

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL04059P2.D
 Acq On : 7 Aug 2023 11:14
 Operator : SY/MD
 Sample : 05904-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 08 01:41:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	1107659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2966214	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2435923	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2138490	11.092	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.900%

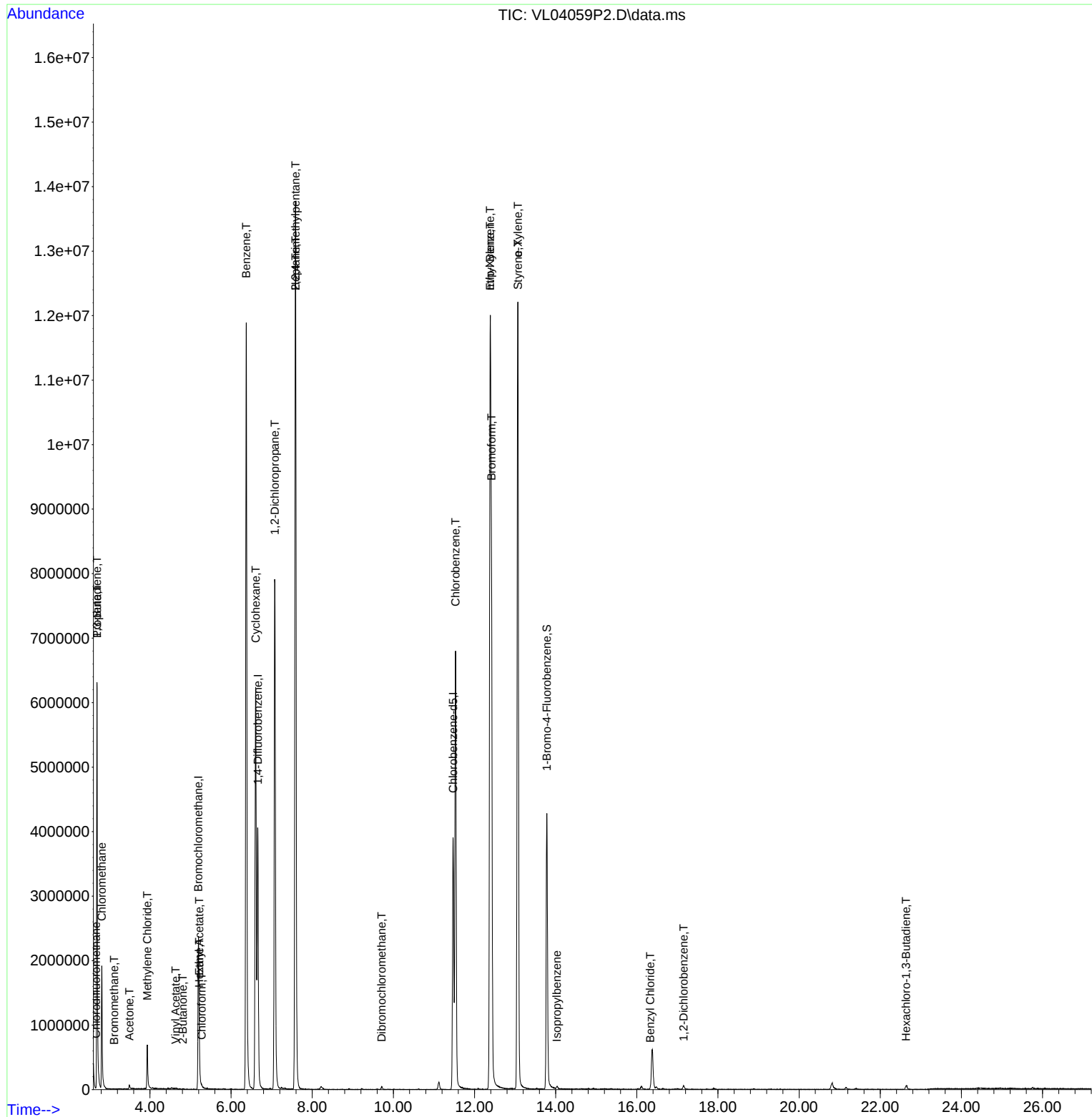
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.674	51	9562	0.054	ppbv	94
4) Chloromethane	2.813	50	1643862	23.635	ppbv	96
6) Bromomethane	3.115	94	1181	0.038	ppbv #	20
9) Propene	2.694	41	2569031	42.742	ppbv	97
10) Heptane	7.587	43	6563767	49.455	ppbv	98
15) Acetone	3.494	43	62436	0.490	ppbv #	81
16) 1,3-Butadiene	2.694	39	2167417	33.695	ppbv #	8
20) Methylene Chloride	3.935	84	232132	4.280	ppbv	98
23) Vinyl Acetate	4.636	43	5742	0.047	ppbv #	83
25) Ethyl Acetate	5.214	43	94160	0.388	ppbv #	79
26) Hexane	5.218	57	132325	1.173	ppbv #	40
29) Chloroform	5.275	83	9436	0.050	ppbv	97
30) Cyclohexane	6.607	84	2362023	25.173	ppbv	96
34) 2-Butanone	4.809	43	6069	0.041	ppbv #	51
36) Benzene	6.375	78	10070764	42.195	ppbv #	89
39) 1,2-Dichloropropane	7.076	63	2946468	32.070	ppbv	96
44) 2,2,4-Trimethylpentane	7.587	57	3548322	9.240	ppbv #	1
48) Dibromochloromethane	9.713	129	17959	0.115	ppbv	59
49) Bromoform	12.417	173	4435496	35.697	ppbv	99
57) Chlorobenzene	11.532	112	4155040	21.872	ppbv	94
58) Ethyl Benzene	12.384	91	9250849	30.262	ppbv #	68
59) m/p-Xylene	12.384	91	9250849	33.906	ppbv	97
60) o-Xylene	13.069	91	9843586	37.872	ppbv	96
61) Styrene	13.073	104	220694	1.841	ppbv #	1
62) Isopropylbenzene	14.031	105	17663	0.045	ppbv #	49
66) Benzyl Chloride	16.330	91	901	0.037	ppbv #	63
77) 1,2-Dichlorobenzene	17.153	146	19499	0.107	ppbv #	57
78) Hexachloro-1,3-Butadiene	22.638	225	8868	0.052	ppbv #	38

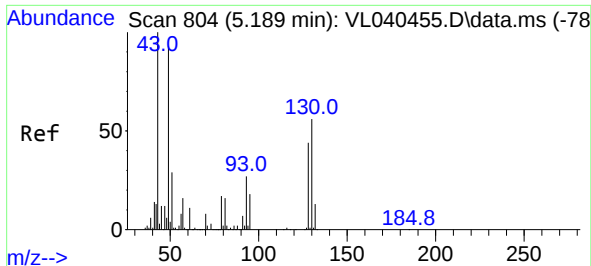
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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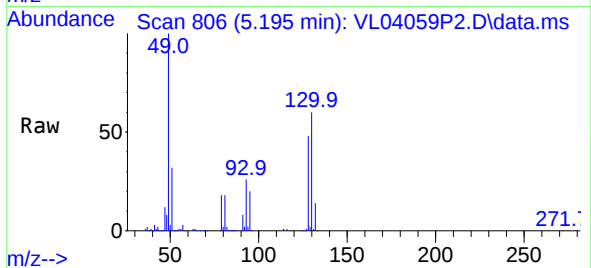
Quant Time: Aug 08 01:41:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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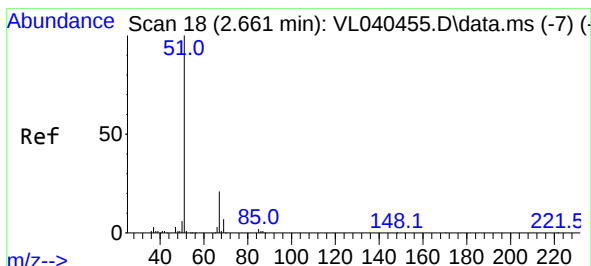
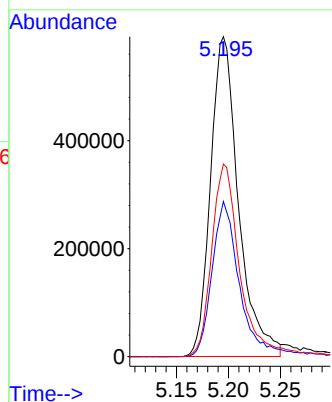
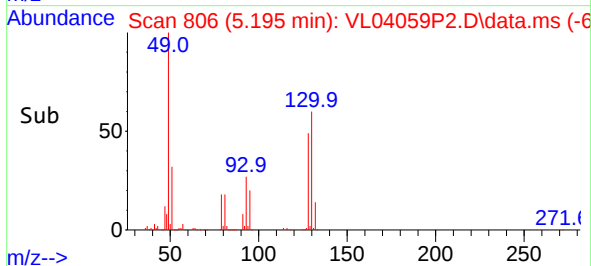


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Instrument :
MSVOA_L
ClientSampleId :

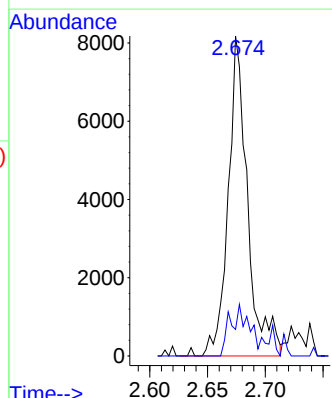
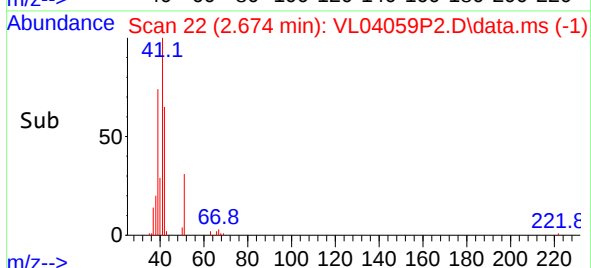
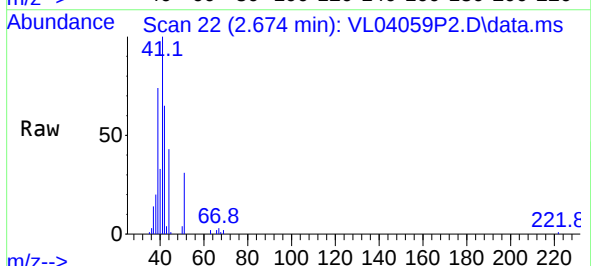


