

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041617.D
 Acq On : 18 Sep 2024 22:03
 Operator : SY/MD
 Sample : P4028-03DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 04:22:59 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)

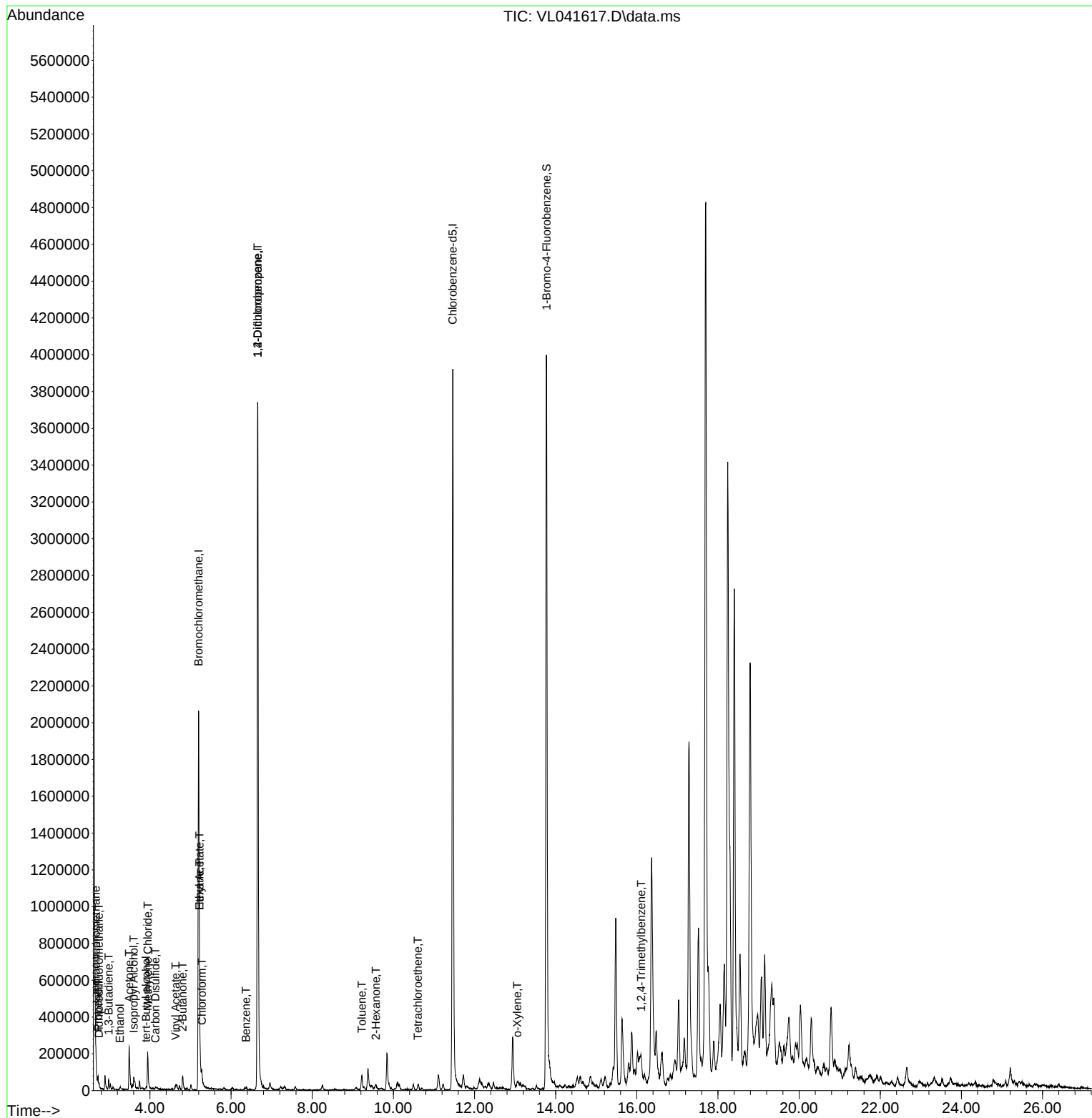
Internal Standards						
1) Bromochloromethane	5.198	49	1033061	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.655	114	2802213	10.000	ppbv	0.03
55) Chlorobenzene-d5	11.465	117	2546741	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1937633	10.335	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.745	85	13553	0.091	ppbv	95
3) Chlorodifluoromethane	2.668	51	9979	0.080	ppbv #	86
9) Propene	2.722	41	13888	0.263	ppbv	95
13) Ethanol	3.259	45	3767	0.948	ppbv #	1
15) Acetone	3.488	43	253249	1.953	ppbv	92
16) 1,3-Butadiene	2.983	39	12790	0.203	ppbv #	10
17) tert-Butyl alcohol	3.909	59	7437	0.065	ppbv #	80
19) Isopropyl Alcohol	3.600	45	54069	0.814	ppbv #	81
20) Methylene Chloride	3.947	84	60168	1.235	ppbv	98
23) Vinyl Acetate	4.635	43	30849	0.432	ppbv #	88
25) Ethyl Acetate	5.221	43	42439	0.182	ppbv #	75
26) Hexane	5.221	57	53601	0.552	ppbv #	30
27) Carbon Disulfide	4.137	76	11346	0.110	ppbv #	69
29) Chloroform	5.278	83	31848	0.200	ppbv	97
34) 2-Butanone	4.806	43	84403	0.632	ppbv	93
36) Benzene	6.368	78	6031	0.031	ppbv #	89
39) 1,2-Dichloropropane	6.655	63	705515	8.911	ppbv #	24
51) 2-Hexanone	9.568	43	18011	0.115	ppbv #	89
52) Tetrachloroethene	10.606	164	2981	0.042	ppbv	86
53) Toluene	9.224	91	51653	0.250	ppbv	98
60) o-Xylene	13.053	91	12791	0.055	ppbv #	60
74) 1,2,4-Trimethylbenzene	16.108	105	62400	0.222	ppbv #	70

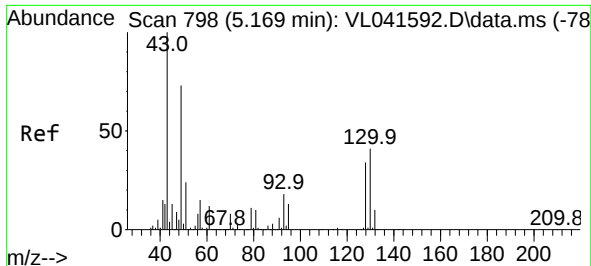
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
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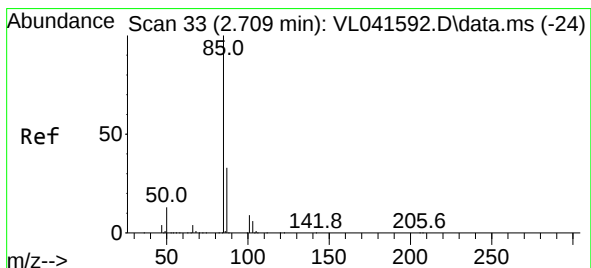
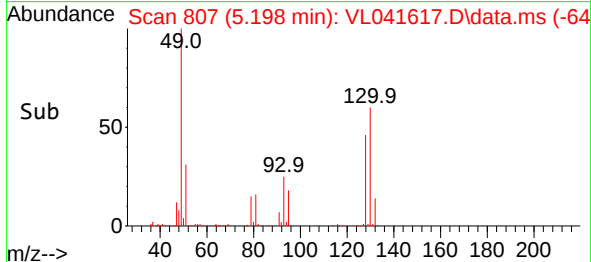
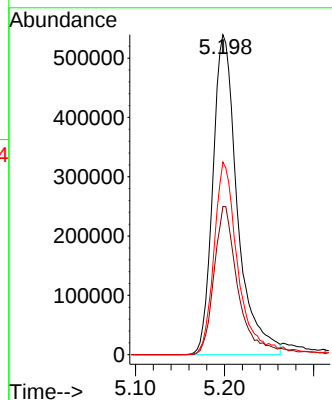
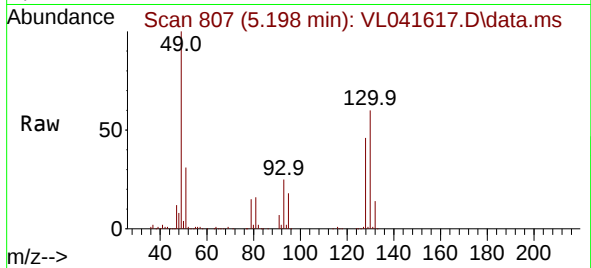




