

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031224\
 Data File : VL041097.D
 Acq On : 12 Mar 2024 13:47
 Operator : SY/MD
 Sample : P1718-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 13 01:28:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 13 01:22:02 2024
 Response via : Initial Calibration

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

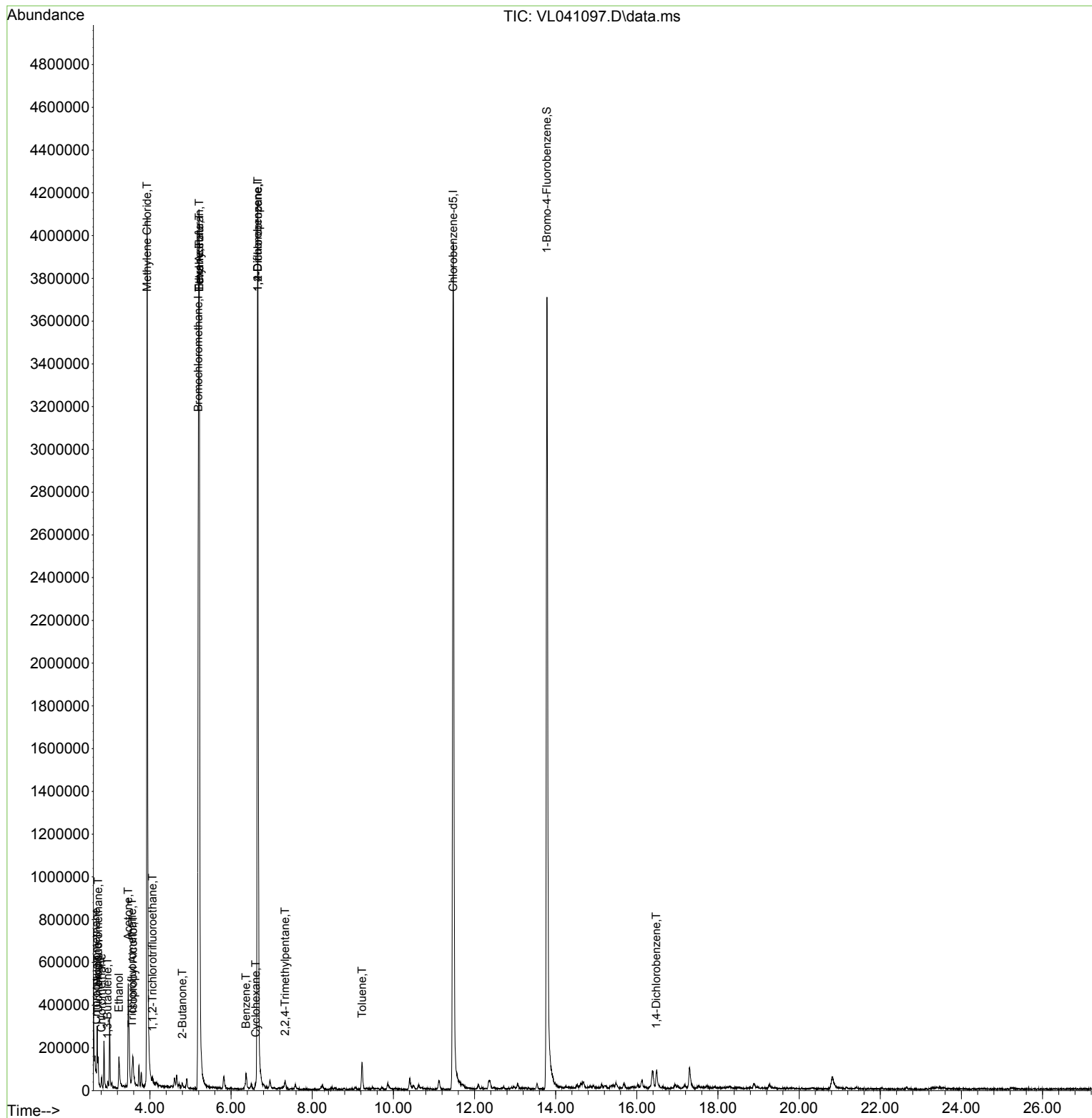
Internal Standards						
1) Bromochloromethane	5.192	49	1216247	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	3155407	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2651040	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2007379	9.685	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	71721	0.309	ppbv	94
3) Chlorodifluoromethane	2.671	51	114526	0.641	ppbv #	79
4) Chloromethane	2.809	50	35336	0.523	ppbv	95
9) Propene	2.703	41	58007	0.975	ppbv #	78
11) Trichlorofluoromethane	3.555	101	39934	0.223	ppbv	86
12) 1,1,2-Trichlorotrifluo...	4.063	101	4552	0.035	ppbv #	1
13) Ethanol	3.237	45	158171	9.977	ppbv	92
15) Acetone	3.465	43	533855	3.853	ppbv	99
16) 1,3-Butadiene	2.954	39	9166	0.146	ppbv #	60
19) Isopropyl Alcohol	3.584	45	133150	1.799	ppbv #	1
20) Methylene Chloride	3.931	84	1331765	24.654	ppbv	91
25) Ethyl Acetate	5.214	43	996960	3.994	ppbv #	76
26) Hexane	5.214	57	1402332	12.569	ppbv #	41
30) Cyclohexane	6.606	84	3907	0.042	ppbv #	1
34) 2-Butanone	4.796	43	17093	0.109	ppbv #	75
36) Benzene	6.368	78	50611	0.215	ppbv	97
39) 1,2-Dichloropropane	6.658	63	773546	8.233	ppbv #	22
41) Tetrahydrofuran	5.214	42	531784	5.719	ppbv #	50
44) 2,2,4-Trimethylpentane	7.333	57	18277	0.047	ppbv #	29
53) Toluene	9.230	91	89850	0.355	ppbv	100
76) 1,4-Dichlorobenzene	16.477	146	5411	0.033	ppbv #	22

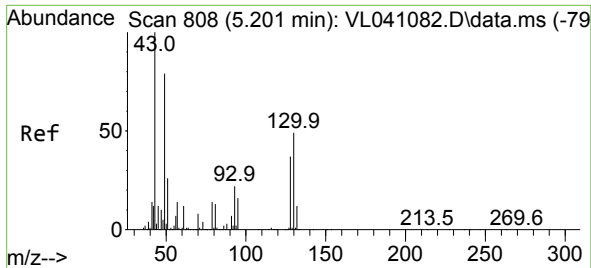
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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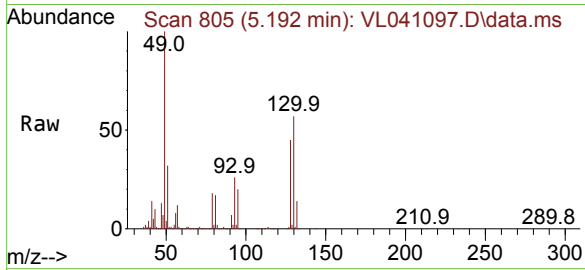
Quant Time: Mar 13 01:28:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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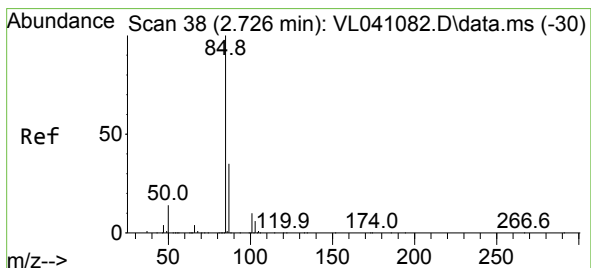
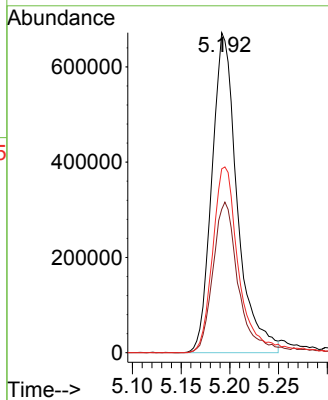
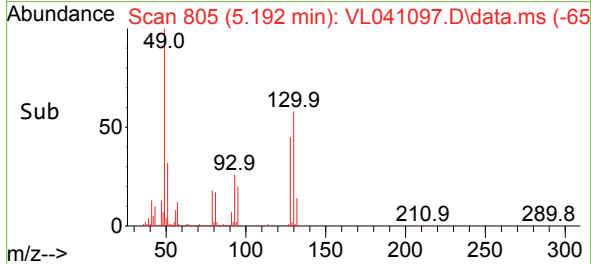


