

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061720\
 Data File : VX016818.D
 Acq On : 17 Jun 2020 15:52
 Operator : JC/SP
 Sample : L2993-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z1-TB6-200610

Quant Time: Jun 18 00:44:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061520W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 16 02:02:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	264709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	422146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	431099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	246304	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	146193	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	5.47	113	125848	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.70	98	516870	53.82	ug/l	0.00
Spiked Amount			Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.12	95	208388	56.73	ug/l	0.00
Spiked Amount			Recovery	=	113.46%	

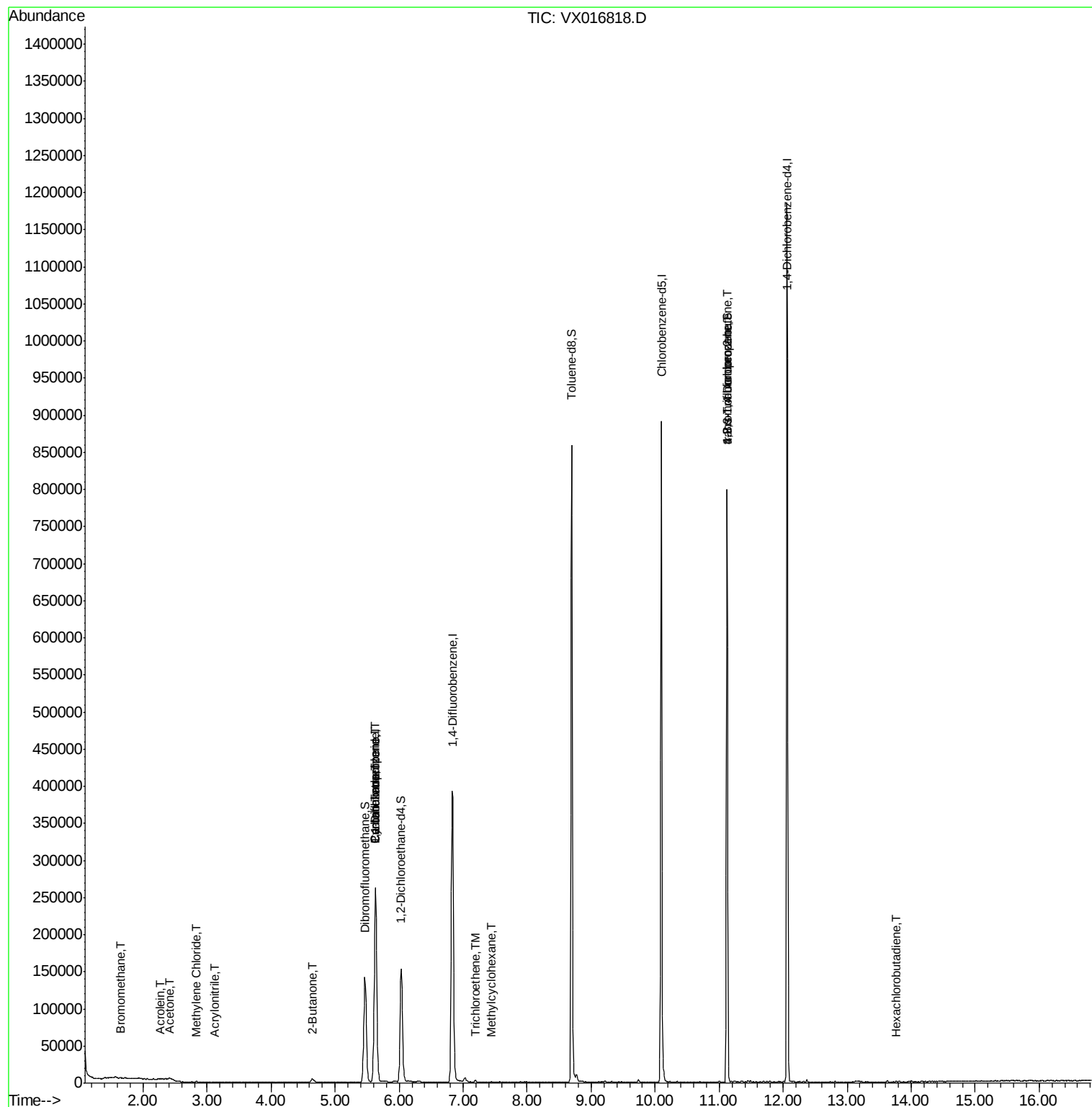
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	440	0.230	ug/l	92
13) Acrolein	2.26	56	592	4.147	ug/l #	61
15) Acrylonitrile	3.12	53	331	0.218	ug/l #	85
16) Acetone	2.41	43	1230	0.911	ug/l #	88
20) Methylene Chloride	2.83	84	600	0.206	ug/l #	90
25) 2-Butanone	4.65	43	473	0.232	ug/l #	44
31) Cyclohexane	5.62	56	4542	1.865	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17504	4.692	ug/l #	50
38) Carbon Tetrachloride	5.63	117	24598	5.806	ug/l #	17
39) Methylcyclohexane	7.44	83	169	0.991	ug/l #	74
44) Trichloroethene	7.18	130	913	0.260	ug/l	69
76) 1,2,3-Trichloropropane	11.12	75	98658	19.047	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	98658	47.951	ug/l #	13
94) Hexachlorobutadiene	13.76	225	307	0.542	ug/l	82

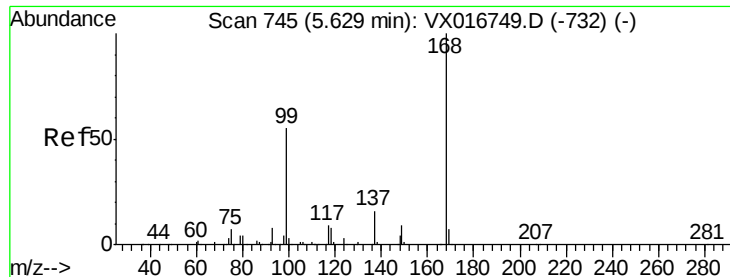
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

