

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
 Data File : VL041641.D
 Acq On : 10 Oct 2024 14:07
 Operator : SY/MD
 Sample : P4339-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Oct 11 05:40:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

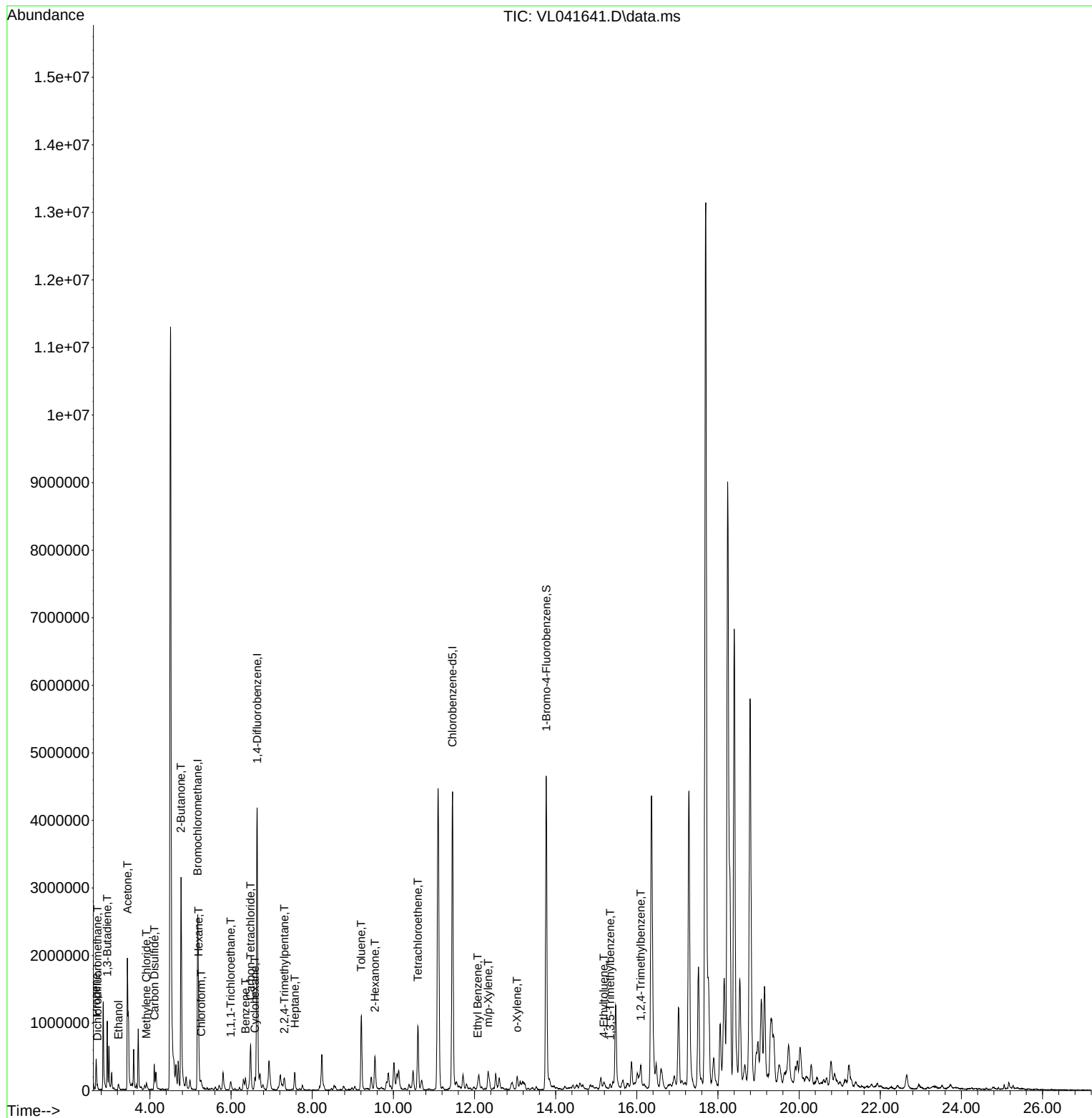
Internal Standards						
1) Bromochloromethane	5.176	49	1208742	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	3203069	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.459	117	2967134	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2300034	10.530	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	24231	0.139	ppbv	92
9) Propene	2.671	41	155064	2.507	ppbv	96
10) Heptane	7.568	43	105955	0.732	ppbv	94
13) Ethanol	3.224	45	98482	21.182	ppbv	95
15) Acetone	3.446	43	2159629	14.232	ppbv	91
16) 1,3-Butadiene	2.948	39	219218	2.970	ppbv #	20
20) Methylene Chloride	3.915	84	24577	0.431	ppbv	86
26) Hexane	5.198	57	264368	2.327	ppbv #	36
27) Carbon Disulfide	4.108	76	435521	3.606	ppbv	99
29) Chloroform	5.263	83	49257	0.265	ppbv	98
30) Cyclohexane	6.584	84	55689	0.636	ppbv #	83
32) 1,1,1-Trichloroethane	5.989	97	40191	0.243	ppbv	99
34) 2-Butanone	4.767	43	3890846	25.475	ppbv	99
35) Carbon Tetrachloride	6.481	117	388424	2.472	ppbv	98
36) Benzene	6.353	78	128995	0.580	ppbv	95
44) 2,2,4-Trimethylpentane	7.314	57	100066	0.260	ppbv #	14
51) 2-Hexanone	9.545	43	434961	2.438	ppbv #	99
52) Tetrachloroethene	10.603	164	234938	2.917	ppbv	97
53) Toluene	9.208	91	842532	3.568	ppbv	99
58) Ethyl Benzene	12.079	91	69794	0.220	ppbv	98
59) m/p-Xylene	12.336	91	272414	0.964	ppbv	94
60) o-Xylene	13.050	91	127019	0.469	ppbv	99
72) 4-Ethyltoluene	15.185	105	46066	0.145	ppbv #	84
73) 1,3,5-Trimethylbenzene	15.346	105	52408	0.187	ppbv	92
74) 1,2,4-Trimethylbenzene	16.098	105	238209	0.727	ppbv #	69

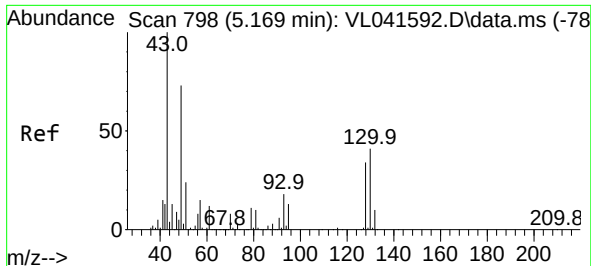
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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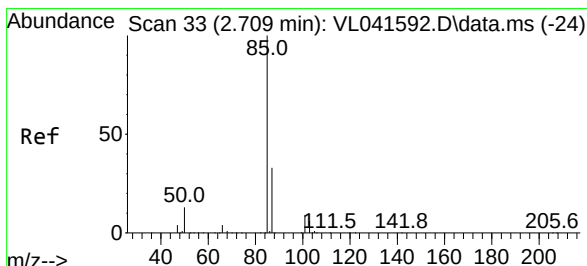
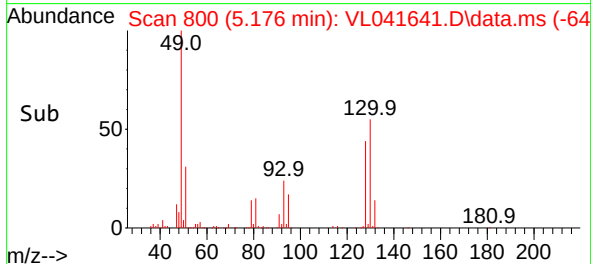
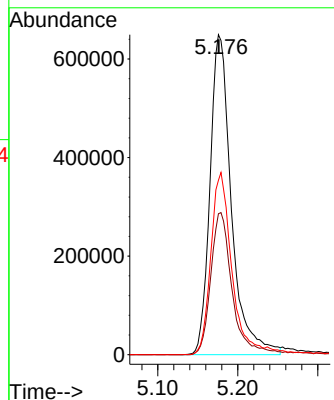
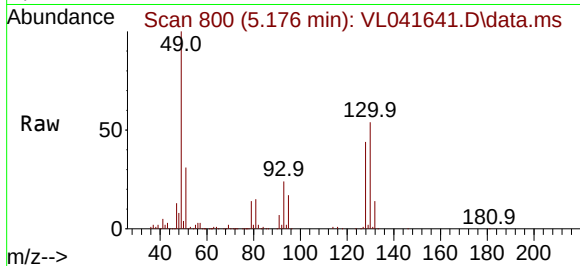




