

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040652.D
 Acq On : 5 Sep 2023 18:14
 Operator : SY/MD
 Sample : 04261-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:07:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

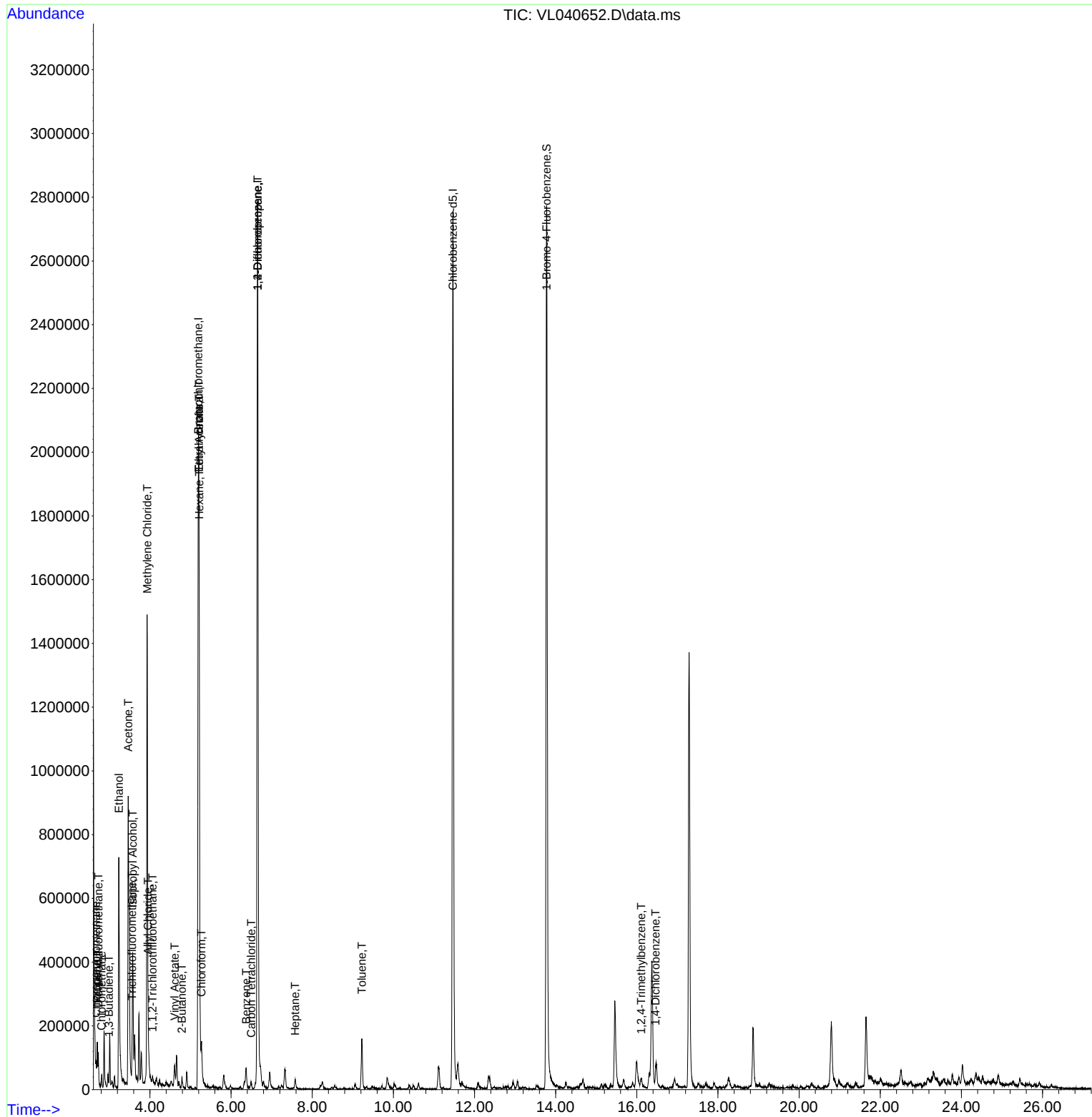
Internal Standards						
1) Bromochloromethane	5.192	49	755347	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	1986688	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1659956	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1289483	9.768	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	63964	0.393	ppbv	98
3) Chlorodifluoromethane	2.674	51	56306	0.454	ppbv	94
4) Chloromethane	2.809	50	29400	0.608	ppbv #	82
9) Propene	2.697	41	16250	0.423	ppbv #	45
10) Heptane	7.577	43	4166	0.047	ppbv #	9
11) Trichlorofluoromethane	3.558	101	34047	0.259	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.066	101	7947	0.082	ppbv	89
13) Ethanol	3.234	45	759870	70.852	ppbv	98
15) Acetone	3.465	43	1014243	10.978	ppbv	97
16) 1,3-Butadiene	2.986	39	2324	0.051	ppbv #	1
19) Isopropyl Alcohol	3.574	45	389471	6.648	ppbv #	96
20) Methylene Chloride	3.935	84	527865	11.692	ppbv	94
21) Allyl Chloride	3.954	41	2964	0.049	ppbv #	1
23) Vinyl Acetate	4.610	43	26613	0.253	ppbv #	1
25) Ethyl Acetate	5.211	43	353188	2.036	ppbv #	77
26) Hexane	5.214	57	502413	5.985	ppbv #	40
29) Chloroform	5.272	83	57696	0.434	ppbv	90
34) 2-Butanone	4.787	43	31705	0.316	ppbv	95
35) Carbon Tetrachloride	6.497	117	10791	0.087	ppbv #	67
36) Benzene	6.372	78	23618	0.149	ppbv	98
39) 1,2-Dichloropropane	6.651	63	506492	8.423	ppbv #	26
41) Tetrahydrofuran	5.211	42	197662	3.491	ppbv #	46
53) Toluene	9.224	91	96390	0.574	ppbv	93
74) 1,2,4-Trimethylbenzene	16.104	105	7092	0.035	ppbv #	74
76) 1,4-Dichlorobenzene	16.461	146	4565	0.040	ppbv #	23

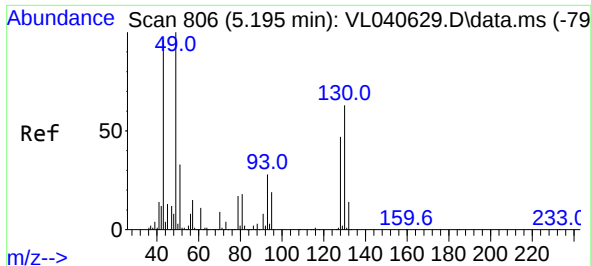
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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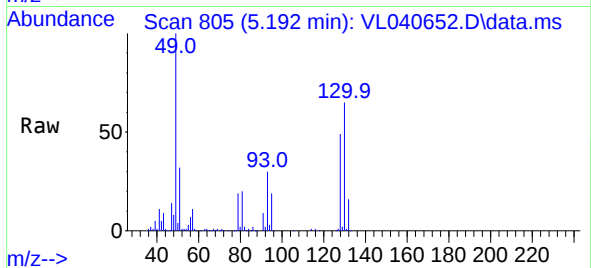
Quant Time: Sep 06 02:07:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration



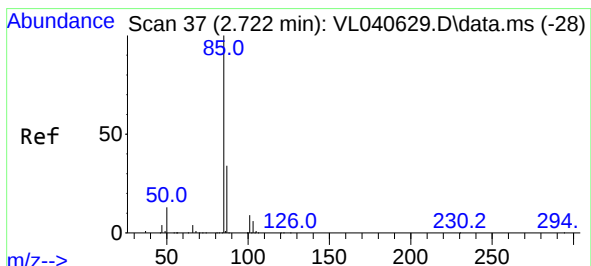
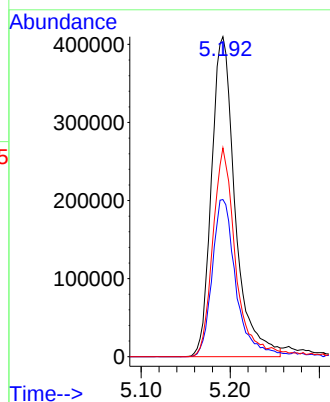
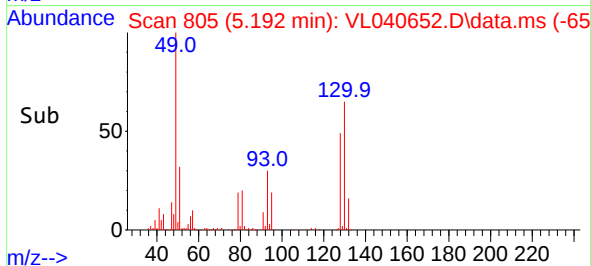


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

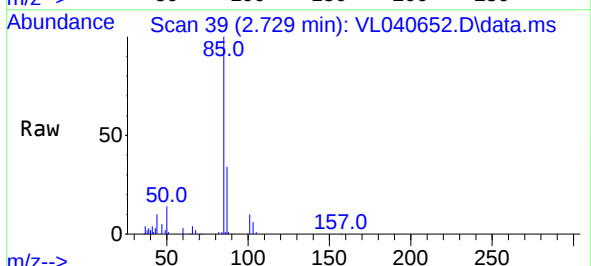
Instrument :
MSVOA_L
ClientSampleId :



