

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041223\
 Data File : VL040343.D
 Acq On : 12 Apr 2023 17:50
 Operator : SY/MD
 Sample : 02311-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Apr 13 05:39:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Apr 11 04:15:53 2023
 Response via : Initial Calibration

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

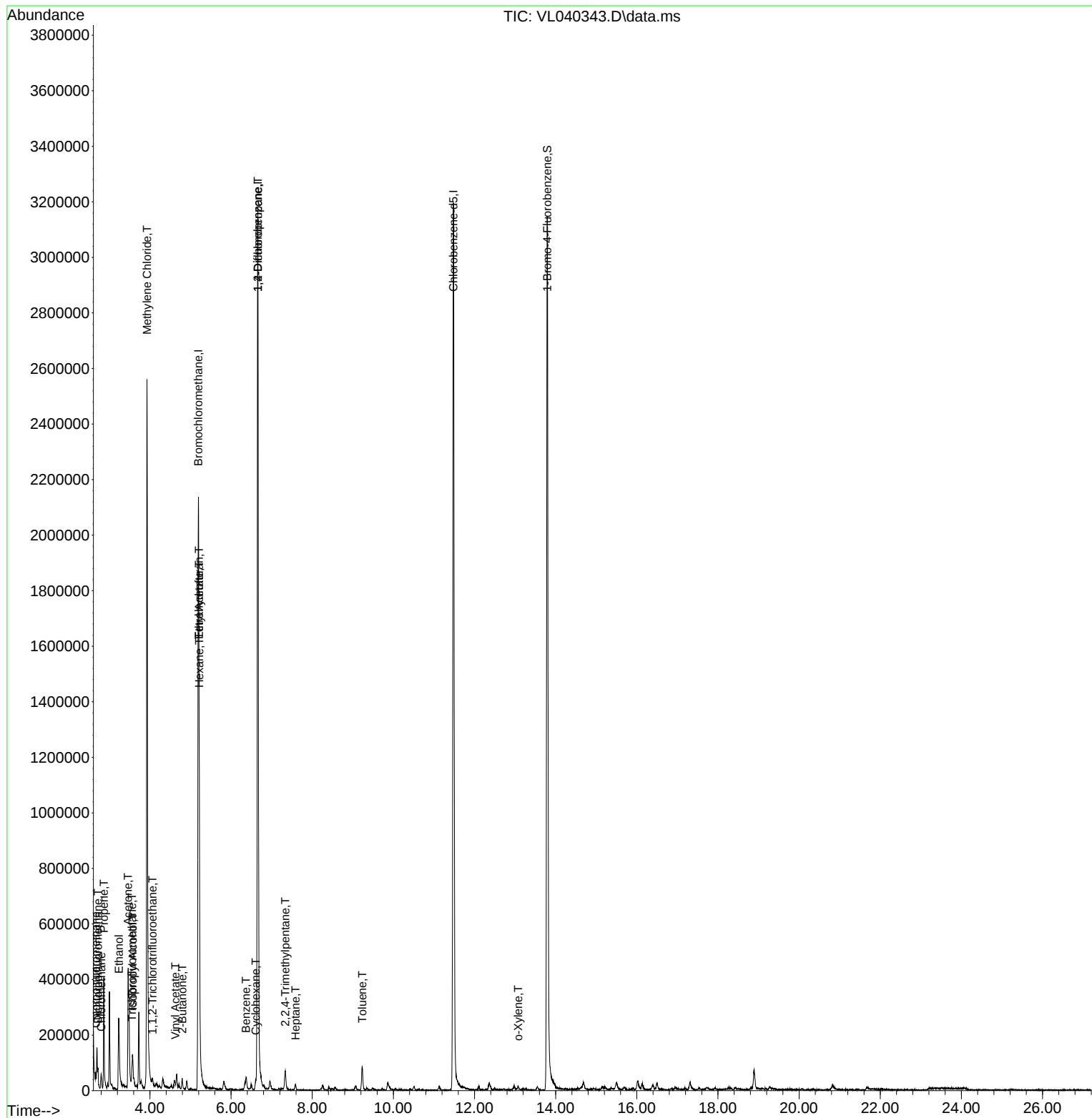
Internal Standards						
1) Bromochloromethane	5.192	49	937638	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2288912	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2018033	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1578408	9.340	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	41011	0.223	ppbv	95
3) Chlorodifluoromethane	2.665	51	57058	0.484	ppbv #	89
4) Chloromethane	2.803	50	31655	0.435	ppbv	99
9) Propene	2.864	41	88659	1.963	ppbv	93
10) Heptane	7.590	43	3757	0.035	ppbv #	30
11) Trichlorofluoromethane	3.555	101	33197	0.199	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.063	101	7267	0.058	ppbv	86
13) Ethanol	3.234	45	317344	95.793	ppbv	97
15) Acetone	3.462	43	478082	4.188	ppbv	100
19) Isopropyl Alcohol	3.575	45	100435	1.837	ppbv #	94
20) Methylene Chloride	3.928	84	900677	18.755	ppbv	96
23) Vinyl Acetate	4.626	43	2378	0.075	ppbv #	1
25) Ethyl Acetate	5.211	43	223898	1.048	ppbv #	77
26) Hexane	5.214	57	327139	3.729	ppbv #	36
30) Cyclohexane	6.610	84	3902	0.056	ppbv #	1
34) 2-Butanone	4.796	43	35830	0.317	ppbv #	87
36) Benzene	6.369	78	15007	0.086	ppbv	92
39) 1,2-Dichloropropane	6.658	63	585481	8.555	ppbv #	24
41) Tetrahydrofuran	5.211	42	125349	1.923	ppbv #	49
44) 2,2,4-Trimethylpentane	7.336	57	49369	0.170	ppbv #	76
53) Toluene	9.233	91	51954	0.284	ppbv	99
60) o-Xylene	13.076	91	6757	0.034	ppbv #	58

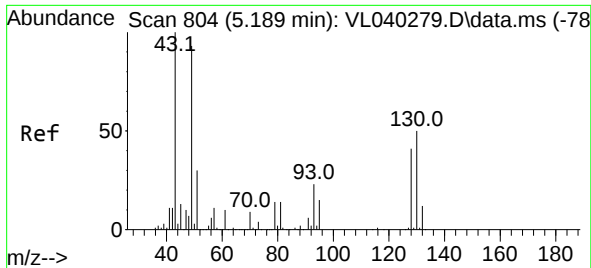
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 11 04:15:53 2023
Response via : Initial Calibration

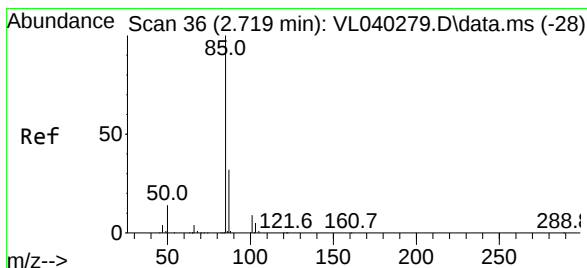
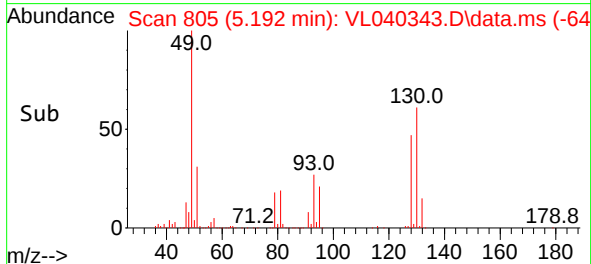
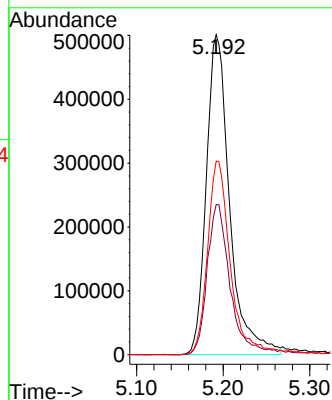
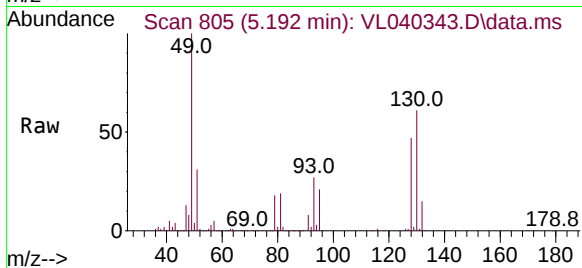




