

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040550.D
 Acq On : 26 Jul 2023 21:15
 Operator : SY/MD
 Sample : 03730-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 01:52:29 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)

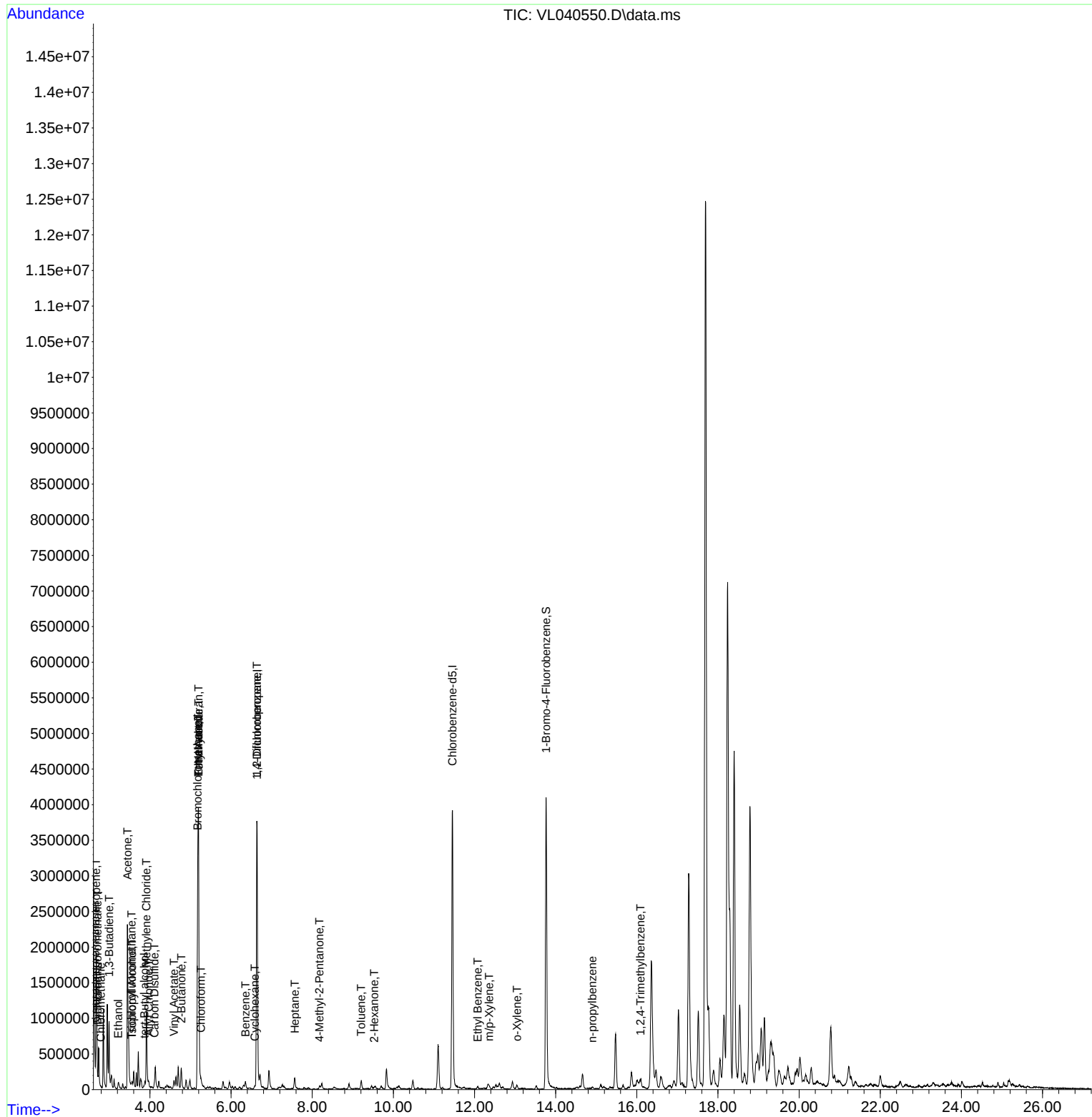
Internal Standards						
1) Bromochloromethane	5.176	49	1088685	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2723031	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.455	117	2480480	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2006280	10.220	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.706	85	26832	0.123	ppbv	98
3) Chlorodifluoromethane	2.655	51	10269	0.060	ppbv	94
4) Chloromethane	2.793	50	6520	0.095	ppbv	97
9) Propene	2.674	41	682950	11.560	ppbv	93
10) Heptane	7.568	43	53030	0.407	ppbv	92
11) Trichlorofluoromethane	3.546	101	15400	0.088	ppbv	97
13) Ethanol	3.221	45	96381	7.499	ppbv	95
15) Acetone	3.446	43	2382618	19.013	ppbv	92
16) 1,3-Butadiene	2.993	39	119209	1.886	ppbv #	8
17) tert-Butyl alcohol	3.867	59	13514	0.104	ppbv #	24
19) Isopropyl Alcohol	3.558	45	55673	0.774	ppbv #	96
20) Methylene Chloride	3.915	84	346223	6.495	ppbv	98
21) Allyl Chloride	3.967	41	5482	0.077	ppbv #	1
23) Vinyl Acetate	4.594	43	41384	0.347	ppbv #	35
25) Ethyl Acetate	5.198	43	898006	3.764	ppbv #	75
26) Hexane	5.195	57	1338722	12.078	ppbv #	40
27) Carbon Disulfide	4.108	76	68375	0.524	ppbv #	89
29) Chloroform	5.256	83	27688	0.151	ppbv	87
30) Cyclohexane	6.584	84	8229	0.089	ppbv #	46
34) 2-Butanone	4.774	43	321025	2.386	ppbv	99
36) Benzene	6.356	78	76352	0.348	ppbv	96
39) 1,2-Dichloropropane	6.636	63	692449	8.210	ppbv #	26
41) Tetrahydrofuran	5.198	42	504427	6.424	ppbv #	47
50) 4-Methyl-2-Pentanone	8.176	43	9732	0.050	ppbv #	10
51) 2-Hexanone	9.529	43	4844	0.035	ppbv #	28
53) Toluene	9.208	91	81312	0.342	ppbv	98
58) Ethyl Benzene	12.076	91	19086	0.061	ppbv	99
59) m/p-Xylene	12.359	91	21448	0.077	ppbv #	31
60) o-Xylene	13.050	91	21985	0.083	ppbv #	62
64) n-propylbenzene	14.905	120	4302	0.042	ppbv #	64
74) 1,2,4-Trimethylbenzene	16.089	105	31160	0.098	ppbv #	60

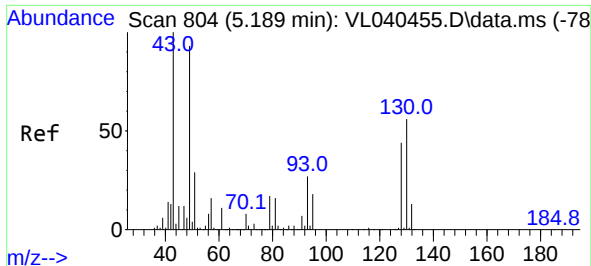
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
Data File : VL040550.D
Acq On : 26 Jul 2023 21:15
Operator : SY/MD
Sample : 03730-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

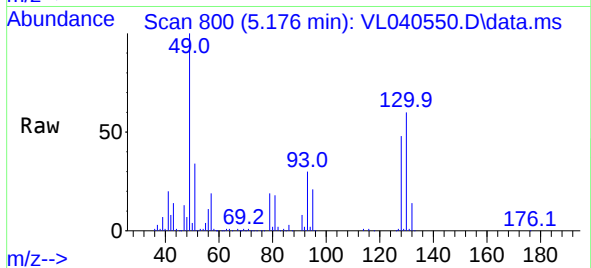
Quant Time: Jul 27 01:52:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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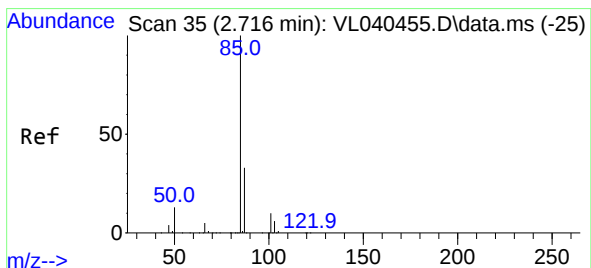
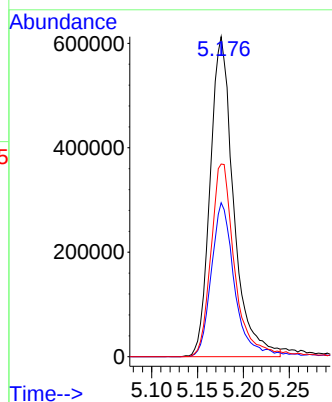
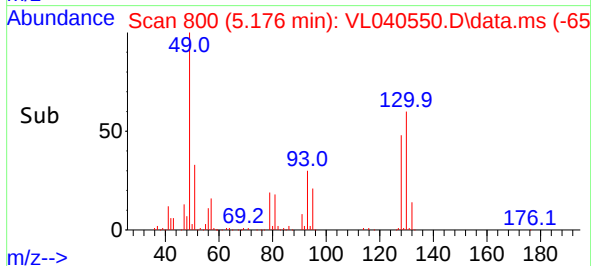


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Instrument :
MSVOA_L
ClientSampleId :

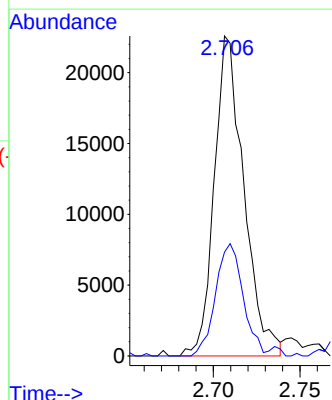
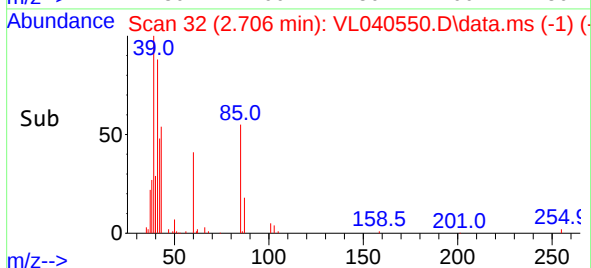
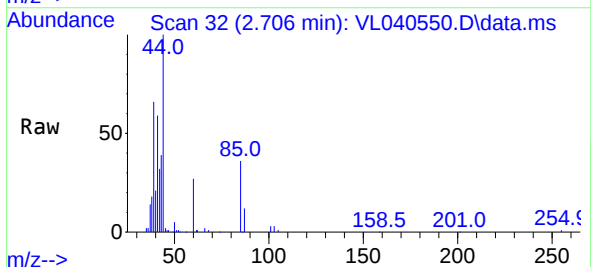


