

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040395.D
 Acq On : 20 Apr 2023 00:58
 Operator : SY/MD
 Sample : 02368-04DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 20 07:51:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

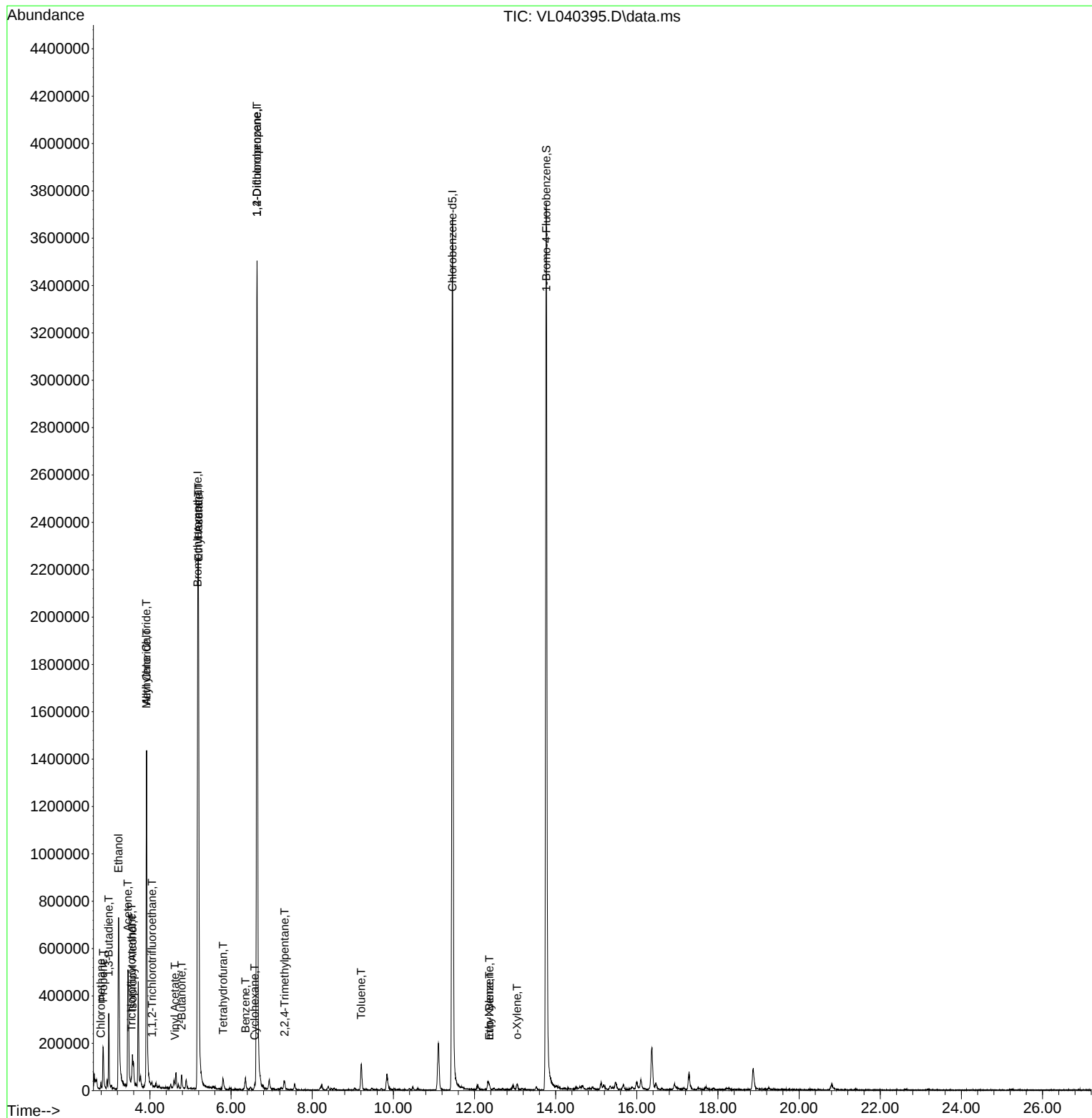
Internal Standards						
1) Bromochloromethane	5.176	49	938860	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	2732665	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.455	117	2438044	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1933561	9.591	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
4) Chloromethane	2.793	50	17001	0.219	ppbv #	85
9) Propene	2.845	41	50304	1.038	ppbv	85
11) Trichlorofluoromethane	3.545	101	9309	0.054	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.050	101	3780	0.032	ppbv #	49
13) Ethanol	3.227	45	890502	220.089	ppbv	99
15) Acetone	3.455	43	504022	3.790	ppbv	96
16) 1,3-Butadiene	2.983	39	35358	0.643	ppbv #	16
19) Isopropyl Alcohol	3.571	45	130831	2.156	ppbv #	1
20) Methylene Chloride	3.915	84	482598	9.090	ppbv	96
21) Allyl Chloride	3.918	41	15058	0.199	ppbv #	39
23) Vinyl Acetate	4.616	43	2655	0.078	ppbv #	72
25) Ethyl Acetate	5.198	43	479451	2.143	ppbv #	77
26) Hexane	5.195	57	676381	7.170	ppbv #	36
30) Cyclohexane	6.578	84	2683	0.037	ppbv #	1
34) 2-Butanone	4.780	43	62341	0.423	ppbv	93
36) Benzene	6.356	78	20838	0.093	ppbv #	94
39) 1,2-Dichloropropane	6.639	63	669091	7.627	ppbv #	24
41) Tetrahydrofuran	5.803	42	4725	0.059	ppbv #	34
44) 2,2,4-Trimethylpentane	7.320	57	19408	0.052	ppbv #	34
53) Toluene	9.208	91	78644	0.333	ppbv	99
58) Ethyl Benzene	12.365	91	9938	0.033	ppbv	91
59) m/p-Xylene	12.365	91	9938	0.036	ppbv #	32
60) o-Xylene	13.050	91	10264	0.039	ppbv #	32

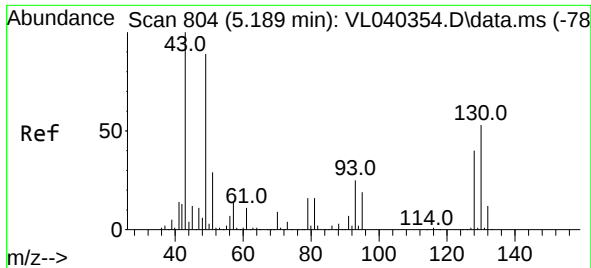
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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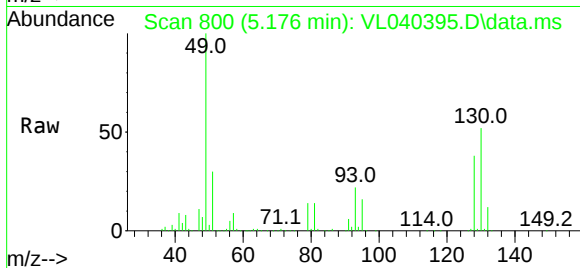
Quant Time: Apr 20 07:51:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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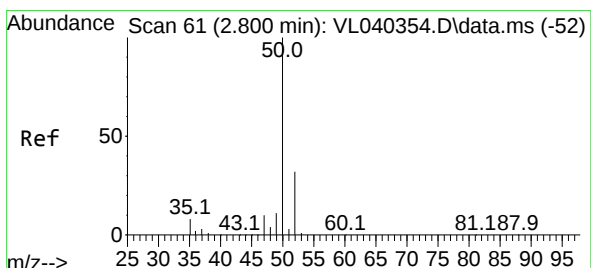
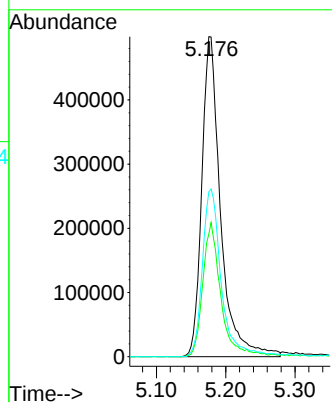
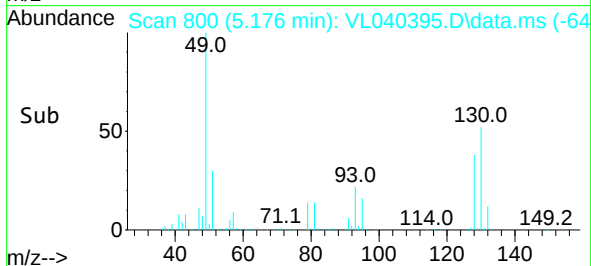


