

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
 Data File : VL034472.D
 Acq On : 9 Dec 2019 20:07
 Operator : SY/AP
 Sample : K6195-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-HW

Quant Time: Dec 10 03:41:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	827428	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1674961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1699777	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1443775	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

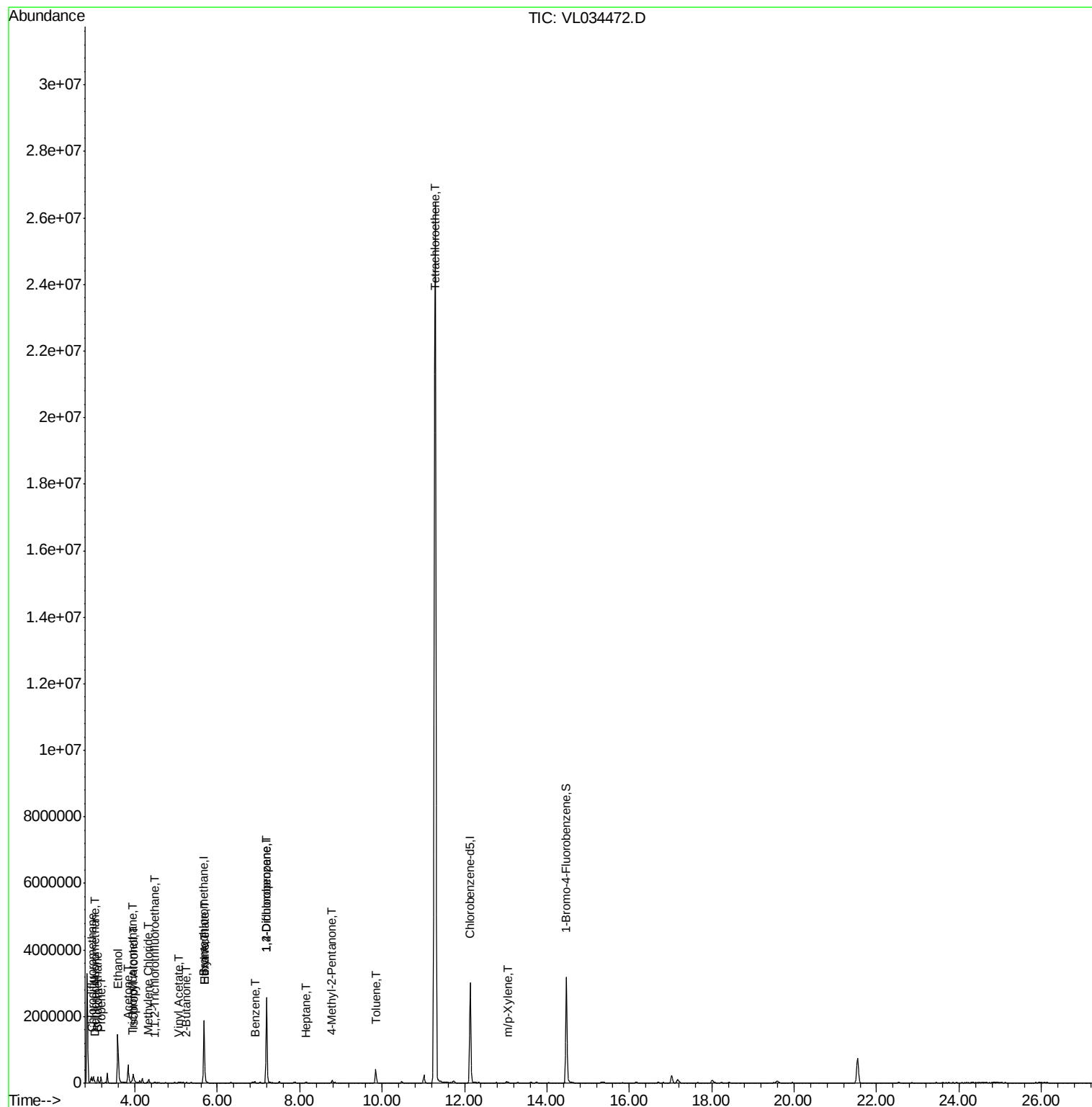
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	36075	0.241	ppbv	99
3) Chlorodifluoromethane	2.96	51	218092	2.113	ppbv #	86
4) Chloromethane	3.11	50	19017	0.312	ppbv	95
9) Propene	3.18	41	36449	0.795	ppbv	83
10) Heptane	8.15	43	4194	0.035	ppbv #	27
11) Trichlorofluoromethane	3.93	101	38916	0.261	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4264	0.043	ppbv #	23
13) Ethanol	3.58	45	1576309	123.462	ppbv	96
15) Acetone	3.83	43	546842	4.615	ppbv	100
19) Isopropyl Alcohol	3.96	45	284400	3.745	ppbv #	99
20) Methylene Chloride	4.33	84	31500	0.750	ppbv	92
23) Vinyl Acetate	5.07	43	11919	0.077	ppbv #	57
25) Ethyl Acetate	5.69	43	68670	0.325	ppbv #	87
26) Hexane	5.69	57	79441	0.874	ppbv #	43
34) 2-Butanone	5.25	43	37656	0.273	ppbv	97
36) Benzene	6.91	78	13978	0.083	ppbv #	75
39) 1,2-Dichloropropane	7.20	63	492915	7.641	ppbv #	24
50) 4-Methyl-2-Pentanone	8.79	43	58059	0.291	ppbv	95
52) Tetrachloroethene	11.29	164	8625128	119.057	ppbv	86
53) Toluene	9.84	91	291119	1.531	ppbv	99
59) m/p-Xylene	13.05	91	9417	0.041	ppbv #	33

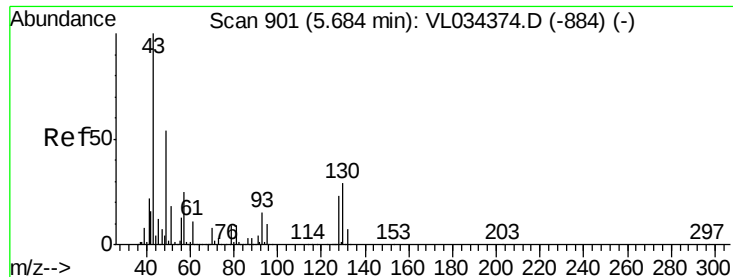
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

IA-HW

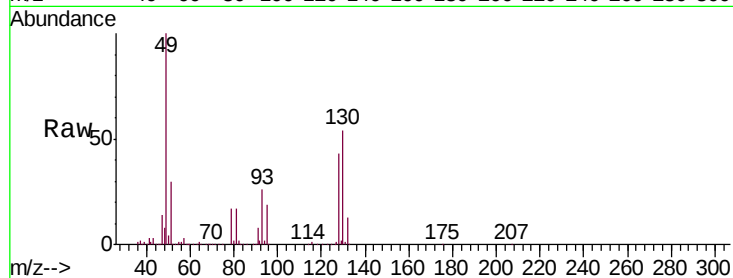
Tgt Ion: 49 Resp: 827428

Ion Ratio Lower Upper

49 100

128 43.4 21.8 65.3

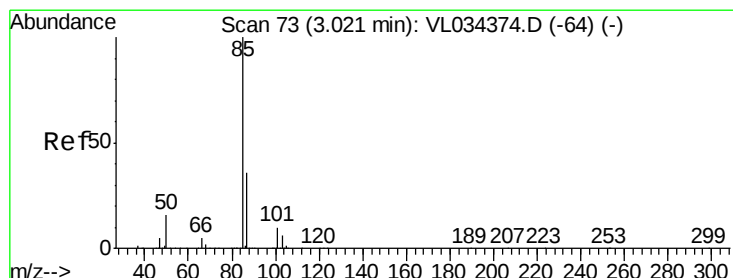
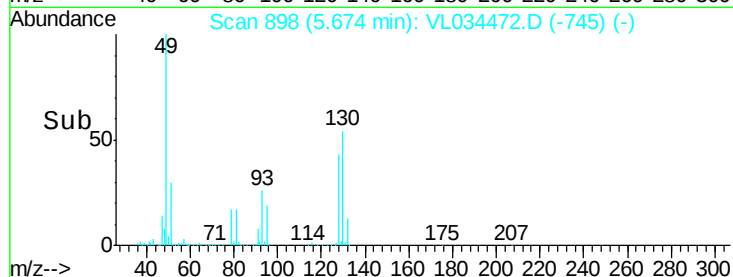
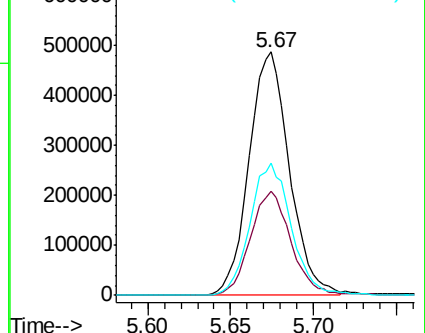
130 56.0 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.241 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL034472.D

