

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072224\
 Data File : VL041388.D
 Acq On : 22 Jul 2024 16:09
 Operator : SY/MD
 Sample : P3259-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 23 03:16:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL062624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 23 02:50:01 2024
 Response via : Initial Calibration

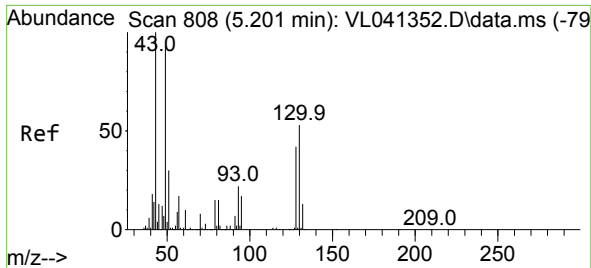
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.205	49	965268	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2525164	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2145236	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1606564	9.992	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.755	85	48813	0.296	ppbv	97
3) Chlorodifluoromethane	2.678	51	1733128	10.413	ppbv #	61
4) Chloromethane	2.845	50	14893	0.234	ppbv	96
9) Propene	2.729	41	140640	2.442	ppbv #	64
10) Heptane	7.587	43	9196	0.068	ppbv #	73
11) Trichlorofluoromethane	3.581	101	36824	0.230	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.079	101	7116	0.063	ppbv #	79
13) Ethanol	3.269	45	142671	11.166	ppbv	95
15) Acetone	3.488	43	10419127	81.729	ppbv #	87
16) 1,3-Butadiene	2.993	39	5582	0.092	ppbv #	62
17) tert-Butyl alcohol	3.922	59	3314	0.034	ppbv #	72
19) Isopropyl Alcohol	3.613	45	104724	1.496	ppbv #	94
20) Methylene Chloride	3.951	84	6241216	134.922	ppbv	84
21) Allyl Chloride	3.951	41	269612	3.506	ppbv #	20
23) Vinyl Acetate	4.639	43	12360	0.098	ppbv #	82
25) Ethyl Acetate	5.224	43	3847257	16.389	ppbv #	79
26) Hexane	5.227	57	5067381	48.750	ppbv #	43
30) Cyclohexane	6.610	84	13632	0.165	ppbv #	1
31) cis-1,2-Dichloroethene	5.214	61	41965	0.421	ppbv #	25
34) 2-Butanone	4.809	43	69239	0.520	ppbv	97
36) Benzene	6.382	78	15389	0.074	ppbv	93
39) 1,2-Dichloropropane	6.661	63	638181	7.902	ppbv #	22
41) Tetrahydrofuran	5.825	42	35066	0.425	ppbv #	37
44) 2,2,4-Trimethylpentane	7.333	57	48608	0.137	ppbv #	82
53) Toluene	9.221	91	58411	0.248	ppbv #	27
60) o-Xylene	13.057	91	12237	0.052	ppbv	75
74) 1,2,4-Trimethylbenzene	16.101	105	11324	0.042	ppbv #	62
80) Naphthalene,2-methyl-	24.529	142	39	0.102	ppbv #	1

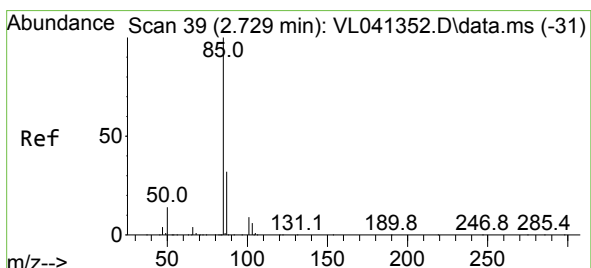
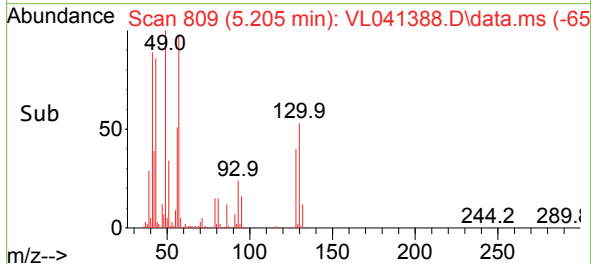
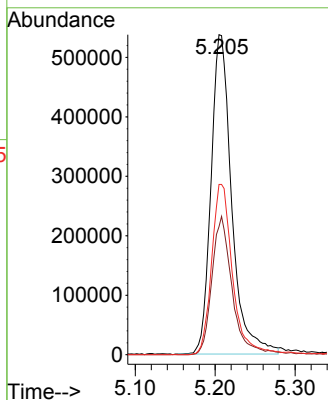
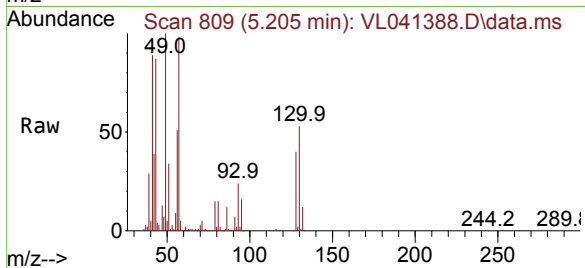
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.006 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

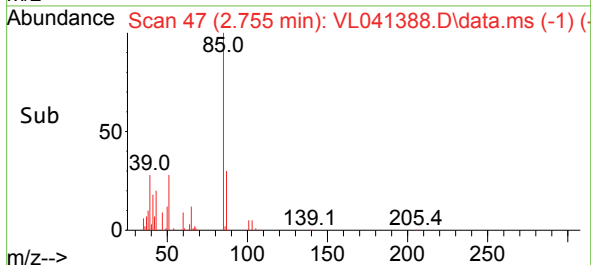
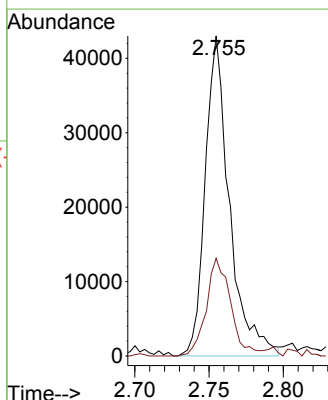
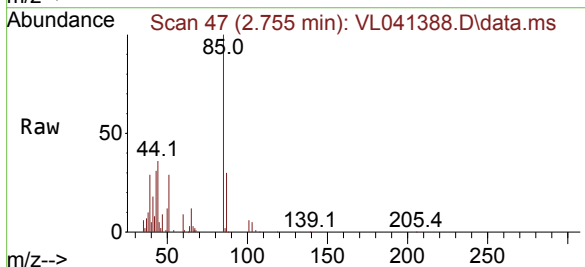
Instrument :
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 ClientSampleId :

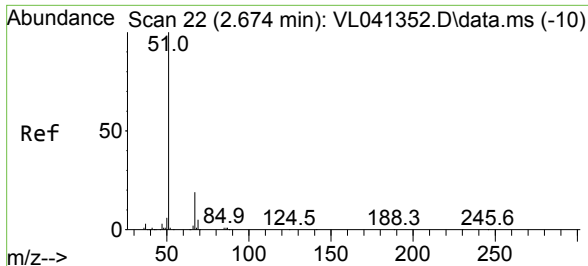
Tgt Ion: 49 Resp: 965268
 Ion Ratio Lower Upper
 49 100
 128 42.8 22.8 68.3
 130 55.1 28.9 86.7



#2
 Dichlorodifluoromethane
 Concen: 0.296 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. -0.019 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

Tgt Ion: 85 Resp: 48813
 Ion Ratio Lower Upper
 85 100
 87 30.5 25.9 38.9

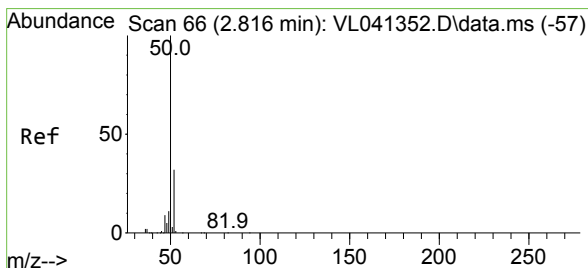
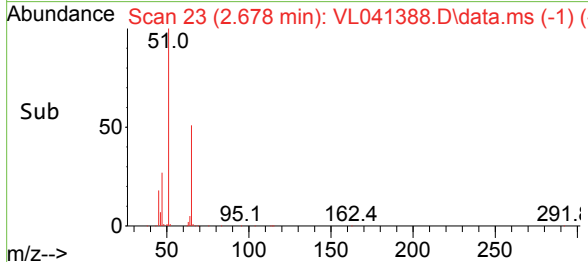
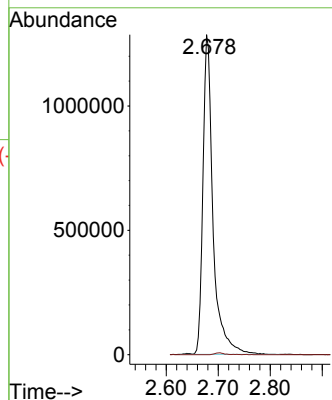
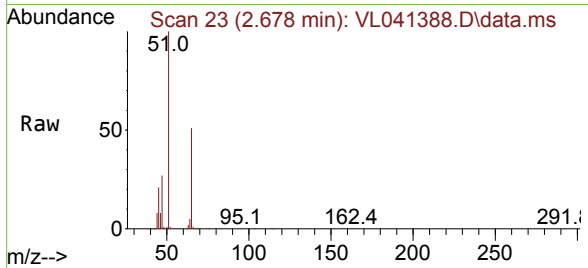




