

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040391.D
 Acq On : 19 Apr 2023 22:23
 Operator : SY/MD
 Sample : 02410-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417DL

Quant Time: Apr 20 07:49:17 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)

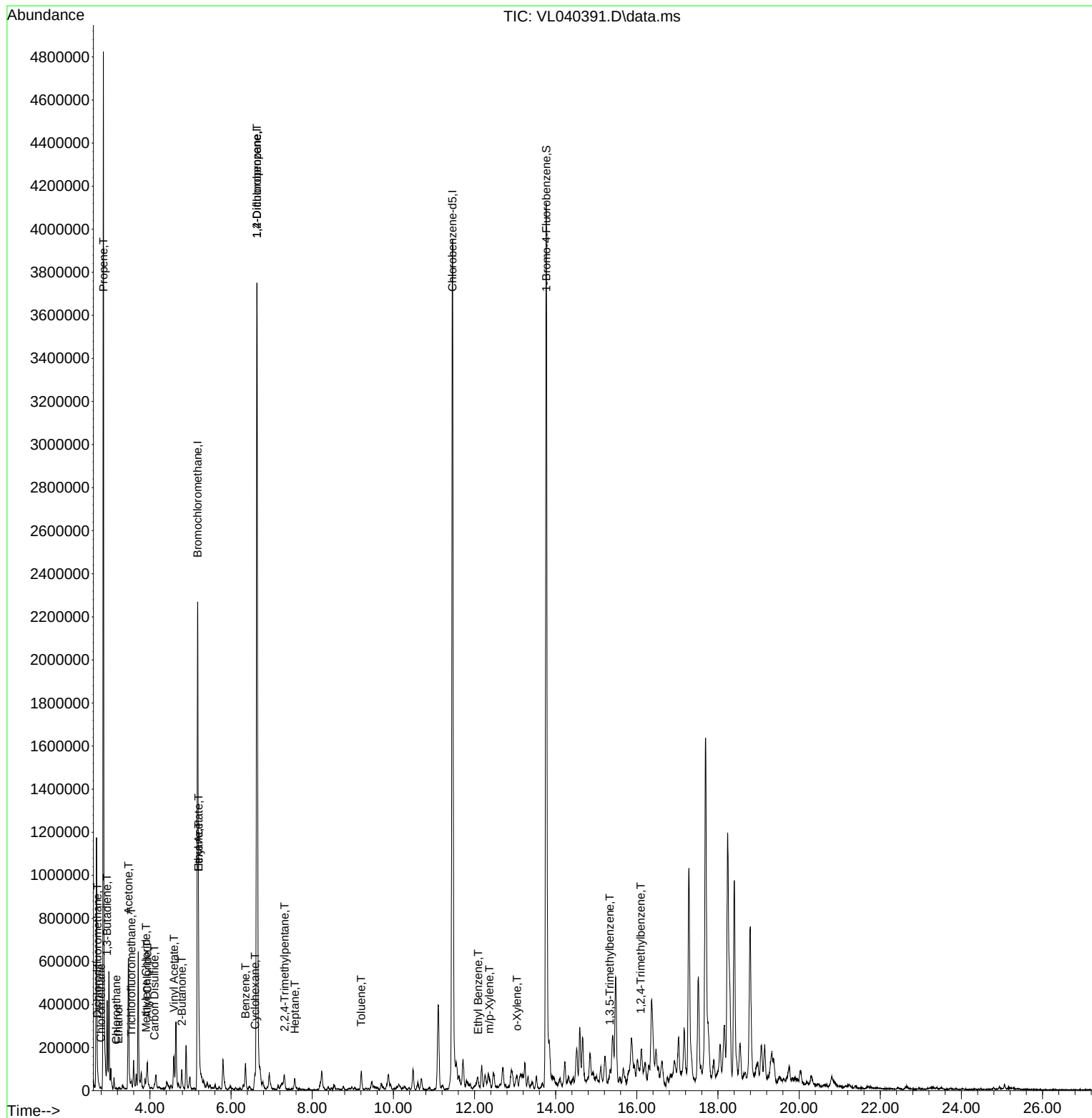
Internal Standards						
1) Bromochloromethane	5.176	49	1126682	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	2958913	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.455	117	2686141	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2135574	9.614	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.707	85	6543	0.032	ppbv	99
4) Chloromethane	2.793	50	6596	0.071	ppbv #	80
7) Chloroethane	3.173	64	1991	0.068	ppbv #	66
9) Propene	2.851	41	1375566	23.650	ppbv	95
10) Heptane	7.568	43	19740	0.149	ppbv	93
11) Trichlorofluoromethane	3.542	101	13469	0.065	ppbv #	77
13) Ethanol	3.224	45	924	0.190	ppbv #	37
15) Acetone	3.469	43	325813	2.042	ppbv	90
16) 1,3-Butadiene	2.944	39	103632	1.569	ppbv #	25
20) Methylene Chloride	3.909	84	17759	0.279	ppbv	87
21) Allyl Chloride	3.938	41	6916	0.076	ppbv #	19
23) Vinyl Acetate	4.591	43	40886	1.006	ppbv #	1
25) Ethyl Acetate	5.198	43	76715	0.286	ppbv #	77
26) Hexane	5.198	57	111864	0.988	ppbv #	38
27) Carbon Disulfide	4.108	76	17151	0.117	ppbv #	69
30) Cyclohexane	6.587	84	16160	0.184	ppbv #	42
34) 2-Butanone	4.787	43	101984	0.639	ppbv	97
36) Benzene	6.356	78	99008	0.410	ppbv	99
39) 1,2-Dichloropropane	6.639	63	719585	7.575	ppbv #	24
44) 2,2,4-Trimethylpentane	7.317	57	18860	0.047	ppbv #	1
53) Toluene	9.208	91	61346	0.240	ppbv	98
58) Ethyl Benzene	12.086	91	10126	0.031	ppbv	100
59) m/p-Xylene	12.365	91	15656	0.052	ppbv #	32
60) o-Xylene	13.050	91	38750	0.133	ppbv	93
73) 1,3,5-Trimethylbenzene	15.336	105	14814	0.050	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.095	105	19138	0.056	ppbv #	60

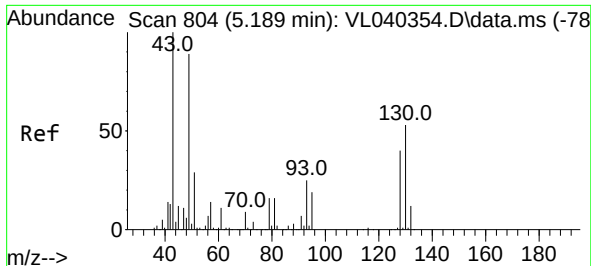
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SV-02-20230417DL

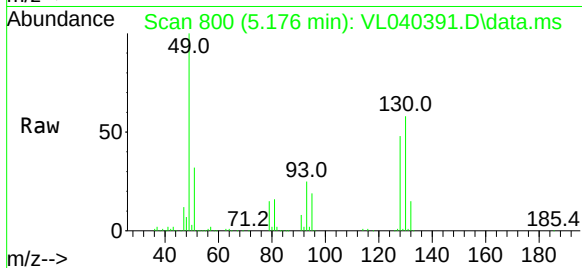
Quant Time: Apr 20 07:49:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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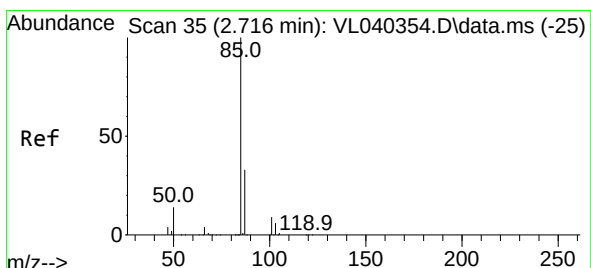
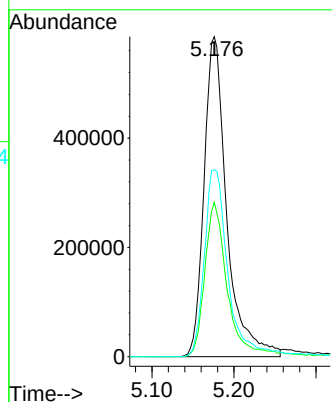
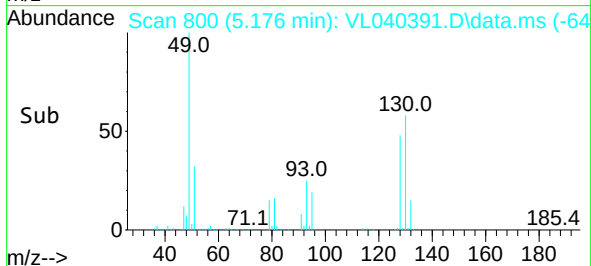


