

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040738.D
 Acq On : 4 Oct 2023 13:14
 Operator : SY/MD
 Sample : 04716-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 05 04:26:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1080817	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2950878	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2422255	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1787209	9.550	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%

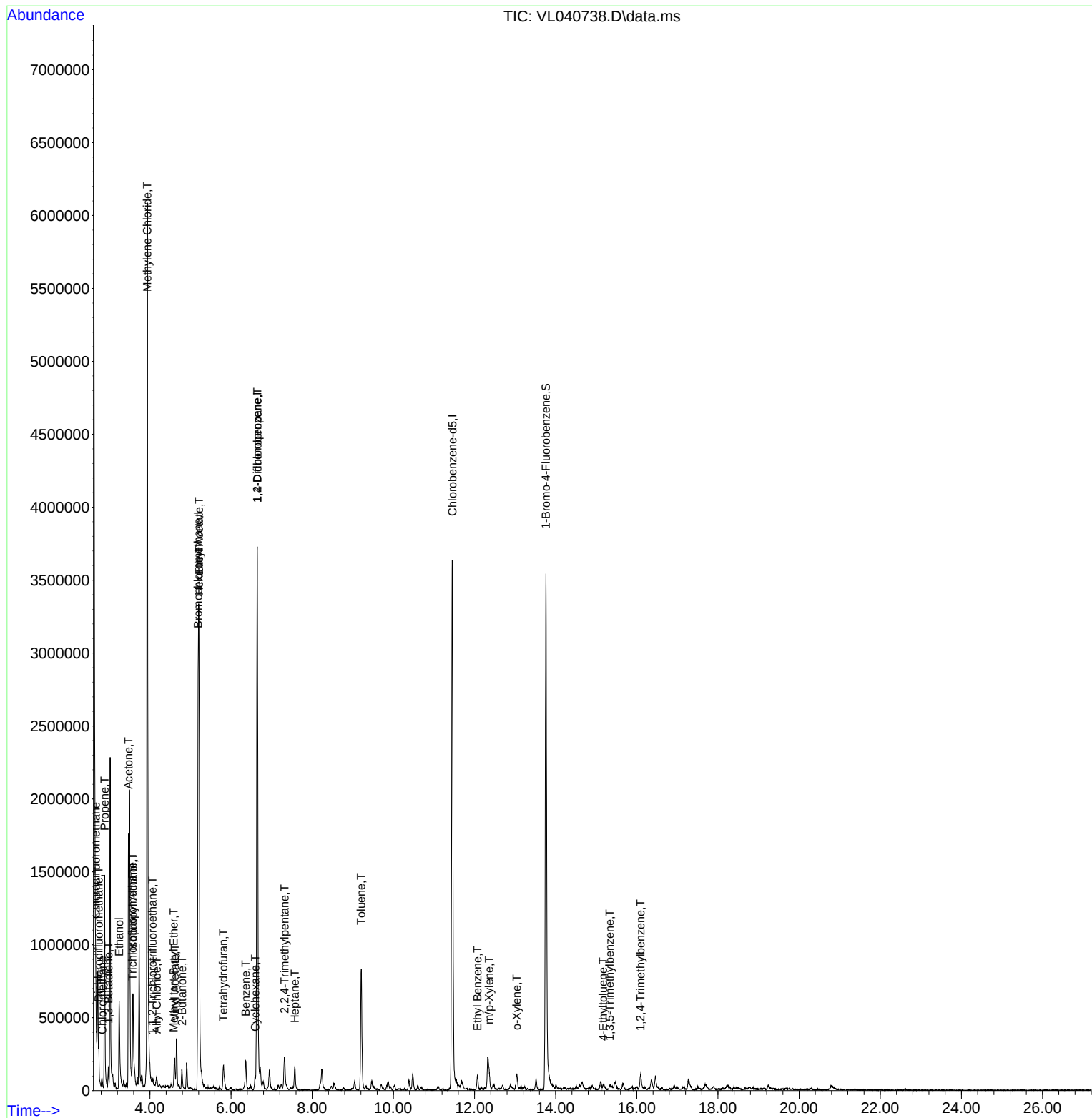
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.739	85	117502	0.493	ppbv	91
3) Chlorodifluoromethane	2.665	51	237889	1.351	ppbv #	73
4) Chloromethane	2.822	50	37377	0.554	ppbv #	86
9) Propene	2.883	41	375206	7.397	ppbv	99
10) Heptane	7.568	43	59968	0.525	ppbv	87
11) Trichlorofluoromethane	3.571	101	24796	0.118	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.066	101	5509	0.037	ppbv #	1
13) Ethanol	3.243	45	616436	41.058	ppbv	99
15) Acetone	3.472	43	2182941	15.312	ppbv	91
16) 1,3-Butadiene	2.976	39	33302	0.536	ppbv #	59
19) Isopropyl Alcohol	3.584	45	702689	8.180	ppbv #	97
20) Methylene Chloride	3.935	84	2142311	27.919	ppbv	97
21) Allyl Chloride	4.173	41	12753	0.146	ppbv	93
23) Vinyl Acetate	4.616	43	37376	0.254	ppbv #	1
25) Ethyl Acetate	5.208	43	789491	3.434	ppbv #	80
26) Hexane	5.211	57	1079308	9.927	ppbv #	40
28) Methyl tert-Butyl Ether	4.587	73	21045	0.225	ppbv #	52
30) Cyclohexane	6.600	84	12335	0.151	ppbv #	1
34) 2-Butanone	4.793	43	162647	1.096	ppbv	96
36) Benzene	6.362	78	160722	0.736	ppbv #	91
39) 1,2-Dichloropropane	6.645	63	684337	8.136	ppbv #	23
41) Tetrahydrofuran	5.809	42	9537	0.125	ppbv #	34
44) 2,2,4-Trimethylpentane	7.320	57	193605	0.556	ppbv #	83
53) Toluene	9.208	91	610536	2.646	ppbv	99
58) Ethyl Benzene	12.073	91	84804	0.307	ppbv	94
59) m/p-Xylene	12.359	91	23896	0.092	ppbv #	32
60) o-Xylene	13.040	91	80868	0.327	ppbv	97
72) 4-Ethyltoluene	15.169	105	9629	0.035	ppbv #	24
73) 1,3,5-Trimethylbenzene	15.333	105	7634	0.031	ppbv #	75
74) 1,2,4-Trimethylbenzene	16.088	105	35396	0.116	ppbv #	57

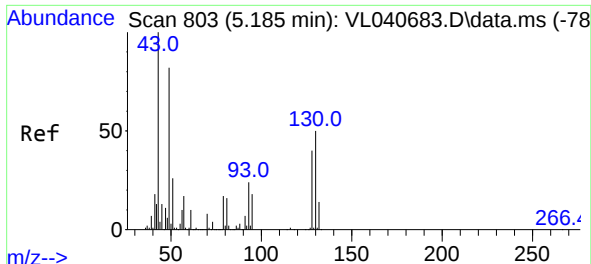
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
Data File : VL040738.D
Acq On : 4 Oct 2023 13:14
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Sample : 04716-04
Misc : 400mL/MSVOA_L
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Instrument :
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ClientSampleId :

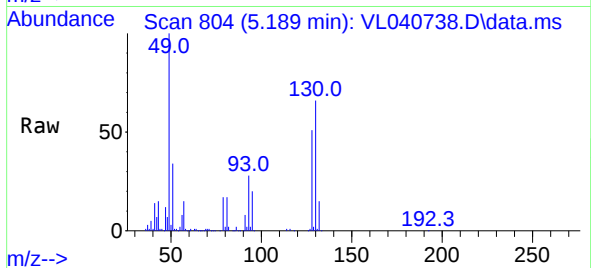
Quant Time: Oct 05 04:26:41 2023
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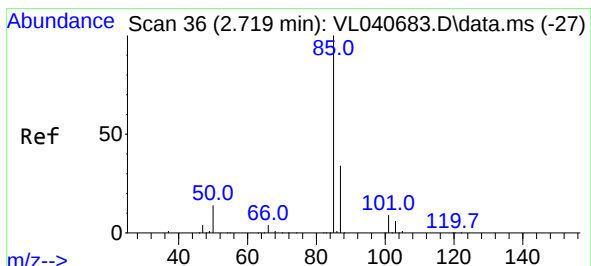
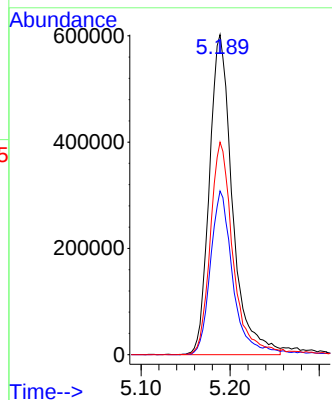
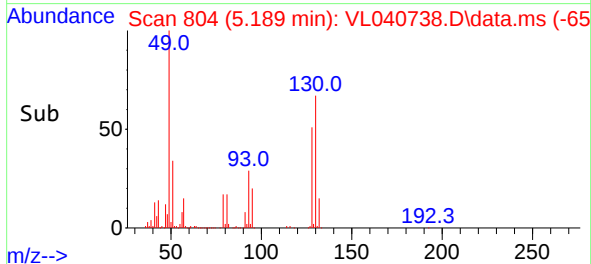


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.009 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :

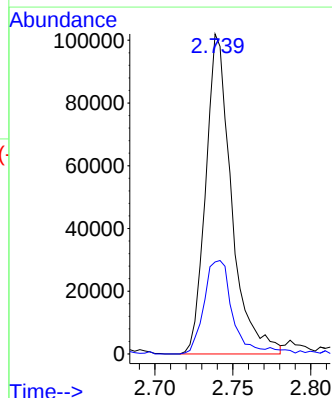
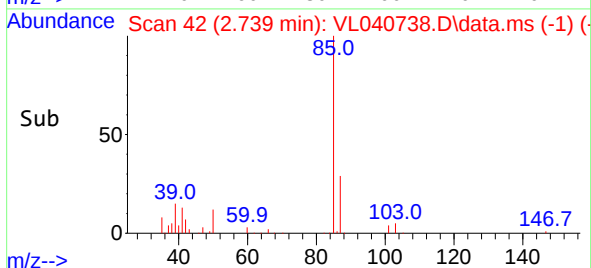
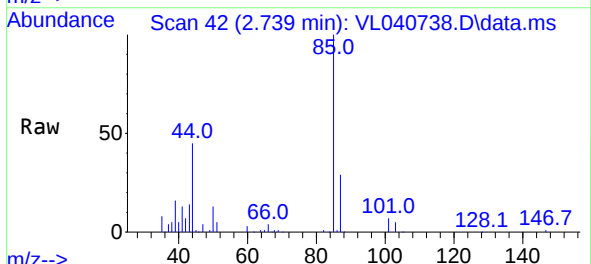