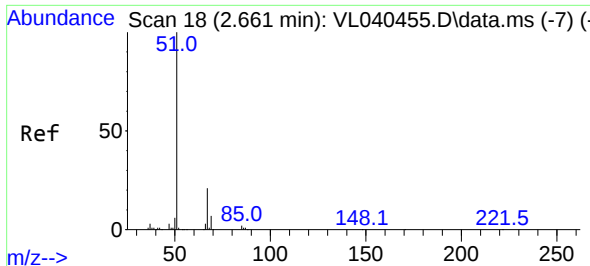
Tgt Ion: 49 Resp: 1088685
Ion Ratio Lower Upper
49 100
128 49.1 25.1 75.4
130 62.0 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.123 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.032 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 85 Resp: 26832
Ion Ratio Lower Upper
85 100
87 32.4 26.8 40.2

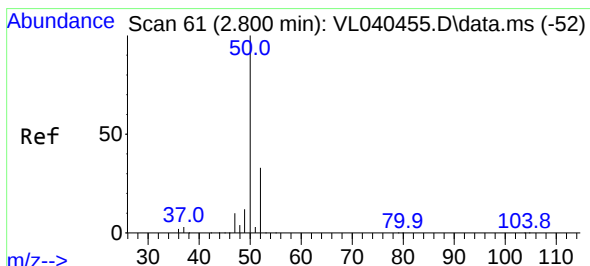
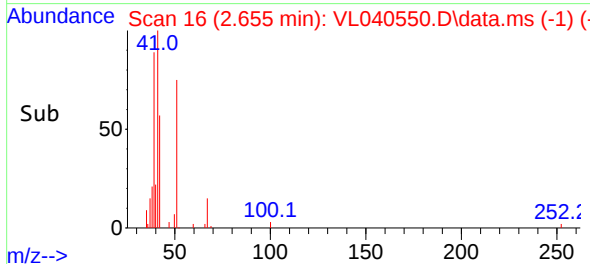
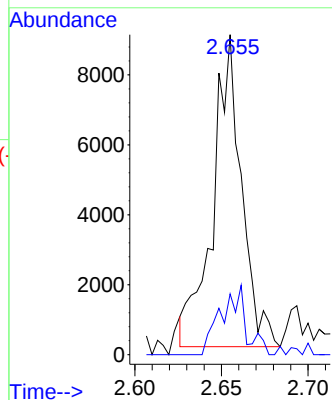
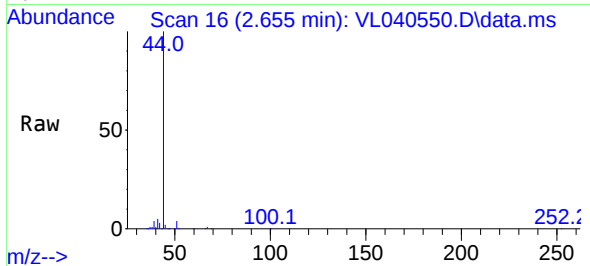




#3
Chlorodifluoromethane
Concen: 0.060 ppbv
RT: 2.655 min Scan# 11
Delta R.T. -0.029 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

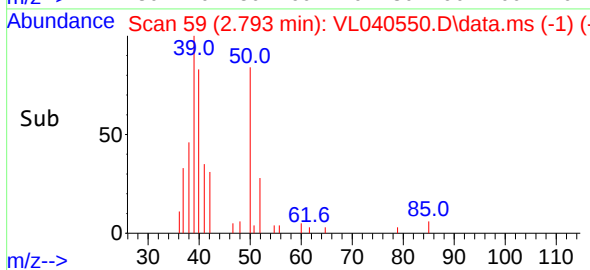
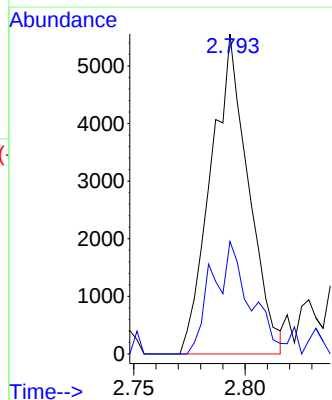
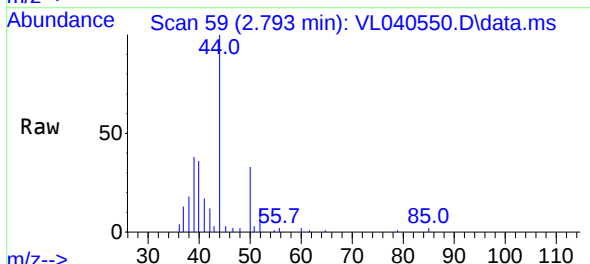
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 10269
Ion Ratio Lower Upper
51 100
67 21.1 14.6 21.8

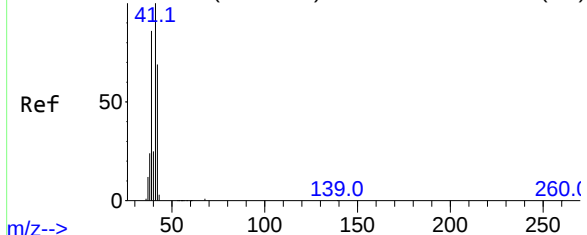


#4
Chloromethane
Concen: 0.095 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.029 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 50 Resp: 6520
Ion Ratio Lower Upper
50 100
52 31.9 24.4 36.6



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



#9

Propene

Concen: 11.560 ppbv

RT: 2.674 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

Instrument :

MSVOA_L

ClientSampleId :

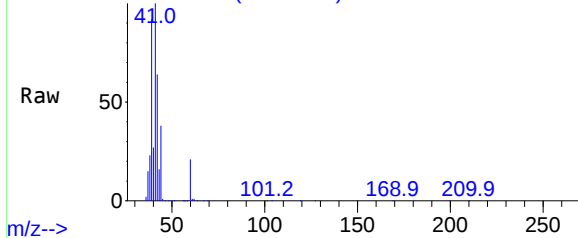
Tgt Ion: 41 Resp: 682950

Ion Ratio Lower Upper

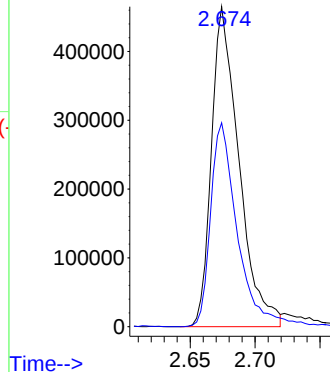
41 100

42 62.8 55.0 82.6

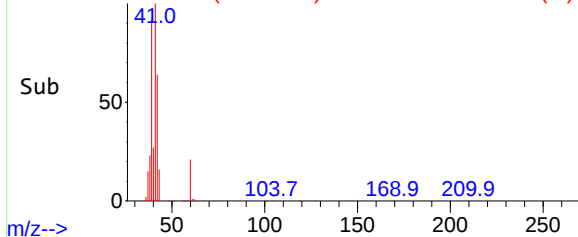
Abundance Scan 22 (2.674 min): VL040550.D\data.ms



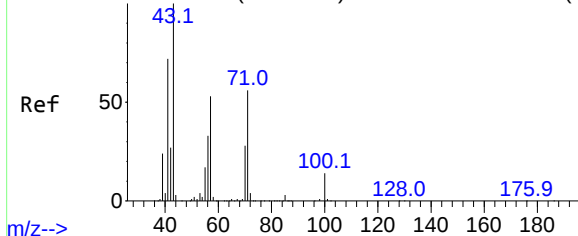
Abundance



Abundance Scan 22 (2.674 min): VL040550.D\data.ms (-1)



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



#10

Heptane

Concen: 0.407 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. -0.023 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

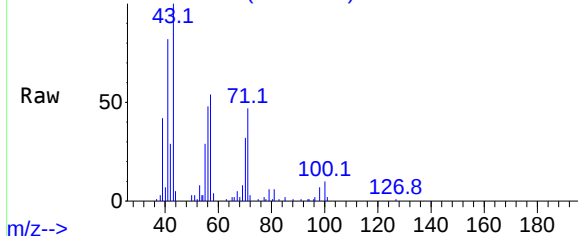
Tgt Ion: 43 Resp: 53030

Ion Ratio Lower Upper

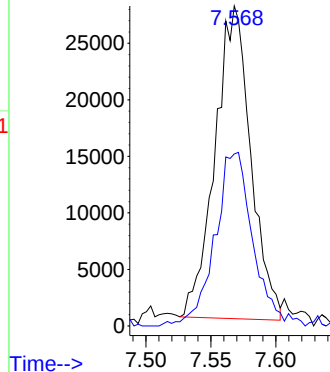
43 100

57 59.1 42.5 63.7

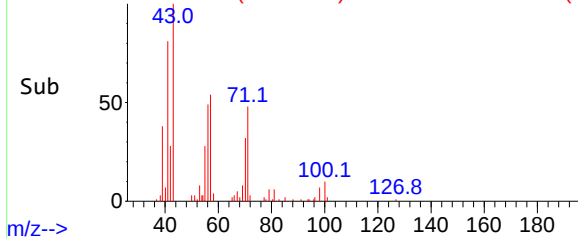
Abundance Scan 1544 (7.568 min): VL040550.D\data.ms

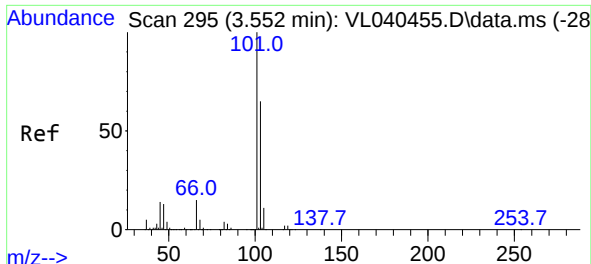


Abundance



Abundance Scan 1544 (7.568 min): VL040550.D\data.ms (-1)

