

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041415.D
 Acq On : 26 Jul 2024 10:45
 Operator : SY/MD
 Sample : P3356-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 2

Quant Time: Jul 29 01:47:10 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 : 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	931602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2568798	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2443059	10.000	ppbv	#-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1820709	9.684	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

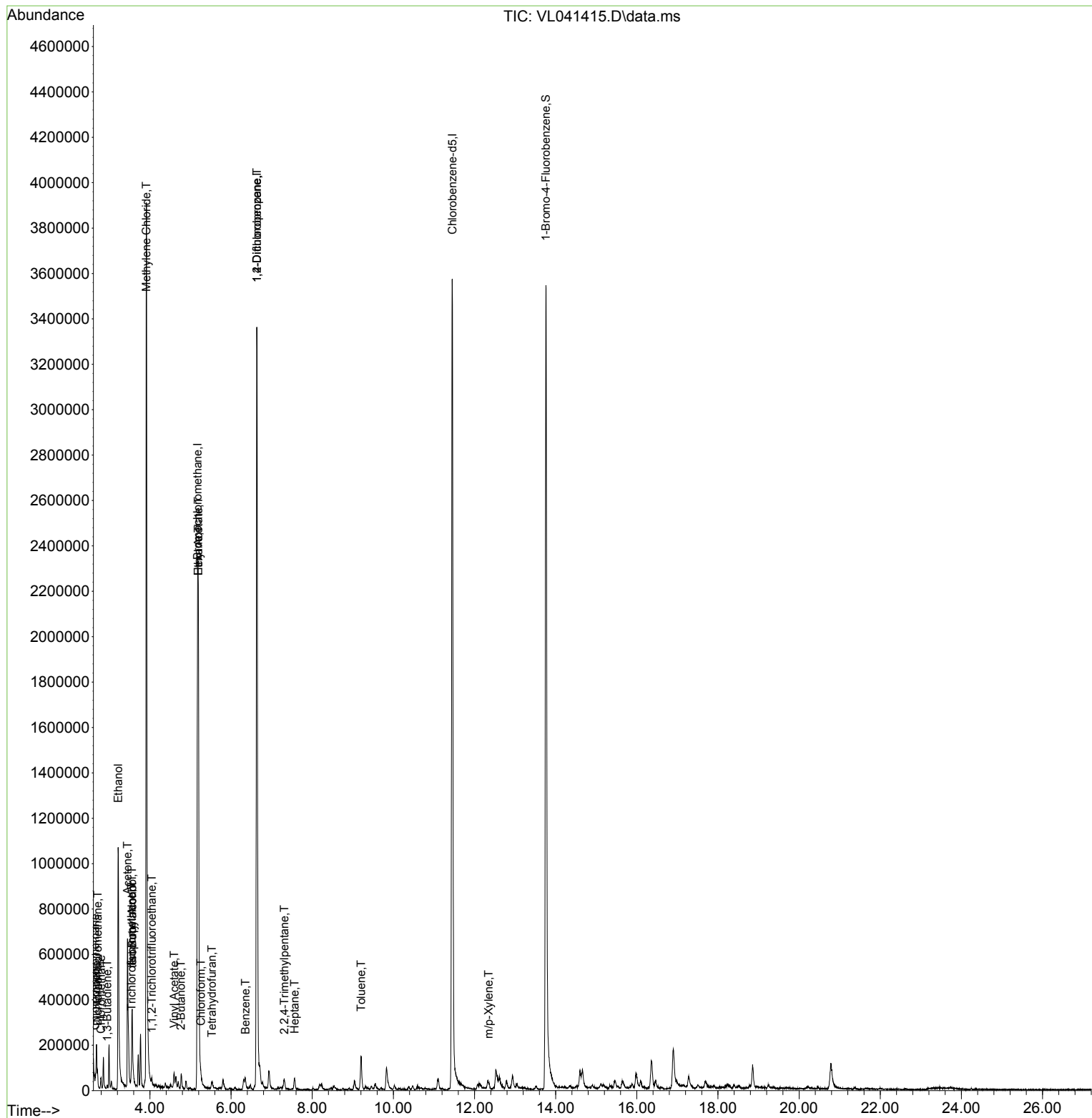
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	37587	0.235	ppbv	93
3) Chlorodifluoromethane	2.652	51	56487	0.509	ppbv #	89
4) Chloromethane	2.796	50	36301	0.615	ppbv	94
9) Propene	2.677	41	60286	1.183	ppbv	87
10) Heptane	7.565	43	9276	0.081	ppbv #	27
11) Trichlorofluoromethane	3.546	101	34342	0.241	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.044	101	5416	0.053	ppbv #	51
13) Ethanol	3.218	45	1102864	242.203	ppbv	98
15) Acetone	3.449	43	664035	6.273	ppbv	100
16) 1,3-Butadiene	2.947	39	3439	0.061	ppbv #	38
17) tert-Butyl alcohol	3.565	59	13927	0.144	ppbv	100
19) Isopropyl Alcohol	3.562	45	353154	5.707	ppbv #	94
20) Methylene Chloride	3.912	84	1331535	33.734	ppbv	99
23) Vinyl Acetate	4.597	43	47805	0.591	ppbv #	86
25) Ethyl Acetate	5.195	43	454063	2.159	ppbv #	77
26) Hexane	5.195	57	645807	7.403	ppbv #	38
29) Chloroform	5.256	83	10098	0.071	ppbv #	76
34) 2-Butanone	4.767	43	72326	0.582	ppbv	97
36) Benzene	6.356	78	12631	0.067	ppbv	97
39) 1,2-Dichloropropane	6.635	63	624649	8.692	ppbv #	24
41) Tetrahydrofuran	5.526	42	4575	0.064	ppbv #	63
44) 2,2,4-Trimethylpentane	7.311	57	18630	0.059	ppbv #	1
53) Toluene	9.204	91	73723	0.353	ppbv	97
59) m/p-Xylene	12.349	91	8482	0.035	ppbv #	31

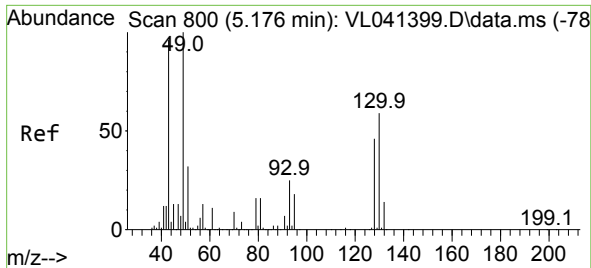
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 29 01:47:10 2024
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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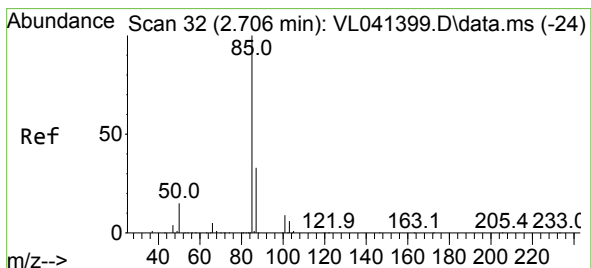
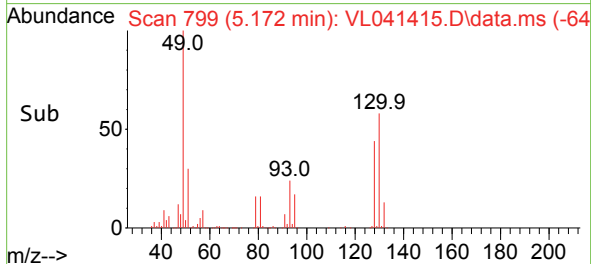
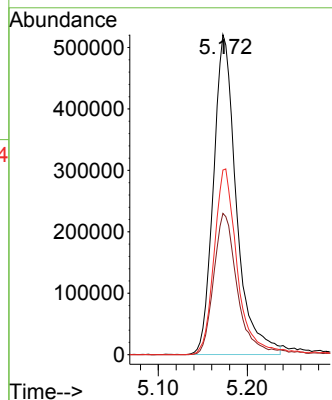
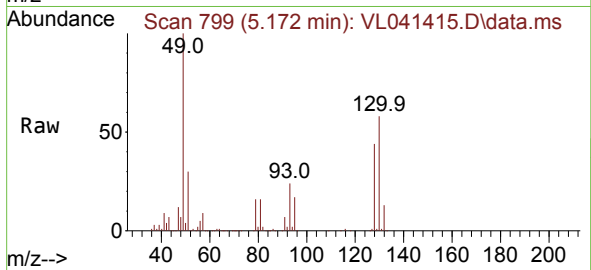




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 79
Delta R.T. -0.004 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

