

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016021.D
 Acq On : 01 May 2020 18:55
 Operator : JC/SP
 Sample : L2469-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ191I-20200429

Quant Time: May 02 07:02:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 17:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	280508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	462927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	446289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234422	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	180702	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
35) Dibromofluoromethane	5.47	113	136663	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
50) Toluene-d8	8.70	98	567763	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	11.12	95	228239	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	

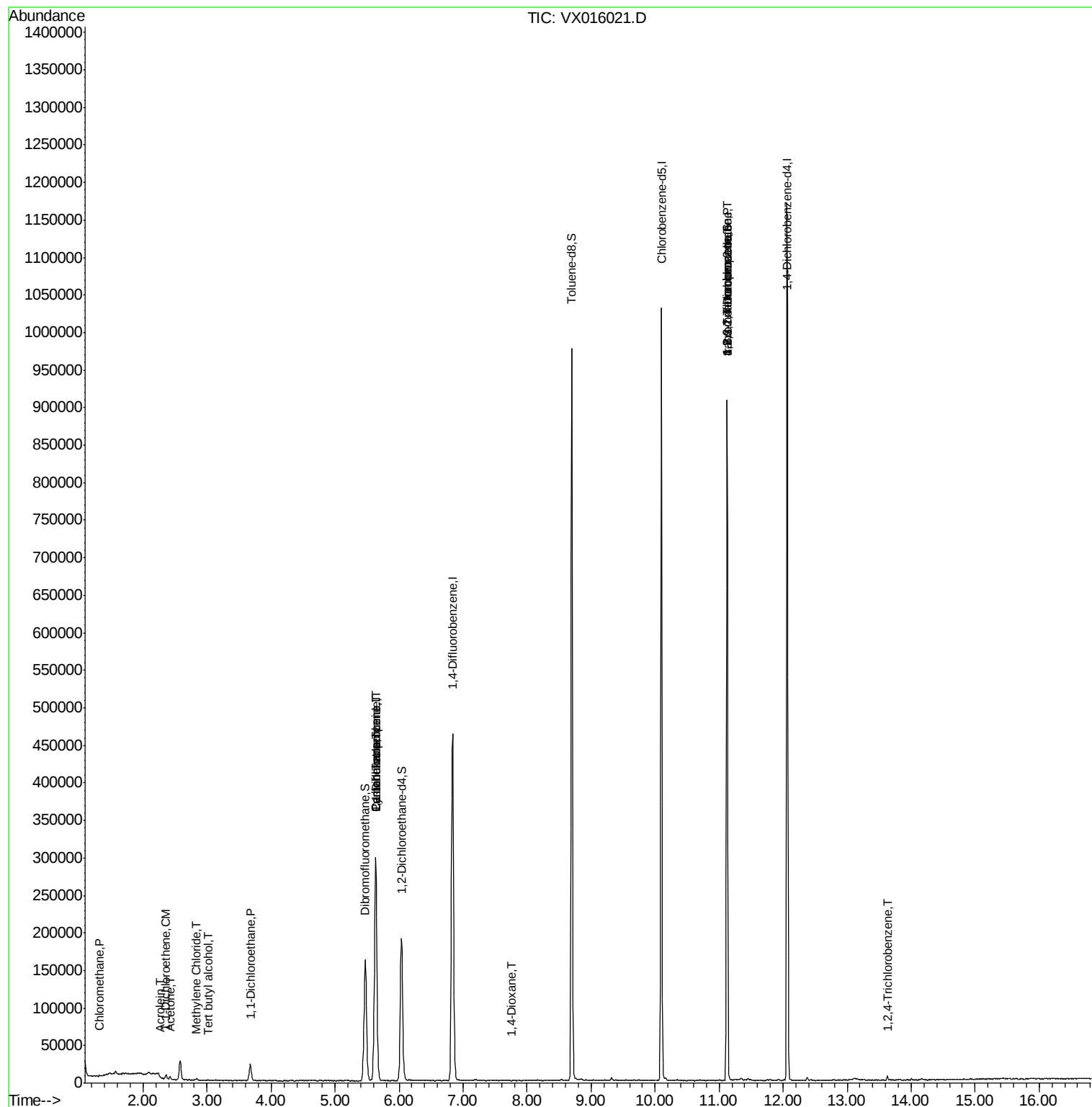
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	742	0.244	ug/l	95
11) Tert butyl alcohol	3.01	59	490	0.550	ug/l #	62
12) 1,1-Dichloroethene	2.36	96	1419	0.529	ug/l	94
13) Acrolein	2.27	56	335	1.497	ug/l #	14
16) Acetone	2.42	43	3315	2.114	ug/l	95
20) Methylene Chloride	2.84	84	824	0.265	ug/l	87
24) 1,1-Dichloroethane	3.67	63	23632	4.459	ug/l	99
31) Cyclohexane	5.64	56	6264	1.328	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	21792	4.943	ug/l #	41
38) Carbon Tetrachloride	5.63	117	27764	5.962	ug/l #	16
49) 1,4-Dioxane	7.75	88	22	0.242	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.12	83	242	3.761	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	120546	24.506	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	120546	57.912	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	1244	0.232	ug/l #	92

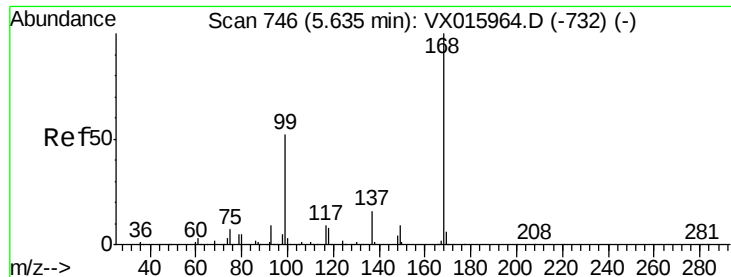
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 28 17:30:11 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

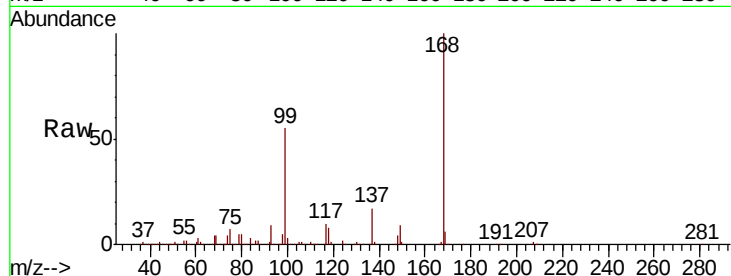
SA-PZ191I-20200429

Tot Ion:168 Resp: 280508

Ion Ratio Lower Upper

168 100

99 54.8 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

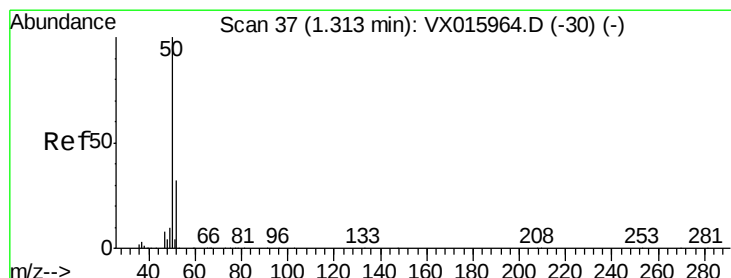
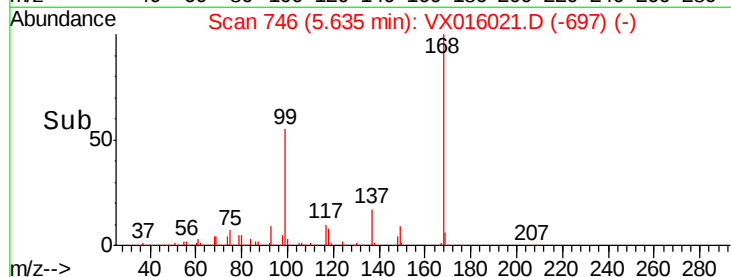
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.244 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016021.D