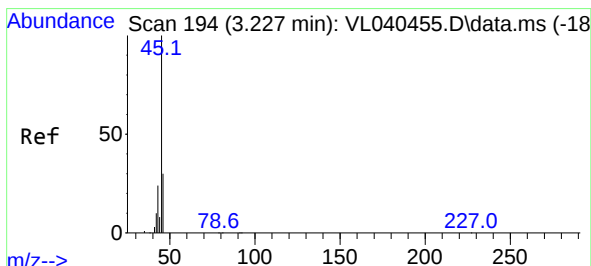
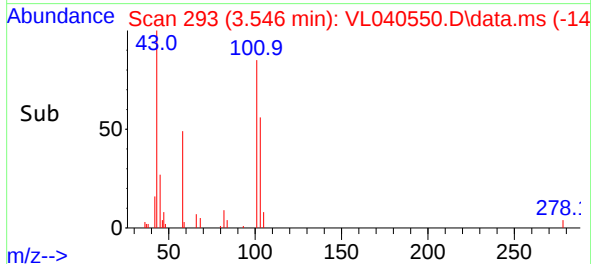
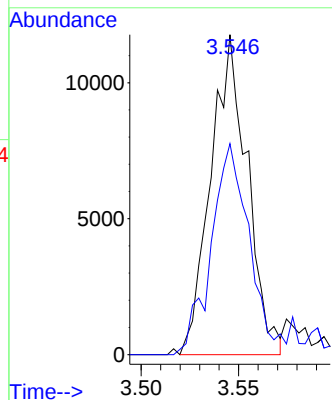
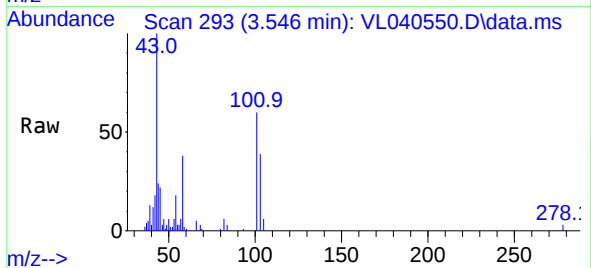




#11
Trichlorofluoromethane
Concen: 0.088 ppbv
RT: 3.546 min Scan# 295
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

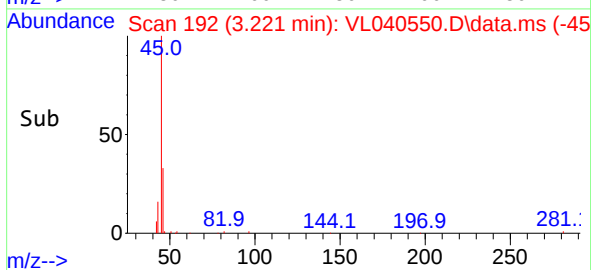
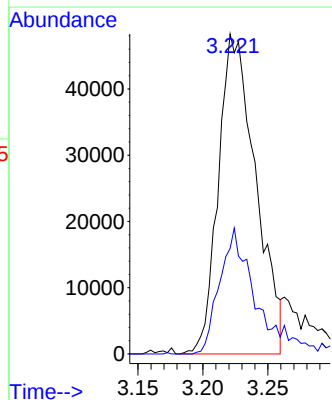
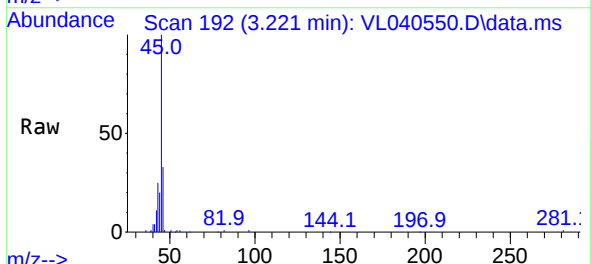
Instrument :
MSVOA_L
ClientSampleId :

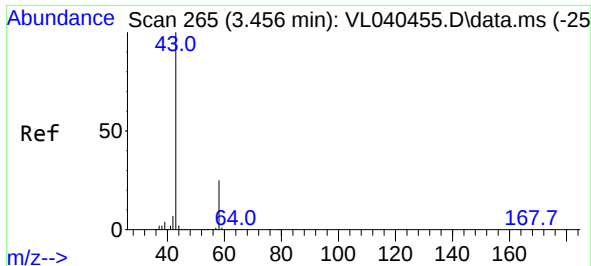
Tgt Ion:101 Resp: 15400
Ion Ratio Lower Upper
101 100
103 64.3 53.4 80.0



#13
Ethanol
Concen: 7.499 ppbv
RT: 3.221 min Scan# 192
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 45 Resp: 96381
Ion Ratio Lower Upper
45 100
46 40.9 15.3 61.1

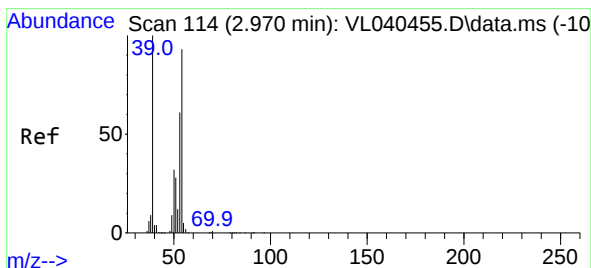
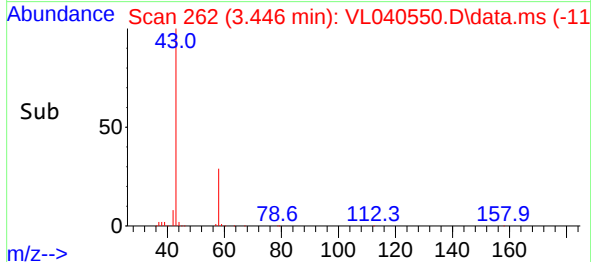
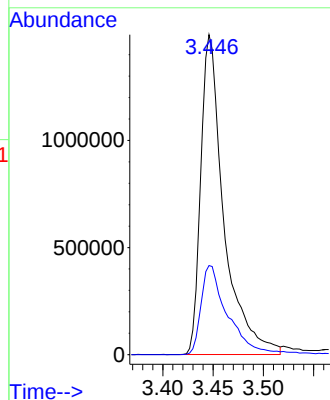
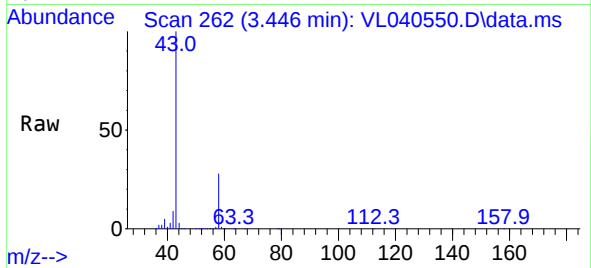




#15
Acetone
Concen: 19.013 ppbv
RT: 3.446 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

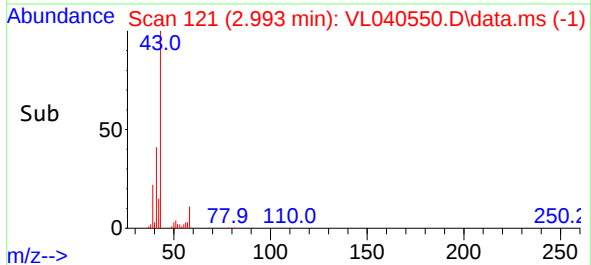
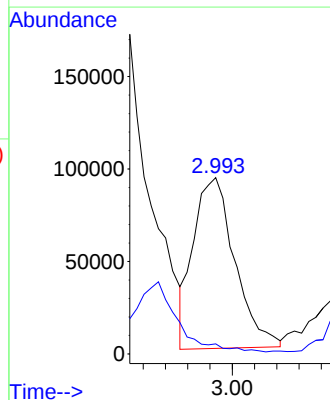
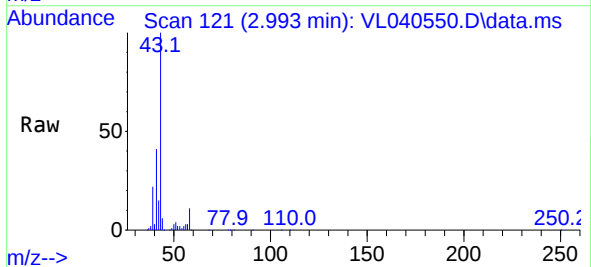
Instrument :
MSVOA_L
ClientSampleId :

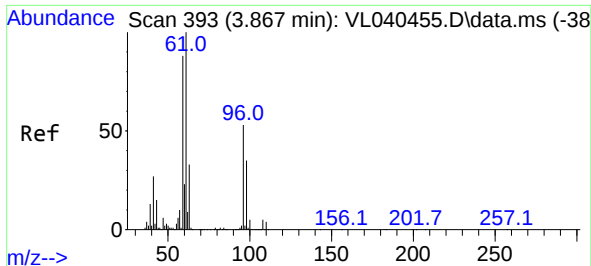
Tgt Ion: 43 Resp: 2382618
Ion Ratio Lower Upper
43 100
58 33.0 22.9 34.3



#16
1,3-Butadiene
Concen: 1.886 ppbv
RT: 2.993 min Scan# 121
Delta R.T. -0.000 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 39 Resp: 119209
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#

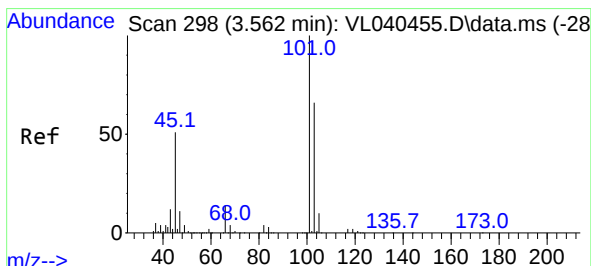
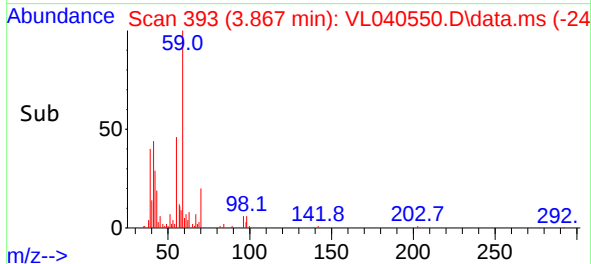
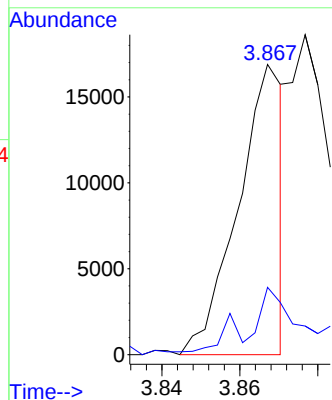
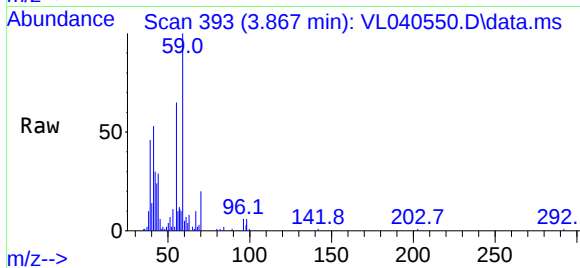




#17
tert-Butyl alcohol
Concen: 0.104 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.016 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

