

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040708.D
 Acq On : 18 Sep 2023 21:01
 Operator : SY/MD
 Sample : 04403-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1DL

Quant Time: Sep 19 05:22:05 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)

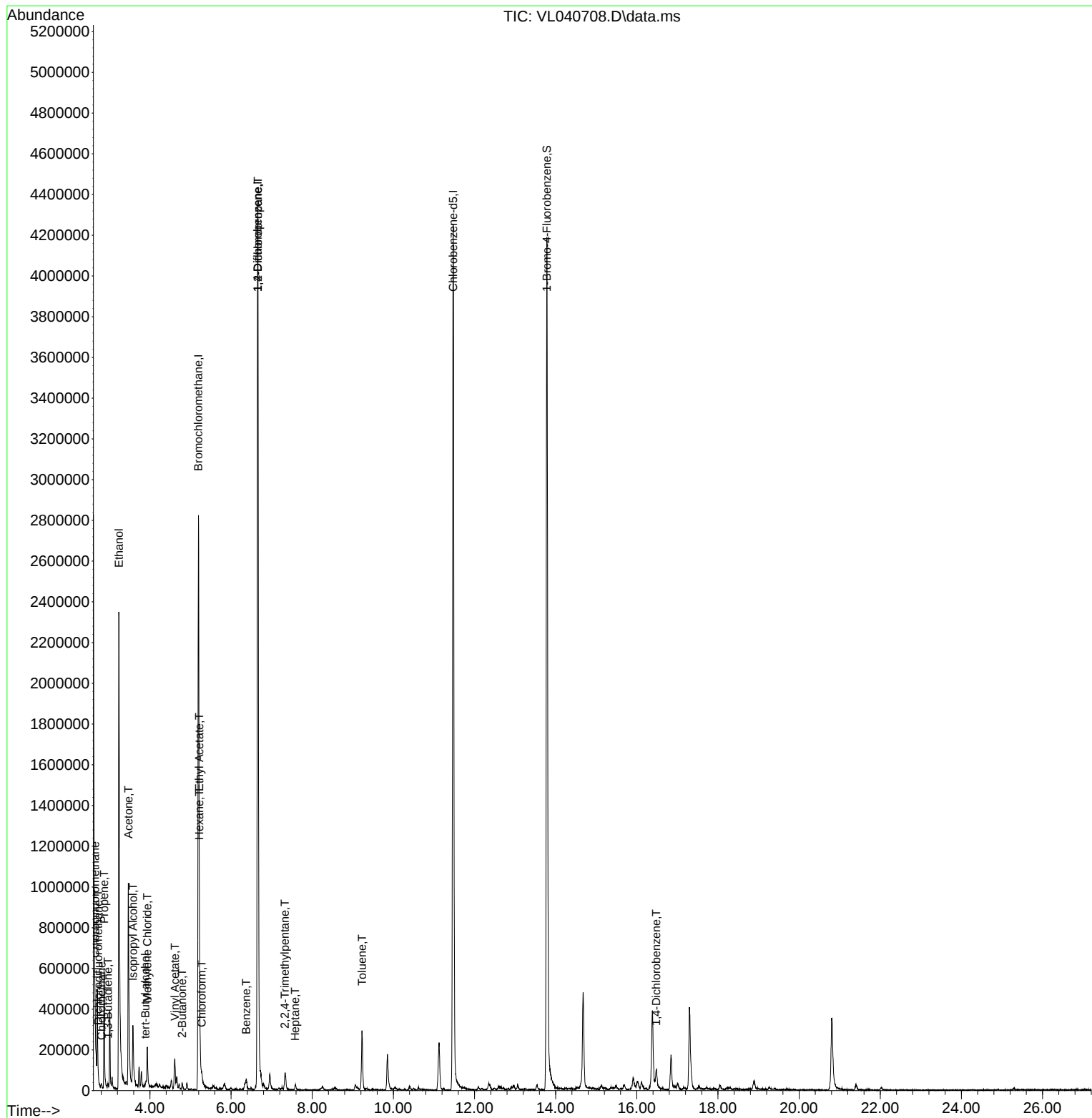
Internal Standards						
1) Bromochloromethane	5.195	49	1232744	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3301171	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2719223	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2040396	9.712	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	21101	0.078	ppbv	94
3) Chlorodifluoromethane	2.648	51	151702	0.755	ppbv #	73
4) Chloromethane	2.809	50	7360	0.096	ppbv #	76
9) Propene	2.870	41	125038	2.161	ppbv	87
10) Heptane	7.581	43	4560	0.035	ppbv #	16
13) Ethanol	3.234	45	2475624	144.567	ppbv	96
15) Acetone	3.468	43	1006297	6.189	ppbv	100
16) 1,3-Butadiene	2.967	39	4896	0.069	ppbv #	68
17) tert-Butyl alcohol	3.890	59	8548	0.051	ppbv #	71
19) Isopropyl Alcohol	3.581	45	283468	2.893	ppbv #	96
20) Methylene Chloride	3.935	84	62026	0.709	ppbv	96
23) Vinyl Acetate	4.619	43	50081	0.298	ppbv #	8
25) Ethyl Acetate	5.214	43	169179	0.645	ppbv #	96
26) Hexane	5.218	57	119538	0.964	ppbv #	67
29) Chloroform	5.275	83	19103	0.089	ppbv	91
34) 2-Butanone	4.793	43	17407	0.105	ppbv #	52
36) Benzene	6.372	78	18477	0.076	ppbv #	94
39) 1,2-Dichloropropane	6.661	63	810247	8.611	ppbv #	23
44) 2,2,4-Trimethylpentane	7.327	57	66512	0.171	ppbv #	80
53) Toluene	9.227	91	196081	0.760	ppbv	98
76) 1,4-Dichlorobenzene	16.481	146	7604	0.040	ppbv #	15

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

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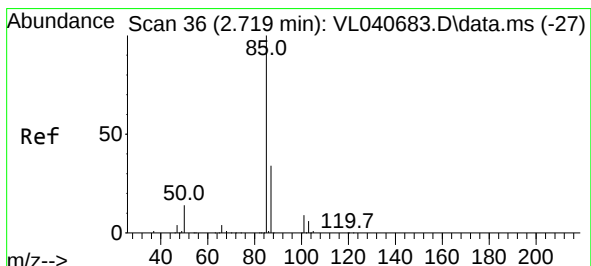
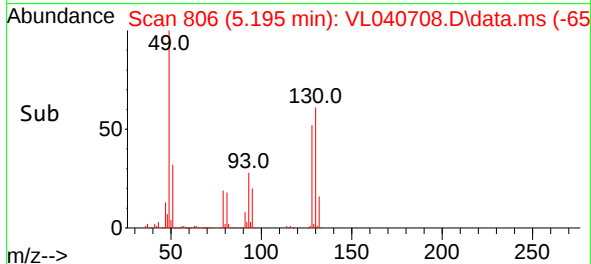
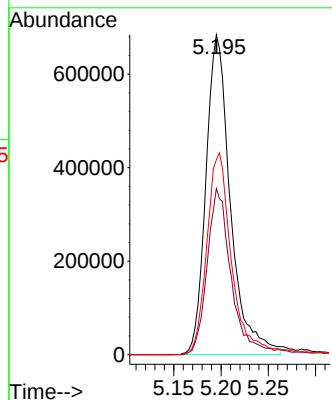
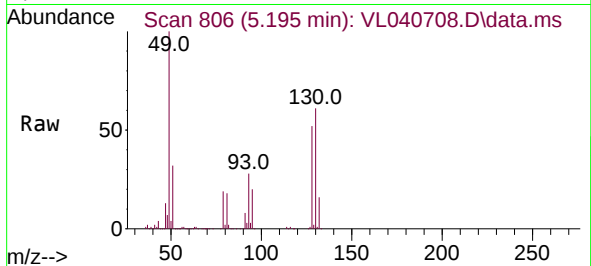