#3
 Chlorodifluoromethane
 Concen: 10.413 ppbv
 RT: 2.678 min Scan# 21
 Delta R.T. -0.042 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

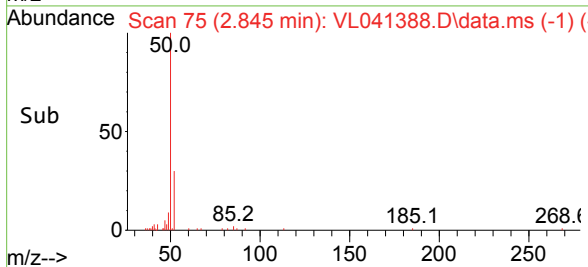
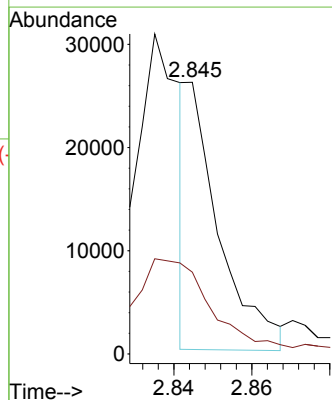
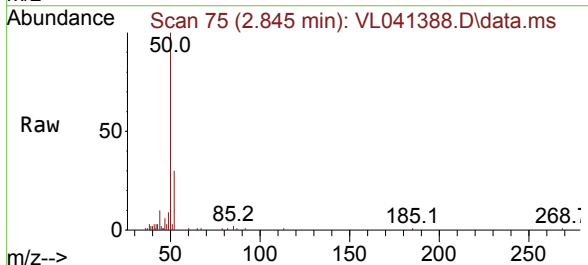
Instrument :
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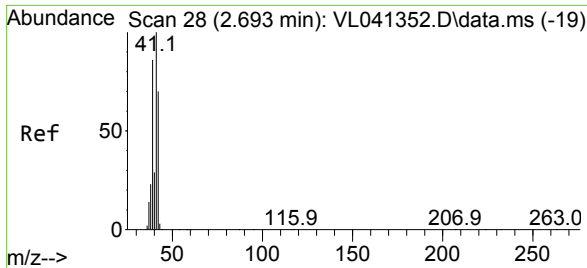
Tgt Ion: 51 Resp: 1733128
 Ion Ratio Lower Upper
 51 100
 67 0.6 14.3 21.5#



#4
 Chloromethane
 Concen: 0.234 ppbv
 RT: 2.845 min Scan# 75
 Delta R.T. -0.009 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

Tgt Ion: 50 Resp: 14893
 Ion Ratio Lower Upper
 50 100
 52 29.7 25.6 38.4

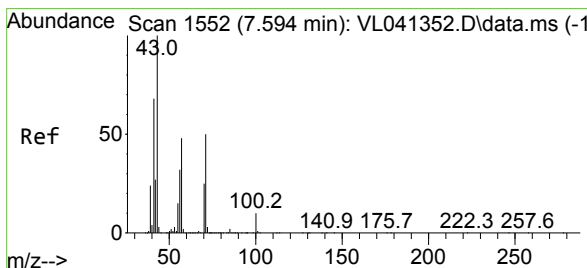
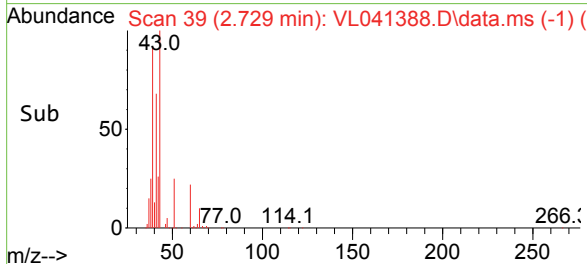
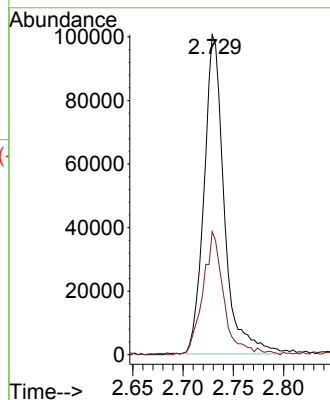
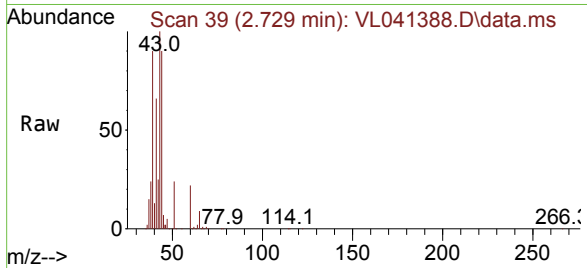




#9
Propene
Concen: 2.442 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.006 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

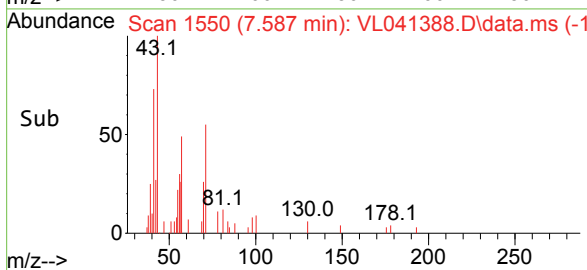
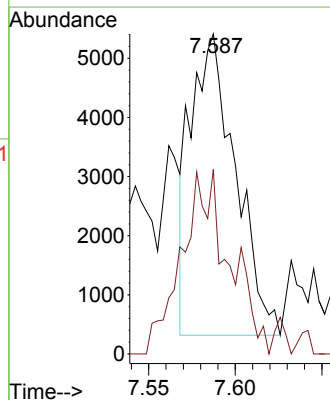
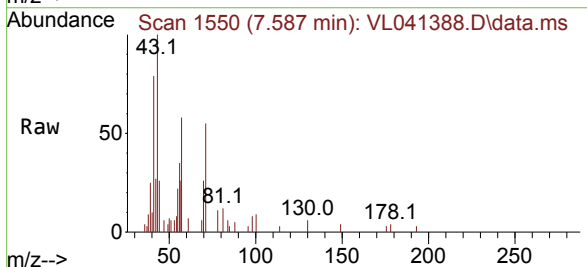
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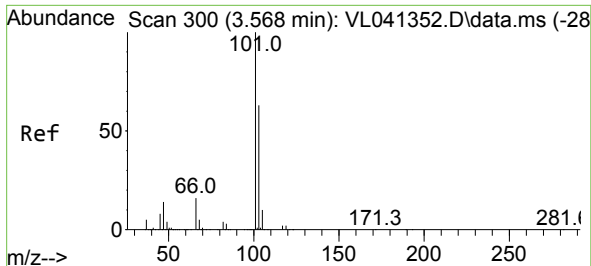
Tgt Ion: 41 Resp: 140640
Ion Ratio Lower Upper
41 100
42 40.7 55.8 83.8#



#10
Heptane
Concen: 0.068 ppbv
RT: 7.587 min Scan# 1550
Delta R.T. -0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 43 Resp: 9196
Ion Ratio Lower Upper
43 100
57 68.8 40.3 60.5#

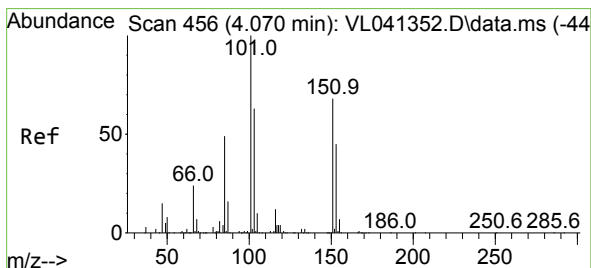
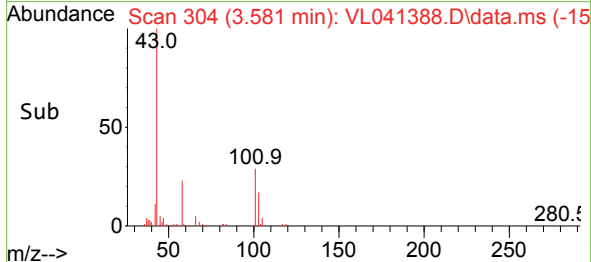
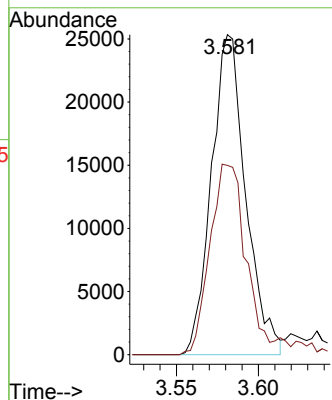
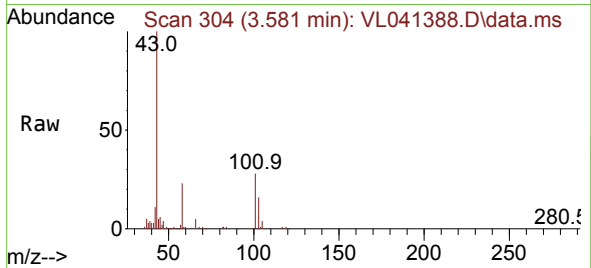




#11
 Trichlorofluoromethane
 Concen: 0.230 ppbv
 RT: 3.581 min Scan# 300
 Delta R.T. -0.013 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

