

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
 Data File : VL041638.D
 Acq On : 10 Oct 2024 12:10
 Operator : SY/MD
 Sample : P4339-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 11 05:38:58 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	1214210	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3324588	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3004462	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2311429	10.451	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%

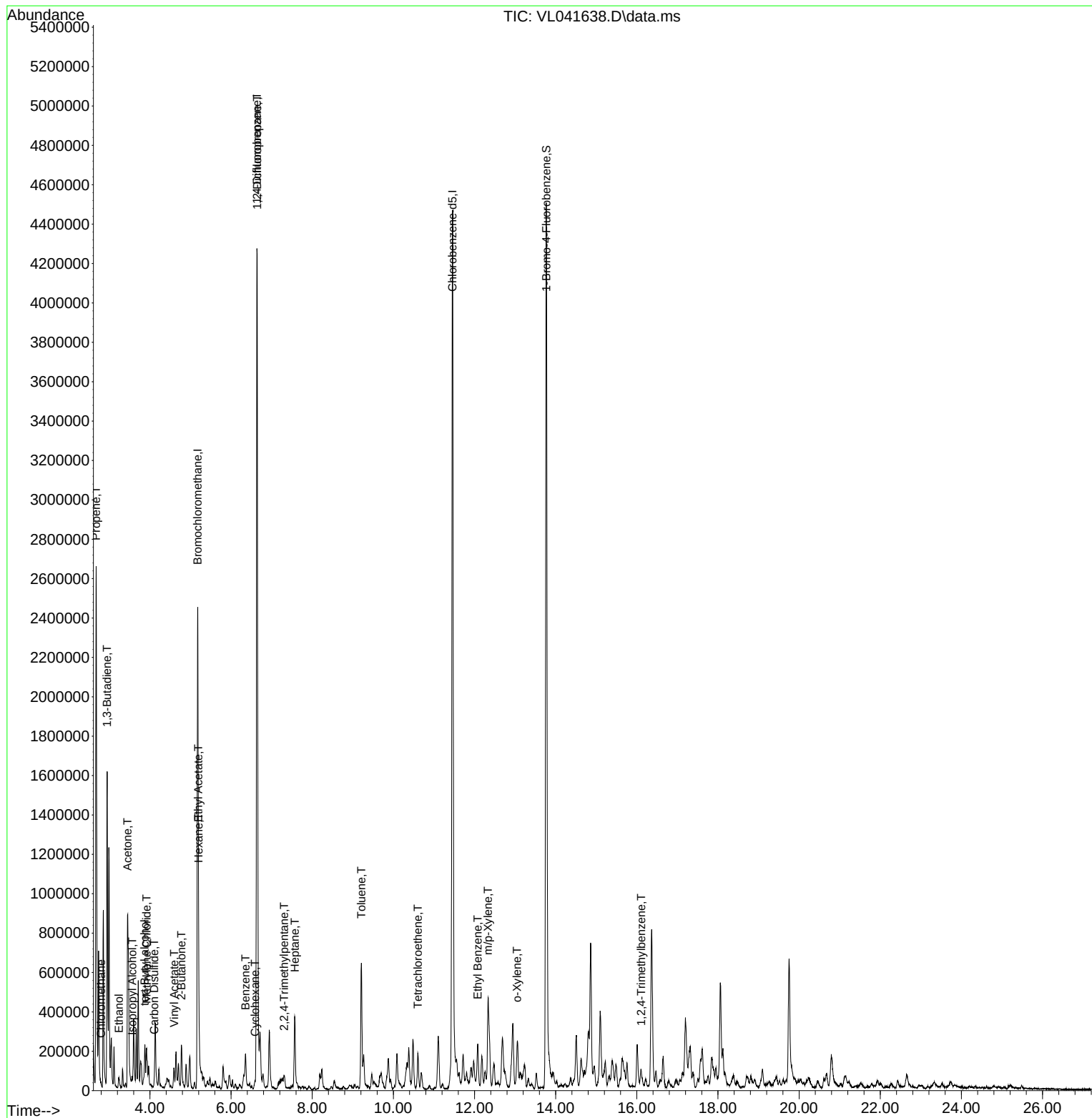
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.796	50	3251	0.040	ppbv	91
9) Propene	2.671	41	1107963	17.836	ppbv	93
10) Heptane	7.568	43	160597	1.104	ppbv	95
13) Ethanol	3.237	45	54745	11.722	ppbv	94
15) Acetone	3.449	43	1067399	7.002	ppbv	94
16) 1,3-Butadiene	2.944	39	462931	6.244	ppbv #	32
17) tert-Butyl alcohol	3.870	59	47698	0.356	ppbv #	58
19) Isopropyl Alcohol	3.568	45	11288	0.145	ppbv #	92
20) Methylene Chloride	3.918	84	60250	1.052	ppbv	92
23) Vinyl Acetate	4.600	43	22139	0.264	ppbv #	1
25) Ethyl Acetate	5.195	43	102424	0.374	ppbv #	81
26) Hexane	5.198	57	127770	1.120	ppbv #	40
27) Carbon Disulfide	4.105	76	32813	0.270	ppbv #	98
30) Cyclohexane	6.587	84	8161	0.093	ppbv #	7
34) 2-Butanone	4.777	43	255536	1.612	ppbv	91
36) Benzene	6.356	78	128157	0.555	ppbv #	92
39) 1,2-Dichloropropane	6.642	63	830965	8.847	ppbv #	24
44) 2,2,4-Trimethylpentane	7.311	57	20832	0.052	ppbv #	1
52) Tetrachloroethene	10.603	164	24429	0.292	ppbv	91
53) Toluene	9.211	91	515266	2.102	ppbv	98
58) Ethyl Benzene	12.079	91	181302	0.564	ppbv	97
59) m/p-Xylene	12.333	91	475547	1.661	ppbv	97
60) o-Xylene	13.047	91	61276	0.223	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.108	105	21970	0.066	ppbv #	64

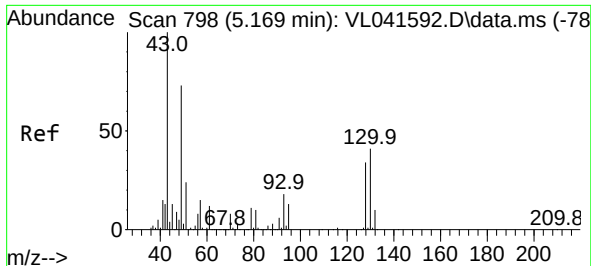
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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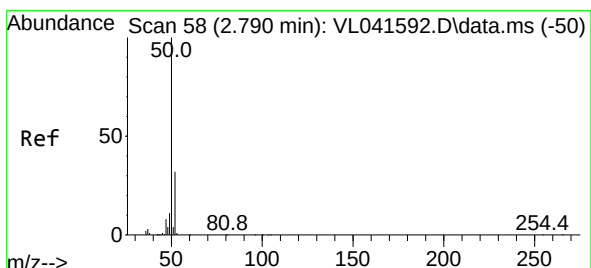
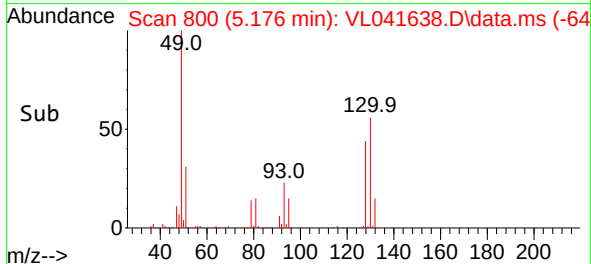
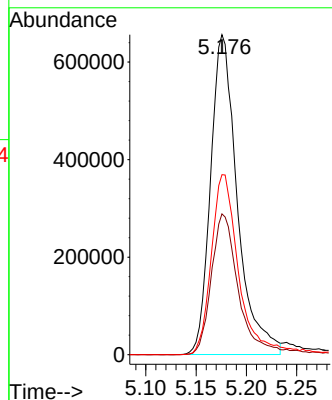
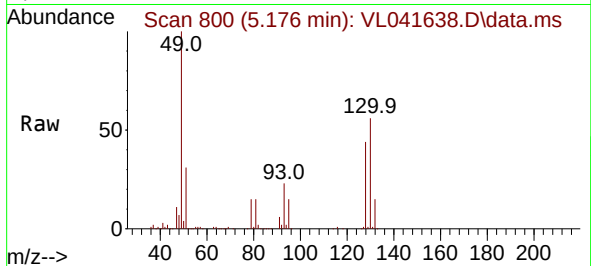




