

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040613.D
 Acq On : 9 Aug 2023 19:59
 Operator : SY/MD
 Sample : 03950-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Aug 10 01:31:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

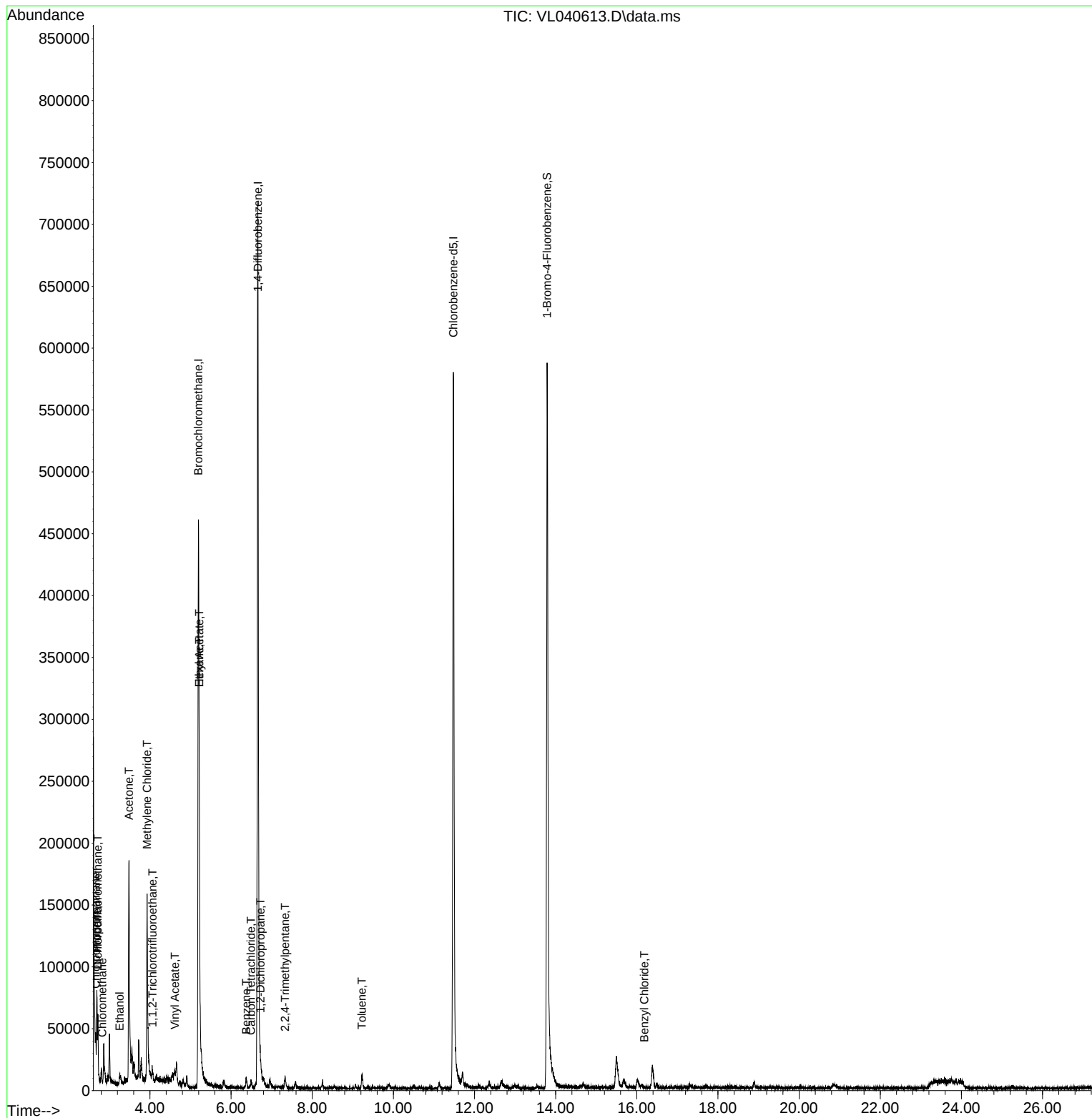
Internal Standards						
1) Bromochloromethane	5.195	49	226630	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	479301	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	347021	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	276224	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	28421	0.627	ppbv	96
3) Chlorodifluoromethane	2.664	51	30733	0.856	ppbv	97
4) Chloromethane	2.825	50	638	0.045	ppbv	94
9) Propene	2.697	41	15285	1.243	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.066	101	844	0.033	ppbv #	1
13) Ethanol	3.253	45	2127	0.795	ppbv #	37
15) Acetone	3.481	43	174450	6.687	ppbv	99
20) Methylene Chloride	3.931	84	49415	4.453	ppbv	89
23) Vinyl Acetate	4.619	43	1176	0.047	ppbv #	20
25) Ethyl Acetate	5.214	43	13923	0.280	ppbv #	74
26) Hexane	5.214	57	28494	1.235	ppbv #	38
35) Carbon Tetrachloride	6.491	117	1970	0.068	ppbv #	48
36) Benzene	6.372	78	5677	0.147	ppbv #	91
39) 1,2-Dichloropropane	6.722	63	2706	0.182	ppbv #	84
44) 2,2,4-Trimethylpentane	7.333	57	3482	0.056	ppbv #	1
53) Toluene	9.224	91	3829	0.091	ppbv #	11
66) Benzyl Chloride	16.185	91	135	0.039	ppbv #	63

