

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039908.D
 Acq On : 21 Nov 2022 13:34
 Operator : SY/AP
 Sample : N5724-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Nov 22 03:47:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

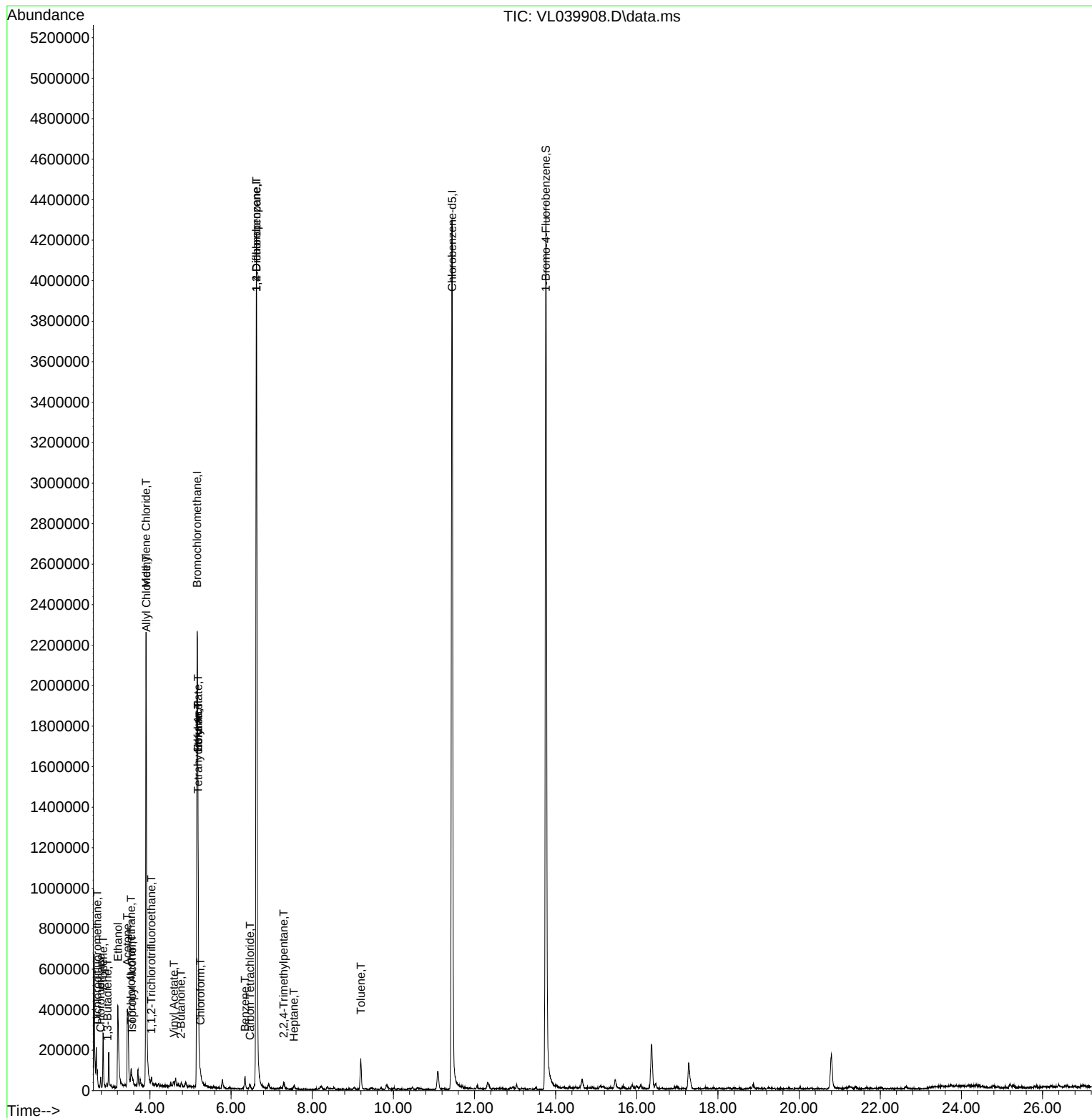
Internal Standards							
1) Bromochloromethane		5.163	49	1075586	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.626	114	3259466	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.446	117	2877199	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.761	95	2248395	10.231	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 102.300%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		2.700	85	44754	0.291	ppbv	91
4) Chloromethane		2.787	50	34867	0.368	ppbv	100
9) Propene		2.848	41	61857	0.885	ppbv	93
10) Heptane		7.549	43	5350	0.032	ppbv #	49
11) Trichlorofluoromethane		3.536	101	45190	0.241	ppbv	91
12) 1,1,2-Trichlorotrifluo...		4.034	101	6897	0.048	ppbv #	58
13) Ethanol		3.211	45	486041	91.056	ppbv	99
15) Acetone		3.443	43	451677	3.166	ppbv	92
16) 1,3-Butadiene		2.954	39	2325	0.033	ppbv #	66
19) Isopropyl Alcohol		3.562	45	39156	0.507	ppbv #	43
20) Methylene Chloride		3.906	84	760788	11.007	ppbv	97
21) Allyl Chloride		3.909	41	25824	0.261	ppbv #	23
23) Vinyl Acetate		4.591	43	4715	0.080	ppbv #	63
25) Ethyl Acetate		5.185	43	256515	0.979	ppbv #	78
26) Hexane		5.185	57	355684	3.108	ppbv #	40
29) Chloroform		5.243	83	11005	0.072	ppbv #	78
34) 2-Butanone		4.764	43	9540	0.061	ppbv #	1
35) Carbon Tetrachloride		6.465	117	11961	0.065	ppbv #	90
36) Benzene		6.346	78	44571	0.161	ppbv	92
39) 1,2-Dichloropropane		6.626	63	802899	7.438	ppbv #	26
41) Tetrahydrofuran		5.189	42	133996	1.244	ppbv #	49
44) 2,2,4-Trimethylpentane		7.298	57	26734	0.058	ppbv #	77
53) Toluene		9.198	91	108356	0.343	ppbv	95

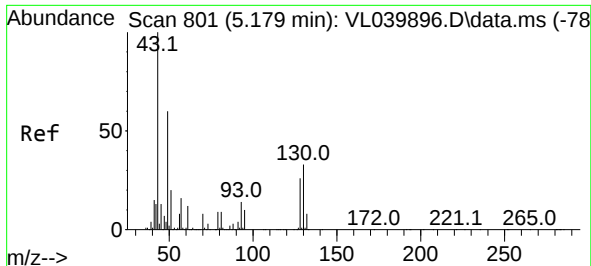
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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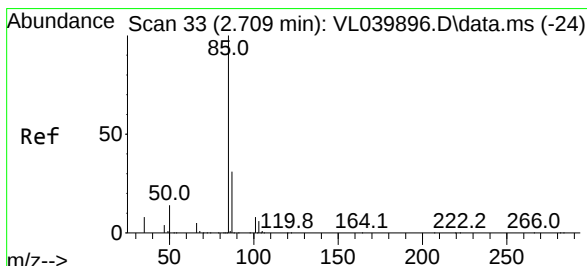
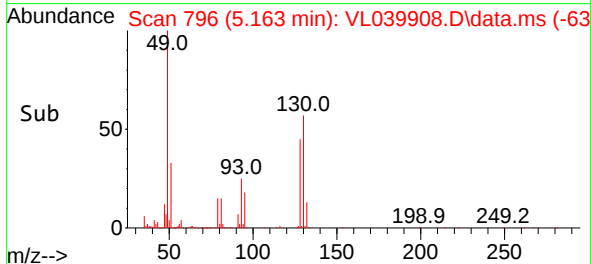
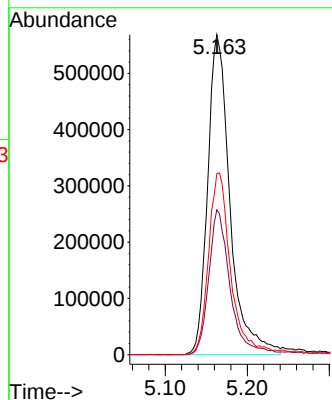
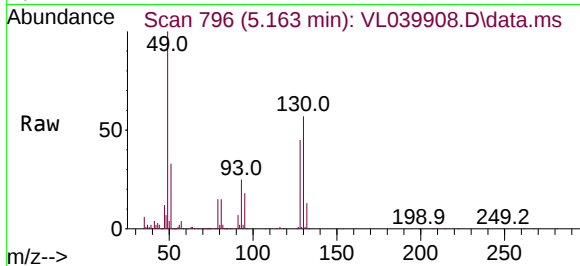




