

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041414.D
 Acq On : 26 Jul 2024 10:04
 Operator : SY/MD
 Sample : P3356-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 29 01:46:45 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	1040304	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2797628	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2451286	10.000	ppbv	#-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1769805	9.382	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.800%

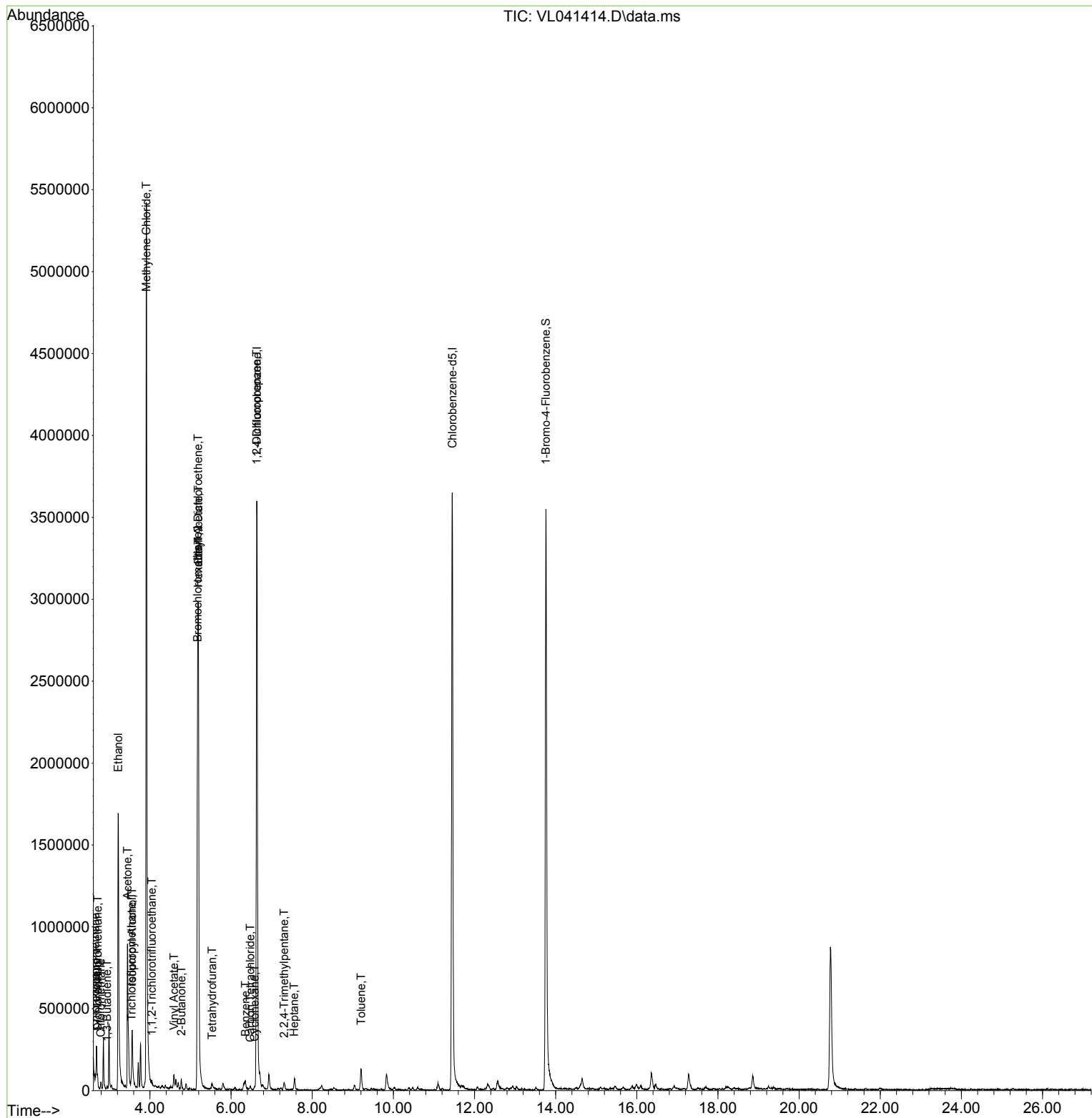
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.709	85	41693	0.233	ppbv	98
3) Chlorodifluoromethane	2.655	51	87091	0.703	ppbv #	92
4) Chloromethane	2.793	50	37444	0.568	ppbv	99
9) Propene	2.684	41	64809	1.139	ppbv	89
10) Heptane	7.555	43	24177	0.189	ppbv	92
11) Trichlorofluoromethane	3.545	101	33193	0.209	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.047	101	5782	0.051	ppbv #	62
13) Ethanol	3.221	45	1741999	342.591	ppbv	96
15) Acetone	3.449	43	910849	7.706	ppbv	100
16) 1,3-Butadiene	2.944	39	3593	0.057	ppbv #	10
19) Isopropyl Alcohol	3.562	45	361277	5.228	ppbv #	99
20) Methylene Chloride	3.912	84	1843080	41.815	ppbv	99
23) Vinyl Acetate	4.594	43	32515	0.360	ppbv #	3
25) Ethyl Acetate	5.192	43	693587	2.954	ppbv #	78
26) Hexane	5.195	57	908175	9.323	ppbv #	40
30) Cyclohexane	6.581	84	2961	0.037	ppbv #	1
31) cis-1,2-Dichloroethene	5.185	61	7070	0.073	ppbv #	33
34) 2-Butanone	4.777	43	19576	0.145	ppbv #	1
35) Carbon Tetrachloride	6.475	117	10008	0.065	ppbv #	83
36) Benzene	6.352	78	26680	0.131	ppbv #	86
39) 1,2-Dichloropropane	6.632	63	687568	8.785	ppbv #	25
41) Tetrahydrofuran	5.533	42	7253	0.094	ppbv #	60
44) 2,2,4-Trimethylpentane	7.307	57	22549	0.066	ppbv #	35
53) Toluene	9.208	91	68528	0.301	ppbv	98

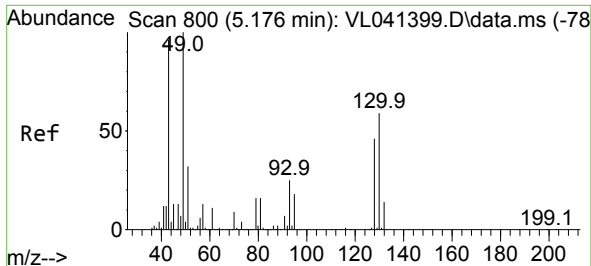
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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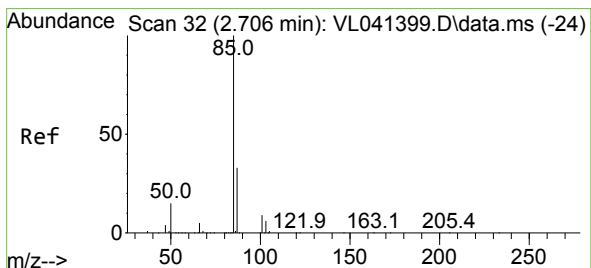
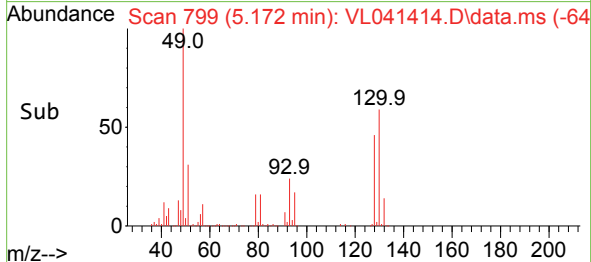
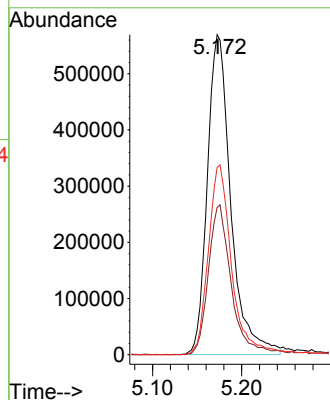
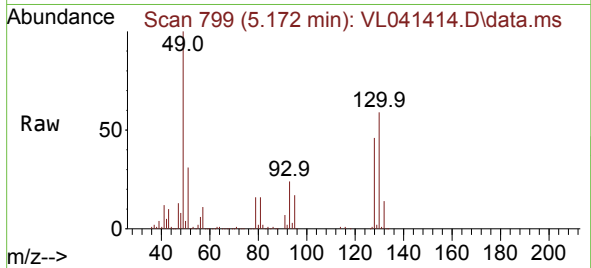




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 79
Delta R.T. -0.004 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

