

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081224\
 Data File : VL041532.D
 Acq On : 12 Aug 2024 12:03
 Operator : SY/MD
 Sample : P3496-07DL2 50X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 02:12:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 13 02:09:20 2024
 Response via : Initial Calibration

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

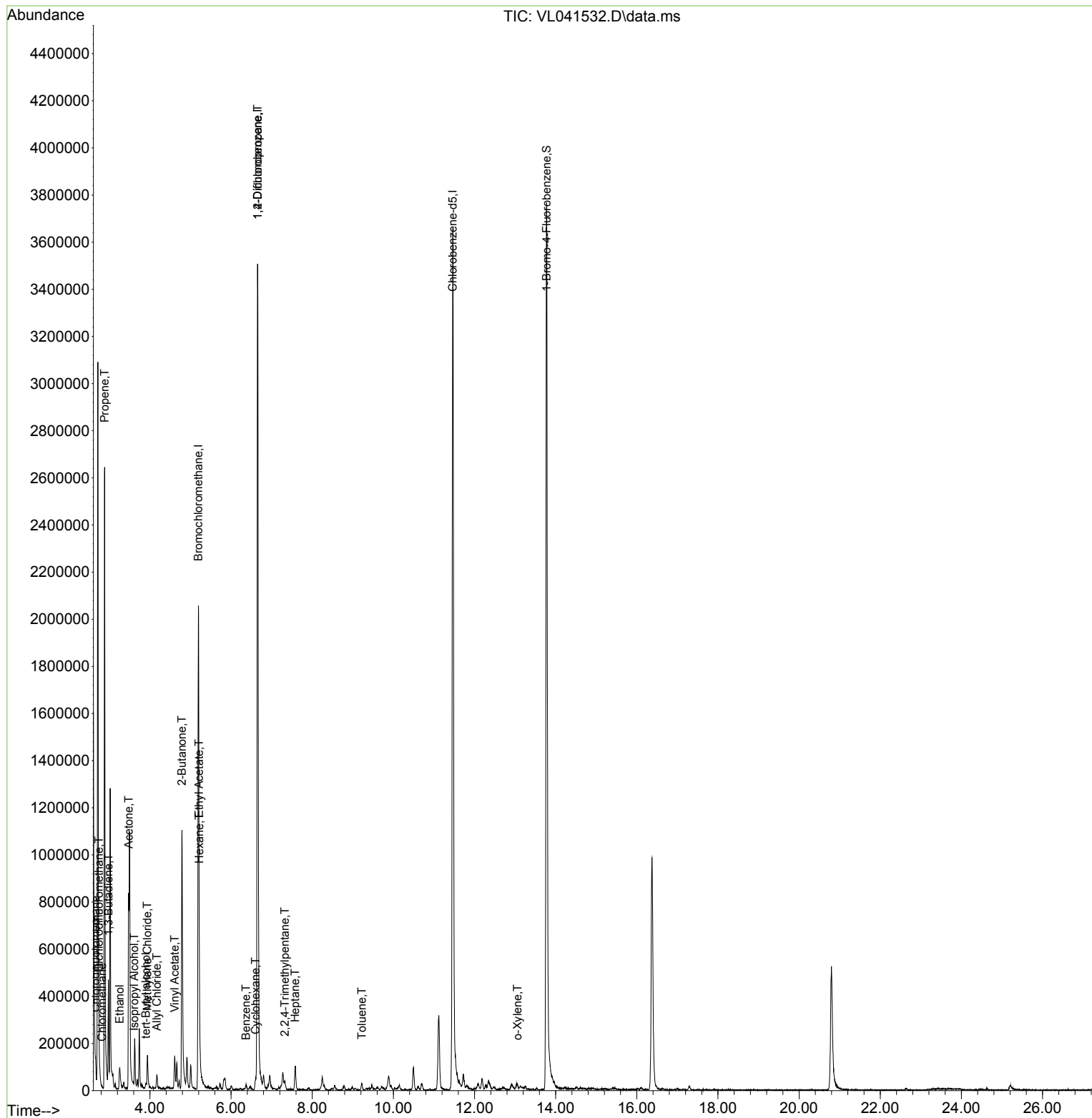
Internal Standards						
1) Bromochloromethane	5.195	49	1006758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2678035	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2484620	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1890390	9.887	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	33762	0.195	ppbv	89
3) Chlorodifluoromethane	2.661	51	41748	0.348	ppbv #	67
4) Chloromethane	2.819	50	2870	0.045	ppbv	92
9) Propene	2.883	41	655191	11.900	ppbv	96
10) Heptane	7.581	43	35610	0.288	ppbv	100
13) Ethanol	3.256	45	119519	24.288	ppbv	90
15) Acetone	3.475	43	1084015	9.477	ppbv	98
16) 1,3-Butadiene	2.976	39	96945	1.586	ppbv #	19
17) tert-Butyl alcohol	3.899	59	6839	0.066	ppbv #	72
19) Isopropyl Alcohol	3.610	45	2633	0.039	ppbv #	93
20) Methylene Chloride	3.938	84	42619	0.999	ppbv	98
21) Allyl Chloride	4.169	41	8163	0.109	ppbv #	30
23) Vinyl Acetate	4.613	43	61662	0.706	ppbv #	1
25) Ethyl Acetate	5.211	43	16705	0.074	ppbv #	88
26) Hexane	5.214	57	42140	0.447	ppbv #	2
30) Cyclohexane	6.603	84	4807	0.063	ppbv #	1
34) 2-Butanone	4.790	43	1380496	10.656	ppbv	100
36) Benzene	6.368	78	7523	0.038	ppbv #	90
39) 1,2-Dichloropropane	6.655	63	658812	8.794	ppbv #	26
44) 2,2,4-Trimethylpentane	7.327	57	10780	0.033	ppbv #	42
53) Toluene	9.224	91	8943	0.041	ppbv #	54
60) o-Xylene	13.059	91	7240	0.031	ppbv #	30

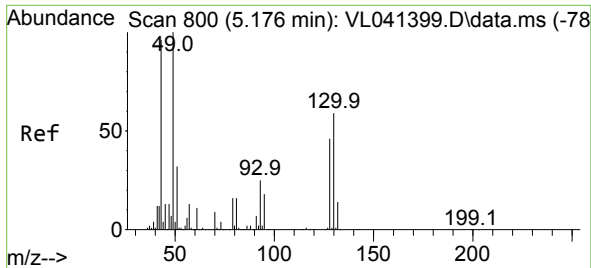
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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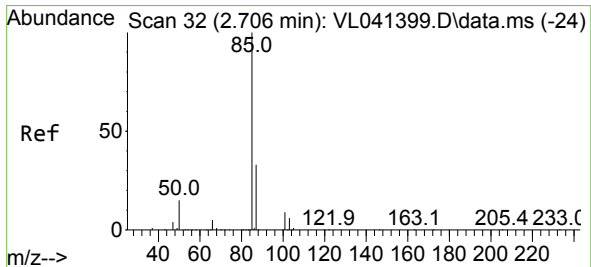
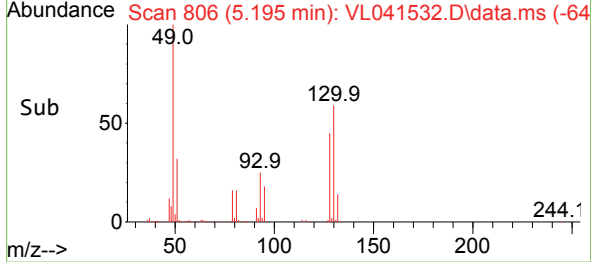
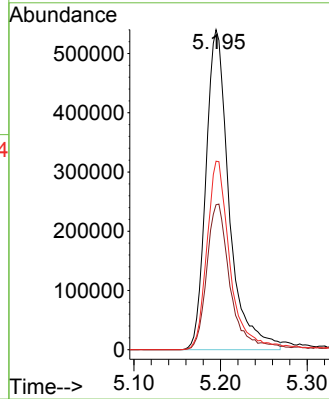
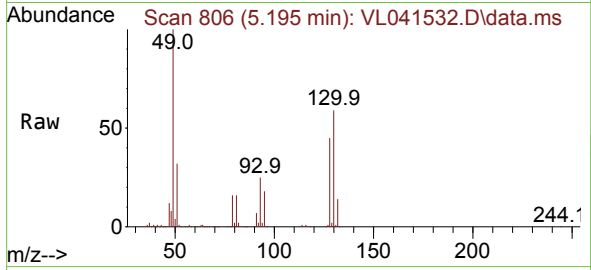




