

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035515.D
 Acq On : 27 Aug 2020 10:33
 Operator : SY/AP
 Sample : L3510-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Quant Time: Aug 28 01:26:39 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	1013860	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4334416	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4344464	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3173232	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

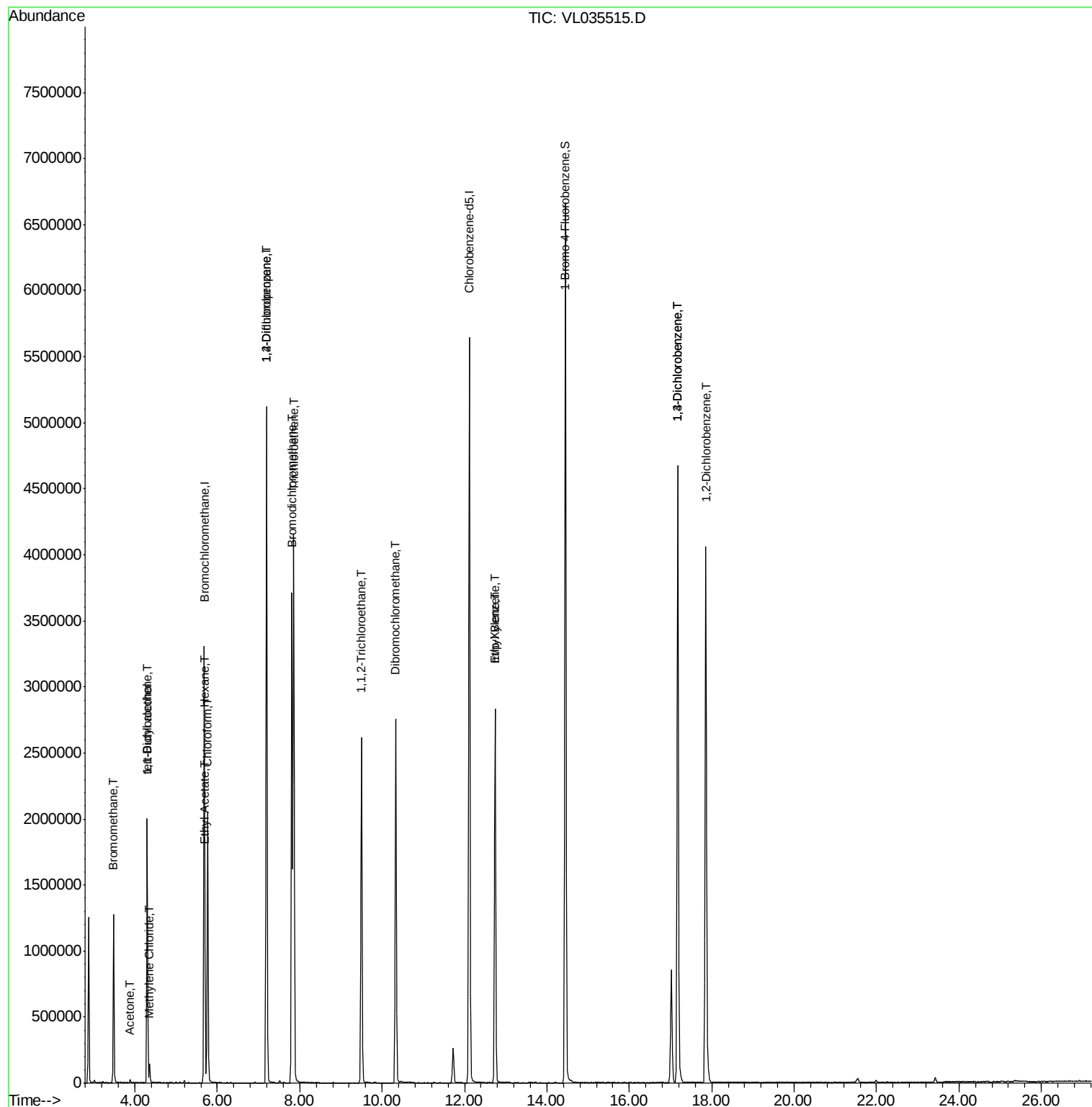
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	3.48	94	670365	10.776	ppbv	100
15) Acetone	3.88	43	17848	0.160	ppbv #	66
17) tert-Butyl alcohol	4.30	59	34367	0.252	ppbv #	72
18) 1,1-Dichloroethene	4.30	96	701599	8.238	ppbv	98
20) Methylene Chloride	4.36	84	59680	0.717	ppbv	98
25) Ethyl Acetate	5.71	43	14482	0.073	ppbv #	73
26) Hexane	5.70	57	24784	0.221	ppbv #	47
29) Chloroform	5.76	83	1421256	6.232	ppbv	100
38) Trichloroethene	7.86	130	1517688	9.312	ppbv	98
39) 1,2-Dichloropropane	7.20	63	783213	8.263	ppbv #	32
42) Bromodichloromethane	7.81	83	2549660	11.787	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1011312	7.231	ppbv	99
48) Dibromochloromethane	10.33	129	1818143	8.260	ppbv	100
58) Ethyl Benzene	12.74	91	2729105	6.092	ppbv	95
59) m/p-Xylene	12.74	91	2729105	7.290	ppbv #	72
75) 1,3-Dichlorobenzene	17.18	146	3044401	8.442	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	3044401	8.560	ppbv	98
77) 1,2-Dichlorobenzene	17.86	146	2771663	7.933	ppbv	99

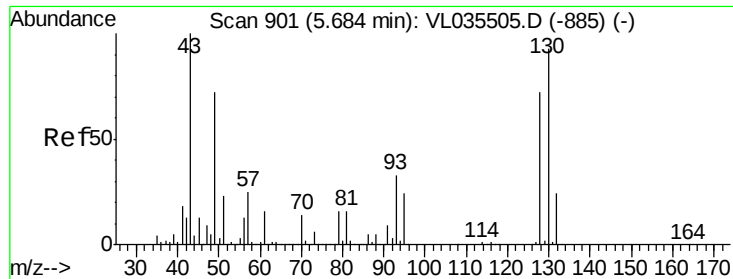
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

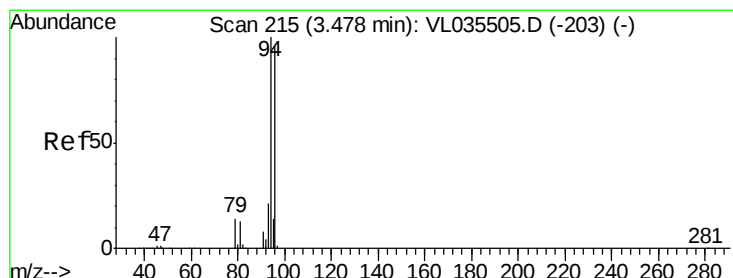
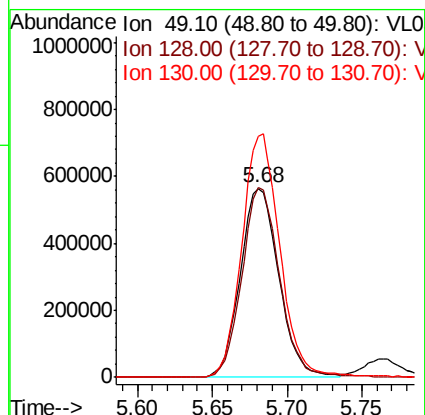
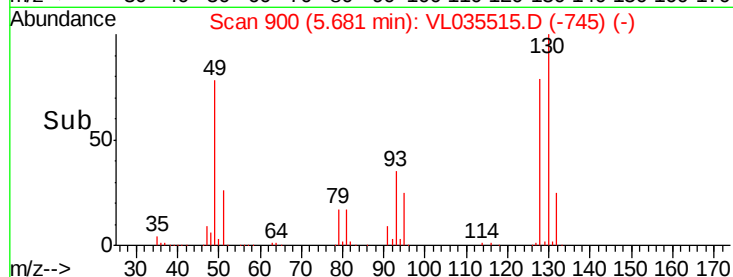
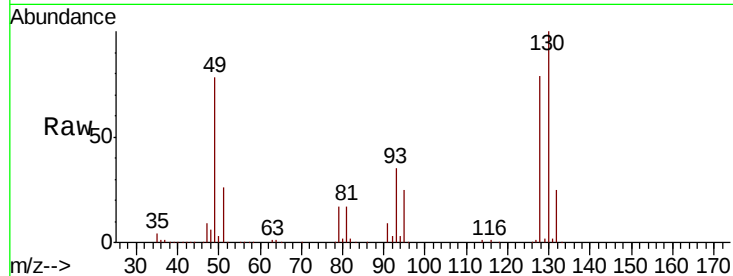