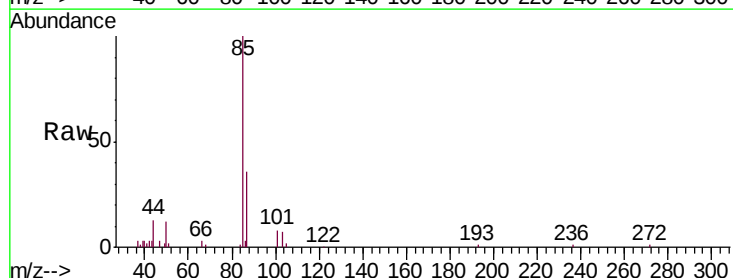
Acq: 9 Dec 2019 20:07

Tgt Ion: 85 Resp: 36075

Ion Ratio Lower Upper

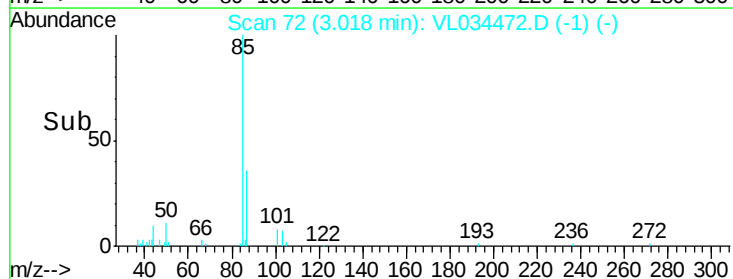
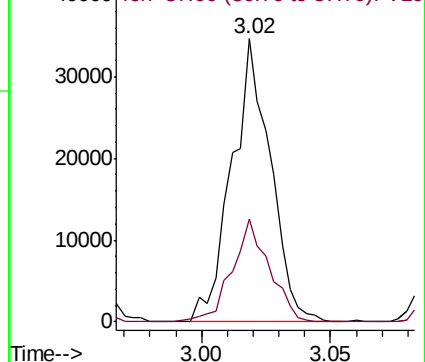
85 100

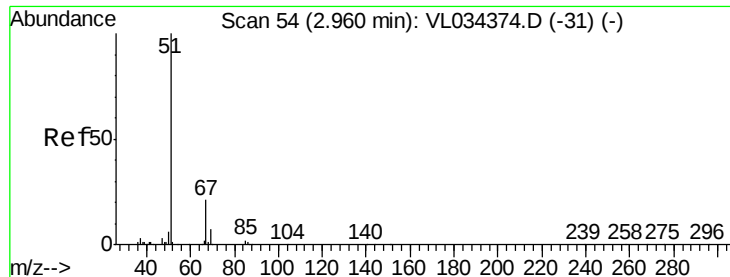
87 36.4 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.113 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

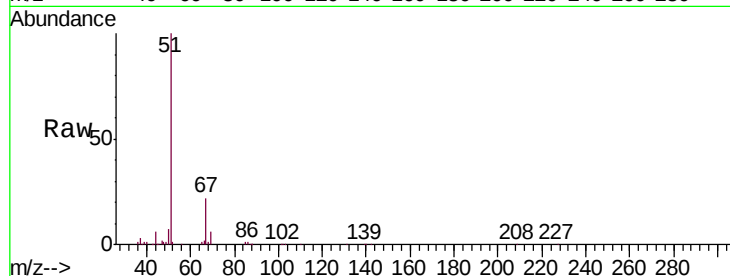
IA-HW

Tgt Ion: 51 Resp: 218092

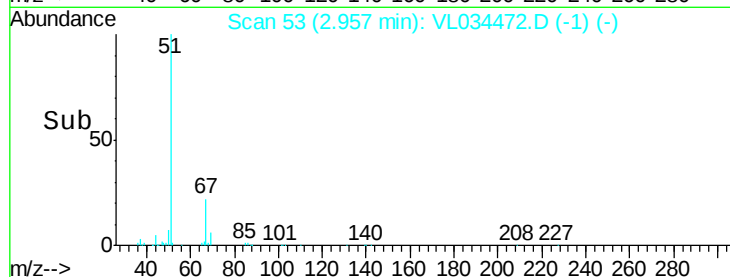
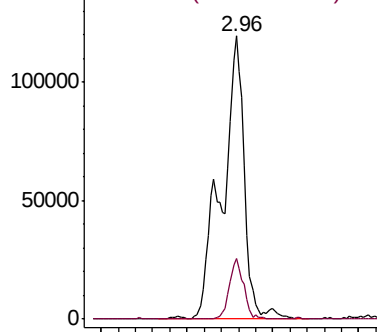
Ion Ratio Lower Upper

51 100

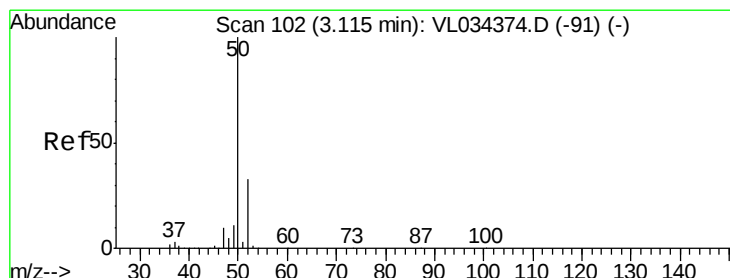
67 13.7 16.2 24.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.312 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.01 min

Lab File: VL034472.D

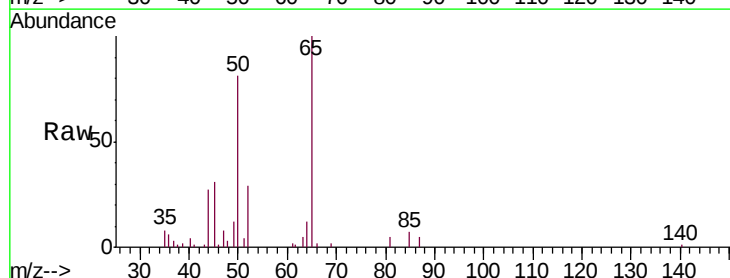
Acq: 9 Dec 2019 20:07

Tgt Ion: 50 Resp: 19017

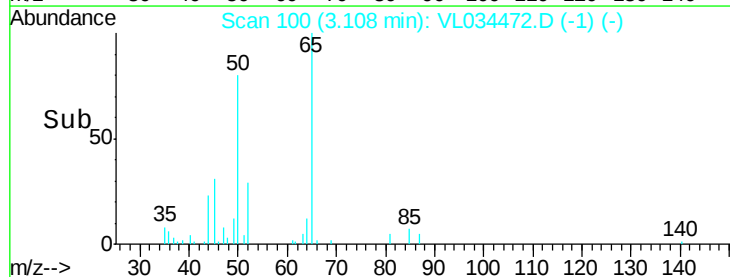
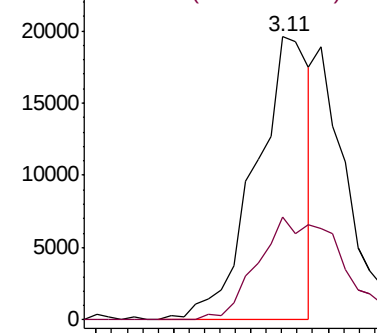
Ion Ratio Lower Upper

50 100

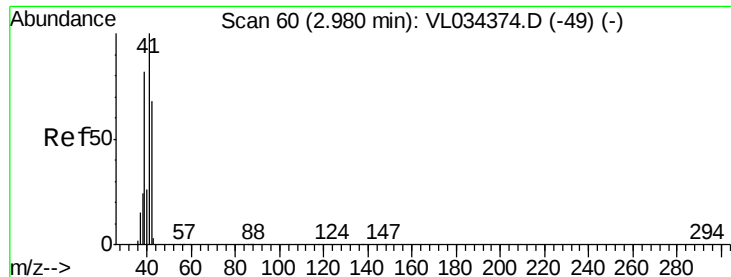
52 36.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0



Time-->



#9

Propene

Concen: 0.795 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.20 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

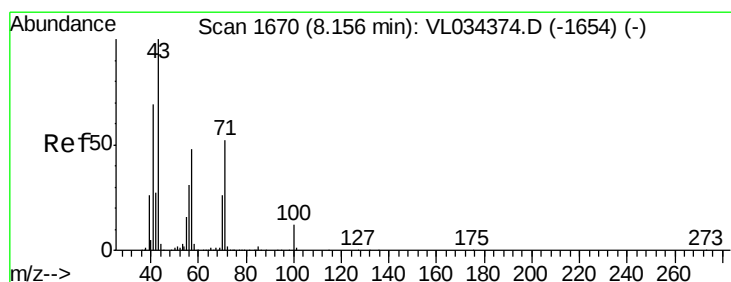
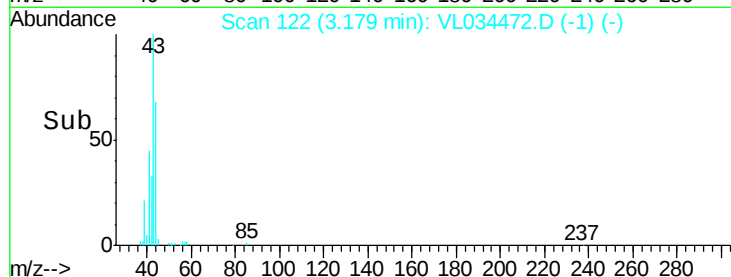
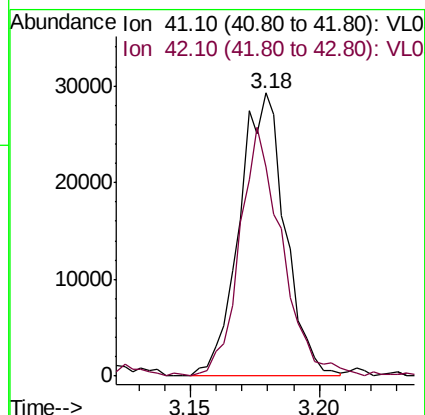
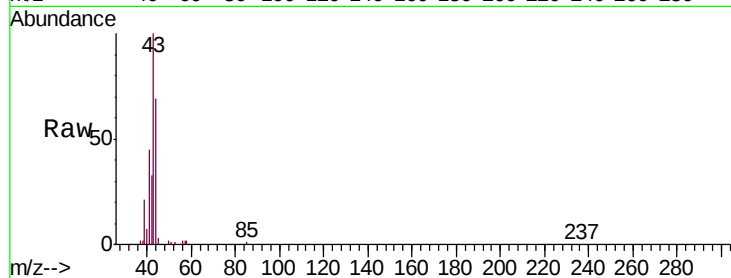
IA-HW

