

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039792.D
 Acq On : 25 Oct 2022 17:53
 Operator : SY/AP
 Sample : N5227-12
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L

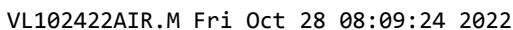
Quant Time: Oct 28 08:09:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Oct 24 20:00:55 2022
 Response via : Initial Calibration

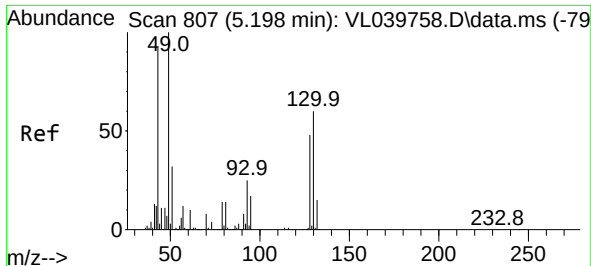
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards							
1) Bromochloromethane		5.205	49	905341	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.661	114	2266587	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.468	117	1979427	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.777	95	1409308	10.009	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		2.755	85	32706	0.345	ppbv	89
3) Chlorodifluoromethane		2.694	51	395028	3.632	ppbv #	64
4) Chloromethane		2.829	50	30428	0.447	ppbv #	61
9) Propene		2.719	41	18302	0.392	ppbv #	66
10) Heptane		7.587	43	7316	0.065	ppbv #	49
11) Trichlorofluoromethane		3.584	101	32356	0.244	ppbv	98
12) 1,1,2-Trichlorotrifluo...		4.083	101	5014	0.049	ppbv #	54
13) Ethanol		3.263	45	101458	30.233	ppbv	99
15) Acetone		3.488	43	519930	4.808	ppbv	97
16) 1,3-Butadiene		3.005	39	1857	0.035	ppbv #	1
19) Isopropyl Alcohol		3.610	45	108826	2.148	ppbv #	85
20) Methylene Chloride		3.951	84	1886780	45.862	ppbv	97
23) Vinyl Acetate		4.629	43	4958	0.119	ppbv #	23
25) Ethyl Acetate		5.227	43	813070	3.846	ppbv #	76
26) Hexane		5.227	57	1119744	12.738	ppbv #	38
27) Carbon Disulfide		4.144	76	4645	0.045	ppbv #	30
34) 2-Butanone		4.809	43	19656	0.184	ppbv #	78
36) Benzene		6.372	78	9543	0.055	ppbv #	95
39) 1,2-Dichloropropane		6.658	63	565209	8.405	ppbv #	26
41) Tetrahydrofuran		5.227	42	437005	6.596	ppbv #	51
44) 2,2,4-Trimethylpentane		7.337	57	30863	0.106	ppbv #	46
53) Toluene		9.227	91	44101	0.241	ppbv #	76
74) 1,2,4-Trimethylbenzene		16.114	105	13750	0.062	ppbv #	62

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

Quant Time: Oct 28 08:09:14 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Oct 24 20:00:55 2022
Response via : Initial Calibration

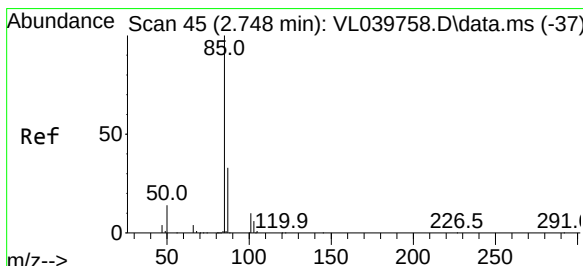
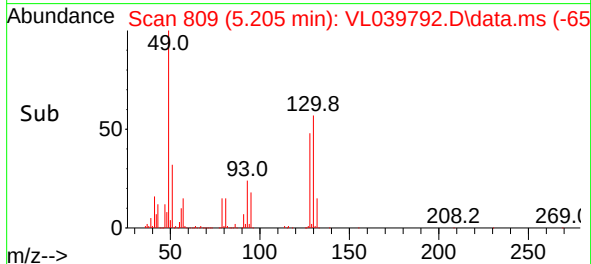
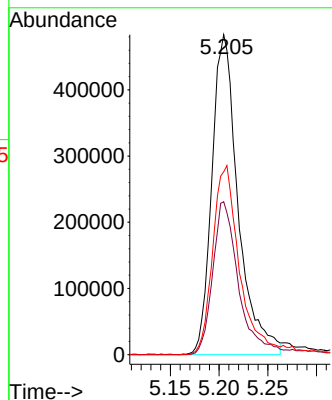
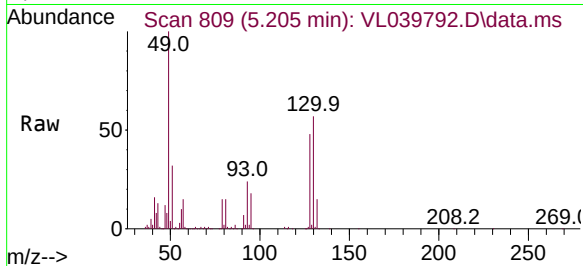




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. 0.007 min
 Lab File: VL039792.D
 Acq: 25 Oct 2022 17:53

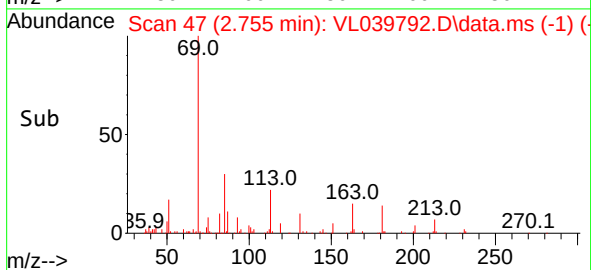
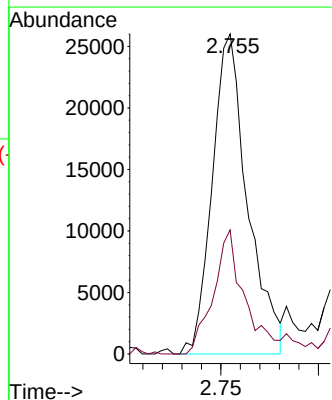
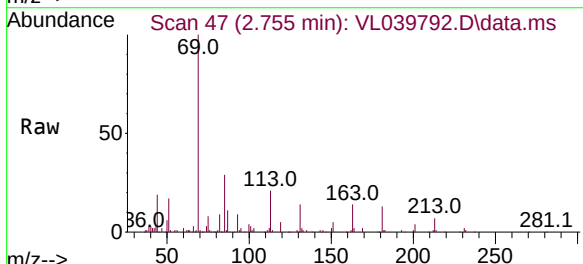
Instrument :
 MSVOA_L
 ClientSampleId :
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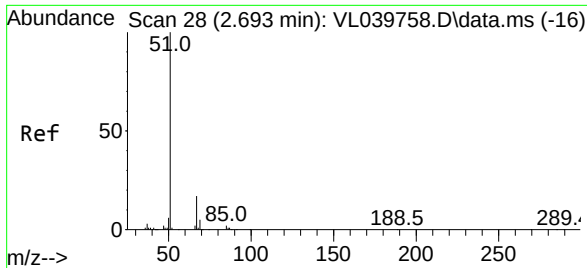
Tgt Ion: 49 Resp: 905341
 Ion Ratio Lower Upper
 49 100
 128 49.5 24.6 74.0
 130 63.5 31.8 95.3



#2
 Dichlorodifluoromethane
 Concen: 0.345 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. 0.007 min
 Lab File: VL039792.D
 Acq: 25 Oct 2022 17:53

