

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041608.D
 Acq On : 18 Sep 2024 15:43
 Operator : SY/MD
 Sample : P4028-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 01:34:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

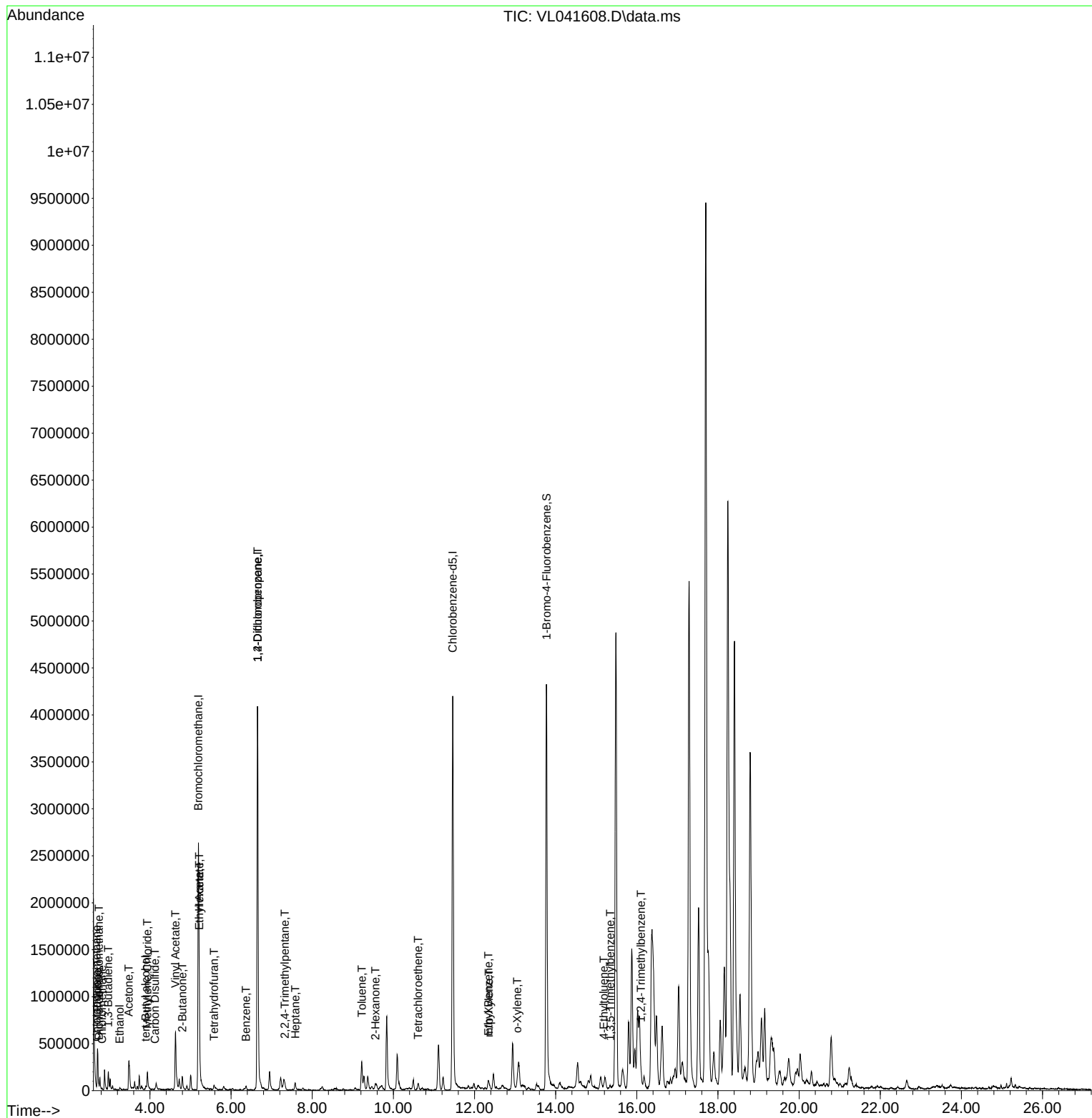
Internal Standards						
1) Bromochloromethane	5.192	49	1181339	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.652	114	3105157	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.465	117	2822973	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2133729	10.268	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	16237	0.095	ppbv	89
3) Chlorodifluoromethane	2.681	51	16443	0.115	ppbv #	83
4) Chloromethane	2.819	50	8976	0.114	ppbv	99
9) Propene	2.703	41	93206	1.542	ppbv	93
10) Heptane	7.584	43	10388	0.073	ppbv #	1
13) Ethanol	3.256	45	18630	4.100	ppbv	89
15) Acetone	3.478	43	360079	2.428	ppbv #	83
16) 1,3-Butadiene	2.973	39	48438	0.671	ppbv #	10
17) tert-Butyl alcohol	3.896	59	20930	0.160	ppbv #	93
20) Methylene Chloride	3.935	84	59854	1.074	ppbv #	91
23) Vinyl Acetate	4.629	43	909536	11.150	ppbv #	98
25) Ethyl Acetate	5.217	43	219574	0.825	ppbv #	81
26) Hexane	5.214	57	283772	2.556	ppbv #	32
27) Carbon Disulfide	4.128	76	15762	0.134	ppbv #	37
34) 2-Butanone	4.800	43	159186	1.075	ppbv	94
36) Benzene	6.369	78	30486	0.141	ppbv #	88
39) 1,2-Dichloropropane	6.652	63	766311	8.735	ppbv #	24
41) Tetrahydrofuran	5.578	42	11257	0.138	ppbv #	25
44) 2,2,4-Trimethylpentane	7.327	57	39010	0.105	ppbv #	1
51) 2-Hexanone	9.558	43	49142	0.284	ppbv #	86
52) Tetrachloroethene	10.610	164	11372	0.146	ppbv #	76
53) Toluene	9.221	91	227784	0.995	ppbv	99
58) Ethyl Benzene	12.339	91	53722	0.178	ppbv	89
59) m/p-Xylene	12.352	91	42704	0.159	ppbv #	30
60) o-Xylene	13.053	91	52885	0.205	ppbv	99
72) 4-Ethyltoluene	15.185	105	18765	0.062	ppbv #	60
73) 1,3,5-Trimethylbenzene	15.346	105	18159	0.068	ppbv #	79
74) 1,2,4-Trimethylbenzene	16.101	105	92194	0.296	ppbv #	69

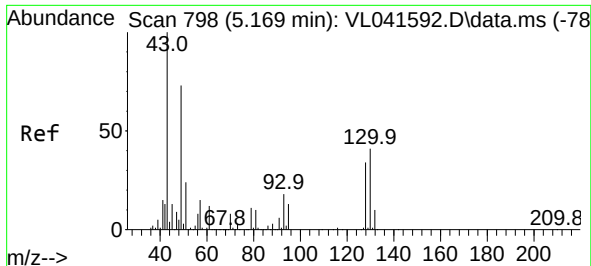
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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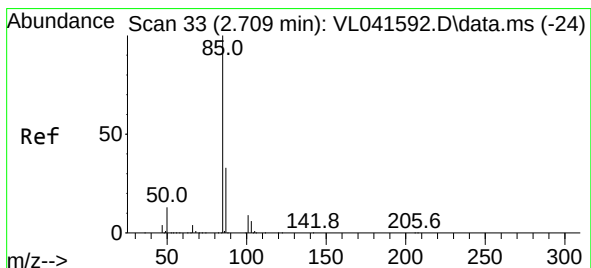
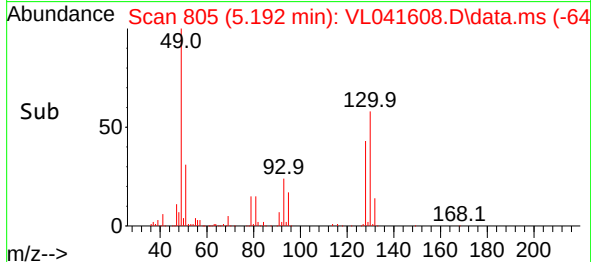
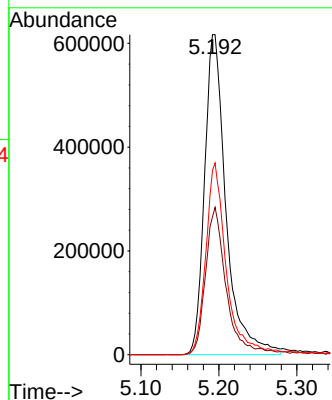
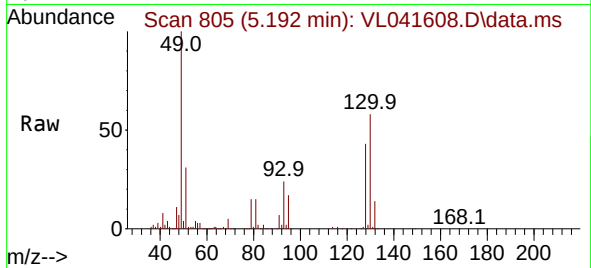




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.023 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

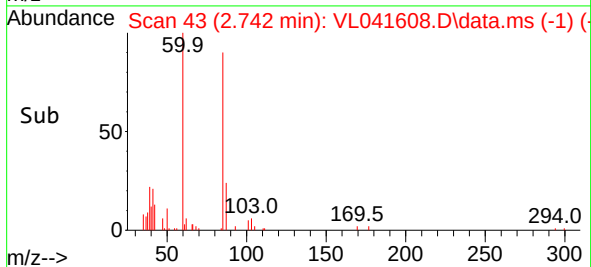
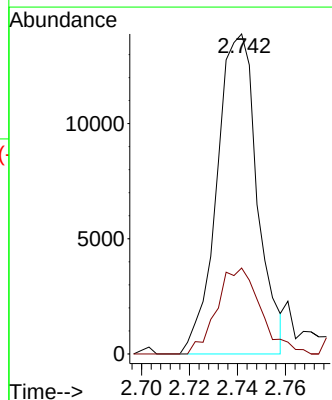
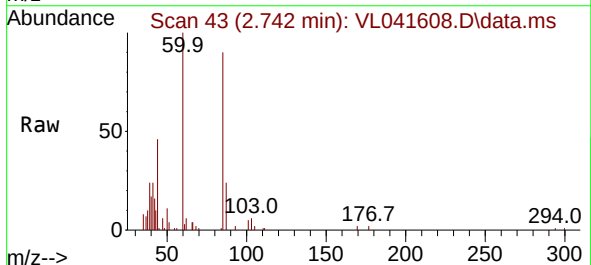
Instrument :
MSVOA_L
ClientSampleId :

