

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040519.D
 Acq On : 10 Jul 2023 23:18
 Operator : SY/MD
 Sample : 03535-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jul 11 02:11:21 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)

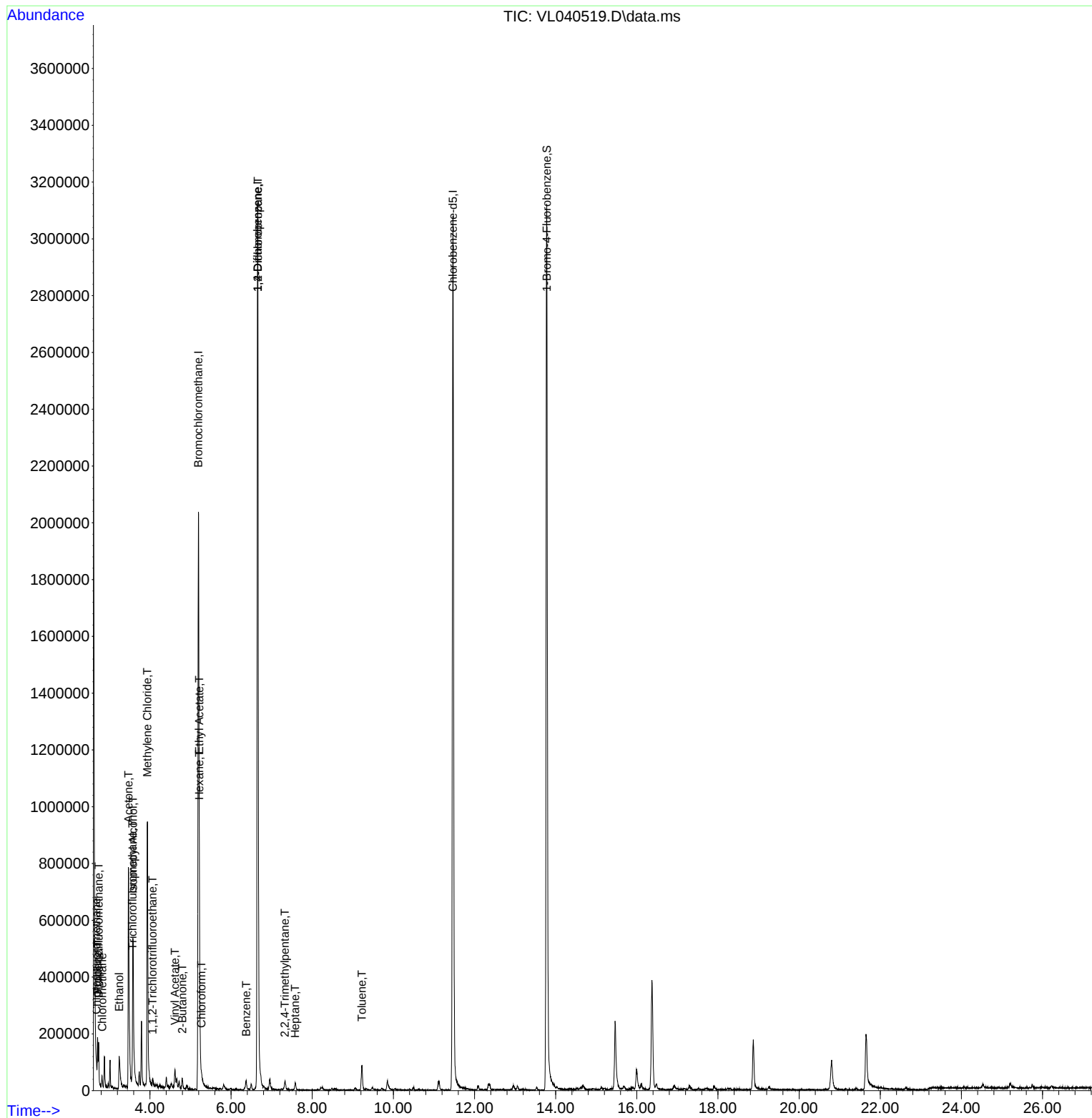
Internal Standards								
1) Bromochloromethane			5.195	49	894013	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			6.655	114	2251669	10.000	ppbv	0.00
55) Chlorobenzene-d5			11.468	117	1865520	10.000	ppbv	0.00
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.780	95	1499017	10.153	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	101.500%	
Target Compounds								
								Qvalue
2) Dichlorodifluoromethane			2.735	85	90506	0.506	ppbv	96
3) Chlorodifluoromethane			2.677	51	43759	0.309	ppbv	99
4) Chloromethane			2.822	50	31248	0.557	ppbv	98
9) Propene			2.713	41	29708	0.612	ppbv	85
10) Heptane			7.581	43	5388	0.050	ppbv #	62
11) Trichlorofluoromethane			3.571	101	35901	0.249	ppbv	84
12) 1,1,2-Trichlorotrifluo...			4.066	101	5871	0.058	ppbv #	75
13) Ethanol			3.243	45	142474	13.498	ppbv	97
15) Acetone			3.472	43	781217	7.591	ppbv	99
19) Isopropyl Alcohol			3.581	45	550896	9.325	ppbv #	96
20) Methylene Chloride			3.938	84	311442	7.115	ppbv	98
23) Vinyl Acetate			4.619	43	35705	0.364	ppbv #	79
25) Ethyl Acetate			5.214	43	119547	0.610	ppbv #	81
26) Hexane			5.217	57	158534	1.742	ppbv #	41
29) Chloroform			5.272	83	5242	0.035	ppbv	99
34) 2-Butanone			4.796	43	36119	0.325	ppbv	94
36) Benzene			6.375	78	16935	0.093	ppbv #	88
39) 1,2-Dichloropropane			6.658	63	580631	8.325	ppbv #	27
44) 2,2,4-Trimethylpentane			7.324	57	9085	0.031	ppbv #	43
53) Toluene			9.221	91	28225	0.143	ppbv #	20

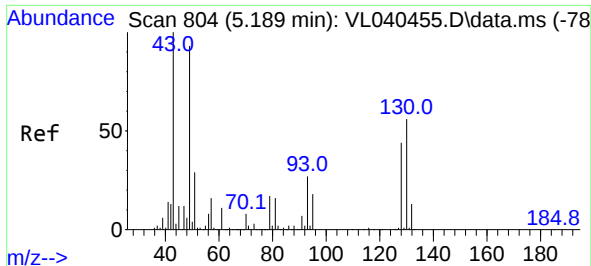
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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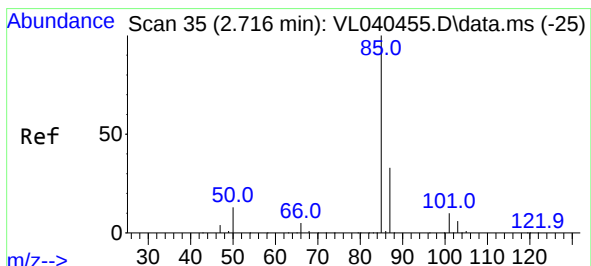
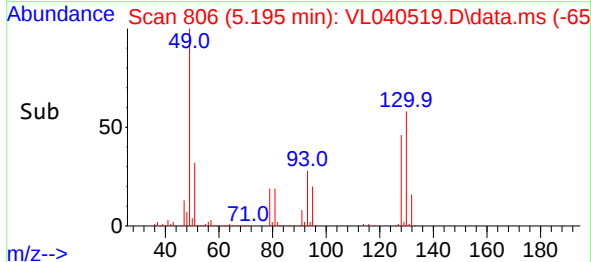
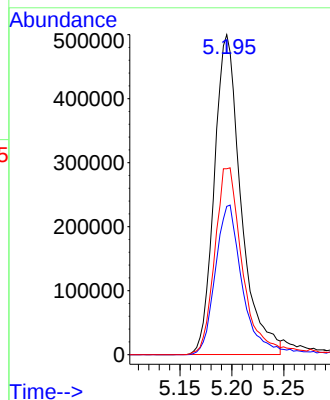
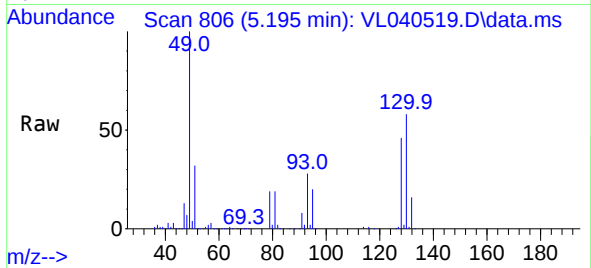