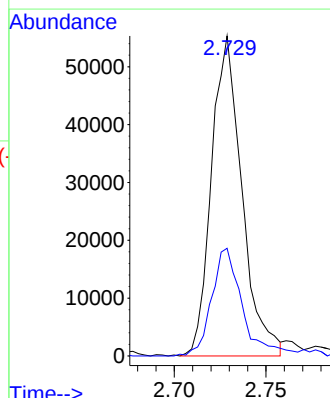
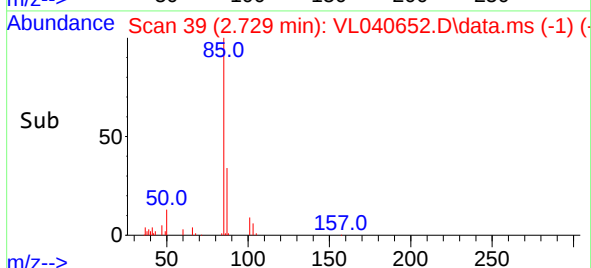
Tgt Ion: 49 Resp: 755347
Ion Ratio Lower Upper
49 100
128 50.4 24.9 74.7
130 63.8 32.2 96.6

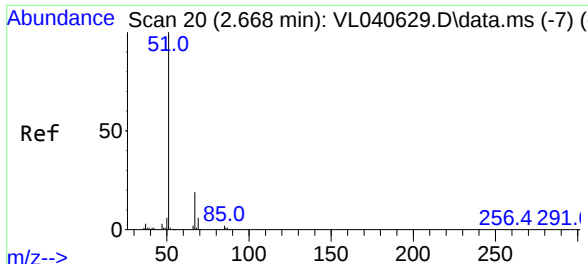


#2
Dichlorodifluoromethane
Concen: 0.393 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.006 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14



Tgt Ion: 85 Resp: 63964
Ion Ratio Lower Upper
85 100
87 33.1 27.5 41.3

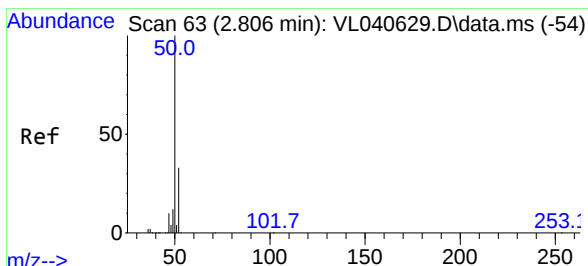
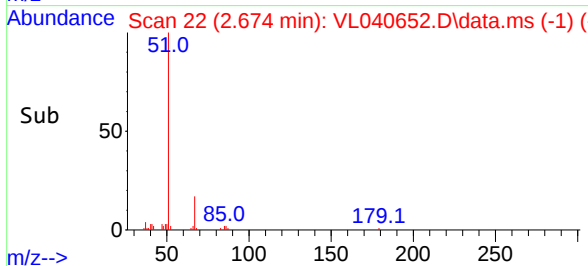
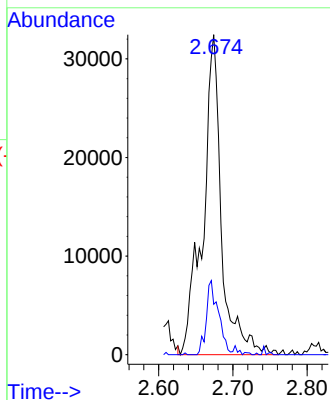
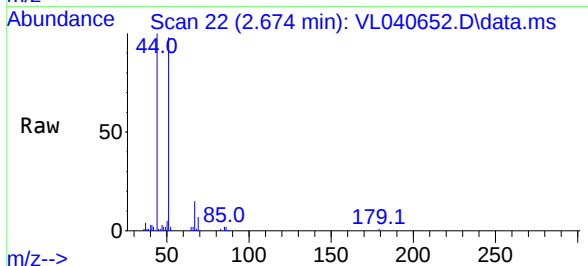




#3
Chlorodifluoromethane
Concen: 0.454 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

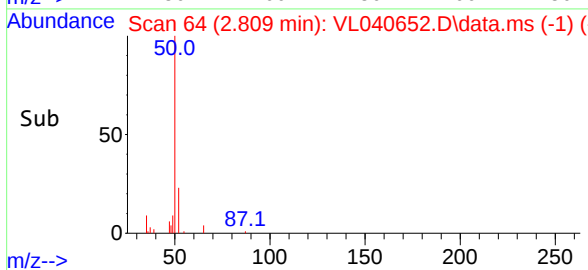
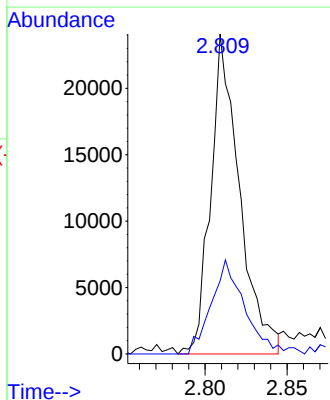
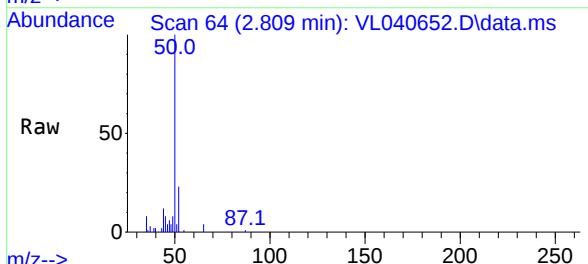
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 56306
Ion Ratio Lower Upper
51 100
67 16.1 15.0 22.6

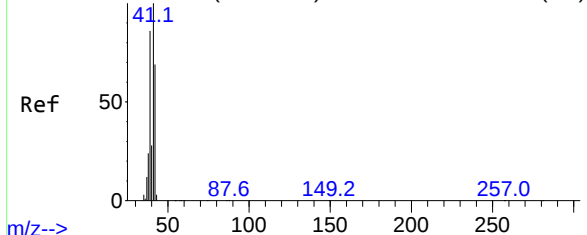


#4
Chloromethane
Concen: 0.608 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.003 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Tgt Ion: 50 Resp: 29400
Ion Ratio Lower Upper
50 100
52 22.8 26.2 39.2#

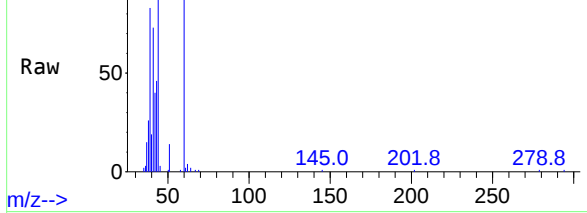


Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



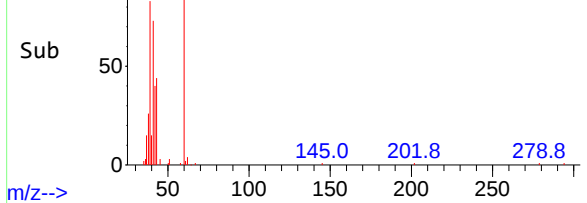
m/z-->

Abundance Scan 29 (2.697 min): VL040652.D\data.ms



m/z-->

Abundance Scan 29 (2.697 min): VL040652.D\data.ms (-1)

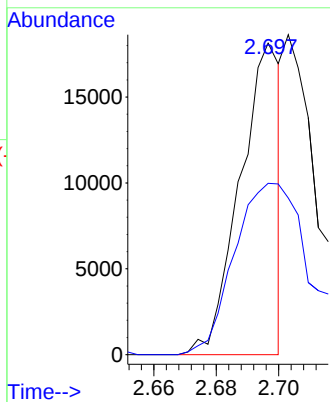


m/z-->

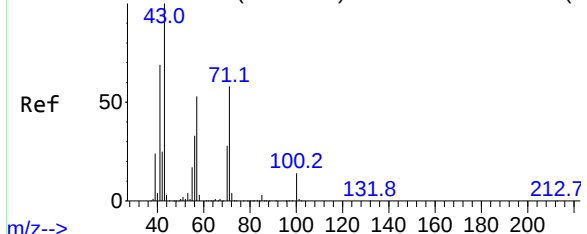
#9
Propene
Concen: 0.423 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.010 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 16250
Ion Ratio Lower Upper
41 100
42 115.8 56.5 84.7#

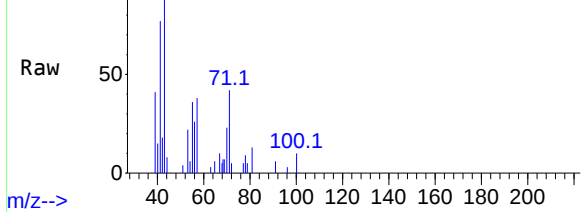


Abundance Scan 1551 (7.590 min): VL040629.D\data.ms (-1)



