

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040615.D
 Acq On : 9 Aug 2023 21:21
 Operator : SY/MD
 Sample : 03950-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

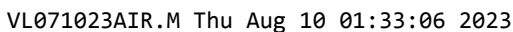
Quant Time: Aug 10 01:32:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

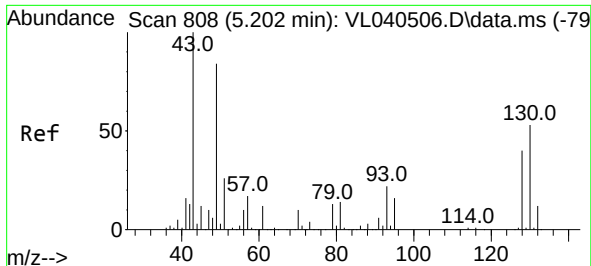
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.189	49	921666	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2209527	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	1939392	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1614689	10.520	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.200%	
Target Compounds						
						Qvalue
3) Chlorodifluoromethane	2.661	51	103867	0.711	ppbv	97
4) Chloromethane	2.803	50	32195	0.556	ppbv	96
9) Propene	2.690	41	28926	0.578	ppbv	92
11) Trichlorofluoromethane	3.555	101	45329	0.305	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.067	101	8144	0.078	ppbv	98
13) Ethanol	3.234	45	81817	7.519	ppbv	89
15) Acetone	3.459	43	707705	6.671	ppbv	99
19) Isopropyl Alcohol	3.578	45	59725	0.981	ppbv #	96
20) Methylene Chloride	3.928	84	732965	16.242	ppbv	98
23) Vinyl Acetate	4.613	43	14658	0.145	ppbv #	67
25) Ethyl Acetate	5.211	43	227412	1.126	ppbv #	78
26) Hexane	5.208	57	322937	3.442	ppbv #	39
34) 2-Butanone	4.796	43	14501	0.133	ppbv #	69
35) Carbon Tetrachloride	6.491	117	6105	0.046	ppbv	94
36) Benzene	6.378	78	9235	0.052	ppbv #	84
39) 1,2-Dichloropropane	6.655	63	591878	8.648	ppbv #	26
41) Tetrahydrofuran	5.208	42	135064	2.120	ppbv #	46
44) 2,2,4-Trimethylpentane	7.330	57	10929	0.038	ppbv #	27
53) Toluene	9.221	91	11541	0.060	ppbv #	20

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

Quant Time: Aug 10 01:32:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

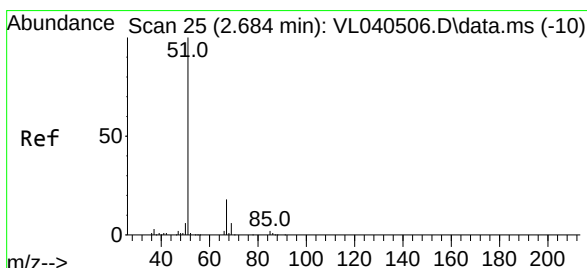
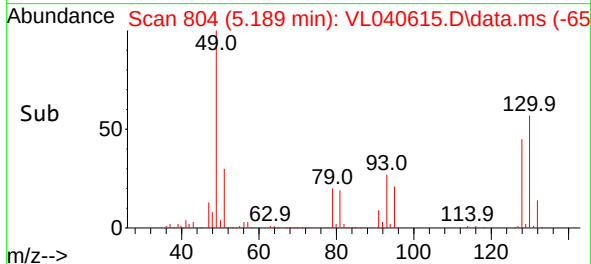
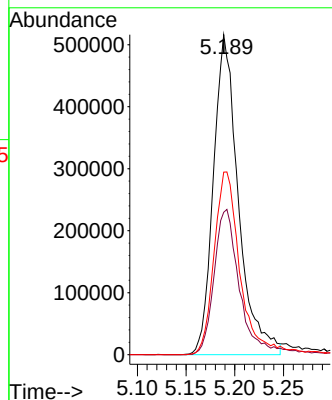
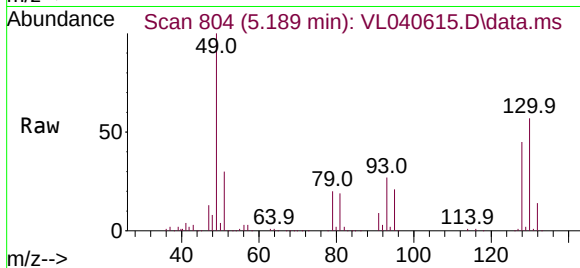




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

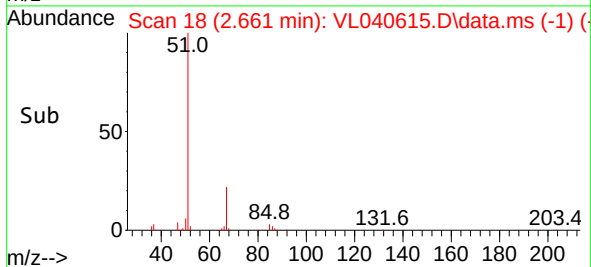
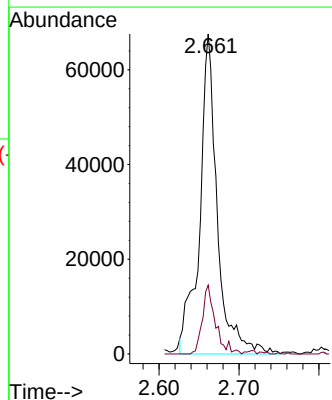
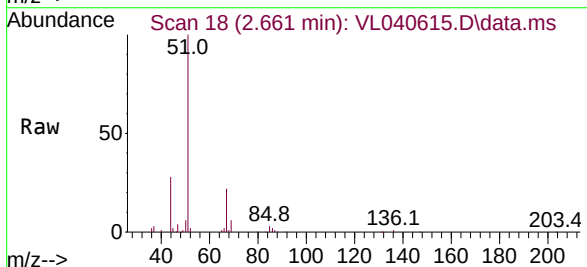
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

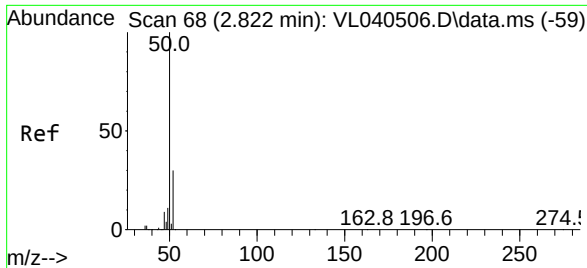
Tgt Ion: 49 Resp: 921666
Ion Ratio Lower Upper
49 100
128 47.8 25.1 75.4
130 61.3 31.6 94.7