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

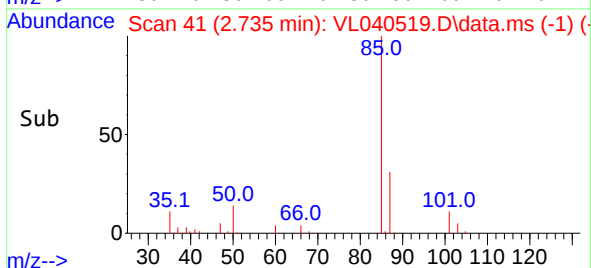
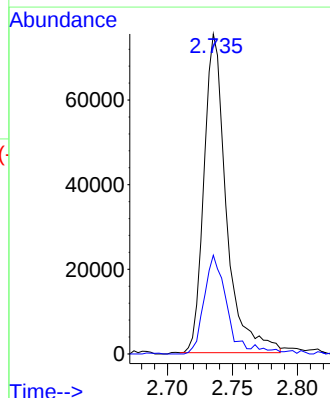
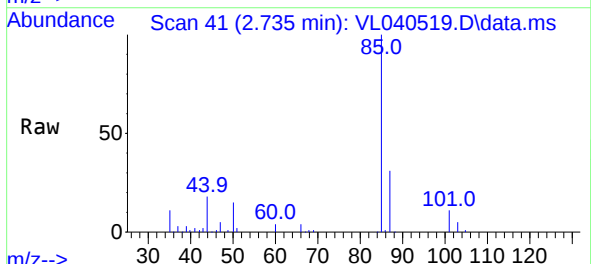
Instrument :
MSVOA_L
ClientSampleId :
OA1

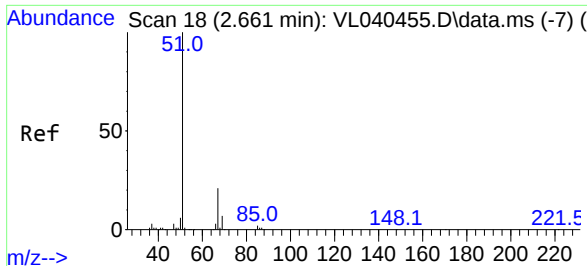
Tgt Ion: 49 Resp: 894013
Ion Ratio Lower Upper
49 100
128 49.4 25.1 75.4
130 63.1 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.506 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 85 Resp: 90506
Ion Ratio Lower Upper
85 100
87 31.0 26.8 40.2

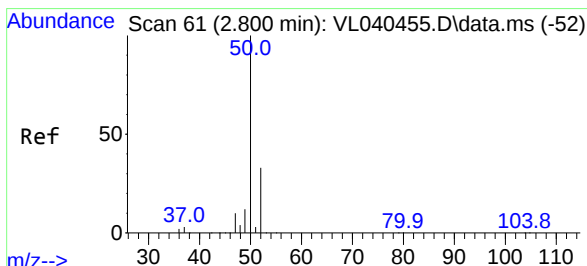
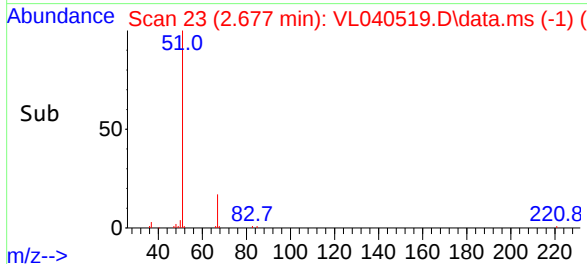
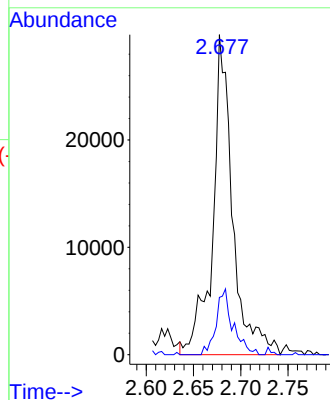
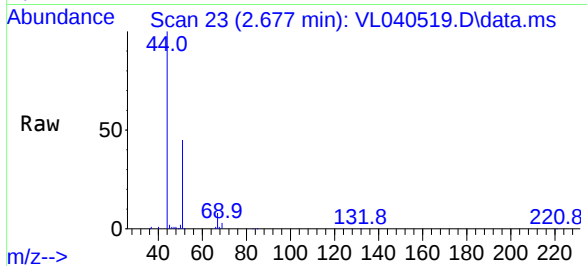




#3
Chlorodifluoromethane
Concen: 0.309 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

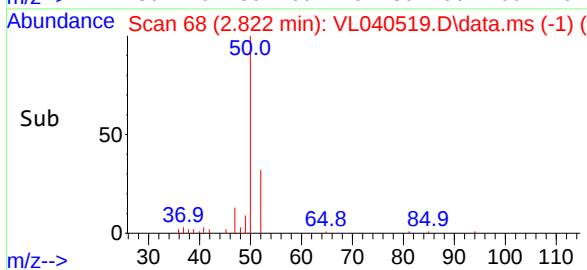
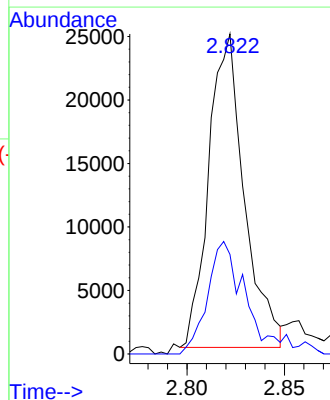
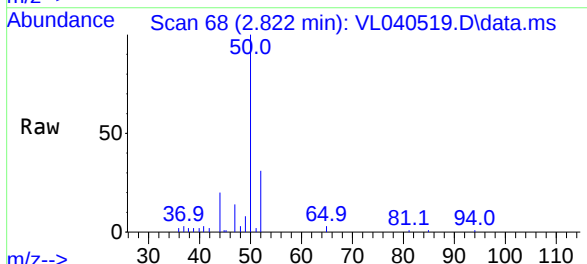
Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 43759
Ion Ratio Lower Upper
51 100
67 17.6 14.6 21.8

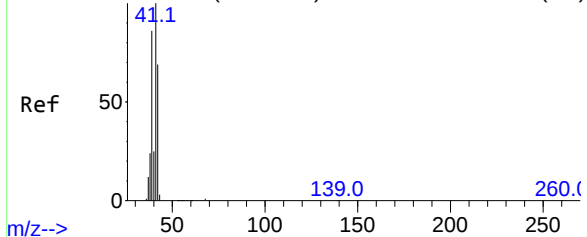


#4
Chloromethane
Concen: 0.557 ppbv
RT: 2.822 min Scan# 68
Delta R.T. -0.000 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 50 Resp: 31248
Ion Ratio Lower Upper
50 100
52 31.7 24.4 36.6