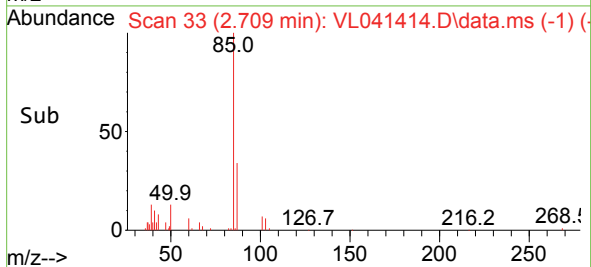
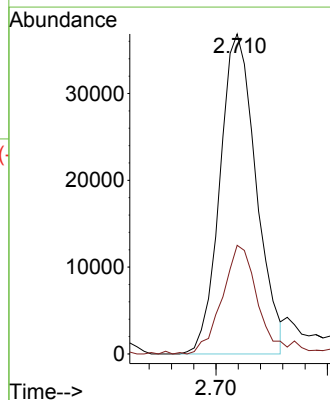
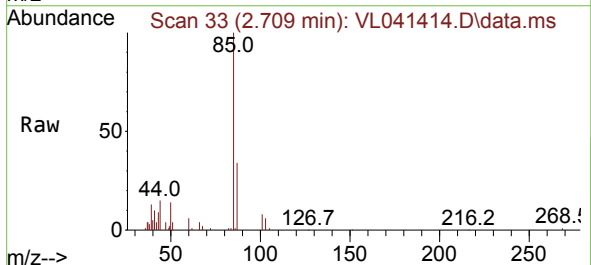
Instrument :
MSVOA_L
ClientSampleId :

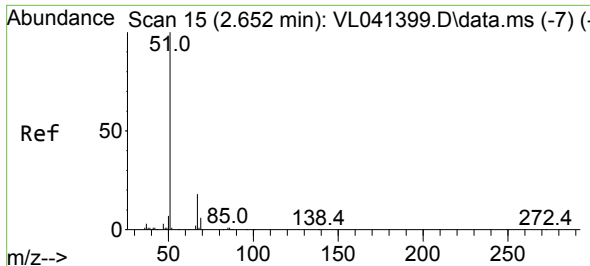
Tgt Ion: 49 Resp: 1040304
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.4
130 60.8 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.233 ppbv
RT: 2.709 min Scan# 33
Delta R.T. 0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 85 Resp: 41693
Ion Ratio Lower Upper
85 100
87 33.5 26.0 39.0

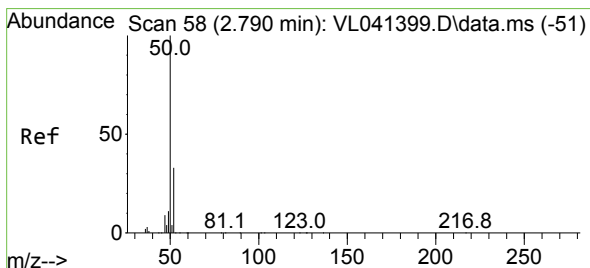
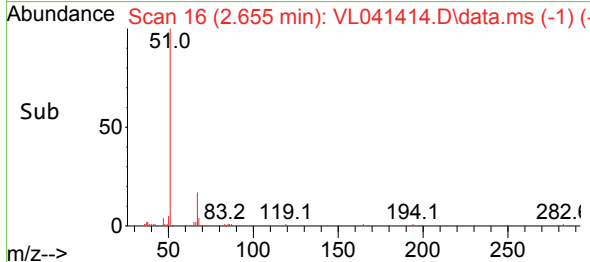
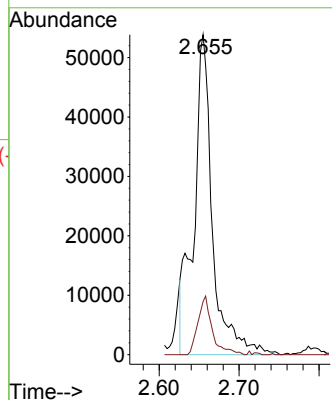
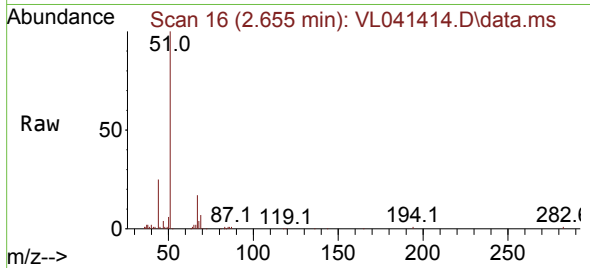




#3
Chlorodifluoromethane
Concen: 0.703 ppbv
RT: 2.655 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

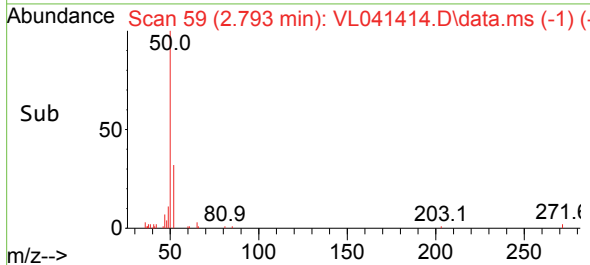
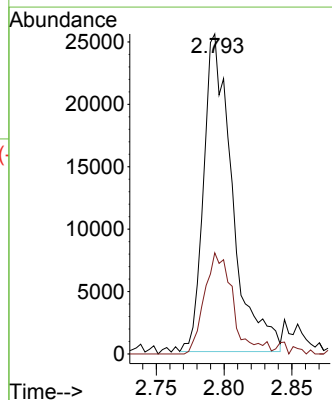
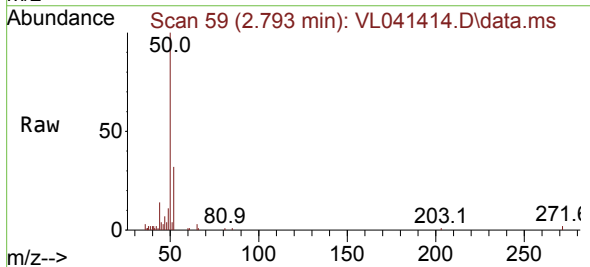
Instrument :
MSVOA_L
ClientSampleId :

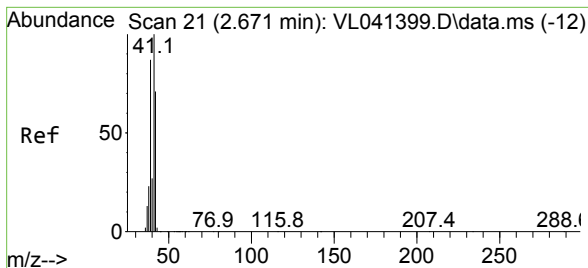
Tgt Ion: 51 Resp: 87091
Ion Ratio Lower Upper
51 100
67 14.5 14.5 21.7#



#4
Chloromethane
Concen: 0.568 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 50 Resp: 37444
Ion Ratio Lower Upper
50 100
52 31.8 26.1 39.1





#9

Propene

Concen: 1.139 ppbv

RT: 2.684 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

Instrument :

MSVOA_L

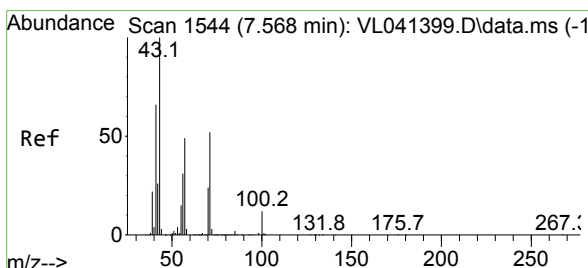
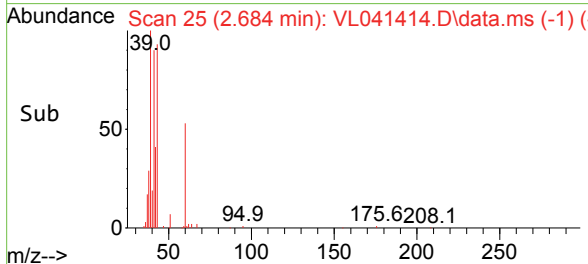
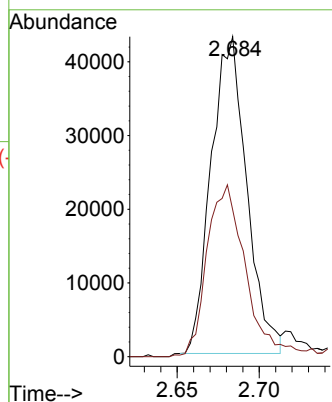
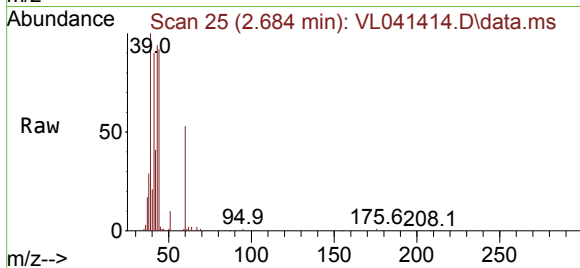
ClientSampleId :

