

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040616.D
 Acq On : 9 Aug 2023 22:02
 Operator : SY/MD
 Sample : 03950-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

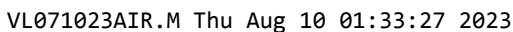
Quant Time: Aug 10 01:33:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

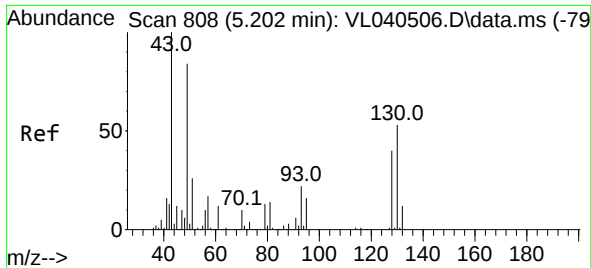
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.189	49	891364	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.652	114	2238759	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.471	117	1971475	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1636834	10.491	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 104.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	24147	0.135	ppbv	99
3) Chlorodifluoromethane	2.639	51	145826	1.032	ppbv #	63
9) Propene	2.687	41	138080	2.855	ppbv	92
11) Trichlorofluoromethane	3.552	101	11044	0.077	ppbv	83
13) Ethanol	3.240	45	6259	0.595	ppbv #	37
15) Acetone	3.462	43	333352	3.249	ppbv	96
16) 1,3-Butadiene	2.999	39	13359	0.258	ppbv #	8
20) Methylene Chloride	3.928	84	505620	11.585	ppbv	99
21) Allyl Chloride	3.986	41	2114	0.036	ppbv #	1
23) Vinyl Acetate	4.620	43	4000	0.041	ppbv #	93
25) Ethyl Acetate	5.211	43	139724	0.715	ppbv #	76
26) Hexane	5.211	57	198648	2.189	ppbv #	37
27) Carbon Disulfide	4.124	76	7425	0.070	ppbv #	65
29) Chloroform	5.269	83	38105	0.253	ppbv	91
32) 1,1,1-Trichloroethane	5.999	97	236116	1.603	ppbv	96
34) 2-Butanone	4.803	43	22617	0.204	ppbv	97
36) Benzene	6.372	78	31910	0.177	ppbv	99
38) Trichloroethene	7.295	130	4908	0.072	ppbv #	42
39) 1,2-Dichloropropane	6.655	63	597008	8.609	ppbv #	26
52) Tetrachloroethene	10.606	164	2007	0.034	ppbv #	71
53) Toluene	9.227	91	22922	0.117	ppbv #	73

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

Quant Time: Aug 10 01:33:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

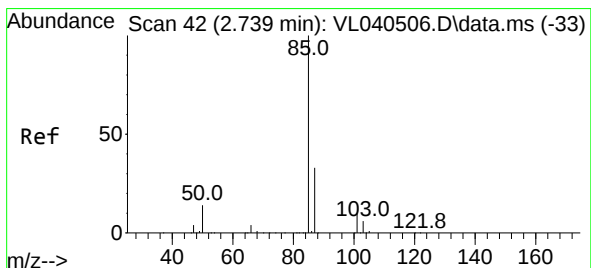
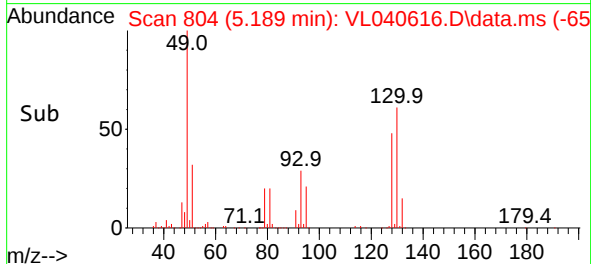
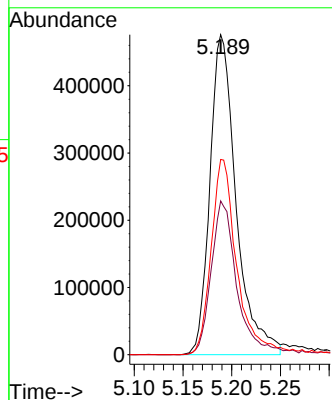
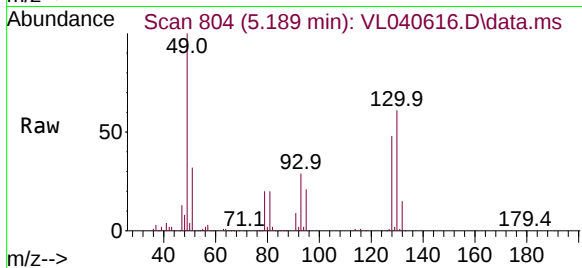




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

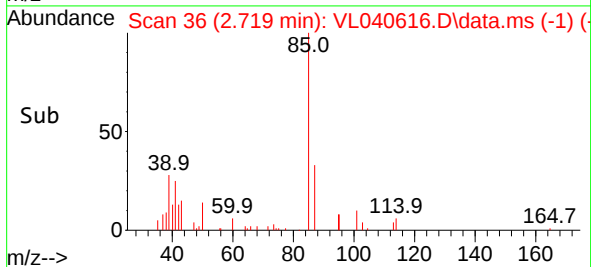
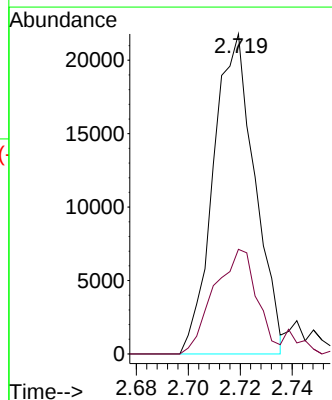
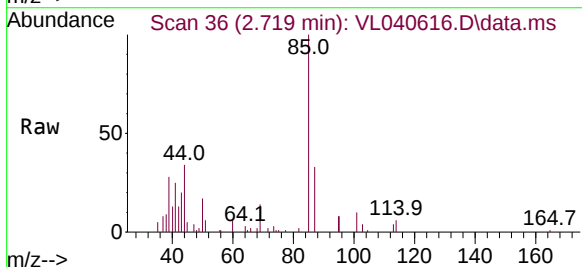
Instrument :
MSVOA_L
ClientSampleId :
SV1

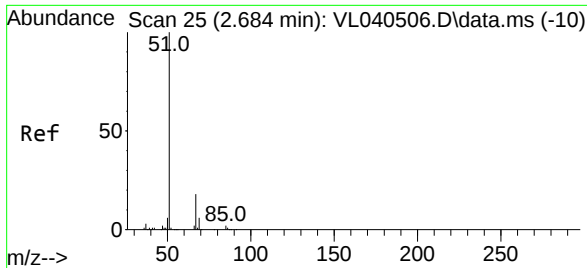
Tgt Ion: 49 Resp: 891364
Ion Ratio Lower Upper
49 100
128 48.8 25.1 75.4
130 61.8 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.019 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

