

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035441.D
 Acq On : 18 Aug 2020 12:02
 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 19 01:24:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1036787	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4492449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4491988	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3242701	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

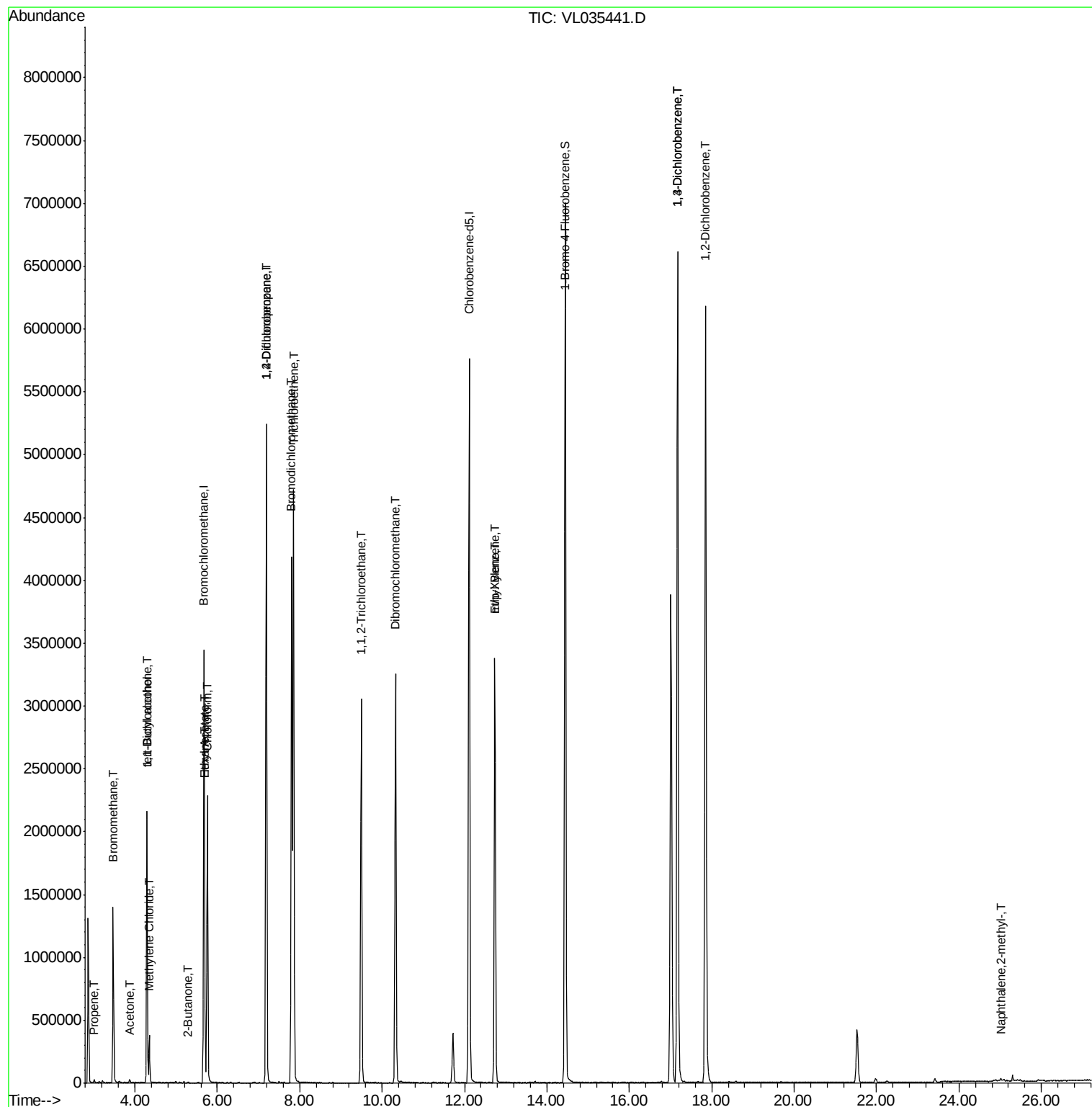
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	3.47	94	745342	10.530	ppbv	99
9) Propene	3.02	41	3669	0.070	ppbv	87
15) Acetone	3.87	43	23677	0.198	ppbv #	72
17) tert-Butyl alcohol	4.29	59	36606	0.237	ppbv #	71
18) 1,1-Dichloroethene	4.29	96	776486	7.827	ppbv #	59
20) Methylene Chloride	4.35	84	163485	1.698	ppbv #	62
25) Ethyl Acetate	5.70	43	48853	0.210	ppbv #	79
26) Hexane	5.70	57	87292	0.666	ppbv #	31
29) Chloroform	5.76	83	1596782	6.065	ppbv	99
34) 2-Butanone	5.29	43	6615	0.044	ppbv #	76
38) Trichloroethene	7.85	130	1763170	9.613	ppbv #	82
39) 1,2-Dichloropropane	7.19	63	786608	7.239	ppbv #	23
42) Bromodichloromethane	7.81	83	2857081	11.331	ppbv #	98
47) 1,1,2-Trichloroethane	9.49	97	1198538	7.384	ppbv	92
48) Dibromochloromethane	10.32	129	2165242	7.952	ppbv	99
58) Ethyl Benzene	12.74	91	3236945	5.969	ppbv #	89
59) m/p-Xylene	12.74	91	3236945	7.062	ppbv	89
75) 1,3-Dichlorobenzene	17.17	146	4344699	9.517	ppbv	91
76) 1,4-Dichlorobenzene	17.17	146	4344699	9.657	ppbv	91
77) 1,2-Dichlorobenzene	17.85	146	4153559	9.289	ppbv	91
80) Naphthalene,2-methyl-	25.01	142	11170	0.032	ppbv #	82

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

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QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

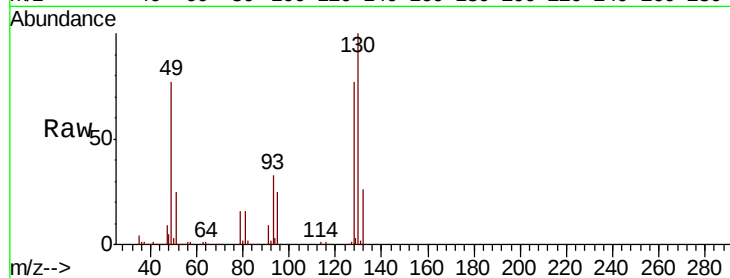
Tot Ion: 49 Resp: 1036787

Ion Ratio Lower Upper

49 100

128 100.2 20.9 62.7#

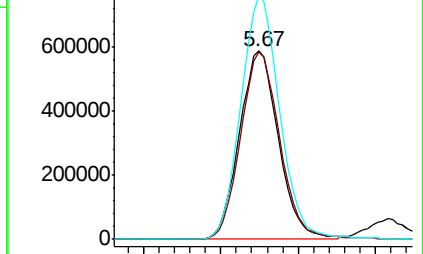
130 129.6 26.7 80.1#



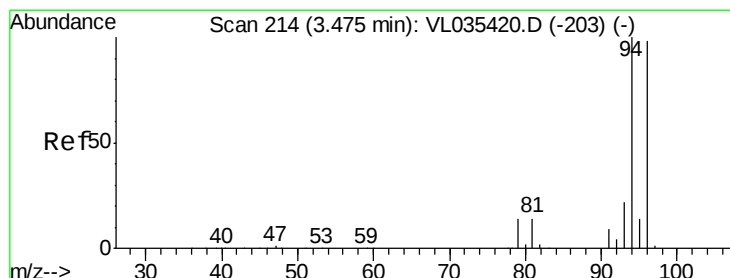
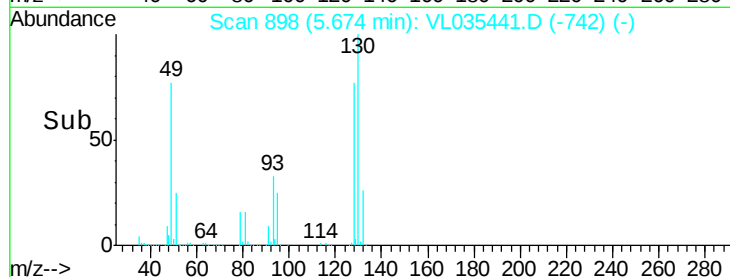
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#6