Tgt Ion: 85 Resp: 32706
 Ion Ratio Lower Upper
 85 100
 87 38.7 26.1 39.1

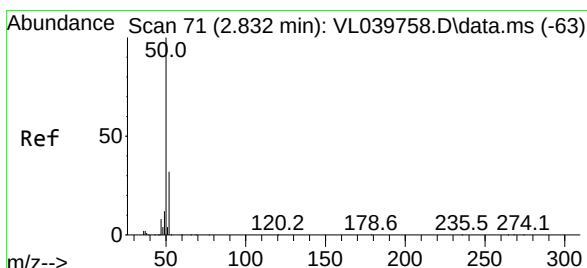
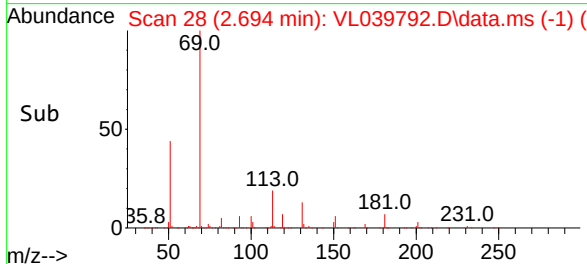
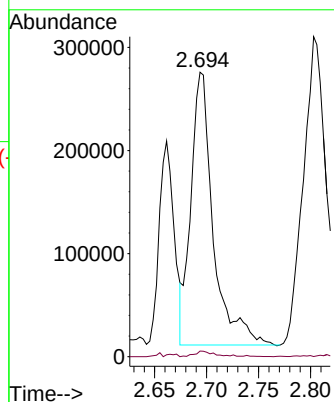
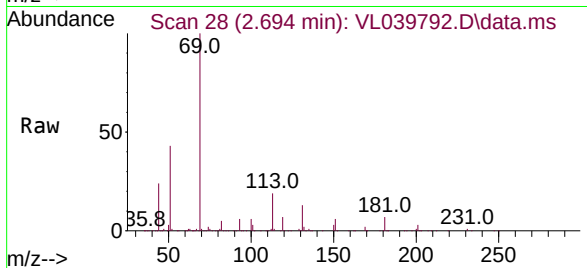




#3
Chlorodifluoromethane
Concen: 3.632 ppbv
RT: 2.694 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

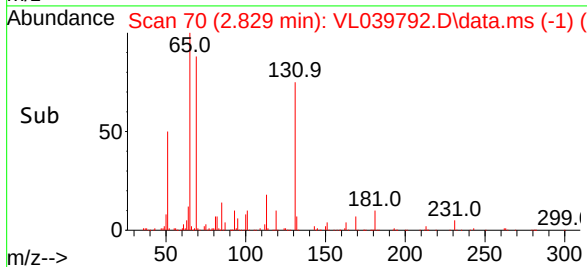
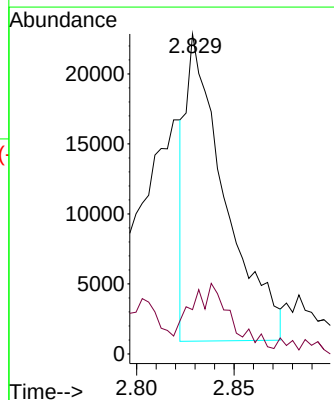
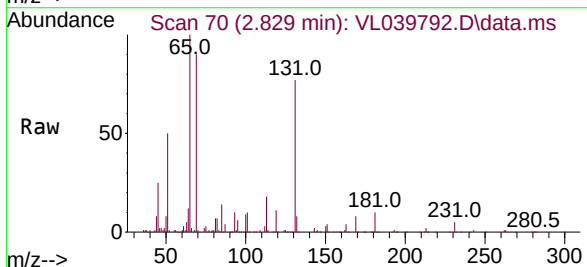
Instrument :
MSVOA_L
ClientSampleId :
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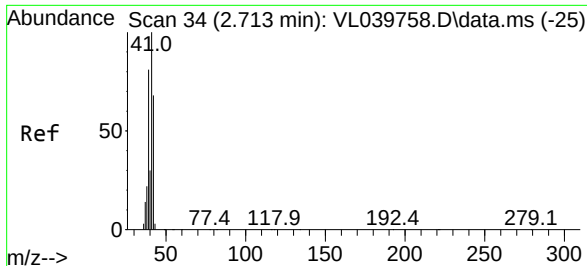
Tgt Ion: 51 Resp: 395028
Ion Ratio Lower Upper
51 100
67 2.0 14.2 21.2#



#4
Chloromethane
Concen: 0.447 ppbv
RT: 2.829 min Scan# 70
Delta R.T. -0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 50 Resp: 30428
Ion Ratio Lower Upper
50 100
52 10.3 25.9 38.9#





#9

Propene

Concen: 0.392 ppbv

RT: 2.719 min Scan# 30

Delta R.T. 0.007 min

Lab File: VL039792.D

Acq: 25 Oct 2022 17:53

Instrument :

MSVOA_L

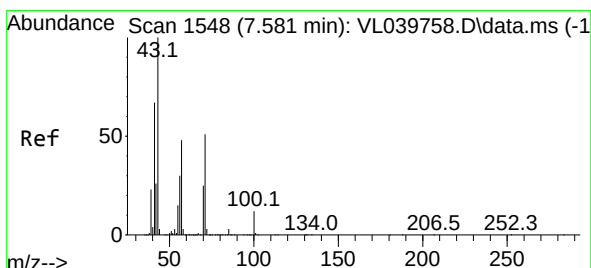
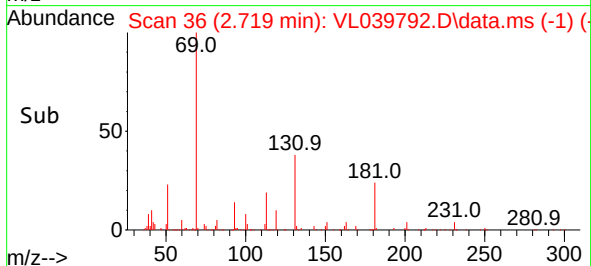
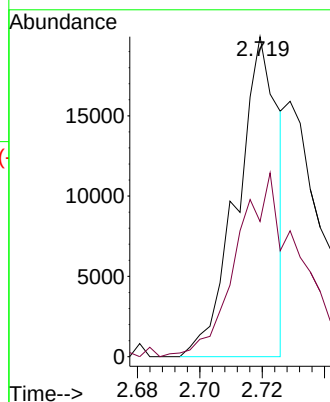
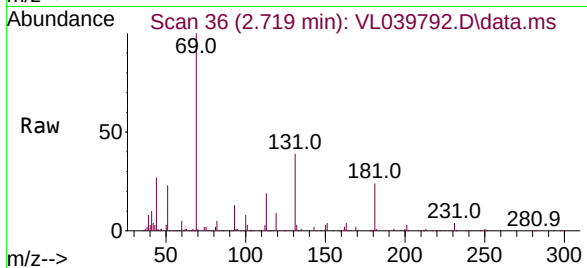
ClientSampleId :

Tgt Ion: 41 Resp: 18302

Ion Ratio Lower Upper

41 100

42 101.2 58.0 87.0#



#10

Heptane

Concen: 0.065 ppbv

RT: 7.587 min Scan# 1550

Delta R.T. 0.007 min

Lab File: VL039792.D

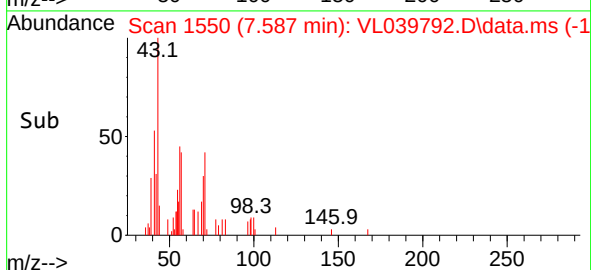
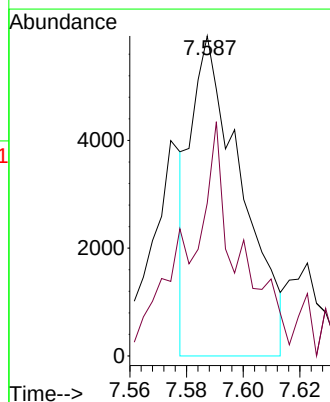
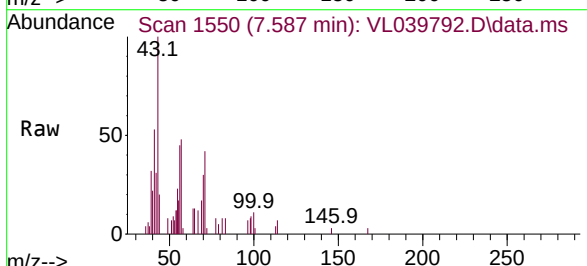
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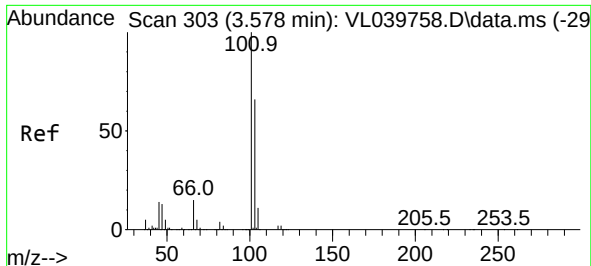
Tgt Ion: 43 Resp: 7316