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 804
Delta R.T. 0.003 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

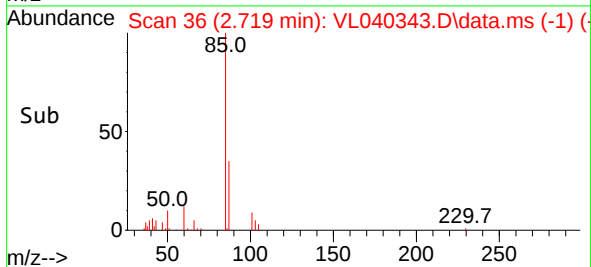
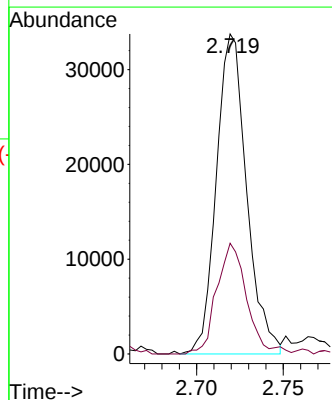
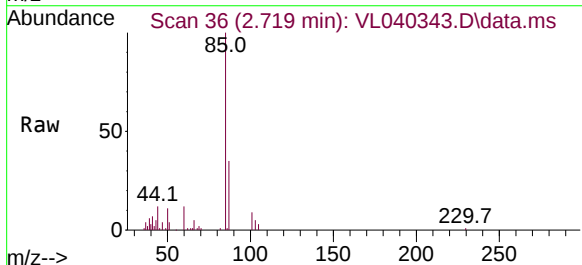
Instrument :
MSVOA_L
ClientSampleId :
OA1

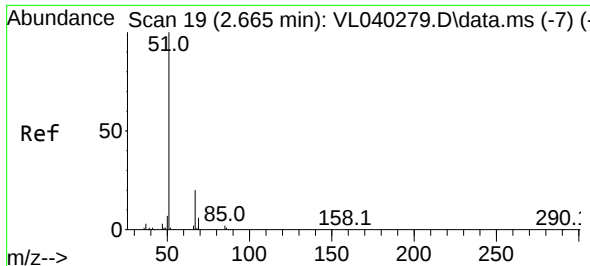
Tgt Ion: 49 Resp: 937638
Ion Ratio Lower Upper
49 100
128 47.6 22.4 67.3
130 61.0 28.7 86.1



#2
Dichlorodifluoromethane
Concen: 0.223 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 85 Resp: 41011
Ion Ratio Lower Upper
85 100
87 34.6 25.5 38.3

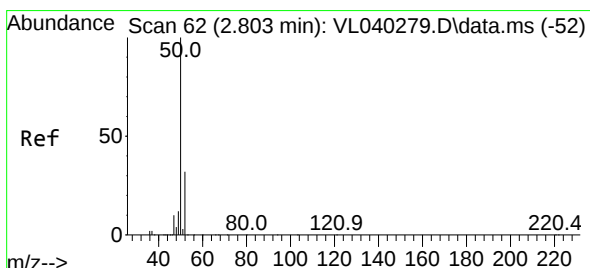
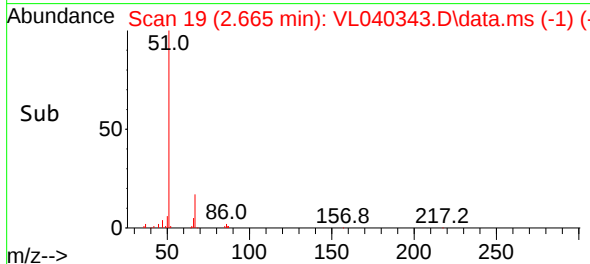
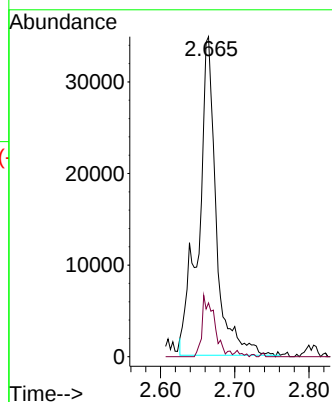
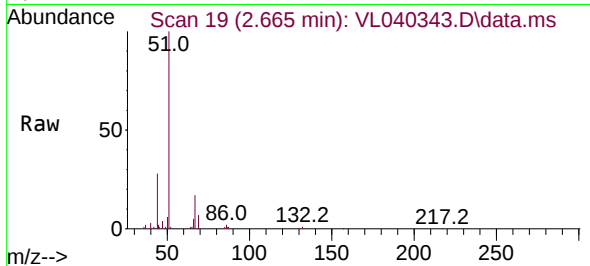




#3
Chlorodifluoromethane
Concen: 0.484 ppbv
RT: 2.665 min Scan# 19
Delta R.T. -0.000 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

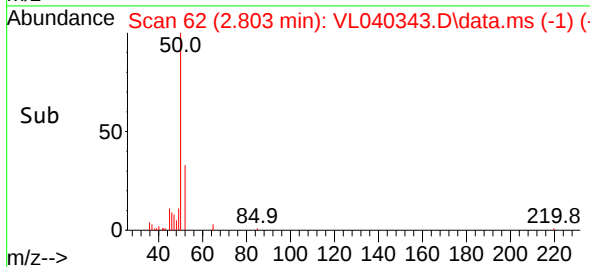
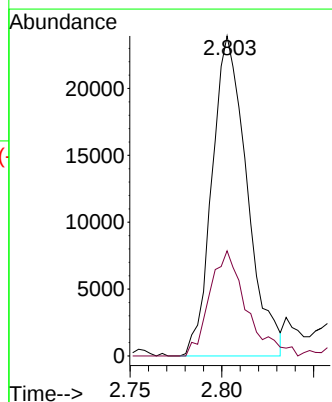
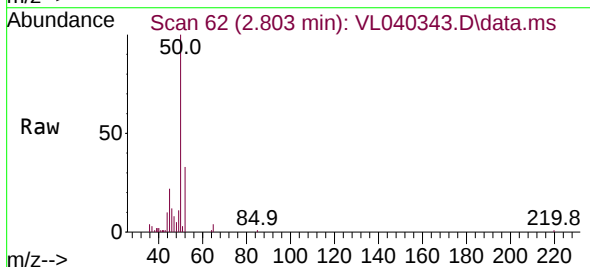
Instrument :
MSVOA_L
ClientSampleId :
OA1

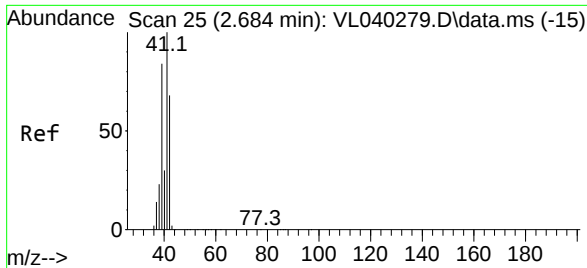
Tgt Ion: 51 Resp: 57058
Ion Ratio Lower Upper
51 100
67 14.8 16.0 24.0#



#4
Chloromethane
Concen: 0.435 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.000 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 50 Resp: 31655
Ion Ratio Lower Upper
50 100
52 32.8 25.9 38.9

