

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040553.D
 Acq On : 26 Jul 2023 23:20
 Operator : SY/MD
 Sample : 03730-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 01:53:06 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	5.176	49	1134797	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	3048101	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.455	117	2787008	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2265518	10.271	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%

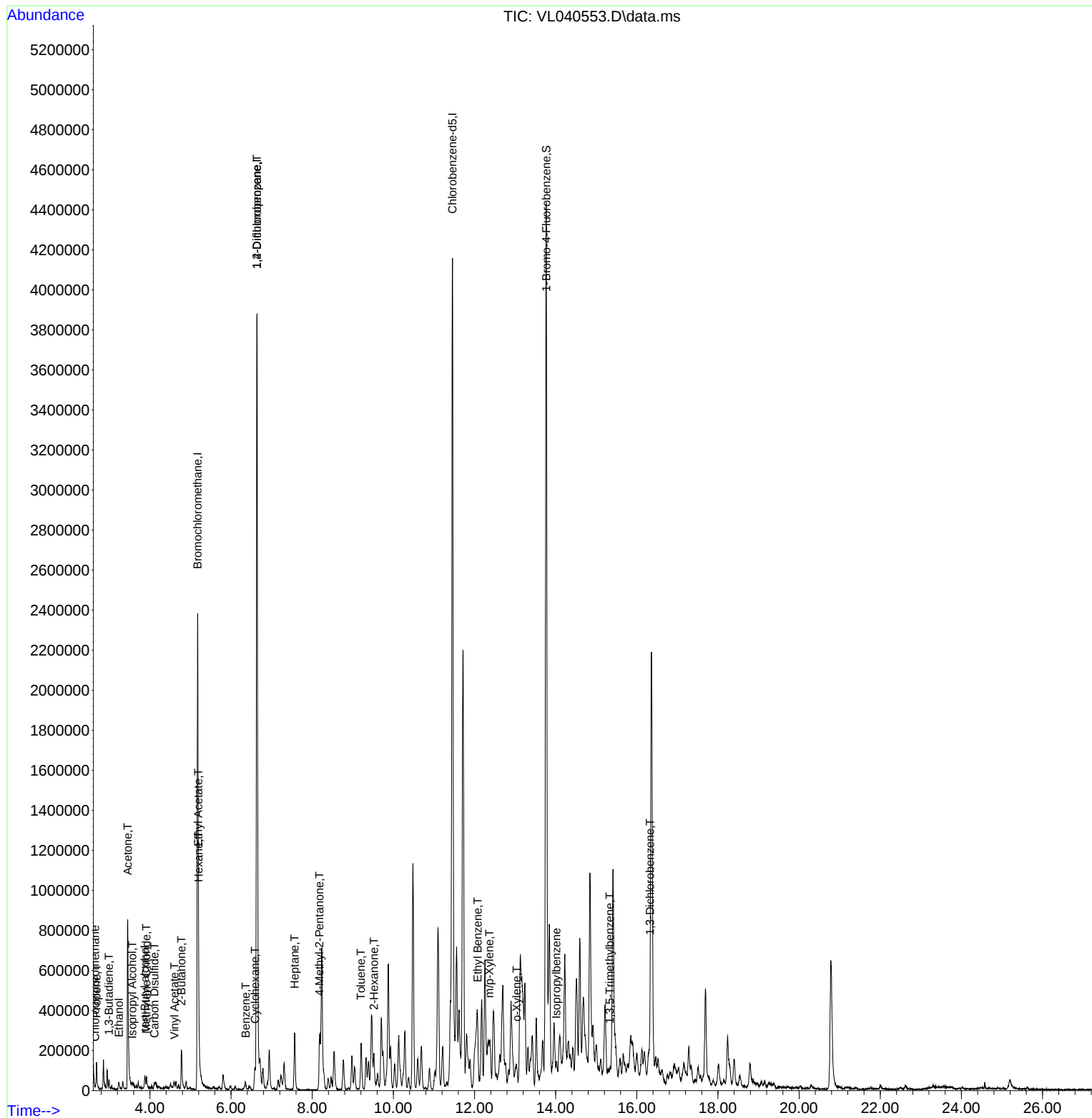
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.652	51	6453	0.036	ppbv	96
9) Propene	2.684	41	33013	0.536	ppbv	85
10) Heptane	7.565	43	110084	0.810	ppbv	99
13) Ethanol	3.234	45	35254	2.631	ppbv	100
15) Acetone	3.452	43	944107	7.228	ppbv	98
16) 1,3-Butadiene	2.992	39	6176	0.094	ppbv #	8
17) tert-Butyl alcohol	3.877	59	51977	0.385	ppbv #	92
19) Isopropyl Alcohol	3.568	45	10632	0.142	ppbv #	96
20) Methylene Chloride	3.915	84	15768	0.284	ppbv #	89
23) Vinyl Acetate	4.607	43	6917	0.056	ppbv #	9
25) Ethyl Acetate	5.195	43	69434	0.279	ppbv #	78
26) Hexane	5.198	57	88750	0.768	ppbv #	40
27) Carbon Disulfide	4.108	76	27776	0.204	ppbv #	73
30) Cyclohexane	6.587	84	21277	0.221	ppbv #	41
34) 2-Butanone	4.774	43	126009	0.837	ppbv #	53
36) Benzene	6.359	78	14924	0.061	ppbv #	83
39) 1,2-Dichloropropane	6.639	63	729413	7.726	ppbv #	26
50) 4-Methyl-2-Pentanone	8.176	43	98010	0.448	ppbv #	37
51) 2-Hexanone	9.520	43	85799	0.554	ppbv #	28
53) Toluene	9.201	91	50092	0.188	ppbv #	1
58) Ethyl Benzene	12.079	91	84481	0.242	ppbv	95
59) m/p-Xylene	12.362	91	16861	0.054	ppbv #	31
60) o-Xylene	13.040	91	25043	0.084	ppbv #	31
62) Isopropylbenzene	14.018	105	26435	0.059	ppbv #	87
73) 1,3,5-Trimethylbenzene	15.336	105	9519	0.031	ppbv #	77
75) 1,3-Dichlorobenzene	16.326	146	11821	0.054	ppbv #	51

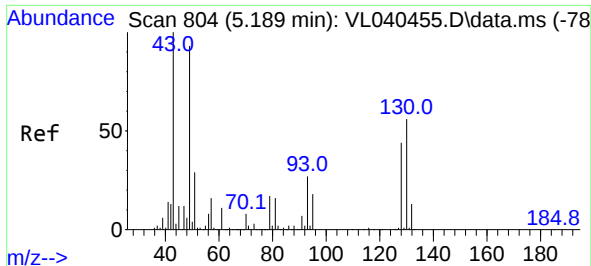
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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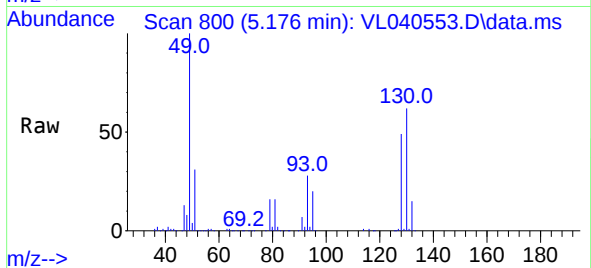
Quant Time: Jul 27 01:53:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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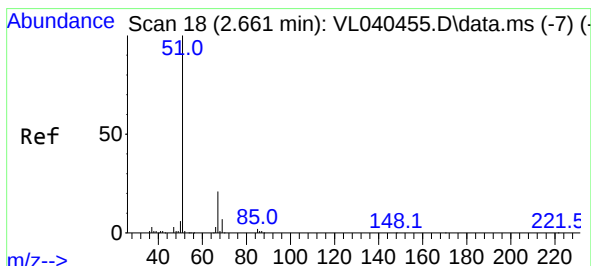
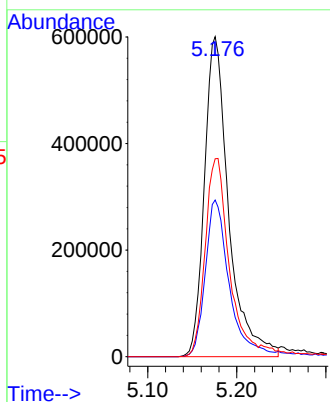
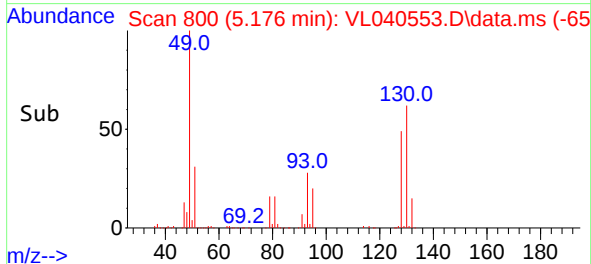


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Instrument :
MSVOA_L
ClientSampleId :

