

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042101.D
 Acq On : 05 Mar 2025 13:16
 Operator : SY/MD
 Sample : Q1483-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: Mar 06 01:07:06 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	2.806	49	170910	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.988	114	395541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.917	117	368402	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	289610	10.218	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	4482	0.252	ppbv	99
3) Chlorodifluoromethane	1.483	51	208009	8.374	ppbv	94
4) Chloromethane	1.541	50	1611	0.245	ppbv #	86
6) Bromomethane	1.690	94	137	0.046	ppbv #	2
7) Chloroethane	1.463	64	19333	7.654	ppbv #	39
9) Propene	1.489	41	20710	2.047	ppbv	89
10) Heptane	5.020	43	9720	0.308	ppbv #	60
11) Trichlorofluoromethane	1.890	101	4168	0.234	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.159	101	466	0.033	ppbv	93
13) Ethanol	1.732	45	15231	23.710	ppbv	98
15) Acetone	1.848	43	280700	18.598	ppbv	94
16) 1,3-Butadiene	1.609	39	7271	1.035	ppbv #	40
17) tert-Butyl alcohol	2.059	59	1536	0.081	ppbv #	89
19) Isopropyl Alcohol	1.900	45	14430	1.664	ppbv #	1
20) Methylene Chloride	2.078	84	2447	0.429	ppbv #	71
22) trans-1,2-Dichloroethene	2.357	96	8808	1.177	ppbv	85
23) Vinyl Acetate	2.470	43	4340	0.409	ppbv #	78
24) 1,1-Dichloroethane	2.357	63	4768	0.342	ppbv #	1
25) Ethyl Acetate	2.845	43	54594	0.904	ppbv #	78
26) Hexane	2.845	57	74480	3.049	ppbv #	34
27) Carbon Disulfide	2.162	76	5536	0.334	ppbv #	1
29) Chloroform	2.868	83	50161	1.526	ppbv	95
30) Cyclohexane	3.878	84	712	0.036	ppbv #	1
31) cis-1,2-Dichloroethene	2.742	61	71664	3.100	ppbv	97
34) 2-Butanone	2.577	43	105117	3.411	ppbv	96
36) Benzene	3.684	78	12204	0.295	ppbv	99
38) Trichloroethene	4.587	130	2161401	127.831	ppbv	98
39) 1,2-Dichloropropane	4.580	63	5818	0.370	ppbv #	1
41) Tetrahydrofuran	3.088	42	9252	0.508	ppbv	99
51) 2-Hexanone	7.480	43	15195	0.554	ppbv #	90
52) Tetrachloroethene	8.377	164	18001705	1269.937	ppbv	94
53) Toluene	6.972	91	51659	1.116	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.959	131	6040	0.290	ppbv #	57
58) Ethyl Benzene	9.387	91	27047	0.399	ppbv	93
59) m/p-Xylene	9.561	91	50697	0.939	ppbv #	100
60) o-Xylene	9.989	91	27448	0.506	ppbv	100
62) Isopropylbenzene	10.565	105	10157	0.125	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	8435	0.236	ppbv	84
64) n-propylbenzene	11.011	120	5108	0.240	ppbv	75
65) tert-Butylbenzene	11.558	119	2987	0.040	ppbv #	21
66) Benzyl Chloride	11.649	91	564	0.100	ppbv #	65
67) sec-Butylbenzene	11.788	105	11122	0.105	ppbv #	87
69) p-Isopropyltoluene	11.947	119	13541	0.161	ppbv	96

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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SV3

Quant Time: Mar 06 01:07:06 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

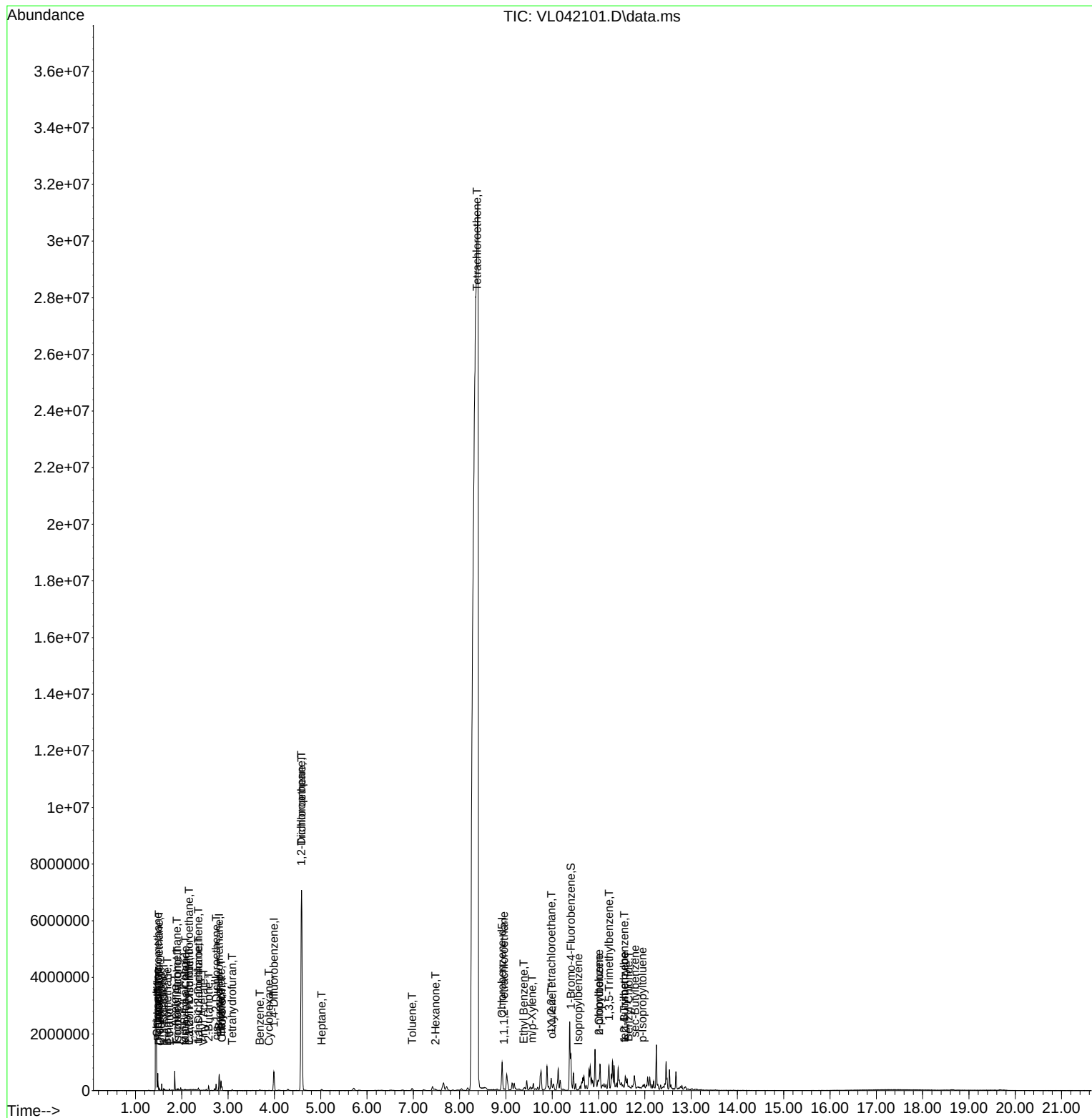
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	11.011	91	24748	0.395	ppbv	70
73) 1,3,5-Trimethylbenzene	11.225	105	12204	0.212	ppbv	94
74) 1,2,4-Trimethylbenzene	11.558	105	18954	0.293	ppbv #	60

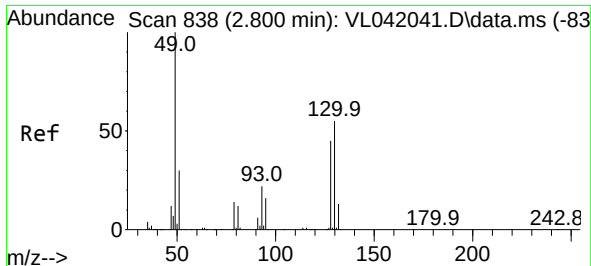
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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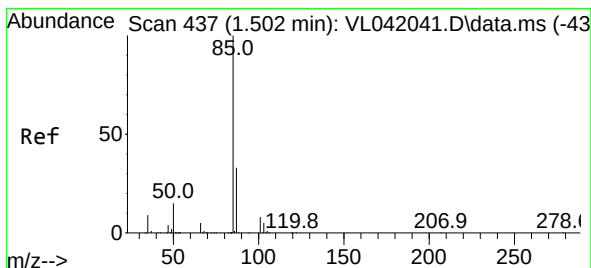
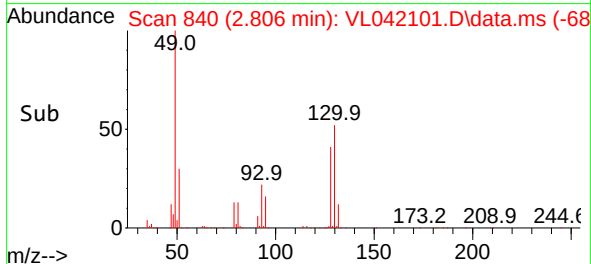
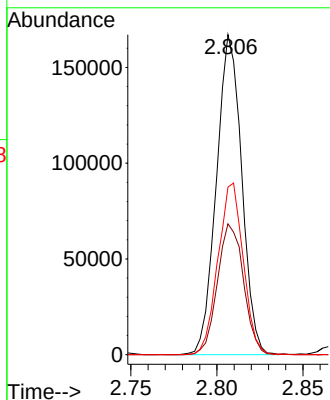
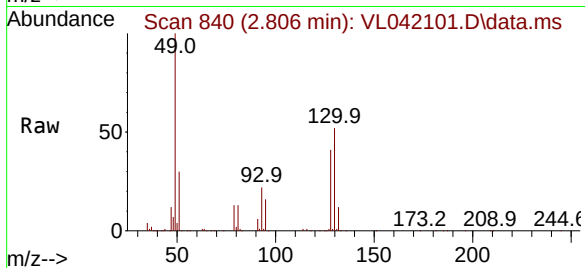




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.806 min Scan# 84
 Delta R.T. 0.006 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

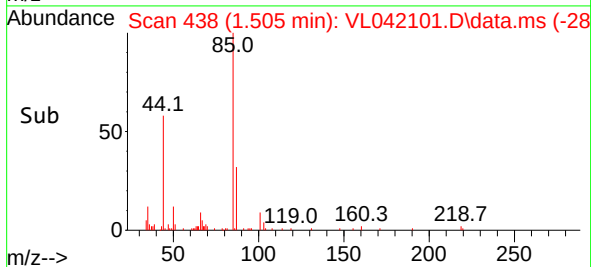
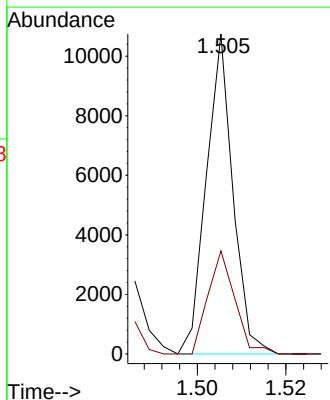
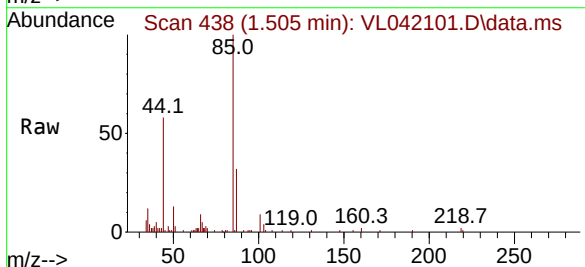
Instrument :
 MSVOA_L
 ClientSampleId :
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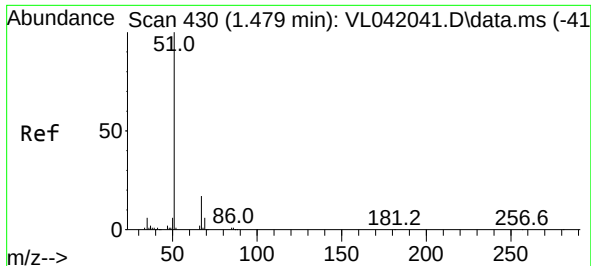
Tgt Ion: 49 Resp: 170910
 Ion Ratio Lower Upper
 49 100
 128 42.2 21.6 64.8
 130 53.5 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.252 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.003 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Tgt Ion: 85 Resp: 4482
 Ion Ratio Lower Upper
 85 100
 87 32.2 26.4 39.6

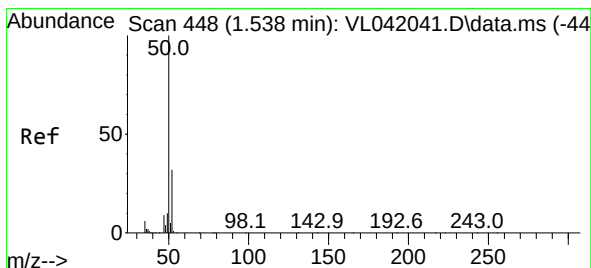
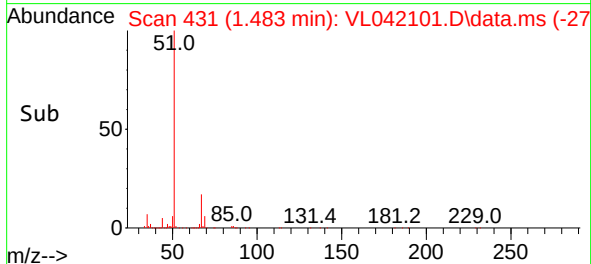
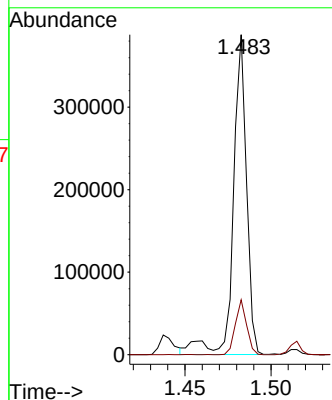
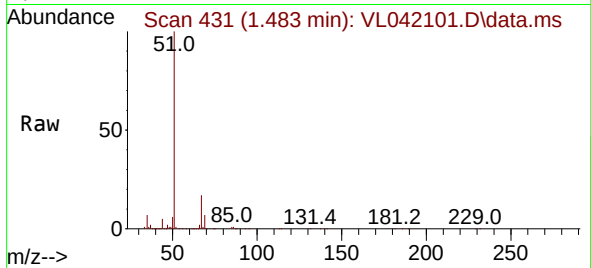




#3
Chlorodifluoromethane
Concen: 8.374 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

