

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
 Data File : VL040535.D
 Acq On : 14 Jul 2023 20:28
 Operator : SY/MD
 Sample : 03636-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jul 16 23:33:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

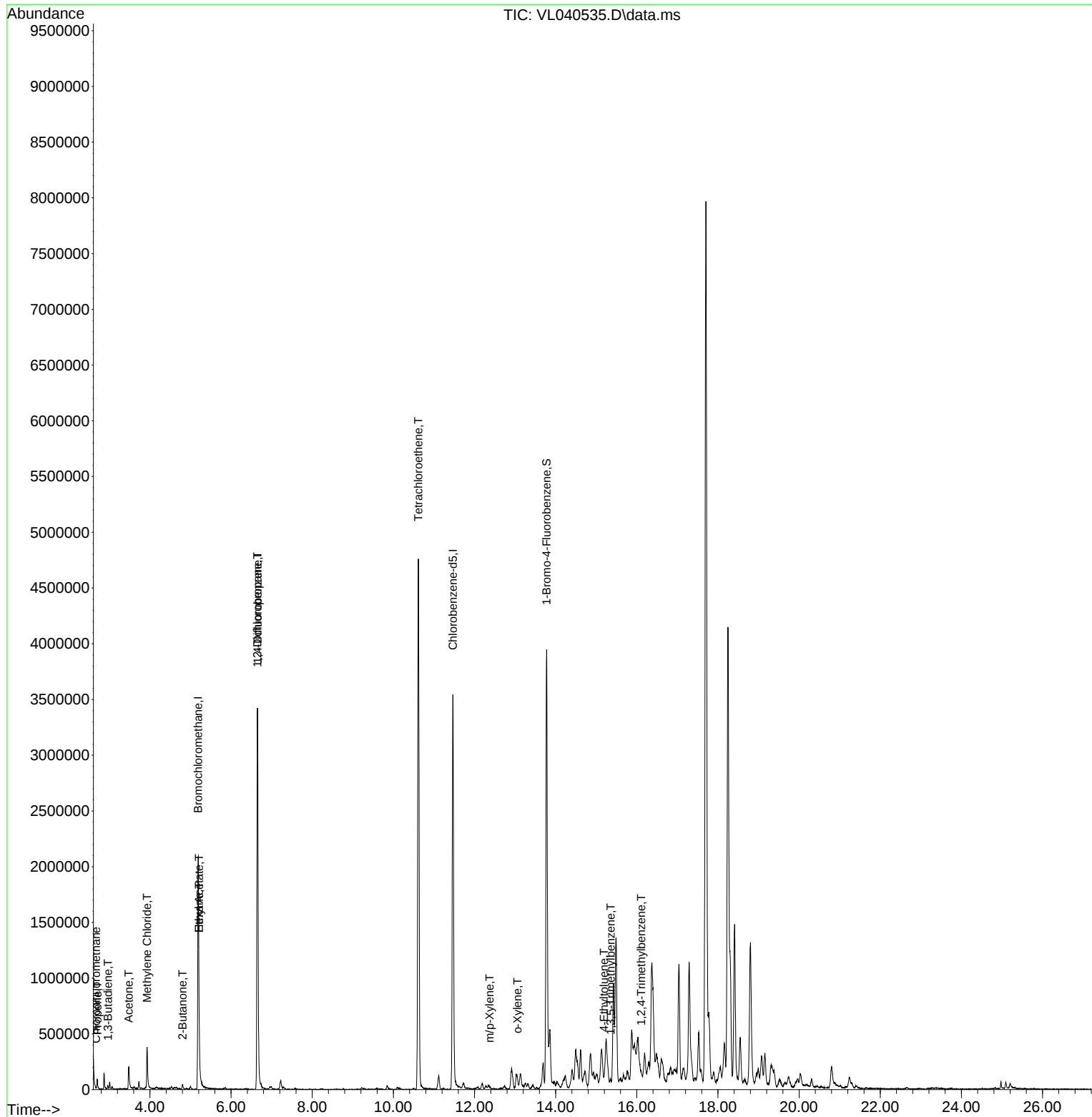
Internal Standards						
1) Bromochloromethane	5.189	49	991140	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.651	114	2721502	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.468	117	2405551	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1912723	10.047	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.500%	
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.671	51	5625	0.036	ppbv #	83
9) Propene	2.703	41	17887	0.333	ppbv	86
15) Acetone	3.475	43	212887	1.866	ppbv	98
16) 1,3-Butadiene	2.964	39	8079	0.140	ppbv #	16
20) Methylene Chloride	3.931	84	115386	2.378	ppbv	94
25) Ethyl Acetate	5.208	43	74207	0.342	ppbv #	76
26) Hexane	5.208	57	104546	1.036	ppbv #	41
34) 2-Butanone	4.803	43	50719	0.377	ppbv	96
39) 1,2-Dichloropropane	6.648	63	655712	7.779	ppbv #	27
52) Tetrachloroethene	10.619	164	1224031	17.261	ppbv	97
59) m/p-Xylene	12.375	91	8843	0.033	ppbv #	31
60) o-Xylene	13.060	91	48272	0.188	ppbv	99
72) 4-Ethyltoluene	15.191	105	14290	0.047	ppbv #	56
73) 1,3,5-Trimethylbenzene	15.355	105	10514	0.040	ppbv #	57
74) 1,2,4-Trimethylbenzene	16.104	105	65524	0.212	ppbv #	60

