

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041410.D
 Acq On : 26 Jul 2024 7:22
 Operator : SY/MD
 Sample : P3320-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Quant Time: Jul 29 01:44:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 Response via : Initial Calibration

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

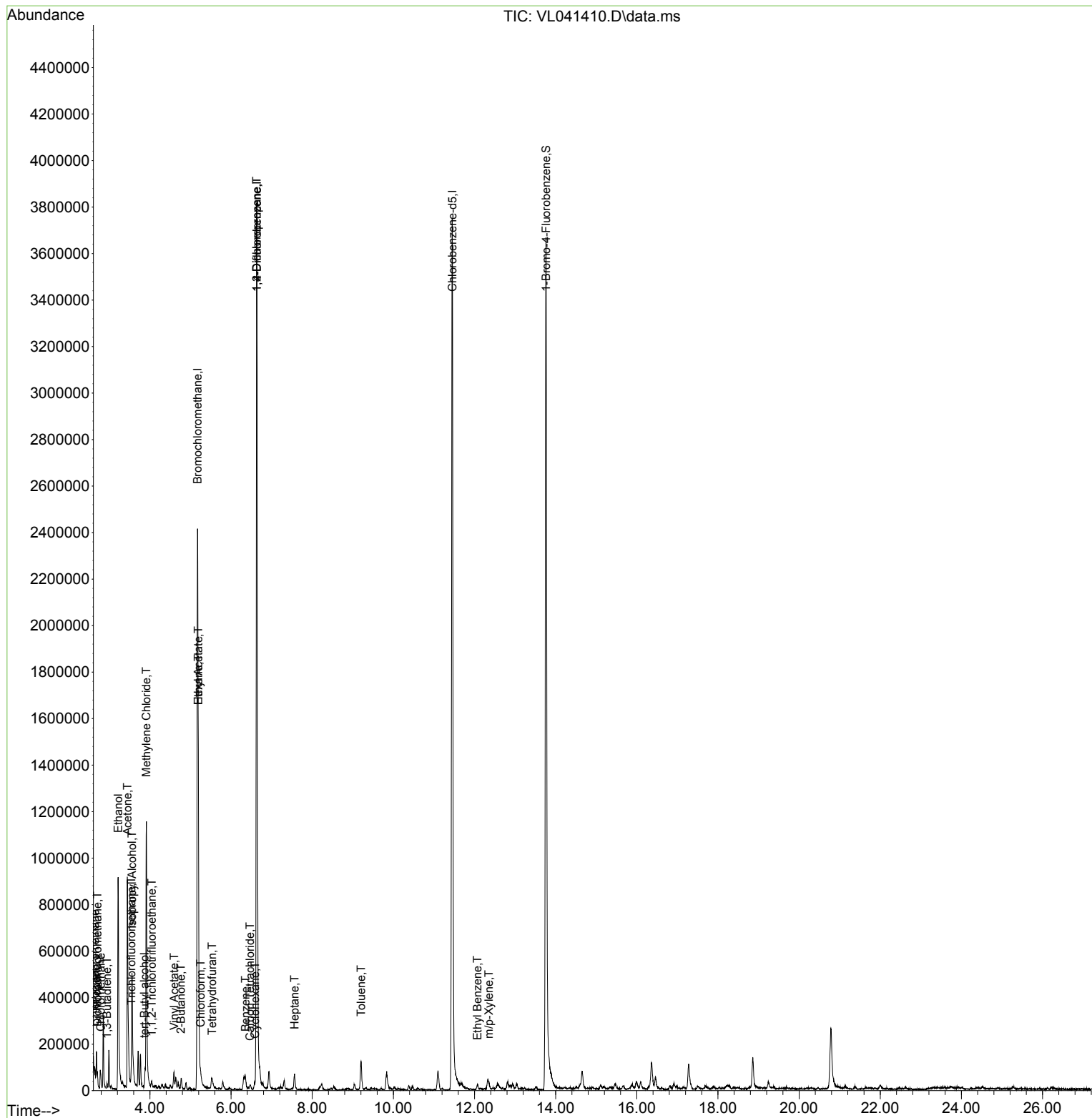
Internal Standards						
1) Bromochloromethane	5.172	49	1084053	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2953868	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2551447	10.000	ppbv	#-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1843845	9.391	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	35069	0.188	ppbv	97
3) Chlorodifluoromethane	2.652	51	64721	0.502	ppbv	97
4) Chloromethane	2.793	50	34849	0.508	ppbv	88
9) Propene	2.681	41	29398	0.496	ppbv	87
10) Heptane	7.565	43	6959	0.052	ppbv #	27
11) Trichlorofluoromethane	3.542	101	35120	0.212	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.047	101	7158	0.060	ppbv	93
13) Ethanol	3.217	45	931387	175.779	ppbv	98
15) Acetone	3.446	43	925352	7.513	ppbv	99
16) 1,3-Butadiene	2.941	39	5296	0.080	ppbv #	51
17) tert-Butyl alcohol	3.864	59	5746	0.051	ppbv #	72
19) Isopropyl Alcohol	3.558	45	509647	7.078	ppbv #	97
20) Methylene Chloride	3.912	84	371853	8.096	ppbv	95
23) Vinyl Acetate	4.597	43	34702	0.369	ppbv #	55
25) Ethyl Acetate	5.192	43	316973	1.295	ppbv #	88
26) Hexane	5.192	57	303947	2.994	ppbv #	50
29) Chloroform	5.253	83	11542	0.070	ppbv	91
30) Cyclohexane	6.587	84	2710	0.033	ppbv #	1
34) 2-Butanone	4.767	43	24863	0.174	ppbv #	54
35) Carbon Tetrachloride	6.468	117	7819	0.048	ppbv #	75
36) Benzene	6.352	78	16644	0.077	ppbv	95
39) 1,2-Dichloropropane	6.632	63	717426	8.682	ppbv #	26
41) Tetrahydrofuran	5.536	42	3962	0.048	ppbv #	37
53) Toluene	9.204	91	44420	0.185	ppbv #	55
58) Ethyl Benzene	12.069	91	11055	0.038	ppbv	96
59) m/p-Xylene	12.352	91	11678	0.046	ppbv #	31

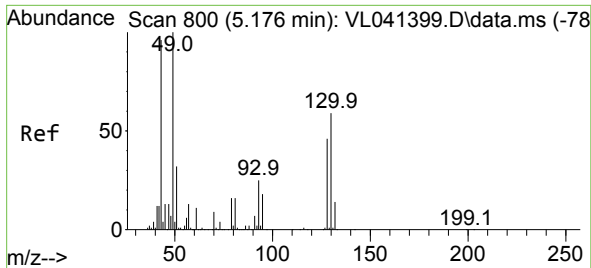
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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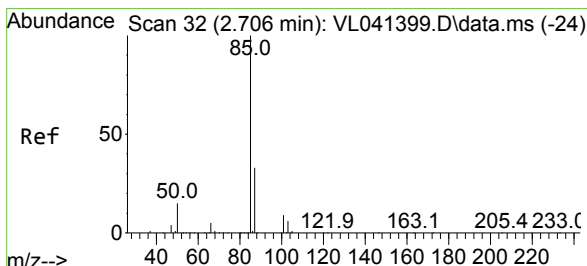
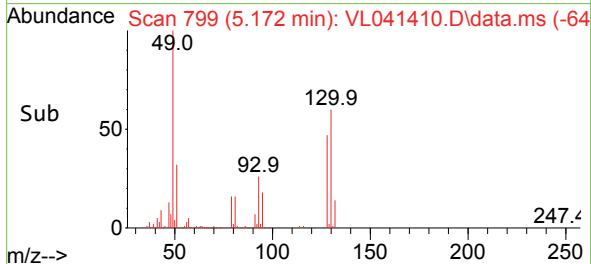
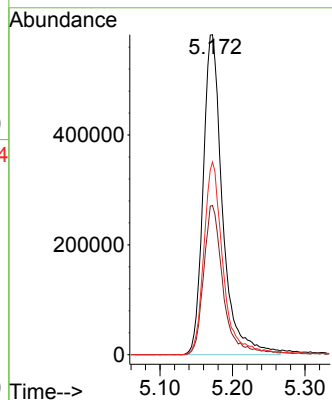
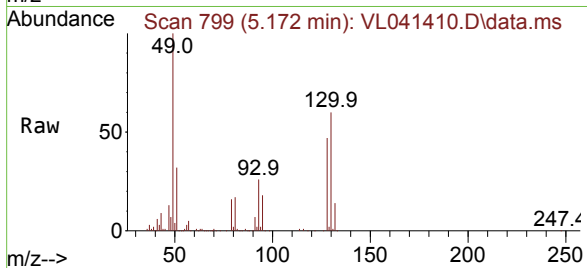




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 79
 Delta R.T. -0.004 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