Ion Ratio Lower Upper

43 100

57 85.5 40.0 60.0#

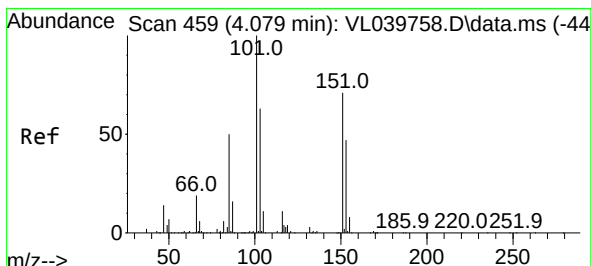
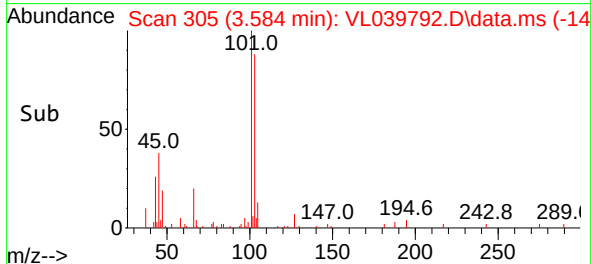
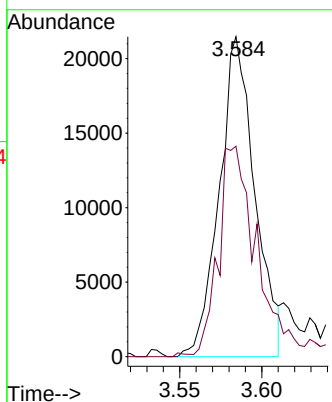
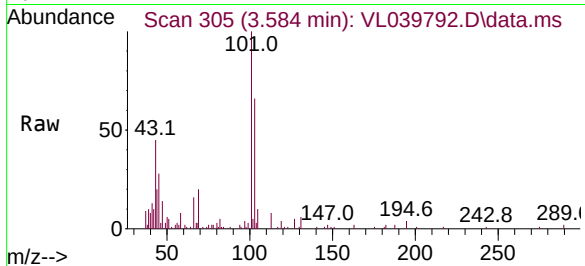




#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 3.584 min Scan# 303
 Delta R.T. 0.007 min
 Lab File: VL039792.D
 Acq: 25 Oct 2022 17:53

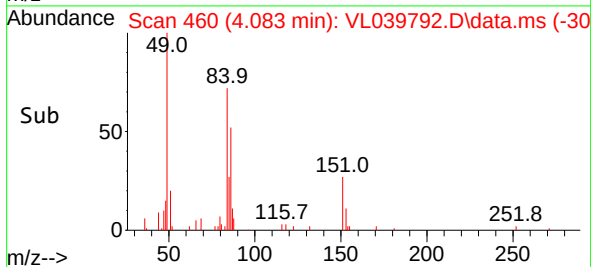
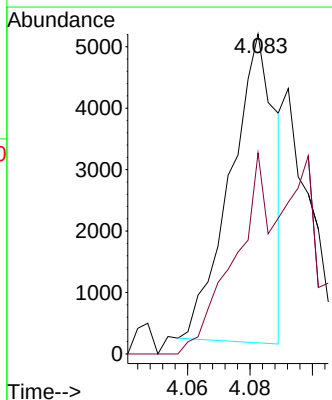
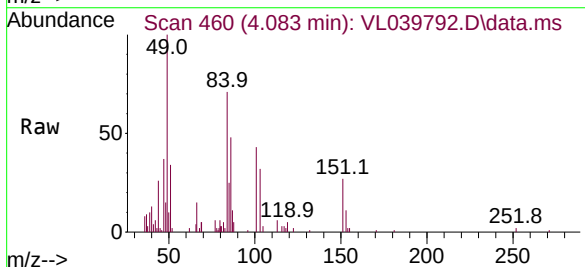
Instrument :
 MSVOA_L
 ClientSampleId :
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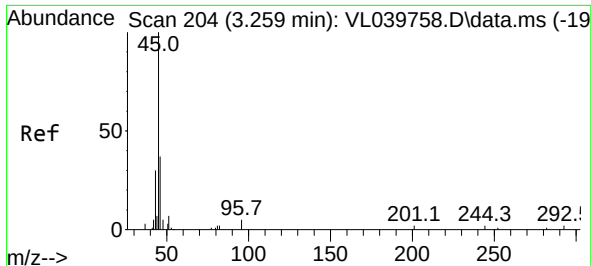
Tgt Ion:101 Resp: 32356
 Ion Ratio Lower Upper
 101 100
 103 64.6 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.049 ppbv
 RT: 4.083 min Scan# 460
 Delta R.T. 0.003 min
 Lab File: VL039792.D
 Acq: 25 Oct 2022 17:53

Tgt Ion:101 Resp: 5014
 Ion Ratio Lower Upper
 101 100
 151 109.0 56.6 84.8#

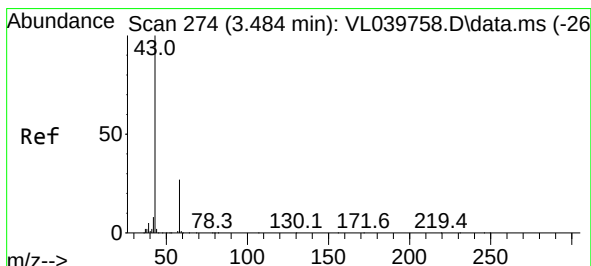
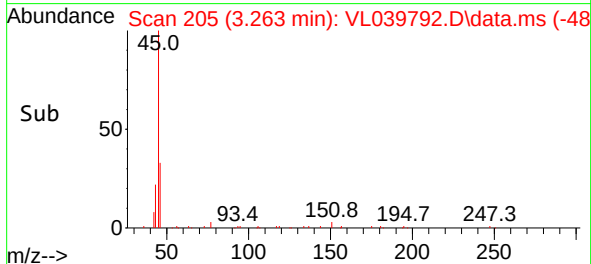
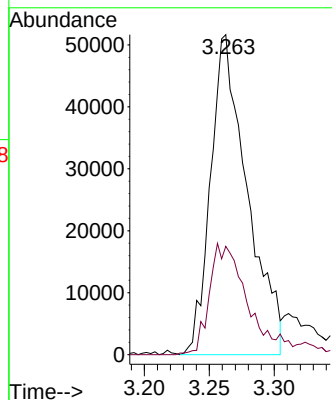
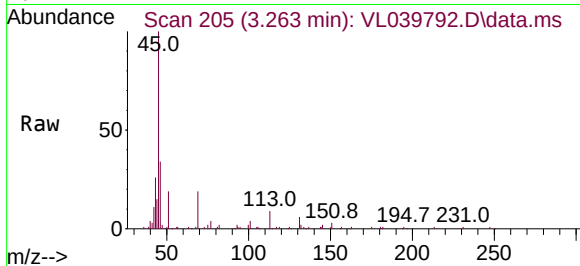




#13
Ethanol
Concen: 30.233 ppbv
RT: 3.263 min Scan# 204
Delta R.T. 0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