Tgt Ion: 41 Resp: 36449

Ion Ratio Lower Upper

41 100

42 81.9 54.6 82.0



#10

Heptane

Concen: 0.035 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VL034472.D

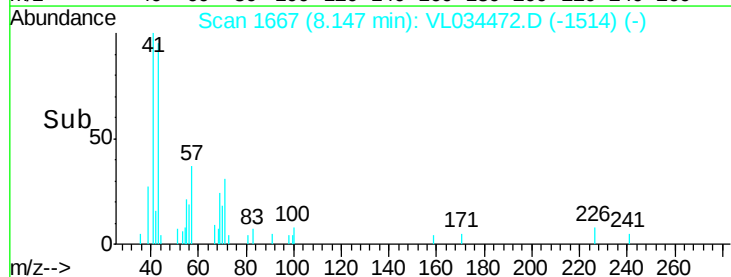
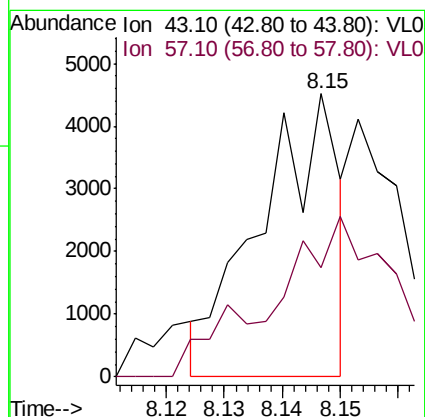
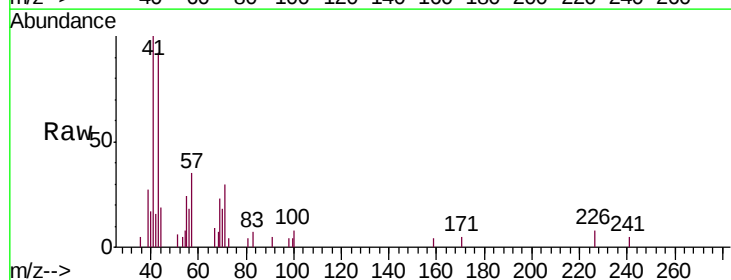
Acq: 9 Dec 2019 20:07

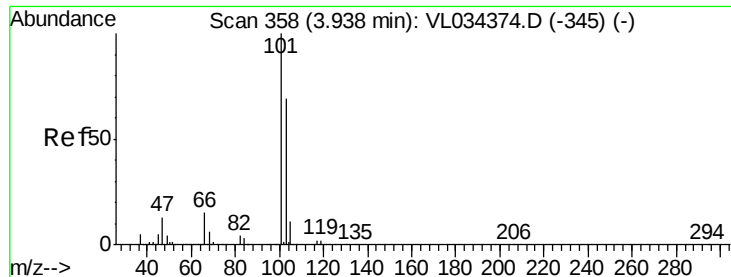
Tgt Ion: 43 Resp: 4194

Ion Ratio Lower Upper

43 100

57 0.0 40.2 60.2#

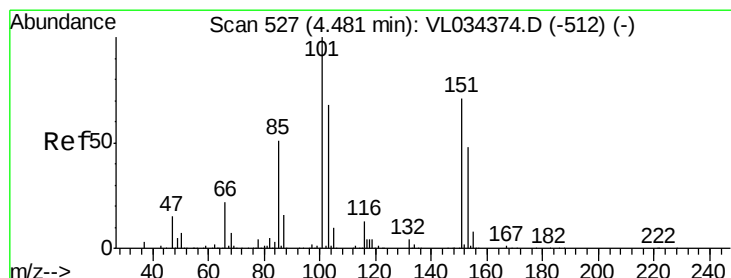
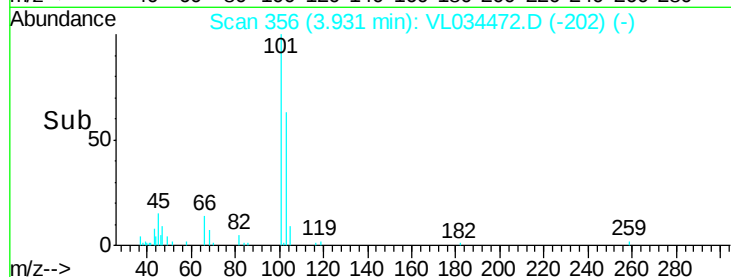
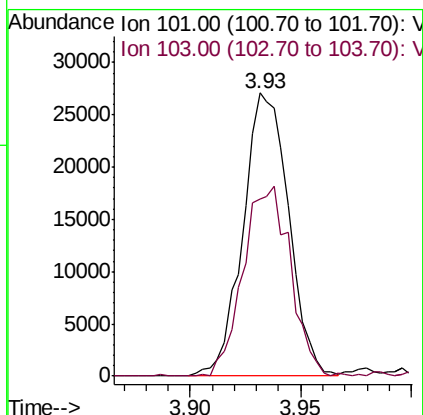
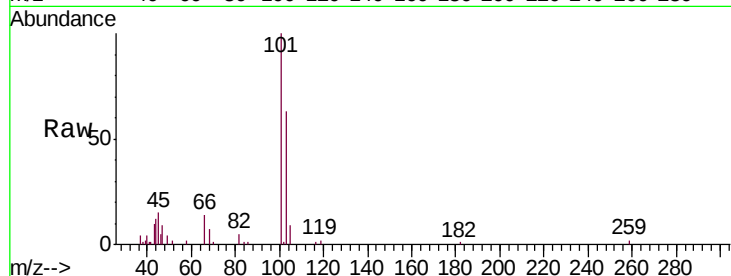




#11
 Trichlorofluoromethane
 Concen: 0.261 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL034472.D
 Acq: 9 Dec 2019 20:07

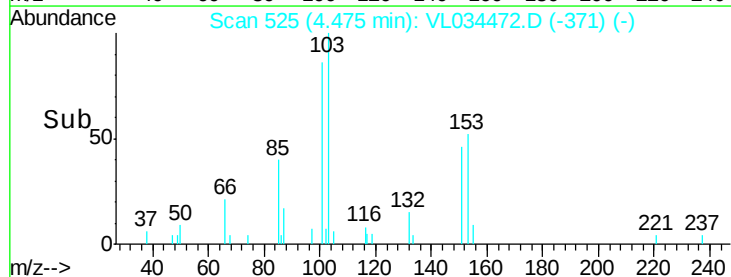
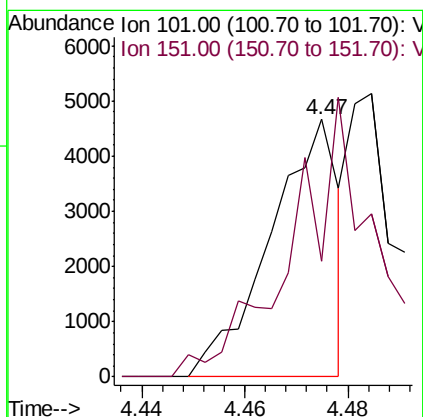
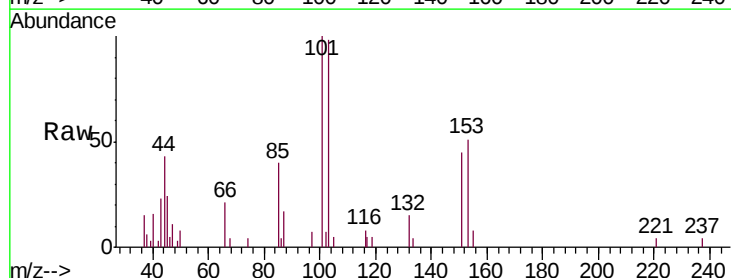
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-HW