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

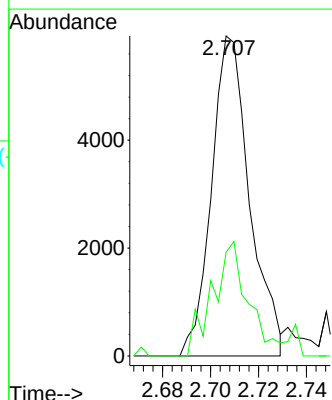
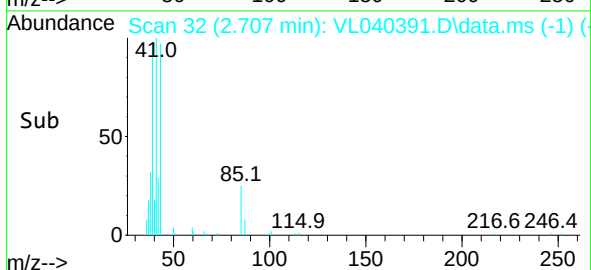
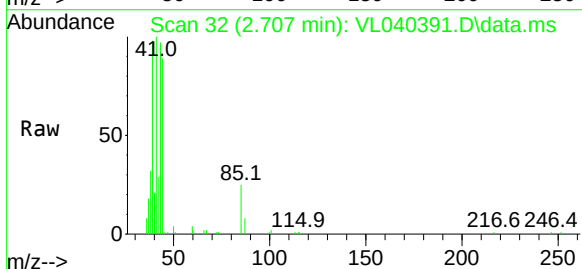


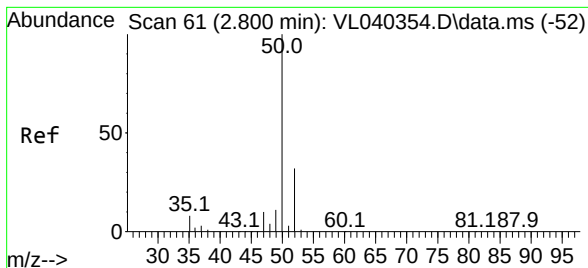
Tgt Ion: 49 Resp: 1126682
Ion Ratio Lower Upper
49 100
128 48.3 23.7 71.1
130 63.4 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.032 ppbv
RT: 2.707 min Scan# 32
Delta R.T. -0.010 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 85 Resp: 6543
Ion Ratio Lower Upper
85 100
87 32.5 26.6 40.0





#4

Chloromethane

Concen: 0.071 ppbv

RT: 2.793 min Scan# 51

Delta R.T. -0.007 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

Instrument :

MSVOA_L

ClientSampleId :

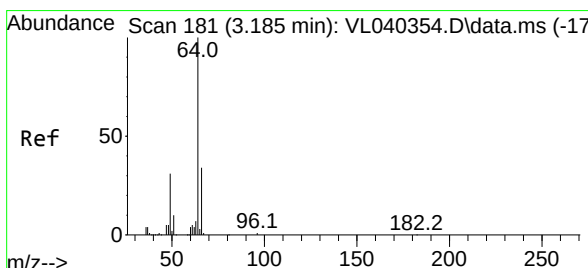
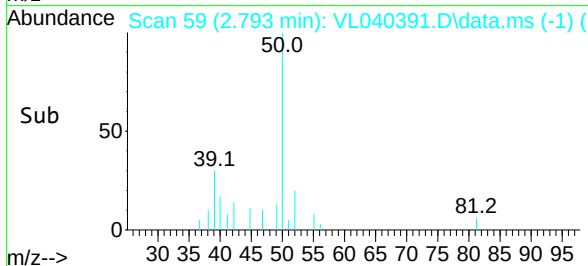
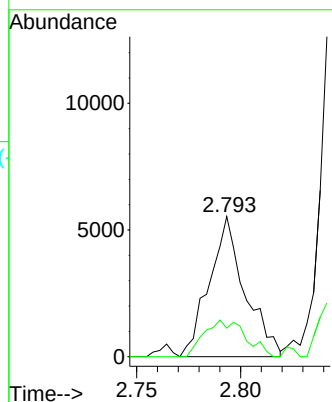
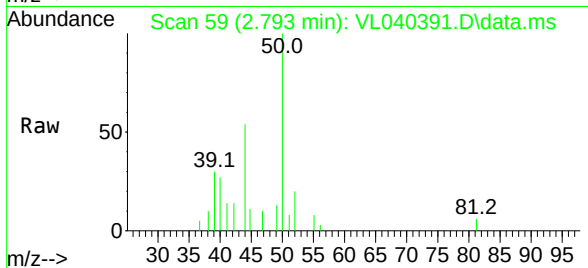
SV-02-20230417DL

Tgt Ion: 50 Resp: 6596

Ion Ratio Lower Upper

50 100

52 20.3 25.3 37.9#



#7

Chloroethane

Concen: 0.068 ppbv

RT: 3.173 min Scan# 177

Delta R.T. -0.012 min

Lab File: VL040391.D

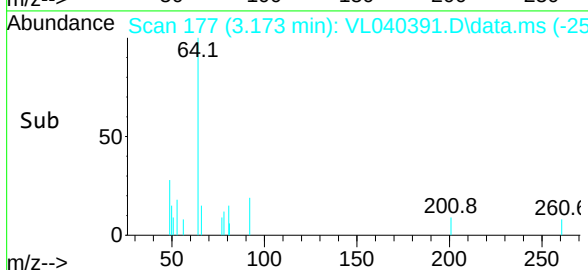
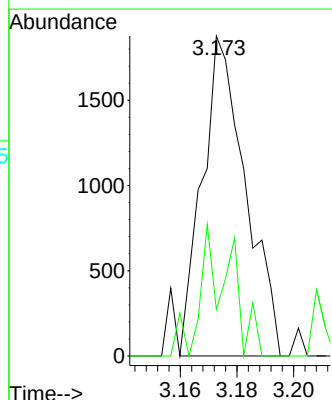
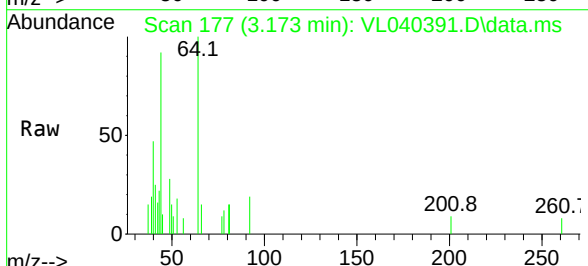
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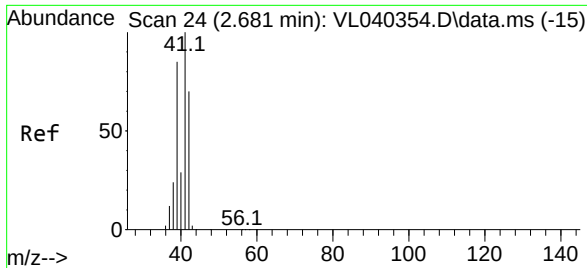
Tgt Ion: 64 Resp: 1991

Ion Ratio Lower Upper

64 100

66 14.5 27.5 41.3#

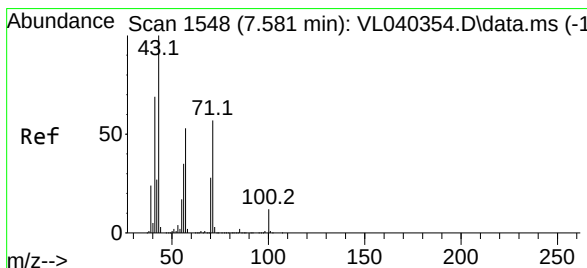
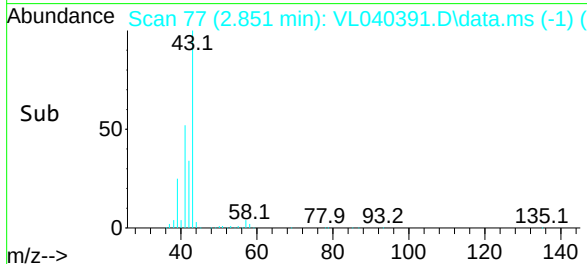
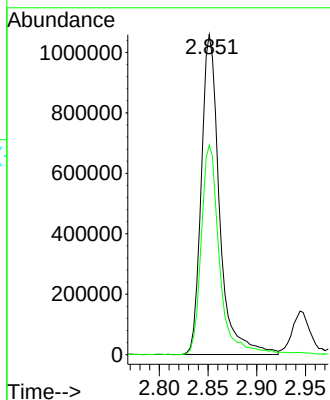
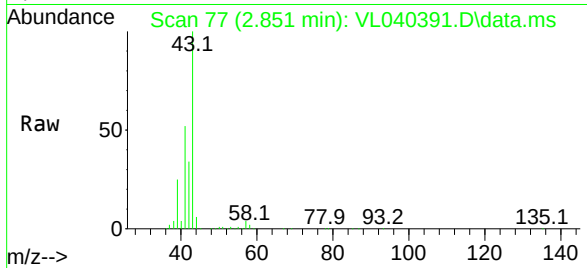




#9
 Propene
 Concen: 23.650 ppbv
 RT: 2.851 min Scan# 71
 Delta R.T. 0.170 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

