

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036553.D
 Acq On : 30 Mar 2021 00:18
 Operator : SY/AP
 Sample : M1759-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:44:20 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1524145	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3437349	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3025983	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2385029	9.89	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

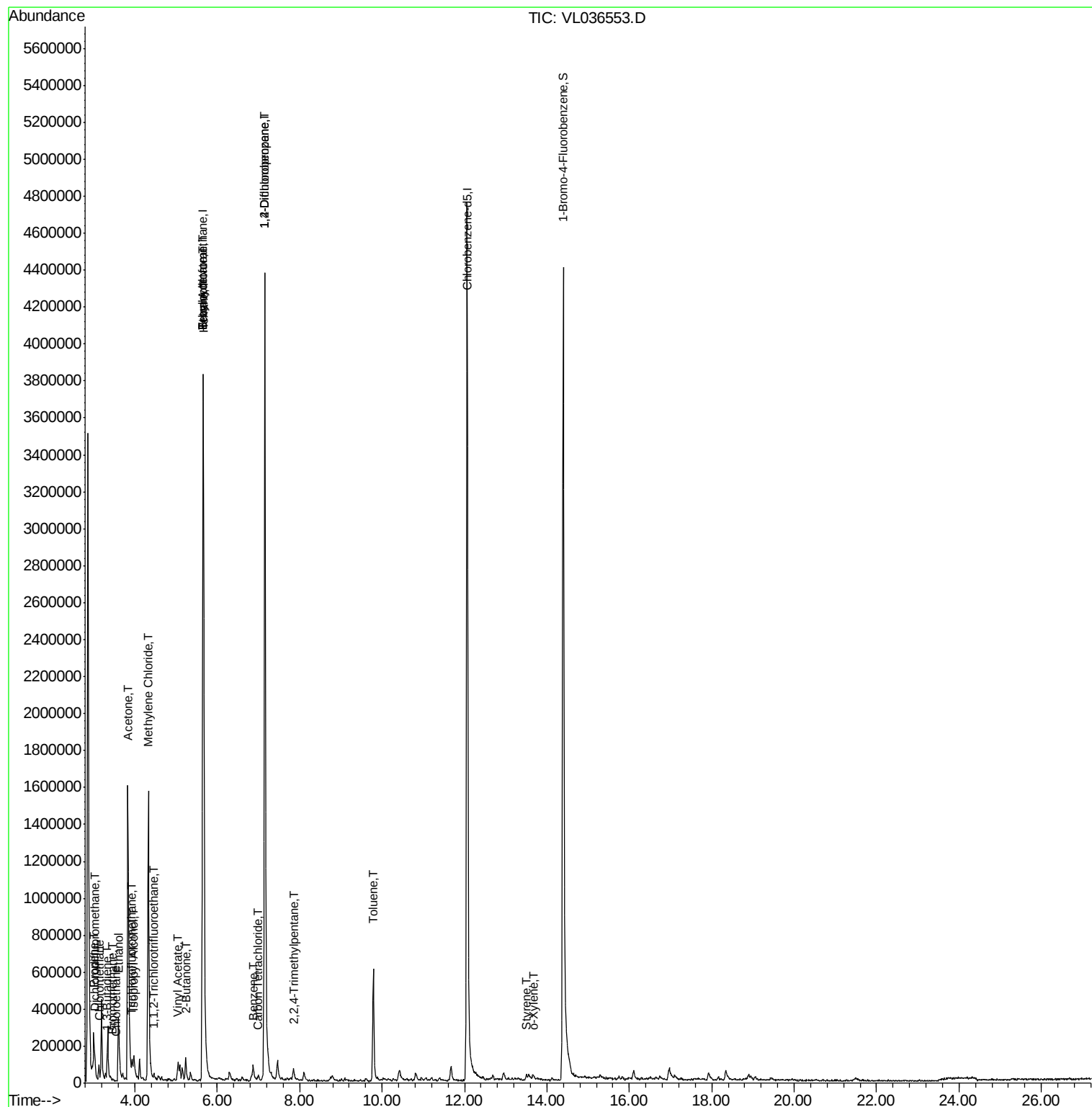
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	58434	0.235	ppbv 99
4) Chloromethane	3.12	50	80101	0.796	ppbv 96
6) Bromomethane	3.46	94	1500	0.026	ppbv # 62
7) Chloroethane	3.54	64	1353	0.038	ppbv # 68
9) Propene	3.00	41	68650	0.756	ppbv 85
11) Trichlorofluoromethane	3.93	101	53468	0.211	ppbv 90
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6060	0.037	ppbv # 11
13) Ethanol	3.60	45	379317	35.087	ppbv 95
15) Acetone	3.83	43	2137518	14.249	ppbv 99
16) 1,3-Butadiene	3.31	39	3671	0.035	ppbv # 42
19) Isopropyl Alcohol	3.97	45	141425	1.714	ppbv # 89
20) Methylene Chloride	4.32	84	591554	8.422	ppbv 96
23) Vinyl Acetate	5.05	43	121670	0.474	ppbv # 91
25) Ethyl Acetate	5.66	43	788023	2.210	ppbv # 79
26) Hexane	5.67	57	1046652	6.324	ppbv # 47
34) 2-Butanone	5.23	43	136900	0.816	ppbv # 90
35) Carbon Tetrachloride	6.99	117	8793	0.033	ppbv # 93
36) Benzene	6.87	78	31861	0.101	ppbv # 84
39) 1,2-Dichloropropane	7.15	63	949705	7.385	ppbv # 23
41) Tetrahydrofuran	5.66	42	457465	5.913	ppbv # 53
44) 2,2,4-Trimethylpentane	7.84	57	14168	0.025	ppbv # 1
53) Toluene	9.78	91	466592	1.382	ppbv 99
60) o-Xylene	13.67	91	8467	0.023	ppbv # 31
61) Styrene	13.50	104	8425	0.045	ppbv # 1

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

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QLast Update : Thu Mar 25 09:42:40 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

ClientSampleId :

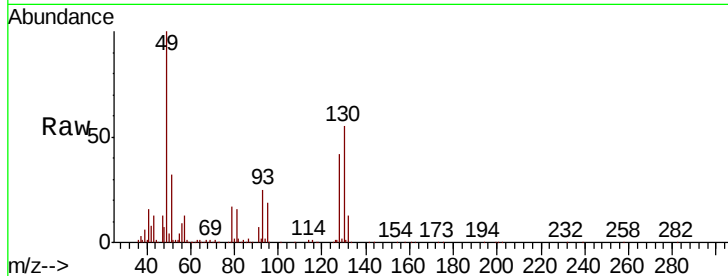
Tot Ion: 49 Resp: 1524145

Ion Ratio Lower Upper

49 100

128 44.4 23.5 70.6

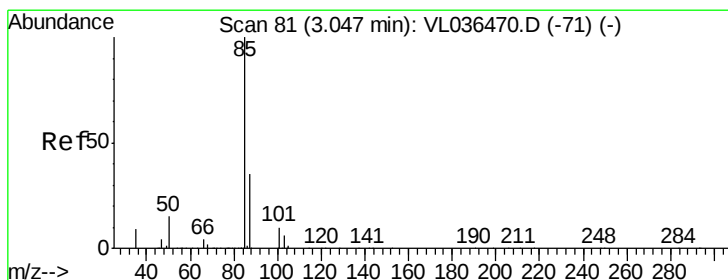
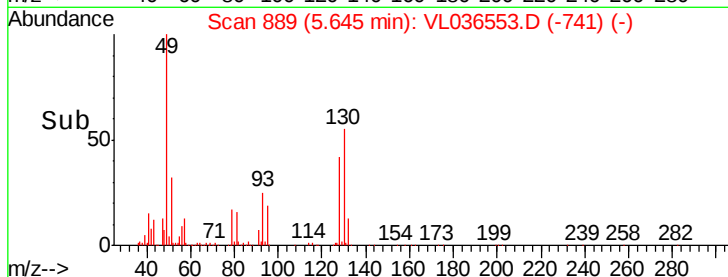
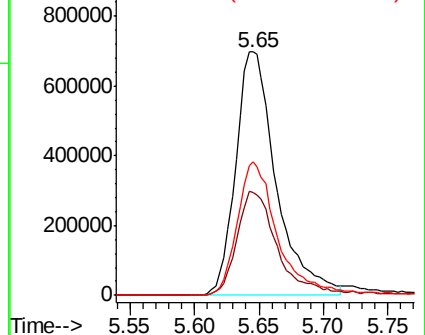
130 56.1 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.235 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036553.D

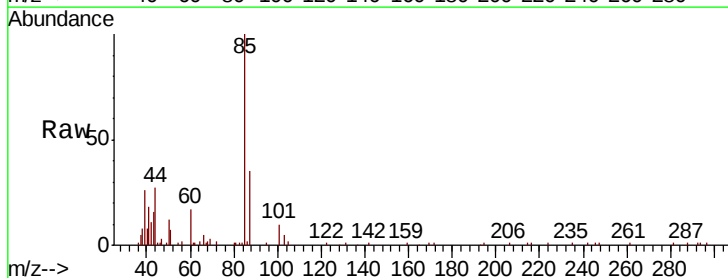
Acq: 30 Mar 2021 00:18

Tgt Ion: 85 Resp: 58434

Ion Ratio Lower Upper

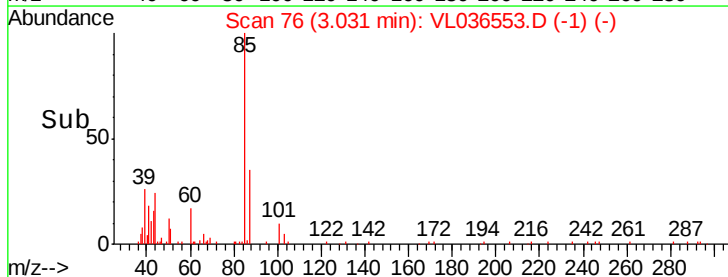
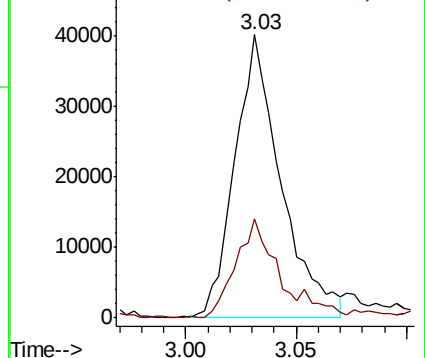
85 100

