

Data File : VL036788.D
Acq On : 12 Apr 2021 14:00
Operator : SY/AP
Sample : M1877-10DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)DL

Quant Time: Apr 12 16:38:05 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1549876	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3806996	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3021466	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1990631	8.27	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	9109	0.036	ppbv	97
4) Chloromethane	3.14	50	4026	0.039	ppbv #	79
9) Propene	3.02	41	33127	0.359	ppbv	98
13) Ethanol	3.62	45	2777301	252.639	ppbv	93
15) Acetone	3.85	43	2341592	15.350	ppbv	93
16) 1,3-Butadiene	3.32	39	3386	0.032	ppbv #	13
17) tert-Butyl alcohol	4.31	59	15597	0.117	ppbv #	72
19) Isopropyl Alcohol	3.99	45	828483	9.873	ppbv	100
20) Methylene Chloride	4.35	84	120064	1.681	ppbv	98
21) Allyl Chloride	4.38	41	17152	0.141	ppbv #	1
23) Vinyl Acetate	5.06	43	99010	0.379	ppbv #	1
25) Ethyl Acetate	5.70	43	96011	0.265	ppbv #	78
26) Hexane	5.70	57	141728	0.842	ppbv #	46
34) 2-Butanone	5.26	43	9900	0.053	ppbv #	1
36) Benzene	6.91	78	10672	0.030	ppbv #	86
39) 1,2-Dichloropropane	7.19	63	979870	6.880	ppbv #	23
44) 2,2,4-Trimethylpentane	7.89	57	330939	0.536	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	15026	0.037	ppbv #	58
80) Naphthalene,2-methyl-	25.10	142	1775	0.038	ppbv	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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ClientSampleId :

UP-SG-7(2021)DL

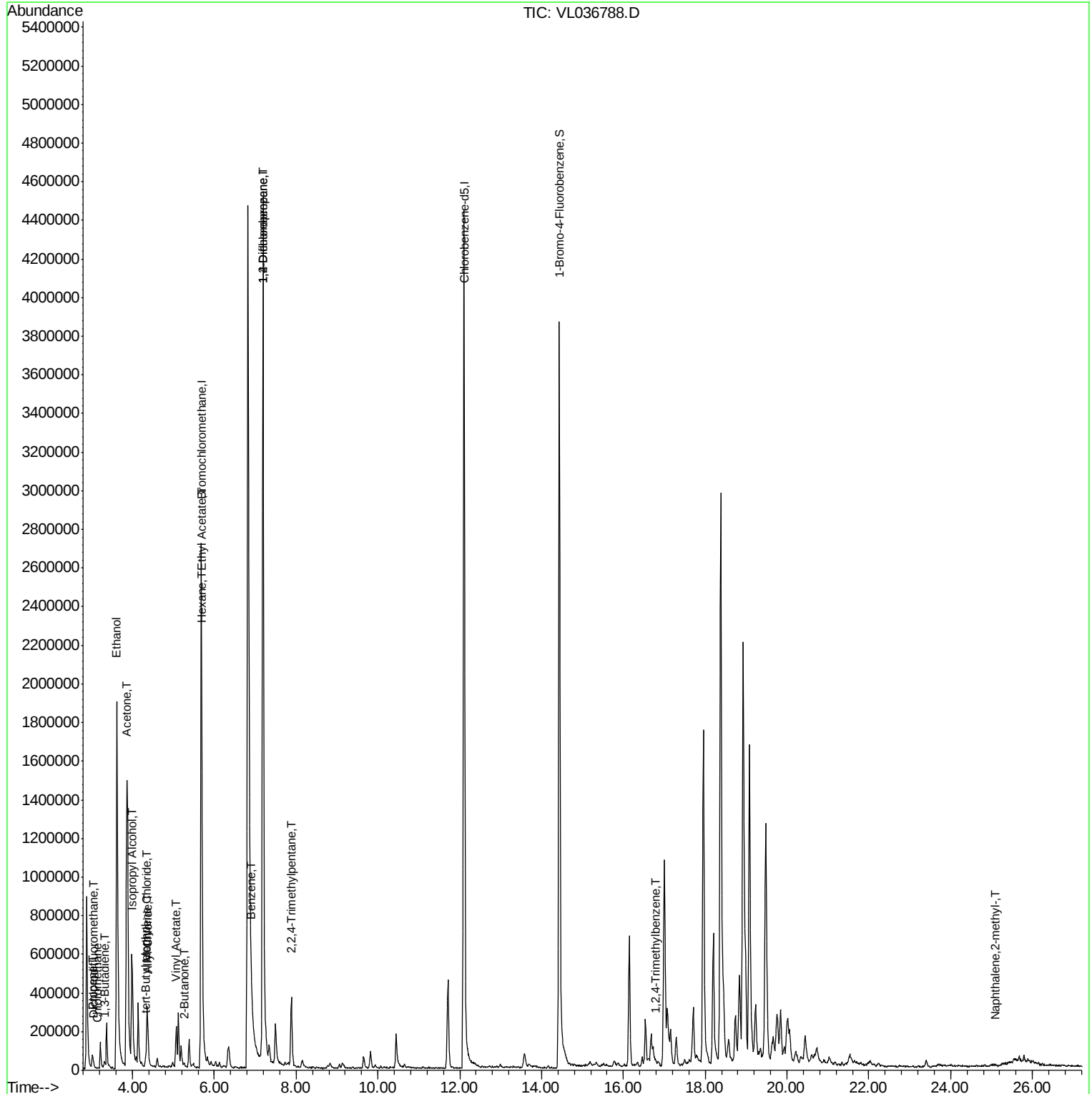
Quant Time: Apr 12 16:38:05 2021

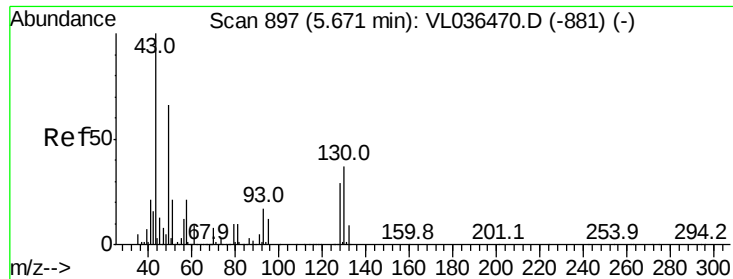
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

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MSVOA_L

ClientSampleId :

UP-SG-7(2021)DL

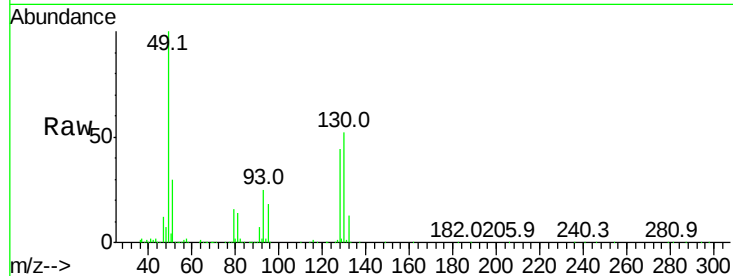
Tgt Ion: 49 Resp: 1549876

Ion Ratio Lower Upper

49 100

128 45.6 23.5 70.6

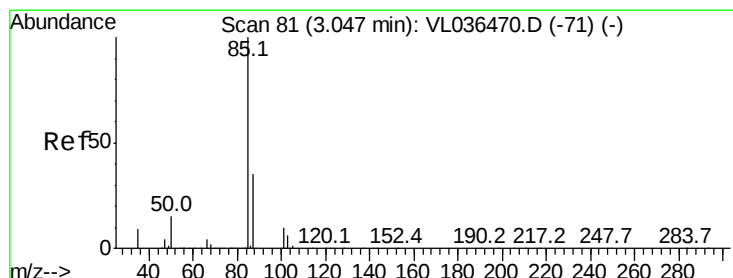
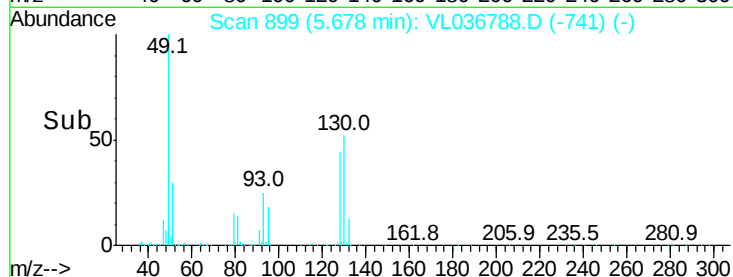
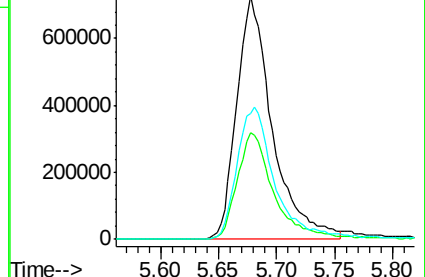
130 59.0 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036788.D