Tgt Ion: 49 Resp: 1107659
Ion Ratio Lower Upper
49 100
128 49.0 25.1 75.4
130 62.7 31.6 94.7

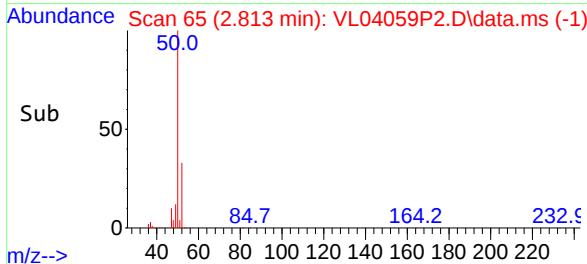
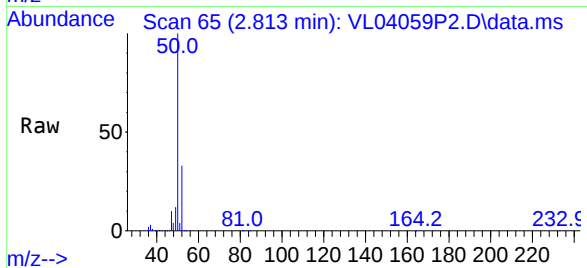
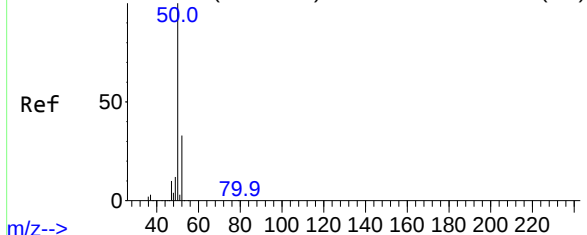


#3
Chlorodifluoromethane
Concen: 0.054 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.010 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 51 Resp: 9562
Ion Ratio Lower Upper
51 100
67 21.0 14.6 21.8



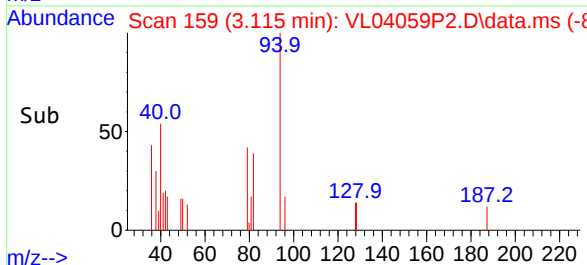
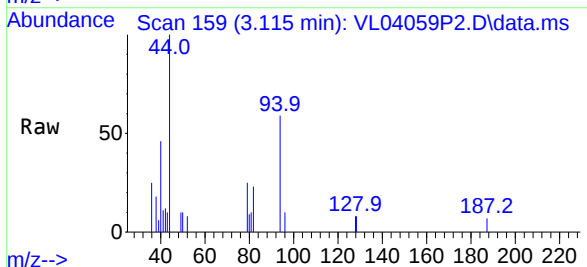
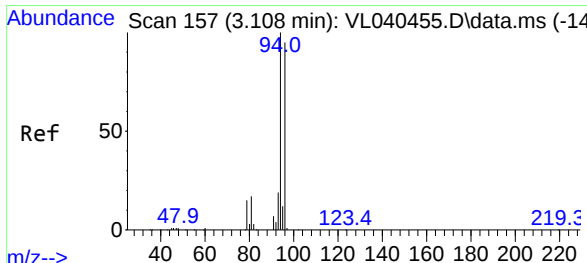
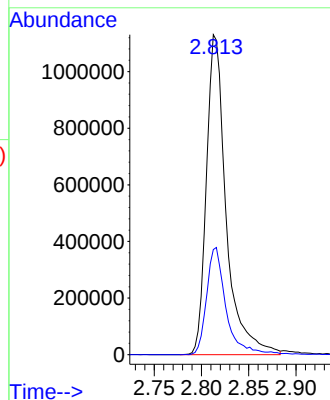
Abundance Scan 61 (2.800 min): VL040455.D\data.ms (-52)



#4
Chloromethane
Concen: 23.635 ppbv
RT: 2.813 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

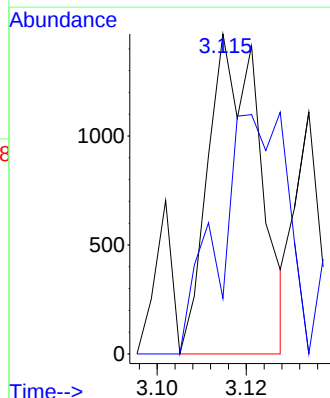
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 50 Resp: 1643862
Ion Ratio Lower Upper
50 100
52 32.9 24.4 36.6

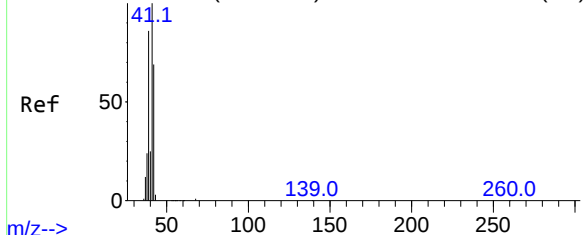


#6
Bromomethane
Concen: 0.038 ppbv
RT: 3.115 min Scan# 159
Delta R.T. -0.013 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 94 Resp: 1181
Ion Ratio Lower Upper
94 100
96 17.4 75.7 113.5#

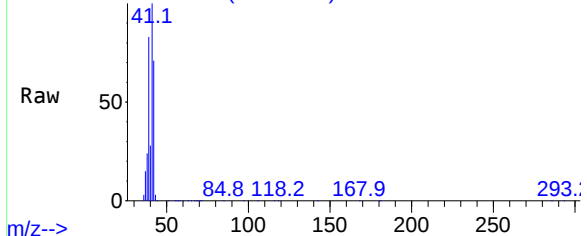


Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



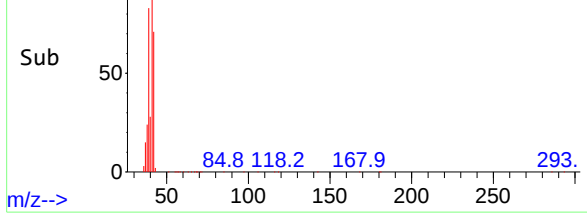
m/z-->

Abundance Scan 28 (2.694 min): VL04059P2.D\data.ms



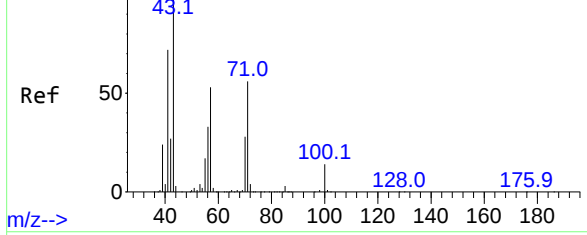
m/z-->

Abundance Scan 28 (2.694 min): VL04059P2.D\data.ms (-1)



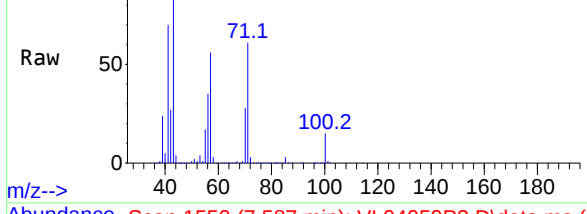
m/z-->

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



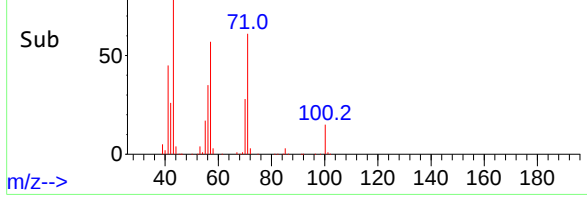
m/z-->

Abundance Scan 1550 (7.587 min): VL04059P2.D\data.ms



m/z-->

Abundance Scan 1550 (7.587 min): VL04059P2.D\data.ms (-1)



m/z-->

#9

Propene

Concen: 42.742 ppbv

RT: 2.694 min Scan# 21

Delta R.T. -0.010 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

Instrument :

MSVOA_L

ClientSampleId :