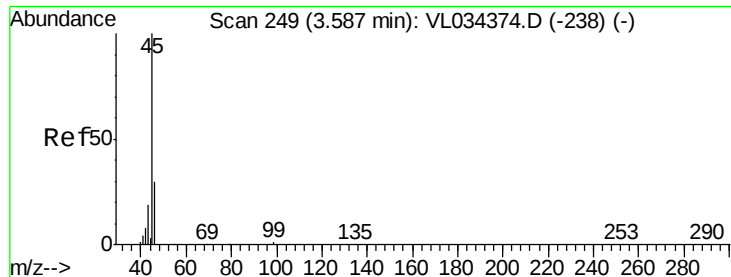
Tgt Ion:101 Resp: 38916
 Ion Ratio Lower Upper
 101 100
 103 62.7 55.4 83.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.043 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. -0.01 min
 Lab File: VL034472.D
 Acq: 9 Dec 2019 20:07

Tgt Ion:101 Resp: 4264
 Ion Ratio Lower Upper
 101 100
 151 136.0 57.4 86.2#

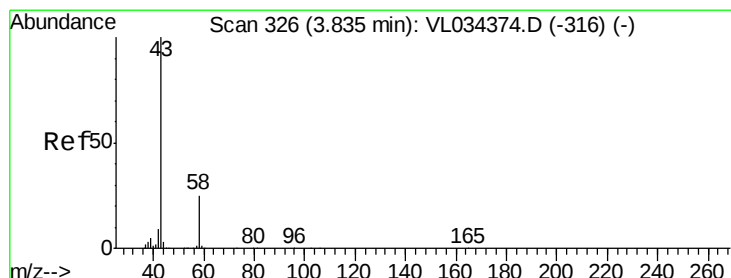
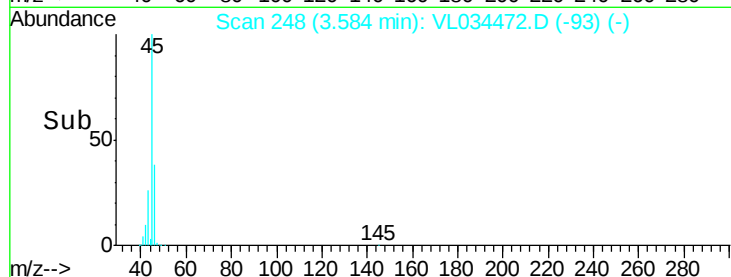
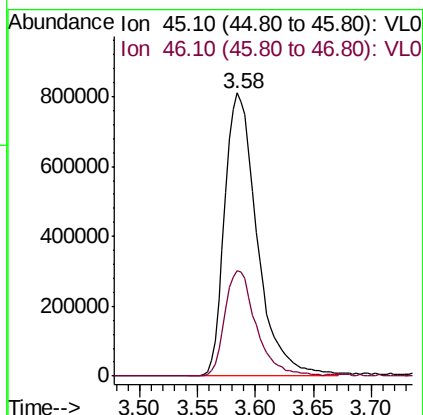
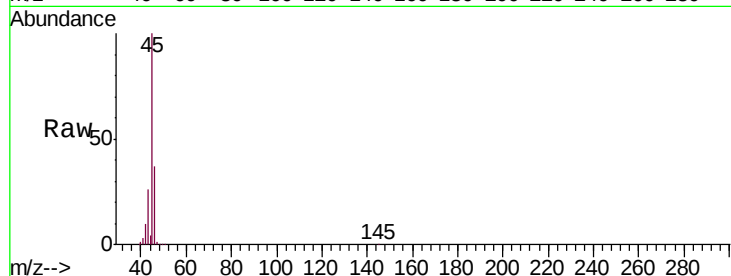




#13
Ethanol
Concen: 123.462 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.00 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

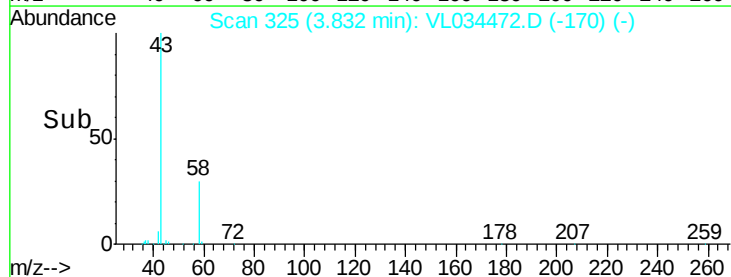
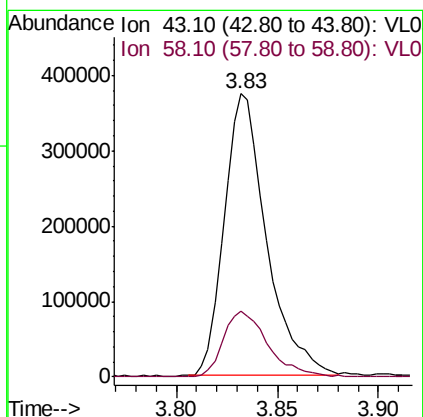
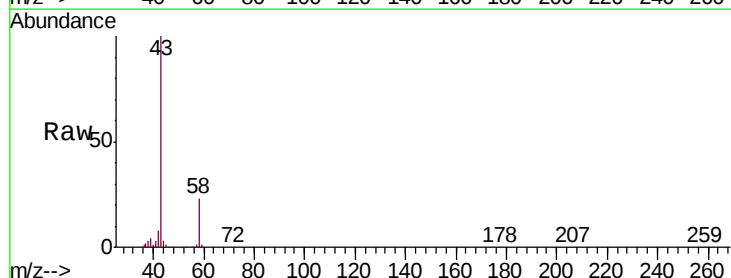
Instrument :
MSVOA_L
ClientSampleId :
IA-HW

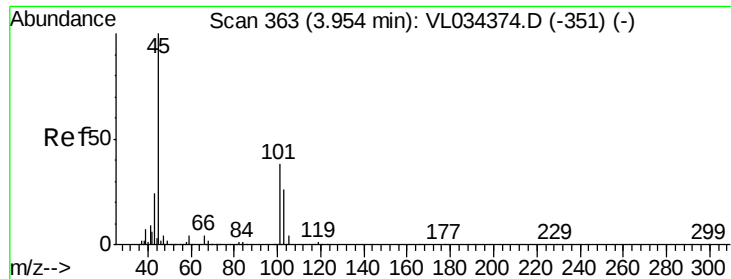
Tgt Ion: 45 Resp: 1576309
Ion Ratio Lower Upper
45 100
46 36.8 13.8 55.4



#15
Acetone
Concen: 4.615 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

Tgt Ion: 43 Resp: 546842
Ion Ratio Lower Upper
43 100
58 25.2 20.2 30.4

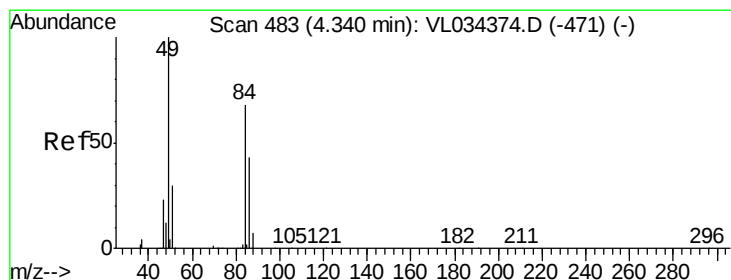
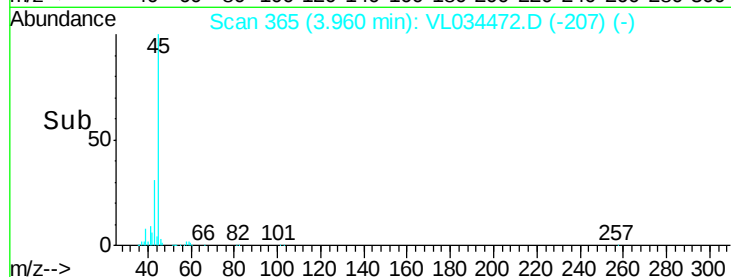
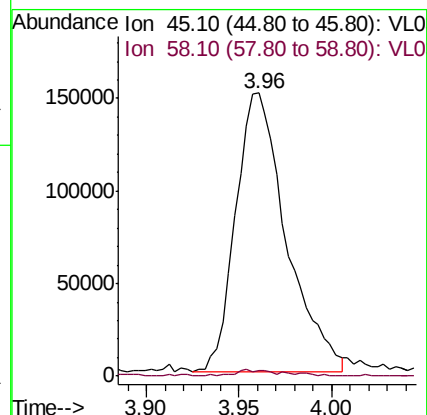
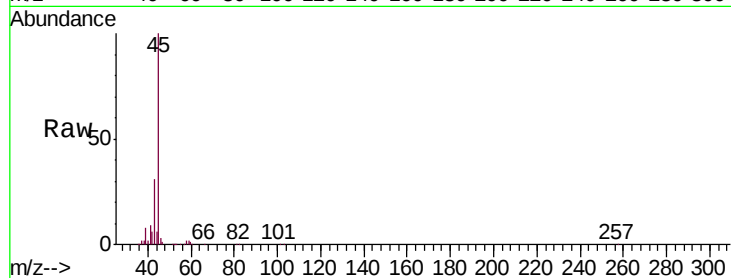




#19
Isopropyl Alcohol
Concen: 3.745 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

