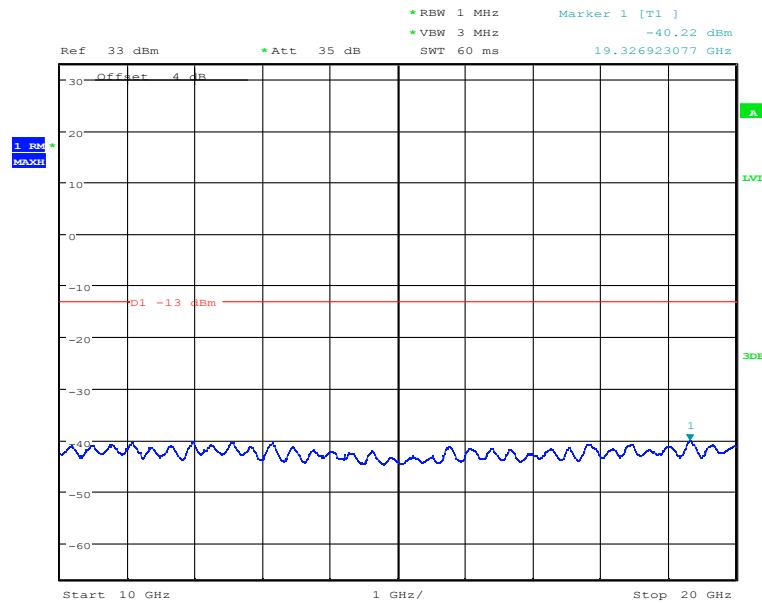


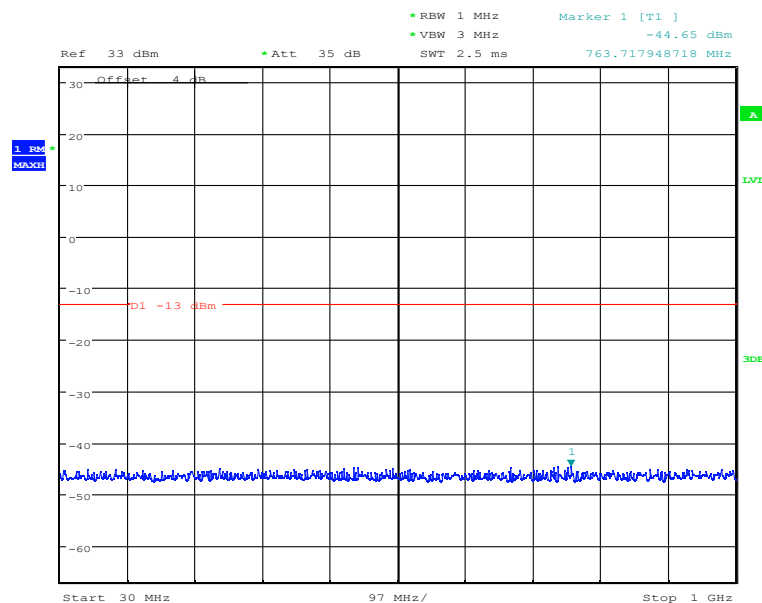


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 06:38:27

Band2-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 06:48:51

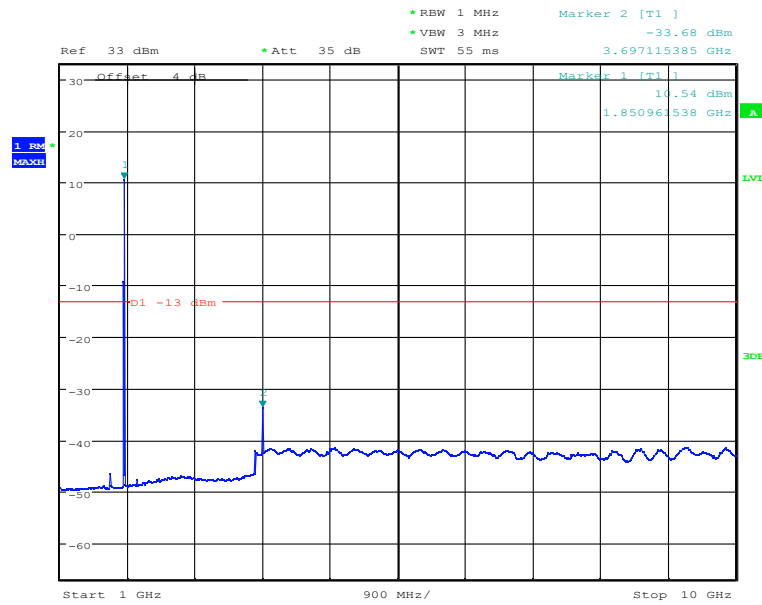
Band2-Low Channel-3MHz Bandwidth-30MHz to 1GHz

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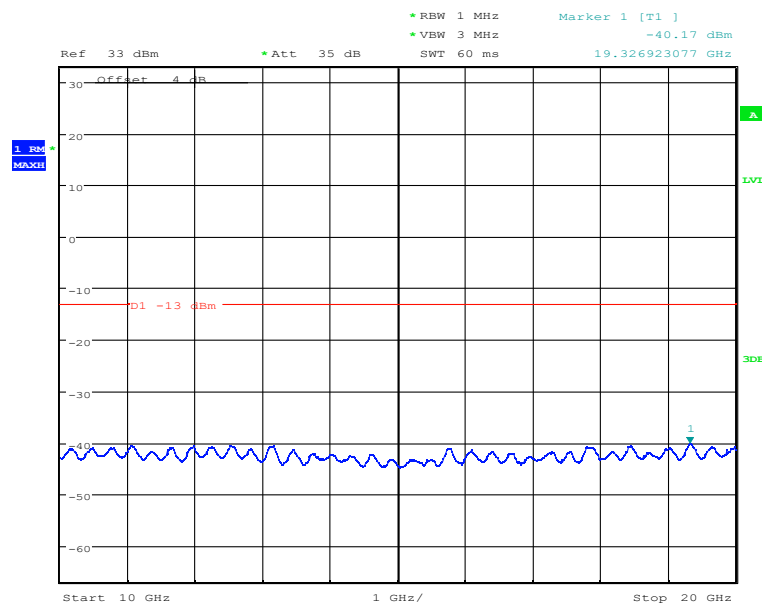


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 06:49:10

Band2-Low Channel-3MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 06:49:34

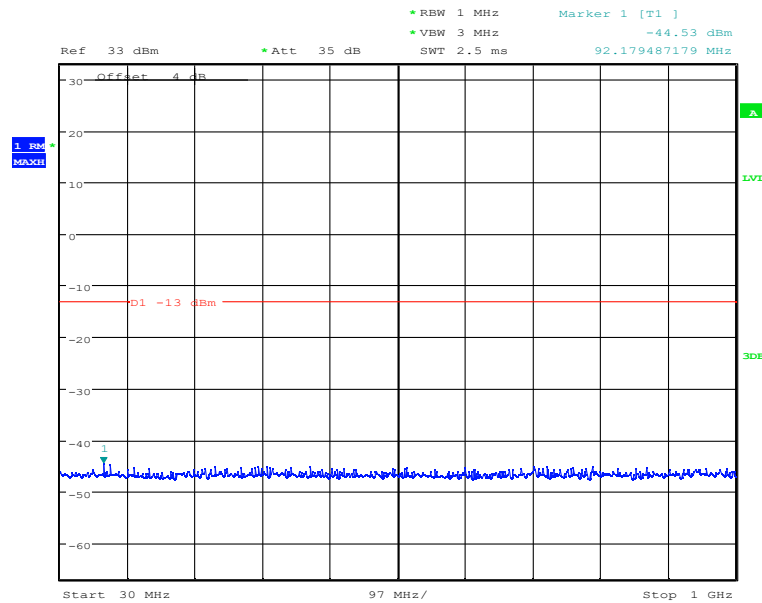
Band2-Low Channel-3MHz Bandwidth-10GHz to 20GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

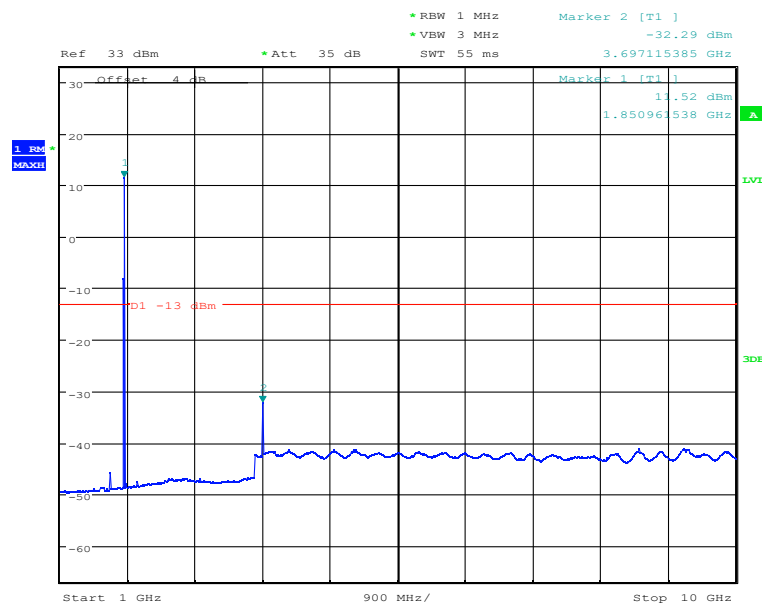


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 06:54:37

Band2-Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 06:55:29

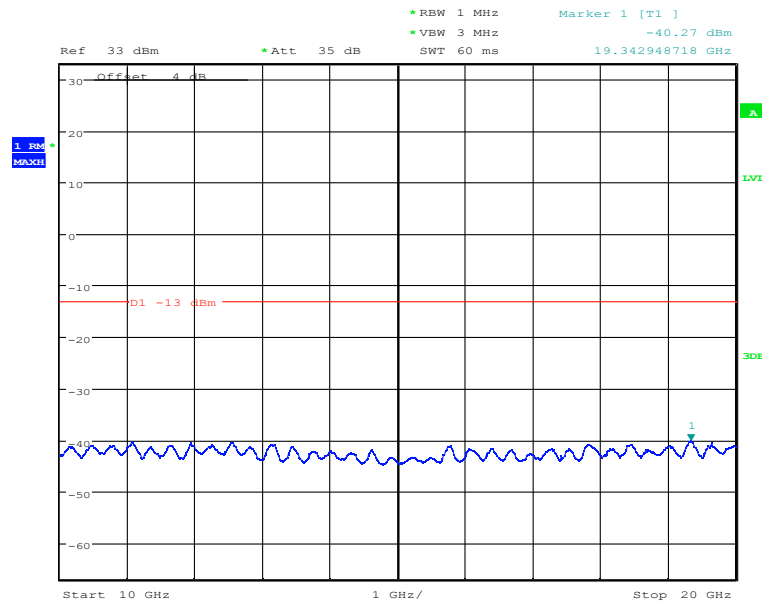
Band2-Low Channel-5MHz Bandwidth-1GHz to 10GHz

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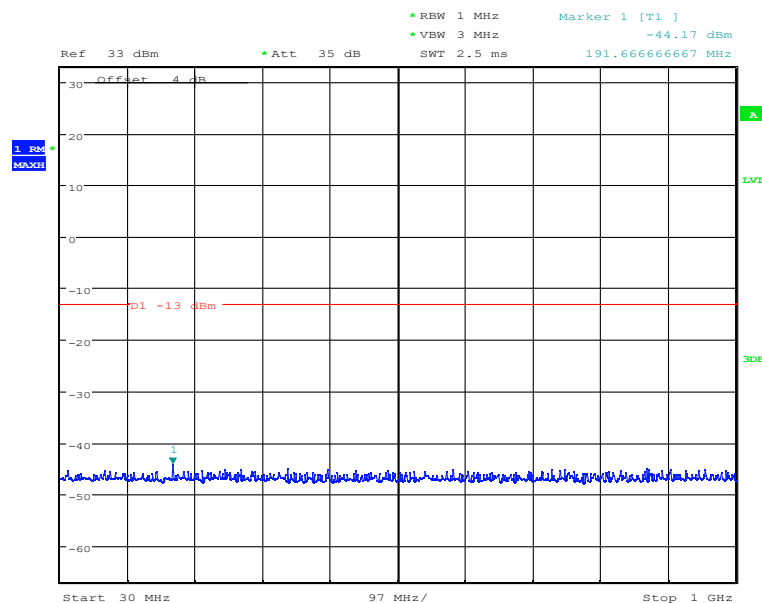


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 06:55:49

Band2-Low Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 07:00:09

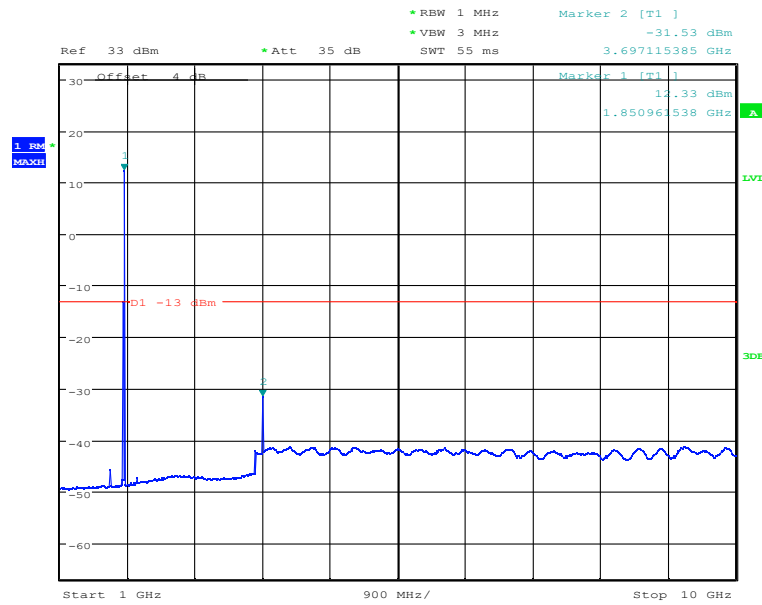
Band2-Low Channel-10MHz Bandwidth-30MHz to 1GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

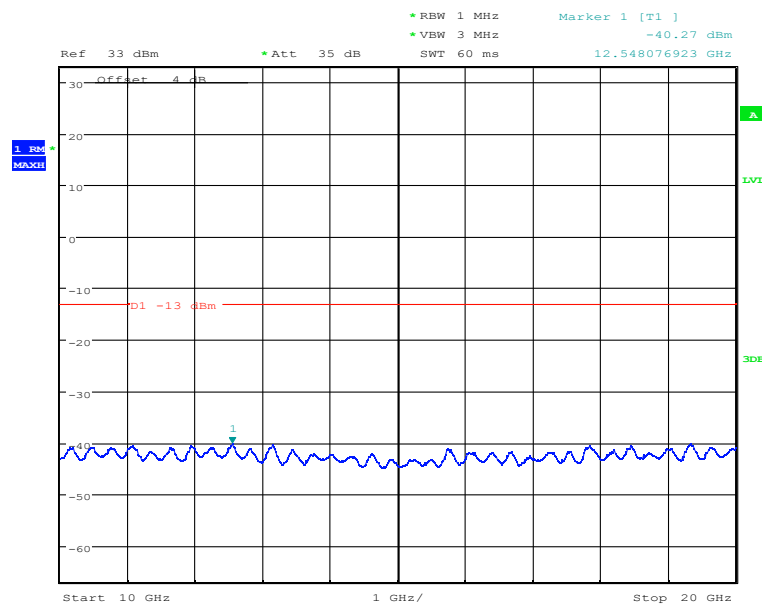


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:02:02

Band2-Low Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 07:02:20

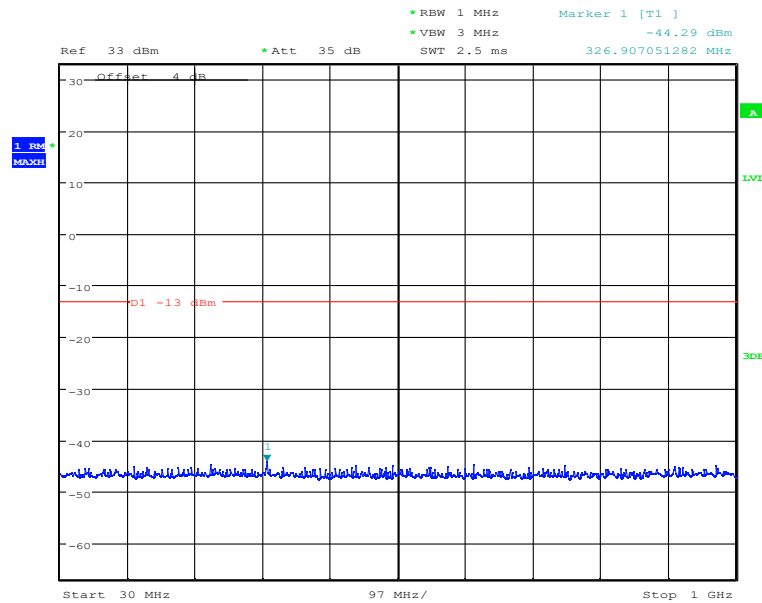
Band2-Low Channel-10MHz Bandwidth-10GHz to 20GHz

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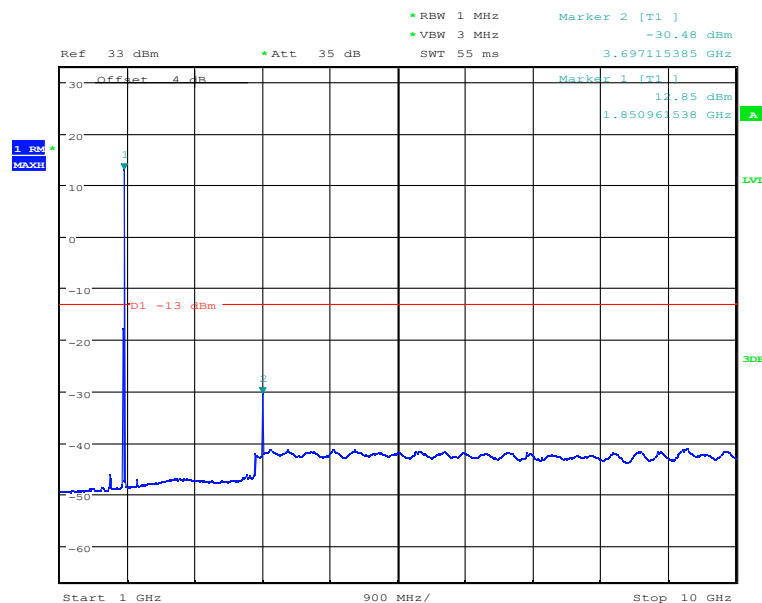


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:06:49

Band2-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 07:07:56

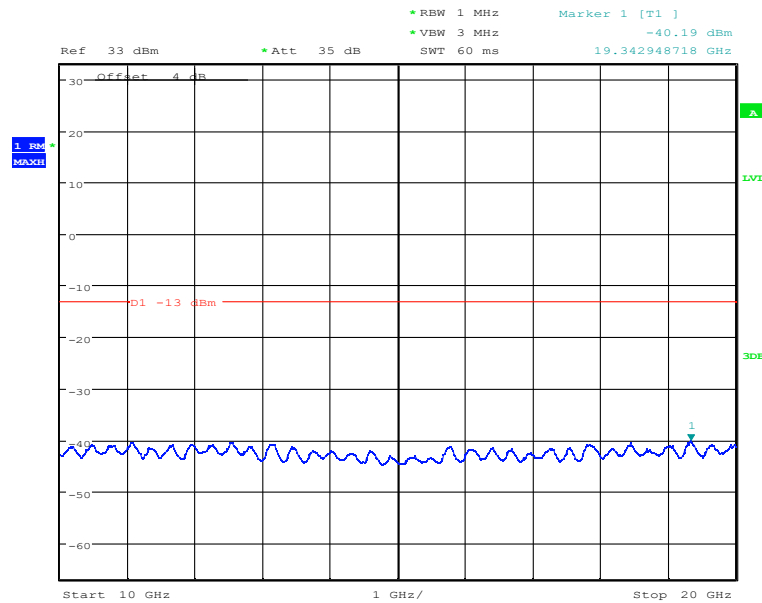
Band2-Low Channel-15MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

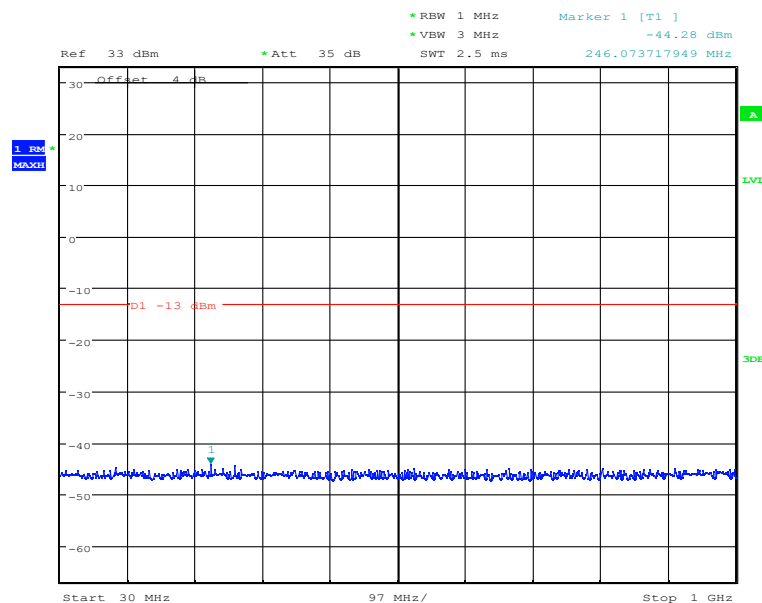


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:08:17

Band2-Low Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 07:21:34

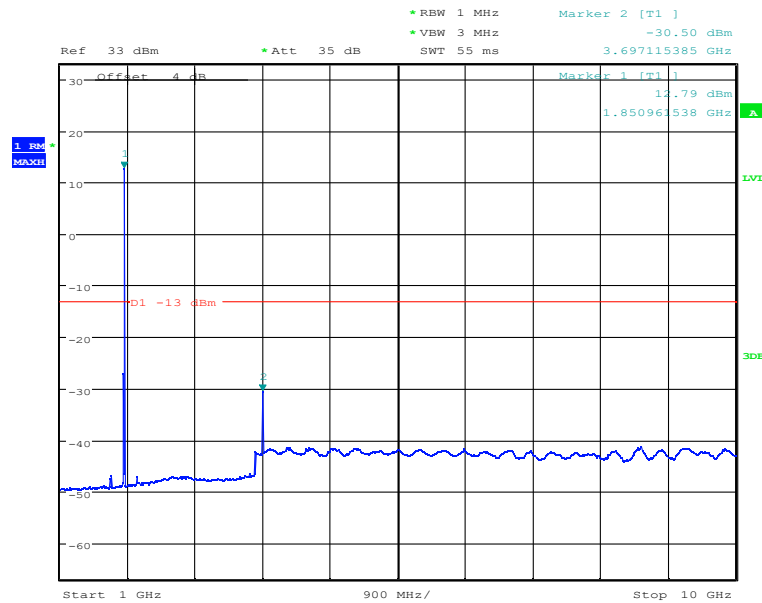
Band2-Low Channel-20MHz Bandwidth-30MHz to 1GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

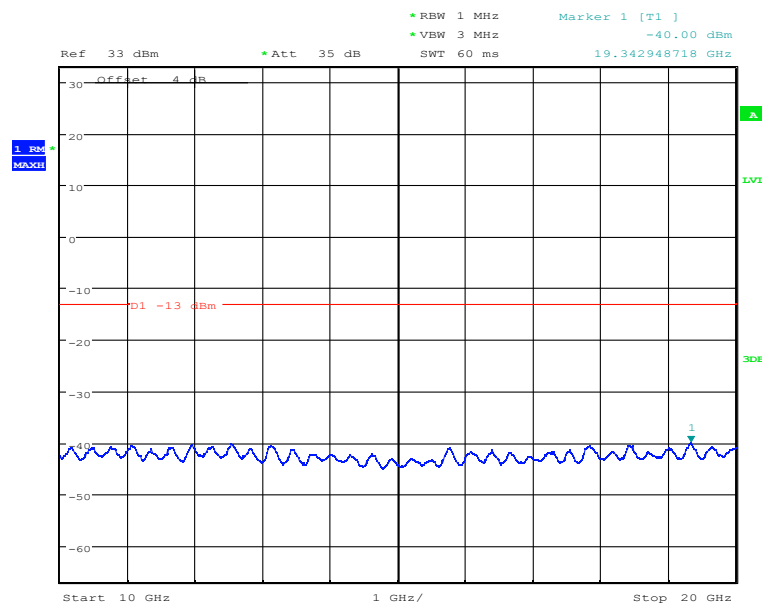


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:21:52

Band2-Low Channel-20MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 07:22:09

Band2-Low Channel-20MHz Bandwidth-10GHz to 20GHz

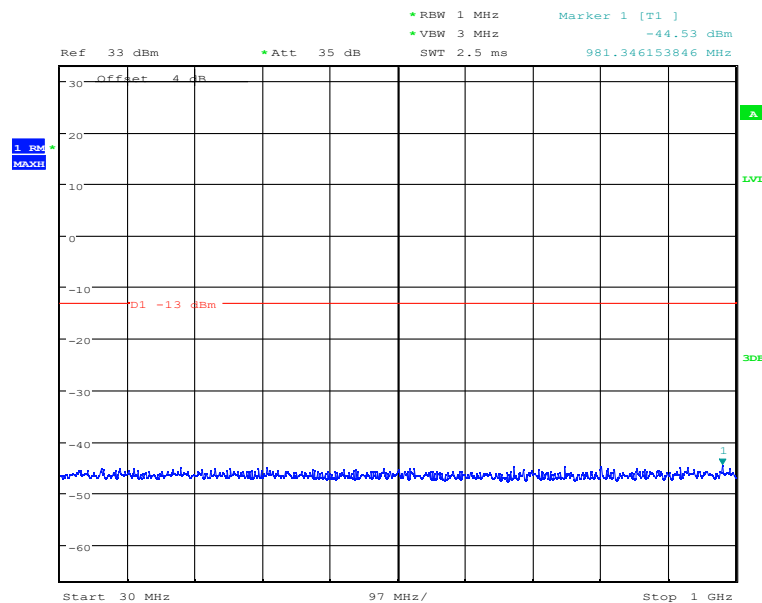
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



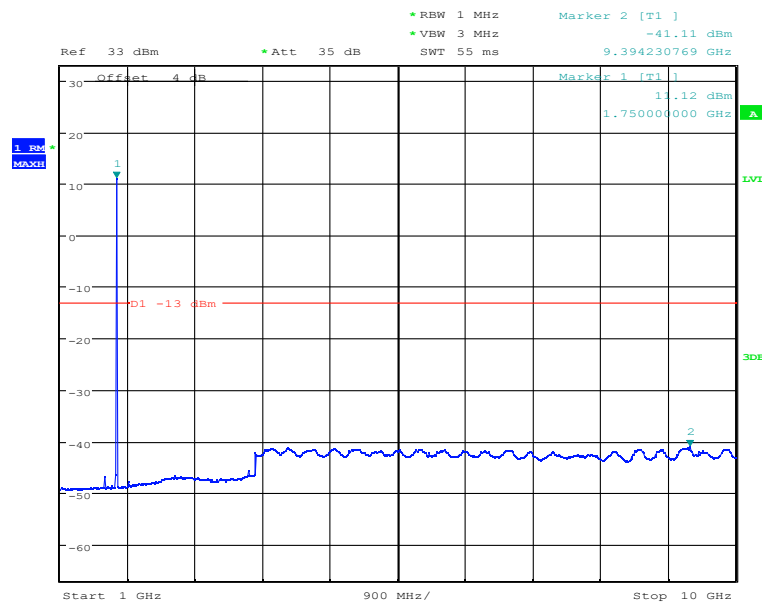
Report No.: I21W00004-WWAN_Rev2

5.3.9 CAT-M B4 Conducted Spurious Emission Results



Date: 29.DEC.2020 07:54:35

Band4-High Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 07:55:41

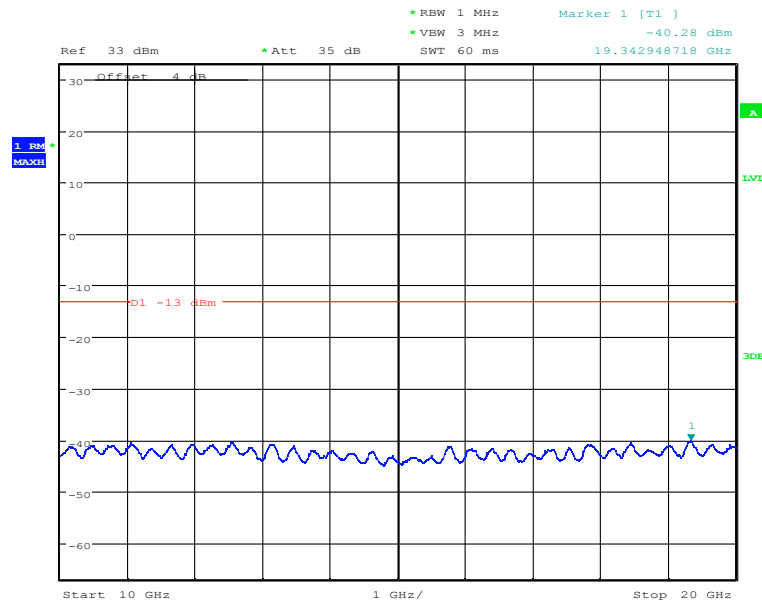
Band4-High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

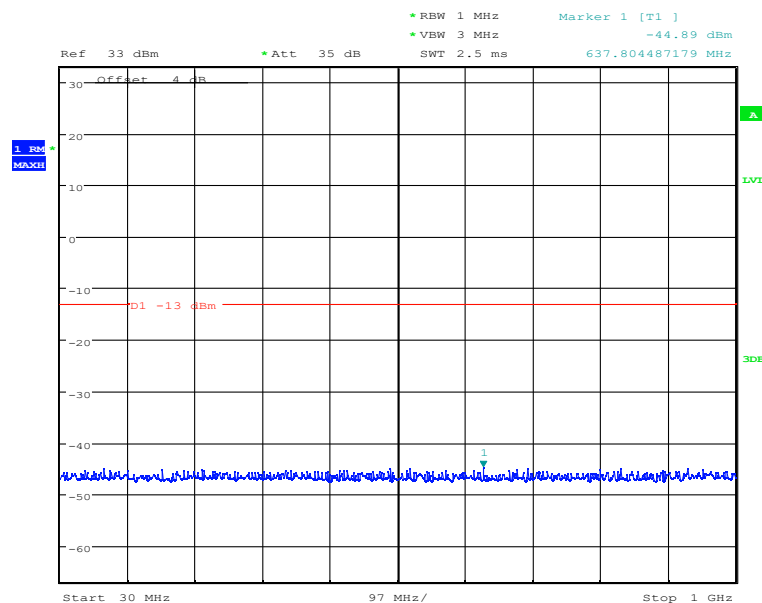


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:56:05

Band4-High Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 08:02:17

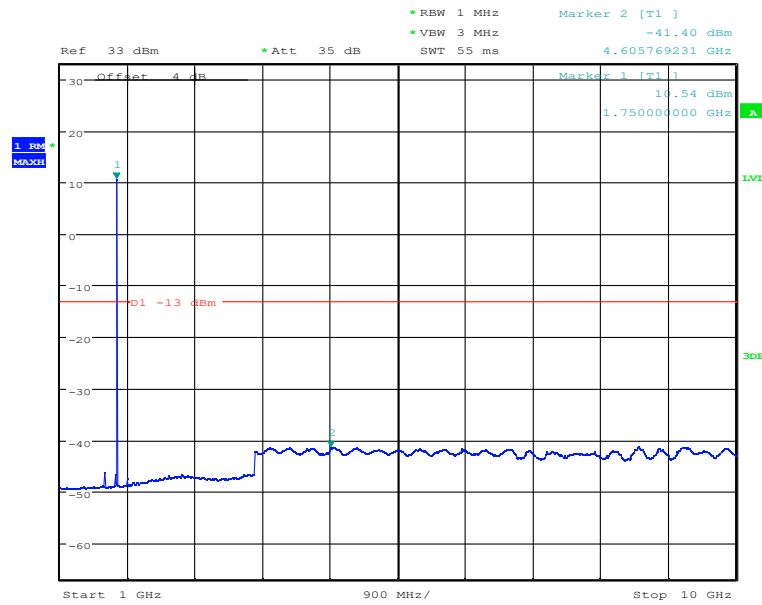
Band4-High Channel-3MHz Bandwidth-30MHz to 1GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

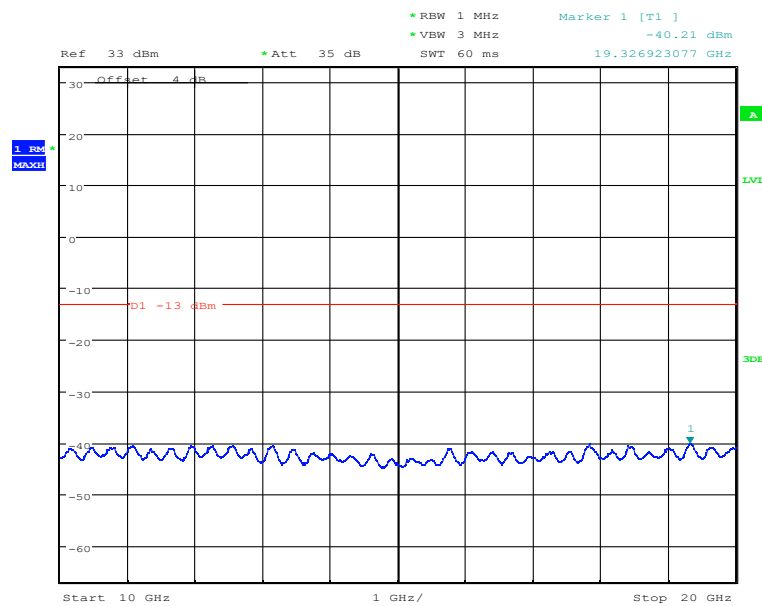


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 08:03:09

Band4-High Channel-3MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 08:03:48

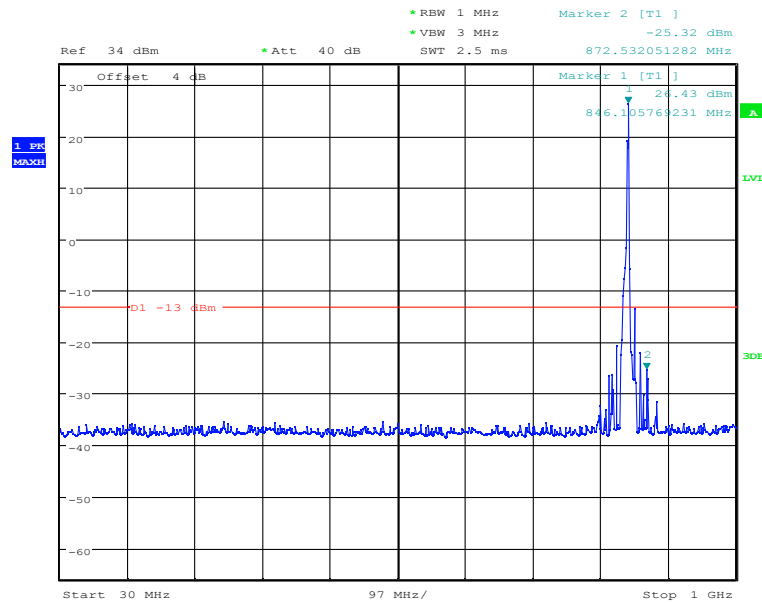
Band4-High Channel-3MHz Bandwidth-10GHz to 20GHz

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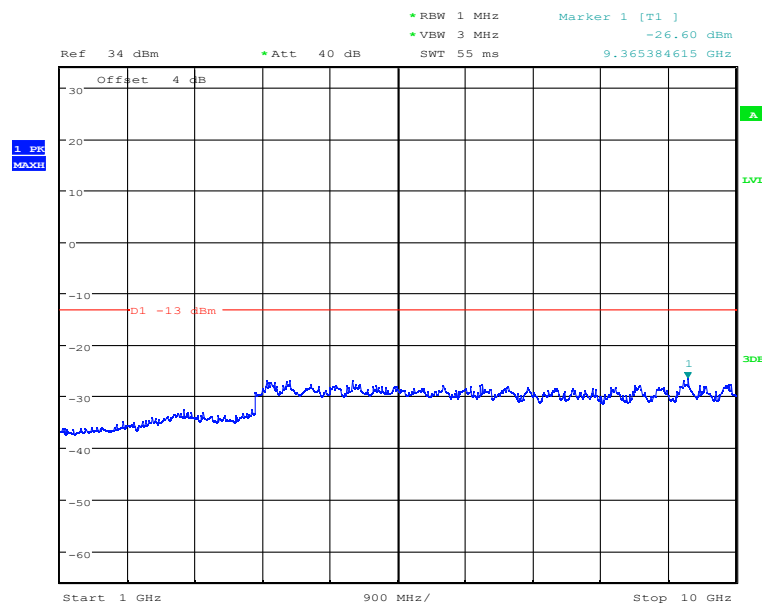


