

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082320\
 Data File : VL035502.D
 Acq On : 23 Aug 2020 17:19
 Operator : SY/AP
 Sample : L3510-01 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Quant Time: Aug 24 02:04:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sun Aug 23 12:40:32 2020
 QLast Update : Sun Aug 23 12:40:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	988059	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4306757	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4301760	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3138640	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

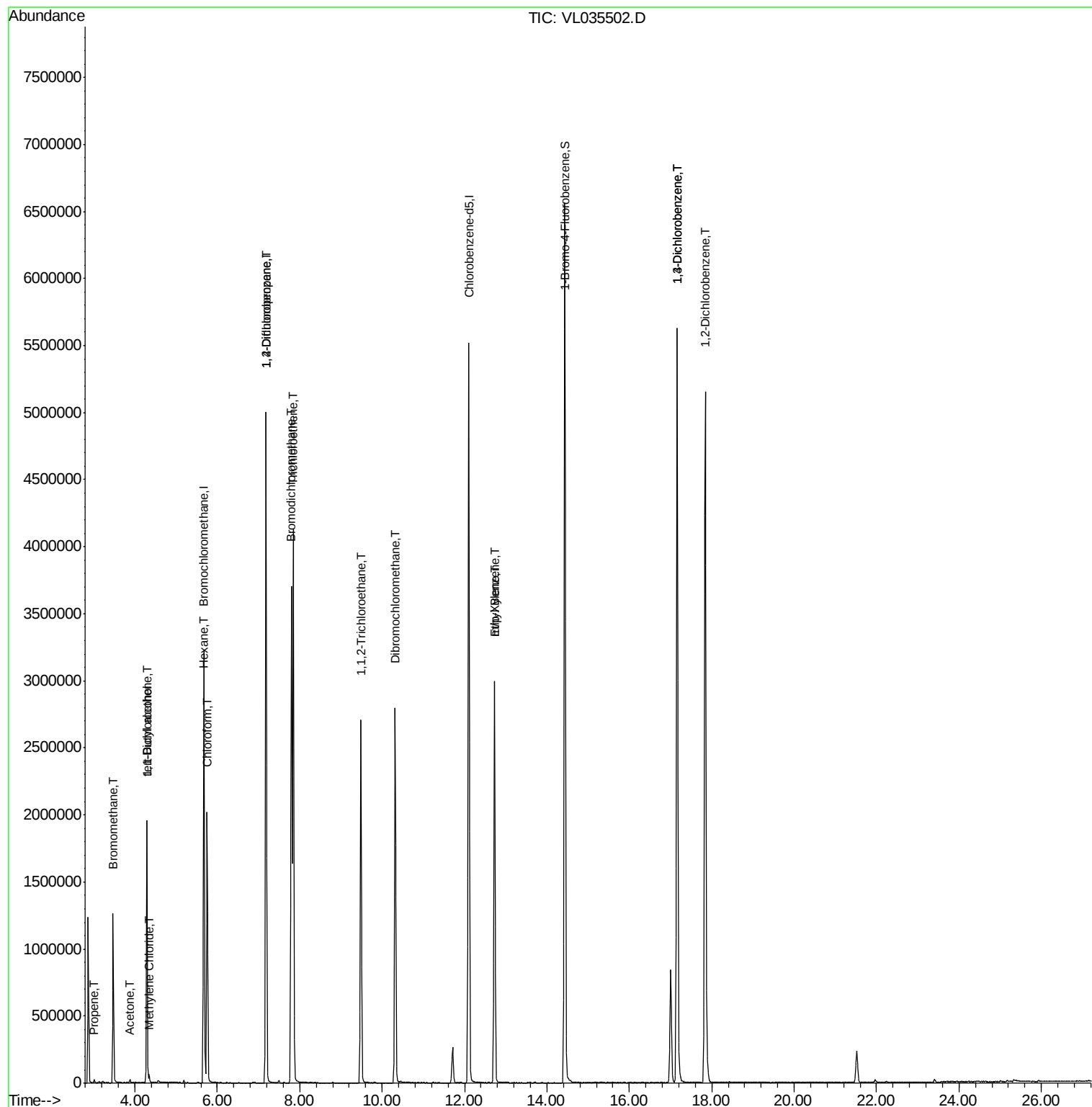
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	3.47	94	668511	10.641	ppbv	98
9) Propene	3.02	41	3215	0.074	ppbv	87
15) Acetone	3.87	43	16298	0.156	ppbv #	65
17) tert-Butyl alcohol	4.29	59	33893	0.250	ppbv #	72
18) 1,1-Dichloroethene	4.29	96	704107	8.134	ppbv	97
20) Methylene Chloride	4.35	84	22093	0.195	ppbv	89
26) Hexane	5.69	57	7602	0.062	ppbv #	51
29) Chloroform	5.75	83	1410664	6.066	ppbv	99
38) Trichloroethene	7.84	130	1509019	9.641	ppbv	98
39) 1,2-Dichloropropane	7.18	63	765663	8.110	ppbv #	31
42) Bromodichloromethane	7.80	83	2545998	11.631	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1054503	7.440	ppbv	98
48) Dibromochloromethane	10.32	129	1876813	8.319	ppbv	100
58) Ethyl Benzene	12.73	91	2870318	6.215	ppbv	97
59) m/p-Xylene	12.73	91	2870318	7.302	ppbv #	74
75) 1,3-Dichlorobenzene	17.16	146	3709805	9.900	ppbv	98
76) 1,4-Dichlorobenzene	17.16	146	3709805	9.889	ppbv	100
77) 1,2-Dichlorobenzene	17.84	146	3538974	9.574	ppbv	99

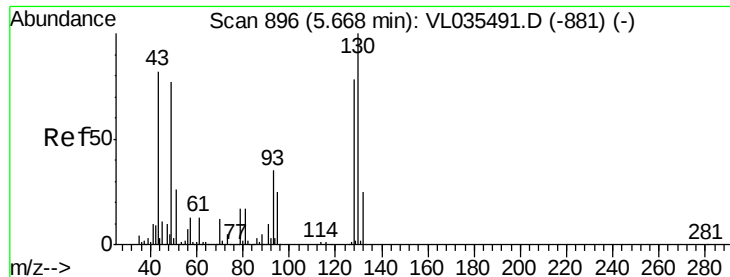
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sun Aug 23 12:40:32 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

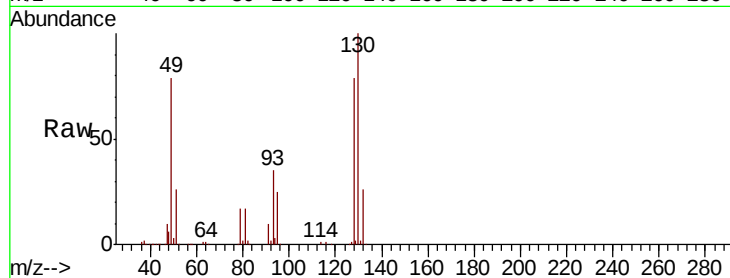
Tot Ion: 49 Resp: 988059

Ion Ratio Lower Upper

49 100

128 100.6 51.6 154.9

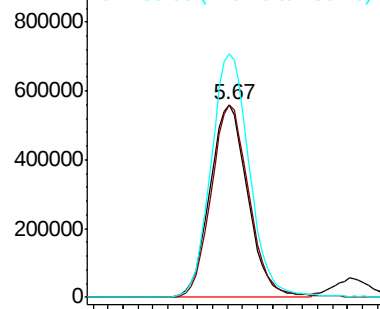
130 129.2 66.1 198.4



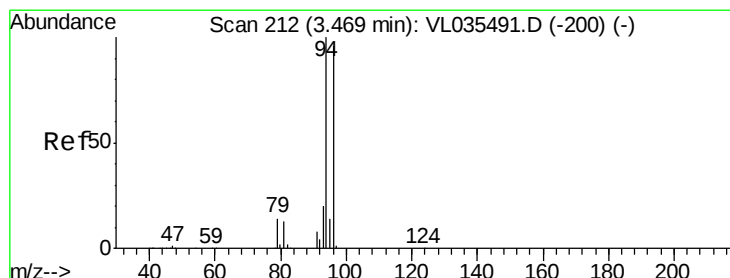
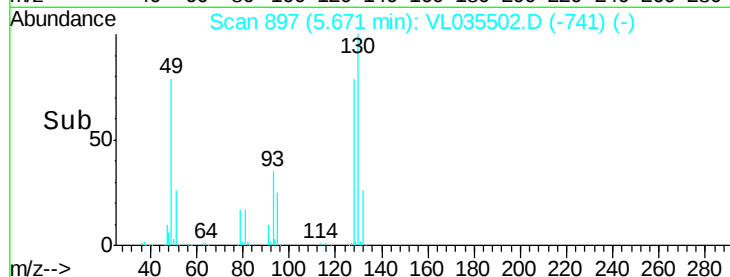
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#6