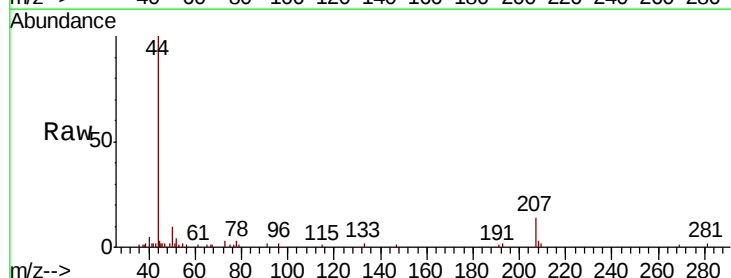
Acq: 01 May 2020 18:55

Tgt Ion: 50 Resp: 742

Ion Ratio Lower Upper

50 100

52 29.0 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

500

400

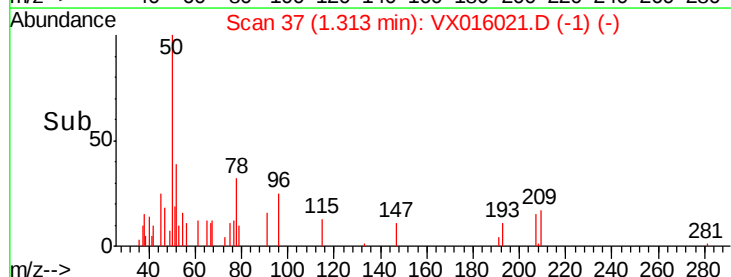
300

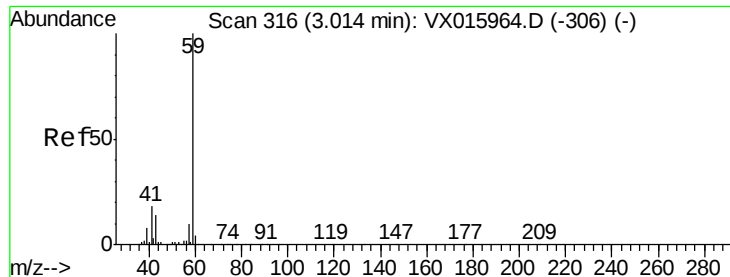
200

100

0

Time-->



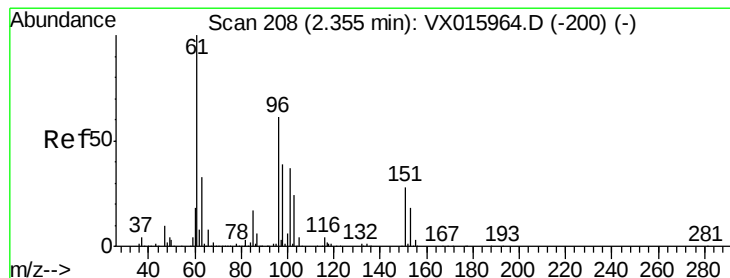
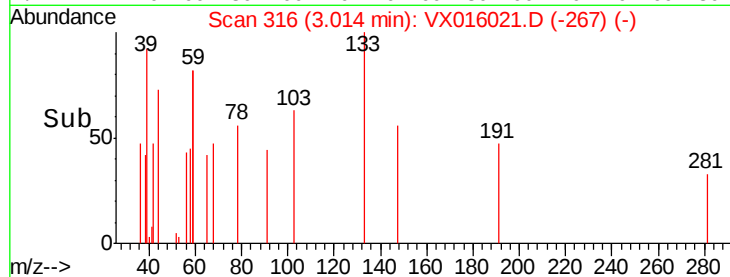
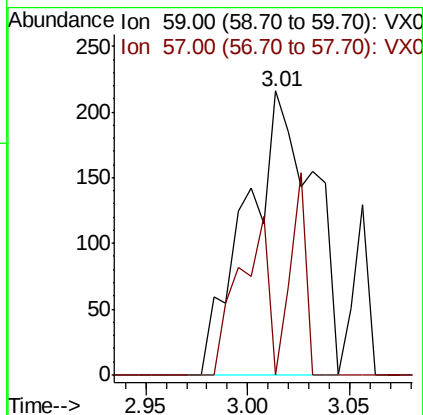
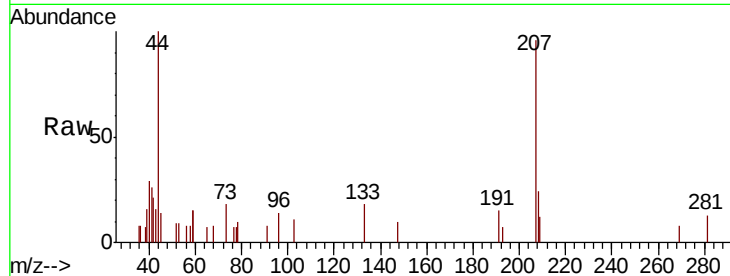


#11

Tert butyl alcohol
 Concen: 0.550 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. 0.00 min
 Lab File: VX016021.D
 Acq: 01 May 2020 18:55

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ191I-20200429

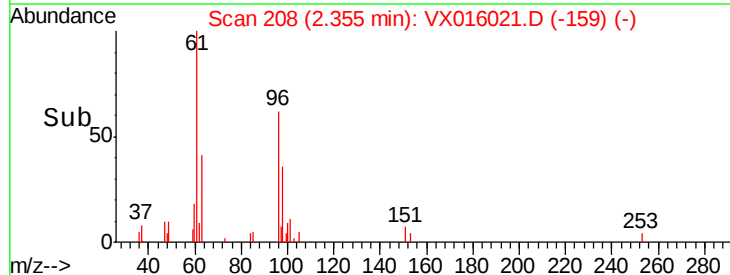
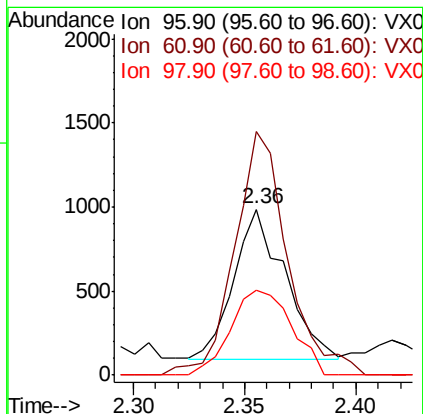
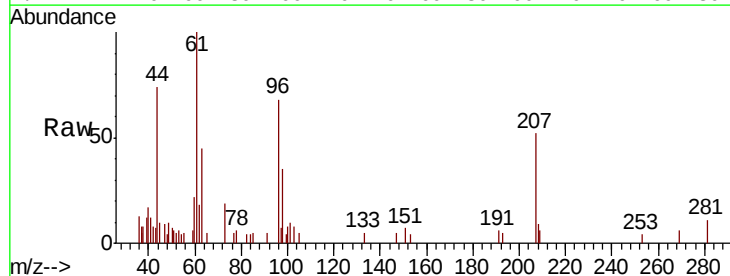
Tot Ion: 59 Resp: 490
 Ion Ratio Lower Upper
 59 100
 57 24.7 8.3 12.5#

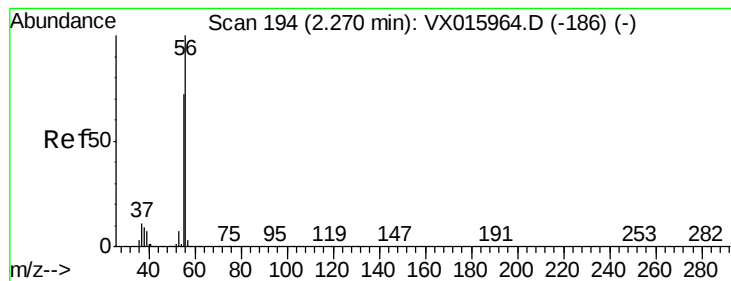


#12

1,1-Dichloroethene
 Concen: 0.529 ug/l
 RT: 2.36 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VX016021.D
 Acq: 01 May 2020 18:55

Tgt Ion: 96 Resp: 1419
 Ion Ratio Lower Upper
 96 100
 61 157.0 131.0 196.4
 98 56.7 50.7 76.1