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

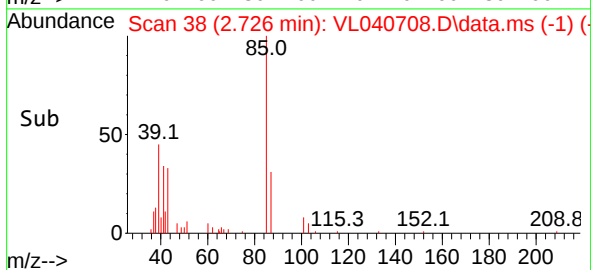
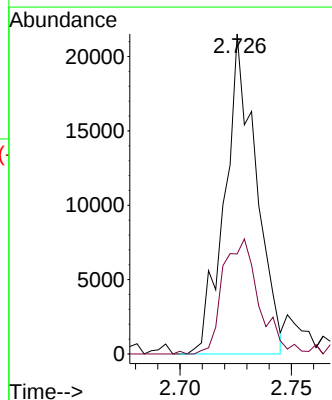
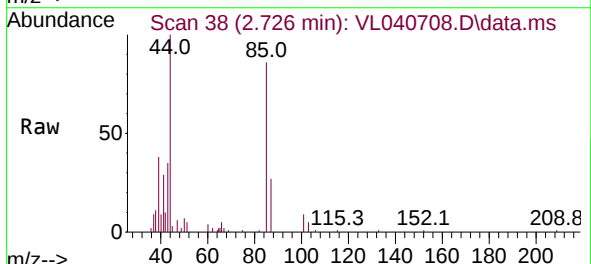
Instrument :
MSVOA_L
ClientSampleId :
29W-1DL

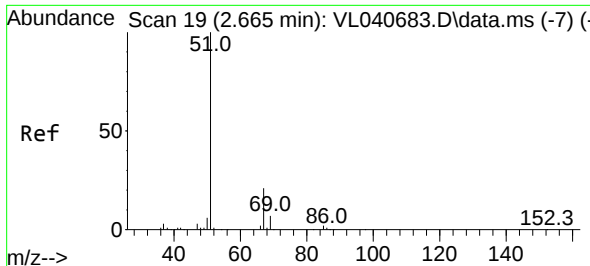
Tgt Ion: 49 Resp: 1232744
Ion Ratio Lower Upper
49 100
128 52.0 25.4 76.0
130 65.7 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.078 ppbv
RT: 2.726 min Scan# 38
Delta R.T. -0.006 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

Tgt Ion: 85 Resp: 21101
Ion Ratio Lower Upper
85 100
87 30.4 27.2 40.8

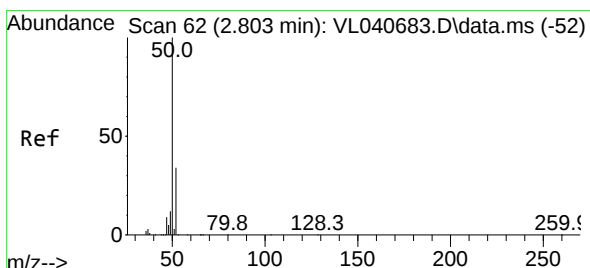
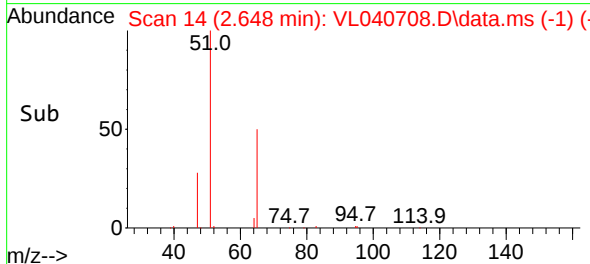
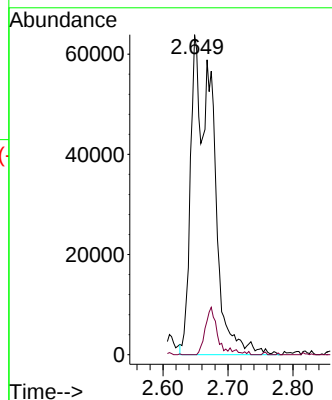
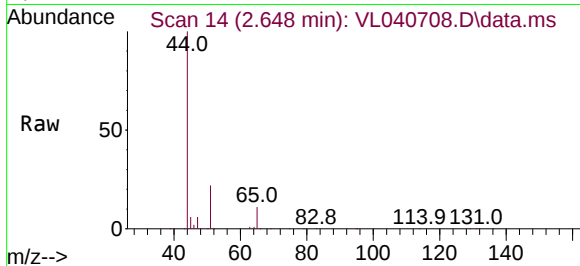




#3
Chlorodifluoromethane
Concen: 0.755 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.029 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

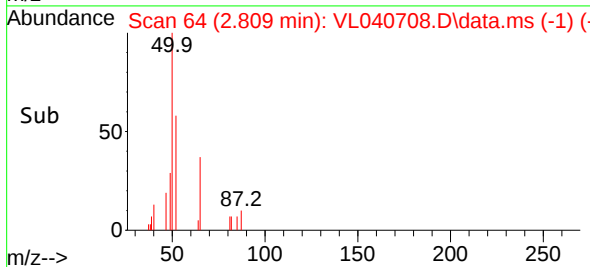
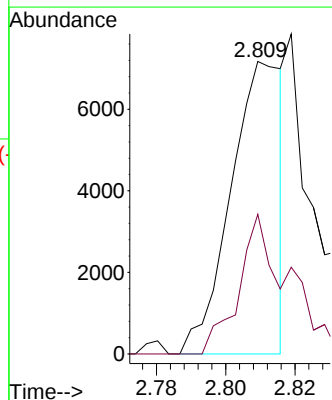
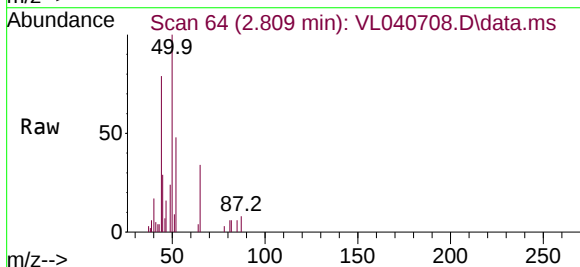
Instrument :
MSVOA_L
ClientSampleId :
29W-1DL

Tgt Ion: 51 Resp: 151702
Ion Ratio Lower Upper
51 100
67 8.4 16.7 25.1#

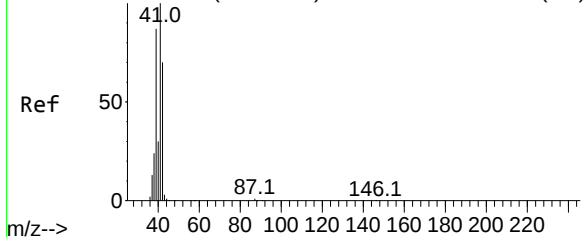


#4
Chloromethane
Concen: 0.096 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.006 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

Tgt Ion: 50 Resp: 7360
Ion Ratio Lower Upper
50 100
52 47.8 27.1 40.7#



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



#9

Propene

Concen: 2.161 ppbv

RT: 2.870 min Scan# 81

Delta R.T. 0.174 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

29W-1DL

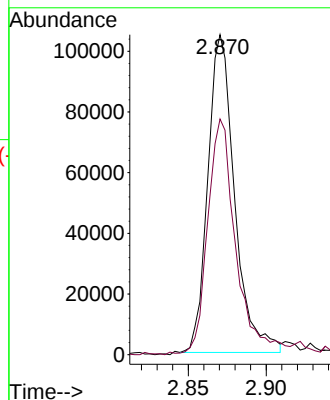
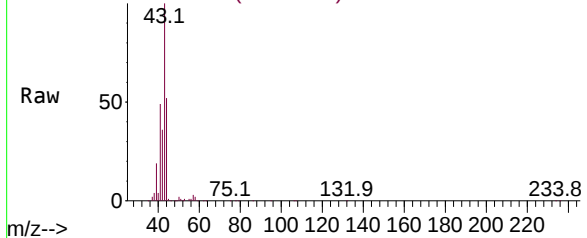
Tgt Ion: 41 Resp: 125038

