

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
 Data File : VL040409.D
 Acq On : 11 May 2023 20:41
 Operator : SY/MD
 Sample : 02748-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 12 05:57:21 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

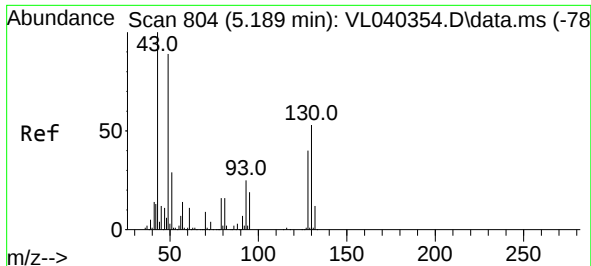
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.179	49	1107110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.642	114	2777537	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.462	117	2495004	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2005444	9.720	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	33660	0.169	ppbv	96
3) Chlorodifluoromethane	2.648	51	6219	0.043	ppbv	94
9) Propene	2.674	41	231738	4.055	ppbv	91
11) Trichlorofluoromethane	3.542	101	48110	0.238	ppbv	92
13) Ethanol	3.224	45	19108	4.005	ppbv #	21
15) Acetone	3.449	43	1101818	7.027	ppbv #	34
16) 1,3-Butadiene	2.983	39	47290	0.729	ppbv #	6
17) tert-Butyl alcohol	3.873	59	91632	0.636	ppbv	95
19) Isopropyl Alcohol	3.562	45	3429	0.048	ppbv #	90
20) Methylene Chloride	3.918	84	72433	1.157	ppbv	94
21) Allyl Chloride	3.935	41	3022	0.034	ppbv #	1
23) Vinyl Acetate	4.771	43	1857429	46.524	ppbv #	88
25) Ethyl Acetate	5.198	43	50992	0.193	ppbv #	81
26) Hexane	5.201	57	65446	0.588	ppbv #	1
27) Carbon Disulfide	4.111	76	14743	0.102	ppbv #	1
34) 2-Butanone	4.771	43	1857429	12.402	ppbv	99
39) 1,2-Dichloropropane	6.642	63	707560	7.935	ppbv #	25
51) 2-Hexanone	9.561	43	66664	0.397	ppbv #	98
53) Toluene	9.214	91	64682	0.269	ppbv	100
58) Ethyl Benzene	12.082	91	18756	0.061	ppbv	97
59) m/p-Xylene	12.365	91	14438	0.051	ppbv #	32
60) o-Xylene	13.050	91	38492	0.142	ppbv	93
73) 1,3,5-Trimethylbenzene	15.352	105	18149	0.066	ppbv #	78
74) 1,2,4-Trimethylbenzene	16.108	105	93436	0.296	ppbv #	59

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

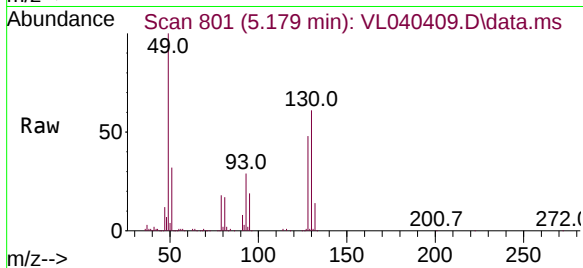
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Apr 13 14:37:02 2023
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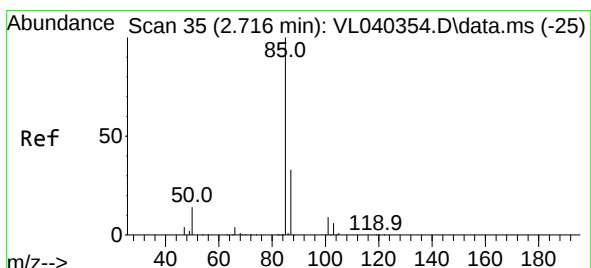
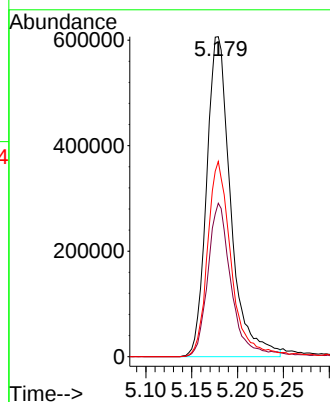
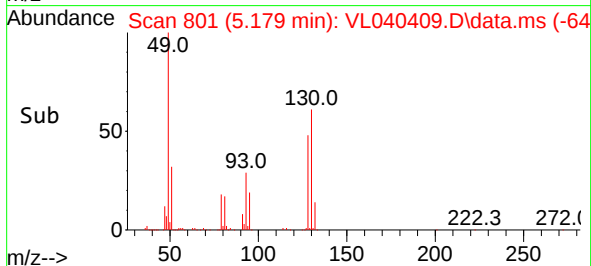


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.010 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Instrument :
 MSVOA_L
 ClientSampleId :

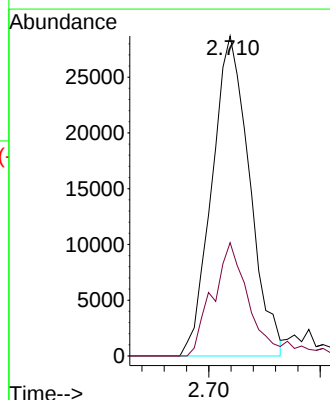
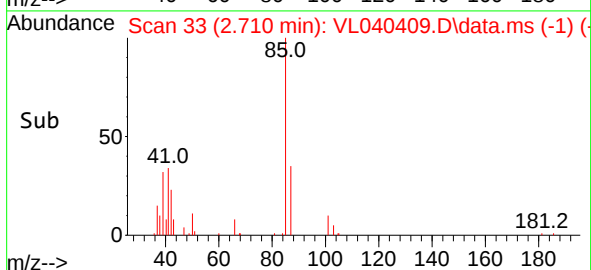
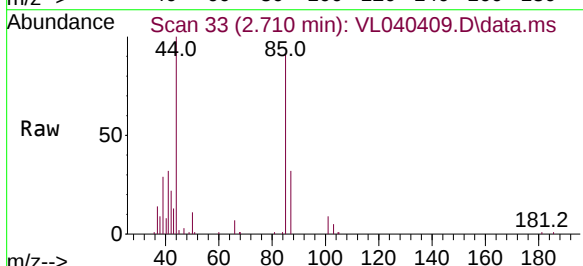


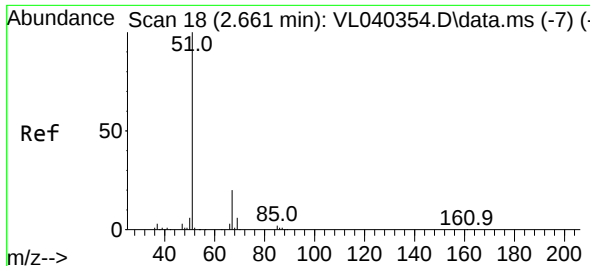
Tgt Ion: 49 Resp: 1107110
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.7 71.1
 130 60.7 29.9 89.8



#2
 Dichlorodifluoromethane
 Concen: 0.169 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. -0.006 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Tgt Ion: 85 Resp: 33660
 Ion Ratio Lower Upper
 85 100
 87 35.4 26.6 40.0