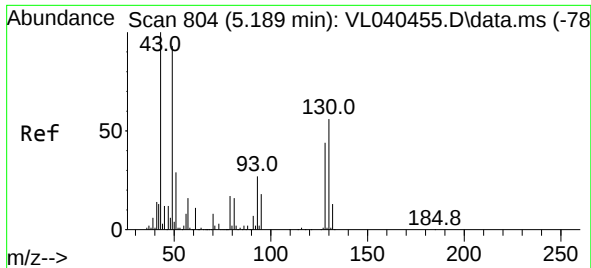
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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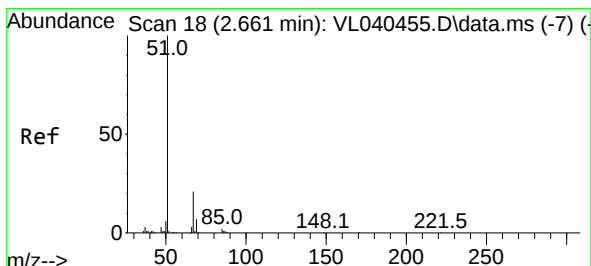
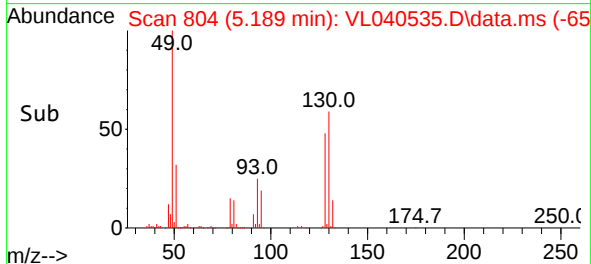
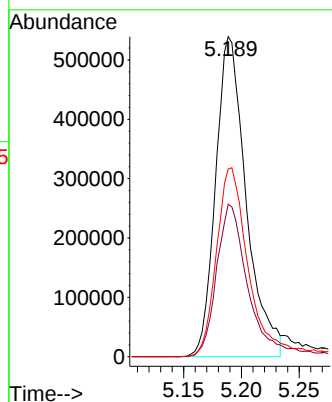
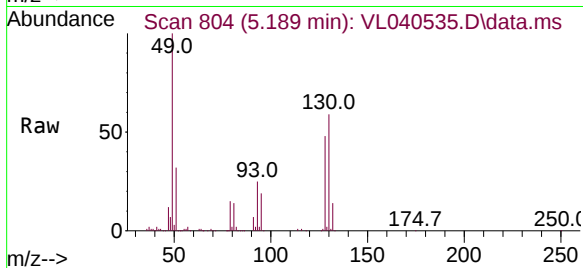




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.013 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

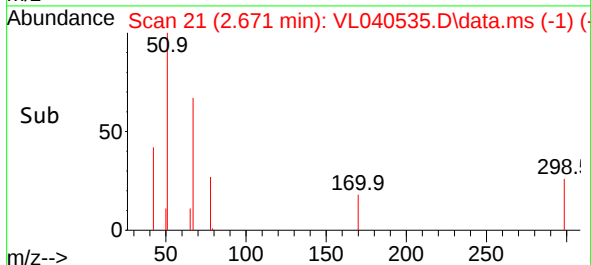
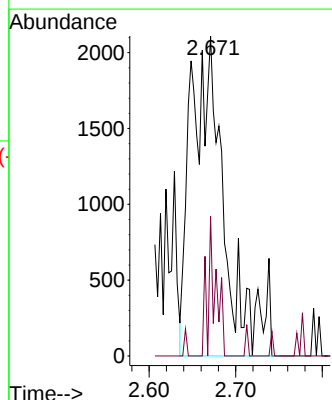
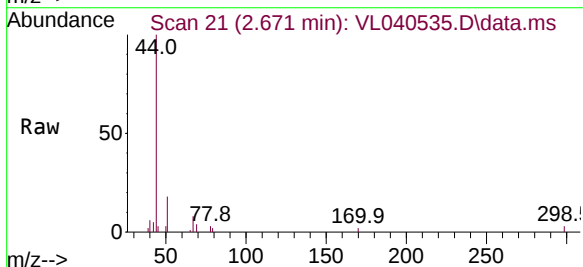
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

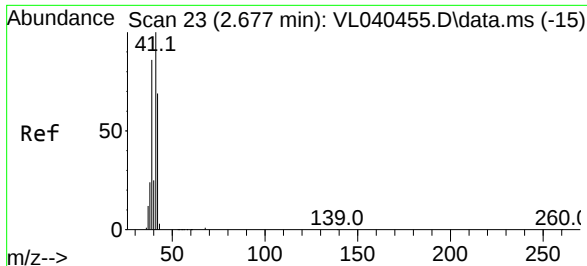
Tgt Ion: 49 Resp: 991140
Ion Ratio Lower Upper
49 100
128 51.1 25.1 75.4
130 64.8 31.6 94.7



#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

Tgt Ion: 51 Resp: 5625
Ion Ratio Lower Upper
51 100
67 10.6 14.6 21.8





#9

Propene

Concen: 0.333 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL040535.D

Acq: 14 Jul 2023 20:28

Instrument :

MSVOA_L

ClientSampleId :

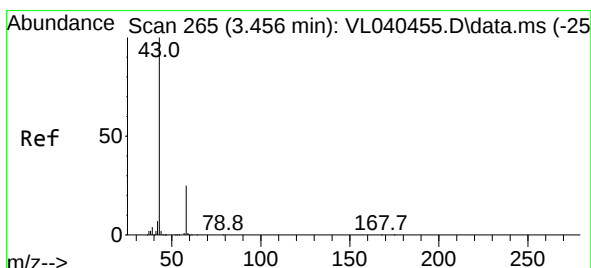
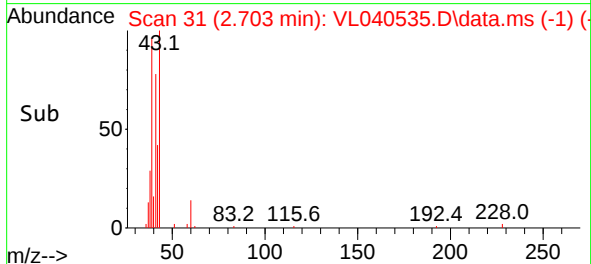
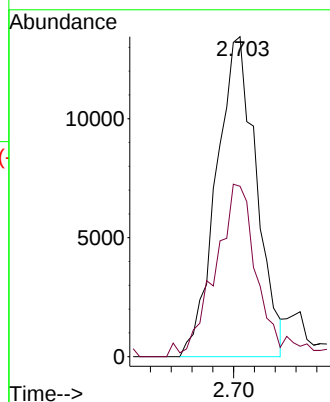
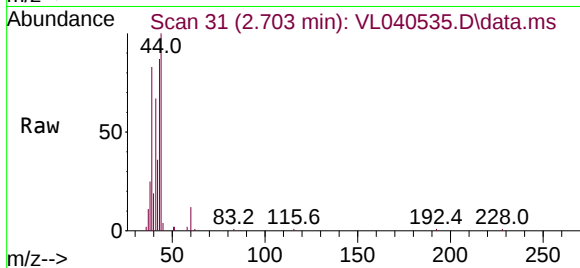
SV1DL