Tgt Ion: 41 Resp: 64809

Ion Ratio Lower Upper

41 100

42 60.6 55.9 83.9



#10

Heptane

Concen: 0.189 ppbv

RT: 7.555 min Scan# 1540

Delta R.T. -0.013 min

Lab File: VL041414.D

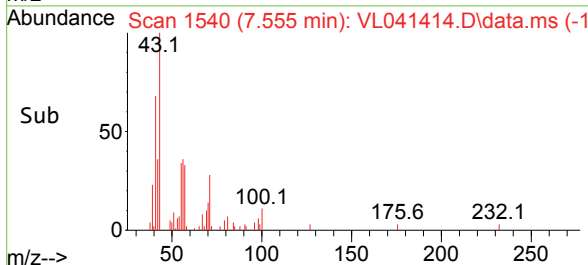
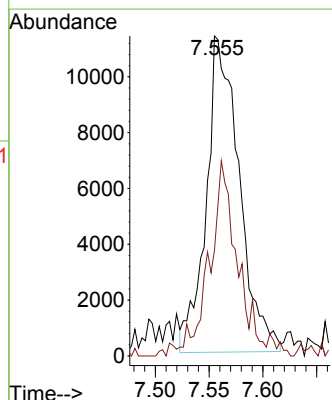
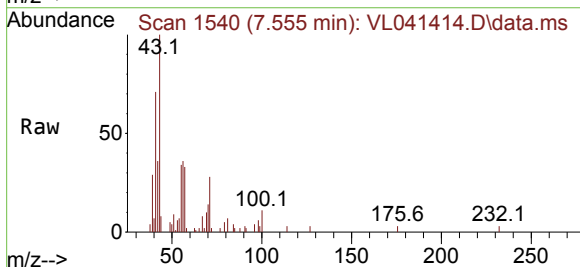
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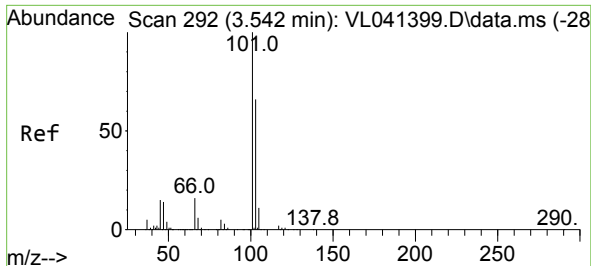
Tgt Ion: 43 Resp: 24177

Ion Ratio Lower Upper

43 100

57 56.5 40.5 60.7

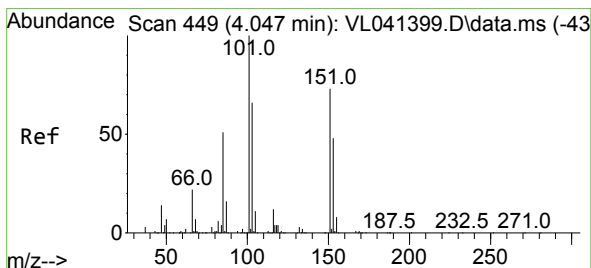
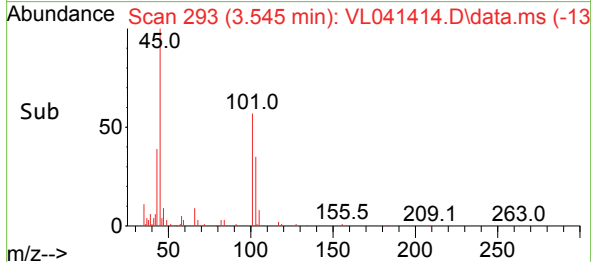
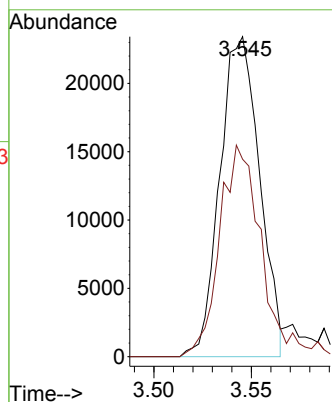
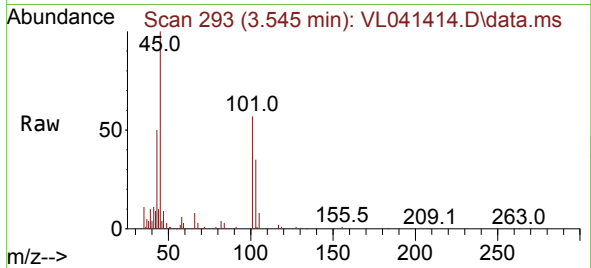




#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 3.545 min Scan# 292
 Delta R.T. 0.003 min
 Lab File: VL041414.D
 Acq: 26 Jul 2024 10:04

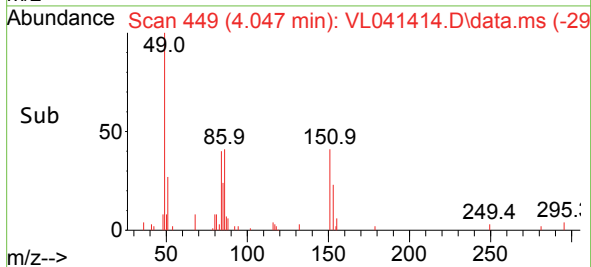
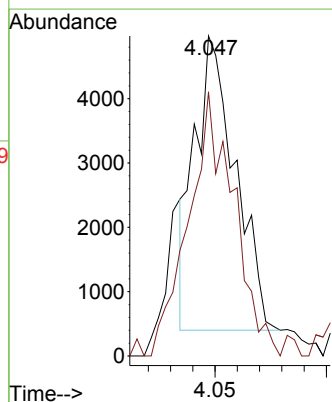
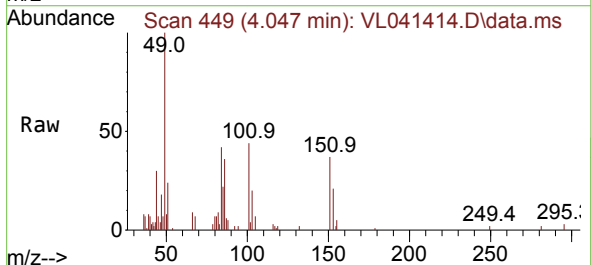
Instrument :
 MSVOA_L
 ClientSampleId :

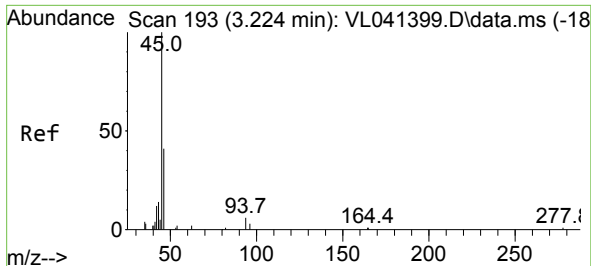
Tgt Ion:101 Resp: 33193
 Ion Ratio Lower Upper
 101 100
 103 61.7 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.051 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. -0.000 min
 Lab File: VL041414.D
 Acq: 26 Jul 2024 10:04

Tgt Ion:101 Resp: 5782
 Ion Ratio Lower Upper
 101 100
 151 106.6 59.4 89.2#

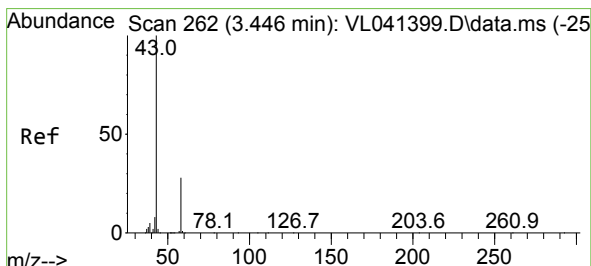
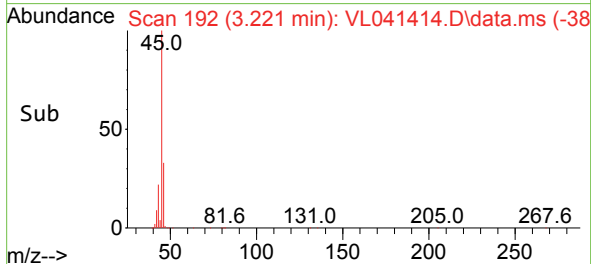
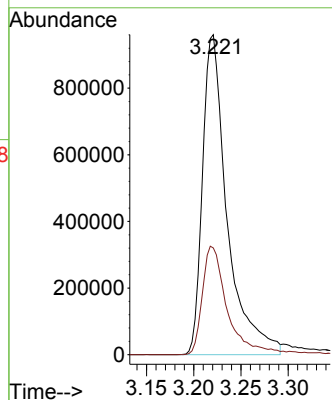
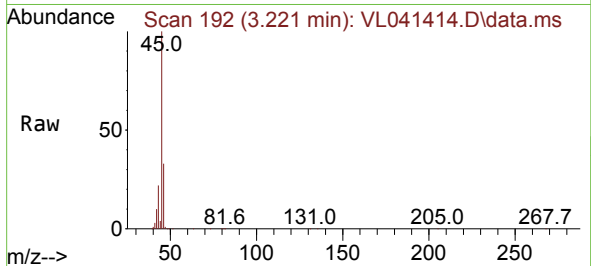