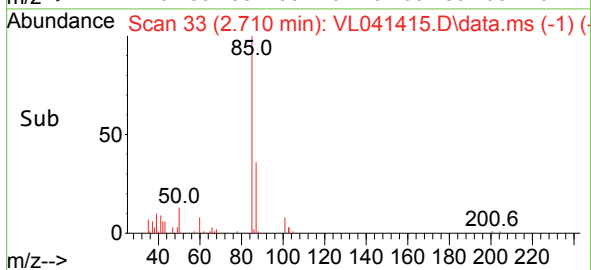
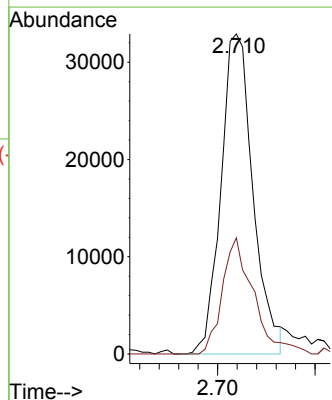
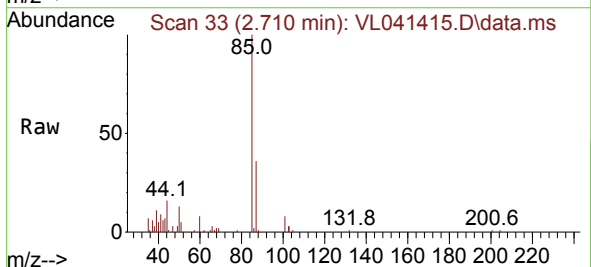
Instrument :
MSVOA_L
ClientSampleId :
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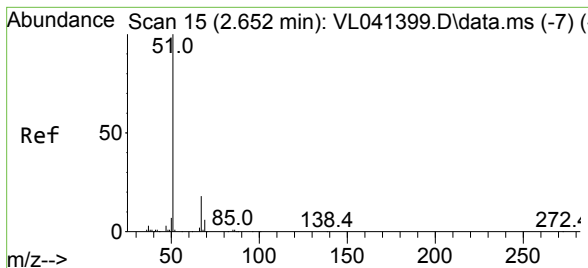
Tgt Ion: 49 Resp: 931602
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.4
130 60.6 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.235 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.003 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion: 85 Resp: 37587
Ion Ratio Lower Upper
85 100
87 36.3 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.509 ppbv

RT: 2.652 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Instrument :

MSVOA_L

ClientSampleId :

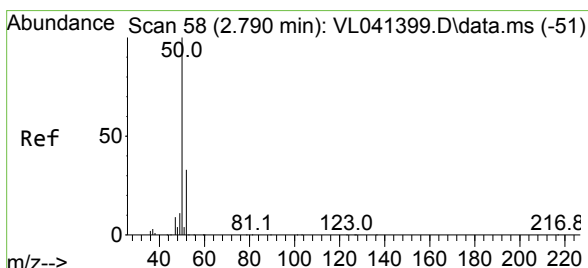
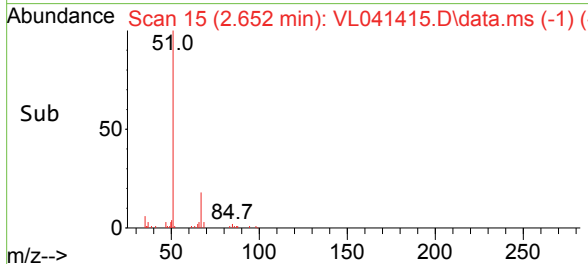
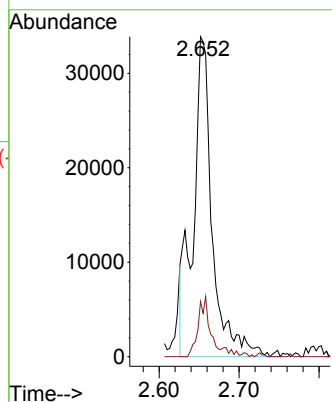
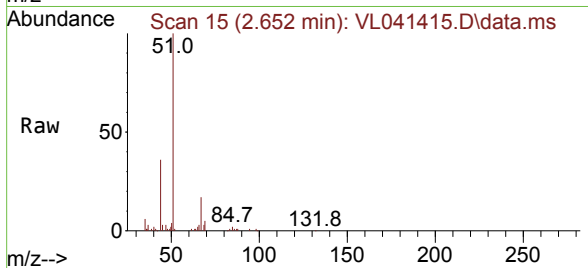
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Tgt Ion: 51 Resp: 56487

Ion Ratio Lower Upper

51 100

67 13.2 14.5 21.7#



#4

Chloromethane

Concen: 0.615 ppbv

RT: 2.796 min Scan# 60

Delta R.T. 0.006 min

Lab File: VL041415.D

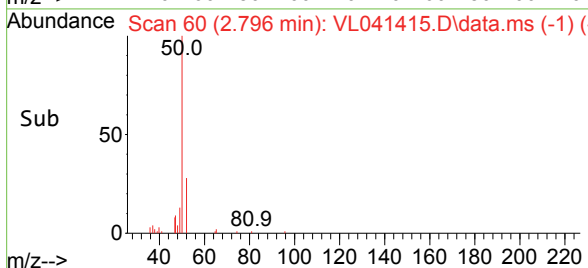
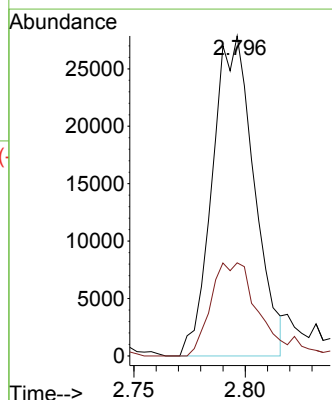
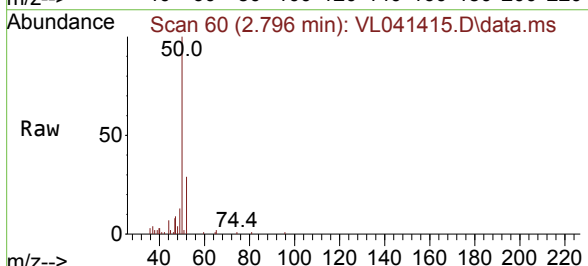
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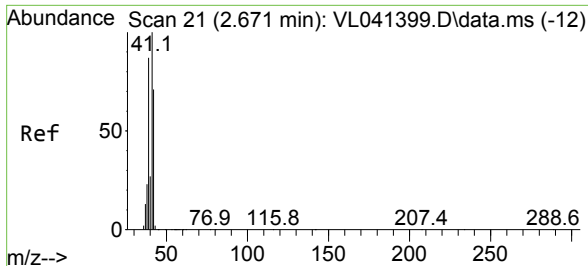
Tgt Ion: 50 Resp: 36301

Ion Ratio Lower Upper

50 100

52 29.3 26.1 39.1

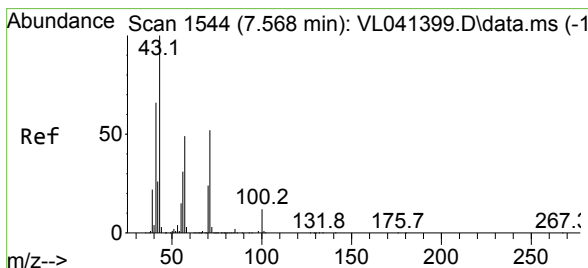
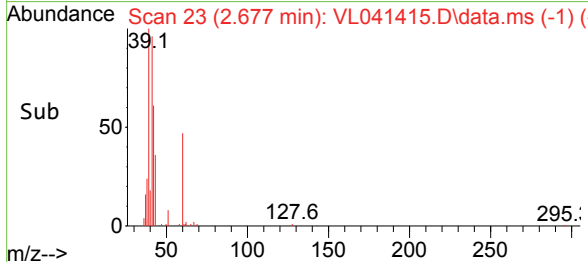
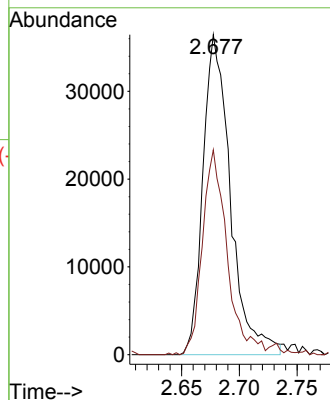
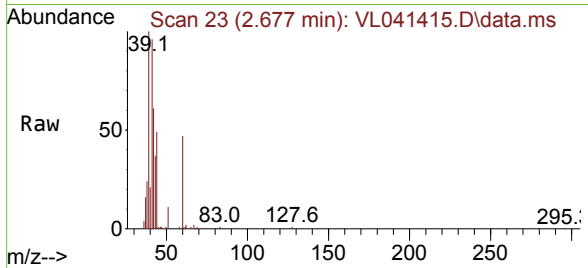