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:02:53

Band4-High Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:03:12

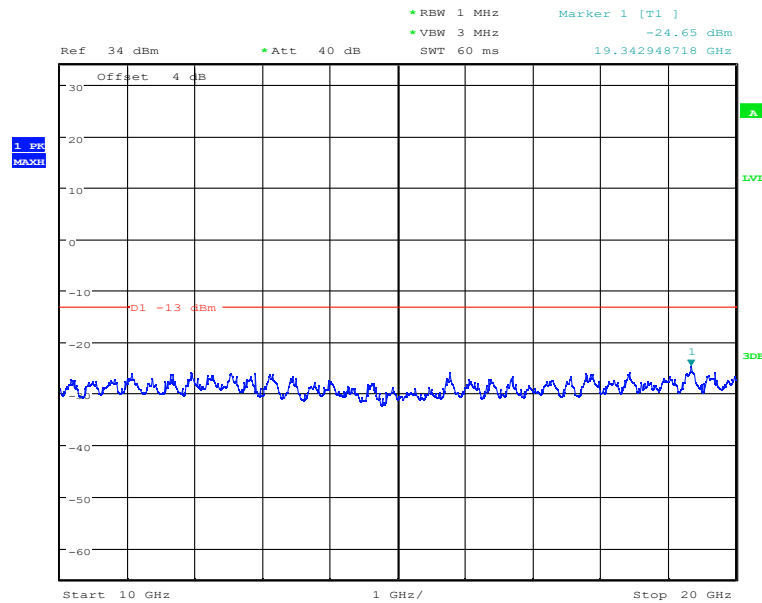
Band4-High Channel-5MHz Bandwidth-1GHz to 10GHz

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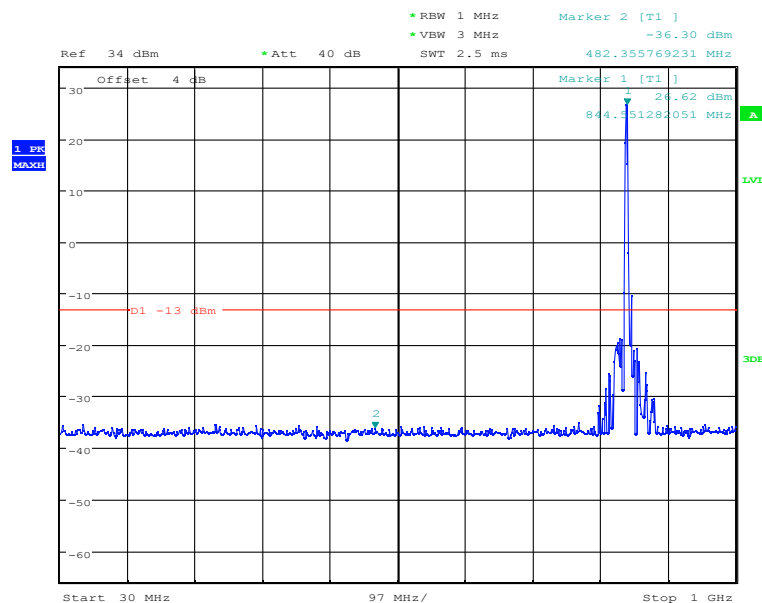


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:03:29

Band4-High Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 30.DEC.2020 01:11:03

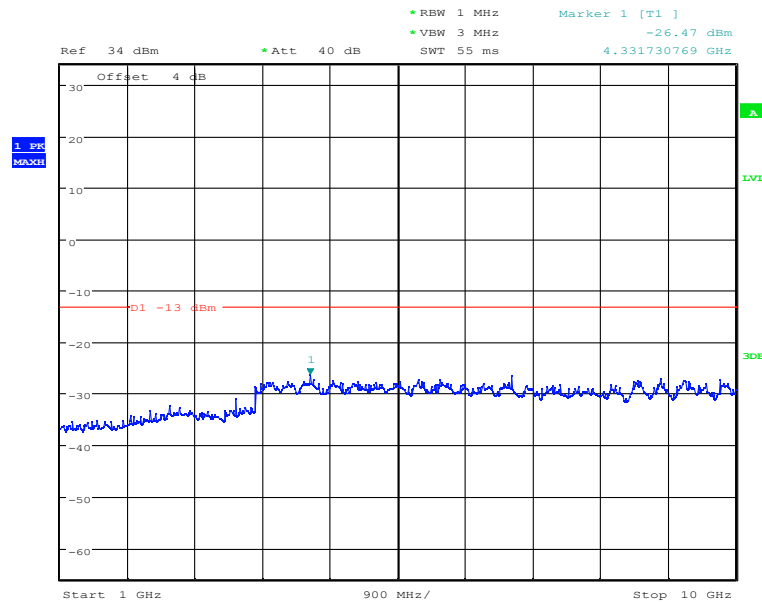
Band4-High Channel-10MHz Bandwidth-30MHz to 1GHz

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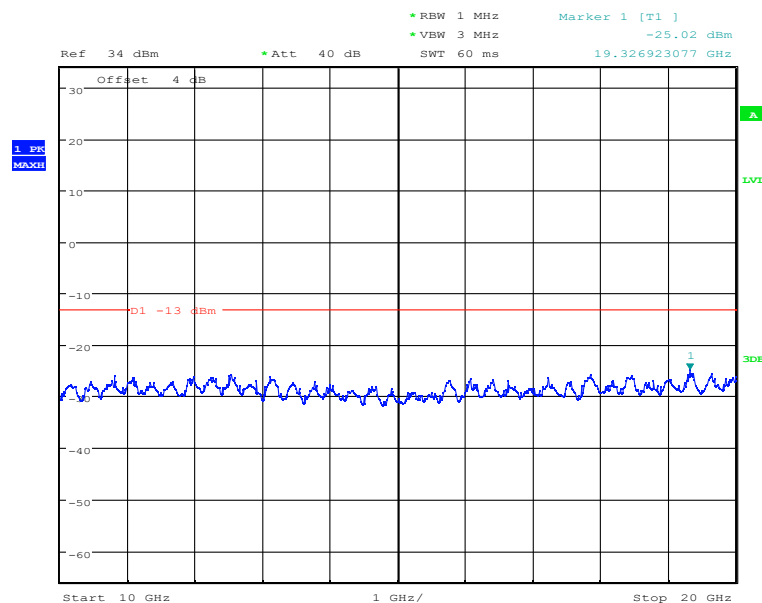


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:10:23

Band4-High Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 30.DEC.2020 01:10:00

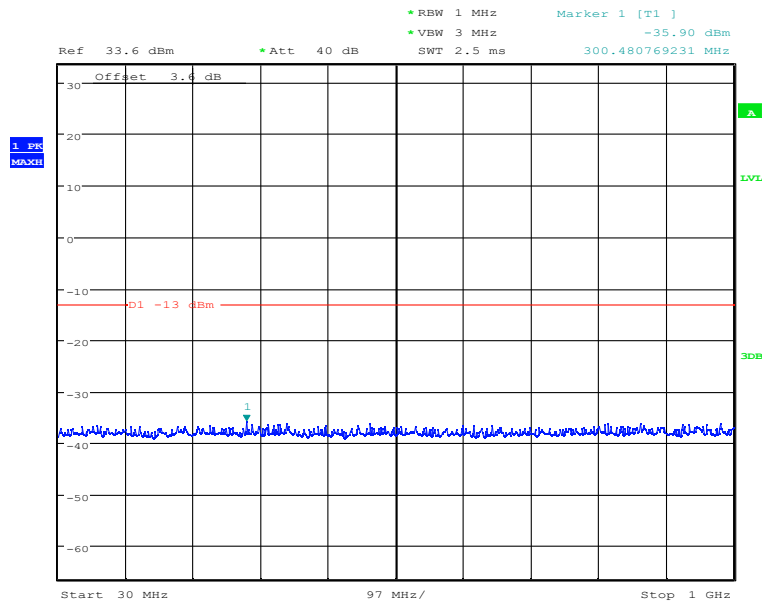
Band4-High Channel-10MHz Bandwidth-10GHz to 20GHz

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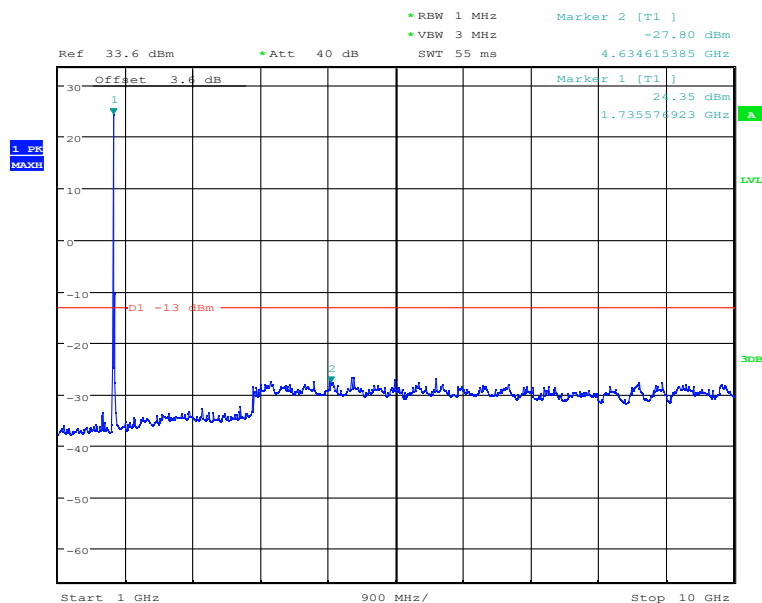


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 03:41:57

Band4-High Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 03:40:51

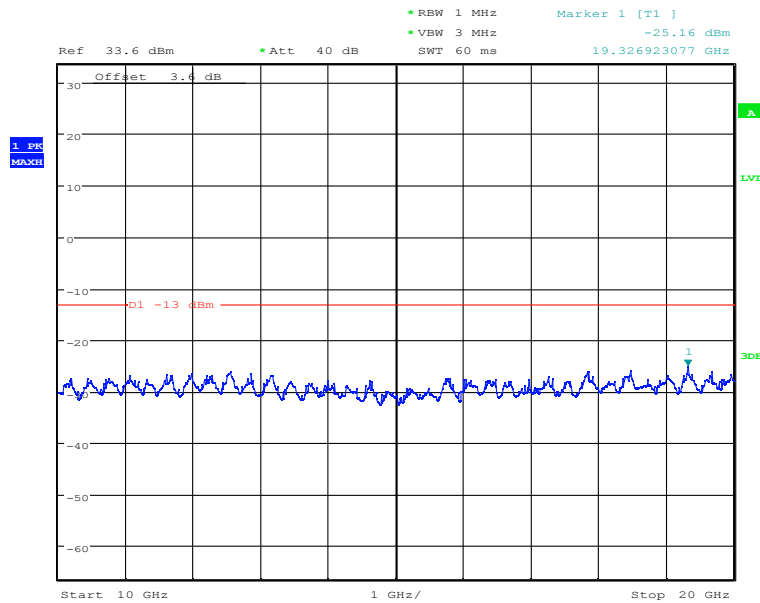
Band4-High Channel-15MHz Bandwidth-1GHz to 10GHz

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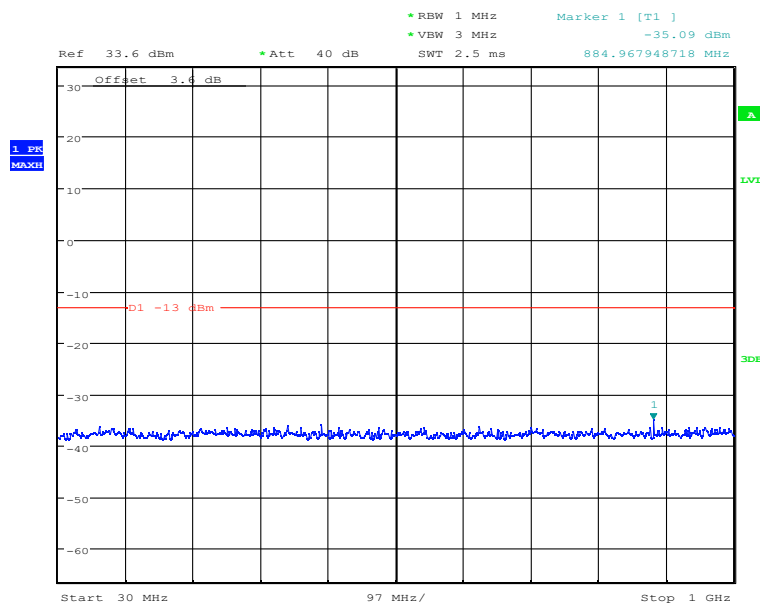


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 03:41:37

Band4-High Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 2.JAN.2021 03:45:29

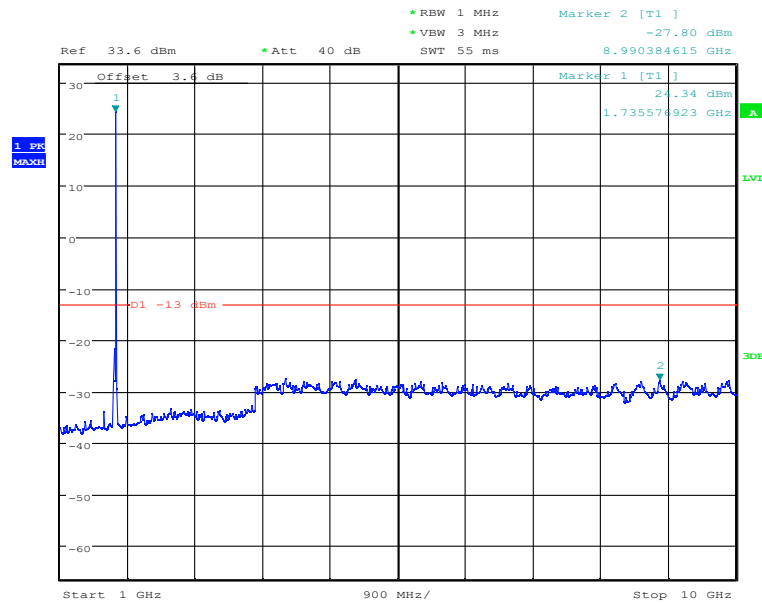
Band4-High Channel-20MHz Bandwidth-30MHz to 1GHz

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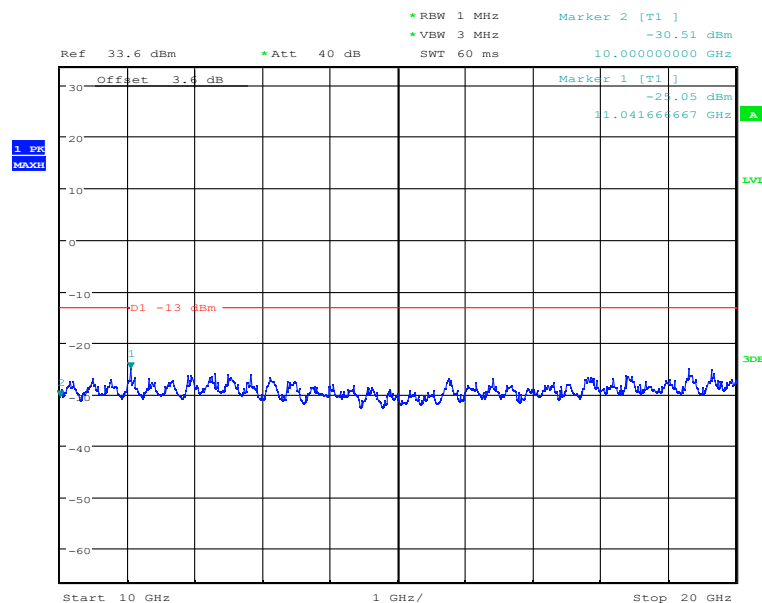


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 03:45:52

Band4-High Channel-20MHz Bandwidth-1GHz to 10GHz



Date: 2.JAN.2021 03:46:23

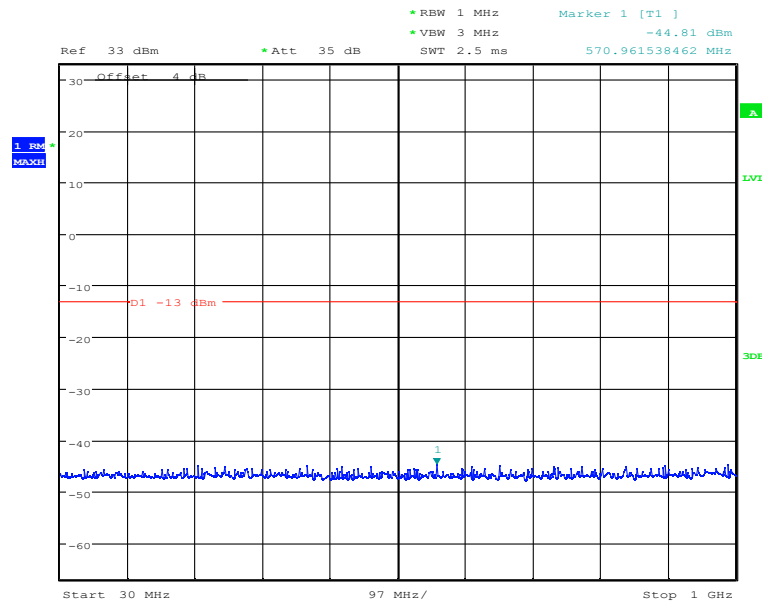
Band4-High Channel-20MHz Bandwidth-10GHz to 20GHz

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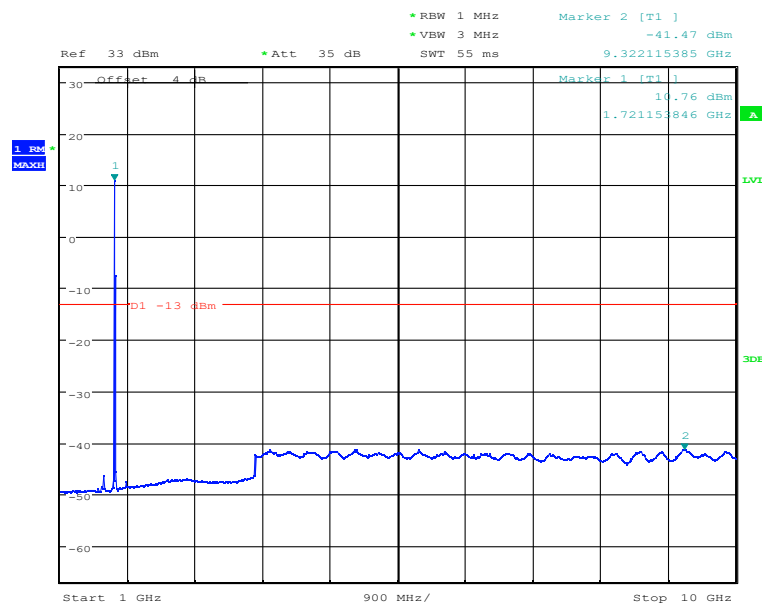


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:50:51

Band4-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 07:51:22

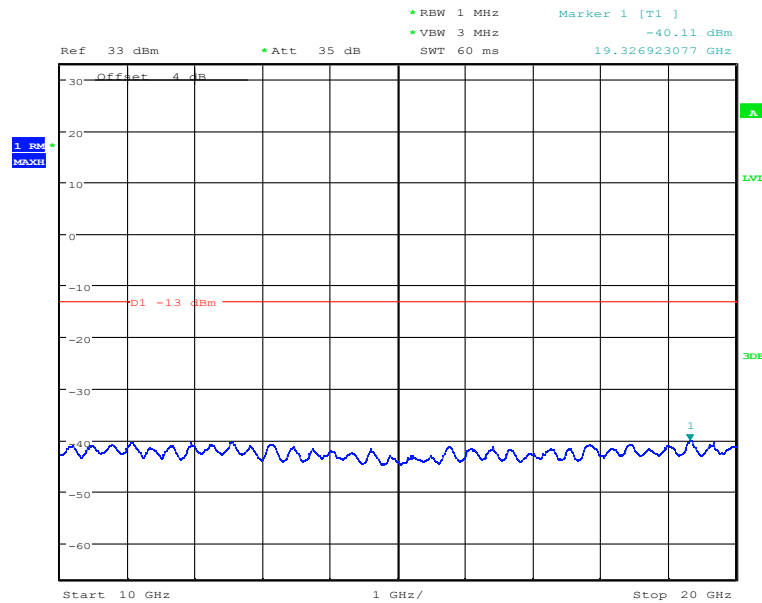
Band4-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

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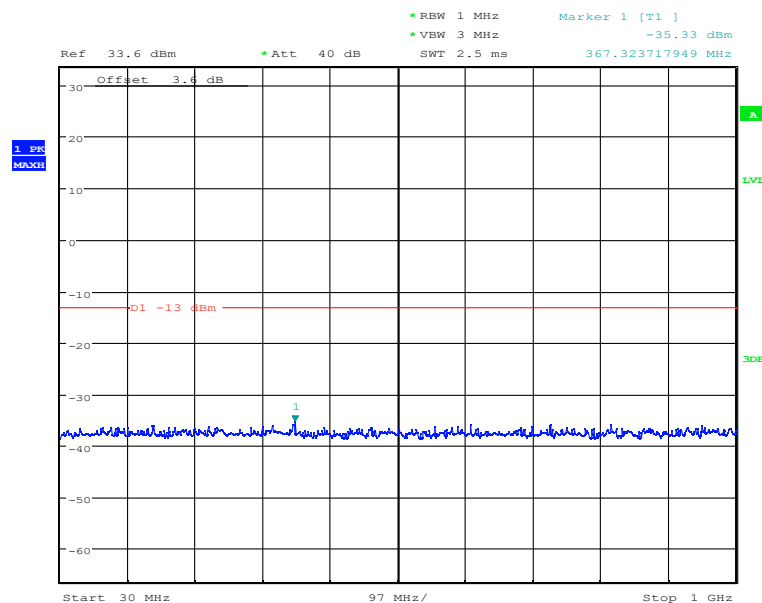


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:51:49

Band4-Middle Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 30.DEC.2020 00:51:48

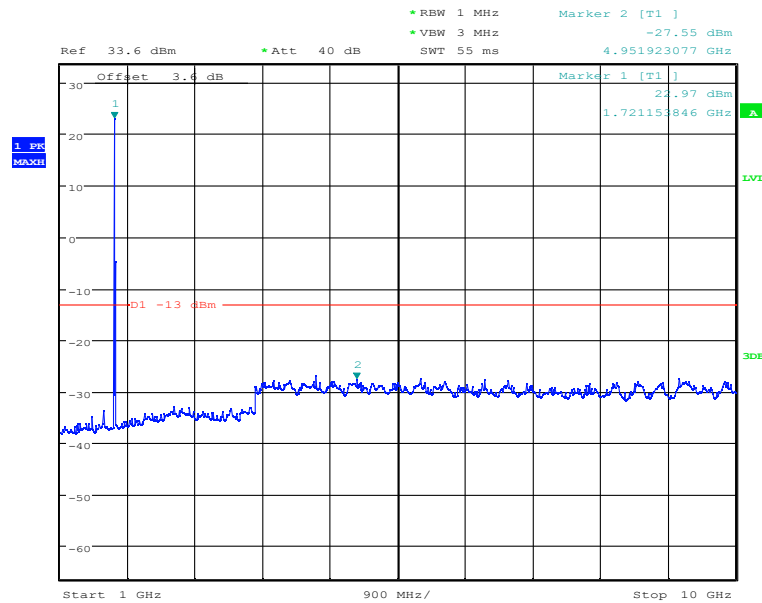
Band4-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

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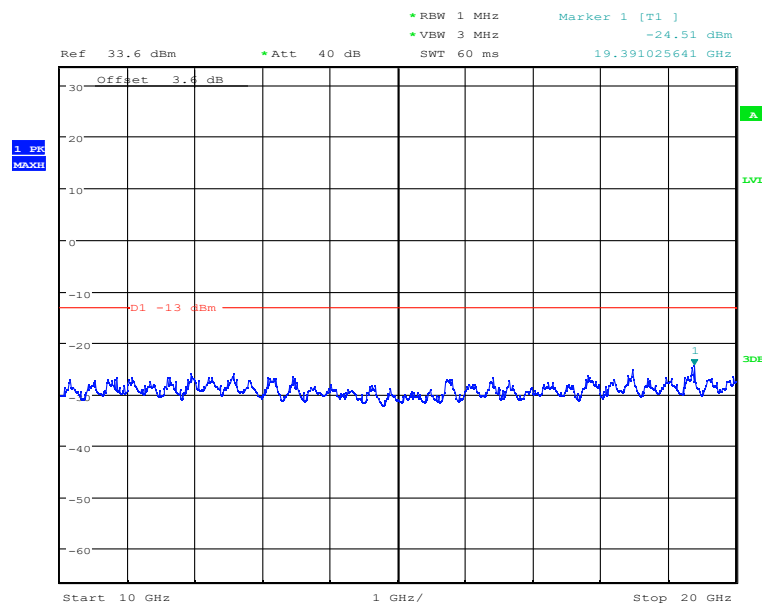


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 00:51:22

Band4-Middle Channel-3MHz Bandwidth-1GHz to 10GHz



Date: 30.DEC.2020 00:51:01

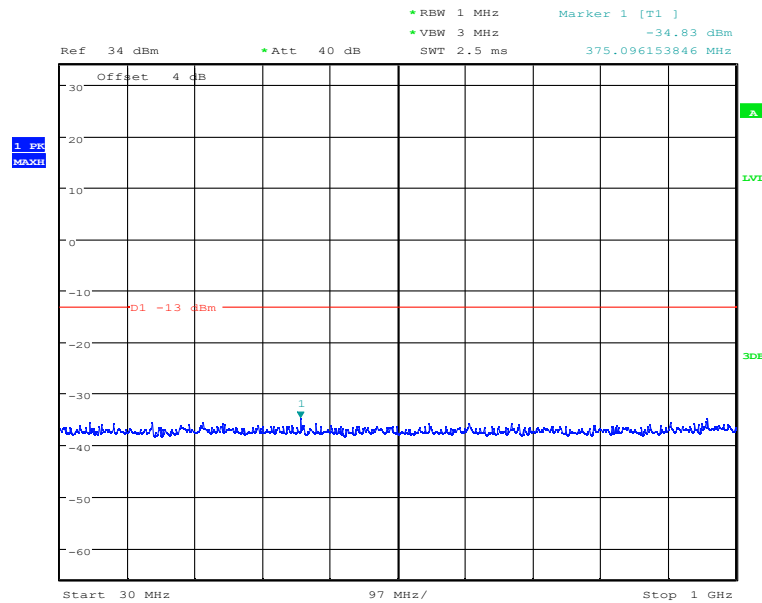
Band4-Middle Channel-3MHz Bandwidth-10GHz to 20GHz

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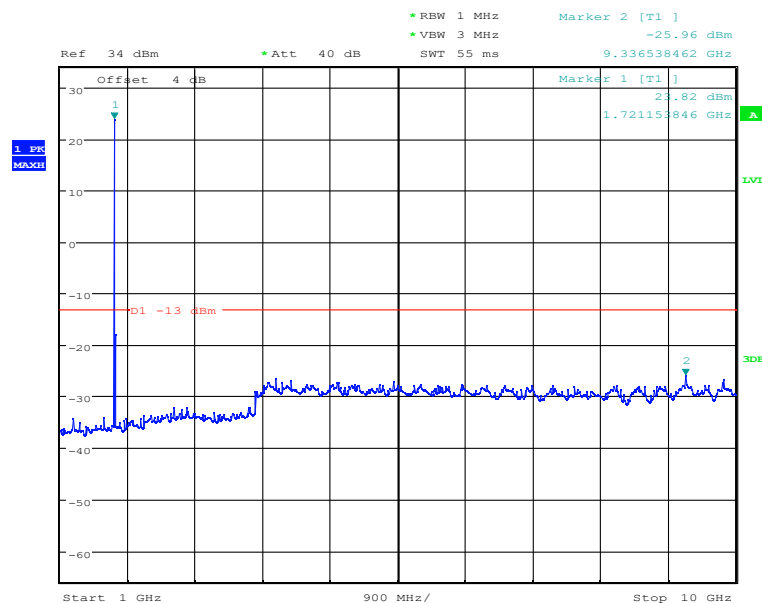


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 00:54:36

Band4-Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 00:54:59

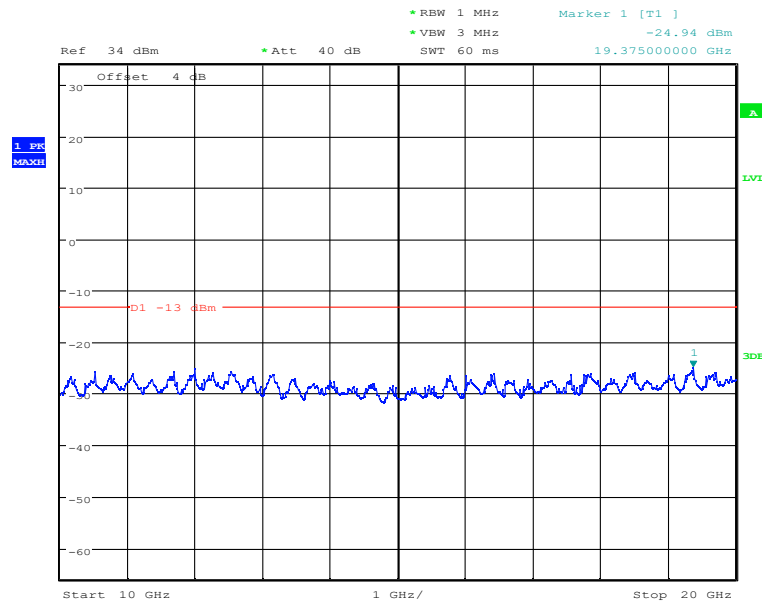
Band4-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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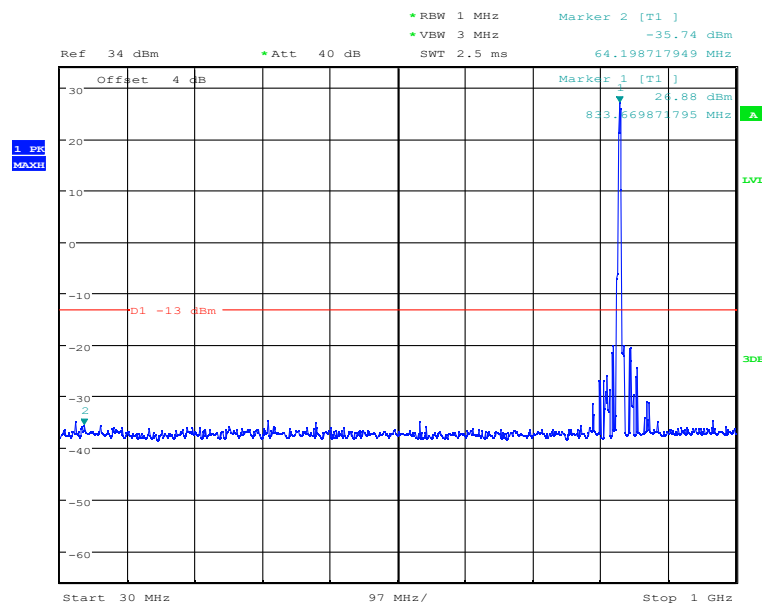


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 00:55:24

Band4-Middle Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 30.DEC.2020 01:14:19

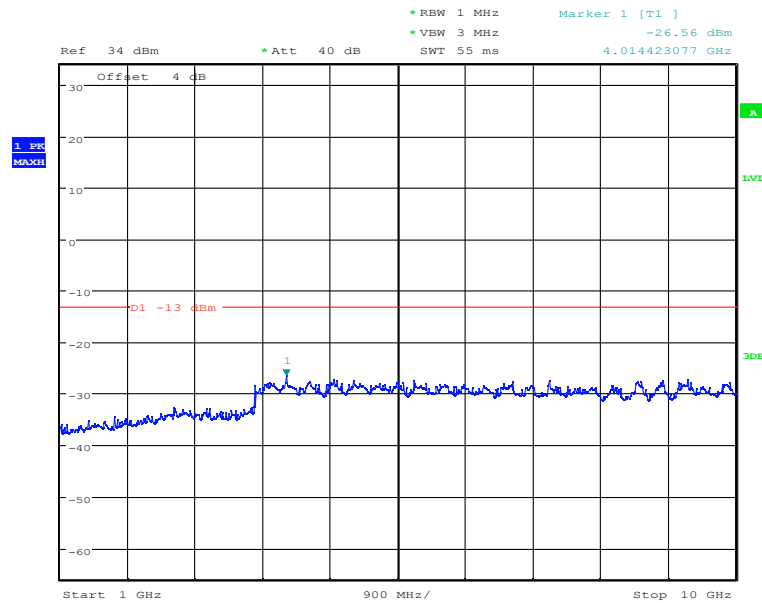
Band4-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

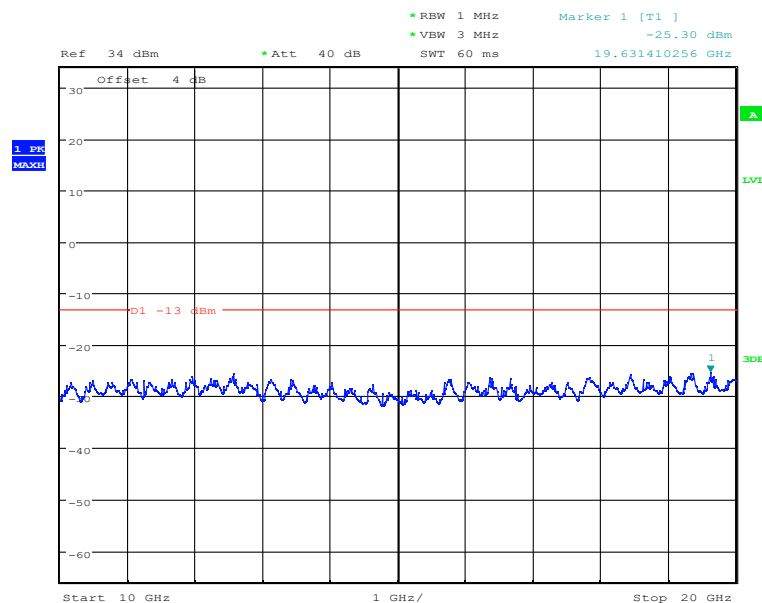


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:14:37

Band4-Middle Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 30.DEC.2020 01:14:54

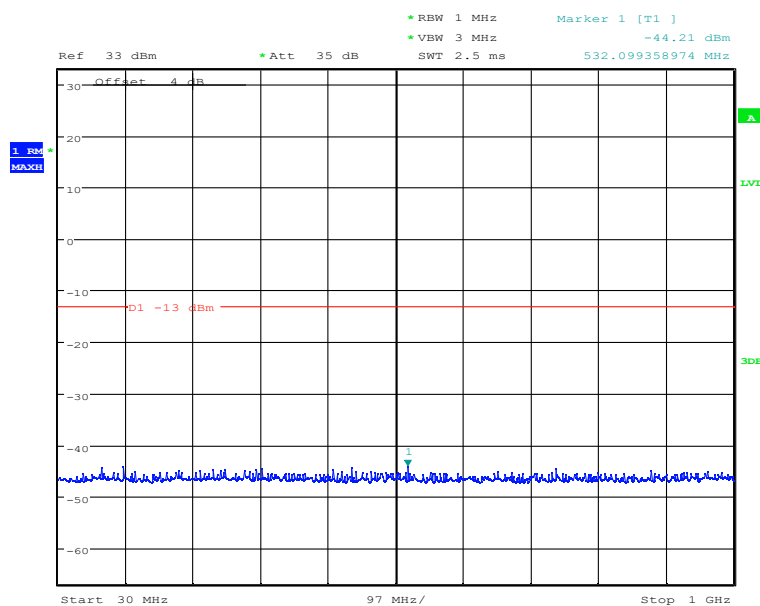
Band4-Middle Channel-10MHz Bandwidth-10GHz to 20GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

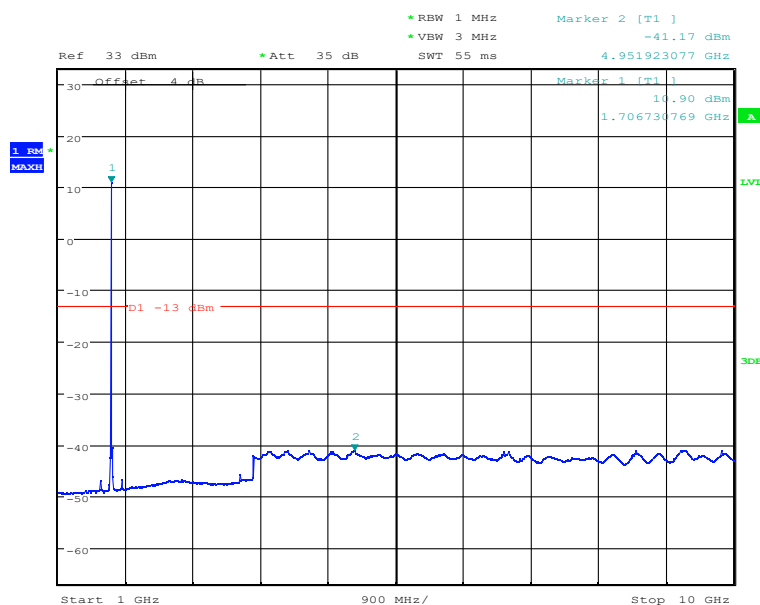


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:35:42

Band4-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 07:37:24

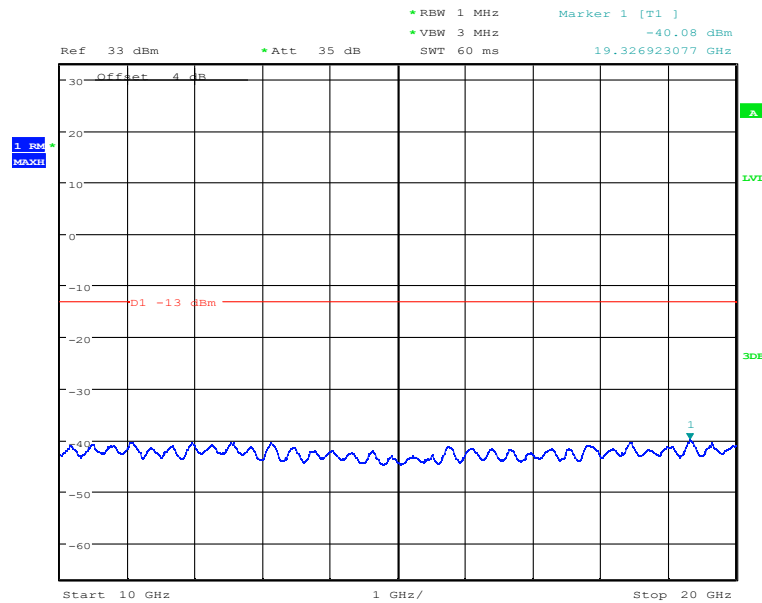
Band4-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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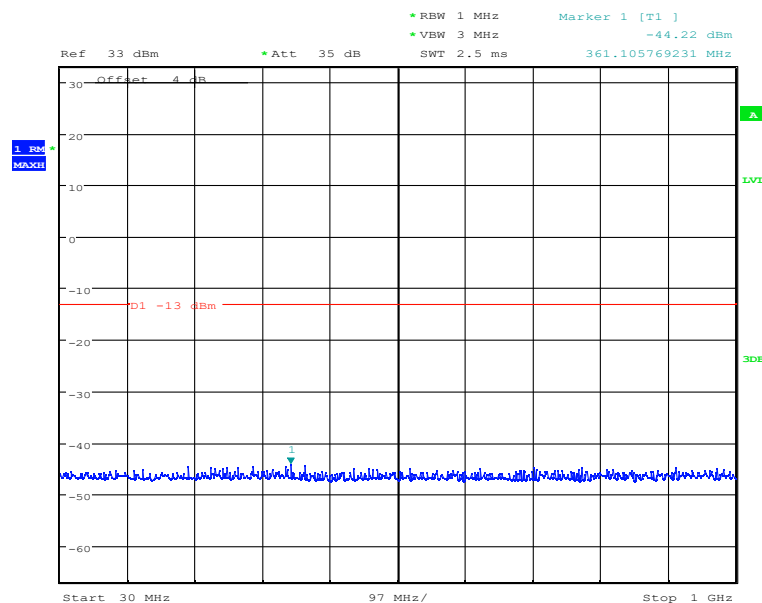


