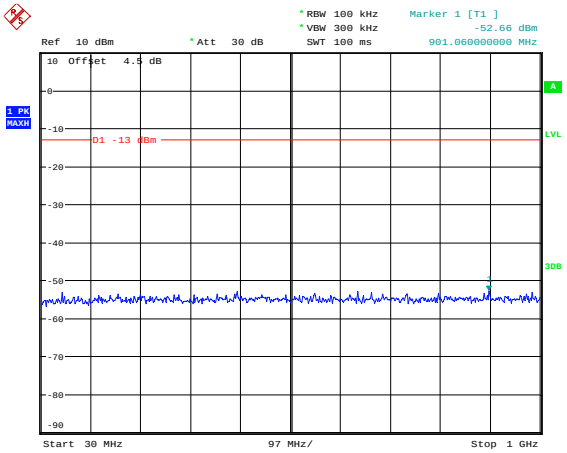


Date: 25.AUG.2021 14:01:17

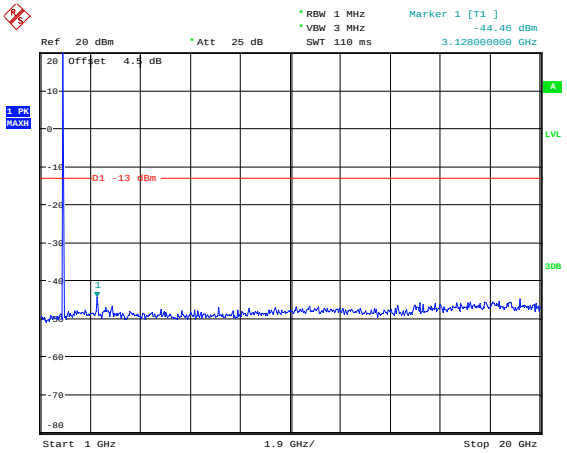


Date: 25.AUG.2021 14:01:30

3M, QPSK, Low Channel

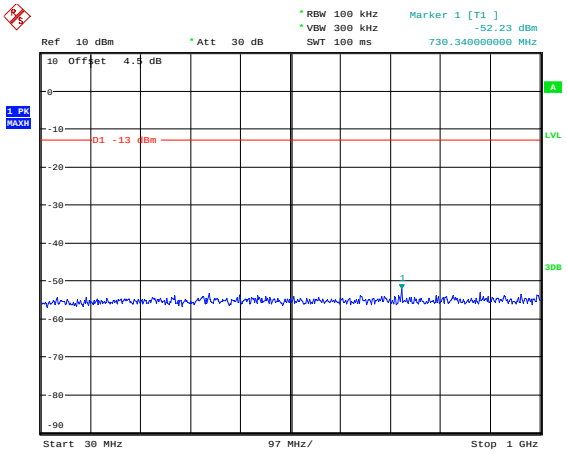


Date: 25.AUG.2021 14:02:02

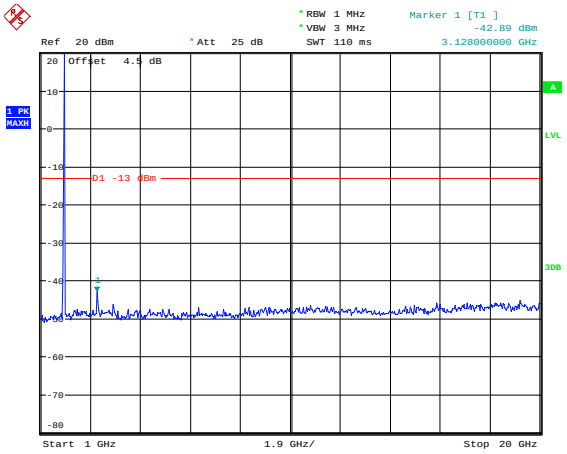


Date: 25.AUG.2021 14:02:15

3M, QPSK, Middle Channel

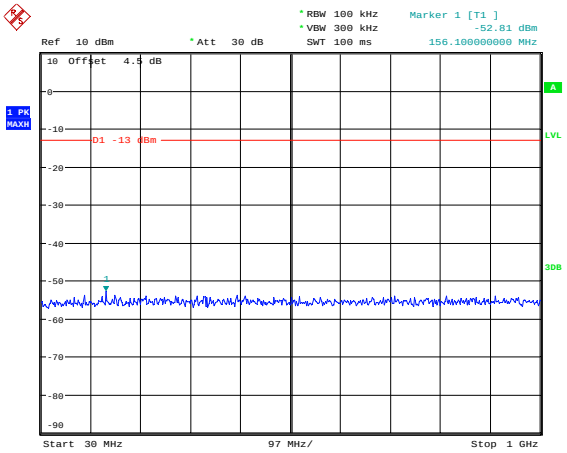


Date: 25.AUG.2021 14:02:36



Date: 25.AUG.2021 14:02:50

3M, QPSK, High Channel



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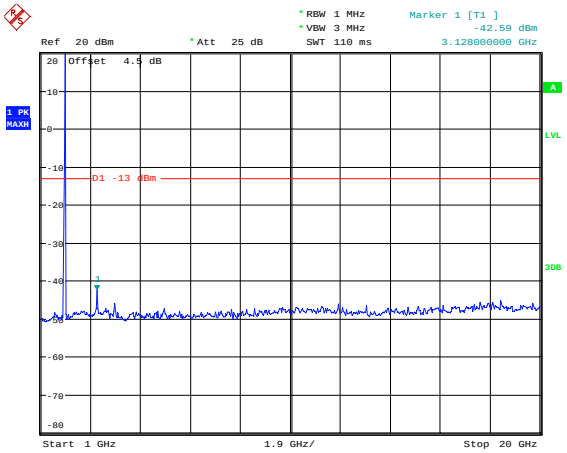
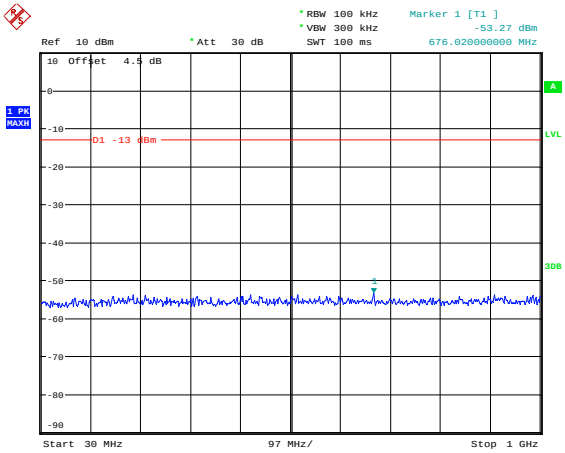


Date: 25.AUG.2021 14:03:21

5M, QPSK, Low Channel



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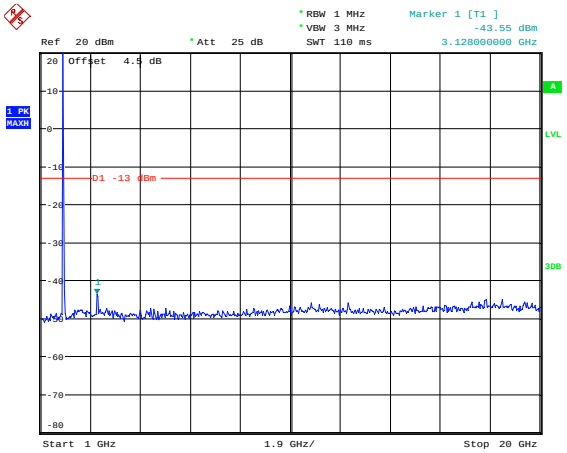
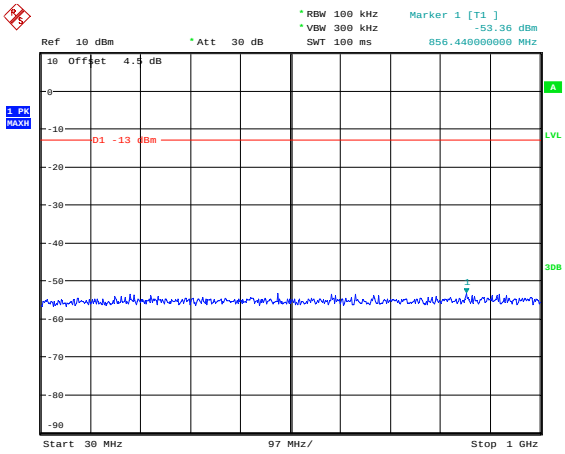
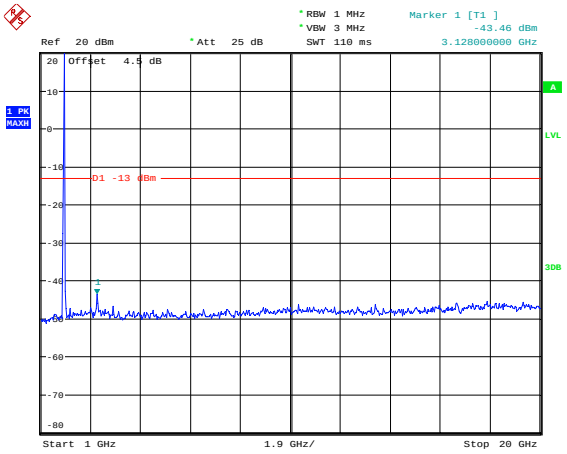


Date: 25.AUG.2021 14:03:55

5M, QPSK, Middle Channel

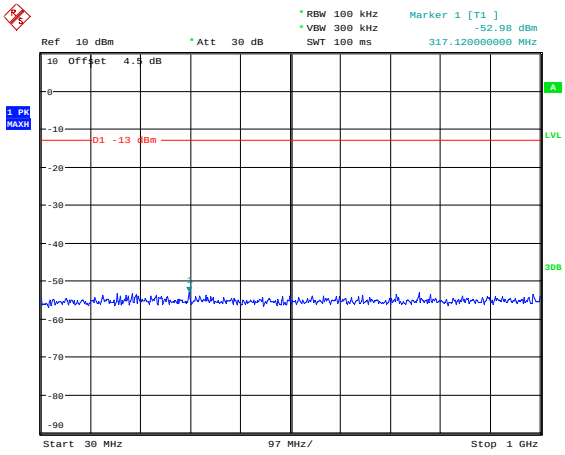


Date: 25.AUG.2021 14:04:15

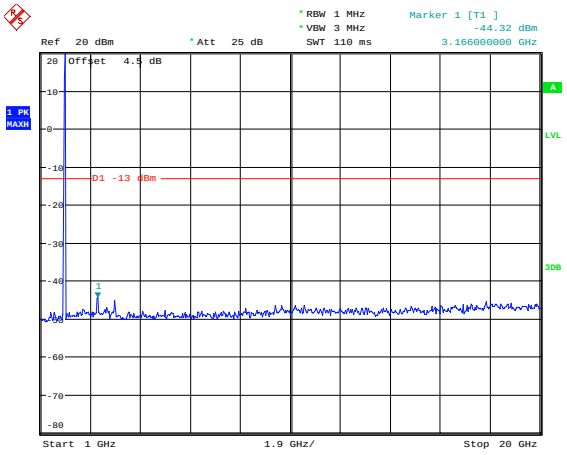


Date: 25.AUG.2021 14:04:29

5M, QPSK, High Channel

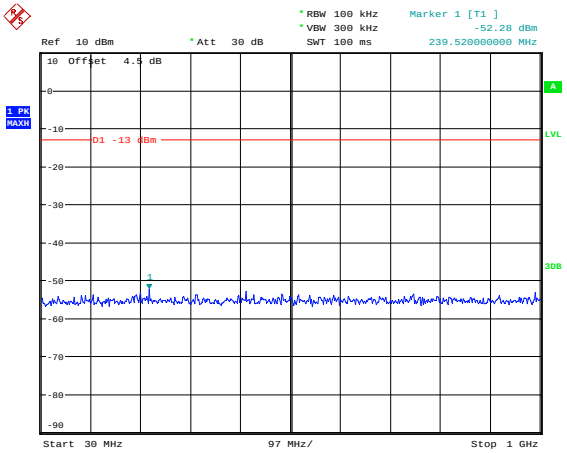


Date: 25.AUG.2021 14:04:49

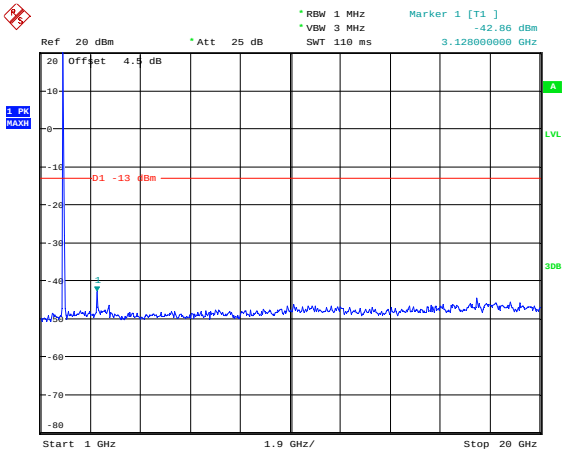


Date: 25.AUG.2021 14:05:03

10M, QPSK, Low Channel

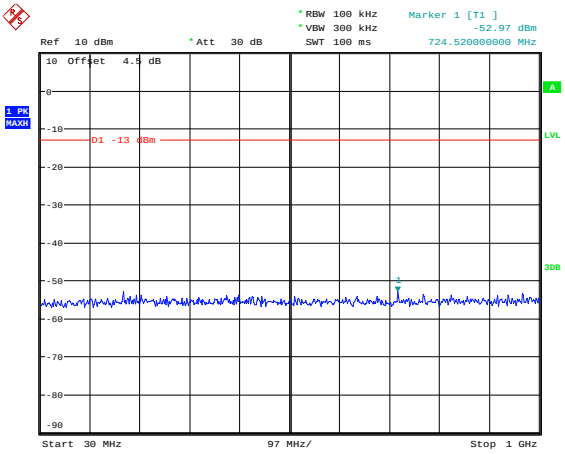


Date: 25.AUG.2021 14:05:28

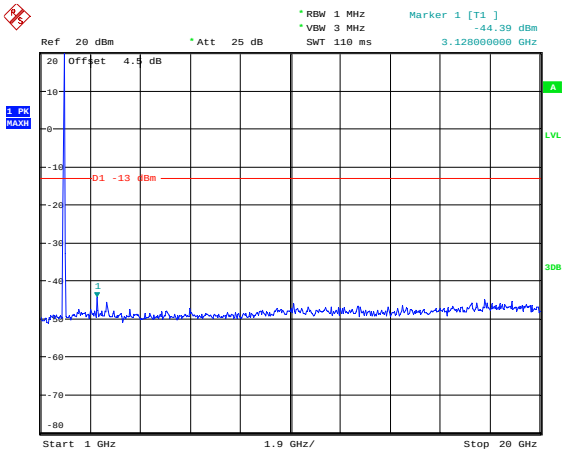


Date: 25.AUG.2021 14:05:41

10M, QPSK, Middle Channel

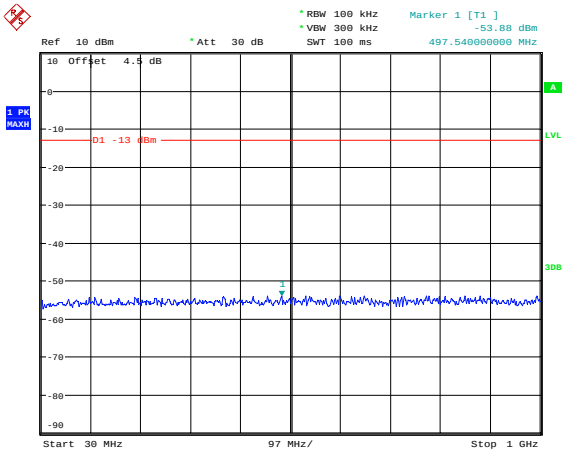


Date: 25.AUG.2021 14:06:00

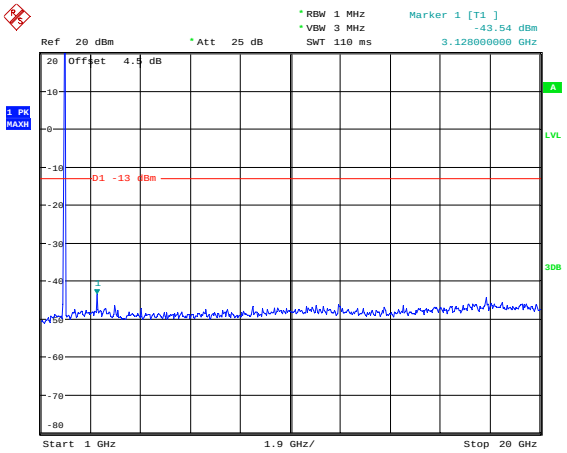


Date: 25.AUG.2021 14:06:10

10M, QPSK, High Channel

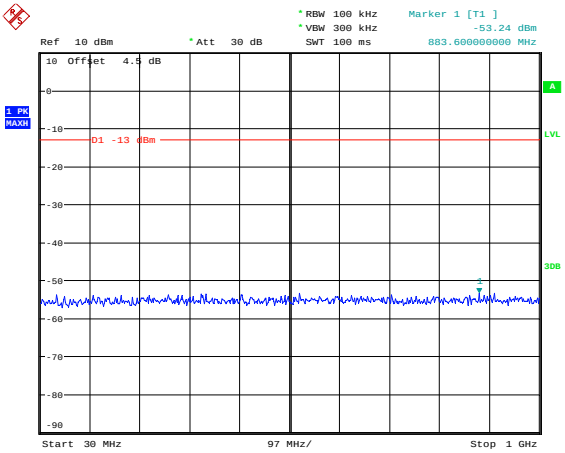


Date: 25.AUG.2021 14:06:29

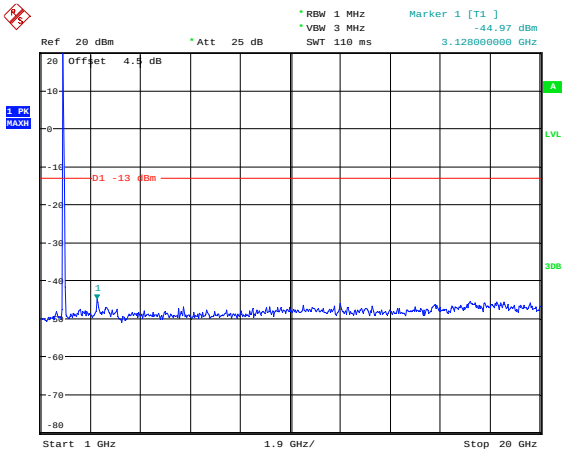


Date: 25.AUG.2021 14:06:42

15M, QPSK, Low Channel

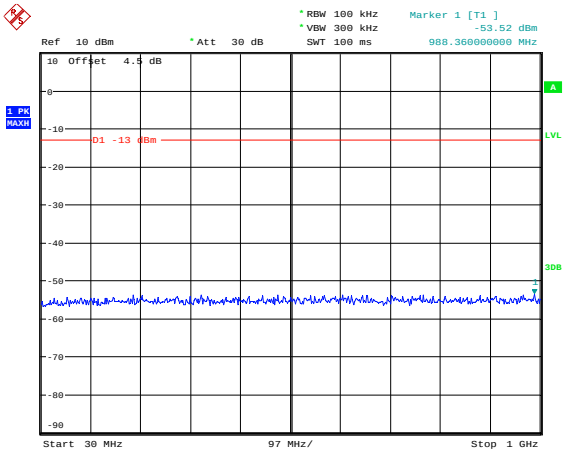


Date: 25.AUG.2021 14:07:09



Date: 25.AUG.2021 14:07:23

15M, QPSK, Middle Channel



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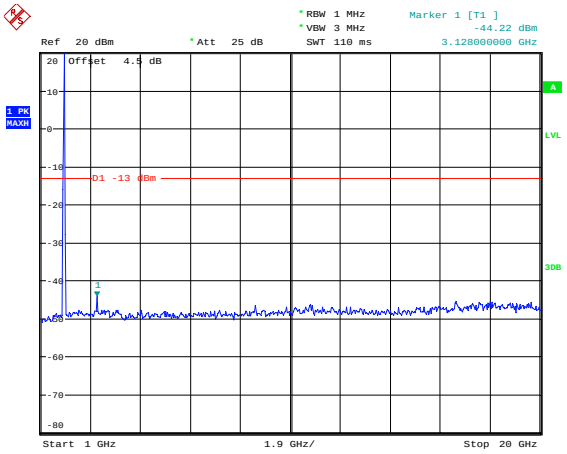
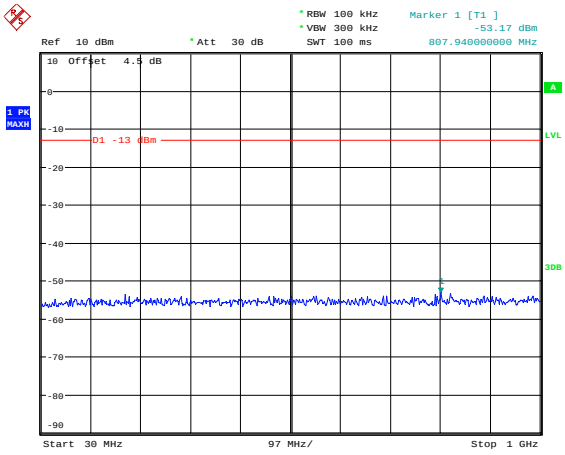


Date: 25.AUG.2021 14:08:00

15M, QPSK, High Channel



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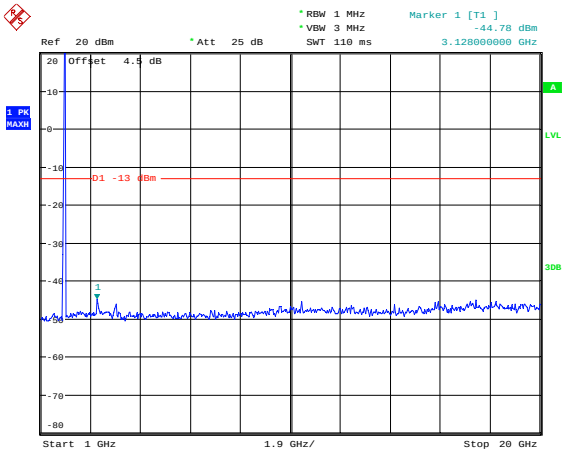
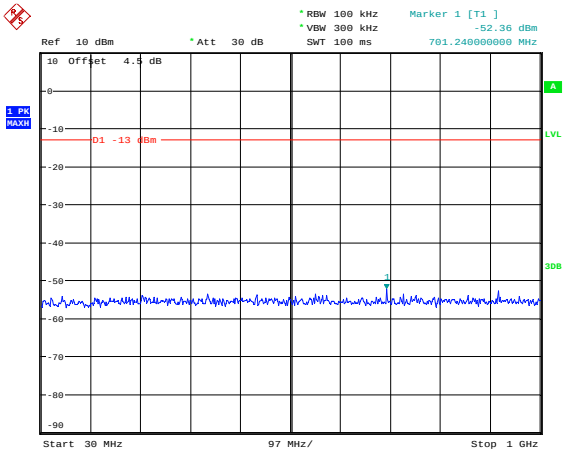


Date: 25.AUG.2021 14:08:35

20M, QPSK, Low Channel



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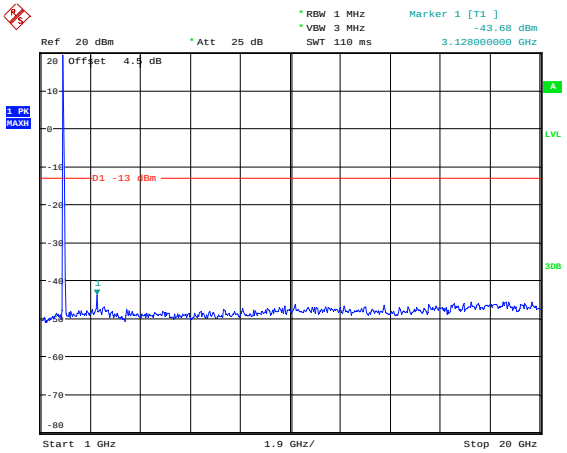
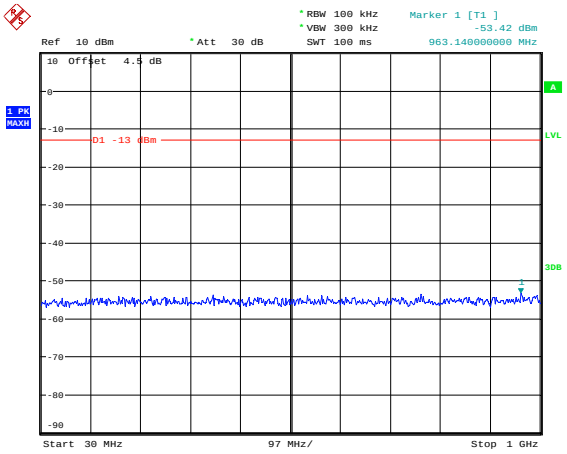


Date: 25.AUG.2021 14:09:12

20M, QPSK, Middle Channel



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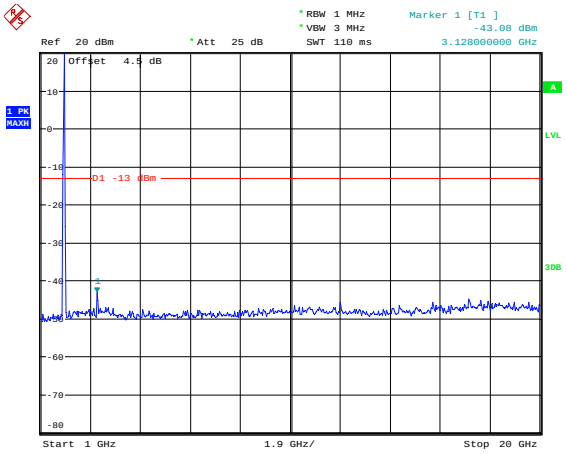
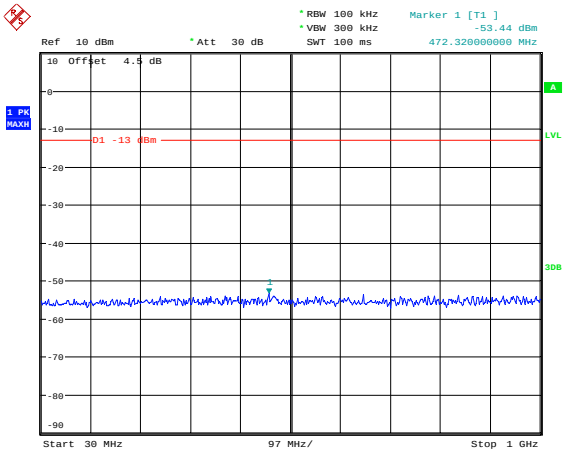


Date: 25.AUG.2021 14:09:47

20M, QPSK, High Channel



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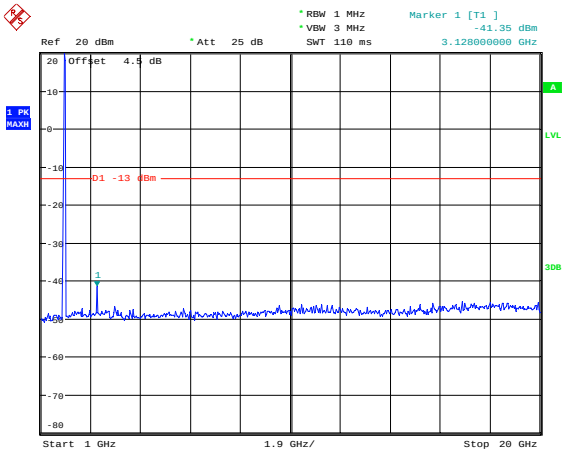
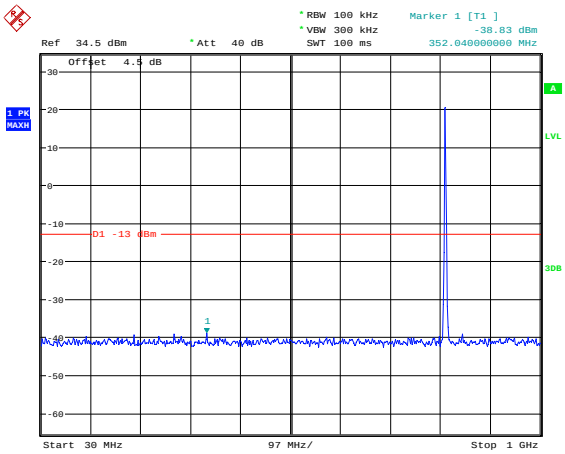


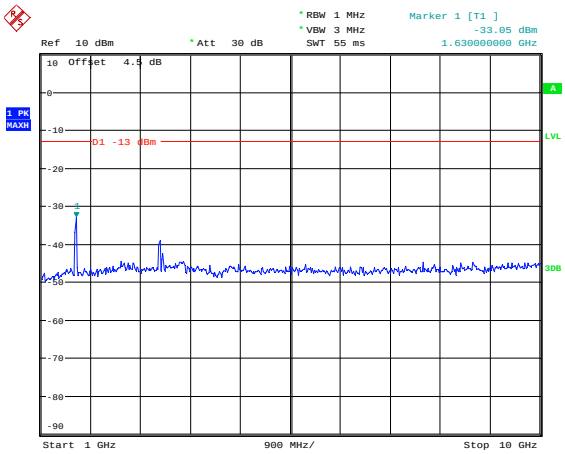
Date: 25.AUG.2021 14:10:22

LTE Band 26:

1.4M, QPSK, Low Channel

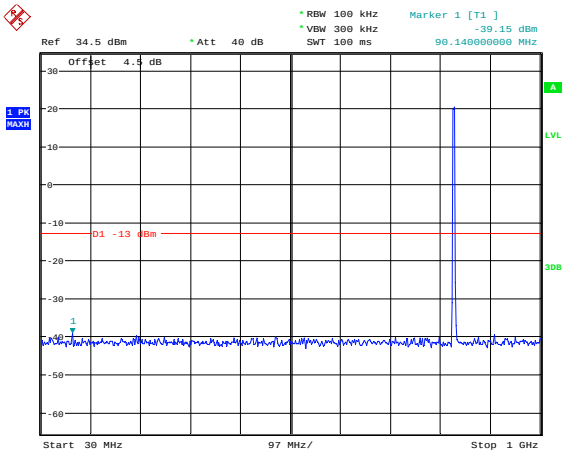


Date: 25.AUG.2021 14:11:03

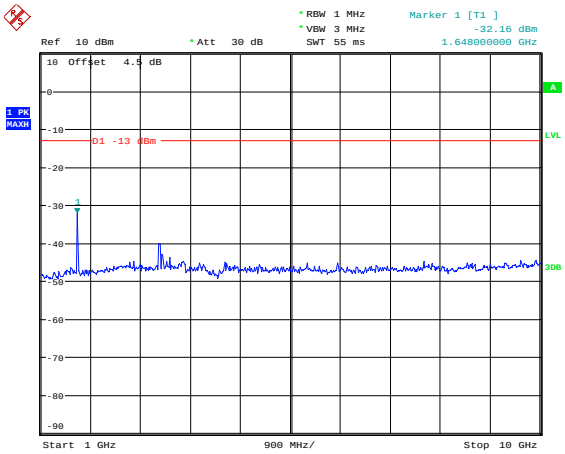


Date: 25.AUG.2021 14:11:17

1.4M, QPSK, Middle Channel

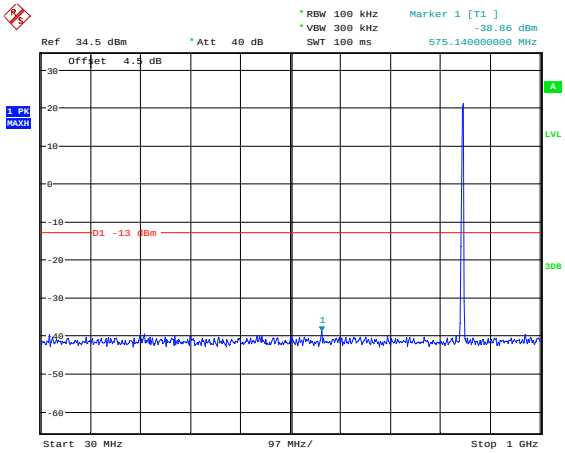


Date: 25.AUG.2021 14:11:46



Date: 25.AUG.2021 14:12:00

1.4M, QPSK, High Channel



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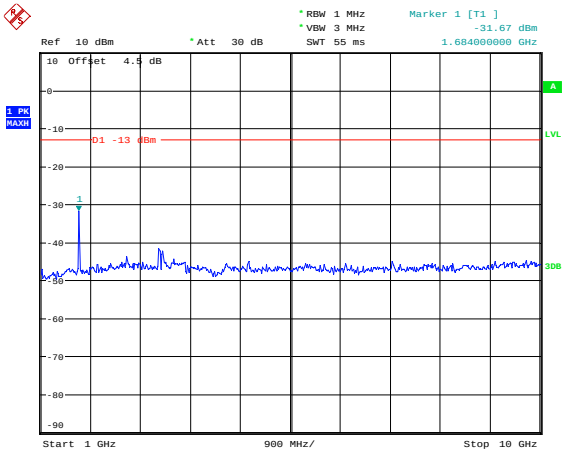

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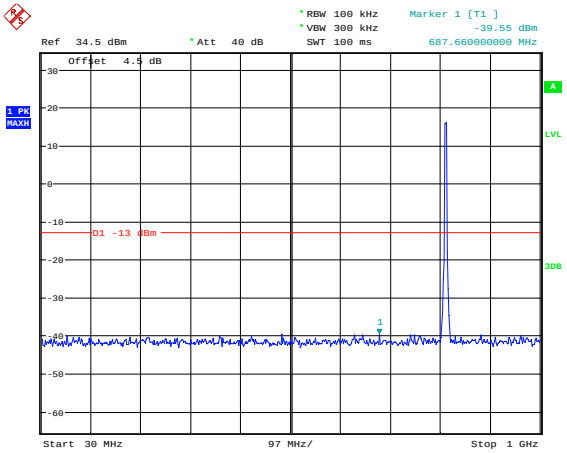
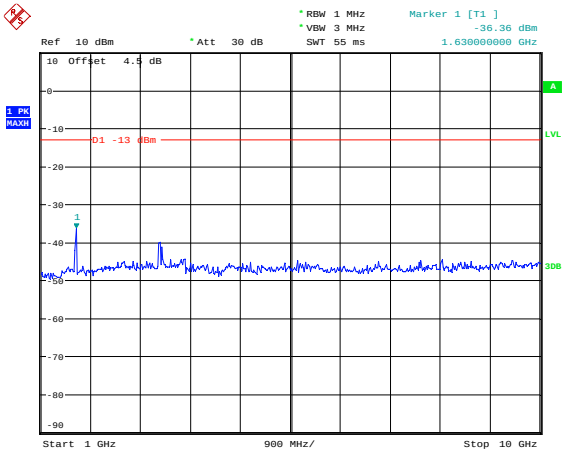
3M, QPSK, Low Channel

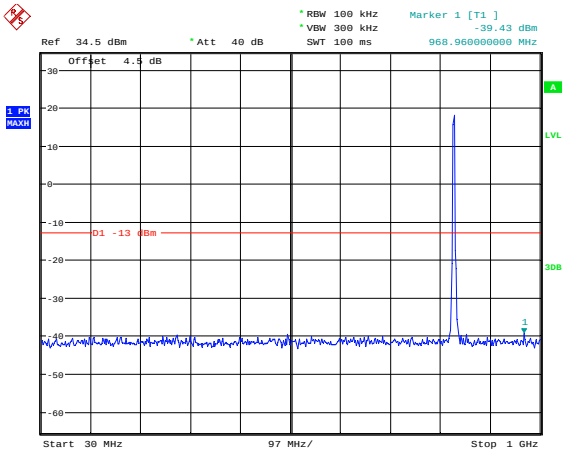


Date: 25.AUG.2021 14:13:18

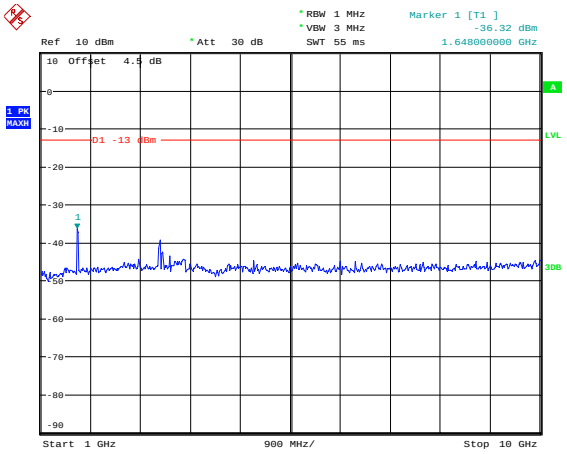


Date: 25.AUG.2021 14:13:31

3M, QPSK, Middle Channel

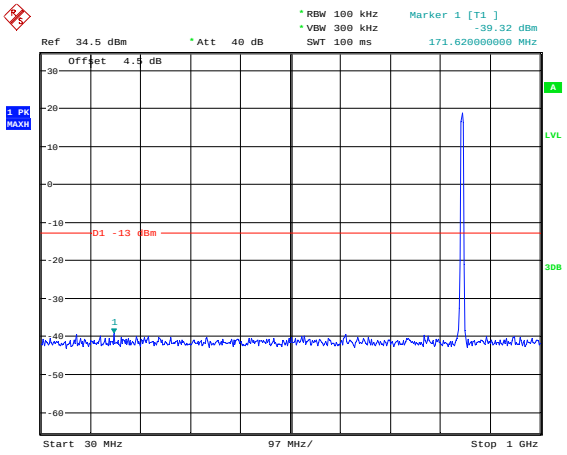


Date: 25.AUG.2021 14:14:05

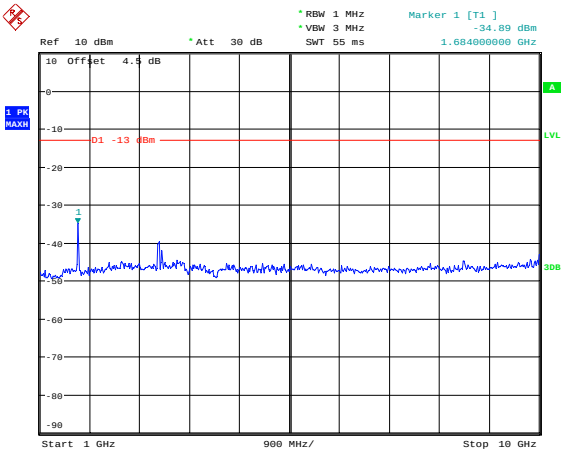


Date: 25.AUG.2021 14:14:18

3M, QPSK, High Channel

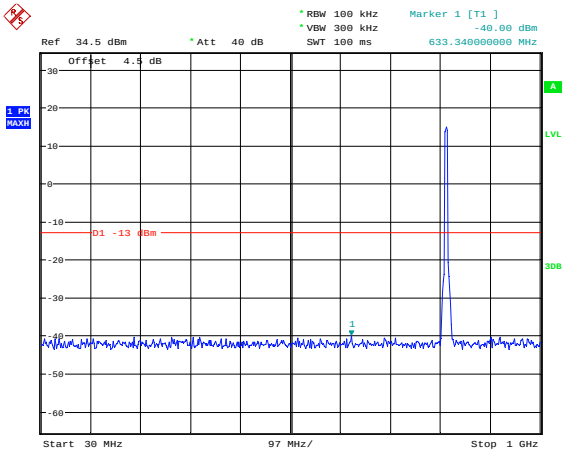


Date: 25.AUG.2021 14:14:49



Date: 25.AUG.2021 14:15:02

5M, QPSK, Low Channel



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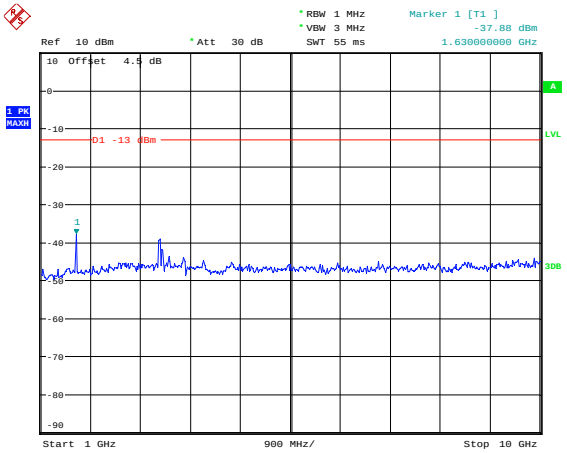
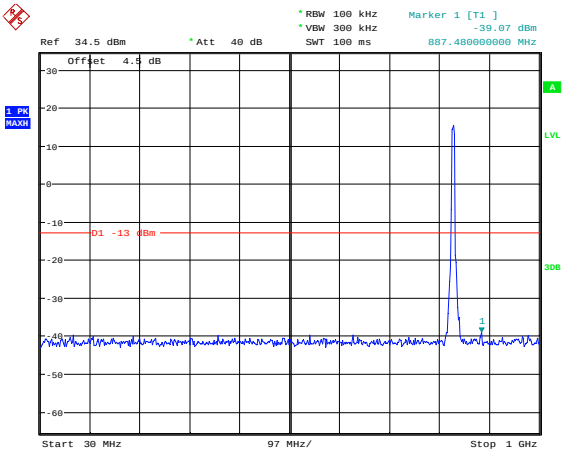


Date: 25.AUG.2021 14:15:50

5M, QPSK, Middle Channel



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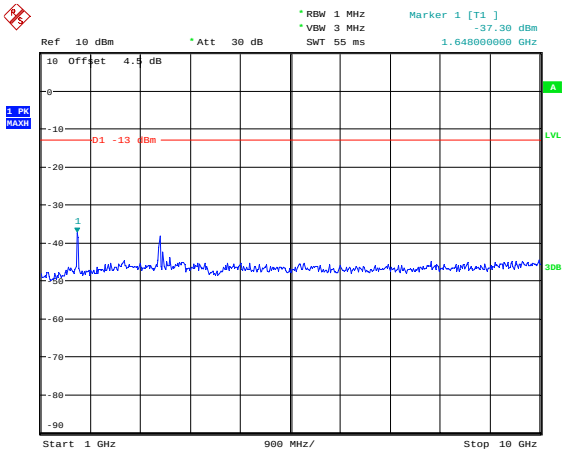
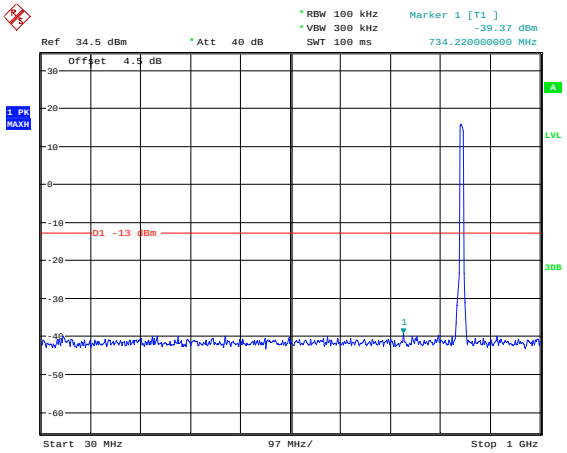
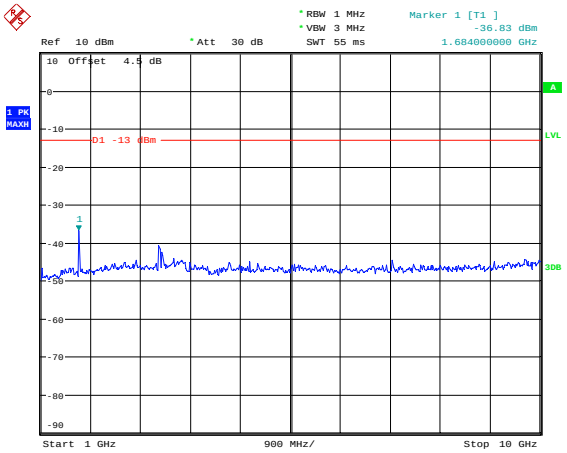