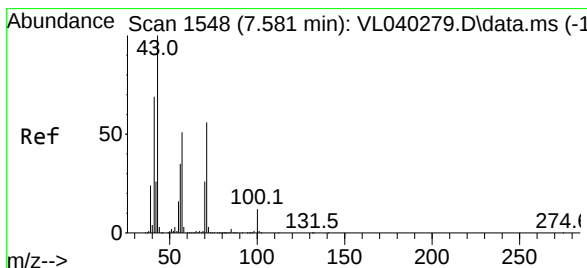
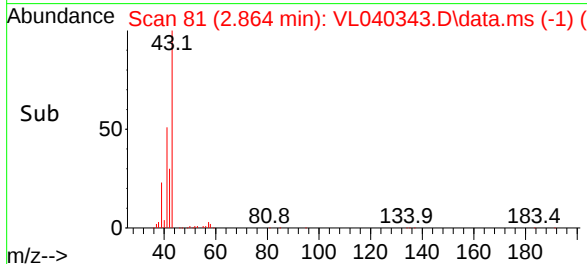
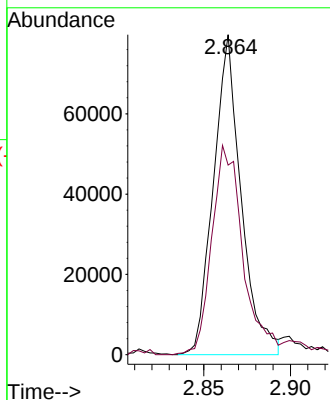
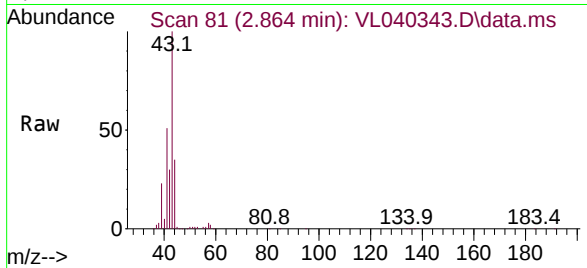




#9
 Propene
 Concen: 1.963 ppbv
 RT: 2.864 min Scan# 81
 Delta R.T. 0.180 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

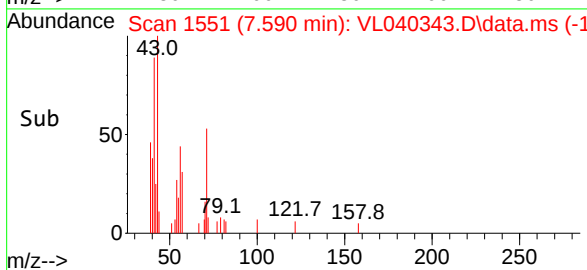
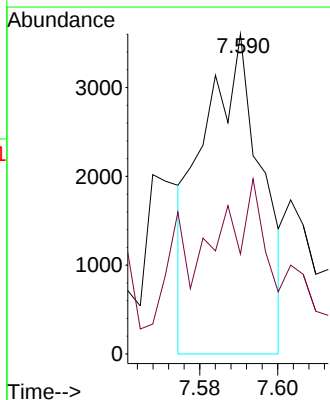
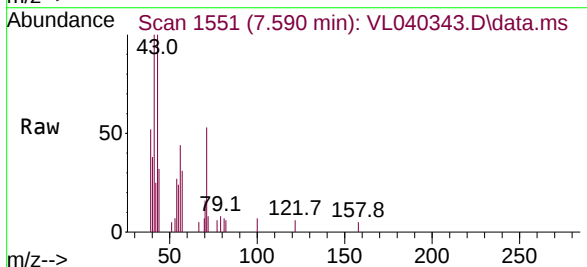
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

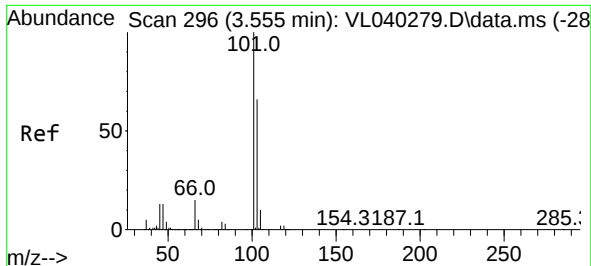
Tgt Ion: 41 Resp: 88659
 Ion Ratio Lower Upper
 41 100
 42 79.7 59.0 88.4



#10
 Heptane
 Concen: 0.035 ppbv
 RT: 7.590 min Scan# 1551
 Delta R.T. 0.009 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

Tgt Ion: 43 Resp: 3757
 Ion Ratio Lower Upper
 43 100
 57 101.5 41.7 62.5

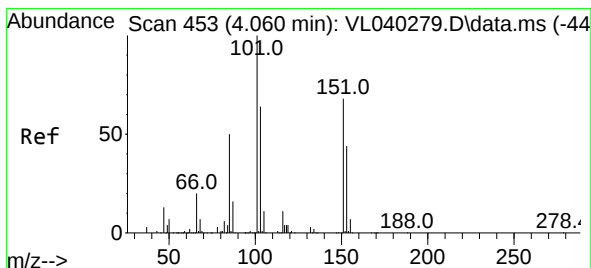
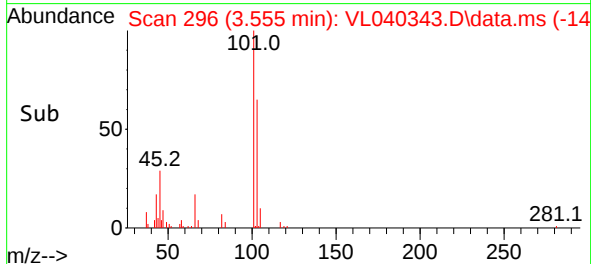
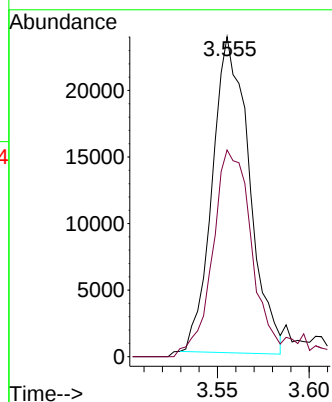
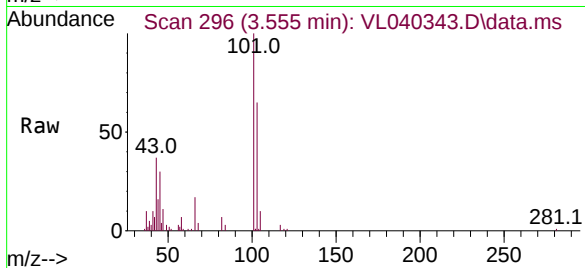




#11
 Trichlorofluoromethane
 Concen: 0.199 ppbv
 RT: 3.555 min Scan# 296
 Delta R.T. 0.000 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

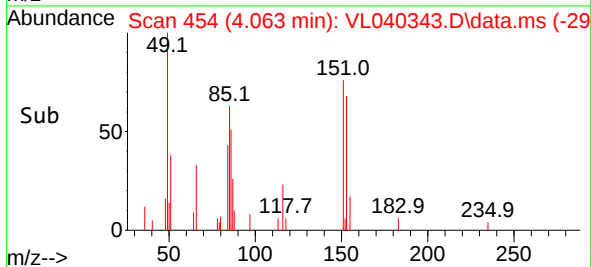
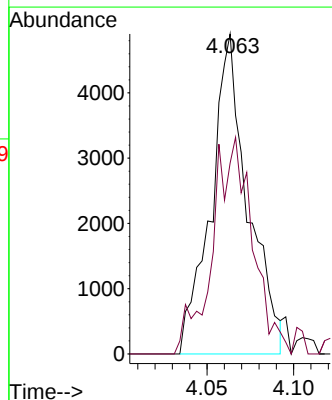
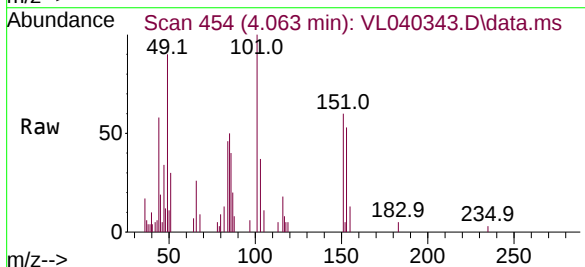
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