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.029 min
 Lab File: VL041617.D
 Acq: 18 Sep 2024 22:03

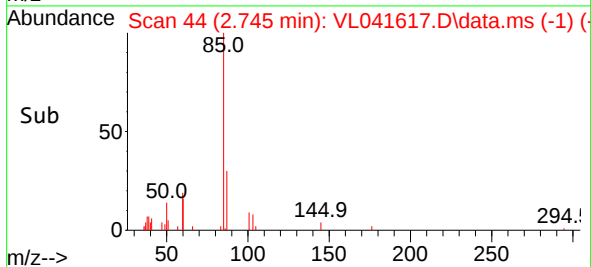
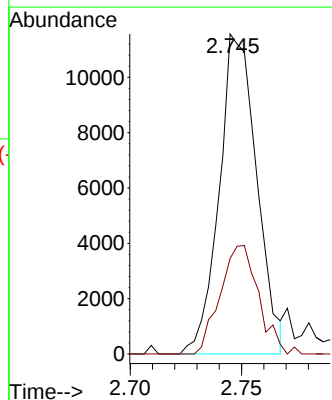
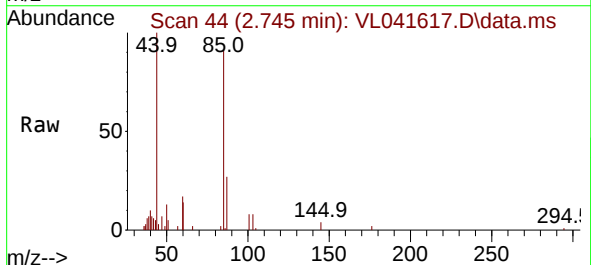
Instrument :
 MSVOA_L
 ClientSampleId :

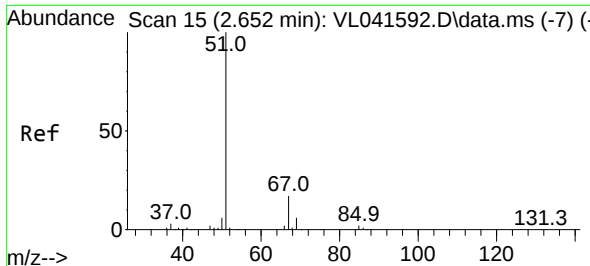
Tgt Ion: 49 Resp: 1033061
 Ion Ratio Lower Upper
 49 100
 128 46.8 23.8 71.5
 130 60.6 30.4 91.3



#2
 Dichlorodifluoromethane
 Concen: 0.091 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. 0.035 min
 Lab File: VL041617.D
 Acq: 18 Sep 2024 22:03

Tgt Ion: 85 Resp: 13553
 Ion Ratio Lower Upper
 85 100
 87 29.8 26.3 39.5

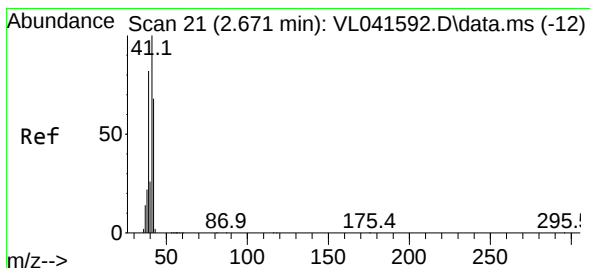
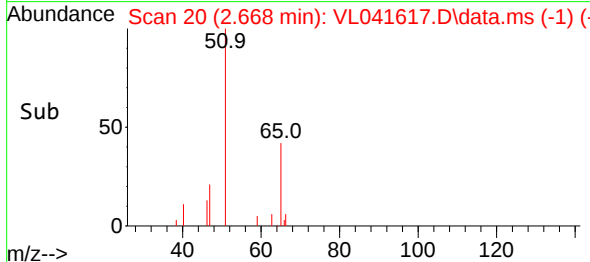
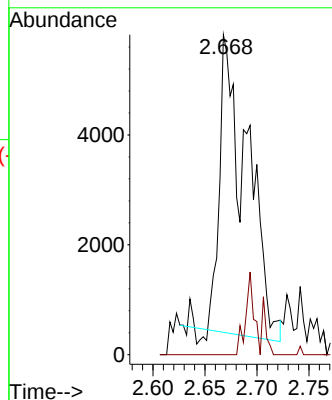
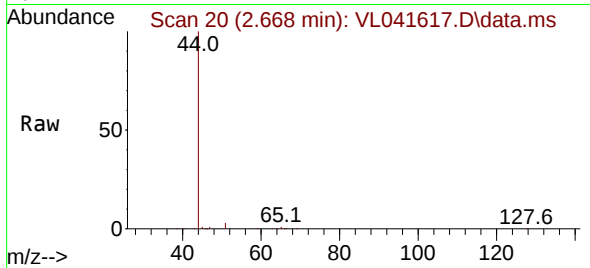




#3
Chlorodifluoromethane
Concen: 0.080 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

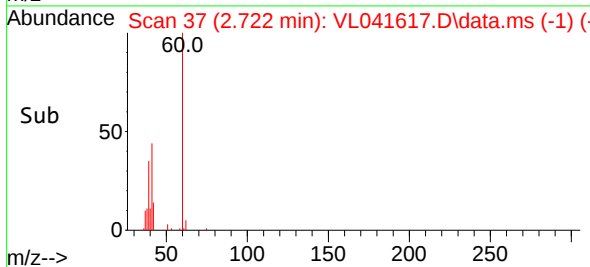
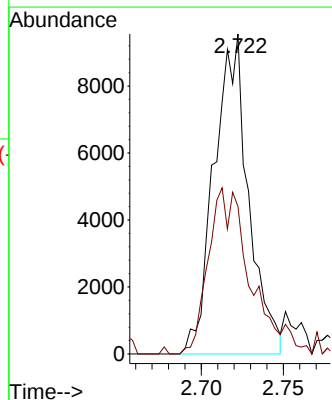
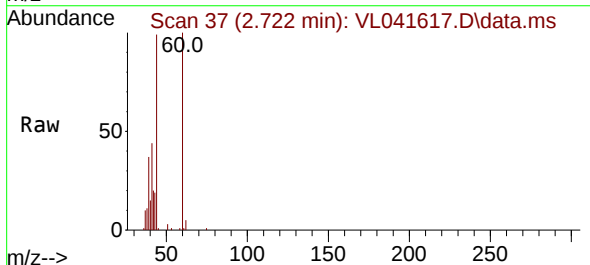
Instrument :
MSVOA_L
ClientSampleId :

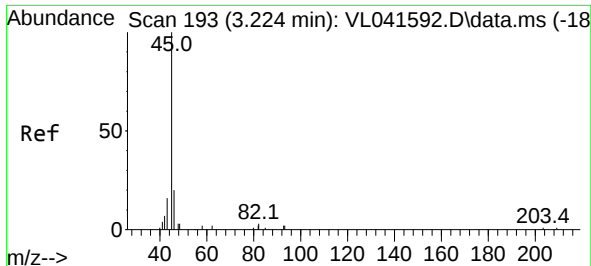
Tgt Ion: 51 Resp: 9979
Ion Ratio Lower Upper
51 100
67 11.3 14.1 21.1#



#9
Propene
Concen: 0.263 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.051 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 41 Resp: 13888
Ion Ratio Lower Upper
41 100
42 64.9 55.2 82.8