#9
 Propene
 Concen: 1.183 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

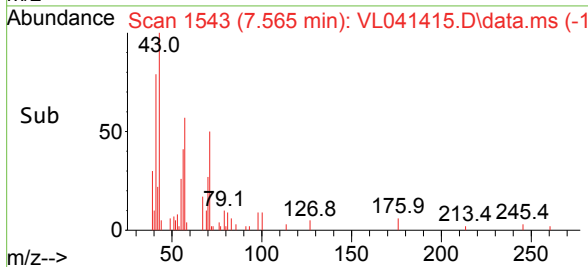
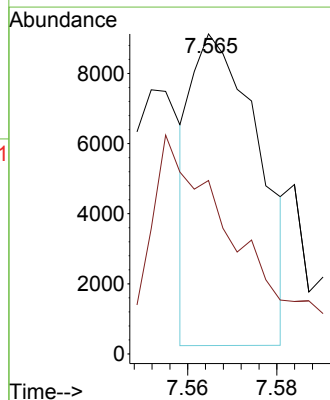
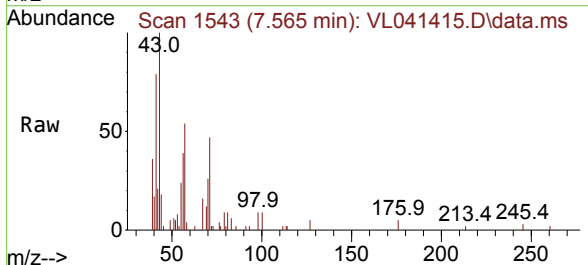
Instrument :
 MSVOA_L
 ClientSampleId :
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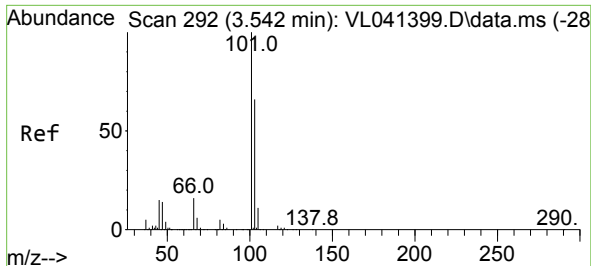
Tgt Ion: 41 Resp: 60286
 Ion Ratio Lower Upper
 41 100
 42 59.3 55.9 83.9



#10
 Heptane
 Concen: 0.081 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. -0.003 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

Tgt Ion: 43 Resp: 9276
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#

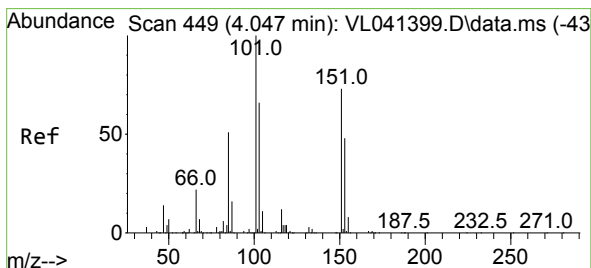
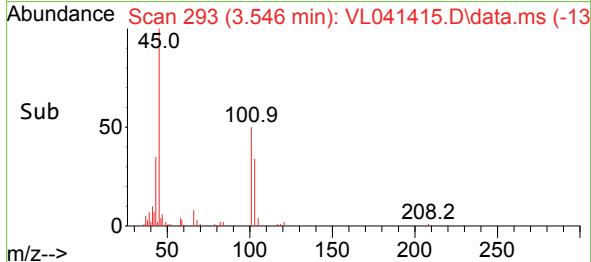
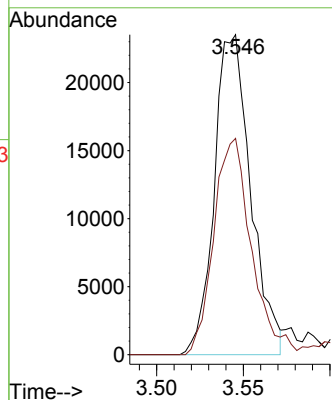
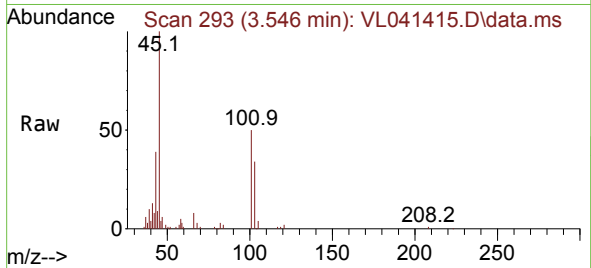




#11
 Trichlorofluoromethane
 Concen: 0.241 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.003 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

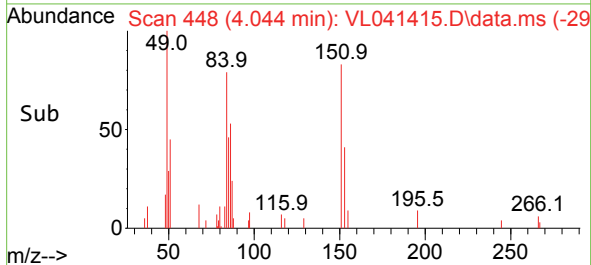
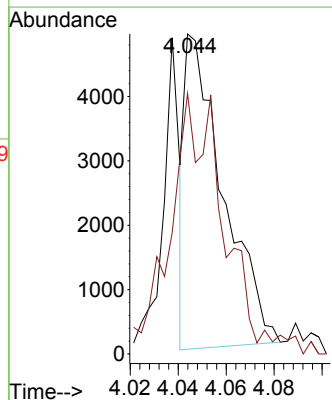
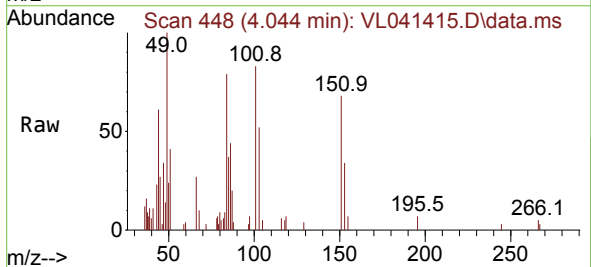
Instrument :
 MSVOA_L
 ClientSampleId :
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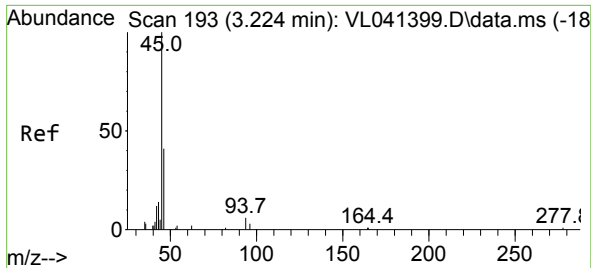
Tgt Ion:101 Resp: 34342
 Ion Ratio Lower Upper
 101 100
 103 67.6 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.053 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. -0.003 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

Tgt Ion:101 Resp: 5416
 Ion Ratio Lower Upper
 101 100
 151 115.8 59.4 89.2#

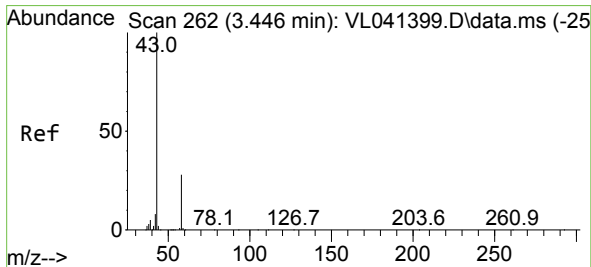
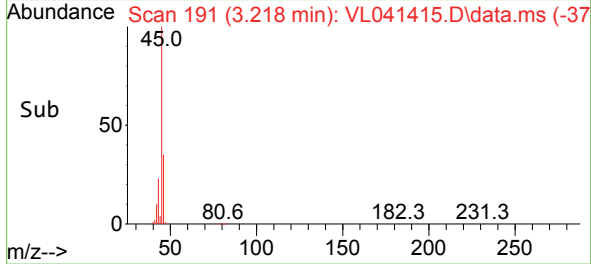
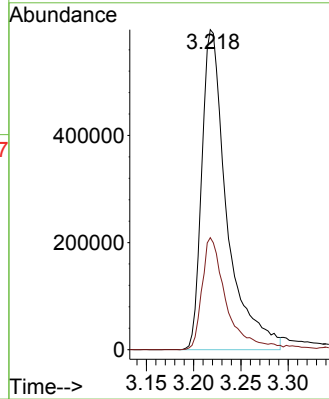
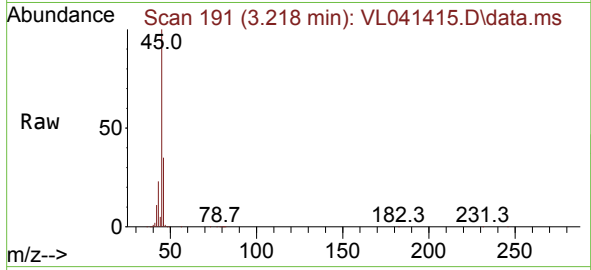