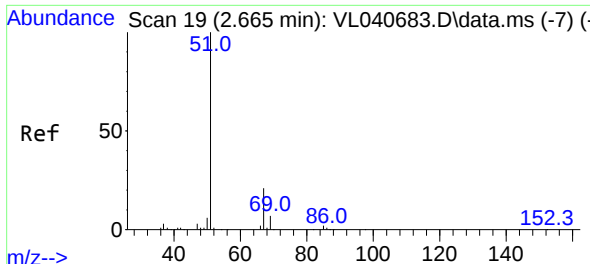
Tgt Ion: 49 Resp: 1080817
Ion Ratio Lower Upper
49 100
128 51.2 25.4 76.0
130 67.6 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.493 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 85 Resp: 117502
Ion Ratio Lower Upper
85 100
87 28.7 27.2 40.8

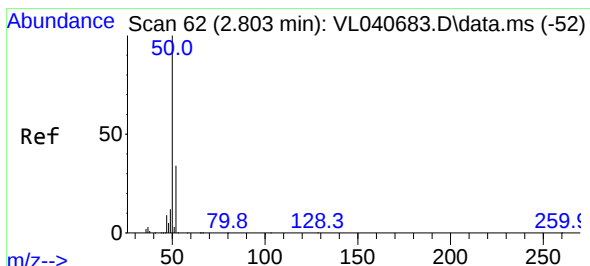
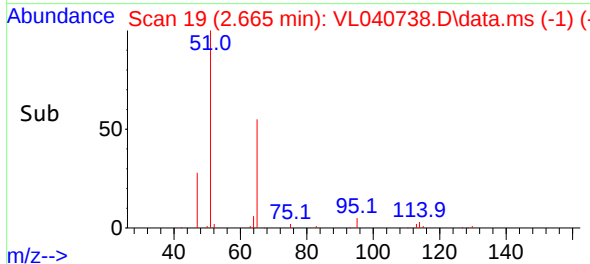
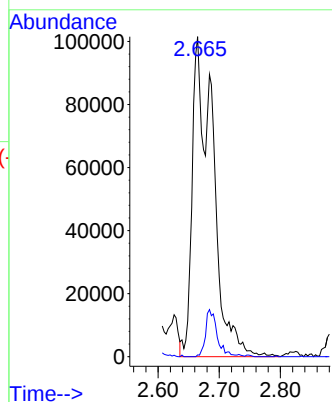
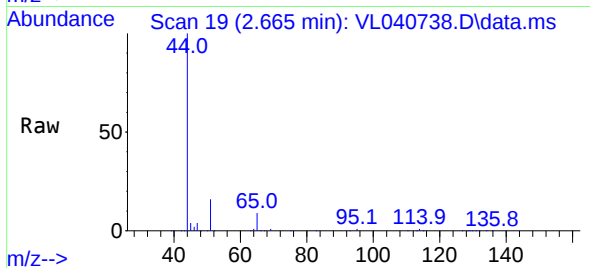




#3
Chlorodifluoromethane
Concen: 1.351 ppbv
RT: 2.665 min Scan# 19
Delta R.T. -0.013 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

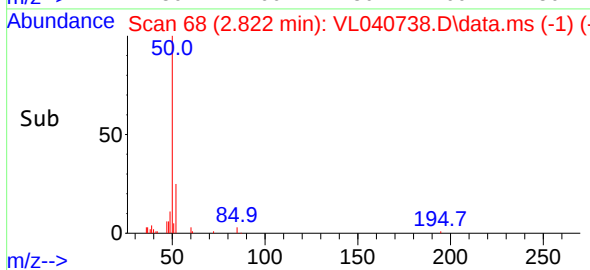
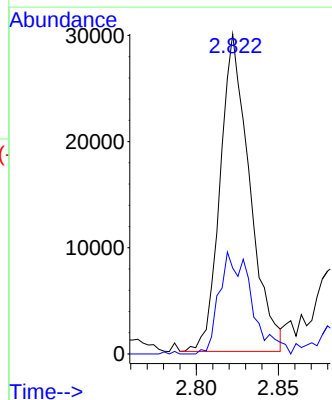
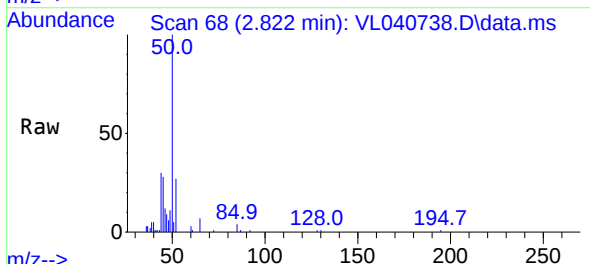
Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 237889
Ion Ratio Lower Upper
51 100
67 8.5 16.7 25.1#

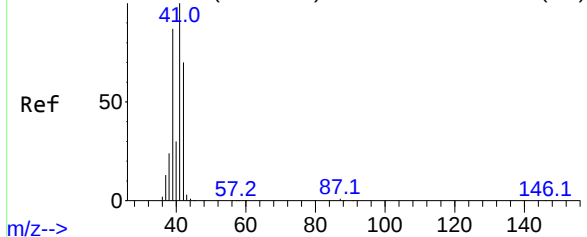


#4
Chloromethane
Concen: 0.554 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 50 Resp: 37377
Ion Ratio Lower Upper
50 100
52 25.8 27.1 40.7#



Abundance Scan 25 (2.684 min): VL040683.D\data.ms (-16)



#9

Propene

Concen: 7.397 ppbv

RT: 2.883 min Scan# 81

Delta R.T. 0.187 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

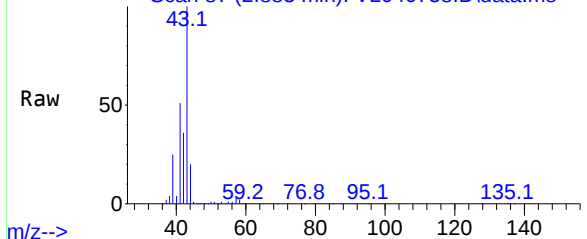
Tgt Ion: 41 Resp: 375206

Ion Ratio Lower Upper

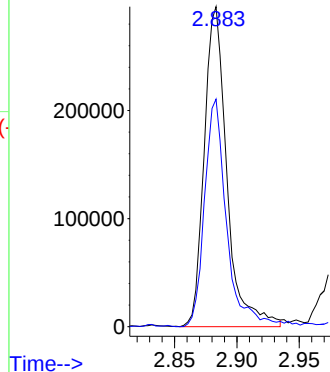
41 100

42 70.2 56.7 85.1

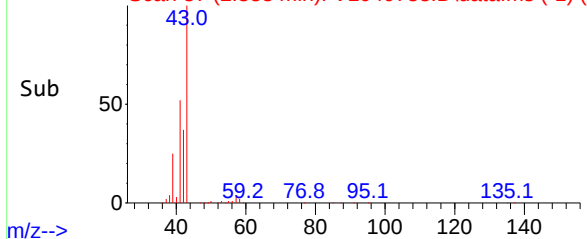
Abundance Scan 87 (2.883 min): VL040738.D\data.ms



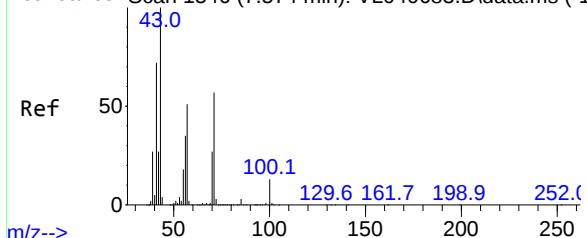
Abundance



Abundance Scan 87 (2.883 min): VL040738.D\data.ms (-1)



Abundance Scan 1546 (7.574 min): VL040683.D\data.ms (-1)



#10

Heptane

Concen: 0.525 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. -0.019 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

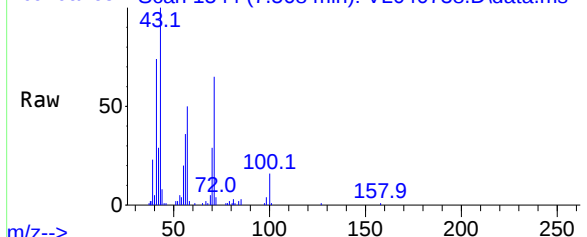
Tgt Ion: 43 Resp: 59968

Ion Ratio Lower Upper

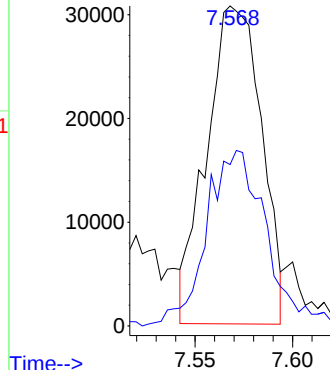
43 100

57 61.7 41.8 62.6

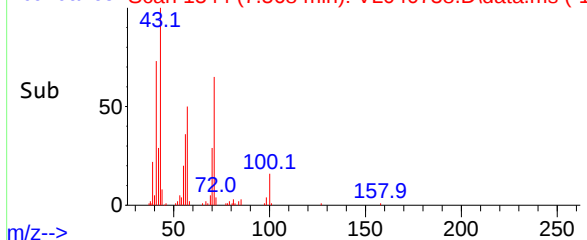
Abundance Scan 1544 (7.568 min): VL040738.D\data.ms

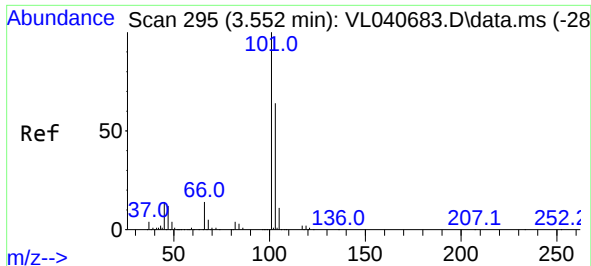


Abundance



Abundance Scan 1544 (7.568 min): VL040738.D\data.ms (-1)