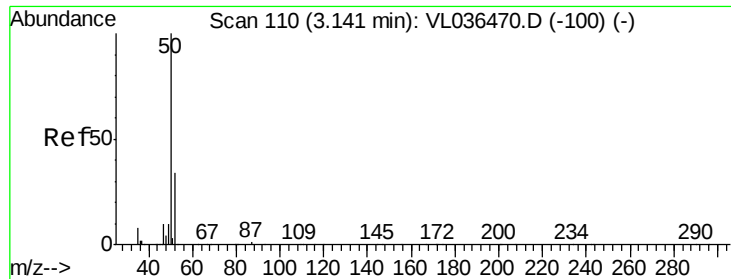
87 34.3 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.796 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

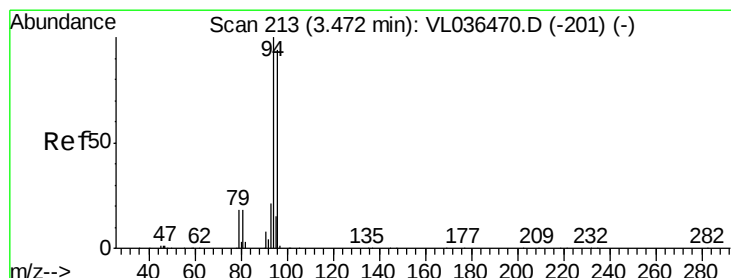
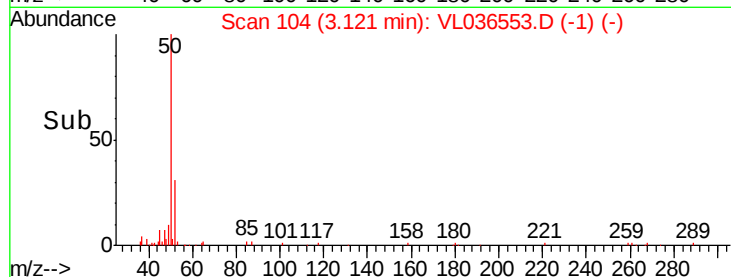
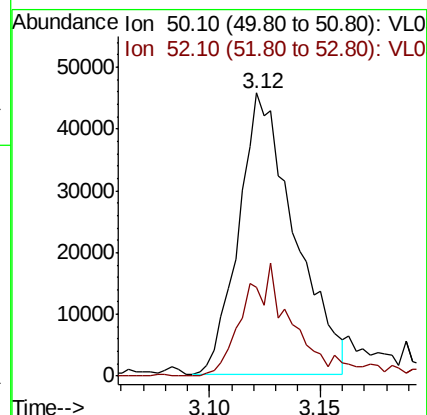
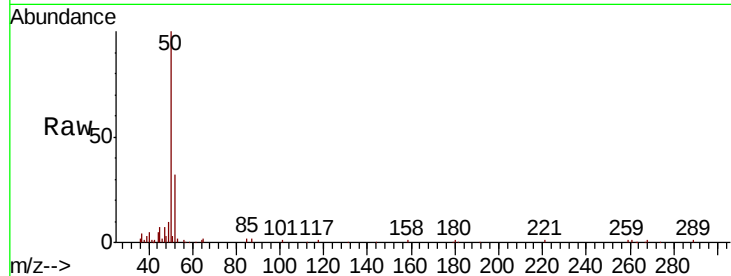
ClientSampled :

Tot Ion: 50 Resp: 80101

Ion Ratio Lower Upper

50 100

52 31.8 27.0 40.6



#6

Bromomethane

Concen: 0.026 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.01 min

Lab File: VL036553.D

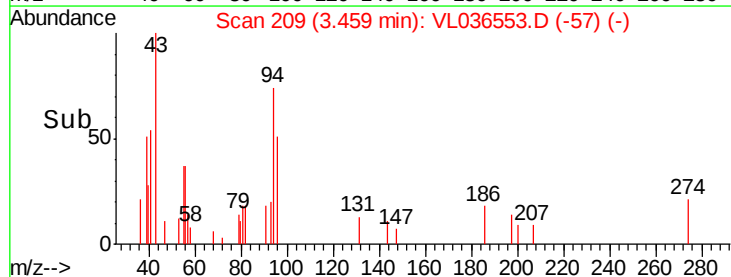
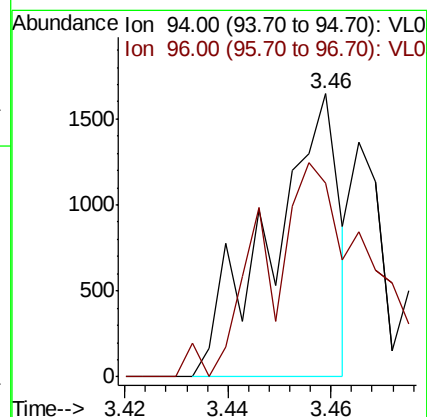
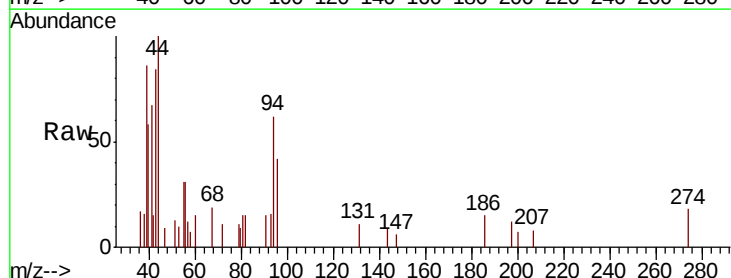
Acq: 30 Mar 2021 00:18

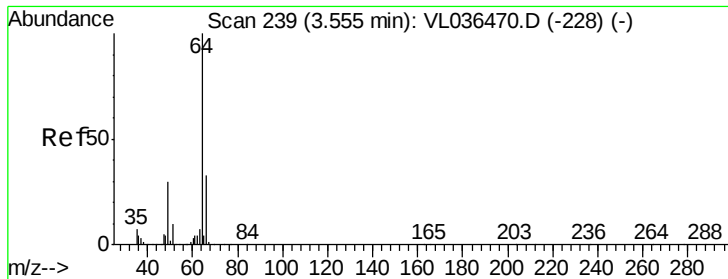
Tgt Ion: 94 Resp: 1500

Ion Ratio Lower Upper

94 100

96 56.6 74.9 112.3#





#7

Chloroethane

Concen: 0.038 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.02 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

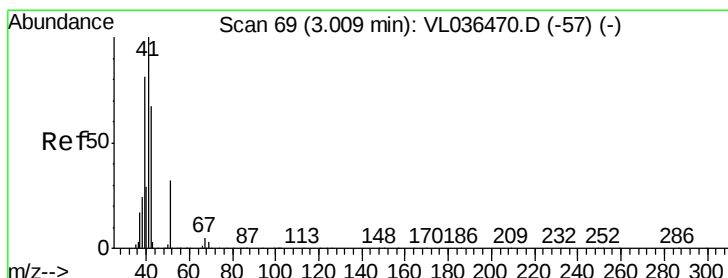
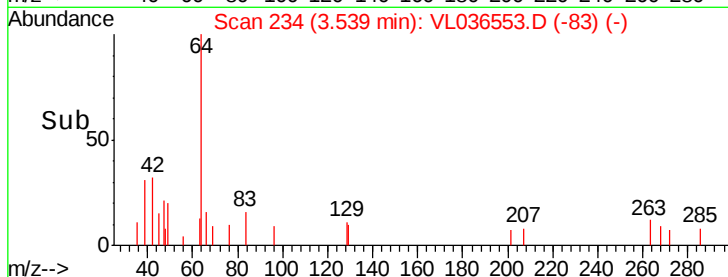
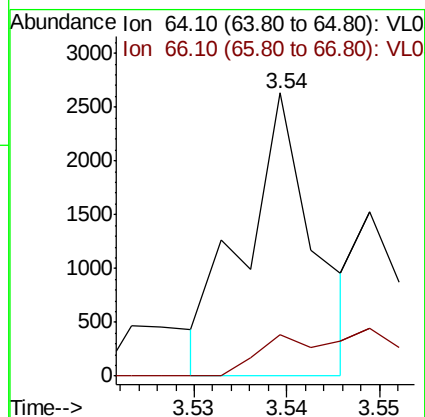
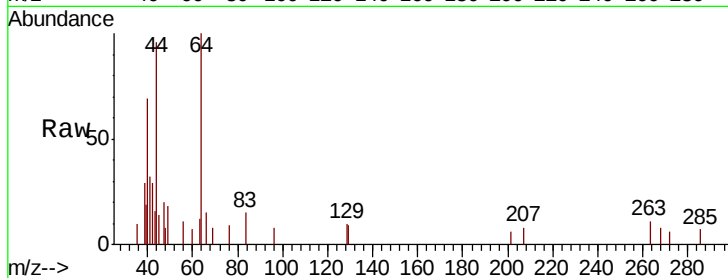
ClientSampleId :