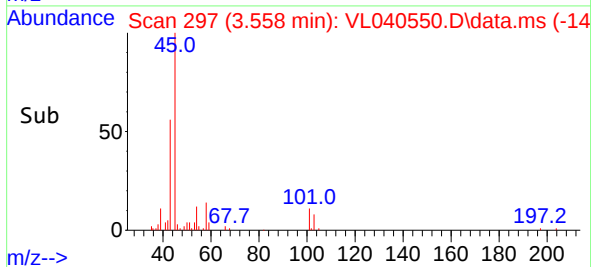
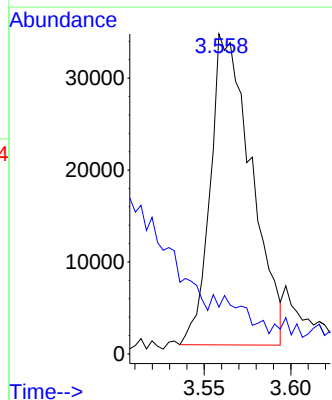
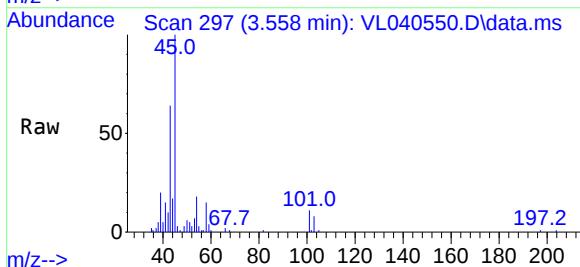
Instrument :
MSVOA_L
ClientSampleId :

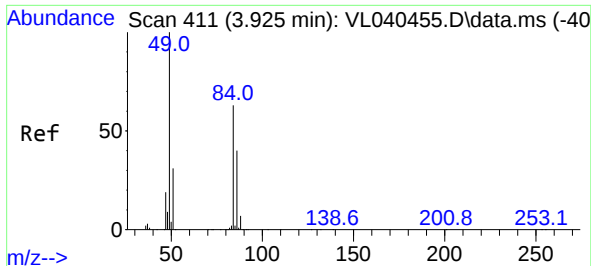
Tgt Ion: 59 Resp: 13514
Ion Ratio Lower Upper
59 100
57 39.5 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 0.774 ppbv
RT: 3.558 min Scan# 297
Delta R.T. -0.023 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

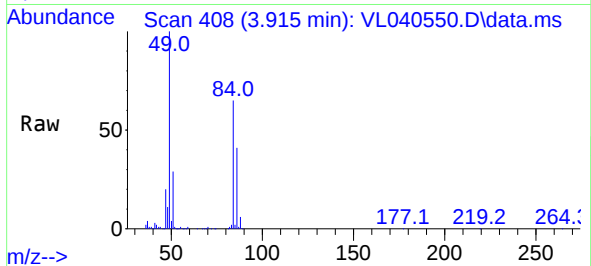
Tgt Ion: 45 Resp: 55673
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#





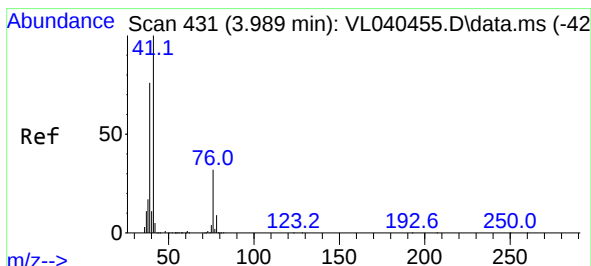
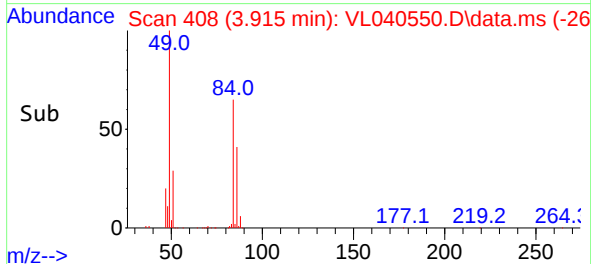
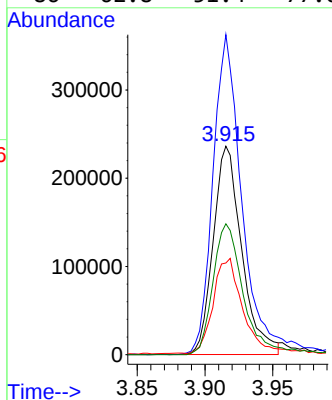
#20
Methylene Chloride
Concen: 6.495 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 346223

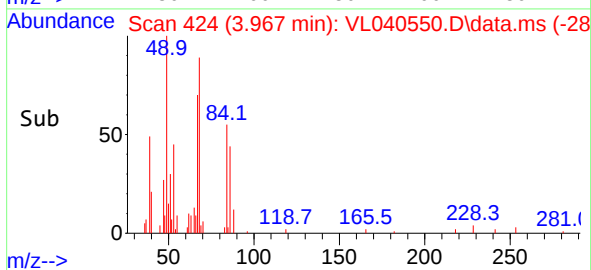
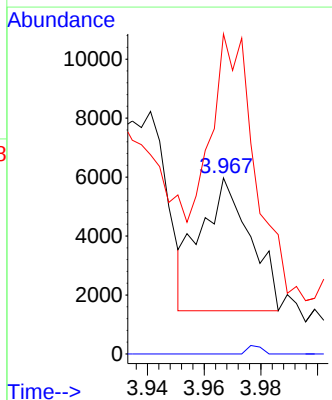
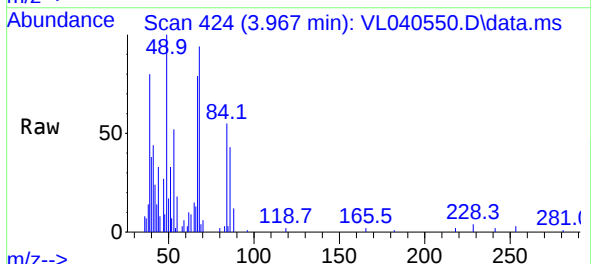
Ion	Ratio	Lower	Upper
84	100		
49	153.5	123.4	185.2
51	43.2	38.3	57.5
86	62.8	51.4	77.0

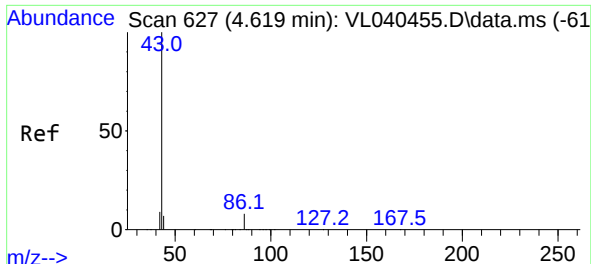


#21
Allyl Chloride
Concen: 0.077 ppbv
RT: 3.967 min Scan# 424
Delta R.T. -0.039 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 41 Resp: 5482

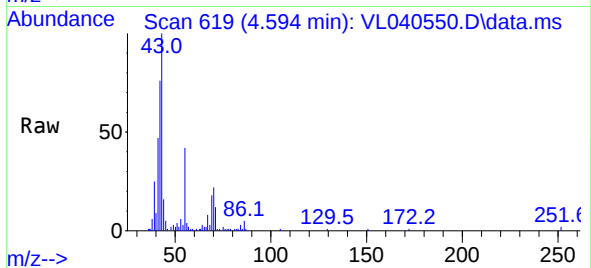
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	264.7	60.6	91.0#





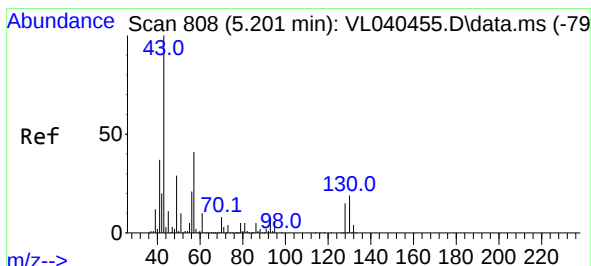
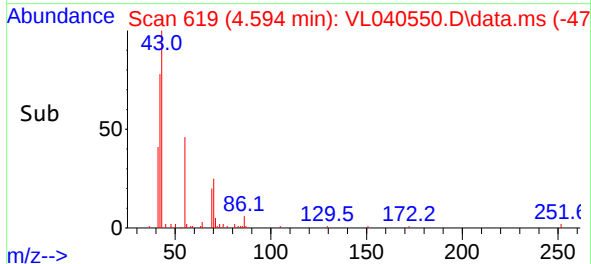
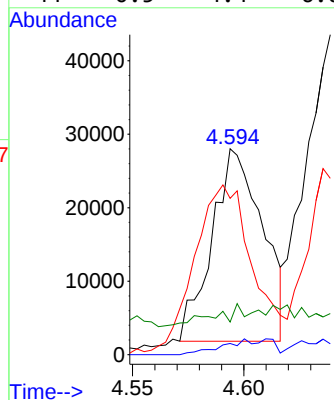
#23
 Vinyl Acetate
 Concen: 0.347 ppbv
 RT: 4.594 min Scan# 61
 Delta R.T. -0.042 min
 Lab File: VL040550.D
 Acq: 26 Jul 2023 21:15

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 41384

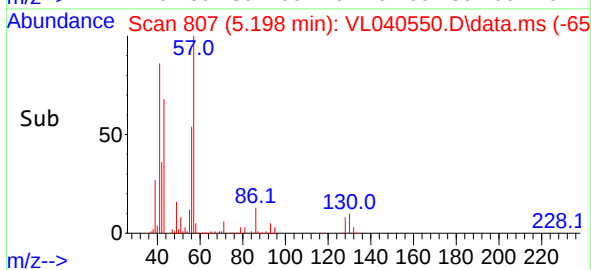
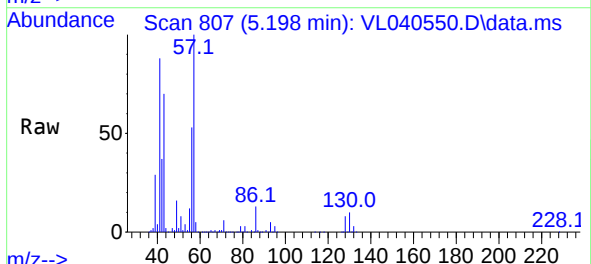
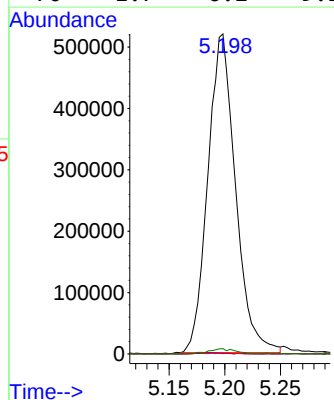
Ion	Ratio	Lower	Upper
43	100		
86	5.9	5.6	8.4
42	60.7	7.4	11.2#
44	0.5	4.4	6.6#