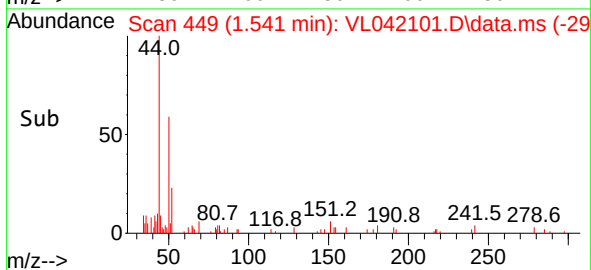
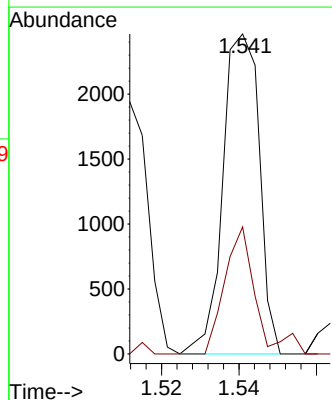
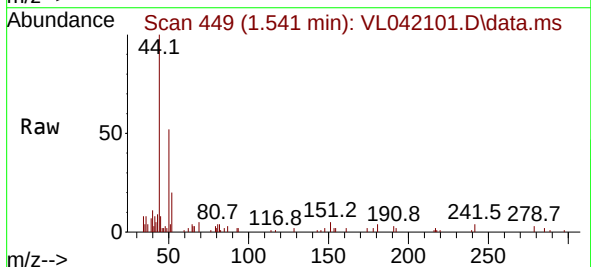
Instrument :
MSVOA_L
ClientSampleId :
SV3

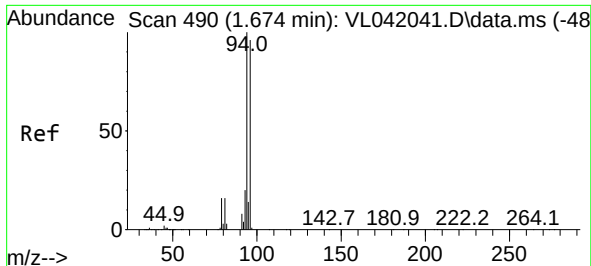
Tgt Ion: 51 Resp: 208009
Ion Ratio Lower Upper
51 100
67 14.7 13.7 20.5



#4
Chloromethane
Concen: 0.245 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 50 Resp: 1611
Ion Ratio Lower Upper
50 100
52 39.7 25.4 38.0#

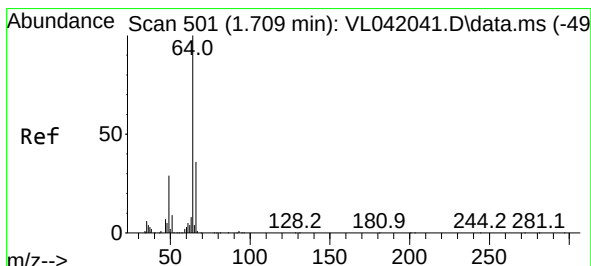
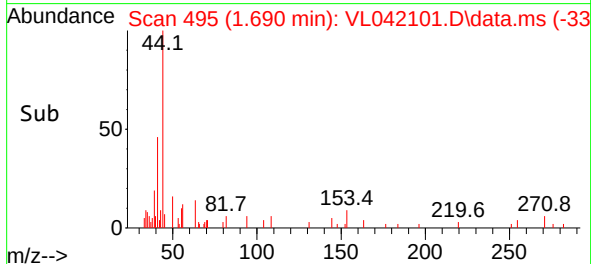
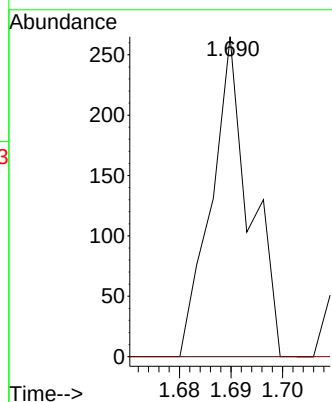
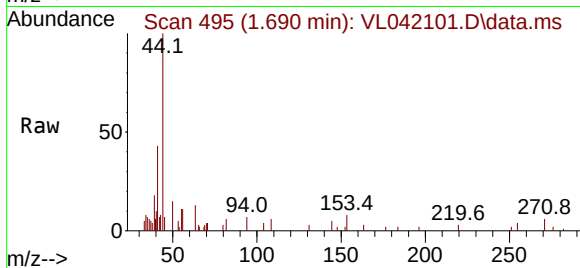




#6
Bromomethane
Concen: 0.046 ppbv
RT: 1.690 min Scan# 490
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

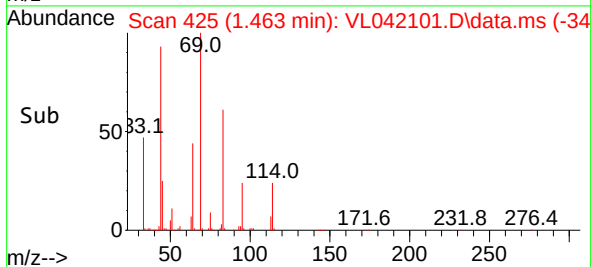
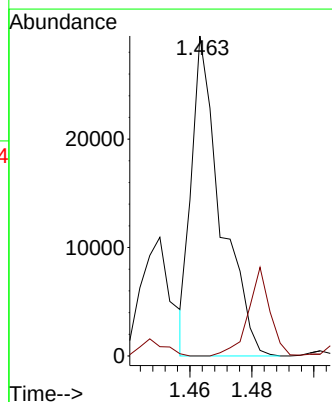
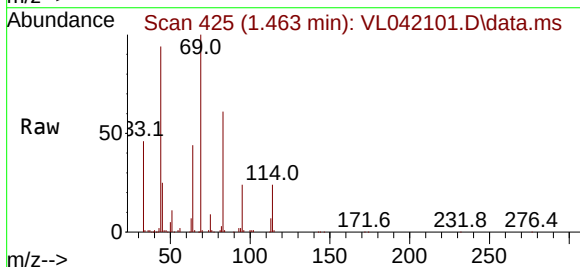
Instrument :
MSVOA_L
ClientSampleId :
SV3

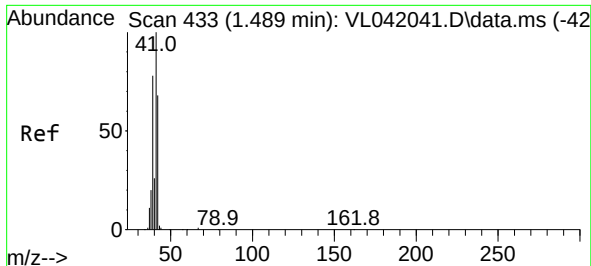
Tgt Ion: 94 Resp: 137
Ion Ratio Lower Upper
94 100
96 0.0 76.5 114.7#



#7
Chloroethane
Concen: 7.654 ppbv
RT: 1.463 min Scan# 425
Delta R.T. -0.246 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 64 Resp: 19333
Ion Ratio Lower Upper
64 100
66 0.0 28.4 42.6#





#9

Propene

Concen: 2.047 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

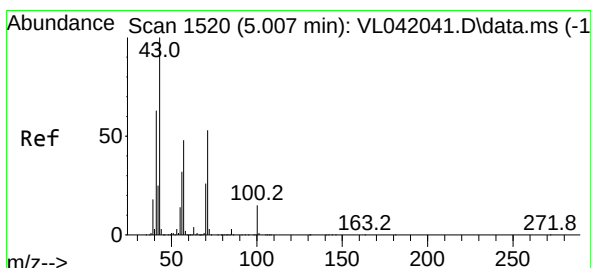
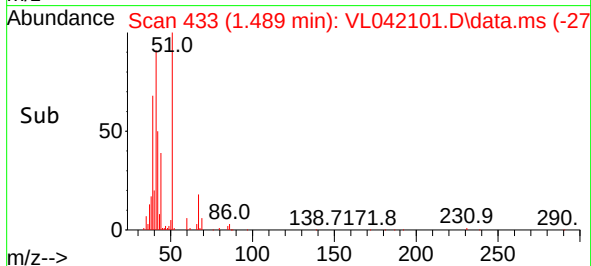
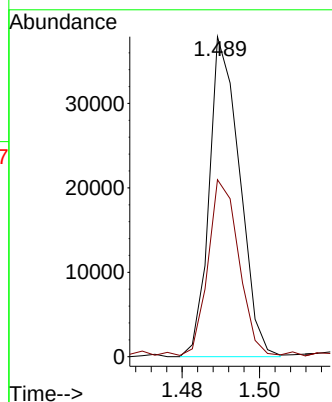
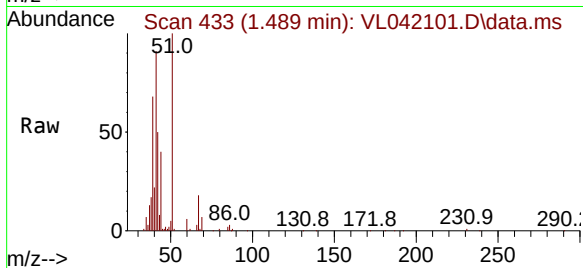
SV3

Tgt Ion: 41 Resp: 20710

Ion Ratio Lower Upper

41 100

42 60.6 55.8 83.6



#10

Heptane

Concen: 0.308 ppbv

RT: 5.020 min Scan# 1524

Delta R.T. 0.013 min

Lab File: VL042101.D

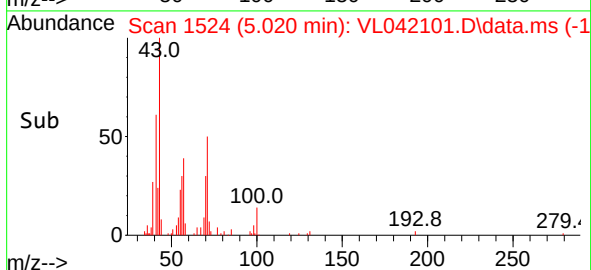
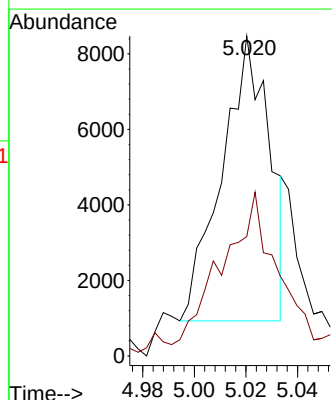
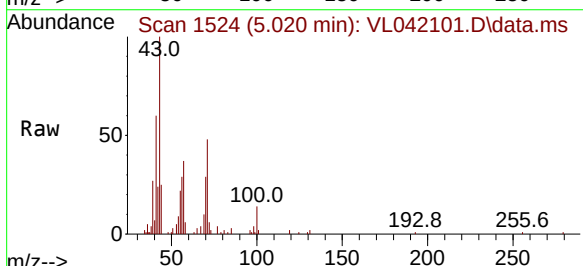
Acq: 05 Mar 2025 13:16

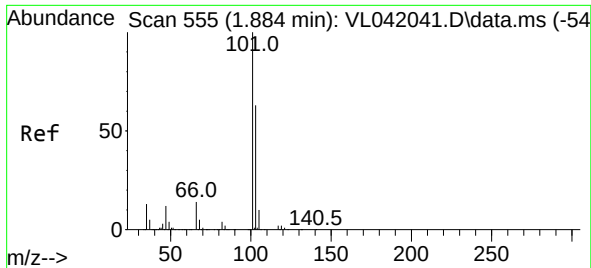
Tgt Ion: 43 Resp: 9720

Ion Ratio Lower Upper

43 100

57 76.5 39.4 59.0#





#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

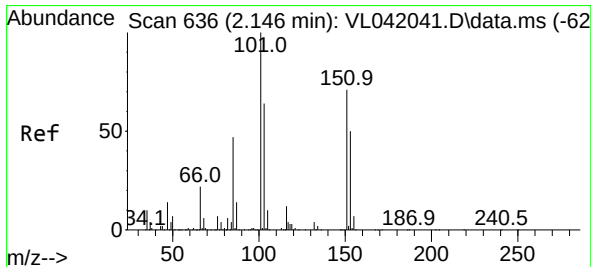
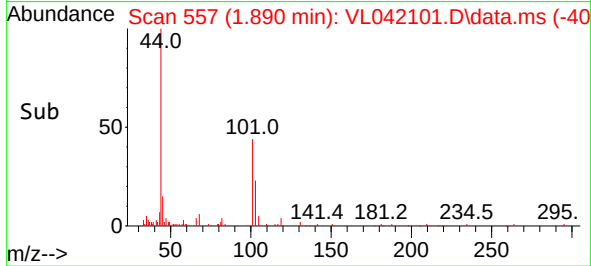
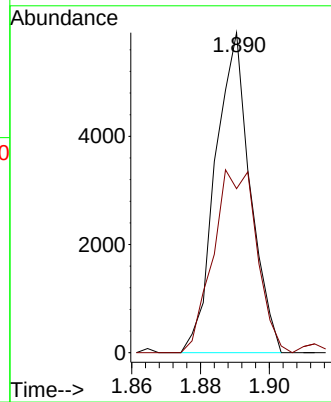
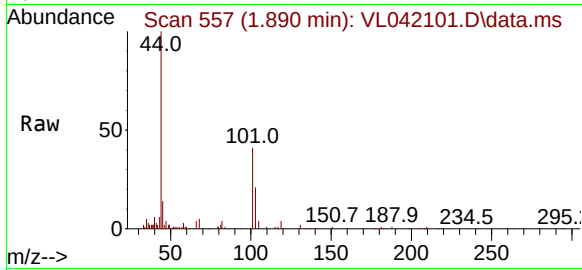
SV3

Tgt Ion:101 Resp: 4168

Ion Ratio Lower Upper

101 100

103 51.3 50.6 75.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 2.159 min Scan# 640

Delta R.T. 0.013 min

Lab File: VL042101.D

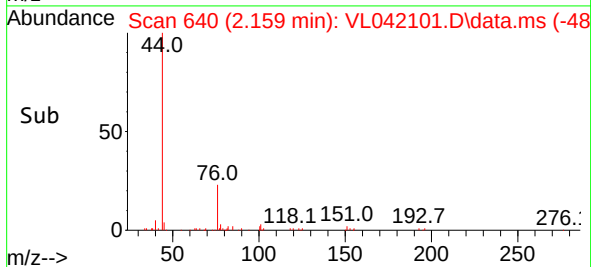
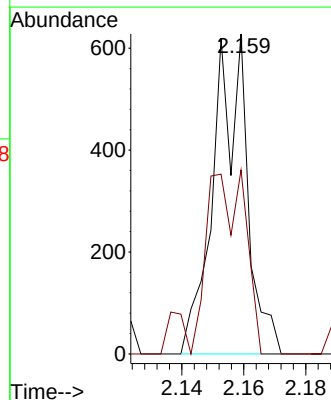
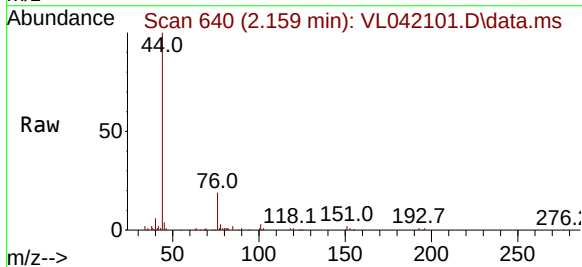
Acq: 05 Mar 2025 13:16