#13

Acrolein

Concen: 1.497 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

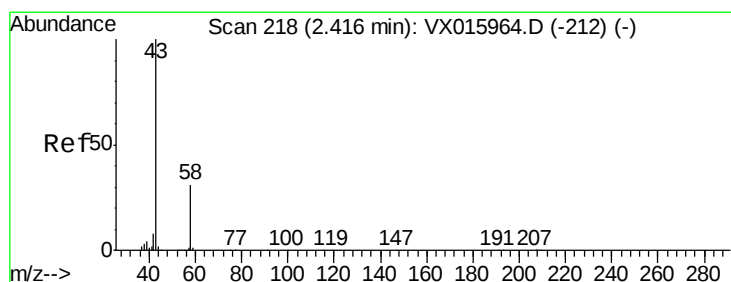
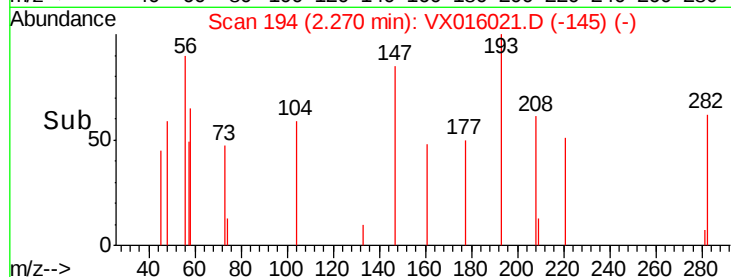
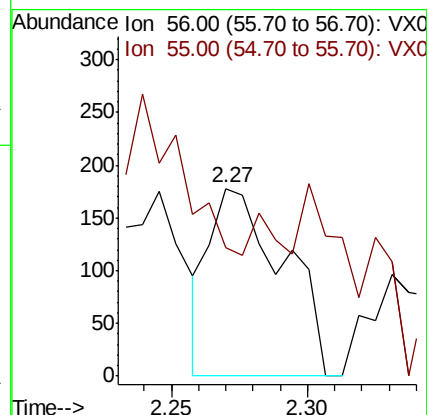
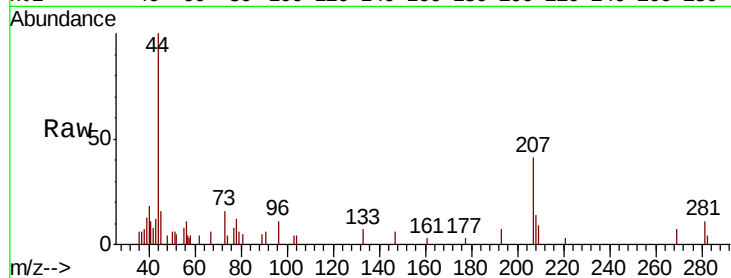
SA-PZ191I-20200429

Tot Ion: 56 Resp: 335

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 2.114 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016021.D

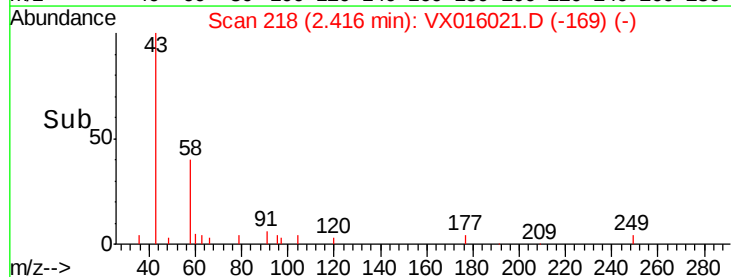
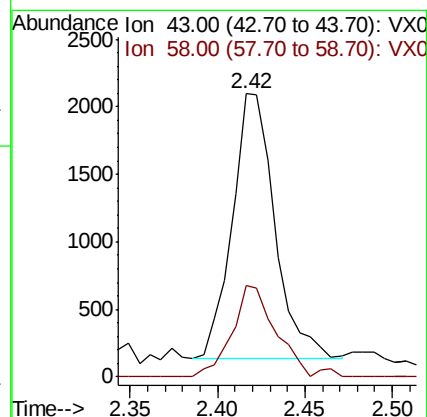
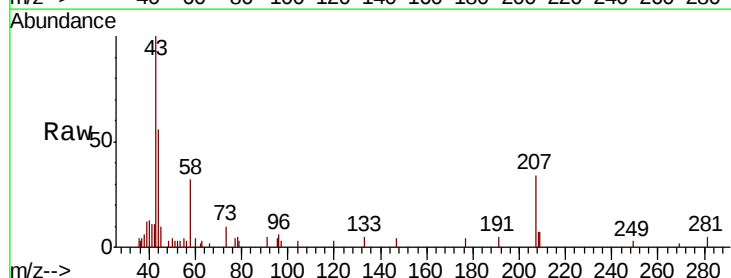
Acq: 01 May 2020 18:55

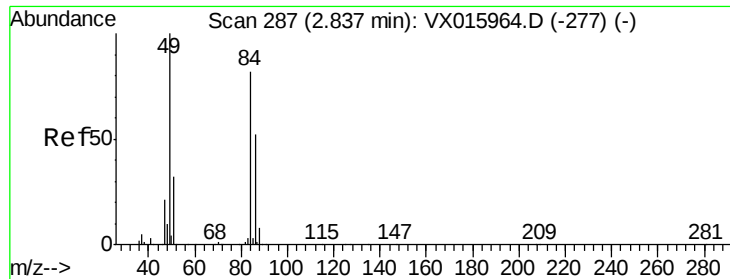
Tgt Ion: 43 Resp: 3315

Ion Ratio Lower Upper

43 100

58 34.4 25.1 37.7

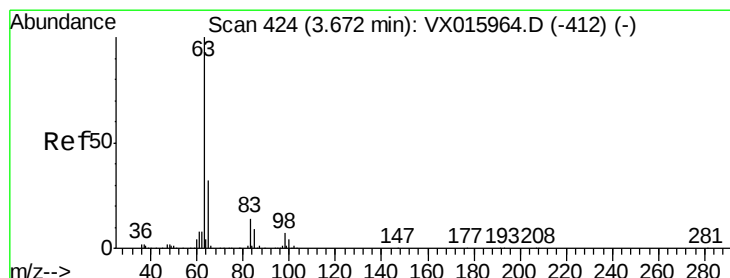
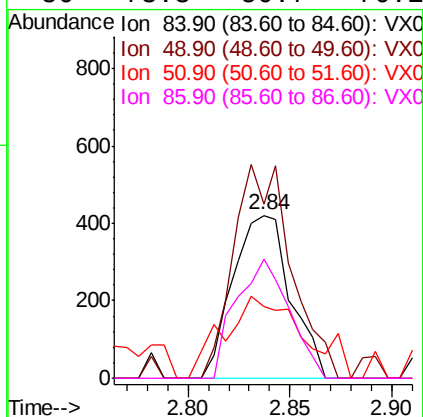
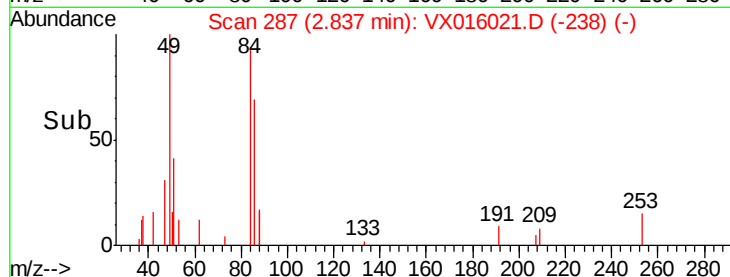
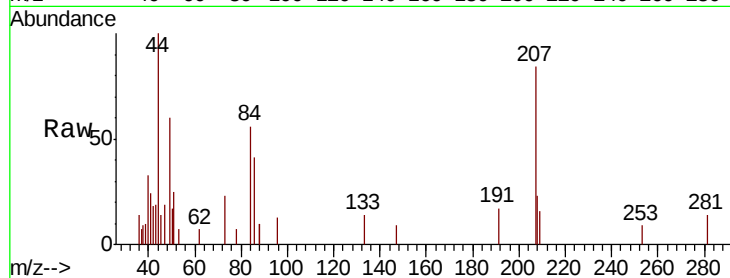




#20
Methvlene Chloride
Concen: 0.265 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016021.D
Acq: 01 May 2020 18:55