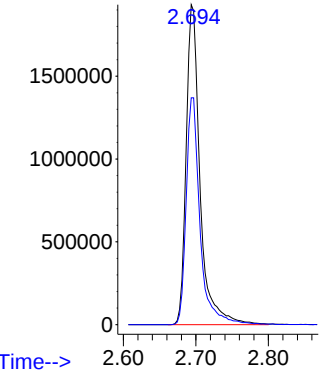
Tgt Ion: 41 Resp: 2569031

Ion Ratio Lower Upper

41 100

42 71.1 55.0 82.6

Abundance



Time-->

#10

Heptane

Concen: 49.455 ppbv

RT: 7.587 min Scan# 1550

Delta R.T. -0.003 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

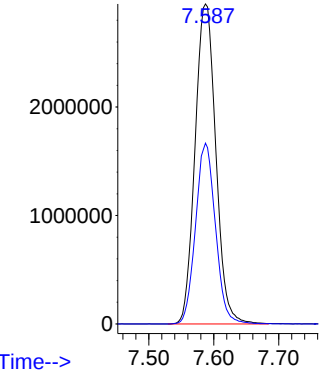
Tgt Ion: 43 Resp: 6563767

Ion Ratio Lower Upper

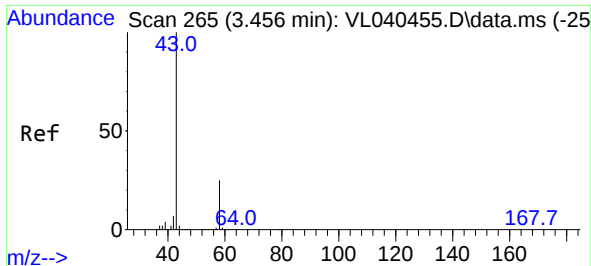
43 100

57 54.2 42.5 63.7

Abundance



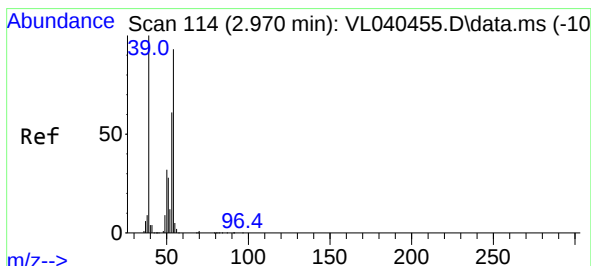
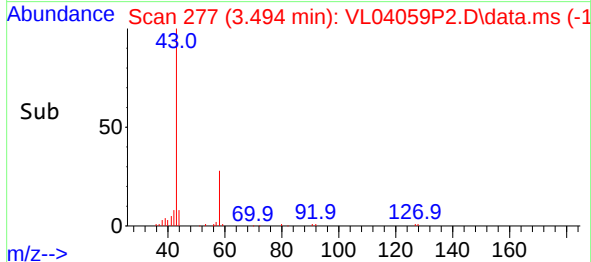
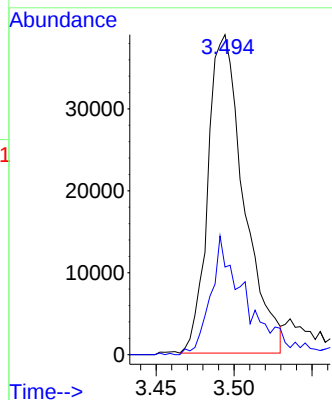
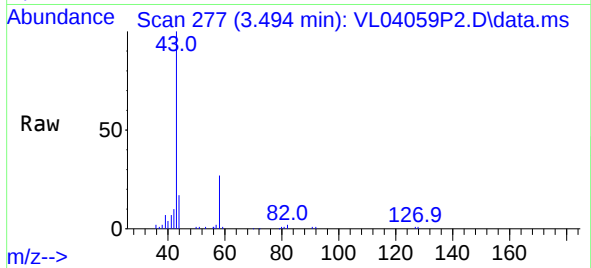
Time-->



#15
Acetone
Concen: 0.490 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

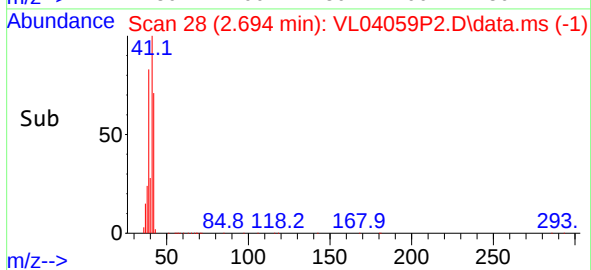
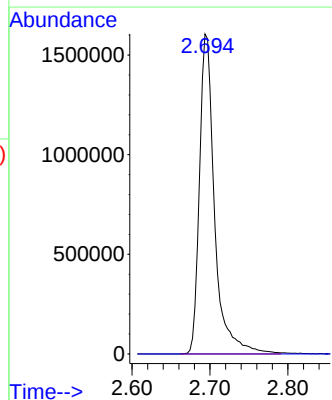
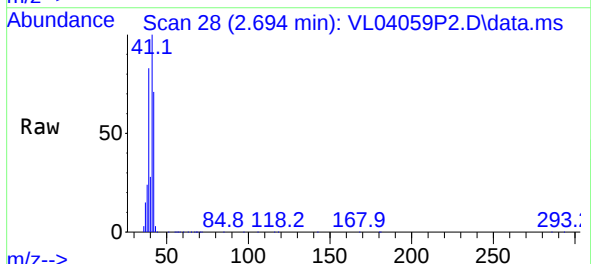
Instrument :
MSVOA_L
ClientSampleId :

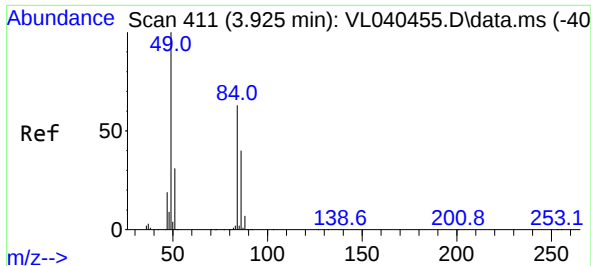
Tgt Ion: 43 Resp: 62436
Ion Ratio Lower Upper
43 100
58 38.4 22.9 34.3#



#16
1,3-Butadiene
Concen: 33.695 ppbv
RT: 2.694 min Scan# 28
Delta R.T. -0.299 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

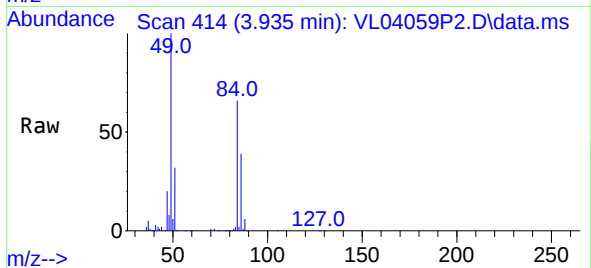
Tgt Ion: 39 Resp: 2167417
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#





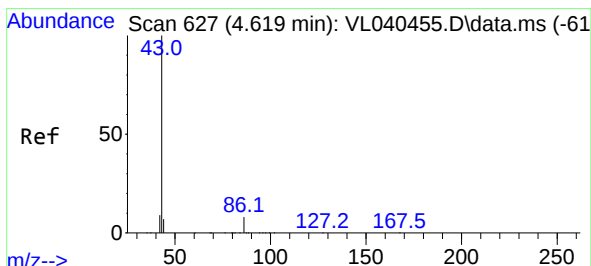
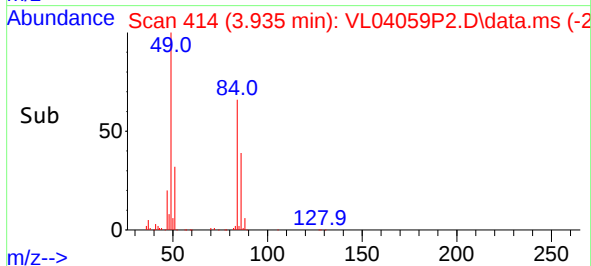
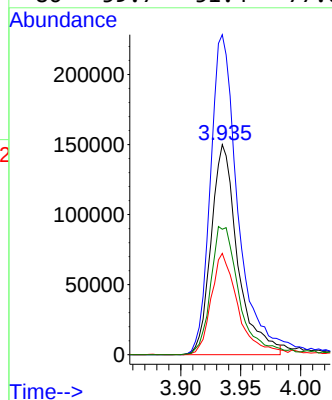
#20
Methylene Chloride
Concen: 4.280 ppbv
RT: 3.935 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 232132

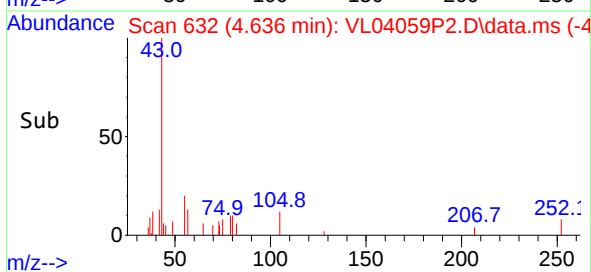
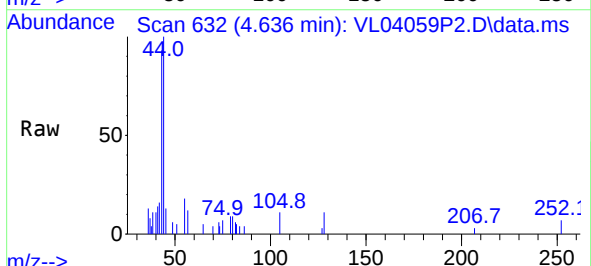
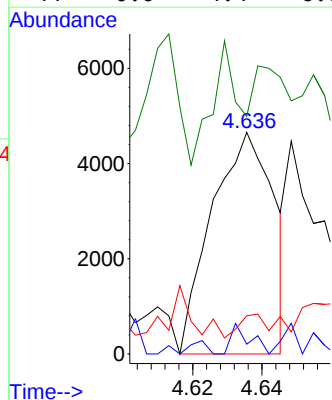
Ion	Ratio	Lower	Upper
84	100		
49	152.3	123.4	185.2
51	48.1	38.3	57.5
86	59.7	51.4	77.0

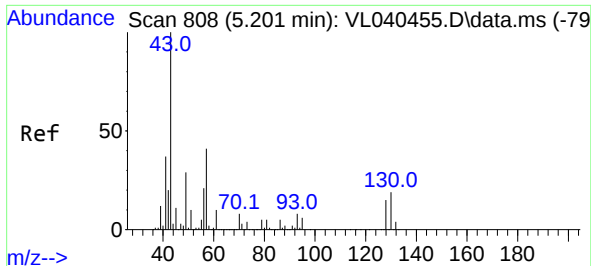


#23
Vinyl Acetate
Concen: 0.047 ppbv
RT: 4.636 min Scan# 632
Delta R.T. -0.000 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 43 Resp: 5742