Tgt Ion: 85 Resp: 24147
Ion Ratio Lower Upper
85 100
87 32.7 26.8 40.2

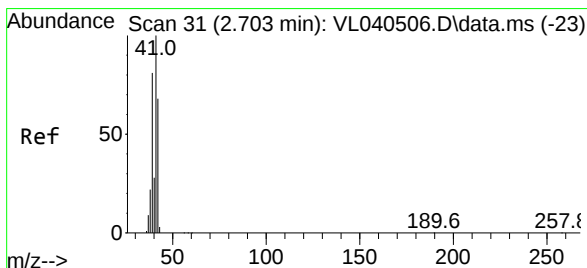
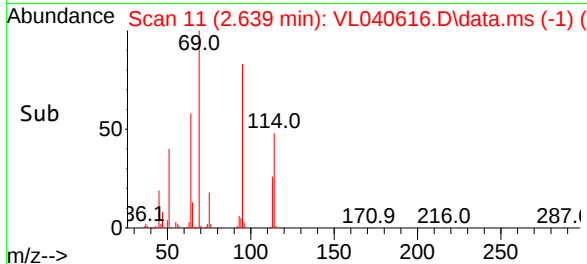
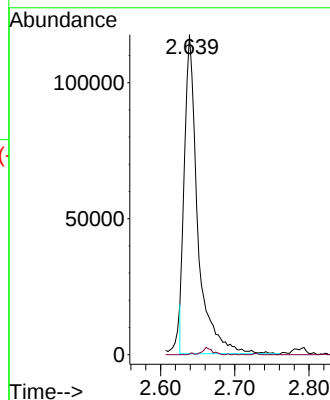
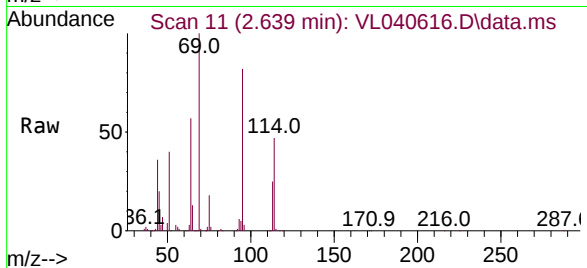




#3
Chlorodifluoromethane
Concen: 1.032 ppbv
RT: 2.639 min Scan# 11
Delta R.T. -0.045 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

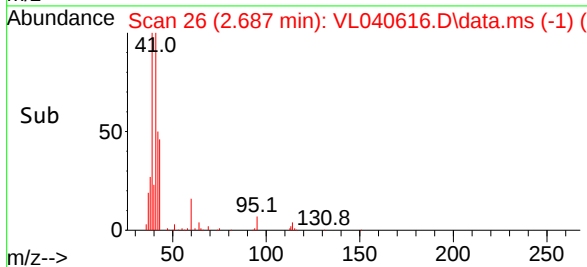
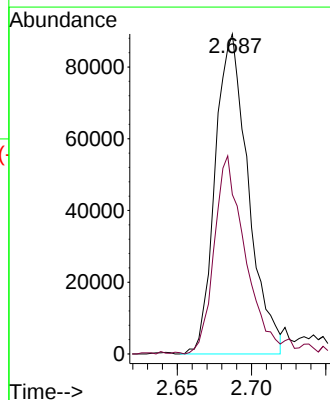
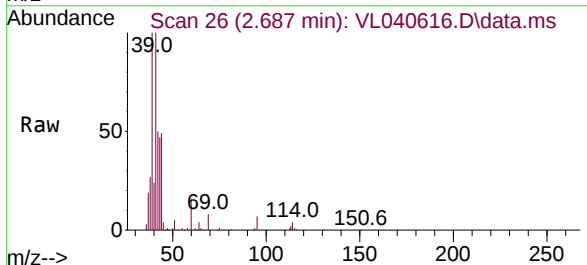
Instrument :
MSVOA_L
ClientSampleId :
SV1

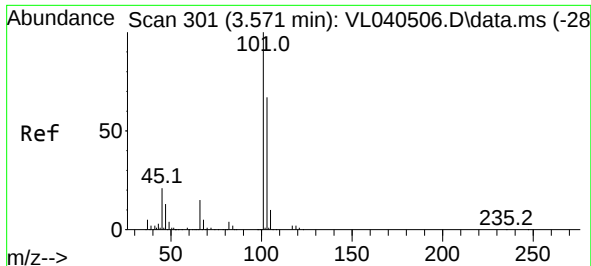
Tgt Ion: 51 Resp: 145826
Ion Ratio Lower Upper
51 100
67 1.8 14.6 21.8#



#9
Propene
Concen: 2.855 ppbv
RT: 2.687 min Scan# 26
Delta R.T. -0.016 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

Tgt Ion: 41 Resp: 138080
Ion Ratio Lower Upper
41 100
42 62.5 55.0 82.6

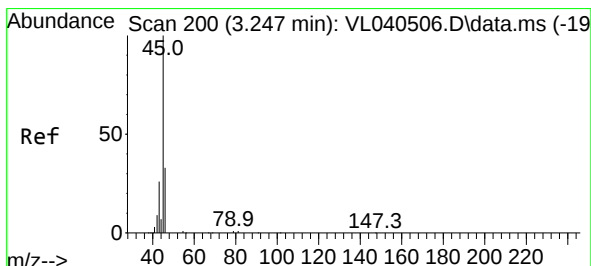
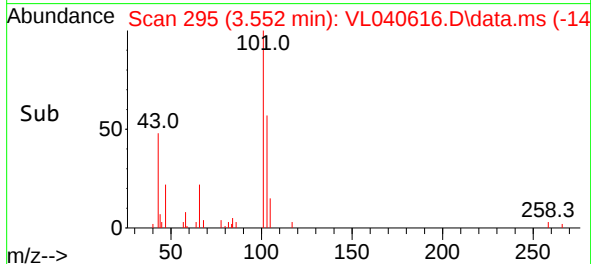
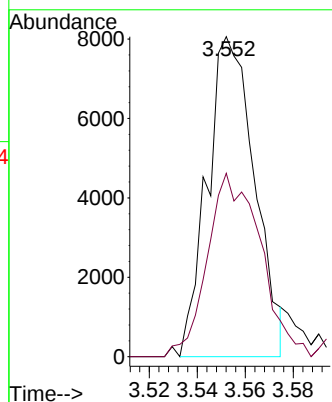
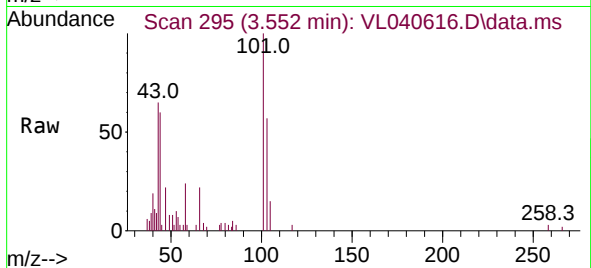




#11
 Trichlorofluoromethane
 Concen: 0.077 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. -0.019 min
 Lab File: VL040616.D
 Acq: 9 Aug 2023 22:02

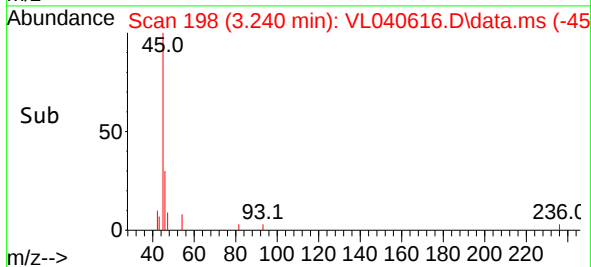
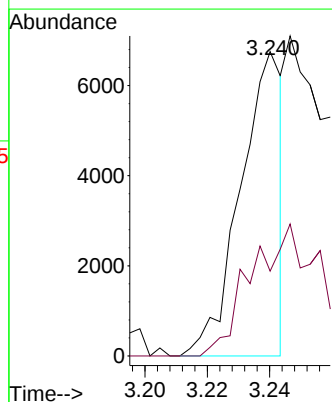
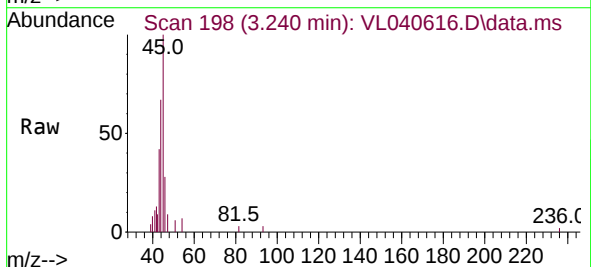
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