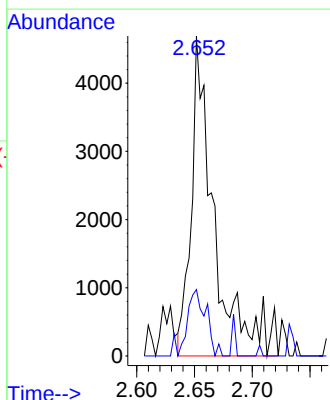
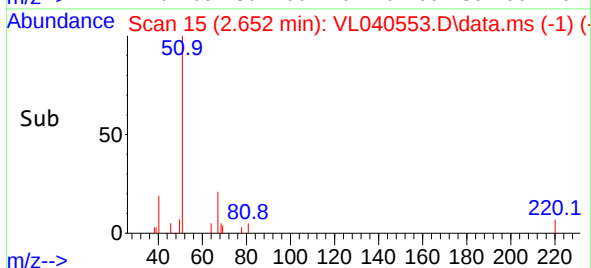
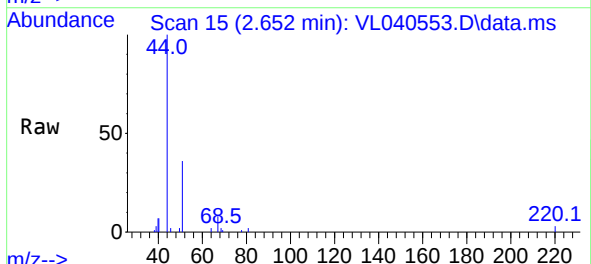


Tgt Ion: 49 Resp: 1134797
Ion Ratio Lower Upper
49 100
128 50.3 25.1 75.4
130 64.8 31.6 94.7

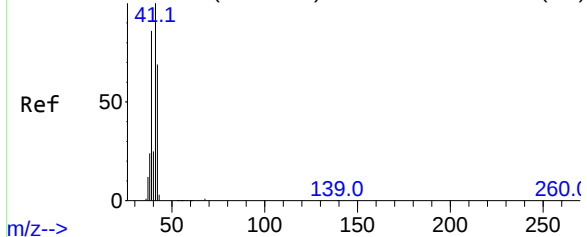


#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 2.652 min Scan# 15
Delta R.T. -0.032 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 51 Resp: 6453
Ion Ratio Lower Upper
51 100
67 16.6 14.6 21.8



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



#9

Propene

Concen: 0.536 ppbv

RT: 2.684 min Scan# 21

Delta R.T. -0.019 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

ClientSampleId :

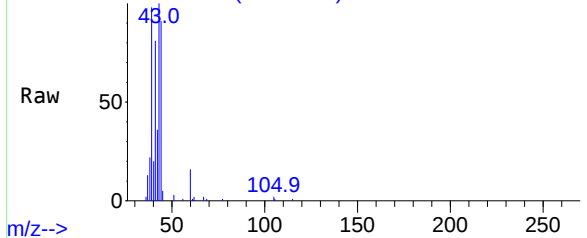
Tgt Ion: 41 Resp: 33013

Ion Ratio Lower Upper

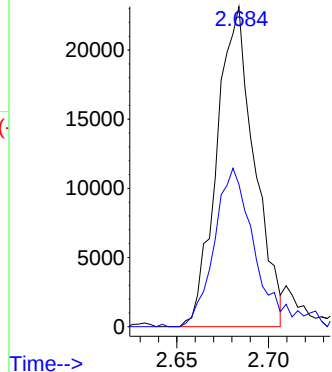
41 100

42 56.3 55.0 82.6

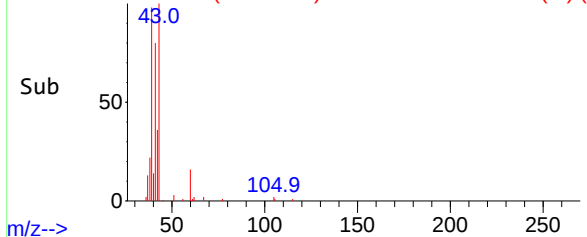
Abundance Scan 25 (2.684 min): VL040553.D\data.ms



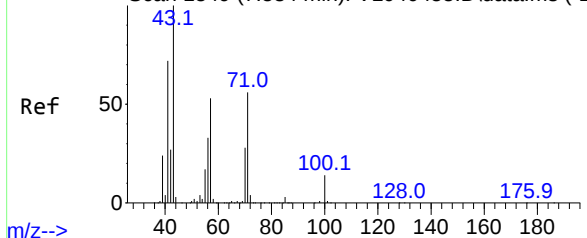
Abundance



Abundance Scan 25 (2.684 min): VL040553.D\data.ms (-1)



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



#10

Heptane

Concen: 0.810 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. -0.026 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

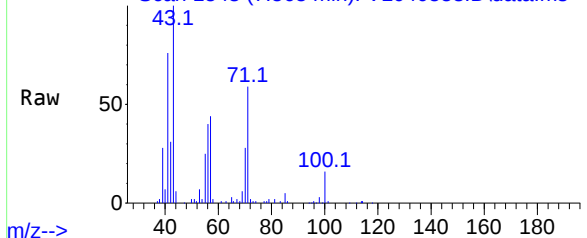
Tgt Ion: 43 Resp: 110084

Ion Ratio Lower Upper

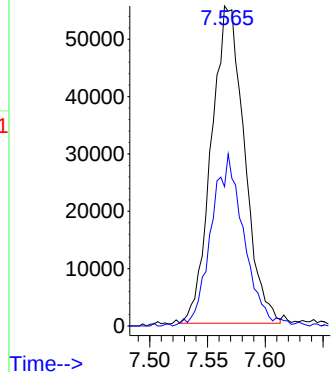
43 100

57 54.2 42.5 63.7

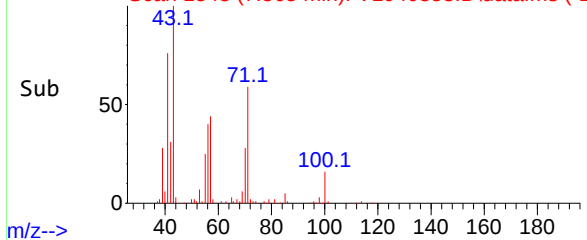
Abundance Scan 1543 (7.565 min): VL040553.D\data.ms

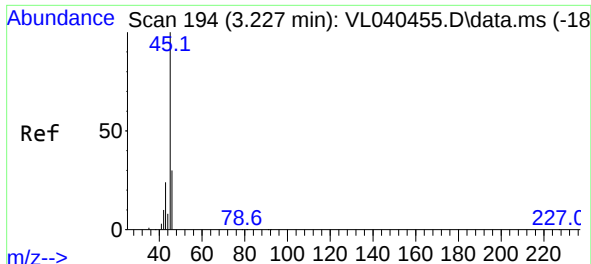


Abundance



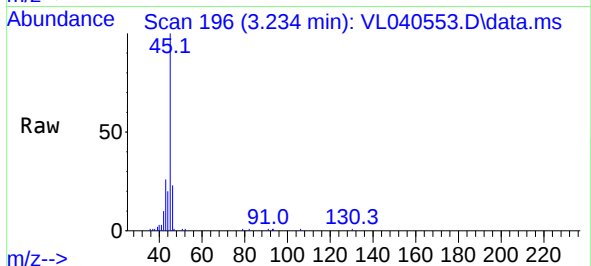
Abundance Scan 1543 (7.565 min): VL040553.D\data.ms (-1)



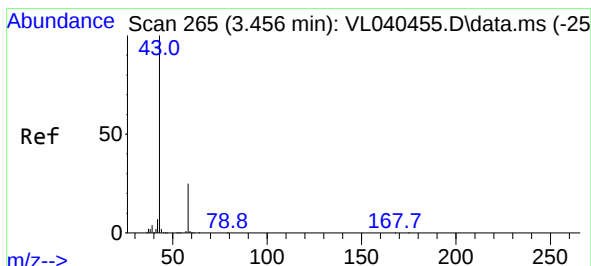
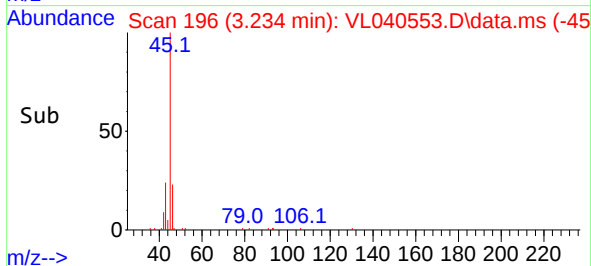
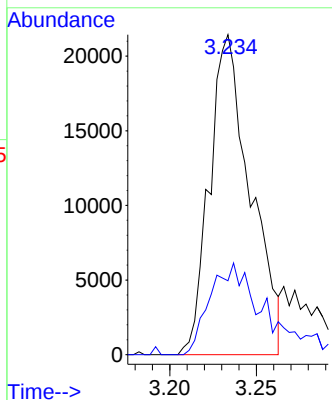


#13
Ethanol
Concen: 2.631 ppbv
RT: 3.234 min Scan# 194
Delta R.T. -0.013 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Instrument :
MSVOA_L
ClientSampleId :

