

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035015.D
 Acq On : 13 May 2020 9:56
 Operator : SY/AP
 Sample : L2566-07DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-OFF-SITEDL

Quant Time: May 14 00:44:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	796217	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	1947493	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	1783332	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1432179	9.92	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

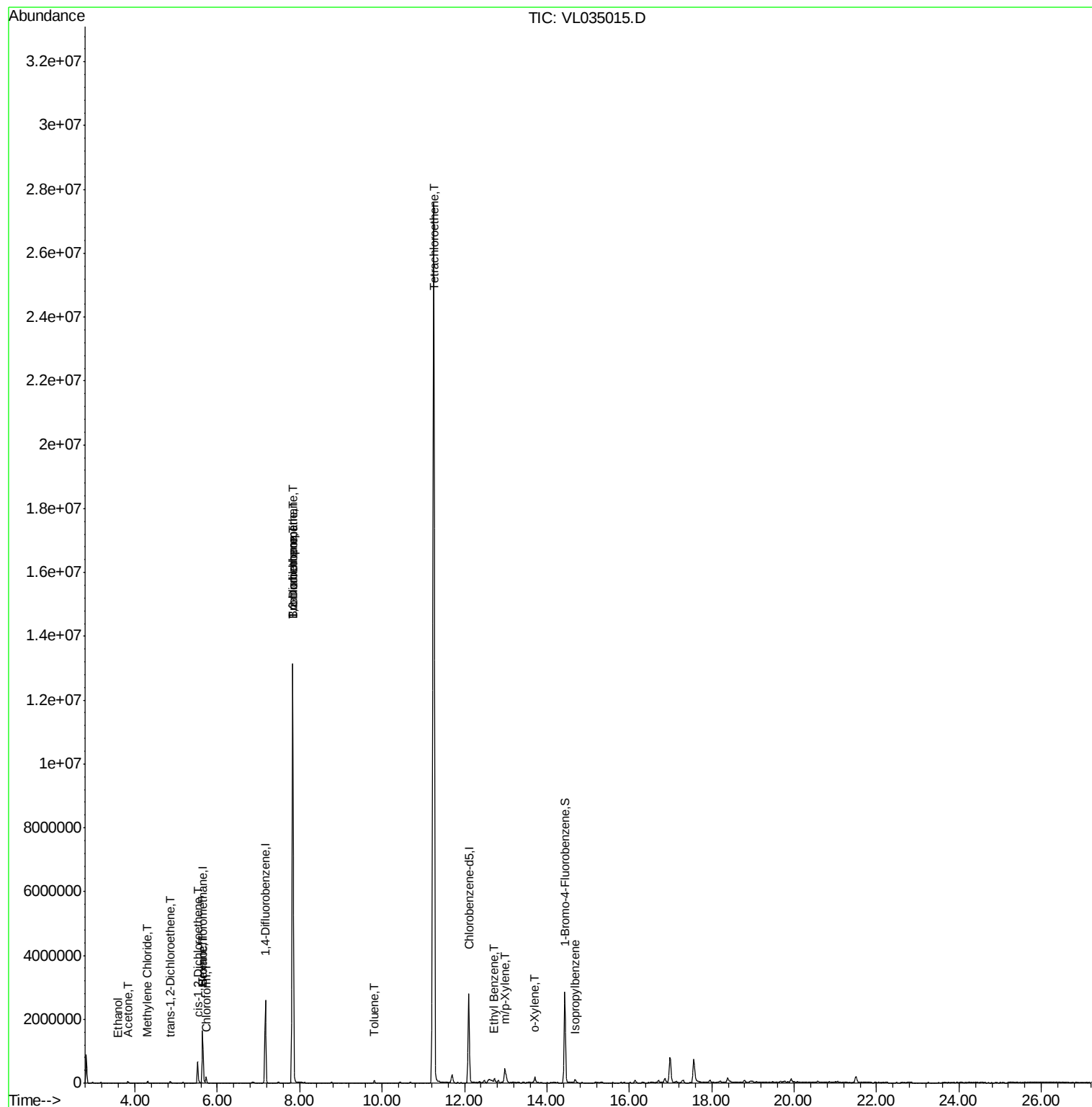
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.58	45	3513	0.270	ppbv #	44
15) Acetone	3.83	43	45543	0.433	ppbv #	87
20) Methylene Chloride	4.31	84	7934	0.228	ppbv	87
22) trans-1,2-Dichloroethene	4.85	96	10125	0.284	ppbv	91
26) Hexane	5.65	57	5096	0.066	ppbv #	51
29) Chloroform	5.72	83	117920	0.940	ppbv	86
31) cis-1,2-Dichloroethene	5.53	61	368662	4.929	ppbv	99
38) Trichloroethene	7.83	130	4621489	74.297	ppbv	95
39) 1,2-Dichloropropane	7.83	63	20927	0.325	ppbv #	1
42) Bromodichloromethane	7.83	83	31932	0.239	ppbv #	83
52) Tetrachloroethene	11.26	164	9236409	161.778	ppbv	91
53) Toluene	9.82	91	56064	0.329	ppbv	98
58) Ethyl Benzene	12.73	91	125642	0.570	ppbv	93
59) m/p-Xylene	12.98	91	444519	2.291	ppbv #	59
60) o-Xylene	13.71	91	134249	0.701	ppbv	100
62) Isopropylbenzene	14.69	105	93051	0.326	ppbv	99

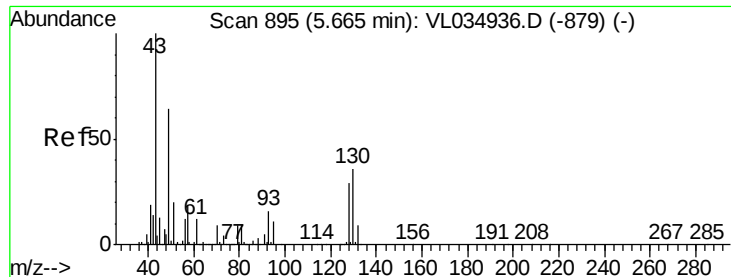
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITEDL

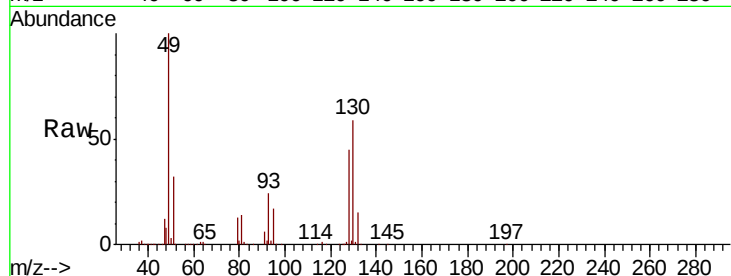
Tot Ion: 49 Resp: 796217

Ion Ratio Lower Upper

49 100

128 45.4 22.1 66.5

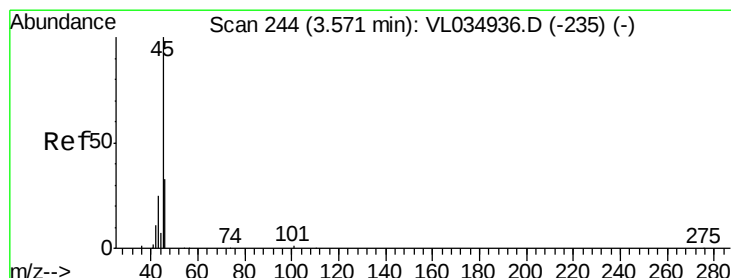
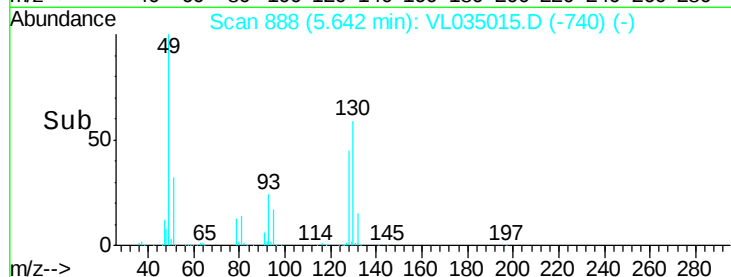
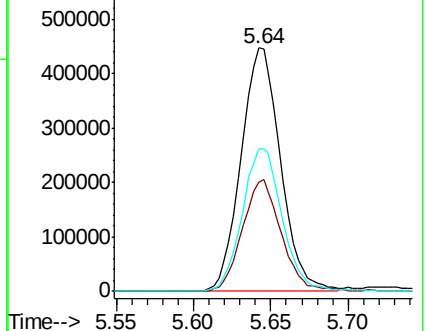
130 59.6 29.1 87.3



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



#13

Ethanol

Concen: 0.270 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL035015.D

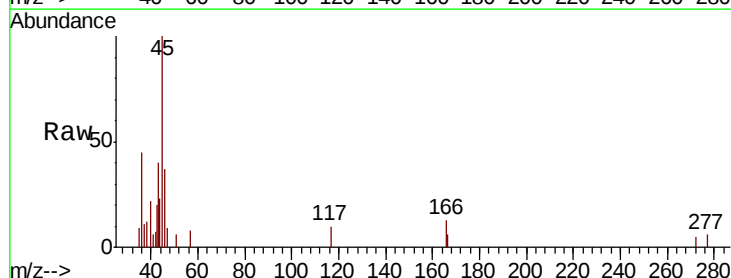
Acq: 13 May 2020 9:56

Tgt Ion: 45 Resp: 3513

Ion Ratio Lower Upper

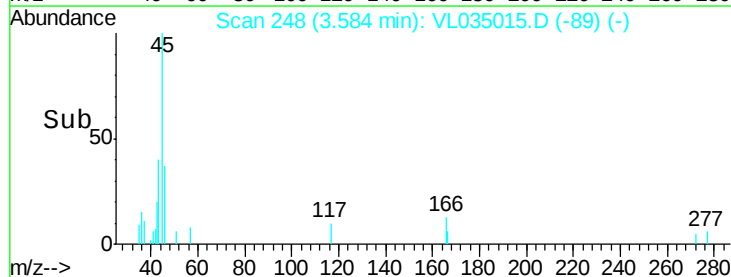
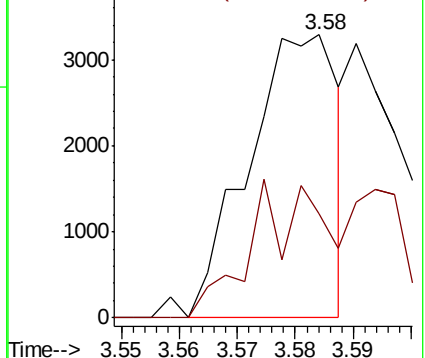
45 100

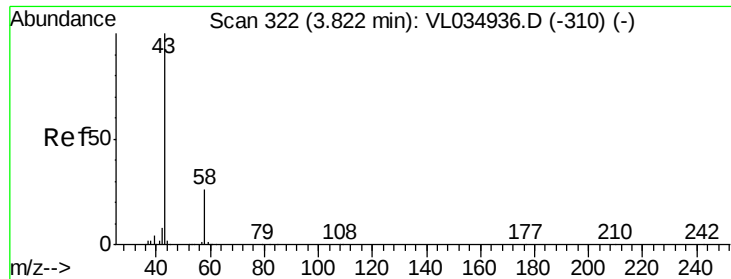
46 68.9 14.3 57.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.433 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

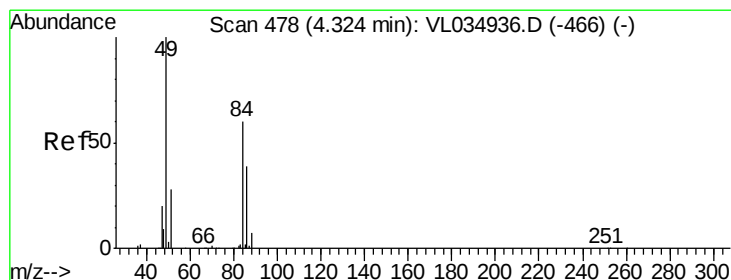
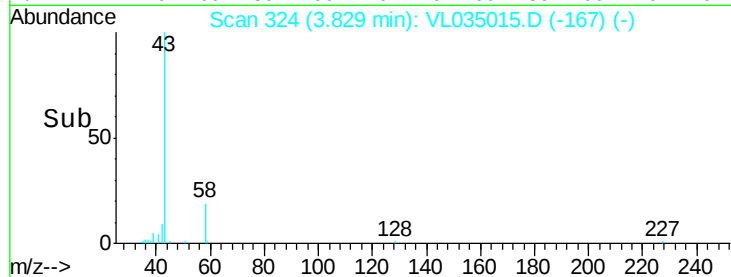
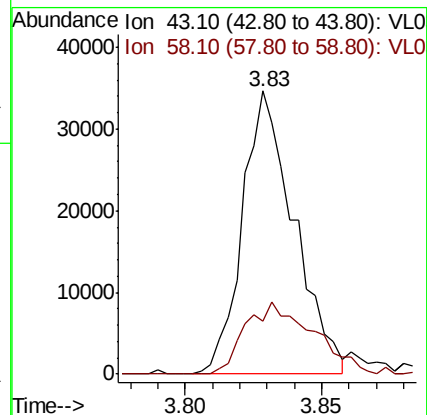
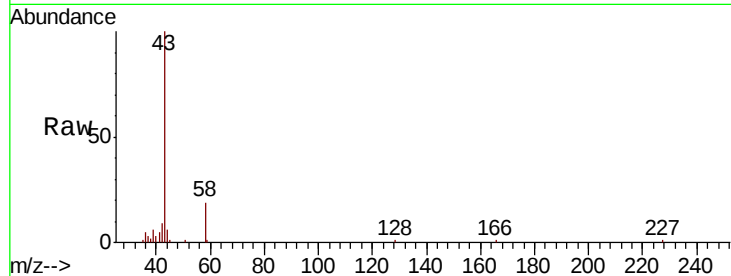
SG-OFF-SITEDL

Tot Ion: 43 Resp: 45543

Ion Ratio Lower Upper

43 100

58 33.6 21.7 32.5#



#20

Methylene Chloride

Concen: 0.228 ppbv

RT: 4.31 min Scan# 474

Delta R.T. -0.01 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Tgt Ion: 84 Resp: 7934