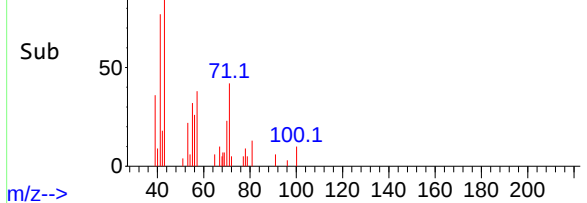
m/z-->

Abundance Scan 1547 (7.577 min): VL040652.D\data.ms



m/z-->

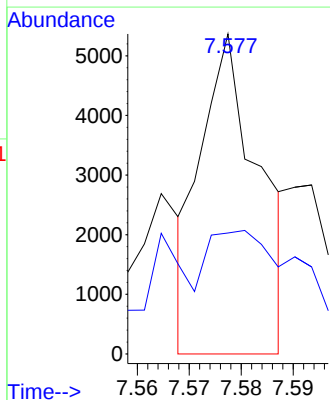
Abundance Scan 1547 (7.577 min): VL040652.D\data.ms (-1)

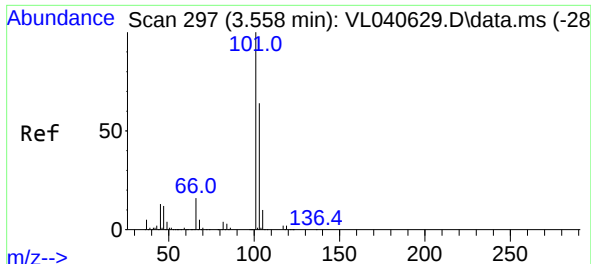


m/z-->

#10
Heptane
Concen: 0.047 ppbv
RT: 7.577 min Scan# 1547
Delta R.T. -0.013 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

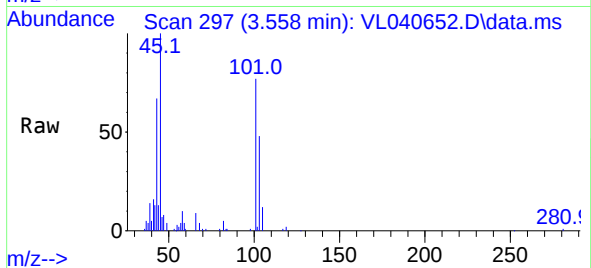
Tgt Ion: 43 Resp: 4166
Ion Ratio Lower Upper
43 100
57 118.0 42.5 63.7#



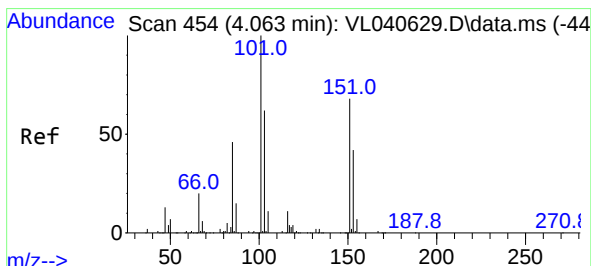
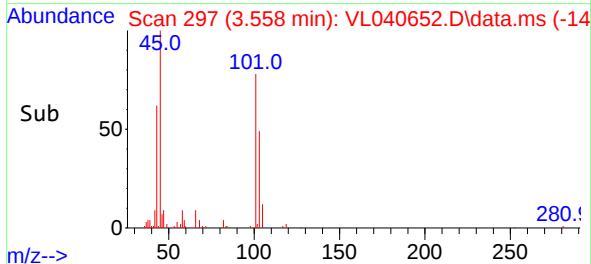
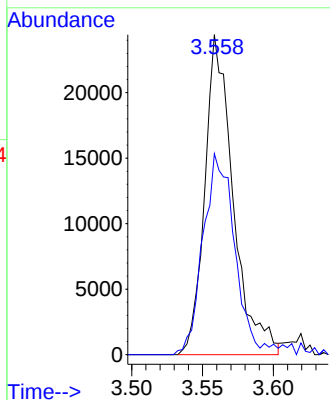


#11
 Trichlorofluoromethane
 Concen: 0.259 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. -0.000 min
 Lab File: VL040652.D
 Acq: 5 Sep 2023 18:14

Instrument :
 MSVOA_L
 ClientSampleId :

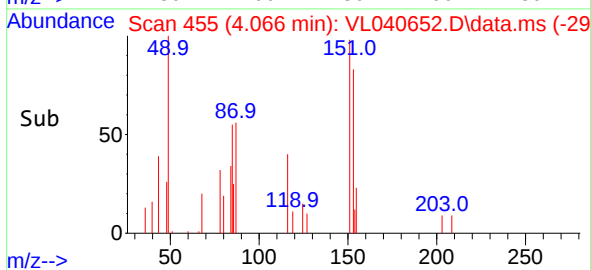
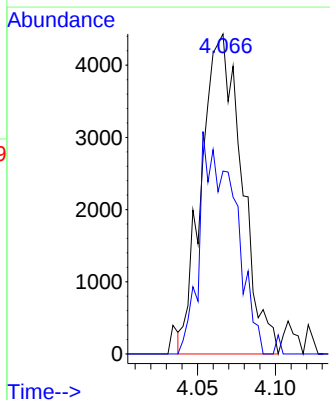
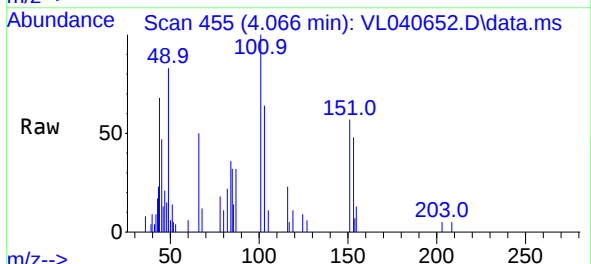


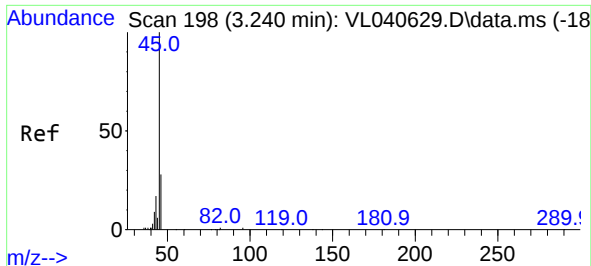
Tgt Ion:101 Resp: 34047
 Ion Ratio Lower Upper
 101 100
 103 61.5 51.1 76.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.082 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. 0.003 min
 Lab File: VL040652.D
 Acq: 5 Sep 2023 18:14

Tgt Ion:101 Resp: 7947
 Ion Ratio Lower Upper
 101 100
 151 61.2 56.2 84.2

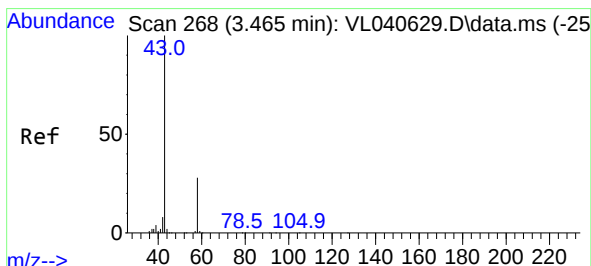
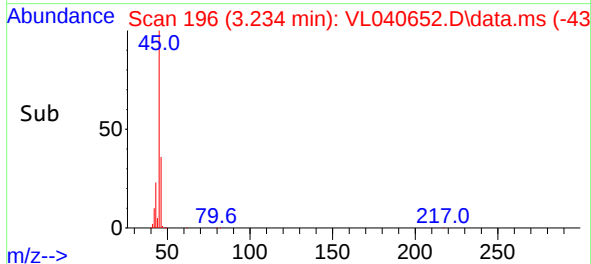
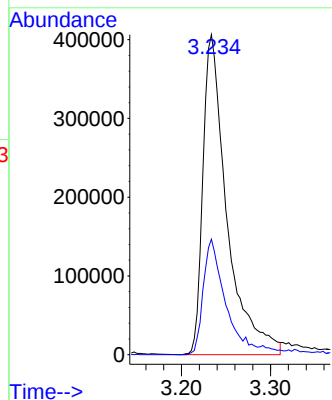
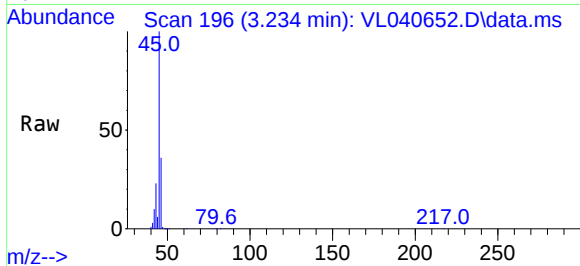




#13
Ethanol
Concen: 70.852 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.007 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

