

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042159.D
 Acq On : 17 Mar 2025 15:53
 Operator : SY/MD
 Sample : Q1586-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-1

Quant Time: Mar 18 01:26:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	161407	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	390134	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	319342	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	249363	10.150	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%

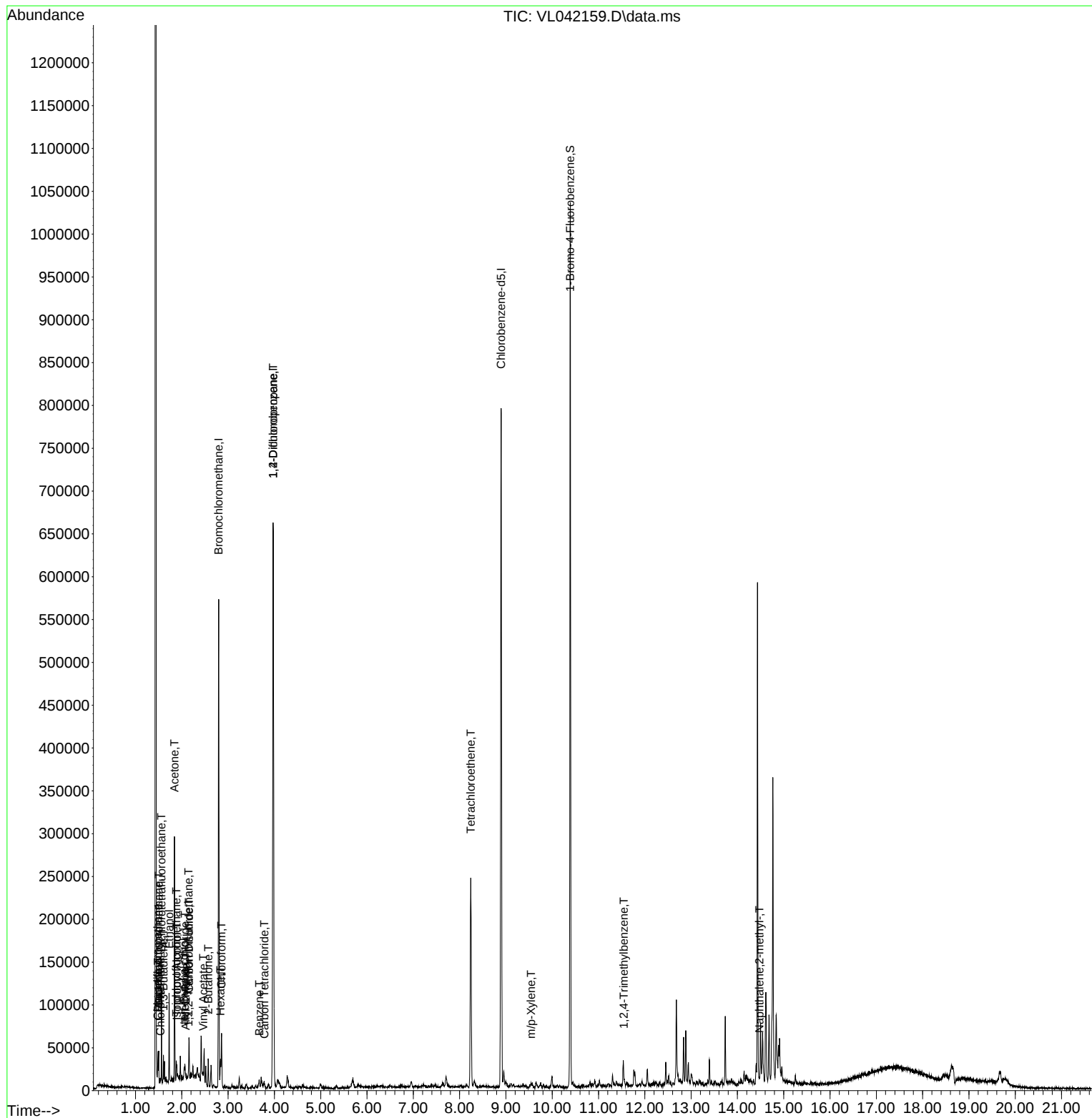
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	9053	0.539	ppbv	99
3) Chlorodifluoromethane	1.479	51	7553	0.322	ppbv	98
4) Chloromethane	1.538	50	534	0.086	ppbv #	83
8) Dichlorotetrafluoroethane	1.560	85	417	0.030	ppbv	88
9) Propene	1.486	41	4314	0.451	ppbv	96
11) Trichlorofluoromethane	1.881	101	5286	0.314	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.143	101	725	0.054	ppbv #	46
13) Ethanol	1.725	45	34953	57.615	ppbv	90
15) Acetone	1.842	43	121151	8.499	ppbv	98
16) 1,3-Butadiene	1.602	39	3760	0.567	ppbv #	27
17) tert-Butyl alcohol	2.049	59	4187	0.235	ppbv #	82
19) Isopropyl Alcohol	1.894	45	5923	0.723	ppbv #	1
20) Methylene Chloride	2.068	84	2702	0.501	ppbv #	78
21) Allyl Chloride	2.081	41	651	0.063	ppbv #	36
23) Vinyl Acetate	2.463	43	2325	0.232	ppbv #	88
26) Hexane	2.839	57	6791	0.294	ppbv #	35
27) Carbon Disulfide	2.156	76	23496	1.503	ppbv #	1
29) Chloroform	2.858	83	24129	0.777	ppbv	97
34) 2-Butanone	2.570	43	20731	0.682	ppbv	96
35) Carbon Tetrachloride	3.780	117	1068	0.040	ppbv #	54
36) Benzene	3.674	78	4592	0.112	ppbv #	94
39) 1,2-Dichloropropane	3.971	63	99455	6.416	ppbv #	23
52) Tetrachloroethene	8.241	164	43646	3.122	ppbv	96
59) m/p-Xylene	9.542	91	1837	0.039	ppbv #	100
74) 1,2,4-Trimethylbenzene	11.545	105	1946	0.035	ppbv #	67
80) Naphthalene,2-methyl-	14.474	142	503	0.048	ppbv #	91

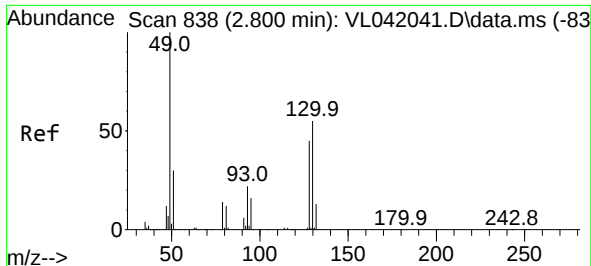
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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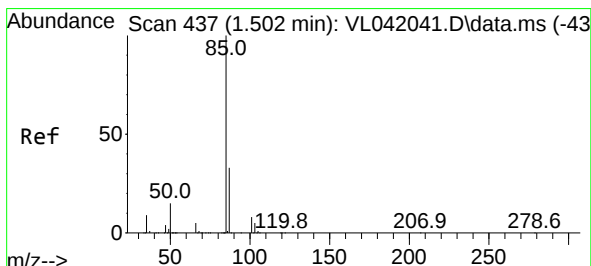
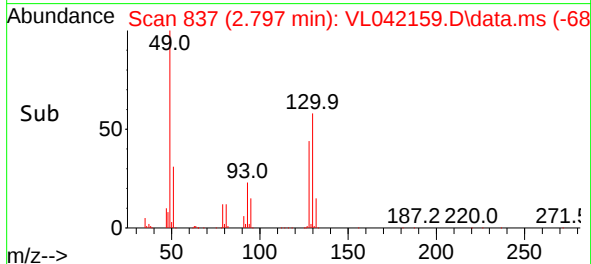
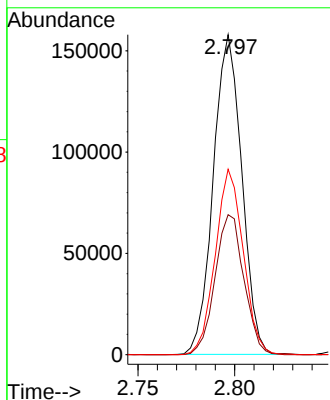
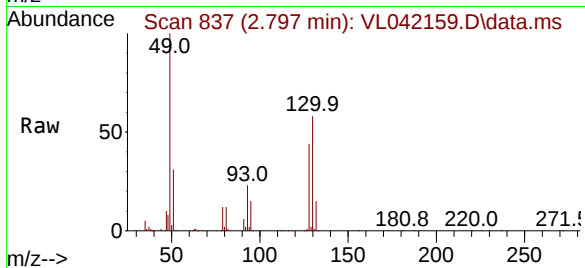