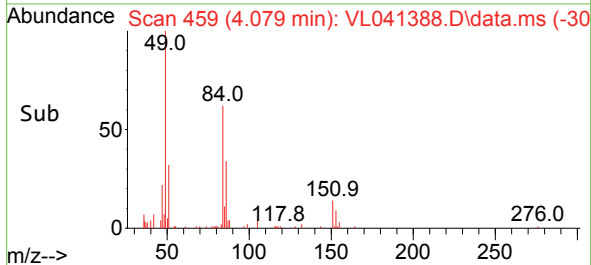
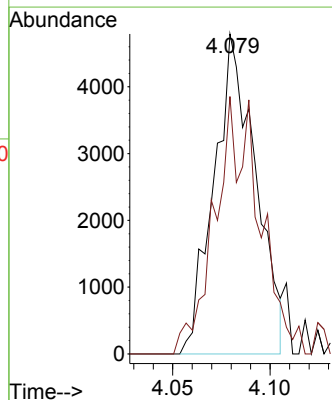
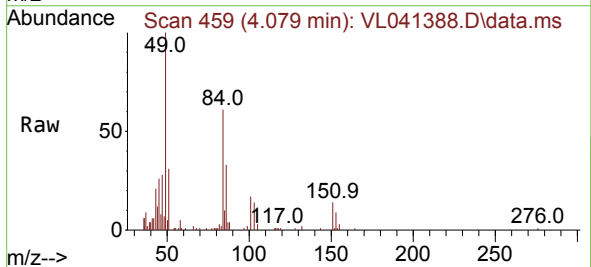
Instrument :
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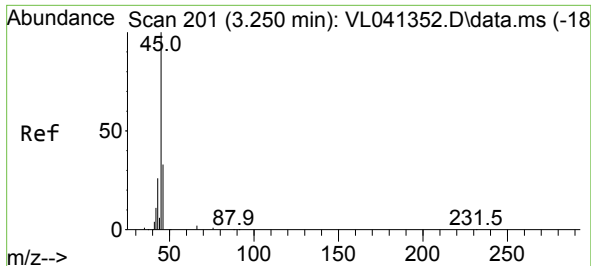
Tgt Ion:101 Resp: 36824
 Ion Ratio Lower Upper
 101 100
 103 59.1 50.5 75.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.063 ppbv
 RT: 4.079 min Scan# 459
 Delta R.T. -0.013 min
 Lab File: VL041388.D
 Acq: 22 Jul 2024 16:09

Tgt Ion:101 Resp: 7116
 Ion Ratio Lower Upper
 101 100
 151 88.7 57.0 85.6#

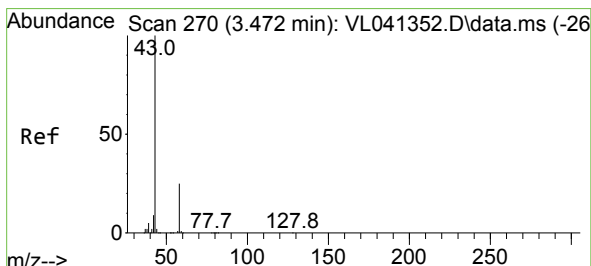
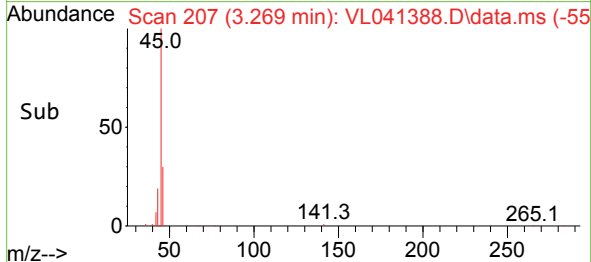
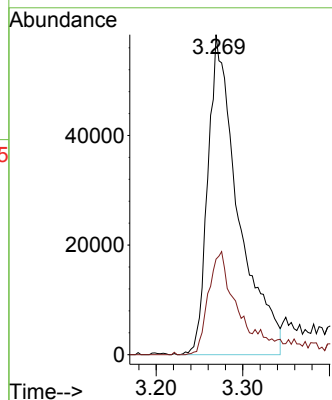
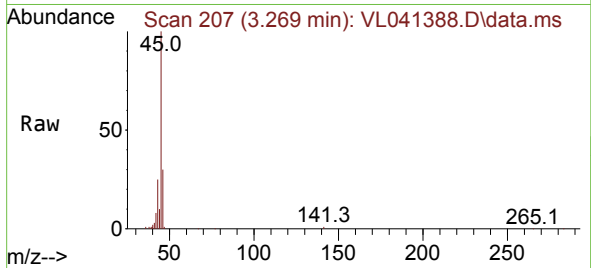




#13
Ethanol
Concen: 11.166 ppbv
RT: 3.269 min Scan# 201
Delta R.T. -0.013 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

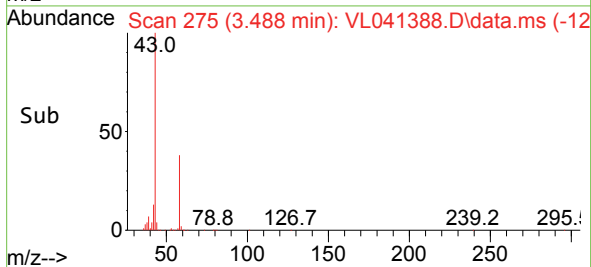
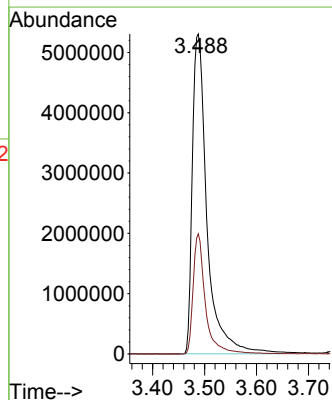
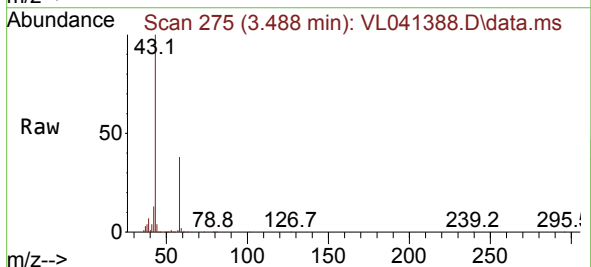
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ClientSampleId :

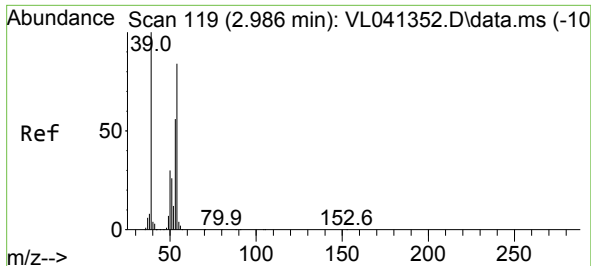
Tgt Ion: 45 Resp: 142671
Ion Ratio Lower Upper
45 100
46 36.0 13.3 53.3



#15
Acetone
Concen: 81.729 ppbv
RT: 3.488 min Scan# 275
Delta R.T. -0.013 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 43 Resp:10419127
Ion Ratio Lower Upper
43 100
58 31.9 20.3 30.5#

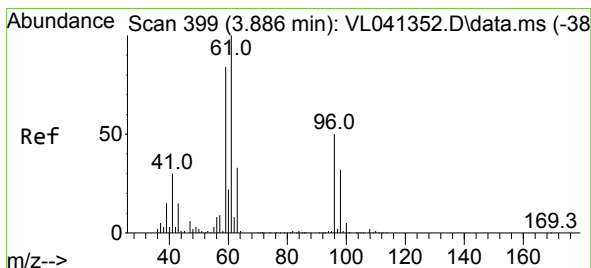
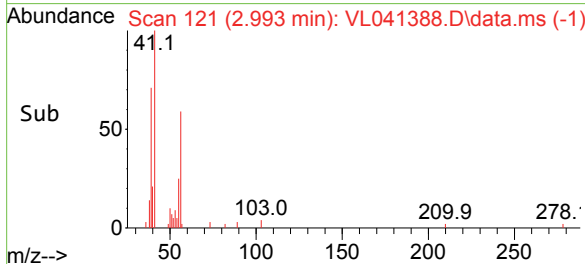
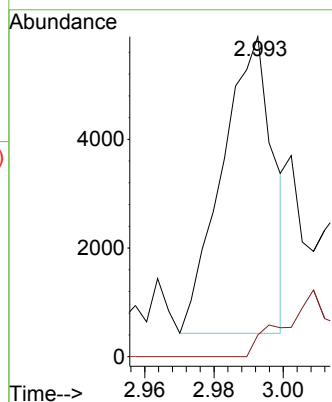
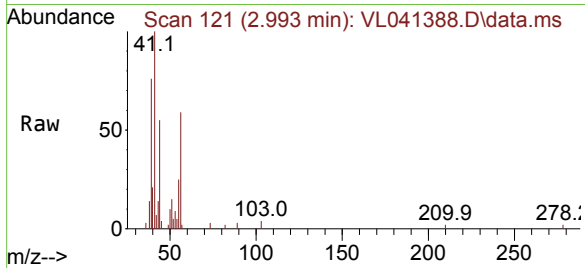




#16
1,3-Butadiene
Concen: 0.092 ppbv
RT: 2.993 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

