

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035532.D
 Acq On : 3 Sep 2020 15:53
 Operator : SY/AP
 Sample : L3898-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Sep 04 06:45:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	974136	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4168249	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4144522	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3074319	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	48516	0.287 ppbv	95
3) Chlorodifluoromethane	2.99	51	94927	0.881 ppbv #	78
4) Chloromethane	3.15	50	32088	0.556 ppbv	94
9) Propene	3.02	41	30163	0.726 ppbv #	81
10) Heptane	8.15	43	56516	0.507 ppbv	96
11) Trichlorofluoromethane	3.96	101	68147	0.277 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	9136	0.049 ppbv #	37
13) Ethanol	3.63	45	3966715	385.186 ppbv	99
15) Acetone	3.86	43	1065141	9.914 ppbv	96
17) tert-Butyl alcohol	4.00	59	84411	0.645 ppbv	96
19) Isopropyl Alcohol	4.00	45	1751126	27.321 ppbv	100
20) Methylene Chloride	4.36	84	727607	9.093 ppbv	97
21) Allyl Chloride	4.38	41	3008	0.060 ppbv #	1
23) Vinyl Acetate	5.08	43	28904	0.210 ppbv #	48
25) Ethyl Acetate	5.70	43	303617	1.600 ppbv #	79
26) Hexane	5.71	57	442326	4.113 ppbv #	54
27) Carbon Disulfide	4.56	76	5083	0.033 ppbv #	57
29) Chloroform	5.77	83	16913	0.077 ppbv	100
30) Cyclohexane	7.15	84	15825	0.137 ppbv #	1
34) 2-Butanone	5.26	43	716228	5.790 ppbv	99
35) Carbon Tetrachloride	7.04	117	8482	0.040 ppbv	87
36) Benzene	6.91	78	117561	0.436 ppbv #	91
37) 1,2-Dichloroethane	6.32	62	11055	0.086 ppbv #	82
39) 1,2-Dichloropropane	7.20	63	755757	8.292 ppbv #	33
41) Tetrahydrofuran	6.34	42	14344	0.219 ppbv #	21
43) Methyl Methacrylate	8.04	69	10293	0.099 ppbv #	1
44) 2,2,4-Trimethylpentane	7.90	57	225789	0.636 ppbv	90
50) 4-Methyl-2-Pentanone	8.78	43	20865	0.116 ppbv #	52
52) Tetrachloroethene	11.25	164	5058	0.032 ppbv	88
53) Toluene	9.83	91	1208337	3.561 ppbv	98
58) Ethyl Benzene	12.74	91	161146	0.377 ppbv	89
59) m/p-Xylene	13.00	91	374011	1.047 ppbv #	80
60) o-Xylene	13.73	91	175052	0.487 ppbv	96
61) Styrene	13.56	104	11819	0.043 ppbv	96
62) Isopropylbenzene	14.71	105	18598	0.032 ppbv	92
64) n-propylbenzene	15.61	120	6989	0.040 ppbv #	1
65) tert-Butylbenzene	16.80	119	25216	0.047 ppbv #	30
72) 4-Ethyltoluene	15.88	105	92464	0.202 ppbv #	95
73) 1,3,5-Trimethylbenzene	16.04	105	80214	0.190 ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	310208	0.668 ppbv #	72
76) 1,4-Dichlorobenzene	17.18	146	21245	0.063 ppbv #	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035532.D
Acq On : 3 Sep 2020 15:53
Operator : SY/AP
Sample : L3898-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Sep 04 06:45:42 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration

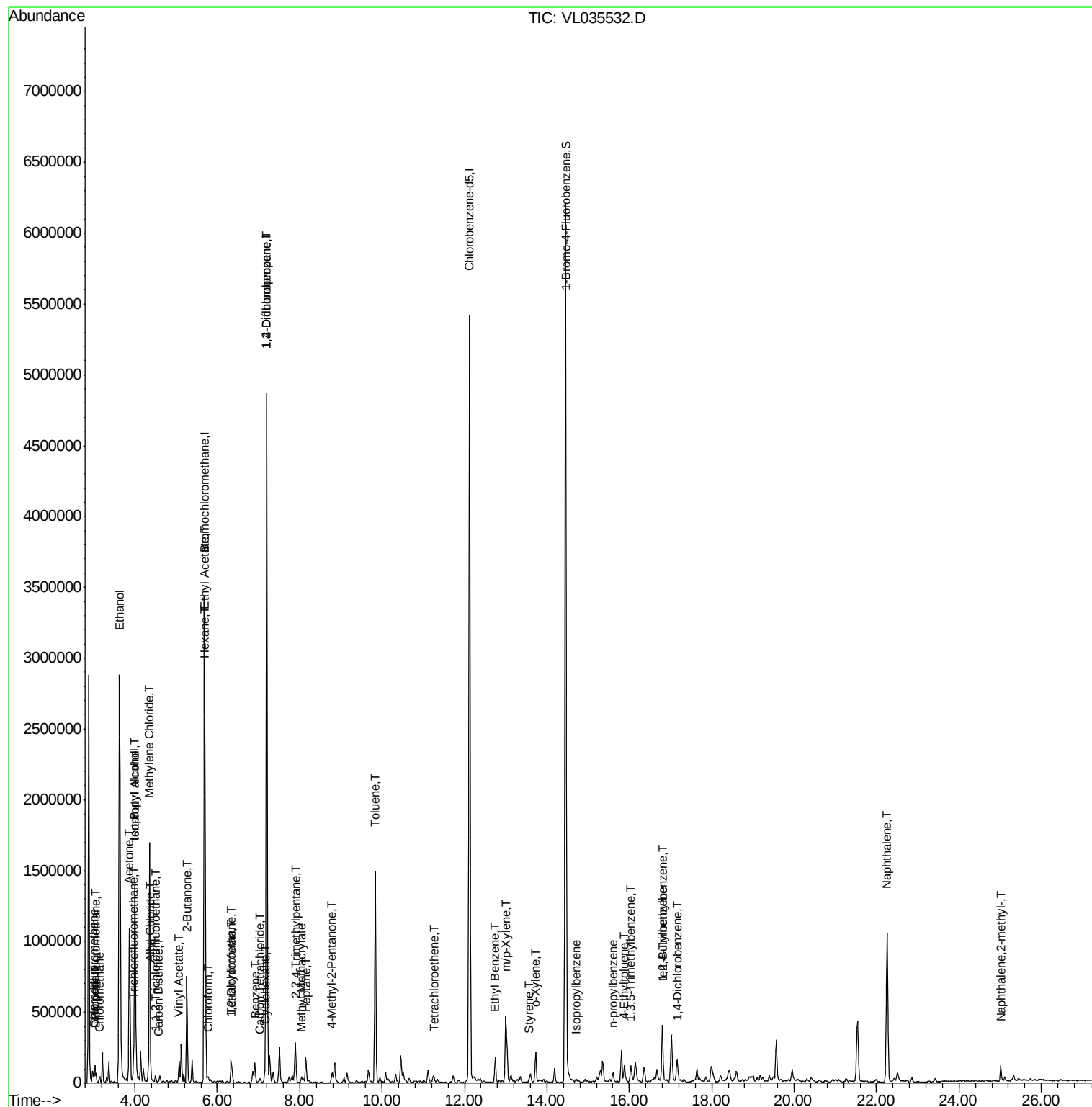
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.26	128	1533352	2.975	ppbv	96
80) Naphthalene,2-methyl-	25.02	142	64775	0.368	ppbv	98

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035532.D
Acq On : 3 Sep 2020 15:53
Operator : SY/AP
Sample : L3898-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Sep 04 06:45:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration

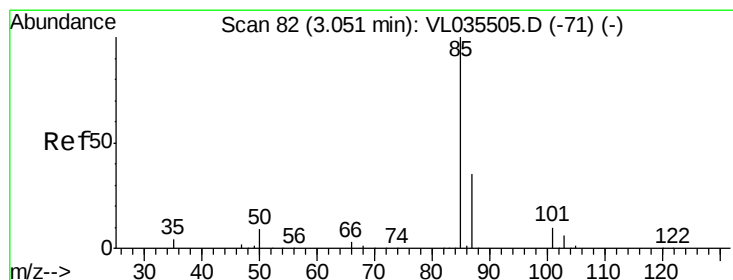
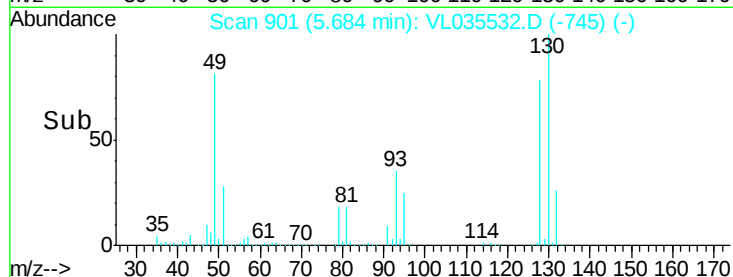
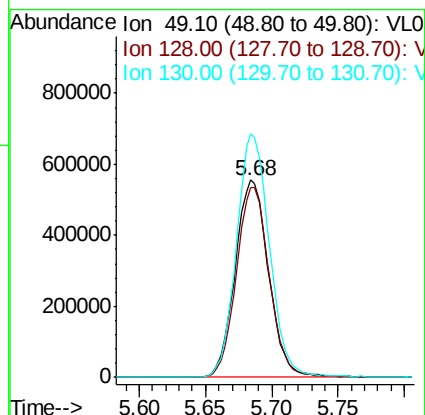
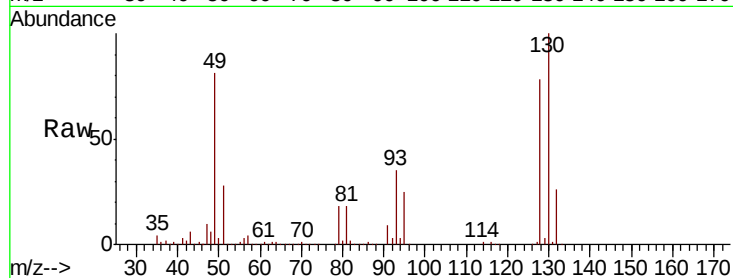




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

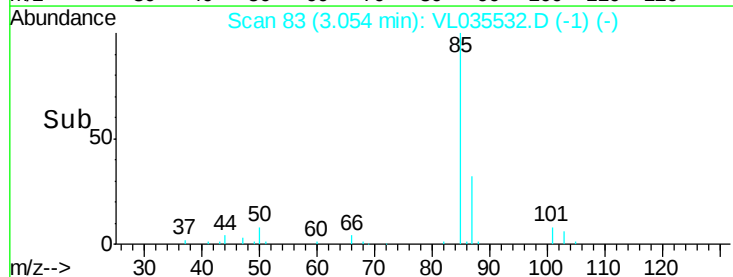
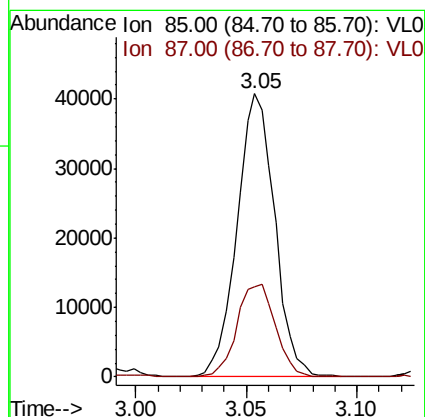
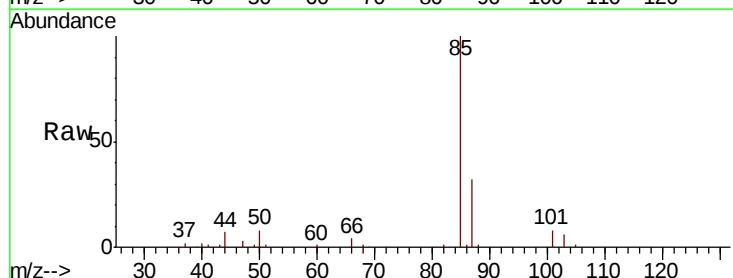
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

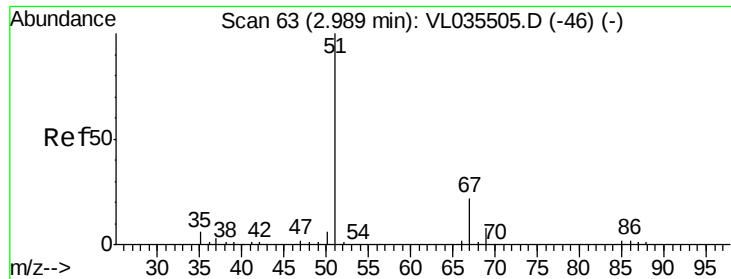
Tot Ion: 49 Resp: 974136
 Ion Ratio Lower Upper
 49 100
 128 95.5 50.0 150.1
 130 122.8 64.4 193.2



#2
 Dichlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Tgt Ion: 85 Resp: 48516
 Ion Ratio Lower Upper
 85 100
 87 31.9 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.881 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

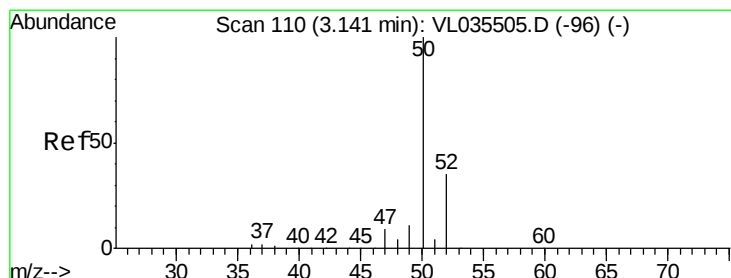
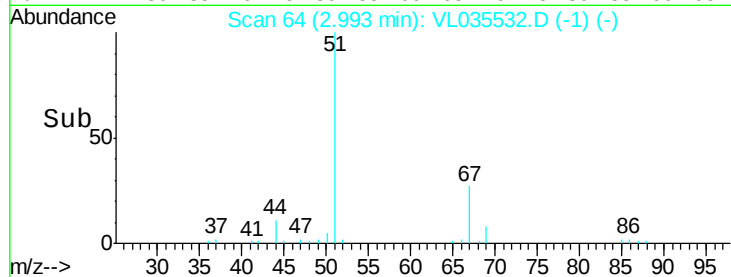
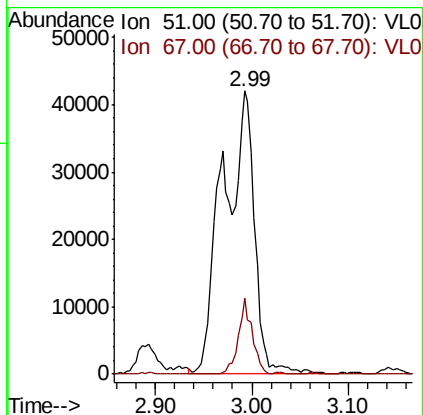
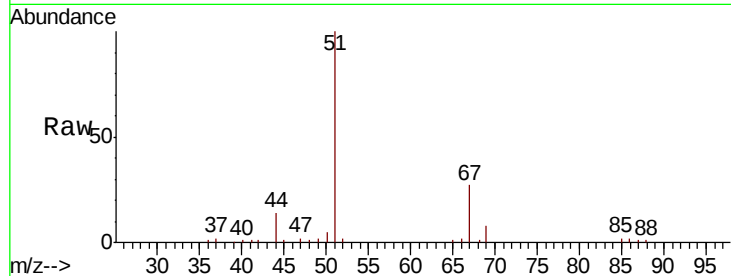
IA-1

Tot Ion: 51 Resp: 94927

Ion Ratio Lower Upper

51 100

67 12.0 17.8 26.8#



#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL035532.D

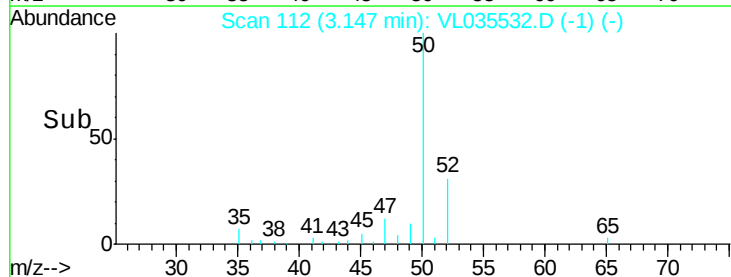
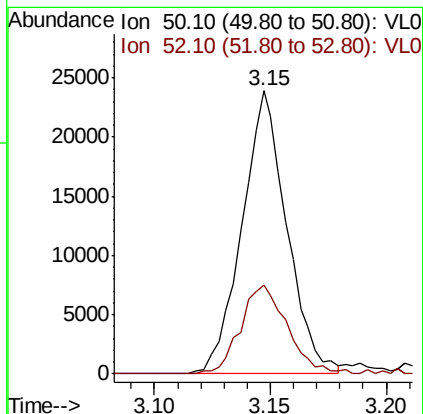
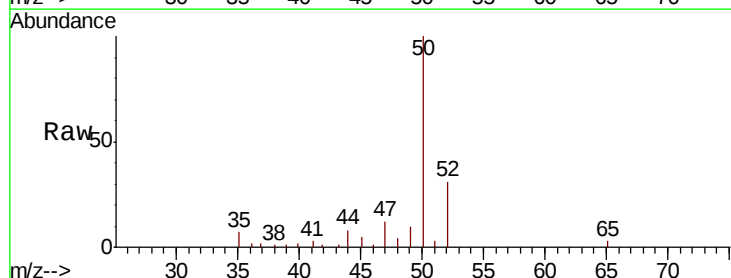
Acq: 3 Sep 2020 15:53