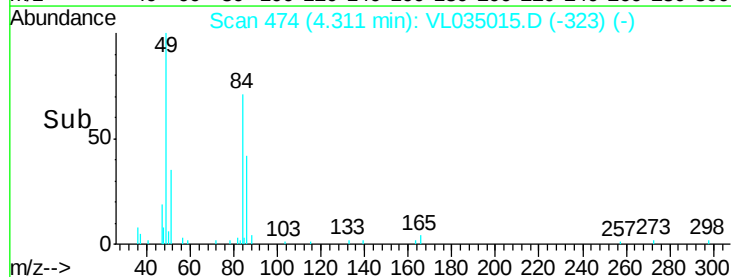
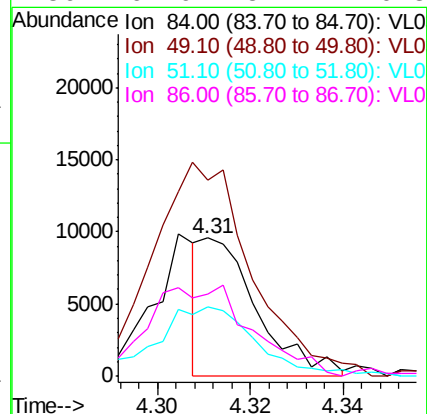
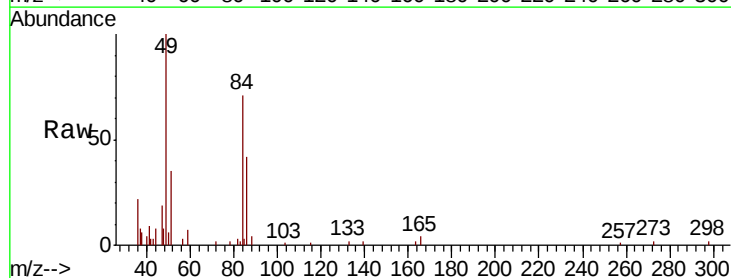
Ion Ratio Lower Upper

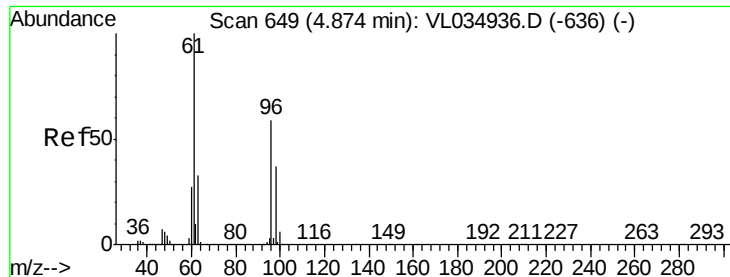
84 100

49 137.4 132.5 198.7

51 47.0 38.4 57.6

86 61.9 51.2 76.8





#22

trans-1,2-Dichloroethene

Concen: 0.284 ppbv

RT: 4.85 min Scan# 643

Delta R.T. -0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITEDL

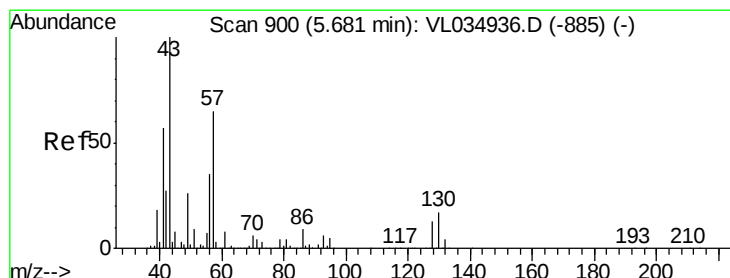
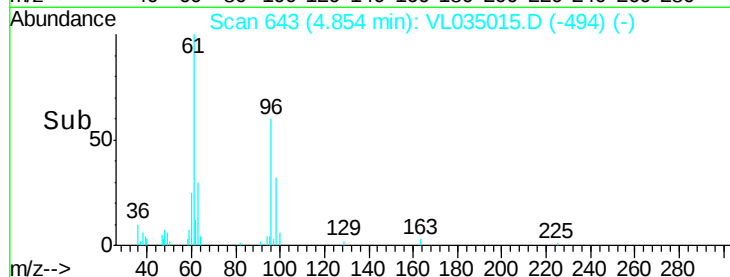
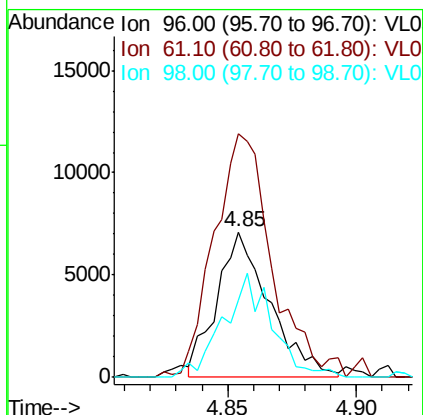
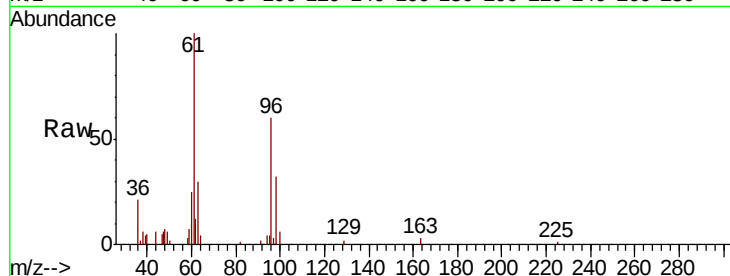
Tot Ion: 96 Resp: 10125

Ion Ratio Lower Upper

96 100

61 159.0 135.3 202.9

98 52.6 50.4 75.6



#26

Hexane

Concen: 0.066 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Tgt Ion: 57 Resp: 5096

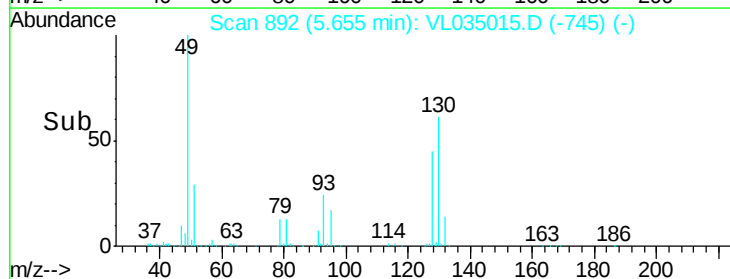
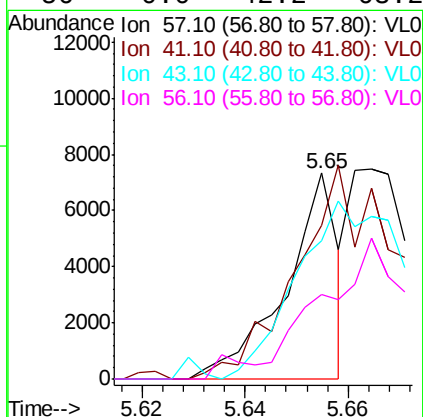
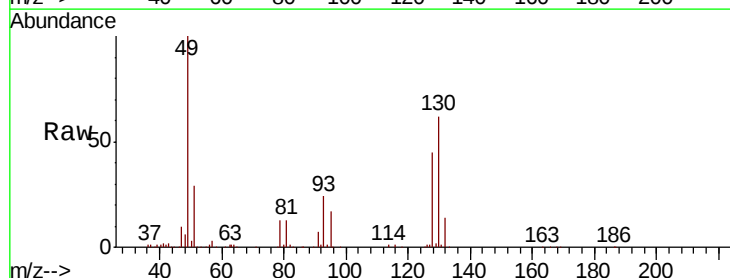
Ion Ratio Lower Upper