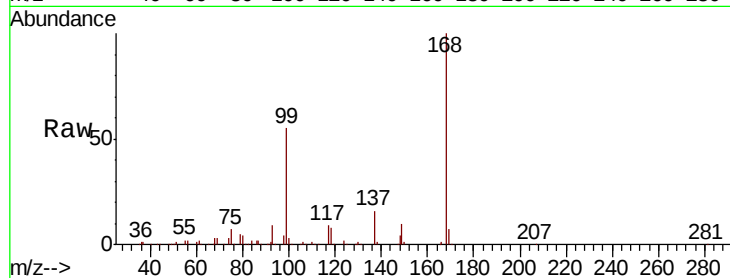
Z1-TB6-200610

Tot Ion:168 Resp: 264709

Ion Ratio Lower Upper

168 100

99 54.7 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

40000

20000

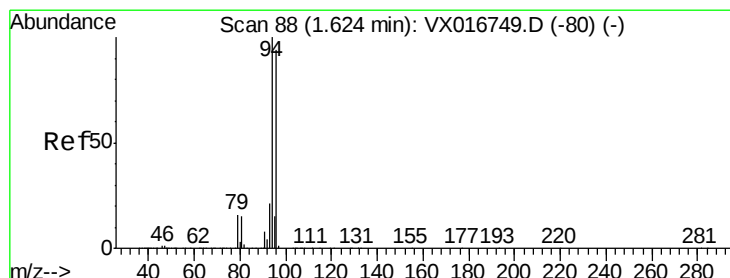
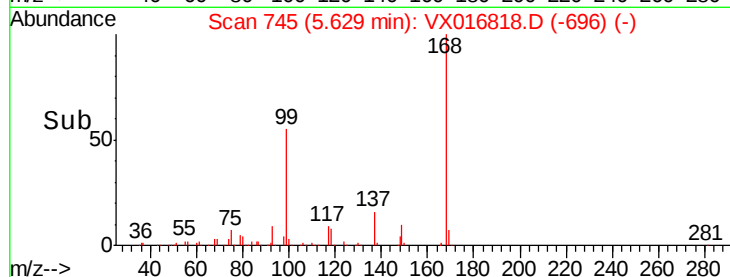
0

Time-->

5.50

5.60

5.70



#5

Bromomethane

Concen: 0.230 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016818.D

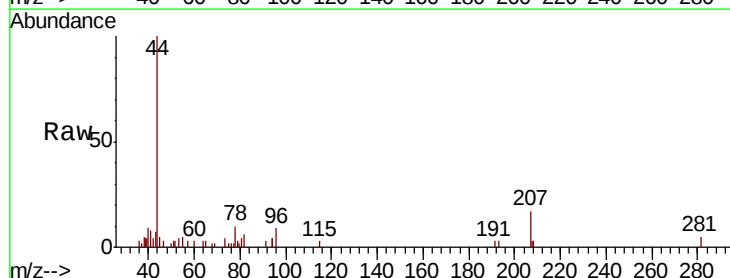
Acq: 17 Jun 2020 15:52

Tgt Ion: 94 Resp: 440

Ion Ratio Lower Upper

94 100

96 86.4 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

200

100

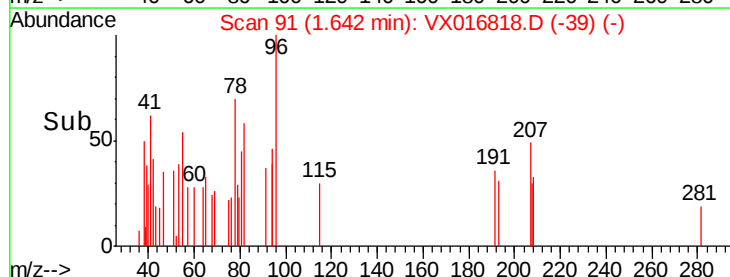
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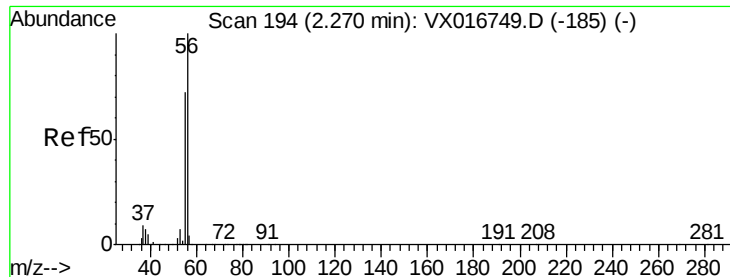
Time-->

1.60

1.65

1.70





#13

Acrolein

Concen: 4.147 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

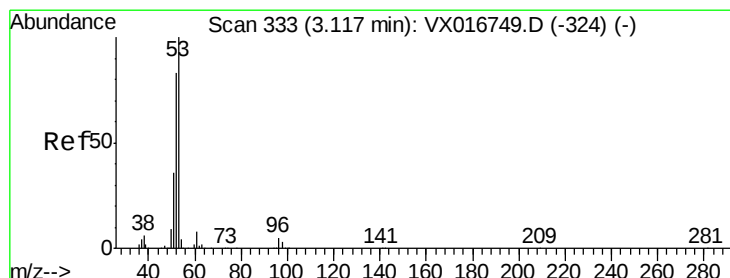
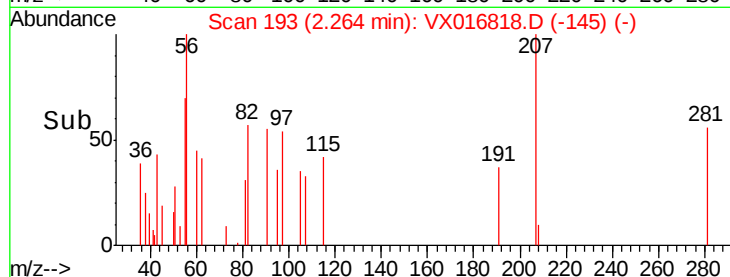
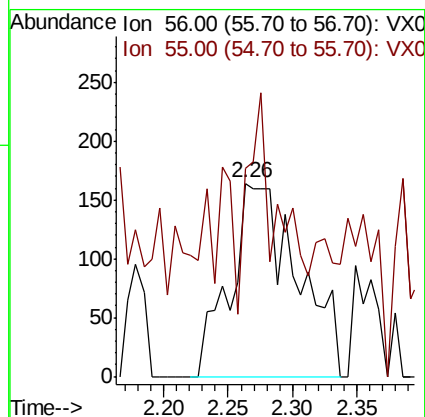
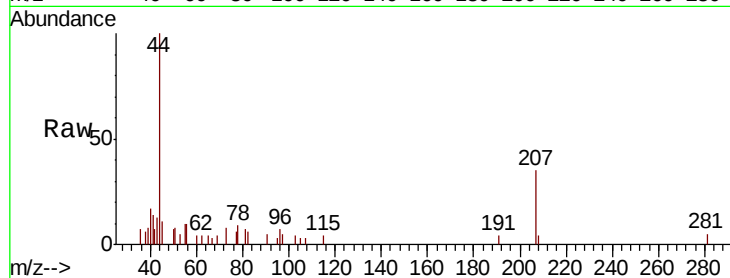
Z1-TB6-200610