Bromomethane

Concen: 10.641 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL035502.D

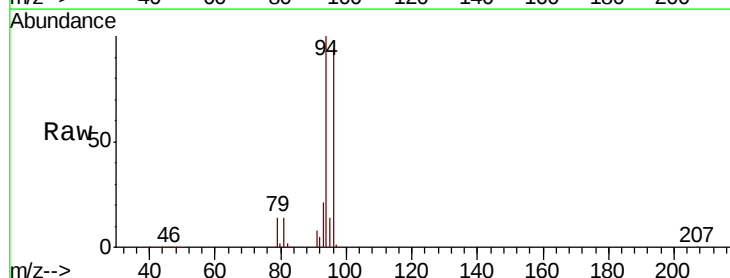
Acq: 23 Aug 2020 17:19

Tgt Ion: 94 Resp: 668511

Ion Ratio Lower Upper

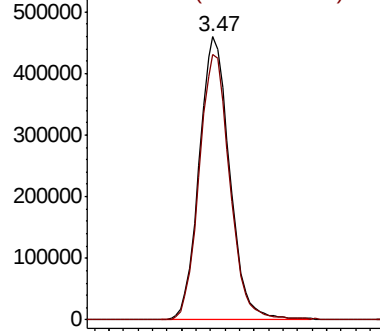
94 100

96 93.9 76.6 115.0

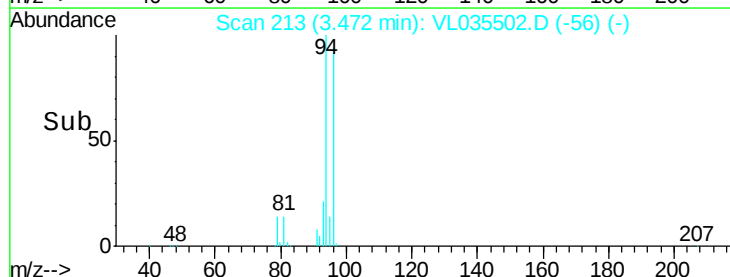


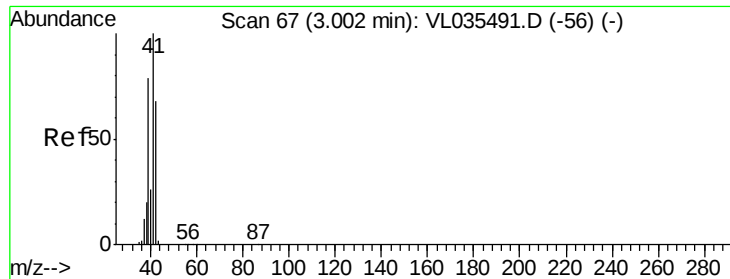
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#9

Propene

Concen: 0.074 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

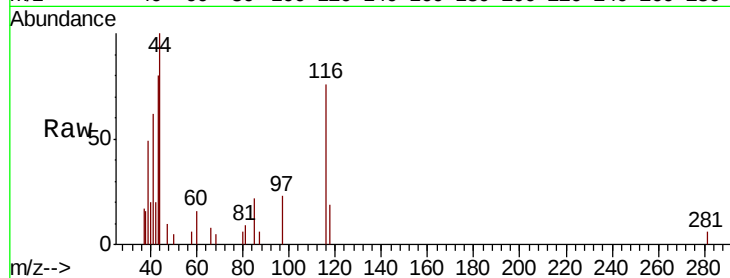
E053-1100DL

Tot Ion: 41 Resp: 3215

Ion Ratio Lower Upper

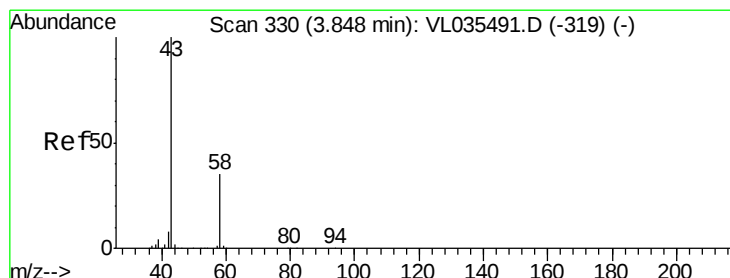
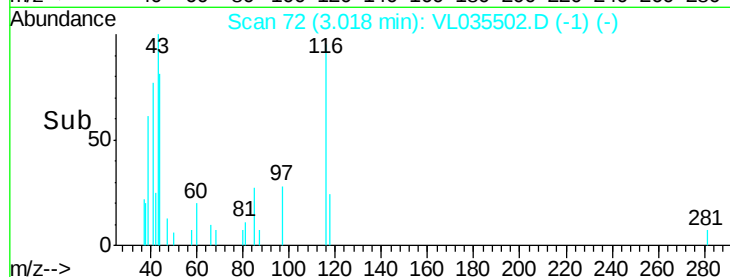
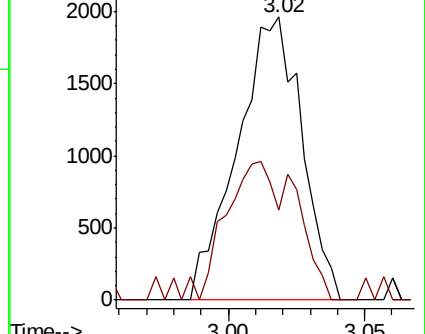
41 100

42 58.8 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#15

Acetone

Concen: 0.156 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.03 min

Lab File: VL035502.D

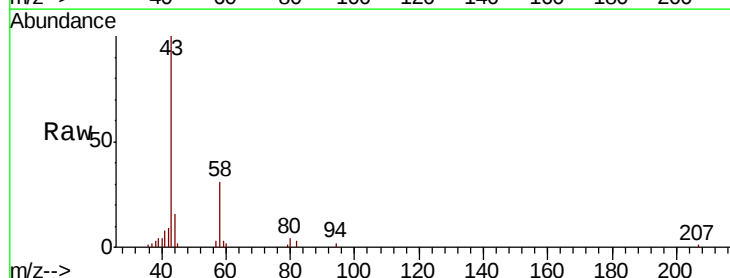
Acq: 23 Aug 2020 17:19

Tgt Ion: 43 Resp: 16298

Ion Ratio Lower Upper

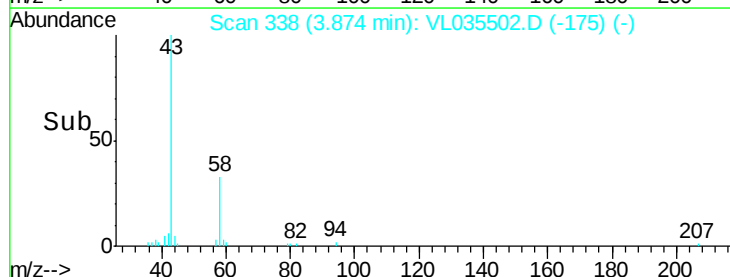
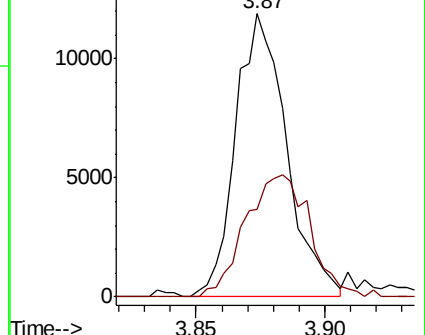
43 100