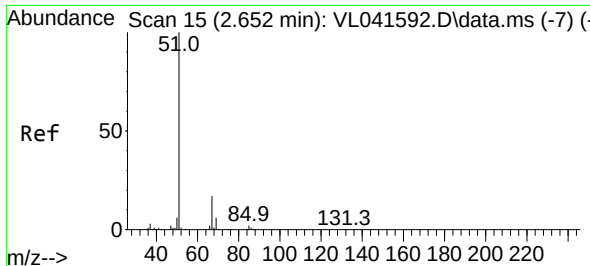
Tgt Ion: 49 Resp: 1181339
Ion Ratio Lower Upper
49 100
128 45.7 23.8 71.5
130 59.4 30.4 91.3



#2
Dichlorodifluoromethane
Concen: 0.095 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.032 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

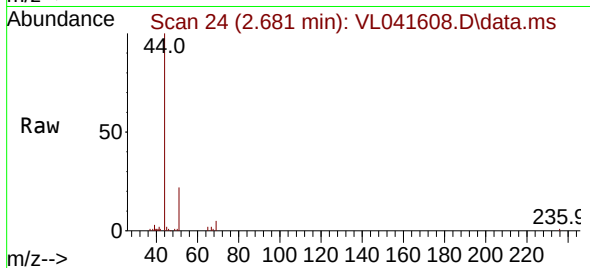
Tgt Ion: 85 Resp: 16237
Ion Ratio Lower Upper
85 100
87 26.9 26.3 39.5



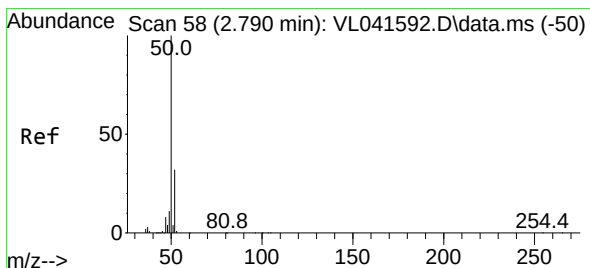
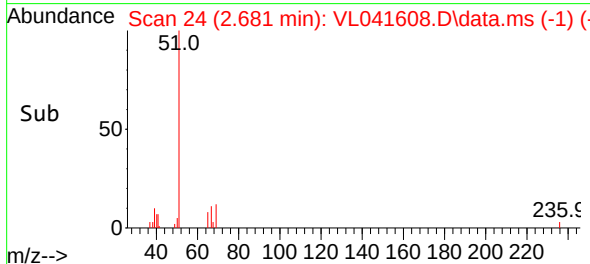
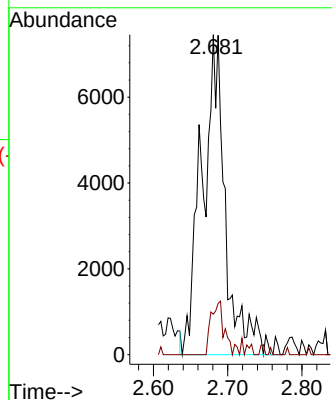


#3
Chlorodifluoromethane
Concen: 0.115 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.029 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Instrument :
MSVOA_L
ClientSampleId :

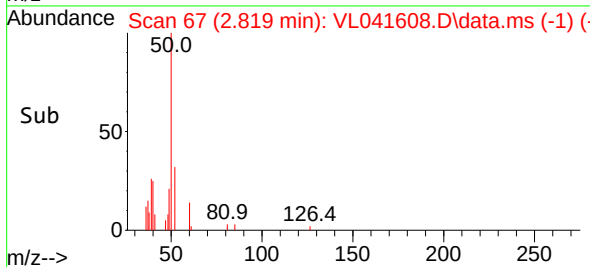
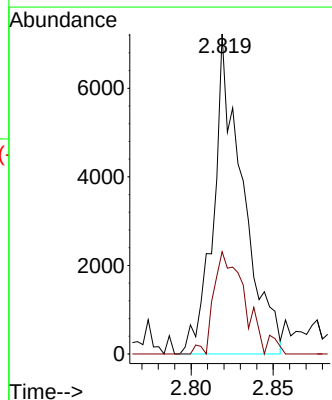
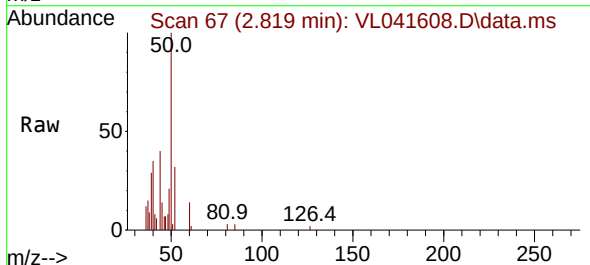


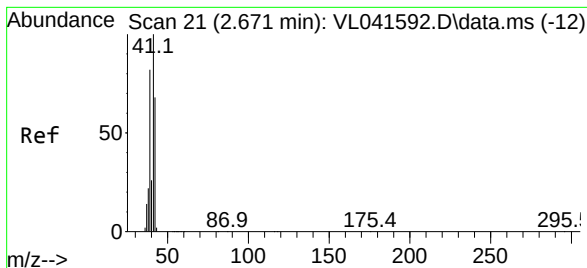
Tgt Ion: 51 Resp: 16443
Ion Ratio Lower Upper
51 100
67 10.0 14.1 21.1#



#4
Chloromethane
Concen: 0.114 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.029 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 50 Resp: 8976
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.2





#9

Propene

Concen: 1.542 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.032 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Instrument :

MSVOA_L

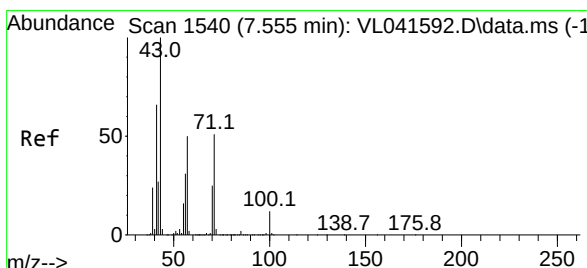
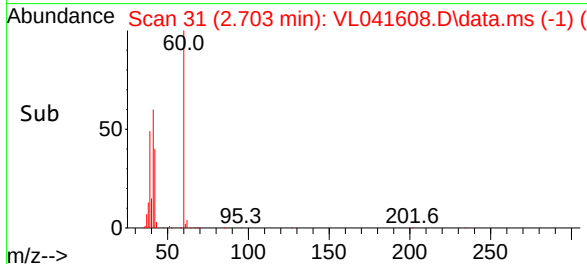
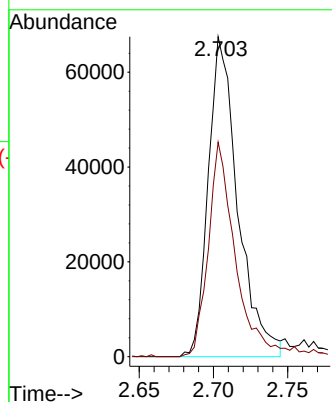
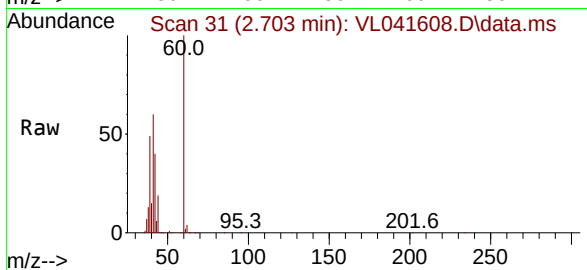
ClientSampleId :

Tgt Ion: 41 Resp: 93206

Ion Ratio Lower Upper

41 100

42 63.4 55.2 82.8



#10

Heptane

Concen: 0.073 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.029 min

Lab File: VL041608.D

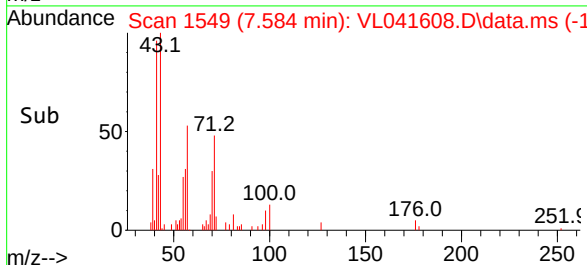
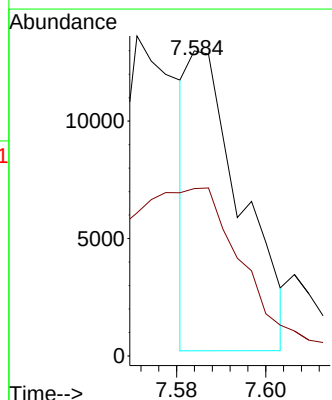
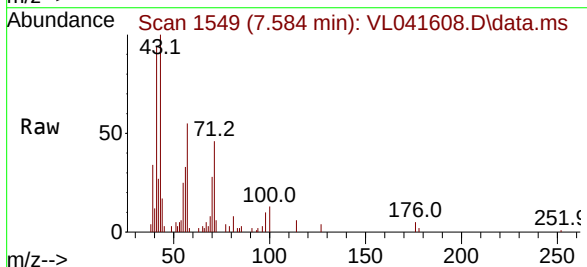
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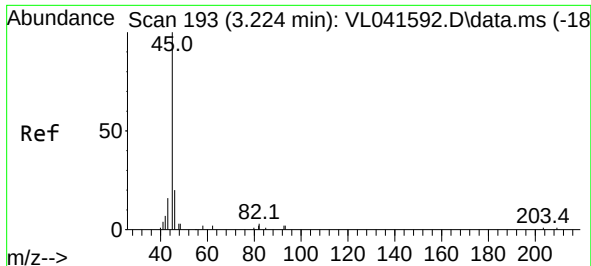
Tgt Ion: 43 Resp: 10388