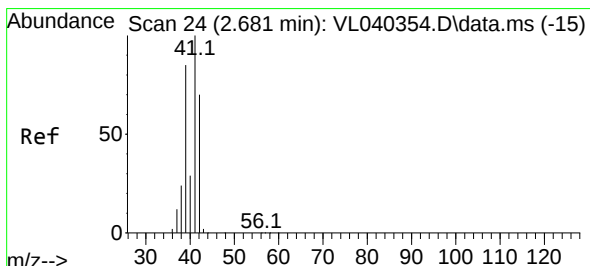
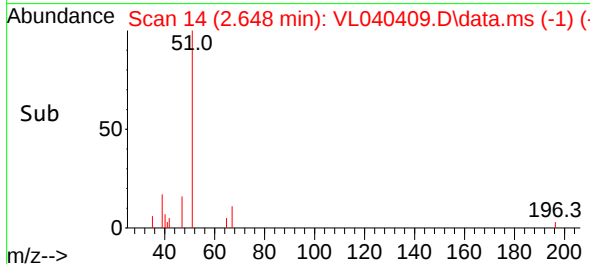
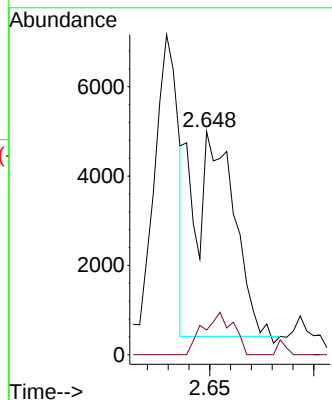
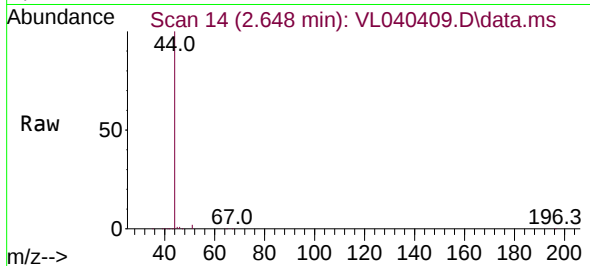




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.013 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

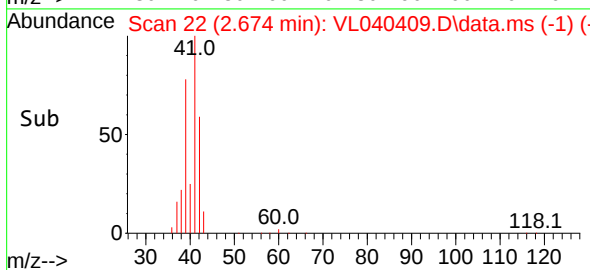
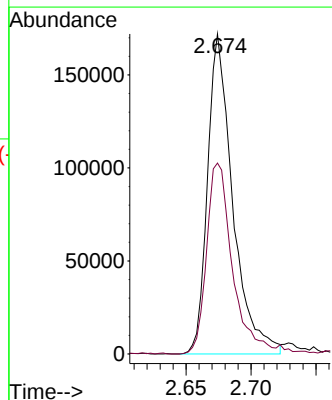
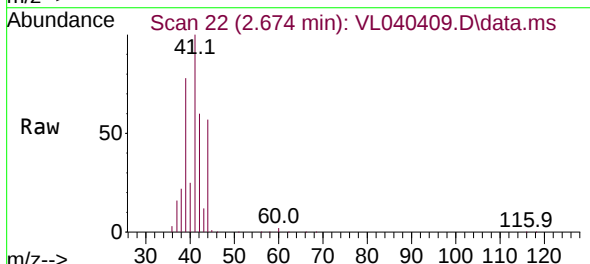
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ClientSampleId :

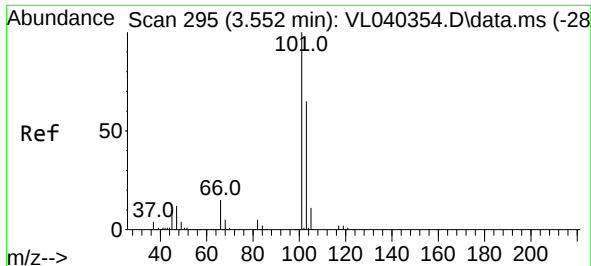
Tgt Ion: 51 Resp: 6219
Ion Ratio Lower Upper
51 100
67 16.9 15.5 23.3



#9
Propene
Concen: 4.055 ppbv
RT: 2.674 min Scan# 22
Delta R.T. -0.007 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

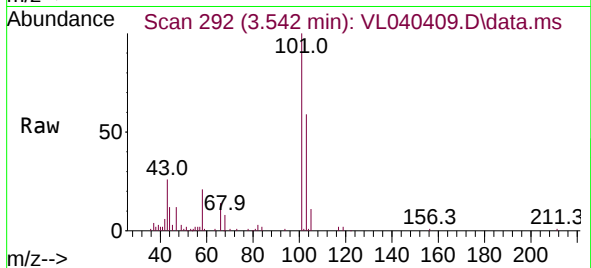
Tgt Ion: 41 Resp: 231738
Ion Ratio Lower Upper
41 100
42 62.9 56.5 84.7



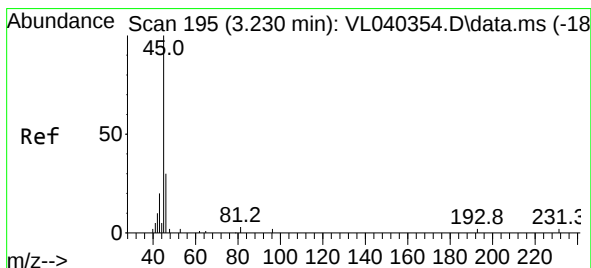
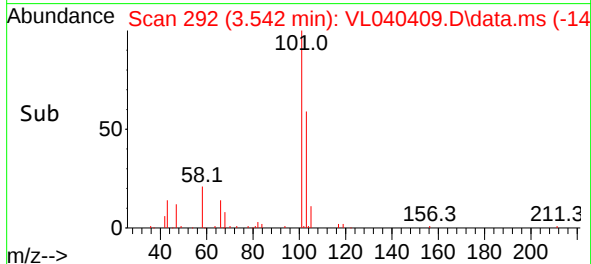
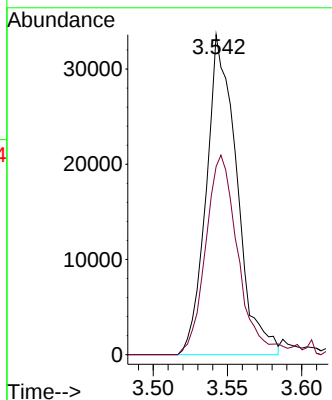


#11
 Trichlorofluoromethane
 Concen: 0.238 ppbv
 RT: 3.542 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Instrument :
 MSVOA_L
 ClientSampleId :

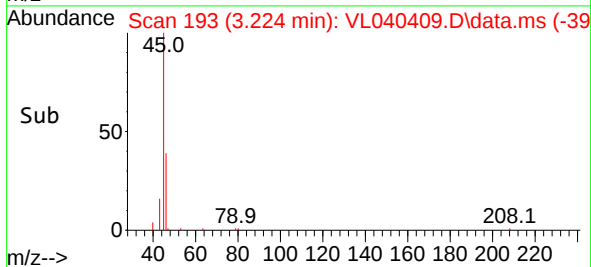
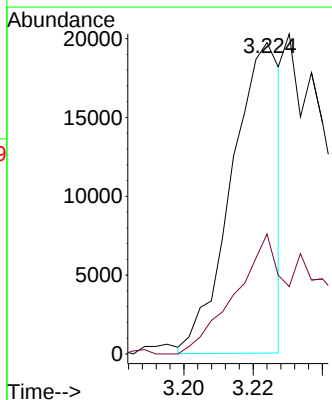
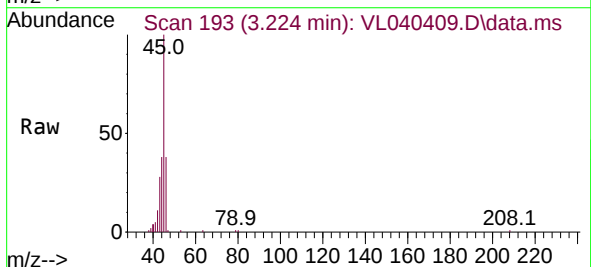


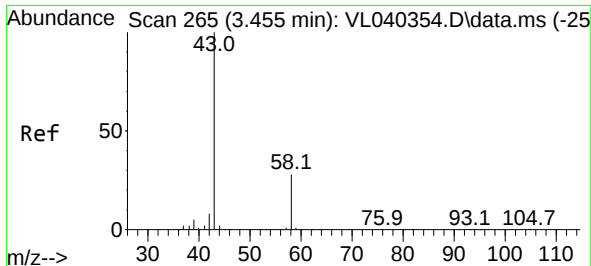
Tgt Ion:101 Resp: 48110
 Ion Ratio Lower Upper
 101 100
 103 58.8 52.2 78.4



#13
 Ethanol
 Concen: 4.005 ppbv
 RT: 3.224 min Scan# 193
 Delta R.T. -0.006 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Tgt Ion: 45 Resp: 19108
 Ion Ratio Lower Upper
 45 100
 46 86.2 15.3 61.3#

