

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035875.D
 Acq On : 6 Nov 2020 1:04
 Operator : SY/AP
 Sample : L4618-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Nov 06 01:50:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1059114	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3915808	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3633368	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2614305	10.13	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

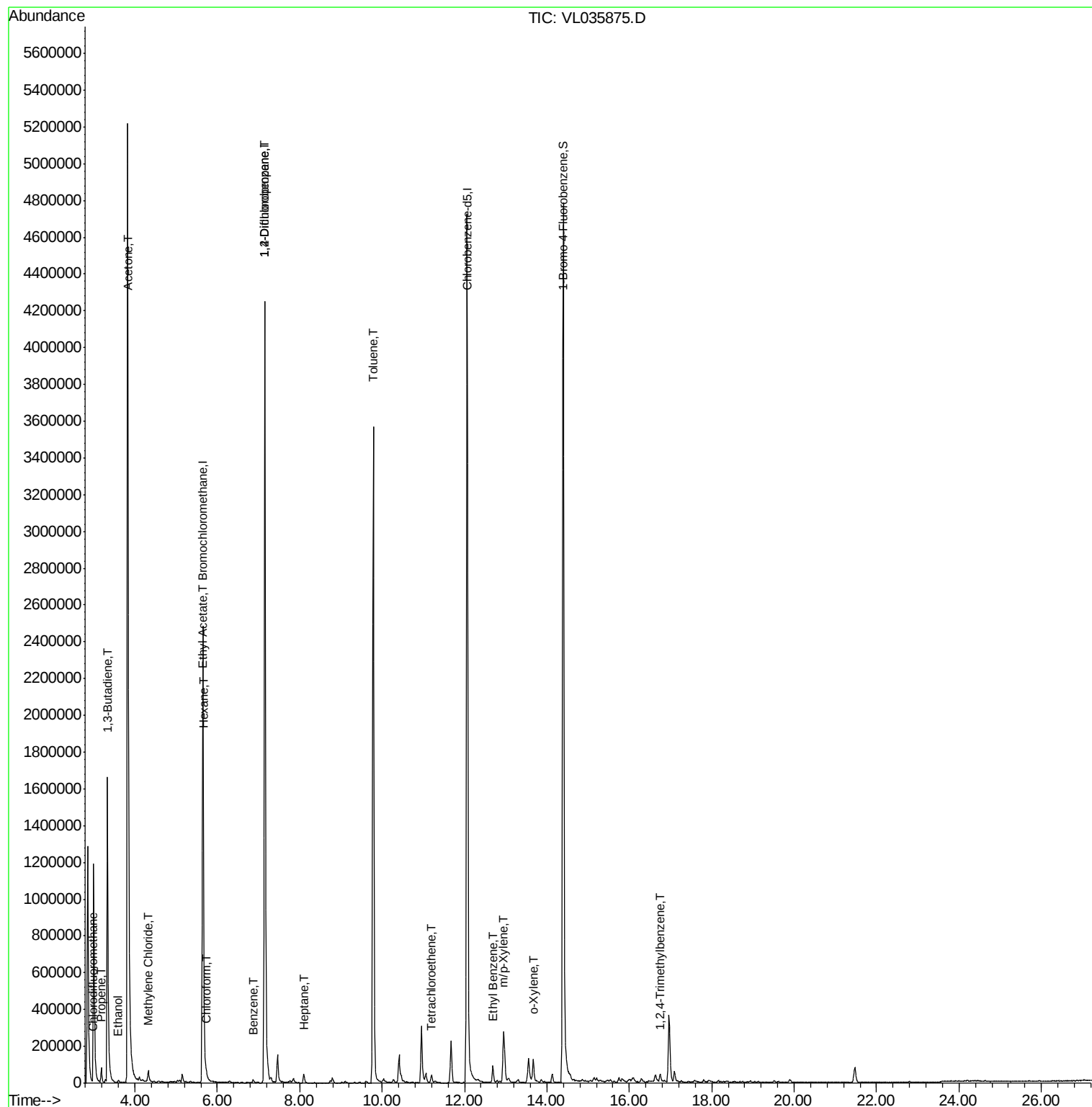
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	6186	0.049	ppbv #	79
9) Propene	3.19	41	23701	0.511	ppbv	84
10) Heptane	8.10	43	8725	0.068	ppbv #	35
13) Ethanol	3.59	45	5628	0.559	ppbv #	23
15) Acetone	3.82	43	7127945	62.952	ppbv	95
16) 1,3-Butadiene	3.33	39	250577	5.140	ppbv #	1
20) Methylene Chloride	4.33	84	30016	0.377	ppbv	97
25) Ethyl Acetate	5.66	43	12294	0.055	ppbv #	77
26) Hexane	5.67	57	17332	0.141	ppbv #	56
29) Chloroform	5.73	83	18329	0.076	ppbv	96
36) Benzene	6.86	78	14228	0.049	ppbv #	89
39) 1,2-Dichloropropane	7.15	63	773103	7.888	ppbv #	30
52) Tetrachloroethene	11.20	164	10897	0.079	ppbv	87
53) Toluene	9.78	91	3270657	9.311	ppbv	100
58) Ethyl Benzene	12.69	91	80136	0.181	ppbv	97
59) m/p-Xylene	12.94	91	321889	0.860	ppbv	100
60) o-Xylene	13.67	91	94790	0.260	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	25372	0.059	ppbv #	70

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

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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035875.D

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MSVOA_L

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IA-1DL

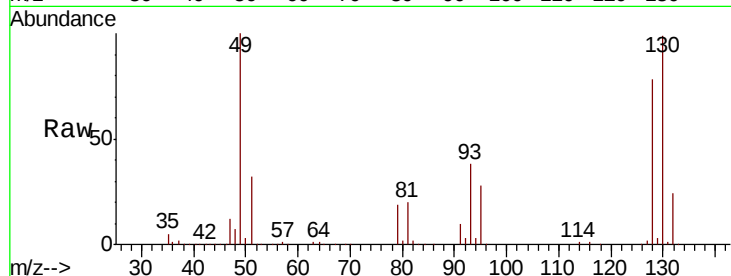
Tot Ion: 49 Resp: 1059114

Ion Ratio Lower Upper

49 100

128 79.1 41.5 124.6

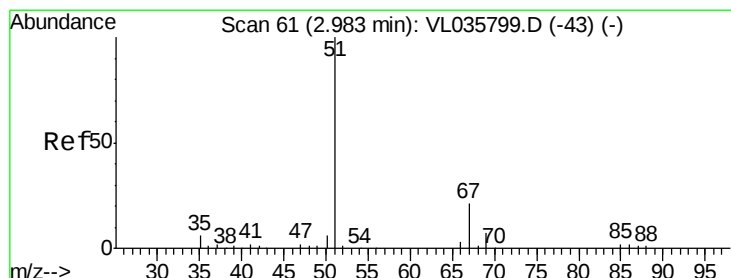
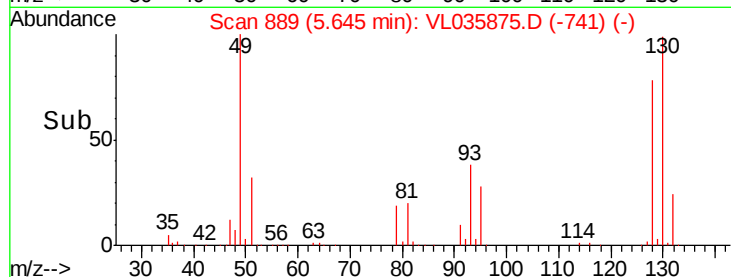
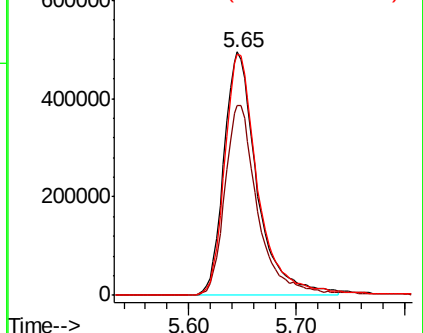
130 101.4 53.7 161.1