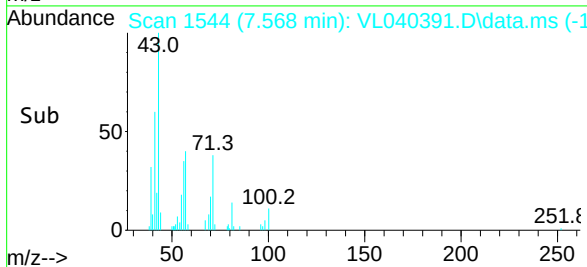
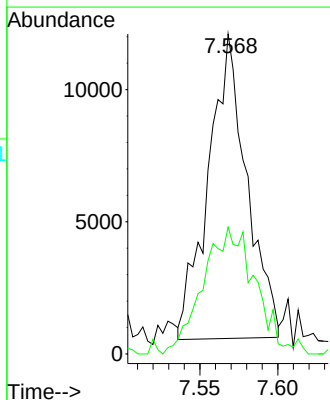
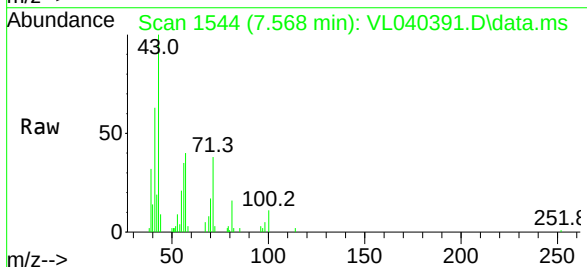
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417DL

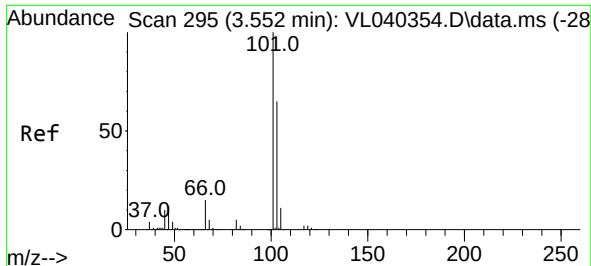
Tgt Ion: 41 Resp: 1375566
 Ion Ratio Lower Upper
 41 100
 42 66.3 56.5 84.7



#10
 Heptane
 Concen: 0.149 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. -0.013 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

Tgt Ion: 43 Resp: 19740
 Ion Ratio Lower Upper
 43 100
 57 58.0 42.2 63.4

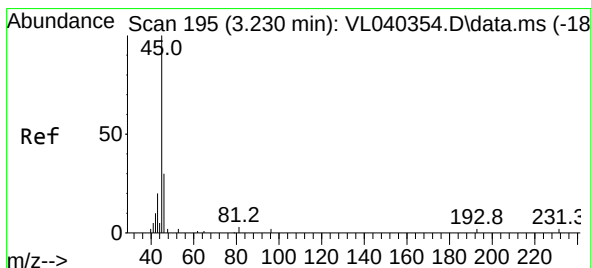
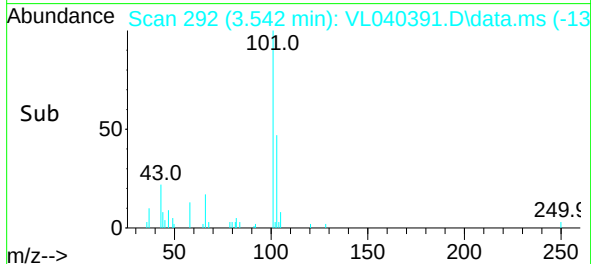
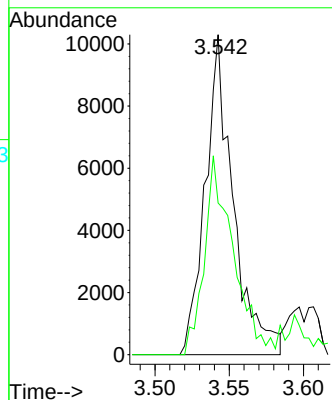
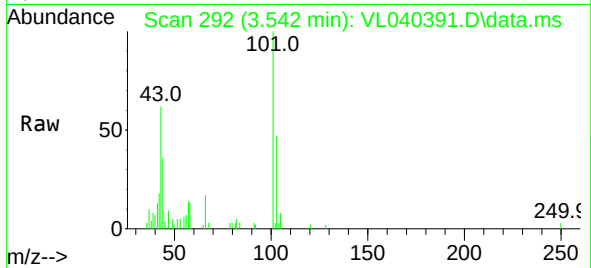




#11
 Trichlorofluoromethane
 Concen: 0.065 ppbv
 RT: 3.542 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

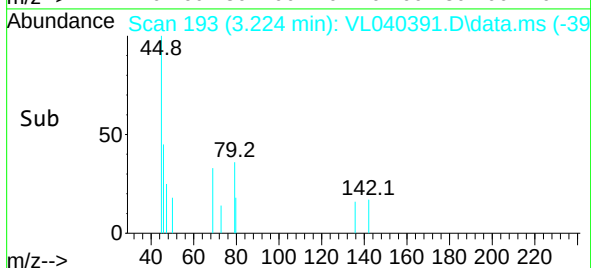
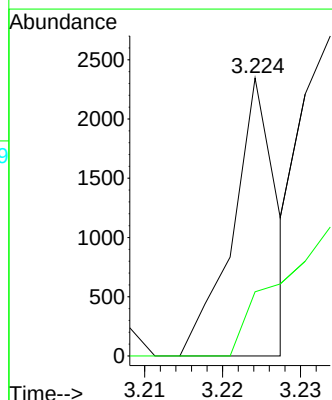
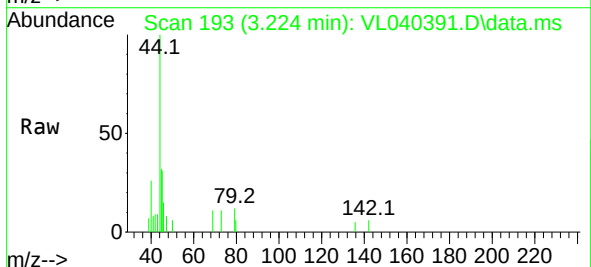
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 ClientSampleId :
 SV-02-20230417DL

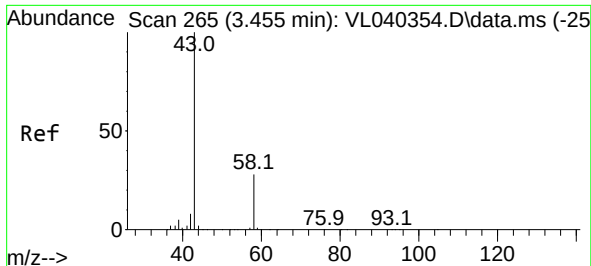
Tgt Ion:101 Resp: 13469
 Ion Ratio Lower Upper
 101 100
 103 47.4 52.2 78.4#



#13
 Ethanol
 Concen: 0.190 ppbv
 RT: 3.224 min Scan# 193
 Delta R.T. -0.006 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

Tgt Ion: 45 Resp: 924
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.3#





#15

Acetone

Concen: 2.042 ppbv

RT: 3.469 min Scan# 2

Delta R.T. 0.014 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

Instrument :

MSVOA_L

ClientSampleId :

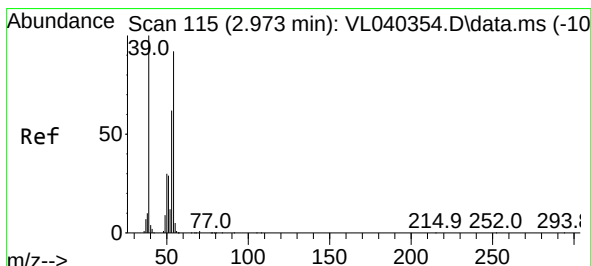
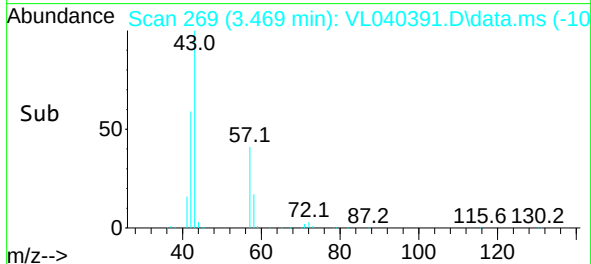
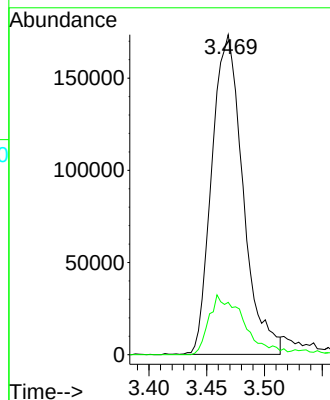
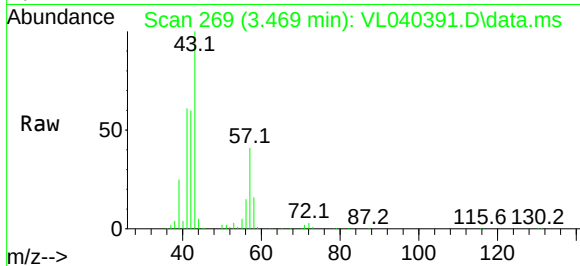
SV-02-20230417DL