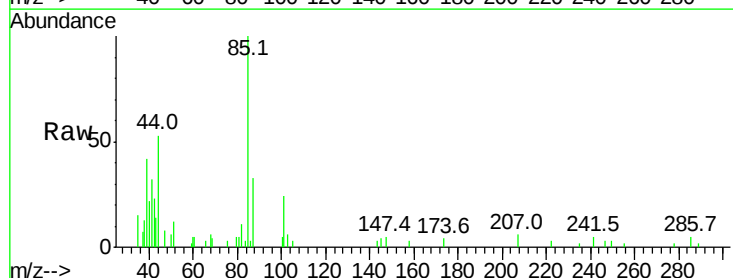
Acq: 12 Apr 2021 14:00

Tgt Ion: 85 Resp: 9109

Ion Ratio Lower Upper

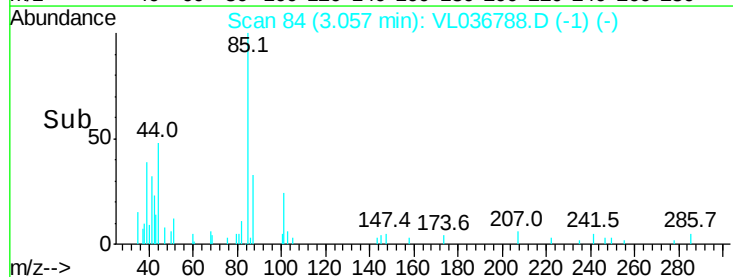
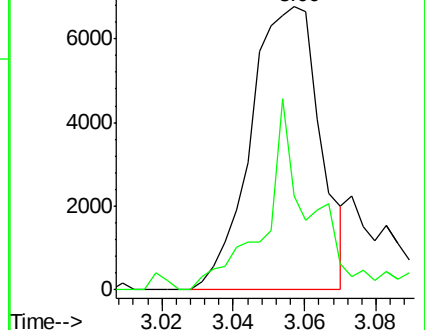
85 100

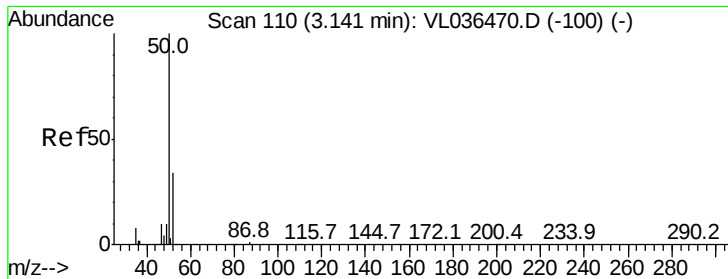
87 33.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

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ClientSampleId :

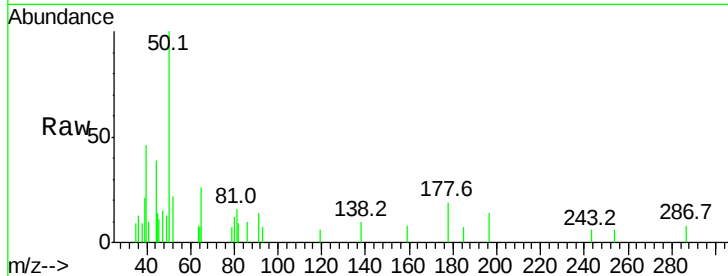
UP-SG-7(2021)DL

Tgt Ion: 50 Resp: 4026

Ion Ratio Lower Upper

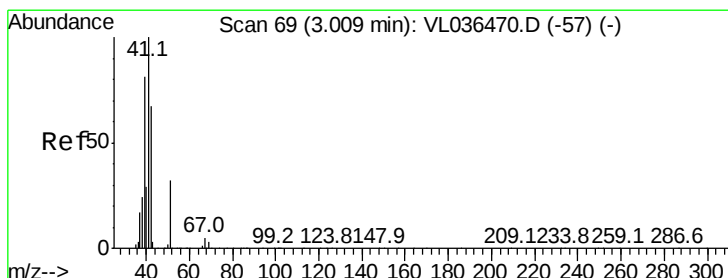
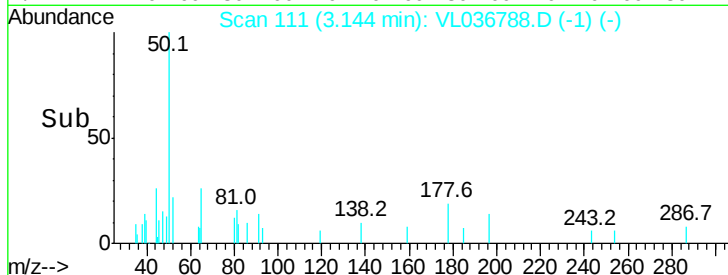
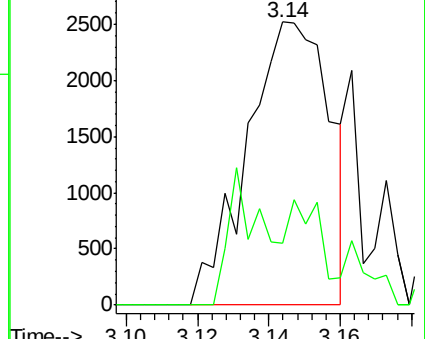
50 100

52 21.8 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.359 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036788.D

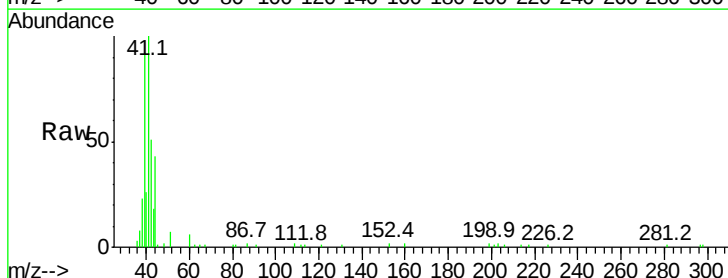
Acq: 12 Apr 2021 14:00

Tgt Ion: 41 Resp: 33127

Ion Ratio Lower Upper

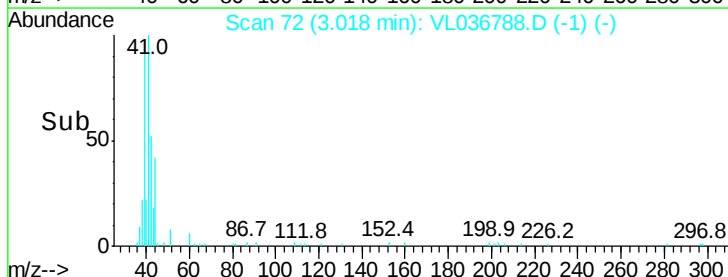
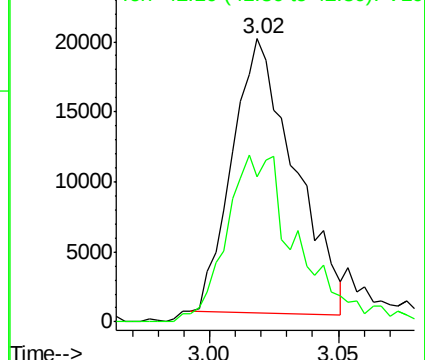
41 100

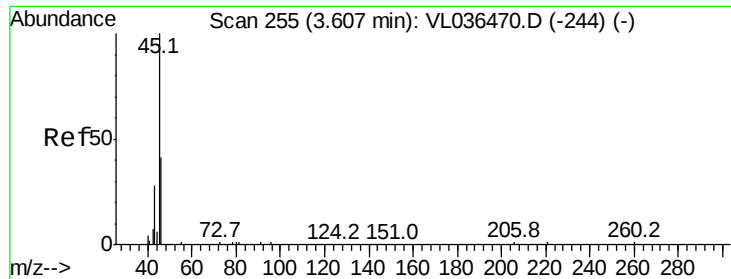
42 69.3 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