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Instrument :
MSVOA_L
ClientSampleId :

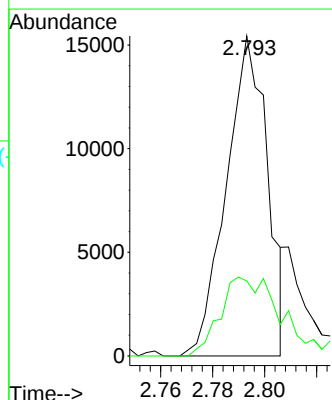
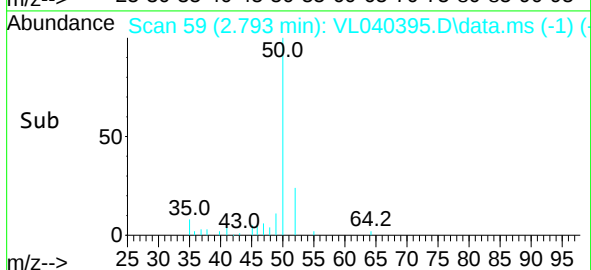
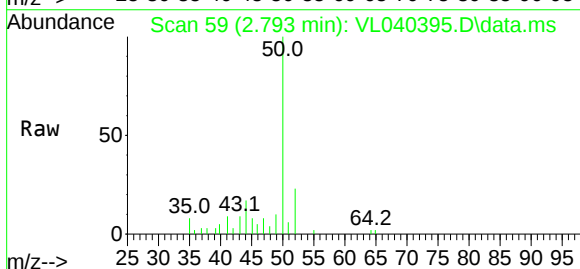


Tgt Ion: 49 Resp: 938860
Ion Ratio Lower Upper
49 100
128 40.8 23.7 71.1
130 53.4 29.9 89.8

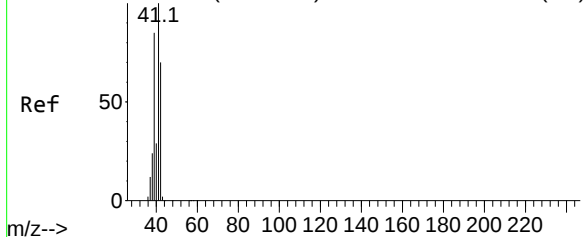


#4
Chloromethane
Concen: 0.219 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.007 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Tgt Ion: 50 Resp: 17001
Ion Ratio Lower Upper
50 100
52 23.4 25.3 37.9#



Abundance Scan 24 (2.681 min): VL040354.D\data.ms (-15)



#9

Propene

Concen: 1.038 ppbv

RT: 2.845 min Scan# 71

Delta R.T. 0.164 min

Lab File: VL040395.D

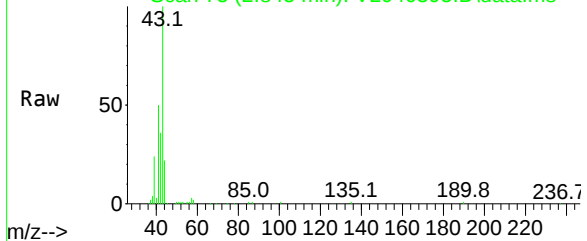
Acq: 20 Apr 2023 00:58

Instrument :

MSVOA_L

ClientSampleId :

Abundance Scan 75 (2.845 min): VL040395.D\data.ms



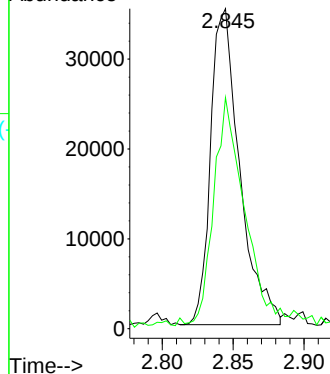
Tgt Ion: 41 Resp: 50304

Ion Ratio Lower Upper

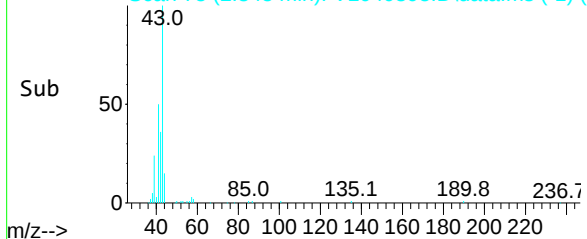
41 100

42 83.2 56.5 84.7

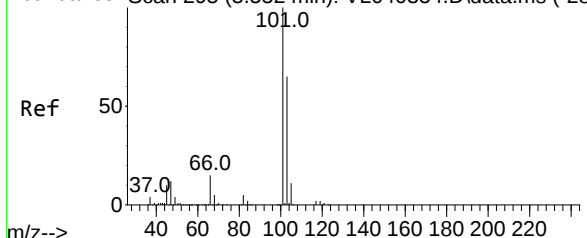
Abundance



Abundance Scan 75 (2.845 min): VL040395.D\data.ms (-1)



Abundance Scan 295 (3.552 min): VL040354.D\data.ms (-28)



#11

Trichlorofluoromethane

Concen: 0.054 ppbv

RT: 3.545 min Scan# 293

Delta R.T. -0.007 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

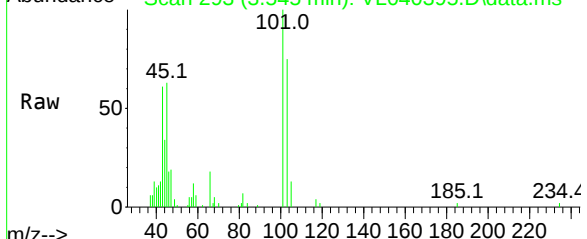
Tgt Ion:101 Resp: 9309

Ion Ratio Lower Upper

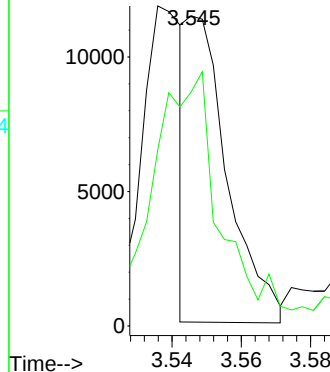
101 100

103 73.7 52.2 78.4

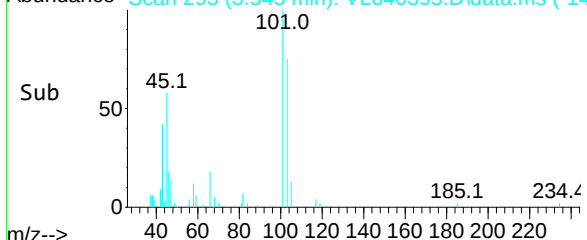
Abundance Scan 293 (3.545 min): VL040395.D\data.ms

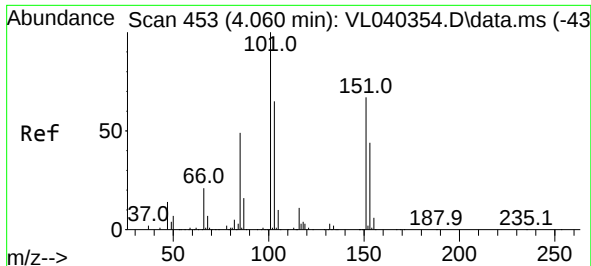


Abundance



Abundance Scan 293 (3.545 min): VL040395.D\data.ms (-14)





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 4.050 min Scan# 41

Delta R.T. -0.010 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

Instrument :

MSVOA_L

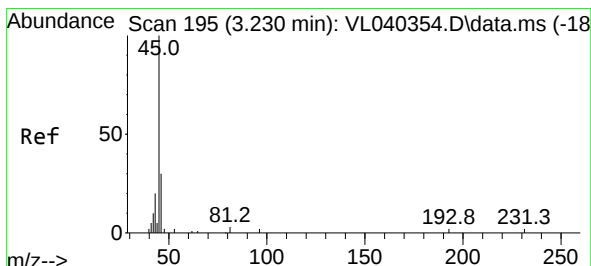
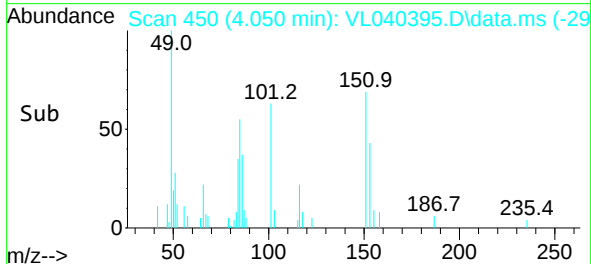
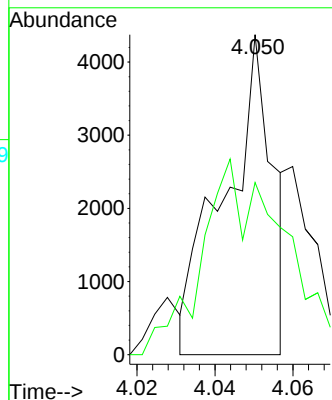
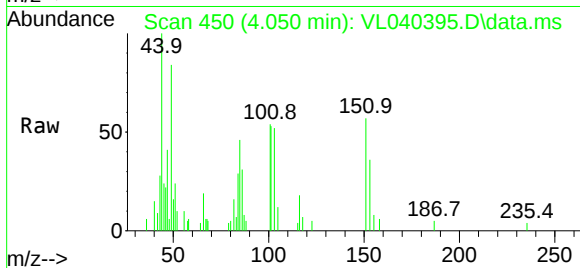
ClientSampleId :