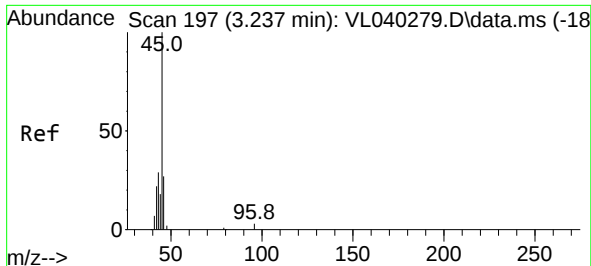
Tgt Ion:101 Resp: 33197
 Ion Ratio Lower Upper
 101 100
 103 63.1 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.058 ppbv
 RT: 4.063 min Scan# 454
 Delta R.T. 0.003 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

Tgt Ion:101 Resp: 7267
 Ion Ratio Lower Upper
 101 100
 151 77.9 53.2 79.8

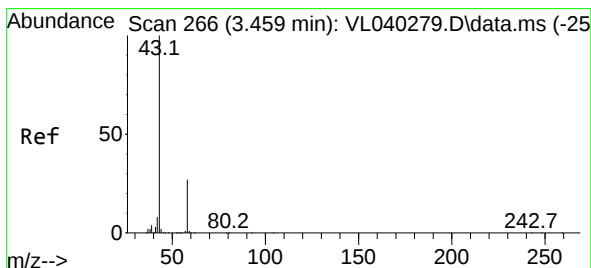
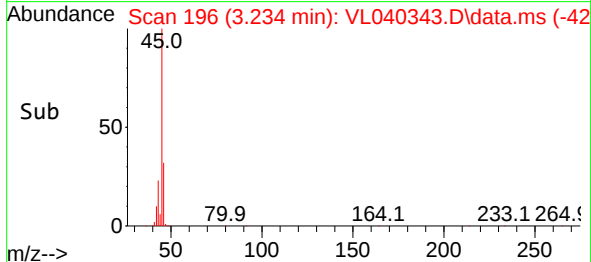
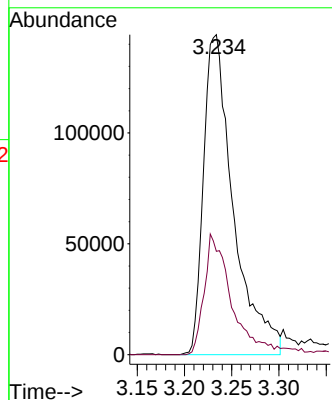
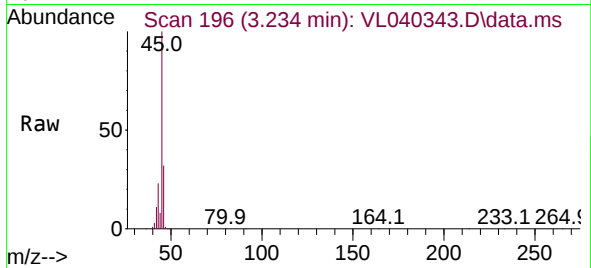




#13
Ethanol
Concen: 95.793 ppbv
RT: 3.234 min Scan# 197
Delta R.T. -0.003 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

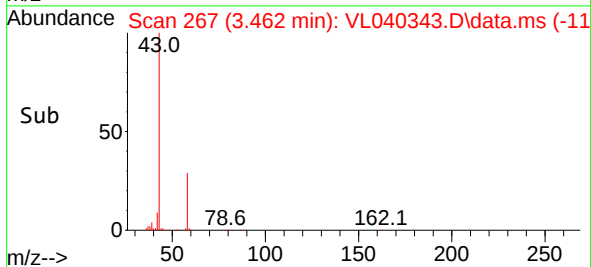
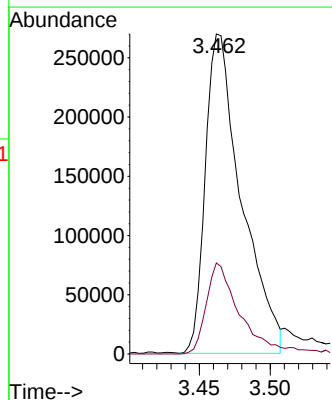
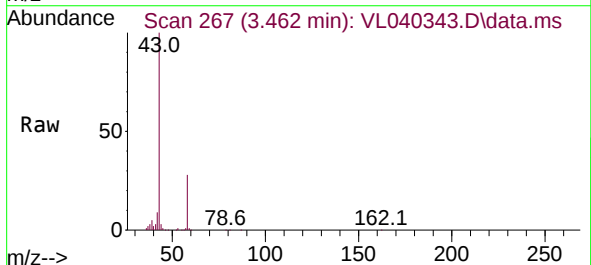
Instrument :
MSVOA_1
ClientSampleId :
OA1

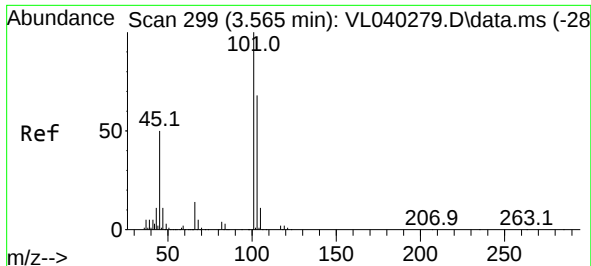
Tgt Ion: 45 Resp: 317344
Ion Ratio Lower Upper
45 100
46 35.6 15.0 60.2



#15
Acetone
Concen: 4.188 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.003 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 43 Resp: 478082
Ion Ratio Lower Upper
43 100
58 27.3 21.8 32.8





#19

Isopropyl Alcohol

Concen: 1.837 ppbv

RT: 3.575 min Scan# 302

Delta R.T. 0.010 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Instrument :

MSVOA_1

ClientSampleId :

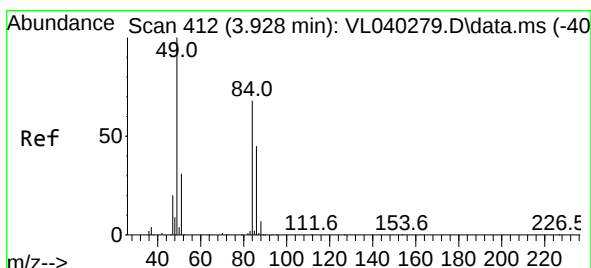
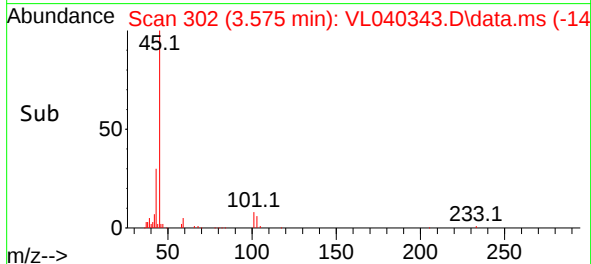
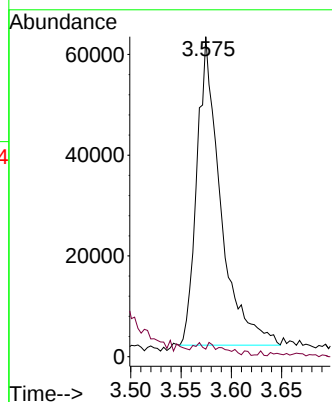
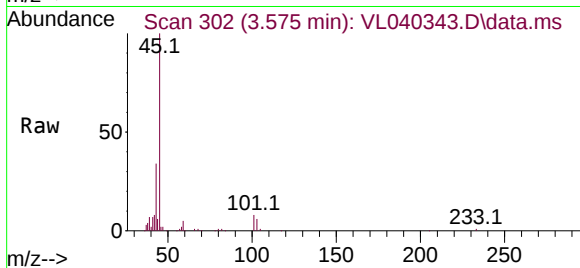
OA1

Tgt Ion: 45 Resp: 100435

Ion Ratio Lower Upper

45 100

58 5.4 2.7 4.1#



#20

Methylene Chloride

Concen: 18.755 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.000 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Tgt Ion: 84 Resp: 900677