Ion	Ratio	Lower	Upper
43	100		
86	4.4	5.6	8.4#
42	0.4	7.4	11.2#
44	0.0	4.4	6.6#



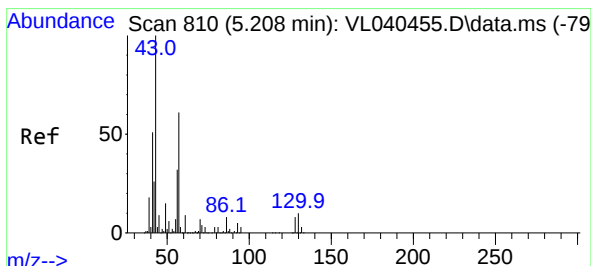
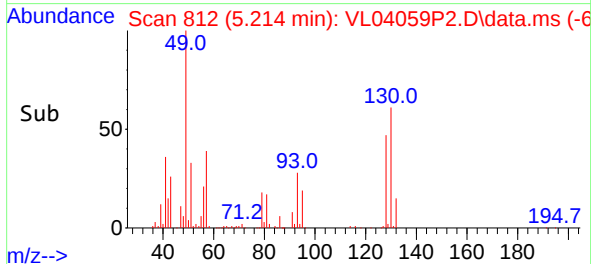
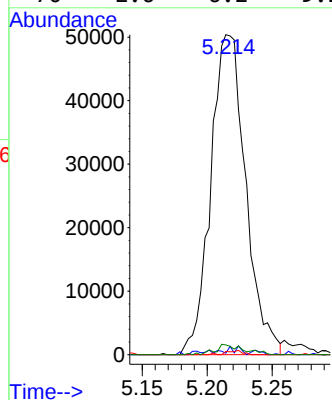
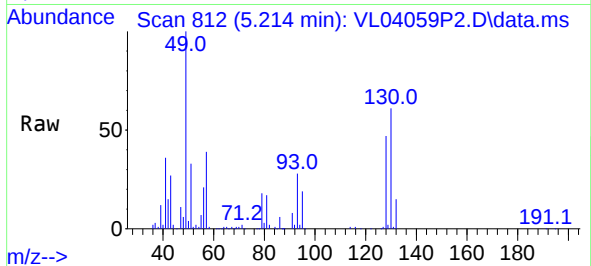


#25
Ethyl Acetate
Concen: 0.388 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 94160

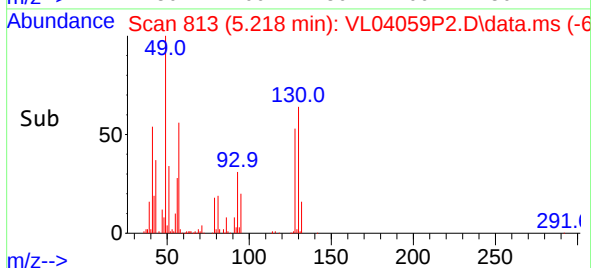
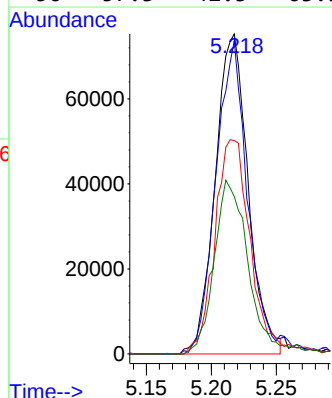
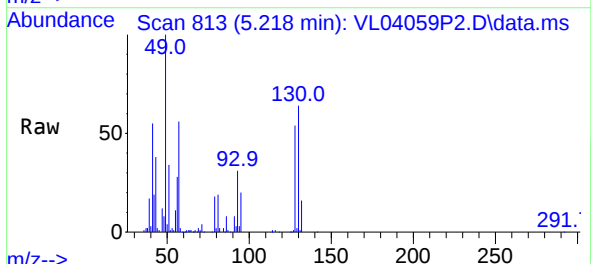
Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.2	12.4#
61	0.6	8.3	12.5#
70	2.6	6.2	9.2#

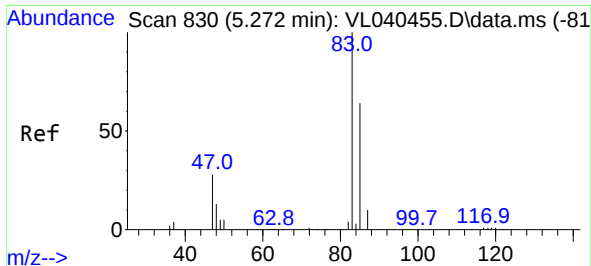


#26
Hexane
Concen: 1.173 ppbv
RT: 5.218 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 57 Resp: 132325

Ion	Ratio	Lower	Upper
57	100		
41	97.9	69.5	104.3
43	73.6	177.1	265.7#
56	57.3	42.3	63.5





#29

Chloroform

Concen: 0.050 ppbv

RT: 5.275 min Scan# 81

Delta R.T. -0.010 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

Instrument :

MSVOA_L

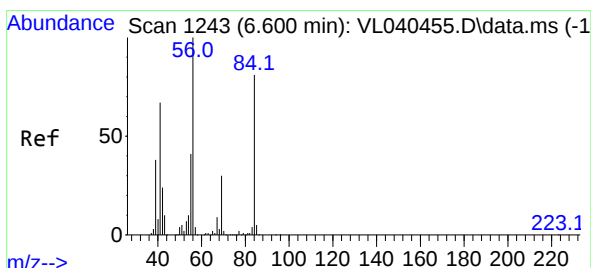
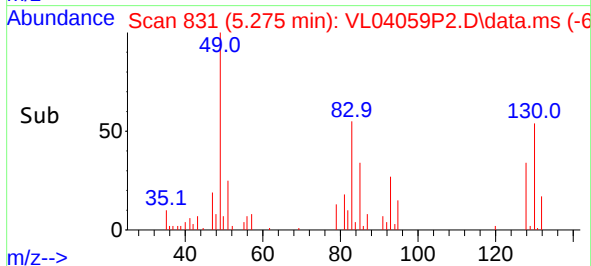
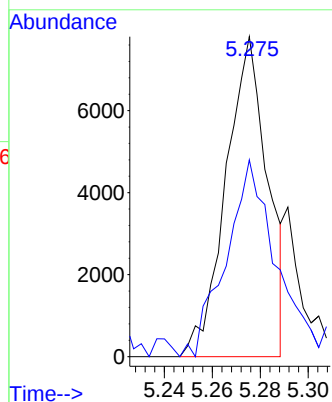
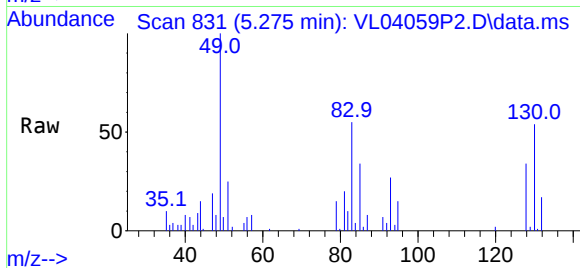
ClientSampleId :

Tgt Ion: 83 Resp: 9436

Ion Ratio Lower Upper

83 100

85 61.5 51.1 76.7



#30

Cyclohexane

Concen: 25.173 ppbv

RT: 6.607 min Scan# 1245

Delta R.T. -0.003 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

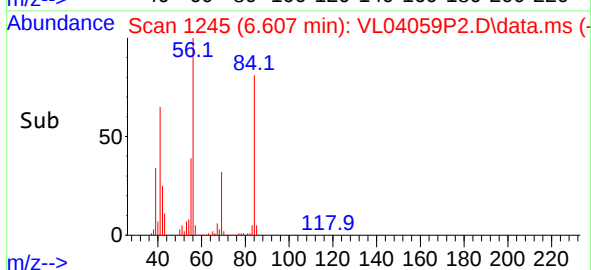
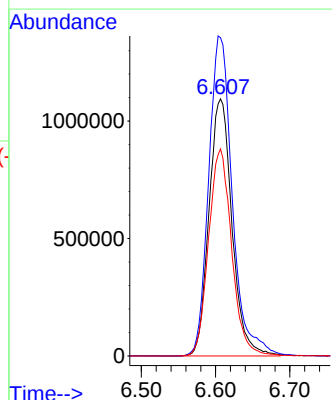
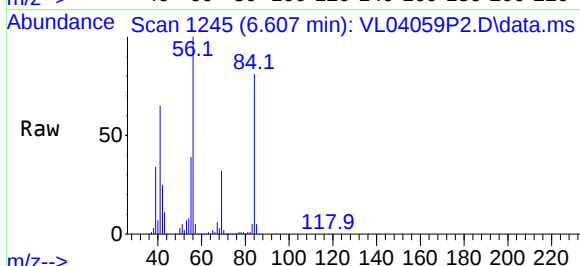
Tgt Ion: 84 Resp: 2362023

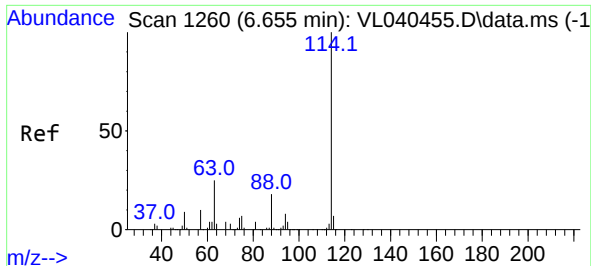
Ion Ratio Lower Upper

84 100

56 128.0 108.7 163.1

41 80.7 64.5 96.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

Instrument :

MSVOA_L

ClientSampleId :