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

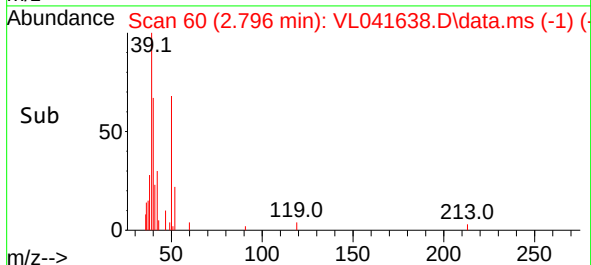
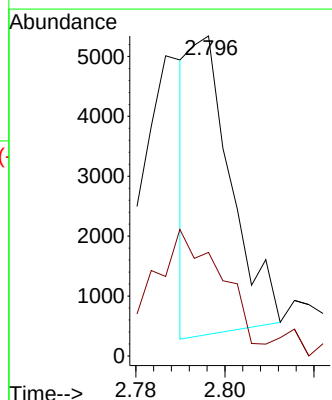
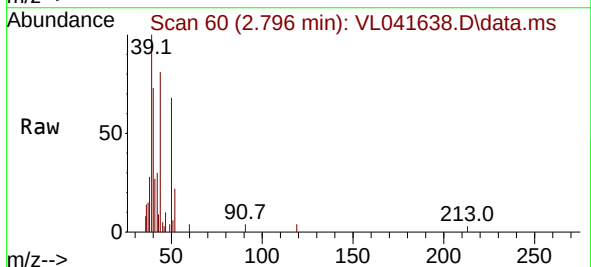
Instrument :
MSVOA_L
ClientSampleId :

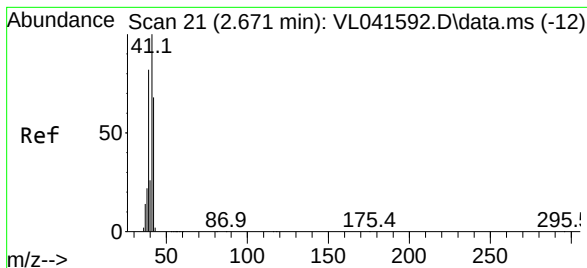
Tgt Ion: 49 Resp: 1214210
Ion Ratio Lower Upper
49 100
128 46.7 23.8 71.5
130 59.2 30.4 91.3



#4
Chloromethane
Concen: 0.040 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.007 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 50 Resp: 3251
Ion Ratio Lower Upper
50 100
52 27.0 25.4 38.2





#9

Propene

Concen: 17.836 ppbv

RT: 2.671 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

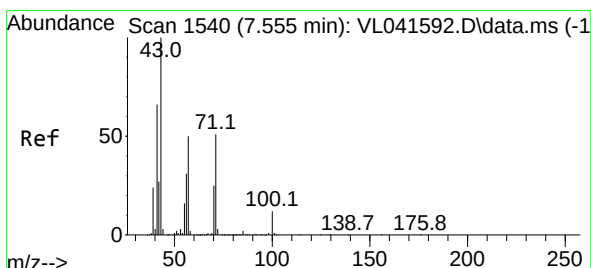
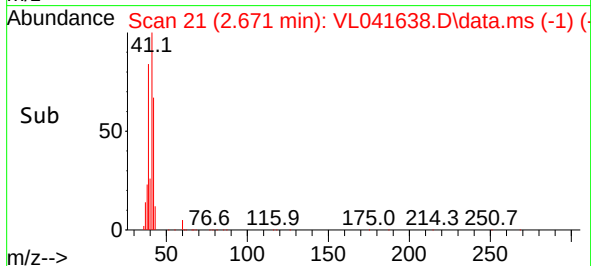
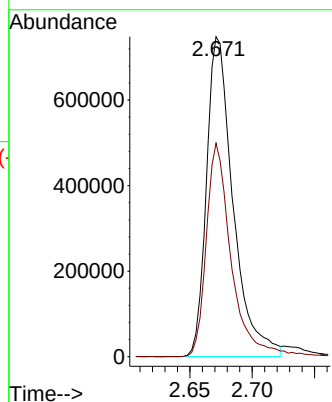
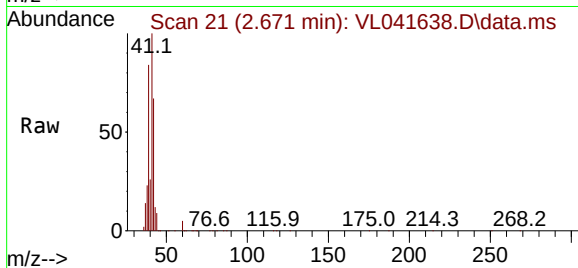
ClientSampleId :

Tgt Ion: 41 Resp: 1107963

Ion Ratio Lower Upper

41 100

42 63.2 55.2 82.8



#10

Heptane

Concen: 1.104 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. 0.013 min

Lab File: VL041638.D

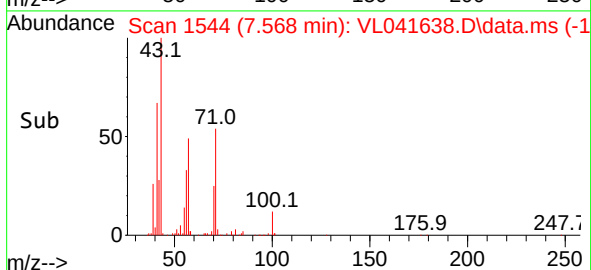
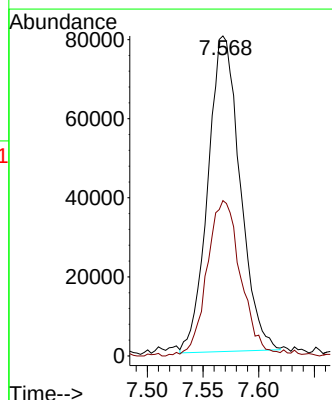
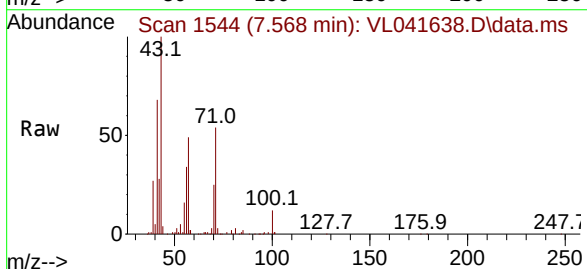
Acq: 10 Oct 2024 12:10

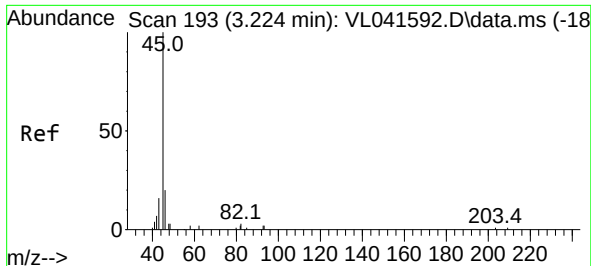
Tgt Ion: 43 Resp: 160597

Ion Ratio Lower Upper

43 100

57 52.9 39.8 59.8

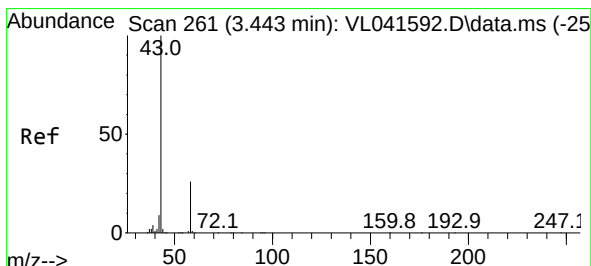
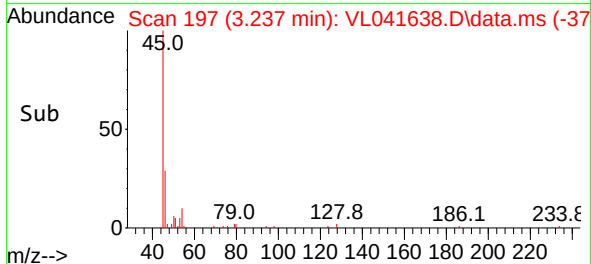
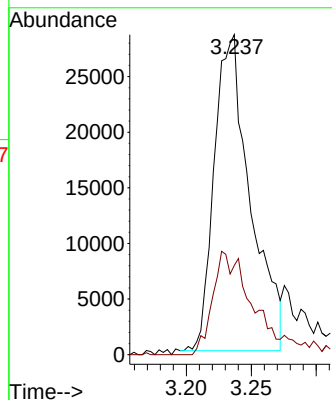
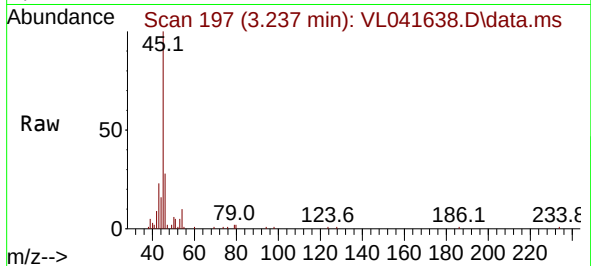