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

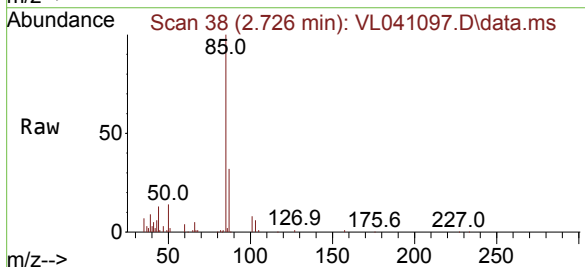
Instrument :
MSVOA_L
ClientSampleId :
IA1



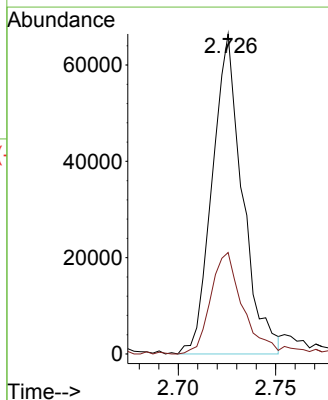
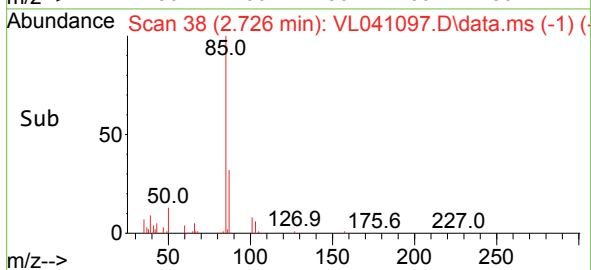
Tgt Ion: 49 Resp: 1216247
Ion Ratio Lower Upper
49 100
128 49.4 23.8 71.5
130 60.9 30.3 90.9

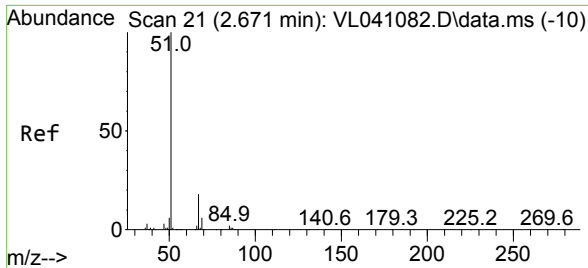


#2
Dichlorodifluoromethane
Concen: 0.309 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47



Tgt Ion: 85 Resp: 71721
Ion Ratio Lower Upper
85 100
87 31.8 28.1 42.1

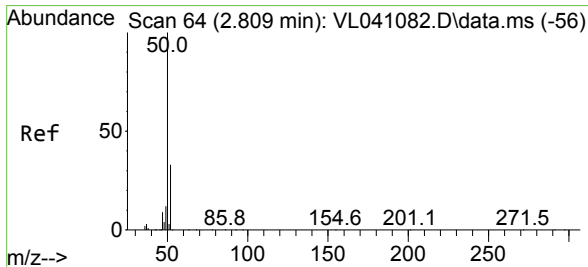
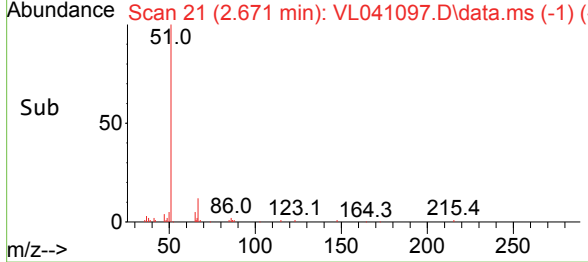
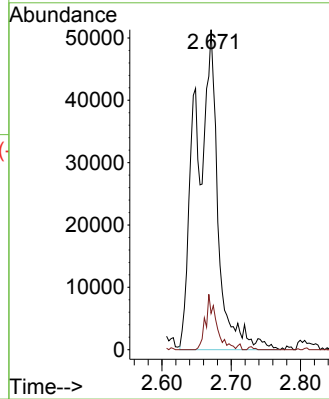
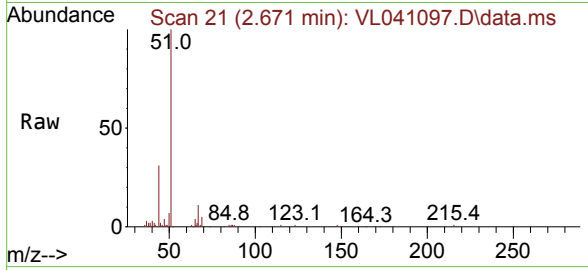




#3
Chlorodifluoromethane
Concen: 0.641 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

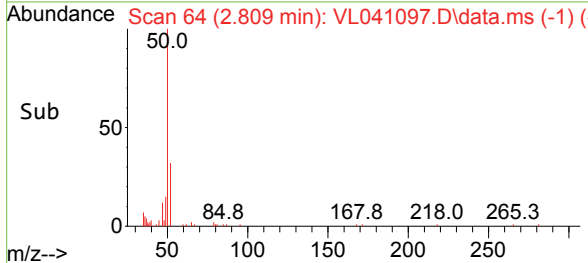
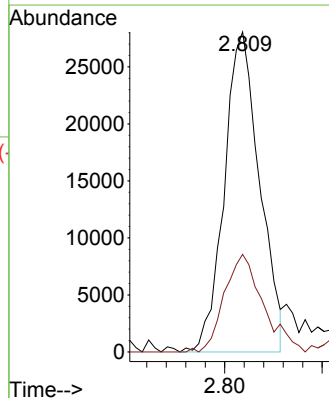
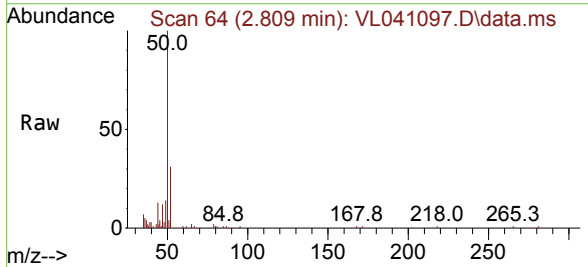
Instrument :
MSVOA_L
ClientSampleId :
IA1

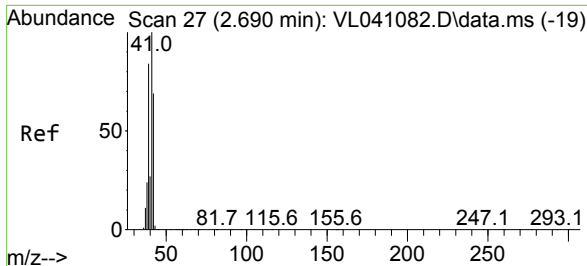
Tgt Ion: 51 Resp: 114526
Ion Ratio Lower Upper
51 100
67 8.8 14.5 21.7#



#4
Chloromethane
Concen: 0.523 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