#13
Ethanol
Concen: 342.591 ppbv
RT: 3.221 min Scan# 19
Delta R.T. -0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

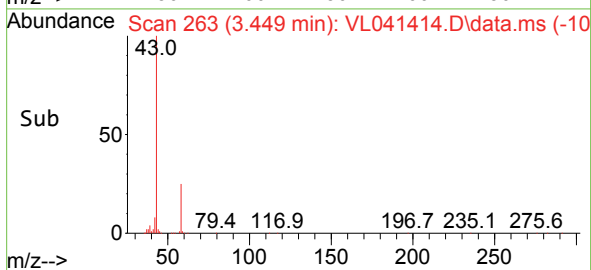
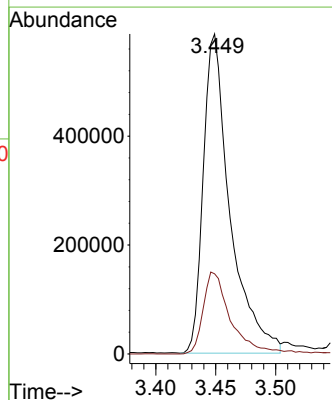
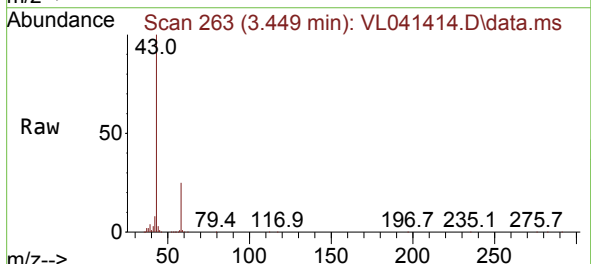
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ClientSampleId :

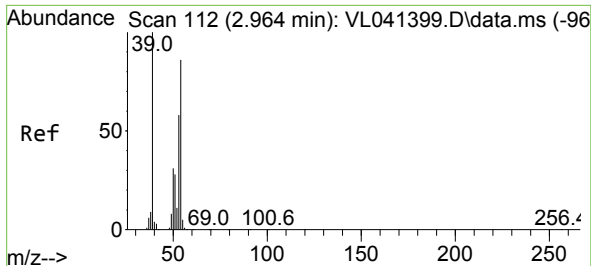
Tgt Ion: 45 Resp: 1741999
Ion Ratio Lower Upper
45 100
46 35.8 13.4 53.4



#15
Acetone
Concen: 7.706 ppbv
RT: 3.449 min Scan# 263
Delta R.T. 0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 43 Resp: 910849
Ion Ratio Lower Upper
43 100
58 26.9 21.4 32.2

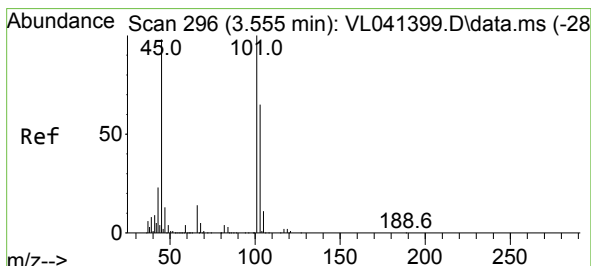
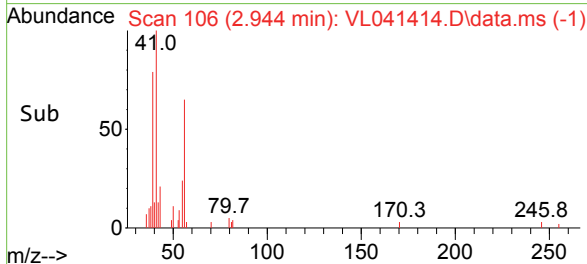
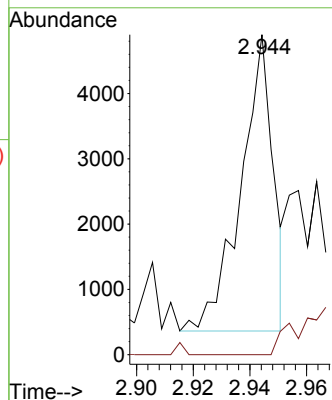
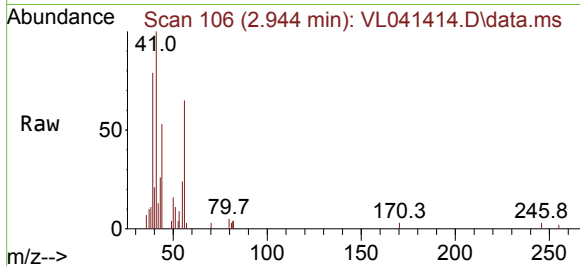




#16
1,3-Butadiene
Concen: 0.057 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

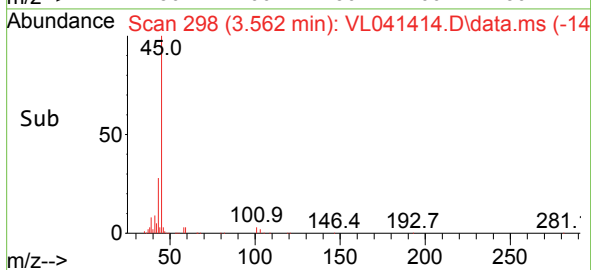
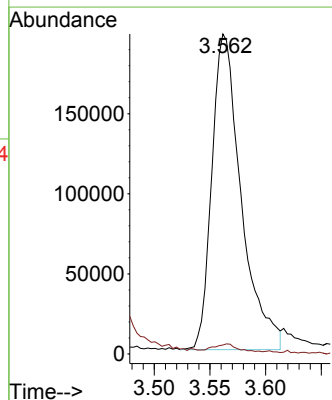
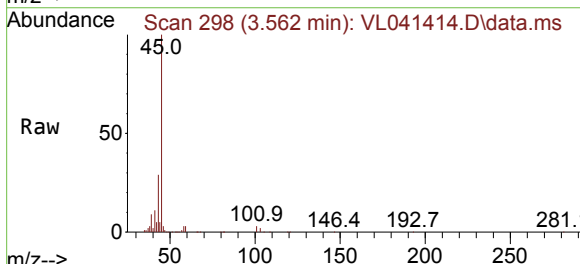
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MSVOA_L
ClientSampleId :

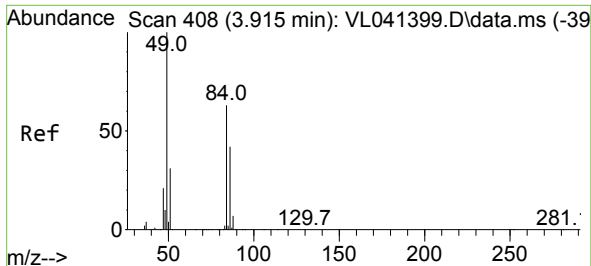
Tgt Ion: 39 Resp: 3593
Ion Ratio Lower Upper
39 100
54 0.0 62.5 93.7#



#19
Isopropyl Alcohol
Concen: 5.228 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.006 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

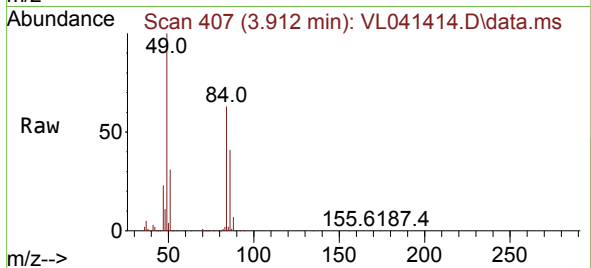
Tgt Ion: 45 Resp: 361277
Ion Ratio Lower Upper
45 100
58 2.9 1.9 2.9#