#13
Ethanol
Concen: 11.722 ppbv
RT: 3.237 min Scan# 19
Delta R.T. 0.013 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

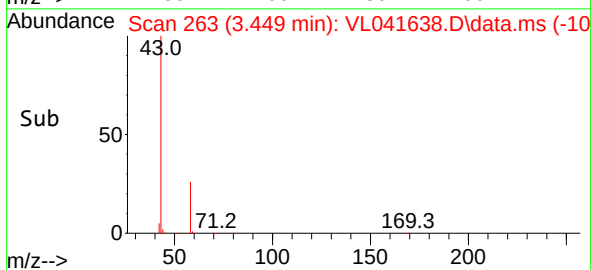
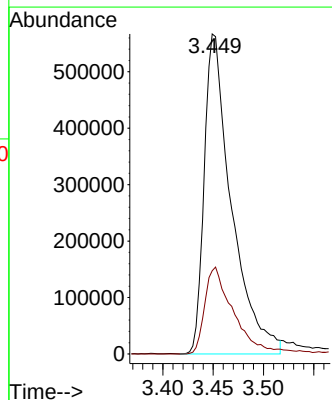
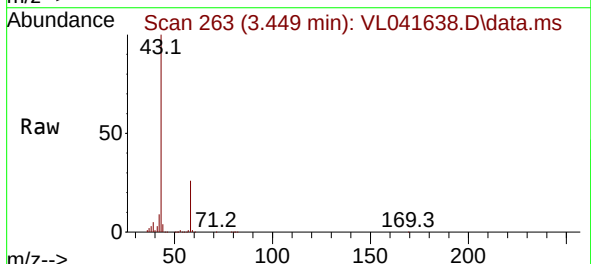
Instrument :
MSVOA_L
ClientSampleId :

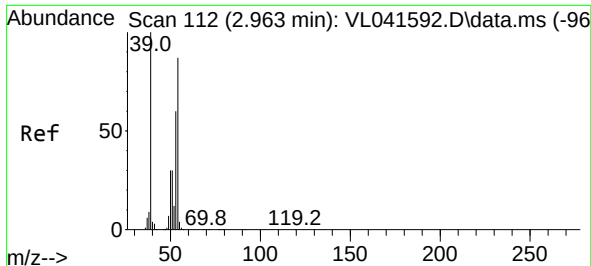
Tgt Ion: 45 Resp: 54745
Ion Ratio Lower Upper
45 100
46 41.7 15.2 60.8



#15
Acetone
Concen: 7.002 ppbv
RT: 3.449 min Scan# 263
Delta R.T. 0.006 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 43 Resp: 1067399
Ion Ratio Lower Upper
43 100
58 30.1 21.5 32.3





#16

1,3-Butadiene

Concen: 6.244 ppbv

RT: 2.944 min Scan# 112

Delta R.T. -0.019 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

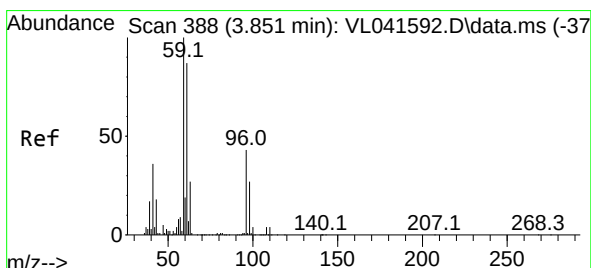
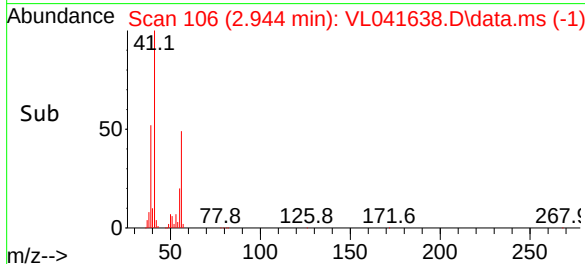
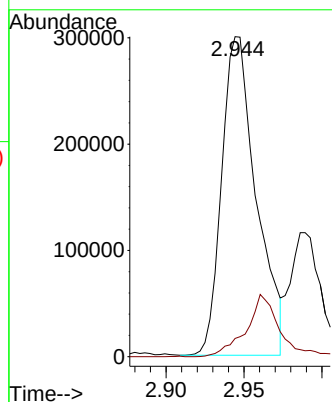
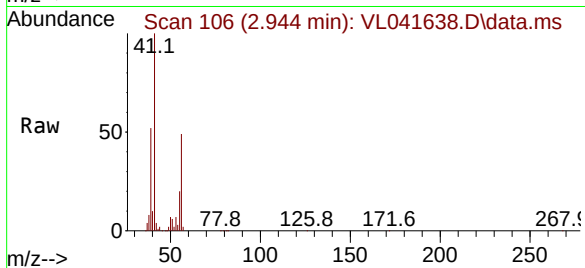
ClientSampleId :

Tgt Ion: 39 Resp: 462931

Ion Ratio Lower Upper

39 100

54 18.9 62.9 94.3#



#17

tert-Butyl alcohol

Concen: 0.356 ppbv

RT: 3.870 min Scan# 394

Delta R.T. 0.019 min

Lab File: VL041638.D

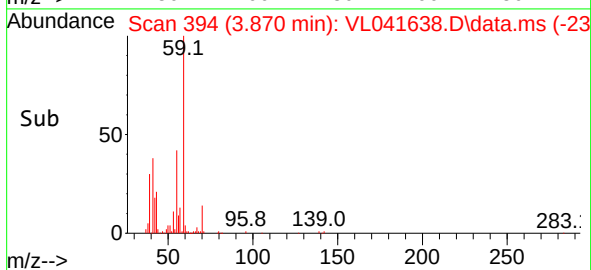
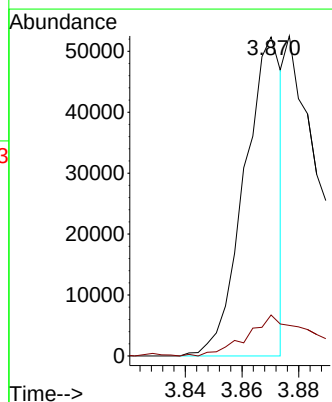
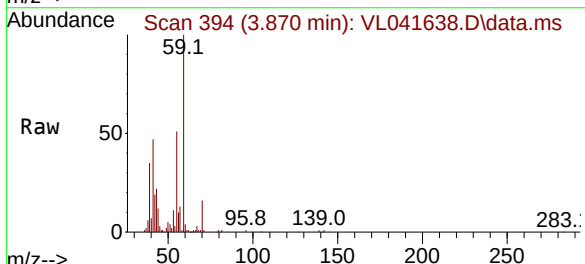
Acq: 10 Oct 2024 12:10

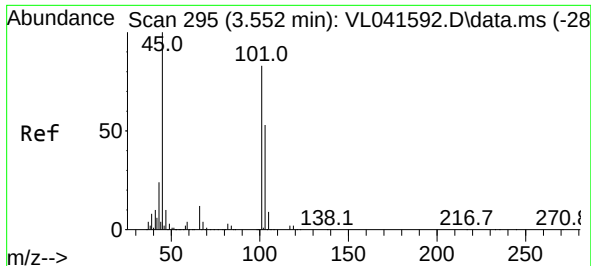
Tgt Ion: 59 Resp: 47698

Ion Ratio Lower Upper

59 100

57 26.7 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.145 ppbv

RT: 3.568 min Scan# 30

Delta R.T. 0.016 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

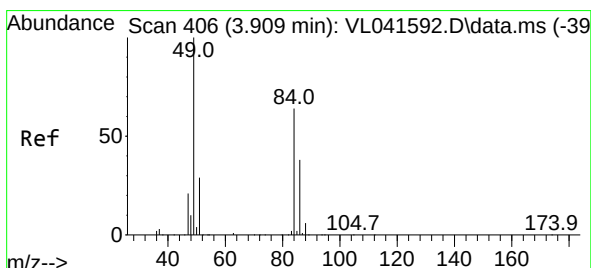
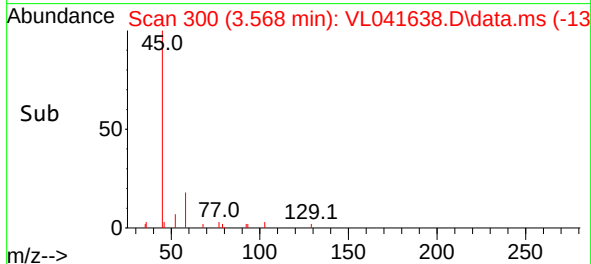
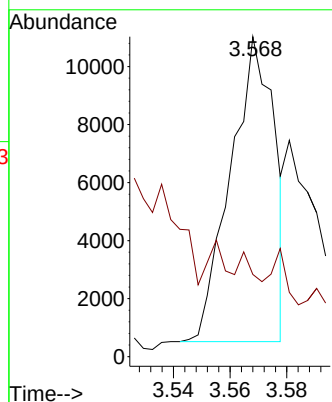
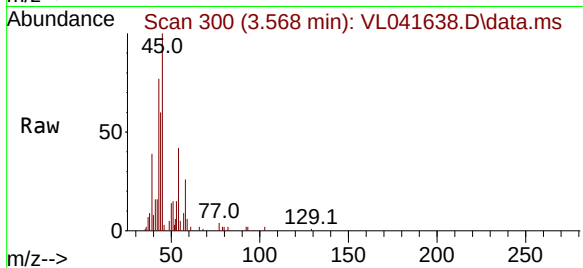
ClientSampleId :