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.163 min Scan# 79
Delta R.T. 0.007 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

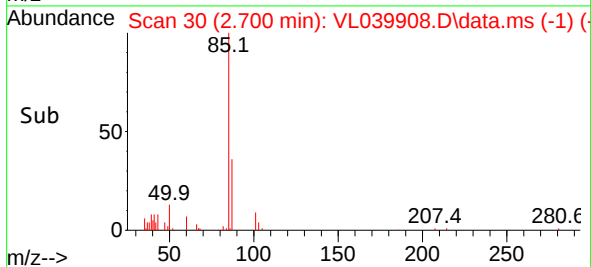
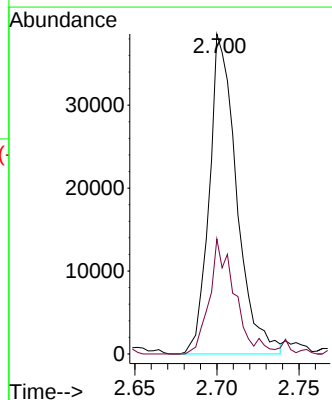
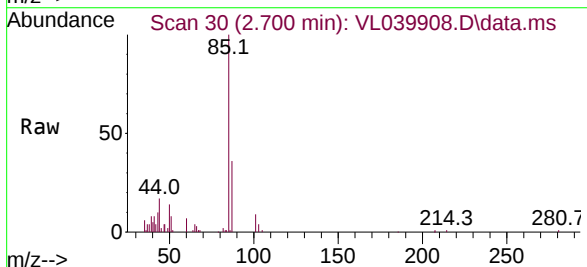
Instrument :
MSVOA_L
ClientSampleId :
IA1

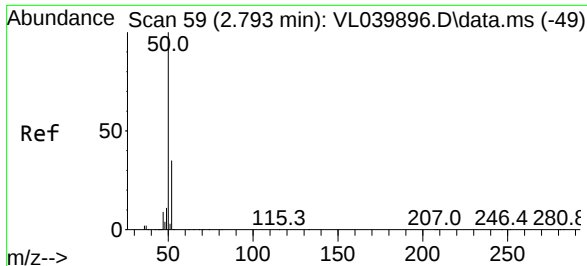
Tgt Ion: 49 Resp: 1075586
Ion Ratio Lower Upper
49 100
128 44.6 22.1 66.3
130 57.4 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.291 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 85 Resp: 44754
Ion Ratio Lower Upper
85 100
87 35.9 25.0 37.4

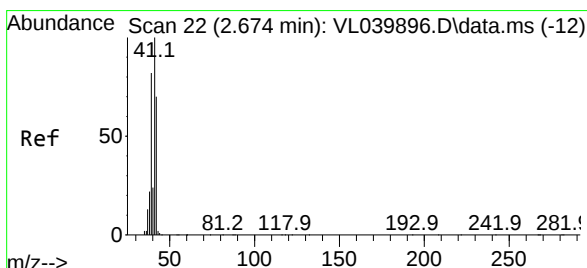
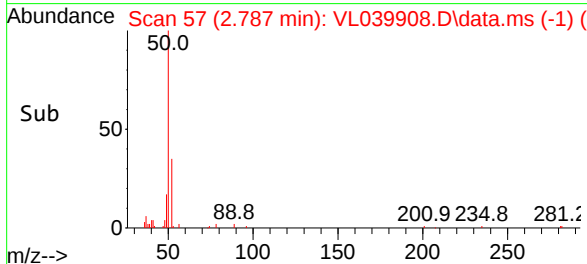
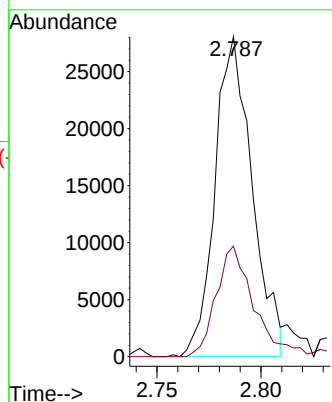
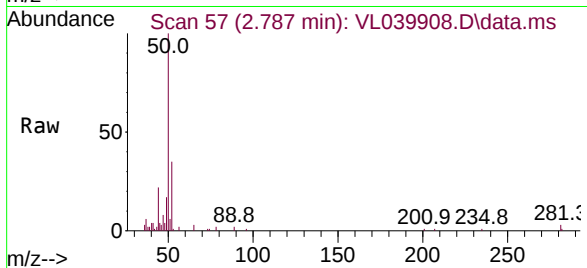




#4
Chloromethane
Concen: 0.368 ppbv
RT: 2.787 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

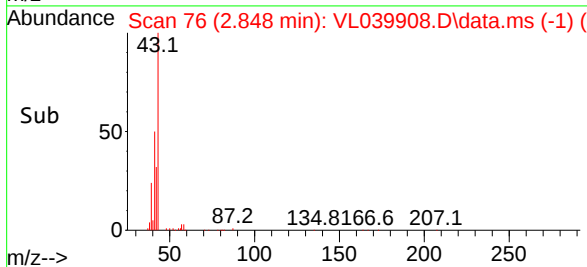
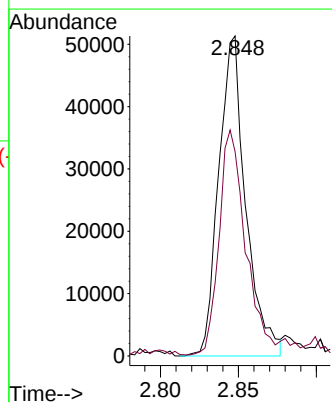
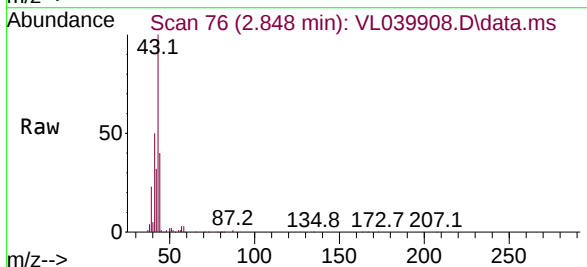
Instrument :
MSVOA_L
ClientSampleId :
IA1

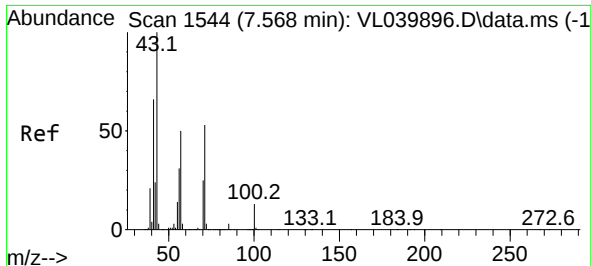
Tgt Ion: 50 Resp: 34867
Ion Ratio Lower Upper
50 100
52 34.5 27.8 41.8



#9
Propene
Concen: 0.885 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.186 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 41 Resp: 61857
Ion Ratio Lower Upper
41 100
42 75.1 55.8 83.6





#10

Heptane

Concen: 0.032 ppbv

RT: 7.549 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Instrument :

MSVOA_L

ClientSampleId :

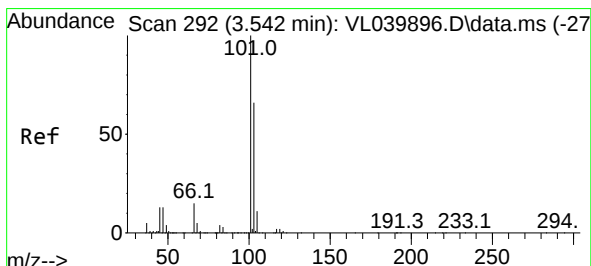
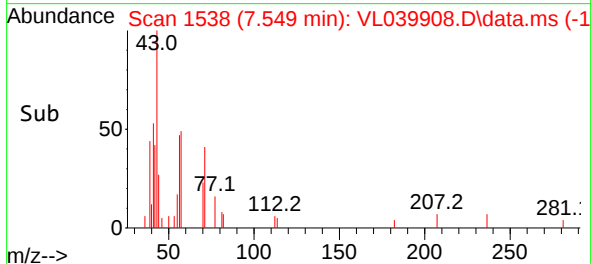
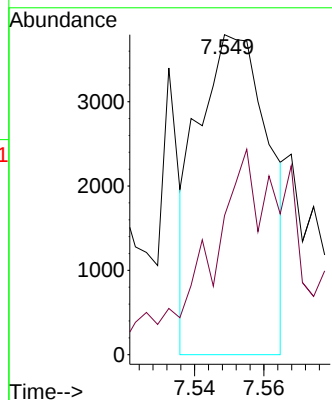
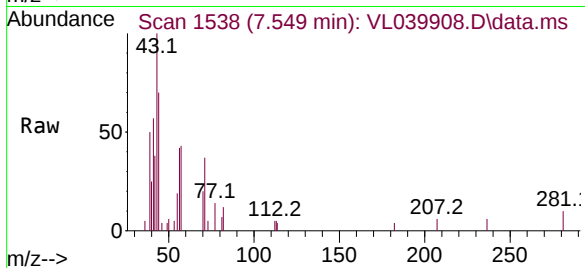
IA1