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.007 min
 Lab File: VL041532.D
 Acq: 12 Aug 2024 12:03

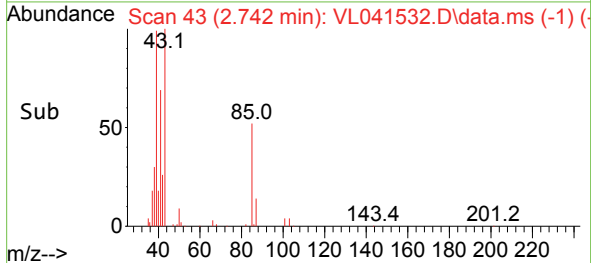
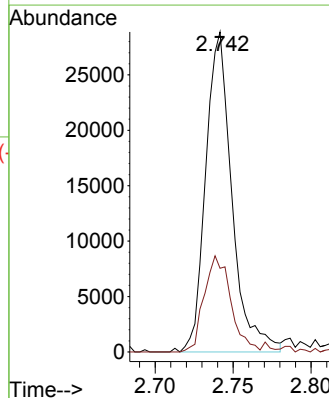
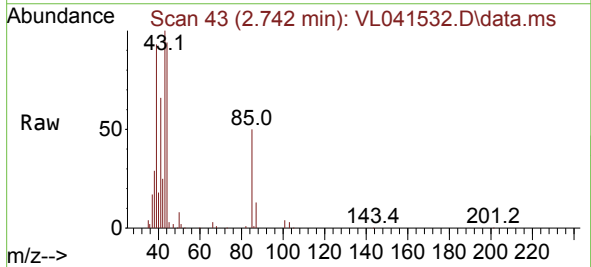
Instrument :
 MSVOA_L
 ClientSampleId :

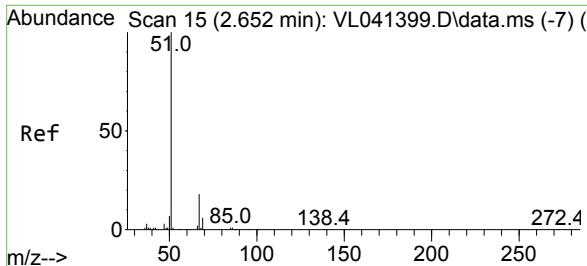
Tgt Ion: 49 Resp: 1006758
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.8 71.4
 130 60.9 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.195 ppbv
 RT: 2.742 min Scan# 43
 Delta R.T. 0.013 min
 Lab File: VL041532.D
 Acq: 12 Aug 2024 12:03

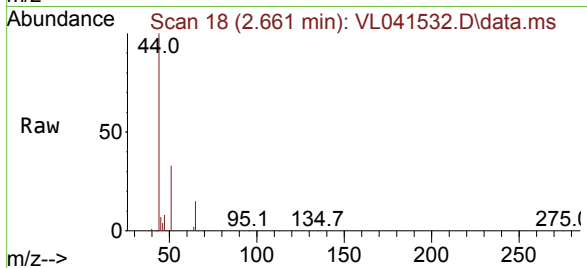
Tgt Ion: 85 Resp: 33762
 Ion Ratio Lower Upper
 85 100
 87 26.2 26.0 39.0



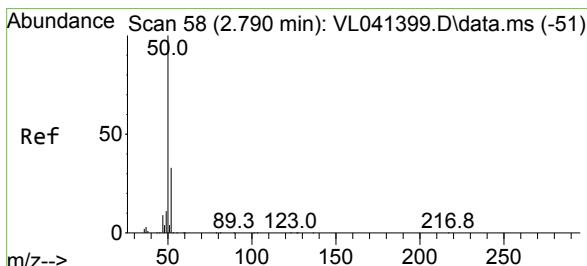
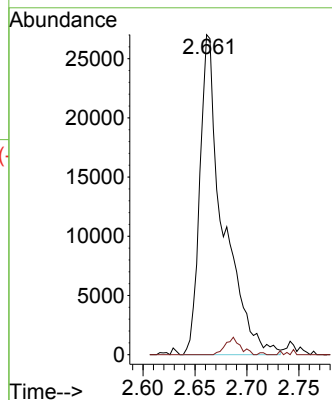
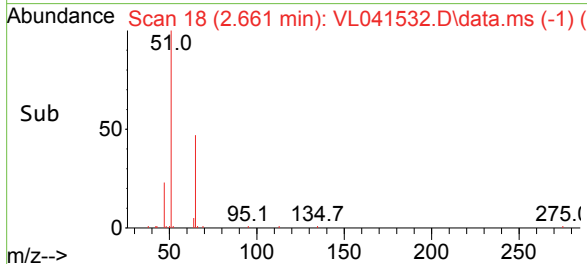


#3
Chlorodifluoromethane
Concen: 0.348 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Instrument :
MSVOA_L
ClientSampleId :

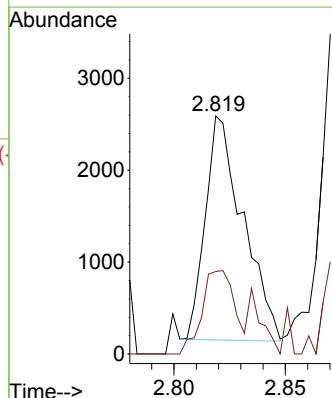
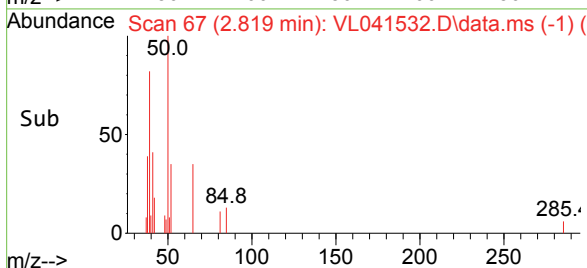
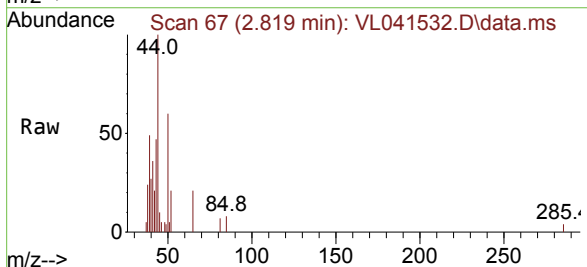


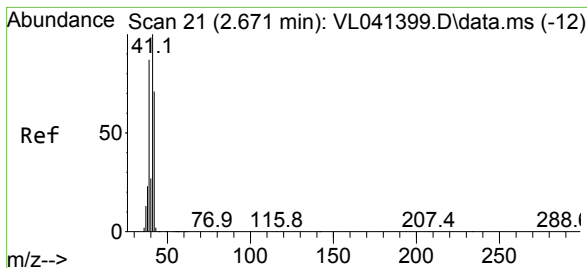
Tgt Ion: 51 Resp: 41748
Ion Ratio Lower Upper
51 100
67 3.6 14.5 21.7#



#4
Chloromethane
Concen: 0.045 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.006 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 50 Resp: 2870
Ion Ratio Lower Upper
50 100
52 37.0 26.1 39.1





#9

Propene

Concen: 11.900 ppbv

RT: 2.883 min Scan# 81

Delta R.T. 0.190 min

Lab File: VL041532.D

Acq: 12 Aug 2024 12:03

Instrument :