#3
Chlorodifluoromethane
Concen: 0.711 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.022 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 51 Resp: 103867
Ion Ratio Lower Upper
51 100
67 16.7 14.6 21.8

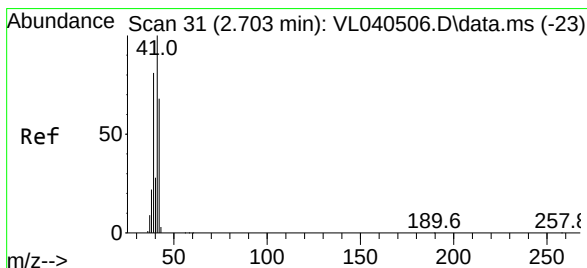
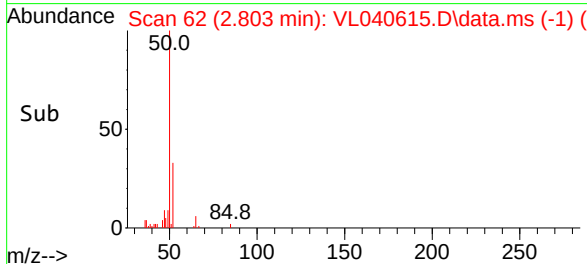
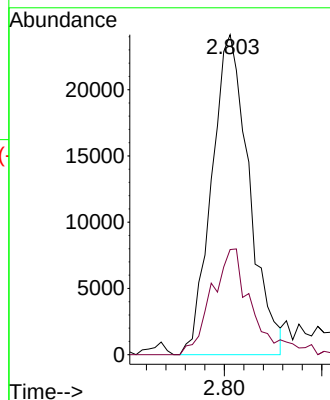
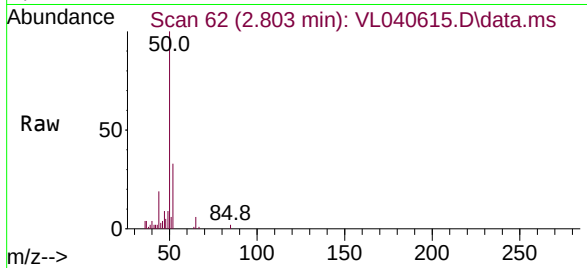




#4
Chloromethane
Concen: 0.556 ppbv
RT: 2.803 min Scan# 61
Delta R.T. -0.019 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

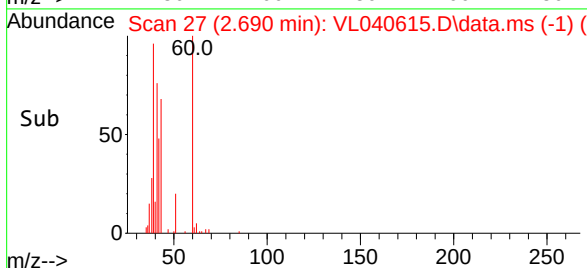
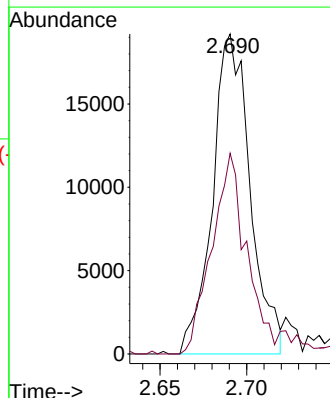
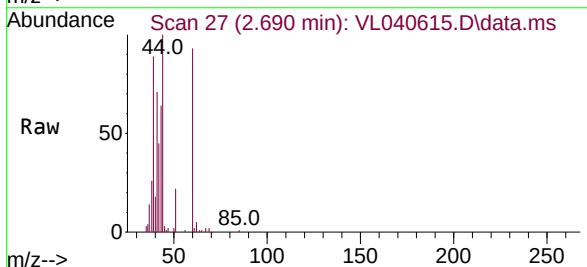
Instrument :
MSVOA_L
ClientSampleId :
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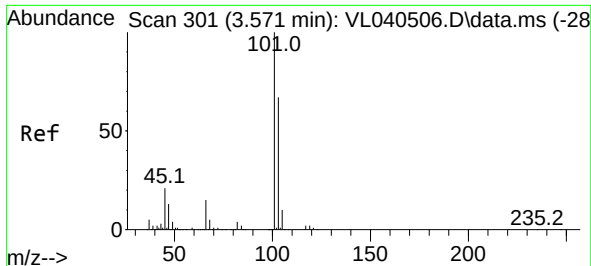
Tgt Ion: 50 Resp: 32195
Ion Ratio Lower Upper
50 100
52 32.8 24.4 36.6



#9
Propene
Concen: 0.578 ppbv
RT: 2.690 min Scan# 27
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 41 Resp: 28926
Ion Ratio Lower Upper
41 100
42 62.2 55.0 82.6

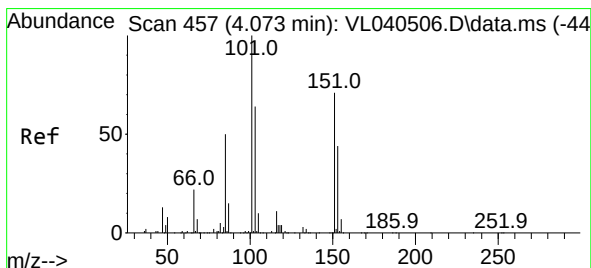
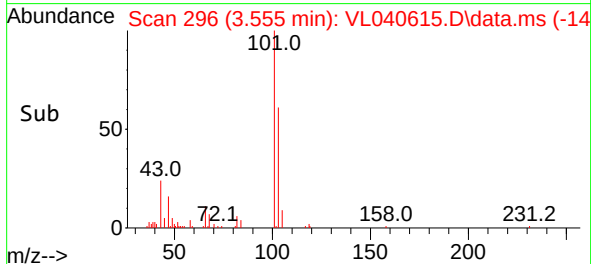
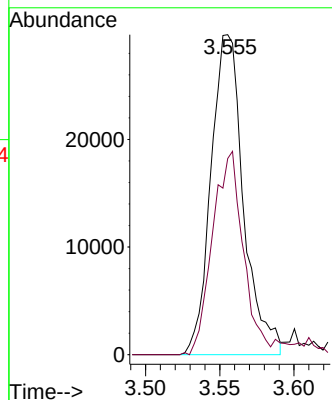
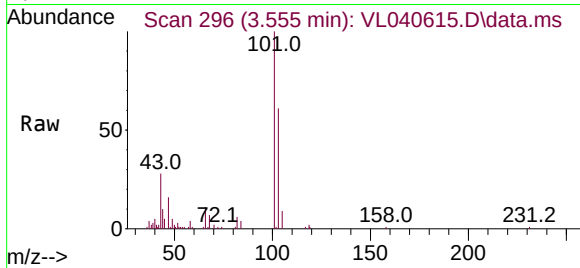