Ion Ratio Lower Upper

43 100

57 152.1 39.8 59.8#

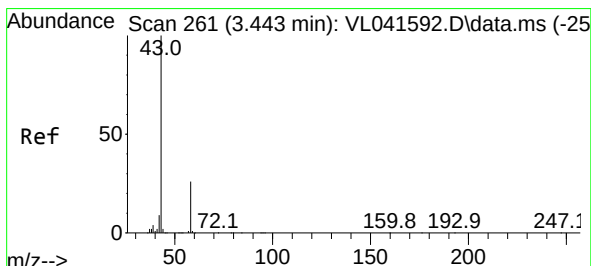
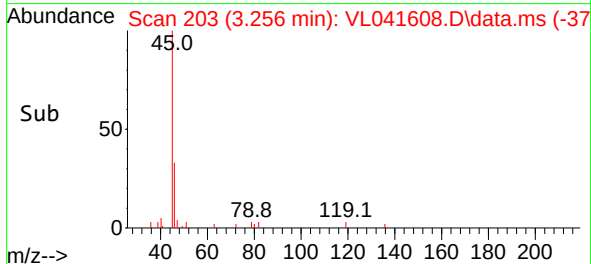
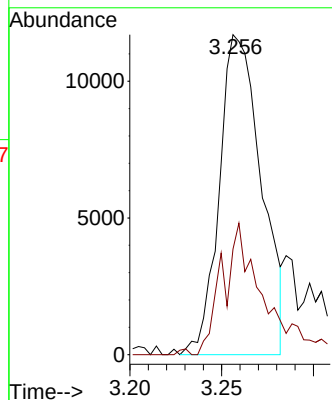
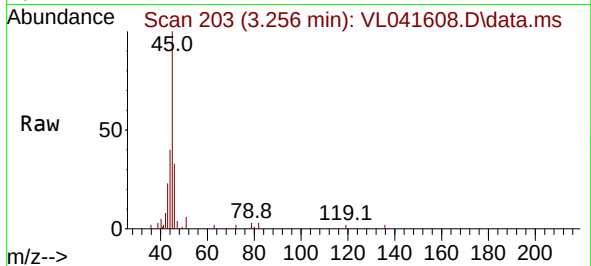




#13
Ethanol
Concen: 4.100 ppbv
RT: 3.256 min Scan# 20
Delta R.T. 0.032 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

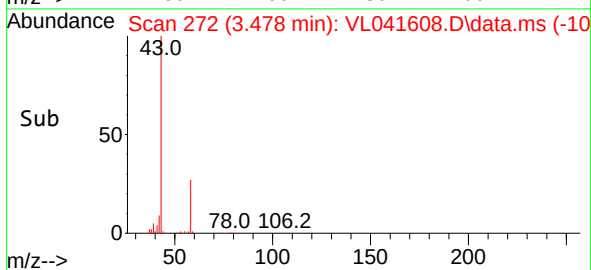
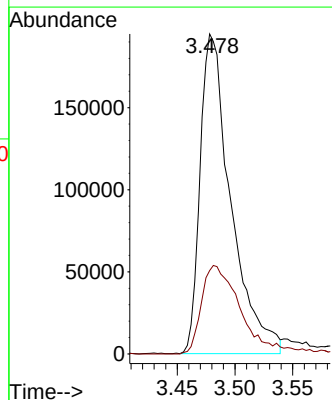
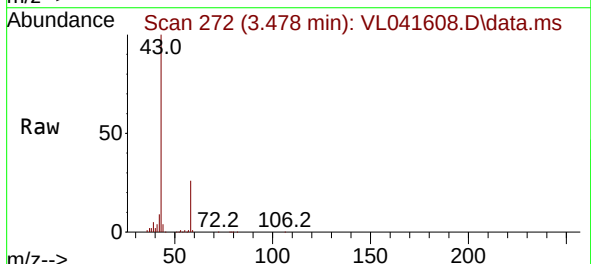
Instrument :
MSVOA_L
ClientSampleId :

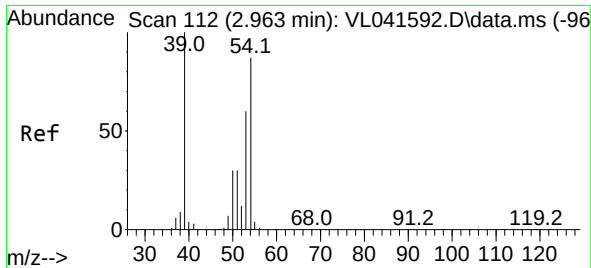
Tgt Ion: 45 Resp: 18630
Ion Ratio Lower Upper
45 100
46 44.9 15.2 60.8



#15
Acetone
Concen: 2.428 ppbv
RT: 3.478 min Scan# 272
Delta R.T. 0.035 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 43 Resp: 360079
Ion Ratio Lower Upper
43 100
58 35.9 21.5 32.3#

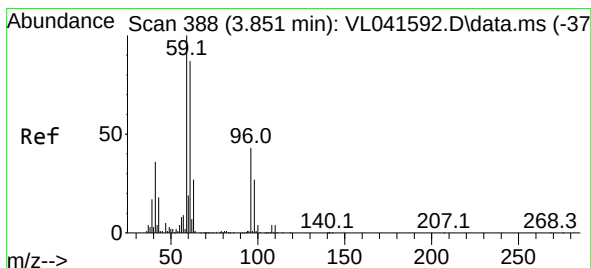
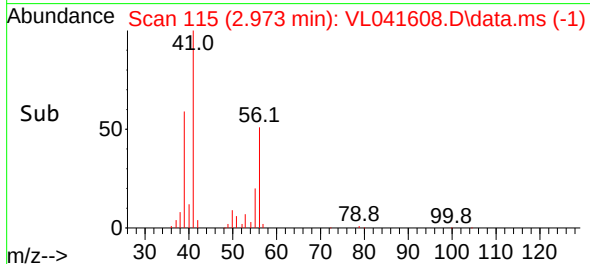
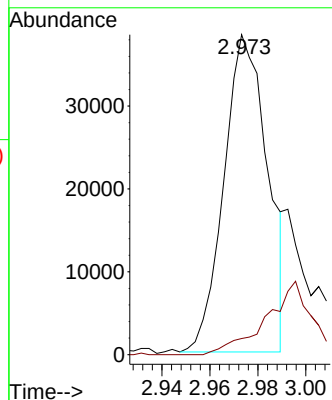
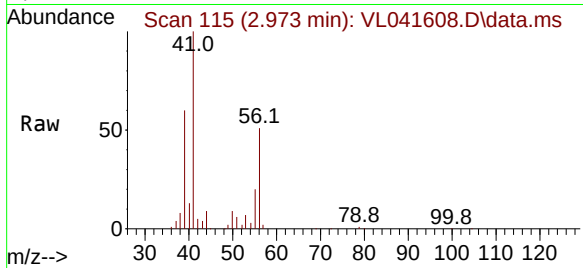




#16
1,3-Butadiene
Concen: 0.671 ppbv
RT: 2.973 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

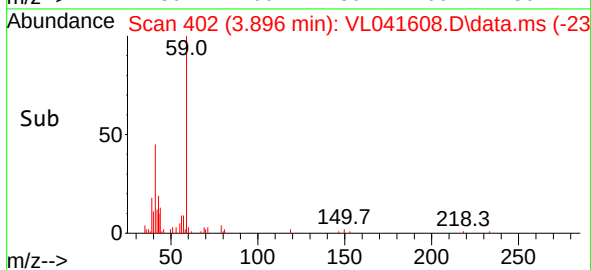
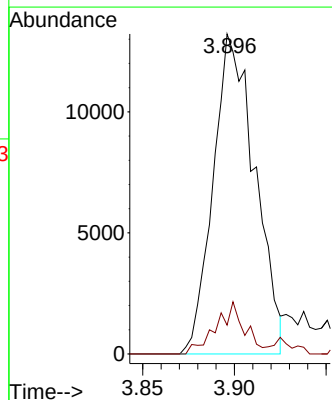
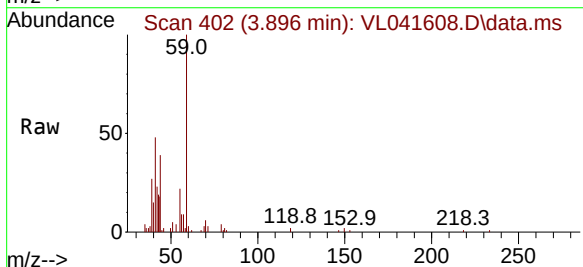
Instrument :
MSVOA_L
ClientSampleId :

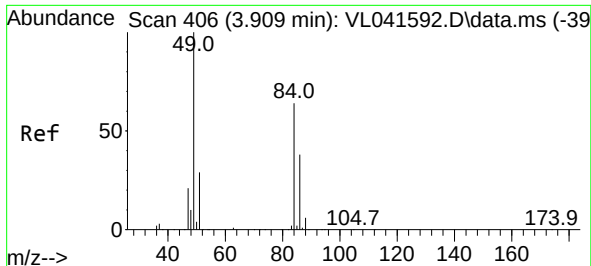
Tgt Ion: 39 Resp: 48438
Ion Ratio Lower Upper
39 100
54 0.0 62.9 94.3#



#17
tert-Butyl alcohol
Concen: 0.160 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.045 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