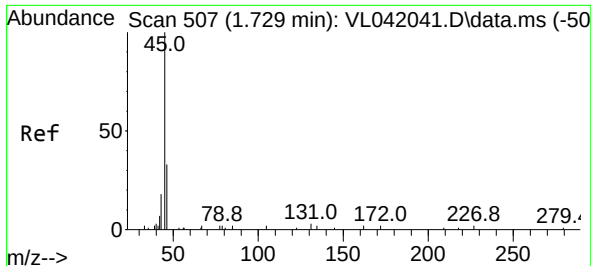
Tgt Ion:101 Resp: 466

Ion Ratio Lower Upper

101 100

151 72.1 62.6 94.0

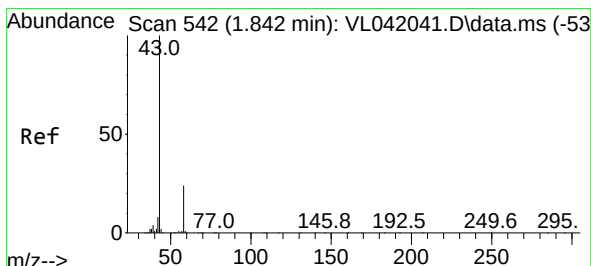
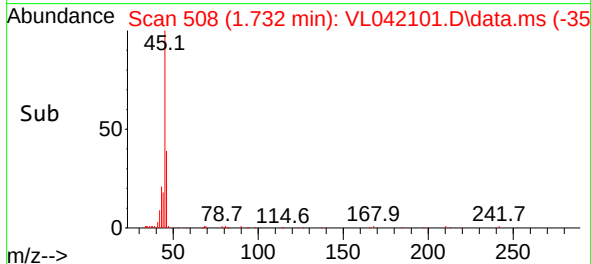
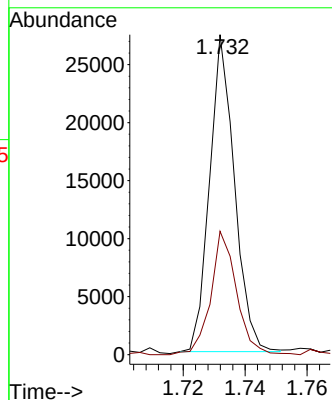
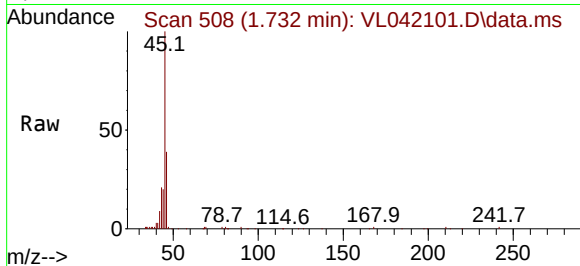




#13
Ethanol
Concen: 23.710 ppbv
RT: 1.732 min Scan# 507
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

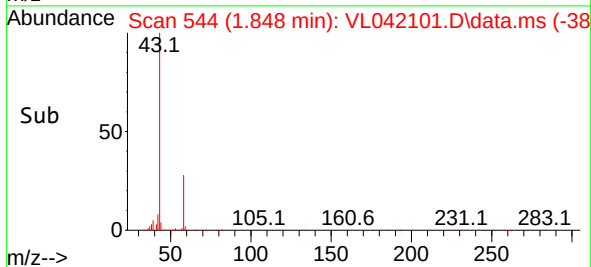
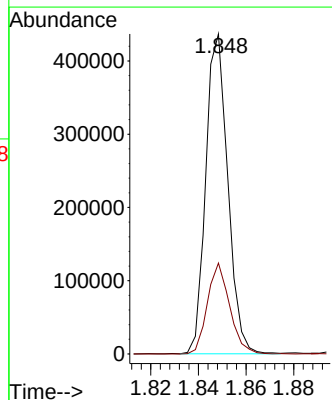
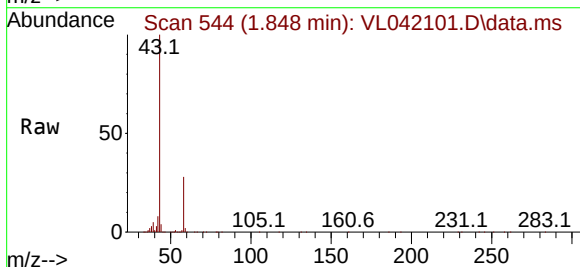
Instrument :
MSVOA_L
ClientSampleId :
SV3

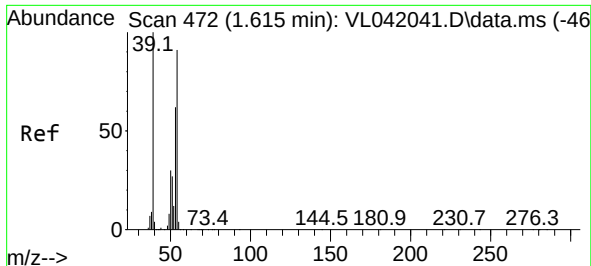
Tgt Ion: 45 Resp: 15231
Ion Ratio Lower Upper
45 100
46 41.7 17.1 68.3



#15
Acetone
Concen: 18.598 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 43 Resp: 280700
Ion Ratio Lower Upper
43 100
58 28.7 20.7 31.1

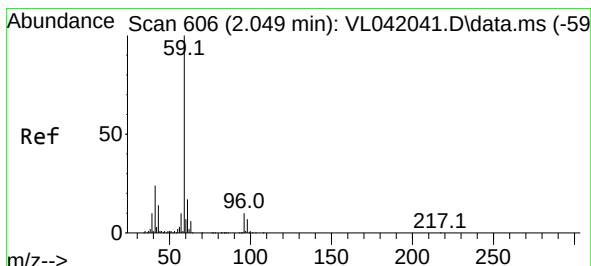
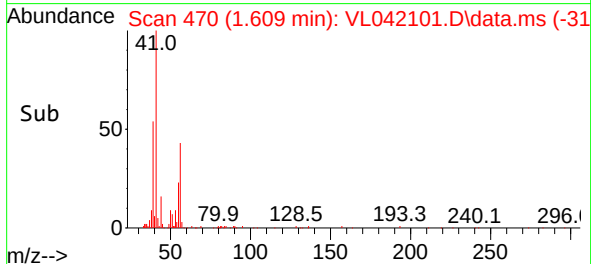
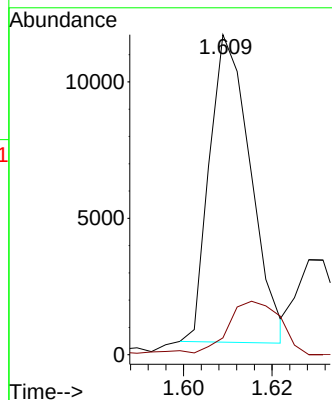
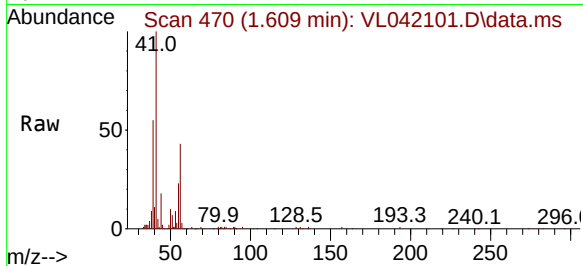




#16
1,3-Butadiene
Concen: 1.035 ppbv
RT: 1.609 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

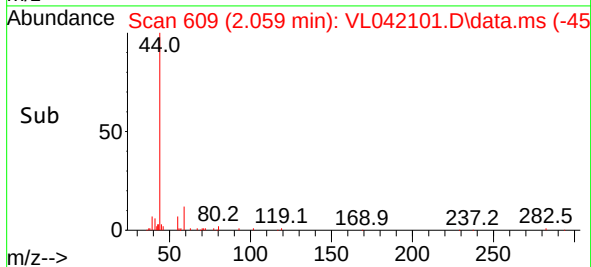
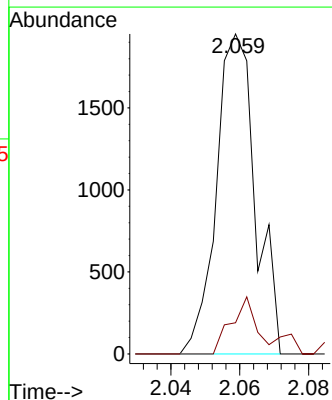
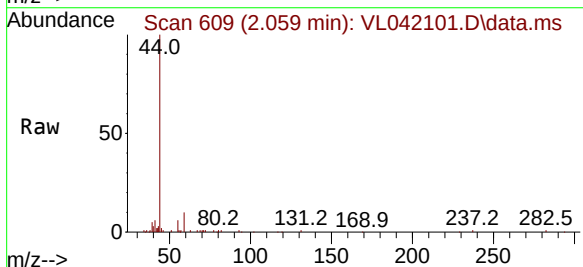
Instrument :
MSVOA_L
ClientSampleId :
SV3

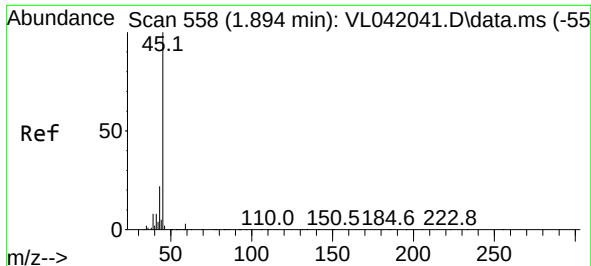
Tgt Ion: 39 Resp: 7271
Ion Ratio Lower Upper
39 100
54 24.0 59.6 89.4#



#17
tert-Butyl alcohol
Concen: 0.081 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 59 Resp: 1536
Ion Ratio Lower Upper
59 100
57 16.0 9.3 13.9#

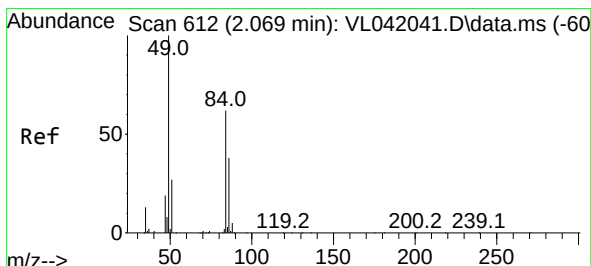
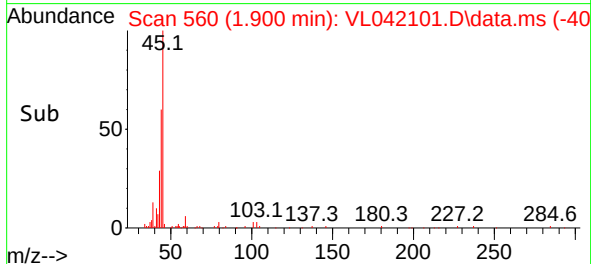
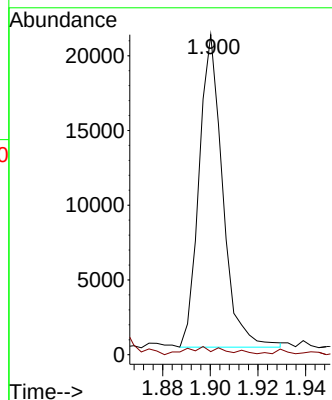
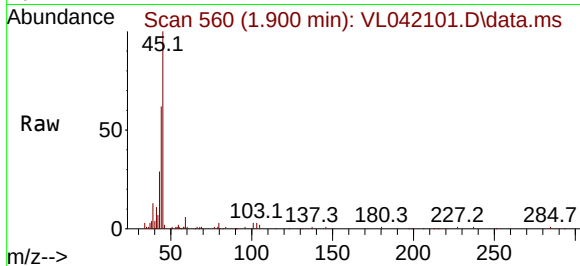




#19
Isopropyl Alcohol
Concen: 1.664 ppbv
RT: 1.900 min Scan# 519
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

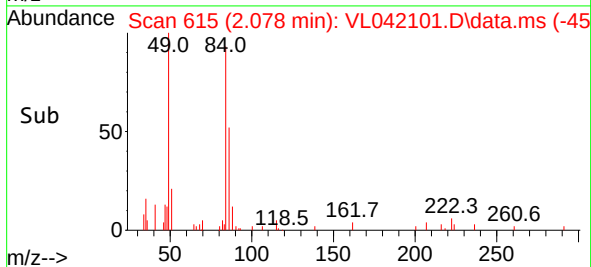
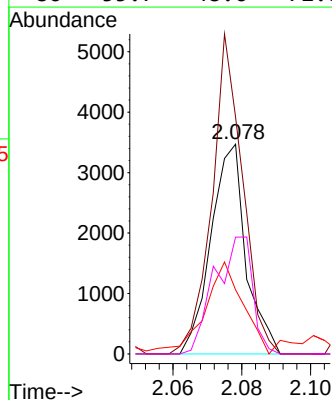
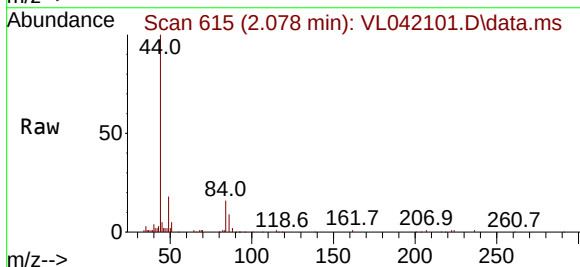
Instrument :
MSVOA_L
ClientSampleId :
SV3

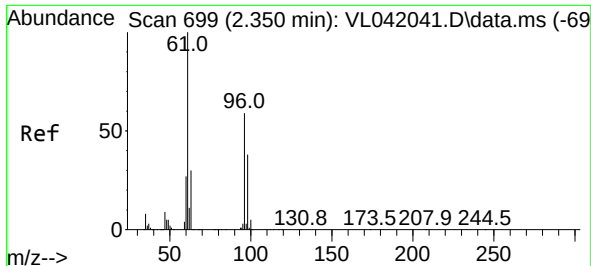
Tgt Ion: 45 Resp: 14430
Ion Ratio Lower Upper
45 100
58 558.6 35.3 52.9#



#20
Methylene Chloride
Concen: 0.429 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 84 Resp: 2447
Ion Ratio Lower Upper
84 100
49 112.9 130.0 195.0#
51 26.9 37.4 56.0#
86 55.7 48.6 72.8

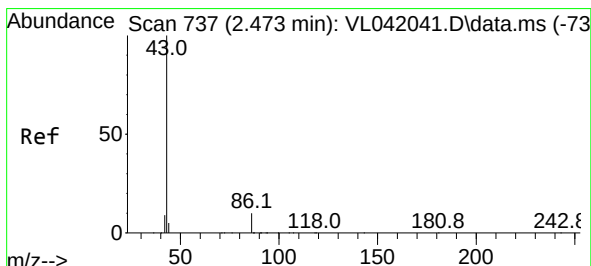
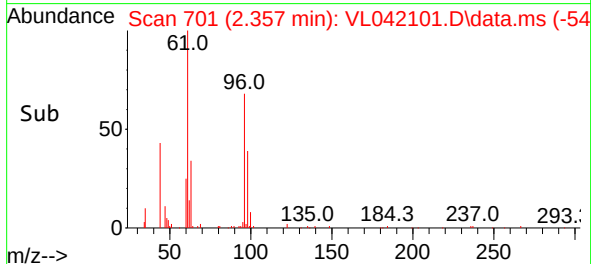
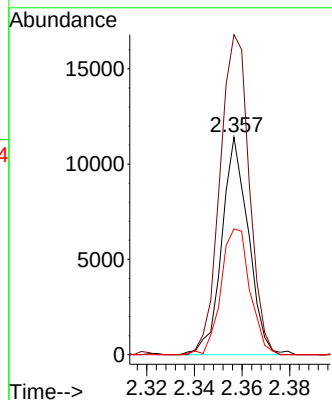
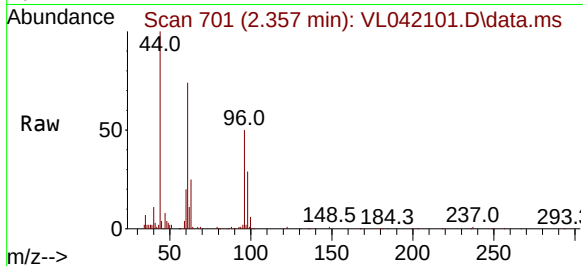