Bromomethane

Concen: 10.530 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL035441.D

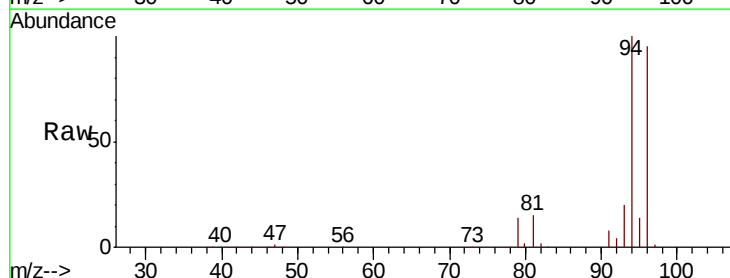
Acq: 18 Aug 2020 12:02

Tgt Ion: 94 Resp: 745342

Ion Ratio Lower Upper

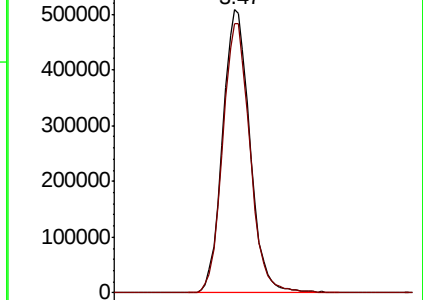
94 100

96 95.1 75.0 112.6

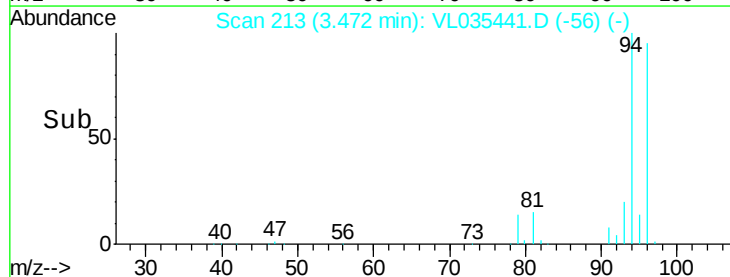


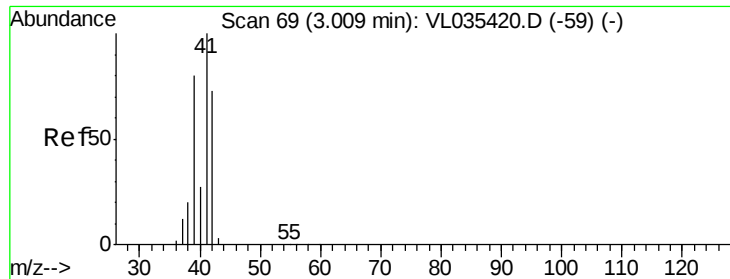
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#9

Propene

Concen: 0.070 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

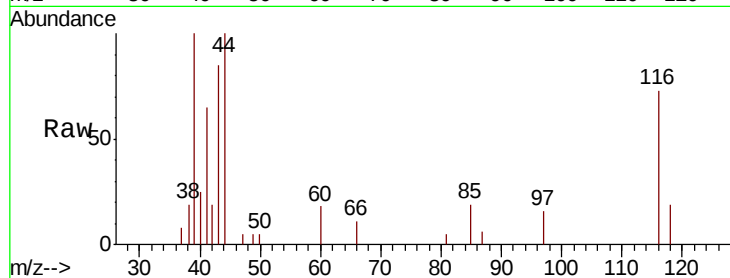
E053-1100DL

Tot Ion: 41 Resp: 3669

Ion Ratio Lower Upper

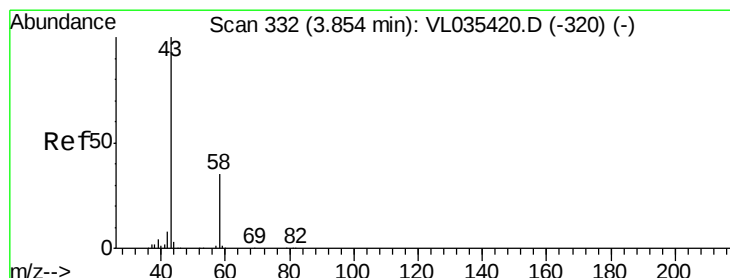
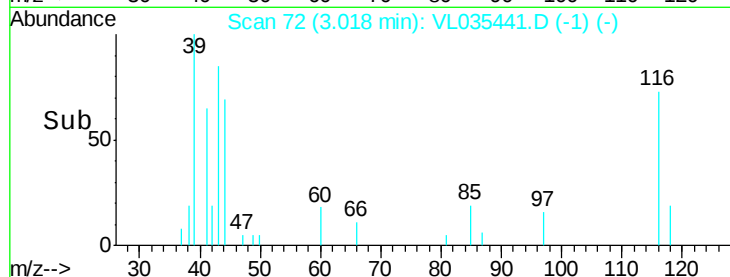
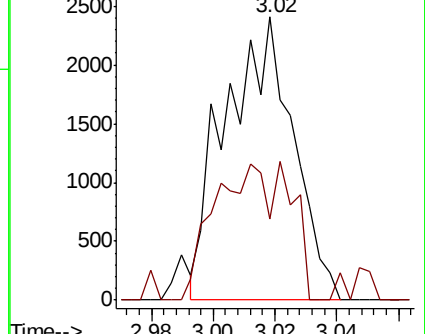
41 100

42 59.1 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#15

Acetone

Concen: 0.198 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.03 min

Lab File: VL035441.D

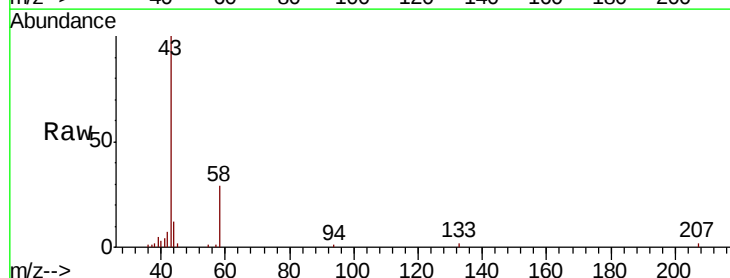
Acq: 18 Aug 2020 12:02

Tgt Ion: 43 Resp: 23677

Ion Ratio Lower Upper

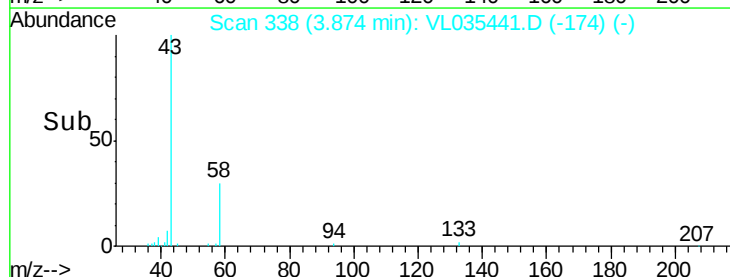
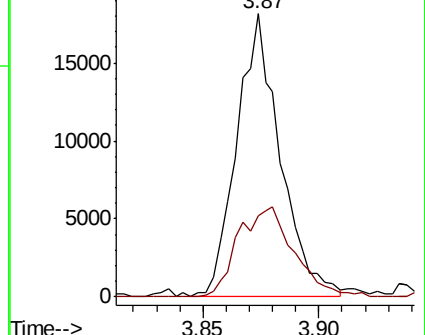
43 100

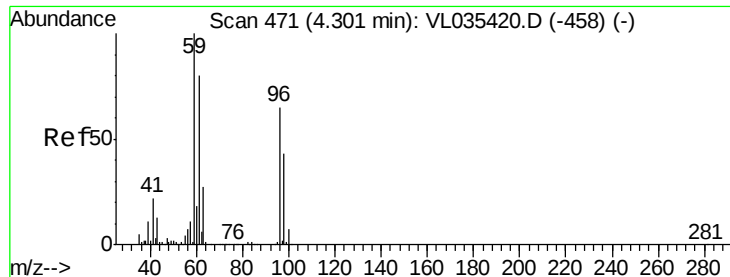
58 40.8 21.0 31.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#17

tert-Butyl alcohol

Concen: 0.237 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

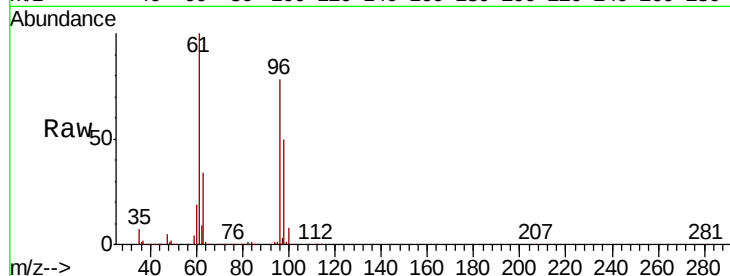
E053-1100DL

Tot Ion: 59 Resp: 36606

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#

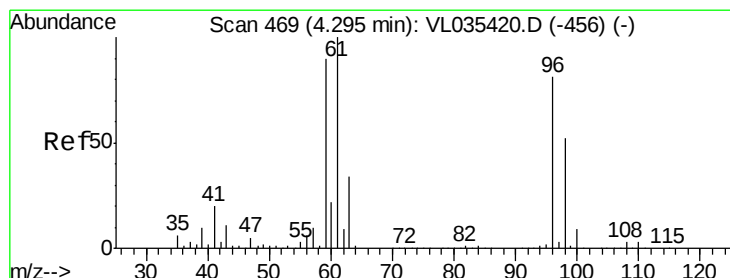
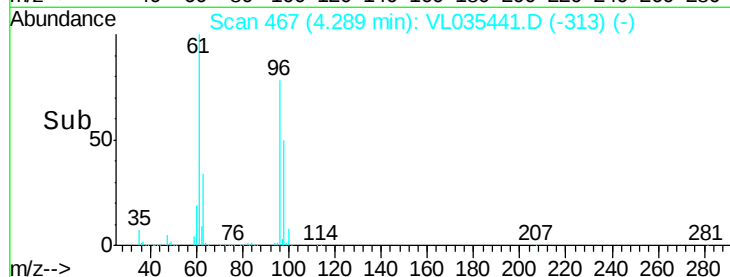


Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

Time-->



#18

1,1-Dichloroethene

Concen: 7.827 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

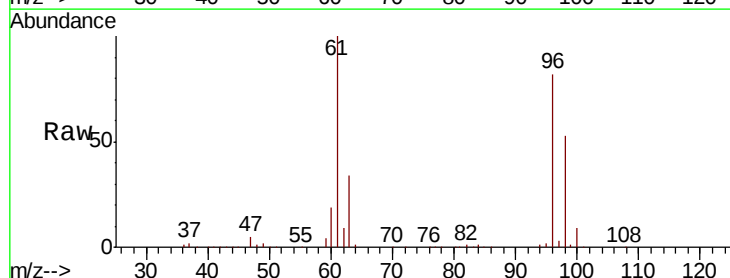
Tgt Ion: 96 Resp: 776486

Ion Ratio Lower Upper

96 100

61 122.2 161.8 242.6#

98 64.7 49.3 73.9



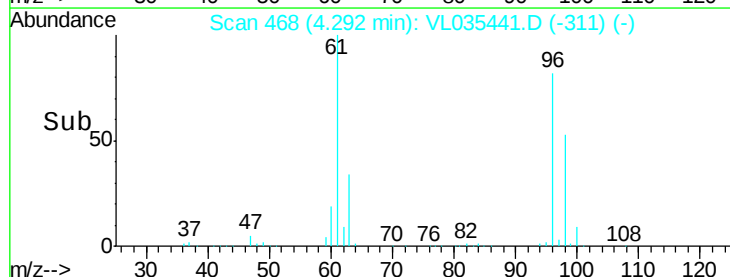
Abundance Ion 96.00 (95.70 to 96.70): VL0

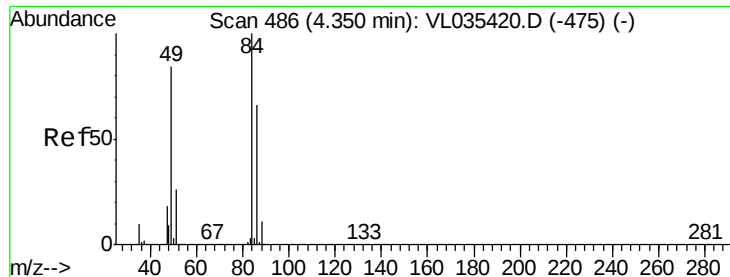
Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.29

Time-->

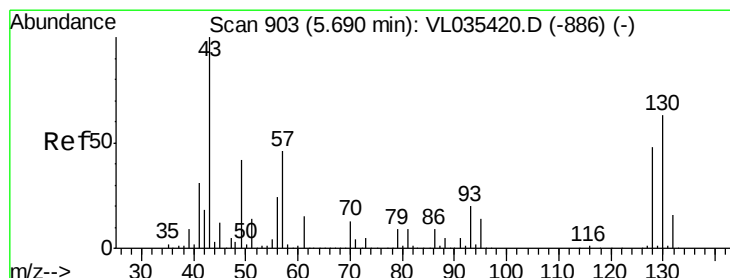
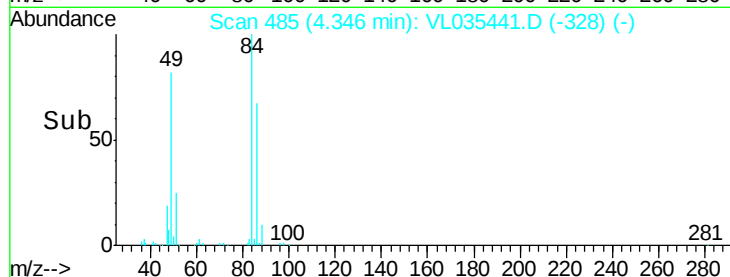
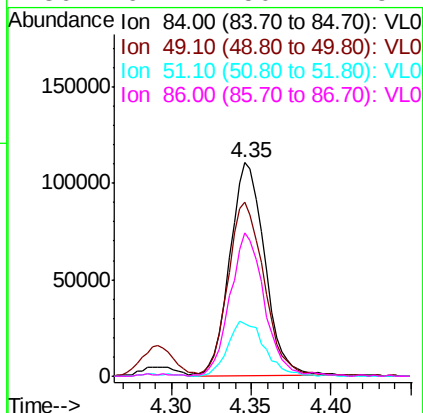
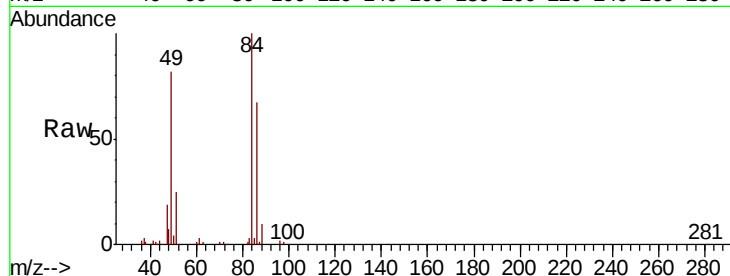




#20
Methvlene Chloride
Concen: 1.698 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035441.D
Acq: 18 Aug 2020 12:02

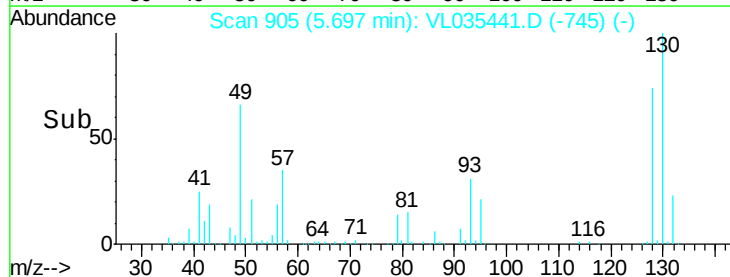
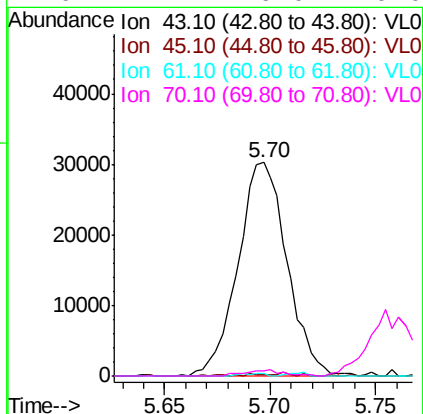
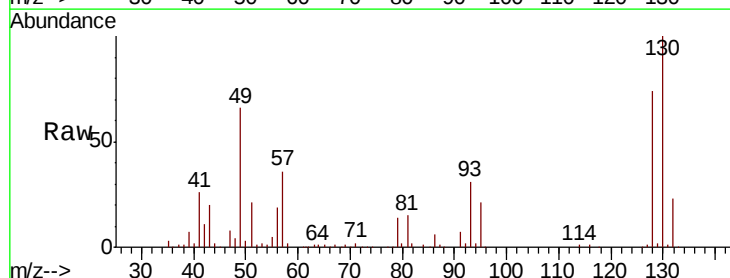
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

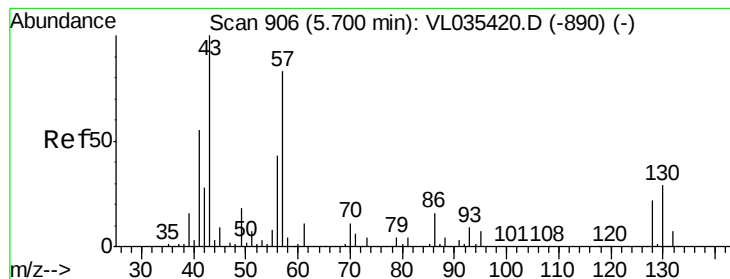
Tot Ion: 84 Resp: 163485
Ion Ratio Lower Upper
84 100
49 81.5 118.6 177.8#
51 24.7 36.4 54.6#
86 67.2 50.2 75.4



#25
Ethyl Acetate
Concen: 0.210 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL035441.D
Acq: 18 Aug 2020 12:02

Tgt Ion: 43 Resp: 48853
Ion Ratio Lower Upper
43 100
45 1.2 8.3 12.5#
61 1.1 7.6 11.4#
70 2.4 6.0 9.0#