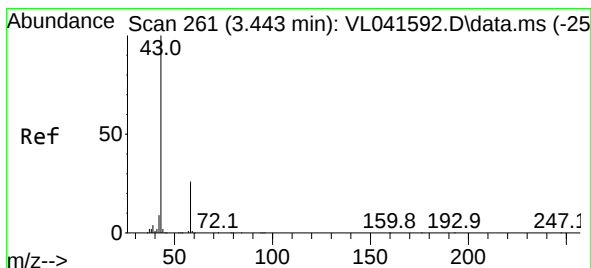
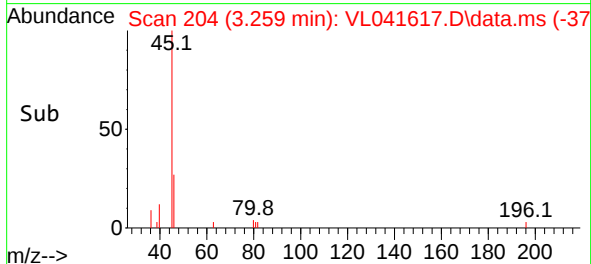
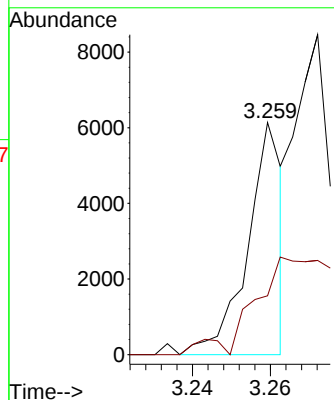
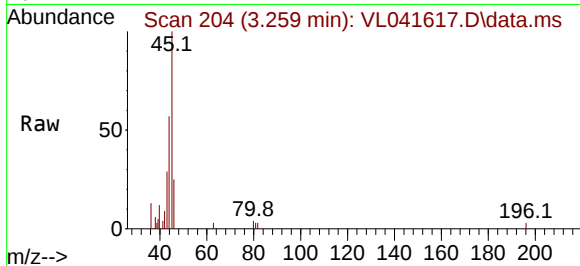




#13
Ethanol
Concen: 0.948 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.035 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

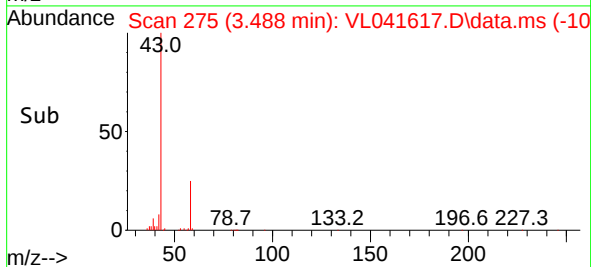
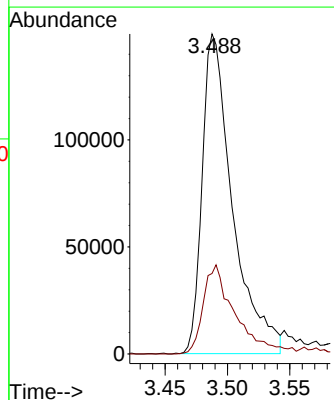
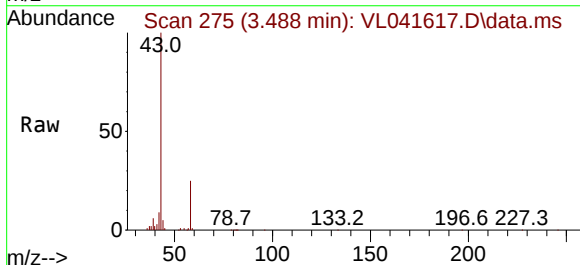
Instrument :
MSVOA_L
ClientSampleId :

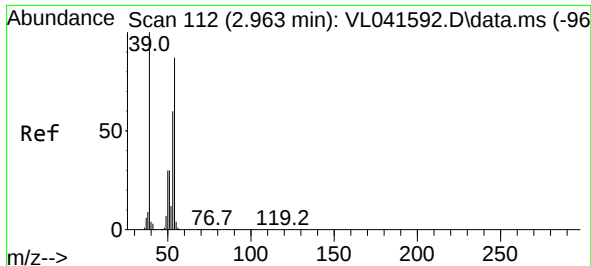
Tgt Ion: 45 Resp: 3767
Ion Ratio Lower Upper
45 100
46 162.5 15.2 60.8#



#15
Acetone
Concen: 1.953 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.045 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 43 Resp: 253249
Ion Ratio Lower Upper
43 100
58 31.2 21.5 32.3





#16

1,3-Butadiene

Concen: 0.203 ppbv

RT: 2.983 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

Instrument :

MSVOA_L

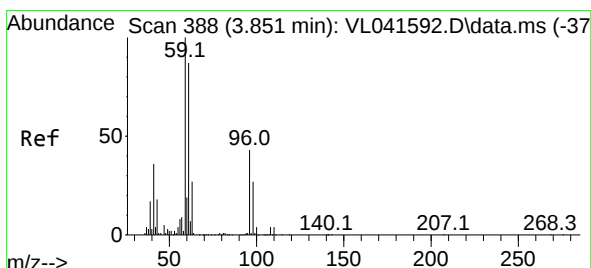
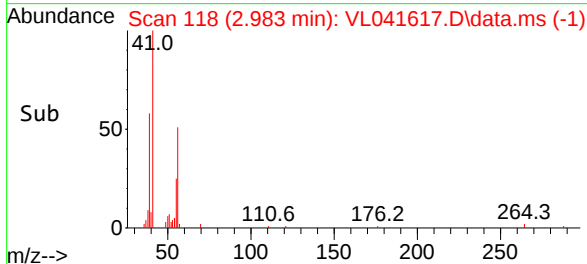
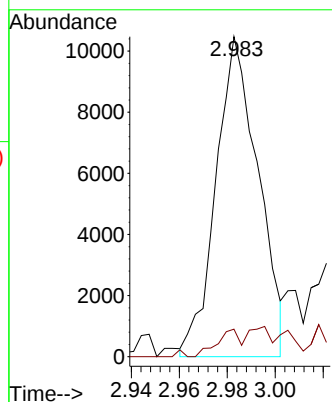
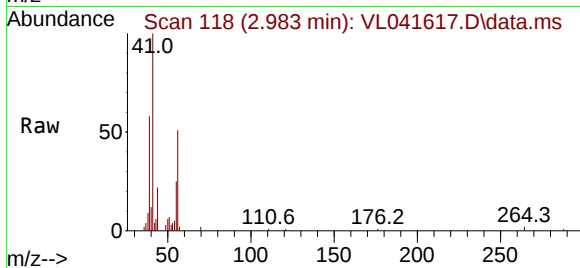
ClientSampleId :

Tgt Ion: 39 Resp: 12790

Ion Ratio Lower Upper

39 100

54 0.0 62.9 94.3#



#17

tert-Butyl alcohol

Concen: 0.065 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.058 min

Lab File: VL041617.D

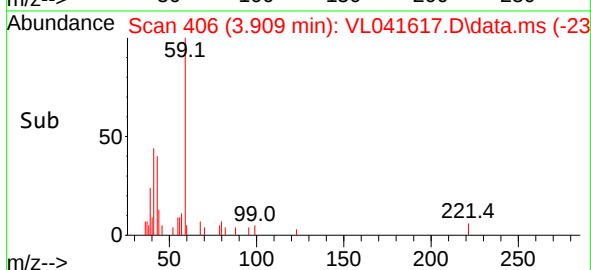
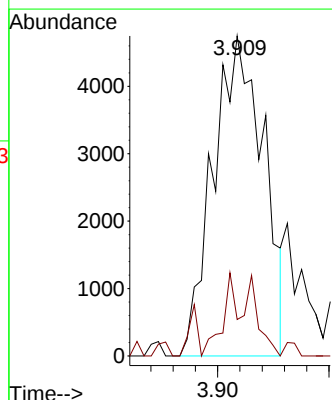
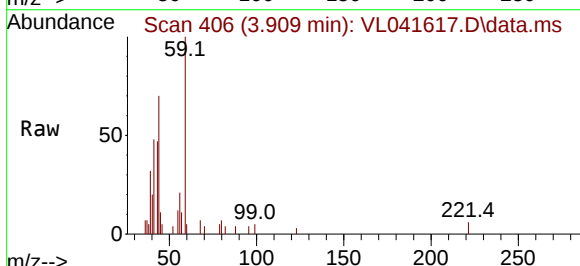
Acq: 18 Sep 2024 22:03