Tgt Ion: 50 Resp: 35336
Ion Ratio Lower Upper
50 100
52 30.5 26.6 40.0

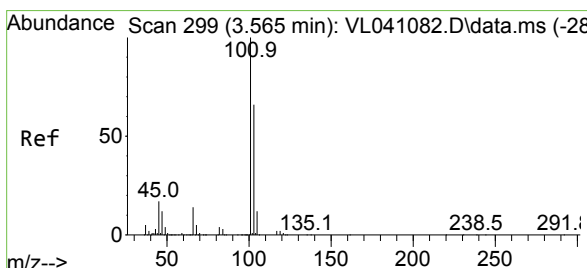
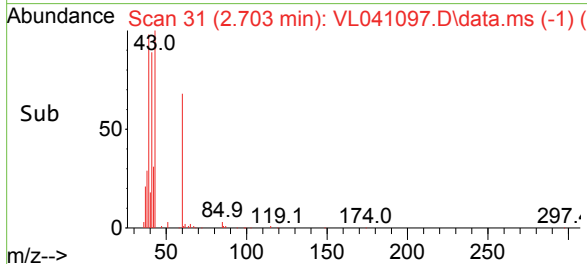
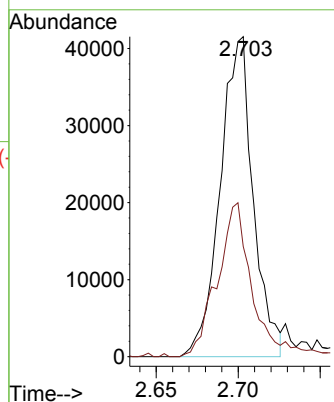
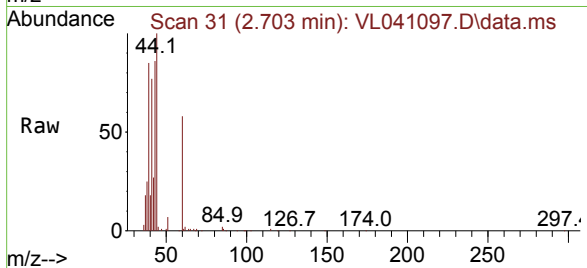




#9
 Propene
 Concen: 0.975 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. 0.019 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

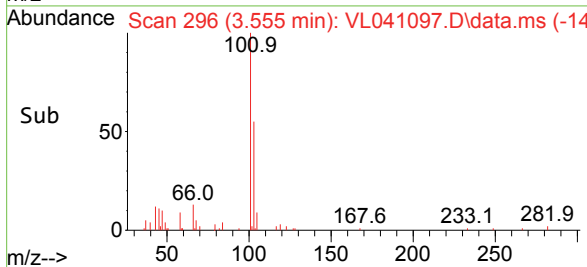
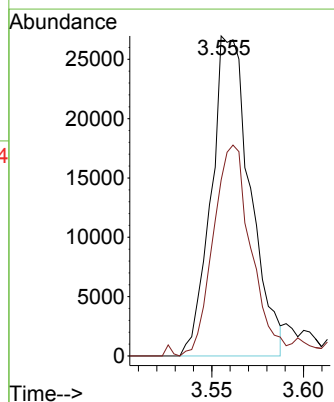
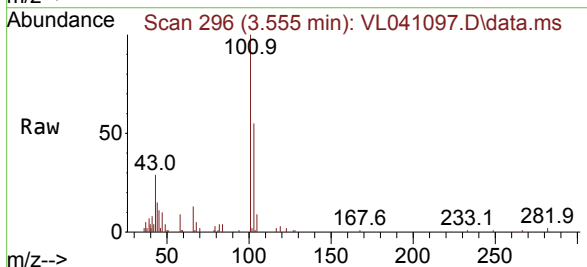
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

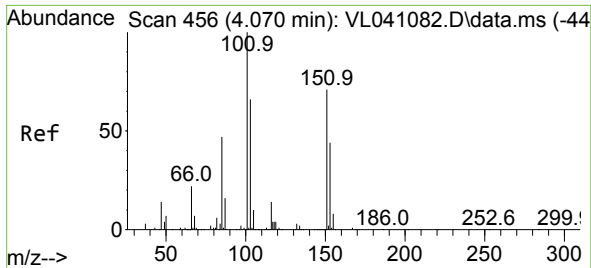
Tgt Ion: 41 Resp: 58007
 Ion Ratio Lower Upper
 41 100
 42 51.7 55.9 83.9#



#11
 Trichlorofluoromethane
 Concen: 0.223 ppbv
 RT: 3.555 min Scan# 296
 Delta R.T. -0.003 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

Tgt Ion: 101 Resp: 39934
 Ion Ratio Lower Upper
 101 100
 103 55.4 53.0 79.4

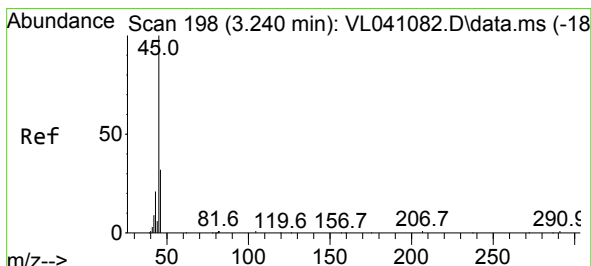
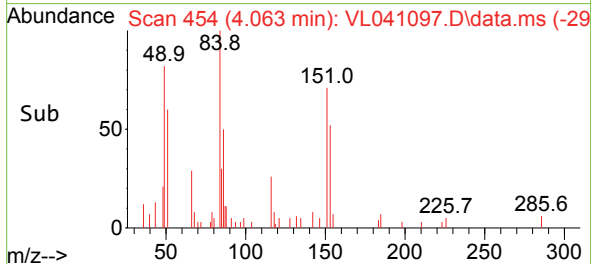
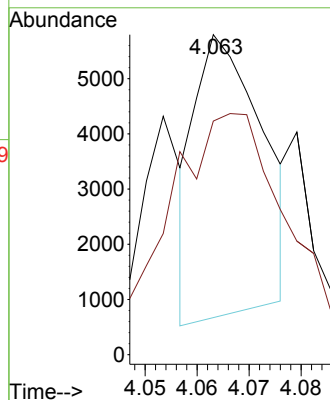
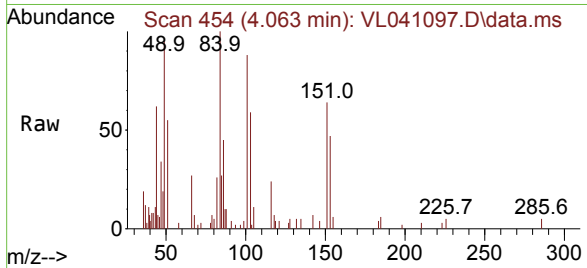




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.063 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

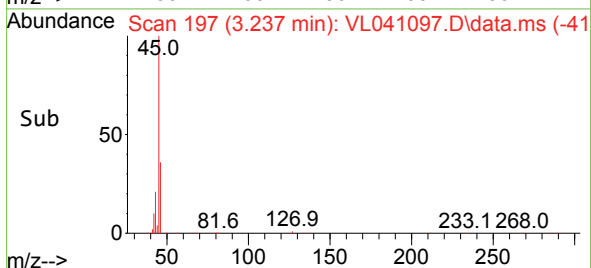
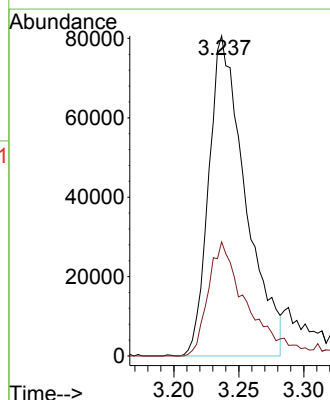
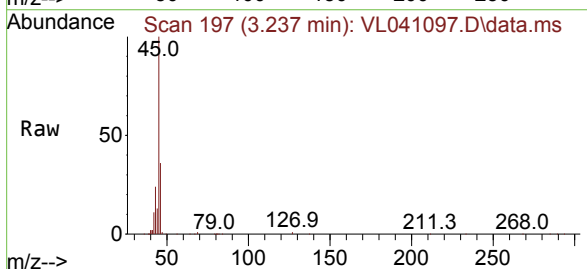
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