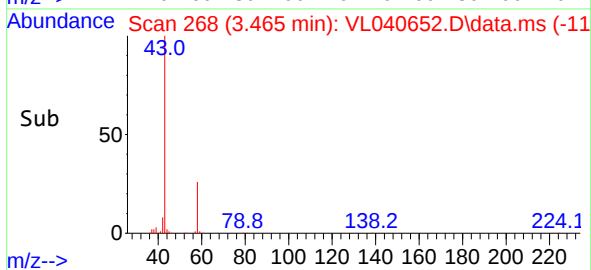
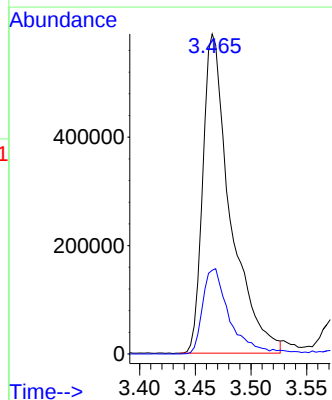
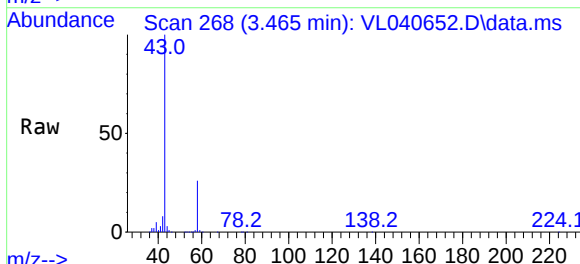
Instrument :
MSVOA_L
ClientSampleId :

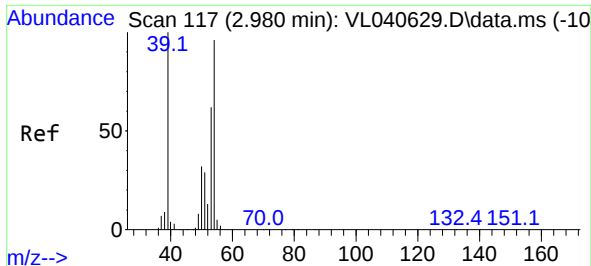
Tgt Ion: 45 Resp: 759870
Ion Ratio Lower Upper
45 100
46 36.6 14.2 56.6



#15
Acetone
Concen: 10.978 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.000 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Tgt Ion: 43 Resp: 1014243
Ion Ratio Lower Upper
43 100
58 26.5 22.4 33.6





#16

1,3-Butadiene

Concen: 0.051 ppbv

RT: 2.986 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040652.D

Acq: 5 Sep 2023 18:14

Instrument :

MSVOA_L

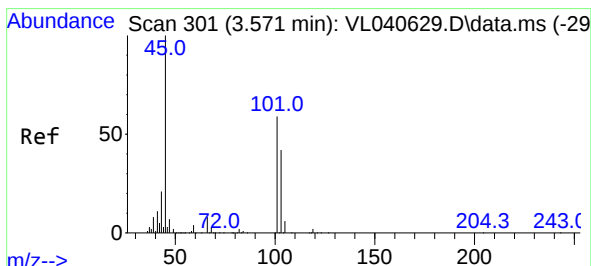
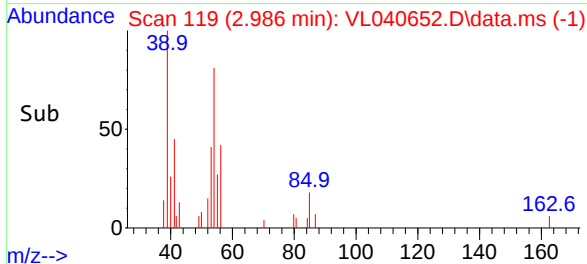
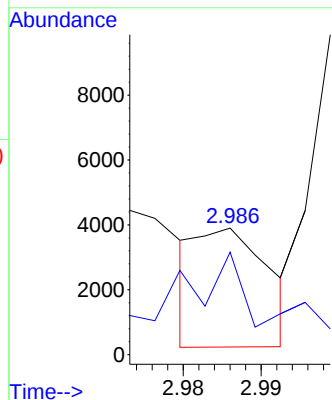
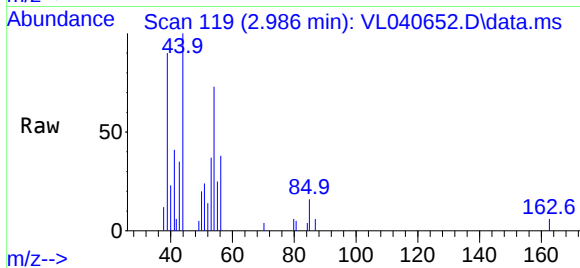
ClientSampleId :

Tgt Ion: 39 Resp: 2324

Ion Ratio Lower Upper

39 100

54 189.6 66.6 99.8#



#19

Isopropyl Alcohol

Concen: 6.648 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.003 min

Lab File: VL040652.D

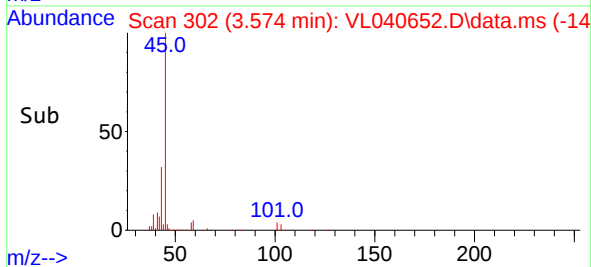
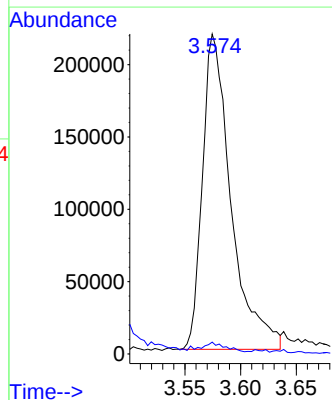
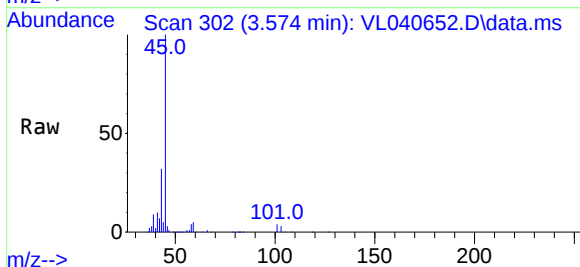
Acq: 5 Sep 2023 18:14

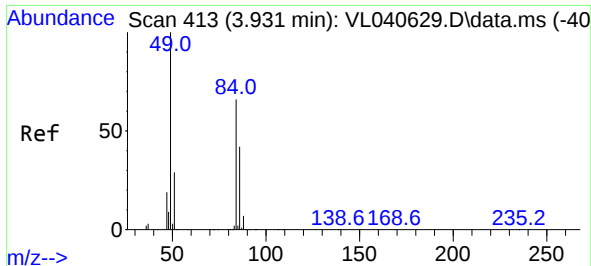
Tgt Ion: 45 Resp: 389471

Ion Ratio Lower Upper

45 100

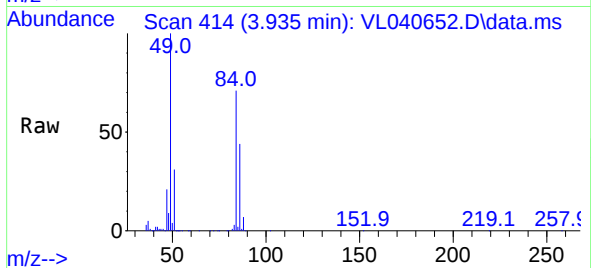
58 3.9 1.9 2.9#





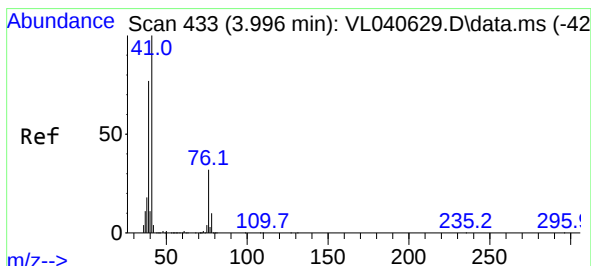
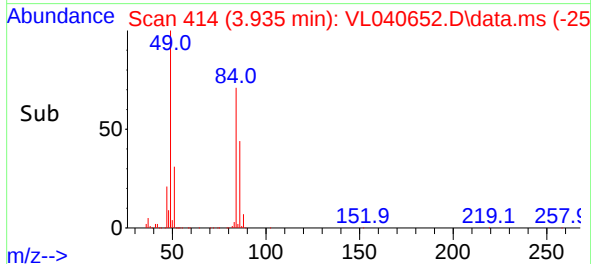
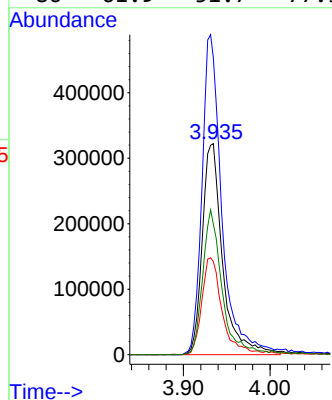
#20
Methylene Chloride
Concen: 11.692 ppbv
RT: 3.935 min Scan# 413
Delta R.T. 0.003 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 527865

