

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040274.D
 Acq On : 13 Mar 2023 21:08
 Operator : SY/MD
 Sample : 01899-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Mar 14 04:56:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Mar 14 04:52:39 2023
 Response via : Initial Calibration

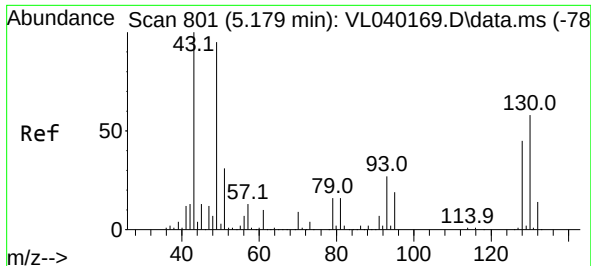
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.198	49	879468	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2146067	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1827481	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1453737	9.674	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	79480	0.485	ppbv	89
3) Chlorodifluoromethane	2.671	51	50428	0.480	ppbv #	89
4) Chloromethane	2.806	50	28849	0.437	ppbv	99
9) Propene	2.870	41	36179	0.845	ppbv	98
11) Trichlorofluoromethane	3.562	101	21265	0.145	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.070	101	7260	0.067	ppbv #	77
13) Ethanol	3.240	45	85873	21.781	ppbv	94
15) Acetone	3.468	43	429539	4.057	ppbv	99
16) 1,3-Butadiene	2.977	39	3571	0.074	ppbv #	53
19) Isopropyl Alcohol	3.591	45	37081	0.737	ppbv #	1
20) Methylene Chloride	3.935	84	823590	14.942	ppbv	96
23) Vinyl Acetate	4.616	43	7605	0.237	ppbv #	26
25) Ethyl Acetate	5.218	43	318450	1.618	ppbv #	77
26) Hexane	5.221	57	449892	5.324	ppbv #	37
34) 2-Butanone	4.796	43	6515	0.062	ppbv #	40
36) Benzene	6.378	78	56242	0.337	ppbv	95
39) 1,2-Dichloropropane	6.661	63	556185	8.561	ppbv #	25
41) Tetrahydrofuran	5.221	42	171687	2.799	ppbv #	47
44) 2,2,4-Trimethylpentane	7.336	57	11197	0.040	ppbv #	1
53) Toluene	9.233	91	63900	0.357	ppbv	99

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

Quant Time: Mar 14 04:56:59 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Mar 14 04:52:39 2023
Response via : Initial Calibration

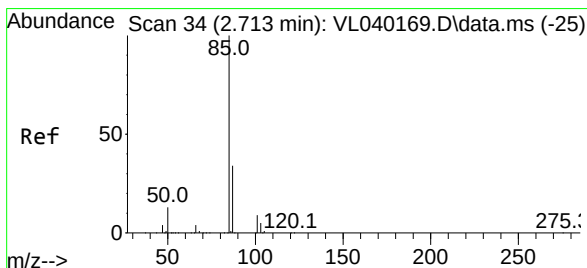
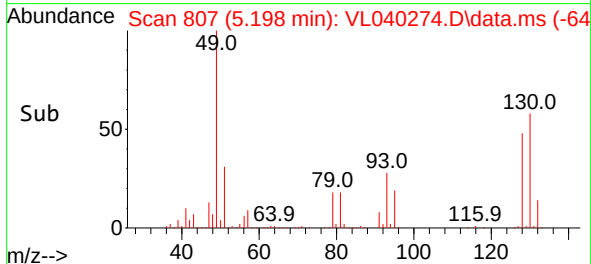
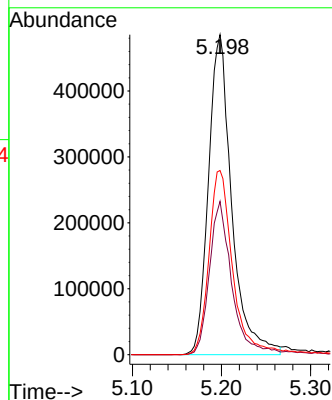
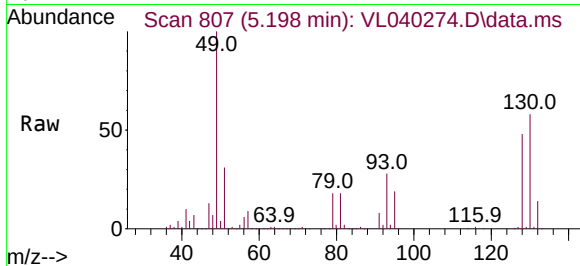




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL040274.D
 Acq: 13 Mar 2023 21:08

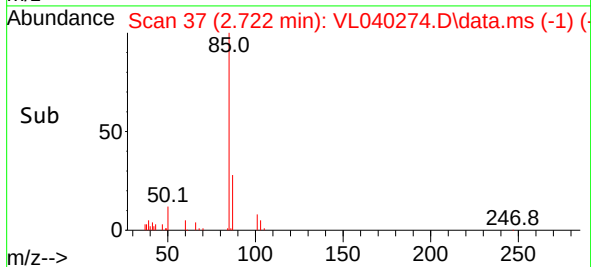
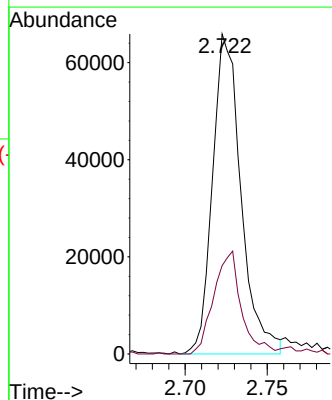
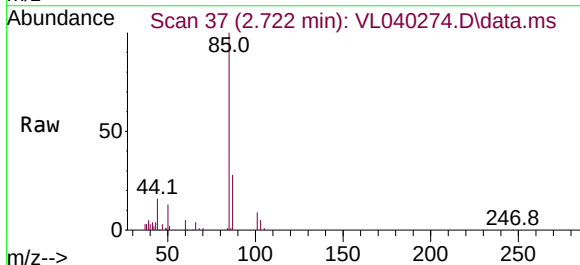
Instrument :
 MSVOA_1
 ClientSampleId :
 OA1

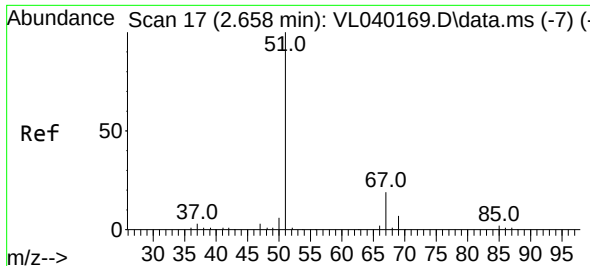
Tgt Ion: 49 Resp: 879468
 Ion Ratio Lower Upper
 49 100
 128 47.3 24.1 72.3
 130 60.6 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.485 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. 0.010 min
 Lab File: VL040274.D
 Acq: 13 Mar 2023 21:08