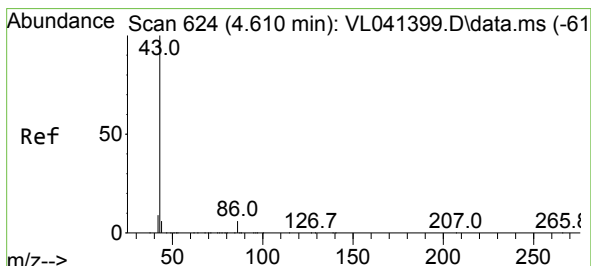
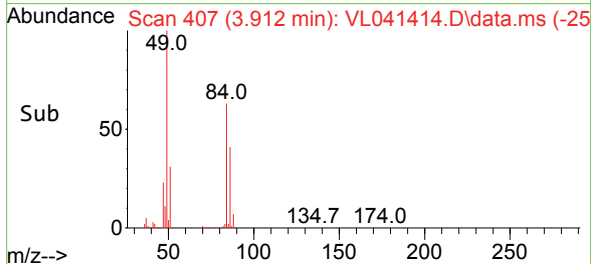
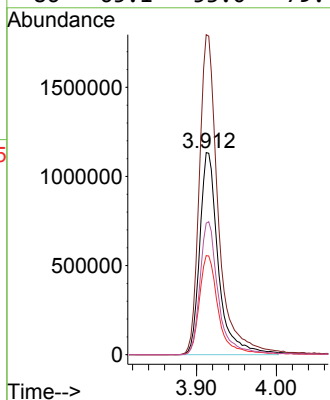
#20
Methylene Chloride
Concen: 41.815 ppbv
RT: 3.912 min Scan# 408
Delta R.T. -0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 1843080

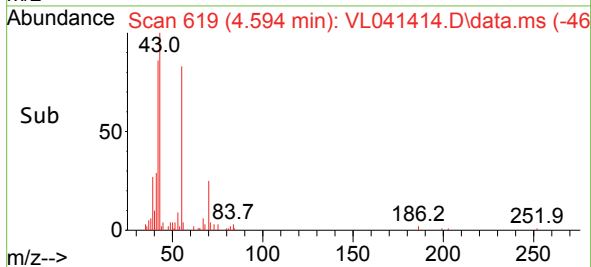
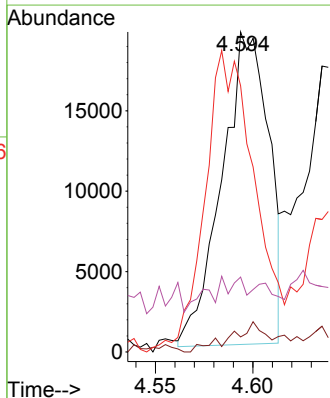
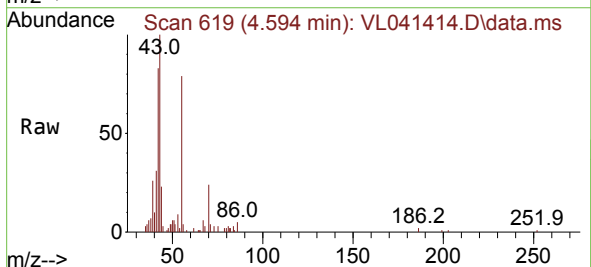
Ion	Ratio	Lower	Upper
84	100		
49	158.4	126.6	190.0
51	49.0	38.6	58.0
86	65.1	53.0	79.4

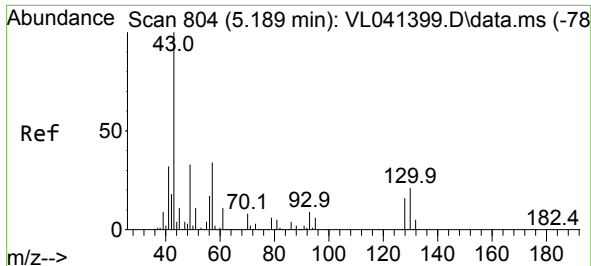


#23
Vinyl Acetate
Concen: 0.360 ppbv
RT: 4.594 min Scan# 619
Delta R.T. -0.016 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 43 Resp: 32515

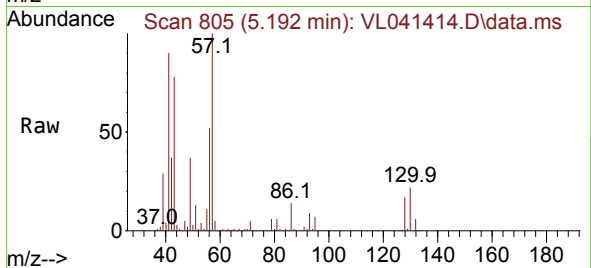
Ion	Ratio	Lower	Upper
43	100		
86	3.9	4.6	6.8#
42	81.4	7.9	11.9#
44	9.8	4.2	6.4#



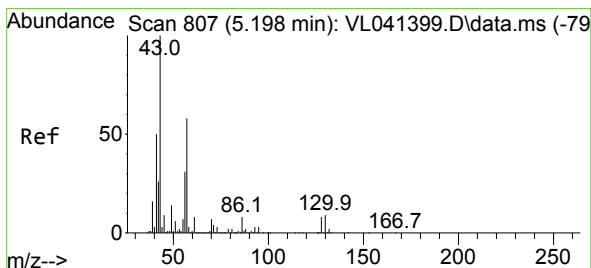
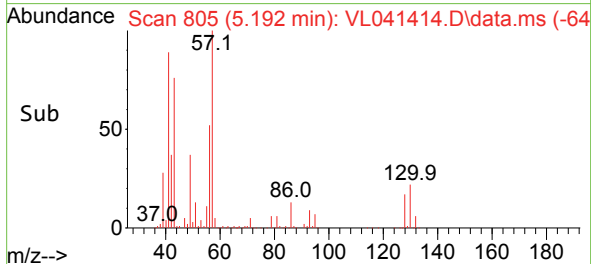
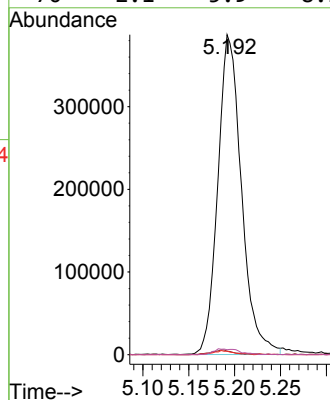


#25
Ethyl Acetate
Concen: 2.954 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Instrument :
MSVOA_L
ClientSampleId :

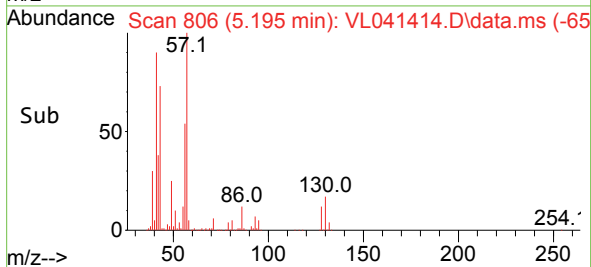
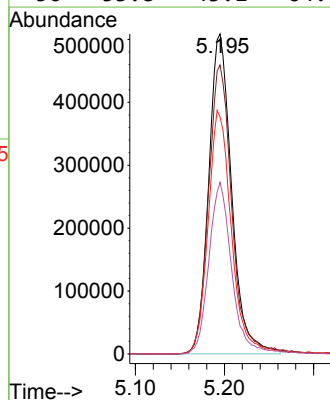
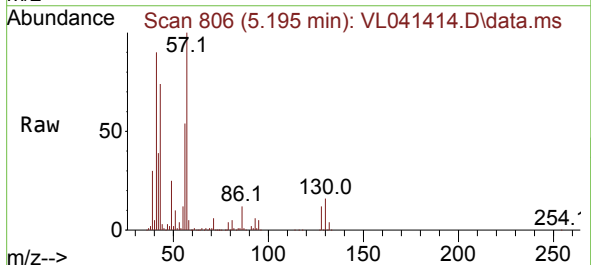


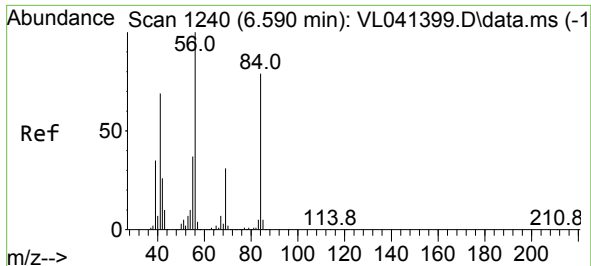
Tgt Ion: 43 Resp: 693587
Ion Ratio Lower Upper
43 100
45 1.5 8.5 12.7#
61 1.2 8.0 12.0#
70 2.1 5.9 8.9#