Ion Ratio Lower Upper

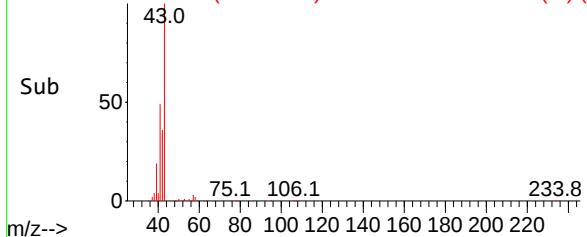
41 100

42 82.0 56.7 85.1

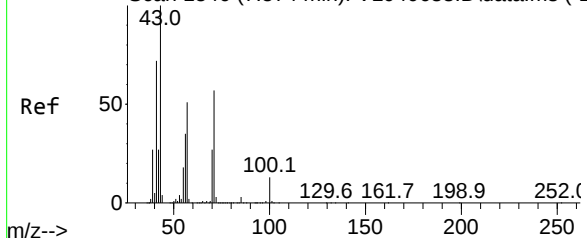
Abundance Scan 83 (2.870 min): VL040708.D\data.ms



Abundance Scan 83 (2.870 min): VL040708.D\data.ms (-1)



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



#10

Heptane

Concen: 0.035 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.006 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

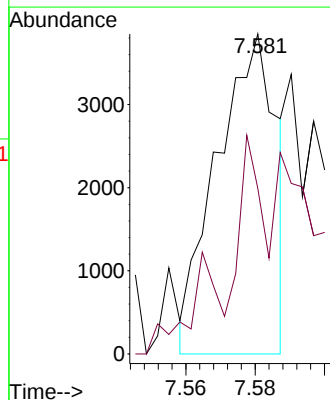
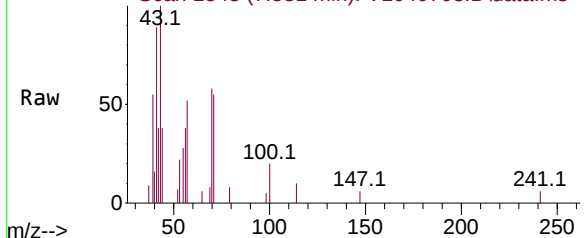
Tgt Ion: 43 Resp: 4560

Ion Ratio Lower Upper

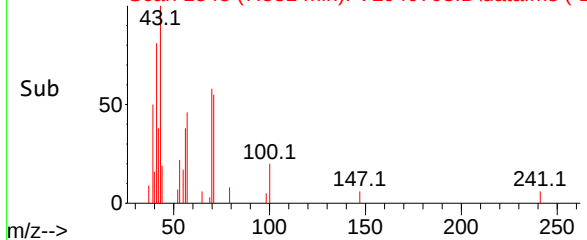
43 100

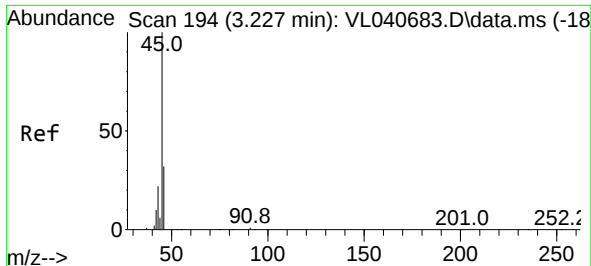
57 111.6 41.8 62.6#

Abundance Scan 1548 (7.581 min): VL040708.D\data.ms



Abundance Scan 1548 (7.581 min): VL040708.D\data.ms (-1)





#13

Ethanol

Concen: 144.567 ppbv

RT: 3.234 min Scan# 196

Delta R.T. -0.010 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

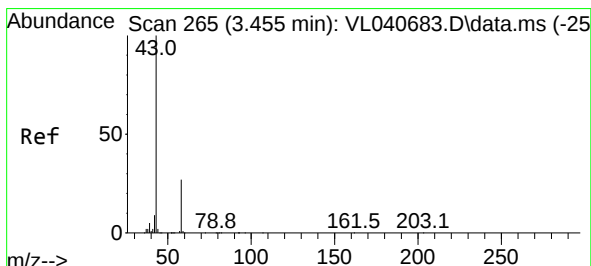
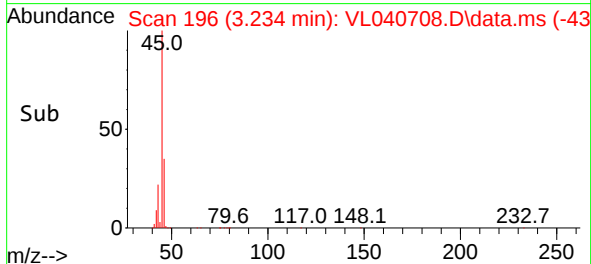
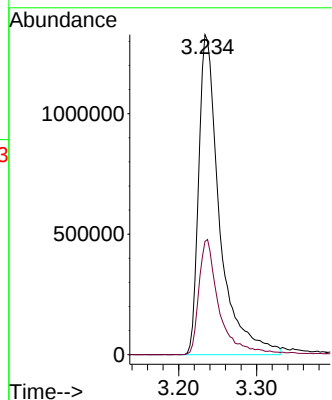
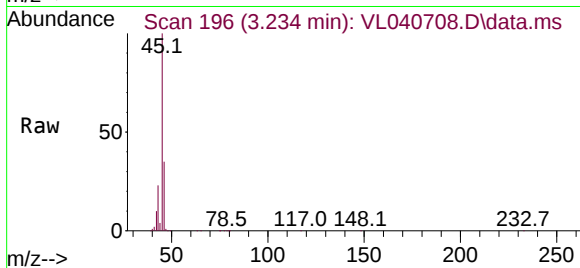
29W-1DL

Tgt Ion: 45 Resp: 2475624

Ion Ratio Lower Upper

45 100

46 35.9 15.2 61.0



#15

Acetone

Concen: 6.189 ppbv

RT: 3.468 min Scan# 269

Delta R.T. -0.003 min

Lab File: VL040708.D

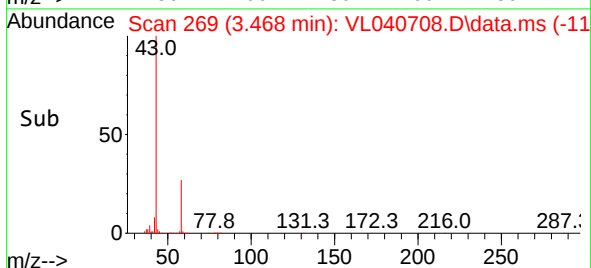
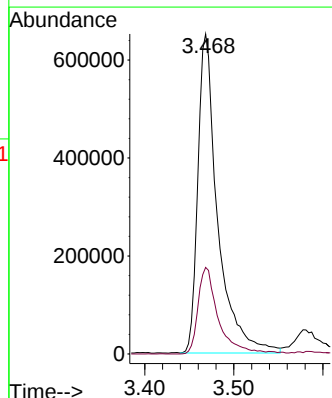
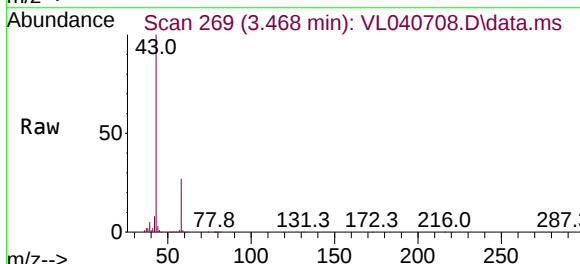
Acq: 18 Sep 2023 21:01