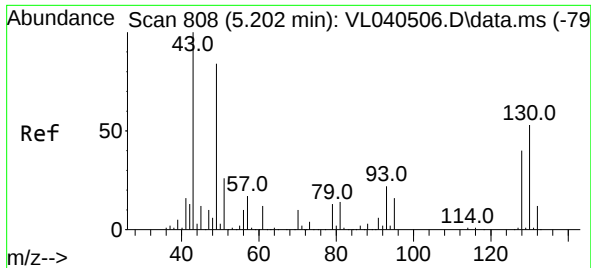
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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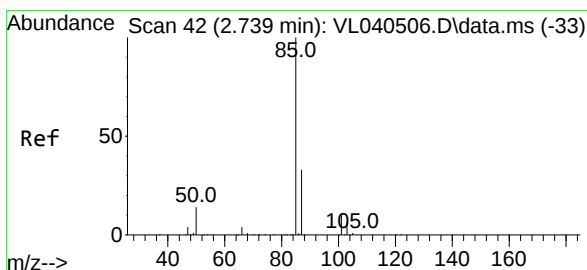
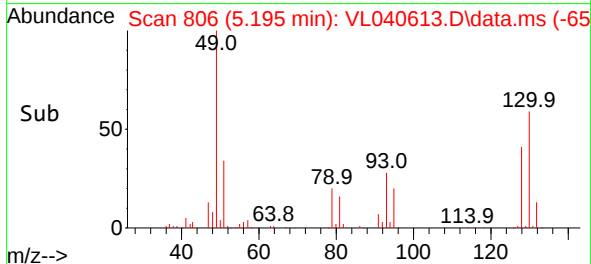
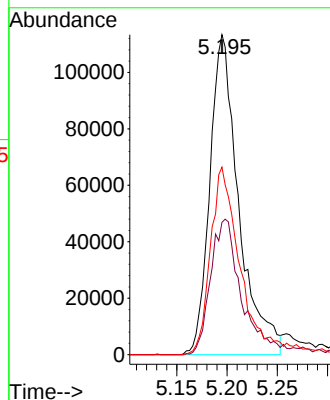
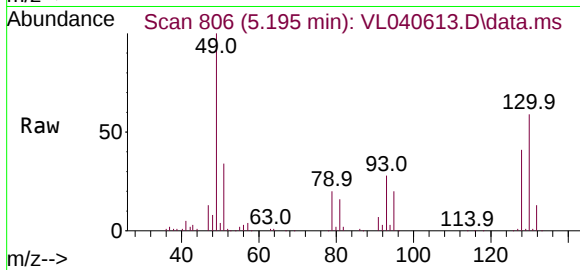




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

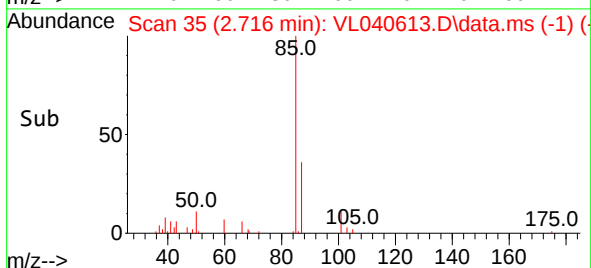
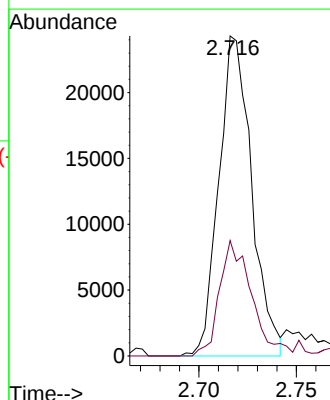
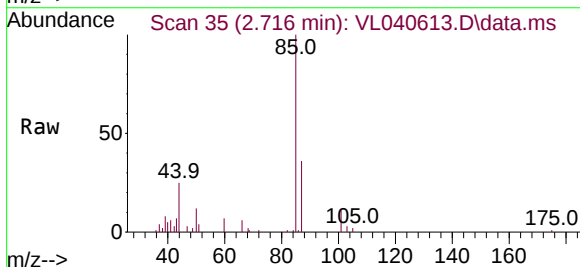
Instrument :
MSVOA_L
ClientSampleId :
IA2

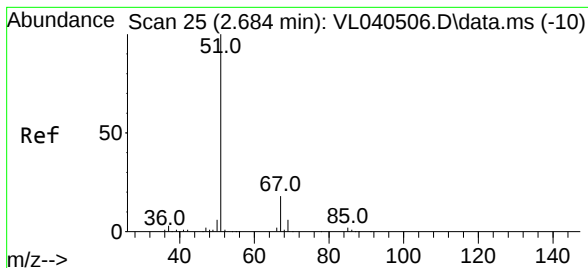
Tgt Ion: 49 Resp: 226630
Ion Ratio Lower Upper
49 100
128 49.1 25.1 75.4
130 62.1 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.627 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.023 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 85 Resp: 28421
Ion Ratio Lower Upper
85 100
87 36.0 26.8 40.2

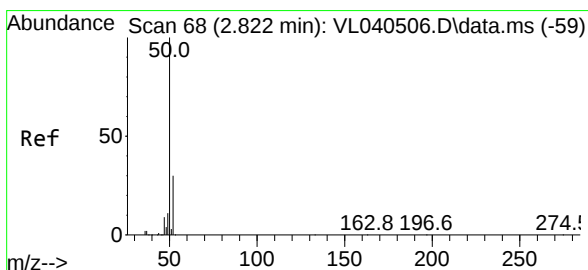
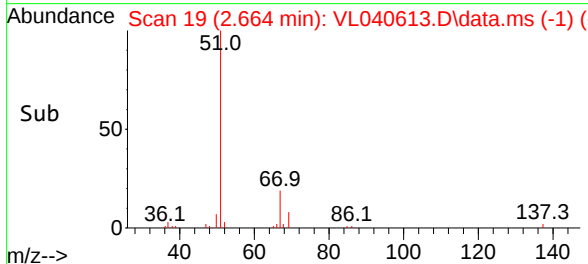
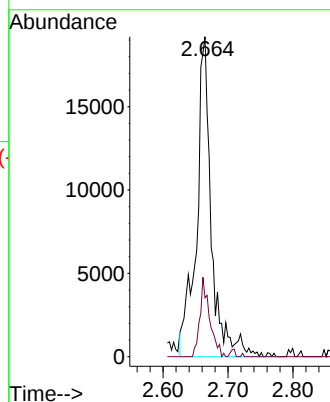
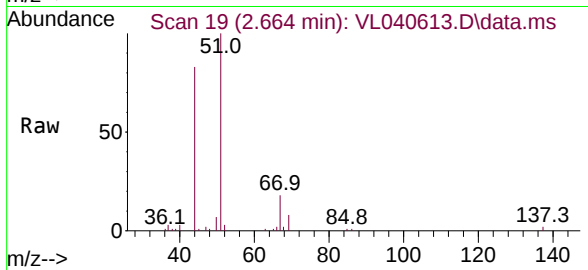




#3
Chlorodifluoromethane
Concen: 0.856 ppbv
RT: 2.664 min Scan# 19
Delta R.T. -0.019 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