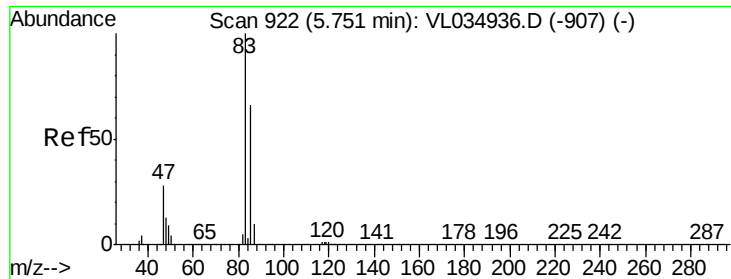
57 100

41 230.5 72.7 109.1#

43 220.7 182.1 273.1

56 0.0 42.2 63.2#





#29

Chloroform

Concen: 0.940 ppbv

RT: 5.72 min Scan# 913

Delta R.T. -0.03 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

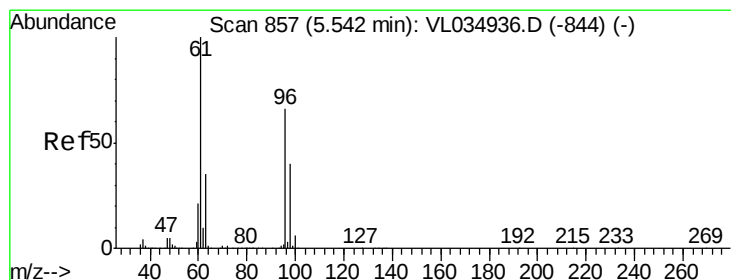
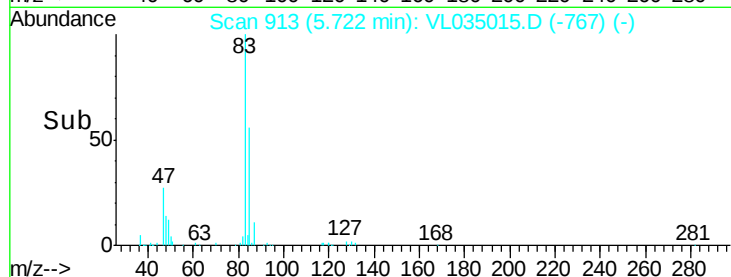
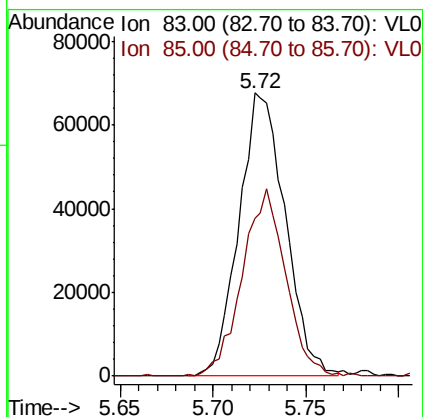
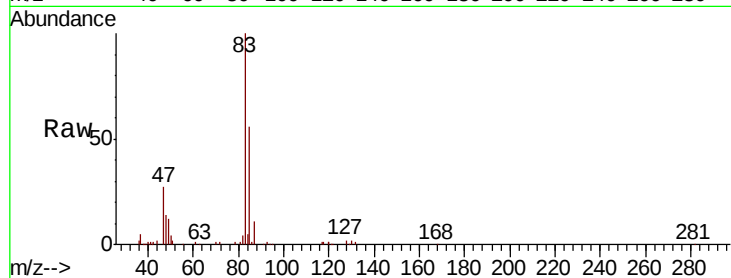
SG-OFF-SITEDL

Tot Ion: 83 Resp: 117920

Ion Ratio Lower Upper

83 100

85 55.2 53.0 79.6



#31

cis-1,2-Dichloroethene

Concen: 4.929 ppbv

RT: 5.53 min Scan# 852

Delta R.T. -0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

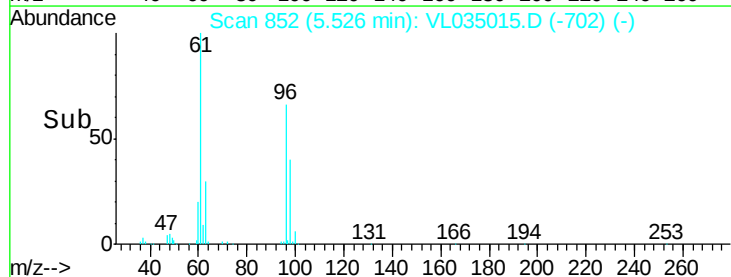
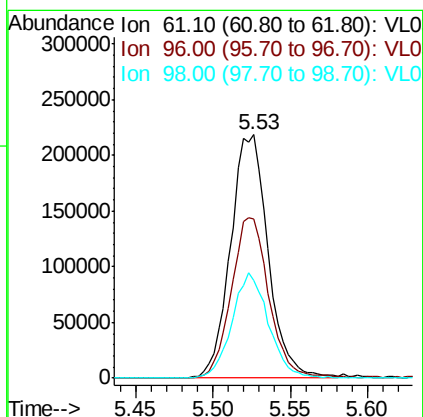
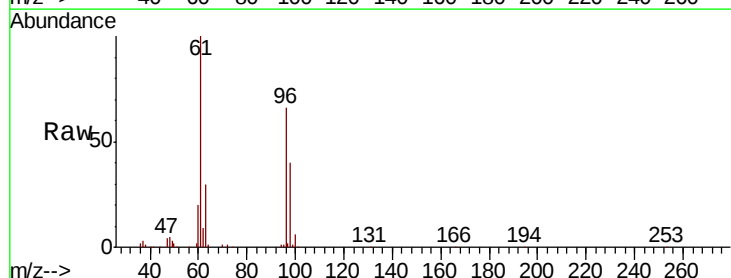
Tgt Ion: 61 Resp: 368662