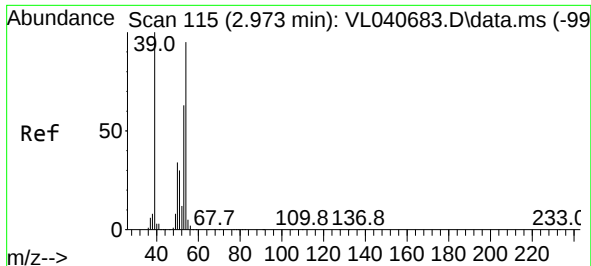
Tgt Ion: 43 Resp: 1006297

Ion Ratio Lower Upper

43 100

58 28.1 22.6 34.0





#16

1,3-Butadiene

Concen: 0.069 ppbv

RT: 2.967 min Scan# 115

Delta R.T. -0.022 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

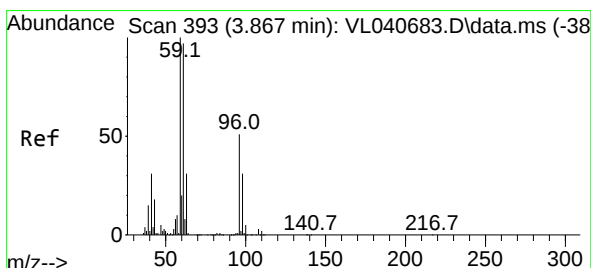
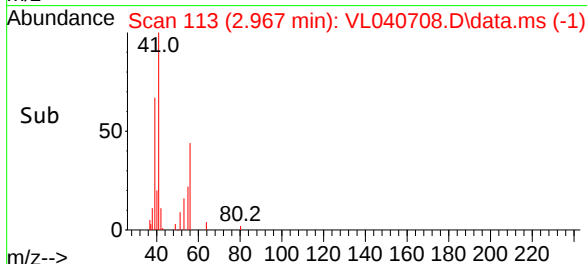
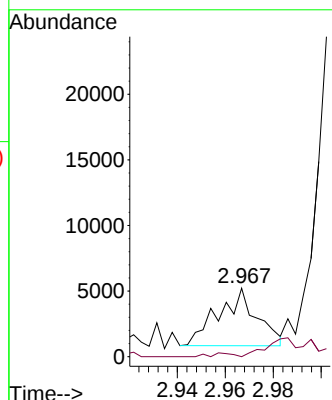
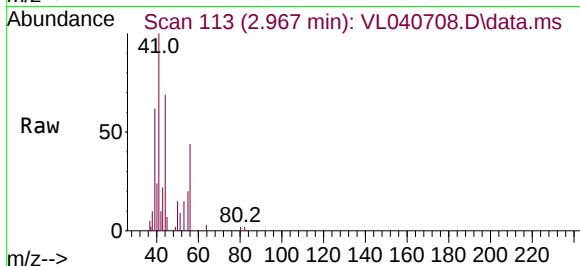
29W-1DL

Tgt Ion: 39 Resp: 4896

Ion Ratio Lower Upper

39 100

54 52.4 64.8 97.2#



#17

tert-Butyl alcohol

Concen: 0.051 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.007 min

Lab File: VL040708.D

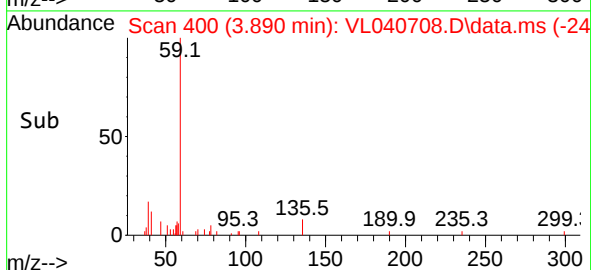
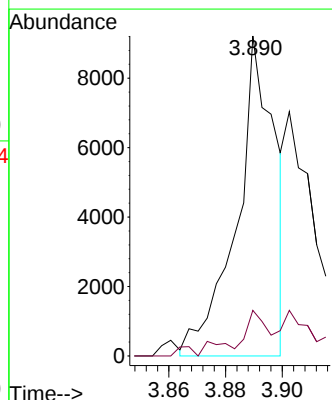
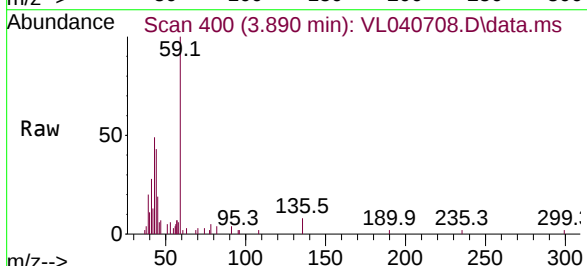
Acq: 18 Sep 2023 21:01

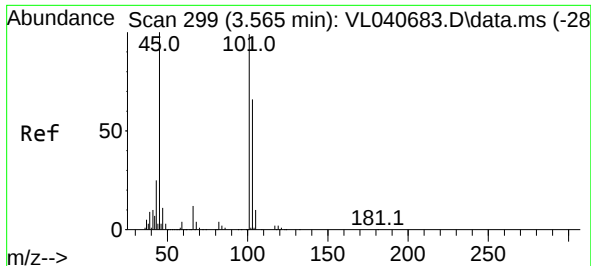
Tgt Ion: 59 Resp: 8548

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

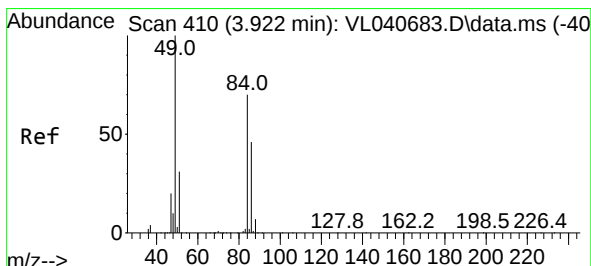
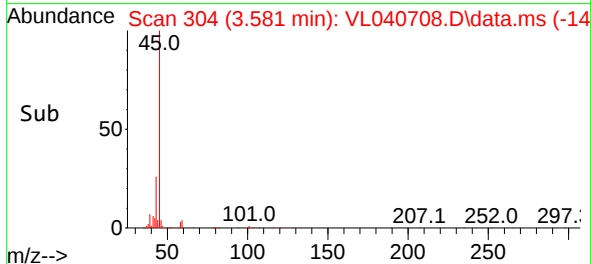
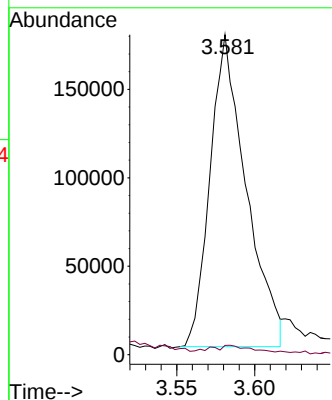
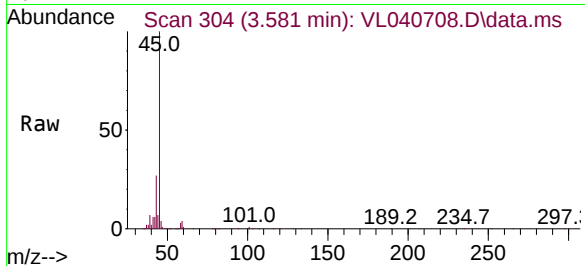




#19
Isopropyl Alcohol
Concen: 2.893 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.003 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

