

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035822.D
 Acq On : 4 Nov 2020 3:07
 Operator : SY/AP
 Sample : L4610-02 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 04 05:18:19 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	5.64	49	1143547	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	5039306	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.06	117	4711153	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3347220	10.00	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

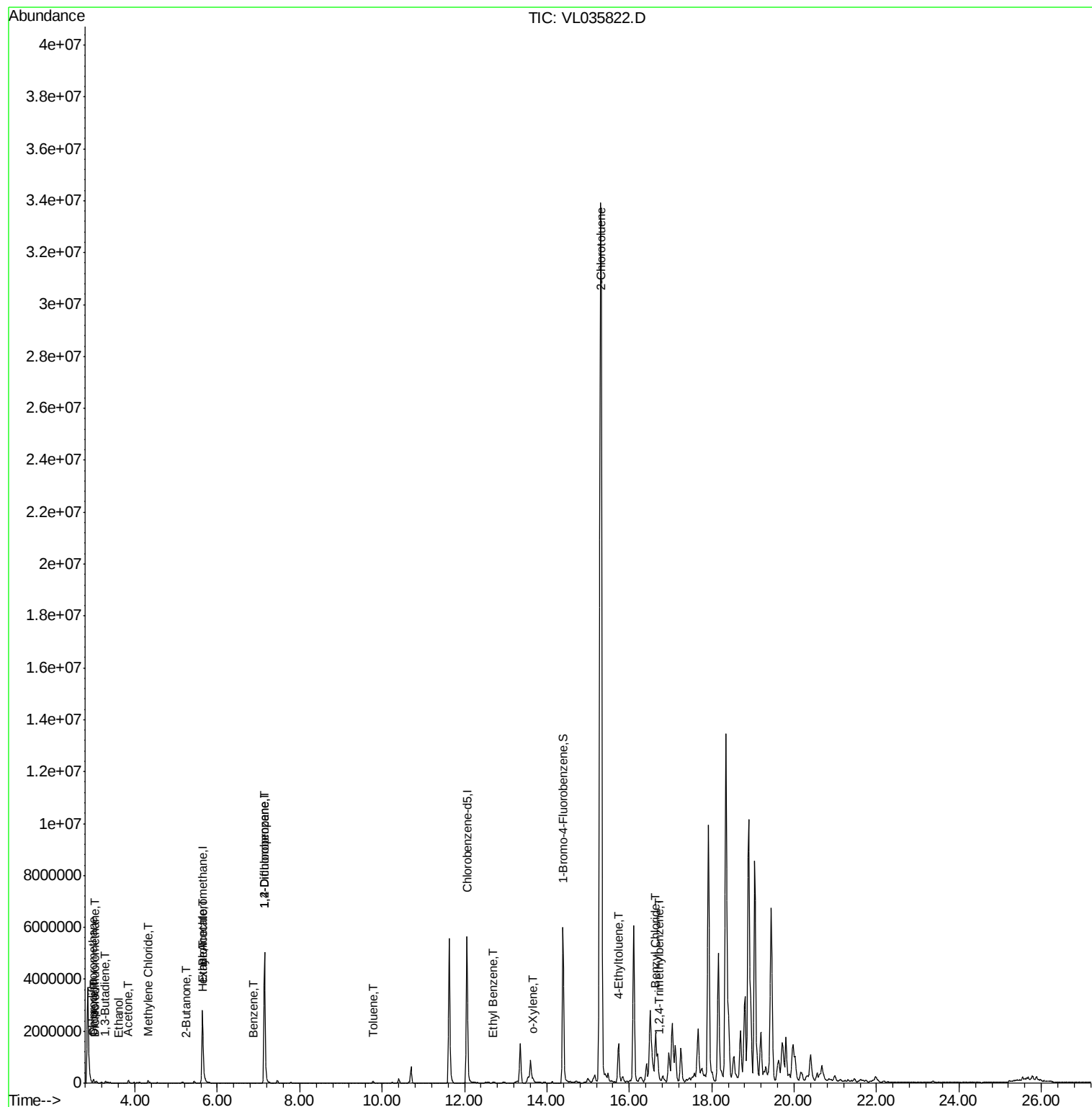
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	15231	0.071	ppbv	96
3) Chlorodifluoromethane	2.97	51	5884	0.043	ppbv	96
9) Propene	2.99	41	61989	1.237	ppbv	97
13) Ethanol	3.60	45	7299	0.671	ppbv #	27
15) Acetone	3.84	43	111988	0.916	ppbv #	80
16) 1,3-Butadiene	3.29	39	27535	0.523	ppbv #	25
20) Methylene Chloride	4.32	84	54634	0.635	ppbv	97
25) Ethyl Acetate	5.66	43	15796	0.066	ppbv #	71
26) Hexane	5.66	57	35804	0.270	ppbv #	48
34) 2-Butanone	5.23	43	5794	0.035	ppbv #	42
36) Benzene	6.86	78	13667	0.036	ppbv	92
39) 1,2-Dichloropropane	7.14	63	932967	7.397	ppbv #	30
53) Toluene	9.78	91	72947	0.161	ppbv	99
58) Ethyl Benzene	12.68	91	24312	0.042	ppbv	91
60) o-Xylene	13.66	91	26183	0.055	ppbv	95
66) Benzyl Chloride	16.64	91	18086	0.081	ppbv #	62
71) 2-Chlorotoluene	15.31	91	12381674	22.806	ppbv #	39
72) 4-Ethyltoluene	15.74	105	30513	0.053	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.74	105	25462	0.045	ppbv #	71

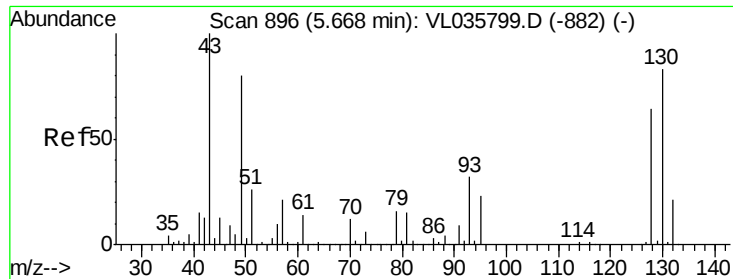
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.03 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

ClientSampleId :

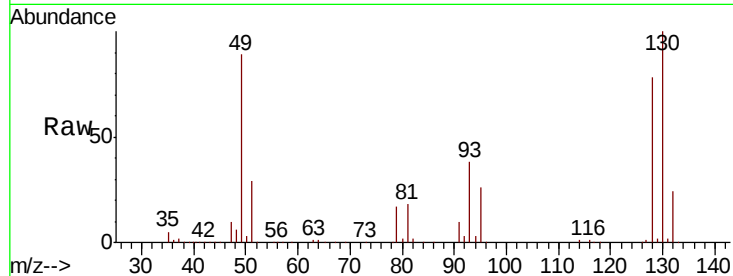
Tot Ion: 49 Resp: 1143547

Ion Ratio Lower Upper

49 100

128 93.5 41.5 124.6

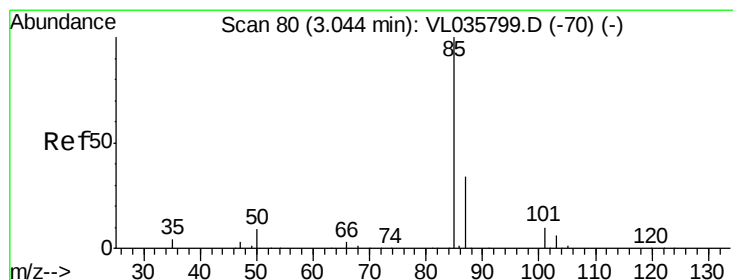
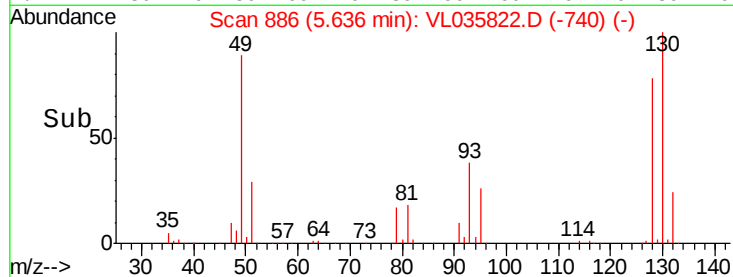
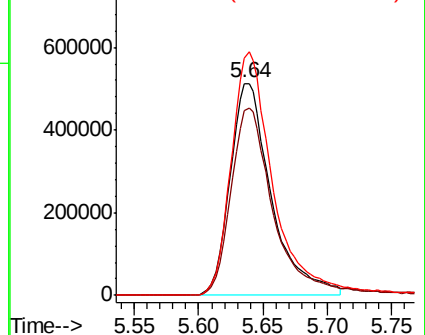
130 120.0 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.071 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035822.D