#22
trans-1,2-Dichloroethene
Concen: 1.177 ppbv
RT: 2.357 min Scan# 701
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

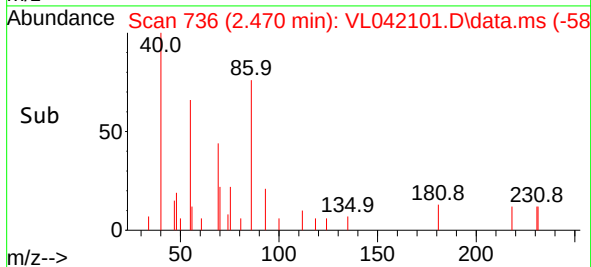
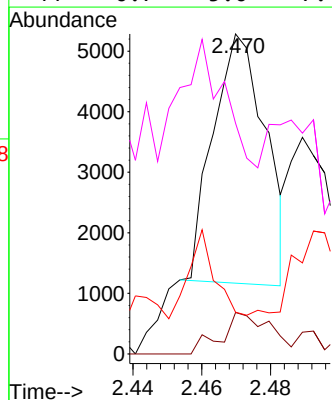
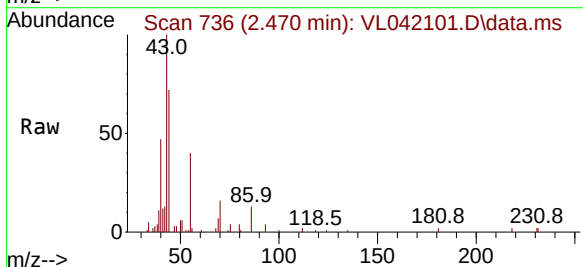
Instrument :
MSVOA_L
ClientSampleId :
SV3

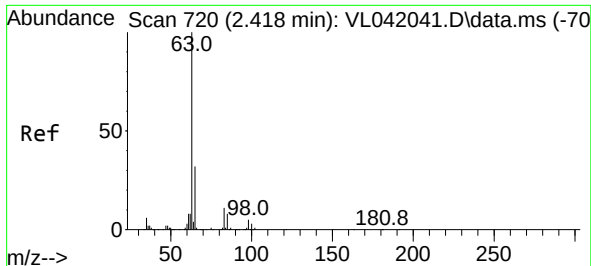
Tgt Ion: 96 Resp: 8808
Ion Ratio Lower Upper
96 100
61 147.2 136.6 205.0
98 57.9 51.8 77.6



#23
Vinyl Acetate
Concen: 0.409 ppbv
RT: 2.470 min Scan# 736
Delta R.T. -0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 43 Resp: 4340
Ion Ratio Lower Upper
43 100
86 16.9 7.0 10.4#
42 0.0 7.6 11.4#
44 0.7 5.0 7.4#

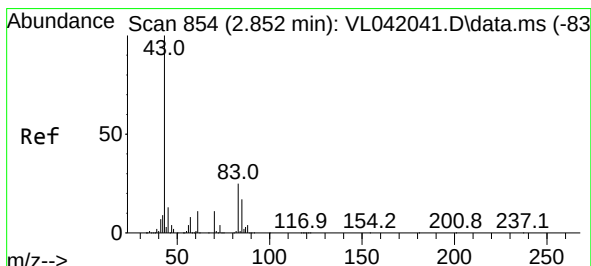
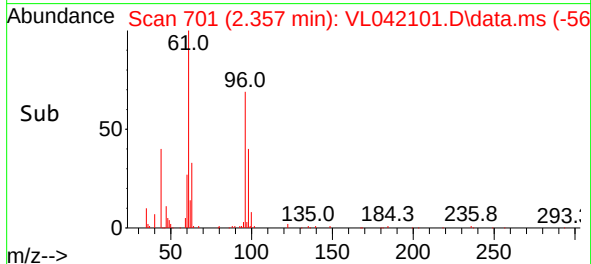
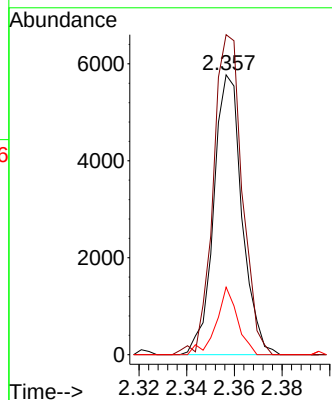
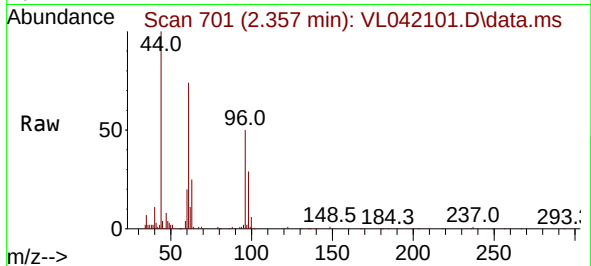




#24
1,1-Dichloroethane
Concen: 0.342 ppbv
RT: 2.357 min Scan# 701
Delta R.T. -0.062 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

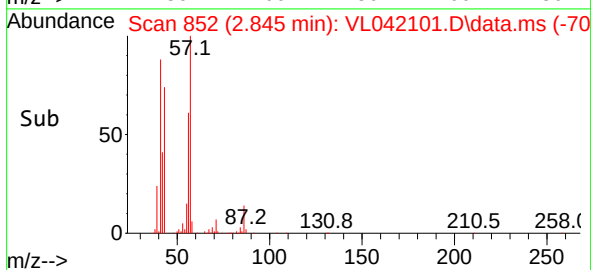
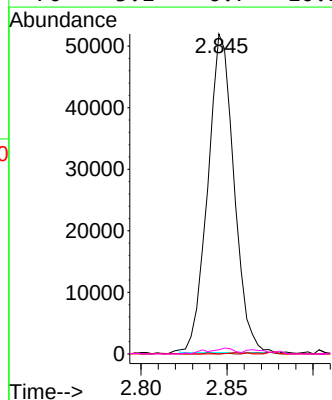
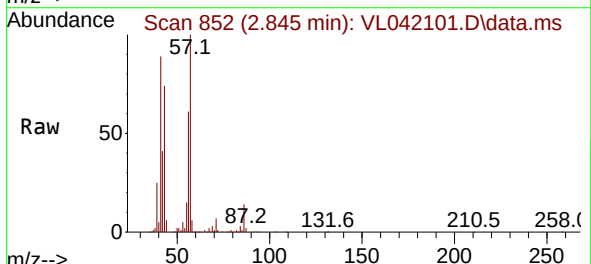
Instrument :
MSVOA_L
ClientSampleId :
SV3

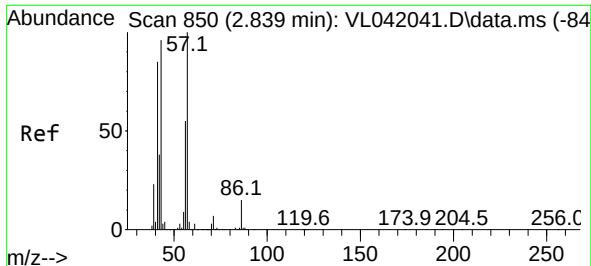
Tgt Ion: 63 Resp: 4768
Ion Ratio Lower Upper
63 100
98 114.4 2.4 7.2#
100 24.1 1.7 5.0#



#25
Ethyl Acetate
Concen: 0.904 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.007 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 43 Resp: 54594
Ion Ratio Lower Upper
43 100
45 0.5 8.1 12.1#
61 0.0 7.2 10.8#
70 3.1 6.7 10.1#

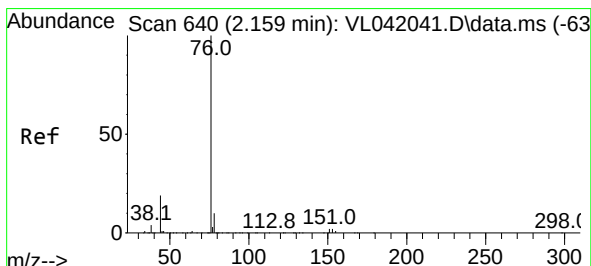
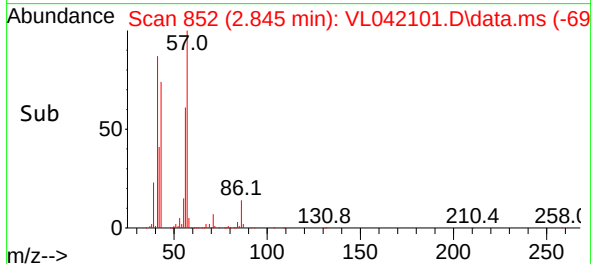
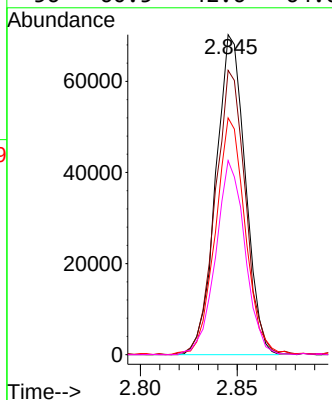
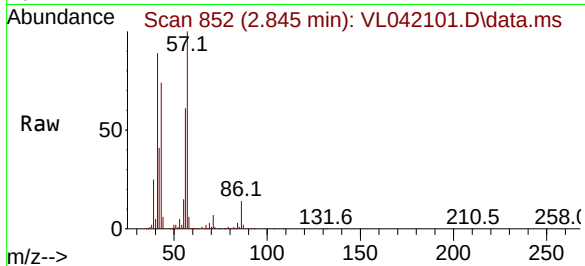




#26
Hexane
Concen: 3.049 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

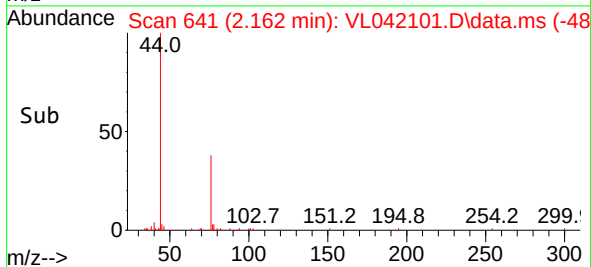
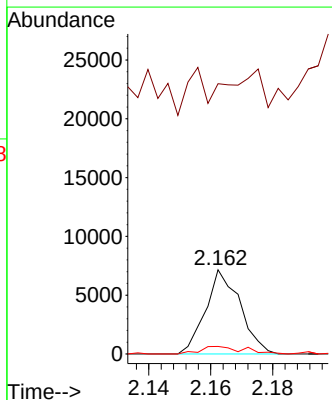
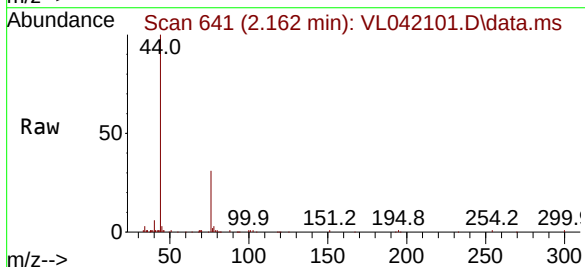
Instrument :
MSVOA_L
ClientSampleId :
SV3

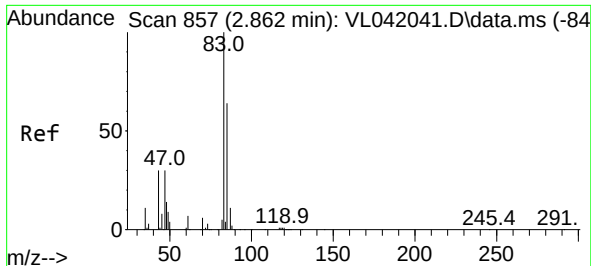
Tgt Ion: 57 Resp: 74480
Ion Ratio Lower Upper
57 100
41 91.5 70.6 106.0
43 74.2 199.4 299.0#
56 60.5 42.6 64.0



#27
Carbon Disulfide
Concen: 0.334 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 76 Resp: 5536
Ion Ratio Lower Upper
76 100
44 1841.0 16.2 24.2#
78 12.5 9.4 14.0





#29

Chloroform

Concen: 1.526 ppbv

RT: 2.868 min Scan# 857

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

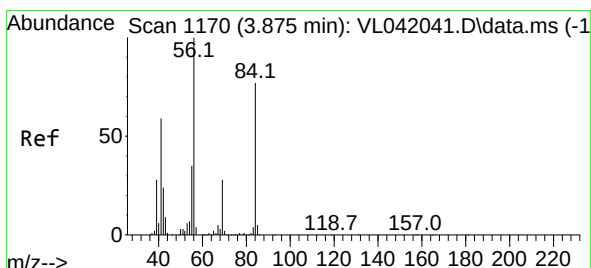
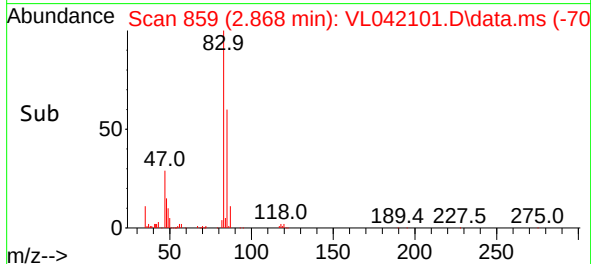
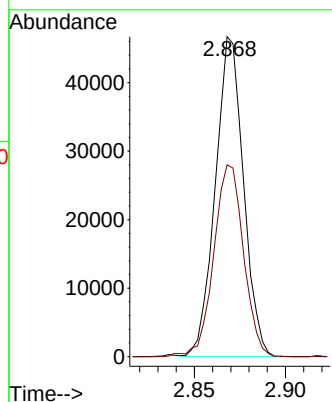
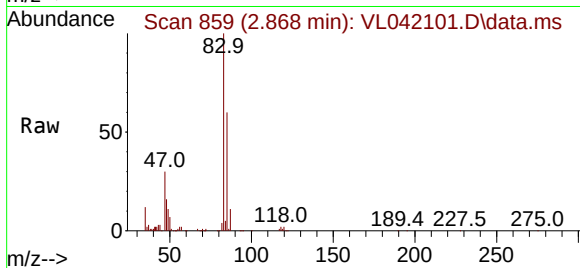
SV3