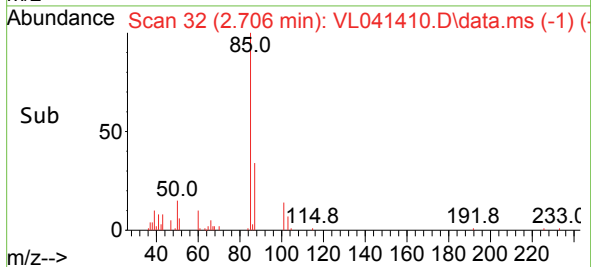
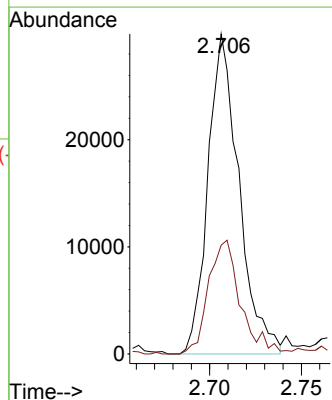
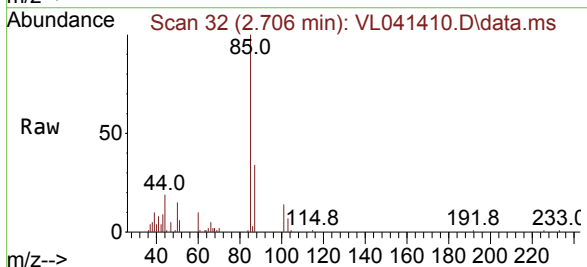
Instrument :
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 ClientSampleId :
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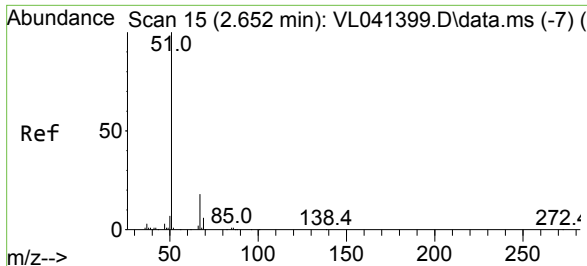
Tgt Ion: 49 Resp: 1084053
 Ion Ratio Lower Upper
 49 100
 128 47.3 23.8 71.4
 130 61.1 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.188 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion: 85 Resp: 35069
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.0 39.0

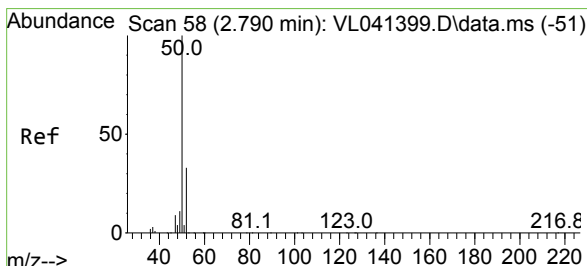
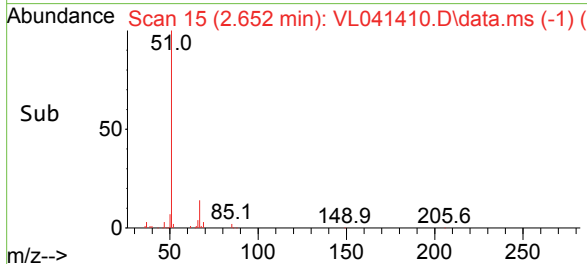
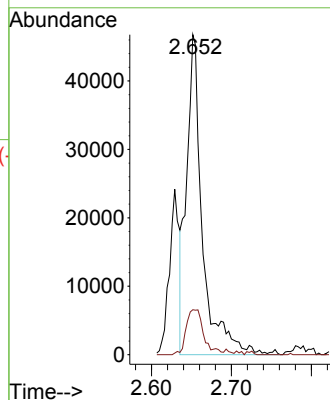
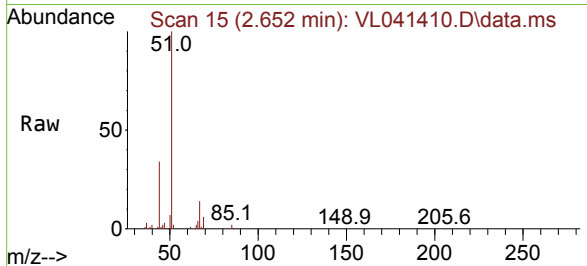




#3
Chlorodifluoromethane
Concen: 0.502 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

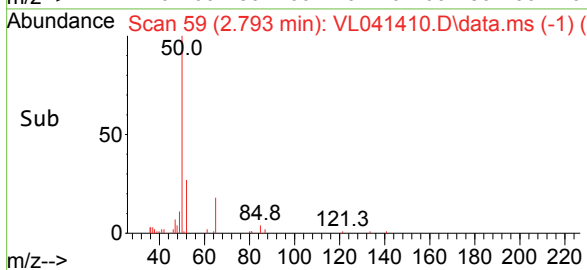
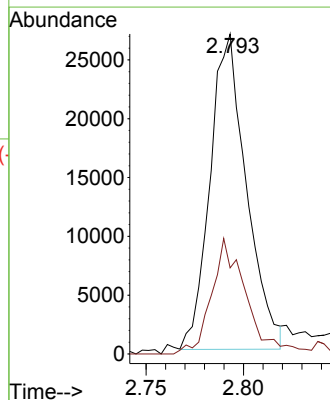
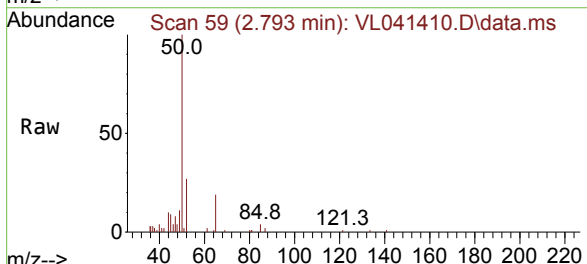
Instrument :
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ClientSampleId :
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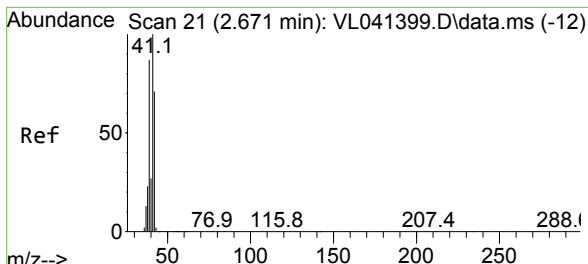
Tgt Ion: 51 Resp: 64721
Ion Ratio Lower Upper
51 100
67 16.7 14.5 21.7



#4
Chloromethane
Concen: 0.508 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 50 Resp: 34849
Ion Ratio Lower Upper
50 100
52 26.1 26.1 39.1

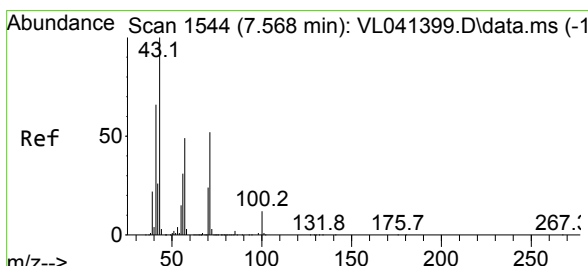
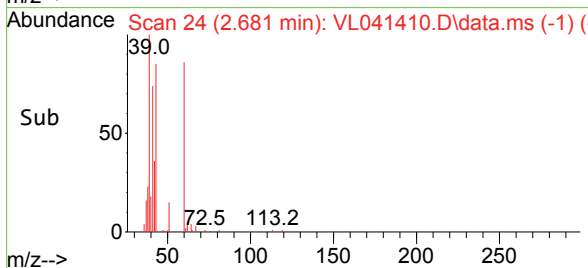
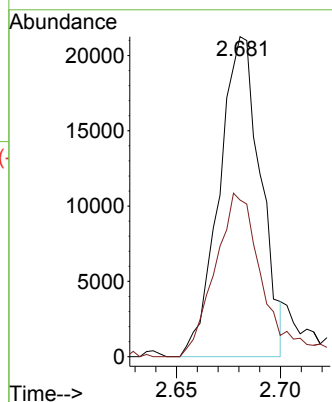
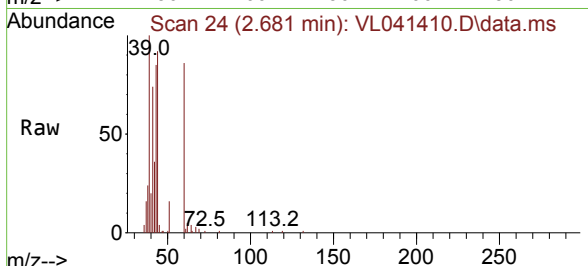




#9
 Propene
 Concen: 0.496 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. 0.010 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