#26
Hexane
Concen: 9.323 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 57 Resp: 908175
Ion Ratio Lower Upper
57 100
41 93.4 74.0 111.0
43 78.2 193.6 290.4#
56 53.8 43.1 64.7

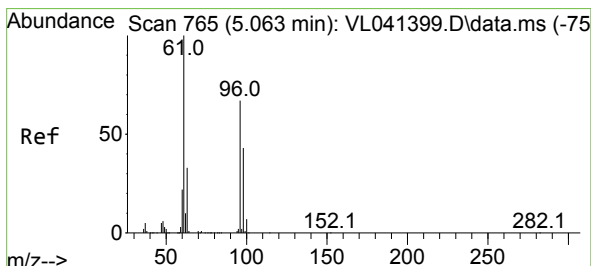
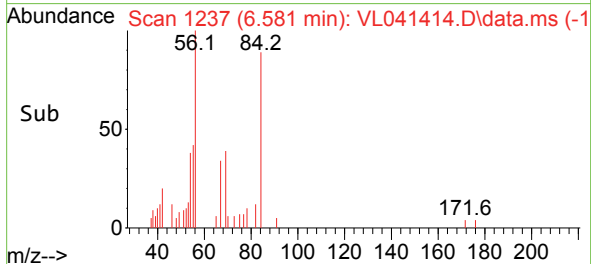
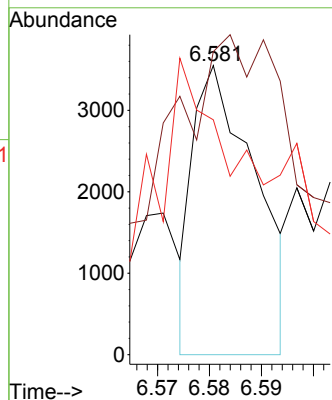
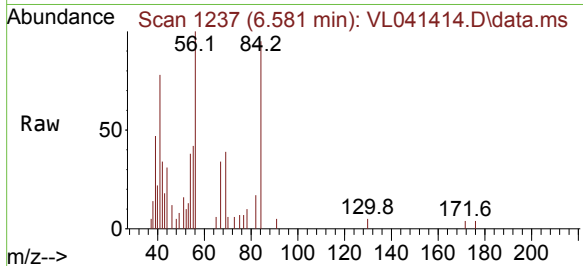




#30
Cyclohexane
Concen: 0.037 ppbv
RT: 6.581 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

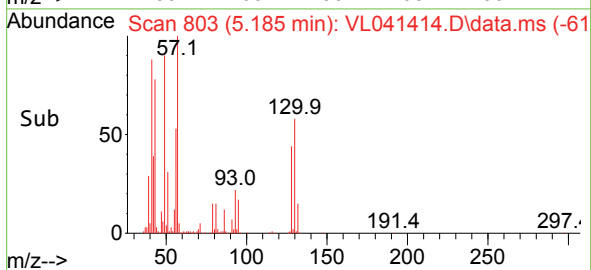
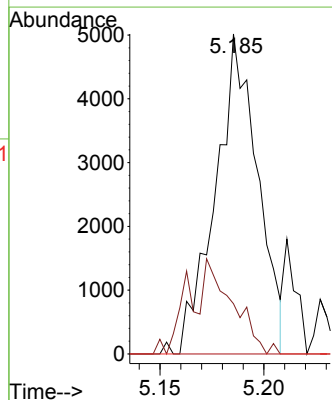
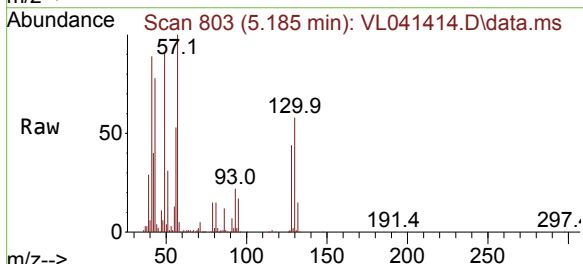
Instrument :
MSVOA_L
ClientSampleId :

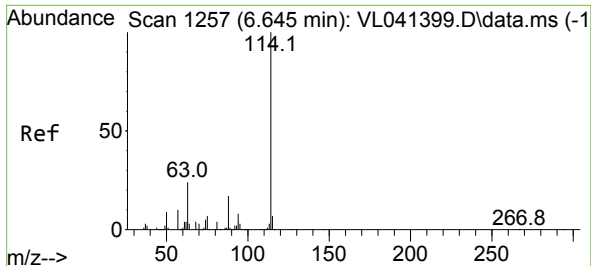
Tgt Ion: 84 Resp: 2961
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 0.0 70.3 105.5#



#31
cis-1,2-Dichloroethene
Concen: 0.073 ppbv
RT: 5.185 min Scan# 803
Delta R.T. 0.122 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 61 Resp: 7070
Ion Ratio Lower Upper
61 100
96 13.5 53.4 80.2#
98 0.0 34.4 51.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

Instrument :

MSVOA_L

ClientSampleId :

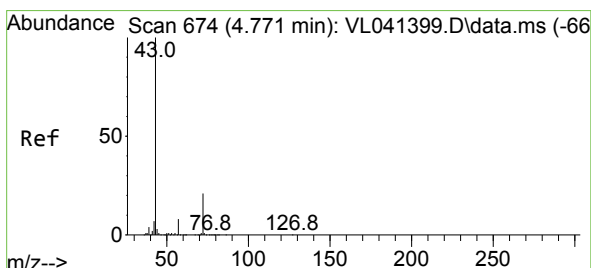
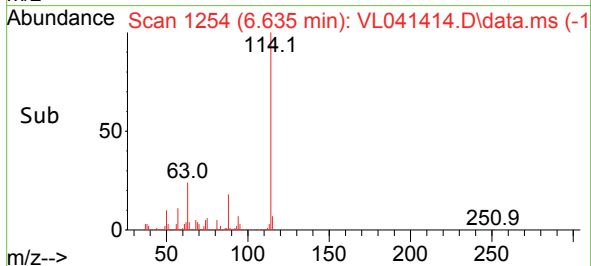
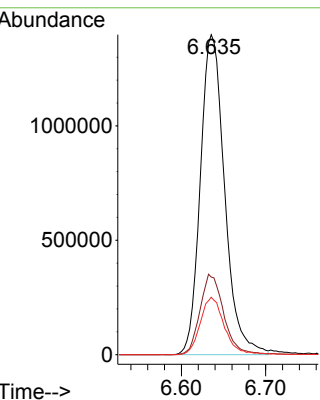
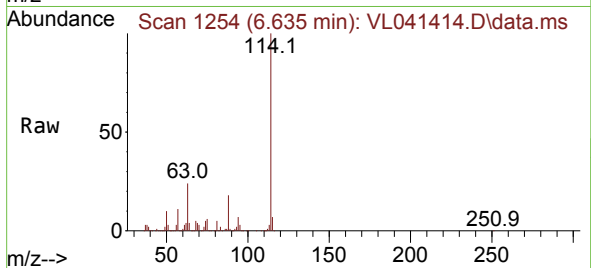
Tgt Ion:114 Resp: 2797628

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 0.145 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.006 min

Lab File: VL041414.D

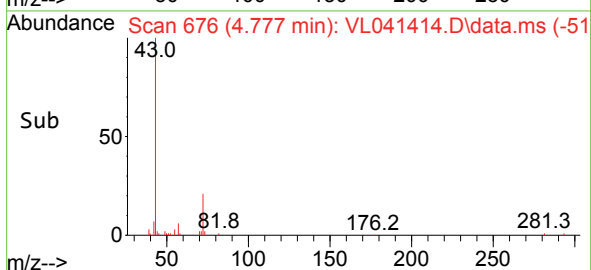
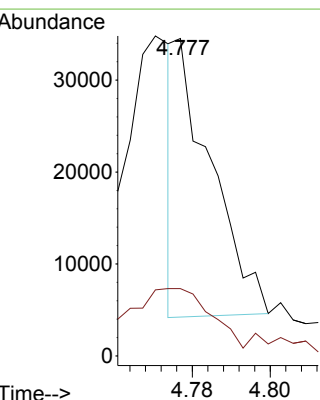
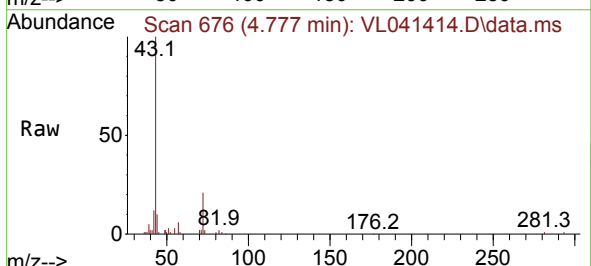
Acq: 26 Jul 2024 10:04