#11
 Trichlorofluoromethane
 Concen: 0.305 ppbv
 RT: 3.555 min Scan# 296
 Delta R.T. -0.016 min
 Lab File: VL040615.D
 Acq: 9 Aug 2023 21:21

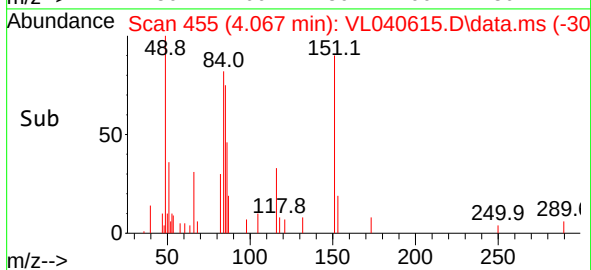
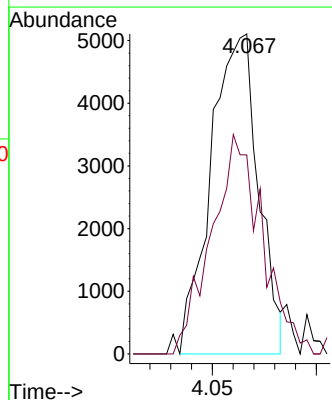
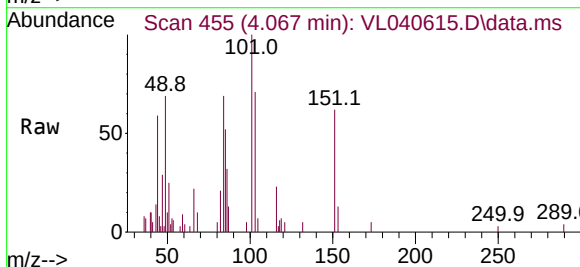
Instrument :
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 ClientSampleId :
 OA1DUP

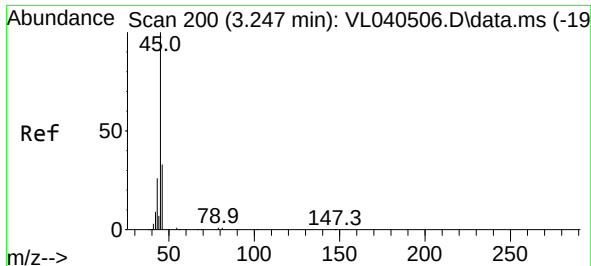
Tgt Ion:101 Resp: 45329
 Ion Ratio Lower Upper
 101 100
 103 61.3 53.4 80.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 4.067 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: VL040615.D
 Acq: 9 Aug 2023 21:21

Tgt Ion:101 Resp: 8144
 Ion Ratio Lower Upper
 101 100
 151 74.2 58.2 87.4

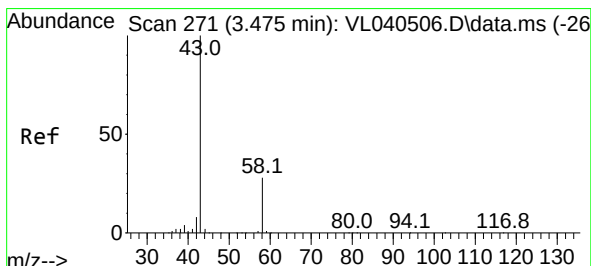
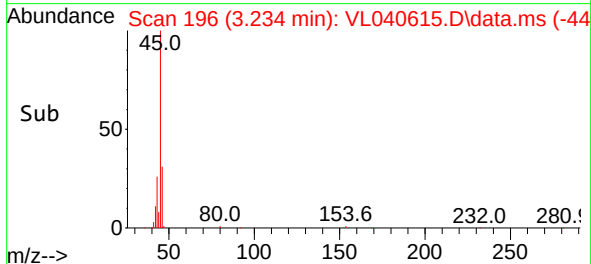
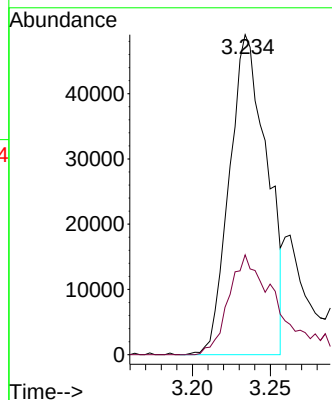
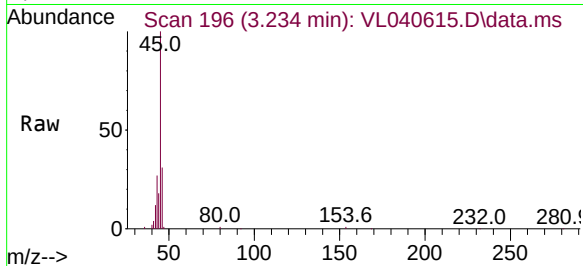




#13
Ethanol
Concen: 7.519 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

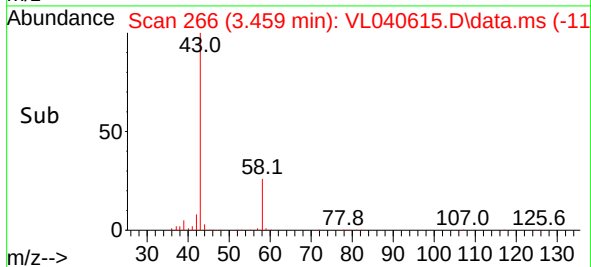
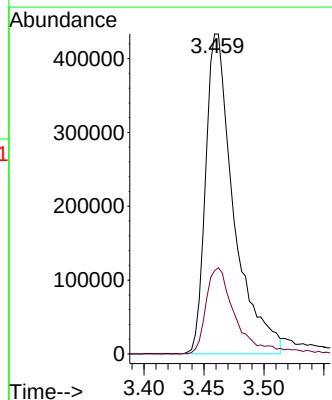
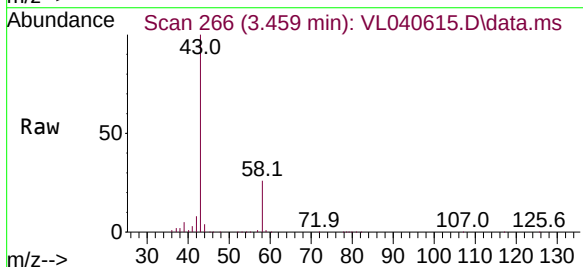
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