Tot Ion: 56 Resp: 592

Ion Ratio Lower Upper

56 100

55 40.0 58.2 87.4#



#15

Acrylonitrile

Concen: 0.218 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

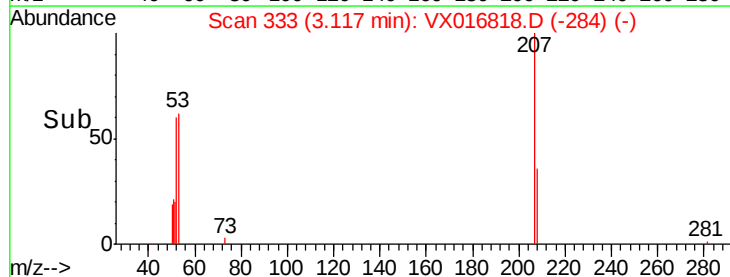
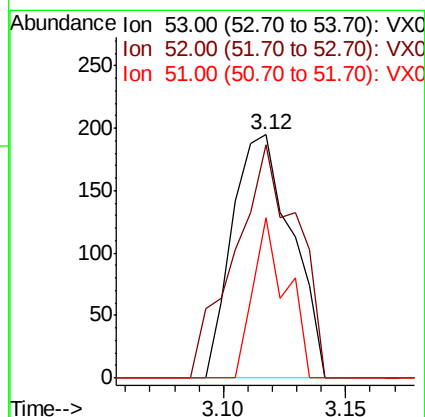
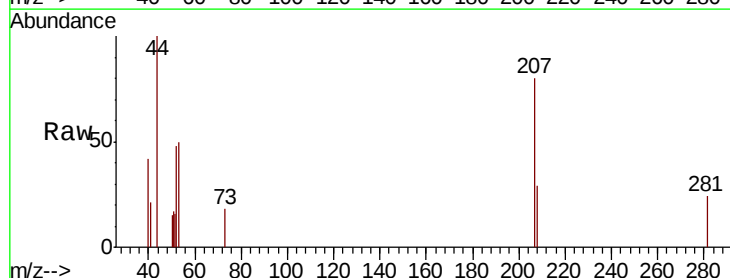
Tgt Ion: 53 Resp: 331

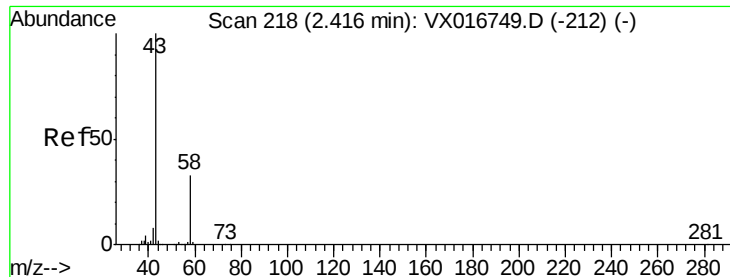
Ion Ratio Lower Upper

53 100

52 100.0 65.5 98.3#

51 37.2 28.6 42.8





#16

Acetone

Concen: 0.911 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

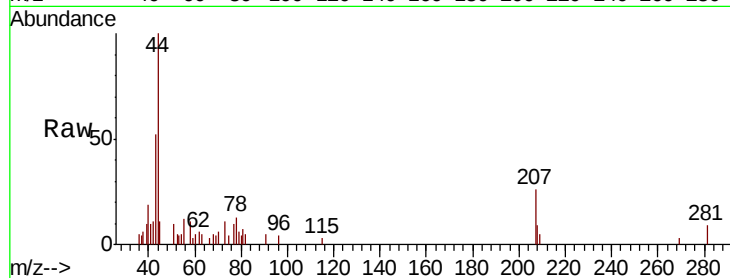
Z1-TB6-200610

Tot Ion: 43 Resp: 1230

Ion Ratio Lower Upper

43 100

58 25.9 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.41

800

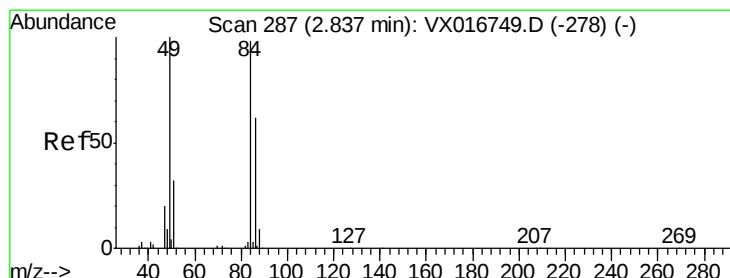
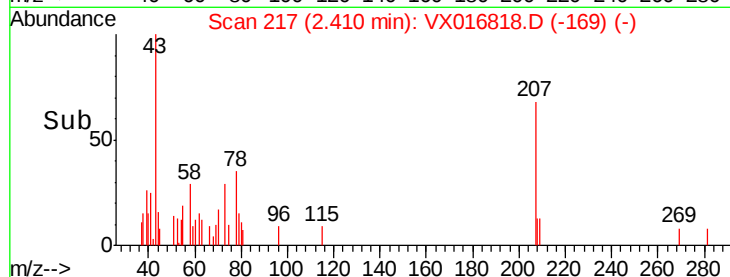
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.206 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Tgt Ion: 84 Resp: 600

