

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040695.D
 Acq On : 18 Sep 2023 12:05
 Operator : SY/MD
 Sample : 04468-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Sep 19 05:17:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

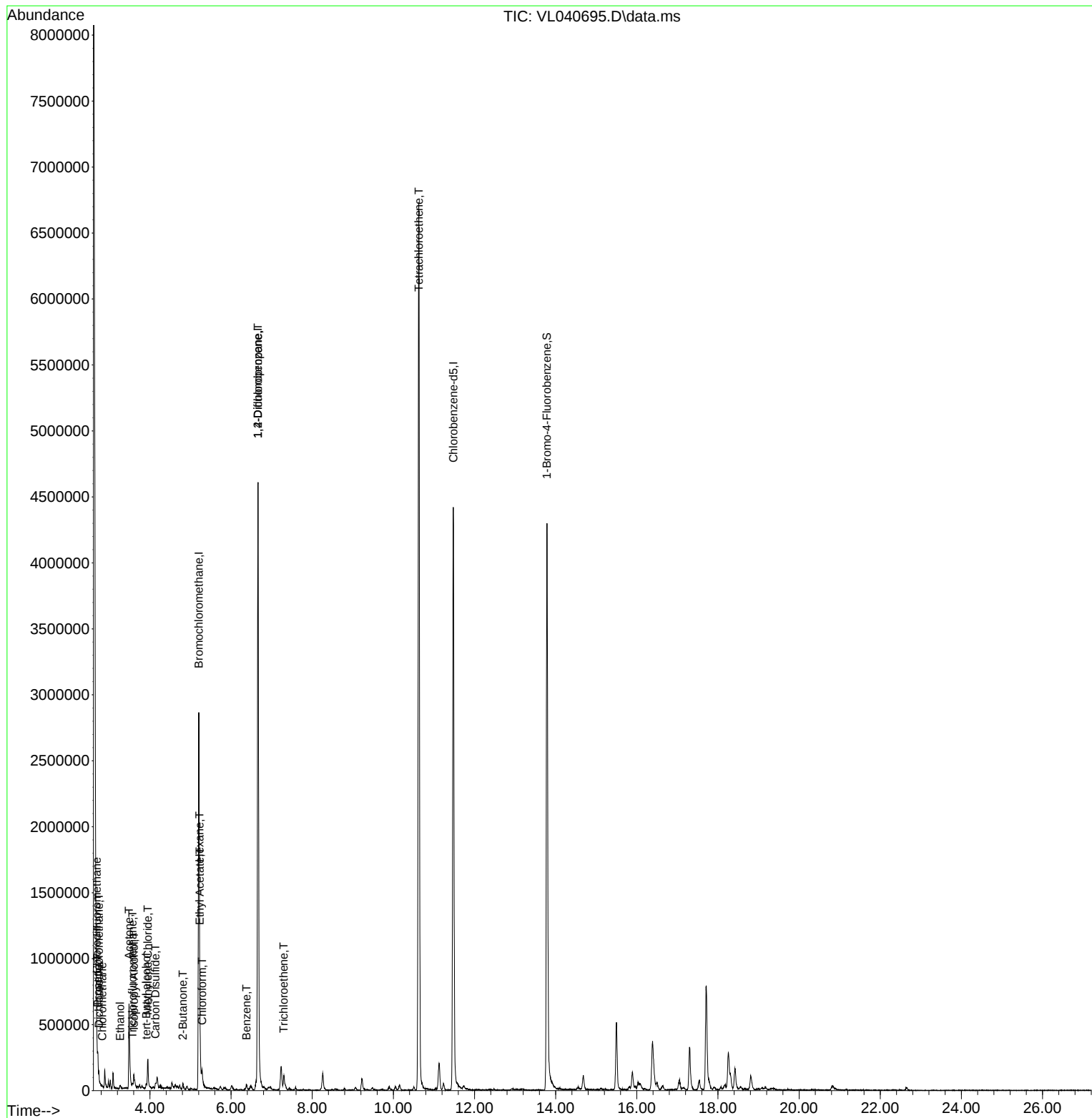
Internal Standards						
1) Bromochloromethane	5.205	49	1275471	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	3405784	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2822114	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2115257	9.701	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	31940	0.114	ppbv	91
3) Chlorodifluoromethane	2.687	51	29831	0.144	ppbv #	86
4) Chloromethane	2.825	50	6306	0.079	ppbv	89
9) Propene	2.709	41	12569	0.210	ppbv #	27
11) Trichlorofluoromethane	3.571	101	14167	0.057	ppbv	87
13) Ethanol	3.263	45	16414	0.926	ppbv #	54
15) Acetone	3.484	43	710477	4.223	ppbv	95
17) tert-Butyl alcohol	3.912	59	23457	0.136	ppbv	94
19) Isopropyl Alcohol	3.603	45	101973	1.006	ppbv #	93
20) Methylene Chloride	3.947	84	73431	0.811	ppbv	95
25) Ethyl Acetate	5.227	43	78838	0.291	ppbv #	78
26) Hexane	5.221	57	111295	0.867	ppbv #	40
27) Carbon Disulfide	4.137	76	48917	0.273	ppbv #	68
29) Chloroform	5.285	83	55226	0.249	ppbv	97
34) 2-Butanone	4.812	43	47822	0.279	ppbv #	88
36) Benzene	6.381	78	15638	0.062	ppbv #	90
38) Trichloroethene	7.298	130	27586	0.287	ppbv #	81
39) 1,2-Dichloropropane	6.664	63	829956	8.550	ppbv #	24
52) Tetrachloroethene	10.629	164	1588813	19.313	ppbv	96

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

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QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

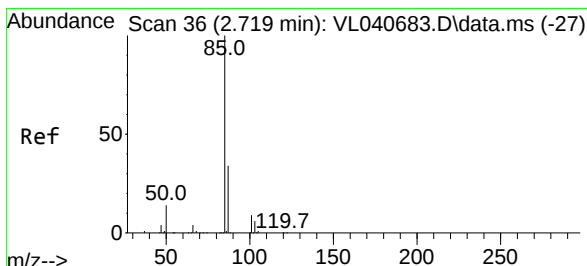
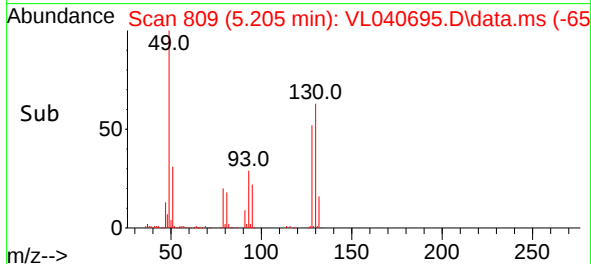
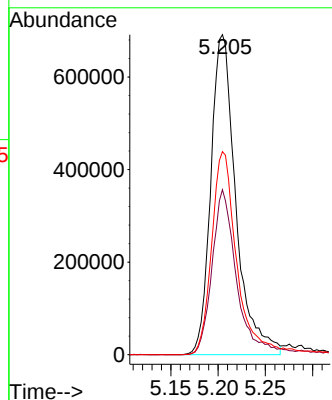
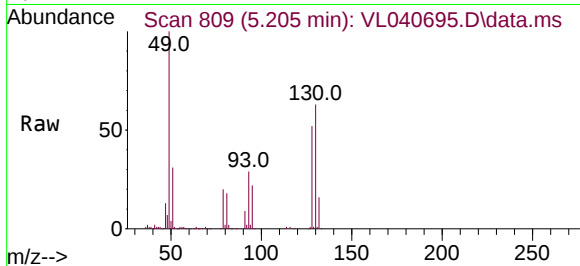