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 0.612 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL040519.D

Acq: 10 Jul 2023 23:18

Instrument :

MSVOA_L

ClientSampleId :

OA1

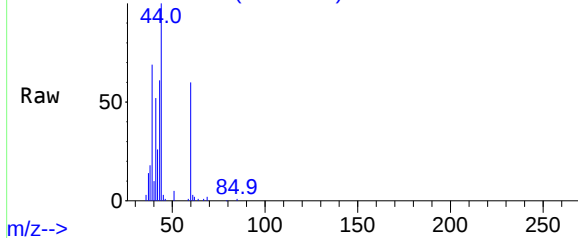
Tgt Ion: 41 Resp: 29708

Ion Ratio Lower Upper

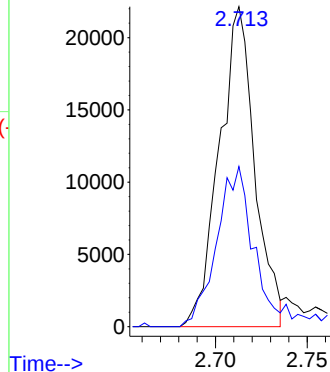
41 100

42 56.3 55.0 82.6

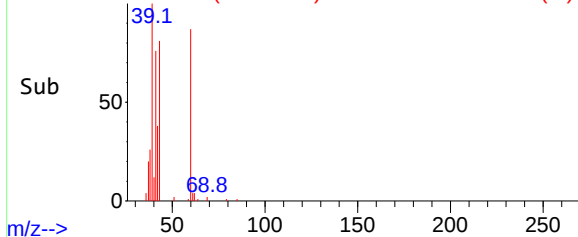
Abundance Scan 34 (2.713 min): VL040519.D\data.ms



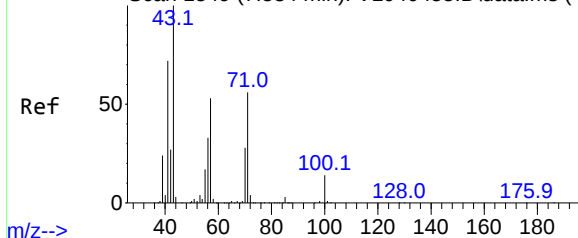
Abundance



Abundance Scan 34 (2.713 min): VL040519.D\data.ms (-1)



Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



#10

Heptane

Concen: 0.050 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.010 min

Lab File: VL040519.D

Acq: 10 Jul 2023 23:18

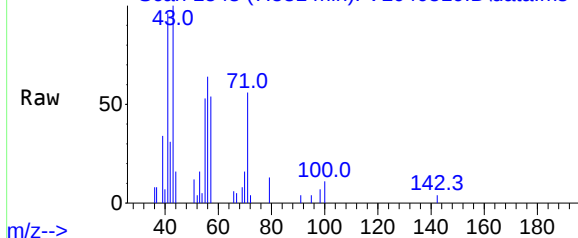
Tgt Ion: 43 Resp: 5388

Ion Ratio Lower Upper

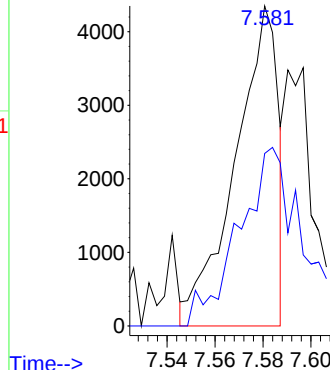
43 100

57 80.2 42.5 63.7#

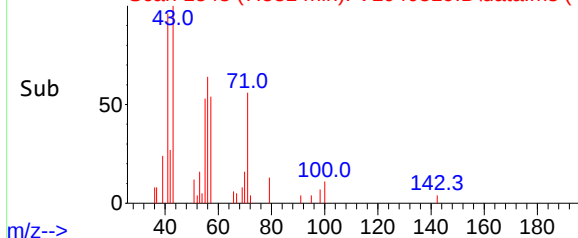
Abundance Scan 1548 (7.581 min): VL040519.D\data.ms

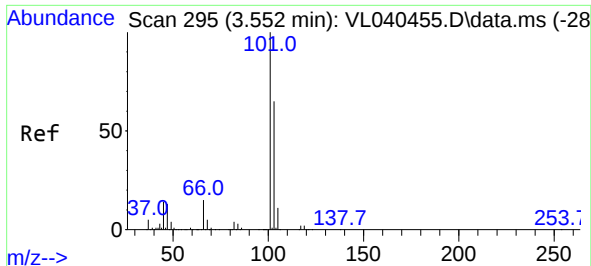


Abundance



Abundance Scan 1548 (7.581 min): VL040519.D\data.ms (-1)

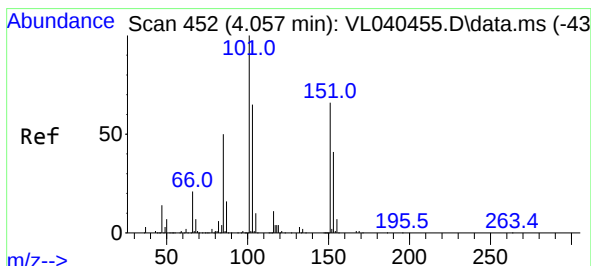
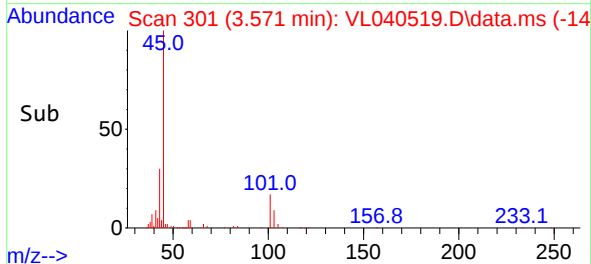
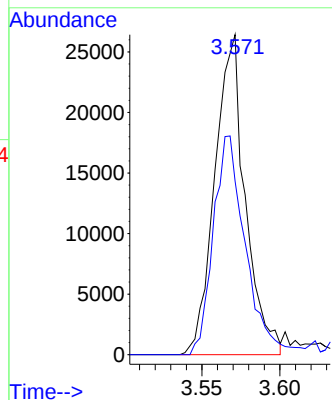
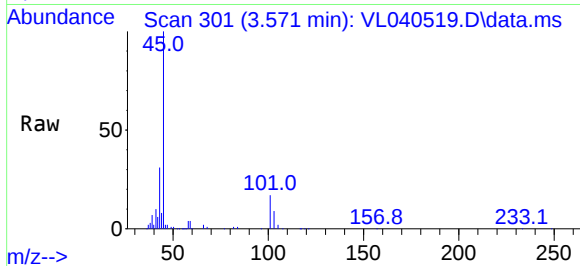




#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 3.571 min Scan# 301
Delta R.T. -0.000 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