Tgt Ion: 43 Resp: 325813

Ion Ratio Lower Upper

43 100

58 22.6 22.2 33.2



#16

1,3-Butadiene

Concen: 1.569 ppbv

RT: 2.944 min Scan# 106

Delta R.T. -0.029 min

Lab File: VL040391.D

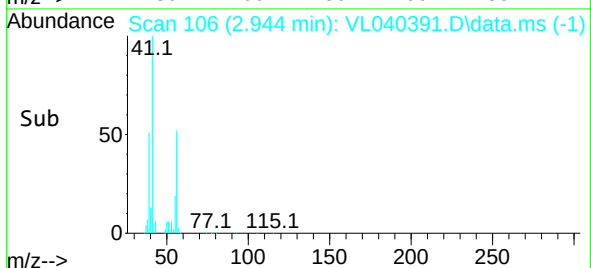
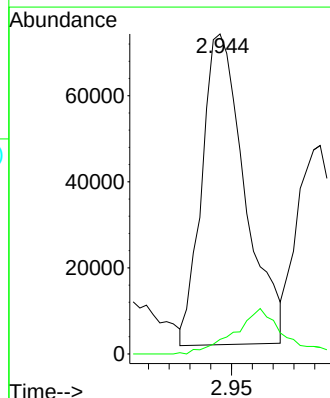
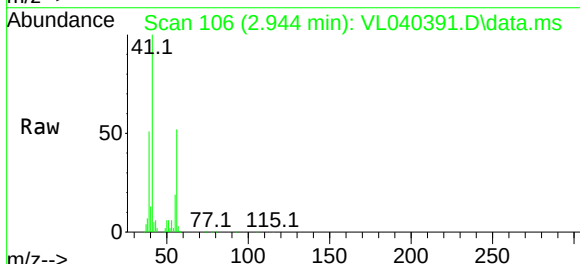
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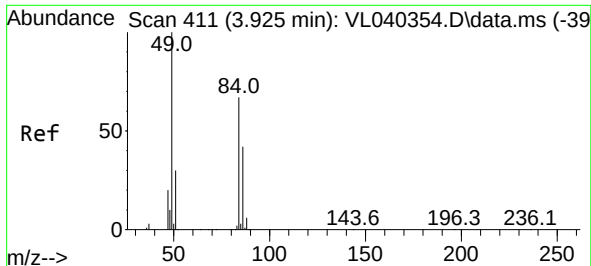
Tgt Ion: 39 Resp: 103632

Ion Ratio Lower Upper

39 100

54 17.0 68.8 103.2#





#20

Methylene Chloride

Concen: 0.279 ppbv

RT: 3.909 min Scan# 411

Delta R.T. -0.016 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

Instrument :

MSVOA_1

ClientSampleId :

SV-02-20230417DL

Tgt Ion: 84 Resp: 17759

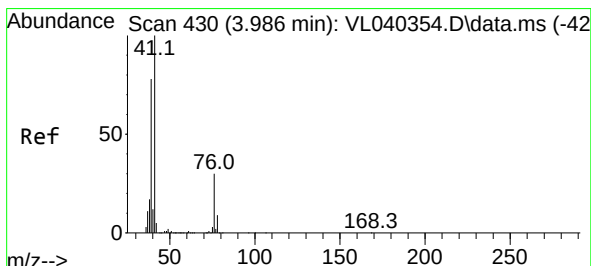
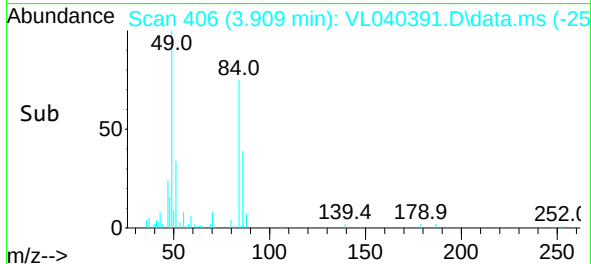
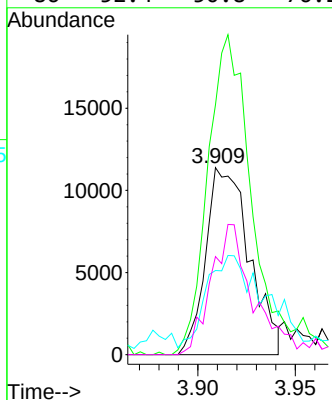
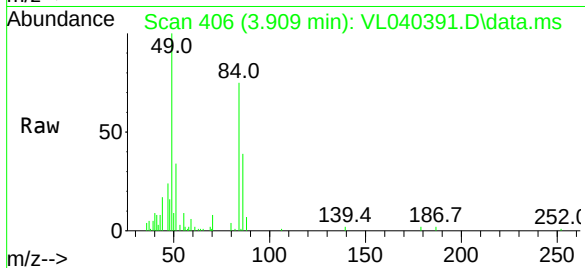
Ion Ratio Lower Upper

84 100

49 131.0 120.1 180.1

51 41.3 36.3 54.5

86 52.4 50.8 76.2



#21

Allyl Chloride

Concen: 0.076 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.048 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

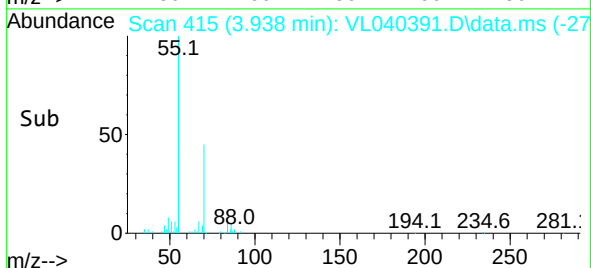
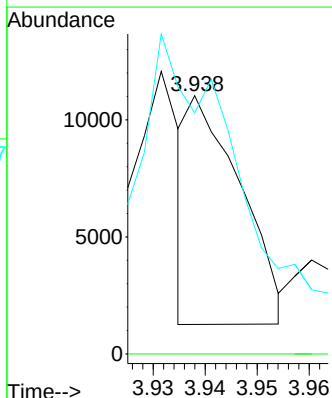
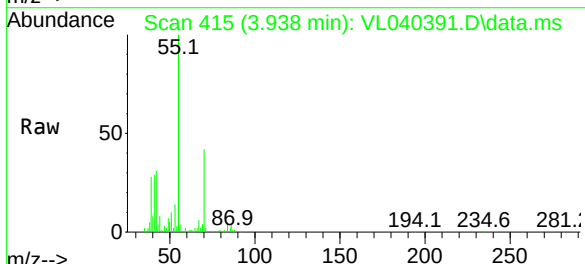
Tgt Ion: 41 Resp: 6916

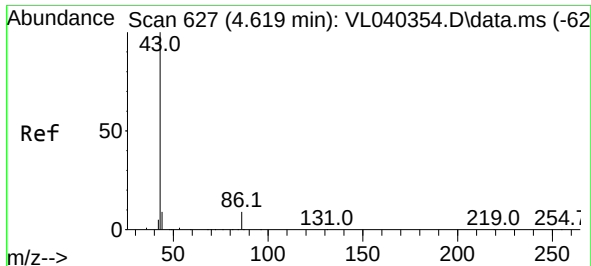
Ion Ratio Lower Upper

41 100

76 0.0 25.5 38.3#

39 0.0 64.0 96.0#

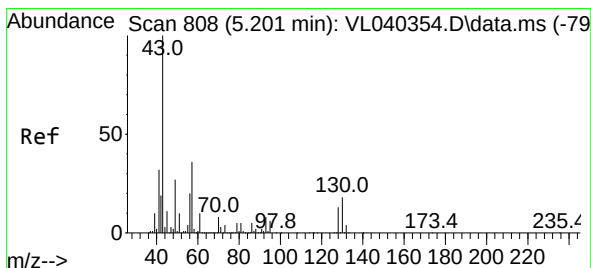
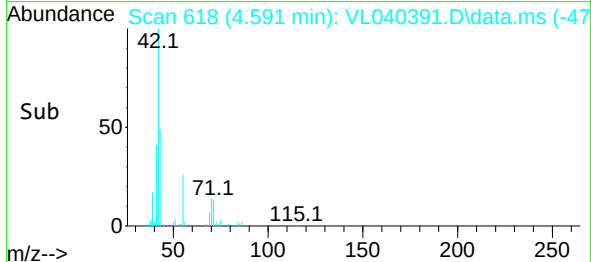
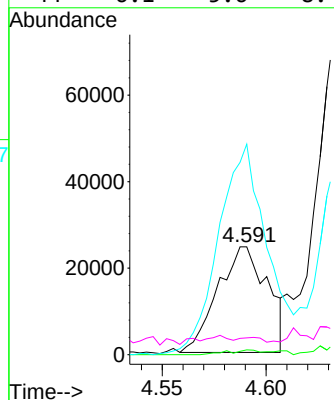
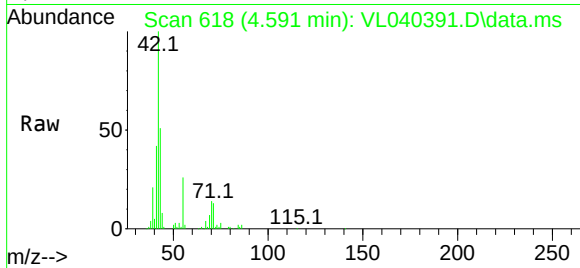




#23
 Vinyl Acetate
 Concen: 1.006 ppbv
 RT: 4.591 min Scan# 618
 Delta R.T. -0.028 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