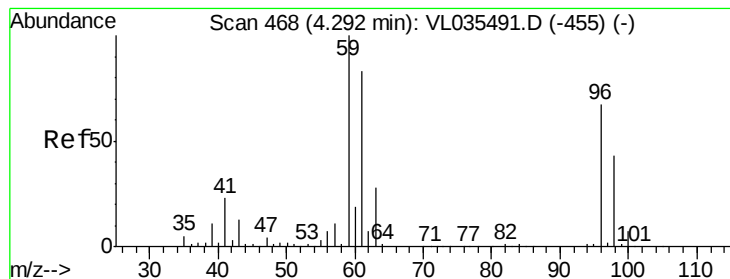
58 55.0 27.8 41.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

tert-Butyl alcohol

Concen: 0.250 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleID :

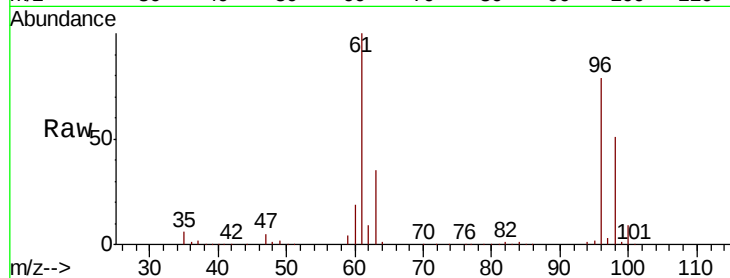
E053-1100DL

Tot Ion: 59 Resp: 33893

Ion Ratio Lower Upper

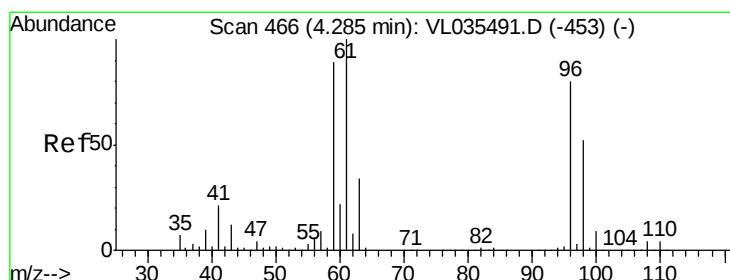
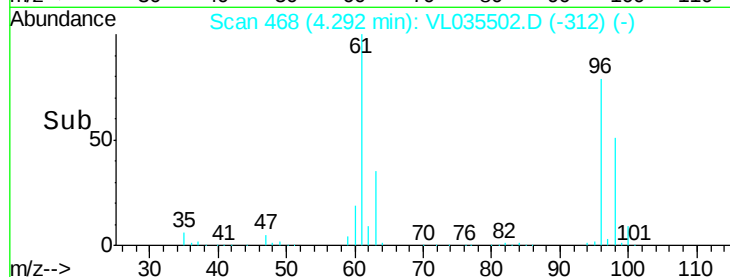
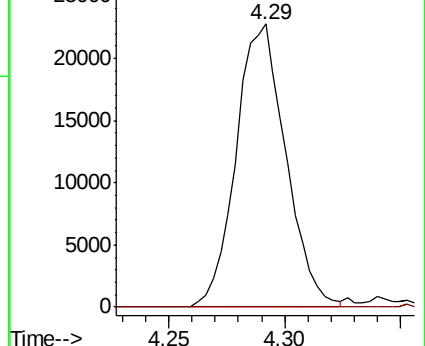
59 100

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: 8.134 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

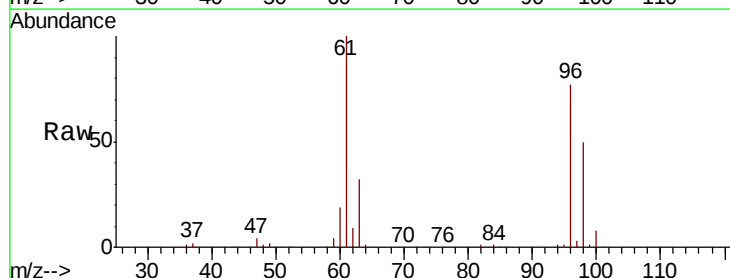
Tgt Ion: 96 Resp: 704107

Ion Ratio Lower Upper

96 100

61 129.8 99.9 149.9

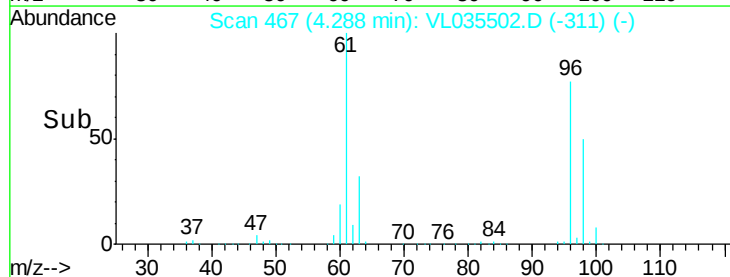
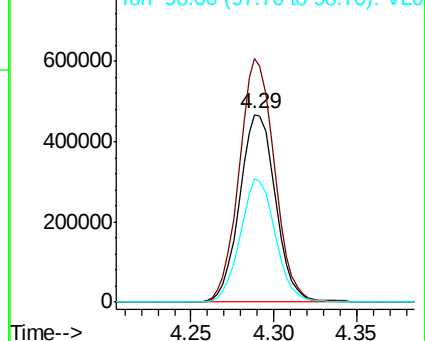
98 65.4 52.2 78.4

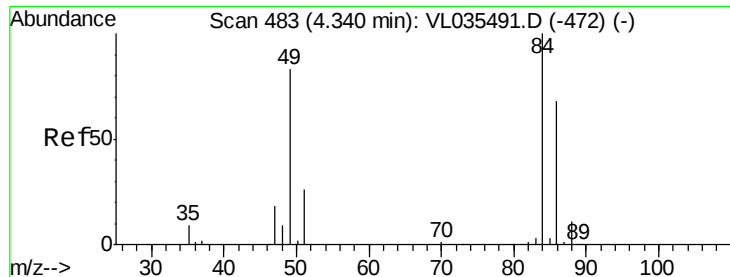


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

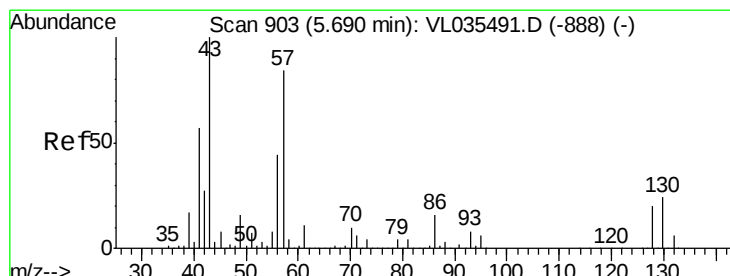
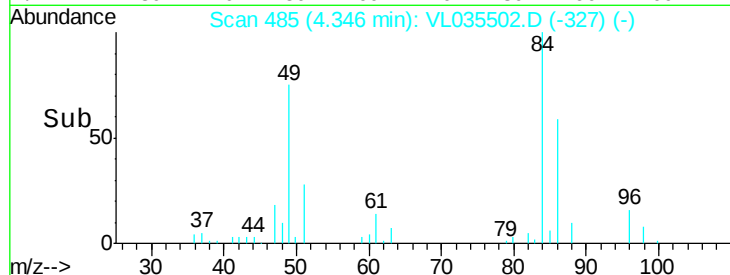
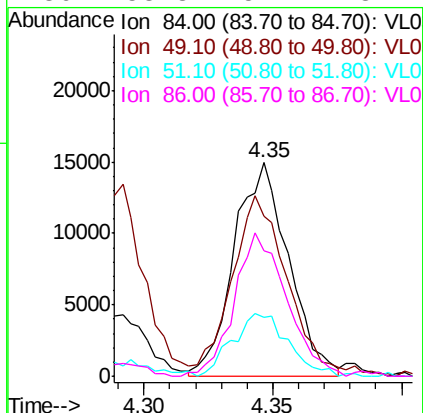
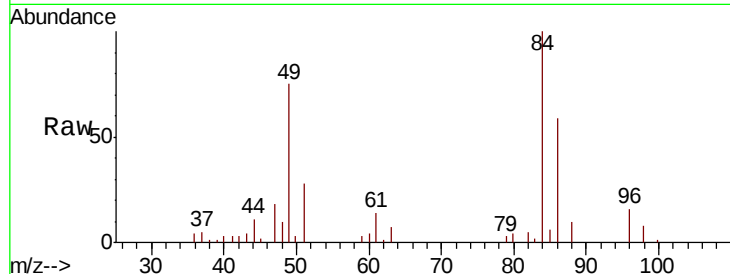