Tgt Ion: 41 Resp: 17887

Ion Ratio Lower Upper

41 100

42 57.8 55.0 82.6



#15

Acetone

Concen: 1.866 ppbv

RT: 3.475 min Scan# 271

Delta R.T. -0.000 min

Lab File: VL040535.D

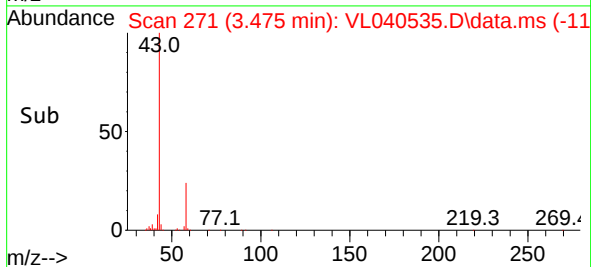
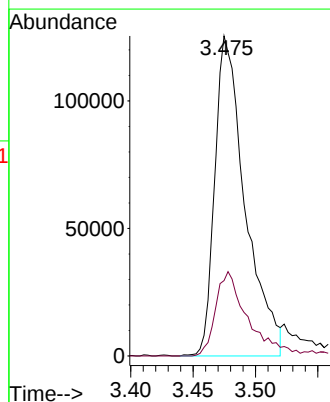
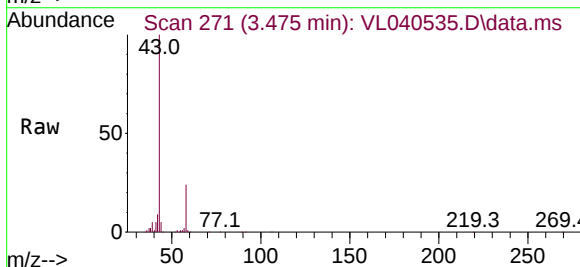
Acq: 14 Jul 2023 20:28

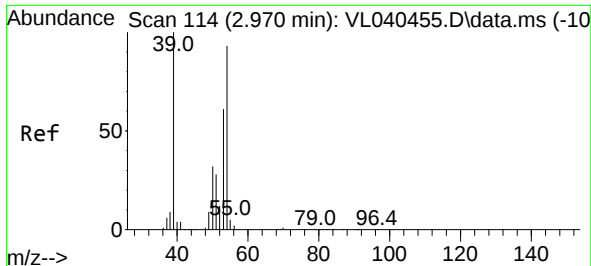
Tgt Ion: 43 Resp: 212887

Ion Ratio Lower Upper

43 100

58 29.6 22.9 34.3

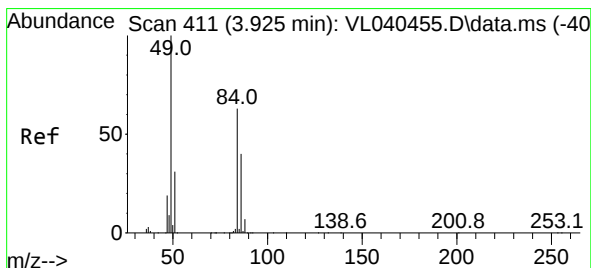
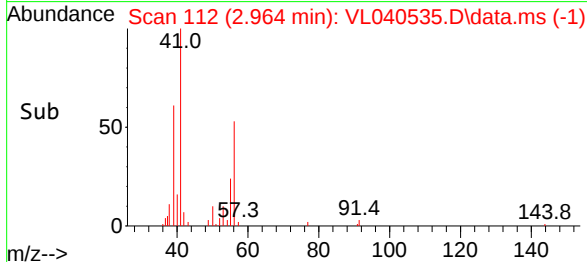
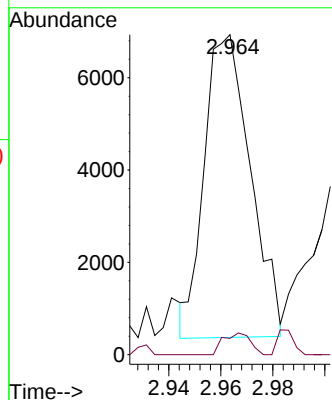
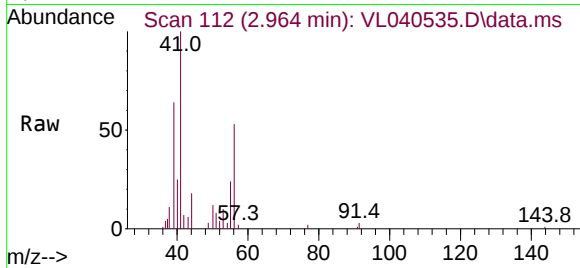




#16
1,3-Butadiene
Concen: 0.140 ppbv
RT: 2.964 min Scan# 114
Delta R.T. -0.029 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

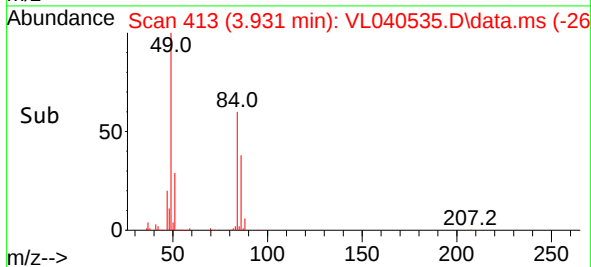
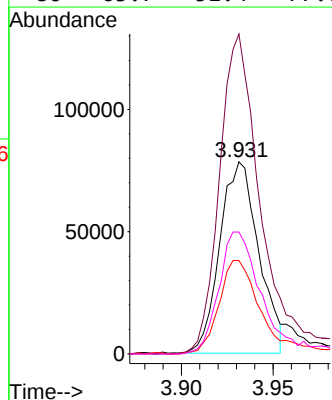
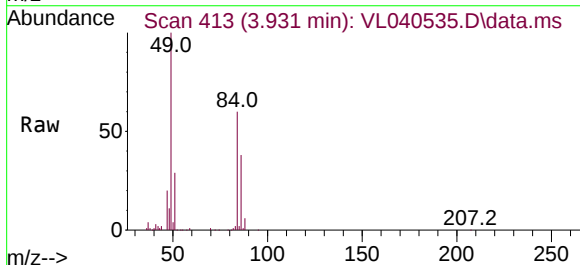
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