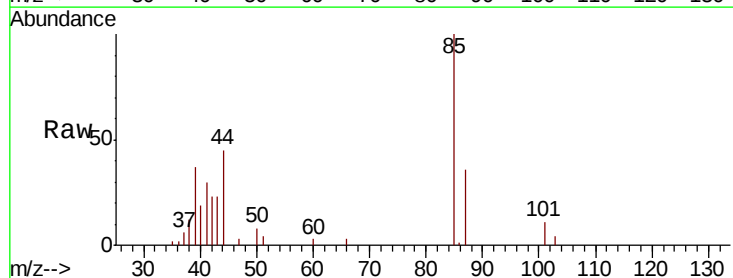
Acq: 4 Nov 2020 3:07

Tgt Ion: 85 Resp: 15231

Ion Ratio Lower Upper

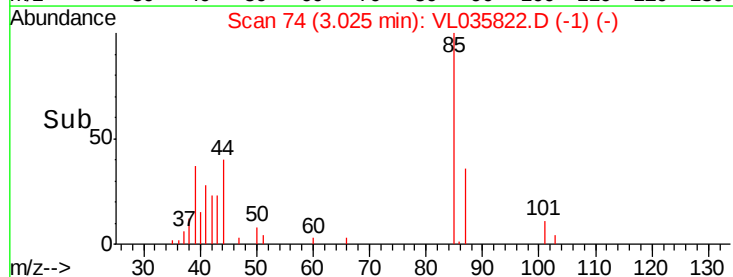
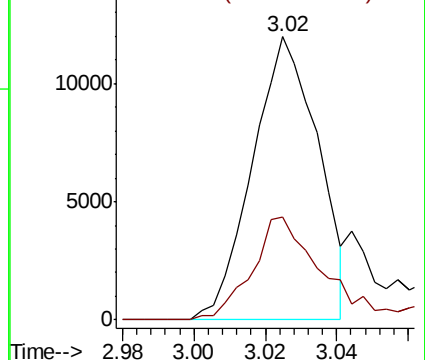
85 100

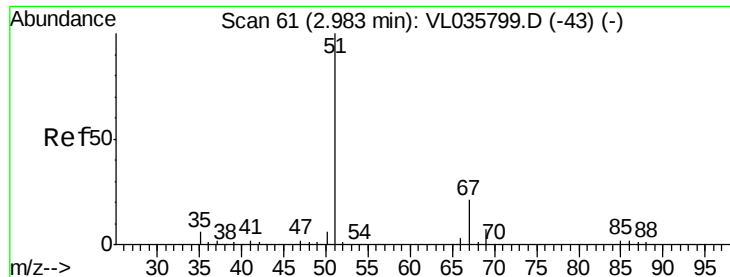
87 36.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

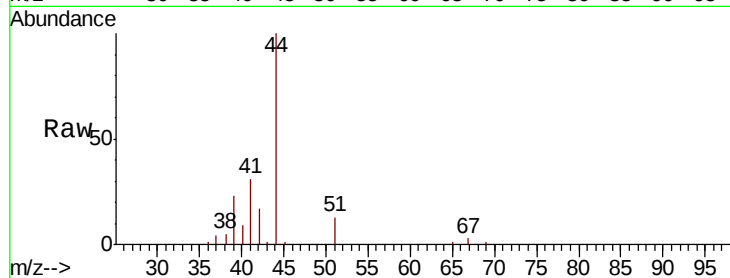
ClientSampleId :

Tot Ion: 51 Resp: 5884

Ion Ratio Lower Upper

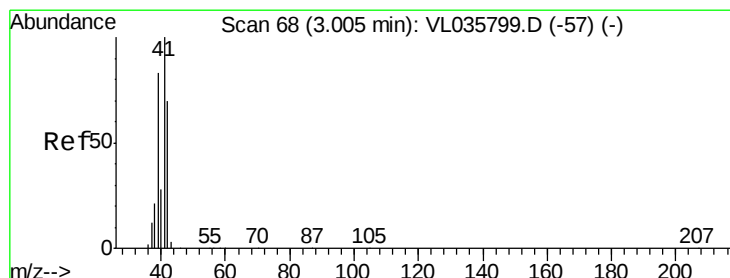
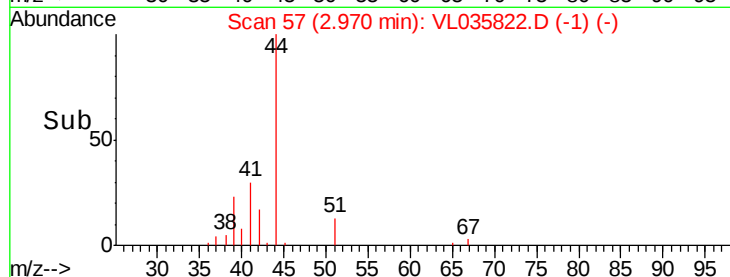
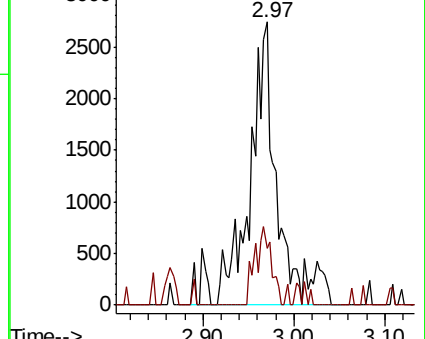
51 100

67 19.4 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: 1.237 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035822.D

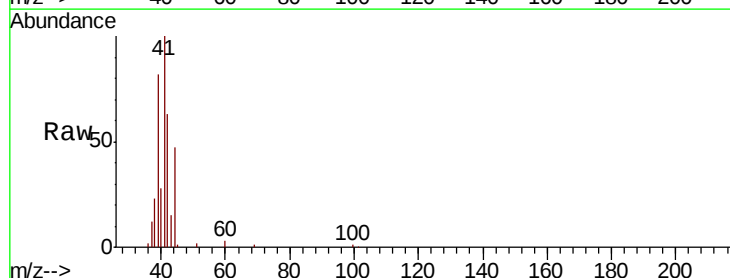
Acq: 4 Nov 2020 3:07

Tgt Ion: 41 Resp: 61989

Ion Ratio Lower Upper

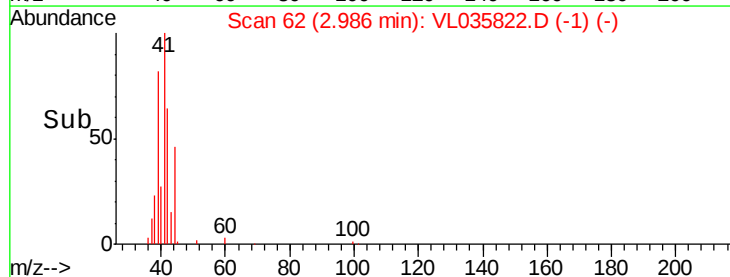
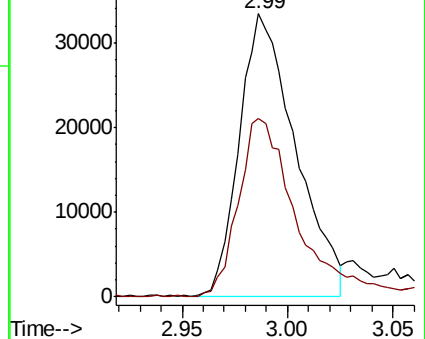
41 100

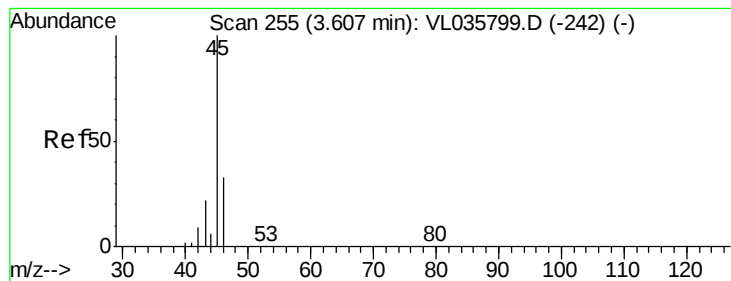
42 67.6 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.671 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