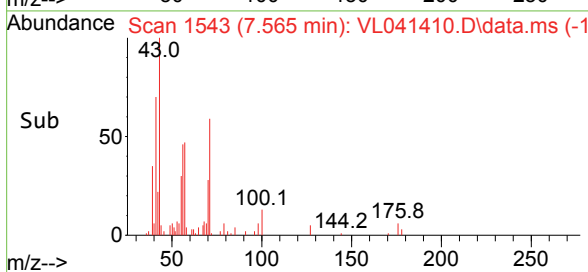
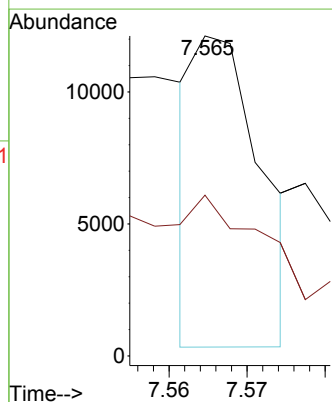
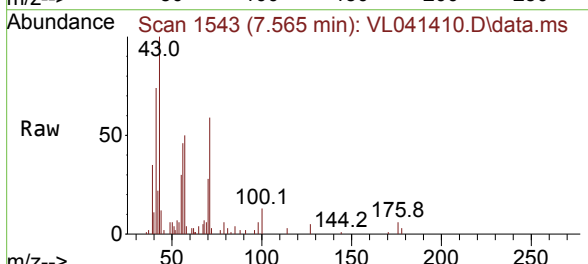
Instrument :
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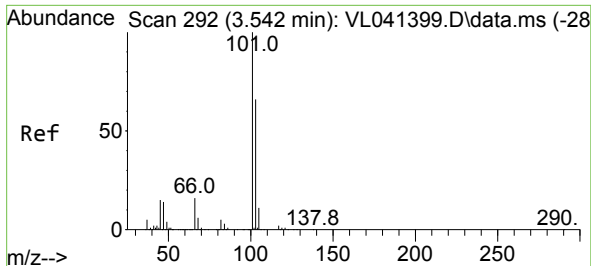
Tgt Ion: 41 Resp: 29398
 Ion Ratio Lower Upper
 41 100
 42 59.6 55.9 83.9



#10
 Heptane
 Concen: 0.052 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. -0.003 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion: 43 Resp: 6959
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#

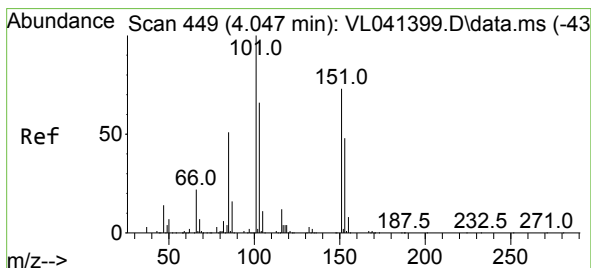
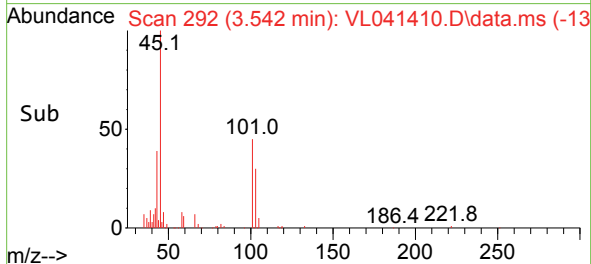
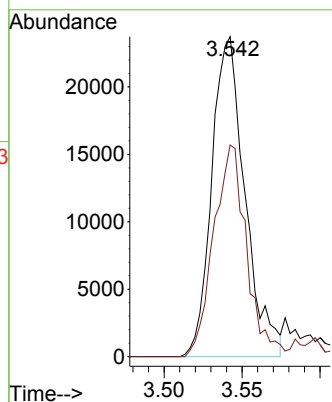
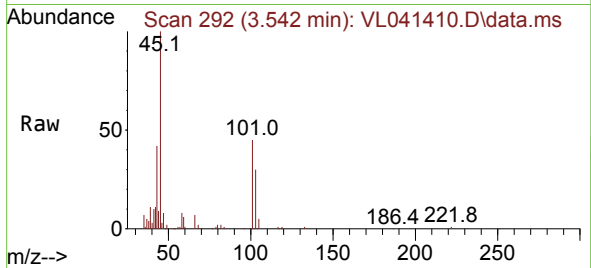




#11
 Trichlorofluoromethane
 Concen: 0.212 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

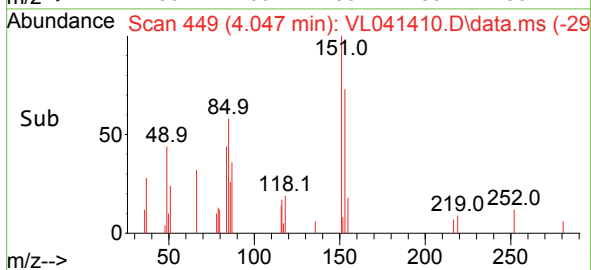
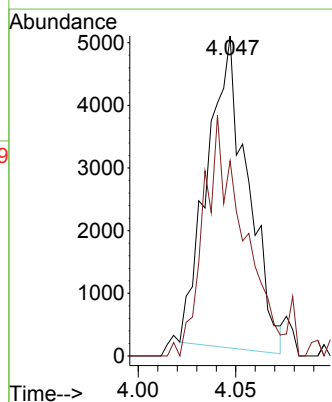
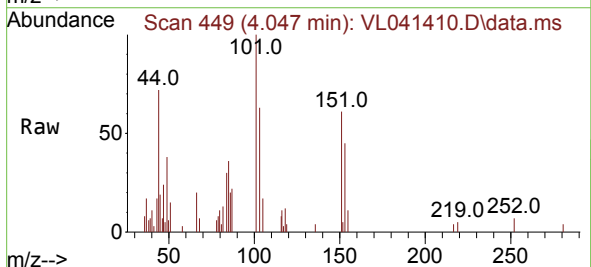
Instrument :
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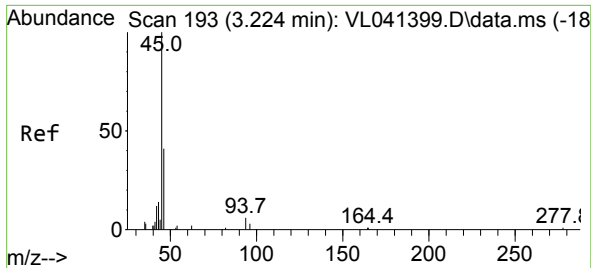
Tgt Ion:101 Resp: 35120
 Ion Ratio Lower Upper
 101 100
 103 66.1 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion:101 Resp: 7158
 Ion Ratio Lower Upper
 101 100
 151 80.1 59.4 89.2

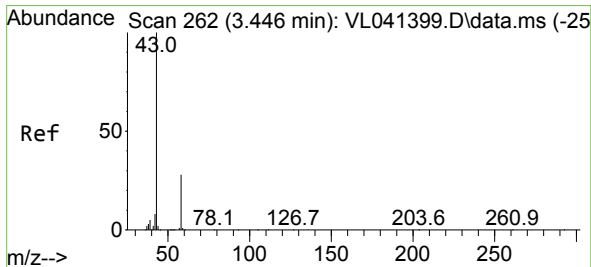
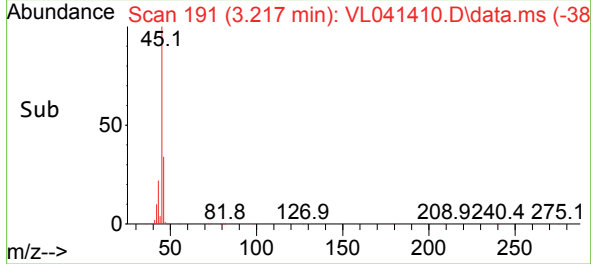
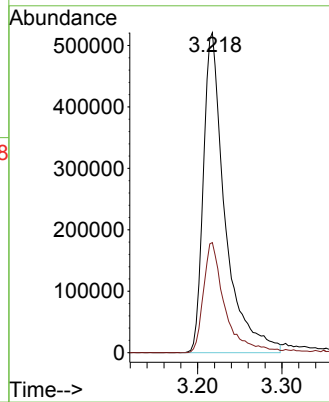
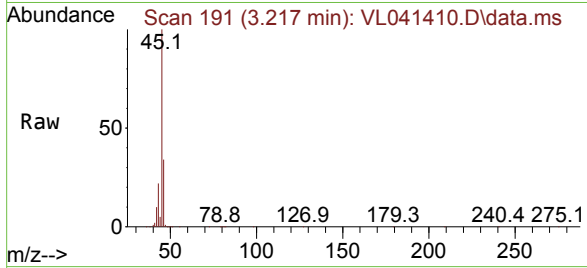




#13
 Ethanol
 Concen: 175.779 ppbv
 RT: 3.217 min Scan# 193
 Delta R.T. -0.007 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