Tgt Ion: 43 Resp: 5350

Ion Ratio Lower Upper

43 100

57 86.5 40.7 61.1#



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.536 min Scan# 290

Delta R.T. 0.006 min

Lab File: VL039908.D

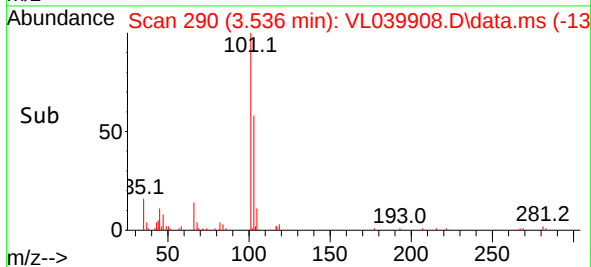
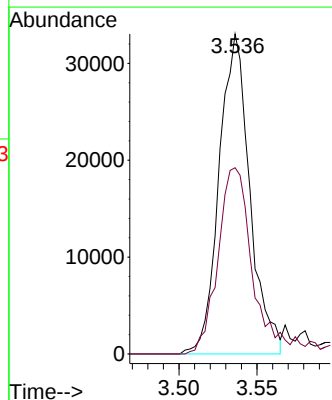
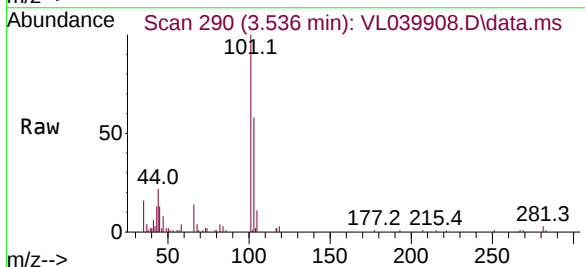
Acq: 21 Nov 2022 13:34

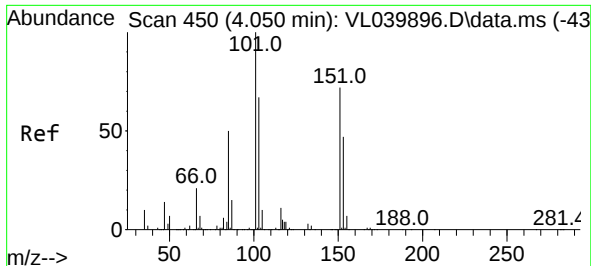
Tgt Ion: 101 Resp: 45190

Ion Ratio Lower Upper

101 100

103 58.2 52.6 78.8

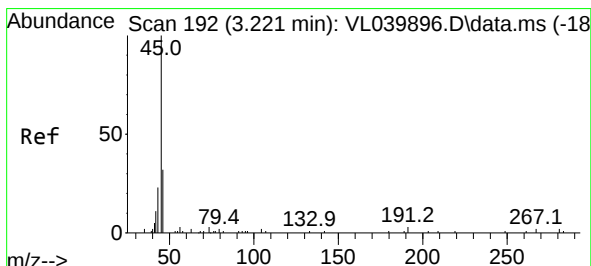
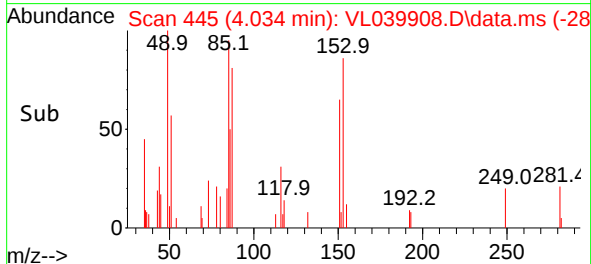
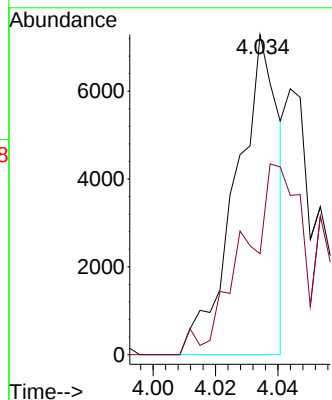
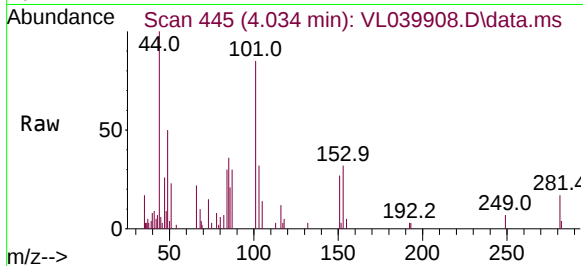




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 4.034 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

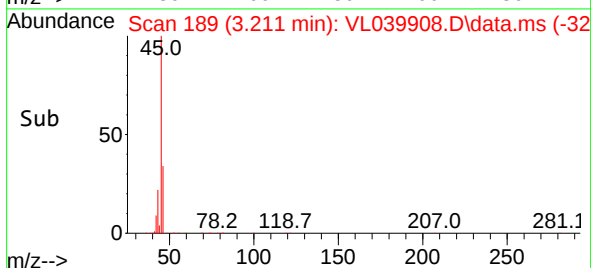
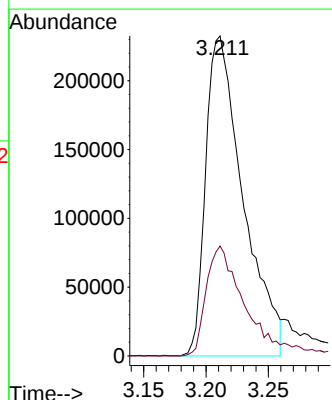
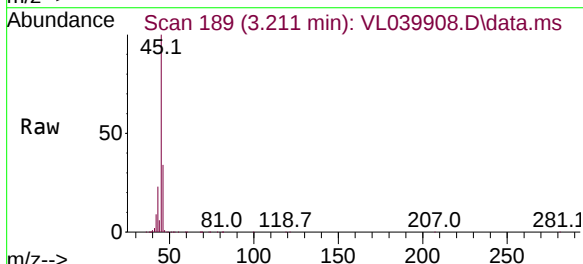
Instrument :
MSVOA_L
ClientSampleId :
IA1

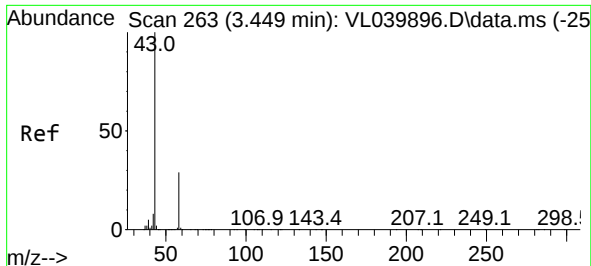
Tgt Ion:101 Resp: 6897
Ion Ratio Lower Upper
101 100
151 109.8 59.6 89.4#



#13
Ethanol
Concen: 91.056 ppbv
RT: 3.211 min Scan# 189
Delta R.T. 0.003 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 45 Resp: 486041
Ion Ratio Lower Upper
45 100
46 37.1 14.6 58.2