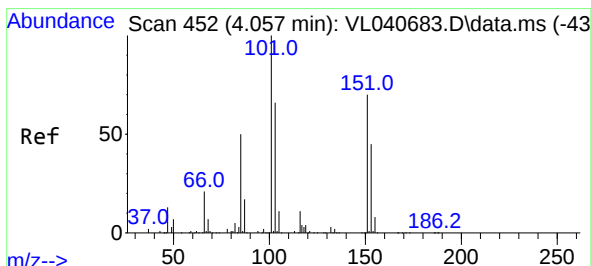
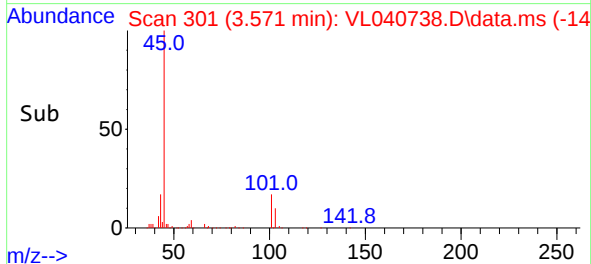
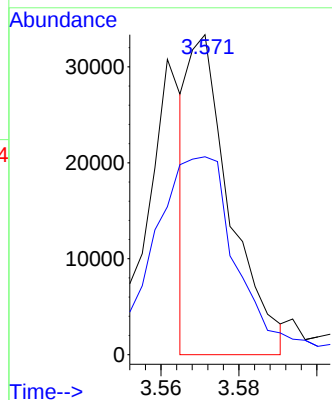
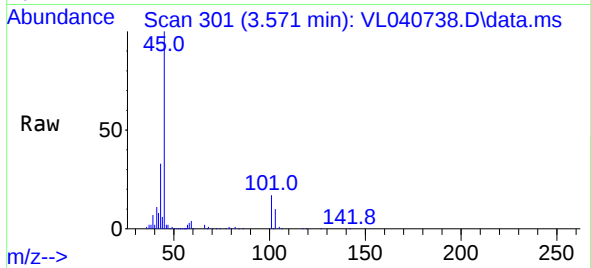




#11
 Trichlorofluoromethane
 Concen: 0.118 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.003 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

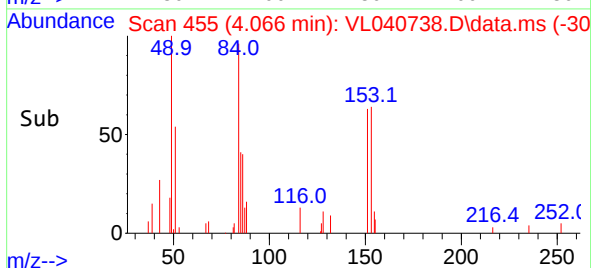
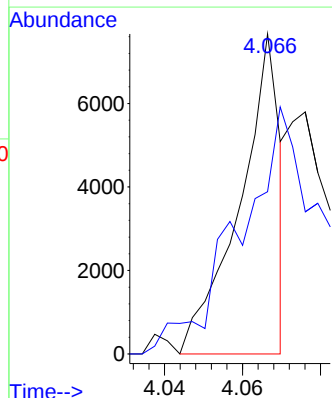
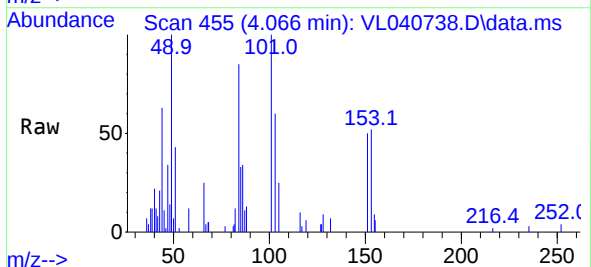
Instrument :
 MSVOA_L
 ClientSampleId :

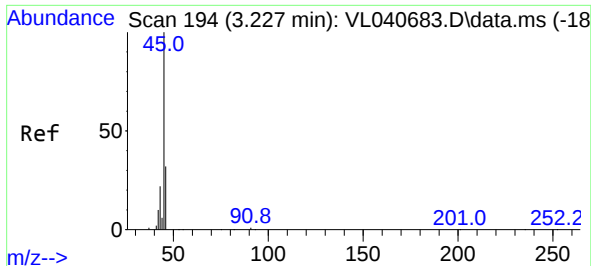
Tgt Ion:101 Resp: 24796
 Ion Ratio Lower Upper
 101 100
 103 60.9 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.037 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

Tgt Ion:101 Resp: 5509
 Ion Ratio Lower Upper
 101 100
 151 159.7 56.8 85.2#

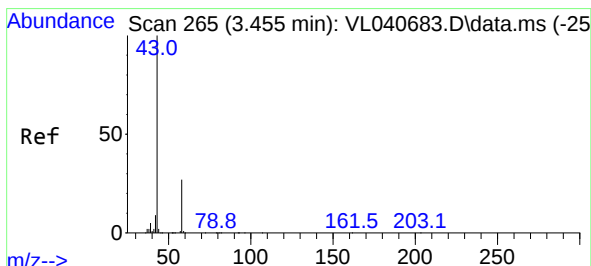
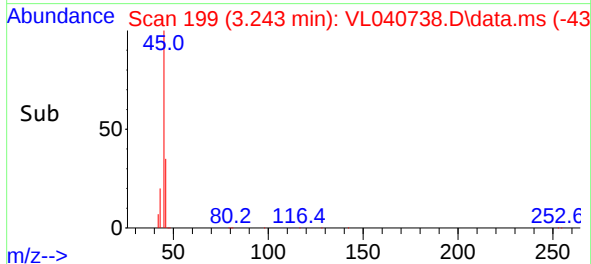
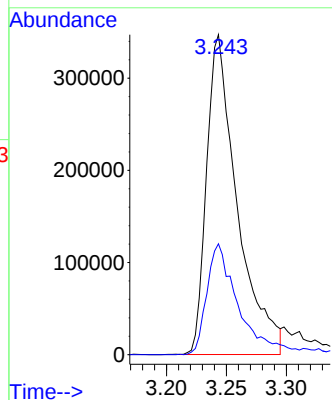
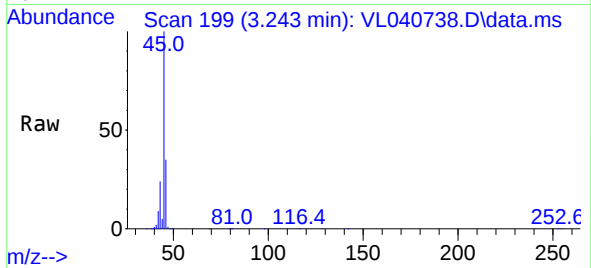




#13
 Ethanol
 Concen: 41.058 ppbv
 RT: 3.243 min Scan# 19
 Delta R.T. 0.000 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

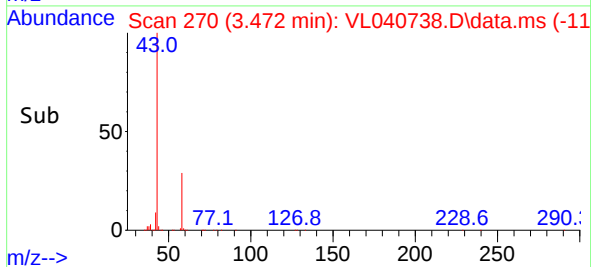
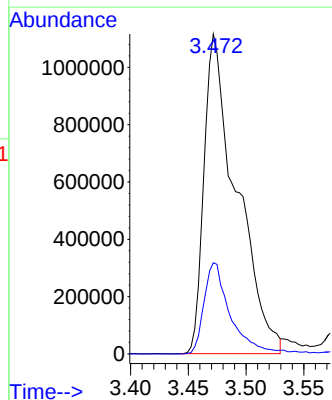
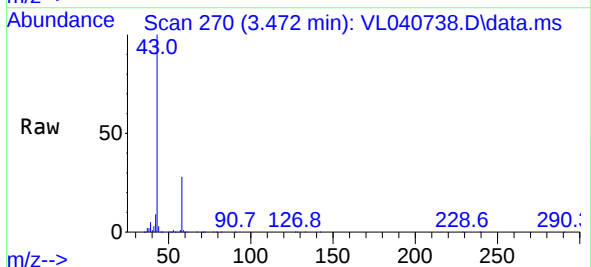
Instrument :
 MSVOA_L
 ClientSampleId :

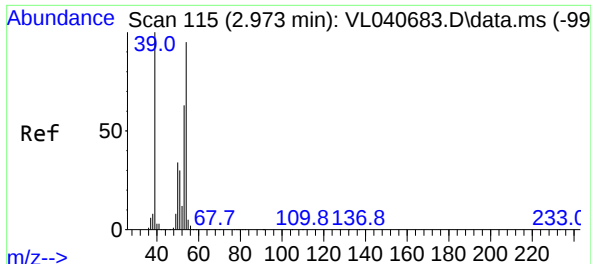
Tgt Ion: 45 Resp: 616436
 Ion Ratio Lower Upper
 45 100
 46 38.5 15.2 61.0



#15
 Acetone
 Concen: 15.312 ppbv
 RT: 3.472 min Scan# 270
 Delta R.T. 0.000 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

Tgt Ion: 43 Resp: 2182941
 Ion Ratio Lower Upper
 43 100
 58 23.4 22.6 34.0

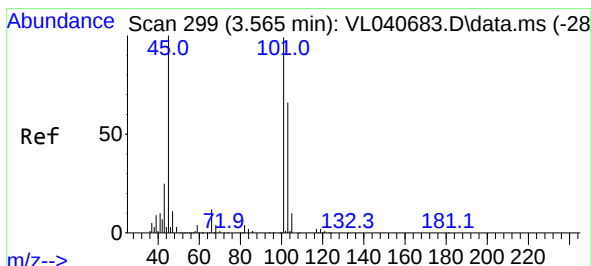
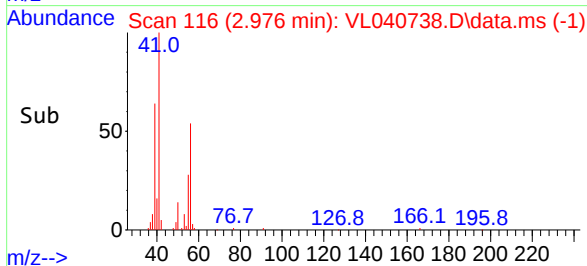
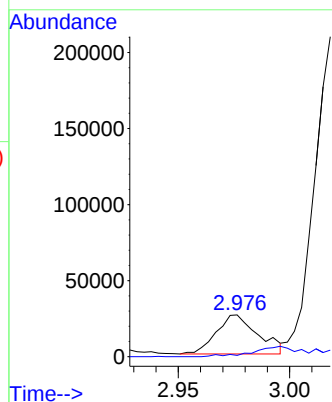
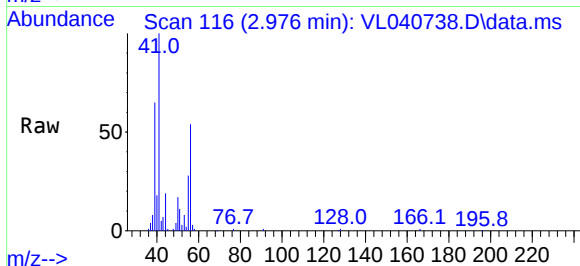