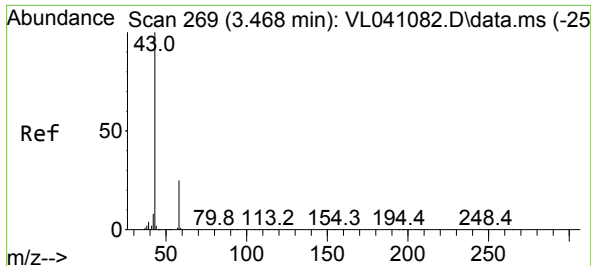
Tgt Ion:101 Resp: 4552
 Ion Ratio Lower Upper
 101 100
 151 160.7 55.8 83.8#



#13
 Ethanol
 Concen: 9.977 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.003 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

Tgt Ion: 45 Resp: 158171
 Ion Ratio Lower Upper
 45 100
 46 41.0 14.6 58.2

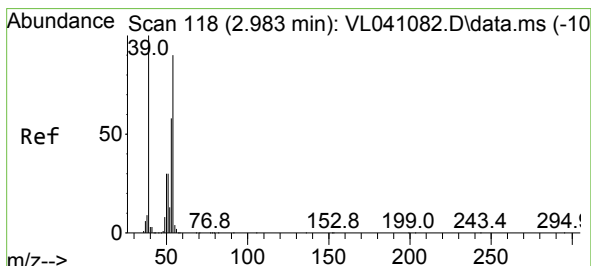
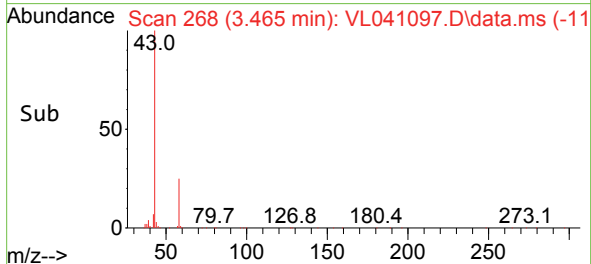
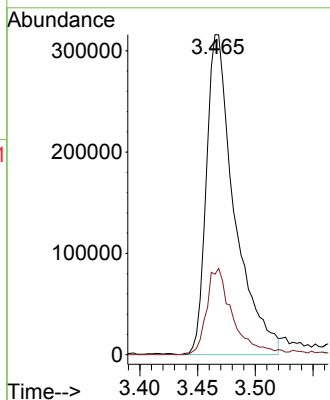
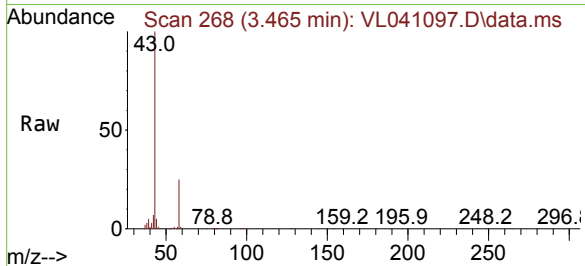




#15
Acetone
Concen: 3.853 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

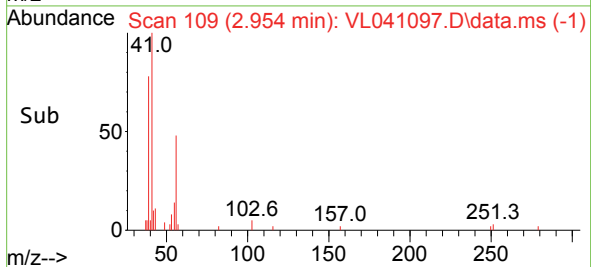
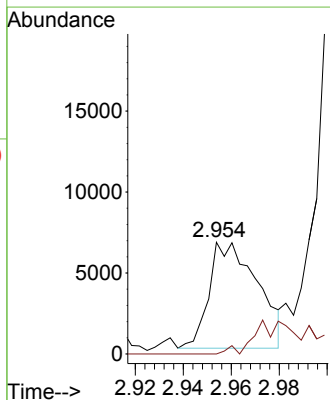
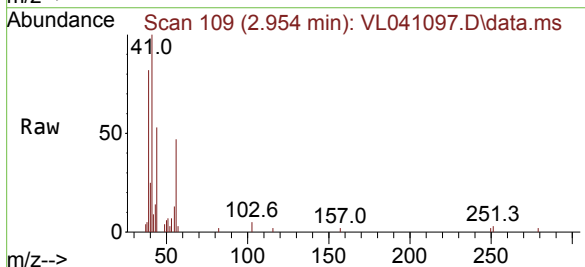
Instrument :
MSVOA_L
ClientSampleId :
IA1

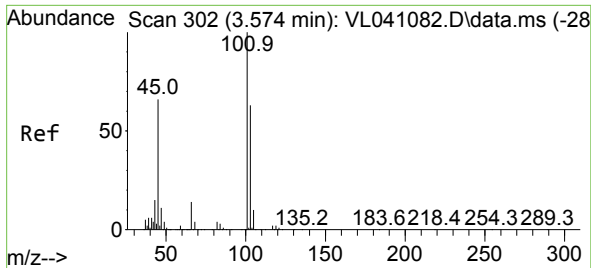
Tgt Ion: 43 Resp: 533855
Ion Ratio Lower Upper
43 100
58 27.7 21.7 32.5



#16
1,3-Butadiene
Concen: 0.146 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.023 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

Tgt Ion: 39 Resp: 9166
Ion Ratio Lower Upper
39 100
54 44.7 64.0 96.0#





#19

Isopropyl Alcohol

Concen: 1.799 ppbv

RT: 3.584 min Scan# 302

Delta R.T. 0.016 min

Lab File: VL041097.D

Acq: 12 Mar 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

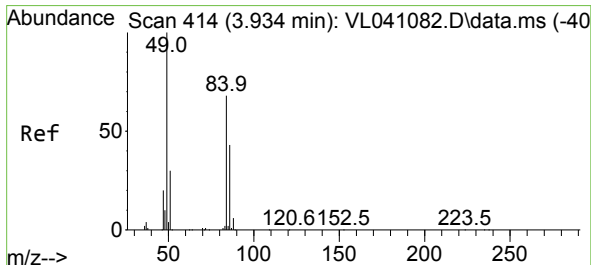
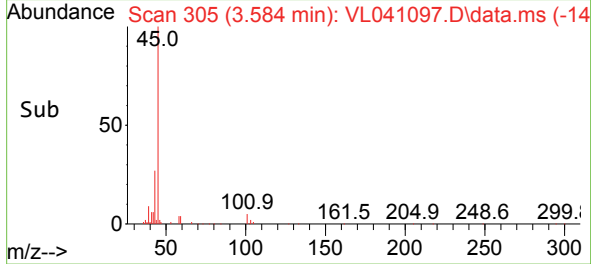
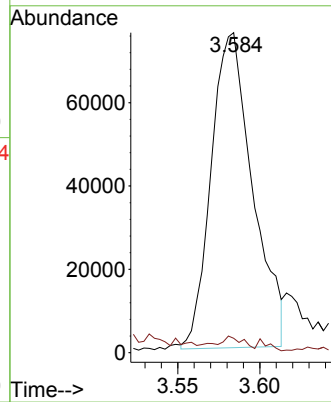
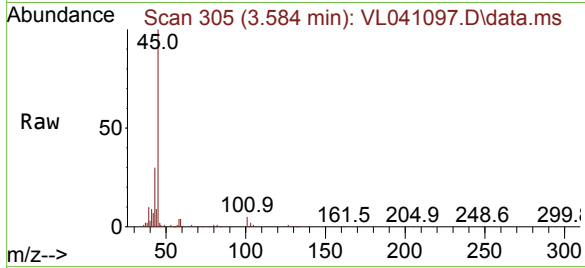
IA1