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:37:41

Band4-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 07:57:41

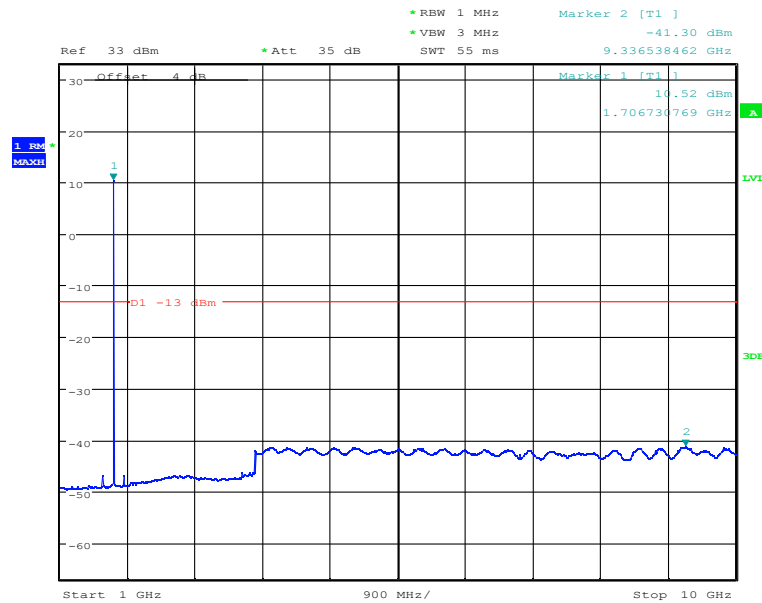
Band4-Low Channel-3MHz Bandwidth-30MHz to 1GHz

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777

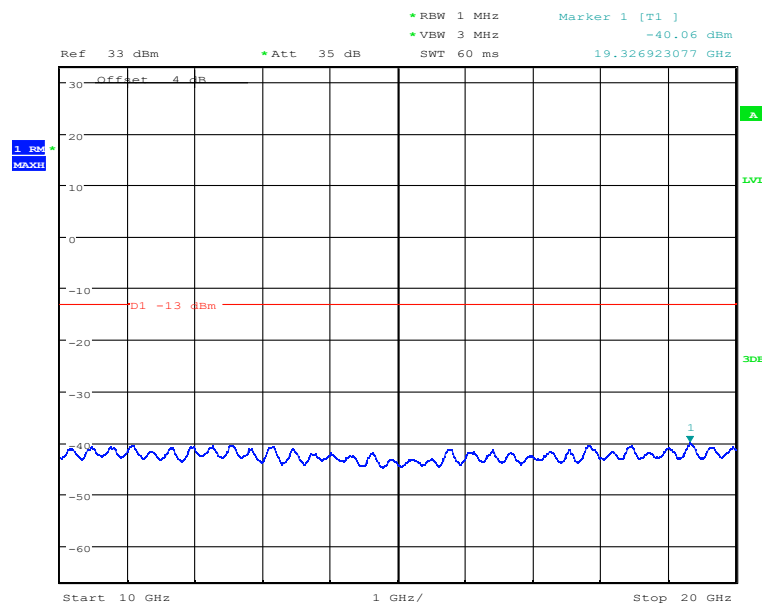


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:58:48

Band4-Low Channel-3MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 07:59:13

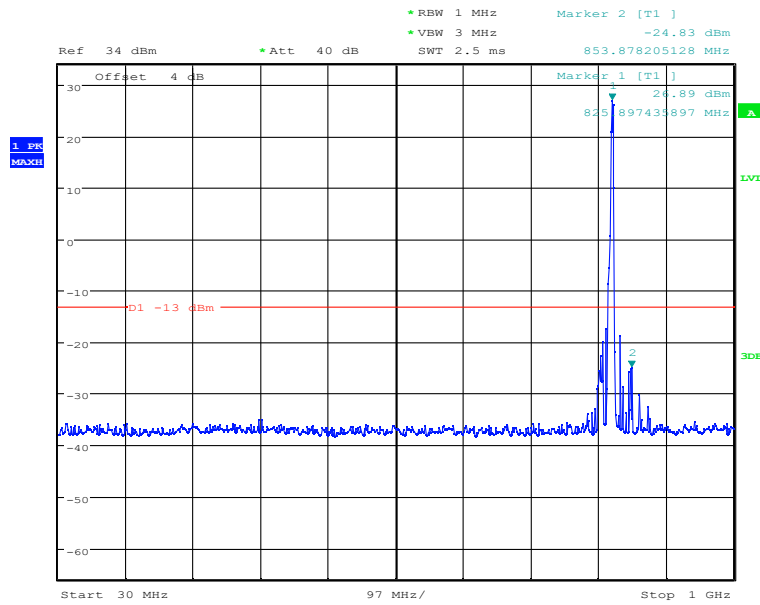
Band4-Low Channel-3MHz Bandwidth-10GHz to 20GHz

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

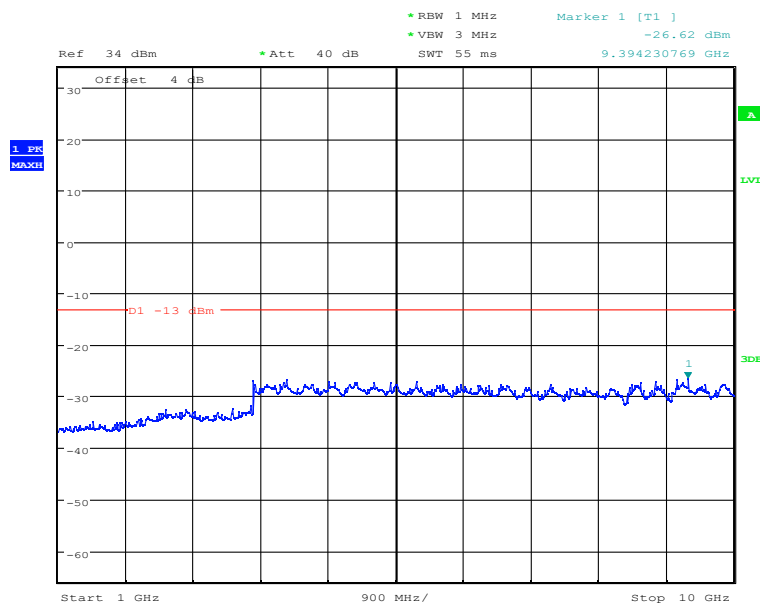


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 00:59:31

Band4-Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 00:59:03

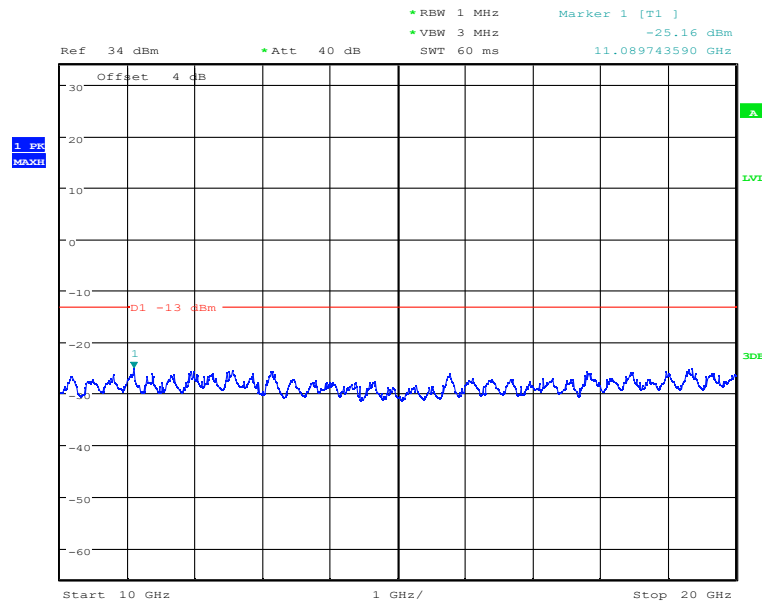
Band4-Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

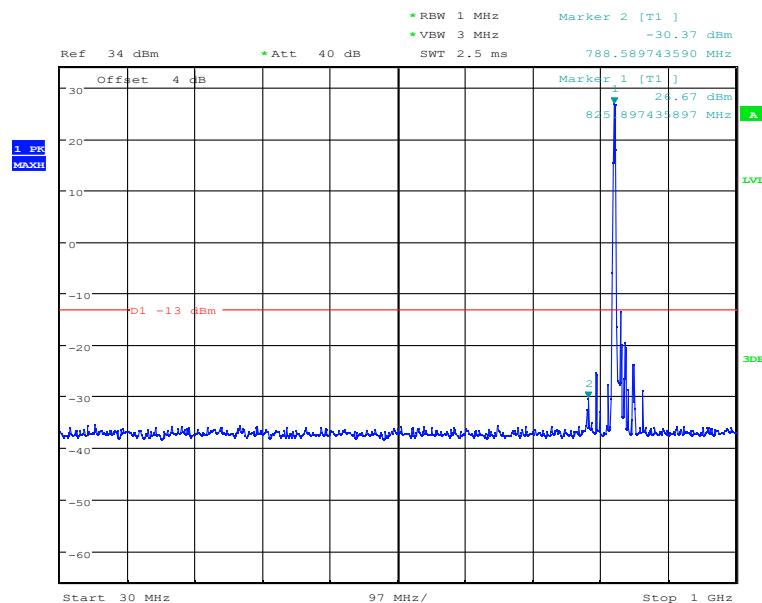


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 00:58:26

Band4-Low Channel-5MHz Bandwidth-10GHz to 20GHz



Date: 30.DEC.2020 01:18:39

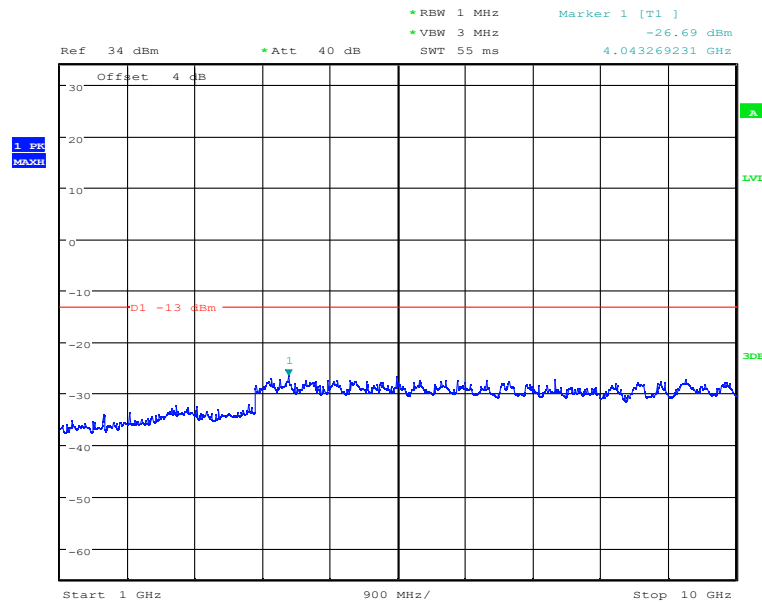
Band4-Low Channel-10MHz Bandwidth-30MHz to 1GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

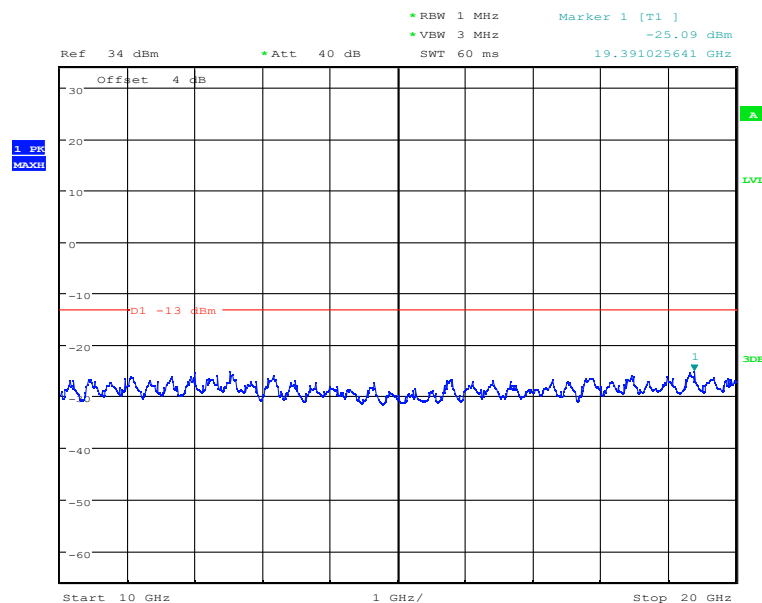


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:18:16

Band4-Low Channel-10MHz Bandwidth-1GHz to 10GHz



Date: 30.DEC.2020 01:17:58

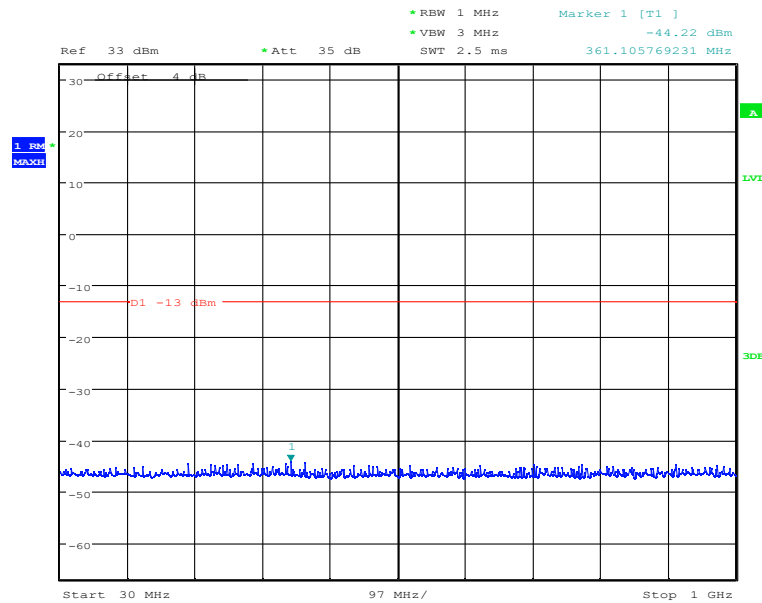
Band4-Low Channel-10MHz Bandwidth-10GHz to 20GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

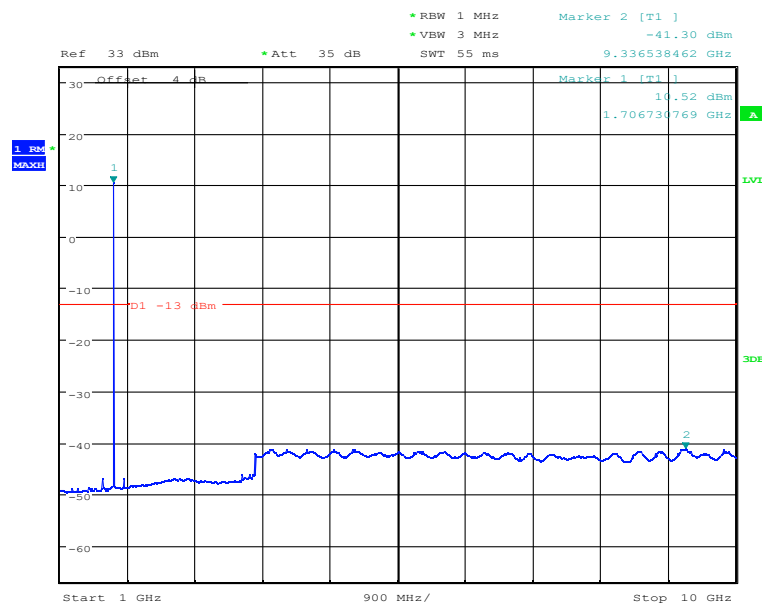


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:57:41

Band4-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Date: 29.DEC.2020 07:58:48

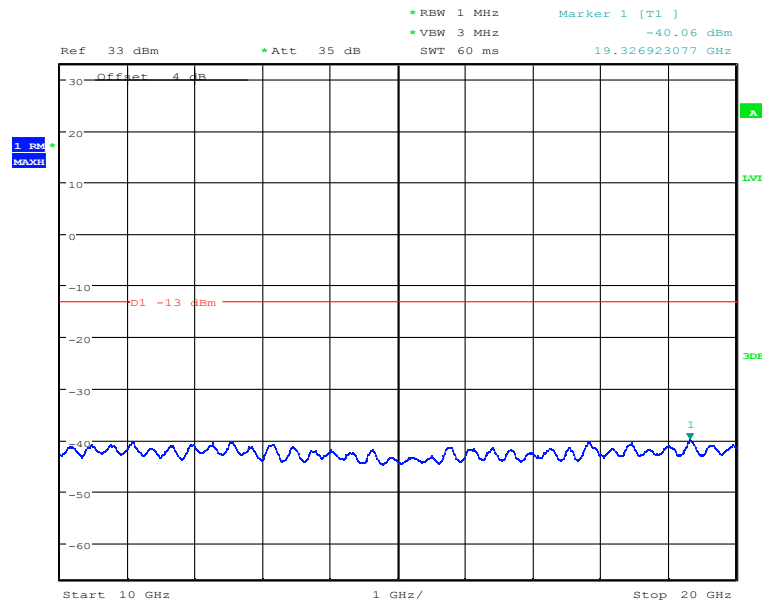
Band4-Low Channel-15MHz Bandwidth-1GHz to 10GHz

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

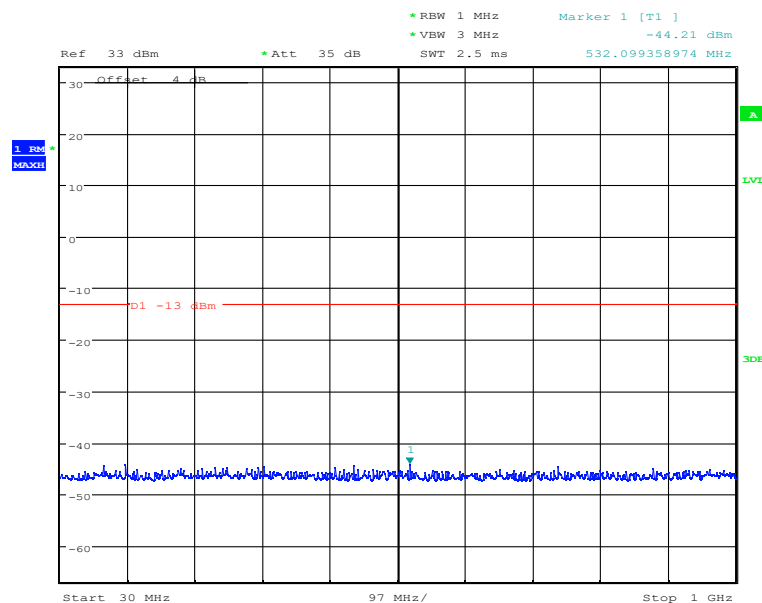


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:59:13

Band4-Low Channel-15MHz Bandwidth-10GHz to 20GHz



Date: 29.DEC.2020 07:35:42

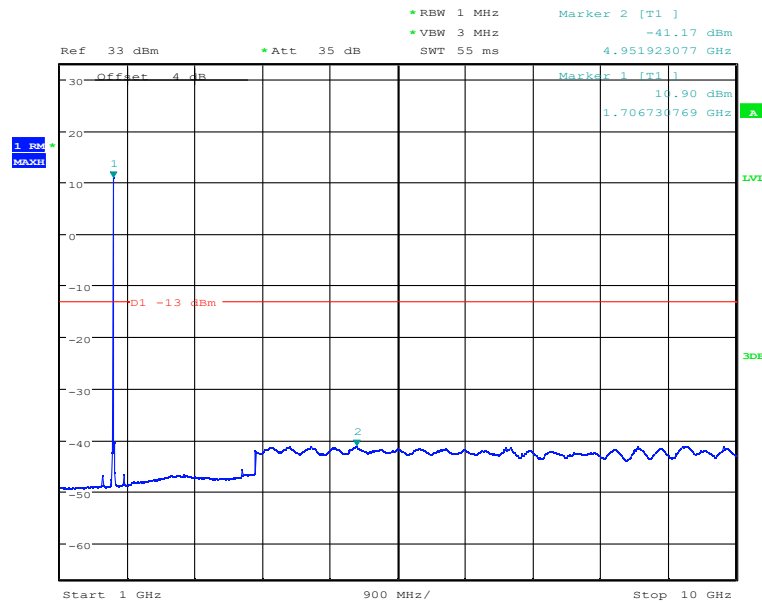
Band4-Low Channel-20MHz Bandwidth-30MHz to 1GHz

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Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

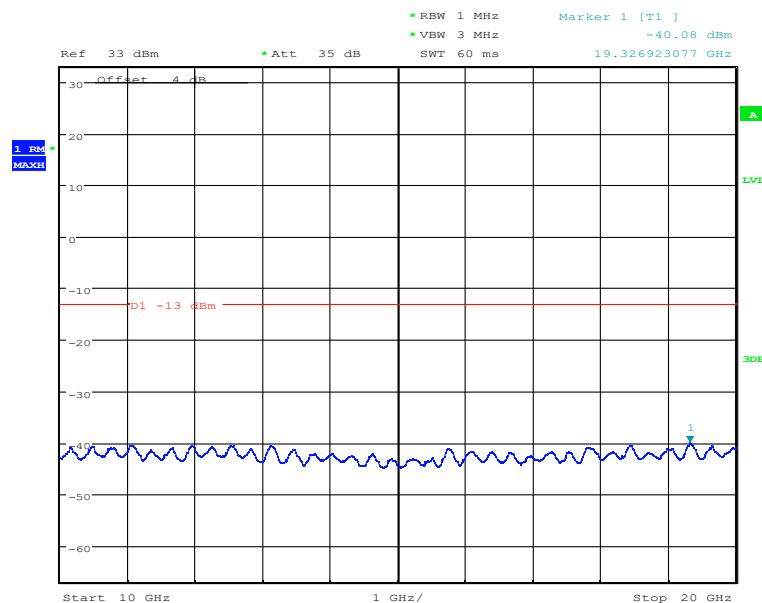


Report No.: I21W00004-WWAN_Rev2



Date: 29.DEC.2020 07:37:24

Band4-Low Channel-20MHz Bandwidth-1GHz to 10GHz



Date: 29.DEC.2020 07:37:41

Band4-Low Channel-20MHz Bandwidth-10GHz to 20GHz

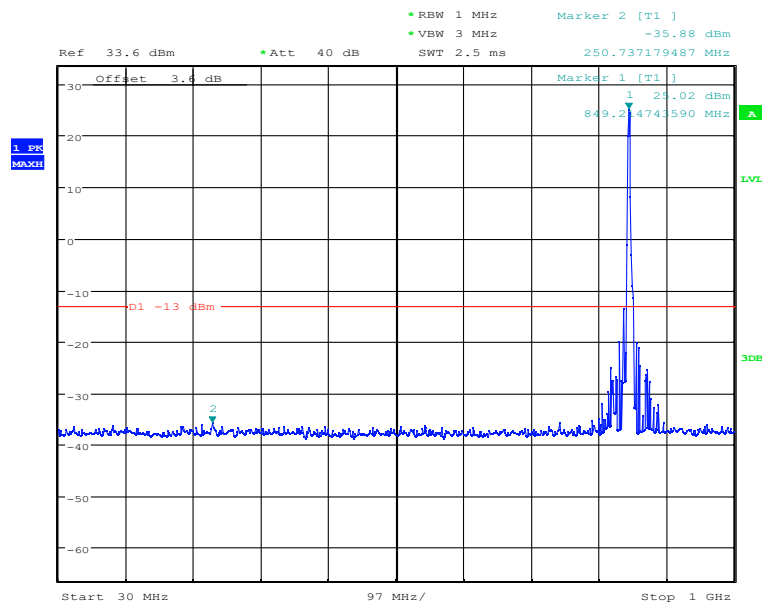
Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



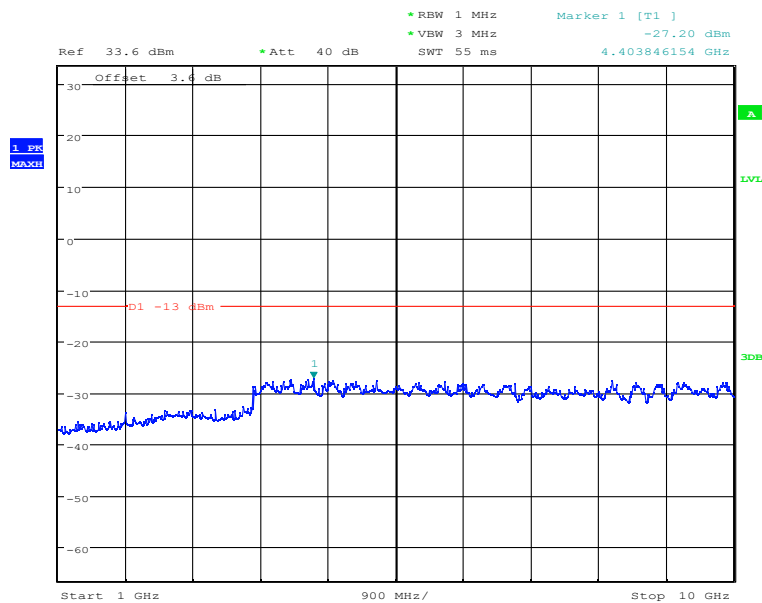
Report No.: I21W00004-WWAN_Rev2

5.3.10 CAT-M B5 Conducted Spurious Emission Results



Date: 2.JAN.2021 03:56:18

High Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 03:55:44

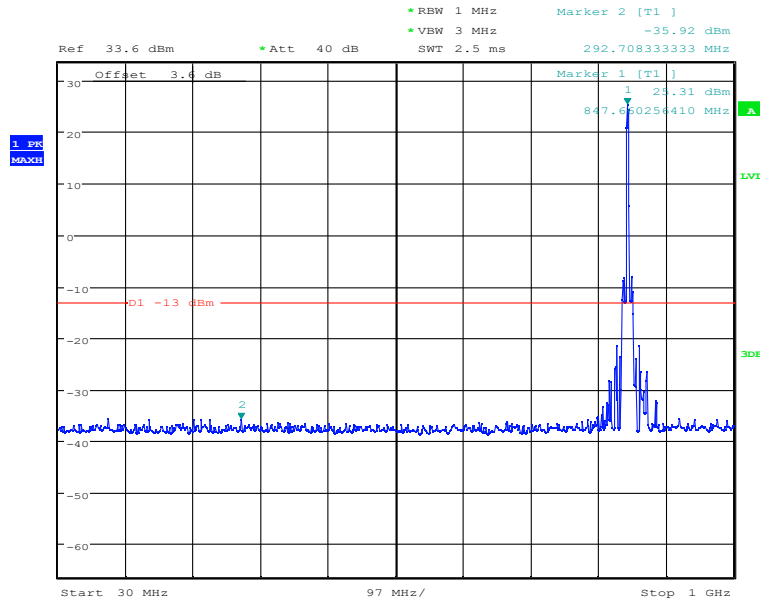
High Channel-1.4MHz Bandwidth-1GHz to 10GHz

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

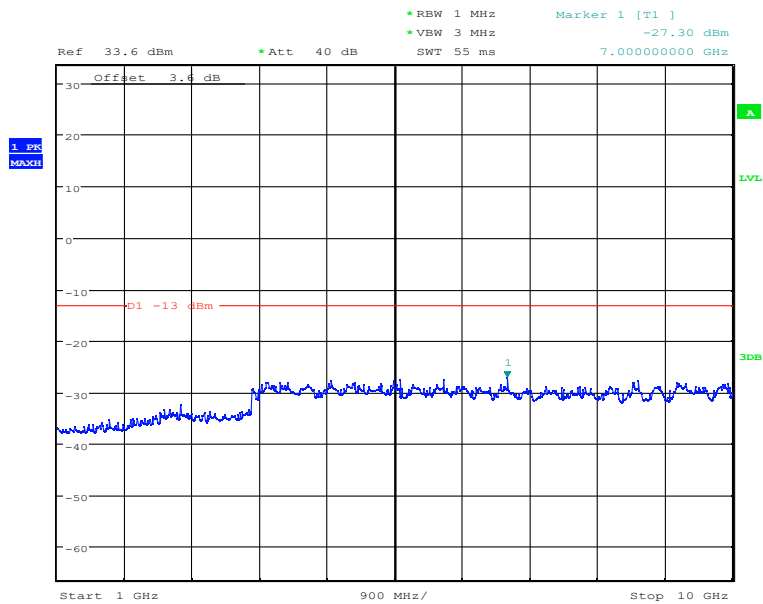


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:01:24

High Channel-3MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:01:48

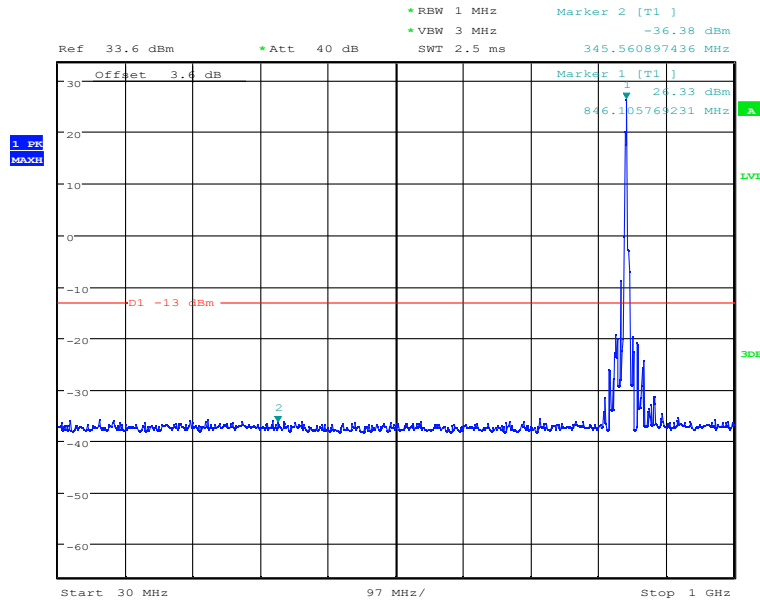
High Channel-3MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

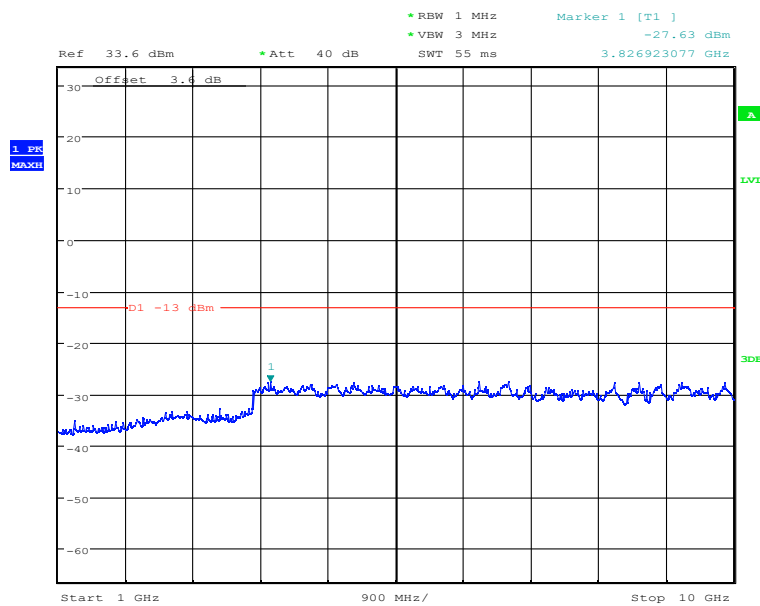


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:09:19

High Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:08:10

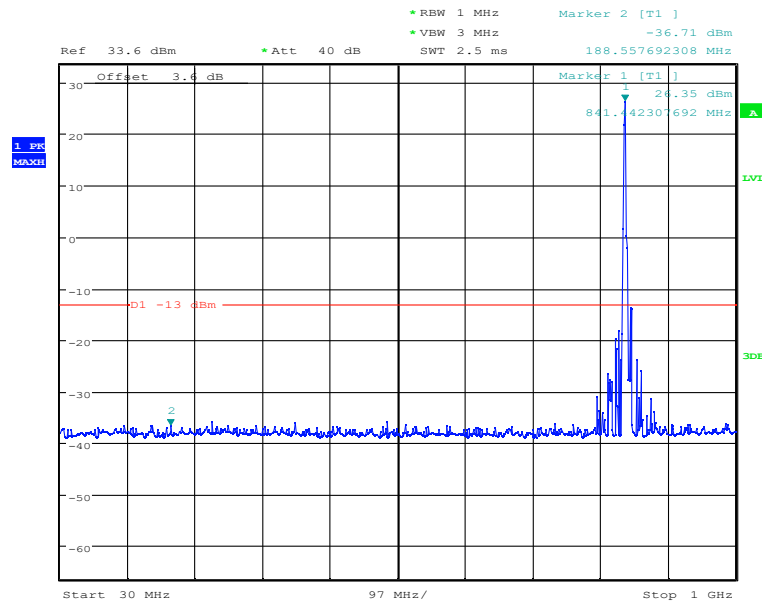
High Channel-5MHz Bandwidth-1GHz to 10GHz

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777

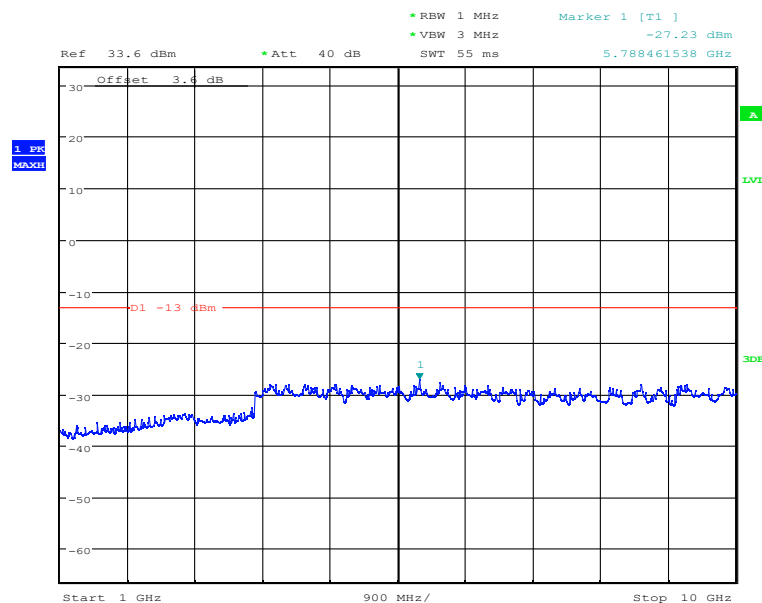


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:14:14

High Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:13:56

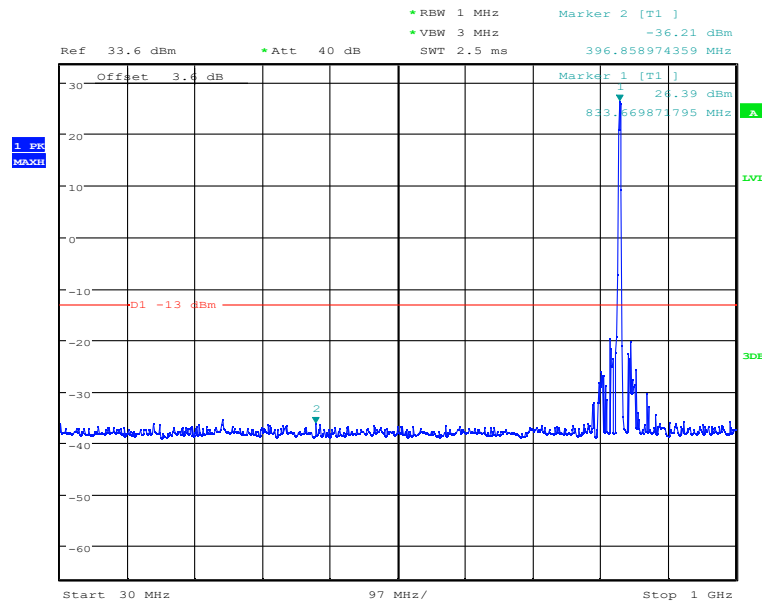
High Channel-10MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