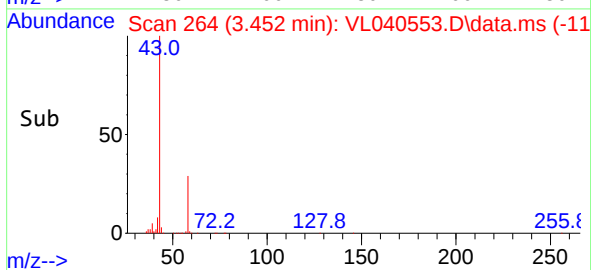
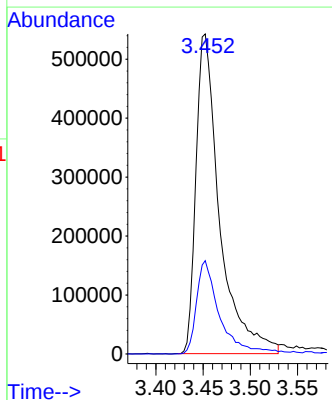
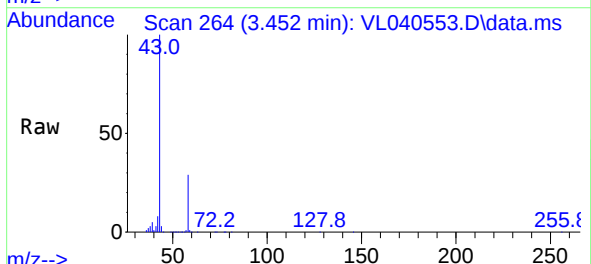


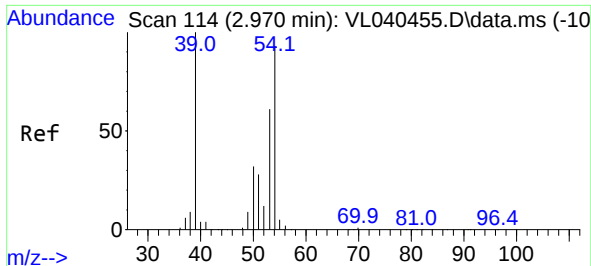
Tgt Ion: 45 Resp: 35254
Ion Ratio Lower Upper
45 100
46 38.5 15.3 61.1



#15
Acetone
Concen: 7.228 ppbv
RT: 3.452 min Scan# 264
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 43 Resp: 944107
Ion Ratio Lower Upper
43 100
58 29.6 22.9 34.3





#16

1,3-Butadiene

Concen: 0.094 ppbv

RT: 2.992 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

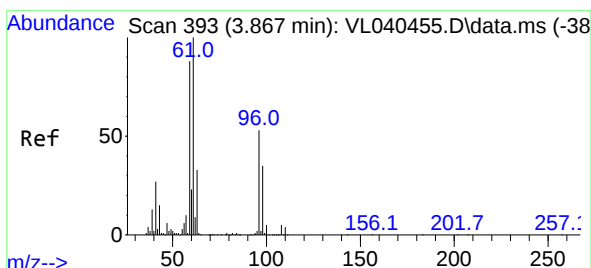
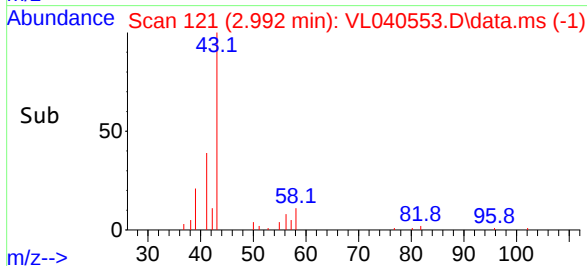
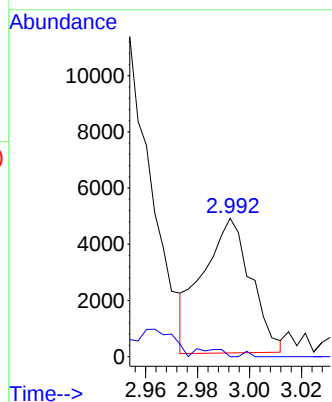
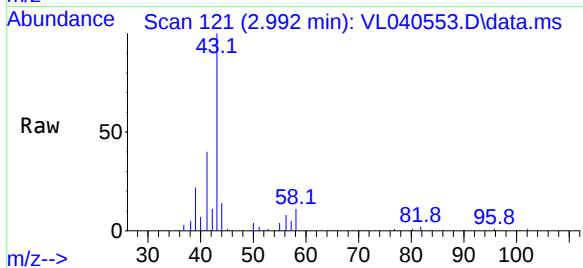
ClientSampleId :

Tgt Ion: 39 Resp: 6176

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 0.385 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.007 min

Lab File: VL040553.D

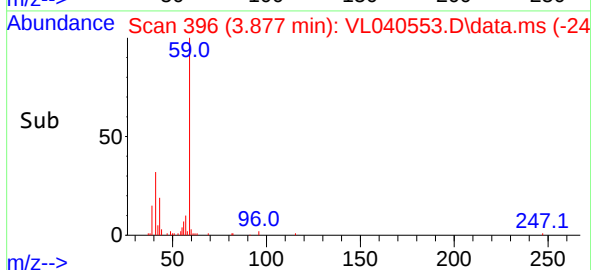
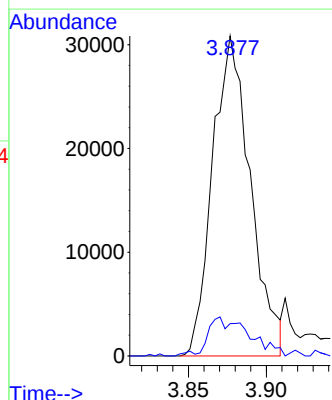
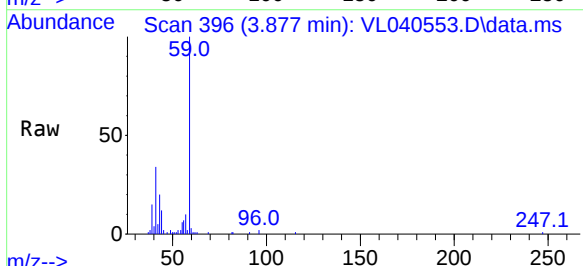
Acq: 26 Jul 2023 23:20

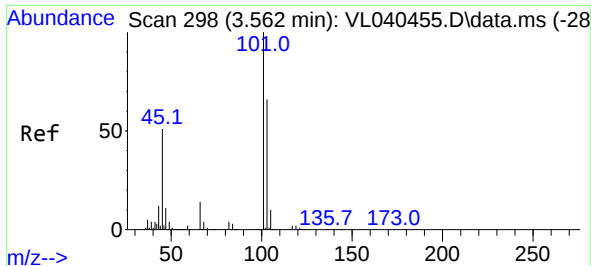
Tgt Ion: 59 Resp: 51977

Ion Ratio Lower Upper

59 100

57 13.8 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.142 ppbv

RT: 3.568 min Scan# 30

Delta R.T. -0.013 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

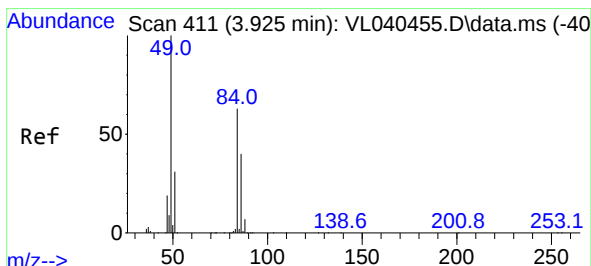
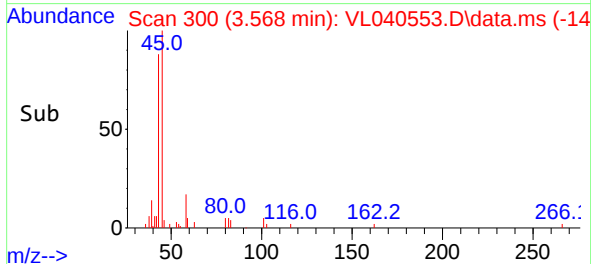
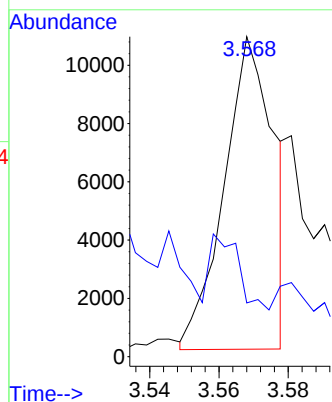
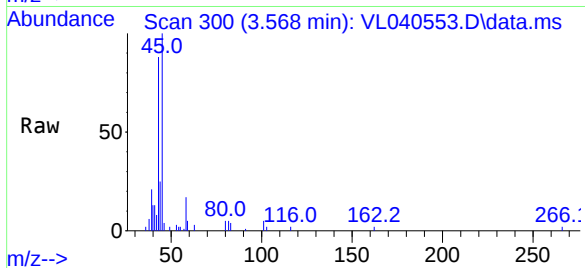
ClientSampleId :

Tgt Ion: 45 Resp: 10632

Ion Ratio Lower Upper

45 100

58 0.0 1.1 1.7#



#20

Methylene Chloride

Concen: 0.284 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.026 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Tgt Ion: 84 Resp: 15768