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. 0.007 min
 Lab File: VL040695.D
 Acq: 18 Sep 2023 12:05

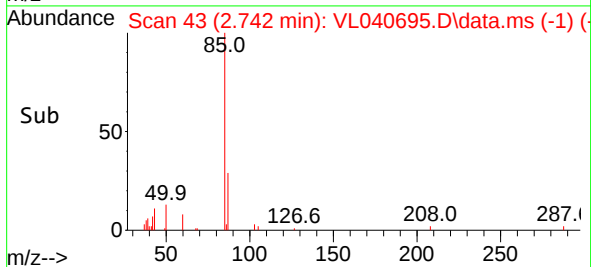
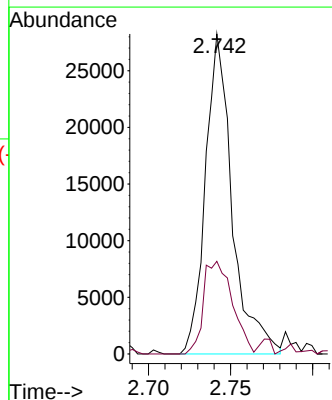
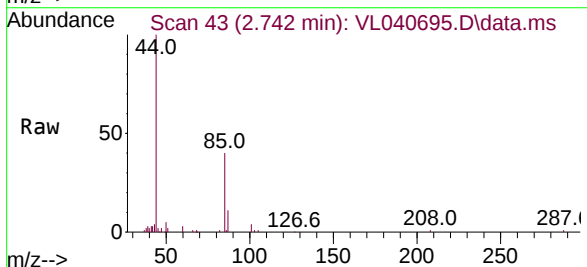
Instrument :
 MSVOA_L
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 SV1

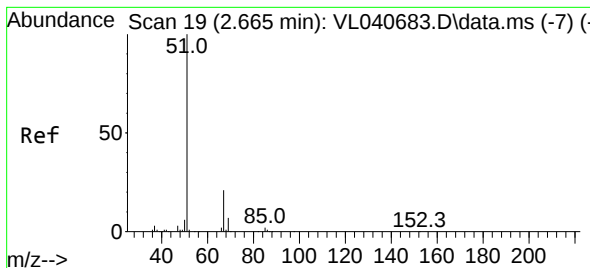
Tgt Ion: 49 Resp: 1275471
 Ion Ratio Lower Upper
 49 100
 128 52.2 25.4 76.0
 130 65.4 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.114 ppbv
 RT: 2.742 min Scan# 43
 Delta R.T. 0.010 min
 Lab File: VL040695.D
 Acq: 18 Sep 2023 12:05

Tgt Ion: 85 Resp: 31940
 Ion Ratio Lower Upper
 85 100
 87 28.9 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.144 ppbv

RT: 2.687 min Scan# 20

Delta R.T. 0.010 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

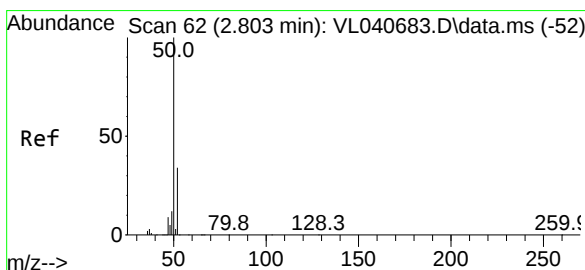
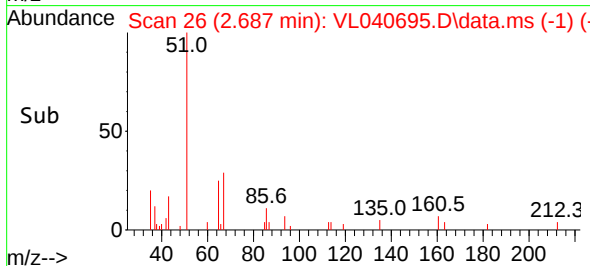
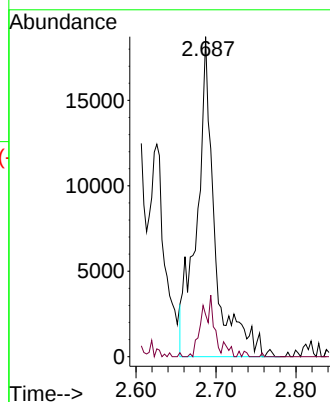
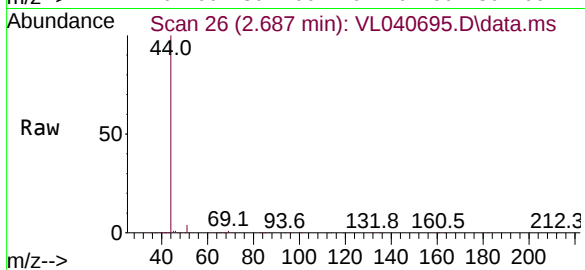
SV1

Tgt Ion: 51 Resp: 29831

Ion Ratio Lower Upper

51 100

67 14.4 16.7 25.1#



#4

Chloromethane

Concen: 0.079 ppbv

RT: 2.825 min Scan# 69

Delta R.T. 0.010 min

Lab File: VL040695.D

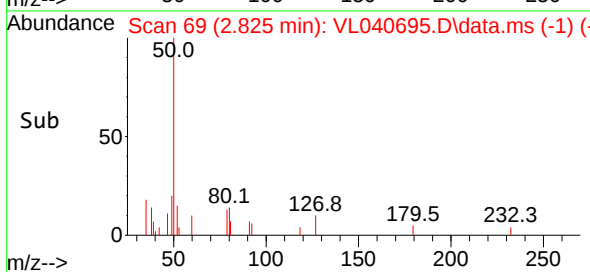
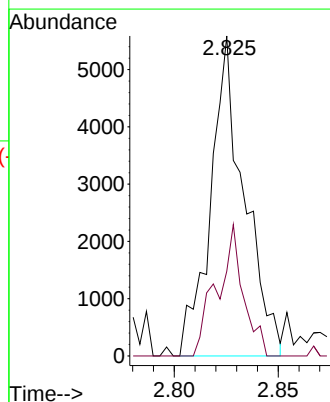
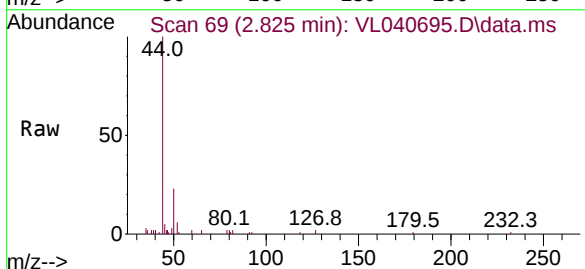
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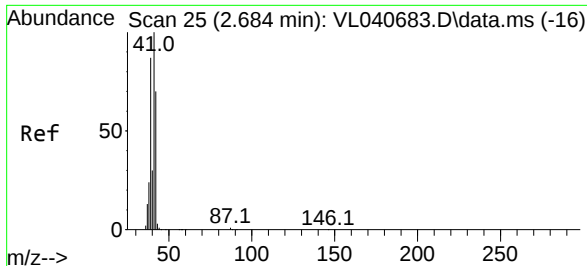
Tgt Ion: 50 Resp: 6306