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



#3

Chlorodifluoromethane

Concen: 0.049 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035875.D

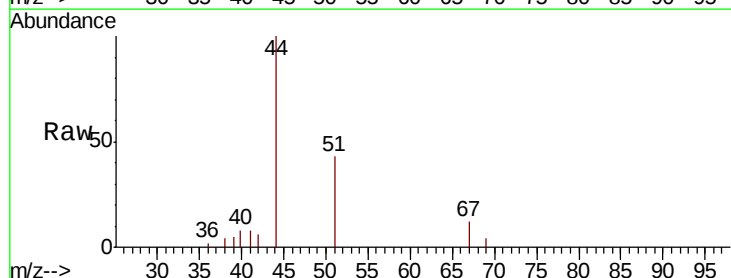
Acq: 6 Nov 2020 1:04

Tgt Ion: 51 Resp: 6186

Ion Ratio Lower Upper

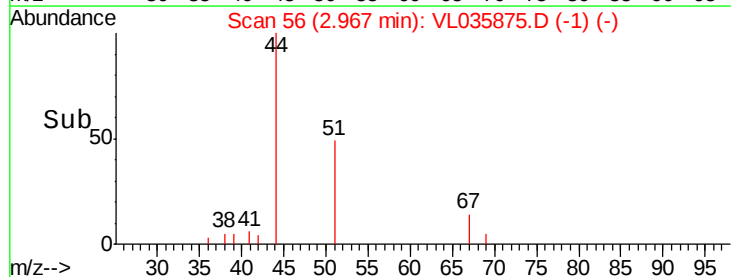
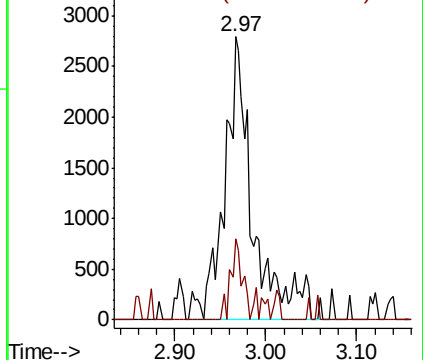
51 100

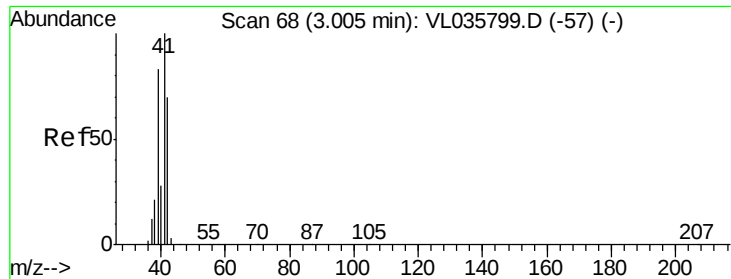
67 11.5 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.511 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.18 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

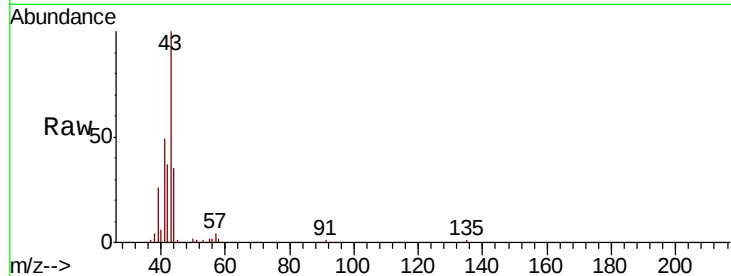
IA-1DL

Tot Ion: 41 Resp: 23701

Ion Ratio Lower Upper

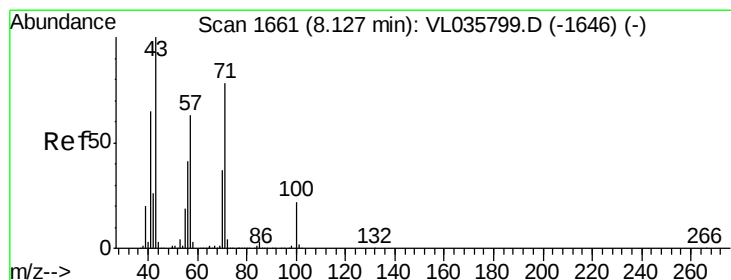
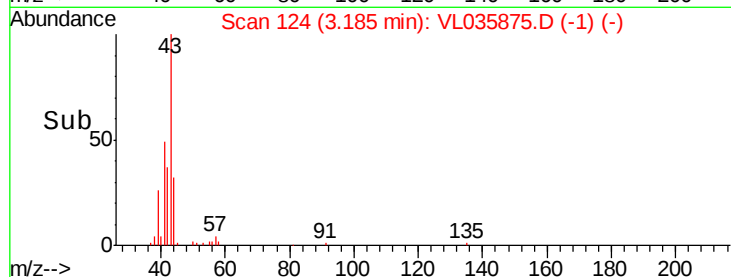
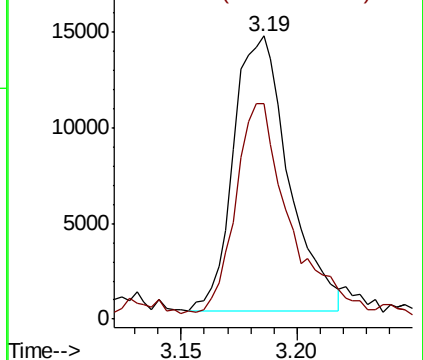
41 100

42 83.4 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.068 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.03 min

Lab File: VL035875.D

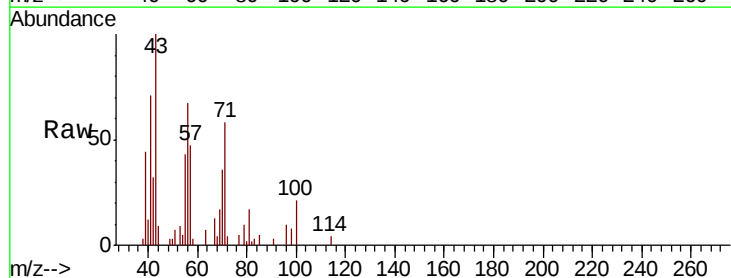
Acq: 6 Nov 2020 1:04

Tgt Ion: 43 Resp: 8725

Ion Ratio Lower Upper

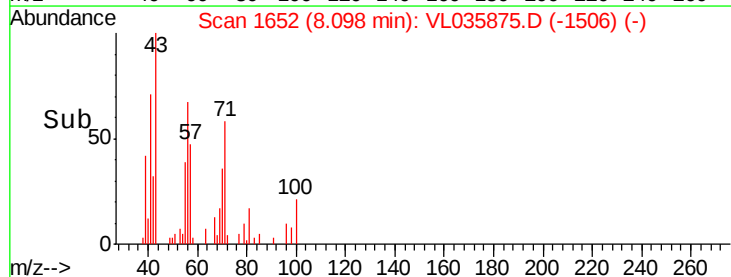
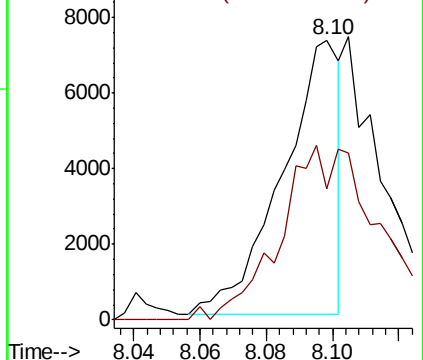
43 100

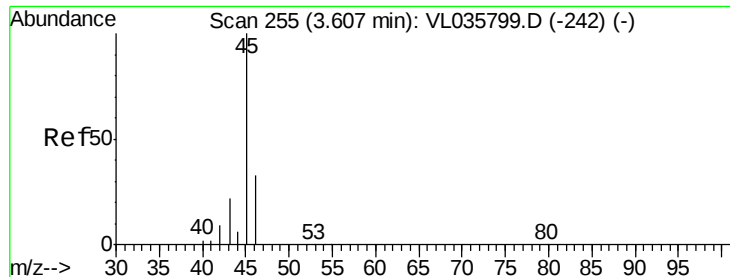
57 112.9 50.0 75.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 0.559 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