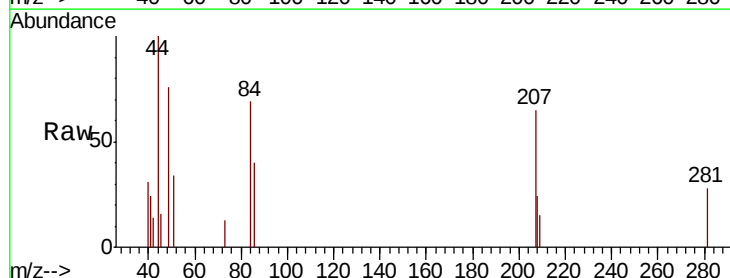
Ion Ratio Lower Upper

84 100

49 109.1 81.8 122.8

51 49.1 25.8 38.8#

86 57.8 50.4 75.6



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

500

400

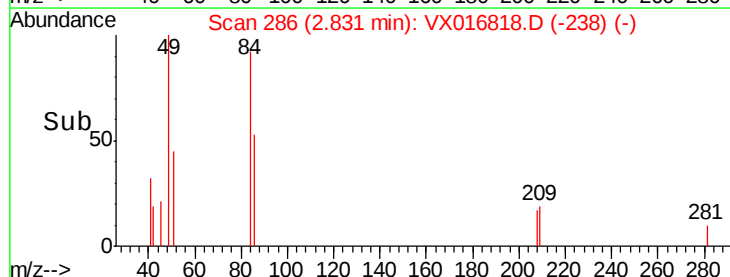
300

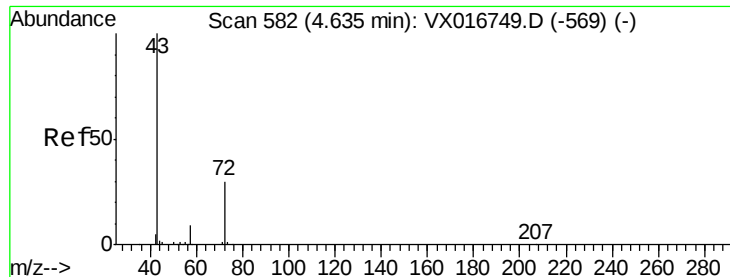
200

100

0

Time-->





#25

2-Butanone

Concen: 0.232 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

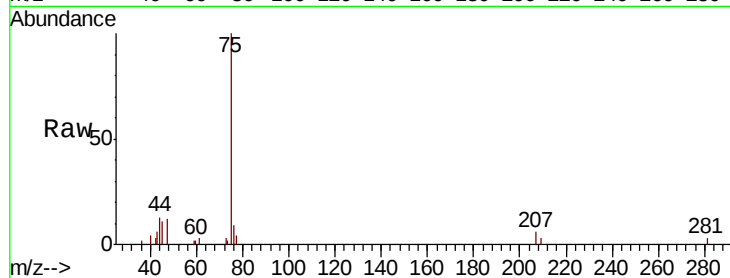
Z1-TB6-200610

Tot Ion: 43 Resp: 473

Ion Ratio Lower Upper

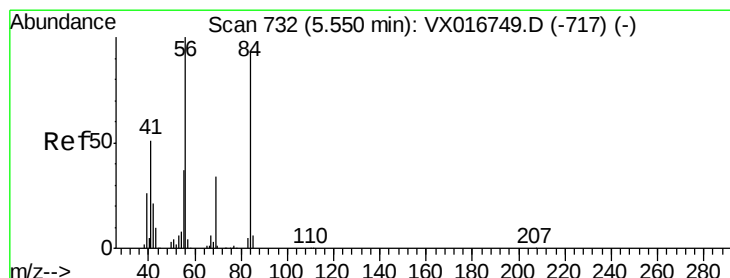
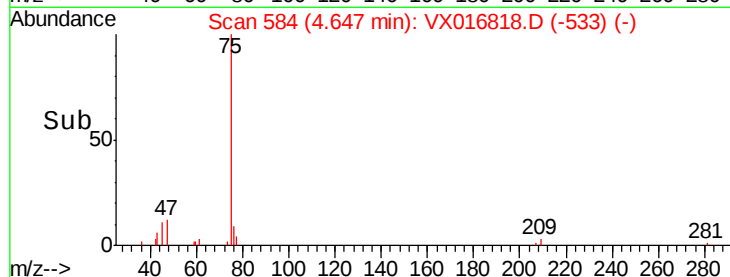
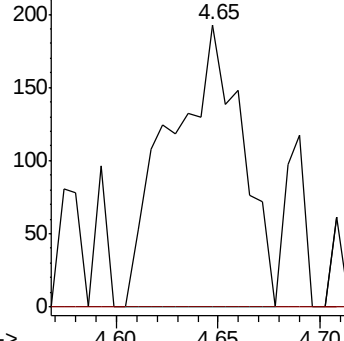
43 100

72 0.0 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 1.865 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

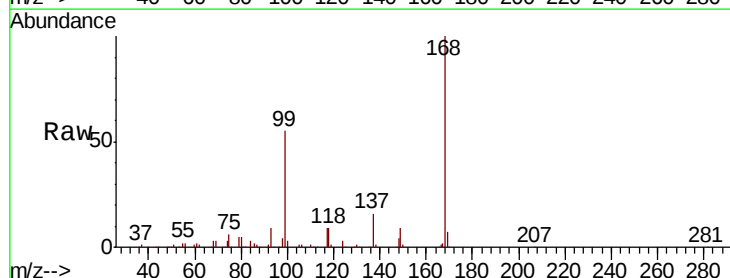
Tgt Ion: 56 Resp: 4542

Ion Ratio Lower Upper

56 100

69 169.8 27.1 40.7#

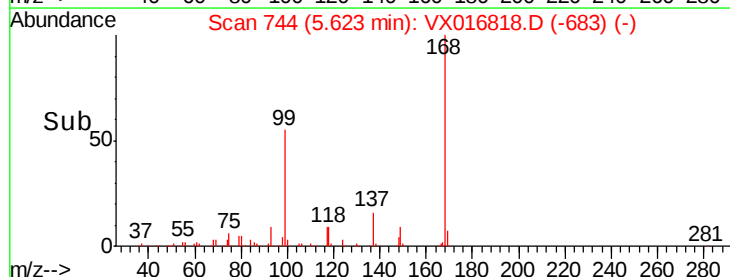
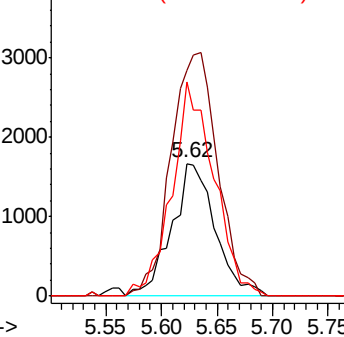
84 161.7 74.0 111.0#