MSVOA_L

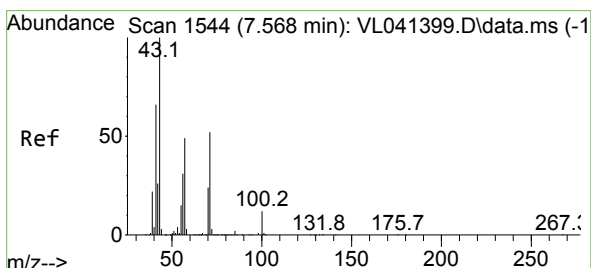
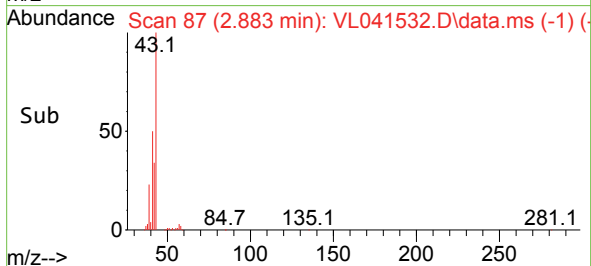
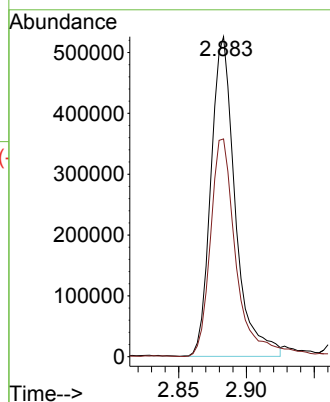
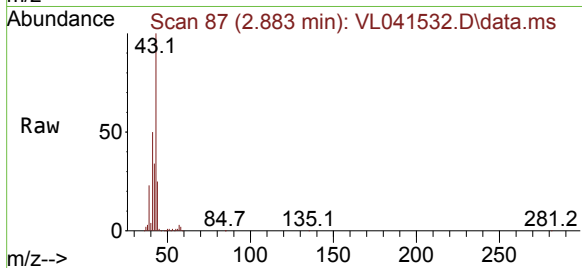
ClientSampleId :

Tgt Ion: 41 Resp: 655191

Ion Ratio Lower Upper

41 100

42 73.0 55.9 83.9



#10

Heptane

Concen: 0.288 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041532.D

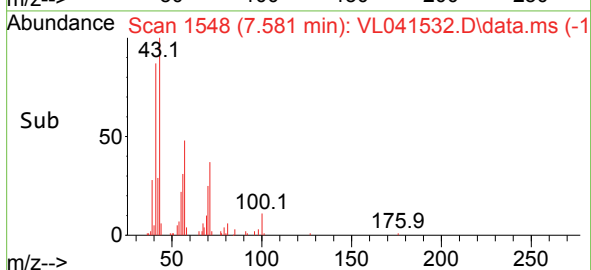
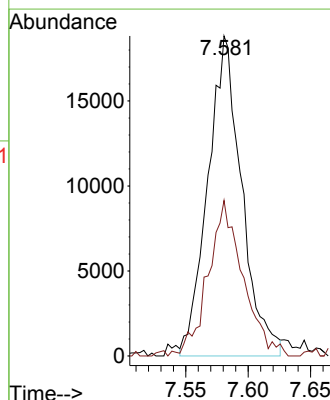
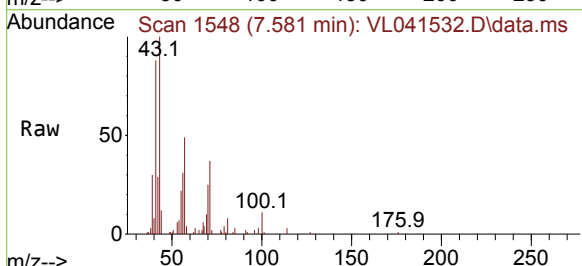
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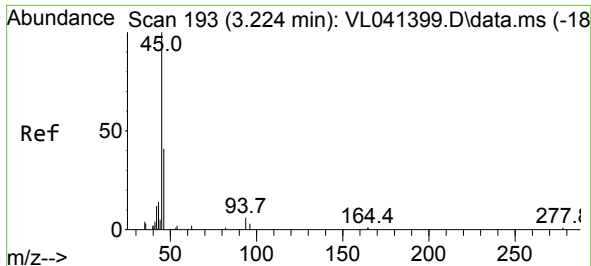
Tgt Ion: 43 Resp: 35610

Ion Ratio Lower Upper

43 100

57 50.4 40.5 60.7

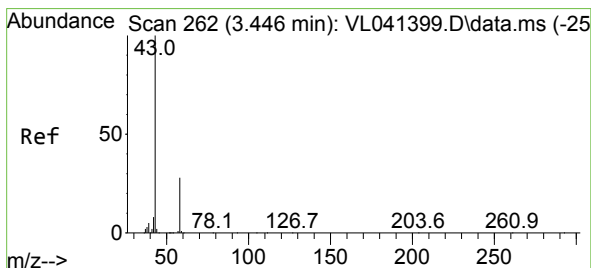
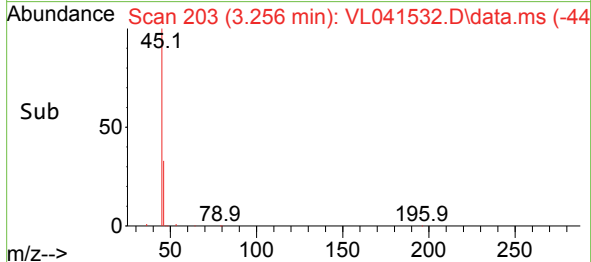
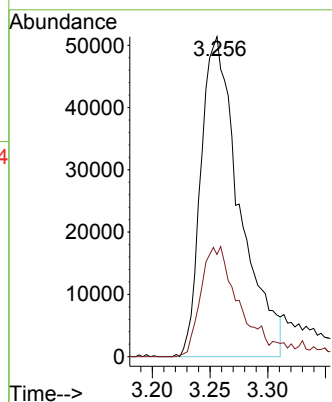
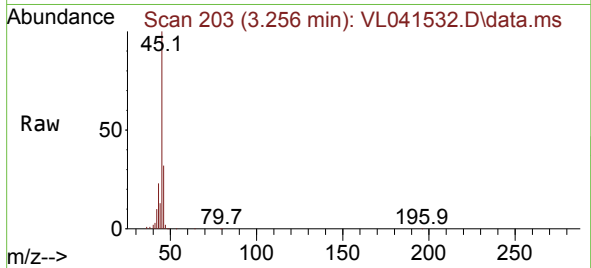




#13
Ethanol
Concen: 24.288 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.013 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

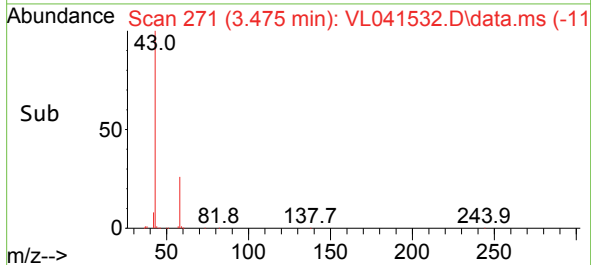
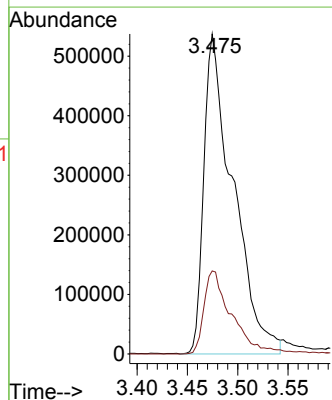
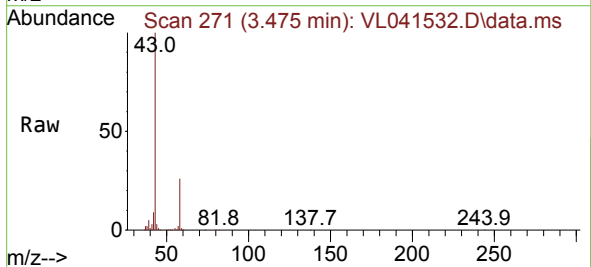
Instrument :
MSVOA_L
ClientSampleId :