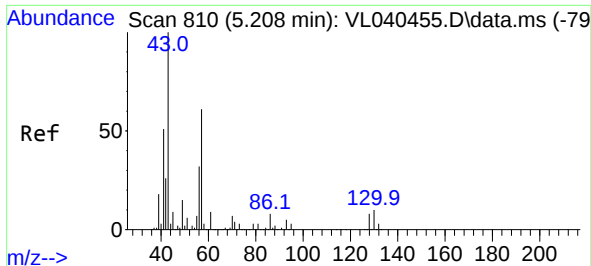


#25
 Ethyl Acetate
 Concen: 3.764 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.013 min
 Lab File: VL040550.D
 Acq: 26 Jul 2023 21:15

Tgt Ion: 43 Resp: 898006

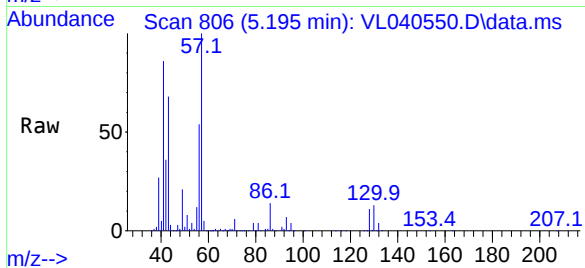
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.4#
61	0.0	8.3	12.5#
70	1.7	6.2	9.2#



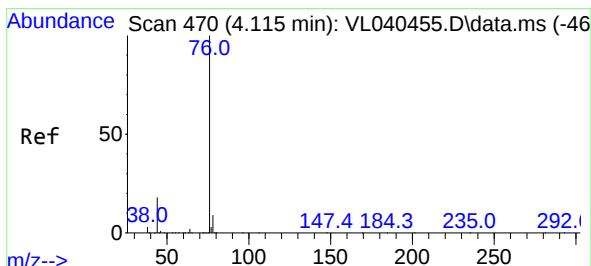
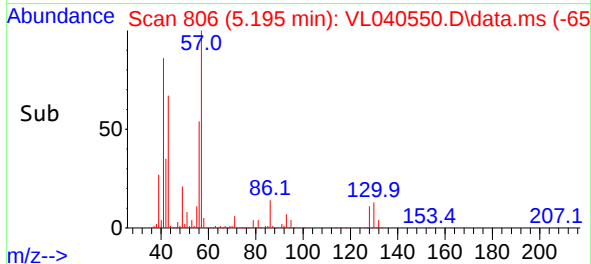
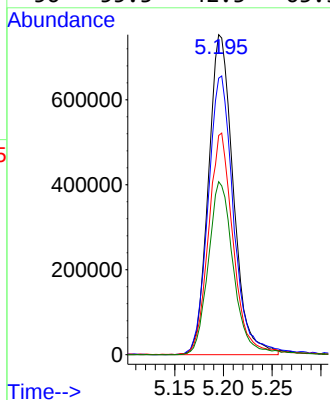


#26
Hexane
Concen: 12.078 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Instrument :
MSVOA_L
ClientSampleId :

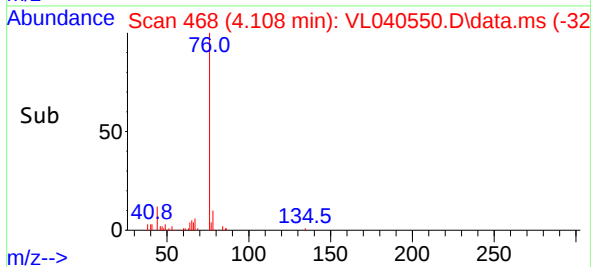
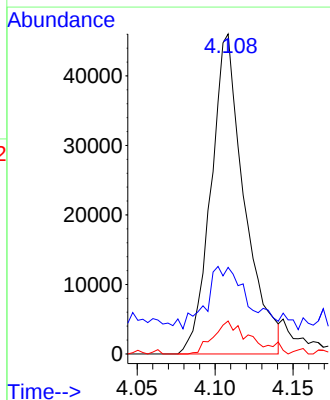
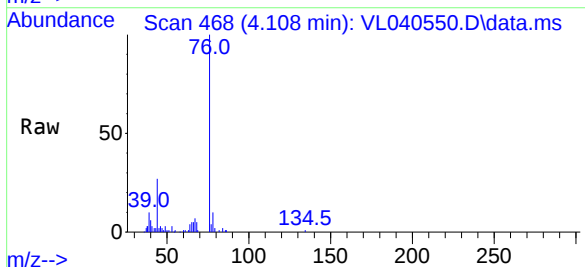


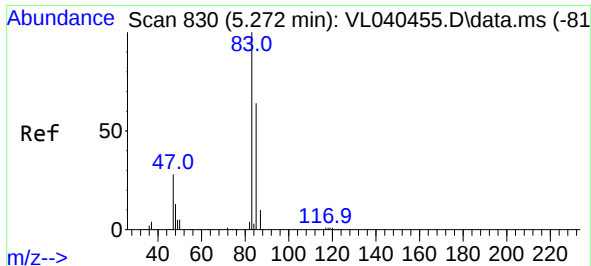
Tgt Ion: 57 Resp: 1338722
Ion Ratio Lower Upper
57 100
41 91.2 69.5 104.3
43 68.9 177.1 265.7#
56 55.3 42.3 63.5



#27
Carbon Disulfide
Concen: 0.524 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.023 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 76 Resp: 68375
Ion Ratio Lower Upper
76 100
44 25.1 15.1 22.7#
78 11.9 7.5 11.3#





#29

Chloroform

Concen: 0.151 ppbv

RT: 5.256 min Scan# 81

Delta R.T. -0.029 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

Instrument :

MSVOA_L

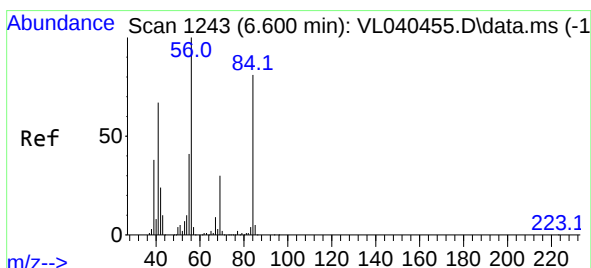
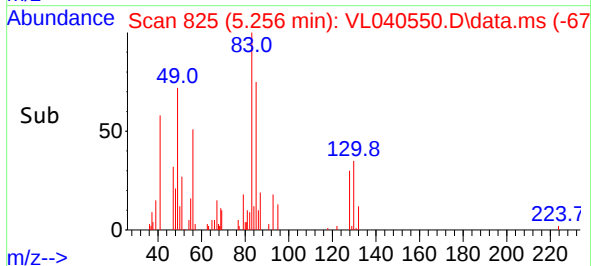
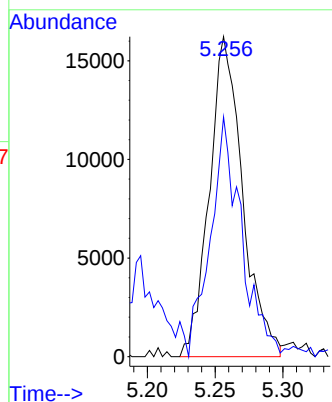
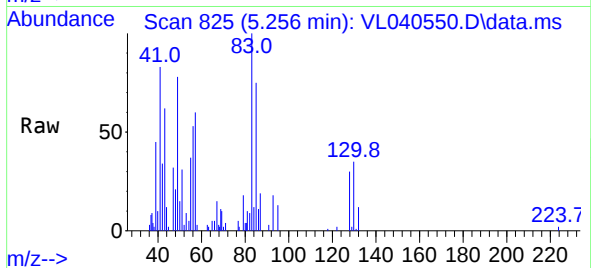
ClientSampleId :

Tgt Ion: 83 Resp: 27688

Ion Ratio Lower Upper

83 100

85 73.8 51.1 76.7



#30

Cyclohexane

Concen: 0.089 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. -0.026 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

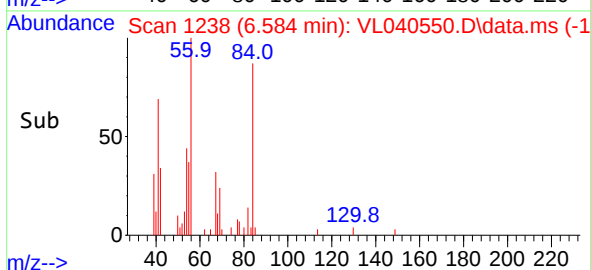
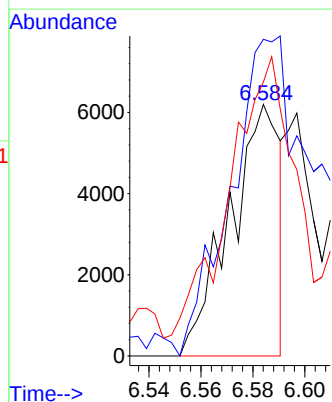
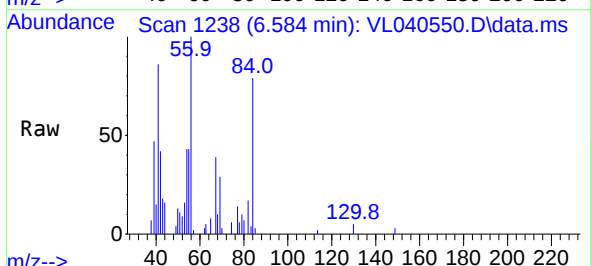
Tgt Ion: 84 Resp: 8229

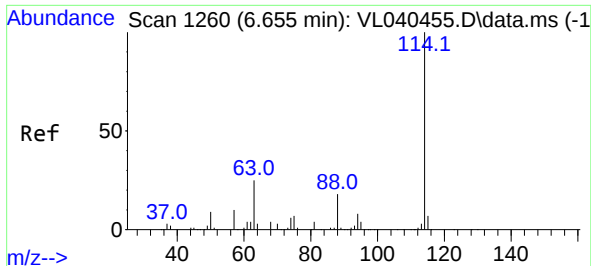
Ion Ratio Lower Upper

84 100

56 177.2 108.7 163.1#

41 156.8 64.5 96.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

Instrument :

MSVOA_L

ClientSampleId :