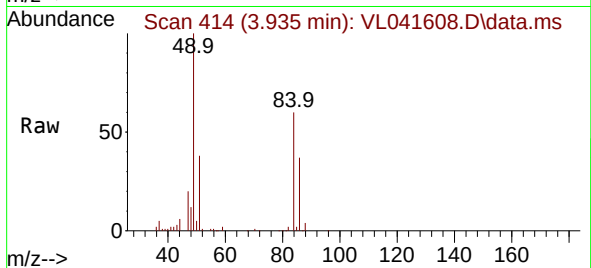
Tgt Ion: 59 Resp: 20930
Ion Ratio Lower Upper
59 100
57 13.5 8.7 13.1#





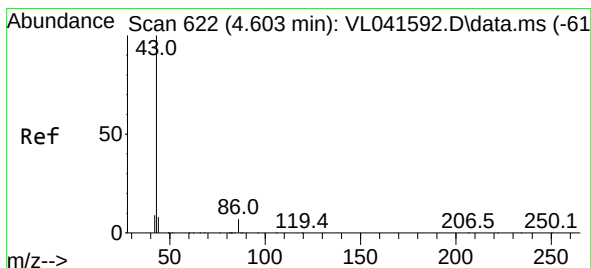
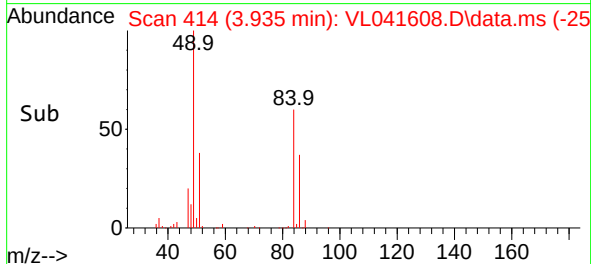
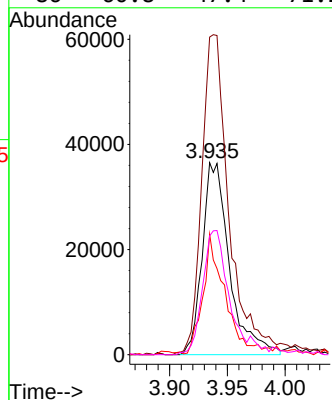
#20
Methylene Chloride
Concen: 1.074 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.026 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 59854

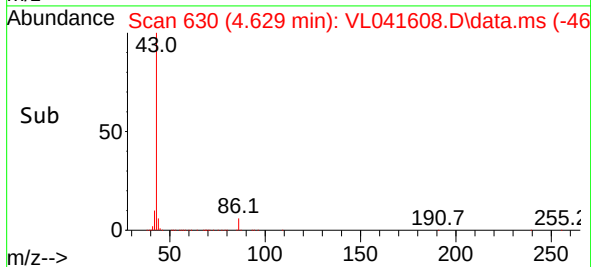
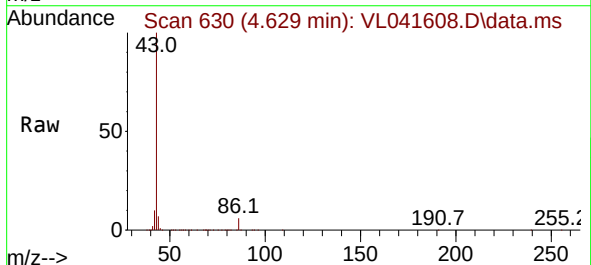
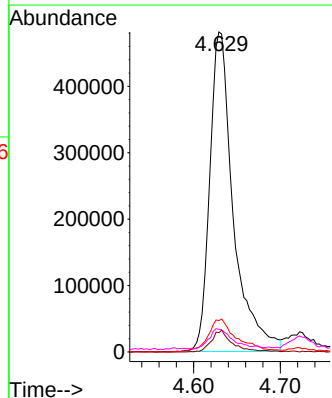
Ion	Ratio	Lower	Upper
84	100		
49	164.3	124.3	186.5
51	61.4	36.3	54.5
86	60.8	47.4	71.2

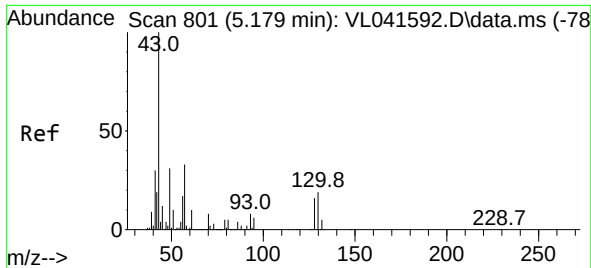


#23
Vinyl Acetate
Concen: 11.150 ppbv
RT: 4.629 min Scan# 630
Delta R.T. 0.026 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 43 Resp: 909536

Ion	Ratio	Lower	Upper
43	100		
86	6.1	4.9	7.3
42	9.7	8.0	12.0
44	6.0	6.1	9.1

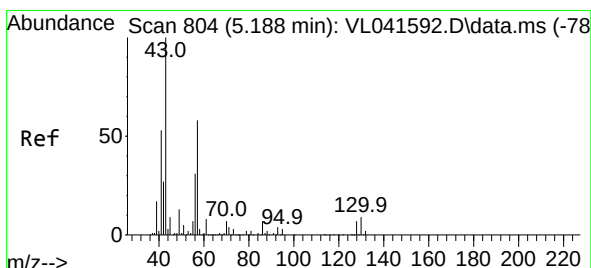
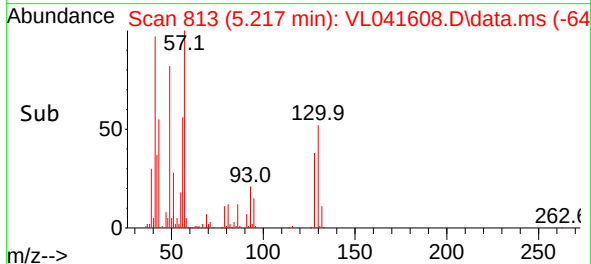
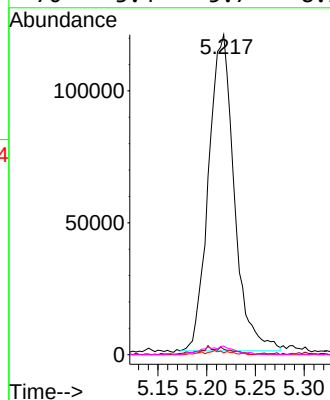
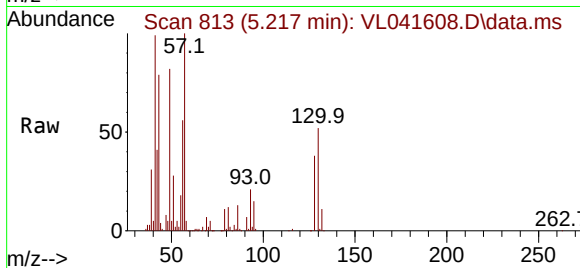




#25
Ethyl Acetate
Concen: 0.825 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.039 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

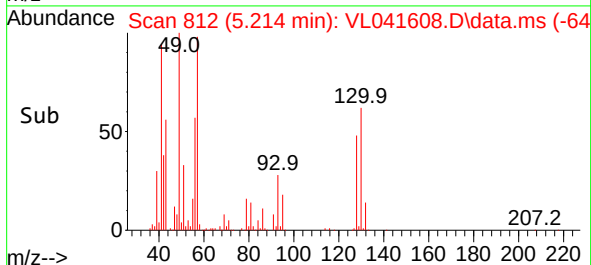
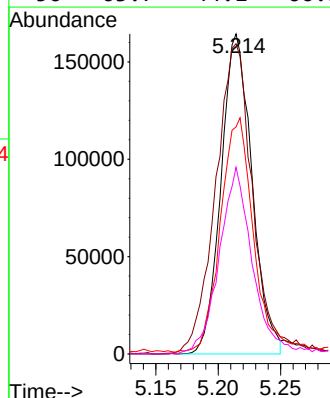
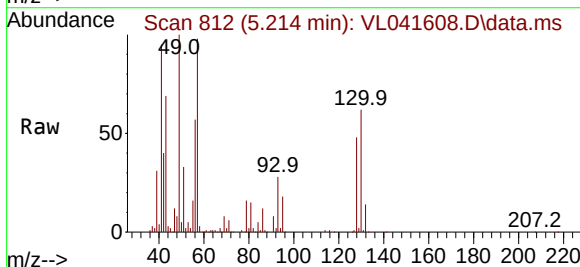
Instrument :
MSVOA_L
ClientSampleId :

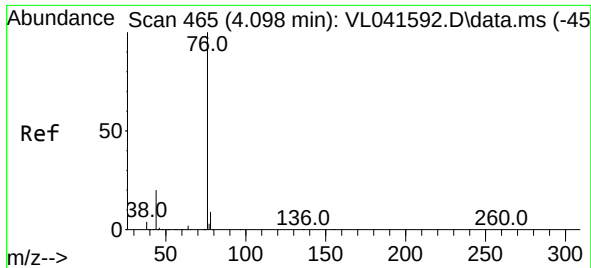
Tgt Ion:	43	Resp:	219574
Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.2	12.2#
61	1.3	8.0	12.0#
70	3.4	5.7	8.5#



#26
Hexane
Concen: 2.556 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.026 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion:	57	Resp:	283772
Ion	Ratio	Lower	Upper
57	100		
41	118.2	75.7	113.5#
43	79.1	198.5	297.7#
56	63.7	44.1	66.1