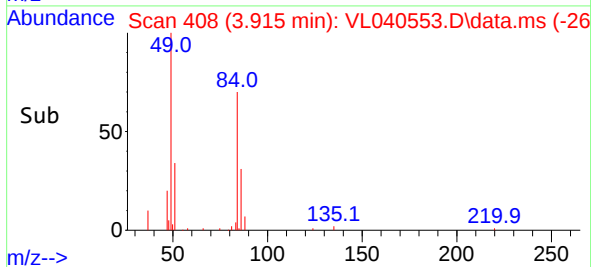
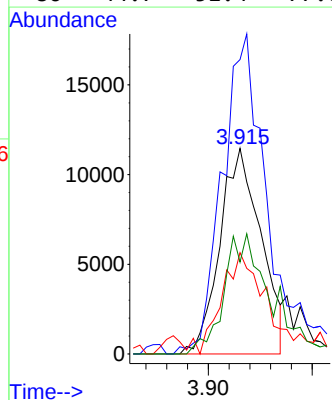
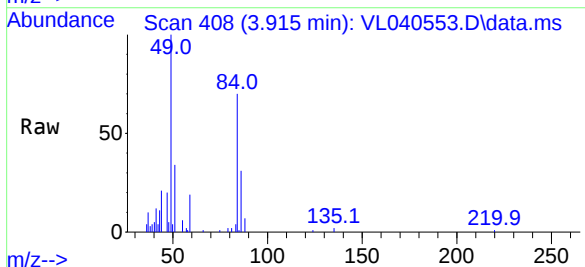
Ion Ratio Lower Upper

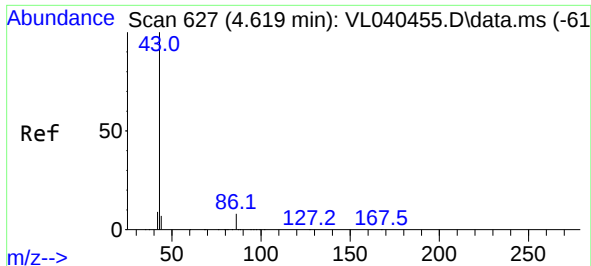
84 100

49 145.7 123.4 185.2

51 43.4 38.3 57.5

86 44.7 51.4 77.0#





#23

Vinyl Acetate

Concen: 0.056 ppbv

RT: 4.607 min Scan# 61

Delta R.T. -0.029 min

Lab File: VL040553.D

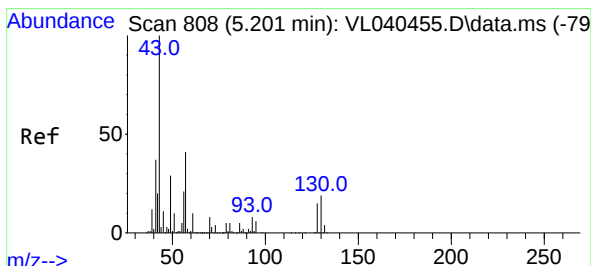
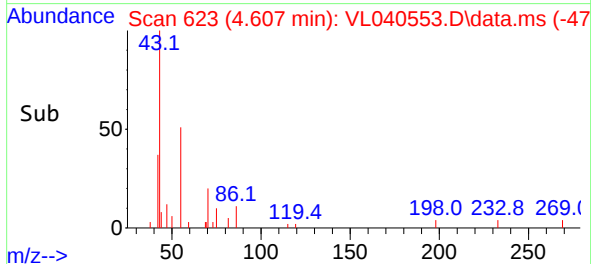
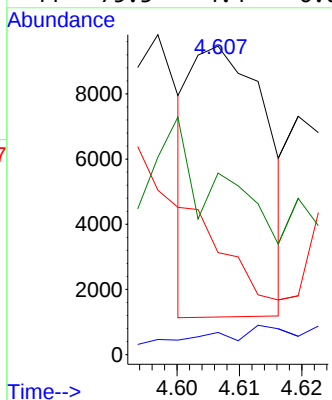
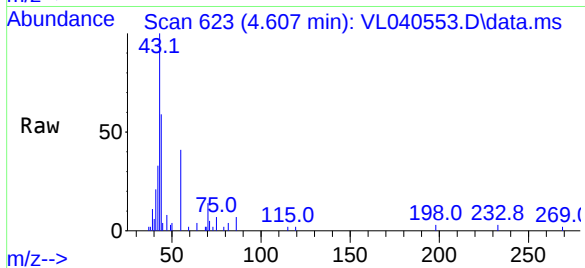
Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43	Resp: 6917
Ion Ratio	Lower Upper
43 100	
86 6.9	5.6 8.4
42 42.3	7.4 11.2#
44 75.3	4.4 6.6#



#25

Ethyl Acetate

Concen: 0.279 ppbv

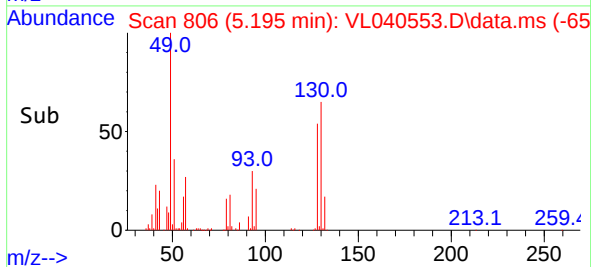
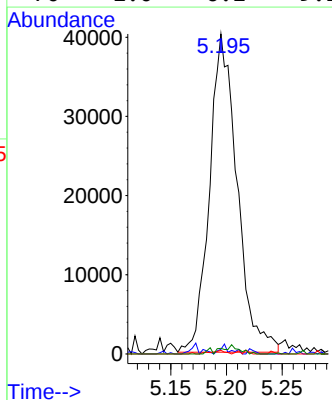
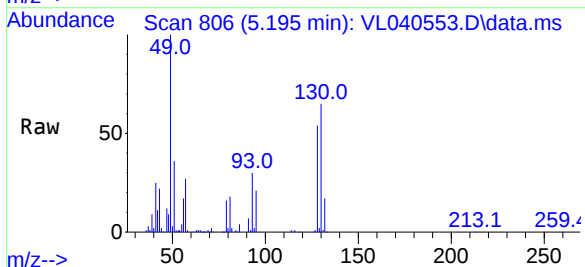
RT: 5.195 min Scan# 806

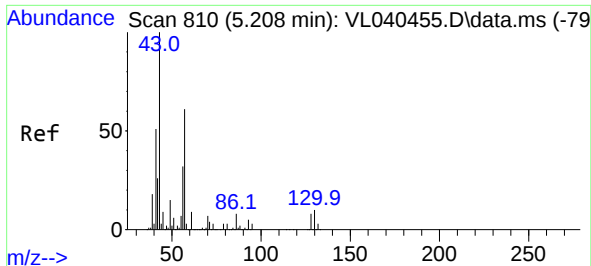
Delta R.T. -0.016 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Tgt	Ion: 43	Resp:	69434
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.9	8.3	12.5#
70	2.0	6.2	9.2#



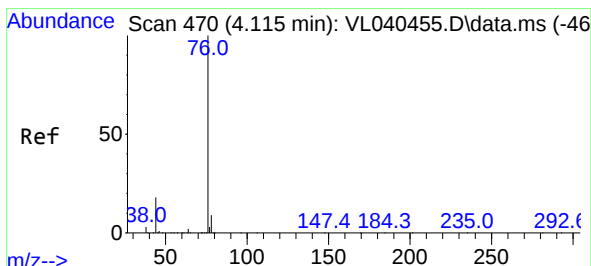
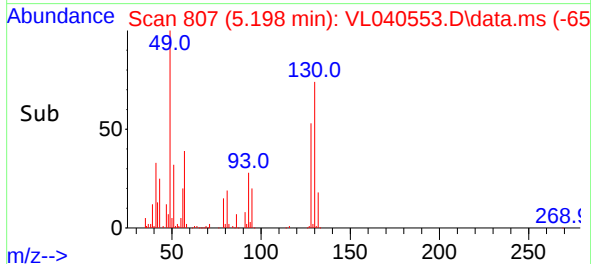
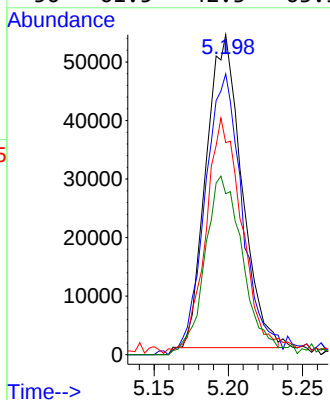
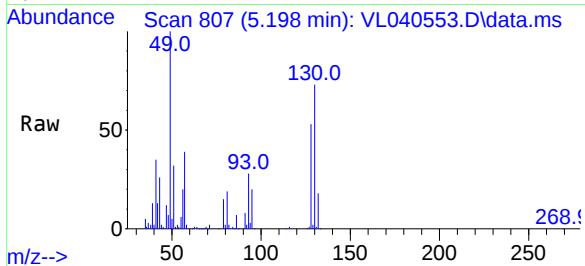


#26
Hexane
Concen: 0.768 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 88750