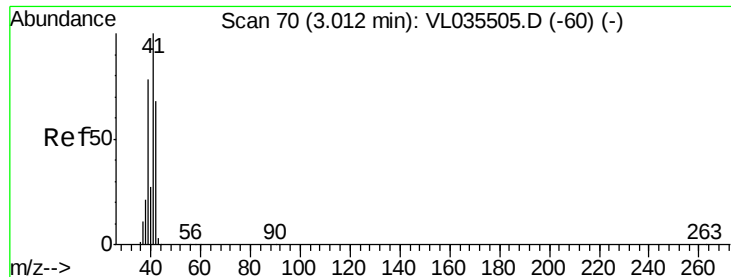
Tgt Ion: 50 Resp: 32088

Ion Ratio Lower Upper

50 100

52 31.2 27.7 41.5





#9

Propene

Concen: 0.726 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

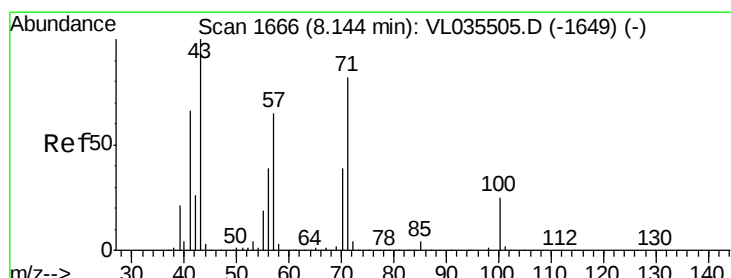
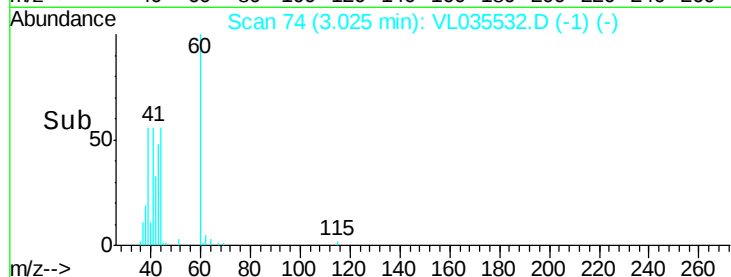
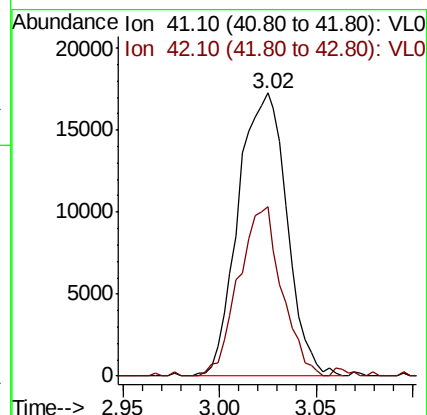
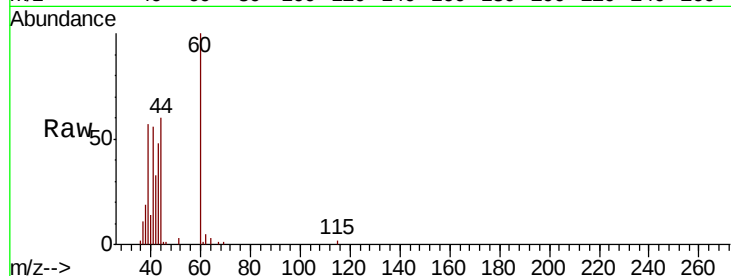
IA-1

Tot Ion: 41 Resp: 30163

Ion Ratio Lower Upper

41 100

42 54.6 56.3 84.5#



#10

Heptane

Concen: 0.507 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL035532.D

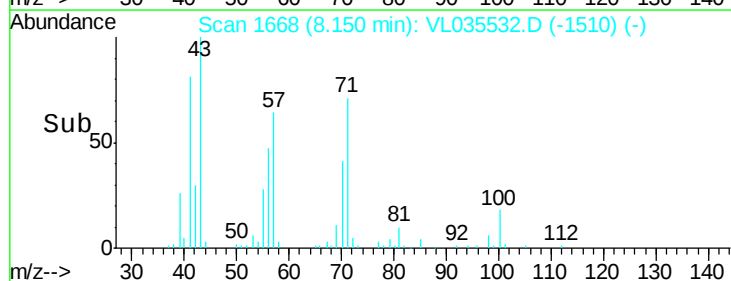
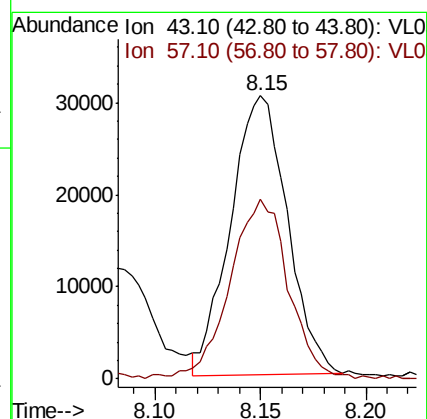
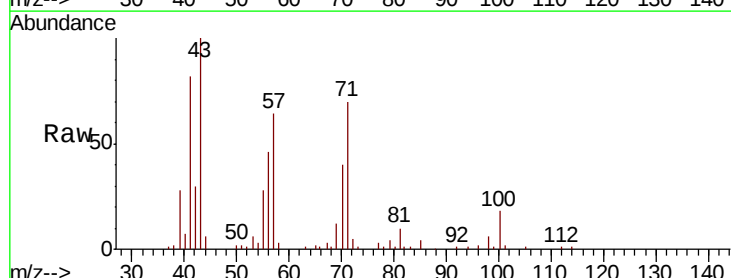
Acq: 3 Sep 2020 15:53

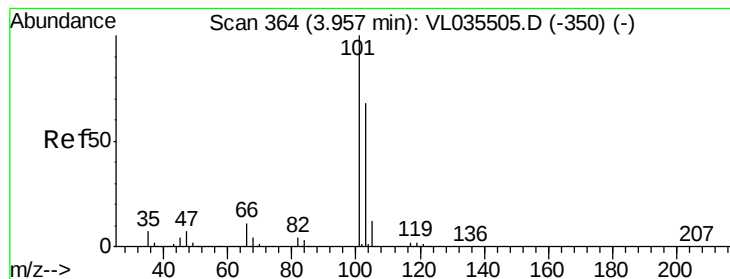
Tgt Ion: 43 Resp: 56516

Ion Ratio Lower Upper

43 100

57 67.1 51.4 77.0





#11

Trichlorofluoromethane

Concen: 0.277 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

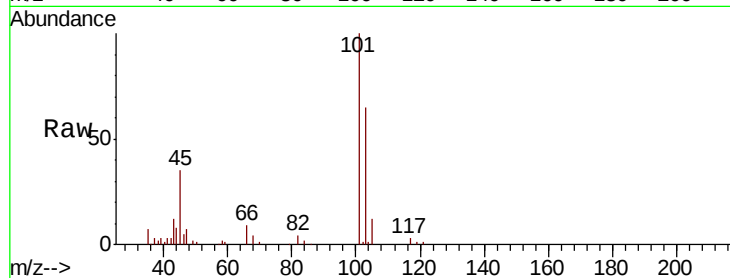
IA-1

Tot Ion:101 Resp: 68147

Ion Ratio Lower Upper

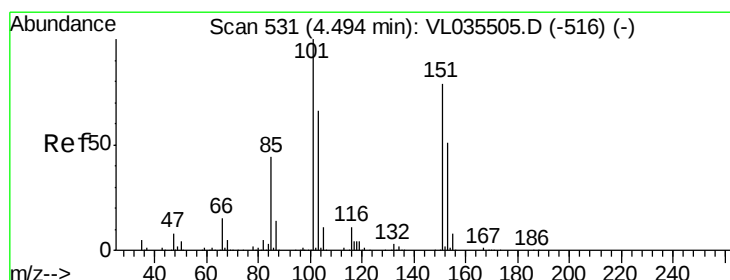
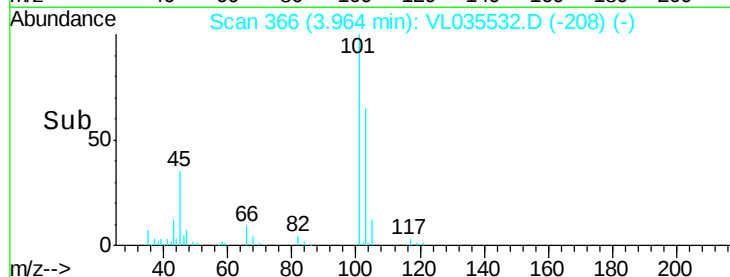
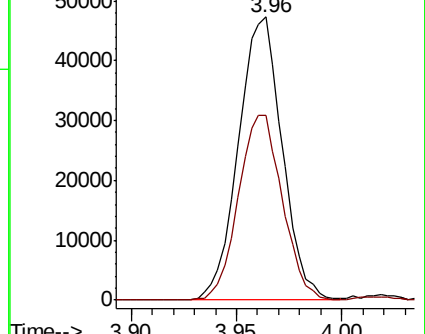
101 100

103 65.4 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL035532.D

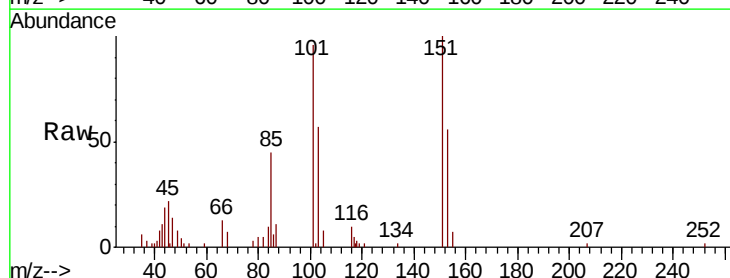
Acq: 3 Sep 2020 15:53

Tgt Ion:101 Resp: 9136

Ion Ratio Lower Upper

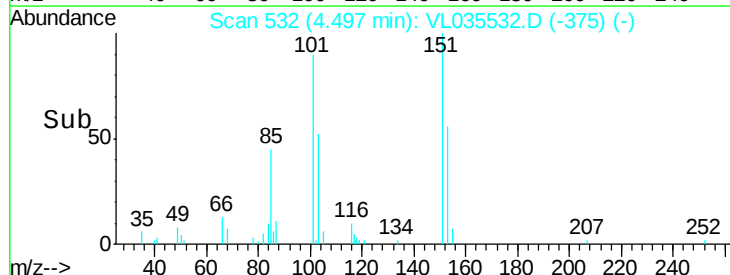
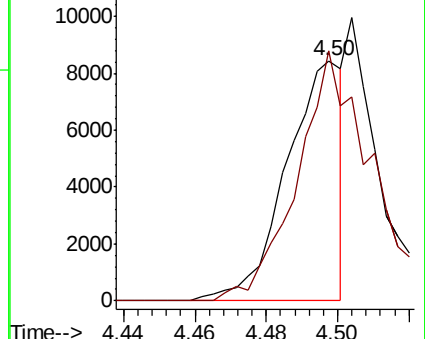
101 100

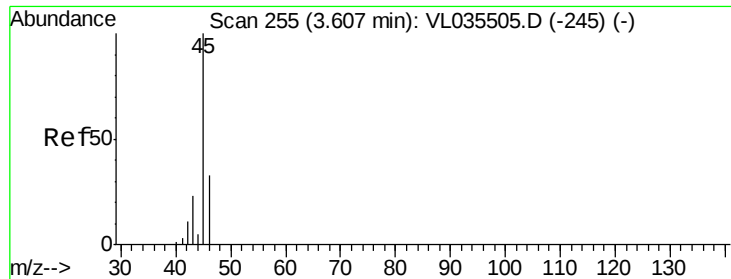
151 134.8 63.5 95.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 385.186 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

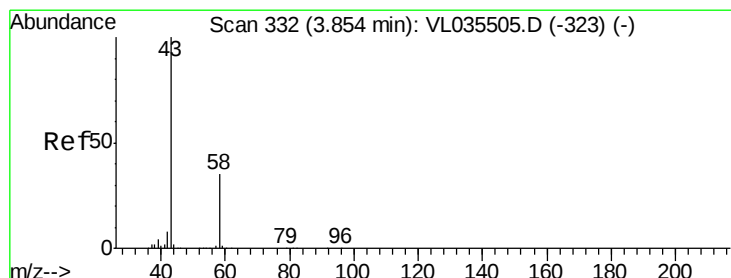
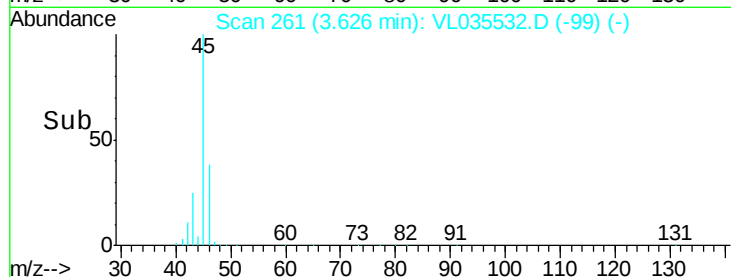
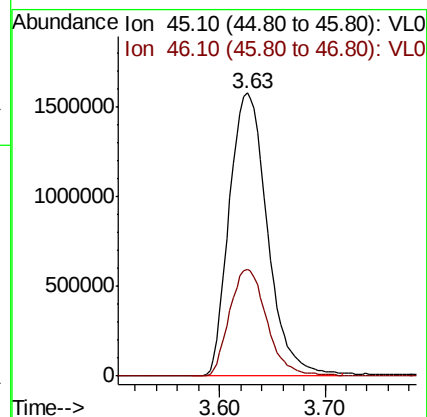
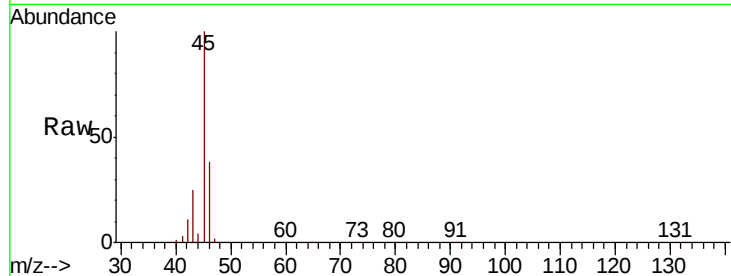
IA-1

Tot Ion: 45 Resp: 3966715

Ion Ratio Lower Upper

45 100

46 37.6 15.2 60.6



#15

Acetone

Concen: 9.914 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035532.D

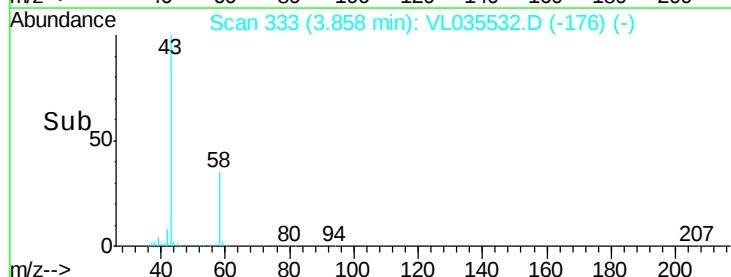
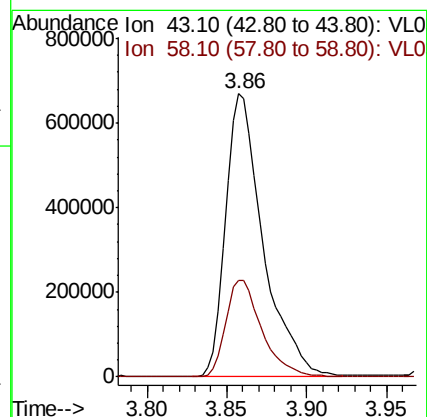
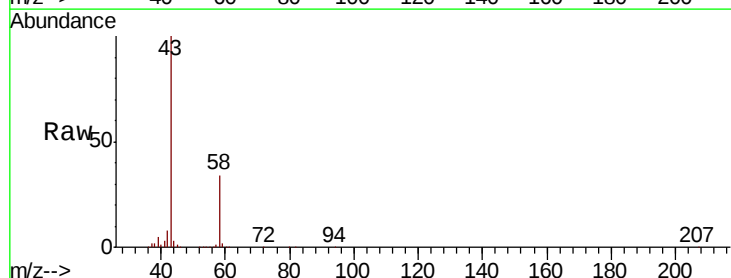
Acq: 3 Sep 2020 15:53