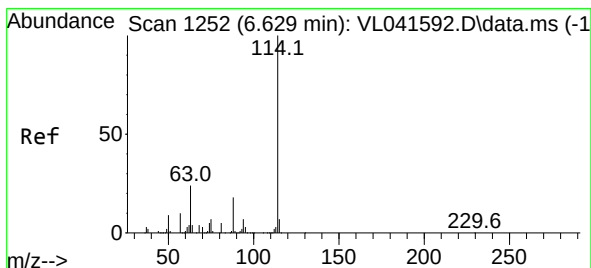
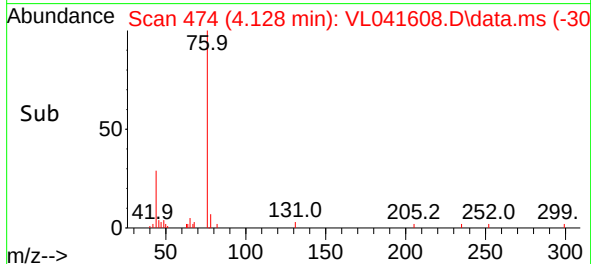
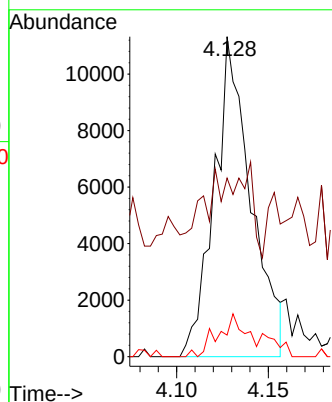
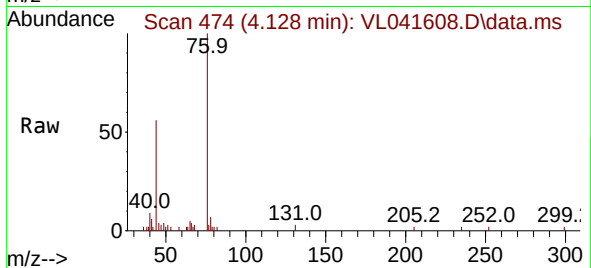




#27
Carbon Disulfide
Concen: 0.134 ppbv
RT: 4.128 min Scan# 41
Delta R.T. 0.029 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

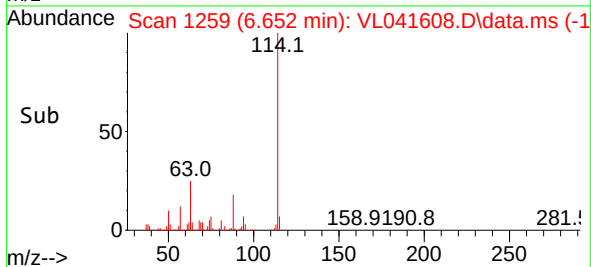
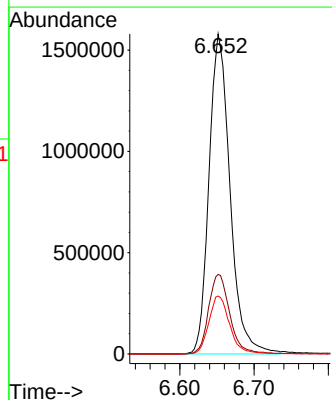
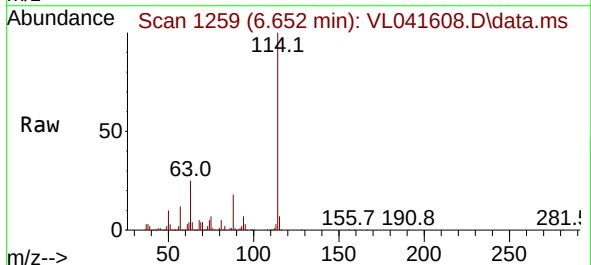
Instrument :
MSVOA_L
ClientSampleId :

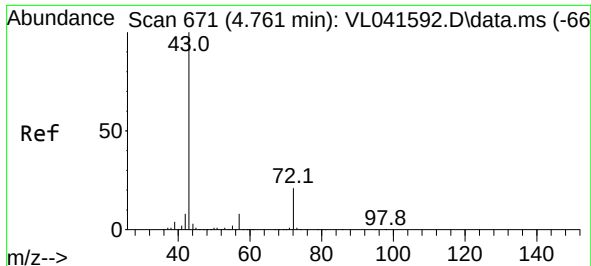
Tgt Ion: 76 Resp: 15762
Ion Ratio Lower Upper
76 100
44 60.1 15.8 23.8#
78 13.6 7.5 11.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.023 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 114 Resp: 3105157
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.2
88 18.1 14.2 21.4

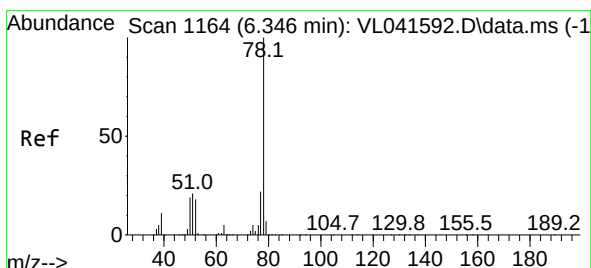
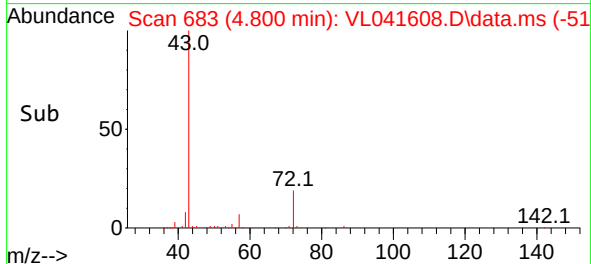
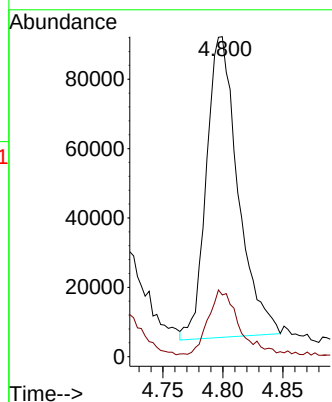
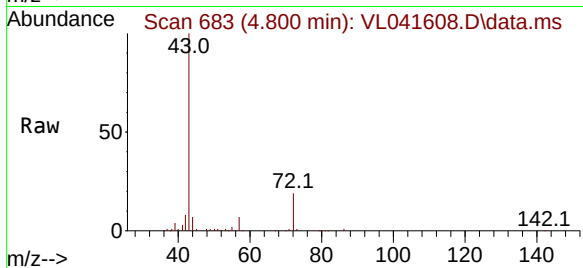




#34
2-Butanone
Concen: 1.075 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.039 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

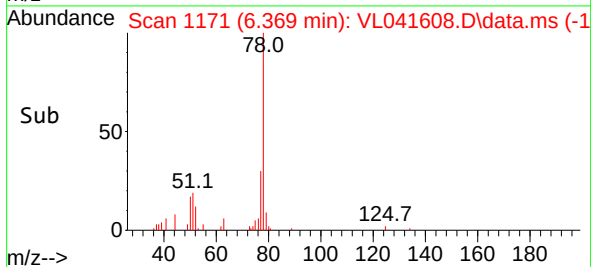
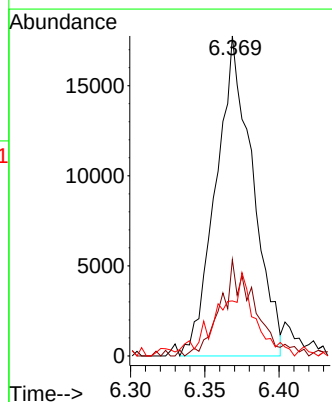
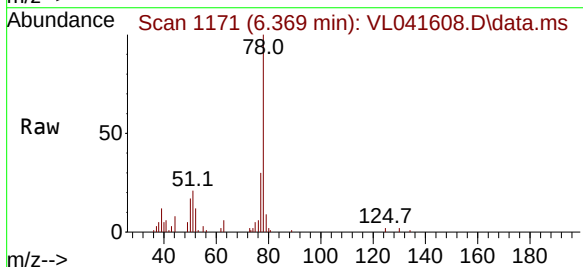
Instrument :
MSVOA_L
ClientSampleId :

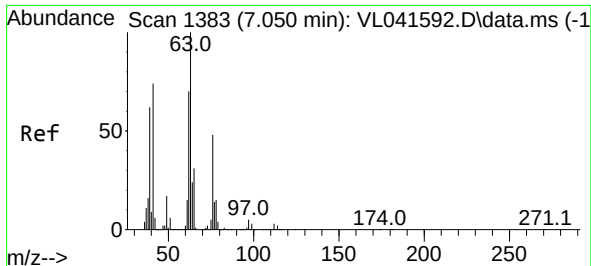
Tgt Ion: 43 Resp: 159186
Ion Ratio Lower Upper
43 100
72 23.7 16.8 25.2



#36
Benzene
Concen: 0.141 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.023 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 78 Resp: 30486
Ion Ratio Lower Upper
78 100
77 28.3 17.8 26.6#
50 13.7 15.4 23.0#





#39

1,2-Dichloropropane

Concen: 8.735 ppbv

RT: 6.652 min Scan# 1

Delta R.T. -0.399 min

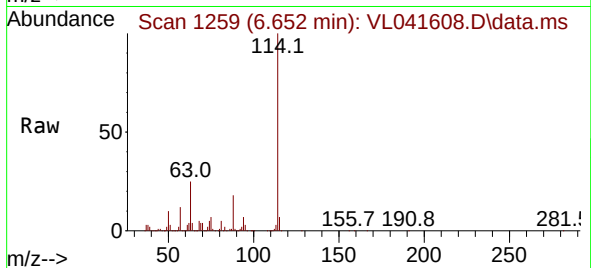
Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Instrument :

MSVOA_L

ClientSampleId :