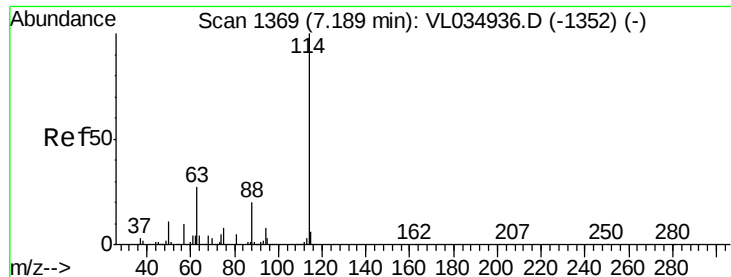
Ion Ratio Lower Upper

61 100

96 65.4 53.0 79.6

98 40.0 32.2 48.2

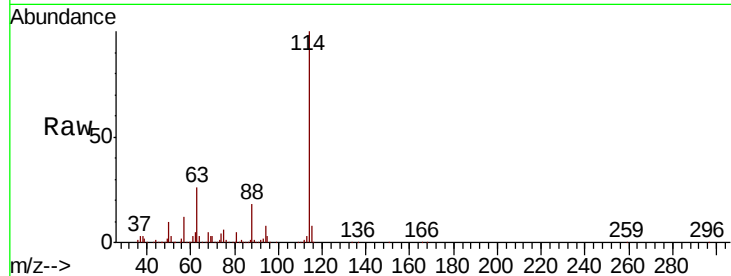




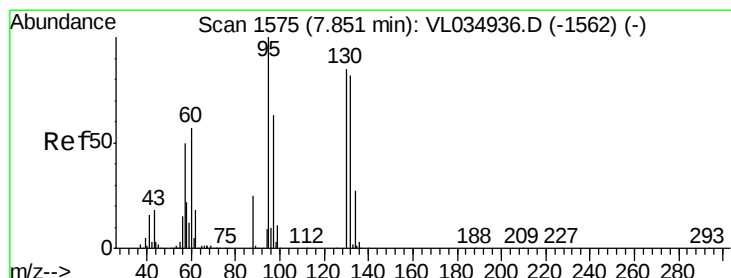
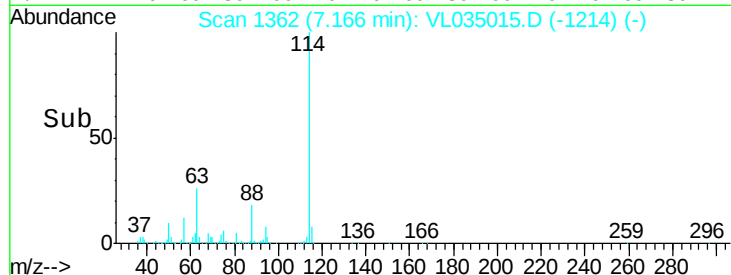
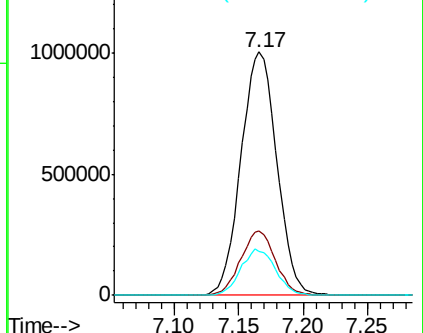
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL035015.D
 Acq: 13 May 2020 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-OFF-SITEDL

Tot Ion:114 Resp: 1947493
 Ion Ratio Lower Upper
 114 100
 63 25.6 22.2 33.4
 88 18.5 15.5 23.3

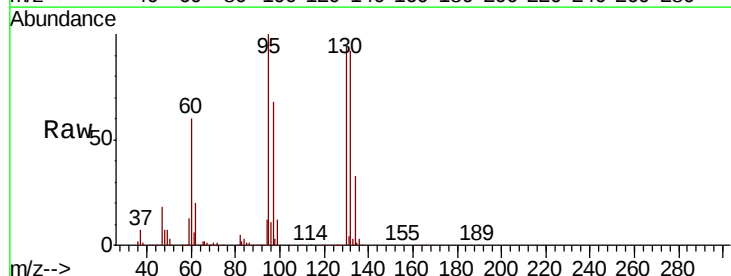


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

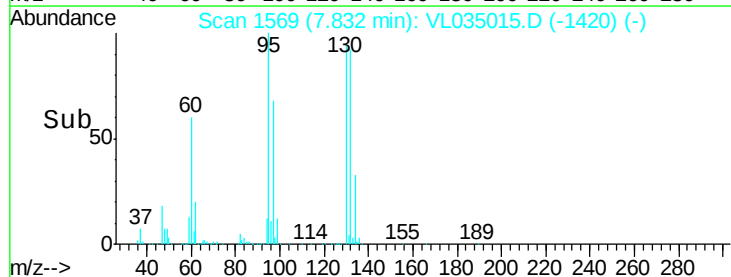
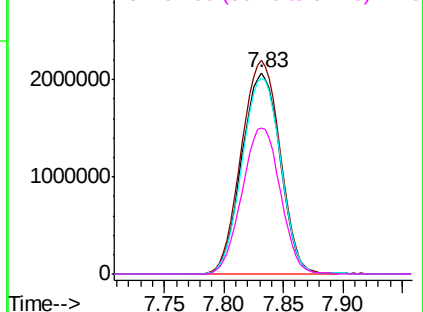


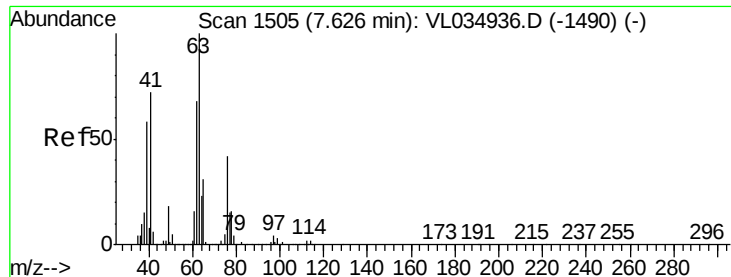
#38
 Trichloroethene
 Concen: 74.297 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035015.D
 Acq: 13 May 2020 9:56

Tgt Ion:130 Resp: 4621489
 Ion Ratio Lower Upper
 130 100
 95 105.9 93.4 140.0
 132 97.3 76.4 114.6
 97 72.5 58.5 87.7



Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.325 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.21 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITEDL

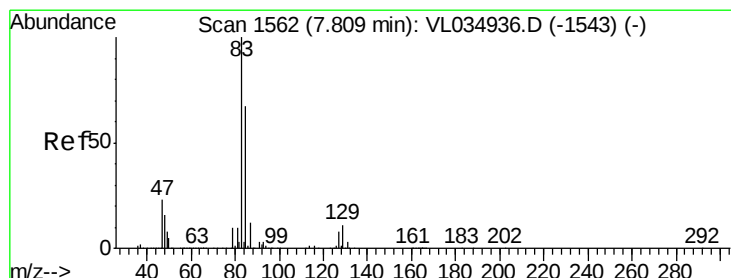
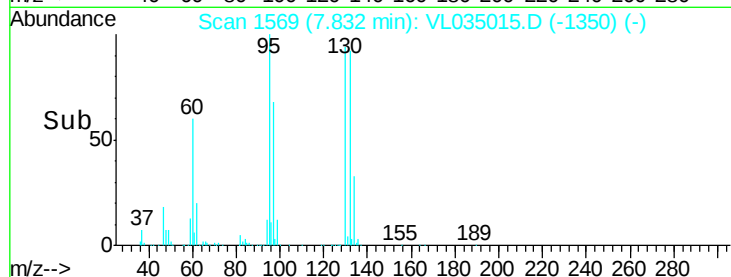
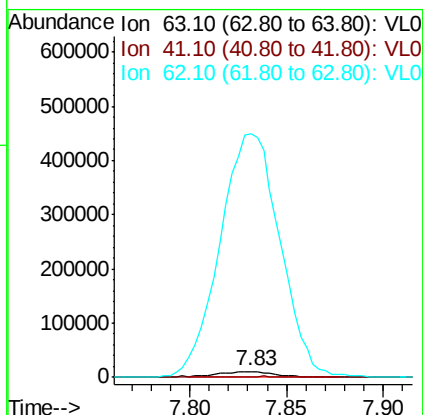
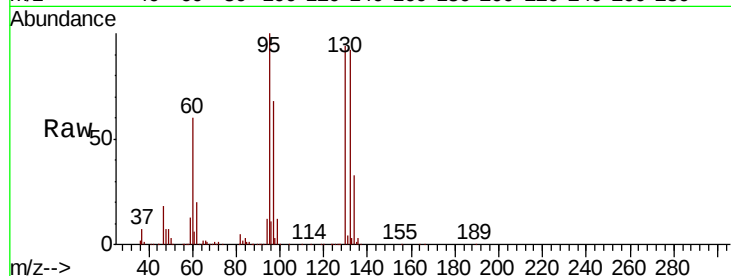
Tot Ion: 63 Resp: 20927

Ion Ratio Lower Upper

63 100

41 15.3 57.8 86.8#

62 4057.6 54.2 81.2#



#42

Bromodichloromethane

Concen: 0.239 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. 0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