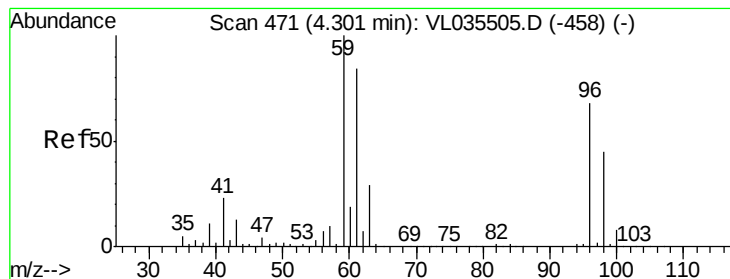
Tgt Ion: 43 Resp: 1065141

Ion Ratio Lower Upper

43 100

58 33.2 28.4 42.6





#17

tert-Butyl alcohol

Concen: 0.645 ppbv

RT: 4.00 min Scan# 376

Delta R.T. -0.31 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

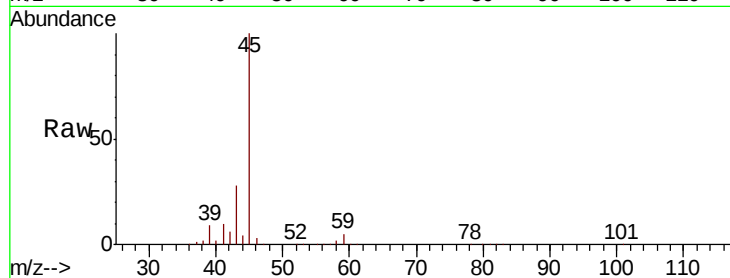
IA-1

Tot Ion: 59 Resp: 84411

Ion Ratio Lower Upper

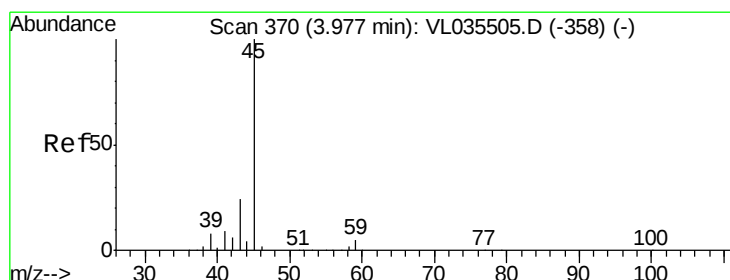
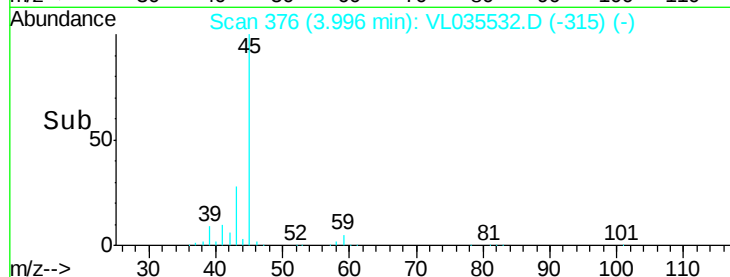
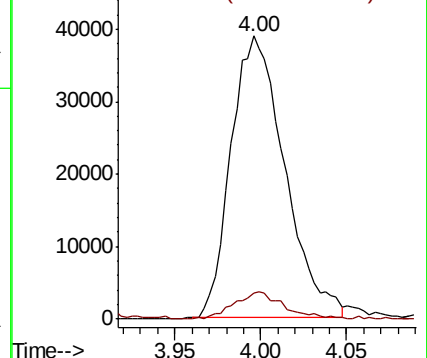
59 100

57 9.1 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 27.321 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.02 min

Lab File: VL035532.D

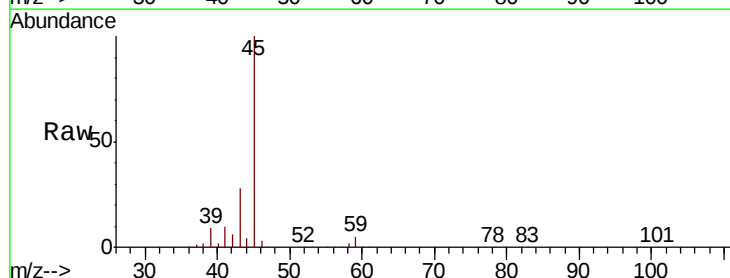
Acq: 3 Sep 2020 15:53

Tgt Ion: 45 Resp: 1751126

Ion Ratio Lower Upper

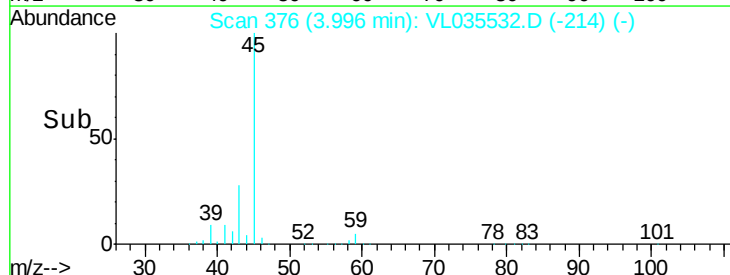
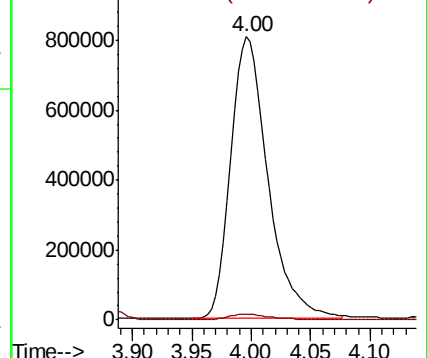
45 100

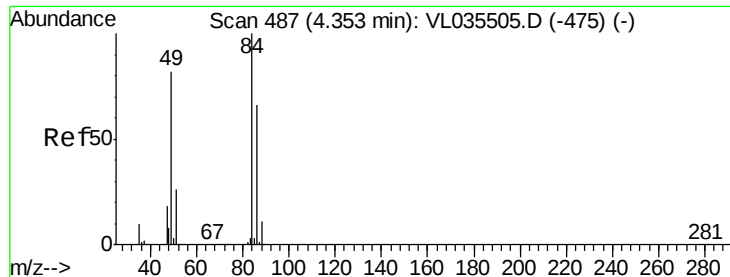
58 2.4 2.0 3.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

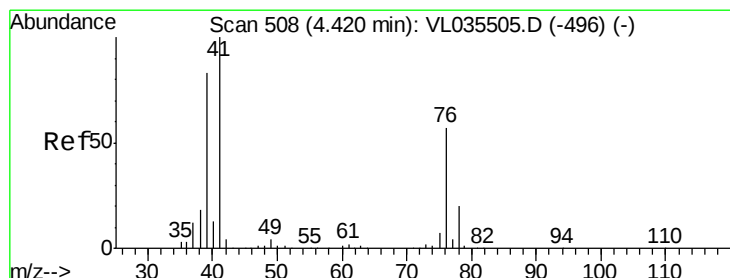
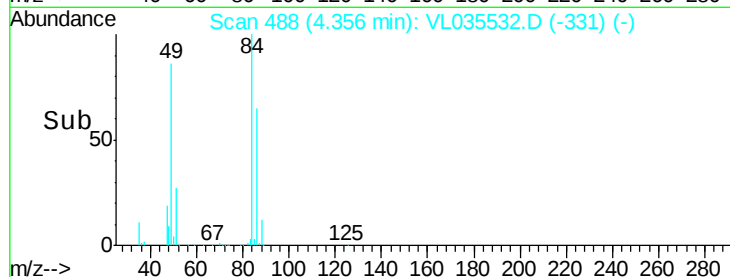
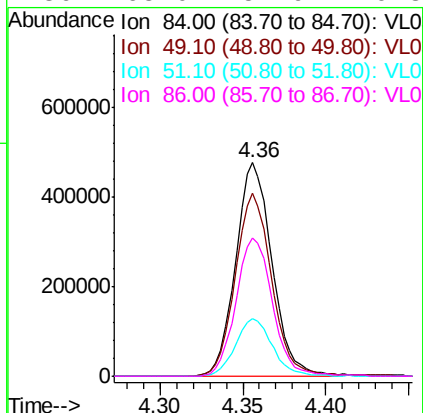
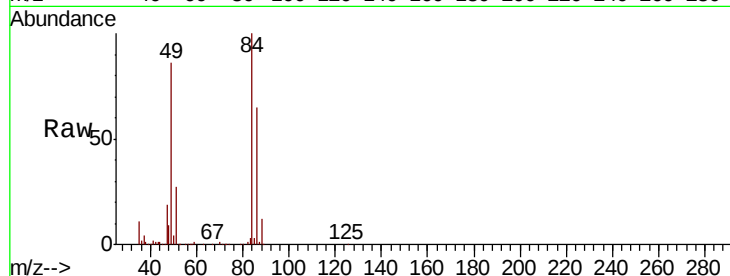




#20
Methylene Chloride
Concen: 9.093 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

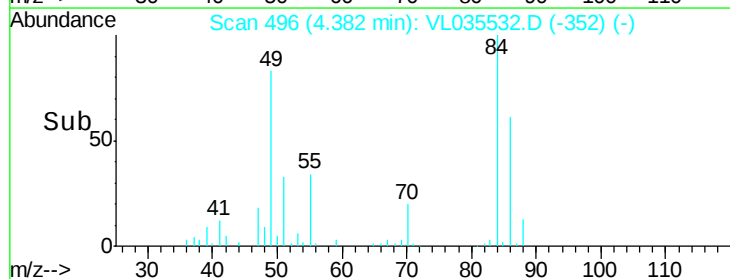
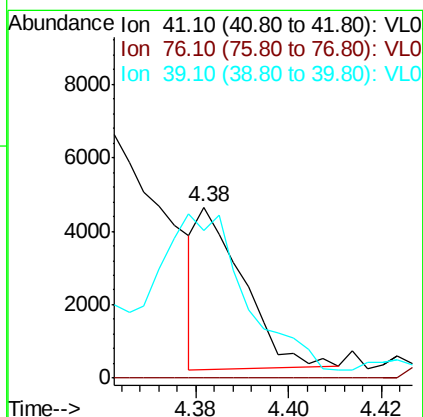
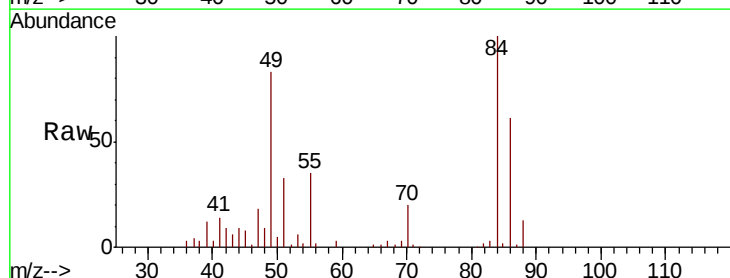
Instrument :
MSVOA_L
ClientSampleId :
IA-1

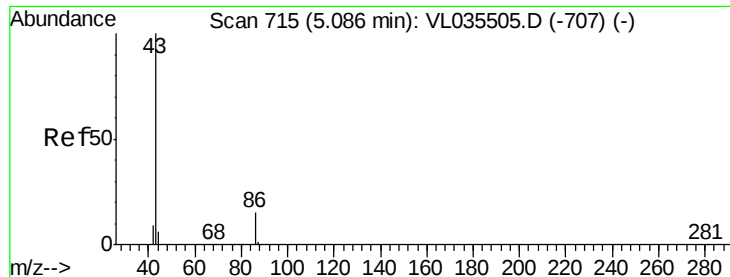
Tot Ion:	84	Resp:	727607
Ion	Ratio	Lower	Upper
84	100		
49	85.5	65.4	98.0
51	26.7	21.5	32.3
86	65.0	52.9	79.3



#21
Allyl Chloride
Concen: 0.060 ppbv
RT: 4.38 min Scan# 496
Delta R.T. -0.04 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

Tgt Ion:	41	Resp:	3008
Ion	Ratio	Lower	Upper
41	100		
76	0.0	46.2	69.2#
39	187.6	67.8	101.6#

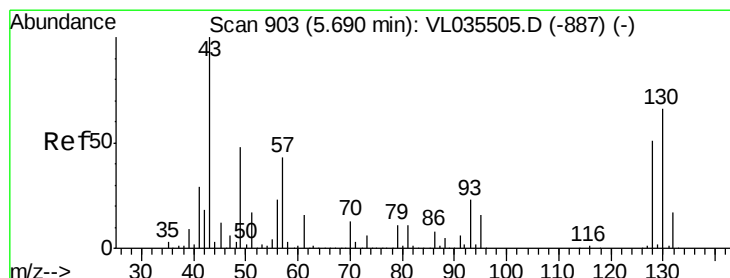
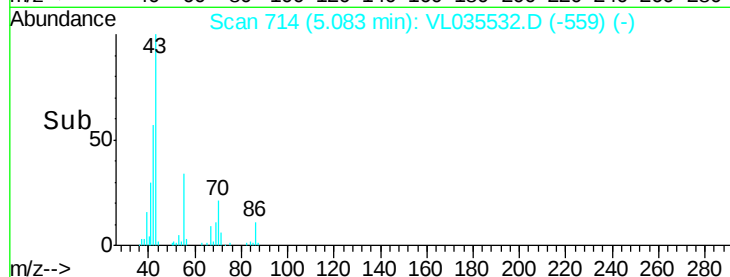
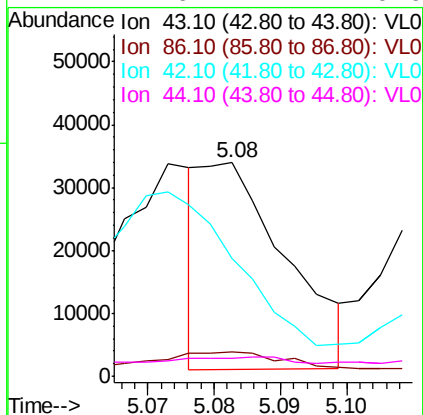
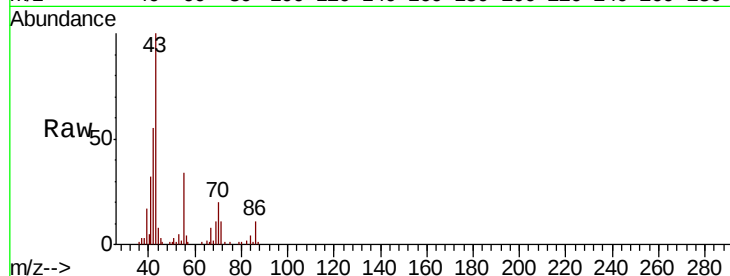




#23
 Vinyl Acetate
 Concen: 0.210 ppbv
 RT: 5.08 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

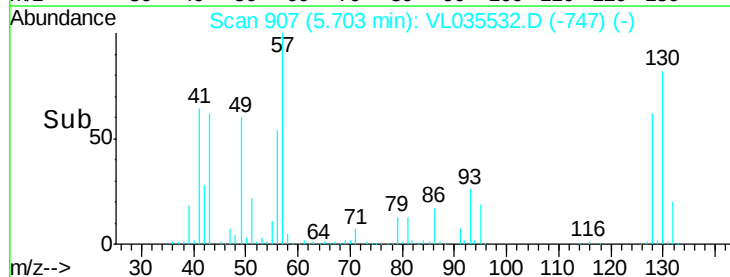
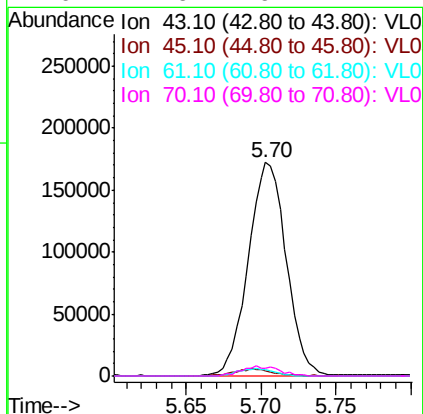
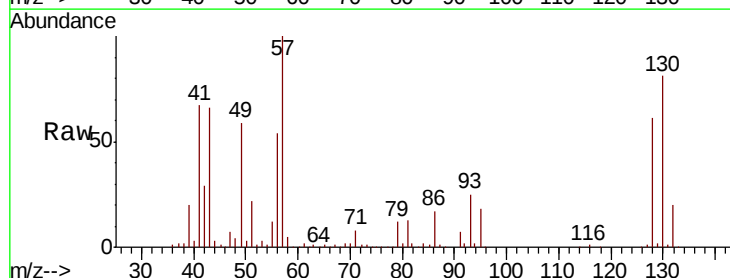
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