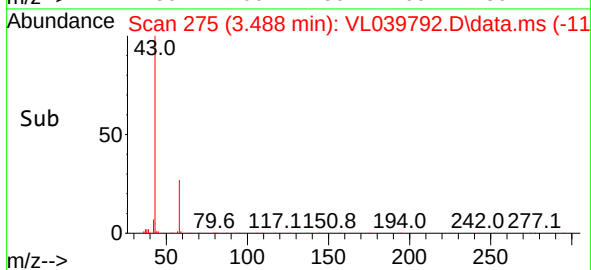
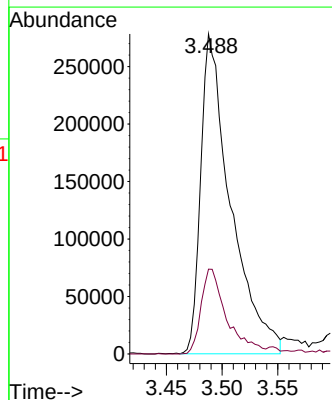
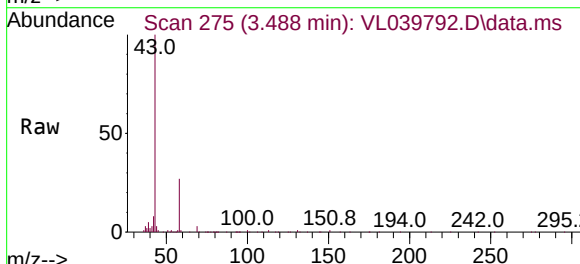
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MSVOA_L
ClientSampleId :
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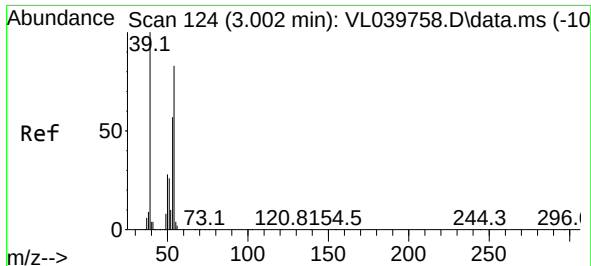
Tgt Ion: 45 Resp: 101458
Ion Ratio Lower Upper
45 100
46 38.7 15.3 61.3



#15
Acetone
Concen: 4.808 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 43 Resp: 519930
Ion Ratio Lower Upper
43 100
58 24.3 20.7 31.1





#16

1,3-Butadiene

Concen: 0.035 ppbv

RT: 3.005 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL039792.D

Acq: 25 Oct 2022 17:53

Instrument :

MSVOA_L

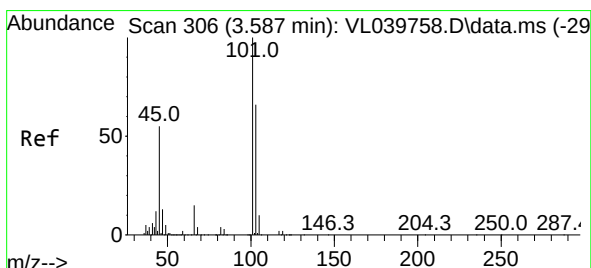
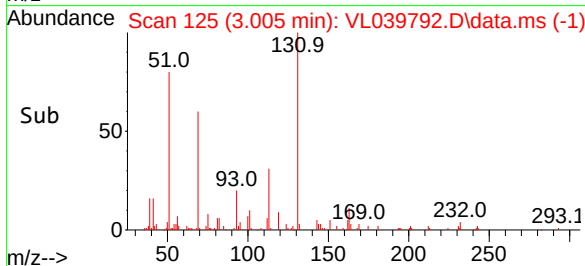
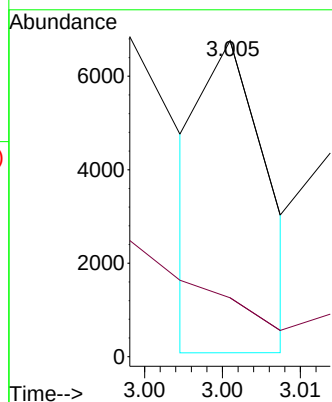
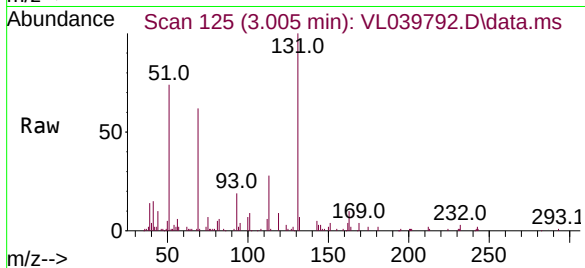
ClientSampleId :

Tgt Ion: 39 Resp: 1857

Ion Ratio Lower Upper

39 100

54 172.4 64.6 97.0#



#19

Isopropyl Alcohol

Concen: 2.148 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.023 min

Lab File: VL039792.D

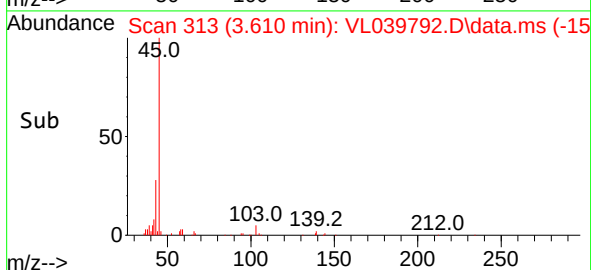
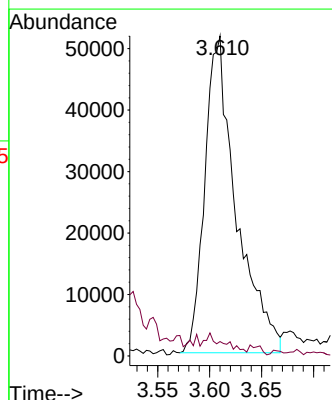
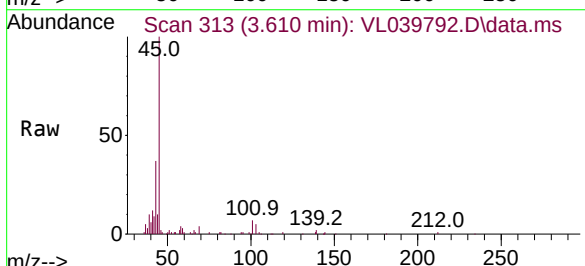
Acq: 25 Oct 2022 17:53

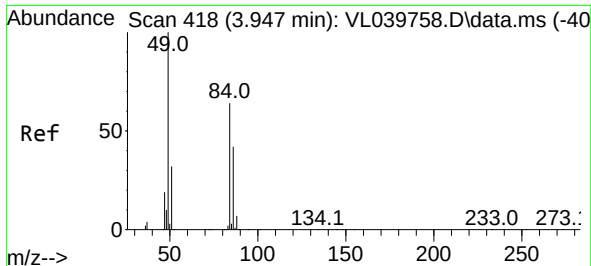
Tgt Ion: 45 Resp: 108826

Ion Ratio Lower Upper

45 100

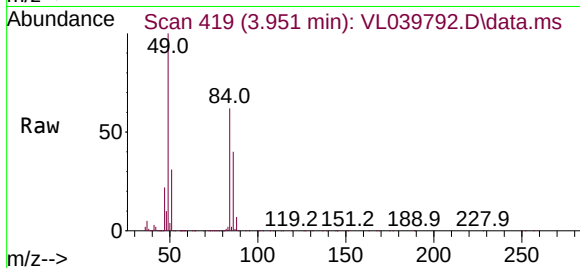
58 8.3 2.8 4.2#





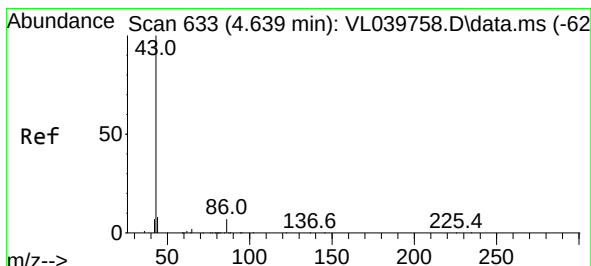
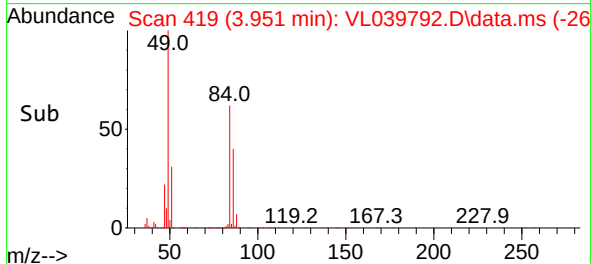
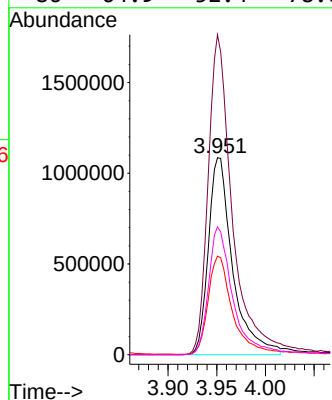
#20
Methylene Chloride
Concen: 45.862 ppbv
RT: 3.951 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Instrument :
MSVOA_L
ClientSampleId :
L