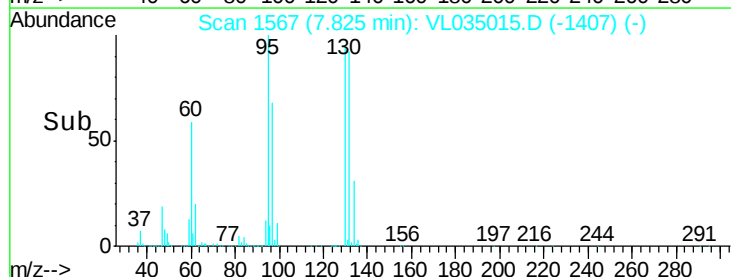
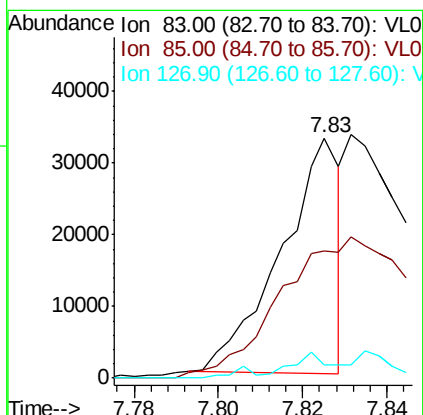
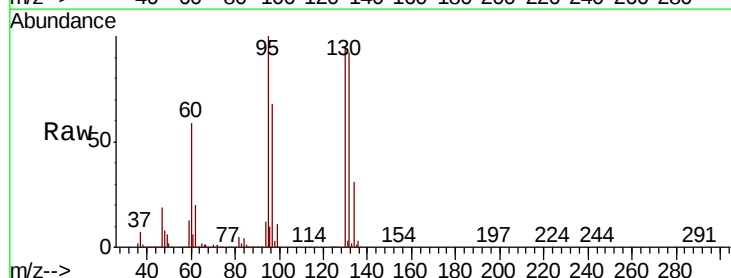
Tgt Ion: 83 Resp: 31932

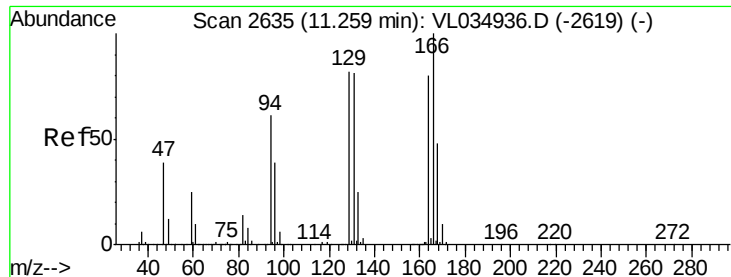
Ion Ratio Lower Upper

83 100

85 51.8 53.4 80.0#

127 5.6 6.1 9.1#





#52

Tetrachloroethene

Concen: 161.778 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITEDL

Tot Ion:164 Resp: 9236409

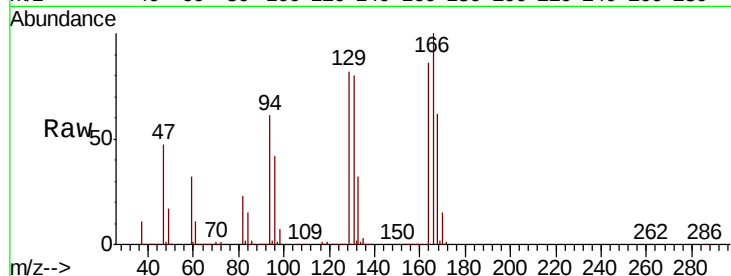
Ion Ratio Lower Upper

164 100

166 116.0 100.7 151.1

129 94.8 83.0 124.4

131 92.8 81.0 121.4

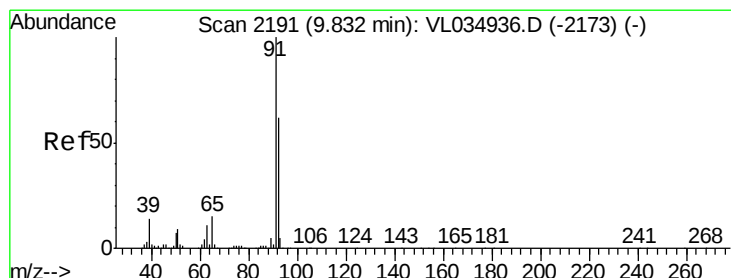
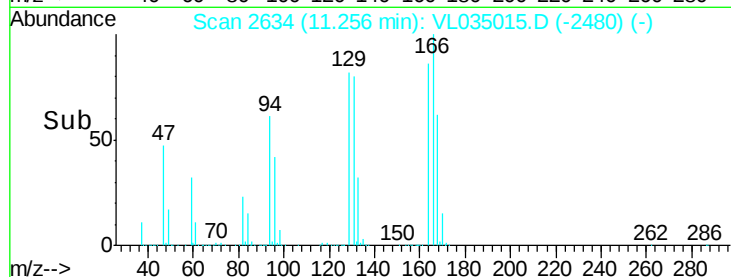
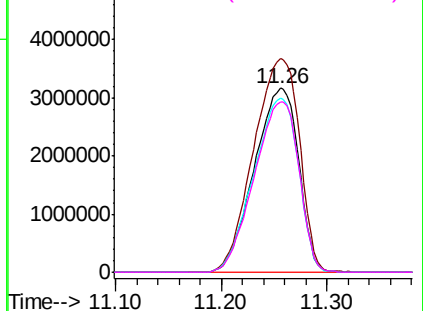


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.329 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL035015.D

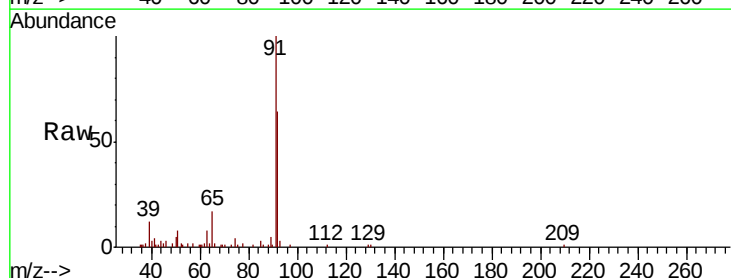
Acq: 13 May 2020 9:56

Tgt Ion: 91 Resp: 56064

Ion Ratio Lower Upper

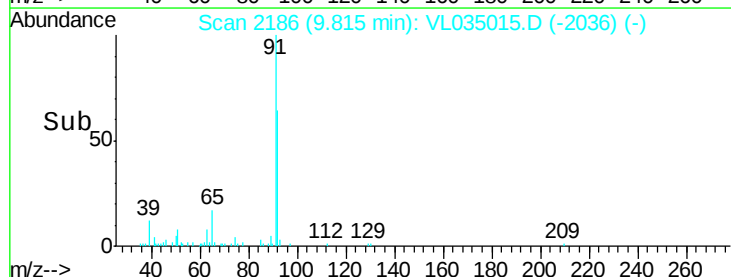
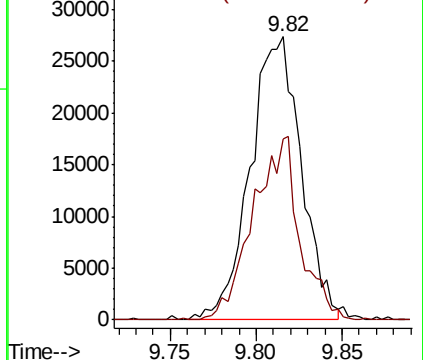
91 100