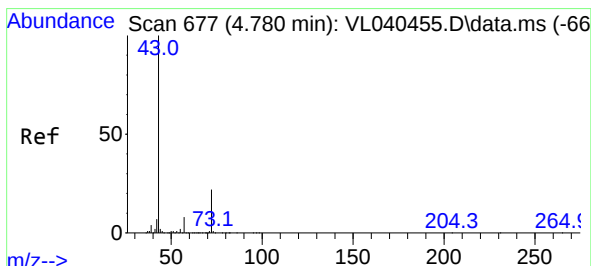
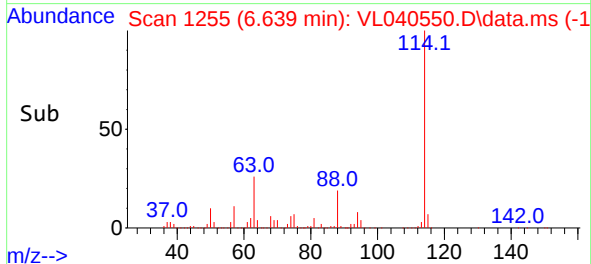
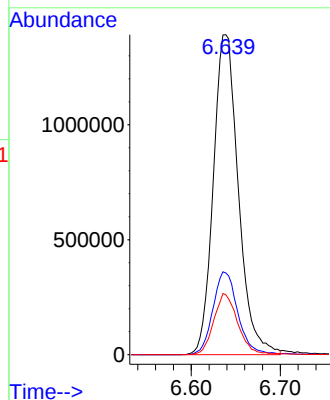
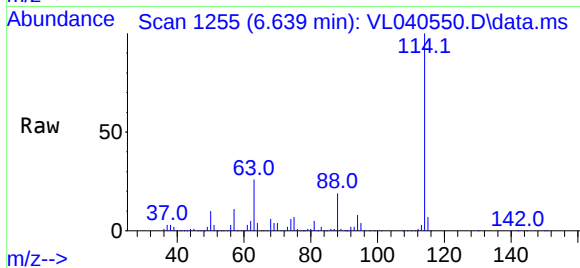
Tgt Ion:114 Resp: 2723031

Ion Ratio Lower Upper

114 100

63 26.1 19.6 29.4

88 18.5 14.2 21.2



#34

2-Butanone

Concen: 2.386 ppbv

RT: 4.774 min Scan# 675

Delta R.T. -0.019 min

Lab File: VL040550.D

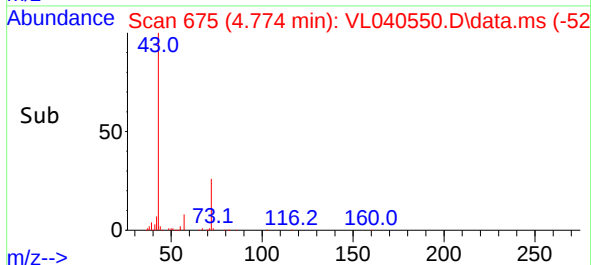
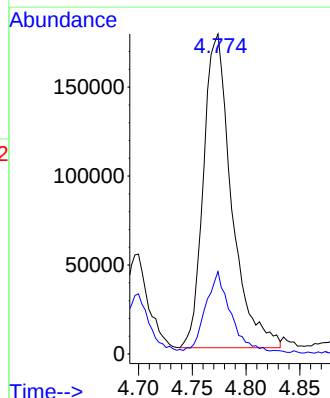
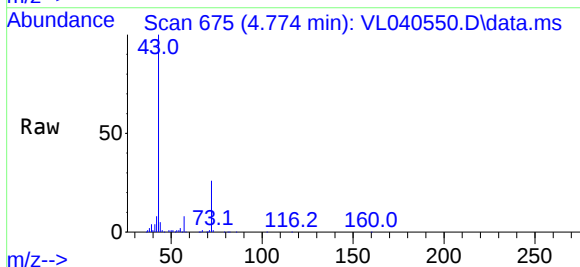
Acq: 26 Jul 2023 21:15

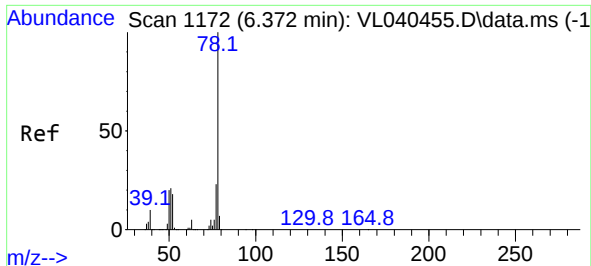
Tgt Ion: 43 Resp: 321025

Ion Ratio Lower Upper

43 100

72 24.5 19.1 28.7

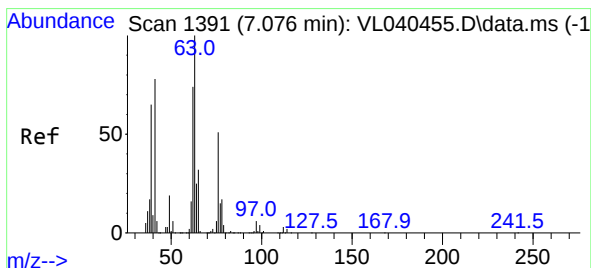
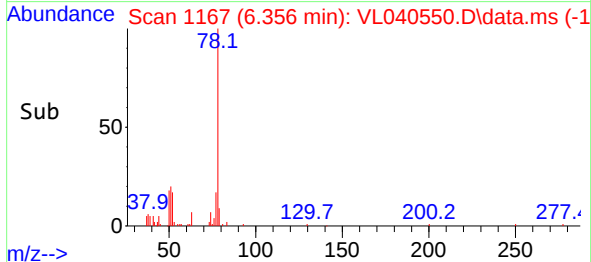
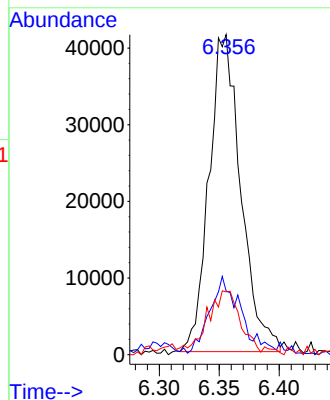
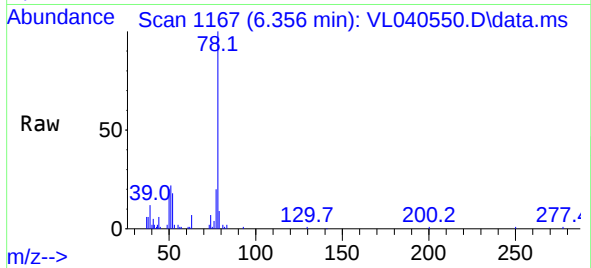




#36
Benzene
Concen: 0.348 ppbv
RT: 6.356 min Scan# 1172
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

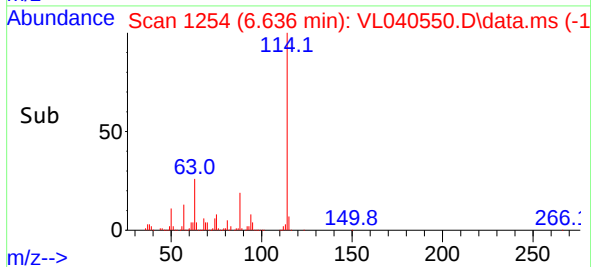
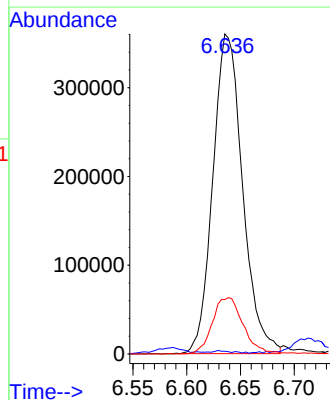
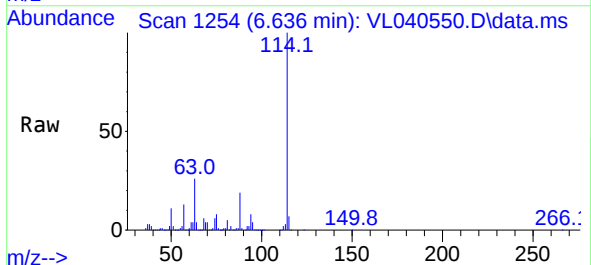
Instrument :
MSVOA_L
ClientSampleId :

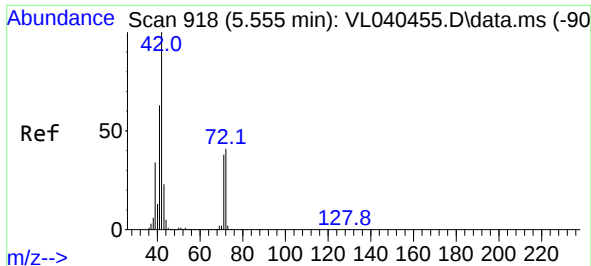
Tgt Ion: 78 Resp: 76352
Ion Ratio Lower Upper
78 100
77 19.1 17.4 26.0
50 19.3 14.4 21.6



#39
1,2-Dichloropropane
Concen: 8.210 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.447 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 63 Resp: 692449
Ion Ratio Lower Upper
63 100
41 0.0 54.3 81.5#
62 17.0 55.6 83.4#





#41

Tetrahydrofuran

Concen: 6.424 ppbv

RT: 5.198 min Scan# 80

Delta R.T. -0.367 min

Lab File: VL040550.D

Acq: 26 Jul 2023 21:15

Instrument :

MSVOA_L

ClientSampleId :

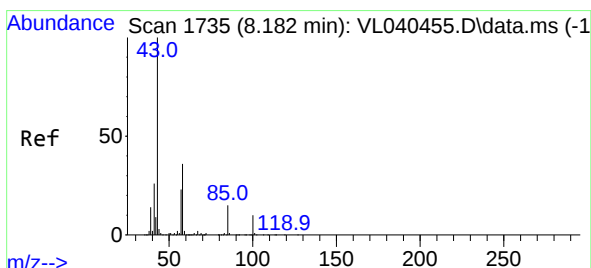
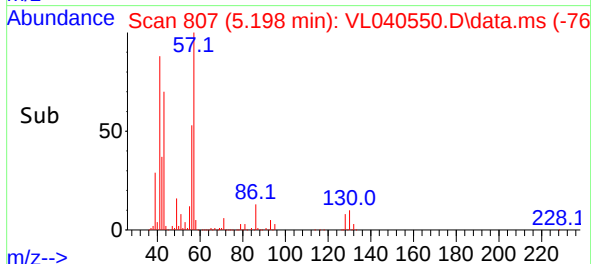
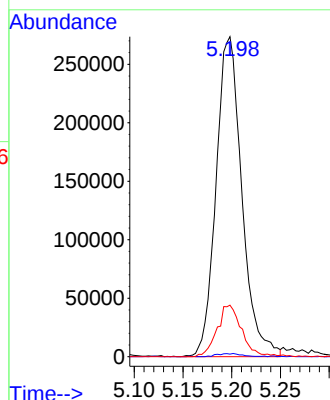
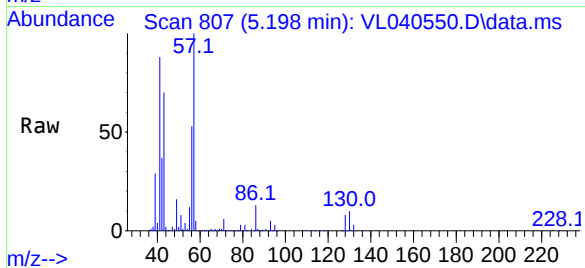
Tgt Ion: 42 Resp: 504427