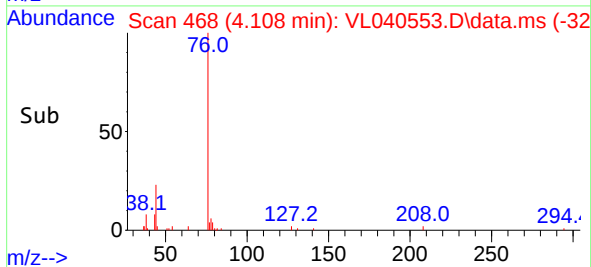
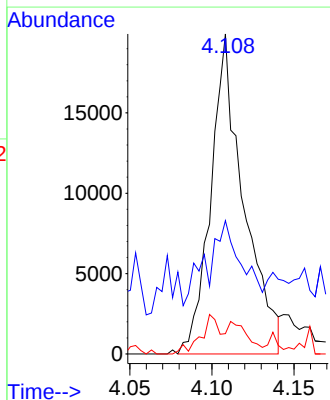
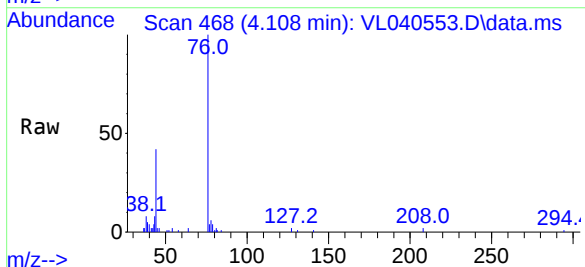
Ion	Ratio	Lower	Upper
57	100		
41	99.6	69.5	104.3
43	78.0	177.1	265.7#
56	61.5	42.3	63.5

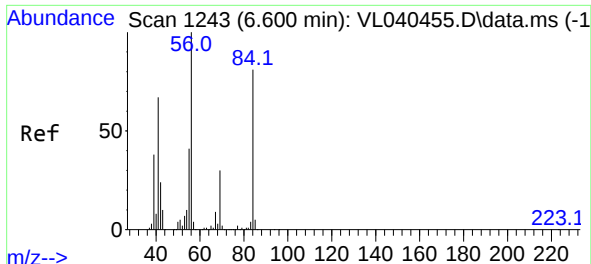


#27
Carbon Disulfide
Concen: 0.204 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 76 Resp: 27776

Ion	Ratio	Lower	Upper
76	100		
44	31.8	15.1	22.7#
78	17.8	7.5	11.3#

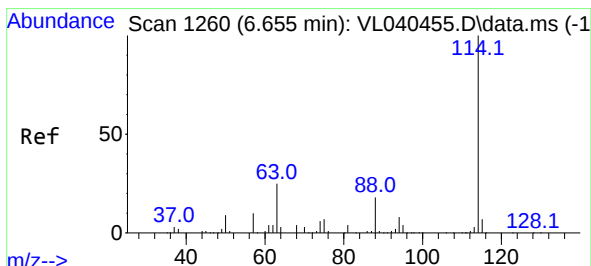
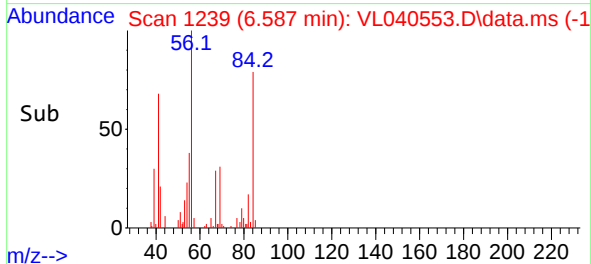
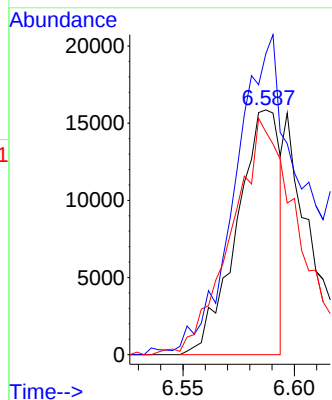
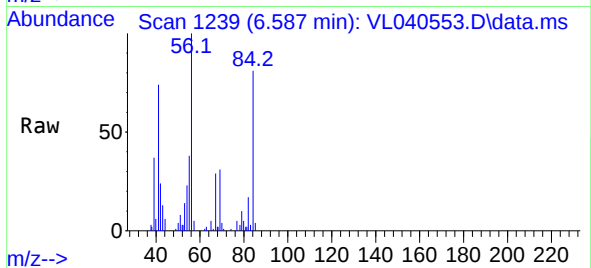




#30
Cyclohexane
Concen: 0.221 ppbv
RT: 6.587 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

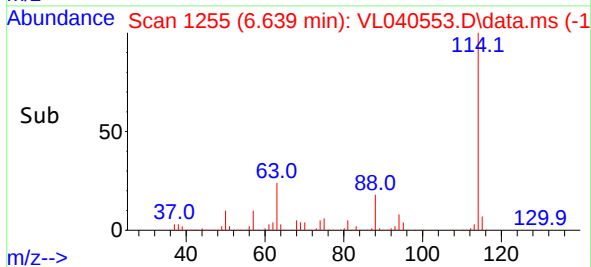
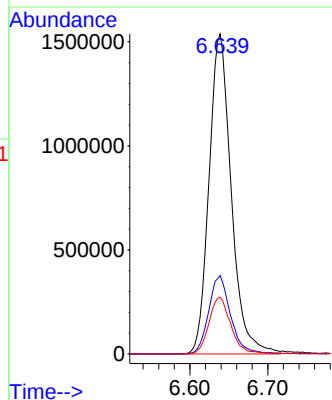
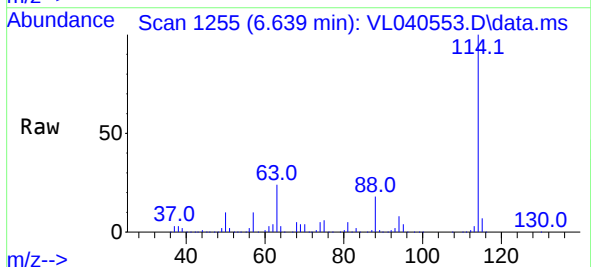
Instrument :
MSVOA_L
ClientSampleId :

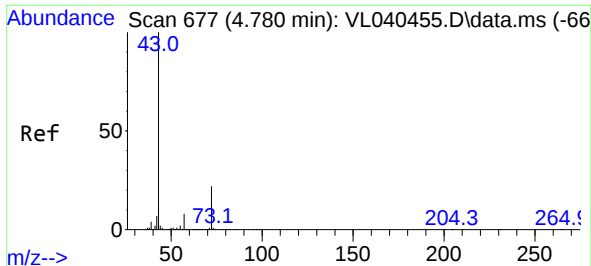
Tgt Ion: 84 Resp: 21277
Ion Ratio Lower Upper
84 100
56 185.4 108.7 163.1#
41 160.2 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 114 Resp: 3048101
Ion Ratio Lower Upper
114 100
63 24.3 19.6 29.4
88 17.6 14.2 21.2





#34

2-Butanone

Concen: 0.837 ppbv

RT: 4.774 min Scan# 61

Delta R.T. -0.019 min

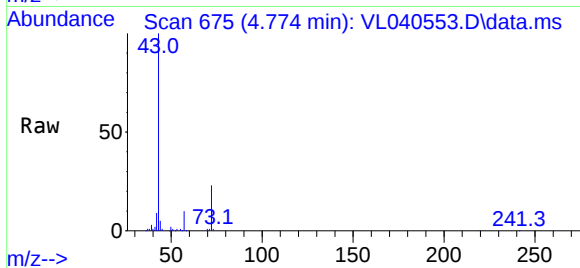
Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

ClientSampleId :

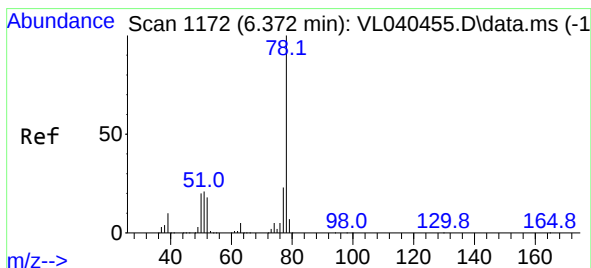
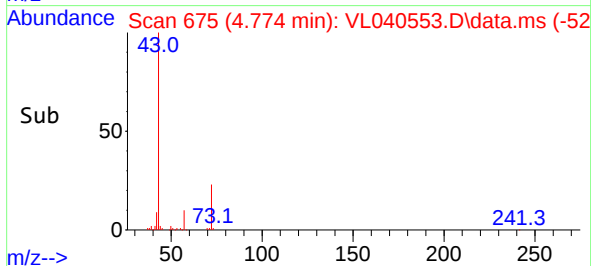
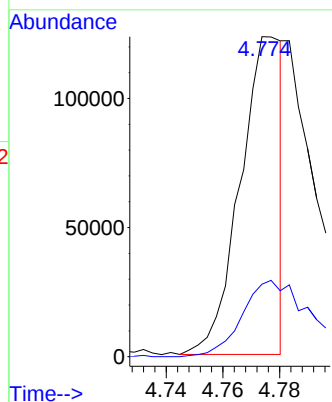


Tgt Ion: 43 Resp: 126009

Ion Ratio Lower Upper

43 100

72 47.2 19.1 28.7#



#36

Benzene

Concen: 0.061 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. -0.023 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