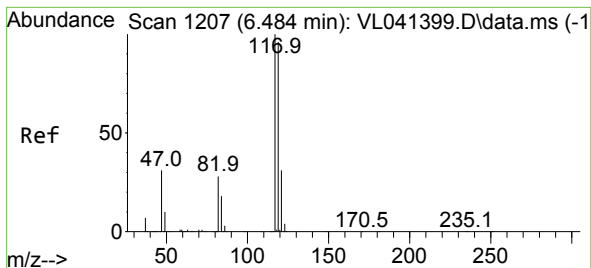
Tgt Ion: 43 Resp: 19576

Ion Ratio Lower Upper

43 100

72 77.2 17.3 25.9#





#35

Carbon Tetrachloride

Concen: 0.065 ppbv

RT: 6.475 min Scan# 1166

Delta R.T. -0.010 min

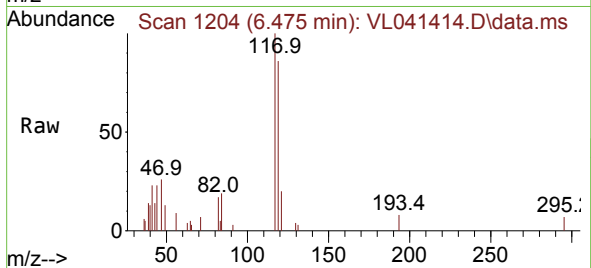
Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

Instrument :

MSVOA_L

ClientSampleId :



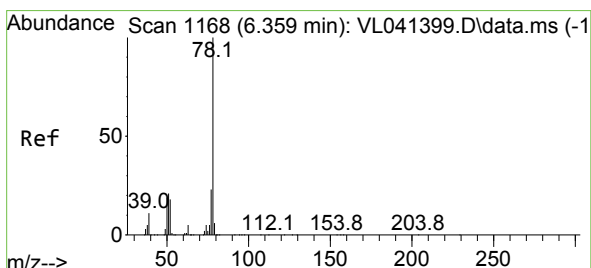
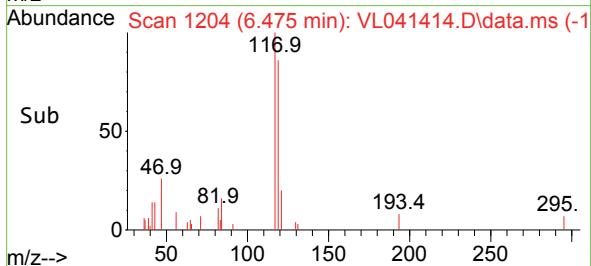
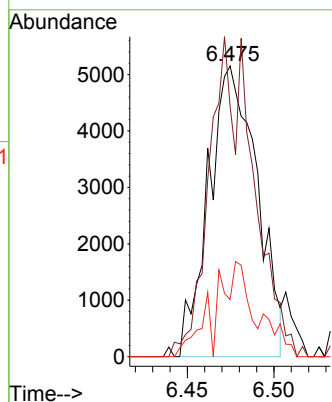
Tgt Ion:117 Resp: 10008

Ion Ratio Lower Upper

117 100

119 81.7 76.6 115.0

121 16.6 25.1 37.7#



#36

Benzene

Concen: 0.131 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. -0.006 min

Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

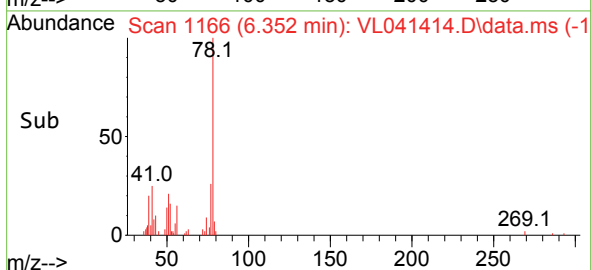
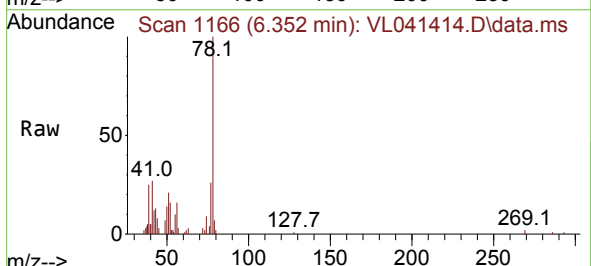
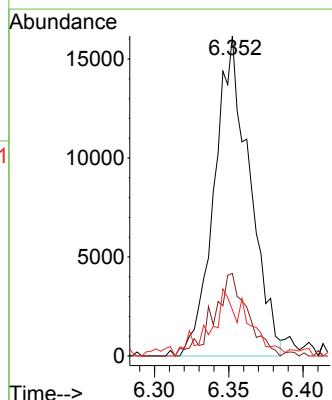
Tgt Ion: 78 Resp: 26680

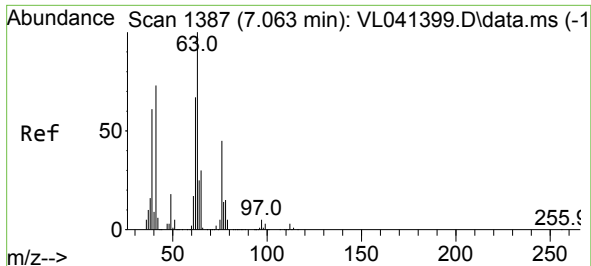
Ion Ratio Lower Upper

78 100

77 25.8 18.1 27.1

50 8.8 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 8.785 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.431 min

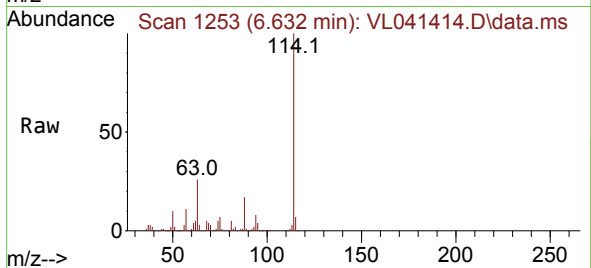
Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

Instrument :

MSVOA_L

ClientSampleId :



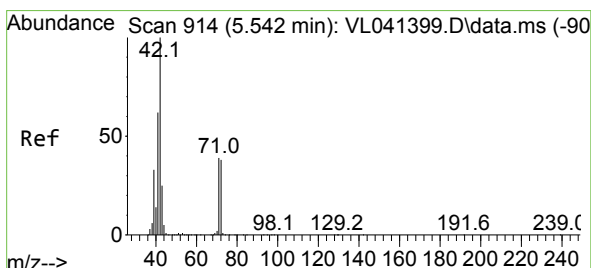
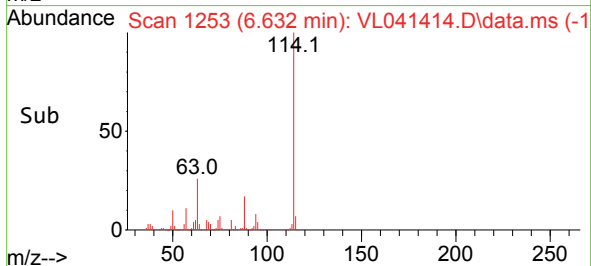
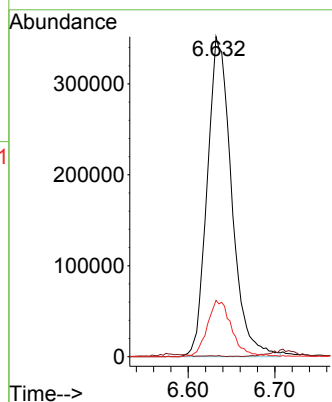
Tgt Ion: 63 Resp: 687568

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.6 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.094 ppbv

RT: 5.533 min Scan# 911

Delta R.T. -0.010 min

Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

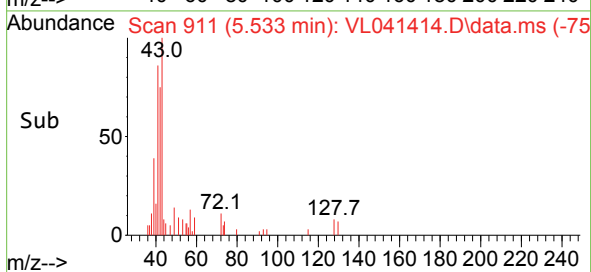
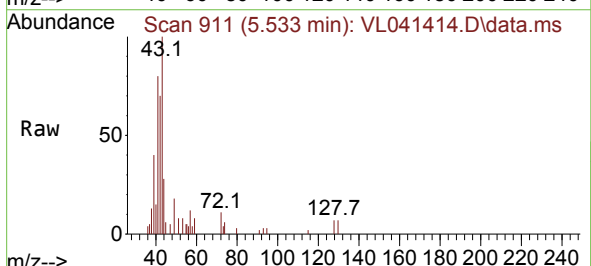
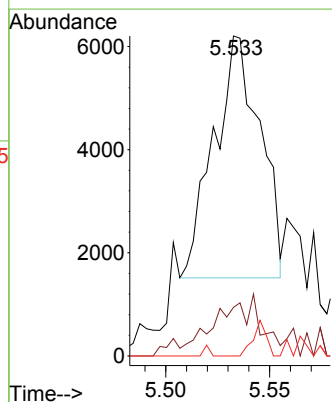
Tgt Ion: 42 Resp: 7253