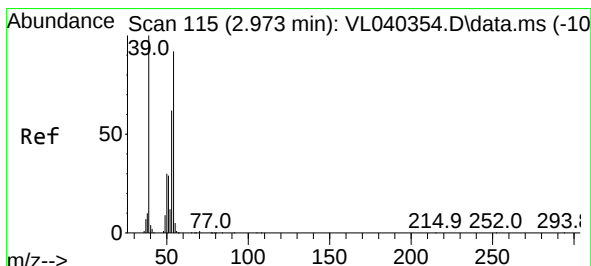
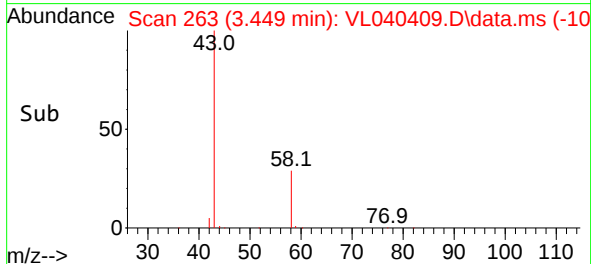
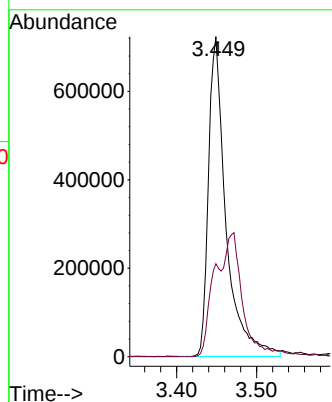
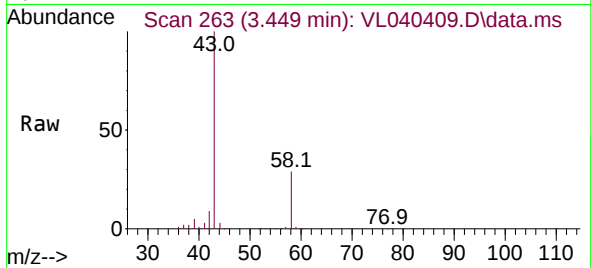




#15
Acetone
Concen: 7.027 ppbv
RT: 3.449 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

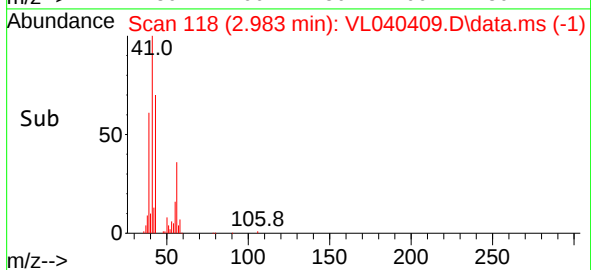
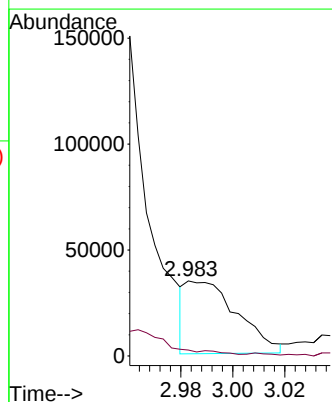
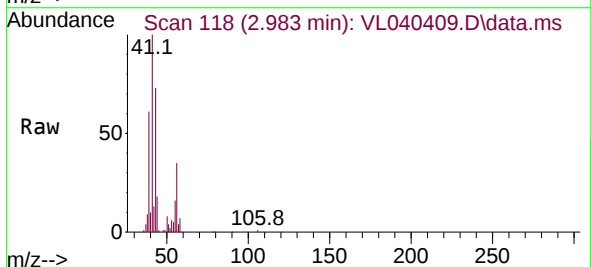
Instrument :
MSVOA_L
ClientSampleId :

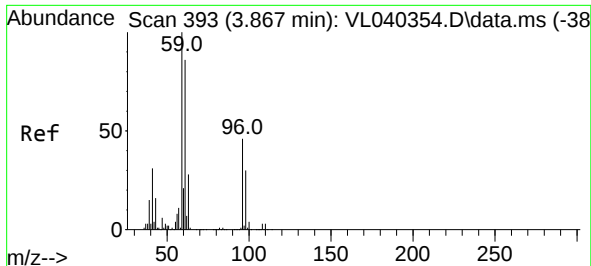
Tgt Ion: 43 Resp: 1101818
Ion Ratio Lower Upper
43 100
58 62.2 22.2 33.2#



#16
1,3-Butadiene
Concen: 0.729 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.010 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

Tgt Ion: 39 Resp: 47290
Ion Ratio Lower Upper
39 100
54 0.0 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 0.636 ppbv

RT: 3.873 min Scan# 393

Delta R.T. 0.006 min

Lab File: VL040409.D

Acq: 11 May 2023 20:41

Instrument :

MSVOA_L

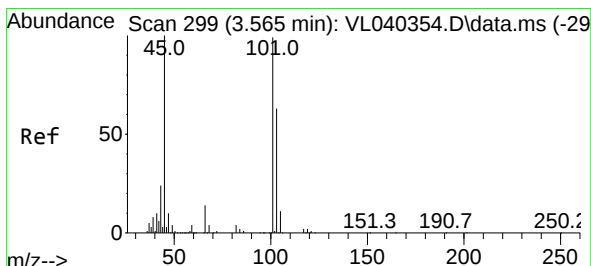
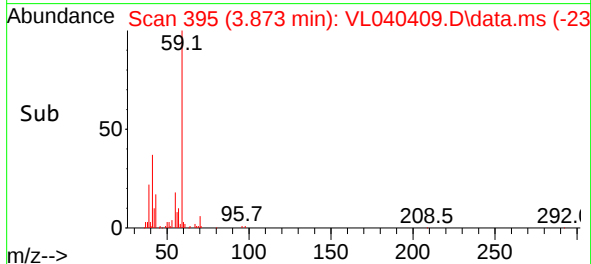
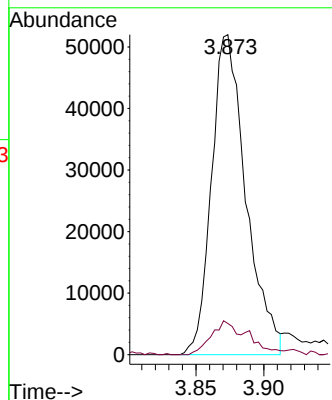
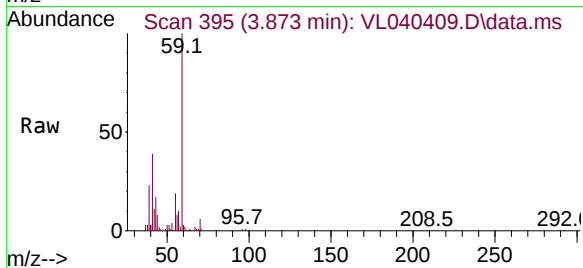
ClientSampleId :

Tgt Ion: 59 Resp: 91632

Ion Ratio Lower Upper

59 100

57 12.4 8.5 12.7



#19

Isopropyl Alcohol

Concen: 0.048 ppbv

RT: 3.562 min Scan# 298

Delta R.T. -0.003 min

Lab File: VL040409.D

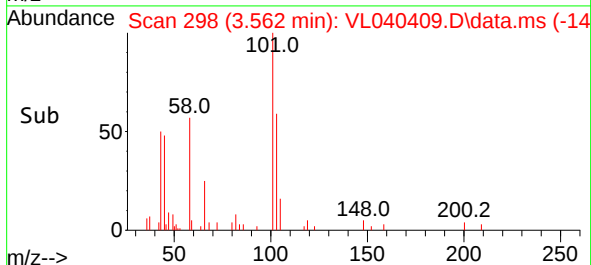
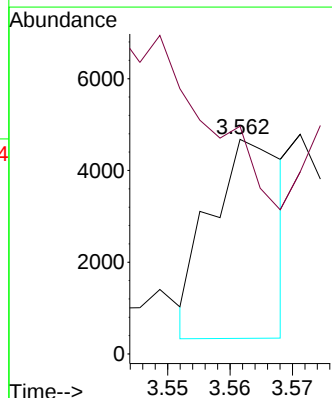
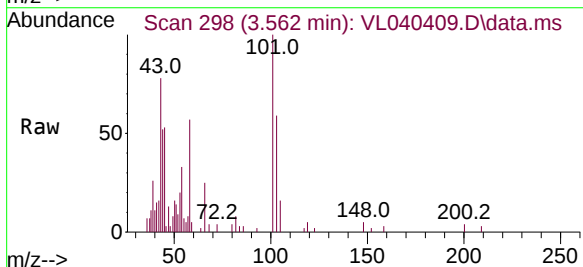
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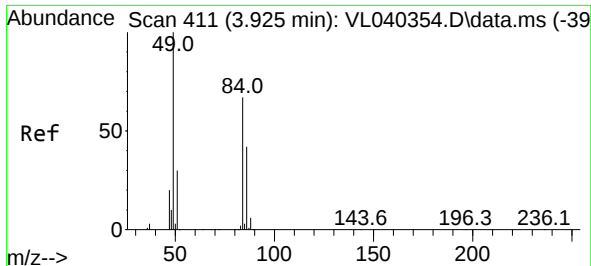
Tgt Ion: 45 Resp: 3429