Ion Ratio Lower Upper

50 100

52 27.5 27.1 40.7





#9

Propene

Concen: 0.210 ppbv

RT: 2.709 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

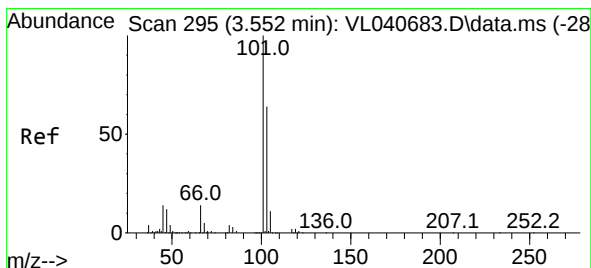
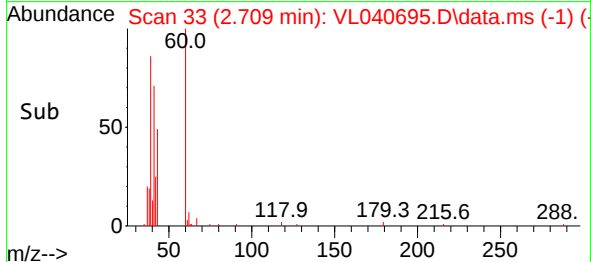
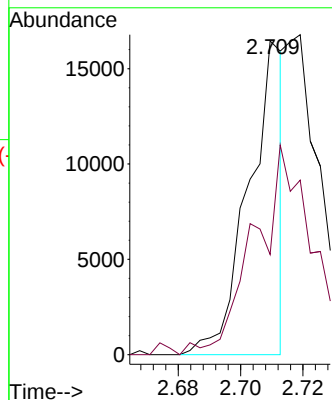
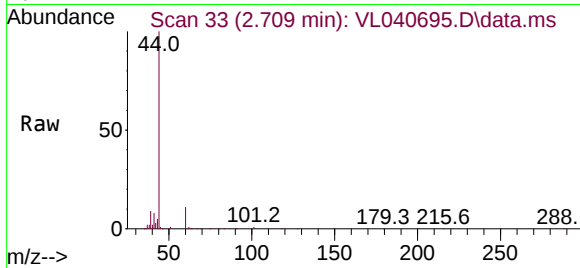
SV1

Tgt Ion: 41 Resp: 12569

Ion Ratio Lower Upper

41 100

42 131.6 56.7 85.1#



#11

Trichlorofluoromethane

Concen: 0.057 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.003 min

Lab File: VL040695.D

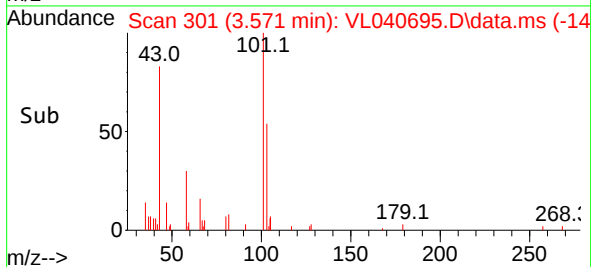
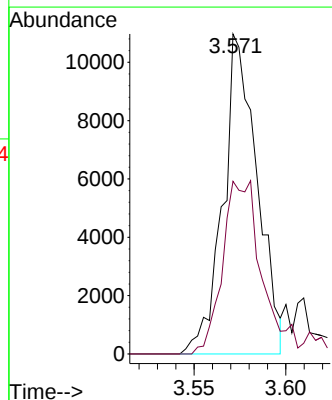
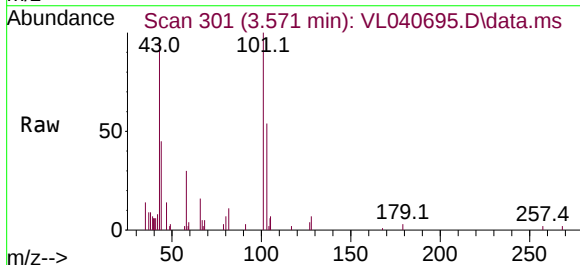
Acq: 18 Sep 2023 12:05

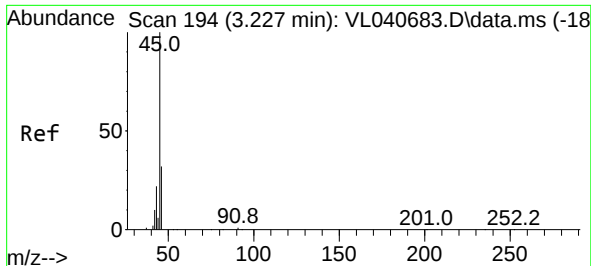
Tgt Ion: 101 Resp: 14167

Ion Ratio Lower Upper

101 100

103 53.9 51.3 76.9

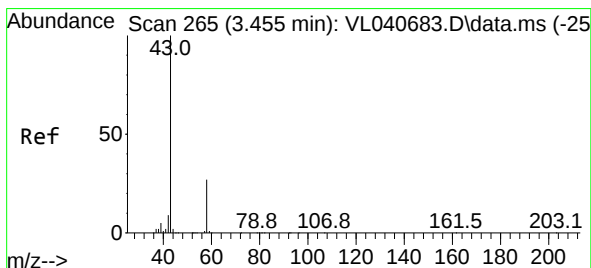
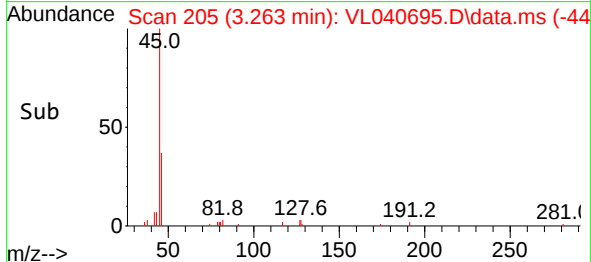
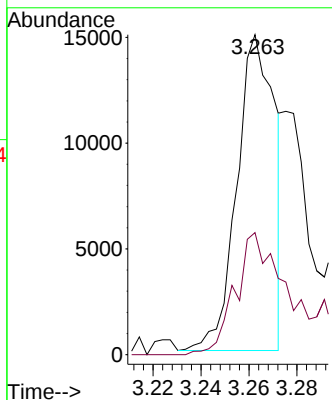
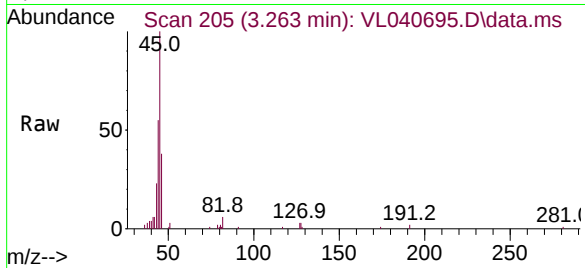