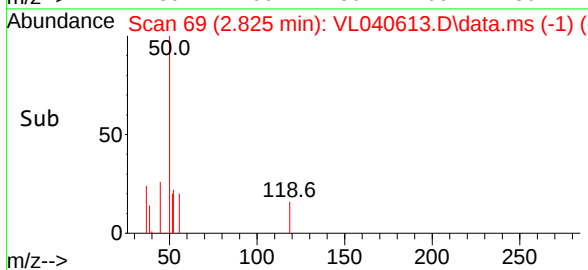
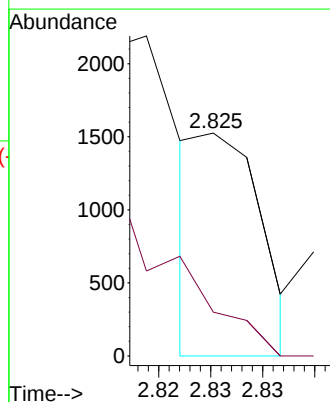
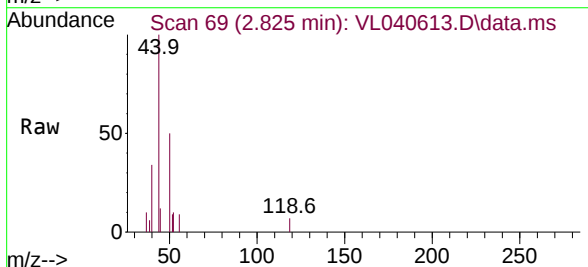
Instrument :
MSVOA_L
ClientSampleId :
IA2

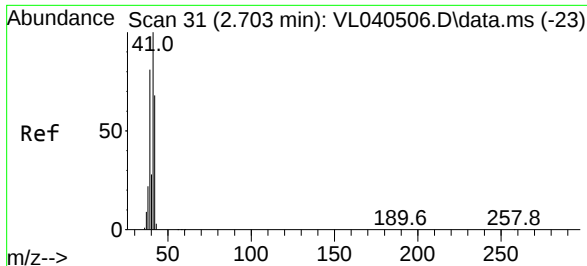
Tgt Ion: 51 Resp: 30733
Ion Ratio Lower Upper
51 100
67 17.0 14.6 21.8



#4
Chloromethane
Concen: 0.045 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.003 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 50 Resp: 638
Ion Ratio Lower Upper
50 100
52 27.2 24.4 36.6





#9

Propene

Concen: 1.243 ppbv

RT: 2.697 min Scan# 29

Delta R.T. -0.007 min

Lab File: VL040613.D

Acq: 9 Aug 2023 19:59

Instrument :

MSVOA_L

ClientSampleId :

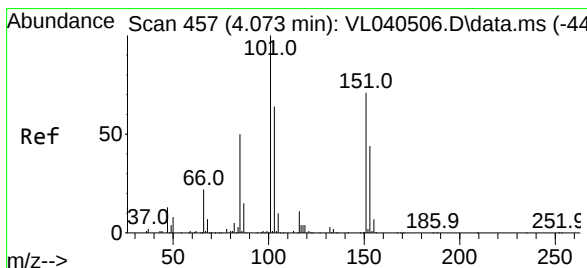
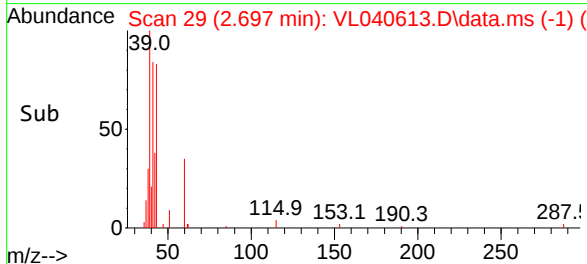
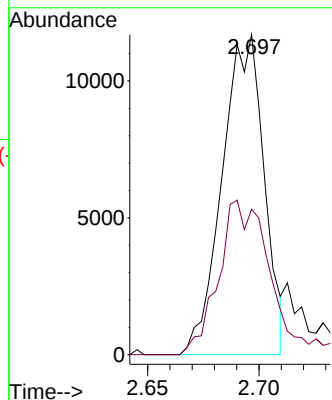
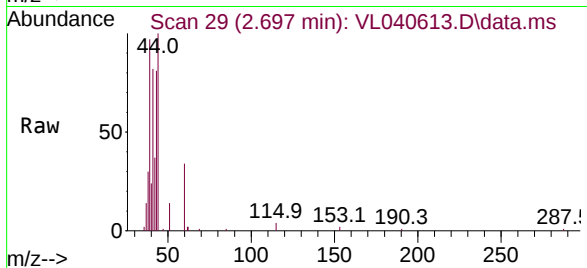
IA2

Tgt Ion: 41 Resp: 15285

Ion Ratio Lower Upper

41 100

42 64.0 55.0 82.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.066 min Scan# 455

Delta R.T. -0.007 min

Lab File: VL040613.D

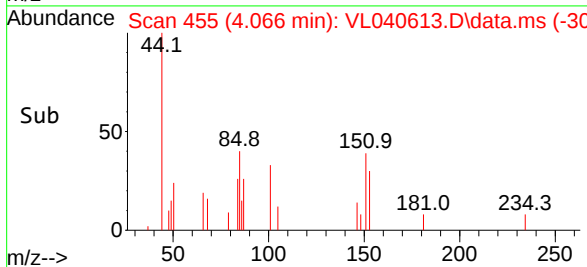
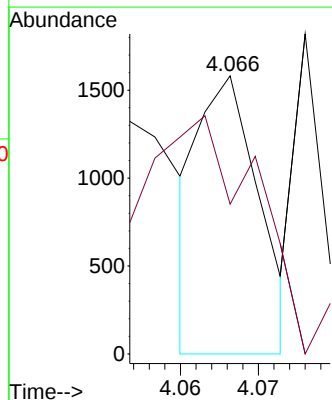
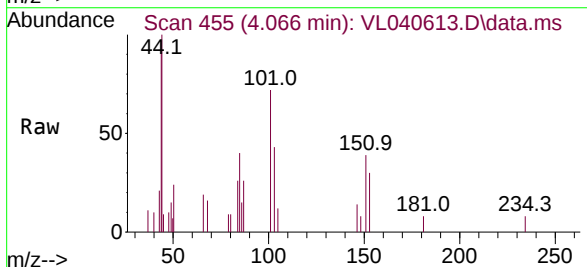
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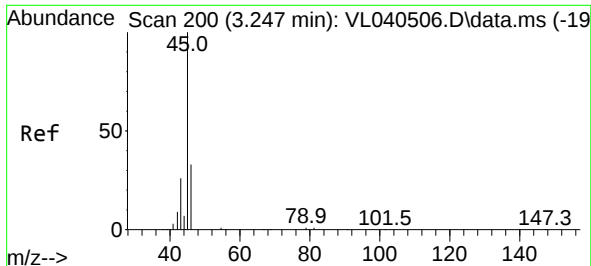
Tgt Ion: 101 Resp: 844