Date: 25.AUG.2021 14:16:35

5M, QPSK, High Channel

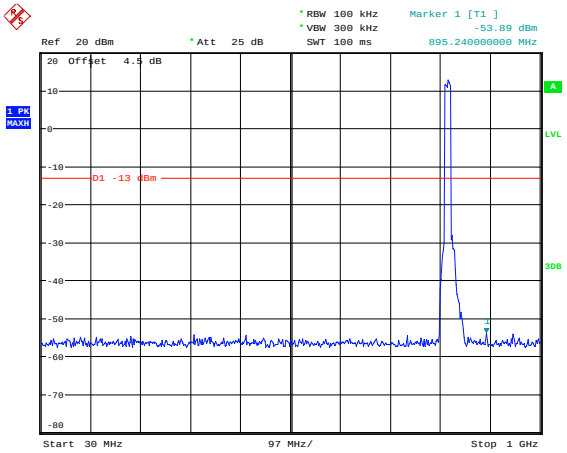


Date: 25.AUG.2021 14:17:09

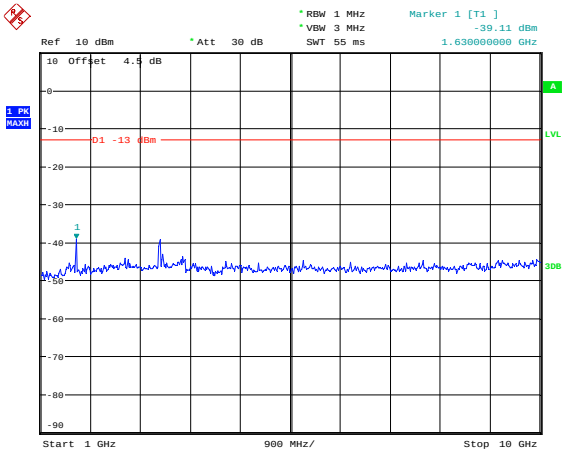


Date: 25.AUG.2021 14:17:22

10M, QPSK, Low Channel

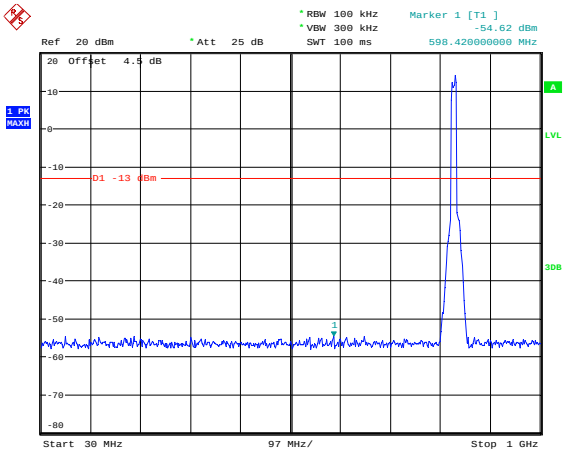


Date: 25.AUG.2021 14:17:46

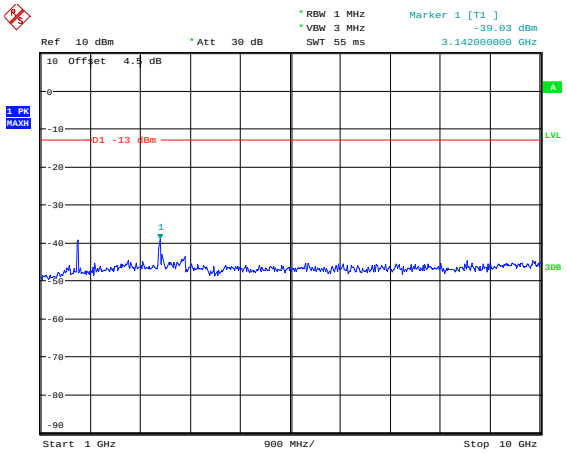


Date: 25.AUG.2021 14:18:00

10M, QPSK, Middle Channel

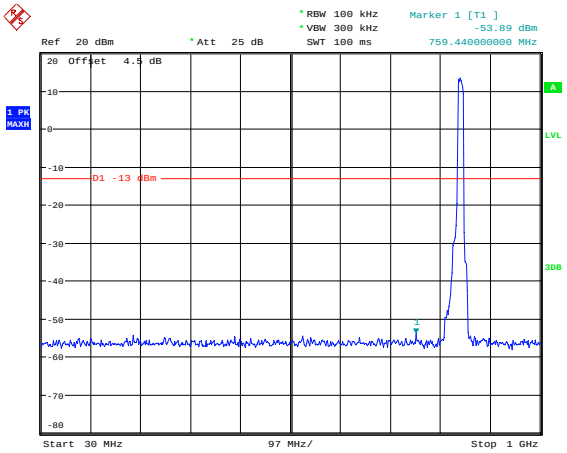


Date: 25.AUG.2021 14:18:18



Date: 25.AUG.2021 14:18:32

10M, QPSK, High Channel



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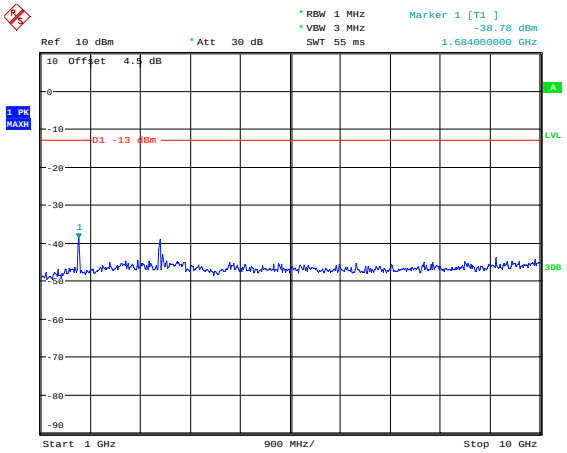
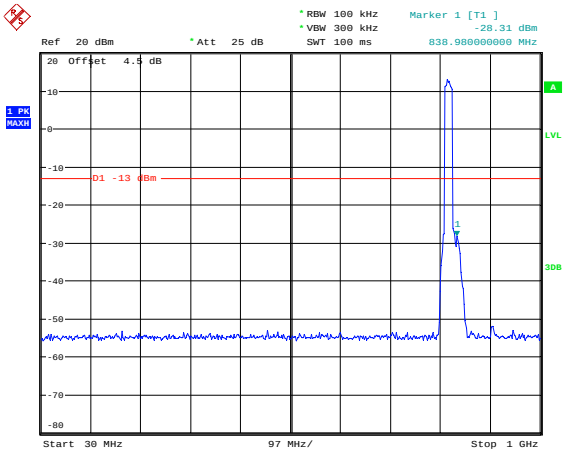
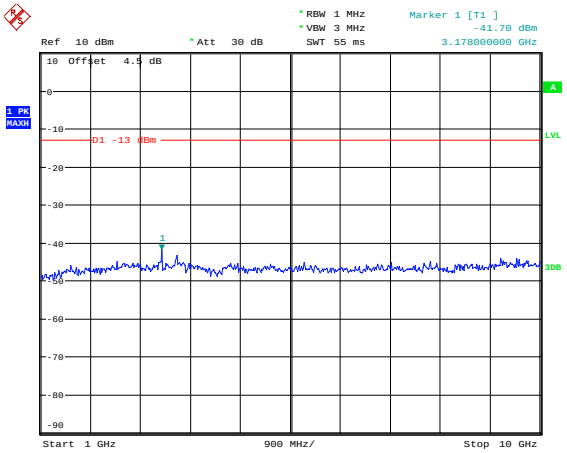


Date: 25.AUG.2021 14:19:08

15M, QPSK, Low Channel

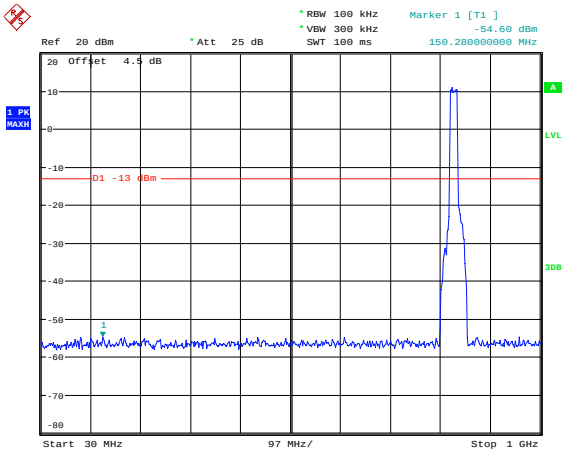


Date: 25.AUG.2021 14:26:42



Date: 25.AUG.2021 14:26:56

15M, QPSK, Middle Channel



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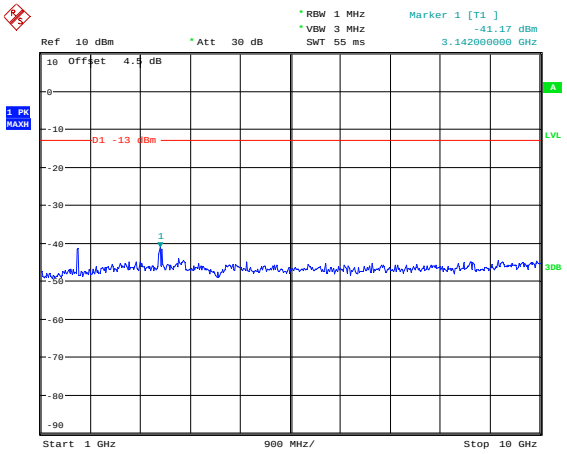
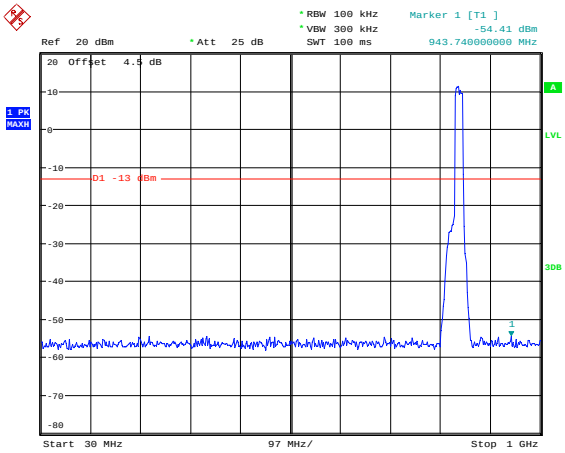
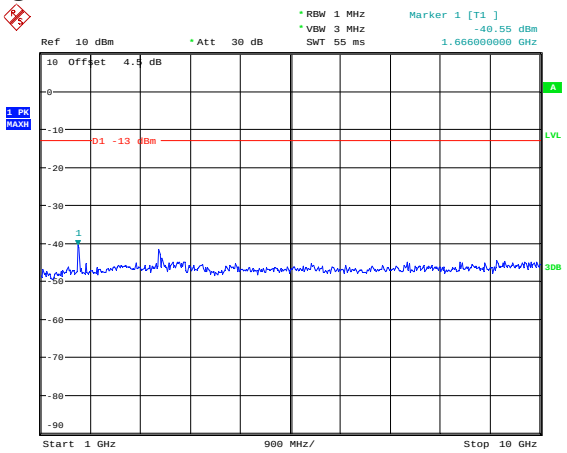


Date: 25.AUG.2021 14:32:18

15M, QPSK, High Channel



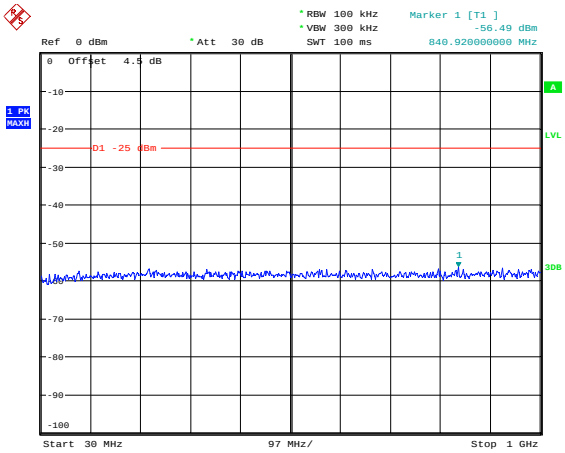
Date: 25.AUG.2021 14:32:39



Date: 25.AUG.2021 14:32:53

LTE Band 41:

5M, QPSK, Low Channel



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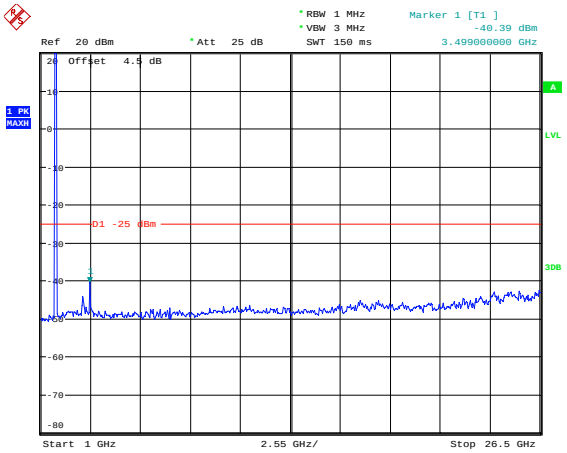
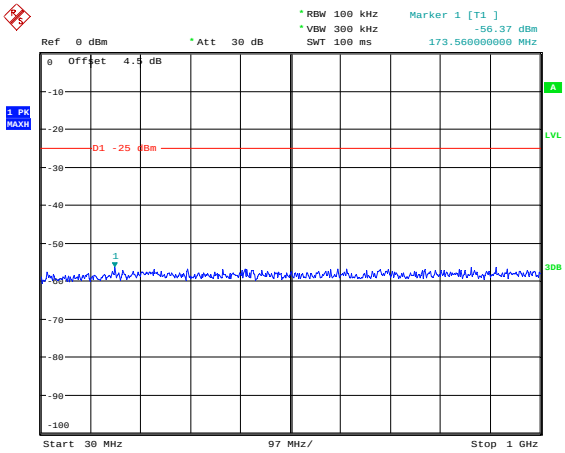
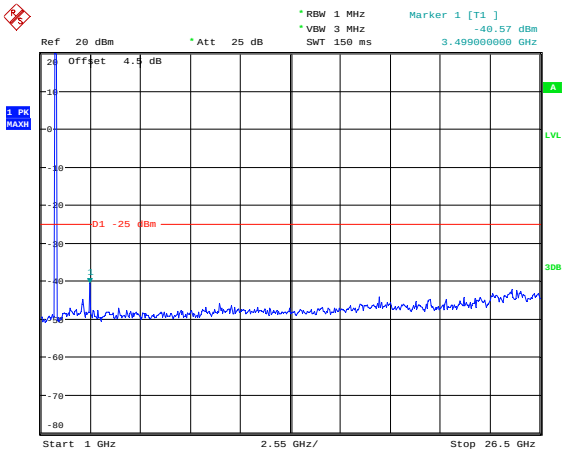


Date: 25.AUG.2021 14:44:08

5M, QPSK, Middle Channel

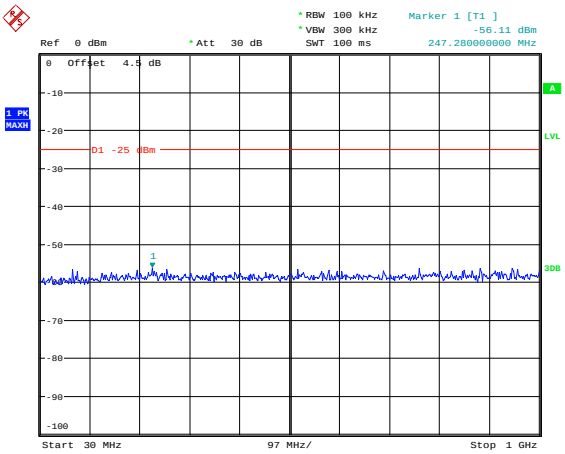


Date: 25.AUG.2021 14:44:31

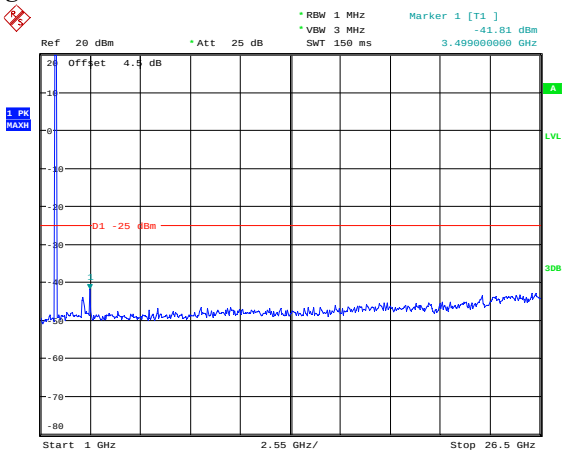


Date: 25.AUG.2021 14:44:45

5M, QPSK, High Channel

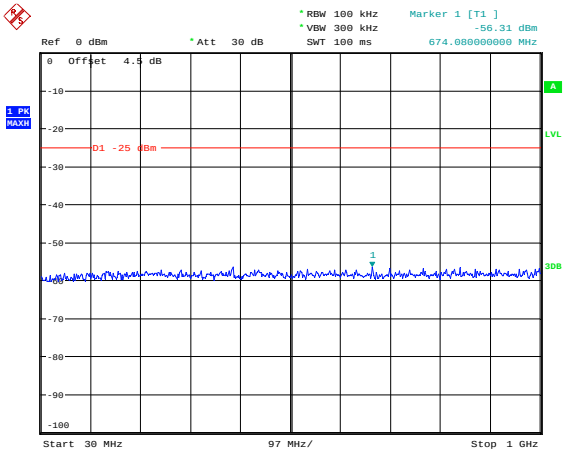


Date: 25.AUG.2021 14:45:05



Date: 25.AUG.2021 14:45:19

10M, QPSK, Low Channel



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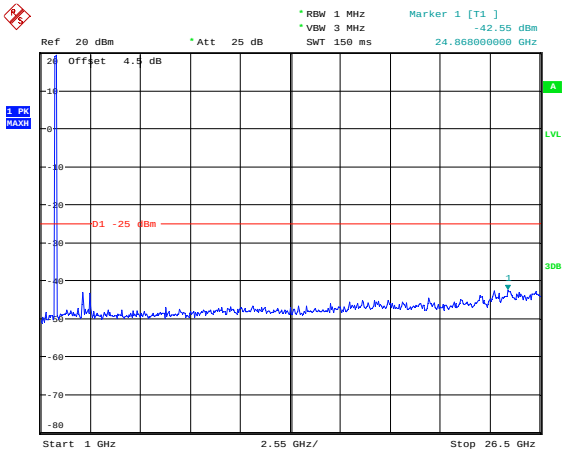
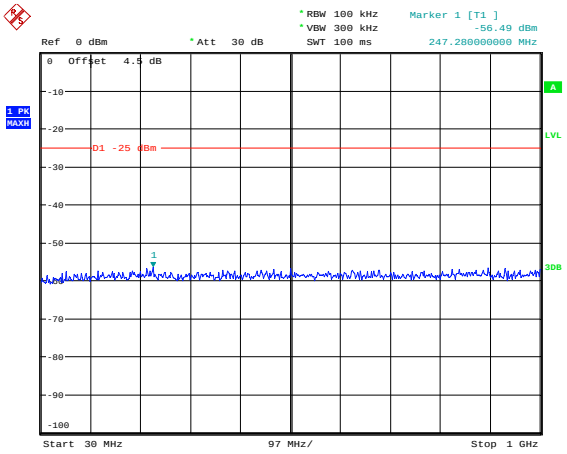
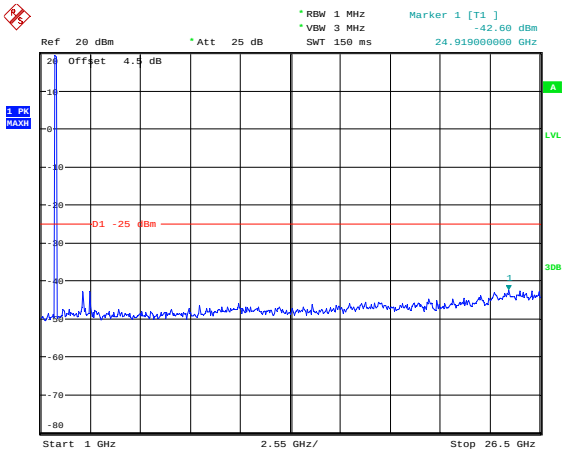


Date: 25.AUG.2021 14:45:56

10M, QPSK, Middle Channel

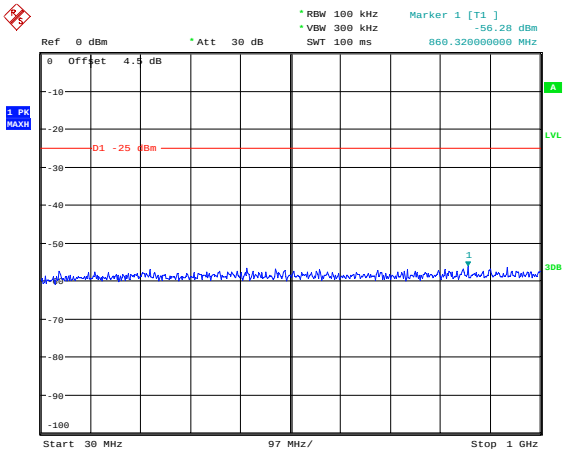


Date: 25.AUG.2021 14:46:15



Date: 25.AUG.2021 14:46:29

10M, QPSK, High Channel



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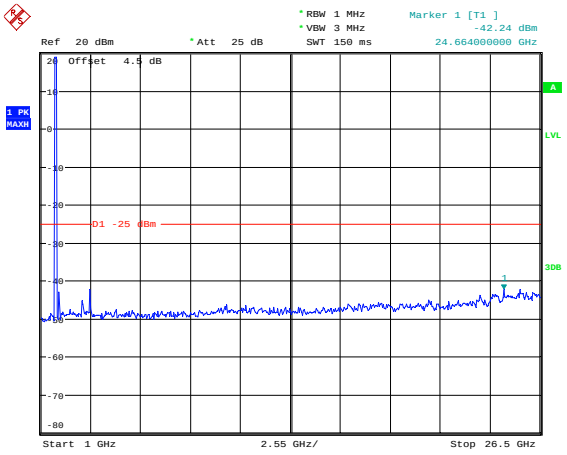
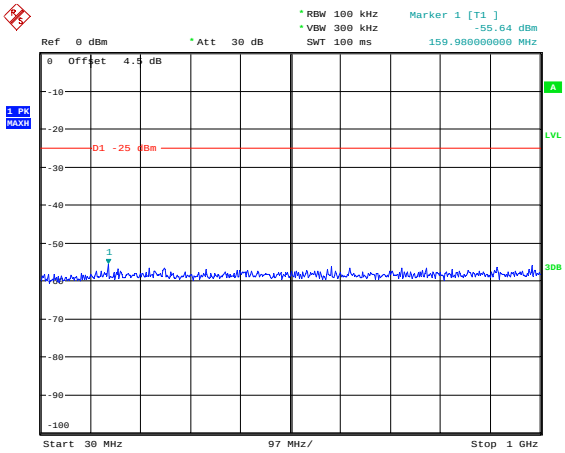


Date: 25.AUG.2021 14:47:02

15M, QPSK, Low Channel



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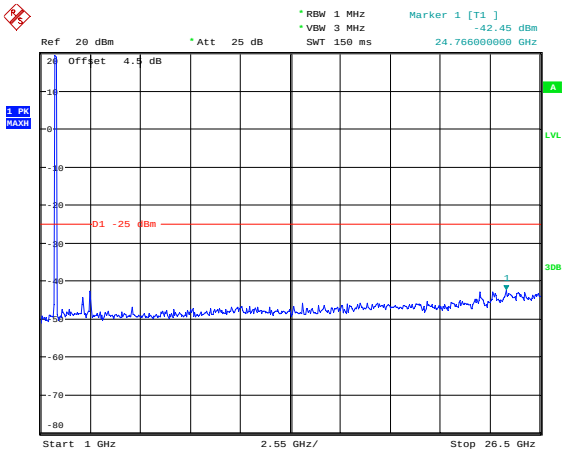

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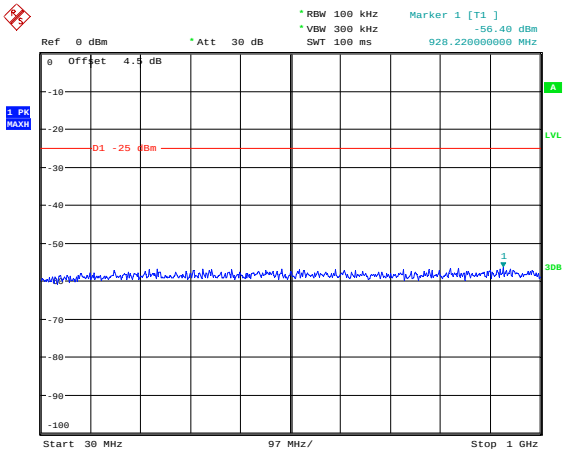
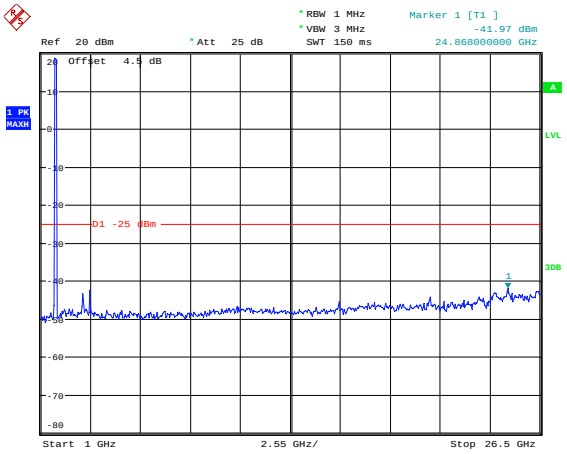
15M, QPSK, Middle Channel



Date: 25.AUG.2021 14:48:02



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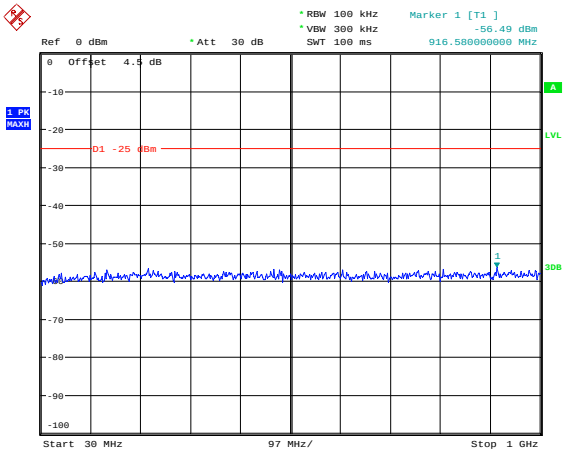
15M, QPSK, High Channel



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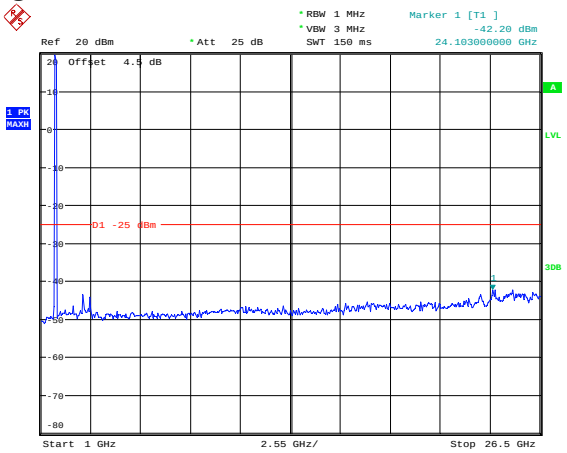

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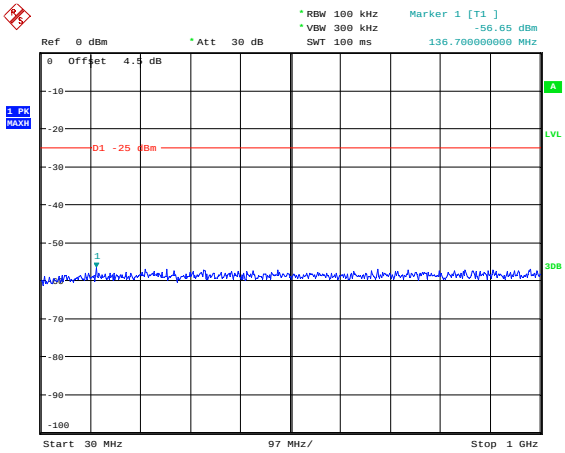
20M, QPSK, Low Channel



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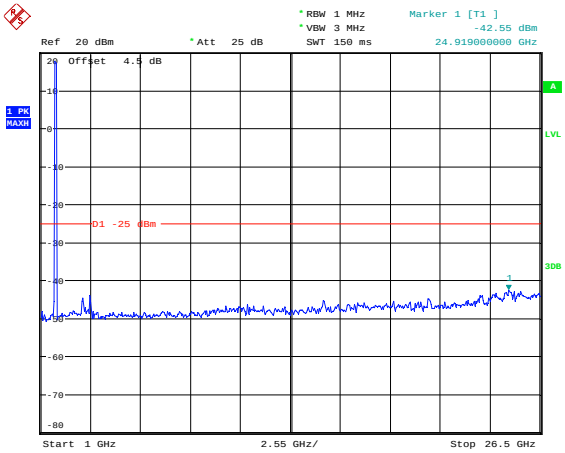
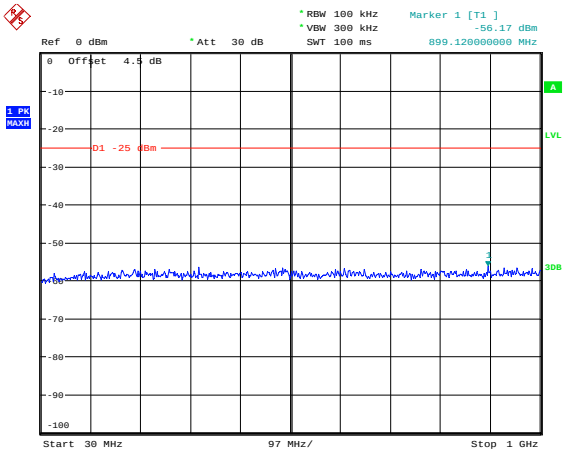


Date: 25.AUG.2021 14:49:23

20M, QPSK, Middle Channel



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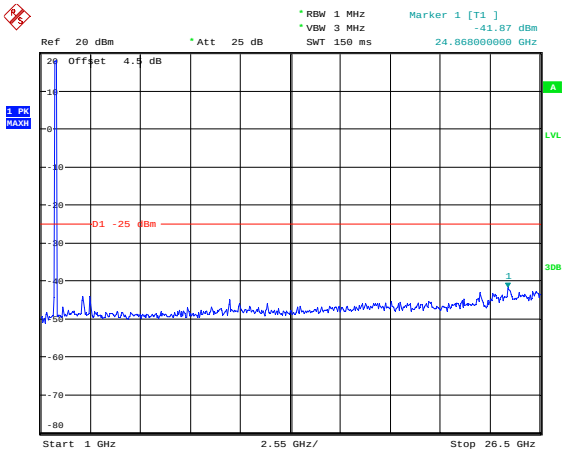

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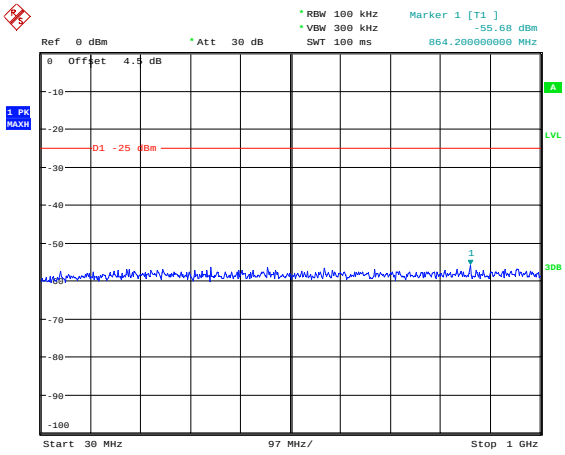
20M, QPSK, High Channel



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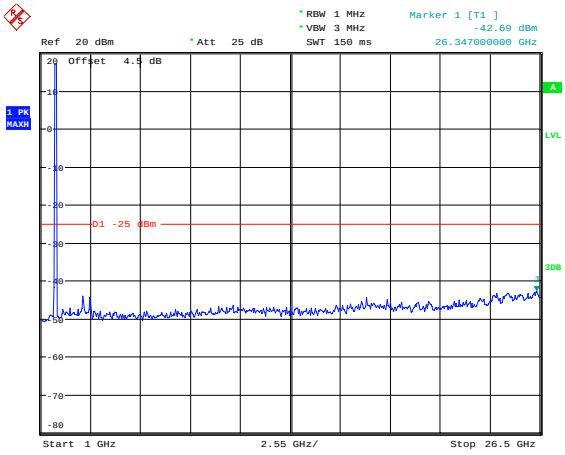

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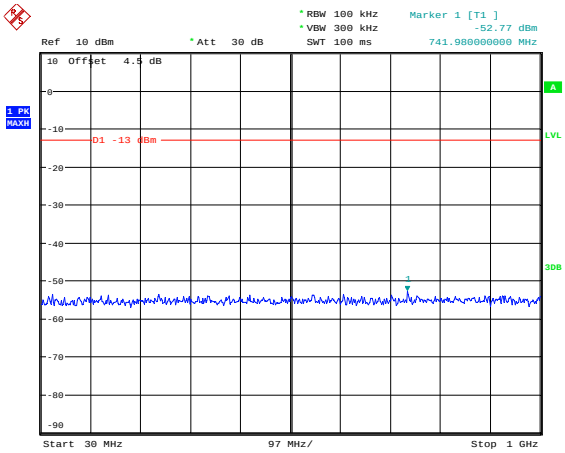
LTE Band 66:

1.4M, QPSK, Low Channel



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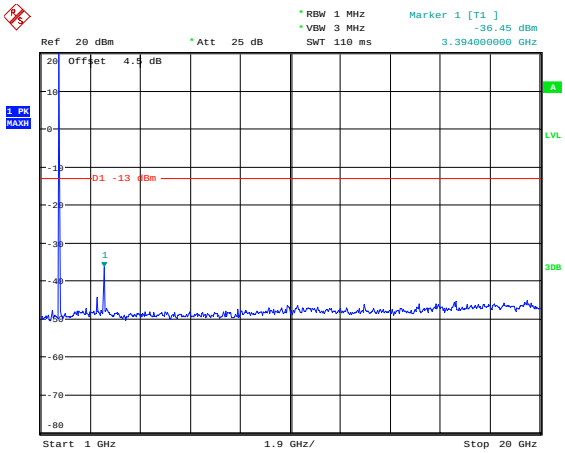

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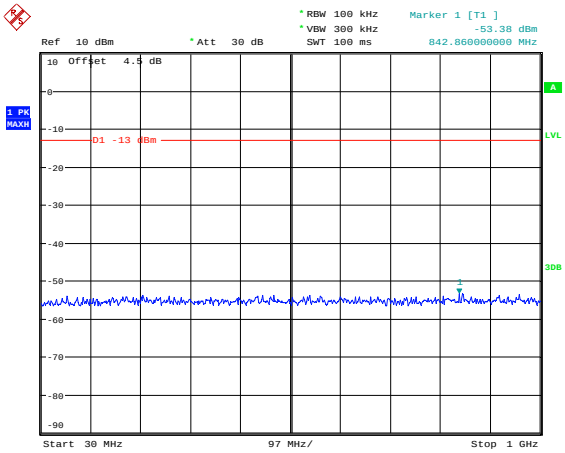
1.4M, QPSK, Middle Channel



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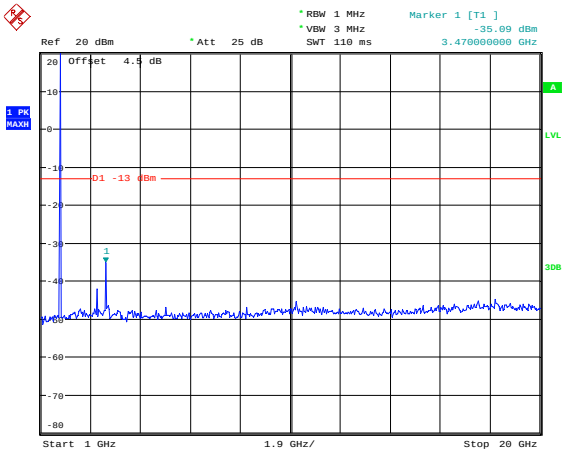
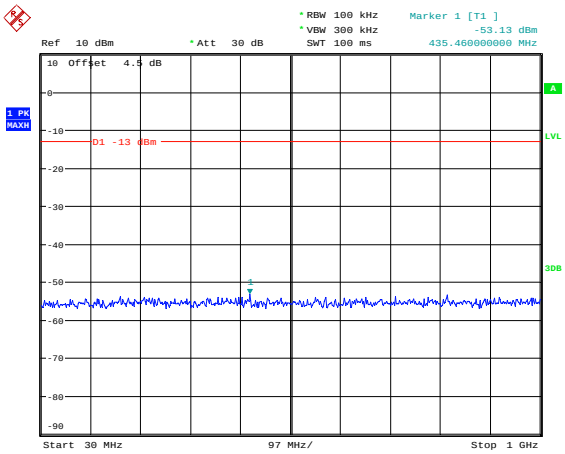


Date: 25.AUG.2021 14:34:07

1.4M, QPSK, High Channel



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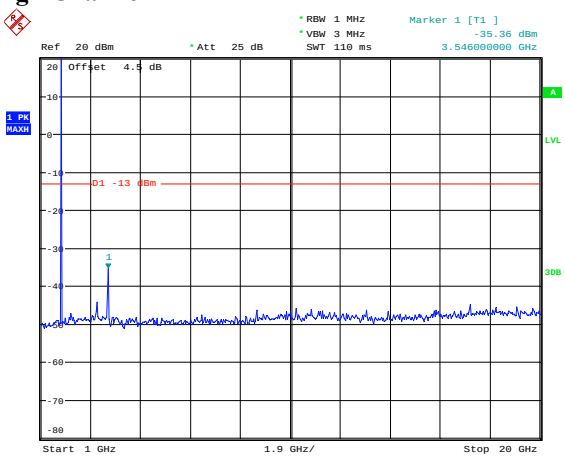
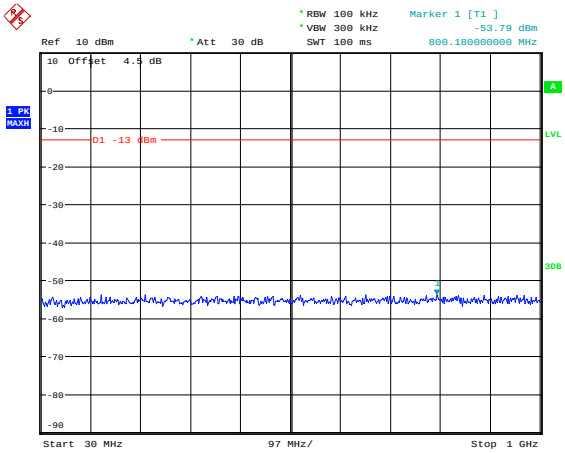


Date: 25.AUG.2021 14:34:35

3M, QPSK, Low Channel



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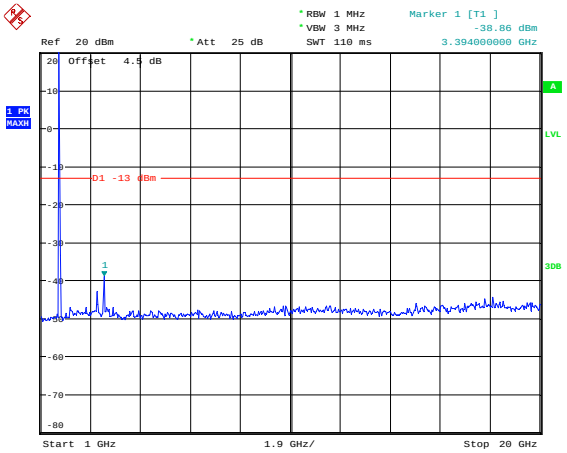

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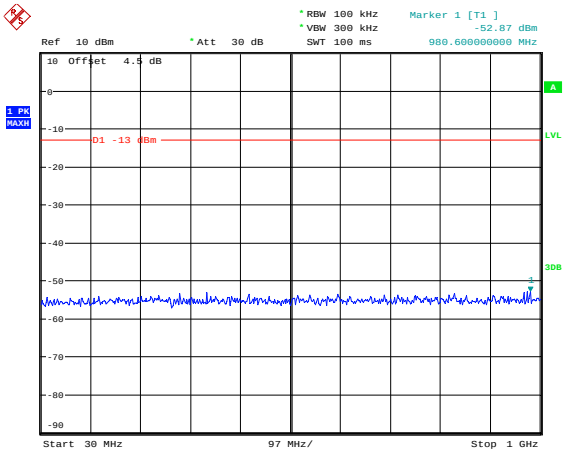
3M, QPSK, Middle Channel



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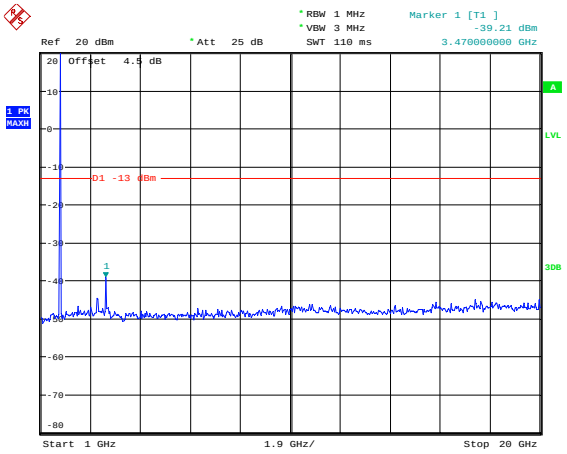
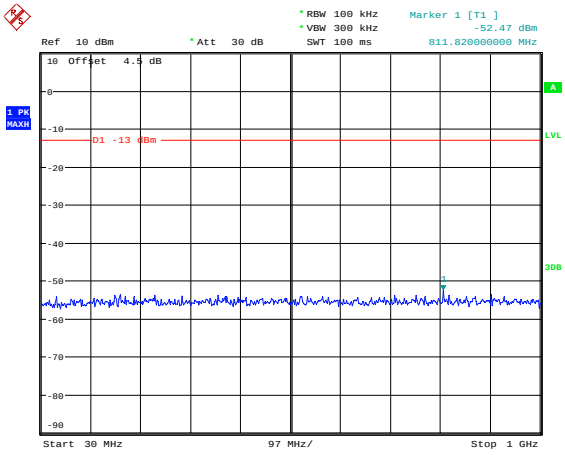


Date: 25.AUG.2021 14:35:46

3M, QPSK, High Channel



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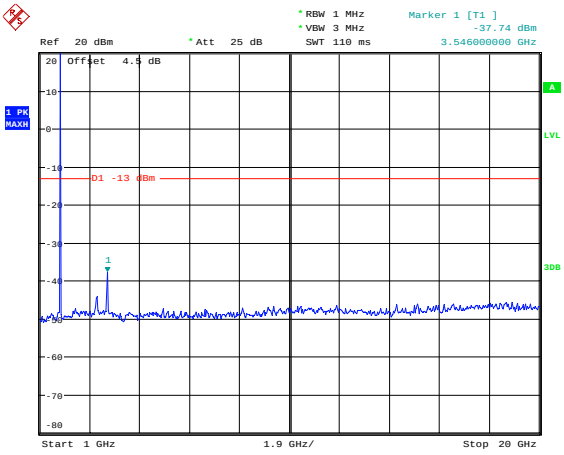

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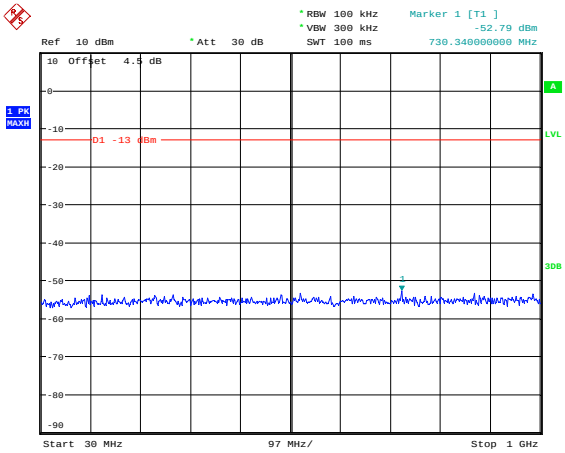
5M, QPSK, Low Channel



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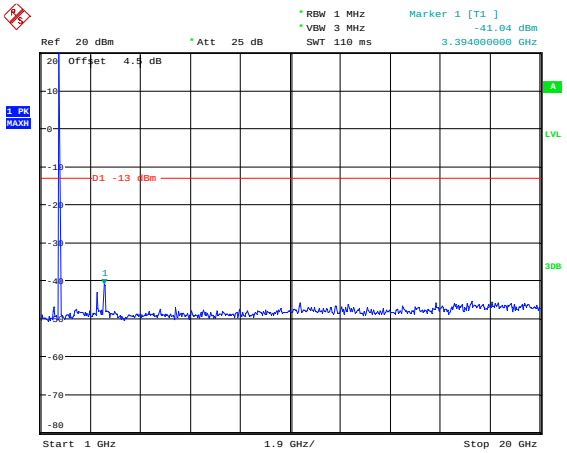
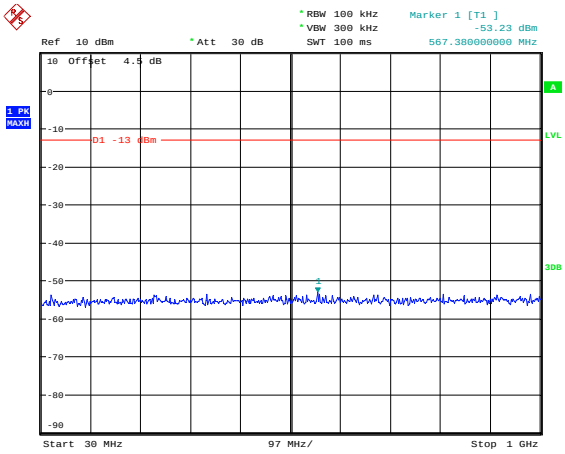


Date: 25.AUG.2021 14:36:51

5M, QPSK, Middle Channel



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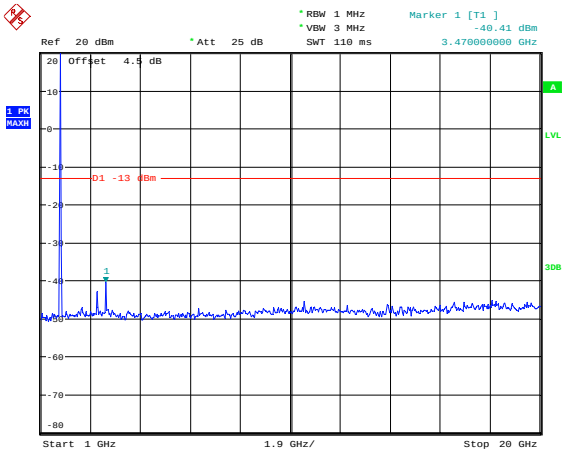

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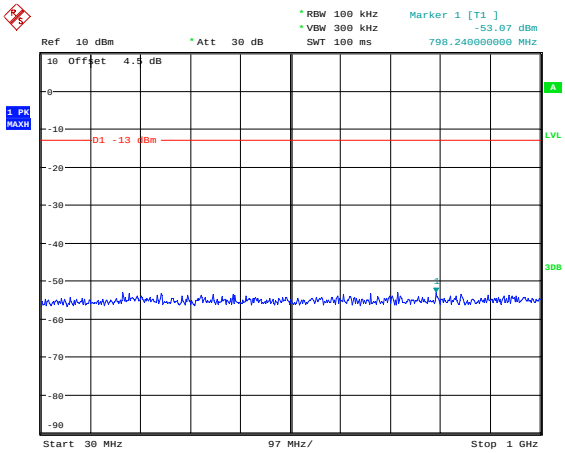
5M, QPSK, High Channel



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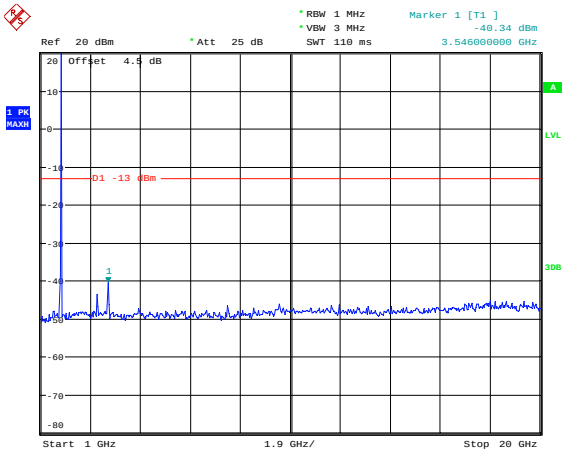
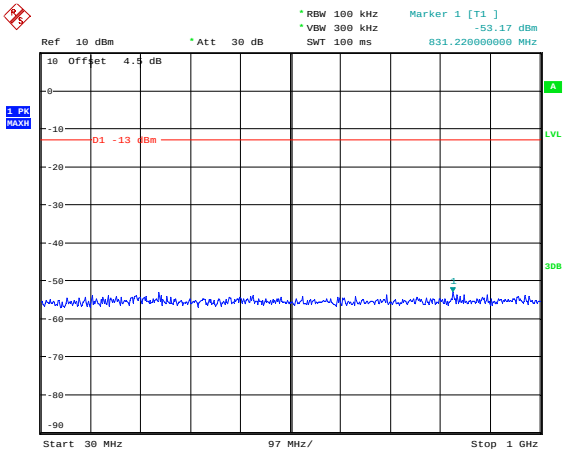
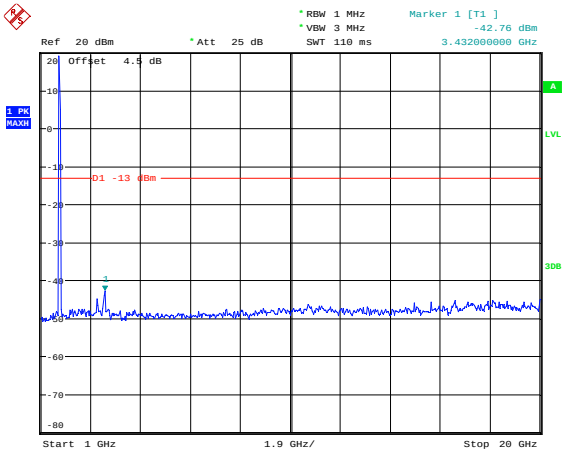