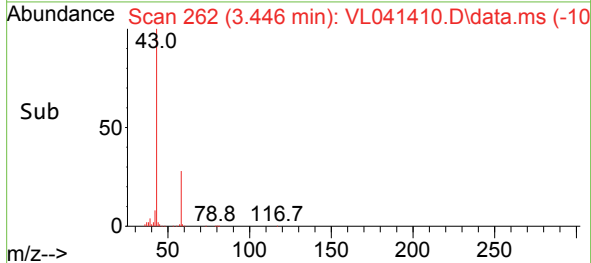
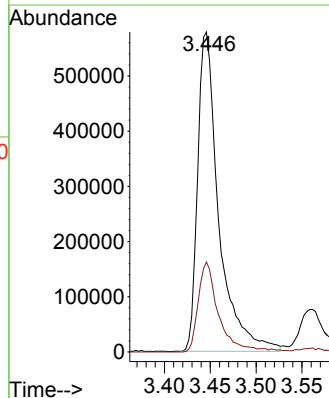
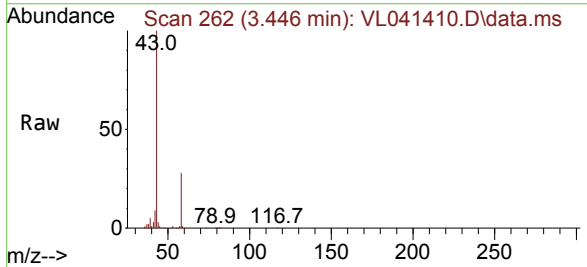
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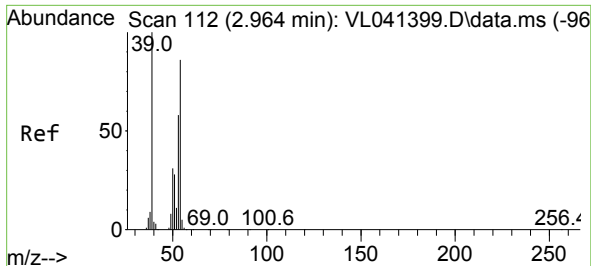
Tgt Ion: 45 Resp: 931387
 Ion Ratio Lower Upper
 45 100
 46 34.7 13.4 53.4



#15
 Acetone
 Concen: 7.513 ppbv
 RT: 3.446 min Scan# 262
 Delta R.T. -0.000 min
 Lab File: VL041410.D
 Acq: 26 Jul 2024 7:22

Tgt Ion: 43 Resp: 925352
 Ion Ratio Lower Upper
 43 100
 58 27.4 21.4 32.2

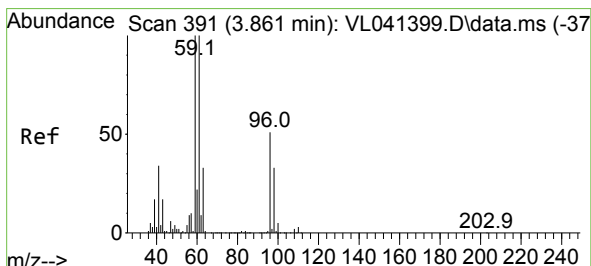
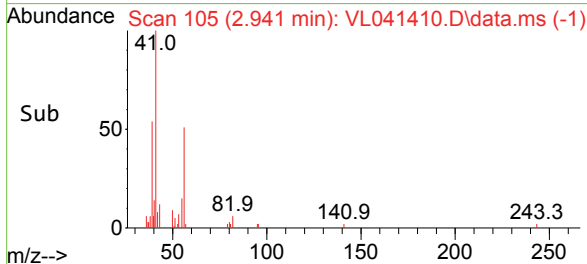
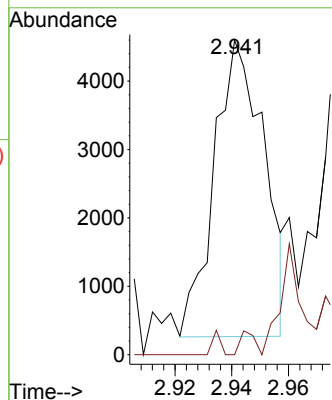
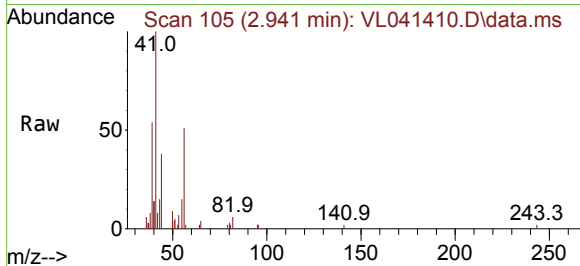




#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 2.941 min Scan# 105
Delta R.T. -0.023 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

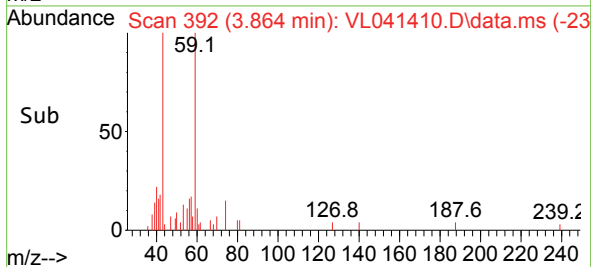
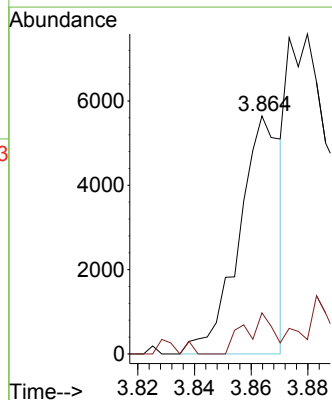
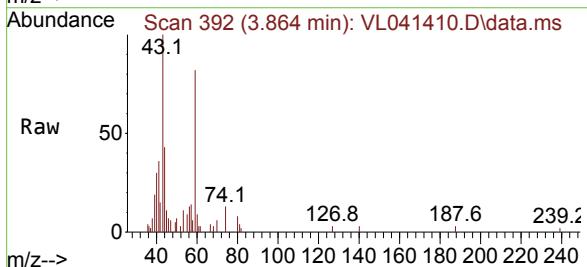
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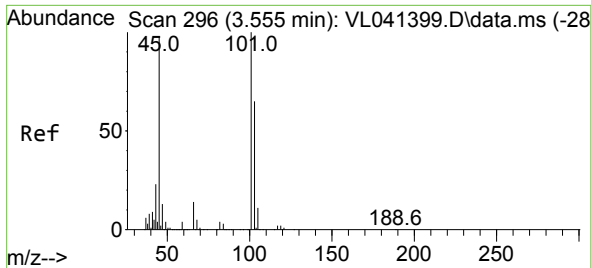
Tgt Ion: 39 Resp: 5296
Ion Ratio Lower Upper
39 100
54 35.2 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.051 ppbv
RT: 3.864 min Scan# 392
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 59 Resp: 5746
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 7.078 ppbv

RT: 3.558 min Scan# 296

Delta R.T. 0.003 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

ClientSampleId :

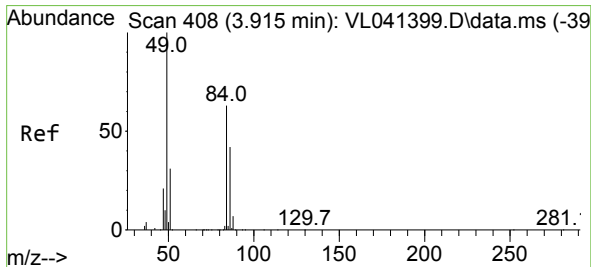
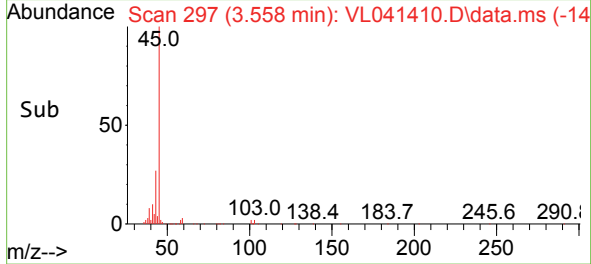
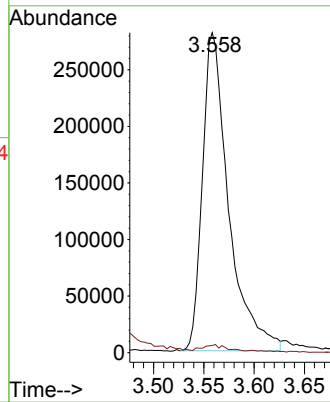
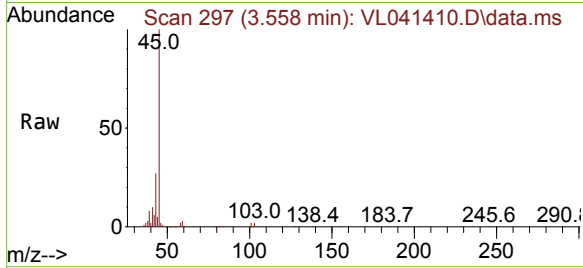
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Tgt Ion: 45 Resp: 509647

Ion Ratio Lower Upper

45 100

58 3.5 1.9 2.9#



#20

Methylene Chloride

Concen: 8.096 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Tgt Ion: 84 Resp: 371853

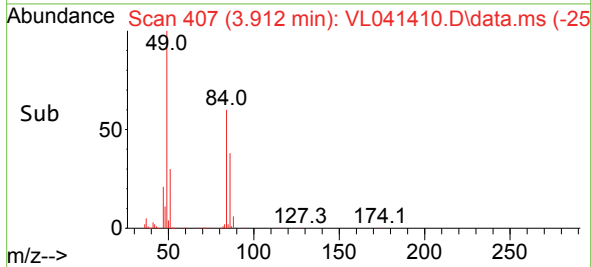
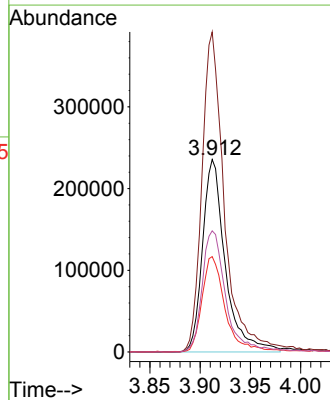
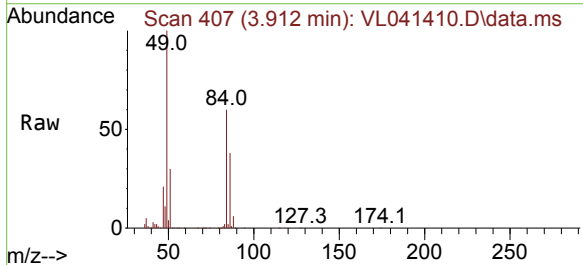
Ion Ratio Lower Upper