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#

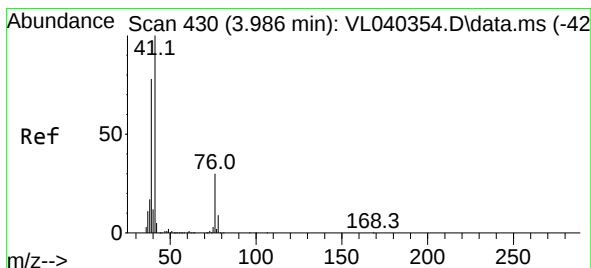
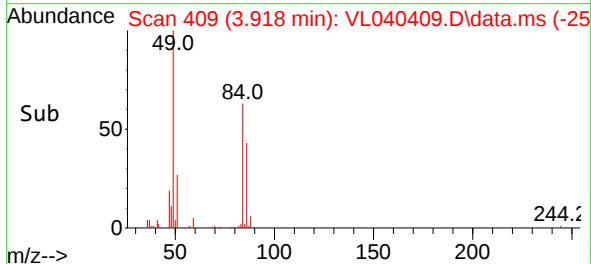
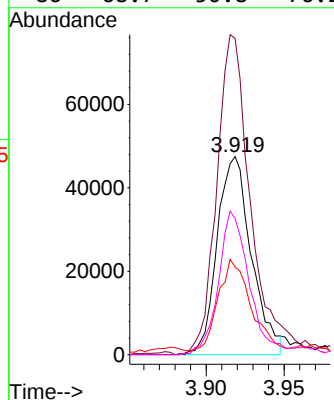
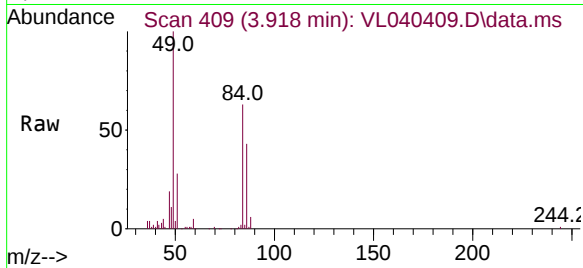




#20
Methylene Chloride
Concen: 1.157 ppbv
RT: 3.918 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

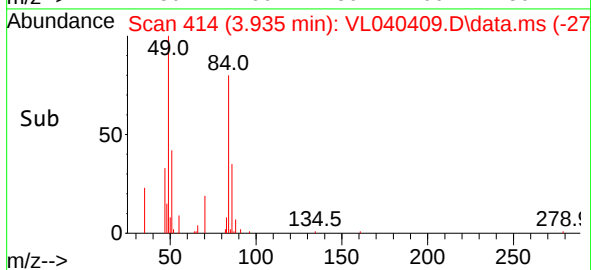
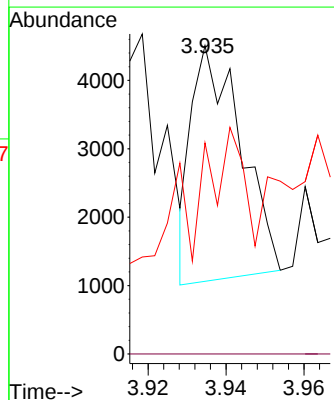
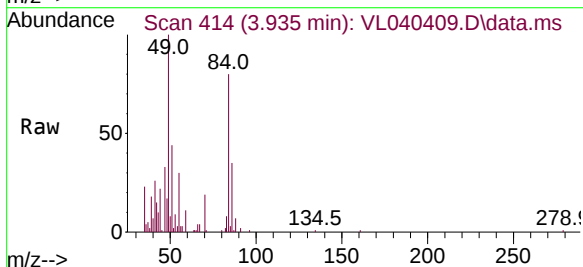
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MSVOA_L
ClientSampleId :

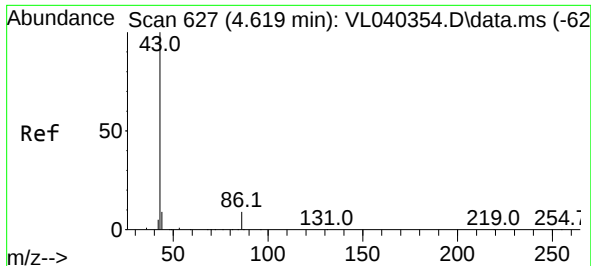
Tgt Ion: 84 Resp: 72433
Ion Ratio Lower Upper
84 100
49 156.3 120.1 180.1
51 41.4 36.3 54.5
86 68.7 50.8 76.2



#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.051 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

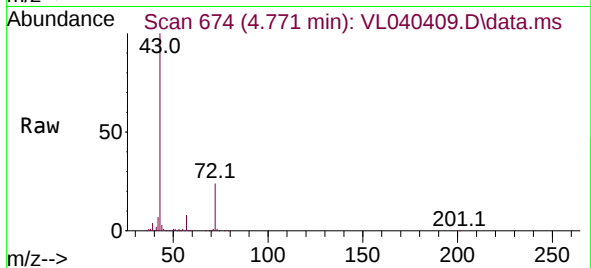
Tgt Ion: 41 Resp: 3022
Ion Ratio Lower Upper
41 100
76 0.0 25.5 38.3#
39 332.9 64.0 96.0#





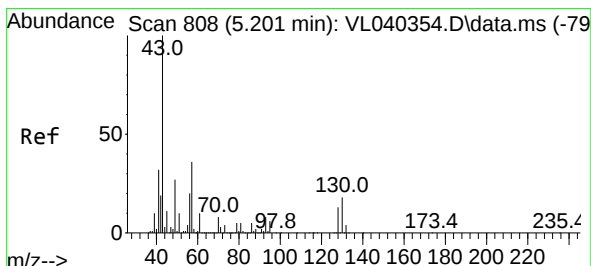
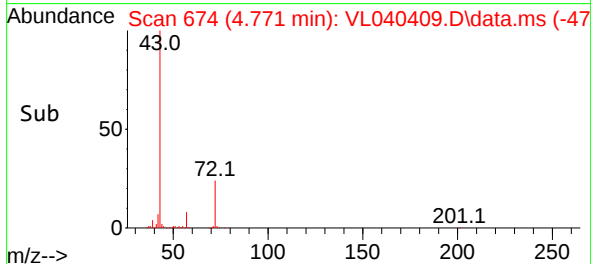
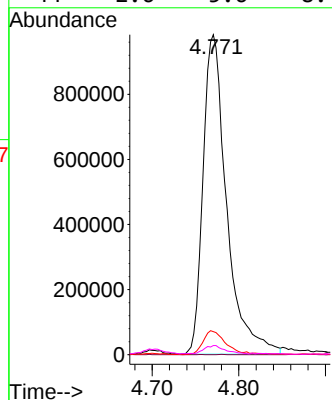
#23
 Vinyl Acetate
 Concen: 46.524 ppbv
 RT: 4.771 min Scan# 61
 Delta R.T. 0.152 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 1857429