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

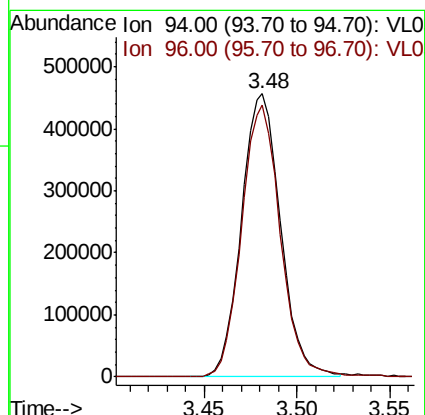
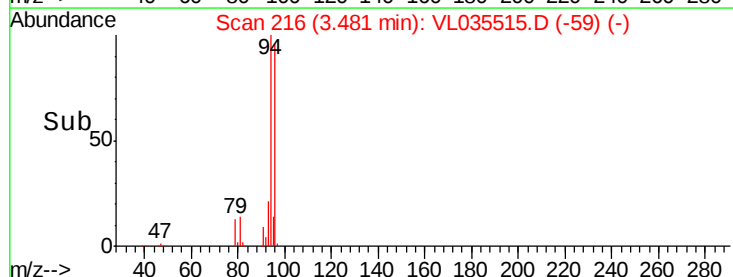
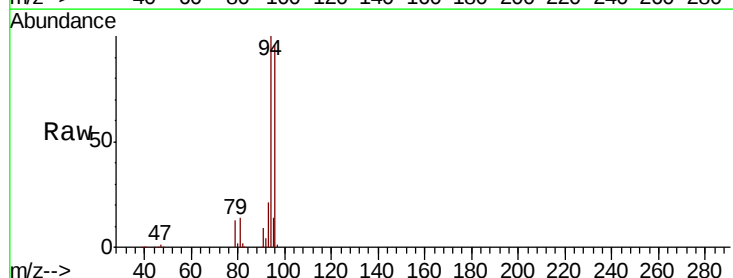
Instrument :
 MSVOA_L
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 E053-1100DL

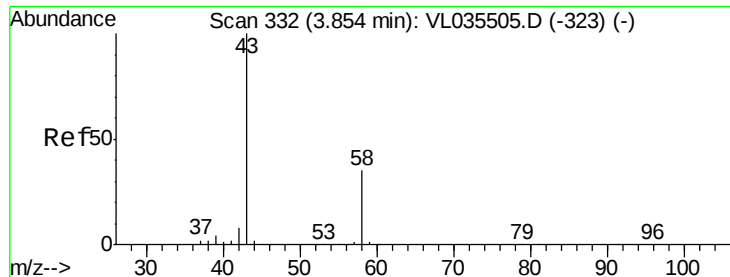
Tot Ion: 49 Resp: 1013860
 Ion Ratio Lower Upper
 49 100
 128 98.8 50.0 150.1
 130 128.0 64.4 193.2



#6
 Bromomethane
 Concen: 10.776 ppbv
 RT: 3.48 min Scan# 216
 Delta R.T. 0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

Tgt Ion: 94 Resp: 670365
 Ion Ratio Lower Upper
 94 100
 96 96.1 77.1 115.7





#15

Acetone

Concen: 0.160 ppbv

RT: 3.88 min Scan# 341

Delta R.T. 0.03 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Instrument :

MSVOA_L

ClientSampleId :

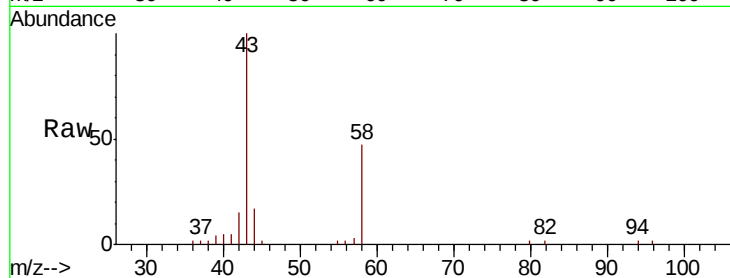
E053-1100DL

Tot Ion: 43 Resp: 17848

Ion Ratio Lower Upper

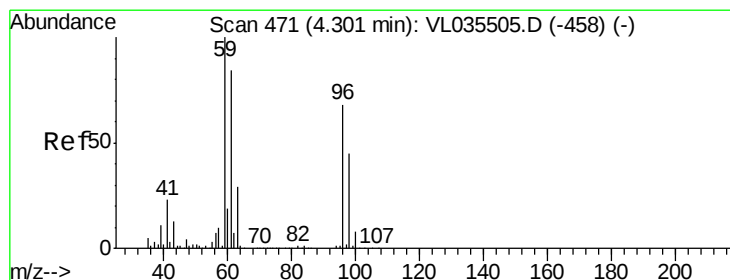
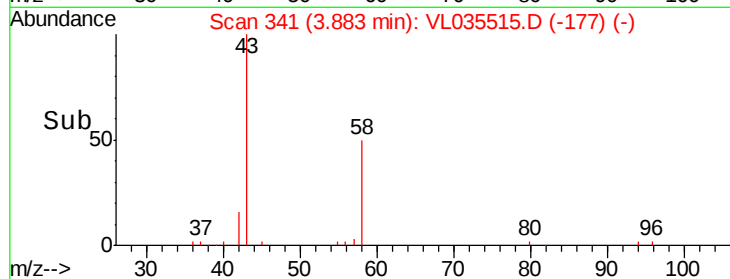
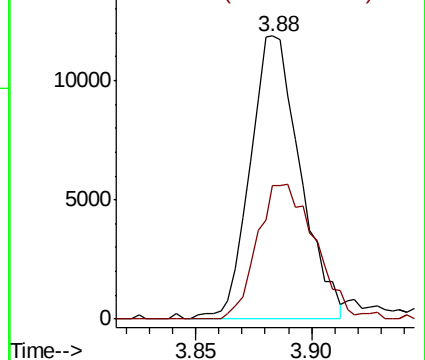
43 100

58 55.4 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.252 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035515.D

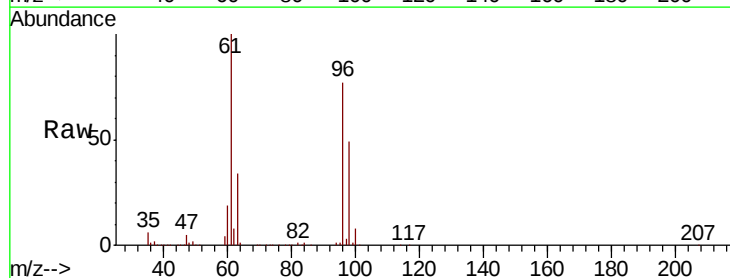
Acq: 27 Aug 2020 10:33

Tgt Ion: 59 Resp: 34367

Ion Ratio Lower Upper

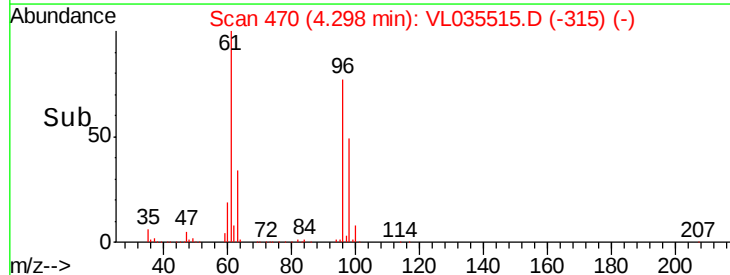
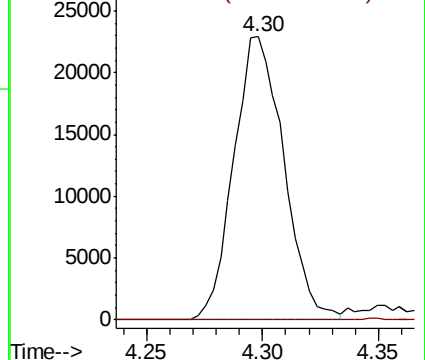
59 100