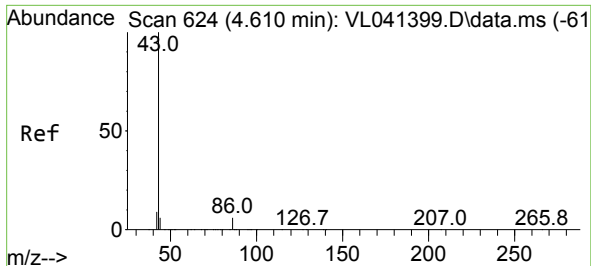
84 100

49 166.1 126.6 190.0

51 49.6 38.6 58.0

86 62.9 53.0 79.4



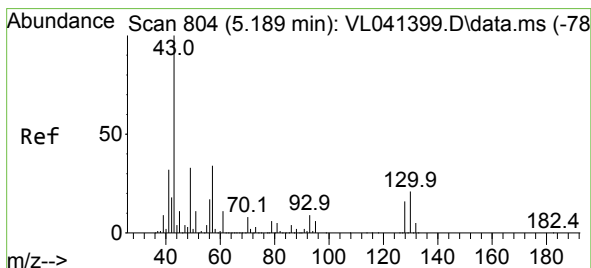
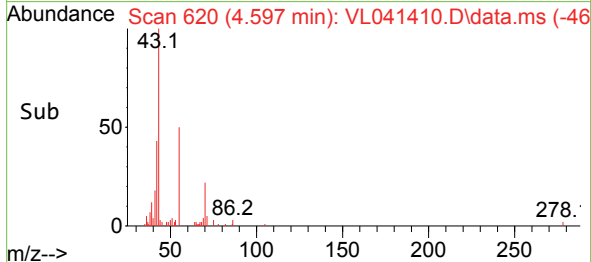
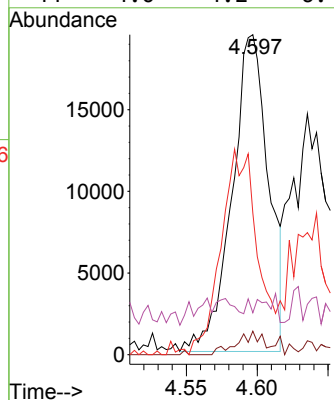
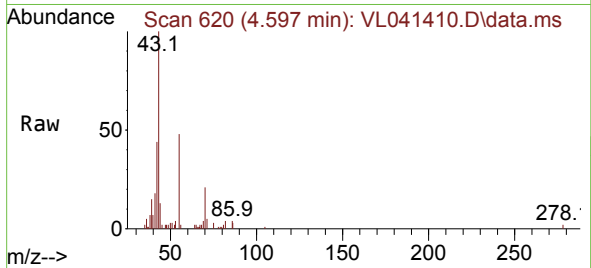


#23
Vinyl Acetate
Concen: 0.369 ppbv
RT: 4.597 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Instrument :
MSVOA_L
ClientSampleId :
1

Tgt Ion: 43 Resp: 34702

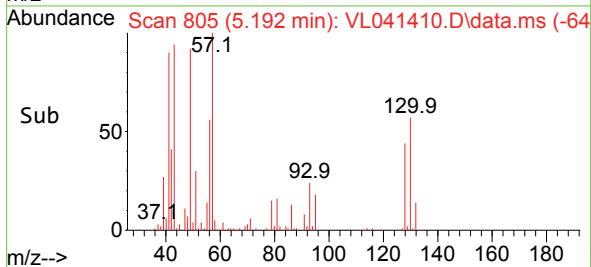
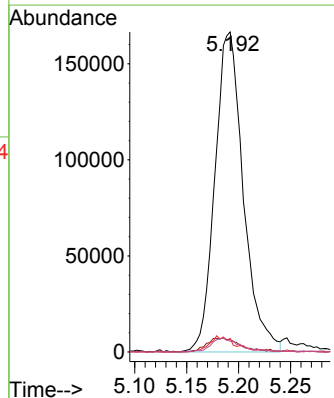
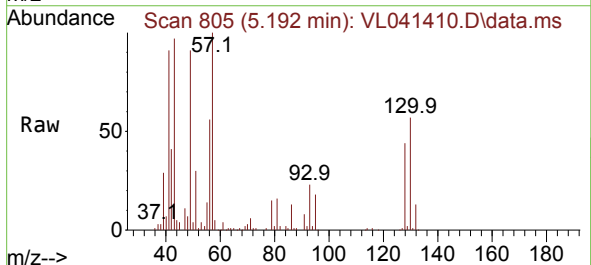
Ion	Ratio	Lower	Upper
43	100		
86	7.4	4.6	6.8#
42	43.1	7.9	11.9#
44	4.0	4.2	6.4#

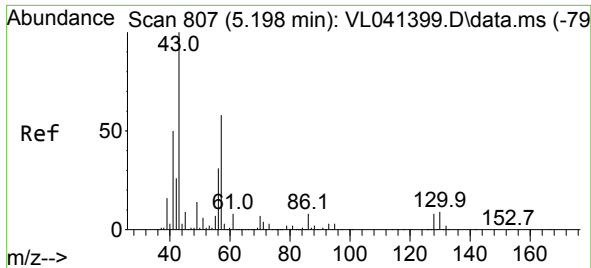


#25
Ethyl Acetate
Concen: 1.295 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 43 Resp: 316973

Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.5	12.7#
61	5.0	8.0	12.0#
70	4.7	5.9	8.9#

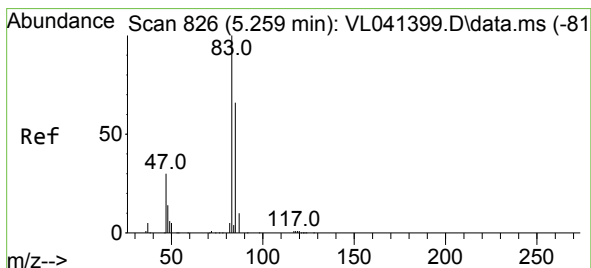
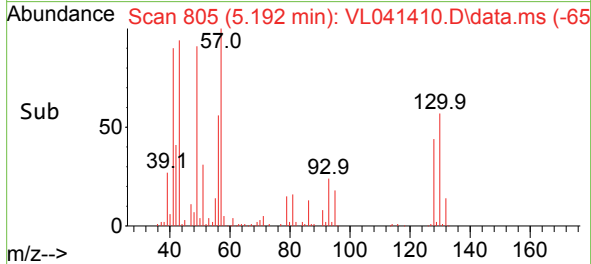
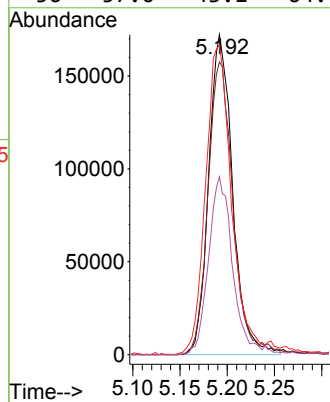
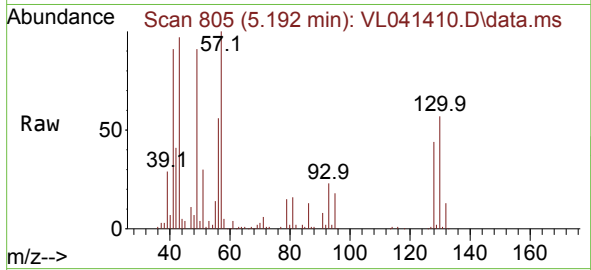




#26
Hexane
Concen: 2.994 ppbv
RT: 5.192 min Scan# 807
Delta R.T. -0.006 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

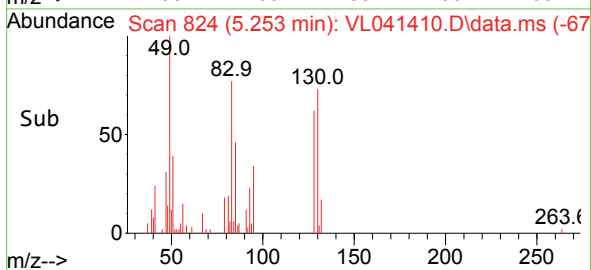
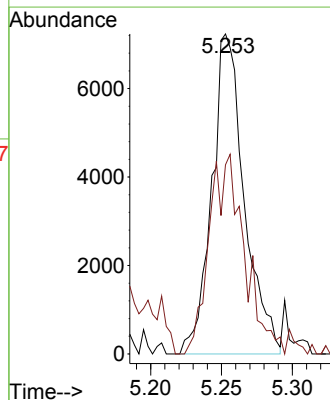
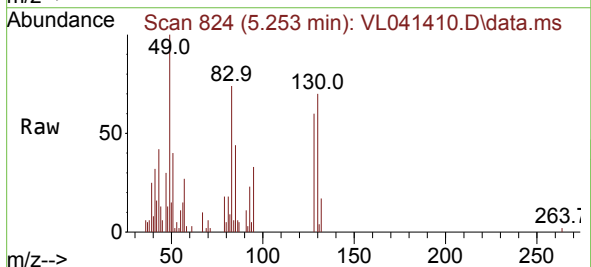
Instrument :
MSVOA_L
ClientSampleId :
1