#13
Ethanol
Concen: 242.203 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.006 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

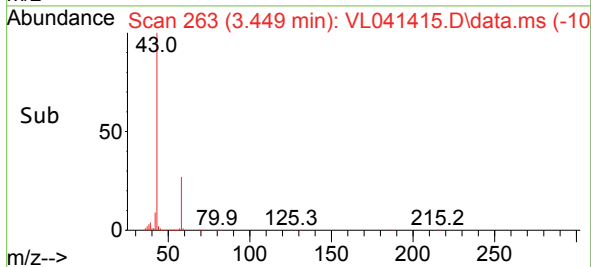
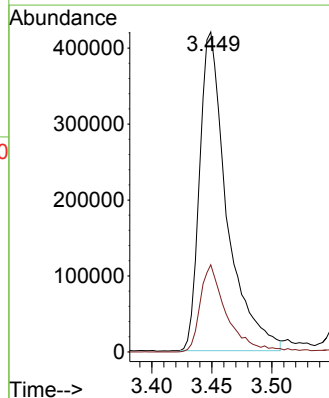
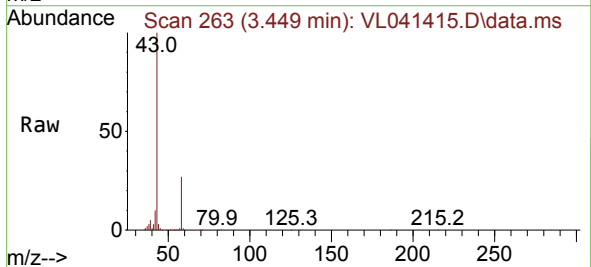
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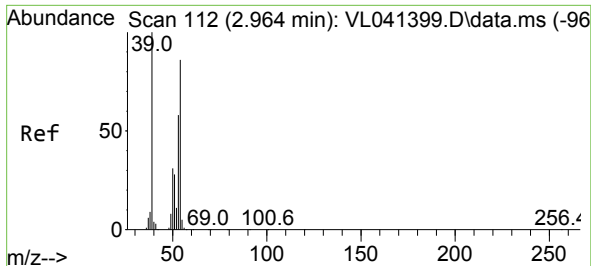
Tgt Ion: 45 Resp: 1102864
Ion Ratio Lower Upper
45 100
46 34.8 13.4 53.4



#15
Acetone
Concen: 6.273 ppbv
RT: 3.449 min Scan# 263
Delta R.T. 0.003 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion: 43 Resp: 664035
Ion Ratio Lower Upper
43 100
58 26.9 21.4 32.2

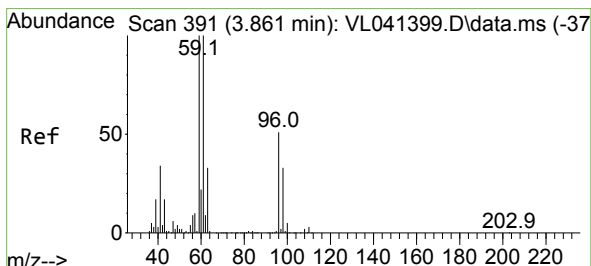
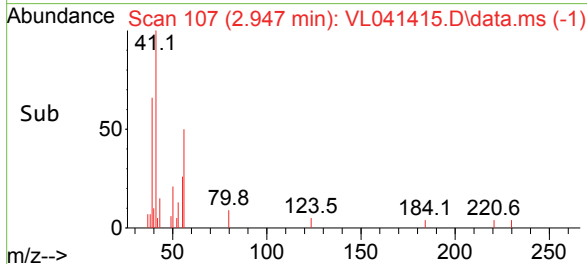
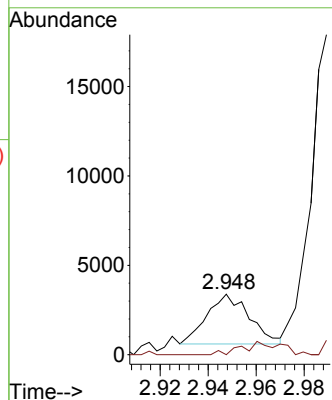
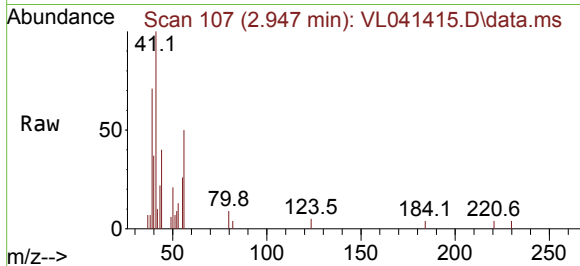




#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 2.947 min Scan# 10
Delta R.T. -0.016 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

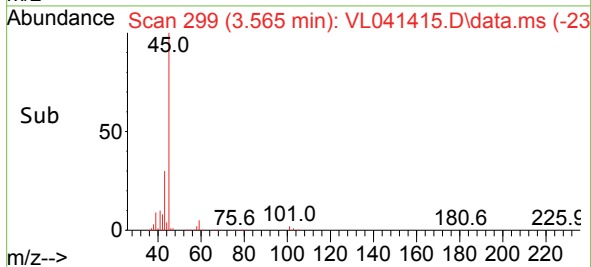
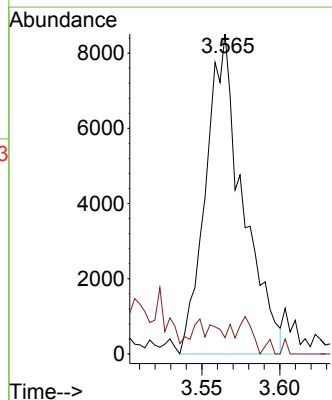
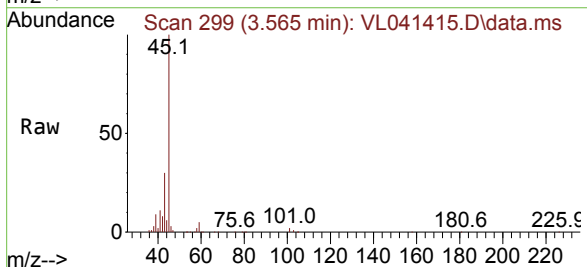
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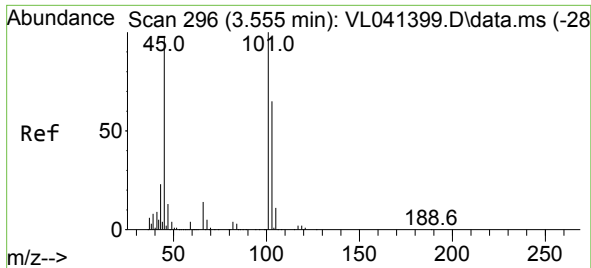
Tgt Ion: 39 Resp: 3439
Ion Ratio Lower Upper
39 100
54 23.8 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.144 ppbv
RT: 3.565 min Scan# 299
Delta R.T. -0.296 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion: 59 Resp: 13927
Ion Ratio Lower Upper
59 100
57 10.6 8.6 12.8





#19

Isopropyl Alcohol

Concen: 5.707 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.006 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Instrument :

MSVOA_L

ClientSampleId :