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

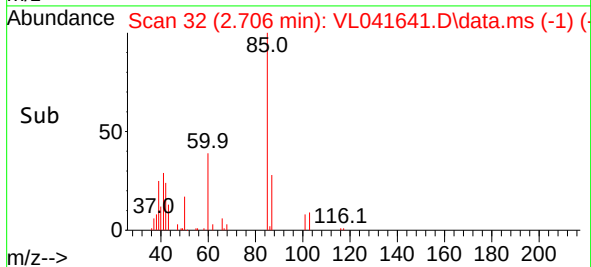
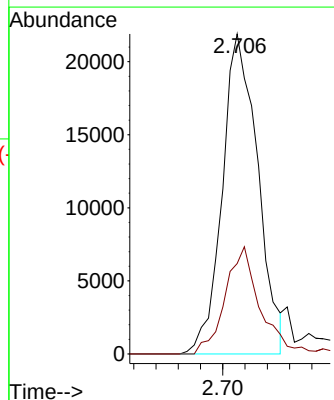
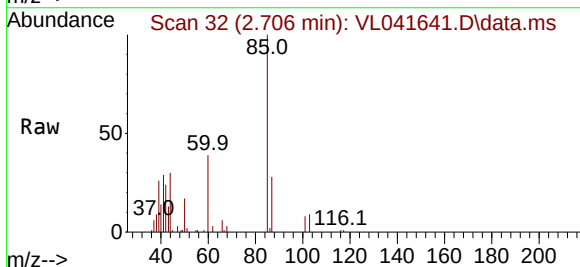
Instrument :
MSVOA_L
ClientSampleId :
SV2

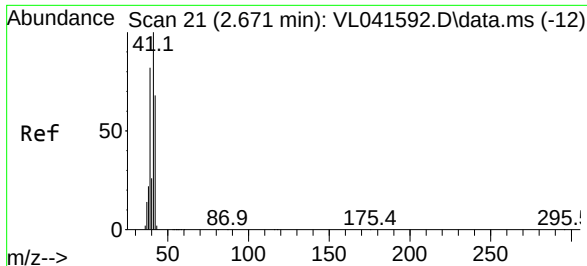
Tgt Ion: 49 Resp: 1208742
Ion Ratio Lower Upper
49 100
128 45.3 23.8 71.5
130 57.1 30.4 91.3



#2
Dichlorodifluoromethane
Concen: 0.139 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.003 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 85 Resp: 24231
Ion Ratio Lower Upper
85 100
87 28.2 26.3 39.5

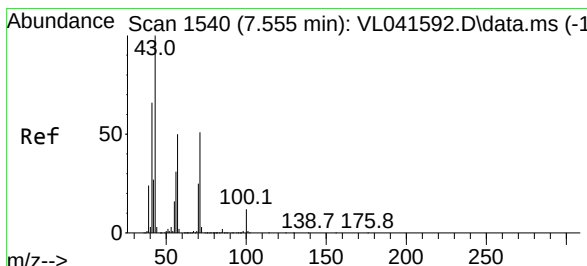
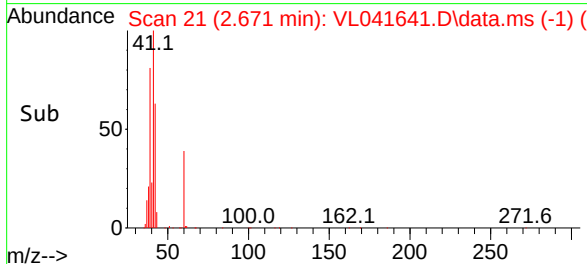
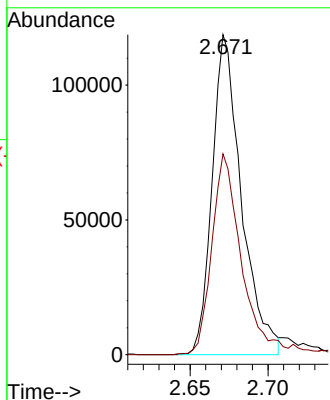
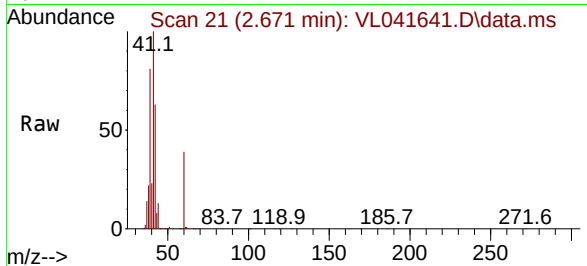




#9
 Propene
 Concen: 2.507 ppbv
 RT: 2.671 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

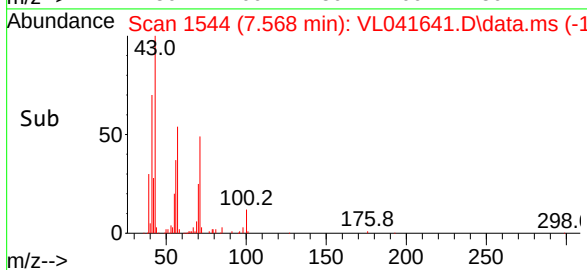
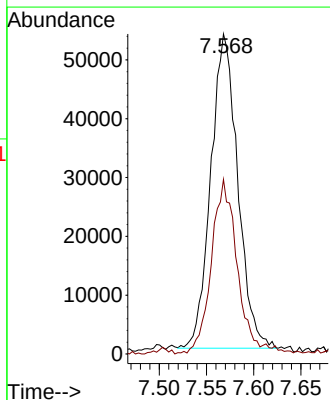
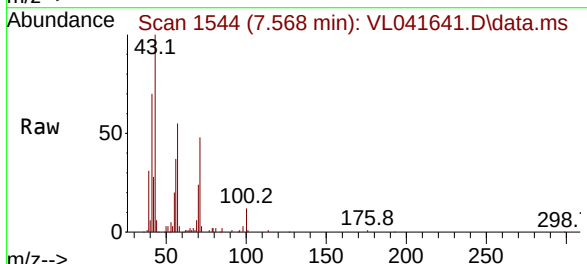
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

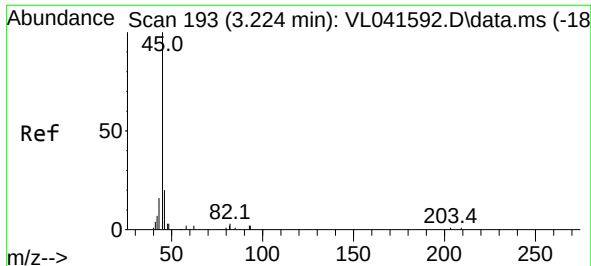
Tgt Ion: 41 Resp: 155064
 Ion Ratio Lower Upper
 41 100
 42 65.4 55.2 82.8



#10
 Heptane
 Concen: 0.732 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.013 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

Tgt Ion: 43 Resp: 105955
 Ion Ratio Lower Upper
 43 100
 57 53.9 39.8 59.8

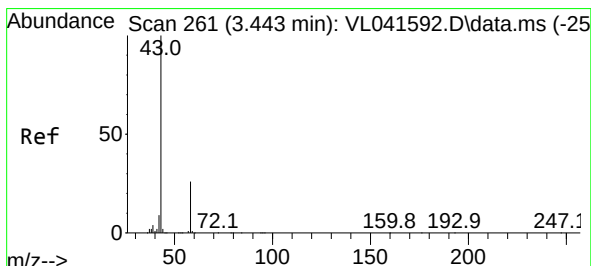
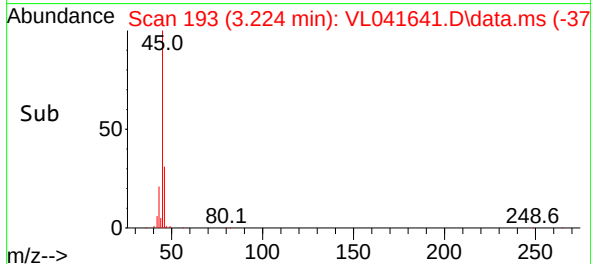
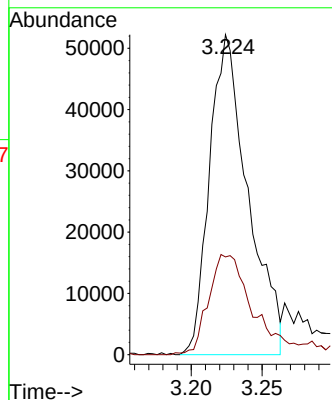
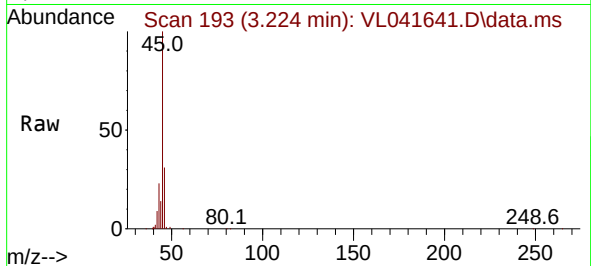




#13
 Ethanol
 Concen: 21.182 ppbv
 RT: 3.224 min Scan# 193
 Delta R.T. 0.000 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