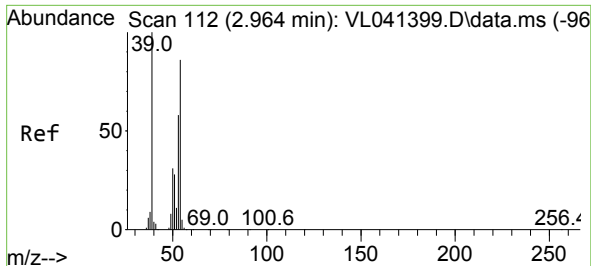
Tgt Ion: 45 Resp: 119519
Ion Ratio Lower Upper
45 100
46 39.2 13.4 53.4



#15
Acetone
Concen: 9.477 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.006 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 43 Resp: 1084015
Ion Ratio Lower Upper
43 100
58 25.8 21.4 32.2

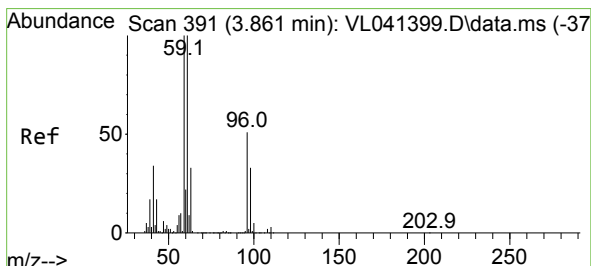
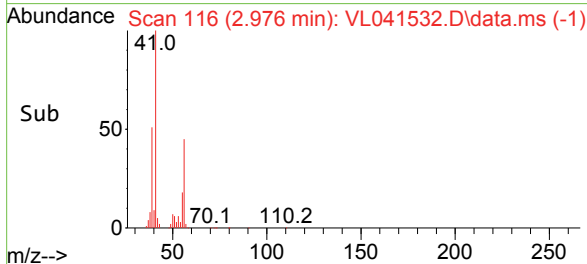
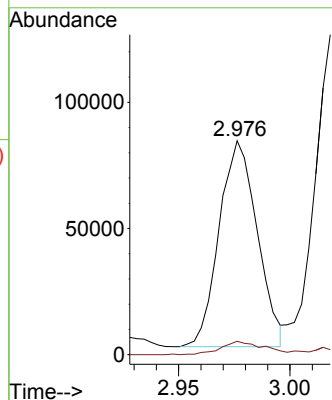
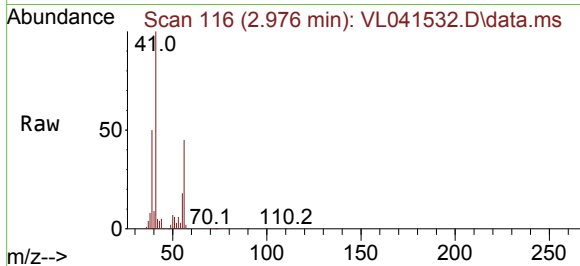




#16
1,3-Butadiene
Concen: 1.586 ppbv
RT: 2.976 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

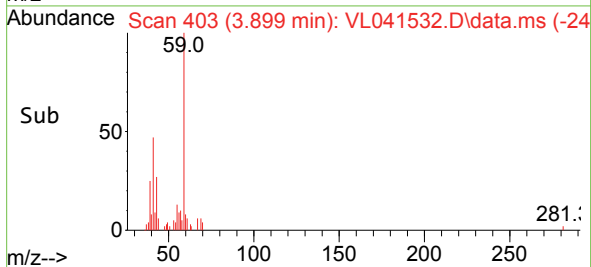
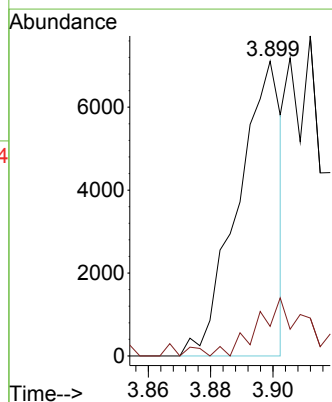
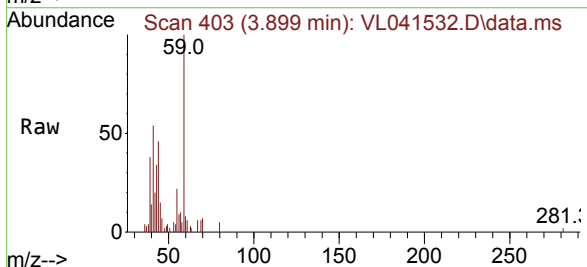
Instrument :
MSVOA_L
ClientSampleId :

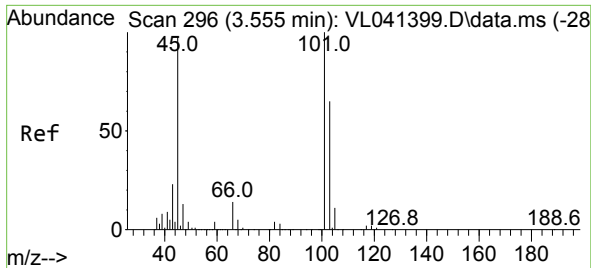
Tgt Ion: 39 Resp: 96945
Ion Ratio Lower Upper
39 100
54 7.6 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.066 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.022 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 59 Resp: 6839
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

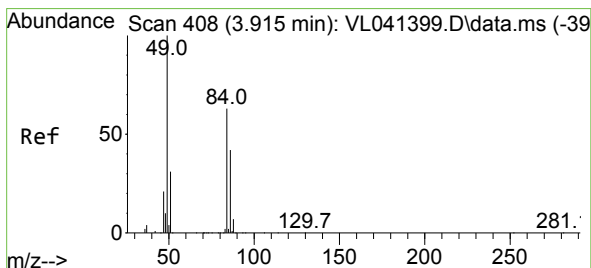
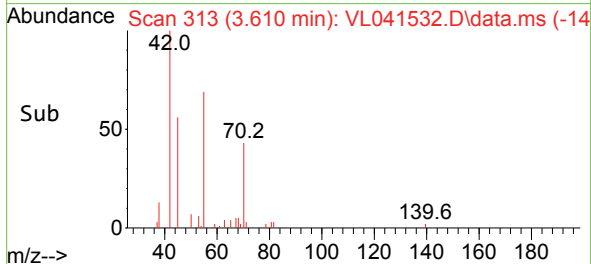
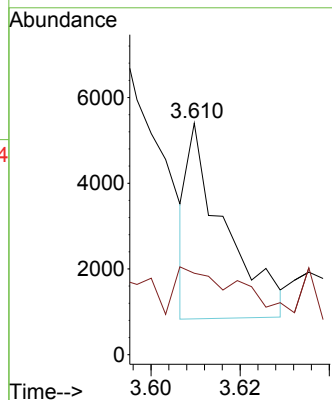
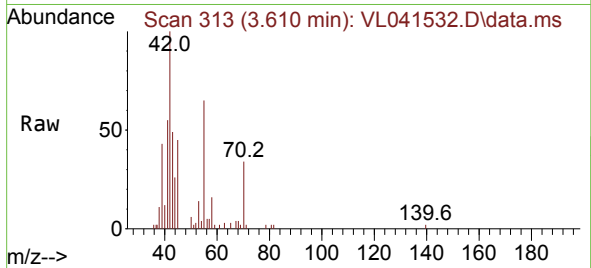




#19
Isopropyl Alcohol
Concen: 0.039 ppbv
RT: 3.610 min Scan# 313
Delta R.T. 0.035 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