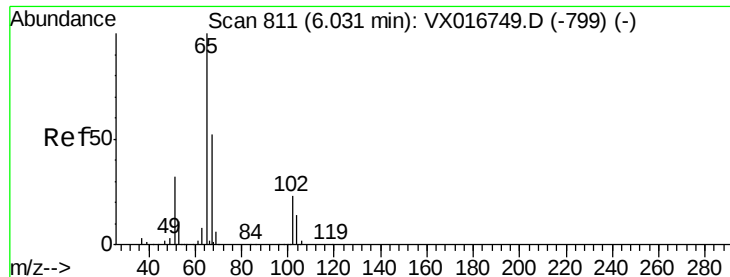


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.103 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

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ClientSampleId :

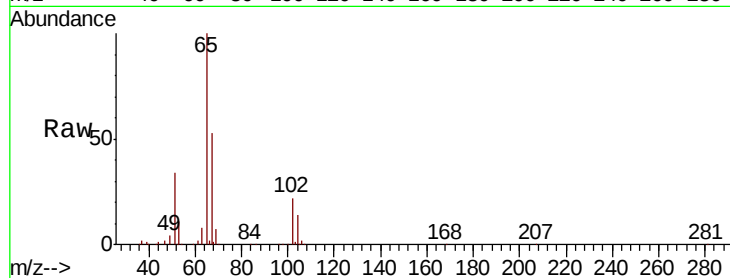
Z1-TB6-200610

Tot Ion: 65 Resp: 146193

Ion Ratio Lower Upper

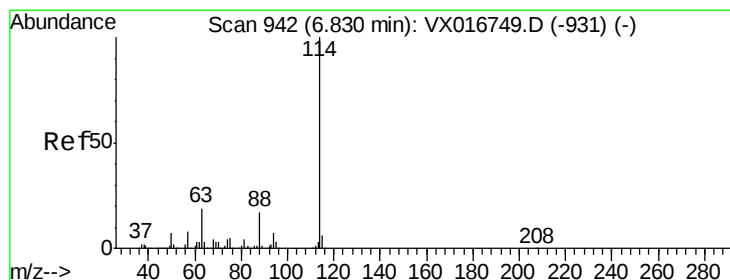
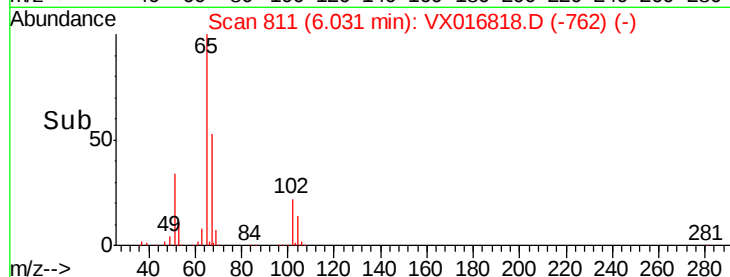
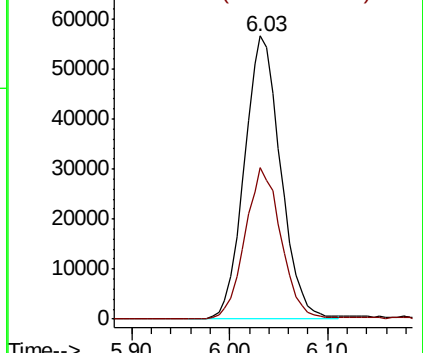
65 100

67 53.4 0.0 103.0



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

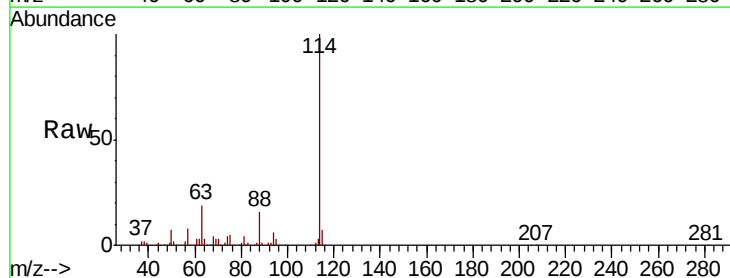
Tgt Ion: 114 Resp: 422146

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.8

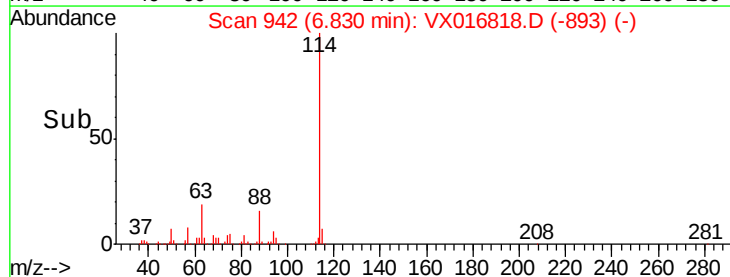
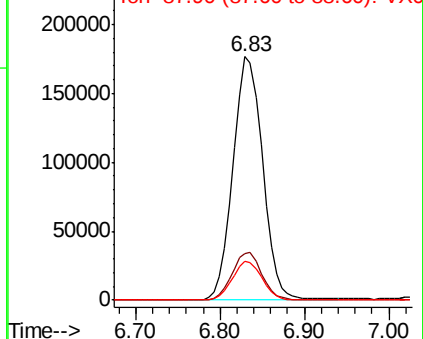
88 16.1 0.0 33.4

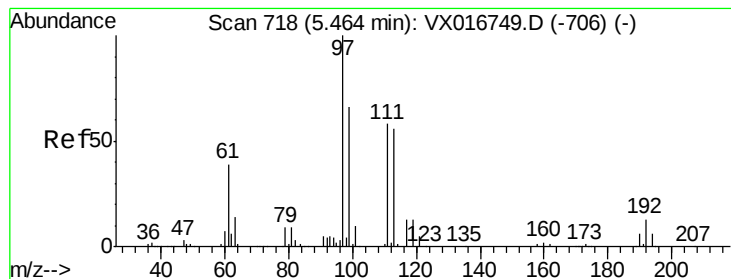


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.318 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