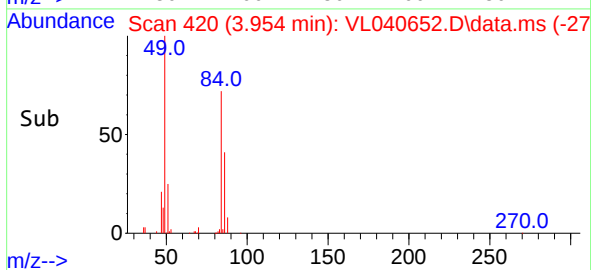
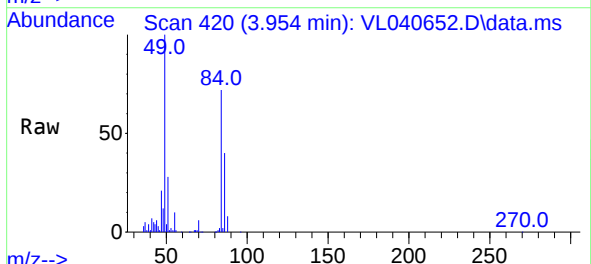
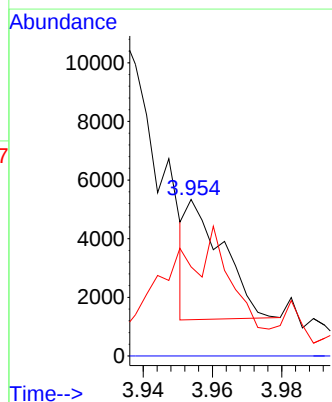
Ion	Ratio	Lower	Upper
84	100		
49	140.8	122.1	183.1
51	43.9	35.4	53.2
86	61.9	51.7	77.5

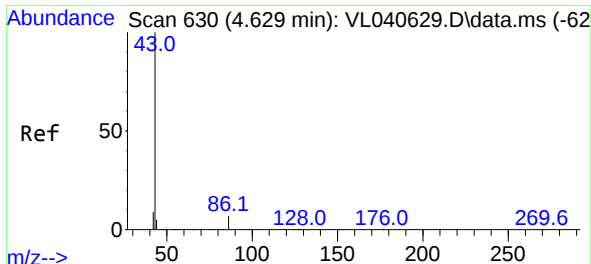


#21
Allyl Chloride
Concen: 0.049 ppbv
RT: 3.954 min Scan# 420
Delta R.T. -0.042 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Tgt Ion: 41 Resp: 2964

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.5	38.3#
39	231.2	61.8	92.6#



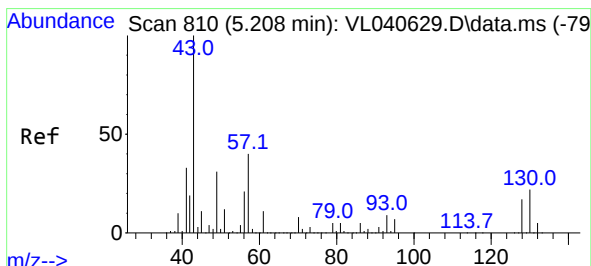
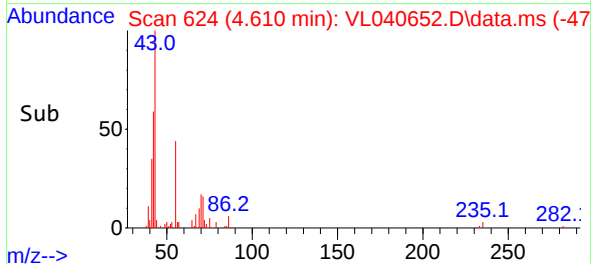
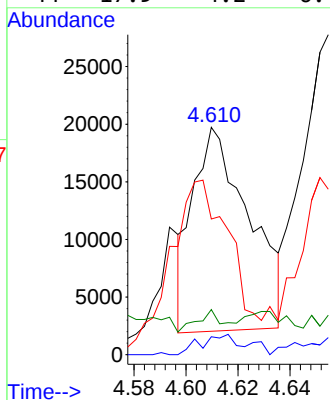
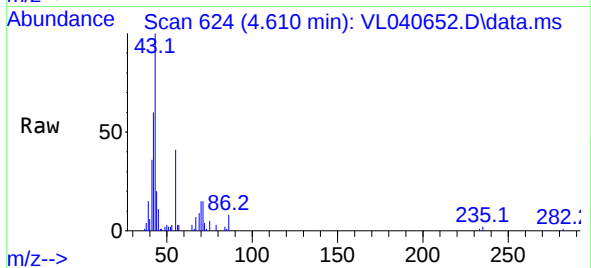


#23
 Vinyl Acetate
 Concen: 0.253 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.019 min
 Lab File: VL040652.D
 Acq: 5 Sep 2023 18:14

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 26613

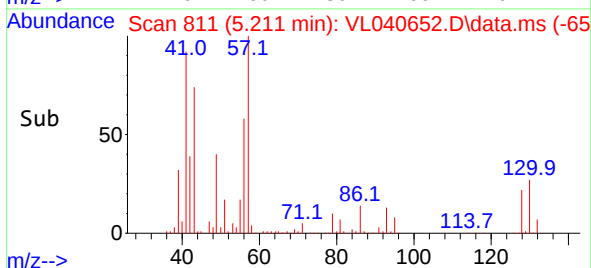
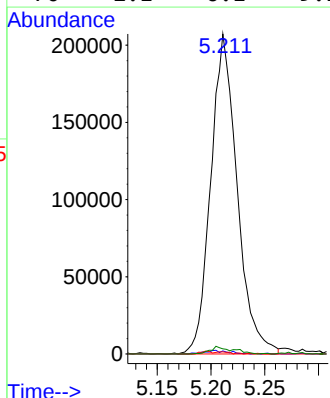
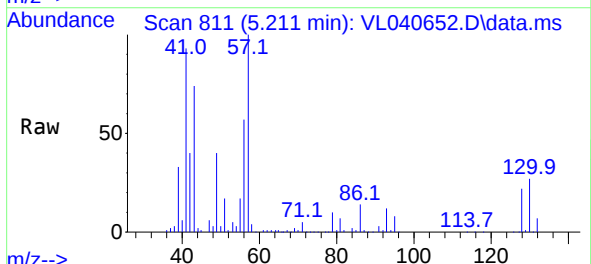
Ion	Ratio	Lower	Upper
43	100		
86	14.3	5.0	7.6#
42	80.4	7.8	11.8#
44	17.9	4.2	6.4#

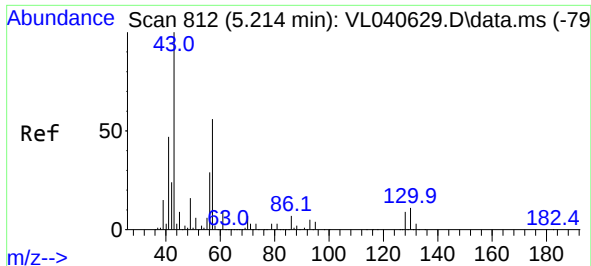


#25
 Ethyl Acetate
 Concen: 2.036 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.003 min
 Lab File: VL040652.D
 Acq: 5 Sep 2023 18:14

Tgt Ion: 43 Resp: 353188

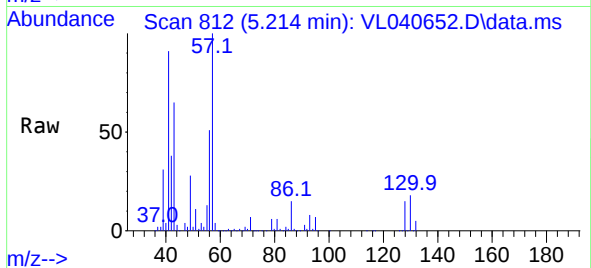
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.2	12.4#
61	0.8	8.3	12.5#
70	2.1	6.1	9.1#



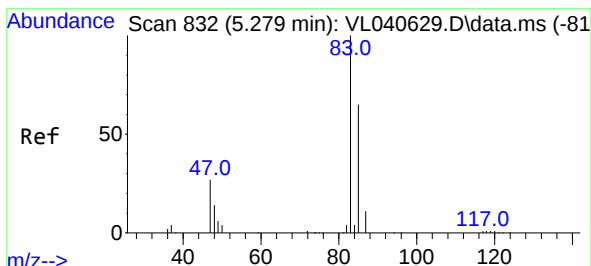
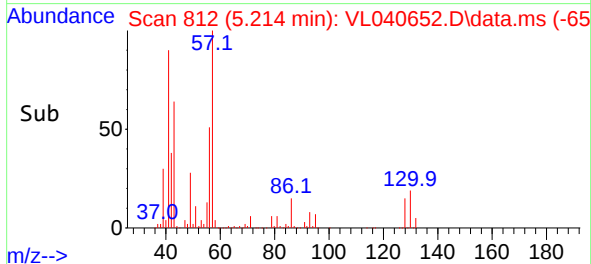
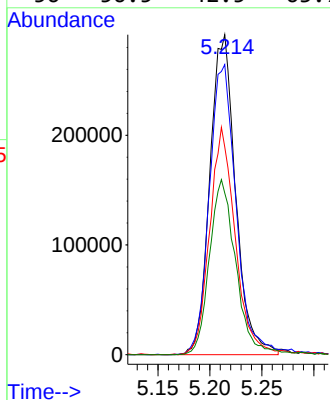