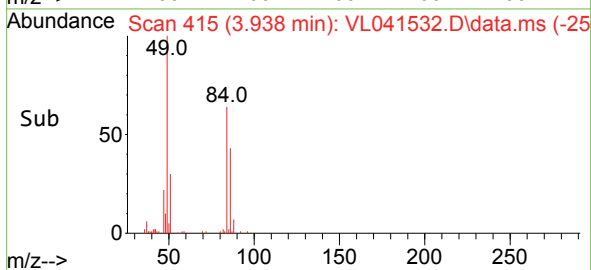
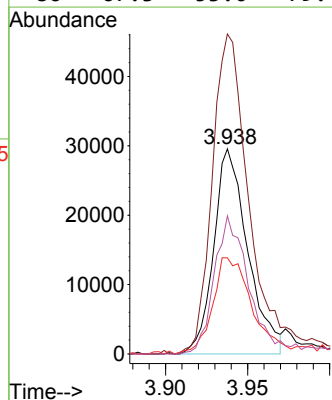
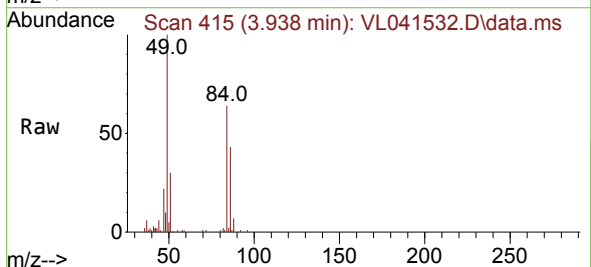
Instrument :
MSVOA_L
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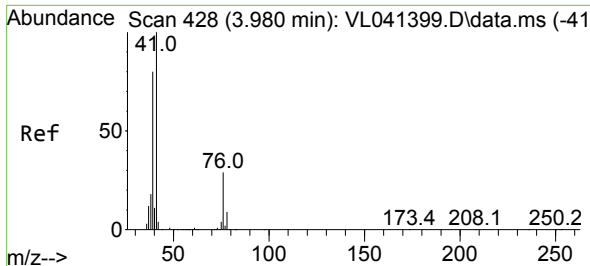
Tgt Ion: 45 Resp: 2633
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#



#20
Methylene Chloride
Concen: 0.999 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.006 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 84 Resp: 42619
Ion Ratio Lower Upper
84 100
49 155.4 126.6 190.0
51 46.1 38.6 58.0
86 67.3 53.0 79.4

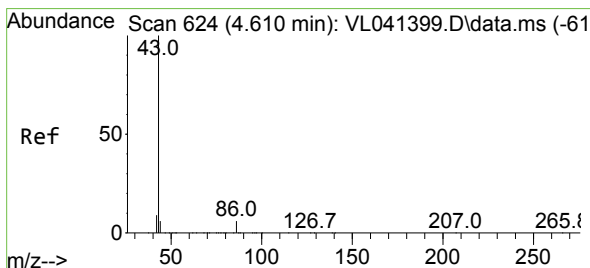
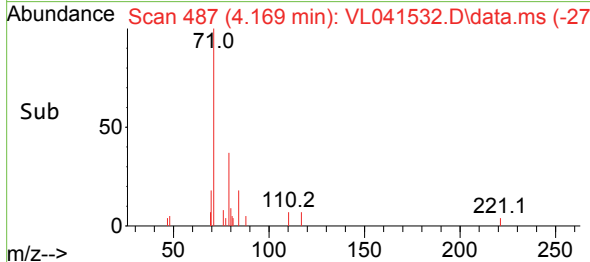
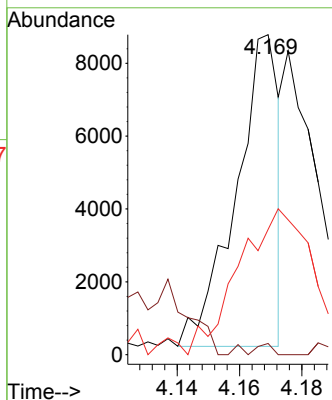
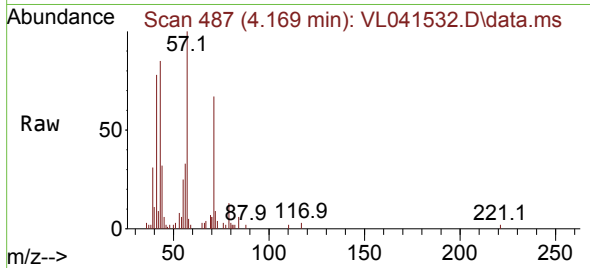




#21
 Allyl Chloride
 Concen: 0.109 ppbv
 RT: 4.169 min Scan# 41
 Delta R.T. 0.174 min
 Lab File: VL041532.D
 Acq: 12 Aug 2024 12:03

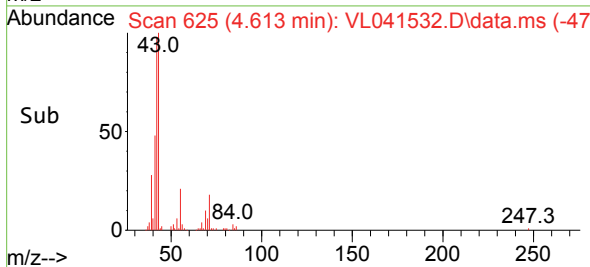
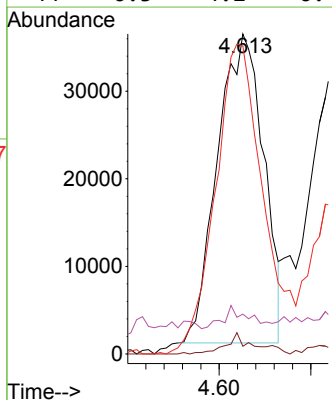
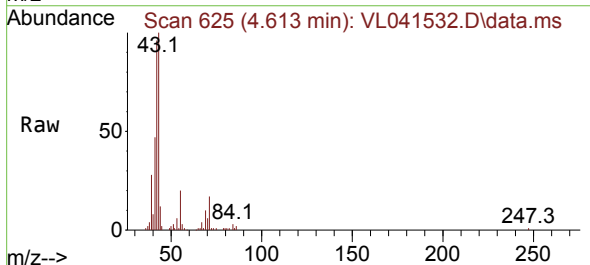
Instrument :
 MSVOA_L
 ClientSampleId :

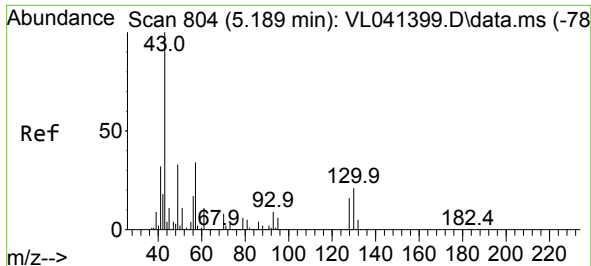
Tgt Ion: 41 Resp: 8163
 Ion Ratio Lower Upper
 41 100
 76 36.0 23.7 35.5#
 39 0.0 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.706 ppbv
 RT: 4.613 min Scan# 625
 Delta R.T. -0.013 min
 Lab File: VL041532.D
 Acq: 12 Aug 2024 12:03

Tgt Ion: 43 Resp: 61662
 Ion Ratio Lower Upper
 43 100
 86 2.5 4.6 6.8#
 42 97.8 7.9 11.9#
 44 6.3 4.2 6.4

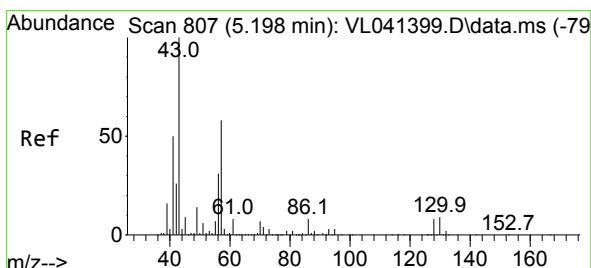
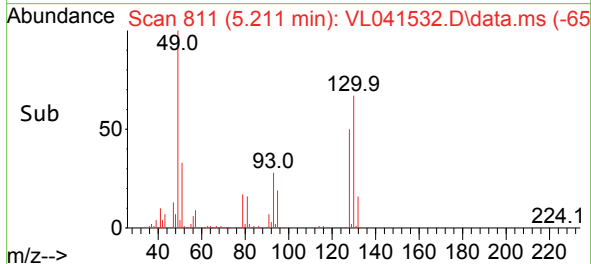
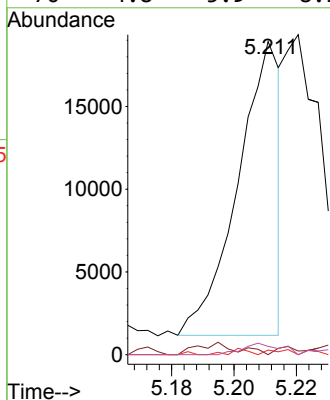
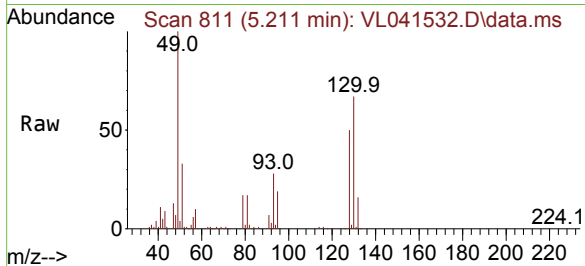