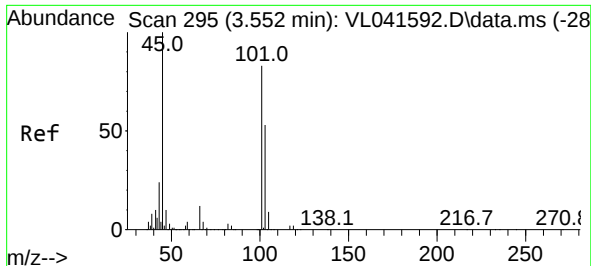
Tgt Ion: 59 Resp: 7437

Ion Ratio Lower Upper

59 100

57 18.6 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.814 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.048 min

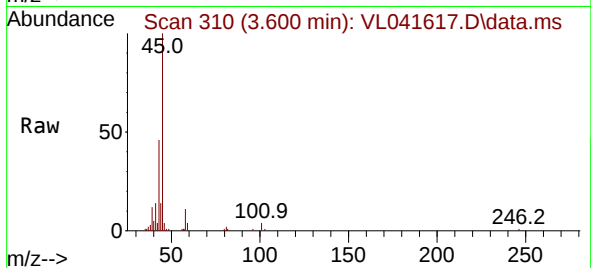
Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

Instrument :

MSVOA_L

ClientSampleId :

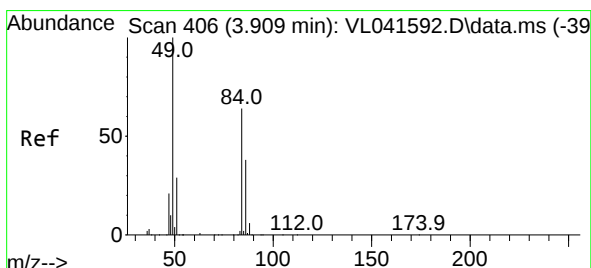
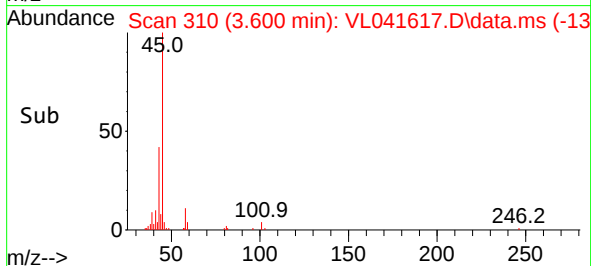
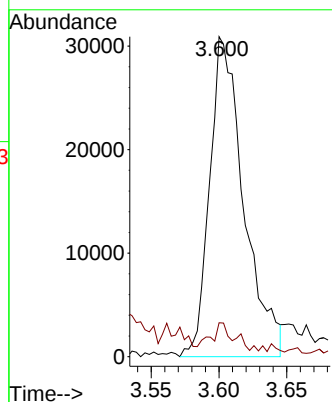


Tgt Ion: 45 Resp: 54069

Ion Ratio Lower Upper

45 100

58 9.0 2.1 3.1#



#20

Methylene Chloride

Concen: 1.235 ppbv

RT: 3.947 min Scan# 418

Delta R.T. 0.039 min

Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

Tgt Ion: 84 Resp: 60168

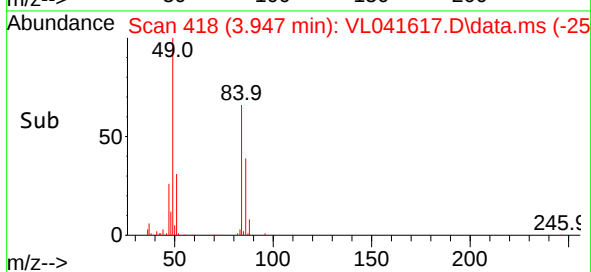
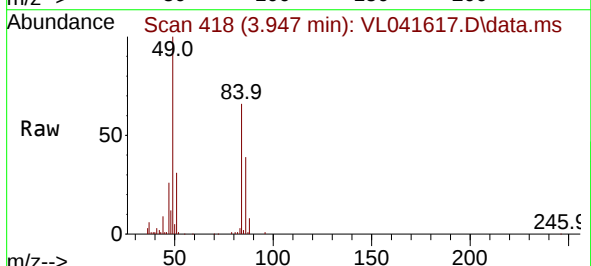
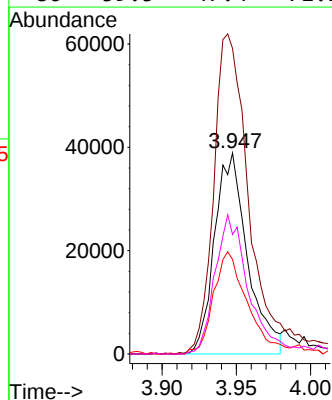
Ion Ratio Lower Upper

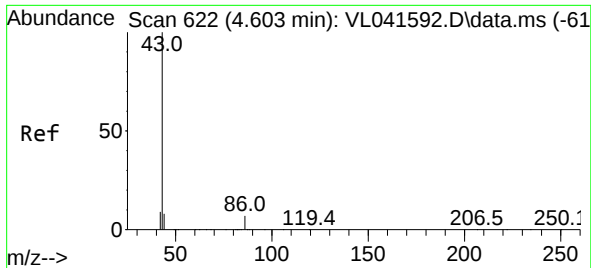
84 100

49 151.3 124.3 186.5

51 47.0 36.3 54.5

86 59.5 47.4 71.2



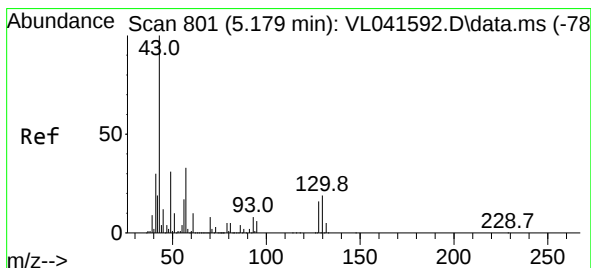
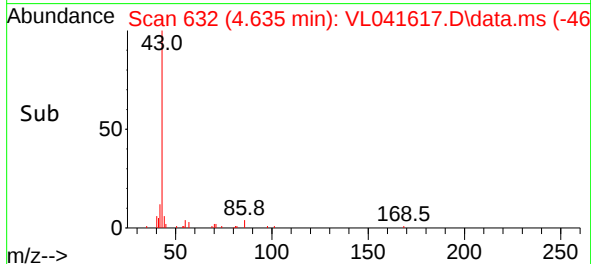
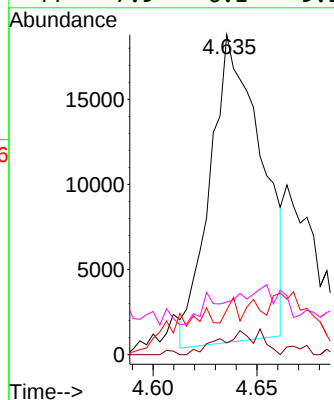
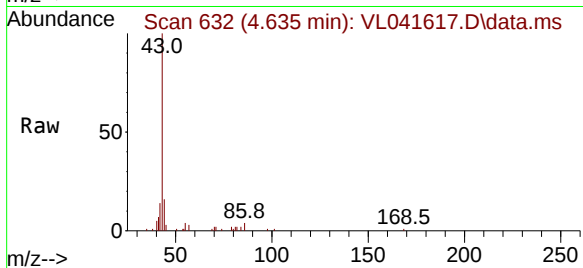


#23
 Vinyl Acetate
 Concen: 0.432 ppbv
 RT: 4.635 min Scan# 61
 Delta R.T. 0.032 min
 Lab File: VL041617.D
 Acq: 18 Sep 2024 22:03