Tgt Ion: 84 Resp: 1886780

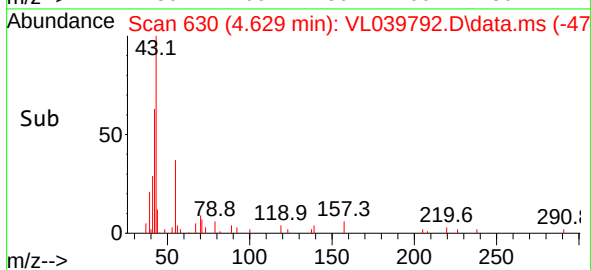
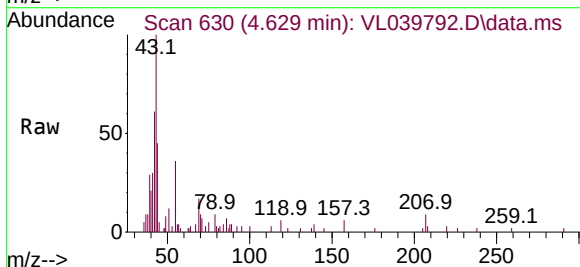
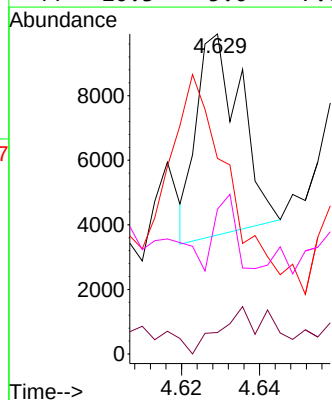
Ion	Ratio	Lower	Upper
84	100		
49	162.4	126.0	189.0
51	49.8	40.9	61.3
86	64.9	52.4	78.6

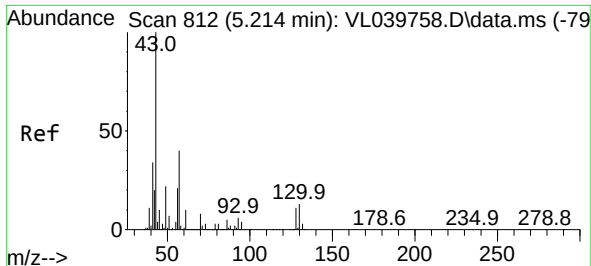


#23
Vinyl Acetate
Concen: 0.119 ppbv
RT: 4.629 min Scan# 630
Delta R.T. -0.010 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 43 Resp: 4958

Ion	Ratio	Lower	Upper
43	100		
86	3.1	4.9	7.3#
42	62.6	7.2	10.8#
44	20.3	5.0	7.6#

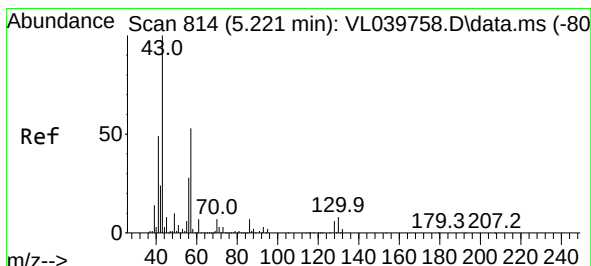
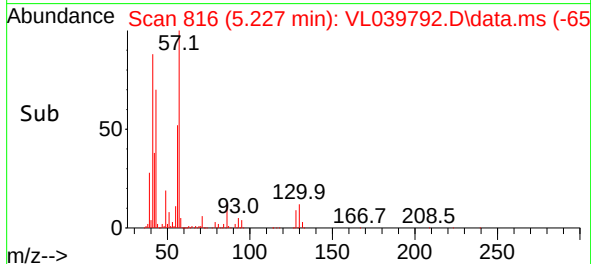
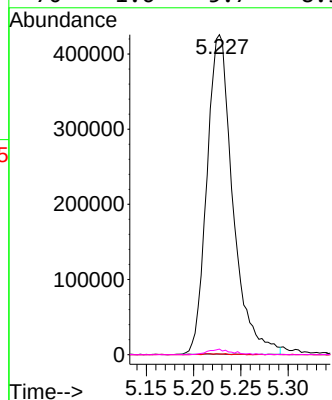
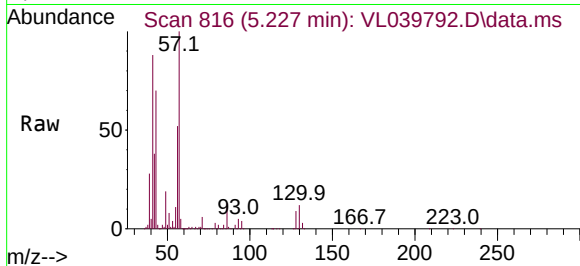




#25
Ethyl Acetate
Concen: 3.846 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.013 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

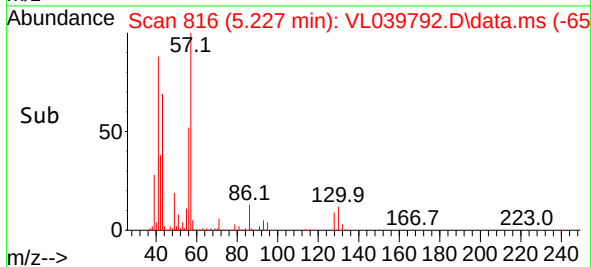
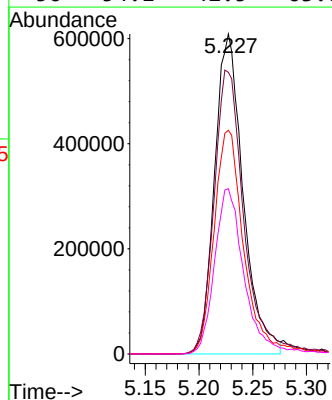
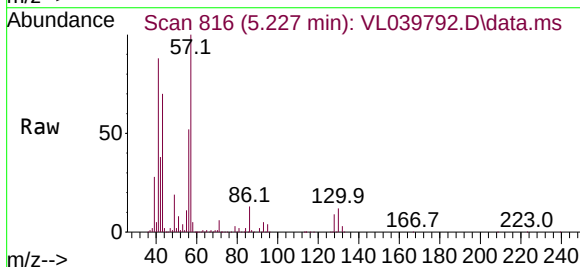
Instrument :
MSVOA_L
ClientSampleId :
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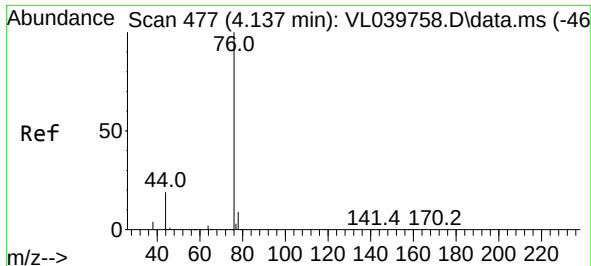
Tgt Ion: 43 Resp: 813070
Ion Ratio Lower Upper
43 100
45 0.4 8.2 12.2#
61 0.3 8.2 12.4#
70 1.6 5.7 8.5#