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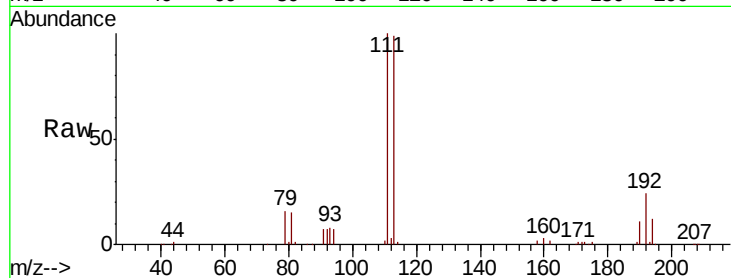
Tot Ion:113 Resp: 125848

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

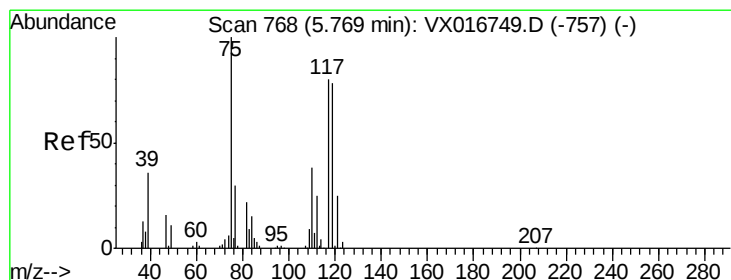
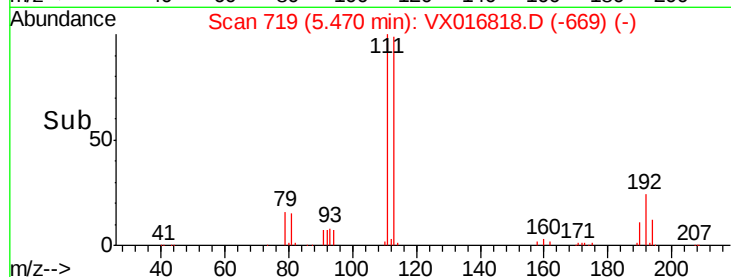
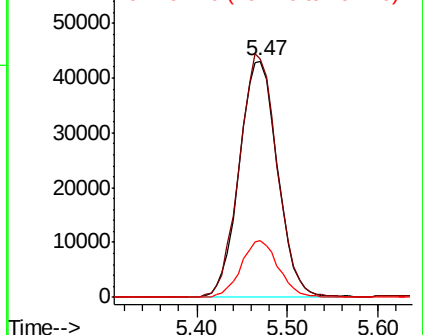
192 23.5 18.2 27.4



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



#36

1,1-Dichloropropene

Concen: 4.692 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

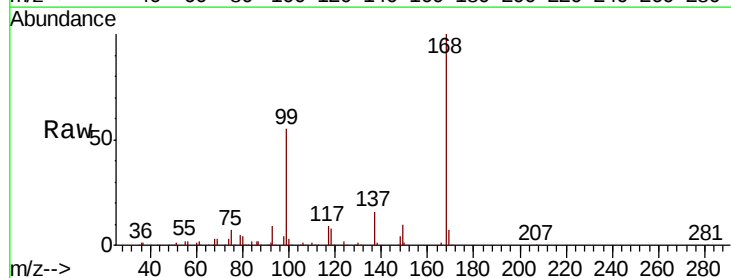
Tgt Ion: 75 Resp: 17504

Ion Ratio Lower Upper

75 100

110 10.3 18.4 55.2#

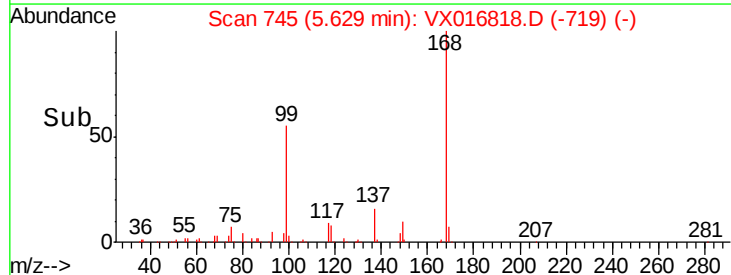
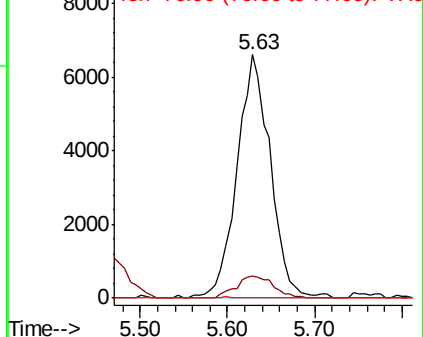
77 0.0 24.7 37.1#

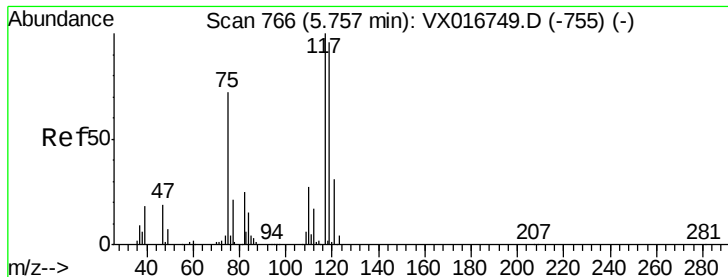


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.806 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB6-200610