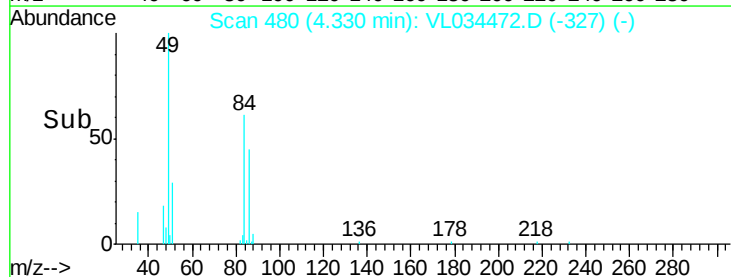
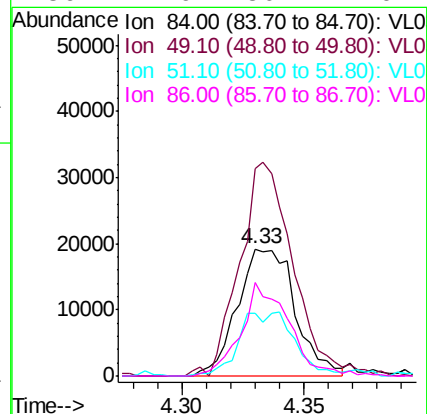
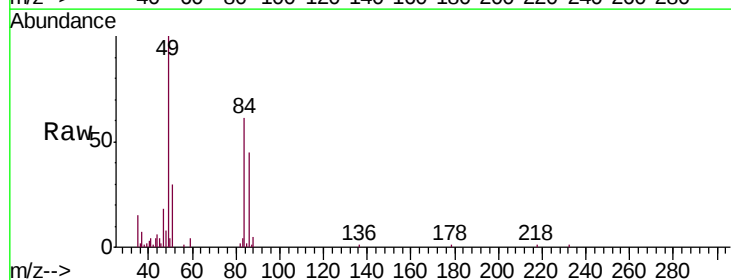
Instrument :
MSVOA_L
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IA-HW

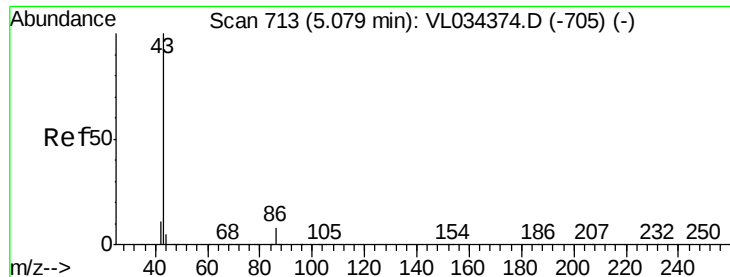
Tgt Ion: 45 Resp: 284400
Ion Ratio Lower Upper
45 100
58 2.1 1.3 1.9#



#20
Methylene Chloride
Concen: 0.750 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

Tgt Ion: 84 Resp: 31500
Ion Ratio Lower Upper
84 100
49 155.5 116.8 175.2
51 47.0 35.6 53.4
86 71.9 50.7 76.1





#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

IA-HW

Tgt Ion: 43 Resp: 11919

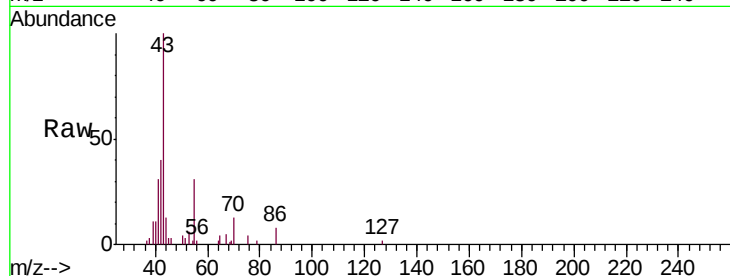
Ion Ratio Lower Upper

43 100

86 9.9 5.8 8.6#

42 41.9 8.9 13.3#

44 8.4 4.0 6.0#

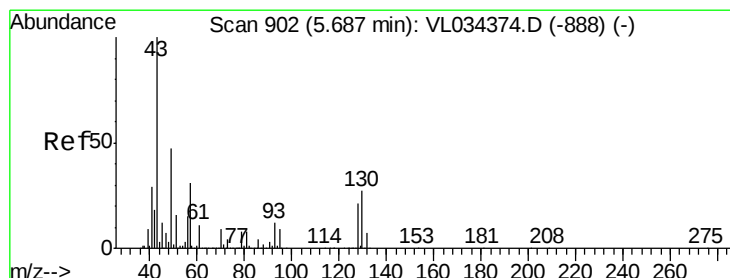
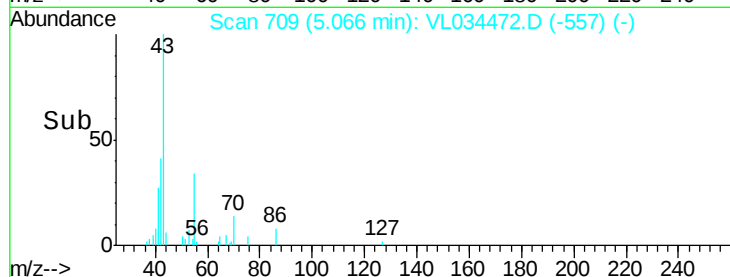
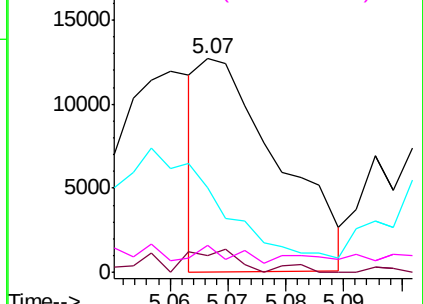


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.325 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Tgt Ion: 43 Resp: 68670

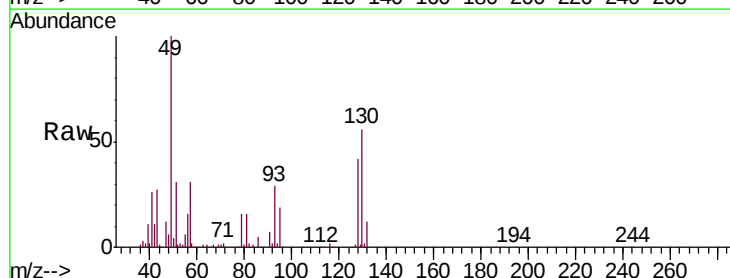
Ion Ratio Lower Upper

43 100

45 5.5 8.2 12.4#

61 3.5 7.5 11.3#

70 3.5 5.7 8.5#

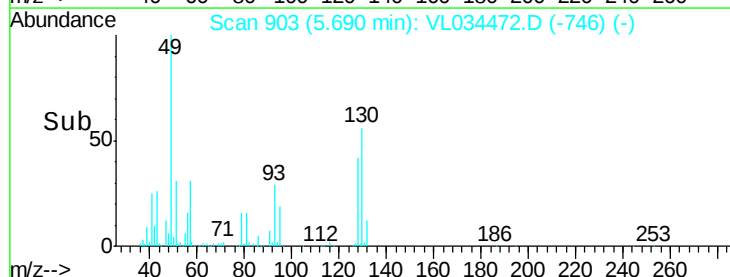
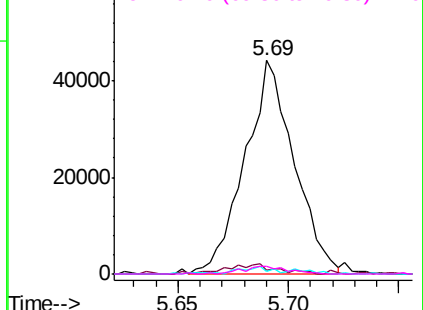


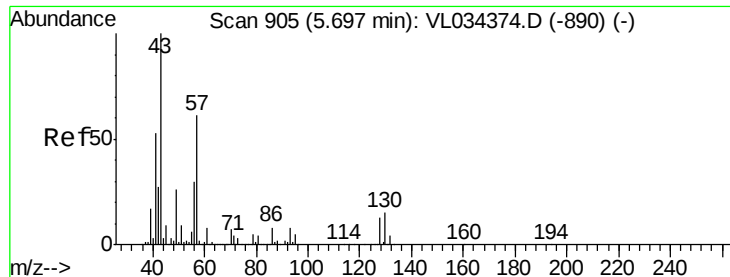
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