#16
1,3-Butadiene
Concen: 0.536 ppbv
RT: 2.976 min Scan# 115
Delta R.T. -0.013 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

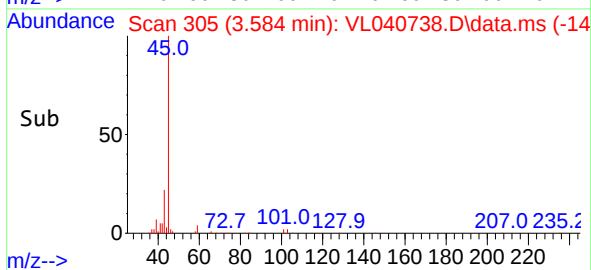
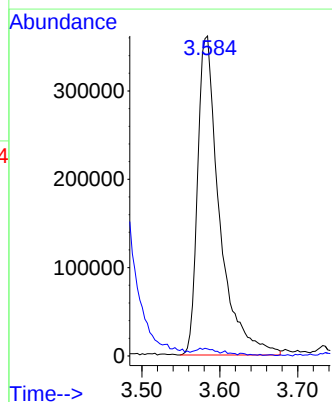
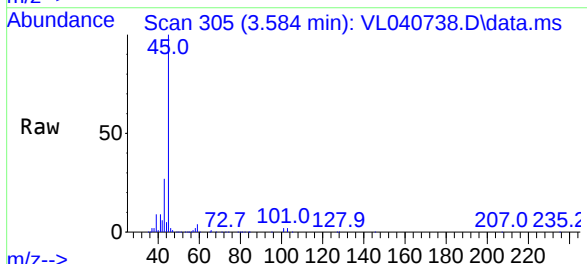
Instrument :
MSVOA_L
ClientSampleId :

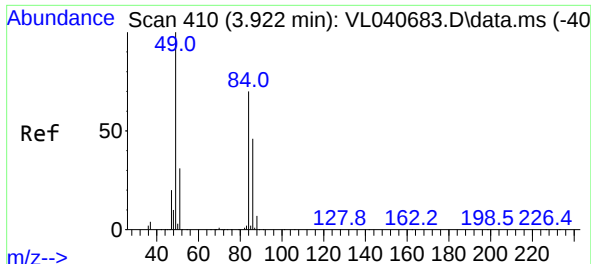
Tgt Ion: 39 Resp: 33302
Ion Ratio Lower Upper
39 100
54 44.4 64.8 97.2#



#19
Isopropyl Alcohol
Concen: 8.180 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.007 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 45 Resp: 702689
Ion Ratio Lower Upper
45 100
58 3.3 1.9 2.9#



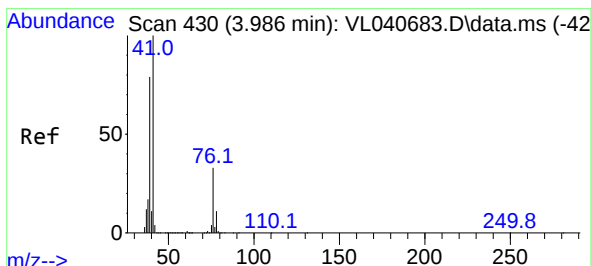
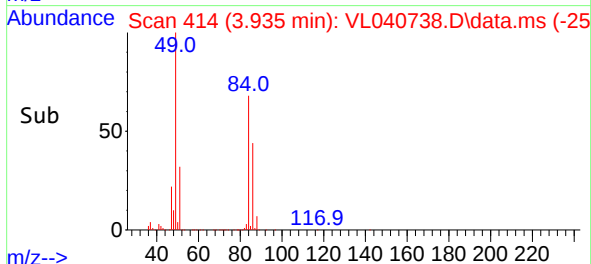
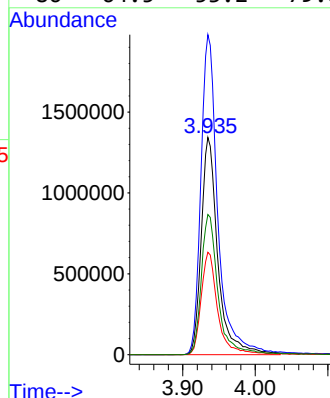
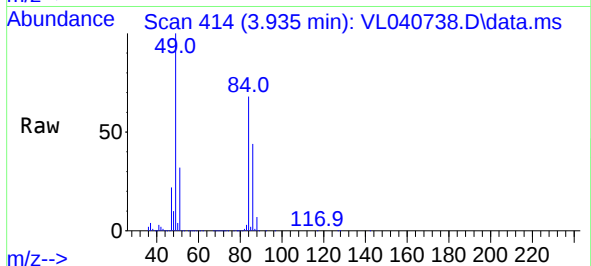


#20
Methylene Chloride
Concen: 27.919 ppbv
RT: 3.935 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 2142311

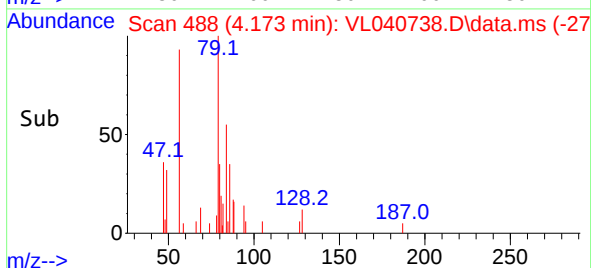
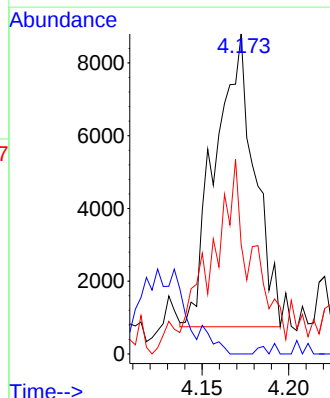
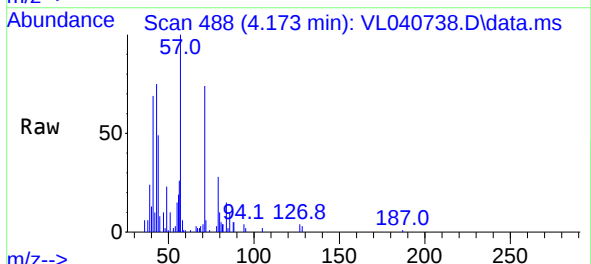
Ion	Ratio	Lower	Upper
84	100		
49	147.3	114.4	171.6
51	47.1	35.5	53.3
86	64.5	53.2	79.8

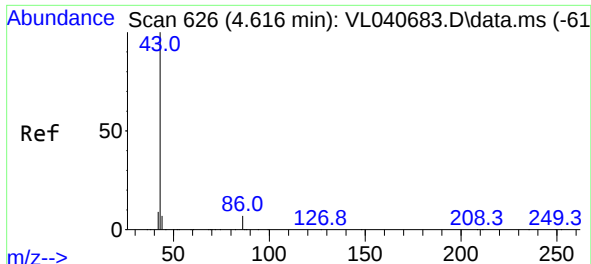


#21
Allyl Chloride
Concen: 0.146 ppbv
RT: 4.173 min Scan# 488
Delta R.T. 0.170 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 41 Resp: 12753

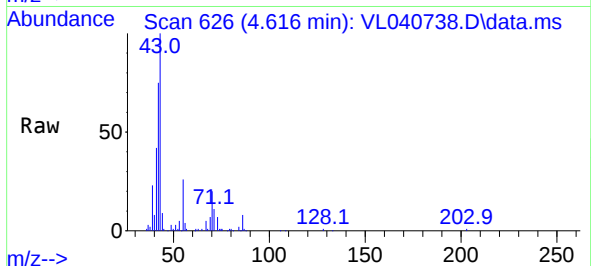
Ion	Ratio	Lower	Upper
41	100		
76	33.1	26.6	40.0
39	73.0	65.0	97.4



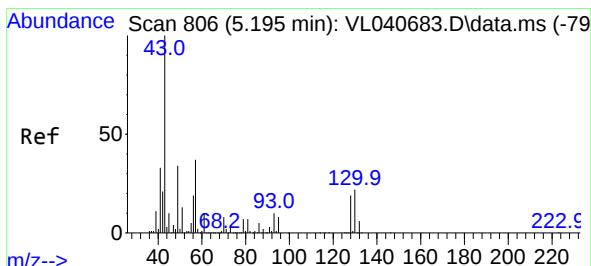
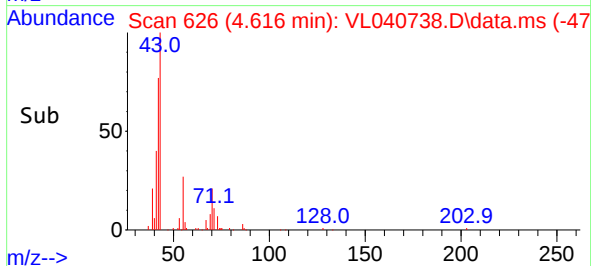
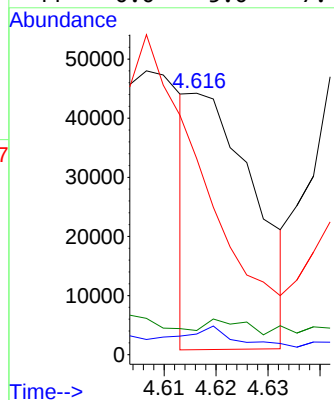


#23
 Vinyl Acetate
 Concen: 0.254 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

Instrument :
 MSVOA_L
 ClientSampleId :