#26

Hexane

Concen: 0.666 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

Tot Ion: 57 Resp: 87292

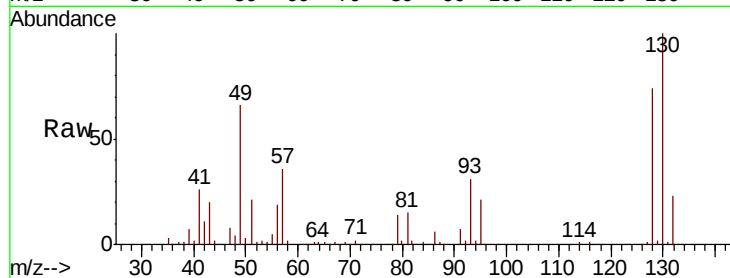
Ion Ratio Lower Upper

57 100

41 73.4 75.5 113.3#

43 56.3 181.7 272.5#

56 56.0 42.4 63.6

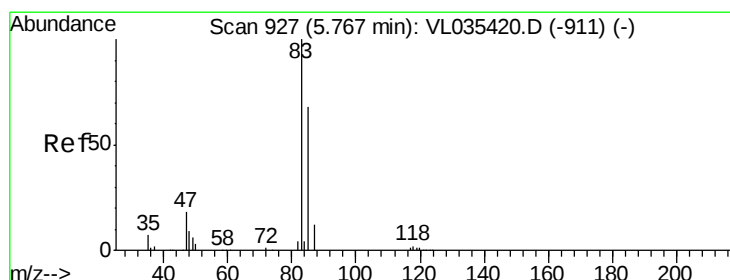
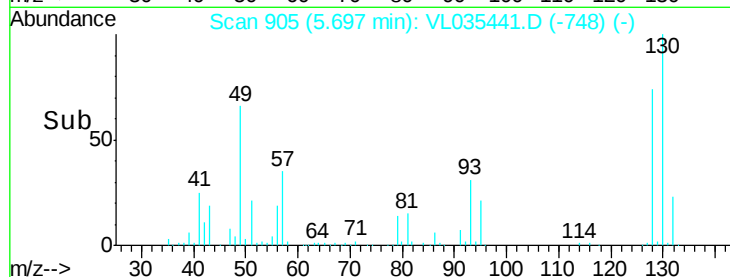
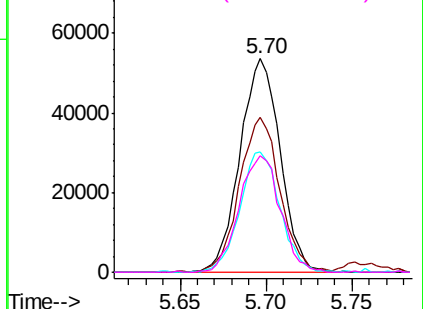


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 6.065 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL035441.D

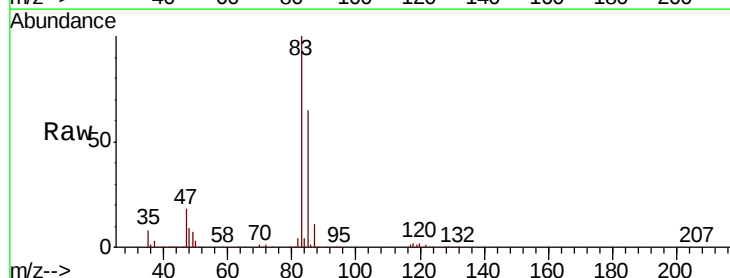
Acq: 18 Aug 2020 12:02

Tgt Ion: 83 Resp: 1596782

Ion Ratio Lower Upper

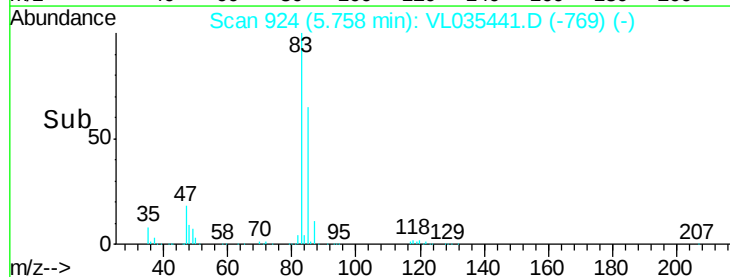
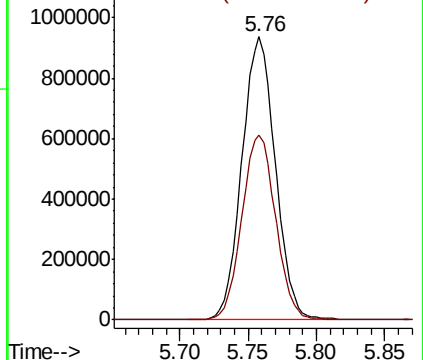
83 100

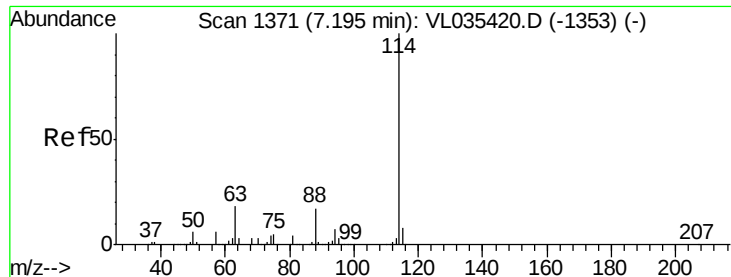
85 65.3 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

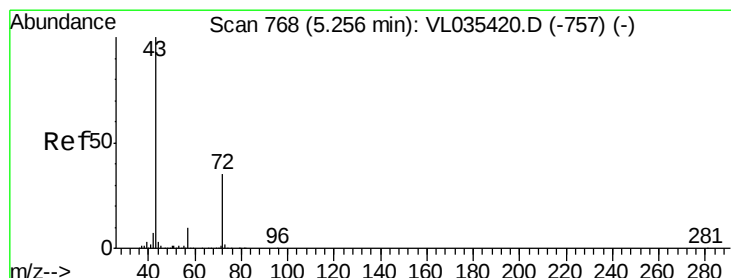
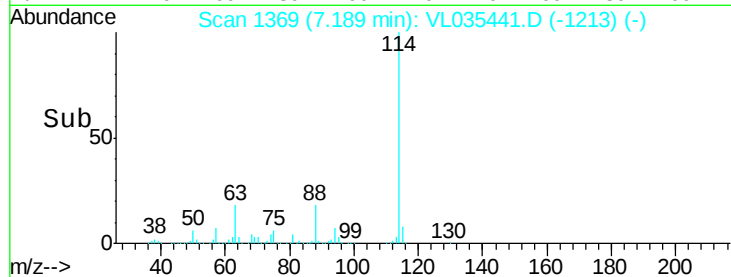
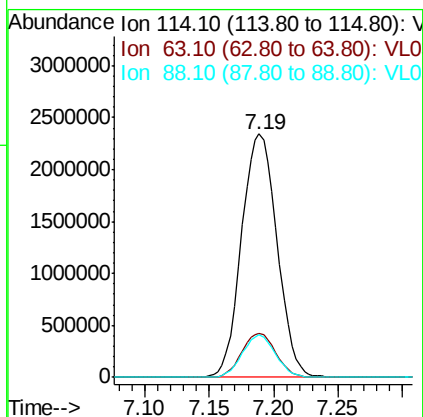
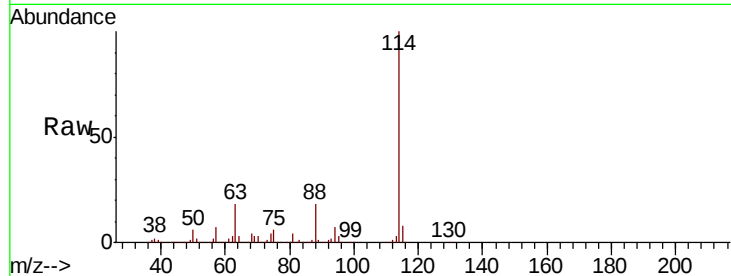




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VL035441.D
 Acq: 18 Aug 2020 12:02