Date: 25.AUG.2021 14:38:00

10M, QPSK, Low Channel

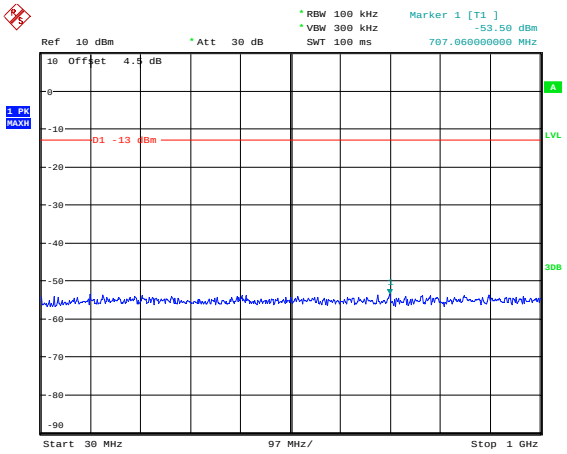


Date: 25.AUG.2021 14:38:20



Date: 25.AUG.2021 14:38:34

10M, QPSK, Middle Channel



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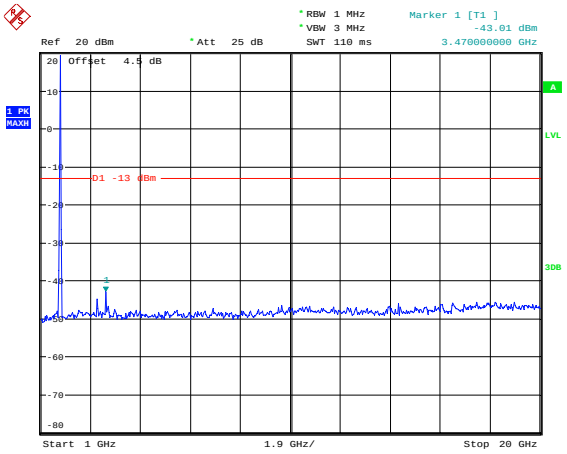

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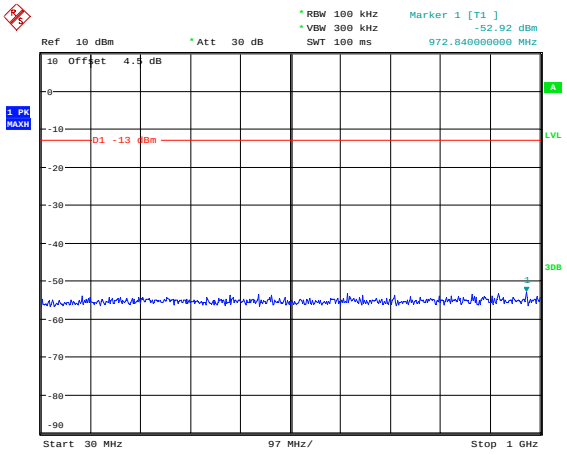
10M, QPSK, High Channel



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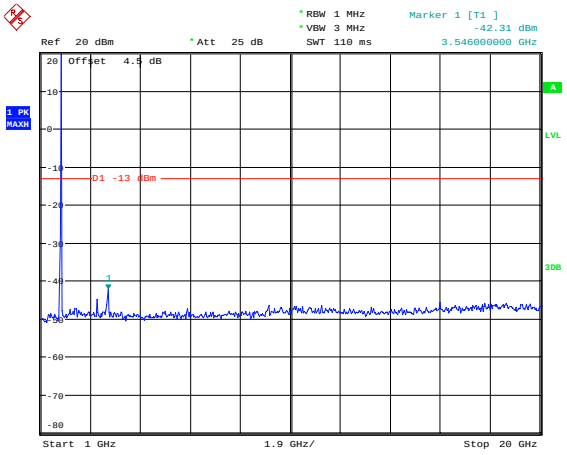

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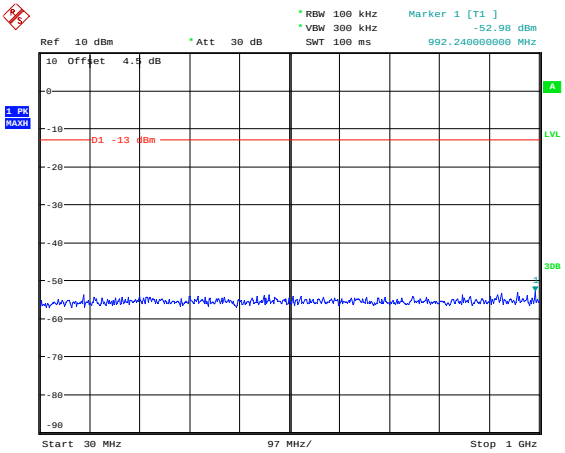
15M, QPSK, Low Channel



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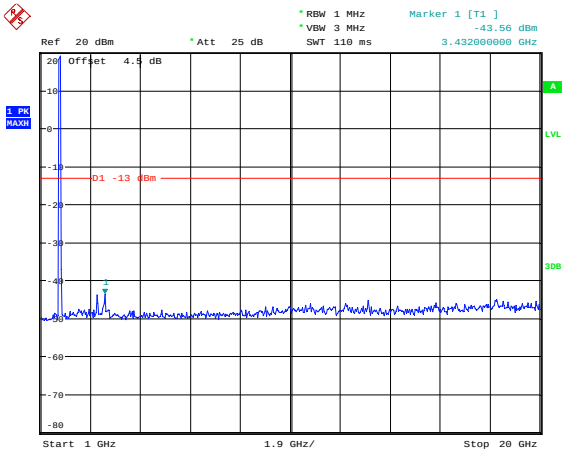
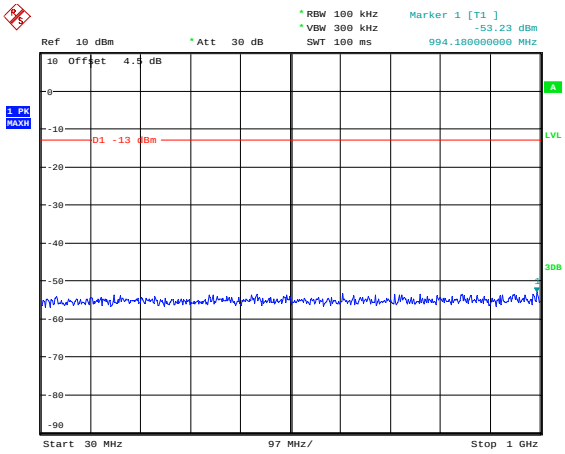


Date: 25.AUG.2021 14:40:22

15M, QPSK, Middle Channel



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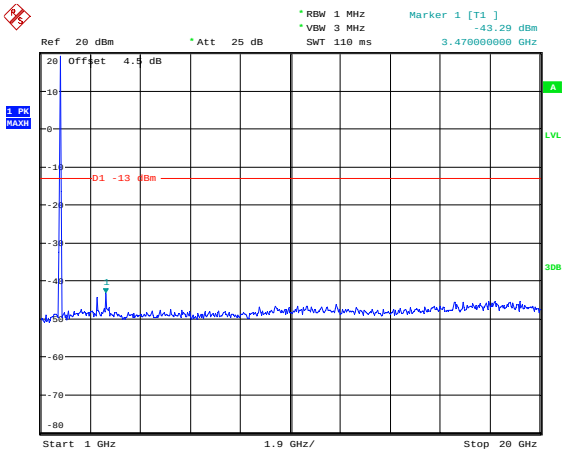
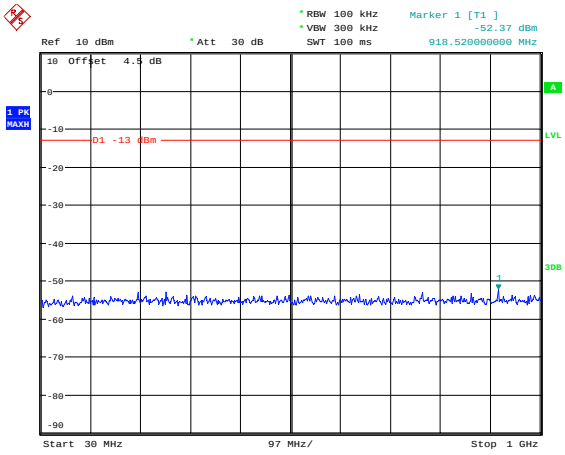
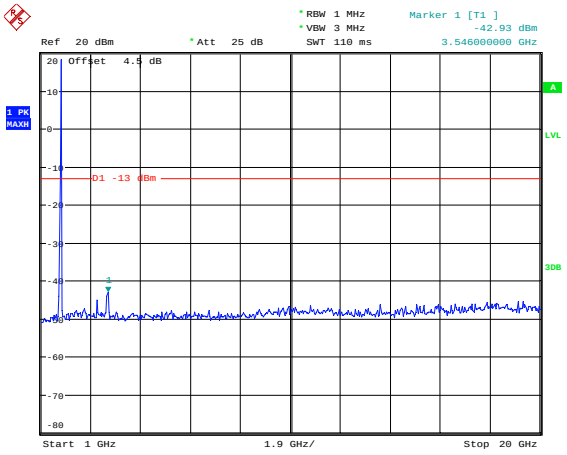


Date: 25.AUG.2021 14:41:00

15M, QPSK, High Channel

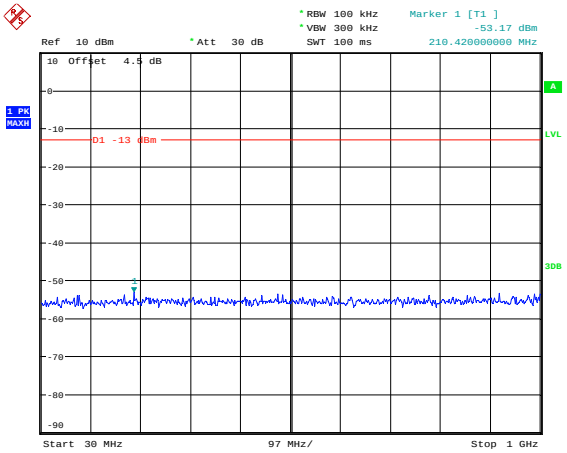


Date: 25.AUG.2021 14:41:24



Date: 25.AUG.2021 14:41:35

20M, QPSK, Low Channel



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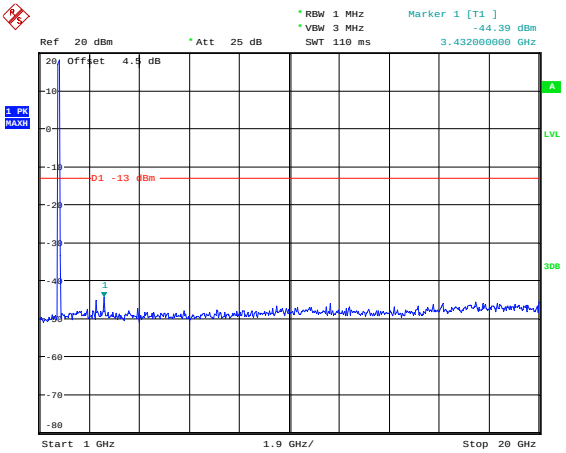

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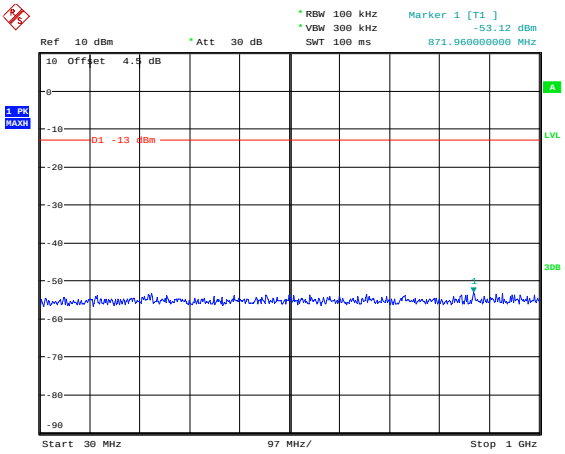
20M, QPSK, Middle Channel



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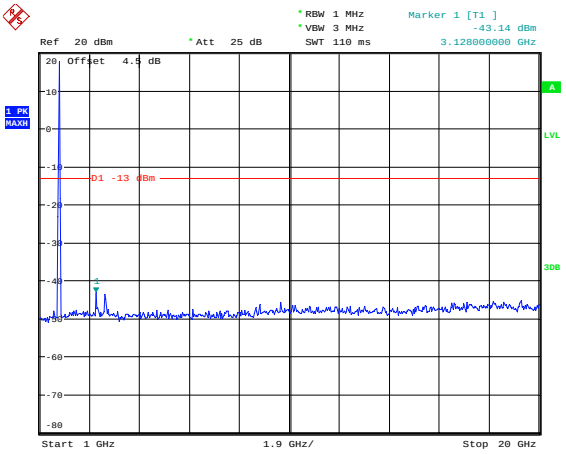
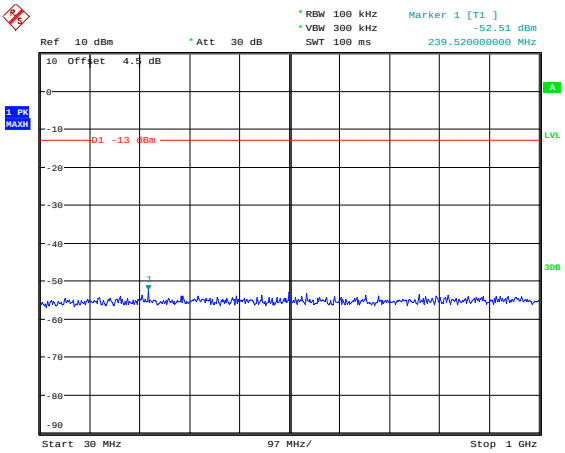
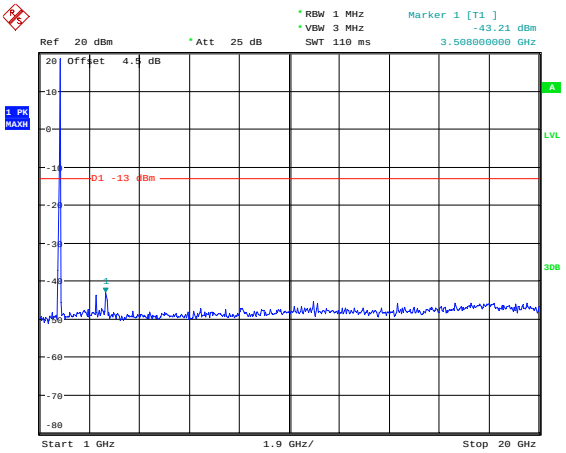


Date: 25.AUG.2021 14:42:46

20M, QPSK, High Channel



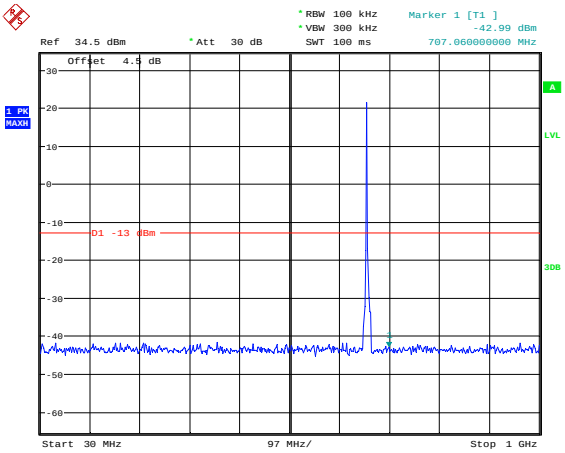
Date: 25.AUG.2021 14:43:10



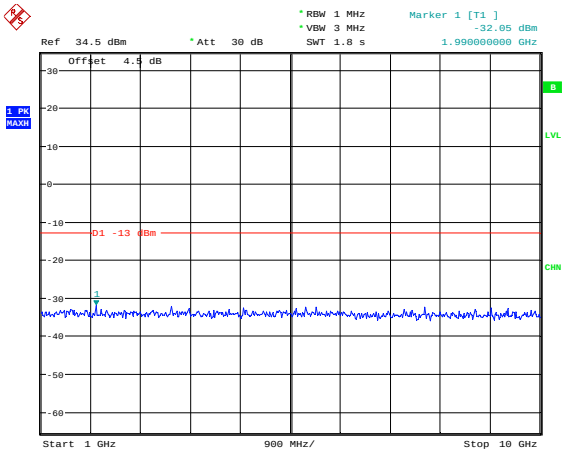
Date: 25.AUG.2021 14:43:24

LTE Band 71:

5M, QPSK, Low Channel

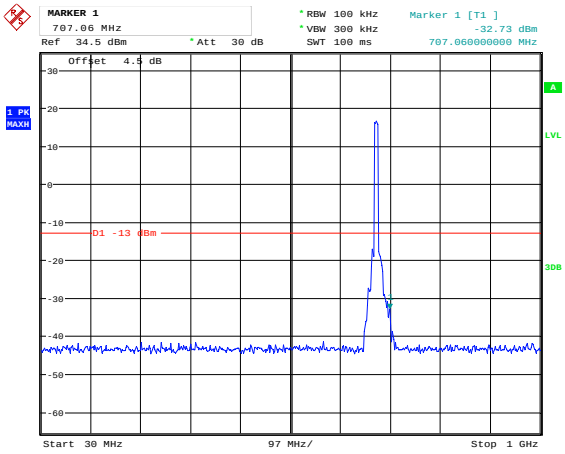


Date: 30.AUG.2021 14:57:00

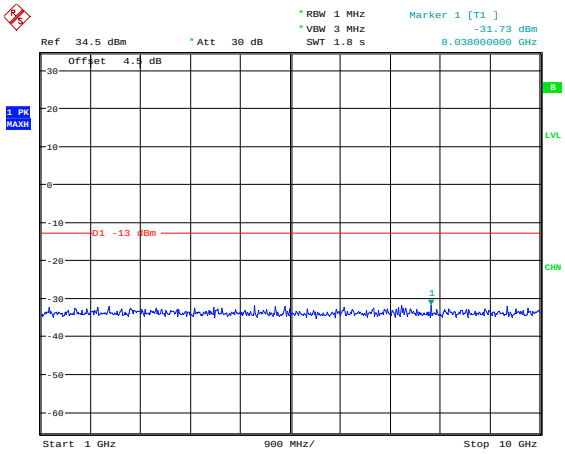


Date: 30.AUG.2021 14:57:22

5M, QPSK, Middle Channel

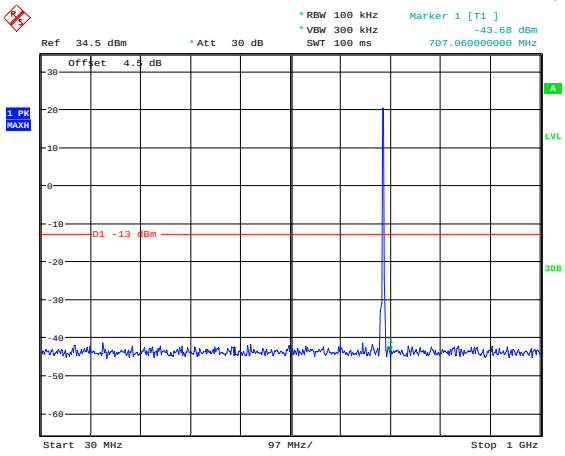


Date: 30.AUG.2021 14:49:53

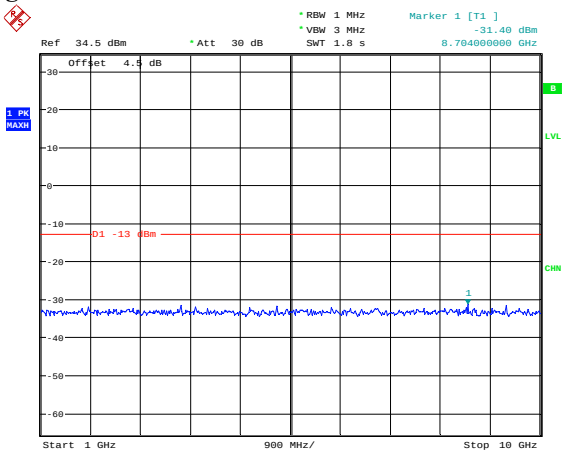


Date: 30.AUG.2021 14:53:33

5M, QPSK, High Channel

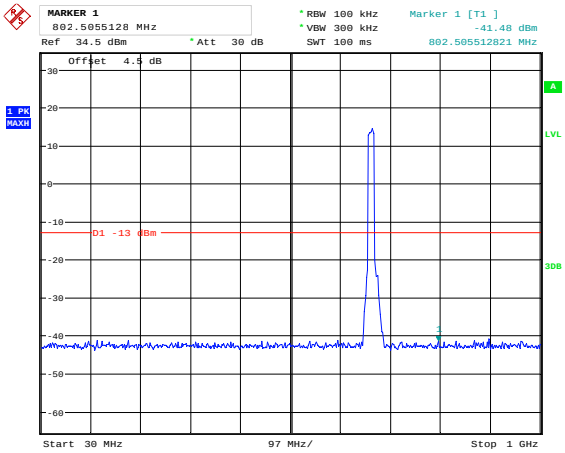


Date: 30.AUG.2021 15:00:24

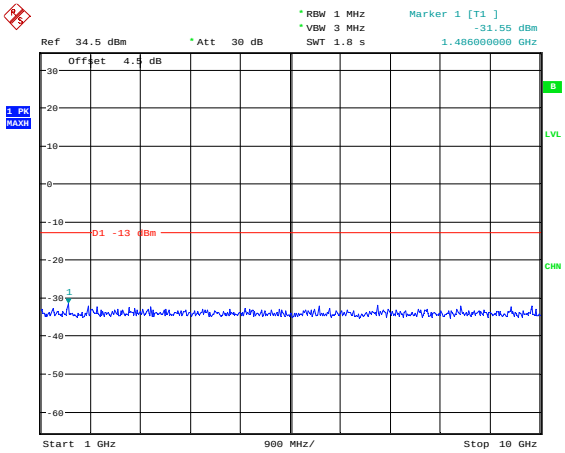


Date: 30.AUG.2021 15:00:52

10M, QPSK, Low Channel

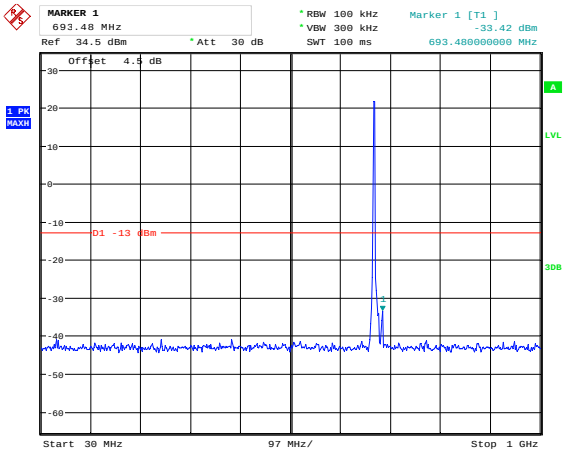


Date: 30.AUG.2021 15:02:50

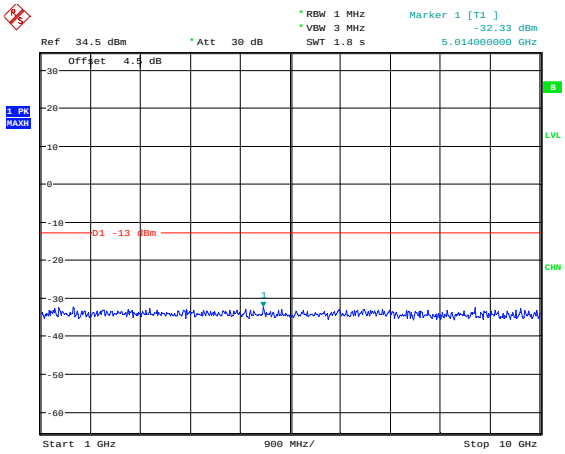


Date: 30.AUG.2021 15:03:20

10M, QPSK, Middle Channel

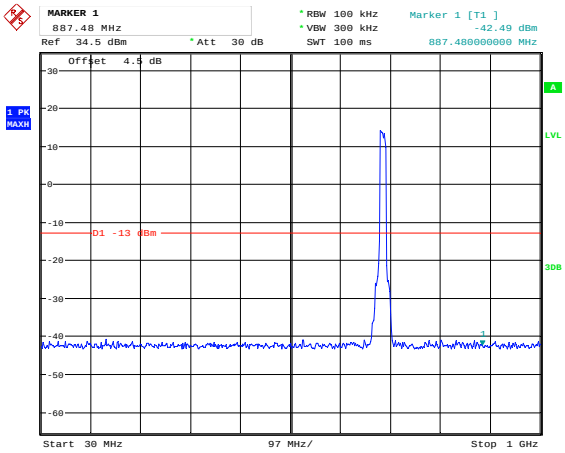


Date: 30.AUG.2021 15:04:34

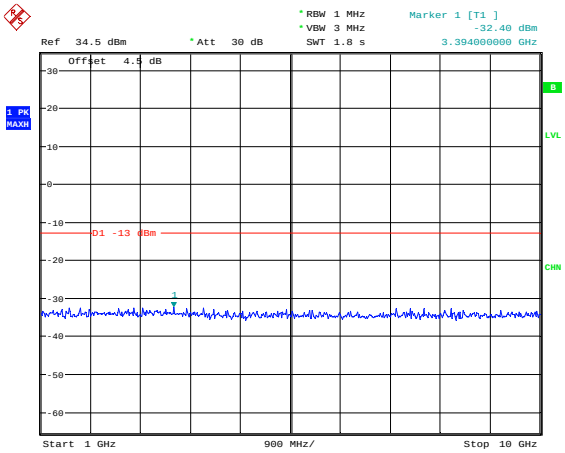


Date: 30.AUG.2021 15:05:01

10M, QPSK, High Channel

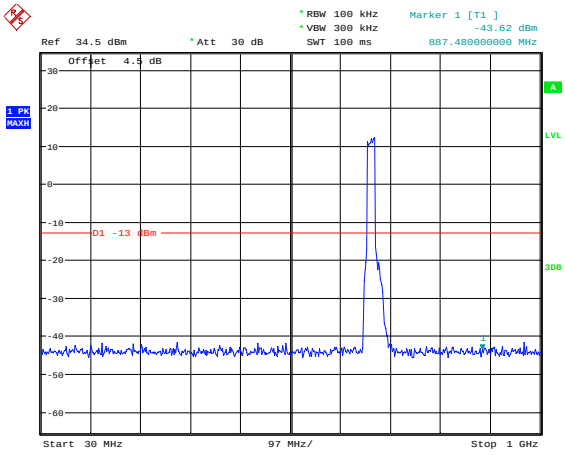


Date: 30.AUG.2021 15:09:11

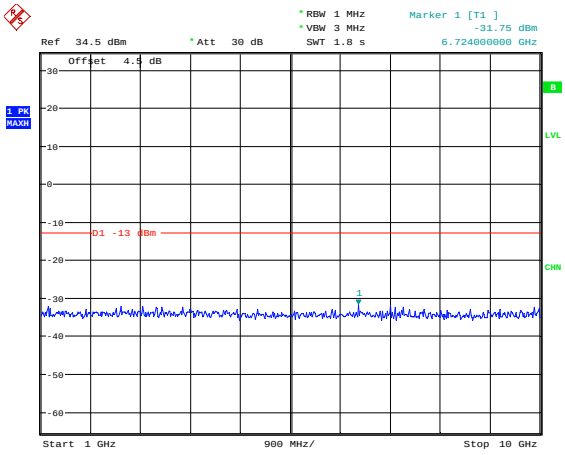


Date: 30.AUG.2021 15:09:35

15M, QPSK, Low Channel

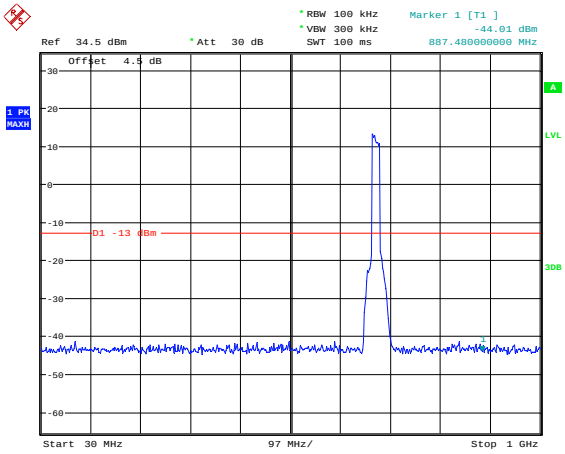


Date: 30.AUG.2021 15:10:46

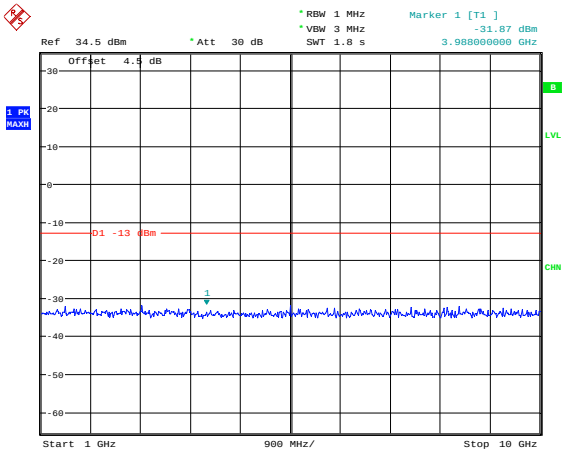


Date: 30.AUG.2021 15:11:12

15M, QPSK, Middle Channel

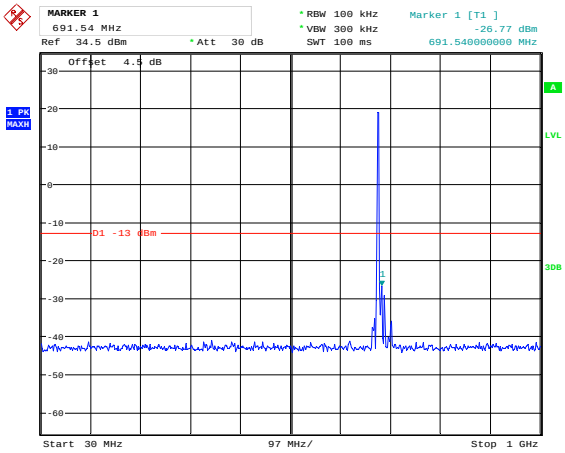


Date: 30.AUG.2021 15:13:46

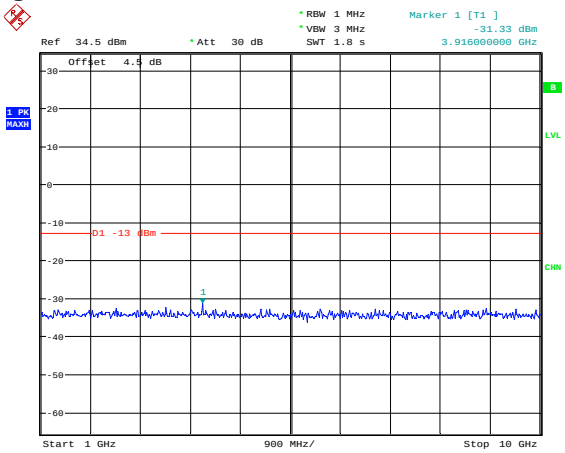


Date: 30.AUG.2021 15:14:19

15M, QPSK, High Channel

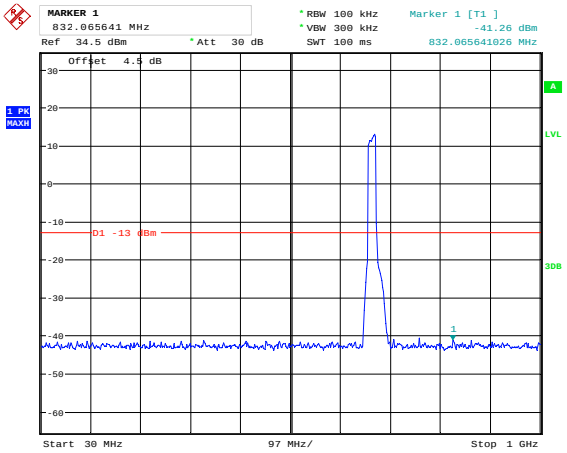


Date: 30.AUG.2021 15:23:40

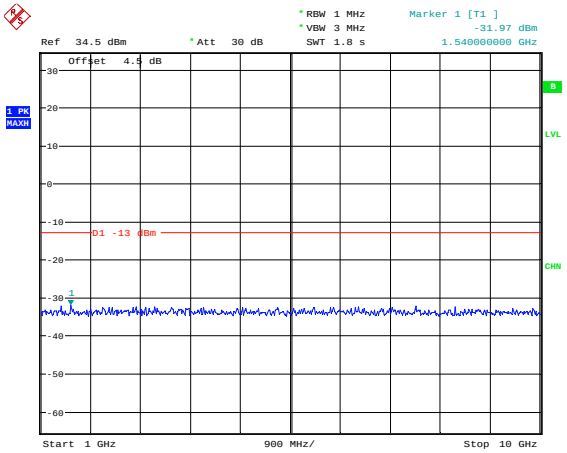


Date: 30.AUG.2021 15:24:19

20M, QPSK, Low Channel

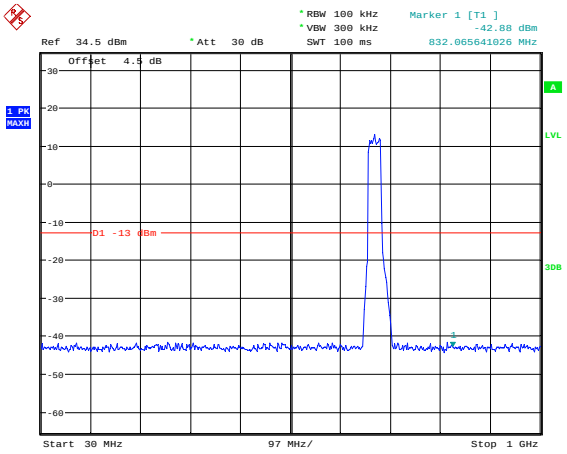


Date: 30.AUG.2021 15:25:55

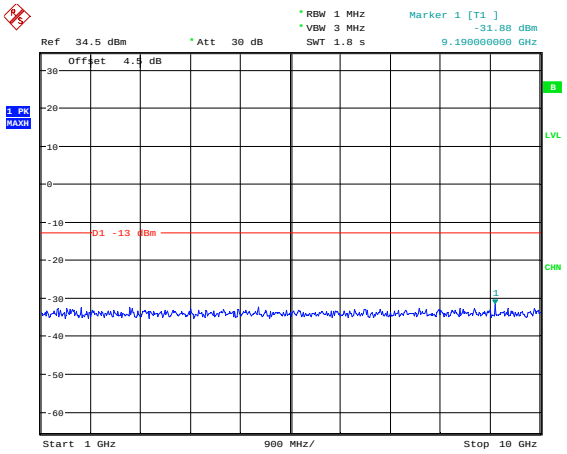


Date: 30.AUG.2021 15:26:36

20M, QPSK, Middle Channel

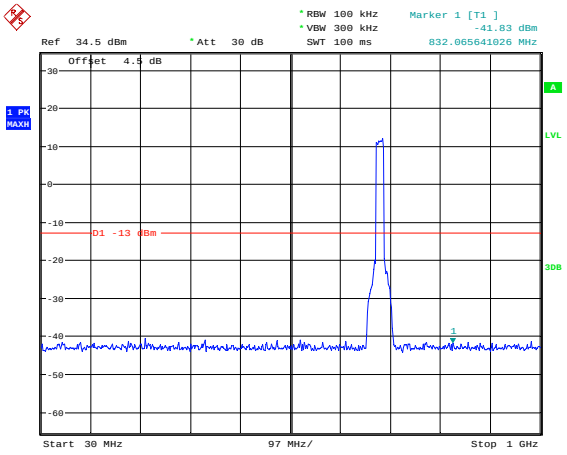


Date: 30.AUG.2021 15:27:26

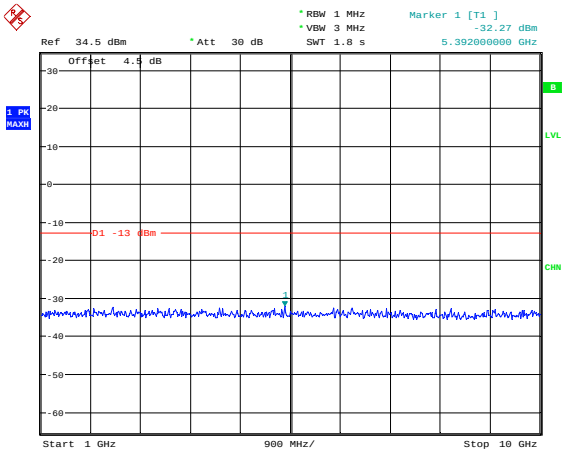


Date: 30.AUG.2021 15:27:53

20M, QPSK, High Channel



Date: 30.AUG.2021 15:28:53



Date: 30.AUG.2021 15:29:21

FCC §2.1053, §22.917 & §24.238 & §27.53& §90.691 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53, §90.691;

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log_{10} (power out in Watts)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-07-19	2022-07-18
Sonoma	Amplifier	310N	372193	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Agilent	Spectrum Analyzer	E4440A	SG43360054	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2021-06-27	2022-06-26
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2021-06-27	2022-06-26
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-02 1304	2020-12-05	2023-12-04
Sinoscite	Band-stop filter	BSF1710-1785MN-0383-003	0383003	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF1850-1910MS-0935V2	0935V2	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF824-862MS-1438-001	1438001	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF2500-2690MS-1438-002	145841	2021-06-16	2022-06-16

**** Statement of Traceability:*** *Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data

Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	28.4 °C	25.1°C
Relative Humidity:	55 %	61 %
ATM Pressure:	100.6 kPa	100.6 kPa
Tester:	Johnson Huang	Jeremy Liang
Test Date:	2021-08-30	2021-08-27

Test Result: Compliance.
EUT Operation Mode: Transmitting

Cellular Band (PART 22H)

30 MHz-10 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	58.46	-45.82	8.68	0.80	-37.94	-13.00	24.94
1648.40	V	60.35	-44.01	8.68	0.80	-36.13	-13.00	23.13
2472.60	H	56.94	-43.78	9.38	1.00	-35.40	-13.00	22.40
2472.60	V	58.51	-42.16	9.38	1.00	-33.78	-13.00	20.78
3296.80	H	44.85	-51.25	10.32	1.15	-42.08	-13.00	29.08
3296.80	V	44.65	-51.21	10.32	1.15	-42.04	-13.00	29.04
377.26	H	48.58	-58.63	0.00	0.36	-58.99	-13.00	45.99
276.38	V	46.19	-61.26	0.00	0.29	-61.55	-13.00	48.55
GSM 850 Frequency:836.6MHz								
1673.20	H	49.65	-54.63	8.71	0.85	-46.77	-13.00	33.77
1673.20	V	56.29	-48.10	8.71	0.85	-40.24	-13.00	27.24
2509.80	H	55.26	-45.32	9.42	1.01	-36.91	-13.00	23.91
2509.80	V	59.68	-40.91	9.42	1.01	-32.50	-13.00	19.50
3346.40	H	44.62	-51.80	10.34	1.16	-42.62	-13.00	29.62
3346.40	V	47.95	-48.34	10.34	1.16	-39.16	-13.00	26.16
376.56	H	50.57	-56.66	0.00	0.36	-57.02	-13.00	44.02
276.18	V	45.19	-62.27	0.00	0.29	-62.56	-13.00	49.56
GSM 850 Frequency:848.8MHz								
1697.60	H	44.52	-59.77	8.74	0.90	-51.93	-13.00	38.93
1697.60	V	46.85	-57.57	8.74	0.90	-49.73	-13.00	36.73
2546.40	H	55.74	-44.53	9.47	1.01	-36.07	-13.00	23.07
2546.40	V	60.89	-39.34	9.47	1.01	-30.88	-13.00	17.88
3395.20	H	42.78	-54.00	10.36	1.19	-44.83	-13.00	31.83
3395.20	V	45.26	-51.49	10.36	1.19	-42.32	-13.00	29.32
376.56	H	51.17	-56.06	0.00	0.36	-56.42	-13.00	43.42
276.18	V	47.19	-60.27	0.00	0.29	-60.56	-13.00	47.56

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	36.97	-67.31	8.68	0.81	-59.44	-13.00	46.44
1652.80	V	35.94	-68.42	8.68	0.81	-60.55	-13.00	47.55
2479.20	H	35.77	-64.94	9.39	1.01	-56.56	-13.00	43.56
2479.20	V	35.54	-65.14	9.39	1.01	-56.76	-13.00	43.76
3305.60	H	35.05	-61.07	10.32	1.15	-51.90	-13.00	38.90
3305.60	V	34.57	-61.32	10.32	1.15	-52.15	-13.00	39.15
214.80	H	60.28	-49.66	0.00	0.21	-49.87	-13.00	36.87
214.80	V	58.92	-48.00	0.00	0.21	-48.21	-13.00	35.21
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	36.19	-68.09	8.71	0.85	-60.23	-13.00	47.23
1673.20	V	36.54	-67.85	8.71	0.85	-59.99	-13.00	46.99
2509.80	H	35.27	-65.31	9.42	1.01	-56.90	-13.00	43.90
2509.80	V	35.94	-64.65	9.42	1.01	-56.24	-13.00	43.24
3346.40	H	34.96	-61.46	10.34	1.16	-52.28	-13.00	39.28
3346.40	V	35.38	-60.91	10.34	1.16	-51.73	-13.00	38.73
214.80	H	60.27	-49.67	0.00	0.21	-49.88	-13.00	36.88
214.80	V	56.52	-50.40	0.00	0.21	-50.61	-13.00	37.61
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	36.67	-67.62	8.73	0.89	-59.78	-13.00	46.78
1693.20	V	37.15	-67.26	8.73	0.89	-59.42	-13.00	46.42
2539.80	H	36.14	-64.19	9.46	1.01	-55.74	-13.00	42.74
2539.80	V	35.84	-64.45	9.46	1.01	-56.00	-13.00	43.00
3386.40	H	35.21	-61.51	10.35	1.18	-52.34	-13.00	39.34
3386.40	V	36.26	-60.41	10.35	1.18	-51.24	-13.00	38.24
214.80	H	63.51	-46.43	0.00	0.21	-46.64	-13.00	33.64
214.80	V	57.42	-49.50	0.00	0.21	-49.71	-13.00	36.71

PCS Band (PART 24E)

30 MHz-20 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	58.79	-37.70	10.60	1.25	-28.35	-13.00	15.35
3700.40	V	57.48	-38.99	10.60	1.25	-29.64	-13.00	16.64
5550.60	H	45.34	-47.70	11.44	1.49	-37.75	-13.00	24.75
5550.60	V	48.24	-44.63	11.44	1.49	-34.68	-13.00	21.68
278.56	H	53.99	-54.93	0.00	0.29	-55.22	-13.00	42.22
278.49	V	50.58	-56.83	0.00	0.29	-57.12	-13.00	44.12
GSM 1900 Frequency:1880MHz								
3760.00	H	58.79	-36.87	10.66	1.24	-27.45	-13.00	14.45
3760.00	V	56.94	-38.60	10.66	1.24	-29.18	-13.00	16.18
5640.00	H	45.62	-47.65	11.33	1.54	-37.86	-13.00	24.86
5640.00	V	45.96	-47.19	11.33	1.54	-37.40	-13.00	24.40
844.90	H	37.17	-60.80	0.00	0.98	-61.78	-13.00	48.78
844.90	V	38.06	-62.89	0.00	0.98	-63.87	-13.00	50.87
278.57	H	52.69	-56.23	0.00	0.29	-56.52	-13.00	43.52
278.46	V	51.78	-55.63	0.00	0.29	-55.92	-13.00	42.92
GSM 1900 Frequency:1909.8MHz								
3819.60	H	55.04	-40.16	10.72	1.29	-30.73	-13.00	17.73
3819.60	V	50.69	-44.36	10.72	1.29	-34.93	-13.00	21.93
5729.40	H	44.26	-49.24	11.22	1.59	-39.61	-13.00	26.61
5729.40	V	44.65	-48.72	11.22	1.59	-39.09	-13.00	26.09
844.90	H	37.28	-60.69	0.00	0.98	-61.67	-13.00	48.67
844.90	V	38.11	-62.84	0.00	0.98	-63.82	-13.00	50.82
278.59	H	56.66	-52.26	0.00	0.29	-52.55	-13.00	39.55
278.49	V	52.77	-54.64	0.00	0.29	-54.93	-13.00	41.93

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	35.66	-60.77	10.60	1.25	-51.42	-13.00	38.42
3704.80	V	36.79	-59.62	10.60	1.25	-50.27	-13.00	37.27
5557.20	H	34.75	-58.30	11.43	1.49	-48.36	-13.00	35.36
5557.20	V	35.62	-57.27	11.43	1.49	-47.33	-13.00	34.33
857.50	H	35.41	-62.37	0.00	1.00	-63.37	-13.00	50.37
825.20	V	35.16	-66.43	0.00	0.96	-67.39	-13.00	54.39
125.96	H	52.72	-57.02	0.00	0.22	-57.24	-13.00	44.24
100.79	V	50.48	-57.03	0.00	0.10	-57.13	-13.00	44.13
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	35.84	-59.82	10.66	1.24	-50.40	-13.00	37.40
3760.00	V	36.35	-59.19	10.66	1.24	-49.77	-13.00	36.77
5640.00	H	34.85	-58.42	11.33	1.54	-48.63	-13.00	35.63
5640.00	V	35.55	-57.60	11.33	1.54	-47.81	-13.00	34.81
860.30	H	36.95	-60.79	0.00	1.00	-61.79	-13.00	48.79
729.80	V	36.47	-66.99	0.00	0.94	-67.93	-13.00	54.93
125.96	H	53.37	-56.37	0.00	0.22	-56.59	-13.00	43.59
100.79	V	50.16	-57.35	0.00	0.10	-57.45	-13.00	44.45
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	35.24	-59.93	10.72	1.29	-50.50	-13.00	37.50
3815.20	V	35.72	-59.30	10.72	1.29	-49.87	-13.00	36.87
5722.80	H	35.62	-57.87	11.23	1.58	-48.22	-13.00	35.22
5722.80	V	35.26	-58.10	11.23	1.58	-48.45	-13.00	35.45
816.80	H	35.72	-62.68	0.00	0.95	-63.63	-13.00	50.63
843.50	V	35.23	-65.76	0.00	0.98	-66.74	-13.00	53.74
125.96	H	53.19	-56.55	0.00	0.22	-56.77	-13.00	43.77
100.79	V	50.29	-57.22	0.00	0.10	-57.32	-13.00	44.32

AWS Band, Part 27

30 MHz-20 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1712.4 MHz								
3424.80	H	35.24	-61.58	10.37	1.17	-52.38	-13.00	39.38
3424.80	V	36.28	-60.51	10.37	1.17	-51.31	-13.00	38.31
5137.20	H	34.62	-58.98	11.28	1.46	-49.16	-13.00	36.16
5137.20	V	35.95	-57.54	11.28	1.46	-47.72	-13.00	34.72
198.78	H	62.17	-48.11	0.00	0.18	-48.29	-13.00	35.29
198.78	V	55.61	-50.99	0.00	0.18	-51.17	-13.00	38.17
WCDMA Band IV, Frequency:1732.6 MHz								
3465.20	H	35.82	-61.01	10.39	1.15	-51.77	-13.00	38.77
3465.20	V	35.74	-61.04	10.39	1.15	-51.80	-13.00	38.80
5197.80	H	34.92	-59.01	11.32	1.44	-49.13	-13.00	36.13
5197.80	V	34.28	-59.50	11.32	1.44	-49.62	-13.00	36.62
198.78	H	61.89	-48.39	0.00	0.18	-48.57	-13.00	35.57
198.78	V	55.24	-51.36	0.00	0.18	-51.54	-13.00	38.54
WCDMA Band IV, Frequency:1752.6MHz								
3505.20	H	36.07	-60.74	10.41	1.18	-51.51	-13.00	38.51
3505.20	V	35.99	-60.76	10.41	1.18	-51.53	-13.00	38.53
5257.80	H	35.17	-58.57	11.35	1.47	-48.69	-13.00	35.69
5257.80	V	34.53	-58.99	11.35	1.47	-49.11	-13.00	36.11
198.78	H	62.28	-48.00	0.00	0.18	-48.18	-13.00	35.18
198.78	V	55.36	-51.24	0.00	0.18	-51.42	-13.00	38.42