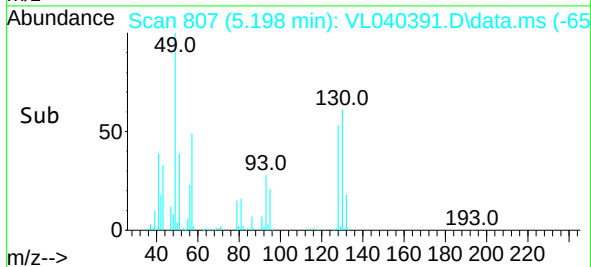
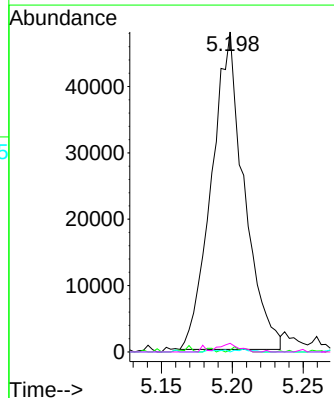
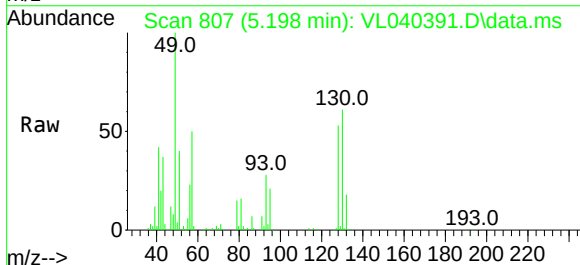
Instrument :
 MSVOA_1
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 SV-02-20230417DL

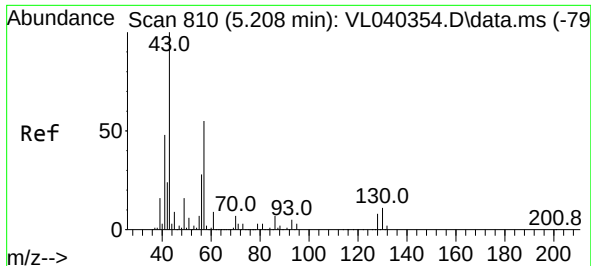
Tgt Ion: 43	Resp: 40886
Ion Ratio	Lower Upper
43 100	
86 4.6	6.0 9.0#
42 193.7	6.4 9.6#
44 6.1	5.6 8.4



#25
 Ethyl Acetate
 Concen: 0.286 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.003 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

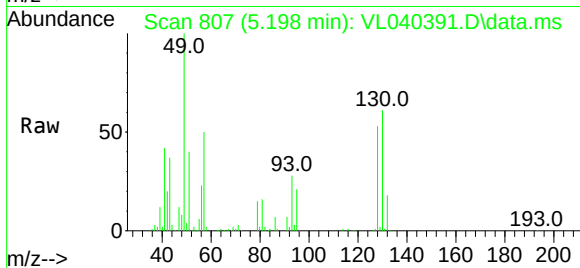
Tgt Ion: 43	Resp: 76715
Ion Ratio	Lower Upper
43 100	
45 1.5	8.5 12.7#
61 0.6	8.5 12.7#
70 2.0	6.1 9.1#



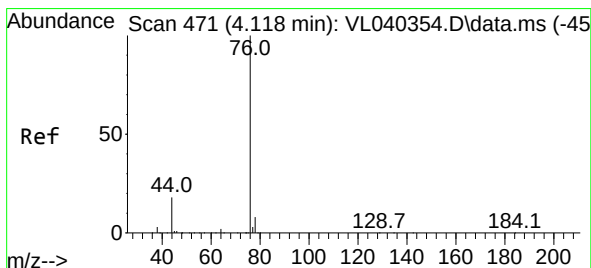
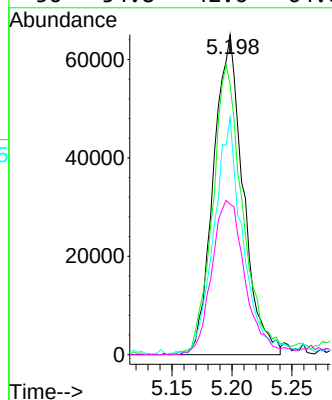
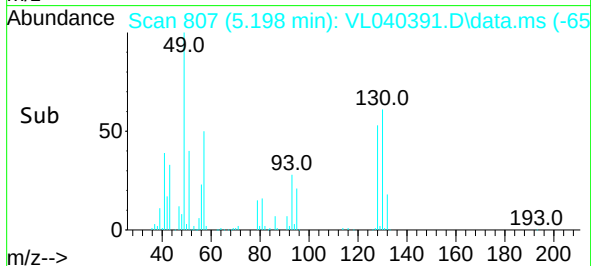


#26
Hexane
Concen: 0.988 ppbv
RT: 5.198 min Scan# 810
Delta R.T. -0.010 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

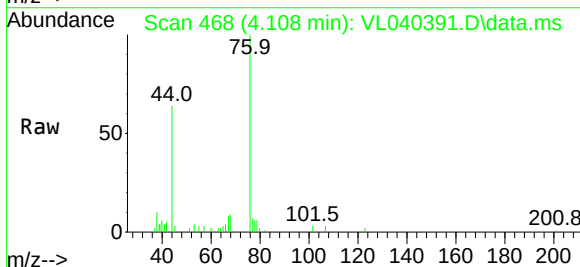
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL



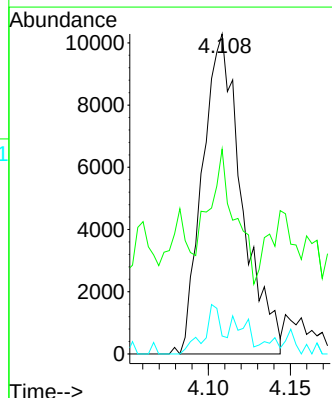
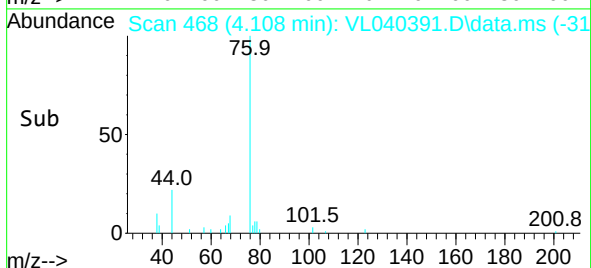
Tgt Ion: 57 Resp: 111864
Ion Ratio Lower Upper
57 100
41 94.7 74.8 112.2
43 73.7 192.7 289.1#
56 54.8 42.6 64.0

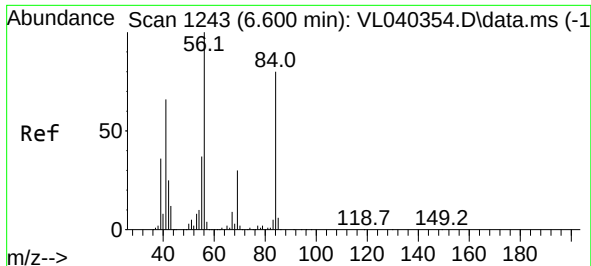


#27
Carbon Disulfide
Concen: 0.117 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23



Tgt Ion: 76 Resp: 17151
Ion Ratio Lower Upper
76 100
44 38.1 14.7 22.1#
78 11.9 7.7 11.5#

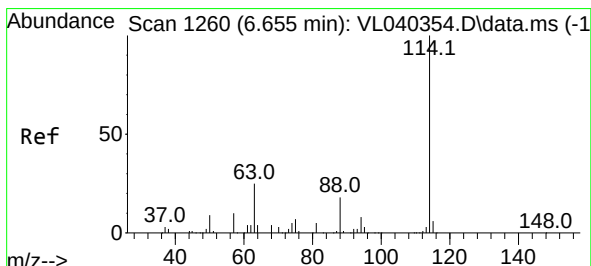
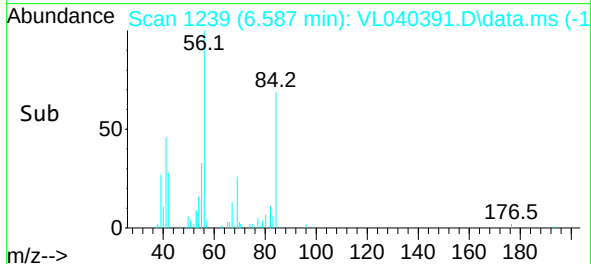
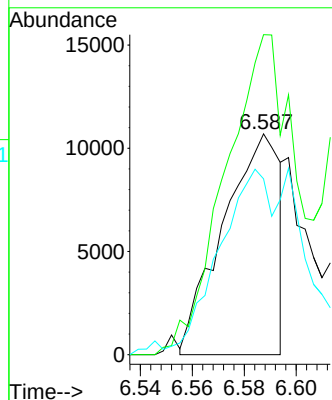
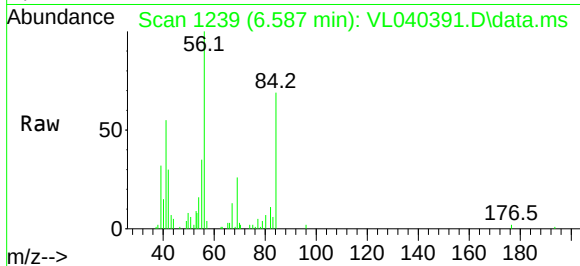




#30
Cyclohexane
Concen: 0.184 ppbv
RT: 6.587 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