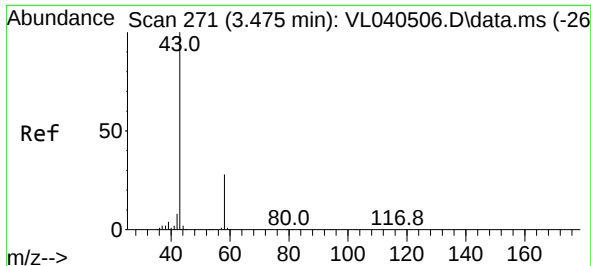
Tgt Ion:101 Resp: 11044
 Ion Ratio Lower Upper
 101 100
 103 53.4 53.4 80.0



#13
 Ethanol
 Concen: 0.595 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. -0.006 min
 Lab File: VL040616.D
 Acq: 9 Aug 2023 22:02

Tgt Ion: 45 Resp: 6259
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.1#





#15

Acetone

Concen: 3.249 ppbv

RT: 3.462 min Scan# 2

Delta R.T. -0.013 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

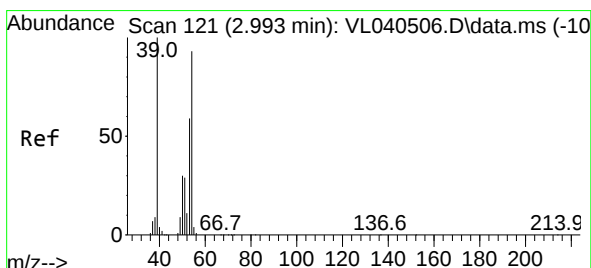
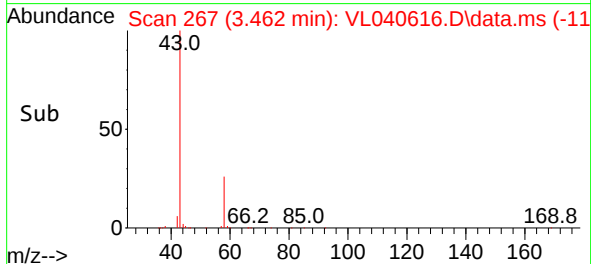
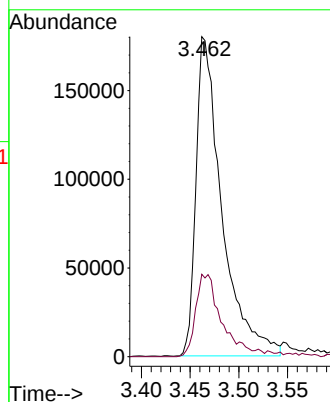
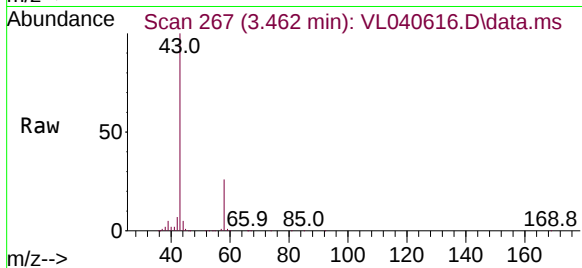
SV1

Tgt Ion: 43 Resp: 333352

Ion Ratio Lower Upper

43 100

58 26.7 22.9 34.3



#16

1,3-Butadiene

Concen: 0.258 ppbv

RT: 2.999 min Scan# 123

Delta R.T. 0.006 min

Lab File: VL040616.D

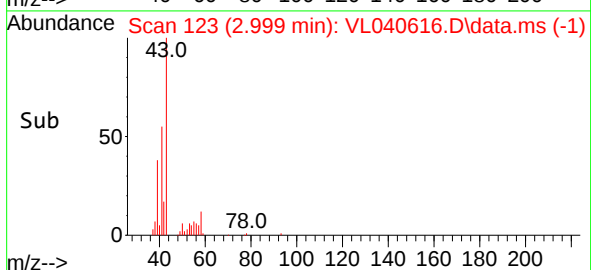
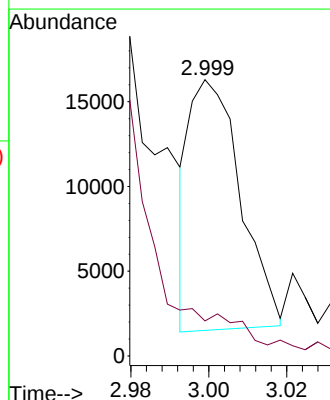
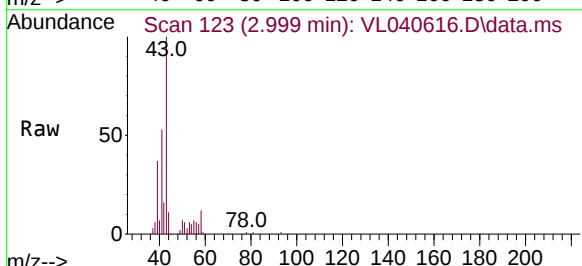
Acq: 9 Aug 2023 22:02