Tgt Ion: 45 Resp: 11288

Ion Ratio Lower Upper

45 100

58 0.0 2.1 3.1#



#20

Methylene Chloride

Concen: 1.052 ppbv

RT: 3.918 min Scan# 409

Delta R.T. 0.010 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Tgt Ion: 84 Resp: 60250

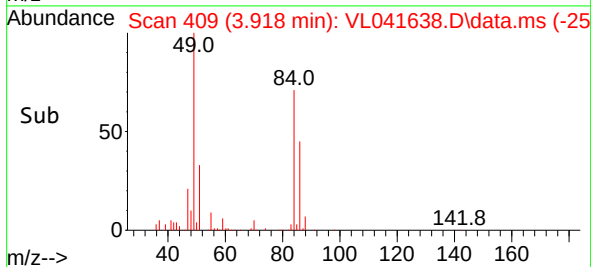
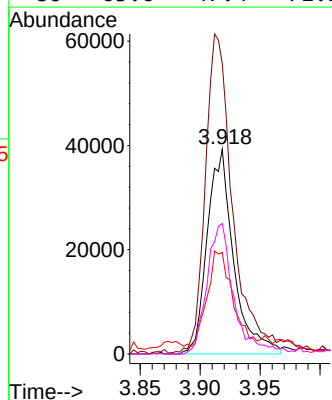
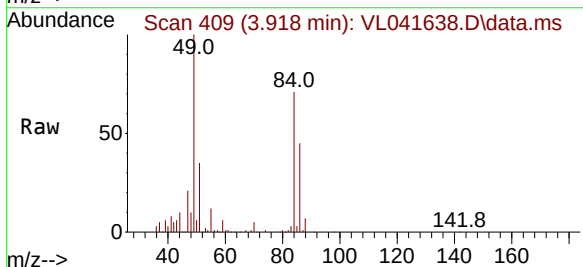
Ion Ratio Lower Upper

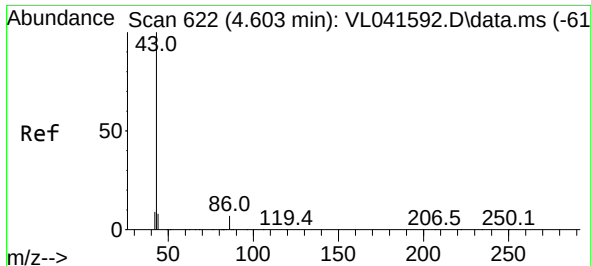
84 100

49 140.7 124.3 186.5

51 44.7 36.3 54.5

86 63.6 47.4 71.2



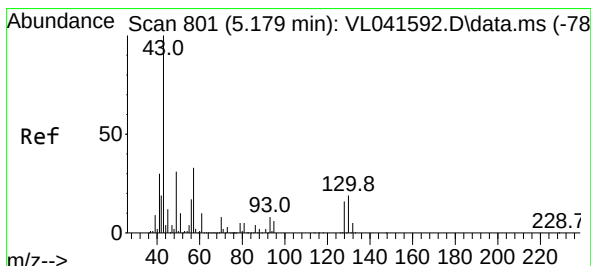
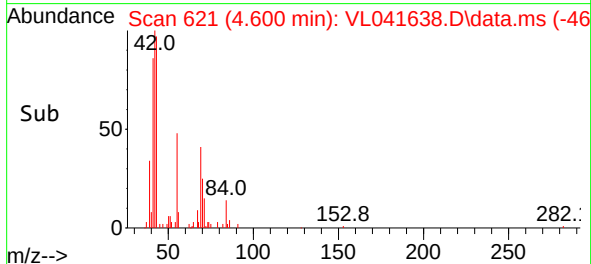
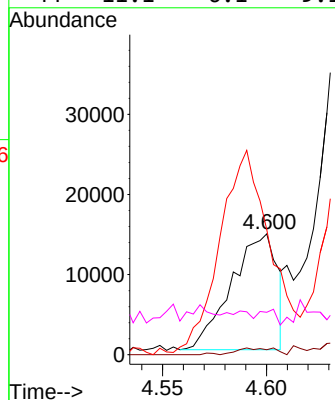
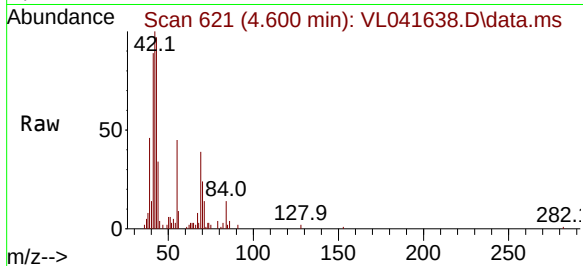


#23
 Vinyl Acetate
 Concen: 0.264 ppbv
 RT: 4.600 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL041638.D
 Acq: 10 Oct 2024 12:10

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 22139

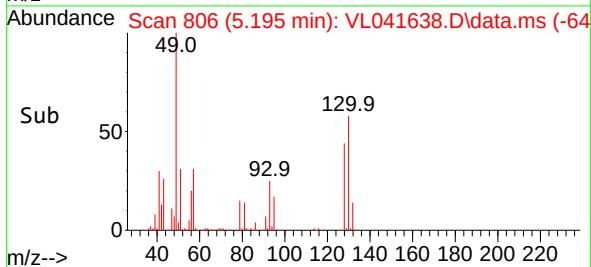
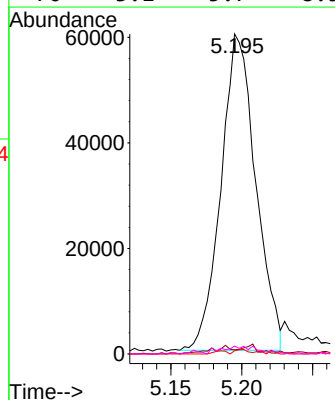
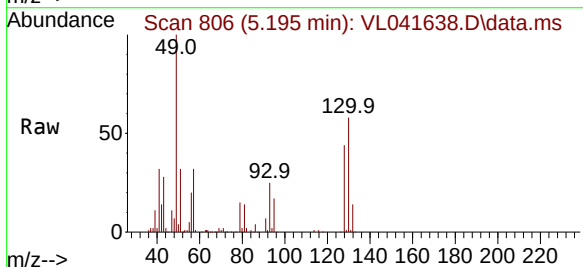
Ion	Ratio	Lower	Upper
43	100		
86	4.3	4.9	7.3#
42	101.6	8.0	12.0#
44	11.1	6.1	9.1#

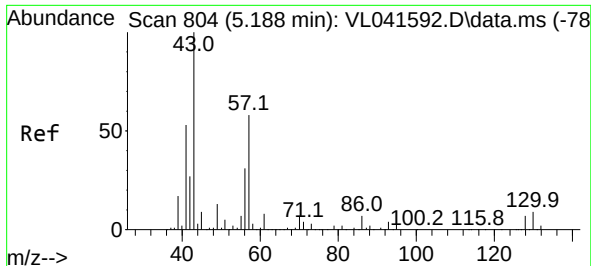


#25
 Ethyl Acetate
 Concen: 0.374 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. 0.016 min
 Lab File: VL041638.D
 Acq: 10 Oct 2024 12:10

Tgt Ion: 43 Resp: 102424

Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.2	12.2#
61	1.3	8.0	12.0#
70	3.1	5.7	8.5#