Tgt Ion: 85 Resp: 79480
 Ion Ratio Lower Upper
 85 100
 87 27.6 27.0 40.6

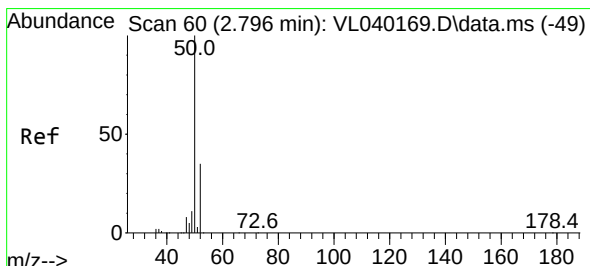
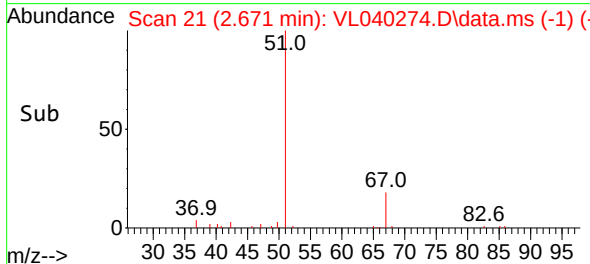
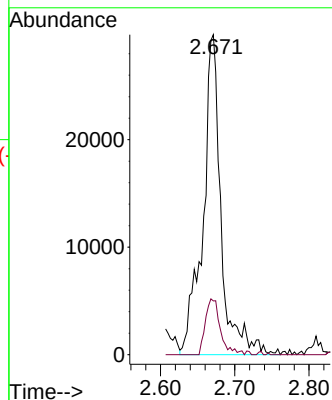
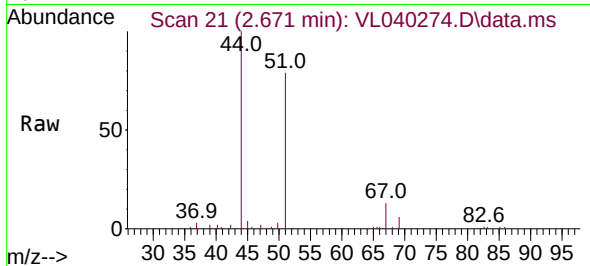




#3
Chlorodifluoromethane
Concen: 0.480 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

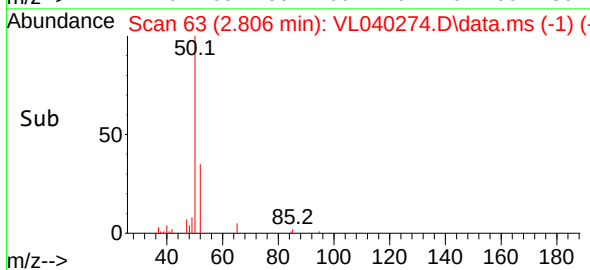
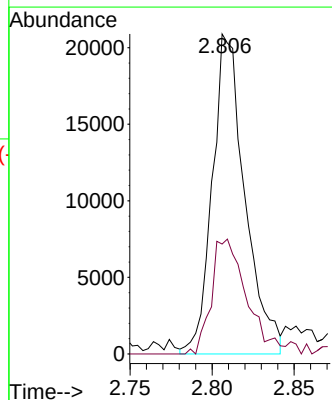
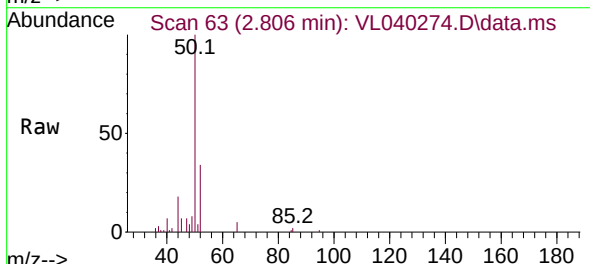
Instrument :
MSVOA_L
ClientSampleId :
OA1

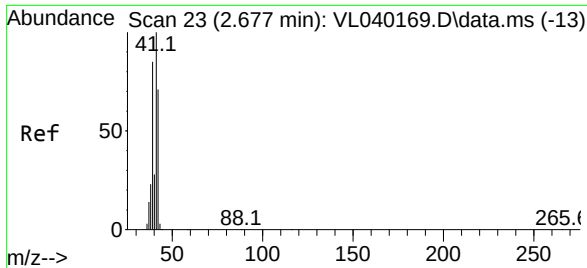
Tgt Ion: 51 Resp: 50428
Ion Ratio Lower Upper
51 100
67 14.5 15.4 23.2#



#4
Chloromethane
Concen: 0.437 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.006 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion: 50 Resp: 28849
Ion Ratio Lower Upper
50 100
52 34.9 28.3 42.5

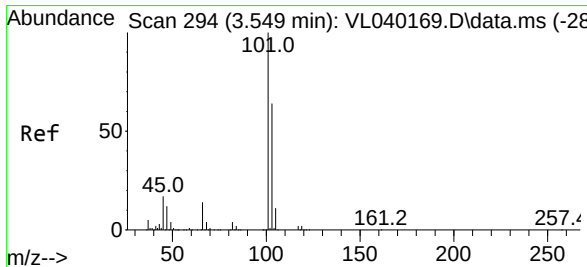
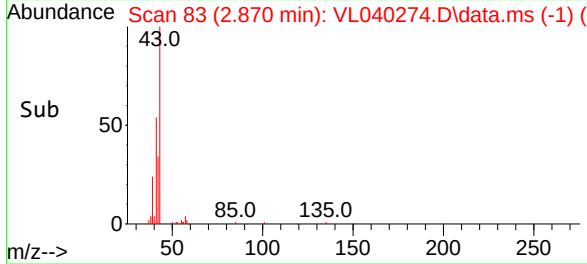
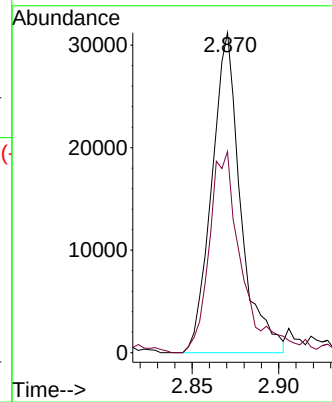
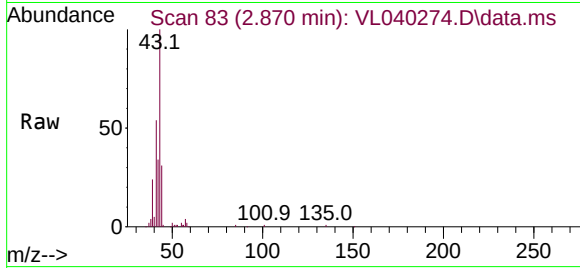




#9
Propene
Concen: 0.845 ppbv
RT: 2.870 min Scan# 81
Delta R.T. 0.193 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