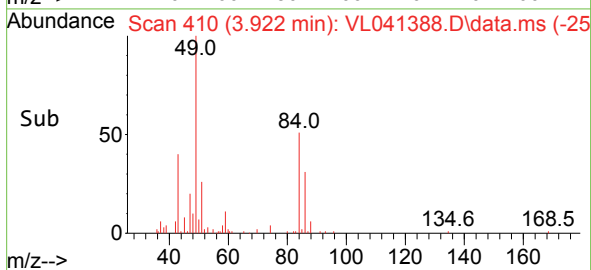
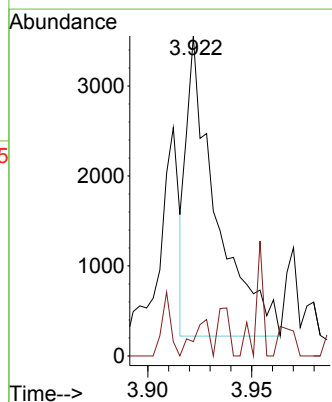
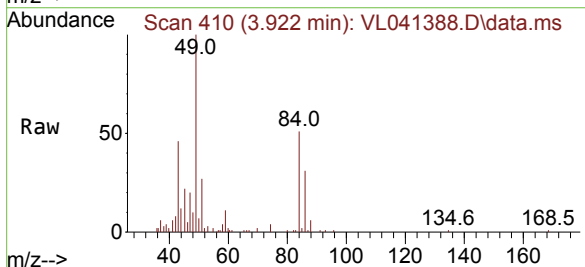
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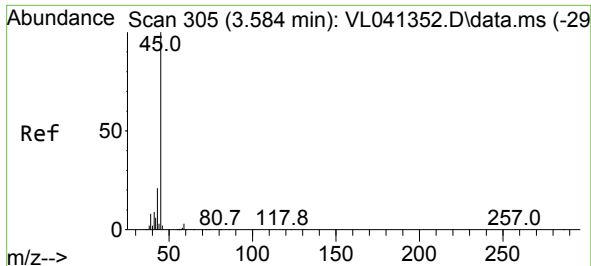
Tgt Ion: 39 Resp: 5582
Ion Ratio Lower Upper
39 100
54 42.7 60.5 90.7#



#17
tert-Butyl alcohol
Concen: 0.034 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.013 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 59 Resp: 3314
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

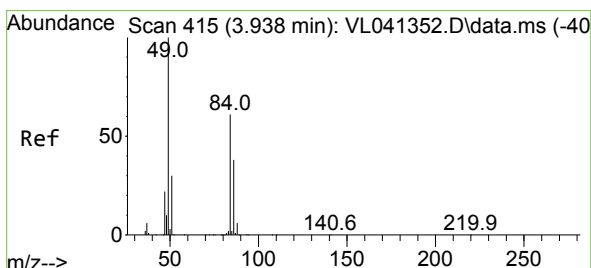
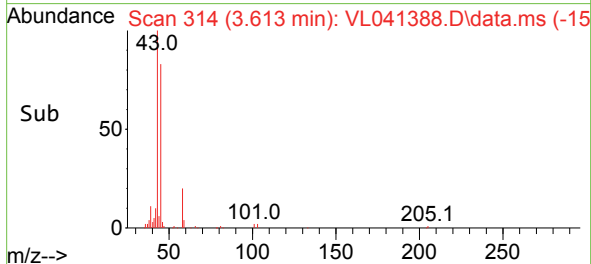
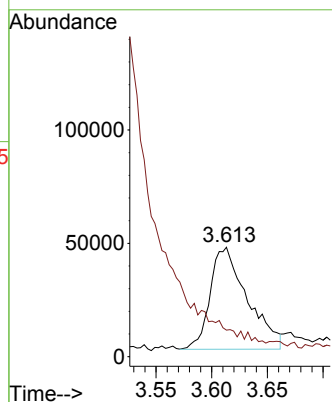
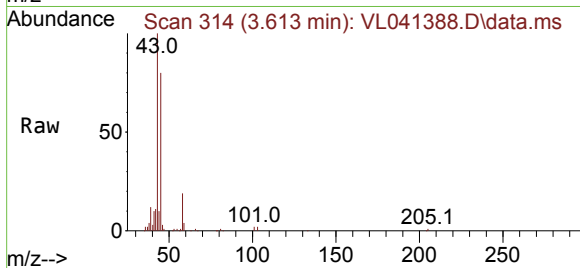




#19
Isopropyl Alcohol
Concen: 1.496 ppbv
RT: 3.613 min Scan# 314
Delta R.T. 0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

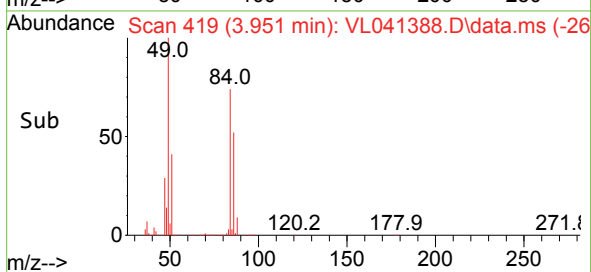
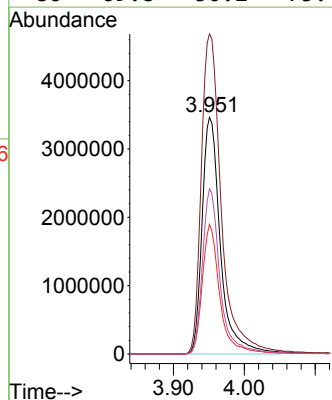
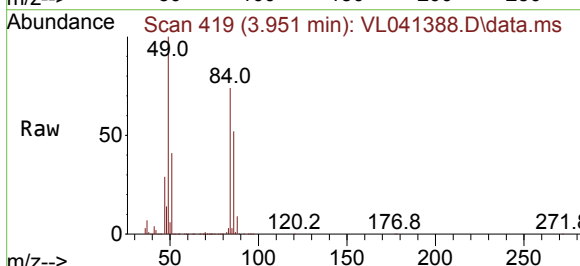
Instrument :
MSVOA_L
ClientSampleId :

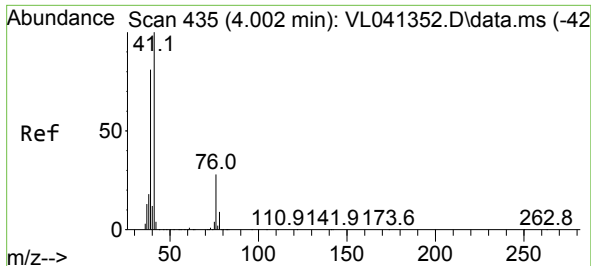
Tgt Ion: 45 Resp: 104724
Ion Ratio Lower Upper
45 100
58 0.0 1.6 2.4#



#20
Methylene Chloride
Concen: 134.922 ppbv
RT: 3.951 min Scan# 419
Delta R.T. -0.013 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 84 Resp: 6241216
Ion Ratio Lower Upper
84 100
49 135.2 131.8 197.6
51 54.8 39.6 59.4
86 69.8 50.2 75.4





#21

Allyl Chloride

Concen: 3.506 ppbv

RT: 3.951 min Scan# 41

Delta R.T. -0.074 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Instrument :

MSVOA_L

ClientSampleId :

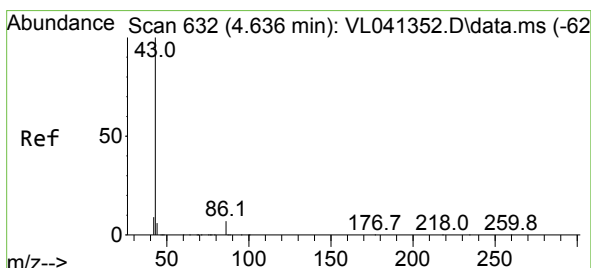
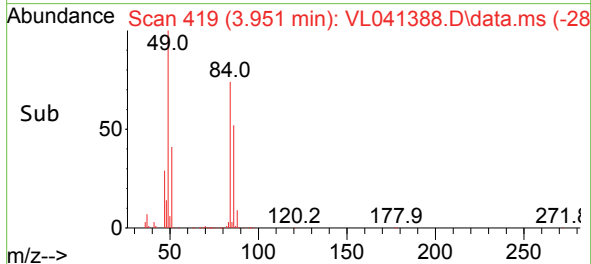
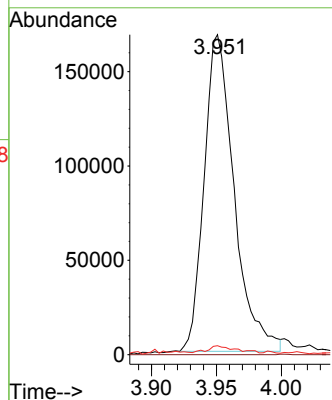
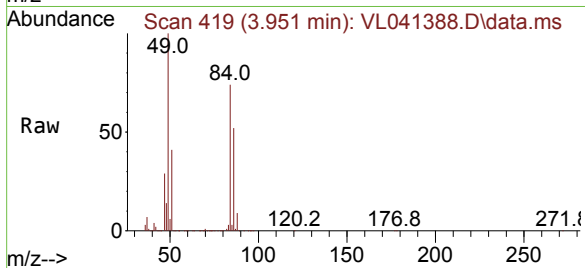
Tgt Ion: 41 Resp: 269612

Ion Ratio Lower Upper

41 100

76 0.1 23.3 34.9#

39 2.6 66.0 99.0#



#23

Vinyl Acetate

Concen: 0.098 ppbv

RT: 4.639 min Scan# 633

Delta R.T. -0.013 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Tgt Ion: 43 Resp: 12360