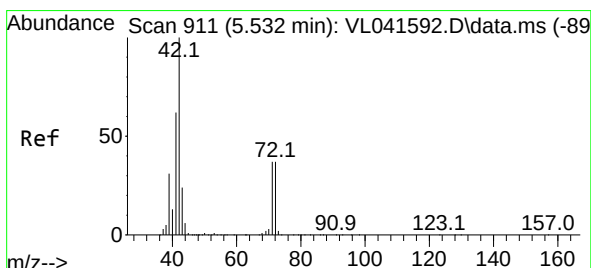
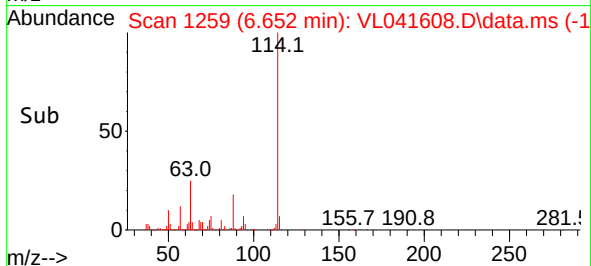
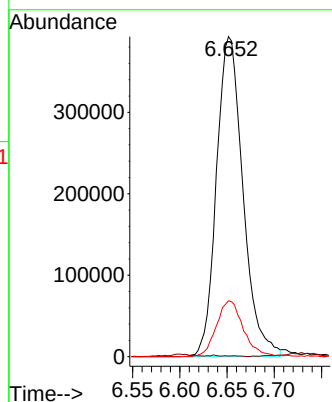
Tgt Ion: 63 Resp: 766311

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.5 56.2 84.2#



#41

Tetrahydrofuran

Concen: 0.138 ppbv

RT: 5.578 min Scan# 925

Delta R.T. 0.045 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

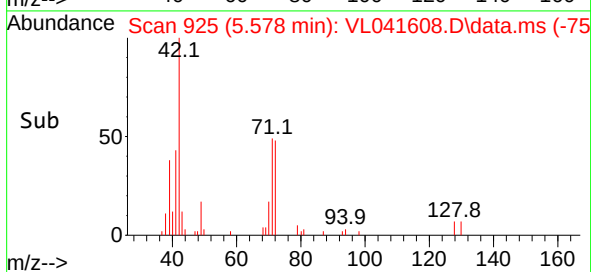
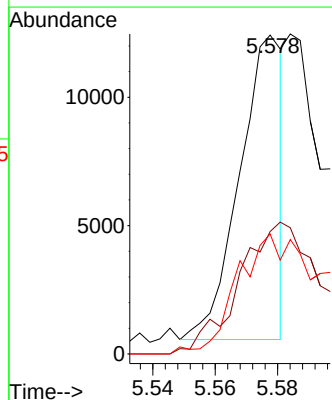
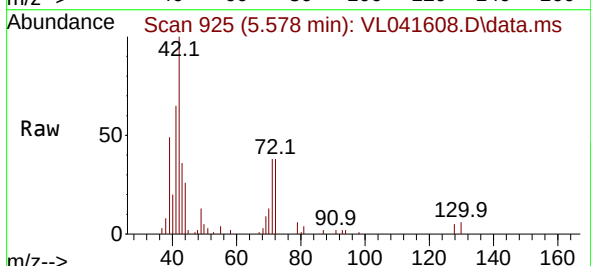
Tgt Ion: 42 Resp: 11257

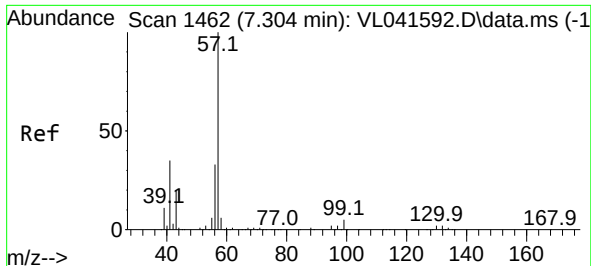
Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

71 88.7 29.6 44.4#

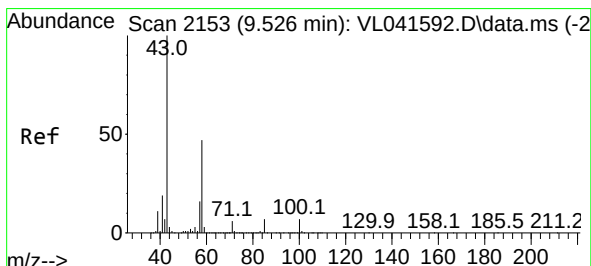
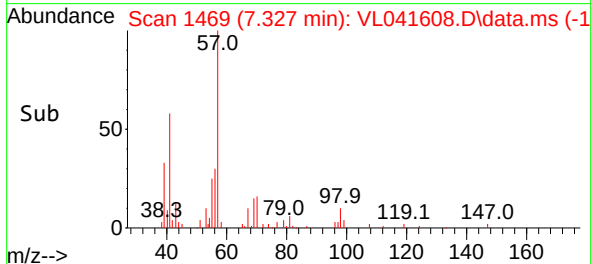
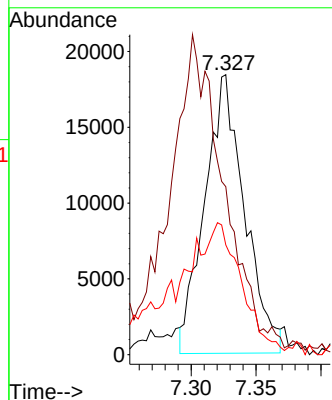
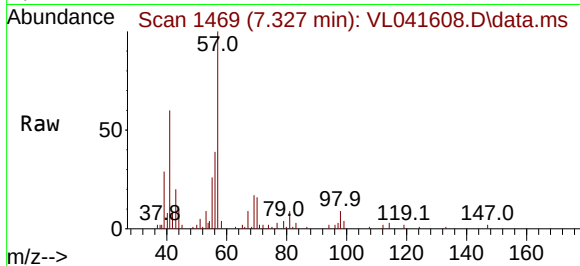




#44
 2,2,4-Trimethylpentane
 Concen: 0.105 ppbv
 RT: 7.327 min Scan# 1469
 Delta R.T. 0.023 min
 Lab File: VL041608.D
 Acq: 18 Sep 2024 15:43

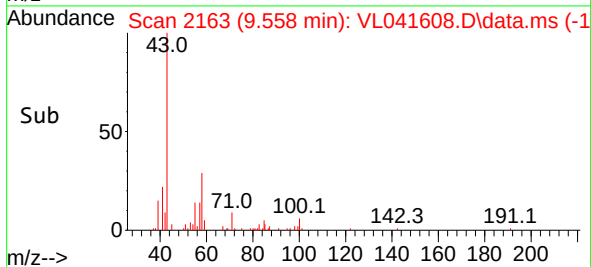
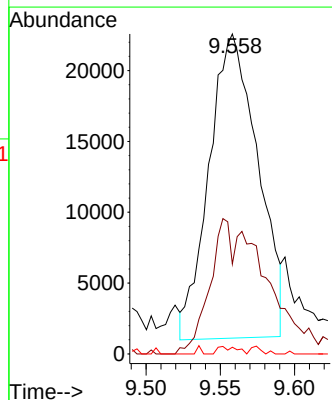
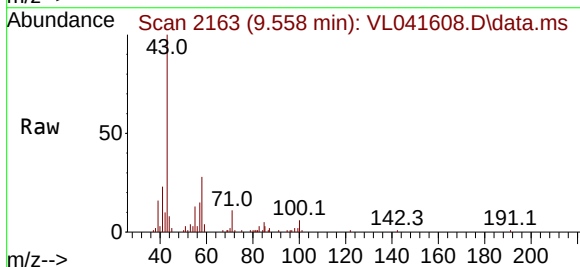
Instrument :
 MSVOA_L
 ClientSampleId :

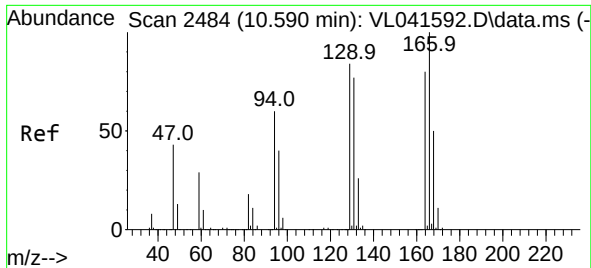
Tgt Ion:	57	Resp:	39010
Ion	Ratio	Lower	Upper
57	100		
41	164.0	27.0	40.6#
56	86.8	25.5	38.3#



#51
 2-Hexanone
 Concen: 0.284 ppbv
 RT: 9.558 min Scan# 2163
 Delta R.T. 0.032 min
 Lab File: VL041608.D
 Acq: 18 Sep 2024 15:43

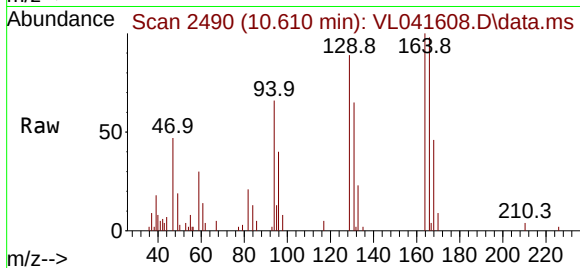
Tgt Ion:	43	Resp:	49142
Ion	Ratio	Lower	Upper
43	100		
58	55.7	37.2	55.8
98	1.8	0.5	0.7#



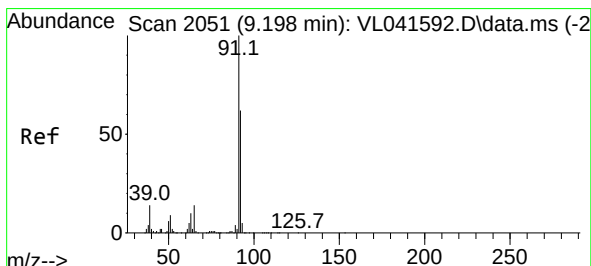
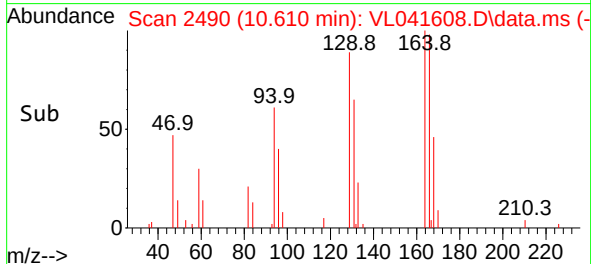
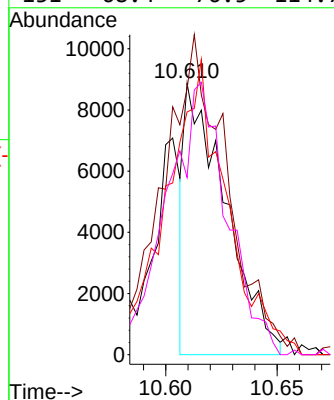