Tgt Ion: 83 Resp: 50161

Ion Ratio Lower Upper

83 100

85 59.8 51.2 76.8



#30

Cyclohexane

Concen: 0.036 ppbv

RT: 3.878 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

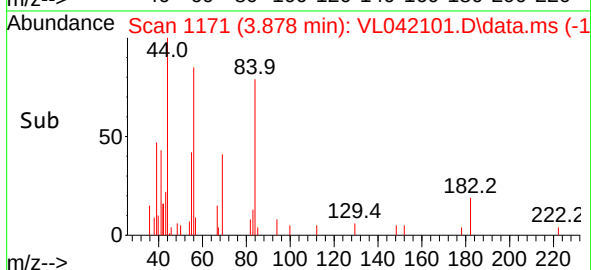
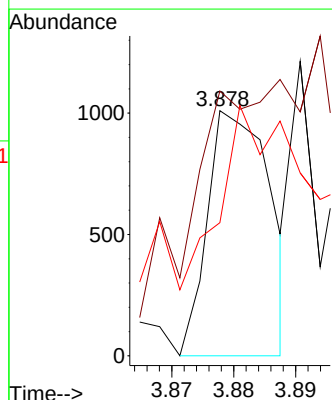
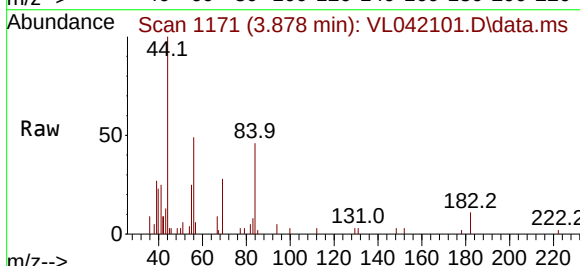
Tgt Ion: 84 Resp: 712

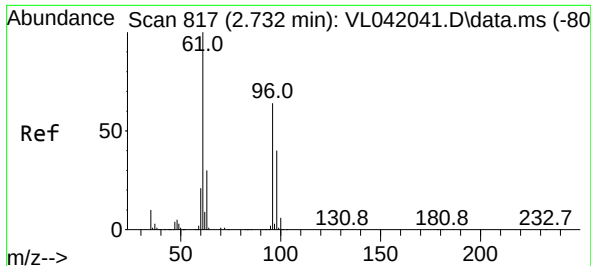
Ion Ratio Lower Upper

84 100

56 0.0 101.5 152.3#

41 316.2 62.6 93.8#

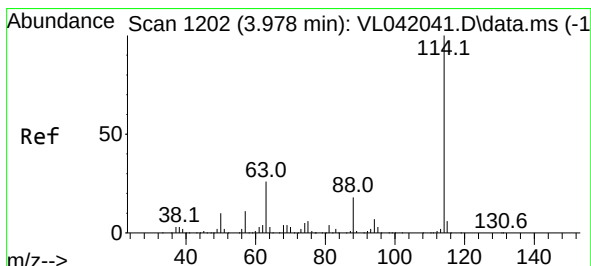
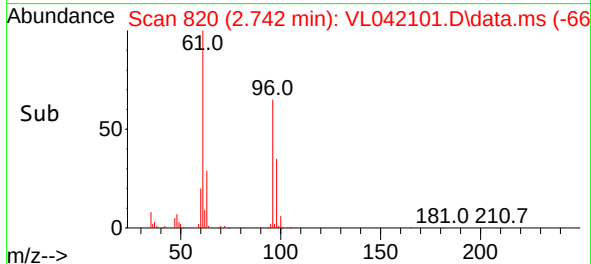
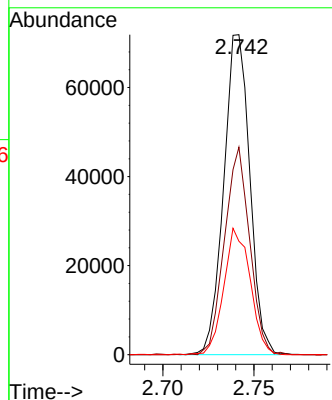
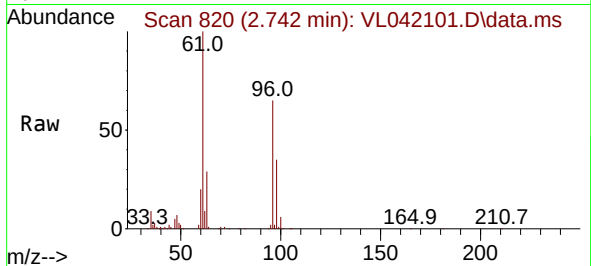




#31
 cis-1,2-Dichloroethene
 Concen: 3.100 ppbv
 RT: 2.742 min Scan# 817
 Delta R.T. 0.010 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

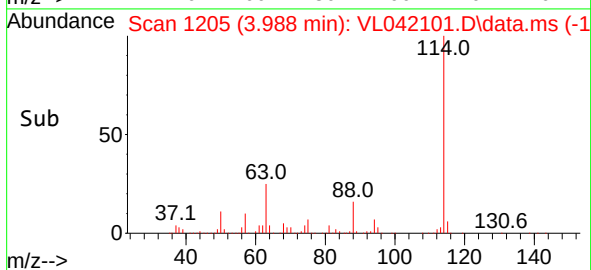
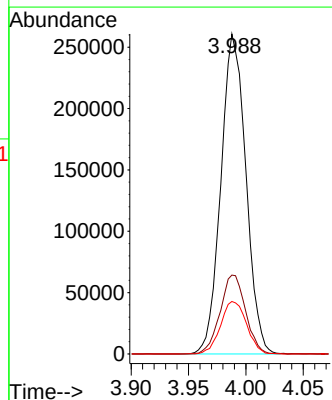
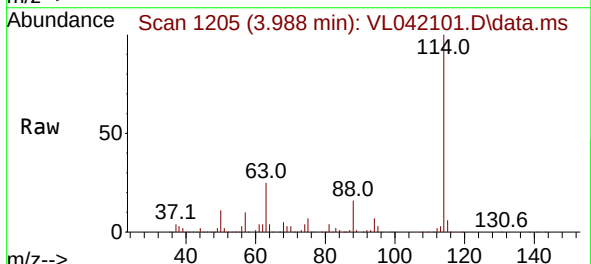
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

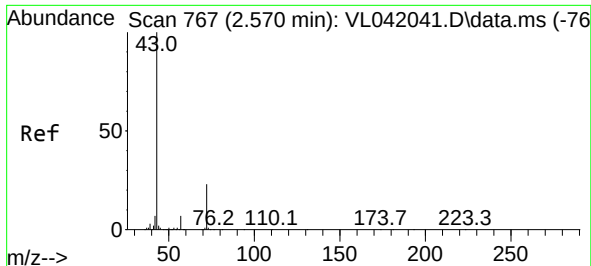
Tgt Ion: 61 Resp: 71664
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.5 77.3
 98 35.4 32.0 48.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.988 min Scan# 1205
 Delta R.T. 0.010 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Tgt Ion: 114 Resp: 395541
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.1 30.1
 88 17.1 14.3 21.5

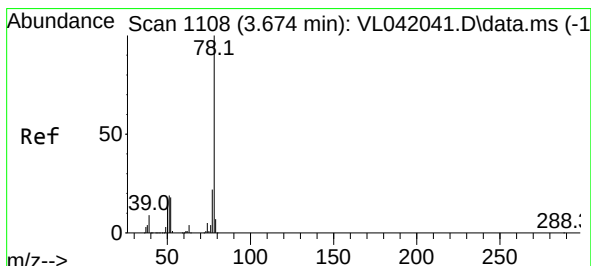
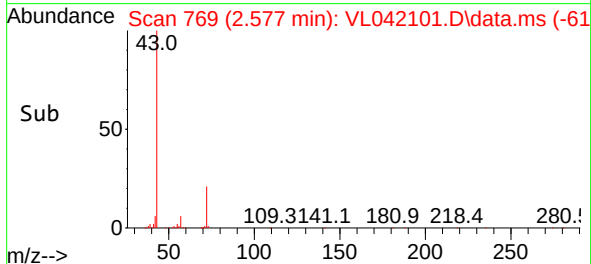
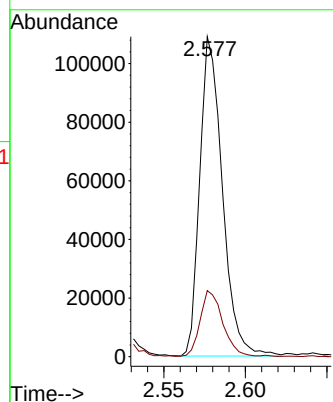
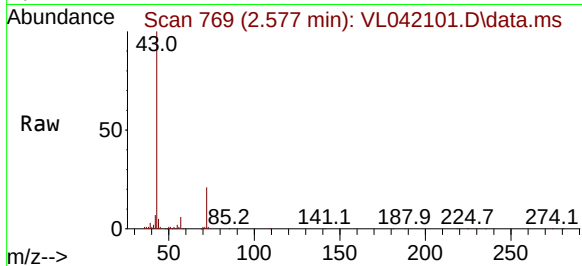




#34
2-Butanone
Concen: 3.411 ppbv
RT: 2.577 min Scan# 767
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

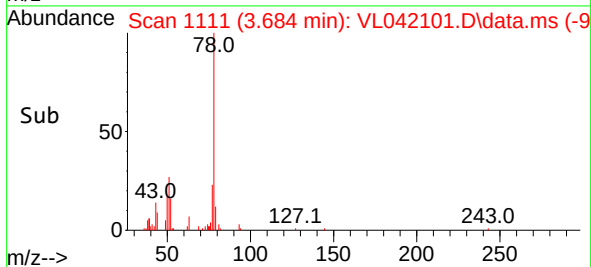
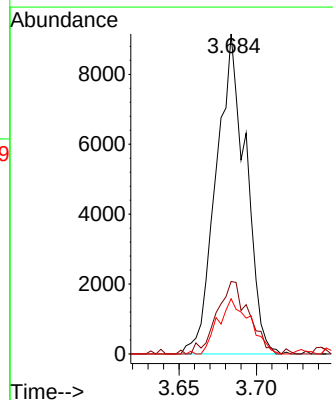
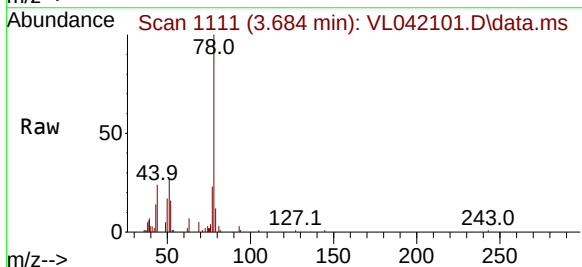
Instrument :
MSVOA_L
ClientSampleId :
SV3

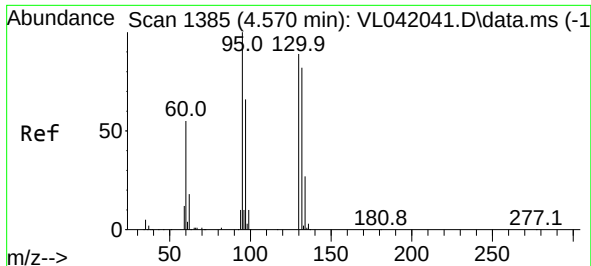
Tgt Ion: 43 Resp: 105117
Ion Ratio Lower Upper
43 100
72 21.2 18.5 27.7



#36
Benzene
Concen: 0.295 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 78 Resp: 12204
Ion Ratio Lower Upper
78 100
77 22.7 17.7 26.5
50 17.3 13.9 20.9



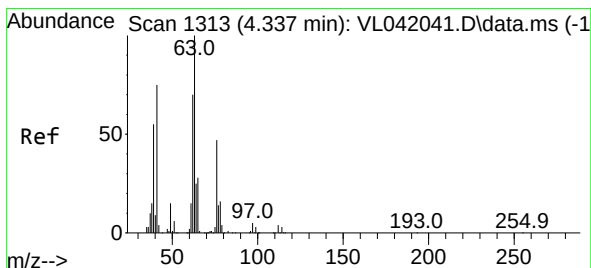
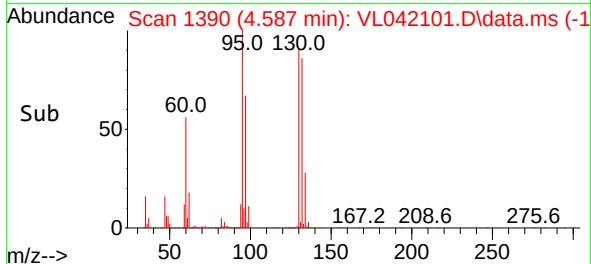
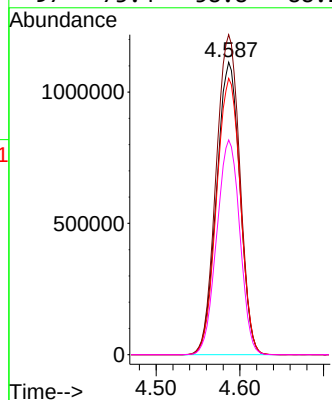
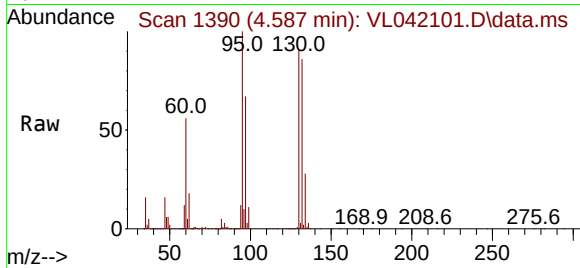


#38
 Trichloroethene
 Concen: 127.831 ppbv
 RT: 4.587 min Scan# 1390
 Delta R.T. 0.016 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tgt Ion:130 Resp: 2161401

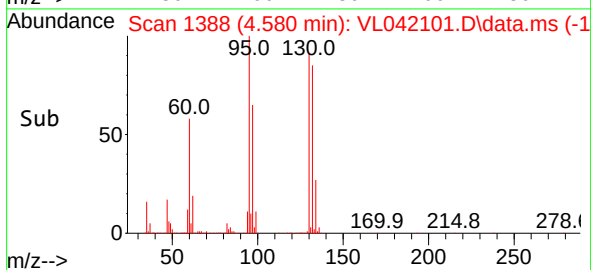
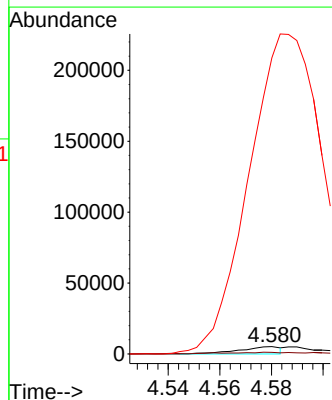
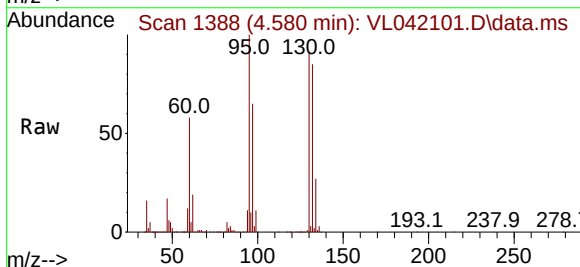
Ion	Ratio	Lower	Upper
130	100		
95	109.4	89.5	134.3
132	94.5	73.8	110.6
97	73.4	58.8	88.2