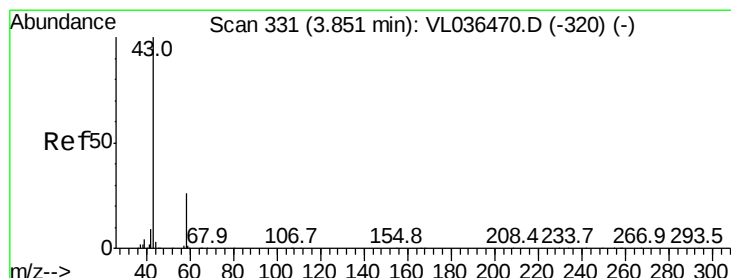
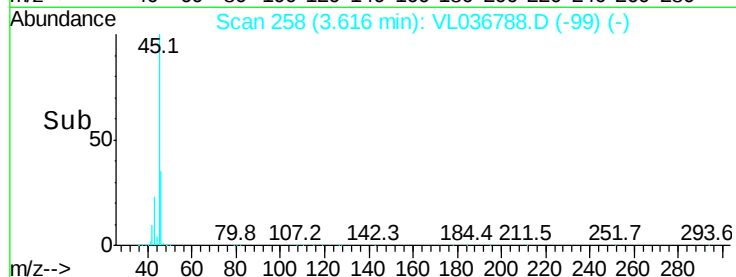
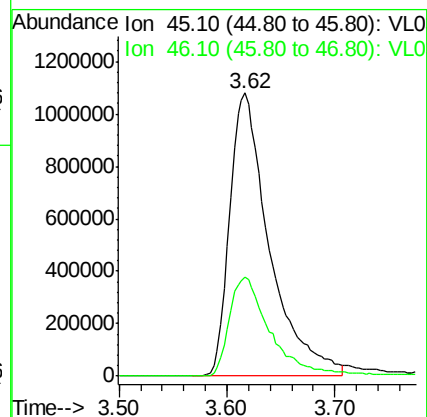
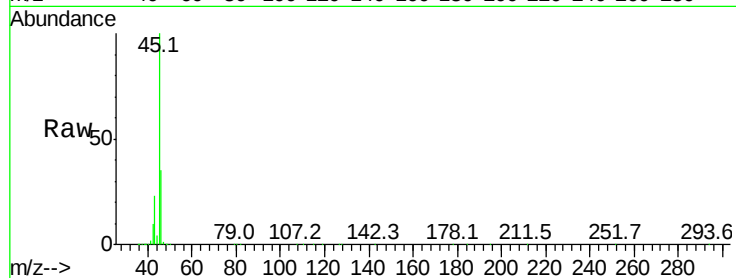




#13
Ethanol
Concen: 252.639 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.01 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

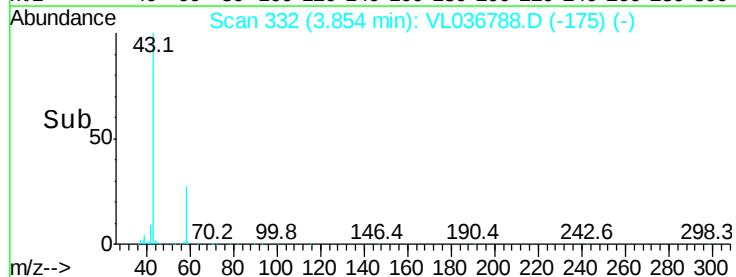
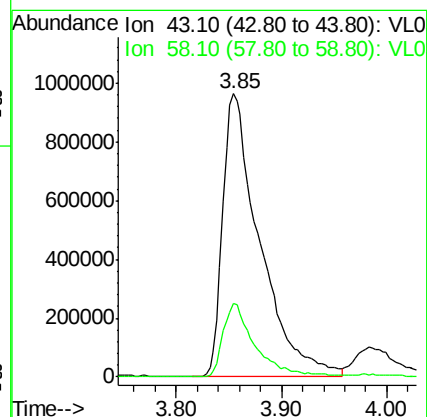
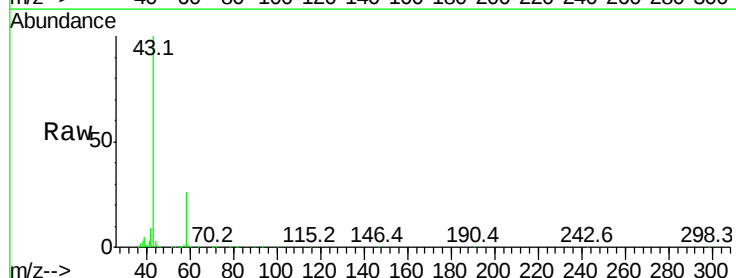
Instrument :
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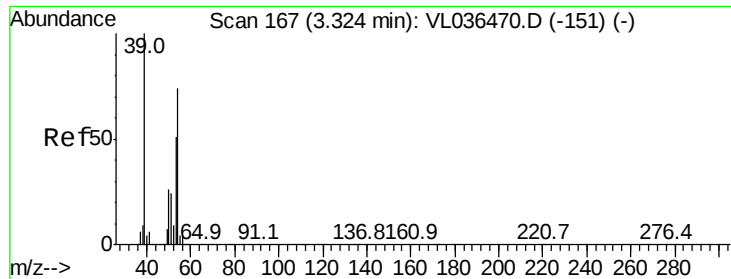
Tgt Ion: 45 Resp: 2777301
Ion Ratio Lower Upper
45 100
46 37.1 16.6 66.2



#15
Acetone
Concen: 15.350 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

Tgt Ion: 43 Resp: 2341592
Ion Ratio Lower Upper
43 100
58 22.7 21.2 31.8

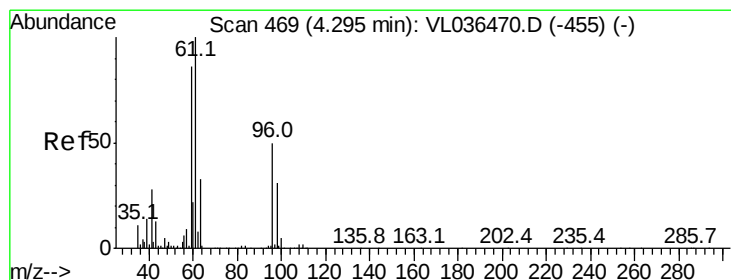
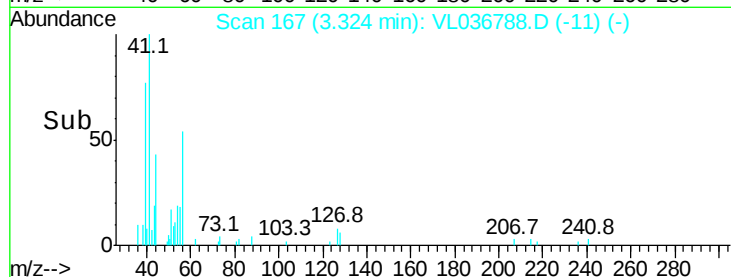
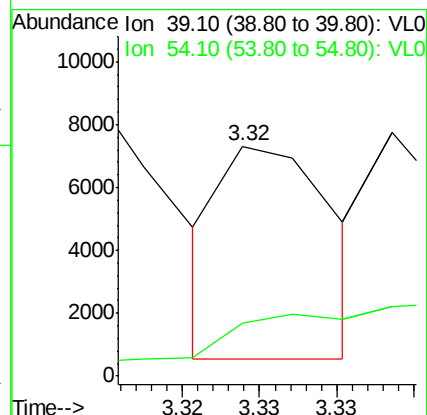
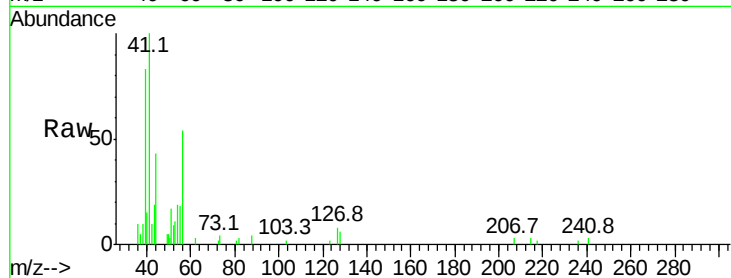




#16
1,3-Butadiene
Concen: 0.032 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.00 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