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

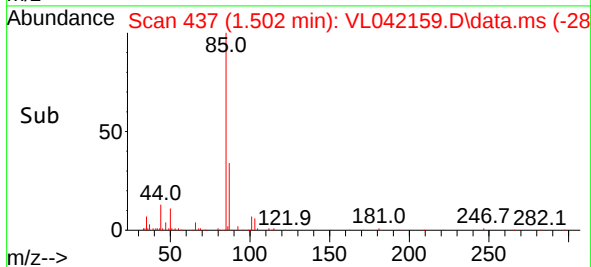
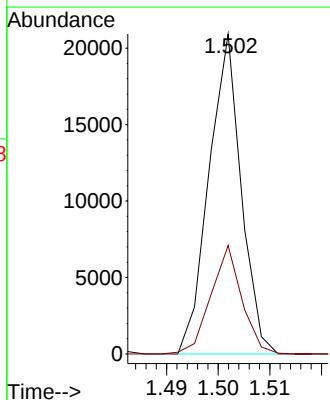
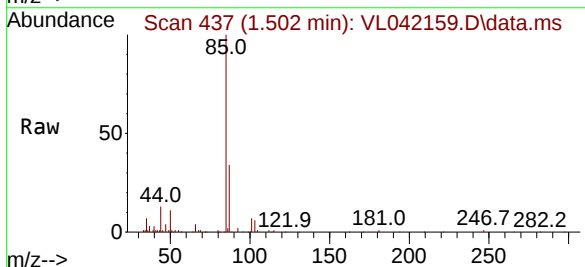
Instrument :
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 ClientSampleId :
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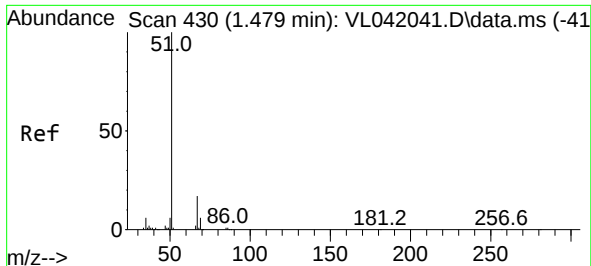
Tgt Ion: 49 Resp: 161407
 Ion Ratio Lower Upper
 49 100
 128 44.3 21.6 64.8
 130 57.2 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.539 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

Tgt Ion: 85 Resp: 9053
 Ion Ratio Lower Upper
 85 100
 87 33.6 26.4 39.6

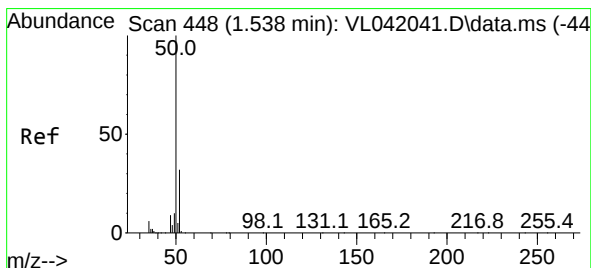
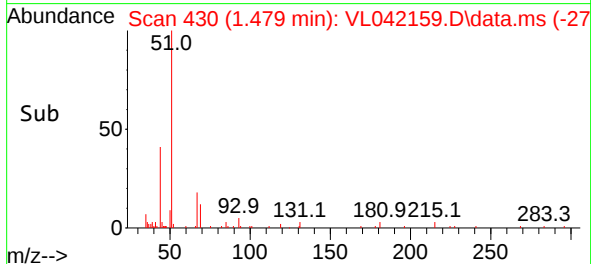
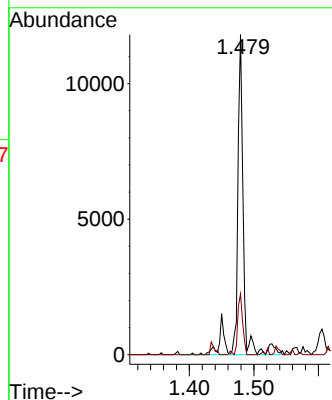
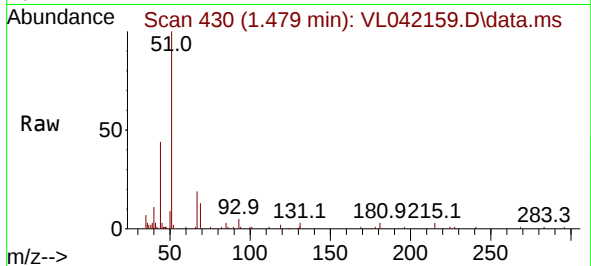




#3
Chlorodifluoromethane
Concen: 0.322 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

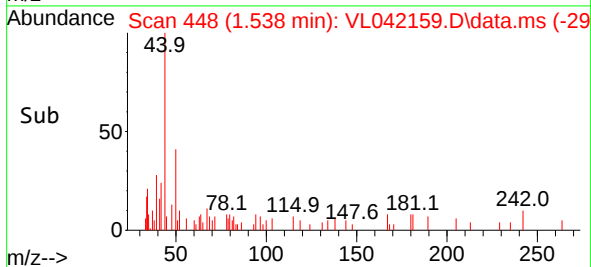
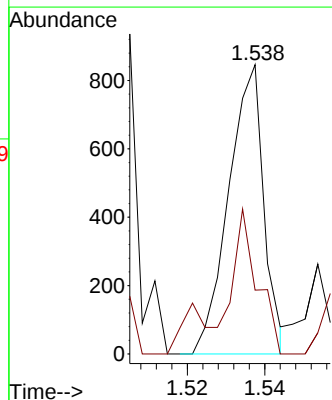
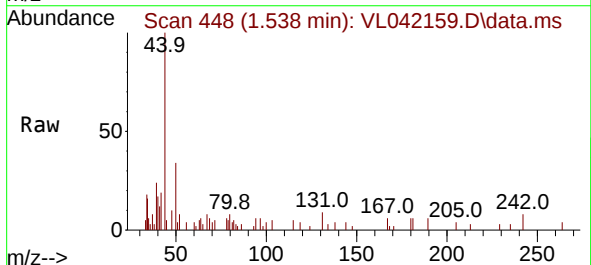
Instrument :
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ClientSampleId :
557-SG-1

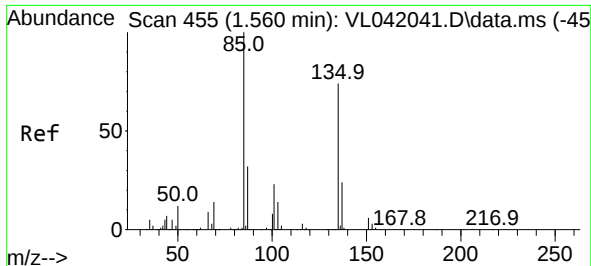
Tgt Ion: 51 Resp: 7553
Ion Ratio Lower Upper
51 100
67 16.0 13.7 20.5



#4
Chloromethane
Concen: 0.086 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion: 50 Resp: 534
Ion Ratio Lower Upper
50 100
52 22.1 25.4 38.0#

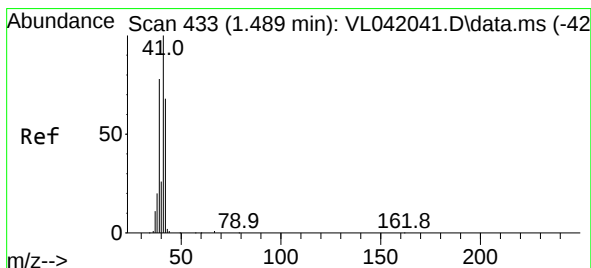
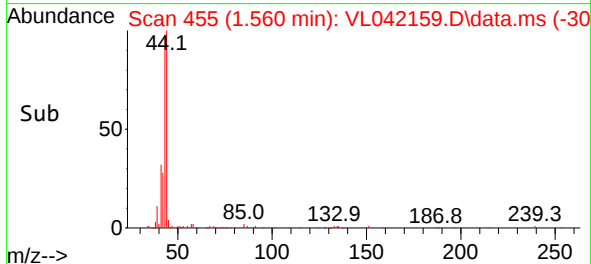
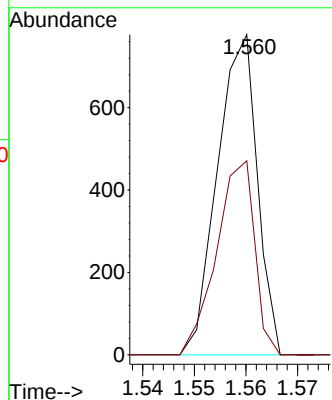
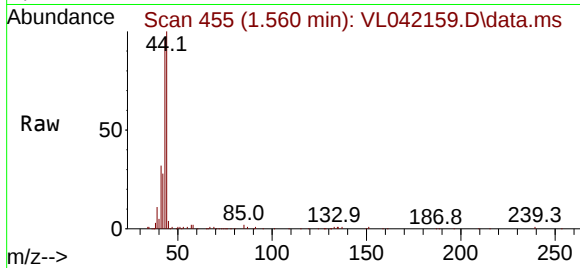




#8
 Dichlorotetrafluoroethane
 Concen: 0.030 ppbv
 RT: 1.560 min Scan# 417
 Delta R.T. -0.000 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