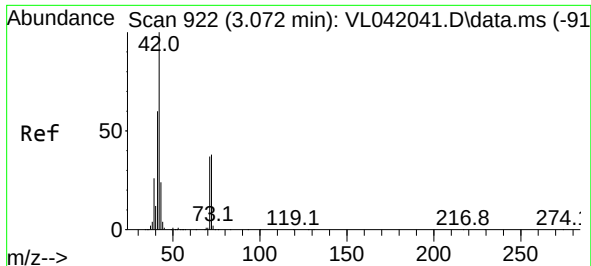


#39
 1,2-Dichloropropane
 Concen: 0.370 ppbv
 RT: 4.580 min Scan# 1388
 Delta R.T. 0.243 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Tgt Ion: 63 Resp: 5818

Ion	Ratio	Lower	Upper
63	100		
41	16.5	60.1	90.1#
62	4019.8	55.8	83.8#





#41

Tetrahydrofuran

Concen: 0.508 ppbv

RT: 3.088 min Scan# 91

Delta R.T. 0.016 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

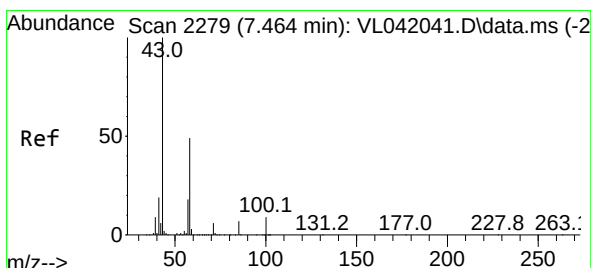
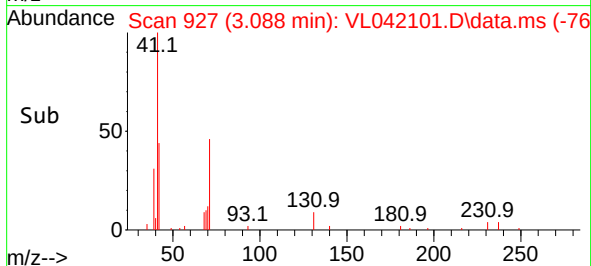
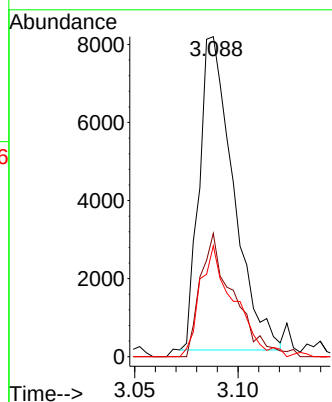
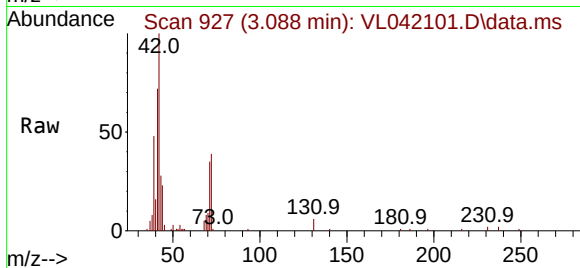
Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:	42	Resp:	9252
Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.2	45.2
71	35.6	28.2	42.4



#51

2-Hexanone

Concen: 0.554 ppbv

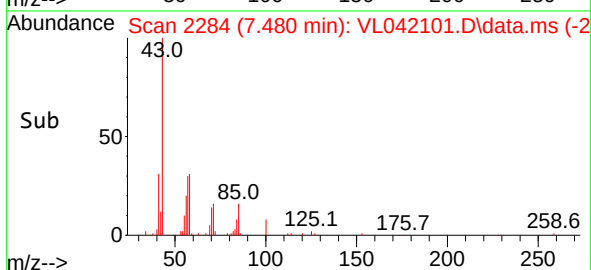
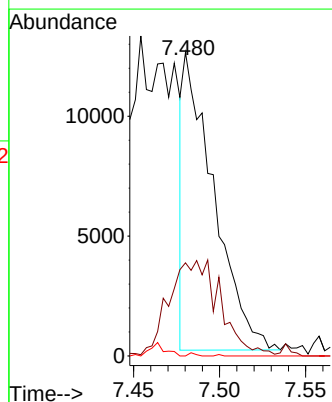
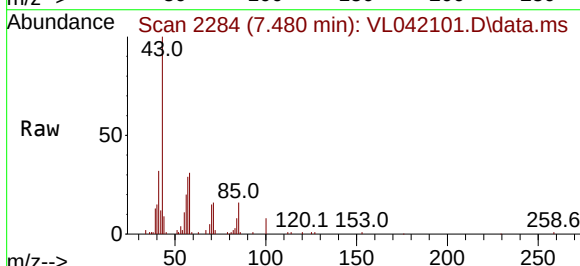
RT: 7.480 min Scan# 2284

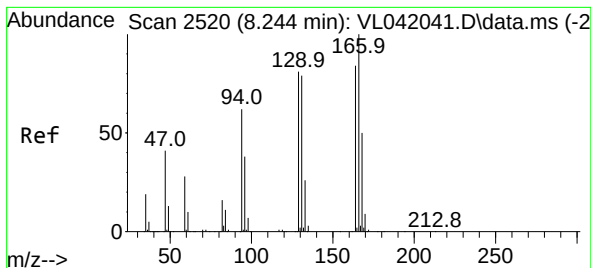
Delta R.T. 0.016 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Tgt Ion:	43	Resp:	15195
Ion	Ratio	Lower	Upper
43	100		
58	55.6	39.0	58.6
98	0.0	0.1	0.1





#52

Tetrachloroethene

Concen: 1269.937 ppbv

RT: 8.377 min Scan# 2127

Delta R.T. 0.133 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:164 Resp:18001705

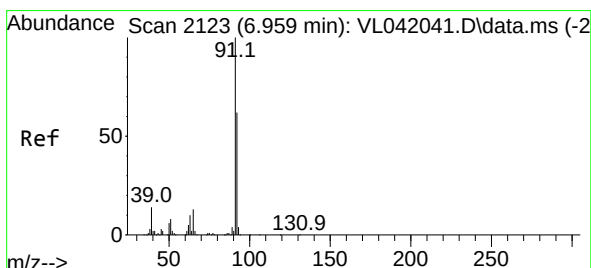
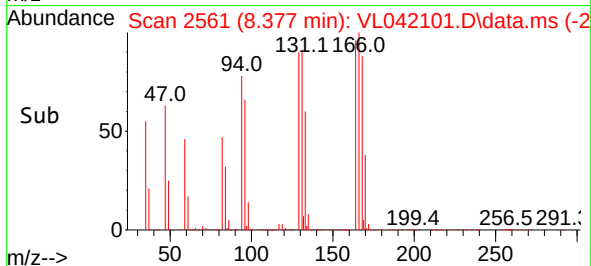
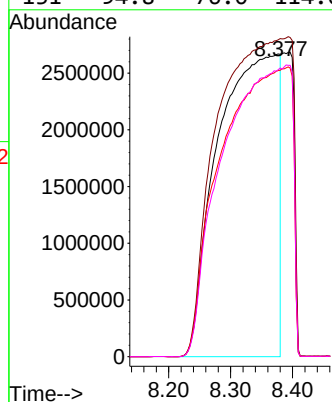
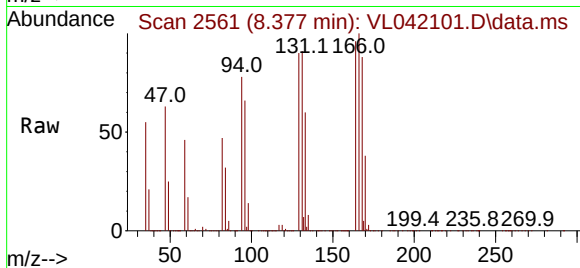
Ion Ratio Lower Upper

164 100

166 104.6 95.7 143.5

129 94.5 77.1 115.7

131 94.8 76.0 114.0



#53

Toluene

Concen: 1.116 ppbv

RT: 6.972 min Scan# 2127

Delta R.T. 0.013 min

Lab File: VL042101.D

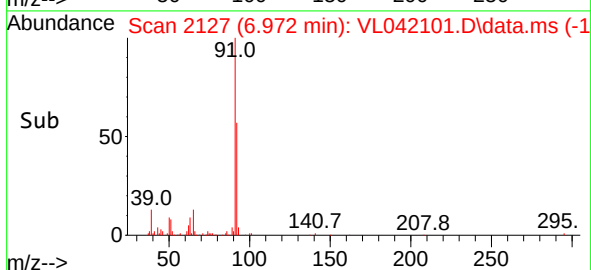
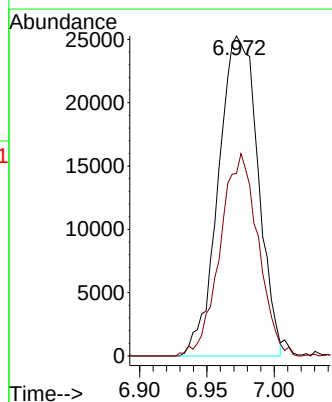
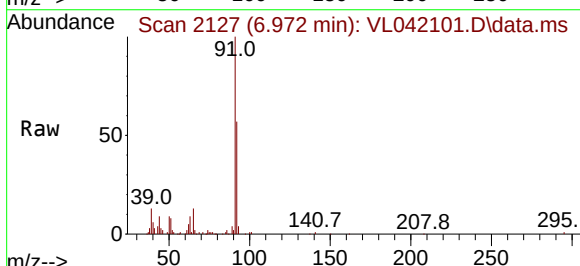
Acq: 05 Mar 2025 13:16

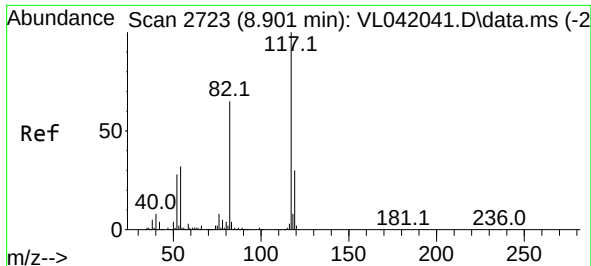
Tgt Ion: 91 Resp: 51659

Ion Ratio Lower Upper

91 100

92 60.9 49.0 73.6

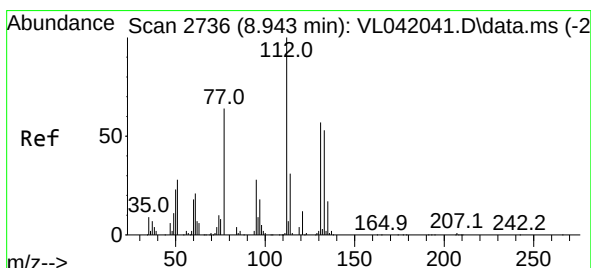
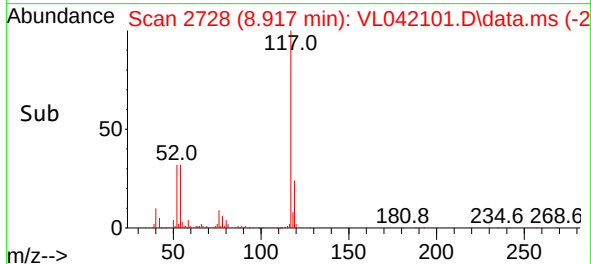
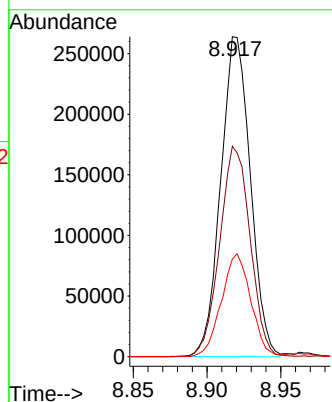
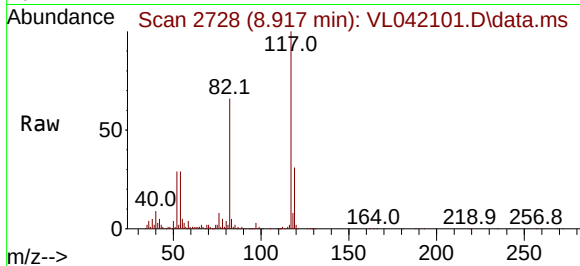




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

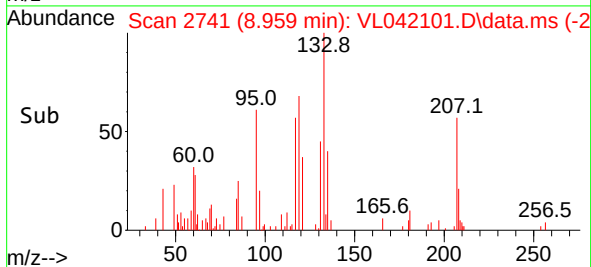
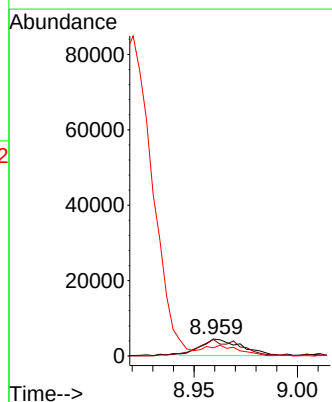
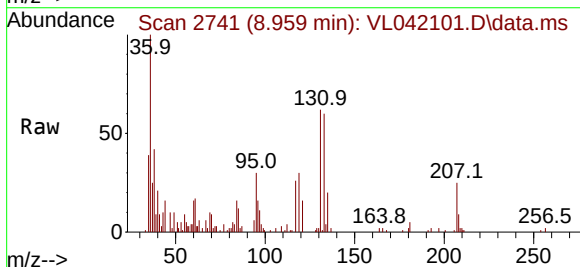
Instrument :
MSVOA_L
ClientSampleId :
SV3

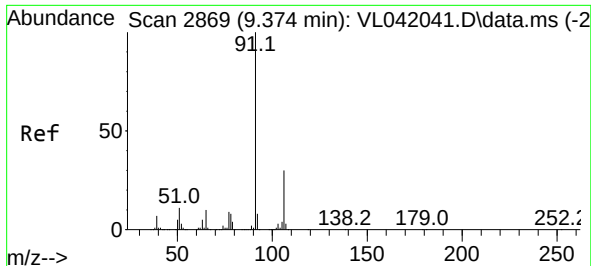
Tgt Ion:117 Resp: 368402
Ion Ratio Lower Upper
117 100
82 67.9 55.0 82.6
119 32.9 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.290 ppbv
RT: 8.959 min Scan# 2741
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion:131 Resp: 6040
Ion Ratio Lower Upper
131 100
133 109.4 75.8 113.8
119 0.0 52.1 78.1#