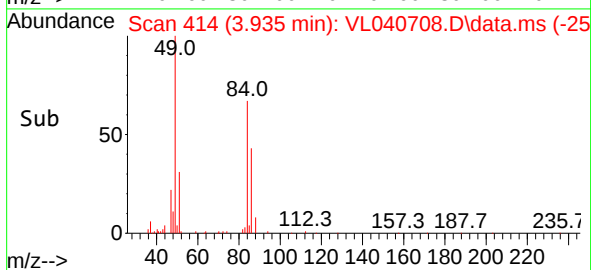
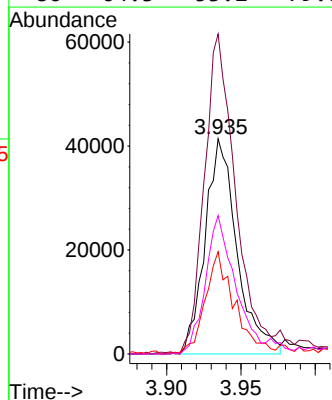
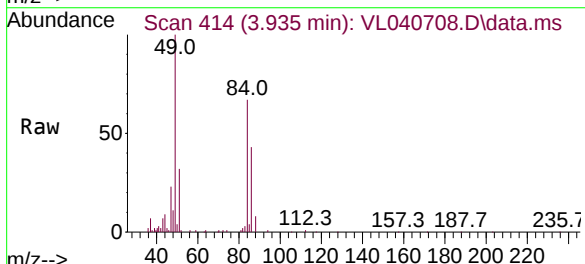
Instrument :
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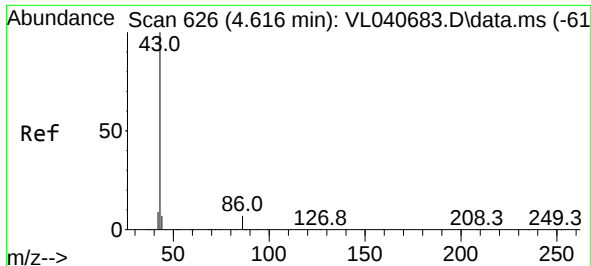
Tgt Ion: 45 Resp: 283468
Ion Ratio Lower Upper
45 100
58 3.9 1.9 2.9#



#20
Methylene Chloride
Concen: 0.709 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.003 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

Tgt Ion: 84 Resp: 62026
Ion Ratio Lower Upper
84 100
49 148.7 114.4 171.6
51 46.7 35.5 53.3
86 64.3 53.2 79.8

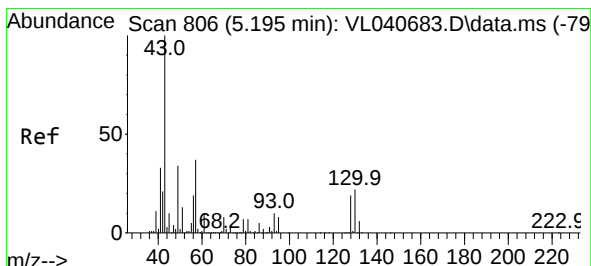
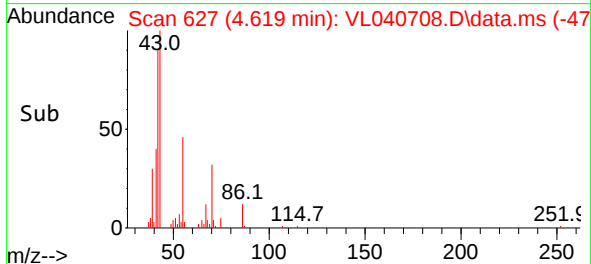
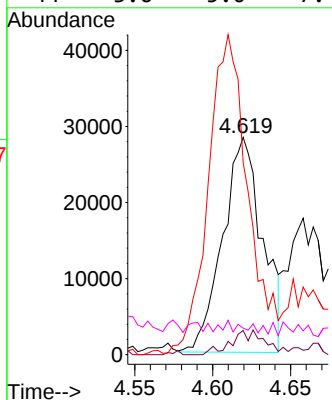
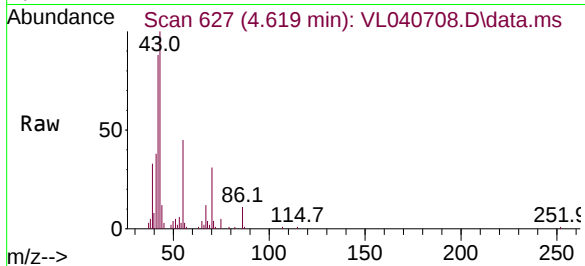




#23
 Vinyl Acetate
 Concen: 0.298 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040708.D
 Acq: 18 Sep 2023 21:01

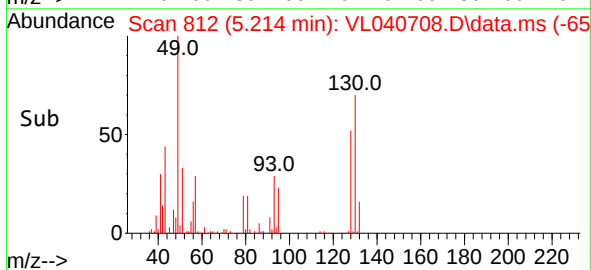
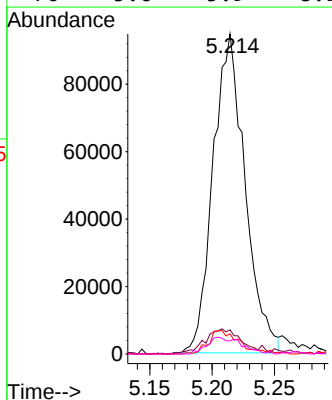
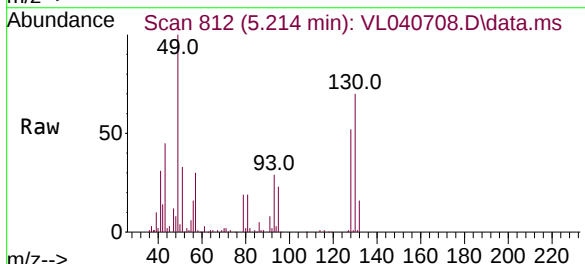
Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1DL

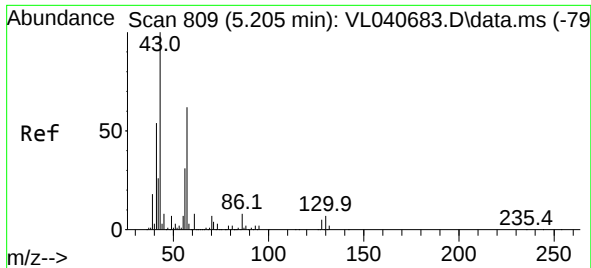
Tgt Ion: 43	Resp: 50081
Ion Ratio	Lower Upper
43 100	
86 9.9	5.6 8.4#
42 85.5	7.6 11.4#
44 3.6	5.0 7.4#



#25
 Ethyl Acetate
 Concen: 0.645 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL040708.D
 Acq: 18 Sep 2023 21:01

Tgt	Ion: 43	Resp:	169179
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.4
61	7.3	8.2	12.4#
70	5.6	5.9	8.9#