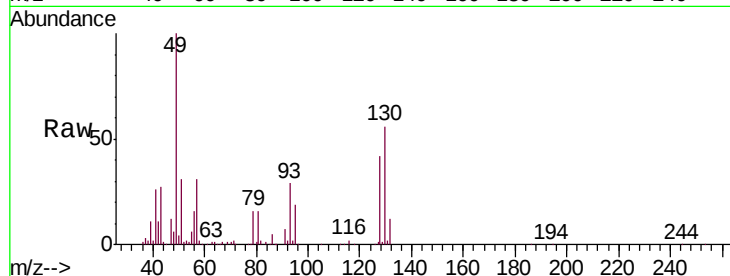




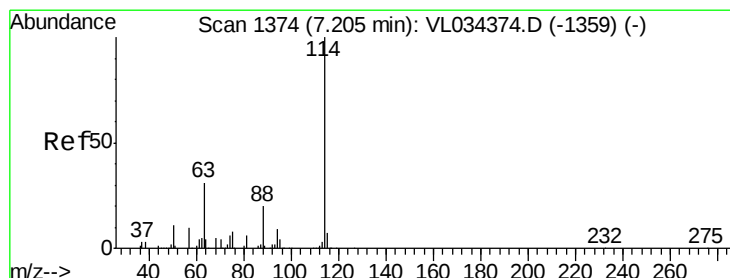
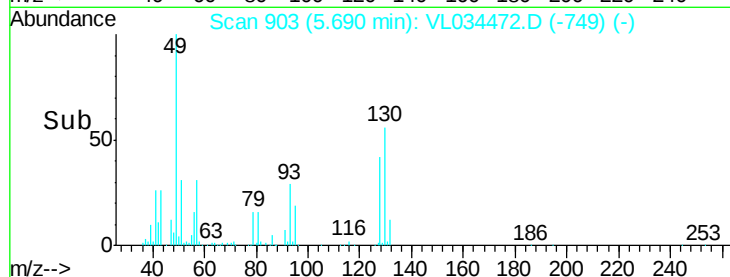
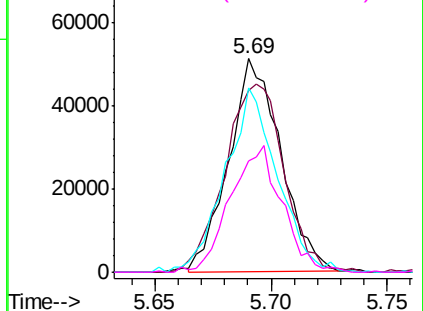
#26
Hexane
Concen: 0.874 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

Instrument :
MSVOA_L
ClientSampleId :
IA-HW

Tgt Ion: 57 Resp: 79441
Ion Ratio Lower Upper
57 100
41 101.7 75.0 112.4
43 87.7 186.6 279.8#
56 59.3 41.5 62.3

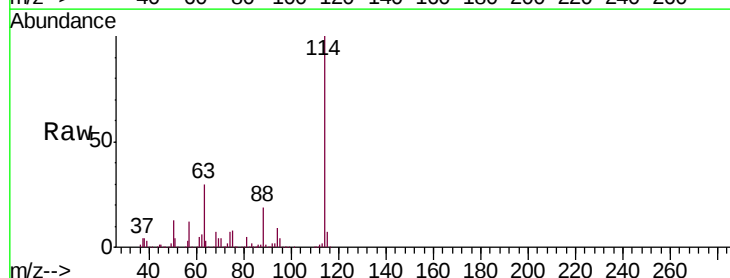


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

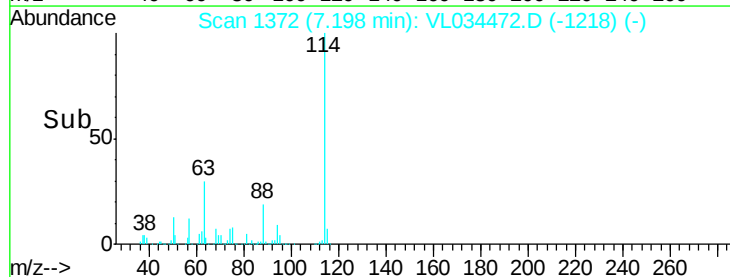
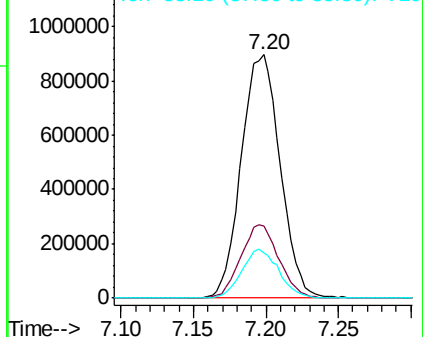


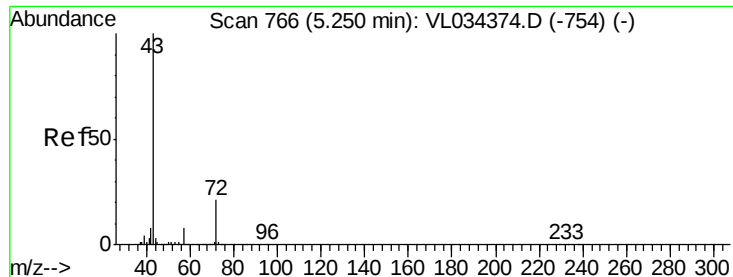
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

Tgt Ion: 114 Resp: 1674961
Ion Ratio Lower Upper
114 100
63 29.5 24.2 36.4
88 19.2 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.273 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

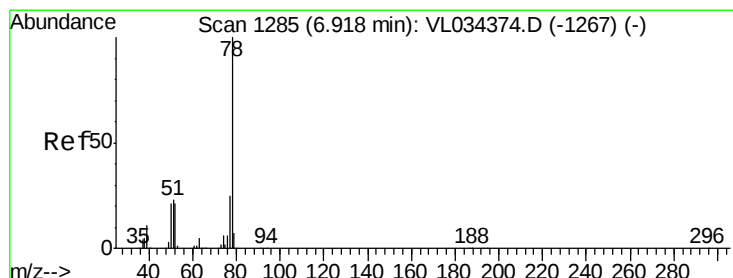
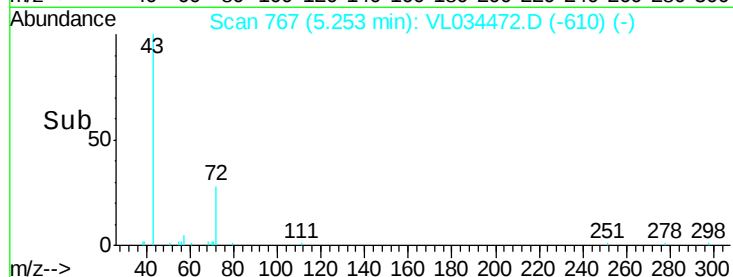
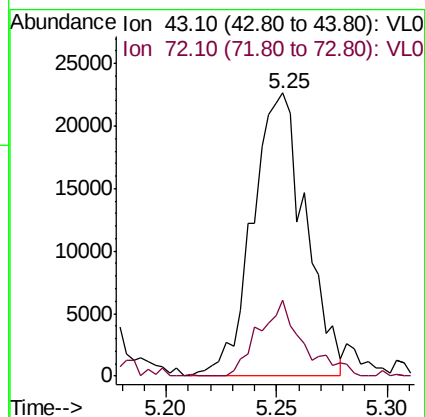
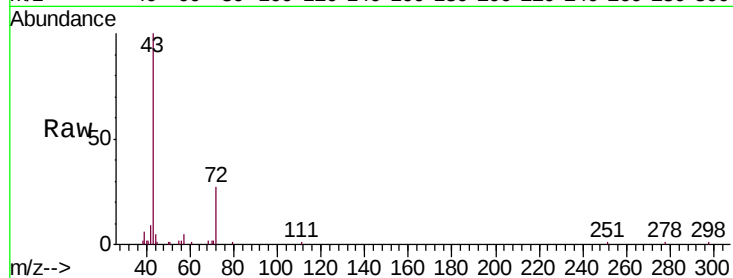
IA-HW

Tgt Ion: 43 Resp: 37656

Ion Ratio Lower Upper

43 100

72 22.9 17.0 25.6



#36

Benzene

Concen: 0.083 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

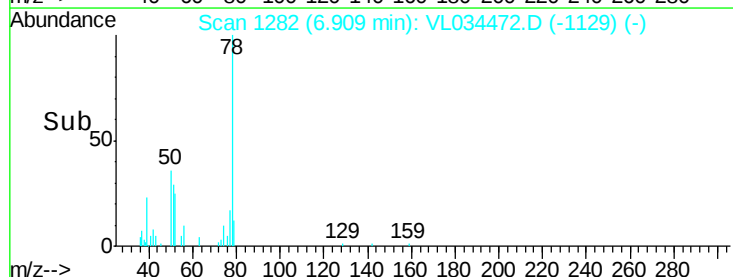
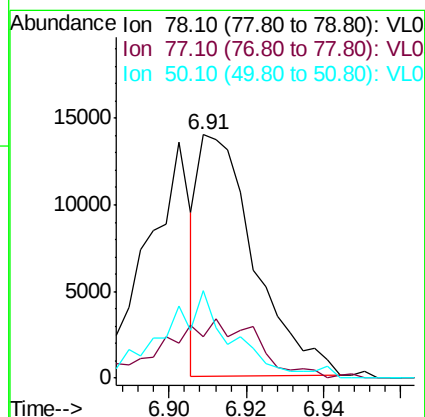
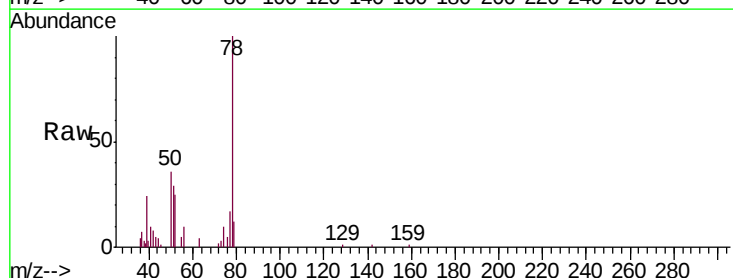
Tgt Ion: 78 Resp: 13978