#26
Hexane
Concen: 12.738 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.007 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 57 Resp: 1119744
Ion Ratio Lower Upper
57 100
41 94.7 76.1 114.1
43 74.4 197.1 295.7#
56 54.1 42.5 63.7

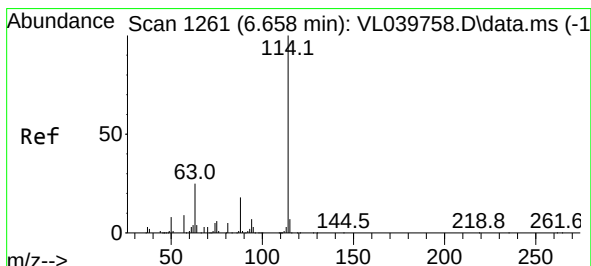
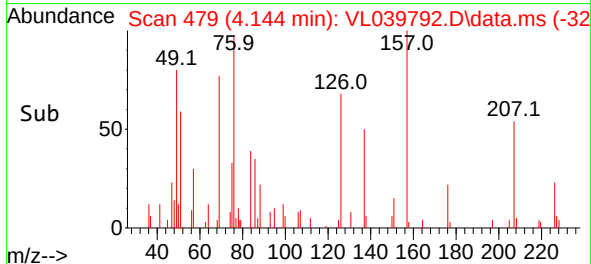
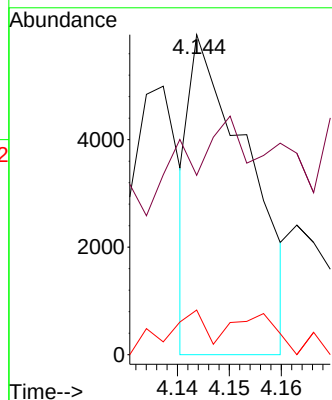
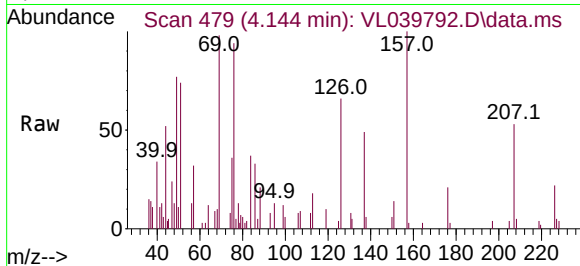




#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 4.144 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

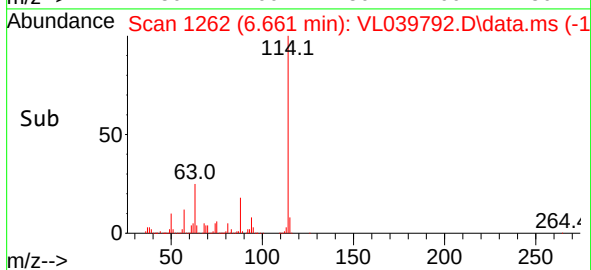
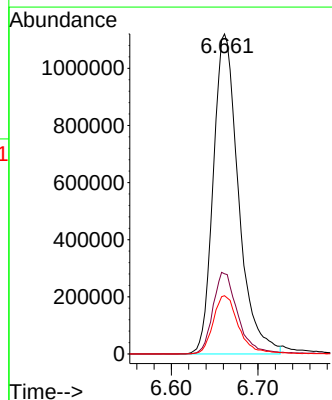
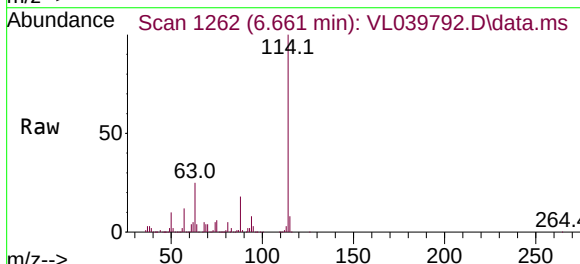
Instrument :
MSVOA_L
ClientSampleId :
L

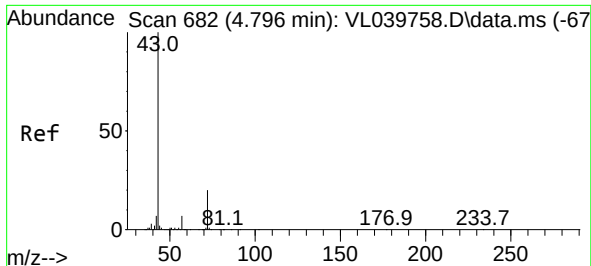
Tgt Ion: 76 Resp: 4645
Ion Ratio Lower Upper
76 100
44 62.1 16.6 25.0#
78 20.4 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 114 Resp: 2266587
Ion Ratio Lower Upper
114 100
63 25.7 20.1 30.1
88 18.5 14.5 21.7

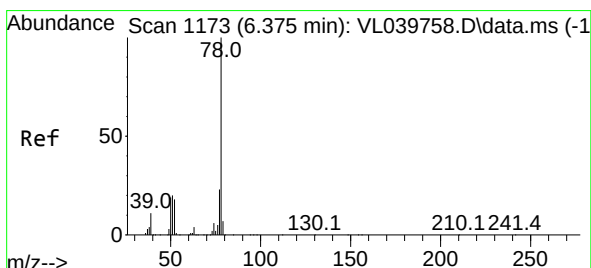
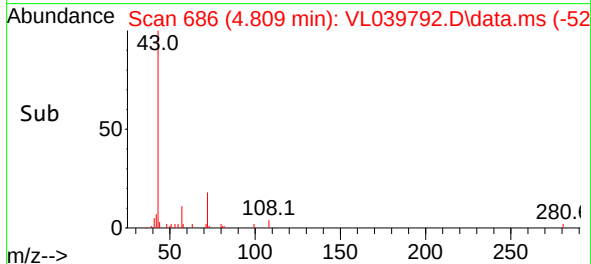
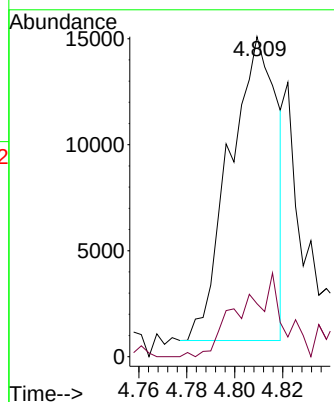
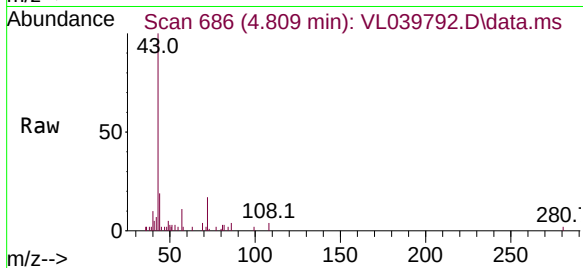




#34
2-Butanone
Concen: 0.184 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

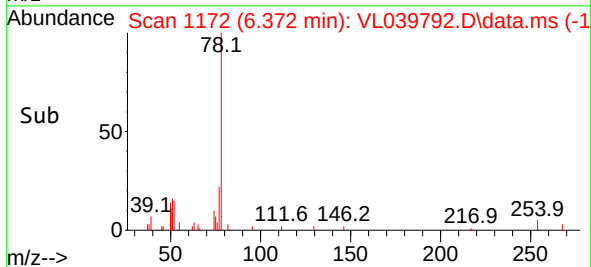
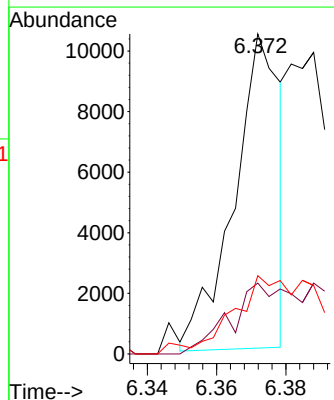
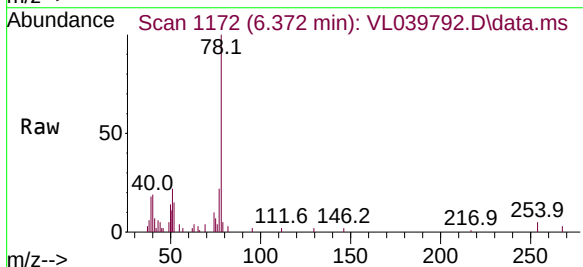
Instrument :
MSVOA_L
ClientSampleId :
L