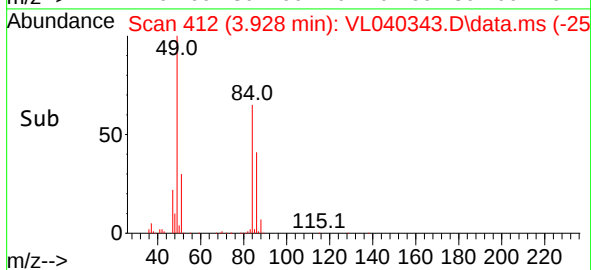
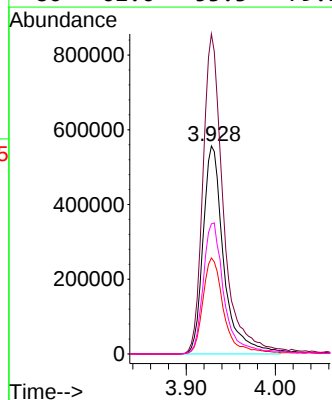
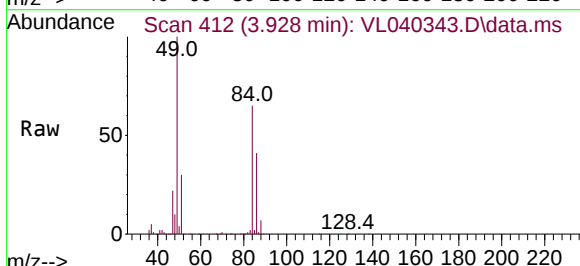
Ion Ratio Lower Upper

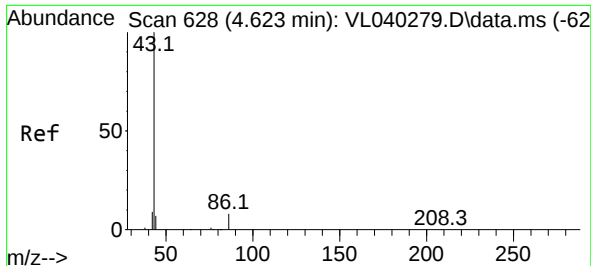
84 100

49 153.8 117.5 176.3

51 46.1 36.9 55.3

86 62.6 53.3 79.9

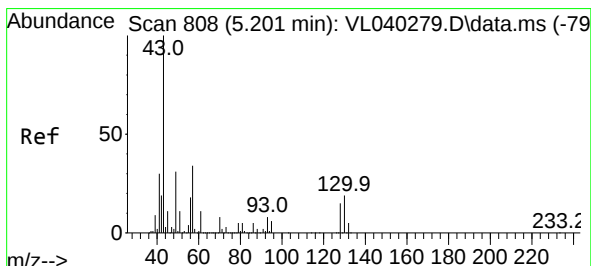
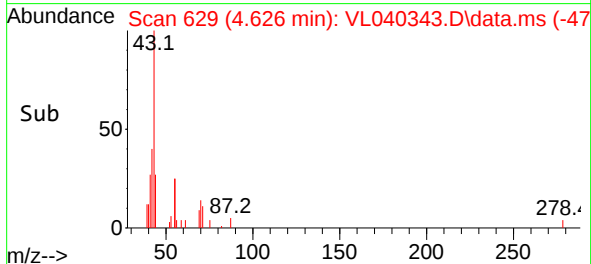
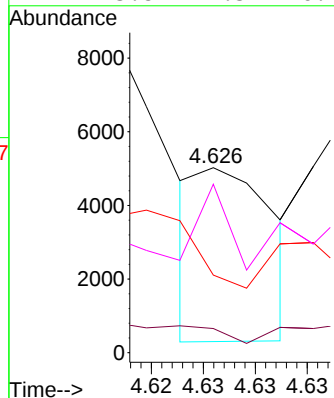
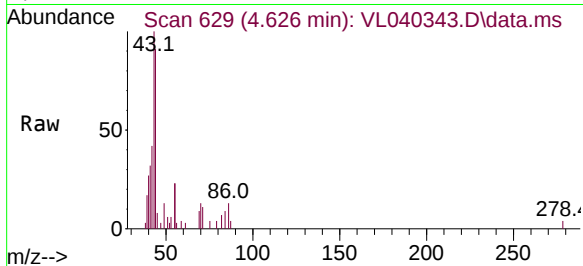




#23
 Vinyl Acetate
 Concen: 0.075 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

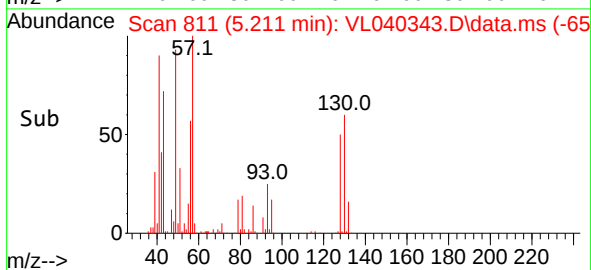
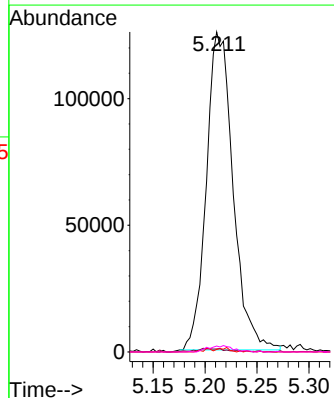
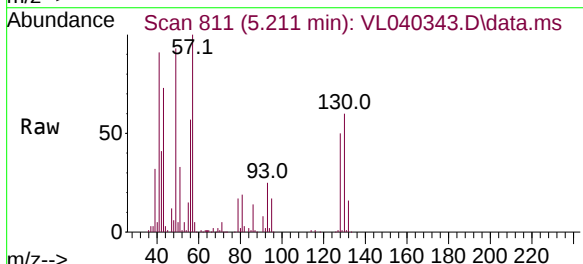
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

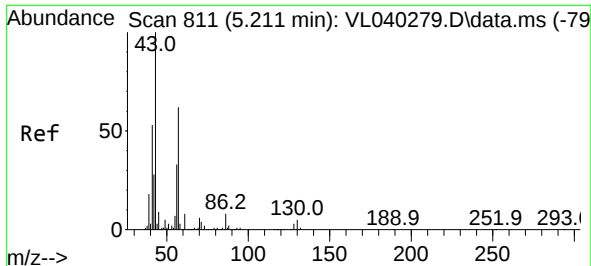
Tgt Ion:	43	Resp:	2378
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.4#
42	0.0	9.1	13.7#
44	145.8	4.5	6.7#



#25
 Ethyl Acetate
 Concen: 1.048 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.010 min
 Lab File: VL040343.D
 Acq: 12 Apr 2023 17:50

Tgt Ion:	43	Resp:	223898
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.6	12.8#
61	1.0	8.4	12.6#
70	1.9	5.8	8.6#

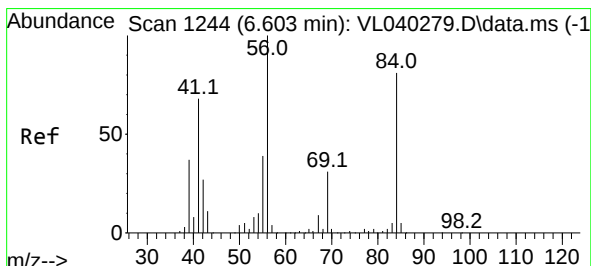
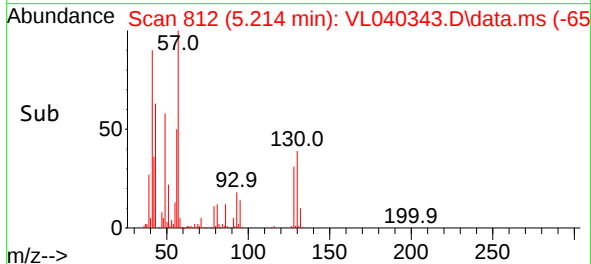
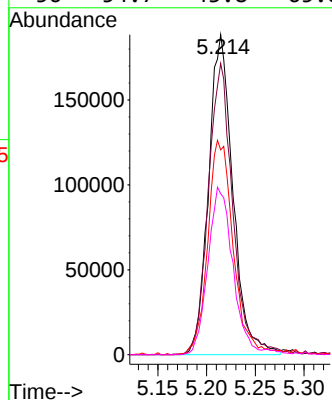
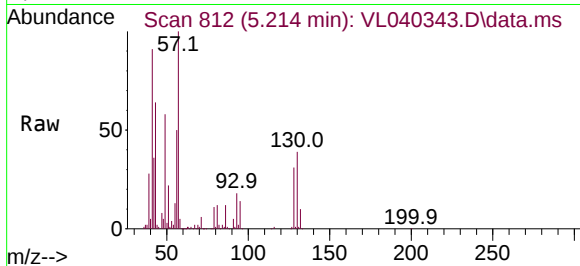