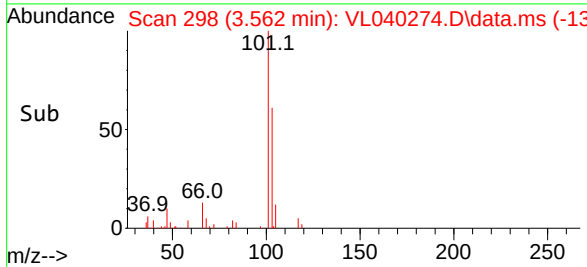
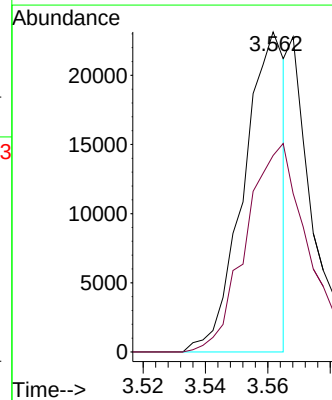
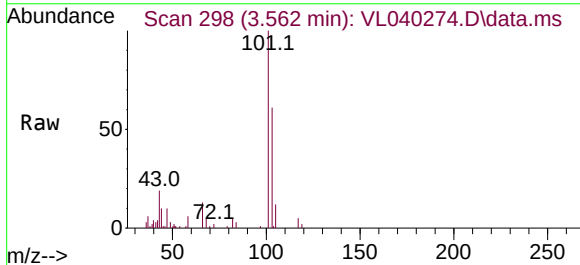
Instrument :
MSVOA_L
ClientSampleId :
OA1

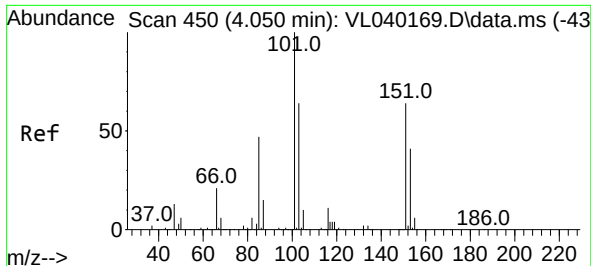
Tgt Ion: 41 Resp: 36179
Ion Ratio Lower Upper
41 100
42 72.7 56.9 85.3



#11
Trichlorofluoromethane
Concen: 0.145 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.010 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion:101 Resp: 21265
Ion Ratio Lower Upper
101 100
103 61.4 51.0 76.6

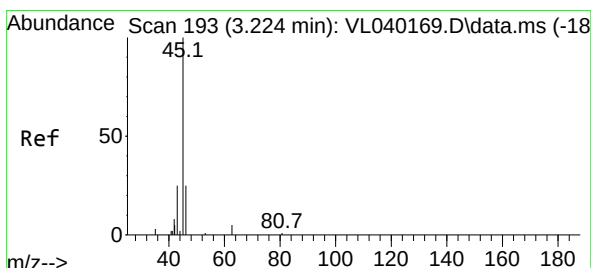
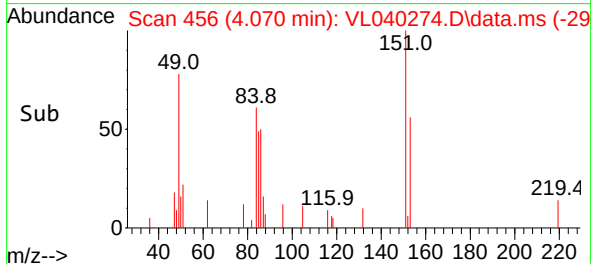
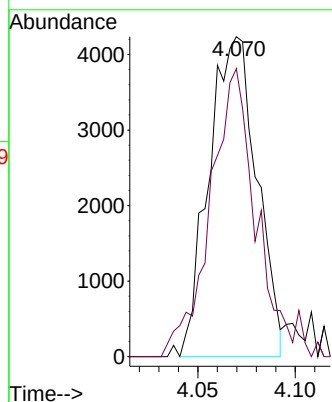
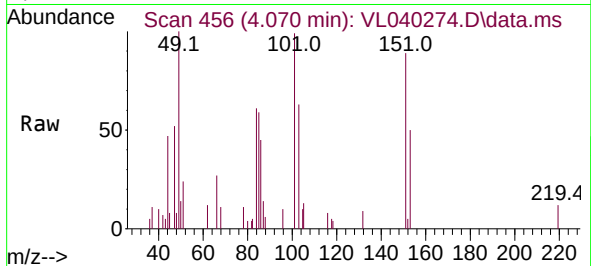




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.067 ppbv
RT: 4.070 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

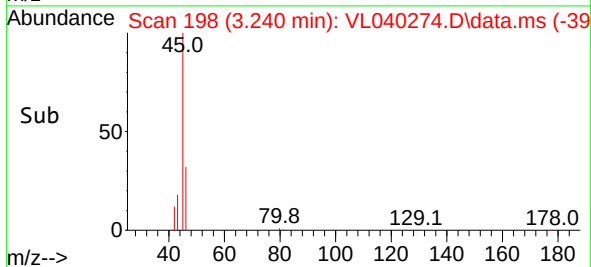
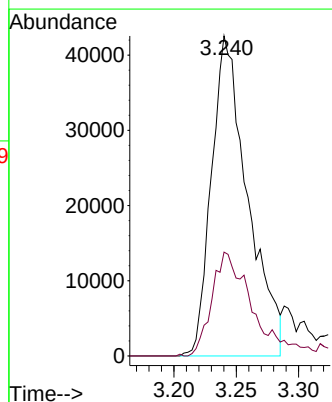
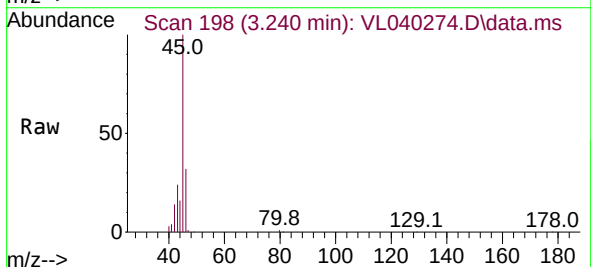
Instrument :
MSVOA_L
ClientSampleId :
OA1

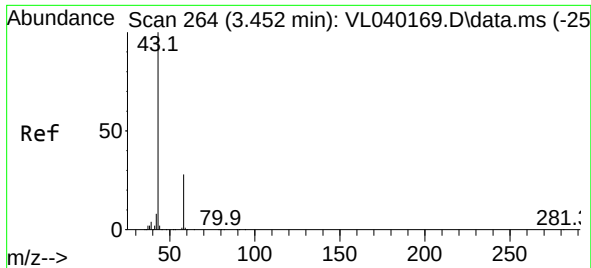
Tgt Ion:101 Resp: 7260
Ion Ratio Lower Upper
101 100
151 87.1 54.7 82.1#



#13
Ethanol
Concen: 21.781 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.010 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion: 45 Resp: 85873
Ion Ratio Lower Upper
45 100
46 36.4 13.3 53.1





#15

Acetone

Concen: 4.057 ppbv

RT: 3.468 min Scan# 2

Delta R.T. 0.013 min

Lab File: VL040274.D

Acq: 13 Mar 2023 21:08

Instrument :

MSVOA_L

ClientSampleId :