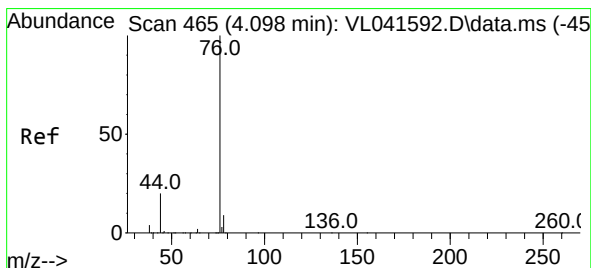
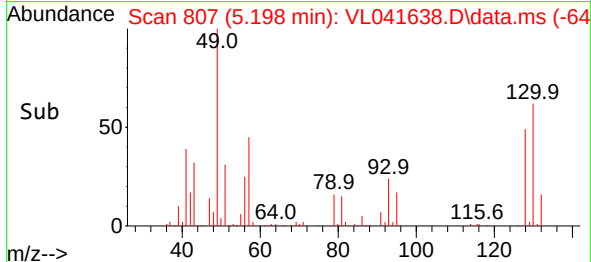
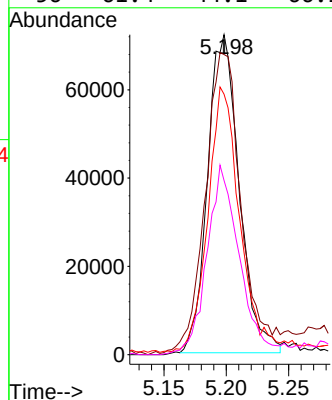
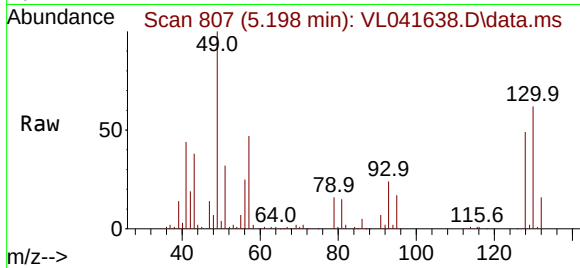




#26
Hexane
Concen: 1.120 ppbv
RT: 5.198 min Scan# 804
Delta R.T. 0.010 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

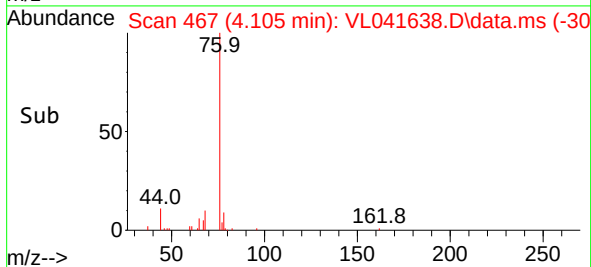
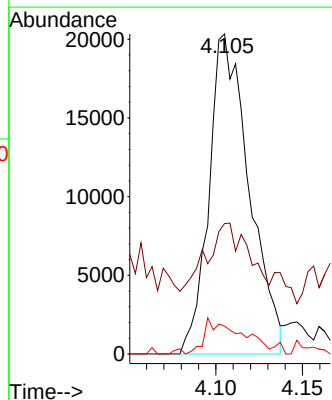
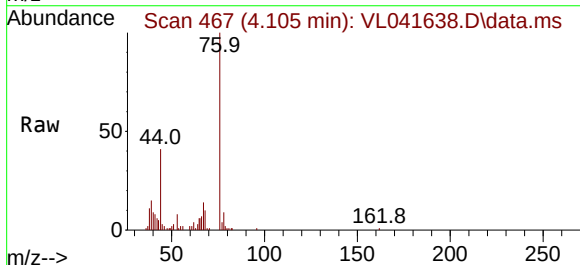
Instrument :
MSVOA_L
ClientSampleId :

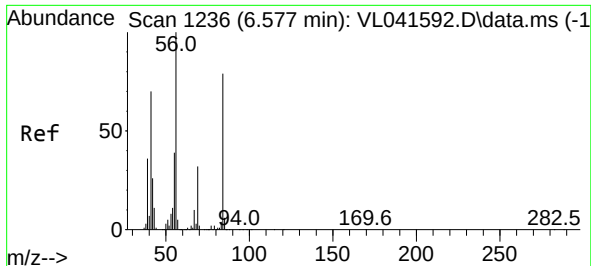
Tgt Ion: 57 Resp: 127770
Ion Ratio Lower Upper
57 100
41 110.5 75.7 113.5
43 94.2 198.5 297.7#
56 61.4 44.1 66.1



#27
Carbon Disulfide
Concen: 0.270 ppbv
RT: 4.105 min Scan# 467
Delta R.T. 0.006 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 76 Resp: 32813
Ion Ratio Lower Upper
76 100
44 20.0 15.8 23.8
78 11.3 7.5 11.3#

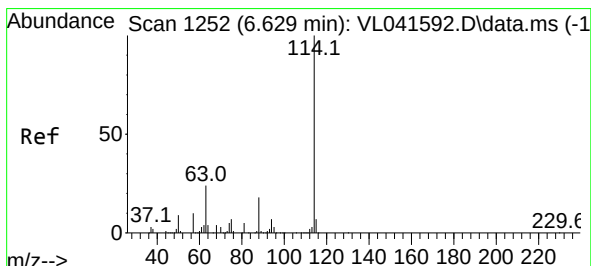
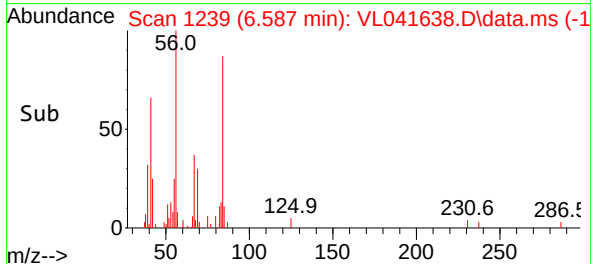
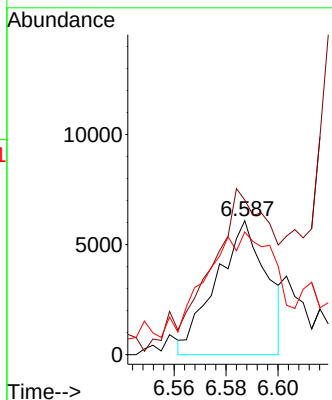
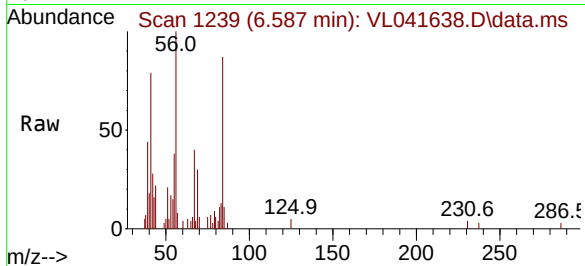




#30
Cyclohexane
Concen: 0.093 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. 0.010 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

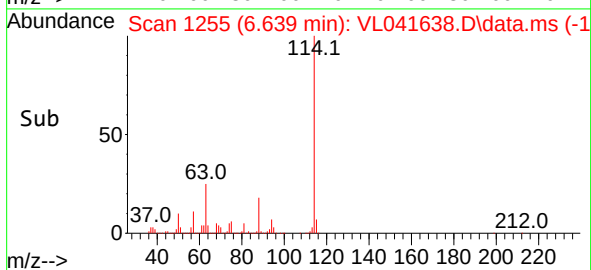
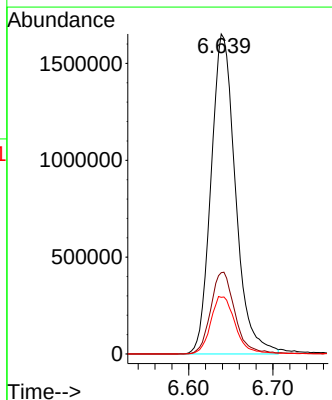
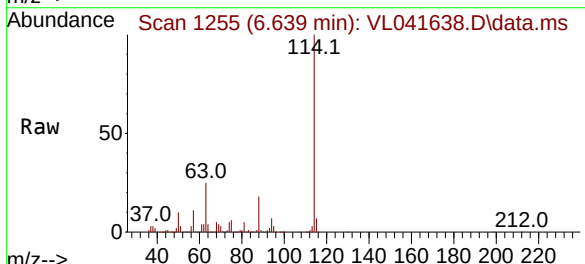
Instrument :
MSVOA_L
ClientSampleId :

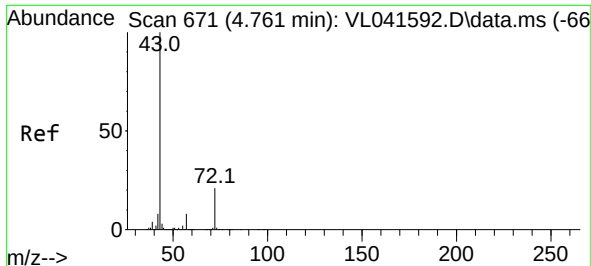
Tgt Ion: 84 Resp: 8161
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 144.6 70.9 106.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.010 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 114 Resp: 3324588
Ion Ratio Lower Upper
114 100
63 25.7 20.2 30.2
88 18.3 14.2 21.4