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
3701.40	H	36.65	-59.83	10.60	1.25	-50.48	-13.00	37.48
3701.40	V	35.71	-60.75	10.60	1.25	-51.40	-13.00	38.40
5552.10	H	35.42	-57.62	11.44	1.49	-47.67	-13.00	34.67
5552.10	V	35.21	-57.67	11.44	1.49	-47.72	-13.00	34.72
253.10	H	48.59	-60.65	0.00	0.27	-60.92	-13.00	47.92
49.40	V	48.29	-46.52	-15.49	0.19	-62.20	-13.00	49.20
QPSK,Frequency:1880 MHz								
3760.00	H	35.86	-59.80	10.66	1.24	-50.38	-13.00	37.38
3760.00	V	35.04	-60.50	10.66	1.24	-51.08	-13.00	38.08
5640.00	H	35.50	-57.77	11.33	1.54	-47.98	-13.00	34.98
5640.00	V	34.46	-58.69	11.33	1.54	-48.90	-13.00	35.90
253.10	H	19.02	-90.22	0.00	0.27	-90.49	-13.00	77.49
49.40	V	46.52	-48.29	-15.49	0.19	-63.97	-13.00	50.97
QPSK,Frequency:1909.3 MHz								
3818.60	H	36.38	-58.81	10.72	1.29	-49.38	-13.00	36.38
3818.60	V	36.34	-58.70	10.72	1.29	-49.27	-13.00	36.27
5727.90	H	35.06	-58.44	11.23	1.59	-48.80	-13.00	35.80
5727.90	V	35.34	-58.03	11.23	1.59	-48.39	-13.00	35.39
253.10	H	47.99	-61.25	0.00	0.27	-61.52	-13.00	48.52
49.40	V	46.88	-47.93	-15.49	0.19	-63.61	-13.00	50.61

LTE Band 4 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1710.7 MHz								
3421.40	H	35.87	-60.95	10.37	1.17	-51.75	-13.00	38.75
3421.40	V	35.91	-60.88	10.37	1.17	-51.68	-13.00	38.68
5132.10	H	34.13	-59.44	11.28	1.47	-49.63	-13.00	36.63
5132.10	V	34.46	-59.00	11.28	1.47	-49.19	-13.00	36.19
253.10	H	49.33	-59.91	0.00	0.27	-60.18	-13.00	47.18
49.40	V	46.26	-48.55	-15.49	0.19	-64.23	-13.00	51.23
QPSK,Frequency:1732.5 MHz								
3465.00	H	35.54	-61.29	10.39	1.15	-52.05	-13.00	39.05
3465.00	V	35.76	-61.02	10.39	1.15	-51.78	-13.00	38.78
5197.50	H	34.46	-59.47	11.32	1.44	-49.59	-13.00	36.59
5197.50	V	35.15	-58.63	11.32	1.44	-48.75	-13.00	35.75
253.10	H	48.32	-60.92	0.00	0.27	-61.19	-13.00	48.19
49.40	V	47.16	-47.65	-15.49	0.19	-63.33	-13.00	50.33
QPSK,Frequency:1754.3 MHz								
3508.60	H	34.74	-62.06	10.41	1.19	-52.84	-13.00	39.84
3508.60	V	34.31	-62.42	10.41	1.19	-53.20	-13.00	40.20
5262.90	H	42.17	-51.56	11.36	1.47	-41.67	-13.00	28.67
5262.90	V	47.84	-45.66	11.36	1.47	-35.77	-13.00	22.77
253.10	H	48.64	-60.60	0.00	0.27	-60.87	-13.00	47.87
49.40	V	47.43	-47.38	-15.49	0.19	-63.06	-13.00	50.06

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	37.50	-66.78	8.68	0.80	-58.90	-13.00	45.90
1649.40	V	39.36	-65.00	8.68	0.80	-57.12	-13.00	44.12
2474.10	H	39.49	-61.23	9.38	1.00	-52.85	-13.00	39.85
2474.10	V	46.90	-53.77	9.38	1.00	-45.39	-13.00	32.39
3298.80	H	36.16	-59.93	10.32	1.15	-50.76	-13.00	37.76
3298.80	V	36.73	-59.12	10.32	1.15	-49.95	-13.00	36.95
99.84	H	48.84	-62.71	0.00	0.10	-62.81	-13.00	49.81
99.84	V	47.96	-59.68	0.00	0.10	-59.78	-13.00	46.78
QPSK, Frequency: 836.5 MHz								
1673.00	H	36.91	-67.37	8.71	0.85	-59.51	-13.00	46.51
1673.00	V	39.23	-65.16	8.71	0.85	-57.30	-13.00	44.30
2509.50	H	41.23	-59.35	9.42	1.01	-50.94	-13.00	37.94
2509.50	V	44.41	-56.19	9.42	1.01	-47.78	-13.00	34.78
3346.00	H	37.18	-59.24	10.34	1.16	-50.06	-13.00	37.06
3346.00	V	36.64	-59.64	10.34	1.16	-50.46	-13.00	37.46
99.84	H	49.51	-62.04	0.00	0.10	-62.14	-13.00	49.14
49.40	V	46.96	-47.85	-15.49	0.19	-63.53	-13.00	50.53
QPSK, Frequency: 848.3 MHz								
1696.60	H	36.94	-67.35	8.74	0.89	-59.50	-13.00	46.50
1696.60	V	36.34	-68.08	8.74	0.89	-60.23	-13.00	47.23
2544.90	H	41.42	-58.87	9.47	1.01	-50.41	-13.00	37.41
2544.90	V	45.36	-54.88	9.47	1.01	-46.42	-13.00	33.42
3393.20	H	39.10	-57.67	10.36	1.19	-48.50	-13.00	35.50
3393.20	V	38.57	-58.16	10.36	1.19	-48.99	-13.00	35.99
99.84	H	49.23	-62.32	0.00	0.10	-62.42	-13.00	49.42
47.40	V	46.64	-47.03	-17.45	0.19	-64.67	-13.00	51.67

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
1399.40	H	37.51	-66.00	8.22	0.71	-58.49	-13.00	45.49
1399.40	V	38.93	-64.63	8.22	0.71	-57.12	-13.00	44.12
2099.10	H	36.52	-65.30	9.16	0.91	-57.05	-13.00	44.05
2099.10	V	37.00	-64.77	9.16	0.91	-56.52	-13.00	43.52
2798.80	H	37.90	-61.96	9.88	1.04	-53.12	-13.00	40.12
2798.80	V	38.93	-60.80	9.88	1.04	-51.96	-13.00	38.96
99.84	H	49.55	-62.00	0.00	0.10	-62.10	-13.00	49.10
670.20	V	50.14	-48.13	0.00	0.37	-48.50	-13.00	35.50
QPSK, Frequency:707.5 MHz								
1415.00	H	37.89	-65.64	8.26	0.72	-58.10	-13.00	45.10
1415.00	V	41.12	-62.46	8.26	0.72	-54.92	-13.00	41.92
2122.50	H	37.47	-64.45	9.17	0.92	-56.20	-13.00	43.20
2122.50	V	36.89	-65.01	9.17	0.92	-56.76	-13.00	43.76
2830.00	H	38.24	-61.47	9.93	1.06	-52.60	-13.00	39.60
2830.00	V	40.36	-59.29	9.93	1.06	-50.42	-13.00	37.42
49.40	H	46.87	-49.54	-15.49	0.19	-65.22	-13.00	52.22
670.20	V	48.30	-49.97	0.00	0.37	-50.34	-13.00	37.34
QPSK, Frequency: 715.3 MHz								
1430.60	H	38.39	-65.15	8.31	0.73	-57.57	-13.00	44.57
1430.60	V	42.08	-61.52	8.31	0.73	-53.94	-13.00	40.94
2145.90	H	36.31	-65.71	9.19	0.93	-57.45	-13.00	44.45
2145.90	V	36.89	-65.15	9.19	0.93	-56.89	-13.00	43.89
2861.20	H	38.43	-61.13	9.98	1.07	-52.22	-13.00	39.22
2861.20	V	40.34	-59.23	9.98	1.07	-50.32	-13.00	37.32
3576.00	H	46.39	-50.17	10.48	1.23	-40.92	-13.00	27.92
3576.00	V	47.79	-48.65	10.48	1.23	-39.40	-13.00	26.40
49.51	H	48.25	-48.29	-15.38	0.19	-63.86	-13.00	50.86
677.96	V	49.68	-48.40	0.00	0.38	-48.78	-13.00	35.78

LTE Band 13(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 779.5 MHz								
1559.00	H	38.63	-65.36	8.57	0.80	-57.59	-40.00	17.59
1559.00	V	44.29	-59.76	8.57	0.80	-51.99	-40.00	11.99
2338.50	H	35.78	-65.73	9.30	0.97	-57.40	-13.00	44.40
2338.50	V	35.51	-65.77	9.30	0.97	-57.44	-13.00	44.44
3118.00	H	36.68	-60.29	10.25	1.13	-51.17	-13.00	38.17
3118.00	V	35.53	-61.30	10.25	1.13	-52.18	-13.00	39.18
251.16	H	49.99	-59.28	0.00	0.27	-59.55	-13.00	46.55
383.08	V	46.24	-58.37	0.00	0.37	-58.74	-13.00	45.74
QPSK, Frequency:782 MHz								
1564.00	H	37.10	-66.92	8.58	0.80	-59.14	-40.00	19.14
1564.00	V	40.96	-63.12	8.58	0.80	-55.34	-40.00	15.34
2346.00	H	35.94	-65.50	9.31	0.97	-57.16	-13.00	44.16
2346.00	V	35.87	-65.33	9.31	0.97	-56.99	-13.00	43.99
3128.00	H	35.76	-61.18	10.25	1.13	-52.06	-13.00	39.06
3128.00	V	35.49	-61.29	10.25	1.13	-52.17	-13.00	39.17
253.10	H	52.11	-57.13	0.00	0.27	-57.40	-13.00	44.40
811.82	V	47.45	-47.66	0.00	0.49	-48.15	-13.00	35.15
QPSK, Frequency:784.5 MHz								
1569.00	H	38.21	-65.85	8.58	0.81	-58.08	-40.00	18.08
1569.00	V	40.03	-64.08	8.58	0.81	-56.31	-40.00	16.31
2353.50	H	35.87	-65.49	9.31	0.97	-57.15	-13.00	44.15
2353.50	V	35.73	-65.39	9.31	0.97	-57.05	-13.00	44.05
3138.00	H	34.88	-62.02	10.26	1.14	-52.90	-13.00	39.90
3138.00	V	35.03	-61.71	10.26	1.14	-52.59	-13.00	39.59
251.10	H	51.76	-57.51	0.00	0.27	-57.78	-13.00	44.78
811.12	V	48.99	-46.15	0.00	0.49	-46.64	-13.00	33.64

LTE Band 25 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
3701.40	H	35.80	-60.68	10.60	1.25	-51.33	-13.00	38.33
3701.40	V	35.54	-60.92	10.60	1.25	-51.57	-13.00	38.57
5552.10	H	35.32	-57.72	11.44	1.49	-47.77	-13.00	34.77
5552.10	V	34.84	-58.04	11.44	1.49	-48.09	-13.00	35.09
7402.80	H	33.08	-56.53	10.96	2.06	-47.63	-13.00	34.63
7402.80	V	33.76	-56.61	10.96	2.06	-47.71	-13.00	34.71
253.10	H	50.62	-58.62	0.00	0.27	-58.89	-13.00	45.89
99.84	V	47.84	-59.80	0.00	0.10	-59.90	-13.00	46.90
QPSK,Frequency:1882.5 MHz								
3765.00	H	35.76	-59.83	10.67	1.25	-50.41	-13.00	37.41
3765.00	V	35.64	-59.83	10.67	1.25	-50.41	-13.00	37.41
5647.50	H	35.81	-57.49	11.32	1.55	-47.72	-13.00	34.72
5647.50	V	34.58	-58.59	11.32	1.55	-48.82	-13.00	35.82
7530.00	H	34.34	-55.96	10.89	1.96	-47.03	-13.00	34.03
7530.00	V	33.34	-57.51	10.89	1.96	-48.58	-13.00	35.58
253.10	H	51.01	-58.23	0.00	0.27	-58.50	-13.00	45.50
49.40	V	48.27	-46.54	-15.49	0.19	-62.22	-13.00	49.22
QPSK,Frequency:1914.3 MHz								
3828.60	H	35.34	-59.90	10.73	1.28	-50.45	-13.00	37.45
3828.60	V	35.18	-59.93	10.73	1.28	-50.48	-13.00	37.48
5742.90	H	35.67	-57.85	11.21	1.60	-48.24	-13.00	35.24
5742.90	V	34.29	-59.10	11.21	1.60	-49.49	-13.00	36.49
7657.20	H	34.84	-55.23	10.87	2.06	-46.42	-13.00	33.42
7657.20	V	33.46	-57.30	10.87	2.06	-48.49	-13.00	35.49
253.10	H	51.63	-57.61	0.00	0.27	-57.88	-13.00	44.88
98.62	V	48.21	-59.37	0.00	0.11	-59.48	-13.00	46.48

LTE Band 26(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 814.7 MHz								
1629.40	H	36.90	-67.38	8.66	0.81	-59.53	-13.00	46.53
1629.40	V	39.44	-64.90	8.66	0.81	-57.05	-13.00	44.05
2444.10	H	38.22	-62.57	9.37	1.00	-54.20	-13.00	41.20
2444.10	V	37.93	-62.73	9.37	1.00	-54.36	-13.00	41.36
3258.80	H	35.46	-60.88	10.30	1.17	-51.75	-13.00	38.75
3258.80	V	36.37	-59.72	10.30	1.17	-50.59	-13.00	37.59
239.52	H	45.70	-63.78	0.00	0.25	-64.03	-13.00	51.03
49.40	V	46.97	-47.84	-15.49	0.19	-63.52	-13.00	50.52
QPSK, Frequency: 831.5 MHz								
1663.00	H	37.35	-66.93	8.70	0.83	-59.06	-13.00	46.06
1663.00	V	40.88	-63.50	8.70	0.83	-55.63	-13.00	42.63
2494.50	H	39.59	-61.08	9.40	1.01	-52.69	-13.00	39.69
2494.50	V	40.46	-60.23	9.40	1.01	-51.84	-13.00	38.84
3326.00	H	35.08	-61.19	10.33	1.16	-52.02	-13.00	39.02
3326.00	V	36.33	-59.76	10.33	1.16	-50.59	-13.00	37.59
239.52	H	47.50	-61.98	0.00	0.25	-62.23	-13.00	49.23
49.40	V	48.51	-46.30	-15.49	0.19	-61.98	-13.00	48.98
QPSK, Frequency: 848.3 MHz								
1696.60	H	37.25	-67.04	8.74	0.89	-59.19	-13.00	46.19
1696.60	V	40.45	-63.97	8.74	0.89	-56.12	-13.00	43.12
2544.90	H	38.80	-61.49	9.47	1.01	-53.03	-13.00	40.03
2544.90	V	41.48	-58.76	9.47	1.01	-50.30	-13.00	37.30
3393.20	H	37.75	-59.02	10.36	1.19	-49.85	-13.00	36.85
3393.20	V	40.00	-56.73	10.36	1.19	-47.56	-13.00	34.56
239.52	H	47.19	-62.29	0.00	0.25	-62.54	-13.00	49.54
49.40	V	48.77	-46.04	-15.49	0.19	-61.72	-13.00	48.72

LTE Band 41(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2557.5 MHz								
5115.00	H	42.94	-50.54	11.27	1.51	-40.78	-25.00	15.78
5115.00	V	40.16	-53.22	11.27	1.51	-43.46	-25.00	18.46
7672.50	H	39.88	-50.19	10.87	2.03	-41.35	-25.00	16.35
7672.50	V	40.31	-50.45	10.87	2.03	-41.61	-25.00	16.61
235.79	H	46.30	-63.25	0.00	0.24	-63.49	-25.00	38.49
87.60	V	47.83	-58.83	0.00	0.19	-59.02	-25.00	34.02
QPSK, Frequency:2605 MHz								
5210.00	H	52.08	-41.83	11.33	1.45	-31.95	-25.00	6.95
5210.00	V	48.45	-45.29	11.33	1.45	-35.41	-25.00	10.41
7815.00	H	38.33	-51.48	10.84	1.99	-42.63	-25.00	17.63
7815.00	V	37.84	-52.36	10.84	1.99	-43.51	-25.00	18.51
200.72	H	45.62	-64.59	0.00	0.18	-64.77	-25.00	39.77
99.84	V	46.66	-60.98	0.00	0.10	-61.08	-25.00	36.08
QPSK, Frequency: 2652.5 MHz								
5305.00	H	41.54	-52.06	11.38	1.46	-42.14	-25.00	17.14
5305.00	V	41.50	-51.85	11.38	1.46	-41.93	-25.00	16.93
7957.50	H	35.55	-53.31	10.81	2.09	-44.59	-25.00	19.59
7957.50	V	36.88	-52.43	10.81	2.09	-43.71	-25.00	18.71
198.63	H	46.76	-63.53	0.00	0.18	-63.71	-25.00	38.71
99.84	V	47.51	-60.13	0.00	0.10	-60.23	-25.00	35.23

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	35.64	-61.18	10.37	1.17	-51.98	-13.00	38.98
3421.40	V	35.65	-61.14	10.37	1.17	-51.94	-13.00	38.94
5132.10	H	34.42	-59.15	11.28	1.47	-49.34	-13.00	36.34
5132.10	V	34.93	-58.53	11.28	1.47	-48.72	-13.00	35.72
400.54	H	46.96	-59.82	0.00	0.38	-60.20	-13.00	47.2
49.40	V	48.85	-45.96	-15.49	0.19	-61.64	-13.00	48.64
QPSK, Frequency:1745 MHz								
3490.00	H	35.74	-61.09	10.40	1.17	-51.86	-13.00	38.86
3490.00	V	36.24	-60.53	10.40	1.17	-51.30	-13.00	38.3
5235.00	H	35.33	-58.49	11.34	1.46	-48.61	-13.00	35.61
5235.00	V	36.08	-57.55	11.34	1.46	-47.67	-13.00	34.67
200.72	H	48.41	-61.80	0.00	0.18	-61.98	-13.00	48.98
47.59	V	47.38	-46.40	-17.26	0.19	-63.85	-13.00	50.85
QPSK, Frequency: 1779.3 MHz								
3558.60	H	35.38	-61.24	10.46	1.22	-52.00	-13.00	39
3558.60	V	36.35	-60.17	10.46	1.22	-50.93	-13.00	37.93
5337.90	H	34.76	-58.85	11.40	1.47	-48.92	-13.00	35.92
5337.90	V	35.59	-57.88	11.40	1.47	-47.95	-13.00	34.95
200.72	H	48.17	-62.04	0.00	0.18	-62.22	-13.00	49.22
47.10	V	47.33	-46.17	-17.74	0.19	-64.10	-13.00	51.1

LTE Band 71(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 665.5 MHz								
1331.00	H	51.65	-51.09	8.03	0.76	-43.82	-13.00	30.82
1331.00	V	50.24	-52.83	8.03	0.76	-45.56	-13.00	32.56
1996.50	H	54.19	-47.92	9.10	0.89	-39.71	-13.00	26.71
1996.50	V	52.65	-48.84	9.10	0.89	-40.63	-13.00	27.63
2662.00	H	53.06	-46.84	9.66	1.06	-38.24	-13.00	25.24
2662.00	V	51.91	-47.92	9.66	1.06	-39.32	-13.00	26.32
212.16	H	49.39	-60.60	0.00	0.20	-60.80	-13.00	47.8
89.56	V	48.77	-58.31	0.00	0.19	-58.50	-13.00	45.5
QPSK, Frequency: 680.5 MHz								
1361.00	H	50.93	-52.15	8.11	0.77	-44.81	-13.00	31.81
1361.00	V	49.84	-53.44	8.11	0.77	-46.10	-13.00	33.1
2041.50	H	53.74	-48.23	9.12	0.91	-40.02	-13.00	27.02
2041.50	V	51.88	-49.70	9.12	0.91	-41.49	-13.00	28.49
2722.00	H	53.58	-46.35	9.76	1.05	-37.64	-13.00	24.64
2722.00	V	52.35	-47.52	9.76	1.05	-38.81	-13.00	25.81
239.52	H	48.72	-60.76	0.00	0.25	-61.01	-13.00	48.01
97.90	V	46.83	-60.72	0.00	0.12	-60.84	-13.00	47.84
QPSK, Frequency: 695.5MHz								
1391.00	H	50.88	-52.54	8.19	0.72	-45.07	-13.00	32.07
1391.00	V	50.36	-53.14	8.19	0.72	-45.67	-13.00	32.67
2086.50	H	52.62	-49.24	9.15	0.91	-41.00	-13.00	28
2086.50	V	51.88	-49.85	9.15	0.91	-41.61	-13.00	28.61
2782.00	H	51.22	-48.66	9.85	1.05	-39.86	-13.00	26.86
2782.00	V	50.89	-48.87	9.85	1.05	-40.07	-13.00	27.07
99.84	H	52.07	-59.48	0.00	0.10	-59.58	-13.00	46.58
78.51	V	48.34	-56.92	-0.74	0.18	-57.84	-13.00	44.84

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

FCC §22.917(a) & §24.238(a) & §27.53& §90.691 - BAND EDGES

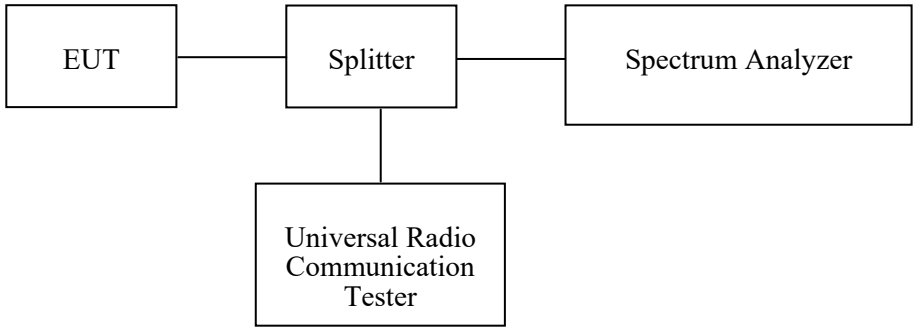
Applicable Standard

FCC § 2.1053, §22.917, § 24.238 and § 27.53, § 90.691;

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2021-07-07	2022-07-07
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each Time	N/A
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

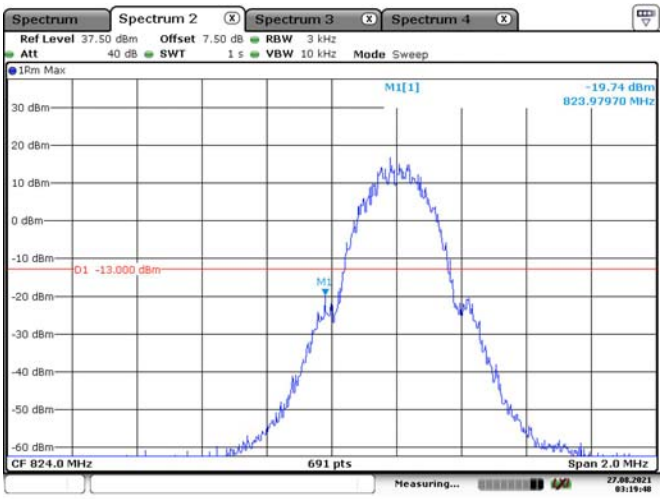
Test Data

Environmental Conditions

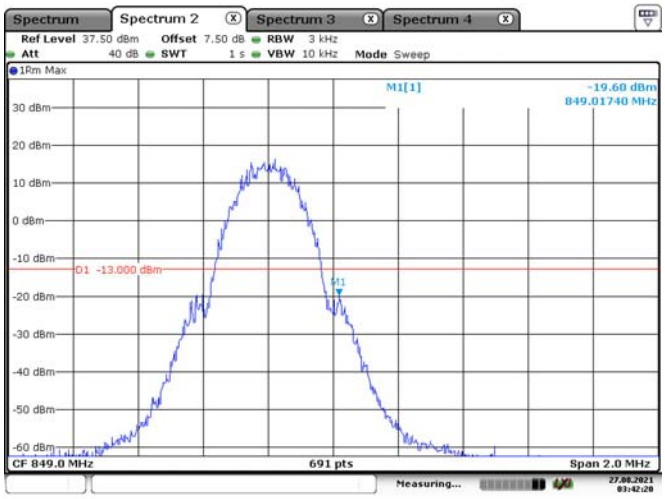
Temperature:	27.2~28.6 °C
Relative Humidity:	52~71 %
ATM Pressure:	100.2~100.6kPa
Tester:	Thehsy Xie
Test Date:	2021-08-25~2021-09-03

Test Mode: Transmitting
Test Result: Compliance. Please refer to the following plots.

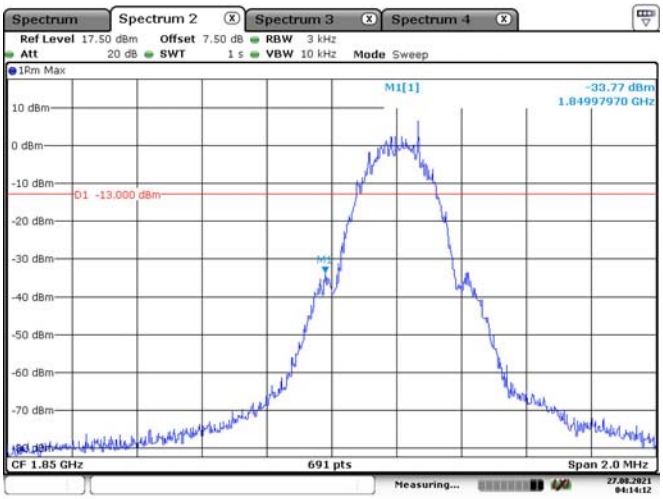
GSM 850, Left Band Edge



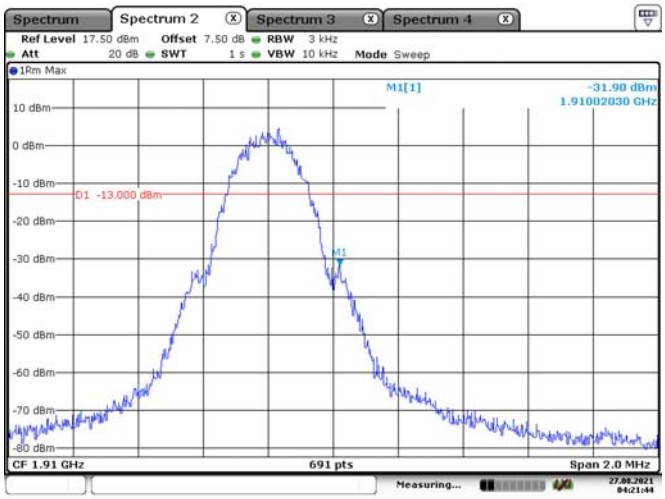
GSM 850, Right Band Edge



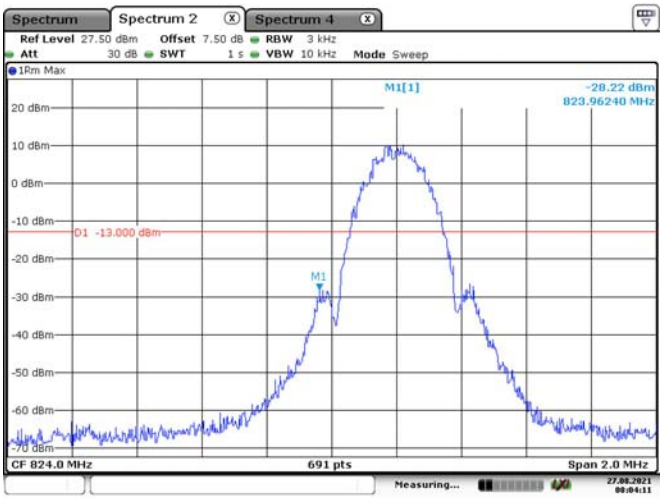
GSM 1900, Left Band Edge



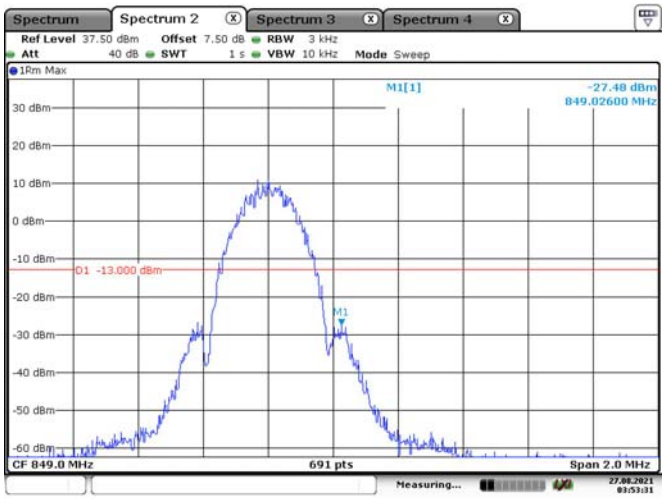
GSM 1900, Right Band Edge



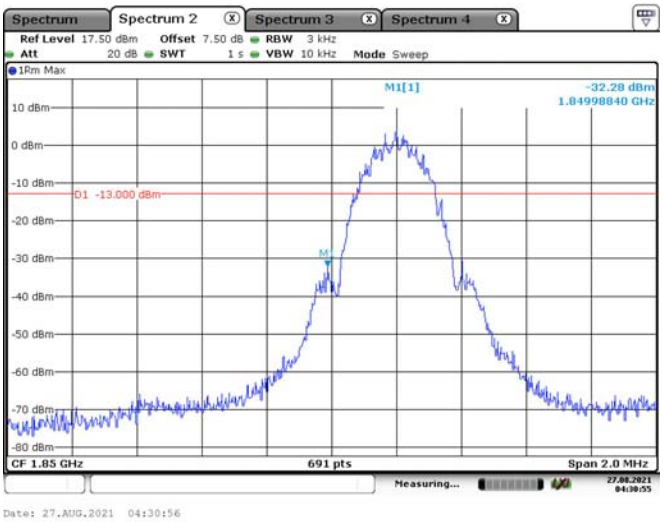
EGPRS 850, Left Band Edge



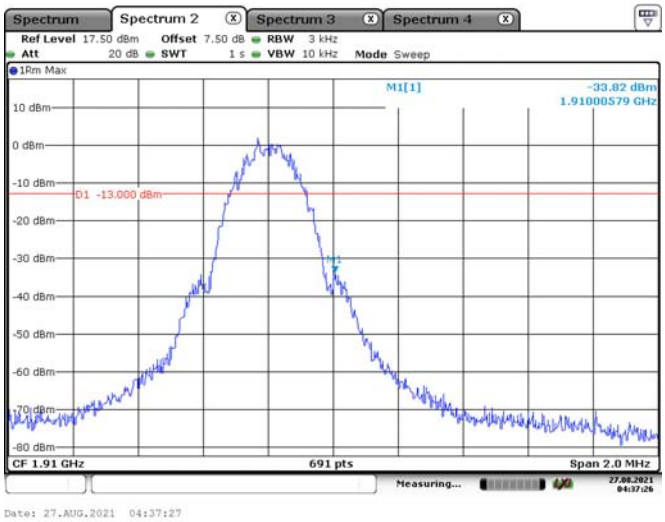
EGPRS 850, Right Band Edge



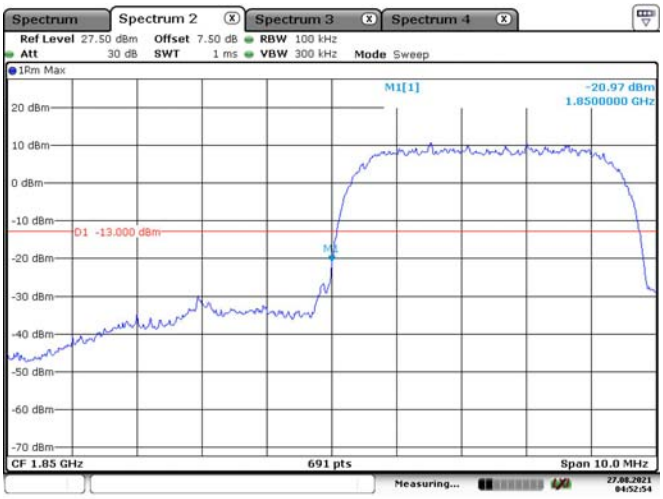
EGPRS 1900, Left Band Edge



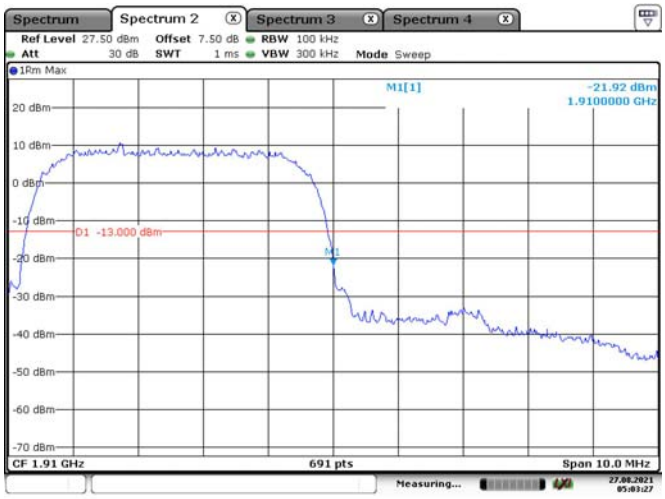
EGPRS 1900, Right Band Edge



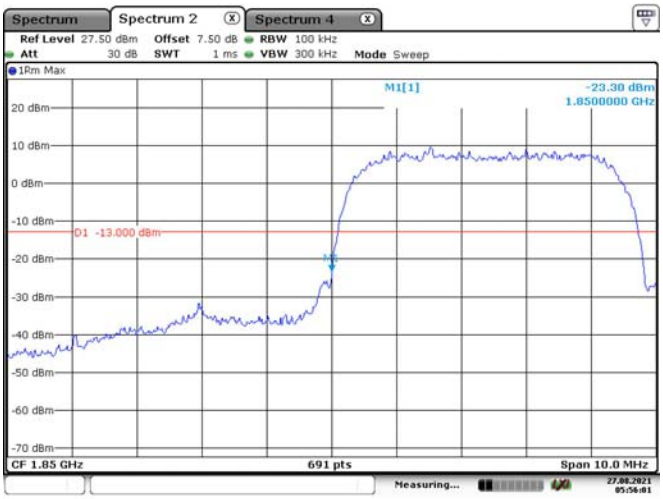
WCDMA Band II,Rel99, Left Band Edge



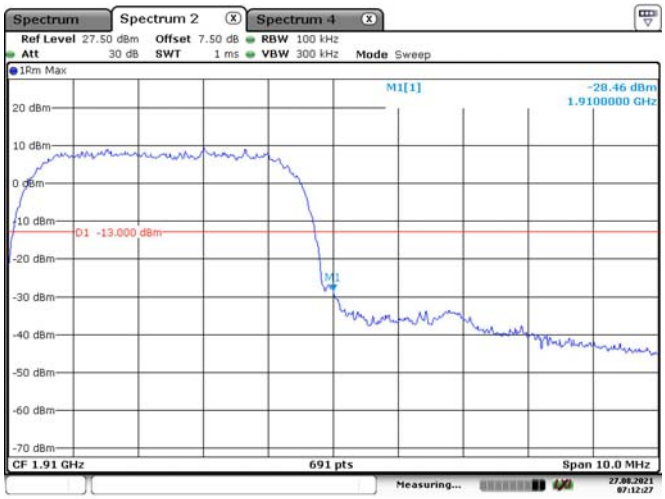
WCDMA Band II,Rel99, Right Band Edge



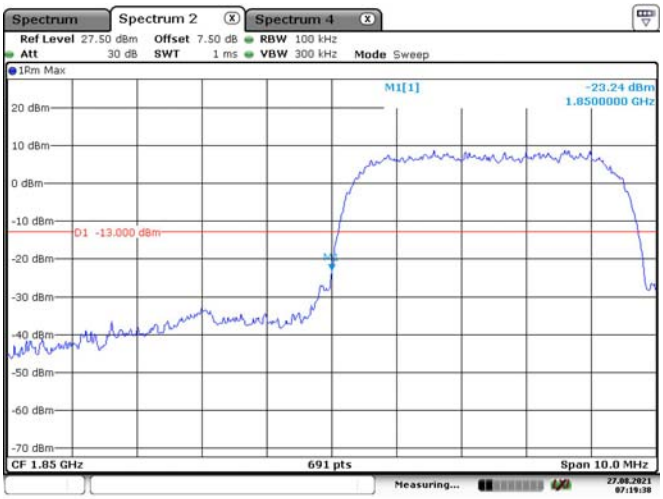
WCDMA Band II,HSDPA, Left Band Edge



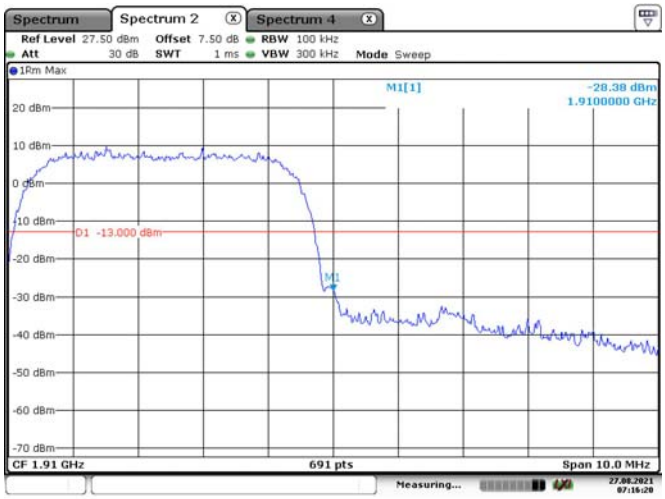
WCDMA Band II,HSDPA,Right Band Edge



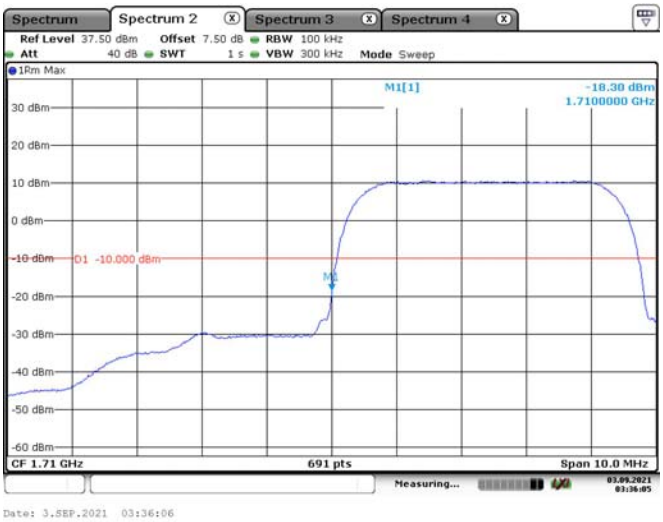
WCDMA Band II,HSUPA, Left Band Edge



WCDMA Band II,HSUPA, Right Band Edge

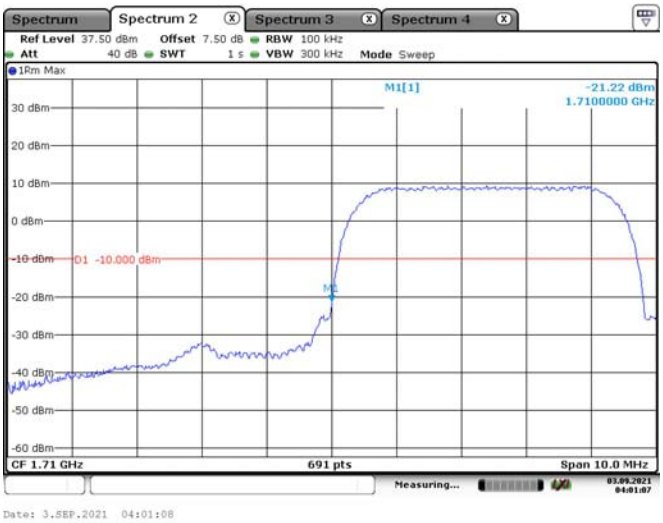


WCDMA Band IV,Rel99, Left Band Edge

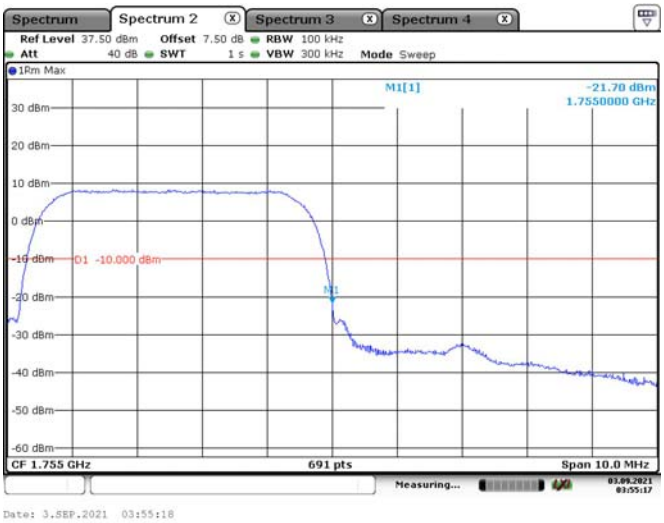


WCDMA Band IV,Rel99, Right Band Edge

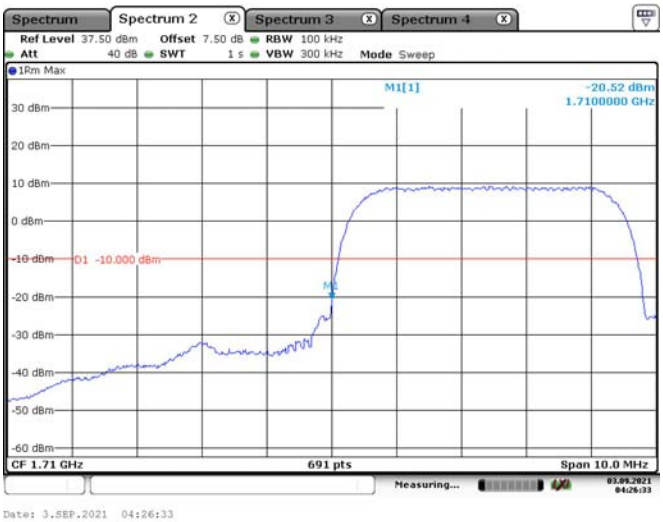
WCDMA Band IV,HSDPA, Left Band Edge



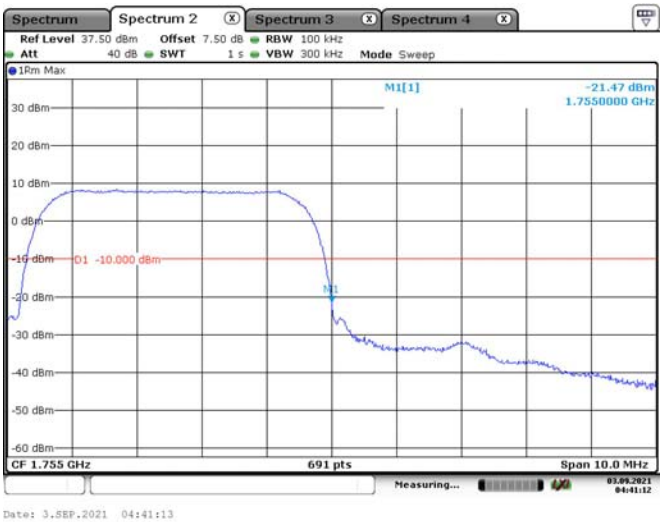
WCDMA Band IV,HSDPA,Right Band Edge



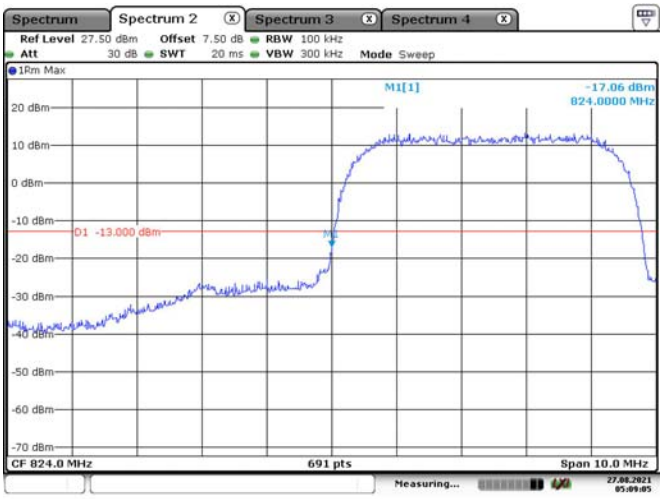
WCDMA Band IV,HSUPA, Left Band Edge



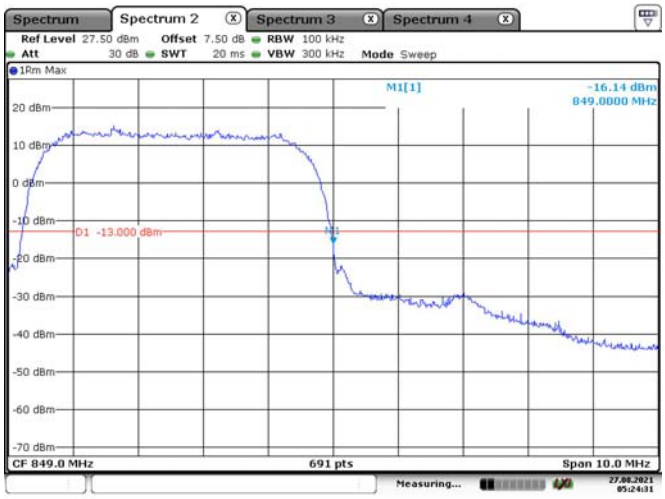
WCDMA Band IV,HSUPA, Right Band Edge



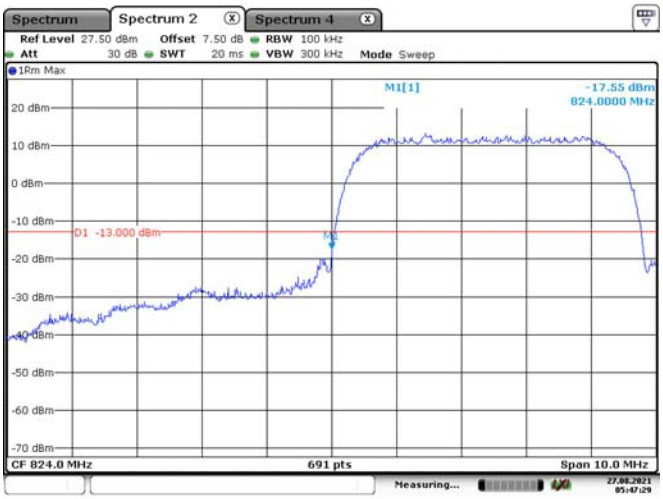
WCDMA Band V,Rel99, Left Band Edge



WCDMA Band V,Rel99, Right Band Edge



WCDMA Band V,HSDPA, Left Band Edge



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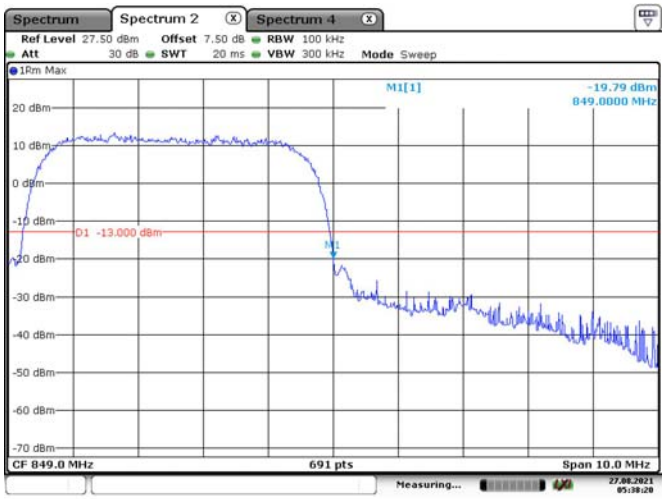