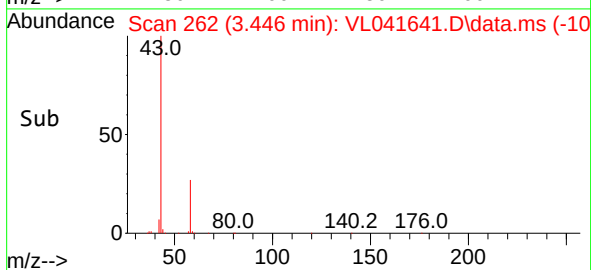
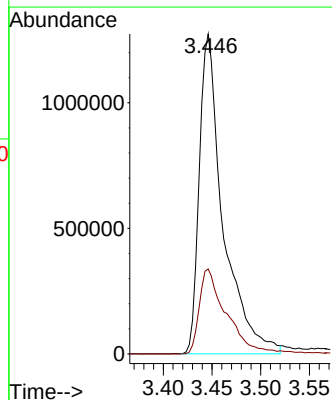
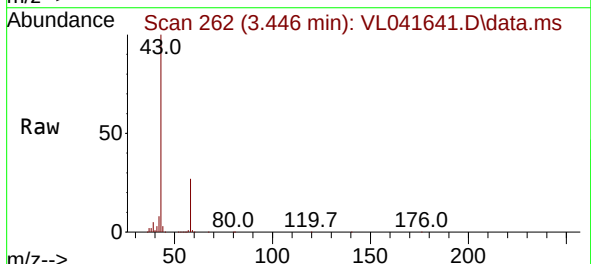
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

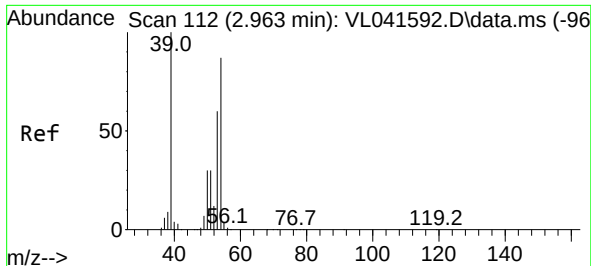
Tgt Ion: 45 Resp: 98482
 Ion Ratio Lower Upper
 45 100
 46 40.8 15.2 60.8



#15
 Acetone
 Concen: 14.232 ppbv
 RT: 3.446 min Scan# 262
 Delta R.T. 0.003 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

Tgt Ion: 43 Resp: 2159629
 Ion Ratio Lower Upper
 43 100
 58 31.3 21.5 32.3

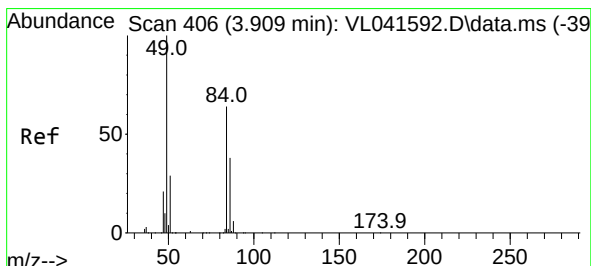
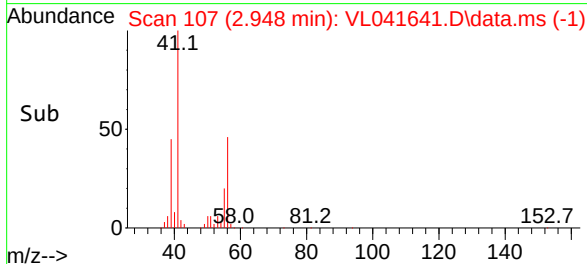
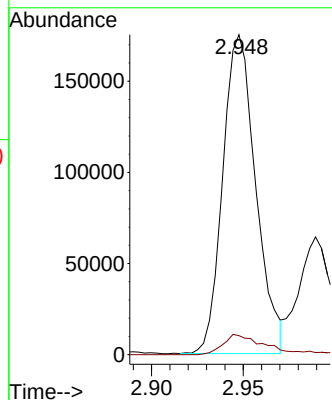
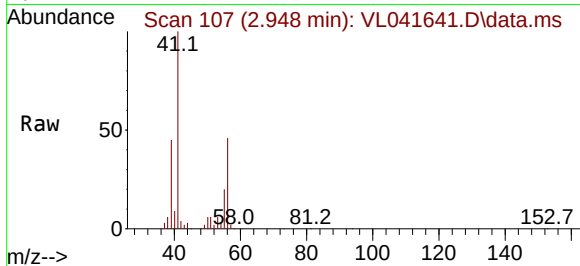




#16
1,3-Butadiene
Concen: 2.970 ppbv
RT: 2.948 min Scan# 107
Delta R.T. -0.016 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

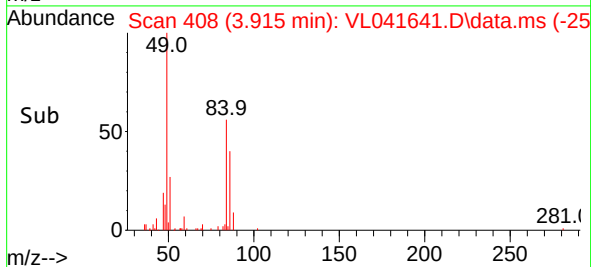
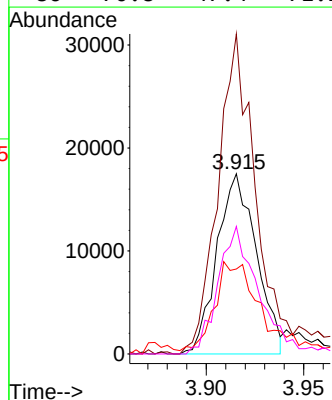
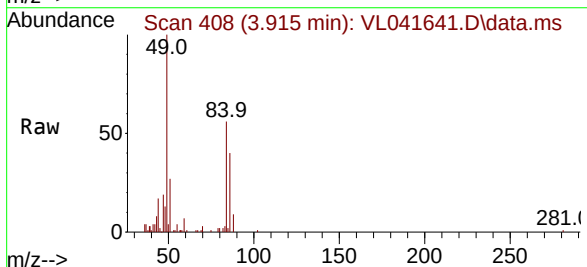
Instrument :
MSVOA_L
ClientSampleId :
SV2

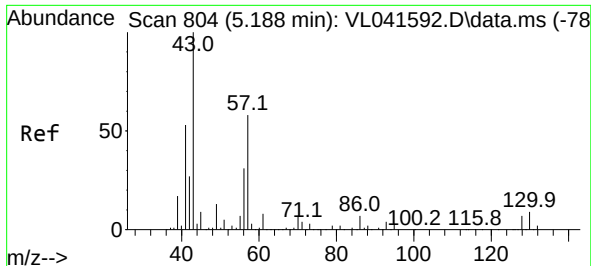
Tgt Ion: 39 Resp: 219218
Ion Ratio Lower Upper
39 100
54 8.6 62.9 94.3#



#20
Methylene Chloride
Concen: 0.431 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.007 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 84 Resp: 24577
Ion Ratio Lower Upper
84 100
49 177.7 124.3 186.5
51 45.3 36.3 54.5
86 70.8 47.4 71.2

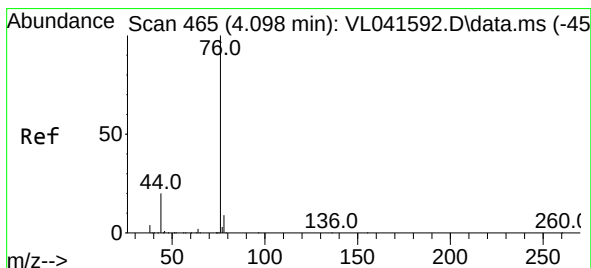
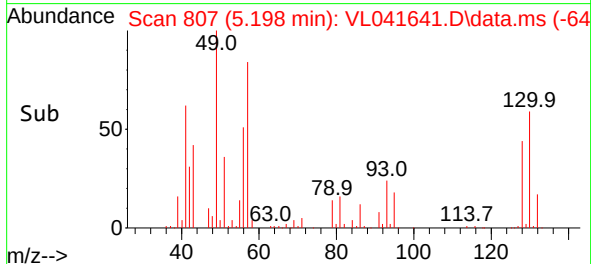
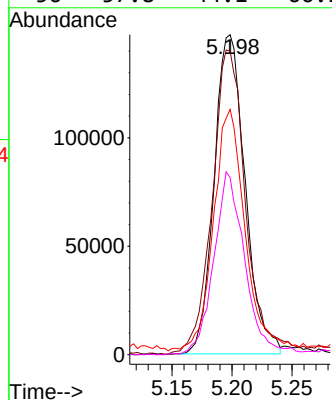
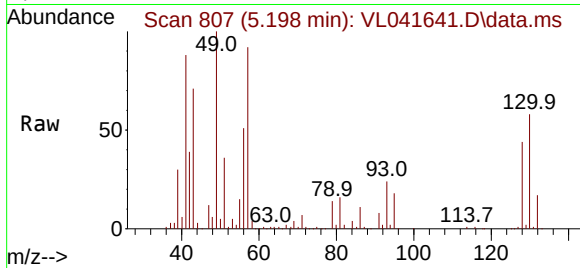




#26
Hexane
Concen: 2.327 ppbv
RT: 5.198 min Scan# 804
Delta R.T. 0.010 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