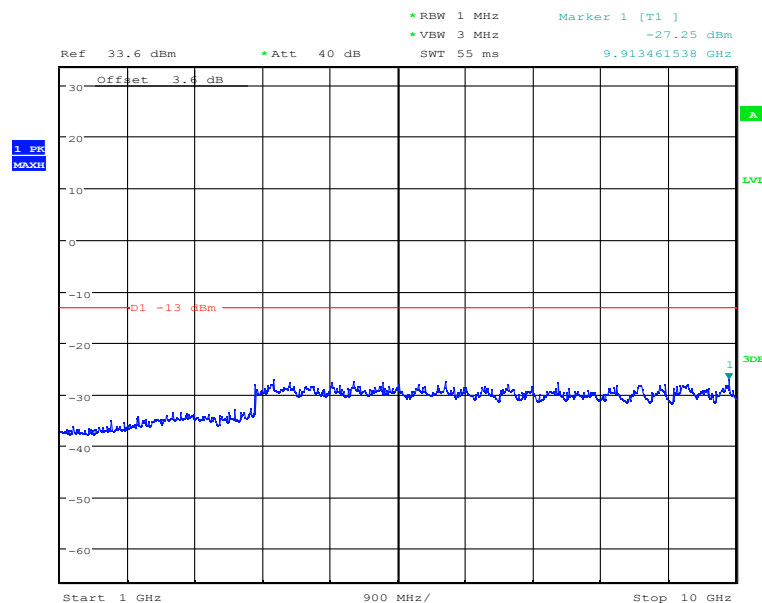


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:18:24

Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:18:02

Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

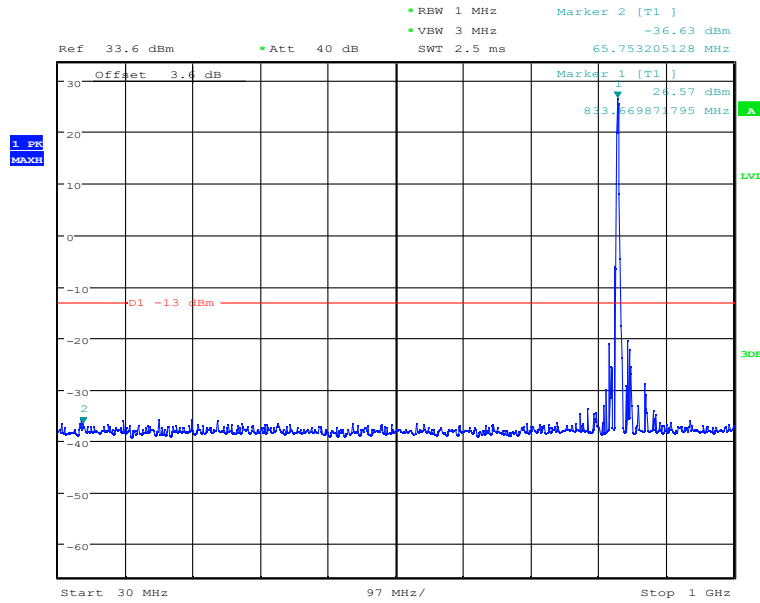
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



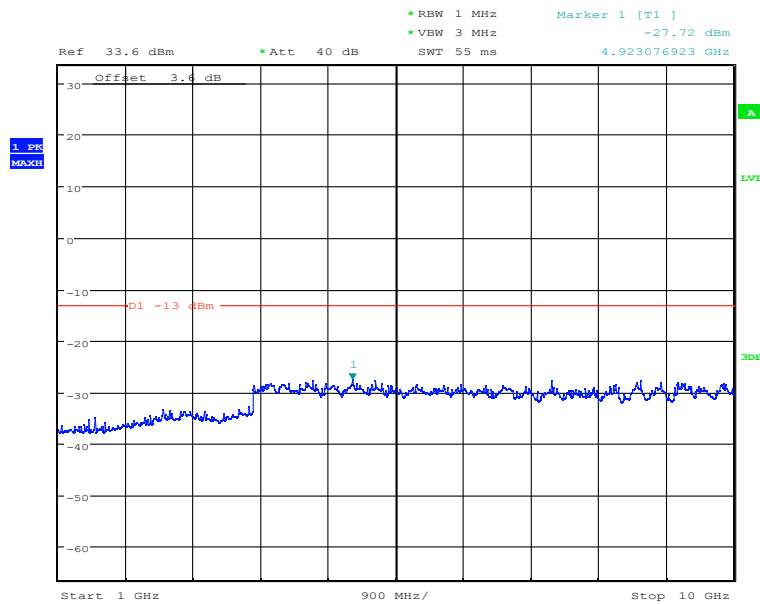


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:18:58

Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:17:29

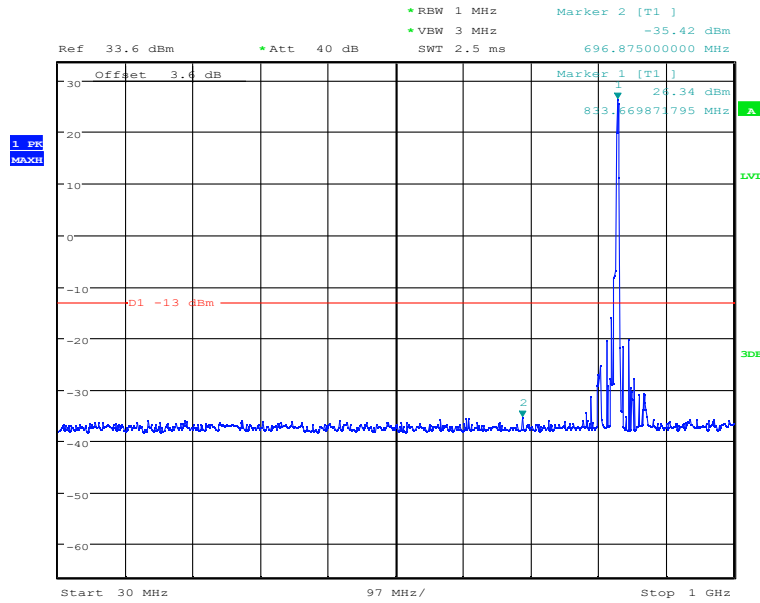
Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

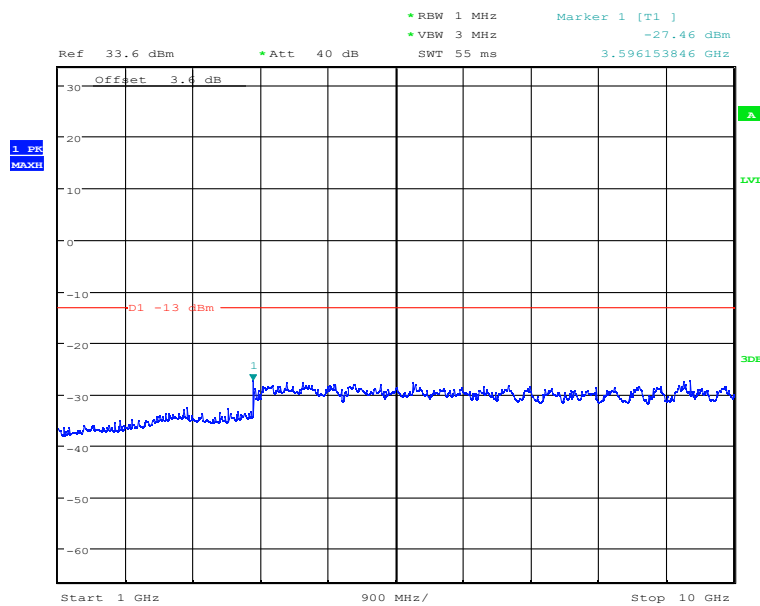


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:16:54

Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:17:15

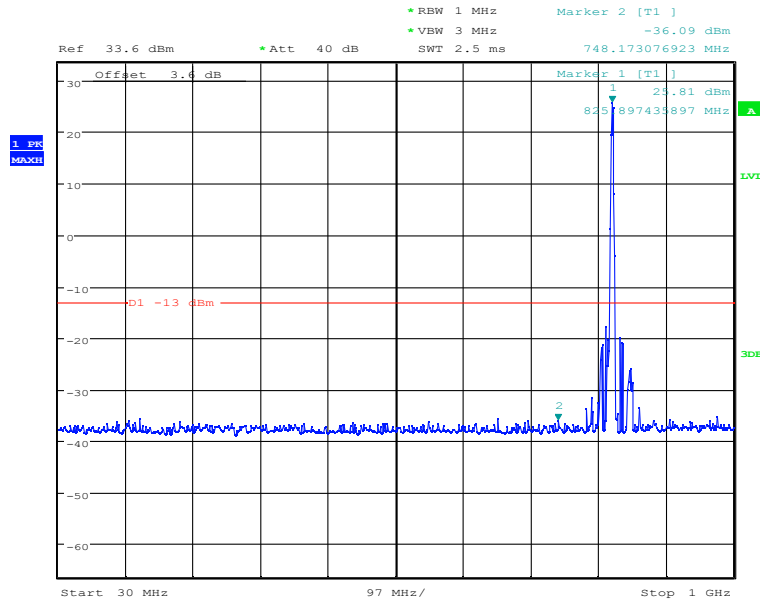
Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

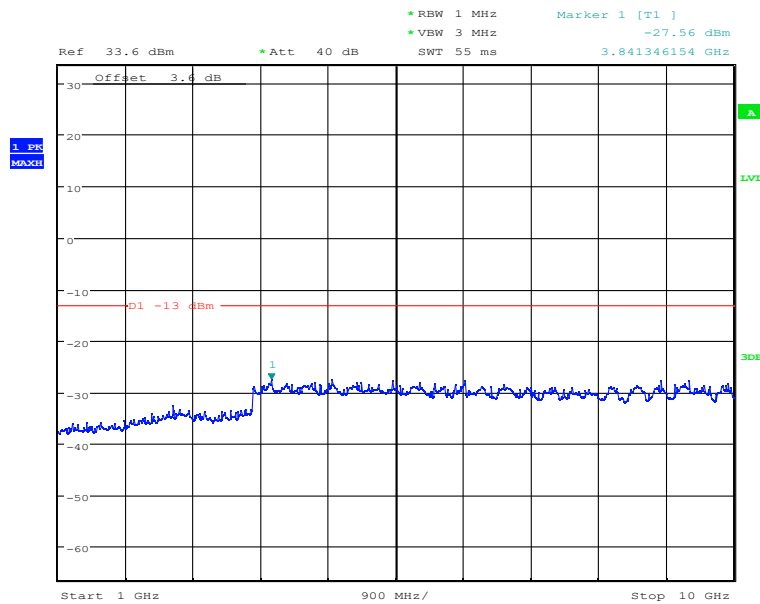


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 03:52:32

Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 03:52:51

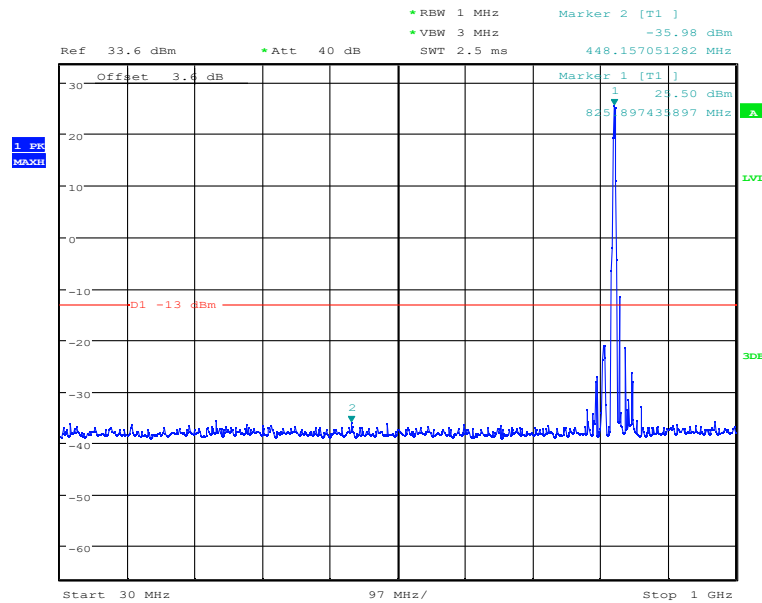
Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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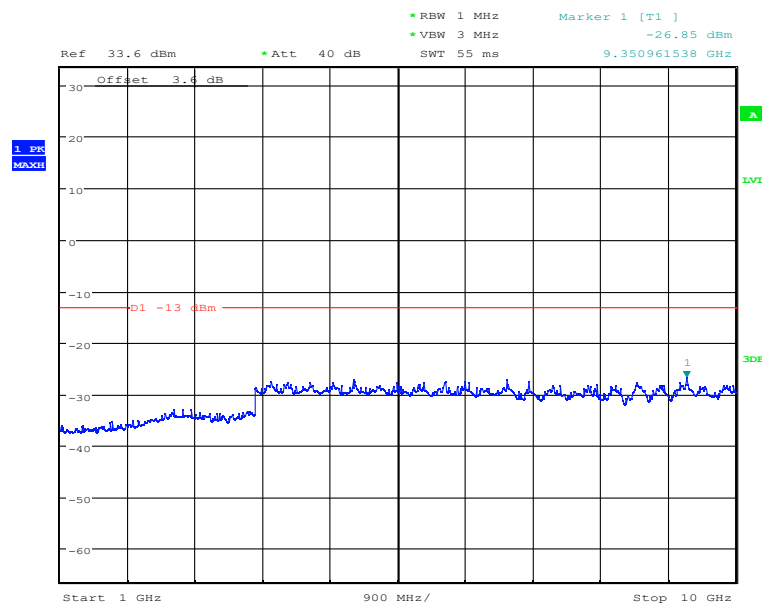


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:04:42

Low Channel-3MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:04:23

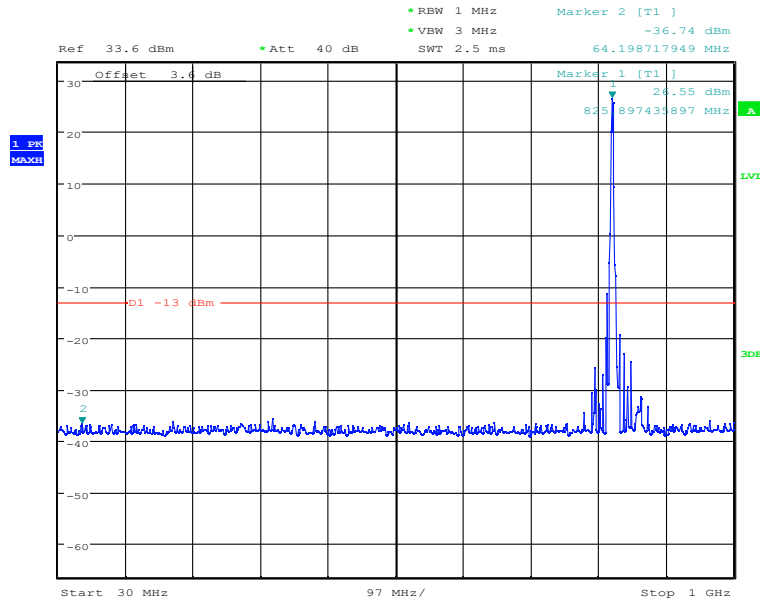
Low Channel-3MHz Bandwidth-1GHz to 10GHz

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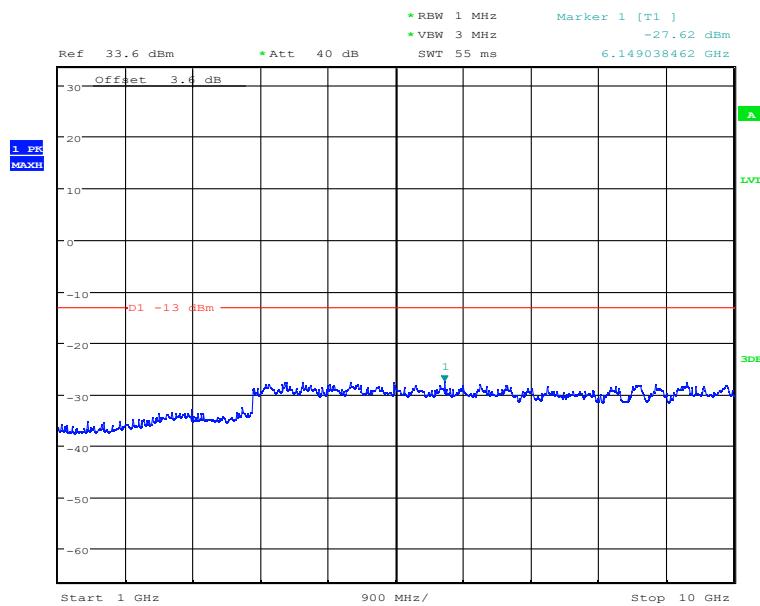


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:06:42

Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:07:09

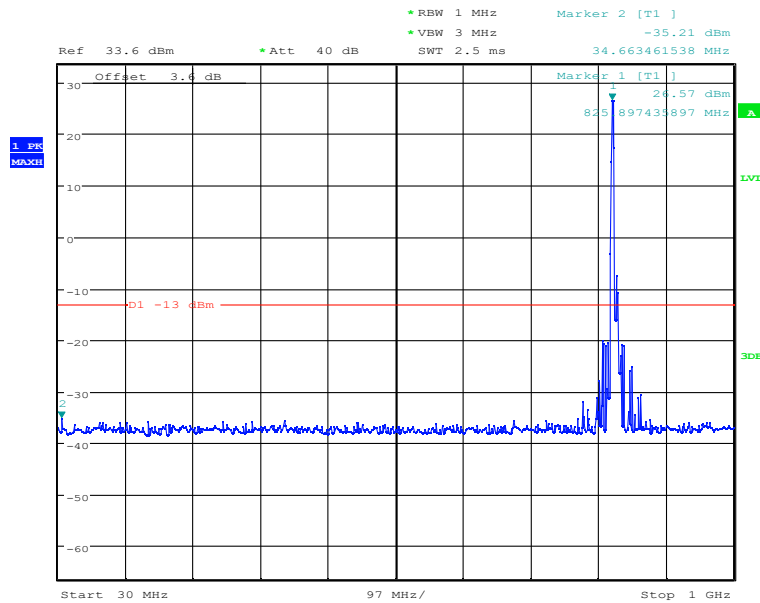
Low Channel-5MHz Bandwidth-1GHz to 10GHz

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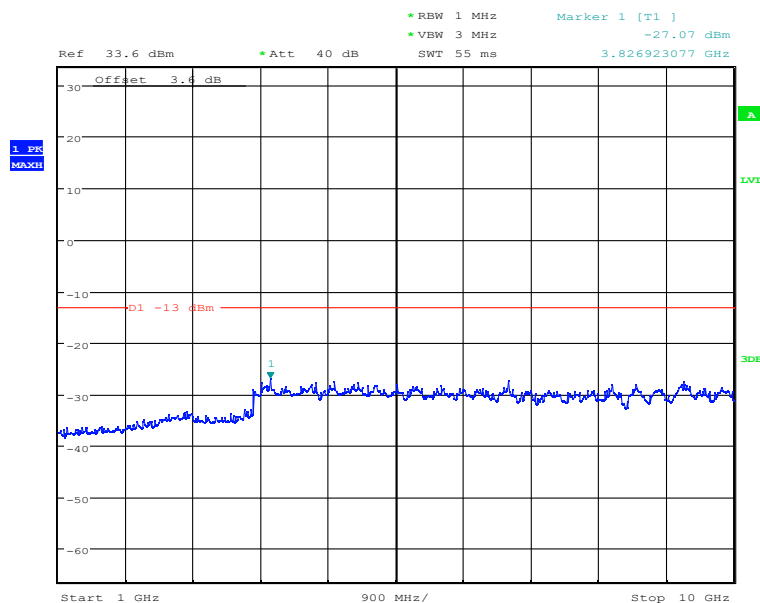


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 04:10:45

Low Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 04:11:04

Low Channel-10MHz Bandwidth-1GHz to 10GHz

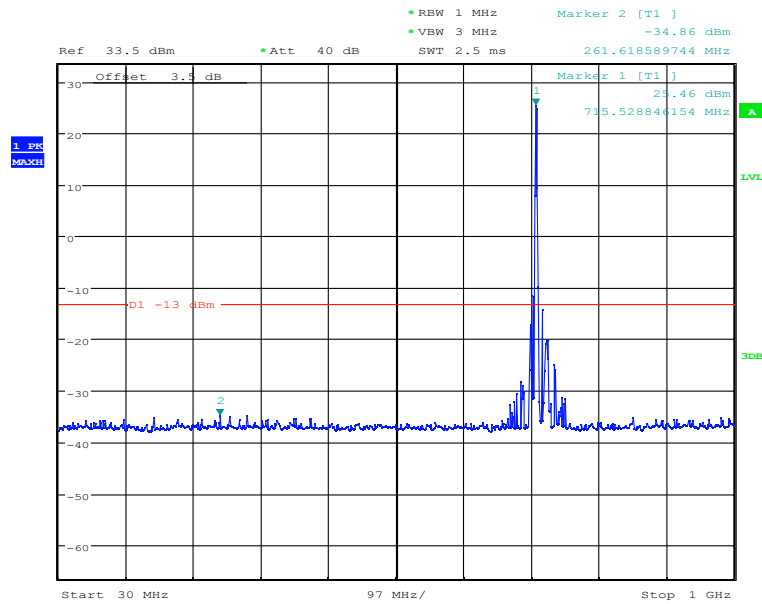
Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777



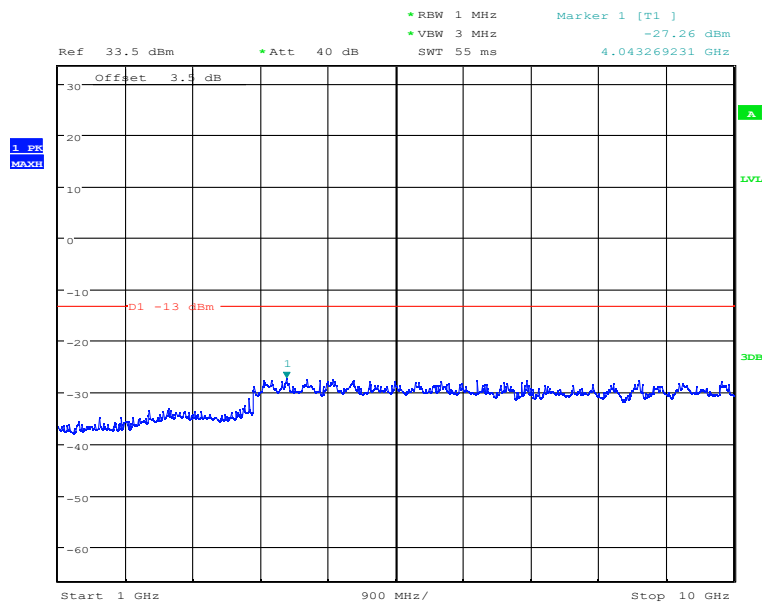
Report No.: I21W00004-WWAN_Rev2

5.3.10 CAT-M B12 Conducted Spurious Emission Results



Date: 30.DEC.2020 01:47:00

High Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:47:17

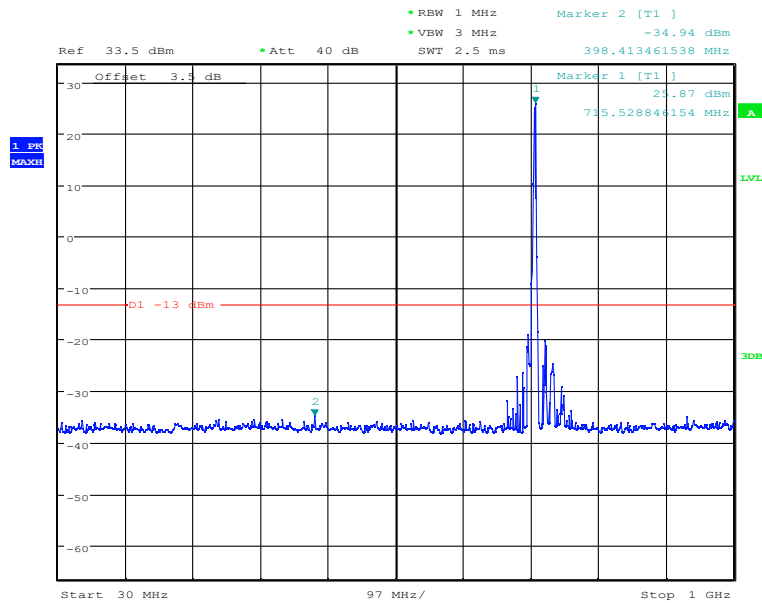
High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

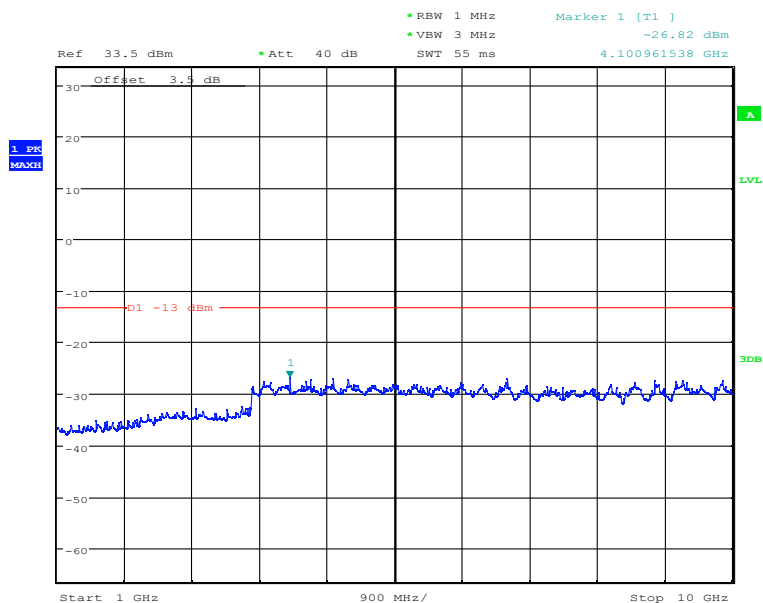


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:52:21

High Channel-3MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:51:19

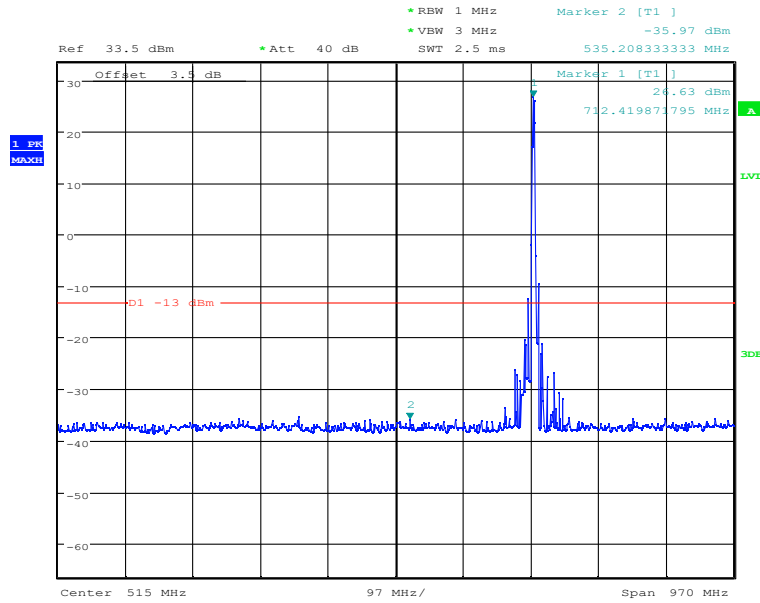
High Channel-3MHz Bandwidth-1GHz to 10GHz

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965 FAX:0086-23-88608777

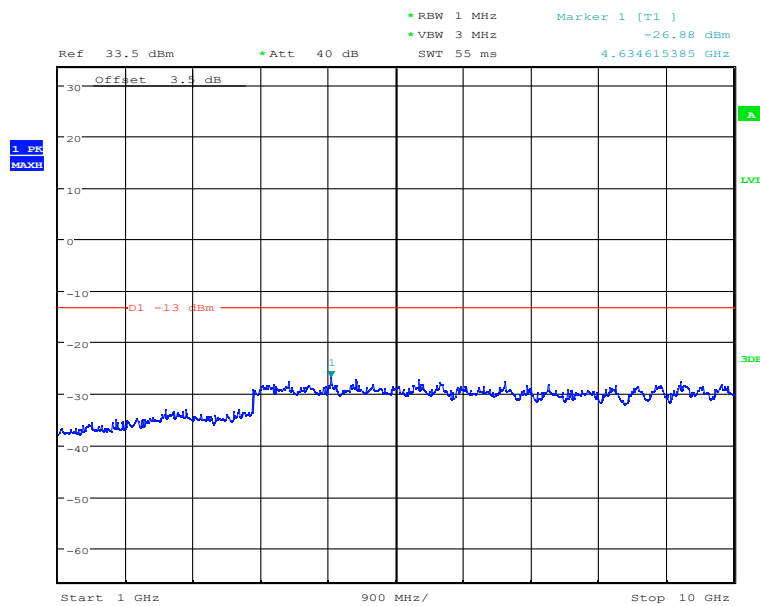


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:57:59

High Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:57:22

High Channel-5MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777



Ref 33.5 dBm * Att 40 dB SWT 2.5 ms 487.019230769 MHz

Offset 3.5 dB

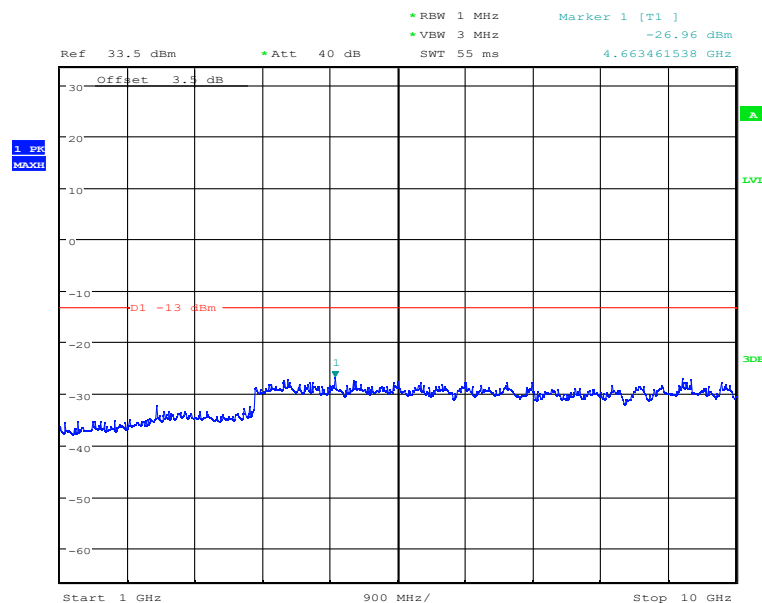
Marker 1 [T1] 24.30 dBm
709.31089436 MHz

Marker 2 [T1] 487.019230769 MHz

1.5% MAX

Start 30 MHz 97 MHz/ Stop 1 GHz

High Channel-10MHz Bandwidth-30MHz to 1GHz

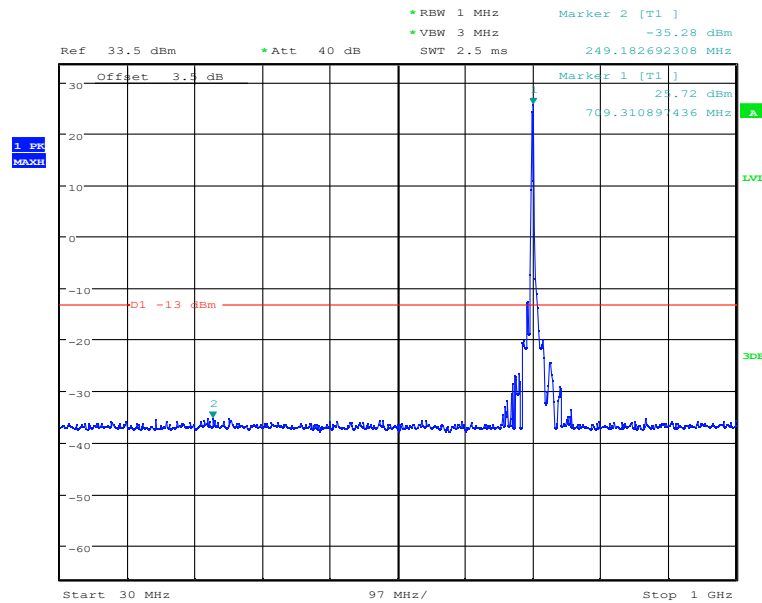


High Channel-10MHz Bandwidth-1GHz to 10GHz

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

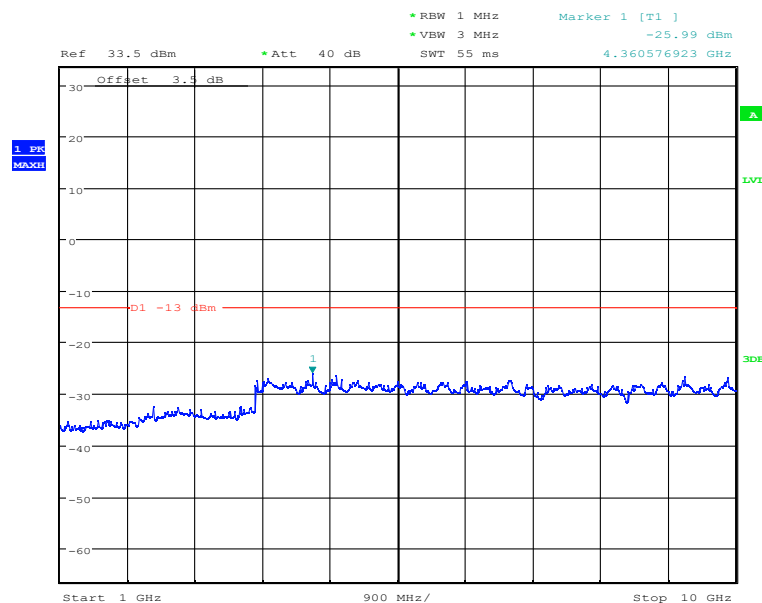


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:35:20

Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:41:56

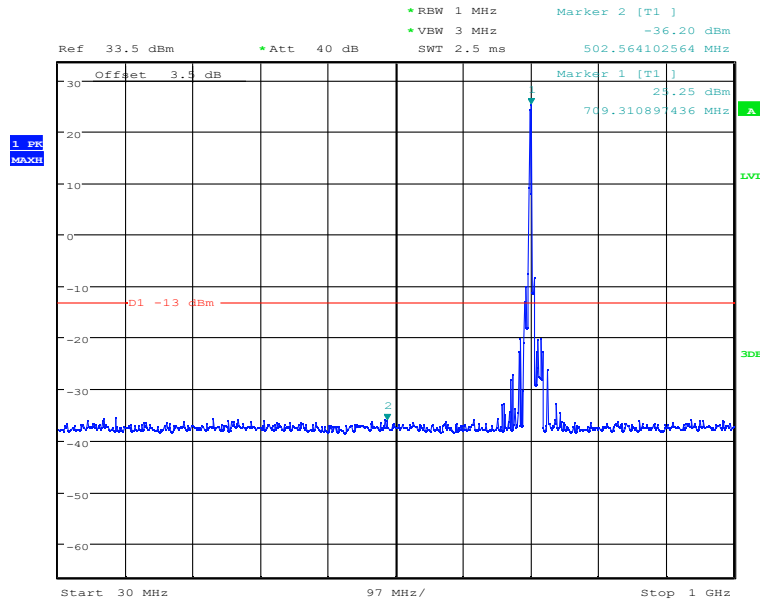
Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