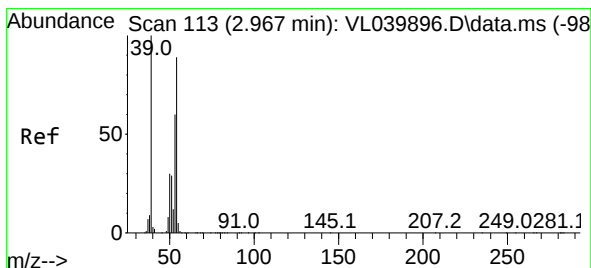
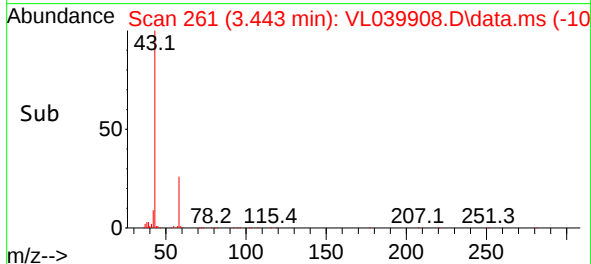
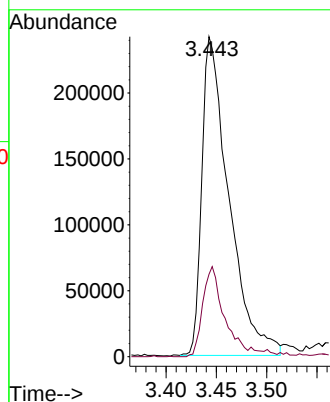
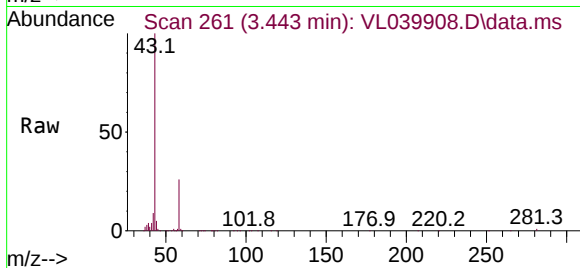




#15
Acetone
Concen: 3.166 ppbv
RT: 3.443 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

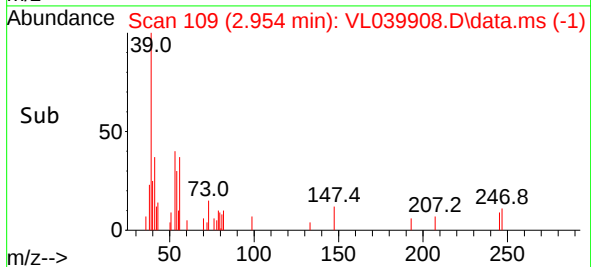
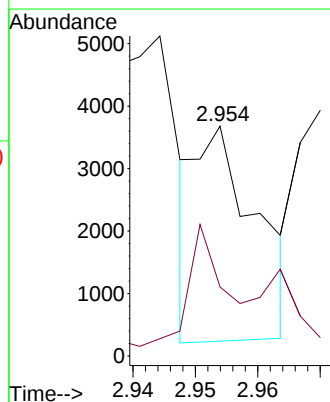
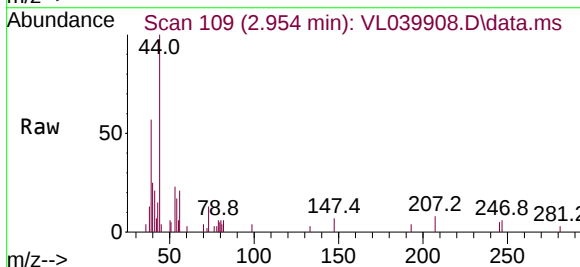
Instrument :
MSVOA_L
ClientSampleId :
IA1

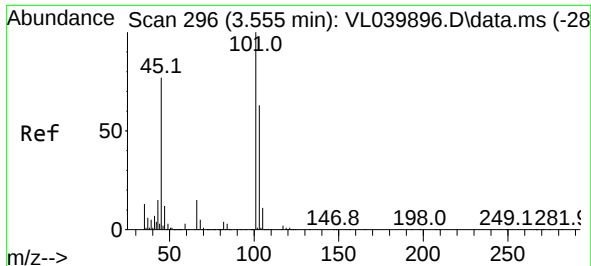
Tgt Ion: 43 Resp: 451677
Ion Ratio Lower Upper
43 100
58 24.5 22.9 34.3



#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 2.954 min Scan# 109
Delta R.T. 0.000 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 39 Resp: 2325
Ion Ratio Lower Upper
39 100
54 114.1 66.6 99.8





#19

Isopropyl Alcohol

Concen: 0.507 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.019 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Instrument :

MSVOA_1

ClientSampleId :

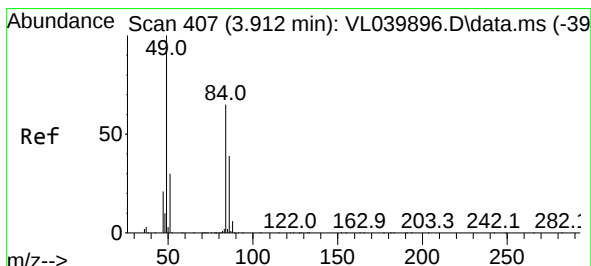
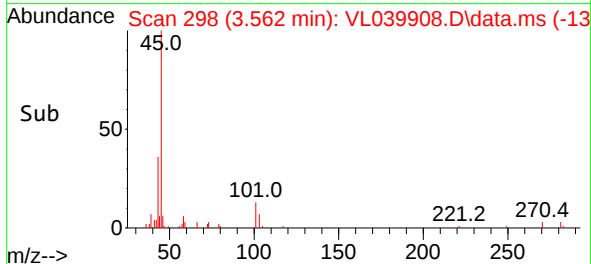
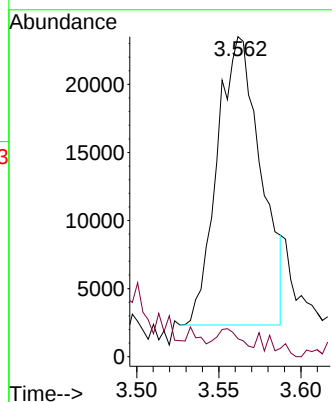
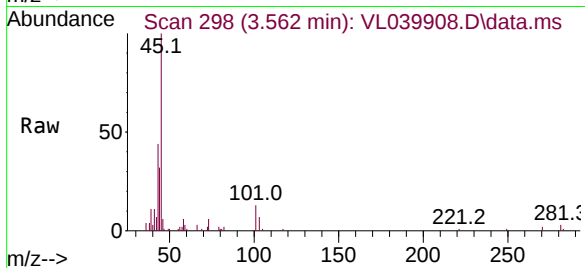
IA1

Tgt Ion: 45 Resp: 39156

Ion Ratio Lower Upper

45 100

58 9.5 38.7 58.1#



#20

Methylene Chloride

Concen: 11.007 ppbv

RT: 3.906 min Scan# 405

Delta R.T. 0.006 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Tgt Ion: 84 Resp: 760788

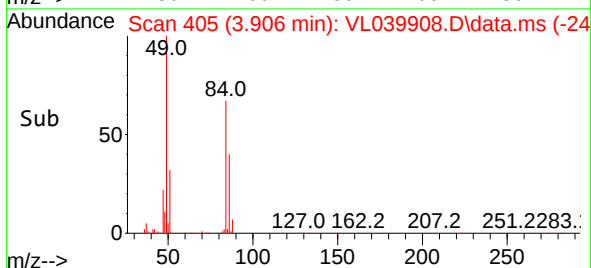
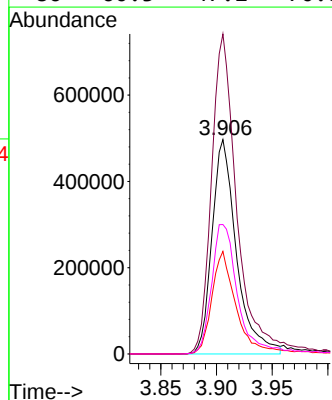
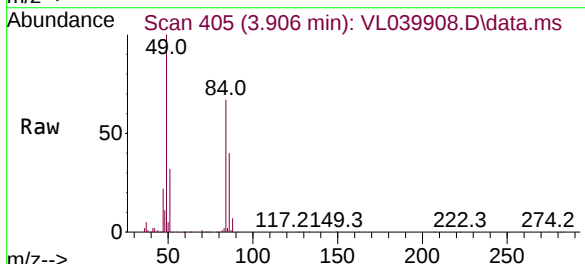
Ion Ratio Lower Upper