Tot Ion: 64 Resp: 1353

Ion Ratio Lower Upper

64 100

66 14.7 26.2 39.2#



#9

Propene

Concen: 0.756 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036553.D

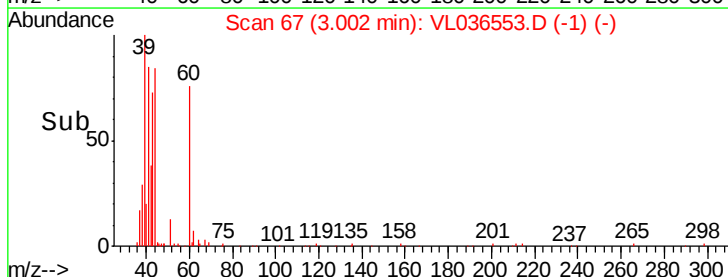
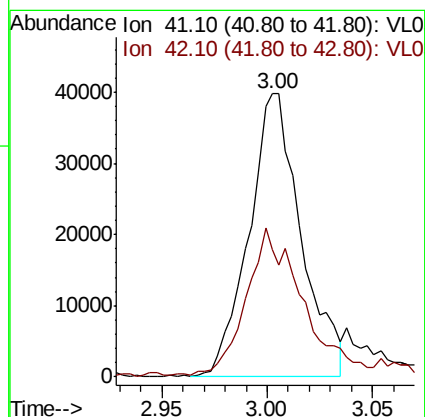
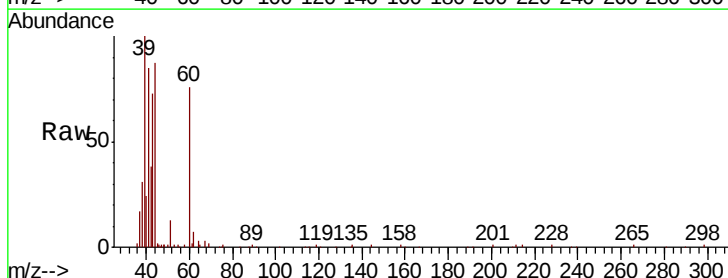
Acq: 30 Mar 2021 00:18

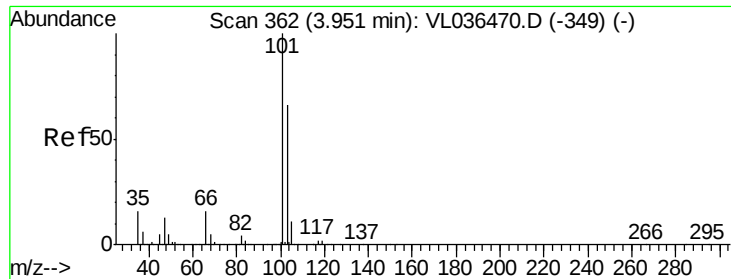
Tgt Ion: 41 Resp: 68650

Ion Ratio Lower Upper

41 100

42 59.2 57.0 85.4

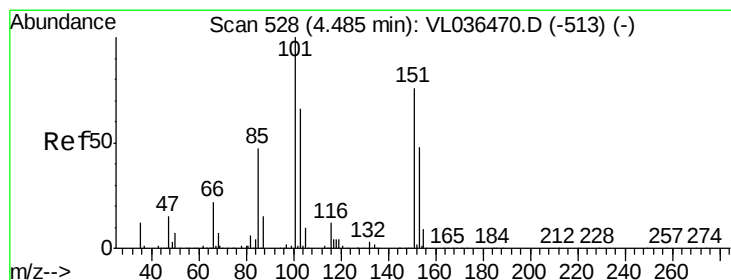
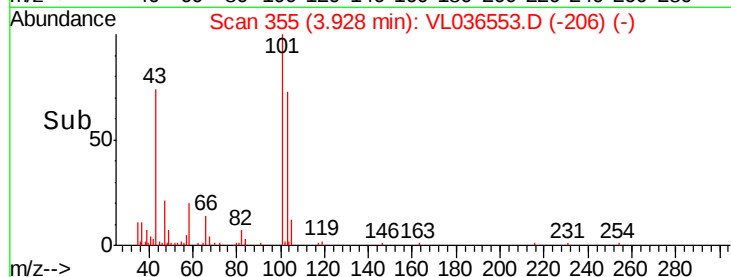
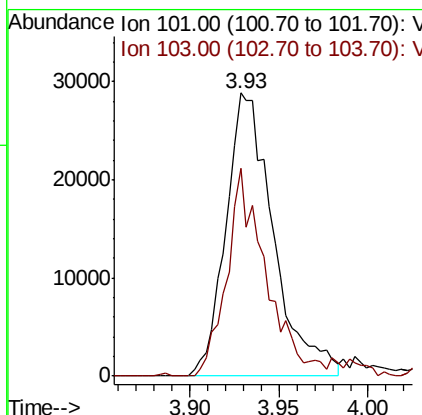
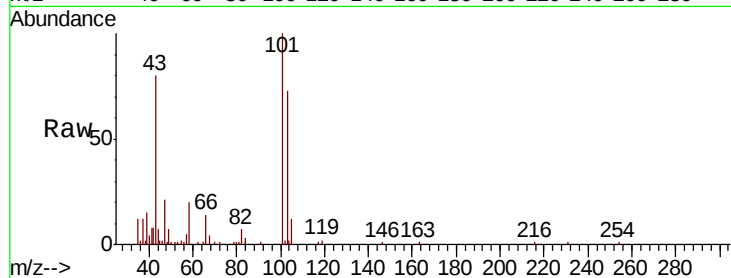




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 3.93 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

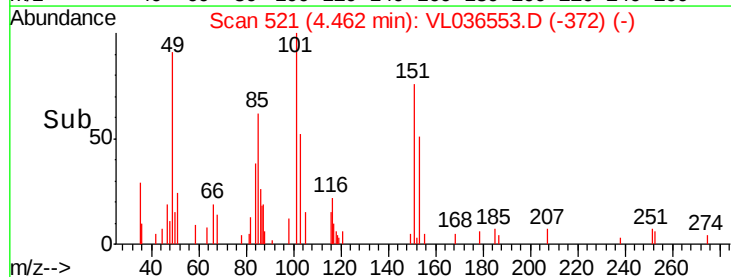
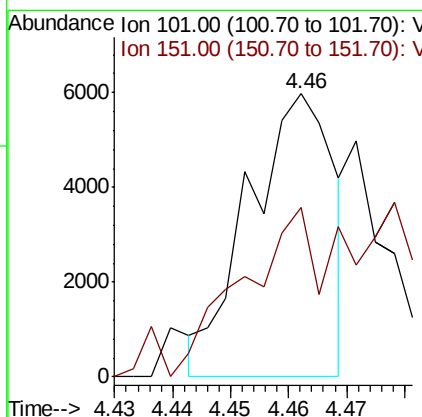
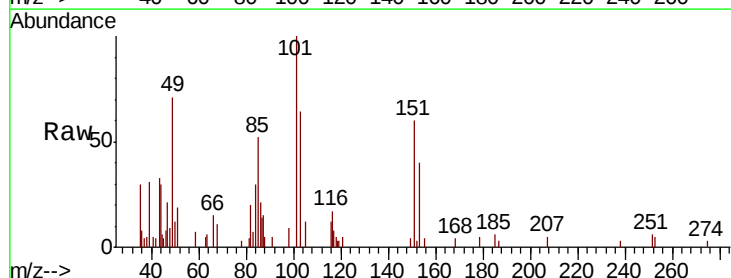
Instrument :
 MSVOA_L
 ClientSampleId :

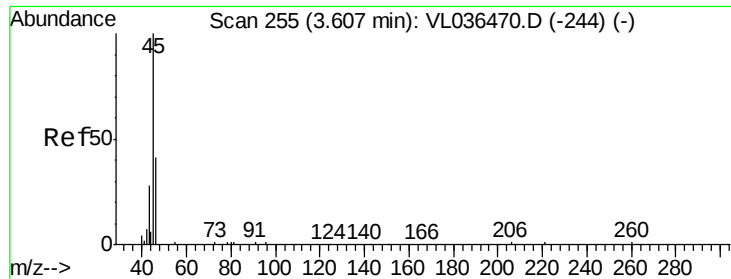
Tot Ion:101 Resp: 53468
 Ion Ratio Lower Upper
 101 100
 103 73.4 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.02 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Tgt Ion:101 Resp: 6060
 Ion Ratio Lower Upper
 101 100
 151 0.0 60.9 91.3#





#13

Ethanol

Concen: 35.087 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

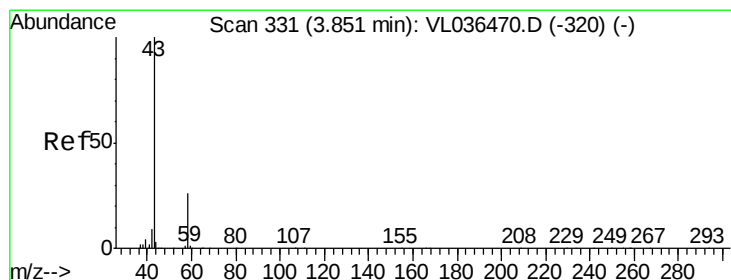
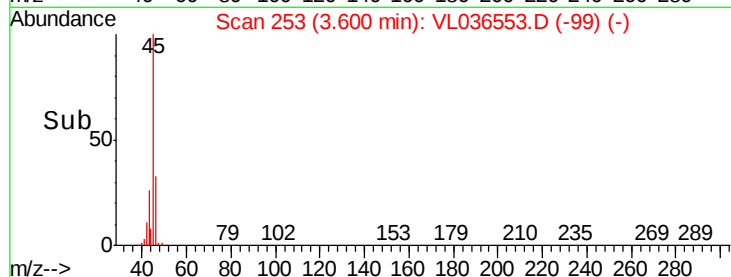
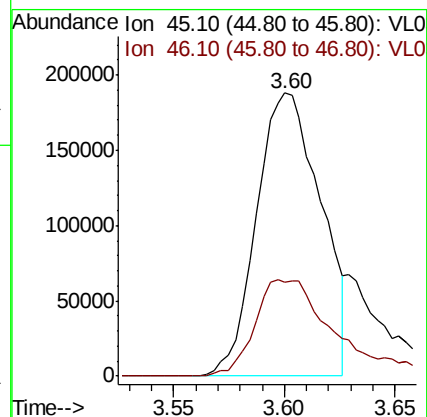
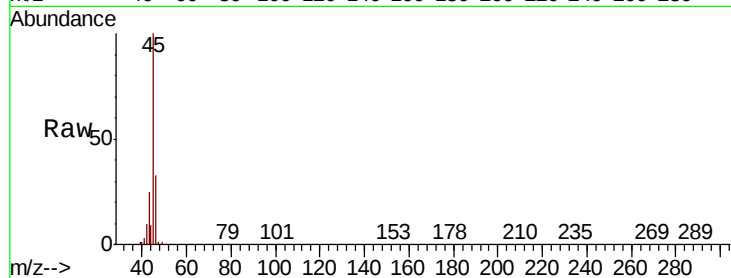
ClientSampleId :