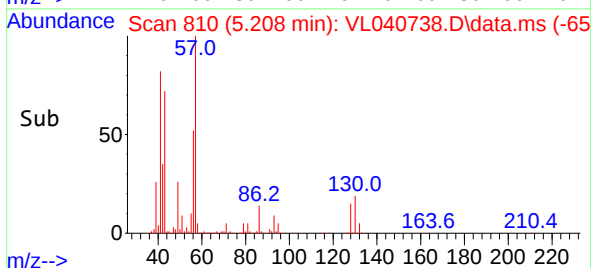
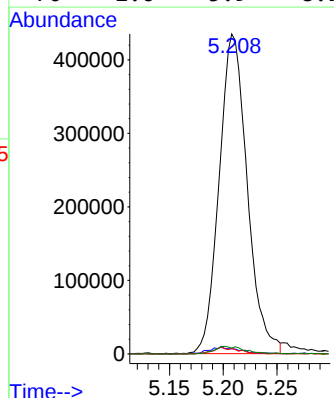
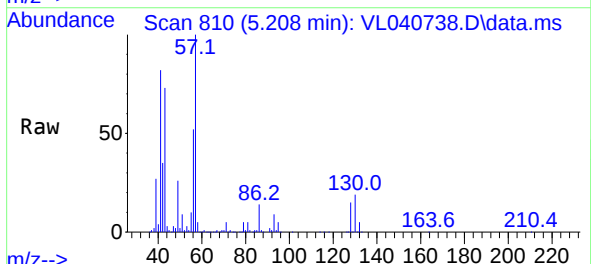


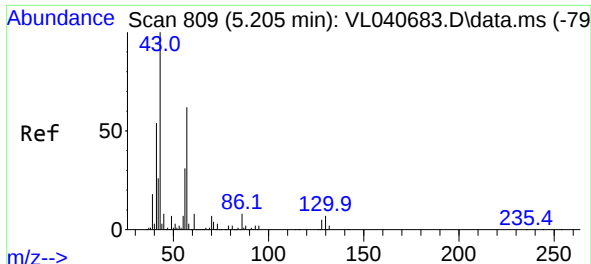
Tgt Ion: 43 Resp: 37376
 Ion Ratio Lower Upper
 43 100
 86 8.7 5.6 8.4#
 42 100.4 7.6 11.4#
 44 0.0 5.0 7.4#



#25
 Ethyl Acetate
 Concen: 3.434 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. -0.003 min
 Lab File: VL040738.D
 Acq: 4 Oct 2023 13:14

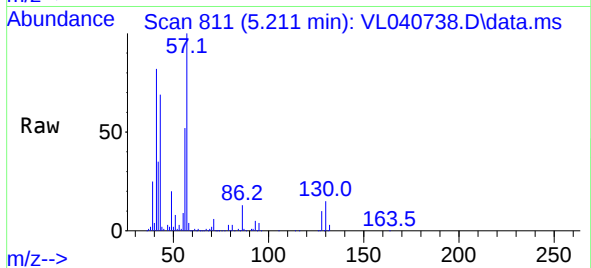
Tgt Ion: 43 Resp: 789491
 Ion Ratio Lower Upper
 43 100
 45 2.5 8.2 12.4#
 61 2.0 8.2 12.4#
 70 2.6 5.9 8.9#





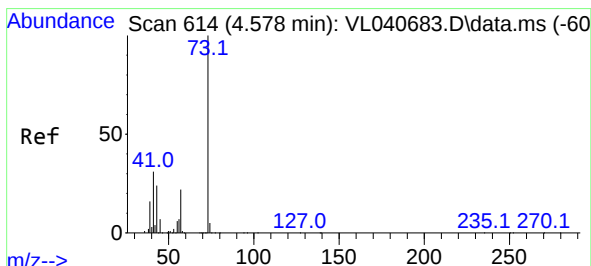
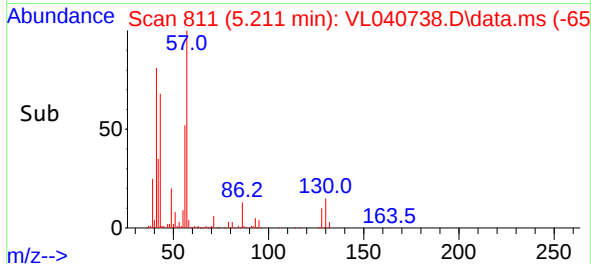
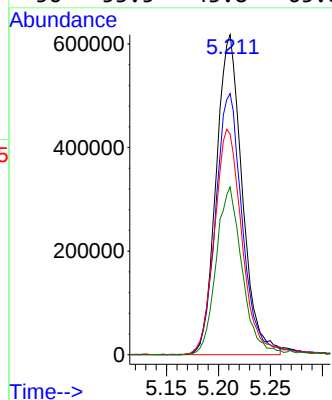
#26
Hexane
Concen: 9.927 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1079308

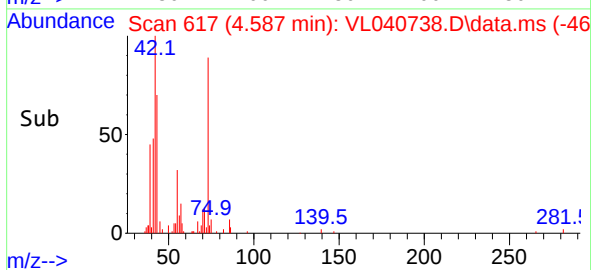
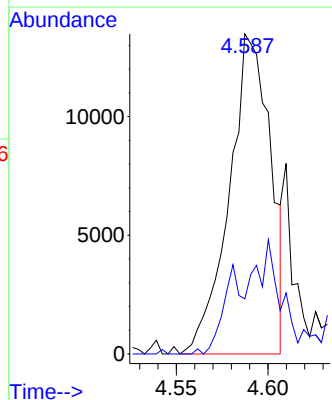
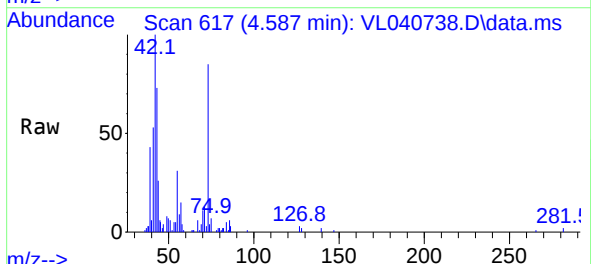
Ion	Ratio	Lower	Upper
57	100		
41	84.7	75.2	112.8
43	75.3	185.6	278.4#
56	53.5	43.8	65.8

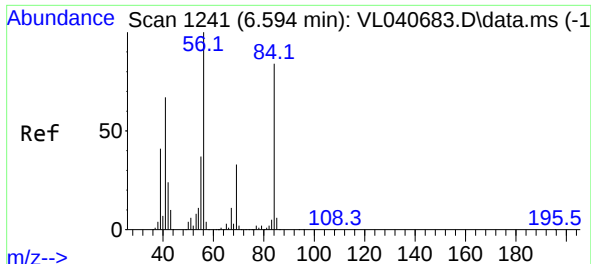


#28
Methyl tert-Butyl Ether
Concen: 0.225 ppbv
RT: 4.587 min Scan# 617
Delta R.T. -0.003 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 73 Resp: 21045

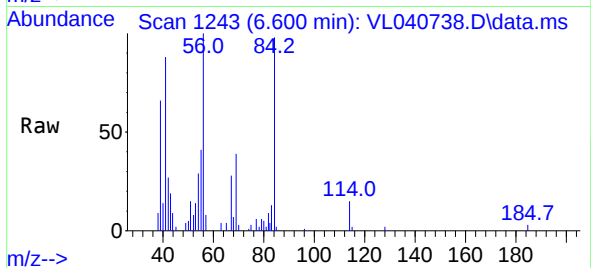
Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.8	28.2#



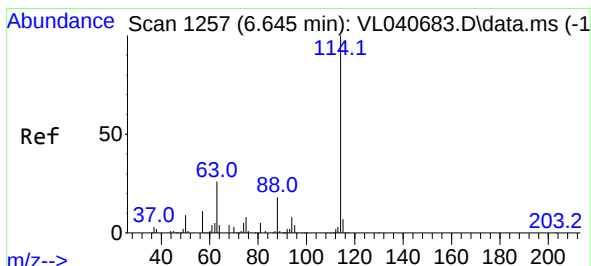
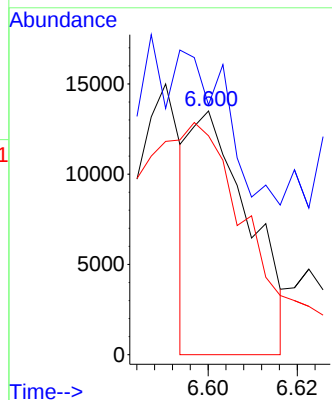
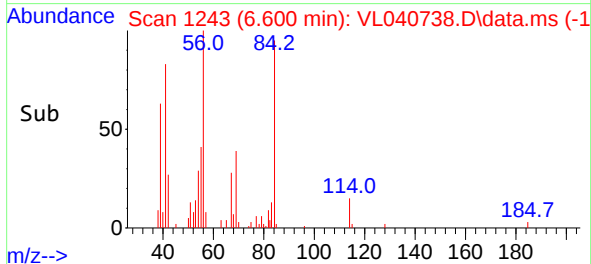


#30
Cyclohexane
Concen: 0.151 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. -0.010 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :

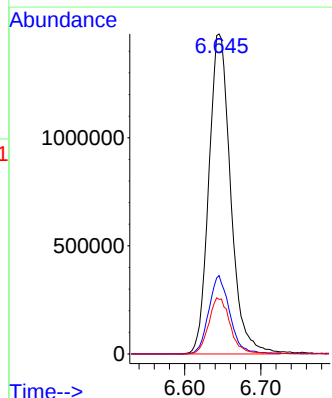
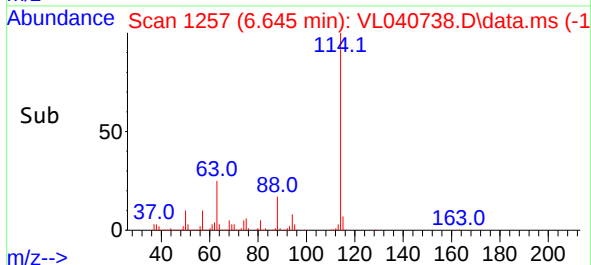
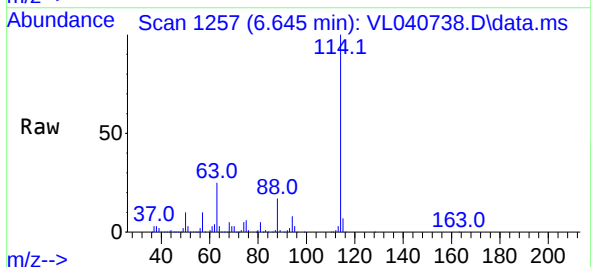