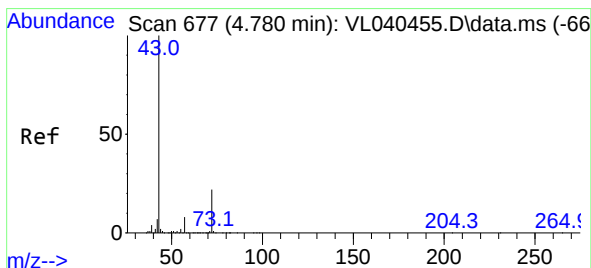
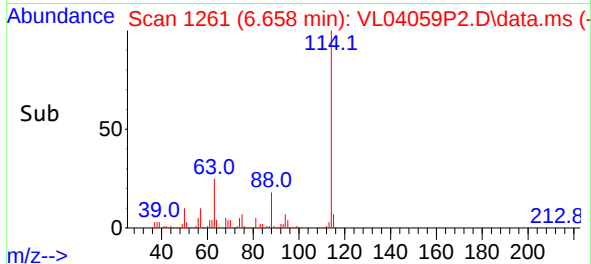
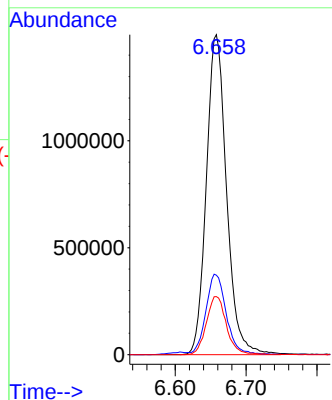
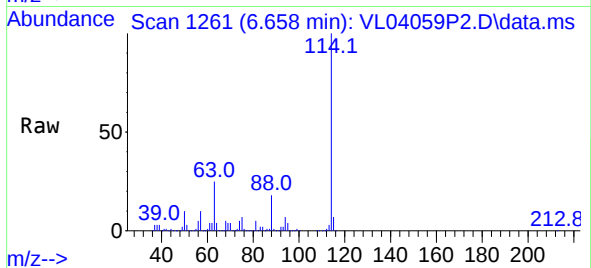
Tgt Ion:114 Resp: 2966214

Ion Ratio Lower Upper

114 100

63 26.2 19.6 29.4

88 18.2 14.2 21.2



#34

2-Butanone

Concen: 0.041 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.016 min

Lab File: VL04059P2.D

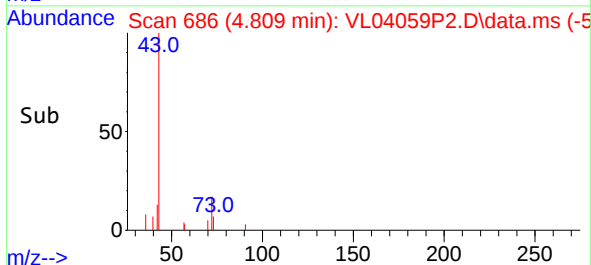
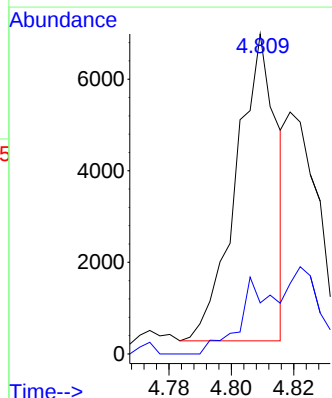
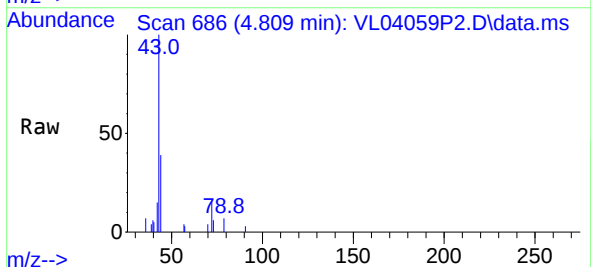
Acq: 7 Aug 2023 11:14

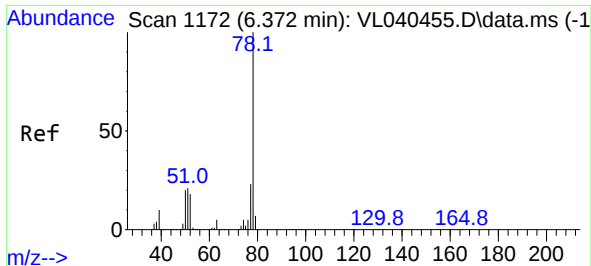
Tgt Ion: 43 Resp: 6069

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#

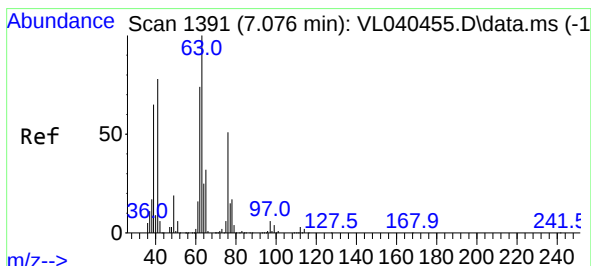
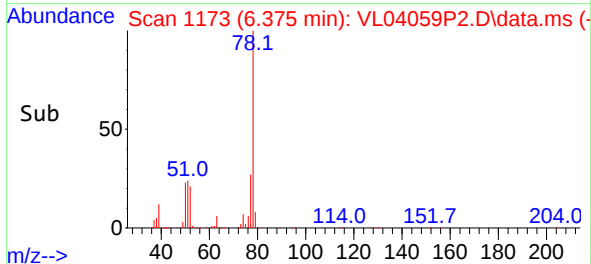
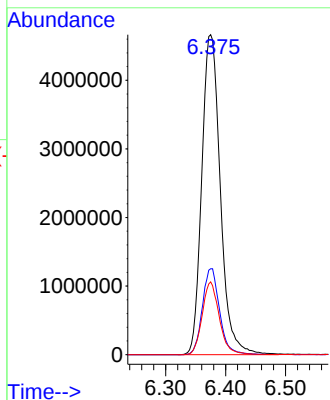
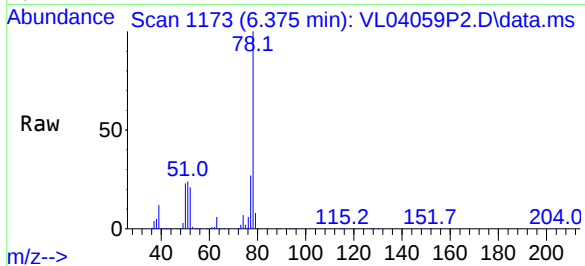




#36
Benzene
Concen: 42.195 ppbv
RT: 6.375 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

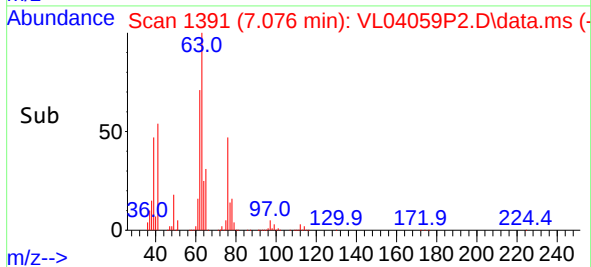
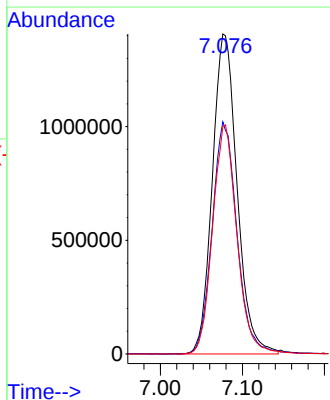
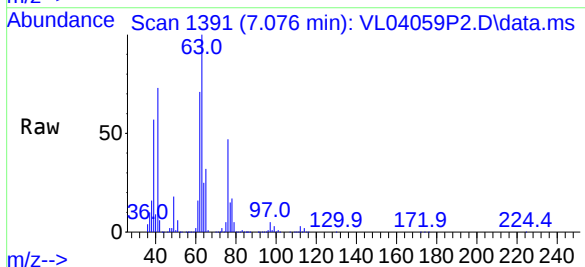
Instrument :
MSVOA_L
ClientSampleId :

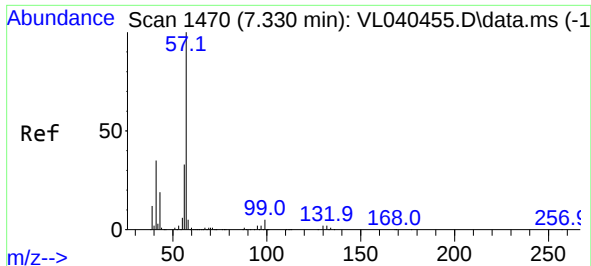
Tgt Ion: 78 Resp:10070764
Ion Ratio Lower Upper
78 100
77 26.8 17.4 26.0#
50 22.7 14.4 21.6#



#39
1,2-Dichloropropane
Concen: 32.070 ppbv
RT: 7.076 min Scan# 1391
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 63 Resp: 2946468
Ion Ratio Lower Upper
63 100
41 72.5 54.3 81.5
62 71.0 55.6 83.4

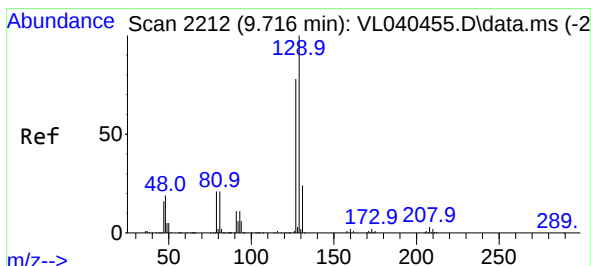
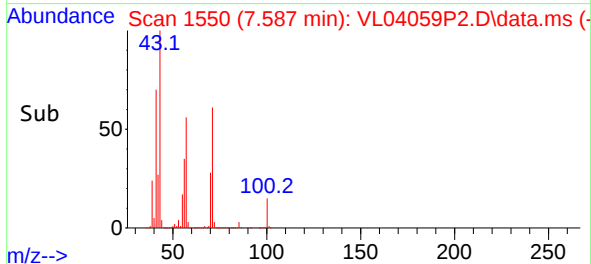
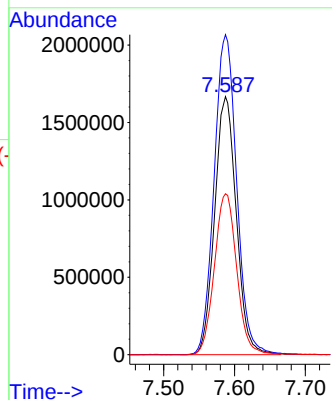
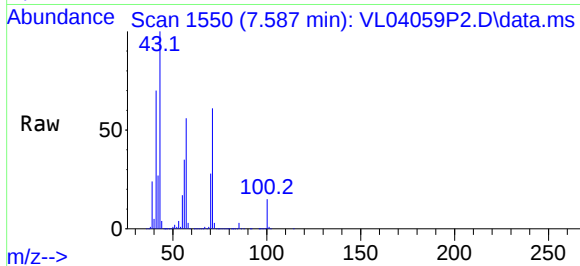