Tot Ion: 45 Resp: 379317

Ion Ratio Lower Upper

45 100

46 44.7 16.6 66.2



#15

Acetone

Concen: 14.249 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL036553.D

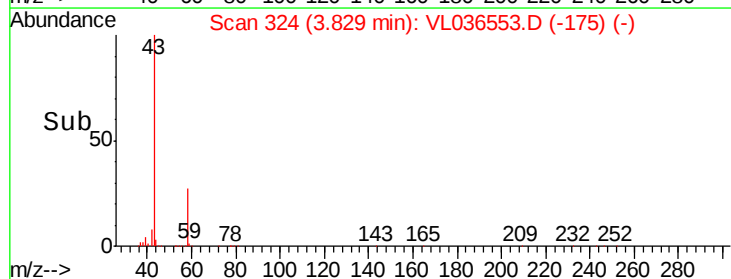
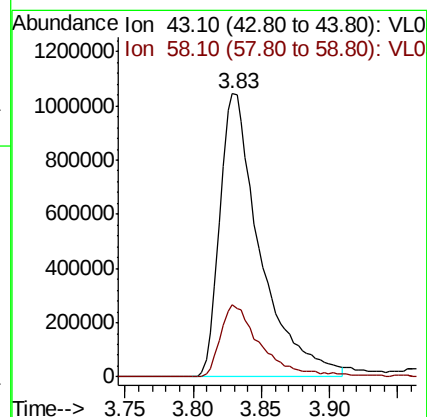
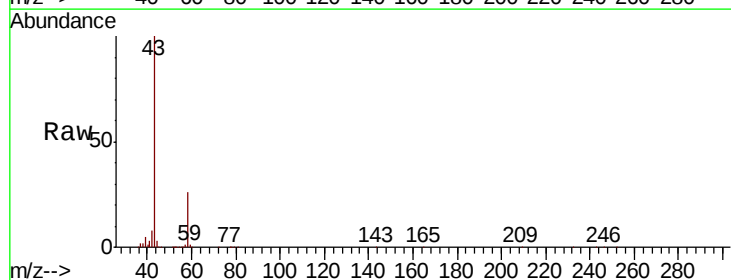
Acq: 30 Mar 2021 00:18

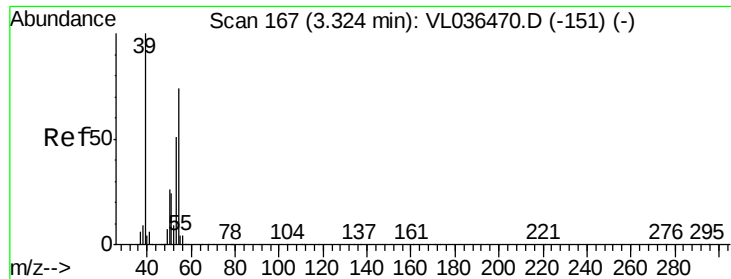
Tgt Ion: 43 Resp: 2137518

Ion Ratio Lower Upper

43 100

58 26.2 21.2 31.8

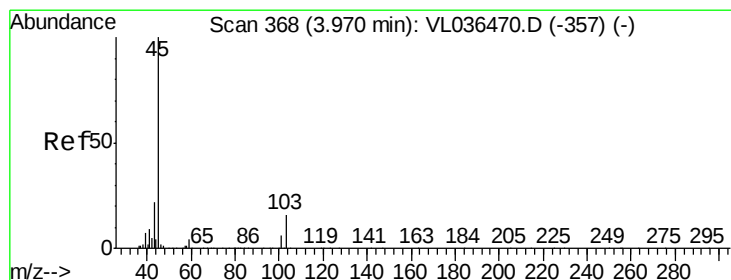
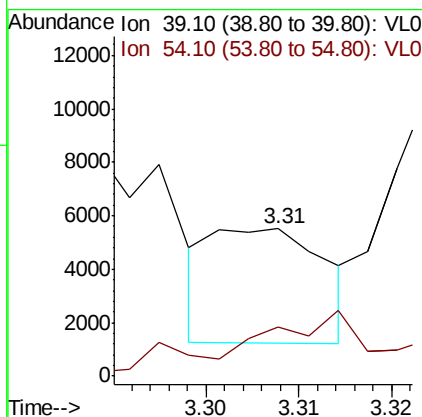
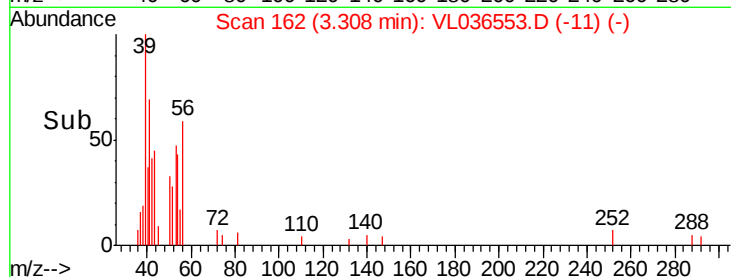
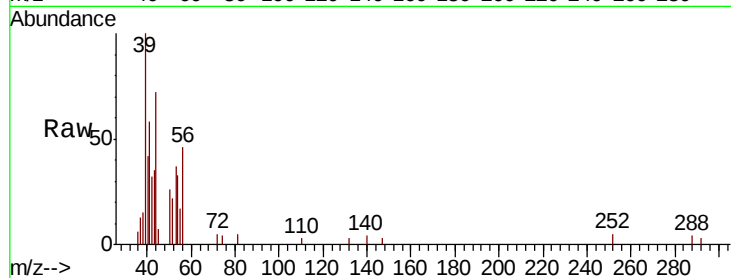




#16
 1,3-Butadiene
 Concen: 0.035 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

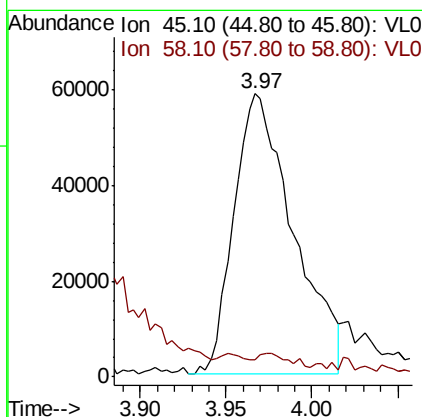
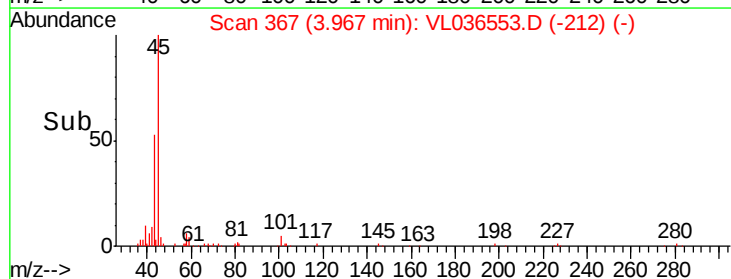
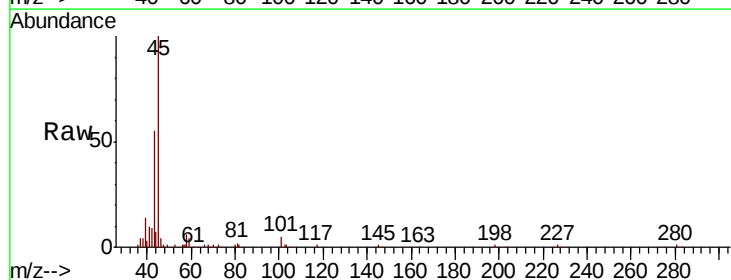
Instrument :
 MSVOA_L
 ClientSampled :

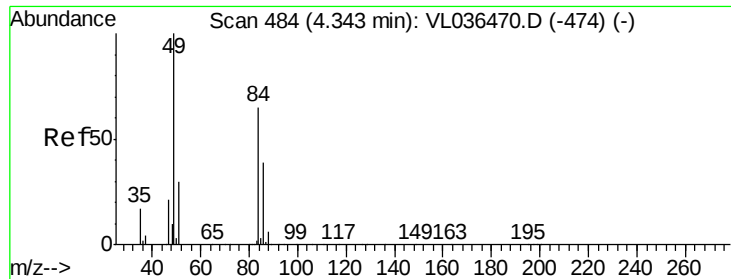
Tot Ion: 39 Resp: 3671
 Ion Ratio Lower Upper
 39 100
 54 122.5 58.8 88.2#



#19
 Isopropyl Alcohol
 Concen: 1.714 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Tgt Ion: 45 Resp: 141425
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.9 4.3#

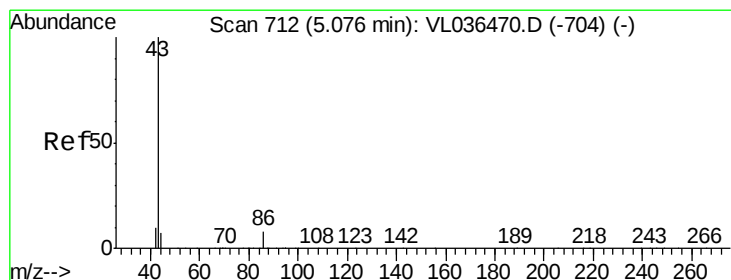
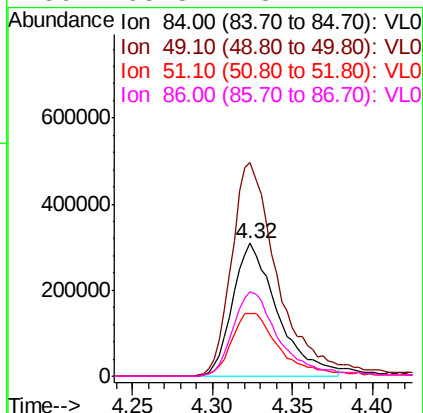
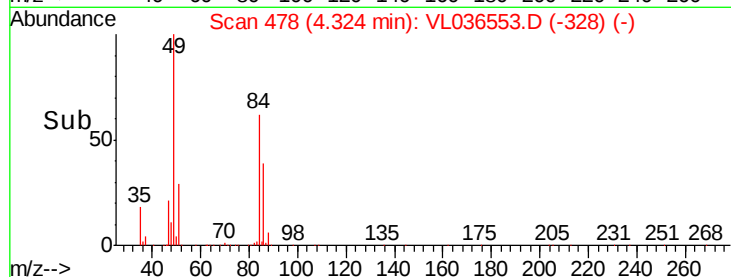
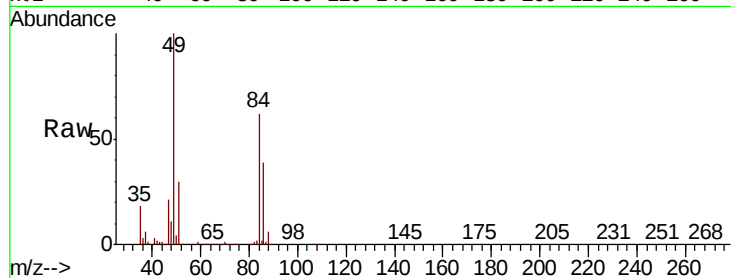