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 30849

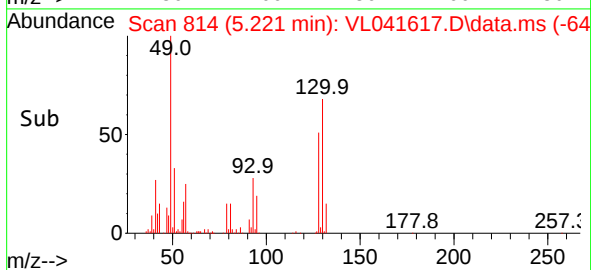
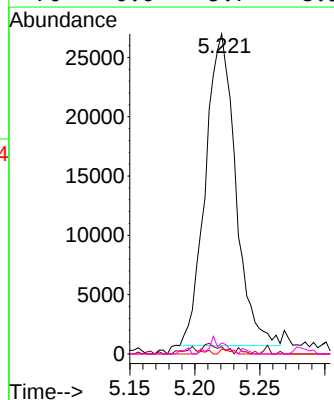
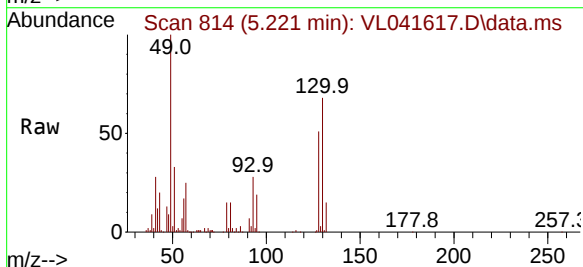
Ion	Ratio	Lower	Upper
43	100		
86	4.1	4.9	7.3#
42	1.3	8.0	12.0#
44	7.9	6.1	9.1

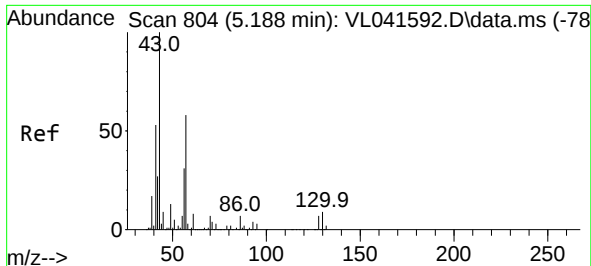


#25
 Ethyl Acetate
 Concen: 0.182 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.042 min
 Lab File: VL041617.D
 Acq: 18 Sep 2024 22:03

Tgt Ion: 43 Resp: 42439

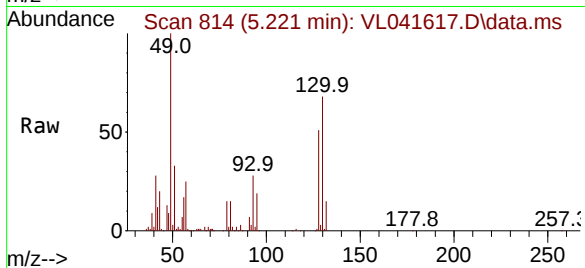
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.6	8.0	12.0#
70	0.0	5.7	8.5#



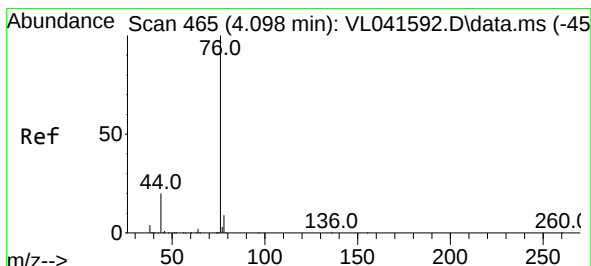
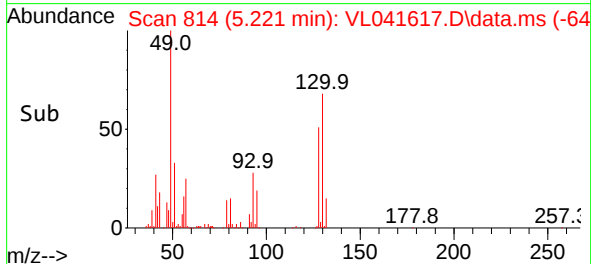
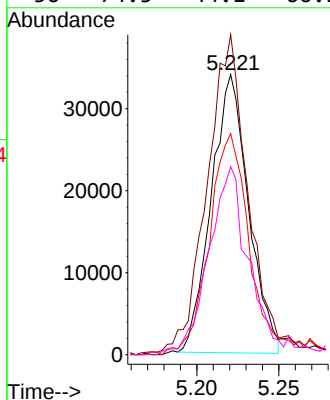


#26
Hexane
Concen: 0.552 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.032 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Instrument :
MSVOA_L
ClientSampleId :

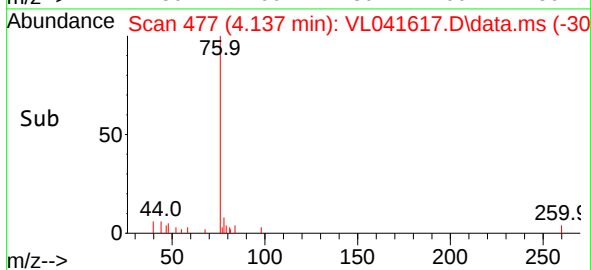
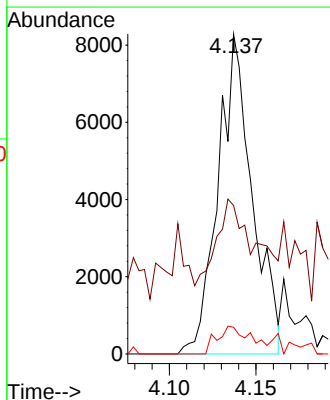
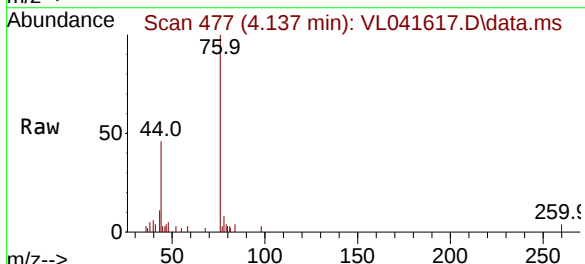


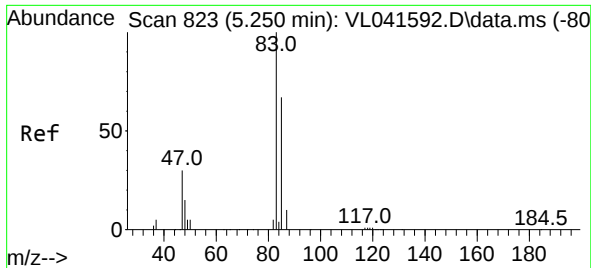
Tgt Ion: 57 Resp: 53601
Ion Ratio Lower Upper
57 100
41 132.8 75.7 113.5#
43 90.6 198.5 297.7#
56 74.5 44.1 66.1#



#27
Carbon Disulfide
Concen: 0.110 ppbv
RT: 4.137 min Scan# 477
Delta R.T. 0.039 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 76 Resp: 11346
Ion Ratio Lower Upper
76 100
44 39.4 15.8 23.8#
78 12.2 7.5 11.3#

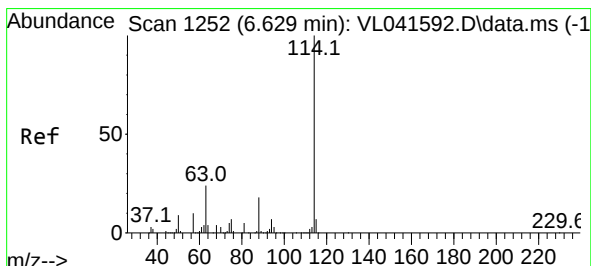
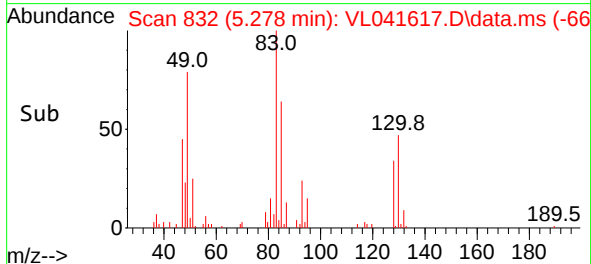
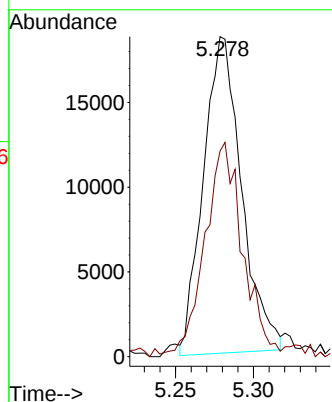
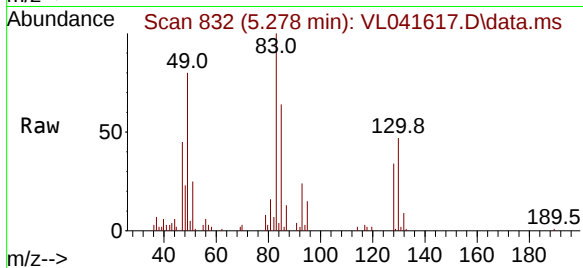