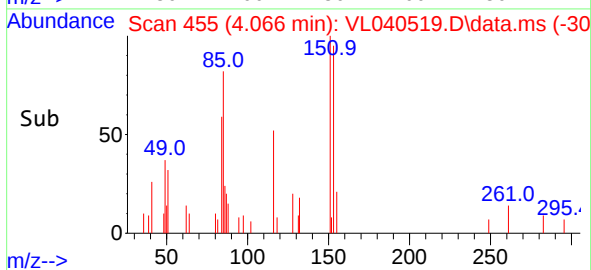
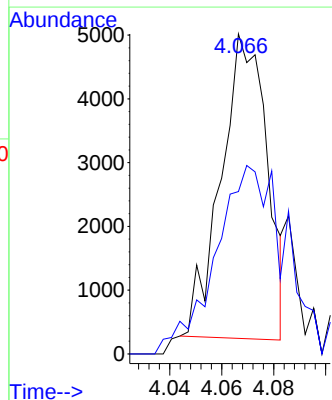
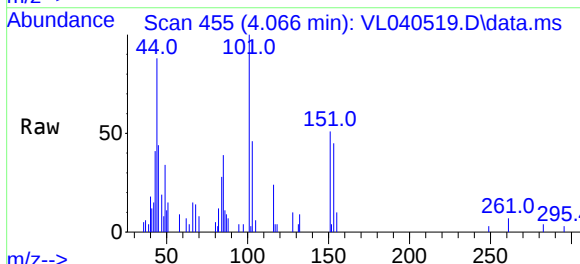
Instrument :
MSVOA_L
ClientSampleId :
OA1

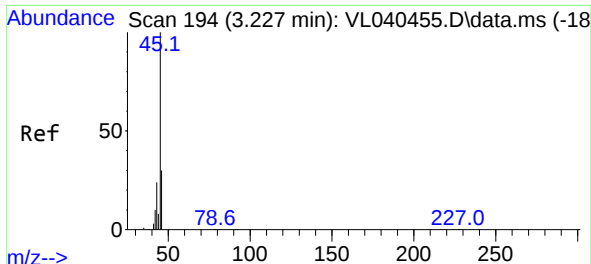
Tgt Ion:101 Resp: 35901
Ion Ratio Lower Upper
101 100
103 54.2 53.4 80.0



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.058 ppbv
RT: 4.066 min Scan# 455
Delta R.T. -0.007 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion:101 Resp: 5871
Ion Ratio Lower Upper
101 100
151 94.1 58.2 87.4#





#13

Ethanol

Concen: 13.498 ppbv

RT: 3.243 min Scan# 19

Delta R.T. -0.003 min

Lab File: VL040519.D

Acq: 10 Jul 2023 23:18

Instrument :

MSVOA_L

ClientSampleId :

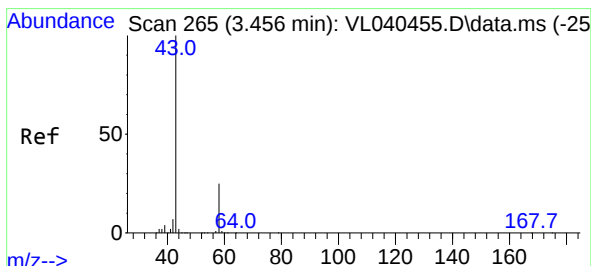
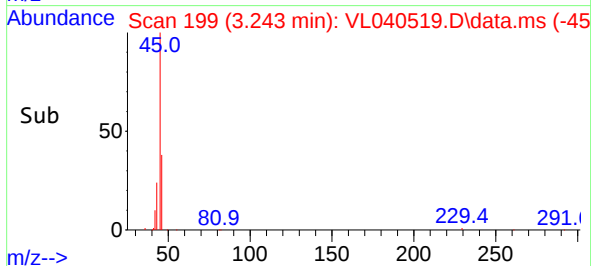
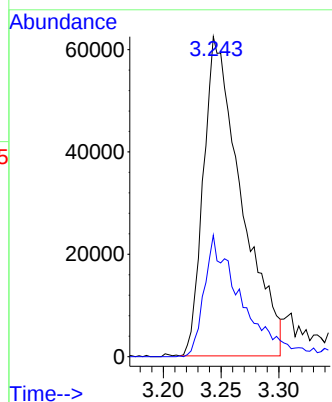
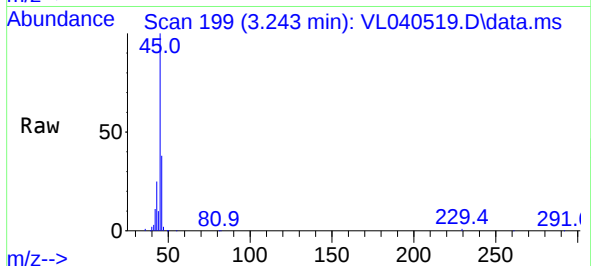
OA1

Tgt Ion: 45 Resp: 142474

Ion Ratio Lower Upper

45 100

46 39.8 15.3 61.1



#15

Acetone

Concen: 7.591 ppbv

RT: 3.472 min Scan# 270

Delta R.T. -0.003 min

Lab File: VL040519.D

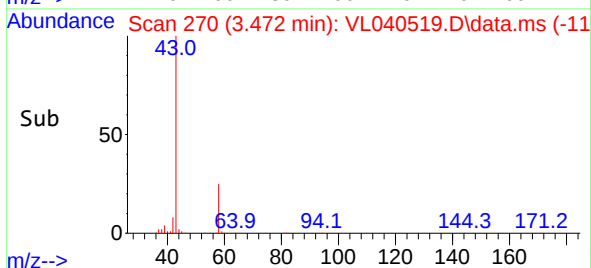
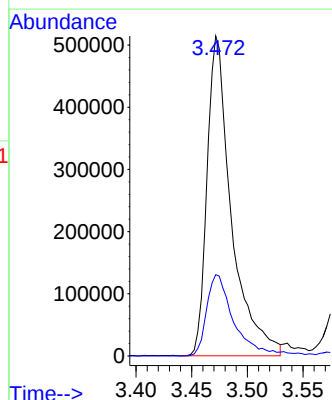
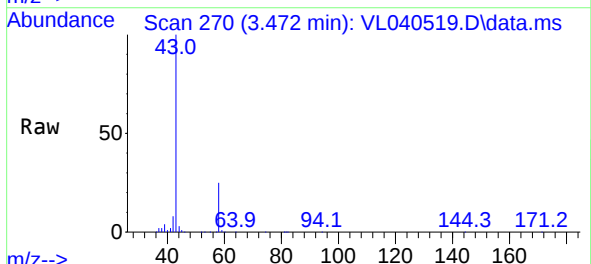
Acq: 10 Jul 2023 23:18