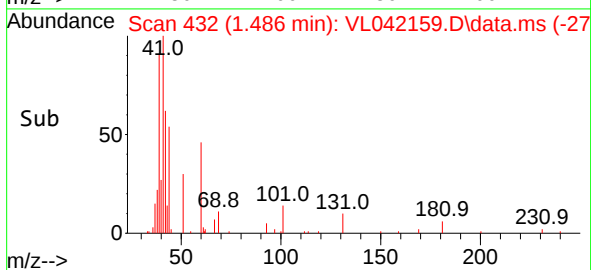
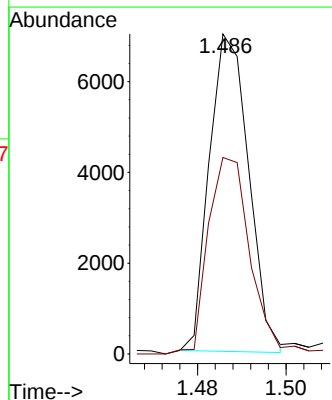
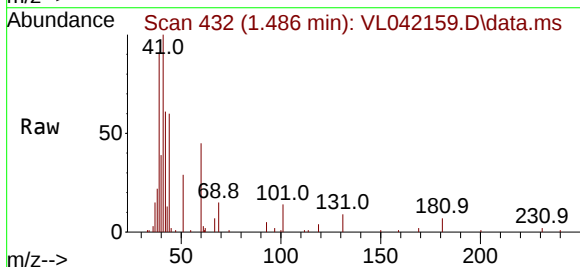
Instrument :
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 ClientSampleId :
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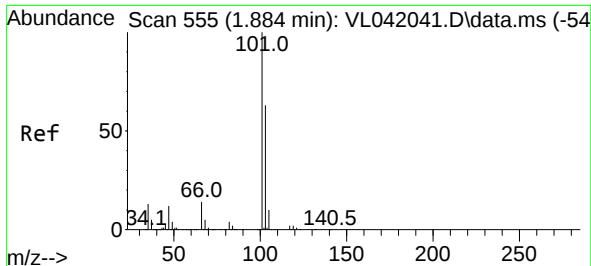
Tgt Ion: 85 Resp: 417
 Ion Ratio Lower Upper
 85 100
 135 58.3 54.6 81.8



#9
 Propene
 Concen: 0.451 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. -0.003 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

Tgt Ion: 41 Resp: 4314
 Ion Ratio Lower Upper
 41 100
 42 66.7 55.8 83.6

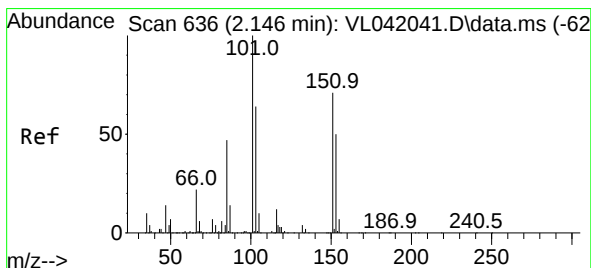
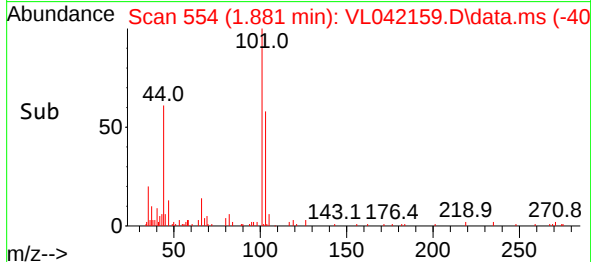
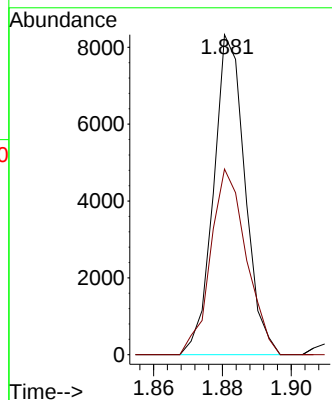
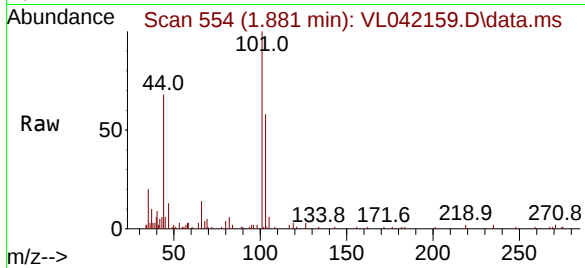




#11
 Trichlorofluoromethane
 Concen: 0.314 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

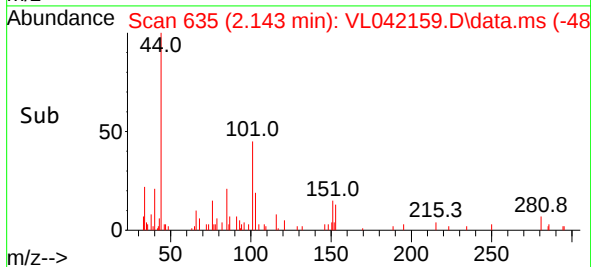
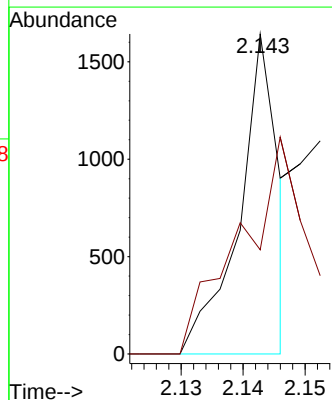
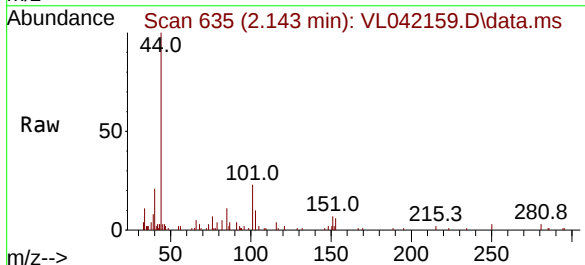
Instrument :
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 ClientSampleId :
 557-SG-1

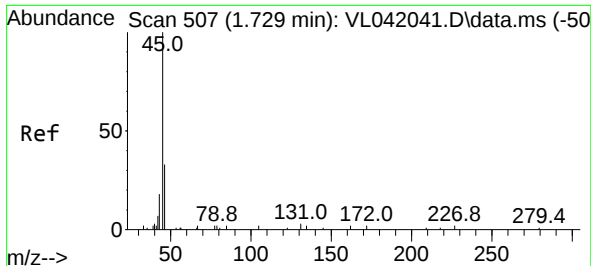
Tgt Ion:101 Resp: 5286
 Ion Ratio Lower Upper
 101 100
 103 58.0 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.054 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.003 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

Tgt Ion:101 Resp: 725
 Ion Ratio Lower Upper
 101 100
 151 125.0 62.6 94.0#

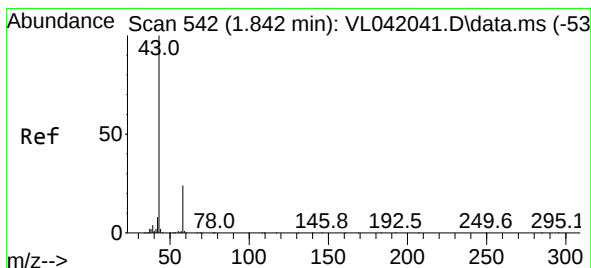
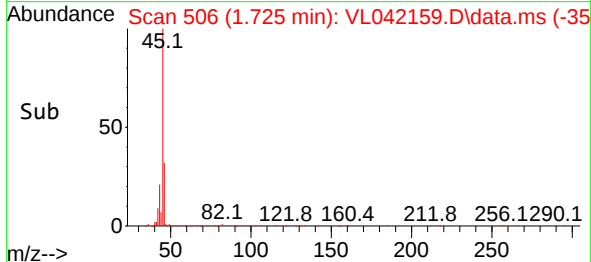
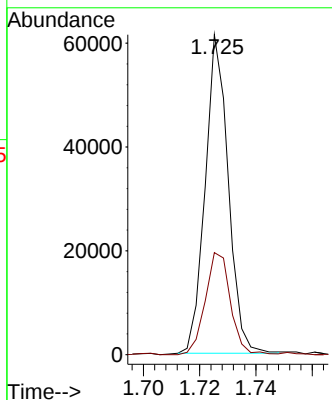
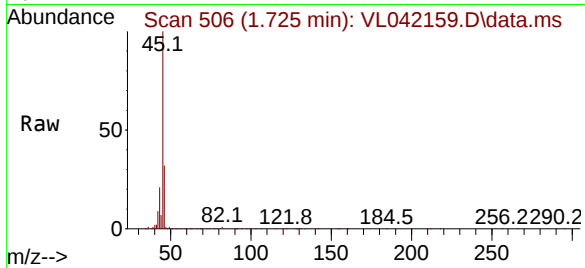




#13
 Ethanol
 Concen: 57.615 ppbv
 RT: 1.725 min Scan# 507
 Delta R.T. -0.003 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