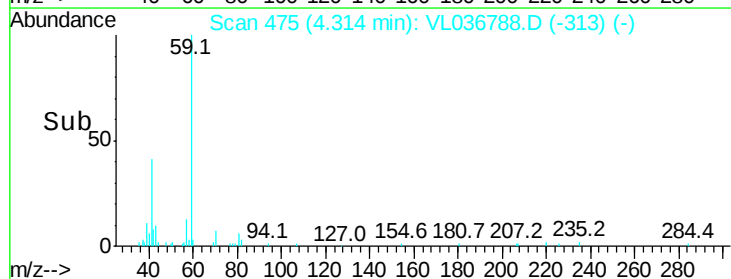
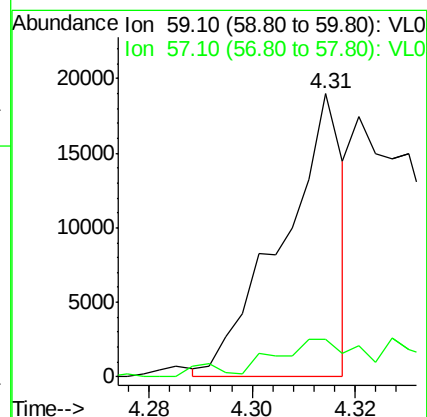
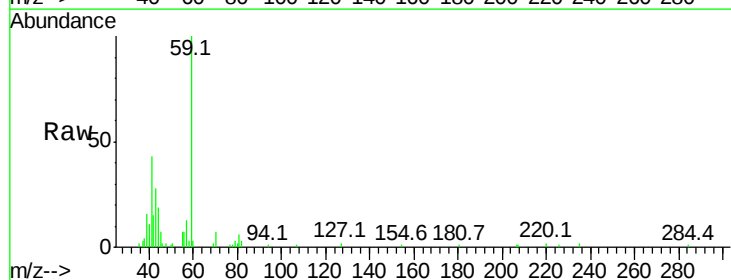
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)DL

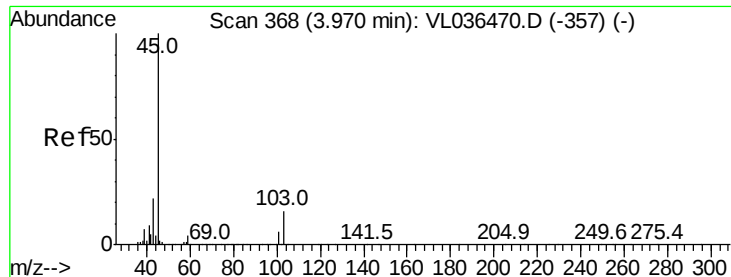
Tgt Ion: 39 Resp: 3386
Ion Ratio Lower Upper
39 100
54 0.0 58.8 88.2#



#17
tert-Butyl alcohol
Concen: 0.117 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

Tgt Ion: 59 Resp: 15597
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 9.873 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

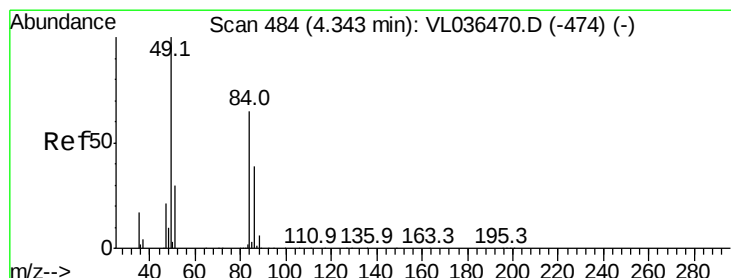
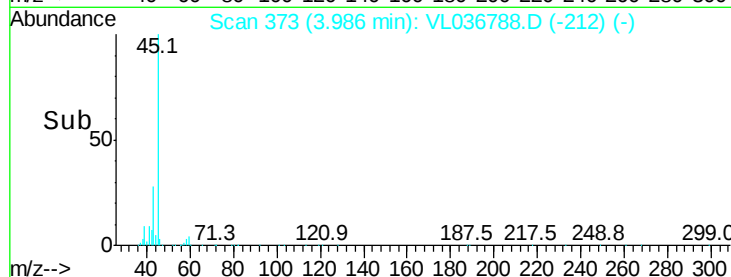
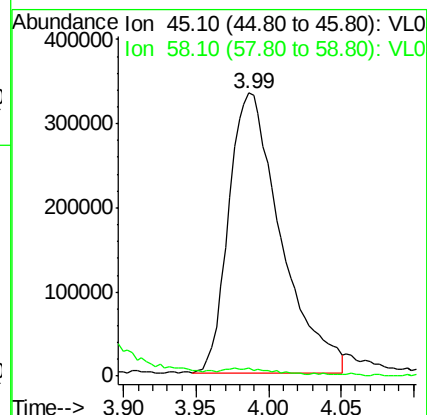
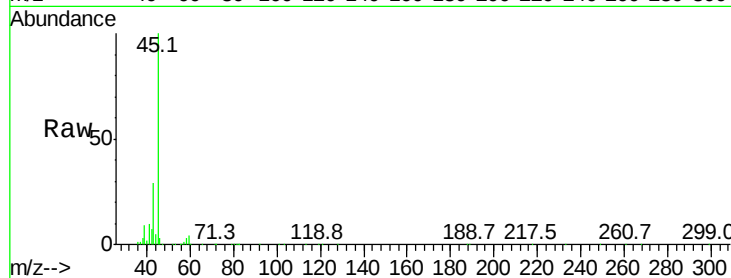
UP-SG-7(2021)DL

Tgt Ion: 45 Resp: 828483

Ion Ratio Lower Upper

45 100

58 3.6 2.9 4.3



#20

Methylene Chloride

Concen: 1.681 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Tgt Ion: 84 Resp: 120064

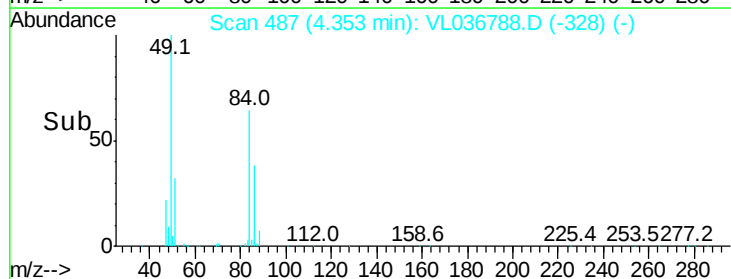
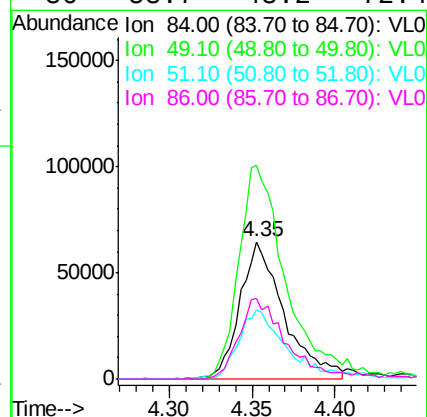
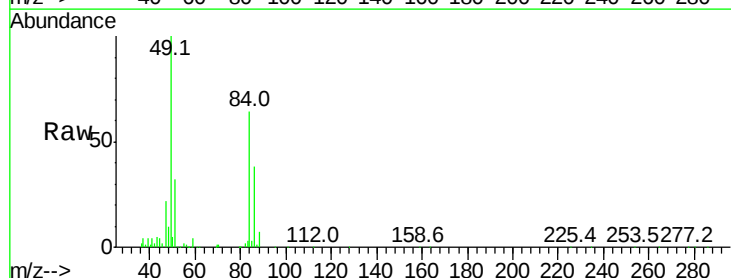
Ion Ratio Lower Upper