#25
Ethyl Acetate
Concen: 0.074 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

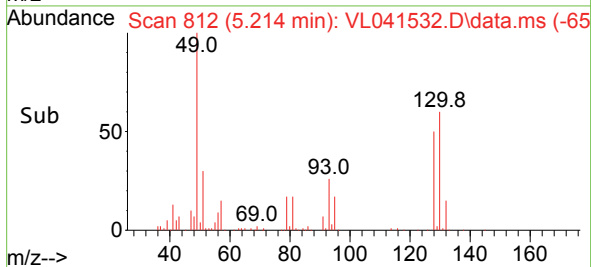
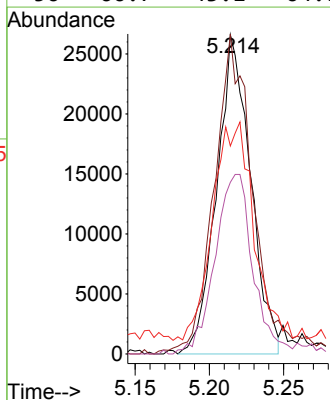
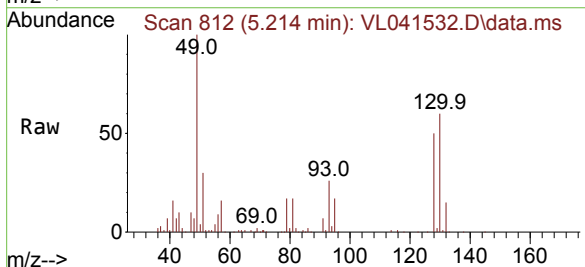
Instrument :
MSVOA_L
ClientSampleId :

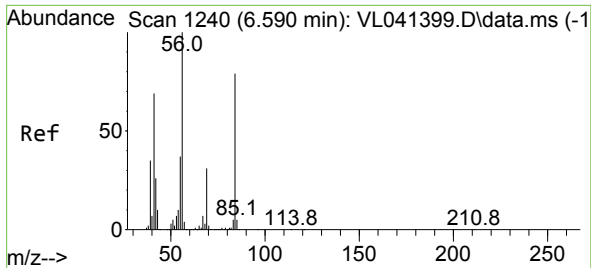
Tgt Ion: 43	Resp: 16705
Ion Ratio	Lower Upper
43 100	
45 7.7	8.5 12.7#
61 2.7	8.0 12.0#
70 4.8	5.9 8.9#



#26
Hexane
Concen: 0.447 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt	Ion: 57	Resp:	42140
Ion	Ratio	Lower	Upper
57	100		
41	120.3	74.0	111.0#
43	0.0	193.6	290.4#
56	66.7	43.1	64.7#

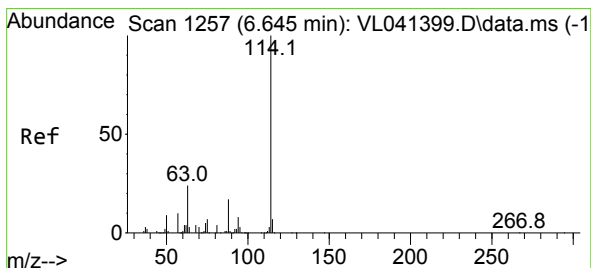
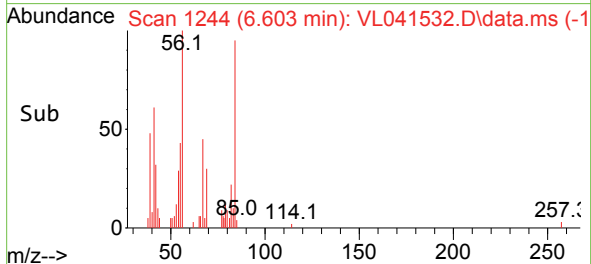
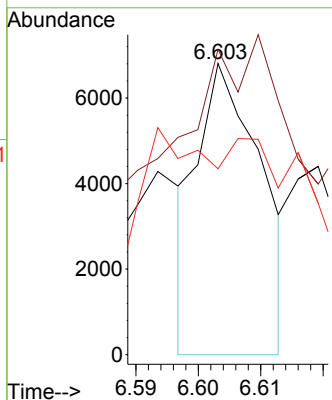
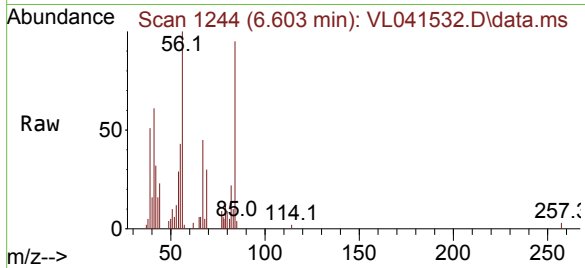




#30
Cyclohexane
Concen: 0.063 ppbv
RT: 6.603 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

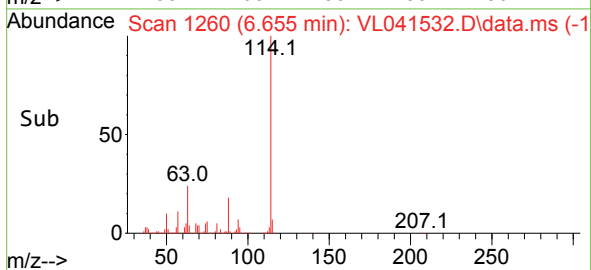
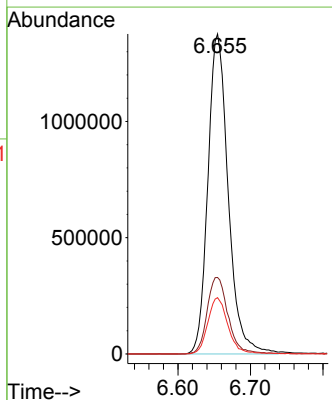
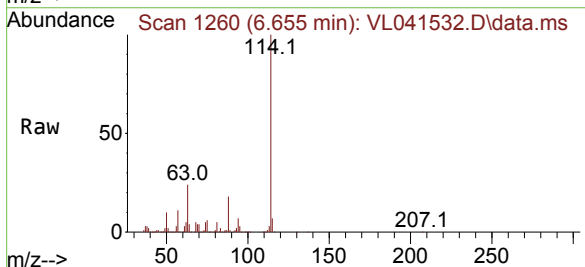
Instrument :
MSVOA_L
ClientSampleId :

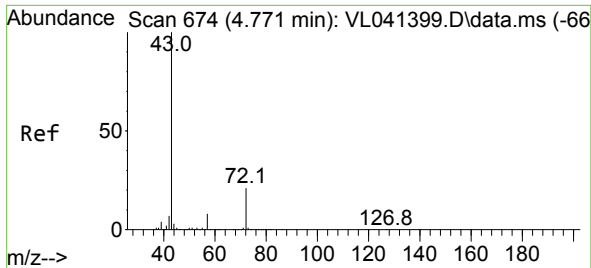
Tgt Ion: 84 Resp: 4807
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 0.0 70.3 105.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.003 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 114 Resp: 2678035
Ion Ratio Lower Upper
114 100
63 24.8 20.3 30.5
88 17.7 14.3 21.5