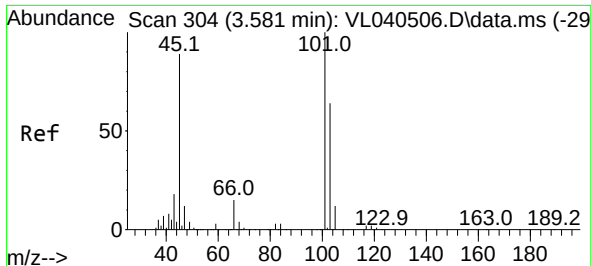
Tgt Ion: 45 Resp: 81817
Ion Ratio Lower Upper
45 100
46 44.7 15.3 61.1



#15
Acetone
Concen: 6.671 ppbv
RT: 3.459 min Scan# 266
Delta R.T. -0.016 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 43 Resp: 707705
Ion Ratio Lower Upper
43 100
58 29.3 22.9 34.3

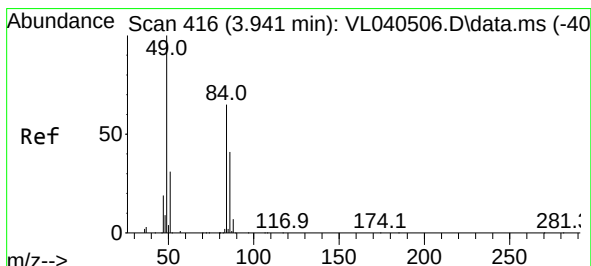
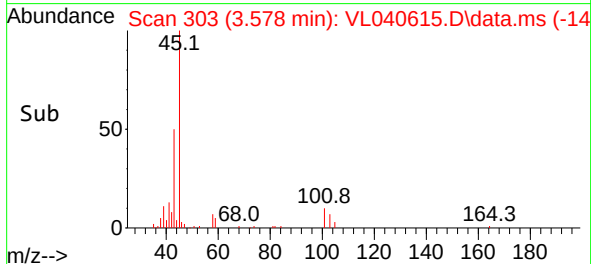
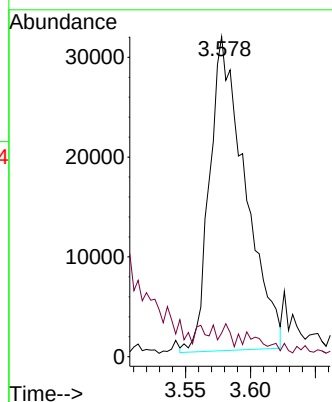
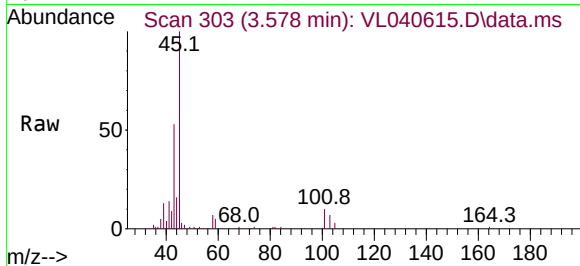




#19
Isopropyl Alcohol
Concen: 0.981 ppbv
RT: 3.578 min Scan# 304
Delta R.T. -0.003 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

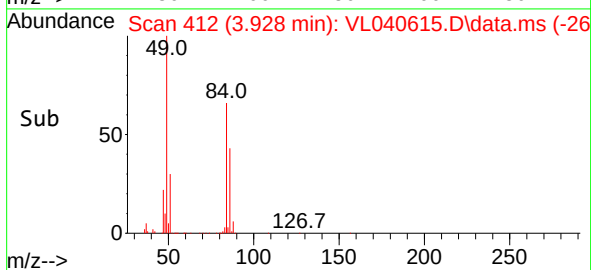
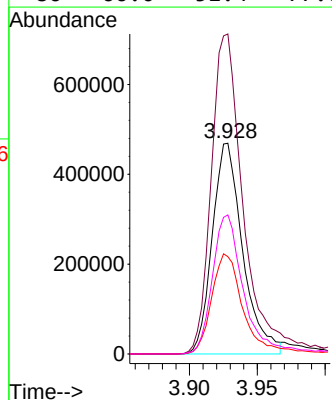
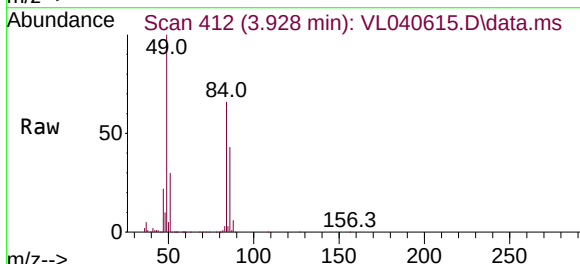
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ClientSampleId :
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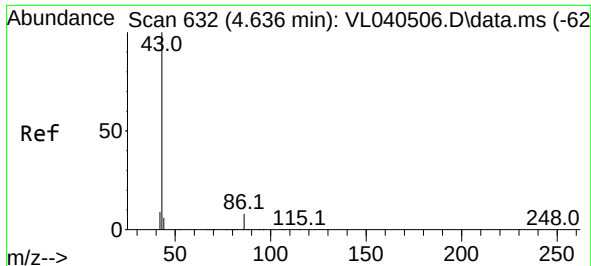
Tgt Ion: 45 Resp: 59725
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#



#20
Methylene Chloride
Concen: 16.242 ppbv
RT: 3.928 min Scan# 412
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 84 Resp: 732965
Ion Ratio Lower Upper
84 100
49 151.8 123.4 185.2
51 46.1 38.3 57.5
86 66.0 51.4 77.0

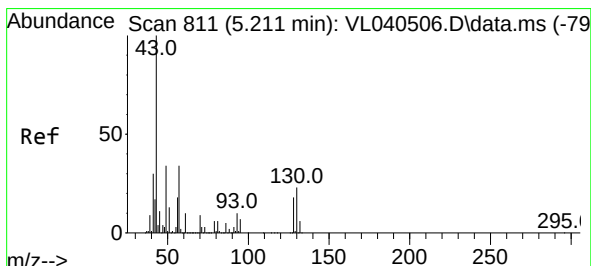
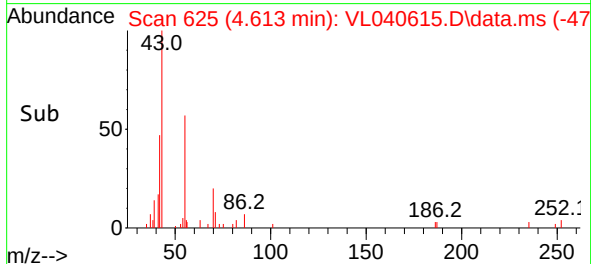
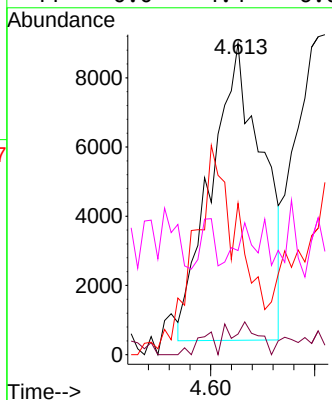
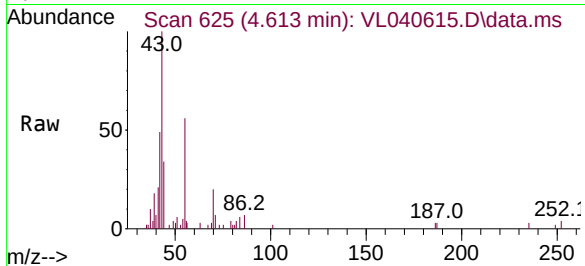