#13
 Ethanol
 Concen: 0.926 ppbv
 RT: 3.263 min Scan# 205
 Delta R.T. 0.019 min
 Lab File: VL040695.D
 Acq: 18 Sep 2023 12:05

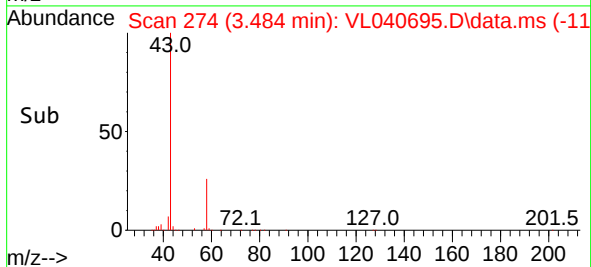
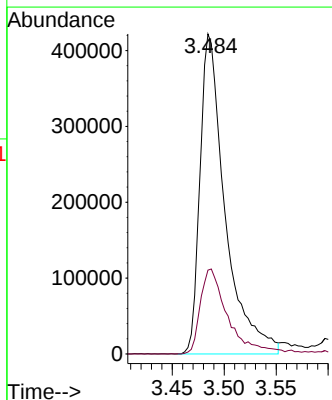
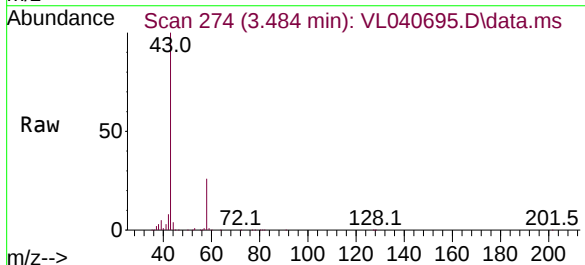
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

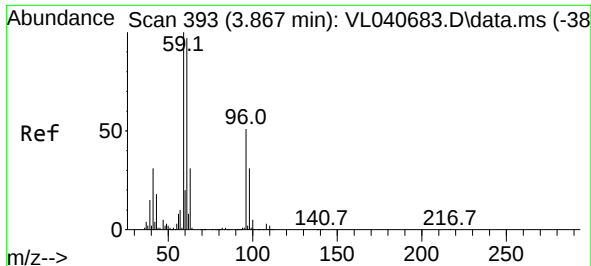
Tgt Ion: 45 Resp: 16414
 Ion Ratio Lower Upper
 45 100
 46 65.9 15.2 61.0#



#15
 Acetone
 Concen: 4.223 ppbv
 RT: 3.484 min Scan# 274
 Delta R.T. 0.013 min
 Lab File: VL040695.D
 Acq: 18 Sep 2023 12:05

Tgt Ion: 43 Resp: 710477
 Ion Ratio Lower Upper
 43 100
 58 31.2 22.6 34.0





#17

tert-Butyl alcohol

Concen: 0.136 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.029 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

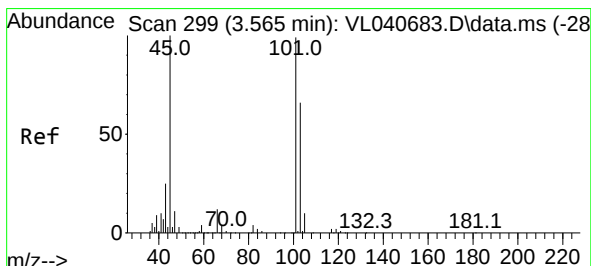
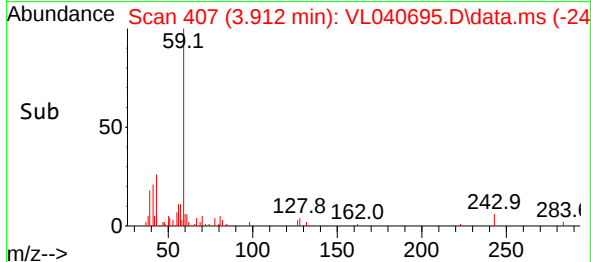
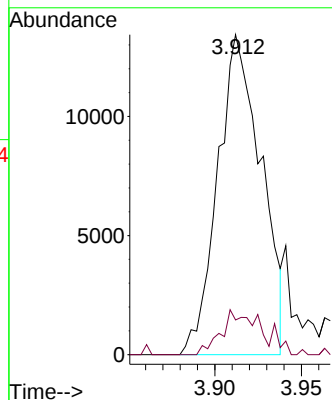
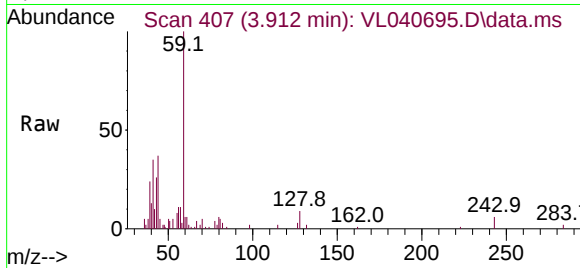
SV1

Tgt Ion: 59 Resp: 23457

Ion Ratio Lower Upper

59 100

57 13.1 8.7 13.1



#19

Isopropyl Alcohol

Concen: 1.006 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.026 min

Lab File: VL040695.D

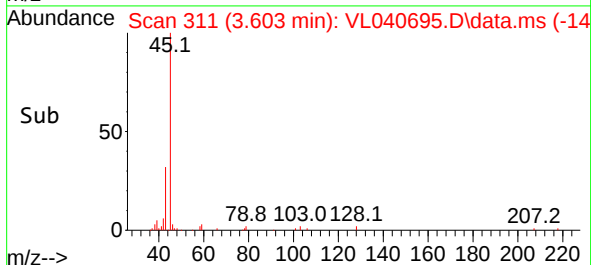
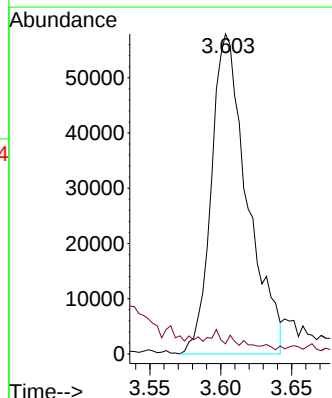
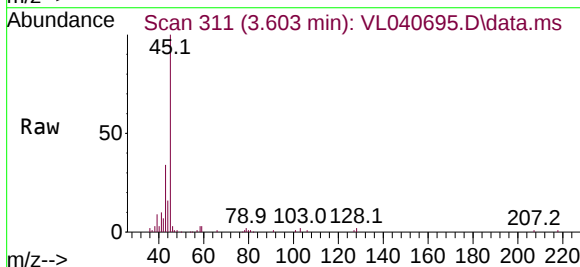
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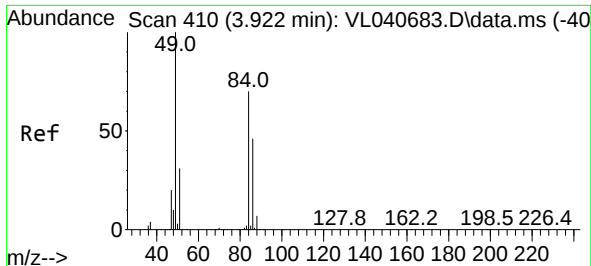
Tgt Ion: 45 Resp: 101973