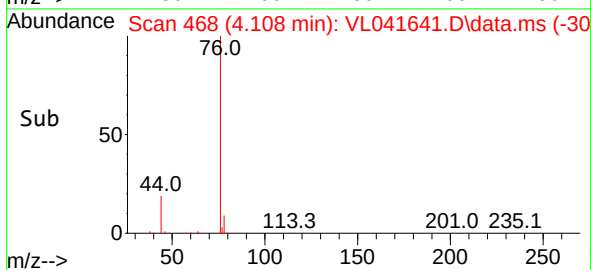
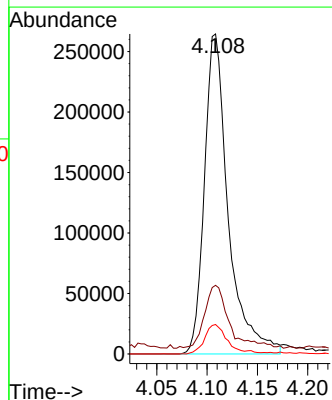
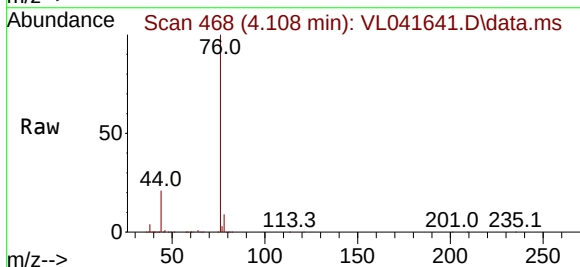
Instrument :
MSVOA_L
ClientSampleId :
SV2

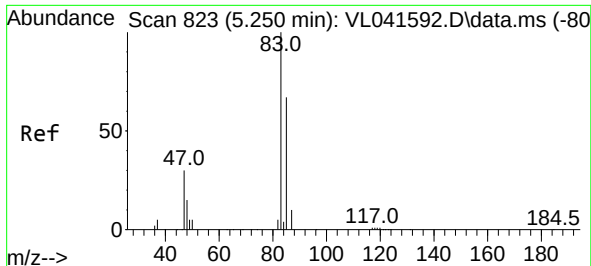
Tgt Ion: 57 Resp: 264368
Ion Ratio Lower Upper
57 100
41 104.2 75.7 113.5
43 78.0 198.5 297.7#
56 57.8 44.1 66.1



#27
Carbon Disulfide
Concen: 3.606 ppbv
RT: 4.108 min Scan# 468
Delta R.T. 0.010 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 76 Resp: 435521
Ion Ratio Lower Upper
76 100
44 20.3 15.8 23.8
78 9.0 7.5 11.3





#29

Chloroform

Concen: 0.265 ppbv

RT: 5.263 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

Instrument :

MSVOA_L

ClientSampleId :

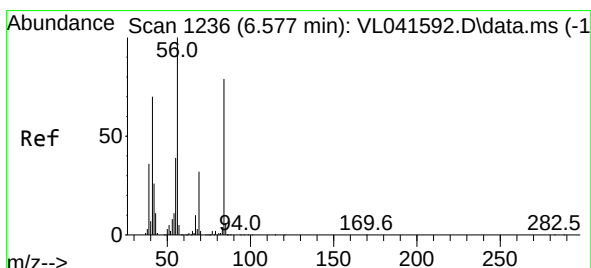
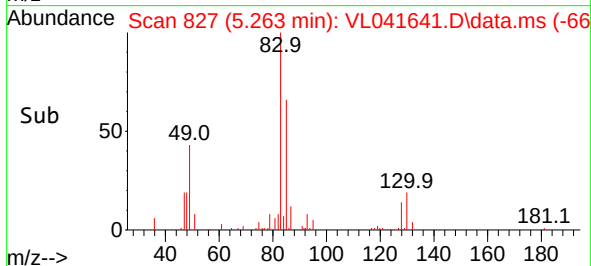
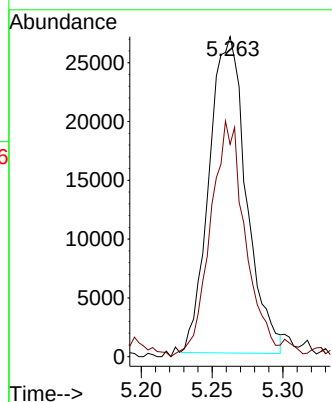
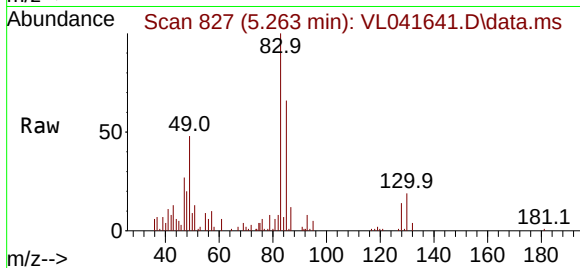
SV2

Tgt Ion: 83 Resp: 49257

Ion Ratio Lower Upper

83 100

85 65.4 53.8 80.6



#30

Cyclohexane

Concen: 0.636 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. 0.007 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

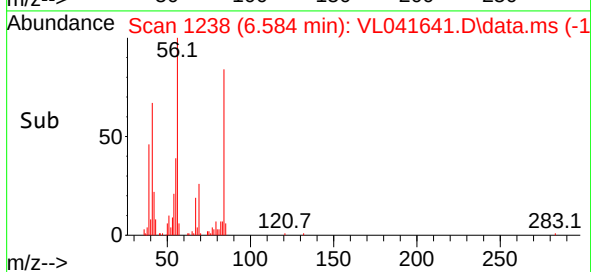
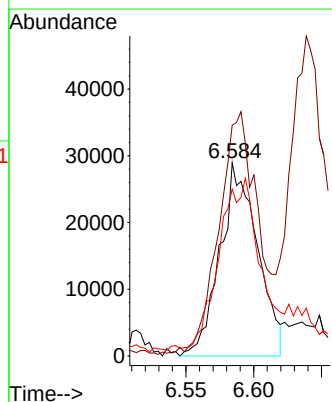
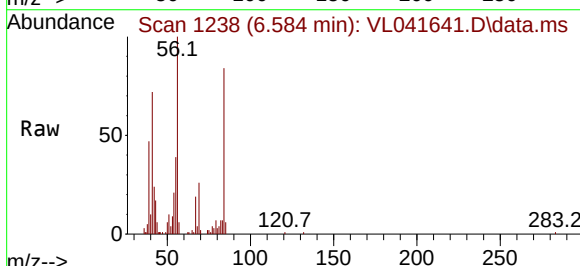
Tgt Ion: 84 Resp: 55689

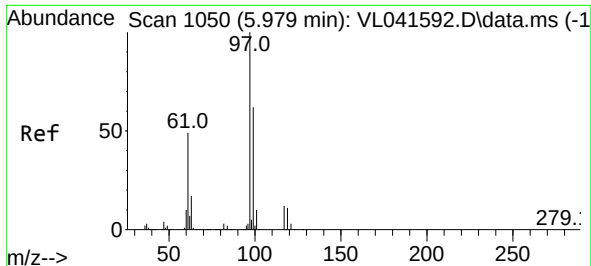
Ion Ratio Lower Upper

84 100

56 132.7 111.5 167.3

41 120.6 70.9 106.3#

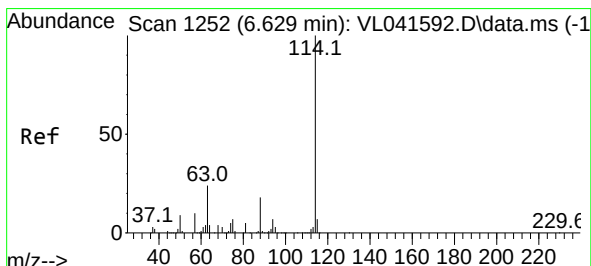
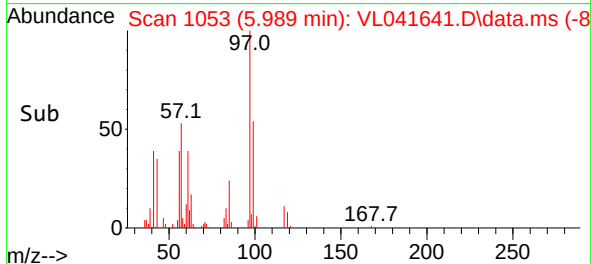
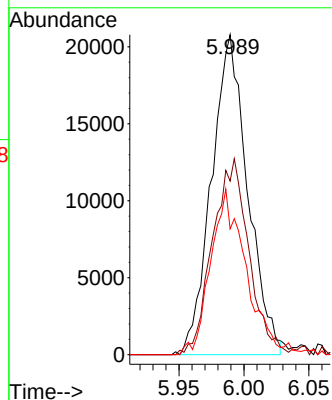
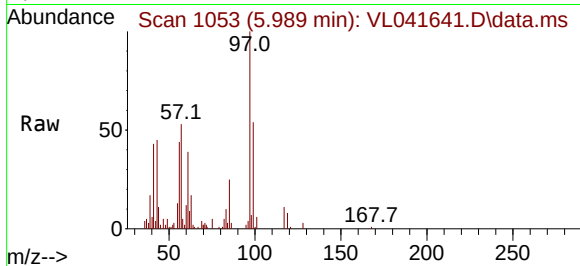