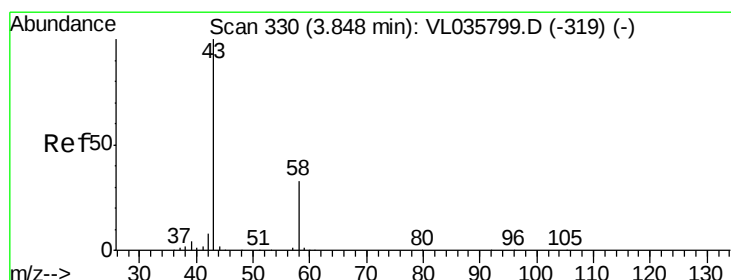
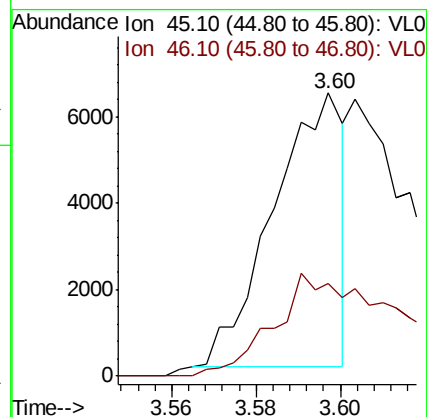
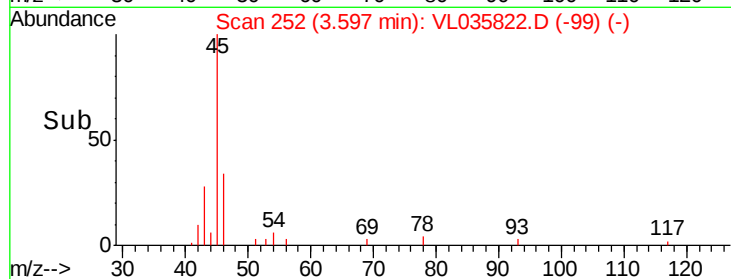
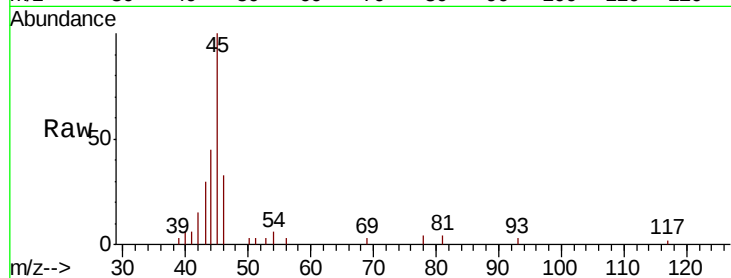
ClientSampleId :

Tot Ion: 45 Resp: 7299

Ion Ratio Lower Upper

45 100

46 85.6 16.1 64.5#



#15

Acetone

Concen: 0.916 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL035822.D

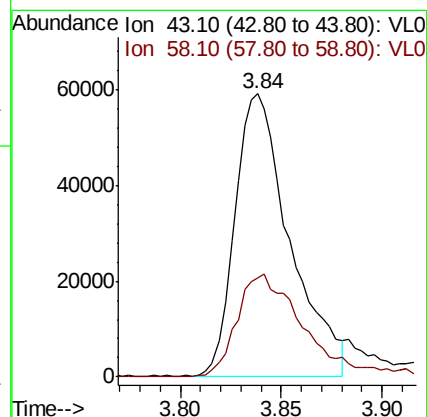
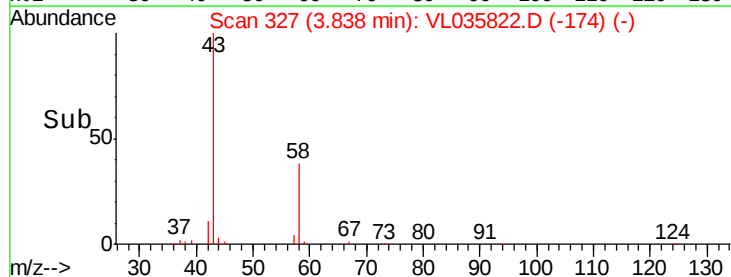
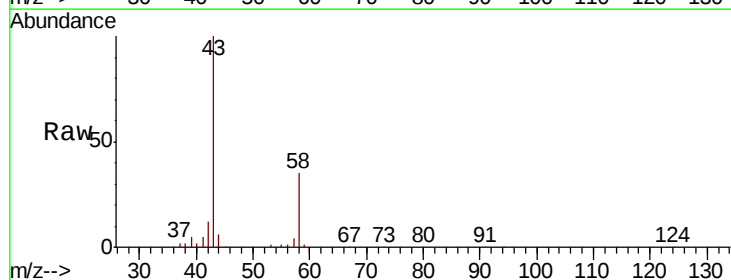
Acq: 4 Nov 2020 3:07

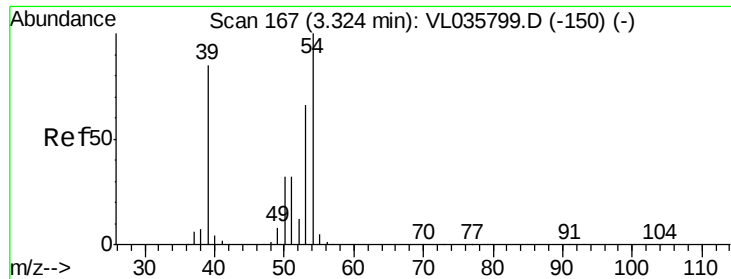
Tgt Ion: 43 Resp: 111988

Ion Ratio Lower Upper

43 100

58 45.8 27.5 41.3#

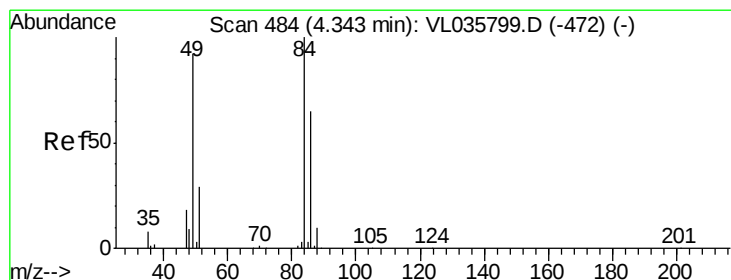
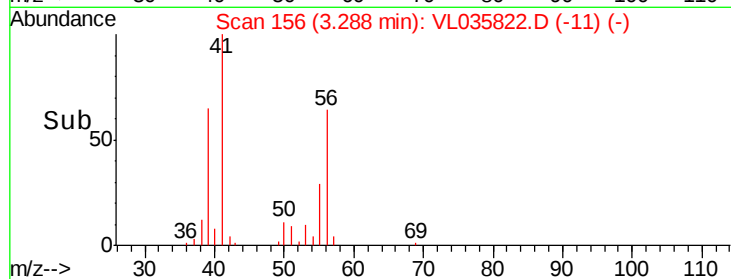
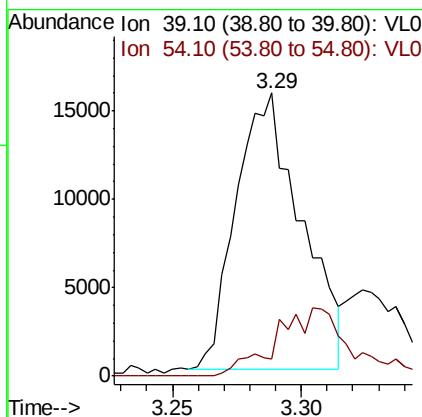
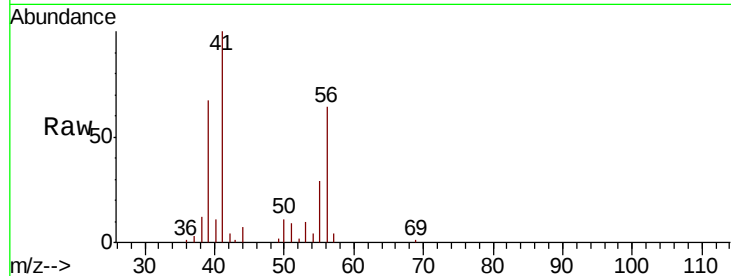




#16
 1,3-Butadiene
 Concen: 0.523 ppbv
 RT: 3.29 min Scan# 156
 Delta R.T. -0.04 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