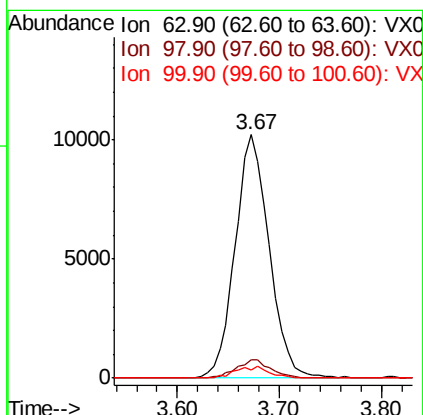
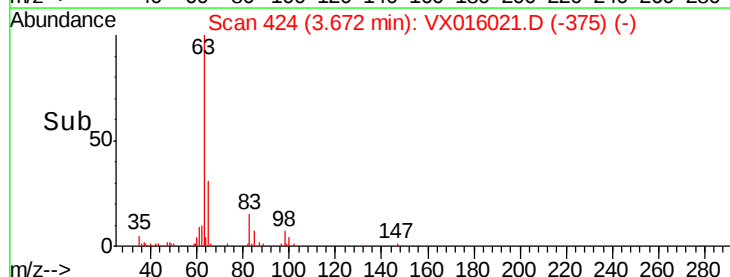
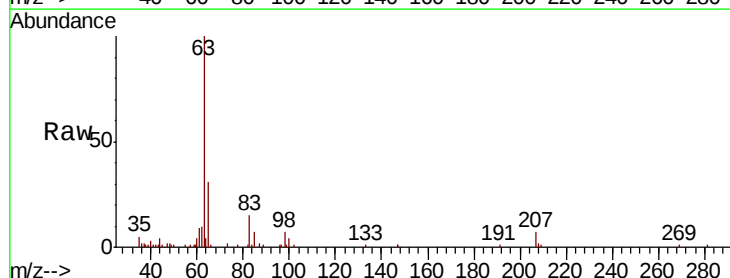
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ191I-20200429

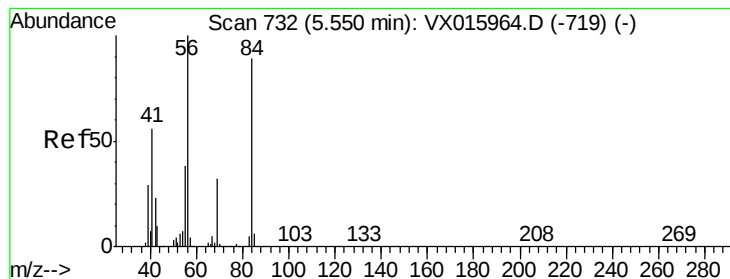
Tot Ion:	84	Resp:	824
Ion	Ratio	Lower	Upper
84	100		
49	106.7	97.9	146.9
51	44.0	31.2	46.8
86	73.3	50.7	76.1



#24
1,1-Dichloroethane
Concen: 4.459 ug/l
RT: 3.67 min Scan# 424
Delta R.T. 0.00 min
Lab File: VX016021.D
Acq: 01 May 2020 18:55

Tgt Ion:	63	Resp:	23632
Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	3.5	2.2	6.6





#31

Cyclohexane

Concen: 1.328 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20200429

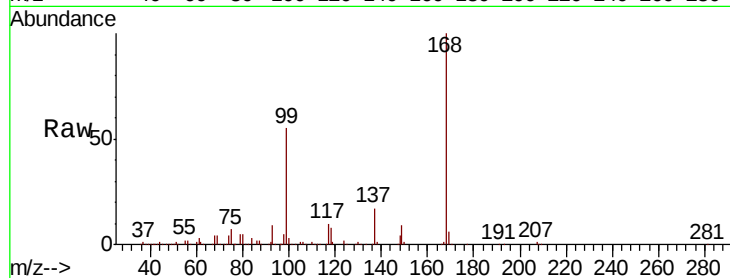
Tot Ion: 56 Resp: 6264

Ion Ratio Lower Upper

56 100

69 178.1 25.4 38.2#

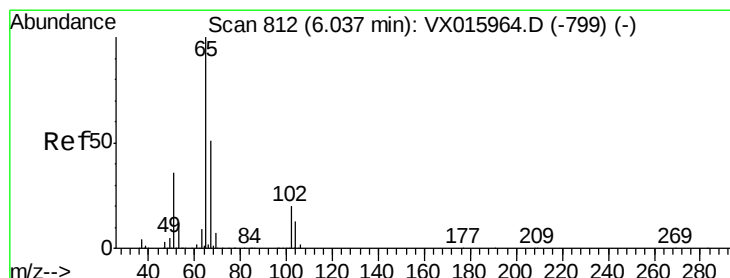
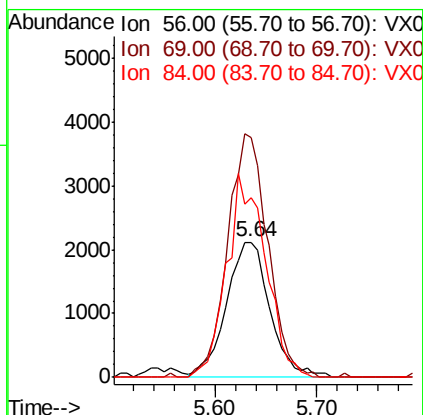
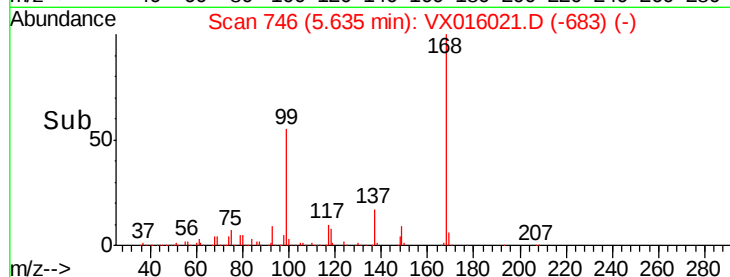
84 132.8 71.0 106.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.270 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016021.D

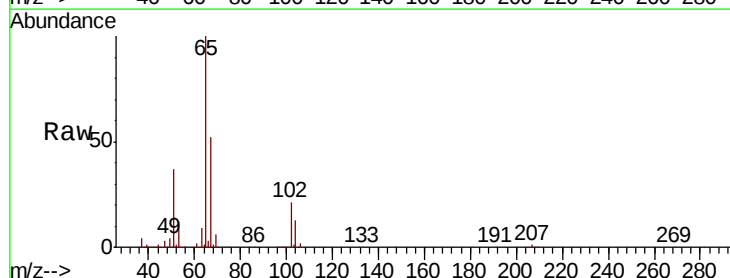
Acq: 01 May 2020 18:55

Tgt Ion: 65 Resp: 180702

Ion Ratio Lower Upper

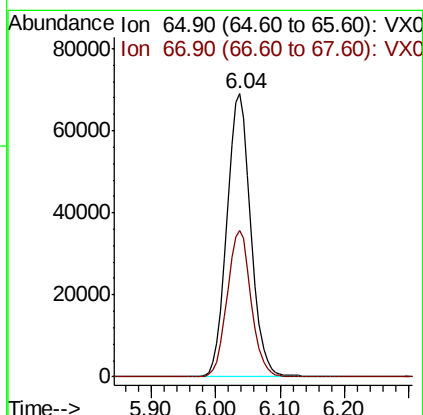
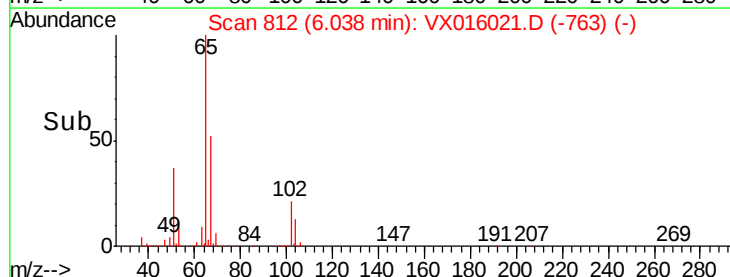
65 100