#44
2,2,4-Trimethylpentane
Concen: 9.240 ppbv
RT: 7.587 min Scan# 11
Delta R.T. 0.251 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

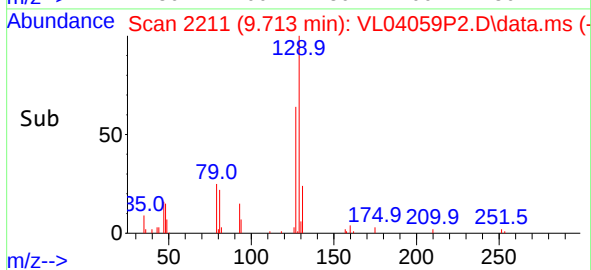
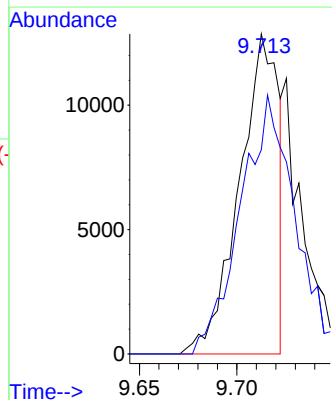
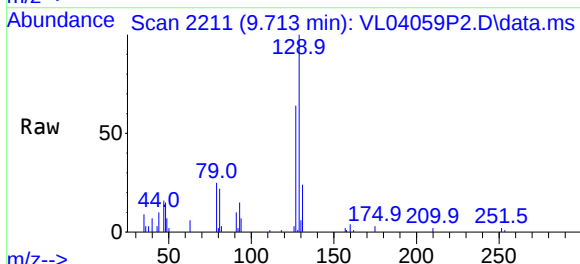
Instrument :
MSVOA_L
ClientSampleId :

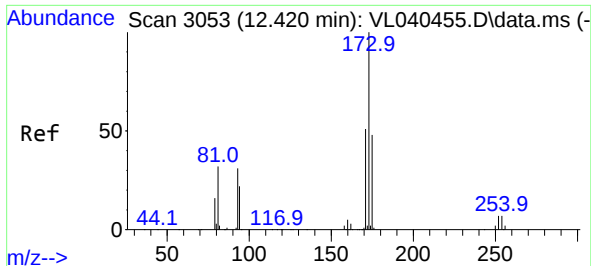
Tgt Ion: 57 Resp: 3548322
Ion Ratio Lower Upper
57 100
41 129.0 25.5 38.3#
56 64.4 25.1 37.7#



#48
Dibromochloromethane
Concen: 0.115 ppbv
RT: 9.713 min Scan# 2211
Delta R.T. -0.010 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

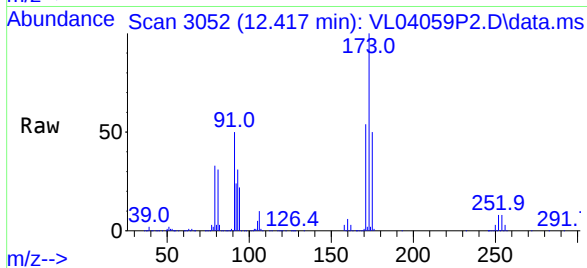
Tgt Ion: 129 Resp: 17959
Ion Ratio Lower Upper
129 100
127 114.2 39.1 117.3



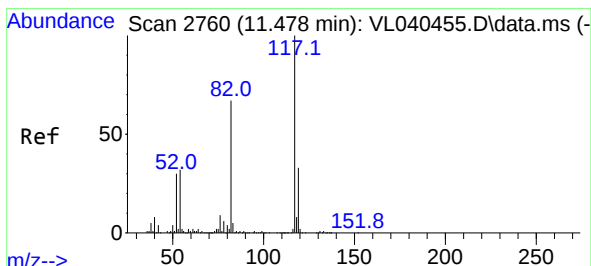
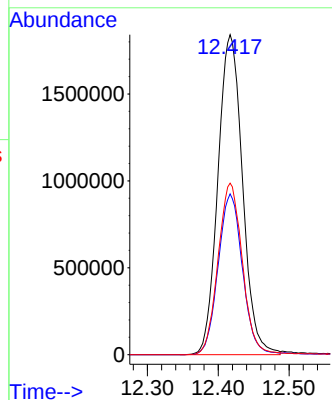
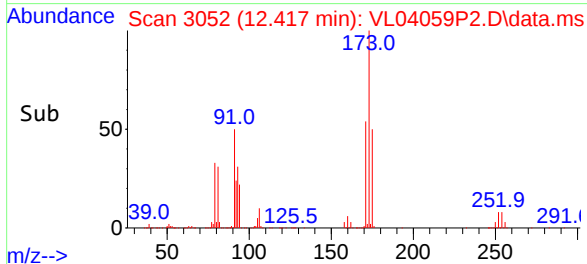


#49
Bromoform
Concen: 35.697 ppbv
RT: 12.417 min Scan# 3053
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Instrument :
MSVOA_L
ClientSampleId :

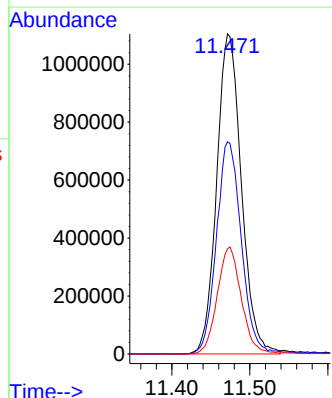
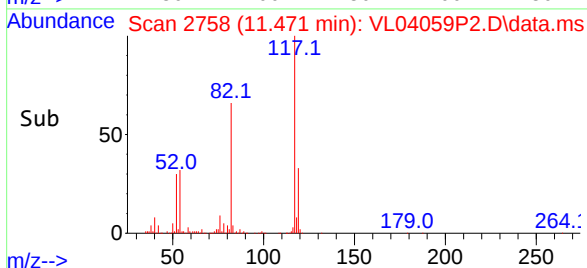
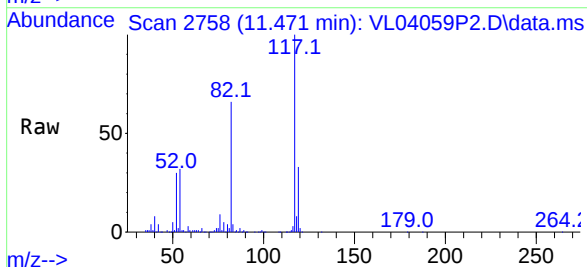


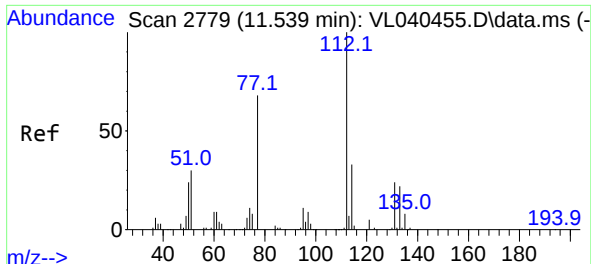
Tgt Ion:173 Resp: 4435496
Ion Ratio Lower Upper
173 100
175 50.2 39.5 59.3
171 53.6 42.2 63.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

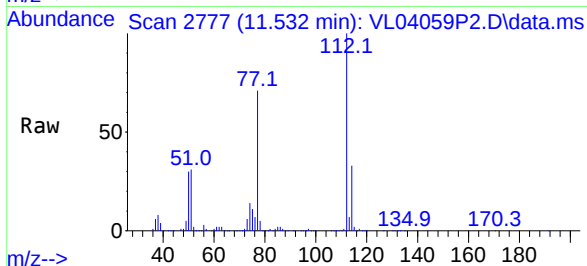
Tgt Ion:117 Resp: 2435923
Ion Ratio Lower Upper
117 100
82 67.4 50.2 75.4
119 32.7 26.9 40.3





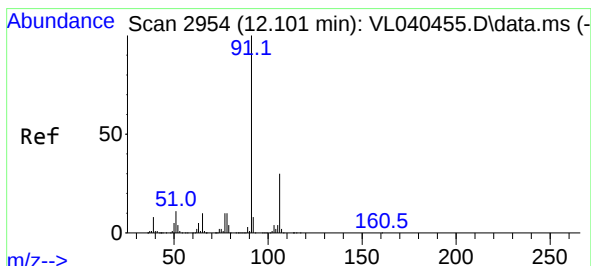
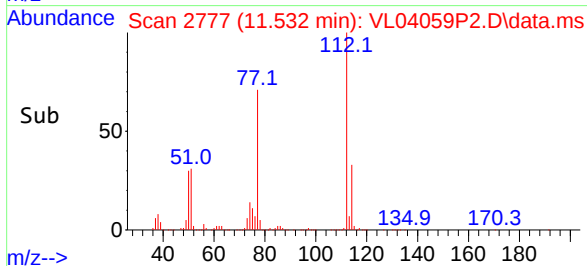
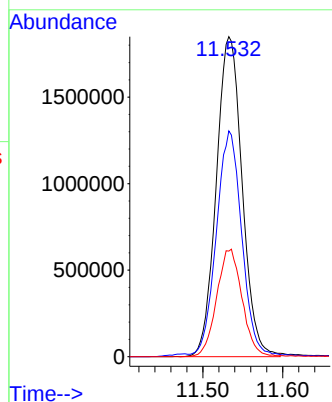
#57
Chlorobenzene
Concen: 21.872 ppbv
RT: 11.532 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:112 Resp: 4155040