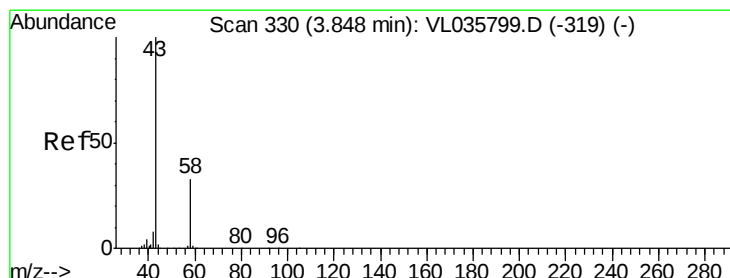
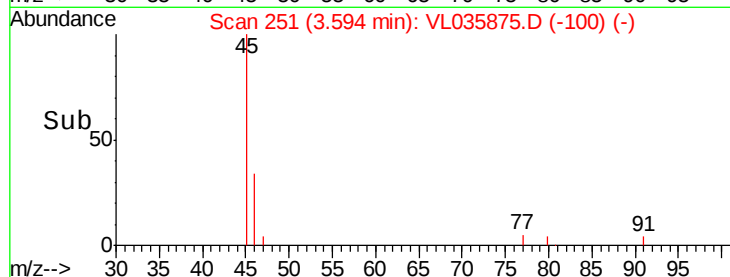
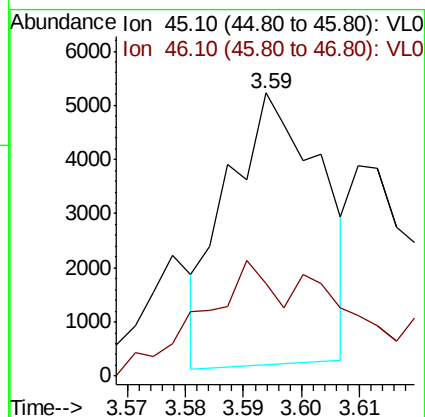
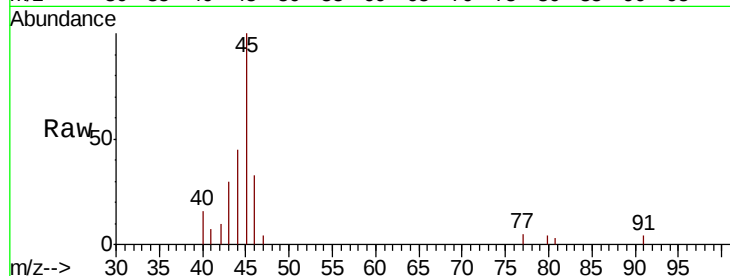
IA-1DL

Tot Ion: 45 Resp: 5628

Ion Ratio Lower Upper

45 100

46 87.9 16.1 64.5#



#15

Acetone

Concen: 62.952 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL035875.D

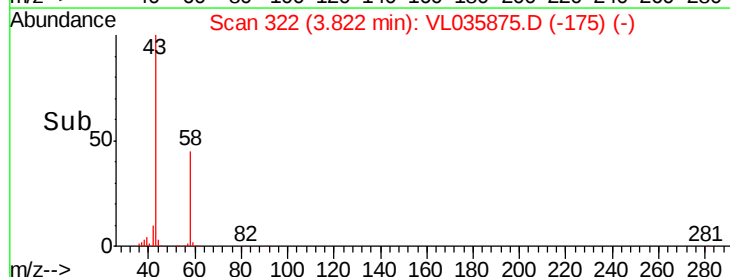
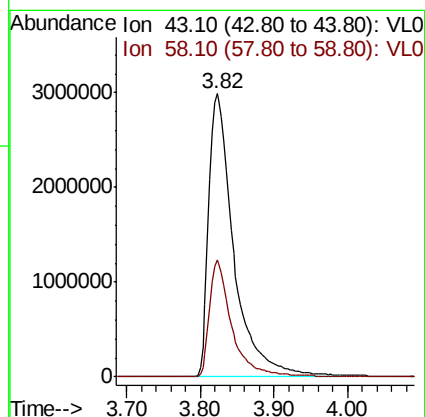
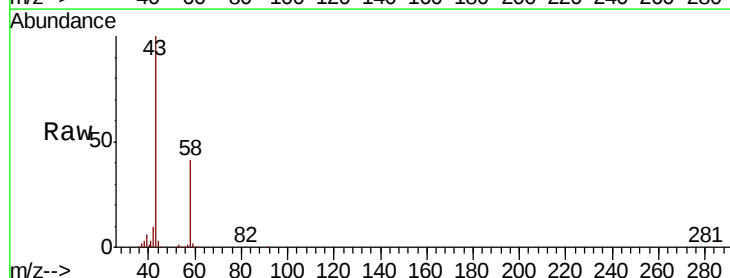
Acq: 6 Nov 2020 1:04

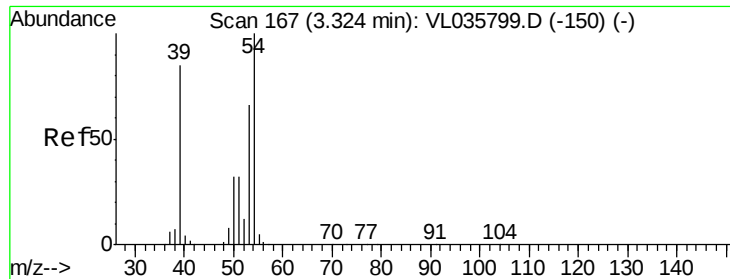
Tgt Ion: 43 Resp: 7127945

Ion Ratio Lower Upper

43 100

58 37.3 27.5 41.3

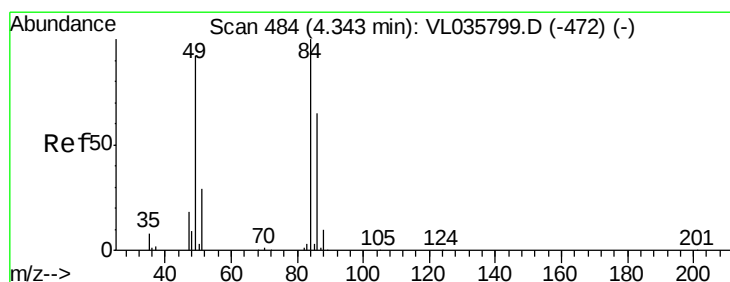
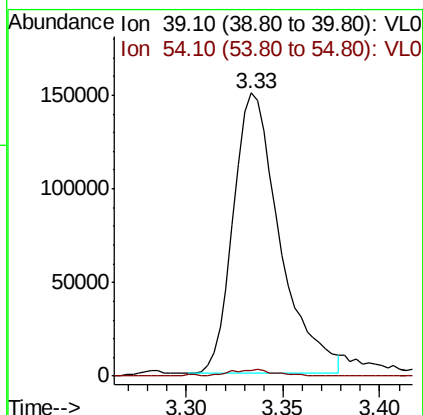
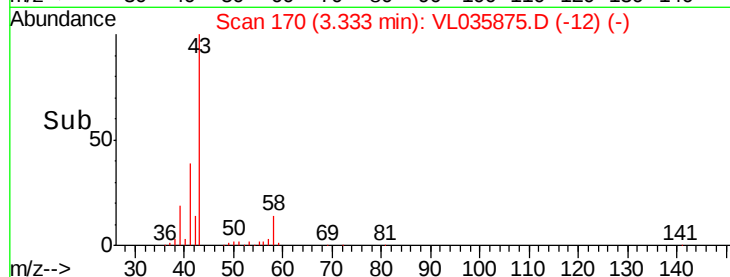
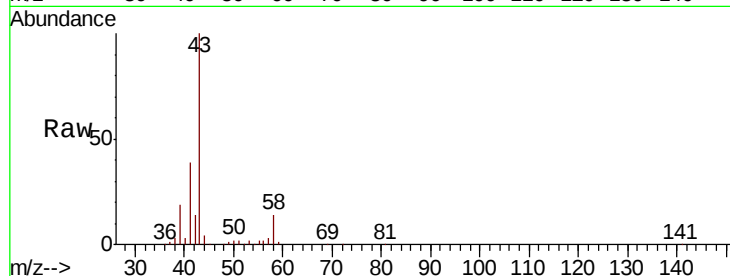