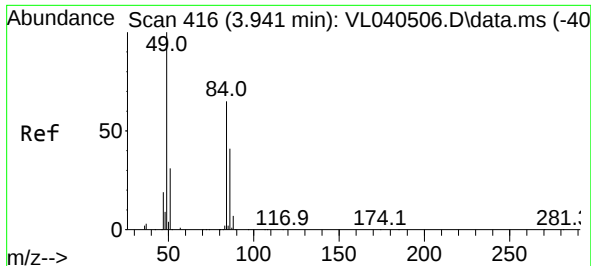
Tgt Ion: 39 Resp: 13359

Ion Ratio Lower Upper

39 100

54 0.0 66.6 100.0#





#20

Methylene Chloride

Concen: 11.585 ppbv

RT: 3.928 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 84 Resp: 505620

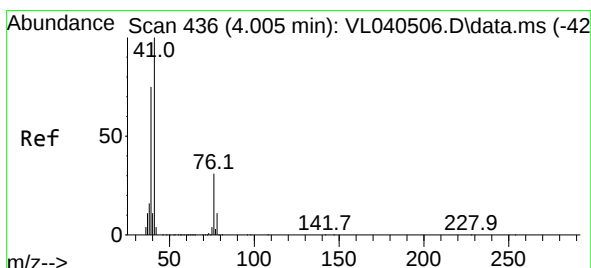
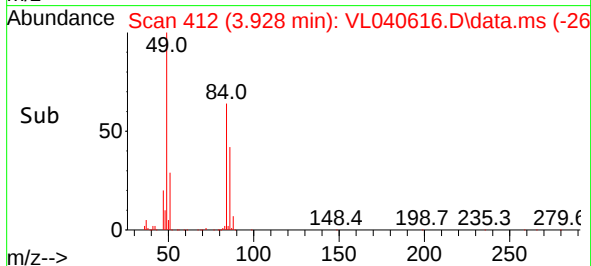
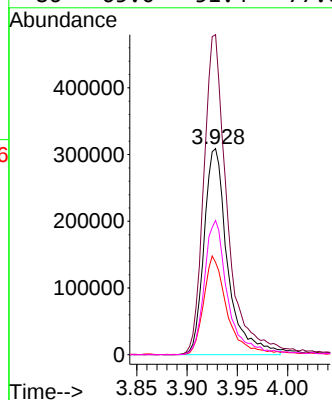
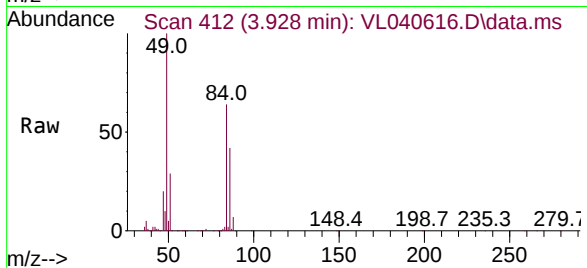
Ion Ratio Lower Upper

84 100

49 155.0 123.4 185.2

51 44.7 38.3 57.5

86 65.0 51.4 77.0



#21

Allyl Chloride

Concen: 0.036 ppbv

RT: 3.986 min Scan# 430

Delta R.T. -0.019 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

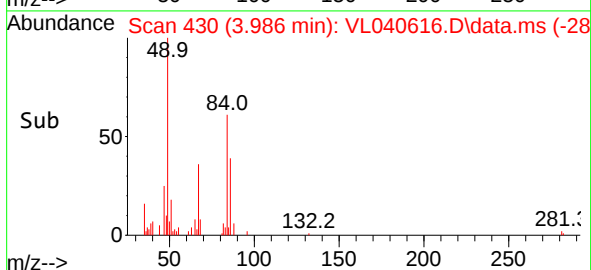
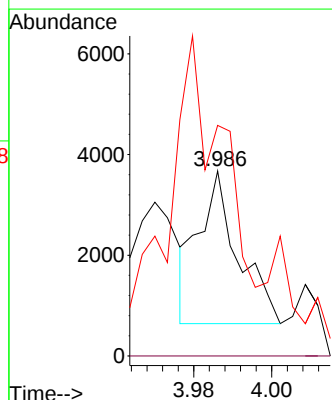
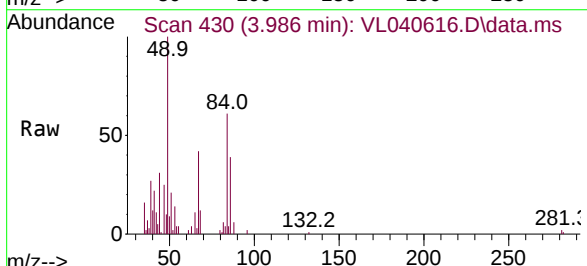
Tgt Ion: 41 Resp: 2114

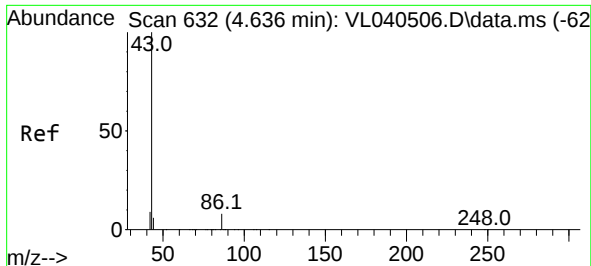
Ion Ratio Lower Upper

41 100

76 0.0 24.8 37.2#

39 435.1 60.6 91.0#



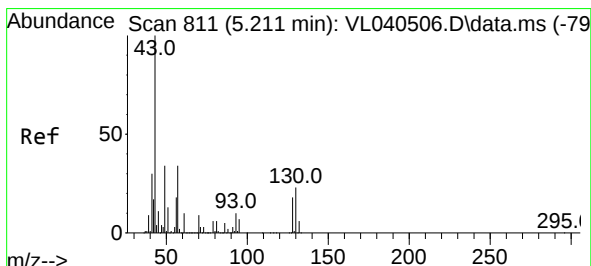
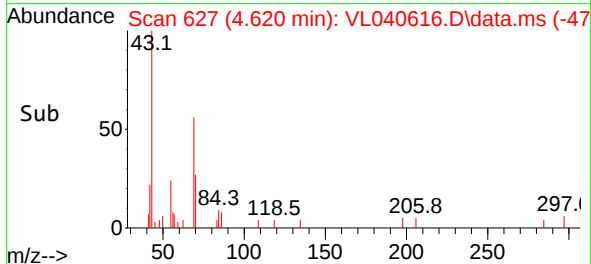
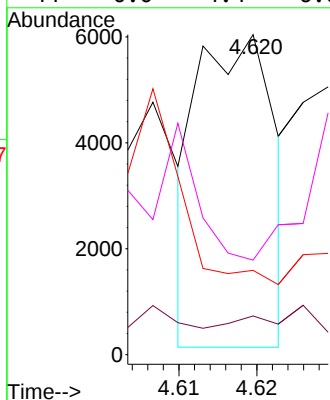
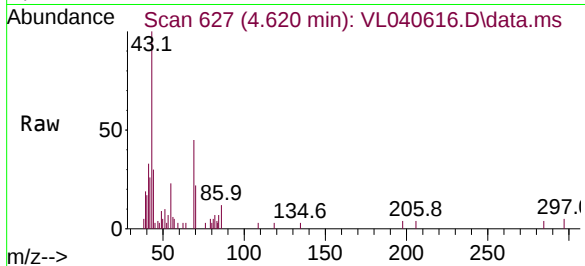


#23
 Vinyl Acetate
 Concen: 0.041 ppbv
 RT: 4.620 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040616.D
 Acq: 9 Aug 2023 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 43 Resp: 4000

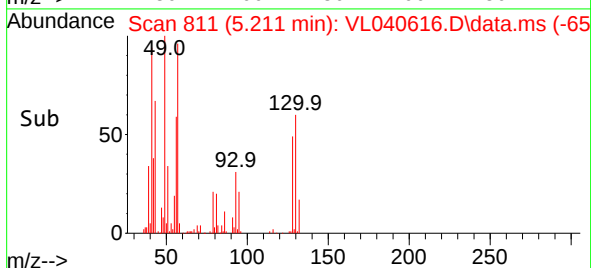
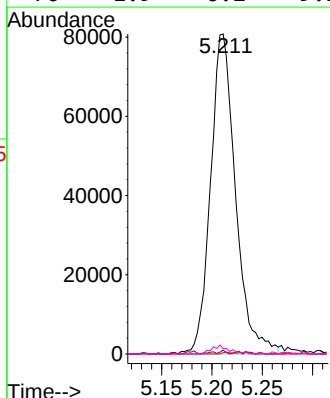
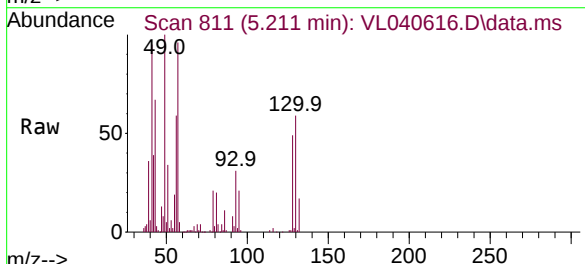
Ion	Ratio	Lower	Upper
43	100		
86	6.2	5.6	8.4
42	10.8	7.4	11.2
44	0.0	4.4	6.6