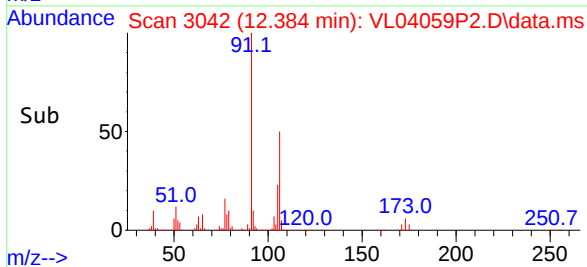
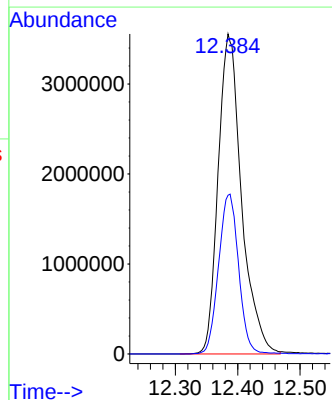
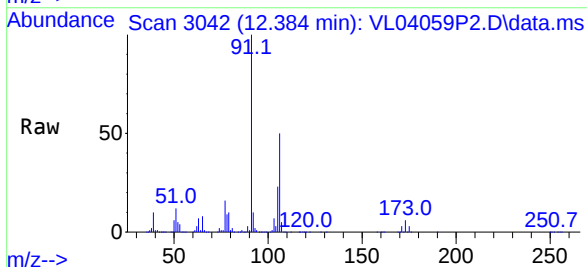
Ion	Ratio	Lower	Upper
112	100		
77	69.9	51.0	76.6
114	33.0	28.3	34.5

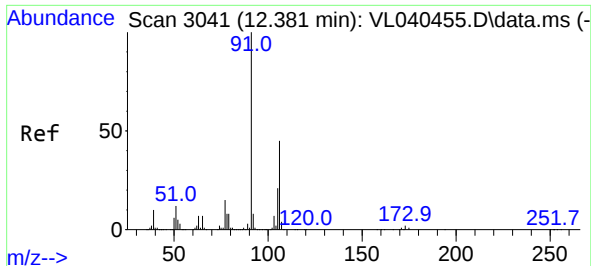


#58
Ethyl Benzene
Concen: 30.262 ppbv
RT: 12.384 min Scan# 3042
Delta R.T. 0.283 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

Tgt Ion: 91 Resp: 9250849

Ion	Ratio	Lower	Upper
91	100		
106	49.6	25.4	38.0





#59

m/p-Xylene

Concen: 33.906 ppbv

RT: 12.384 min Scan# 3041

Delta R.T. -0.000 min

Lab File: VL04059P2.D

Acq: 7 Aug 2023 11:14

Instrument :

MSVOA_L

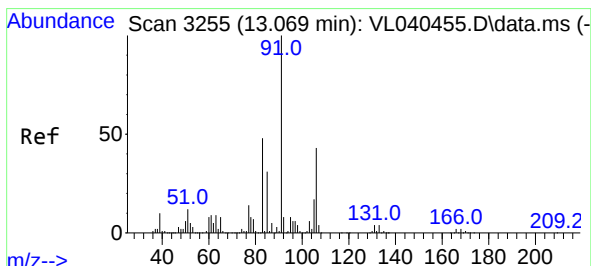
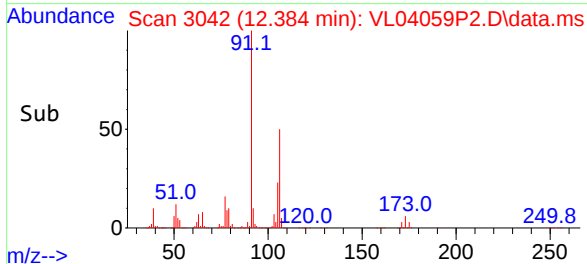
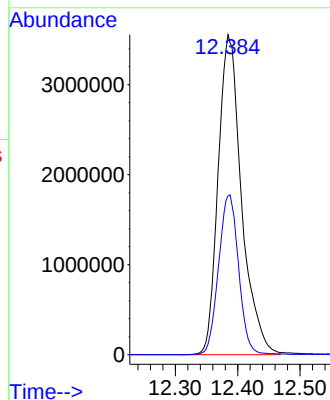
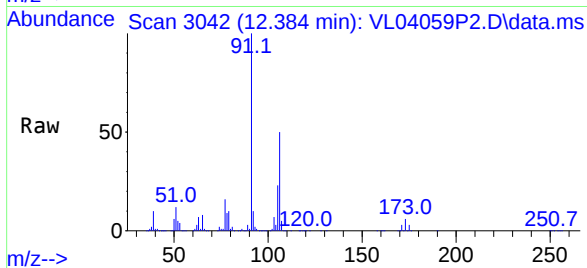
ClientSampleId :

Tgt Ion: 91 Resp: 9250849

Ion Ratio Lower Upper

91 100

106 43.0 35.9 53.9



#60

o-Xylene

Concen: 37.872 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. -0.000 min

Lab File: VL04059P2.D

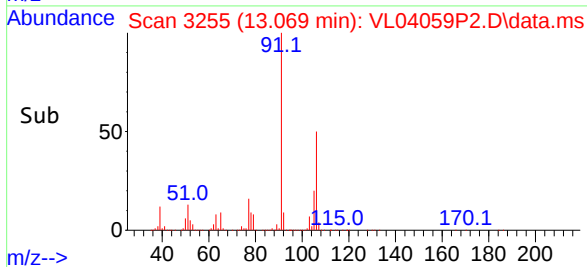
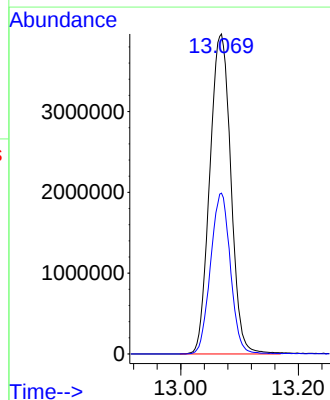
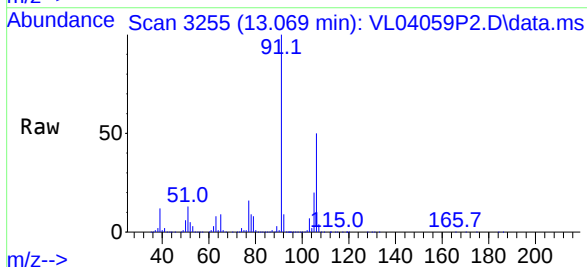
Acq: 7 Aug 2023 11:14

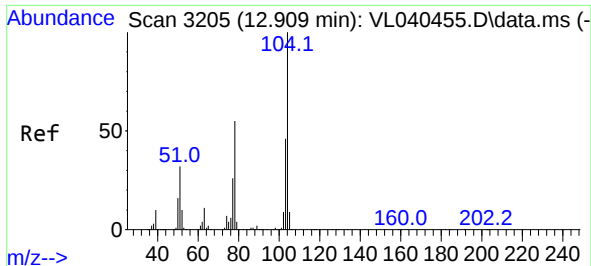
Tgt Ion: 91 Resp: 9843586

Ion Ratio Lower Upper

91 100

106 47.6 22.7 68.0

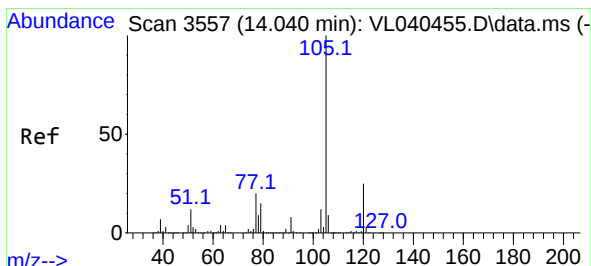
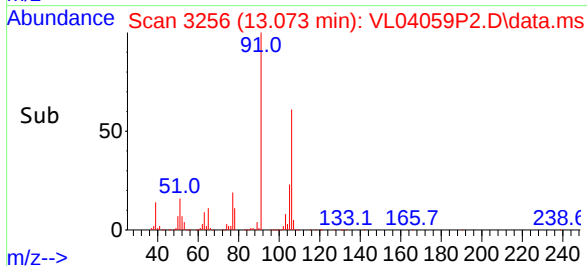
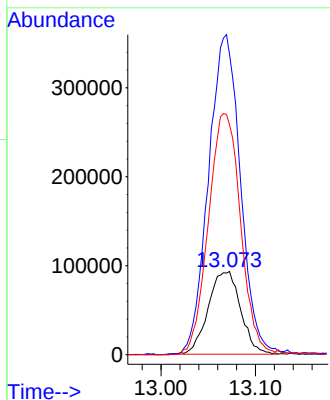
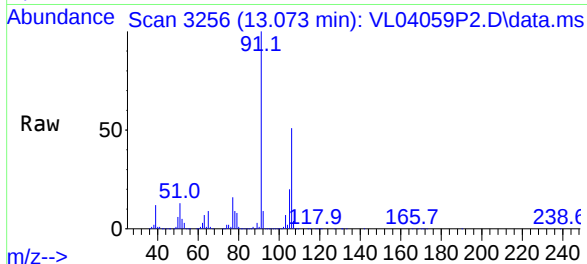




#61
Styrene
Concen: 1.841 ppbv
RT: 13.073 min Scan# 31
Delta R.T. 0.161 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