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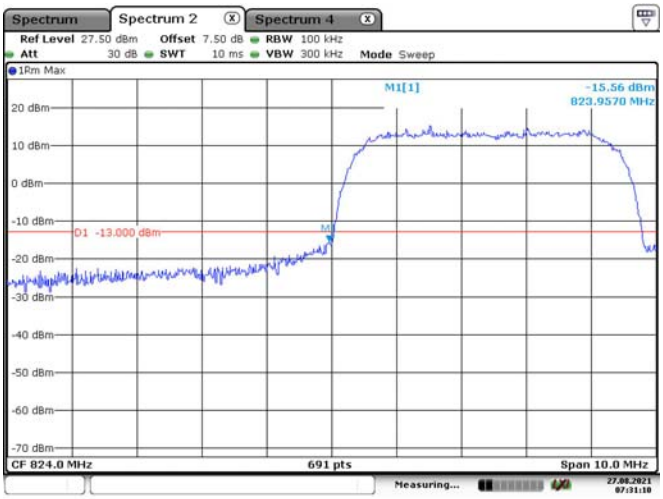

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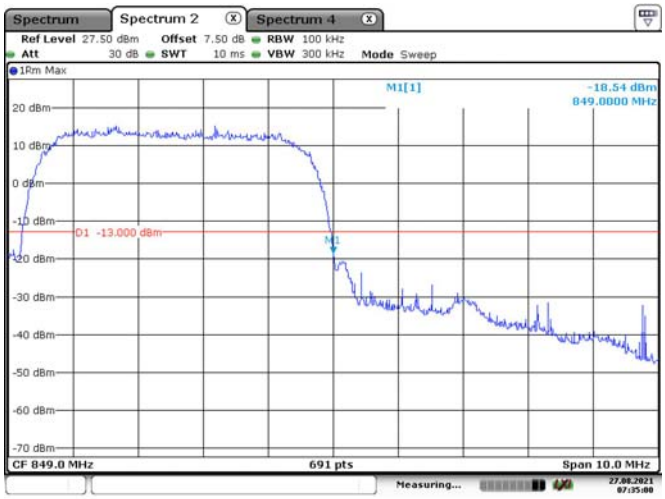
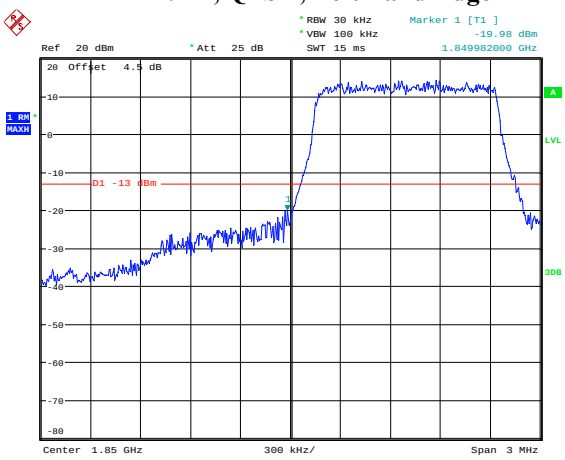


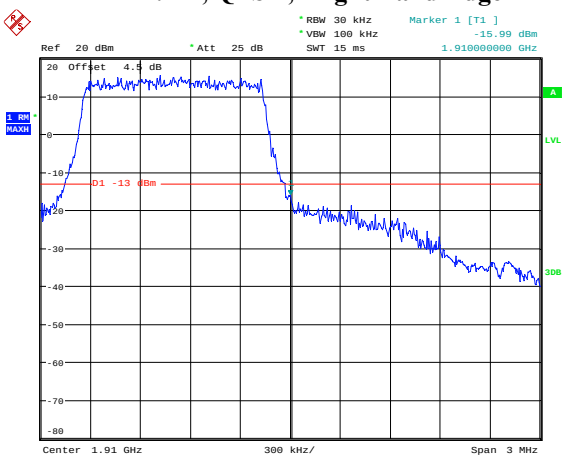
LTE Band 2:

1.4M, QPSK, Left Band Edge



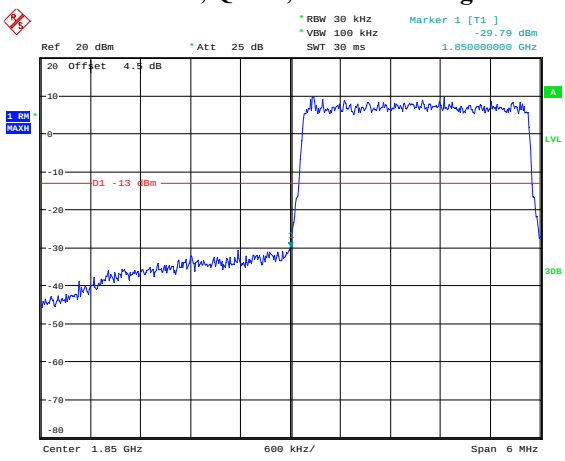
Date: 25.AUG.2021 14:55:19

1.4M, QPSK, Right Band Edge



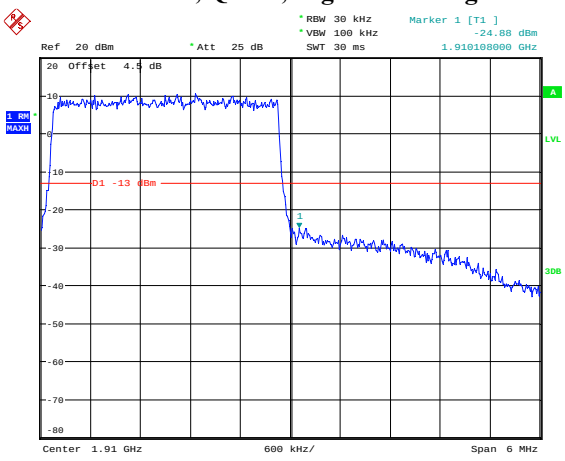
Date: 25.AUG.2021 14:55:57

3M, QPSK, Left Band Edge



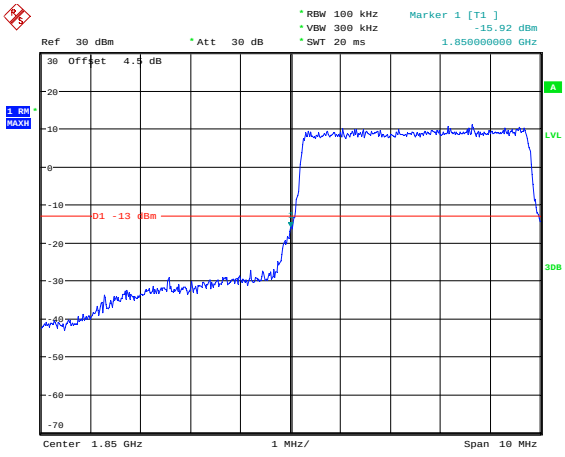
Date: 25.AUG.2021 14:56:38

3M, QPSK, Right Band Edge



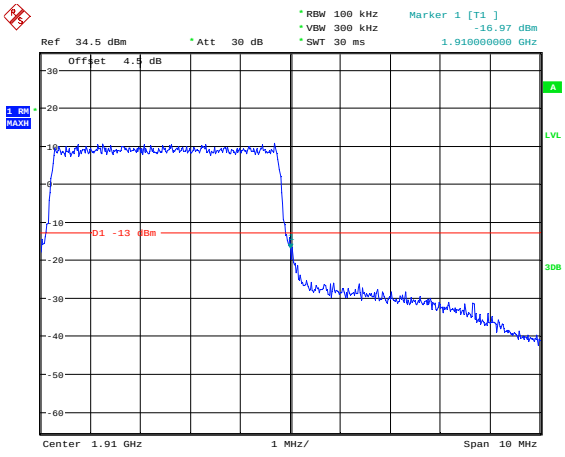
Date: 25.AUG.2021 14:57:16

5M, QPSK, Left Band Edge



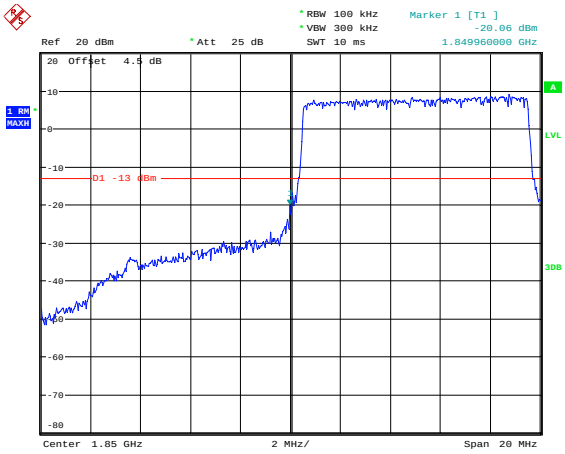
Date: 25.AUG.2021 14:58:23

5M, QPSK, Right Band Edge



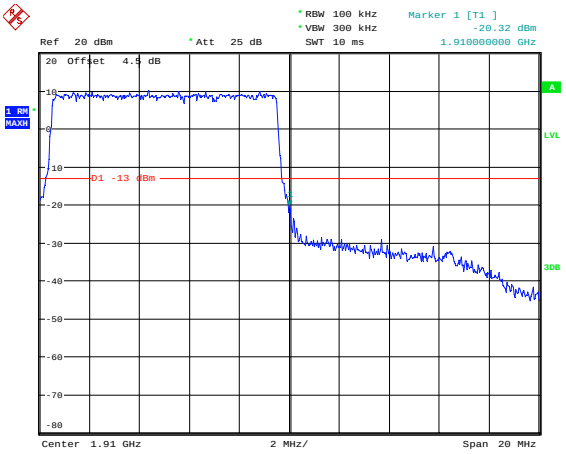
Date: 25.AUG.2021 16:30:08

10M, QPSK, Left Band Edge



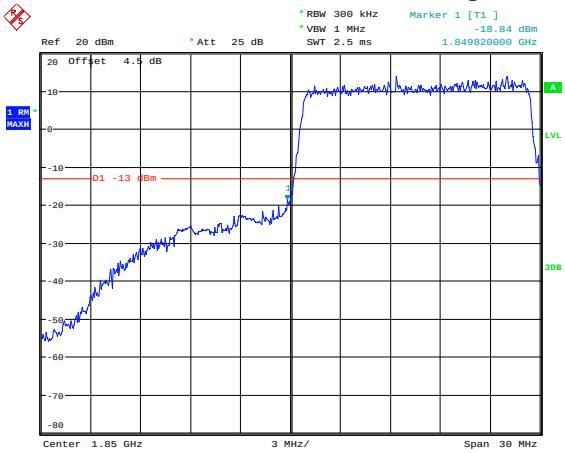
Date: 25.AUG.2021 15:01:04

10M, QPSK, Right Band Edge



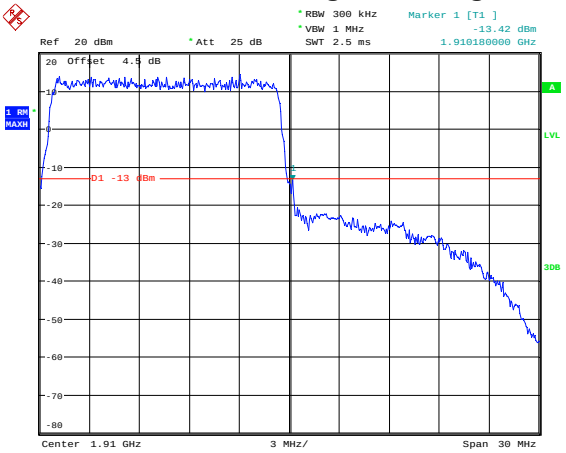
Date: 25.AUG.2021 15:01:45

15M, QPSK, Left Band Edge



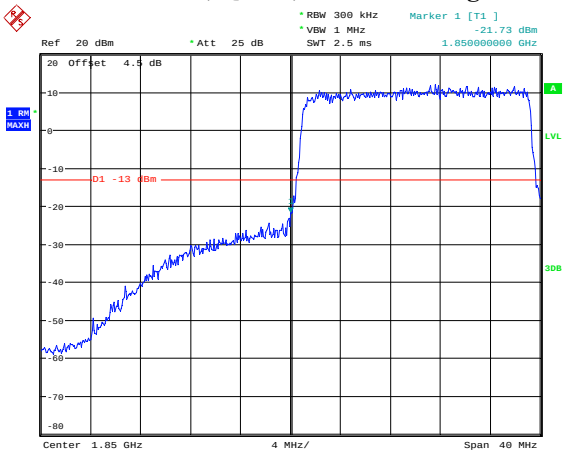
Date: 25.AUG.2021 15:02:28

15M, QPSK, Right Band Edge



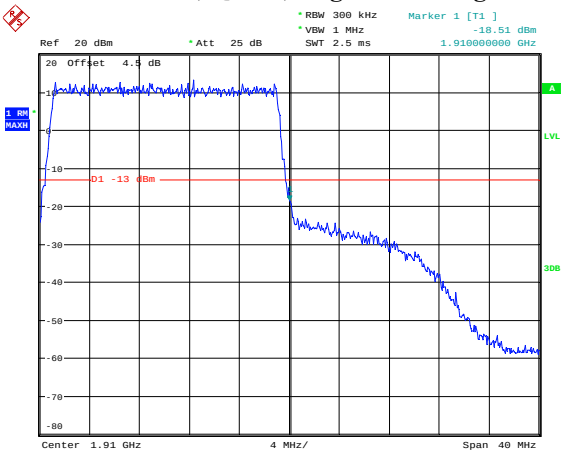
Date: 25.AUG.2021 15:03:13

20M, QPSK, Left Band Edge



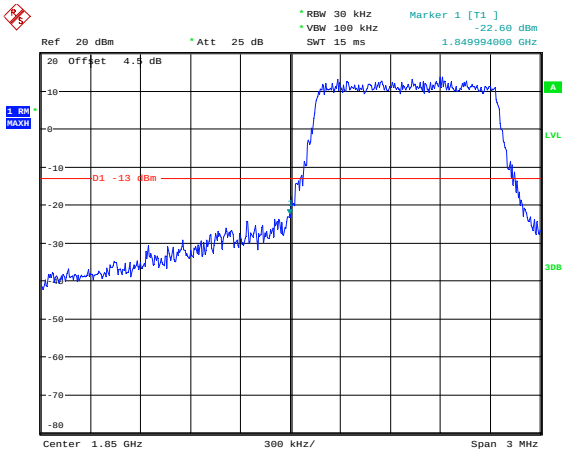
Date: 25.AUG.2021 15:04:16

20M, QPSK, Right Band Edge



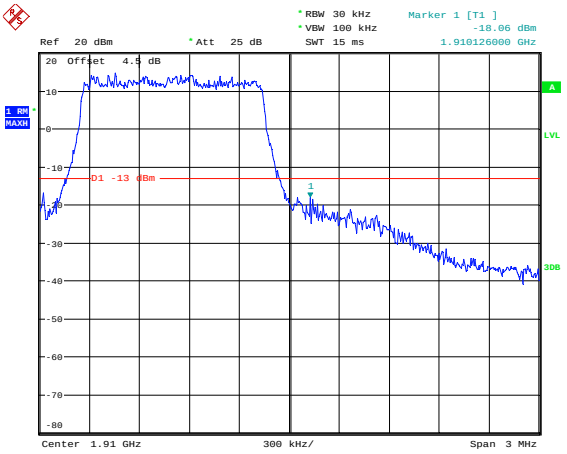
Date: 25.AUG.2021 15:05:01

1.4M, 16QAM, Left Band Edge



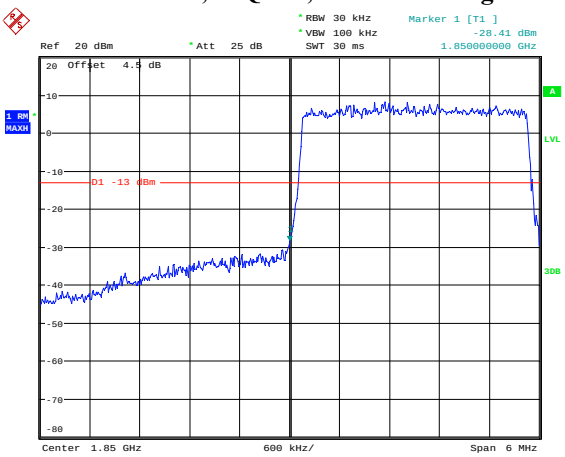
Date: 25.AUG.2021 14:55:36

1.4M, 16QAM, Right Band Edge



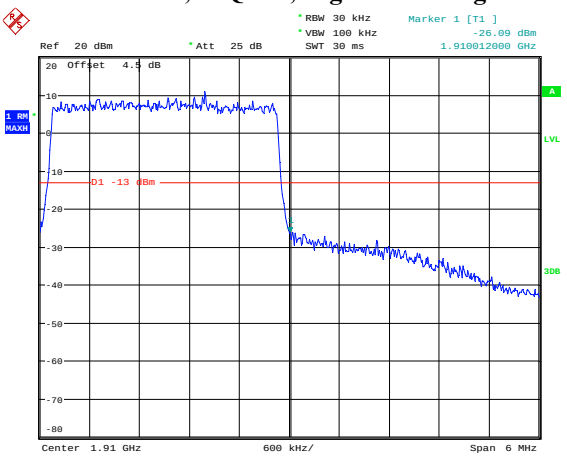
Date: 25.AUG.2021 14:56:17

3M, 16QAM, Left Band Edge



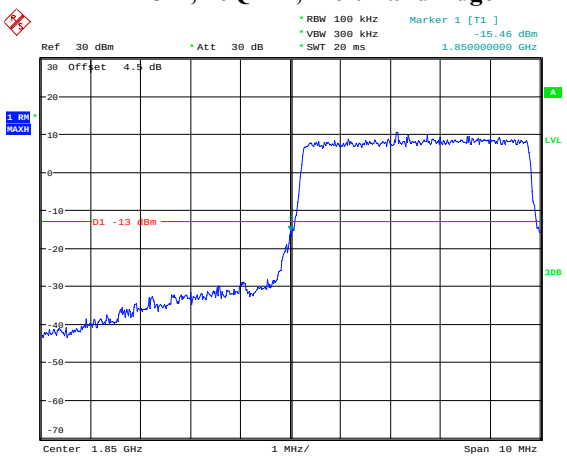
Date: 25.AUG.2021 14:56:55

3M, 16QAM, Right Band Edge



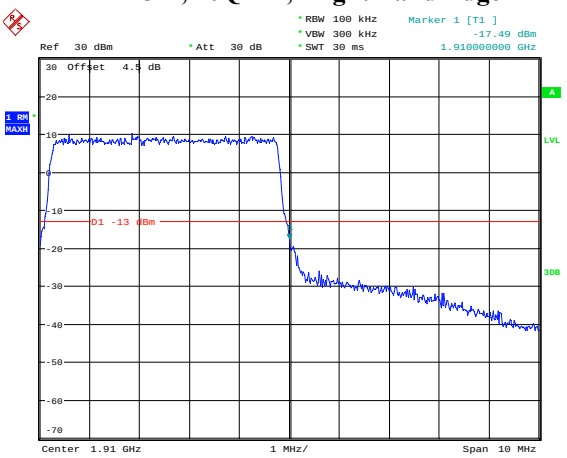
Date: 25.AUG.2021 14:57:36

5M, 16QAM, Left Band Edge



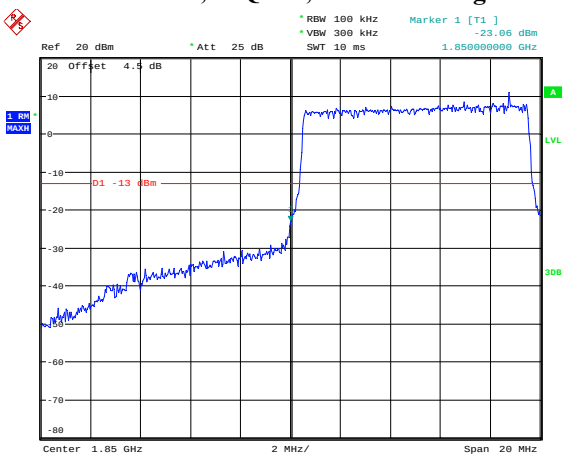
Date: 25.AUG.2021 14:59:01

5M, 16QAM, Right Band Edge



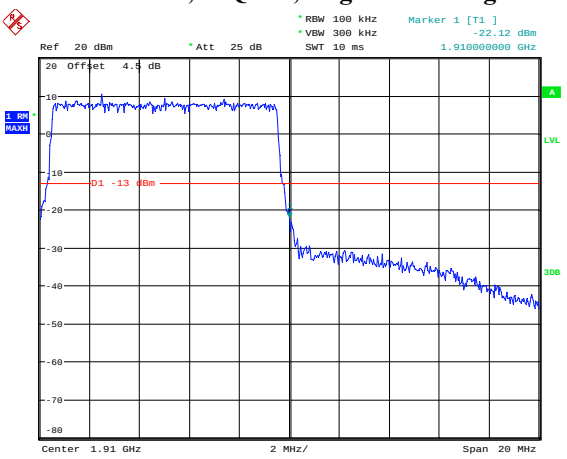
Date: 25.AUG.2021 15:00:42

10M, 16QAM, Left Band Edge



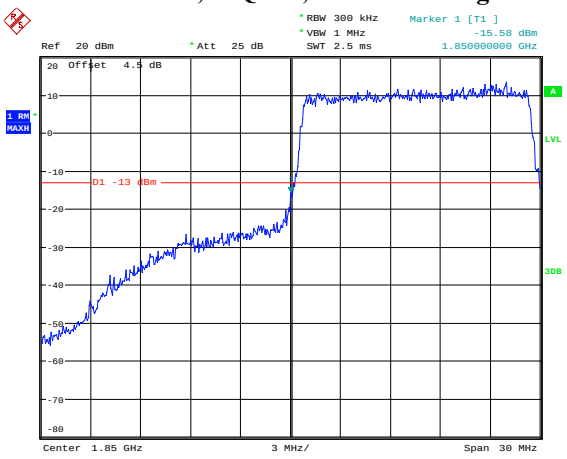
Date: 25.AUG.2021 15:01:22

10M, 16QAM, Right Band Edge



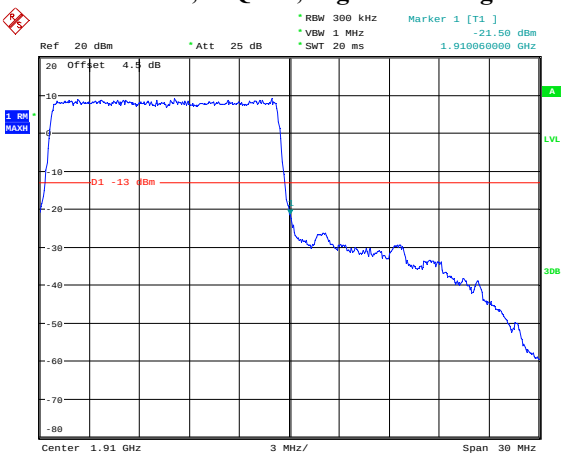
Date: 25.AUG.2021 15:02:03

15M, 16QAM, Left Band Edge



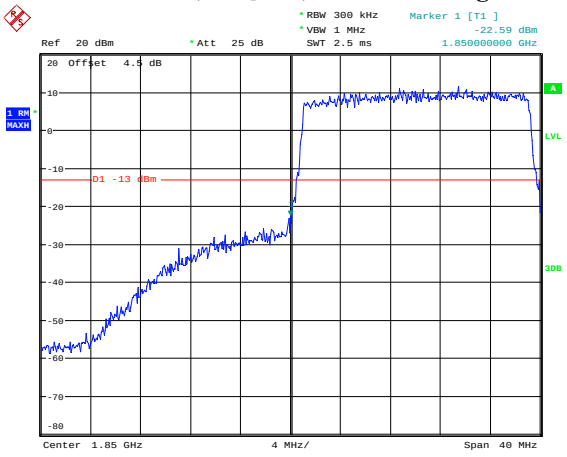
Date: 25.AUG.2021 15:02:51

15M, 16QAM, Right Band Edge



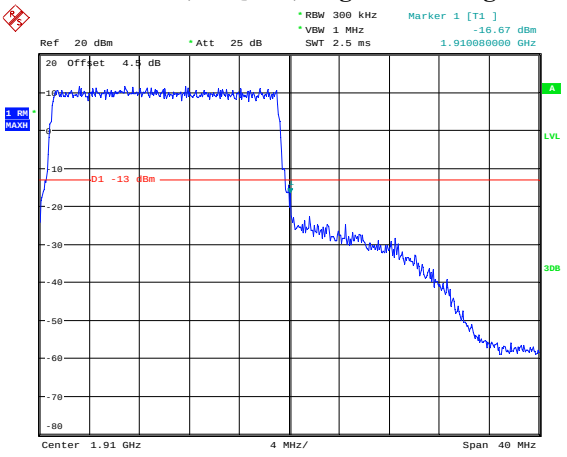
Date: 25.AUG.2021 15:03:48

20M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:04:39

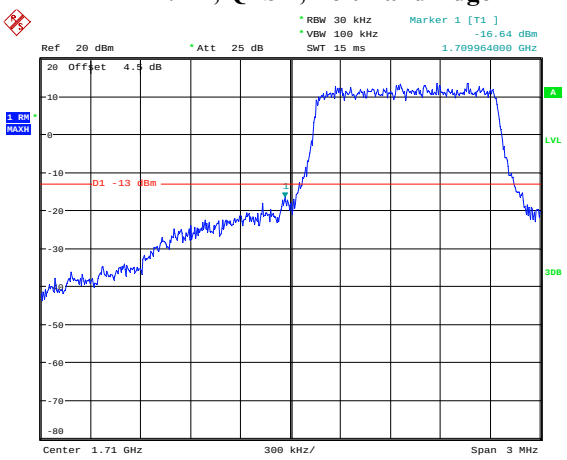
20M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:05:24

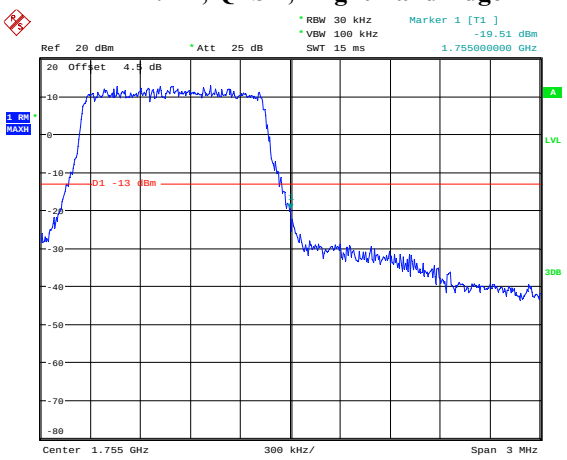
LTE Band 4:

1.4M, QPSK, Left Band Edge



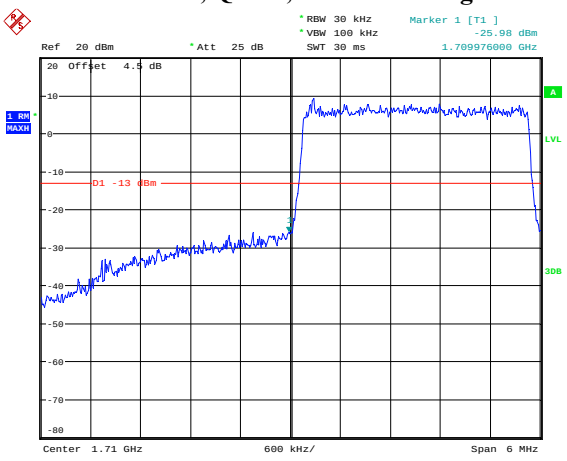
Date: 25.AUG.2021 15:05:48

1.4M, QPSK, Right Band Edge



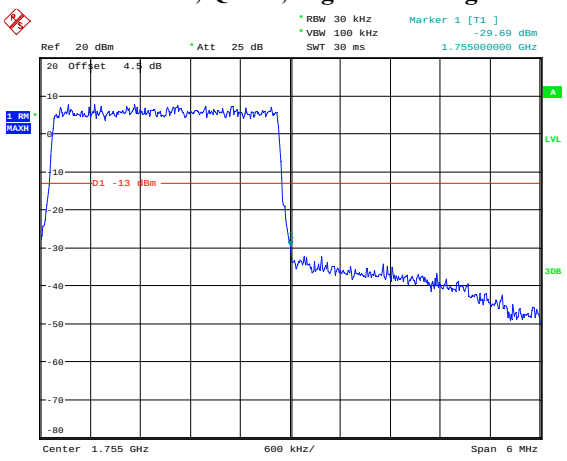
Date: 25.AUG.2021 15:06:30

3M, QPSK, Left Band Edge



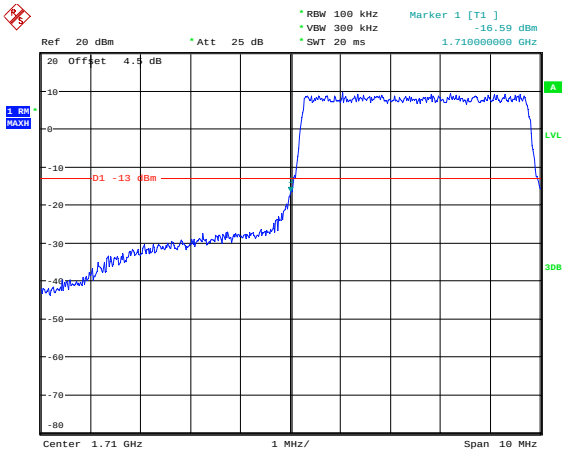
Date: 25.AUG.2021 15:07:14

3M, QPSK, Right Band Edge



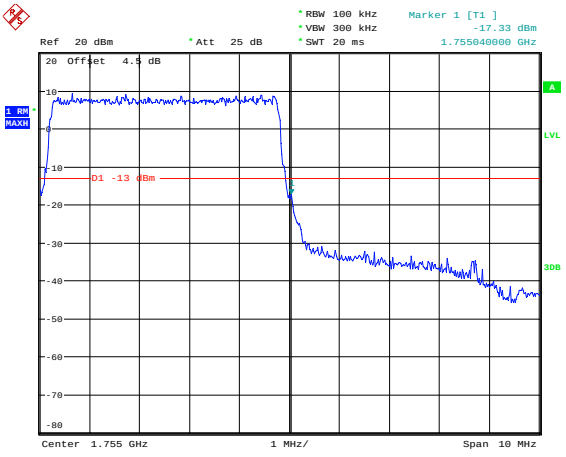
Date: 25.AUG.2021 15:07:52

5M, QPSK, Left Band Edge



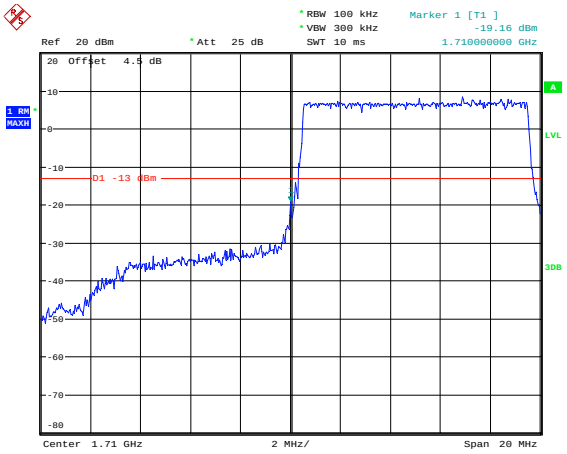
Date: 25.AUG.2021 15:08:42

5M, QPSK, Right Band Edge



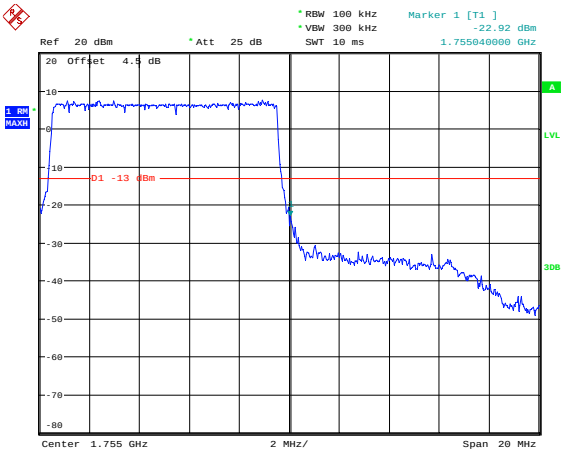
Date: 25.AUG.2021 15:09:34

10M, QPSK, Left Band Edge



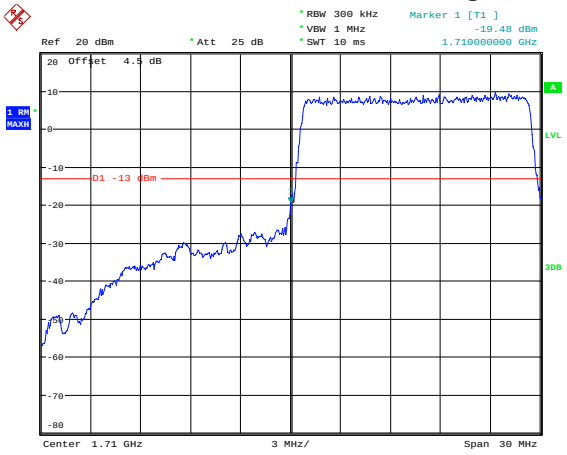
Date: 25.AUG.2021 15:10:22

10M, QPSK, Right Band Edge



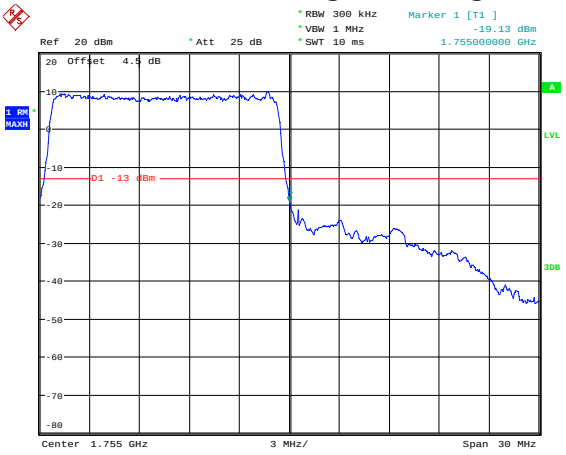
Date: 25.AUG.2021 15:11:02

15M, QPSK, Left Band Edge



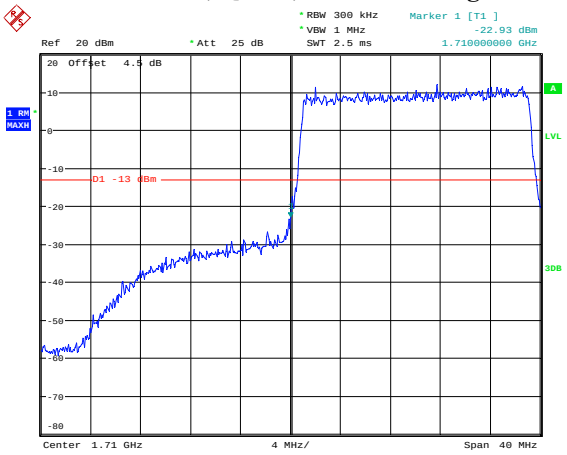
Date: 25.AUG.2021 15:11:57

15M, QPSK, Right Band Edge



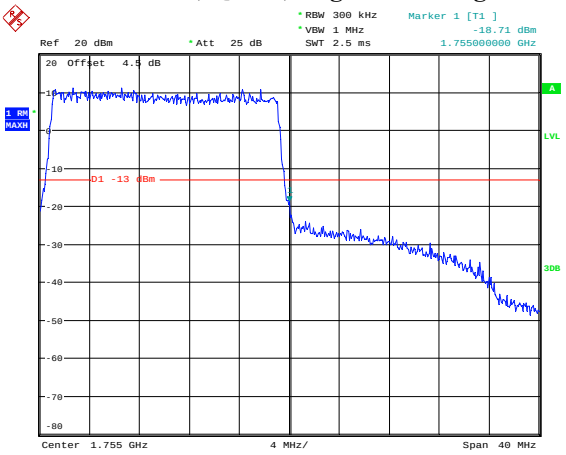
Date: 25.AUG.2021 15:14:46

20M, QPSK, Left Band Edge



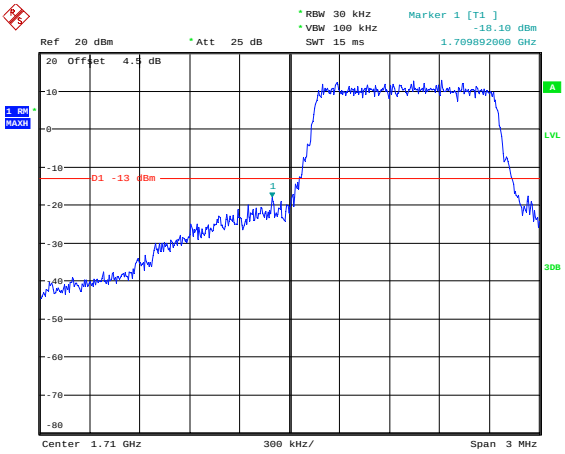
Date: 25.AUG.2021 15:15:34

20M, QPSK, Right Band Edge



Date: 25.AUG.2021 15:16:22

1.4M, 16QAM, Left Band Edge



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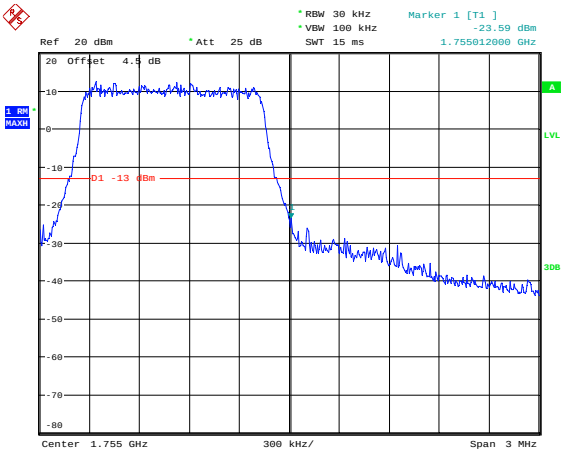
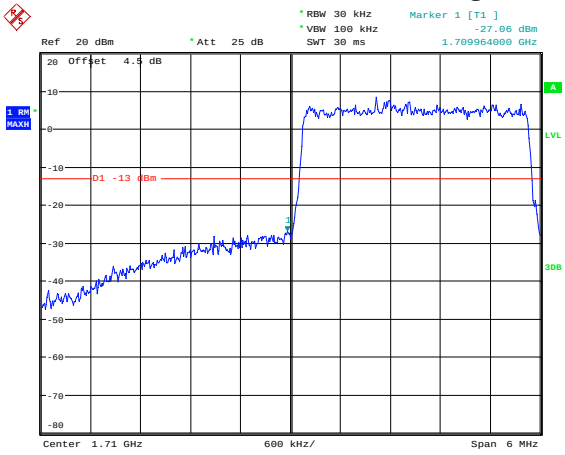
1.4M, 16QAM, Right Band Edge



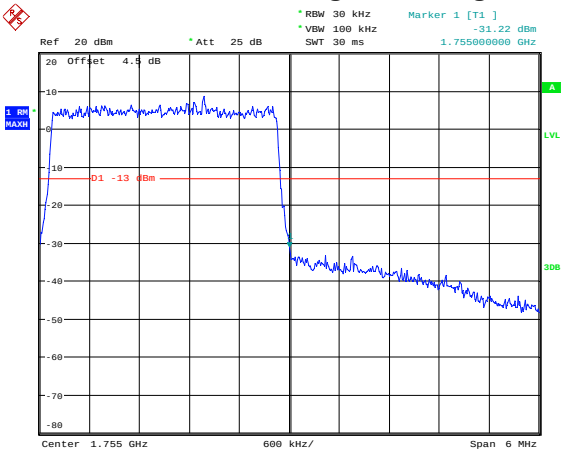
Date: 25.AUG.2021 15:06:50

3M, 16QAM, Left Band Edge



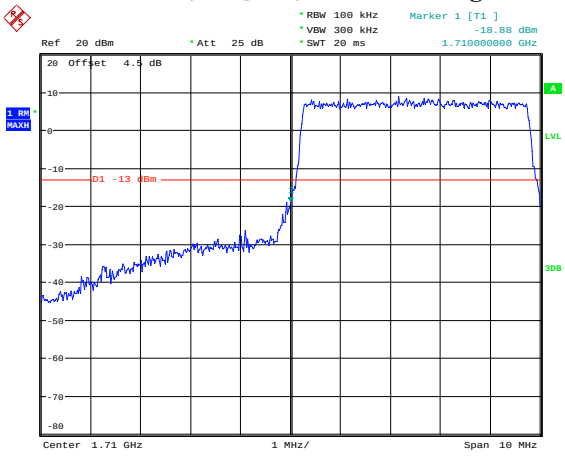
Date: 25.AUG.2021 15:07:34

3M, 16QAM, Right Band Edge



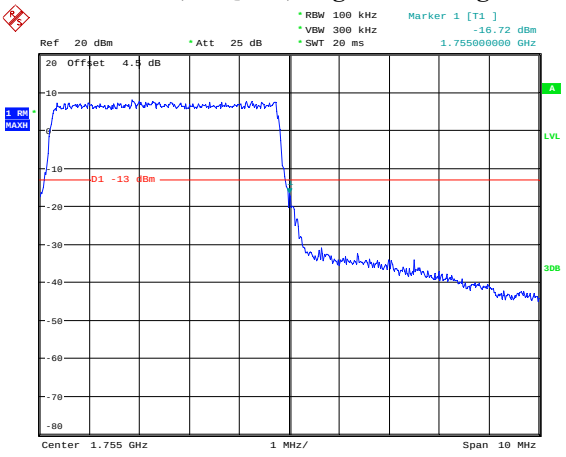
Date: 25.AUG.2021 15:08:09

5M, 16QAM, Left Band Edge



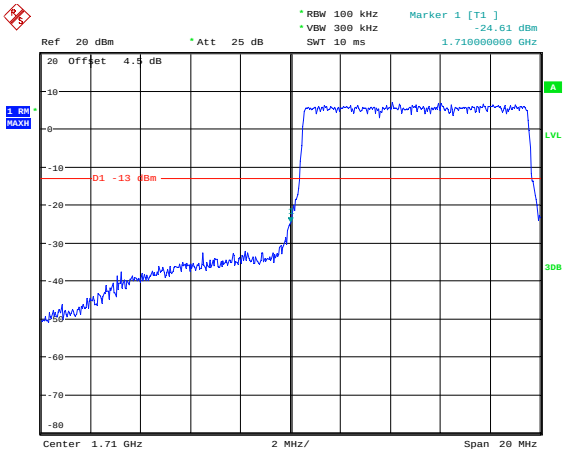
Date: 25.AUG.2021 15:09:07

5M, 16QAM, Right Band Edge



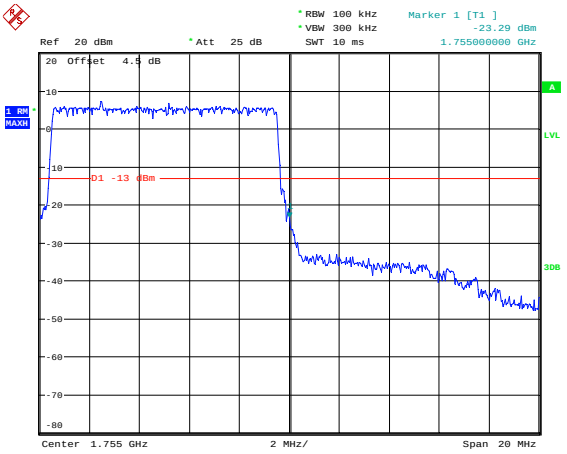
Date: 25.AUG.2021 15:09:57

10M, 16QAM, Left Band Edge



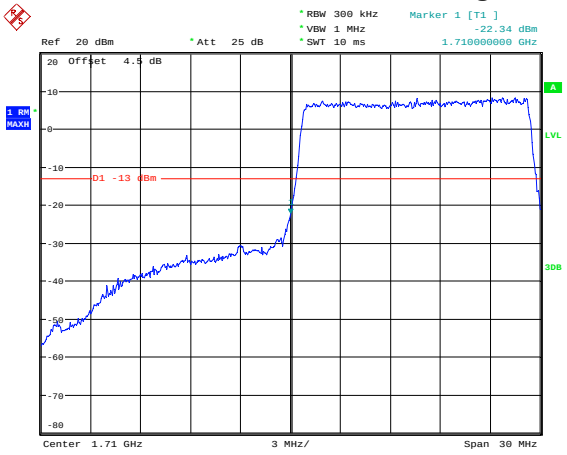
Date: 25.AUG.2021 15:10:40

10M, 16QAM, Right Band Edge



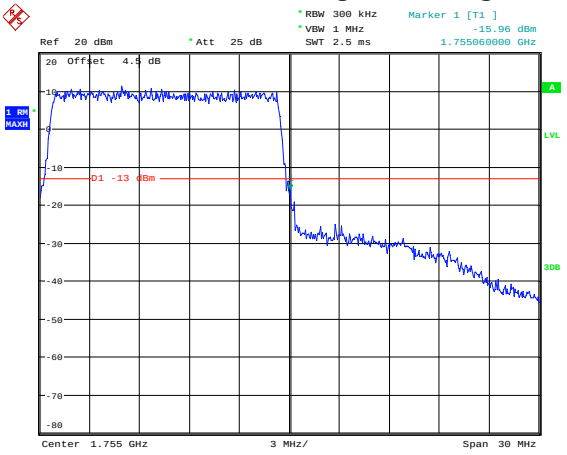
Date: 25.AUG.2021 15:11:20

15M, 16QAM, Left Band Edge



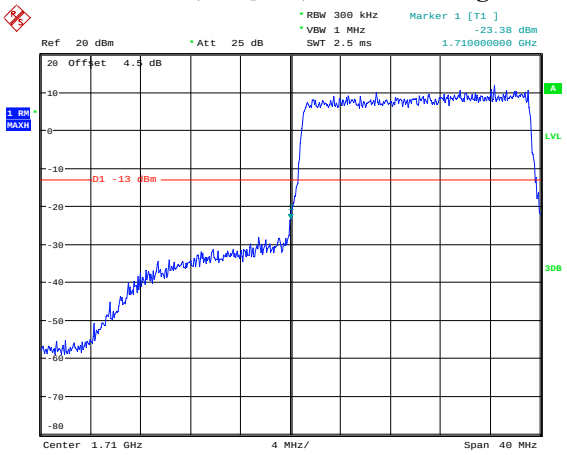
Date: 25.AUG.2021 15:12:30

15M, 16QAM, Right Band Edge



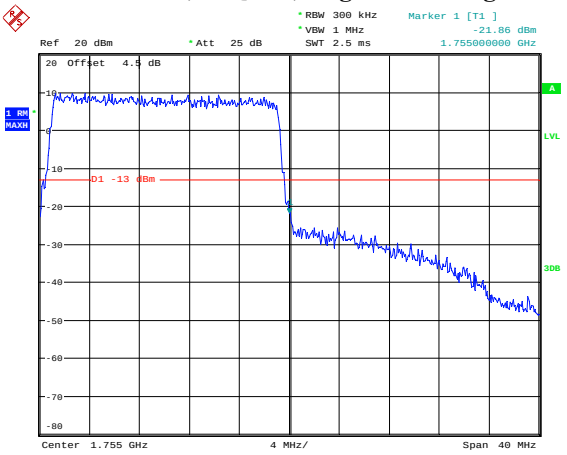
Date: 25.AUG.2021 15:15:07

20M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:15:57

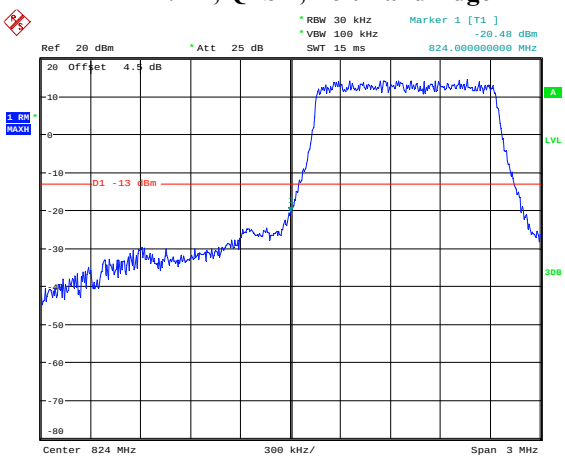
20M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:16:46