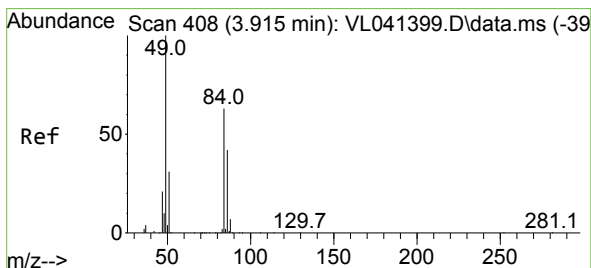
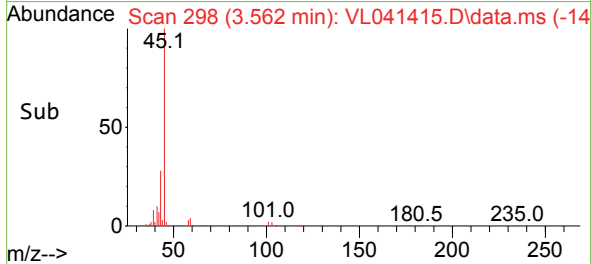
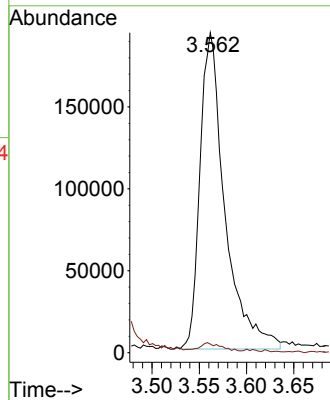
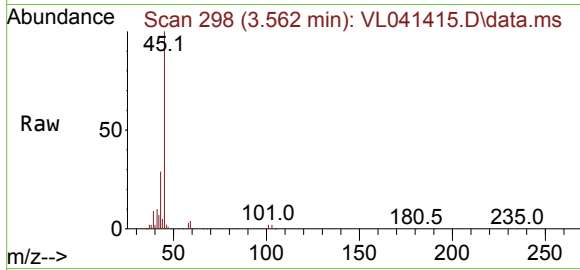
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Tgt Ion: 45 Resp: 353154

Ion Ratio Lower Upper

45 100

58 4.3 1.9 2.9#



#20

Methylene Chloride

Concen: 33.734 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Tgt Ion: 84 Resp: 1331535

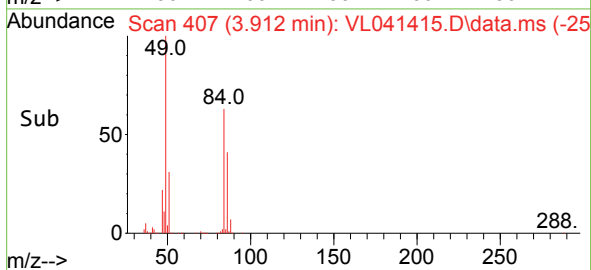
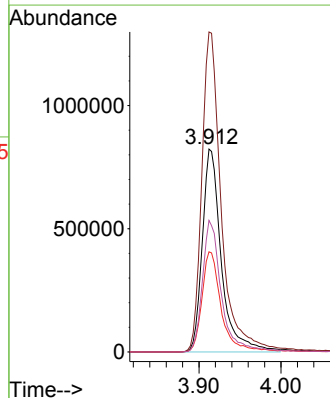
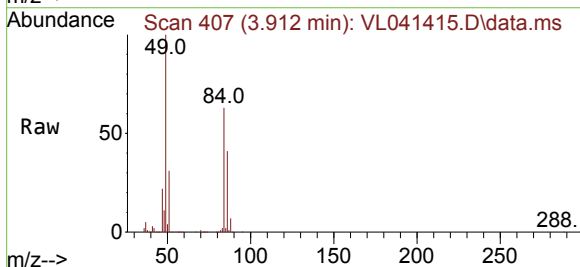
Ion Ratio Lower Upper

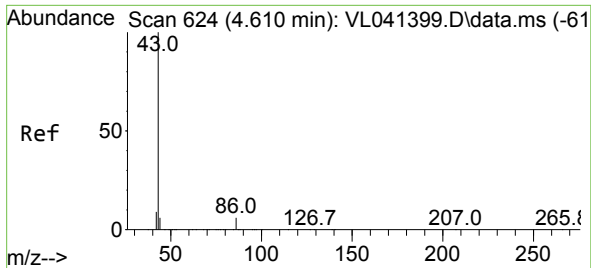
84 100

49 157.7 126.6 190.0

51 49.3 38.6 58.0

86 64.8 53.0 79.4

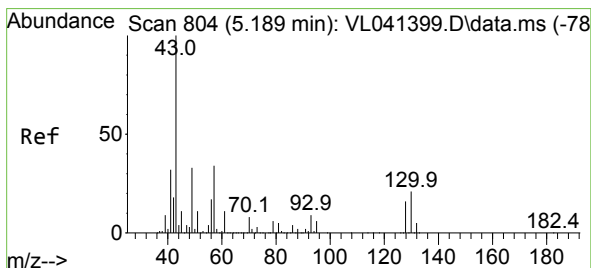
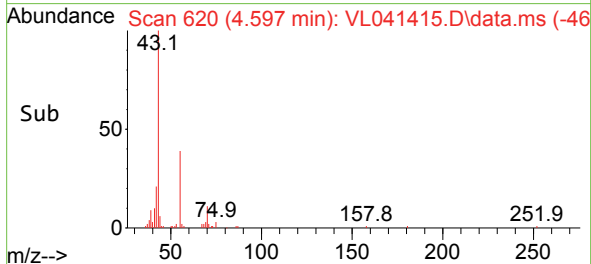
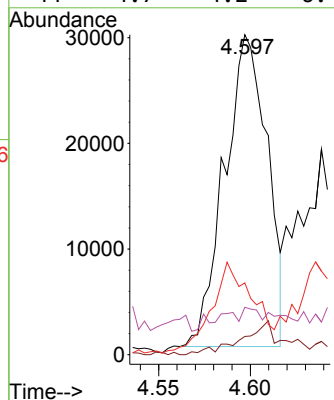
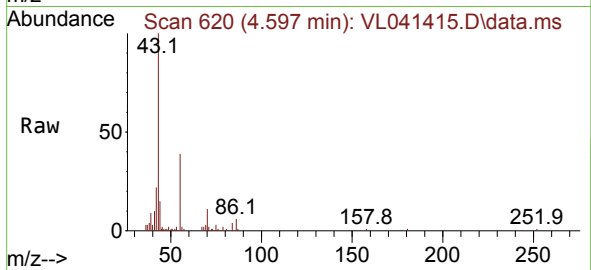




#23
 Vinyl Acetate
 Concen: 0.591 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

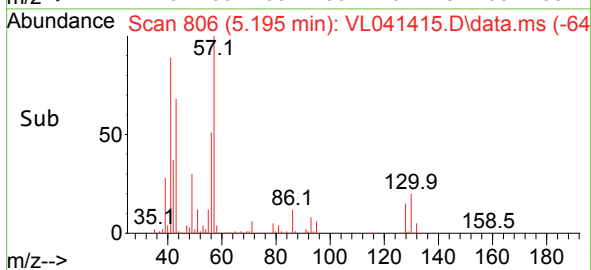
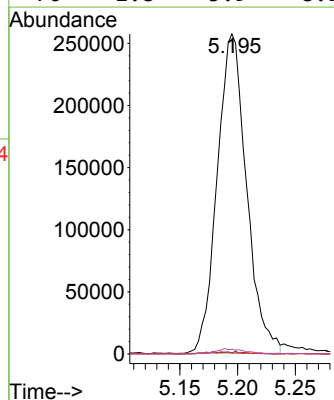
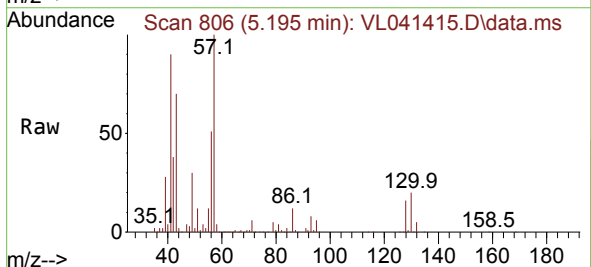
Instrument :
 MSVOA_L
 ClientSampleId :
 2

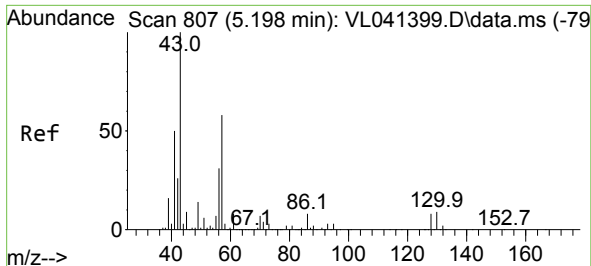
Tgt Ion:	43	Resp:	47805
Ion	Ratio	Lower	Upper
43	100		
86	5.8	4.6	6.8
42	20.7	7.9	11.9#
44	4.7	4.2	6.4



#25
 Ethyl Acetate
 Concen: 2.159 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. 0.006 min
 Lab File: VL041415.D
 Acq: 26 Jul 2024 10:45

Tgt Ion:	43	Resp:	454063
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.5	12.7#
61	0.7	8.0	12.0#
70	1.8	5.9	8.9#