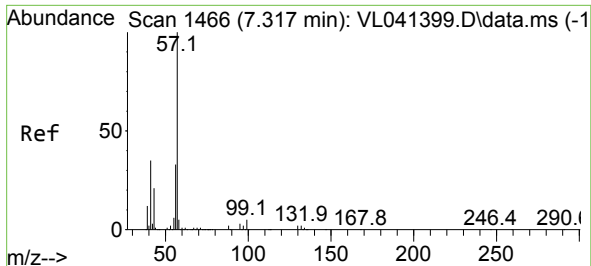
Ion Ratio Lower Upper

42 100

72 28.5 31.2 46.8#

71 0.0 30.5 45.7#





#44

2,2,4-Trimethylpentane

Concen: 0.066 ppbv

RT: 7.307 min Scan# 1466

Delta R.T. -0.010 min

Lab File: VL041414.D

Acq: 26 Jul 2024 10:04

Instrument :

MSVOA_L

ClientSampleId :

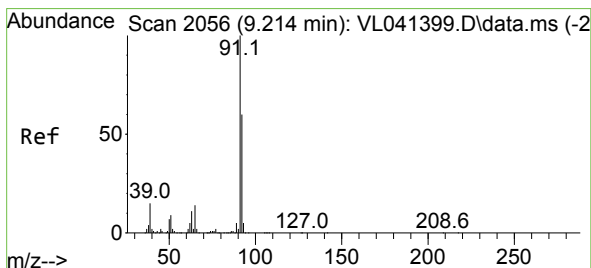
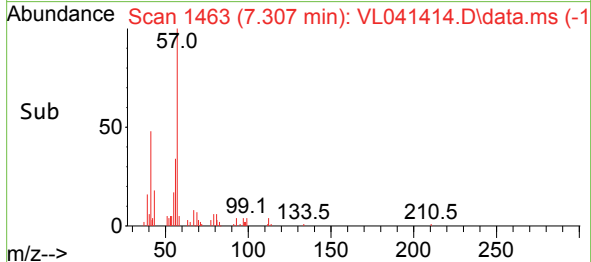
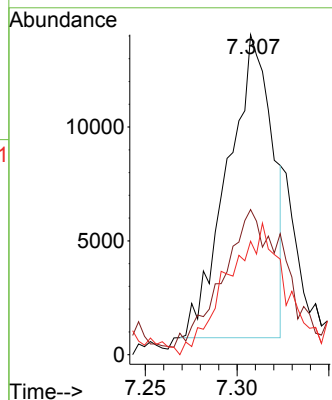
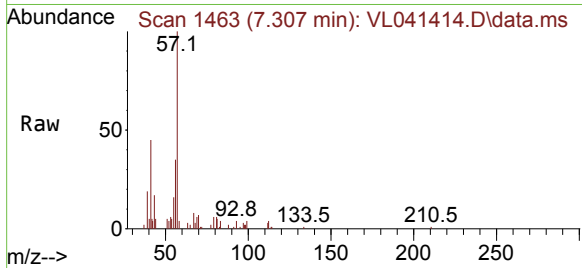
Tgt Ion: 57 Resp: 22549

Ion Ratio Lower Upper

57 100

41 78.7 27.0 40.6#

56 58.8 25.2 37.8#



#53

Toluene

Concen: 0.301 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. -0.006 min

Lab File: VL041414.D

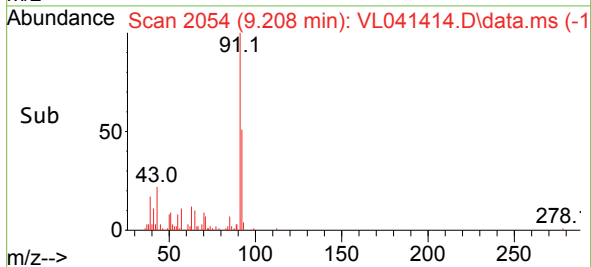
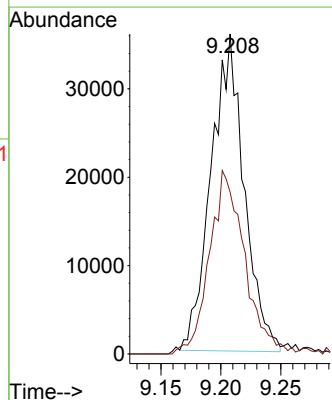
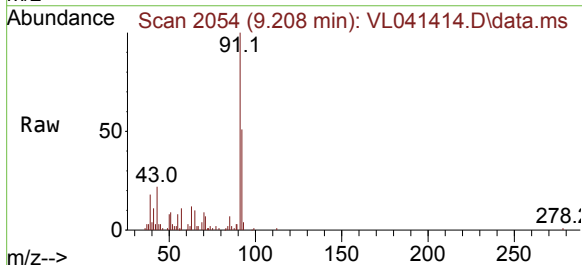
Acq: 26 Jul 2024 10:04

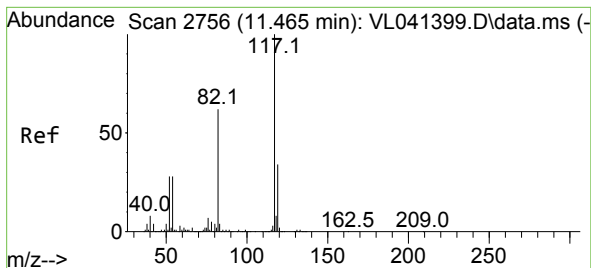
Tgt Ion: 91 Resp: 68528

Ion Ratio Lower Upper

91 100

92 62.5 48.7 73.1

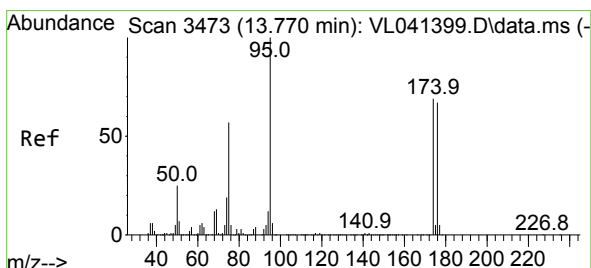
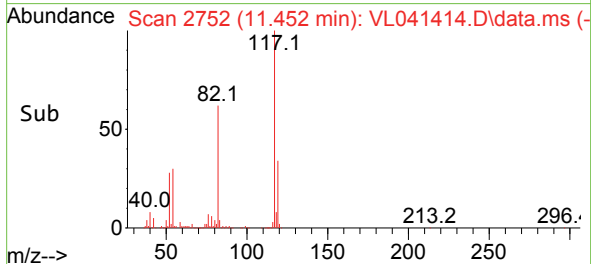
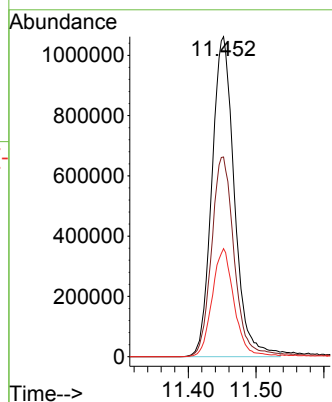
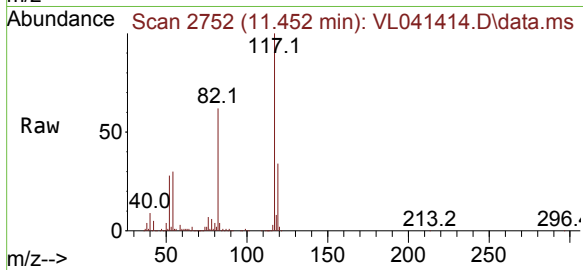




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2451286
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 33.6 45.2 67.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.382 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. -0.010 min
Lab File: VL041414.D
Acq: 26 Jul 2024 10:04

Tgt Ion: 95 Resp: 1769805
Ion Ratio Lower Upper
95 100
174 72.3 56.3 84.5
175 5.0 4.0 6.0