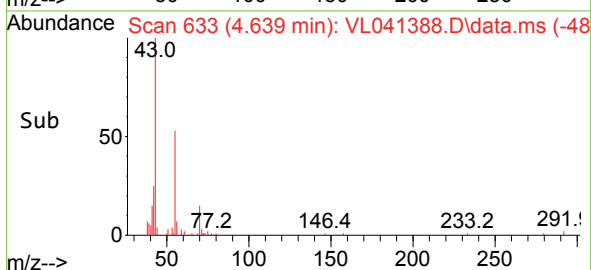
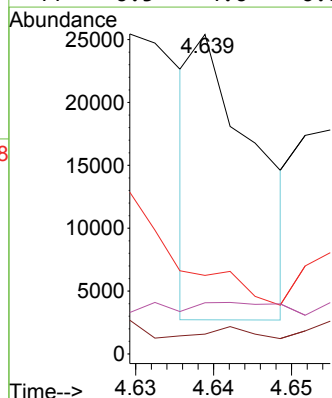
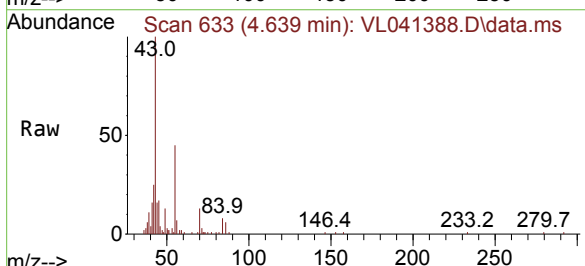
Ion Ratio Lower Upper

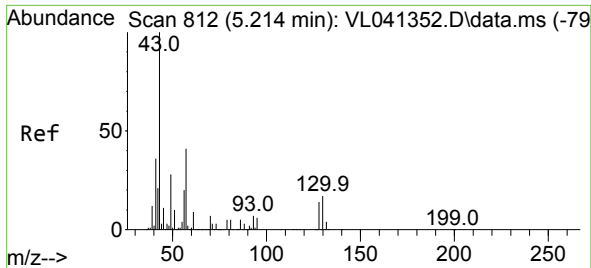
43 100

86 3.3 5.0 7.4#

42 21.9 7.9 11.9#

44 6.5 4.6 6.8

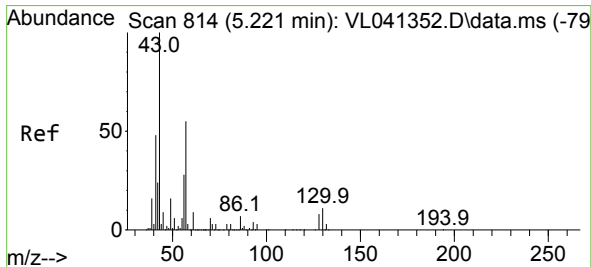
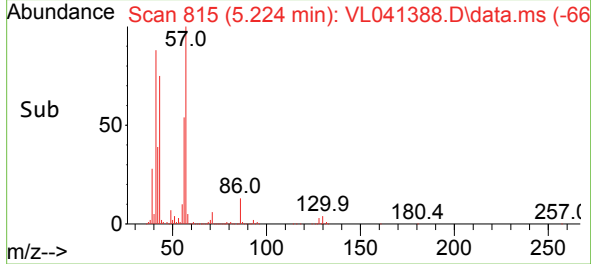
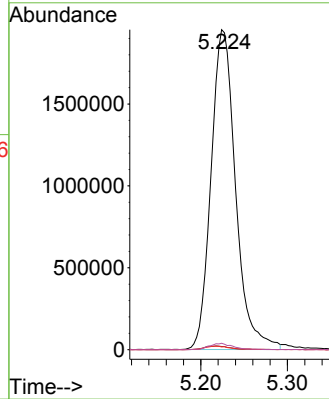
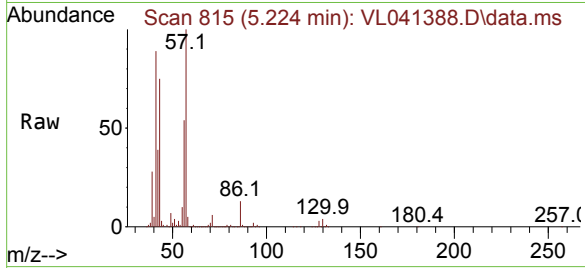




#25
Ethyl Acetate
Concen: 16.389 ppbv
RT: 5.224 min Scan# 812
Delta R.T. -0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

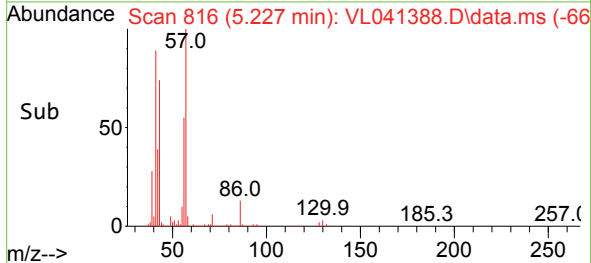
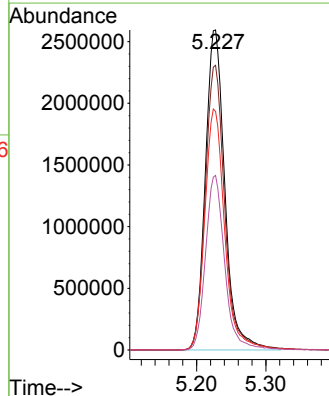
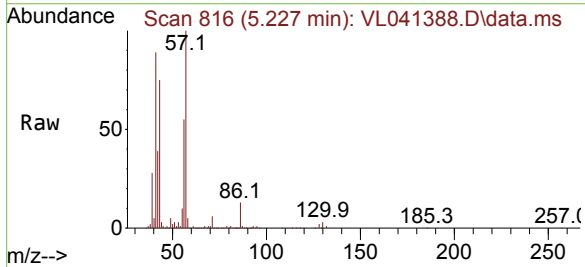
Instrument :
MSVOA_L
ClientSampleId :

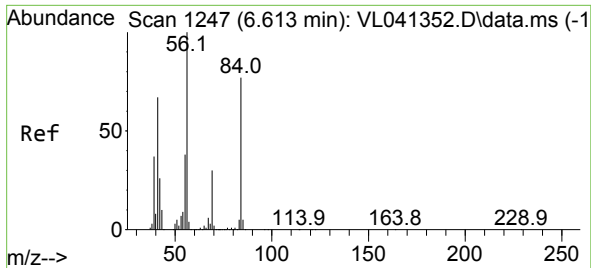
Tgt Ion: 43 Resp: 3847257
Ion Ratio Lower Upper
43 100
45 1.3 8.3 12.5#
61 1.2 7.7 11.5#
70 1.9 5.6 8.4#



#26
Hexane
Concen: 48.750 ppbv
RT: 5.227 min Scan# 816
Delta R.T. -0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 57 Resp: 5067381
Ion Ratio Lower Upper
57 100
41 89.3 73.7 110.5
43 77.0 182.2 273.2#
56 53.7 41.8 62.6

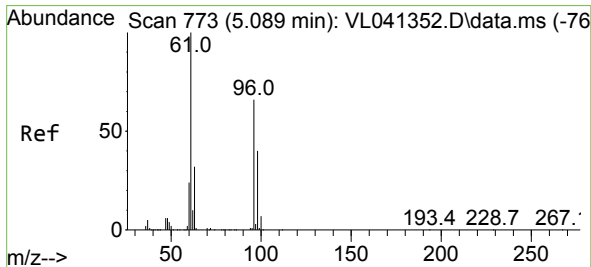
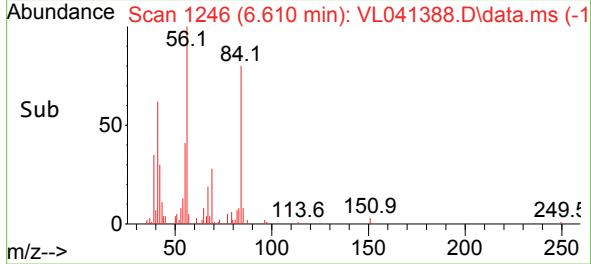
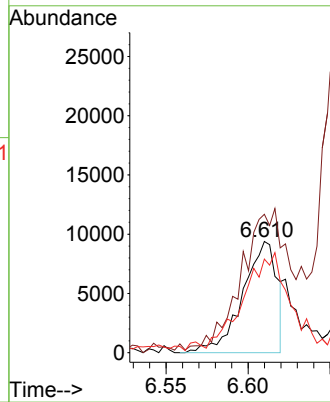
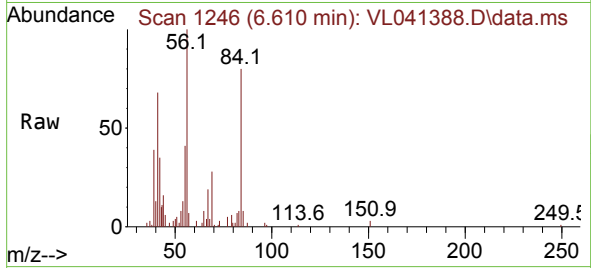




#30
Cyclohexane
Concen: 0.165 ppbv
RT: 6.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