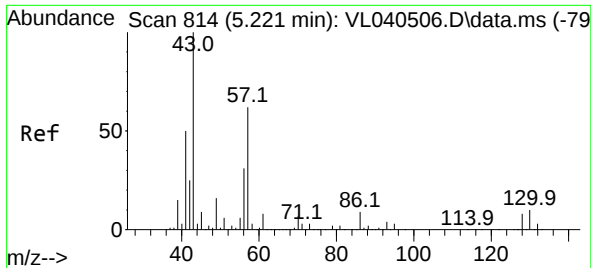


#25
 Ethyl Acetate
 Concen: 0.715 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. -0.000 min
 Lab File: VL040616.D
 Acq: 9 Aug 2023 22:02

Tgt Ion: 43 Resp: 139724

Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.2	12.4
61	0.0	8.3	12.5
70	1.9	6.2	9.2

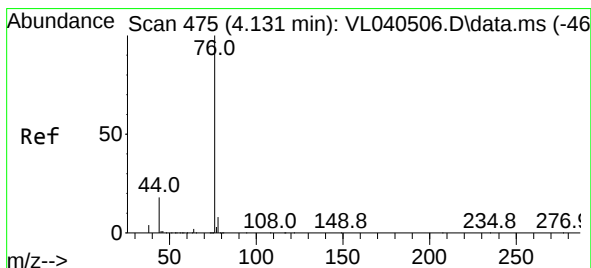
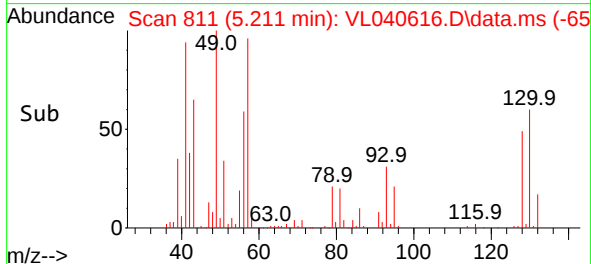
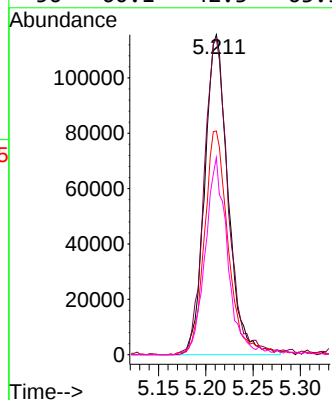
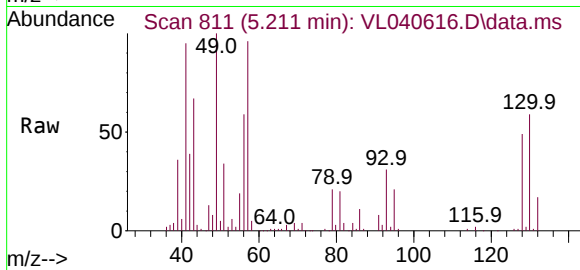




#26
Hexane
Concen: 2.189 ppbv
RT: 5.211 min Scan# 814
Delta R.T. -0.010 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

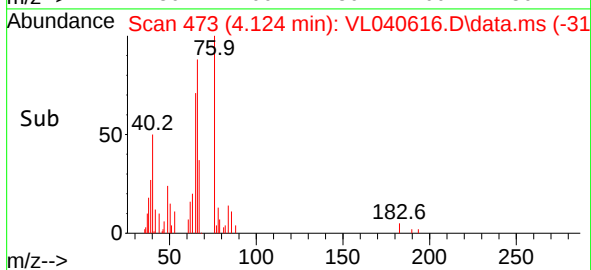
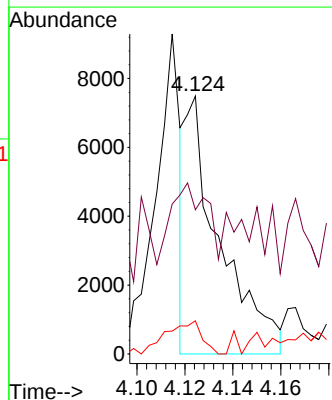
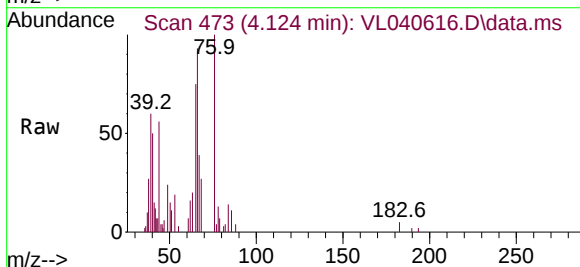
Instrument :
MSVOA_L
ClientSampleId :
SV1

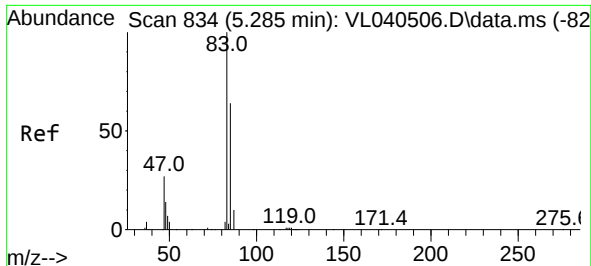
Tgt Ion: 57 Resp: 198648
Ion Ratio Lower Upper
57 100
41 103.8 69.5 104.3
43 71.4 177.1 265.7#
56 60.1 42.3 63.5



#27
Carbon Disulfide
Concen: 0.070 ppbv
RT: 4.124 min Scan# 473
Delta R.T. -0.006 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

Tgt Ion: 76 Resp: 7425
Ion Ratio Lower Upper
76 100
44 39.0 15.1 22.7#
78 15.4 7.5 11.3#





#29

Chloroform

Concen: 0.253 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.016 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

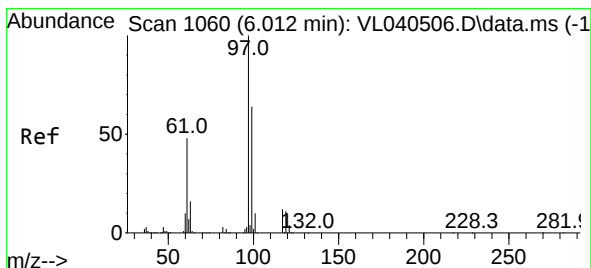
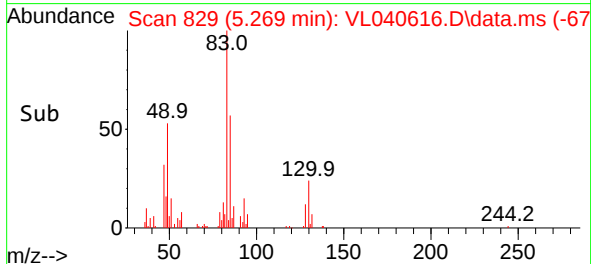
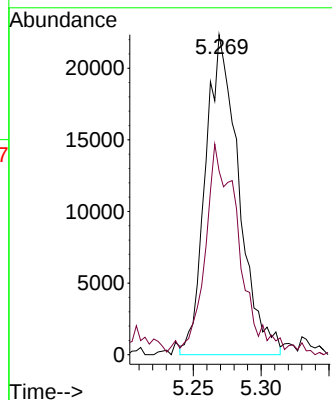
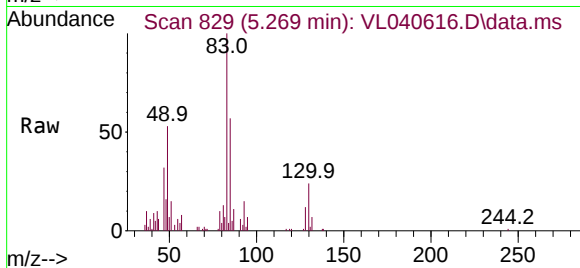
SV1