#58

Ethyl Benzene

Concen: 0.399 ppbv

RT: 9.387 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

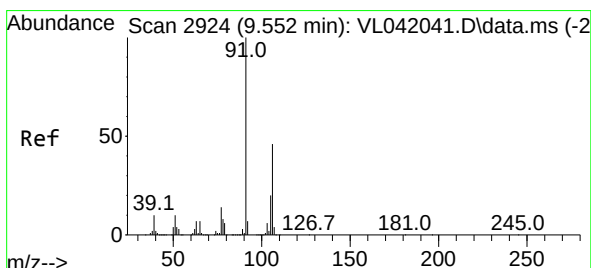
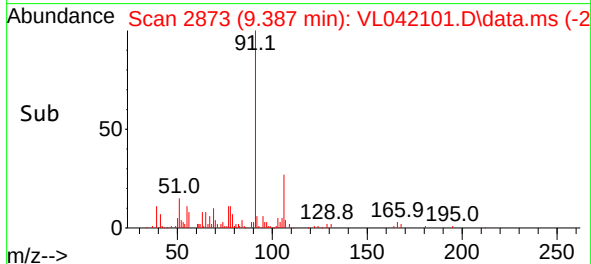
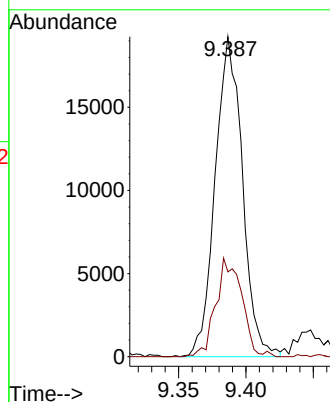
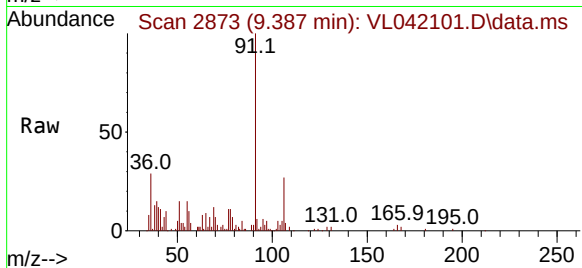
SV3

Tgt Ion: 91 Resp: 27047

Ion Ratio Lower Upper

91 100

106 26.5 24.2 36.2



#59

m/p-Xylene

Concen: 0.939 ppbv

RT: 9.561 min Scan# 2927

Delta R.T. 0.010 min

Lab File: VL042101.D

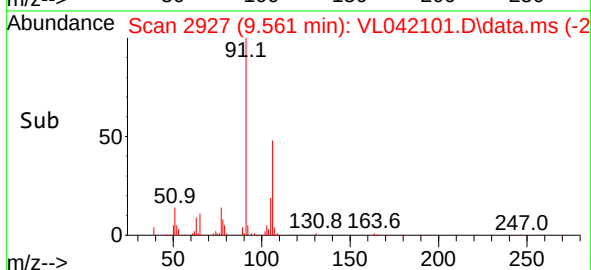
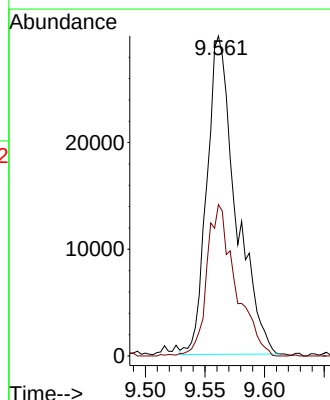
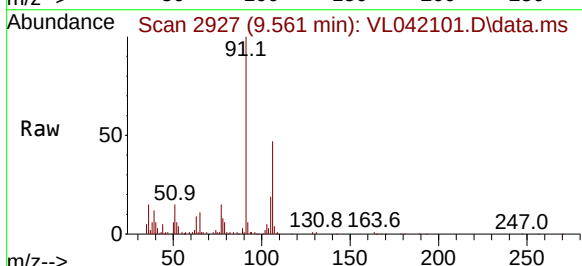
Acq: 05 Mar 2025 13:16

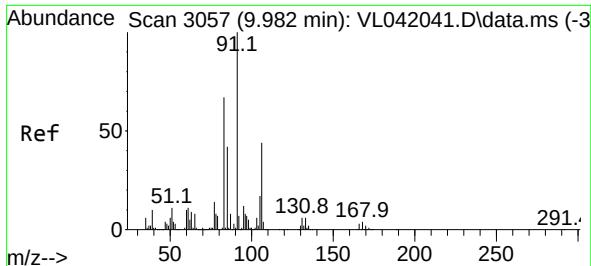
Tgt Ion: 91 Resp: 50697

Ion Ratio Lower Upper

91 100

106 47.1 0.0 0.0#

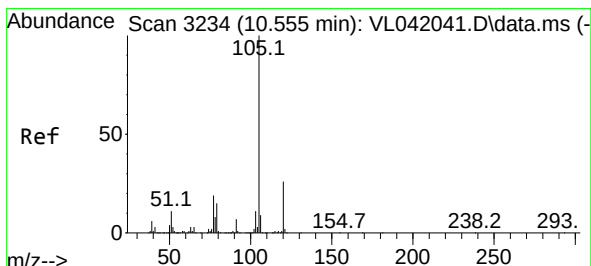
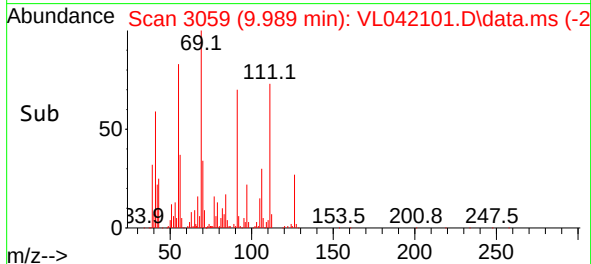
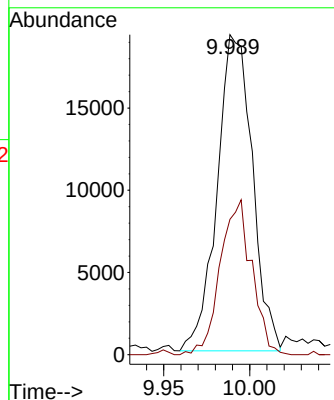
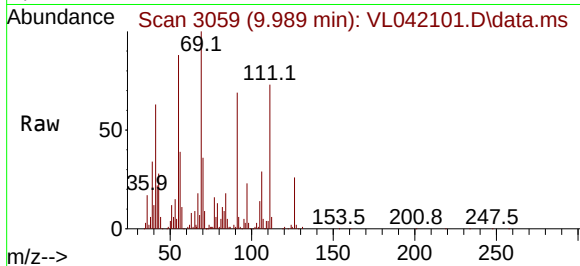




#60
o-Xylene
Concen: 0.506 ppbv
RT: 9.989 min Scan# 3059
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

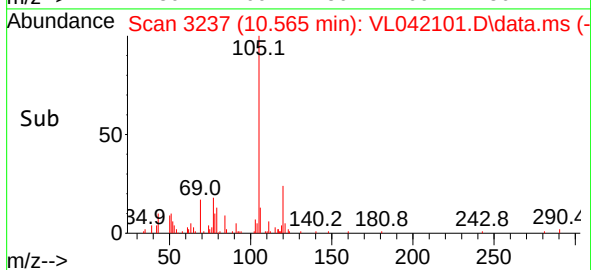
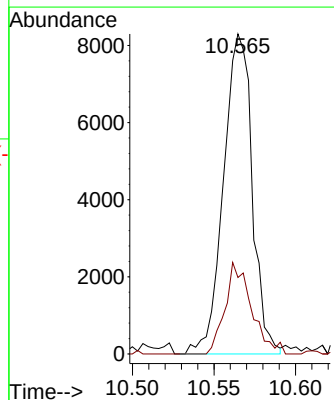
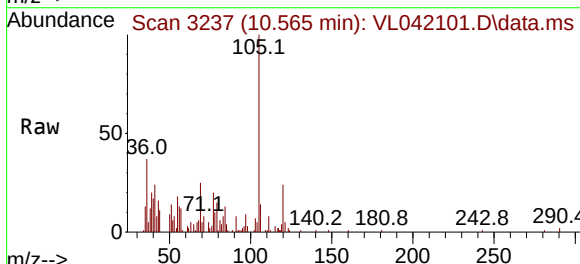
Instrument :
MSVOA_L
ClientSampleId :
SV3

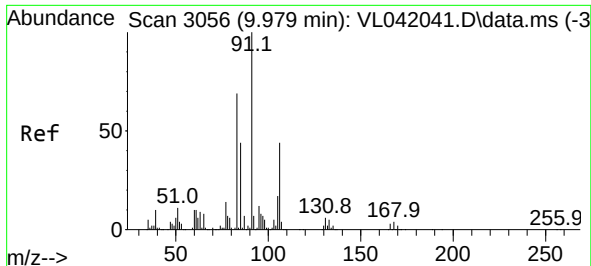
Tgt Ion: 91 Resp: 27448
Ion Ratio Lower Upper
91 100
106 44.2 22.3 66.8



#62
Isopropylbenzene
Concen: 0.125 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 105 Resp: 10157
Ion Ratio Lower Upper
105 100
120 26.3 20.7 31.1

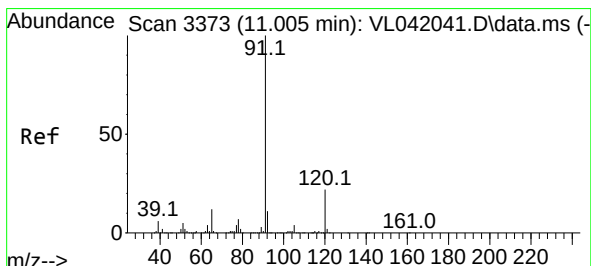
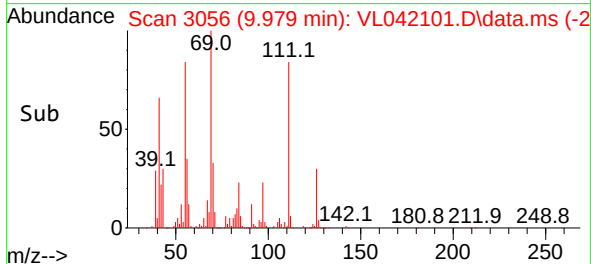
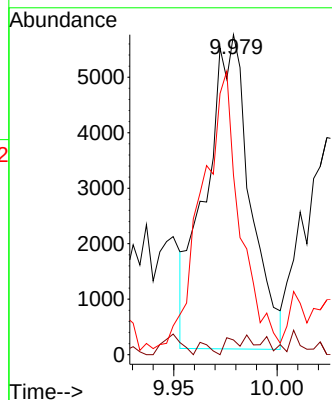
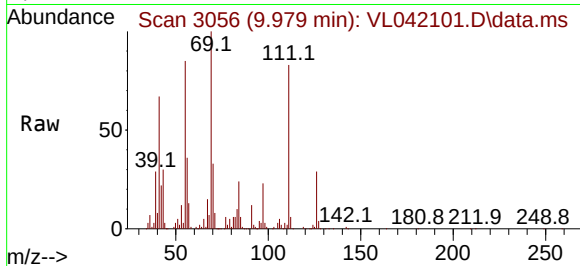




#63
1,1,2,2-Tetrachloroethane
Concen: 0.236 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.000 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

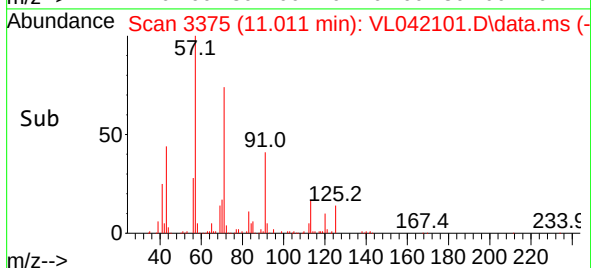
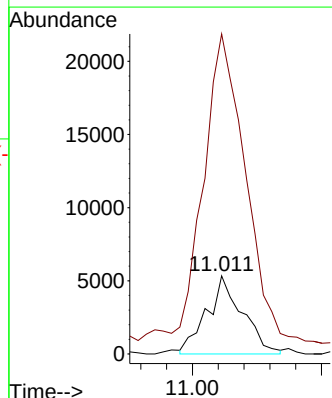
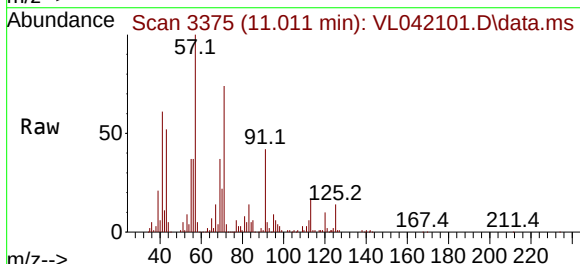
Instrument :
MSVOA_L
ClientSampleId :
SV3

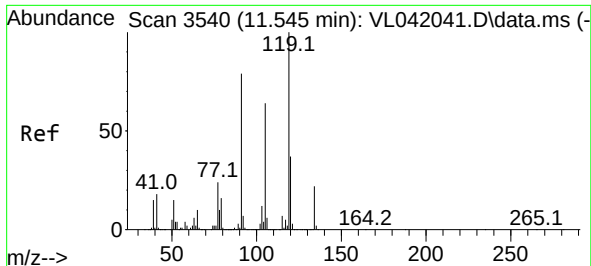
Tgt Ion: 83 Resp: 8435
Ion Ratio Lower Upper
83 100
131 6.2 4.5 13.7
85 77.2 32.1 96.3



#64
n-propylbenzene
Concen: 0.240 ppbv
RT: 11.011 min Scan# 3375
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 120 Resp: 5108
Ion Ratio Lower Upper
120 100
91 528.3 370.6 556.0

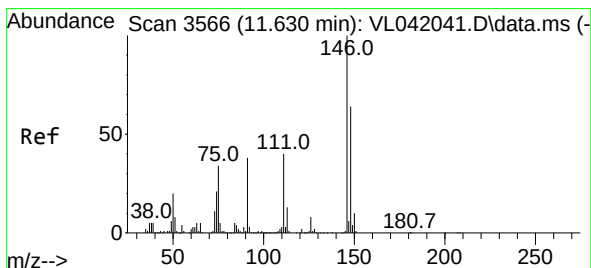
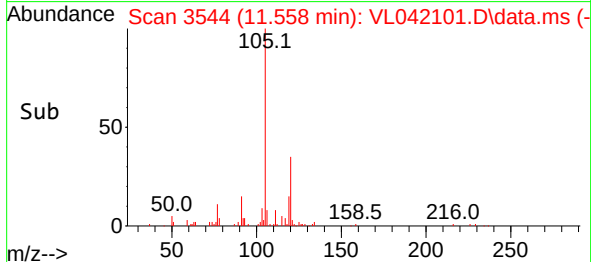
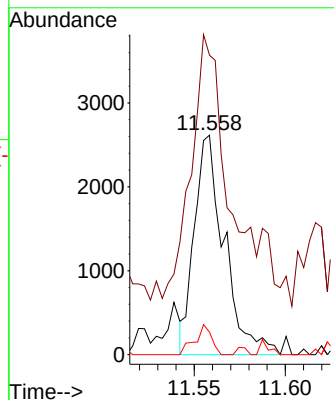
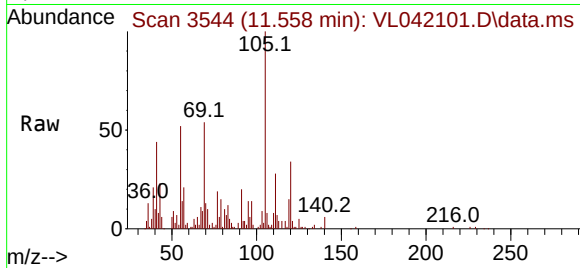