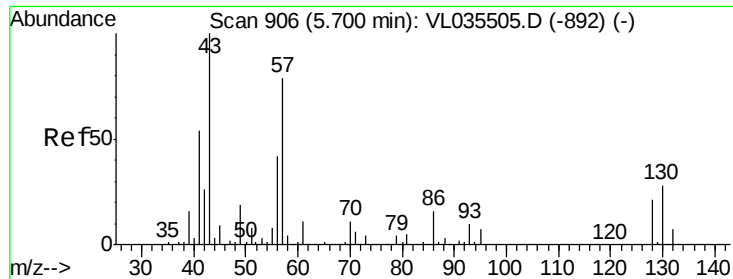
Tot Ion:	43	Resp:	28904
Ion	Ratio	Lower	Upper
43	100		
86	10.8	10.6	16.0
42	60.9	7.5	11.3#
44	2.6	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 1.600 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. 0.01 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Tgt Ion:	43	Resp:	303617
Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.4	12.6#
61	3.3	10.6	16.0#
70	4.6	9.4	14.2#





#26

Hexane

Concen: 4.113 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

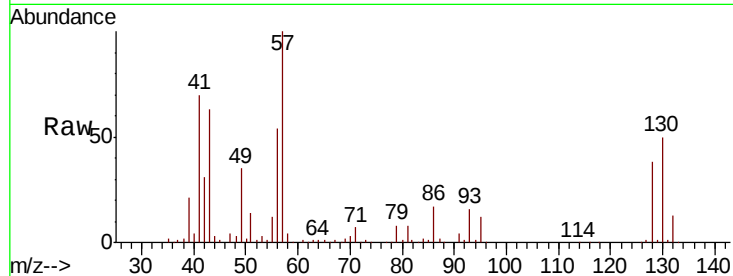
ClientSampleId :

IA-1

Tot Ion: 57 Resp: 442326

Ion Ratio Lower Upper

57	100		
41	70.5	55.9	83.9
43	68.9	141.8	212.8#
56	54.5	41.8	62.8

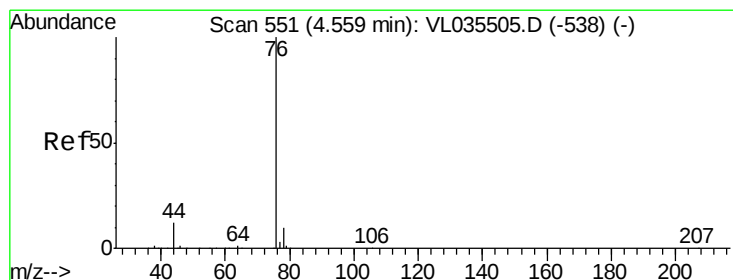
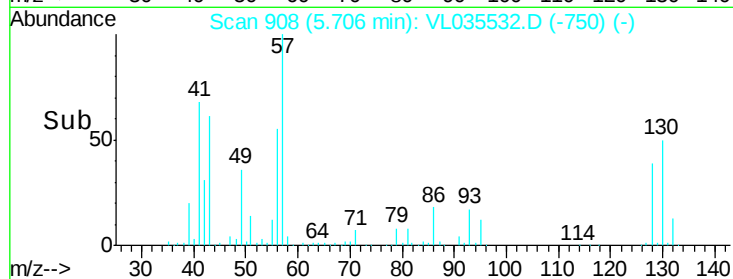
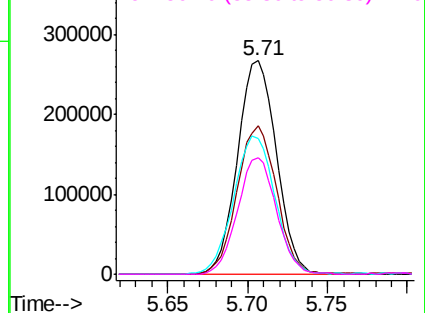


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.033 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.01 min

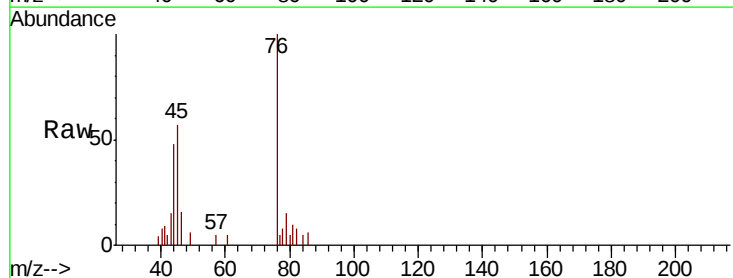
Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Tgt Ion: 76 Resp: 5083

Ion Ratio Lower Upper

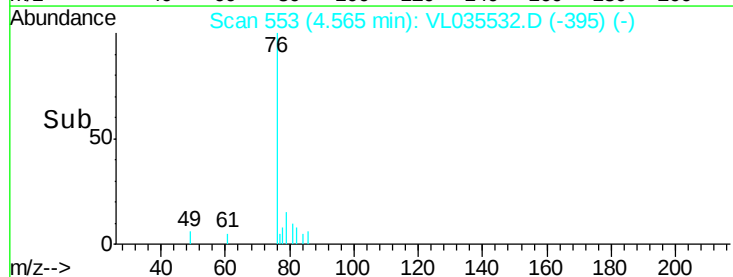
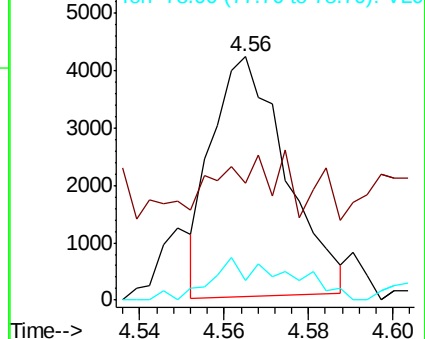
76	100		
44	32.0	9.3	13.9#
78	21.3	7.8	11.6#

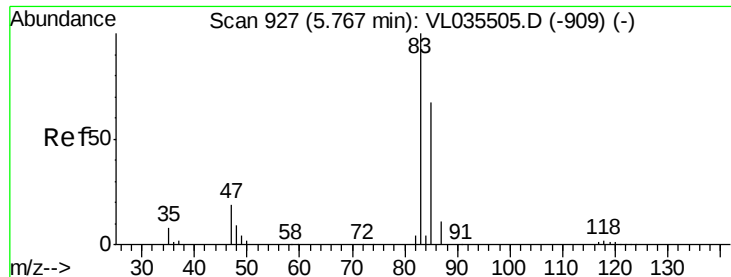


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

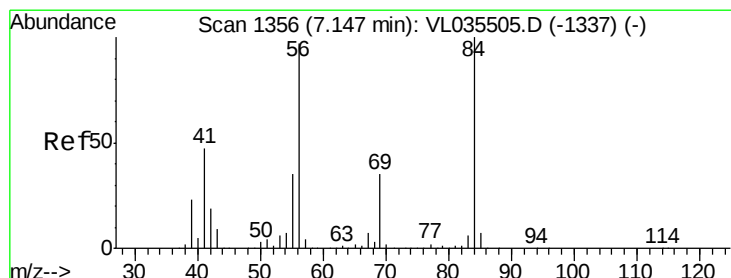
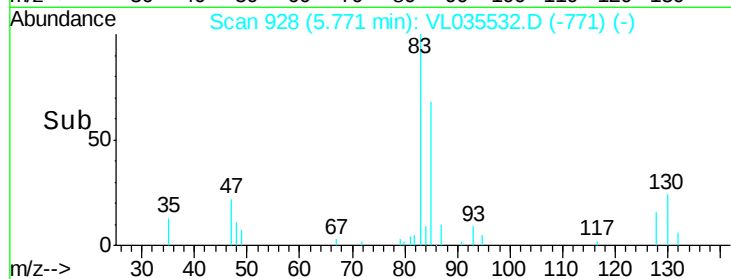
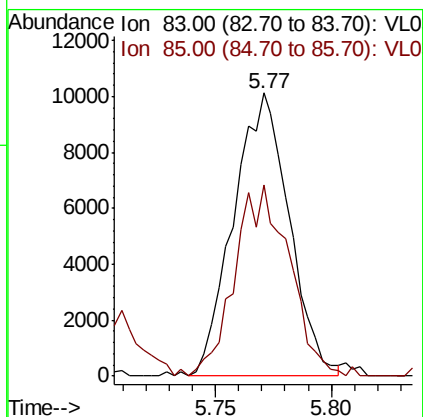
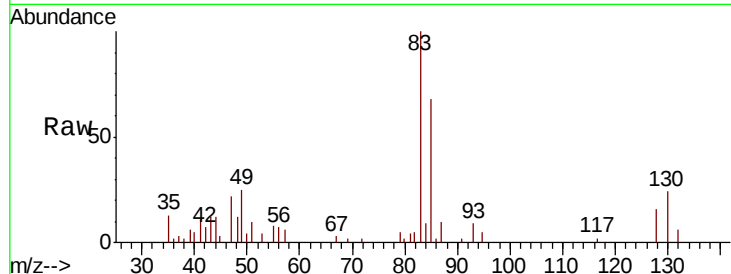




#29
Chloroform
Concen: 0.077 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.00 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

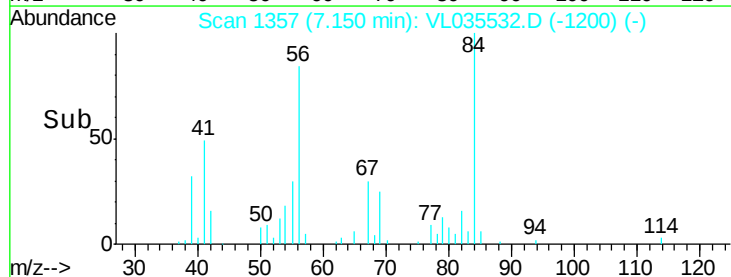
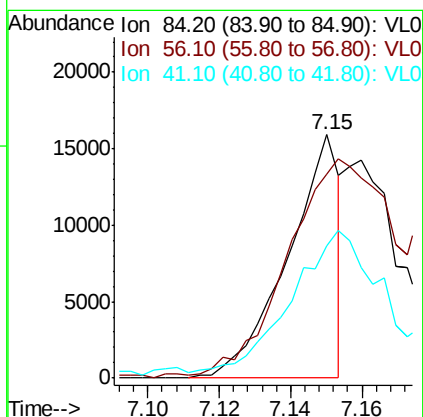
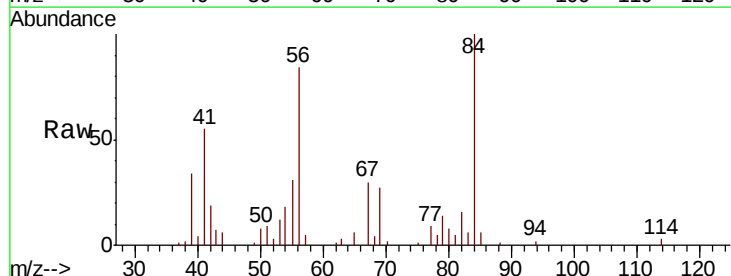
Instrument :
MSVOA_L
ClientSampleId :
IA-1

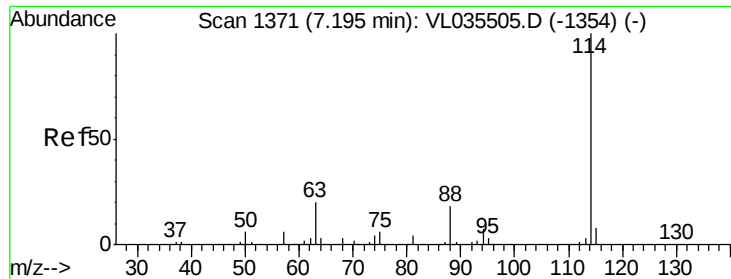
Tot Ion: 83 Resp: 16913
Ion Ratio Lower Upper
83 100
85 67.7 53.9 80.9



#30
Cyclohexane
Concen: 0.137 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

Tgt Ion: 84 Resp: 15825
Ion Ratio Lower Upper
84 100
56 0.0 80.1 120.1#
41 117.4 38.1 57.1#

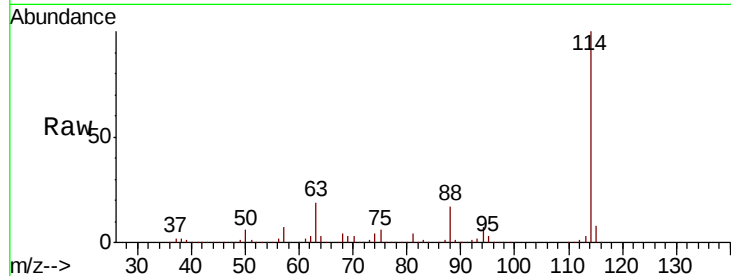




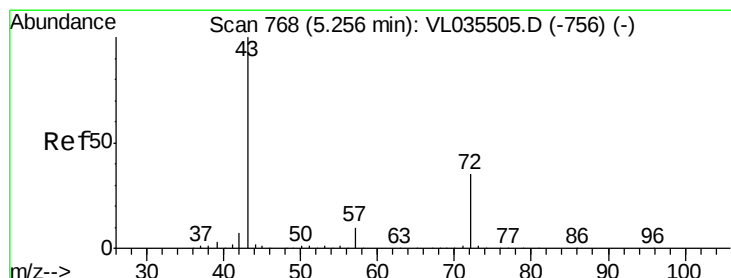
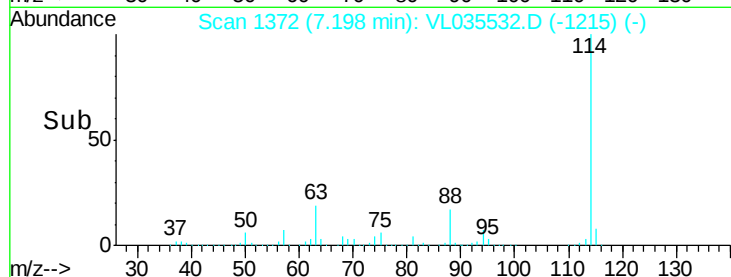
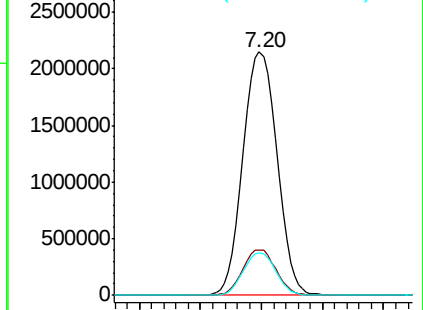
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1

Tot Ion:114 Resp: 4168249
 Ion Ratio Lower Upper
 114 100
 63 18.2 14.7 22.1
 88 16.6 13.4 20.2

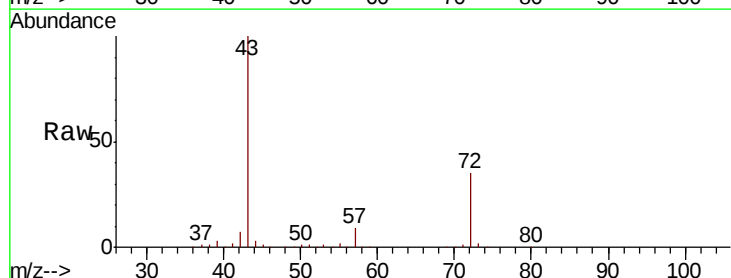


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

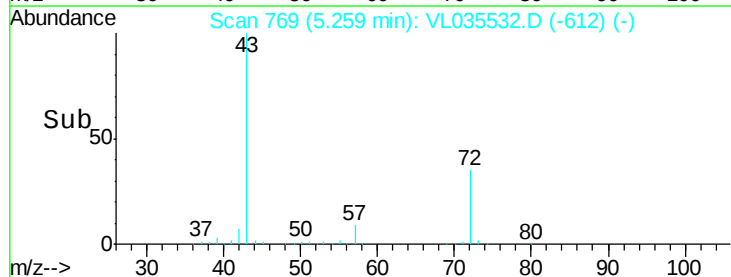
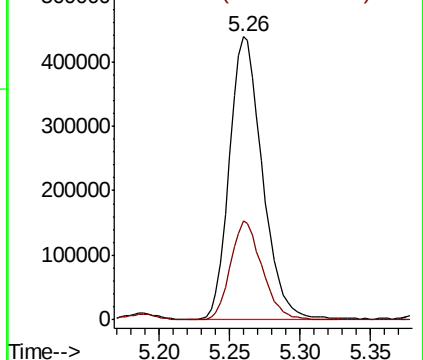