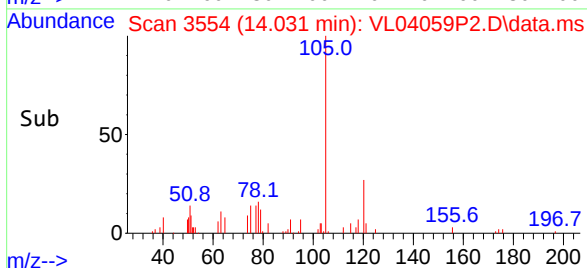
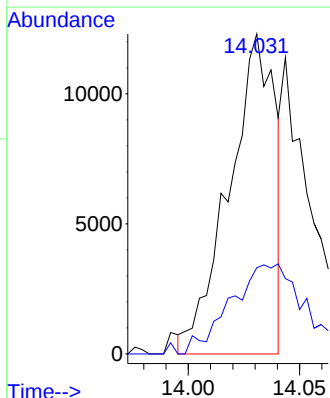
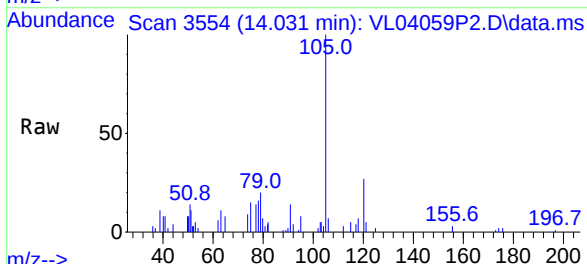
Instrument :
MSVOA_L
ClientSampleId :

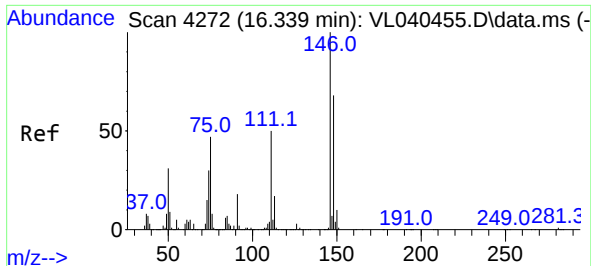
Tgt Ion:104 Resp: 220694
Ion Ratio Lower Upper
104 100
78 387.8 40.1 60.1#
103 292.8 37.0 55.4#



#62
Isopropylbenzene
Concen: 0.045 ppbv
RT: 14.031 min Scan# 3554
Delta R.T. -0.010 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

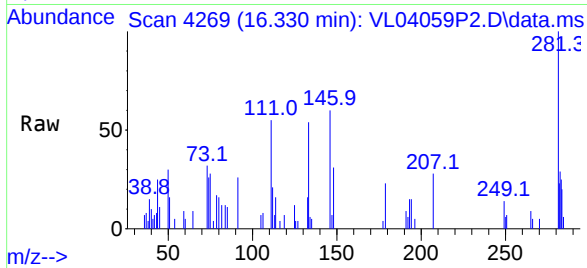
Tgt Ion:105 Resp: 17663
Ion Ratio Lower Upper
105 100
120 0.0 20.8 31.2#



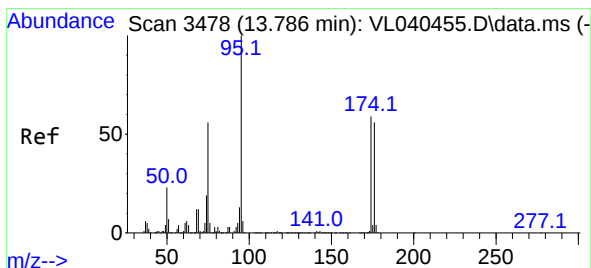
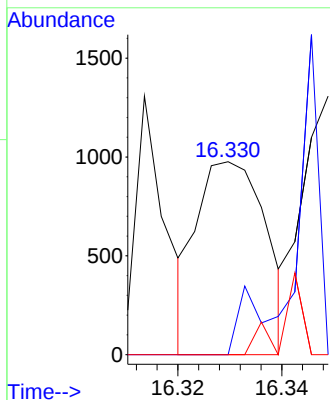
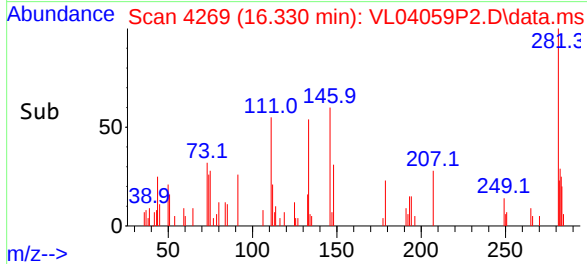


#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 16.330 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

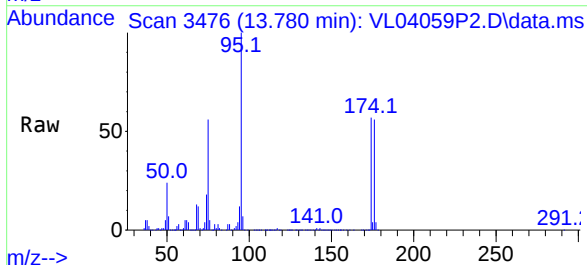
Instrument :
MSVOA_L
ClientSampleId :



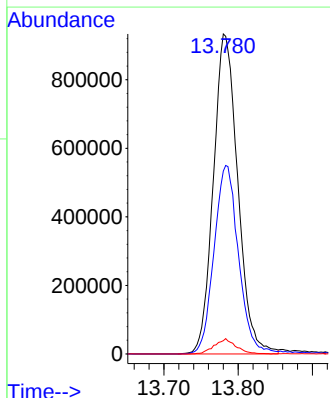
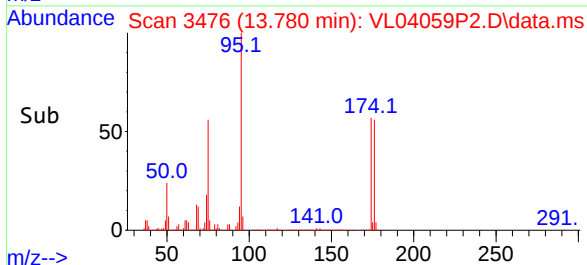
Tgt Ion: 91 Resp: 901
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.2#
128 0.0 4.5 6.7#

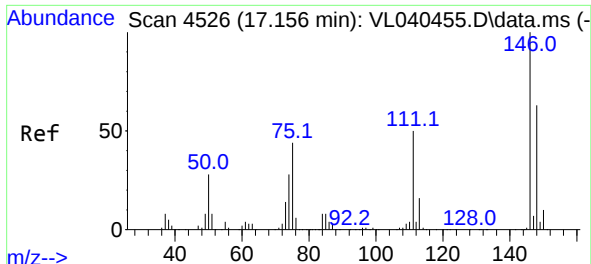


#68
1-Bromo-4-Fluorobenzene
Concen: 11.092 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14



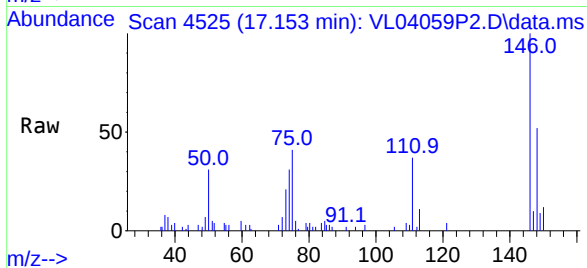
Tgt Ion: 95 Resp: 2138490
Ion Ratio Lower Upper
95 100
174 59.9 50.6 75.8
175 4.2 3.7 5.5



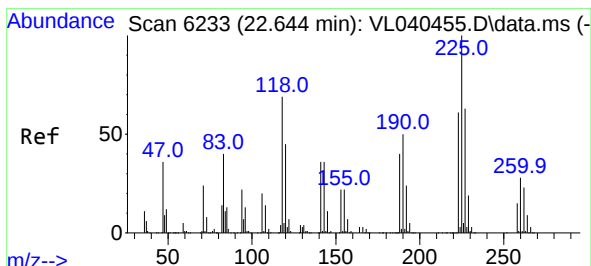
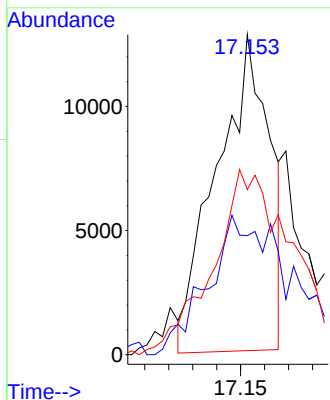
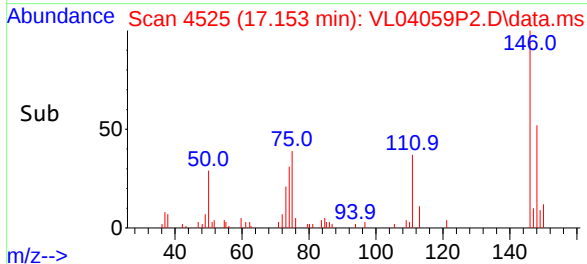


#77
1,2-Dichlorobenzene
Concen: 0.107 ppbv
RT: 17.153 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14

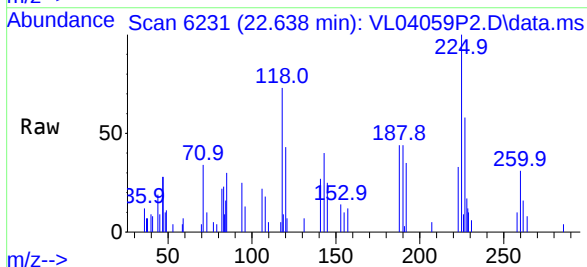
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:146 Resp: 19499
Ion Ratio Lower Upper
146 100
111 75.7 24.3 72.8#
148 99.2 32.1 96.3#



#78
Hexachloro-1,3-Butadiene
Concen: 0.052 ppbv
RT: 22.638 min Scan# 6231
Delta R.T. -0.010 min
Lab File: VL04059P2.D
Acq: 7 Aug 2023 11:14



Tgt Ion:225 Resp: 8868
Ion Ratio Lower Upper
225 100
223 106.5 50.3 75.5#
227 116.1 51.0 76.6#