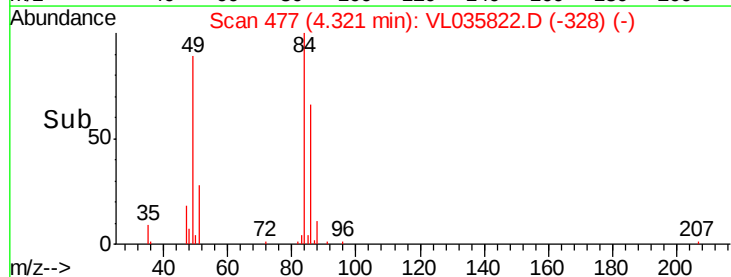
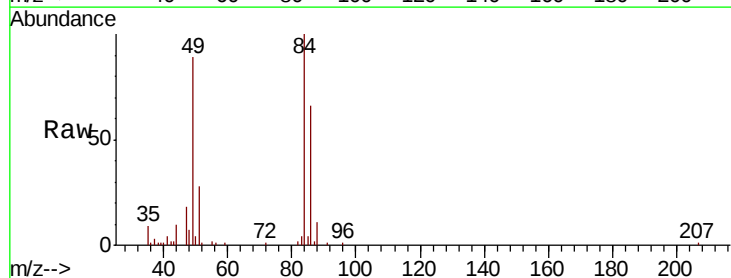
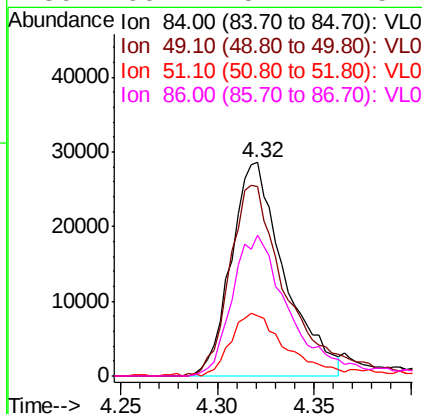
Instrument :
 MSVOA_L
 ClientSampled :

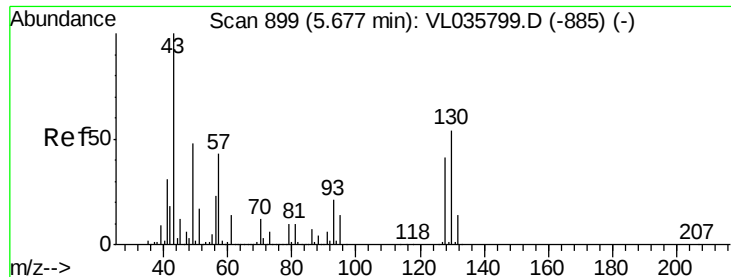
Tot Ion: 39 Resp: 27535
 Ion Ratio Lower Upper
 39 100
 54 29.8 87.1 130.7#



#20
 Methylene Chloride
 Concen: 0.635 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

Tgt Ion: 84 Resp: 54634
 Ion Ratio Lower Upper
 84 100
 49 88.0 73.8 110.8
 51 28.1 23.0 34.4
 86 66.1 52.1 78.1

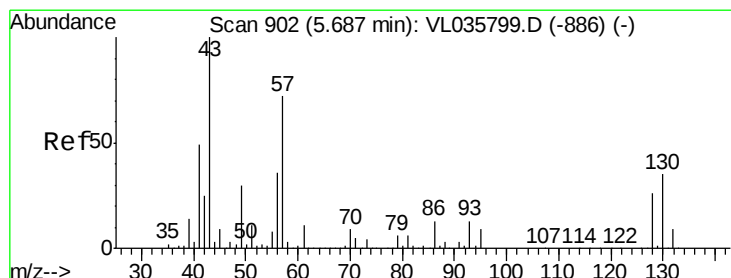
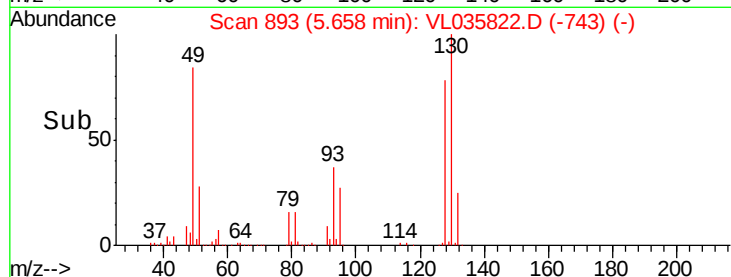
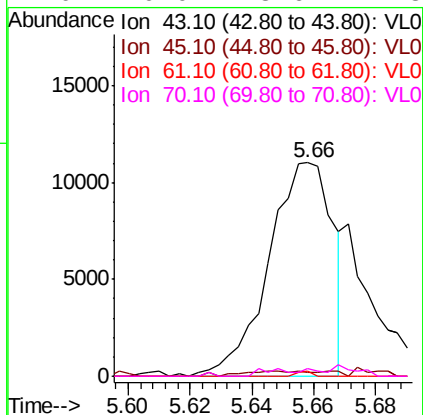
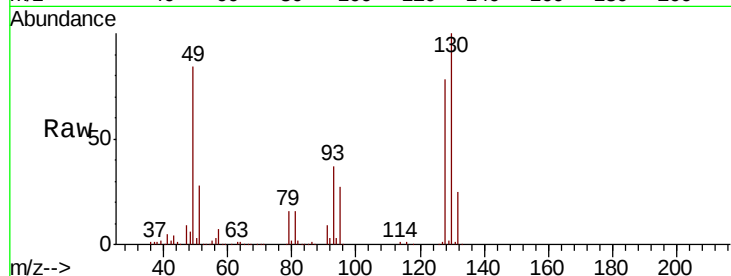




#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035822.D
Acq: 4 Nov 2020 3:07

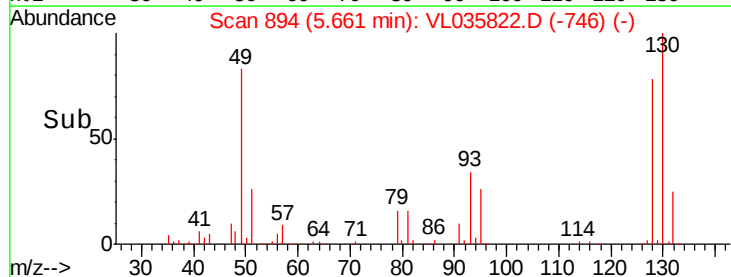
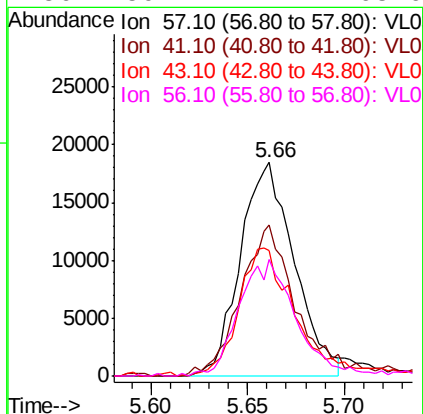
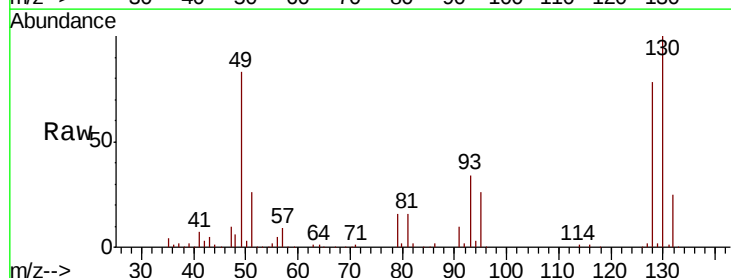
Instrument :
MSVOA_L
ClientSampleId :

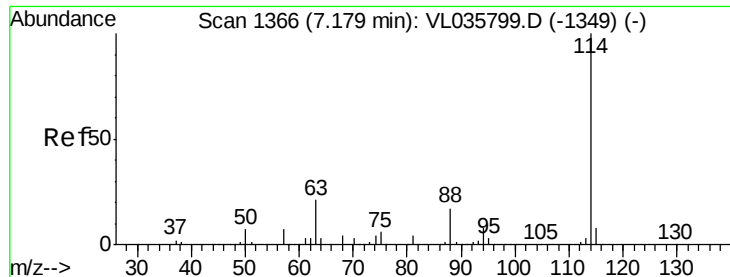
Tot Ion:	43	Resp:	15796
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.5	12.7#
61	0.5	10.7	16.1#
70	0.0	8.6	12.8#



#26
Hexane
Concen: 0.270 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035822.D
Acq: 4 Nov 2020 3:07