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



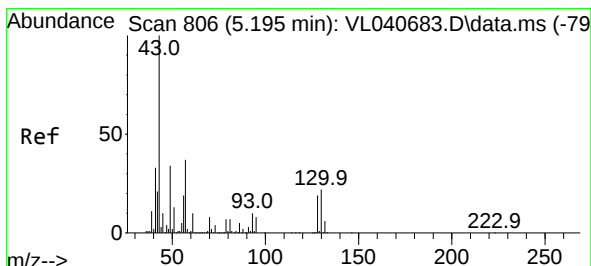
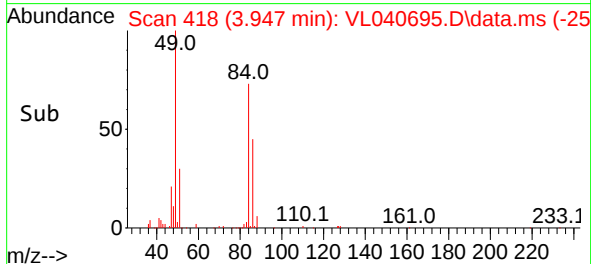
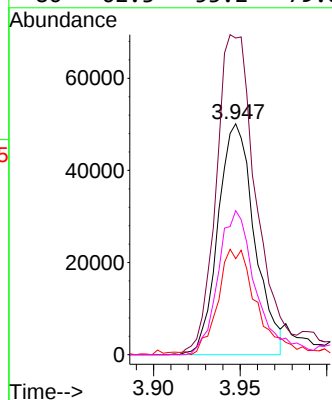
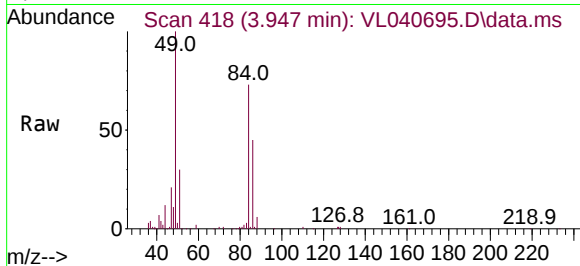


#20
Methylene Chloride
Concen: 0.811 ppbv
RT: 3.947 min Scan# 410
Delta R.T. 0.010 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 73431

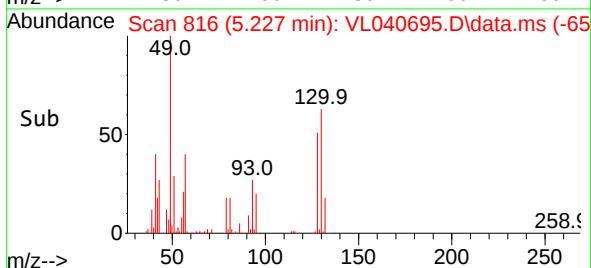
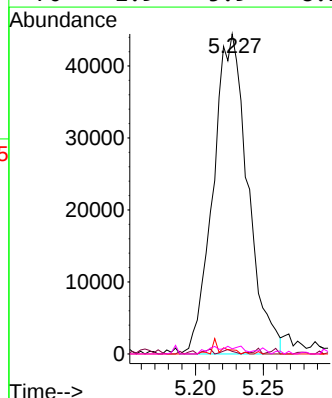
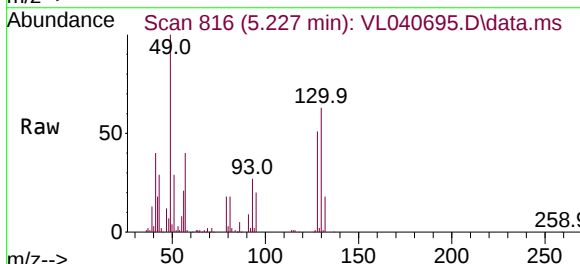
Ion	Ratio	Lower	Upper
84	100		
49	137.1	114.4	171.6
51	40.6	35.5	53.3
86	62.3	53.2	79.8

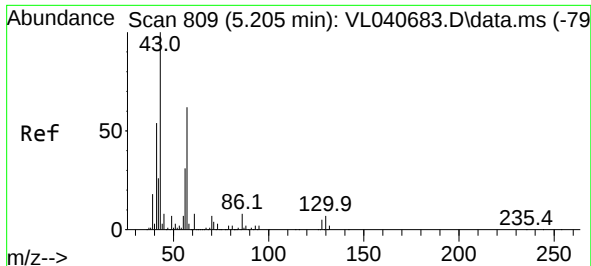


#25
Ethyl Acetate
Concen: 0.291 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.016 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

Tgt Ion: 43 Resp: 78838

Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.2	12.4#
61	0.0	8.2	12.4#
70	2.9	5.9	8.9#

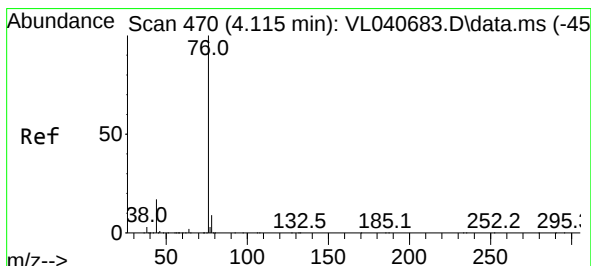
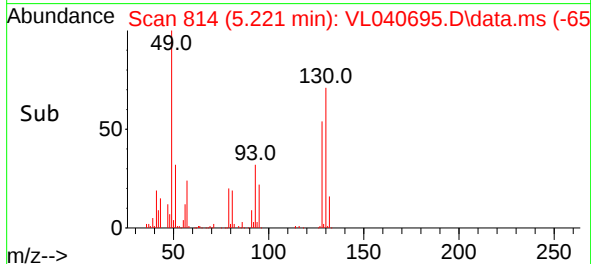
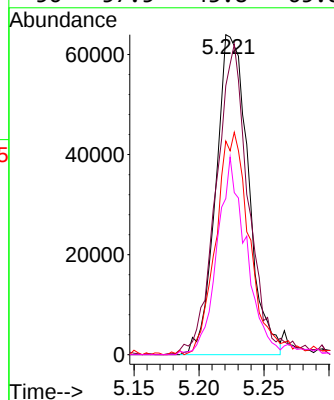
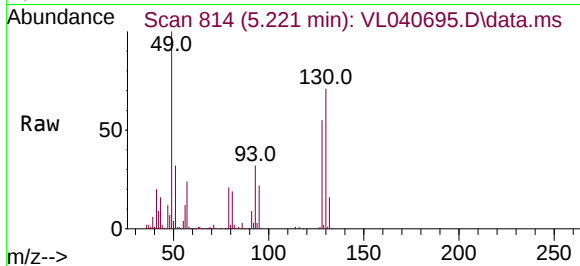