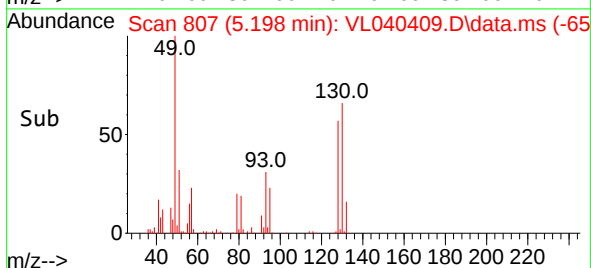
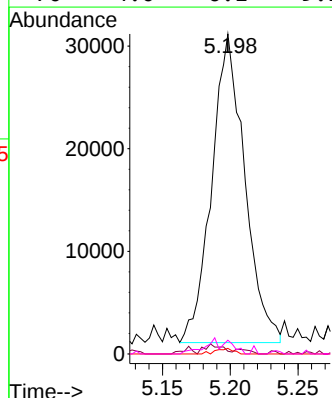
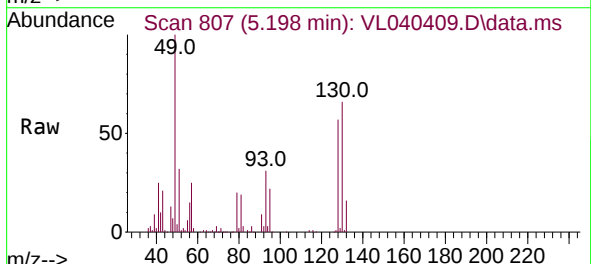
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	7.2	6.4	9.6
44	2.6	5.6	8.4#

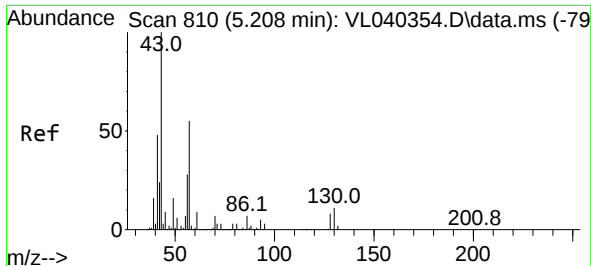


#25
 Ethyl Acetate
 Concen: 0.193 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.003 min
 Lab File: VL040409.D
 Acq: 11 May 2023 20:41

Tgt Ion: 43 Resp: 50992

Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.5	12.7#
61	0.9	8.5	12.7#
70	4.0	6.1	9.1#

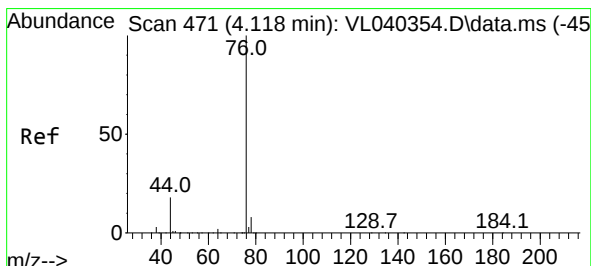
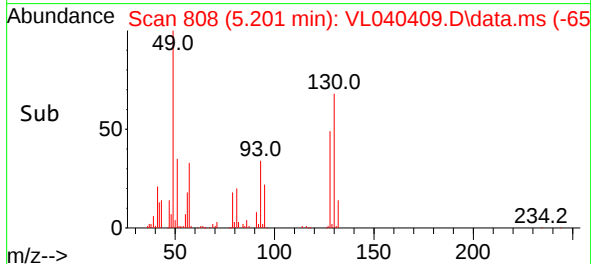
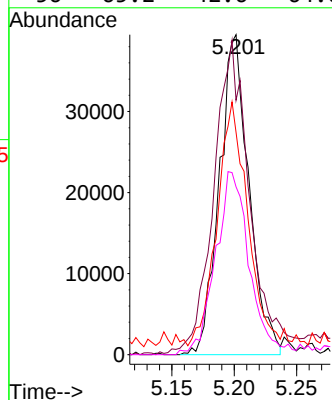
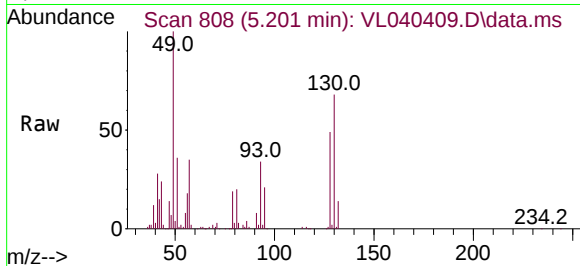




#26
Hexane
Concen: 0.588 ppbv
RT: 5.201 min Scan# 810
Delta R.T. -0.007 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

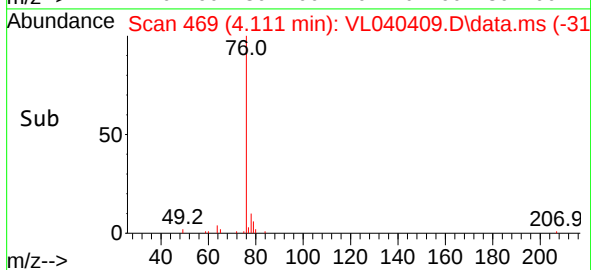
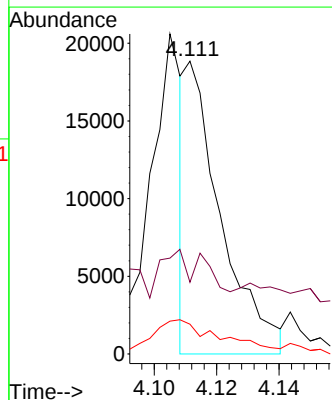
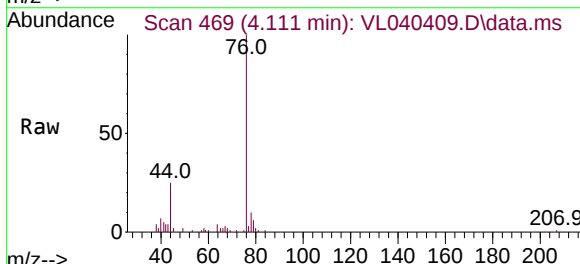
Instrument :
MSVOA_L
ClientSampleId :

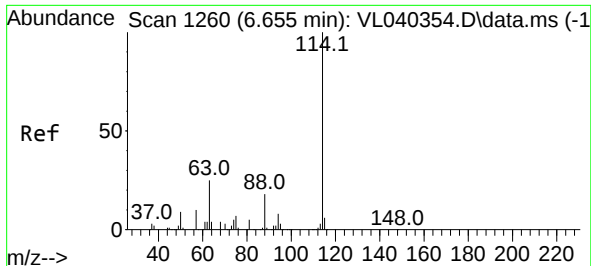
Tgt Ion: 57 Resp: 65446
Ion Ratio Lower Upper
57 100
41 131.0 74.8 112.2#
43 0.0 192.7 289.1#
56 65.2 42.6 64.0#



#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 4.111 min Scan# 469
Delta R.T. -0.007 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

Tgt Ion: 76 Resp: 14743
Ion Ratio Lower Upper
76 100
44 82.8 14.7 22.1#
78 27.3 7.7 11.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040409.D

Acq: 11 May 2023 20:41

Instrument :

MSVOA_L

ClientSampleId :

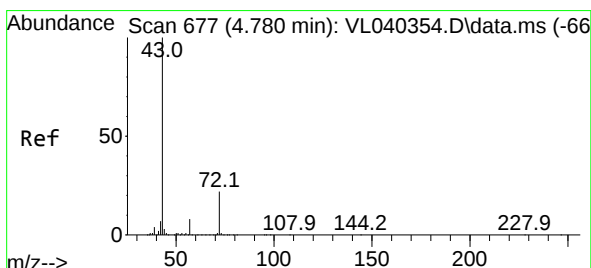
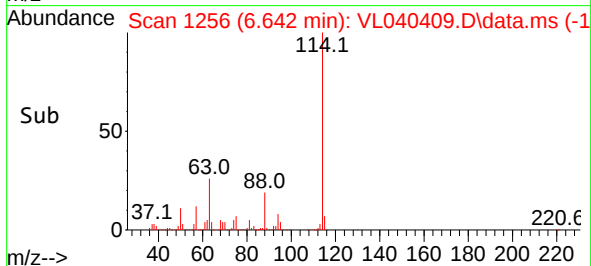
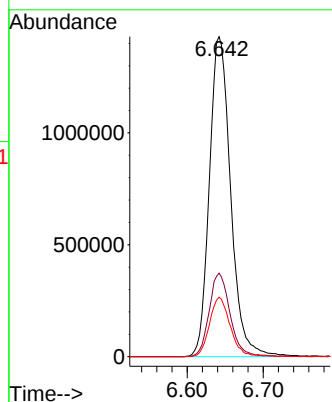
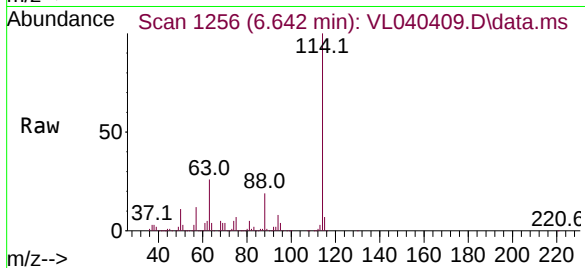
Tgt Ion:114 Resp: 2777537