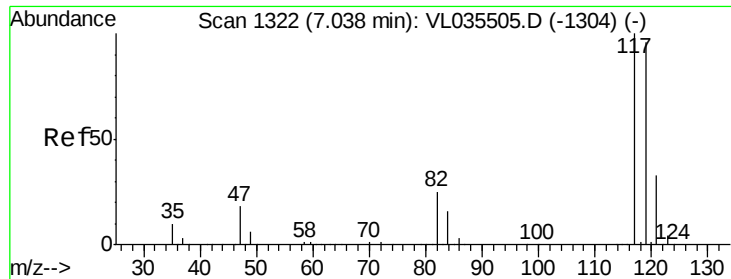
#34
 2-Butanone
 Concen: 5.790 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Tgt Ion: 43 Resp: 716228
 Ion Ratio Lower Upper
 43 100
 72 34.1 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.040 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

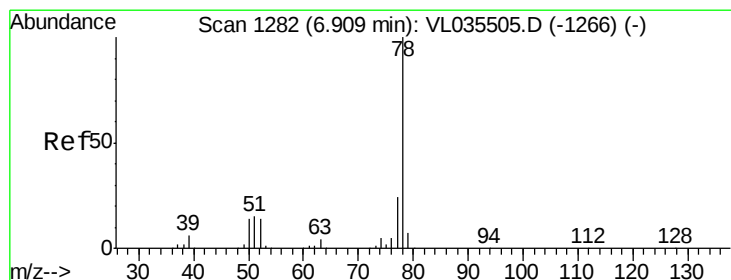
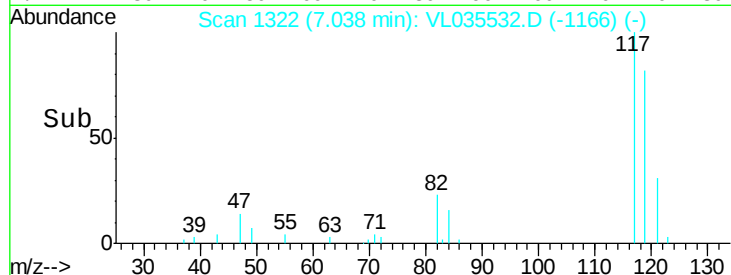
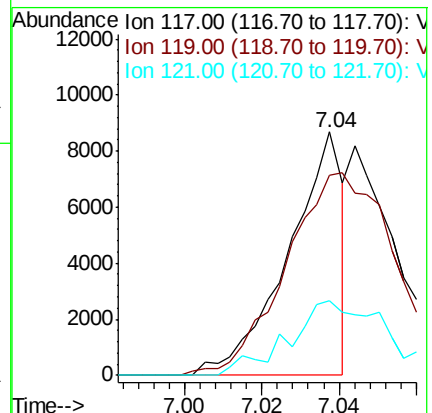
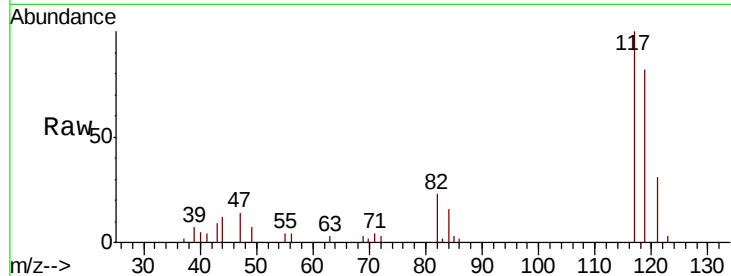
Tot Ion:117 Resp: 8482

Ion Ratio Lower Upper

117 100

119 80.2 77.2 115.8

121 30.7 26.1 39.1



#36

Benzene

Concen: 0.436 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

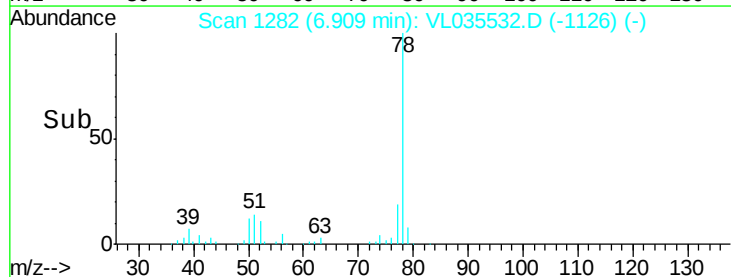
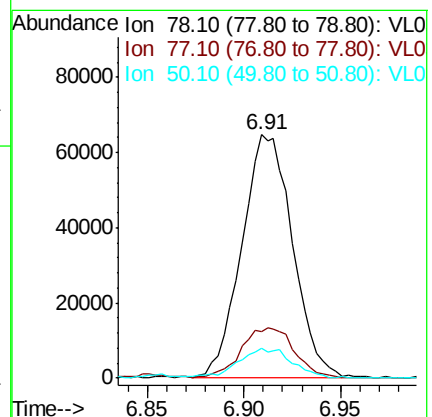
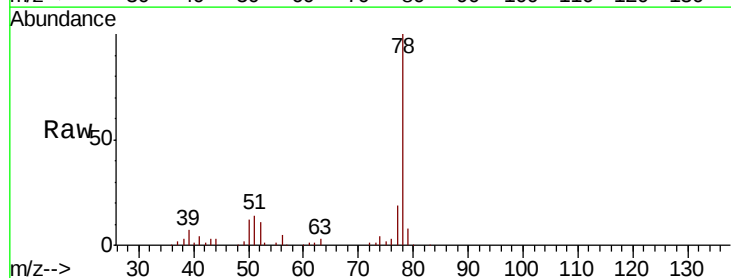
Tgt Ion: 78 Resp: 117561

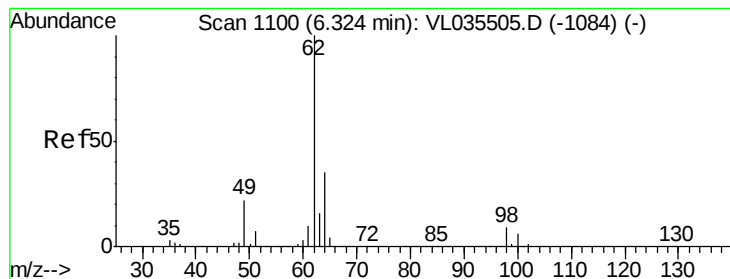
Ion Ratio Lower Upper

78 100

77 18.9 19.3 28.9#

50 11.6 11.0 16.6





#37

1,2-Dichloroethane

Concen: 0.086 ppbv

RT: 6.32 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

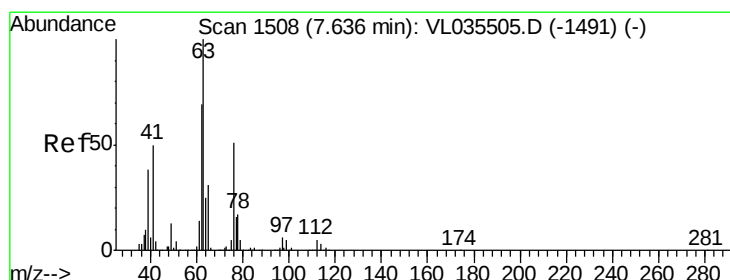
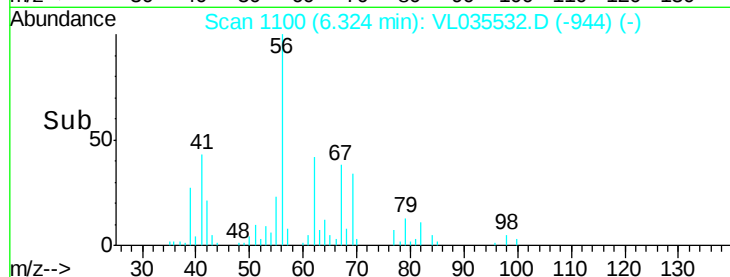
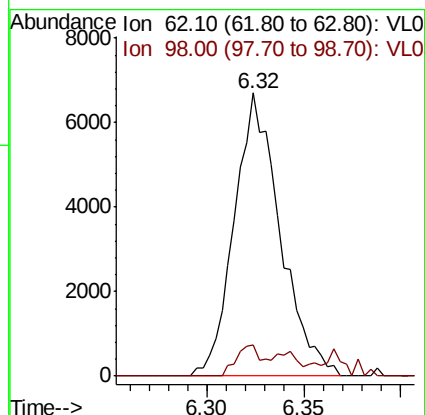
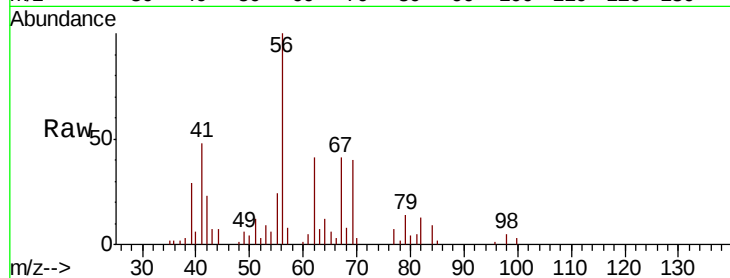
IA-1

Tot Ion: 62 Resp: 11055

Ion Ratio Lower Upper

62 100

98 15.7 7.4 11.0#



#39

1,2-Dichloropropane

Concen: 8.292 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.44 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

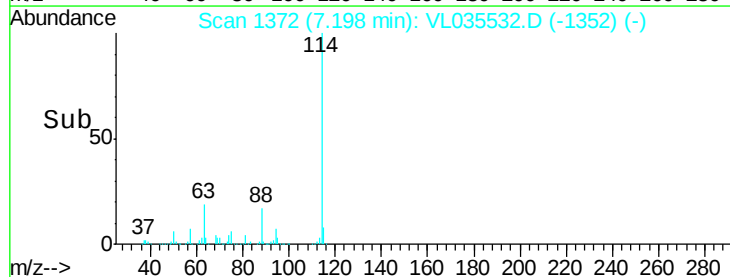
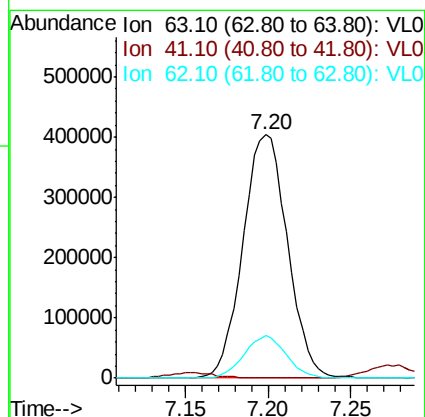
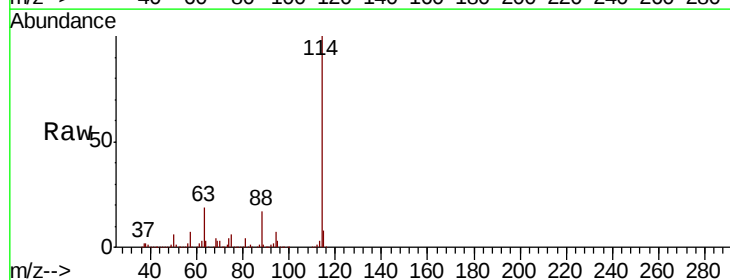
Tgt Ion: 63 Resp: 755757

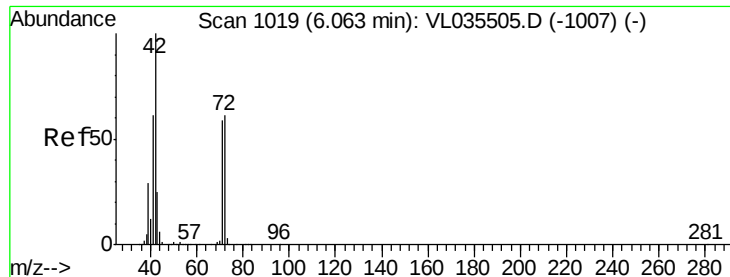
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 17.3 55.4 83.0#





#41

Tetrahydrofuran

Concen: 0.219 ppbv

RT: 6.34 min Scan# 1105

Delta R.T. 0.28 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

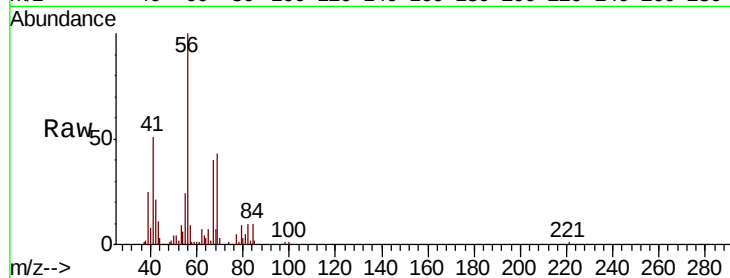
Tot Ion: 42 Resp: 14344

Ion Ratio Lower Upper

42 100

72 0.0 48.6 73.0#

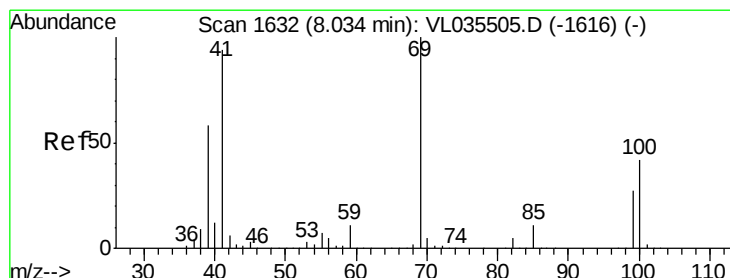
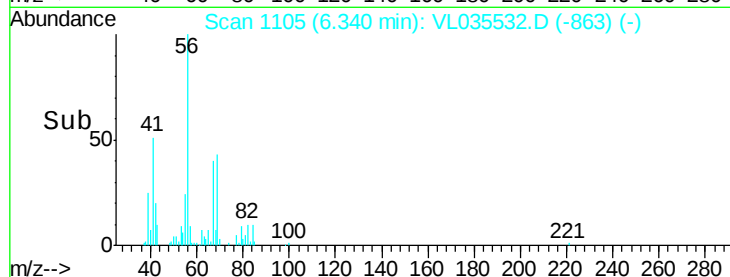
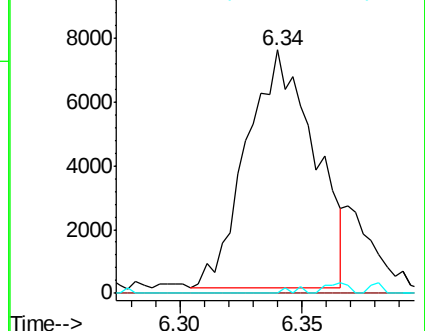
71 0.0 46.1 69.1#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 0.099 ppbv

RT: 8.04 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

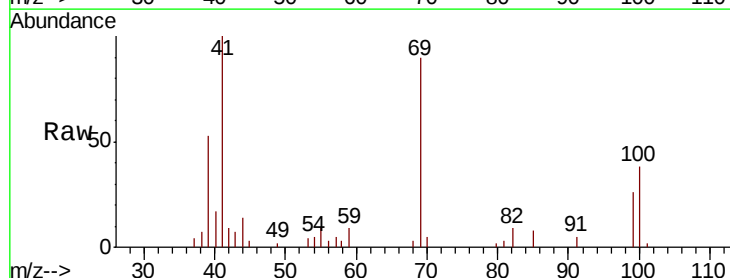
Tgt Ion: 69 Resp: 10293

Ion Ratio Lower Upper

69 100

41 222.8 76.6 114.8#

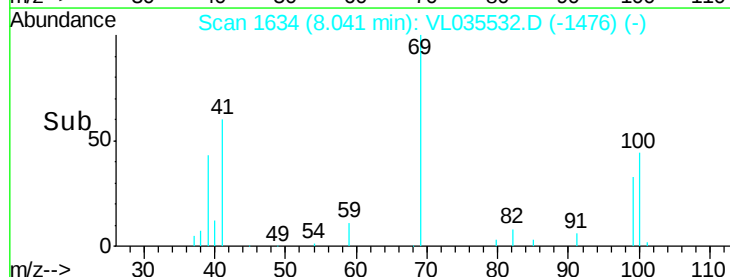
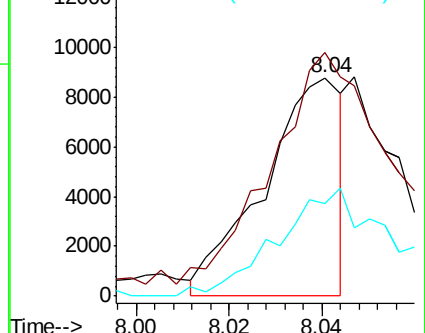
100 0.0 33.8 50.6#