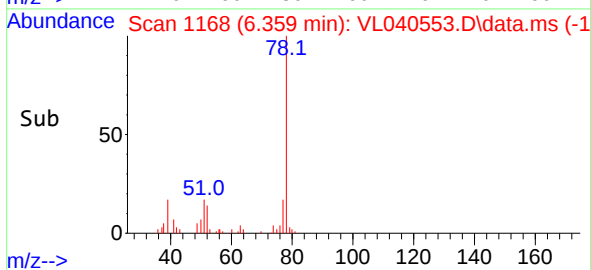
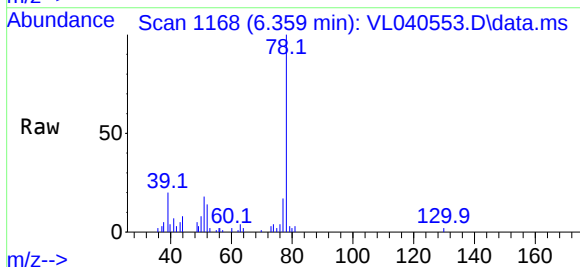
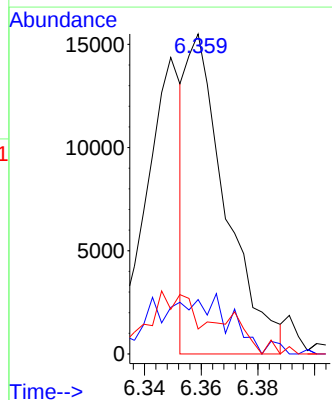
Tgt Ion: 78 Resp: 14924

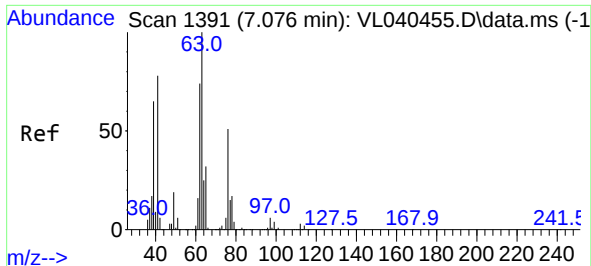
Ion Ratio Lower Upper

78 100

77 15.2 17.4 26.0#

50 8.6 14.4 21.6#





#39

1,2-Dichloropropane

Concen: 7.726 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.444 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

ClientSampleId :

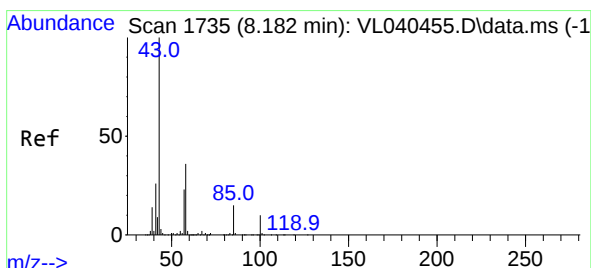
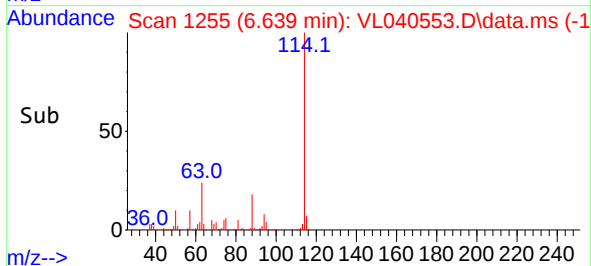
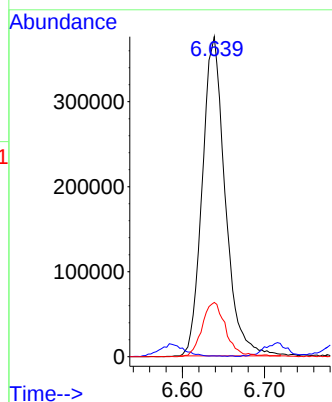
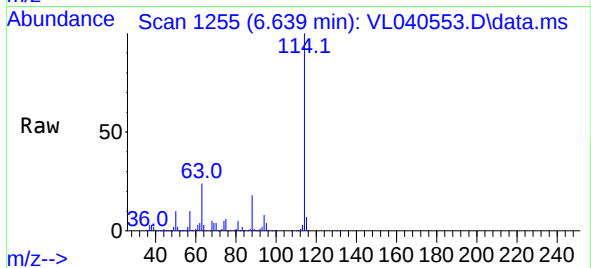
Tgt Ion: 63 Resp: 729413

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 16.9 55.6 83.4#



#50

4-Methyl-2-Pentanone

Concen: 0.448 ppbv

RT: 8.176 min Scan# 1733

Delta R.T. -0.016 min

Lab File: VL040553.D

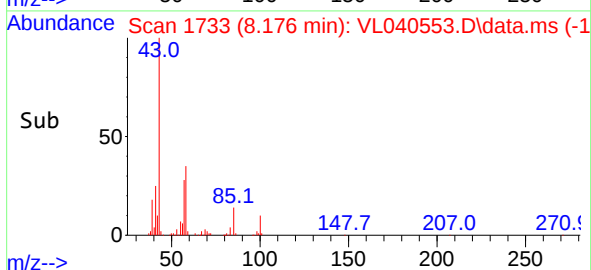
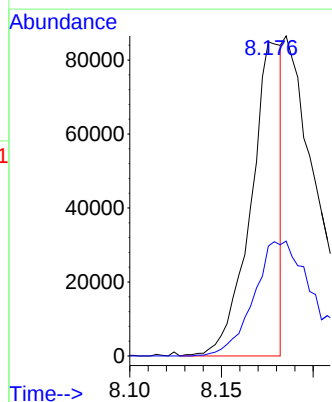
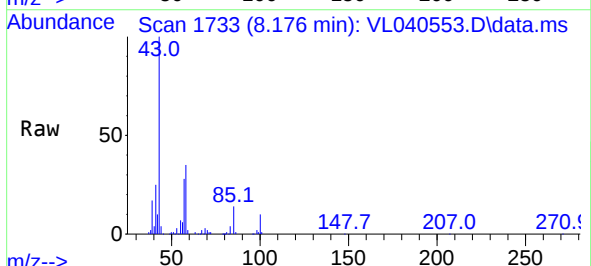
Acq: 26 Jul 2023 23:20

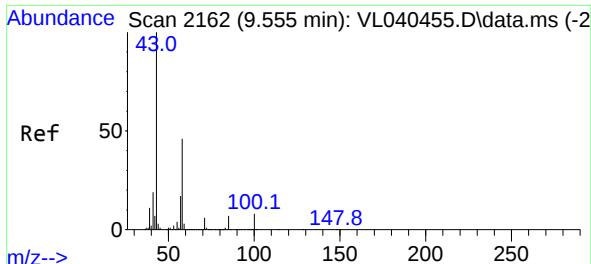
Tgt Ion: 43 Resp: 98010

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#

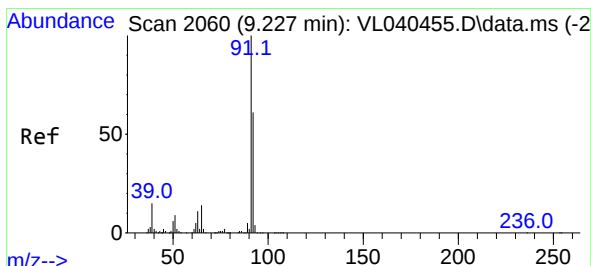
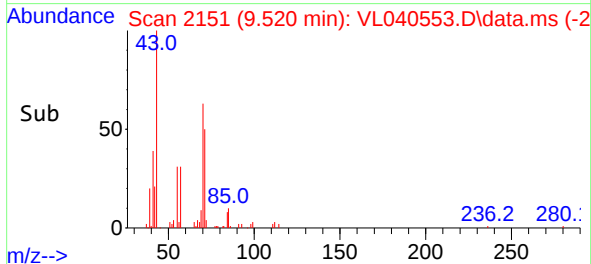
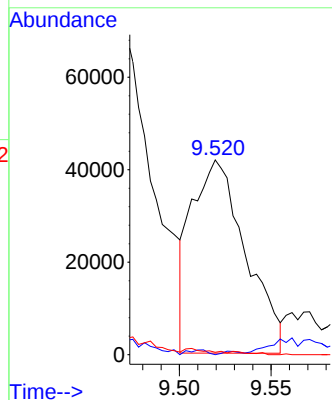
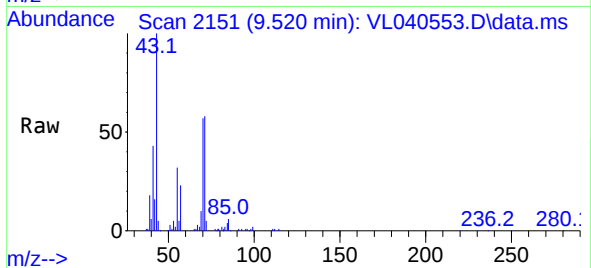




#51
2-Hexanone
Concen: 0.554 ppbv
RT: 9.520 min Scan# 2162
Delta R.T. -0.041 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