#16
1,3-Butadiene
Concen: 5.140 ppbv
RT: 3.33 min Scan# 170
Delta R.T. 0.01 min
Lab File: VL035875.D
Acq: 6 Nov 2020 1:04

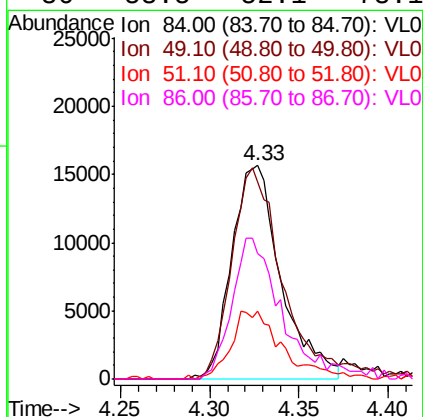
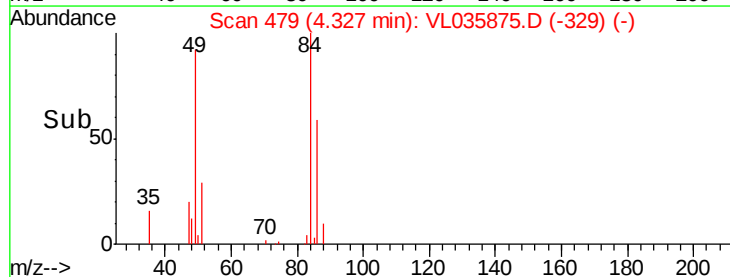
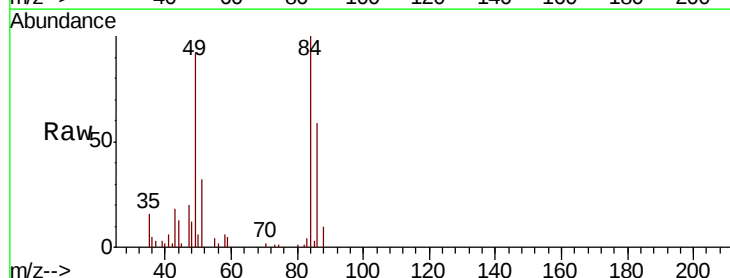
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

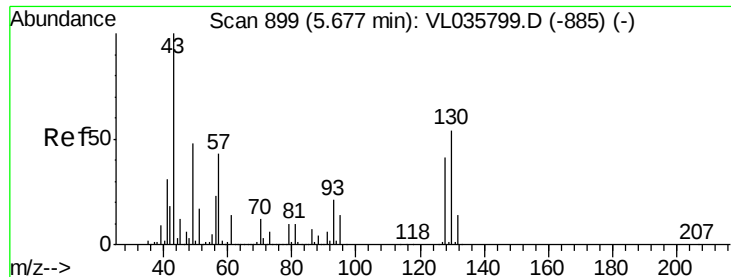
Tot Ion: 39 Resp: 250577
Ion Ratio Lower Upper
39 100
54 2.8 87.1 130.7#



#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL035875.D
Acq: 6 Nov 2020 1:04

Tgt Ion: 84 Resp: 30016
Ion Ratio Lower Upper
84 100
49 92.4 73.8 110.8
51 30.0 23.0 34.4
86 58.5 52.1 78.1

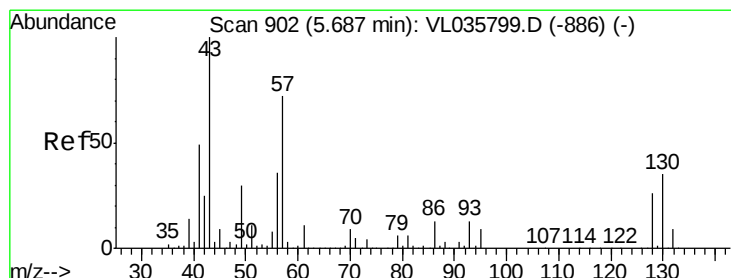
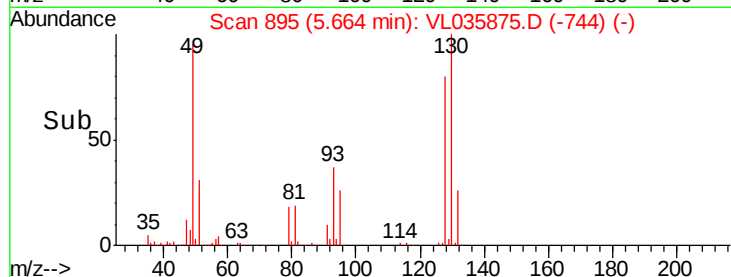
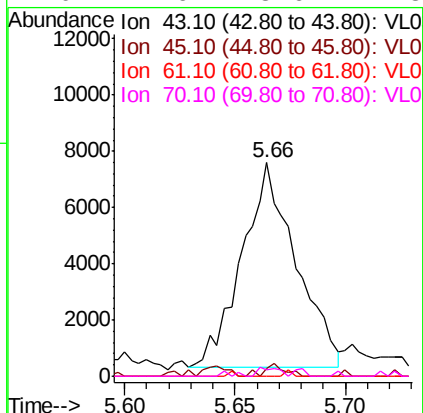
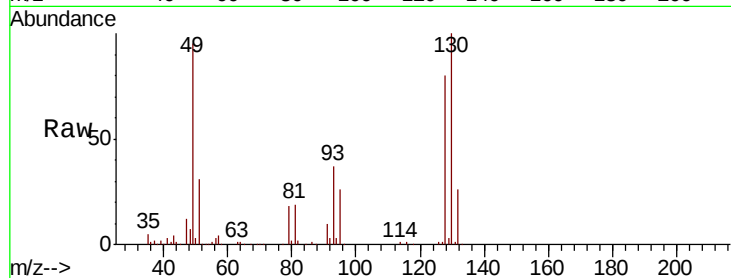




#25
Ethyl Acetate
Concen: 0.055 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035875.D
Acq: 6 Nov 2020 1:04

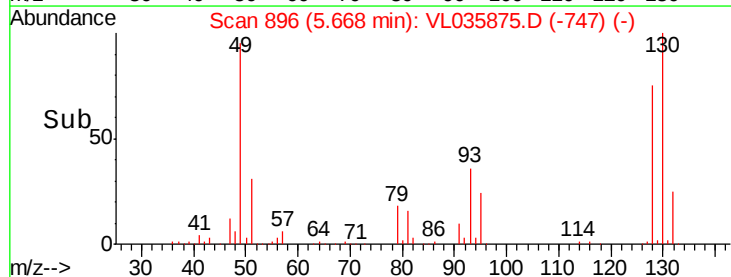
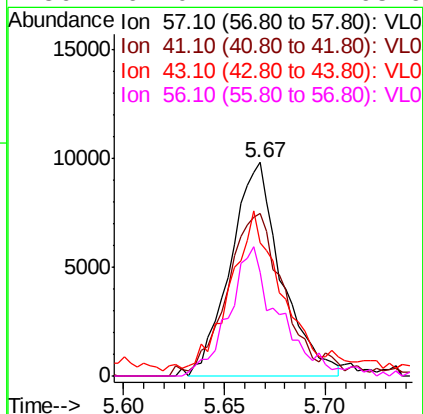
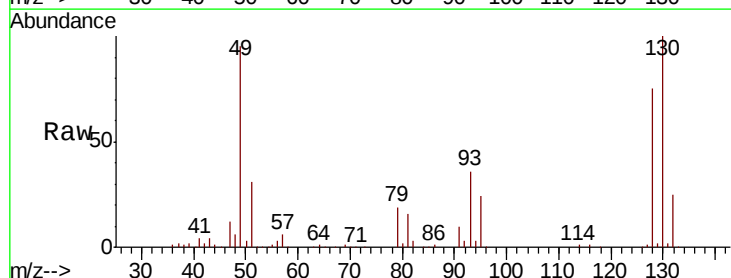
Instrument :
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ClientSampleId :
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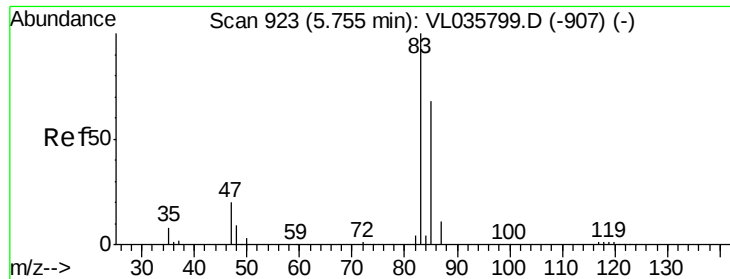
Tot Ion:	43	Resp:	12294
Ion	Ratio	Lower	Upper
43	100		
45	5.5	8.5	12.7#
61	0.3	10.7	16.1#
70	2.6	8.6	12.8#