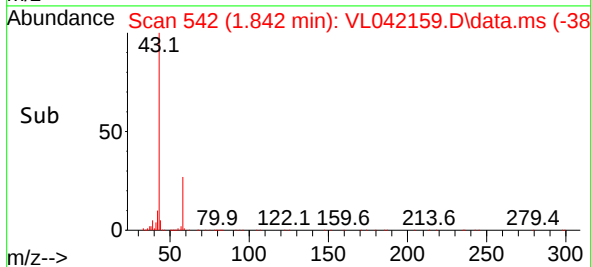
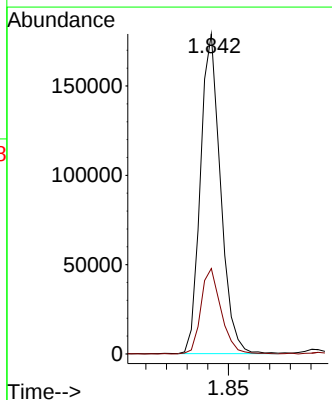
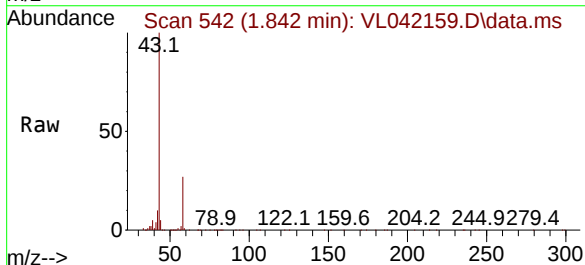
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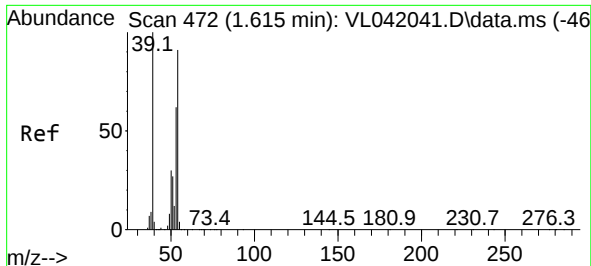
Tgt Ion: 45 Resp: 34953
 Ion Ratio Lower Upper
 45 100
 46 36.6 17.1 68.3



#15
 Acetone
 Concen: 8.499 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

Tgt Ion: 43 Resp: 121151
 Ion Ratio Lower Upper
 43 100
 58 27.0 20.7 31.1

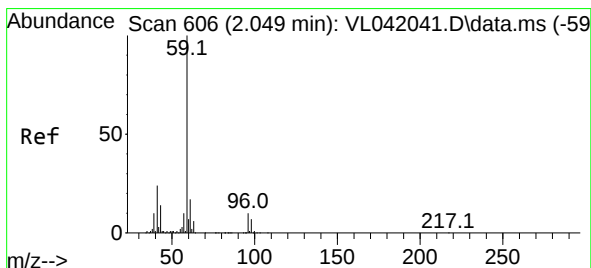
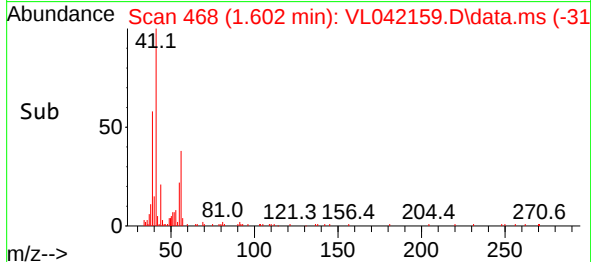
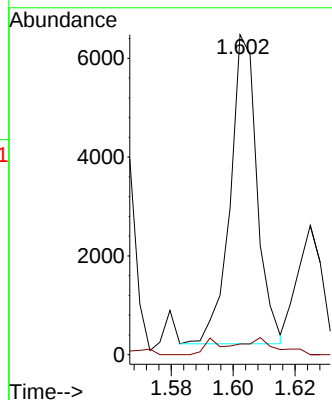
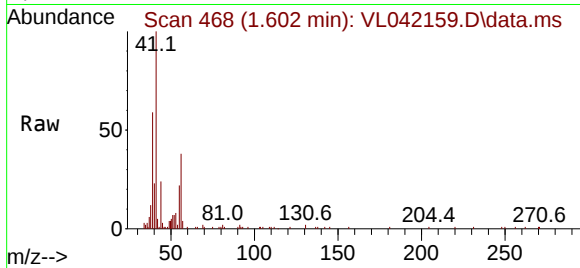




#16
1,3-Butadiene
Concen: 0.567 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

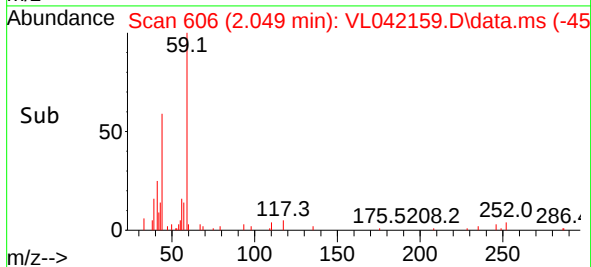
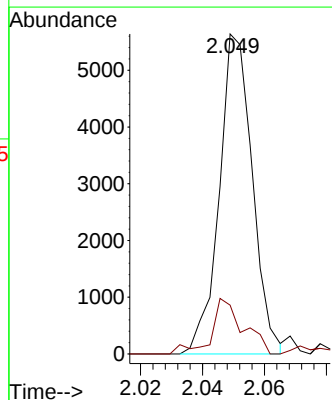
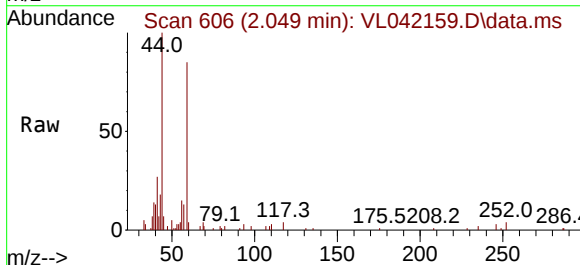
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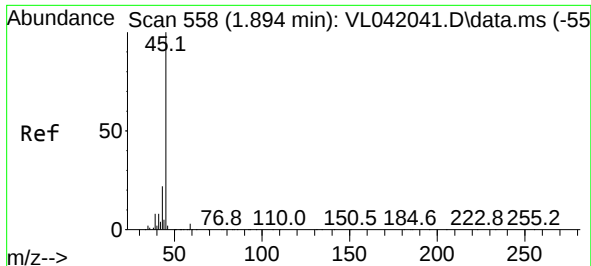
Tgt Ion: 39 Resp: 3760
Ion Ratio Lower Upper
39 100
54 12.2 59.6 89.4#



#17
tert-Butyl alcohol
Concen: 0.235 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion: 59 Resp: 4187
Ion Ratio Lower Upper
59 100
57 18.6 9.3 13.9#





#19

Isopropyl Alcohol

Concen: 0.723 ppbv

RT: 1.894 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

Instrument :

MSVOA_L

ClientSampleId :

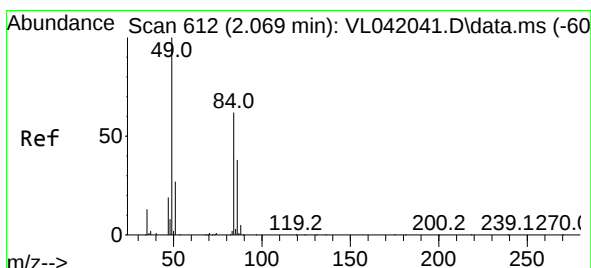
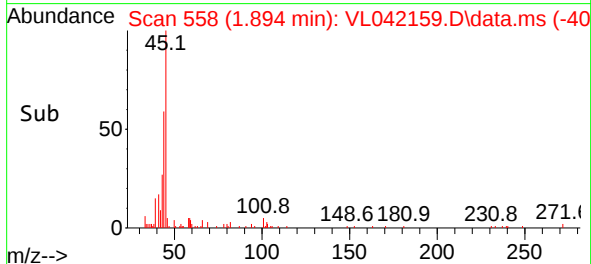
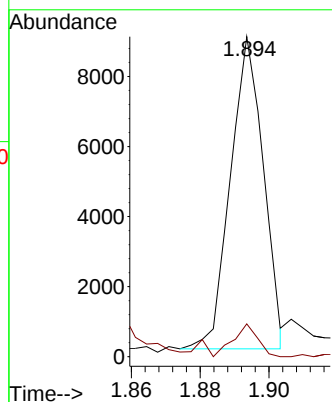
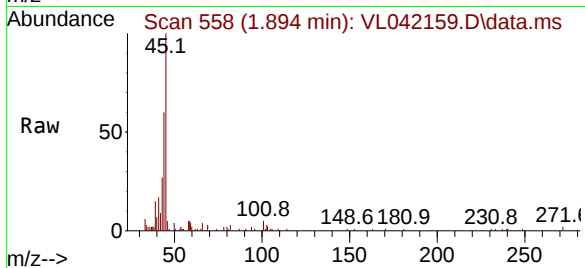
557-SG-1

Tgt Ion: 45 Resp: 5923

Ion Ratio Lower Upper

45 100

58 551.0 35.3 52.9#



#20

Methylene Chloride

Concen: 0.501 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.000 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