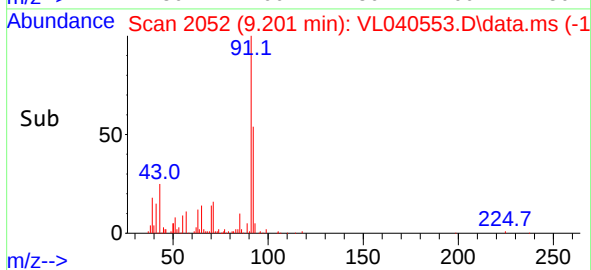
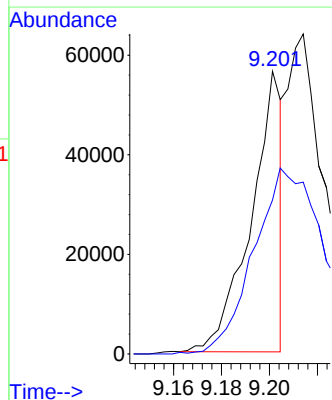
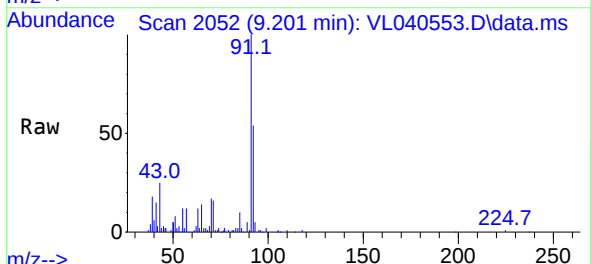
Instrument :
MSVOA_L
ClientSampleId :

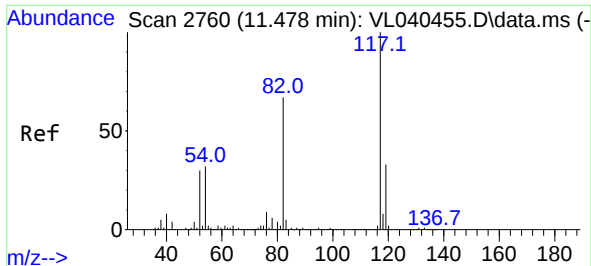
Tgt Ion: 43 Resp: 85799
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.3 0.5#



#53
Toluene
Concen: 0.188 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.029 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

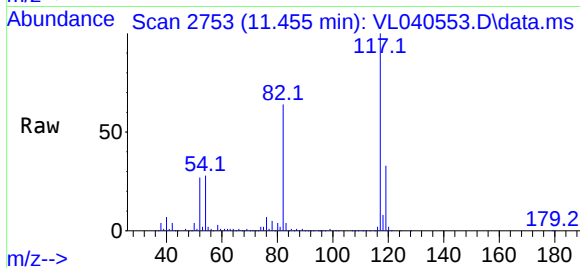
Tgt Ion: 91 Resp: 50092
Ion Ratio Lower Upper
91 100
92 158.1 49.1 73.7#



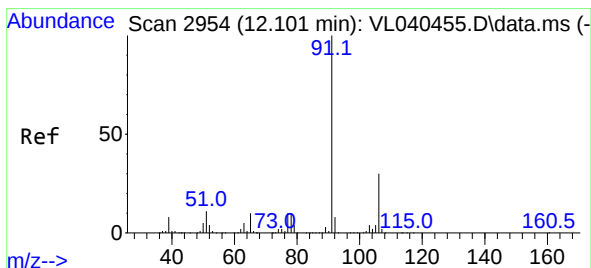
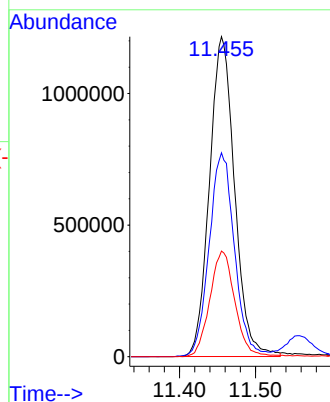
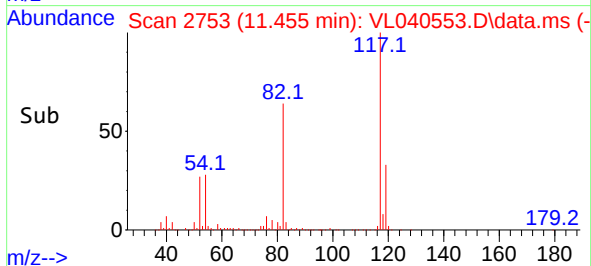


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Instrument :
MSVOA_L
ClientSampleId :

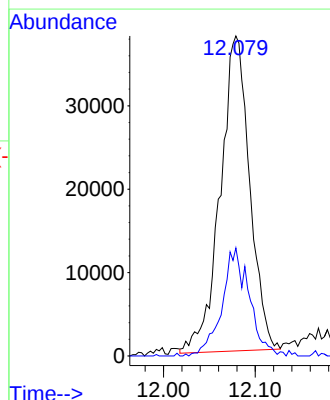
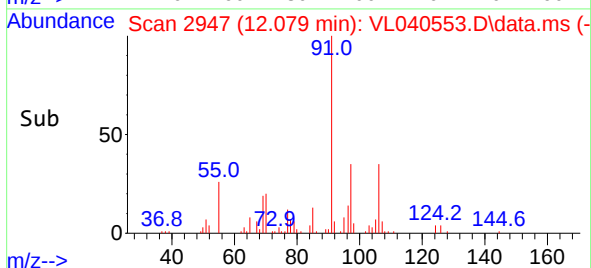
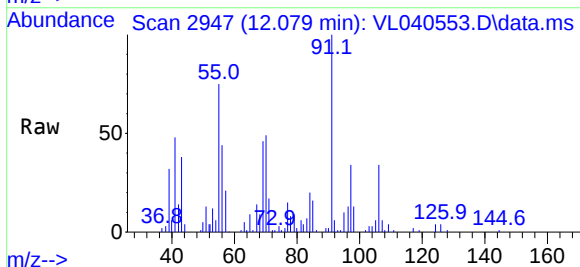


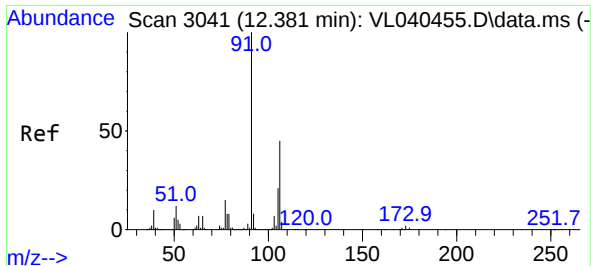
Tgt Ion:117 Resp: 2787008
Ion Ratio Lower Upper
117 100
82 64.6 50.2 75.4
119 33.3 26.9 40.3



#58
Ethyl Benzene
Concen: 0.242 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 91 Resp: 84481
Ion Ratio Lower Upper
91 100
106 34.5 25.4 38.0





#59

m/p-Xylene

Concen: 0.054 ppbv

RT: 12.362 min Scan# 3041

Delta R.T. -0.023 min

Lab File: VL040553.D

Acq: 26 Jul 2023 23:20

Instrument :

MSVOA_L

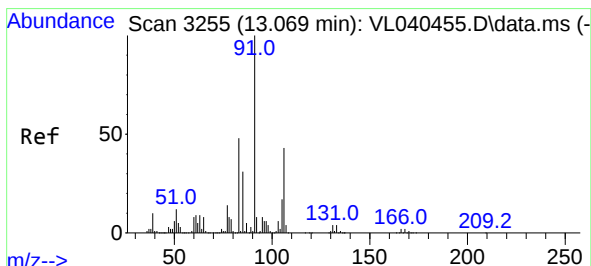
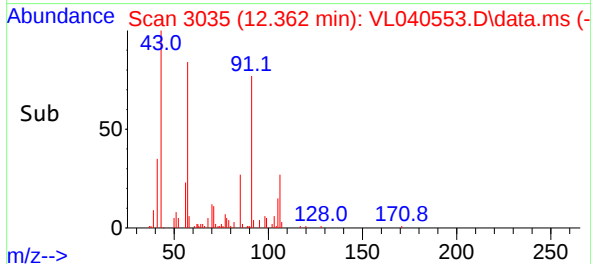
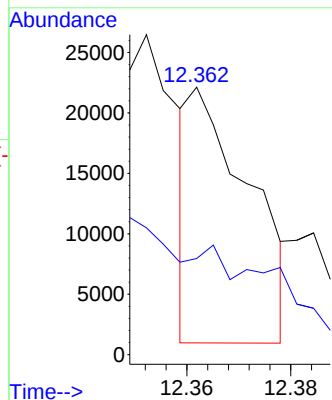
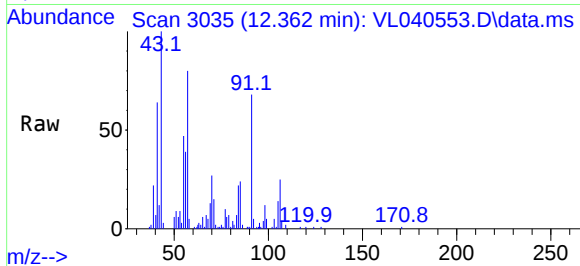
ClientSampleId :