Tgt Ion:101 Resp: 3780

Ion Ratio Lower Upper

101 100

151 109.7 54.7 82.1#



#13

Ethanol

Concen: 220.089 ppbv

RT: 3.227 min Scan# 194

Delta R.T. -0.003 min

Lab File: VL040395.D

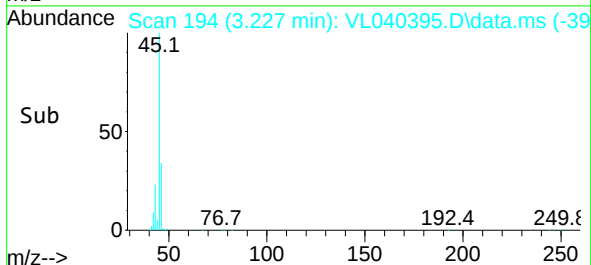
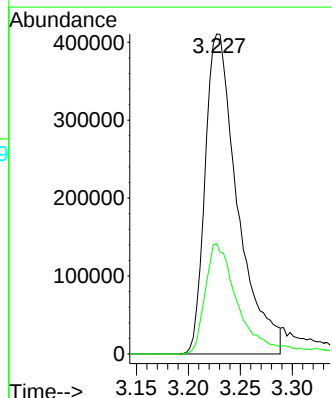
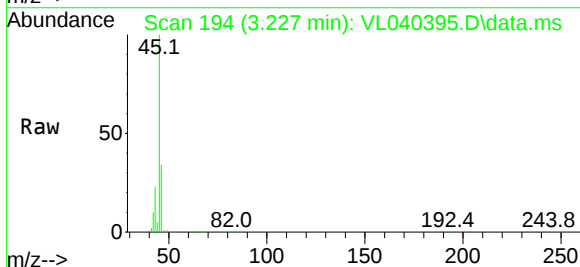
Acq: 20 Apr 2023 00:58

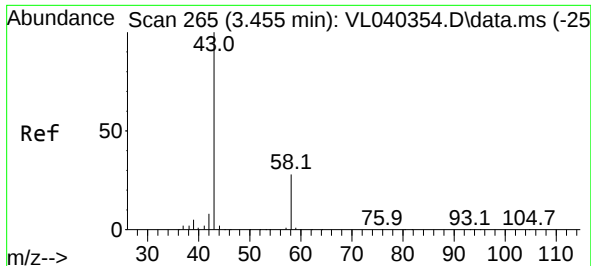
Tgt Ion: 45 Resp: 890502

Ion Ratio Lower Upper

45 100

46 37.5 15.3 61.3

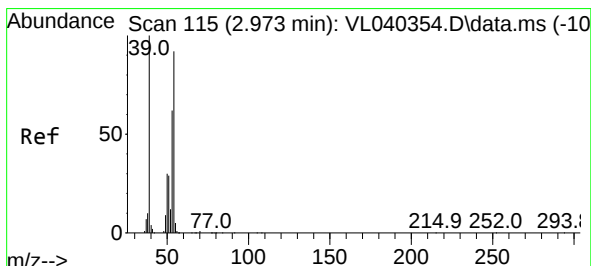
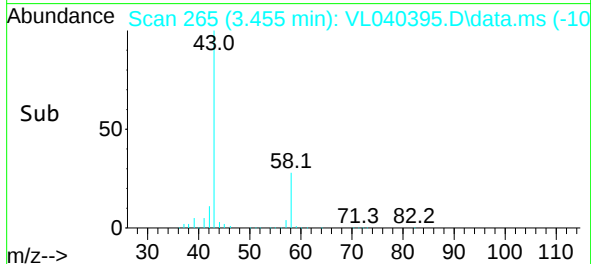
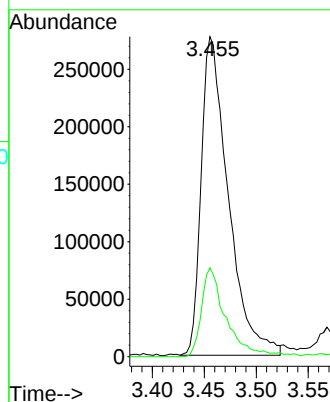
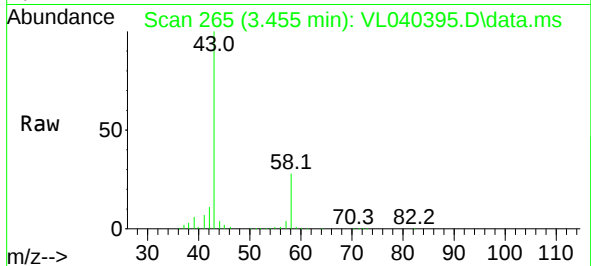




#15
Acetone
Concen: 3.790 ppbv
RT: 3.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

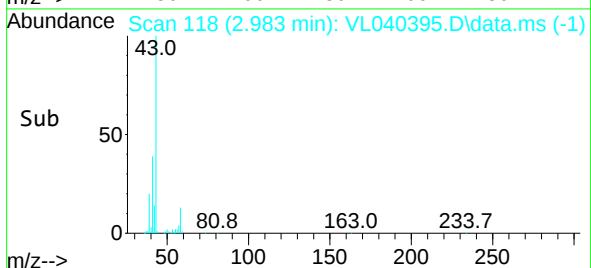
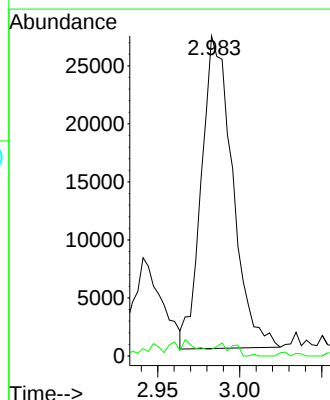
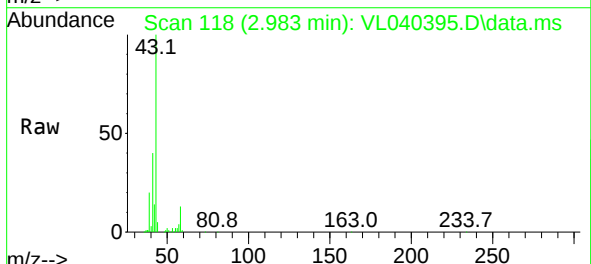
Instrument :
MSVOA_L
ClientSampleId :

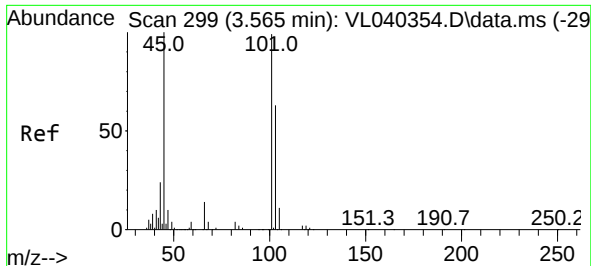
Tgt Ion: 43 Resp: 504022
Ion Ratio Lower Upper
43 100
58 25.4 22.2 33.2



#16
1,3-Butadiene
Concen: 0.643 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.010 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Tgt Ion: 39 Resp: 35358
Ion Ratio Lower Upper
39 100
54 8.5 68.8 103.2#





#19

Isopropyl Alcohol

Concen: 2.156 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.006 min

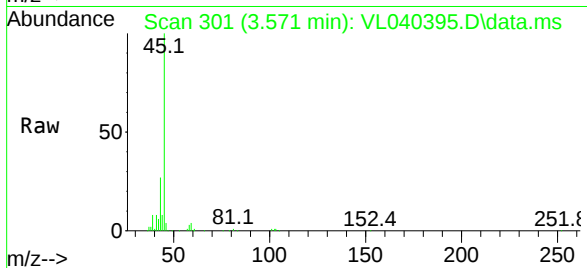
Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