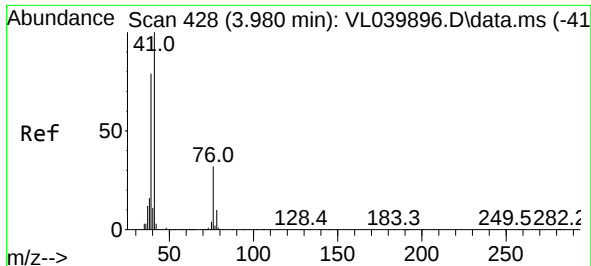
84 100

49 149.2 122.2 183.4

51 47.8 36.3 54.5

86 60.3 47.2 70.8





#21

Allyl Chloride

Concen: 0.261 ppbv

RT: 3.909 min Scan# 406

Delta R.T. -0.055 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Instrument :

MSVOA_1

ClientSampleId :

IA1

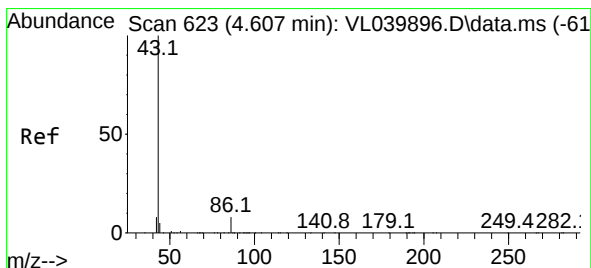
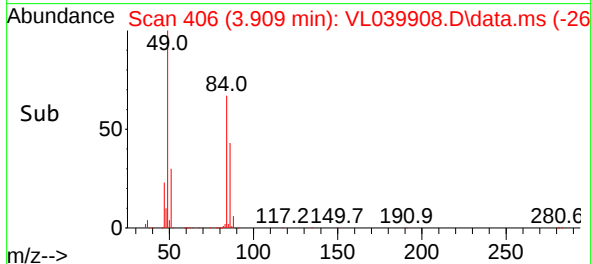
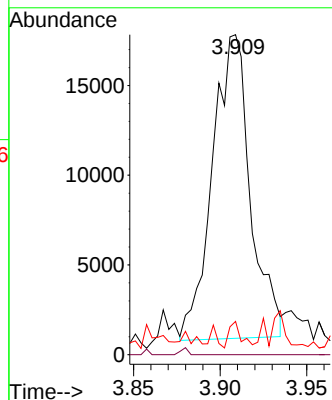
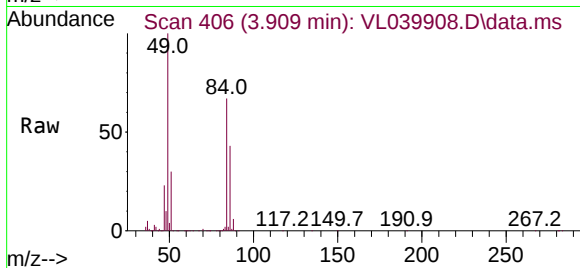
Tgt Ion: 41 Resp: 25824

Ion Ratio Lower Upper

41 100

76 0.0 25.6 38.4#

39 6.2 65.2 97.8#



#23

Vinyl Acetate

Concen: 0.080 ppbv

RT: 4.591 min Scan# 618

Delta R.T. 0.000 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Tgt Ion: 43 Resp: 4715

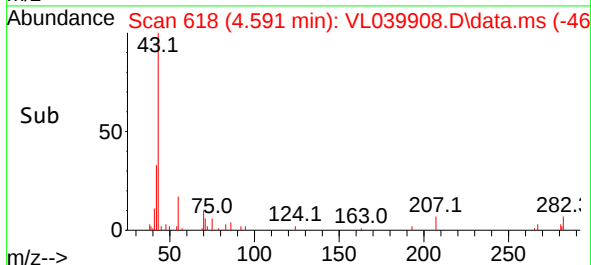
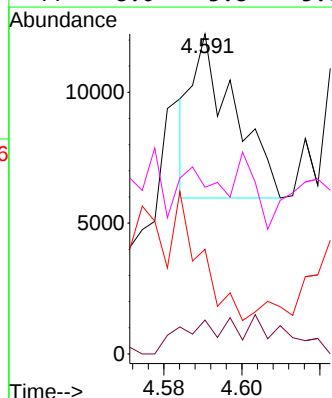
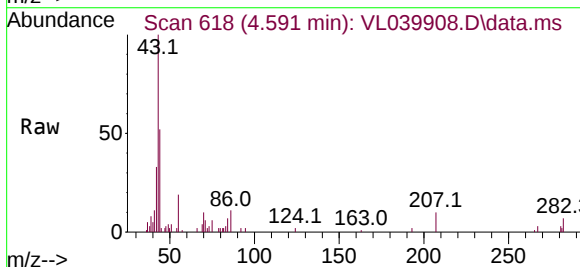
Ion Ratio Lower Upper

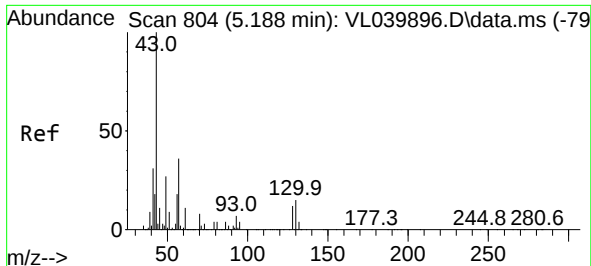
43 100

86 4.2 5.0 7.4#

42 35.0 7.6 11.4#

44 8.0 3.8 5.6#

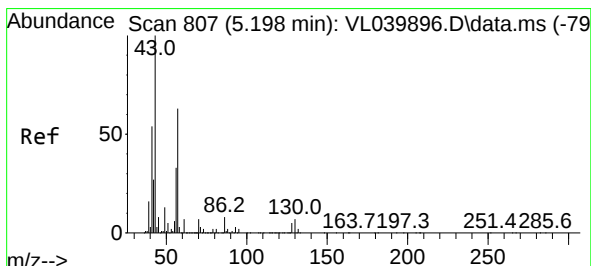
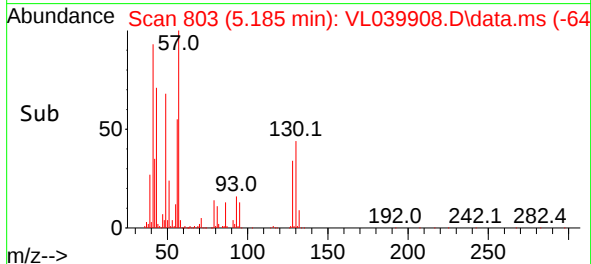
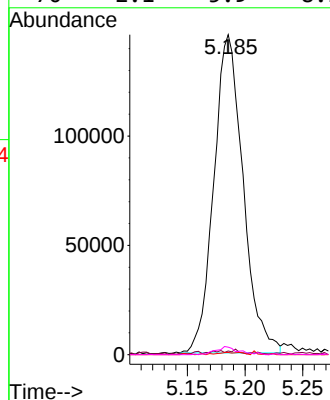
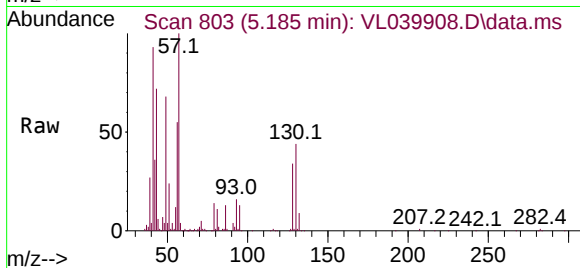




#25
Ethyl Acetate
Concen: 0.979 ppbv
RT: 5.185 min Scan# 803
Delta R.T. 0.016 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

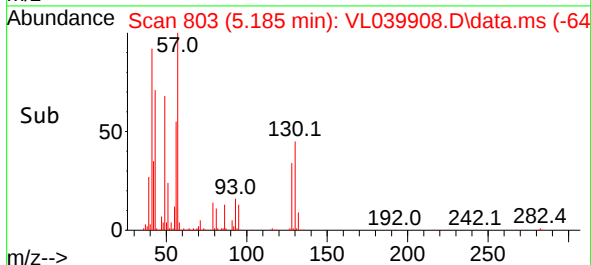
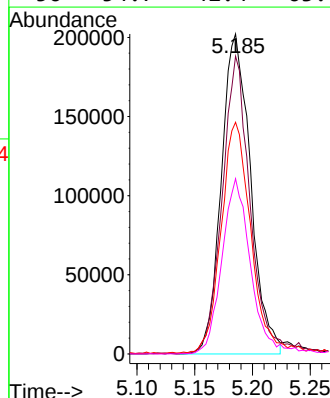
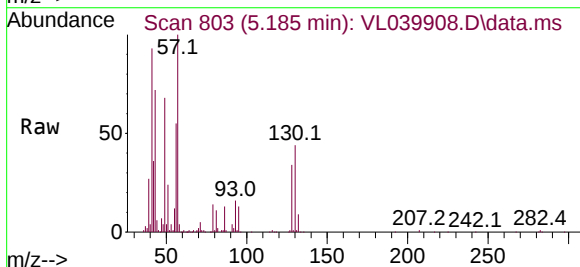
Instrument :
MSVOA_L
ClientSampleId :
IA1