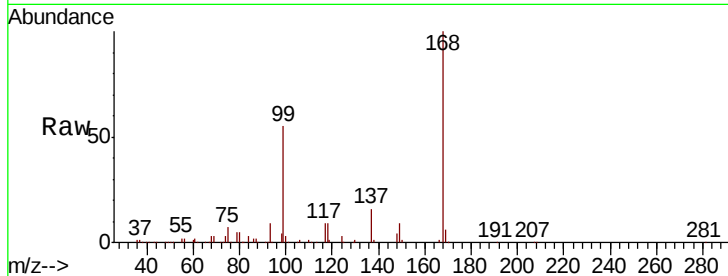
Tot Ion:117 Resp: 24598

Ion Ratio Lower Upper

117 100

119 6.6 76.7 115.1#

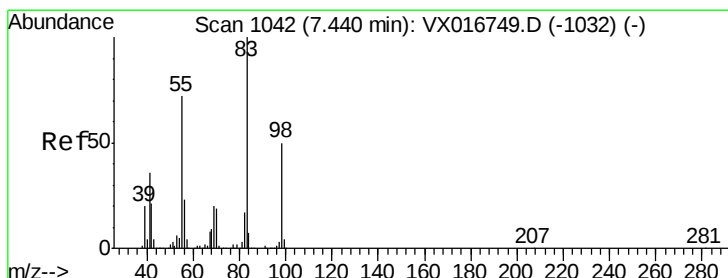
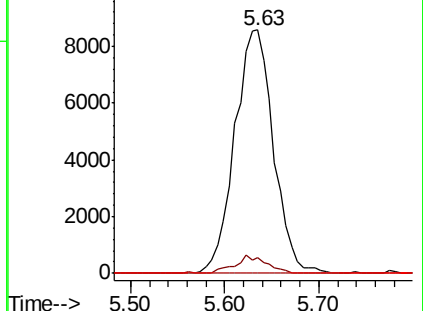
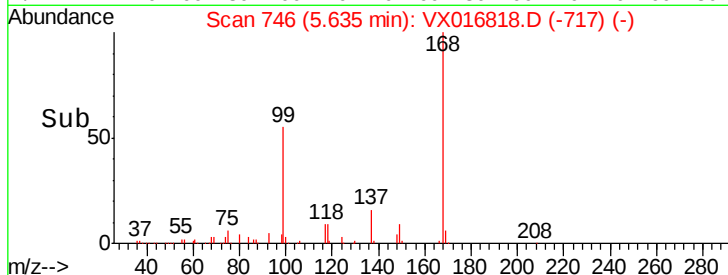
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.991 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

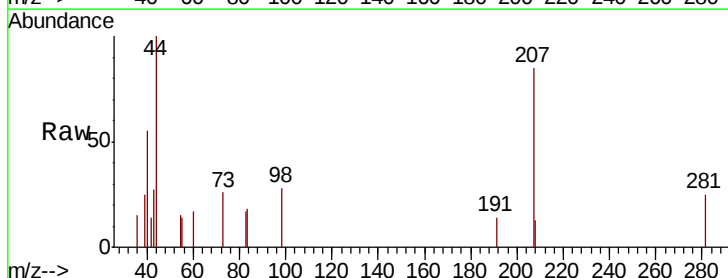
Tgt Ion: 83 Resp: 169

Ion Ratio Lower Upper

83 100

55 84.1 57.3 85.9

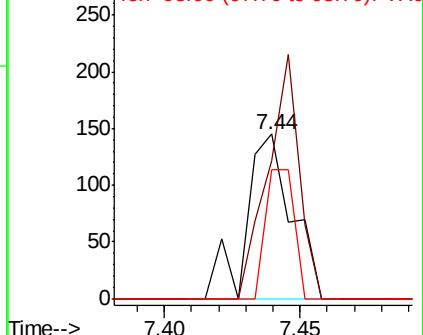
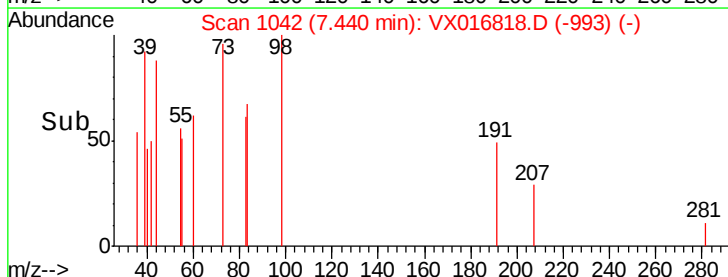
98 78.6 40.3 60.5#

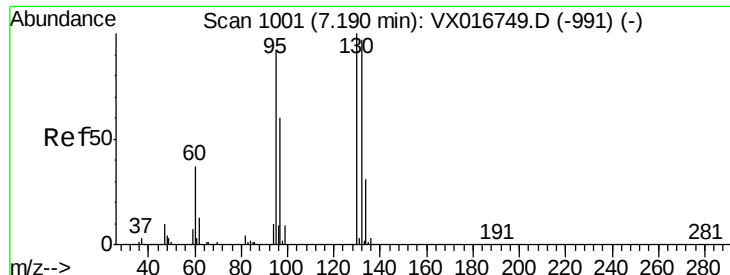


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 0.260 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

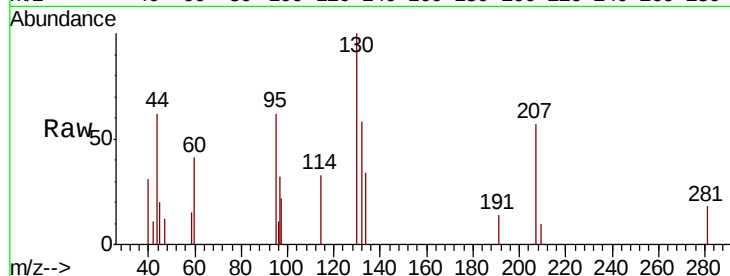
Z1-TB6-200610

Tot Ion:130 Resp: 913

Ion Ratio Lower Upper

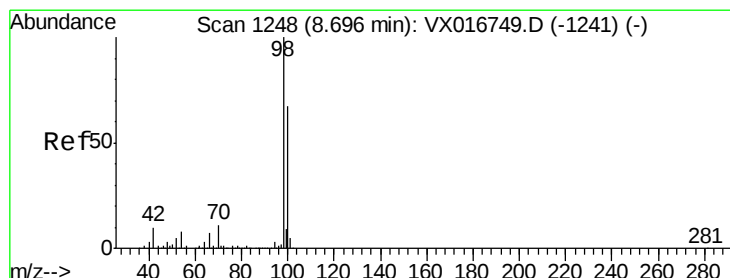
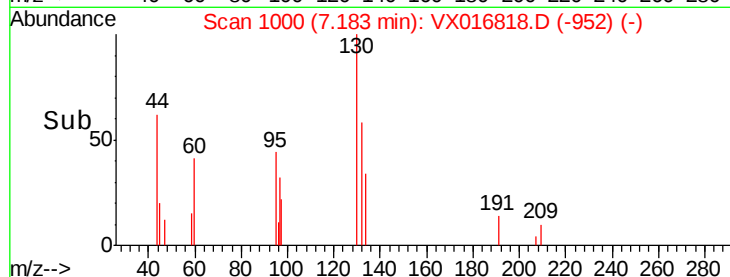
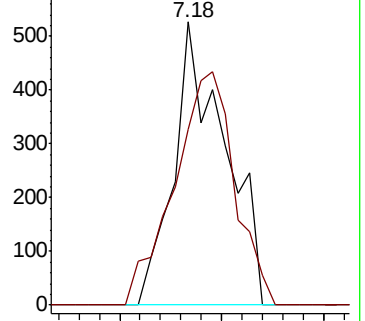
130 100