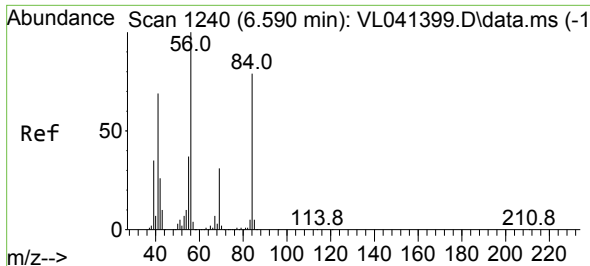
Tgt Ion: 57 Resp: 303947
Ion Ratio Lower Upper
57 100
41 96.2 74.0 111.0
43 108.0 193.6 290.4#
56 57.0 43.1 64.7



#29
Chloroform
Concen: 0.070 ppbv
RT: 5.253 min Scan# 824
Delta R.T. -0.007 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 83 Resp: 11542
Ion Ratio Lower Upper
83 100
85 59.1 53.1 79.7

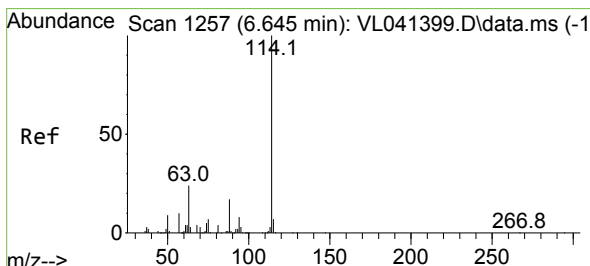
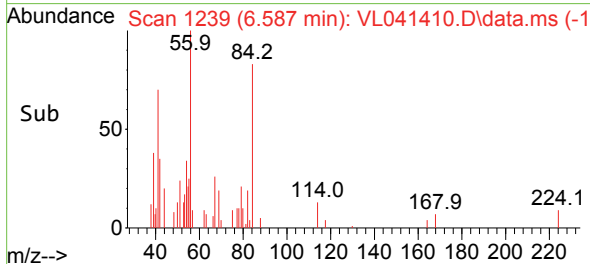
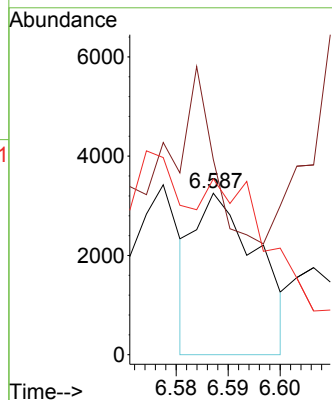
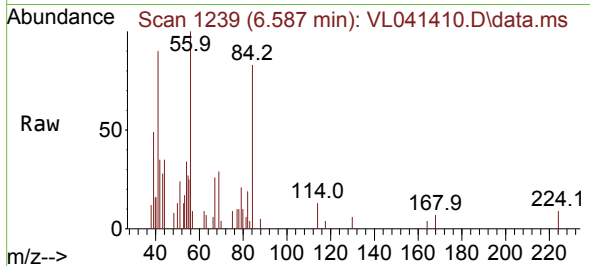




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 6.587 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

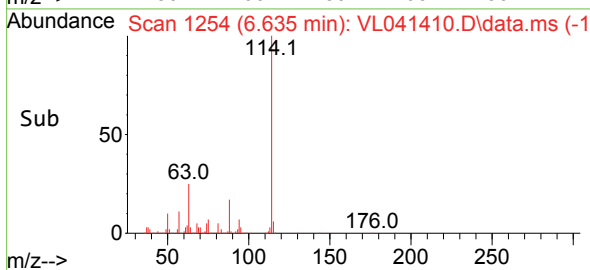
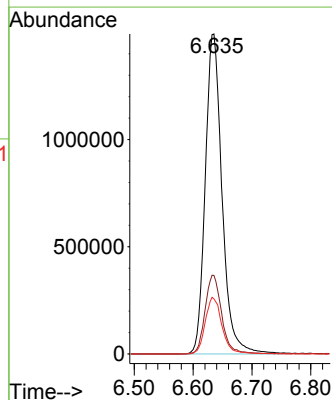
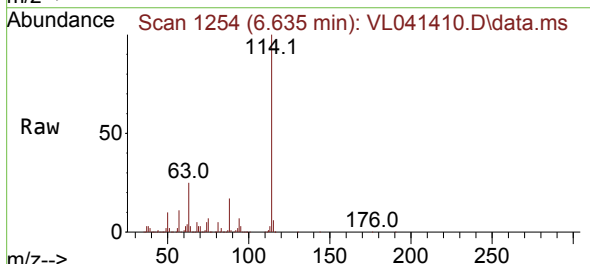
Instrument :
MSVOA_L
ClientSampleId :
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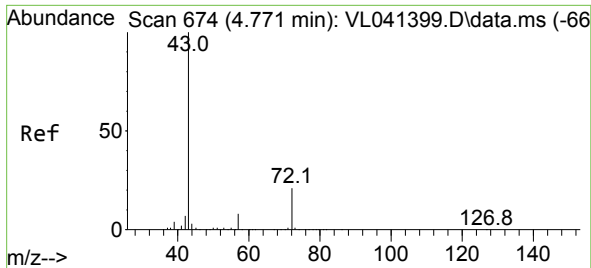
Tgt Ion: 84 Resp: 2710
Ion Ratio Lower Upper
84 100
56 270.0 111.2 166.8#
41 0.0 70.3 105.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. -0.010 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 114 Resp: 2953868
Ion Ratio Lower Upper
114 100
63 24.6 20.3 30.5
88 17.7 14.3 21.5

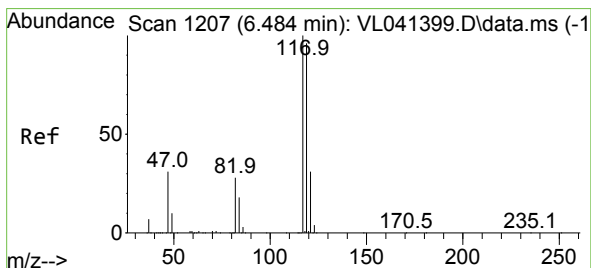
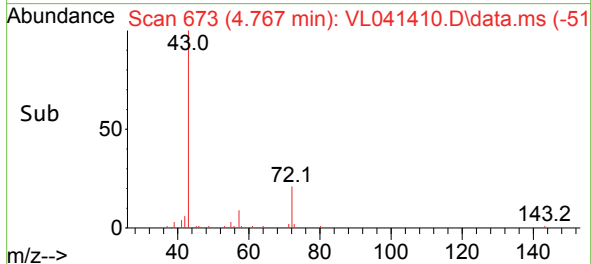
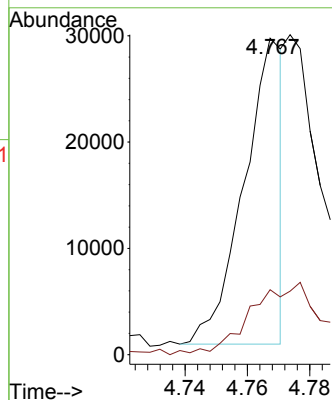
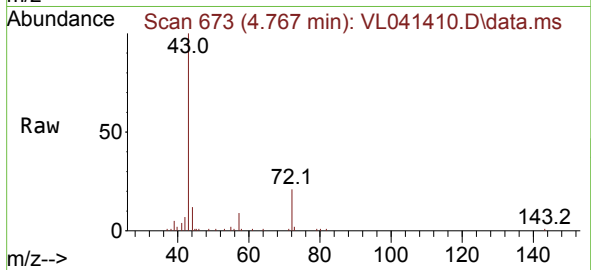




#34
2-Butanone
Concen: 0.174 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