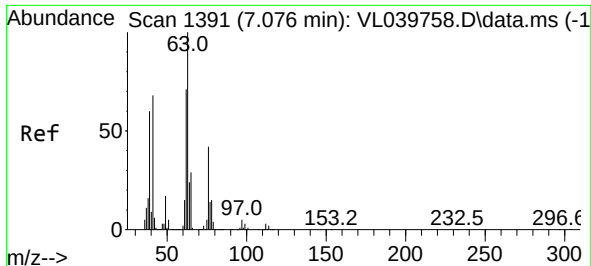
Tgt Ion: 43 Resp: 19656
Ion Ratio Lower Upper
43 100
72 30.8 16.5 24.7#



#36
Benzene
Concen: 0.055 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.003 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 78 Resp: 9543
Ion Ratio Lower Upper
78 100
77 23.0 18.3 27.5
50 14.6 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 8.405 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL039792.D

Acq: 25 Oct 2022 17:53

Instrument :

MSVOA_L

ClientSampleId :

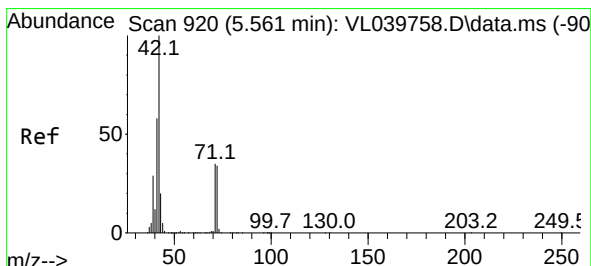
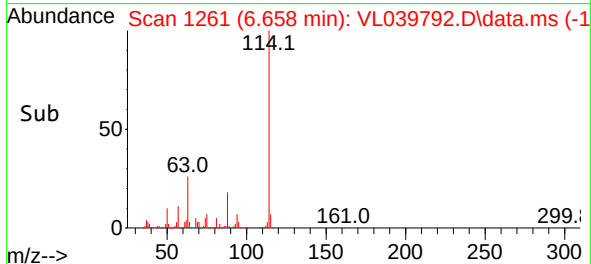
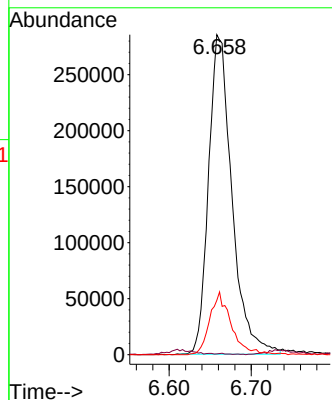
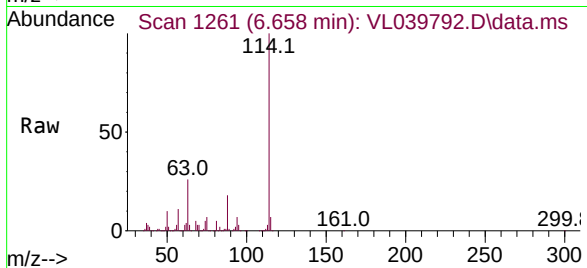
Tgt Ion: 63 Resp: 565209

Ion Ratio Lower Upper

63 100

41 0.0 54.5 81.7#

62 17.0 56.6 85.0#



#41

Tetrahydrofuran

Concen: 6.596 ppbv

RT: 5.227 min Scan# 816

Delta R.T. -0.334 min

Lab File: VL039792.D

Acq: 25 Oct 2022 17:53

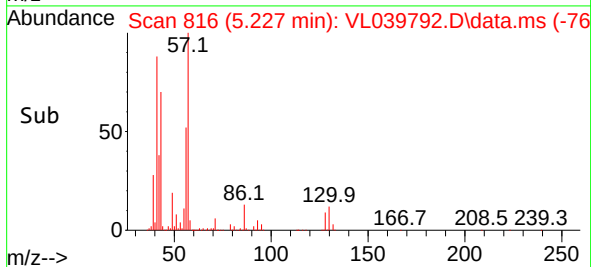
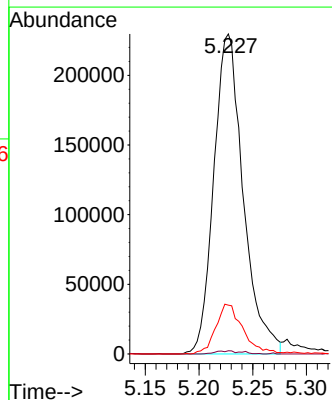
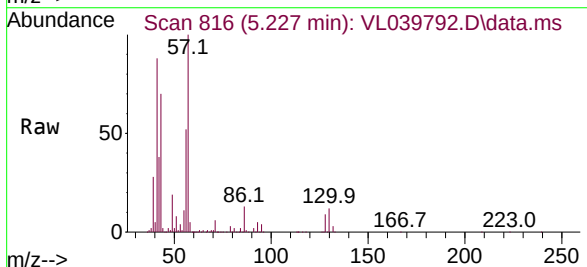
Tgt Ion: 42 Resp: 437005

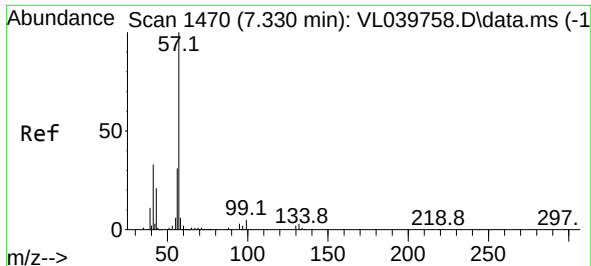
Ion Ratio Lower Upper

42 100

72 0.9 29.9 44.9#

71 14.9 29.2 43.8#

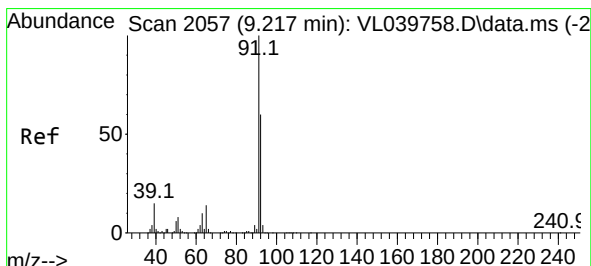
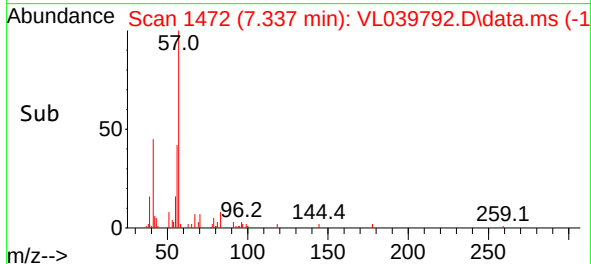
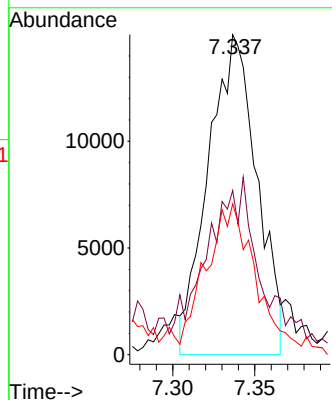
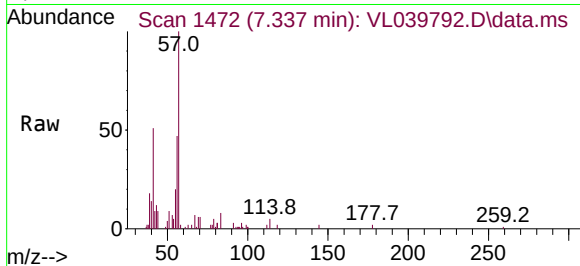




#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv
RT: 7.337 min Scan# 1470
Delta R.T. 0.007 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