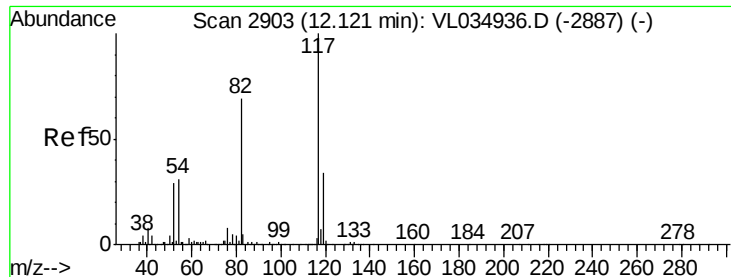
92 59.5 48.6 73.0



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: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITEDL

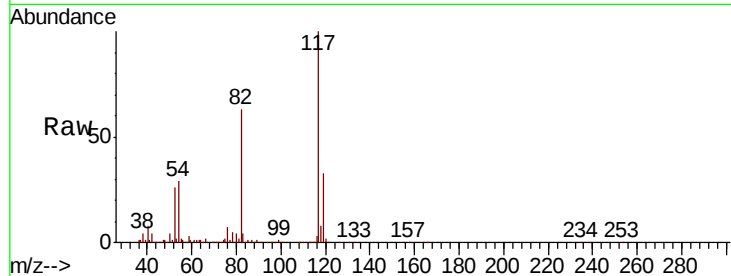
Tot Ion:117 Resp: 1783332

Ion Ratio Lower Upper

117 100

82 66.8 53.1 79.7

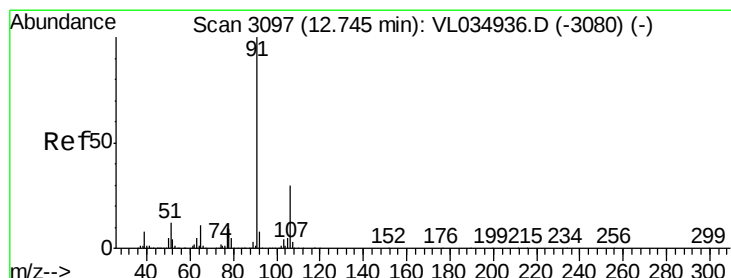
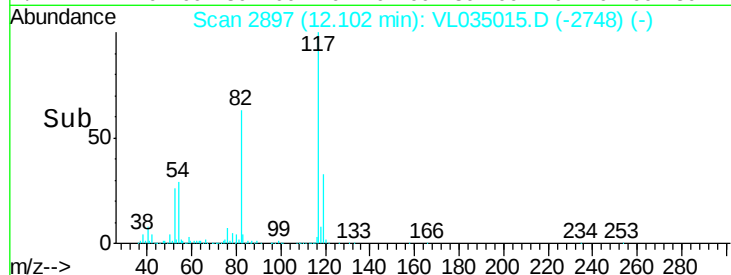
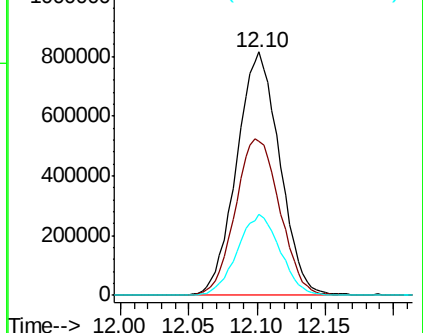
119 33.2 26.7 40.1



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: 0.570 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.02 min

Lab File: VL035015.D

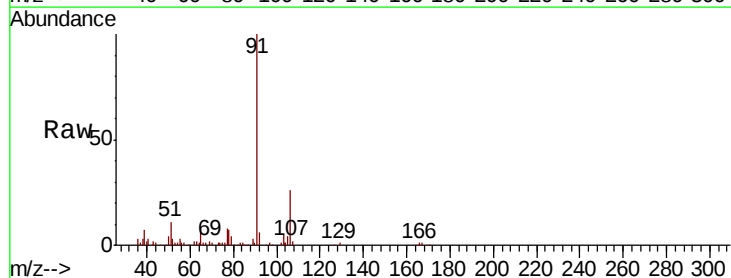
Acq: 13 May 2020 9:56

Tgt Ion: 91 Resp: 125642

Ion Ratio Lower Upper

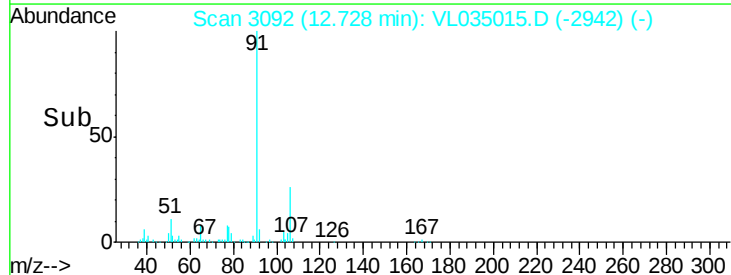
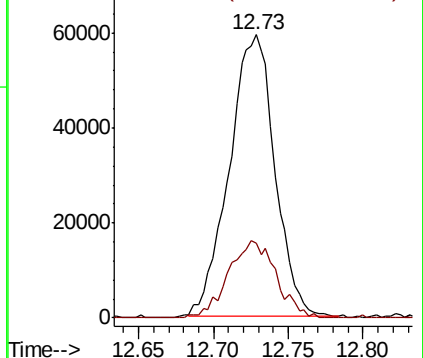
91 100

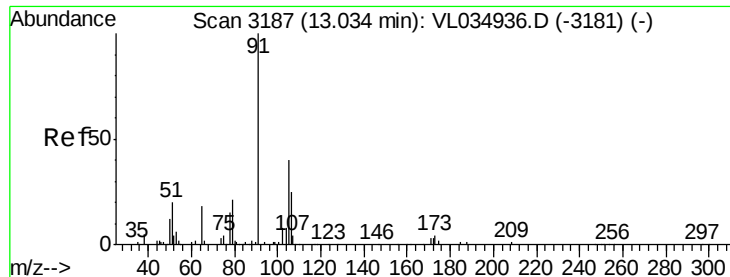
106 26.5 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

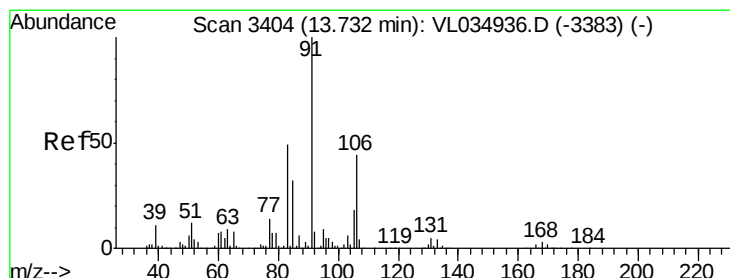
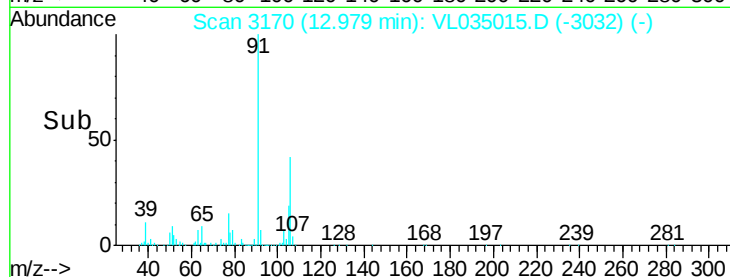
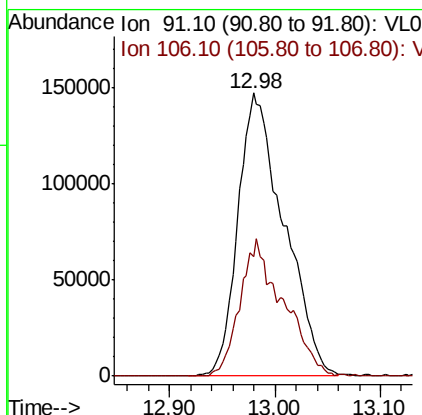
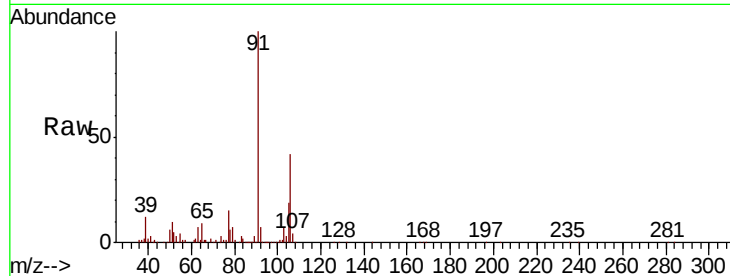