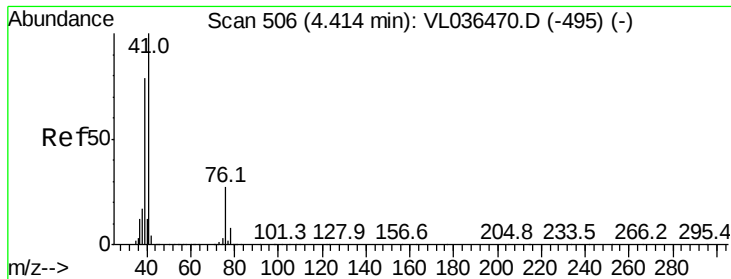
84 100

49 155.3 122.9 184.3

51 49.8 36.9 55.3

86 58.7 48.2 72.4





#21

Allyl Chloride

Concen: 0.141 ppbv

RT: 4.38 min Scan# 494

Delta R.T. -0.04 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)DL

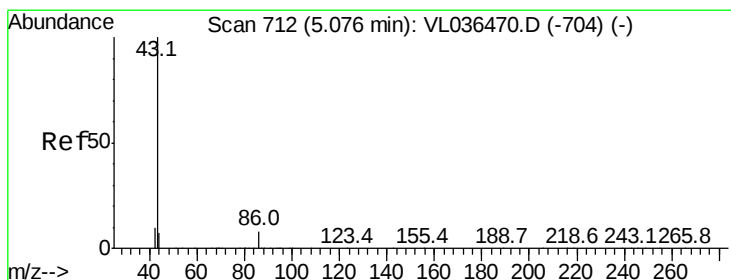
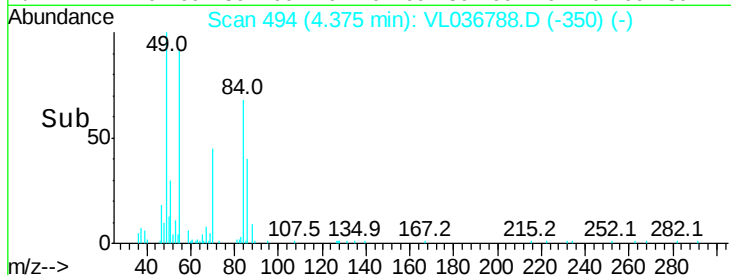
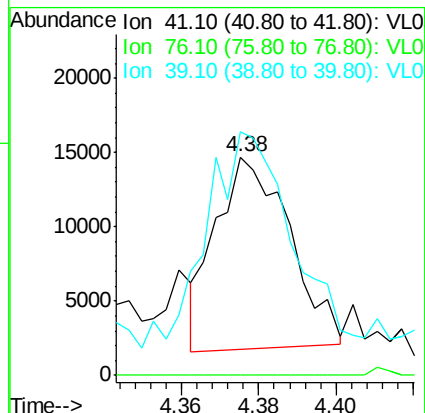
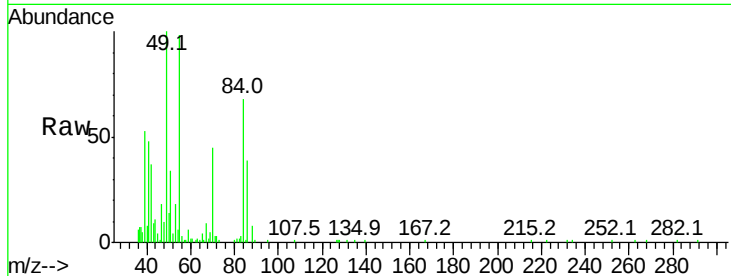
Tgt Ion: 41 Resp: 17152

Ion Ratio Lower Upper

41 100

76 0.8 22.9 34.3#

39 222.4 67.3 100.9#



#23

Vinyl Acetate

Concen: 0.379 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.01 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Tgt Ion: 43 Resp: 99010

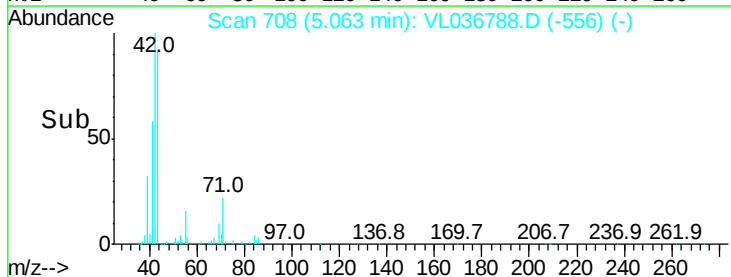
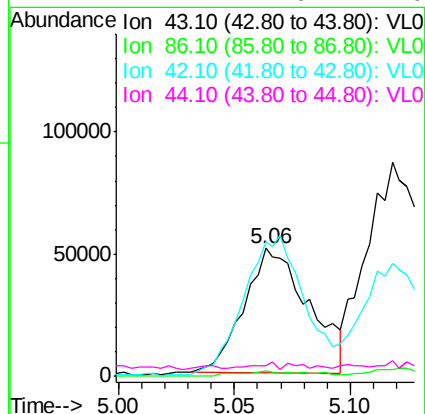
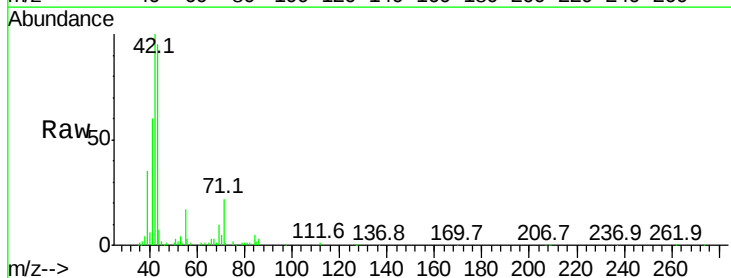
Ion Ratio Lower Upper

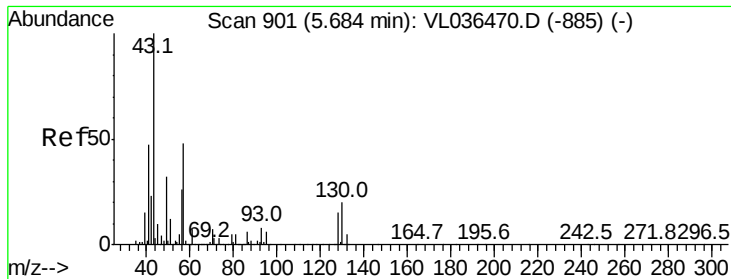
43 100

86 3.6 5.4 8.0#

42 106.4 8.5 12.7#

44 2.2 4.6 7.0#

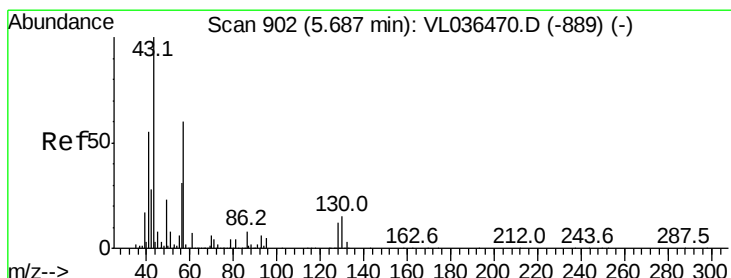
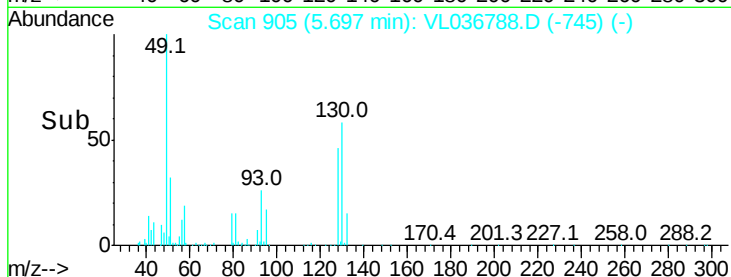
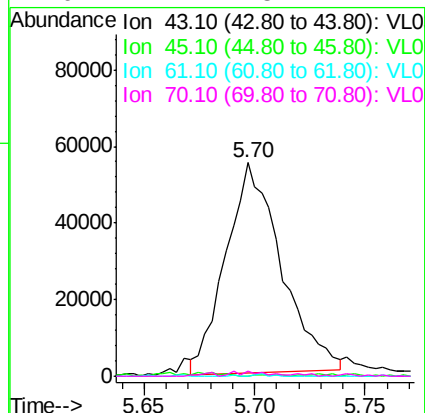
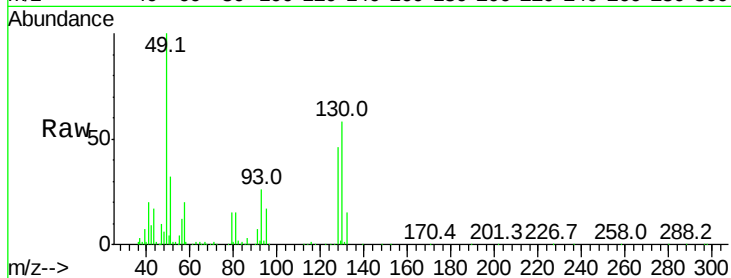




#25
Ethyl Acetate
Concen: 0.265 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