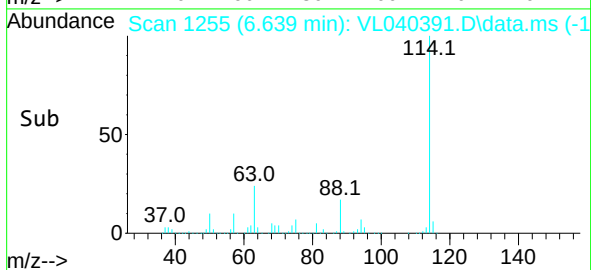
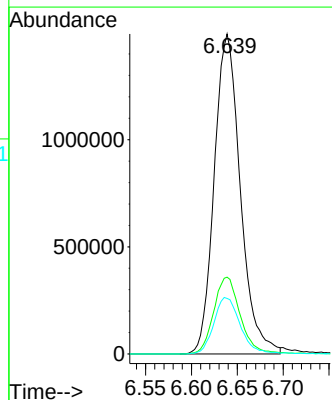
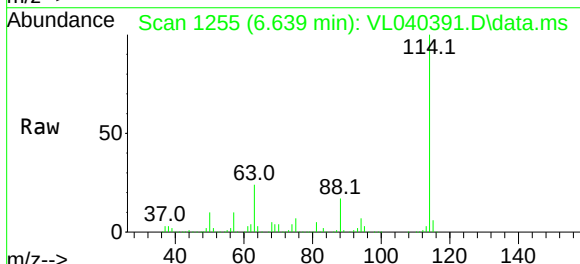
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

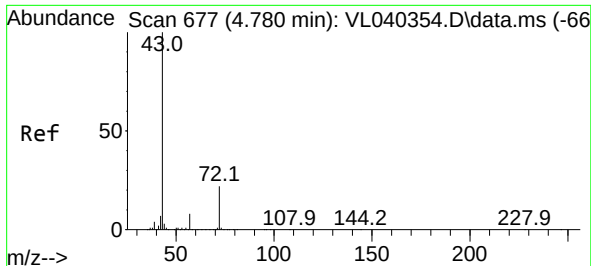
Tgt Ion: 84 Resp: 16160
Ion Ratio Lower Upper
84 100
56 177.9 107.0 160.6#
41 0.0 66.7 100.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 114 Resp: 2958913
Ion Ratio Lower Upper
114 100
63 24.7 21.4 32.0
88 18.1 14.6 22.0

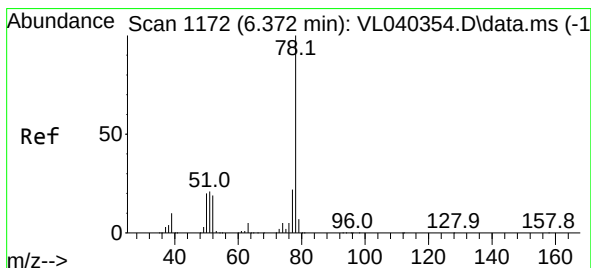
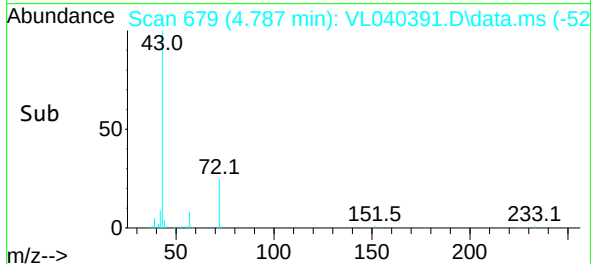
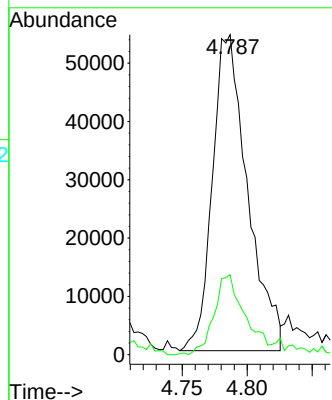
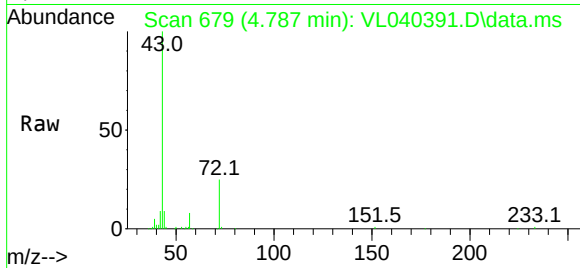




#34
2-Butanone
Concen: 0.639 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

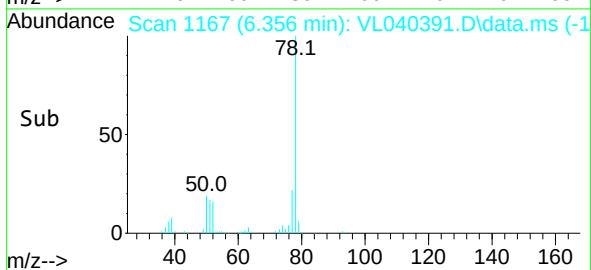
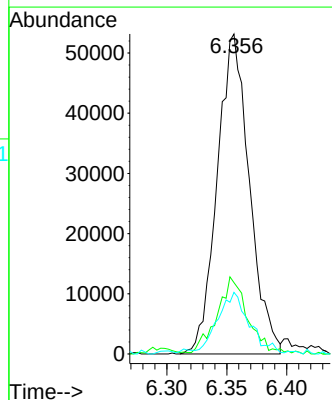
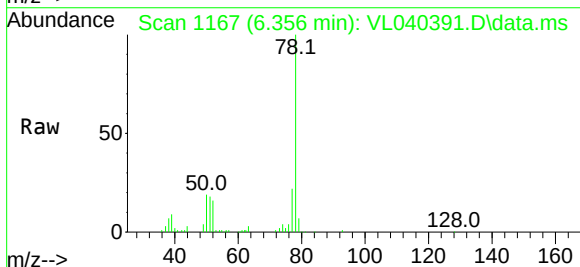
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

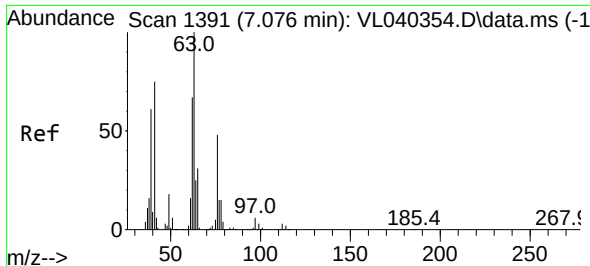
Tgt Ion: 43 Resp: 101984
Ion Ratio Lower Upper
43 100
72 24.7 18.4 27.6



#36
Benzene
Concen: 0.410 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 78 Resp: 99008
Ion Ratio Lower Upper
78 100
77 21.9 17.8 26.8
50 18.7 15.6 23.4





#39

1,2-Dichloropropane

Concen: 7.575 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.437 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

Instrument :

MSVOA_L

ClientSampleId :

SV-02-20230417DL

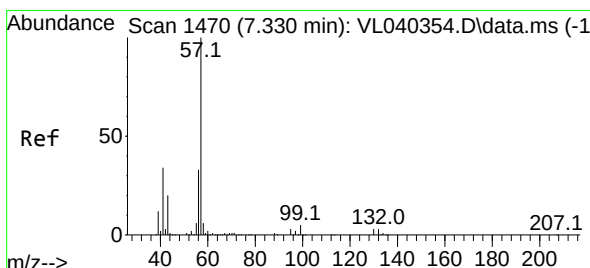
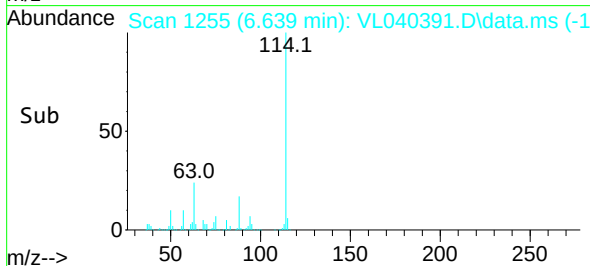
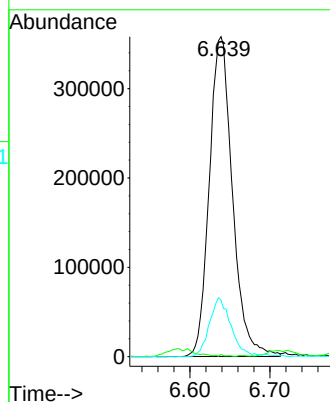
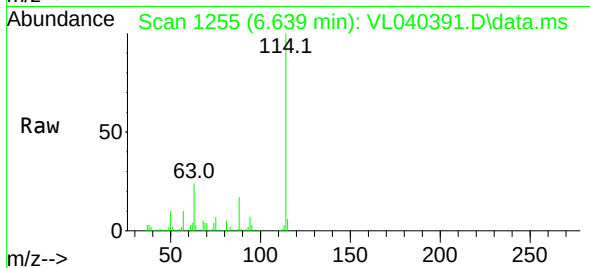
Tgt Ion: 63 Resp: 719585

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.6 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.047 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.013 min