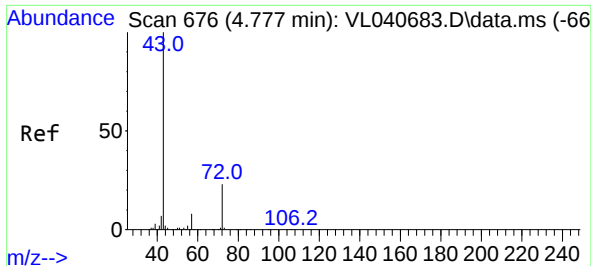
Tgt Ion: 84 Resp: 12335
Ion Ratio Lower Upper
84 100
56 0.0 103.2 154.8#
41 240.7 65.5 98.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.016 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 114 Resp: 2950878
Ion Ratio Lower Upper
114 100
63 24.0 21.1 31.7
88 17.5 14.5 21.7





#34

2-Butanone

Concen: 1.096 ppbv

RT: 4.793 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

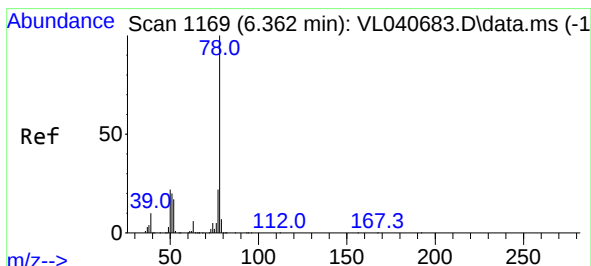
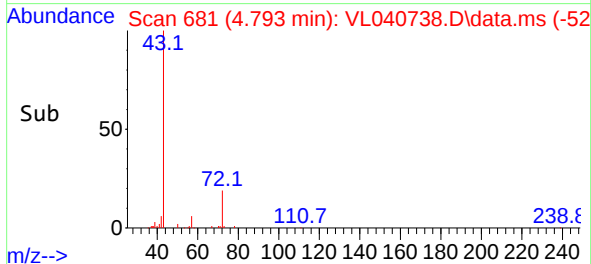
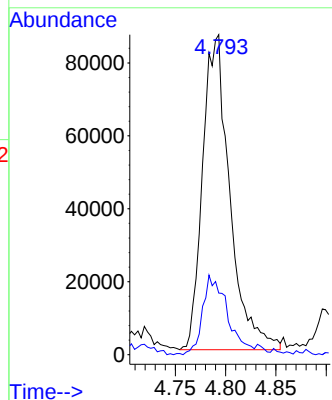
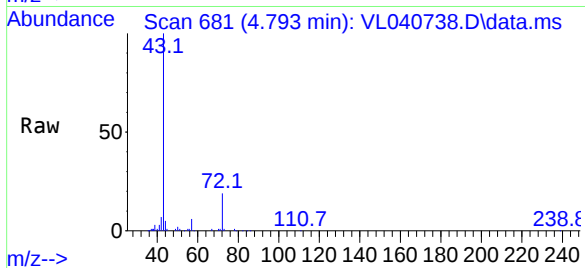
ClientSampleId :

Tgt Ion: 43 Resp: 162647

Ion Ratio Lower Upper

43 100

72 25.2 18.6 27.8



#36

Benzene

Concen: 0.736 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.019 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

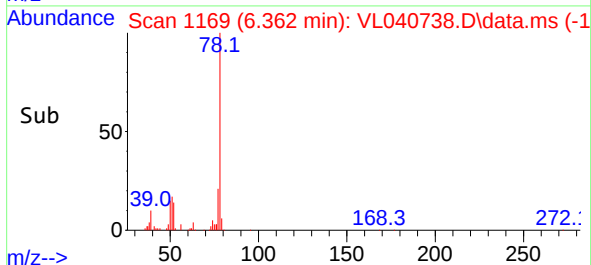
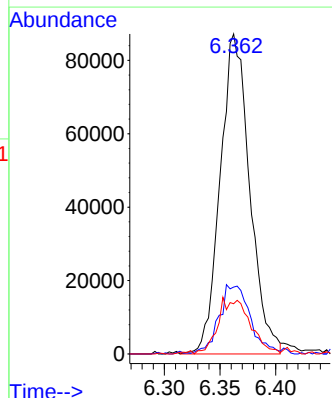
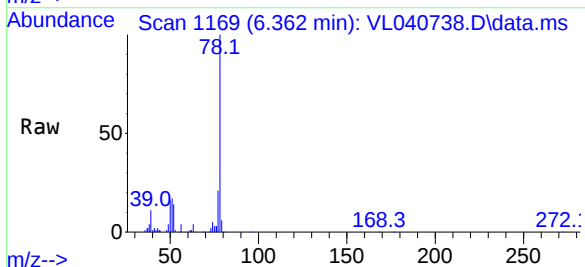
Tgt Ion: 78 Resp: 160722

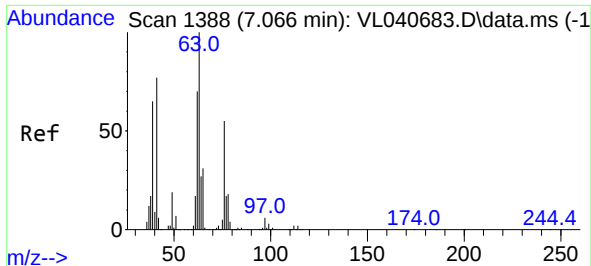
Ion Ratio Lower Upper

78 100

77 20.1 17.9 26.9

50 15.3 17.3 25.9#





#39

1,2-Dichloropropane

Concen: 8.136 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.437 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

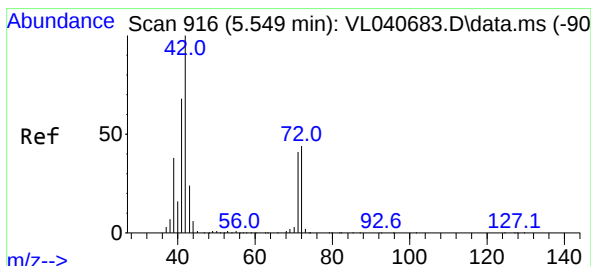
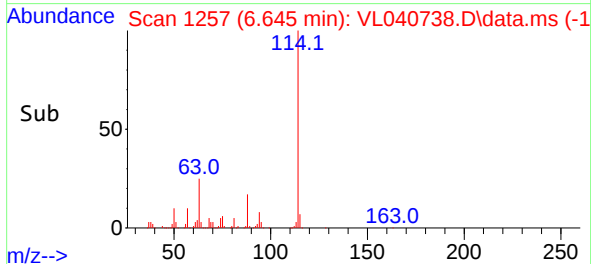
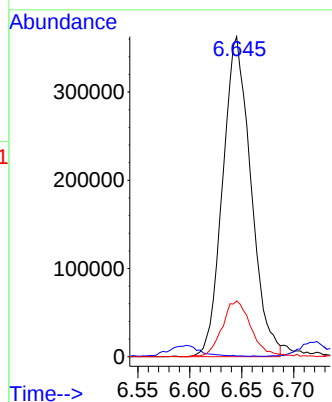
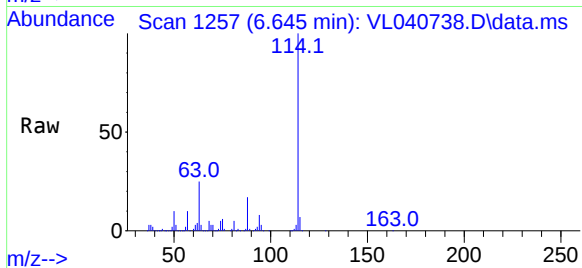
Tgt Ion: 63 Resp: 684337

Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 17.4 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.125 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.248 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

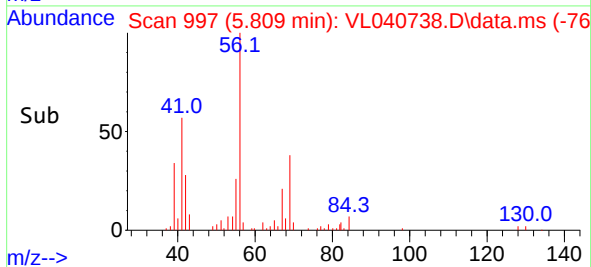
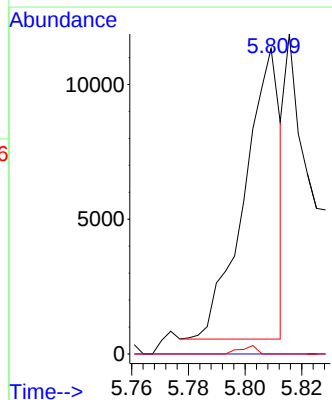
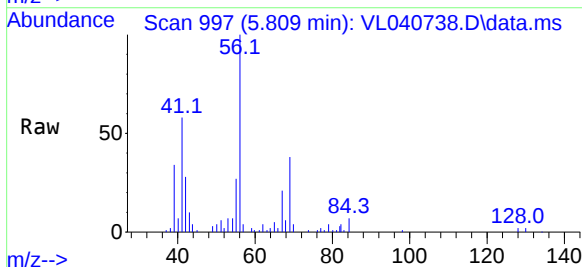
Tgt Ion: 42 Resp: 9537

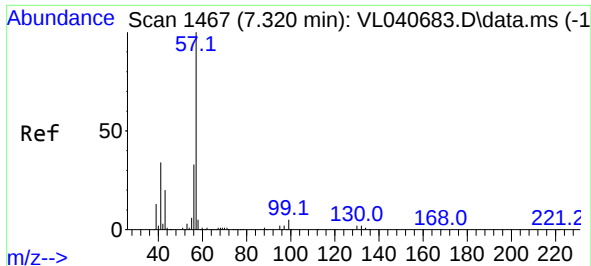
Ion Ratio Lower Upper

42 100

72 2.0 34.9 52.3#

71 0.0 33.8 50.8#





#44

2,2,4-Trimethylpentane

Concen: 0.556 ppbv

RT: 7.320 min Scan# 14

Delta R.T. -0.016 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

ClientSampleId :