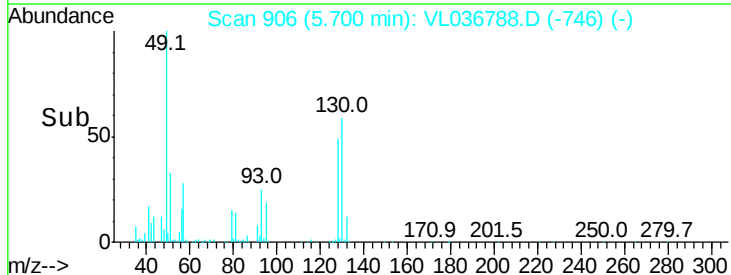
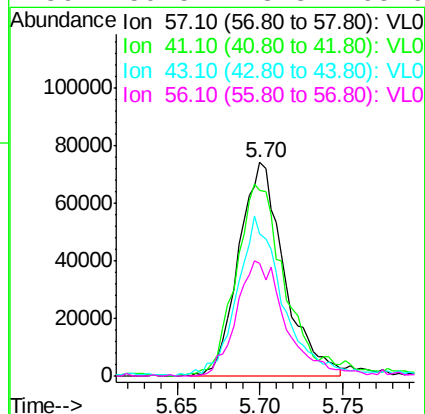
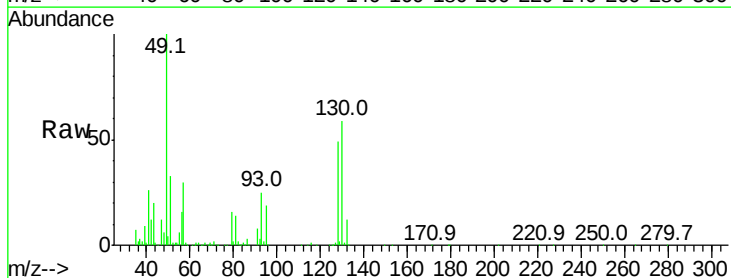
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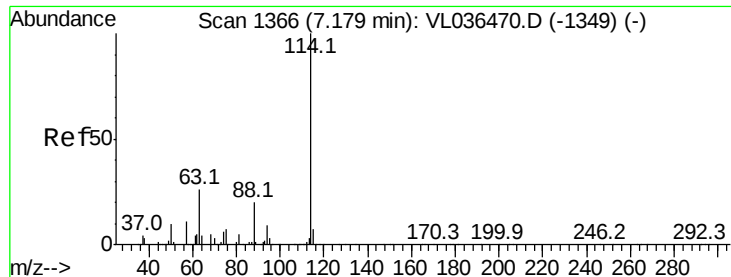
Tgt Ion:	43	Resp:	96011
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.4	7.4	11.2#
70	2.7	5.1	7.7#



#26
Hexane
Concen: 0.842 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036788.D
Acq: 12 Apr 2021 14:00

Tgt Ion:	57	Resp:	141728
Ion	Ratio	Lower	Upper
57	100		
41	99.2	77.2	115.8
43	76.0	173.8	260.6#
56	59.5	43.8	65.6

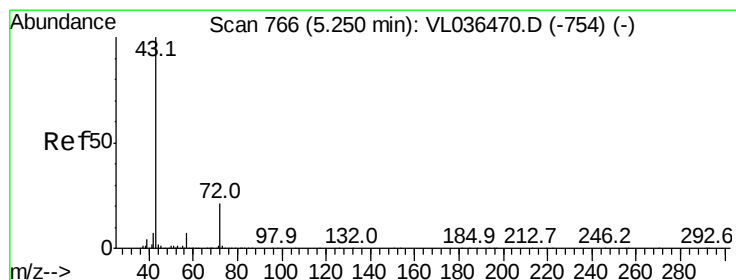
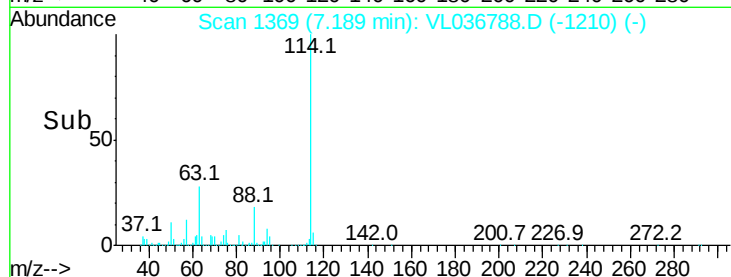
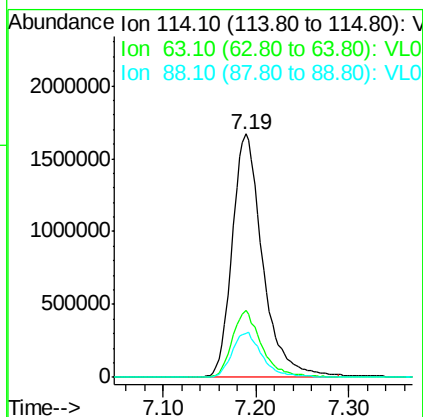
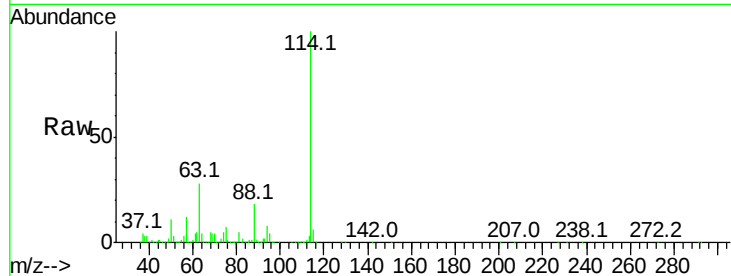




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.01 min
 Lab File: VL036788.D
 Acq: 12 Apr 2021 14:00

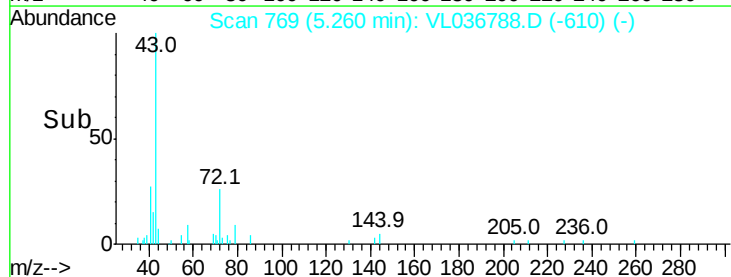
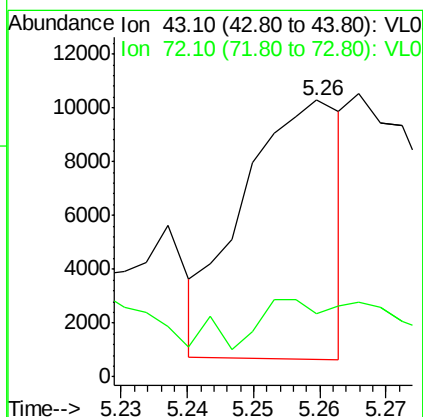
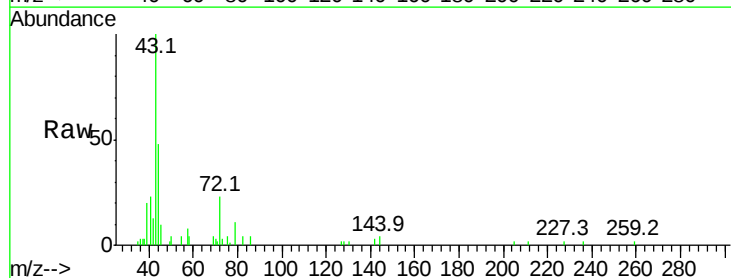
Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)DL

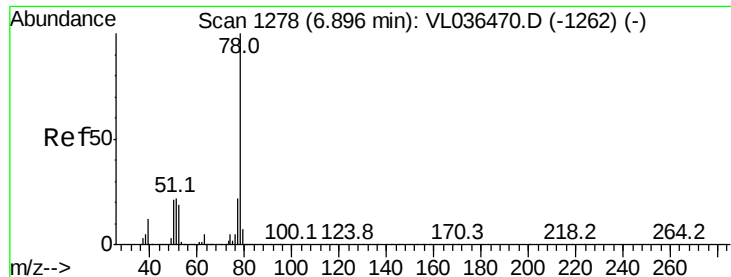
Tgt Ion:114 Resp: 3806996
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.5 15.4 23.0



#34
 2-Butanone
 Concen: 0.053 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL036788.D
 Acq: 12 Apr 2021 14:00