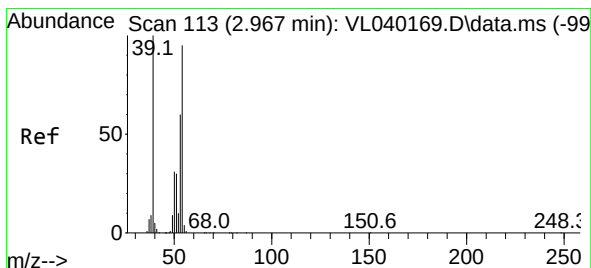
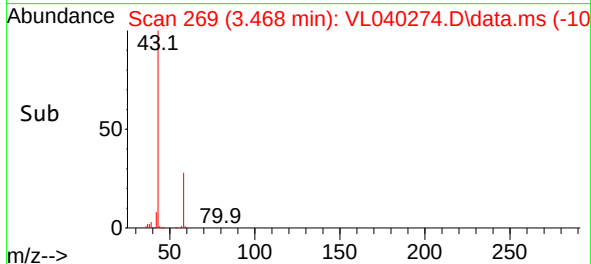
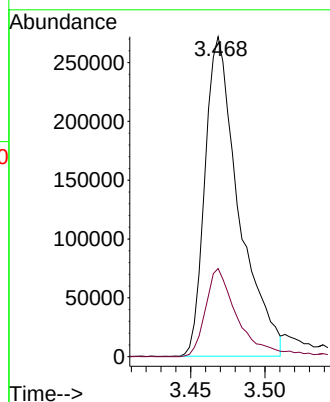
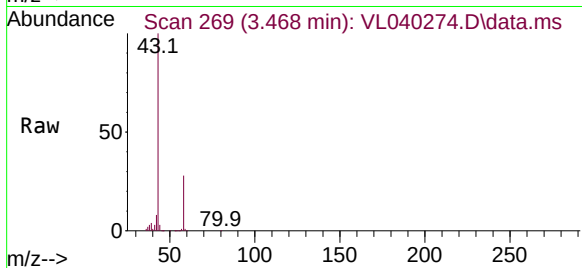
OA1

Tgt Ion: 43 Resp: 429539

Ion Ratio Lower Upper

43 100

58 27.5 22.4 33.6



#16

1,3-Butadiene

Concen: 0.074 ppbv

RT: 2.977 min Scan# 116

Delta R.T. 0.006 min

Lab File: VL040274.D

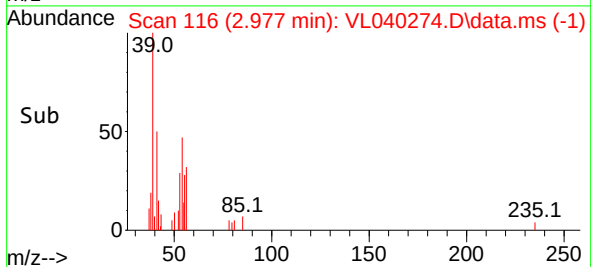
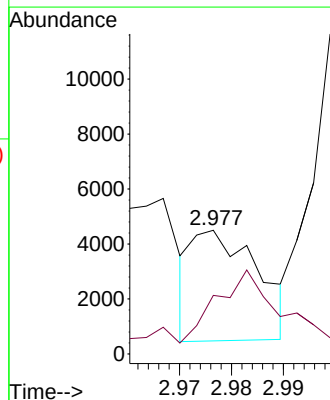
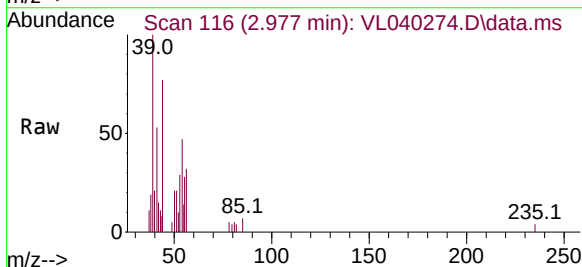
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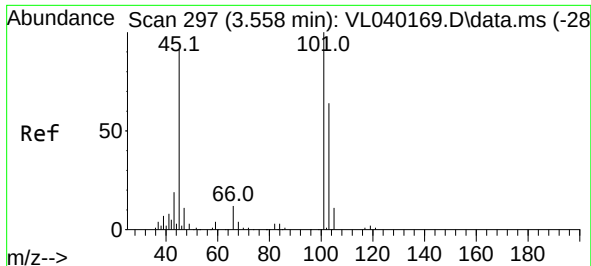
Tgt Ion: 39 Resp: 3571

Ion Ratio Lower Upper

39 100

54 125.5 66.7 100.1#

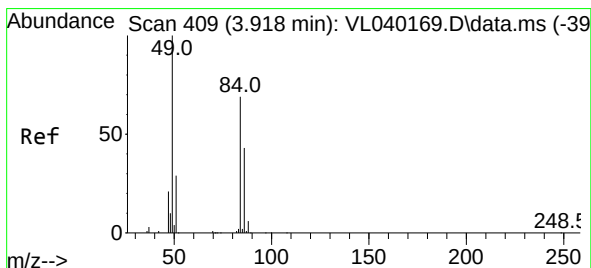
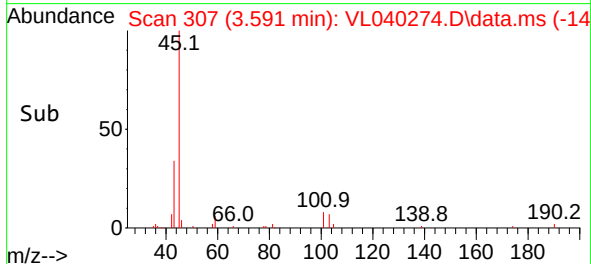
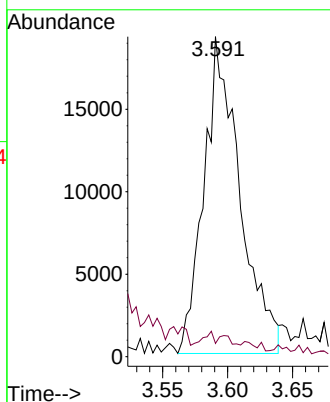
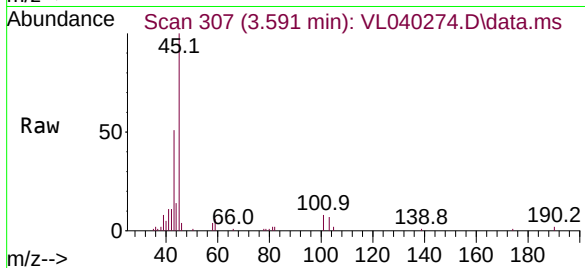




#19
Isopropyl Alcohol
Concen: 0.737 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.029 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