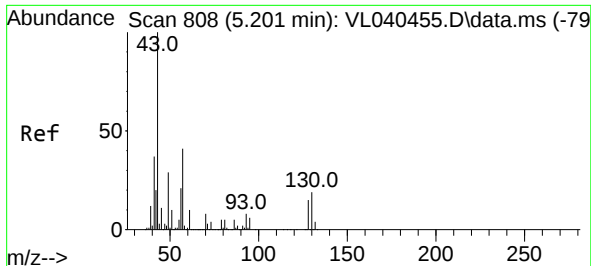
Tgt Ion: 39 Resp: 8079
Ion Ratio Lower Upper
39 100
54 7.1 66.6 100.0#



#20
Methylene Chloride
Concen: 2.378 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.010 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

Tgt Ion: 84 Resp: 115386
Ion Ratio Lower Upper
84 100
49 166.6 123.4 185.2
51 48.9 38.3 57.5
86 63.7 51.4 77.0

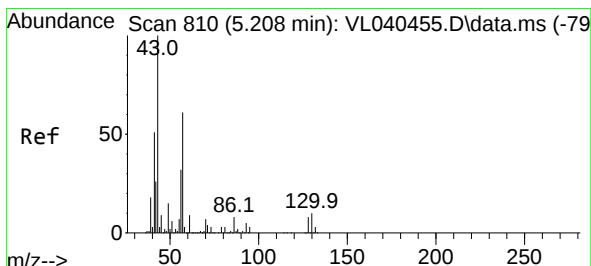
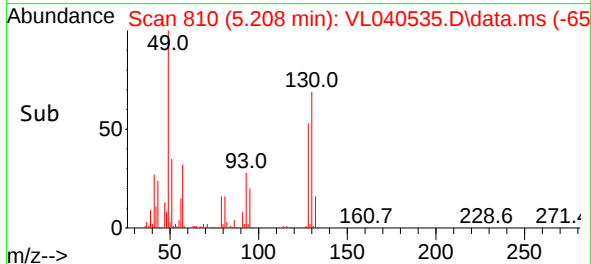
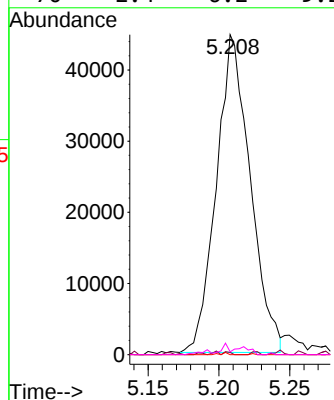
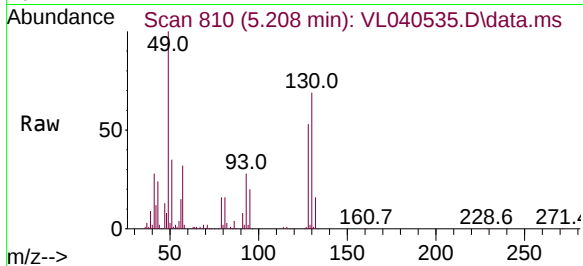




#25
Ethyl Acetate
Concen: 0.342 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

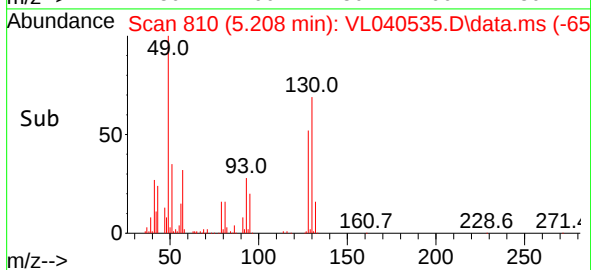
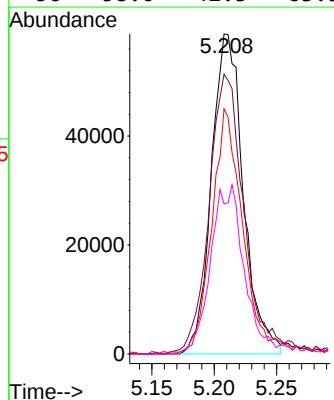
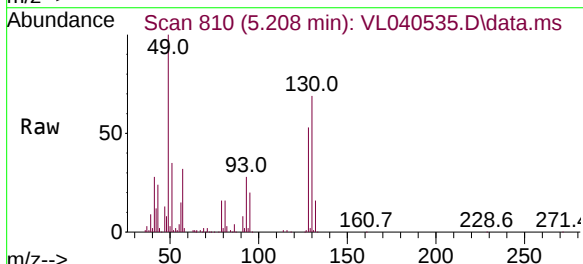
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

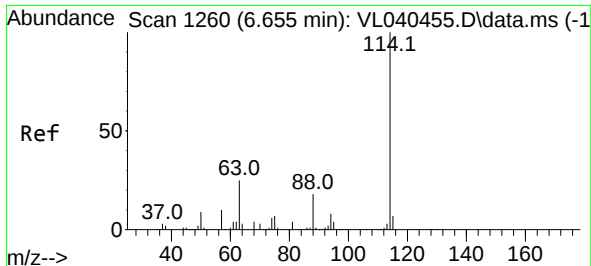
Tgt Ion: 43	Resp: 74207
Ion Ratio	Lower Upper
43 100	
45 0.3	8.2 12.4#
61 0.0	8.3 12.5#
70 2.4	6.2 9.2#