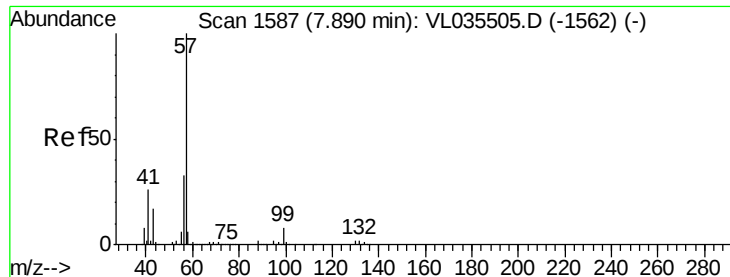


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

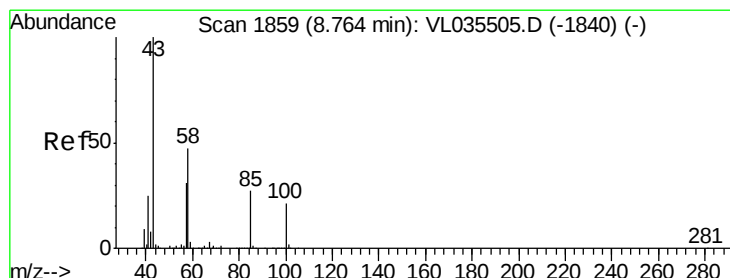
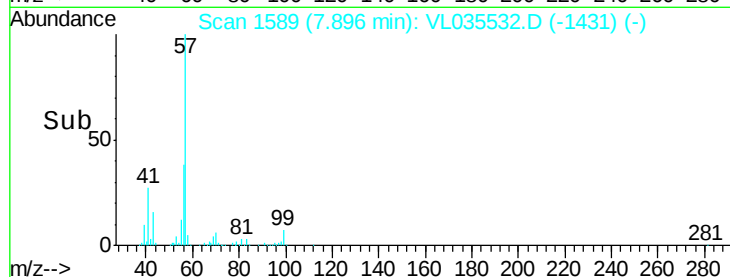
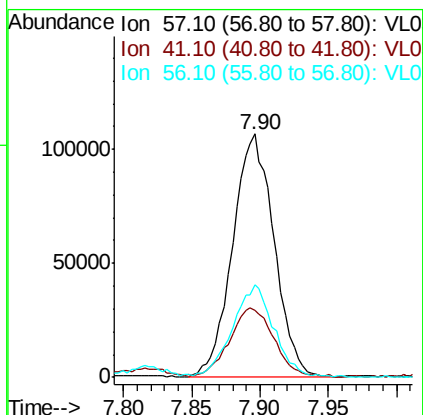
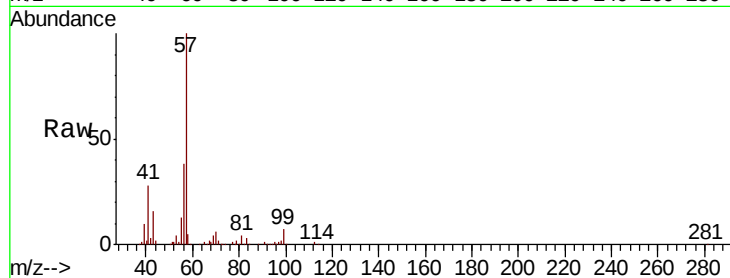




#44
 2,2,4-Trimethylpentane
 Concen: 0.636 ppbv
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.01 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

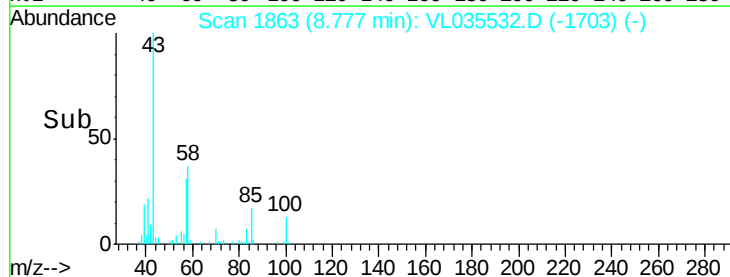
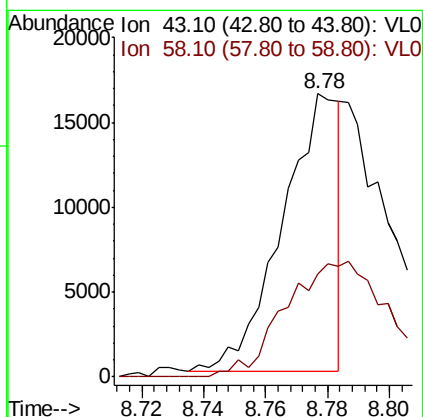
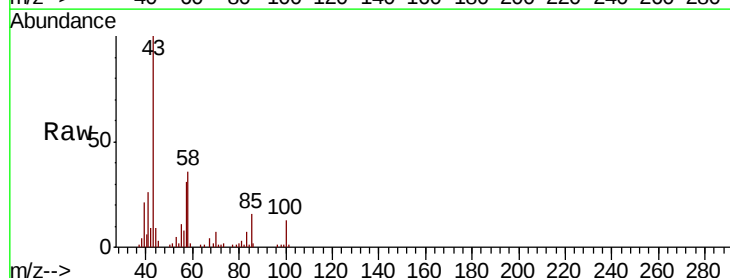
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

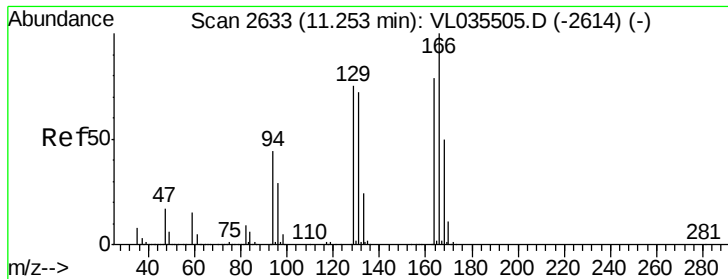
Tot Ion	57	Resp	225789
Ion	Ratio	Lower	Upper
57	100		
41	30.3	20.5	30.7
56	37.3	25.3	37.9



#50
 4-Methyl-2-Pentanone
 Concen: 0.116 ppbv
 RT: 8.78 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Tgt Ion	43	Resp	20865
Ion	Ratio	Lower	Upper
43	100		
58	79.0	37.4	56.0#





#52

Tetrachloroethene

Concen: 0.032 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion:164 Resp: 5058

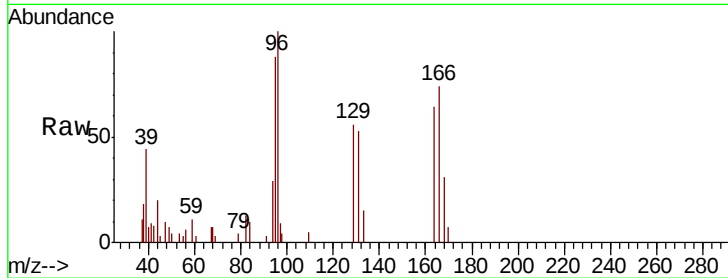
Ion Ratio Lower Upper

164 100

166 110.5 100.9 151.3

129 81.4 75.3 112.9

131 83.2 73.0 109.4

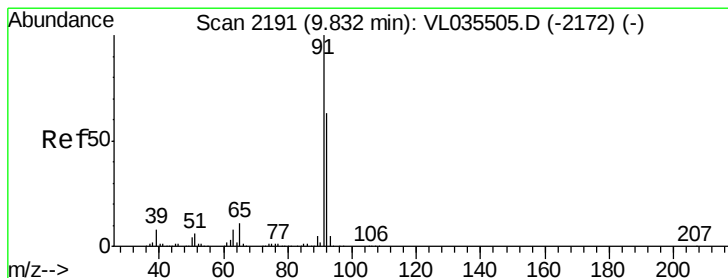
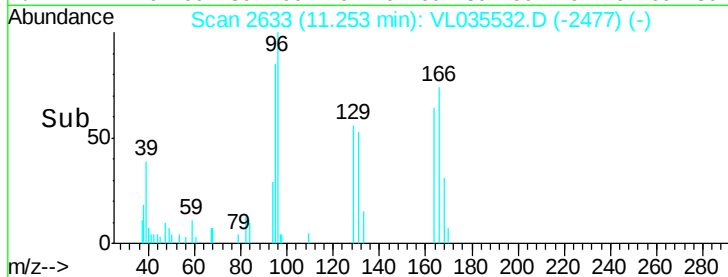
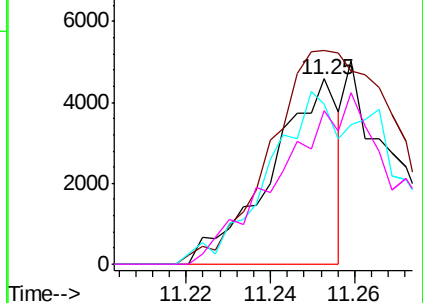


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.561 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL035532.D

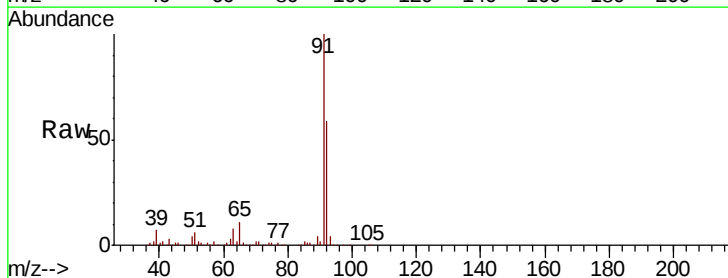
Acq: 3 Sep 2020 15:53

Tgt Ion: 91 Resp: 1208337

Ion Ratio Lower Upper

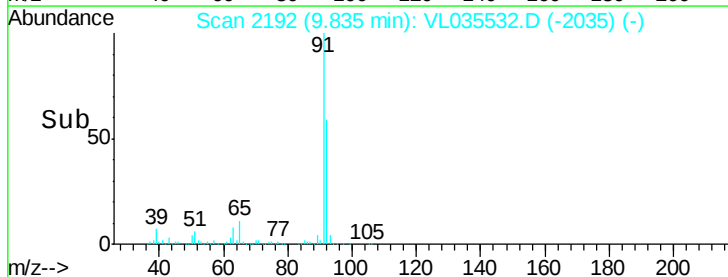
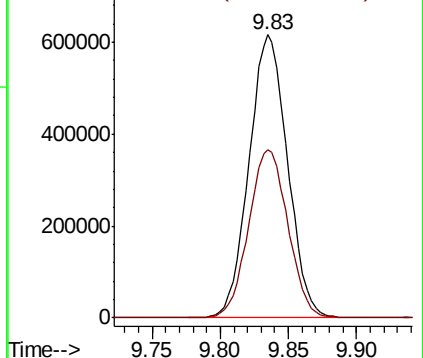
91 100

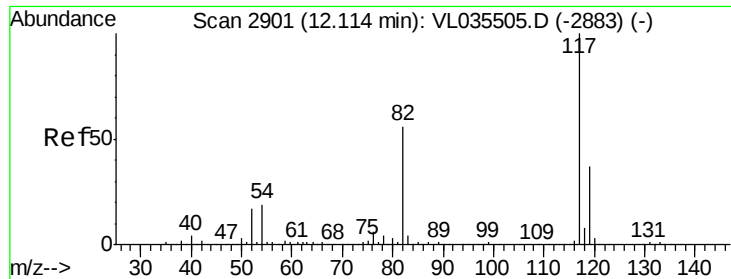
92 60.8 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

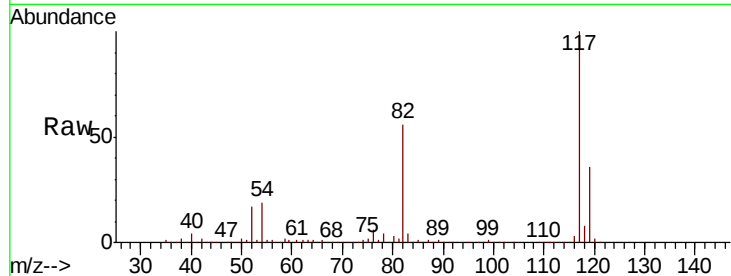




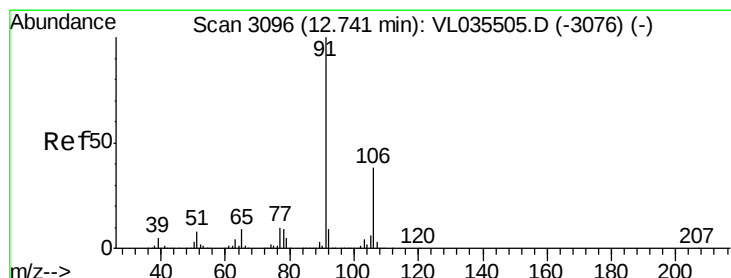
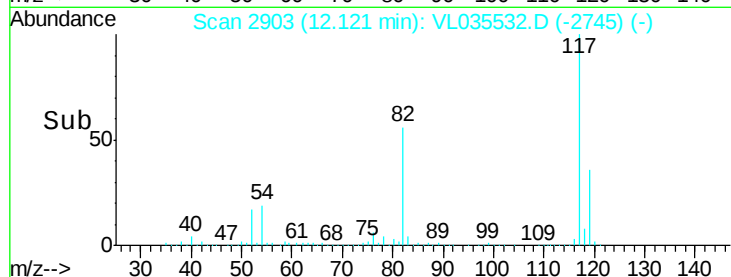
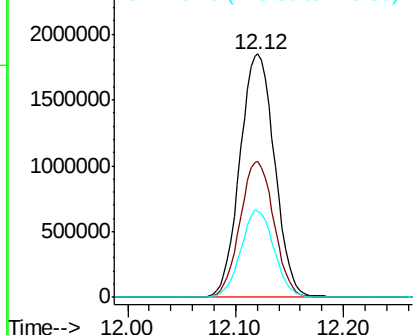
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion:117 Resp: 4144522
Ion Ratio Lower Upper
117 100
82 54.7 41.6 62.4
119 34.4 29.3 43.9

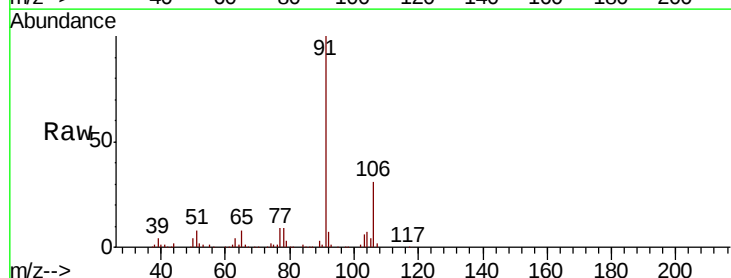


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

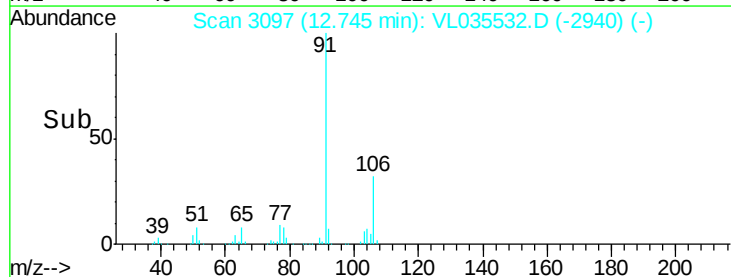
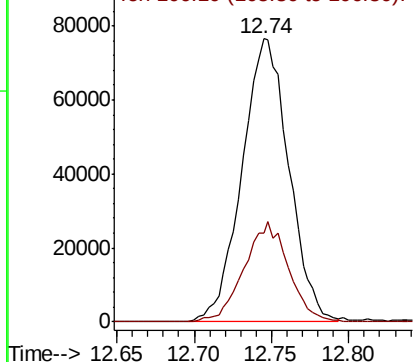