Tgt Ion: 83 Resp: 38105

Ion Ratio Lower Upper

83 100

85 56.8 51.1 76.7



#32

1,1,1-Trichloroethane

Concen: 1.603 ppbv

RT: 5.999 min Scan# 1056

Delta R.T. -0.013 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

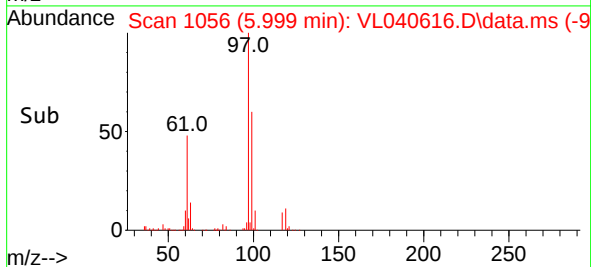
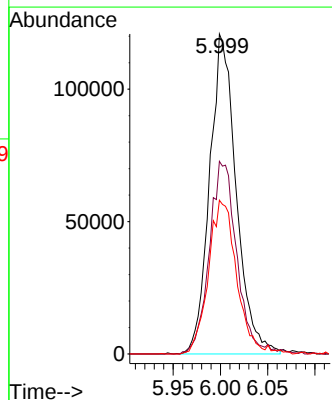
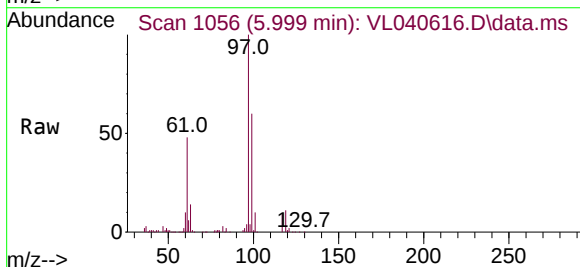
Tgt Ion: 97 Resp: 236116

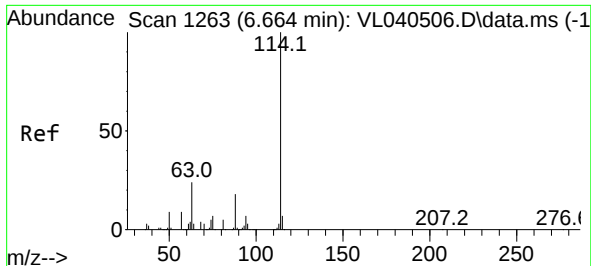
Ion Ratio Lower Upper

97 100

99 62.7 52.0 78.0

61 51.5 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV1

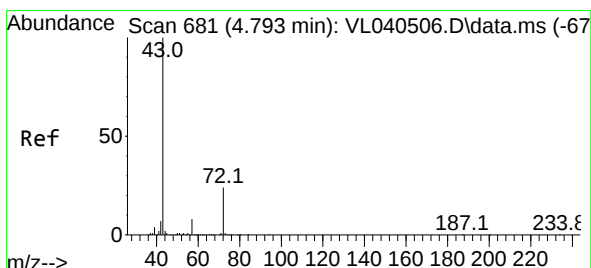
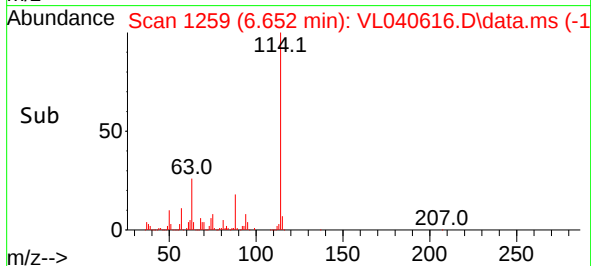
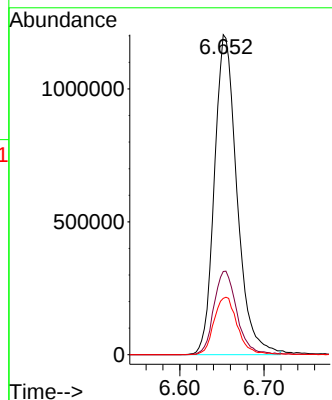
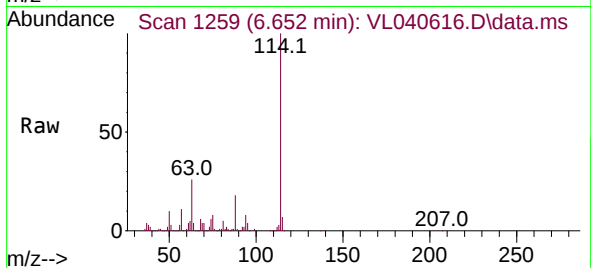
Tgt Ion:114 Resp: 2238759

Ion Ratio Lower Upper

114 100

63 27.0 19.6 29.4

88 18.8 14.2 21.2



#34

2-Butanone

Concen: 0.204 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.010 min

Lab File: VL040616.D

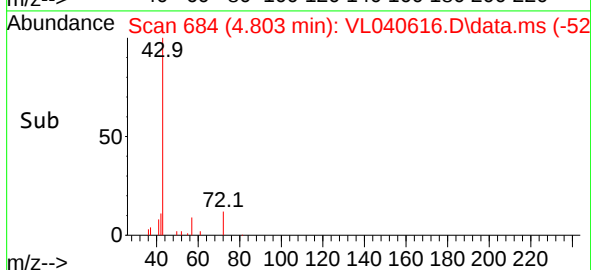
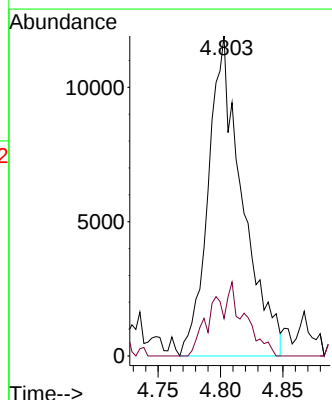
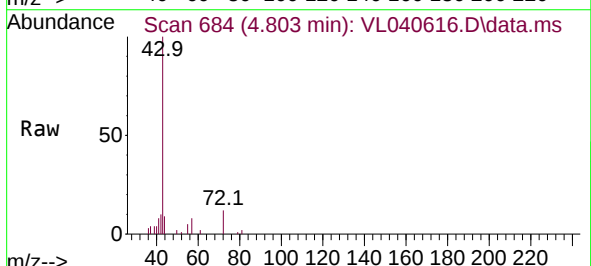
Acq: 9 Aug 2023 22:02