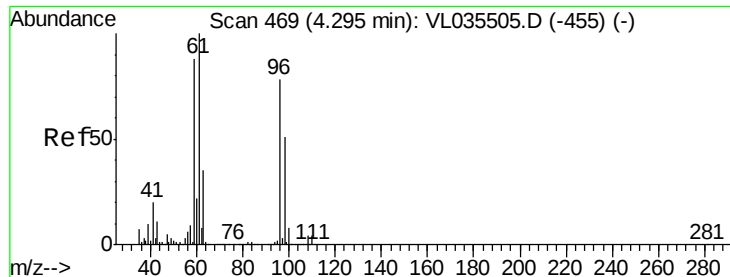
57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

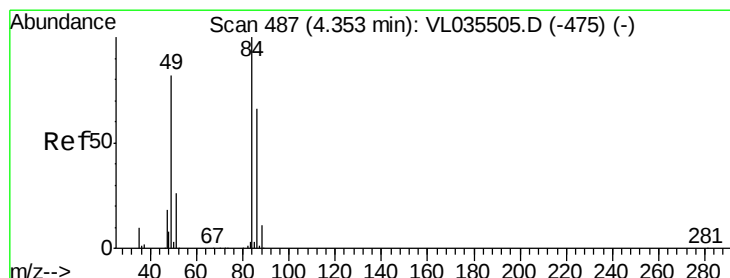
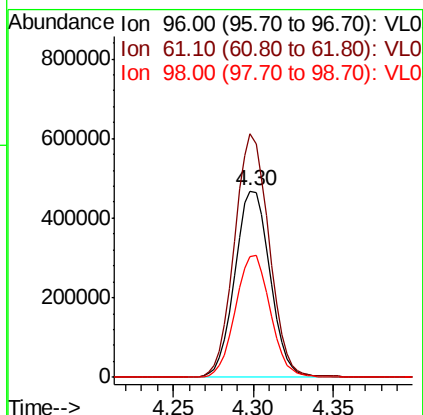
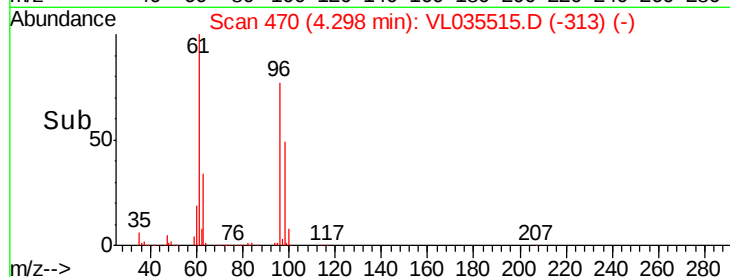
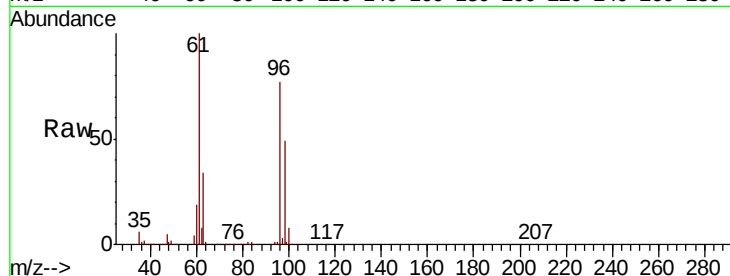




#18
 1,1-Dichloroethene
 Concen: 8.238 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

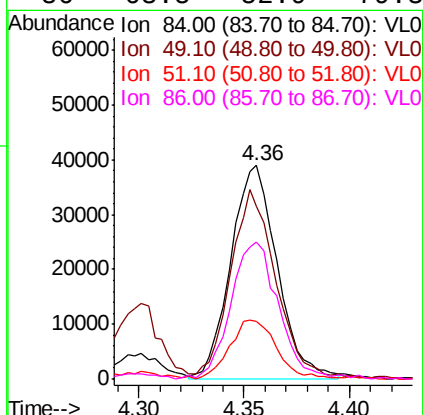
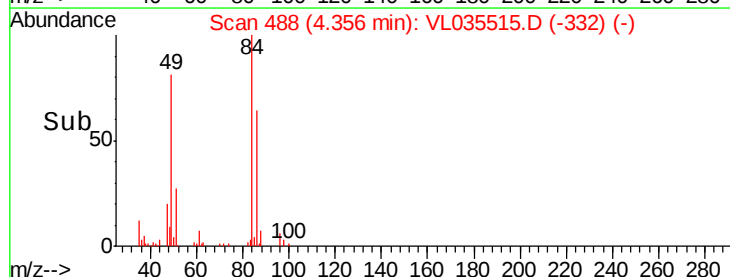
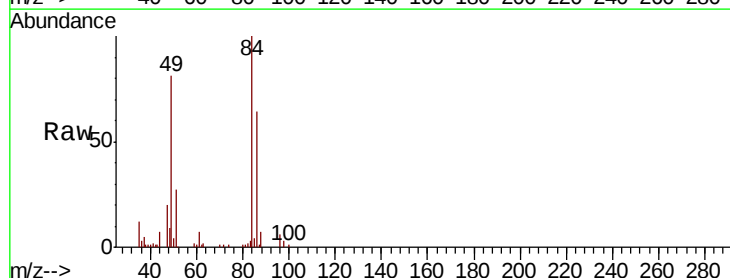
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

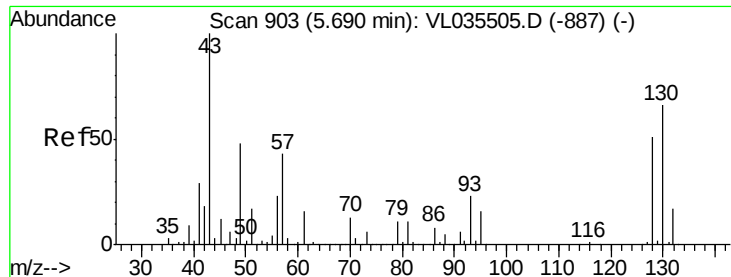
Tot Ion: 96 Resp: 701599
 Ion Ratio Lower Upper
 96 100
 61 130.4 103.0 154.6
 98 64.6 52.8 79.2



#20
 Methylene Chloride
 Concen: 0.717 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

Tgt Ion: 84 Resp: 59680
 Ion Ratio Lower Upper
 84 100
 49 79.6 65.4 98.0
 51 26.6 21.5 32.3
 86 63.5 52.9 79.3

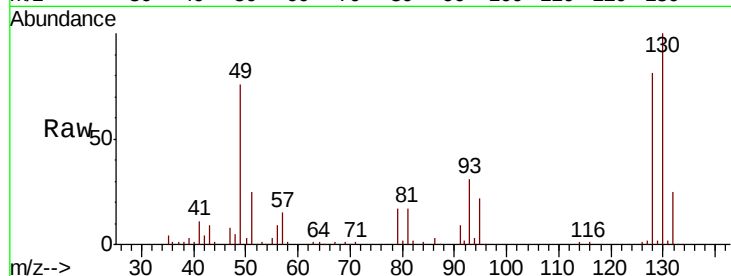




#25
Ethyl Acetate
Concen: 0.073 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL035515.D
Acq: 27 Aug 2020 10:33

Instrument :
MSVOA_L
ClientSampled :
E053-1100DL

Tot Ion:	43	Resp:	14482
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.4	12.6#
61	0.0	10.6	16.0#
70	3.3	9.4	14.2#