Ion Ratio Lower Upper

42 100

72 1.0 33.8 50.8#

71 15.6 33.0 49.6#



#50

4-Methyl-2-Pentanone

Concen: 0.050 ppbv

RT: 8.176 min Scan# 1733

Delta R.T. -0.016 min

Lab File: VL040550.D

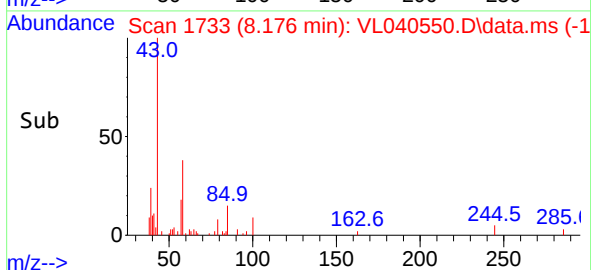
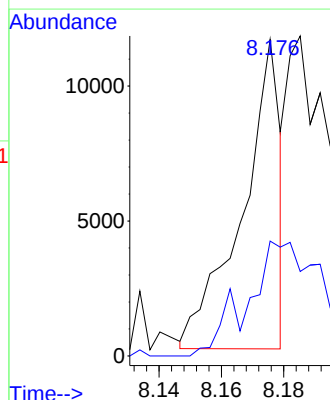
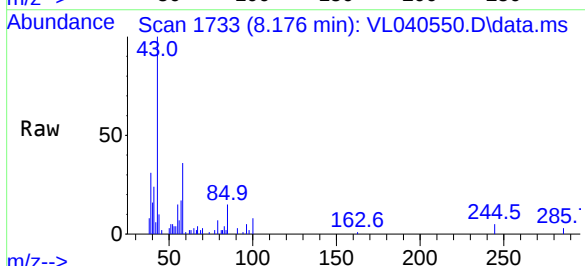
Acq: 26 Jul 2023 21:15

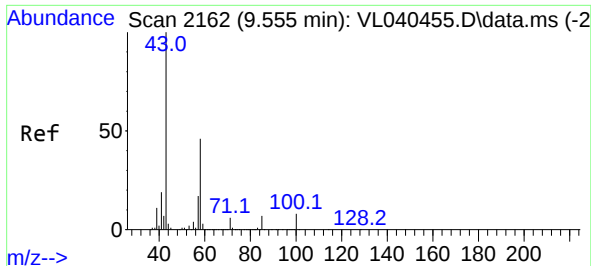
Tgt Ion: 43 Resp: 9732

Ion Ratio Lower Upper

43 100

58 91.6 30.2 45.2#

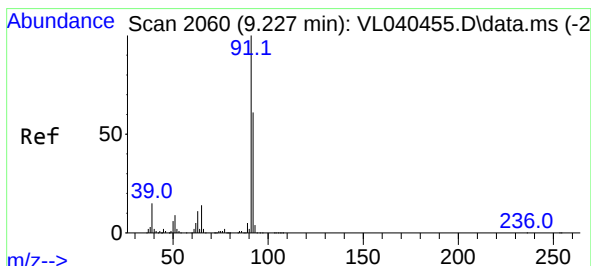
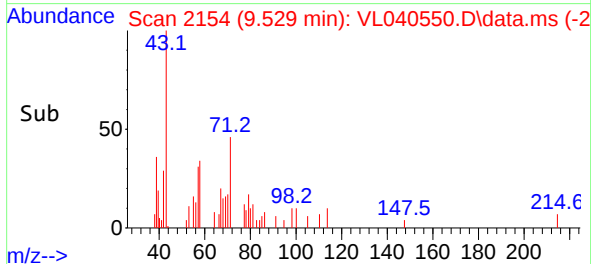
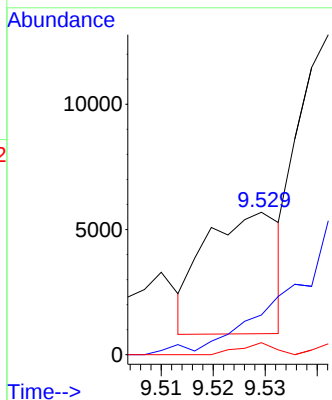
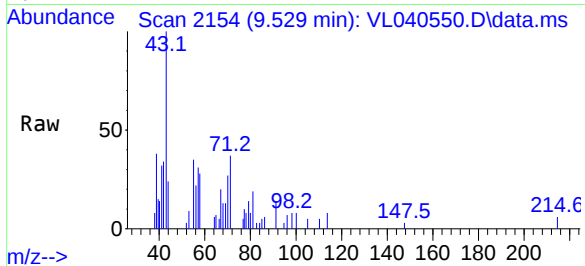




#51
2-Hexanone
Concen: 0.035 ppbv
RT: 9.529 min Scan# 2162
Delta R.T. -0.032 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

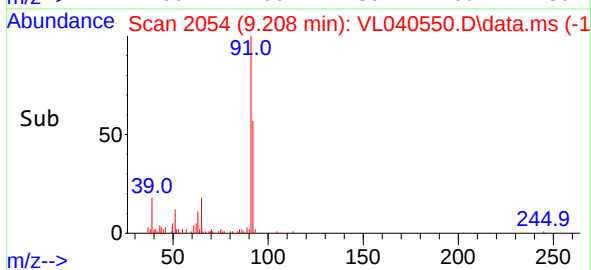
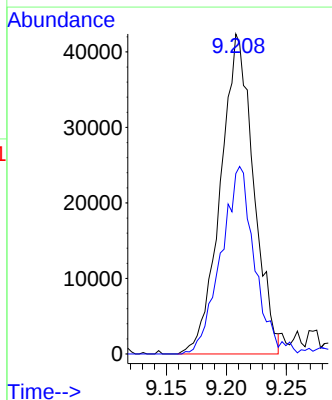
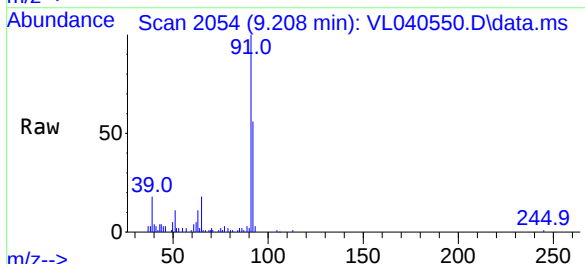
Instrument :
MSVOA_L
ClientSampleId :

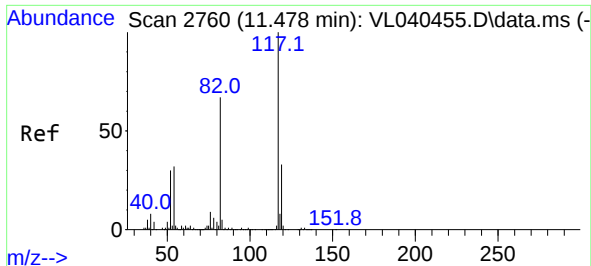
Tgt Ion: 43 Resp: 4844
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 7.0 0.3 0.5#



#53
Toluene
Concen: 0.342 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.023 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 91 Resp: 81312
Ion Ratio Lower Upper
91 100
92 59.5 49.1 73.7

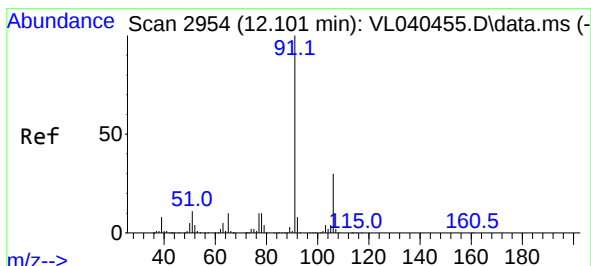
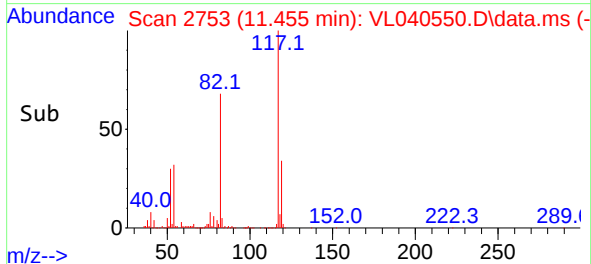
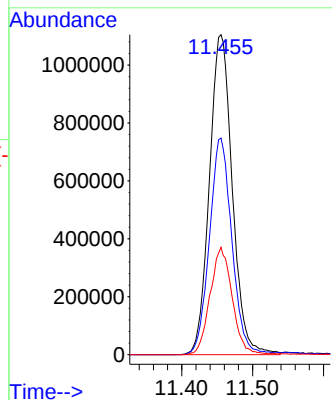
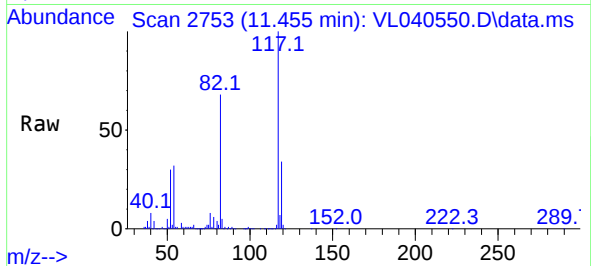




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

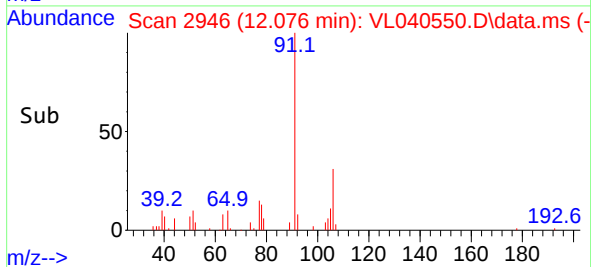
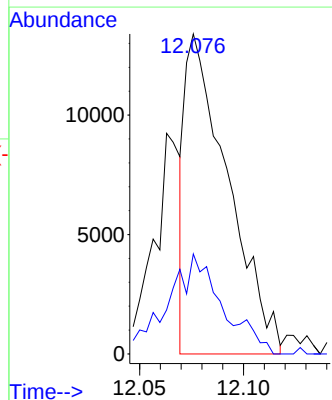
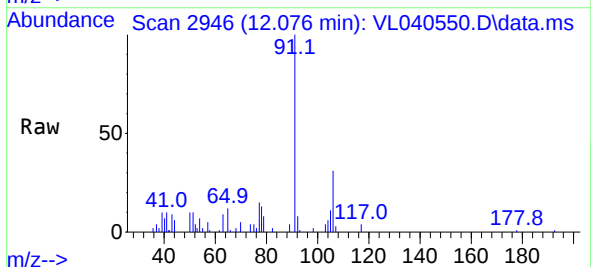
Instrument :
MSVOA_L
ClientSampleId :