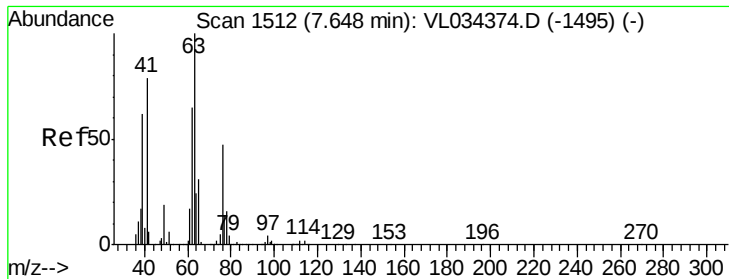
Ion Ratio Lower Upper

78 100

77 15.5 20.2 30.4#

50 36.4 17.1 25.7#

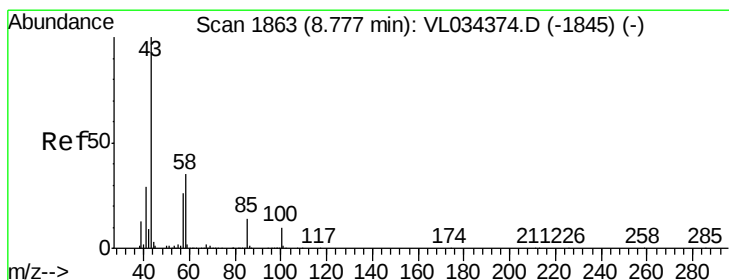
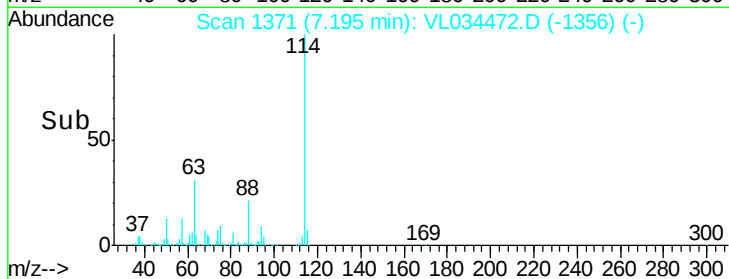
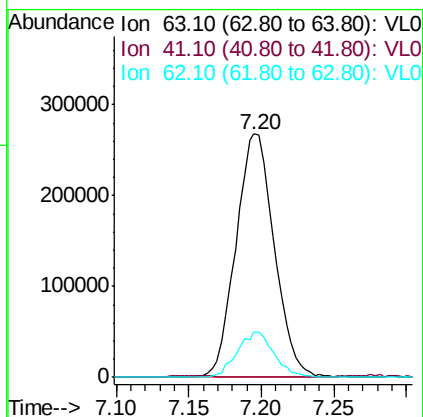
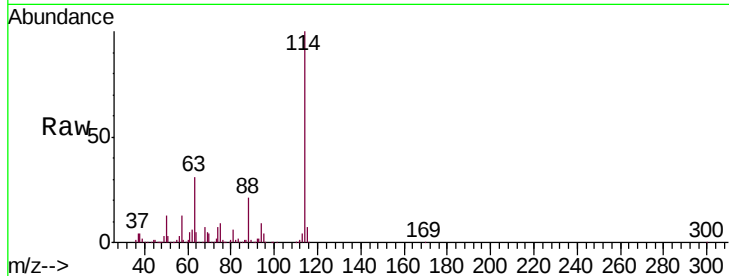




#39
 1,2-Dichloropropane
 Concen: 7.641 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034472.D
 Acq: 9 Dec 2019 20:07

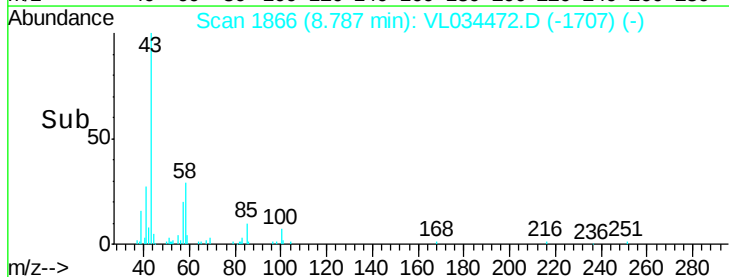
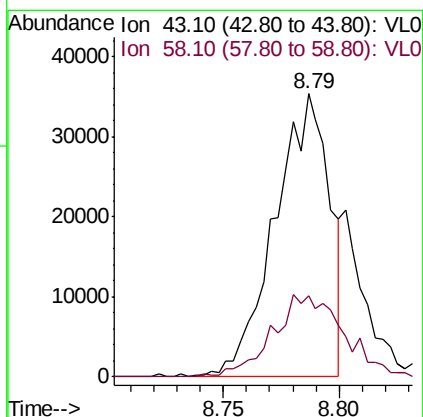
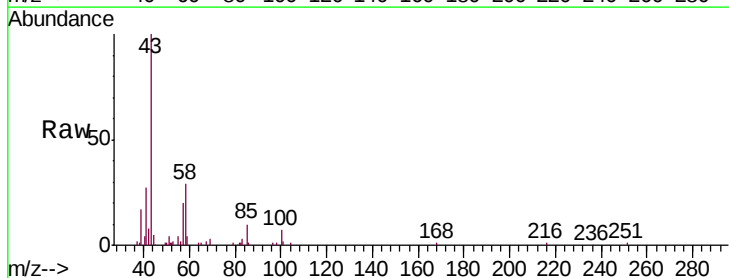
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-HW

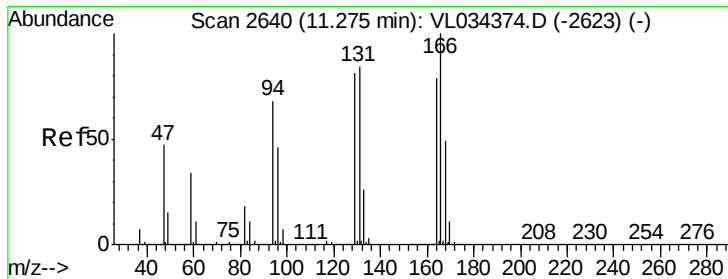
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.1	94.7#
62	18.3	52.3	78.5#



#50
 4-Methyl-2-Pentanone
 Concen: 0.291 ppbv
 RT: 8.79 min Scan# 1866
 Delta R.T. 0.01 min
 Lab File: VL034472.D
 Acq: 9 Dec 2019 20:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.1	27.9	41.9





#52

Tetrachloroethene

Concen: 119.057 ppbv

RT: 11.29 min Scan# 2645

Delta R.T. 0.02 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

IA-HW

Tgt Ion:164 Resp: 8625128

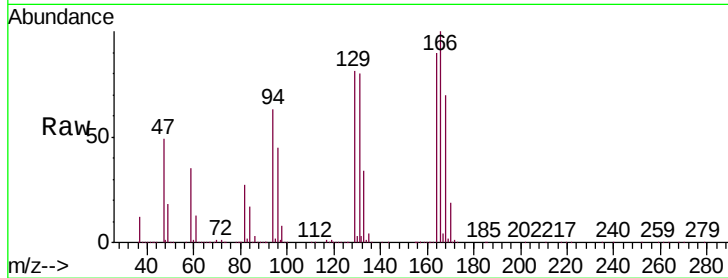
Ion Ratio Lower Upper

164 100

166 111.7 101.7 152.5

129 90.1 82.6 123.8

131 89.1 85.2 127.8

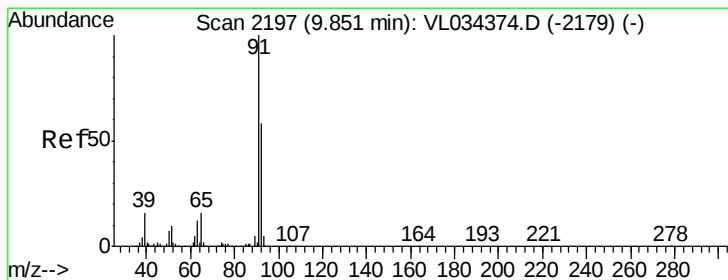
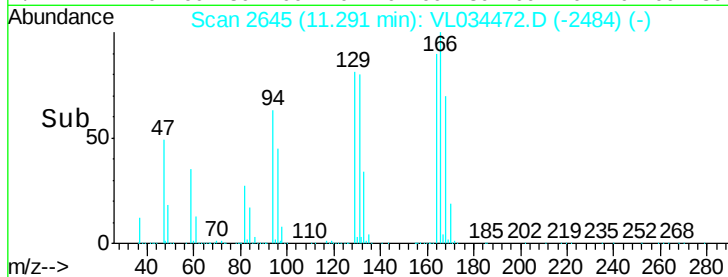
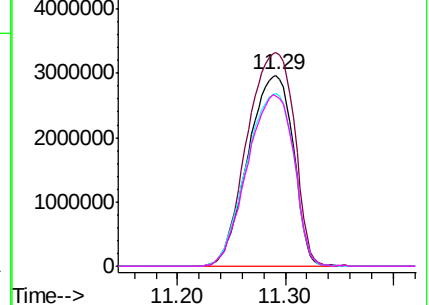