Ion Ratio Lower Upper

114 100

63 25.9 21.4 32.0

88 18.2 14.6 22.0



#34

2-Butanone

Concen: 12.402 ppbv

RT: 4.771 min Scan# 674

Delta R.T. -0.009 min

Lab File: VL040409.D

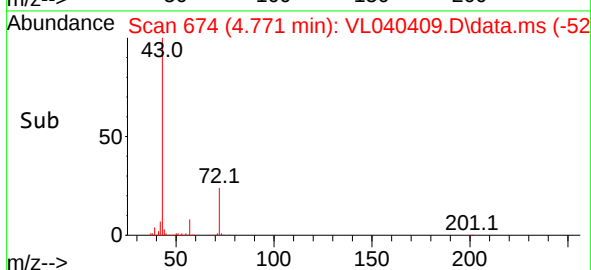
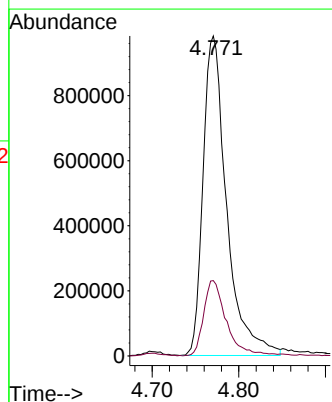
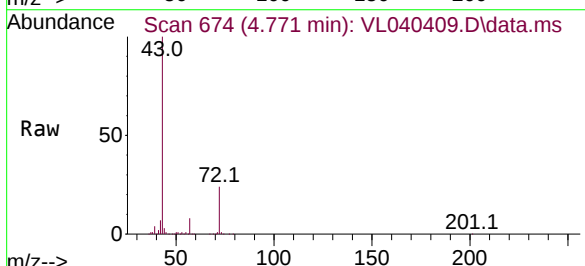
Acq: 11 May 2023 20:41

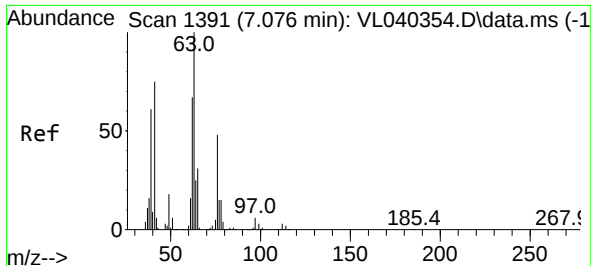
Tgt Ion: 43 Resp: 1857429

Ion Ratio Lower Upper

43 100

72 23.4 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.935 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.434 min

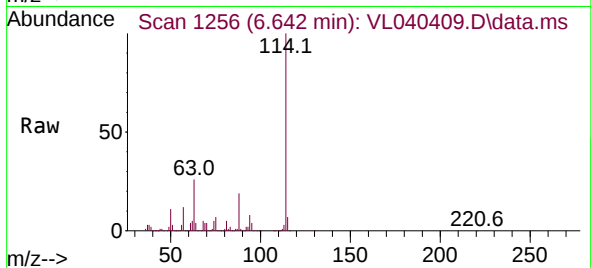
Lab File: VL040409.D

Acq: 11 May 2023 20:41

Instrument :

MSVOA_L

ClientSampleId :



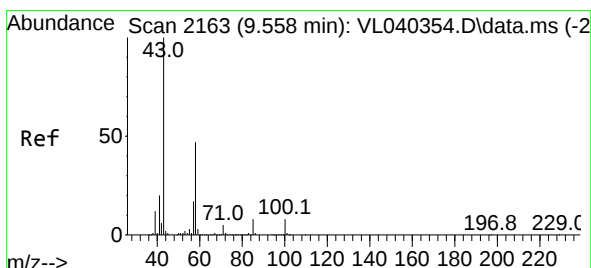
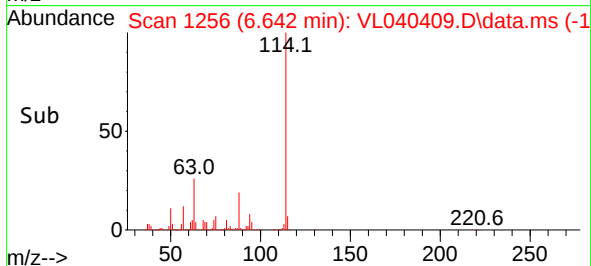
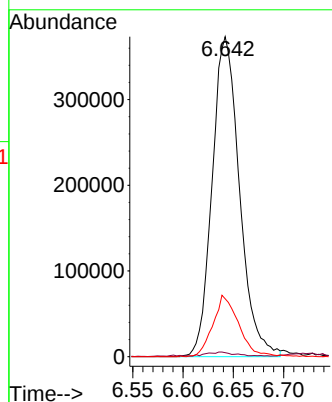
Tgt Ion: 63 Resp: 707560

Ion Ratio Lower Upper

63 100

41 1.0 59.6 89.4#

62 17.9 53.9 80.9#



#51

2-Hexanone

Concen: 0.397 ppbv

RT: 9.561 min Scan# 2164

Delta R.T. 0.003 min

Lab File: VL040409.D

Acq: 11 May 2023 20:41

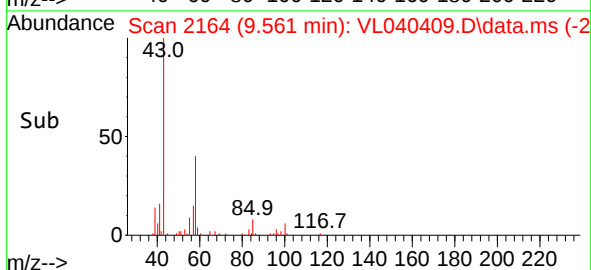
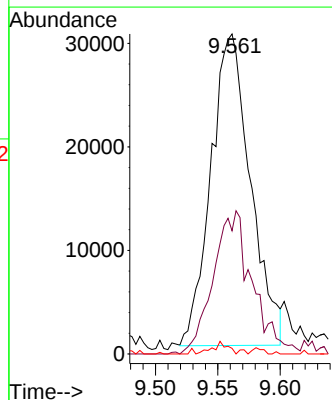
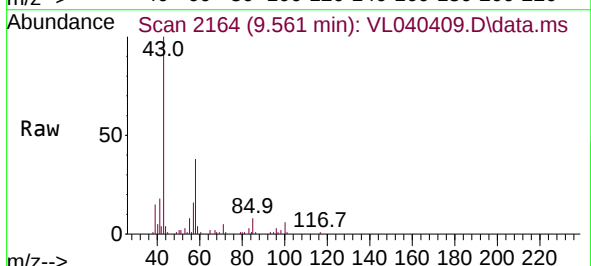
Tgt Ion: 43 Resp: 66664