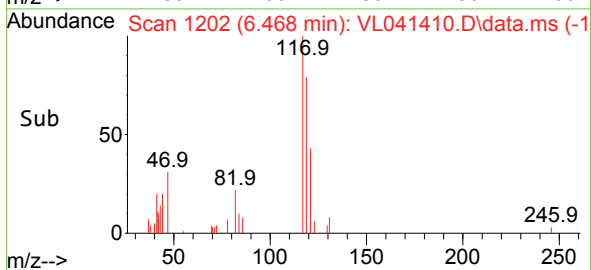
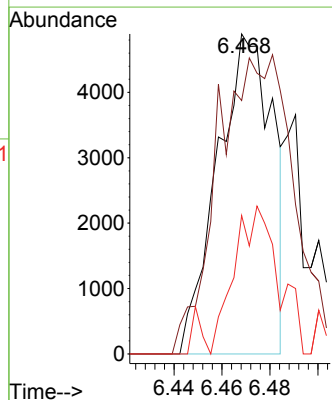
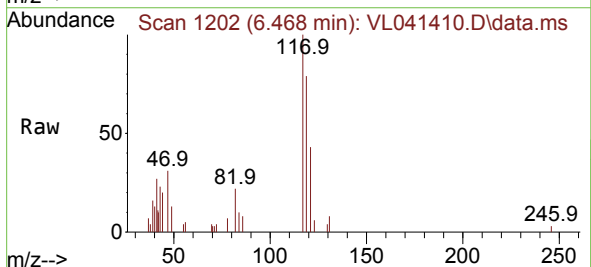
Instrument :
MSVOA_L
ClientSampleId :
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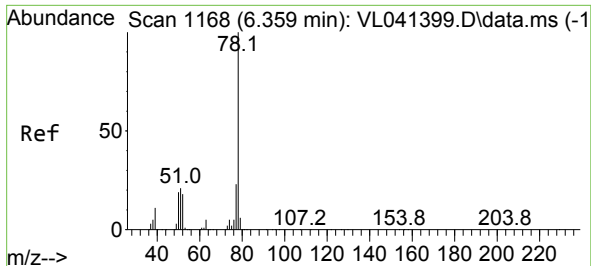
Tgt Ion: 43 Resp: 24863
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 6.468 min Scan# 1202
Delta R.T. -0.016 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 117 Resp: 7819
Ion Ratio Lower Upper
117 100
119 70.1 76.6 115.0#
121 43.2 25.1 37.7#

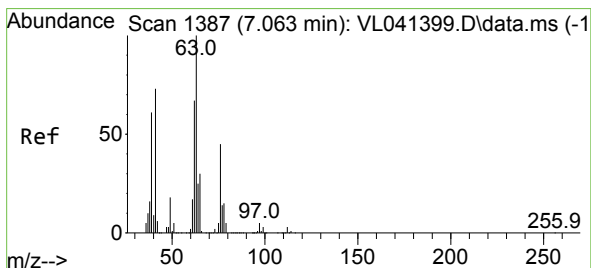
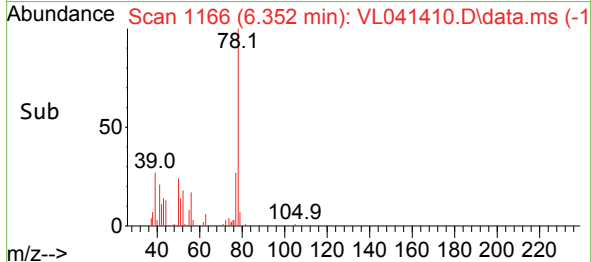
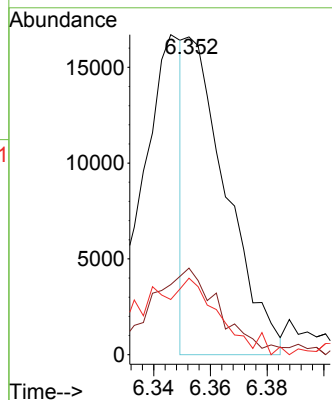
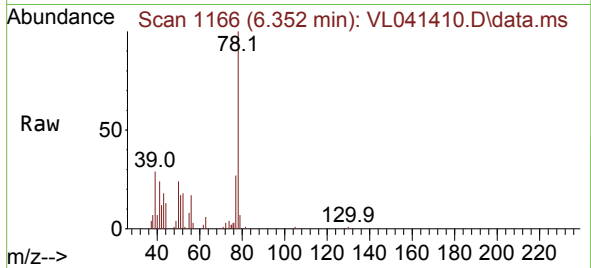




#36
Benzene
Concen: 0.077 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. -0.007 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

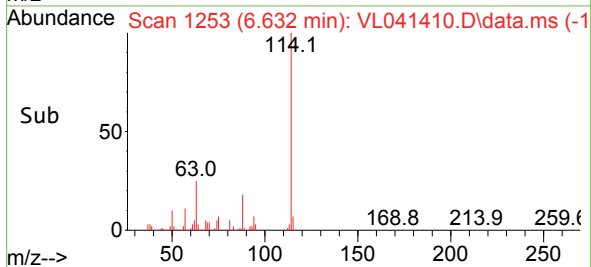
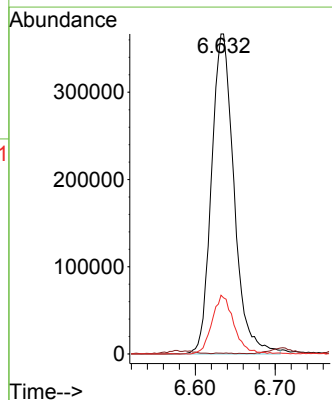
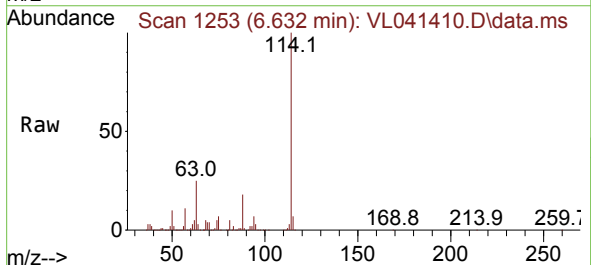
Instrument :
MSVOA_L
ClientSampleId :
1

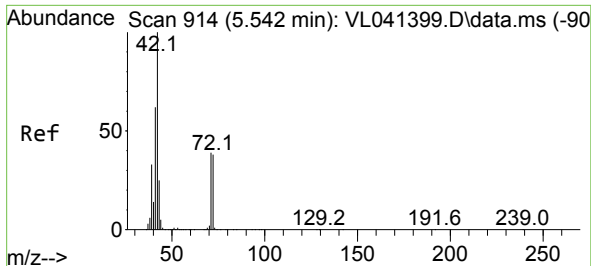
Tgt Ion:	78	Resp:	16644
Ion	Ratio	Lower	Upper
78	100		
77	26.4	18.1	27.1
50	20.4	15.5	23.3



#39
1,2-Dichloropropane
Concen: 8.682 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.431 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion:	63	Resp:	717426
Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.3	87.5#
62	18.4	53.9	80.9#





#41

Tetrahydrofuran

Concen: 0.048 ppbv

RT: 5.536 min Scan# 91

Delta R.T. -0.006 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

ClientSampleId :

1

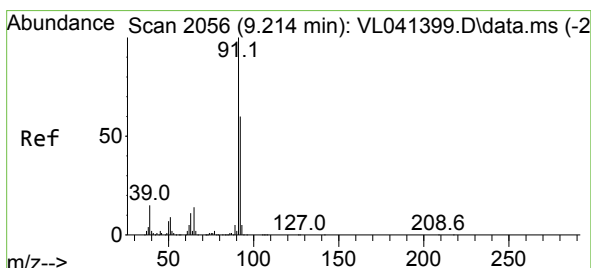
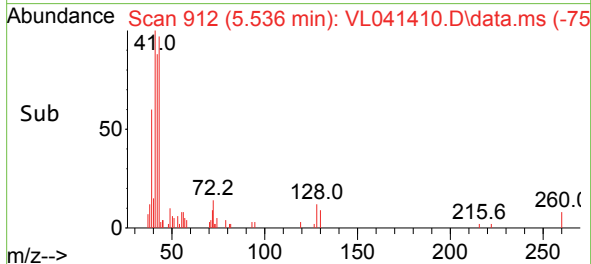
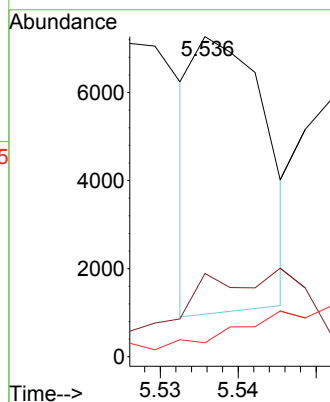
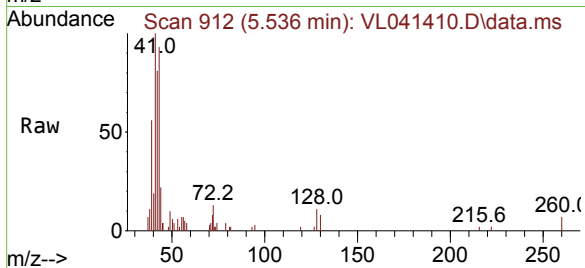
Tgt Ion: 42 Resp: 3962