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.531 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034472.D

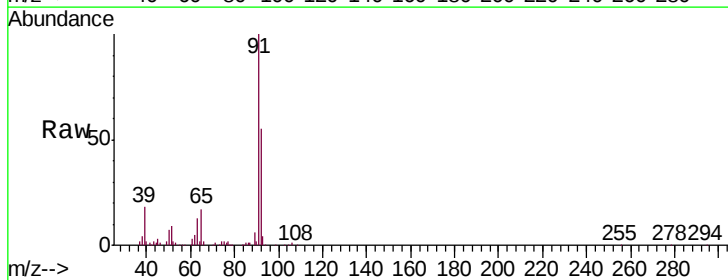
Acq: 9 Dec 2019 20:07

Tgt Ion: 91 Resp: 291119

Ion Ratio Lower Upper

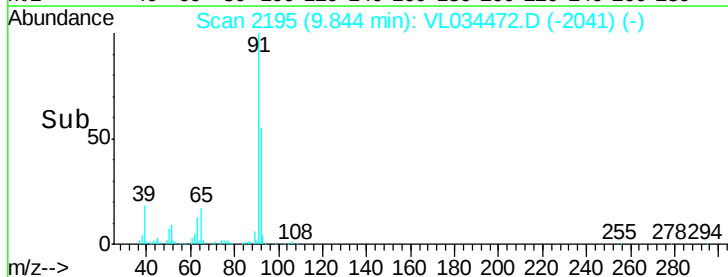
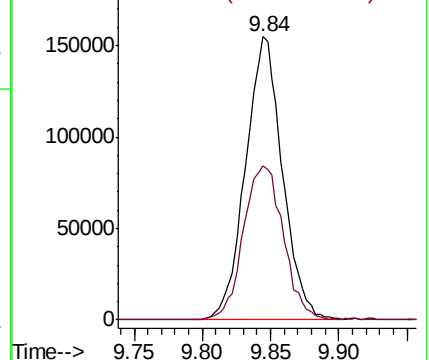
91 100

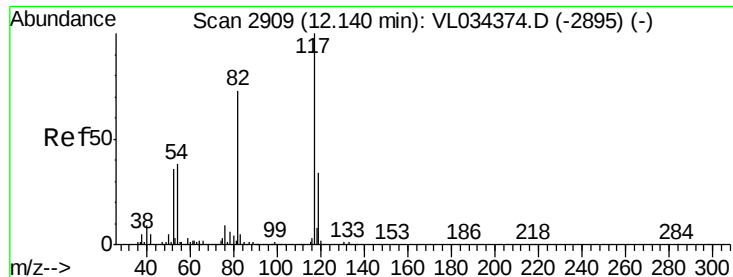
92 59.0 47.9 71.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

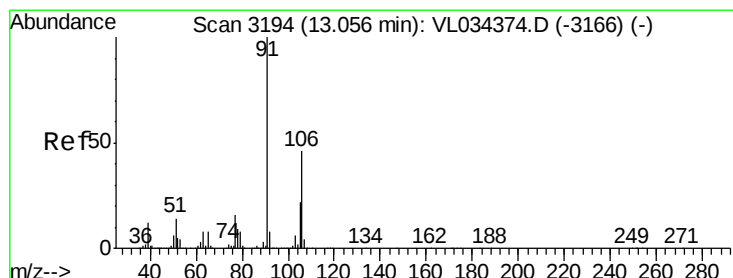
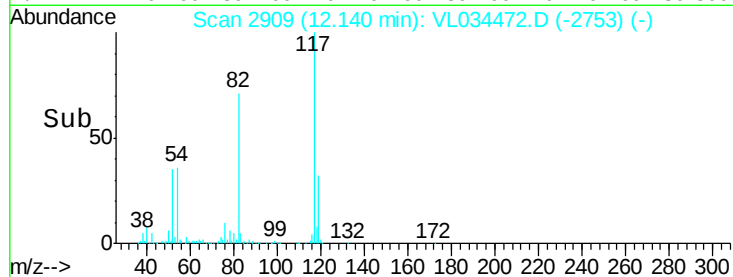
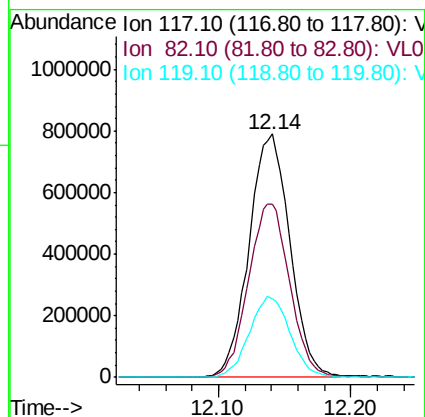
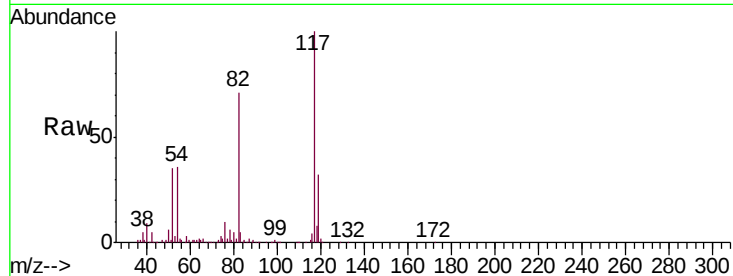




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

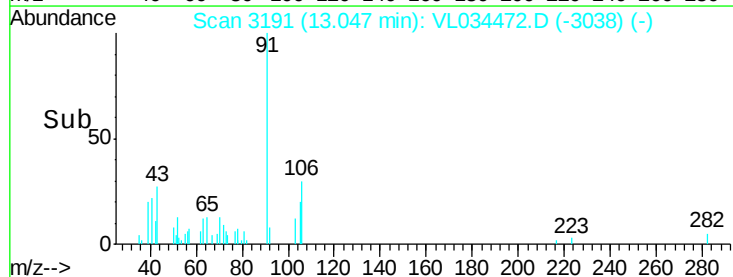
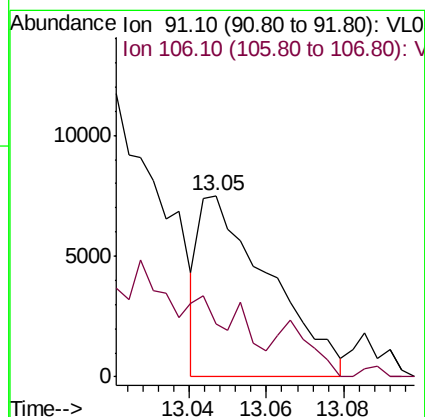
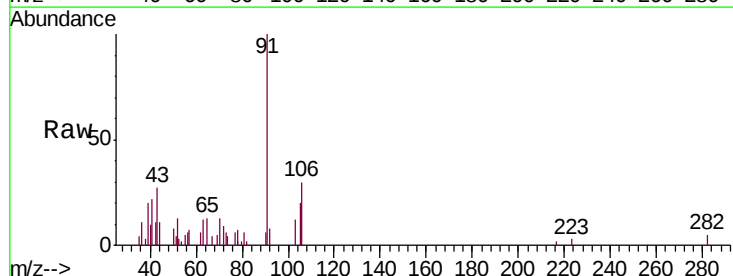
Instrument :
MSVOA_L
ClientSampleId :
IA-HW

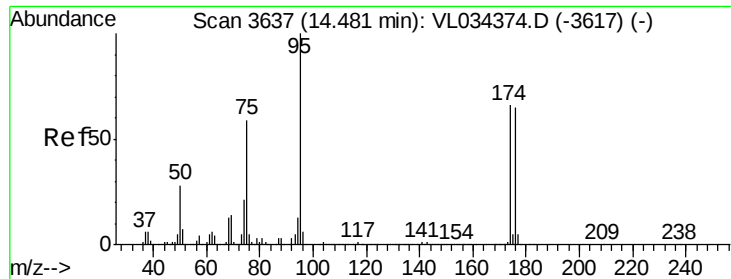
Tgt Ion:117 Resp: 1699777
Ion Ratio Lower Upper
117 100
82 72.0 57.5 86.3
119 33.1 25.4 38.2



#59
m/p-Xylene
Concen: 0.041 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL034472.D
Acq: 9 Dec 2019 20:07

Tgt Ion: 91 Resp: 9417
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.096 ppbv

RT: 14.47 min Scan# 3634

Delta R.T. -0.01 min

Lab File: VL034472.D

Acq: 9 Dec 2019 20:07

Instrument :

MSVOA_L

ClientSampleId :

IA-HW

Tgt Ion: 95 Resp: 1443775

Ion Ratio Lower Upper

95 100

174 64.6 52.2 78.2

175 4.6 3.8 5.8