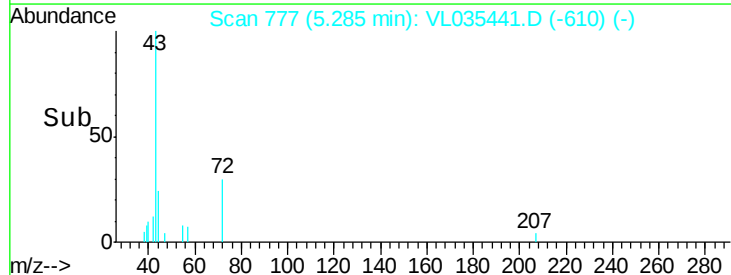
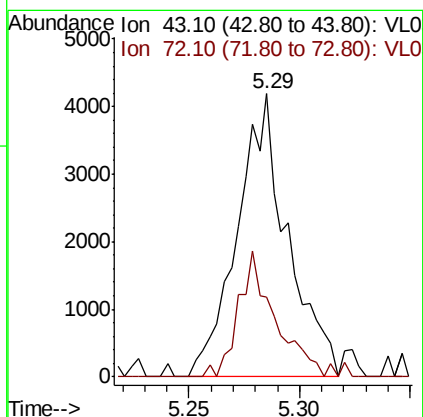
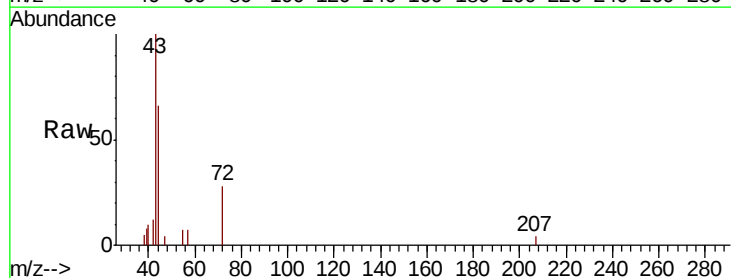
Instrument :
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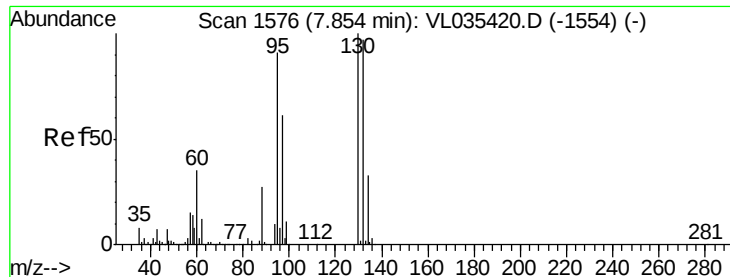
Tot Ion:114 Resp: 4492449
 Ion Ratio Lower Upper
 114 100
 63 17.6 23.1 34.7#
 88 16.3 15.9 23.9



#34
 2-Butanone
 Concen: 0.044 ppbv
 RT: 5.29 min Scan# 777
 Delta R.T. 0.04 min
 Lab File: VL035441.D
 Acq: 18 Aug 2020 12:02

Tgt Ion: 43 Resp: 6615
 Ion Ratio Lower Upper
 43 100
 72 33.4 17.6 26.4#





#38

Trichloroethene

Concen: 9.613 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

Tot Ion:130 Resp: 1763170

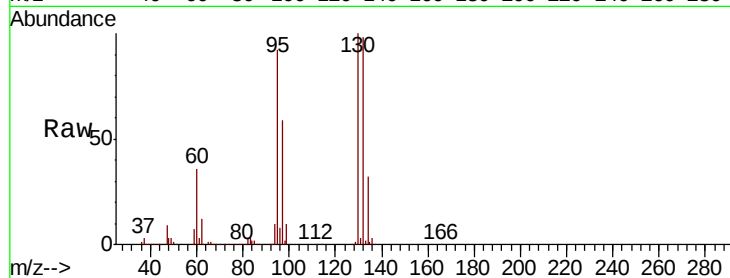
Ion Ratio Lower Upper

130 100

95 92.0 95.8 143.8#

132 98.0 74.3 111.5

97 59.4 62.6 94.0#

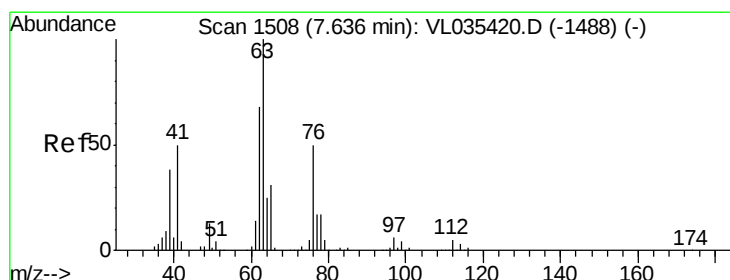
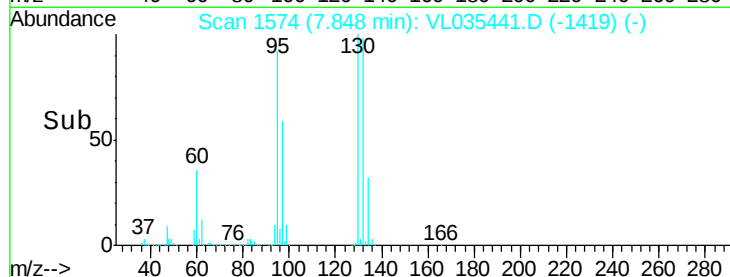
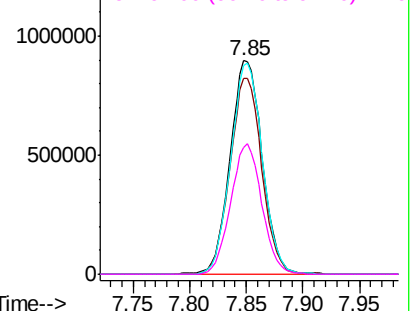


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.239 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.44 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

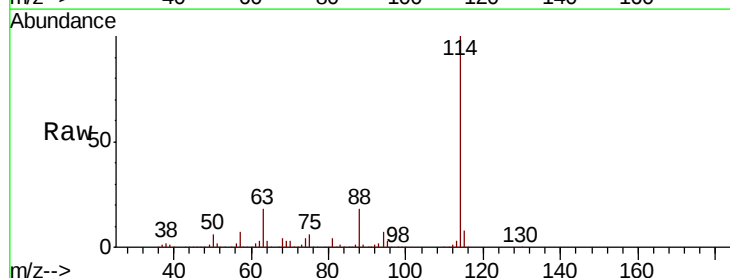
Tgt Ion: 63 Resp: 786608

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

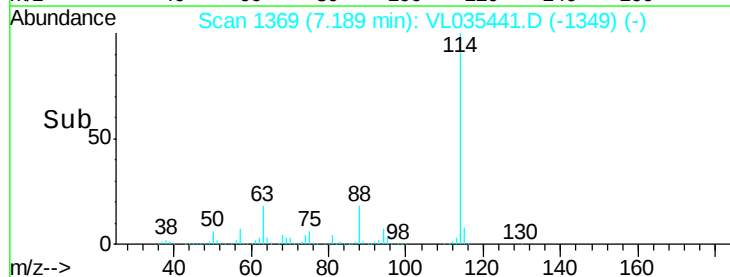
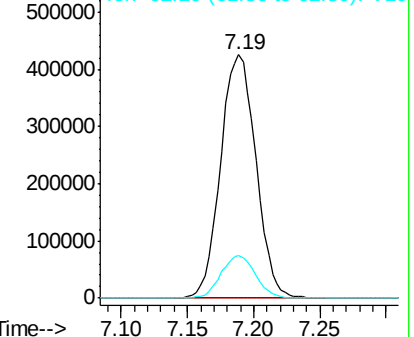
62 17.3 55.3 82.9#

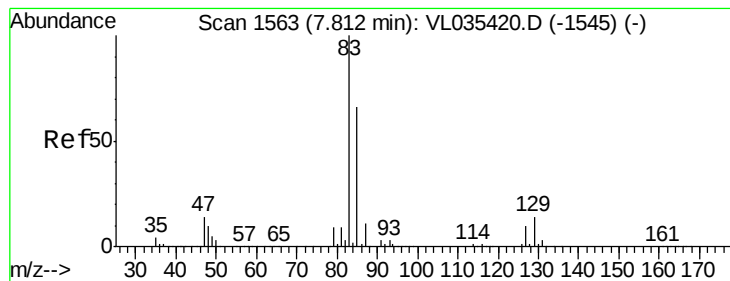


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 11.331 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

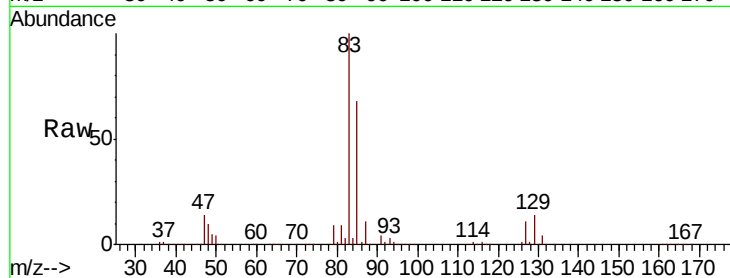
Tot Ion: 83 Resp: 2857081

Ion Ratio Lower Upper

83 100

85 67.8 54.8 82.2

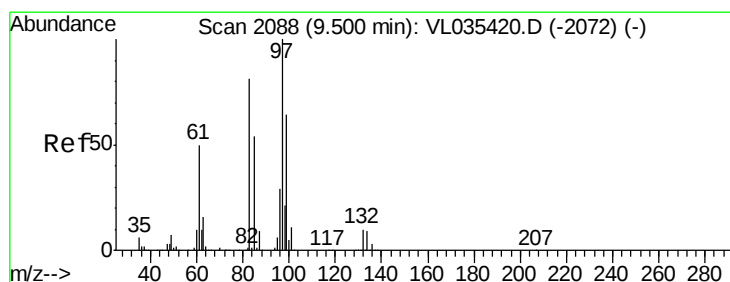
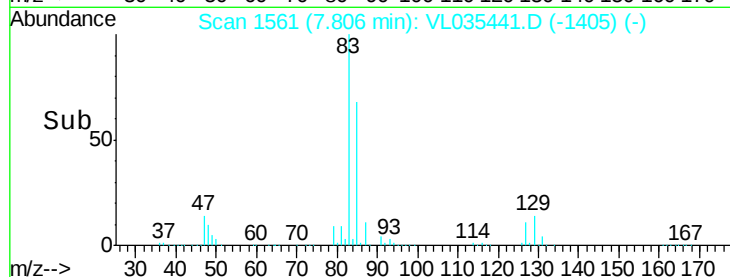
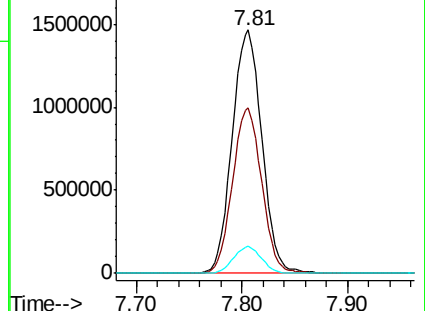
127 11.0 6.1 9.1#