Tgt Ion: 84 Resp: 2702

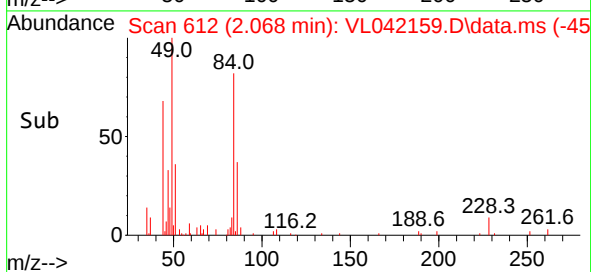
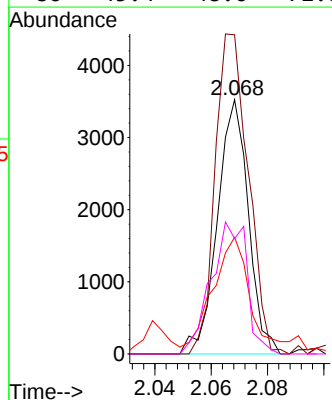
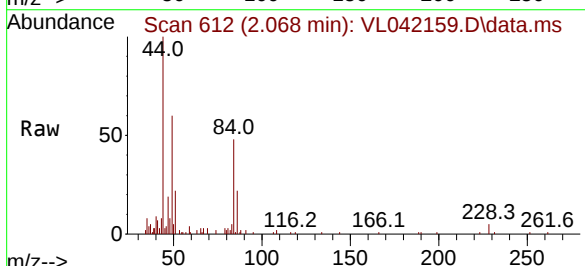
Ion Ratio Lower Upper

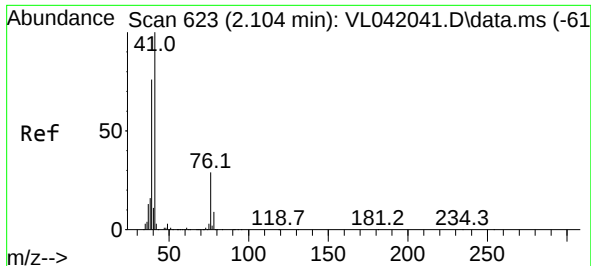
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49 125.5 130.0 195.0#

51 43.2 37.4 56.0

86 45.4 48.6 72.8#

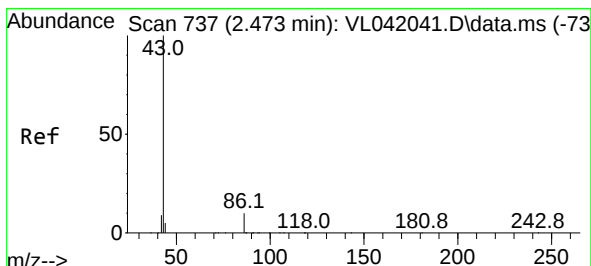
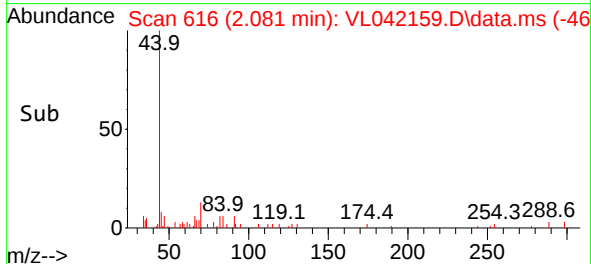
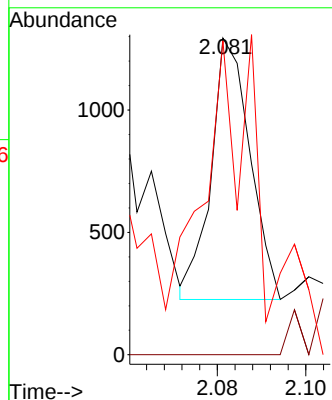
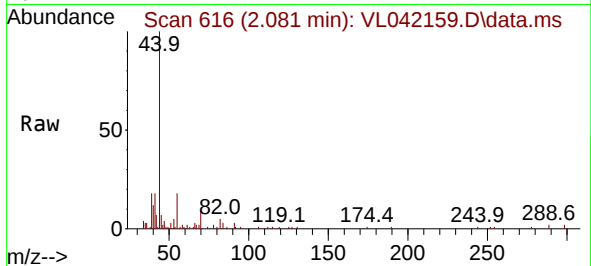




#21
 Allyl Chloride
 Concen: 0.063 ppbv
 RT: 2.081 min Scan# 61
 Delta R.T. -0.023 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

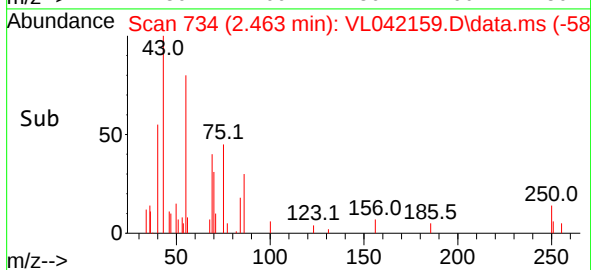
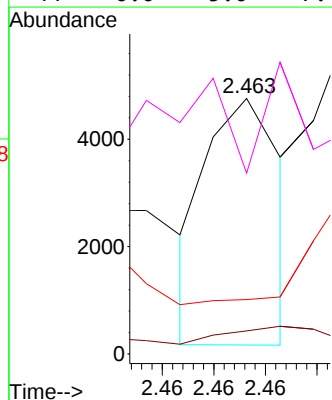
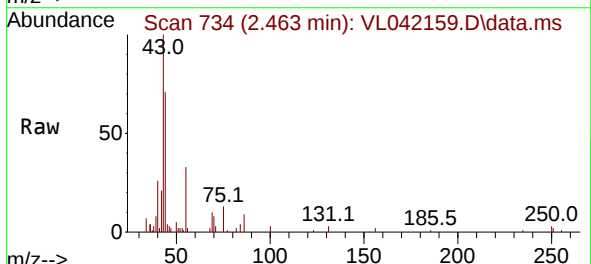
Instrument :
 MSVOA_1
 ClientSampleId :
 557-SG-1

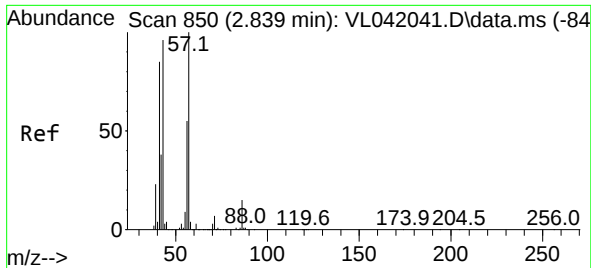
Tgt Ion: 41 Resp: 651
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.8 35.6#
 39 139.3 63.8 95.6#



#23
 Vinyl Acetate
 Concen: 0.232 ppbv
 RT: 2.463 min Scan# 734
 Delta R.T. -0.010 min
 Lab File: VL042159.D
 Acq: 17 Mar 2025 15:53

Tgt Ion: 43 Resp: 2325
 Ion Ratio Lower Upper
 43 100
 86 9.8 7.0 10.4
 42 3.7 7.6 11.4#
 44 0.0 5.0 7.4#

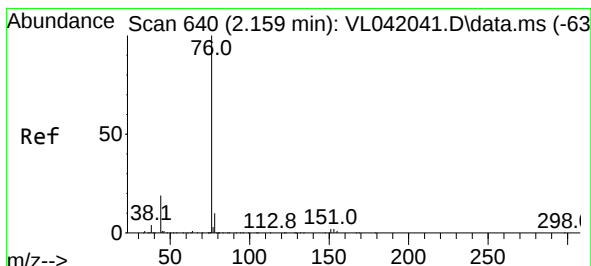
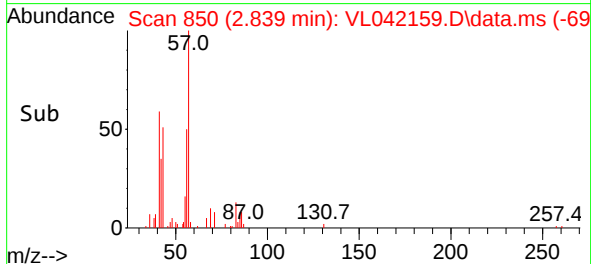
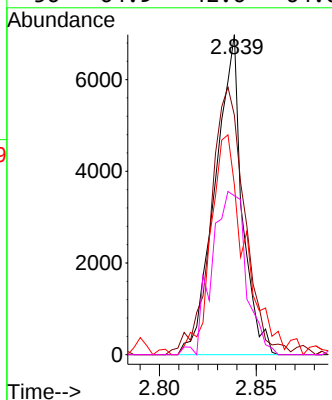
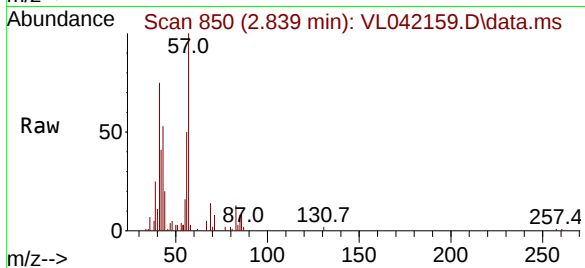