Instrument :

MSVOA_L

ClientSampleId :

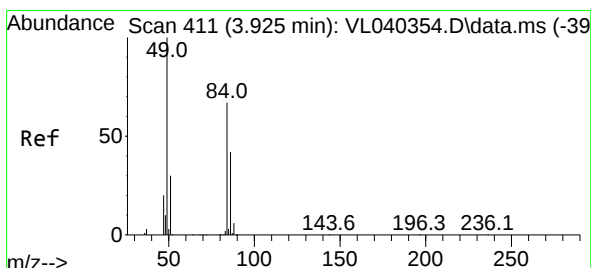
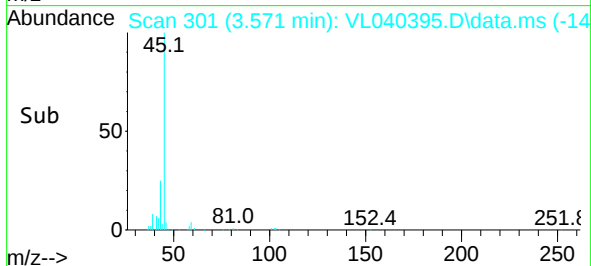
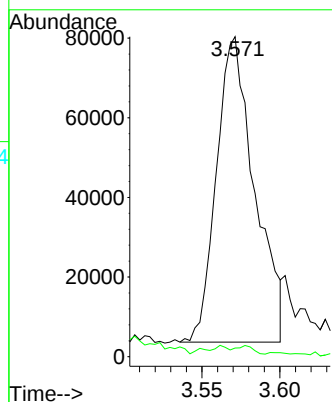


Tgt Ion: 45 Resp: 130831

Ion Ratio Lower Upper

45 100

58 103.6 2.6 4.0#



#20

Methylene Chloride

Concen: 9.090 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.010 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

Tgt Ion: 84 Resp: 482598

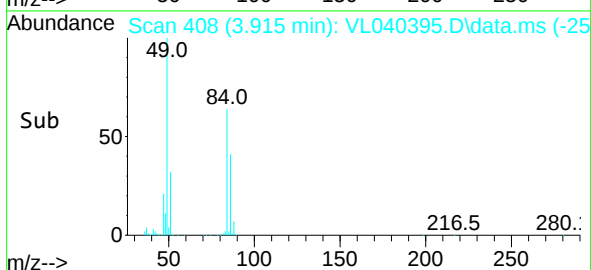
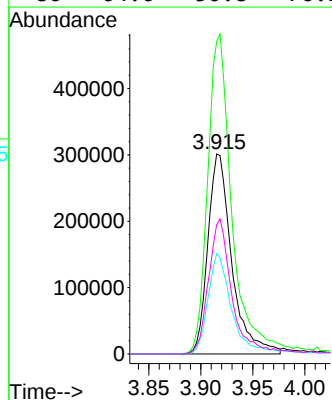
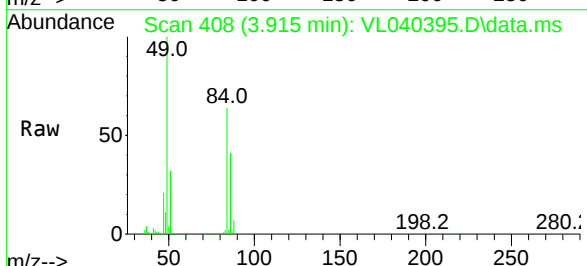
Ion Ratio Lower Upper

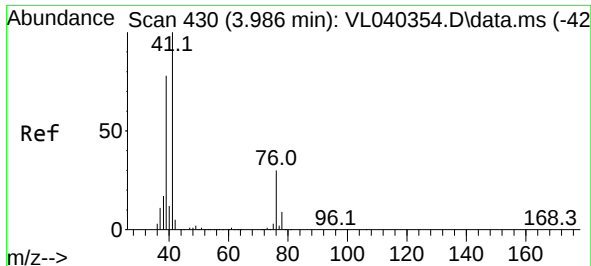
84 100

49 156.1 120.1 180.1

51 50.0 36.3 54.5

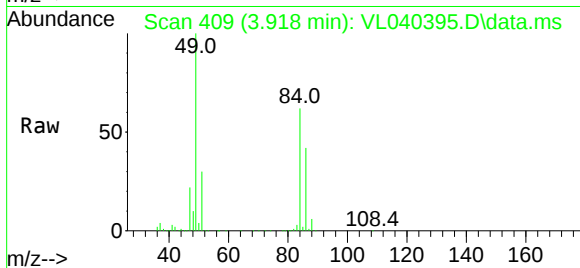
86 64.6 50.8 76.2



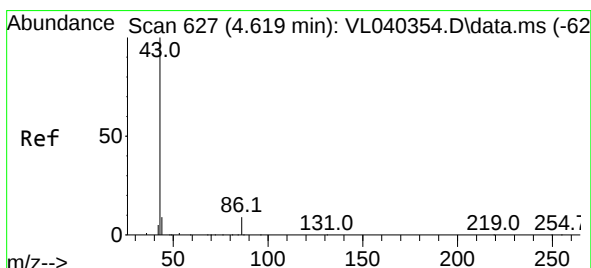
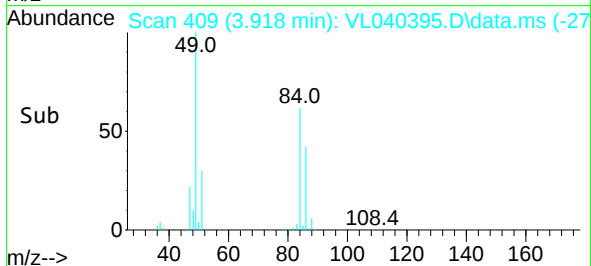
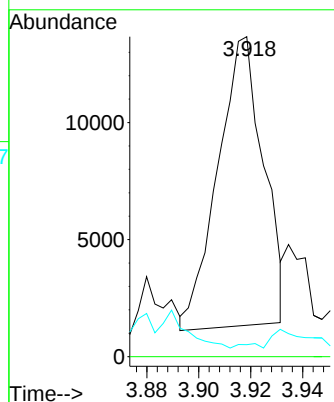


#21
 Allyl Chloride
 Concen: 0.199 ppbv
 RT: 3.918 min Scan# 409
 Delta R.T. -0.068 min
 Lab File: VL040395.D
 Acq: 20 Apr 2023 00:58

Instrument :
 MSVOA_L
 ClientSampleId :

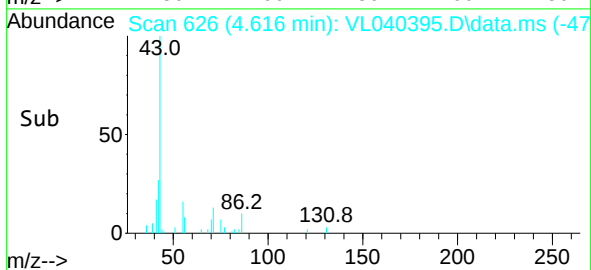
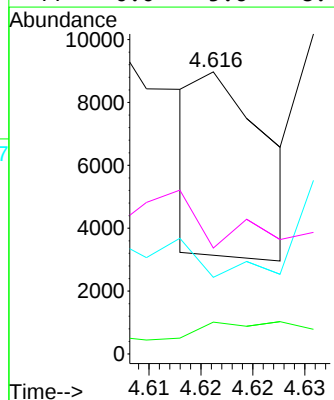
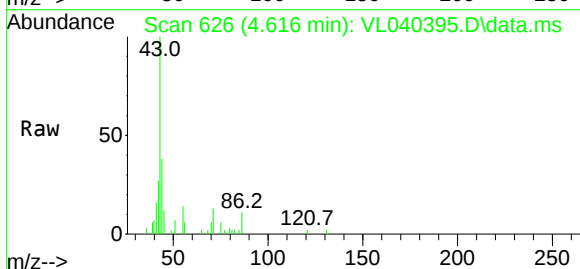


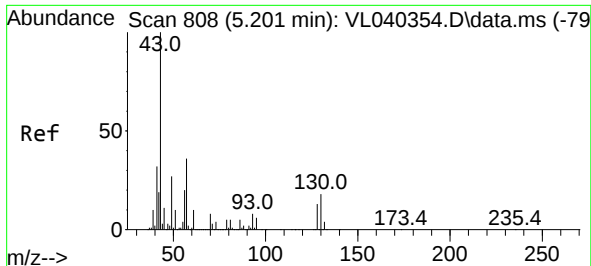
Tgt Ion: 41 Resp: 15058
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.5 38.3#
 39 24.3 64.0 96.0#