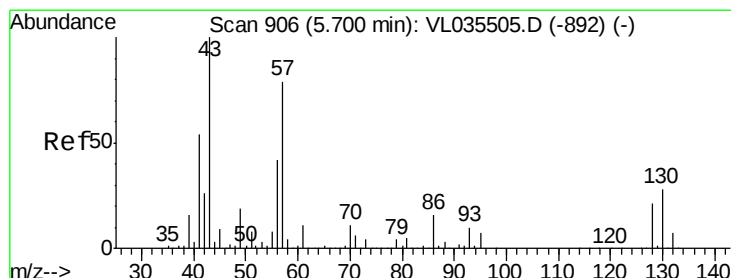
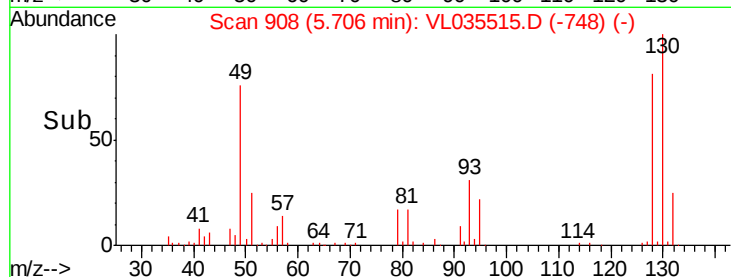
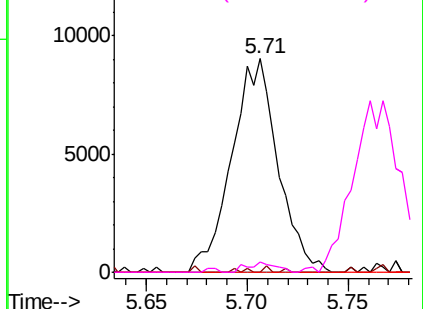
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

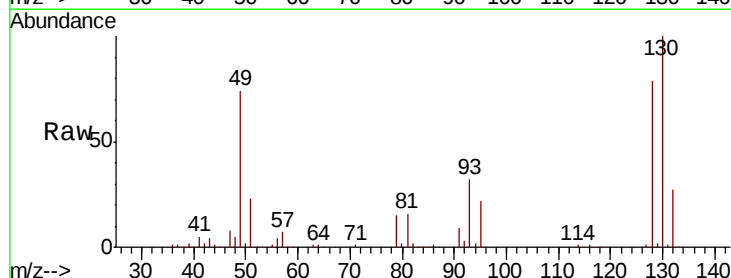
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.221 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL035515.D
Acq: 27 Aug 2020 10:33

Tgt Ion:	57	Resp:	24784
Ion	Ratio	Lower	Upper
57	100		
41	73.2	55.9	83.9
43	58.4	141.8	212.8#
56	58.4	41.8	62.8



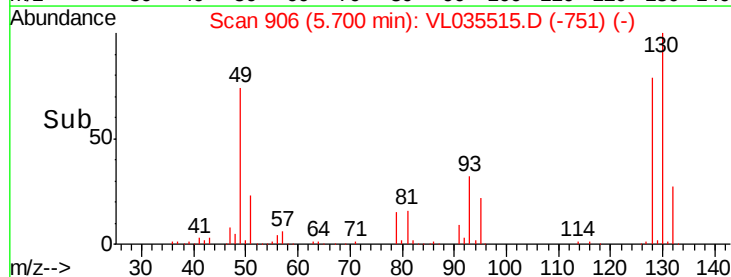
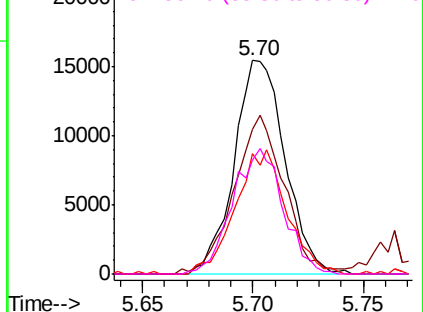
Abundance

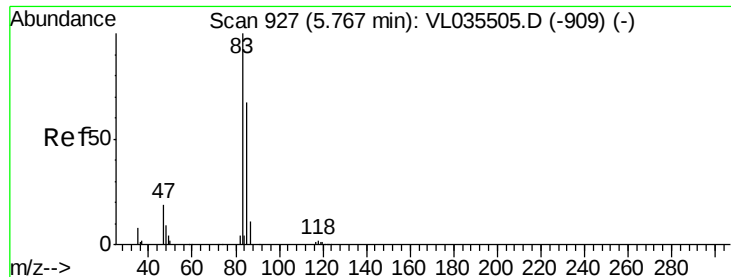
Ion 57.10 (56.80 to 57.80): VL0

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

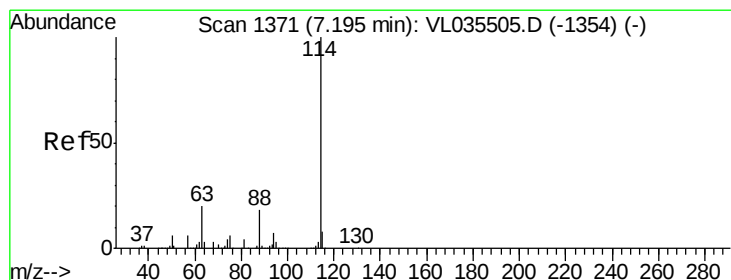
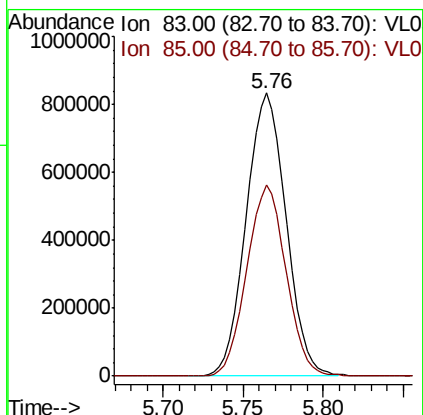
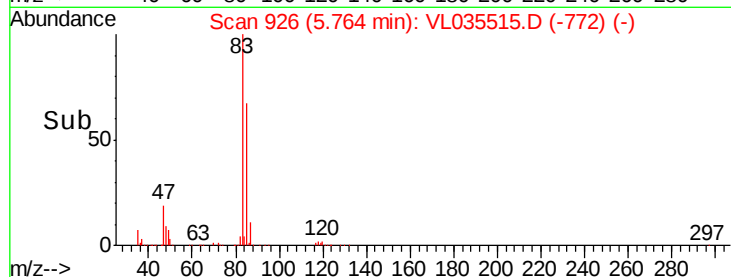
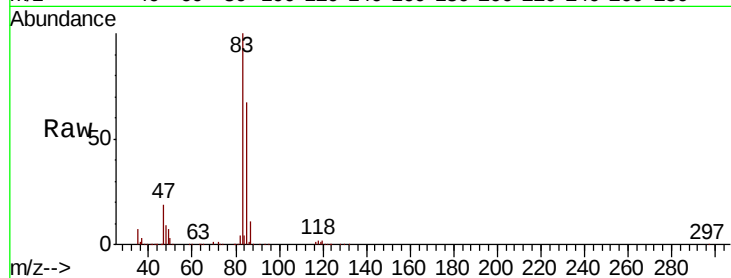




#29
Chloroform
Concen: 6.232 ppbv
RT: 5.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VL035515.D
Acq: 27 Aug 2020 10:33

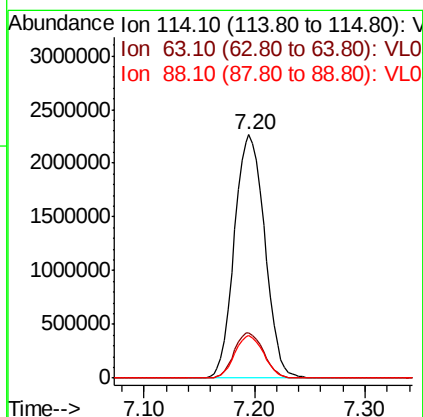
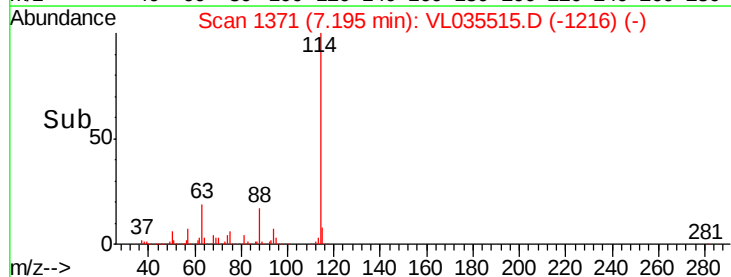
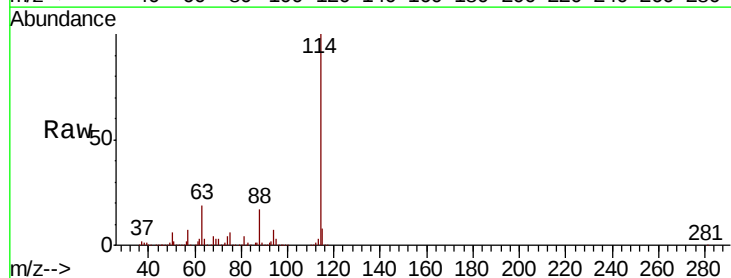
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