#26
Hexane
Concen: 0.141 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL035875.D
Acq: 6 Nov 2020 1:04

Tgt Ion:	57	Resp:	17332
Ion	Ratio	Lower	Upper
57	100		
41	89.1	58.9	88.3#
43	95.4	150.2	225.2#
56	61.0	42.4	63.6





#29

Chloroform

Concen: 0.076 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

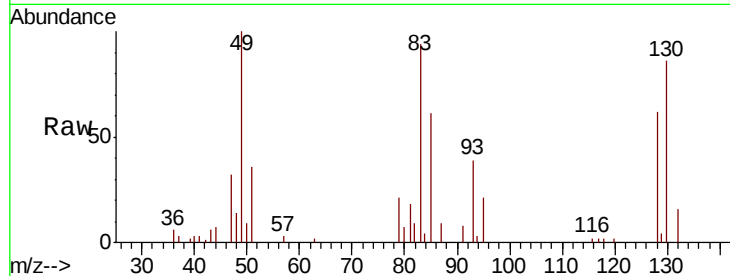
IA-1DL

Tot Ion: 83 Resp: 18329

Ion Ratio Lower Upper

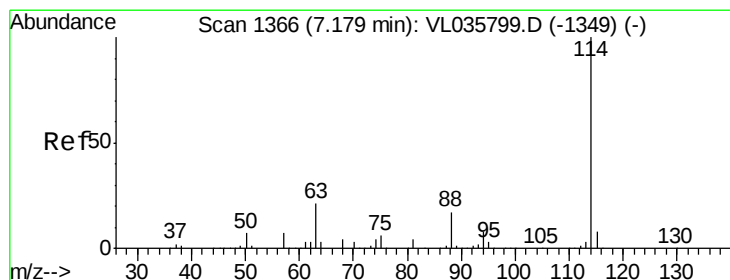
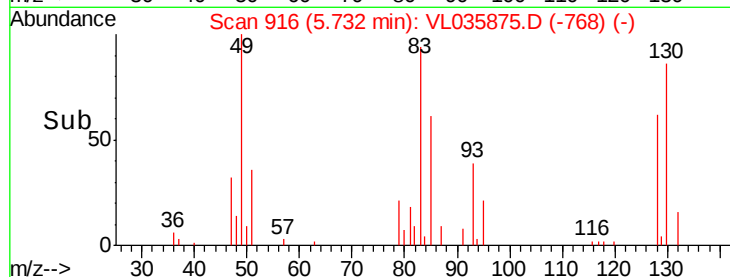
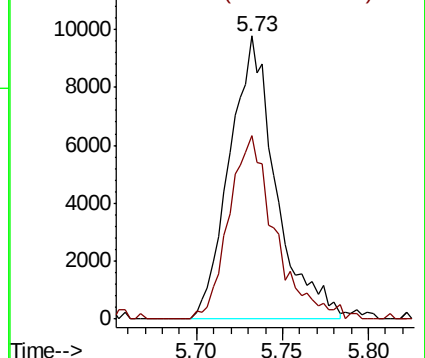
83 100

85 64.8 54.6 81.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.03 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

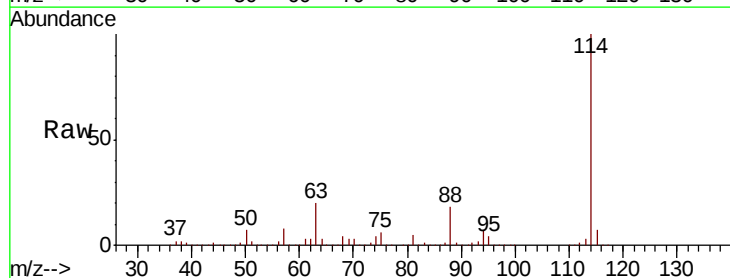
Tgt Ion: 114 Resp: 3915808

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

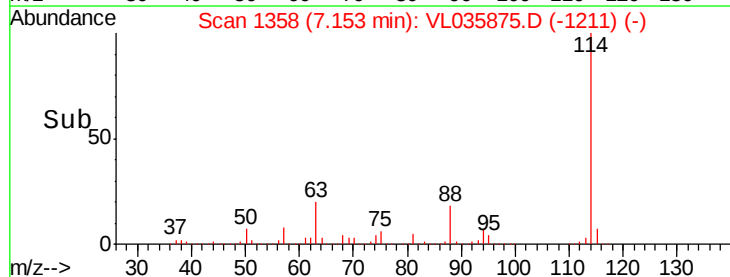
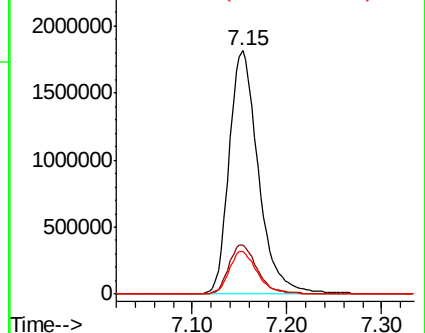
88 17.2 13.7 20.5

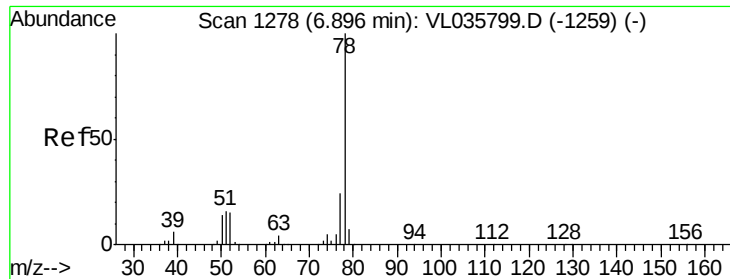


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 0.049 ppbv

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

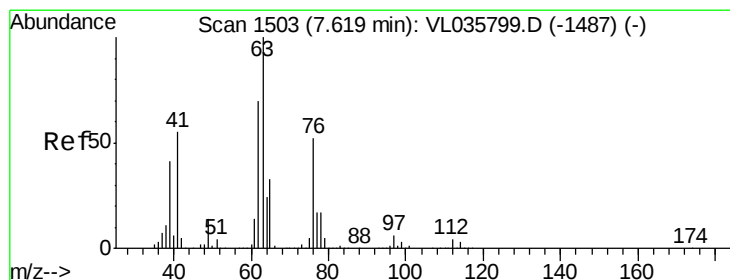
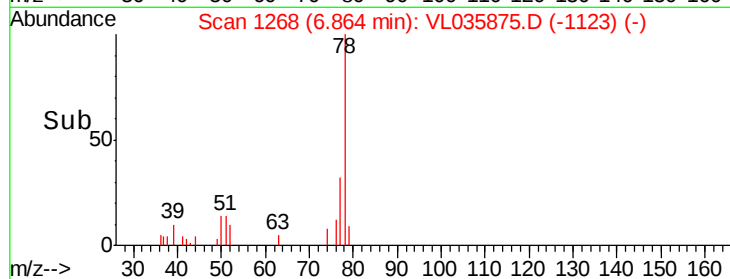
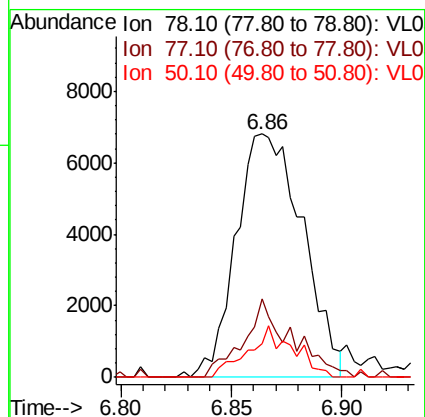
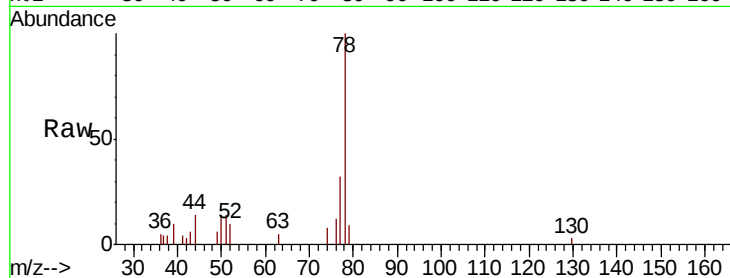
MSVOA_L