#20
Methvlene Chloride
Concen: 0.195 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL035502.D
Acq: 23 Aug 2020 17:19

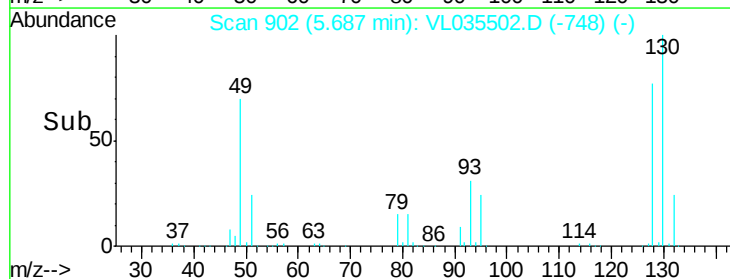
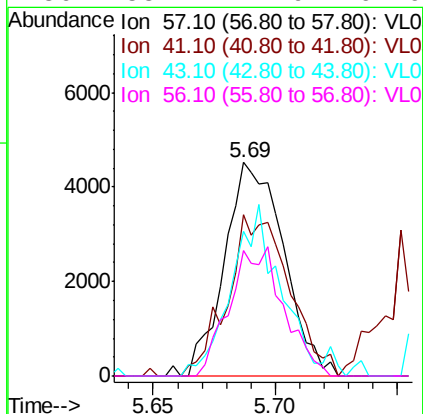
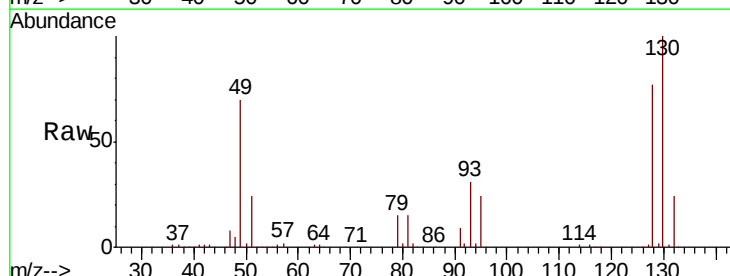
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

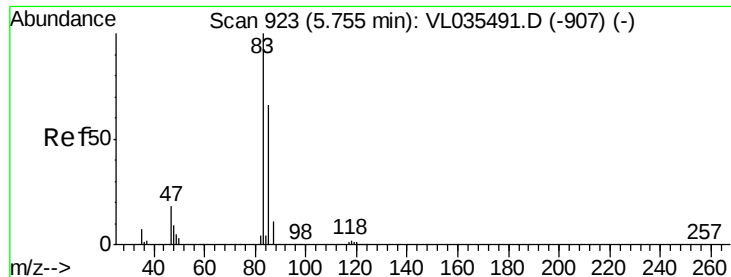
Tot Ion:	84	Resp:	22093
Ion	Ratio	Lower	Upper
84	100		
49	72.3	66.3	99.5
51	28.5	21.1	31.7
86	58.3	54.2	81.4



#26
Hexane
Concen: 0.062 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035502.D
Acq: 23 Aug 2020 17:19

Tgt Ion:	57	Resp:	7602
Ion	Ratio	Lower	Upper
57	100		
41	80.1	56.7	85.1
43	69.5	141.9	212.9#
56	55.1	41.9	62.9

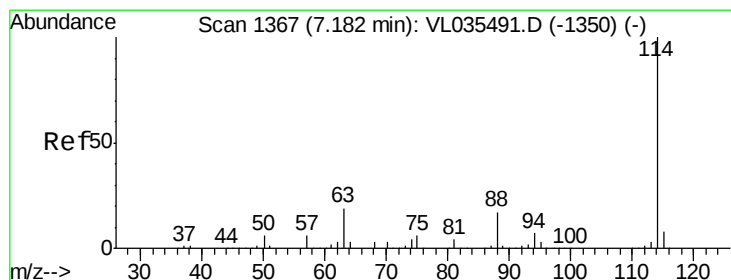
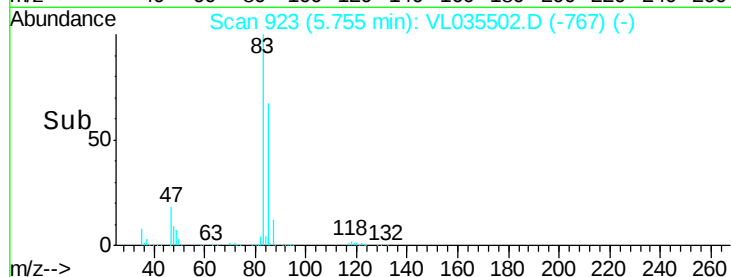
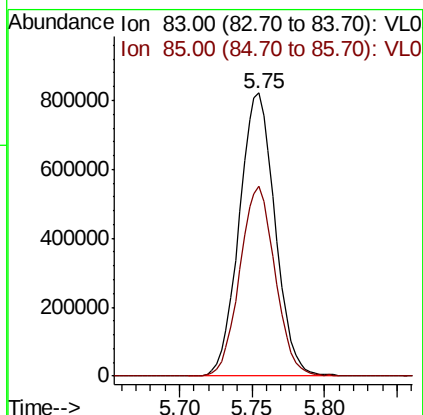
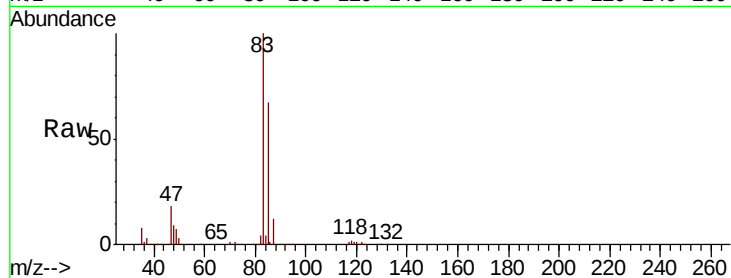




#29
Chloroform
Concen: 6.066 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL035502.D
Acq: 23 Aug 2020 17:19

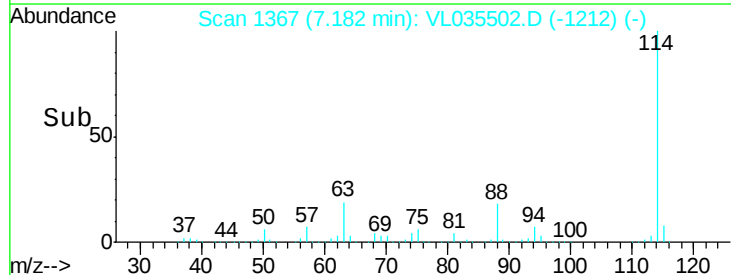
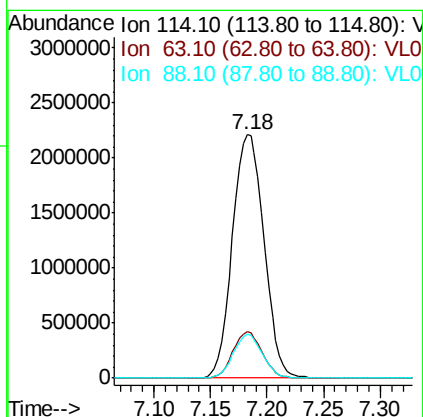
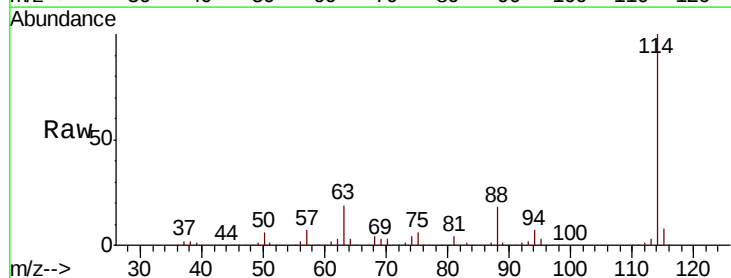
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MSVOA_L
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E053-1100DL