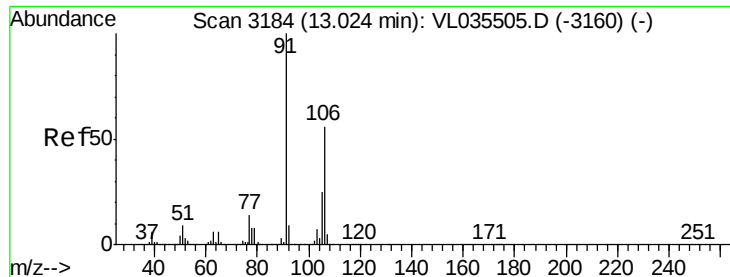
#58
Ethyl Benzene
Concen: 0.377 ppbv
RT: 12.74 min Scan# 3097
Delta R.T. 0.00 min
Lab File: VL035532.D
Acq: 3 Sep 2020 15:53

Tgt Ion: 91 Resp: 161146
Ion Ratio Lower Upper
91 100
106 31.4 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.047 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.02 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampled :

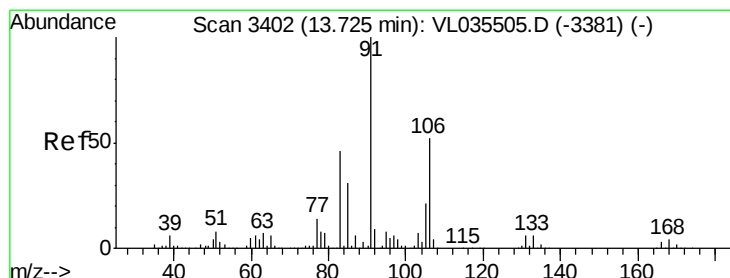
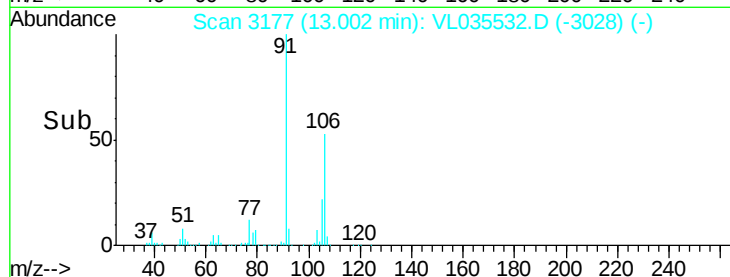
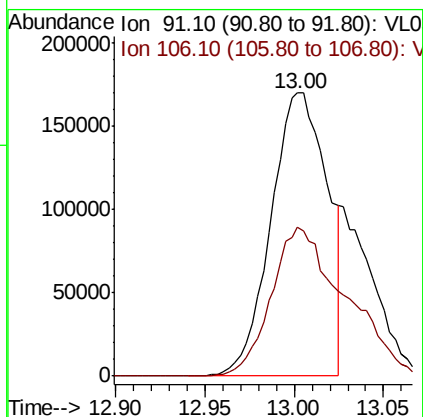
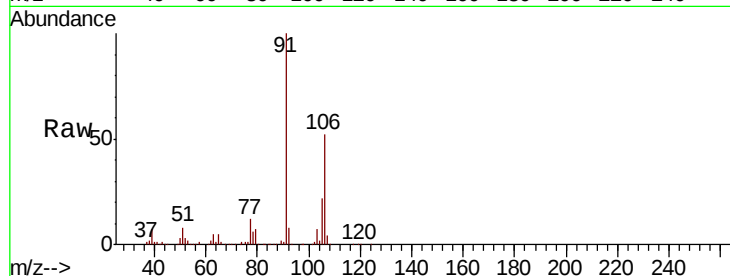
IA-1

Tot Ion: 91 Resp: 374011

Ion Ratio Lower Upper

91 100

106 69.0 43.4 65.2#



#60

o-Xylene

Concen: 0.487 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL035532.D

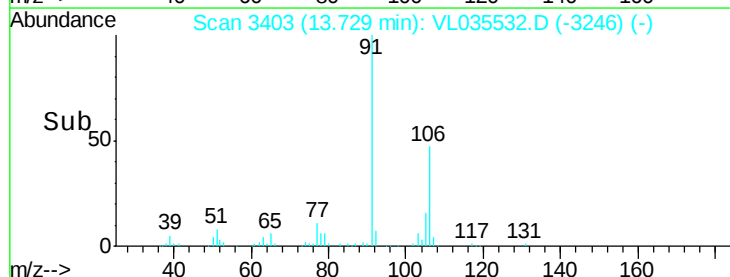
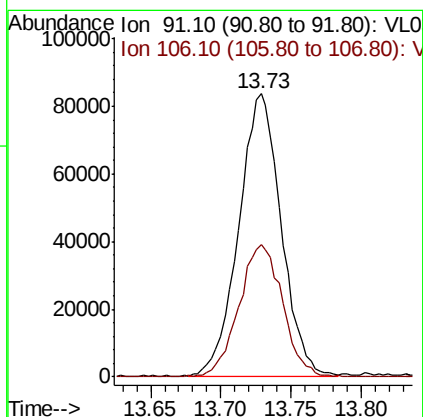
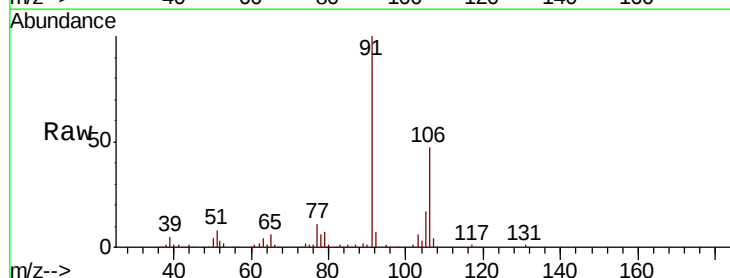
Acq: 3 Sep 2020 15:53

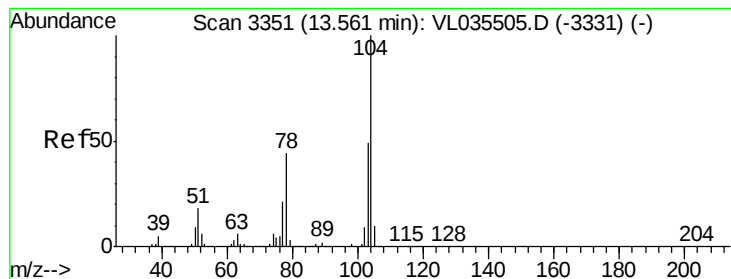
Tgt Ion: 91 Resp: 175052

Ion Ratio Lower Upper

91 100

106 48.6 25.8 77.4





#61

Stvrene

Concen: 0.043 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

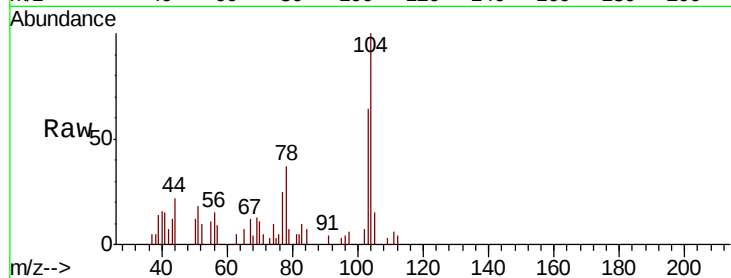
Tot Ion:104 Resp: 11819

Ion Ratio Lower Upper

104 100

78 47.8 34.8 52.2

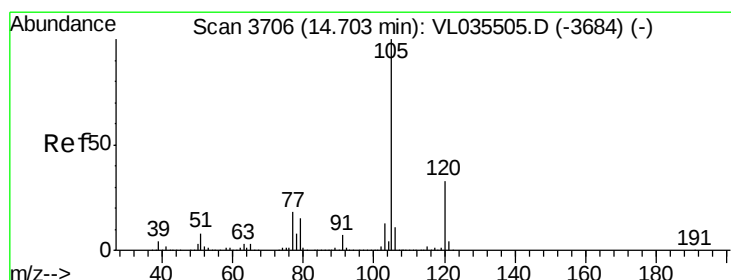
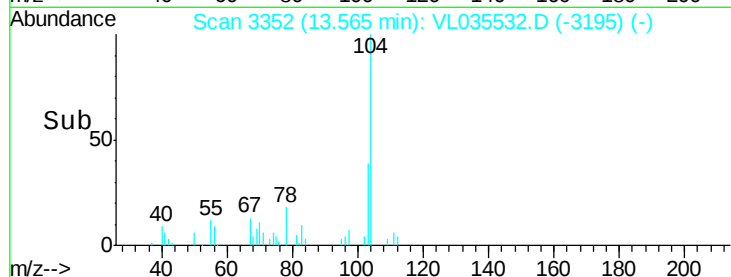
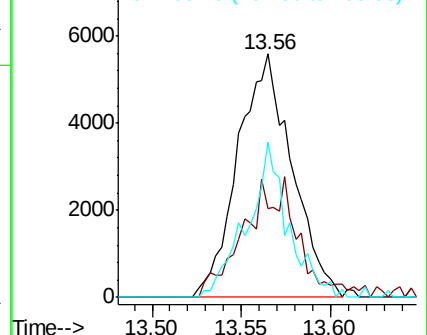
103 49.0 38.2 57.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. 0.00 min

Lab File: VL035532.D

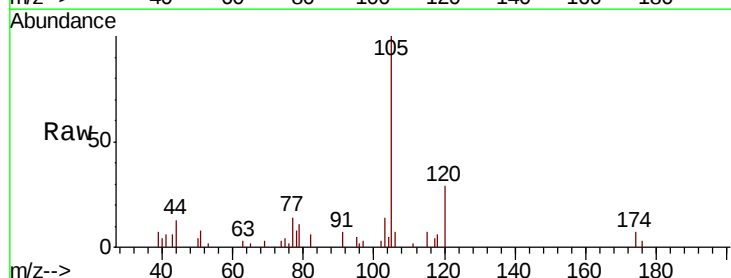
Acq: 3 Sep 2020 15:53

Tgt Ion:105 Resp: 18598

Ion Ratio Lower Upper

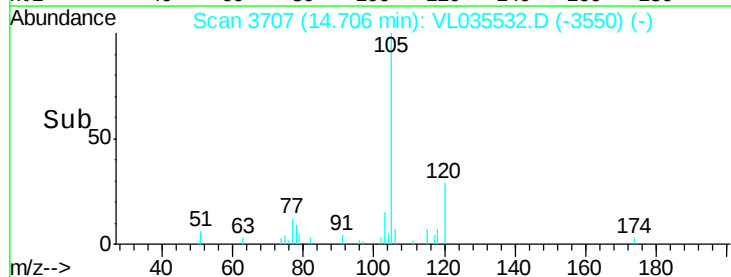
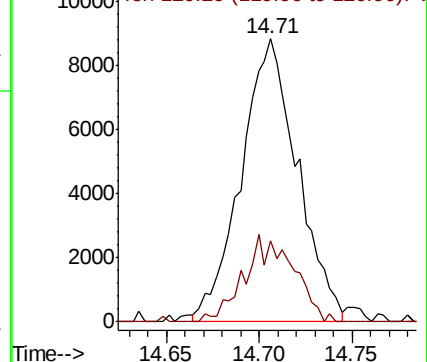
105 100

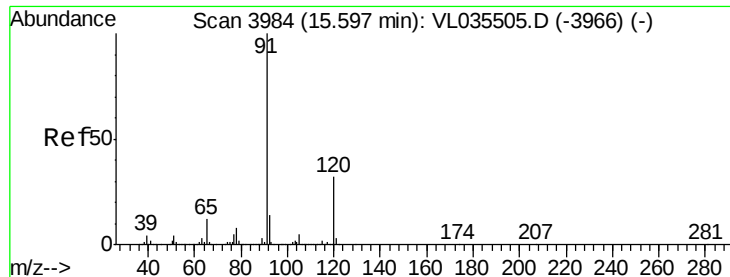
120 26.9 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.040 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampled :

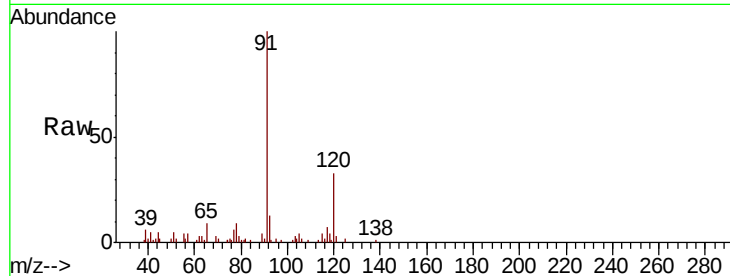
IA-1

Tot Ion:120 Resp: 6989

Ion Ratio Lower Upper

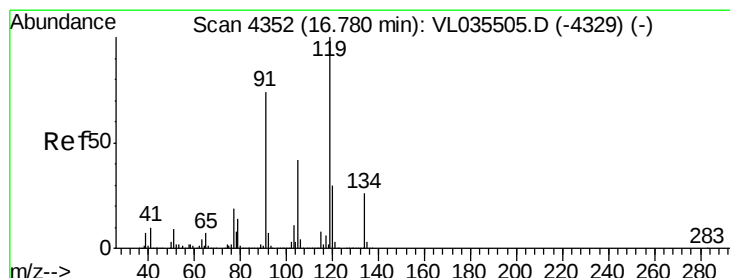
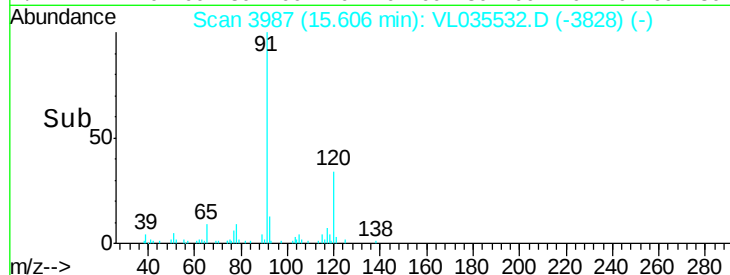
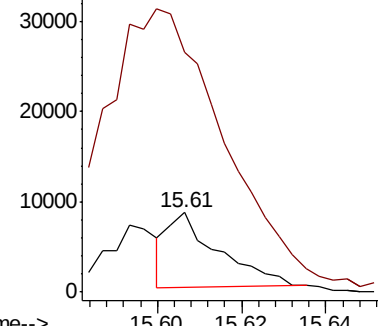
120 100

91 998.4 279.4 419.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.047 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.02 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

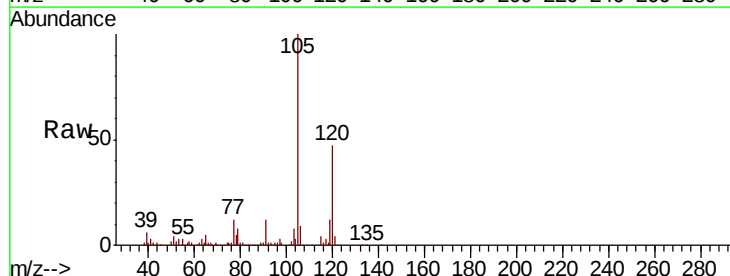
Tgt Ion:119 Resp: 25216

Ion Ratio Lower Upper

119 100

91 141.4 58.6 87.8#

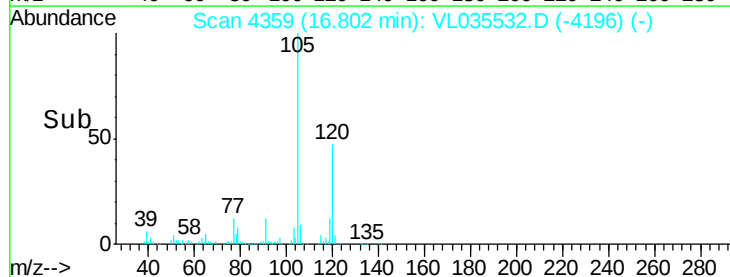
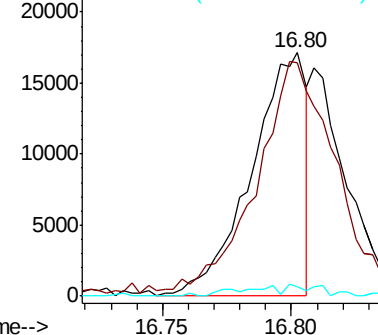
134 6.2 18.9 28.3#