#29
Chloroform
Concen: 0.200 ppbv
RT: 5.278 min Scan# 81
Delta R.T. 0.029 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

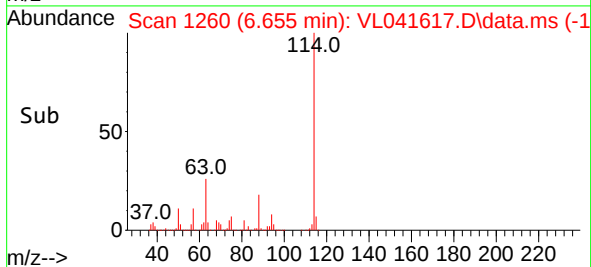
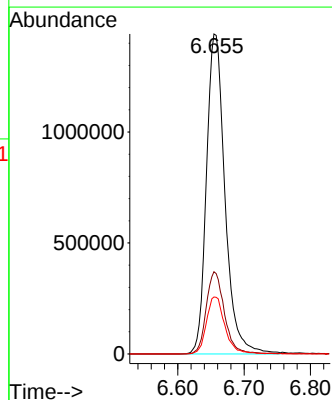
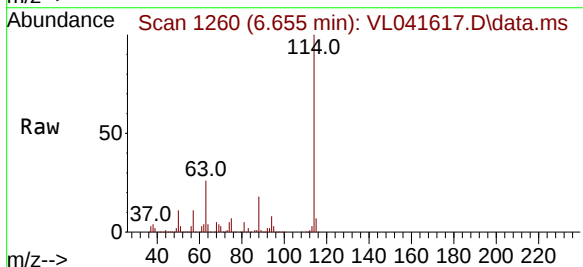
Instrument :
MSVOA_L
ClientSampleId :

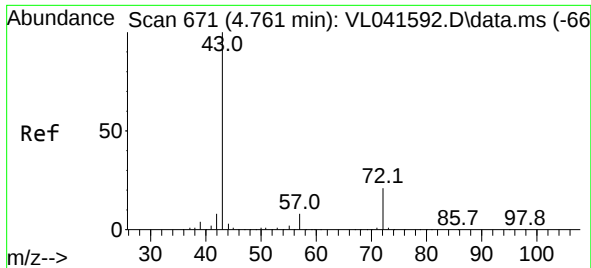
Tgt Ion: 83 Resp: 31848
Ion Ratio Lower Upper
83 100
85 64.9 53.8 80.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.026 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 114 Resp: 2802213
Ion Ratio Lower Upper
114 100
63 25.4 20.2 30.2
88 17.9 14.2 21.4

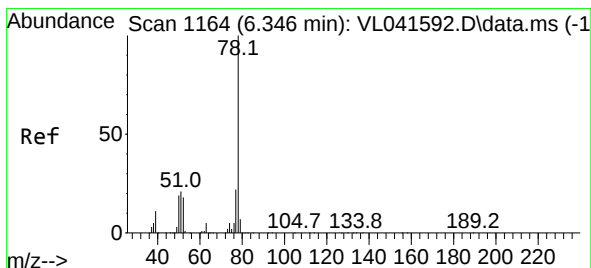
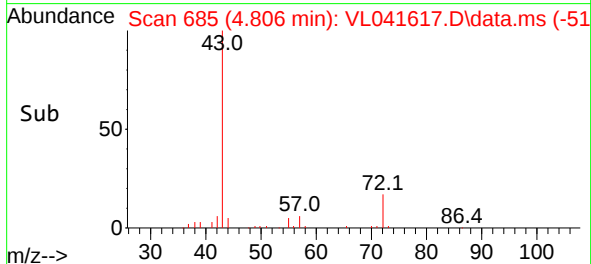
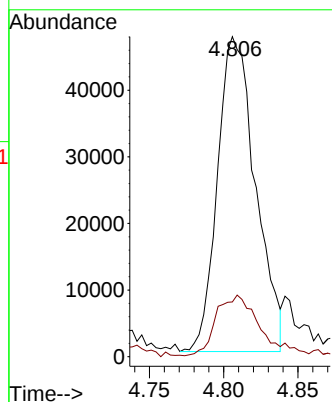
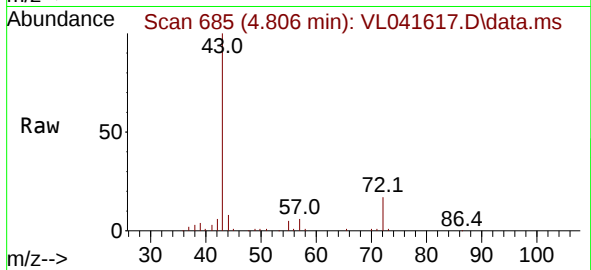




#34
2-Butanone
Concen: 0.632 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.045 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

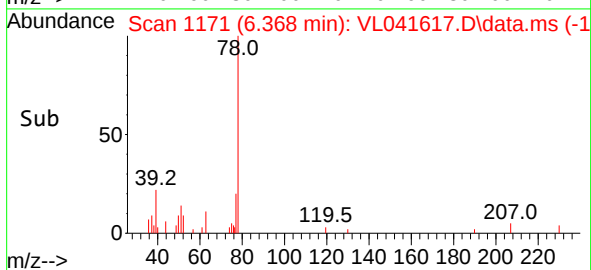
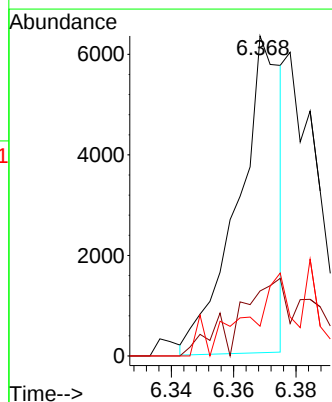
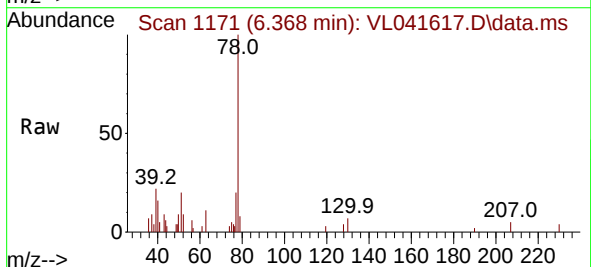
Instrument :
MSVOA_L
ClientSampleId :

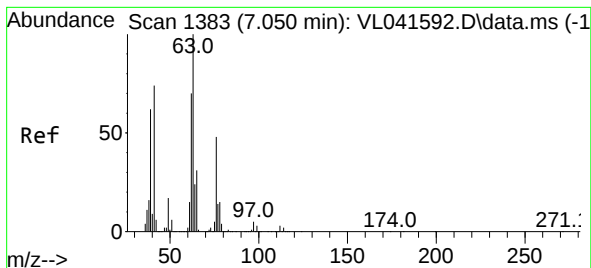
Tgt Ion: 43 Resp: 84403
Ion Ratio Lower Upper
43 100
72 24.3 16.8 25.2



#36
Benzene
Concen: 0.031 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.023 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 78 Resp: 6031
Ion Ratio Lower Upper
78 100
77 21.0 17.8 26.6
50 9.6 15.4 23.0#





#39

1,2-Dichloropropane

Concen: 8.911 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.395 min

Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

Instrument :

MSVOA_L

ClientSampleId :