#26
Hexane
Concen: 1.036 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.013 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

Tgt Ion: 57	Resp: 104546
Ion Ratio	Lower Upper
57 100	
41 98.7	69.5 104.3
43 76.4	177.1 265.7#
56 58.0	42.3 63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 114

Delta R.T. -0.013 min

Lab File: VL040535.D

Acq: 14 Jul 2023 20:28

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

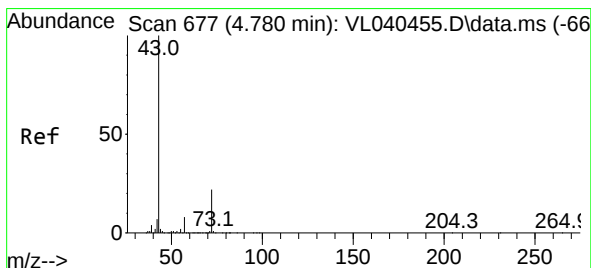
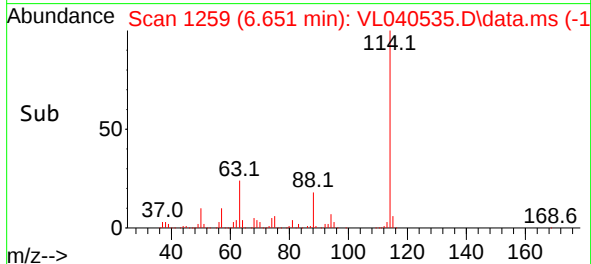
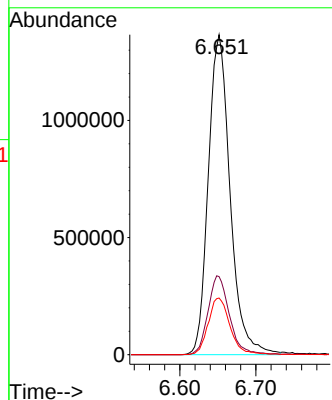
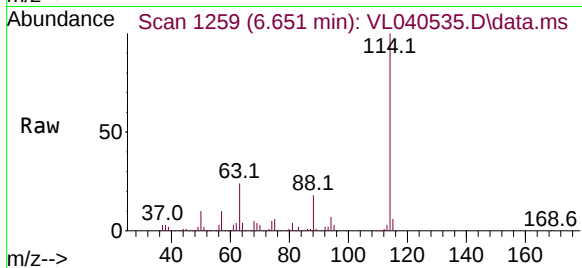
Tgt Ion:114 Resp: 2721502

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

88 17.9 14.2 21.2



#34

2-Butanone

Concen: 0.377 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.010 min

Lab File: VL040535.D

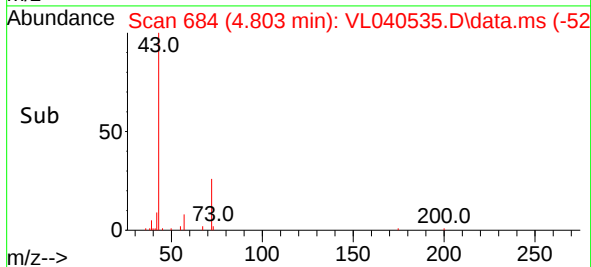
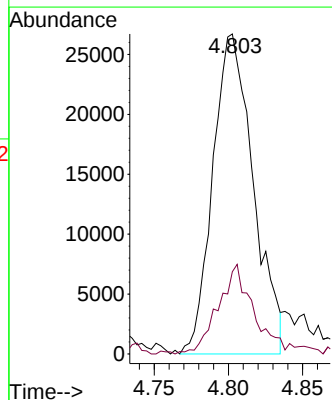
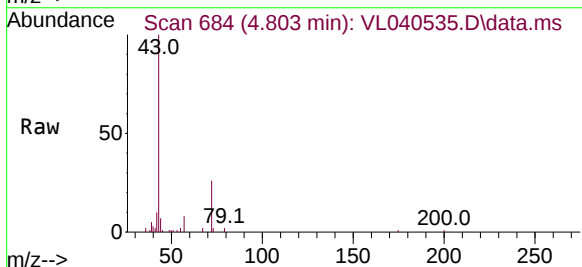
Acq: 14 Jul 2023 20:28