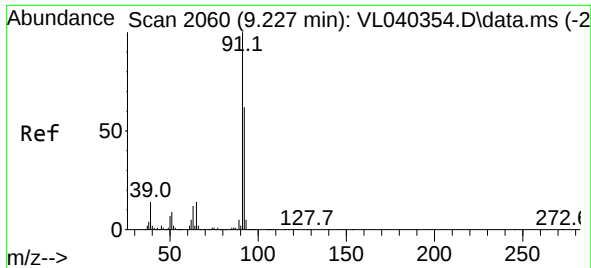
Ion Ratio Lower Upper

43 100

58 46.5 38.3 57.5

98 2.4 0.4 0.6#

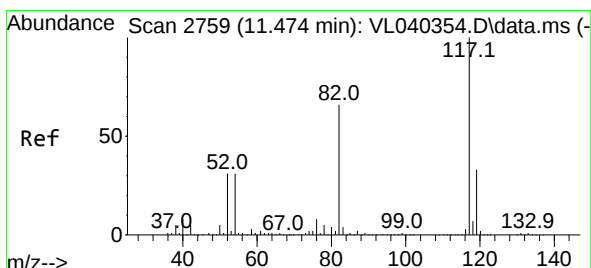
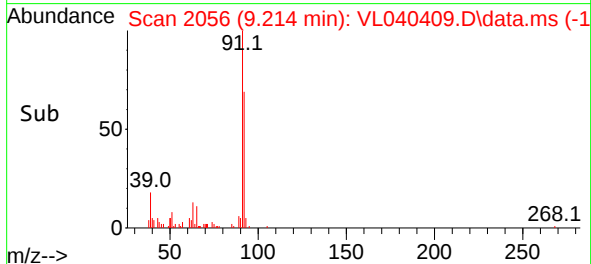
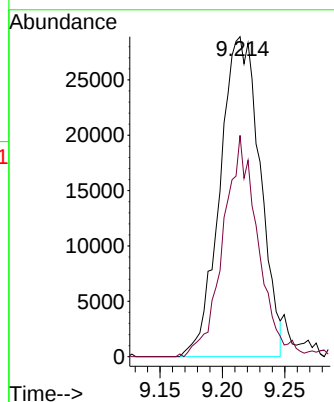
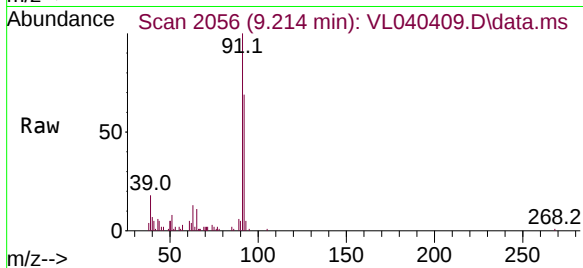




#53
Toluene
Concen: 0.269 ppbv
RT: 9.214 min Scan# 2060
Delta R.T. -0.013 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

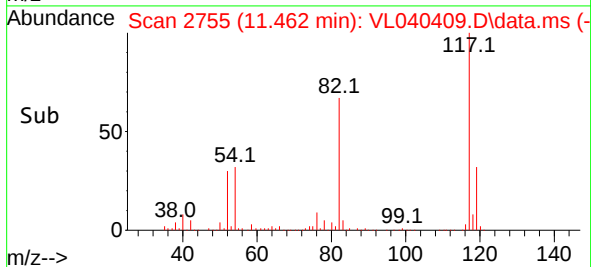
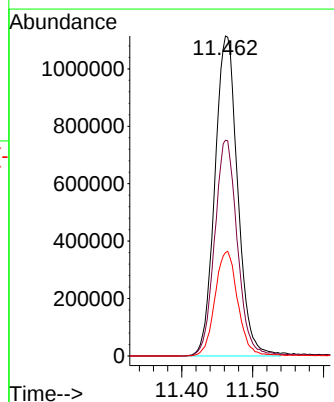
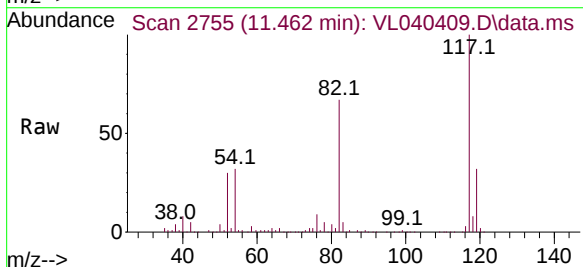
Instrument :
MSVOA_L
ClientSampleId :

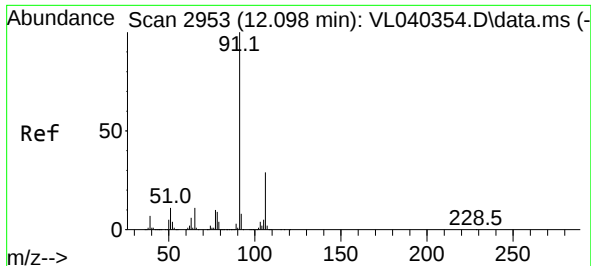
Tgt Ion: 91 Resp: 64682
Ion Ratio Lower Upper
91 100
92 61.1 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2755
Delta R.T. -0.012 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

Tgt Ion: 117 Resp: 2495004
Ion Ratio Lower Upper
117 100
82 67.5 52.5 78.7
119 32.9 24.3 36.5





#58

Ethyl Benzene

Concen: 0.061 ppbv

RT: 12.082 min Scan# 2953

Delta R.T. -0.016 min

Lab File: VL040409.D

Acq: 11 May 2023 20:41

Instrument :

MSVOA_L

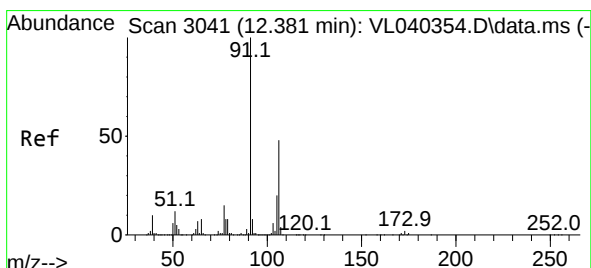
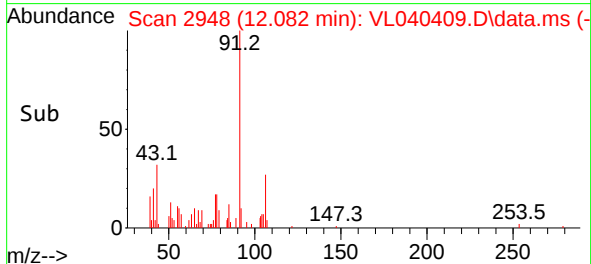
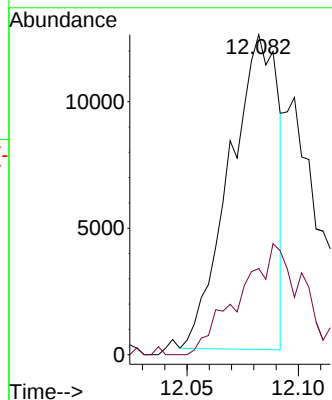
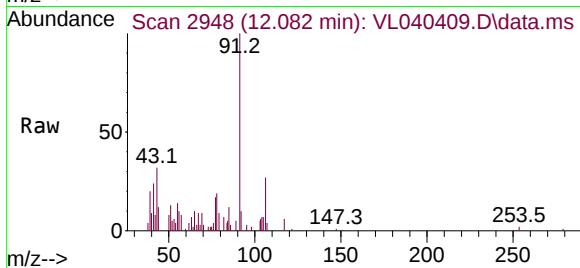
ClientSampleId :

Tgt Ion: 91 Resp: 18756

Ion Ratio Lower Upper

91 100

106 27.9 23.5 35.3



#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 12.365 min Scan# 3036

Delta R.T. -0.016 min

Lab File: VL040409.D

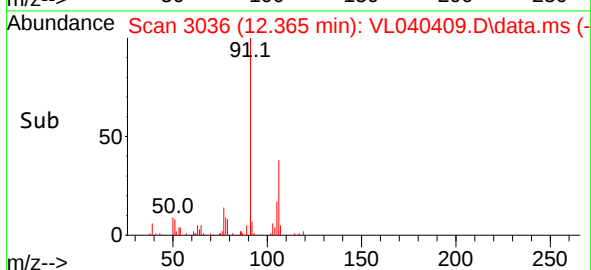
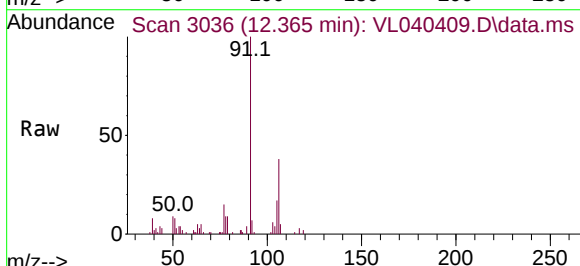
Acq: 11 May 2023 20:41