Tgt Ion: 45 Resp: 133150

Ion Ratio Lower Upper

45 100

58 111.2 2.2 3.4#



#20

Methylene Chloride

Concen: 24.654 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.003 min

Lab File: VL041097.D

Acq: 12 Mar 2024 13:47

Tgt Ion: 84 Resp: 1331765

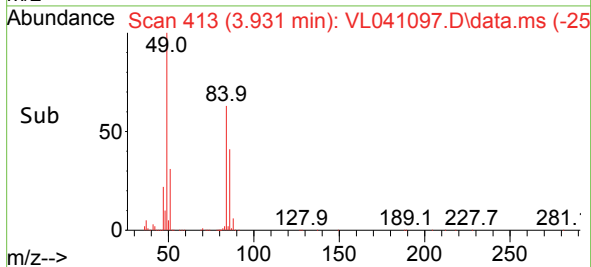
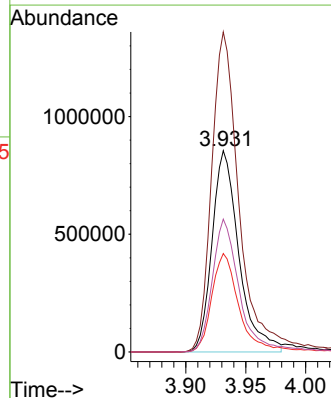
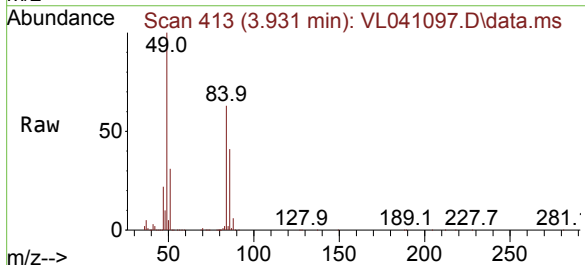
Ion Ratio Lower Upper

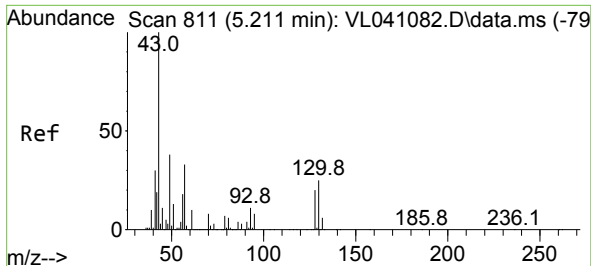
84 100

49 159.0 117.0 175.6

51 48.9 34.9 52.3

86 65.9 49.8 74.6

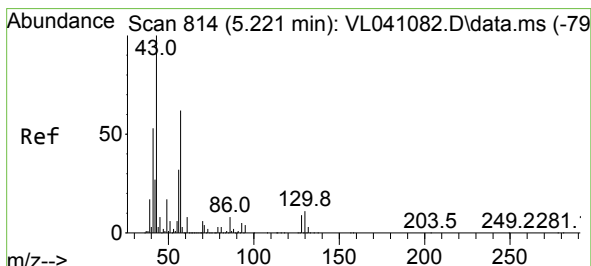
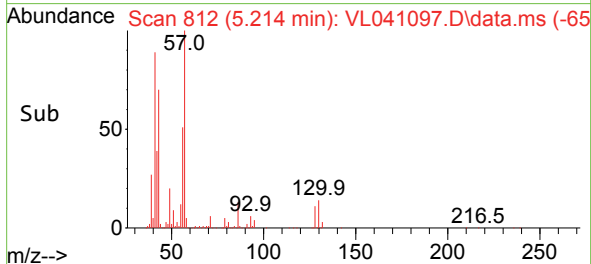
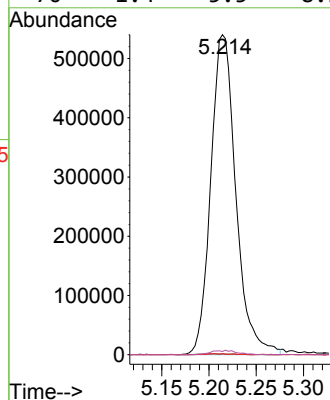
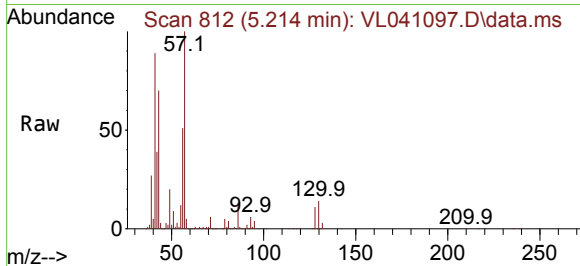




#25
Ethyl Acetate
Concen: 3.994 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.009 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

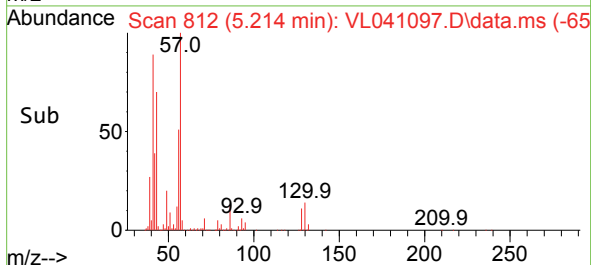
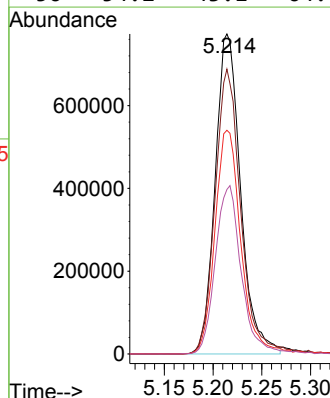
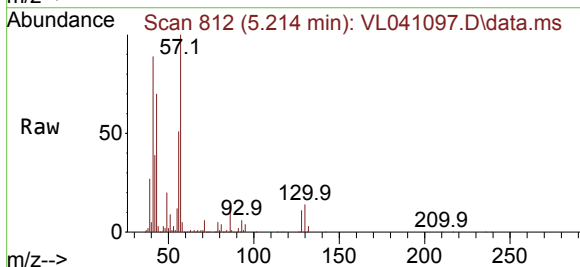
Instrument :
MSVOA_L
ClientSampleId :
IA1

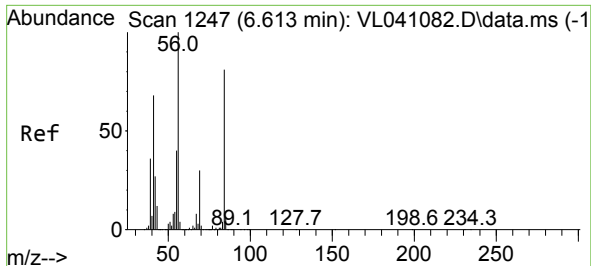
Tgt Ion: 43 Resp: 996960
Ion Ratio Lower Upper
43 100
45 0.4 8.2 12.2#
61 0.3 8.2 12.2#
70 1.4 5.5 8.3#



#26
Hexane
Concen: 12.569 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

Tgt Ion: 57 Resp: 1402332
Ion Ratio Lower Upper
57 100
41 91.2 73.8 110.6
43 72.3 184.2 276.2#
56 54.2 43.1 64.7