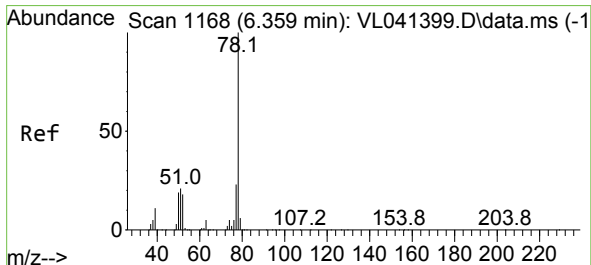
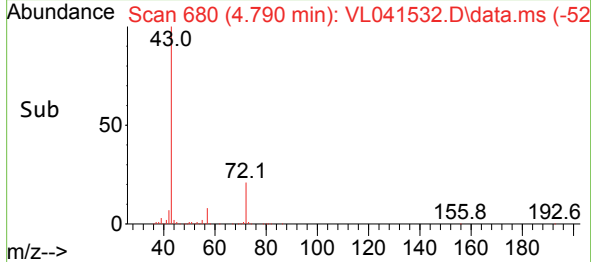
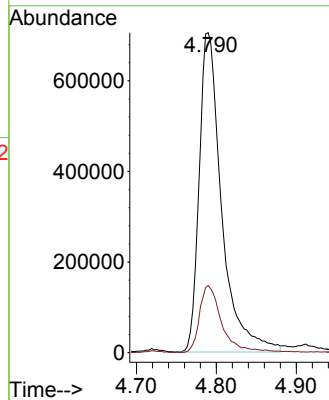
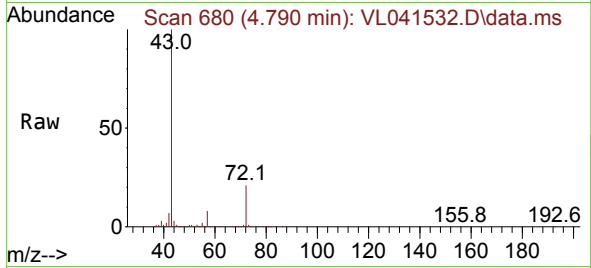




#34
2-Butanone
Concen: 10.656 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

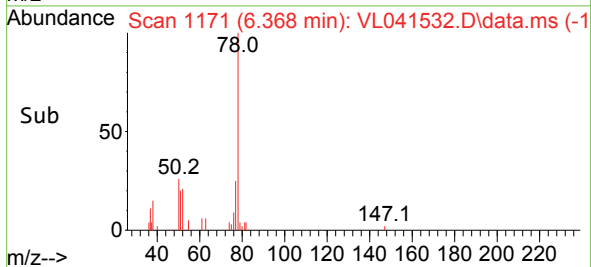
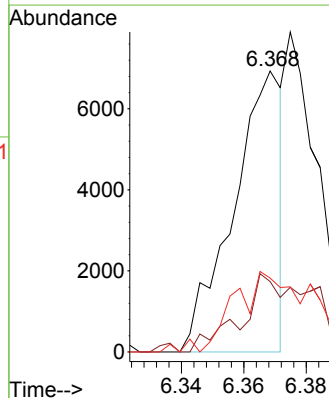
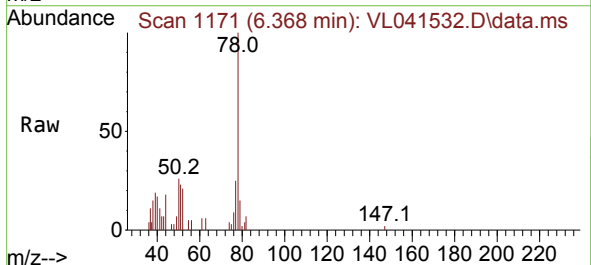
Instrument :
MSVOA_L
ClientSampleId :

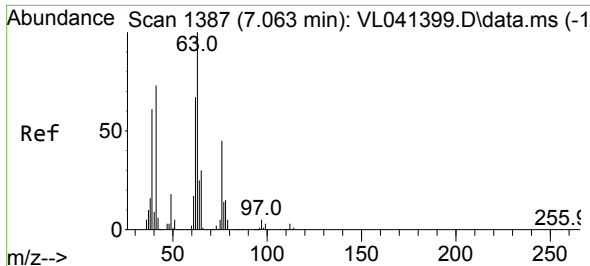
Tgt Ion: 43 Resp: 1380496
Ion Ratio Lower Upper
43 100
72 21.4 17.3 25.9



#36
Benzene
Concen: 0.038 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 78 Resp: 7523
Ion Ratio Lower Upper
78 100
77 25.1 18.1 27.1
50 26.3 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 8.794 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.418 min

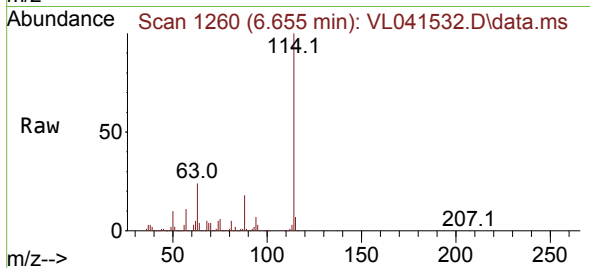
Lab File: VL041532.D

Acq: 12 Aug 2024 12:03

Instrument :

MSVOA_L

ClientSampleId :



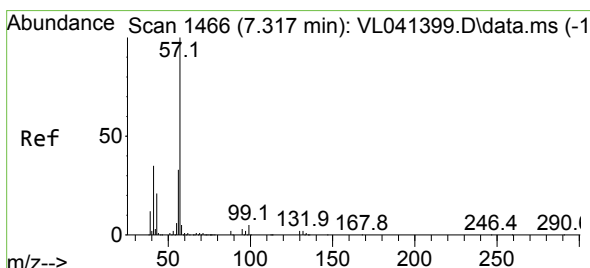
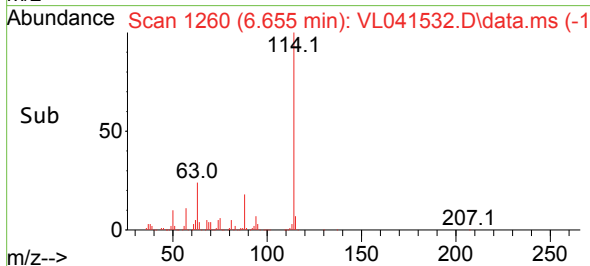
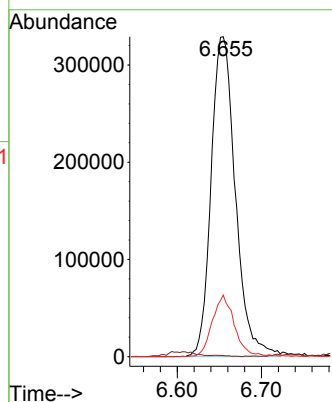
Tgt Ion: 63 Resp: 658812

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 19.2 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. -0.000 min

Lab File: VL041532.D

Acq: 12 Aug 2024 12:03

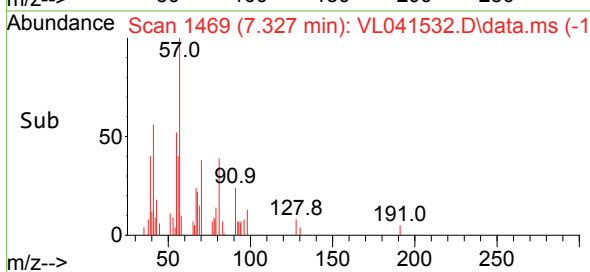
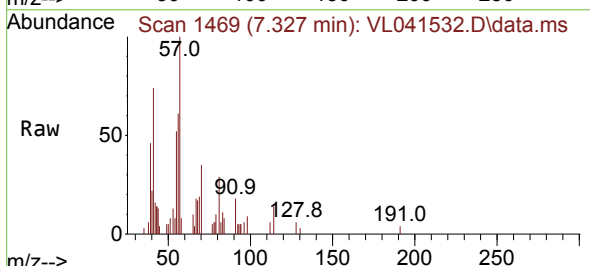
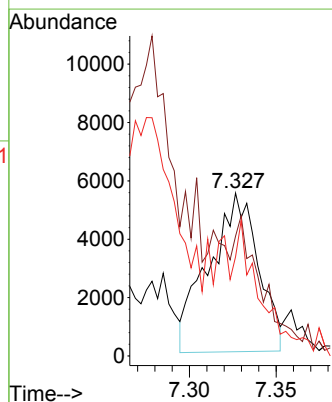
Tgt Ion: 57 Resp: 10780