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: 7.384 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Tgt Ion: 97 Resp: 1198538

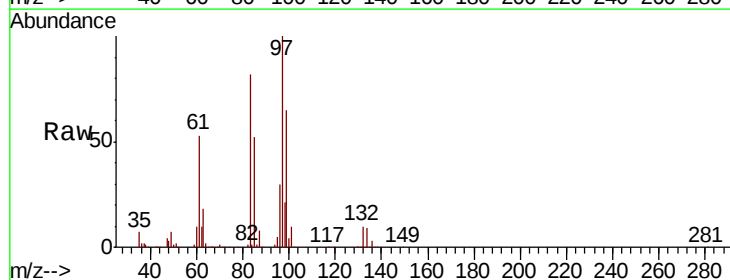
Ion Ratio Lower Upper

97 100

83 82.0 72.1 108.1

85 52.5 46.8 70.2

99 65.1 48.6 73.0

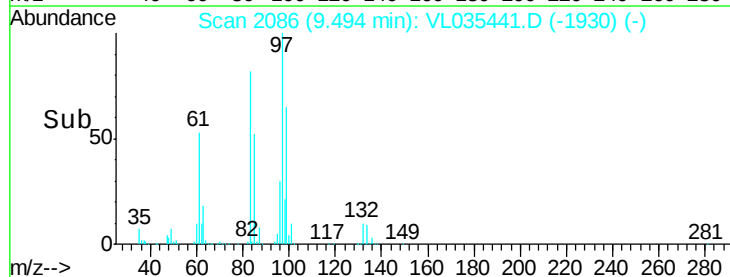
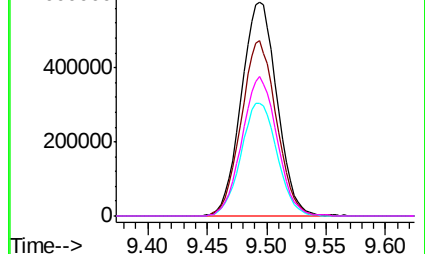


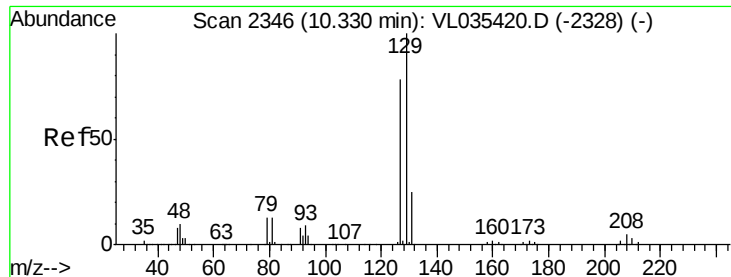
Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 7.952 ppbv

RT: 10.32 min Scan# 2344

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

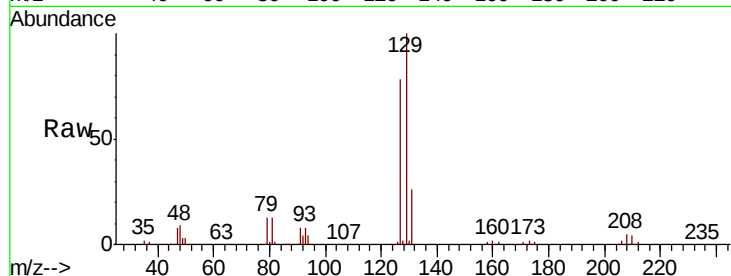
E053-1100DL

Tot Ion:129 Resp: 2165242

Ion Ratio Lower Upper

129 100

127 78.2 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

1200000

1000000

800000

600000

400000

200000

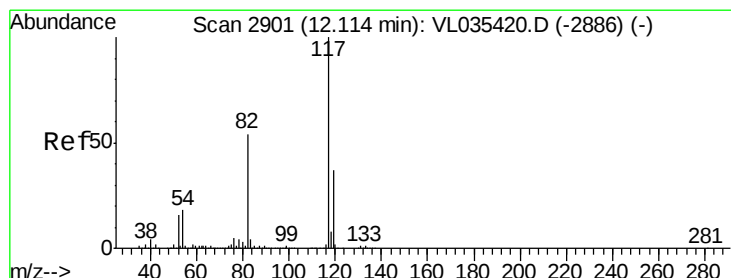
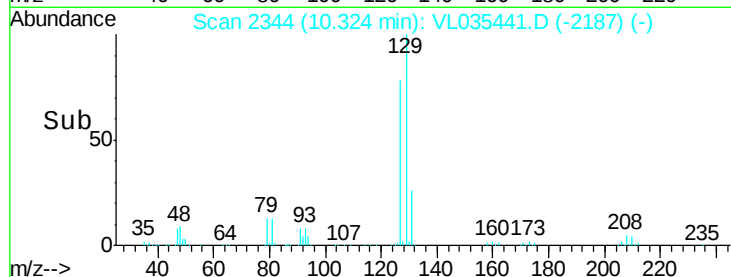
0