Ion Ratio Lower Upper

101 100

151 197.4 58.2 87.4#

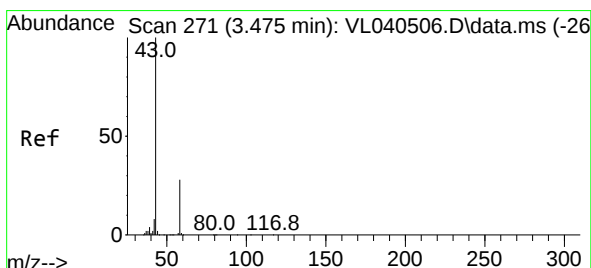
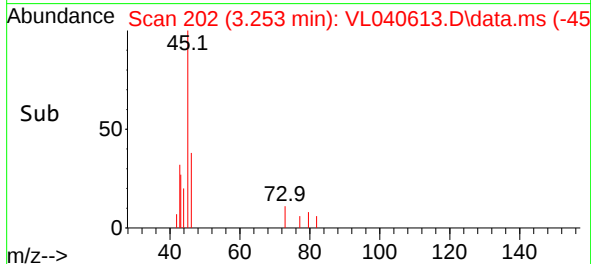
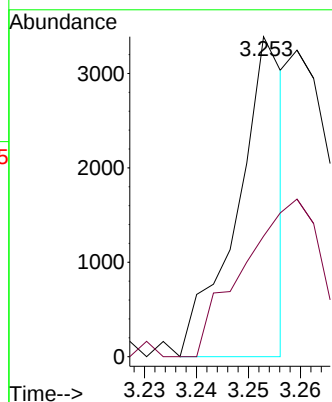
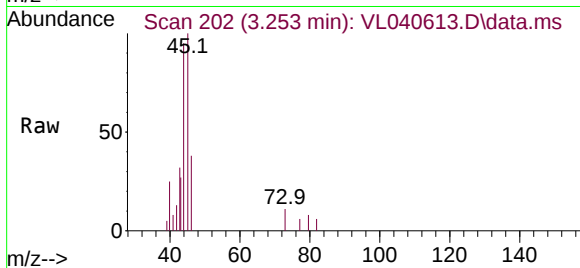




#13
Ethanol
Concen: 0.795 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

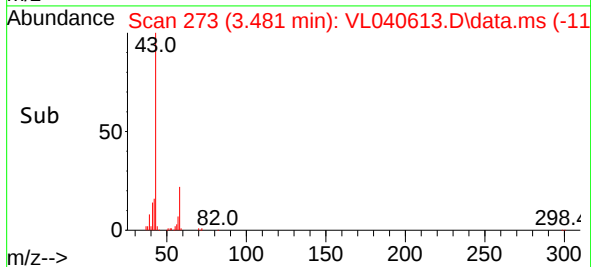
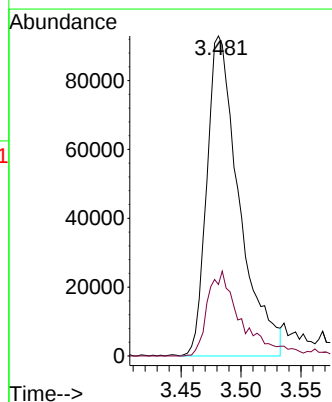
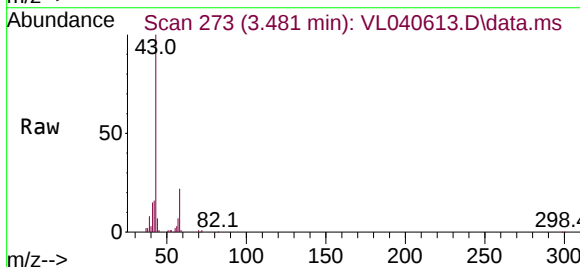
Instrument :
MSVOA_L
ClientSampleId :
IA2

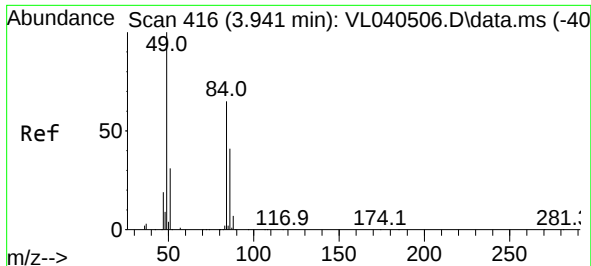
Tgt Ion: 45 Resp: 2127
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#



#15
Acetone
Concen: 6.687 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.006 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 43 Resp: 174450
Ion Ratio Lower Upper
43 100
58 29.0 22.9 34.3



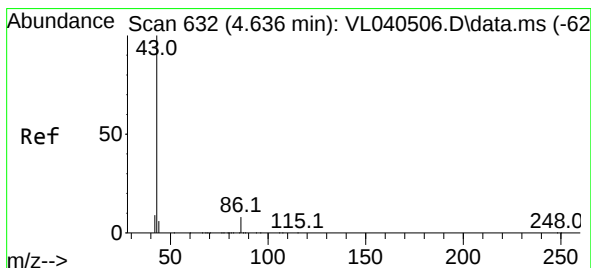
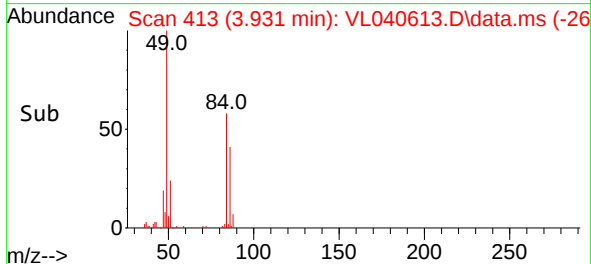
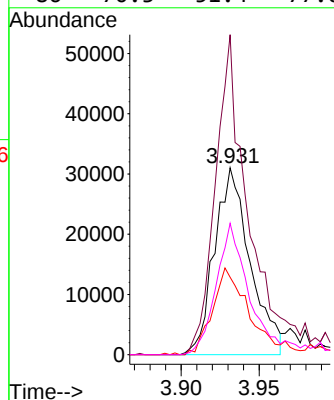
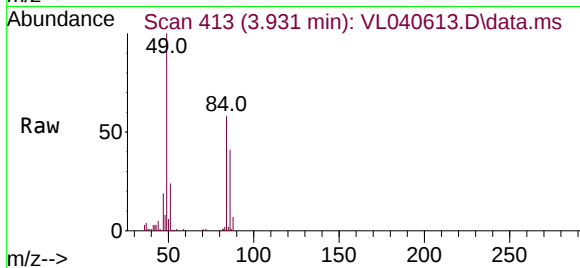


#20
Methylene Chloride
Concen: 4.453 ppbv
RT: 3.931 min Scan# 416
Delta R.T. -0.010 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 84 Resp: 49415