#26
Hexane
Concen: 3.729 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

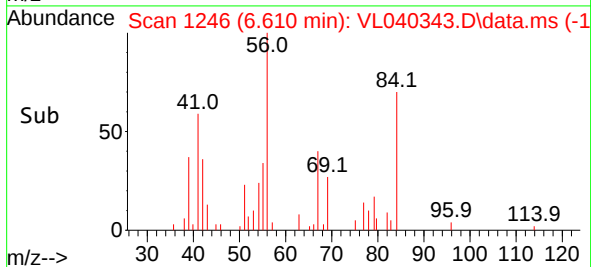
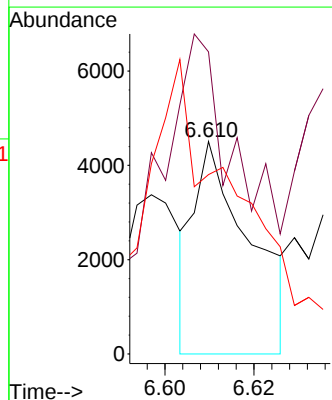
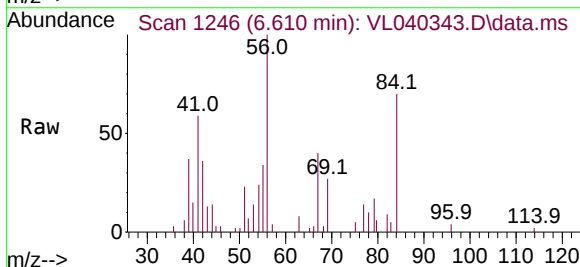
Instrument :
MSVOA_L
ClientSampleId :
OA1

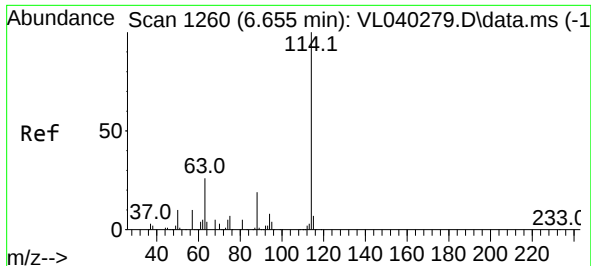
Tgt Ion: 57 Resp: 327139
Ion Ratio Lower Upper
57 100
41 93.7 73.5 110.3
43 71.5 196.3 294.5#
56 54.7 43.8 65.8



#30
Cyclohexane
Concen: 0.056 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.007 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 84 Resp: 3902
Ion Ratio Lower Upper
84 100
56 283.2 109.0 163.4#
41 269.5 67.9 101.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Instrument :

MSVOA_L

ClientSampleId :

OA1

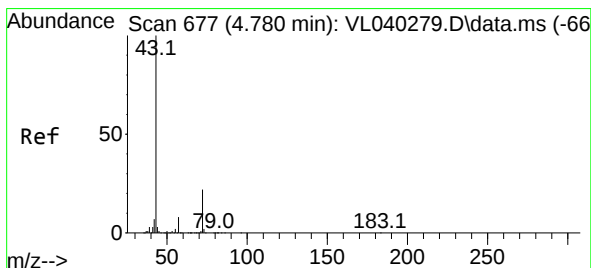
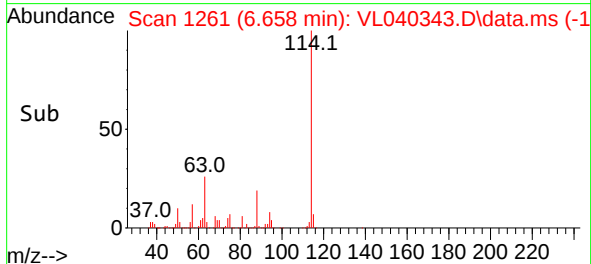
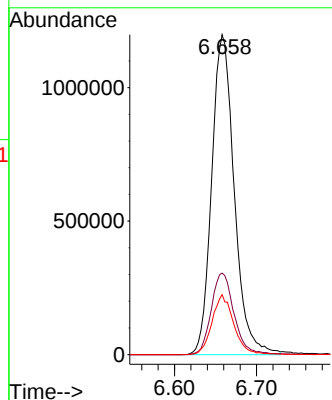
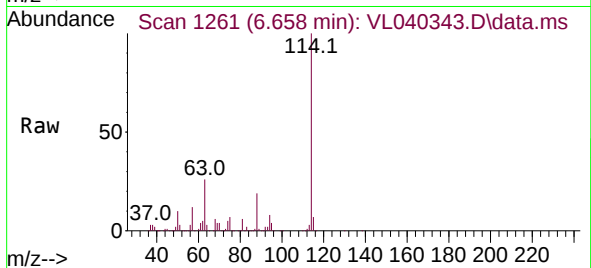
Tgt Ion:114 Resp: 2288912

Ion Ratio Lower Upper

114 100

63 26.1 21.2 31.8

88 18.3 14.5 21.7



#34

2-Butanone

Concen: 0.317 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.016 min

Lab File: VL040343.D

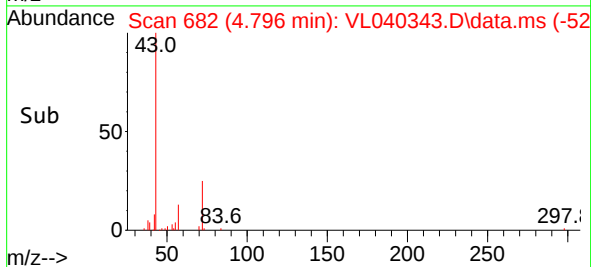
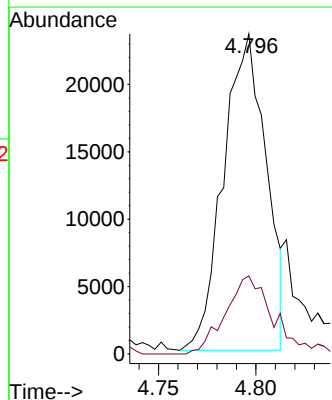
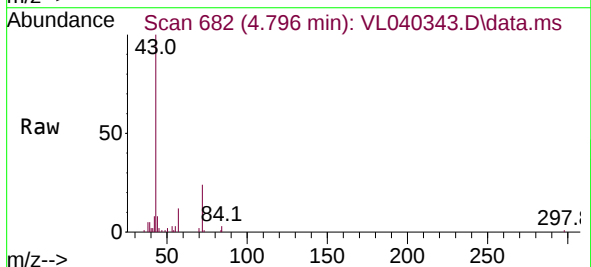
Acq: 12 Apr 2023 17:50

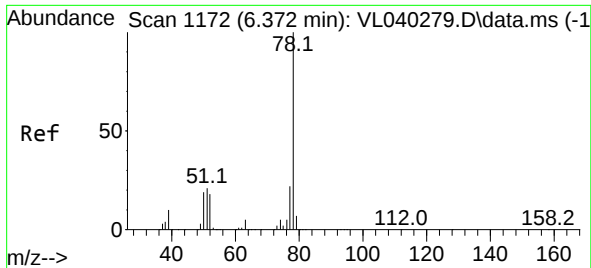
Tgt Ion: 43 Resp: 35830

Ion Ratio Lower Upper

43 100

72 29.4 18.3 27.5#





#36

Benzene

Concen: 0.086 ppbv

RT: 6.369 min Scan# 1171

Delta R.T. -0.003 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Instrument :