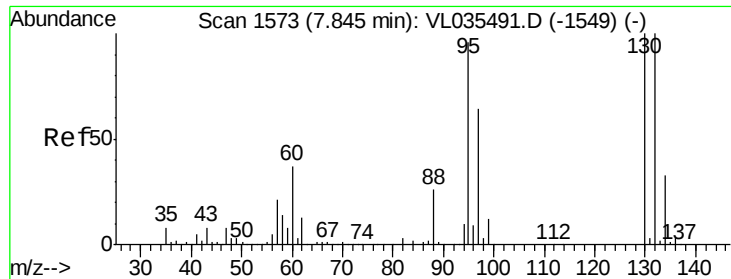
Tot Ion: 83 Resp: 1410664
Ion Ratio Lower Upper
83 100
85 67.0 53.1 79.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL035502.D
Acq: 23 Aug 2020 17:19

Tgt Ion: 114 Resp: 4306757
Ion Ratio Lower Upper
114 100
63 17.8 14.3 21.5
88 16.6 13.2 19.8

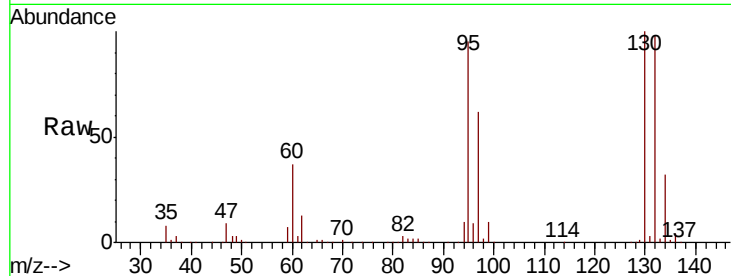




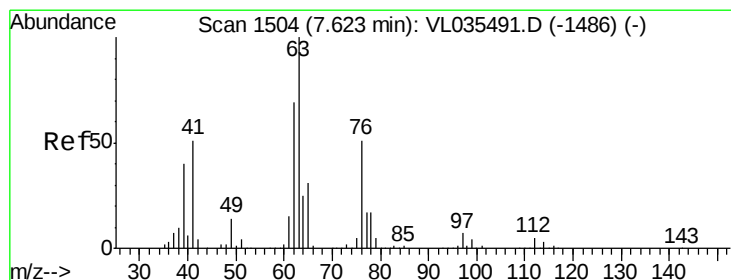
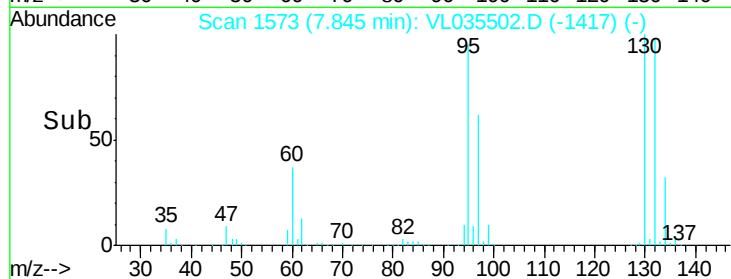
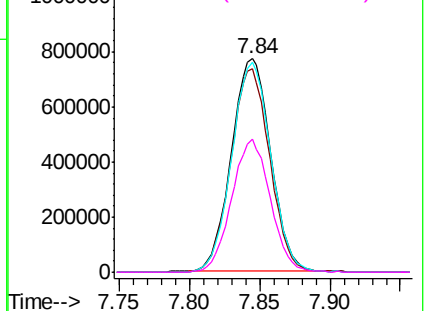
#38
 Trichloroethene
 Concen: 9.641 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tot Ion:130 Resp: 1509019
 Ion Ratio Lower Upper
 130 100
 95 95.2 76.9 115.3
 132 98.2 80.2 120.4
 97 62.5 51.2 76.8

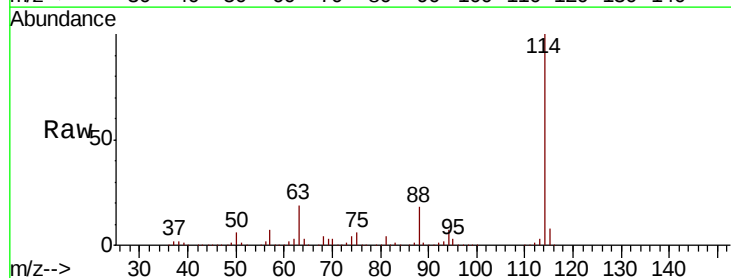


Abundance Ion 130.00 (129.70 to 130.70): V
 1200000 Ion 95.00 (94.70 to 95.70): VL0
 1000000 Ion 132.00 (131.70 to 132.70): V
 800000 Ion 97.00 (96.70 to 97.70): VL0
 600000
 400000
 200000
 0

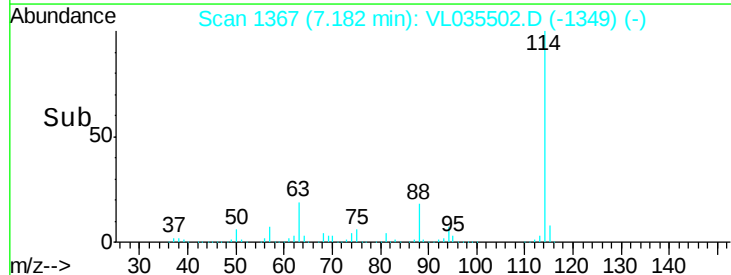
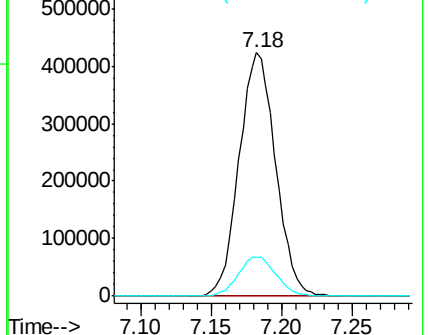


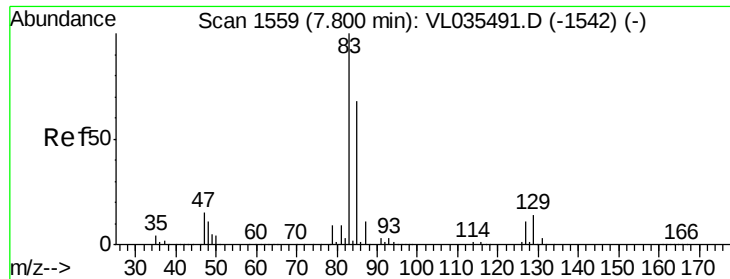
#39
 1,2-Dichloropropane
 Concen: 8.110 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.44 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

Tgt Ion: 63 Resp: 765663
 Ion Ratio Lower Upper
 63 100
 41 0.0 40.9 61.3#
 62 16.2 55.3 82.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 500000 Ion 41.10 (40.80 to 41.80): VL0
 400000 Ion 62.10 (61.80 to 62.80): VL0
 300000
 200000
 100000
 0





#42

Bromodichloromethane

Concen: 11.631 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

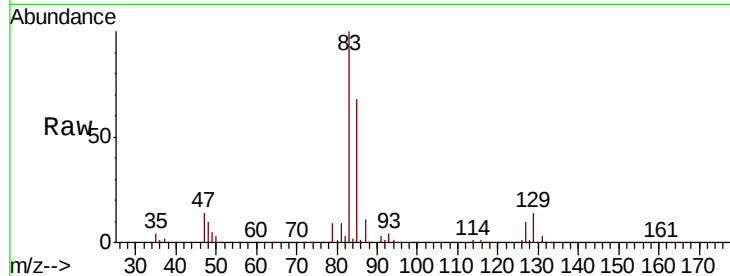
Tot Ion: 83 Resp: 2545998

Ion Ratio Lower Upper

83 100

85 67.7 54.8 82.2

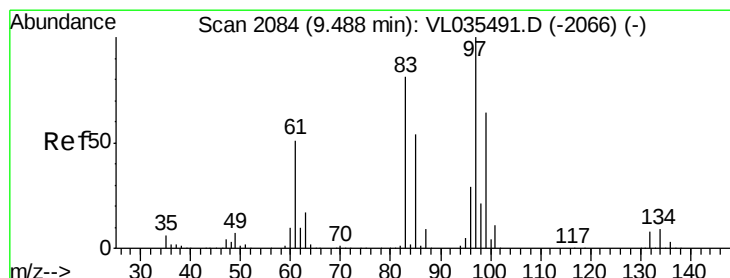
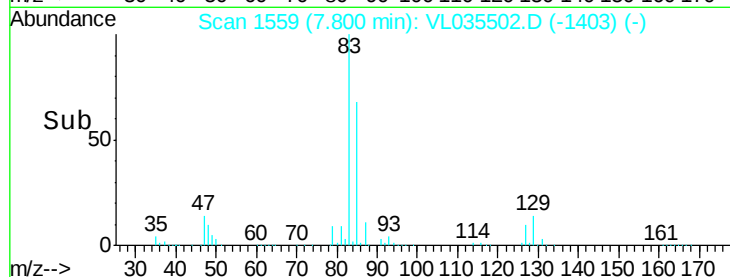
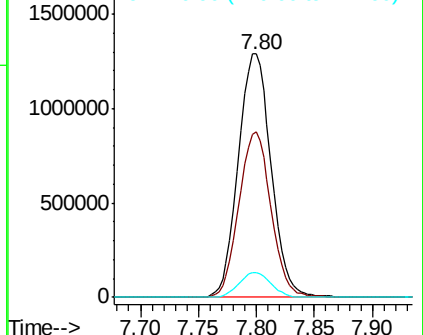
127 10.1 8.6 13.0