ClientSampleId :

IA-1DL

Tot Ion: 78 Resp: 14228

Ion	Ratio	Lower	Upper
78	100		
77	32.4	19.3	28.9#
50	13.6	11.4	17.2



#39

1,2-Dichloropropane

Concen: 7.888 ppbv

RT: 7.15 min Scan# 1357

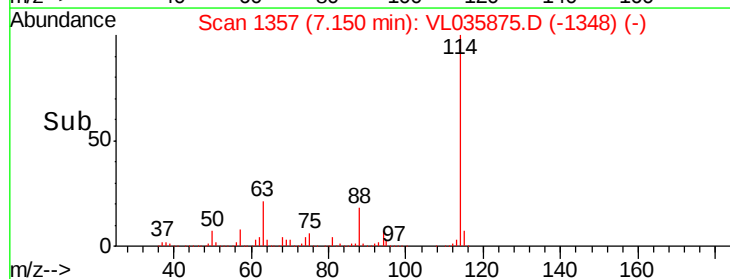
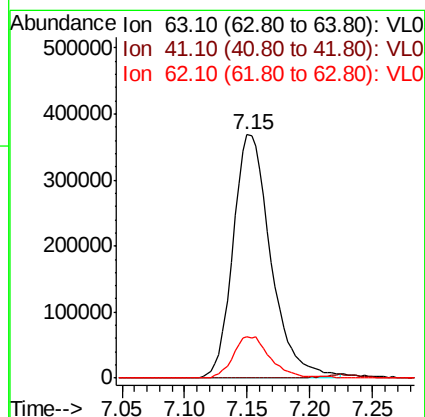
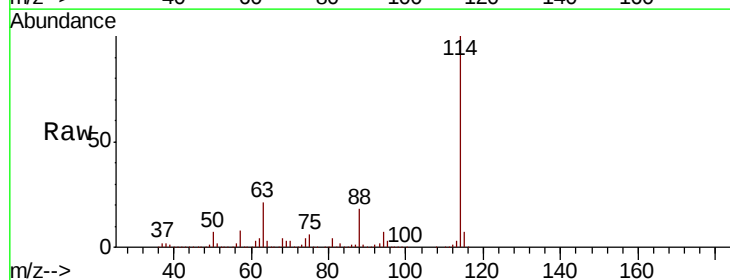
Delta R.T. -0.47 min

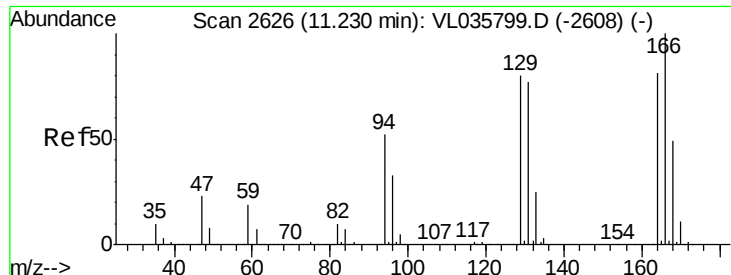
Lab File: VL035875.D

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Tgt Ion: 63 Resp: 773103

Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	17.1	56.2	84.2#





#52

Tetrachloroethene

Concen: 0.079 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. -0.03 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tot Ion:164 Resp: 10897

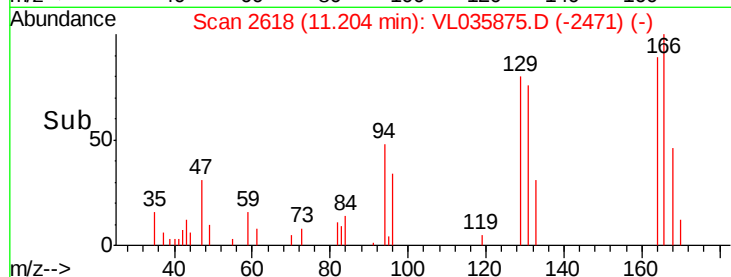
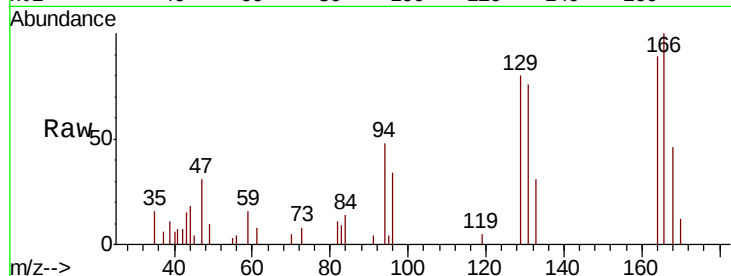
Ion Ratio Lower Upper

164 100

166 108.2 99.3 148.9

129 89.9 79.3 118.9

131 81.6 76.5 114.7



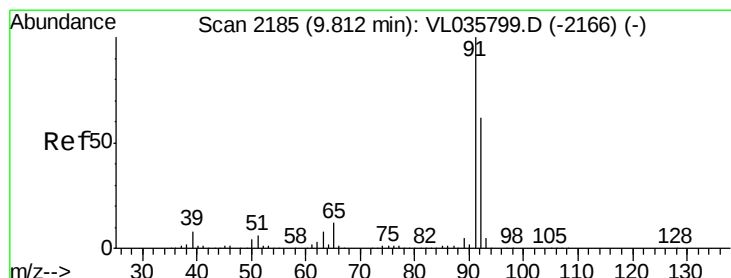
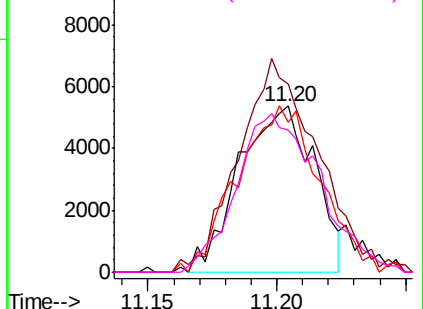
Abundance

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: 9.311 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL035875.D

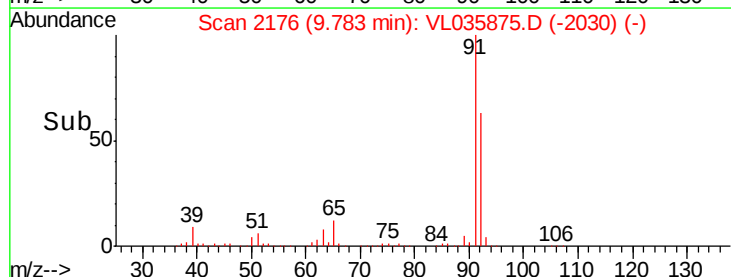
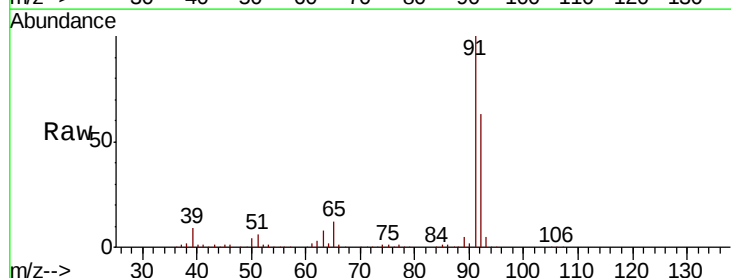
Acq: 6 Nov 2020 1:04