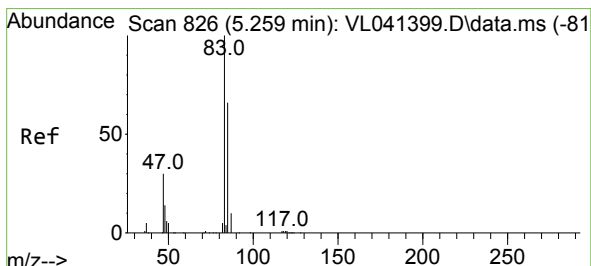
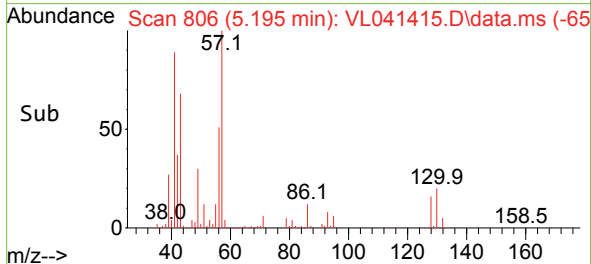
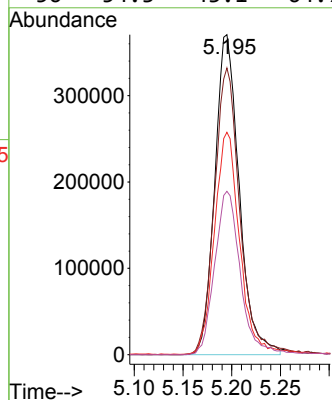
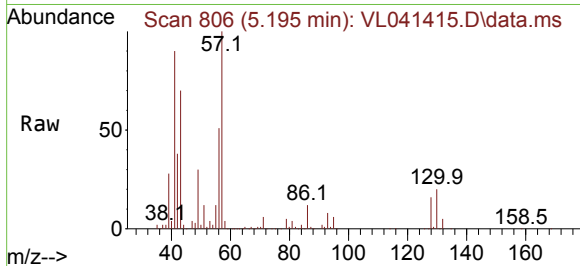




#26
Hexane
Concen: 7.403 ppbv
RT: 5.195 min Scan# 807
Delta R.T. -0.003 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

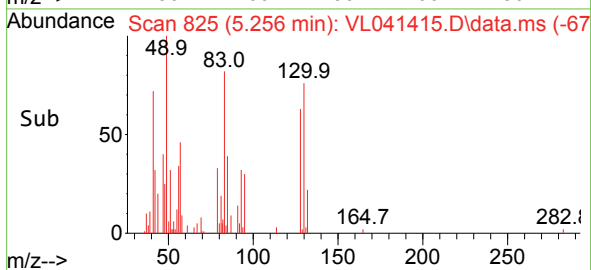
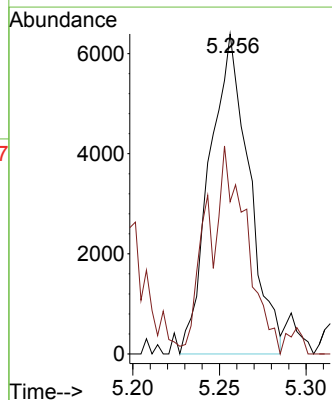
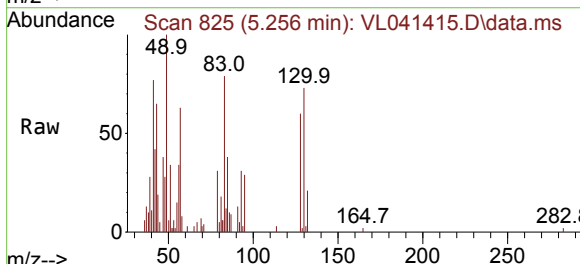
Instrument :
MSVOA_L
ClientSampleId :
2

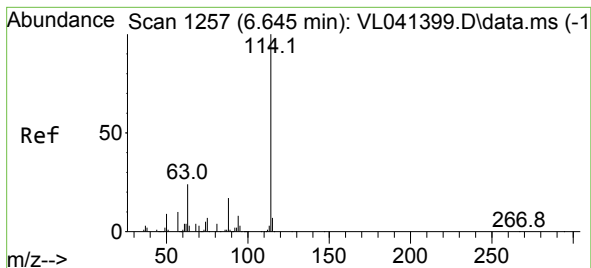
Tgt Ion: 57 Resp: 645807
Ion Ratio Lower Upper
57 100
41 94.5 74.0 111.0
43 72.4 193.6 290.4#
56 54.3 43.1 64.7



#29
Chloroform
Concen: 0.071 ppbv
RT: 5.256 min Scan# 825
Delta R.T. -0.003 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion: 83 Resp: 10098
Ion Ratio Lower Upper
83 100
85 47.6 53.1 79.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 114

Delta R.T. -0.010 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Instrument :

MSVOA_L

ClientSampleId :

2

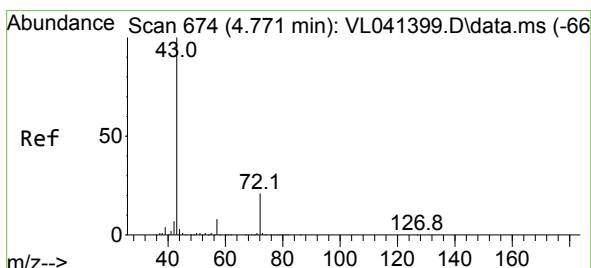
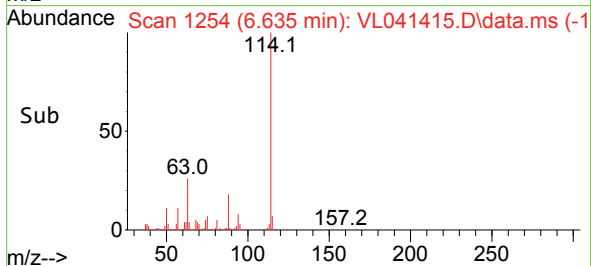
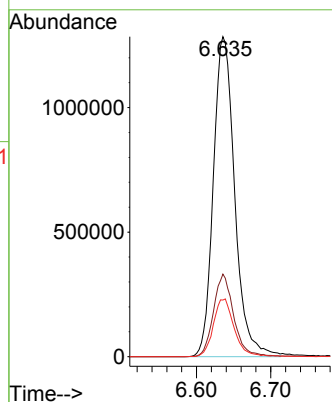
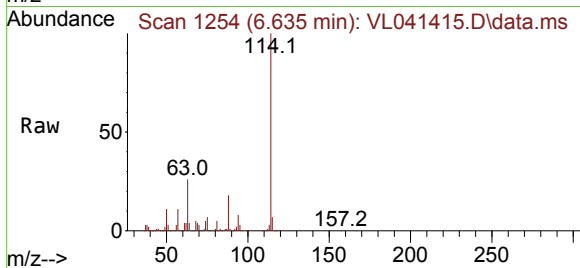
Tgt Ion:114 Resp: 2568798

Ion Ratio Lower Upper

114 100

63 24.7 20.3 30.5

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 0.582 ppbv

RT: 4.767 min Scan# 673

Delta R.T. -0.003 min

Lab File: VL041415.D

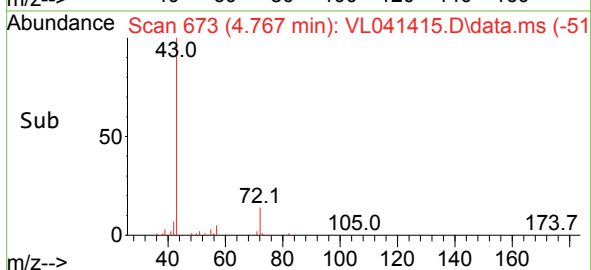
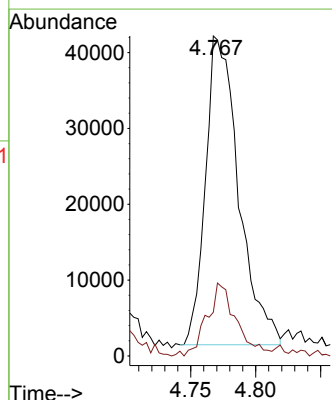
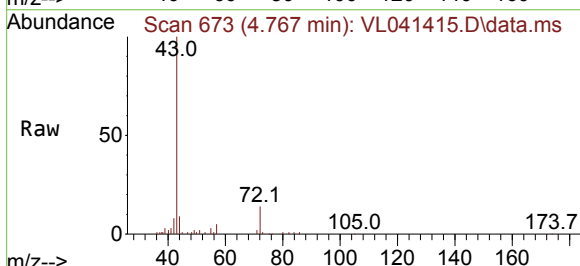
Acq: 26 Jul 2024 10:45