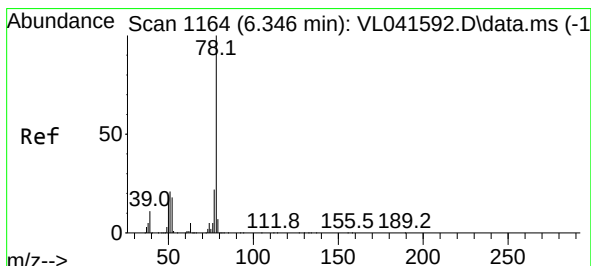
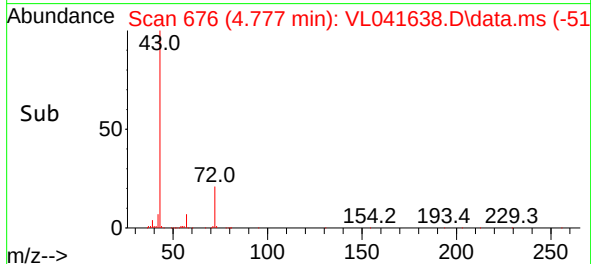
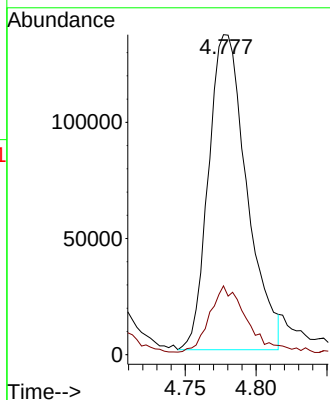
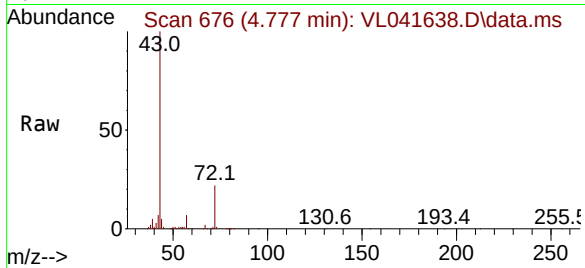




#34
2-Butanone
Concen: 1.612 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

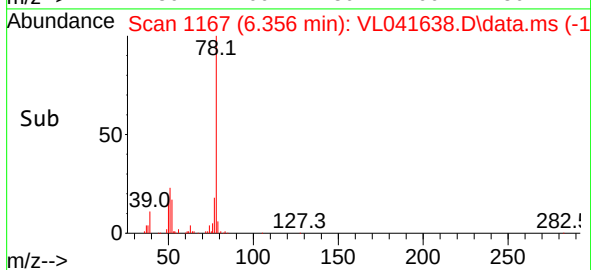
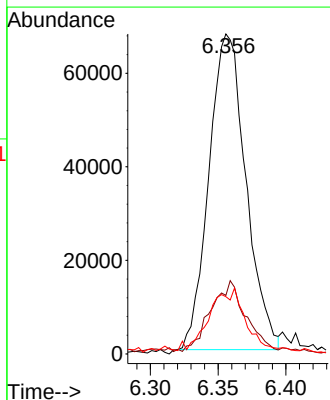
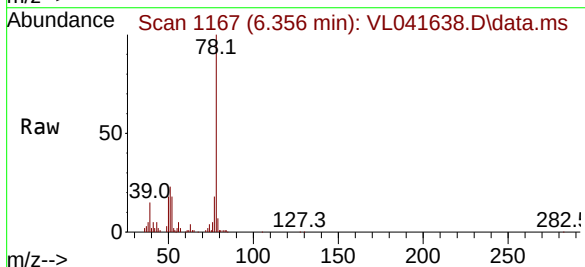
Instrument :
MSVOA_L
ClientSampleId :

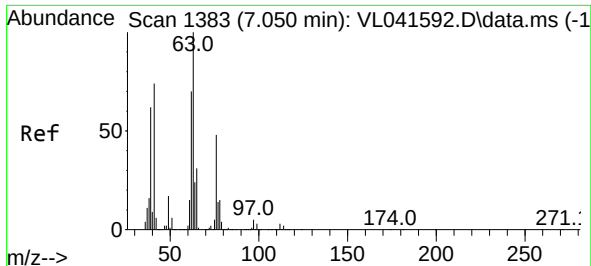
Tgt Ion: 43 Resp: 255536
Ion Ratio Lower Upper
43 100
72 25.1 16.8 25.2



#36
Benzene
Concen: 0.555 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. 0.010 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 78 Resp: 128157
Ion Ratio Lower Upper
78 100
77 17.3 17.8 26.6#
50 17.1 15.4 23.0





#39

1,2-Dichloropropane

Concen: 8.847 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.408 min

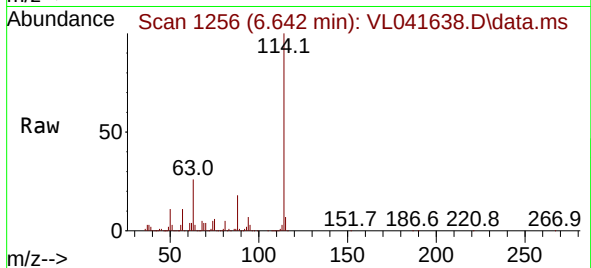
Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

ClientSampleId :



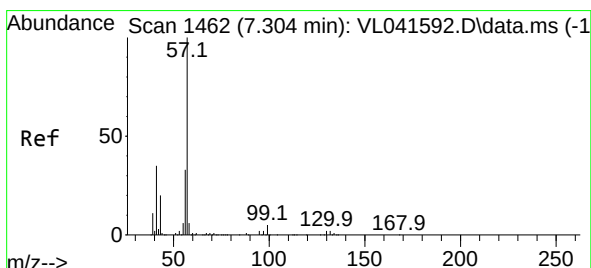
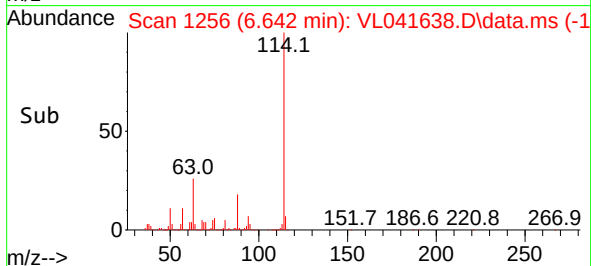
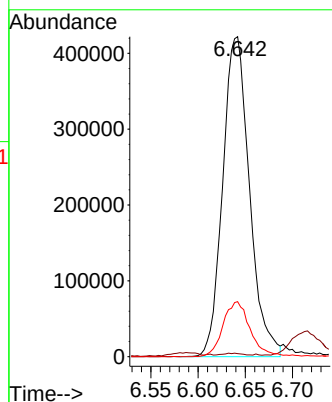
Tgt Ion: 63 Resp: 830965

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.2 56.2 84.2#



#44

2,2,4-Trimethylpentane

Concen: 0.052 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

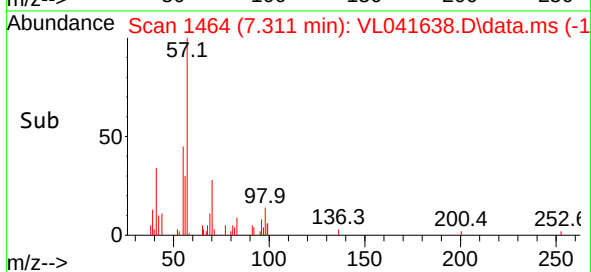
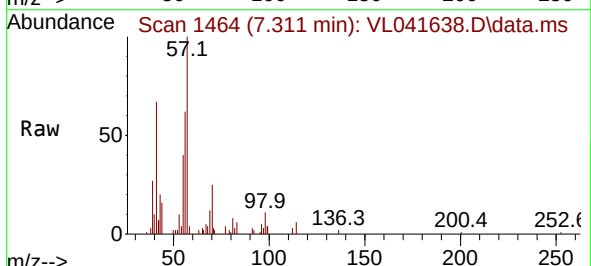
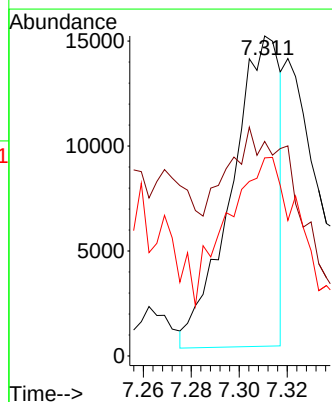
Tgt Ion: 57 Resp: 20832