#26
Hexane
Concen: 0.867 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

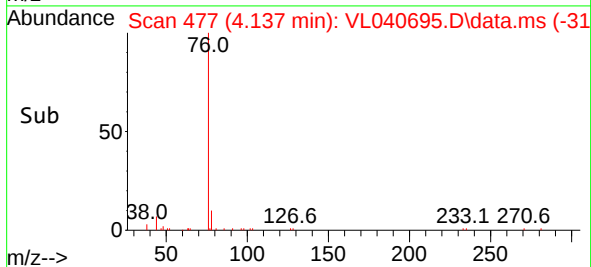
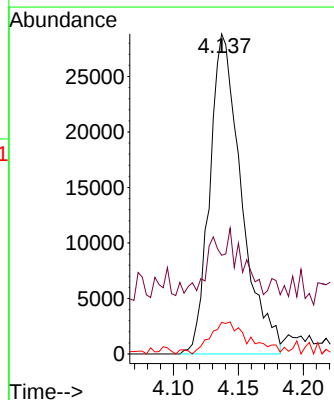
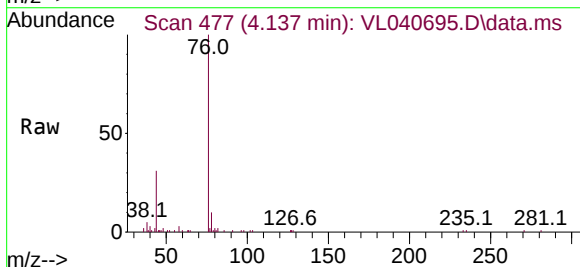
Instrument :
MSVOA_L
ClientSampleId :
SV1

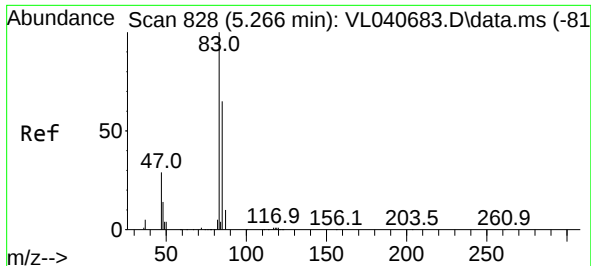
Tgt Ion: 57 Resp: 111295
Ion Ratio Lower Upper
57 100
41 99.4 75.2 112.8
43 73.6 185.6 278.4#
56 57.5 43.8 65.8



#27
Carbon Disulfide
Concen: 0.273 ppbv
RT: 4.137 min Scan# 477
Delta R.T. 0.006 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

Tgt Ion: 76 Resp: 48917
Ion Ratio Lower Upper
76 100
44 36.9 14.5 21.7#
78 13.6 7.7 11.5#





#29

Chloroform

Concen: 0.249 ppbv

RT: 5.285 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

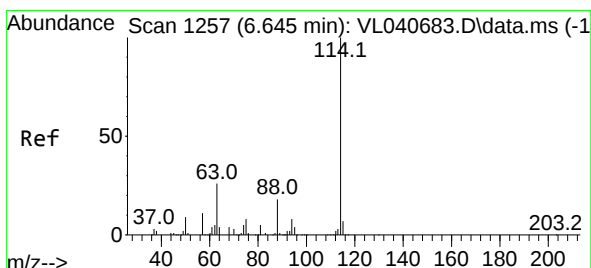
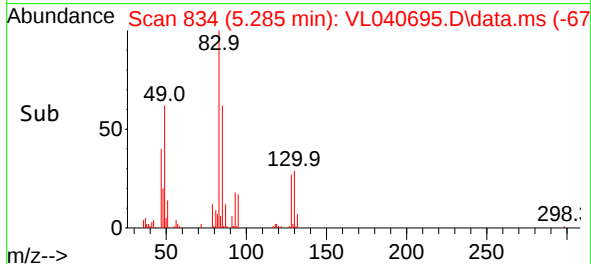
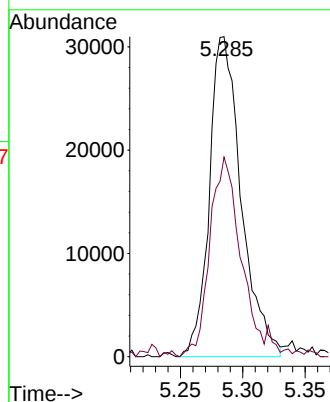
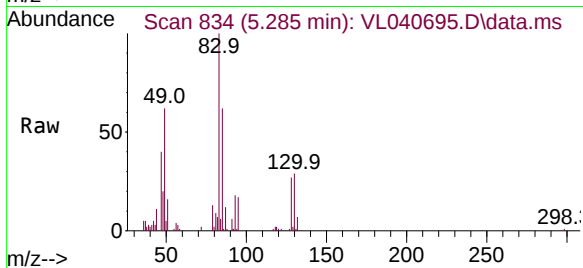
SV1

Tgt Ion: 83 Resp: 55226

Ion Ratio Lower Upper

83 100

85 62.3 51.8 77.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. 0.003 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

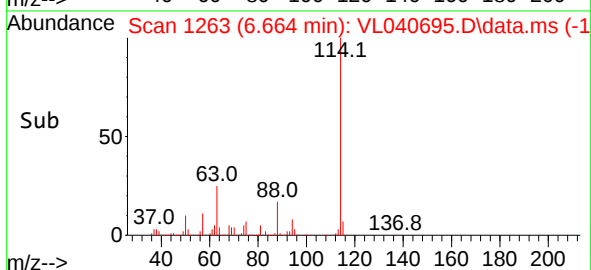
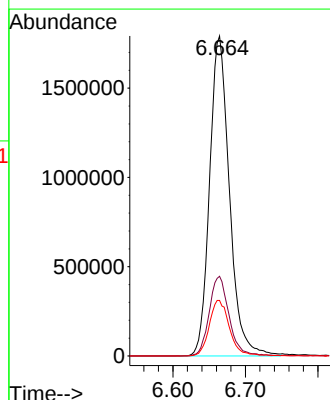
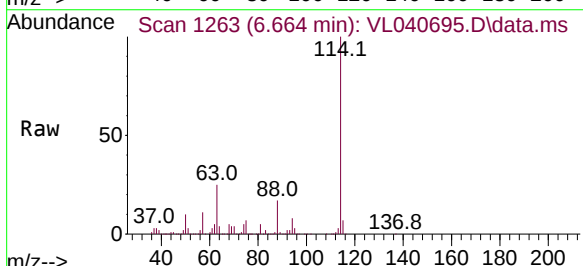
Tgt Ion: 114 Resp: 3405784