#23
 Vinyl Acetate
 Concen: 0.145 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.022 min
 Lab File: VL040615.D
 Acq: 9 Aug 2023 21:21

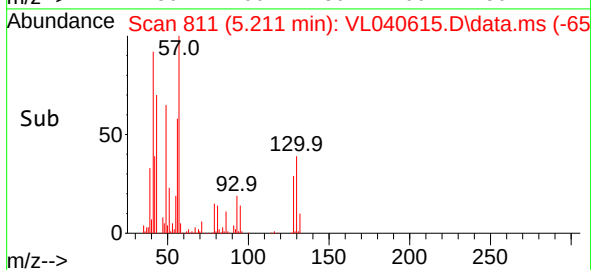
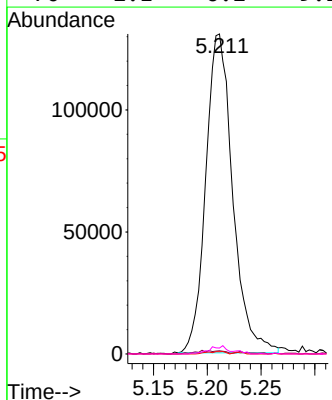
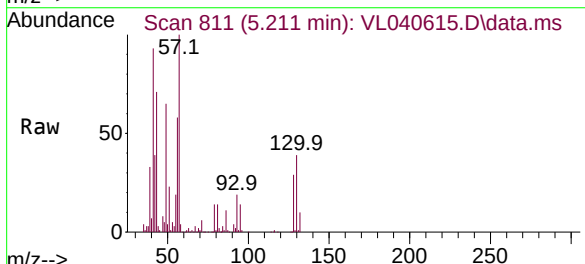
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 OA1DUP

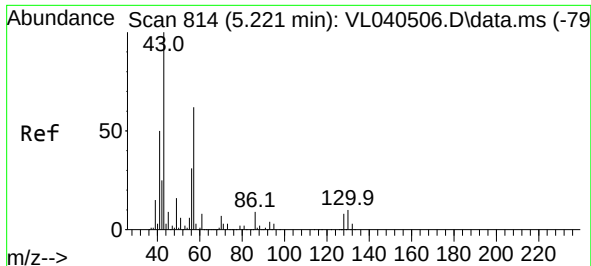
Tgt Ion:	43	Resp:	14658
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.6	8.4
42	34.0	7.4	11.2#
44	0.0	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 1.126 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.000 min
 Lab File: VL040615.D
 Acq: 9 Aug 2023 21:21

Tgt Ion:	43	Resp:	227412
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.2	12.4#
61	0.7	8.3	12.5#
70	2.1	6.2	9.2#

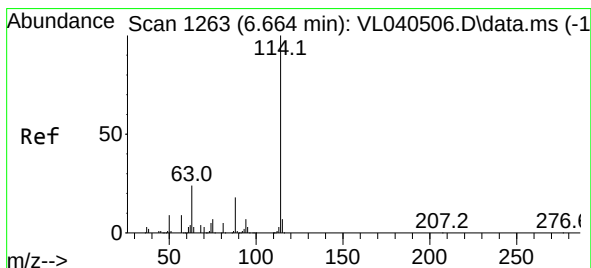
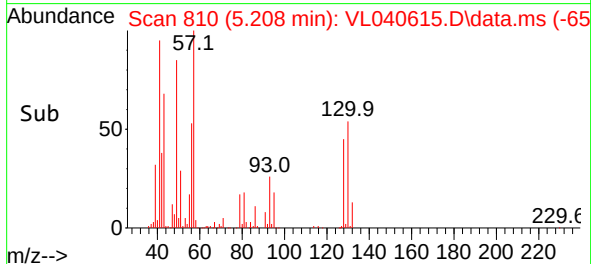
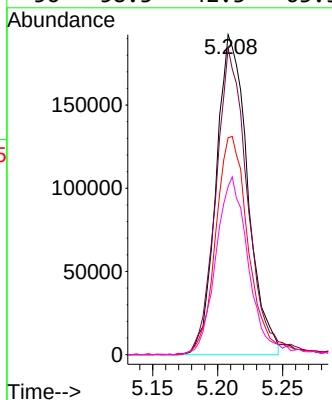
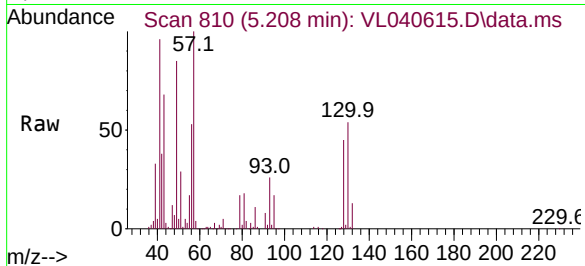




#26
Hexane
Concen: 3.442 ppbv
RT: 5.208 min Scan# 814
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