Lab File: VL040391.D

Acq: 19 Apr 2023 22:23

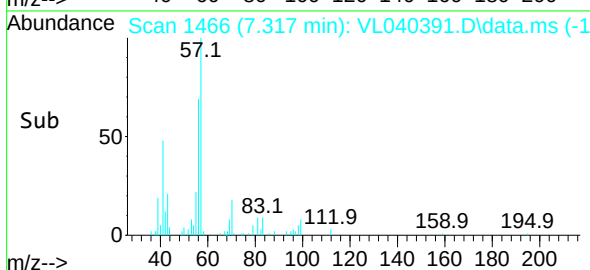
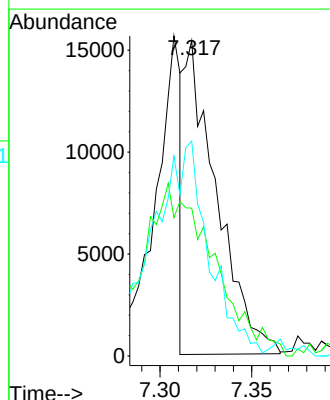
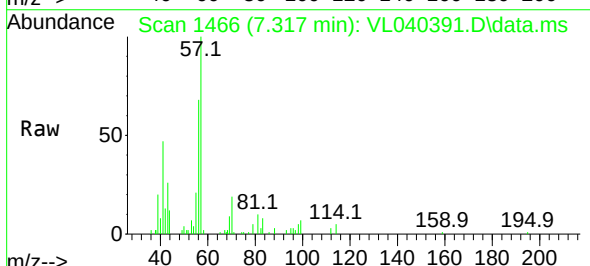
Tgt Ion: 57 Resp: 18860

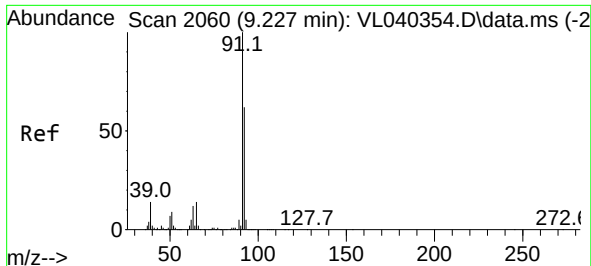
Ion Ratio Lower Upper

57 100

41 0.0 26.9 40.3#

56 122.8 25.1 37.7#

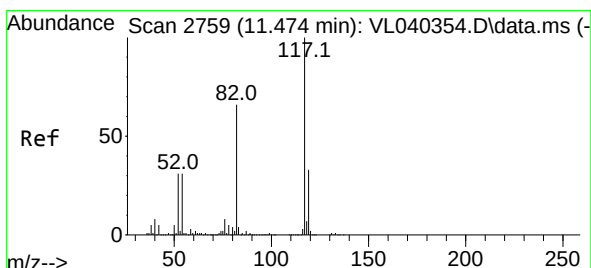
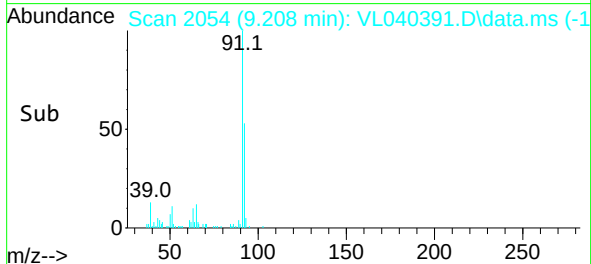
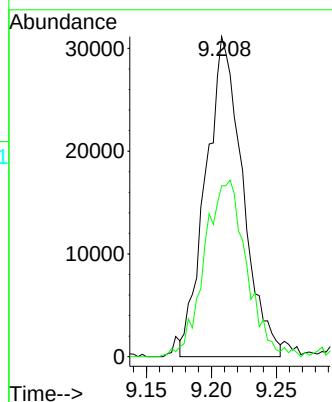
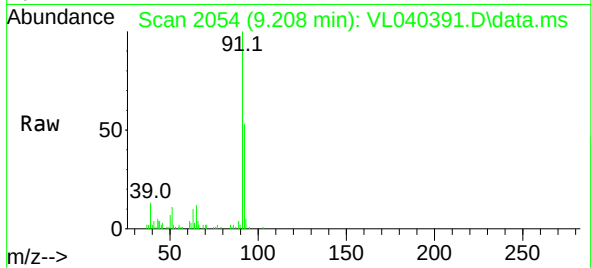




#53
Toluene
Concen: 0.240 ppbv
RT: 9.208 min Scan# 2060
Delta R.T. -0.019 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

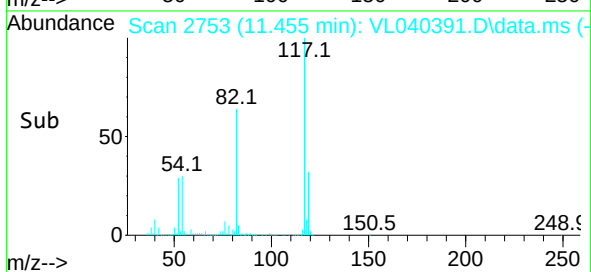
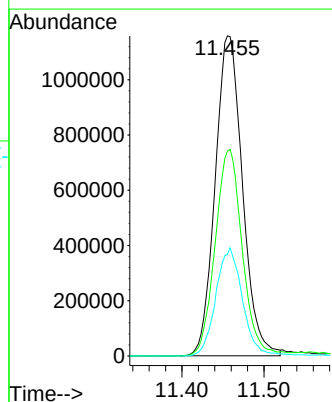
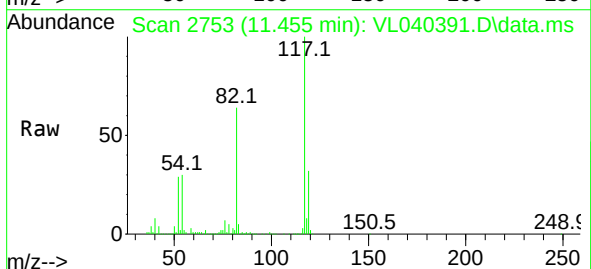
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

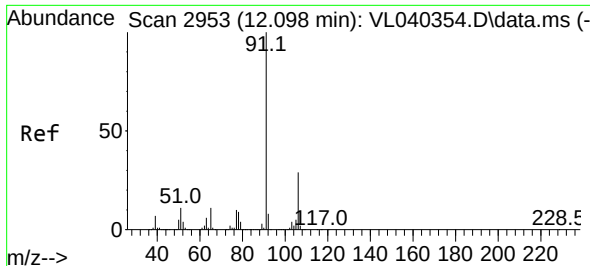
Tgt Ion: 91 Resp: 61346
Ion Ratio Lower Upper
91 100
92 62.9 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.019 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 117 Resp: 2686141
Ion Ratio Lower Upper
117 100
82 64.2 52.5 78.7
119 33.3 24.3 36.5

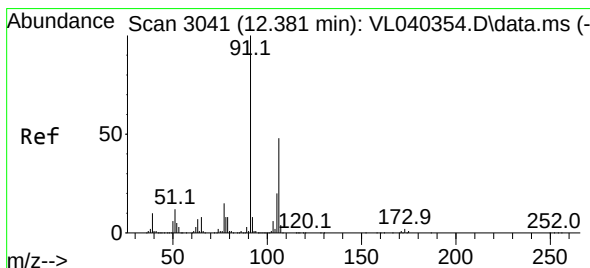
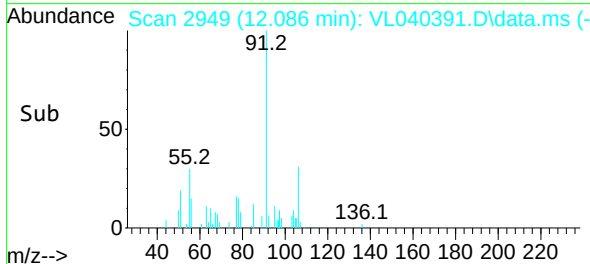
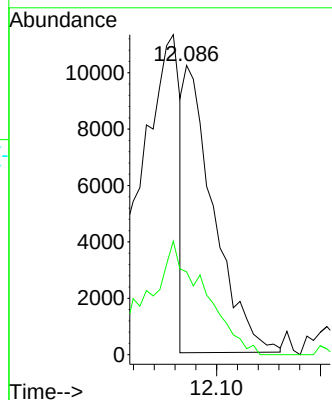
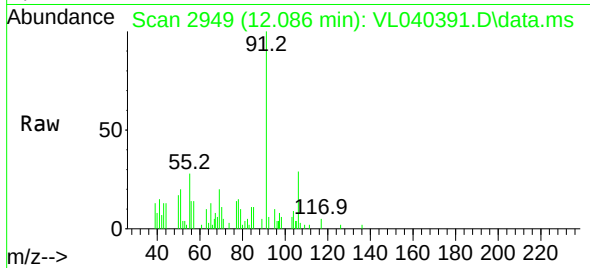




#58
Ethyl Benzene
Concen: 0.031 ppbv
RT: 12.086 min Scan# 2953
Delta R.T. -0.012 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