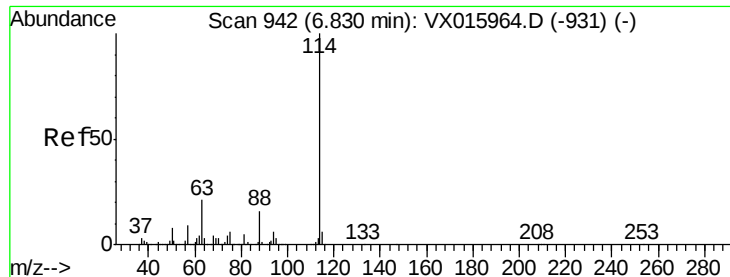
67 51.7 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

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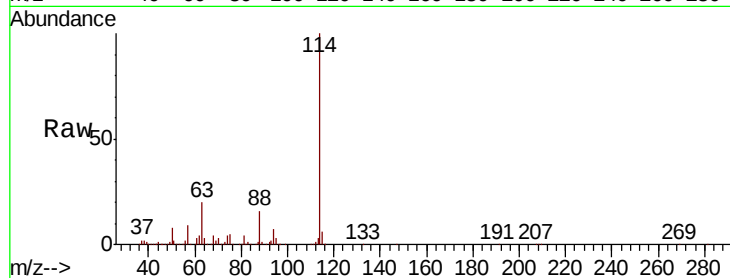
Tot Ion:114 Resp: 462927

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.2

88 15.6 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

100000

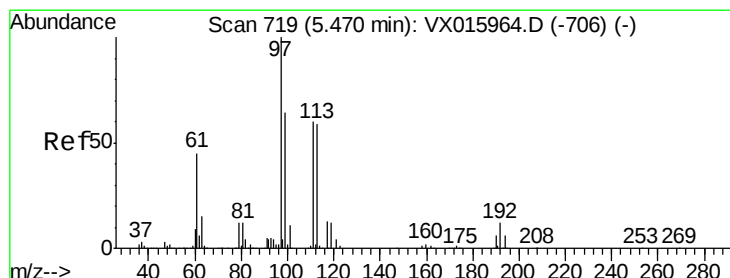
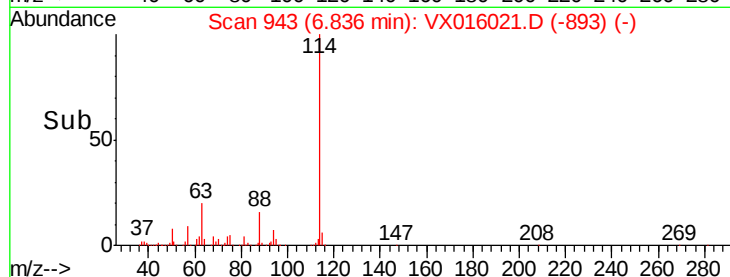
50000

0

6.84

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 47.325 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

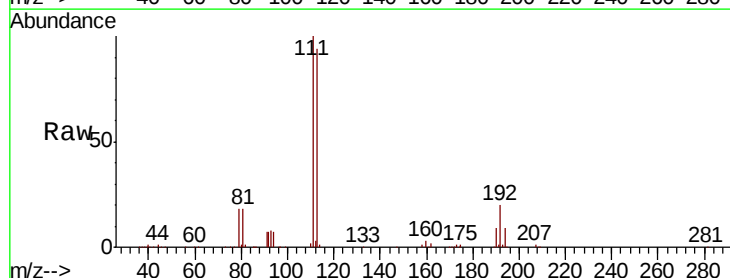
Tgt Ion:113 Resp: 136663

Ion Ratio Lower Upper

113 100

111 103.4 81.8 122.8

192 21.0 16.8 25.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

60000

40000

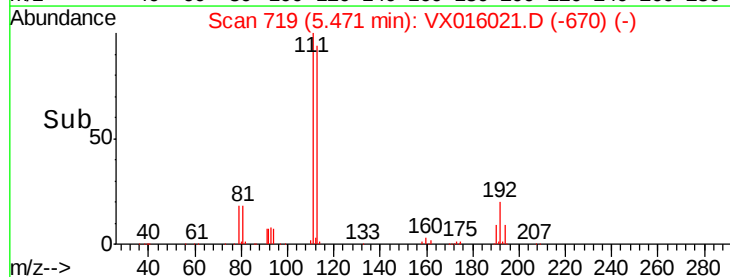
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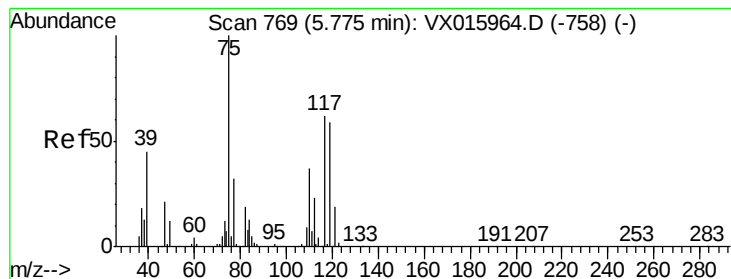
0

5.47

5.30 5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.14 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

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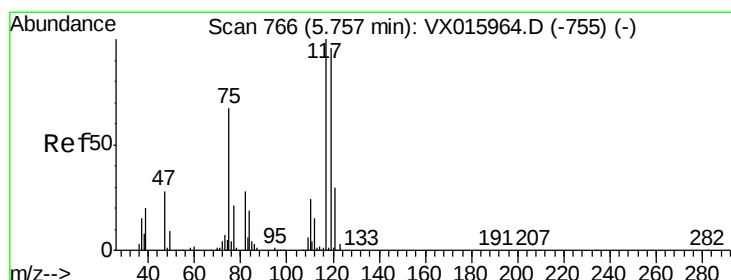
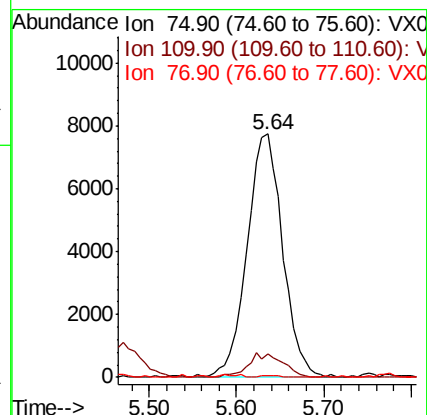
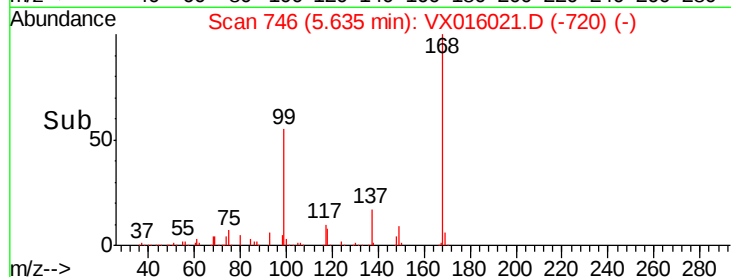
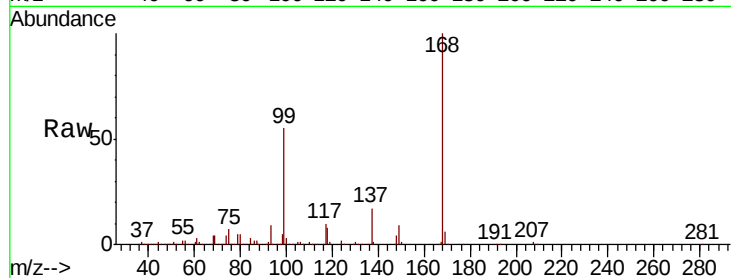
Tot Ion: 75 Resp: 21792

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.7#

77 0.4 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.962 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