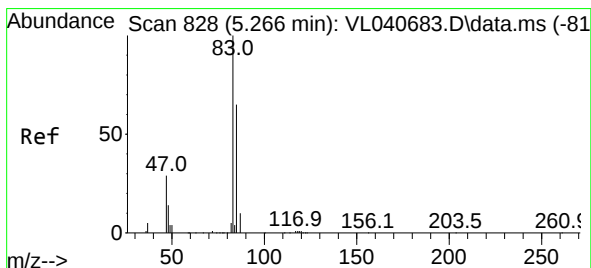
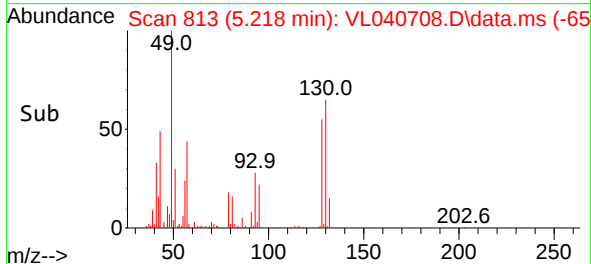
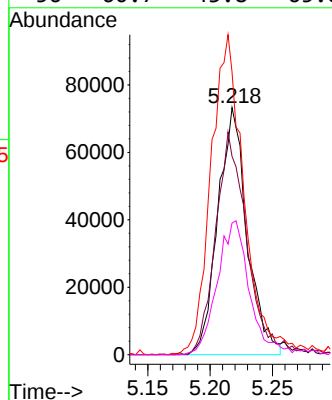
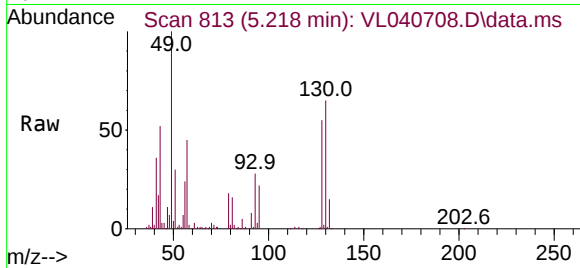




#26
Hexane
Concen: 0.964 ppbv
RT: 5.218 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

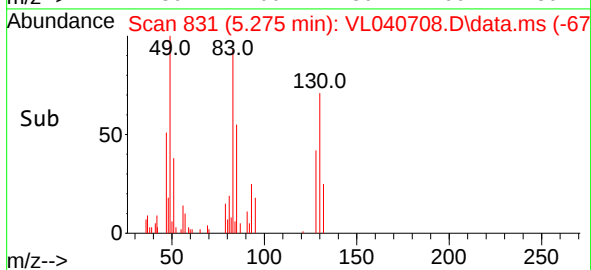
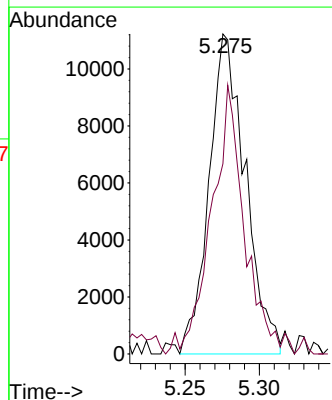
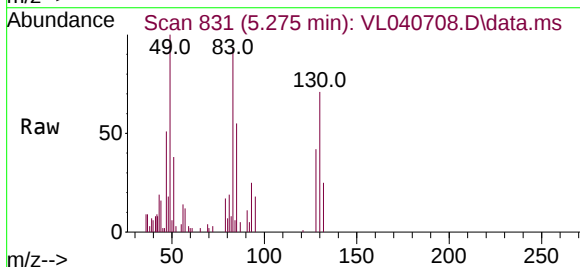
Instrument :
MSVOA_L
ClientSampleId :
29W-1DL

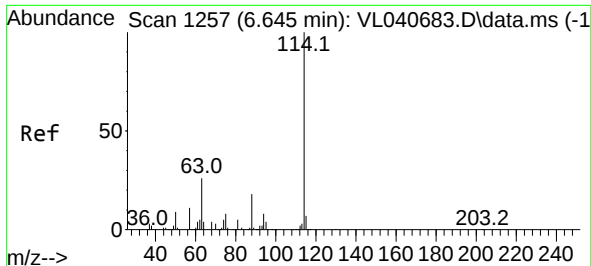
Tgt Ion: 57 Resp: 119538
Ion Ratio Lower Upper
57 100
41 98.4 75.2 112.8
43 148.6 185.6 278.4#
56 60.7 43.8 65.8



#29
Chloroform
Concen: 0.089 ppbv
RT: 5.275 min Scan# 831
Delta R.T. -0.006 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

Tgt Ion: 83 Resp: 19103
Ion Ratio Lower Upper
83 100
85 57.9 51.8 77.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

29W-1DL

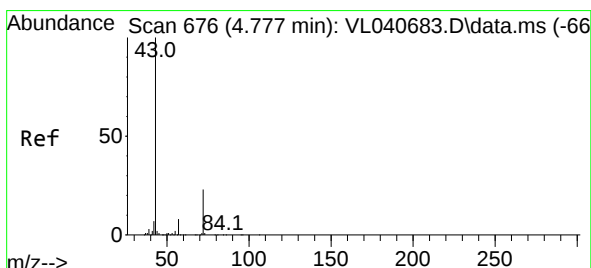
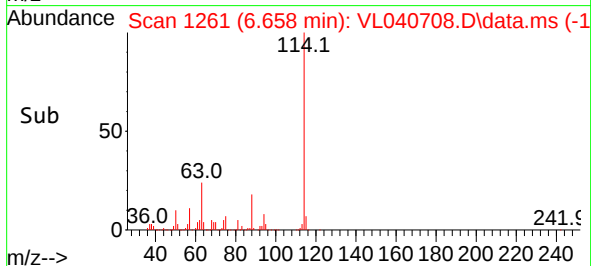
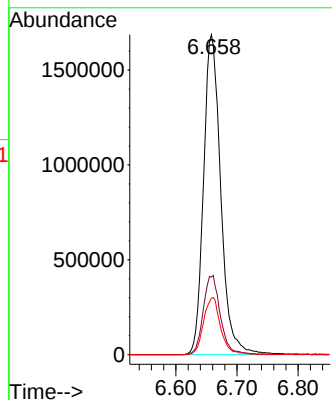
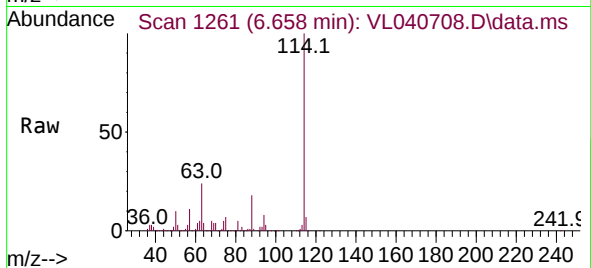
Tgt Ion:114 Resp: 3301171

Ion Ratio Lower Upper

114 100

63 24.9 21.1 31.7

88 17.8 14.5 21.7



#34

2-Butanone

Concen: 0.105 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.003 min

Lab File: VL040708.D

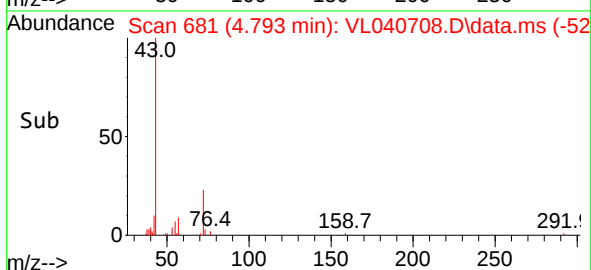
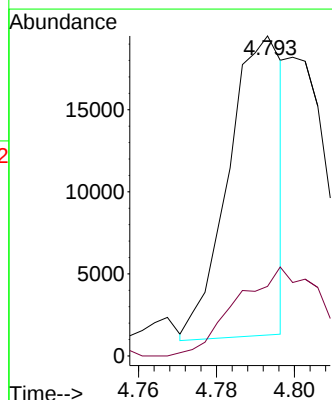
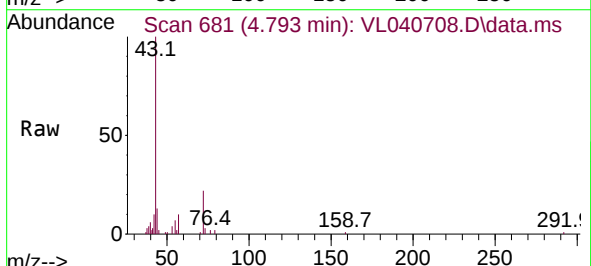
Acq: 18 Sep 2023 21:01