#32
 1,1,1-Trichloroethane
 Concen: 0.243 ppbv
 RT: 5.989 min Scan# 1050
 Delta R.T. 0.010 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

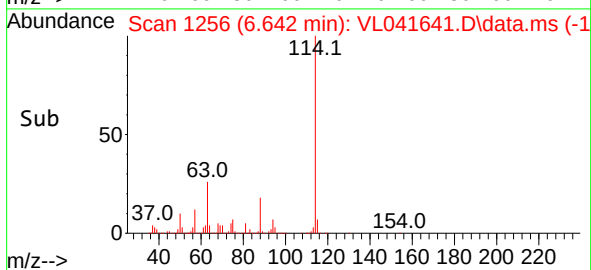
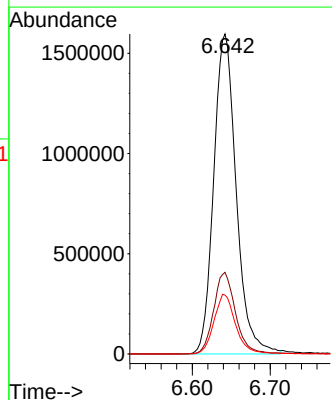
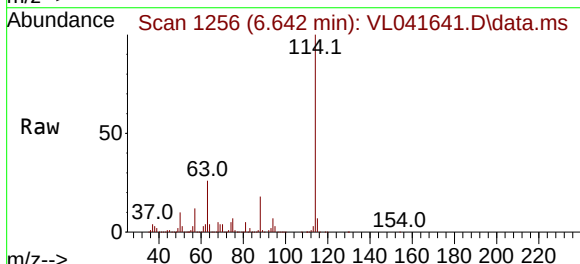
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

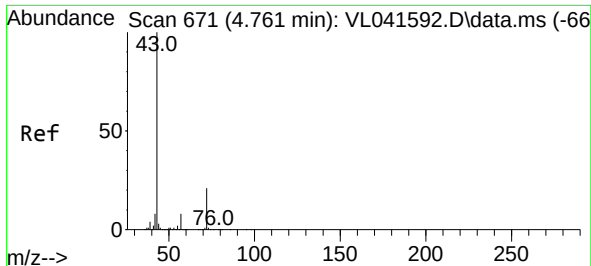
Tgt Ion: 97	Resp: 40191
Ion Ratio	Lower Upper
97 100	
99 62.6	51.0 76.4
61 51.1	41.0 61.6



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.642 min Scan# 1256
 Delta R.T. 0.013 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

Tgt Ion:114	Resp: 3203069		
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	18.0	14.2	21.4

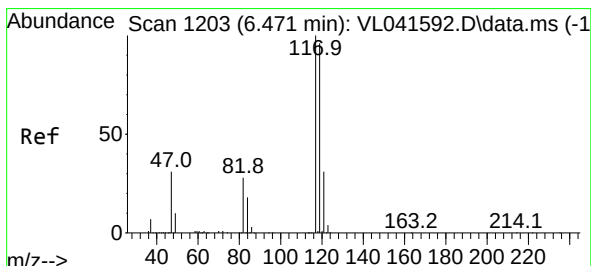
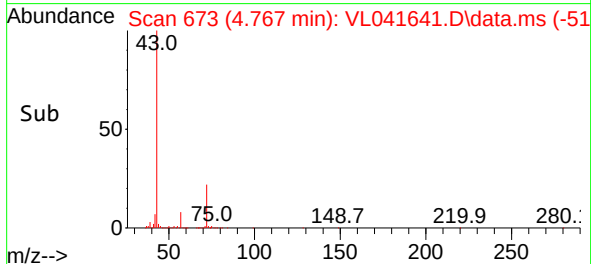
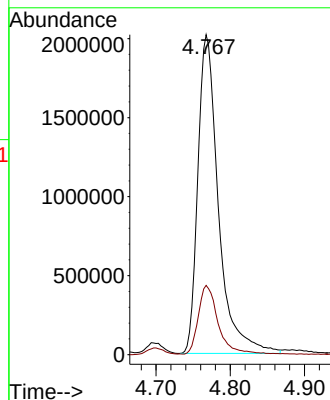
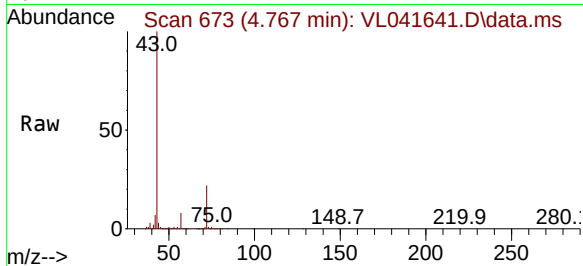




#34
2-Butanone
Concen: 25.475 ppbv
RT: 4.767 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

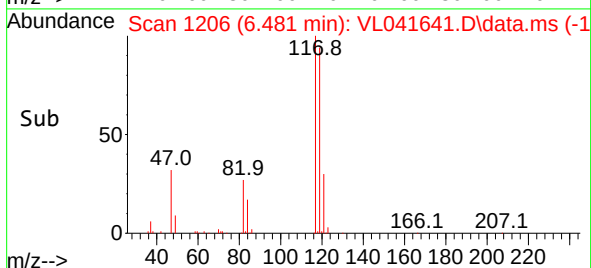
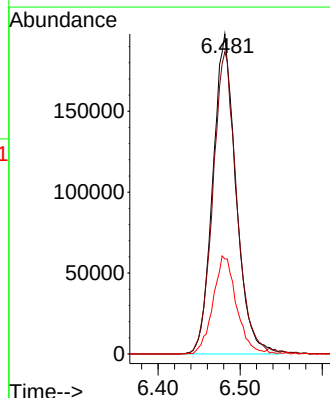
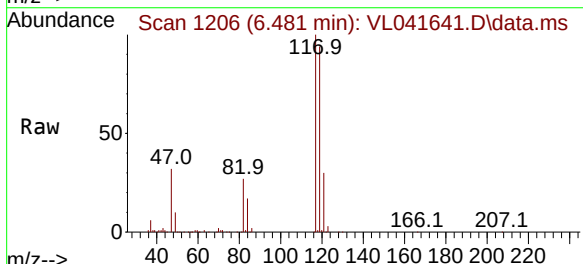
Instrument :
MSVOA_L
ClientSampleId :
SV2

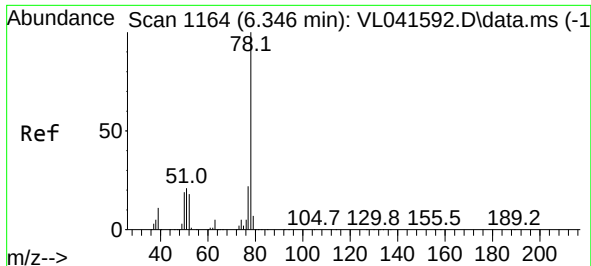
Tgt Ion: 43 Resp: 3890846
Ion Ratio Lower Upper
43 100
72 21.7 16.8 25.2



#35
Carbon Tetrachloride
Concen: 2.472 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 117 Resp: 388424
Ion Ratio Lower Upper
117 100
119 94.4 76.8 115.2
121 29.7 25.0 37.6

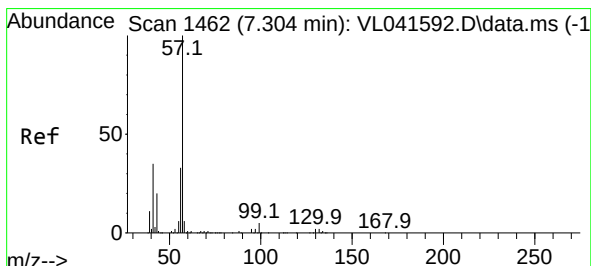
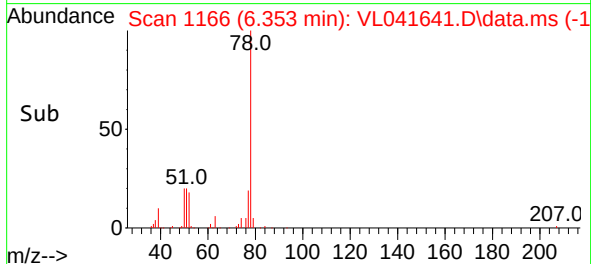
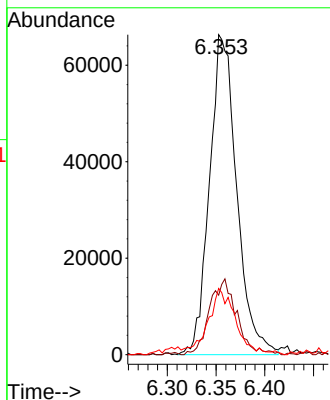
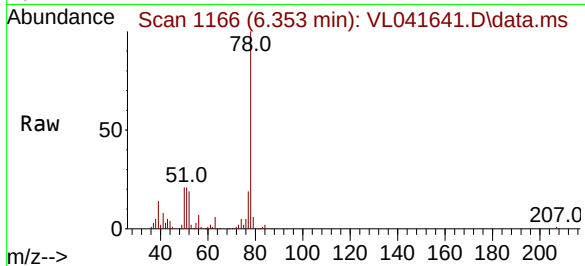