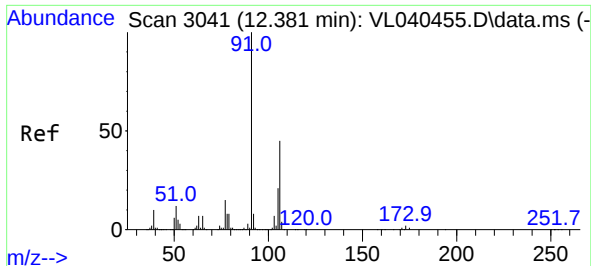
Tgt Ion:117 Resp: 2480480
Ion Ratio Lower Upper
117 100
82 66.6 50.2 75.4
119 32.6 26.9 40.3



#58
Ethyl Benzene
Concen: 0.061 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 91 Resp: 19086
Ion Ratio Lower Upper
91 100
106 32.1 25.4 38.0

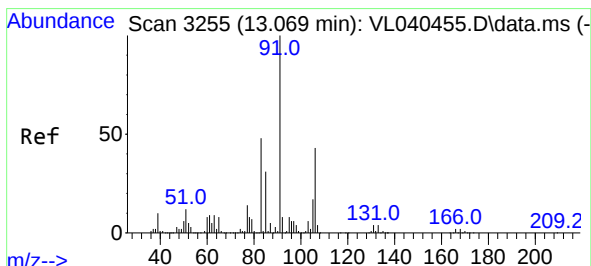
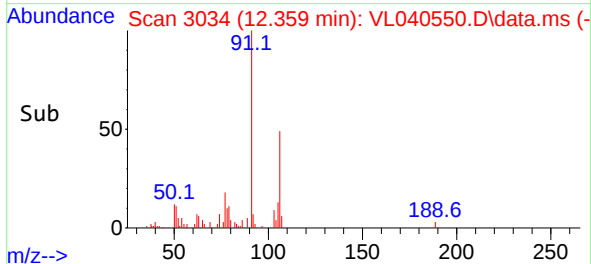
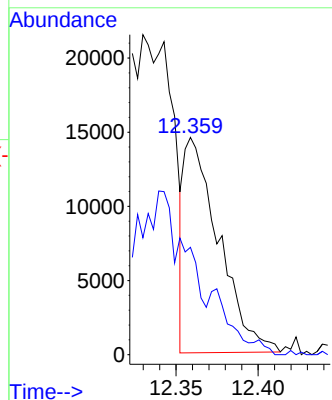
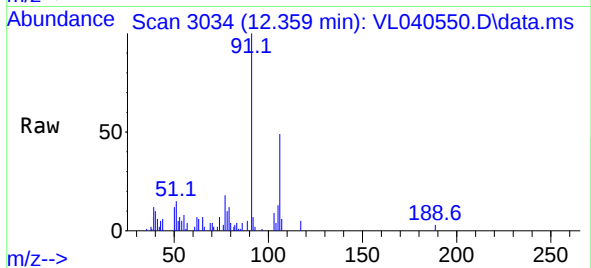




#59
m/p-Xylene
Concen: 0.077 ppbv
RT: 12.359 min Scan# 3041
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

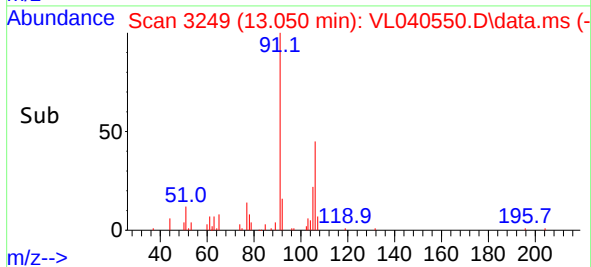
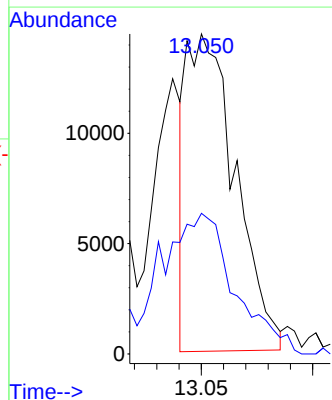
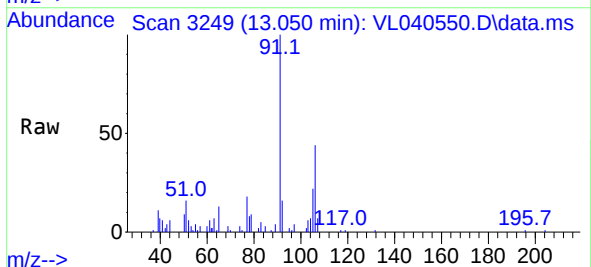
Instrument :
MSVOA_L
ClientSampleId :

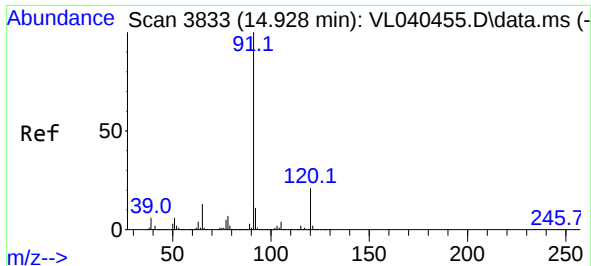
Tgt Ion: 91 Resp: 21448
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#



#60
o-Xylene
Concen: 0.083 ppbv
RT: 13.050 min Scan# 3249
Delta R.T. -0.019 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

Tgt Ion: 91 Resp: 21985
Ion Ratio Lower Upper
91 100
106 70.2 22.7 68.0#

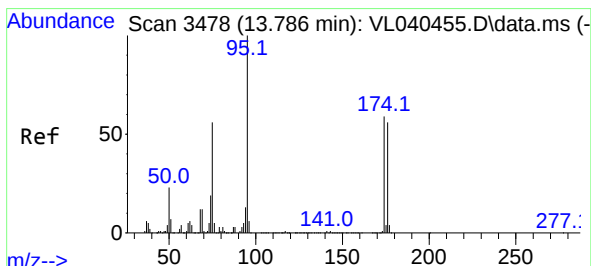
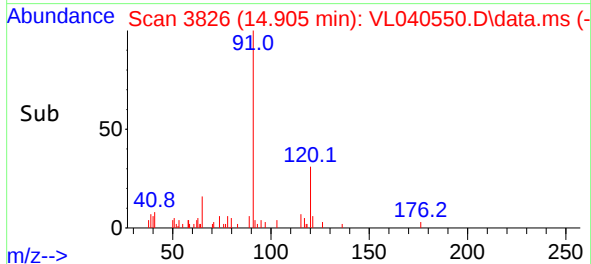
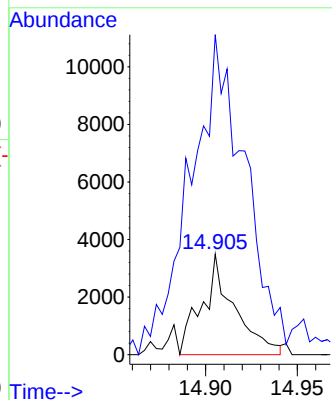
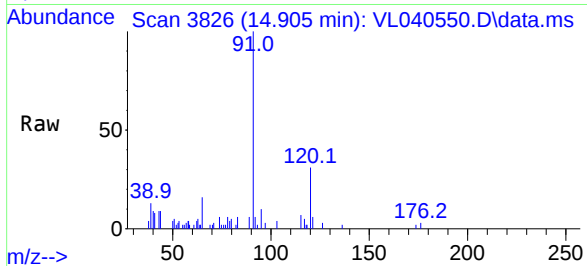




#64
n-propylbenzene
Concen: 0.042 ppbv
RT: 14.905 min Scan# 3826
Delta R.T. -0.026 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

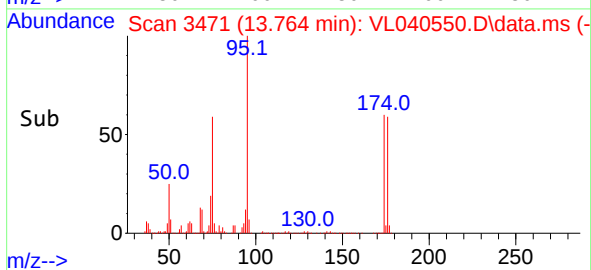
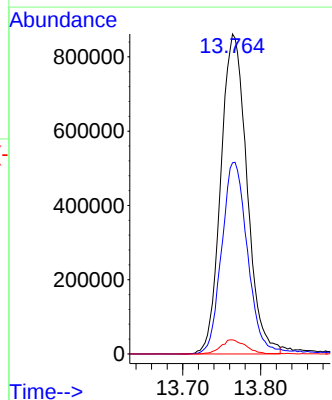
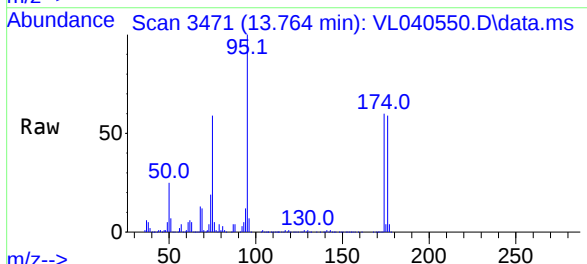
Instrument :
MSVOA_L
ClientSampleId :

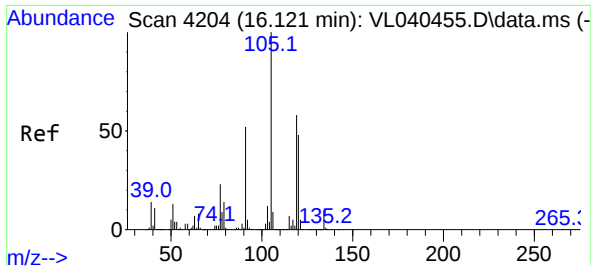
Tgt Ion:120 Resp: 4302
Ion Ratio Lower Upper
120 100
91 562.6 374.3 561.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.220 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.019 min
Lab File: VL040550.D
Acq: 26 Jul 2023 21:15

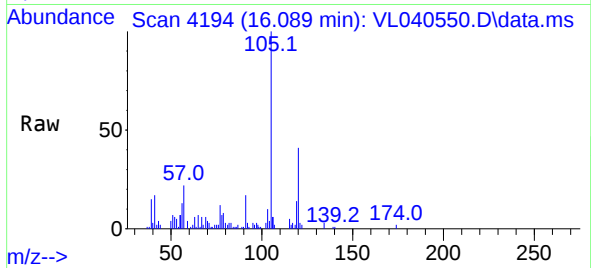
Tgt Ion: 95 Resp: 2006280
Ion Ratio Lower Upper
95 100
174 60.3 50.6 75.8
175 4.4 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.098 ppbv
 RT: 16.089 min Scan# 41
 Delta R.T. -0.029 min
 Lab File: VL040550.D
 Acq: 26 Jul 2023 21:15

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	31160
Ion	Ratio	Lower	Upper
105	100		
120	39.7	40.3	60.5#
91	11.2	46.8	70.2#
77	6.7	18.6	28.0#