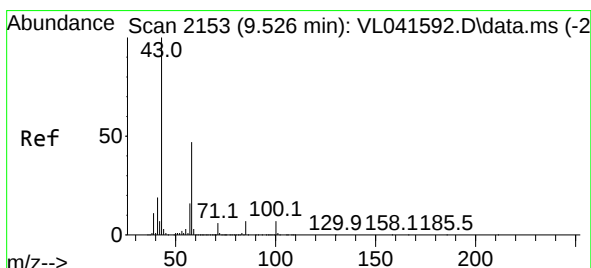
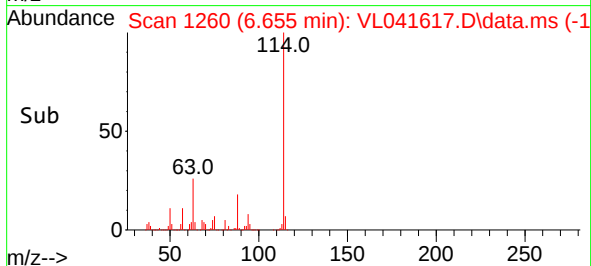
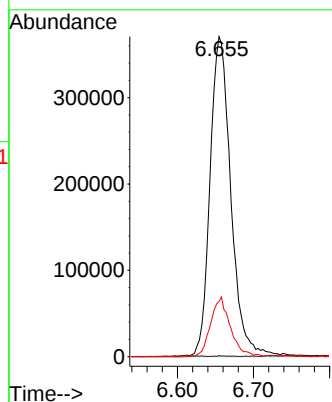
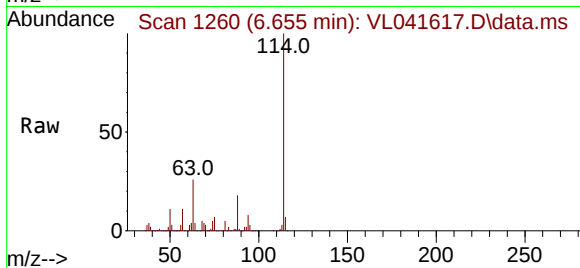
Tgt Ion: 63 Resp: 705515

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.3 56.2 84.2#



#51

2-Hexanone

Concen: 0.115 ppbv

RT: 9.568 min Scan# 2166

Delta R.T. 0.042 min

Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

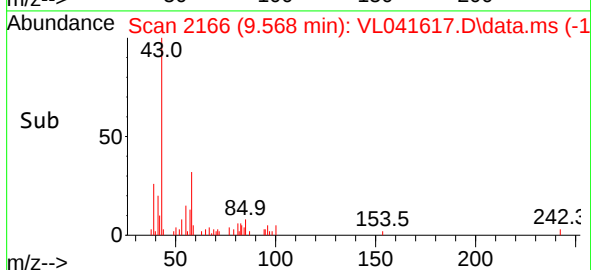
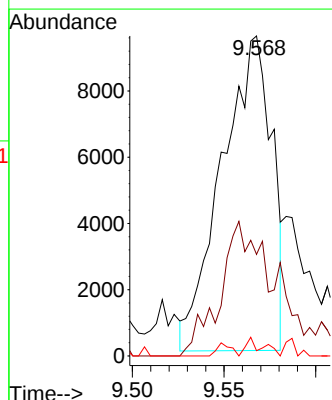
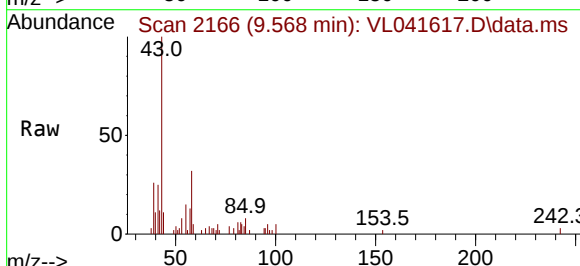
Tgt Ion: 43 Resp: 18011

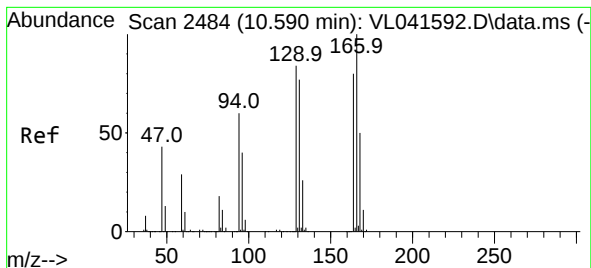
Ion Ratio Lower Upper

43 100

58 54.1 37.2 55.8

98 4.1 0.5 0.7#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. 0.016 min

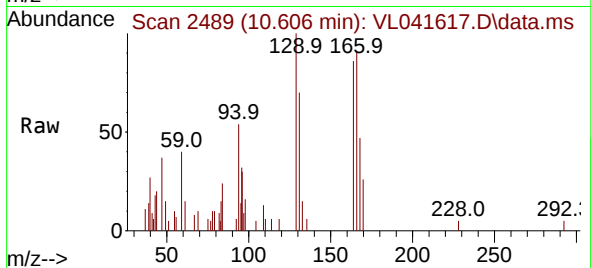
Lab File: VL041617.D

Acq: 18 Sep 2024 22:03

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 2981

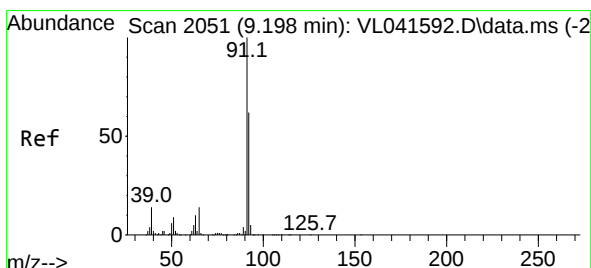
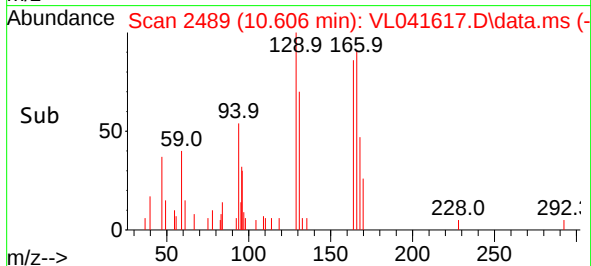
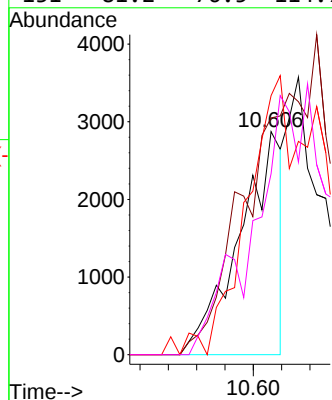
Ion Ratio Lower Upper

164 100

166 106.2 99.4 149.2

129 116.2 83.5 125.3

131 81.2 76.5 114.7



#53

Toluene

Concen: 0.250 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.026 min

Lab File: VL041617.D

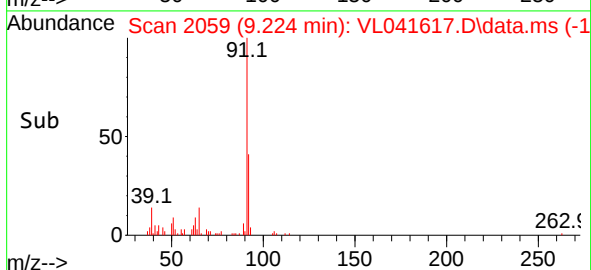
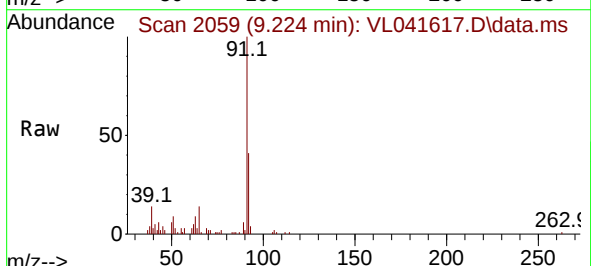
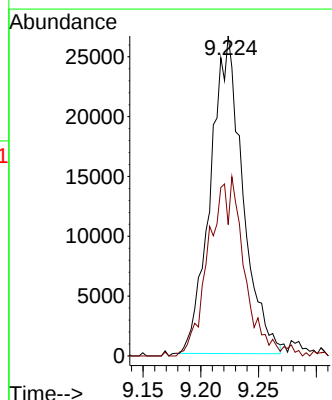
Acq: 18 Sep 2024 22:03