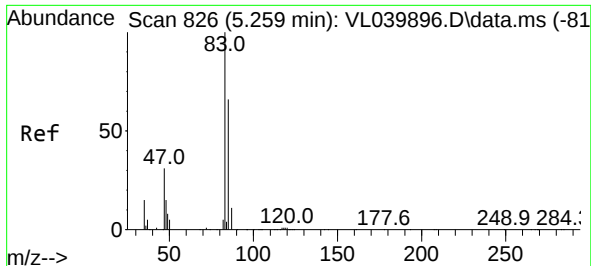
Tgt Ion: 43	Resp: 256515
Ion Ratio	Lower Upper
43 100	
45 2.1	8.4 12.6#
61 0.8	8.5 12.7#
70 2.1	5.9 8.9#



#26
Hexane
Concen: 3.108 ppbv
RT: 5.185 min Scan# 803
Delta R.T. 0.003 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt	Ion: 57	Resp:	355684
Ion	Ratio	Lower	Upper
57	100		
41	92.2	72.3	108.5
43	75.0	188.7	283.1#
56	54.7	42.4	63.6





#29

Chloroform

Concen: 0.072 ppbv

RT: 5.243 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Instrument :

MSVOA_L

ClientSampleId :

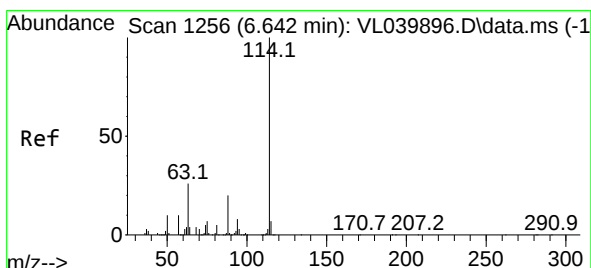
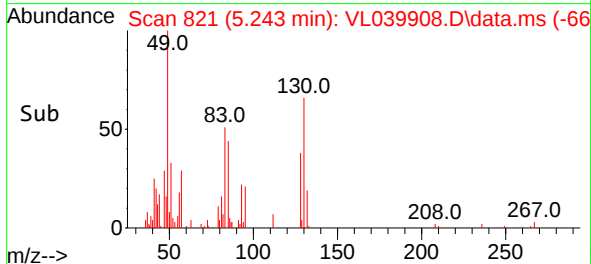
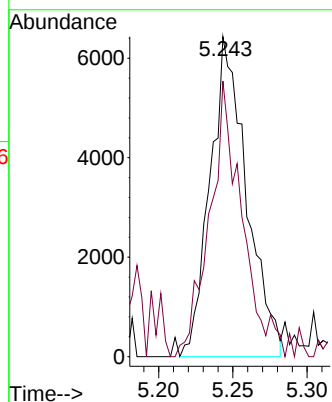
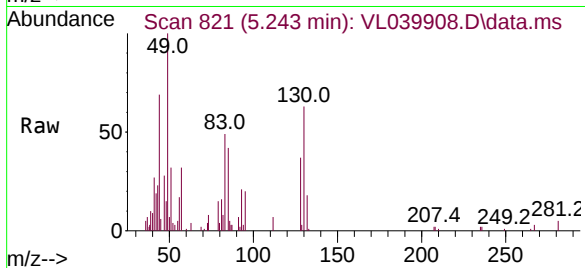
IA1

Tgt Ion: 83 Resp: 11005

Ion Ratio Lower Upper

83 100

85 82.5 52.4 78.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.626 min Scan# 1251

Delta R.T. 0.006 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

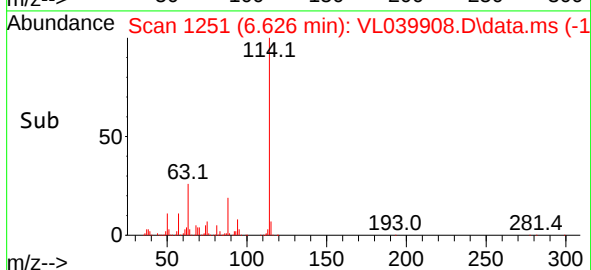
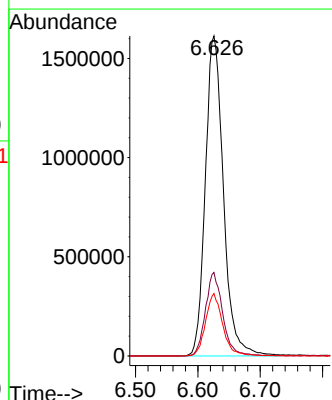
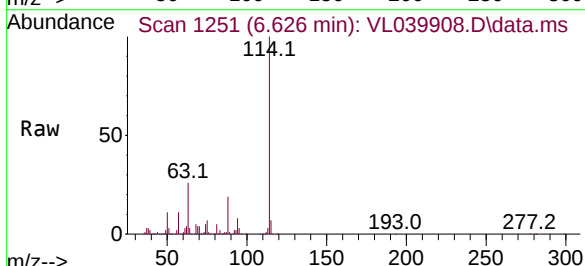
Tgt Ion: 114 Resp: 3259466

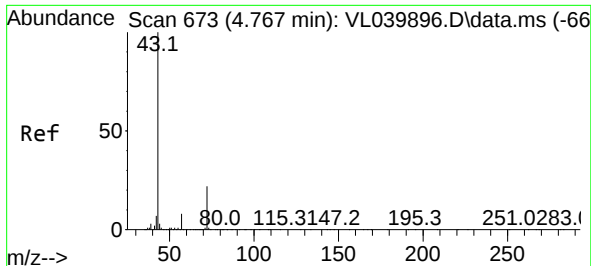
Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.0

88 18.6 15.3 22.9

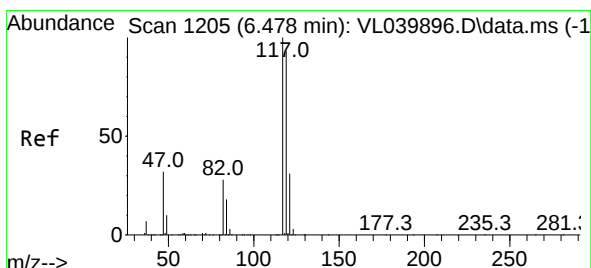
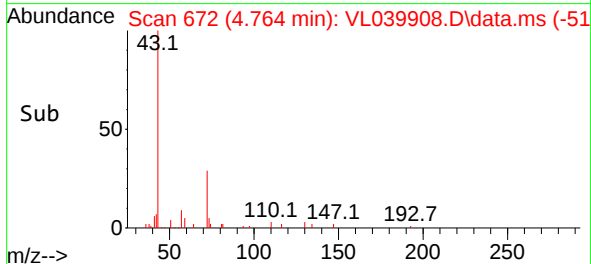
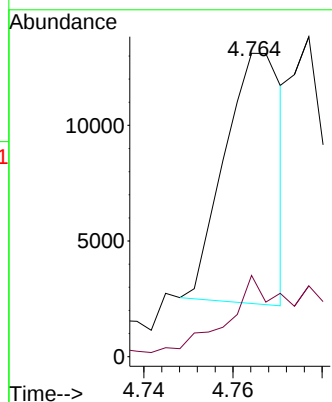
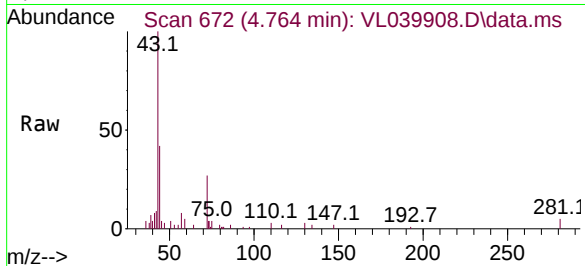




#34
2-Butanone
Concen: 0.061 ppbv
RT: 4.764 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