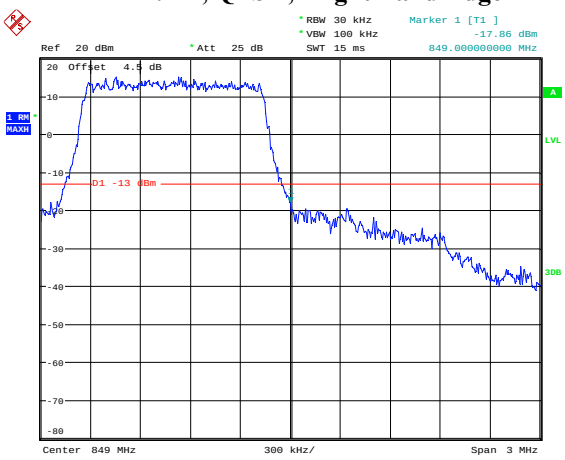
LTE Band 5:

1.4M, QPSK, Left Band Edge



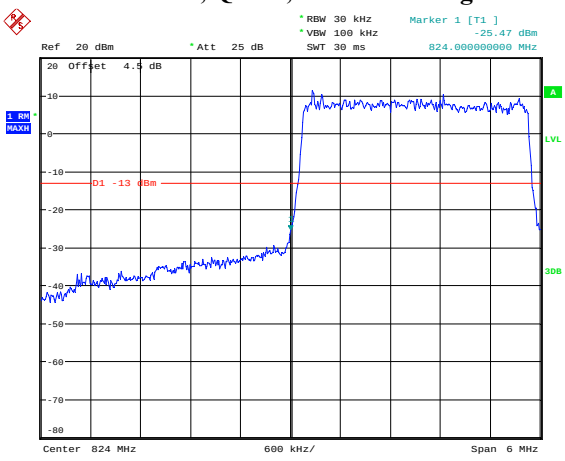
Date: 25.AUG.2021 15:17:10

1.4M, QPSK, Right Band Edge



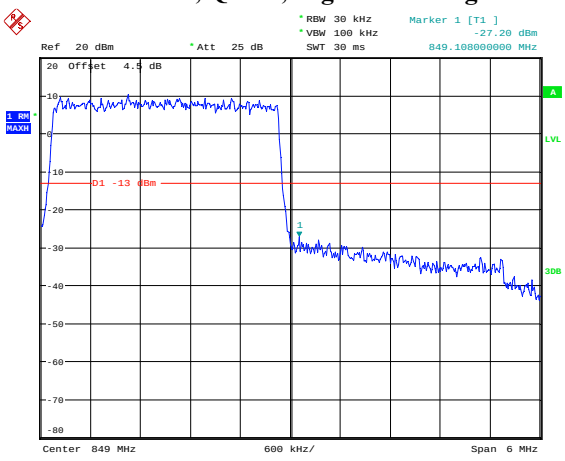
Date: 25.AUG.2021 15:17:51

3M, QPSK, Left Band Edge



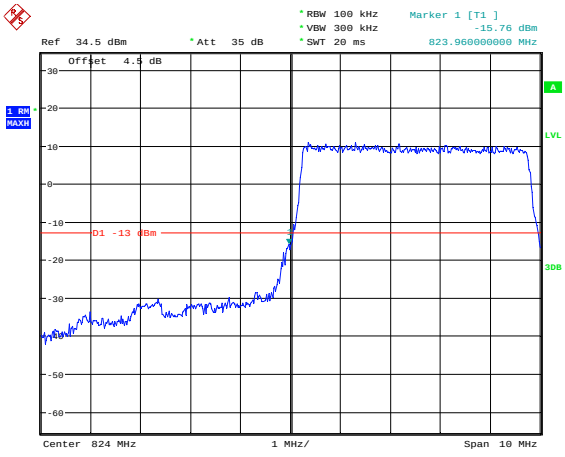
Date: 25.AUG.2021 15:18:36

3M, QPSK, Right Band Edge



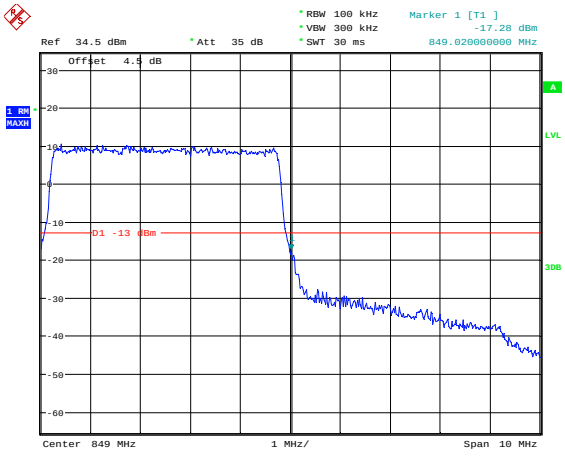
Date: 25.AUG.2021 15:19:14

5M, QPSK, Left Band Edge



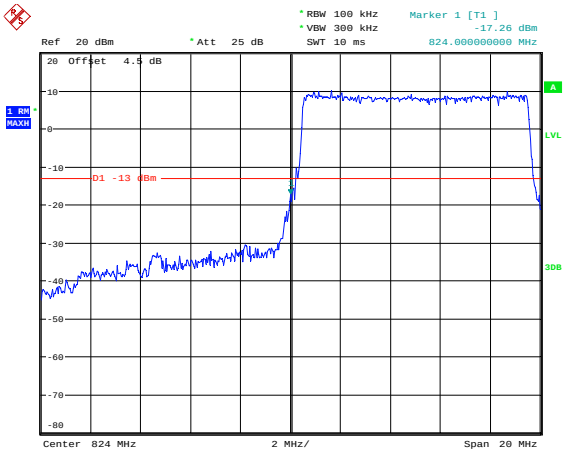
Date: 25.AUG.2021 15:20:10

5M, QPSK, Right Band Edge



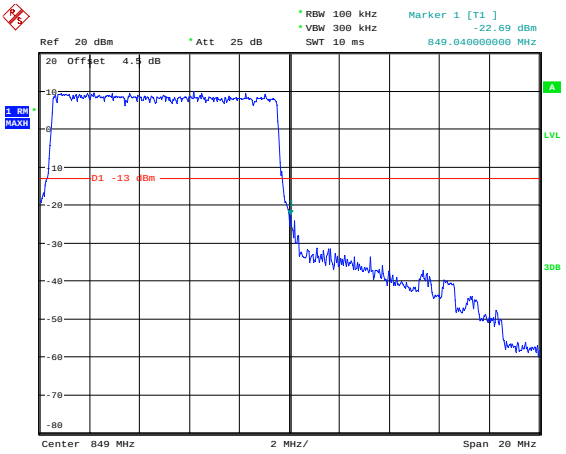
Date: 25.AUG.2021 15:21:31

10M, QPSK, Left Band Edge



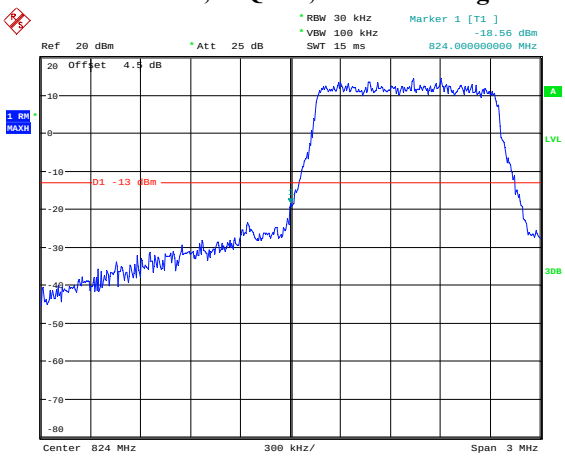
Date: 25.AUG.2021 15:22:38

10M, QPSK, Right Band Edge



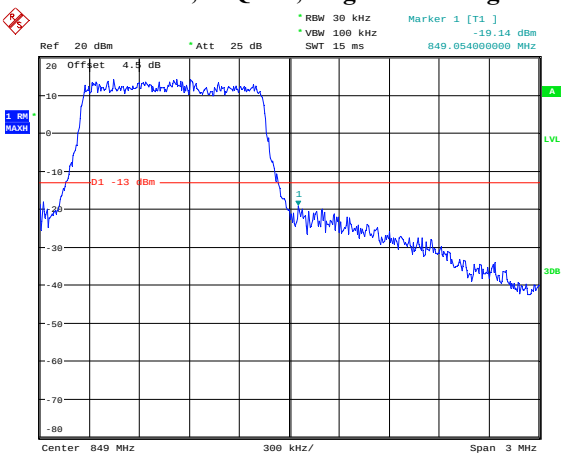
Date: 25.AUG.2021 15:23:21

1.4M, 16QAM, Left Band Edge



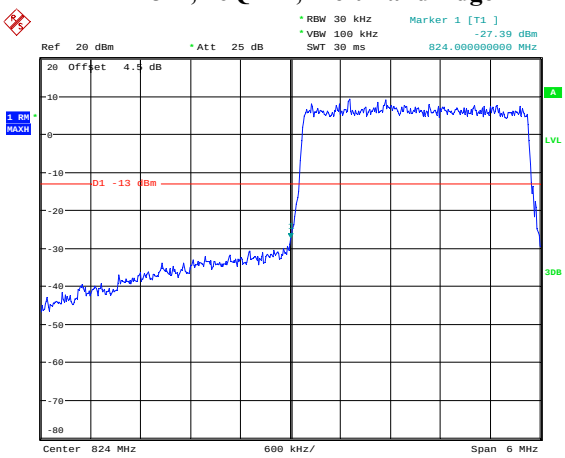
Date: 25.AUG.2021 15:17:30

1.4M, 16QAM, Right Band Edge



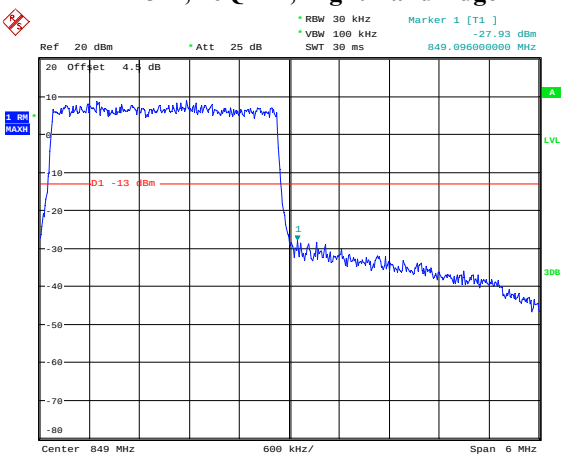
Date: 25.AUG.2021 15:18:12

3M, 16QAM, Left Band Edge



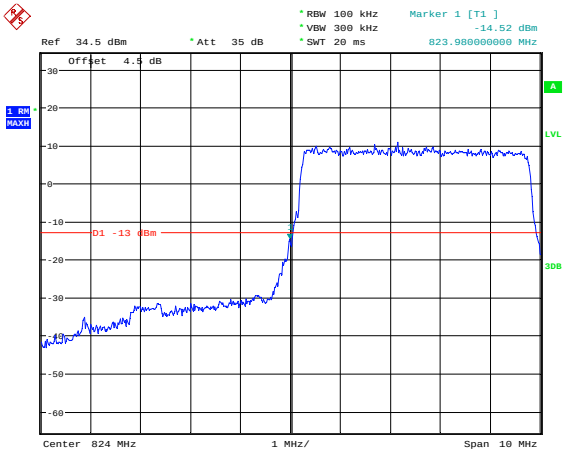
Date: 25.AUG.2021 15:18:53

3M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:19:31

5M, 16QAM, Left Band Edge



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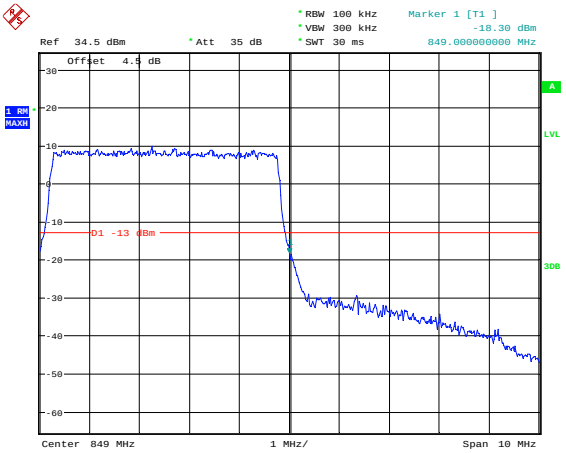
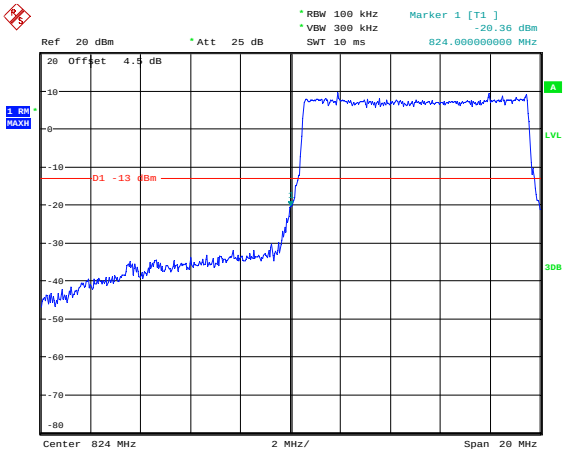
5M, 16QAM, Right Band Edge



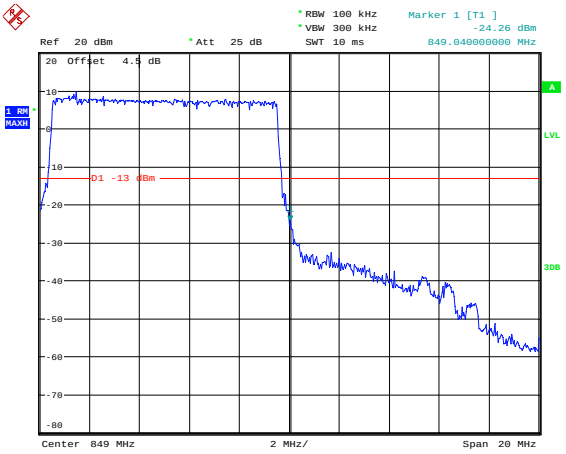
Date: 25.AUG.2021 15:22:14

10M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:22:59

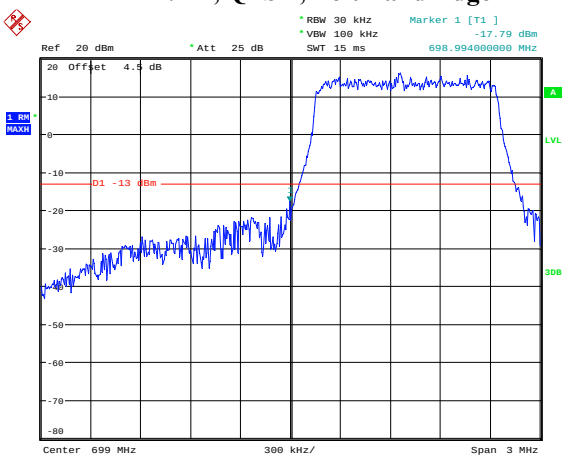
10M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:23:42

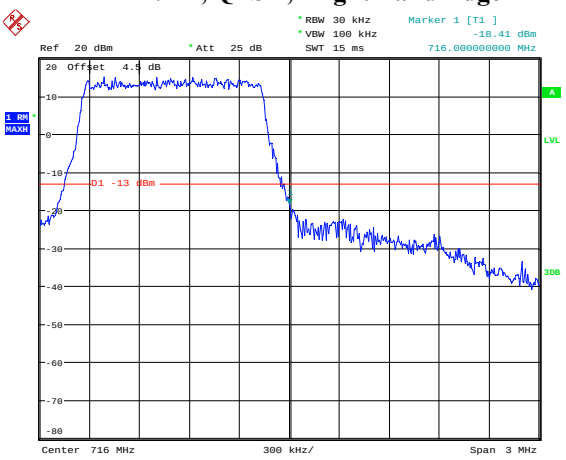
LTE Band 12:

1.4M, QPSK, Left Band Edge



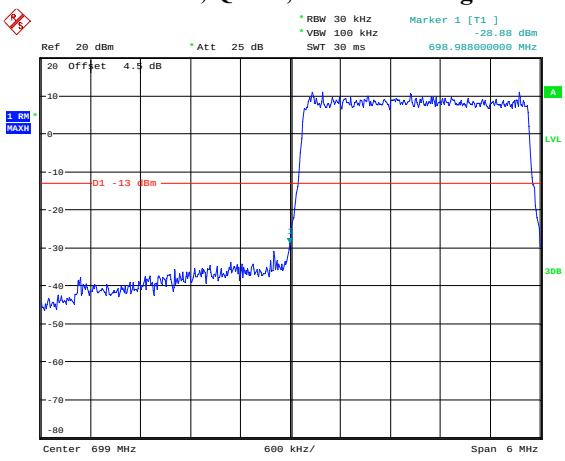
Date: 25.AUG.2021 15:24:07

1.4M, QPSK, Right Band Edge



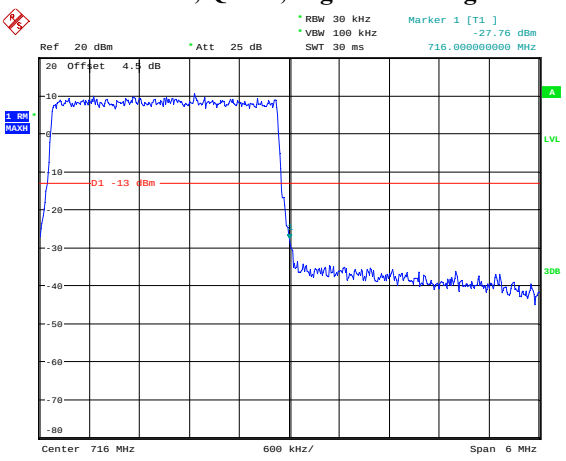
Date: 25.AUG.2021 15:25:08

3M, QPSK, Left Band Edge



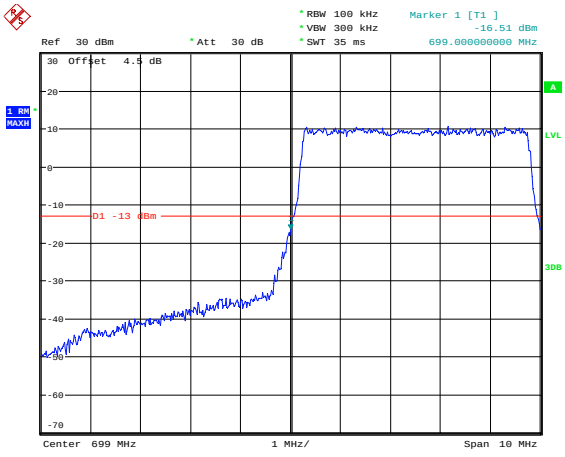
Date: 25.AUG.2021 15:25:49

3M, QPSK, Right Band Edge



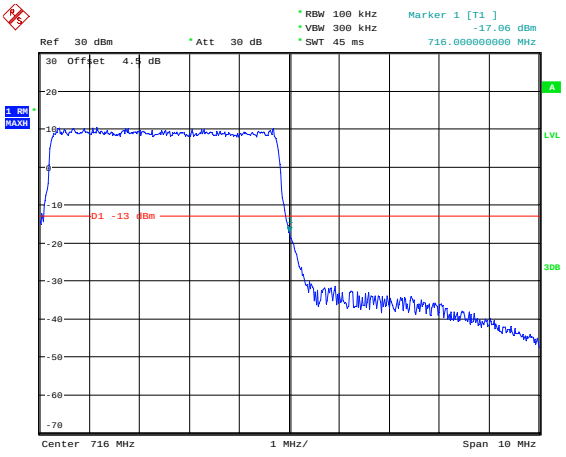
Date: 25.AUG.2021 15:26:31

5M, QPSK, Left Band Edge



Date: 25.AUG.2021 15:28:02

5M, QPSK, Right Band Edge



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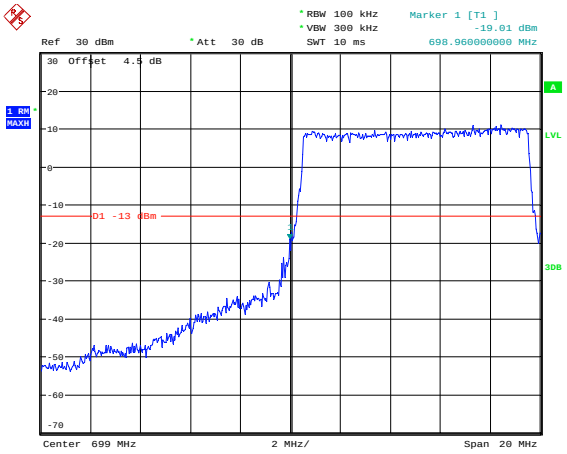
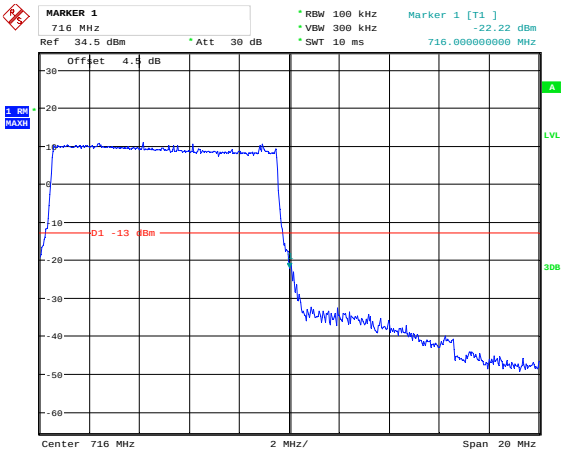
10M, QPSK, Left Band Edge



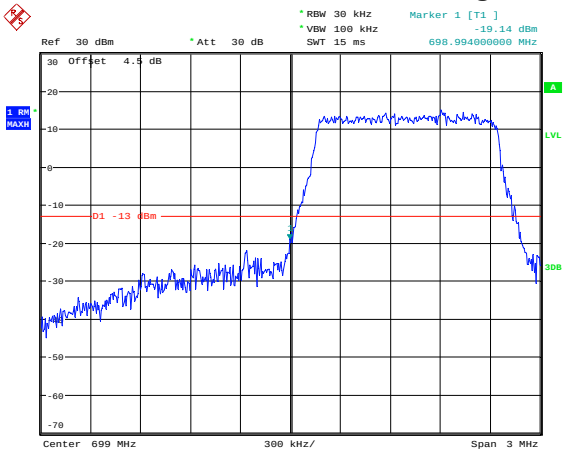
Date: 25.AUG.2021 15:30:48

10M, QPSK, Right Band Edge



Date: 25.AUG.2021 16:32:08

1.4M, 16QAM, Left Band Edge



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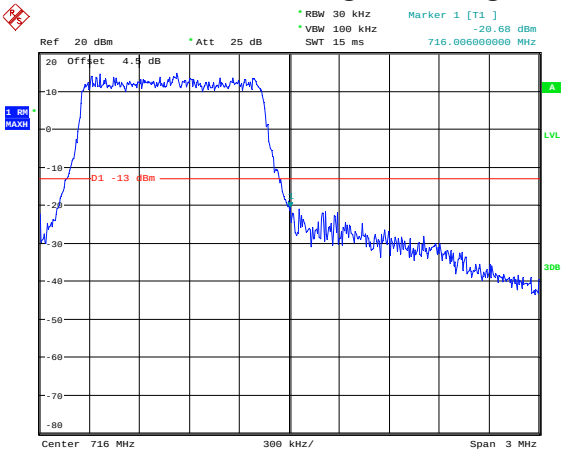
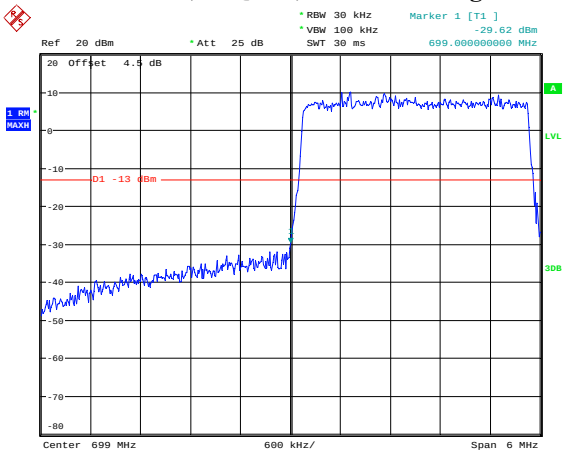
1.4M, 16QAM, Right Band Edge



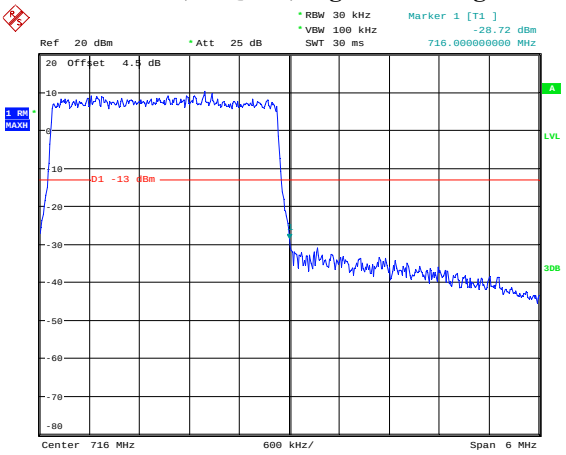
Date: 25.AUG.2021 15:25:25

3M, 16QAM, Left Band Edge



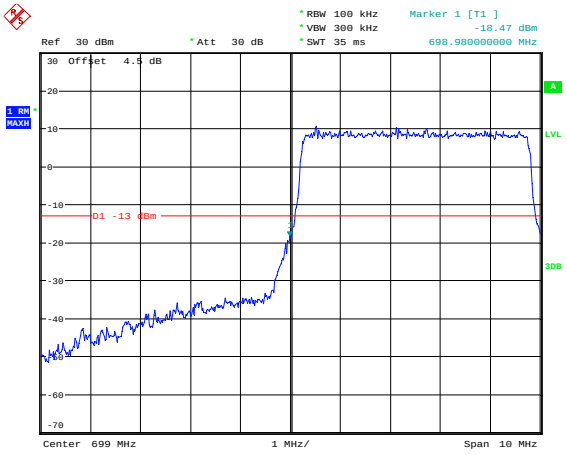
Date: 25.AUG.2021 15:26:09

3M, 16QAM, Right Band Edge



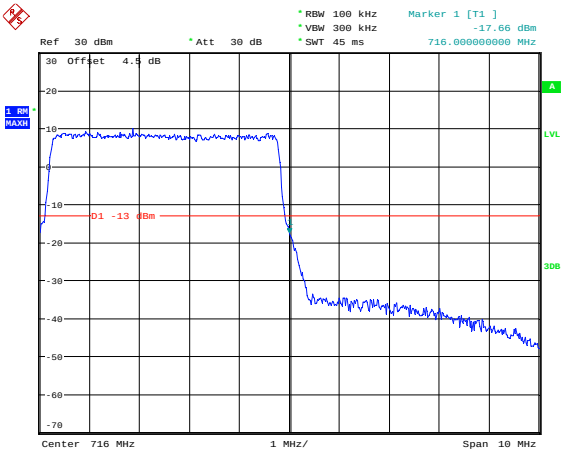
Date: 25.AUG.2021 15:26:54

5M, 16QAM, Left Band Edge



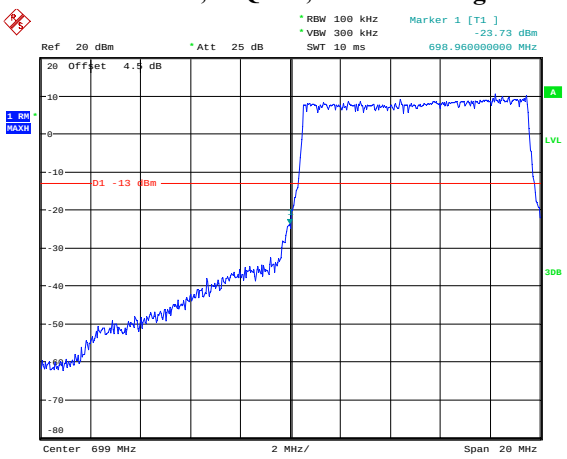
Date: 25.AUG.2021 15:28:40

5M, 16QAM, Right Band Edge



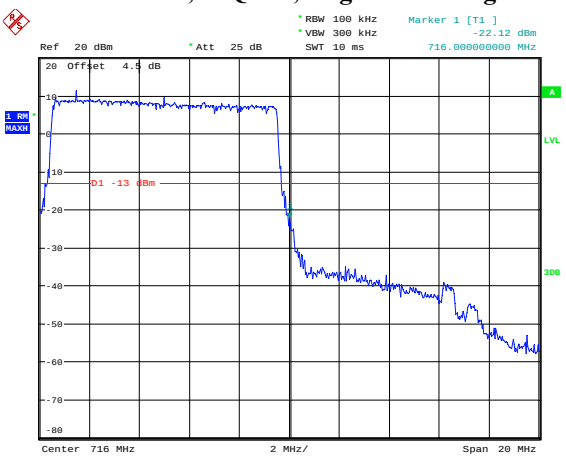
Date: 25.AUG.2021 15:30:11

10M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:31:09

10M, 16QAM, Right Band Edge



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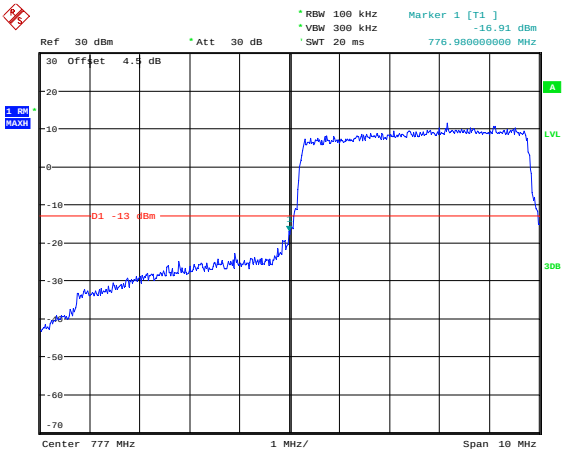
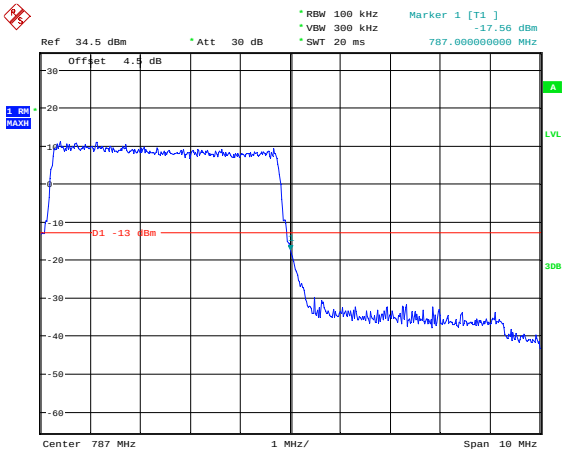
LTE Band 13:

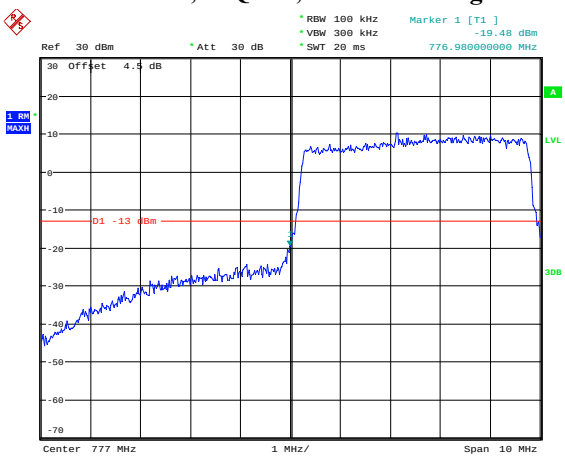
5M, QPSK, Left Band Edge



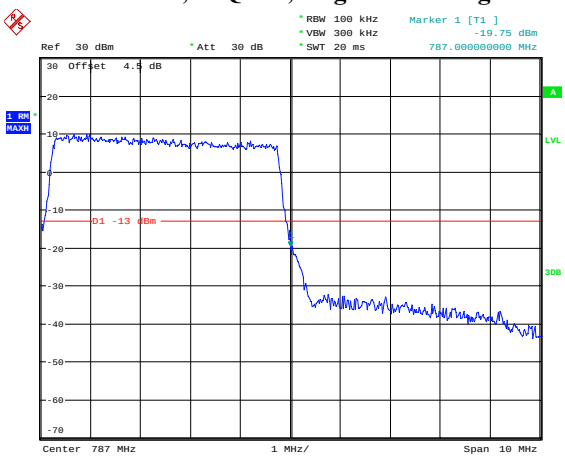
5M, QPSK, Right Band Edge



5M, 16QAM, Left Band Edge

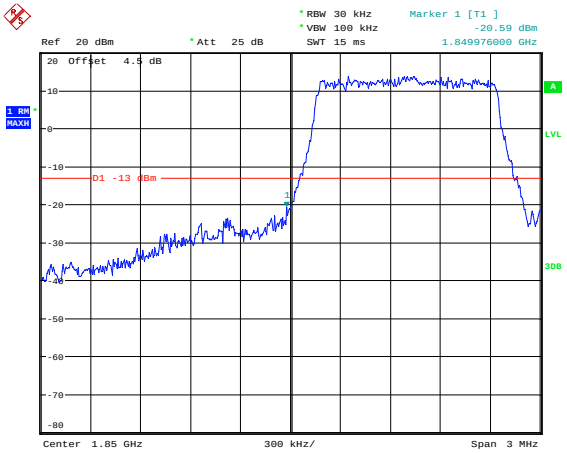


5M, 16QAM, Right Band Edge



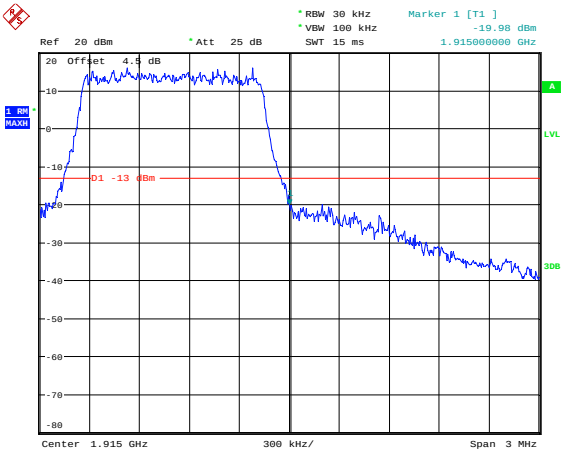
LTE Band 25:

1.4M, QPSK, Left Band Edge



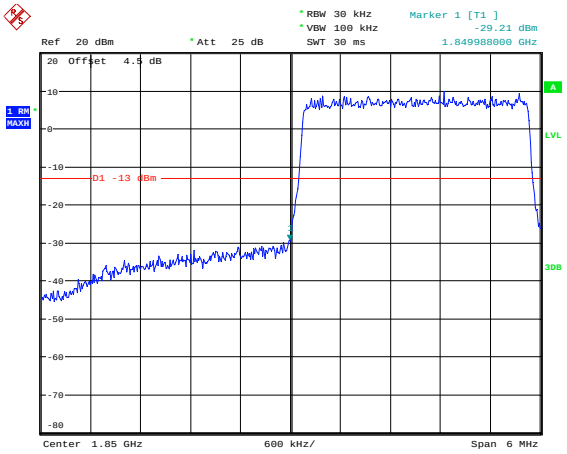
Date: 25.AUG.2021 15:39:39

1.4M, QPSK, Right Band Edge



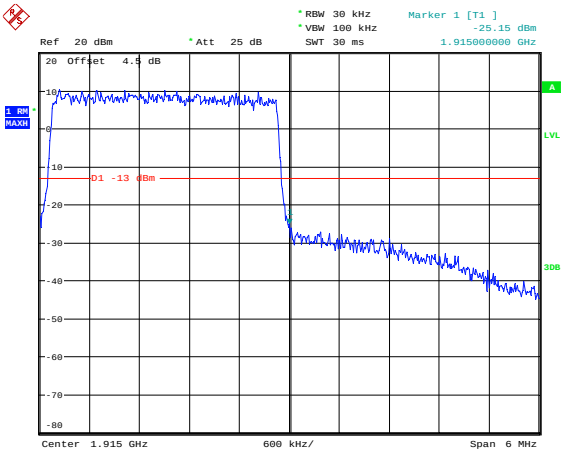
Date: 25.AUG.2021 15:40:21

3M, QPSK, Left Band Edge



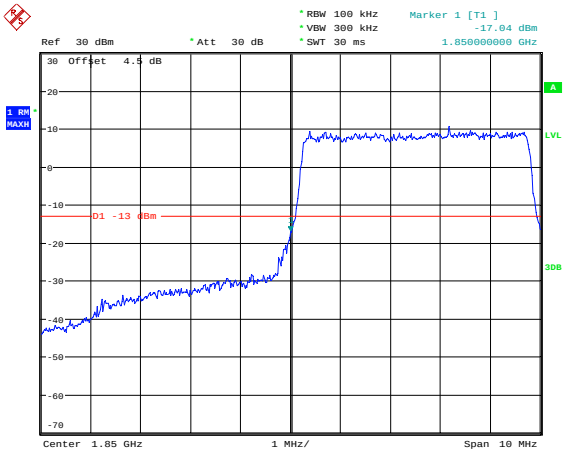
Date: 25.AUG.2021 15:41:02

3M, QPSK, Right Band Edge



Date: 25.AUG.2021 15:41:37

5M, QPSK, Left Band Edge



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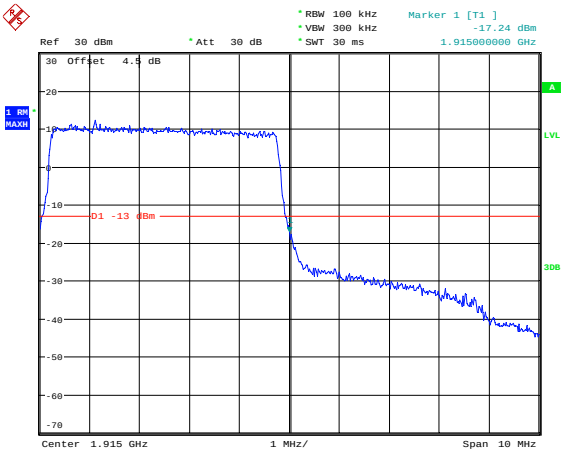
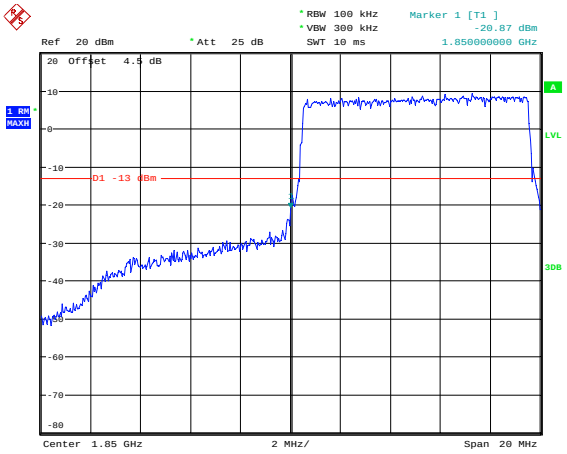
5M, QPSK, Right Band Edge



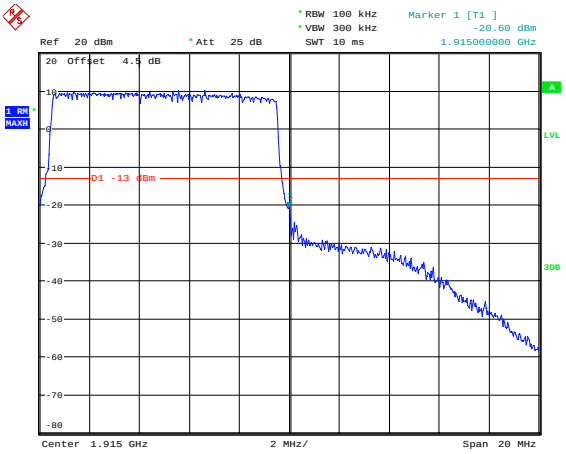
Date: 25.AUG.2021 15:43:58

10M, QPSK, Left Band Edge



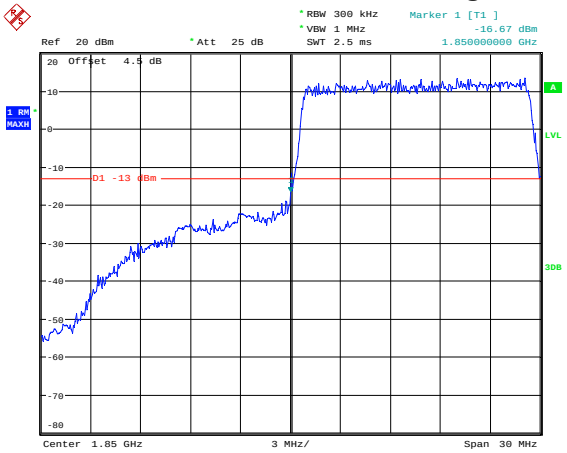
Date: 25.AUG.2021 15:44:57

10M, QPSK, Right Band Edge



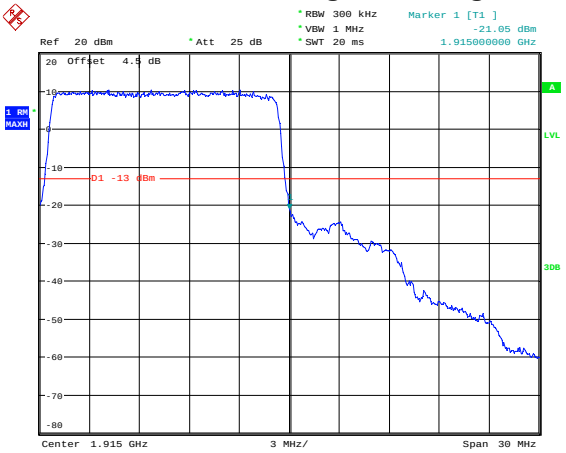
Date: 25.AUG.2021 15:45:37

15M, QPSK, Left Band Edge



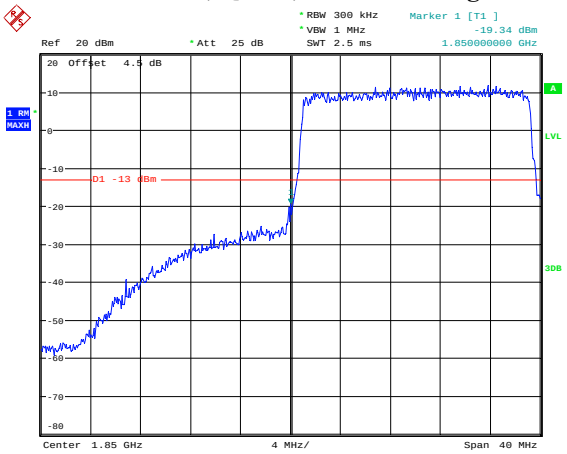
Date: 25.AUG.2021 15:46:29

15M, QPSK, Right Band Edge



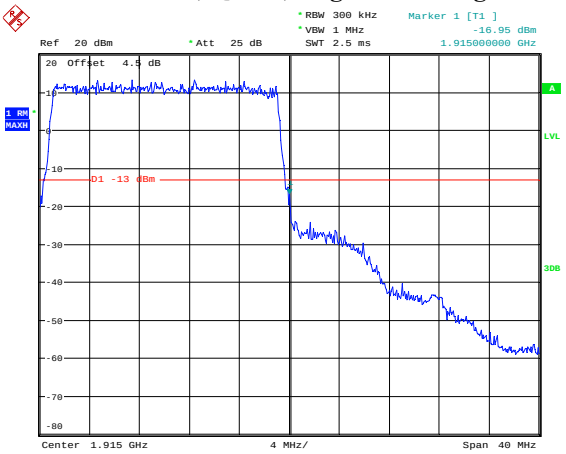
Date: 25.AUG.2021 15:47:23

20M, QPSK, Left Band Edge



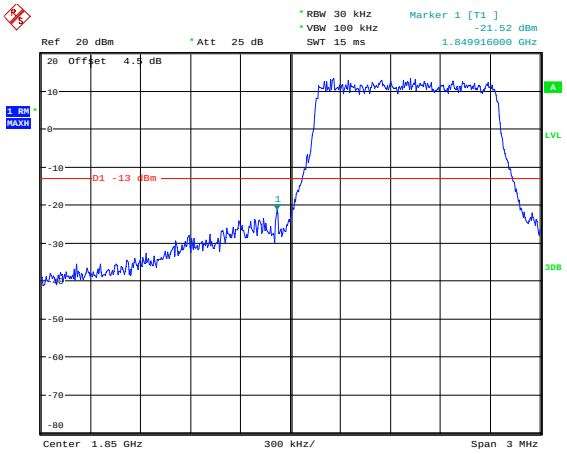
Date: 25.AUG.2021 15:48:12

20M, QPSK, Right Band Edge



Date: 25.AUG.2021 15:49:00

1.4M, 16QAM, Left Band Edge



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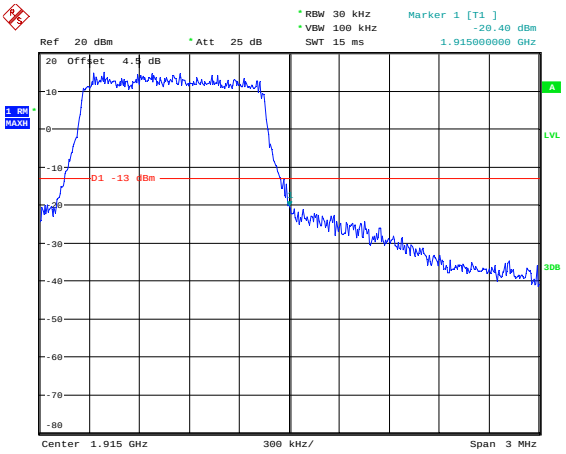
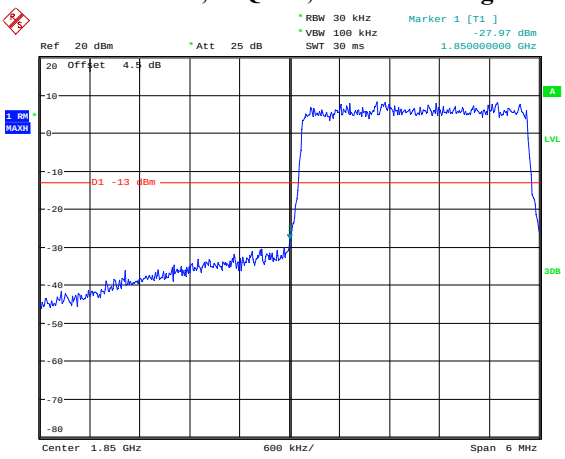
1.4M, 16QAM, Right Band Edge