#23
 Vinyl Acetate
 Concen: 0.078 ppbv
 RT: 4.616 min Scan# 626
 Delta R.T. -0.003 min
 Lab File: VL040395.D
 Acq: 20 Apr 2023 00:58

Tgt Ion: 43 Resp: 2655
 Ion Ratio Lower Upper
 43 100
 86 21.4 6.0 9.0#
 42 0.0 6.4 9.6#
 44 0.0 5.6 8.4#

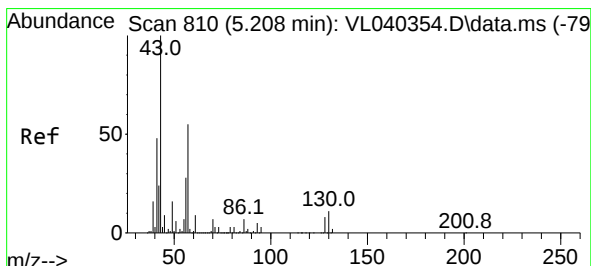
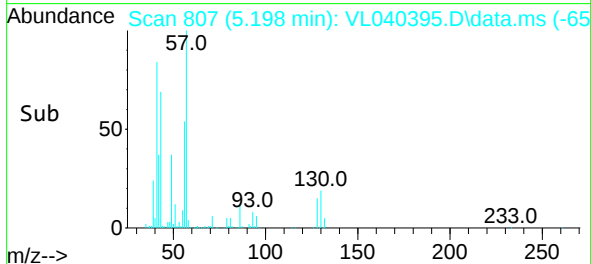
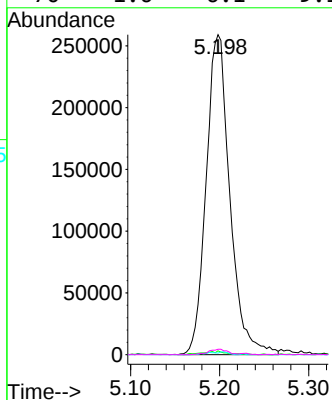
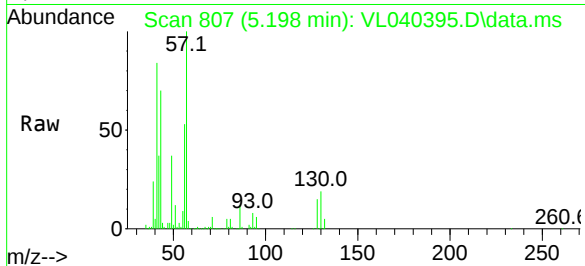




#25
Ethyl Acetate
Concen: 2.143 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

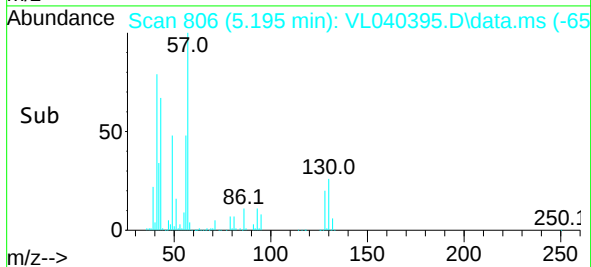
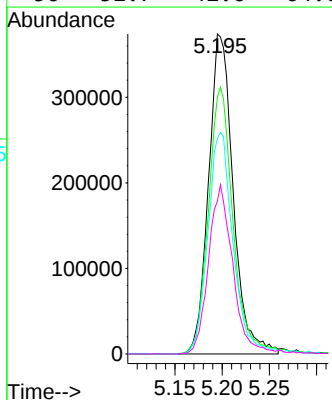
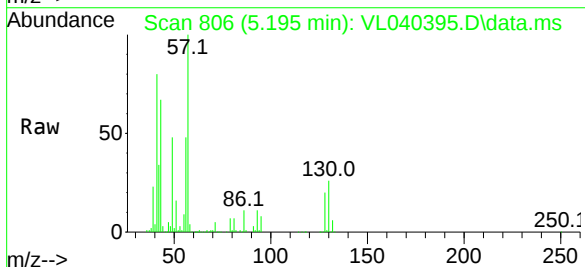
Instrument :
MSVOA_L
ClientSampleId :

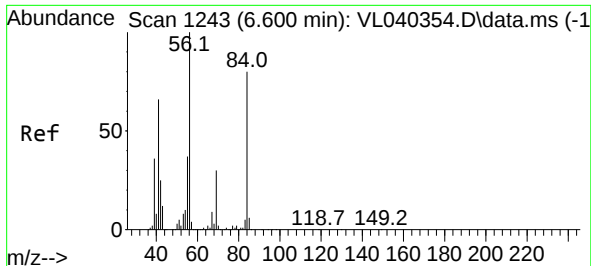
Tgt Ion: 43 Resp: 479451
Ion Ratio Lower Upper
43 100
45 1.2 8.5 12.7#
61 0.7 8.5 12.7#
70 1.6 6.1 9.1#



#26
Hexane
Concen: 7.170 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.013 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

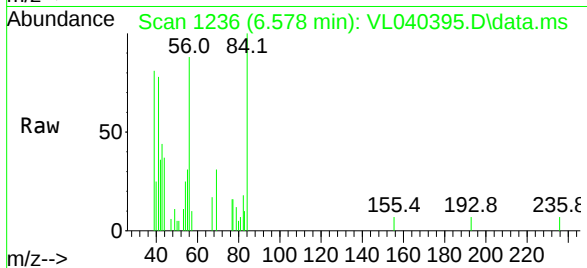
Tgt Ion: 57 Resp: 676381
Ion Ratio Lower Upper
57 100
41 84.6 74.8 112.2
43 71.4 192.7 289.1#
56 52.7 42.6 64.0



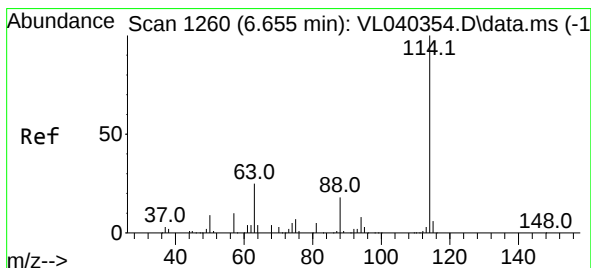
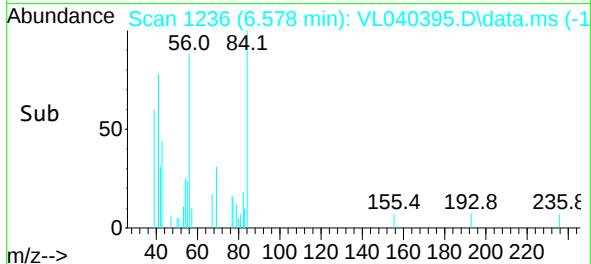
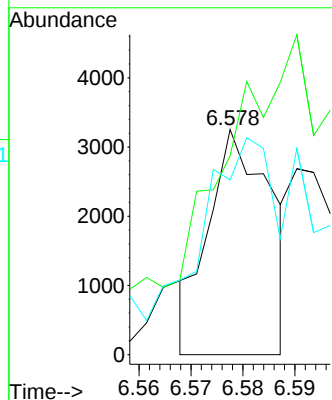


#30
Cyclohexane
Concen: 0.037 ppbv
RT: 6.578 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Instrument :
MSVOA_L
ClientSampleId :

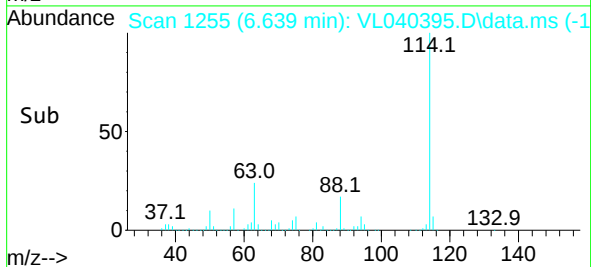
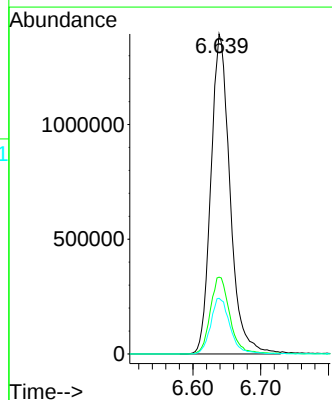
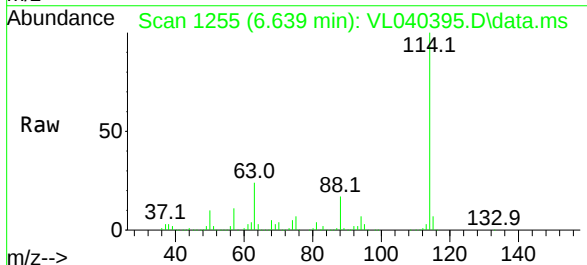