#36
Benzene
Concen: 0.580 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

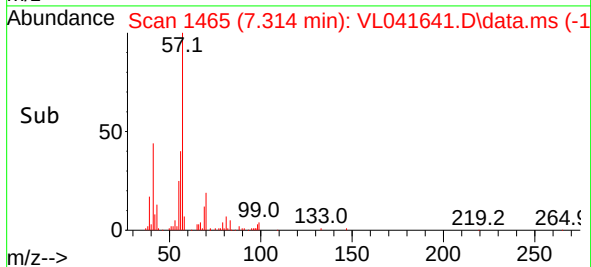
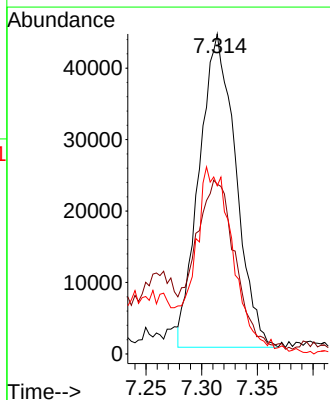
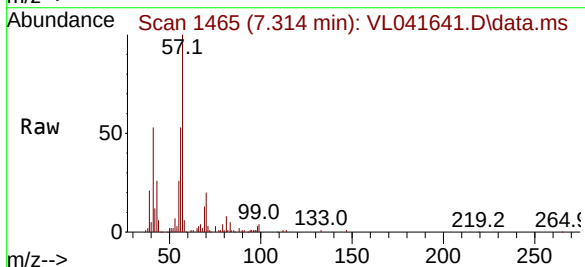
Instrument :
MSVOA_L
ClientSampleId :
SV2

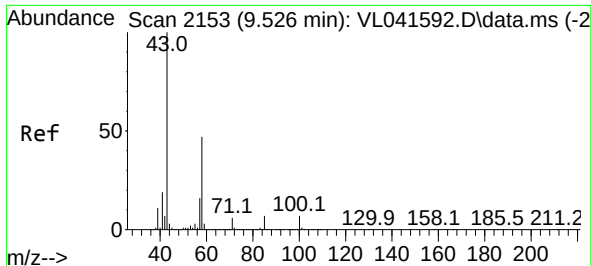
Tgt Ion: 78 Resp: 128995
Ion Ratio Lower Upper
78 100
77 18.3 17.8 26.6
50 20.0 15.4 23.0



#44
2,2,4-Trimethylpentane
Concen: 0.260 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.010 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 57 Resp: 100066
Ion Ratio Lower Upper
57 100
41 96.3 27.0 40.6#
56 65.8 25.5 38.3#

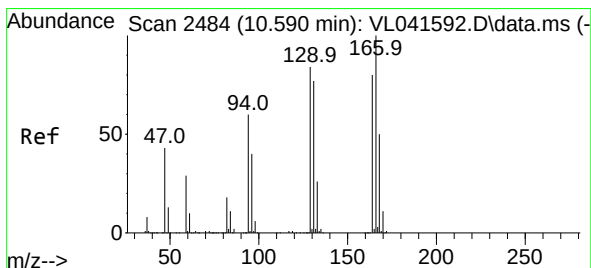
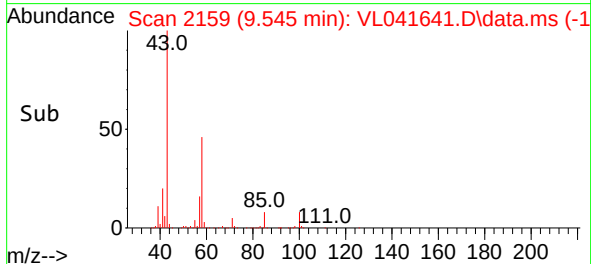
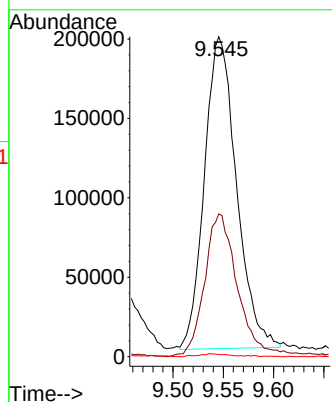
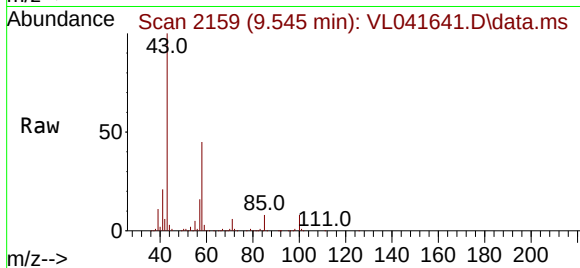




#51
2-Hexanone
Concen: 2.438 ppbv
RT: 9.545 min Scan# 2153
Delta R.T. 0.020 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

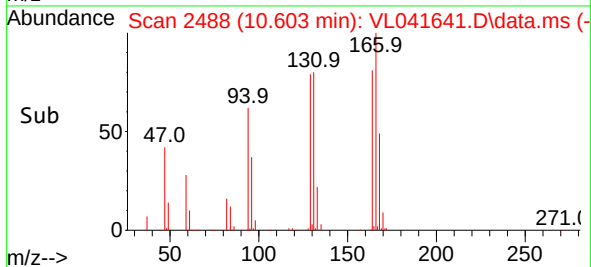
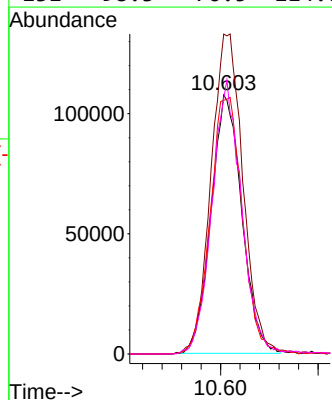
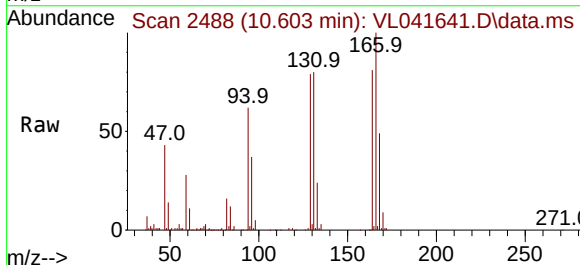
Instrument :
MSVOA_L
ClientSampleId :
SV2

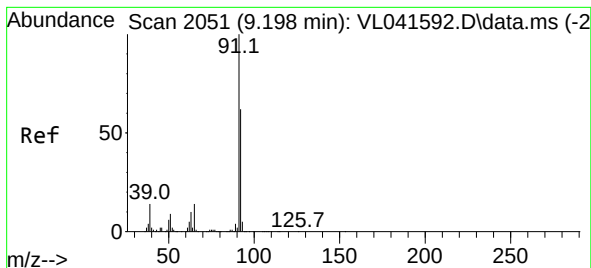
Tgt Ion: 43 Resp: 434961
Ion Ratio Lower Upper
43 100
58 47.3 37.2 55.8
98 1.0 0.5 0.7#



#52
Tetrachloroethene
Concen: 2.917 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. 0.013 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 164 Resp: 234938
Ion Ratio Lower Upper
164 100
166 123.6 99.4 149.2
129 97.6 83.5 125.3
131 98.3 76.5 114.7





#53

Toluene

Concen: 3.568 ppbv

RT: 9.208 min Scan# 2051

Delta R.T. 0.010 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

Instrument :

MSVOA_L

ClientSampleId :

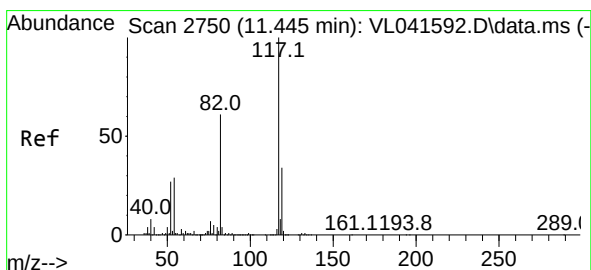
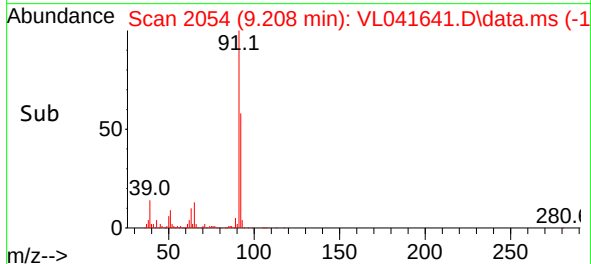
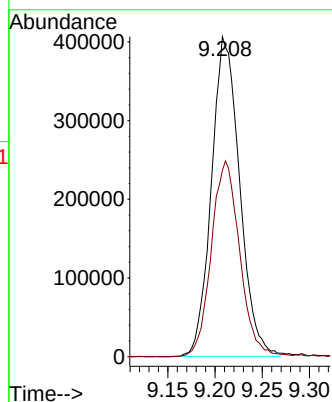
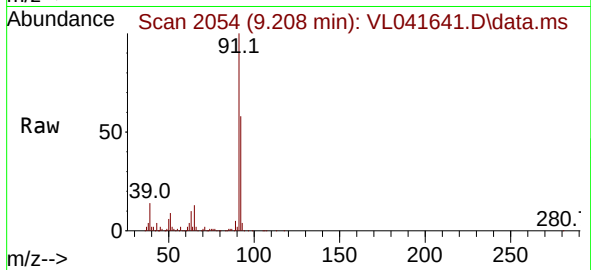
SV2