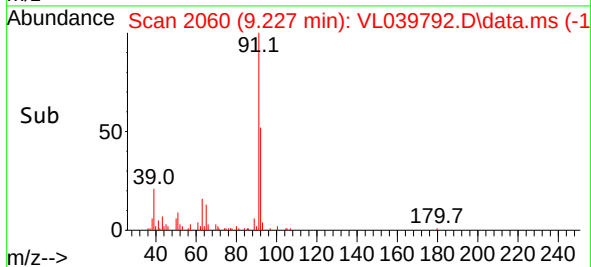
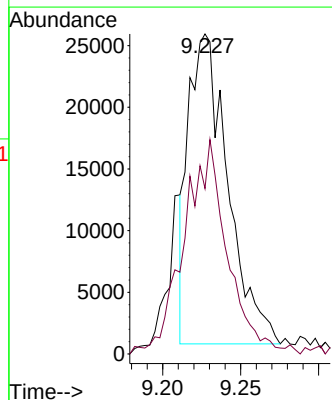
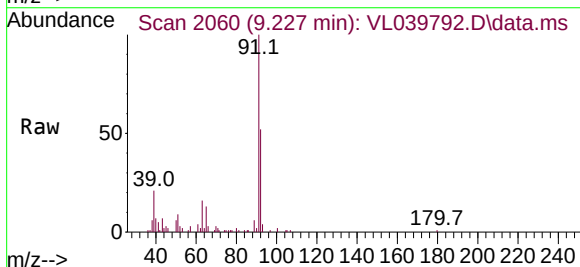
Instrument :
MSVOA_L
ClientSampleId :
L

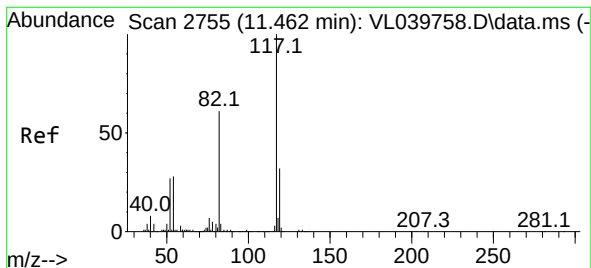
Tgt Ion: 57 Resp: 30863
Ion Ratio Lower Upper
57 100
41 68.7 26.6 40.0#
56 56.8 25.4 38.0#



#53
Toluene
Concen: 0.241 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. 0.010 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

Tgt Ion: 91 Resp: 44101
Ion Ratio Lower Upper
91 100
92 78.2 48.0 72.0#

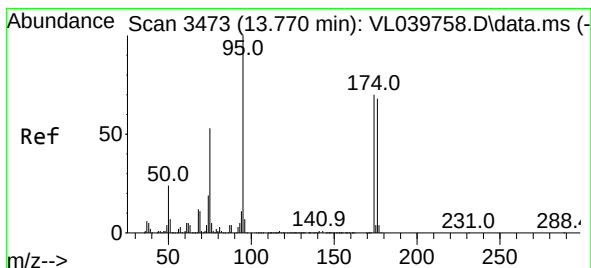
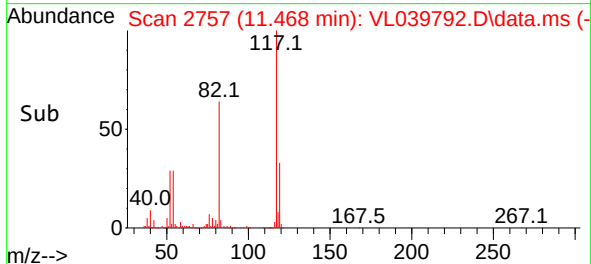
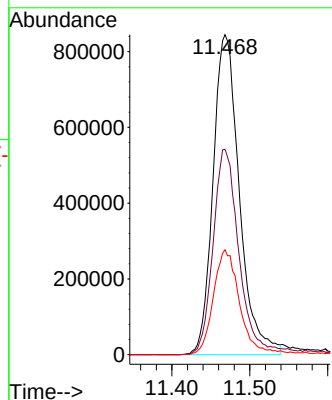
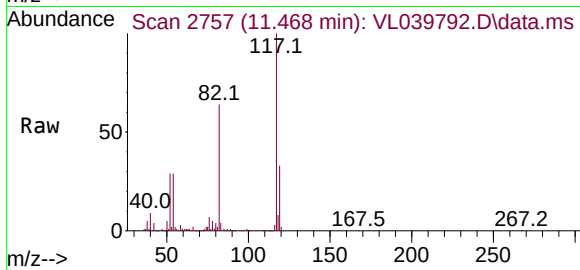




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

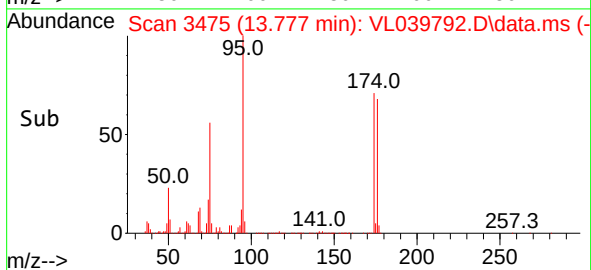
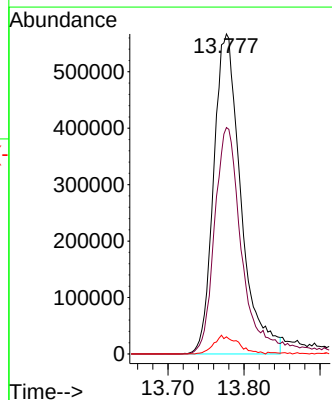
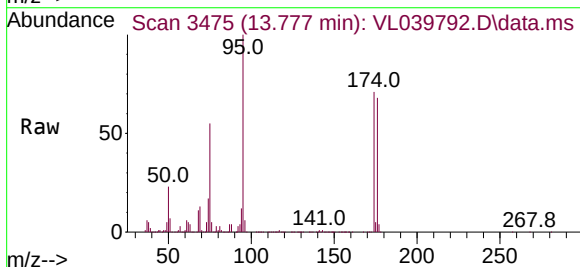
Instrument :
MSVOA_L
ClientSampleId :
L

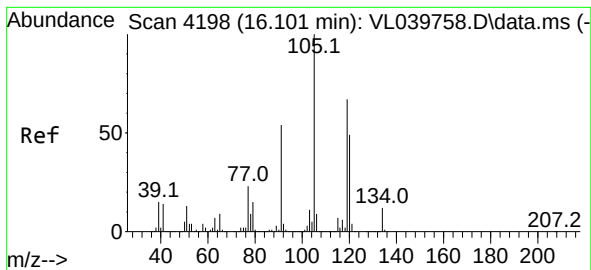
Tgt Ion:117 Resp: 1979427
Ion Ratio Lower Upper
117 100
82 65.7 49.9 74.9
119 33.6 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.009 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL039792.D
Acq: 25 Oct 2022 17:53

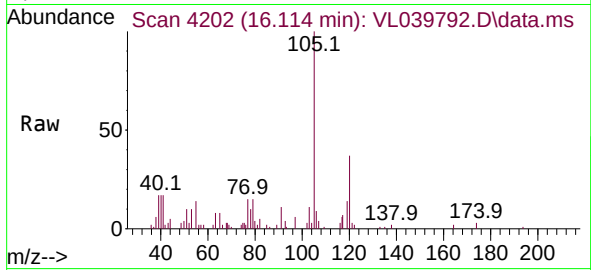
Tgt Ion: 95 Resp: 1409308
Ion Ratio Lower Upper
95 100
174 74.4 57.3 85.9
175 5.2 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.062 ppbv
 RT: 16.114 min Scan# 4198
 Delta R.T. 0.013 min
 Lab File: VL039792.D
 Acq: 25 Oct 2022 17:53

Instrument :
 MSVOA_L
 ClientSampleId :
 L



Tgt Ion:	105	Resp:	13750
Ion	Ratio	Lower	Upper
105	100		
120	39.5	39.6	59.4#
91	9.0	42.9	64.3#
77	8.9	18.2	27.4#