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): VL0



#47

1,1,2-Trichloroethane

Concen: 7.440 ppbv

RT: 9.49 min Scan# 2084

Delta R.T. -0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Tgt Ion: 97 Resp: 1054503

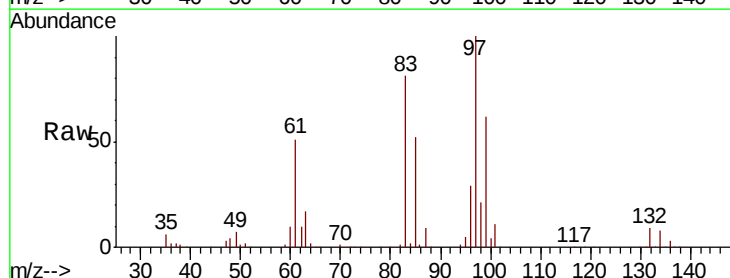
Ion Ratio Lower Upper

97 100

83 81.0 64.9 97.3

85 51.9 43.1 64.7

99 61.9 51.5 77.3

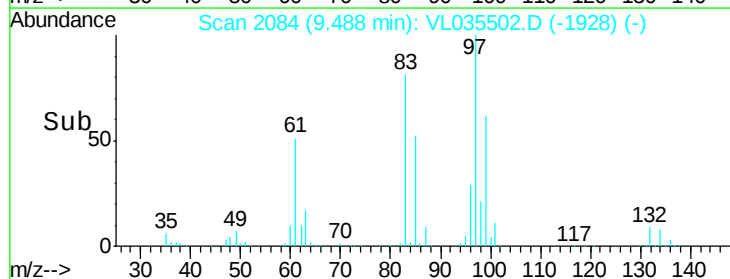
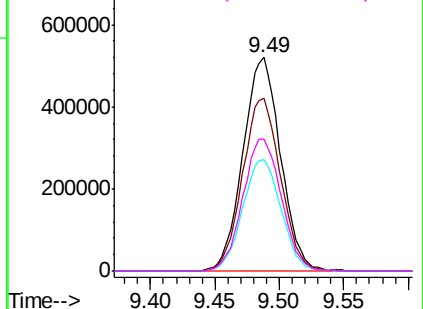


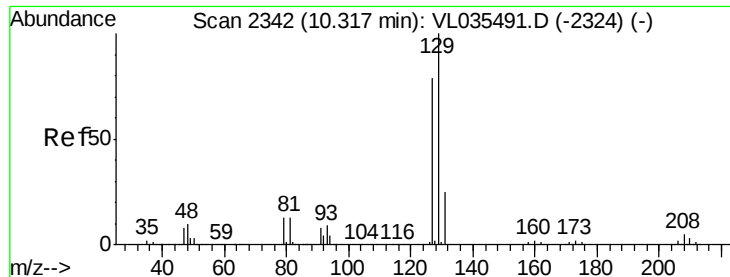
Abundance Ion 97.00 (96.70 to 97.70): VL0

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

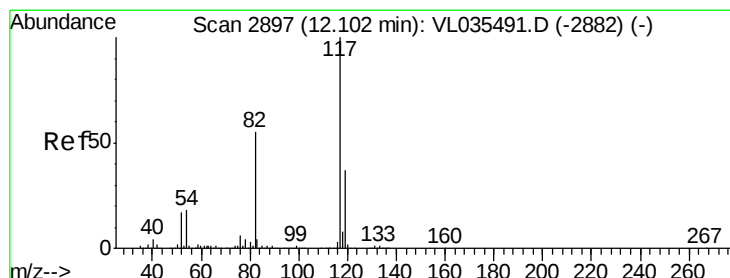
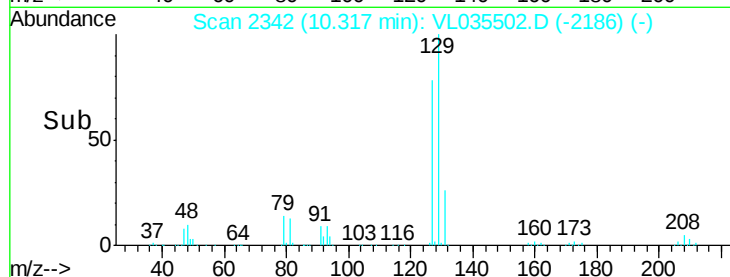
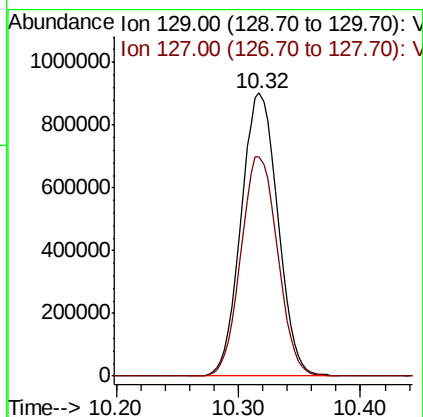
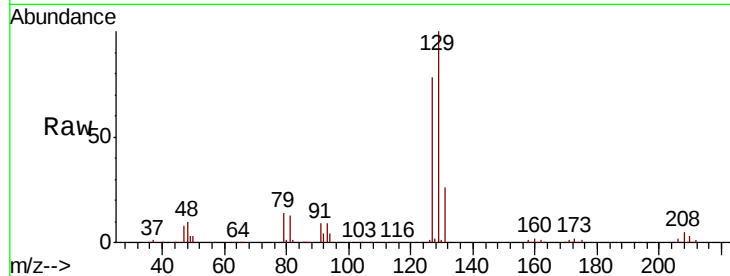




#48
 Dibromochloromethane
 Concen: 8.319 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

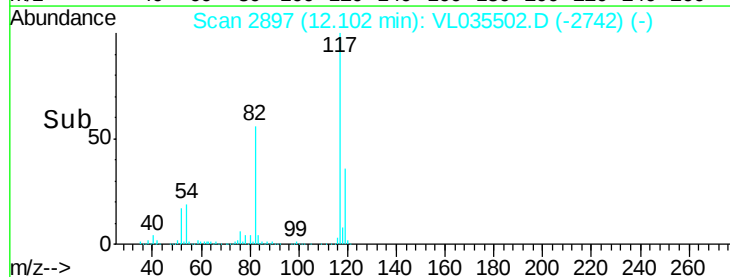
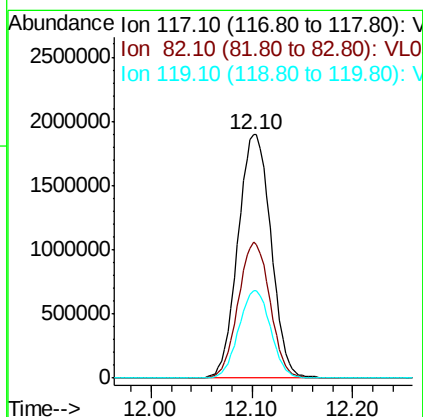
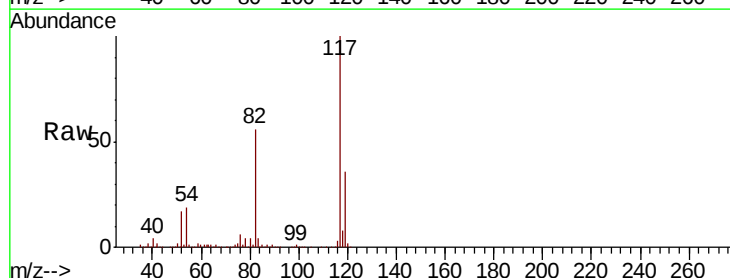
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