#26
Hexane
Concen: 0.294 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

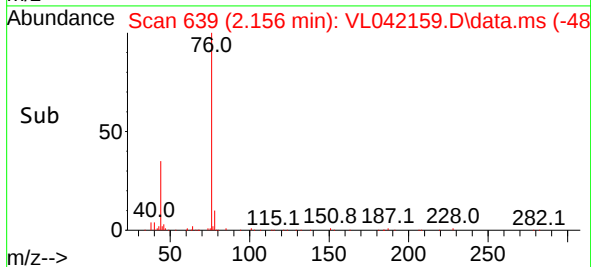
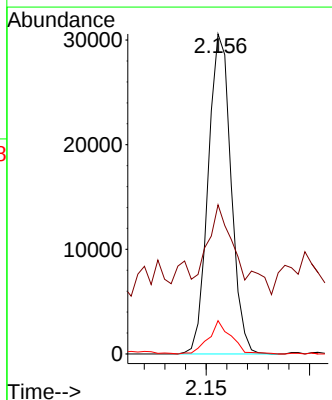
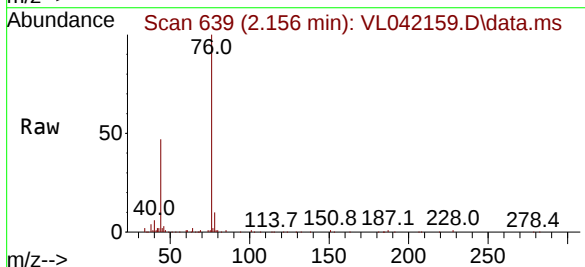
Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

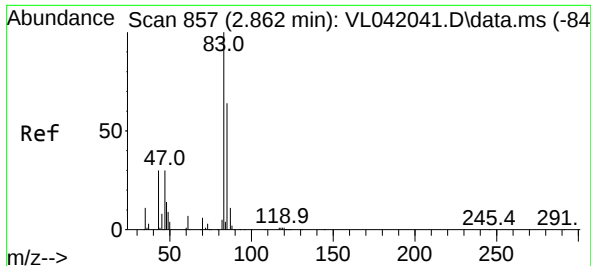
Tgt Ion:	57	Resp:	6791
Ion	Ratio	Lower	Upper
57	100		
41	108.2	70.6	106.0#
43	92.3	199.4	299.0#
56	64.9	42.6	64.0#



#27
Carbon Disulfide
Concen: 1.503 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion:	76	Resp:	23496
Ion	Ratio	Lower	Upper
76	100		
44	112.9	16.2	24.2#
78	10.3	9.4	14.0





#29

Chloroform

Concen: 0.777 ppbv

RT: 2.858 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

Instrument :

MSVOA_L

ClientSampleId :

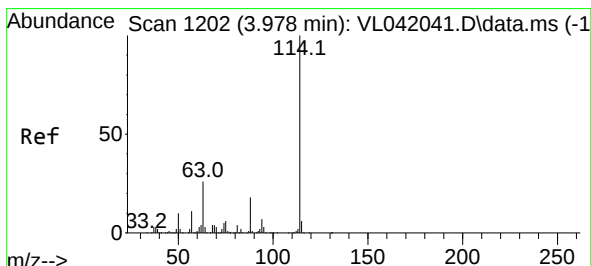
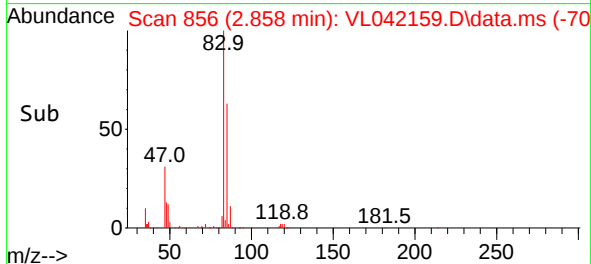
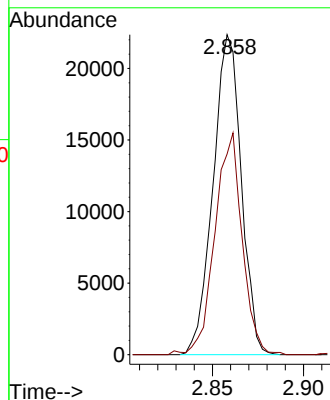
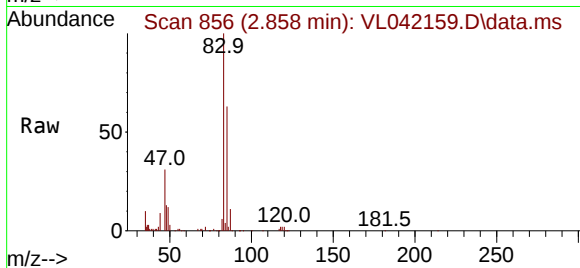
557-SG-1

Tgt Ion: 83 Resp: 24129

Ion Ratio Lower Upper

83 100

85 62.0 51.2 76.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.971 min Scan# 1200

Delta R.T. -0.007 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

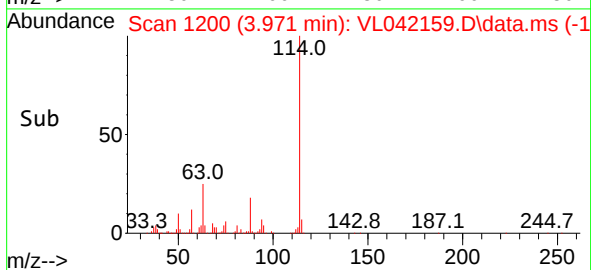
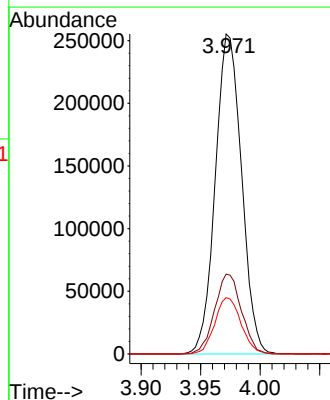
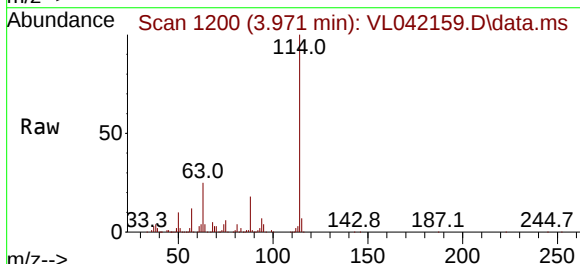
Tgt Ion: 114 Resp: 390134

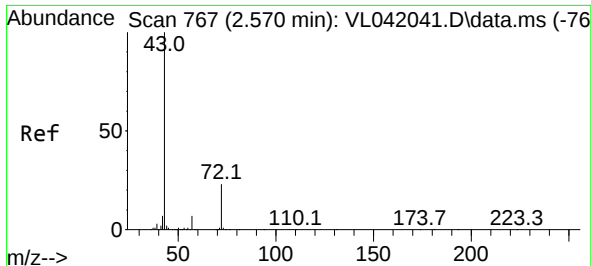
Ion Ratio Lower Upper

114 100

63 25.5 20.1 30.1

88 17.6 14.3 21.5

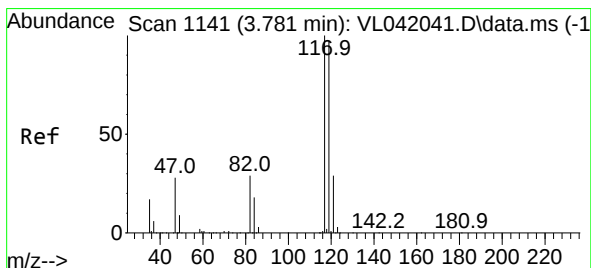
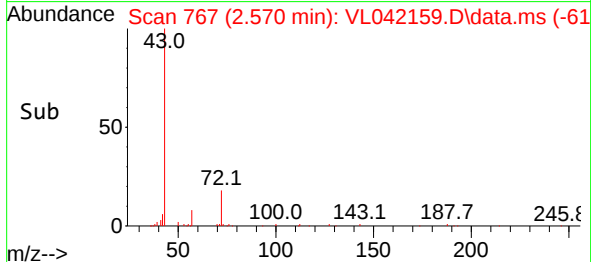
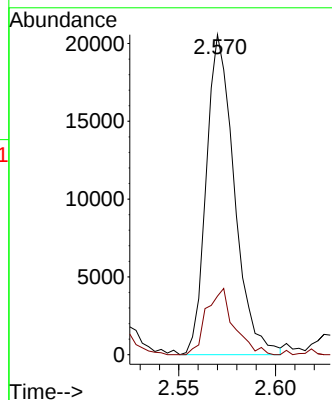
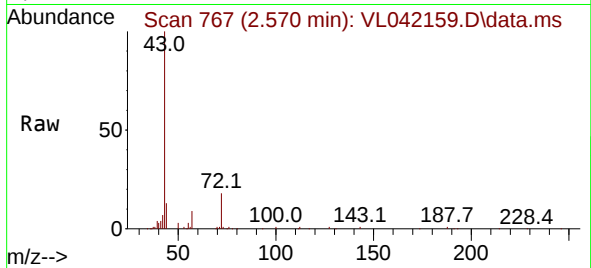




#34
2-Butanone
Concen: 0.682 ppbv
RT: 2.570 min Scan# 767
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