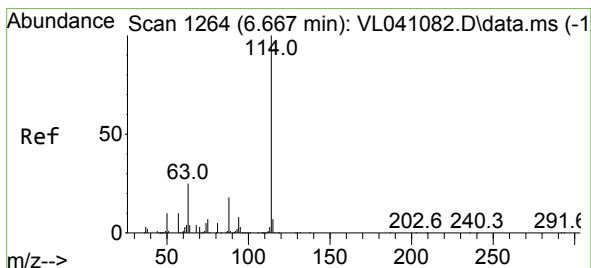
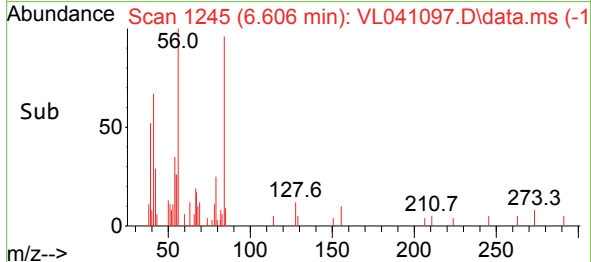
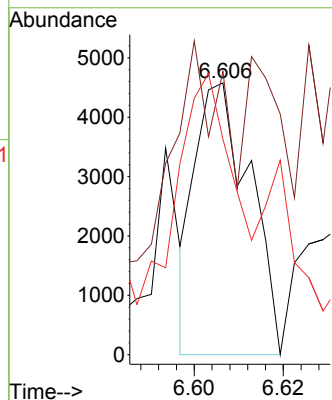
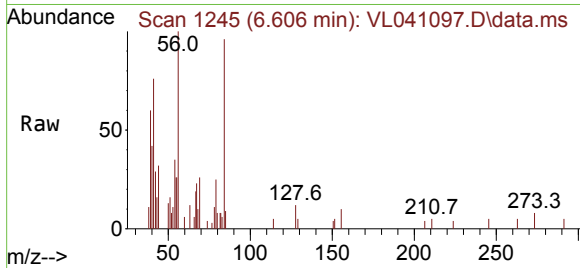




#30
Cyclohexane
Concen: 0.042 ppbv
RT: 6.606 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

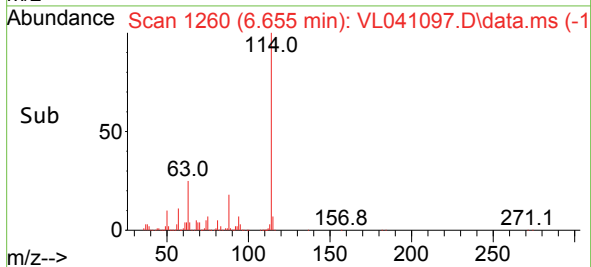
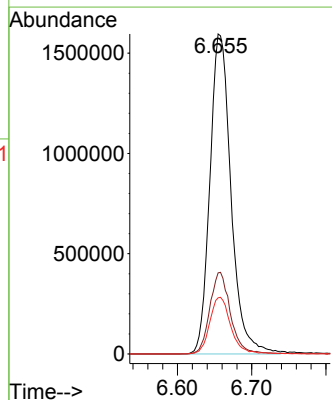
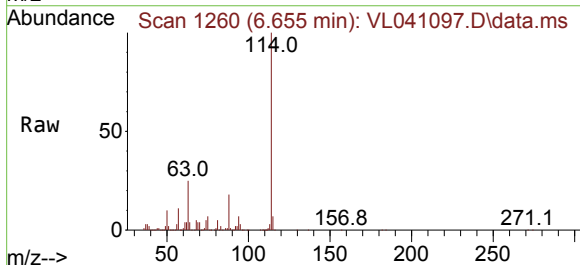
Instrument :
MSVOA_L
ClientSampleId :
IA1

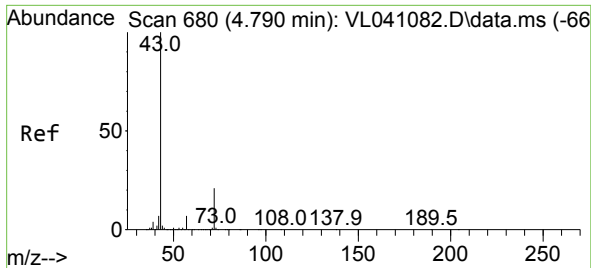
Tgt Ion: 84 Resp: 3907
Ion Ratio Lower Upper
84 100
56 0.0 110.4 165.6#
41 225.7 70.6 105.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.000 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

Tgt Ion: 114 Resp: 3155407
Ion Ratio Lower Upper
114 100
63 25.0 21.0 31.6
88 17.8 14.6 22.0

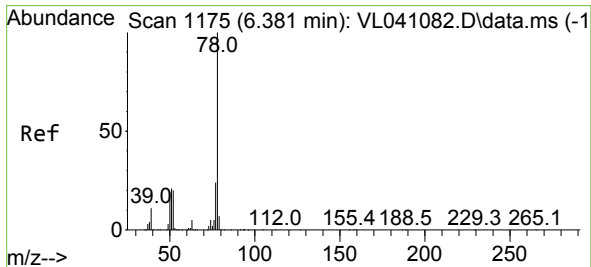
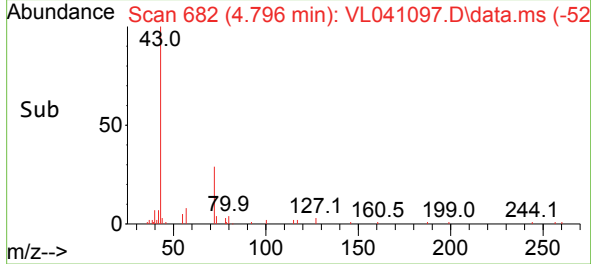
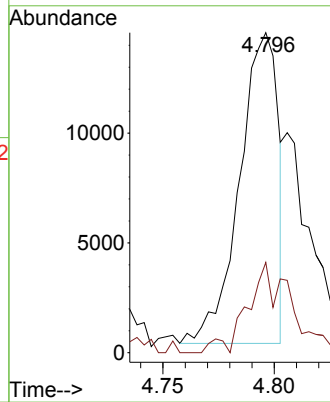
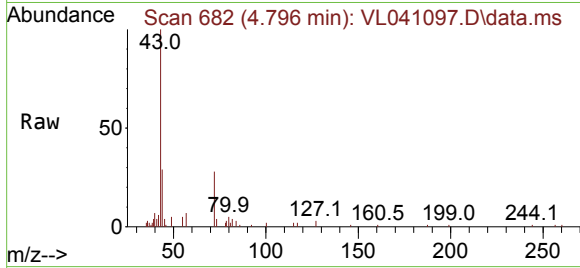




#34
2-Butanone
Concen: 0.109 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

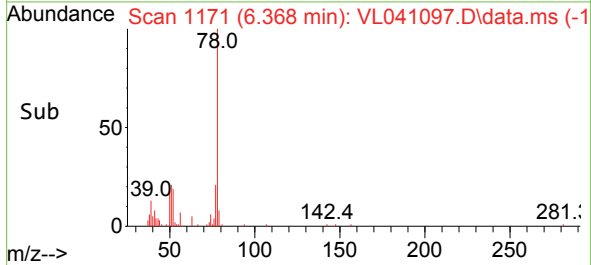
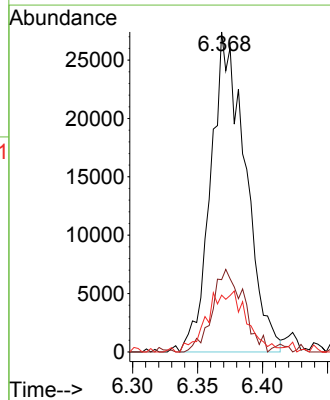
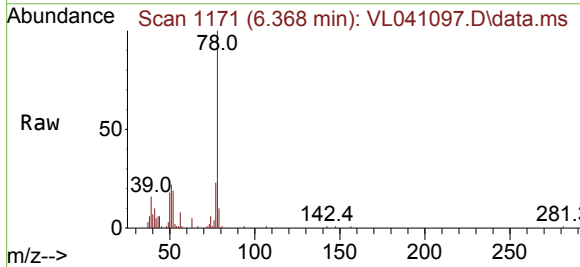
Instrument :
MSVOA_L
ClientSampleId :
IA1