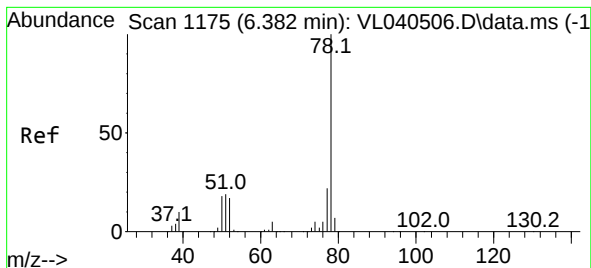
Tgt Ion: 43 Resp: 22617

Ion Ratio Lower Upper

43 100

72 22.3 19.1 28.7





#36

Benzene

Concen: 0.177 ppbv

RT: 6.372 min Scan# 1175

Delta R.T. -0.010 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV1

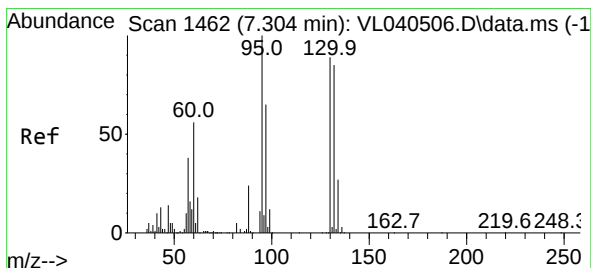
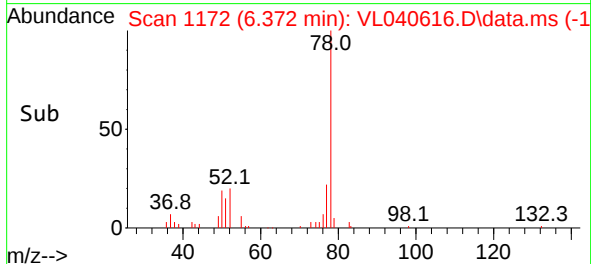
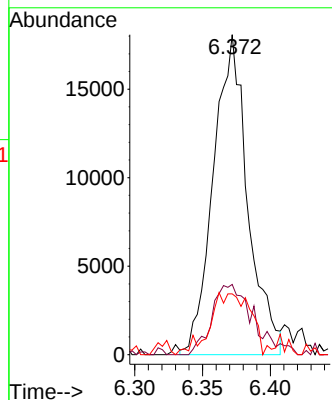
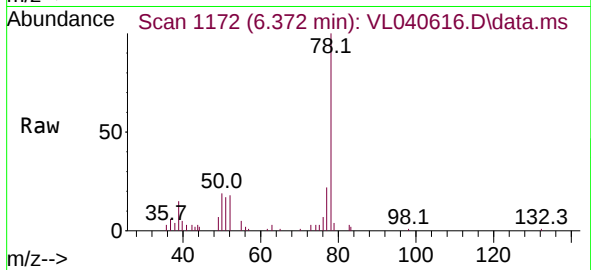
Tgt Ion: 78 Resp: 31910

Ion Ratio Lower Upper

78 100

77 22.2 17.4 26.0

50 17.8 14.4 21.6



#38

Trichloroethene

Concen: 0.072 ppbv

RT: 7.295 min Scan# 1459

Delta R.T. -0.010 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Tgt Ion: 130 Resp: 4908

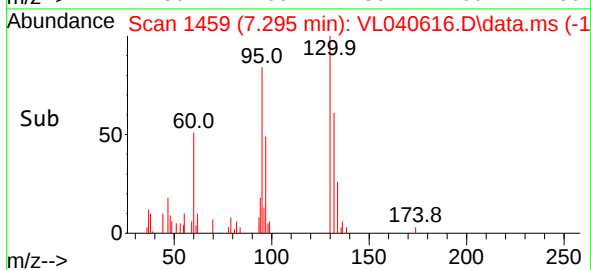
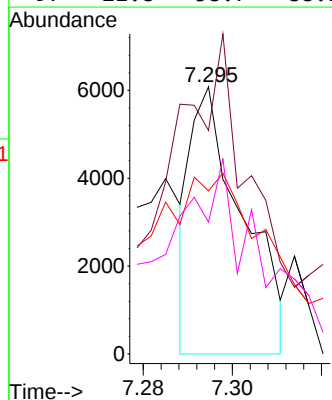
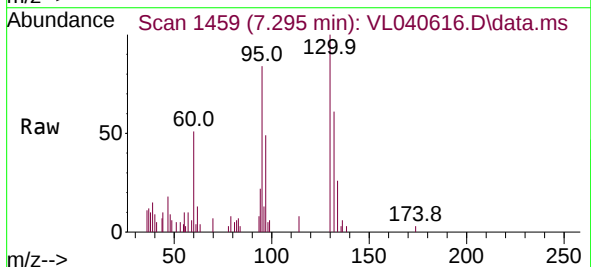
Ion Ratio Lower Upper

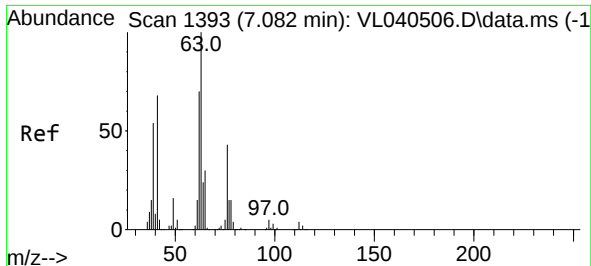
130 100

95 61.6 90.2 135.2#

132 31.0 76.3 114.5#

97 21.8 58.7 88.1#





#39

1,2-Dichloropropane

Concen: 8.609 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV1

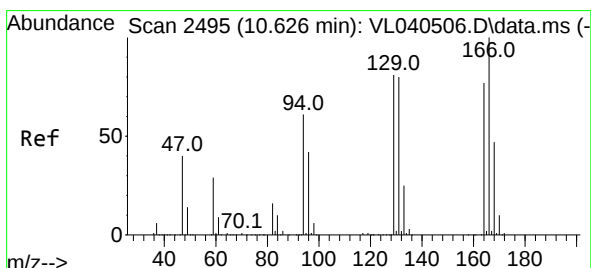
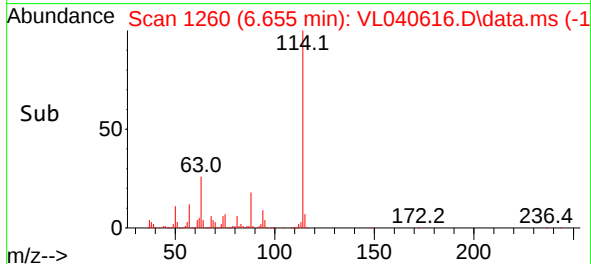
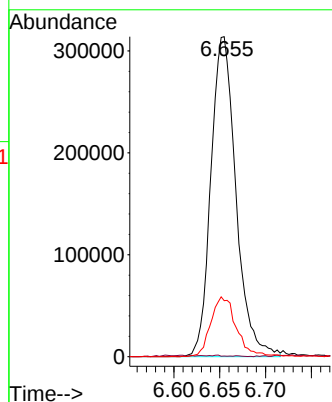
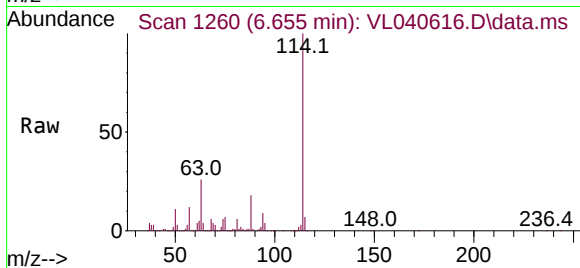
Tgt Ion: 63 Resp: 597008