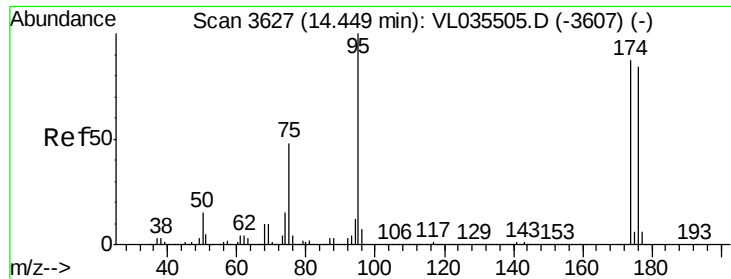


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

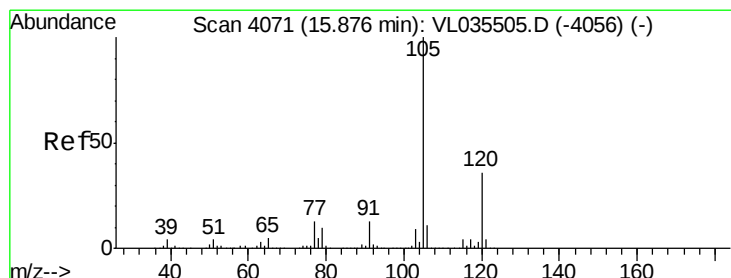
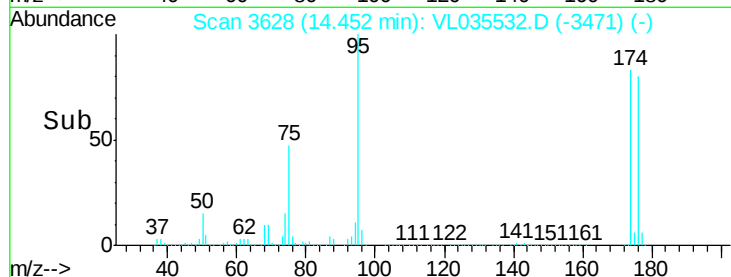
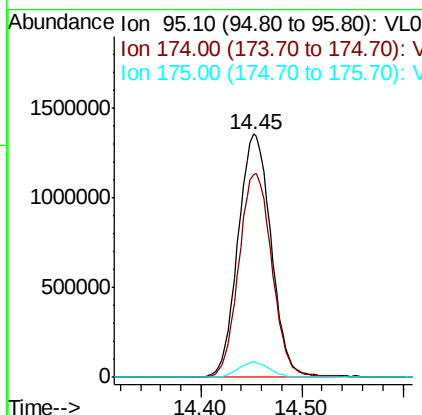
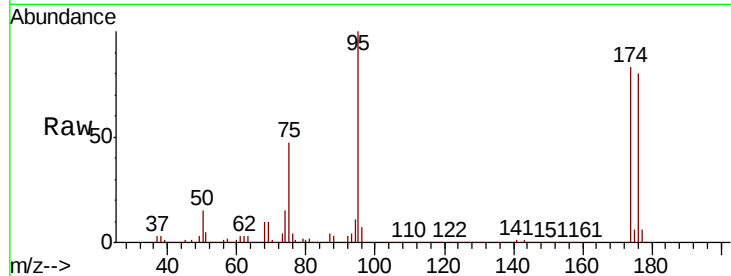




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.445 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

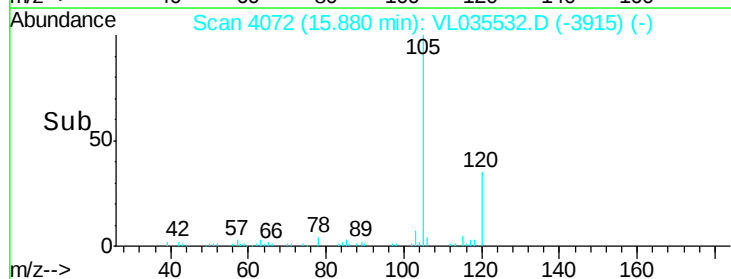
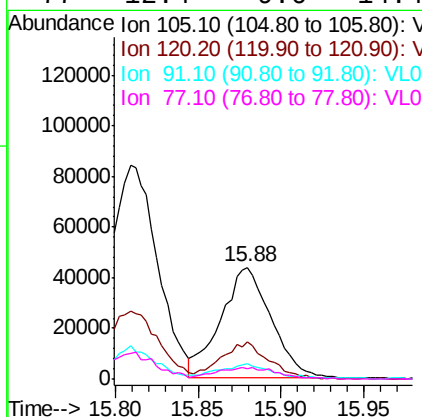
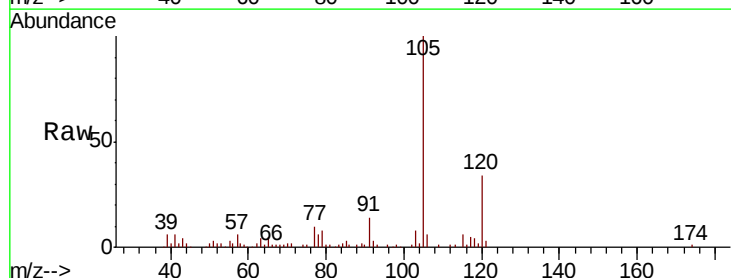
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

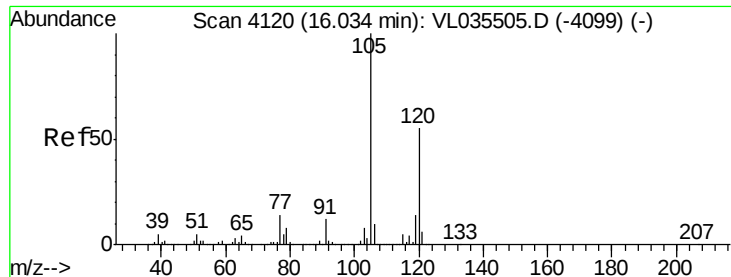
Tot Ion: 95 Resp: 3074319
 Ion Ratio Lower Upper
 95 100
 174 84.0 69.6 104.4
 175 6.1 5.1 7.7



#72
 4-Ethyltoluene
 Concen: 0.202 ppbv
 RT: 15.88 min Scan# 4072
 Delta R.T. 0.00 min
 Lab File: VL035532.D
 Acq: 3 Sep 2020 15:53

Tgt Ion: 105 Resp: 92464
 Ion Ratio Lower Upper
 105 100
 120 31.4 27.4 41.2
 91 15.3 9.7 14.5#
 77 12.4 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 0.190 ppbv

RT: 16.04 min Scan# 4121

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

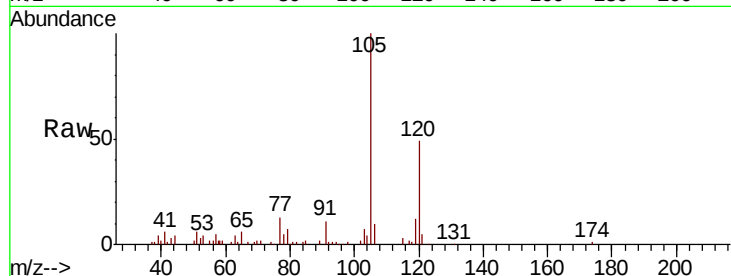
IA-1

Tot Ion:105 Resp: 80214

Ion Ratio Lower Upper

105 100

120 49.6 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.04

40000

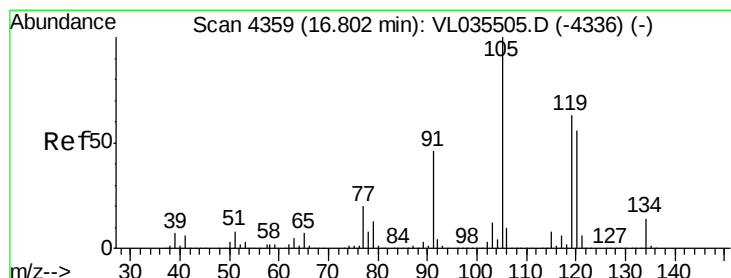
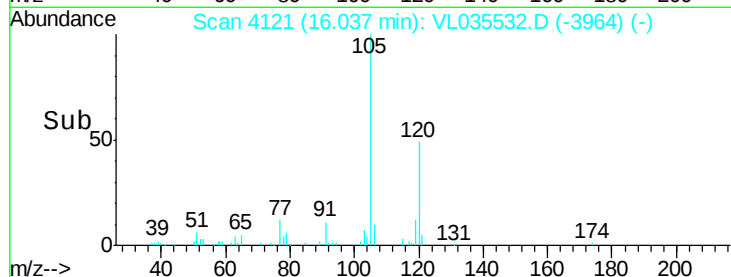
30000

20000

10000

0

Time--> 15.95 16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 0.668 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Tgt Ion:105 Resp: 310208

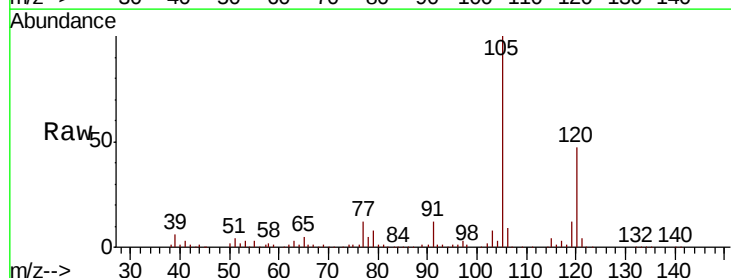
Ion Ratio Lower Upper

105 100

120 47.1 44.4 66.6

91 11.5 37.1 55.7#

77 12.2 16.0 24.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

200000

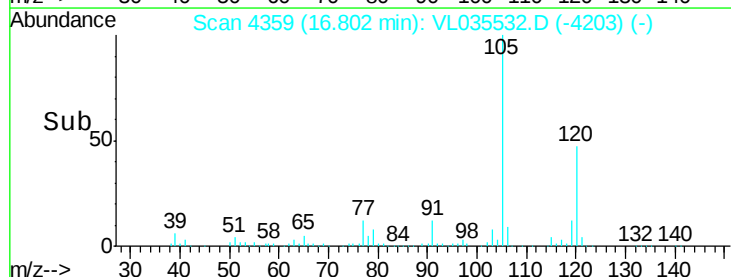
150000

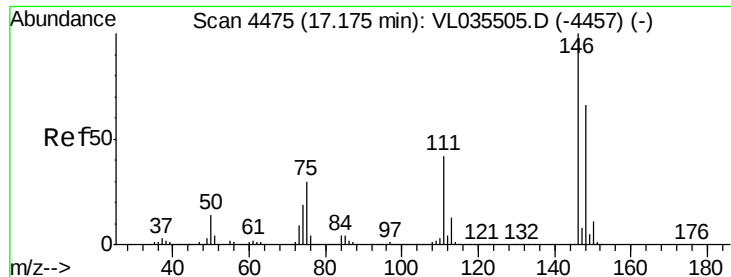
100000

50000

0

Time--> 16.70 16.80 16.90





#76

1,4-Dichlorobenzene

Concen: 0.063 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

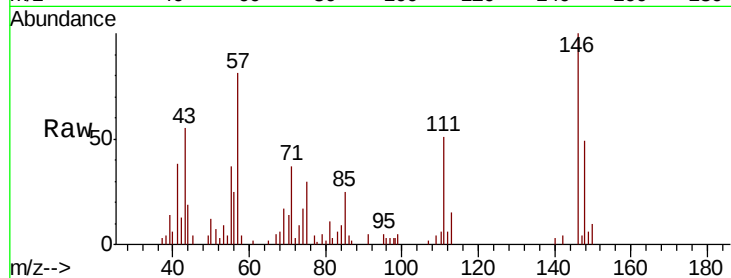
Tot Ion:146 Resp: 21245

Ion Ratio Lower Upper

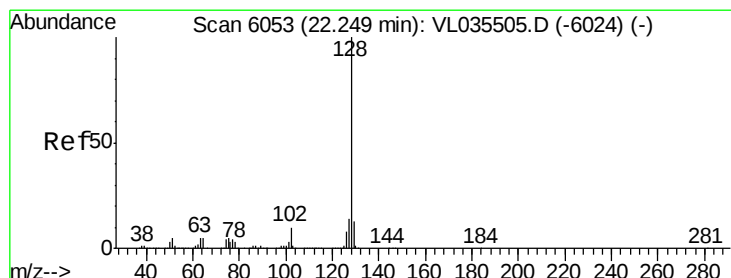
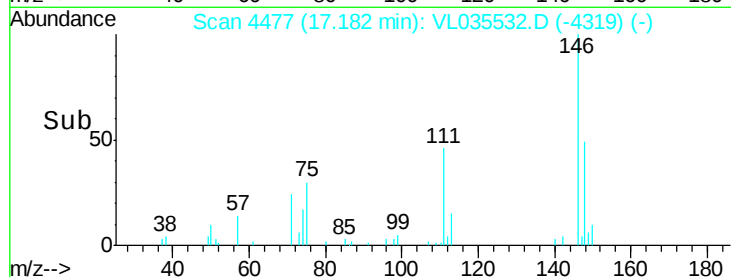
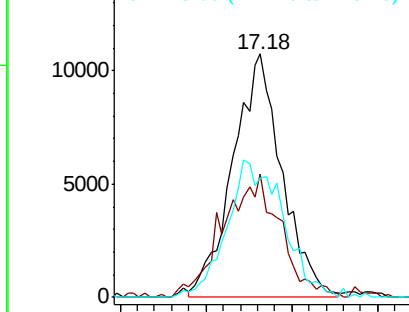
146 100

111 61.2 20.0 60.0#

148 64.7 33.2 99.6



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 2.975 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

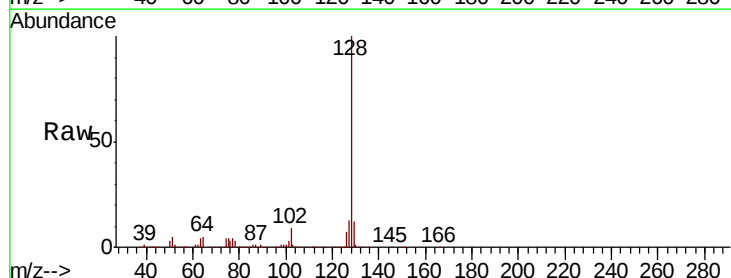
Tgt Ion:128 Resp: 1533352

Ion Ratio Lower Upper

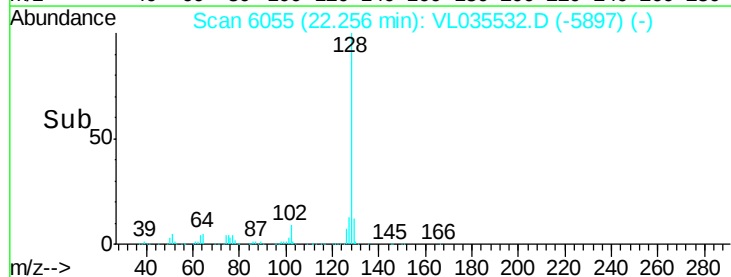
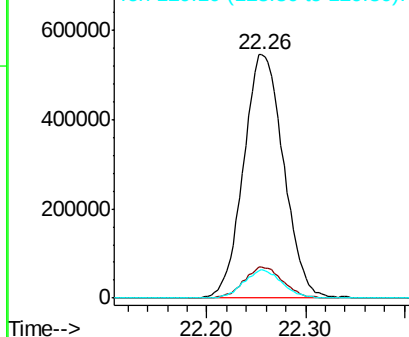
128 100

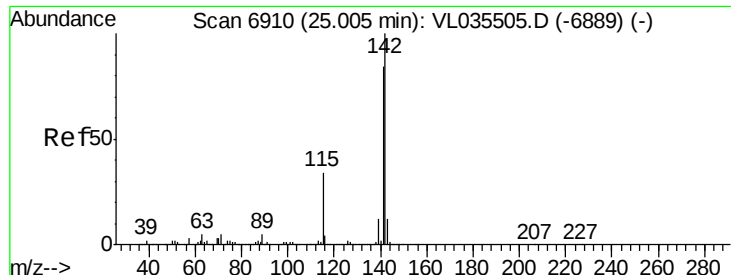
127 12.8 11.4 17.2

129 11.6 10.5 15.7



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.368 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. 0.01 min

Lab File: VL035532.D

Acq: 3 Sep 2020 15:53

Instrument :

MSVOA_L

ClientSampleId :

IA-1

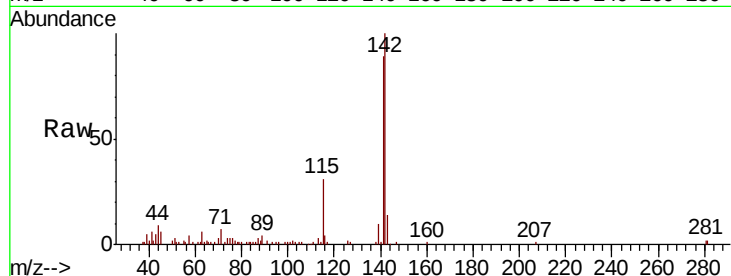
Tot Ion:142 Resp: 64775

Ion Ratio Lower Upper

142 100

141 86.3 67.6 101.4

115 33.7 25.8 38.8



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