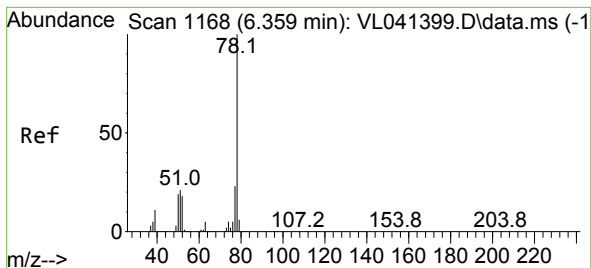
Tgt Ion: 43 Resp: 72326

Ion Ratio Lower Upper

43 100

72 22.8 17.3 25.9





#36

Benzene

Concen: 0.067 ppbv

RT: 6.356 min Scan# 1167

Delta R.T. -0.003 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Instrument :

MSVOA_L

ClientSampleId :

2

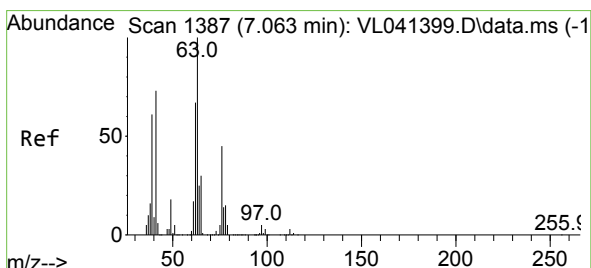
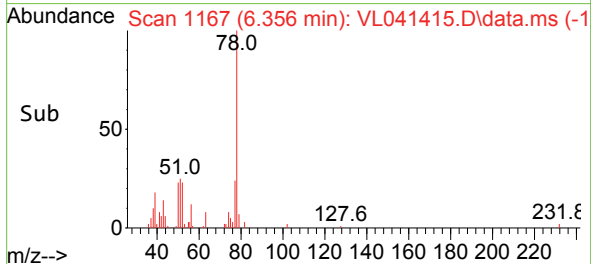
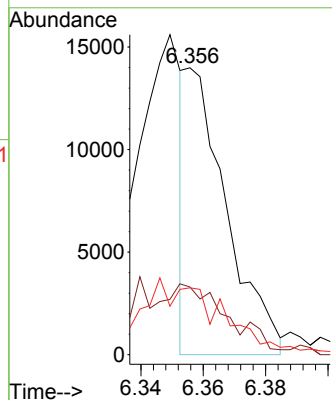
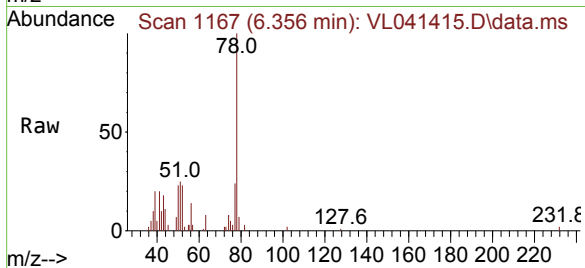
Tgt Ion: 78 Resp: 12631

Ion Ratio Lower Upper

78 100

77 23.2 18.1 27.1

50 22.0 15.5 23.3



#39

1,2-Dichloropropane

Concen: 8.692 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. -0.428 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

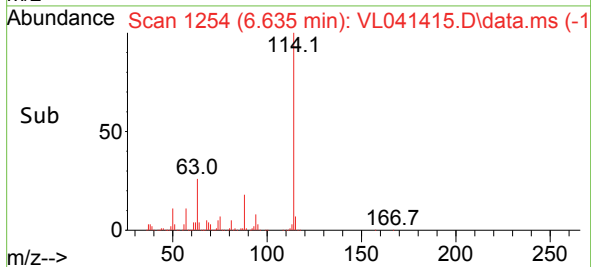
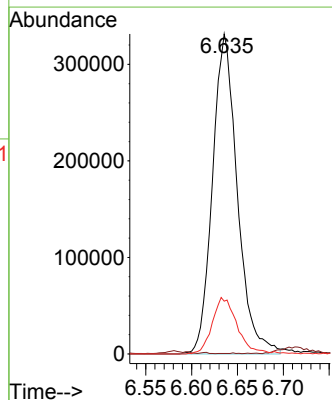
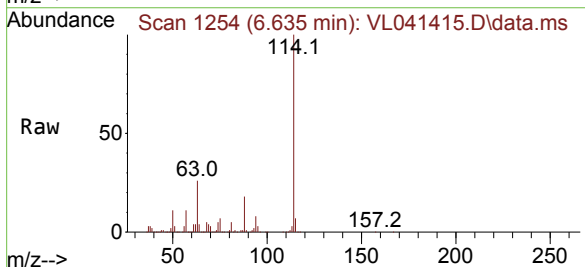
Tgt Ion: 63 Resp: 624649

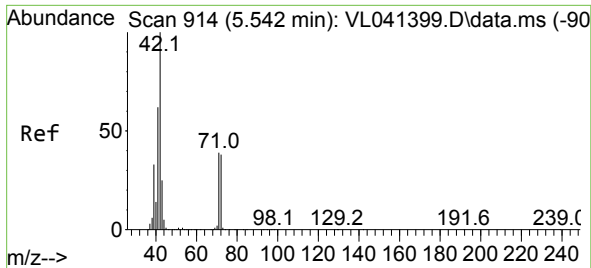
Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.5 53.9 80.9#

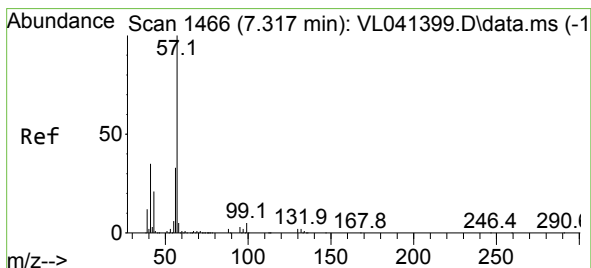
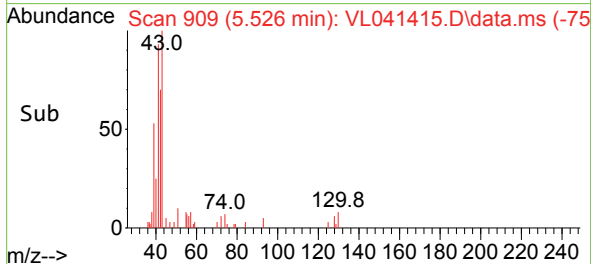
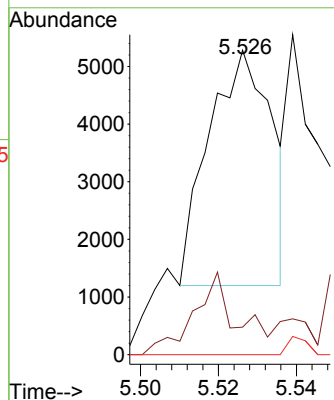
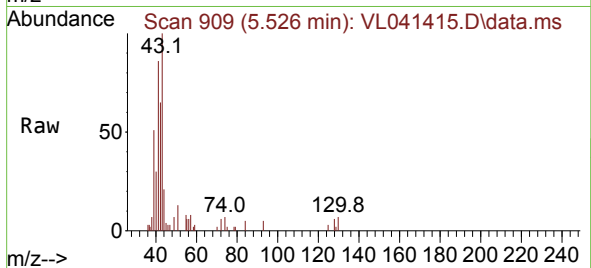




#41
Tetrahydrofuran
Concen: 0.064 ppbv
RT: 5.526 min Scan# 909
Delta R.T. -0.016 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

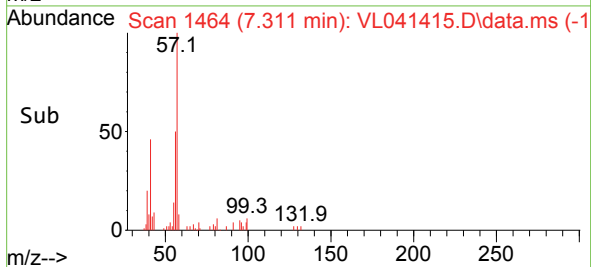
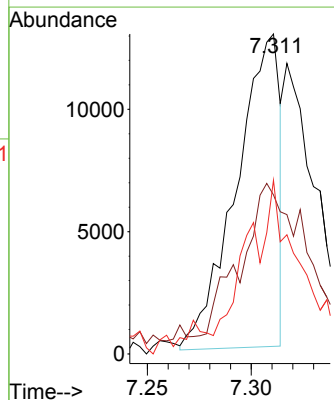
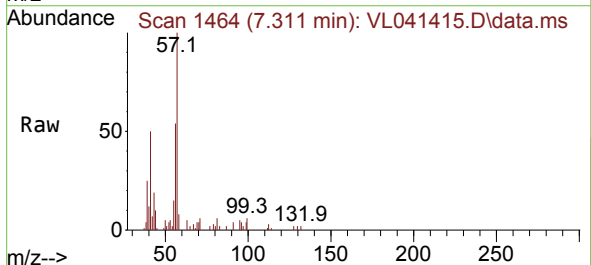
Instrument :
MSVOA_L
ClientSampleId :
2