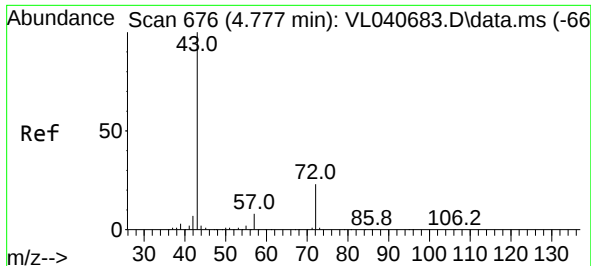
Ion Ratio Lower Upper

114 100

63 25.2 21.1 31.7

88 17.8 14.5 21.7

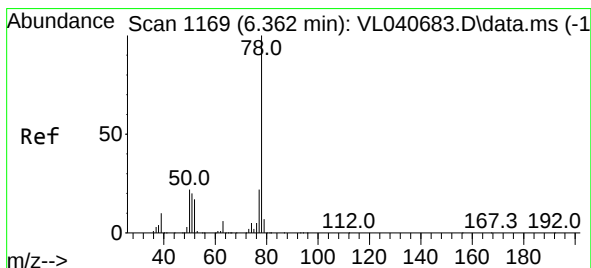
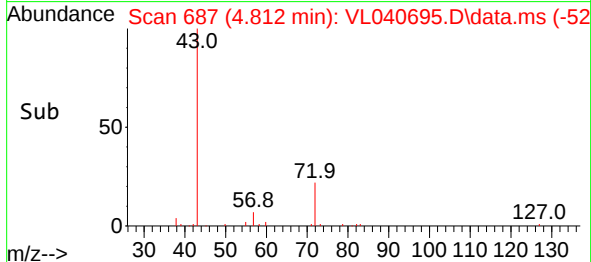
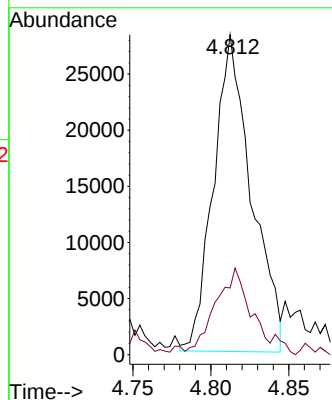
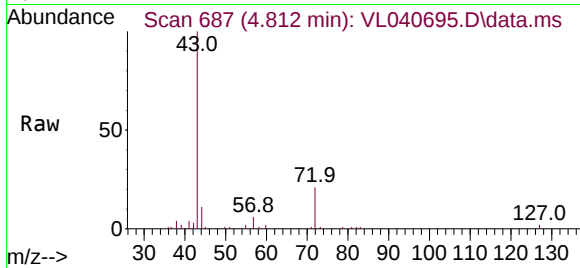




#34
2-Butanone
Concen: 0.279 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

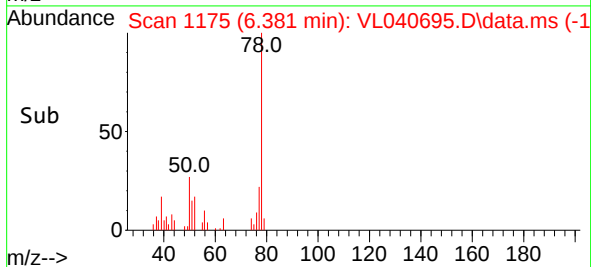
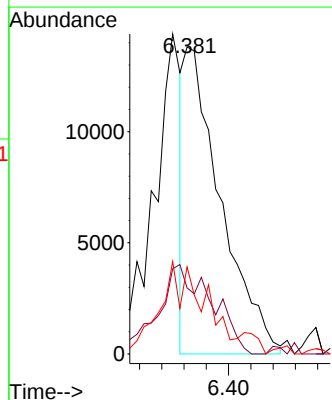
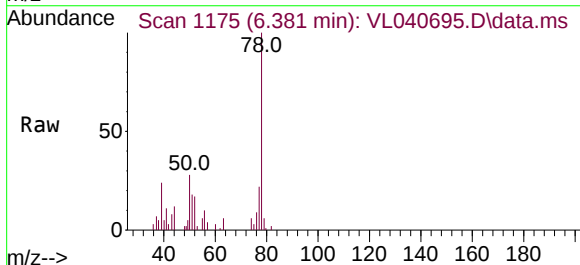
Instrument :
MSVOA_L
ClientSampleId :
SV1

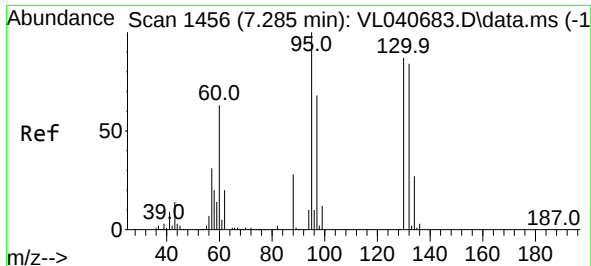
Tgt Ion: 43 Resp: 47822
Ion Ratio Lower Upper
43 100
72 29.1 18.6 27.8#



#36
Benzene
Concen: 0.062 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. -0.000 min
Lab File: VL040695.D
Acq: 18 Sep 2023 12:05

Tgt Ion: 78 Resp: 15638
Ion Ratio Lower Upper
78 100
77 18.6 17.9 26.9
50 27.2 17.3 25.9#





#38

Trichloroethene

Concen: 0.287 ppbv

RT: 7.298 min Scan# 1456

Delta R.T. -0.003 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:130 Resp: 27586

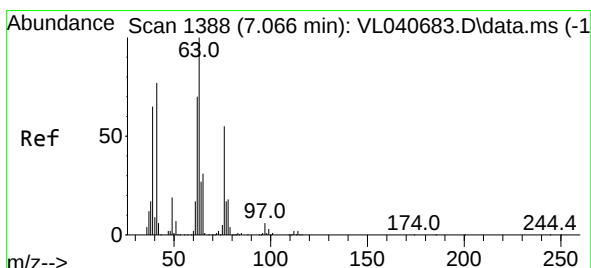
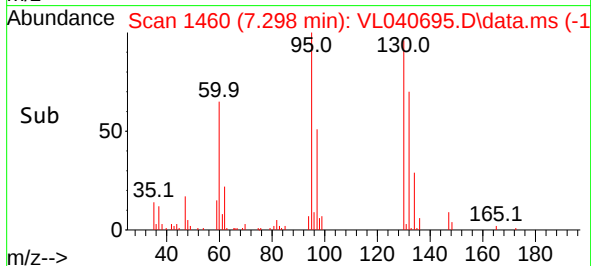
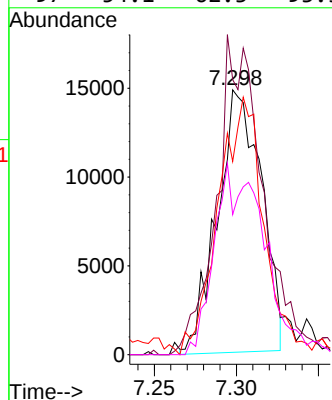
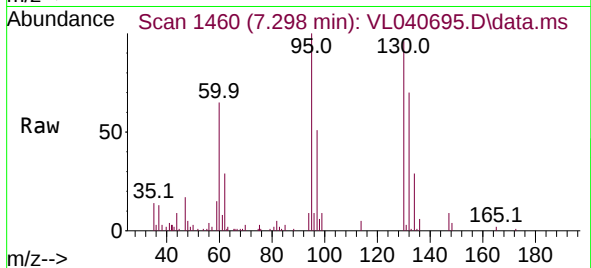
Ion Ratio Lower Upper

130 100

95 102.5 91.9 137.9

132 74.5 77.3 115.9#

97 54.1 62.3 93.5#



#39

1,2-Dichloropropane

Concen: 8.550 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. -0.418 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