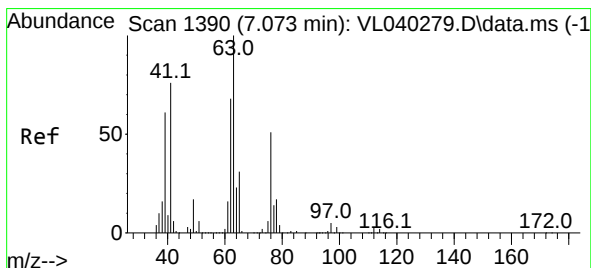
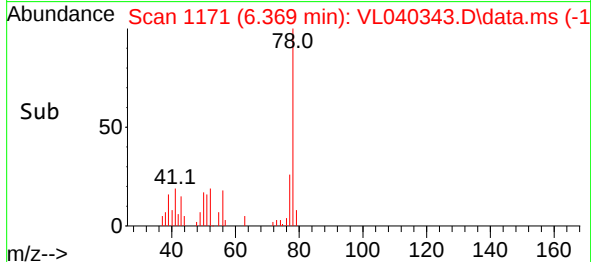
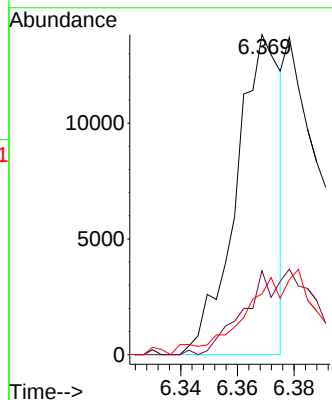
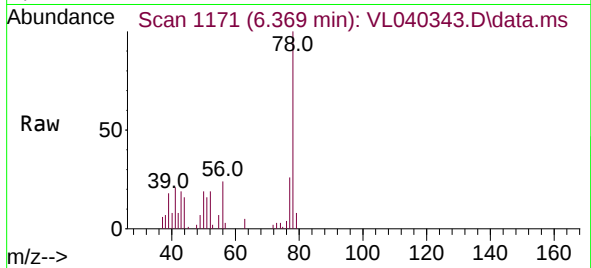
MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 78 Resp: 15007

Ion	Ratio	Lower	Upper
78	100		
77	26.2	17.8	26.8
50	15.8	15.4	23.2



#39

1,2-Dichloropropane

Concen: 8.555 ppbv

RT: 6.658 min Scan# 1261

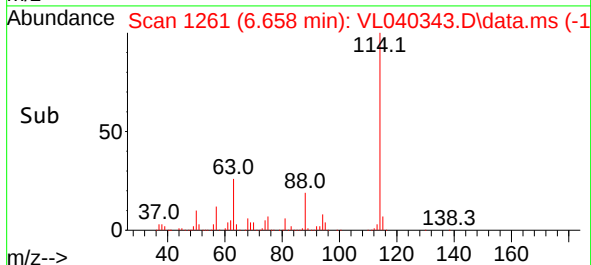
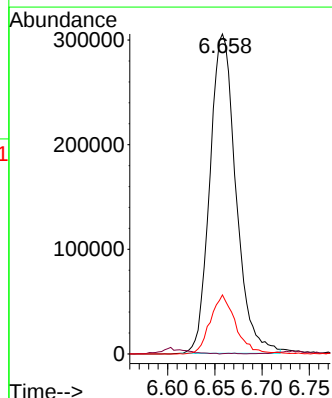
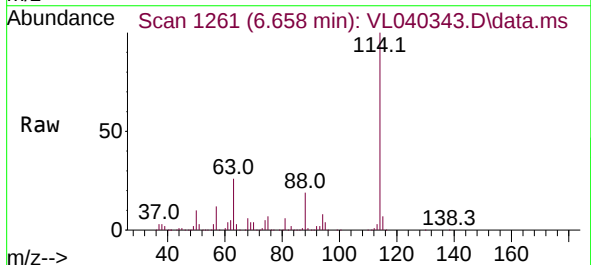
Delta R.T. -0.415 min

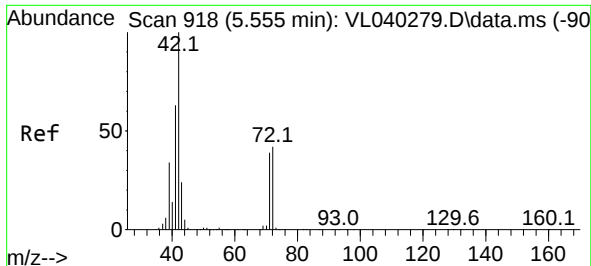
Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Tgt Ion: 63 Resp: 585481

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	18.3	54.1	81.1#





#41

Tetrahydrofuran

Concen: 1.923 ppbv

RT: 5.211 min Scan# 81

Delta R.T. -0.344 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

Instrument :

MSVOA_L

ClientSampleId :

OA1

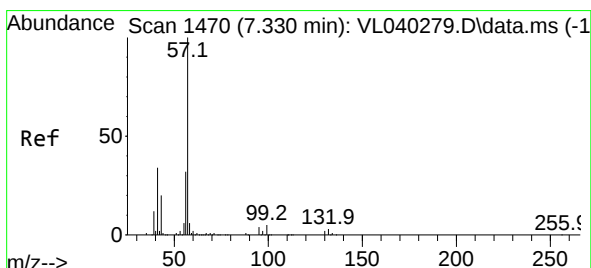
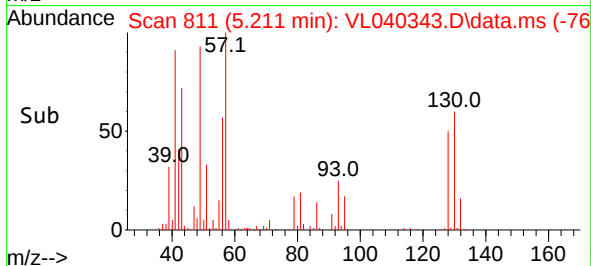
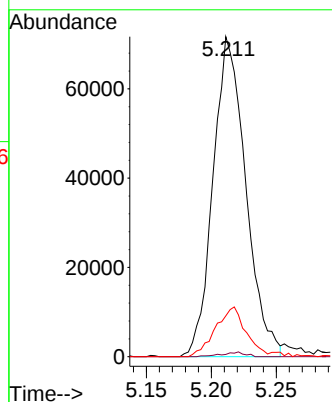
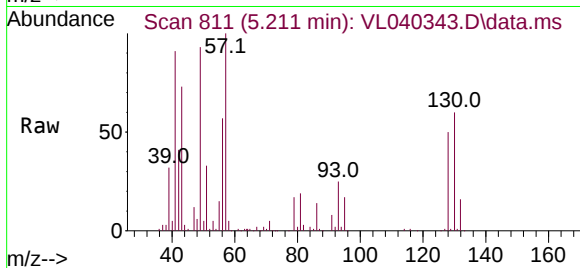
Tgt Ion: 42 Resp: 125349

Ion Ratio Lower Upper

42 100

72 1.0 32.6 49.0#

71 15.3 31.0 46.4#



#44

2,2,4-Trimethylpentane

Concen: 0.170 ppbv

RT: 7.336 min Scan# 1472

Delta R.T. 0.006 min

Lab File: VL040343.D

Acq: 12 Apr 2023 17:50

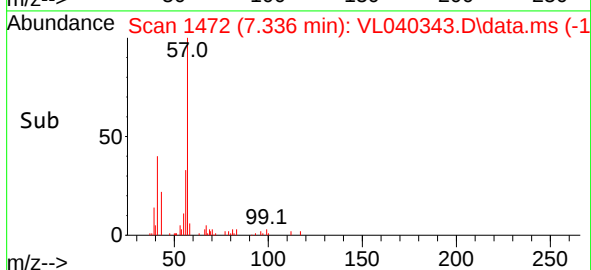
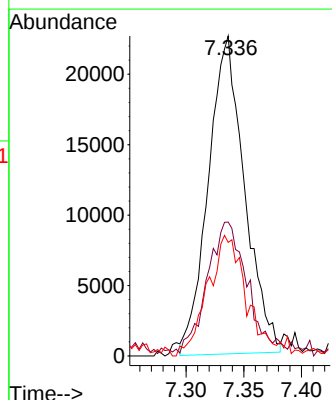
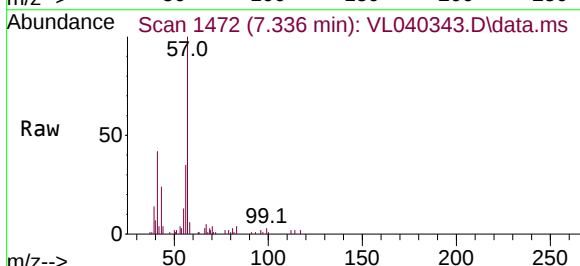
Tgt Ion: 57 Resp: 49369