Tgt Ion: 43 Resp: 9900
 Ion Ratio Lower Upper
 43 100
 72 76.0 17.0 25.6#





#36

Benzene

Concen: 0.030 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)DL

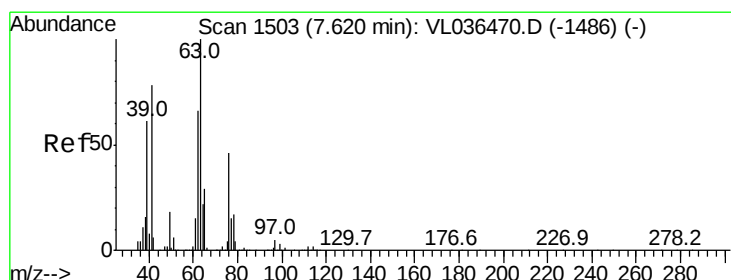
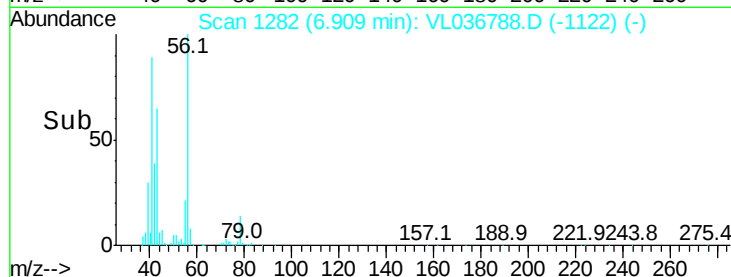
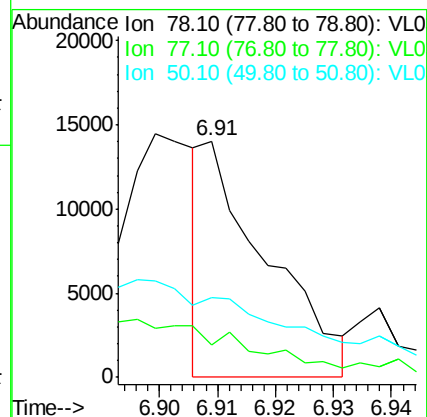
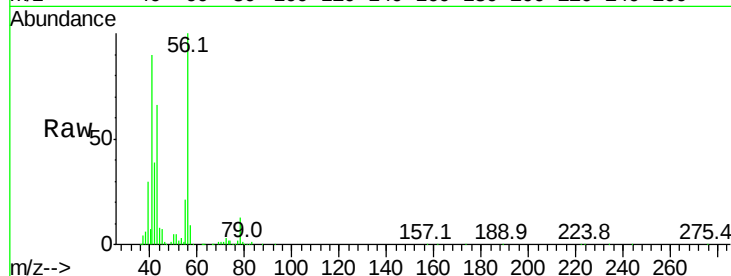
Tgt Ion: 78 Resp: 10672

Ion Ratio Lower Upper

78 100

77 12.1 18.0 27.0#

50 23.6 16.5 24.7



#39

1,2-Dichloropropane

Concen: 6.880 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.43 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

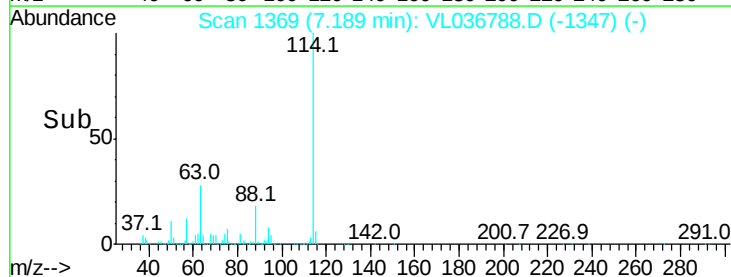
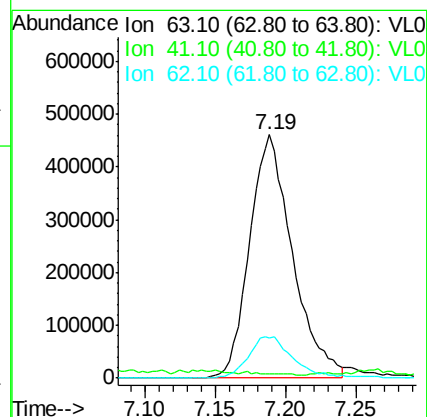
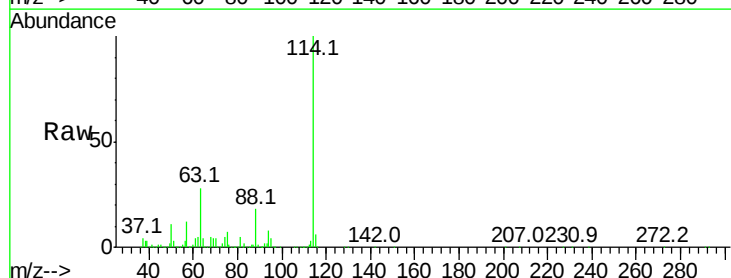
Tgt Ion: 63 Resp: 979870

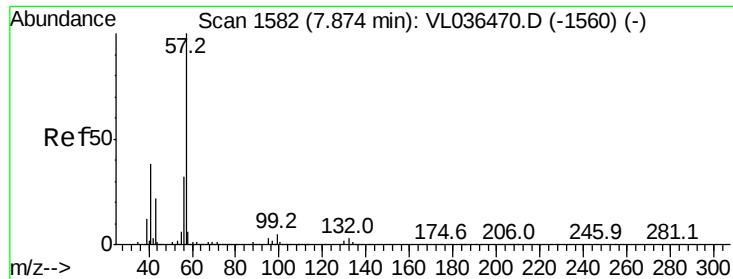
Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 16.4 52.8 79.2#





#44

2,2,4-Trimethylpentane

Concen: 0.536 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)DL

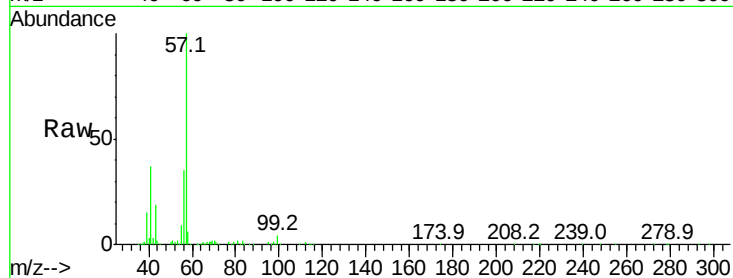
Tgt Ion: 57 Resp: 330939

Ion Ratio Lower Upper

57 100

41 38.7 28.8 43.2

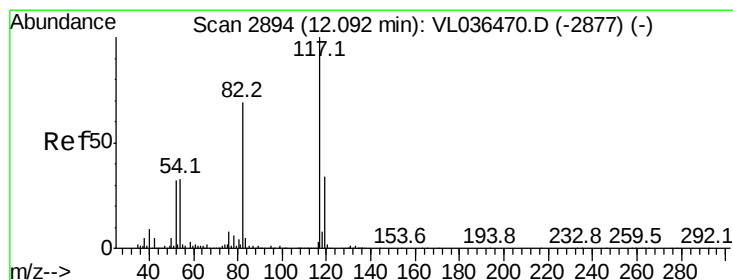
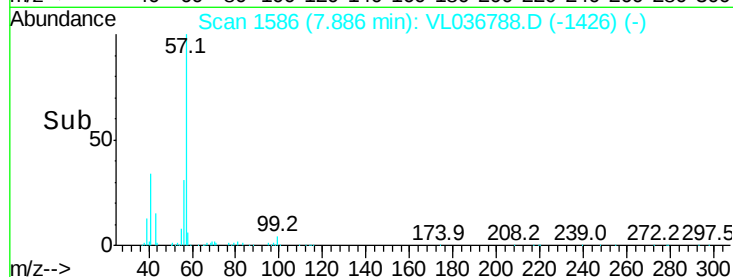
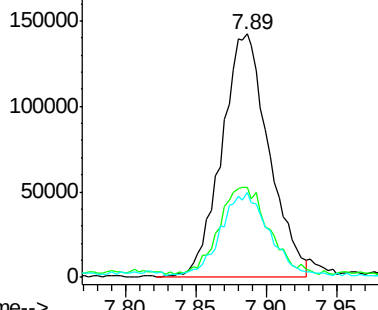
56 37.3 26.1 39.1



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.01 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