Tgt Ion:	57	Resp:	35804
Ion	Ratio	Lower	Upper
57	100		
41	75.3	58.9	88.3
43	65.6	150.2	225.2#
56	59.2	42.4	63.6

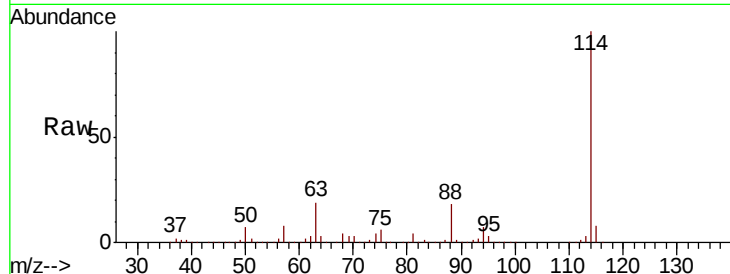




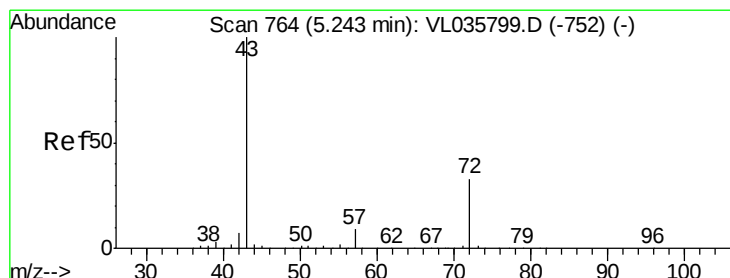
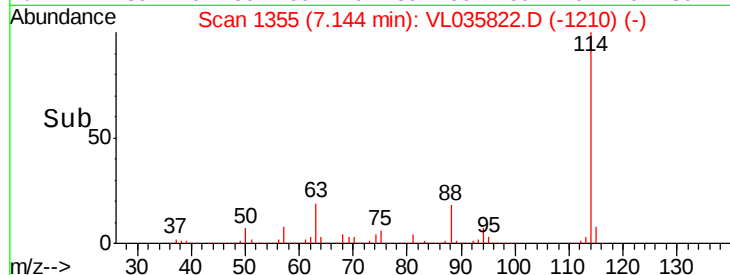
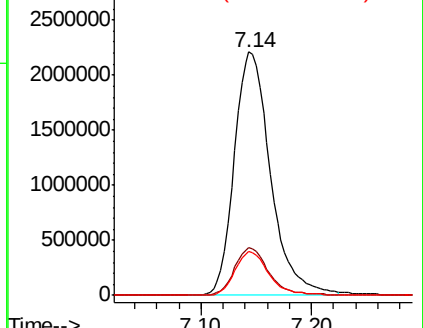
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1355
 Delta R.T. -0.04 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 5039306
 Ion Ratio Lower Upper
 114 100
 63 18.6 16.1 24.1
 88 17.0 13.7 20.5

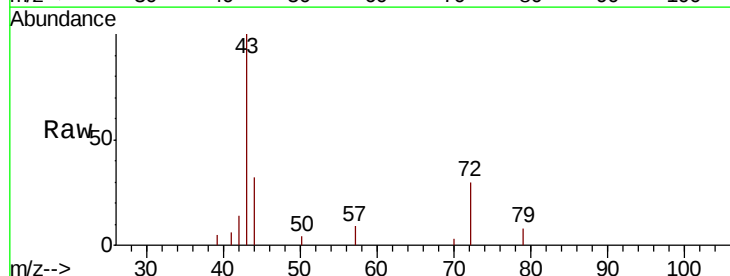


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

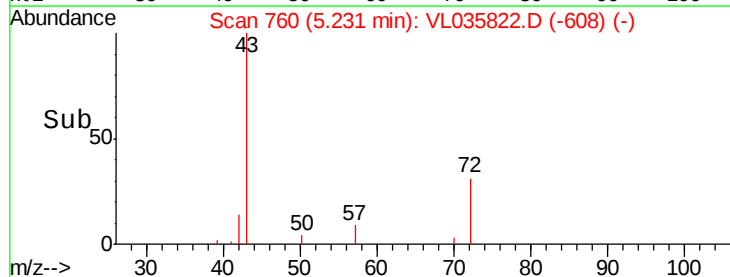
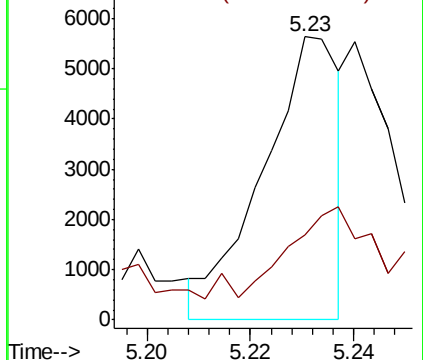


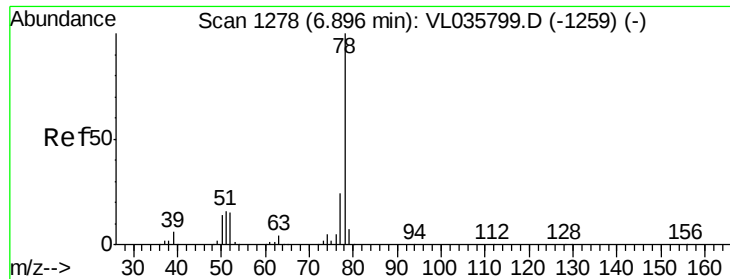
#34
 2-Butanone
 Concen: 0.035 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

Tgt Ion: 43 Resp: 5794
 Ion Ratio Lower Upper
 43 100
 72 0.0 26.5 39.7#



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





#36

Benzene

Concen: 0.036 ppbv

RT: 6.86 min Scan# 1266

Delta R.T. -0.04 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

ClientSampleId :

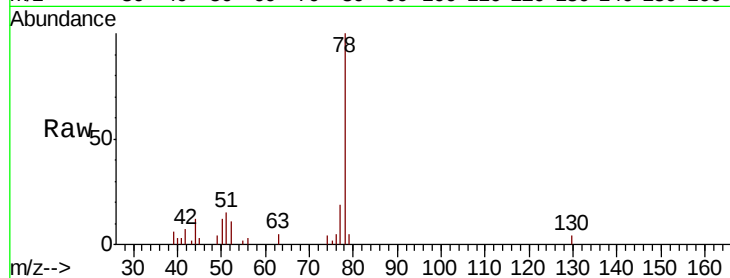
Tot Ion: 78 Resp: 13667

Ion Ratio Lower Upper

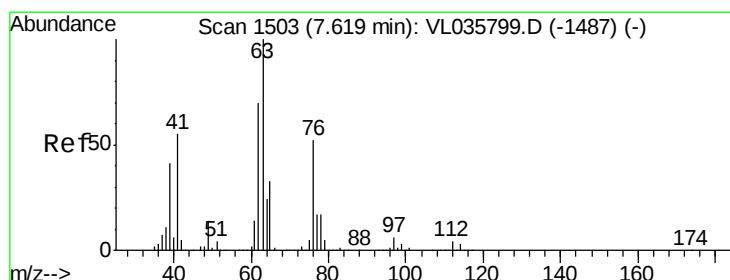
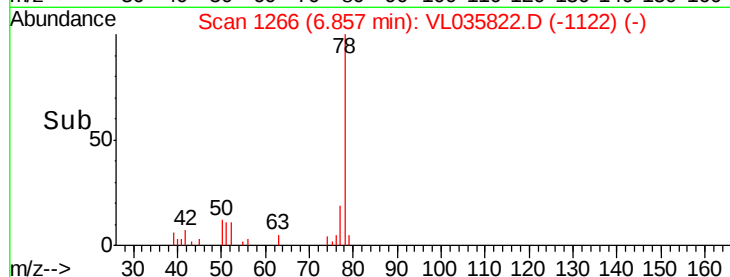
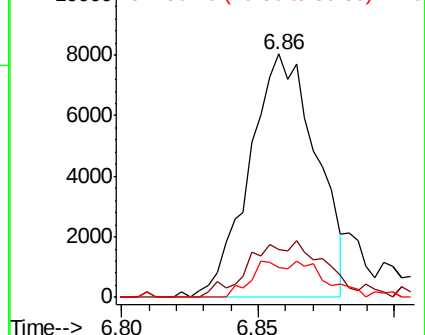
78 100

77 19.5 19.3 28.9

50 12.4 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.397 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.48 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