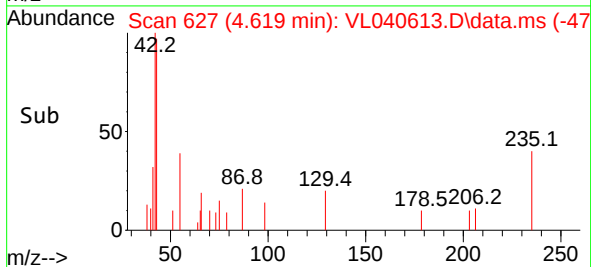
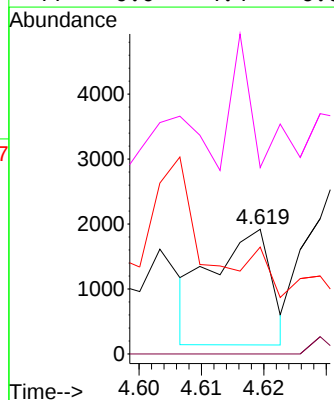
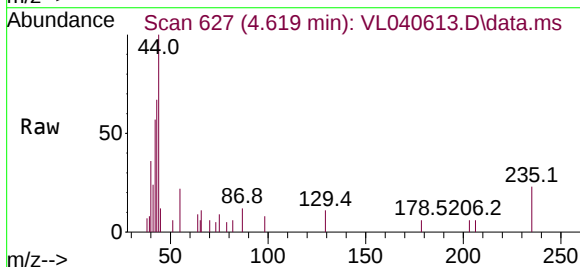
Ion	Ratio	Lower	Upper
84	100		
49	171.2	123.4	185.2
51	41.4	38.3	57.5
86	70.3	51.4	77.0

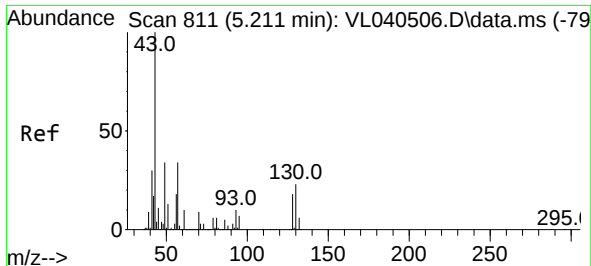


#23
Vinyl Acetate
Concen: 0.047 ppbv
RT: 4.619 min Scan# 627
Delta R.T. -0.016 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 43 Resp: 1176

Ion	Ratio	Lower	Upper
43	100		
86	25.9	5.6	8.4#
42	58.8	7.4	11.2#
44	0.0	4.4	6.6#

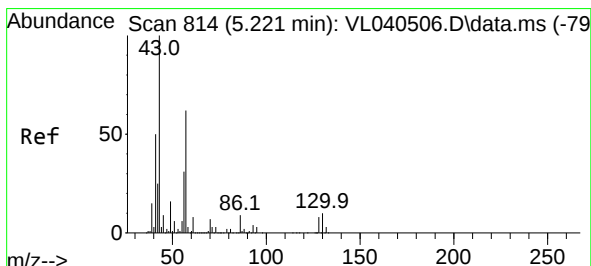
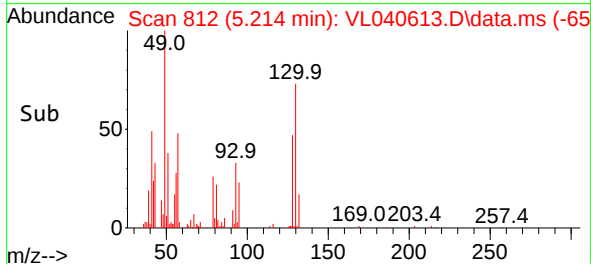
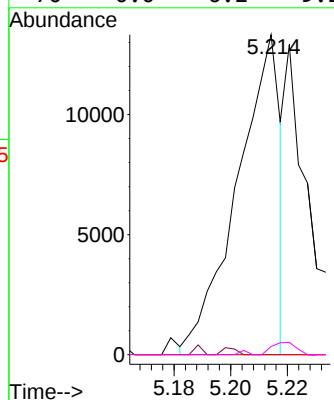
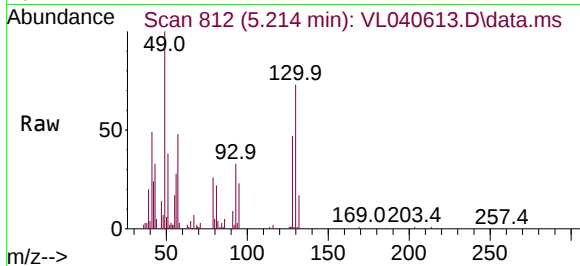




#25
Ethyl Acetate
Concen: 0.280 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

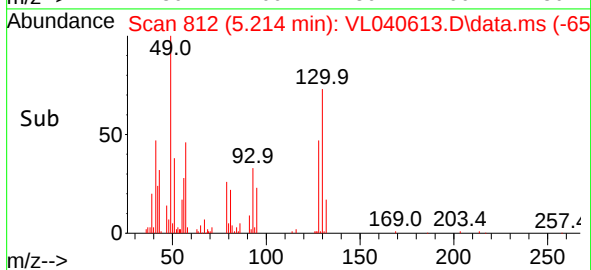
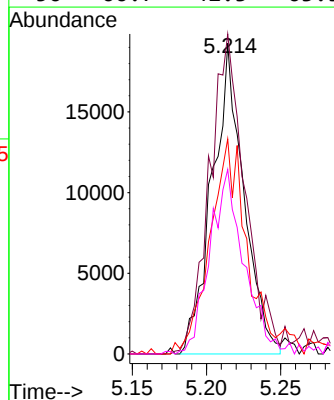
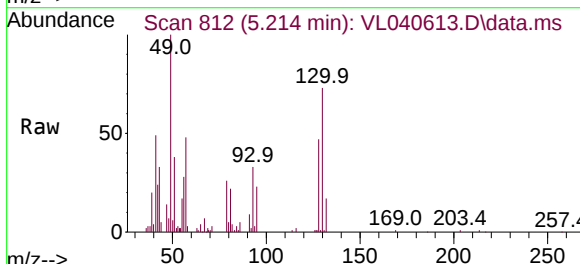
Instrument :
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IA2

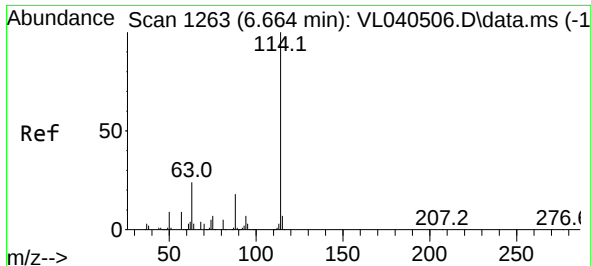
Tgt Ion: 43	Resp: 13923
Ion Ratio	Lower Upper
43	100
45	0.0 8.2 12.4#
61	0.0 8.3 12.5#
70	0.0 6.2 9.2#