Chongqing Academy of Information and Communication Technology

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777

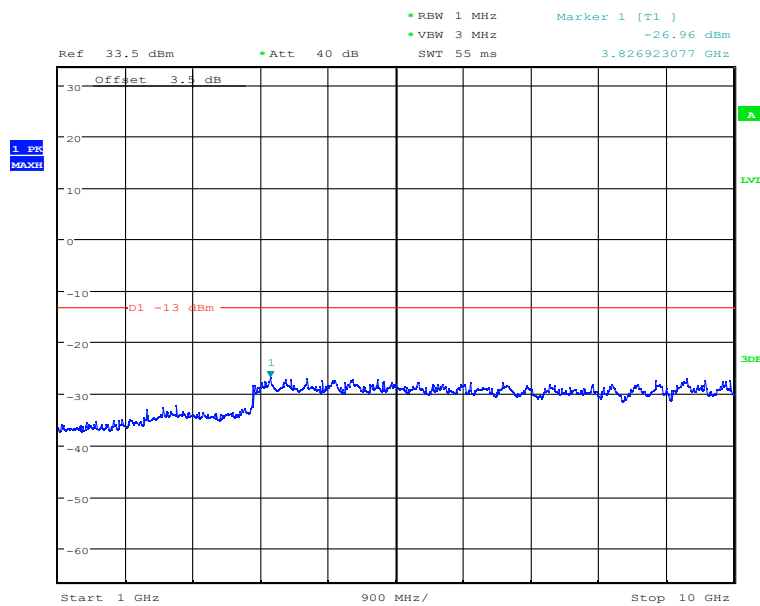


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:35:54

Middle Channel-3MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:41:02

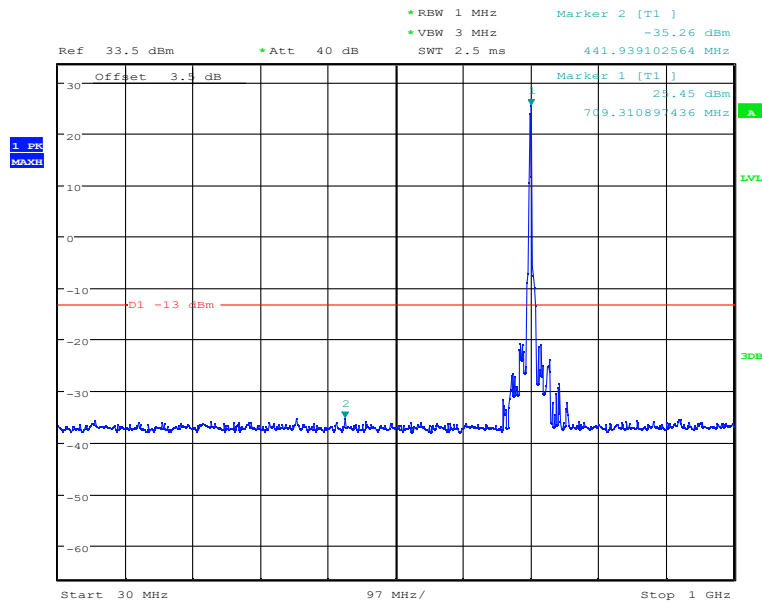
Middle Channel-3MHz Bandwidth-1GHz to 10GHz

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Tel: 0086-23-88069965 FAX:0086-23-88608777

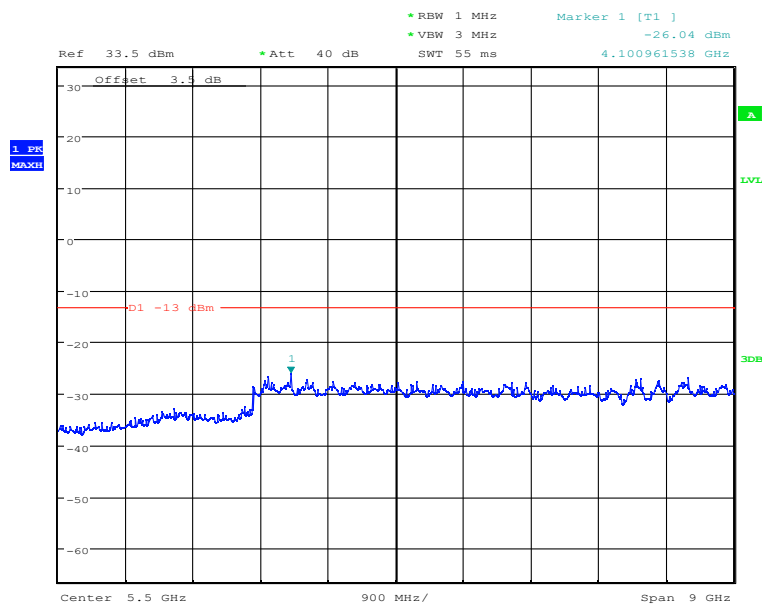


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:37:08

Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:40:18

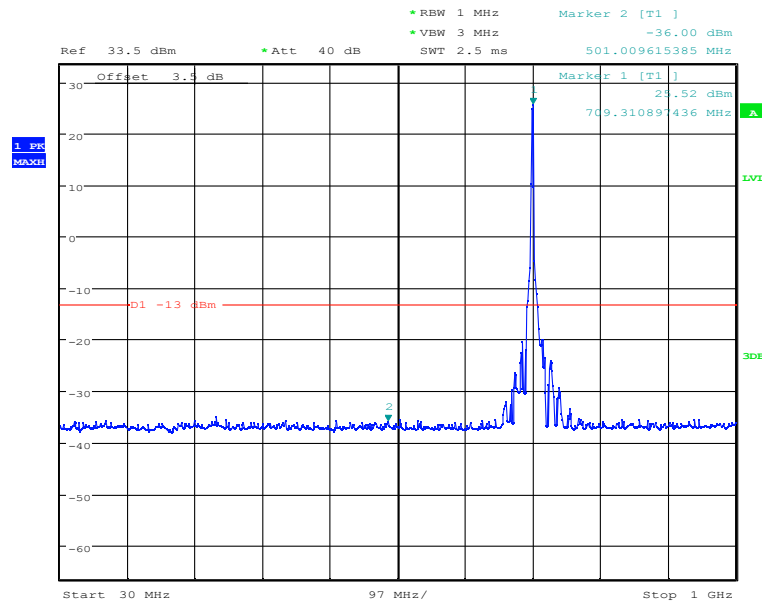
Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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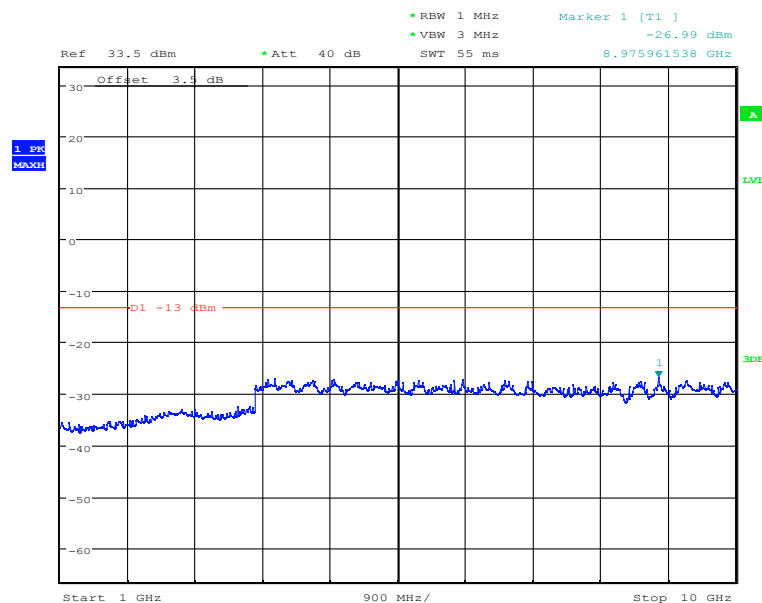


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:38:58

Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:39:57

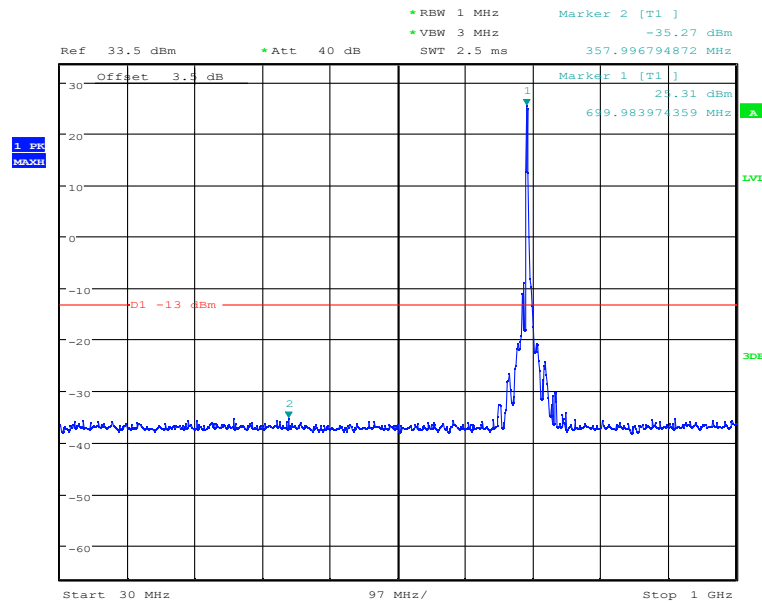
Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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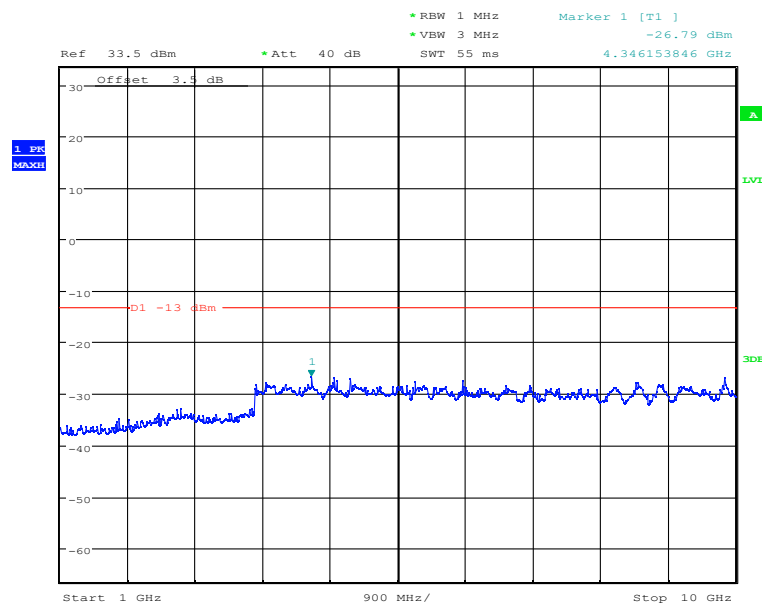


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:32:15

Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:32:38

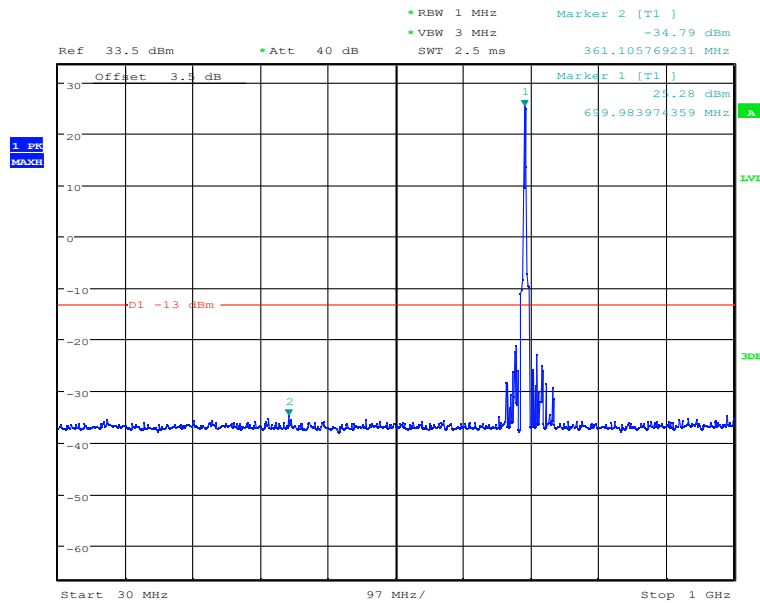
Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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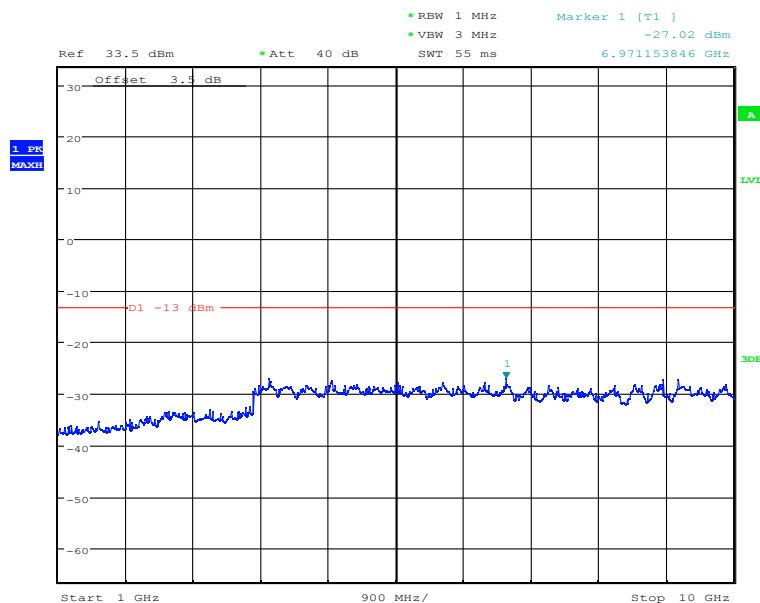


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:49:44

Low Channel-3MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:49:59

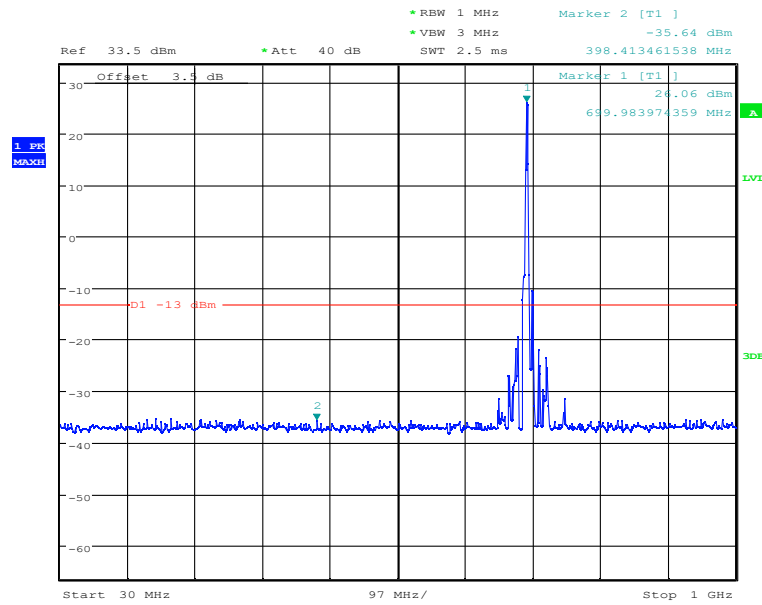
Low Channel-3MHz Bandwidth-1GHz to 10GHz

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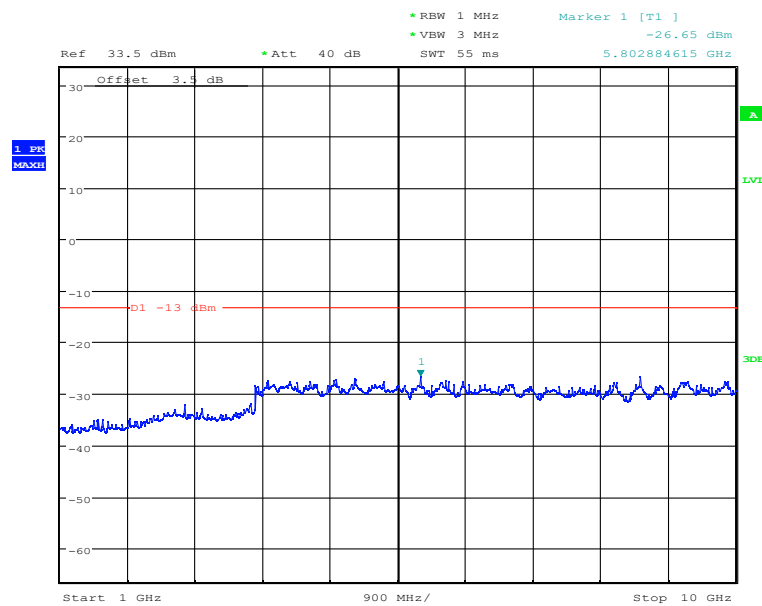


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 01:54:36

Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:55:08

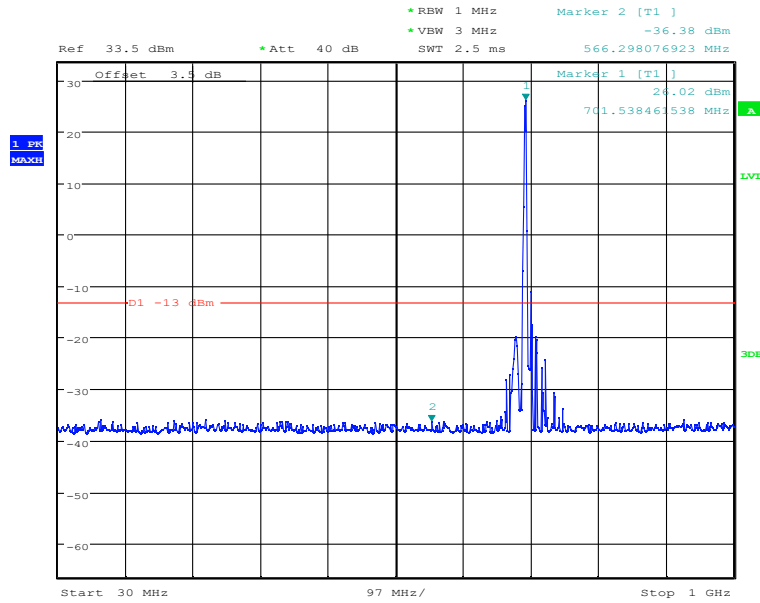
Low Channel-5MHz Bandwidth-1GHz to 10GHz

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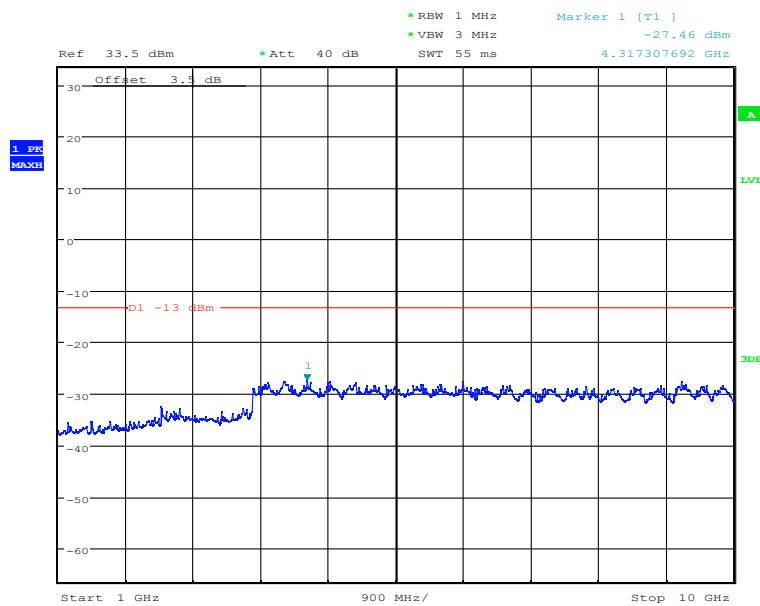


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 02:00:13

Low Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 01:59:32

Low Channel-10MHz Bandwidth-1GHz to 10GHz

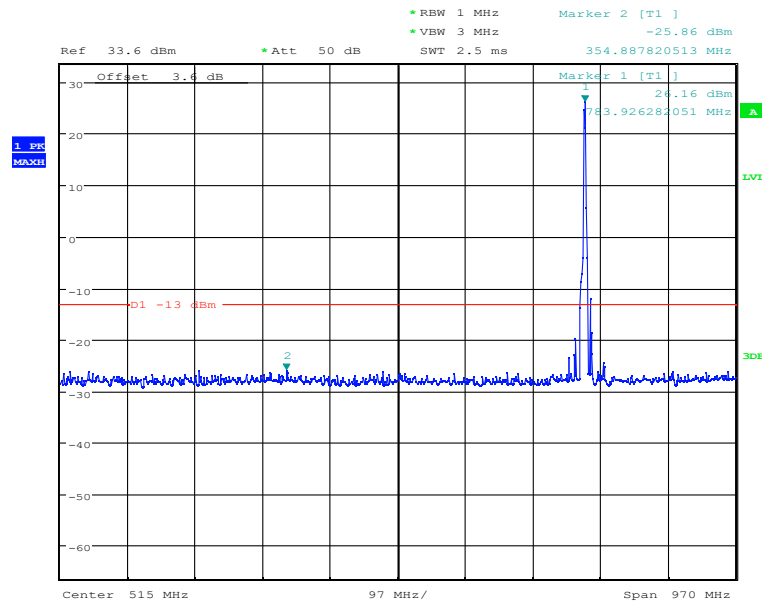
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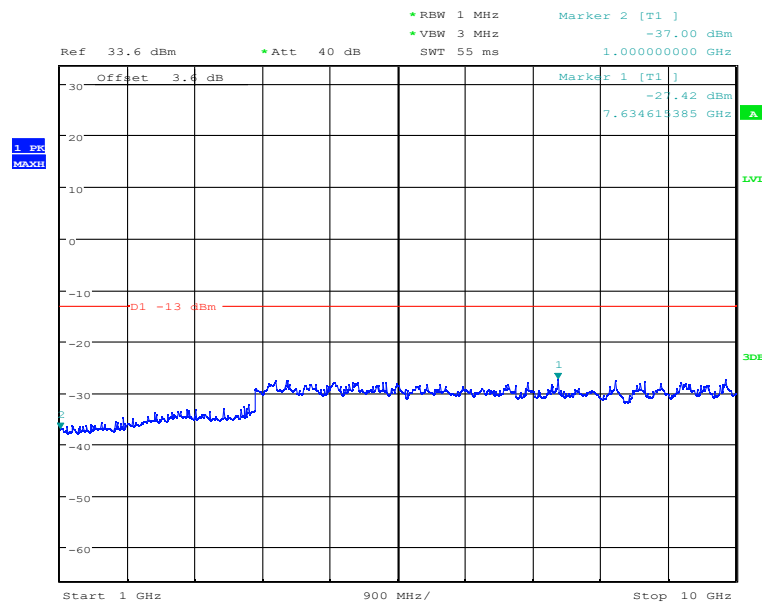
Report No.: I21W00004-WWAN_Rev2

5.3.11 CAT-M B13 Conducted Spurious Emission Results



Date: 2.JAN.2021 03:36:38

High Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 03:37:11

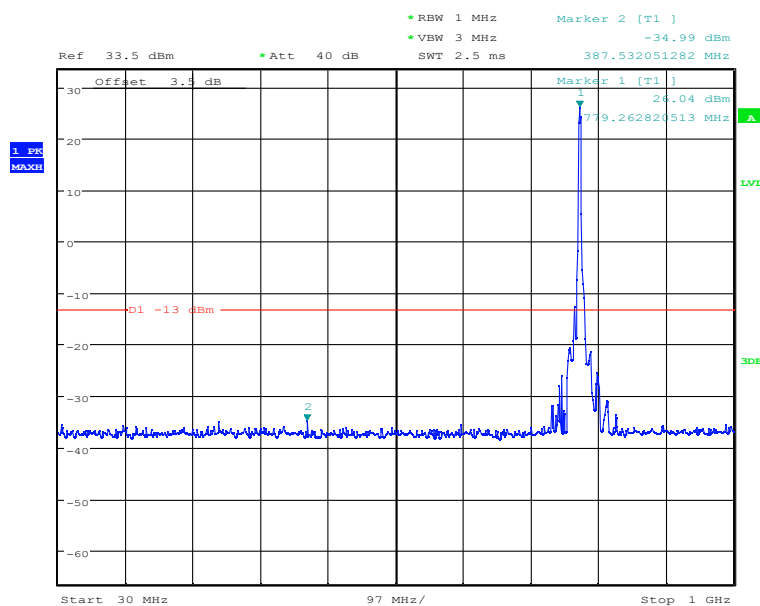
High Channel-5MHz Bandwidth-1GHz to 10GHz

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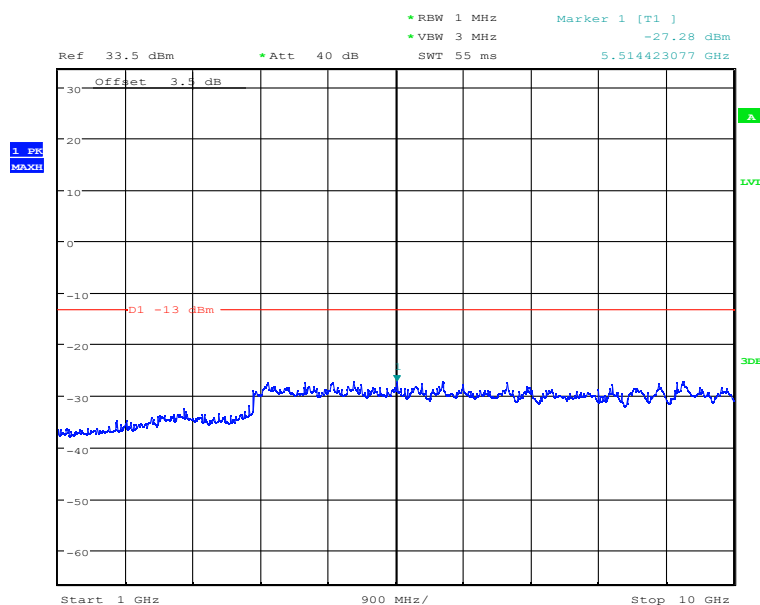


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 02:33:35

High Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 02:33:54

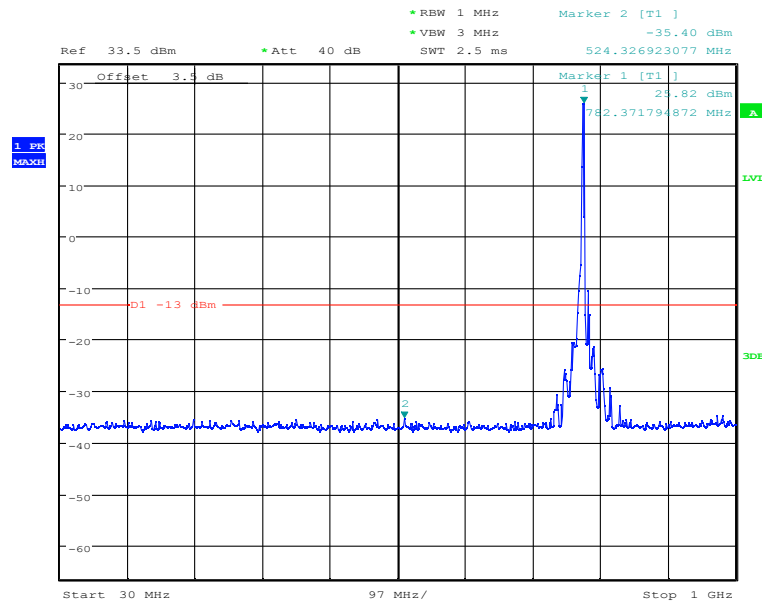
High Channel-10MHz Bandwidth-1GHz to 10GHz

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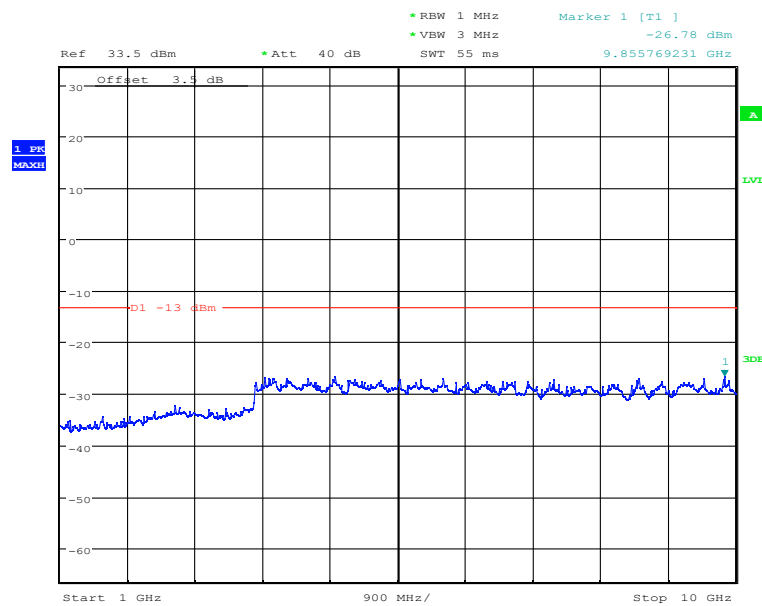


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 02:07:48

Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 02:10:25

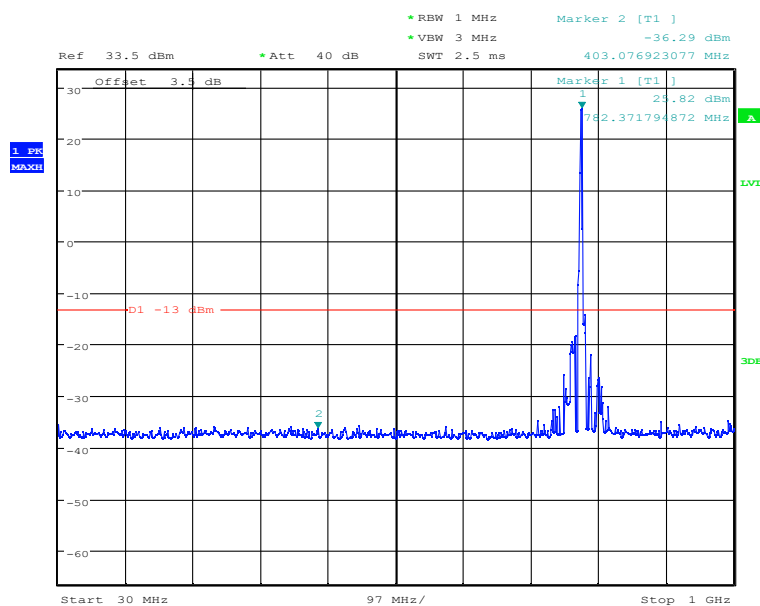
Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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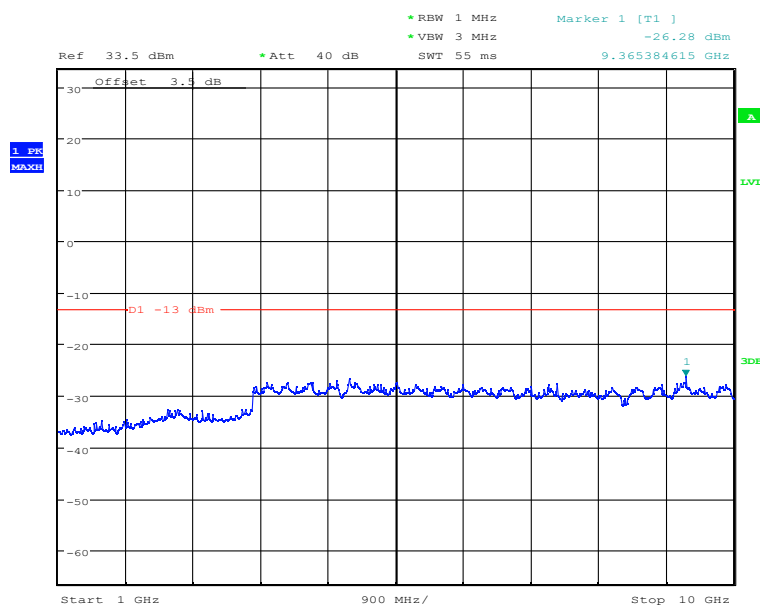


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 02:11:39

Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 02:12:14

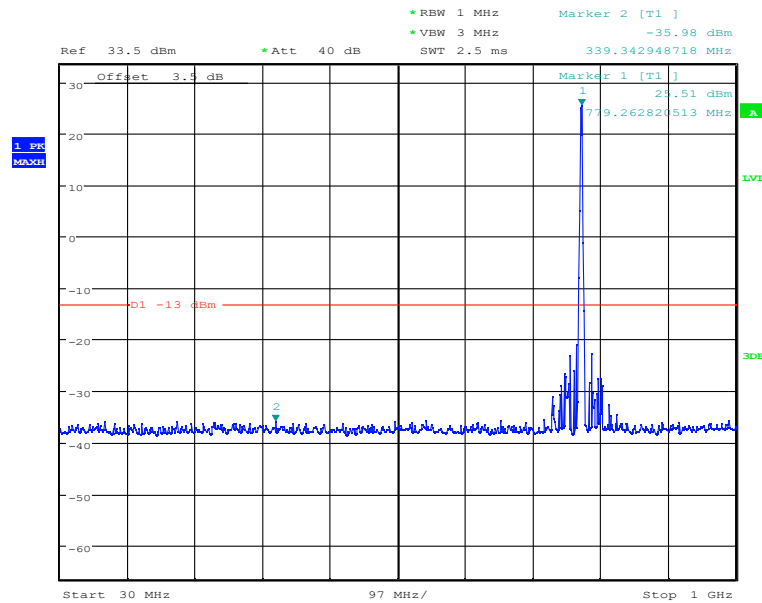
Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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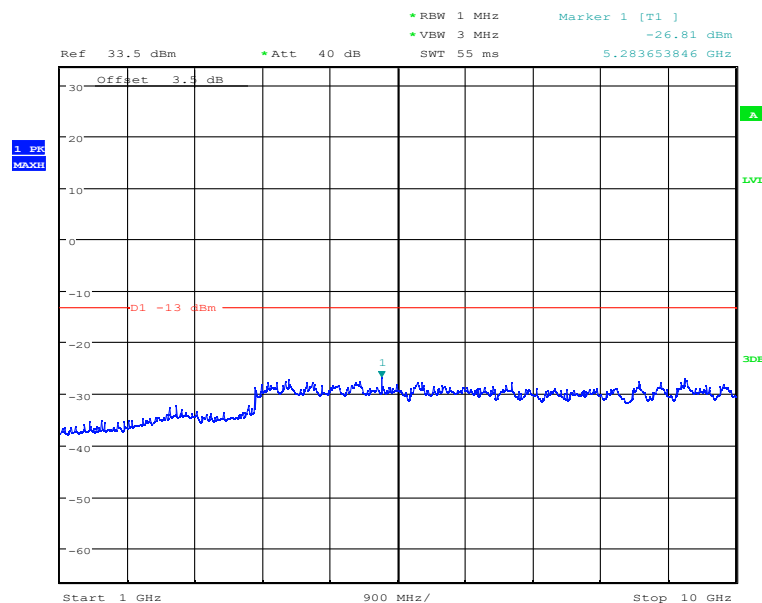


Report No.: I21W00004-WWAN_Rev2



Date: 30.DEC.2020 02:04:58

Low Channel-5MHz Bandwidth-30MHz to 1GHz



Date: 30.DEC.2020 02:05:14

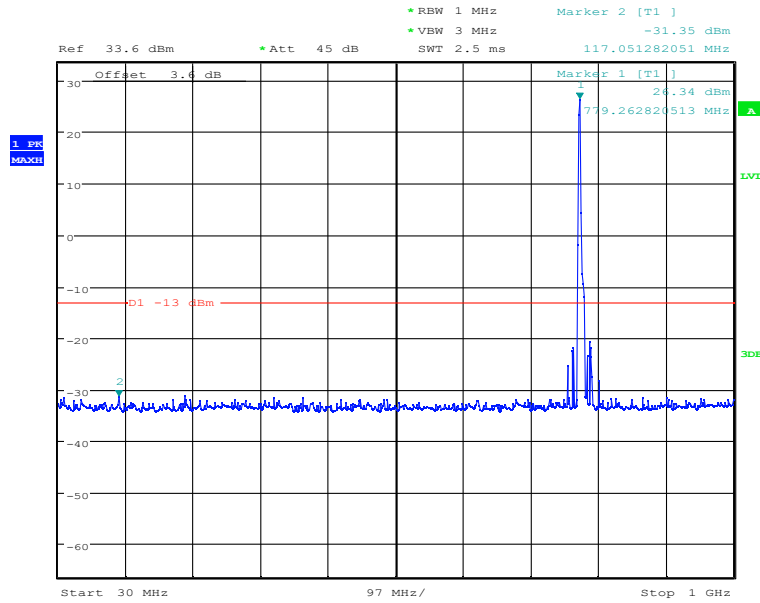
Low Channel-5MHz Bandwidth-1GHz to 10GHz

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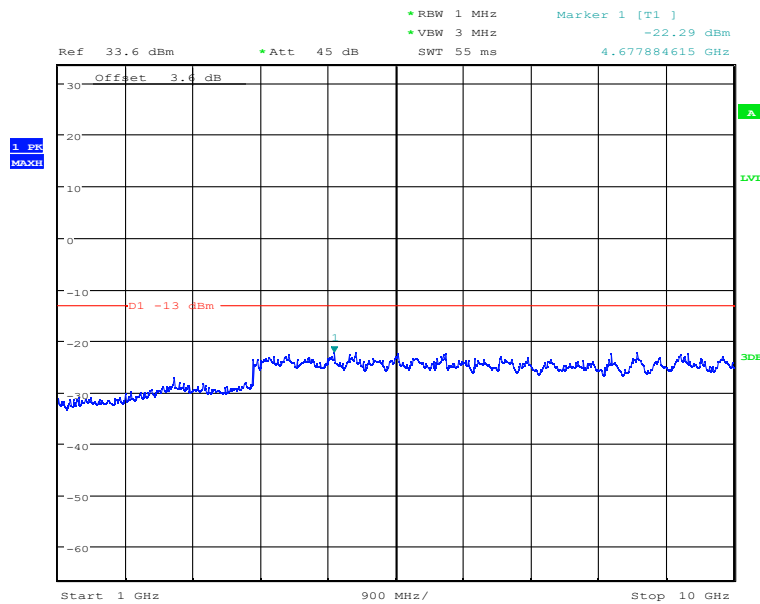


Report No.: I21W00004-WWAN_Rev2



Date: 2.JAN.2021 03:28:10

Low Channel-10MHz Bandwidth-30MHz to 1GHz



Date: 2.JAN.2021 03:27:49

Low Channel-10MHz Bandwidth-1GHz to 10GHz

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5.4 Radiated Spurious Emission

Specifications:	FCC Part 2.1051, 2.1053, 24.238, 22.917, 27.53
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 24.238 (a), i.e., Out of Band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$.