#65
tert-Butylbenzene
Concen: 0.040 ppbv
RT: 11.558 min Scan# 3119
Delta R.T. 0.013 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

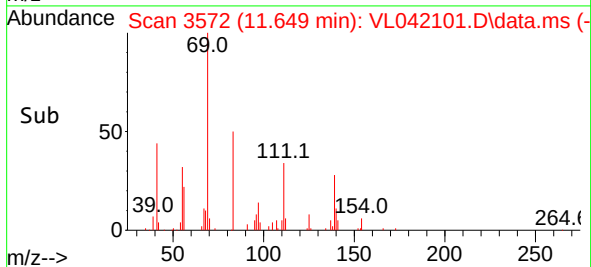
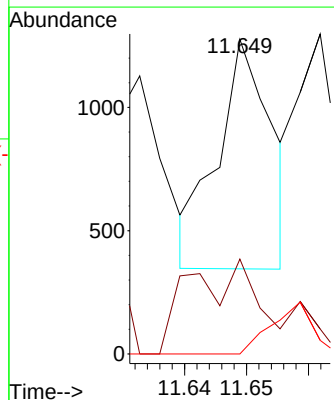
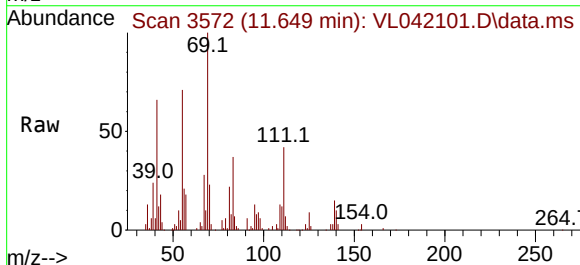
Instrument :
MSVOA_L
ClientSampleId :
SV3

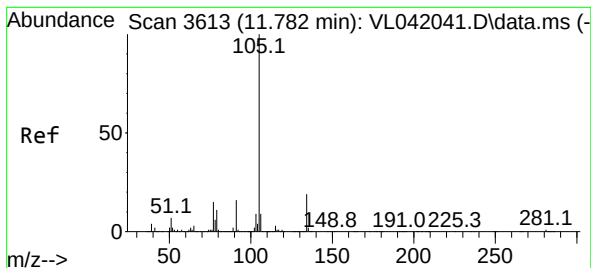
Tgt Ion:119 Resp: 2987
Ion Ratio Lower Upper
119 100
91 162.8 64.2 96.2#
134 8.7 17.4 26.2#



#66
Benzyl Chloride
Concen: 0.100 ppbv
RT: 11.649 min Scan# 3572
Delta R.T. 0.019 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 91 Resp: 564
Ion Ratio Lower Upper
91 100
126 0.0 14.5 21.7#
128 0.0 5.4 8.2#





#67

sec-Butylbenzene

Concen: 0.105 ppbv

RT: 11.788 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

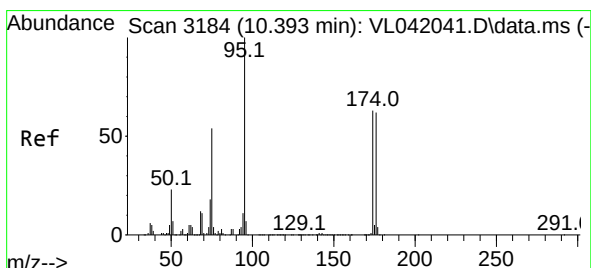
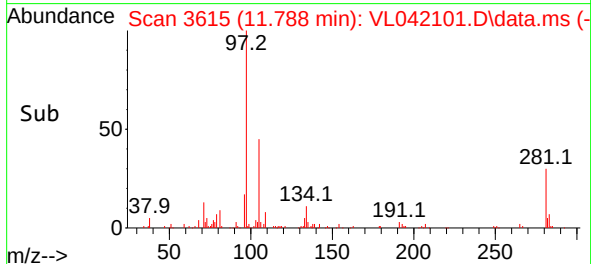
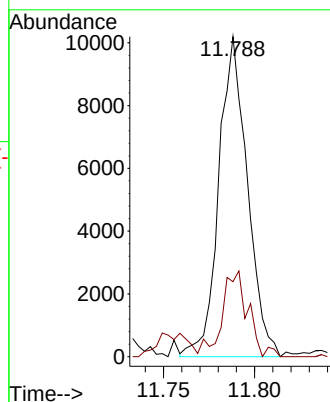
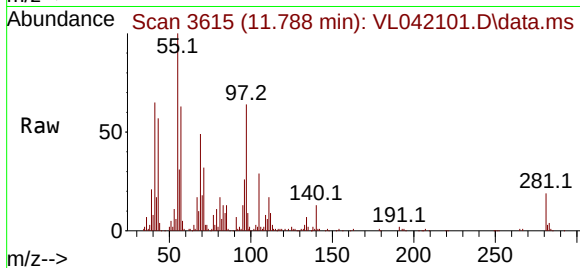
SV3

Tgt Ion:105 Resp: 11122

Ion Ratio Lower Upper

105 100

134 24.3 14.9 22.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.218 ppbv

RT: 10.403 min Scan# 3187

Delta R.T. 0.010 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

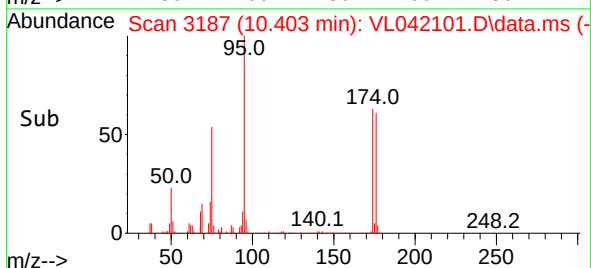
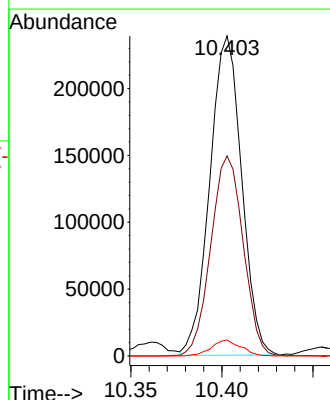
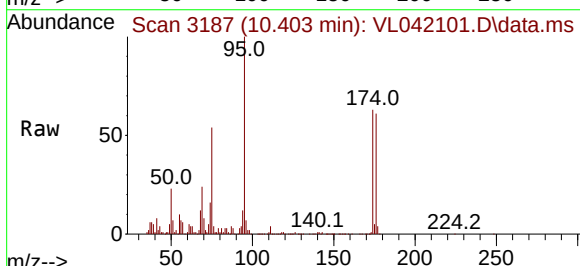
Tgt Ion: 95 Resp: 289610

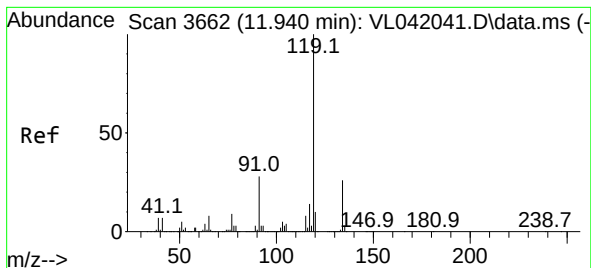
Ion Ratio Lower Upper

95 100

174 63.8 51.8 77.6

175 4.7 3.9 5.9





#69

p-Isopropyltoluene

Concen: 0.161 ppbv

RT: 11.947 min Scan# 3

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

SV3

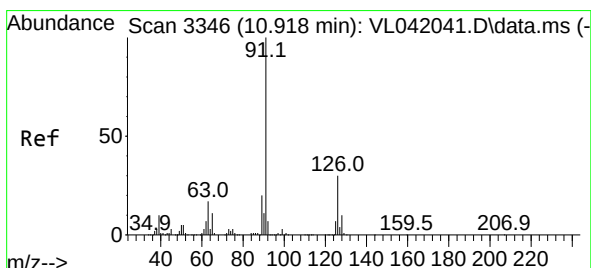
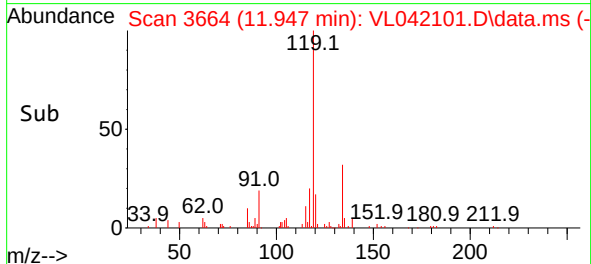
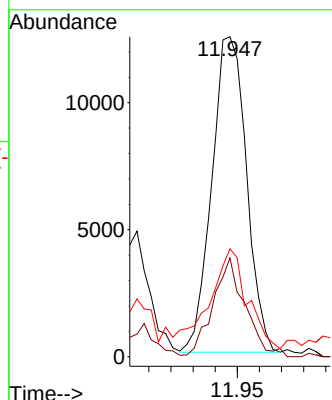
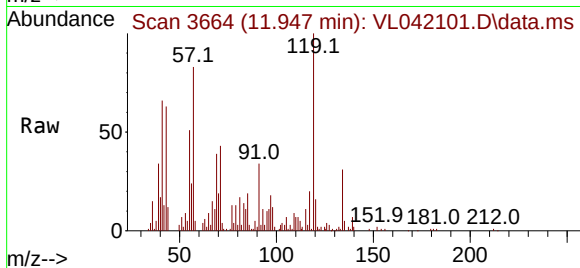
Tgt Ion:119 Resp: 13541

Ion Ratio Lower Upper

119 100

134 29.5 20.9 31.3

91 30.0 23.1 34.7



#71

2-Chlorotoluene

Concen: 0.395 ppbv

RT: 11.011 min Scan# 3375

Delta R.T. 0.094 min

Lab File: VL042101.D

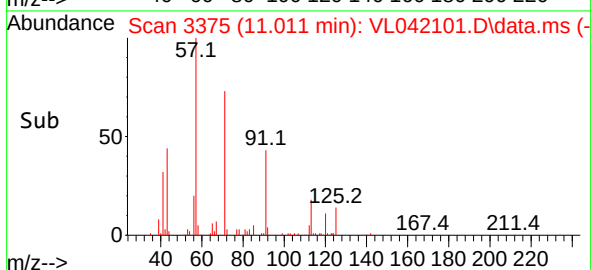
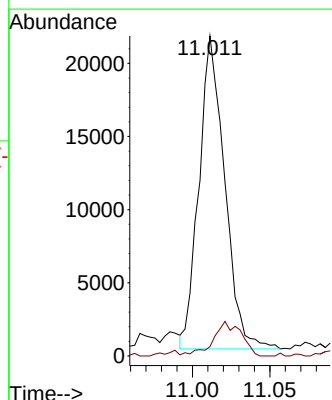
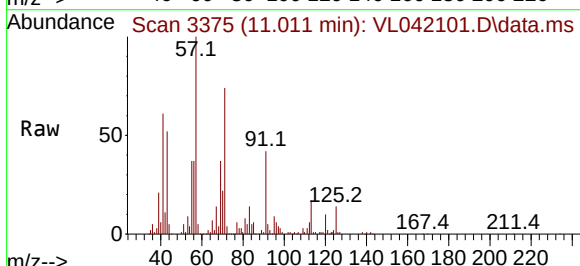
Acq: 05 Mar 2025 13:16

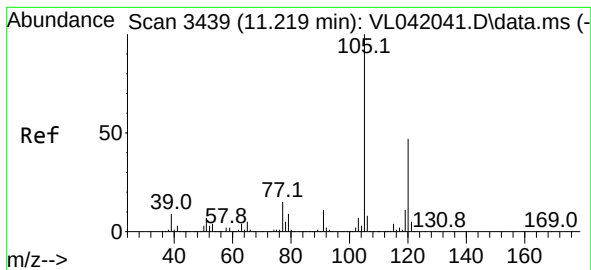
Tgt Ion: 91 Resp: 24748

Ion Ratio Lower Upper

91 100

126 13.4 11.9 47.5





#73

1,3,5-Trimethylbenzene

Concen: 0.212 ppbv

RT: 11.225 min Scan# 3441

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Instrument :

MSVOA_L

ClientSampleId :

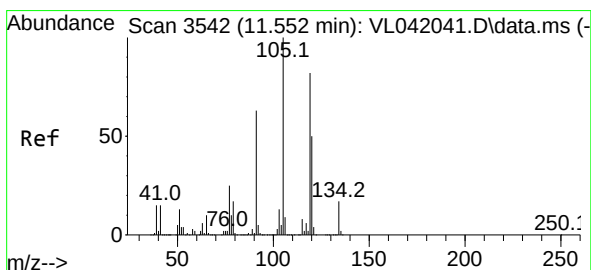
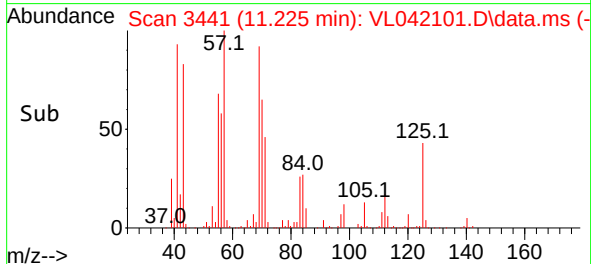
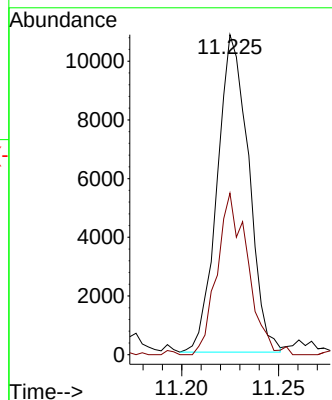
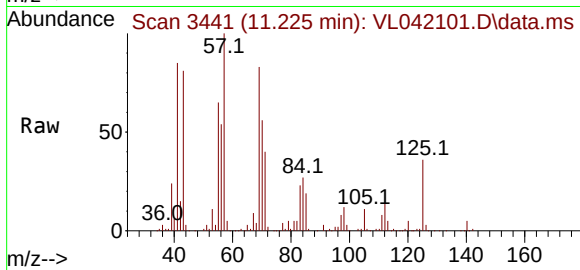
SV3

Tgt Ion:105 Resp: 12204

Ion Ratio Lower Upper

105 100

120 50.9 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 0.293 ppbv

RT: 11.558 min Scan# 3544

Delta R.T. 0.006 min

Lab File: VL042101.D

Acq: 05 Mar 2025 13:16

Tgt Ion:105 Resp: 18954

Ion Ratio Lower Upper

105 100

120 35.0 40.2 60.2#

91 15.7 51.4 77.2#

77 15.4 20.1 30.1#