#26
Hexane
Concen: 1.235 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.007 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 57	Resp: 28494
Ion Ratio	Lower Upper
57	100
41	116.8 69.5 104.3#
43	87.4 177.1 265.7#
56	66.7 42.3 63.5#

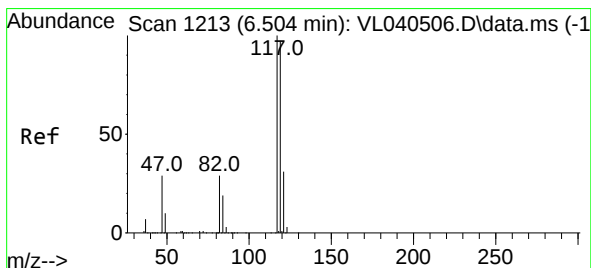
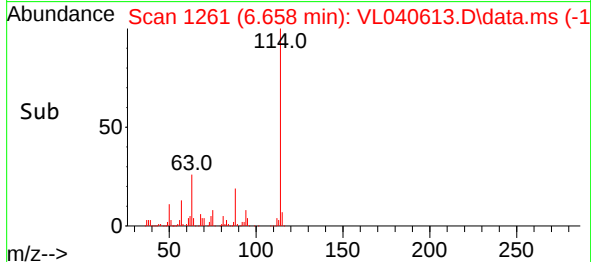
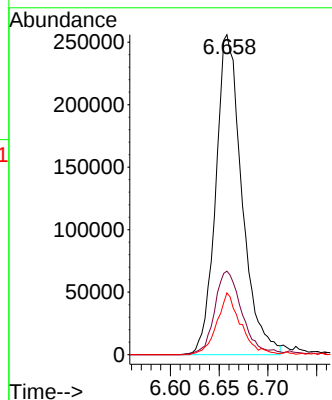
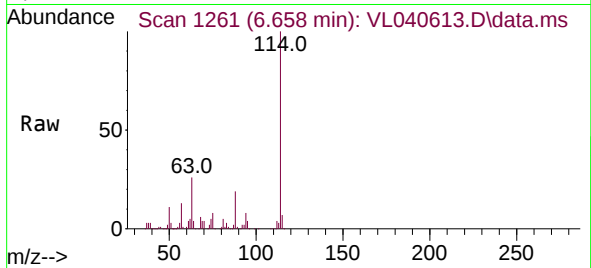




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

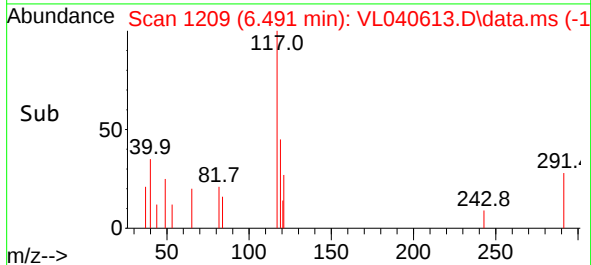
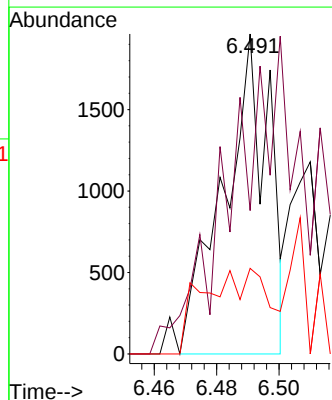
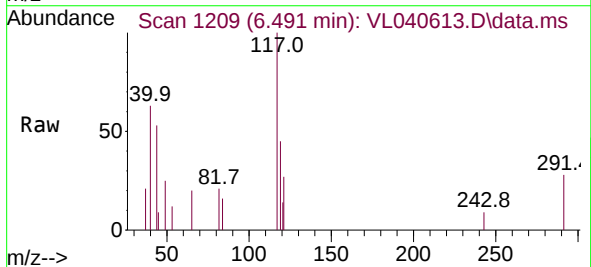
Instrument :
MSVOA_L
ClientSampleId :
IA2

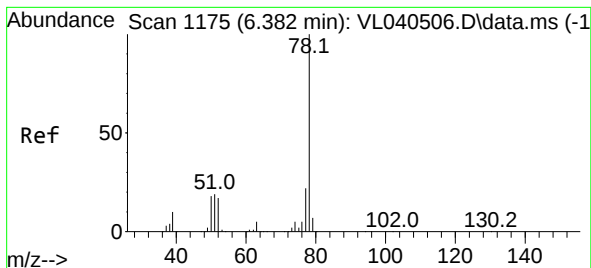
Tgt Ion:114 Resp: 479301
Ion Ratio Lower Upper
114 100
63 28.5 19.6 29.4
88 18.3 14.2 21.2



#35
Carbon Tetrachloride
Concen: 0.068 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.013 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion:117 Resp: 1970
Ion Ratio Lower Upper
117 100
119 32.8 77.8 116.6#
121 26.7 24.8 37.2





#36

Benzene

Concen: 0.147 ppbv

RT: 6.372 min Scan# 1175

Delta R.T. -0.010 min

Lab File: VL040613.D

Acq: 9 Aug 2023 19:59

Instrument :

MSVOA_L

ClientSampleId :

IA2

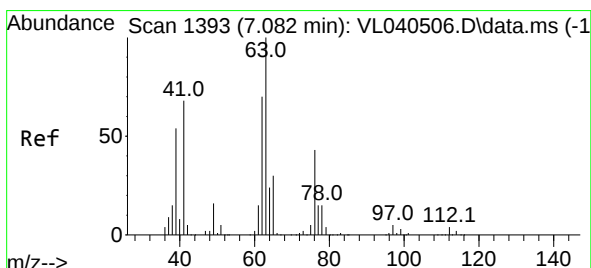
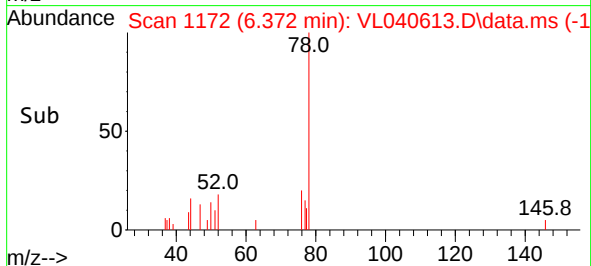
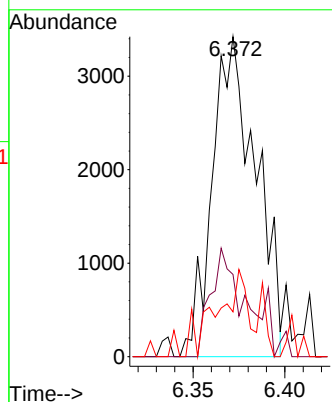
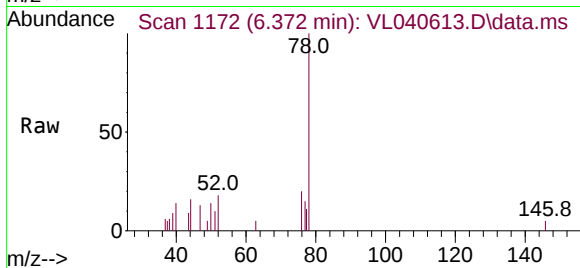
Tgt Ion: 78 Resp: 5677