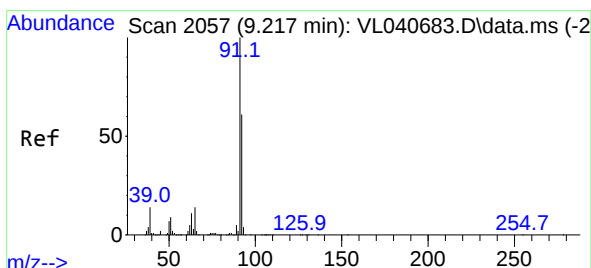
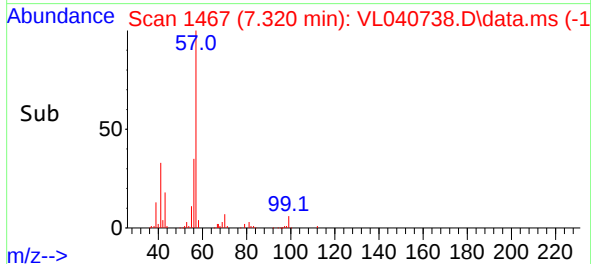
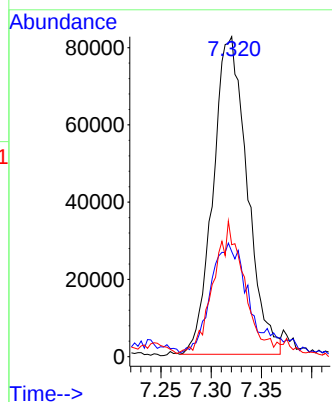
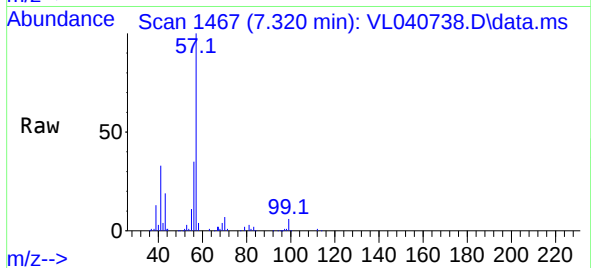
Tgt Ion: 57 Resp: 193605

Ion Ratio Lower Upper

57 100

41 44.6 28.5 42.7#

56 42.8 25.4 38.2#



#53

Toluene

Concen: 2.646 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. -0.022 min

Lab File: VL040738.D

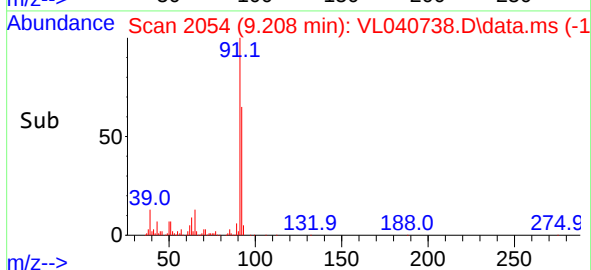
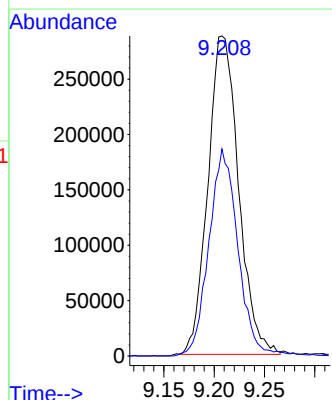
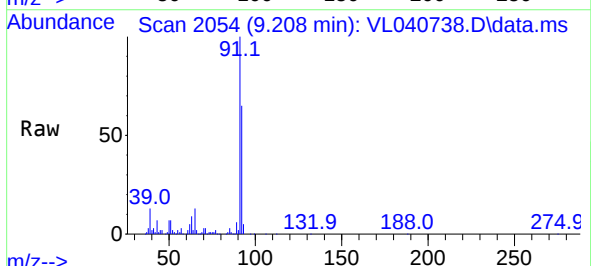
Acq: 4 Oct 2023 13:14

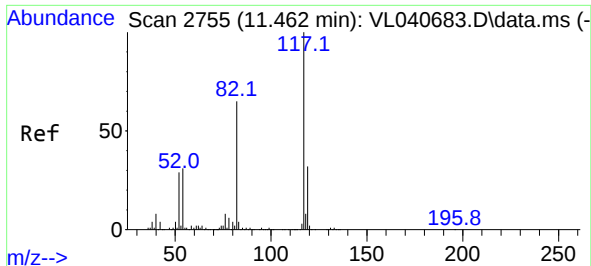
Tgt Ion: 91 Resp: 610536

Ion Ratio Lower Upper

91 100

92 61.7 48.5 72.7

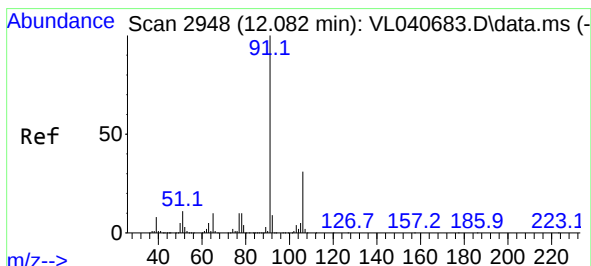
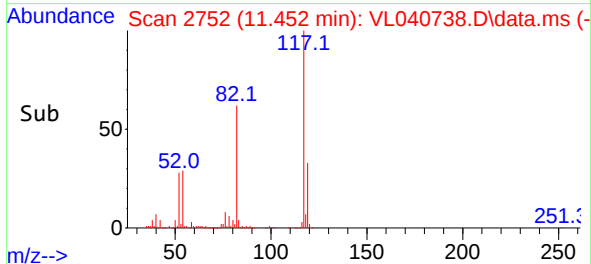
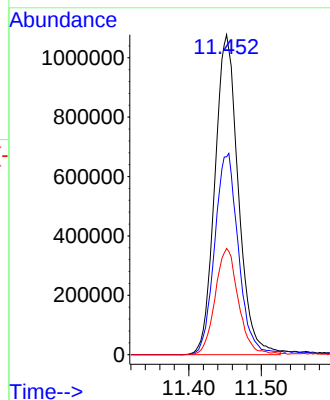
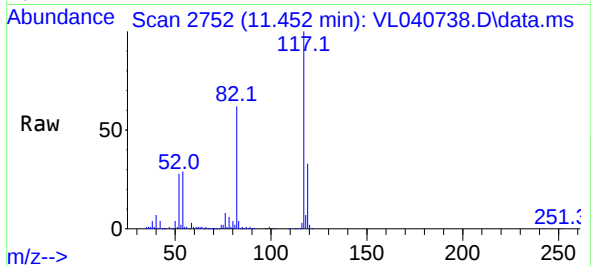




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

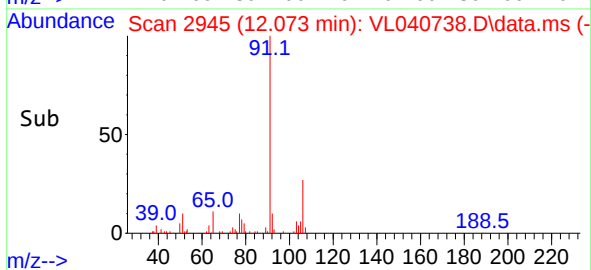
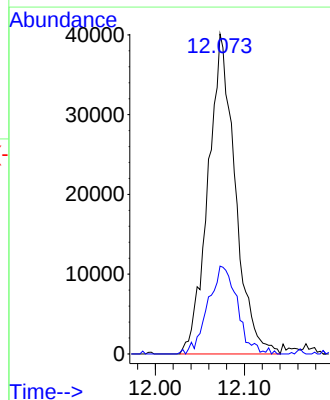
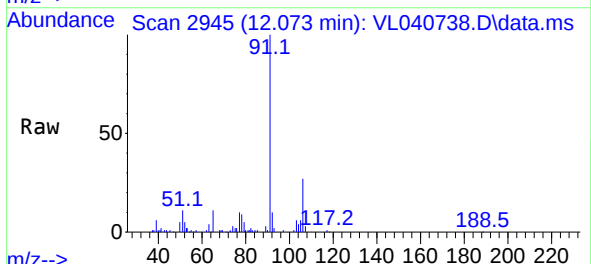
Instrument :
MSVOA_L
ClientSampleId :

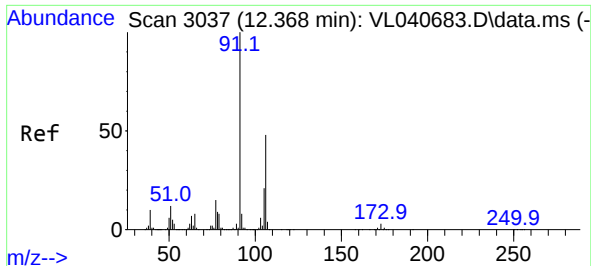
Tgt Ion:117 Resp: 2422255
Ion Ratio Lower Upper
117 100
82 65.3 51.4 77.0
119 33.0 24.7 37.1



#58
Ethyl Benzene
Concen: 0.307 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion: 91 Resp: 84804
Ion Ratio Lower Upper
91 100
106 27.5 24.7 37.1





#59

m/p-Xylene

Concen: 0.092 ppbv

RT: 12.359 min Scan# 3037

Delta R.T. -0.022 min

Lab File: VL040738.D

Acq: 4 Oct 2023 13:14

Instrument :

MSVOA_L

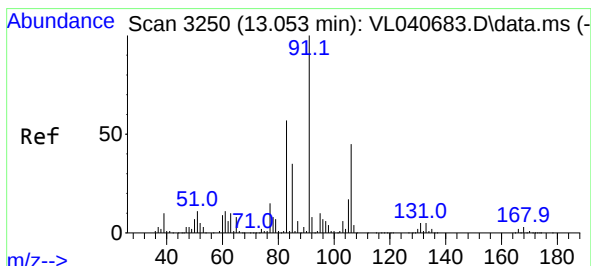
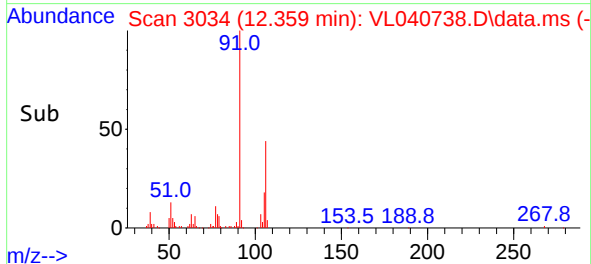
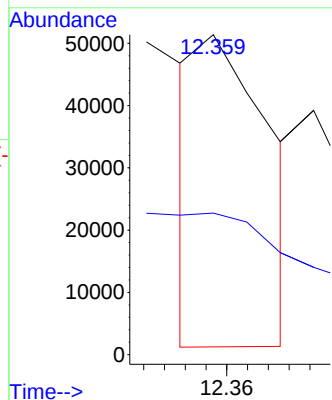
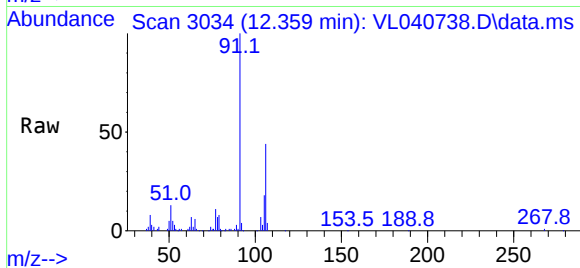
ClientSampleId :