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 17.5 55.6 83.4#



#52

Tetrachloroethene

Concen: 0.034 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. -0.019 min

Lab File: VL040616.D

Acq: 9 Aug 2023 22:02

Tgt Ion: 164 Resp: 2007

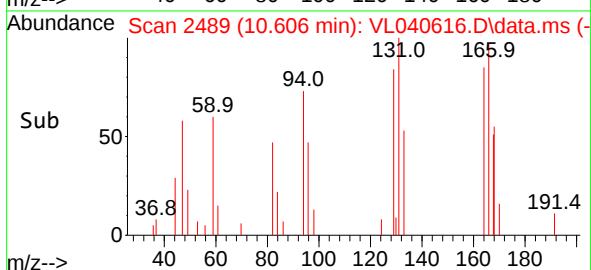
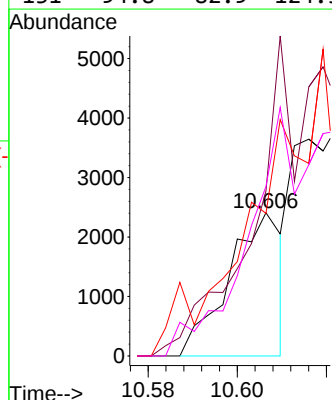
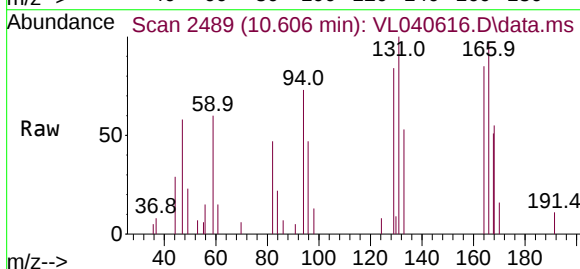
Ion Ratio Lower Upper

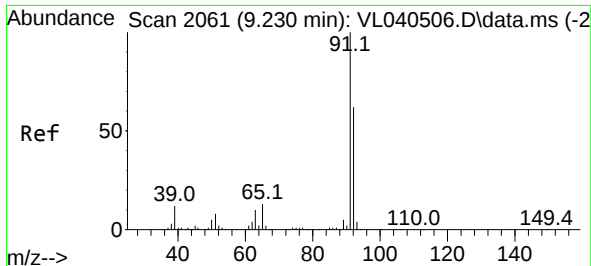
164 100

166 102.2 103.9 155.9#

129 48.2 84.6 126.8#

131 94.8 82.9 124.3

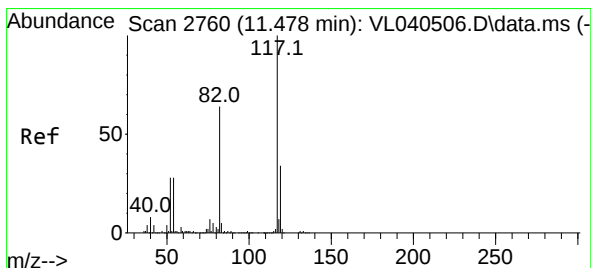
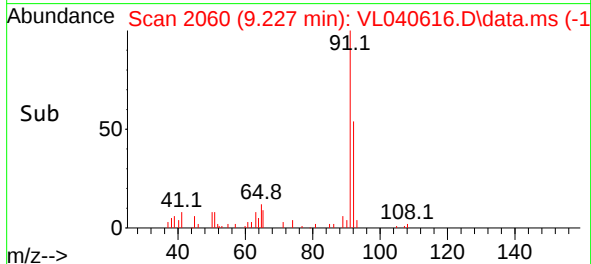
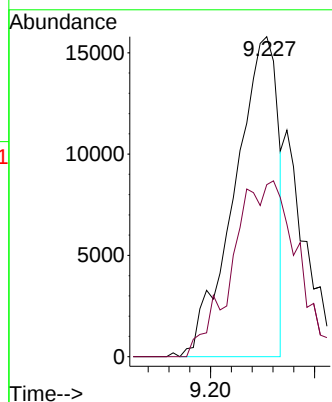
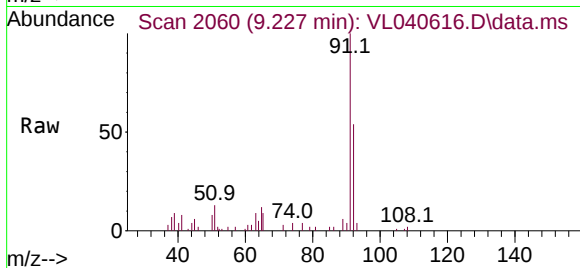




#53
Toluene
Concen: 0.117 ppbv
RT: 9.227 min Scan# 2061
Delta R.T. -0.003 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

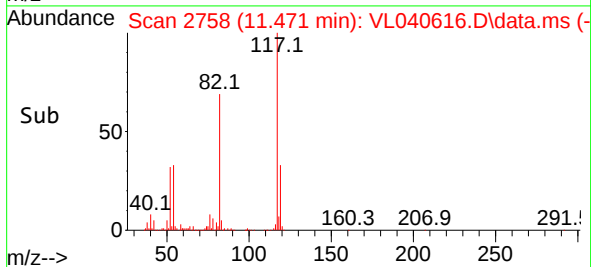
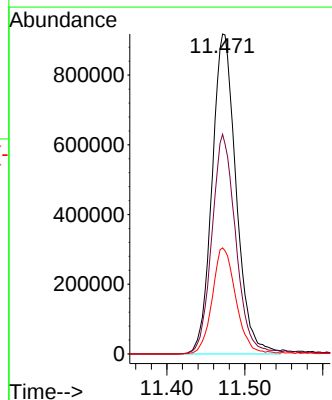
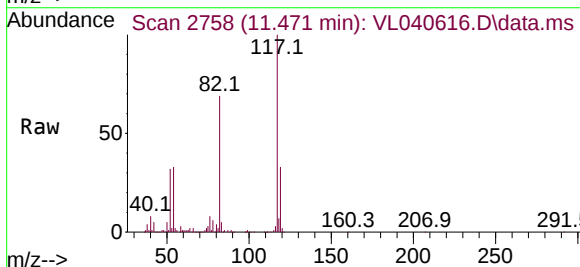
Instrument :
MSVOA_L
ClientSampleId :
SV1

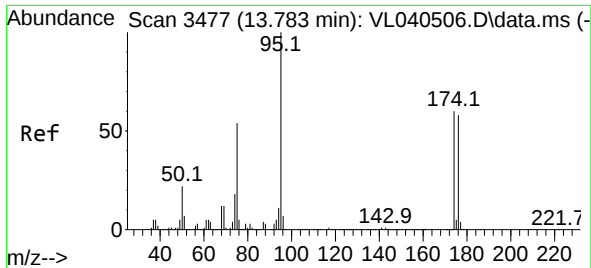
Tgt Ion: 91 Resp: 22922
Ion Ratio Lower Upper
91 100
92 82.4 49.1 73.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL040616.D
Acq: 9 Aug 2023 22:02

Tgt Ion: 117 Resp: 1971475
Ion Ratio Lower Upper
117 100
82 69.5 50.2 75.4
119 33.1 26.9 40.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.491 ppbv
 RT: 13.783 min Scan# 3477
 Delta R.T. -0.000 min
 Lab File: VL040616.D
 Acq: 9 Aug 2023 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 95 Resp: 1636834

Ion	Ratio	Lower	Upper
95	100		
174	58.5	50.6	75.8
175	4.3	3.7	5.5