#59
m/p-Xylene
Concen: 2.291 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.05 min
Lab File: VL035015.D
Acq: 13 May 2020 9:56

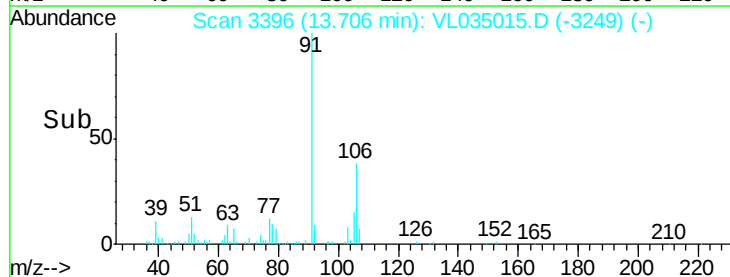
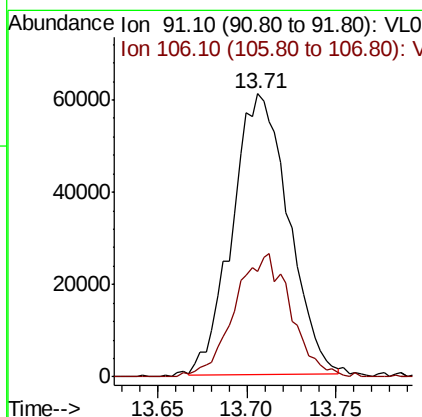
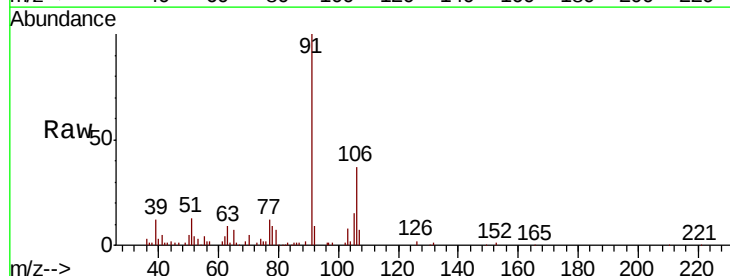
Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITEDL

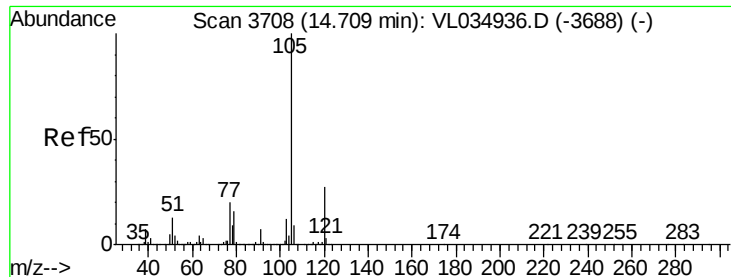
Tot Ion: 91 Resp: 444519
Ion Ratio Lower Upper
91 100
106 45.6 66.0 99.0#



#60
o-Xylene
Concen: 0.701 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.03 min
Lab File: VL035015.D
Acq: 13 May 2020 9:56

Tgt Ion: 91 Resp: 134249
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.5





#62

Isopropylbenzene

Concen: 0.326 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.02 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Instrument :

MSVOA_L

ClientSampleId :

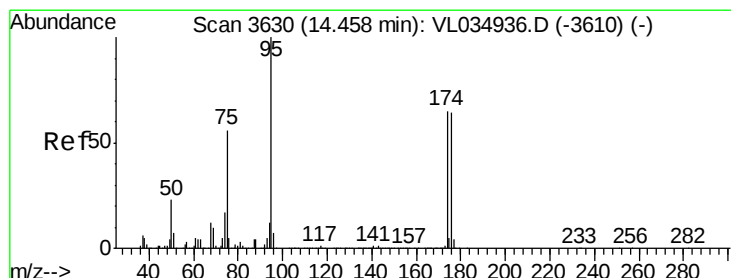
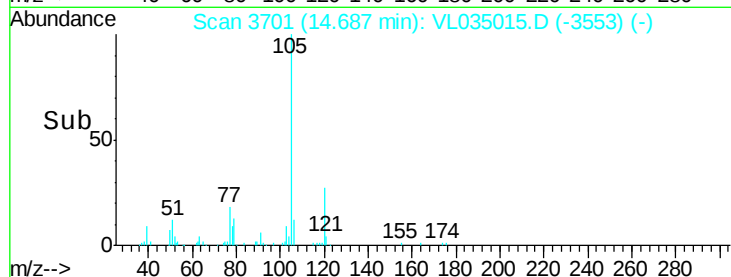
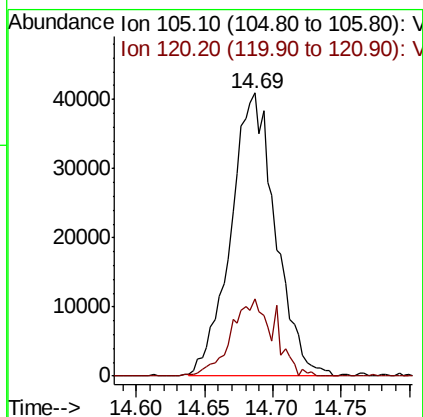
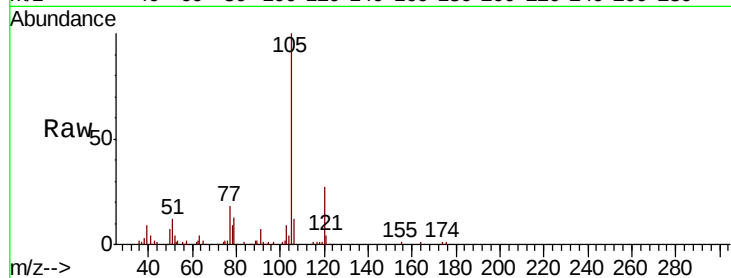
SG-OFF-SITEDL

Tot Ion:105 Resp: 93051

Ion Ratio Lower Upper

105 100

120 26.5 20.6 31.0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.922 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.03 min

Lab File: VL035015.D

Acq: 13 May 2020 9:56

Tgt Ion: 95 Resp: 1432179

Ion Ratio Lower Upper

95 100

174 68.5 51.5 77.3

175 5.3 3.8 5.8