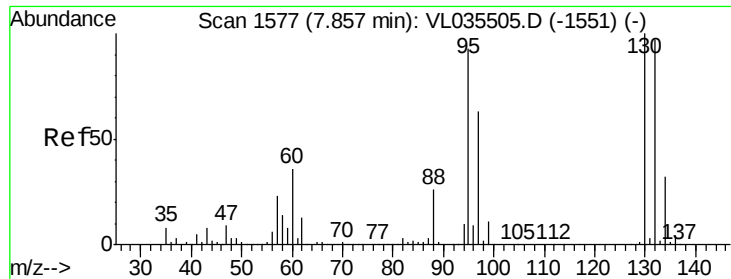
Tot Ion: 83 Resp: 1421256
Ion Ratio Lower Upper
83 100
85 67.4 53.9 80.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VL035515.D
Acq: 27 Aug 2020 10:33

Tgt Ion: 114 Resp: 4334416
Ion Ratio Lower Upper
114 100
63 18.2 14.7 22.1
88 16.7 13.4 20.2





#38

Trichloroethene

Concen: 9.312 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

Tot Ion:130 Resp: 1517688

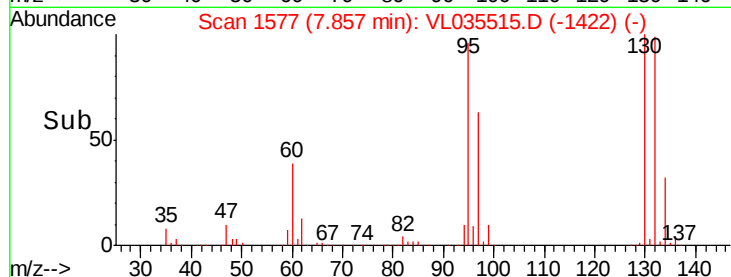
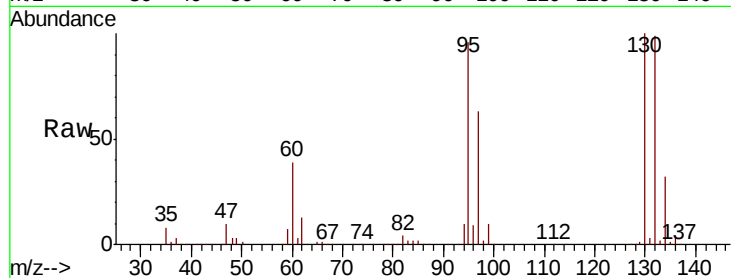
Ion Ratio Lower Upper

130 100

95 96.1 74.6 112.0

132 98.8 77.6 116.4

97 63.5 50.6 76.0

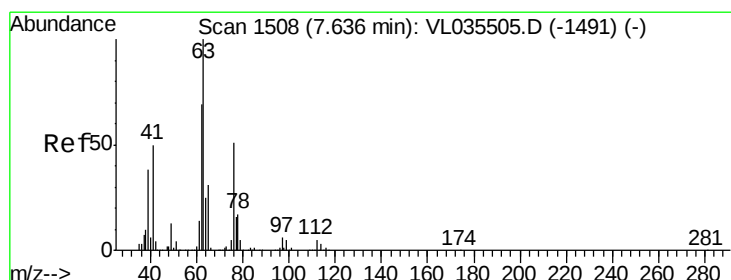
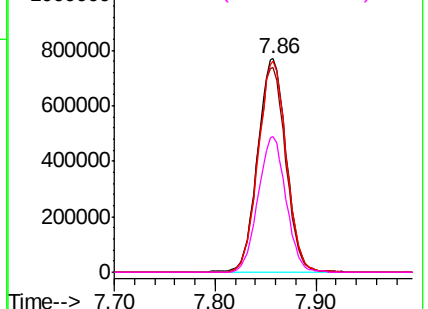


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.263 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. -0.44 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

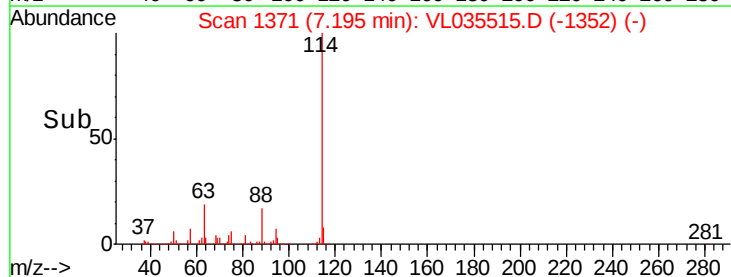
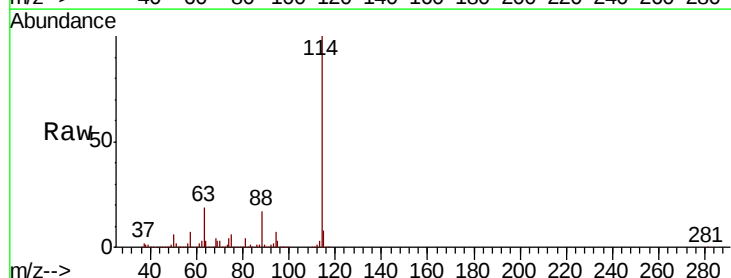
Tgt Ion: 63 Resp: 783213

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

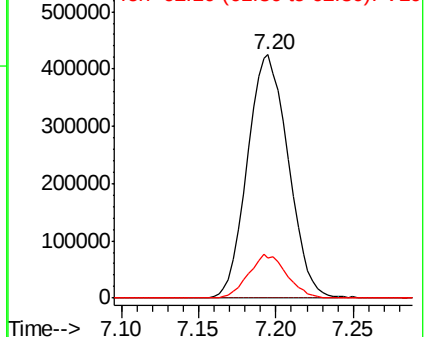
62 16.7 55.4 83.0#

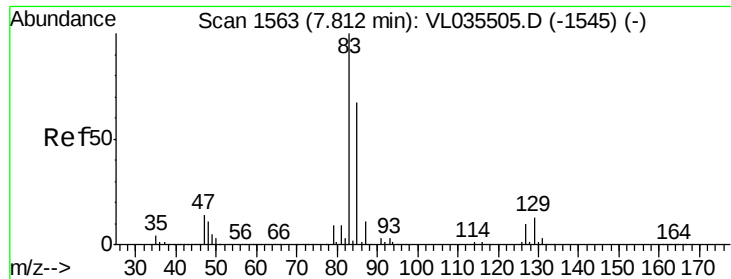


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 11.787 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