According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

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Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	5.15 dB (k=2)

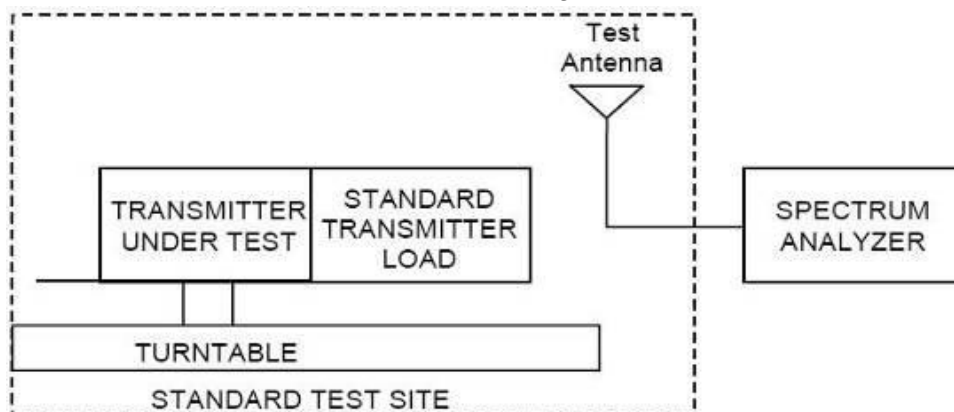
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

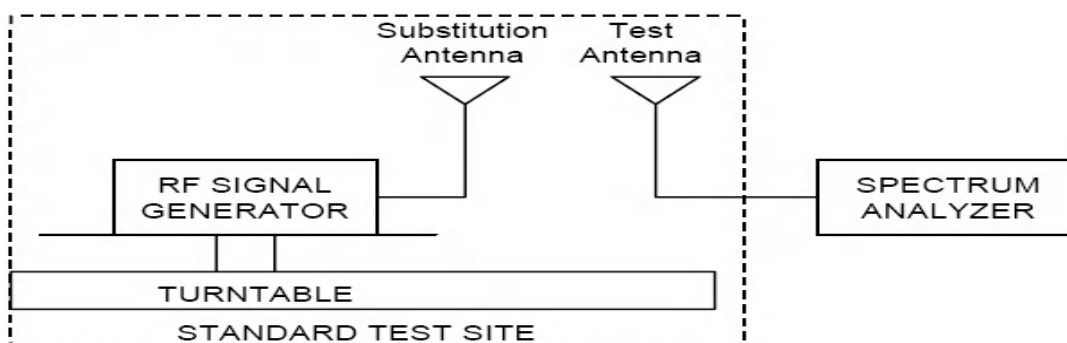
Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.



(c) Remove the transmitter and replace it with a substitution antenna. The center of the

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substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Note: --.



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5.4.1 GSM850 Radiated Spurious Emission Results

Test Data (GMSK Mode channel 128)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1648.4	-53.9	4.8	7.3	-51.4	V
2472.6	-49.4	6.0	6.8	-48.6	V
3296.8	-63.8	6.7	8.9	-61.6	V
4121.0	-58.9	7.6	9.2	-57.3	V
4945.2	-65.4	7.7	9.9	-63.2	V
5769.4	-72.2	1.5	10.5	-63.2	V

Test Data (GMSK Mode channel 190)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1672.8	-55.7	4.7	7.3	-53.1	V
2509.2	-49.4	5.9	6.7	-48.6	V
3345.6	-66.2	6.8	8.9	-64.1	V
4182.0	-52.3	7.8	9.2	-50.9	V
5018.4	-62.9	7.5	9.9	-60.5	V
5854.8	-72.1	1.1	10.5	-62.7	V

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Test Data (GMSK Mode channel 251)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1697.6	-54.6	4.8	8.0	-51.4	V
2546.4	-49.3	5.9	6.9	-48.3	V
3395.2	-68.8	6.9	8.9	-66.8	V
4244.0	-60.1	7.8	9.2	-58.7	V
5092.8	-65.1	6.8	9.9	-62.0	V
5941.6	-71.9	1.4	10.9	-62.4	V

5.4.2 PCS1900 Radiated Spurious Emission Results

Test Data (GMSK Mode channel 512)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3700.4	-57.0	7.2	8.9	-55.3	V
5550.6	-61.9	2.0	10.5	-53.4	V
7400.8	-61.5	0.9	11.9	-50.5	V
9251.0	-56.1	1.0	11.5	-45.6	V
11101.2	-56.5	0.3	12.1	-44.7	V
12951.4	-55.8	0.4	12.4	-43.8	V

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-55.9	7.3	8.9	-54.3	V
5640.0	-61.6	1.8	10.5	-52.9	V
7520.0	-61.4	0.9	11.9	-50.4	V
9400.0	-57.1	0.8	11.8	-46.1	V
11280.0	-56.3	0.3	12.1	-44.5	V
13160.0	-55.8	0.4	12.4	-43.8	V

Test Data (GMSK Mode channel 810)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3819.6	-56.9	7.4	9.2	-55.1	V
5729.4	-62.2	1.5	10.5	-53.2	V
7639.2	-61.2	1.1	11.9	-50.4	V
9549.0	-59.4	0.9	11.8	-48.5	V
11458.8	-58.2	0.8	12.2	-46.8	V
13368.6	-57.2	0.4	12.4	-45.2	V



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5.4.3 CAT-M B2 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 18607 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3701.4	-67.2	7.2	8.9	-65.5	V
5552.1	-61.1	2.5	10.5	-53.1	V
7402.8	-72.2	0.9	11.9	-61.2	V
9253.5	-70.1	1.0	11.5	-59.6	V
11104.2	-71.3	0.3	12.1	-59.5	V
12954.9	-69.5	0.4	12.4	-57.5	V

Test Data (1.4MHz bandwidth 18607 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3701.4	-66.9	7.2	8.9	-65.2	V
5552.1	-70.6	2.5	10.5	-62.6	V
7402.8	-72.5	0.9	11.9	-61.5	V
9253.5	-70.3	1.0	11.5	-59.8	V
11104.2	-71.3	0.3	12.1	-59.5	V
12954.9	-70.9	0.4	12.4	-58.9	V

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Test Data (1.4MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-59.9	7.3	8.9	-58.3	V
5640.0	-69.2	1.8	10.5	-60.5	V
7520.0	-69.2	0.9	11.9	-58.2	V
9400.0	-70.1	0.8	11.8	-59.1	V
11280.0	-71.2	0.3	12.1	-59.4	V
13160.0	-69.5	0.4	12.4	-57.5	V

Test Data (1.4MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-67.1	7.3	8.9	-65.5	V
5640.0	-72.2	1.8	10.5	-63.5	V
7520.0	-71.6	0.9	11.9	-60.6	V
9400.0	-70.2	0.8	11.8	-59.2	V
11280.0	-71.3	0.3	12.1	-59.5	V
13160.0	-70.9	0.4	12.4	-58.9	V

Test Data (1.4MHz bandwidth 19192 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3818.4	-67.0	7.4	9.2	-65.2	V
5727.6	-71.9	1.5	10.5	-62.9	V
7636.8	-69.9	1.1	11.9	-59.1	V
9546.0	-70.2	0.9	11.8	-59.3	V
11455.2	-71.7	0.3	12.2	-59.8	V
13364.4	-69.6	0.4	12.4	-57.6	V

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Test Data (1.4MHz bandwidth 19192 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3818.4	-67.0	7.4	9.2	-65.2	V
5727.6	-72.3	1.5	10.5	-63.3	V
7636.8	-72.2	1.1	11.9	-61.4	V
9546.0	-70.5	0.9	11.8	-59.6	V
11455.2	-72.2	0.3	12.2	-60.3	V
13364.4	-70.5	0.4	12.4	-58.5	V

Test Data (3MHz bandwidth 18615 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3703.0	-67.8	7.2	8.9	-66.1	V
5554.5	-68.7	2.0	10.5	-60.2	V
7406.0	-72.5	0.9	11.9	-61.5	V
9257.5	-70.3	1.0	11.5	-59.8	V
11109.0	-71.3	0.4	12.1	-59.6	V
12960.5	-70.5	0.4	12.4	-58.5	V

Test Data (3MHz bandwidth 18615 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3703.0	-67.4	7.2	8.9	-65.7	V
5554.5	-71.2	2.0	10.5	-62.7	V
7406.0	-72.8	0.9	11.9	-61.8	V
9257.5	-70.1	1.0	11.5	-59.6	V
11109.0	-71.1	0.4	12.1	-59.4	V
12960.5	-70.5	0.4	12.4	-58.5	V

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Test Data (3MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-59.9	7.3	8.9	-58.3	V
5640.0	-71.8	1.8	10.5	-63.1	V
7520.0	-72.1	0.9	11.9	-61.1	V
9400.0	-70.0	0.8	11.8	-59.0	V
11280.0	-71.2	0.3	12.1	-59.4	V
13160.0	-70.7	0.4	12.4	-58.7	V

Test Data (3MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-66.8	7.3	8.9	-65.2	V
5640.0	-71.7	1.8	10.5	-63.0	V
7520.0	-72.0	0.9	11.9	-61.0	V
9400.0	-70.4	0.8	11.8	-59.4	V
11280.0	-70.9	0.3	12.1	-59.1	V
13160.0	-70.5	0.4	12.4	-58.5	V

Test Data (3MHz bandwidth 19184 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3816.4	-62.5	7.4	9.2	-60.7	V
5724.8	-71.6	1.4	10.5	-62.5	V
7633.2	-71.8	1.1	11.9	-61.0	V
9541.6	-70.3	0.9	11.8	-59.4	V
11450.0	-71.0	0.8	12.2	-59.6	V
13358.4	-71.1	0.4	12.4	-59.1	V

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Test Data (3MHz bandwidth 19184 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3816.4	-67.0	7.4	9.2	-65.2	V
5724.8	-71.1	1.4	10.5	-62.0	V
7633.2	-71.9	1.1	11.9	-61.1	V
9541.6	-70.2	0.9	11.8	-59.3	V
11450.0	-71.5	0.8	12.2	-60.1	V
13358.4	-70.9	0.4	12.4	-58.9	V

Test Data (5MHz bandwidth 18625 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3705.0	-57.8	7.2	8.9	-56.1	V
5557.5	-71.1	2.5	10.5	-63.1	V
7410.0	-72.4	0.9	11.9	-61.4	V
9262.5	-70.3	1.0	11.5	-59.8	V
11115.0	-71.0	0.3	12.1	-59.2	V
12967.5	-70.3	0.4	12.4	-58.3	V

Test Data (5MHz bandwidth 18625 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3705.0	-67.3	7.2	8.9	-65.6	V
5557.5	-71.3	2.5	10.5	-63.3	V
7410.0	-72.8	0.9	11.9	-61.8	V
9262.5	-70.4	1.0	11.5	-59.9	V
11115.0	-70.7	0.3	12.1	-58.9	V
12967.5	-70.6	0.4	12.4	-58.6	V

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Test Data (5MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-62.9	7.3	8.9	-61.3	V
5640.0	-68.6	1.8	10.5	-59.9	V
7520.0	-71.9	0.9	11.9	-60.9	V
9400.0	-68.8	0.8	11.8	-57.8	V
11280.0	-70.9	0.3	12.1	-59.1	V
13160.0	-70.9	0.4	12.4	-58.9	V

Test Data (5MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-67.0	7.3	8.9	-65.4	V
5640.0	-71.9	1.8	10.5	-63.2	V
7520.0	-71.8	0.9	11.9	-60.8	V
9400.0	-70.2	0.8	11.8	-59.2	V
11280.0	-71.3	0.3	12.1	-59.5	V
13160.0	-70.2	0.4	12.4	-58.2	V

Test Data (5MHz bandwidth 19174 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3814.8	-60.0	7.4	9.2	-58.2	V
5722.2	-71.8	1.5	10.5	-62.8	V
7629.6	-72.6	0.8	11.9	-61.5	V
9537.0	-70.4	0.9	11.8	-59.5	V
11444.4	-71.3	0.8	12.2	-59.9	V
13351.8	-70.9	0.4	12.4	-58.9	V

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Test Data (5MHz bandwidth 19174 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3814.8	-66.7	7.4	9.2	-64.9	V
5722.2	-71.8	1.5	10.5	-62.8	V
7629.6	-72.3	0.8	11.9	-61.2	V
9537.0	-70.3	0.9	11.8	-59.4	V
11444.4	-71.5	0.8	12.2	-60.1	V
13351.8	-70.6	0.4	12.4	-58.6	V

Test Data (10MHz bandwidth 18650 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3710.0	-56.9	7.2	8.9	-55.2	V
5565.0	-71.5	2.0	10.5	-63.0	V
7420.0	-69.2	0.9	11.9	-58.2	V
9275.0	-70.0	1.0	11.5	-59.5	V
11130.0	-70.9	0.3	12.1	-59.1	V
12985.0	-70.7	0.4	12.4	-58.7	V

Test Data (10MHz bandwidth 18650 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3710.0	-63.7	7.2	8.9	-62.0	V
5565.0	-64.4	2.0	10.5	-55.9	V
7420.0	-70.6	0.9	11.9	-59.6	V
9275.0	-69.8	1.0	11.5	-59.3	V
11130.0	-70.9	0.3	12.1	-59.1	V
12985.0	-70.1	0.4	12.4	-58.1	V

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Test Data (10MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-64.3	7.3	8.9	-62.7	V
5640.0	-70.8	1.8	10.5	-62.1	V
7520.0	-66.1	0.9	11.9	-55.1	V
9400.0	-70.4	0.8	11.8	-59.4	V
11280.0	-71.3	0.3	12.1	-59.5	V
13160.0	-70.7	0.4	12.4	-58.7	V

Test Data (10MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-66.9	7.3	8.9	-65.3	V
5640.0	-67.0	1.8	10.5	-58.3	V
7520.0	-68.1	0.9	11.9	-57.1	V
9400.0	-70.1	0.8	11.8	-59.1	V
11280.0	-70.7	0.3	12.1	-58.9	V
13160.0	-70.4	0.4	12.4	-58.4	V

Test Data (10MHz bandwidth 19149 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3809.8	-58.1	7.4	9.2	-56.3	V
5714.7	-68.8	1.5	10.5	-59.8	V
7619.6	-70.9	1.1	11.9	-60.1	V
9524.5	-69.0	0.9	11.8	-58.1	V
11429.4	-71.2	0.8	12.2	-59.8	V
13343.3	-70.7	0.4	12.4	-58.7	V

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Test Data (10MHz bandwidth 19149 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3809.8	-66.7	7.4	9.2	-64.9	V
5714.7	-72.1	1.5	10.5	-63.1	V
7619.6	-71.9	1.1	11.9	-61.1	V
9524.5	-70.7	0.9	11.8	-59.8	V
11429.4	-70.9	0.8	12.2	-59.5	V
13343.3	-69.9	0.4	12.4	-57.9	V

Test Data (15MHz bandwidth 18675 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3715.0	-63.7	7.2	8.9	-62.0	V
5572.5	-59.0	2.0	10.5	-50.5	V
7430.0	-72.4	0.9	11.9	-61.4	V
9287.5	-69.8	1.0	11.5	-59.3	V
11145.0	-71.3	0.3	12.1	-59.5	V
13002.5	-70.1	0.4	12.4	-58.1	V

Test Data (15MHz bandwidth 18675 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3715.0	-60.8	7.2	8.9	-59.1	V
5572.5	-52.8	2.0	10.5	-44.3	V
7430.0	-69.6	0.9	11.9	-58.6	V
9287.5	-69.4	1.0	11.5	-58.9	V
11145.0	-71.1	0.3	12.1	-59.3	V
13002.5	-70.0	0.4	12.4	-58.0	V

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Test Data (15MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-54.3	7.3	8.9	-52.7	V
5640.0	-64.4	1.8	10.5	-55.7	V
7520.0	-72.3	0.9	11.9	-61.3	V
9400.0	-69.9	0.8	11.8	-58.9	V
11280.0	-71.1	0.3	12.1	-59.3	V
13160.0	-70.1	0.4	12.4	-58.1	V

Test Data (15MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-57.6	7.3	8.9	-56.0	V
5640.0	-69.0	1.8	10.5	-60.3	V
7520.0	-68.4	0.9	11.9	-57.4	V
9400.0	-70.0	0.8	11.8	-59.0	V
11280.0	-71.3	0.3	12.1	-59.5	V
13160.0	-70.8	0.4	12.4	-58.8	V

Test Data (15MHz bandwidth 19124 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3804.8	-64.3	7.4	9.2	-62.5	V
5707.2	-71.5	1.5	10.5	-62.5	V
7609.6	-66.5	1.1	11.9	-55.7	V
9512.0	-70.5	0.9	11.8	-59.6	V
11414.4	-71.1	0.8	12.2	-59.7	V
13316.8	-70.3	0.4	12.4	-58.3	V

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Test Data (15MHz bandwidth 19124 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3804.8	-56.9	7.4	9.2	-55.1	V
5707.2	-65.4	1.5	10.5	-56.4	V
7609.6	-71.6	1.1	11.9	-60.8	V
9512.0	-70.2	0.9	11.8	-59.3	V
11414.4	-71.7	0.8	12.2	-60.3	V
13316.8	-70.6	0.4	12.4	-58.6	V

Test Data (20MHz bandwidth 18700 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3720.0	-56.4	7.3	9.2	-54.5	V
5580.0	-63.7	2.0	10.5	-55.2	V
7440.0	-64.1	0.9	11.9	-53.1	V
9300.0	-70.9	0.7	11.8	-59.8	V
11160.0	-71.5	0.3	12.2	-59.6	V
13020.0	-70.4	0.4	12.4	-58.4	V

Test Data (20MHz bandwidth 18700 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3720.0	-56.1	7.3	9.2	-54.2	V
5580.0	-60.0	2.0	10.5	-51.5	V
7440.0	-72.8	0.9	11.9	-61.8	V
9300.0	-69.8	0.7	11.8	-58.7	V
11160.0	-71.0	0.3	12.2	-59.1	V
13020.0	-70.8	0.4	12.4	-58.8	V

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Test Data (20MHz bandwidth 18900 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-58.8	7.3	8.9	-57.2	V
5640.0	-71.6	1.8	10.5	-62.9	V
7520.0	-71.9	0.9	11.9	-60.9	V
9400.0	-67.1	0.8	11.8	-56.1	V
11280.0	-69.8	0.3	12.1	-58.0	V
13160.0	-69.6	0.4	12.4	-57.6	V

Test Data (20MHz bandwidth 18900 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3760.0	-63.1	7.3	8.9	-61.5	V
5640.0	-66.2	1.8	10.5	-57.5	V
7520.0	-72.1	0.9	11.9	-61.1	V
9400.0	-70.6	0.8	11.8	-59.6	V
11280.0	-71.4	0.3	12.1	-59.6	V
13160.0	-70.7	0.4	12.4	-58.7	V

Test Data (20MHz bandwidth 19099 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3799.8	-67.2	7.4	9.2	-65.4	V
5699.7	-71.9	1.7	10.5	-63.1	V
7599.6	-67.0	0.8	11.9	-55.9	V
9499.5	-69.7	0.8	11.8	-58.7	V
11399.4	-70.7	0.8	12.2	-59.3	V
13299.3	-70.2	0.4	12.4	-58.2	V

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Test Data (20MHz bandwidth 19099 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3799.8	-59.3	7.4	9.2	-57.5	V
5699.7	-65.7	1.7	10.5	-56.9	V
7599.6	-72.2	0.8	11.9	-61.1	V
9499.5	-70.4	0.8	11.8	-59.4	V
11399.4	-71.5	0.8	12.2	-60.1	V
13299.3	-70.4	0.4	12.4	-58.4	V

5.4.4 CAT-M B4 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 19957 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3421.4	-69.1	6.9	8.9	-67.1	V
5132.1	-48.3	6.3	9.9	-44.7	V
6842.8	-72.7	0.8	11.9	-61.6	V
8553.5	-70.7	0.9	11.2	-60.4	V
10264.2	-71.7	0.5	12.0	-60.2	V
11974.9	-71.1	0.4	12.2	-59.3	V

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Report No.: I21W00004-WWAN_Rev2

Test Data (1.4MHz bandwidth 19957 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3421.4	-52.8	6.9	8.9	-50.8	V
5132.1	-64.6	6.3	9.9	-61.0	V
6842.8	-72.8	0.8	11.9	-61.7	V
8553.5	-70.8	0.9	11.2	-60.5	V
10264.2	-71.2	0.5	12.0	-59.7	V
11974.9	-71.5	0.4	12.2	-59.7	V

Test Data (1.4MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-45.8	6.9	8.9	-43.8	V
5197.5	-50.2	5.8	9.9	-46.1	V
6930.0	-72.5	0.9	11.9	-61.5	V
8662.5	-70.2	0.9	11.2	-59.9	V
10395.0	-71.3	0.7	12.2	-59.8	V
12127.5	-71.1	0.6	12.2	-59.5	V

Test Data (1.4MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-57.7	6.9	8.9	-55.7	V
5197.5	-66.5	5.8	9.9	-62.4	V
6930.0	-72.7	0.9	11.9	-61.7	V
8662.5	-70.2	0.9	11.2	-59.9	V
10395.0	-71.6	0.7	12.2	-60.1	V
12127.5	-69.9	0.6	12.2	-58.3	V

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Report No.: I21W00004-WWAN_Rev2

Test Data (1.4MHz bandwidth 20392 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3508.4	-44.9	7.0	8.9	-43.0	V
5262.5	-47.5	4.7	9.9	-42.3	V
7016.8	-72.1	1.2	11.9	-61.4	V
8771.0	-69.7	1.1	11.2	-59.6	V
10525.2	-71.5	0.6	12.2	-59.9	V
12279.4	-71.0	0.3	12.2	-59.1	V

Test Data (1.4MHz bandwidth 20392 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3508.4	-50.7	7.0	8.9	-48.8	V
5262.5	-66.9	4.7	9.9	-61.7	V
7016.8	-71.8	1.2	11.9	-61.1	V
8771.0	-70.5	1.1	11.2	-60.4	V
10525.2	-71.4	0.6	12.2	-59.8	V
12279.4	-70.5	0.3	12.2	-58.6	V

Test Data (3MHz bandwidth 19965 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3423.0	-50.9	6.9	8.9	-48.9	V
5134.5	-61.8	6.3	9.9	-58.2	V
6846.0	-72.7	0.8	11.9	-61.6	V
8557.5	-70.9	0.9	11.2	-60.6	V
10269.0	-71.4	0.5	12.0	-59.9	V
11980.5	-70.4	0.4	12.2	-58.6	V

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Report No.: I21W00004-WWAN_Rev2

Test Data (3MHz bandwidth 19965 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3423.0	-60.2	6.9	8.9	-58.2	V
5134.5	-62.8	6.3	9.9	-59.2	V
6846.0	-72.8	0.8	11.9	-61.7	V
8557.5	-70.4	0.9	11.2	-60.1	V
10269.0	-71.6	0.5	12.0	-60.1	V
11980.5	-71.4	0.4	12.2	-59.6	V

Test Data (3MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-47.4	6.9	8.9	-45.4	V
5197.5	-54.5	5.8	9.9	-50.4	V
6930.0	-72.8	0.9	11.9	-61.8	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.4	0.7	12.2	-59.9	V
12127.5	-70.7	0.6	12.2	-59.1	V

Test Data (3MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-58.7	6.9	8.9	-56.7	V
5197.5	-67.8	5.8	9.9	-63.7	V
6930.0	-72.7	0.9	11.9	-61.7	V
8662.5	-70.1	0.9	11.2	-59.8	V
10395.0	-70.9	0.7	12.2	-59.4	V
12127.5	-70.5	0.6	12.2	-58.9	V

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Test Data (3MHz bandwidth 20384 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3506.8	-64.6	7.0	8.9	-62.7	V
5260.2	-69.2	5.0	9.9	-64.3	V
7013.6	-71.8	1.2	11.9	-61.1	V
8767.0	-69.9	1.2	11.2	-59.9	V
10520.4	-71.4	0.6	12.2	-59.8	V
12273.8	-70.5	0.3	12.2	-58.6	V

Test Data (3MHz bandwidth 20384 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3506.8	-67.7	7.0	8.9	-65.8	V
5260.2	-61.1	5.0	9.9	-56.2	V
7013.6	-70.8	1.2	11.9	-60.1	V
8767.0	-69.6	1.2	11.2	-59.6	V
10520.4	-71.0	0.6	12.2	-59.4	V
12273.8	-70.8	0.3	12.2	-58.9	V

Test Data (5MHz bandwidth 19975 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-54.6	6.9	8.9	-52.6	V
5137.5	-67.5	6.3	9.9	-63.9	V
6850.0	-72.8	0.8	11.9	-61.7	V
8562.5	-70.6	0.9	11.2	-60.3	V
10275.0	-71.1	0.5	12.0	-59.6	V
11987.5	-71.0	0.4	12.2	-59.2	V

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Test Data (5MHz bandwidth 19975 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3425.0	-52.6	6.9	8.9	-50.6	V
5137.5	-66.2	6.3	9.9	-62.6	V
6850.0	-72.2	0.8	11.9	-61.1	V
8562.5	-71.0	0.9	11.2	-60.7	V
10275.0	-71.6	0.5	12.0	-60.1	V
11987.5	-71.3	0.4	12.2	-59.5	V

Test Data (5MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-69.3	6.9	8.9	-67.3	V
5197.5	-62.5	5.8	9.9	-58.4	V
6930.0	-73.1	0.9	11.9	-62.1	V
8662.5	-70.5	0.9	11.2	-60.2	V
10395.0	-71.3	0.7	12.2	-59.8	V
12127.5	-70.7	0.6	12.2	-59.1	V

Test Data (5MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-58.6	6.9	8.9	-56.6	V
5197.5	-65.2	5.8	9.9	-61.1	V
6930.0	-72.9	0.9	11.9	-61.9	V
8662.5	-69.8	0.9	11.2	-59.5	V
10395.0	-71.6	0.7	12.2	-60.1	V
12127.5	-70.7	0.6	12.2	-59.1	V

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Test Data (5MHz bandwidth 20374 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3504.8	-43.7	7.0	8.9	-41.8	V
5257.2	-59.6	5.0	9.9	-54.7	V
7009.6	-72.0	1.2	11.9	-61.3	V
8762.0	-70.2	1.2	11.2	-60.2	V
10514.4	-71.4	0.6	12.2	-59.8	V
12266.8	-70.1	0.4	12.2	-58.3	V

Test Data (5MHz bandwidth 20374 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3504.8	-68.5	7.0	8.9	-66.6	V
5257.2	-65.6	5.0	9.9	-60.7	V
7009.6	-71.6	1.2	11.9	-60.9	V
8762.0	-69.9	1.2	11.2	-59.9	V
10514.4	-71.0	0.6	12.2	-59.4	V
12266.8	-70.3	0.4	12.2	-58.5	V

Test Data (10MHz bandwidth 20000 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3430.0	-68.7	6.9	8.9	-66.7	V
5145.0	-66.0	6.3	9.9	-62.4	V
6860.0	-71.2	0.8	11.9	-60.1	V
8575.0	-71.1	0.9	11.2	-60.8	V
10290.0	-71.9	0.5	12.0	-60.4	V
12005.0	-71.4	0.4	12.2	-59.6	V

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Test Data (10MHz bandwidth 20000 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3430.0	-55.7	6.9	8.9	-53.7	V
5145.0	-67.2	6.3	9.9	-63.6	V
6860.0	-72.7	0.8	11.9	-61.6	V
8575.0	-71.0	0.9	11.2	-60.7	V
10290.0	-71.6	0.5	12.0	-60.1	V
12005.0	-71.3	0.4	12.2	-59.5	V

Test Data (10MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-42.9	6.9	8.9	-40.9	V
5197.5	-60.6	5.8	9.9	-56.5	V
6930.0	-73.2	0.9	11.9	-62.2	V
8662.5	-70.1	0.9	11.2	-59.8	V
10395.0	-71.4	0.7	12.2	-59.9	V
12127.5	-71.3	0.6	12.2	-59.7	V

Test Data (10MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-65.7	6.9	8.9	-63.7	V
5197.5	-66.9	5.8	9.9	-62.8	V
6930.0	-73.0	0.9	11.9	-62.0	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-70.1	0.7	12.2	-58.6	V
12127.5	-71.0	0.6	12.2	-59.4	V

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Test Data (10MHz bandwidth 20349 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3499.8	-68.6	7.0	8.9	-66.7	V
5249.7	-68.8	5.0	9.9	-63.9	V
6999.6	-72.6	0.9	11.9	-61.6	V
8749.5	-69.8	1.2	11.2	-59.8	V
10499.4	-71.5	0.6	12.2	-59.9	V
12249.3	-70.5	0.3	12.2	-58.6	V

Test Data (10MHz bandwidth 20349 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3499.8	-59.7	7.0	8.9	-57.8	V
5249.7	-59.8	5.0	9.9	-54.9	V
6999.6	-72.6	0.9	11.9	-61.6	V
8749.5	-69.5	1.2	11.2	-59.5	V
10499.4	-71.6	0.6	12.2	-60.0	V
12249.3	-71.4	0.3	12.2	-59.5	V

Test Data (15MHz bandwidth 20025 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-69.1	6.9	8.9	-67.1	V
5152.5	-66.9	6.3	9.9	-63.3	V
6870.0	-73.0	0.8	11.9	-61.9	V
8587.5	-71.1	0.9	11.2	-60.8	V
10305.0	-70.9	0.7	12.2	-59.4	V
12022.5	-71.2	0.6	12.2	-59.6	V

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Test Data (15MHz bandwidth 20025 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3435.0	-69.1	6.9	8.9	-67.1	V
5152.5	-67.0	6.3	9.9	-63.4	V
6870.0	-73.1	0.8	11.9	-62.0	V
8587.5	-70.9	0.9	11.2	-60.6	V
10305.0	-71.1	0.7	12.2	-59.6	V
12022.5	-71.3	0.6	12.2	-59.7	V

Test Data (15MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-45.5	6.9	8.9	-43.5	V
5197.5	-52.7	6.3	9.9	-49.1	V
6930.0	-73.1	0.8	11.9	-62.0	V
8662.5	-70.6	0.9	11.2	-60.3	V
10395.0	-71.6	0.7	12.2	-60.1	V
12127.5	-70.5	0.6	12.2	-58.9	V

Test Data (15MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-68.9	6.9	8.9	-66.9	V
5197.5	-68.3	5.8	9.9	-64.2	V
6930.0	-73.1	0.9	11.9	-62.1	V
8662.5	-70.1	0.9	11.2	-59.8	V
10395.0	-71.4	0.7	12.2	-59.9	V
12127.5	-71.2	0.6	12.2	-59.6	V

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Test Data (15MHz bandwidth 20324 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3494.8	-61.2	7.0	8.9	-59.3	V
5242.2	-69.0	5.0	9.9	-64.1	V
6989.6	-72.8	1.2	11.9	-62.1	V
8737.0	-70.1	1.2	11.2	-60.1	V
10484.4	-71.5	0.3	12.2	-59.6	V
12231.8	-71.2	0.3	12.2	-59.3	V

Test Data (15MHz bandwidth 20324 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3494.8	-68.8	7.0	8.9	-66.9	V
5242.2	-68.7	5.0	9.9	-63.8	V
6989.6	-72.5	1.2	11.9	-61.8	V
8737.0	-69.8	1.2	11.2	-59.8	V
10484.4	-71.8	0.3	12.2	-59.9	V
12231.8	-70.8	0.3	12.2	-58.9	V

Test Data (20MHz bandwidth 20050 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-68.7	6.9	8.9	-66.7	V
5160.0	-67.6	6.3	9.9	-64.0	V
6880.0	-72.6	0.8	11.9	-61.5	V
8600.0	-70.0	0.9	11.2	-59.7	V
10320.0	-71.7	0.7	12.2	-60.2	V
12040.0	-70.9	0.6	12.2	-59.3	V

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Test Data (20MHz bandwidth 20050 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3440.0	-68.8	6.9	8.9	-66.8	V
5160.0	-67.1	6.3	9.9	-63.5	V
6880.0	-73.1	0.8	11.9	-62.0	V
8600.0	-70.1	0.9	11.2	-59.8	V
10320.0	-71.6	0.7	12.2	-60.1	V
12040.0	-71.2	0.6	12.2	-59.6	V

Test Data (20MHz bandwidth 20175 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-55.1	6.9	8.9	-53.1	V
5197.5	-45.1	5.8	9.9	-41.0	V
6930.0	-71.4	0.9	11.9	-60.4	V
8662.5	-70.4	0.9	11.2	-60.1	V
10395.0	-71.0	0.7	12.2	-59.5	V
12127.5	-70.2	0.6	12.2	-58.6	V

Test Data (20MHz bandwidth 20175 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
3465.0	-71.8	6.9	8.9	-69.8	V
5197.5	-61.5	5.8	9.9	-57.4	V
6930.0	-72.7	0.9	11.9	-61.7	V
8662.5	-70.6	0.9	11.2	-60.3	V
10395.0	-71.4	0.7	12.2	-59.9	V
12127.5	-71.1	0.6	12.2	-59.5	V

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**Report No.: I21W00004-WWAN_Rev2****Test Data (20MHz bandwidth 20299 QPSK Mode)**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3489.8	-42.8	7.0	8.9	-40.9	V
5234.7	-42.8	5.0	9.9	-37.9	V
6979.6	-72.9	0.9	11.9	-61.9	V
8724.5	-67.2	1.2	11.2	-57.2	V
10469.4	-71.2	0.3	12.2	-59.3	V
12214.3	-71.1	0.3	12.2	-59.2	V

Test Data (20MHz bandwidth 20299 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3489.8	-68.3	7.0	8.9	-66.4	V
5234.7	-69.0	5.0	9.9	-64.1	V
6979.6	-72.9	0.9	11.9	-61.9	V
8724.5	-69.8	1.2	11.2	-59.8	V
10469.4	-71.8	0.3	12.2	-59.9	V
12214.3	-71.6	0.3	12.2	-59.7	V



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5.4.5 CAT-M B5 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 20407 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1649.4	-67.0	4.7	7.3	-64.4	H
2474.1	-65.9	6.0	6.8	-65.1	V
3298.8	-67.9	6.7	8.9	-65.7	V
4123.5	-66.3	7.6	9.2	-64.7	V
4948.2	-65.1	7.7	9.9	-62.9	V
5772.9	-72.6	1.4	10.5	-63.5	V

Test Data (1.4MHz bandwidth 20407 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1649.4	-68.0	4.7	7.3	-65.4	H
2474.1	-66.0	6.0	6.8	-65.2	V
3298.8	-68.6	6.7	8.9	-66.4	V
4123.5	-66.7	7.6	9.2	-65.1	V
4948.2	-65.1	7.7	9.9	-62.9	V
5772.9	-72.5	1.4	10.5	-63.4	V

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Test Data (1.4MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-66.3	4.7	7.3	-63.7	V
2509.5	-64.9	5.9	6.7	-64.1	V
3346.0	-69.0	6.8	8.9	-66.9	V
4182.5	-66.3	7.8	9.2	-64.9	V
5019.0	-65.7	7.5	9.9	-63.3	V
5855.5	-71.8	1.1	10.5	-62.4	V

Test Data (1.4MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-50.9	4.7	7.3	-48.3	V
2509.5	-65.2	5.9	6.7	-64.4	V
3346.0	-68.6	6.8	8.9	-66.5	V
4182.5	-66.0	7.8	9.2	-64.6	V
5019.0	-64.1	7.5	9.9	-61.7	V
5855.5	-71.6	1.1	10.5	-62.2	V

Test Data (1.4MHz bandwidth 20642 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1696.4	-72.4	4.8	7.9	-69.3	V
2544.6	-65.5	5.9	6.9	-64.5	V
3392.8	-68.9	6.9	8.9	-66.9	V
4241.0	-66.1	7.8	9.2	-64.7	V
5089.2	-66.7	6.8	9.9	-63.6	V
5937.4	-71.8	1.4	10.9	-62.3	V

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Test Data (1.4MHz bandwidth 20642 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1696.4	-56.4	4.8	7.9	-53.3	V
2544.6	-65.3	5.9	6.9	-64.3	V
3392.8	-69.1	6.9	8.9	-67.1	V
4241.0	-65.7	7.8	9.2	-64.3	V
5089.2	-66.8	6.8	9.9	-63.7	V
5937.4	-71.8	1.4	10.9	-62.3	V

Test Data (3MHz bandwidth 20415 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1651.0	-62.4	4.8	7.9	-59.3	V
2476.5	-66.1	5.9	6.9	-65.1	V
3302.0	-68.8	6.9	8.9	-66.8	V
4127.5	-66.4	7.8	9.2	-65.0	V
4953.0	-66.3	6.8	9.9	-63.2	V
5778.5	-72.2	1.4	10.9	-62.7	V

Test Data (3MHz bandwidth 20415 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1651.0	-72.4	4.8	7.9	-69.3	V
2476.5	-65.6	5.9	6.9	-64.6	V
3302.0	-68.2	6.9	8.9	-66.2	V
4127.5	-66.0	7.8	9.2	-64.6	V
4953.0	-66.5	6.8	9.9	-63.4	V
5778.5	-72.8	1.4	10.9	-63.3	V

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Test Data (3MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-71.4	4.7	7.3	-68.8	V
2509.5	-65.2	5.9	6.7	-64.4	V
3346.0	-69.0	6.8	8.9	-66.9	V
4182.5	-66.3	7.8	9.2	-64.9	V
5019.0	-65.8	7.5	9.9	-63.4	V
5855.5	-72.3	1.1	10.5	-62.9	V

Test Data (3MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-54.2	4.7	7.3	-51.6	V
2509.5	-64.9	5.9	6.7	-64.1	V
3346.0	-69.1	6.8	8.9	-67.0	V
4182.5	-66.1	7.8	9.2	-64.7	V
5019.0	-66.0	7.5	9.9	-63.6	V
5855.5	-72.4	1.1	10.5	-63.0	V