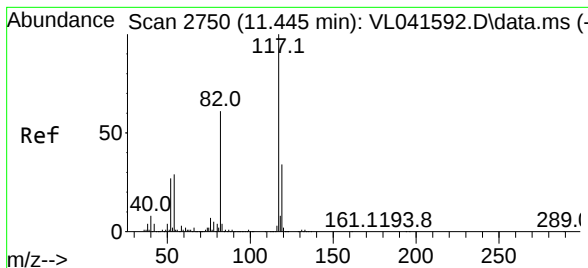
Tgt Ion: 91 Resp: 51653

Ion Ratio Lower Upper

91 100

92 62.8 48.9 73.3

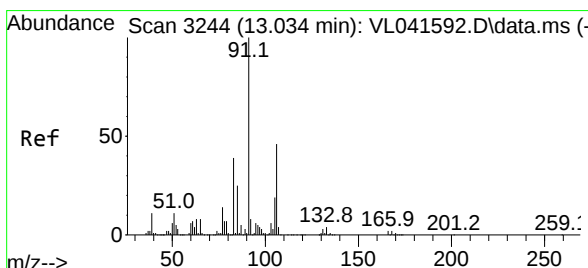
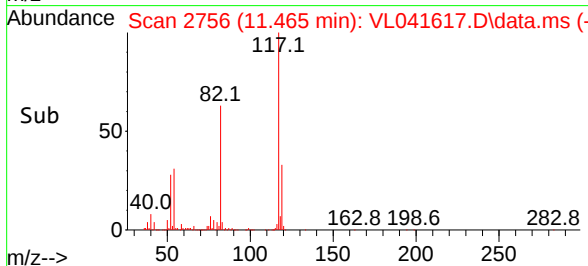
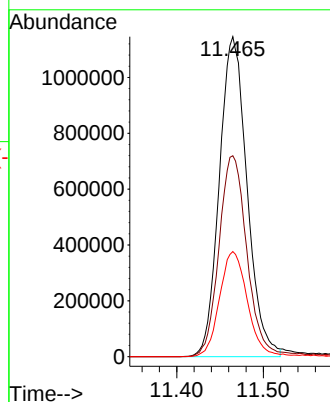
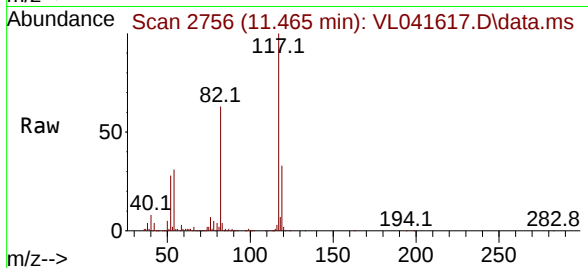




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

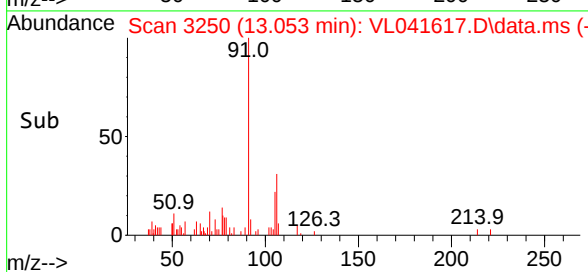
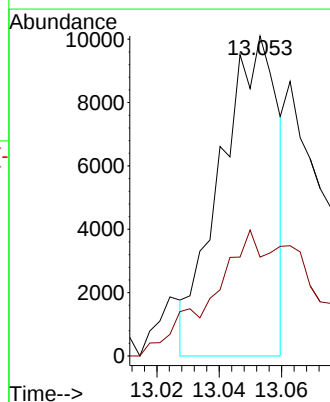
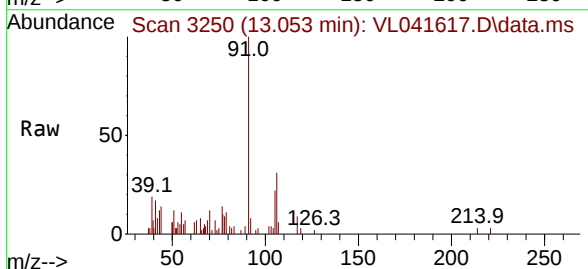
Instrument :
MSVOA_L
ClientSampleId :

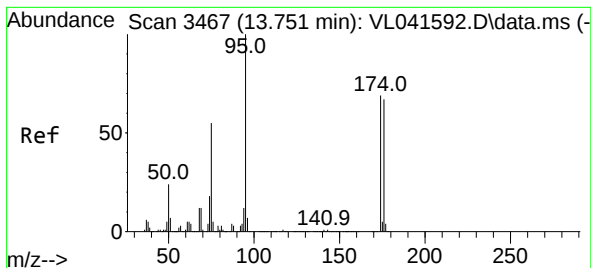
Tgt Ion:117 Resp: 2546741
Ion Ratio Lower Upper
117 100
82 65.0 49.4 74.2
119 33.8 24.4 36.6



#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.053 min Scan# 3250
Delta R.T. 0.019 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 91 Resp: 12791
Ion Ratio Lower Upper
91 100
106 72.4 23.1 69.3#

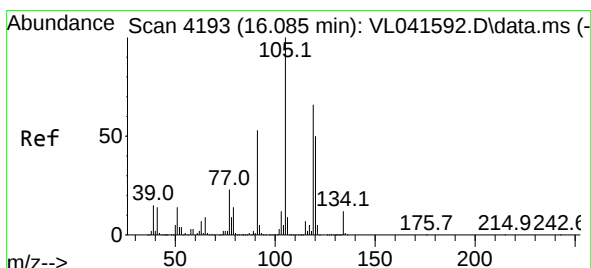
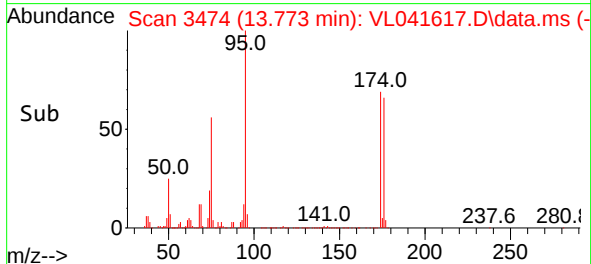
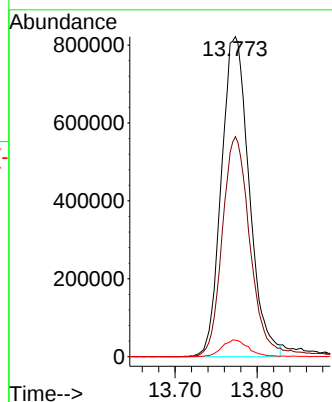
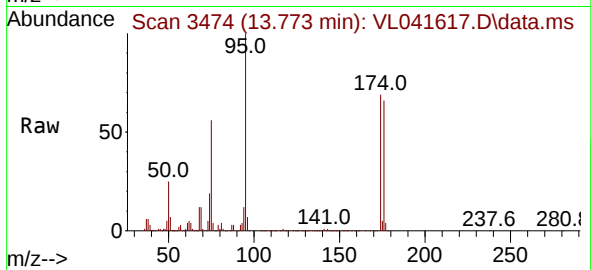




#68
1-Bromo-4-Fluorobenzene
Concen: 10.335 ppbv
RT: 13.773 min Scan# 3467
Delta R.T. 0.023 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1937633
Ion Ratio Lower Upper
95 100
174 71.0 55.8 83.8
175 5.2 4.1 6.1



#74
1,2,4-Trimethylbenzene
Concen: 0.222 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.023 min
Lab File: VL041617.D
Acq: 18 Sep 2024 22:03

Tgt Ion: 105 Resp: 62400
Ion Ratio Lower Upper
105 100
120 43.4 39.9 59.9
91 16.6 42.6 63.8#
77 9.8 18.2 27.2#