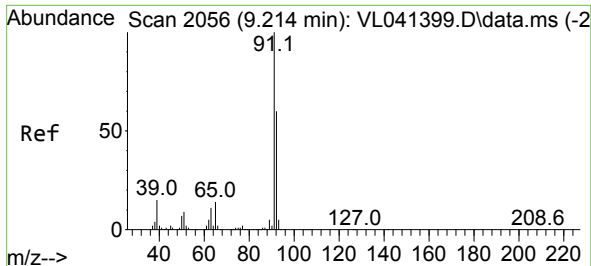
Tgt Ion:	42	Resp:	4575
Ion	Ratio	Lower	Upper
42	100		
72	32.3	31.2	46.8
71	0.0	30.5	45.7#



#44
2,2,4-Trimethylpentane
Concen: 0.059 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion:	57	Resp:	18630
Ion	Ratio	Lower	Upper
57	100		
41	98.4	27.0	40.6#
56	85.2	25.2	37.8#

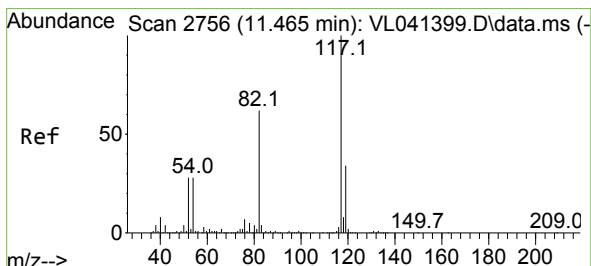
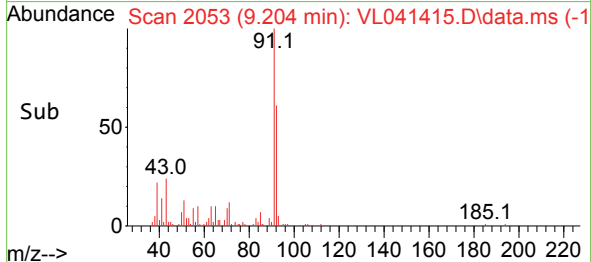
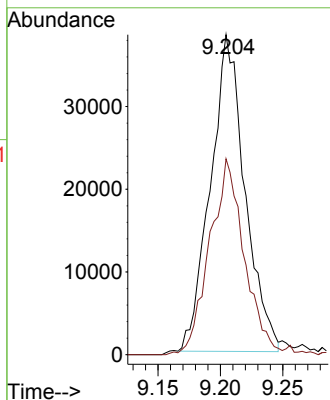
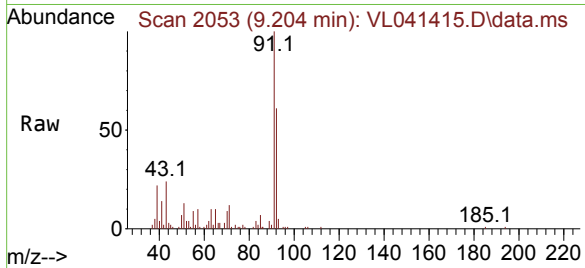




#53
Toluene
Concen: 0.353 ppbv
RT: 9.204 min Scan# 2056
Delta R.T. -0.010 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

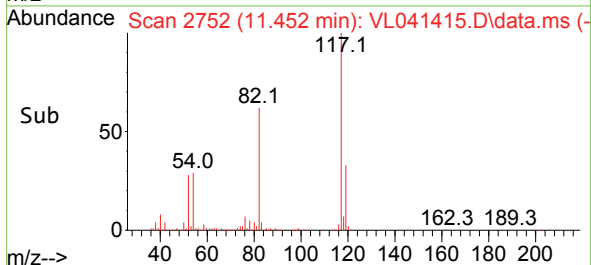
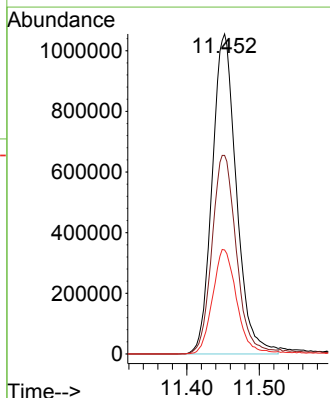
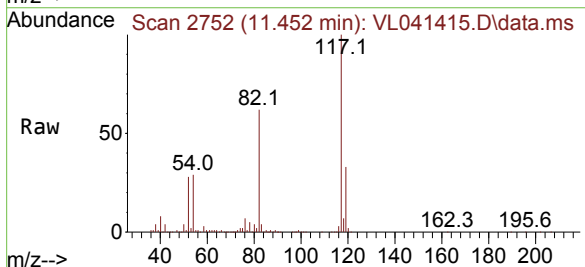
Instrument :
MSVOA_L
ClientSampleId :
2

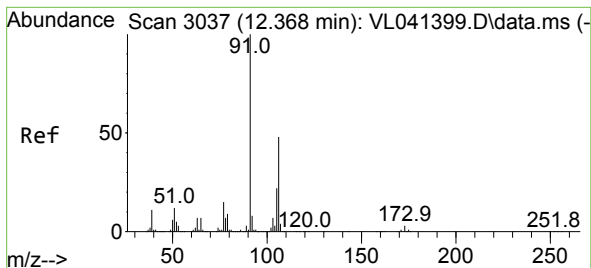
Tgt Ion: 91 Resp: 73723
Ion Ratio Lower Upper
91 100
92 62.9 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.013 min
Lab File: VL041415.D
Acq: 26 Jul 2024 10:45

Tgt Ion: 117 Resp: 2443059
Ion Ratio Lower Upper
117 100
82 64.7 51.0 76.6
119 33.5 45.2 67.8#





#59

m/p-Xylene

Concen: 0.035 ppbv

RT: 12.349 min Scan# 3037

Delta R.T. -0.019 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Instrument :

MSVOA_L

ClientSampleId :

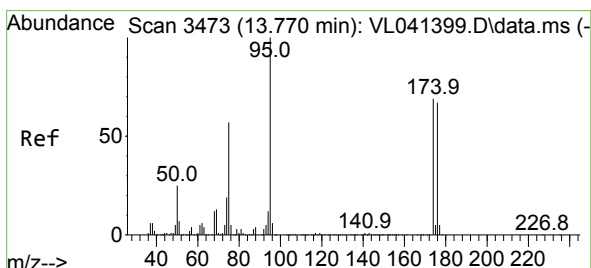
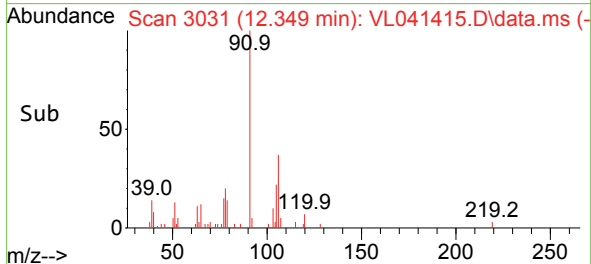
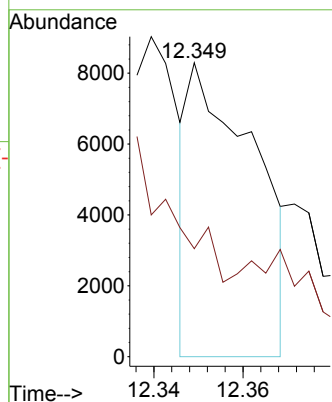
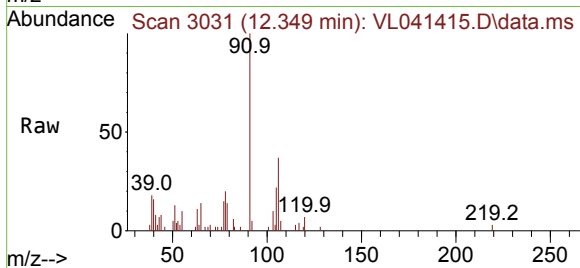
2

Tgt Ion: 91 Resp: 8482

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.684 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.010 min

Lab File: VL041415.D

Acq: 26 Jul 2024 10:45

Tgt Ion: 95 Resp: 1820709

Ion Ratio Lower Upper

95 100

174 71.5 56.3 84.5

175 5.3 4.0 6.0