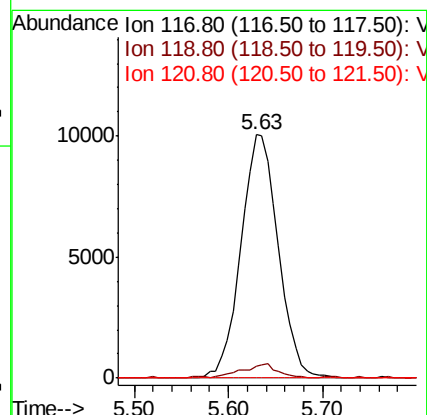
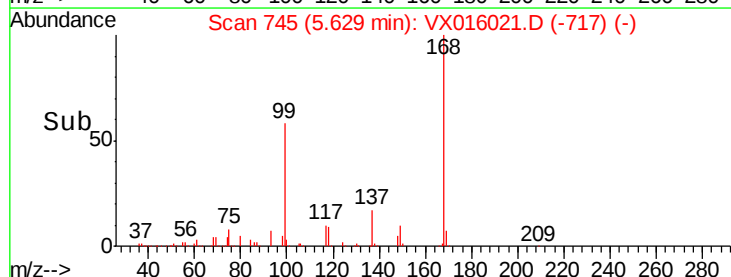
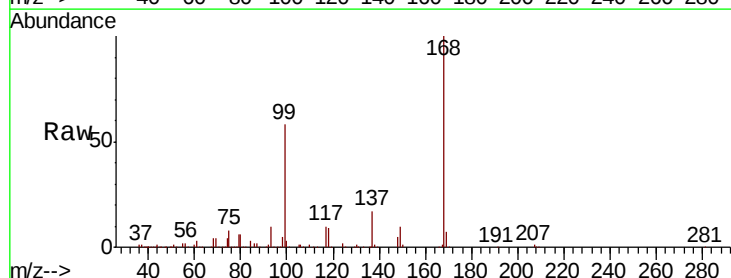
Tgt Ion: 117 Resp: 27764

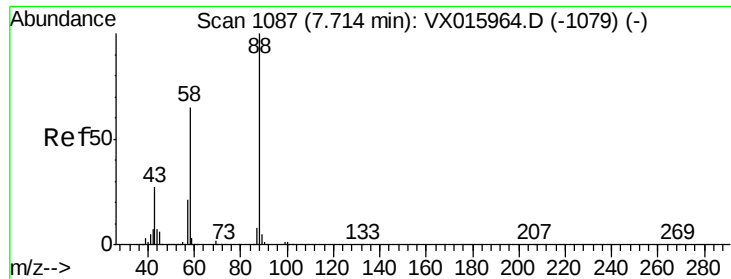
Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.4#

121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 0.242 ug/l

RT: 7.75 min Scan# 1093

Delta R.T. 0.04 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20200429

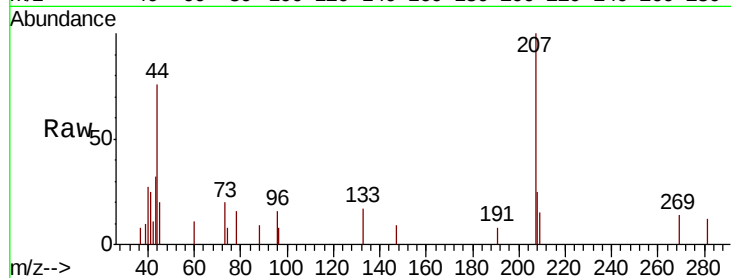
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 522.7 26.6 39.8#

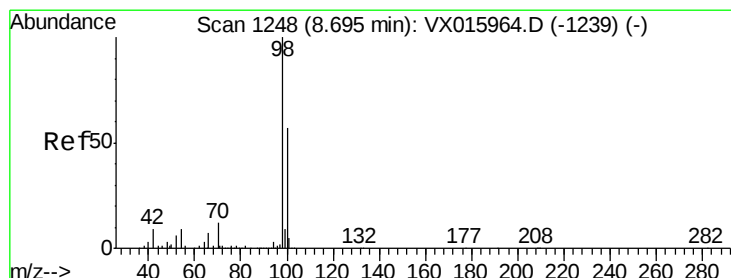
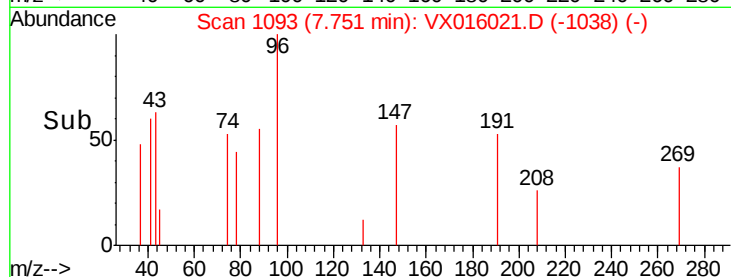
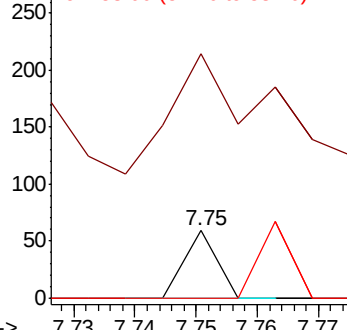
58 113.6 54.8 82.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 52.585 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016021.D

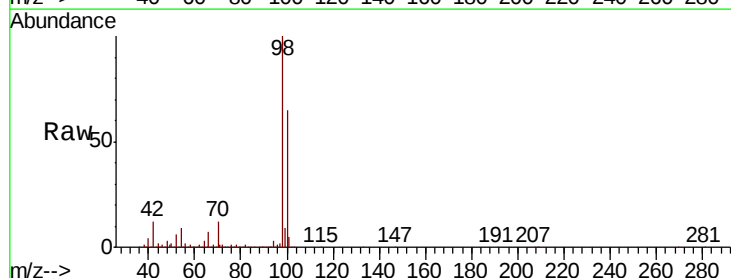
Acq: 01 May 2020 18:55

Tgt Ion: 98 Resp: 567763

Ion Ratio Lower Upper

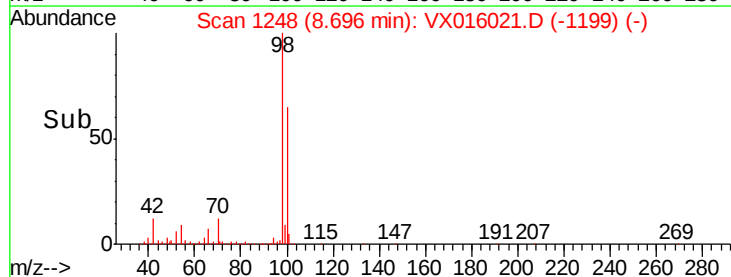
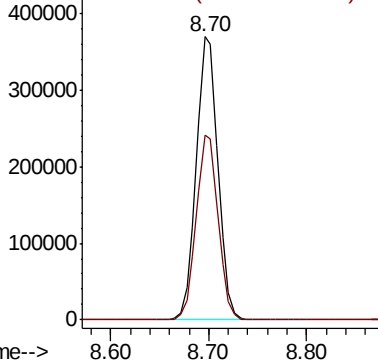
98 100

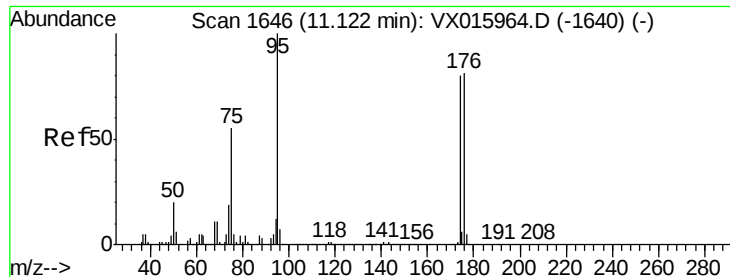
100 65.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 53.896 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20200429