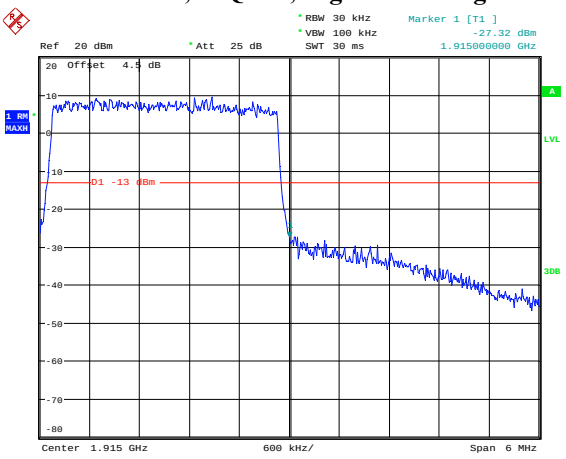
Date: 25.AUG.2021 15:40:41

3M, 16QAM, Left Band Edge



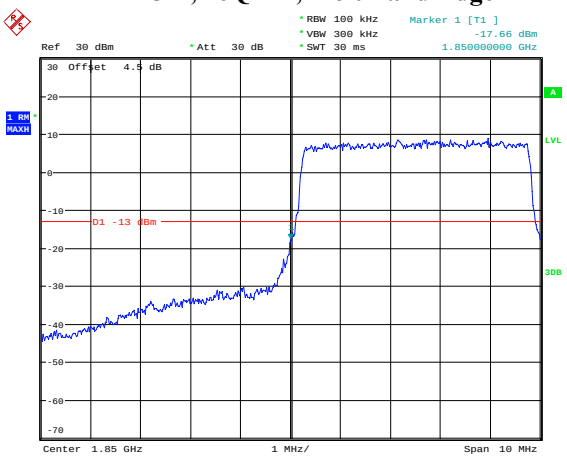
Date: 25.AUG.2021 15:41:19

3M, 16QAM, Right Band Edge



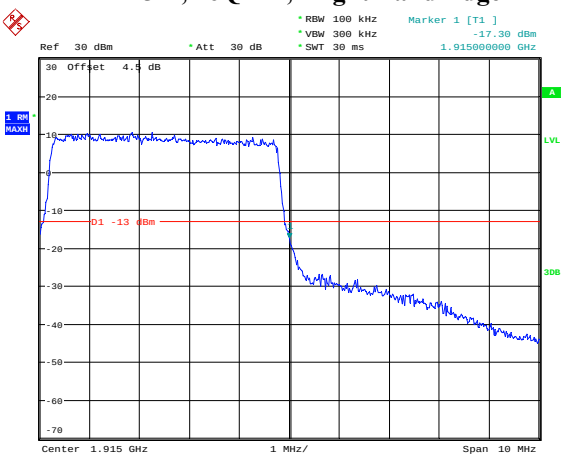
Date: 25.AUG.2021 15:41:54

5M, 16QAM, Left Band Edge



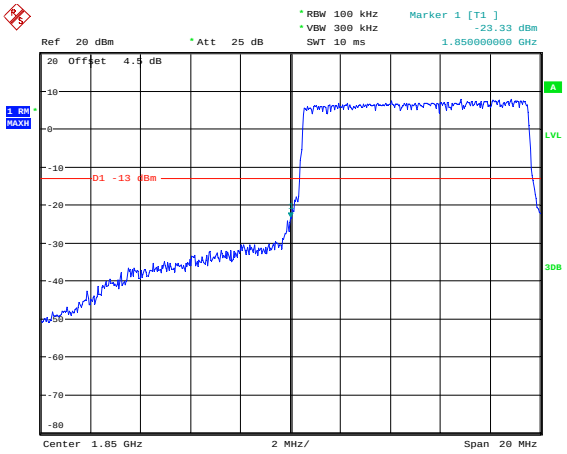
Date: 25.AUG.2021 15:43:11

5M, 16QAM, Right Band Edge



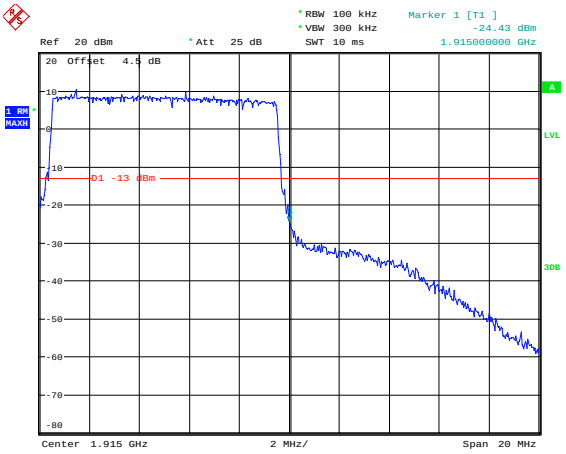
Date: 25.AUG.2021 15:44:35

10M, 16QAM, Left Band Edge



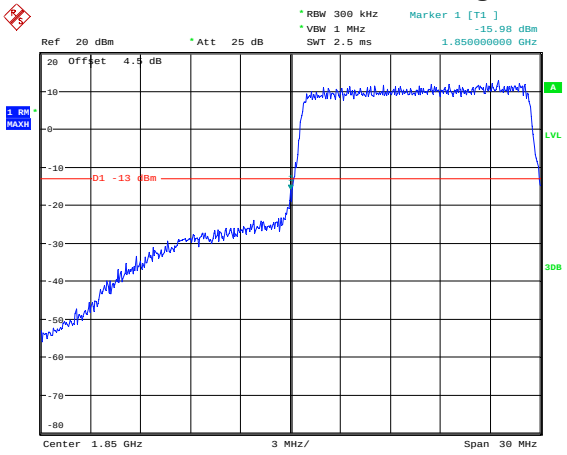
Date: 25.AUG.2021 15:45:15

10M, 16QAM, Right Band Edge



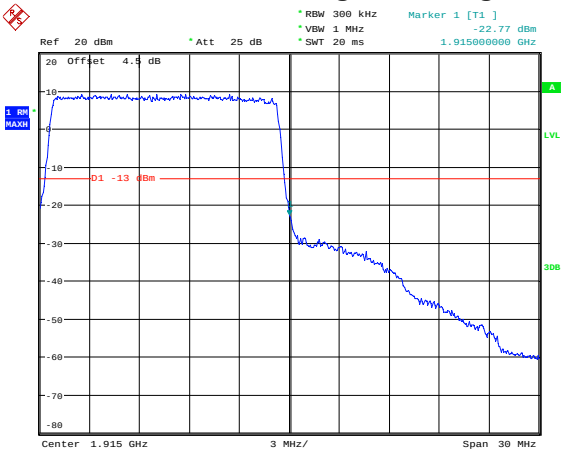
Date: 25.AUG.2021 15:46:02

15M, 16QAM, Left Band Edge



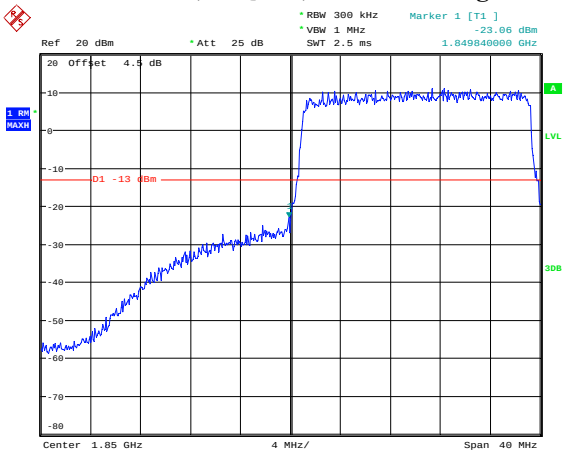
Date: 25.AUG.2021 15:46:53

15M, 16QAM, Right Band Edge



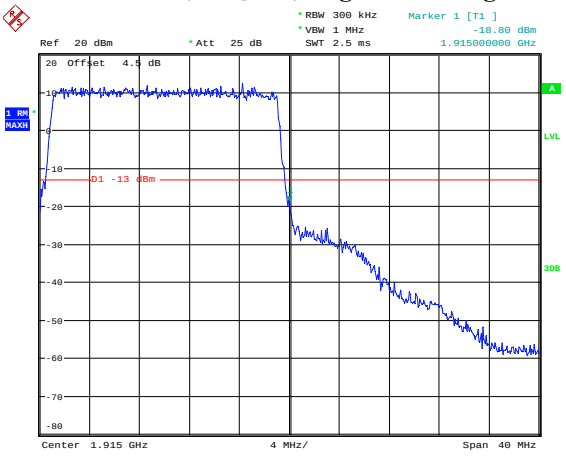
Date: 25.AUG.2021 15:47:47

20M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:48:36

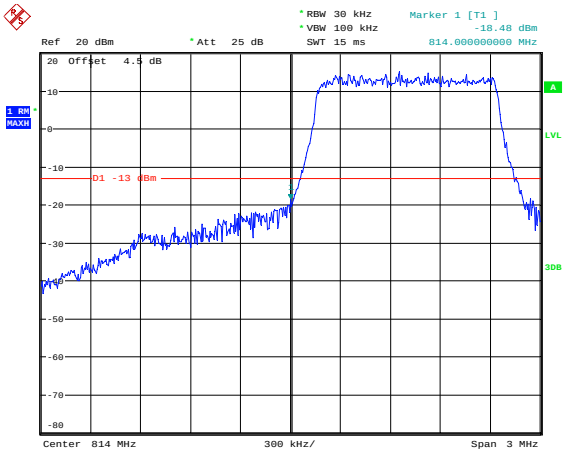
20M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:49:24

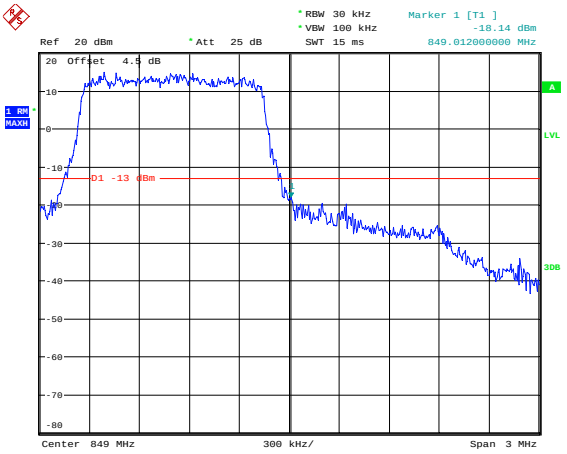
LTE Band 26:

1.4M, QPSK, Left Band Edge



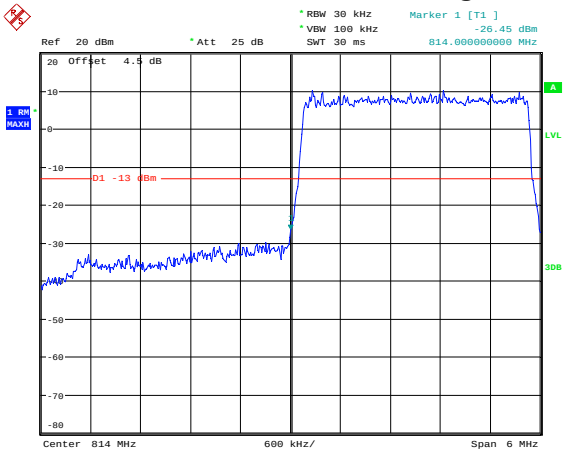
Date: 25.AUG.2021 15:49:50

1.4M, QPSK, Right Band Edge



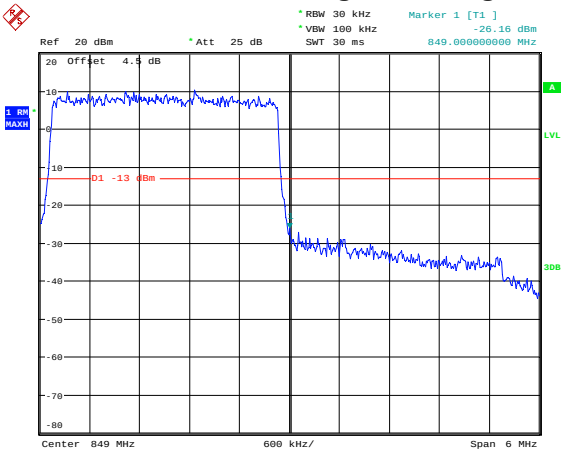
Date: 25.AUG.2021 15:50:29

3M, QPSK, Left Band Edge



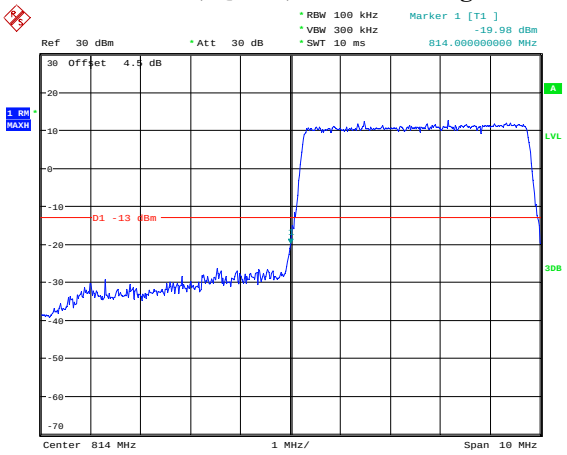
Date: 25.AUG.2021 15:51:13

3M, QPSK, Right Band Edge



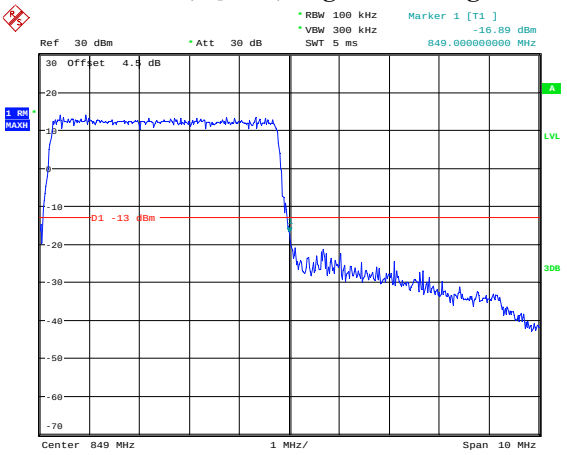
Date: 25.AUG.2021 15:51:48

5M, QPSK, Left Band Edge



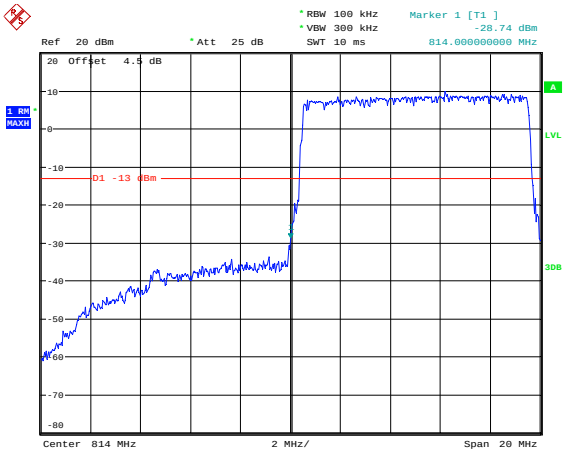
Date: 25.AUG.2021 15:52:54

5M, QPSK, Right Band Edge



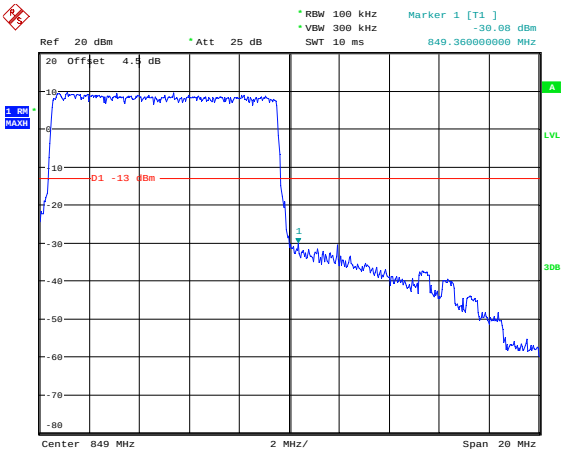
Date: 25.AUG.2021 15:54:00

10M, QPSK, Left Band Edge



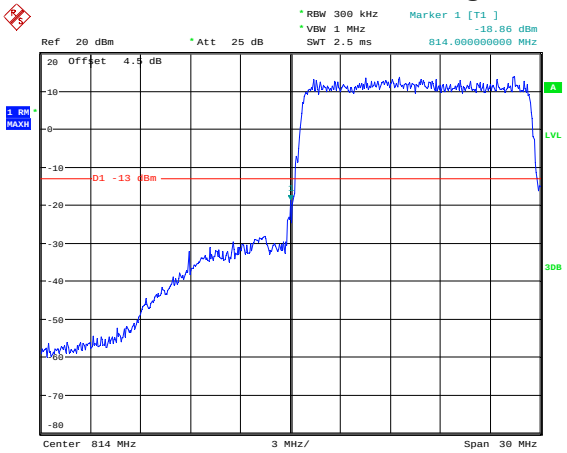
Date: 25.AUG.2021 15:54:56

10M, QPSK, Right Band Edge



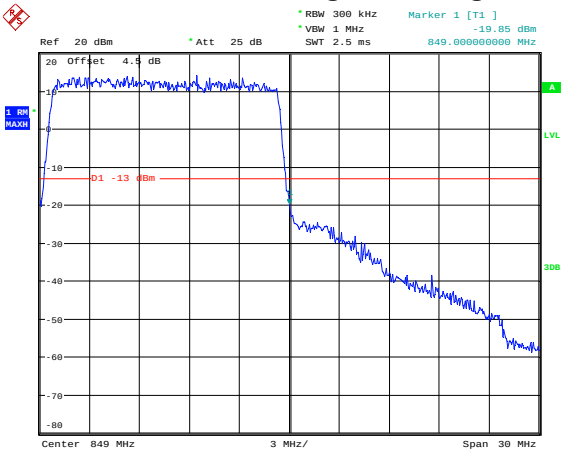
Date: 25.AUG.2021 15:55:36

15M, QPSK, Left Band Edge



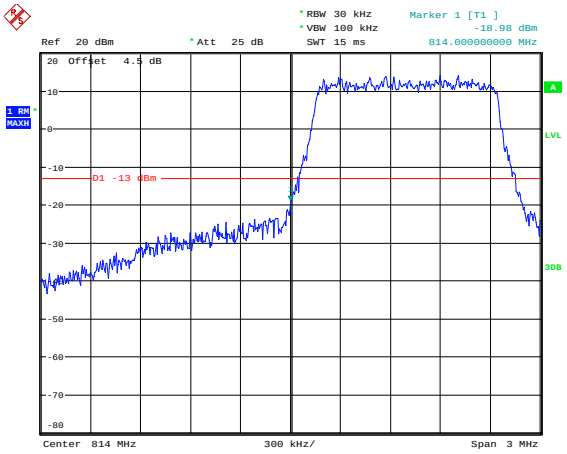
Date: 25.AUG.2021 15:56:22

15M, QPSK, Right Band Edge



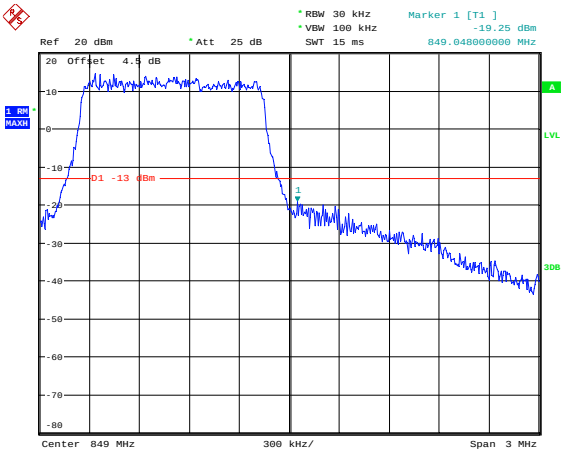
Date: 25.AUG.2021 15:57:07

1.4M, 16QAM, Left Band Edge



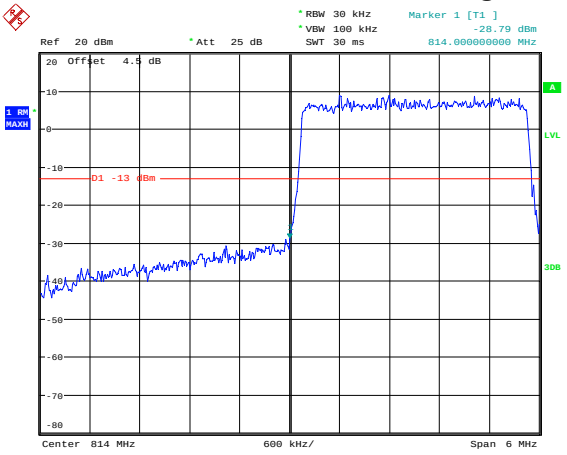
Date: 25.AUG.2021 15:50:11

1.4M, 16QAM, Right Band Edge



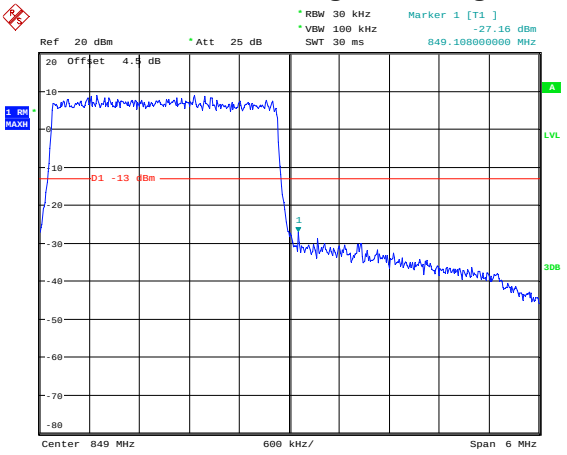
Date: 25.AUG.2021 15:50:49

3M, 16QAM, Left Band Edge



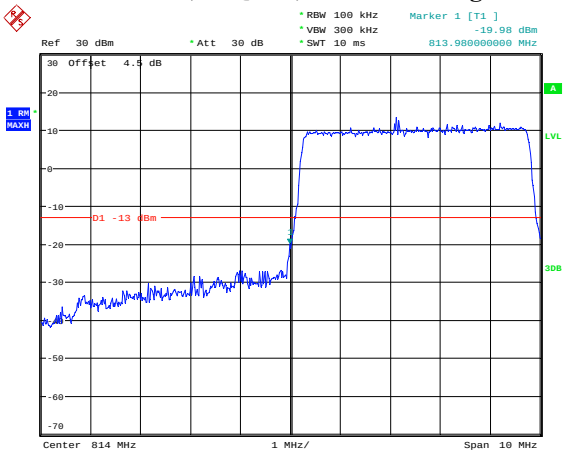
Date: 25.AUG.2021 15:51:30

3M, 16QAM, Right Band Edge



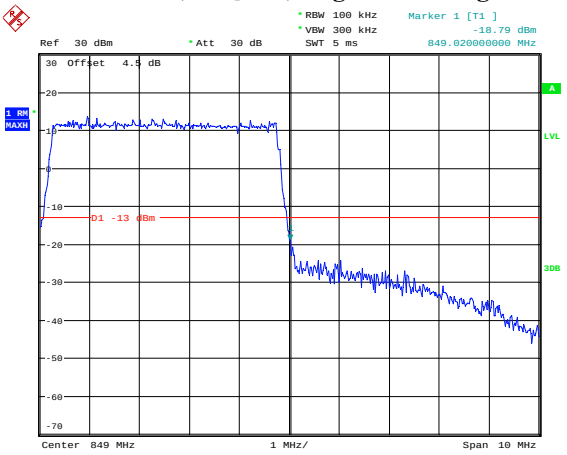
Date: 25.AUG.2021 15:52:08

5M, 16QAM, Left Band Edge



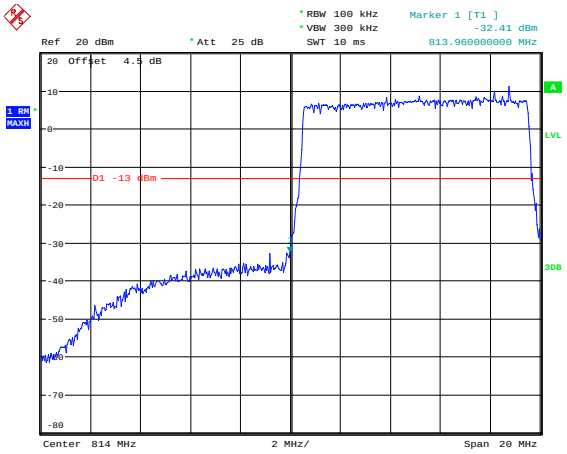
Date: 25.AUG.2021 15:53:26

5M, 16QAM, Right Band Edge



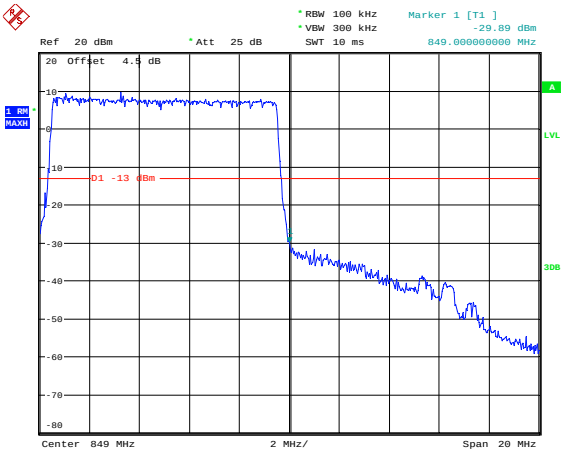
Date: 25.AUG.2021 15:54:35

10M, 16QAM, Left Band Edge



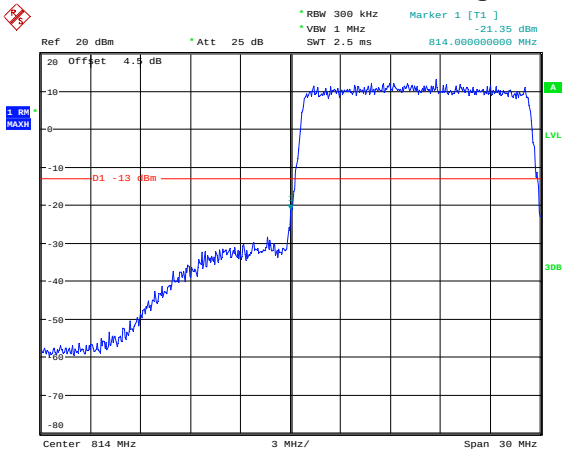
Date: 25.AUG.2021 15:55:14

10M, 16QAM, Right Band Edge



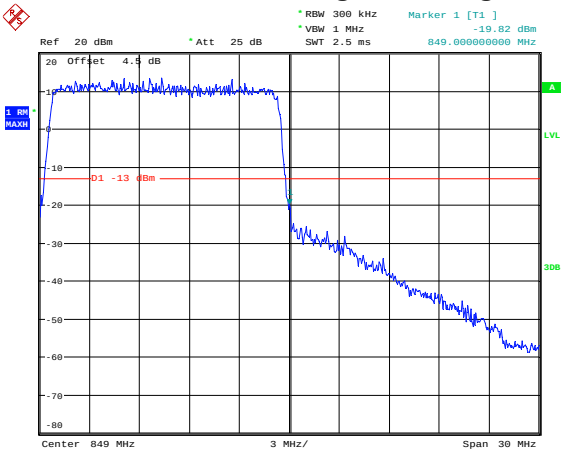
Date: 25.AUG.2021 15:55:58

15M, 16QAM, Left Band Edge



Date: 25.AUG.2021 15:56:43

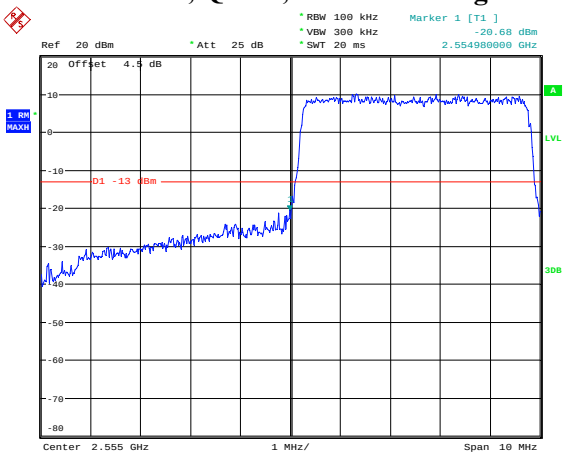
15M, 16QAM, Right Band Edge



Date: 25.AUG.2021 15:57:28

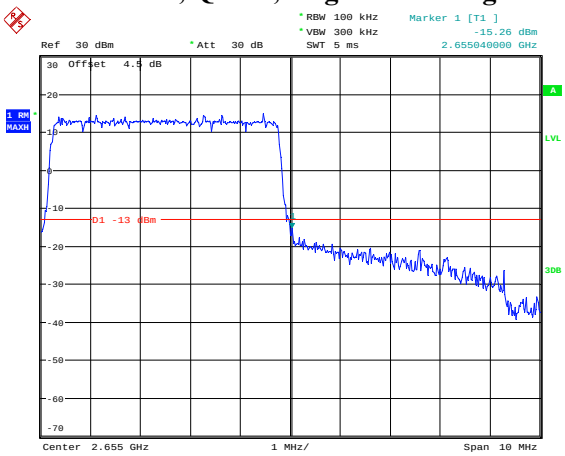
LTE Band 41:

5M, QPSK, Left Band Edge



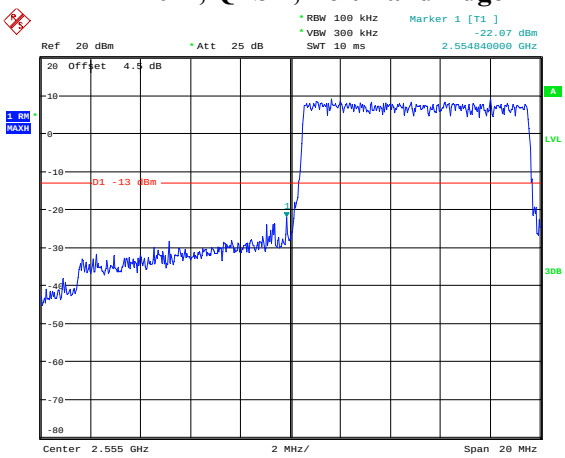
Date: 31.AUG.2021 10:22:57

5M, QPSK, Right Band Edge



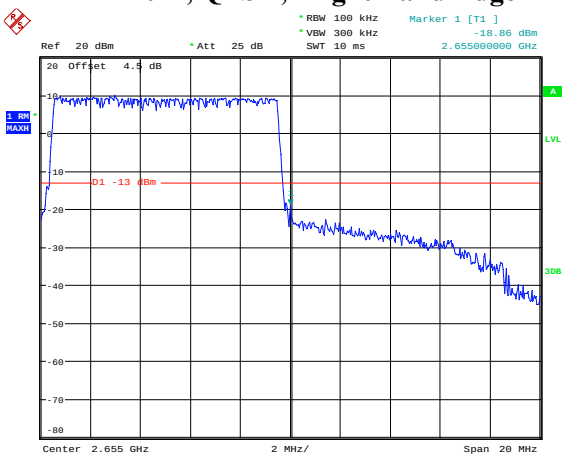
Date: 31.AUG.2021 10:24:20

10M, QPSK, Left Band Edge



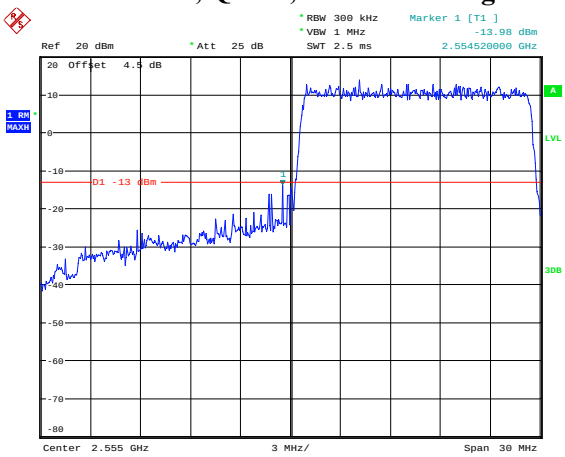
Date: 31.AUG.2021 10:25:23

10M, QPSK, Right Band Edge



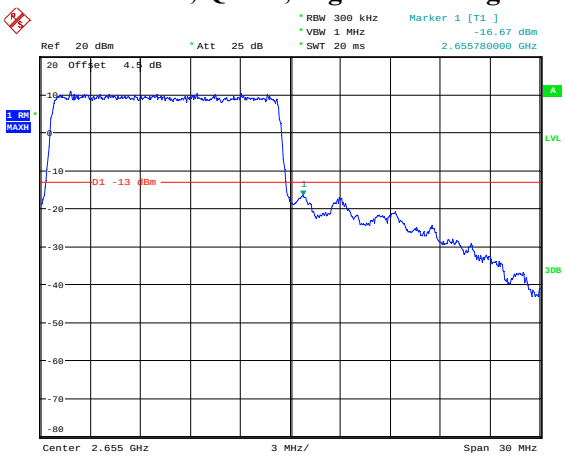
Date: 31.AUG.2021 10:26:09

15M, QPSK, Left Band Edge



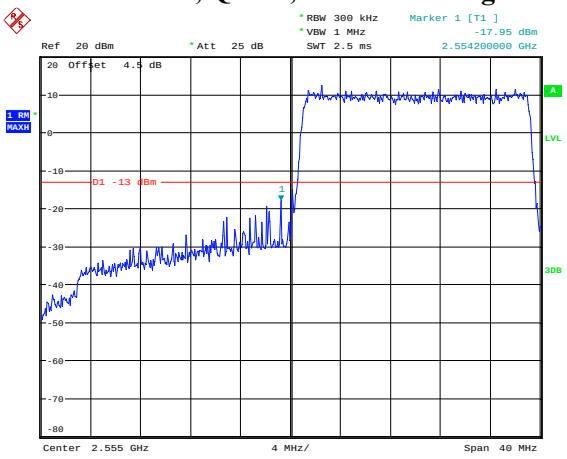
Date: 31.AUG.2021 10:26:57

15M, QPSK, Right Band Edge



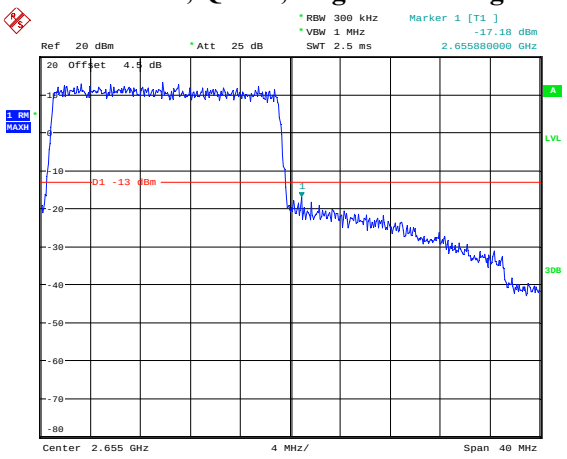
Date: 31.AUG.2021 10:27:55

20M, QPSK, Left Band Edge



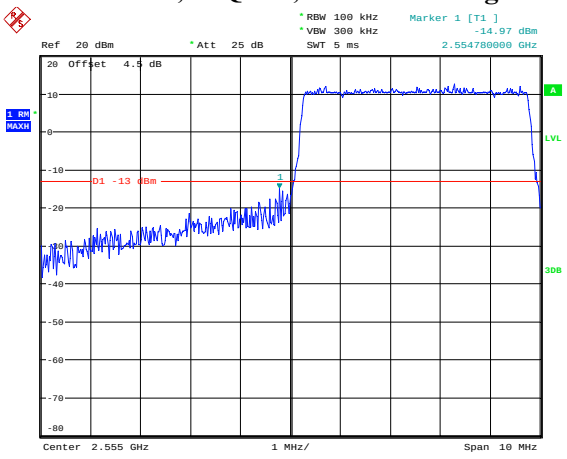
Date: 31.AUG.2021 10:28:53

20M, QPSK, Right Band Edge



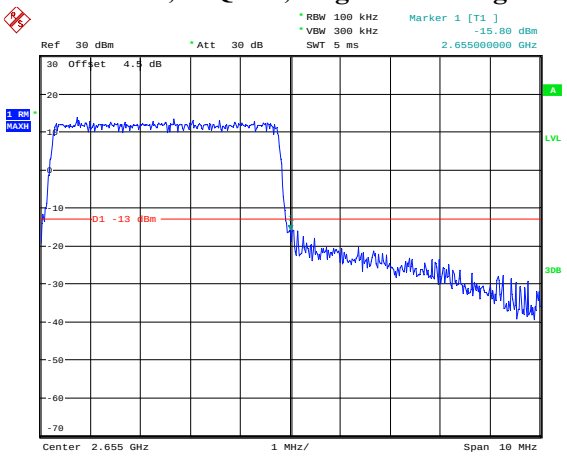
Date: 31.AUG.2021 10:29:40

5M, 16QAM, Left Band Edge



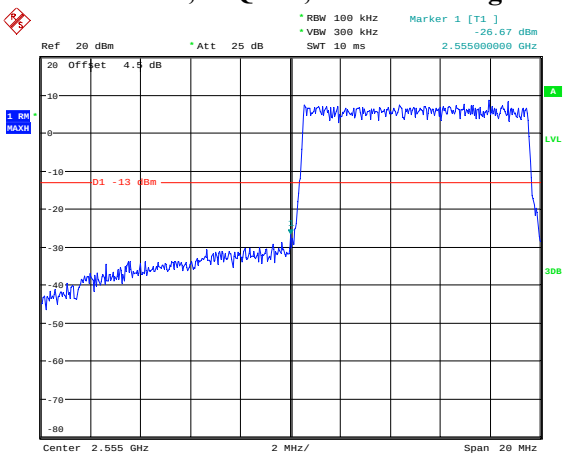
Date: 31.AUG.2021 10:23:47

5M, 16QAM, Right Band Edge



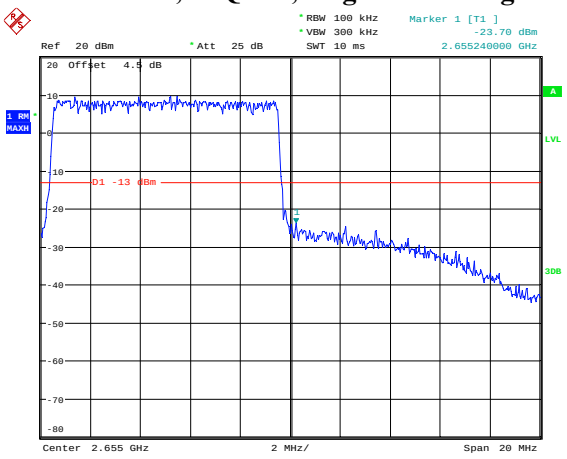
Date: 31.AUG.2021 10:24:55

10M, 16QAM, Left Band Edge



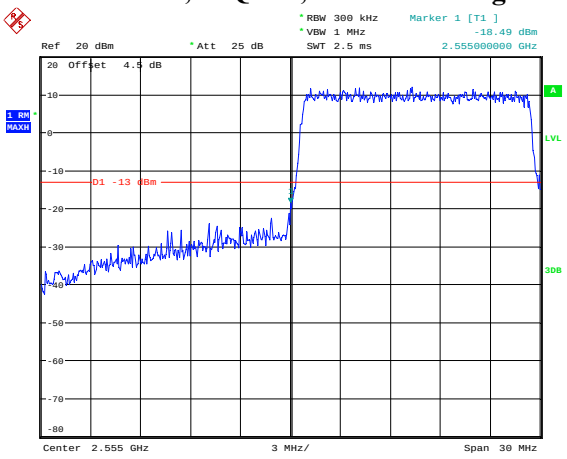
Date: 31.AUG.2021 10:25:44

10M, 16QAM, Right Band Edge



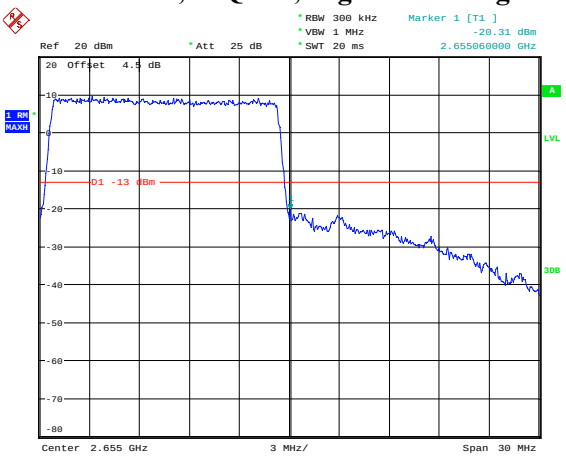
Date: 31.AUG.2021 10:26:30

15M, 16QAM, Left Band Edge



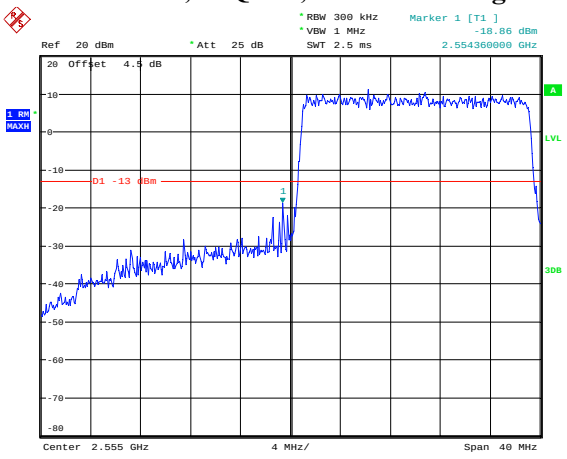
Date: 31.AUG.2021 10:27:20

15M, 16QAM, Right Band Edge



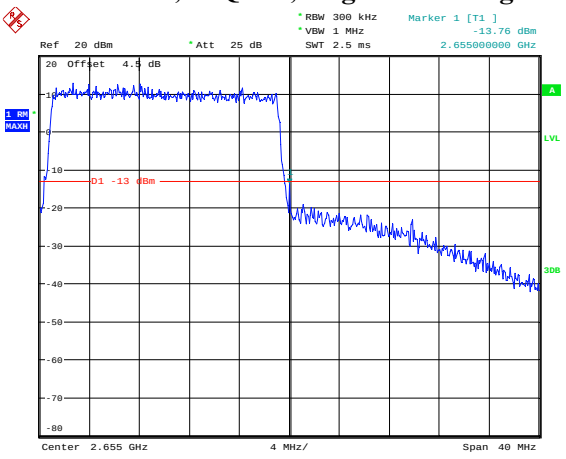
Date: 31.AUG.2021 10:28:23

20M, 16QAM, Left Band Edge



Date: 31.AUG.2021 10:29:16

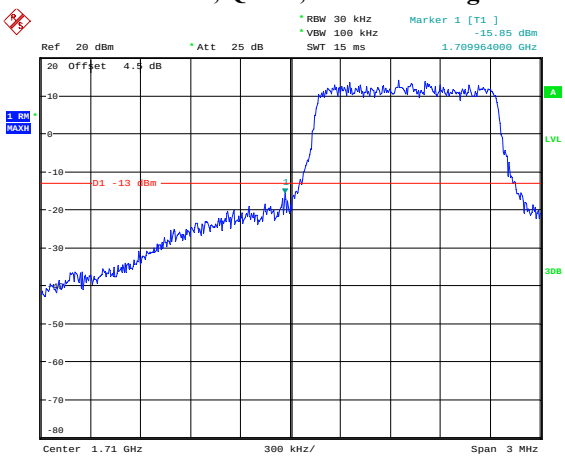
20M, 16QAM, Right Band Edge



Date: 31.AUG.2021 10:30:07

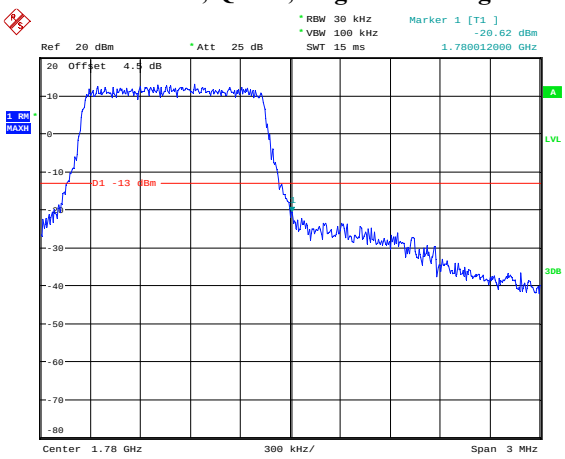
LTE Band 66:

1.4M, QPSK, Left Band Edge



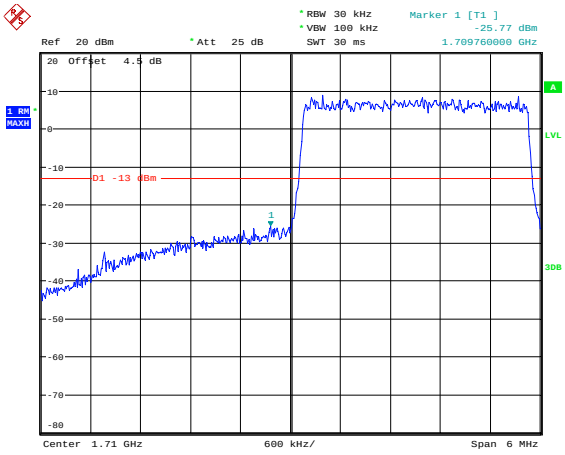
Date: 25.AUG.2021 15:57:51

1.4M, QPSK, Right Band Edge



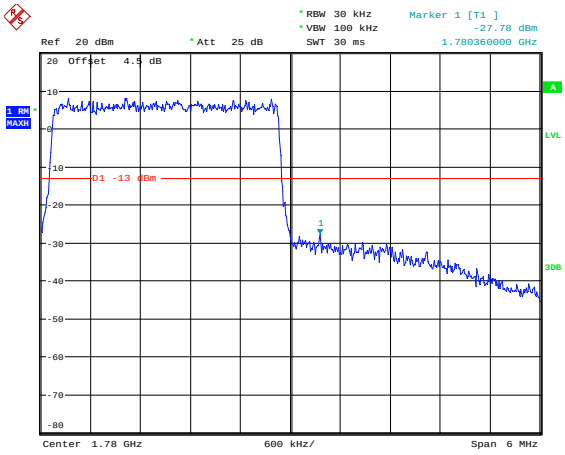
Date: 25.AUG.2021 15:58:36

3M, QPSK, Left Band Edge



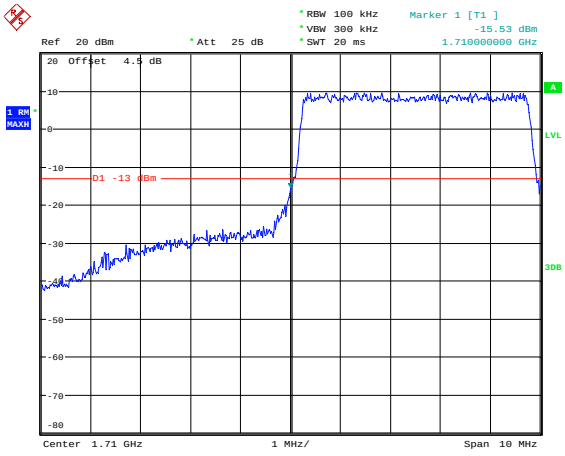
Date: 25.AUG.2021 15:59:23

3M, QPSK, Right Band Edge



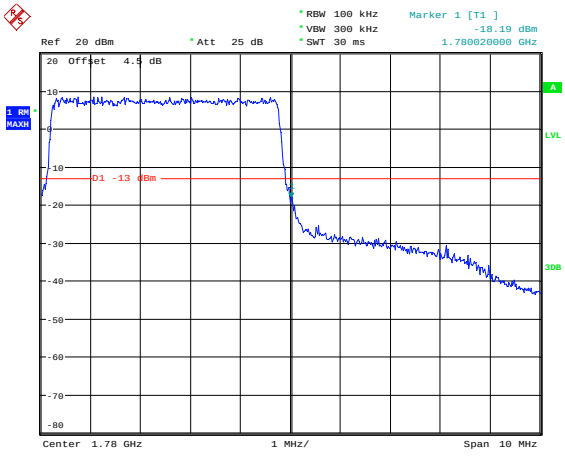
Date: 25.AUG.2021 15:59:58

5M, QPSK, Left Band Edge



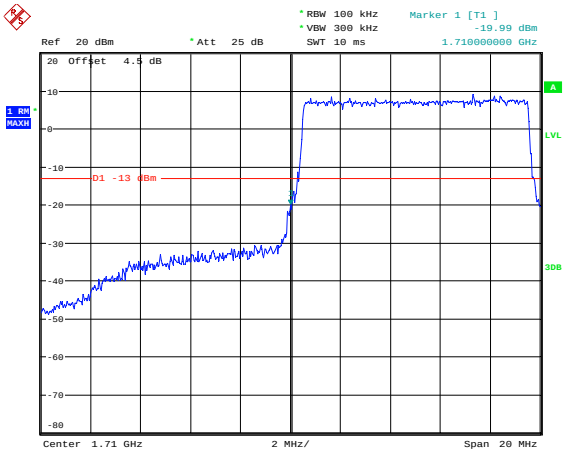
Date: 25.AUG.2021 16:07:56

5M, QPSK, Right Band Edge



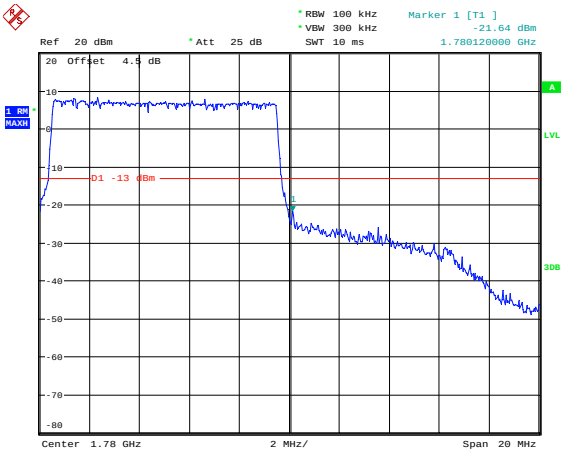
Date: 25.AUG.2021 16:08:54

10M, QPSK, Left Band Edge



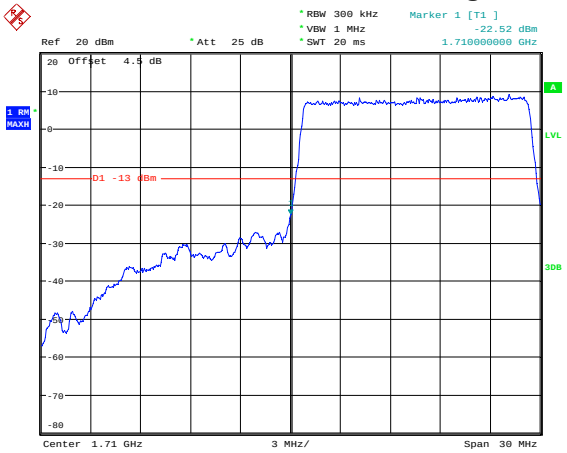
Date: 25.AUG.2021 16:09:45

10M, QPSK, Right Band Edge



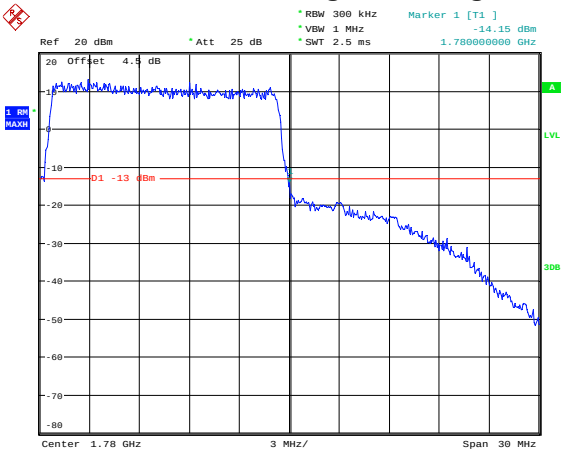
Date: 25.AUG.2021 16:10:25

15M, QPSK, Left Band Edge



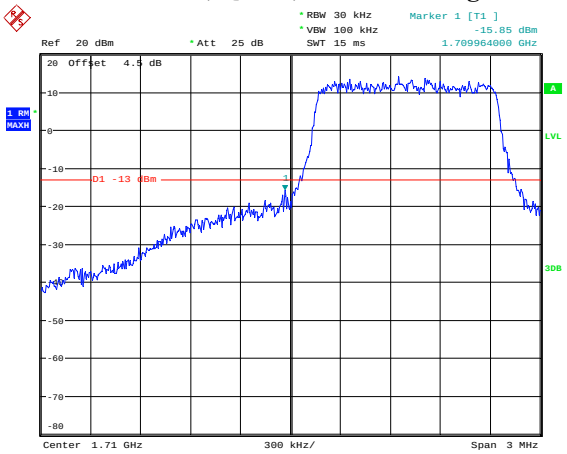
Date: 25.AUG.2021 16:11:19

15M, QPSK, Right Band Edge



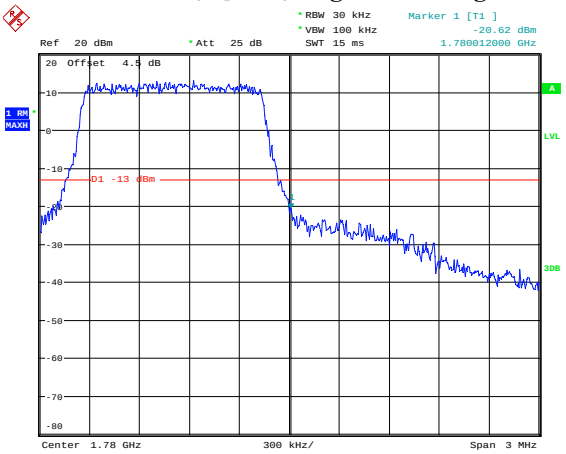
Date: 25.AUG.2021 16:12:05

20M, QPSK, Left Band Edge



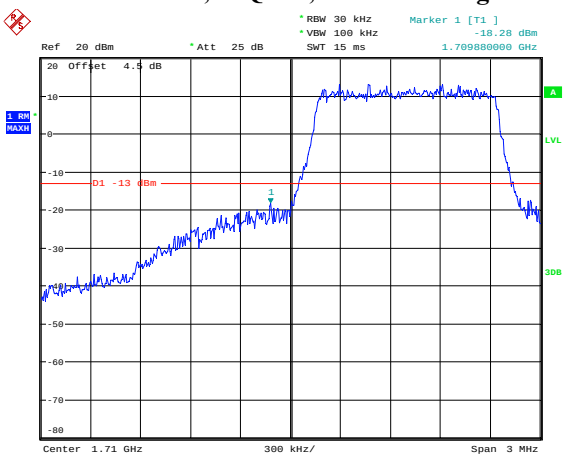
Date: 25.AUG.2021 15:57:51

20M, QPSK, Right Band Edge



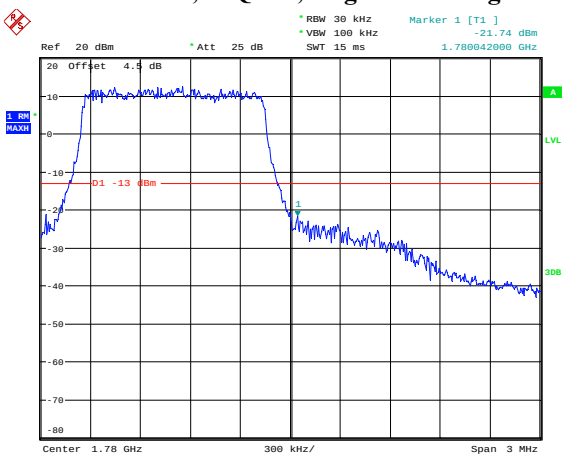
Date: 25.AUG.2021 15:58:36

1.4M, 16QAM, Left Band Edge



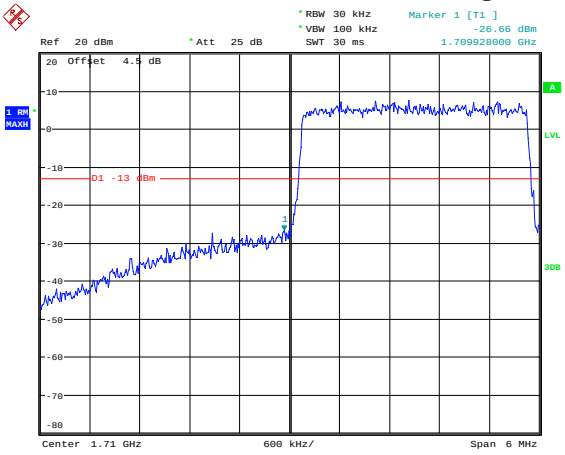
Date: 25.AUG.2021 15:58:15

1.4M, 16QAM, Right Band Edge



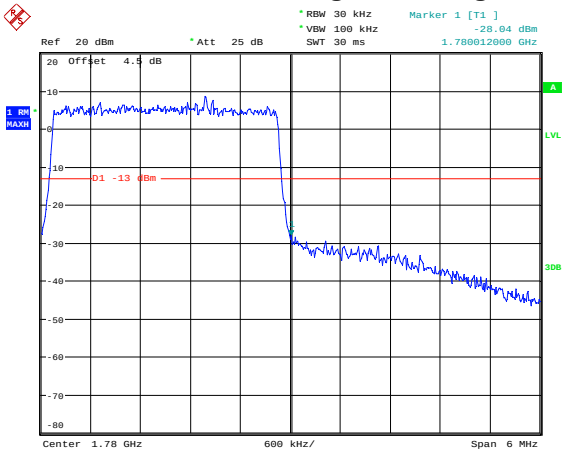
Date: 25.AUG.2021 15:58:59

3M, 16QAM, Left Band Edge



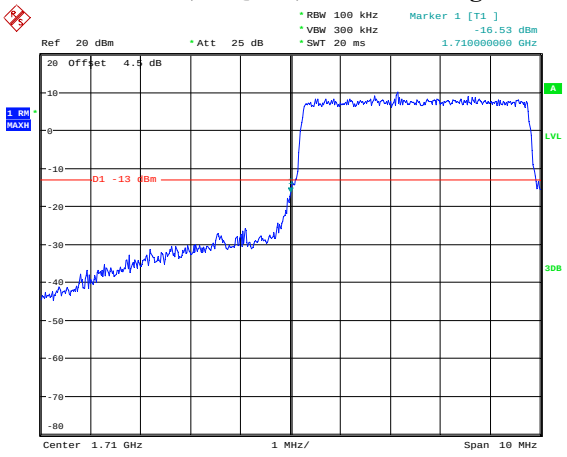
Date: 25.AUG.2021 15:59:40

3M, 16QAM, Right Band Edge



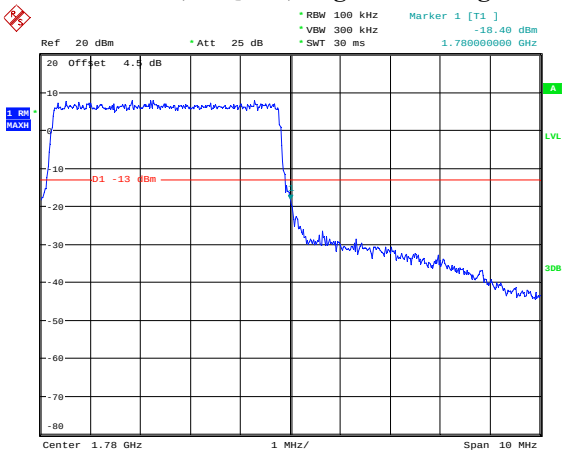
Date: 25.AUG.2021 16:00:18

5M, 16QAM, Left Band Edge



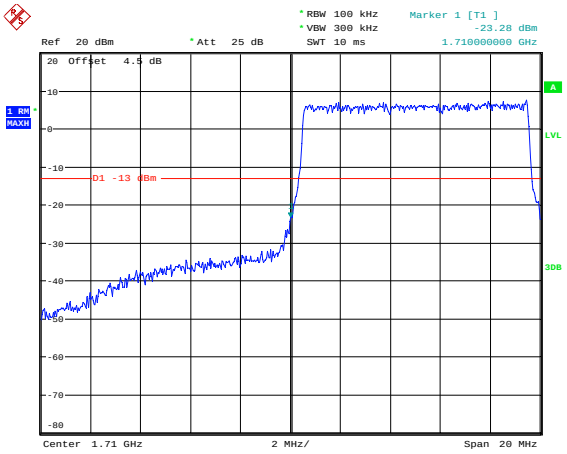
Date: 25.AUG.2021 16:08:26

5M, 16QAM, Right Band Edge



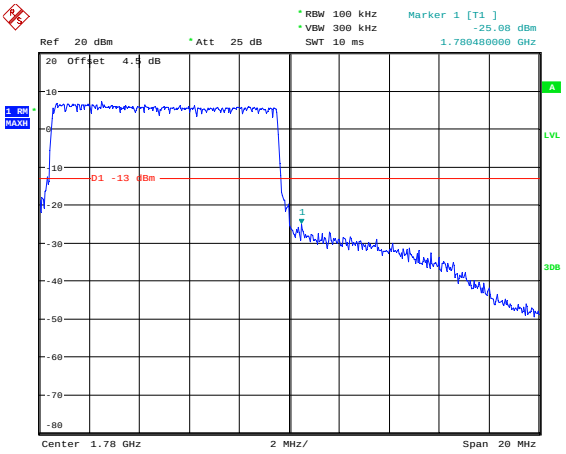
Date: 25.AUG.2021 16:09:18

10M, 16QAM, Left Band Edge



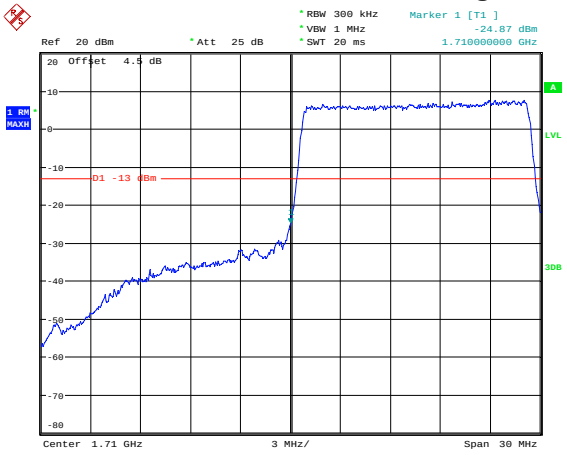
Date: 25.AUG.2021 16:10:03

10M, 16QAM, Right Band Edge



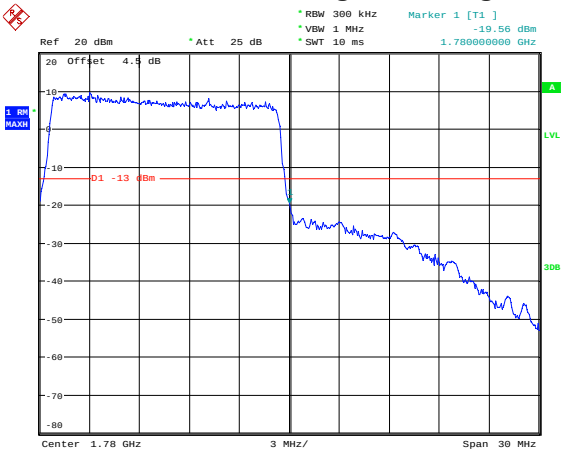
Date: 25.AUG.2021 16:10:47

15M, 16QAM, Left Band Edge



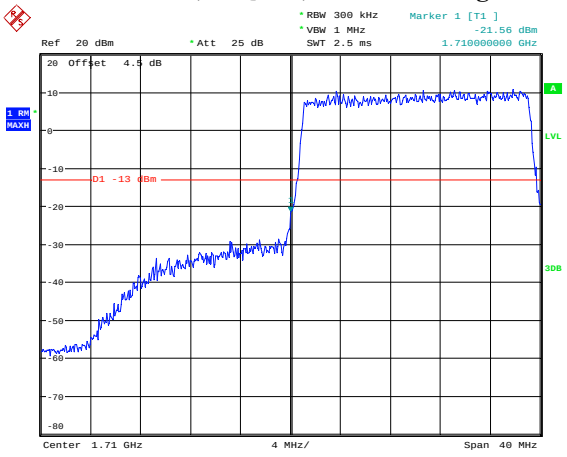
Date: 25.AUG.2021 16:11:43

15M, 16QAM, Right Band Edge



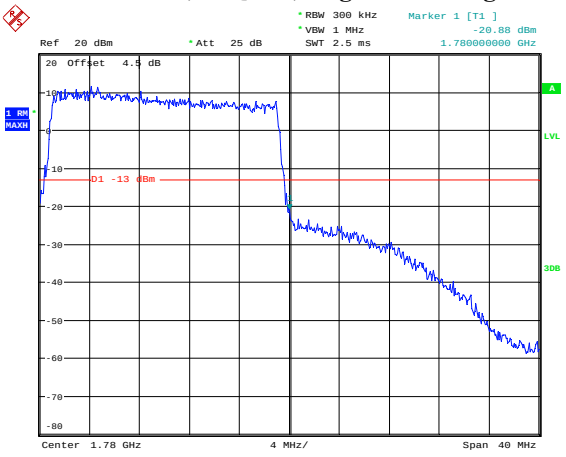
Date: 25.AUG.2021 16:15:52

20M, 16QAM, Left Band Edge



Date: 25.AUG.2021 16:16:44

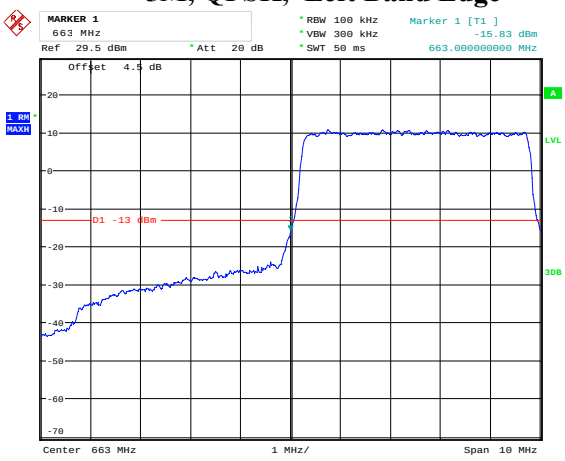
20M, 16QAM, Right Band Edge



Date: 25.AUG.2021 16:17:32

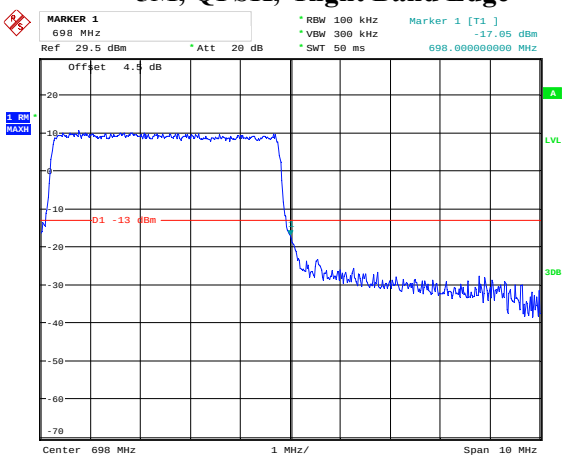
LTE Band 71:

5M, QPSK, Left Band Edge



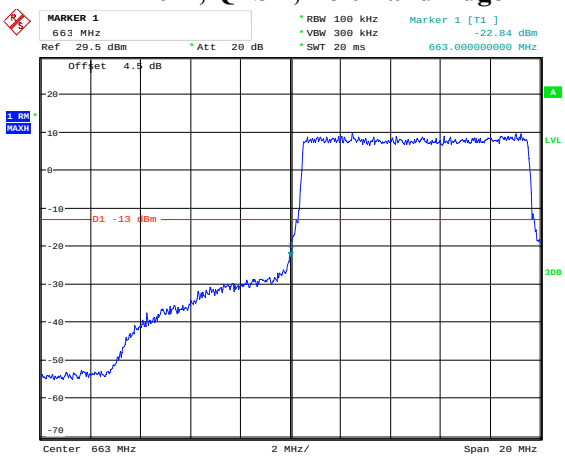
Date: 30.AUG.2021 15:38:12

5M, QPSK, Right Band Edge



Date: 30.AUG.2021 15:39:43

10M, QPSK, Left Band Edge



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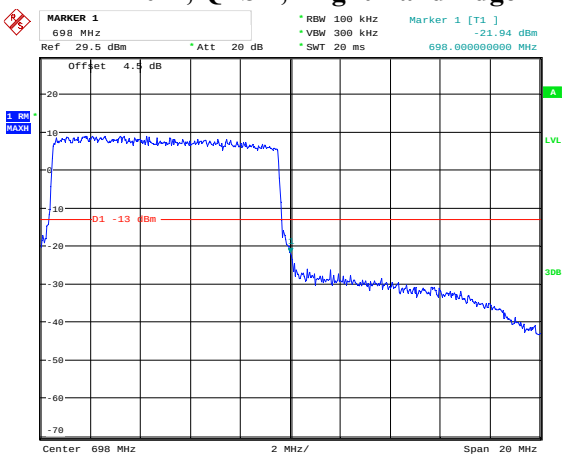
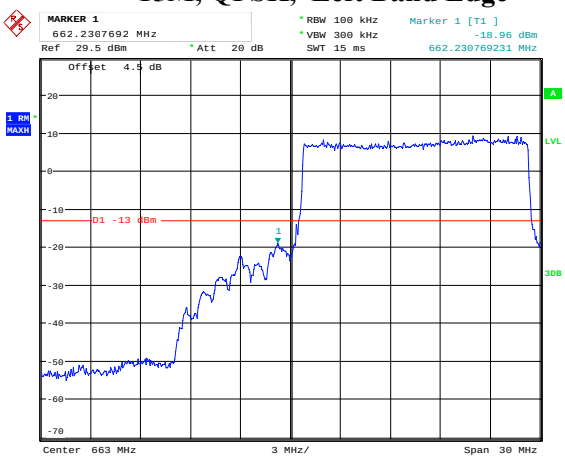
10M, QPSK, Right Band Edge



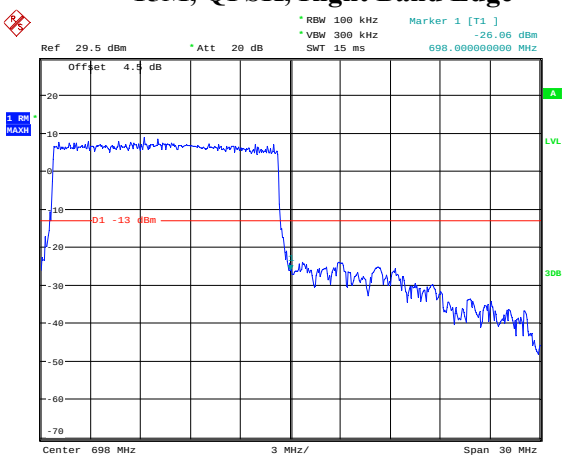
Date: 30.AUG.2021 15:43:27

15M, QPSK, Left Band Edge



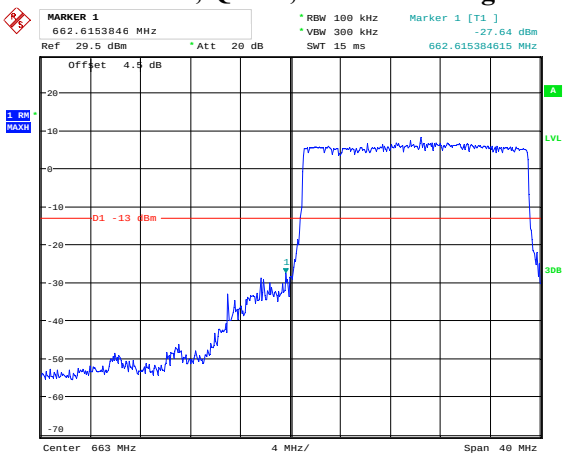
Date: 30.AUG.2021 15:47:45

15M, QPSK, Right Band Edge



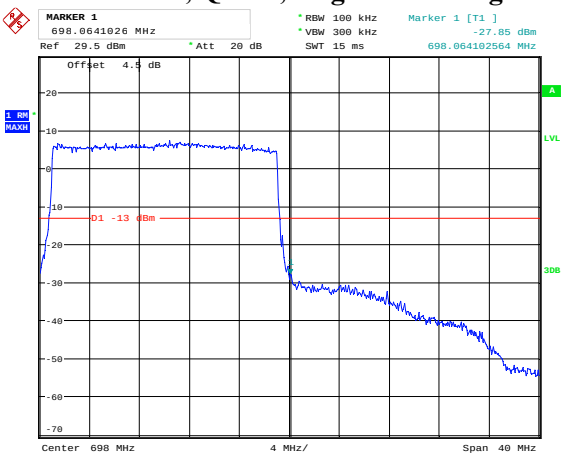
Date: 30.AUG.2021 15:45:23

20M, QPSK, Left Band Edge



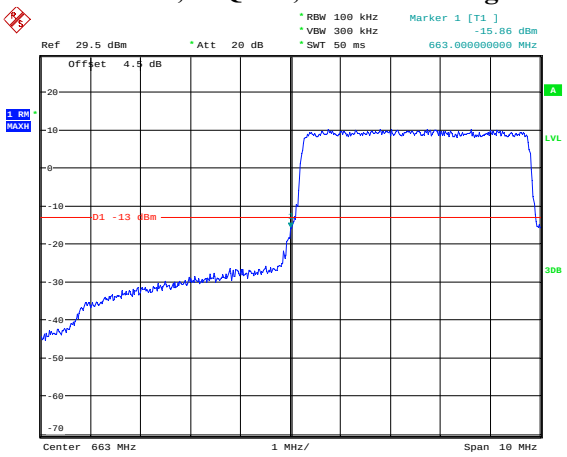
Date: 30.AUG.2021 15:49:11

20M, QPSK, Right Band Edge



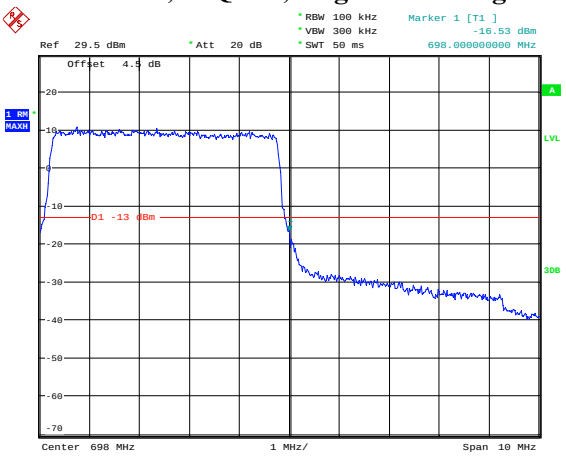
Date: 30.AUG.2021 15:53:05

5M, 16QAM, Left Band Edge



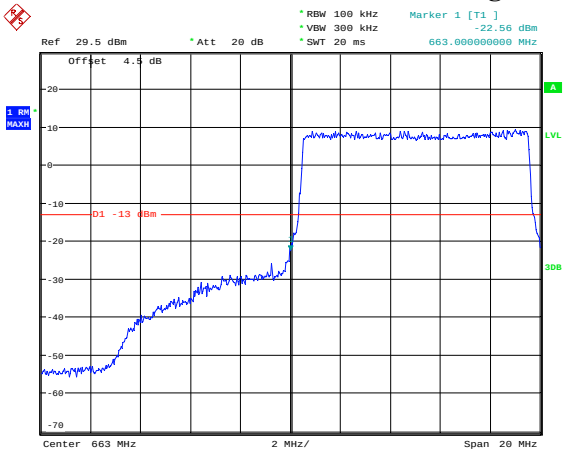
Date: 30.AUG.2021 15:38:36

5M, 16QAM, Right Band Edge



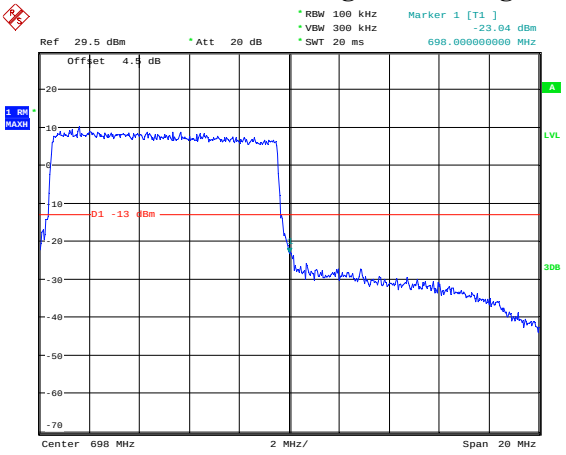
Date: 30.AUG.2021 15:40:08

10M, 16QAM, Left Band Edge



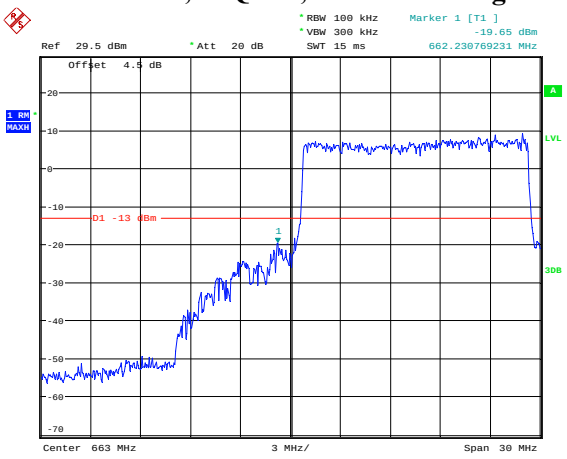
Date: 30.AUG.2021 15:42:08

10M, 16QAM, Right Band Edge



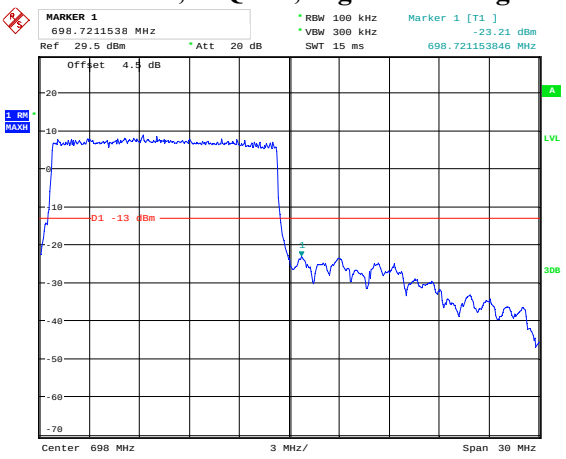
Date: 30.AUG.2021 15:43:45

15M, 16QAM, Left Band Edge



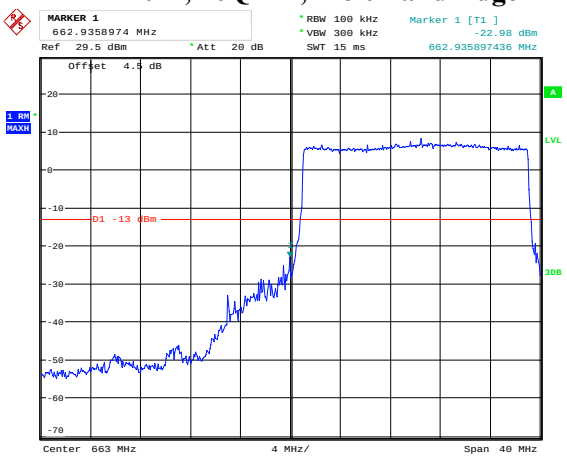
Date: 30.AUG.2021 15:48:10

15M, 16QAM, Right Band Edge



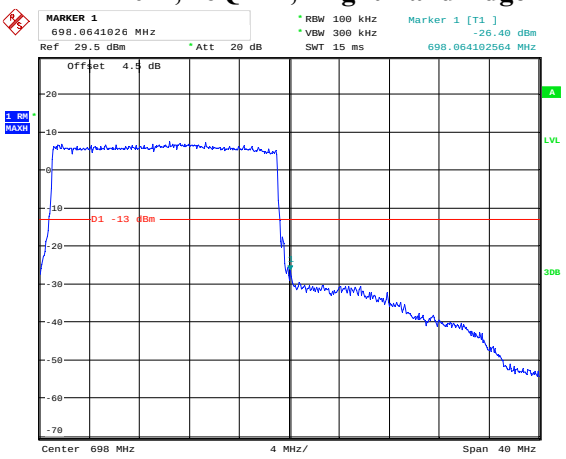
Date: 30.AUG.2021 15:46:27

20M, 16QAM, Left Band Edge



Date: 30.AUG.2021 15:49:37

20M, 16QAM, Right Band Edge



Date: 30.AUG.2021 15:53:26

FCC §2.1055, §22.355 & §24.235 & §27.54& §90.213 - FREQUENCY STABILITY

Applicable Standard

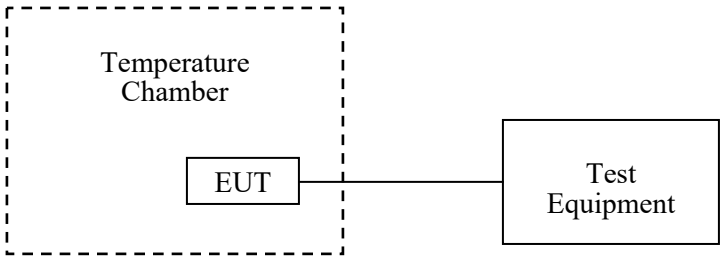
FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54, §90.213

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2021-07-07	2022-07-07
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	147473	2020-09-23	2021-09-22
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
E-Microwave	Two-way Spliter	ODP-1-6-2S	OE0120142	Each Time	N/A
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-12	2021-09-12
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2021-03-10	2022-03-09
UNI-T	Multimeter	UT39A	M130199938	2021-07-24	2022-07-24
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A

**** Statement of Traceability:*** *Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data

Environmental Conditions

Temperature:	27.2~28.6 °C
Relative Humidity:	52~71 %
ATM Pressure:	100.2~100.6kPa
Tester:	Thehsy Xie
Test Date:	2021-08-25~2021-09-03

Test Result: Compliance.

GMSK, Middle Channel, f_c = 836.6 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	-9	-0.01076	2.5
-20		-6	-0.00717	
-10		8	0.00956	
0		3	0.00359	
10		7	0.00837	
20		3	0.00359	
30		-1	-0.00120	
40		-5	-0.00598	
50		4	0.00478	
20	3.6	11	0.01315	
20	4.4	5	0.00598	

GMSK, Middle Channel, f_c = 1880 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-2	-0.00106	Pass
-20		3	0.00160	
-10		1	0.00053	
0		-5	-0.00266	
10		9	0.00479	
20		8	0.00426	
30		-4	-0.00213	
40		6	0.00319	
50		3	0.00160	
20	3.6	-8	-0.00426	
20	4.4	4	0.00213	

8PSK, Middle Channel, f_c = 836.6MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	2	0.00239	2.5
-20		-8	-0.00956	
-10		-3	-0.00359	
0		7	0.00837	
10		4	0.00478	
20		11	0.01315	
30		-11	-0.01315	
40		-7	-0.00837	
50		6	0.00717	
20	3.6	9	0.01076	
20	4.4	4	0.00478	

8PSK, Middle Channel, f_c = 1880 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-11	-0.00585	Pass
-20		-5	-0.00266	
-10		9	0.00479	
0		4	0.00213	
10		2	0.00106	
20		5	0.00266	
30		-7	-0.00372	
40		-6	-0.00319	
50		7	0.00372	
20	3.6	-2	-0.00106	
20	4.4	-6	-0.00319	

WCDMA Band II: R99

Middle Channel, f_c = 1880.0 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
℃	V_{DC}	Hz	ppm	
-30	3.85	-2	-0.00106	Pass
-20		3	0.00160	
-10		5	0.00266	
0		1	0.00053	
10		-2	-0.00106	
20		-7	-0.00372	
30		1	0.00053	
40		9	0.00479	
50		4	0.00213	
20	3.6	-5	-0.00266	
20	4.4	5	0.00266	

WCDMA Band IV: R99

Rel 99_Middle Channel					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	℃	MHz	MHz	MHz	MHz
3.85	-30	1710.527100	1710	1754.465400	1755
	-20	1710.527600		1754.466800	
	-10	1710.528200		1754.467100	
	0	1710.527300		1754.467700	
	10	1710.529100		1754.469200	
	20	1710.528200		1754.471300	
	30	1710.528500		1754.472200	
	40	1710.527300		1754.473400	
	50	1710.525800		1754.477200	
3.6	20	1710.528700		1754.476100	
4.4	20	1710.528400		1754.477200	

WCDMA Band Ⅴ: R99

Middle Channel, f_c = 836.6 MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
℃	V_{DC}	Hz	ppm	ppm
-30	3.85	-6	-0.00717	2.5
-20		-5	-0.00598	
-10		4	0.00478	
0		11	0.01315	
10		-6	-0.00717	
20		-2	-0.00239	
30		7	0.00837	
40		5	0.00598	
50		2	0.00239	
20	3.6	-9	-0.01076	
20	4.4	4	0.00478	

LTE Band 2:

QPSK, Channel Bandwidth:20MHz Middle Channel, f_c = 1880 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-9.86	-0.0052	Pass
-20		-8.55	-0.0045	
-10		-7.89	-0.0042	
0		5.71	0.003	
10		7.86	0.0042	
20		-5.56	-0.003	
30		-6.35	-0.0034	
40		-7.84	-0.0042	
50		6.35	0.0034	
20	3.6	5.88	0.0031	
20	4.4	5.53	0.0029	

16QAM, Channel Bandwidth:20MHz Middle Channel, f_c =1880 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-7.34	-0.0039	Pass
-20		-8.34	-0.0044	
-10		6.20	0.0033	
0		6.50	0.0035	
10		-6.28	-0.0033	
20		-9.41	-0.005	
30		8.52	0.0045	
40		6.38	0.0034	
50		6.93	0.0037	
20	3.6	9.22	0.0049	
20	4.4	-6.98	-0.0037	

LTE Band 4

QPSK, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	1710.770000	1710	1754.580000	1755
	-20	1710.620000		1754.520000	
	-10	1710.870000		1753.560000	
	0	1710.720000		1754.520000	
	10	1710.670000		1753.560000	
	20	1710.520000		1754.480000	
	30	1710.920000		1754.680000	
	40	1710.620000		1754.840000	
	50	1710.620000		1754.840000	
3.6	20	1710.770000		1753.720000	
4.4	20	1710.570000		1754.360000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	1710.820000	1710	1754.580000	1755
	-20	1710.970000		1754.040000	
	-10	1710.970000		1754.520000	
	0	1710.770000		1753.880000	
	10	1710.670000		1754.680000	
	20	1710.520000		1754.480000	
	30	1710.770000		1754.680000	
	40	1710.920000		1754.360000	
	50	1710.820000		1753.720000	
3.6	20	1710.820000		1754.040000	
4.4	20	1710.720000		1754.680000	

LTE Band 5:

Middle Channel, f_c = 836.5 MHz, Channel Bandwidth:10MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	-9.41	-0.0112	2.5
-20		9.13	0.0109	
-10		5.01	0.006	
0		-7.65	-0.0091	
10		-5.52	-0.0066	
20		7.22	0.0086	
30		6.62	0.0079	
40		-7.69	-0.0092	
50		5.98	0.0071	
20	3.6	-6.78	-0.0081	
20	4.4	5.36	0.0064	

Middle Channel, f_c = 836.5 MHz, Channel Bandwidth:10MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	-7.88	-0.0094	2.5
-20		-8.63	-0.0103	
-10		8.26	0.0099	
0		9.75	0.0117	
10		-7.73	-0.0092	
20		7.41	0.0089	
30		-8.44	-0.0101	
40		-7.98	-0.0095	
50		-7.84	-0.0094	
20	3.6	9.47	0.0113	
20	4.4	-8.73	-0.0104	

LTE Band 12

QPSK, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	699.770000	699	715.640000	716
	-20	699.570000		715.700000	
	-10	699.670000		715.820000	
	0	699.870000		715.520000	
	10	699.970000		715.880000	
	20	699.520000		715.480000	
	30	699.920000		715.760000	
	40	699.970000		715.760000	
	50	699.620000		715.880000	
3.6	20	699.770000		715.460000	
4.4	20	699.720000		715.460000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	699.720000	699	715.880000	716
	-20	699.820000		715.580000	
	-10	699.870000		715.460000	
	0	699.820000		715.640000	
	10	699.620000		715.880000	
	20	699.520000		715.480000	
	30	699.770000		715.640000	
	40	699.920000		715.460000	
	50	699.970000		715.880000	
3.6	20	699.670000		715.880000	
4.4	20	699.870000		715.640000	

LTE Band 13

QPSK, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	777.250000	777	786.940000	787
	-20	777.250000		786.760000	
	-10	777.300000		786.700000	
	0	777.050000		786.760000	
	10	777.200000		786.820000	
	20	777.520000		786.480000	
	30	777.200000		786.520000	
	40	777.300000		786.760000	
	50	777.400000		786.580000	
3.6	20	777.300000		786.640000	
4.4	20	777.400000		786.820000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	777.250000	704	786.760000	787
	-20	777.100000		786.520000	
	-10	777.350000		786.700000	
	0	777.050000		786.580000	
	10	777.050000		786.760000	
	20	777.560000		786.480000	
	30	777.300000		786.820000	
	40	777.250000		786.520000	
	50	777.250000		786.700000	
3.6	20	777.100000		786.520000	
4.4	20	777.350000		786.880000	

LTE Band 25:

QPSK, Channel Bandwidth:20MHz Middle Channel, f_c = 1882.5 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-2.35	-0.0013	Pass
-20		-9.71	-0.0052	
-10		-5.17	-0.0028	
0		-6.01	-0.0032	
10		-8.33	-0.0044	
20		-7.71	-0.0041	
30		7.81	0.0042	
40		7.07	0.0038	
50		-6.95	-0.0037	
20	3.6	6.88	0.0037	
20	4.4	-9.02	-0.0048	

16QAM, Channel Bandwidth:20MHz Middle Channel, f_c =1880 MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Result**
℃	**V_{DC}**	**Hz**	**ppm**	
-30	3.85	-7.21	-0.0038	Pass
-20		9.19	0.0049	
-10		-8.99	-0.0048	
0		-9.55	-0.0051	
10		-5.88	-0.0031	
20		6.11	0.0033	
30		7.64	0.0041	
40		-5.56	-0.003	
50		-8.90	-0.0047	
20	3.6	9.89	0.0053	
20	4.4	7.15	0.0038	

LTE Band 26:

Middle Channel, f_c = 831.5 MHz, Channel Bandwidth:10MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	-8.74	-0.0104	2.5
-20		8.17	0.0098	
-10		6.61	0.0079	
0		-7.11	-0.0085	
10		6.21	0.0074	
20		5.26	0.0063	
30		-9.65	-0.0115	
40		8.98	0.0107	
50		-7.31	-0.0087	
20	3.6	-5.75	-0.0069	
20	4.4	-9.84	-0.0118	

Middle Channel, f_c = 831.5 MHz, Channel Bandwidth:10MHz				
Temperature	**Voltage**	**Frequency Error**	**Frequency Error**	**Limit**
℃	**V_{DC}**	**Hz**	**ppm**	**ppm**
-30	3.85	-7.80	-0.0093	2.5
-20		-8.13	-0.0097	
-10		9.76	0.0117	
0		-7.34	-0.0088	
10		8.76	0.0105	
20		-8.30	-0.0099	
30		9.02	0.0108	
40		-7.78	-0.0093	
50		6.14	0.0073	
20	3.6	8.18	0.0098	
20	4.4	-9.74	-0.0116	

LTE Band 41:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	2555.48	2555	2654.86	2655
	-20	2555.24		2654.37	
	-10	2555.12		2654.58	
	0	2555.24		2654.37	
	10	2555.36		2654.93	
	20	2555.52		2654.48	
	30	2555.48		2654.65	
	40	2555.42		2654.79	
	50	2555.36		2654.72	
3.6	20	2555.18		2654.72	
4.4	20	2555.24		2654.65	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	**Temperature**	**F_L**	**Limit**	**F_H**	**Limit**
Vdc	**℃**	**MHz**	**MHz**	**MHz**	**MHz**
3.85	-30	2555.42	2555	2654.65	2655
	-20	2555.42		2654.51	
	-10	2555.48		2654.44	
	0	2555.54		2654.37	
	10	2555.36		2654.65	
	20	2555.52		2654.48	
	30	2555.54		2654.79	
	40	2555.42		2654.79	
	50	2555.24		2654.51	
3.6	20	2555.24		2654.93	
4.4	20	2555.48		2654.65	

LTE Band 66:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	℃	MHz	MHz	MHz	MHz
3.85	-30	1710.100000	1710	1779.640000	1780
	-20	1710.450000		1779.640000	
	-10	1710.050000		1779.820000	
	0	1710.050000		1779.760000	
	10	1710.300000		1779.700000	
	20	1710.520000		1779.480000	
	30	1710.450000		1779.460000	
	40	1710.200000		1779.940000	
	50	1710.450000		1779.520000	
3.6	20	1710.350000		1779.580000	
4.4	20	1710.050000		1779.580000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	℃	MHz	MHz	MHz	MHz
3.85	-30	1710.450000	1710	1779.880000	1780
	-20	1710.300000		1779.640000	
	-10	1710.400000		1779.520000	
	0	1710.400000		1779.700000	
	10	1710.100000		1779.520000	
	20	1710.520000		1779.480000	
	30	1710.300000		1779.640000	
	40	1710.050000		1779.940000	
	50	1710.350000		1779.700000	
3.6	20	1710.100000		1779.760000	
4.4	20	1710.100000		1779.880000	

LTE Band 71:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	℃	MHz	MHz	MHz	MHz
3.85	-30	665.620000	663	687.440000	698
	-20	665.860000		687.510000	
	-10	665.740000		687.370000	
	0	665.800000		687.440000	
	10	665.920000		687.580000	
	20	666.020000		687.480000	
	30	665.680000		687.930000	
	40	665.920000		687.510000	
	50	665.860000		687.930000	
3.6	20	666.040000		687.440000	
4.4	20	665.920000		687.930000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	℃	MHz	MHz	MHz	MHz
3.85	-30	665.680000	663	687.440000	698
	-20	666.040000		687.440000	
	-10	665.740000		687.580000	
	0	665.800000		687.370000	
	10	665.740000		687.580000	
	20	666.020000		687.480000	
	30	665.740000		687.860000	
	40	665.920000		687.510000	
	50	665.800000		687.720000	
3.6	20	665.800000		687.510000	
4.4	20	665.620000		687.510000	

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small, the extreme voltage was declared by applicant.

******* END OF REPORT *******