#20
Methvlene Chloride
Concen: 8.422 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

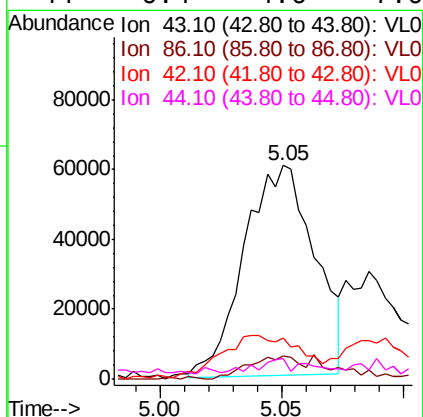
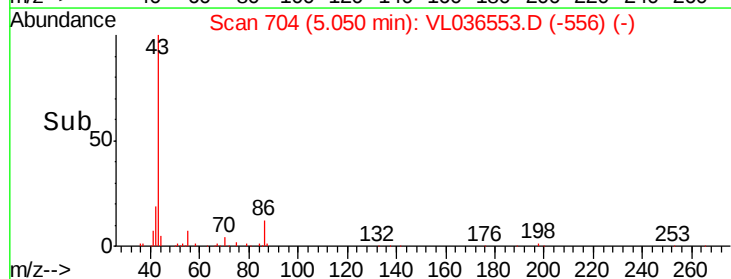
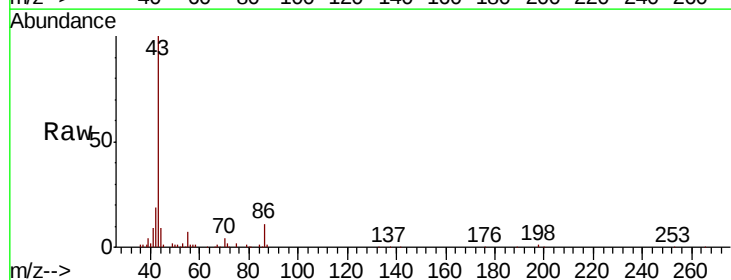
Instrument :
MSVOA_L
ClientSampleId :

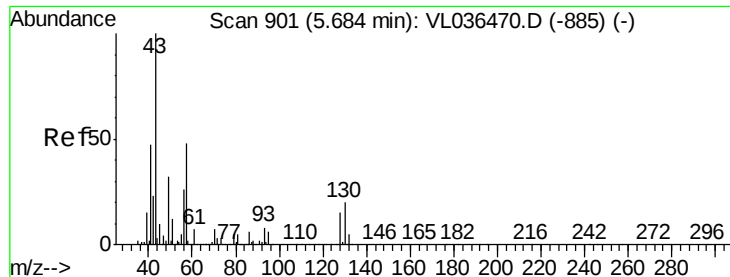
Tot Ion:	84	Resp:	591554
Ion	Ratio	Lower	Upper
84	100		
49	160.5	122.9	184.3
51	47.3	36.9	55.3
86	63.3	48.2	72.4



#23
Vinyl Acetate
Concen: 0.474 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.03 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

Tgt Ion:	43	Resp:	121670
Ion	Ratio	Lower	Upper
43	100		
86	10.1	5.4	8.0#
42	15.6	8.5	12.7#
44	6.4	4.6	7.0

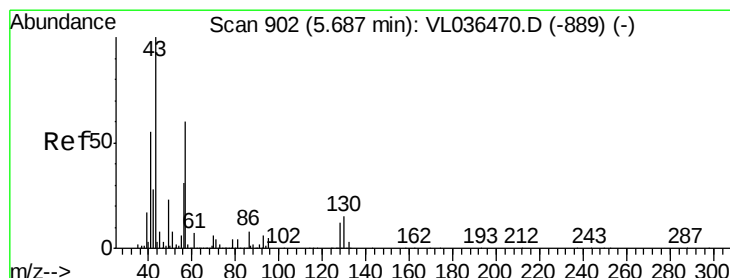
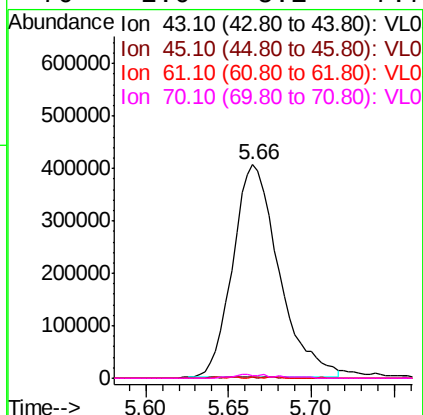
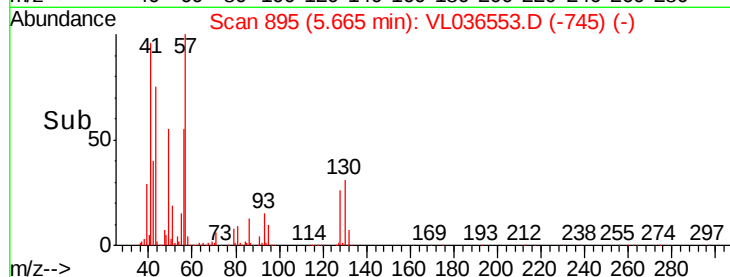
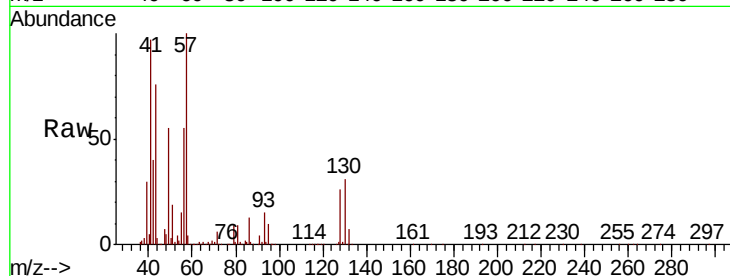




#25
Ethyl Acetate
Concen: 2.210 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

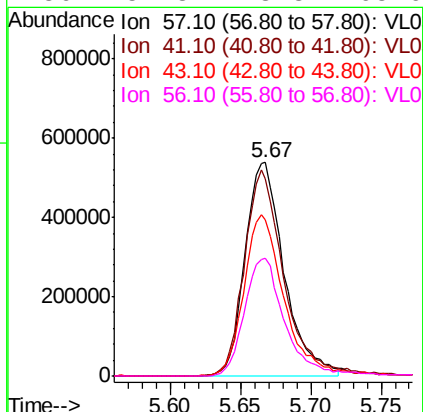
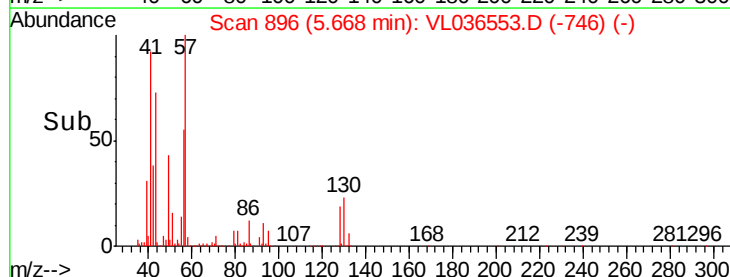
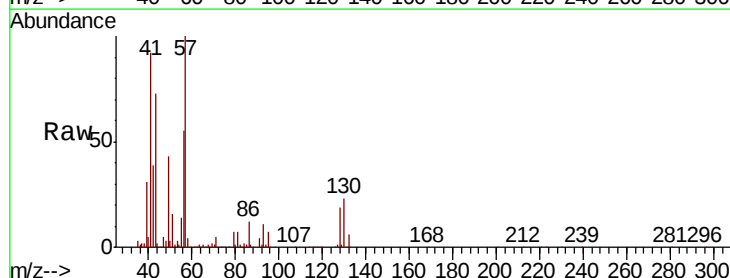
Instrument :
MSVOA_L
ClientSampleId :

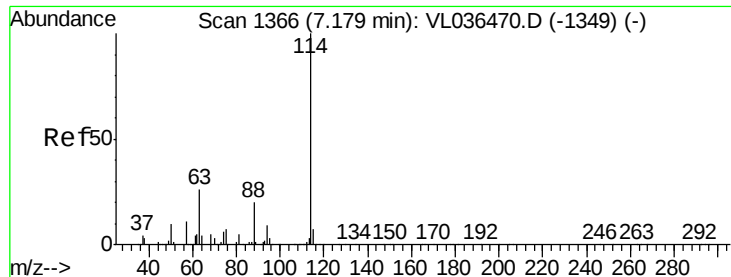
Tot Ion:	43	Resp:	788023
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.9	11.9#
61	0.6	7.4	11.2#
70	2.0	5.1	7.7#



#26
Hexane
Concen: 6.324 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

Tgt Ion:	57	Resp:	1046652
Ion	Ratio	Lower	Upper
57	100		
41	99.3	77.2	115.8
43	78.7	173.8	260.6#
56	57.8	43.8	65.6