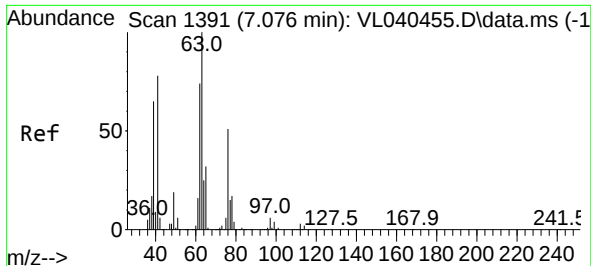
Tgt Ion: 43 Resp: 50719

Ion Ratio Lower Upper

43 100

72 25.7 19.1 28.7





#39

1,2-Dichloropropane

Concen: 7.779 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL040535.D

Acq: 14 Jul 2023 20:28

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

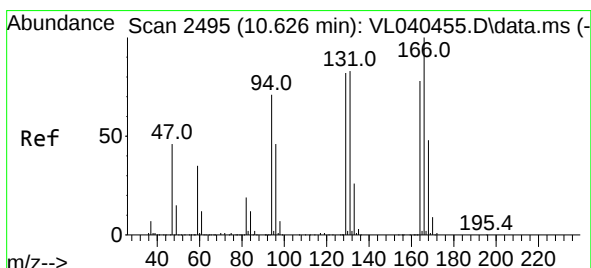
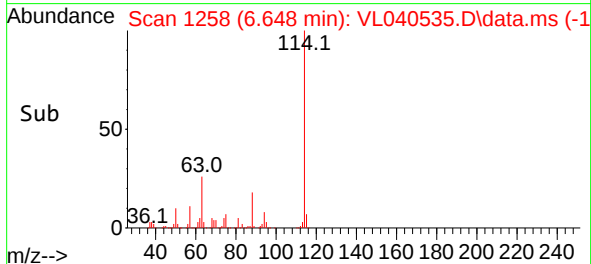
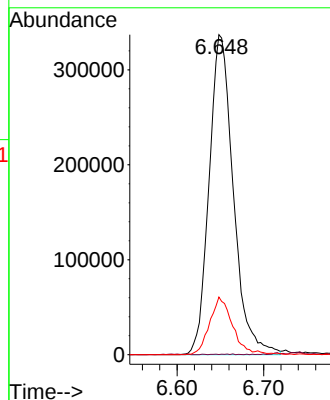
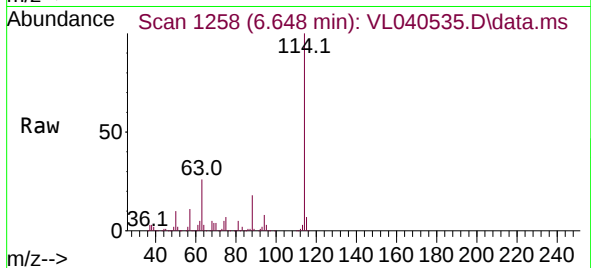
Tgt Ion: 63 Resp: 655712

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 18.0 55.6 83.4#



#52

Tetrachloroethene

Concen: 17.261 ppbv

RT: 10.619 min Scan# 2493

Delta R.T. -0.007 min

Lab File: VL040535.D

Acq: 14 Jul 2023 20:28

Tgt Ion:164 Resp: 1224031

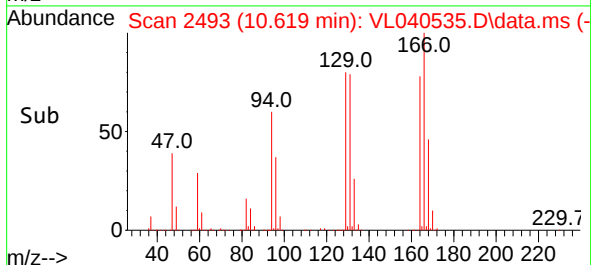
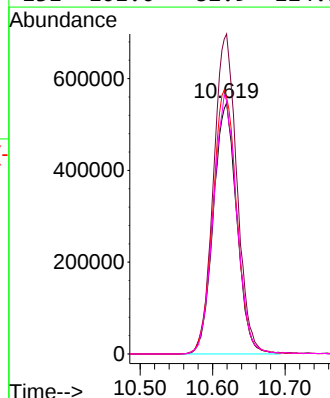
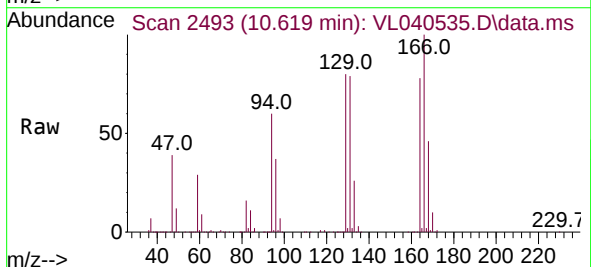
Ion Ratio Lower Upper

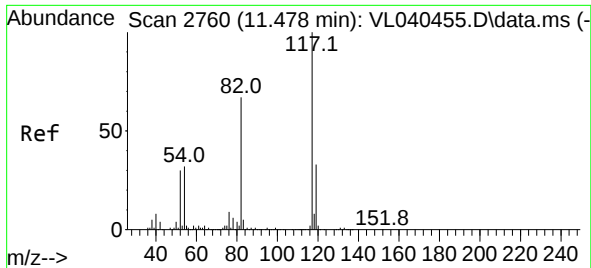
164 100

166 127.5 103.9 155.9

129 102.2 84.6 126.8

131 101.0 82.9 124.3

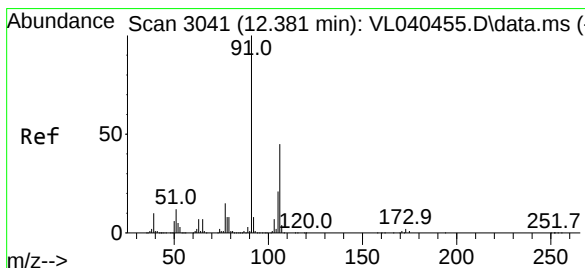
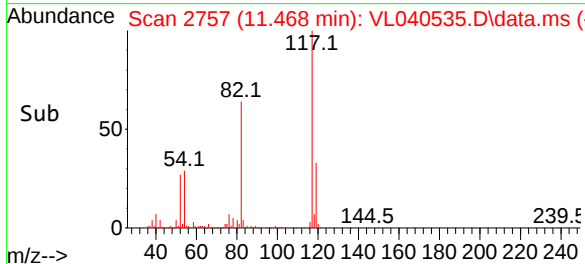
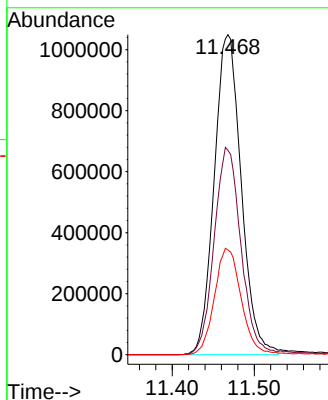
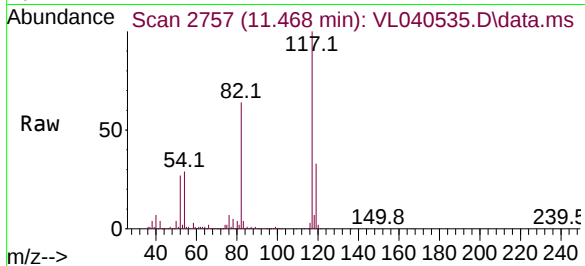