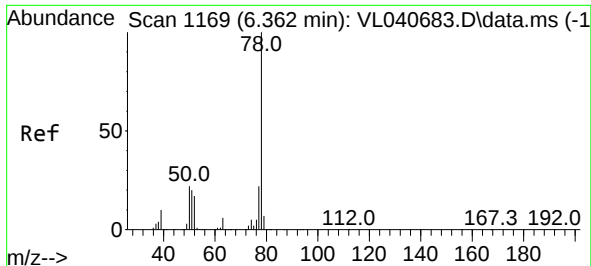
Tgt Ion: 43 Resp: 17407

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#

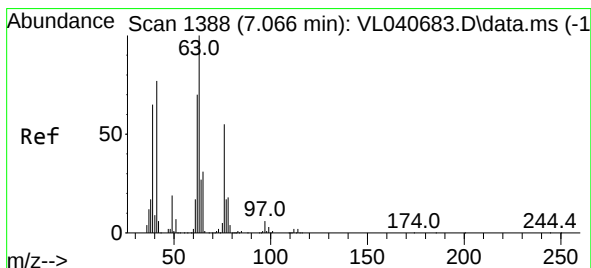
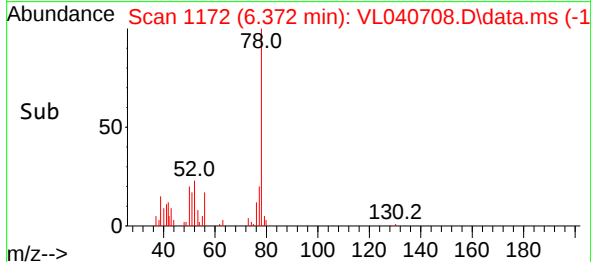
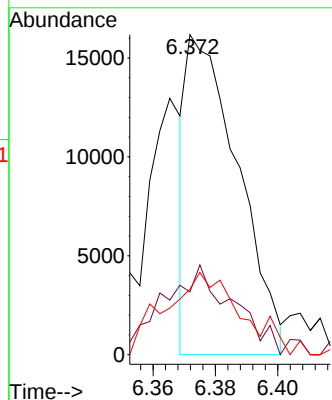
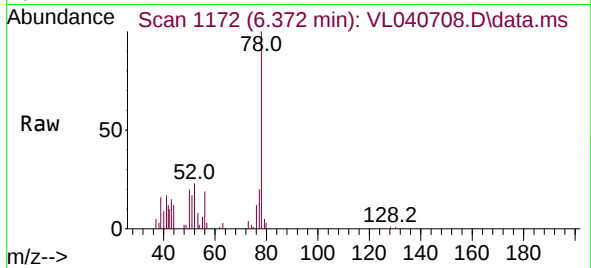




#36
Benzene
Concen: 0.076 ppbv
RT: 6.372 min Scan# 1169
Delta R.T. -0.010 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

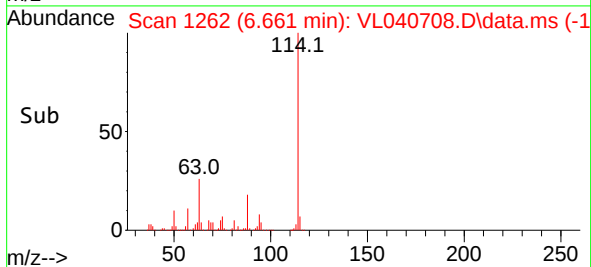
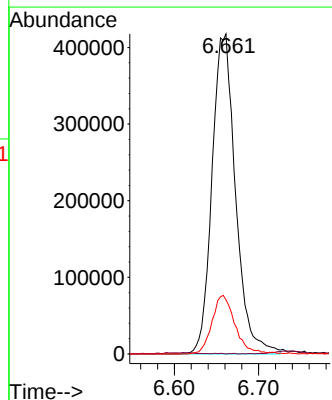
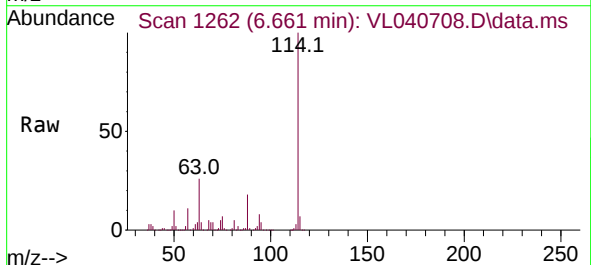
Instrument :
MSVOA_L
ClientSampleId :
29W-1DL

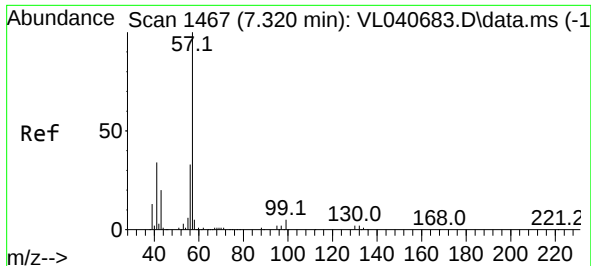
Tgt Ion: 78 Resp: 18477
Ion Ratio Lower Upper
78 100
77 21.6 17.9 26.9
50 16.6 17.3 25.9#



#39
1,2-Dichloropropane
Concen: 8.611 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.421 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

Tgt Ion: 63 Resp: 810247
Ion Ratio Lower Upper
63 100
41 0.0 61.6 92.4#
62 17.0 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.171 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. -0.010 min

Lab File: VL040708.D

Acq: 18 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

29W-1DL

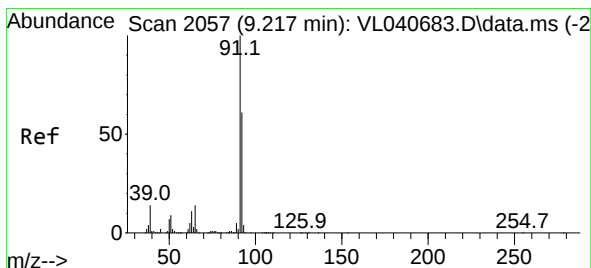
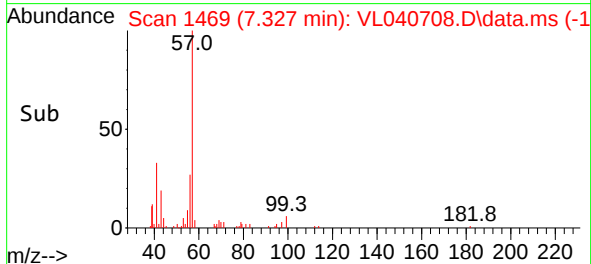
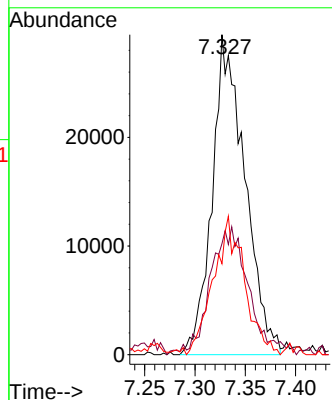
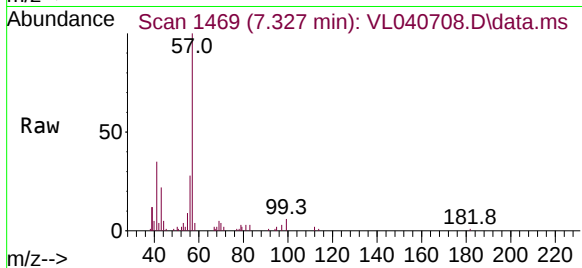
Tgt Ion: 57 Resp: 66512