Ion Ratio Lower Upper

42 100

72 0.0 31.2 46.8#

71 0.0 30.5 45.7#



#53

Toluene

Concen: 0.185 ppbv

RT: 9.204 min Scan# 2053

Delta R.T. -0.010 min

Lab File: VL041410.D

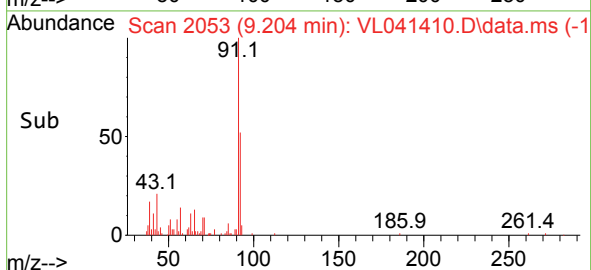
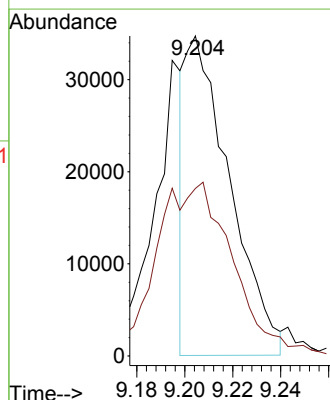
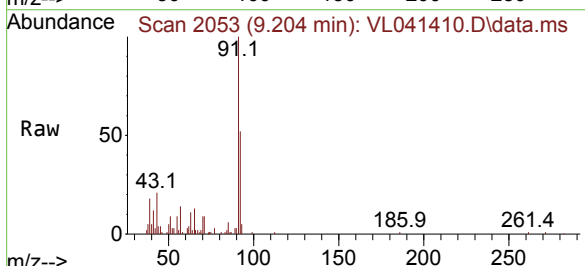
Acq: 26 Jul 2024 7:22

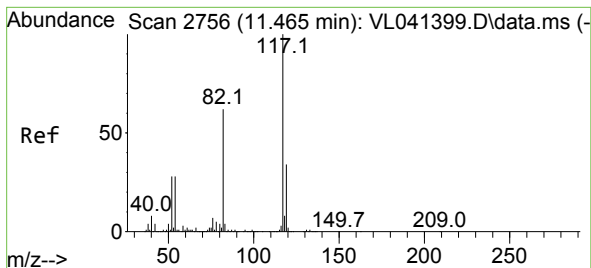
Tgt Ion: 91 Resp: 44420

Ion Ratio Lower Upper

91 100

92 95.3 48.7 73.1#

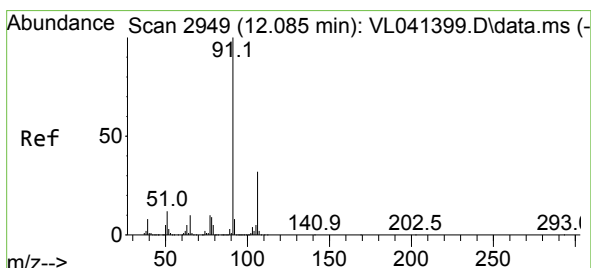
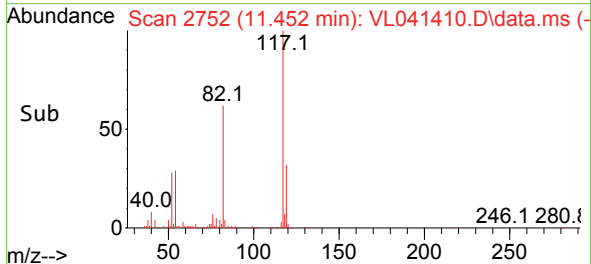
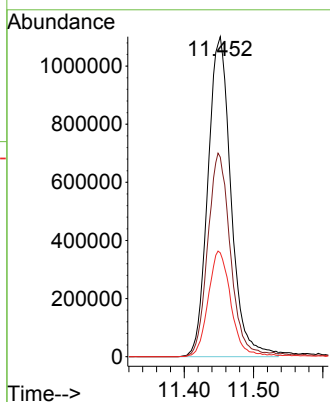
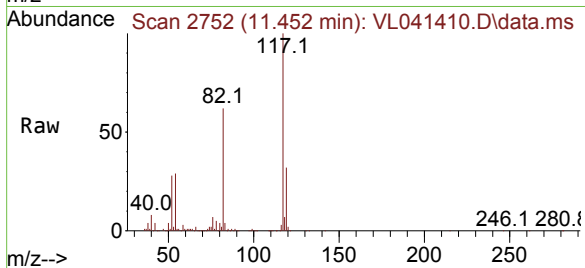




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

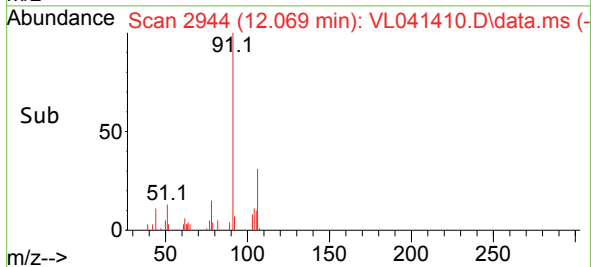
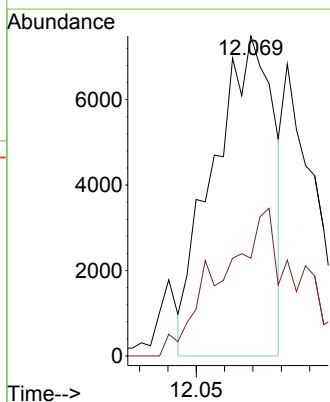
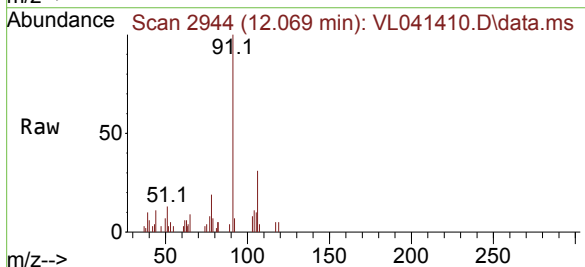
Instrument :
MSVOA_L
ClientSampleId :
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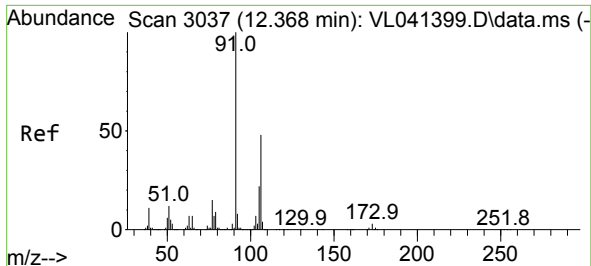
Tgt Ion:117 Resp: 2551447
Ion Ratio Lower Upper
117 100
82 63.6 51.0 76.6
119 33.2 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.038 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. -0.016 min
Lab File: VL041410.D
Acq: 26 Jul 2024 7:22

Tgt Ion: 91 Resp: 11055
Ion Ratio Lower Upper
91 100
106 30.0 25.8 38.8





#59

m/p-Xylene

Concen: 0.046 ppbv

RT: 12.352 min Scan# 3037

Delta R.T. -0.016 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Instrument :

MSVOA_L

ClientSampleId :

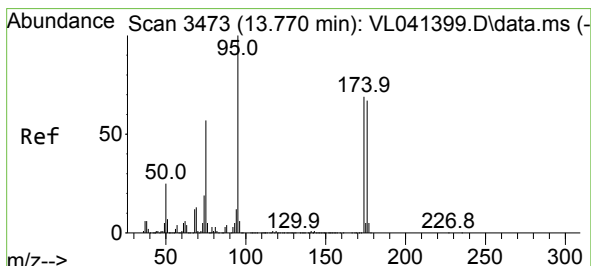
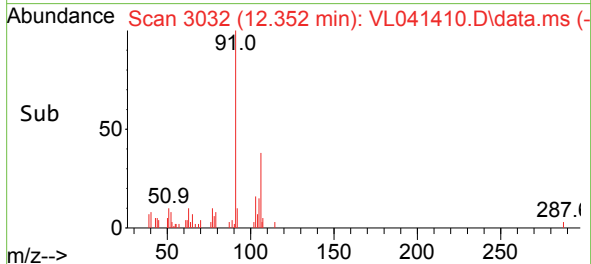
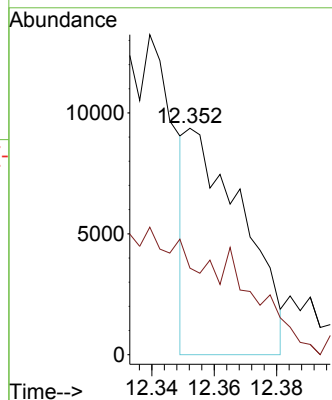
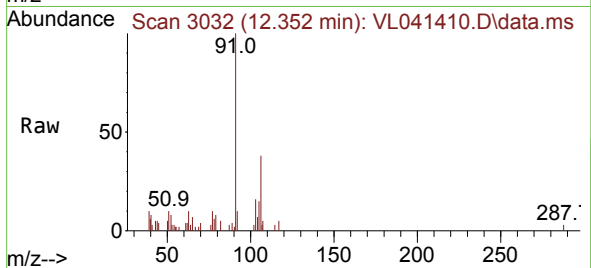
1

Tgt Ion: 91 Resp: 11678

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.391 ppbv

RT: 13.764 min Scan# 3471

Delta R.T. -0.007 min

Lab File: VL041410.D

Acq: 26 Jul 2024 7:22

Tgt Ion: 95 Resp: 1843845

Ion Ratio Lower Upper

95 100

174 72.7 56.3 84.5

175 5.2 4.0 6.0