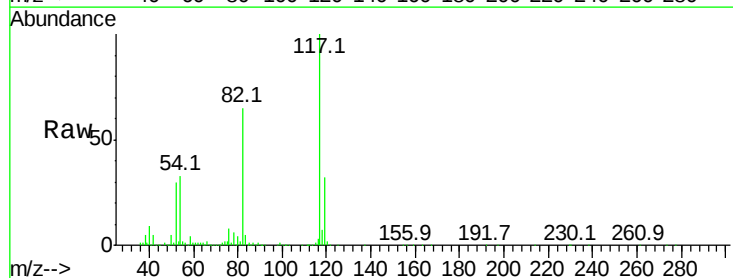
Tgt Ion: 117 Resp: 3021466

Ion Ratio Lower Upper

117 100

82 67.8 57.4 86.0

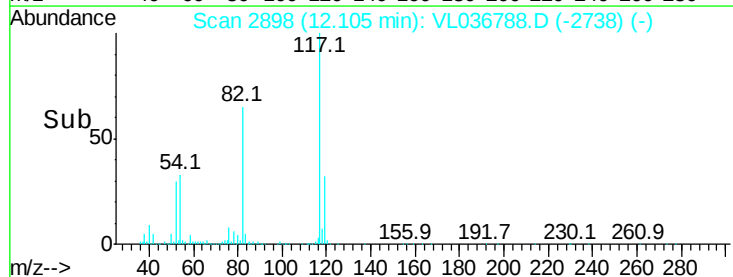
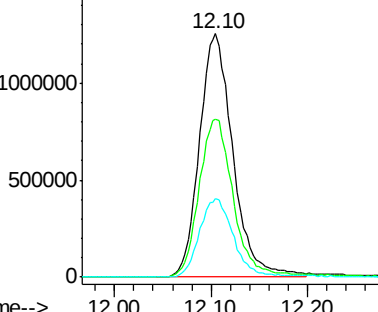
119 33.5 47.4 71.0#

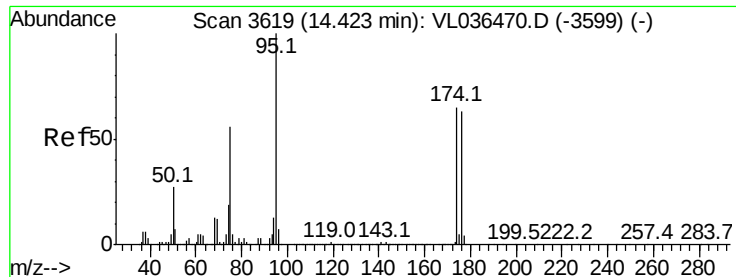


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

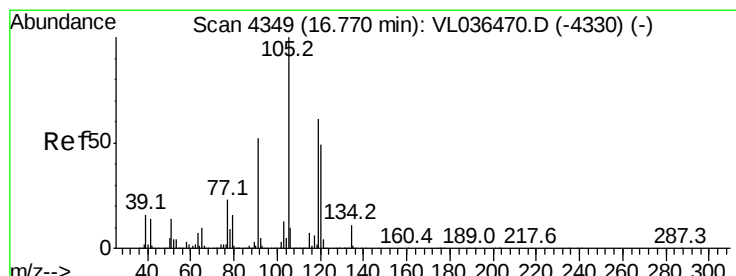
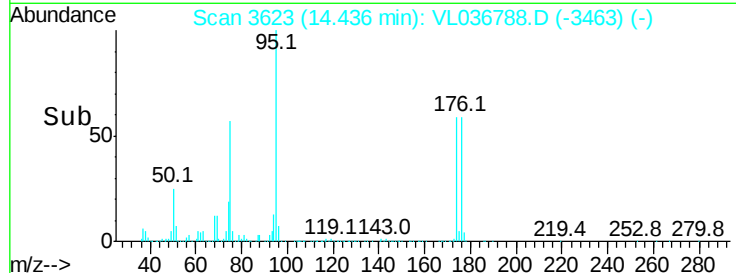
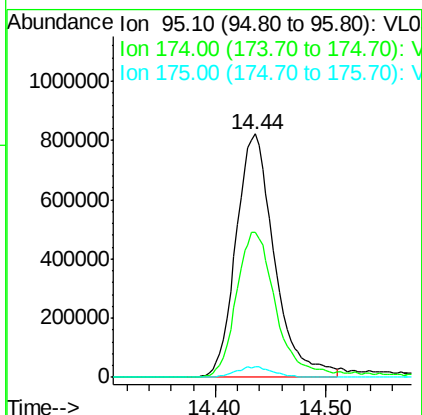
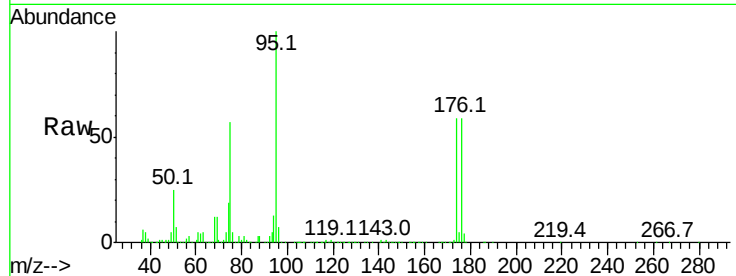




#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.266 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL036788.D
 Acq: 12 Apr 2021 14:00

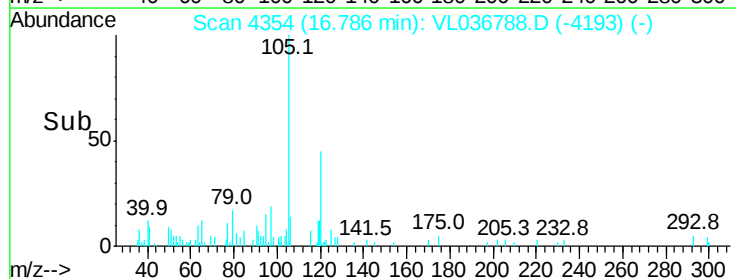
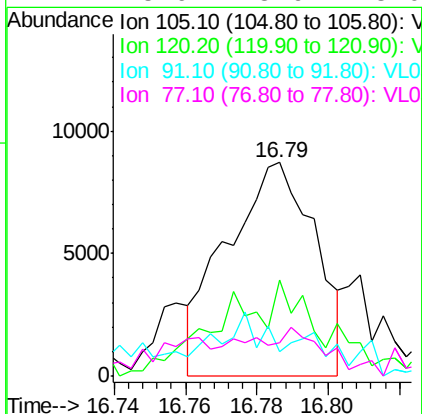
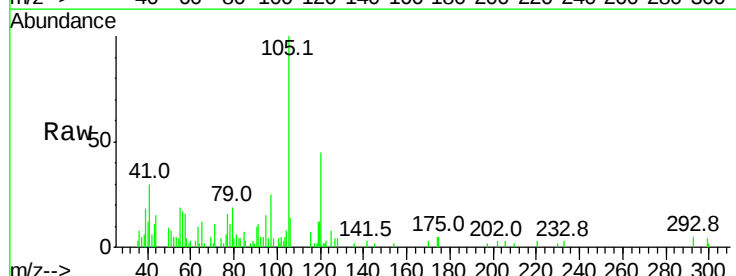
Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)DL

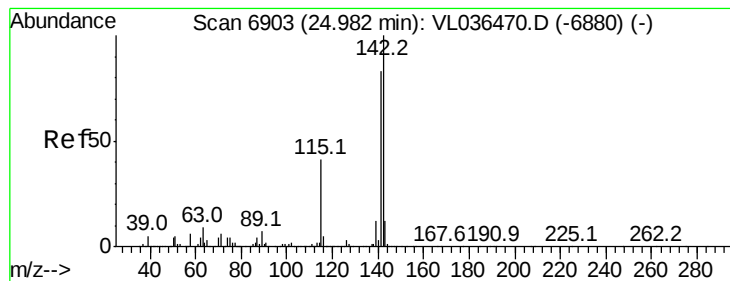
Tgt Ion: 95 Resp: 1990631
 Ion Ratio Lower Upper
 95 100
 174 64.5 51.0 76.6
 175 4.5 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. 0.02 min
 Lab File: VL036788.D
 Acq: 12 Apr 2021 14:00

Tgt Ion: 105 Resp: 15026
 Ion Ratio Lower Upper
 105 100
 120 41.2 39.2 58.8
 91 3.7 42.6 64.0#
 77 3.6 18.6 28.0#





#80

Naphthalene, 2-methyl-

Concen: 0.038 ppbv

RT: 25.10 min Scan# 6939

Delta R.T. 0.12 min

Lab File: VL036788.D

Acq: 12 Apr 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)DL

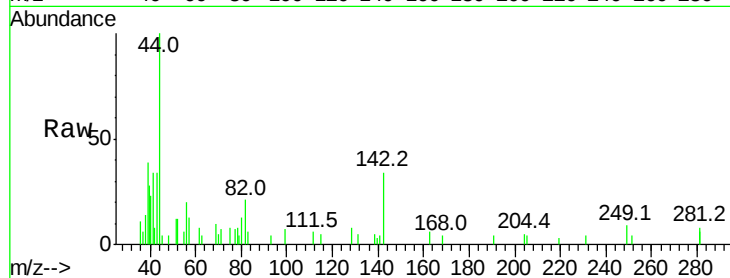
Tgt Ion:142 Resp: 1775

Ion Ratio Lower Upper

142 100

141 78.7 67.8 101.8

115 37.4 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