Tgt Ion: 91 Resp: 842532

Ion Ratio Lower Upper

91 100

92 62.2 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.459 min Scan# 2754

Delta R.T. 0.013 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

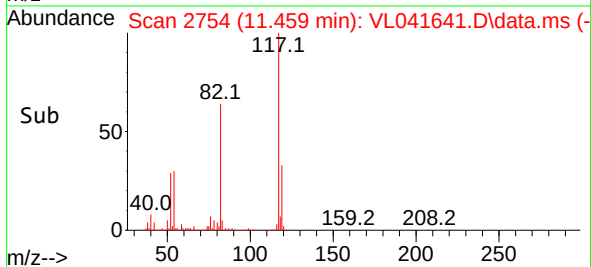
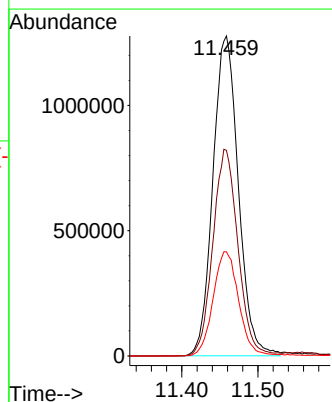
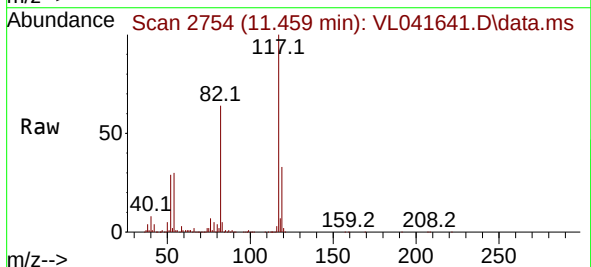
Tgt Ion: 117 Resp: 2967134

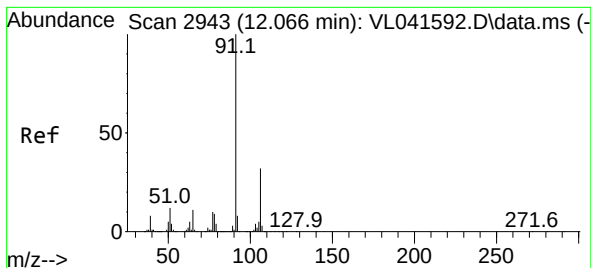
Ion Ratio Lower Upper

117 100

82 64.2 49.4 74.2

119 33.1 24.4 36.6





#58

Ethyl Benzene

Concen: 0.220 ppbv

RT: 12.079 min Scan# 2943

Delta R.T. 0.013 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

Instrument :

MSVOA_L

ClientSampleId :

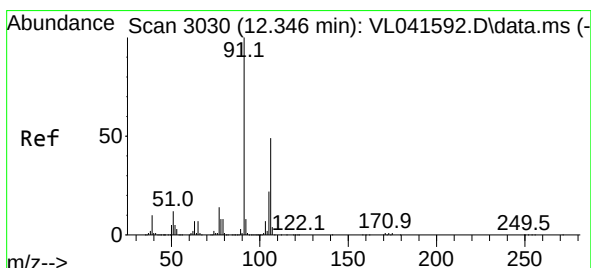
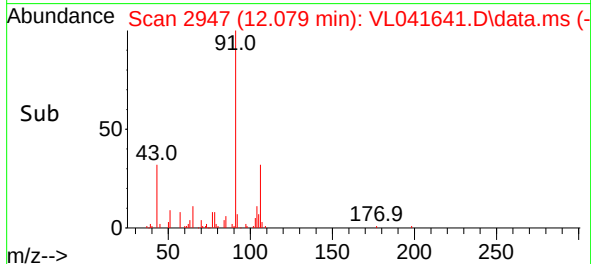
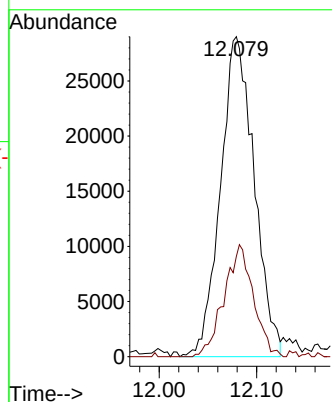
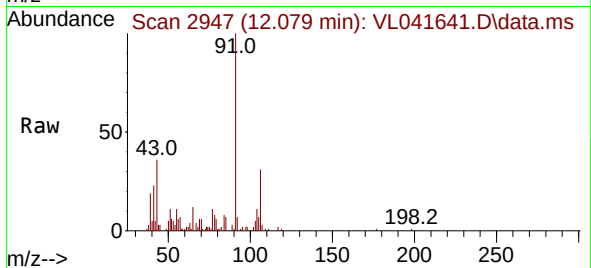
SV2

Tgt Ion: 91 Resp: 69794

Ion Ratio Lower Upper

91 100

106 31.4 25.8 38.6



#59

m/p-Xylene

Concen: 0.964 ppbv

RT: 12.336 min Scan# 3027

Delta R.T. -0.009 min

Lab File: VL041641.D

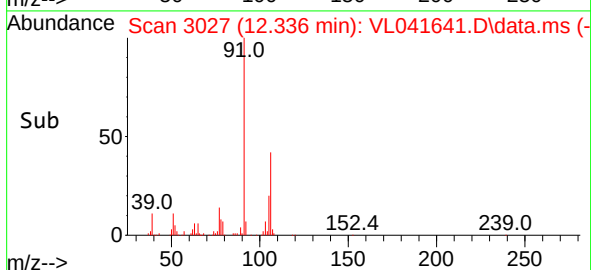
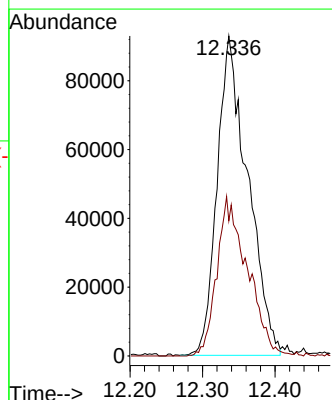
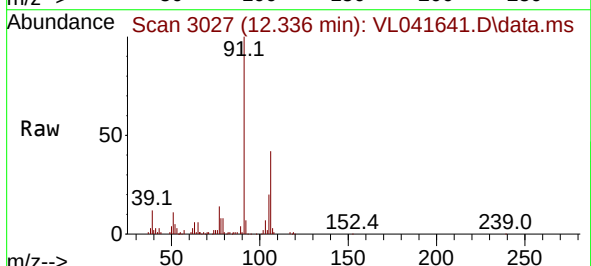
Acq: 10 Oct 2024 14:07

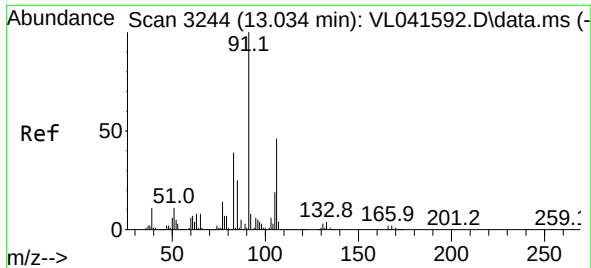
Tgt Ion: 91 Resp: 272414

Ion Ratio Lower Upper

91 100

106 49.8 36.8 55.2

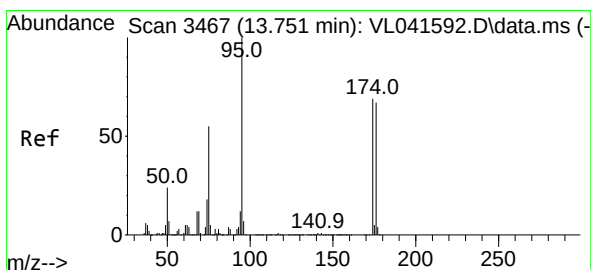
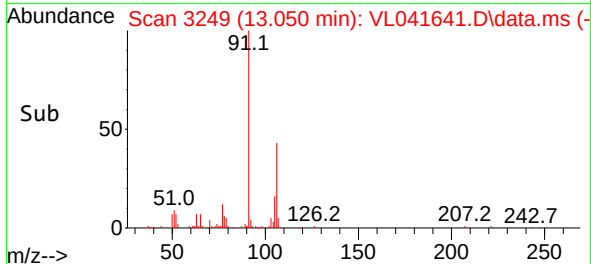
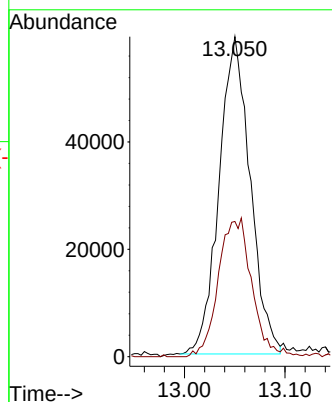
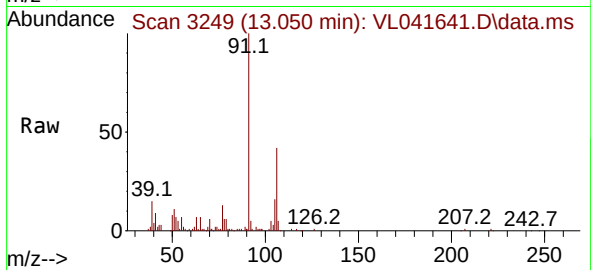