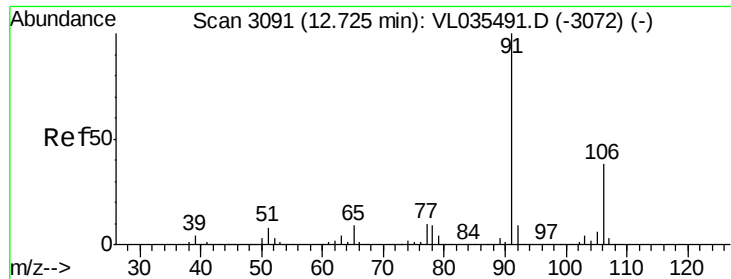
Tot Ion:129 Resp: 1876813
 Ion Ratio Lower Upper
 129 100
 127 77.9 39.1 117.5



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2897
 Delta R.T. -0.00 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

Tgt Ion:117 Resp: 4301760
 Ion Ratio Lower Upper
 117 100
 82 54.0 43.9 65.9
 119 34.8 30.4 45.6





#58

Ethyl Benzene

Concen: 6.215 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

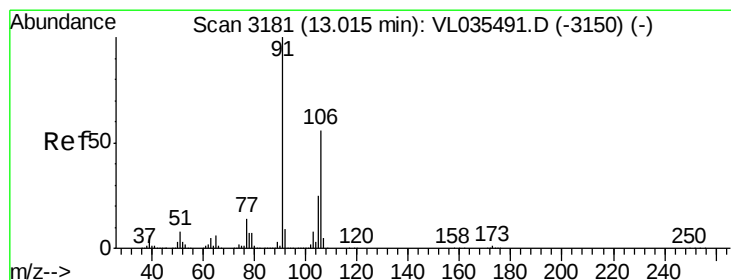
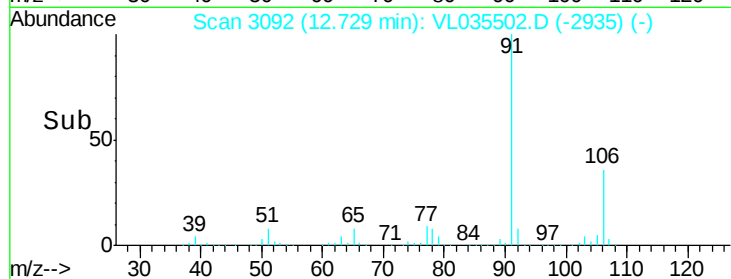
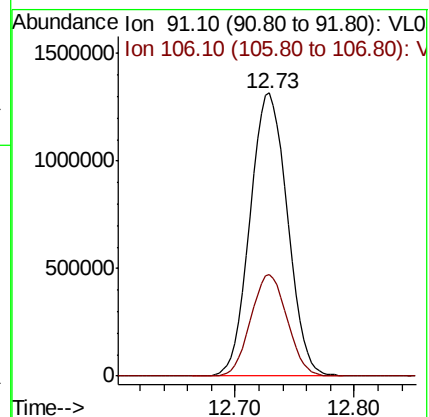
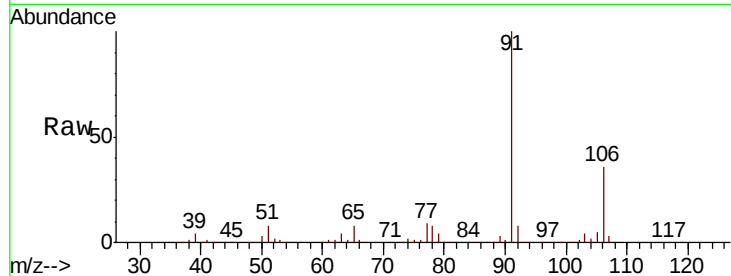
E053-1100DL

Tot Ion: 91 Resp: 2870318

Ion Ratio Lower Upper

91 100

106 35.7 30.2 45.2



#59

m/p-Xylene

Concen: 7.302 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.29 min

Lab File: VL035502.D

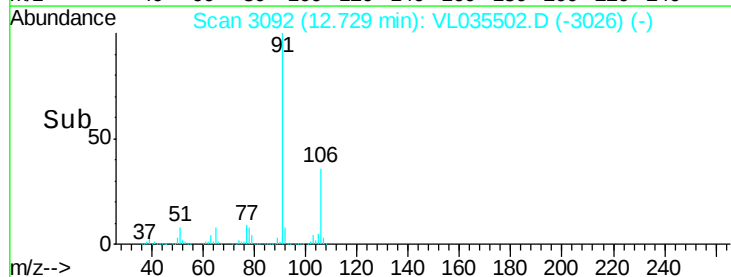
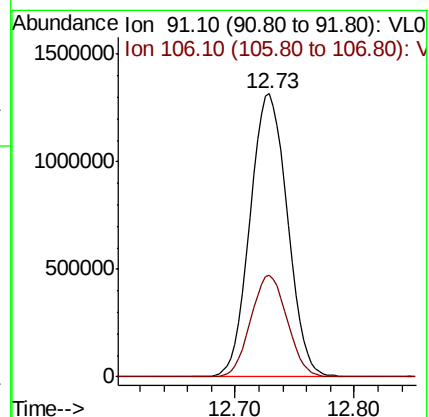
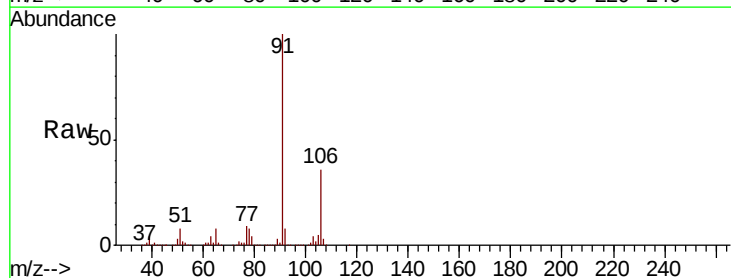
Acq: 23 Aug 2020 17:19