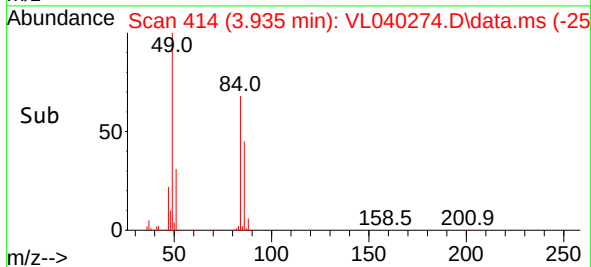
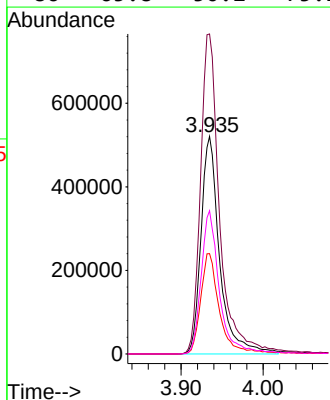
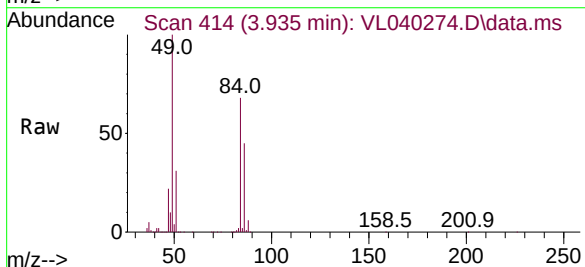
Instrument :
MSVOA_L
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OA1

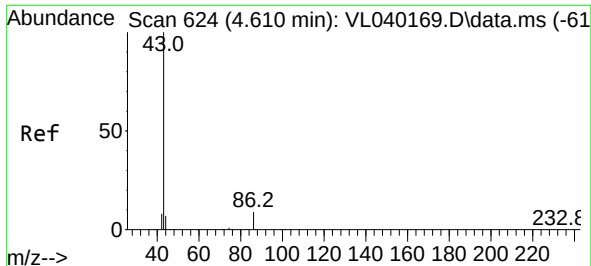
Tgt Ion: 45 Resp: 37081
Ion Ratio Lower Upper
45 100
58 318.7 2.6 3.8#



#20
Methylene Chloride
Concen: 14.942 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion: 84 Resp: 823590
Ion Ratio Lower Upper
84 100
49 147.1 115.5 173.3
51 46.1 33.1 49.7
86 65.8 50.2 75.2



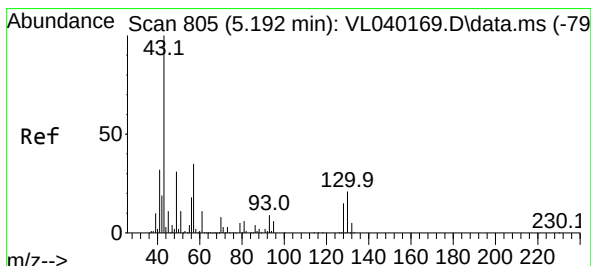
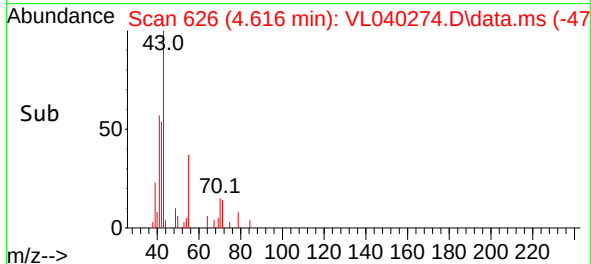
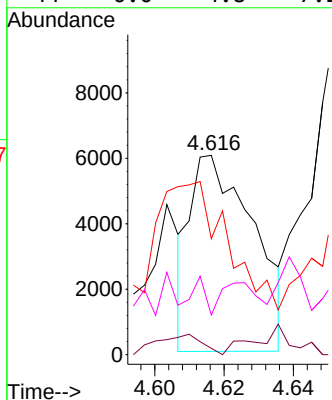
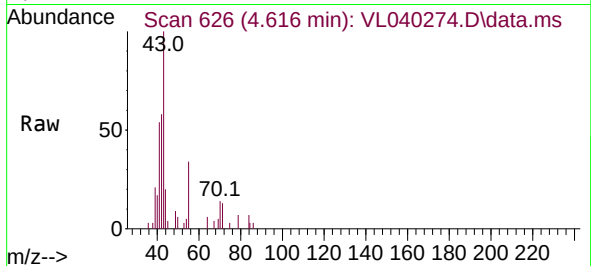


#23
 Vinyl Acetate
 Concen: 0.237 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL040274.D
 Acq: 13 Mar 2023 21:08

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 7605

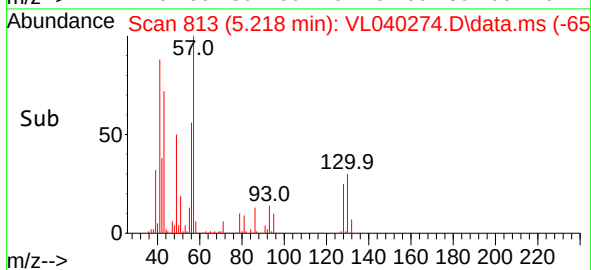
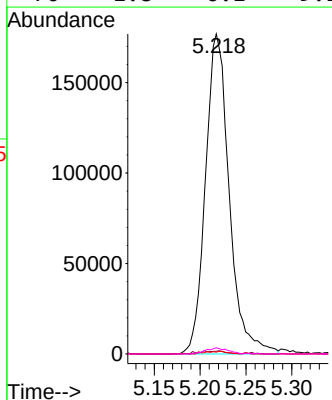
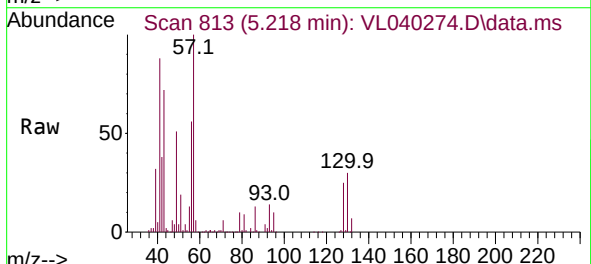
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	64.0	7.6	11.4#
44	0.0	4.8	7.2#

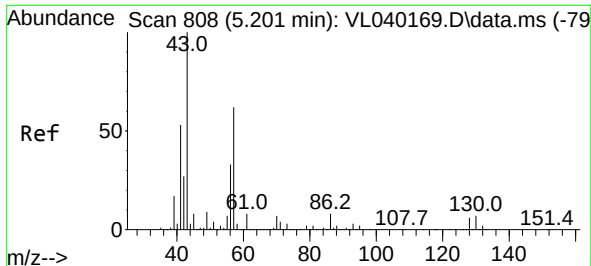


#25
 Ethyl Acetate
 Concen: 1.618 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.019 min
 Lab File: VL040274.D
 Acq: 13 Mar 2023 21:08

Tgt Ion: 43 Resp: 318450

Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.3	12.5#
61	0.8	8.4	12.6#
70	1.8	6.1	9.1#