#52
Tetrachloroethene
Concen: 0.146 ppbv
RT: 10.610 min Scan# 24
Delta R.T. 0.019 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Instrument :
MSVOA_L
ClientSampleId :

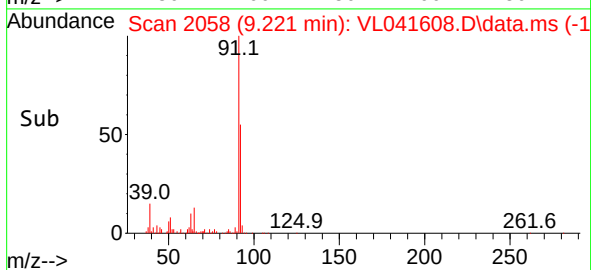
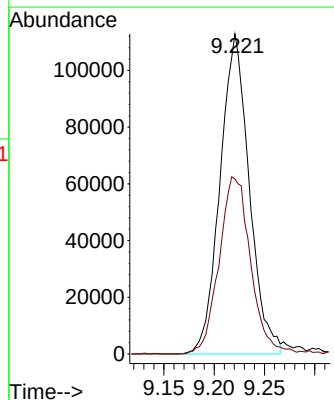
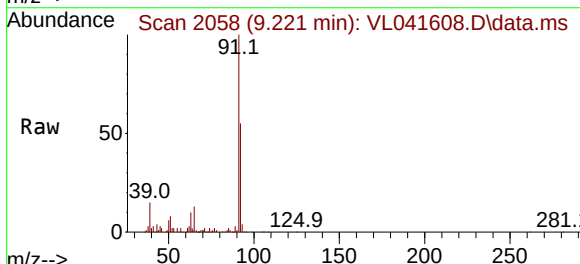


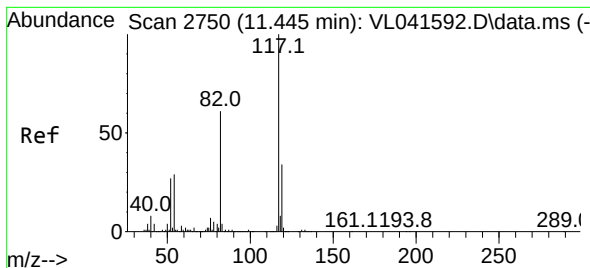
Tgt Ion:164 Resp: 11372
Ion Ratio Lower Upper
164 100
166 95.4 99.4 149.2#
129 84.5 83.5 125.3
131 68.4 76.5 114.7#



#53
Toluene
Concen: 0.995 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.023 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 91 Resp: 227784
Ion Ratio Lower Upper
91 100
92 60.1 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Instrument :

MSVOA_L

ClientSampleId :

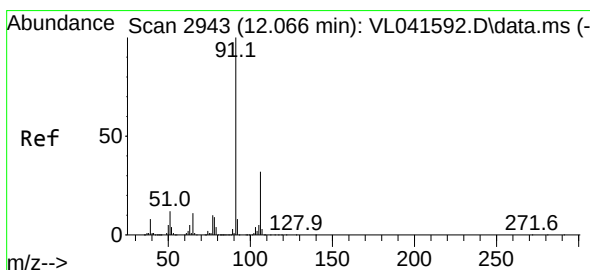
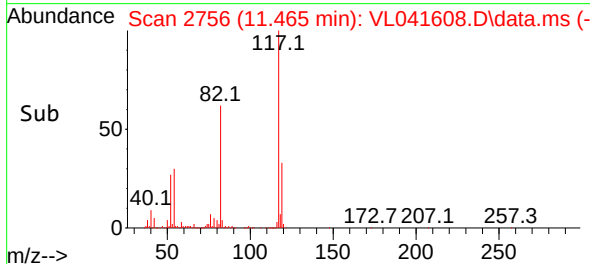
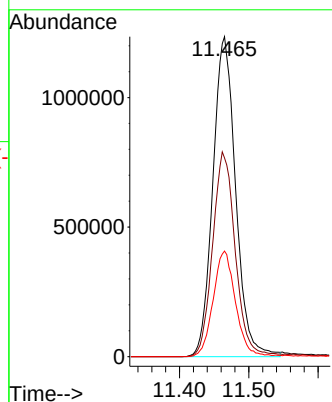
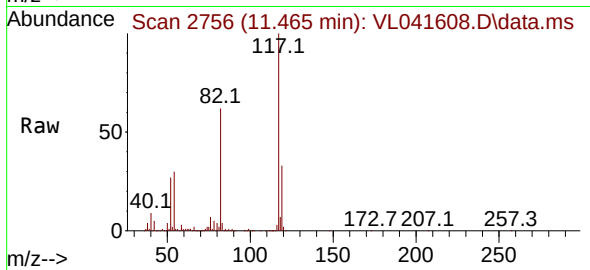
Tgt Ion:117 Resp: 2822973

Ion Ratio Lower Upper

117 100

82 65.0 49.4 74.2

119 33.1 24.4 36.6



#58

Ethyl Benzene

Concen: 0.178 ppbv

RT: 12.339 min Scan# 3028

Delta R.T. 0.273 min

Lab File: VL041608.D

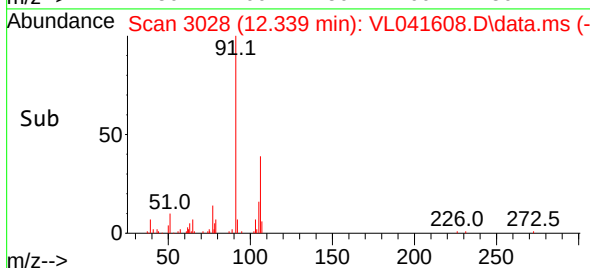
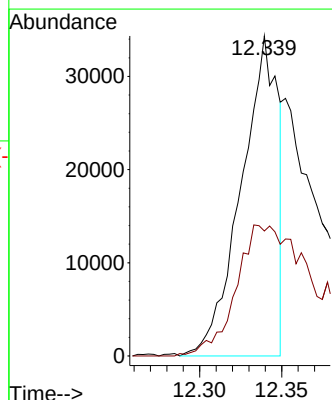
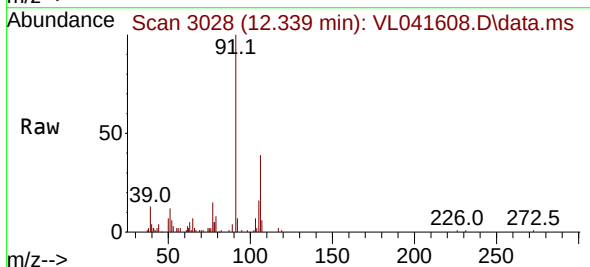
Acq: 18 Sep 2024 15:43

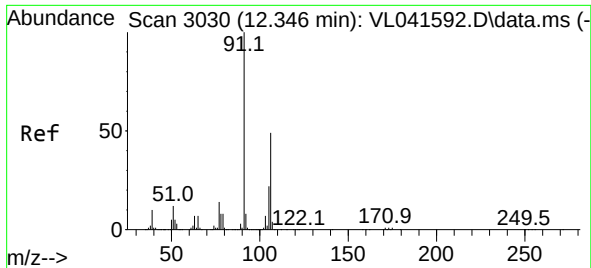
Tgt Ion: 91 Resp: 53722

Ion Ratio Lower Upper

91 100

106 38.3 25.8 38.6





#59

m/p-Xylene

Concen: 0.159 ppbv

RT: 12.352 min Scan# 3030

Delta R.T. 0.007 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Instrument :

MSVOA_L

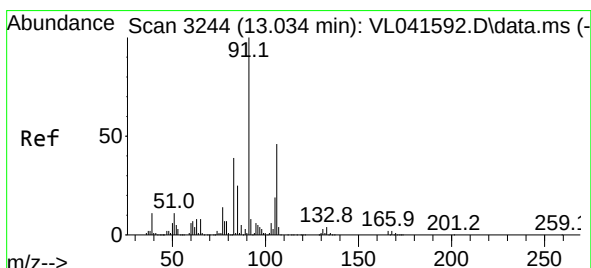
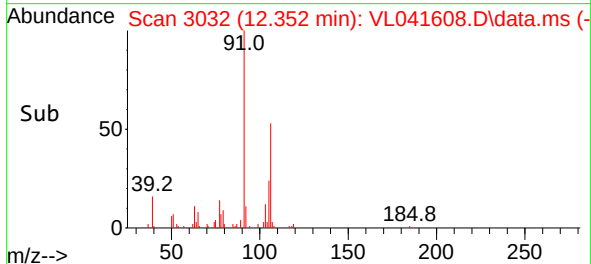
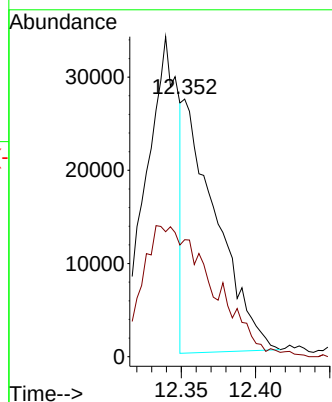
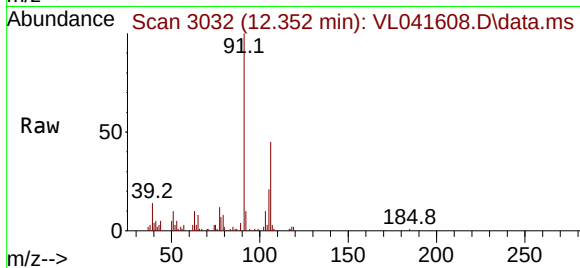
ClientSampleId :