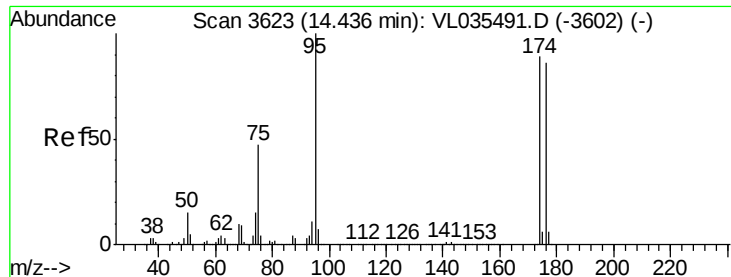
Tgt Ion: 91 Resp: 2870318

Ion Ratio Lower Upper

91 100

106 35.1 42.6 63.8#

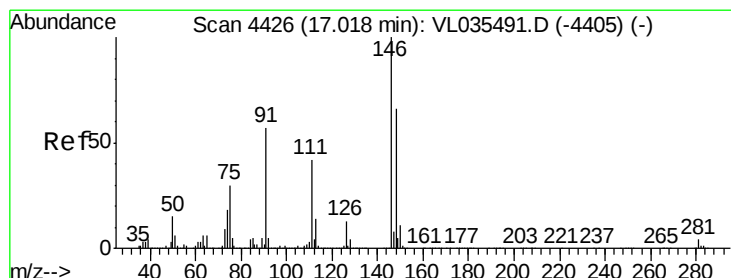
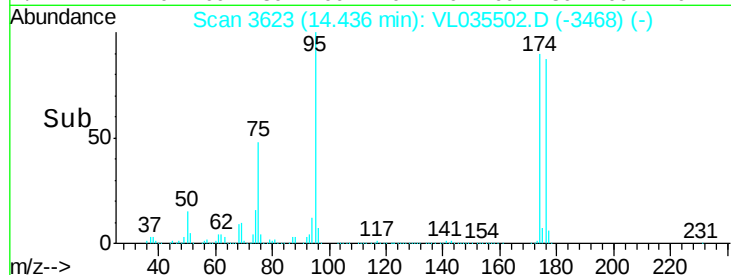
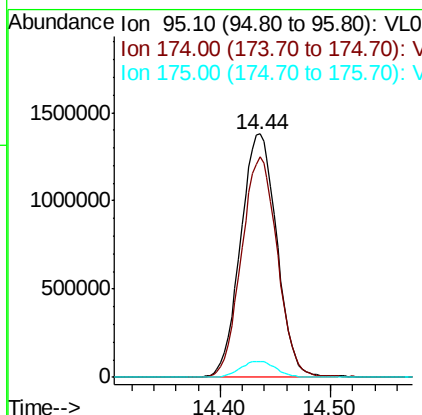
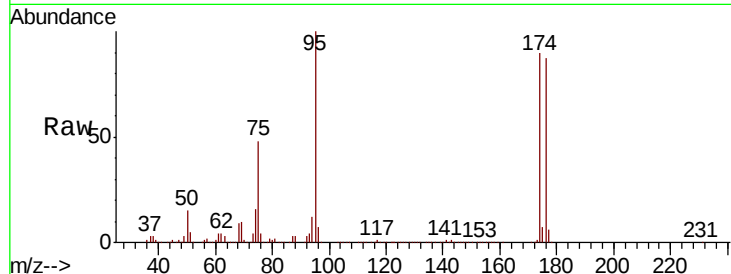




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.210 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

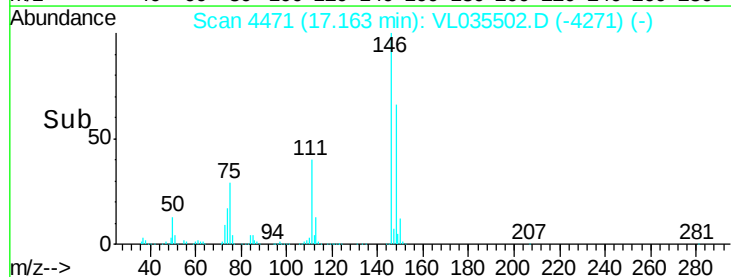
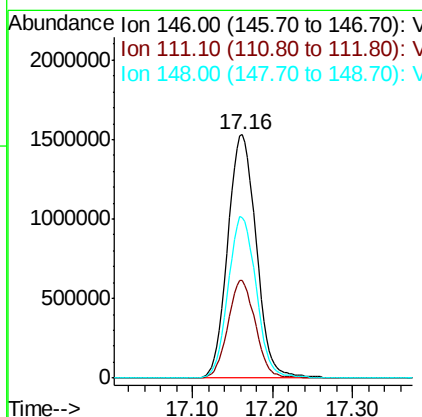
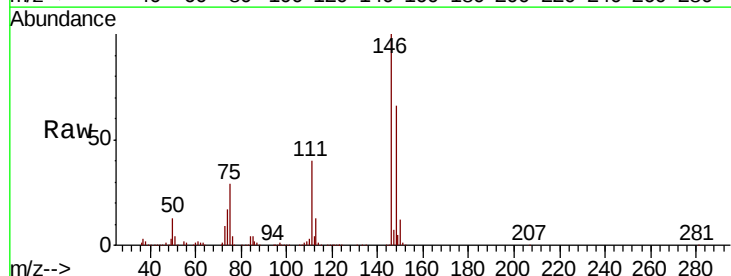
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

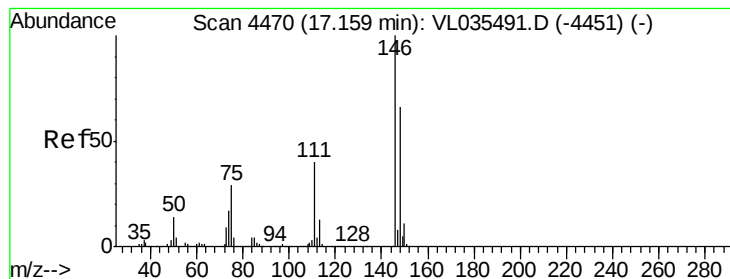
Tot Ion: 95 Resp: 3138640
 Ion Ratio Lower Upper
 95 100
 174 90.5 70.9 106.3
 175 6.6 5.1 7.7



#75
 1,3-Dichlorobenzene
 Concen: 9.900 ppbv
 RT: 17.16 min Scan# 4471
 Delta R.T. 0.14 min
 Lab File: VL035502.D
 Acq: 23 Aug 2020 17:19

Tgt Ion: 146 Resp: 3709805
 Ion Ratio Lower Upper
 146 100
 111 38.8 20.3 61.0
 148 65.7 33.1 99.5





#76

1,4-Dichlorobenzene

Concen: 9.889 ppbv

RT: 17.16 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

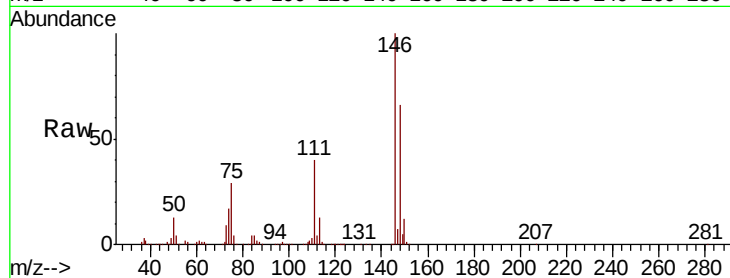
Tot Ion:146 Resp: 3709805

Ion Ratio Lower Upper

146 100

111 38.8 19.6 58.8

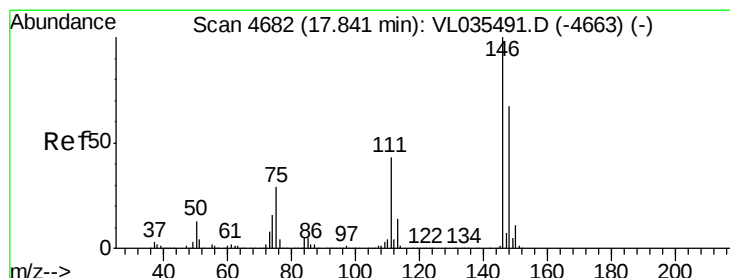
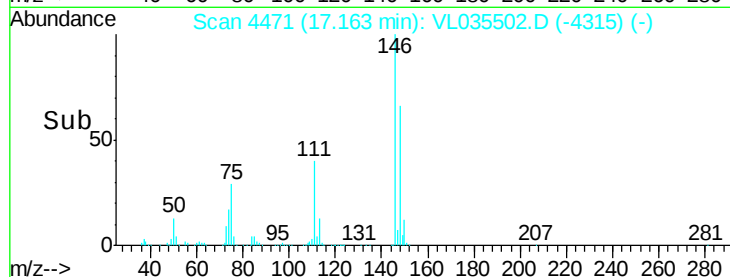
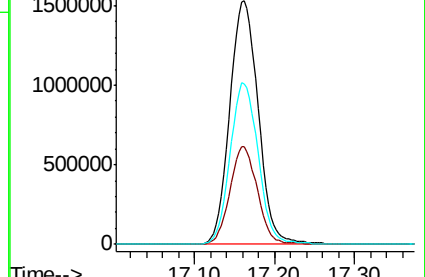
148 65.6 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 9.574 ppbv

RT: 17.84 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL035502.D

Acq: 23 Aug 2020 17:19

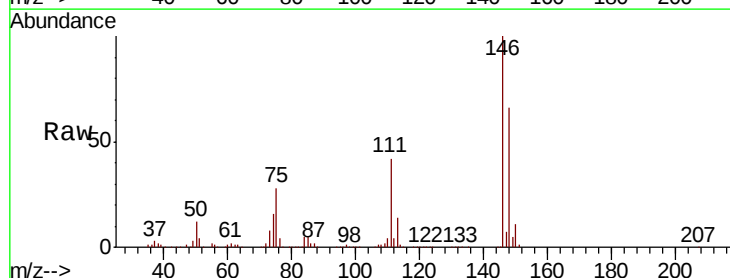
Tgt Ion:146 Resp: 3538974

Ion Ratio Lower Upper

146 100

111 41.5 21.0 63.0

148 65.5 33.0 98.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