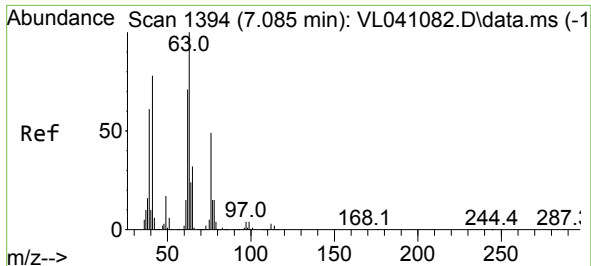
Tgt Ion: 43 Resp: 17093
Ion Ratio Lower Upper
43 100
72 33.7 17.4 26.0#



#36
Benzene
Concen: 0.215 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

Tgt Ion: 78 Resp: 50611
Ion Ratio Lower Upper
78 100
77 22.6 18.8 28.2
50 17.8 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.233 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041097.D

Acq: 12 Mar 2024 13:47

Instrument :

MSVOA_L

ClientSampleId :

IA1

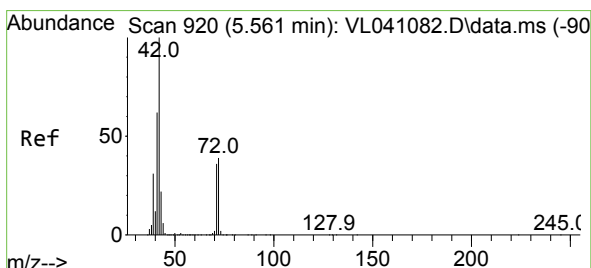
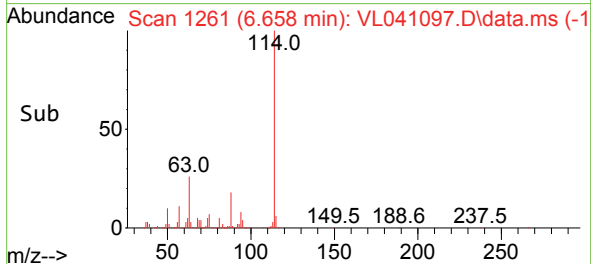
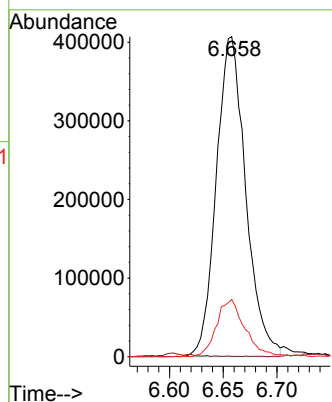
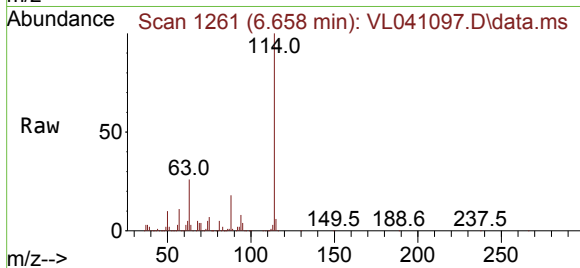
Tgt Ion: 63 Resp: 773546

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 17.8 57.0 85.4#



#41

Tetrahydrofuran

Concen: 5.719 ppbv

RT: 5.214 min Scan# 812

Delta R.T. -0.341 min

Lab File: VL041097.D

Acq: 12 Mar 2024 13:47

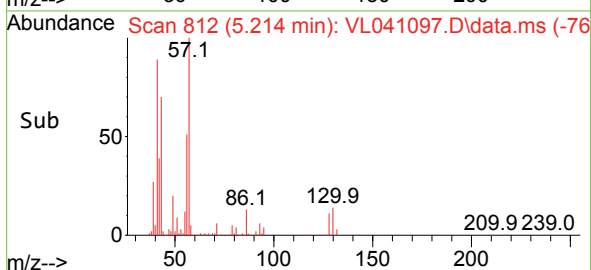
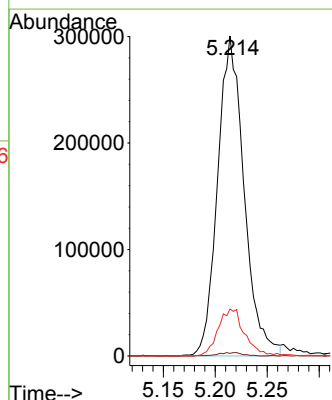
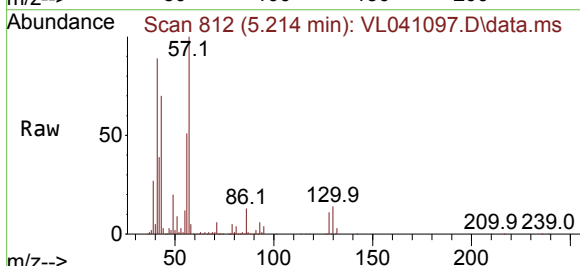
Tgt Ion: 42 Resp: 531784

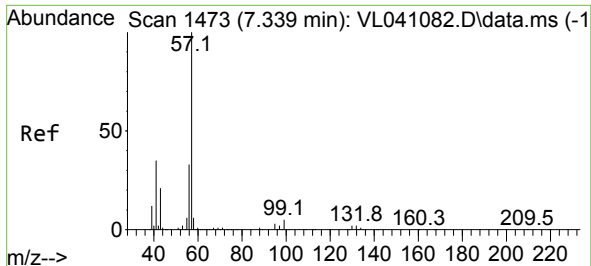
Ion Ratio Lower Upper

42 100

72 1.0 30.7 46.1#

71 15.0 29.6 44.4#

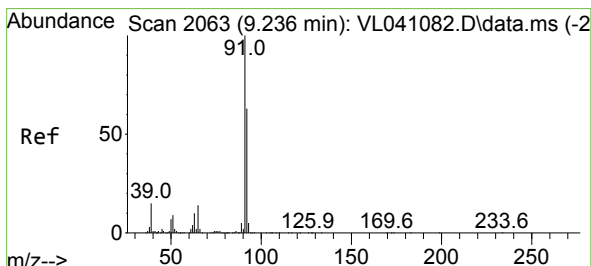
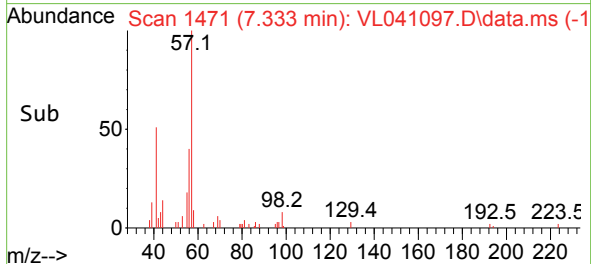
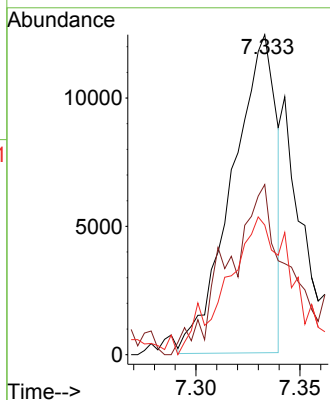
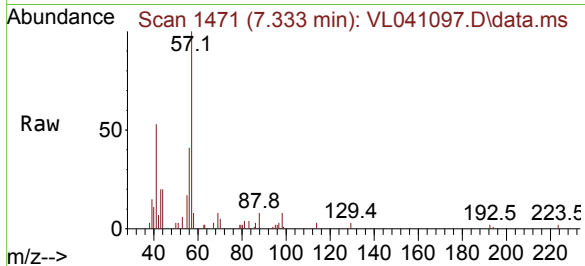




#44
 2,2,4-Trimethylpentane
 Concen: 0.047 ppbv
 RT: 7.333 min Scan# 1473
 Delta R.T. 0.003 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