Tgt Ion: 91 Resp: 42704

Ion Ratio Lower Upper

91 100

106 0.0 36.8 55.2#



#60

o-Xylene

Concen: 0.205 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. 0.019 min

Lab File: VL041608.D

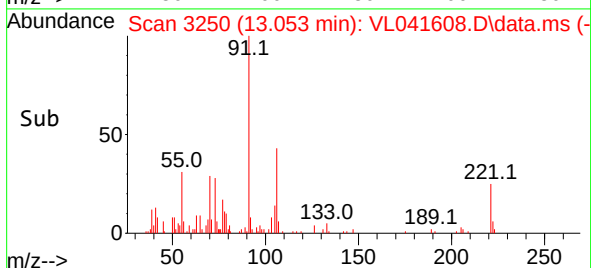
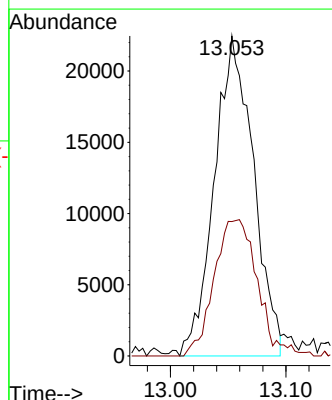
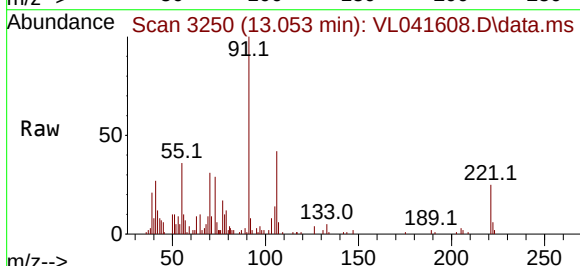
Acq: 18 Sep 2024 15:43

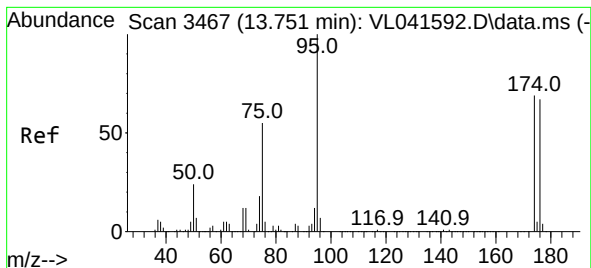
Tgt Ion: 91 Resp: 52885

Ion Ratio Lower Upper

91 100

106 47.2 23.1 69.3

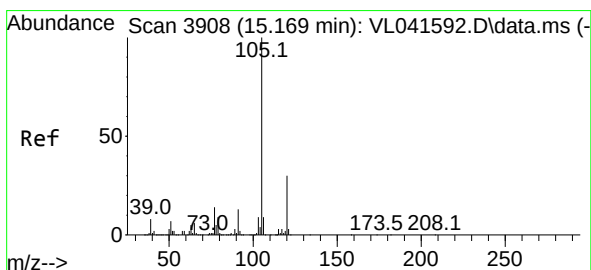
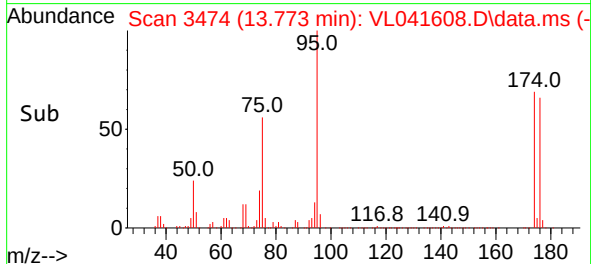
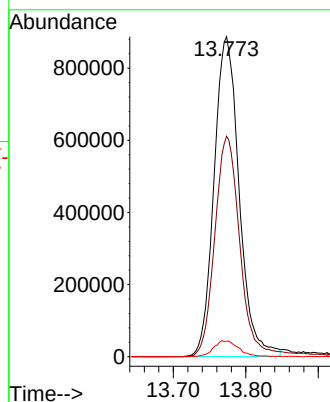
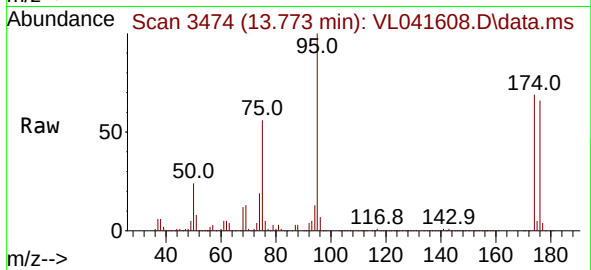




#68
1-Bromo-4-Fluorobenzene
Concen: 10.268 ppbv
RT: 13.773 min Scan# 3467
Delta R.T. 0.023 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

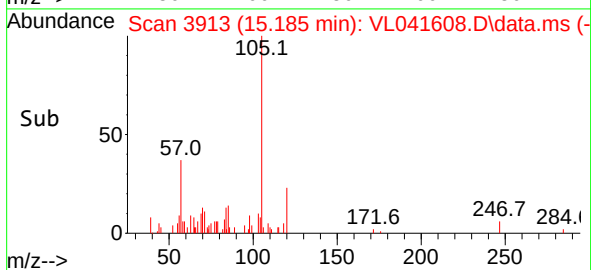
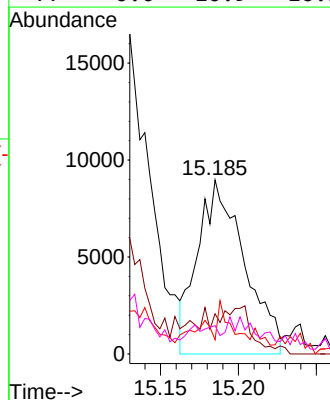
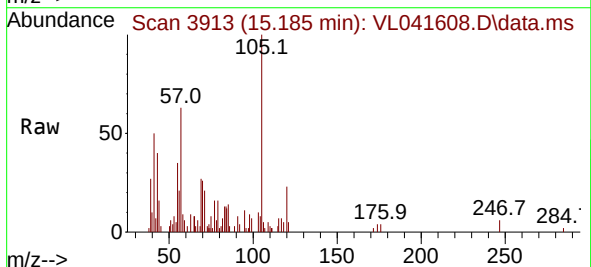
Instrument :
MSVOA_L
ClientSampleId :

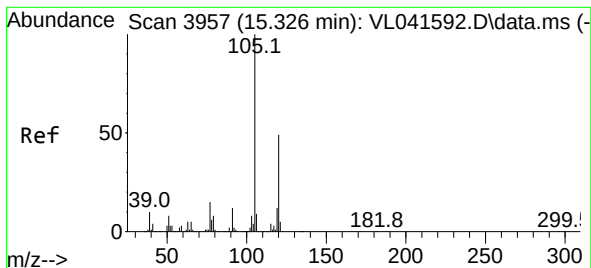
Tgt Ion: 95 Resp: 2133729
Ion Ratio Lower Upper
95 100
174 70.6 55.8 83.8
175 5.0 4.1 6.1



#72
4-Ethyltoluene
Concen: 0.062 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. 0.016 min
Lab File: VL041608.D
Acq: 18 Sep 2024 15:43

Tgt Ion: 105 Resp: 18765
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 9.5 10.2 15.2#
77 0.0 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.068 ppbv

RT: 15.346 min Scan# 3957

Delta R.T. 0.019 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Instrument :

MSVOA_L

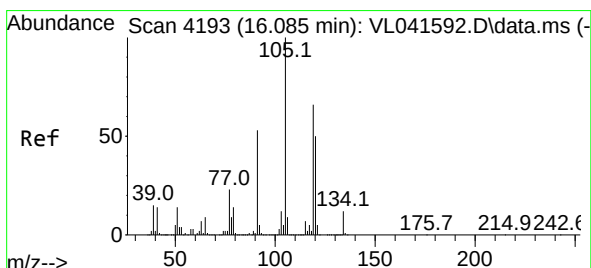
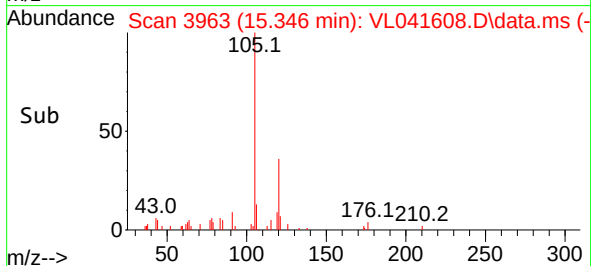
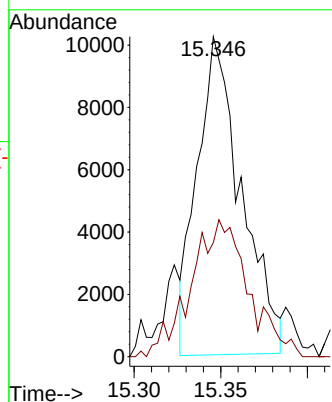
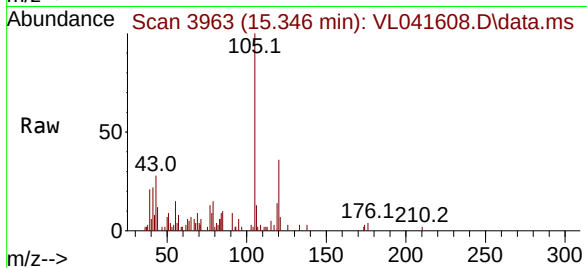
ClientSampleId :

Tgt Ion:105 Resp: 18159

Ion Ratio Lower Upper

105 100

120 34.6 39.4 59.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.296 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.016 min

Lab File: VL041608.D

Acq: 18 Sep 2024 15:43

Tgt Ion:105 Resp: 92194

Ion Ratio Lower Upper

105 100

120 44.8 39.9 59.9

91 10.1 42.6 63.8#

77 16.1 18.2 27.2#