Test Data (3MHz bandwidth 20634 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1694.8	-72.7	4.8	8.0	-69.5	V
2542.2	-65.7	5.9	6.9	-64.7	V
3389.6	-69.3	6.9	8.9	-67.3	V
4237.0	-66.2	7.8	9.2	-64.8	V
5084.4	-67.2	6.8	9.9	-64.1	V
5931.8	-72.2	1.4	10.9	-62.7	V

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Test Data (3MHz bandwidth 20634 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1694.8	-73.5	4.8	8.0	-70.3	V
2542.2	-66.3	5.9	6.9	-65.3	V
3389.6	-69.3	6.9	8.9	-67.3	V
4237.0	-65.9	7.8	9.2	-64.5	V
5084.4	-67.1	6.8	9.9	-64.0	V
5931.8	-71.5	1.4	10.9	-62.0	V

Test Data (5MHz bandwidth 20425 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1653.0	-72.3	4.8	7.3	-69.8	V
2479.5	-65.8	5.9	6.6	-65.1	V
3306.0	-68.4	6.8	8.9	-66.3	V
4132.5	-66.0	7.6	9.2	-64.4	V
4959.0	-64.2	7.5	9.9	-61.8	V
5785.5	-72.6	1.4	10.5	-63.5	V

Test Data (5MHz bandwidth 20425 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1653.0	-70.6	4.8	7.3	-68.1	V
2479.5	-65.5	5.9	6.6	-64.8	V
3306.0	-68.6	6.8	8.9	-66.5	V
4132.5	-66.3	7.6	9.2	-64.7	V
4959.0	-65.9	7.5	9.9	-63.5	V
5785.5	-72.5	1.4	10.5	-63.4	V

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Test Data (5MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-73.2	4.7	7.3	-70.6	V
2509.5	-65.7	5.9	6.7	-64.9	V
3346.0	-69.0	6.8	8.9	-66.9	V
4182.5	-66.3	7.8	9.2	-64.9	V
5019.0	-66.1	7.5	9.9	-63.7	V
5855.5	-72.0	1.1	10.5	-62.6	V

Test Data (5MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-72.8	4.7	7.3	-70.2	V
2509.5	-65.7	5.9	6.7	-64.9	V
3346.0	-68.6	6.8	8.9	-66.5	V
4182.5	-66.3	7.8	9.2	-64.9	V
5019.0	-66.3	7.5	9.9	-63.9	V
5855.5	-72.5	1.1	10.5	-63.1	V

Test Data (5MHz bandwidth 20624 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1692.8	-73.9	4.8	8.0	-70.7	V
2539.2	-65.4	5.9	6.9	-64.4	V
3385.6	-69.1	6.9	8.9	-67.1	V
4232.0	-66.5	7.8	9.2	-65.1	V
5078.4	-66.6	6.8	9.9	-63.5	V
5924.8	-71.2	1.4	10.9	-61.7	V

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Test Data (5MHz bandwidth 20624 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1692.8	-71.4	4.8	8.0	-68.2	V
2539.2	-65.3	5.9	6.9	-64.3	V
3385.6	-69.0	6.9	8.9	-67.0	V
4232.0	-66.2	7.8	9.2	-64.8	V
5078.4	-67.2	6.8	9.9	-64.1	V
5924.8	-72.1	1.4	10.9	-62.6	V

Test Data (10MHz bandwidth 20450 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1658.0	-69.1	4.8	7.6	-66.3	V
2487.0	-65.7	5.9	6.6	-65.0	V
3316.0	-68.7	6.8	8.9	-66.6	V
4145.0	-66.7	7.6	9.2	-65.1	V
4974.0	-65.5	7.5	9.9	-63.1	V
5803.0	-72.3	1.4	10.9	-62.8	V

Test Data (10MHz bandwidth 20450 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1658.0	-73.1	4.8	7.6	-70.3	V
2487.0	-65.6	5.9	6.6	-64.9	V
3316.0	-68.6	6.8	8.9	-66.5	V
4145.0	-66.8	7.6	9.2	-65.2	V
4974.0	-65.4	7.5	9.9	-63.0	V
5803.0	-71.9	1.4	10.9	-62.4	V

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Test Data (10MHz bandwidth 20525 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-73.7	4.7	7.3	-71.1	V
2509.5	-64.9	5.9	6.7	-64.1	V
3346.0	-68.7	6.8	8.9	-66.6	V
4182.5	-66.3	7.8	9.2	-64.9	V
5019.0	-65.9	7.5	9.9	-63.5	V
5855.5	-72.0	1.1	10.5	-62.6	V

Test Data (10MHz bandwidth 20525 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1673.0	-70.3	4.7	7.3	-67.7	V
2509.5	-65.2	5.9	6.7	-64.4	V
3346.0	-68.5	6.8	8.9	-66.4	V
4182.5	-66.4	7.8	9.2	-65.0	V
5019.0	-66.1	7.5	9.9	-63.7	V
5855.5	-72.4	1.1	10.5	-63.0	V

Test Data (10MHz bandwidth 20599 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1687.8	-71.9	4.8	8.1	-68.6	V
2531.7	-66.2	5.9	6.9	-65.2	V
3375.6	-69.2	6.8	8.9	-67.1	V
4219.5	-66.0	7.8	9.2	-64.6	V
5063.4	-66.1	7.1	9.9	-63.3	V
5907.3	-72.4	1.4	10.9	-62.9	V

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Test Data (10MHz bandwidth 20599 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1687.8	-74.2	4.8	8.1	-70.9	V
2531.7	-65.4	5.9	6.9	-64.4	V
3375.6	-69.2	6.8	8.9	-67.1	V
4219.5	-66.2	7.8	9.2	-64.8	V
5063.4	-66.2	7.1	9.9	-63.4	V
5907.3	-72.2	1.4	10.9	-62.7	V

5.4.6 CAT-M B12 Radiated Spurious Emission Results

Test Data (1.4MHz bandwidth 23017 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1398.0	-66.9	4.4	7.8	-63.5	V
2097.0	-63.0	5.4	8.3	-60.1	V
2796.0	-65.3	6.2	7.9	-63.6	V
3495.0	-68.7	7.0	8.9	-66.8	V
4194.0	-66.1	7.8	9.2	-64.7	V
4893.0	-65.7	7.8	9.9	-63.6	V

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Test Data (1.4MHz bandwidth 23017 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1398.0	-66.6	4.4	7.8	-63.2	V
2097.0	-65.0	5.4	8.3	-62.1	V
2796.0	-62.0	6.2	7.9	-60.3	V
3495.0	-69.0	7.0	8.9	-67.1	V
4194.0	-65.8	7.8	9.2	-64.4	V
4893.0	-65.9	7.8	9.9	-63.8	V

Test Data (1.4MHz bandwidth 23095 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-69.3	4.4	8.3	-65.4	V
2122.5	-65.4	5.4	8.1	-62.7	V
2830.0	-62.7	6.3	7.5	-61.5	V
3537.5	-69.0	7.0	8.9	-67.1	V
4245.0	-65.8	7.8	9.2	-64.4	V
4952.5	-64.9	7.7	9.9	-62.7	V

Test Data (1.4MHz bandwidth 23095 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-68.3	4.4	8.3	-64.4	V
2122.5	-65.3	5.4	8.1	-62.6	V
2830.0	-61.5	6.3	7.5	-60.3	V
3537.5	-69.3	7.0	8.9	-67.4	V
4245.0	-66.1	7.8	9.2	-64.7	V
4952.5	-65.3	7.7	9.9	-63.1	V

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Report No.: I21W00004-WWAN_Rev2

Test Data (1.4MHz bandwidth 23172 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1432.0	-67.3	4.4	8.2	-63.5	V
2148.0	-64.2	5.4	7.0	-62.6	V
2864.0	-62.7	6.5	8.0	-61.2	V
3580.0	-68.3	7.2	8.9	-66.6	V
4296.0	-65.9	7.8	9.5	-64.2	V
5012.0	-65.6	7.5	9.9	-63.2	V

Test Data (1.4MHz bandwidth 23172 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1432.0	-68.0	4.4	8.2	-64.2	V
2148.0	-64.7	5.4	7.0	-63.1	V
2864.0	-64.0	6.5	8.0	-62.5	V
3580.0	-68.3	7.2	8.9	-66.6	V
4296.0	-65.7	7.8	9.5	-64.0	V
5012.0	-65.7	7.5	9.9	-63.3	V

Test Data (3MHz bandwidth 23025 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1401.0	-62.8	4.4	7.8	-59.4	V
2101.5	-64.4	5.4	8.3	-61.5	V
2802.0	-65.5	6.2	8.0	-63.7	V
3502.5	-69.2	7.0	8.9	-67.3	V
4203.0	-65.9	7.8	9.2	-64.5	V
4903.5	-65.4	7.8	9.9	-63.3	V

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Test Data (3MHz bandwidth 23025 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1401.0	-65.3	4.4	7.8	-61.9	V
2101.5	-69.0	5.4	8.3	-66.1	V
2802.0	-65.5	6.2	8.0	-63.7	V
3502.5	-69.0	7.0	8.9	-67.1	V
4203.0	-66.2	7.8	9.2	-64.8	V
4903.5	-65.6	7.8	9.9	-63.5	V

Test Data (3MHz bandwidth 23095 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-67.2	4.4	8.3	-63.3	V
2122.5	-68.4	5.4	8.1	-65.7	V
2830.0	-64.8	6.3	7.5	-63.6	V
3537.5	-68.6	7.0	8.9	-66.7	V
4245.0	-65.9	7.8	9.2	-64.5	V
4952.5	-65.5	7.7	9.9	-63.3	V

Test Data (3MHz bandwidth 23095 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-71.0	4.4	8.3	-67.1	V
2122.5	-64.3	5.4	8.1	-61.6	V
2830.0	-52.8	6.3	7.5	-51.6	V
3537.5	-68.5	7.0	8.9	-66.6	V
4245.0	-66.0	7.8	9.2	-64.6	V
4952.5	-65.5	7.7	9.9	-63.3	V

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Test Data (3MHz bandwidth 23164 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1429.0	-69.2	4.4	8.3	-65.3	V
2143.5	-64.6	5.4	8.1	-61.9	V
2858.0	-64.3	6.3	7.5	-63.1	V
3572.5	-68.5	7.0	8.9	-66.6	V
4287.0	-65.5	7.8	9.2	-64.1	V
5001.5	-65.4	7.7	9.9	-63.2	V

Test Data (3MHz bandwidth 23164 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1429.0	-62.4	4.4	8.3	-58.5	V
2143.5	-67.2	5.4	6.6	-66.0	V
2858.0	-65.4	6.4	8.0	-63.8	V
3572.5	-68.4	7.2	8.9	-66.7	V
4287.0	-65.5	7.8	9.5	-63.8	V
5001.5	-66.0	7.5	9.9	-63.6	V

Test Data (5MHz bandwidth 23035 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1403.0	-58.1	4.4	8.3	-54.2	V
2104.5	-67.9	5.4	6.6	-66.7	V
2806.0	-65.6	6.4	8.0	-64.0	V
3507.5	-68.3	7.2	8.9	-66.6	V
4209.0	-66.6	7.8	9.5	-64.9	V
4910.5	-65.0	7.5	9.9	-62.6	V

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Test Data (5MHz bandwidth 23035 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1403.0	-73.8	4.4	7.8	-70.4	V
2104.5	-70.5	5.4	8.3	-67.6	V
2806.0	-65.3	6.2	8.0	-63.5	V
3507.5	-68.8	7.0	8.9	-66.9	V
4209.0	-66.4	7.8	9.2	-65.0	V
4910.5	-65.0	7.8	9.9	-62.9	V

Test Data (5MHz bandwidth 23095 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-74.1	4.4	8.3	-70.2	H
2122.5	-70.9	5.4	8.1	-68.2	H
2830.0	-65.5	6.3	7.5	-64.3	H
3537.5	-68.6	7.0	8.9	-66.7	V
4245.0	-65.7	7.8	9.2	-64.3	V
4952.5	-65.6	7.7	9.9	-63.4	V

Test Data (5MHz bandwidth 23095 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-69.3	4.4	8.3	-65.4	V
2122.5	-70.9	5.4	8.1	-68.2	H
2830.0	-64.7	6.3	7.5	-63.5	V
3537.5	-68.8	7.0	8.9	-66.9	V
4245.0	-65.9	7.8	9.2	-64.5	V
4952.5	-65.4	7.7	9.9	-63.2	V

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Test Data (5MHz bandwidth 23154 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1427.0	-77.9	4.4	8.3	-74.0	V
2140.5	-69.5	5.4	7.0	-67.9	V
2854.0	-65.4	6.4	8.0	-63.8	V
3567.5	-68.6	7.0	8.9	-66.7	V
4281.0	-65.8	7.8	9.5	-64.1	V
4994.5	-65.6	7.5	9.9	-63.2	V

Test Data (5MHz bandwidth 23154 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1427.0	-78.0	4.4	8.3	-74.1	H
2140.5	-69.1	5.4	7.0	-67.5	H
2854.0	-65.7	6.4	8.0	-64.1	V
3567.5	-68.8	7.0	8.9	-66.9	V
4281.0	-65.8	7.8	9.5	-64.1	V
4994.5	-65.4	7.5	9.9	-63.0	V

Test Data (10MHz bandwidth 23060 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1408.0	-70.6	4.4	7.8	-67.2	V
2112.0	-69.5	5.4	8.3	-66.6	V
2816.0	-64.7	6.3	7.5	-63.5	V
3520.0	-68.7	7.0	8.9	-66.8	V
4224.0	-66.2	7.8	9.2	-64.8	V
4928.0	-65.4	7.7	9.9	-63.2	V

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Test Data (10MHz bandwidth 23060 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1408.0	-68.2	4.4	7.8	-64.8	V
2112.0	-69.4	5.4	8.3	-66.5	V
2816.0	-65.3	6.3	7.5	-64.1	V
3520.0	-67.8	7.0	8.9	-65.9	V
4224.0	-66.4	7.8	9.2	-65.0	V
4928.0	-65.4	7.7	9.9	-63.2	V

Test Data (10MHz bandwidth 23095 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-73.8	4.4	8.3	-69.9	V
2122.5	-67.0	5.4	8.1	-64.3	V
2830.0	-65.3	6.3	7.5	-64.1	V
3537.5	-68.8	7.0	8.9	-66.9	V
4245.0	-66.2	7.8	9.2	-64.8	V
4952.5	-65.2	7.7	9.9	-63.0	V

Test Data (10MHz bandwidth 23095 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-73.4	4.4	8.3	-69.5	V
2122.5	-71.0	5.4	8.1	-68.3	V
2830.0	-65.3	6.3	7.5	-64.1	V
3537.5	-68.6	7.0	8.9	-66.7	V
4245.0	-66.1	7.8	9.2	-64.7	V
4952.5	-65.4	7.7	9.9	-63.2	V

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Test Data (10MHz bandwidth 23129 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1422.0	-69.4	4.4	8.3	-65.5	V
2133.0	-69.7	5.4	7.0	-68.1	V
2844.0	-65.5	6.3	8.2	-63.6	V
3555.0	-69.0	7.0	8.9	-67.1	V
4266.0	-66.7	7.8	9.5	-65.0	V
4977.0	-65.4	7.5	9.9	-63.0	V

Test Data (10MHz bandwidth 23129 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1422.0	-71.4	4.4	8.3	-67.5	V
2133.0	-63.4	5.4	7.0	-61.8	V
2844.0	-66.1	6.3	8.2	-64.2	H
3555.0	-68.6	7.0	8.9	-66.7	V
4266.0	-66.2	7.8	9.5	-64.5	V
4977.0	-65.1	7.5	9.9	-62.7	V

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5.4.7 CAT-M B13 Radiated Spurious Emission Results

Test Data (5MHz bandwidth 23205 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1559.0	-74.0	4.6	8.5	-70.1	V
2338.5	-66.9	5.6	6.6	-65.9	V
3118.0	-69.1	6.6	8.9	-66.8	V
3897.5	-66.6	7.4	9.2	-64.8	V
4677.0	-65.1	8.1	9.5	-63.7	V
5456.5	-70.7	2.9	10.5	-63.1	V

Test Data (5MHz bandwidth 23205 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1559.0	-73.9	4.6	8.5	-70.0	V
2338.5	-67.1	5.6	6.6	-66.1	V
3118.0	-68.6	6.6	8.9	-66.3	V
3897.5	-66.9	7.4	9.2	-65.1	V
4677.0	-64.8	8.1	9.5	-63.4	V
5456.5	-70.1	2.9	10.5	-62.5	V

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Test Data (5MHz bandwidth 23230 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-74.0	4.6	8.5	-70.1	V
2346.0	-68.6	5.6	8.1	-66.1	V
3128.0	-69.1	6.6	8.9	-66.8	V
3910.0	-66.0	7.5	9.2	-64.3	V
4692.0	-64.7	8.1	9.5	-63.3	V
5474.0	-70.2	2.9	10.5	-62.6	V

Test Data (5MHz bandwidth 23230 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-69.0	4.6	8.5	-65.1	V
2346.0	-68.1	5.6	8.1	-65.6	V
3128.0	-69.3	6.6	8.9	-67.0	V
3910.0	-65.6	7.5	9.2	-63.9	V
4692.0	-65.2	8.1	9.5	-63.8	V
5474.0	-69.7	2.9	10.5	-62.1	V

Test Data (5MHz bandwidth 23254 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1571.0	-68.2	4.6	9.1	-63.7	V
2356.5	-67.1	5.7	7.4	-65.4	V
3142.0	-69.1	6.5	8.9	-66.7	V
3927.5	-66.2	7.5	9.2	-64.5	V
4713.0	-65.4	8.1	9.5	-64.0	V
5498.5	-70.8	2.5	10.5	-62.8	V

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Test Data (5MHz bandwidth 23254 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1571.0	-68.3	4.6	9.1	-63.8	V
2356.5	-67.1	5.7	7.4	-65.4	V
3142.0	-69.4	6.5	8.9	-67.0	V
3927.5	-66.4	7.5	9.2	-64.7	V
4713.0	-64.5	8.1	9.5	-63.1	V
5498.5	-70.4	2.5	10.5	-62.4	V

Test Data (10MHz bandwidth 23230 QPSK Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-71.8	4.6	8.5	-67.9	V
2346.0	-67.9	5.6	8.1	-65.4	V
3128.0	-69.4	6.6	8.9	-67.1	V
3910.0	-65.5	7.5	9.2	-63.8	V
4692.0	-64.9	8.1	9.5	-63.5	V
5474.0	-70.3	2.9	10.5	-62.7	V

Test Data (10MHz bandwidth 23230 16QAM Mode)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious mission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-64.5	4.6	8.5	-60.6	V
2346.0	-67.3	5.6	8.1	-64.8	V
3128.0	-69.6	6.6	8.9	-67.3	V
3910.0	-65.4	7.5	9.2	-63.7	V
4692.0	-65.3	8.1	9.5	-63.9	V
5474.0	-70.5	2.9	10.5	-62.9	V

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5.5 Band Edge

Specifications:	FCC Part 2.1051, 2.1053, 24.238, 22.917, 27.53
DUT Serial Number:	866884045634250
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 and 24.238:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):

Except as otherwise specified below, For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Measurement Uncertainty:

Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

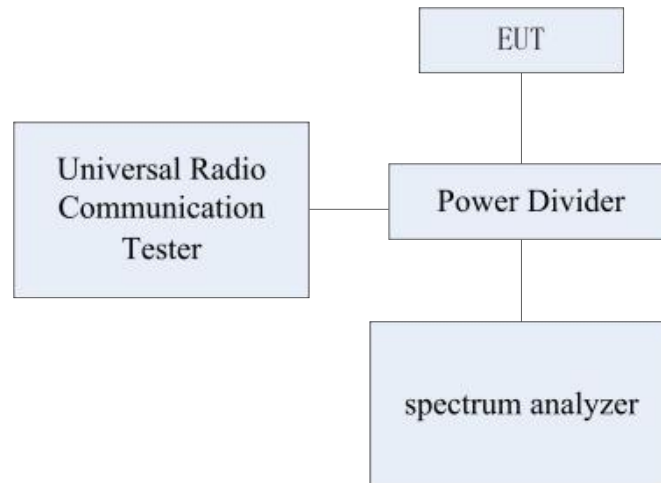
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Report No.: I21W00004-WWAN_Rev2

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



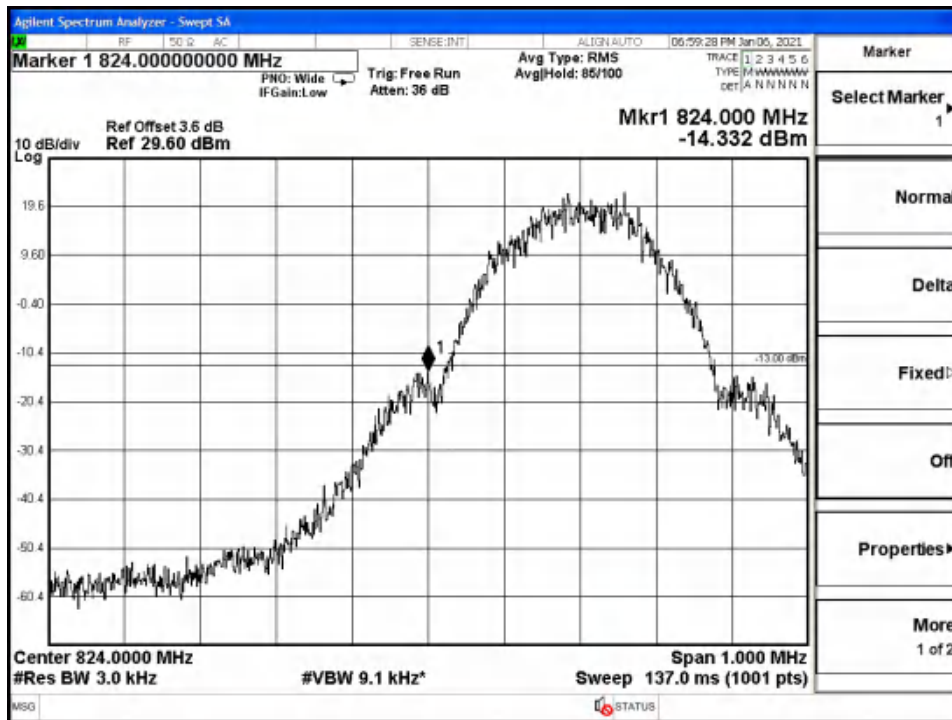
Test Method:

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth. resolution Bandwidth of the spectrum analyzer was a little greater than 30kHz for Band12

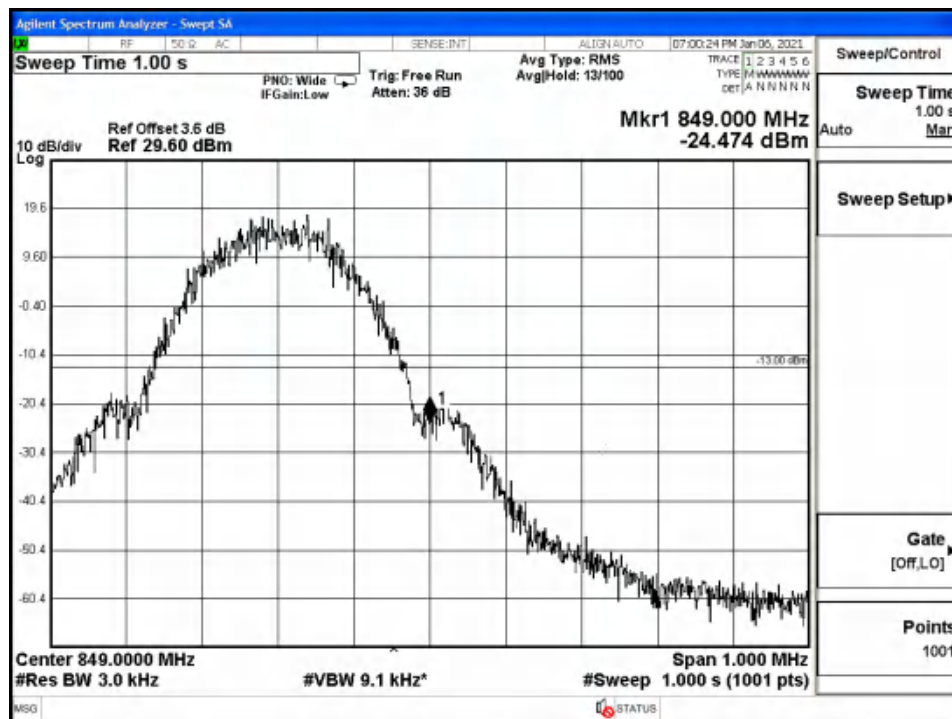
Note: Only worst case result is given below.

Report No.: I21W00004-WWAN_Rev2

5.5.1 GSM850 Band Edge Results



GSMK-Cellular low channel-below 824 MHz

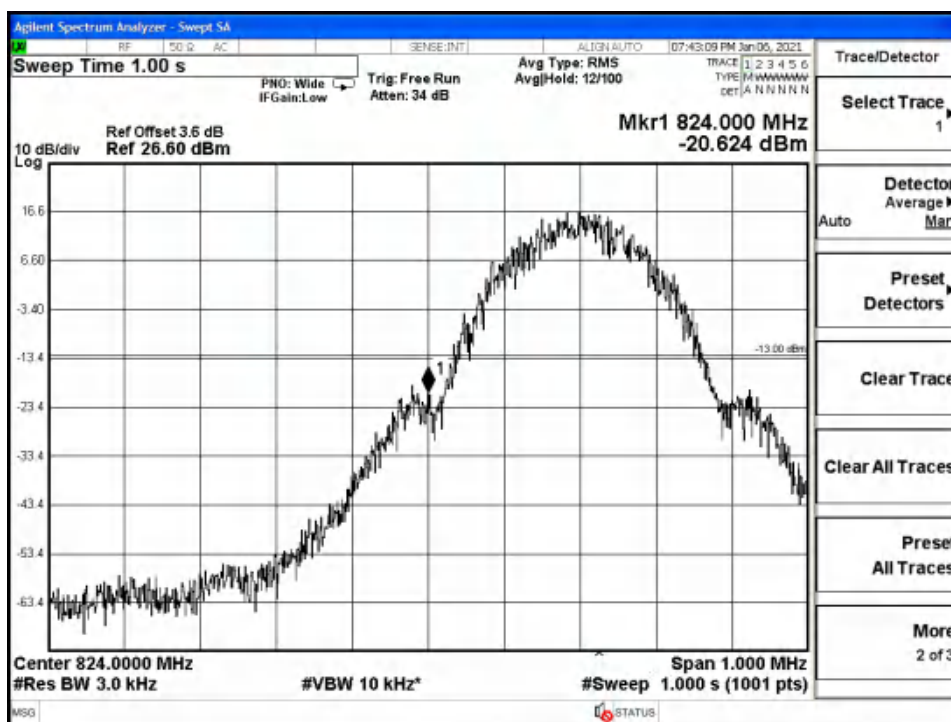


GMSK-Cellular high channel-above 849 MHz

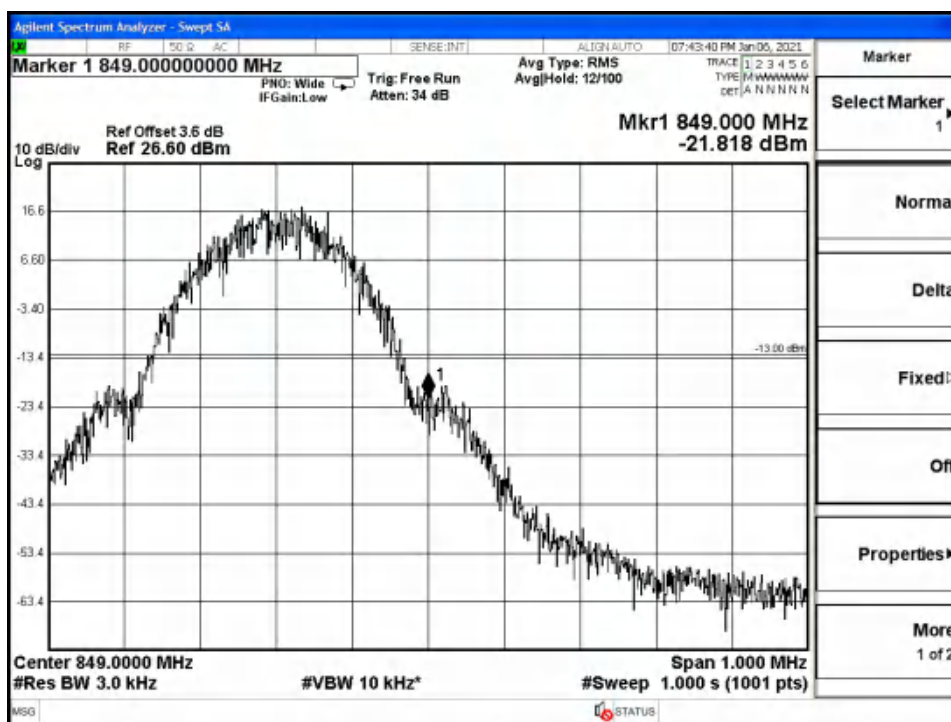
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8PSK-Cellular low channel-below 824 MHz



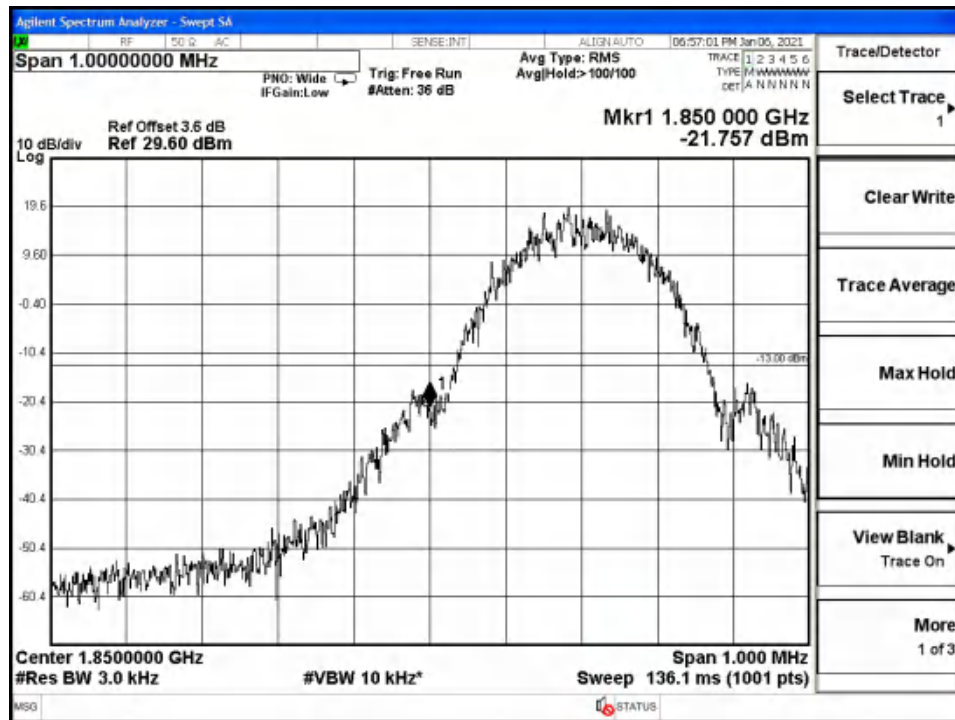
8PSK-Cellular high channel-above 849 MHz

Chongqing Academy of Information and Communication Technology

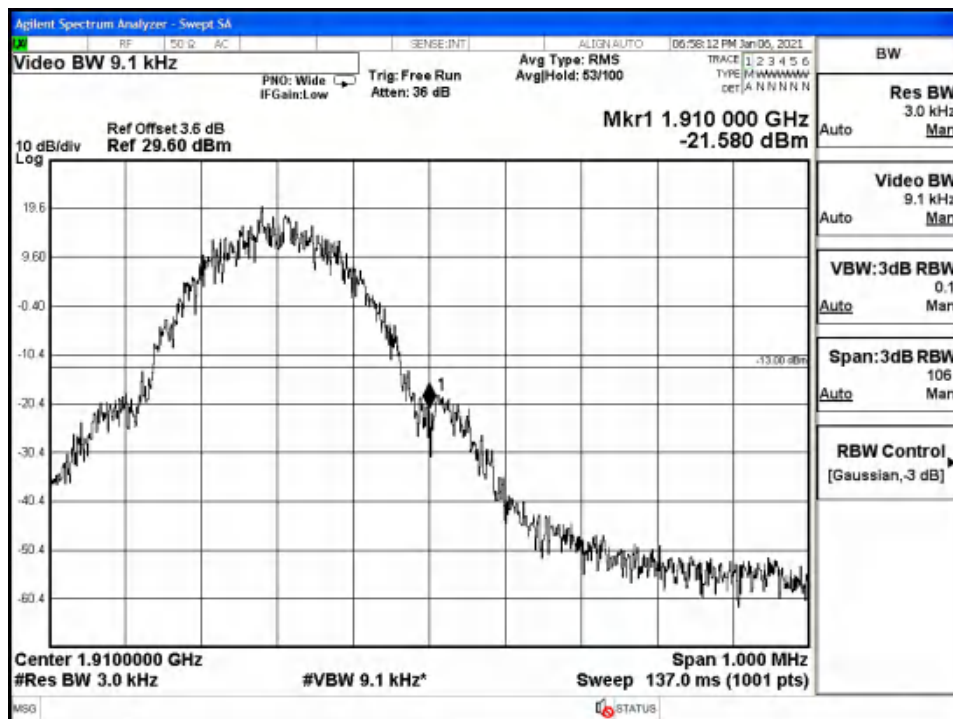
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Report No.: I21W00004-WWAN_Rev2