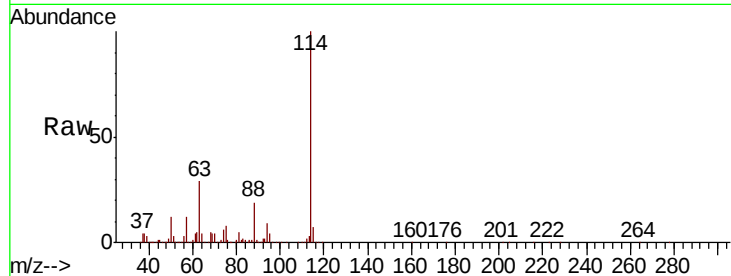




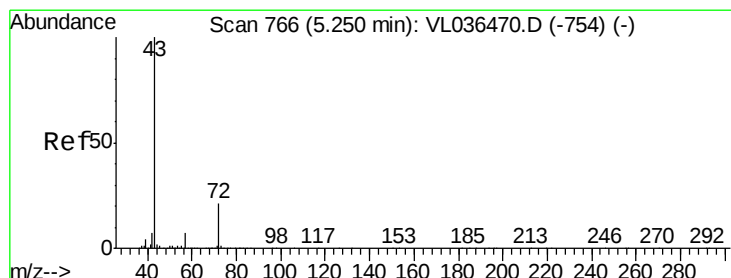
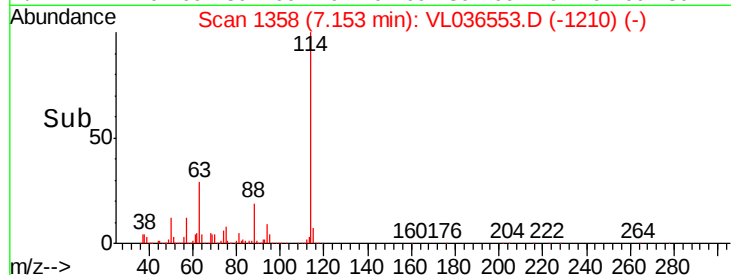
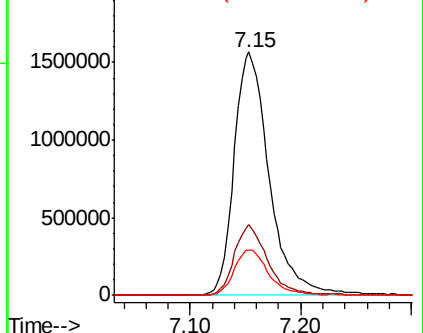
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.03 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3437349
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.4 33.6
 88 18.9 15.4 23.0

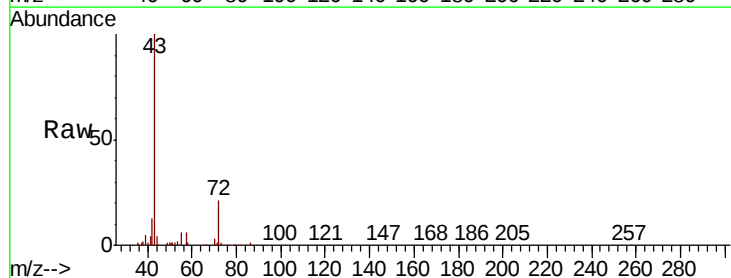


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

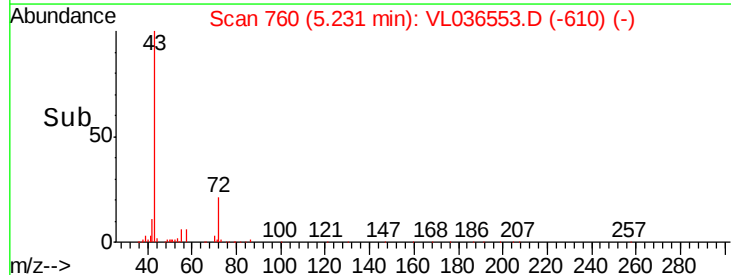
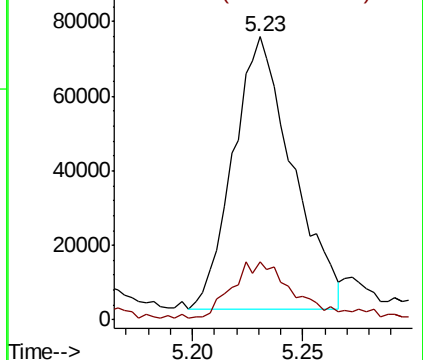


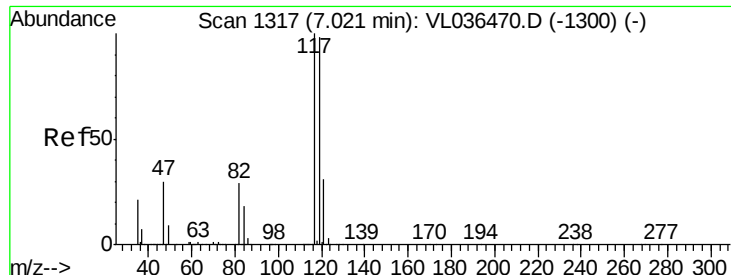
#34
 2-Butanone
 Concen: 0.816 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Tgt Ion: 43 Resp: 136900
 Ion Ratio Lower Upper
 43 100
 72 26.1 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.033 ppbv

RT: 6.99 min Scan# 1308

Delta R.T. -0.03 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

ClientSampleId :

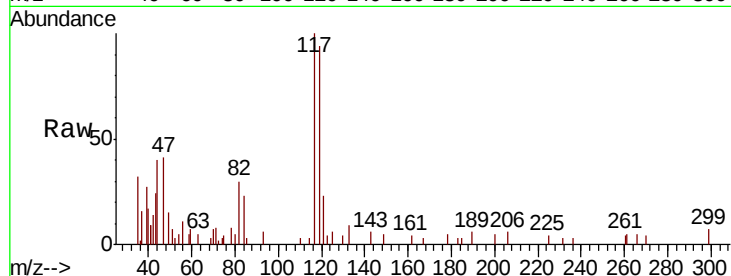
Tot Ion:117 Resp: 8793

Ion Ratio Lower Upper

117 100

119 93.5 78.2 117.2

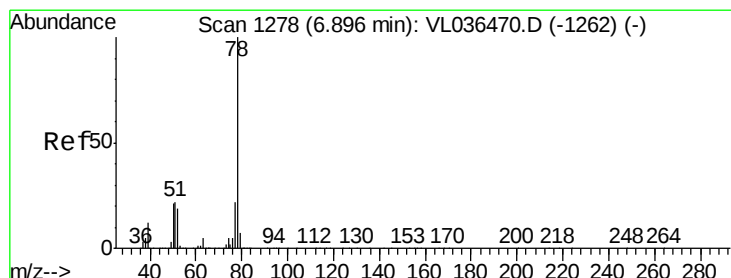
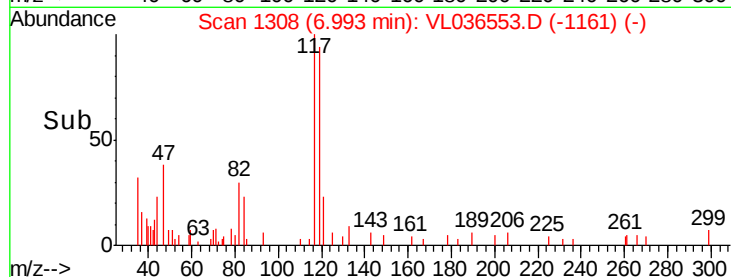
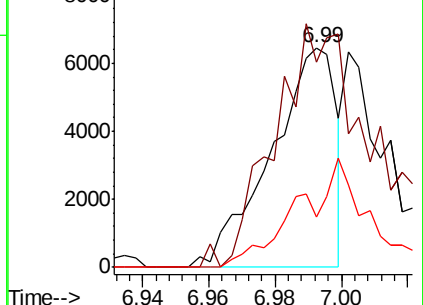
121 23.0 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.101 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

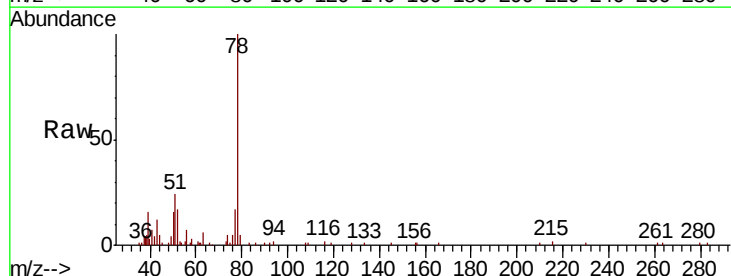
Tgt Ion: 78 Resp: 31861

Ion Ratio Lower Upper

78 100

77 13.2 18.0 27.0#

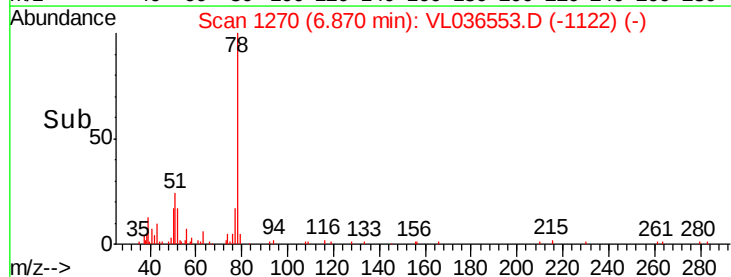
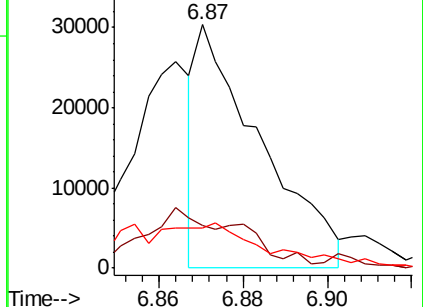
50 14.7 16.5 24.7#