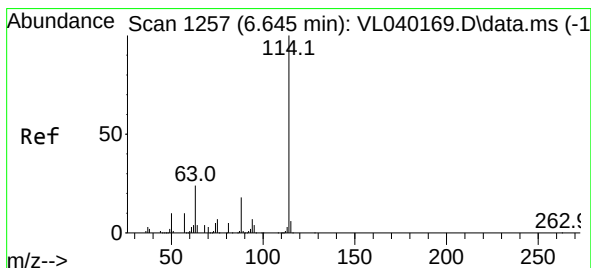
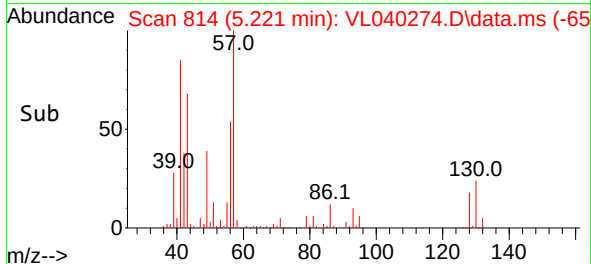
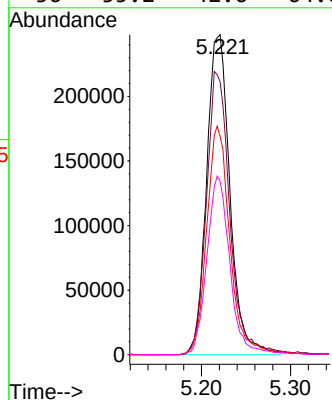
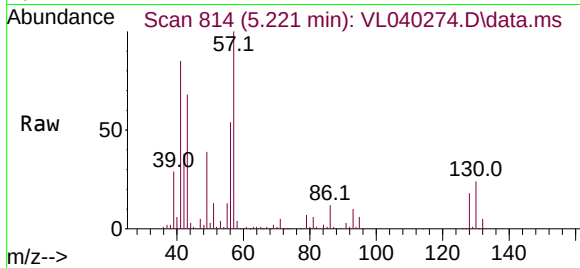




#26
Hexane
Concen: 5.324 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

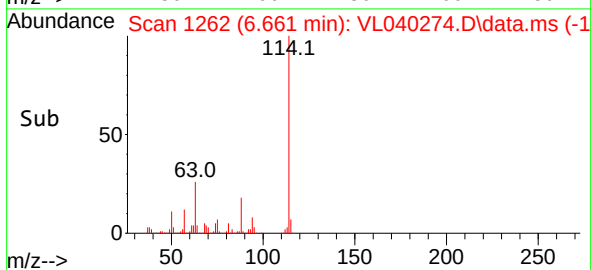
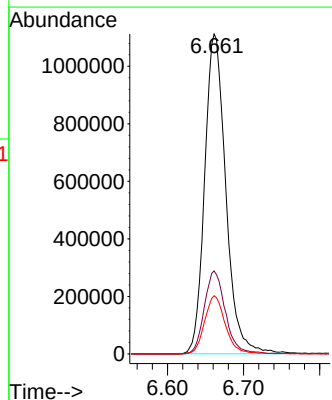
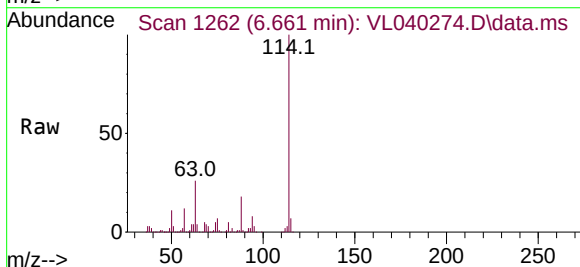
Instrument :
MSVOA_1
ClientSampleId :
OA1

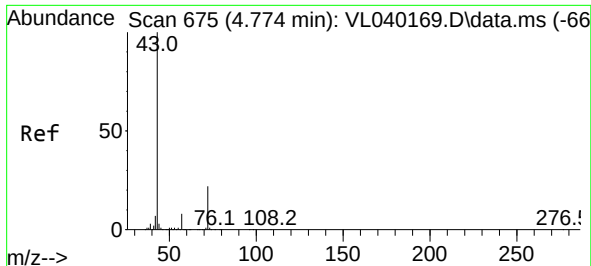
Tgt Ion: 57	Resp: 449892
Ion Ratio	Lower Upper
57 100	
41 90.4	74.3 111.5
43 71.5	193.0 289.4#
56 55.2	42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.006 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion:114	Resp: 2146067		
Ion	Ratio	Lower	Upper
114	100		
63	26.1	20.4	30.6
88	18.0	14.3	21.5

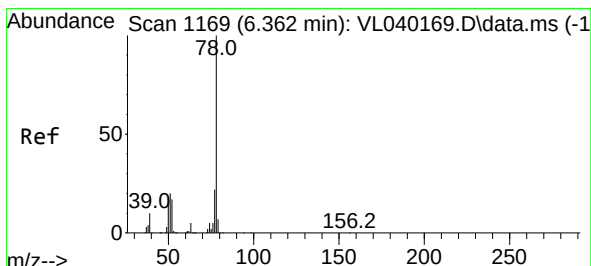
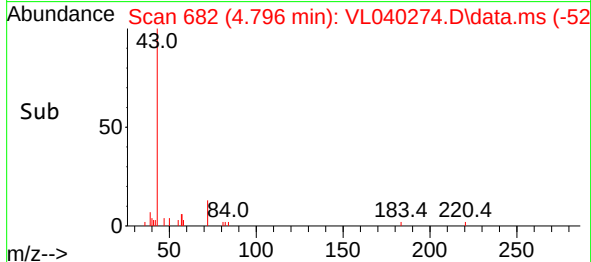
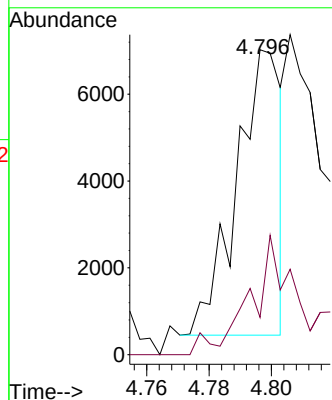
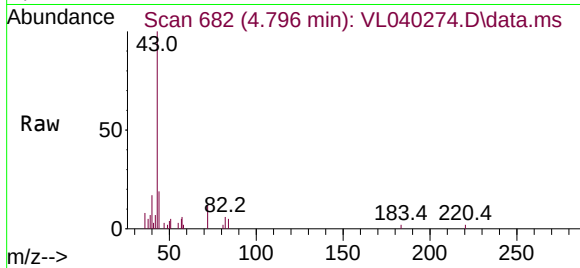




#34
2-Butanone
Concen: 0.062 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