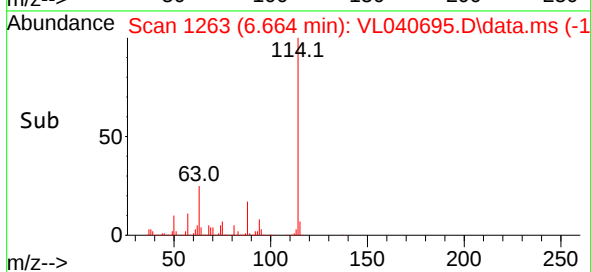
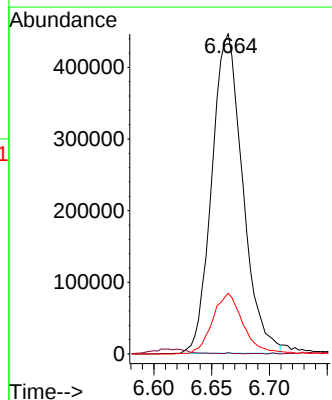
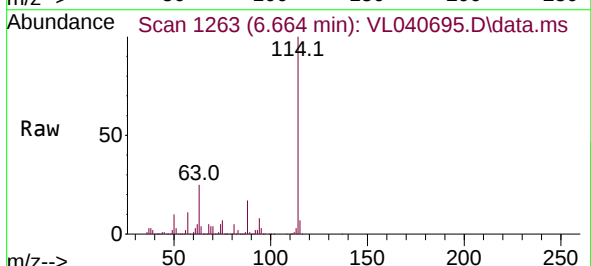
Tgt Ion: 63 Resp: 829956

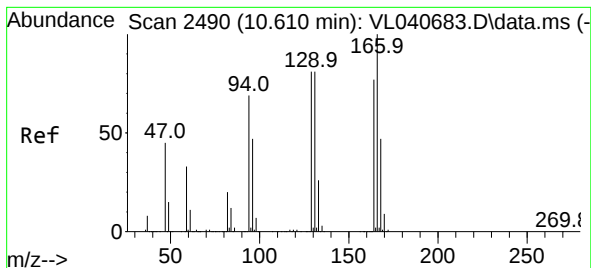
Ion Ratio Lower Upper

63 100

41 0.4 61.6 92.4#

62 18.9 55.8 83.8#





#52

Tetrachloroethene

Concen: 19.313 ppbv

RT: 10.629 min Scan# 2490

Delta R.T. 0.003 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp: 1588813

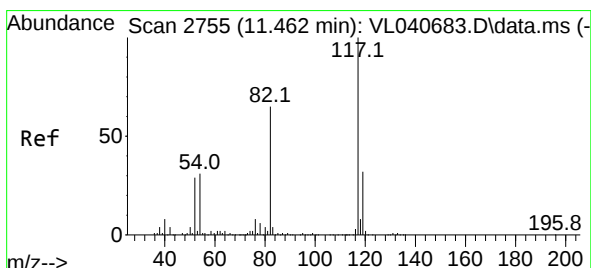
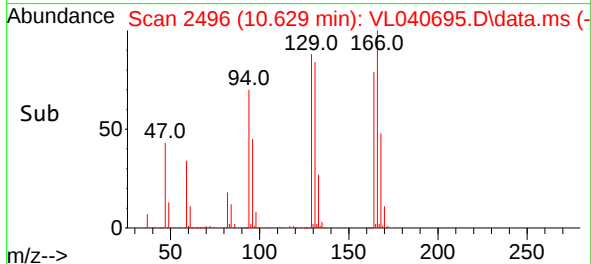
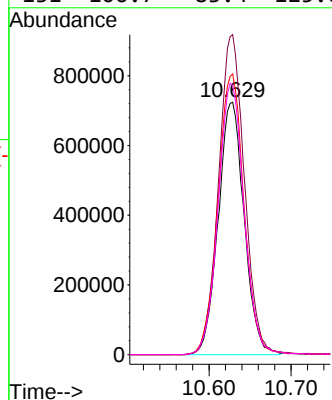
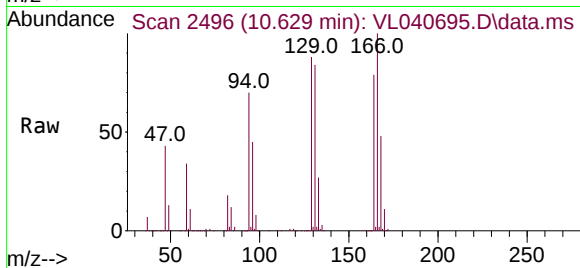
Ion Ratio Lower Upper

164 100

166 126.7 103.4 155.2

129 111.2 83.5 125.3

131 106.7 83.4 125.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. -0.000 min

Lab File: VL040695.D

Acq: 18 Sep 2023 12:05

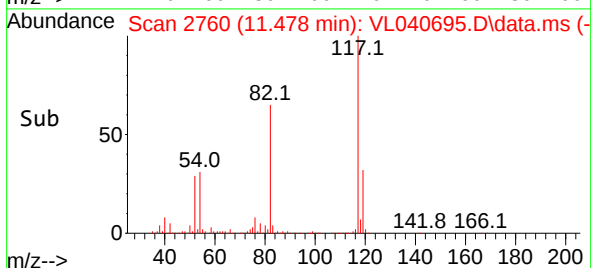
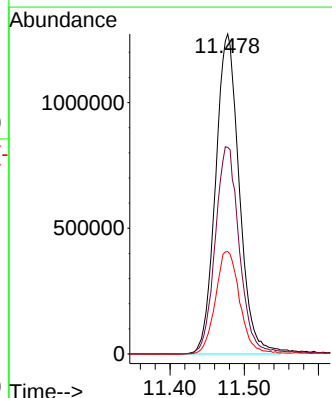
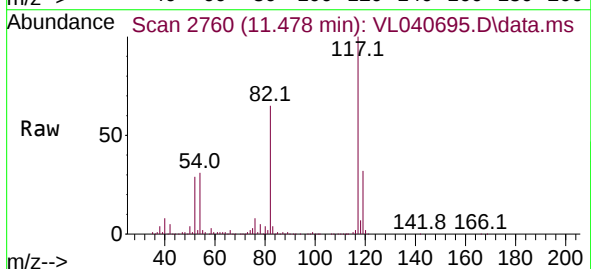
Tgt Ion:117 Resp: 2822114

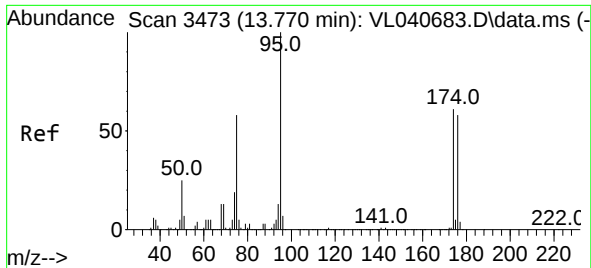
Ion Ratio Lower Upper

117 100

82 67.0 51.4 77.0

119 33.0 24.7 37.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.701 ppbv
 RT: 13.786 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VL040695.D
 Acq: 18 Sep 2023 12:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 95 Resp: 2115257
 Ion Ratio Lower Upper
 95 100
 174 62.6 48.9 73.3
 175 4.4 3.5 5.3