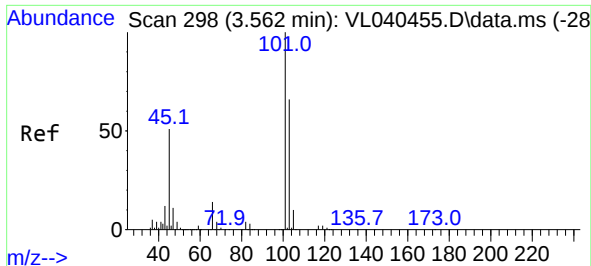
Tgt Ion: 43 Resp: 781217

Ion Ratio Lower Upper

43 100

58 28.9 22.9 34.3

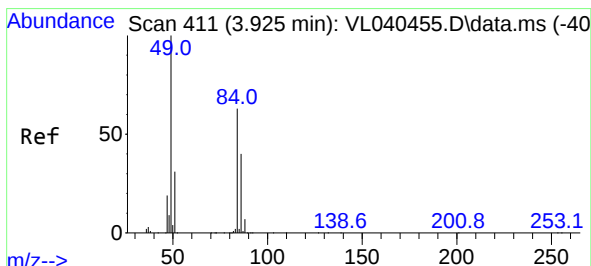
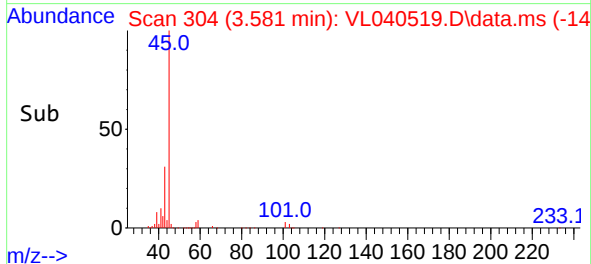
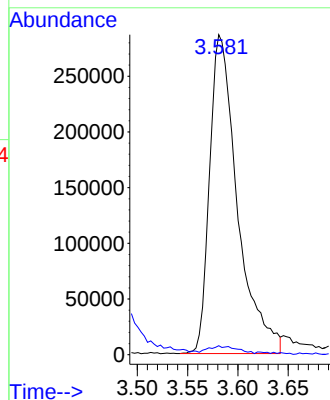
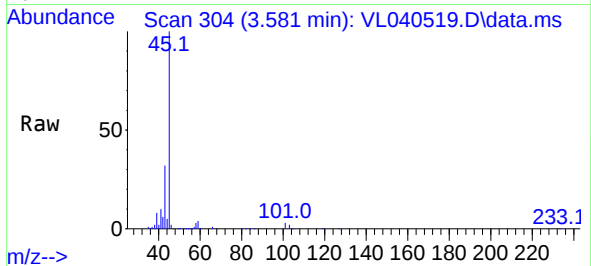




#19
Isopropyl Alcohol
Concen: 9.325 ppbv
RT: 3.581 min Scan# 304
Delta R.T. -0.000 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

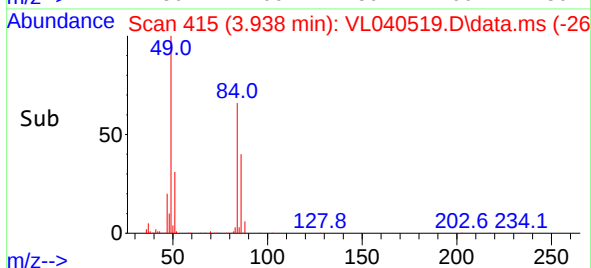
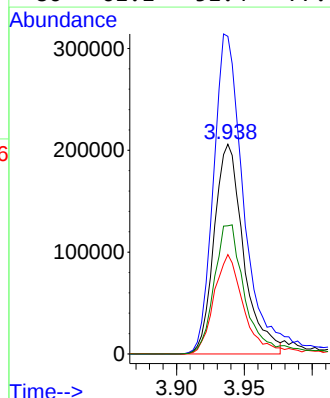
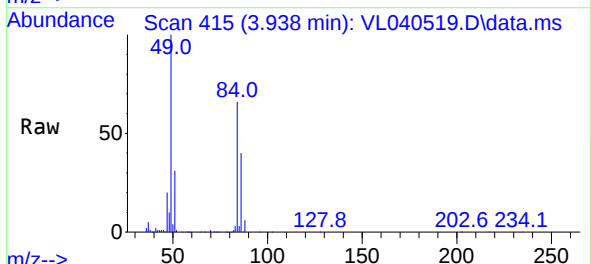
Instrument :
MSVOA_L
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OA1

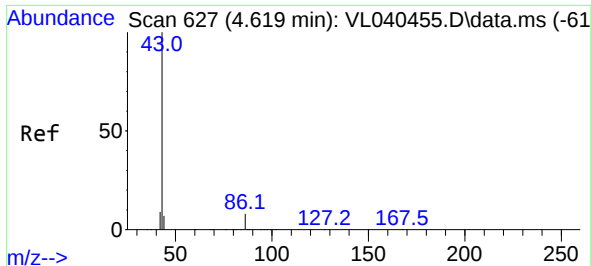
Tgt Ion: 45 Resp: 550896
Ion Ratio Lower Upper
45 100
58 3.0 1.1 1.7#



#20
Methylene Chloride
Concen: 7.115 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.003 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 84 Resp: 311442
Ion Ratio Lower Upper
84 100
49 151.3 123.4 185.2
51 47.3 38.3 57.5
86 61.1 51.4 77.0



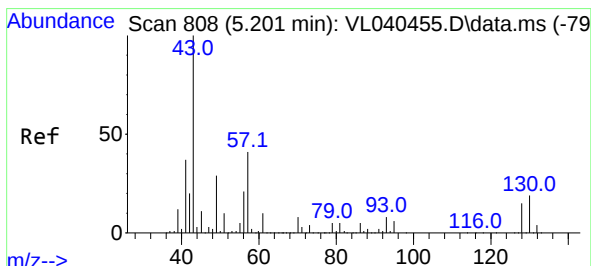
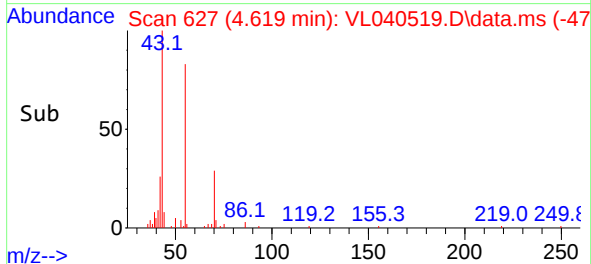
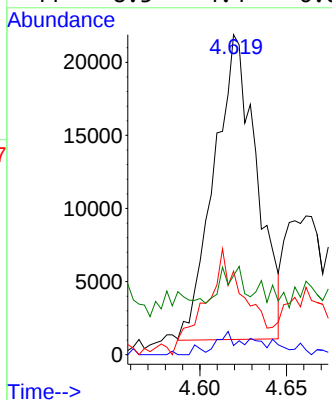
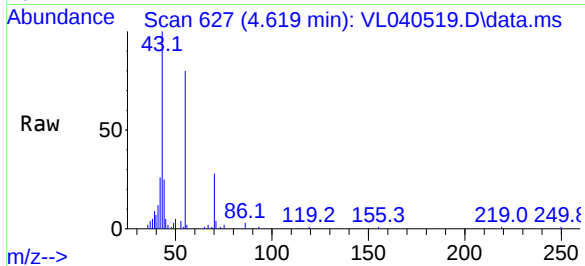


#23
 Vinyl Acetate
 Concen: 0.364 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040519.D
 Acq: 10 Jul 2023 23:18

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 35705

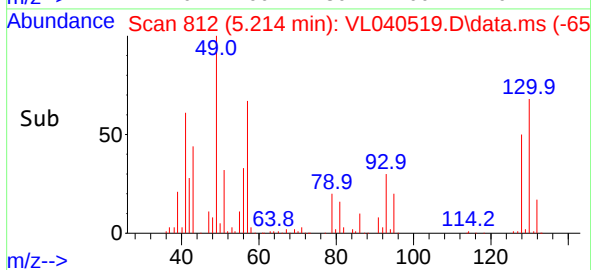
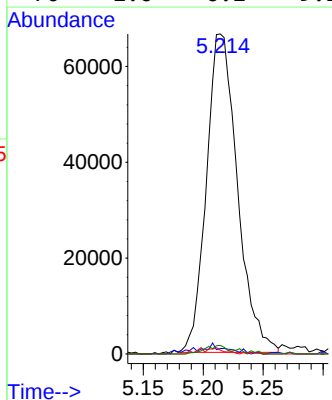
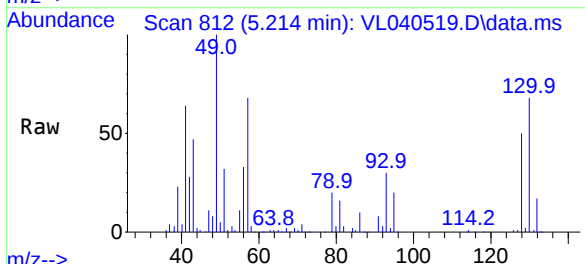
Ion	Ratio	Lower	Upper
43	100		
86	3.0	5.6	8.4#
42	22.4	7.4	11.2#
44	8.3	4.4	6.6#