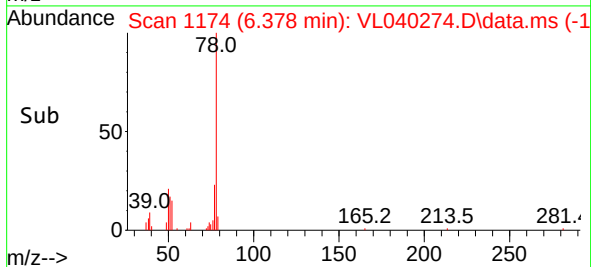
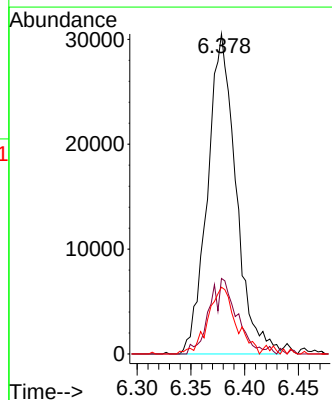
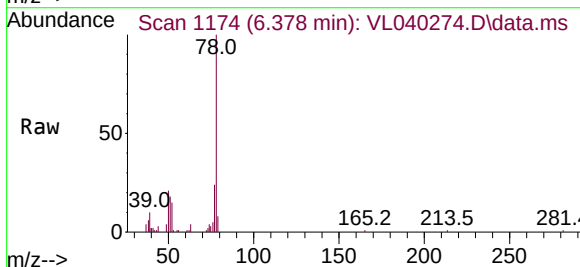
Instrument :
MSVOA_L
ClientSampleId :
OA1

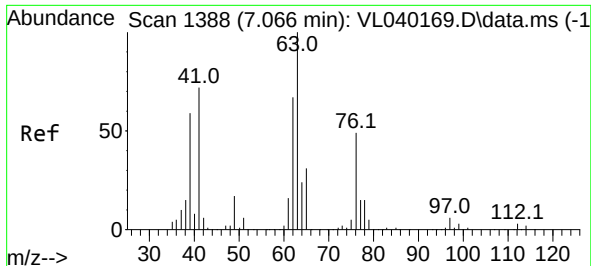
Tgt Ion: 43 Resp: 6515
Ion Ratio Lower Upper
43 100
72 51.1 17.8 26.8#



#36
Benzene
Concen: 0.337 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.010 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion: 78 Resp: 56242
Ion Ratio Lower Upper
78 100
77 23.6 17.5 26.3
50 20.9 14.6 22.0





#39

1,2-Dichloropropane

Concen: 8.561 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.411 min

Lab File: VL040274.D

Acq: 13 Mar 2023 21:08

Instrument :

MSVOA_L

ClientSampleId :

OA1

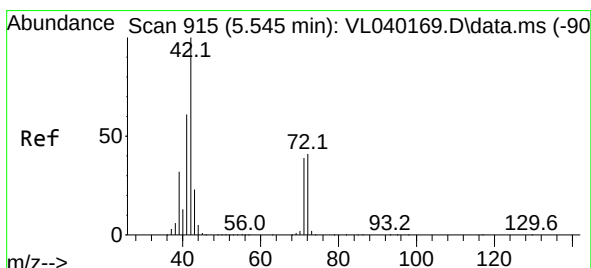
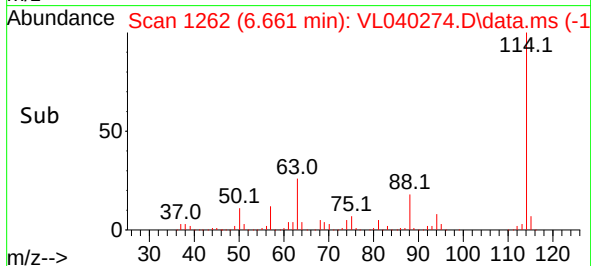
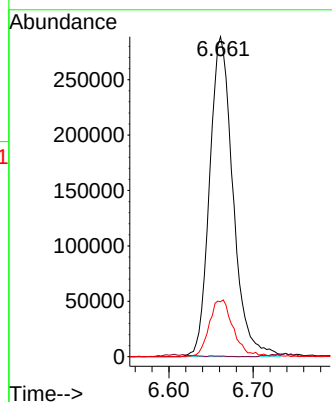
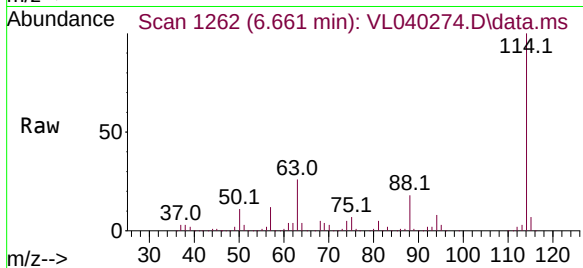
Tgt Ion: 63 Resp: 556185

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.1 54.0 81.0#



#41

Tetrahydrofuran

Concen: 2.799 ppbv

RT: 5.221 min Scan# 814

Delta R.T. -0.331 min

Lab File: VL040274.D

Acq: 13 Mar 2023 21:08

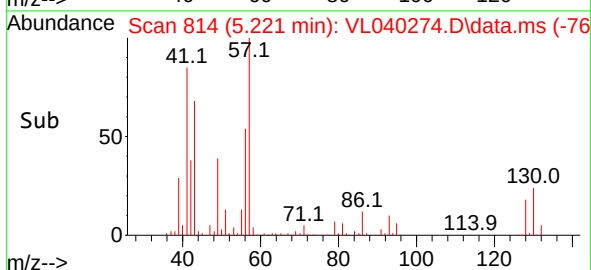
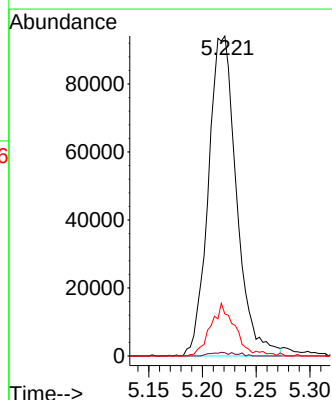
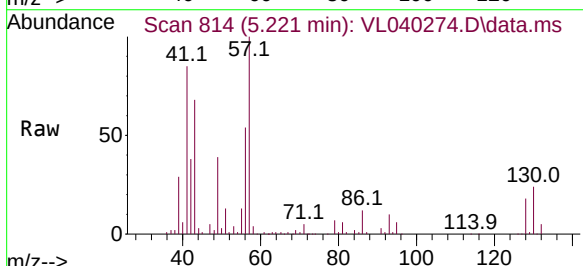
Tgt Ion: 42 Resp: 171687

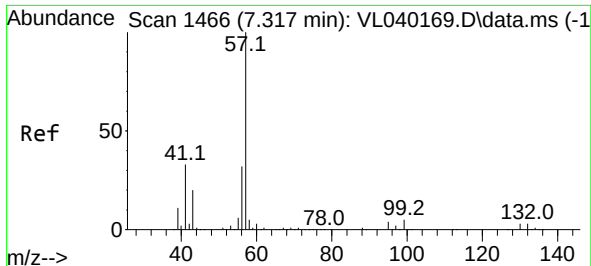
Ion Ratio Lower Upper

42 100

72 1.0 33.0 49.4#

71 14.5 31.4 47.2#





#44

2,2,4-Trimethylpentane

Concen: 0.040 ppbv

RT: 7.336 min Scan# 1466

Delta R.T. 0.010 min

Lab File: VL040274.D

Acq: 13 Mar 2023 21:08

Instrument :

MSVOA_1

ClientSampleId :