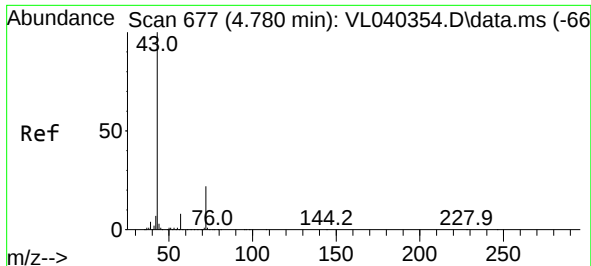
Tgt Ion: 84 Resp: 2683
Ion Ratio Lower Upper
84 100
56 0.0 107.0 160.6#
41 276.4 66.7 100.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Tgt Ion: 114 Resp: 2732665
Ion Ratio Lower Upper
114 100
63 24.8 21.4 32.0
88 17.6 14.6 22.0

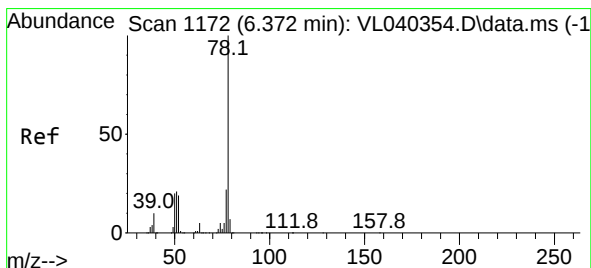
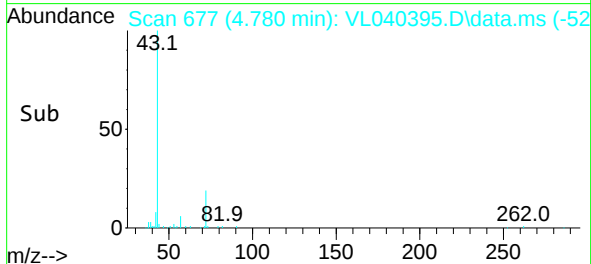
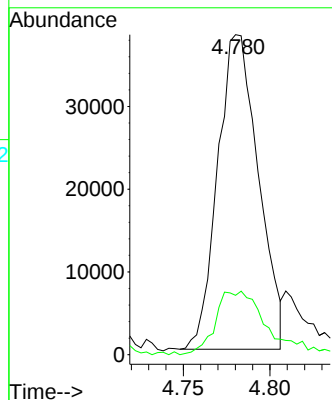
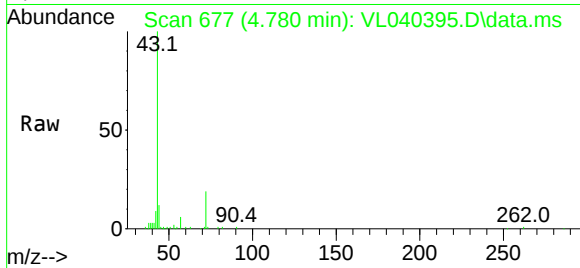




#34
2-Butanone
Concen: 0.423 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

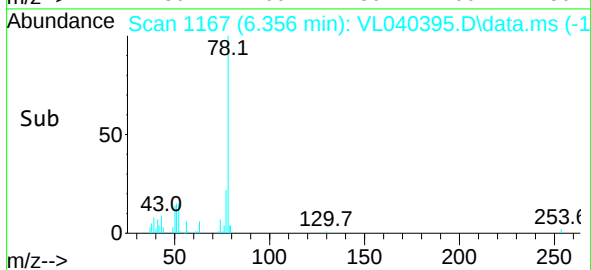
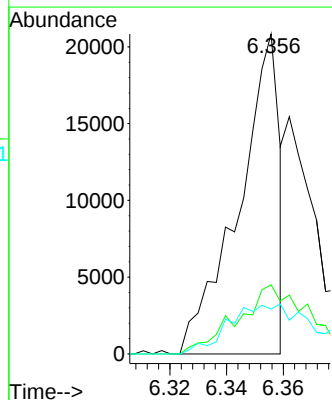
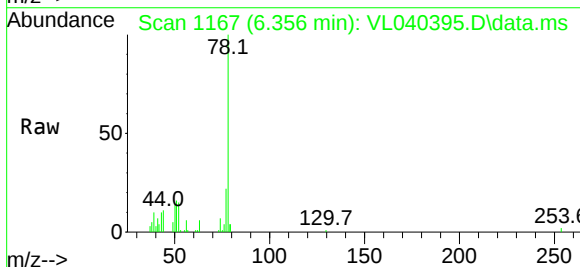
Instrument :
MSVOA_L
ClientSampleId :

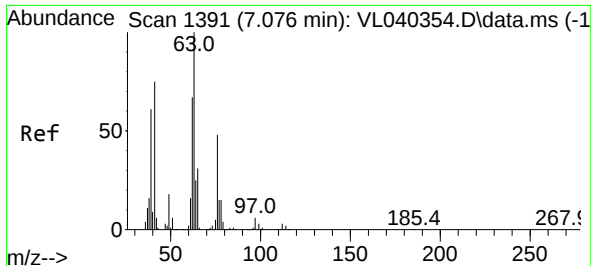
Tgt Ion: 43 Resp: 62341
Ion Ratio Lower Upper
43 100
72 26.6 18.4 27.6



#36
Benzene
Concen: 0.093 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Tgt Ion: 78 Resp: 20838
Ion Ratio Lower Upper
78 100
77 21.6 17.8 26.8
50 14.0 15.6 23.4#





#39

1,2-Dichloropropane

Concen: 7.627 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.437 min

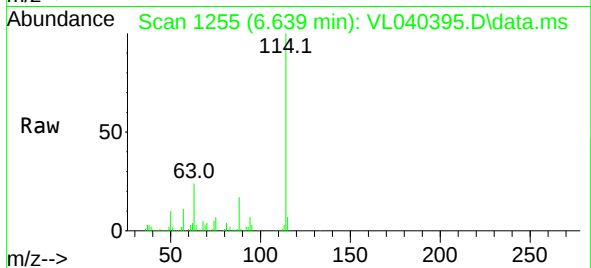
Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

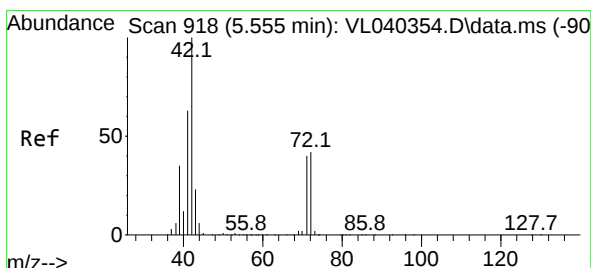
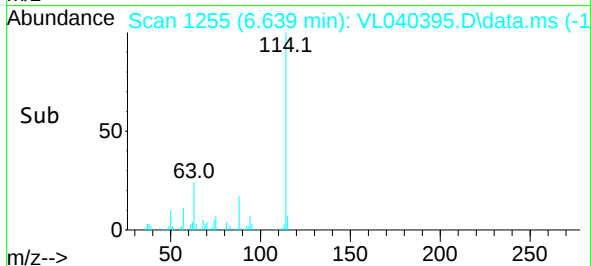
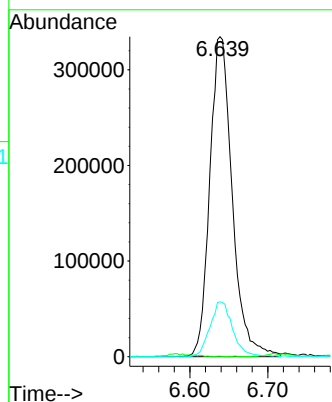
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	63	Resp:	669091
Ion Ratio	Lower	Upper	
63	100		
41	0.0	59.6	89.4#
62	17.2	53.9	80.9#