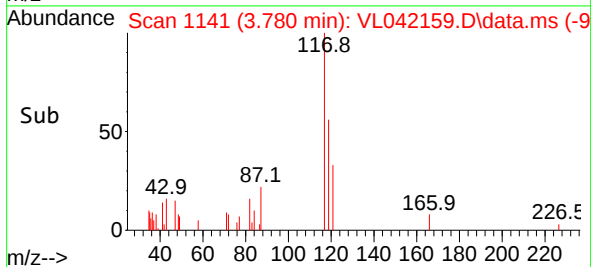
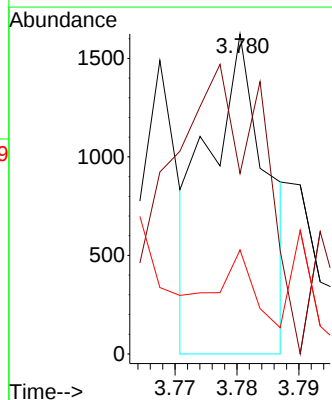
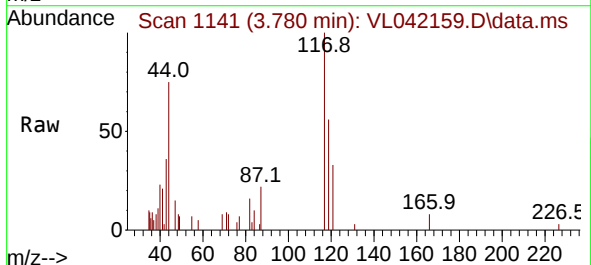
Instrument :
MSVOA_1
ClientSampleId :
557-SG-1

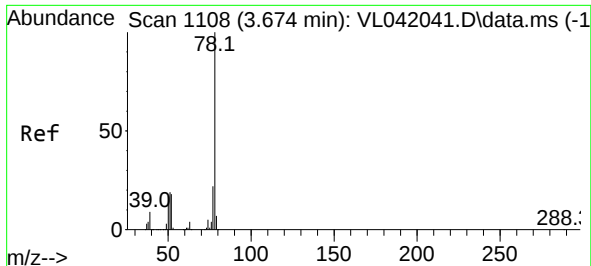
Tgt Ion: 43 Resp: 20731
Ion Ratio Lower Upper
43 100
72 21.1 18.5 27.7



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 3.780 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion: 117 Resp: 1068
Ion Ratio Lower Upper
117 100
119 49.6 77.8 116.8#
121 49.9 23.4 35.0#

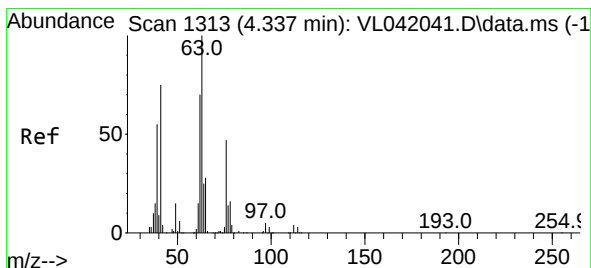
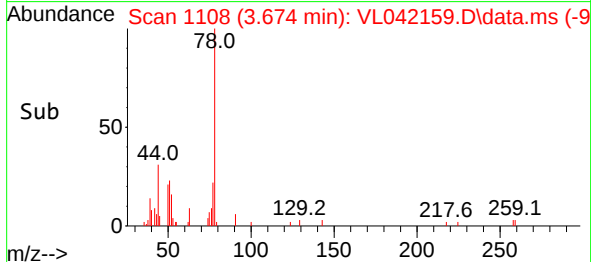
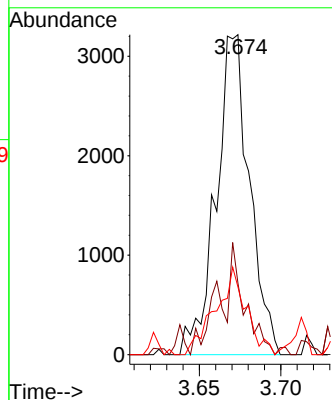
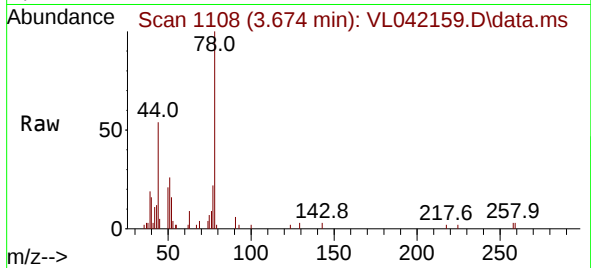




#36
Benzene
Concen: 0.112 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

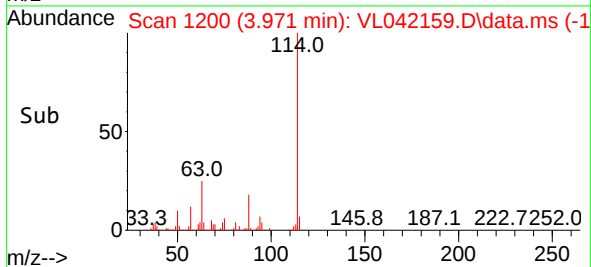
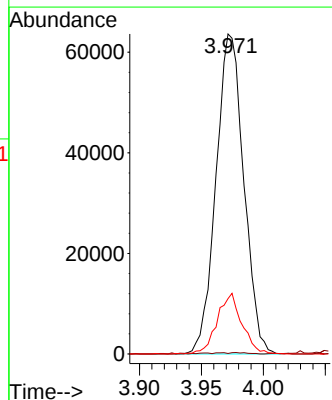
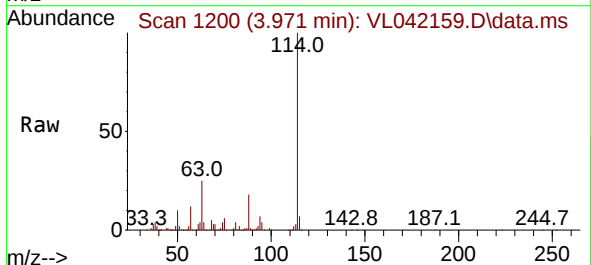
Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

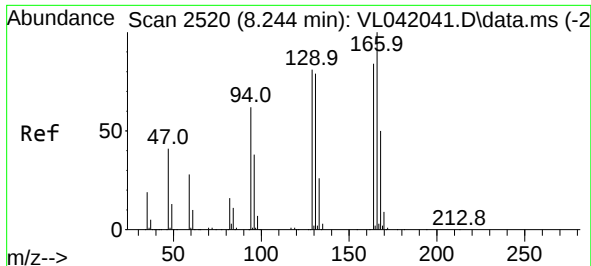
Tgt Ion: 78 Resp: 4592
Ion Ratio Lower Upper
78 100
77 20.1 17.7 26.5
50 21.1 13.9 20.9#



#39
1,2-Dichloropropane
Concen: 6.416 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. -0.366 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion: 63 Resp: 99455
Ion Ratio Lower Upper
63 100
41 0.0 60.1 90.1#
62 17.2 55.8 83.8#

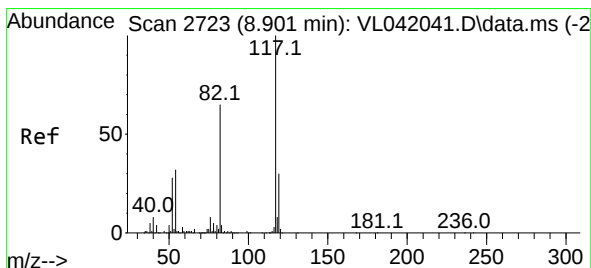
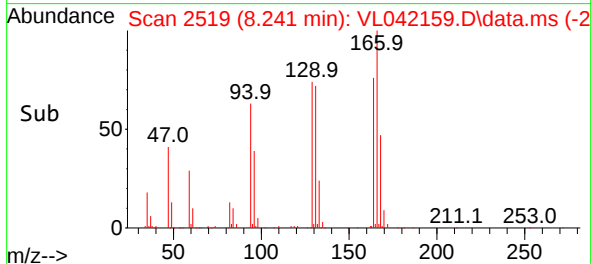
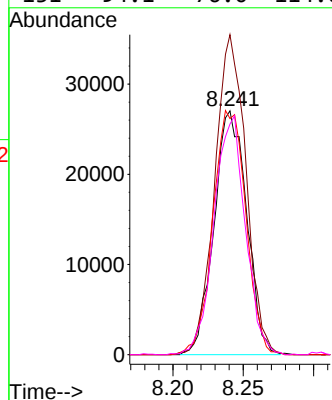
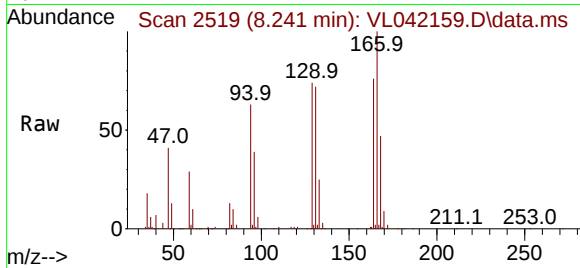




#52
Tetrachloroethene
Concen: 3.122 ppbv
RT: 8.241 min Scan# 2119
Delta R.T. -0.004 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