Tgt Ion: 91 Resp: 16861

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#



#60

o-Xylene

Concen: 0.084 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.029 min

Lab File: VL040553.D

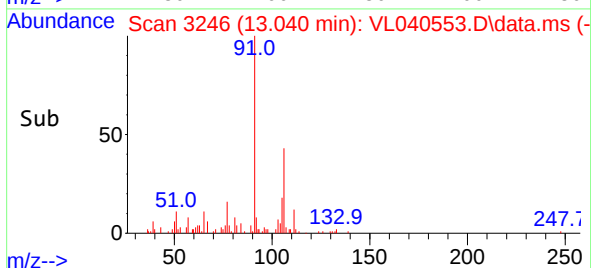
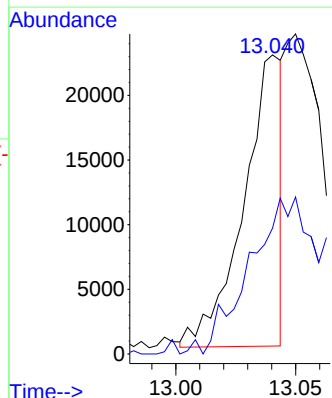
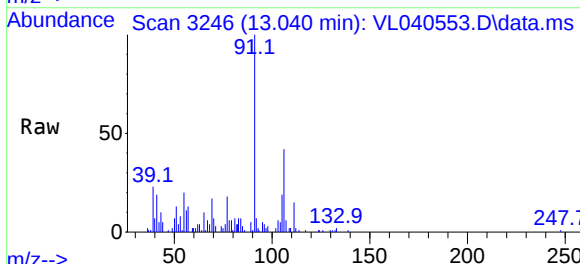
Acq: 26 Jul 2023 23:20

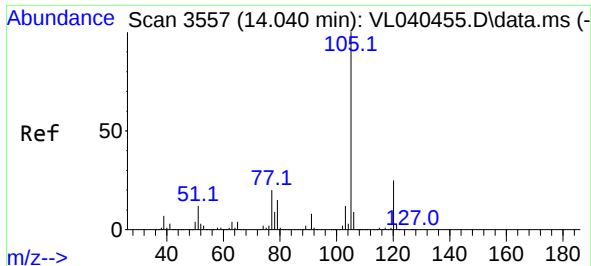
Tgt Ion: 91 Resp: 25043

Ion Ratio Lower Upper

91 100

106 0.0 22.7 68.0#

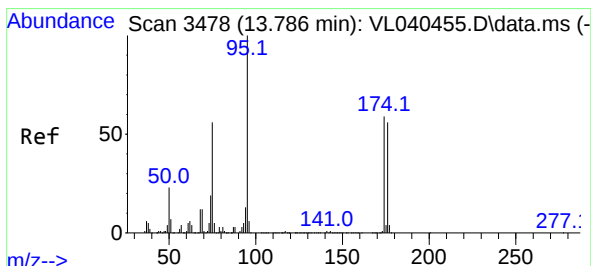
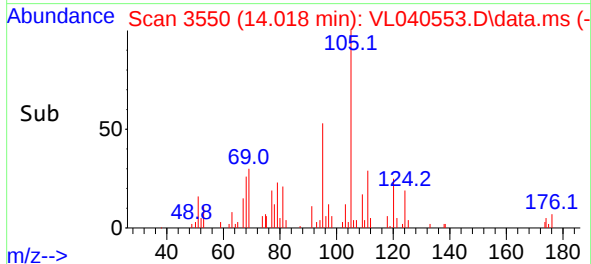
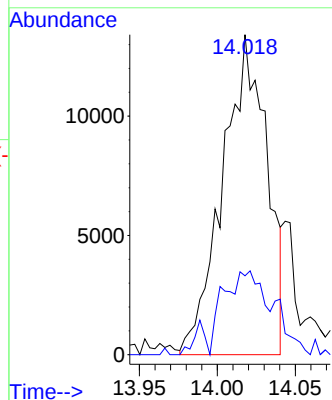
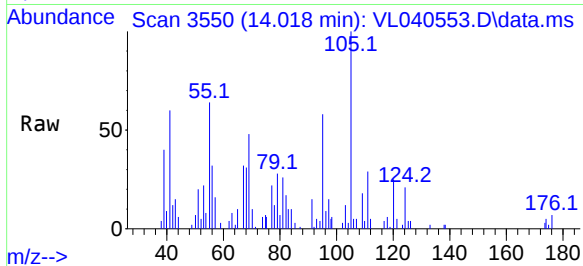




#62
Isopropylbenzene
Concen: 0.059 ppbv
RT: 14.018 min Scan# 3550
Delta R.T. -0.023 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

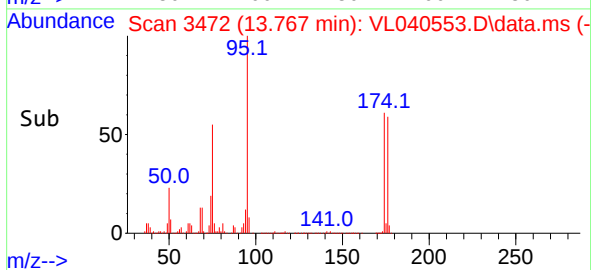
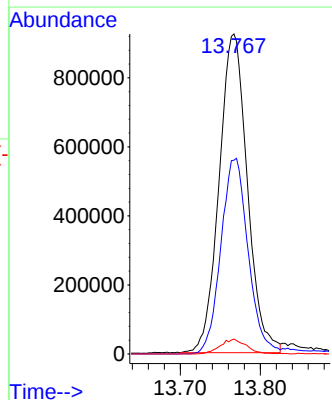
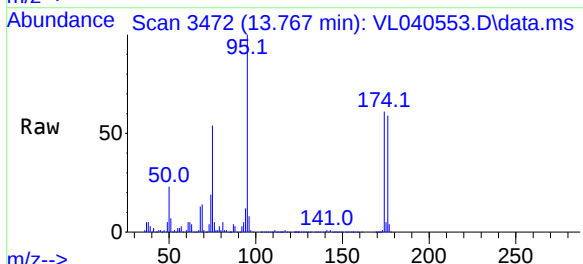
Instrument :
MSVOA_L
ClientSampleId :

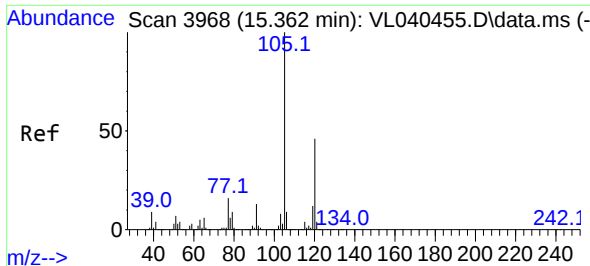
Tgt Ion:105 Resp: 26435
Ion Ratio Lower Upper
105 100
120 32.6 20.8 31.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.271 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.016 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion: 95 Resp: 2265518
Ion Ratio Lower Upper
95 100
174 61.6 50.6 75.8
175 4.4 3.7 5.5

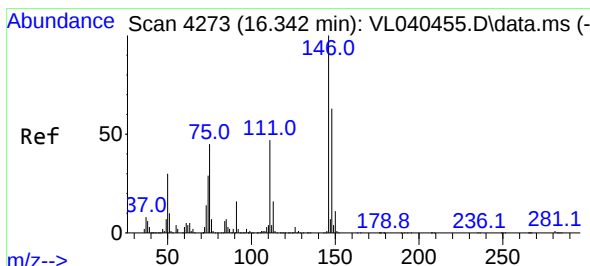
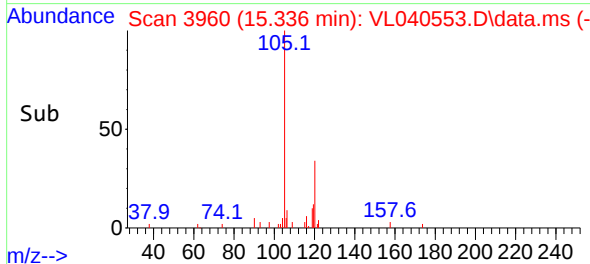
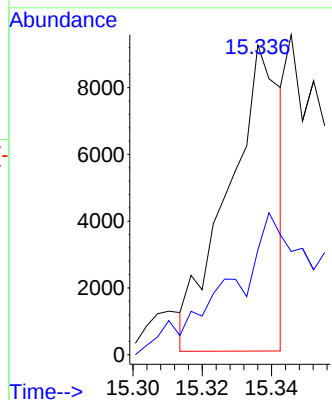
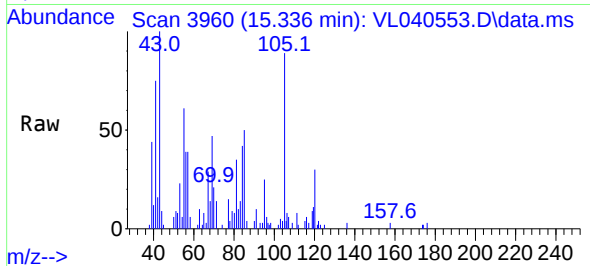




#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 15.336 min Scan# 3968
Delta R.T. -0.026 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 9519
Ion Ratio Lower Upper
105 100
120 31.9 38.2 57.2#



#75
1,3-Dichlorobenzene
Concen: 0.054 ppbv
RT: 16.326 min Scan# 4268
Delta R.T. -0.016 min
Lab File: VL040553.D
Acq: 26 Jul 2023 23:20

Tgt Ion:146 Resp: 11821
Ion Ratio Lower Upper
146 100
111 45.1 23.6 71.0
148 0.0 32.2 96.6#