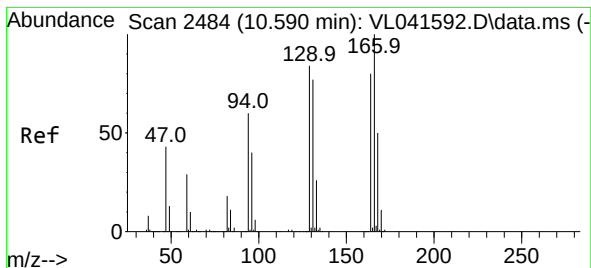
Ion Ratio Lower Upper

57 100

41 132.4 27.0 40.6#

56 109.9 25.5 38.3#





#52

Tetrachloroethene

Concen: 0.292 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. 0.013 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:164 Resp: 24429

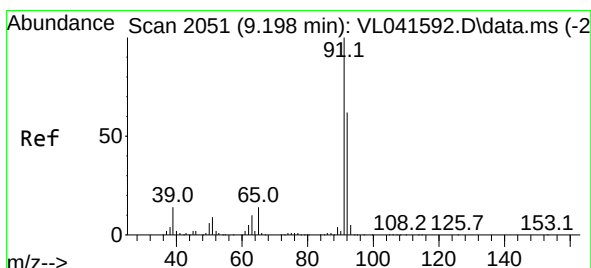
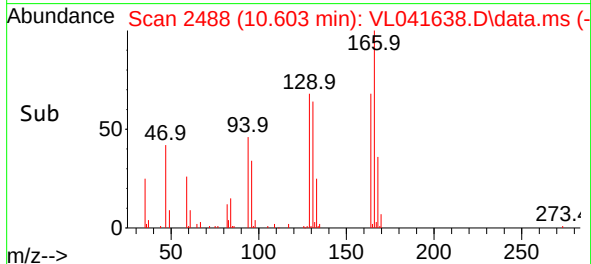
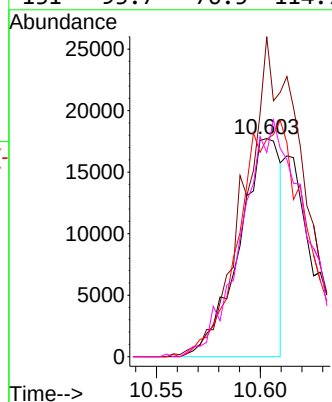
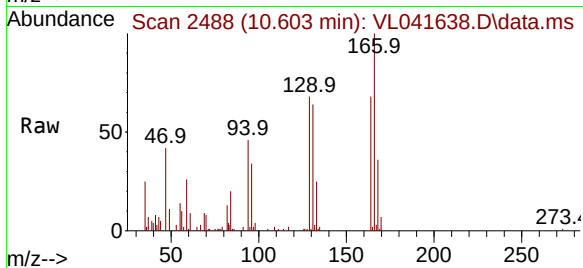
Ion Ratio Lower Upper

164 100

166 145.7 99.4 149.2

129 99.8 83.5 125.3

131 93.7 76.5 114.7



#53

Toluene

Concen: 2.102 ppbv

RT: 9.211 min Scan# 2055

Delta R.T. 0.013 min

Lab File: VL041638.D

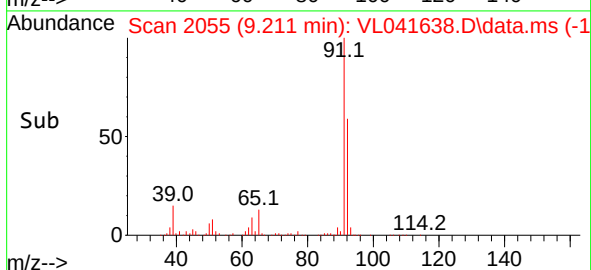
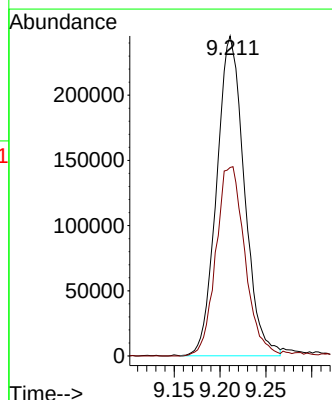
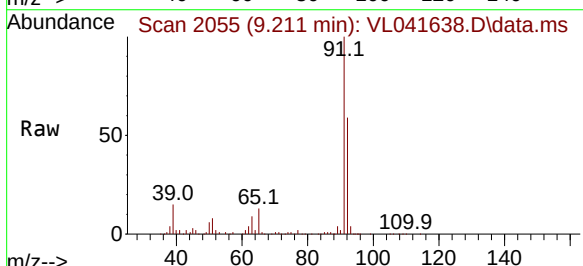
Acq: 10 Oct 2024 12:10

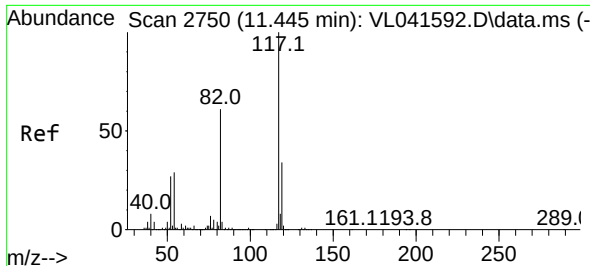
Tgt Ion: 91 Resp: 515266

Ion Ratio Lower Upper

91 100

92 62.9 48.9 73.3

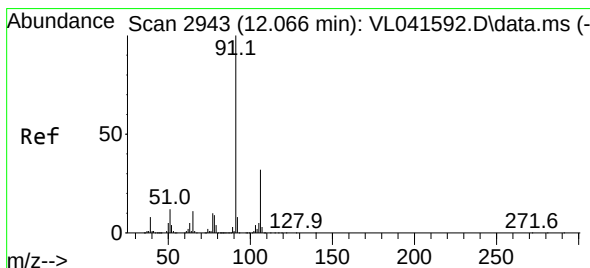
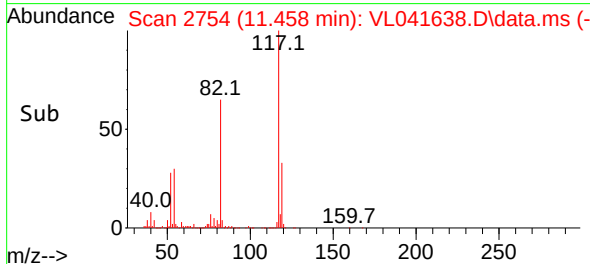
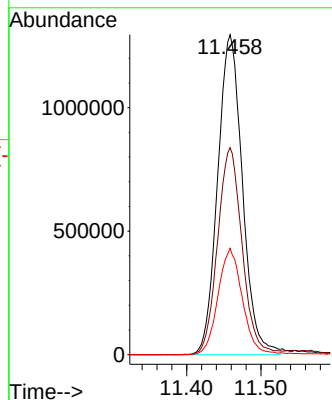
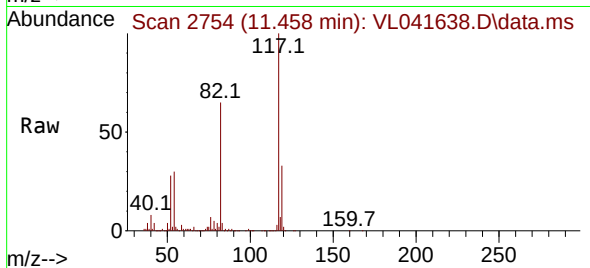




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

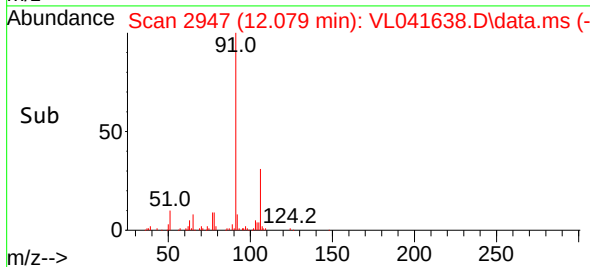
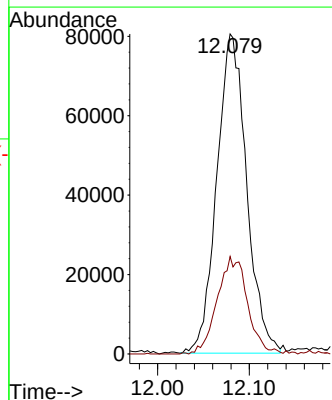
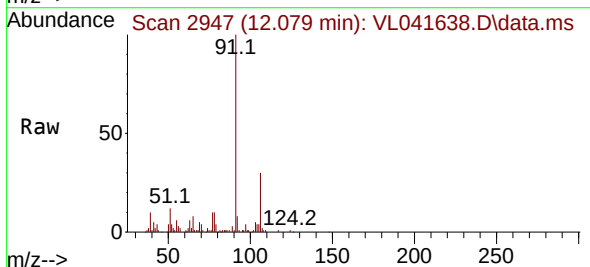
Instrument :
MSVOA_L
ClientSampleId :