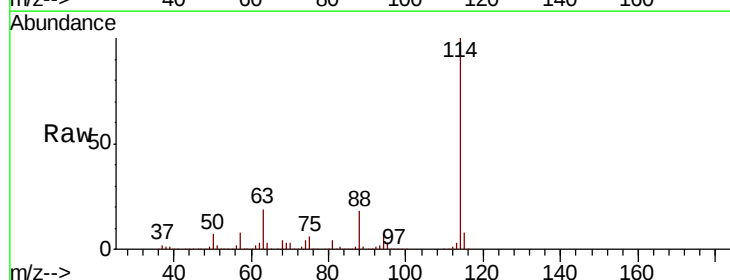
Tgt Ion: 63 Resp: 932967

Ion Ratio Lower Upper

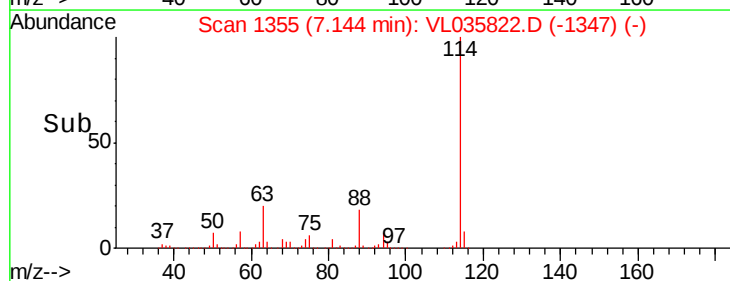
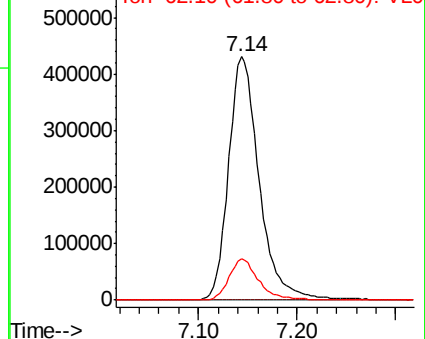
63 100

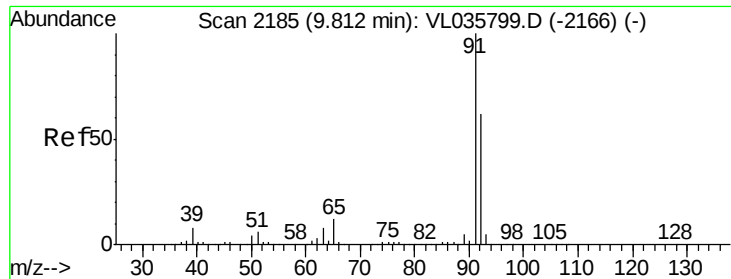
41 0.1 43.8 65.6#

62 16.9 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.161 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

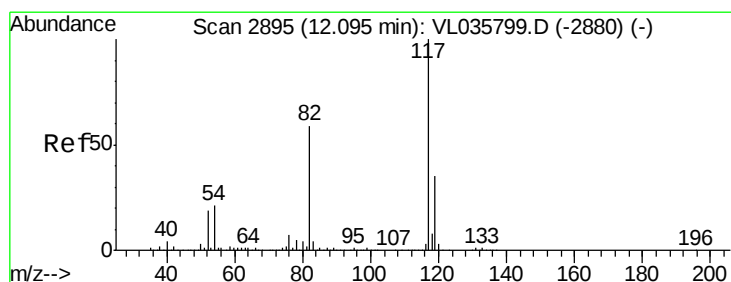
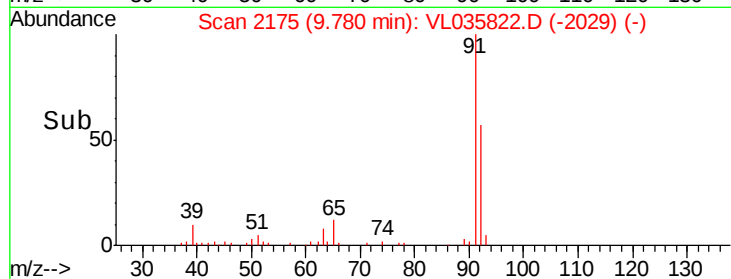
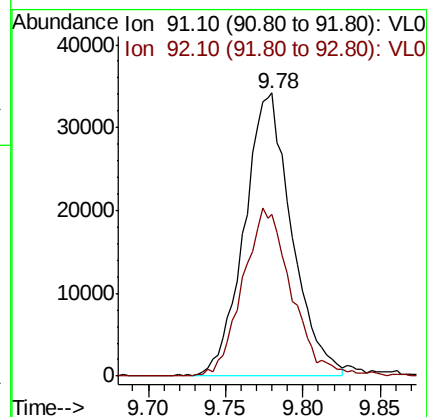
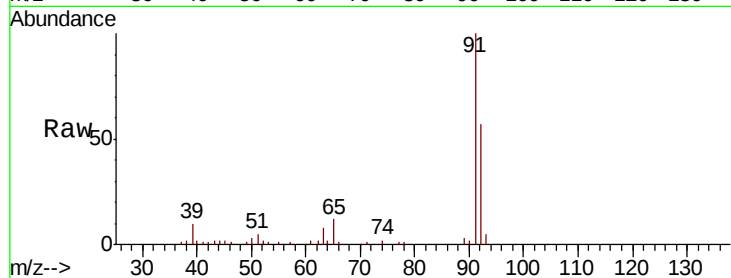
ClientSampleId :

Tot Ion: 91 Resp: 72947

Ion Ratio Lower Upper

91 100

92 61.2 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.04 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

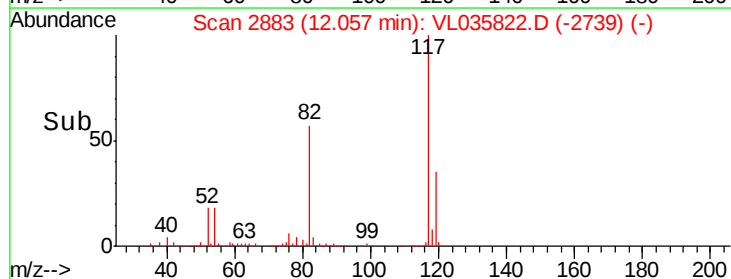
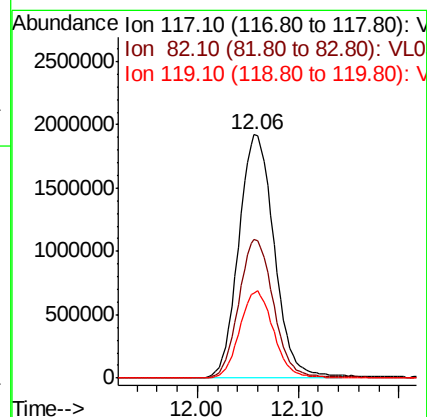
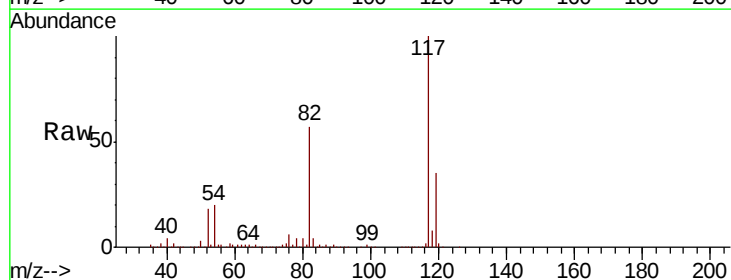
Tgt Ion: 117 Resp: 4711153

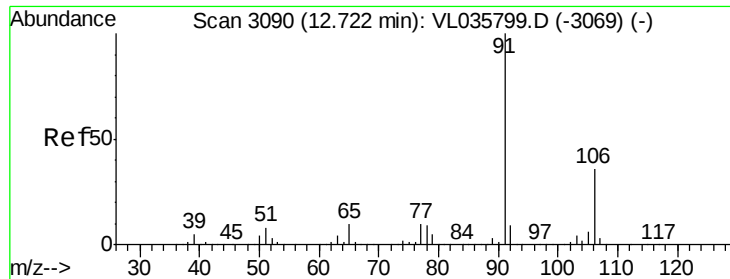
Ion Ratio Lower Upper

117 100

82 56.5 50.6 76.0

119 34.7 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.042 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.04 min

Lab File: VL035822.D

Acq: 4 Nov 2020 3:07

Instrument :