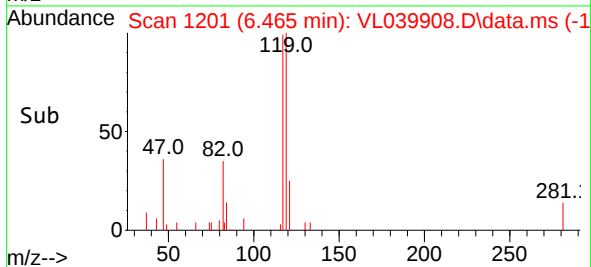
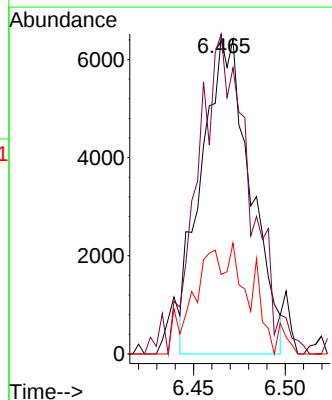
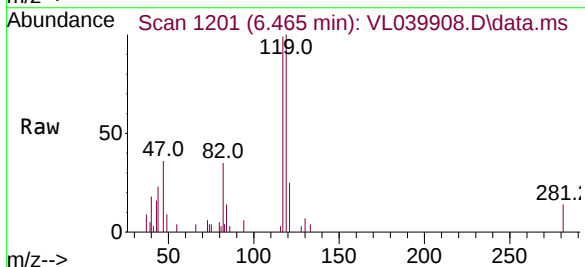
Instrument :
MSVOA_L
ClientSampleId :
IA1

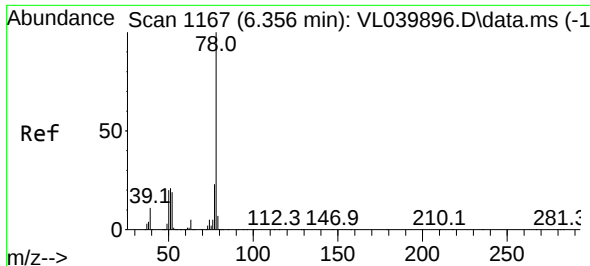
Tgt Ion: 43 Resp: 9540
Ion Ratio Lower Upper
43 100
72 70.0 17.4 26.2#



#35
Carbon Tetrachloride
Concen: 0.065 ppbv
RT: 6.465 min Scan# 1201
Delta R.T. 0.003 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 117 Resp: 11961
Ion Ratio Lower Upper
117 100
119 101.2 74.7 112.1
121 21.5 24.5 36.7#

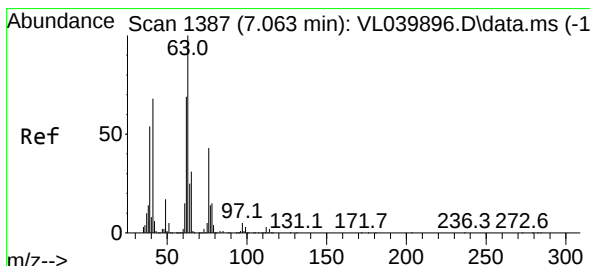
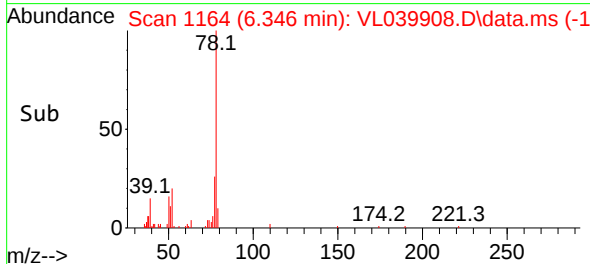
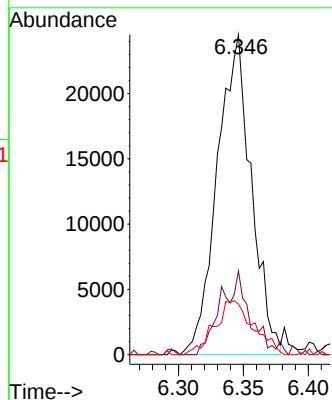
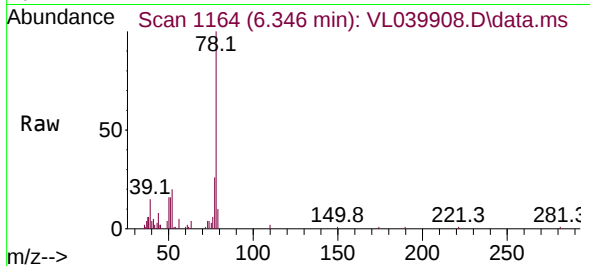




#36
Benzene
Concen: 0.161 ppbv
RT: 6.346 min Scan# 1167
Delta R.T. 0.010 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

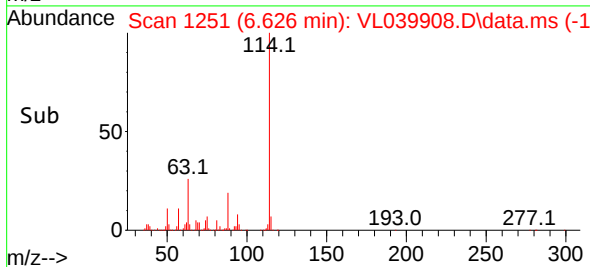
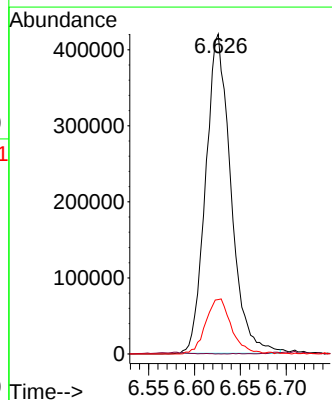
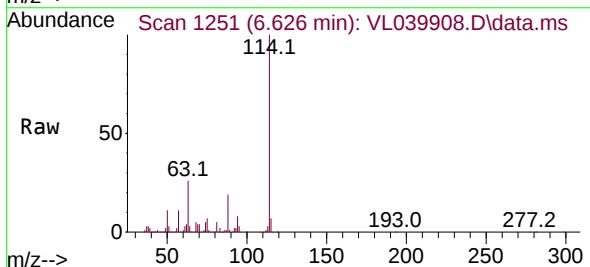
Instrument :
MSVOA_L
ClientSampleId :
IA1

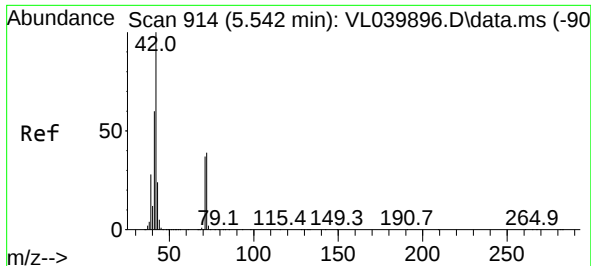
Tgt Ion: 78 Resp: 44571
Ion Ratio Lower Upper
78 100
77 26.2 18.2 27.2
50 15.9 15.8 23.8



#39
1,2-Dichloropropane
Concen: 7.438 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. -0.415 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 63 Resp: 802899
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 17.1 55.0 82.6#





#41

Tetrahydrofuran

Concen: 1.244 ppbv

RT: 5.189 min Scan# 80

Delta R.T. -0.334 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

Instrument :

MSVOA_L

ClientSampleId :

IA1

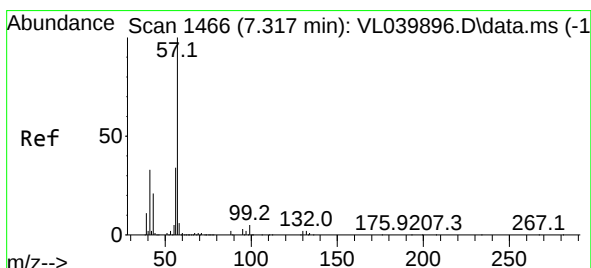
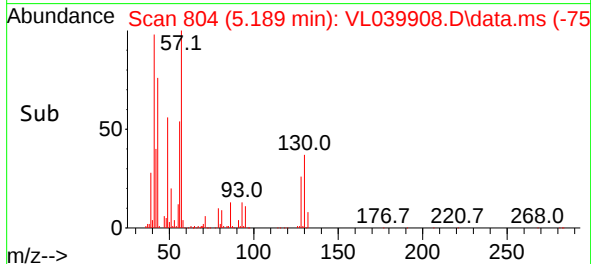
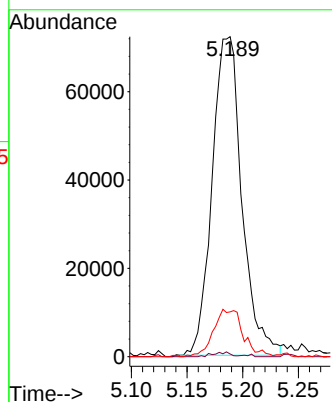
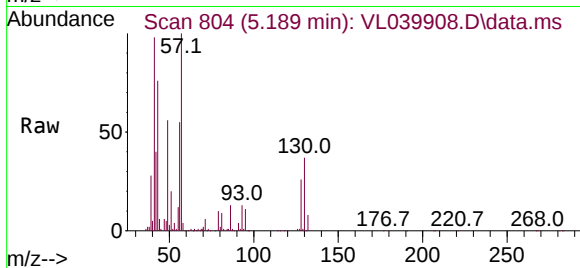
Tgt Ion: 42 Resp: 133996