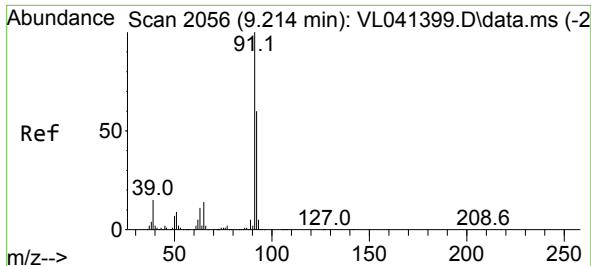
Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 0.0 25.2 37.8#

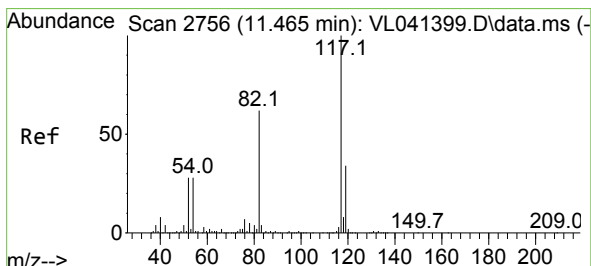
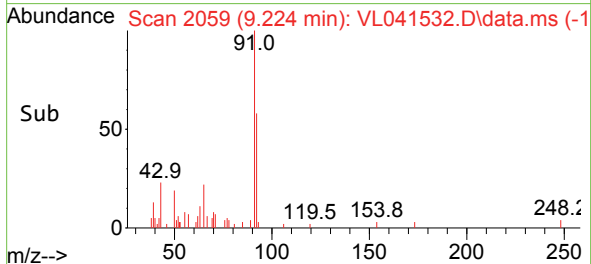
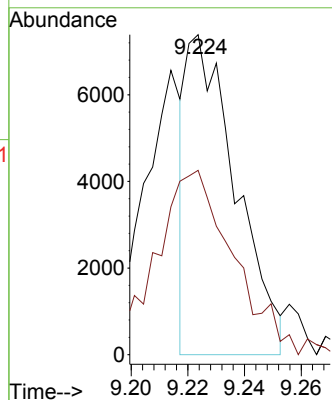
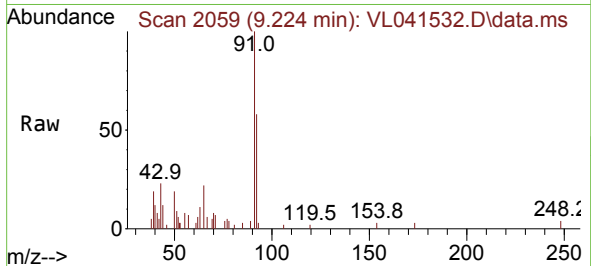




#53
Toluene
Concen: 0.041 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

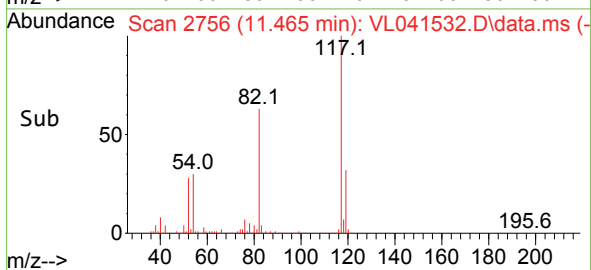
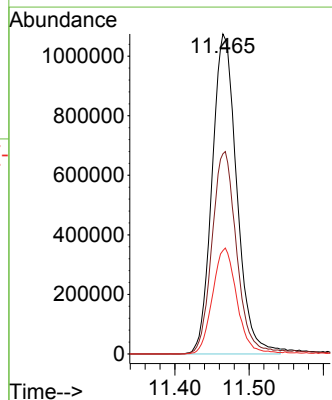
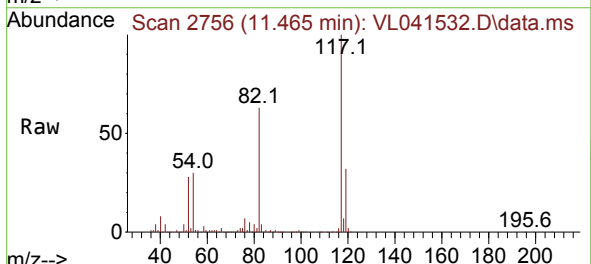
Instrument :
MSVOA_L
ClientSampleId :

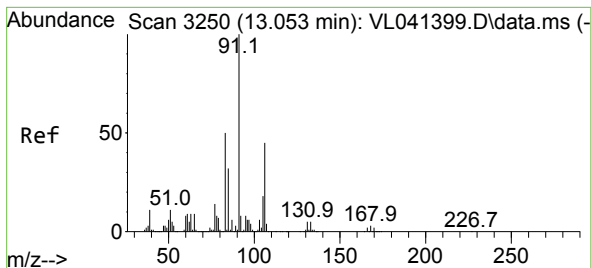
Tgt Ion: 91 Resp: 8943
Ion Ratio Lower Upper
91 100
92 95.7 48.7 73.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.000 min
Lab File: VL041532.D
Acq: 12 Aug 2024 12:03

Tgt Ion: 117 Resp: 2484620
Ion Ratio Lower Upper
117 100
82 65.0 51.0 76.6
119 33.1 45.2 67.8#





#60

o-Xylene

Concen: 0.031 ppbv

RT: 13.059 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL041532.D

Acq: 12 Aug 2024 12:03

Instrument :

MSVOA_L

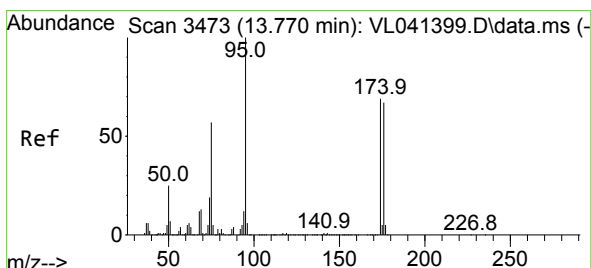
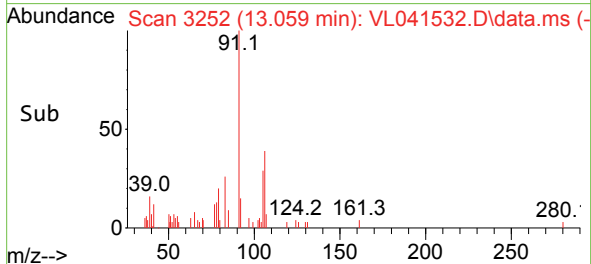
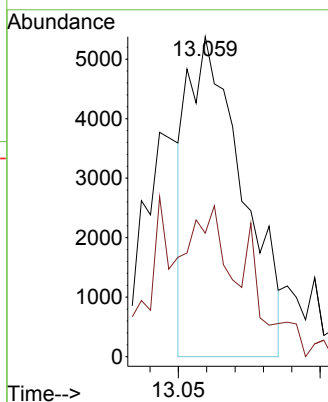
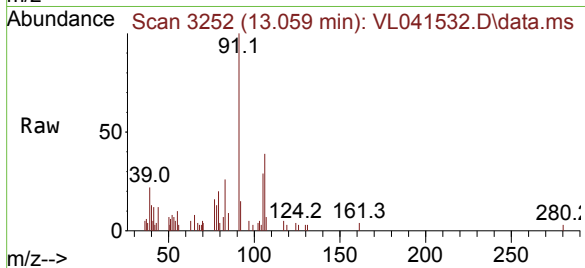
ClientSampleId :

Tgt Ion: 91 Resp: 7240

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.887 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041532.D

Acq: 12 Aug 2024 12:03

Tgt Ion: 95 Resp: 1890390

Ion Ratio Lower Upper

95 100

174 71.1 56.3 84.5

175 5.2 4.0 6.0