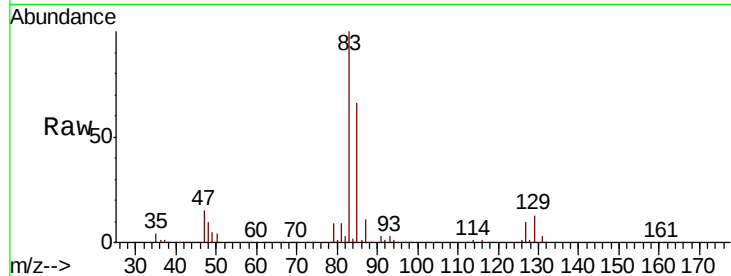
Tot Ion: 83 Resp: 2549660

Ion Ratio Lower Upper

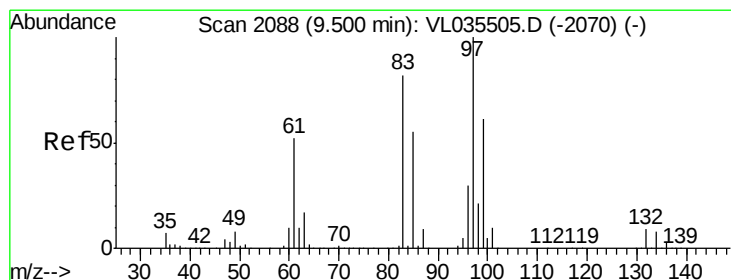
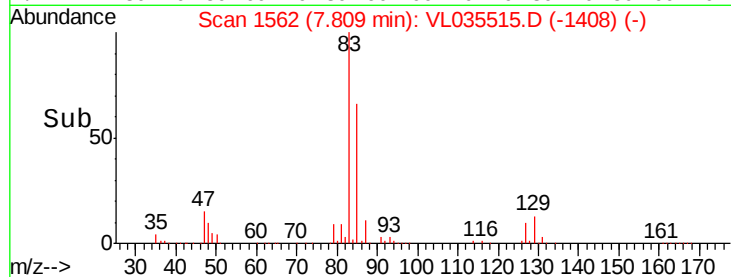
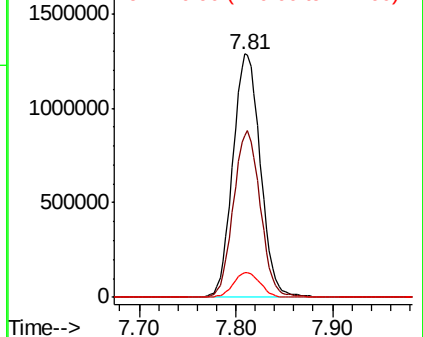
83 100

85 66.4 53.7 80.5

127 10.2 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#47

1,1,2-Trichloroethane

Concen: 7.231 ppbv

RT: 9.50 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Tgt Ion: 97 Resp: 1011312

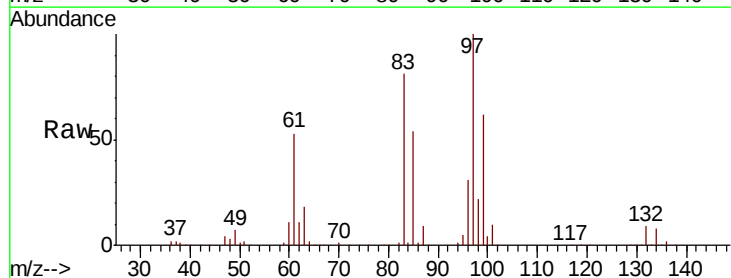
Ion Ratio Lower Upper

97 100

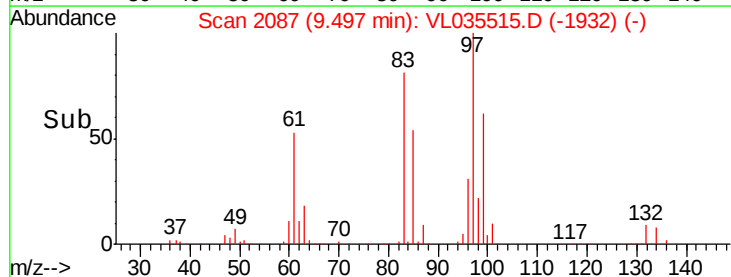
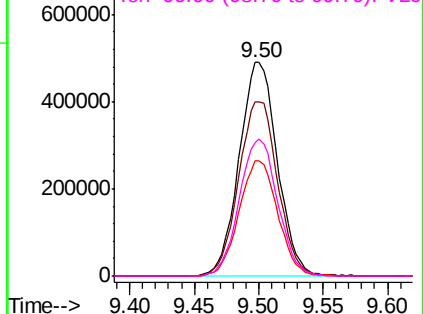
83 81.2 65.4 98.2

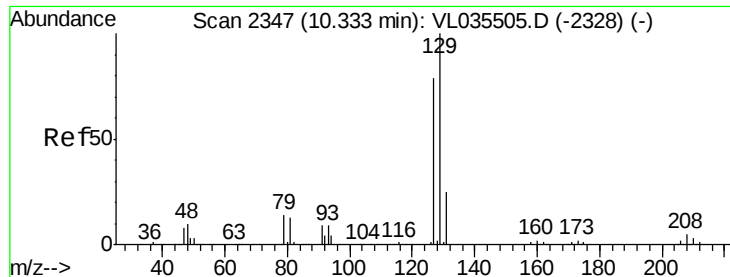
85 53.8 43.7 65.5

99 62.4 49.1 73.7



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0

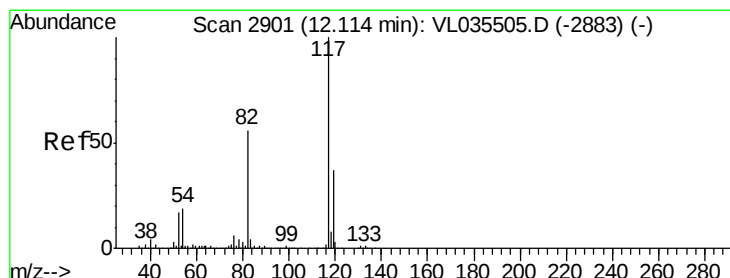
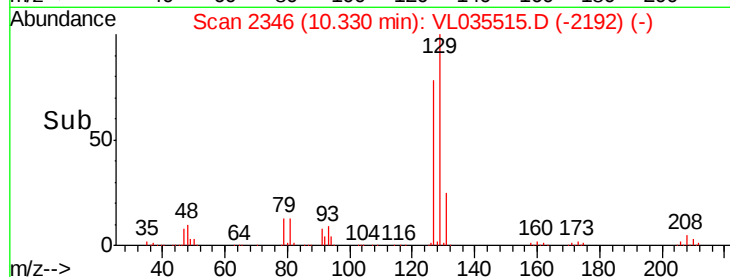
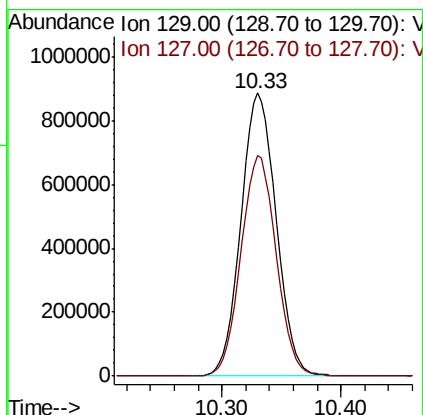
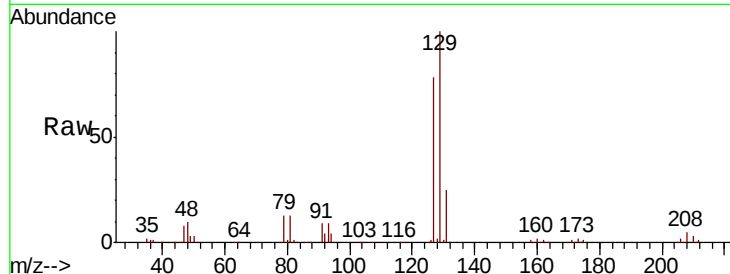




#48
 Dibromochloromethane
 Concen: 8.260 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

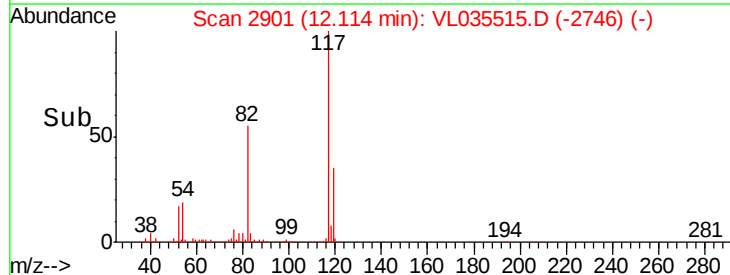
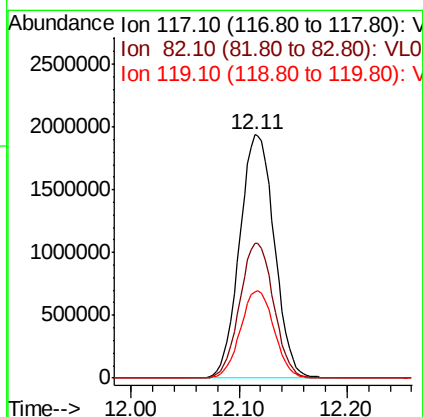
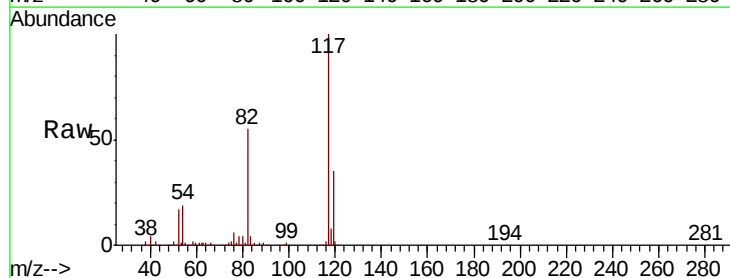
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