#60
o-Xylene
Concen: 0.469 ppbv
RT: 13.050 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

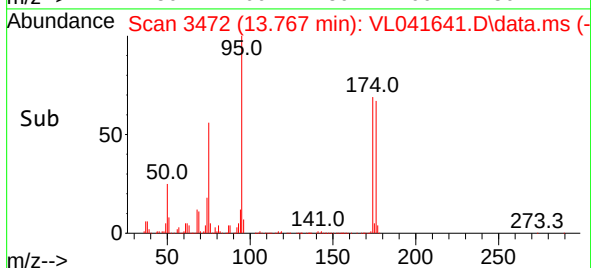
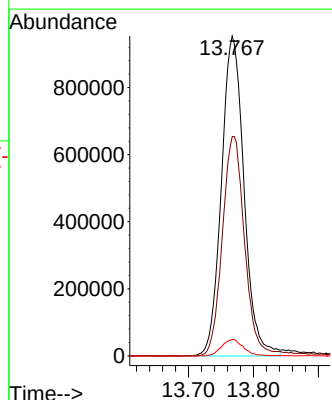
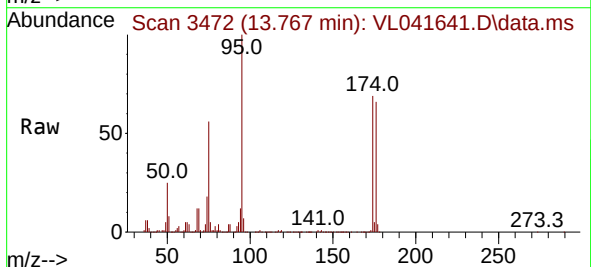
Instrument :
MSVOA_L
ClientSampleId :
SV2

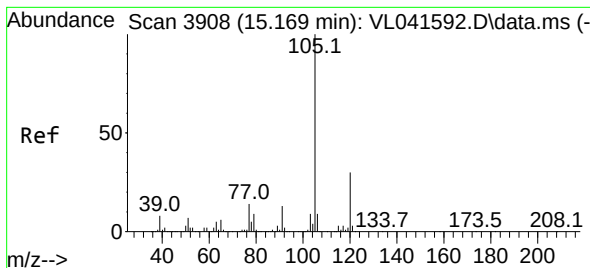
Tgt Ion: 91 Resp: 127019
Ion Ratio Lower Upper
91 100
106 47.2 23.1 69.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.530 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. 0.016 min
Lab File: VL041641.D
Acq: 10 Oct 2024 14:07

Tgt Ion: 95 Resp: 2300034
Ion Ratio Lower Upper
95 100
174 69.3 55.8 83.8
175 5.1 4.1 6.1





#72

4-Ethyltoluene

Concen: 0.145 ppbv

RT: 15.185 min Scan# 3913

Delta R.T. 0.016 min

Lab File: VL041641.D

Acq: 10 Oct 2024 14:07

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 46066

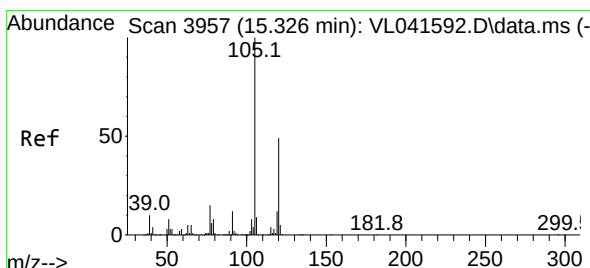
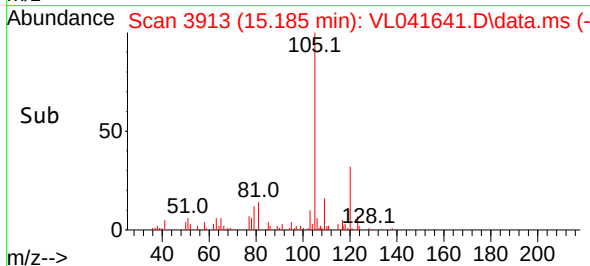
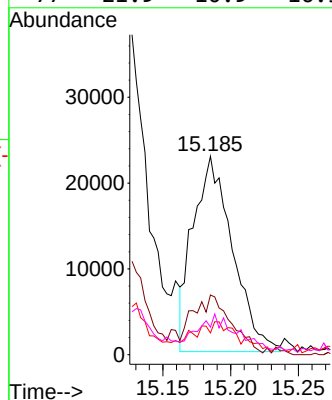
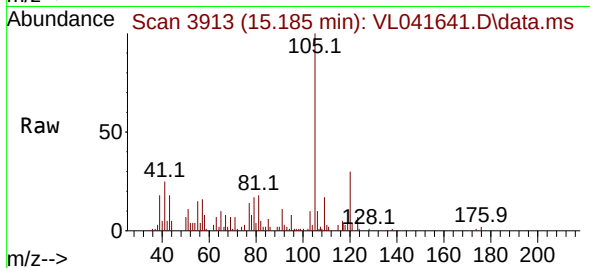
Ion Ratio Lower Upper

105 100

120 35.4 24.1 36.1

91 22.2 10.2 15.2#

77 21.9 10.9 16.3#



#73

1,3,5-Trimethylbenzene

Concen: 0.187 ppbv

RT: 15.346 min Scan# 3963

Delta R.T. 0.020 min

Lab File: VL041641.D

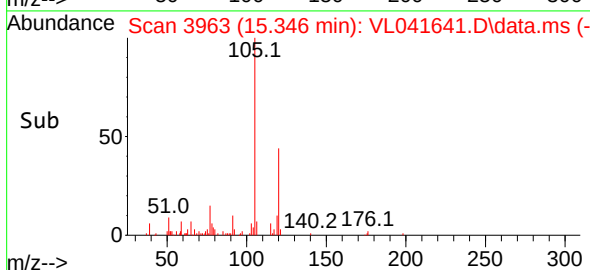
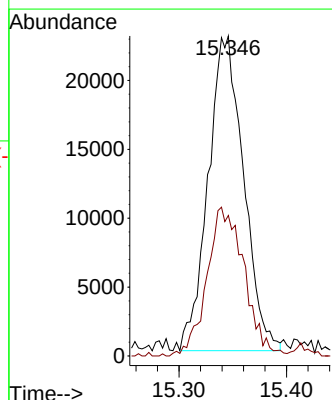
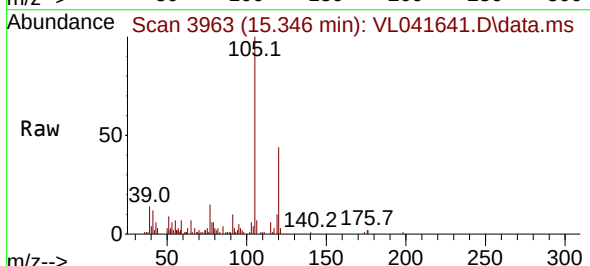
Acq: 10 Oct 2024 14:07

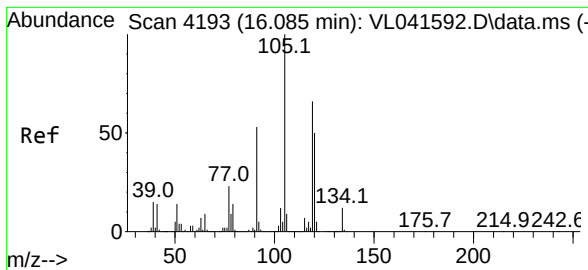
Tgt Ion:105 Resp: 52408

Ion Ratio Lower Upper

105 100

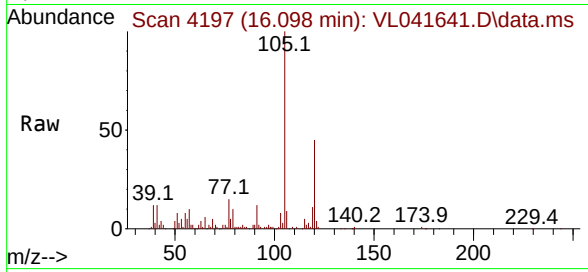
120 43.8 39.4 59.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.727 ppbv
 RT: 16.098 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL041641.D
 Acq: 10 Oct 2024 14:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	238209
Ion	Ratio	Lower	Upper
105	100		
120	45.1	39.9	59.9
91	11.7	42.6	63.8#
77	14.5	18.2	27.2#