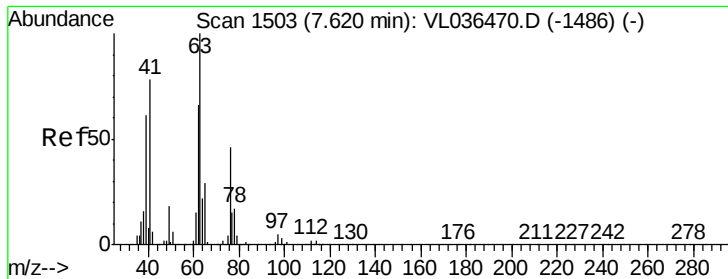


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

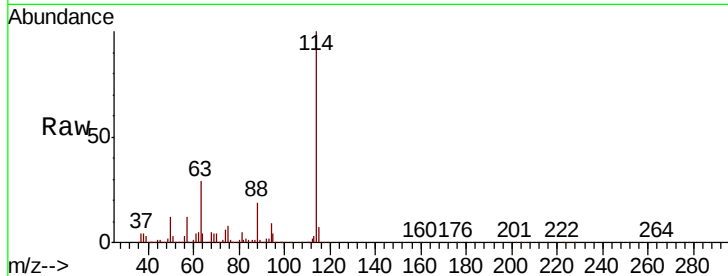




#39
 1,2-Dichloropropane
 Concen: 7.385 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.47 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	16.7	52.8	79.2#

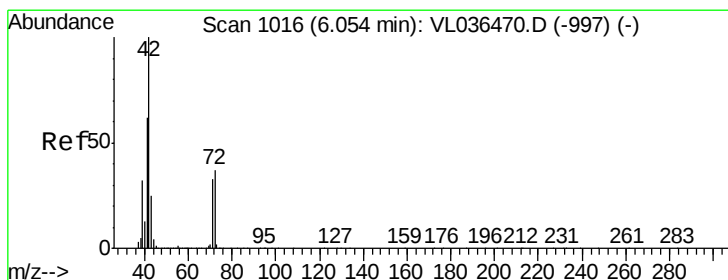
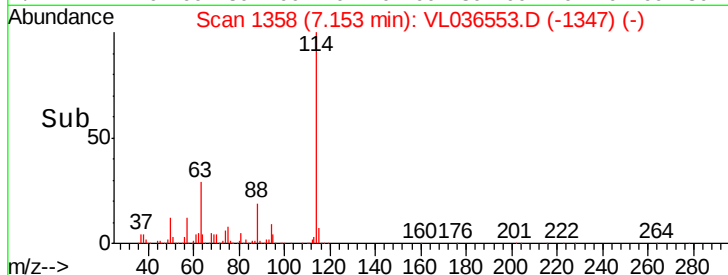
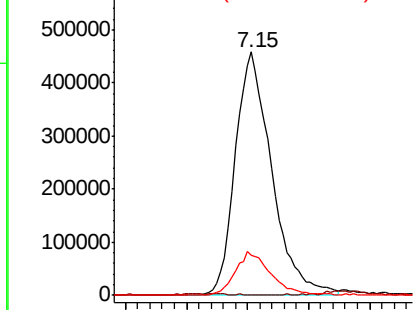


Abundance

Ion 63.10 (62.80 to 63.80): VL0

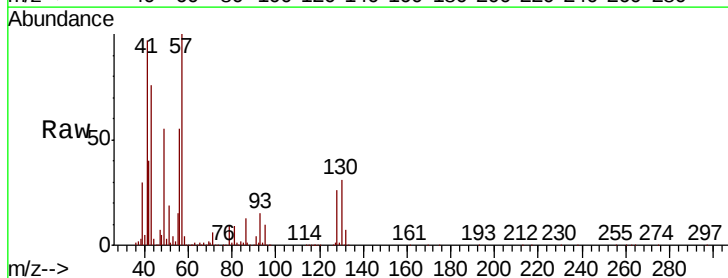
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41
 Tetrahydrofuran
 Concen: 5.913 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.39 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	27.6	41.4#
71	13.1	27.0	40.4#

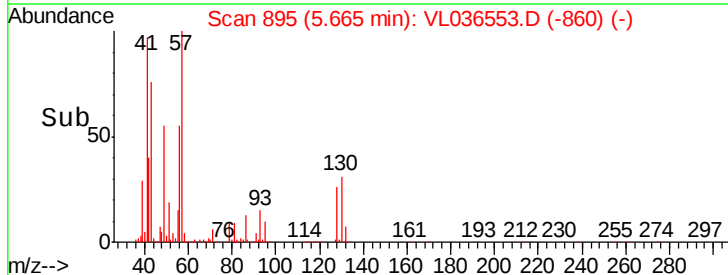
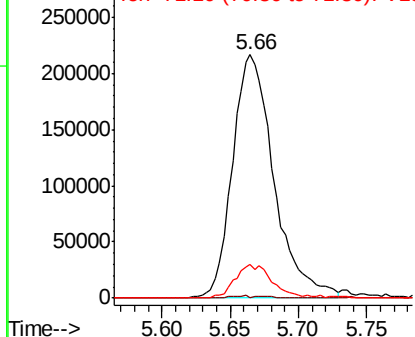


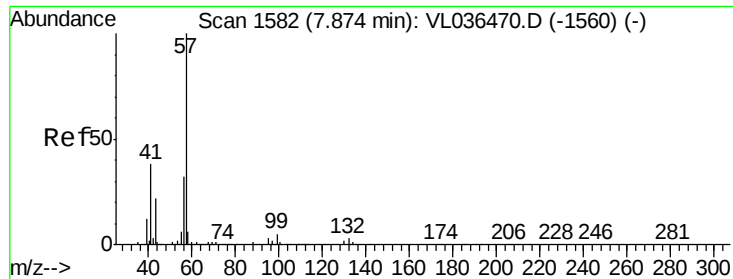
Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

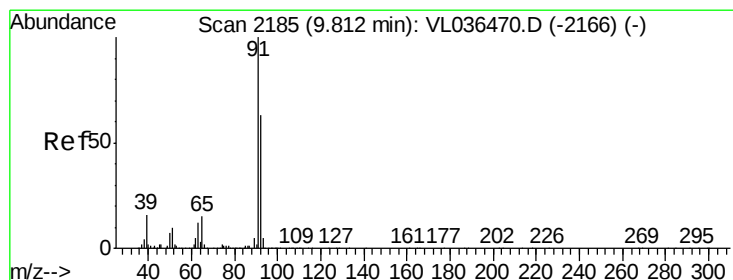
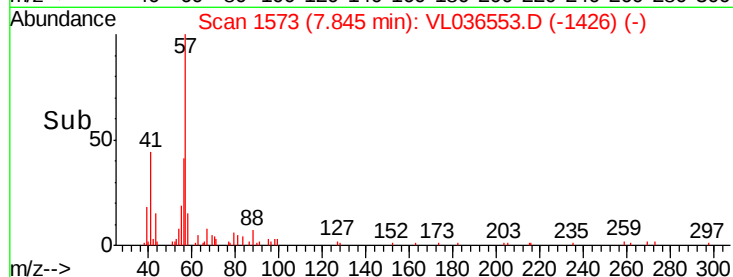
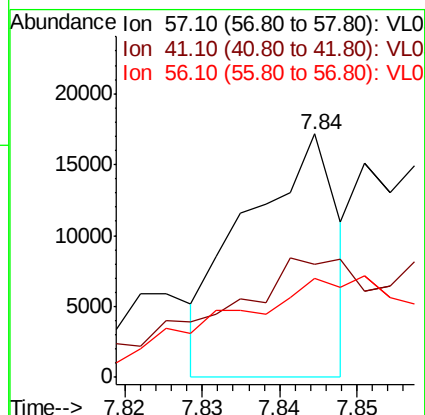
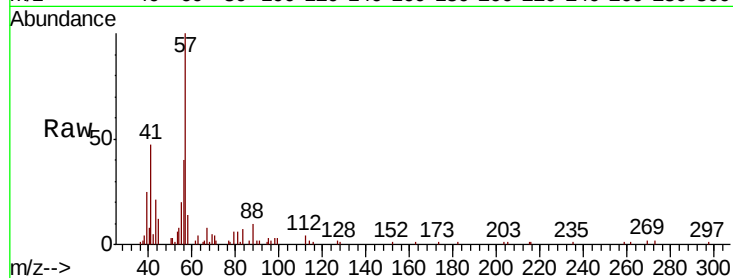




#44
 2,2,4-Trimethylpentane
 Concen: 0.025 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.03 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

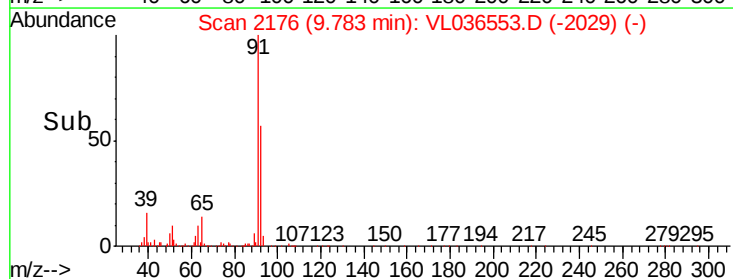
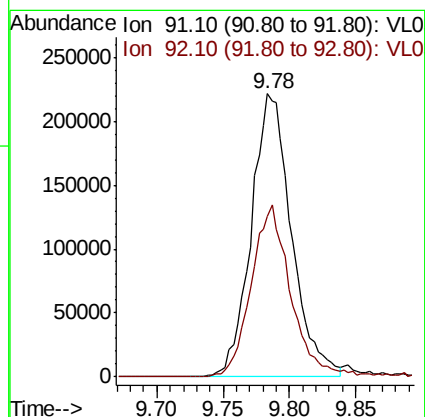
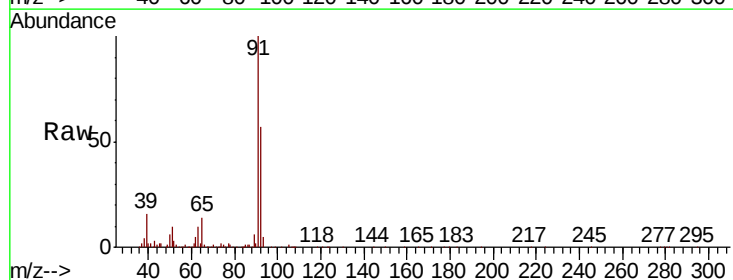
Instrument :
 MSVOA_L
 ClientSampleID :