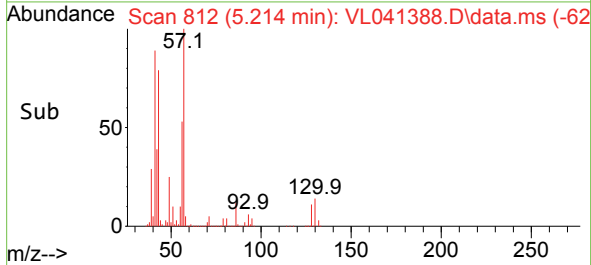
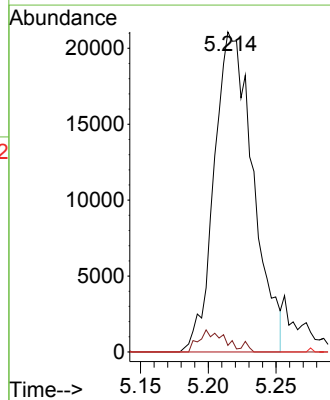
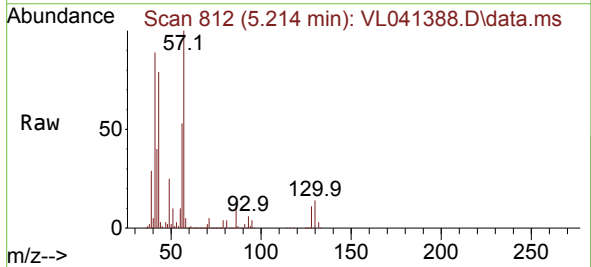
Instrument :
MSVOA_L
ClientSampleId :

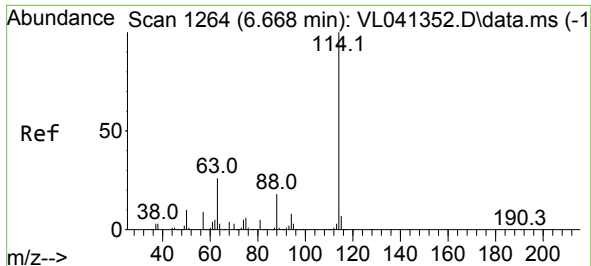
Tgt Ion: 84 Resp: 13632
Ion Ratio Lower Upper
84 100
56 0.0 112.4 168.6#
41 0.0 72.7 109.1#



#31
cis-1,2-Dichloroethene
Concen: 0.421 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.116 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 61 Resp: 41965
Ion Ratio Lower Upper
61 100
96 2.1 52.6 79.0#
98 0.0 32.3 48.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. -0.006 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Instrument :

MSVOA_L

ClientSampleId :

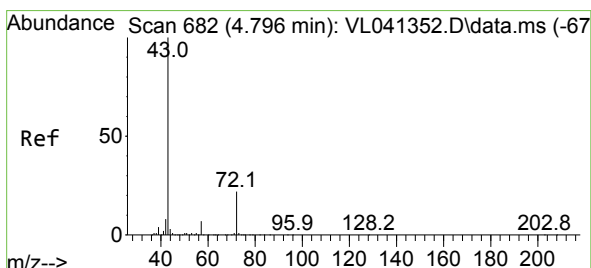
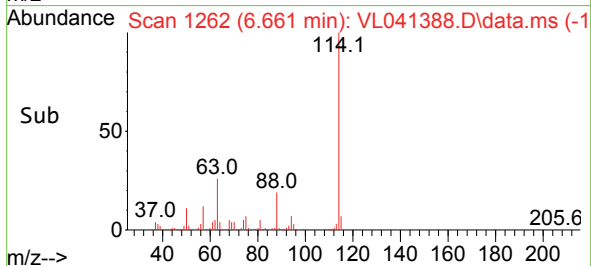
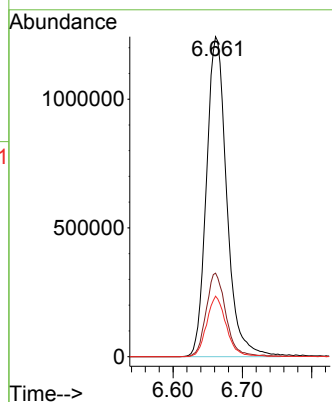
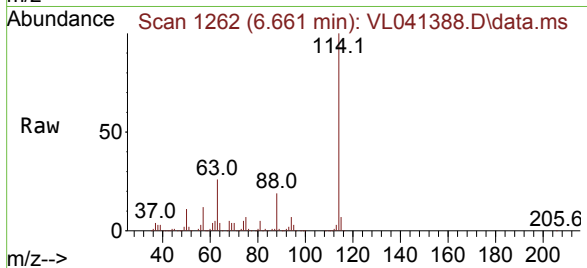
Tgt Ion:114 Resp: 2525164

Ion Ratio Lower Upper

114 100

63 25.8 20.6 31.0

88 18.5 14.6 21.8



#34

2-Butanone

Concen: 0.520 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.000 min

Lab File: VL041388.D

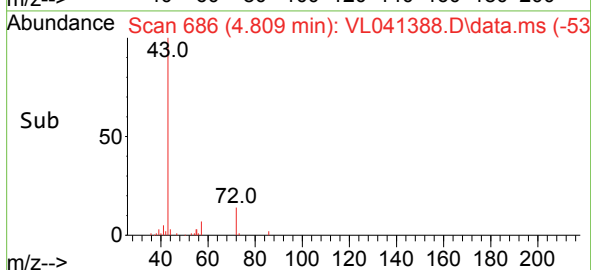
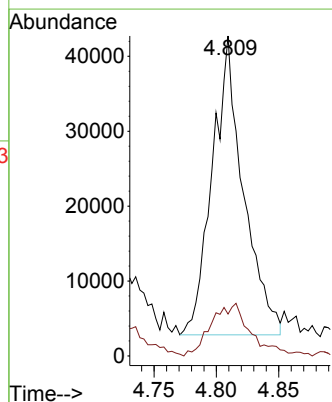
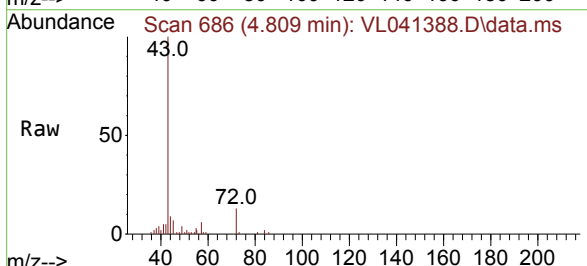
Acq: 22 Jul 2024 16:09

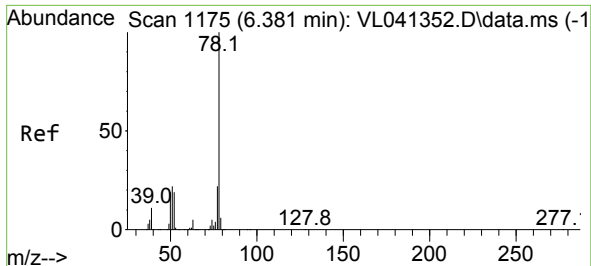
Tgt Ion: 43 Resp: 69239

Ion Ratio Lower Upper

43 100

72 23.1 17.2 25.8

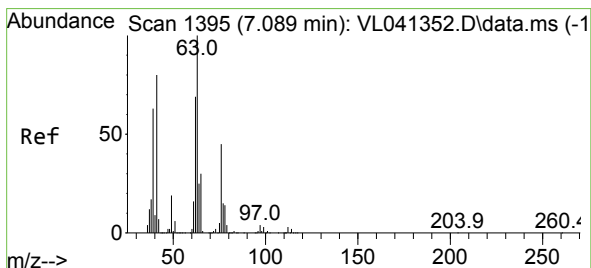
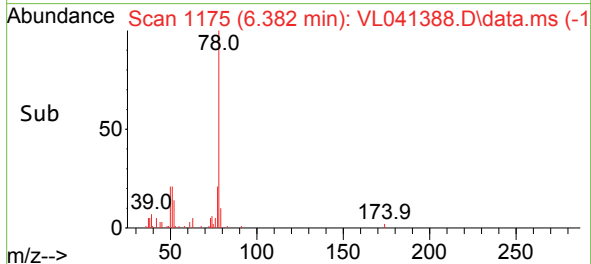
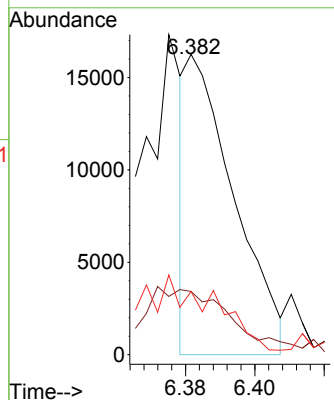
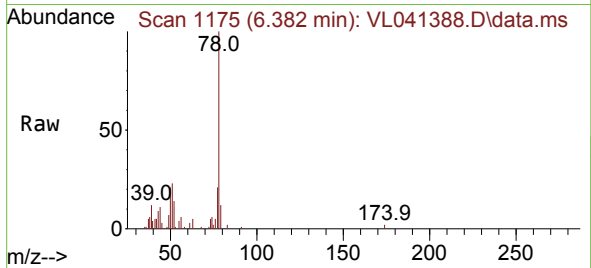




#36
Benzene
Concen: 0.074 ppbv
RT: 6.382 min Scan# 1175
Delta R.T. -0.006 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