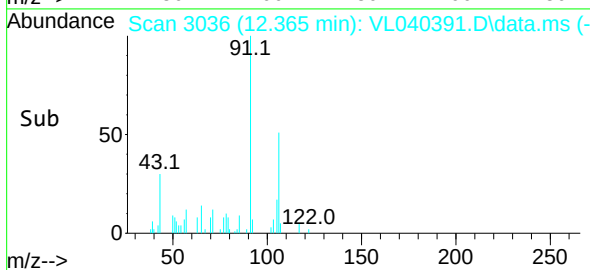
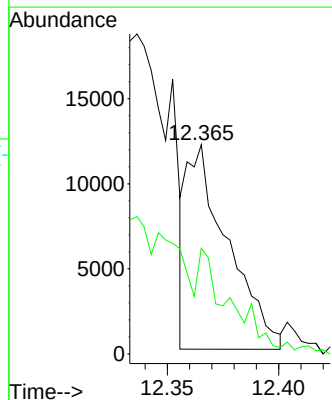
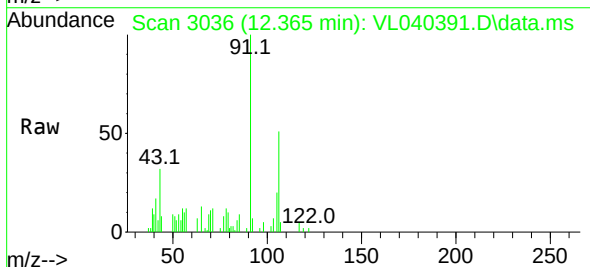
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

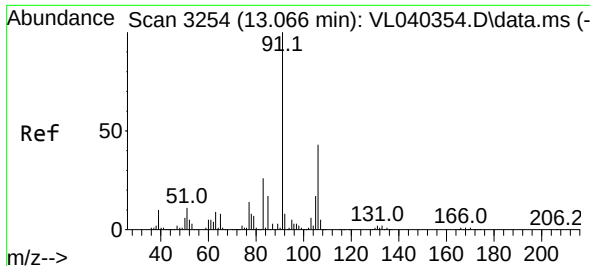
Tgt Ion: 91 Resp: 10126
Ion Ratio Lower Upper
91 100
106 29.3 23.5 35.3



#59
m/p-Xylene
Concen: 0.052 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. -0.016 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 91 Resp: 15656
Ion Ratio Lower Upper
91 100
106 0.0 34.7 52.1#

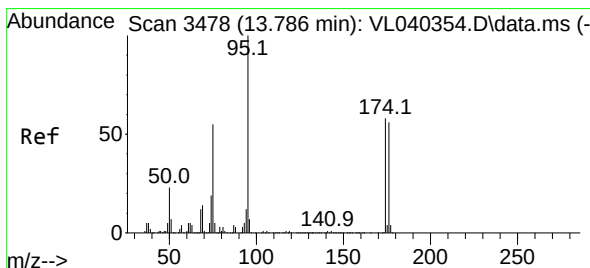
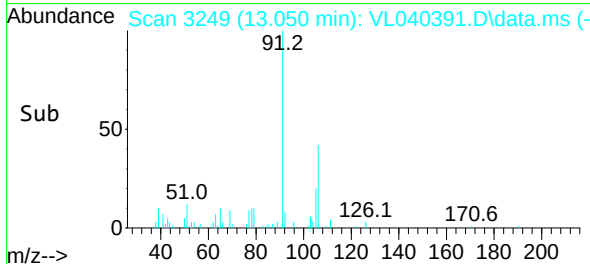
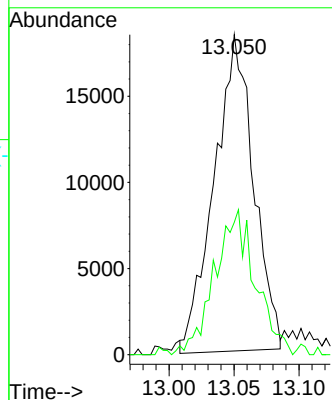
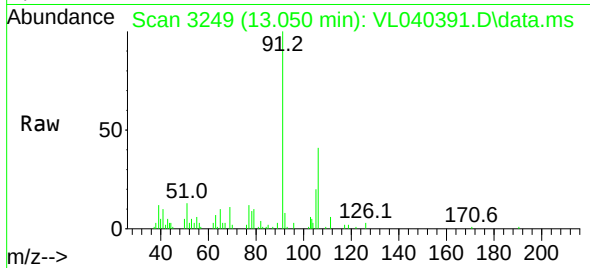




#60
o-Xylene
Concen: 0.133 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

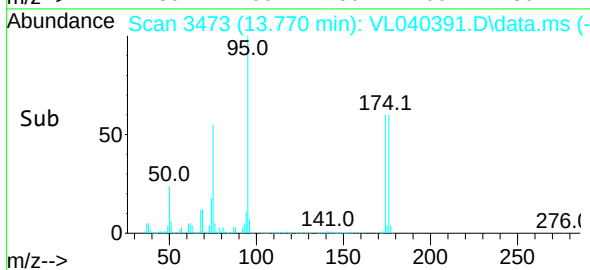
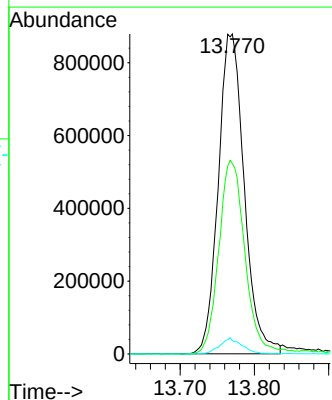
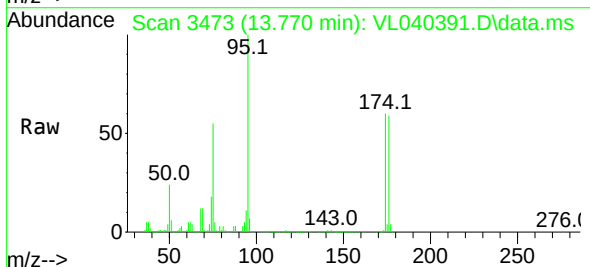
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417DL

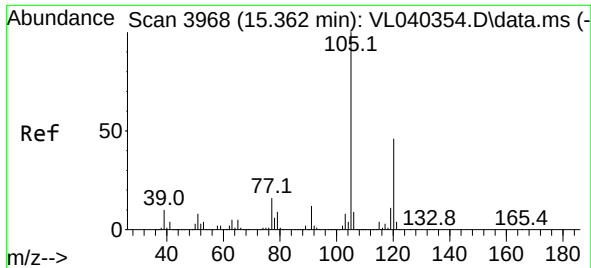
Tgt Ion: 91 Resp: 38750
Ion Ratio Lower Upper
91 100
106 48.6 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.614 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.016 min
Lab File: VL040391.D
Acq: 19 Apr 2023 22:23

Tgt Ion: 95 Resp: 2135574
Ion Ratio Lower Upper
95 100
174 60.9 47.2 70.8
175 4.4 3.5 5.3

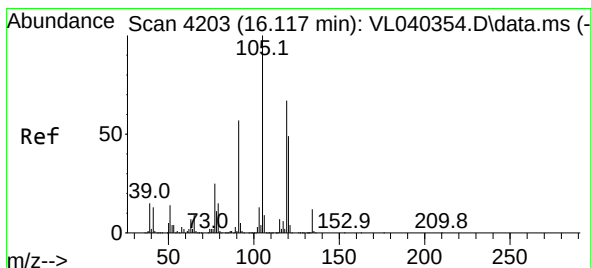
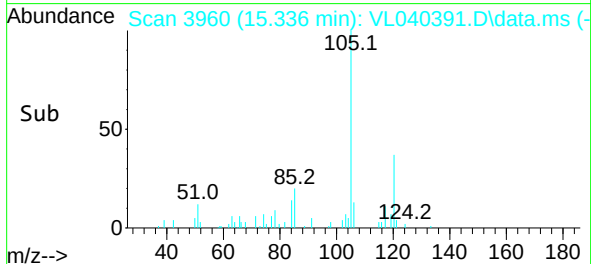
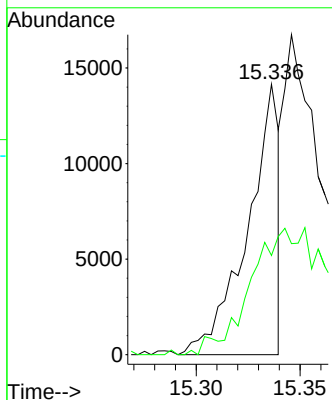
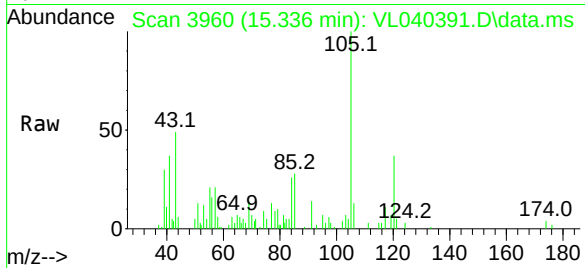




#73
 1,3,5-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 15.336 min Scan# 3960
 Delta R.T. -0.026 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417DL

Tgt Ion:105 Resp: 14814
 Ion Ratio Lower Upper
 105 100
 120 36.7 36.9 55.3#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.056 ppbv
 RT: 16.095 min Scan# 4196
 Delta R.T. -0.022 min
 Lab File: VL040391.D
 Acq: 19 Apr 2023 22:23

Tgt Ion:105 Resp: 19138
 Ion Ratio Lower Upper
 105 100
 120 45.3 38.9 58.3
 91 4.8 46.0 69.0#
 77 6.9 20.0 30.0#