#26
Hexane
Concen: 5.985 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.000 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Instrument :
MSVOA_L
ClientSampleId :

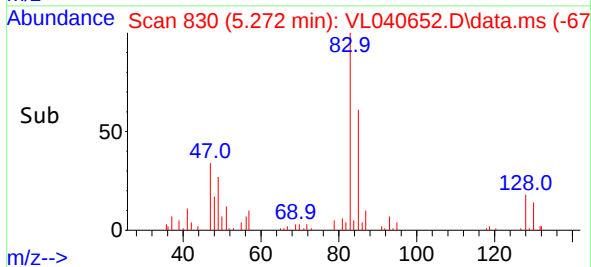
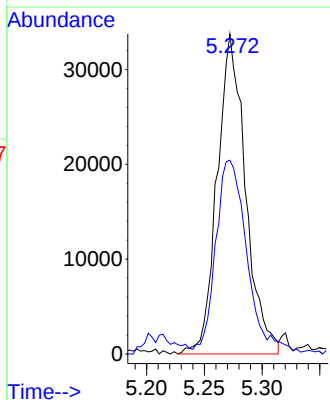
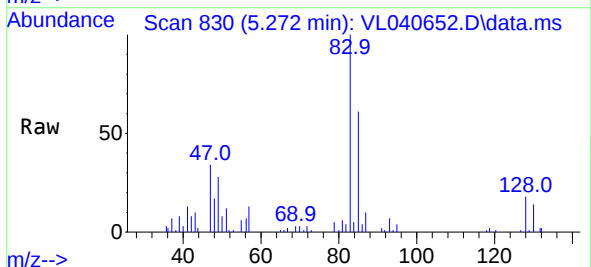


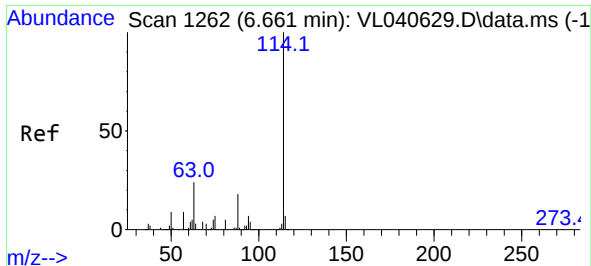
Tgt Ion: 57 Resp: 502413
Ion Ratio Lower Upper
57 100
41 95.3 69.3 103.9
43 72.0 177.9 266.9#
56 56.5 42.5 63.7



#29
Chloroform
Concen: 0.434 ppbv
RT: 5.272 min Scan# 830
Delta R.T. -0.007 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Tgt Ion: 83 Resp: 57696
Ion Ratio Lower Upper
83 100
85 57.6 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040652.D

Acq: 5 Sep 2023 18:14

Instrument :

MSVOA_L

ClientSampleId :

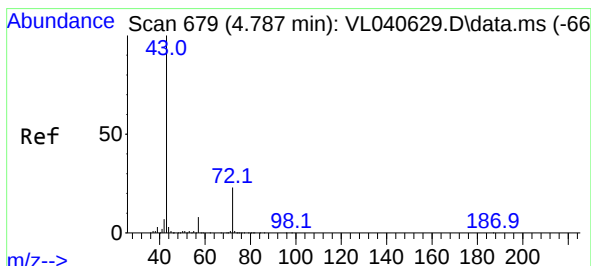
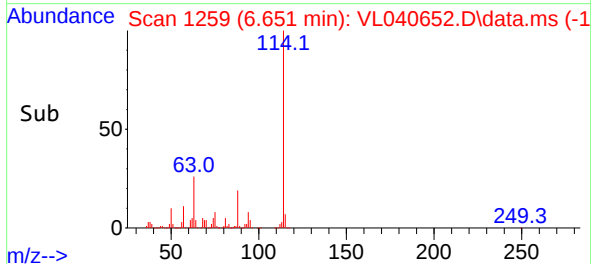
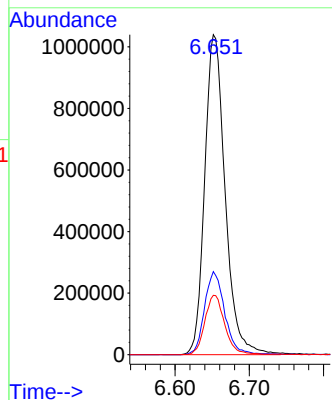
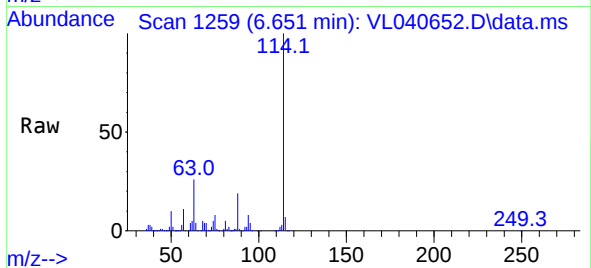
Tgt Ion:114 Resp: 1986688

Ion Ratio Lower Upper

114 100

63 25.9 20.2 30.2

88 18.3 14.1 21.1



#34

2-Butanone

Concen: 0.316 ppbv

RT: 4.787 min Scan# 679

Delta R.T. -0.000 min

Lab File: VL040652.D

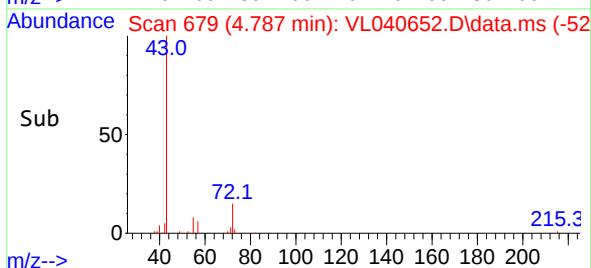
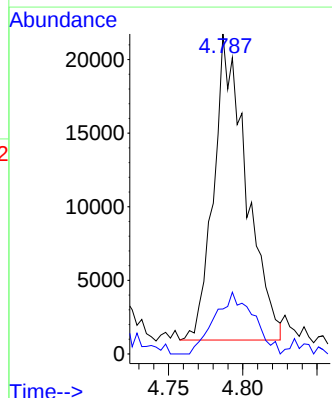
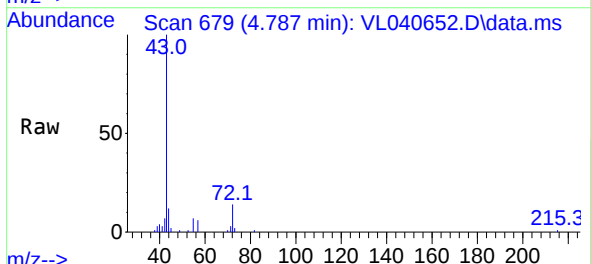
Acq: 5 Sep 2023 18:14

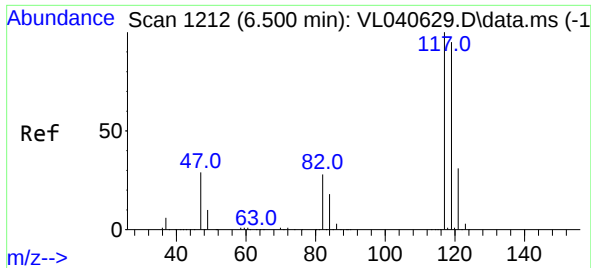
Tgt Ion: 43 Resp: 31705

Ion Ratio Lower Upper

43 100

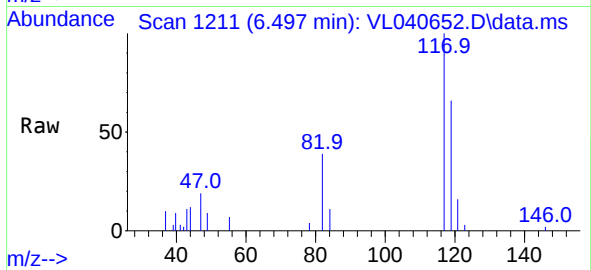
72 26.6 19.2 28.8



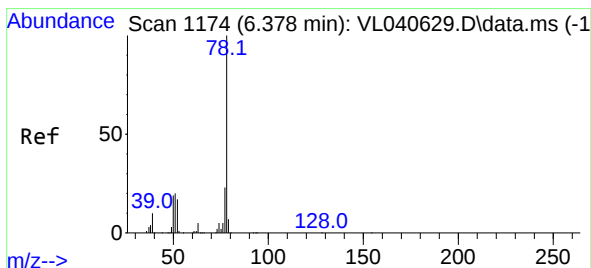
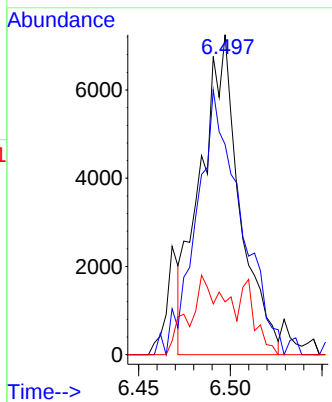
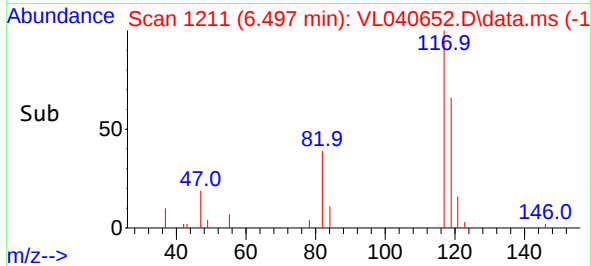