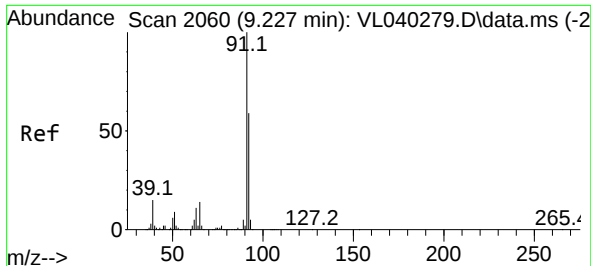
Ion Ratio Lower Upper

57 100

41 50.5 26.8 40.2#

56 41.6 25.0 37.6#

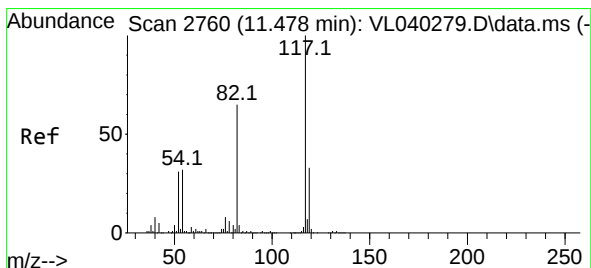
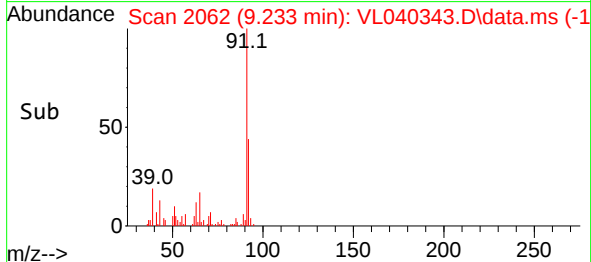
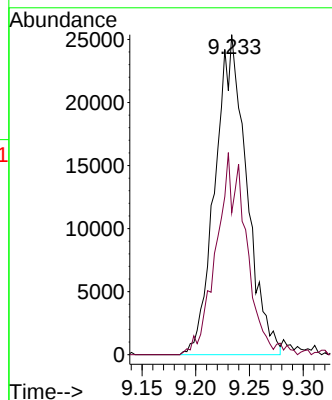
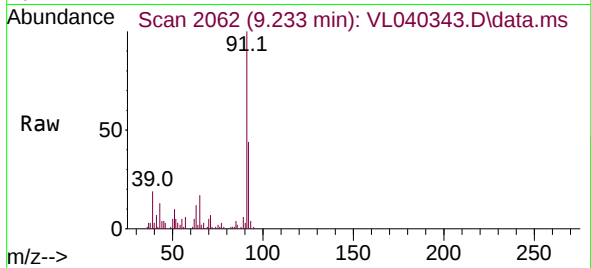




#53
Toluene
Concen: 0.284 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.006 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

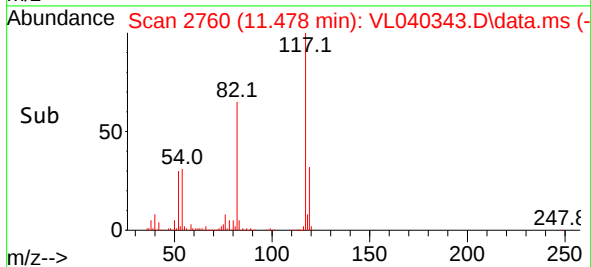
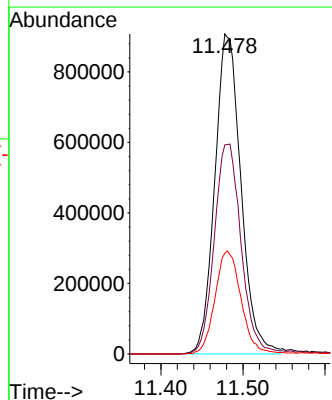
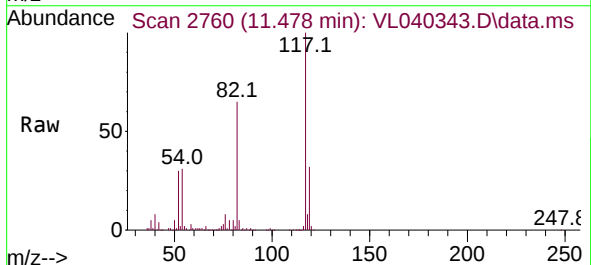
Instrument :
MSVOA_L
ClientSampleId :
OA1

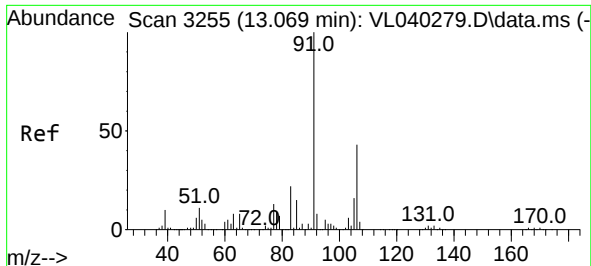
Tgt Ion: 91 Resp: 51954
Ion Ratio Lower Upper
91 100
92 60.8 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. -0.000 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 117 Resp: 2018033
Ion Ratio Lower Upper
117 100
82 68.1 51.4 77.2
119 32.1 24.0 36.0

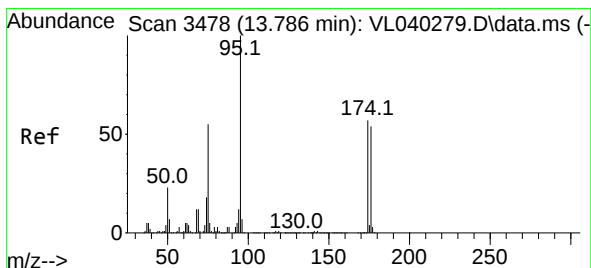
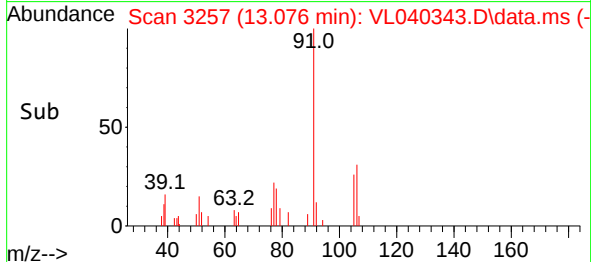
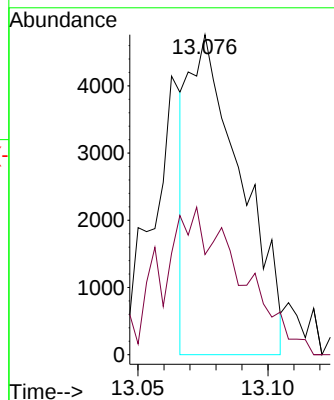
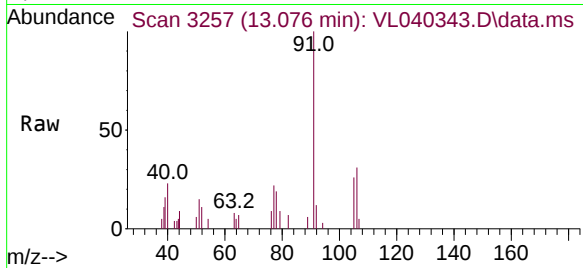




#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.076 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 6757
Ion Ratio Lower Upper
91 100
106 70.4 21.7 65.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.340 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.007 min
Lab File: VL040343.D
Acq: 12 Apr 2023 17:50

Tgt Ion: 95 Resp: 1578408
Ion Ratio Lower Upper
95 100
174 59.7 47.0 70.6
175 4.2 3.4 5.2