MSVOA_L

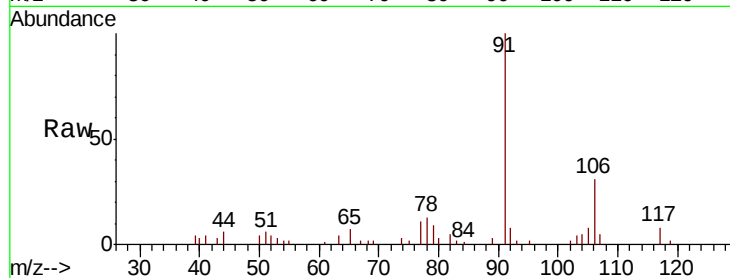
ClientSampled :

Tot Ion: 91 Resp: 24312

Ion Ratio Lower Upper

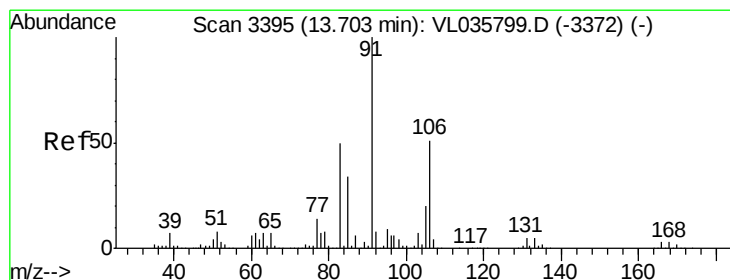
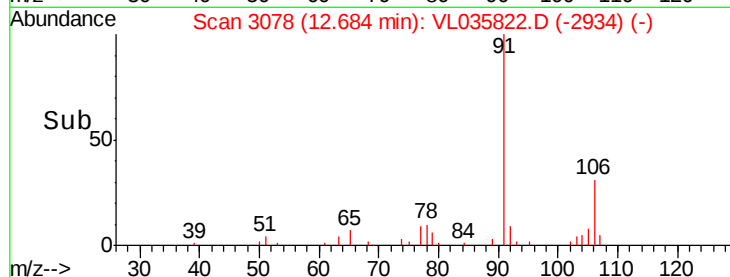
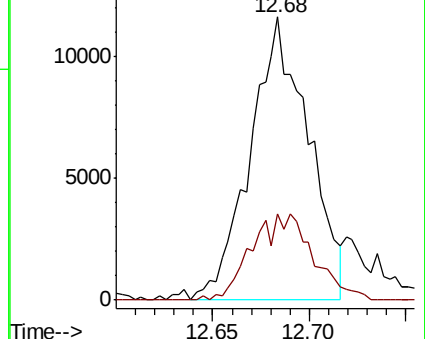
91 100

106 30.5 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.055 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.04 min

Lab File: VL035822.D

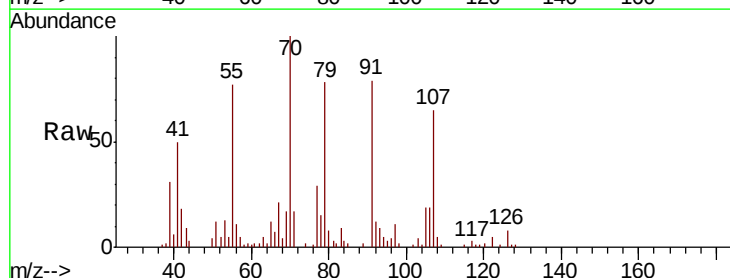
Acq: 4 Nov 2020 3:07

Tgt Ion: 91 Resp: 26183

Ion Ratio Lower Upper

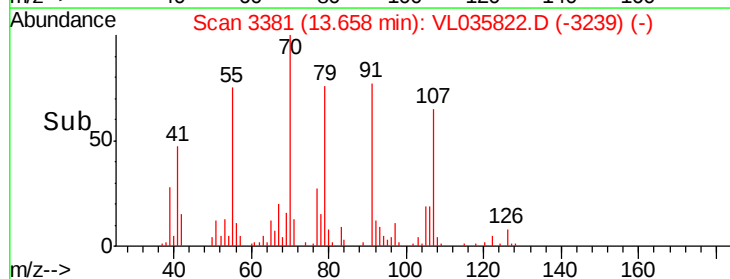
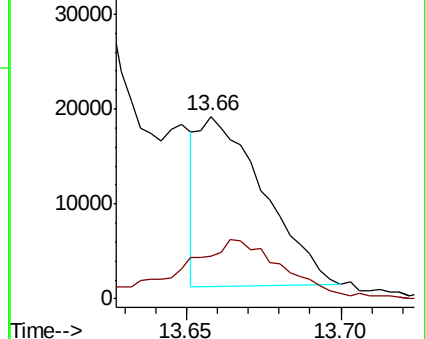
91 100

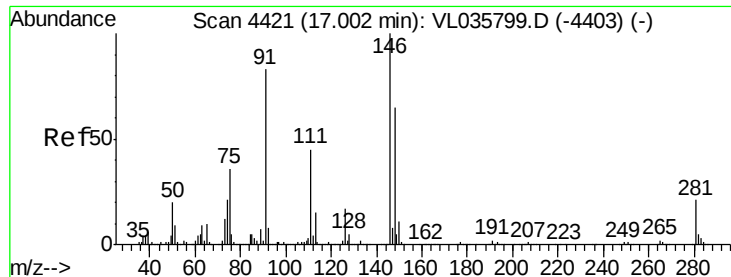
106 53.3 24.8 74.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

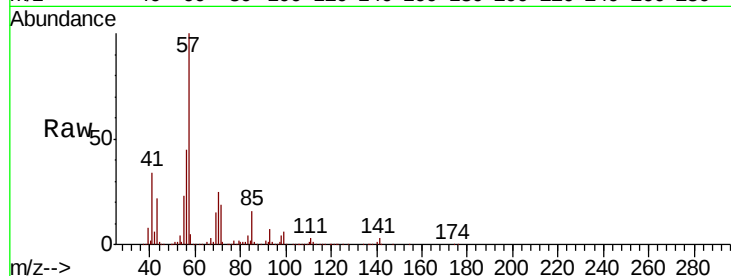




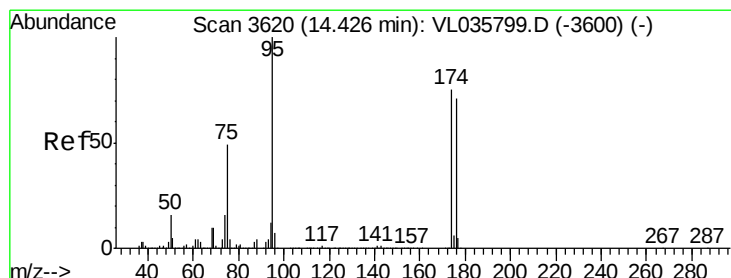
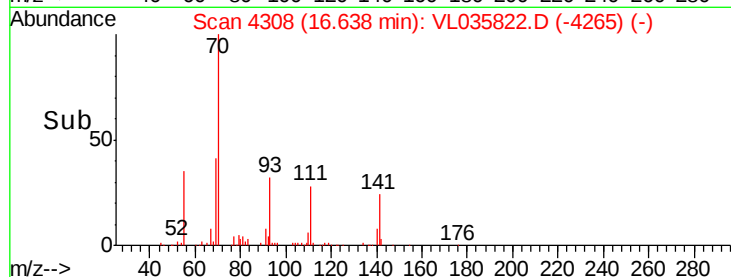
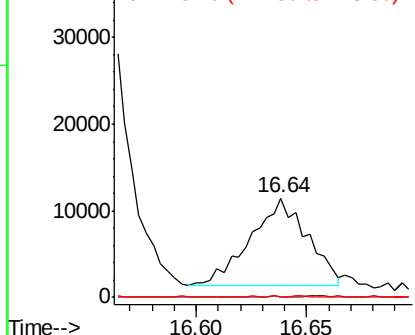
#66
Benzyl Chloride
Concen: 0.081 ppbv
RT: 16.64 min Scan# 4308
Delta R.T. -0.36 min
Lab File: VL035822.D
Acq: 4 Nov 2020 3:07

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 18086
Ion Ratio Lower Upper
91 100
126 0.0 16.0 24.0#
128 0.0 5.0 7.4#