#41

Tetrahydrofuran

Concen: 0.059 ppbv

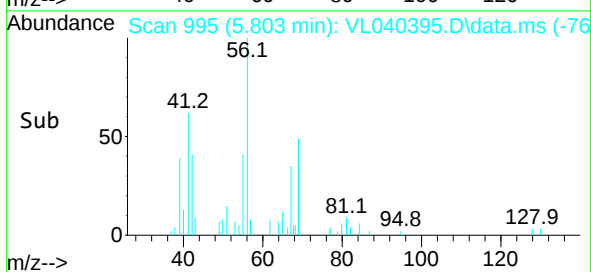
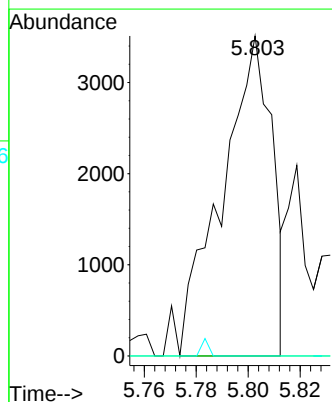
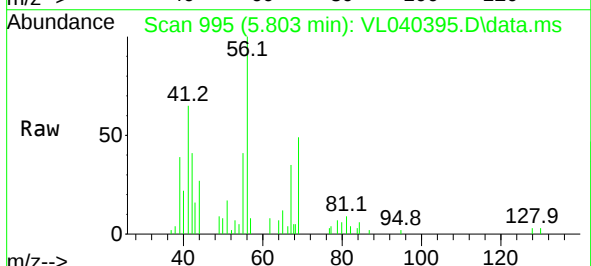
RT: 5.803 min Scan# 995

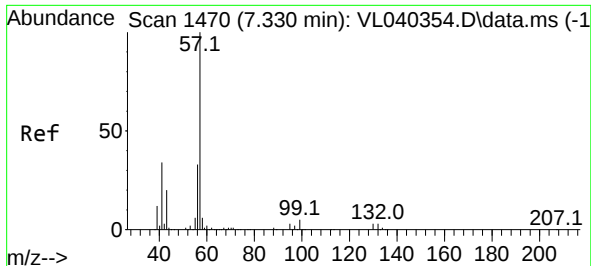
Delta R.T. 0.248 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

Tgt Ion:	42	Resp:	4725
Ion Ratio	Lower	Upper	
42	100		
72	0.0	33.7	50.5#
71	0.0	32.2	48.2#





#44

2,2,4-Trimethylpentane

Concen: 0.052 ppbv

RT: 7.320 min Scan# 14

Delta R.T. -0.010 min

Lab File: VL040395.D

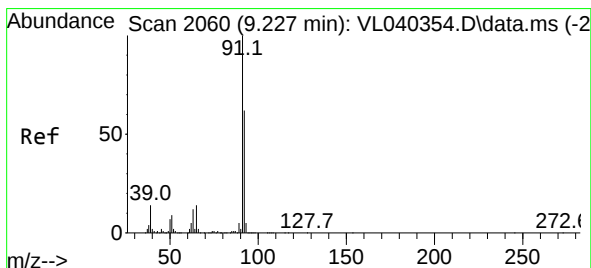
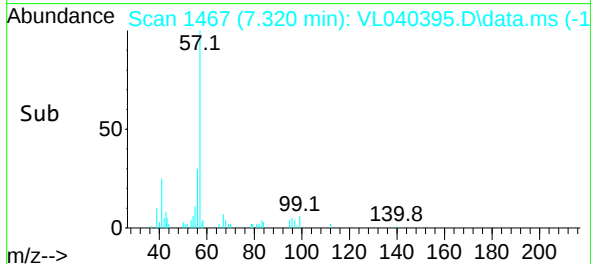
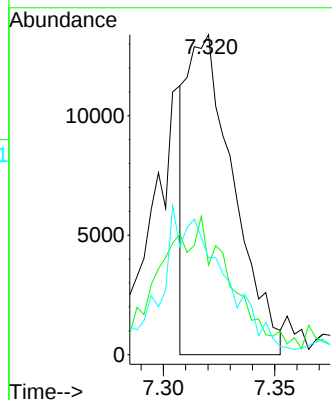
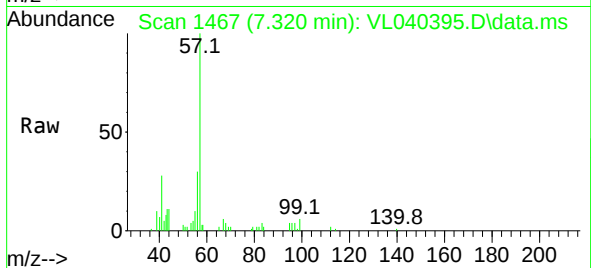
Acq: 20 Apr 2023 00:58

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 57	Resp: 19408
Ion Ratio	Lower Upper
57 100	
41 75.9	26.9 40.3#
56 0.0	25.1 37.7#



#53

Toluene

Concen: 0.333 ppbv

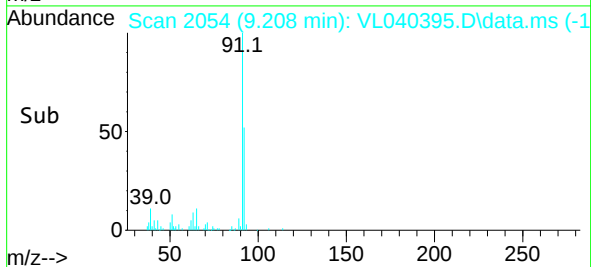
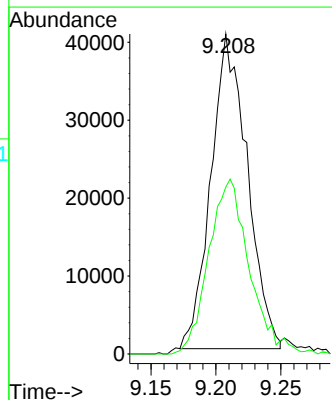
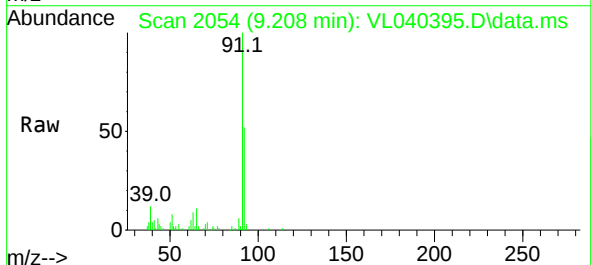
RT: 9.208 min Scan# 2054

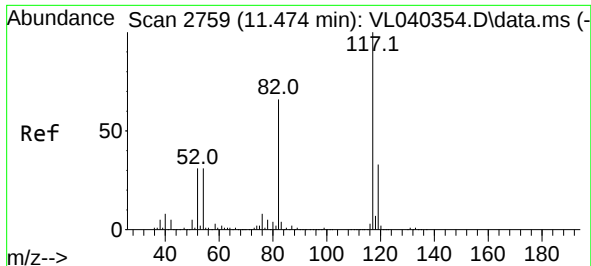
Delta R.T. -0.019 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

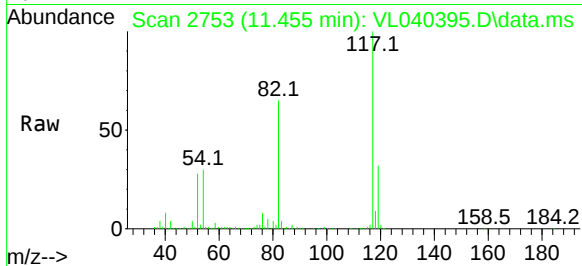
Tgt Ion: 91	Resp: 78644
Ion Ratio	Lower Upper
91 100	
92 62.1	48.9 73.3



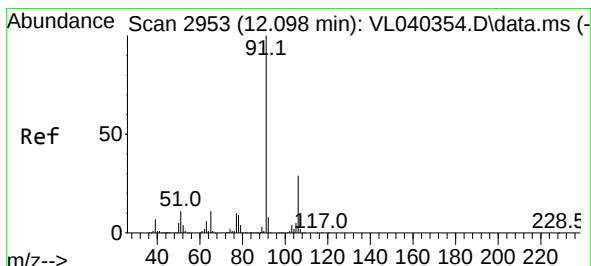
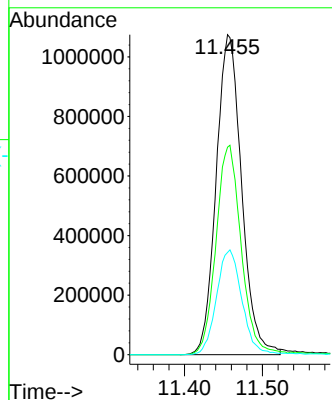
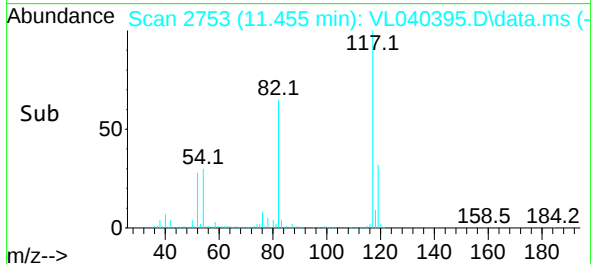