Ion Ratio Lower Upper

78 100

77 25.7 17.4 26.0

50 14.0 14.4 21.6#



#39

1,2-Dichloropropane

Concen: 0.182 ppbv

RT: 6.722 min Scan# 1281

Delta R.T. -0.360 min

Lab File: VL040613.D

Acq: 9 Aug 2023 19:59

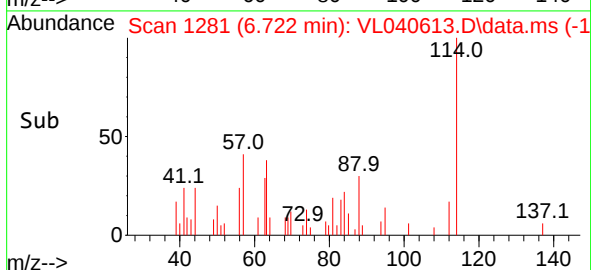
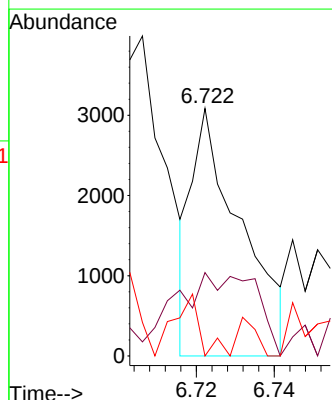
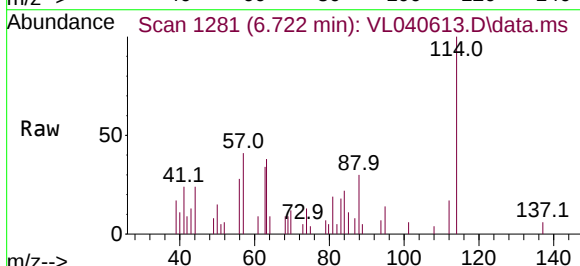
Tgt Ion: 63 Resp: 2706

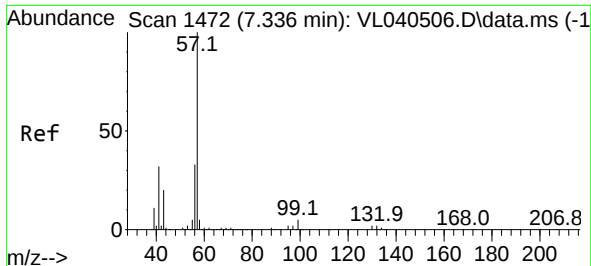
Ion Ratio Lower Upper

63 100

41 46.6 54.3 81.5#

62 65.4 55.6 83.4

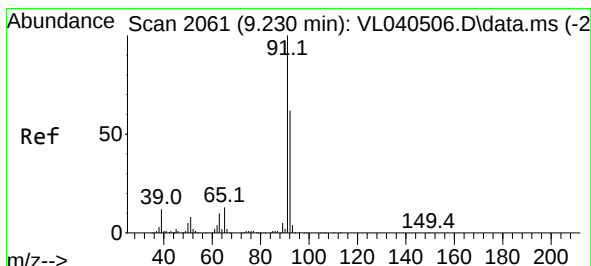
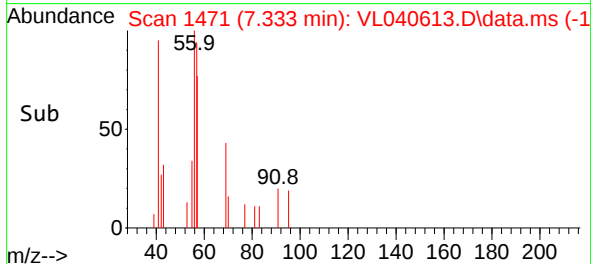
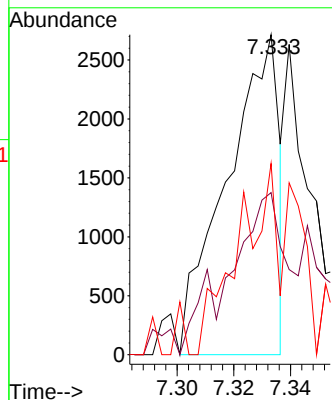
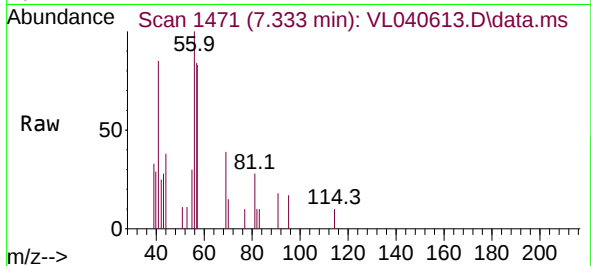




#44
2,2,4-Trimethylpentane
Concen: 0.056 ppbv
RT: 7.333 min Scan# 1472
Delta R.T. -0.003 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

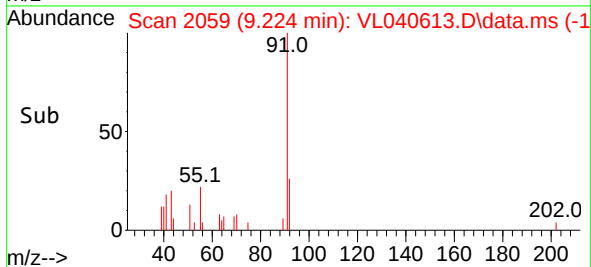
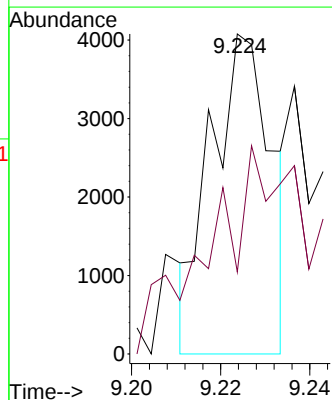
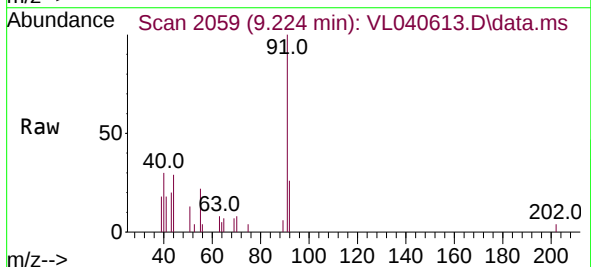
Instrument :
MSVOA_L
ClientSampleId :
IA2