Ion Ratio Lower Upper

42 100

72 1.0 31.6 47.4#

71 15.2 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.058 ppbv

RT: 7.298 min Scan# 1460

Delta R.T. 0.003 min

Lab File: VL039908.D

Acq: 21 Nov 2022 13:34

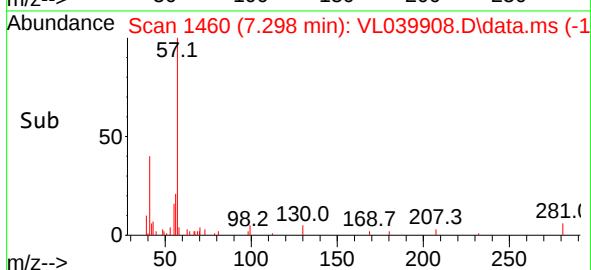
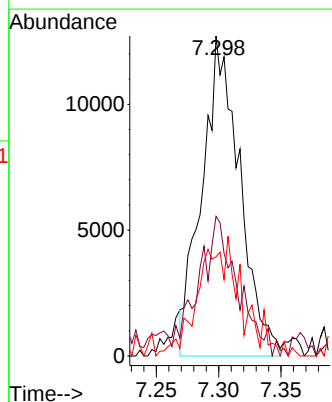
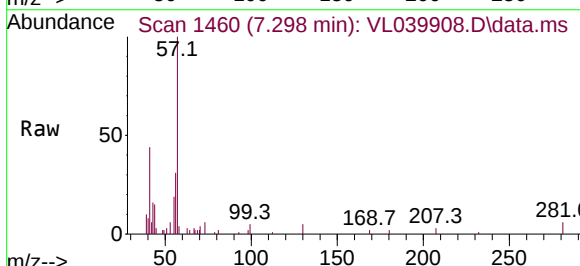
Tgt Ion: 57 Resp: 26734

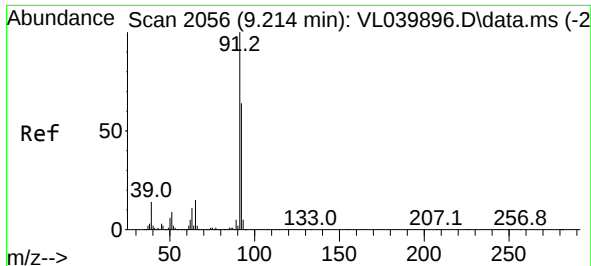
Ion Ratio Lower Upper

57 100

41 48.9 26.2 39.2#

56 41.8 25.5 38.3#

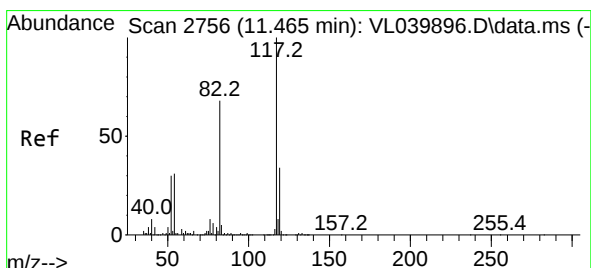
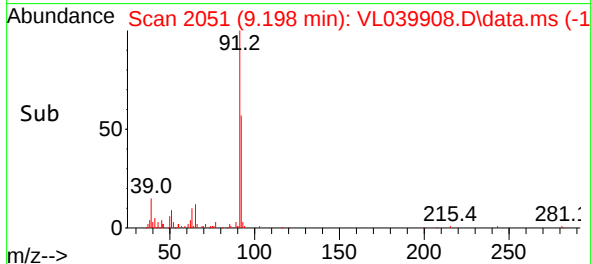
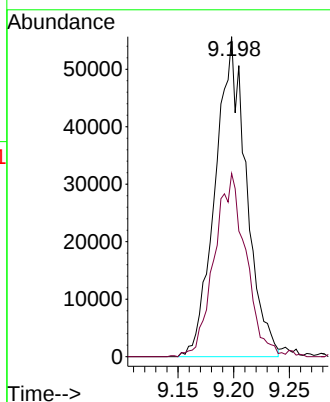
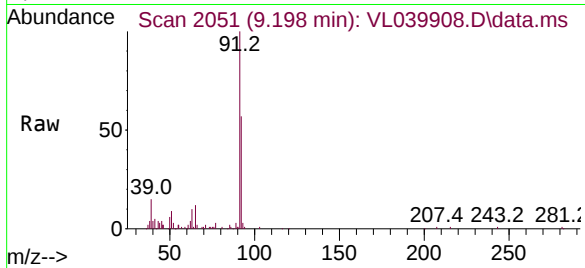




#53
Toluene
Concen: 0.343 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

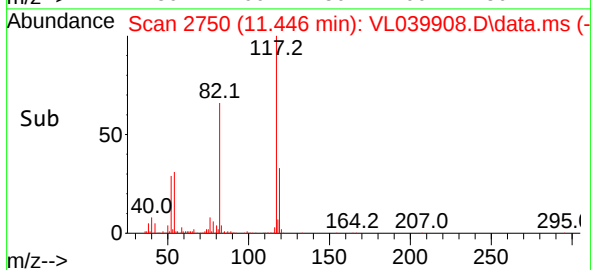
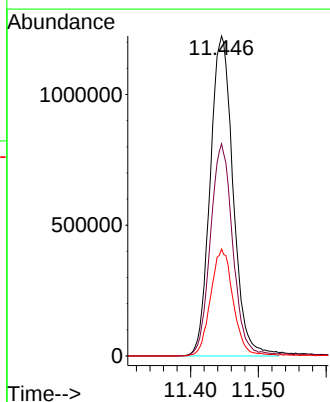
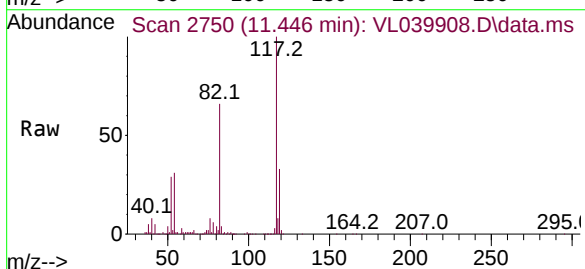
Instrument :
MSVOA_L
ClientSampleId :
IA1

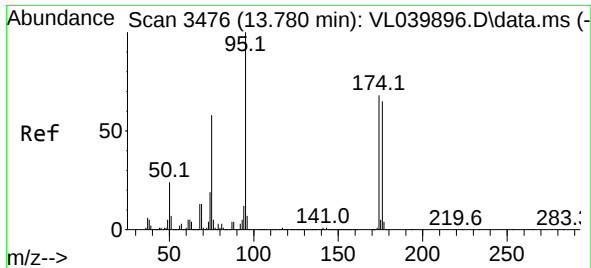
Tgt Ion: 91 Resp: 108356
Ion Ratio Lower Upper
91 100
92 58.7 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. 0.006 min
Lab File: VL039908.D
Acq: 21 Nov 2022 13:34

Tgt Ion: 117 Resp: 2877199
Ion Ratio Lower Upper
117 100
82 65.6 52.3 78.5
119 33.2 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.231 ppbv
 RT: 13.761 min Scan# 3470
 Delta R.T. 0.006 min
 Lab File: VL039908.D
 Acq: 21 Nov 2022 13:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 2248395

Ion	Ratio	Lower	Upper
95	100		
174	63.7	53.7	80.5
175	4.5	4.0	6.0