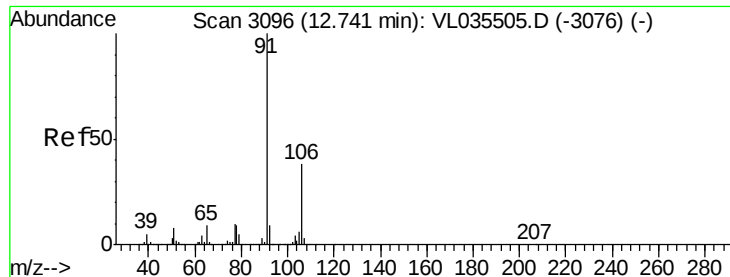
Tot Ion:129 Resp: 1818143
 Ion Ratio Lower Upper
 129 100
 127 78.3 39.3 117.8



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2901
 Delta R.T. -0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

Tgt Ion:117 Resp: 4344464
 Ion Ratio Lower Upper
 117 100
 82 54.5 41.6 62.4
 119 34.8 29.3 43.9





#58

Ethyl Benzene

Concen: 6.092 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. -0.00 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Instrument :

MSVOA_L

ClientSampleId :

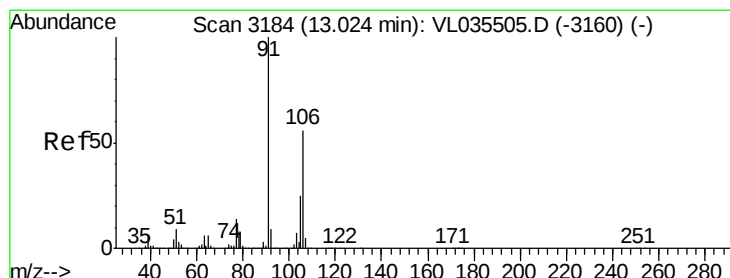
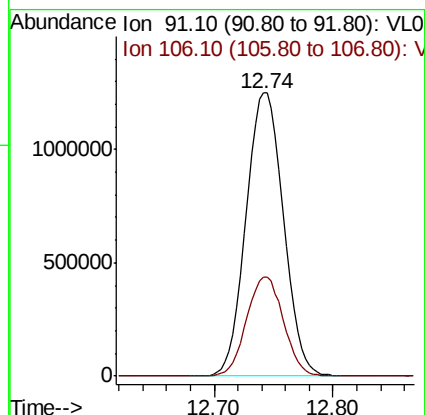
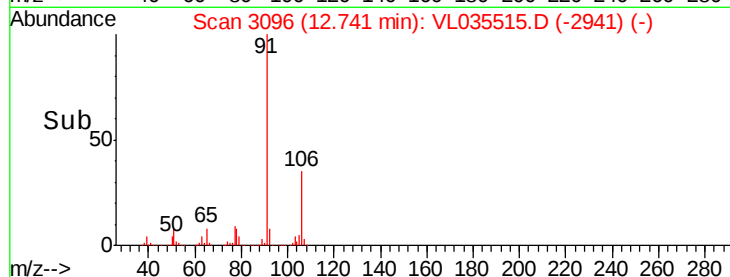
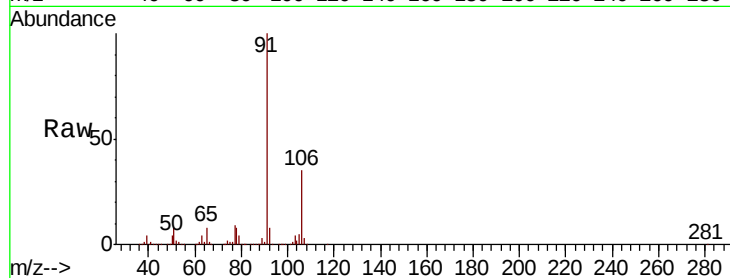
E053-1100DL

Tot Ion: 91 Resp: 2729105

Ion Ratio Lower Upper

91 100

106 35.1 30.3 45.5



#59

m/p-Xylene

Concen: 7.290 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. -0.28 min

Lab File: VL035515.D

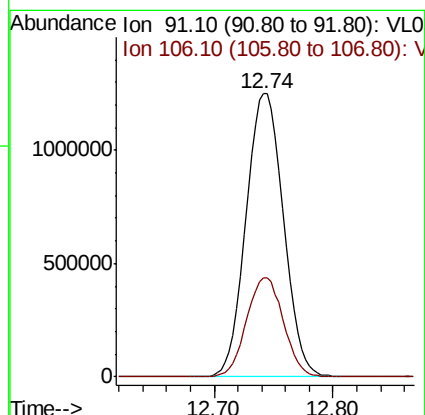
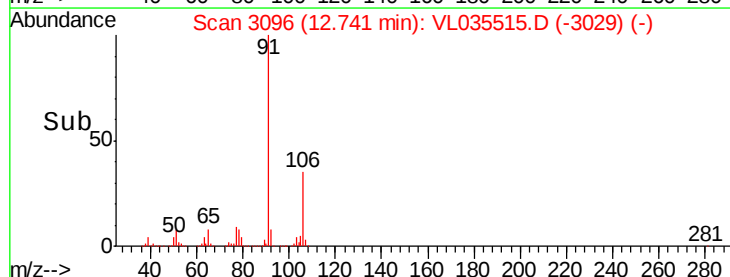
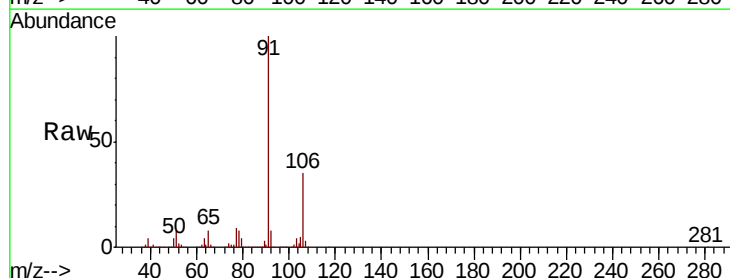
Acq: 27 Aug 2020 10:33

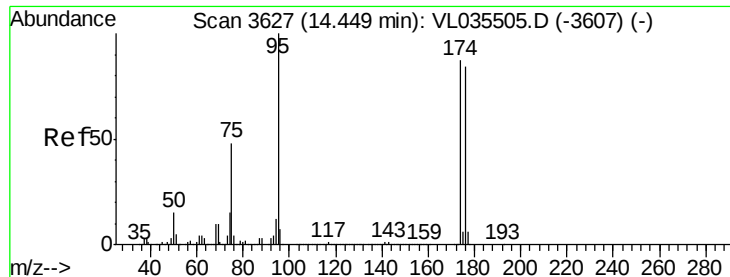
Tgt Ion: 91 Resp: 2729105

Ion Ratio Lower Upper

91 100

106 34.5 43.4 65.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.285 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