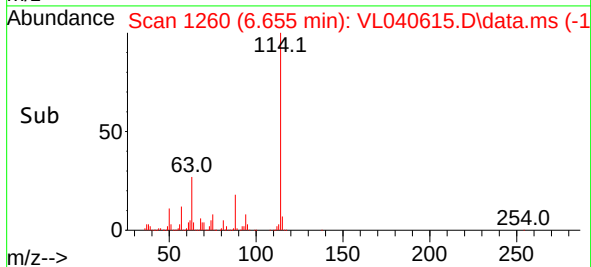
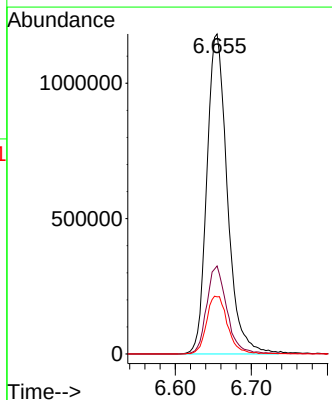
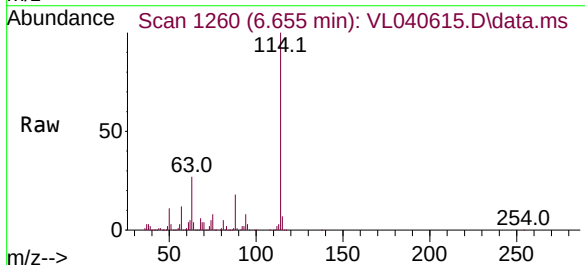
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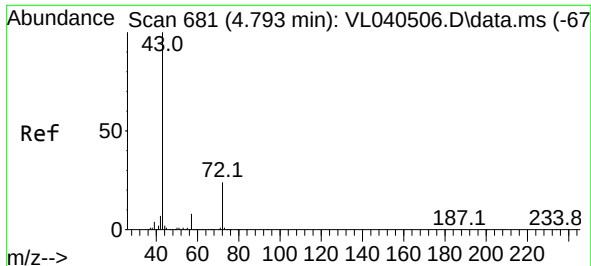
Tgt Ion: 57 Resp: 322937
Ion Ratio Lower Upper
57 100
41 98.1 69.5 104.3
43 71.9 177.1 265.7#
56 58.3 42.3 63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.010 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 114 Resp: 2209527
Ion Ratio Lower Upper
114 100
63 27.4 19.6 29.4
88 18.6 14.2 21.2

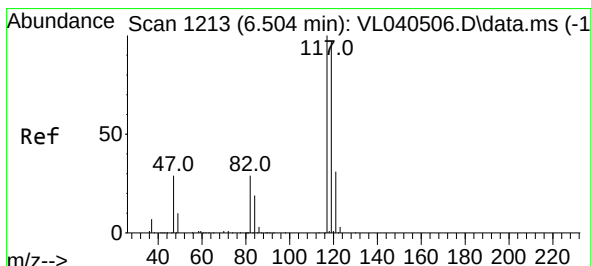
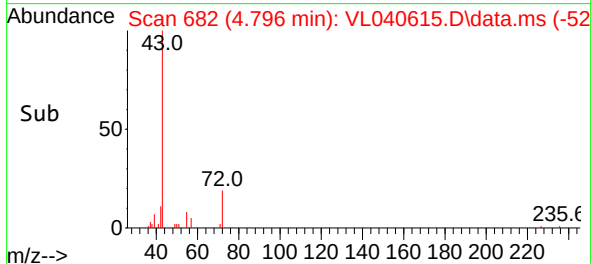
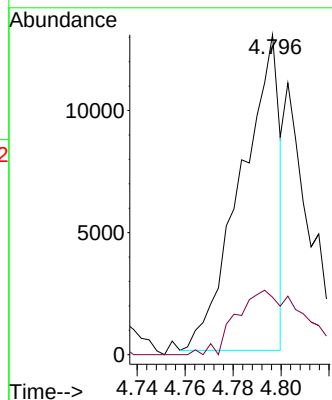
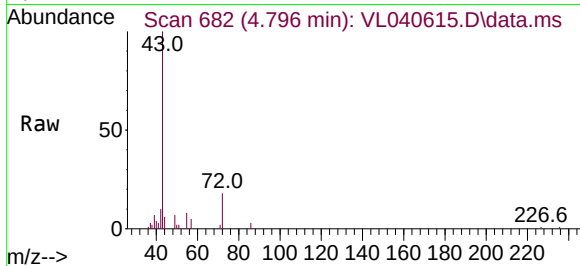




#34
2-Butanone
Concen: 0.133 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

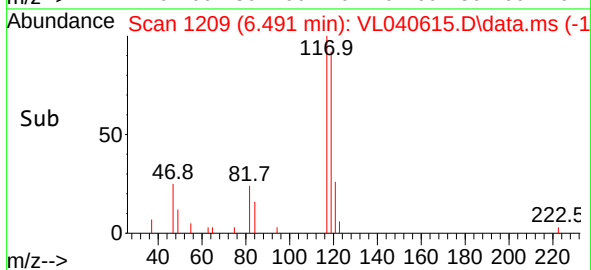
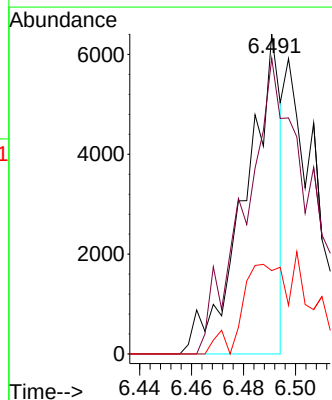
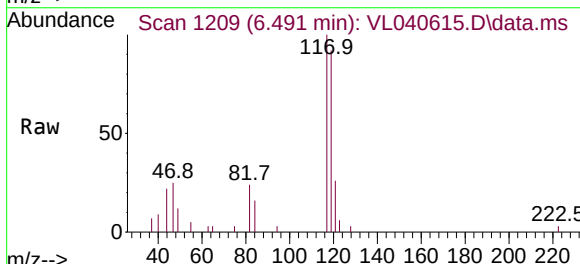
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

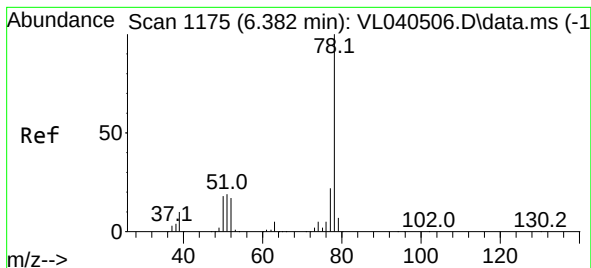
Tgt Ion: 43 Resp: 14501
Ion Ratio Lower Upper
43 100
72 39.3 19.1 28.7#



#35
Carbon Tetrachloride
Concen: 0.046 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.013 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 117 Resp: 6105
Ion Ratio Lower Upper
117 100
119 92.4 77.8 116.6
121 26.1 24.8 37.2