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

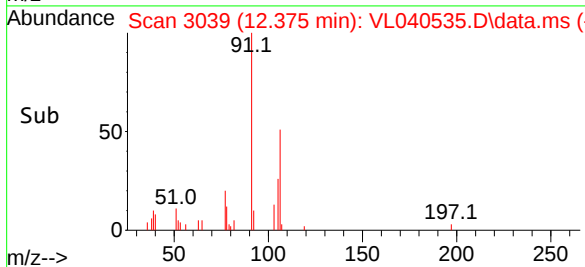
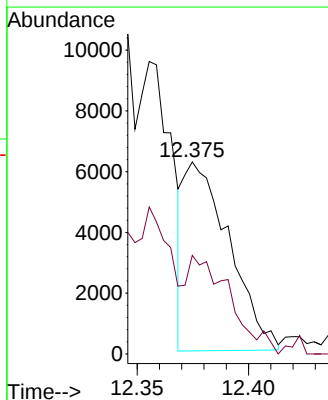
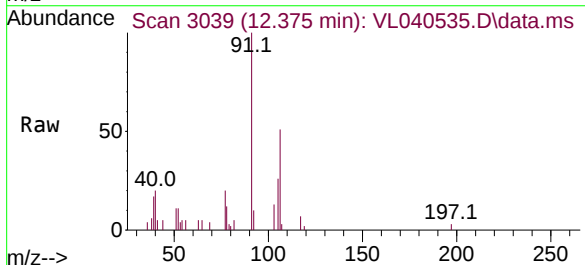
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

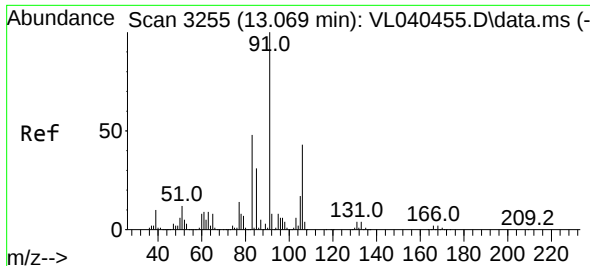
Tgt Ion:117 Resp: 2405551
Ion Ratio Lower Upper
117 100
82 65.3 50.2 75.4
119 33.3 26.9 40.3



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 12.375 min Scan# 3039
Delta R.T. -0.010 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

Tgt Ion: 91 Resp: 8843
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

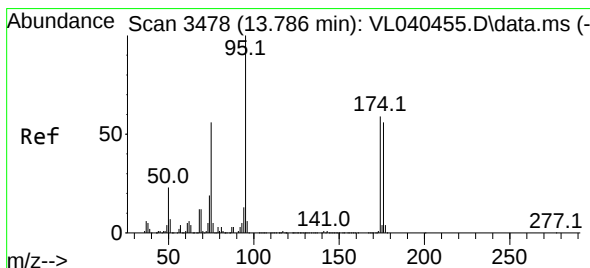
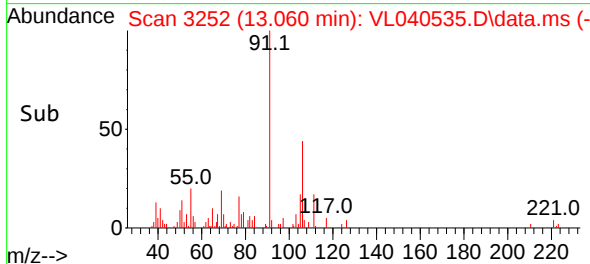
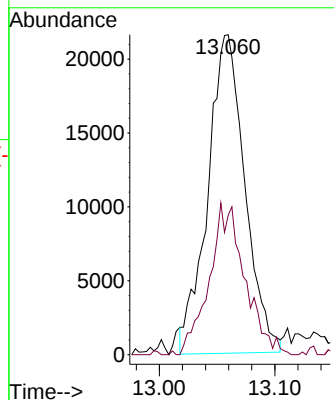
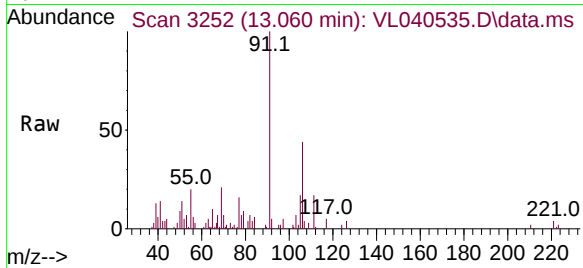




#60
o-Xylene
Concen: 0.188 ppbv
RT: 13.060 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

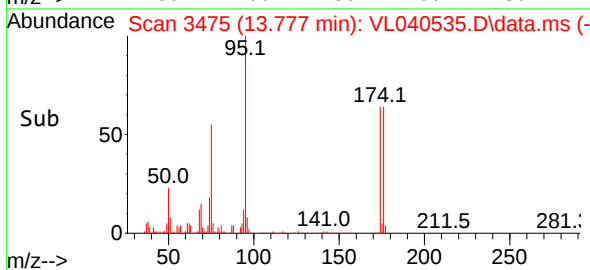
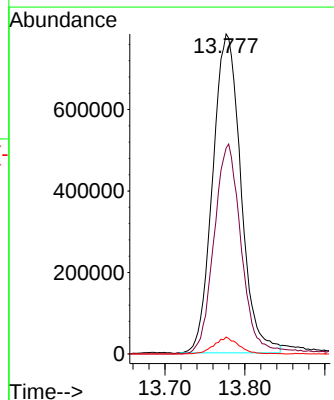
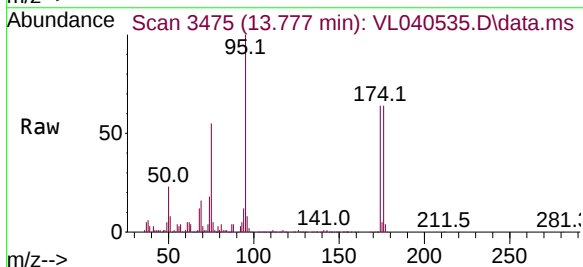
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

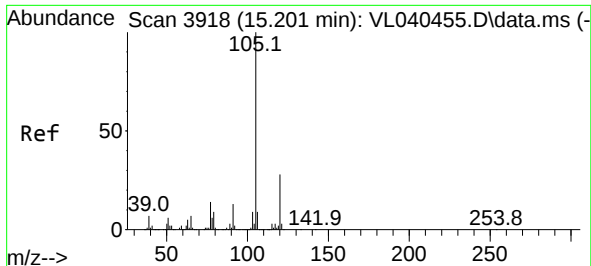
Tgt Ion: 91 Resp: 48272
Ion Ratio Lower Upper
91 100
106 45.7 22.7 68.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.047 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.007 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