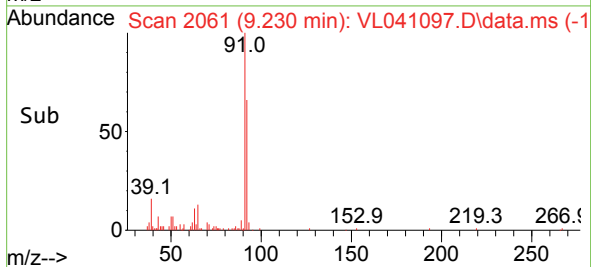
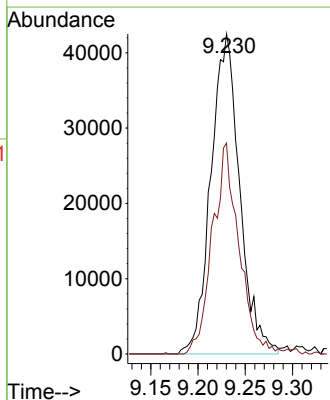
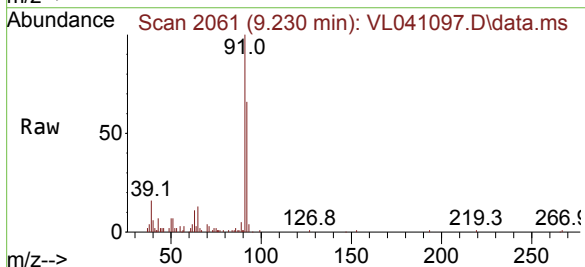
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

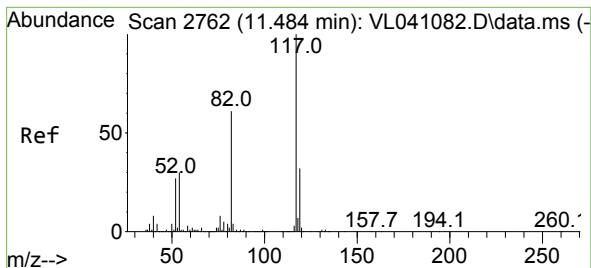
Tgt Ion: 57 Resp: 18277
 Ion Ratio Lower Upper
 57 100
 41 77.7 28.0 42.0#
 56 70.1 25.7 38.5#



#53
 Toluene
 Concen: 0.355 ppbv
 RT: 9.230 min Scan# 2061
 Delta R.T. 0.006 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

Tgt Ion: 91 Resp: 89850
 Ion Ratio Lower Upper
 91 100
 92 61.4 48.9 73.3

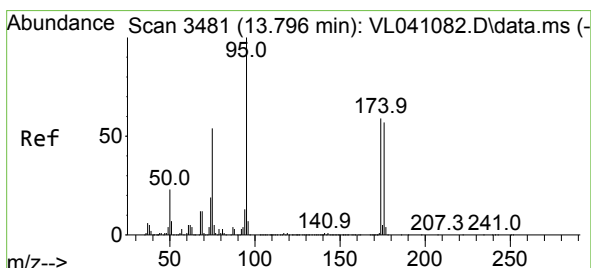
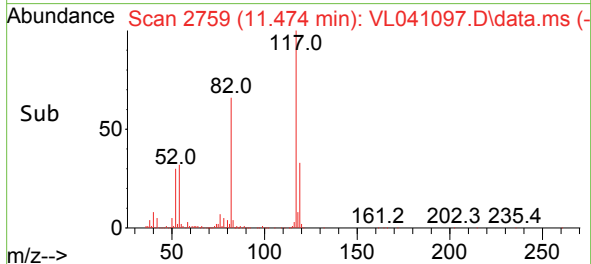
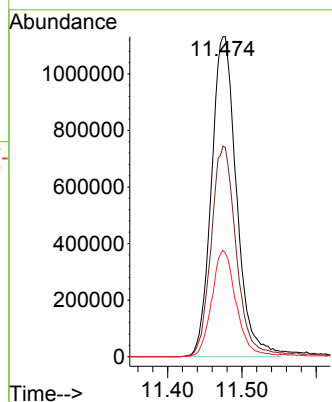
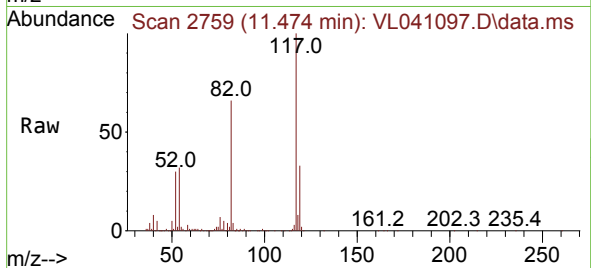




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

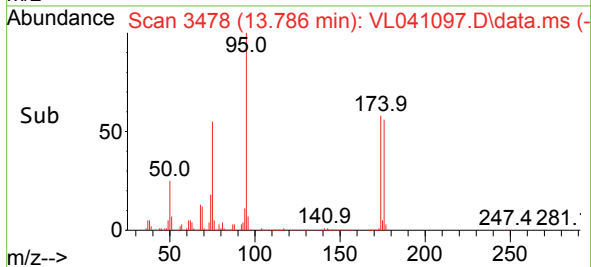
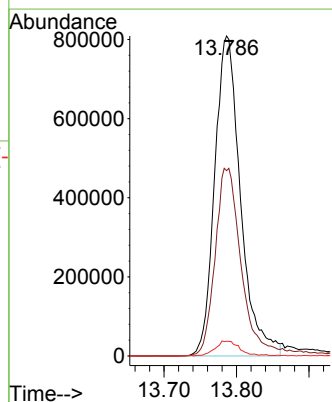
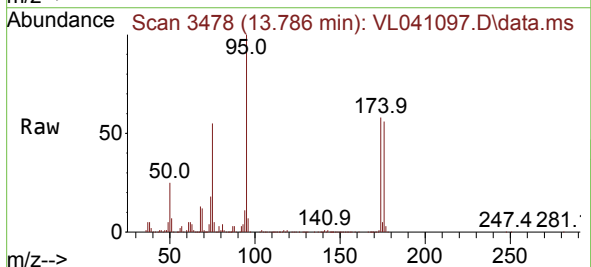
Instrument :
MSVOA_L
ClientSampleId :
IA1

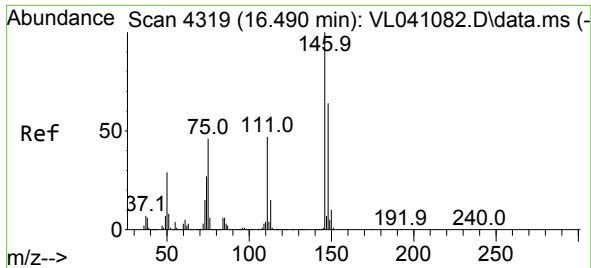
Tgt Ion:117 Resp: 2651040
Ion Ratio Lower Upper
117 100
82 67.8 51.4 77.2
119 32.9 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.685 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL041097.D
Acq: 12 Mar 2024 13:47

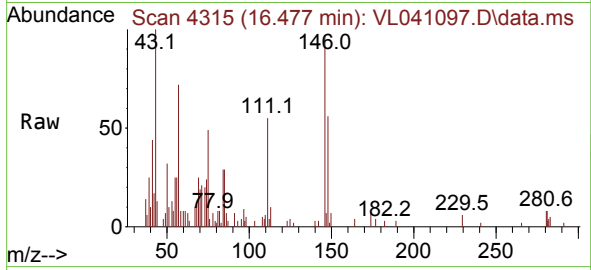
Tgt Ion: 95 Resp: 2007379
Ion Ratio Lower Upper
95 100
174 61.5 47.8 71.8
175 4.6 3.5 5.3





#76
 1,4-Dichlorobenzene
 Concen: 0.033 ppbv
 RT: 16.477 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041097.D
 Acq: 12 Mar 2024 13:47

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:146 Resp: 5411
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.9 71.7#
 148 0.0 32.9 98.6#