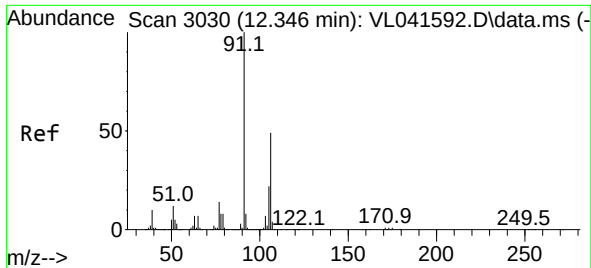
Tgt Ion:117 Resp: 3004462
Ion Ratio Lower Upper
117 100
82 64.5 49.4 74.2
119 33.3 24.4 36.6



#58
Ethyl Benzene
Concen: 0.564 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. 0.013 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 91 Resp: 181302
Ion Ratio Lower Upper
91 100
106 30.6 25.8 38.6





#59

m/p-Xylene

Concen: 1.661 ppbv

RT: 12.333 min Scan# 3030

Delta R.T. -0.013 min

Lab File: VL041638.D

Acq: 10 Oct 2024 12:10

Instrument :

MSVOA_L

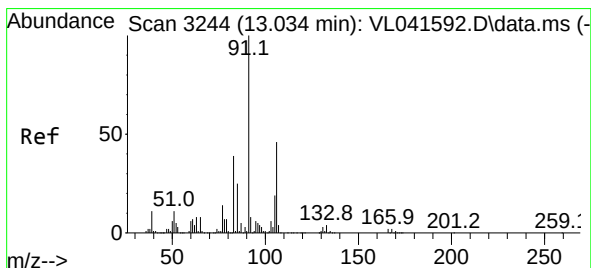
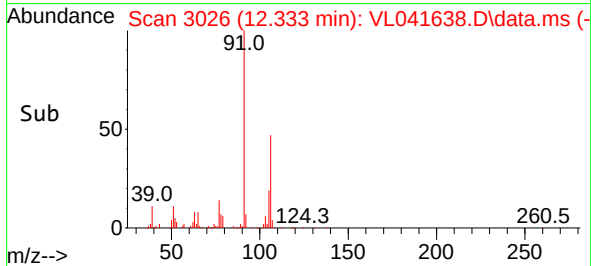
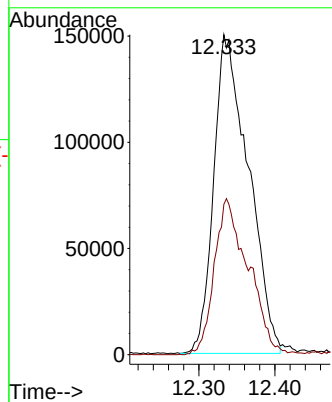
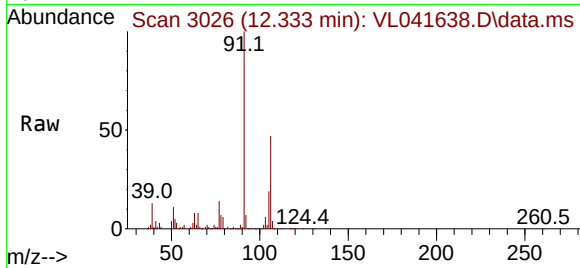
ClientSampleId :

Tgt Ion: 91 Resp: 475547

Ion Ratio Lower Upper

91 100

106 48.0 36.8 55.2



#60

o-Xylene

Concen: 0.223 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.013 min

Lab File: VL041638.D

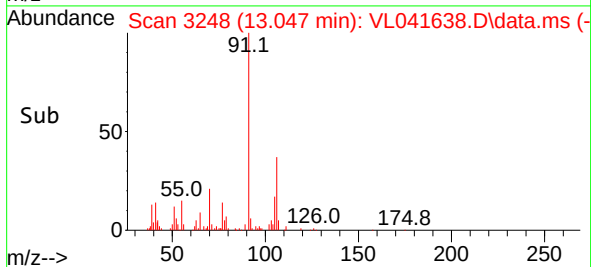
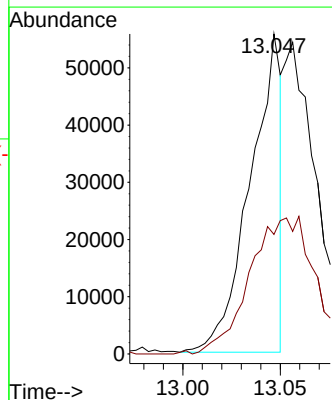
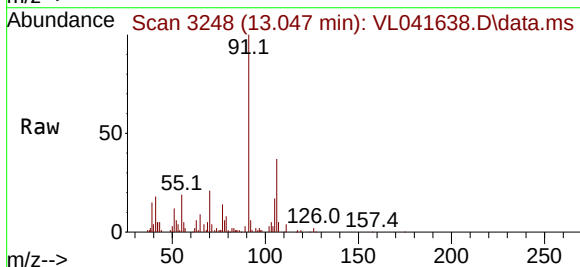
Acq: 10 Oct 2024 12:10

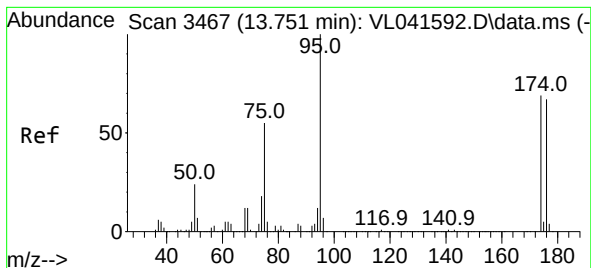
Tgt Ion: 91 Resp: 61276

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#

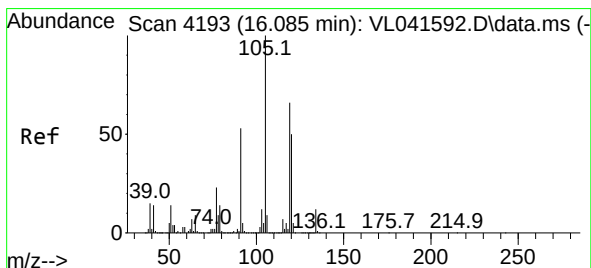
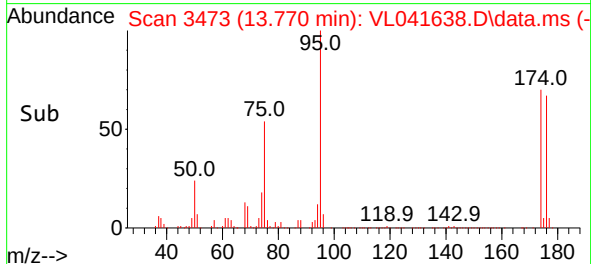
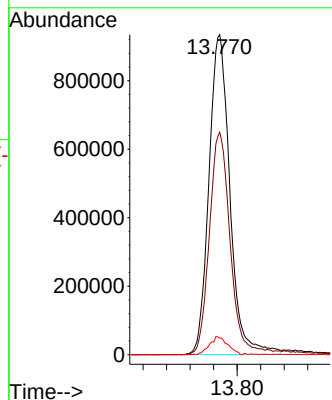
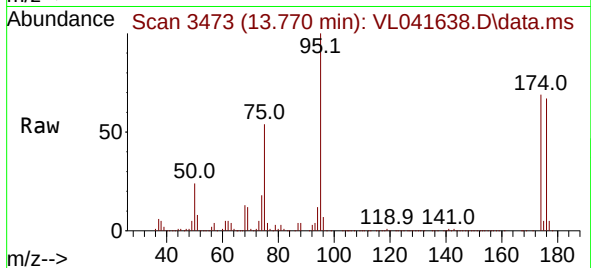




#68
1-Bromo-4-Fluorobenzene
Concen: 10.451 ppbv
RT: 13.770 min Scan# 3467
Delta R.T. 0.019 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 2311429
Ion Ratio Lower Upper
95 100
174 70.7 55.8 83.8
175 5.0 4.1 6.1



#74
1,2,4-Trimethylbenzene
Concen: 0.066 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.023 min
Lab File: VL041638.D
Acq: 10 Oct 2024 12:10

Tgt Ion: 105 Resp: 21970
Ion Ratio Lower Upper
105 100
120 40.5 39.9 59.9
91 7.0 42.6 63.8#
77 14.0 18.2 27.2#