10.30

10.32

10.40

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

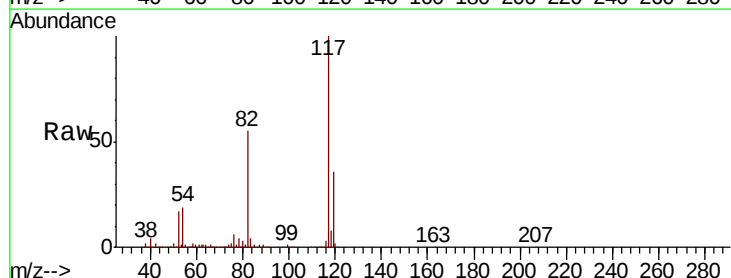
Tgt Ion:117 Resp: 4491988

Ion Ratio Lower Upper

117 100

82 53.1 57.4 86.0#

119 34.8 28.4 42.6



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

2500000

2000000

1500000

1000000

500000

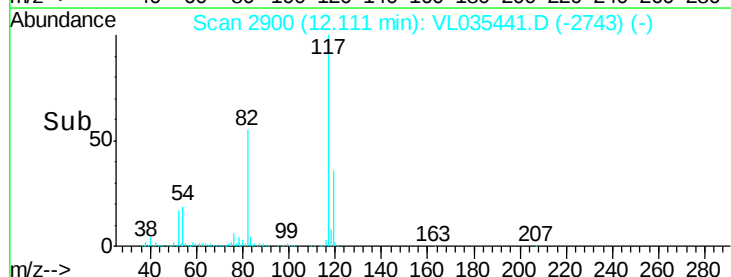
0

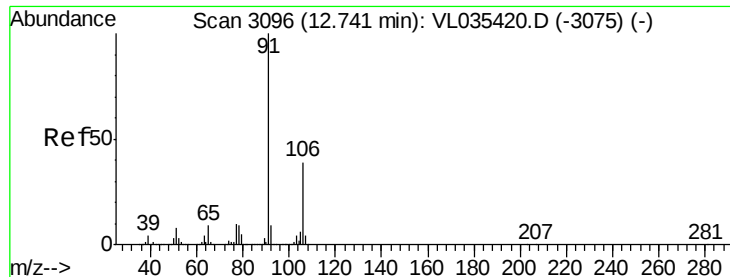
12.00

12.10

12.20

Time-->





#58

Ethyl Benzene

Concen: 5.969 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

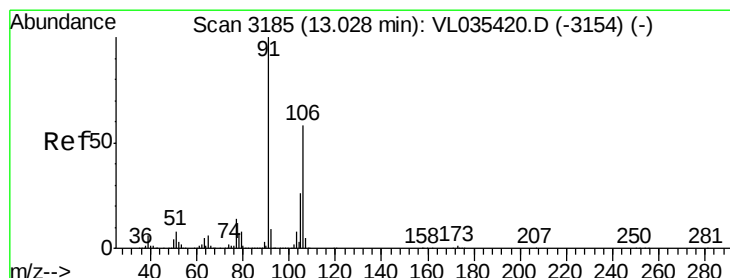
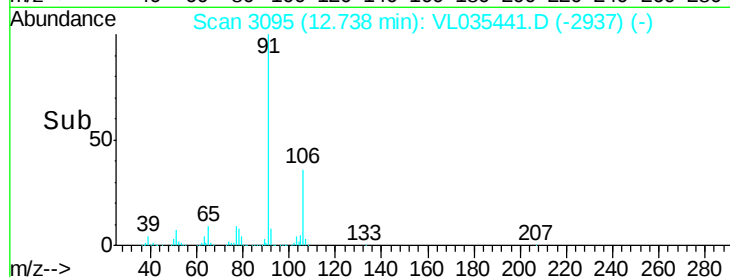
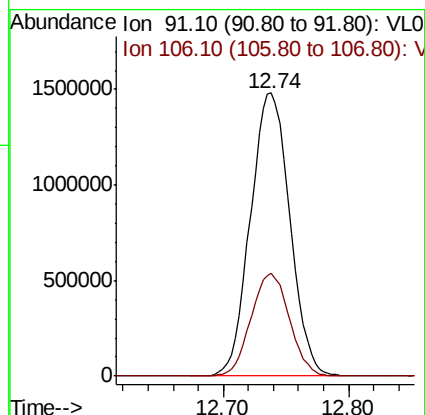
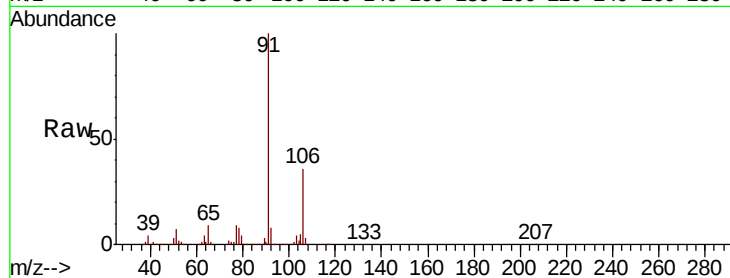
E053-1100DL

Tot Ion: 91 Resp: 3236945

Ion Ratio Lower Upper

91 100

106 36.2 24.1 36.1#



#59

m/p-Xylene

Concen: 7.062 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.28 min

Lab File: VL035441.D

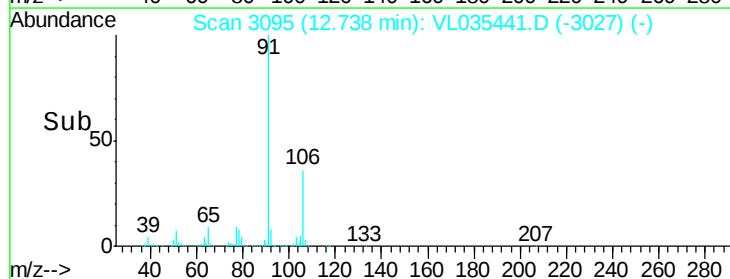
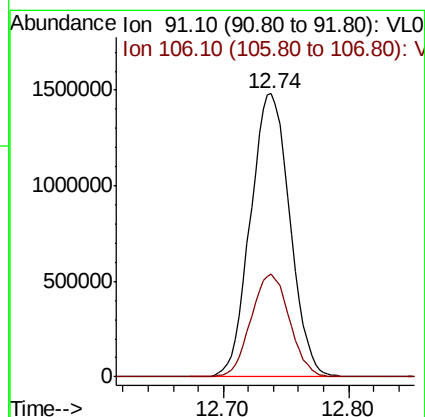
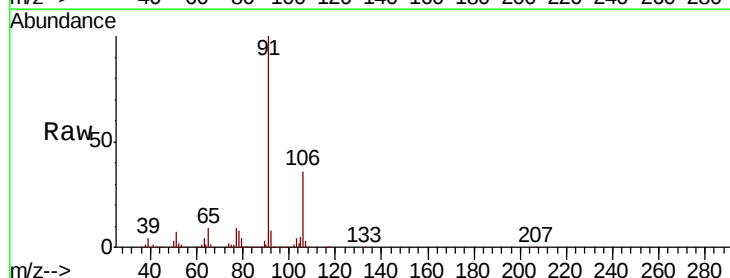
Acq: 18 Aug 2020 12:02

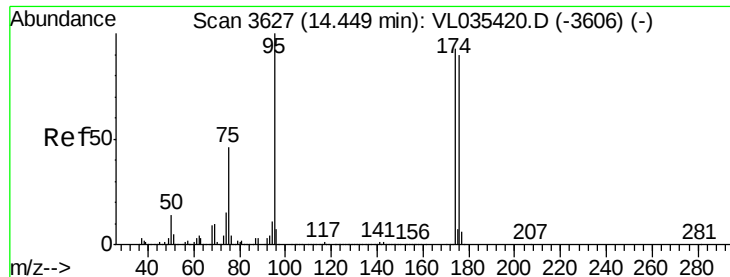
Tgt Ion: 91 Resp: 3236945

Ion Ratio Lower Upper

91 100

106 35.5 34.0 51.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.311 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

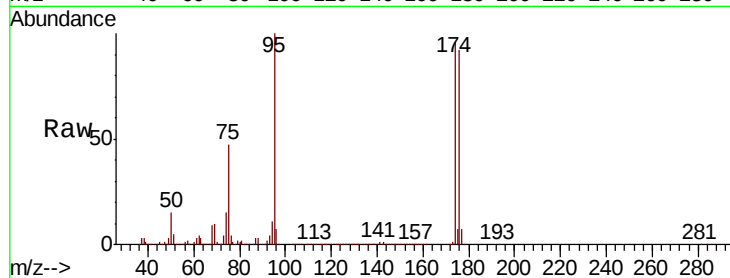
Tot Ion: 95 Resp: 3242701

Ion Ratio Lower Upper

95 100

174 96.6 44.0 66.0#

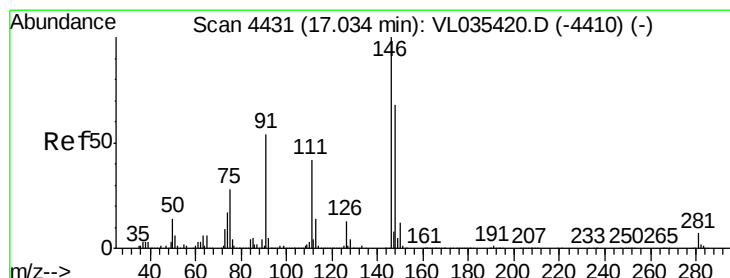
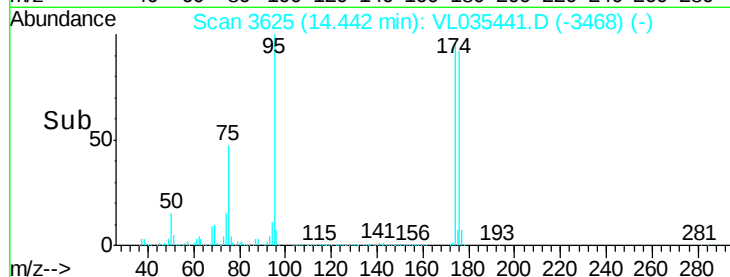
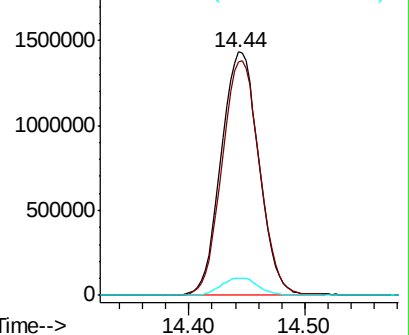
175 7.0 3.2 4.8#



Abundance Ion 95.10 (94.80 to 95.80): VL035420.D (-3606) (-)

Ion 174.00 (173.70 to 174.70): VL035420.D (-3606) (-)

Ion 175.00 (174.70 to 175.70): VL035420.D (-3606) (-)



#75

1,3-Dichlorobenzene

Concen: 9.517 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. 0.15 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