Tgt Ion: 95 Resp: 1912723
Ion Ratio Lower Upper
95 100
174 65.8 50.6 75.8
175 4.6 3.7 5.5

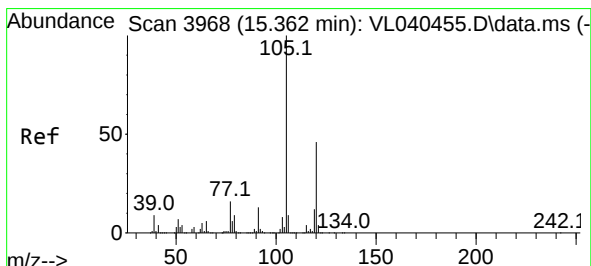
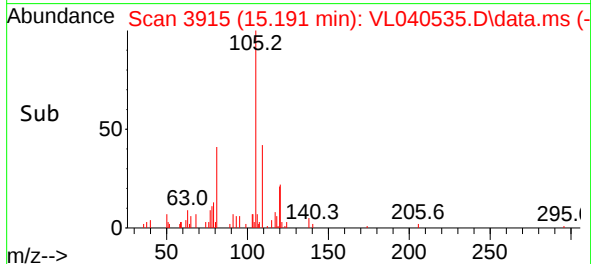
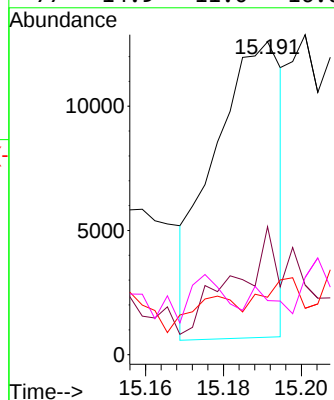
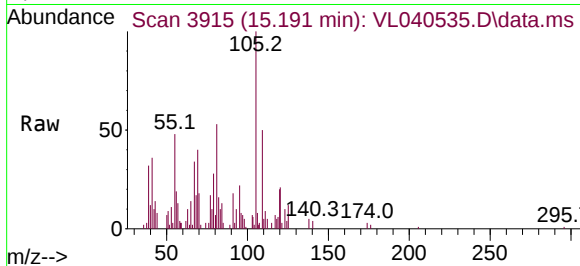




#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 15.191 min Scan# 3915
Delta R.T. -0.013 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

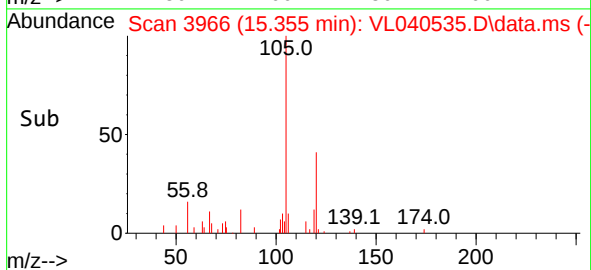
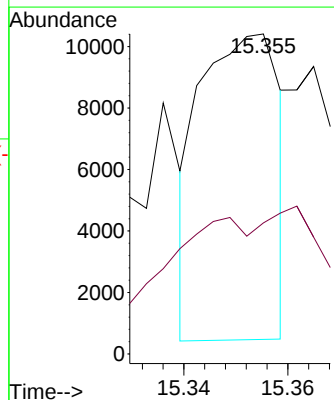
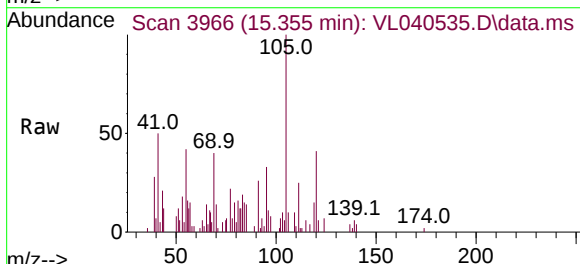
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

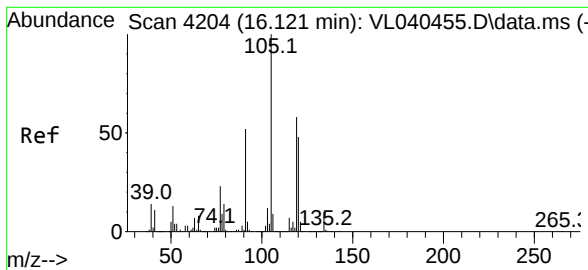
Tgt Ion:105 Resp: 14290
Ion Ratio Lower Upper
105 100
120 67.6 24.6 37.0#
91 0.0 10.7 16.1#
77 14.9 11.0 16.6



#73
1,3,5-Trimethylbenzene
Concen: 0.040 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. -0.007 min
Lab File: VL040535.D
Acq: 14 Jul 2023 20:28

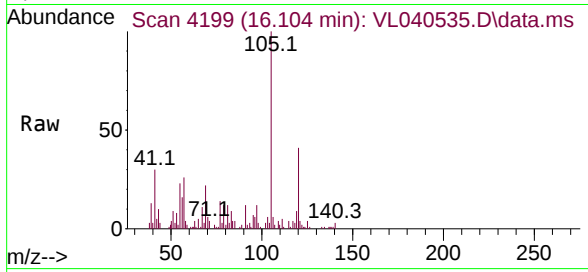
Tgt Ion:105 Resp: 10514
Ion Ratio Lower Upper
105 100
120 18.8 38.2 57.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.212 ppbv
 RT: 16.104 min Scan# 4199
 Delta R.T. -0.013 min
 Lab File: VL040535.D
 Acq: 14 Jul 2023 20:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion:	105	Resp:	65524
Ion	Ratio	Lower	Upper
105	100		
120	41.3	40.3	60.5
91	8.5	46.8	70.2#
77	8.9	18.6	28.0#