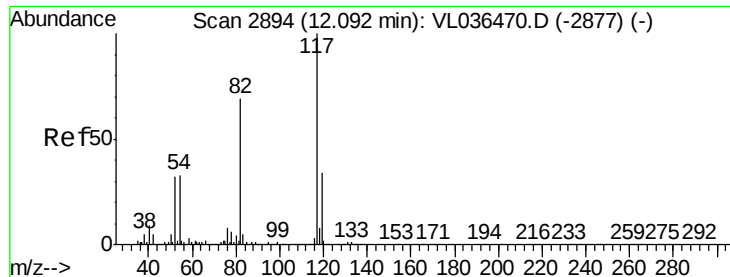
Tot Ion: 57 Resp: 14168
 Ion Ratio Lower Upper
 57 100
 41 170.3 28.8 43.2#
 56 0.0 26.1 39.1#



#53
 Toluene
 Concen: 1.382 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: VL036553.D
 Acq: 30 Mar 2021 00:18

Tgt Ion: 91 Resp: 466592
 Ion Ratio Lower Upper
 91 100
 92 60.4 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL036553.D

Acq: 30 Mar 2021 00:18

Instrument :

MSVOA_L

ClientSampleId :

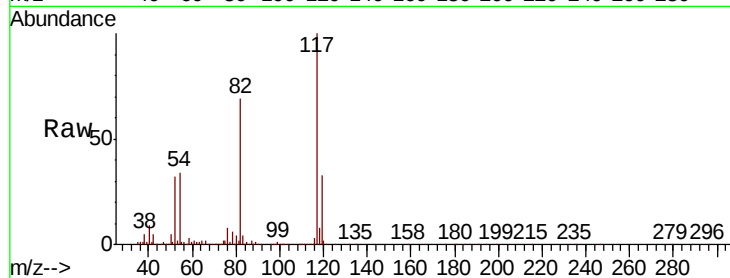
Tot Ion:117 Resp: 3025983

Ion Ratio Lower Upper

117 100

82 73.3 57.4 86.0

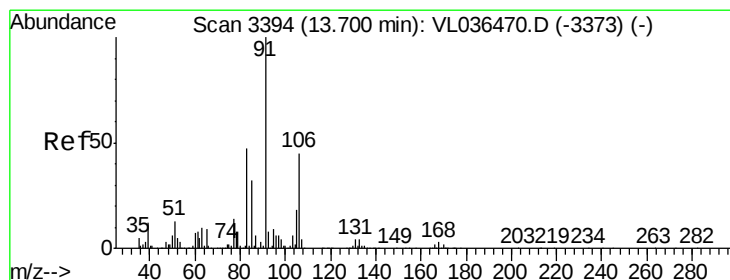
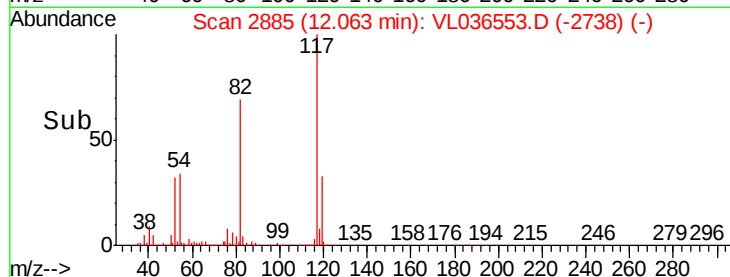
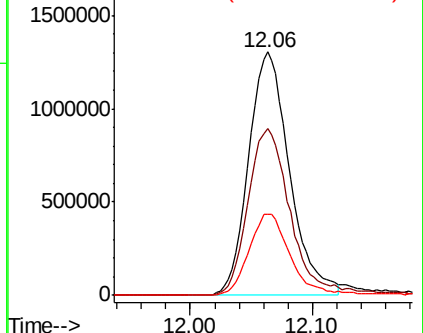
119 34.7 47.4 71.0#



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



#60

o-Xylene

Concen: 0.023 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.03 min

Lab File: VL036553.D

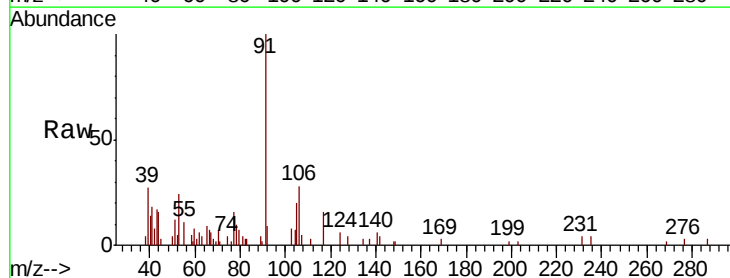
Acq: 30 Mar 2021 00:18

Tgt Ion: 91 Resp: 8467

Ion Ratio Lower Upper

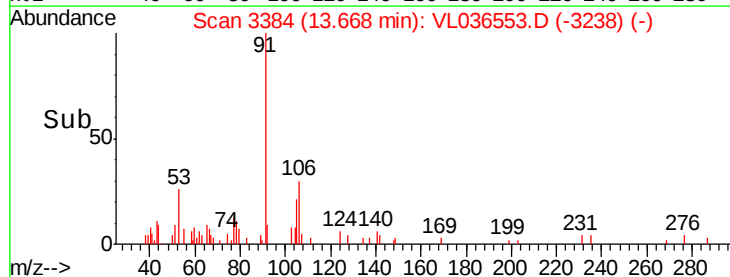
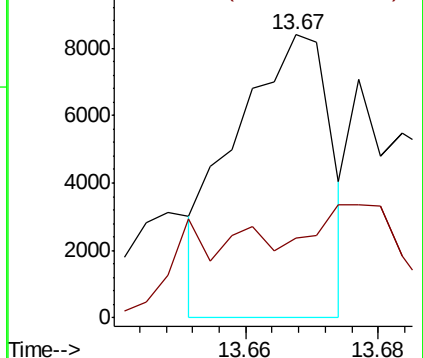
91 100

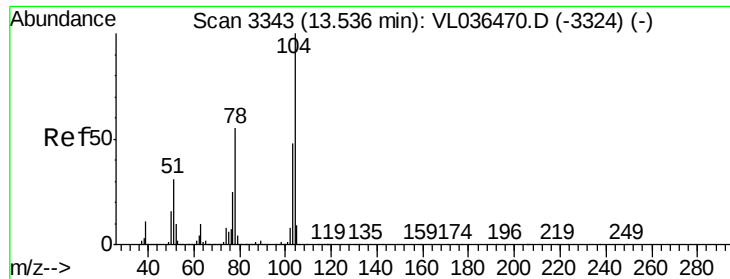
106 0.0 22.3 66.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

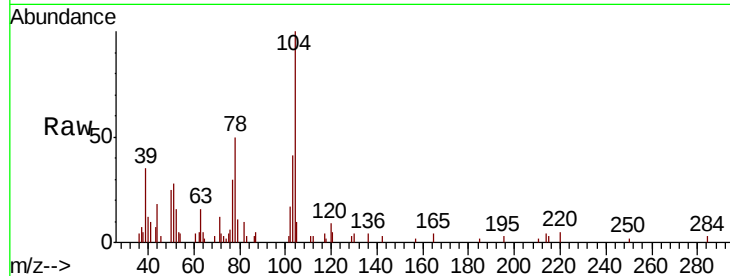




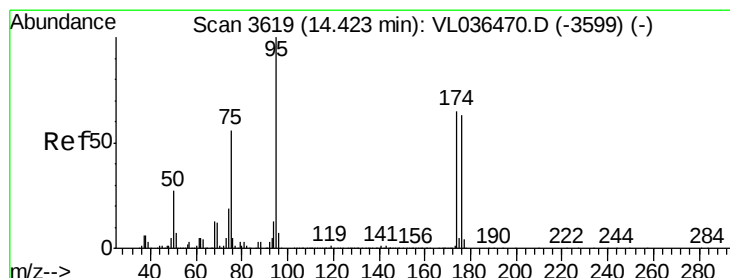
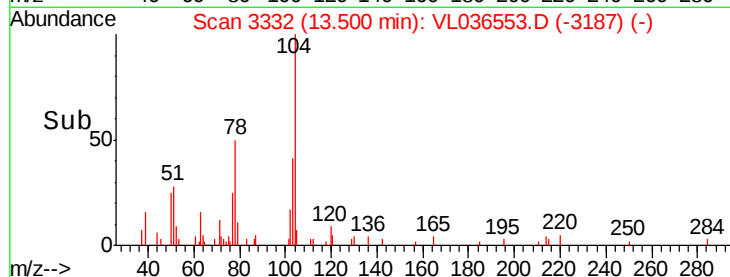
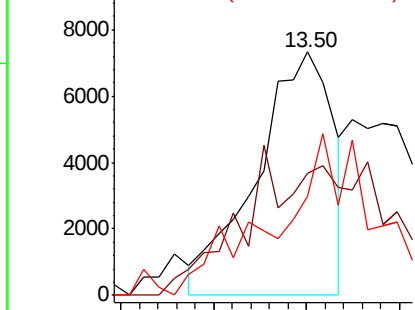
#61
Stvrene
Concen: 0.045 ppbv
RT: 13.50 min Scan# 3332
Delta R.T. -0.04 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:104 Resp: 8425
Ion Ratio Lower Upper
104 100
78 141.2 43.8 65.8#
103 102.9 38.3 57.5#

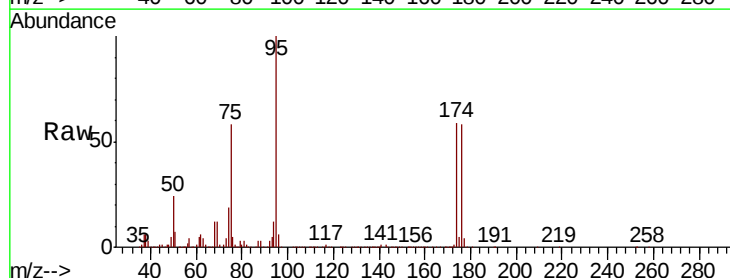


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.889 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.03 min
Lab File: VL036553.D
Acq: 30 Mar 2021 00:18

Tgt Ion: 95 Resp: 2385029
Ion Ratio Lower Upper
95 100
174 65.9 51.0 76.6
175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