OA1

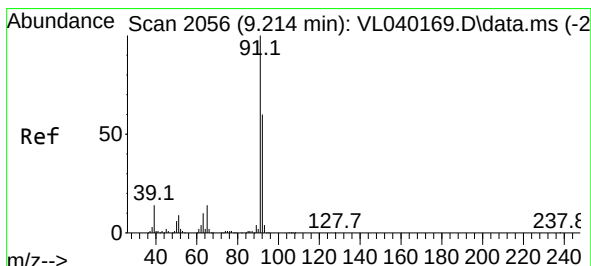
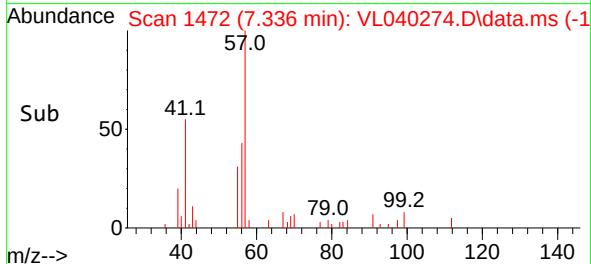
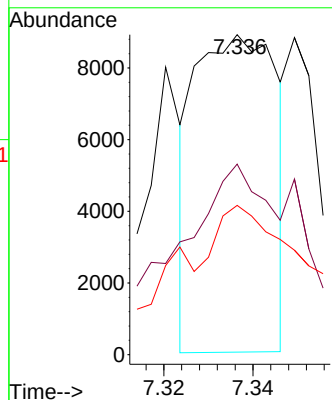
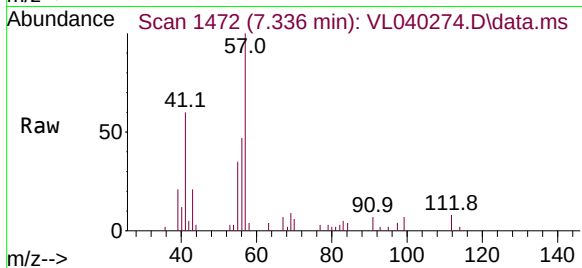
Tgt Ion: 57 Resp: 11197

Ion Ratio Lower Upper

57 100

41 120.5 26.2 39.4#

56 83.7 24.9 37.3#



#53

Toluene

Concen: 0.357 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.010 min

Lab File: VL040274.D

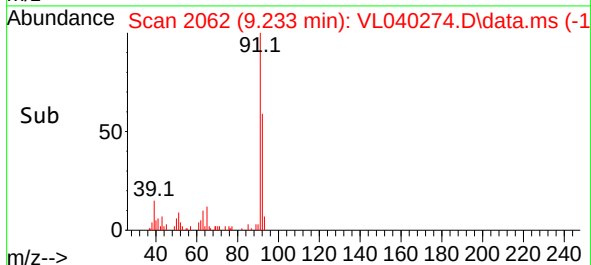
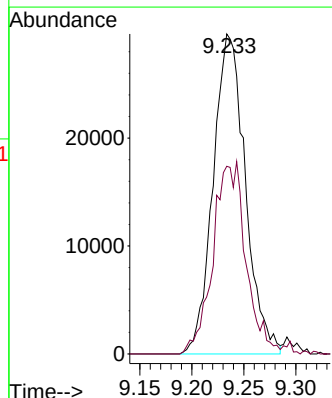
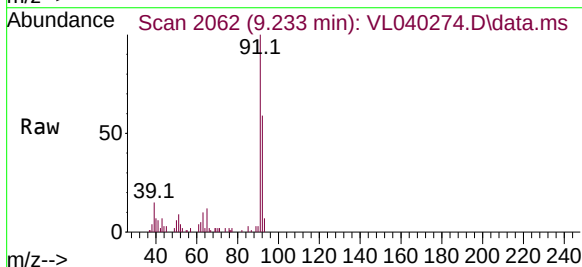
Acq: 13 Mar 2023 21:08

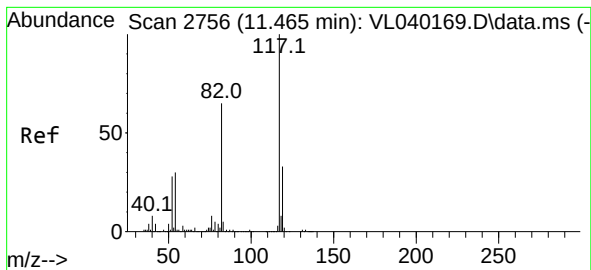
Tgt Ion: 91 Resp: 63900

Ion Ratio Lower Upper

91 100

92 62.2 48.9 73.3

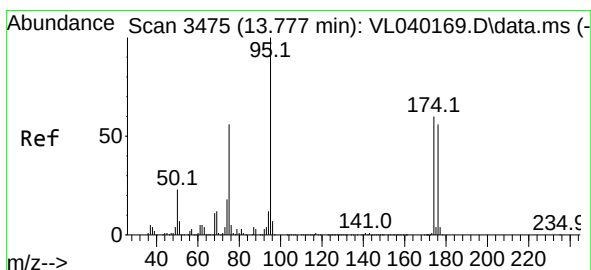
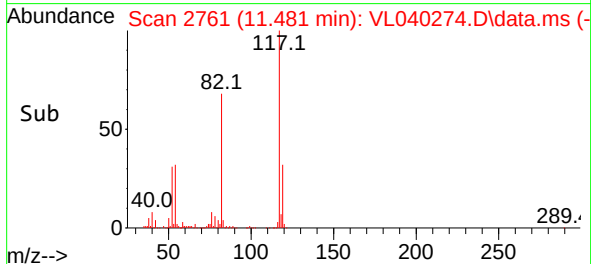
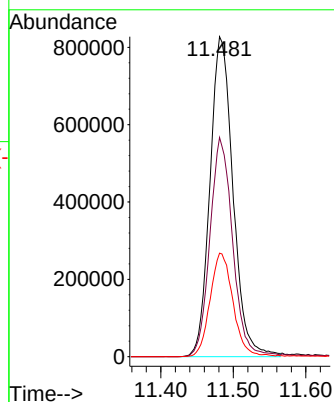
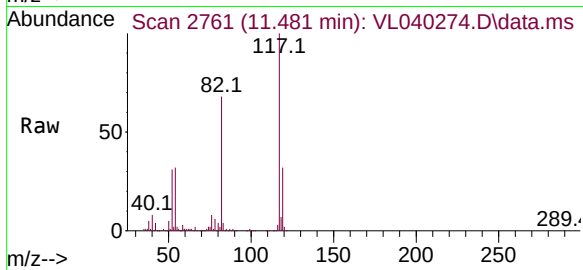




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Instrument :
MSVOA_1
ClientSampleId :
OA1

Tgt Ion:117 Resp: 1827481
Ion Ratio Lower Upper
117 100
82 68.4 53.3 79.9
119 32.8 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.674 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.010 min
Lab File: VL040274.D
Acq: 13 Mar 2023 21:08

Tgt Ion: 95 Resp: 1453737
Ion Ratio Lower Upper
95 100
174 58.1 48.2 72.2
175 4.1 3.4 5.2