5.5.2 PCS1900 Band Edge Results

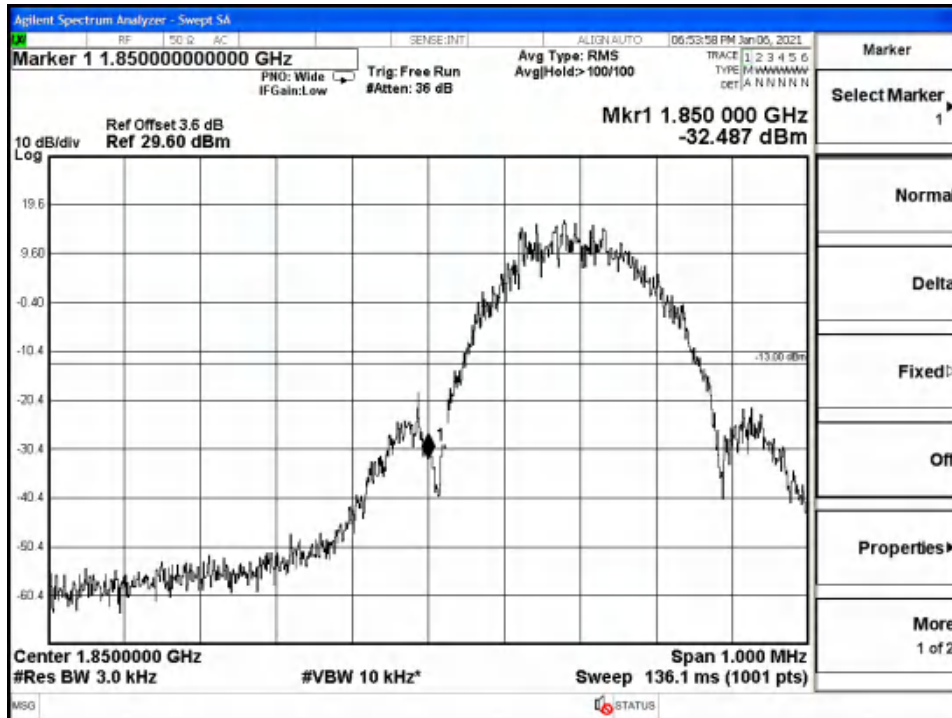


GMSK-PCS low channel-below 1850 MHz

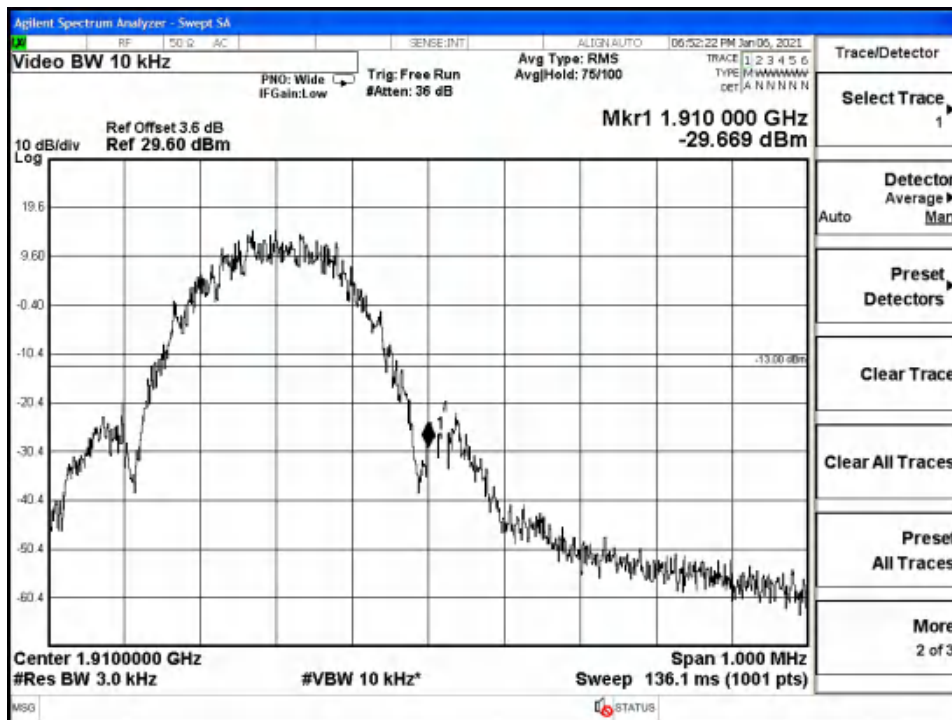


GMSK-PCS high channel-above 1910 MHz

Report No.: I21W00004-WWAN_Rev2



8PSK-PCS low channel-below 1850 MHz



8PSK-PCS high channel-above 1910 MHz

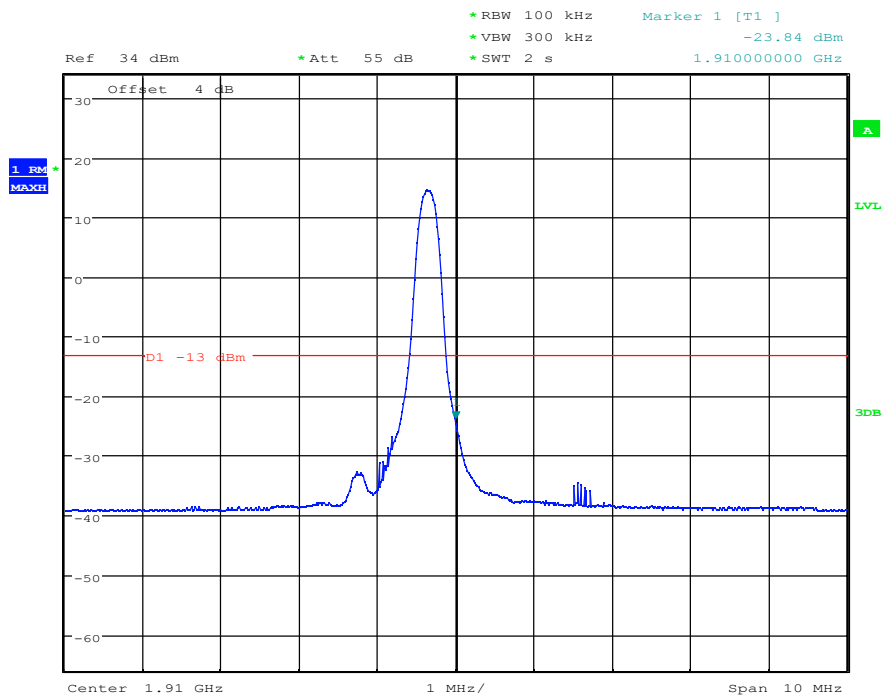
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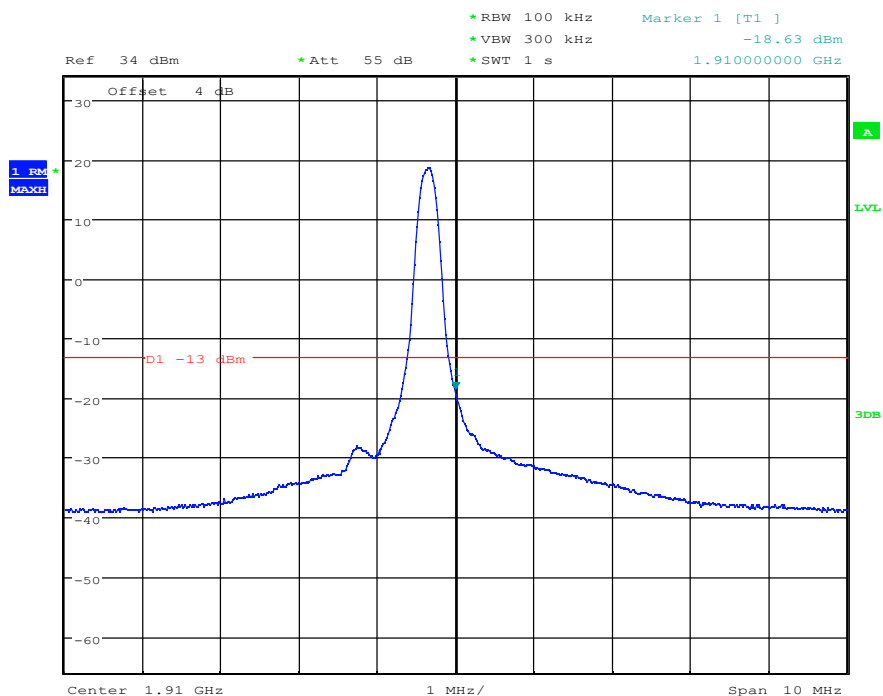
Report No.: I21W00004-WWAN_Rev2

5.5.3 CAT-M Band2 Edge Results



Date: 27.DEC.2020 04:42:56

Band2-High Channel-1.4MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 05:08:20

Band2-High Channel-1.4MHz Bandwidth-1RB-QPSK

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```
* RBW 100 kHz      Marker 1 [T1 ]
* VBW 300 kHz      -23.01 dBm
* SWT 2 s          1.910000000 GHz
```



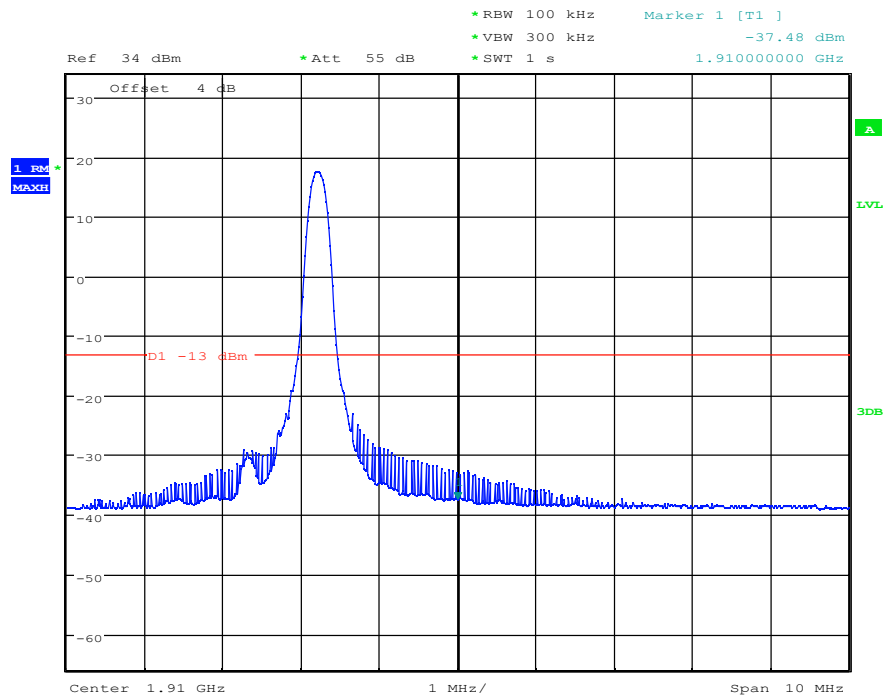
```
* RBW 100 kHz      Marker 1 [T1 ]
* VBW 300 kHz      -18.23 dBm
* SWT 1 s          1.910000000 GHz
```



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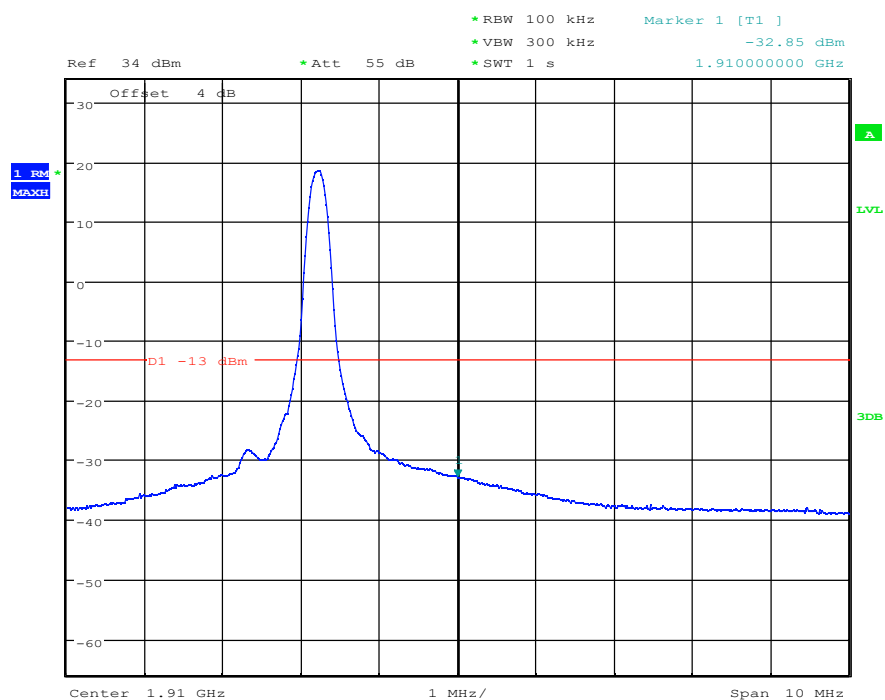


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:24:50

Band2-High Channel-3MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 05:28:55

Band2-High Channel-3MHz Bandwidth-1RB-QPSK

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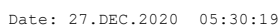
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX:0086-23-88608777



```
* RBW 100 kHz      Marker 1 [T1 ]
* VBW 300 kHz      -35.75 dBm
* SWT 1 s          1.910000000 GHz
```



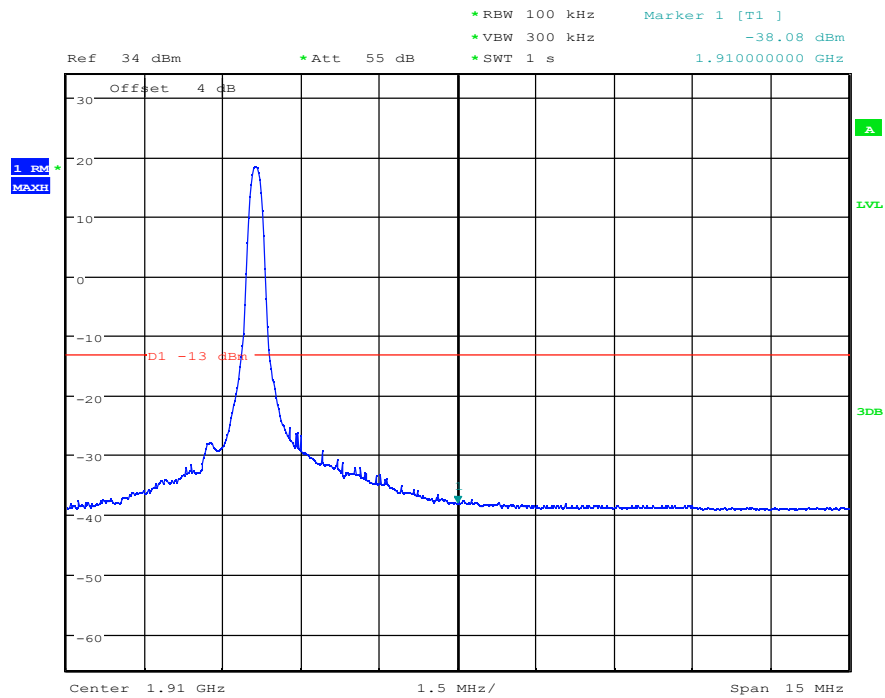
```
*RBW 100 kHz      Marker 1 [T1 ]
*VBW 300 kHz      -32.74 dBm
*SWT 1 s          1.910000000 GHz
```



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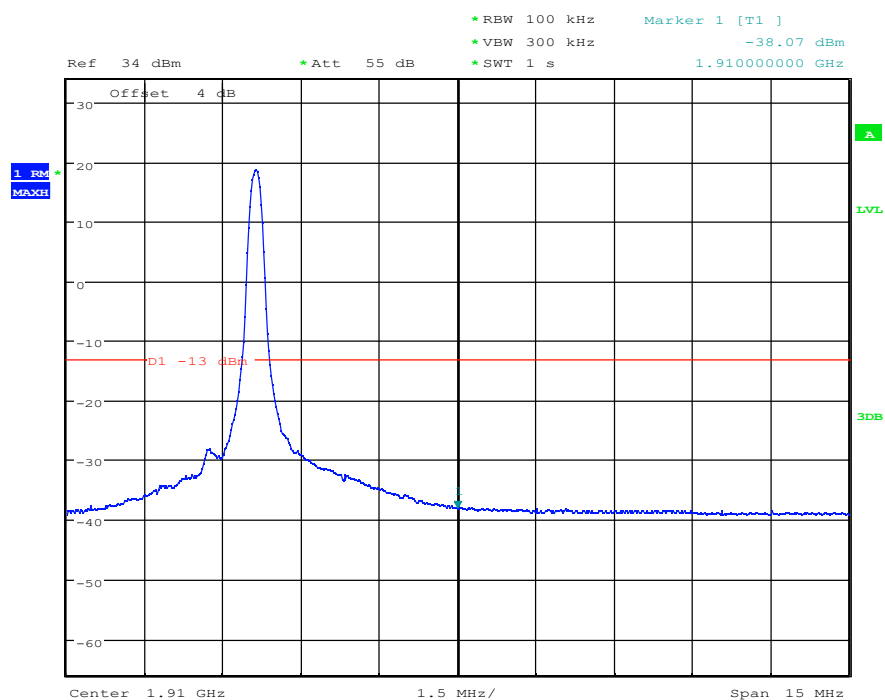


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:41:58

Band2-High Channel-5MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 05:40:53

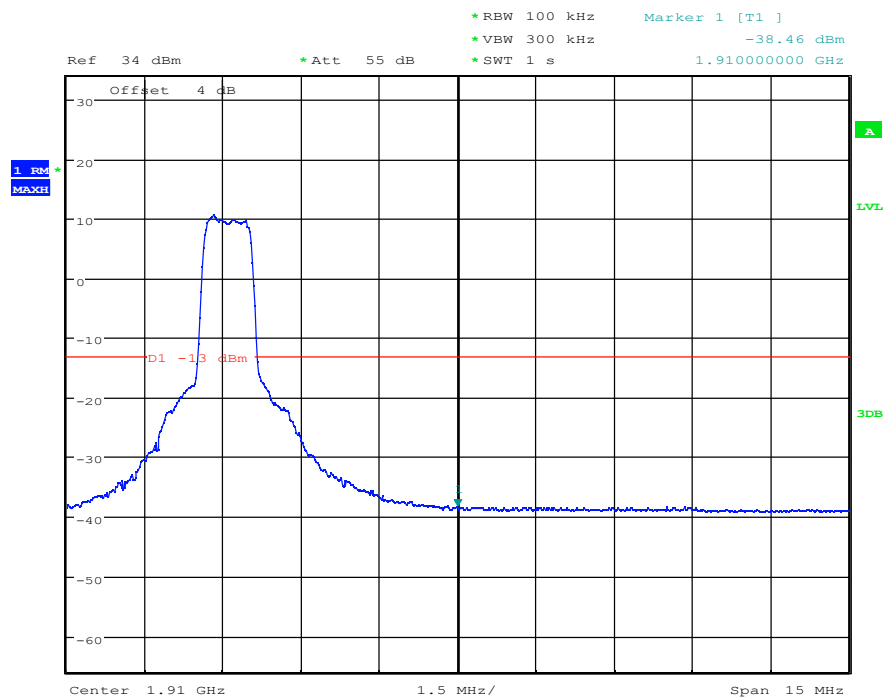
Band2-High Channel-5MHz Bandwidth-1RB-QPSK

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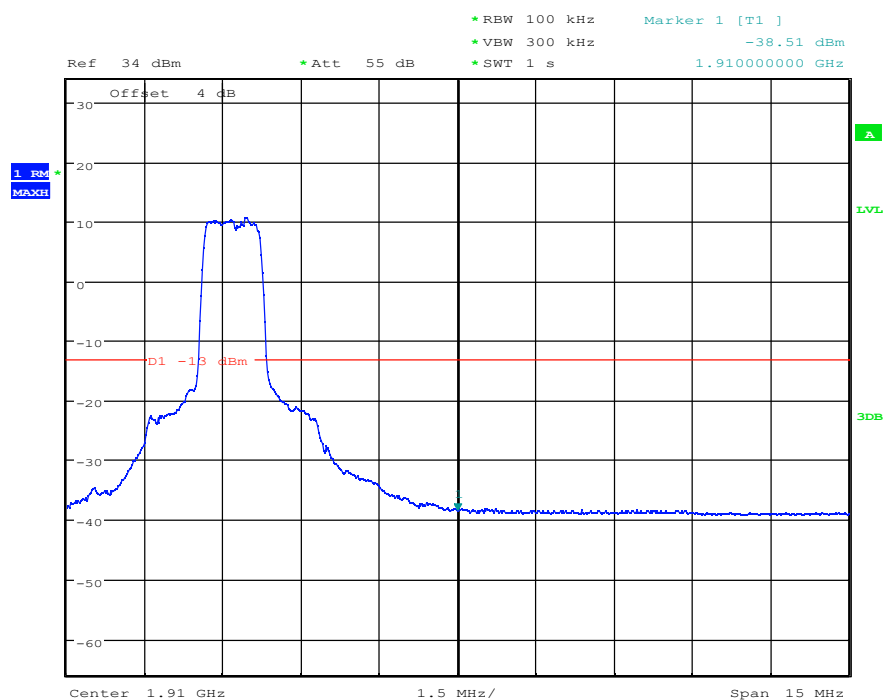


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 05:42:55

Band2-High Channel-5MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 05:39:37

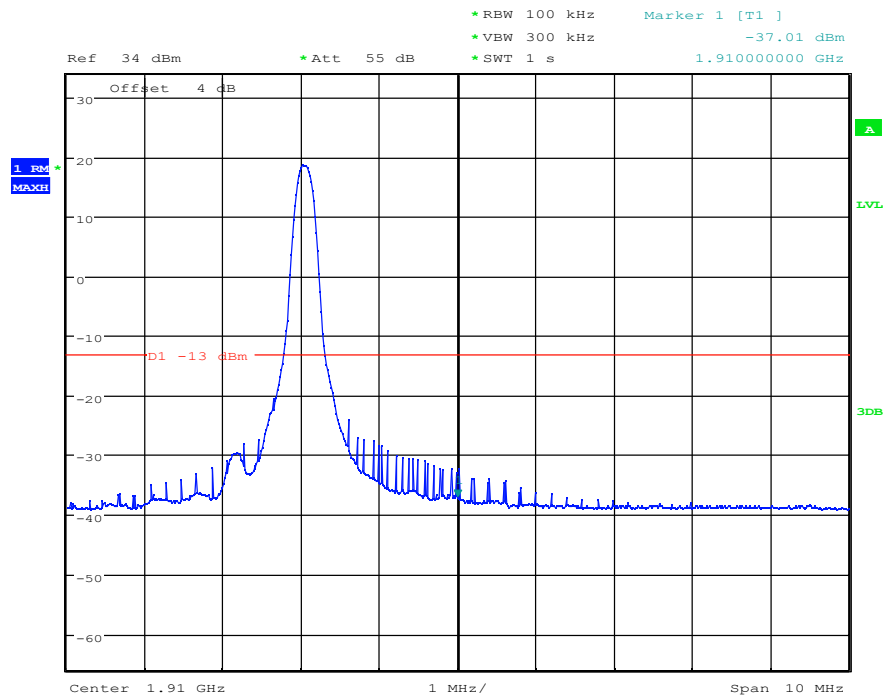
Band2-High Channel-5MHz Bandwidth-6RB-QPSK

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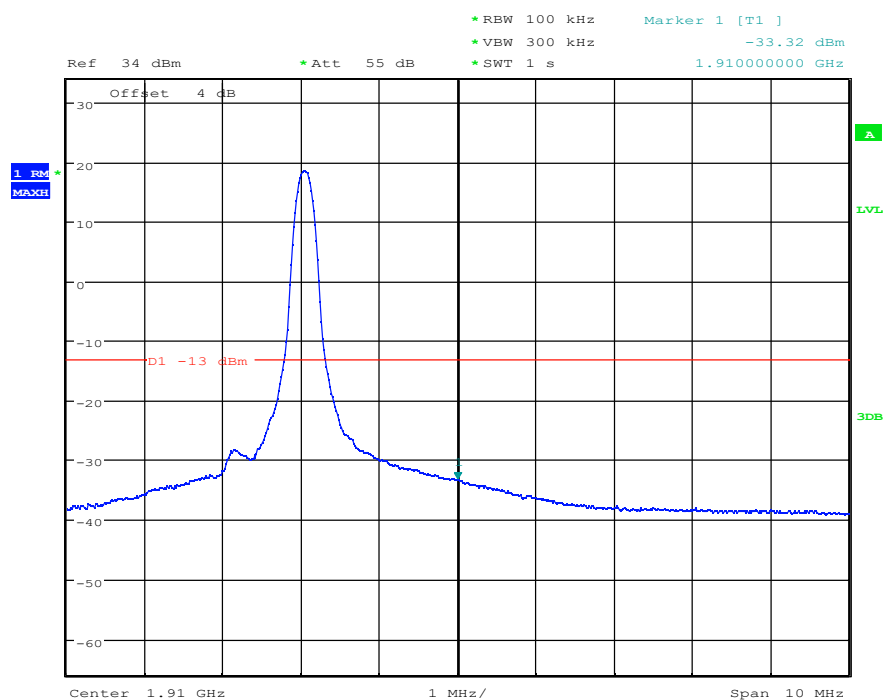


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:27:18

Band2-High Channel-10MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:28:32

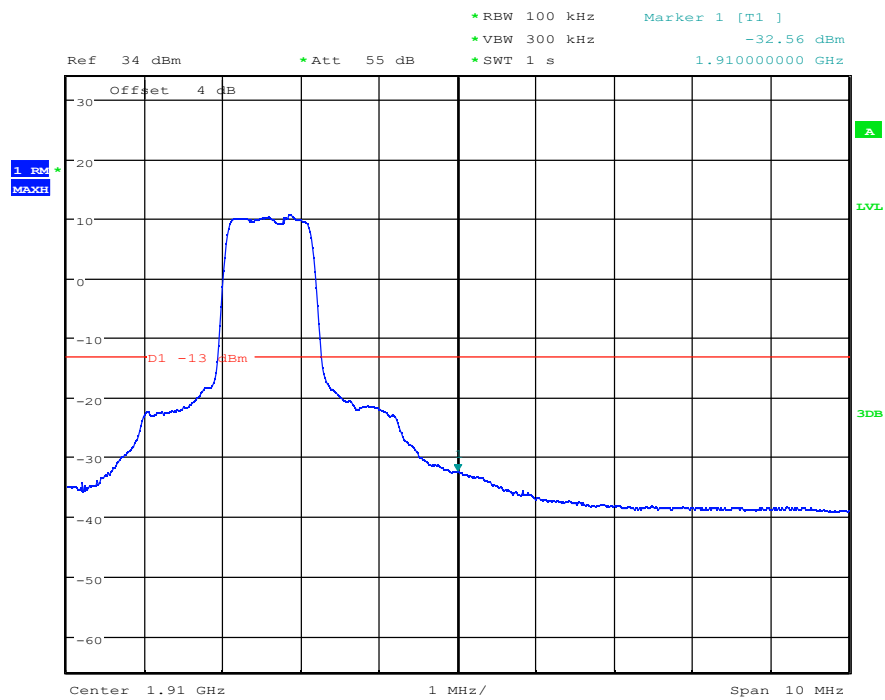
Band2-High Channel-10MHz Bandwidth-1RB-QPSK

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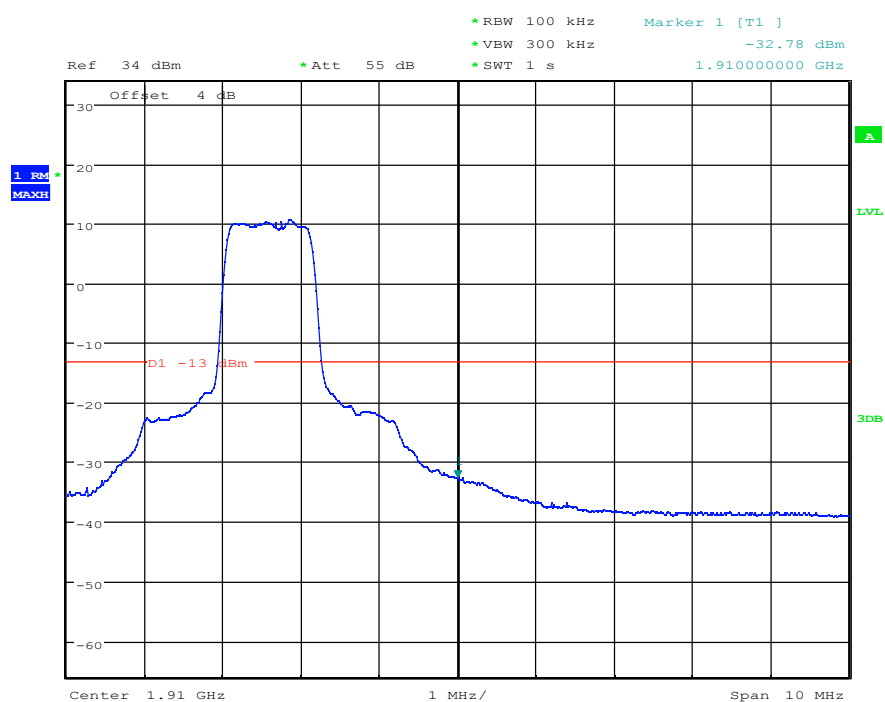


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:26:13

Band2-High Channel-10MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 08:29:41

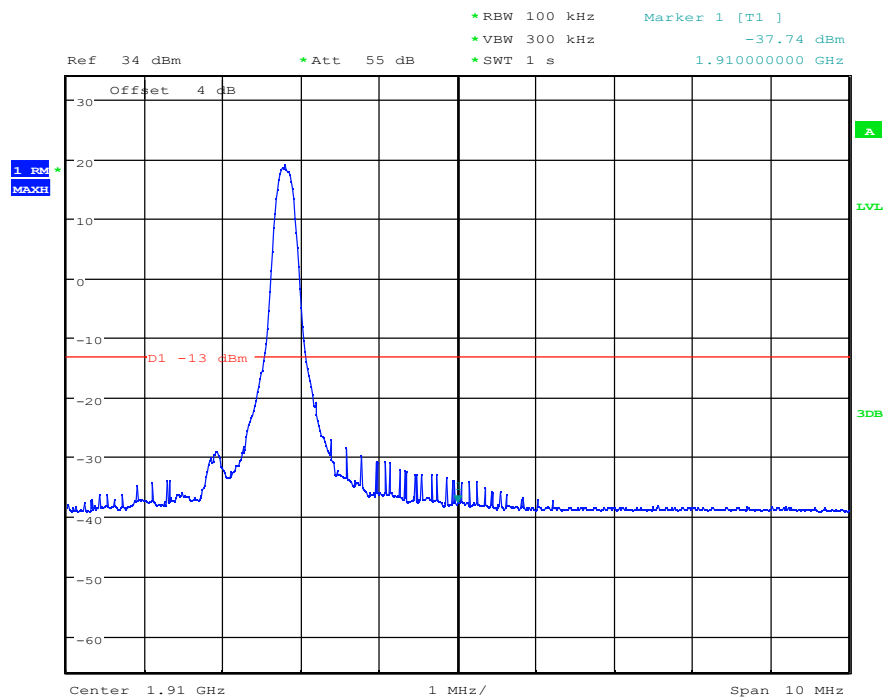
Band2-High Channel-10MHz Bandwidth-6RB-QPSK

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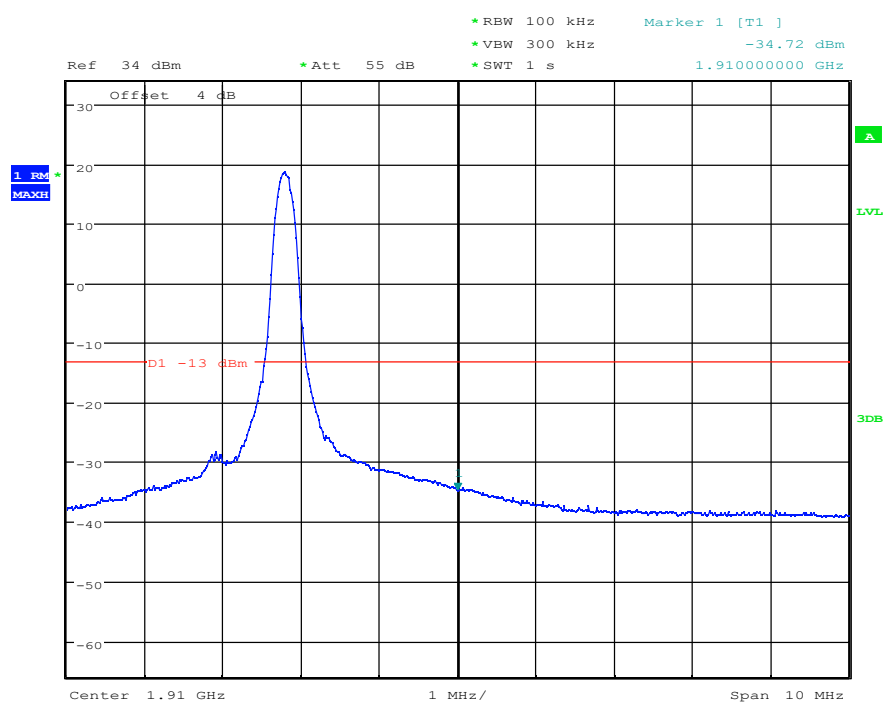


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:17:01

Band2-High Channel-15MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:16:10

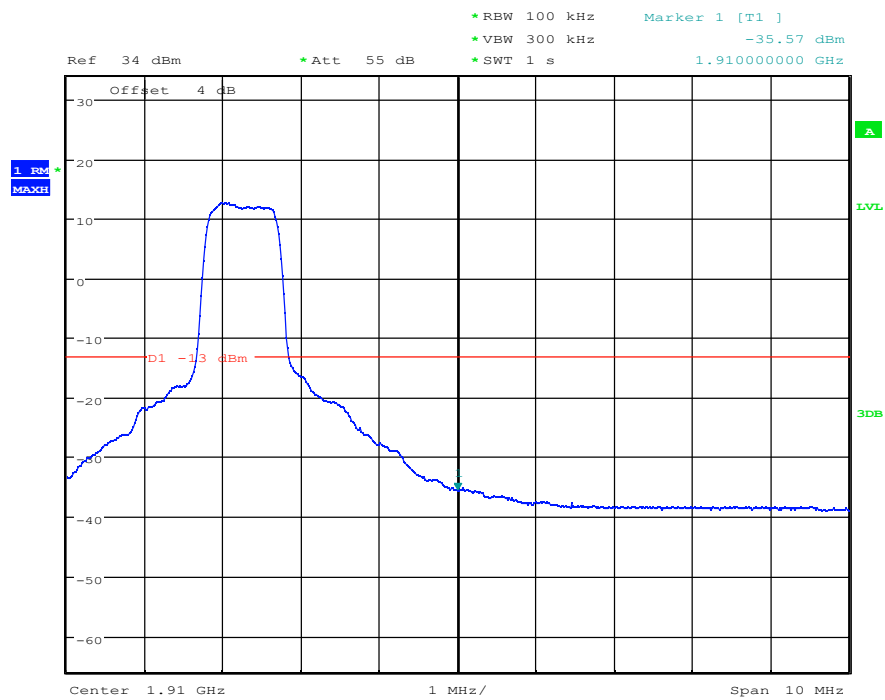
Band2-High Channel-15MHz Bandwidth-1RB-QPSK

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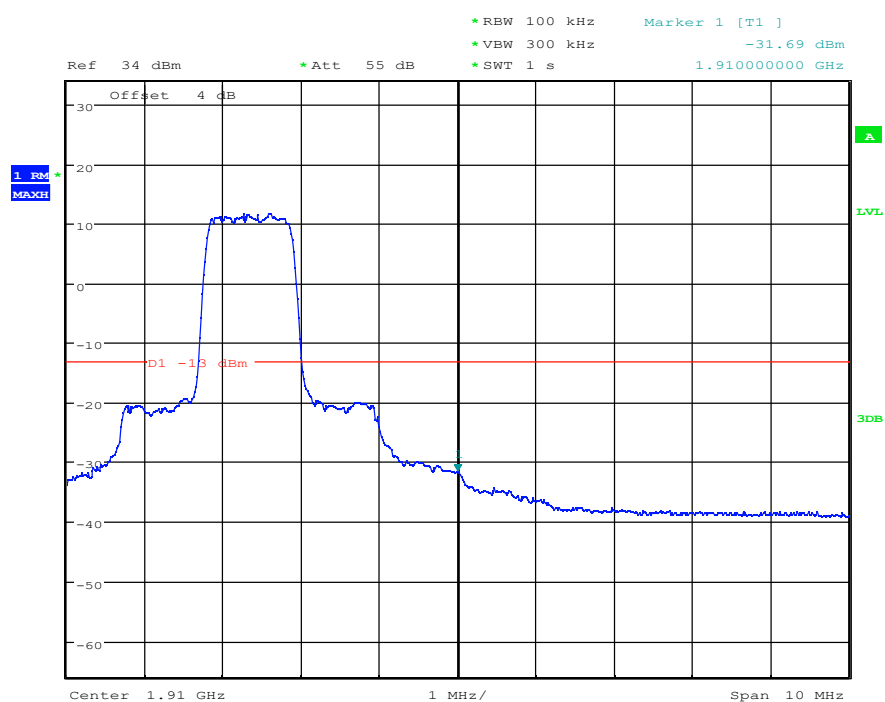


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:22:27

Band2-High Channel-15MHz Bandwidth-6RB-16QAM



Date: 27.DEC.2020 08:15:19

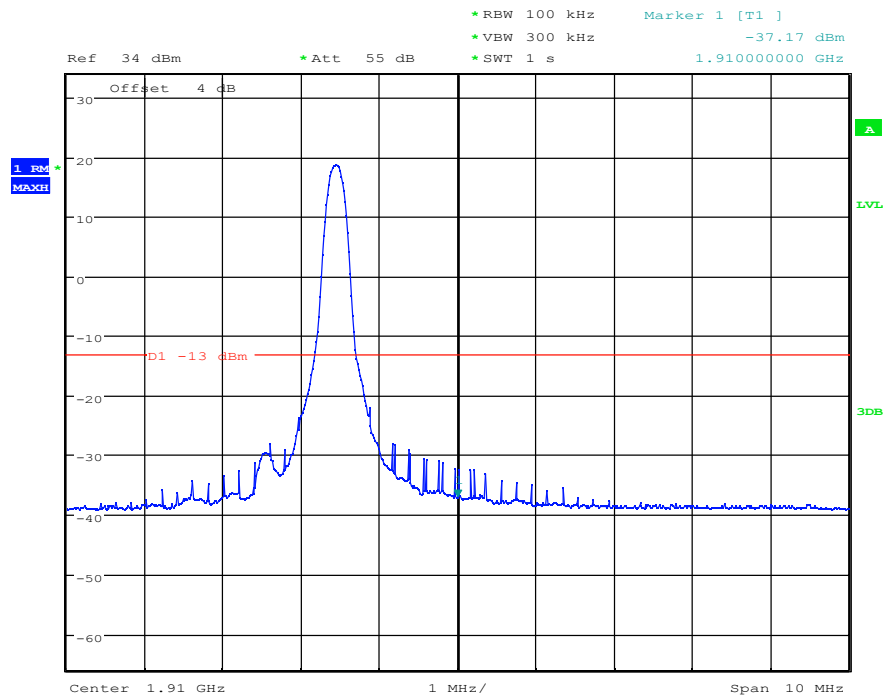
Band2-High Channel-15MHz Bandwidth-6RB-QPSK

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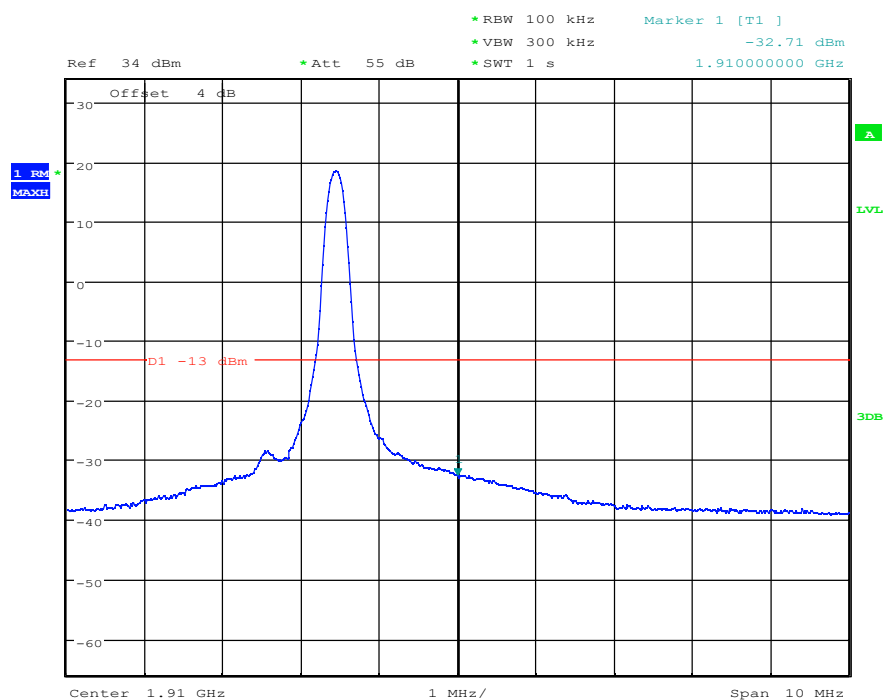


Report No.: I21W00004-WWAN_Rev2



Date: 27.DEC.2020 08:10:06

Band2-High Channel-20MHz Bandwidth-1RB-16QAM



Date: 27.DEC.2020 08:11:08

Band2-High Channel-20MHz Bandwidth-1RB-QPSK

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