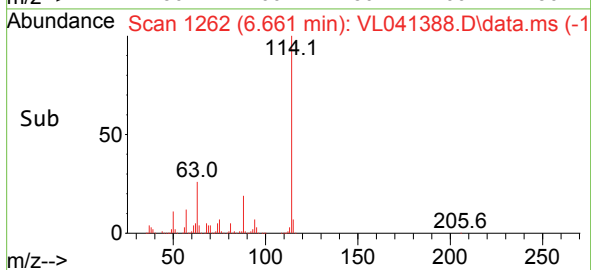
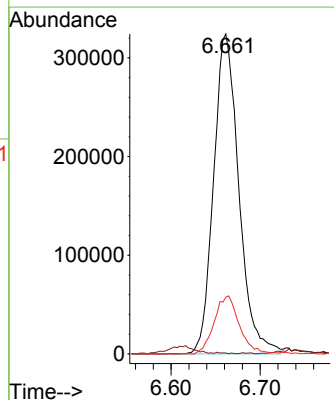
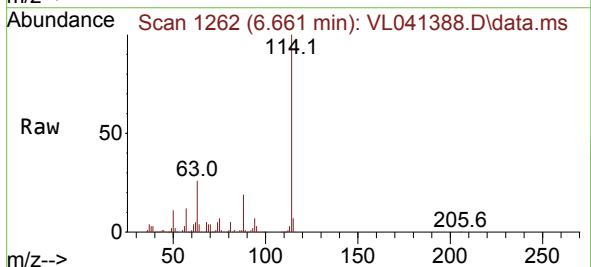
Instrument :
MSVOA_L
ClientSampleId :

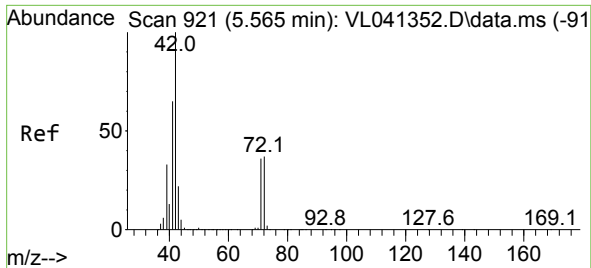
Tgt Ion: 78 Resp: 15389
Ion Ratio Lower Upper
78 100
77 19.0 17.9 26.9
50 22.2 15.5 23.3



#39
1,2-Dichloropropane
Concen: 7.902 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.427 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

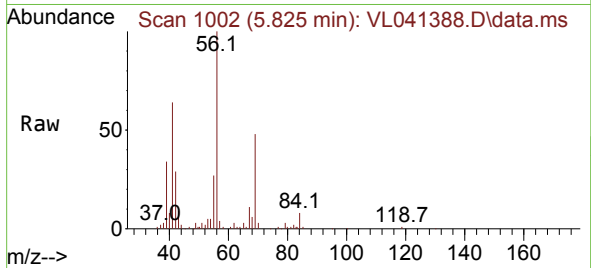
Tgt Ion: 63 Resp: 638181
Ion Ratio Lower Upper
63 100
41 0.0 64.0 96.0#
62 17.8 55.2 82.8#



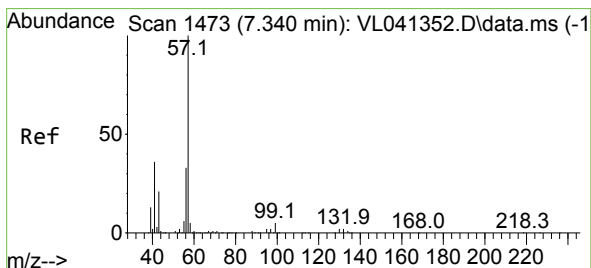
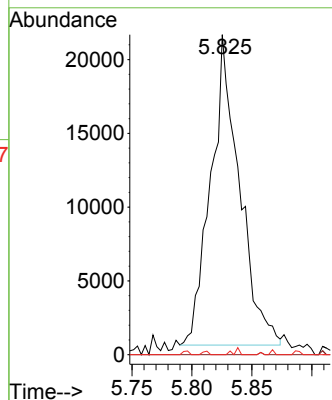
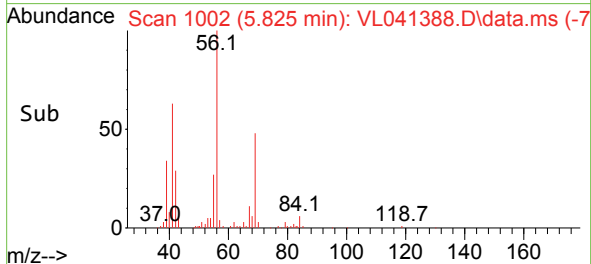


#41
Tetrahydrofuran
Concen: 0.425 ppbv
RT: 5.825 min Scan# 1002
Delta R.T. 0.248 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

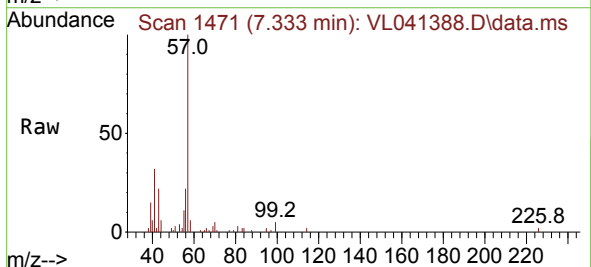
Instrument :
MSVOA_L
ClientSampleId :



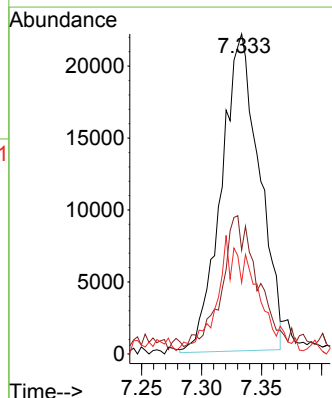
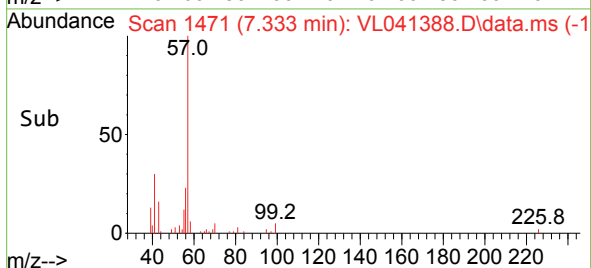
Tgt Ion: 42 Resp: 35066
Ion Ratio Lower Upper
42 100
72 0.0 30.3 45.5#
71 0.0 29.7 44.5#

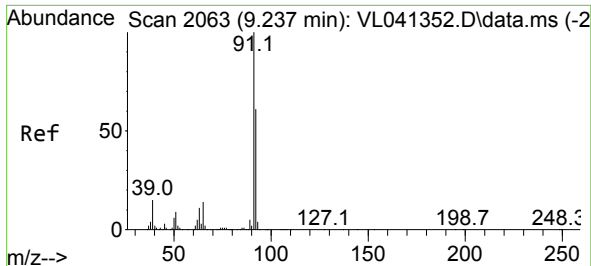


#44
2,2,4-Trimethylpentane
Concen: 0.137 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09



Tgt Ion: 57 Resp: 48608
Ion Ratio Lower Upper
57 100
41 48.6 29.6 44.4#
56 40.6 25.7 38.5#





#53

Toluene

Concen: 0.248 ppbv

RT: 9.221 min Scan# 2063

Delta R.T. -0.006 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Instrument :

MSVOA_L

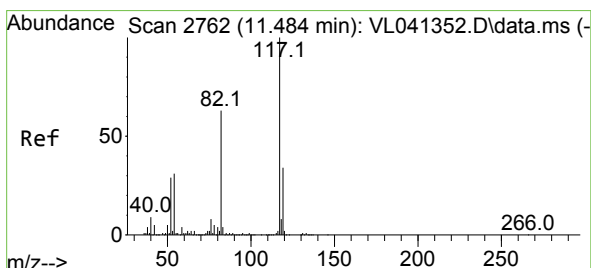
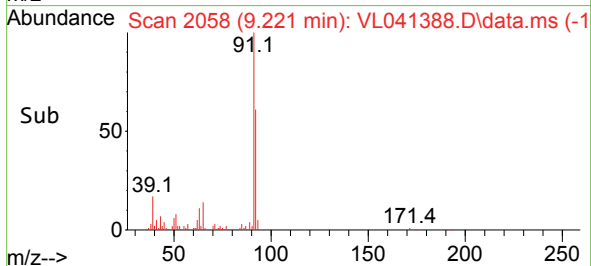
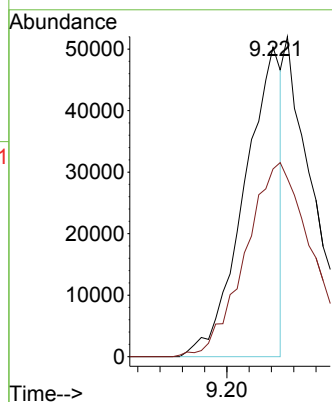
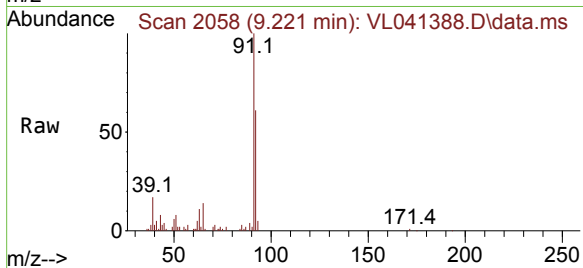
ClientSampleId :