Tgt Ion: 91 Resp: 3270657

Ion Ratio Lower Upper

91 100

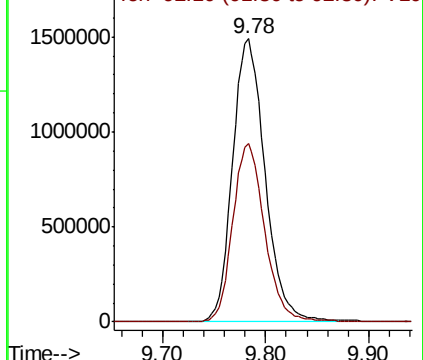
92 62.3 49.8 74.6

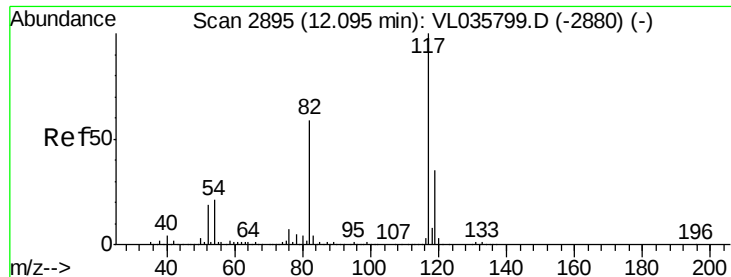


Abundance

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: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

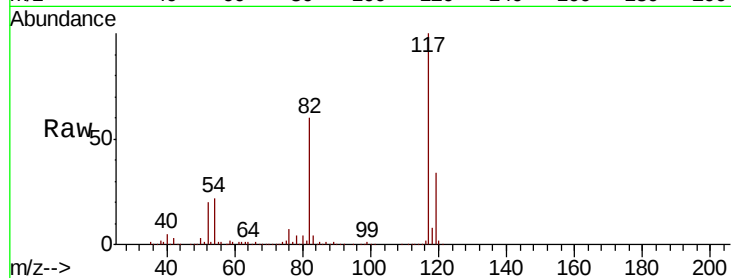
Tot Ion:117 Resp: 3633368

Ion Ratio Lower Upper

117 100

82 59.9 50.6 76.0

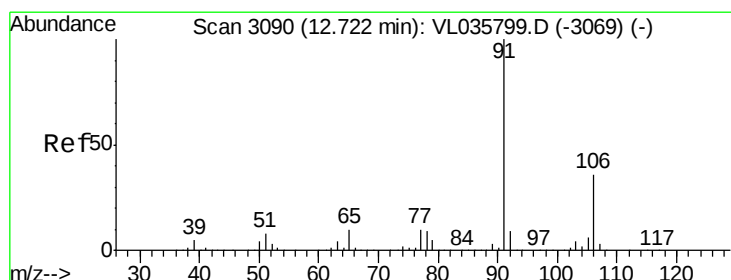
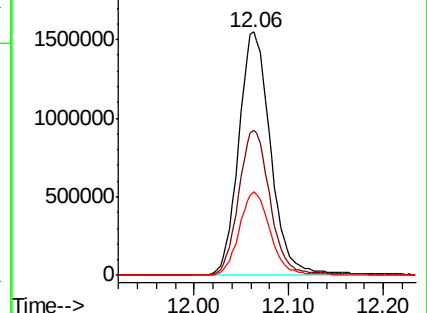
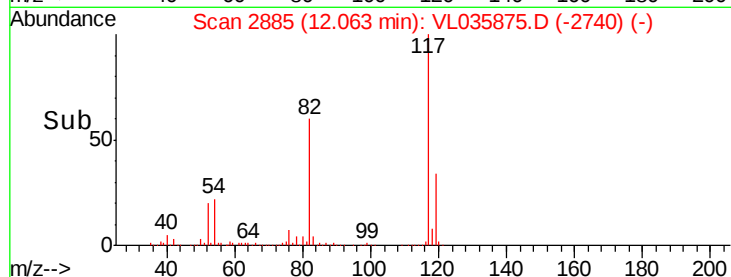
119 33.6 52.6 78.8#



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: 0.181 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.03 min

Lab File: VL035875.D

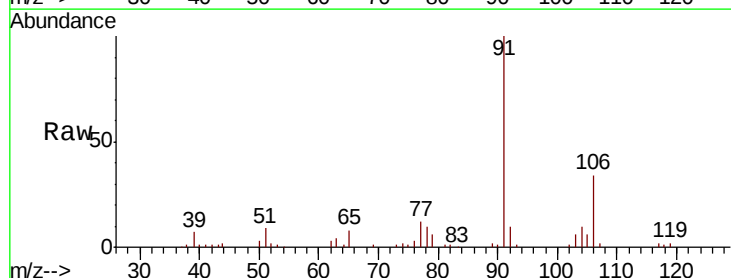
Acq: 6 Nov 2020 1:04

Tgt Ion: 91 Resp: 80136

Ion Ratio Lower Upper

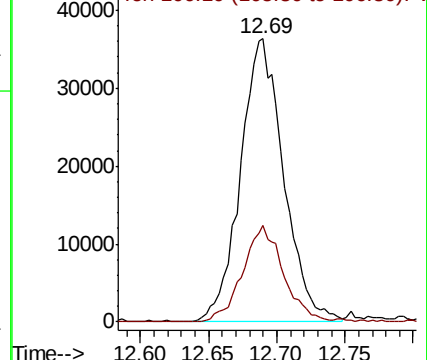
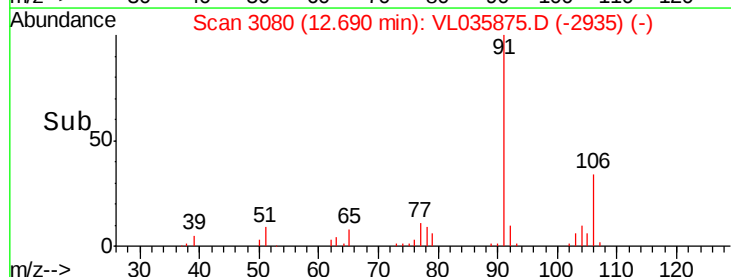
91 100

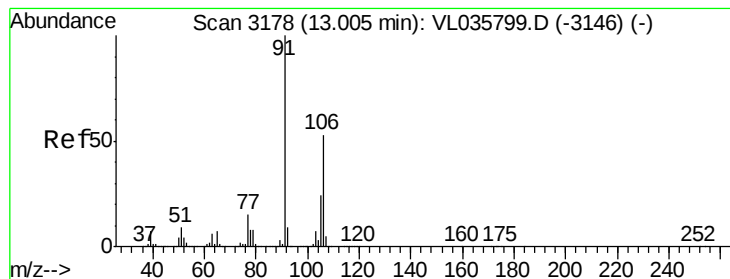
106 34.1 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.860 ppbv

RT: 12.94 min Scan# 3159

Delta R.T. -0.06 min

Lab File: VL035875.D

Acq: 6 Nov 2020 1:04

Instrument :

MSVOA_L

ClientSampleId :