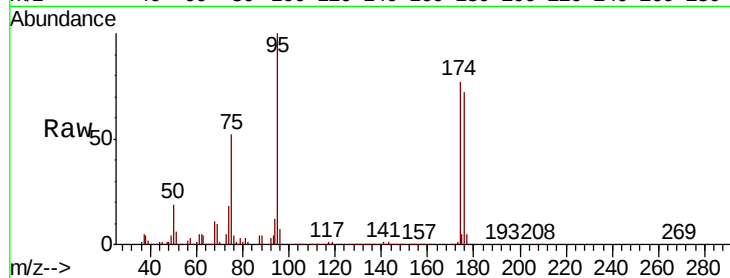
Tot Ion: 95 Resp: 228239

Ion Ratio Lower Upper

95 100

174 79.7 0.0 165.0

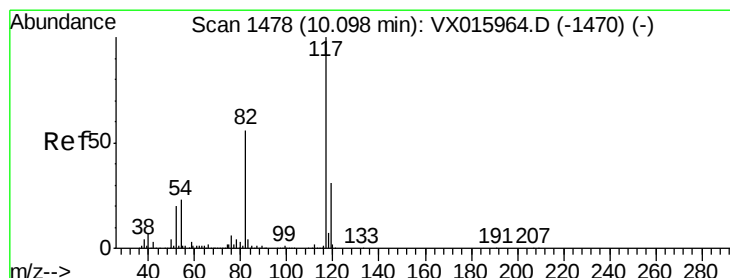
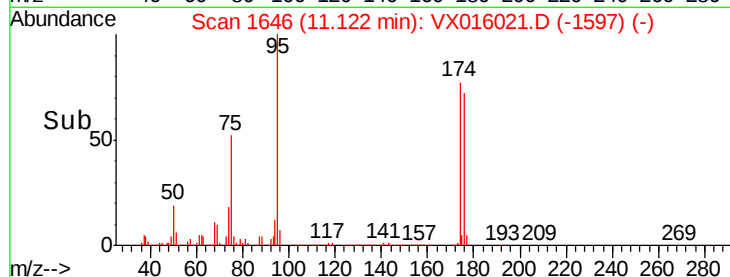
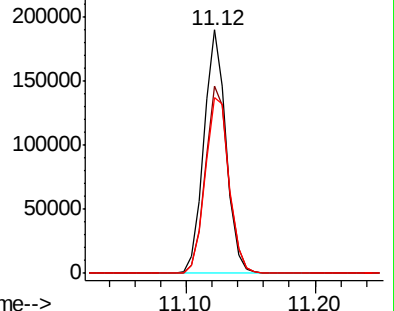
176 78.0 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): VX015964.D (-1640) (-)

Ion 173.80 (173.50 to 174.50): VX015964.D (-1640) (-)

Ion 175.80 (175.50 to 176.50): VX015964.D (-1640) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

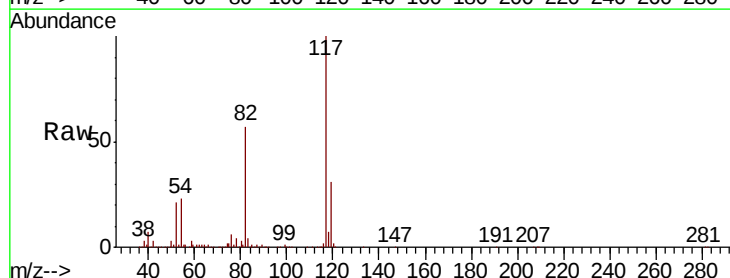
Tgt Ion: 117 Resp: 446289

Ion Ratio Lower Upper

117 100

82 56.6 44.5 66.7

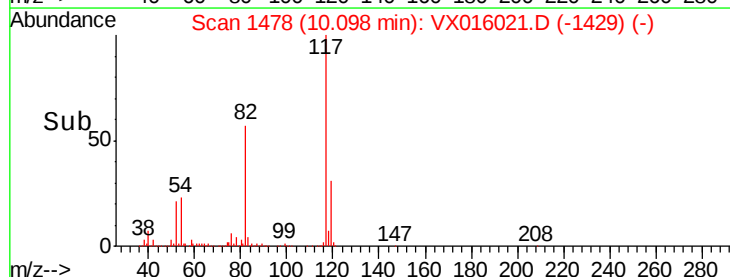
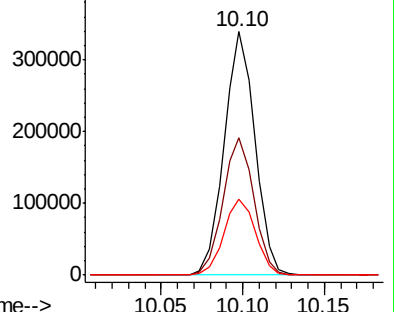
119 31.3 25.0 37.6

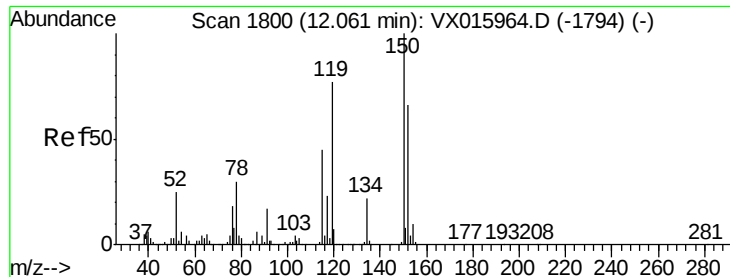


Abundance Ion 116.90 (116.60 to 117.60): VX015964.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX015964.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX015964.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20200429

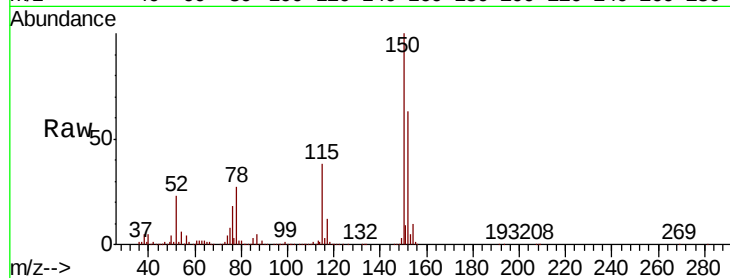
Tot Ion:152 Resp: 234422

Ion Ratio Lower Upper

152 100

115 58.5 40.9 122.7

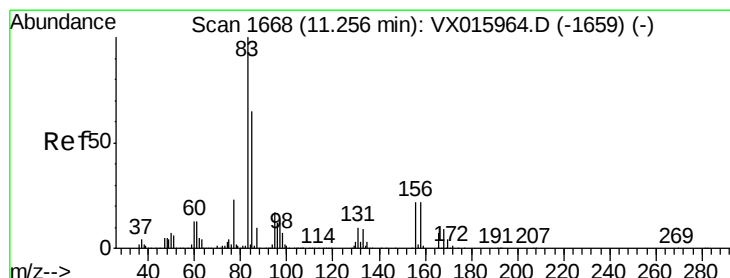
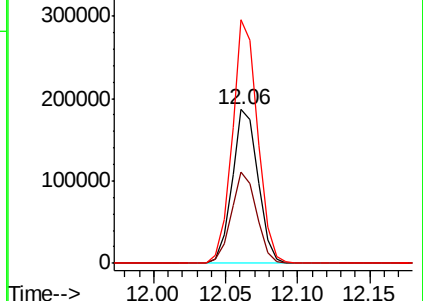
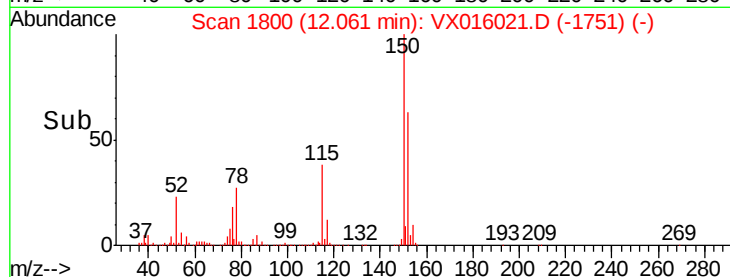
150 155.0 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 3.761 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