#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 6.497 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

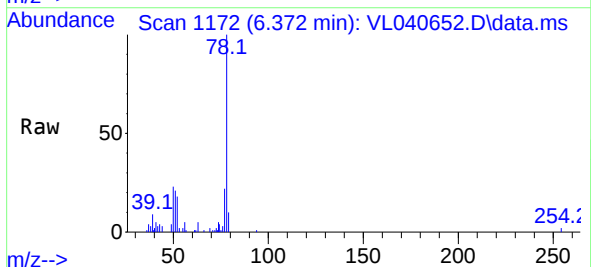
Instrument :
MSVOA_L
ClientSampleId :



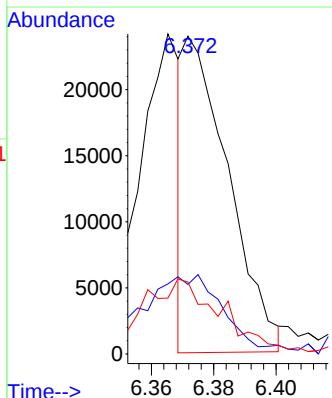
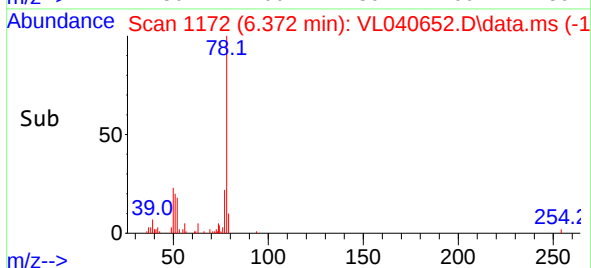
Tgt Ion:117 Resp: 10791
Ion Ratio Lower Upper
117 100
119 60.4 75.6 113.4#
121 17.2 24.9 37.3#

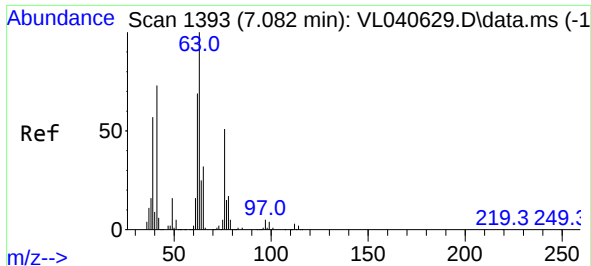


#36
Benzene
Concen: 0.149 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.007 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14



Tgt Ion: 78 Resp: 23618
Ion Ratio Lower Upper
78 100
77 21.0 18.2 27.2
50 19.3 15.0 22.6





#39

1,2-Dichloropropane

Concen: 8.423 ppbv

RT: 6.651 min Scan# 1

Delta R.T. -0.431 min

Lab File: VL040652.D

Acq: 5 Sep 2023 18:14

Instrument :

MSVOA_L

ClientSampleId :

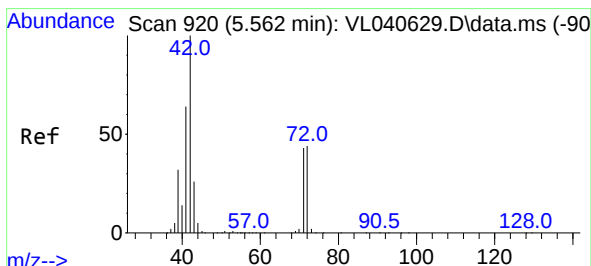
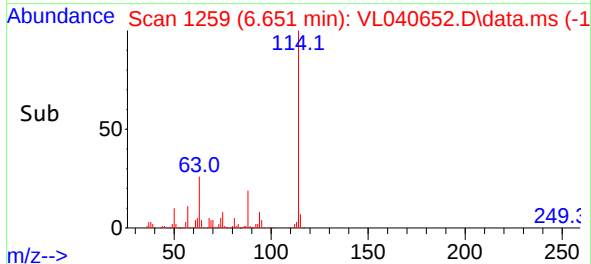
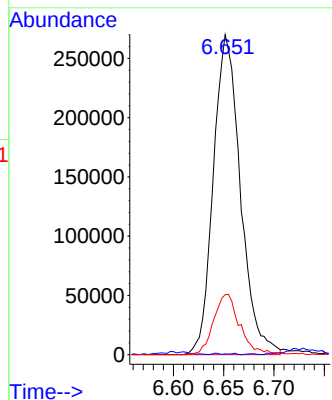
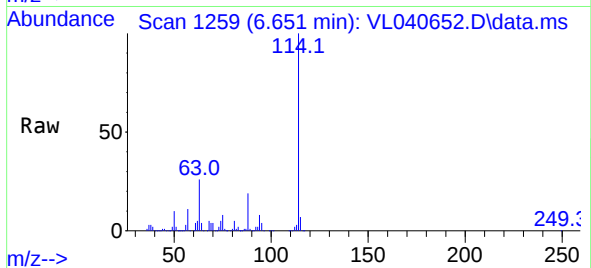
Tgt Ion: 63 Resp: 506492

Ion Ratio Lower Upper

63 100

41 0.0 58.2 87.2#

62 18.8 55.0 82.4#



#41

Tetrahydrofuran

Concen: 3.491 ppbv

RT: 5.211 min Scan# 811

Delta R.T. -0.351 min

Lab File: VL040652.D

Acq: 5 Sep 2023 18:14

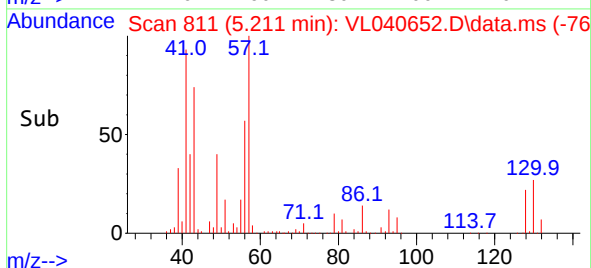
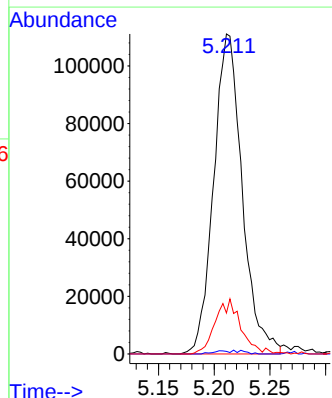
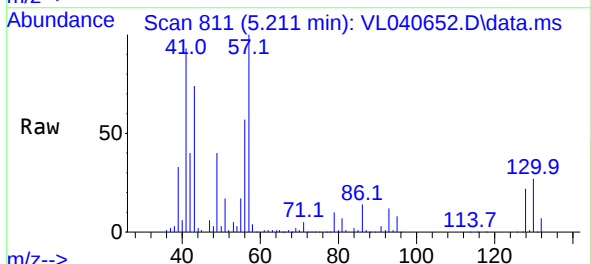
Tgt Ion: 42 Resp: 197662

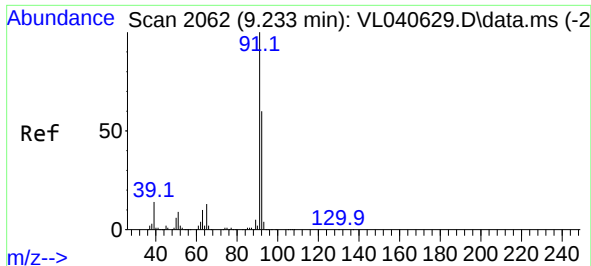
Ion Ratio Lower Upper

42 100

72 1.0 34.2 51.4#

71 15.7 33.4 50.0#

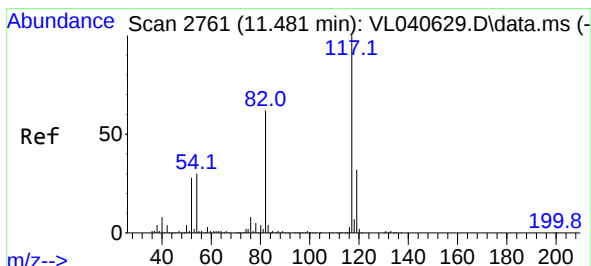
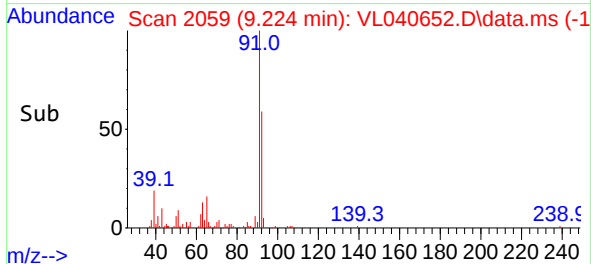
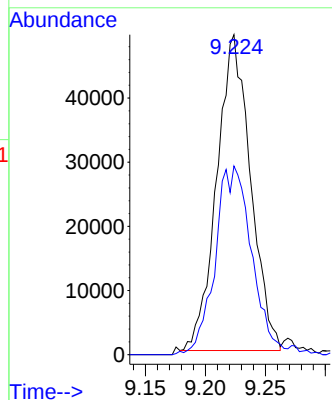
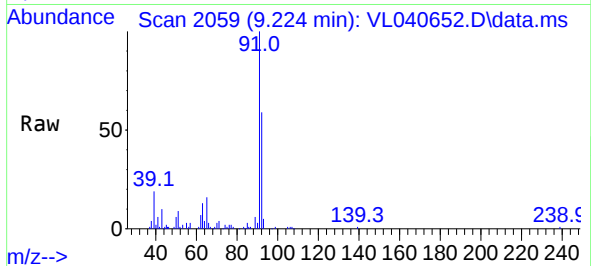