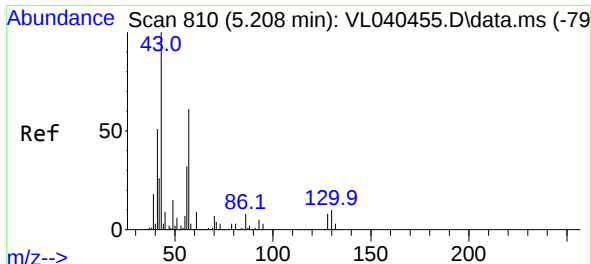


#25
 Ethyl Acetate
 Concen: 0.610 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL040519.D
 Acq: 10 Jul 2023 23:18

Tgt Ion: 43 Resp: 119547

Ion	Ratio	Lower	Upper
43	100		
45	3.3	8.2	12.4#
61	1.6	8.3	12.5#
70	2.6	6.2	9.2#

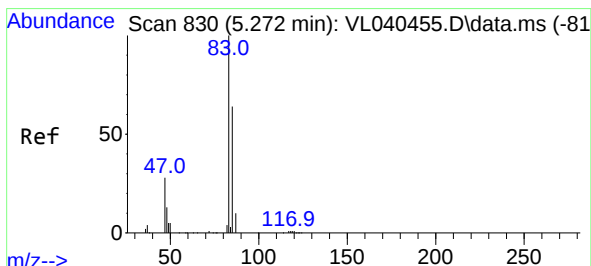
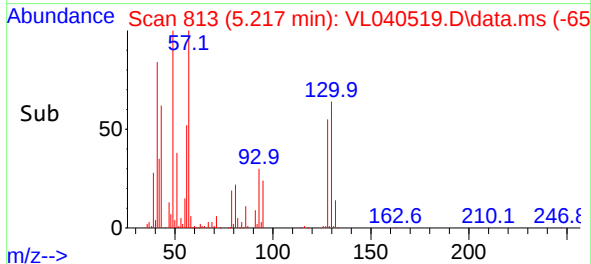
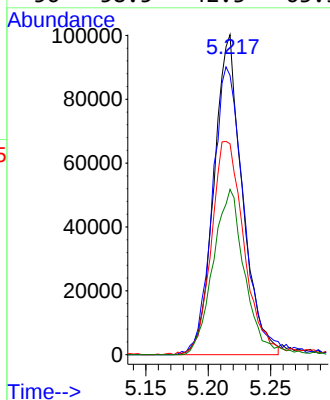
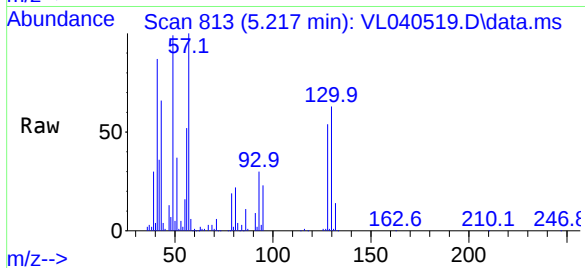




#26
Hexane
Concen: 1.742 ppbv
RT: 5.217 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

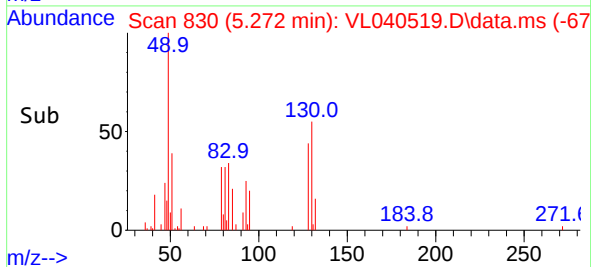
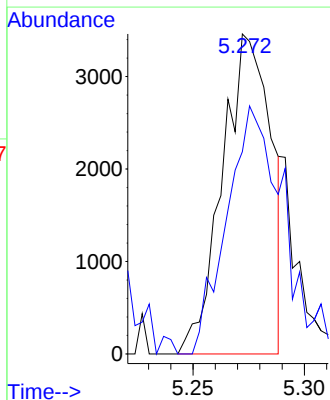
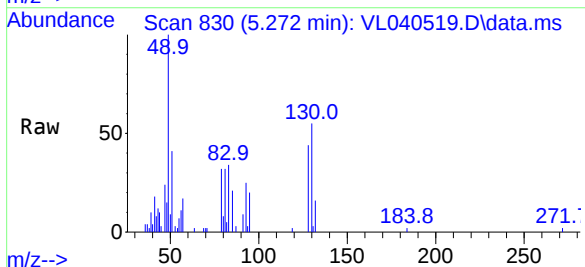
Instrument :
MSVOA_L
ClientSampleId :
OA1

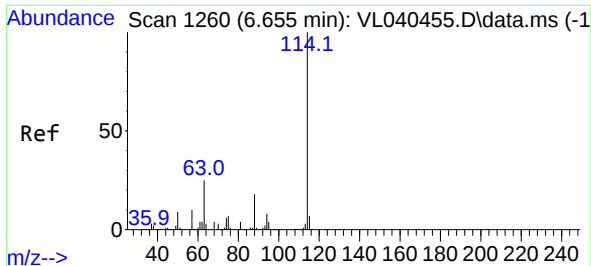
Tgt Ion: 57 Resp: 158534
Ion Ratio Lower Upper
57 100
41 101.7 69.5 104.3
43 78.9 177.1 265.7#
56 58.5 42.3 63.5



#29
Chloroform
Concen: 0.035 ppbv
RT: 5.272 min Scan# 830
Delta R.T. -0.013 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 83 Resp: 5242
Ion Ratio Lower Upper
83 100
85 63.2 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040519.D

Acq: 10 Jul 2023 23:18

Instrument :

MSVOA_L

ClientSampleId :

OA1

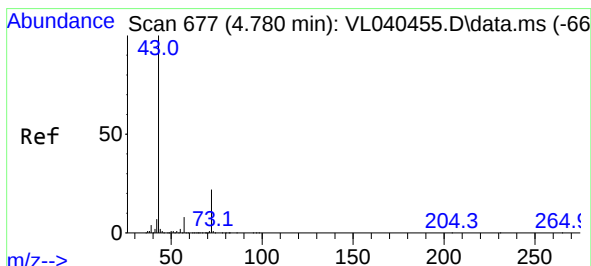
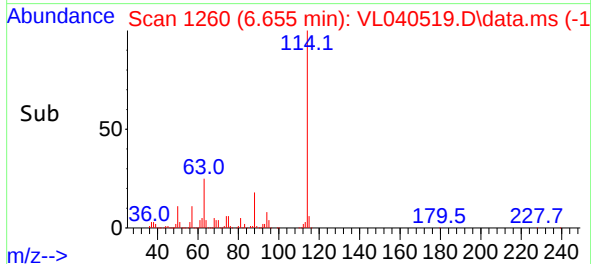
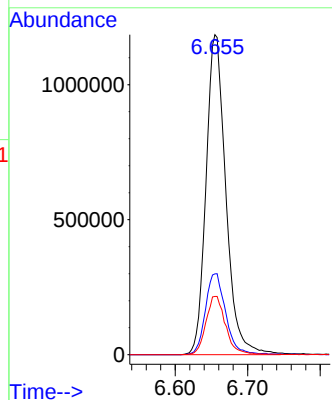
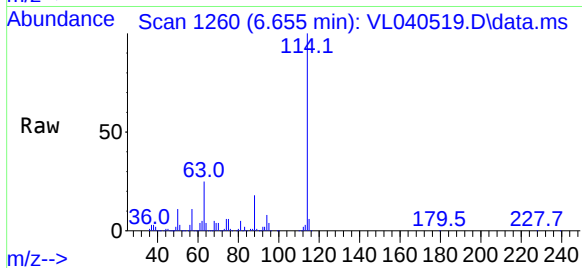
Tgt Ion:114 Resp: 2251669