Ion Ratio Lower Upper

57 100

41 47.5 28.5 42.7#

56 42.6 25.4 38.2#



#53

Toluene

Concen: 0.760 ppbv

RT: 9.227 min Scan# 2060

Delta R.T. -0.003 min

Lab File: VL040708.D

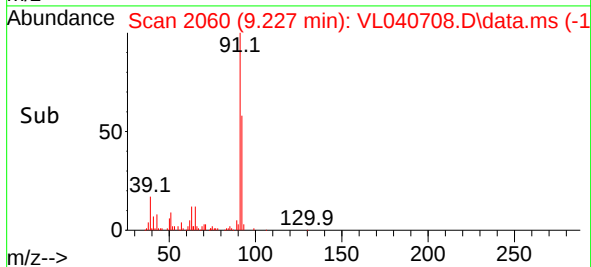
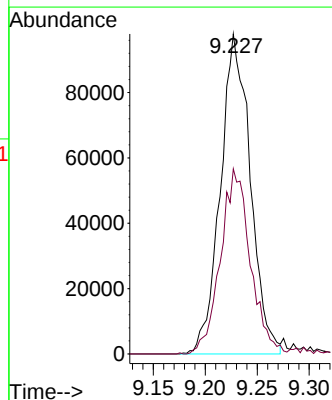
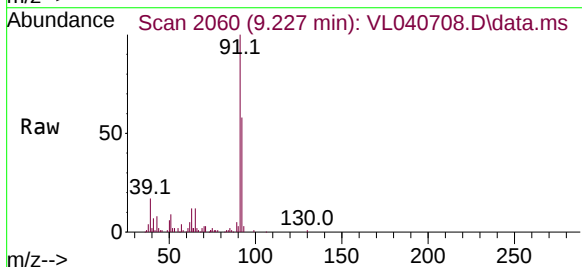
Acq: 18 Sep 2023 21:01

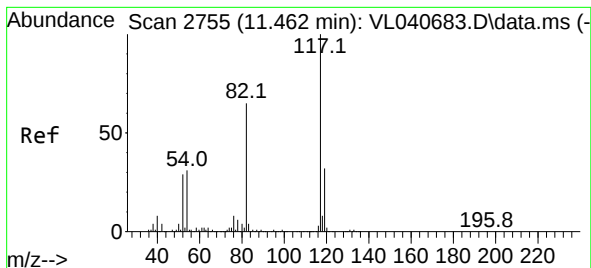
Tgt Ion: 91 Resp: 196081

Ion Ratio Lower Upper

91 100

92 58.8 48.5 72.7

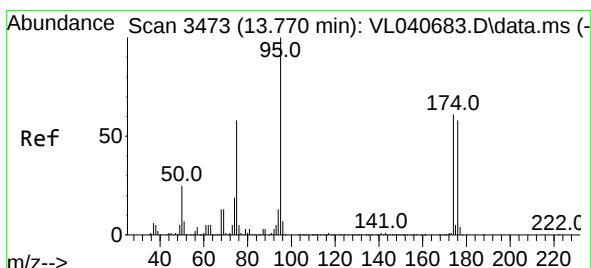
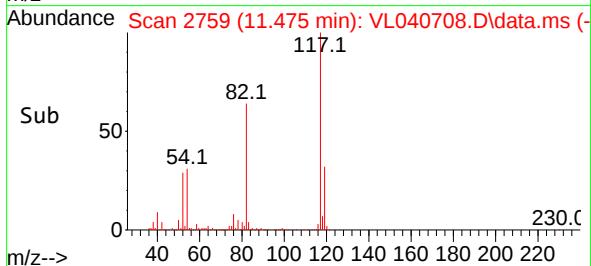
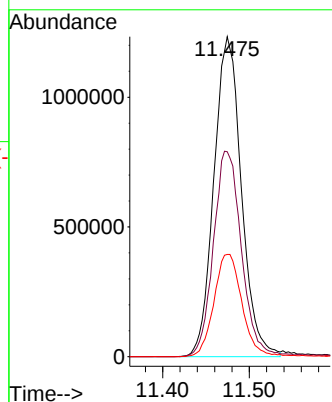
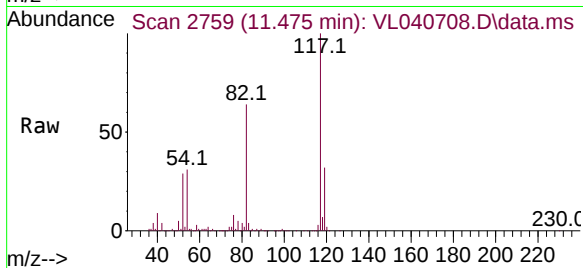




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

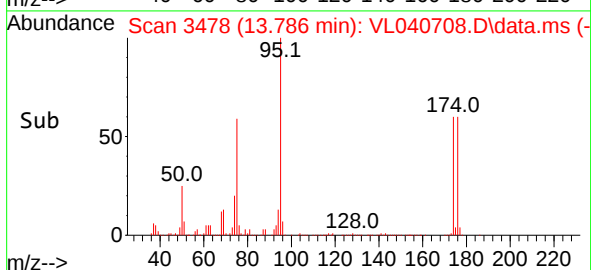
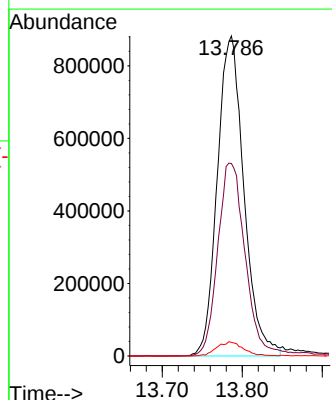
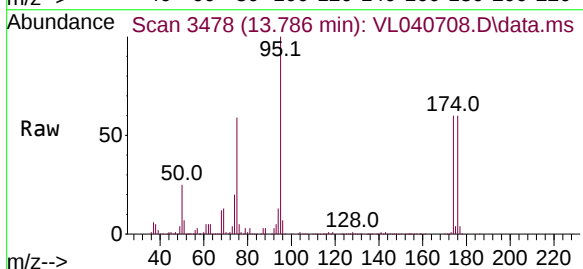
Instrument :
MSVOA_L
ClientSampleId :
29W-1DL

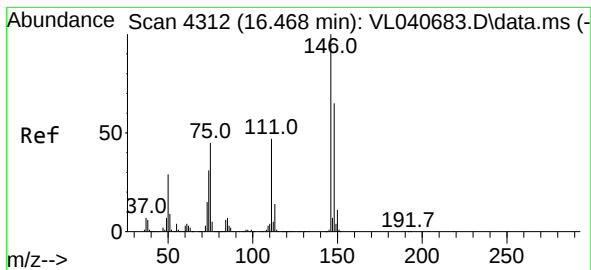
Tgt Ion:117 Resp: 2719223
Ion Ratio Lower Upper
117 100
82 65.8 51.4 77.0
119 33.1 24.7 37.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.712 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VL040708.D
Acq: 18 Sep 2023 21:01

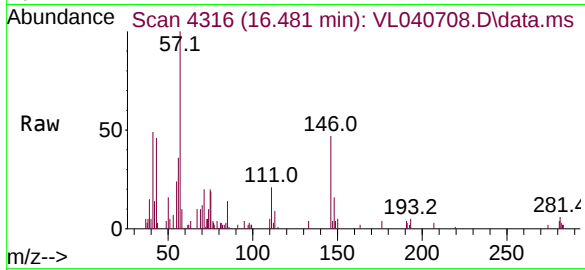
Tgt Ion: 95 Resp: 2040396
Ion Ratio Lower Upper
95 100
174 63.0 48.9 73.3
175 4.6 3.5 5.3





#76
 1,4-Dichlorobenzene
 Concen: 0.040 ppbv
 RT: 16.481 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL040708.D
 Acq: 18 Sep 2023 21:01

Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1DL



Tgt Ion:146 Resp: 7604
 Ion Ratio Lower Upper
 146 100
 111 104.5 23.8 71.2#
 148 132.7 32.6 97.7#