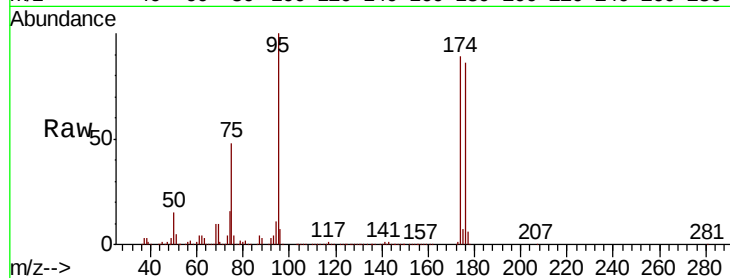
Tot Ion: 95 Resp: 3173232

Ion Ratio Lower Upper

95 100

174 89.9 69.6 104.4

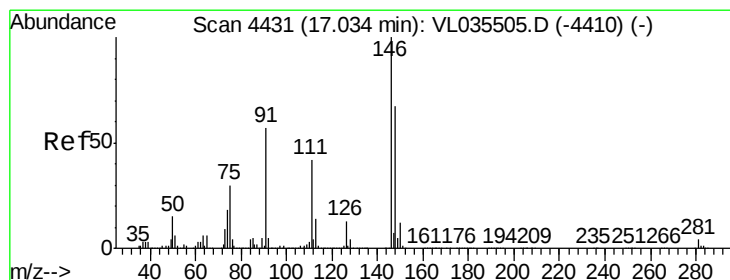
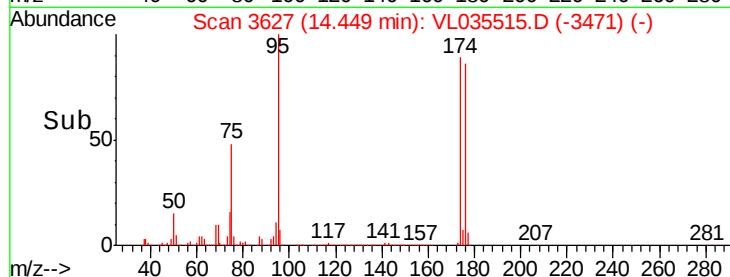
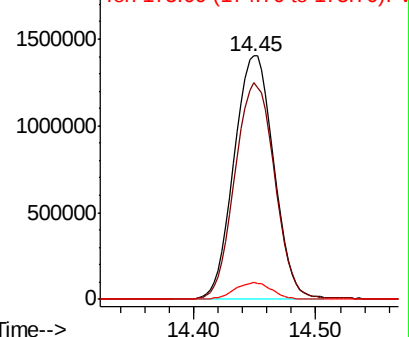
175 6.5 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): VL035515.D (-3607) (-)

Ion 174.00 (173.70 to 174.70): VL035515.D (-3607) (-)

Ion 175.00 (174.70 to 175.70): VL035515.D (-3607) (-)



#75

1,3-Dichlorobenzene

Concen: 8.442 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.14 min

Lab File: VL035515.D

Acq: 27 Aug 2020 10:33

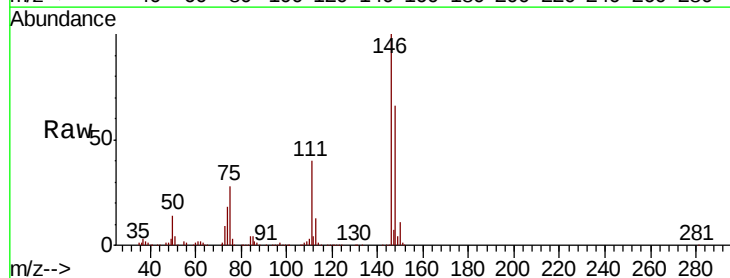
Tgt Ion: 146 Resp: 3044401

Ion Ratio Lower Upper

146 100

111 38.7 20.7 62.1

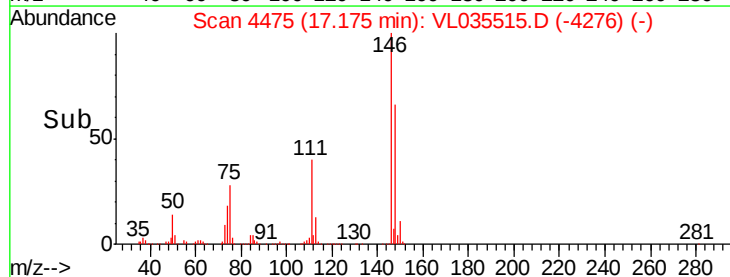
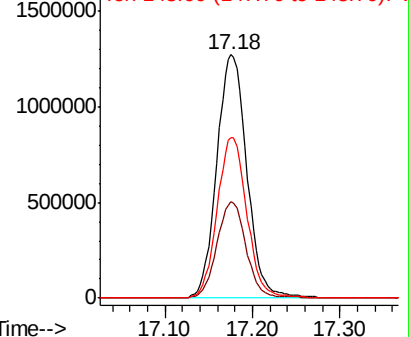
148 65.5 33.0 98.9

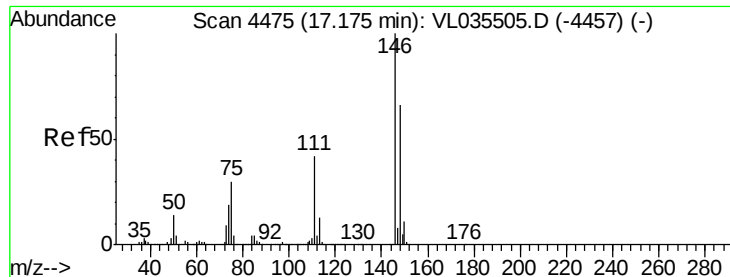


Abundance Ion 146.00 (145.70 to 146.70): VL035515.D (-4410) (-)

Ion 111.10 (110.80 to 111.80): VL035515.D (-4410) (-)

Ion 148.00 (147.70 to 148.70): VL035515.D (-4410) (-)

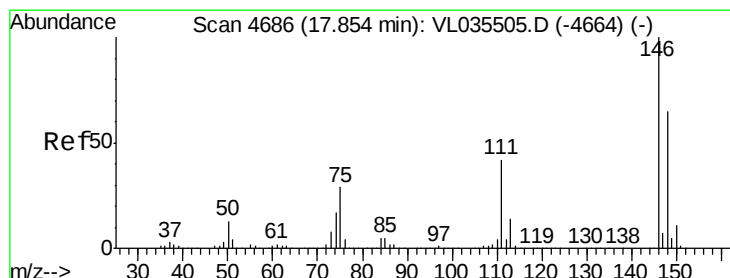
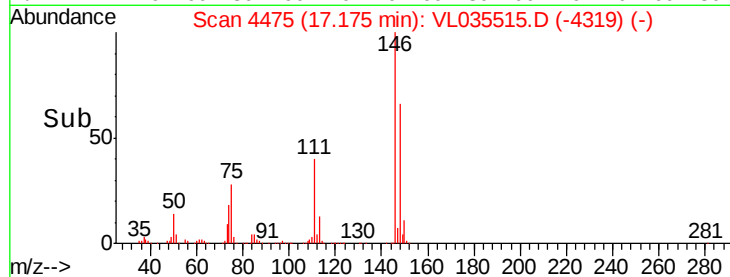
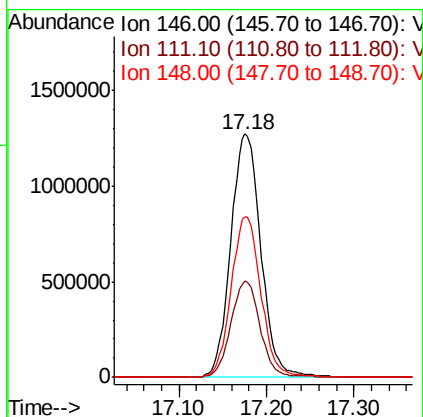
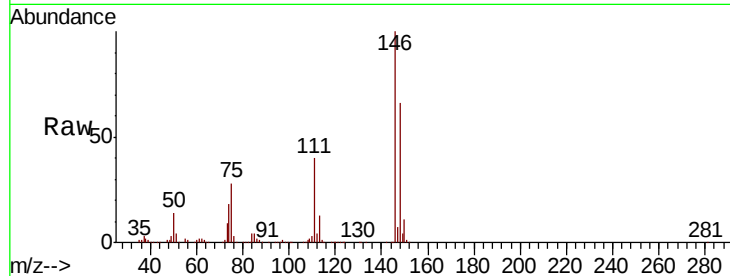




#76
 1,4-Dichlorobenzene
 Concen: 8.560 ppbv
 RT: 17.18 min Scan# 4475
 Delta R.T. -0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tot Ion:146 Resp: 3044401
 Ion Ratio Lower Upper
 146 100
 111 38.7 20.0 60.0
 148 65.5 33.2 99.6



#77
 1,2-Dichlorobenzene
 Concen: 7.933 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. 0.00 min
 Lab File: VL035515.D
 Acq: 27 Aug 2020 10:33

Tgt Ion:146 Resp: 2771663
 Ion Ratio Lower Upper
 146 100
 111 41.3 21.1 63.3
 148 65.3 32.9 98.7