Ion Ratio Lower Upper

114 100

63 26.2 19.6 29.4

88 18.2 14.2 21.2



#34

2-Butanone

Concen: 0.325 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.003 min

Lab File: VL040519.D

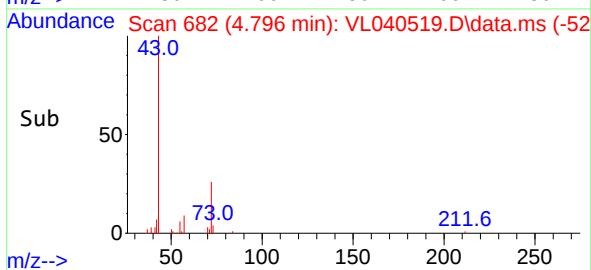
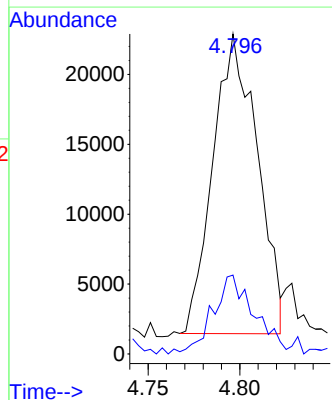
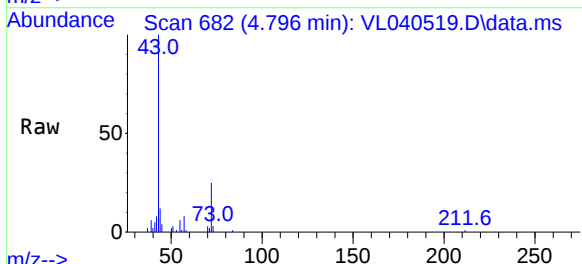
Acq: 10 Jul 2023 23:18

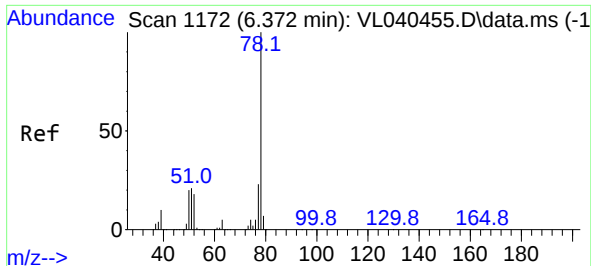
Tgt Ion: 43 Resp: 36119

Ion Ratio Lower Upper

43 100

72 27.1 19.1 28.7

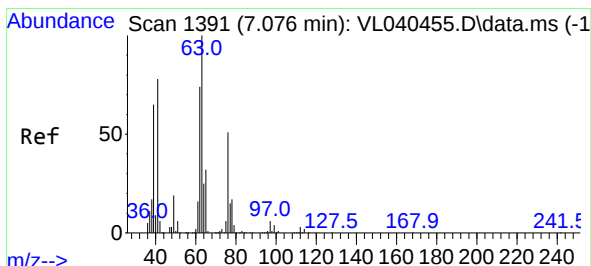
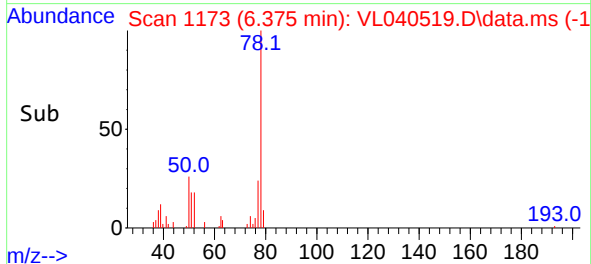
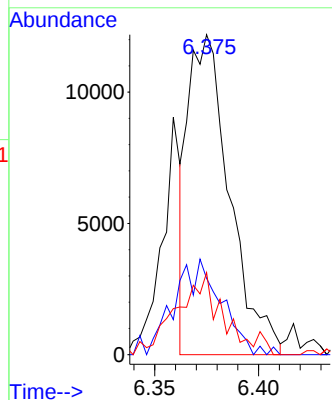
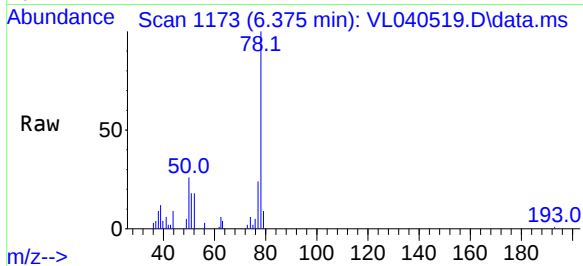




#36
Benzene
Concen: 0.093 ppbv
RT: 6.375 min Scan# 1172
Delta R.T. -0.007 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

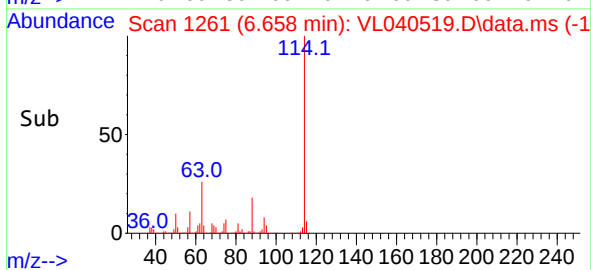
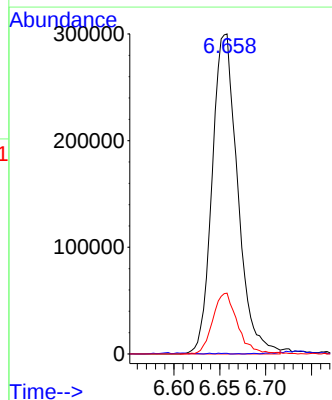
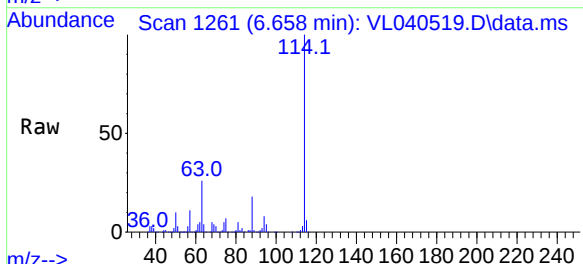
Instrument :
MSVOA_L
ClientSampleId :
OA1

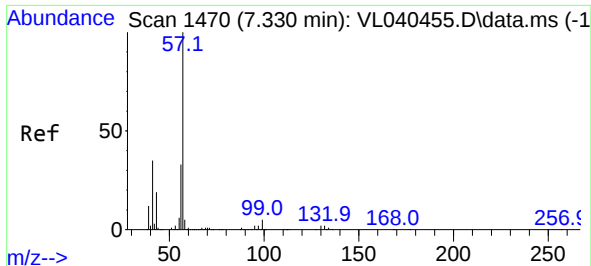
Tgt Ion: 78 Resp: 16935
Ion Ratio Lower Upper
78 100
77 24.7 17.4 26.0
50 26.6 14.4 21.6#