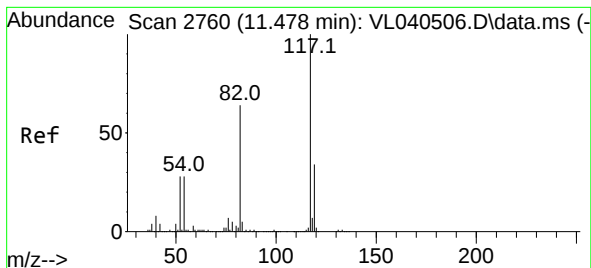
Tgt Ion: 57 Resp: 3482
Ion Ratio Lower Upper
57 100
41 89.2 25.5 38.3#
56 84.8 25.1 37.7#



#53
Toluene
Concen: 0.091 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. -0.007 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 91 Resp: 3829
Ion Ratio Lower Upper
91 100
92 129.7 49.1 73.7#

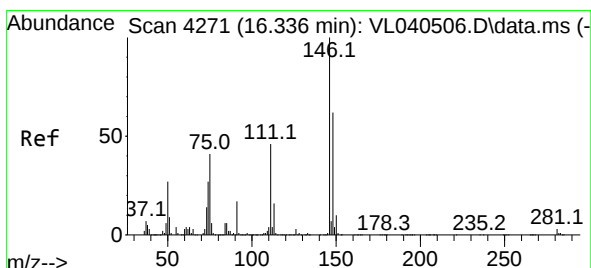
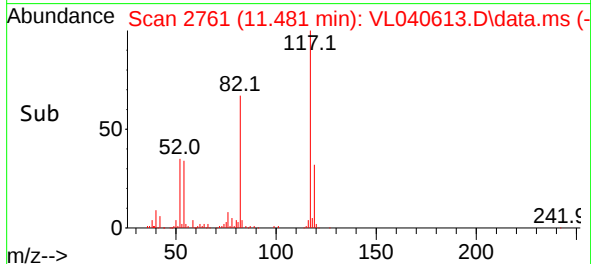
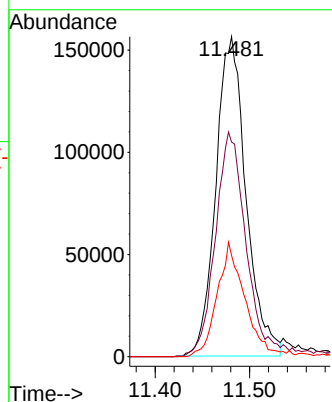
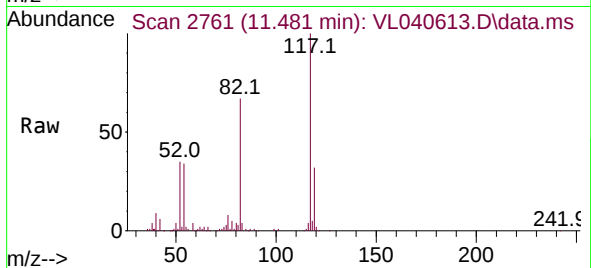




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

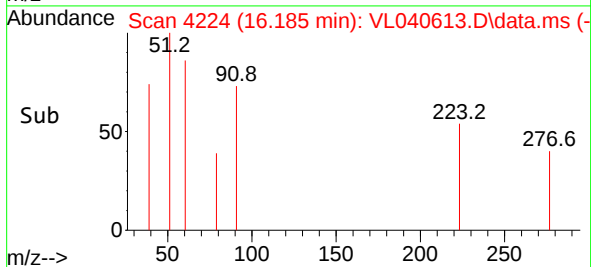
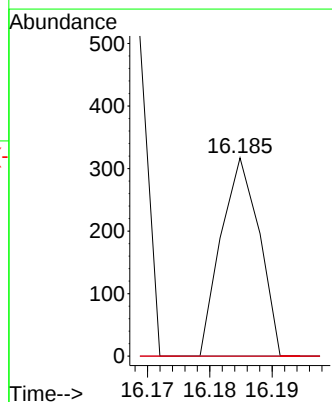
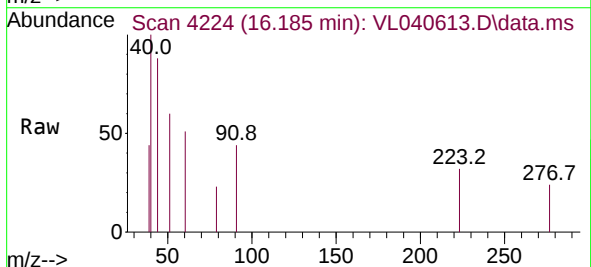
Instrument :
MSVOA_L
ClientSampleId :
IA2

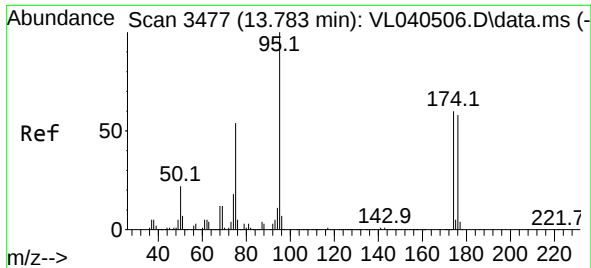
Tgt Ion:117 Resp: 347021
Ion Ratio Lower Upper
117 100
82 74.4 50.2 75.4
119 33.5 26.9 40.3



#66
Benzyl Chloride
Concen: 0.039 ppbv
RT: 16.185 min Scan# 4224
Delta R.T. -0.151 min
Lab File: VL040613.D
Acq: 9 Aug 2023 19:59

Tgt Ion: 91 Resp: 135
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.2#
128 0.0 4.5 6.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.058 ppbv
 RT: 13.789 min Scan# 3479
 Delta R.T. 0.006 min
 Lab File: VL040613.D
 Acq: 9 Aug 2023 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion: 95 Resp: 276224
 Ion Ratio Lower Upper
 95 100
 174 61.1 50.6 75.8
 175 3.9 3.7 5.5