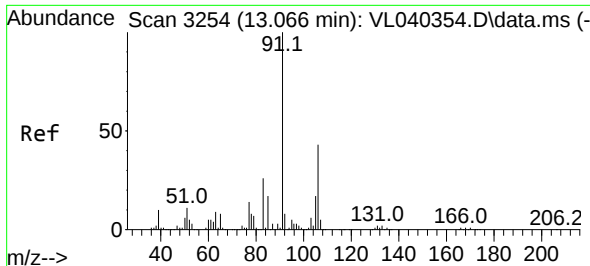
Tgt Ion: 91 Resp: 14438

Ion Ratio Lower Upper

91 100

106 0.0 34.7 52.1#

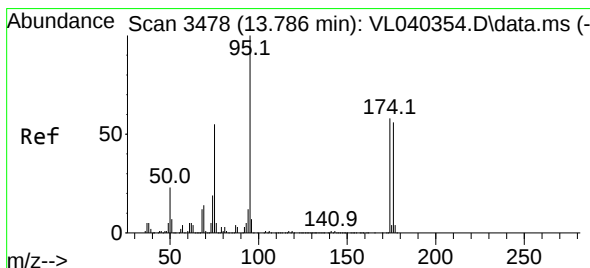
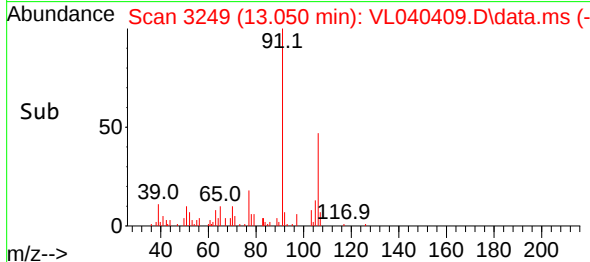
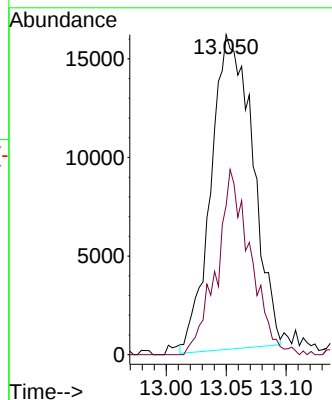
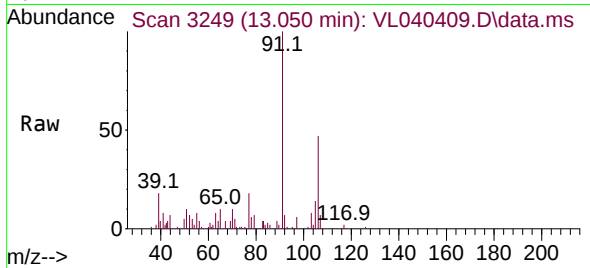




#60
o-Xylene
Concen: 0.142 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

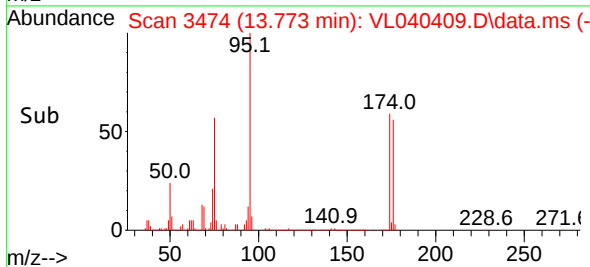
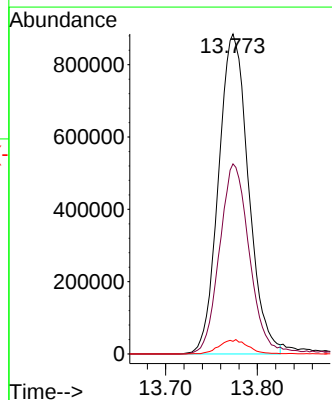
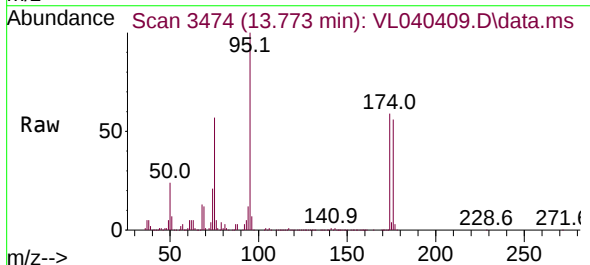
Instrument :
MSVOA_L
ClientSampleId :

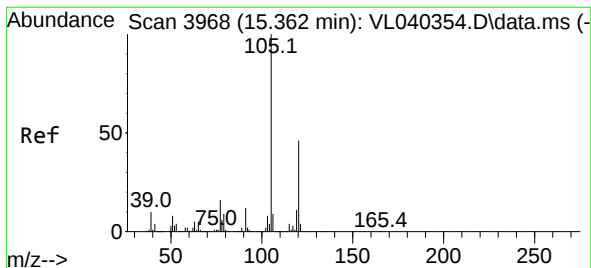
Tgt Ion: 91 Resp: 38492
Ion Ratio Lower Upper
91 100
106 48.2 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.720 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040409.D
Acq: 11 May 2023 20:41

Tgt Ion: 95 Resp: 2005444
Ion Ratio Lower Upper
95 100
174 61.0 47.2 70.8
175 4.4 3.5 5.3





#73

1,3,5-Trimethylbenzene

Concen: 0.066 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. -0.010 min MSVOA_L

Lab File: VL040409.D

Acq: 11 May 2023 20:41

Instrument :

MSVOA_L

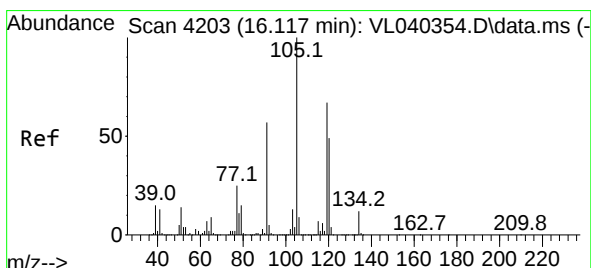
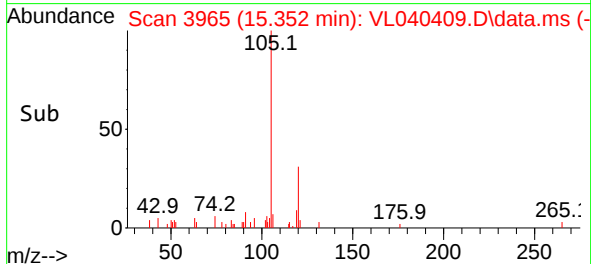
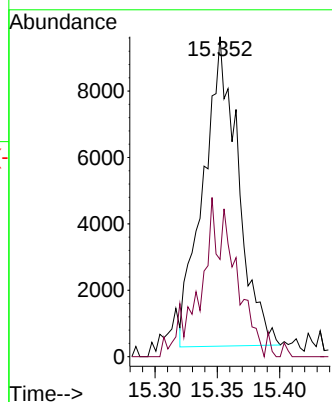
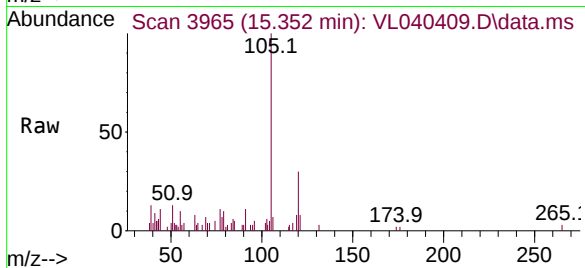
ClientSampleId :

Tgt Ion:105 Resp: 18149

Ion Ratio Lower Upper

105 100

120 31.6 36.9 55.3#



#74

1,2,4-Trimethylbenzene

Concen: 0.296 ppbv

RT: 16.108 min Scan# 4200

Delta R.T. -0.009 min

Lab File: VL040409.D

Acq: 11 May 2023 20:41

Tgt Ion:105 Resp: 93436

Ion Ratio Lower Upper

105 100

120 30.3 38.9 58.3#

91 10.0 46.0 69.0#

77 17.9 20.0 30.0#