Tgt Ion: 91 Resp: 23896

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#



#60

o-Xylene

Concen: 0.327 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.029 min

Lab File: VL040738.D

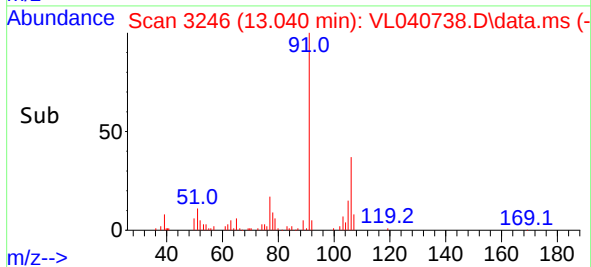
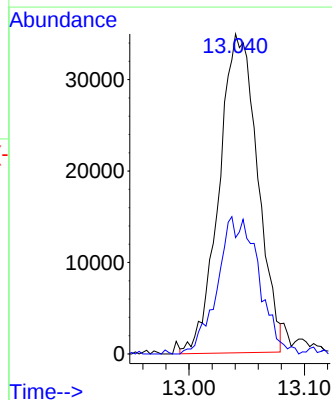
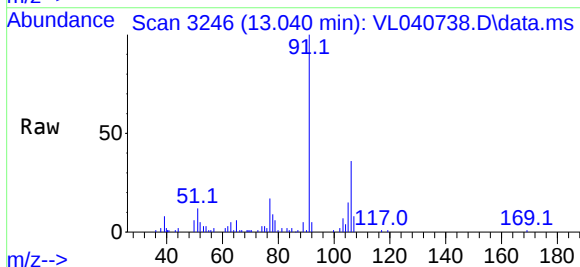
Acq: 4 Oct 2023 13:14

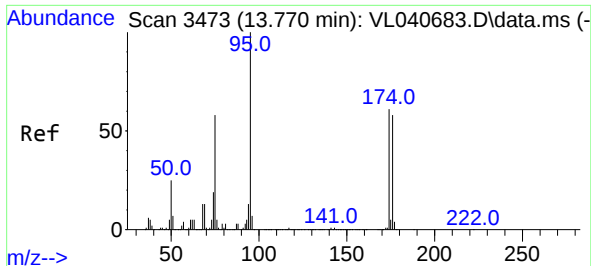
Tgt Ion: 91 Resp: 80868

Ion Ratio Lower Upper

91 100

106 46.5 22.3 66.9

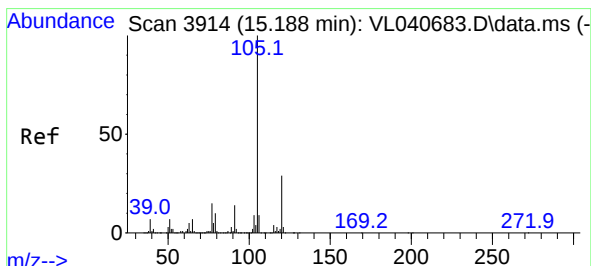
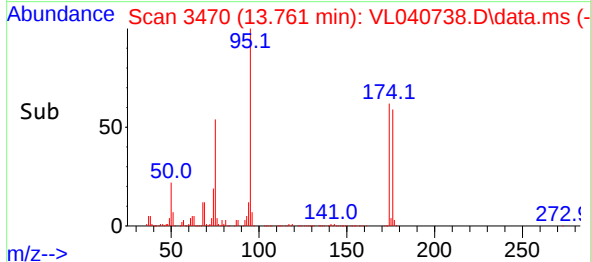
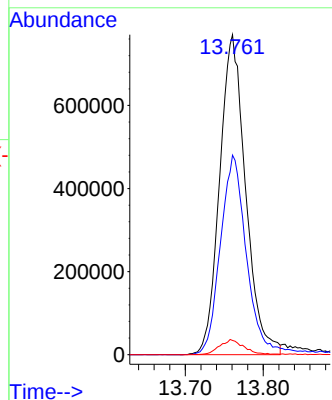
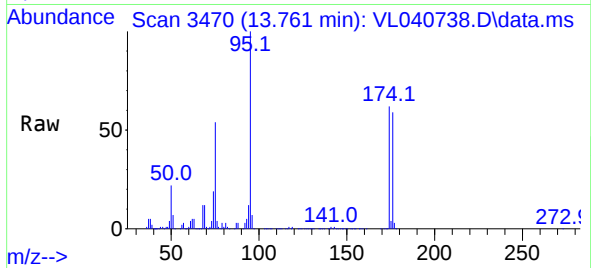




#68
1-Bromo-4-Fluorobenzene
Concen: 9.550 ppbv
RT: 13.761 min Scan# 3473
Delta R.T. -0.026 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

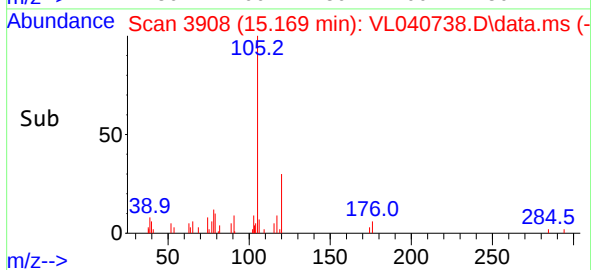
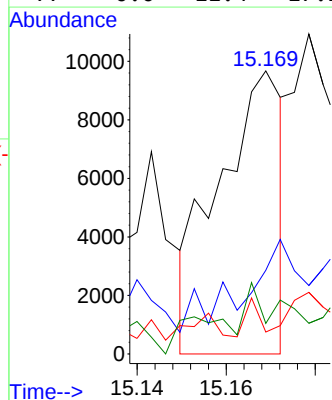
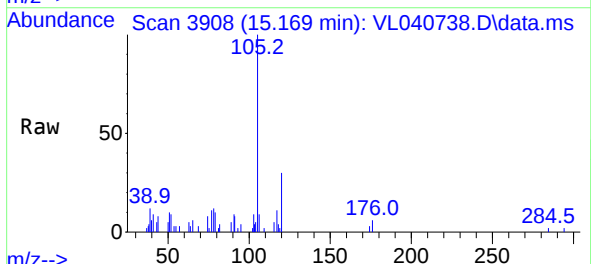
Instrument :
MSVOA_L
ClientSampleId :

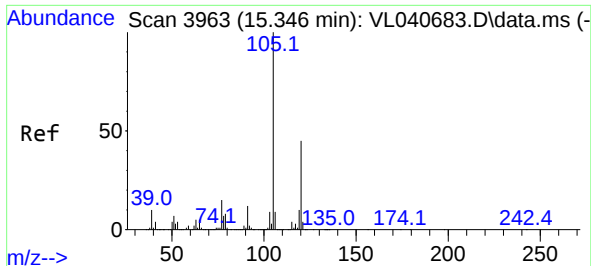
Tgt Ion: 95 Resp: 1787209
Ion Ratio Lower Upper
95 100
174 64.6 48.9 73.3
175 4.7 3.5 5.3



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 15.169 min Scan# 3908
Delta R.T. -0.032 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion:105 Resp: 9629
Ion Ratio Lower Upper
105 100
120 92.2 23.9 35.9#
91 0.0 11.0 16.4#
77 0.0 11.4 17.2#

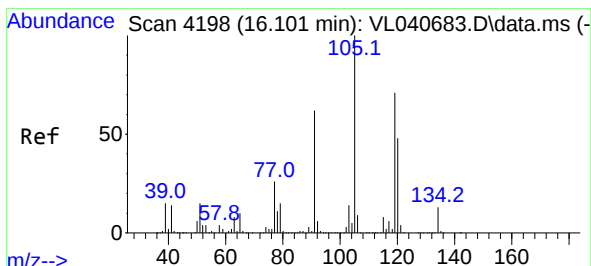
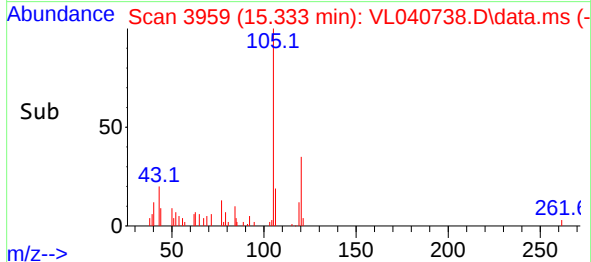
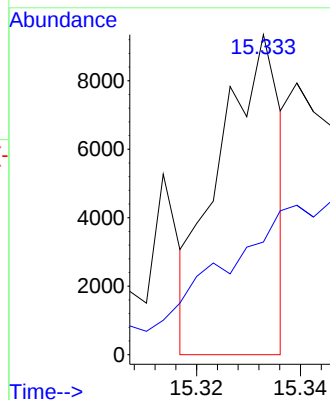
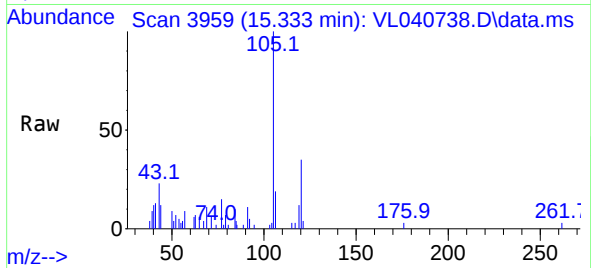




#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 15.333 min Scan# 3963
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 7634
Ion Ratio Lower Upper
105 100
120 28.5 36.1 54.1#



#74
1,2,4-Trimethylbenzene
Concen: 0.116 ppbv
RT: 16.088 min Scan# 4194
Delta R.T. -0.029 min
Lab File: VL040738.D
Acq: 4 Oct 2023 13:14

Tgt Ion:105 Resp: 35396
Ion Ratio Lower Upper
105 100
120 35.0 38.6 57.8#
91 12.6 50.0 75.0#
77 8.9 20.6 31.0#