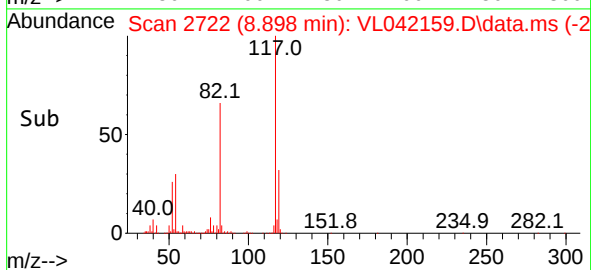
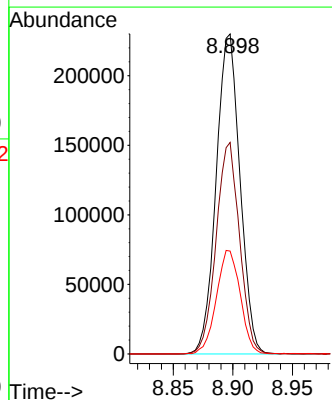
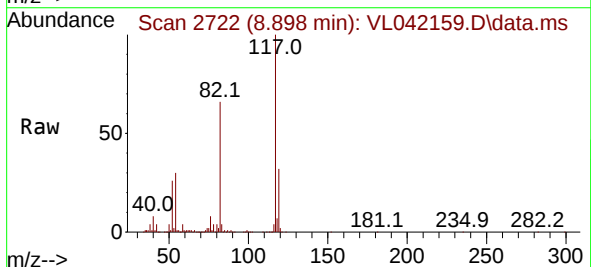
Instrument :
MSVOA_1
ClientSampleId :
557-SG-1

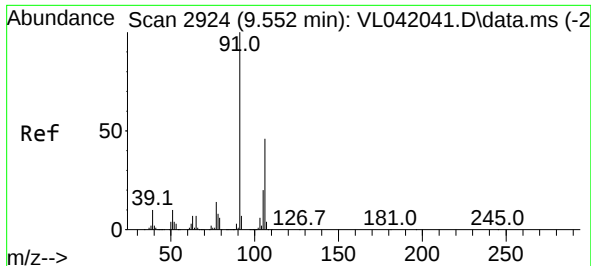
Tgt Ion:164	Resp:	43646
Ion	Ratio	Lower Upper
164	100	
166	130.6	95.7 143.5
129	96.0	77.1 115.7
131	94.1	76.0 114.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion:117	Resp:	319342
Ion	Ratio	Lower Upper
117	100	
82	65.0	55.0 82.6
119	32.5	25.9 38.9





#59

m/p-Xylene

Concen: 0.039 ppbv

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

Instrument :

MSVOA_L

ClientSampleId :

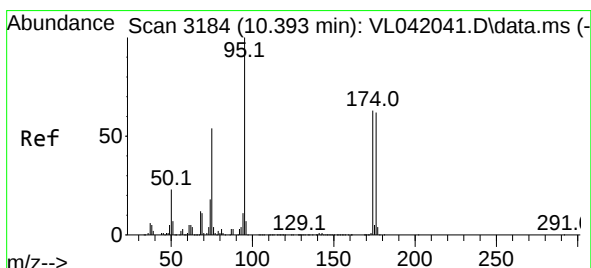
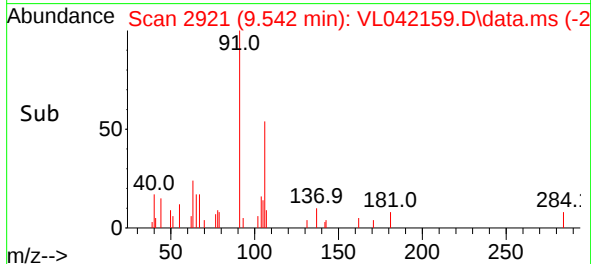
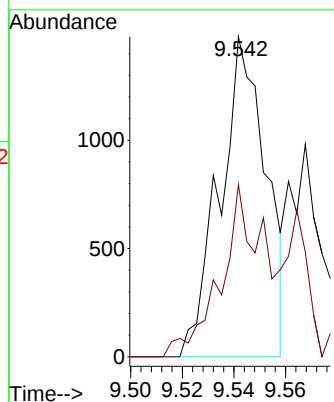
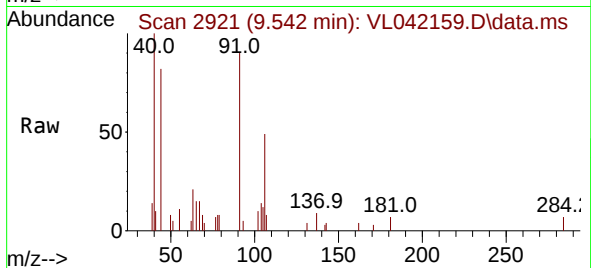
557-SG-1

Tgt Ion: 91 Resp: 1837

Ion Ratio Lower Upper

91 100

106 76.0 0.0 0.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.150 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. -0.003 min

Lab File: VL042159.D

Acq: 17 Mar 2025 15:53

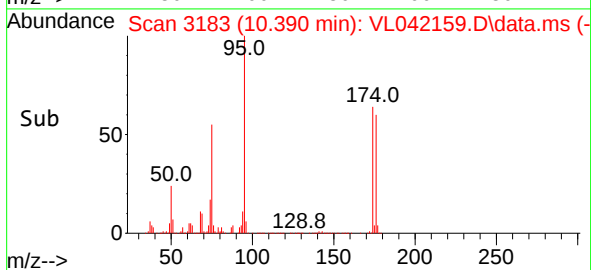
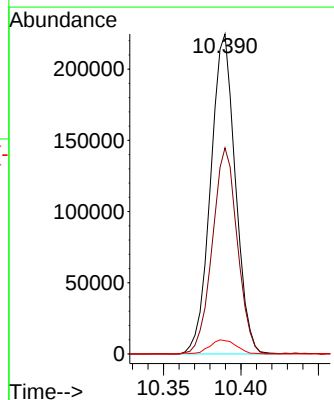
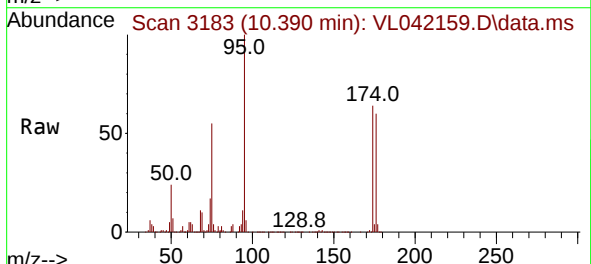
Tgt Ion: 95 Resp: 249363

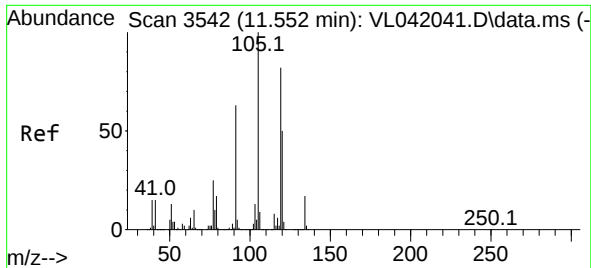
Ion Ratio Lower Upper

95 100

174 65.4 51.8 77.6

175 4.8 3.9 5.9

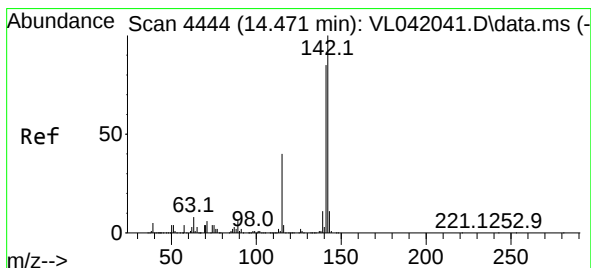
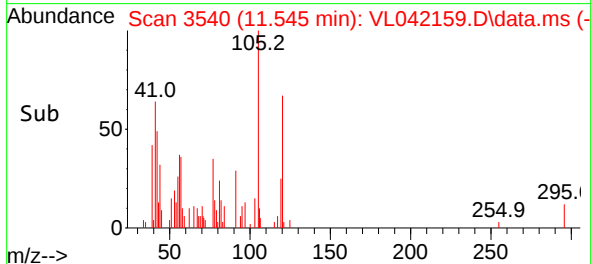
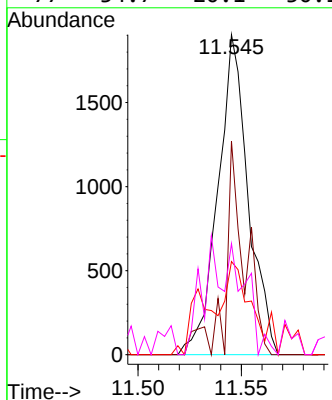
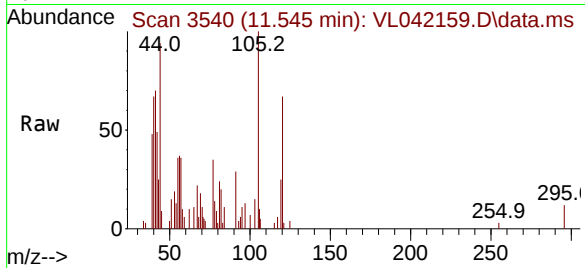




#74
1,2,4-Trimethylbenzene
Concen: 0.035 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.007 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

Tgt Ion:	105	Resp:	1946
Ion	Ratio	Lower	Upper
105	100		
120	66.7	40.2	60.2#
91	29.1	51.4	77.2#
77	34.7	20.1	30.1#



#80
Naphthalene,2-methyl-
Concen: 0.048 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.003 min
Lab File: VL042159.D
Acq: 17 Mar 2025 15:53

Tgt Ion:	142	Resp:	503
Ion	Ratio	Lower	Upper
142	100		
141	81.1	65.8	98.6
115	52.9	29.5	44.3#