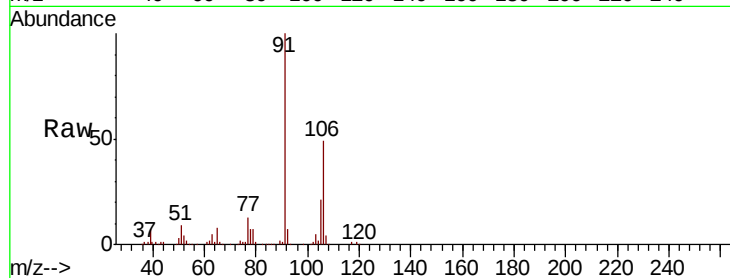
IA-1DL

Tot Ion: 91 Resp: 321889

Ion Ratio Lower Upper

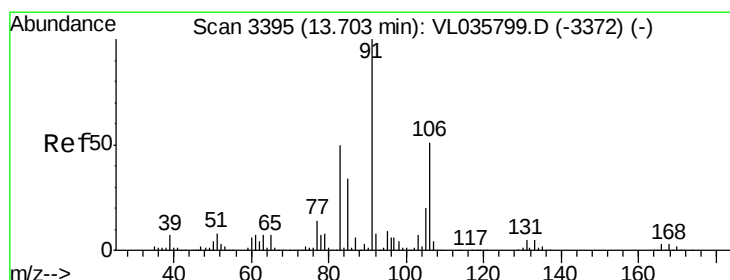
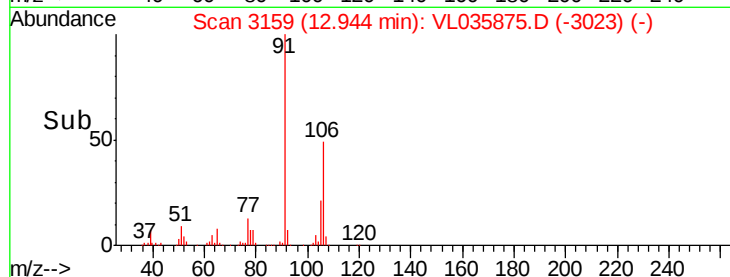
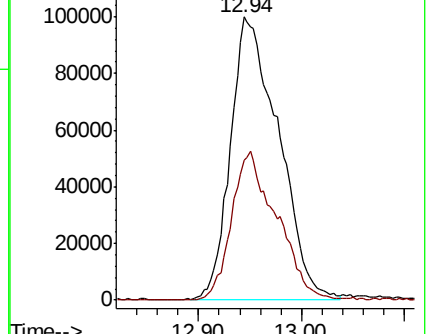
91 100

106 49.5 39.5 59.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.260 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.04 min

Lab File: VL035875.D

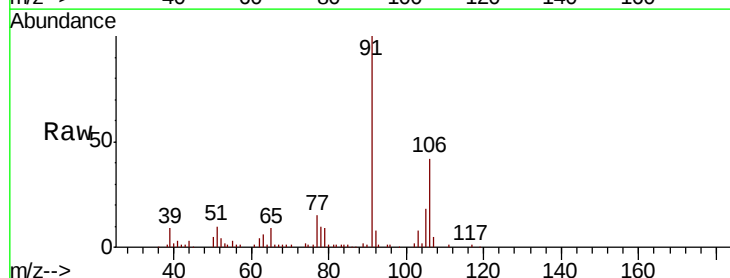
Acq: 6 Nov 2020 1:04

Tgt Ion: 91 Resp: 94790

Ion Ratio Lower Upper

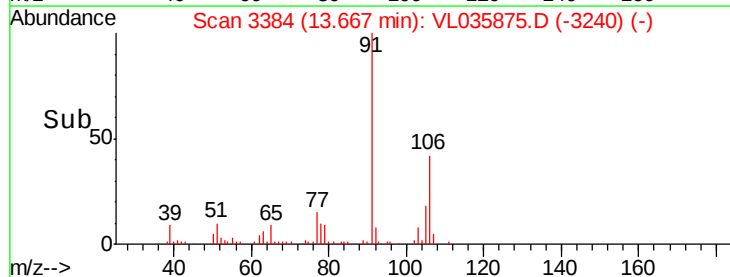
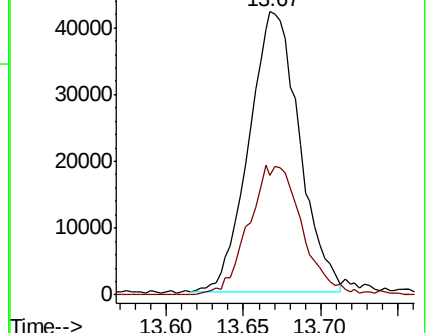
91 100

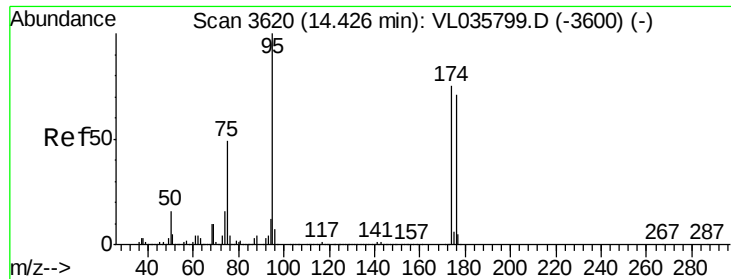
106 49.3 24.8 74.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

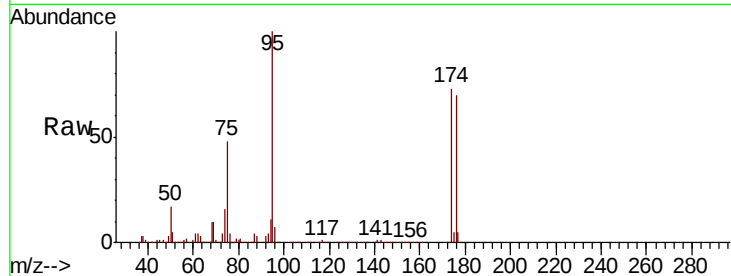




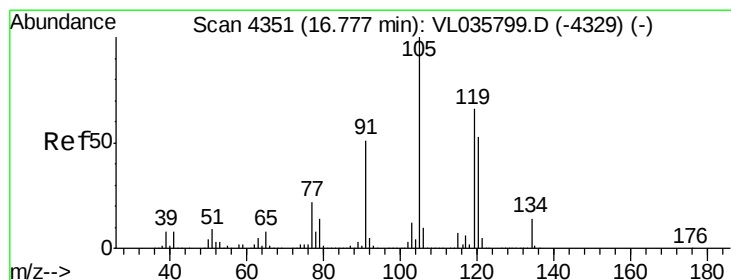
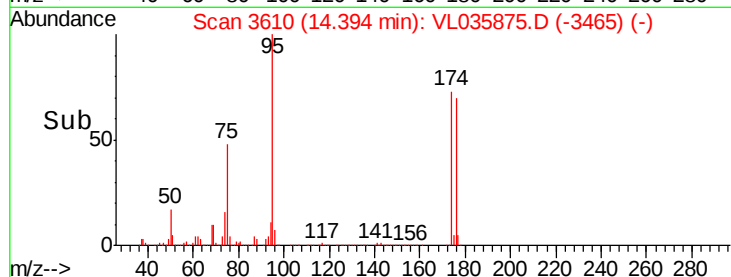
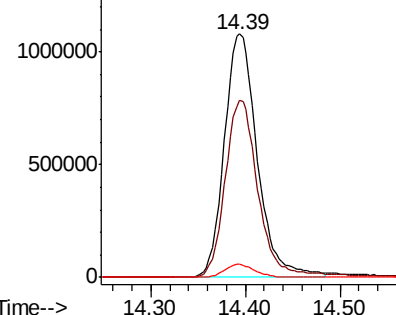
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.127 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.03 min
 Lab File: VL035875.D
 Acq: 6 Nov 2020 1:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Tot Ion: 95 Resp: 2614305
 Ion Ratio Lower Upper
 95 100
 174 74.4 59.8 89.6
 175 5.2 4.3 6.5

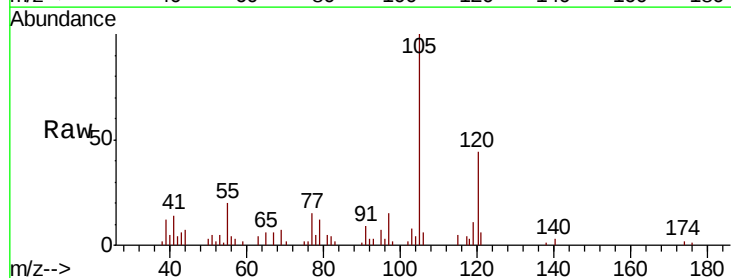


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.059 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.03 min
 Lab File: VL035875.D
 Acq: 6 Nov 2020 1:04

Tgt Ion: 105 Resp: 25372
 Ion Ratio Lower Upper
 105 100
 120 49.7 42.0 63.0
 91 6.9 41.0 61.6#
 77 14.5 17.3 25.9#



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