#39
1,2-Dichloropropane
Concen: 8.325 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.425 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 63 Resp: 580631
Ion Ratio Lower Upper
63 100
41 0.0 54.3 81.5#
62 19.0 55.6 83.4#

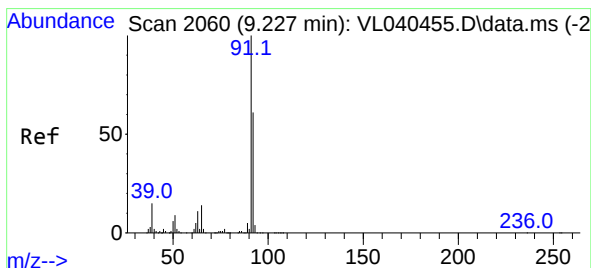
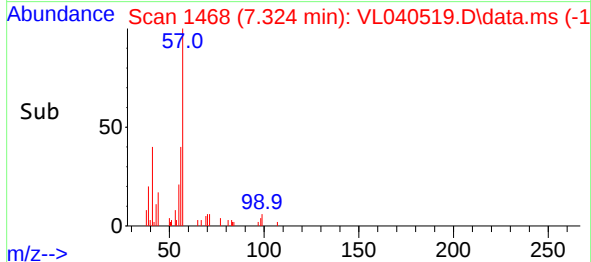
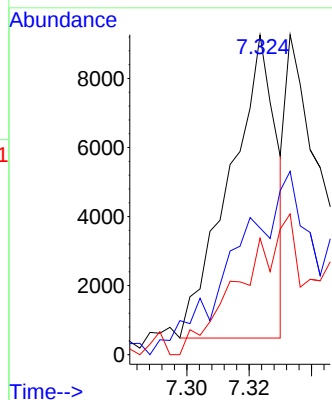
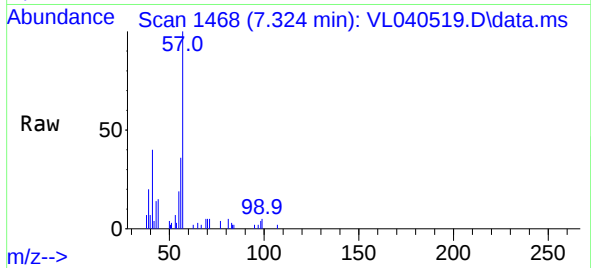




#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 7.324 min Scan# 1468
Delta R.T. -0.013 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

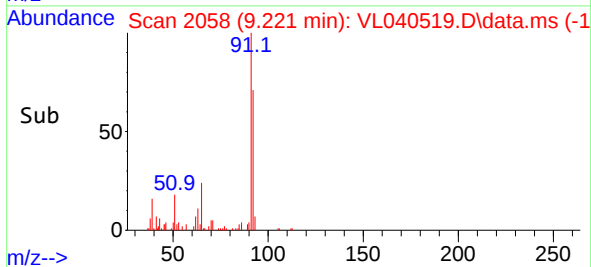
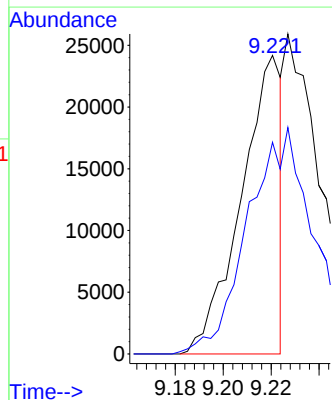
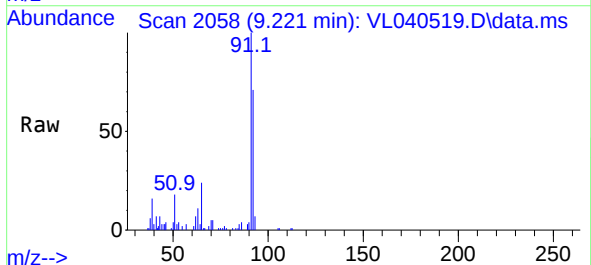
Instrument :
MSVOA_L
ClientSampleId :
OA1

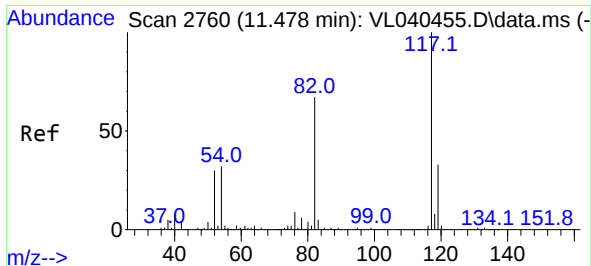
Tgt Ion: 57 Resp: 9085
Ion Ratio Lower Upper
57 100
41 0.0 25.5 38.3#
56 0.0 25.1 37.7#



#53
Toluene
Concen: 0.143 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. -0.010 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 91 Resp: 28225
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#

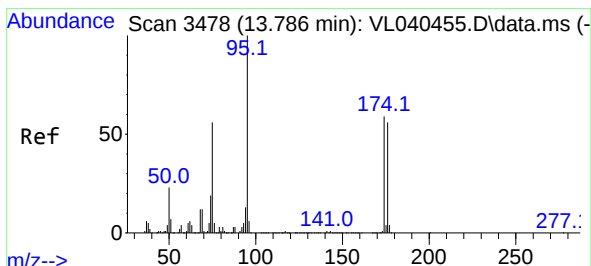
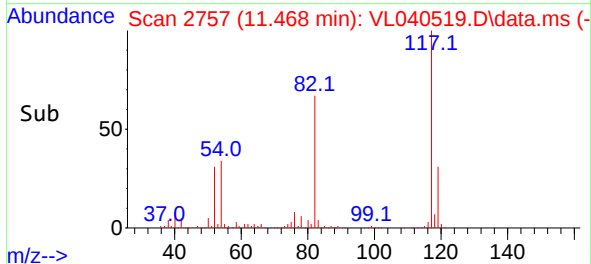
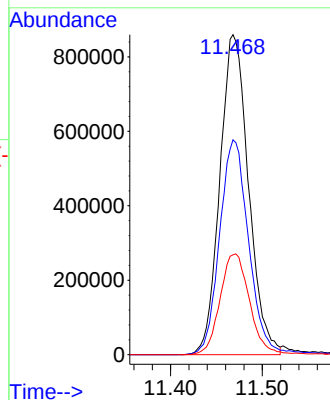
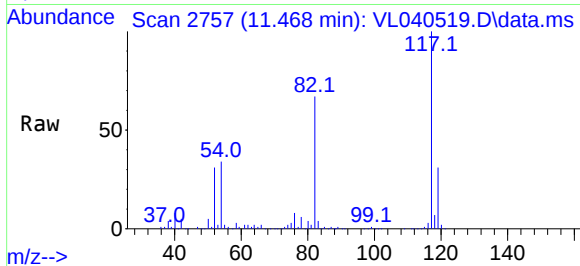




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 1865520
Ion Ratio Lower Upper
117 100
82 68.8 50.2 75.4
119 32.9 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.153 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040519.D
Acq: 10 Jul 2023 23:18

Tgt Ion: 95 Resp: 1499017
Ion Ratio Lower Upper
95 100
174 59.8 50.6 75.8
175 4.4 3.7 5.5