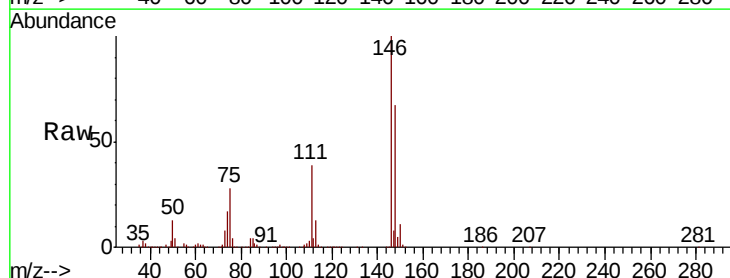
Tgt Ion: 146 Resp: 4344699

Ion Ratio Lower Upper

146 100

111 38.0 25.6 76.8

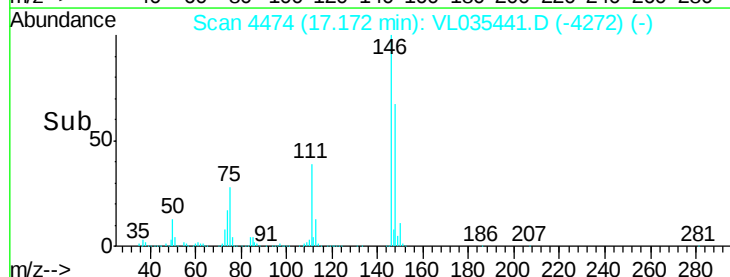
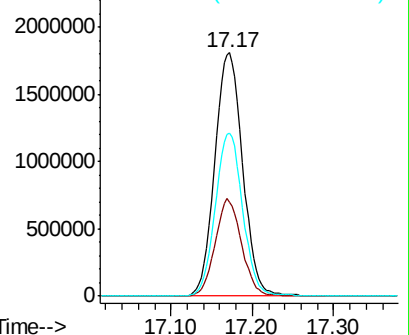
148 66.0 32.3 96.9

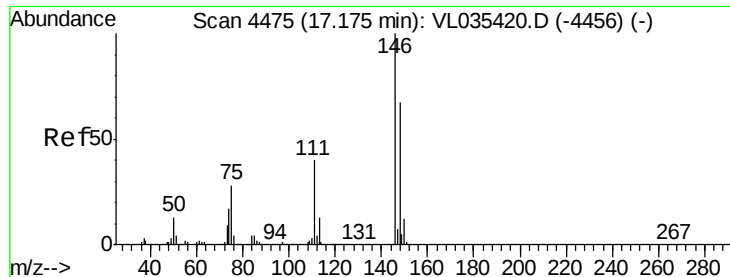


Abundance Ion 146.00 (145.70 to 146.70): VL035420.D (-4410) (-)

Ion 111.10 (110.80 to 111.80): VL035420.D (-4410) (-)

Ion 148.00 (147.70 to 148.70): VL035420.D (-4410) (-)

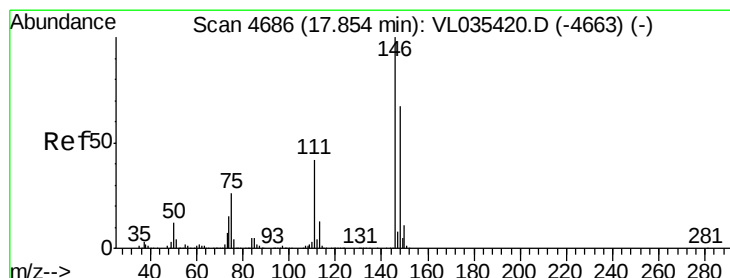
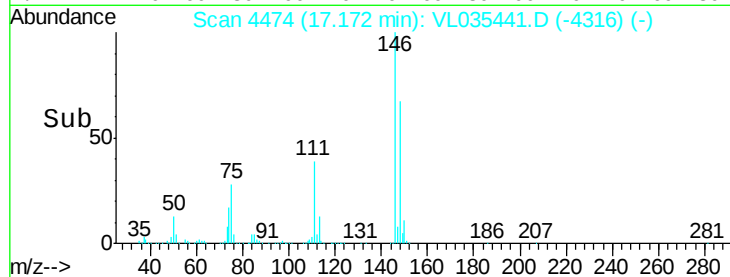
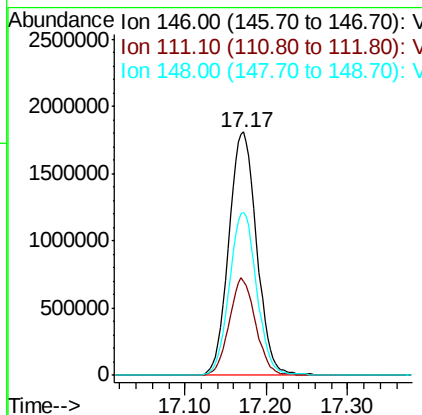
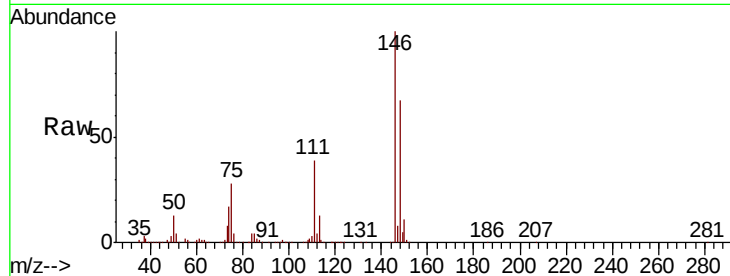




#76
 1,4-Dichlorobenzene
 Concen: 9.657 ppbv
 RT: 17.17 min Scan# 4474
 Delta R.T. 0.01 min
 Lab File: VL035441.D
 Acq: 18 Aug 2020 12:02

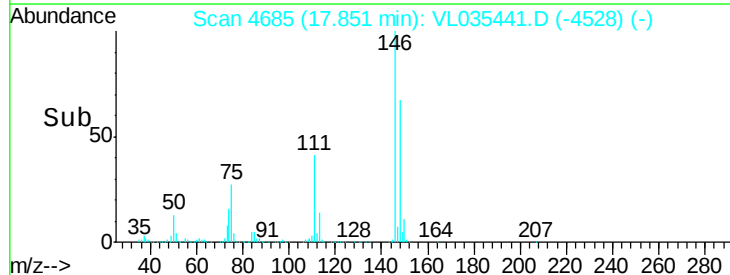
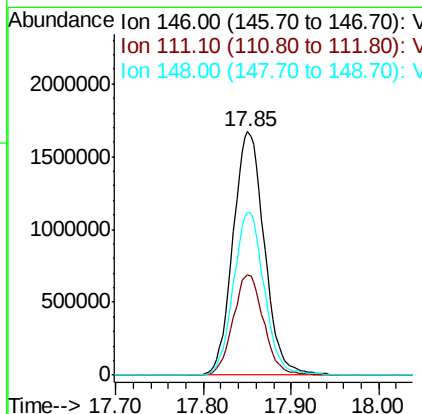
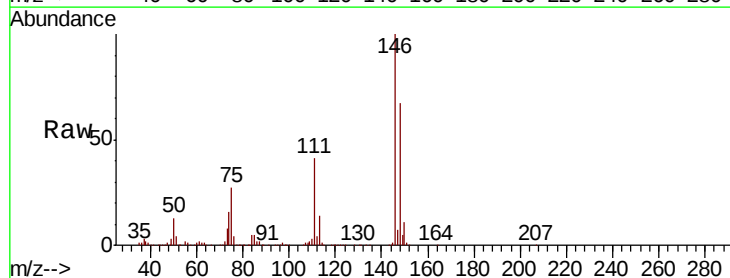
Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

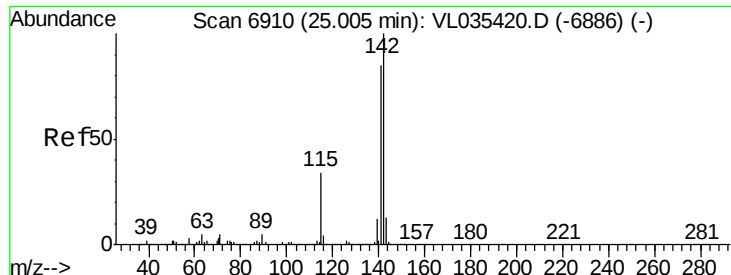
Tot Ion:146 Resp: 4344699
 Ion Ratio Lower Upper
 146 100
 111 38.0 24.8 74.4
 148 66.0 32.1 96.3



#77
 1,2-Dichlorobenzene
 Concen: 9.289 ppbv
 RT: 17.85 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL035441.D
 Acq: 18 Aug 2020 12:02

Tgt Ion:146 Resp: 4153559
 Ion Ratio Lower Upper
 146 100
 111 40.4 26.3 78.9
 148 66.0 32.0 96.0

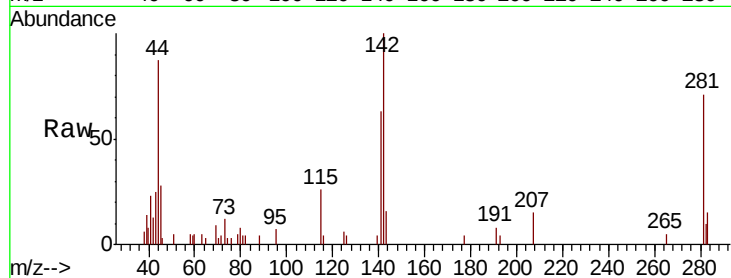




#80
 Naphthalene,2-methyl-
 Concen: 0.032 ppbv
 RT: 25.01 min Scan# 6912
 Delta R.T. 0.01 min
 Lab File: VL035441.D
 Acq: 18 Aug 2020 12:02

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tot Ion:142 Resp: 11170
 Ion Ratio Lower Upper
 142 100
 141 70.3 67.1 100.7
 115 29.8 36.1 54.1#



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