Tgt Ion: 91 Resp: 58411

Ion Ratio Lower Upper

91 100

92 115.8 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 2756

Delta R.T. -0.003 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

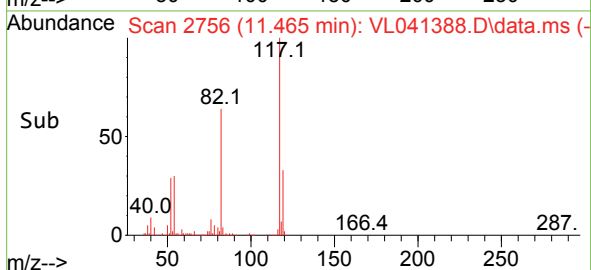
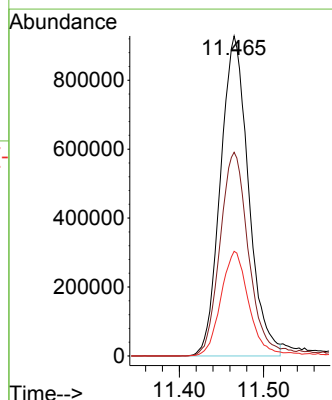
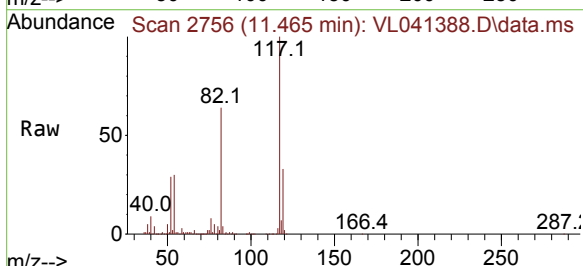
Tgt Ion: 117 Resp: 2145236

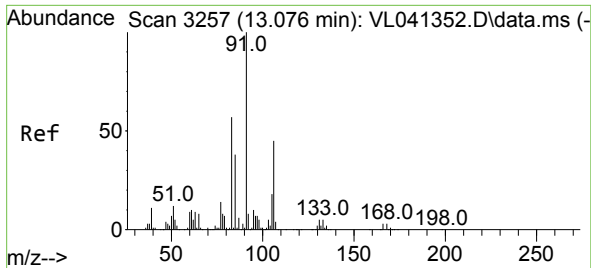
Ion Ratio Lower Upper

117 100

82 67.8 50.6 75.8

119 33.4 24.7 37.1

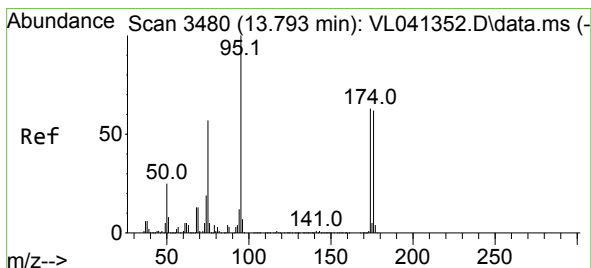
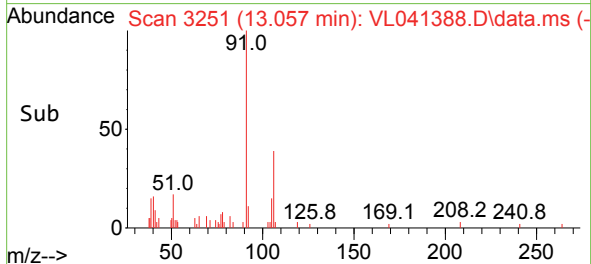
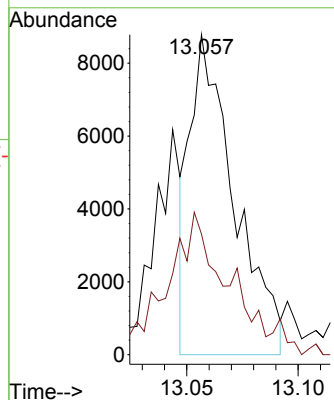
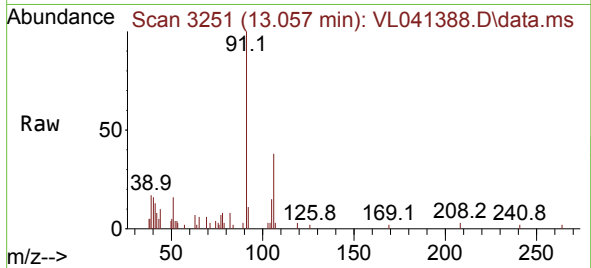




#60
o-Xylene
Concen: 0.052 ppbv
RT: 13.057 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

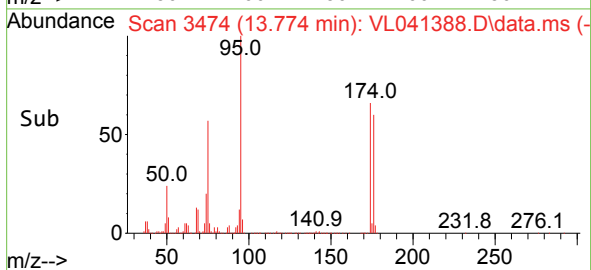
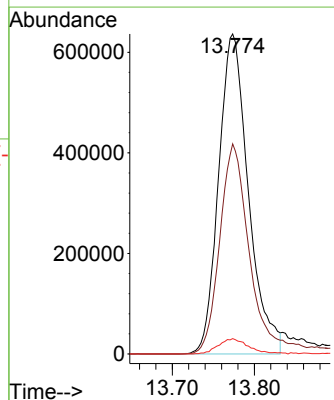
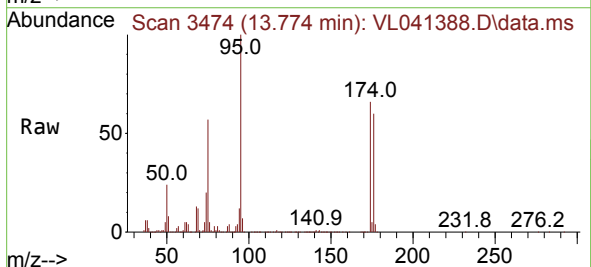
Instrument :
MSVOA_L
ClientSampleId :

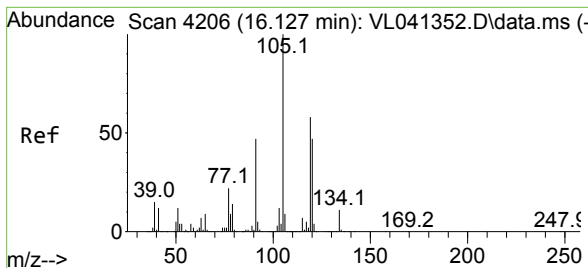
Tgt Ion: 91 Resp: 12237
Ion Ratio Lower Upper
91 100
106 63.2 23.3 69.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.992 ppbv
RT: 13.774 min Scan# 3474
Delta R.T. -0.003 min
Lab File: VL041388.D
Acq: 22 Jul 2024 16:09

Tgt Ion: 95 Resp: 1606564
Ion Ratio Lower Upper
95 100
174 69.3 53.1 79.7
175 4.9 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.042 ppbv

RT: 16.101 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 11324

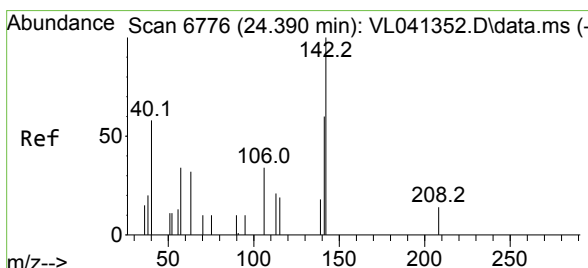
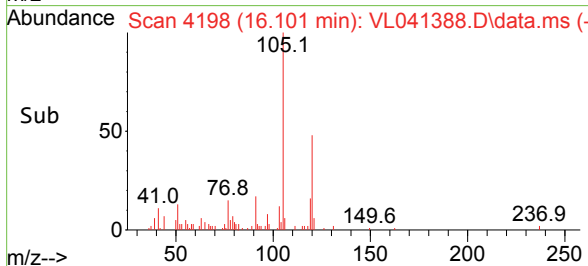
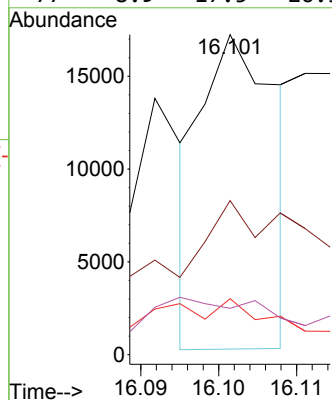
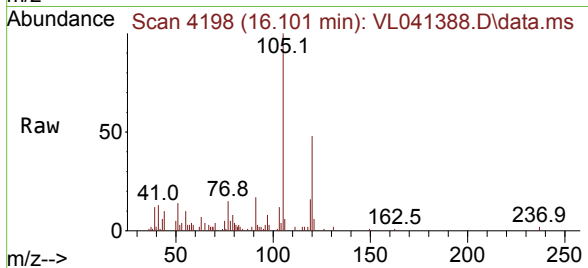
Ion Ratio Lower Upper

105 100

120 71.1 37.8 56.8#

91 16.3 38.0 57.0#

77 8.9 17.5 26.3#



#80

Naphthalene,2-methyl-

Concen: 0.102 ppbv

RT: 24.529 min Scan# 6819

Delta R.T. 0.148 min

Lab File: VL041388.D

Acq: 22 Jul 2024 16:09

Tgt Ion:142 Resp: 39

Ion Ratio Lower Upper

142 100

141 251.3 37.9 56.9#

115 0.0 11.0 16.4#