#36

Benzene

Concen: 0.052 ppbv

RT: 6.378 min Scan# 1175

Delta R.T. -0.003 min

Lab File: VL040615.D

Acq: 9 Aug 2023 21:21

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

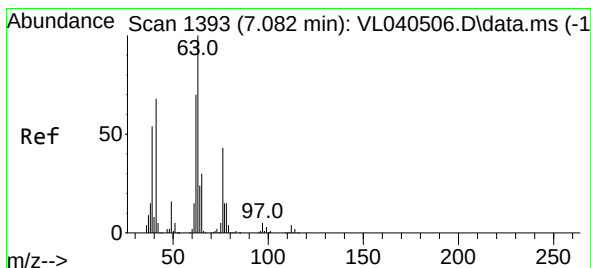
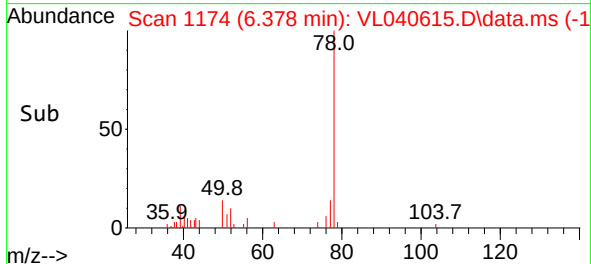
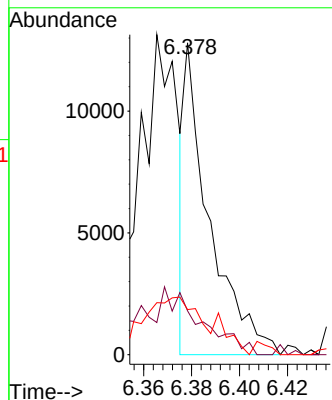
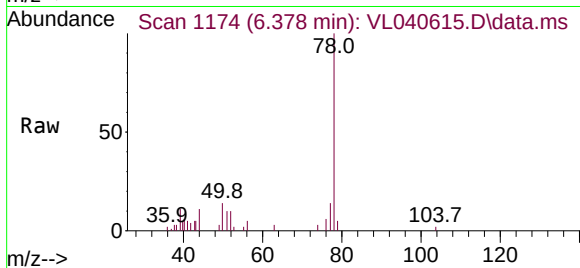
Tgt Ion: 78 Resp: 9235

Ion Ratio Lower Upper

78 100

77 10.8 17.4 26.0#

50 14.5 14.4 21.6



#39

1,2-Dichloropropane

Concen: 8.648 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.428 min

Lab File: VL040615.D

Acq: 9 Aug 2023 21:21

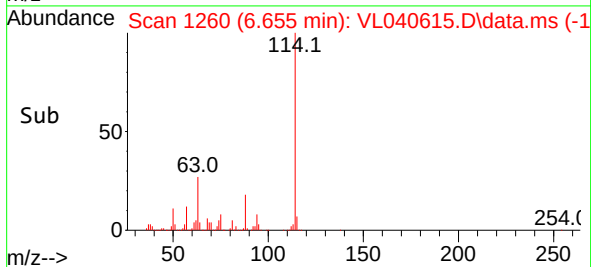
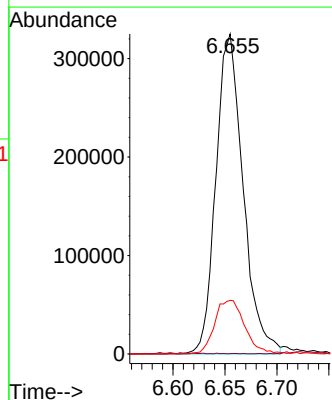
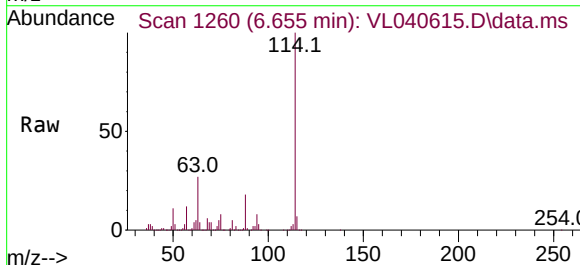
Tgt Ion: 63 Resp: 591878

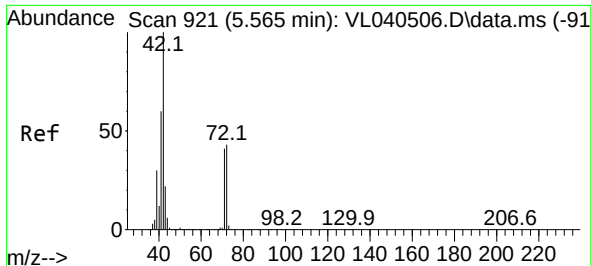
Ion Ratio Lower Upper

63 100

41 0.1 54.3 81.5#

62 16.8 55.6 83.4#

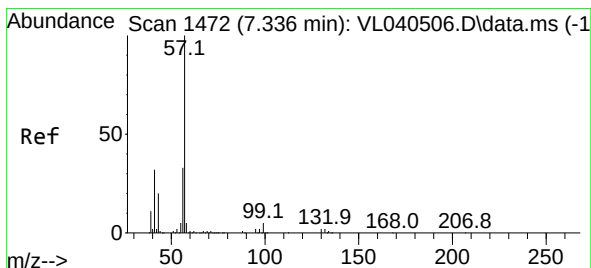
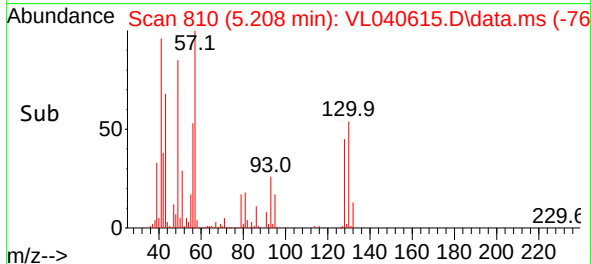
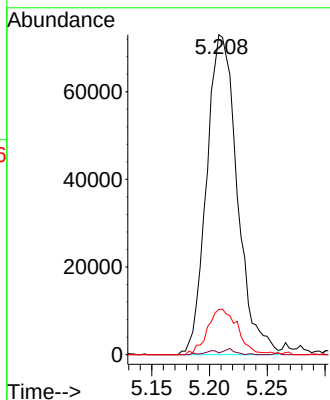
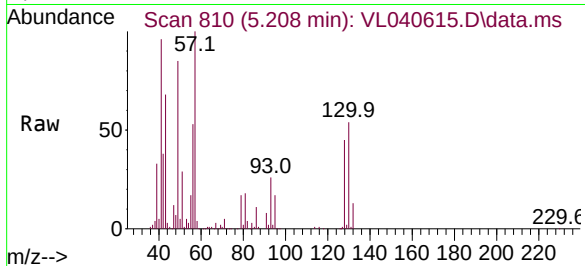




#41
Tetrahydrofuran
Concen: 2.120 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.357 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