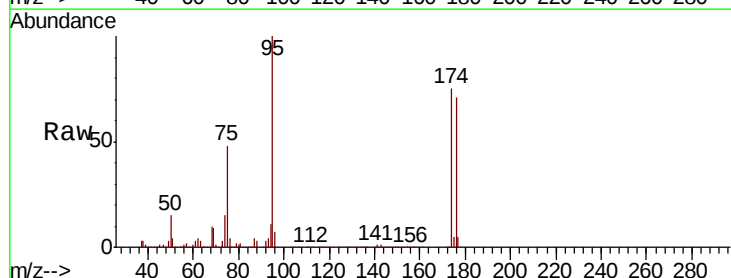


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

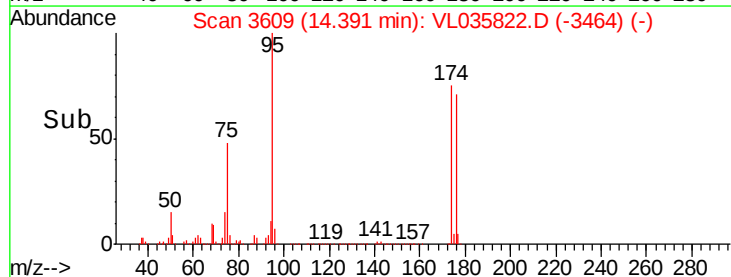
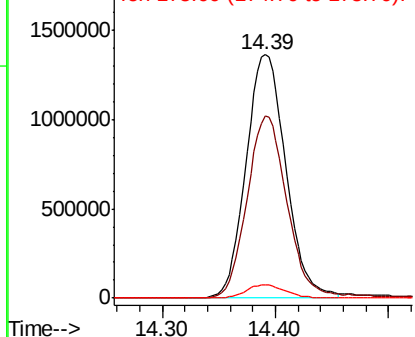


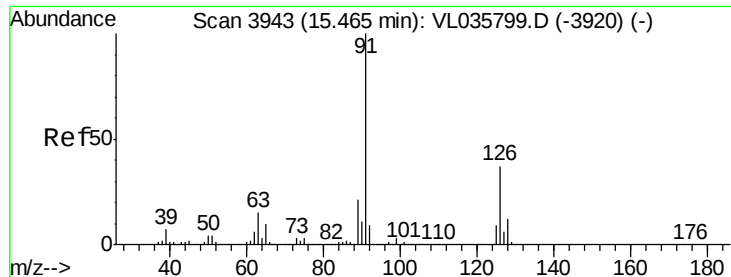
#68
1-Bromo-4-Fluorobenzene
Concen: 10.000 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035822.D
Acq: 4 Nov 2020 3:07

Tgt Ion: 95 Resp: 3347220
Ion Ratio Lower Upper
95 100
174 77.1 59.8 89.6
175 5.6 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

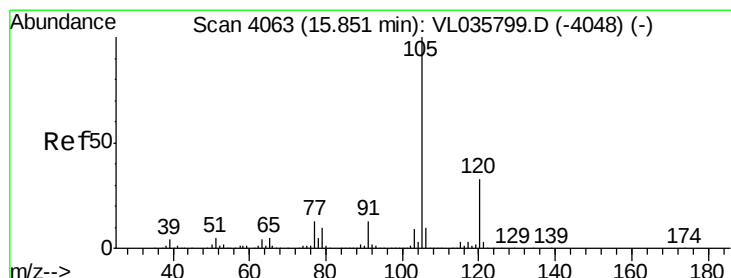
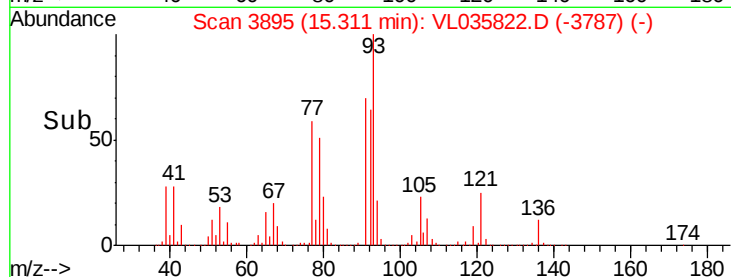
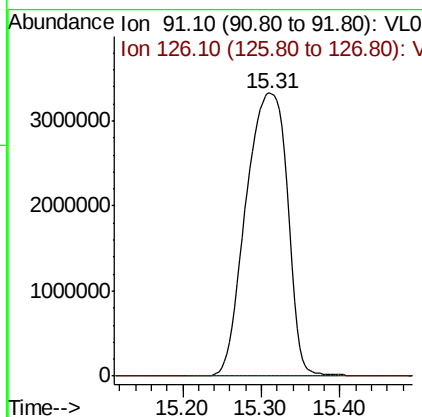
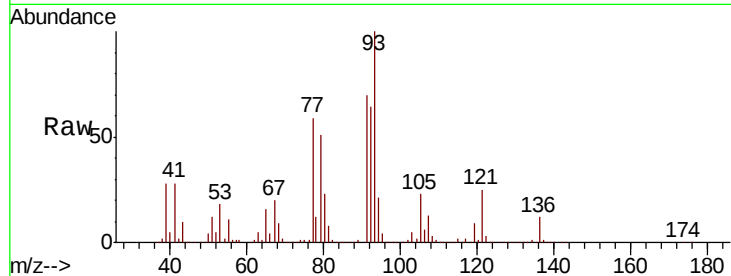




#71
 2-Chlorotoluene
 Concen: 22.806 ppbv
 RT: 15.31 min Scan# 3895
 Delta R.T. -0.15 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

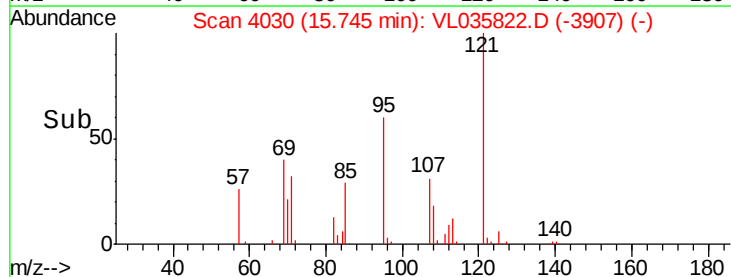
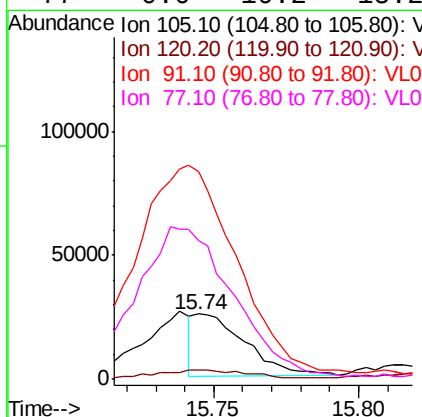
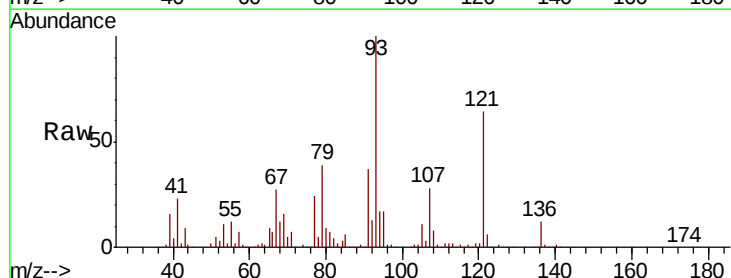
Instrument :
 MSVOA_L
 ClientSampleId :

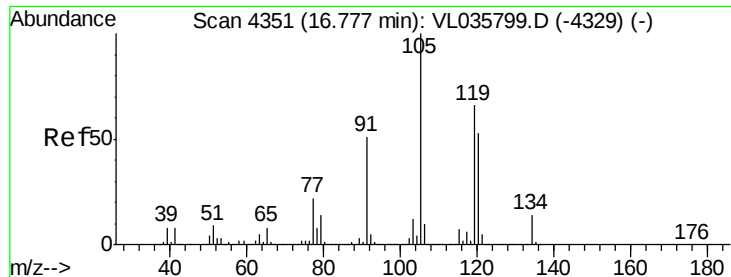
Tot Ion: 91 Resp:12381674
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.3 57.1#



#72
 4-Ethyltoluene
 Concen: 0.053 ppbv
 RT: 15.74 min Scan# 4030
 Delta R.T. -0.11 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

Tgt Ion:105 Resp: 30513
 Ion Ratio Lower Upper
 105 100
 120 30.1 25.9 38.9
 91 725.8 9.9 14.9#
 77 0.0 10.2 15.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.045 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.04 min
 Lab File: VL035822.D
 Acq: 4 Nov 2020 3:07

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	25462
Ion Ratio	Lower	Upper	
105	100		
120	49.6	42.0	63.0
91	10.9	41.0	61.6#
77	12.5	17.3	25.9#