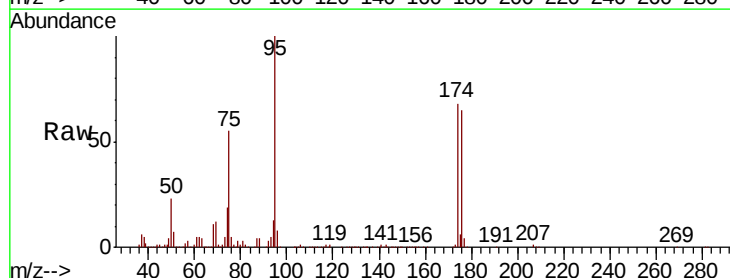
Tgt Ion: 83 Resp: 242

Ion Ratio Lower Upper

83 100

131 158.7 5.1 15.4#

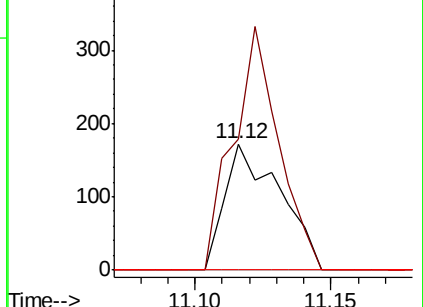
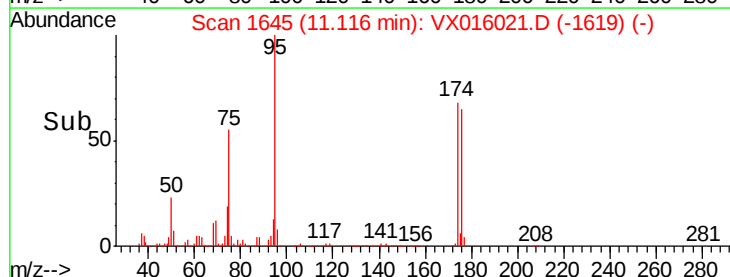
85 0.0 32.2 96.6#

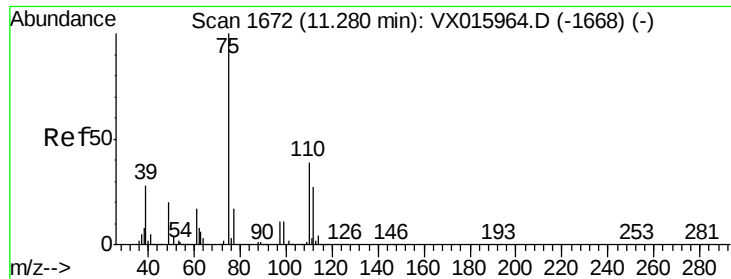


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 24.506 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

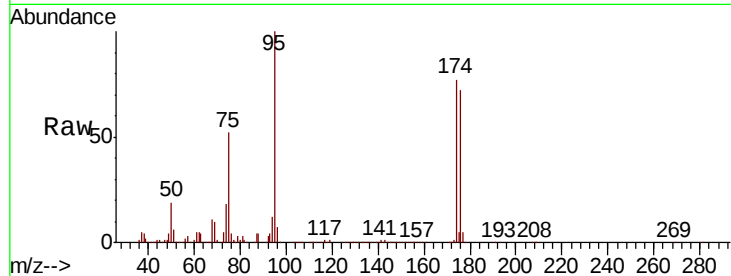
SA-PZ191I-20200429

Tot Ion: 75 Resp: 120546

Ion Ratio Lower Upper

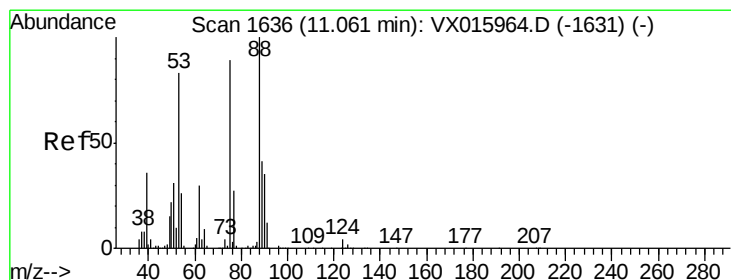
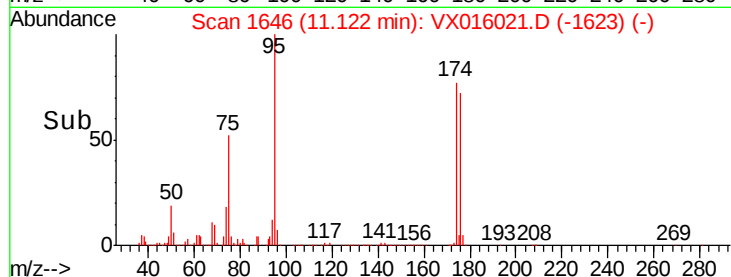
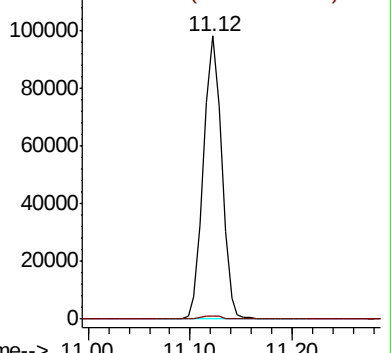
75 100

77 1.3 21.6 65.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.912 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

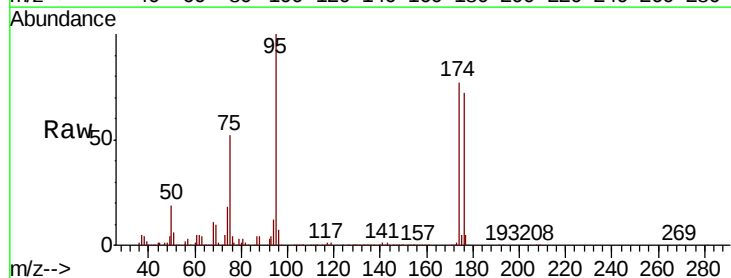
Tgt Ion: 75 Resp: 120546

Ion Ratio Lower Upper

75 100

53 0.1 78.3 117.5#

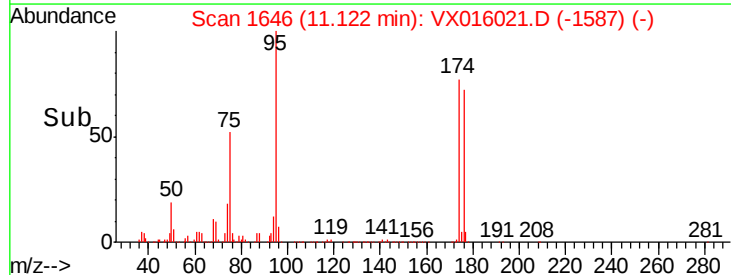
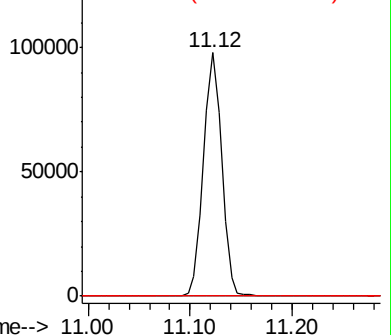
89 0.0 37.2 55.8#

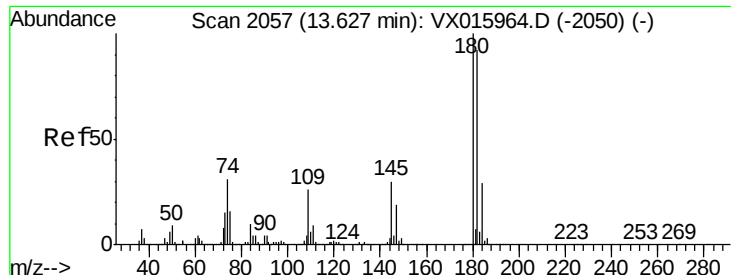


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.232 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016021.D

Acq: 01 May 2020 18:55

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20200429

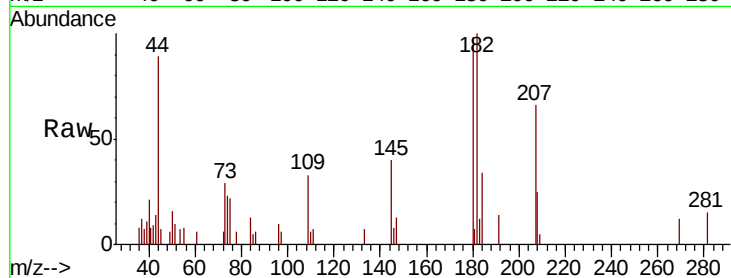
Tot Ion:180 Resp: 1244

Ion Ratio Lower Upper

180 100

182 93.7 46.9 140.6

145 46.2 14.7 44.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