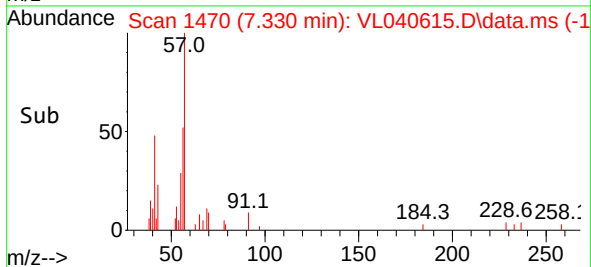
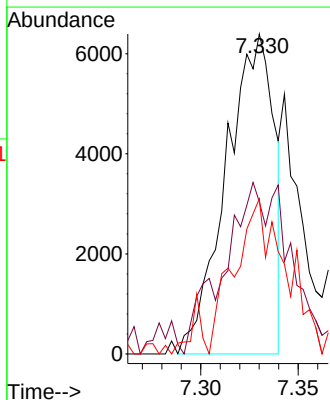
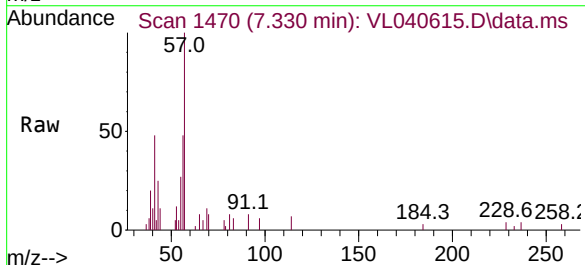
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

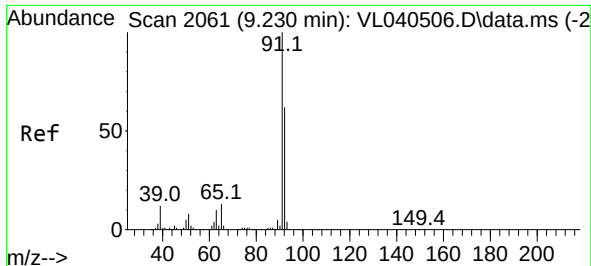
Tgt Ion: 42 Resp: 135064
Ion Ratio Lower Upper
42 100
72 1.3 33.8 50.8#
71 14.4 33.0 49.6#



#44
2,2,4-Trimethylpentane
Concen: 0.038 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 57 Resp: 10929
Ion Ratio Lower Upper
57 100
41 83.4 25.5 38.3#
56 60.8 25.1 37.7#

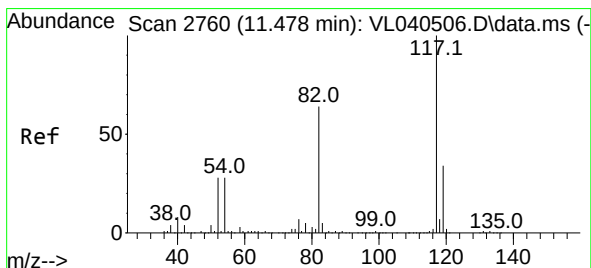
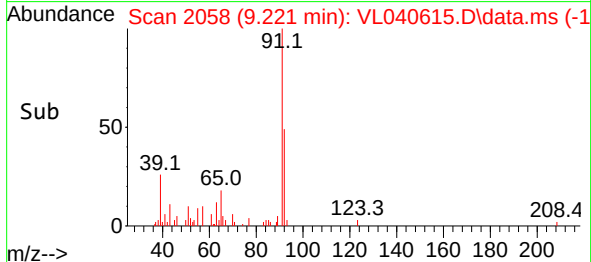
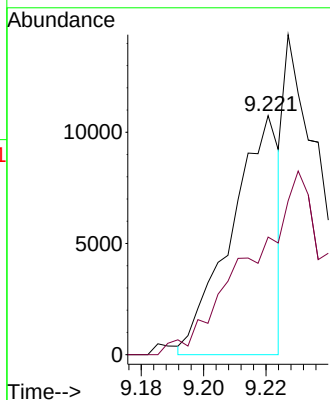
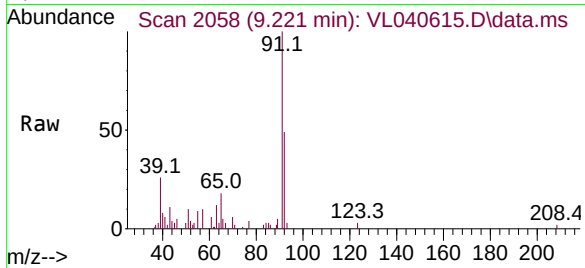




#53
Toluene
Concen: 0.060 ppbv
RT: 9.221 min Scan# 2061
Delta R.T. -0.010 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

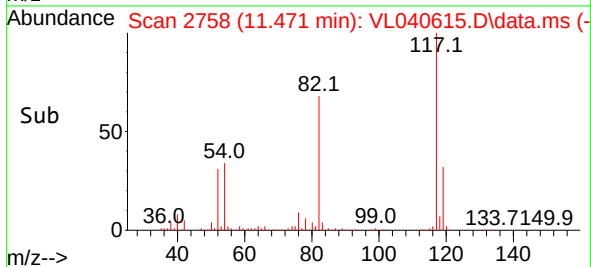
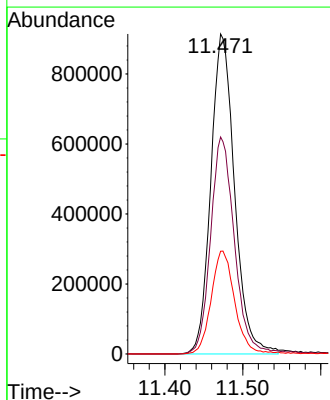
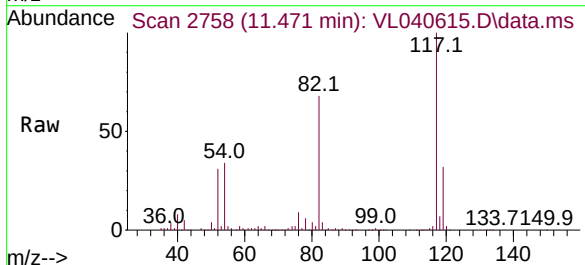
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

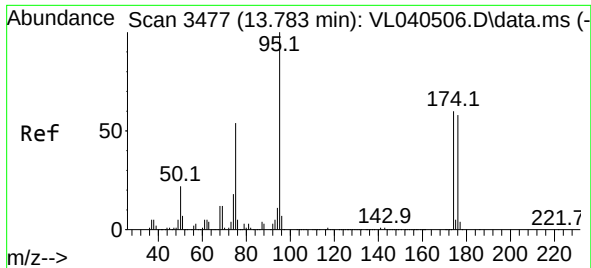
Tgt Ion: 91 Resp: 11541
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL040615.D
Acq: 9 Aug 2023 21:21

Tgt Ion: 117 Resp: 1939392
Ion Ratio Lower Upper
117 100
82 68.7 50.2 75.4
119 32.1 26.9 40.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.520 ppbv
 RT: 13.786 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL040615.D
 Acq: 9 Aug 2023 21:21

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion: 95 Resp: 1614689
 Ion Ratio Lower Upper
 95 100
 174 58.9 50.6 75.8
 175 4.4 3.7 5.5