#53
Toluene
Concen: 0.574 ppbv
RT: 9.224 min Scan# 2062
Delta R.T. -0.010 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

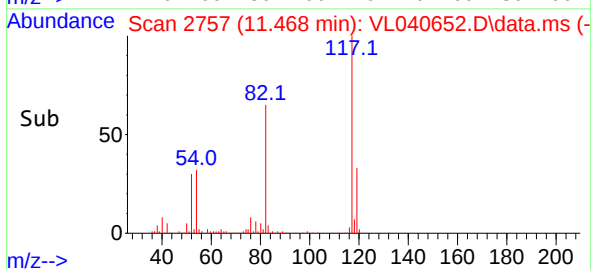
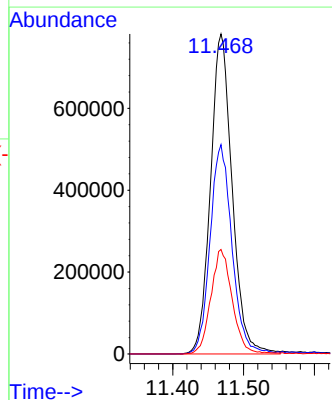
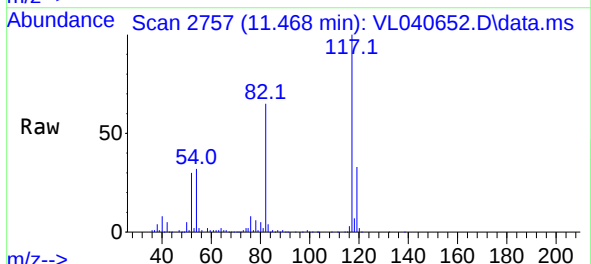
Instrument :
MSVOA_L
ClientSampleId :

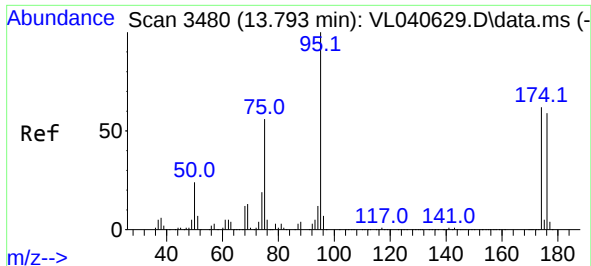
Tgt Ion: 91 Resp: 96390
Ion Ratio Lower Upper
91 100
92 65.5 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.013 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

Tgt Ion: 117 Resp: 1659956
Ion Ratio Lower Upper
117 100
82 66.1 49.5 74.3
119 32.5 24.5 36.7

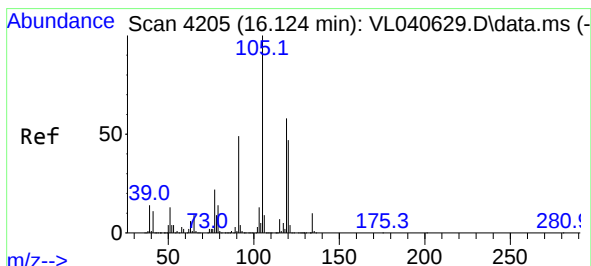
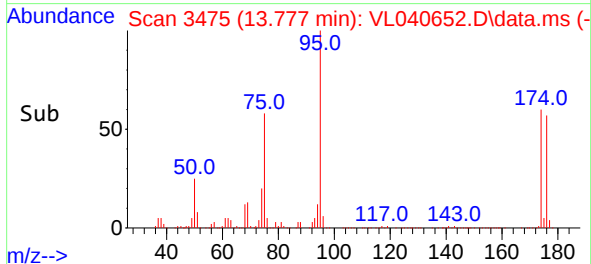
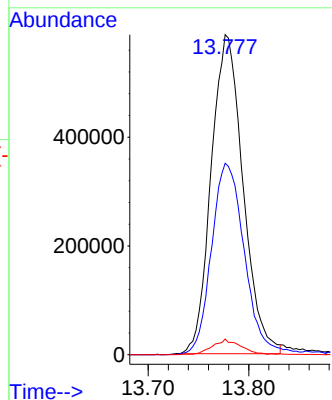
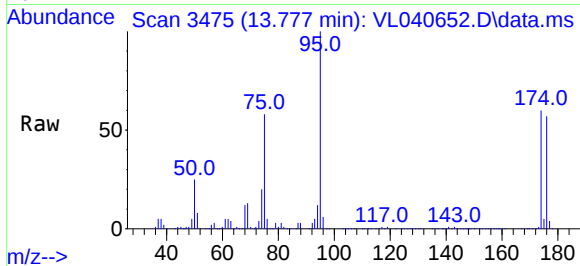




#68
1-Bromo-4-Fluorobenzene
Concen: 9.768 ppbv
RT: 13.777 min Scan# 34
Delta R.T. -0.016 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

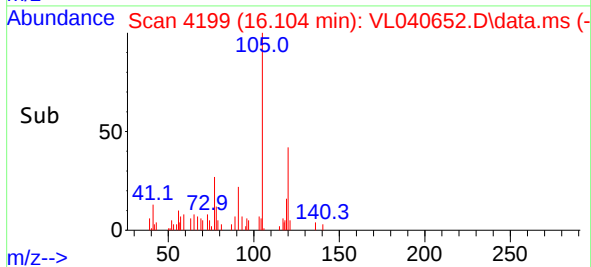
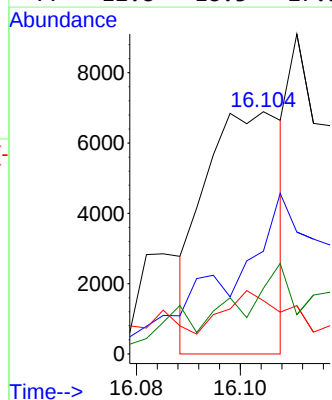
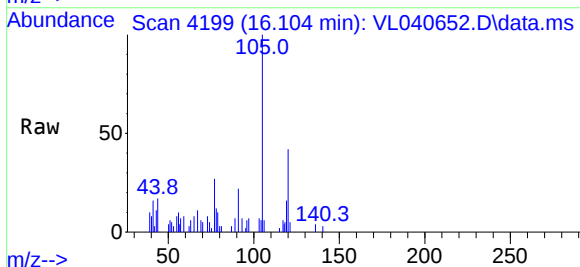
Instrument :
MSVOA_L
ClientSampleId :

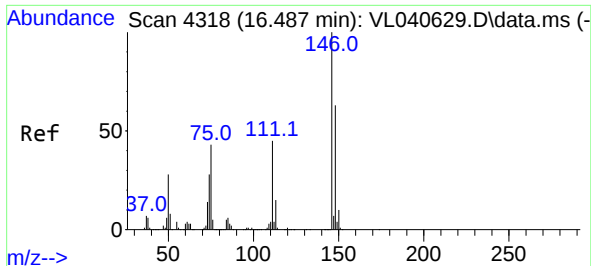
Tgt Ion: 95 Resp: 1289483
Ion Ratio Lower Upper
95 100
174 63.9 49.1 73.7
175 4.5 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 0.035 ppbv
RT: 16.104 min Scan# 4199
Delta R.T. -0.019 min
Lab File: VL040652.D
Acq: 5 Sep 2023 18:14

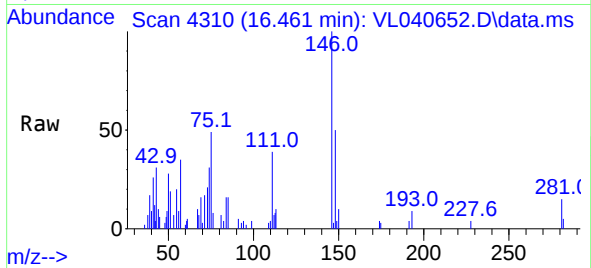
Tgt Ion: 105 Resp: 7092
Ion Ratio Lower Upper
105 100
120 44.0 37.7 56.5
91 18.8 41.2 61.8#
77 12.8 18.3 27.5#





#76
 1,4-Dichlorobenzene
 Concen: 0.040 ppbv
 RT: 16.461 min Scan# 41
 Delta R.T. -0.026 min
 Lab File: VL040652.D
 Acq: 5 Sep 2023 18:14

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:146 Resp: 4565
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.2 69.5#
 148 0.0 32.5 97.5#