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Instrument :
MSVOA_L
ClientSampleId :

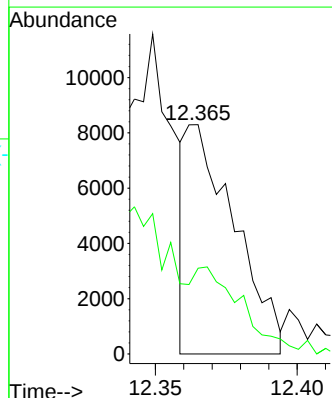
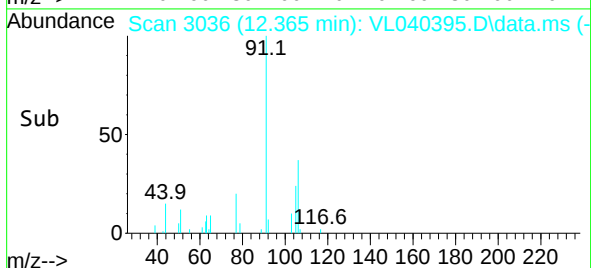
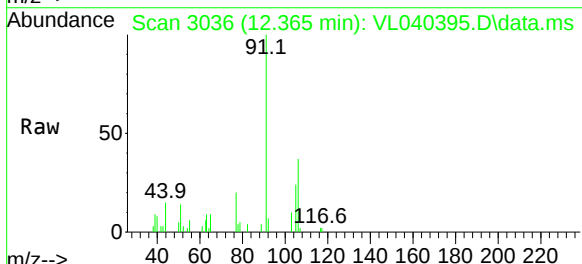


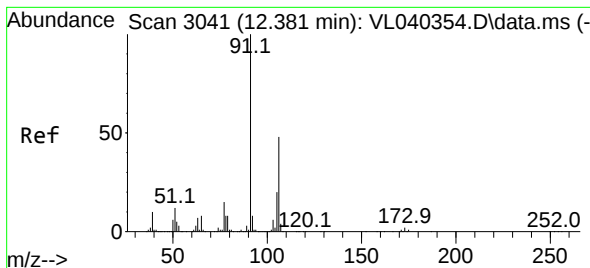
Tgt Ion:117 Resp: 2438044
Ion Ratio Lower Upper
117 100
82 65.8 52.5 78.7
119 33.3 24.3 36.5



#58
Ethyl Benzene
Concen: 0.033 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. 0.267 min
Lab File: VL040395.D
Acq: 20 Apr 2023 00:58

Tgt Ion: 91 Resp: 9938
Ion Ratio Lower Upper
91 100
106 34.2 23.5 35.3





#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 12.365 min Scan# 3041

Delta R.T. -0.016 min

Lab File: VL040395.D

Acq: 20 Apr 2023 00:58

Instrument :

MSVOA_L

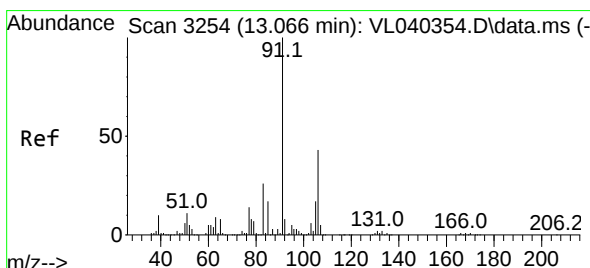
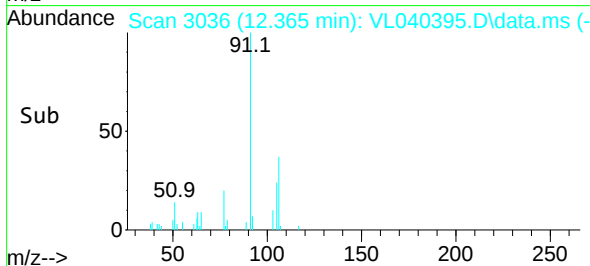
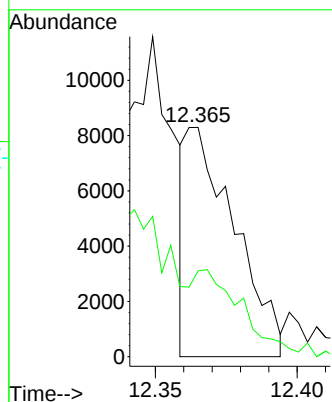
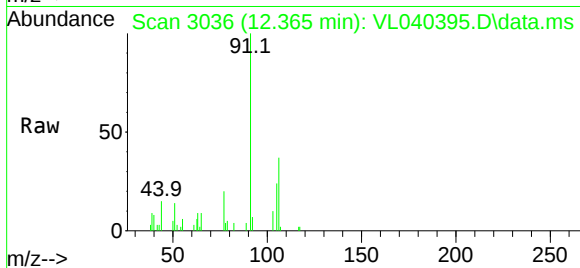
ClientSampleId :

Tgt Ion: 91 Resp: 9938

Ion Ratio Lower Upper

91 100

106 0.0 34.7 52.1#



#60

o-Xylene

Concen: 0.039 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.016 min

Lab File: VL040395.D

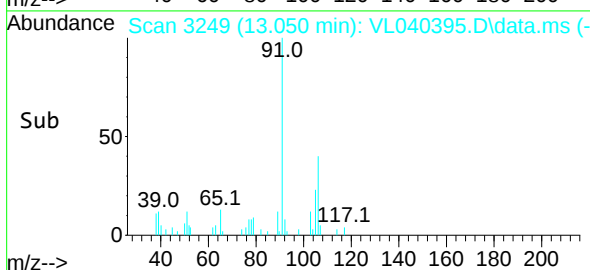
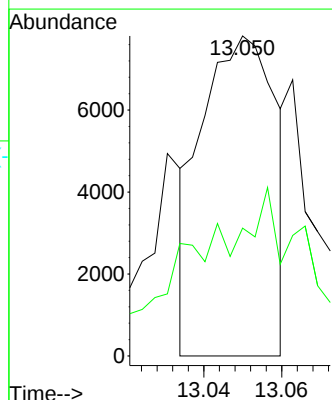
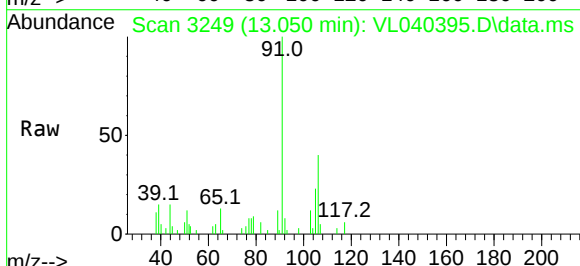
Acq: 20 Apr 2023 00:58

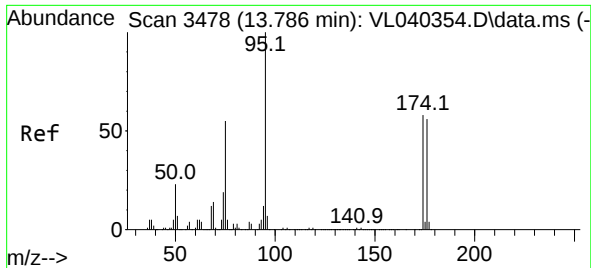
Tgt Ion: 91 Resp: 10264

Ion Ratio Lower Upper

91 100

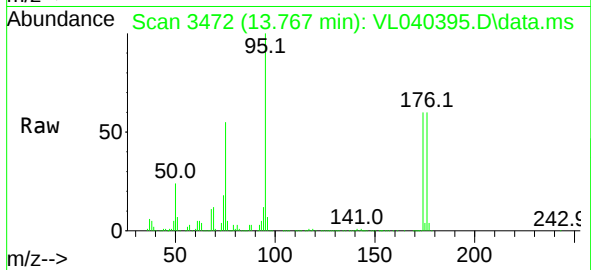
106 0.0 21.9 65.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.591 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. -0.019 min
 Lab File: VL040395.D
 Acq: 20 Apr 2023 00:58

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1933561

Ion	Ratio	Lower	Upper
95	100		
174	62.2	47.2	70.8
175	4.4	3.5	5.3