95 62.2 0.0 183.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 53.820 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016818.D

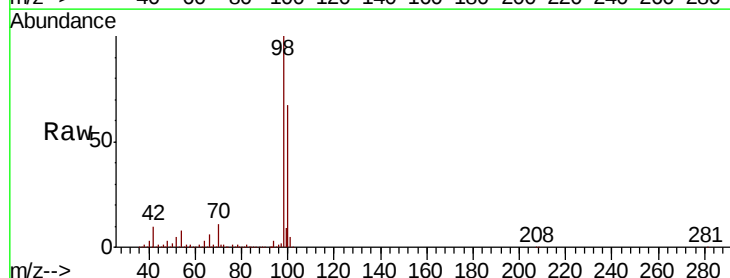
Acq: 17 Jun 2020 15:52

Tgt Ion: 98 Resp: 516870

Ion Ratio Lower Upper

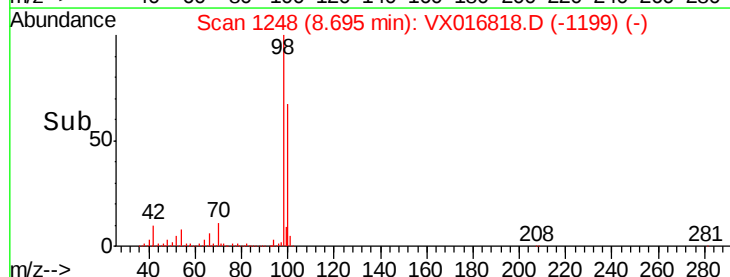
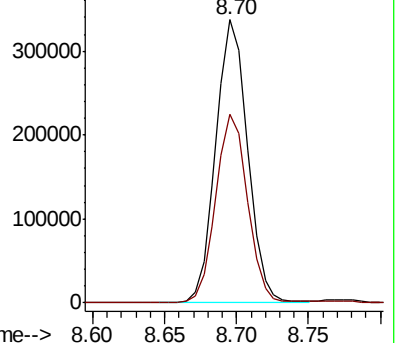
98 100

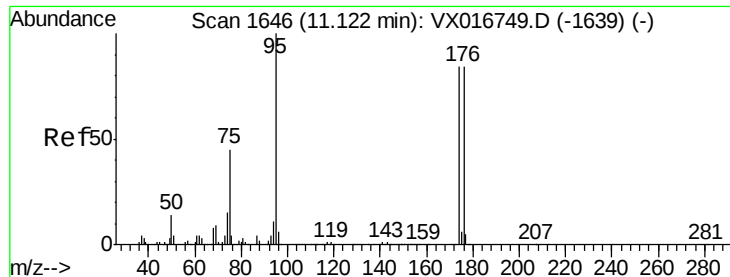
100 66.5 53.9 80.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 56.728 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB6-200610

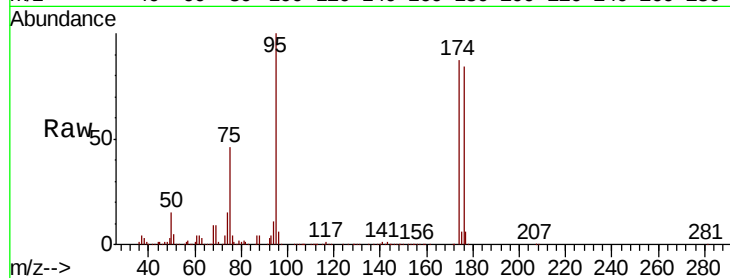
Tot Ion: 95 Resp: 208388

Ion Ratio Lower Upper

95 100

174 87.4 0.0 171.0

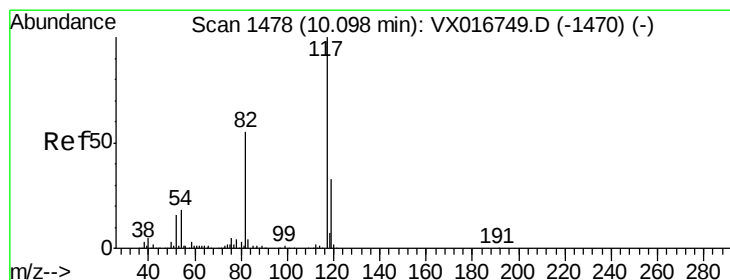
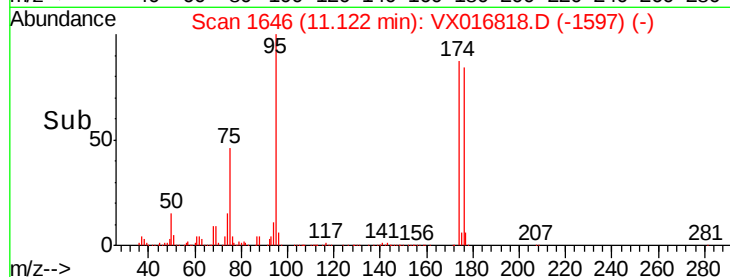
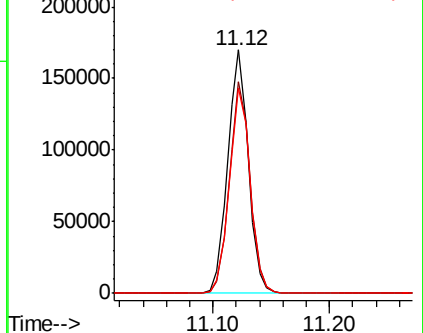
176 85.7 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

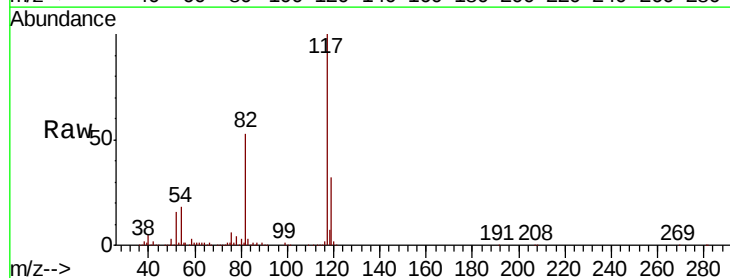
Tgt Ion: 117 Resp: 431099

Ion Ratio Lower Upper

117 100

82 52.9 43.8 65.6

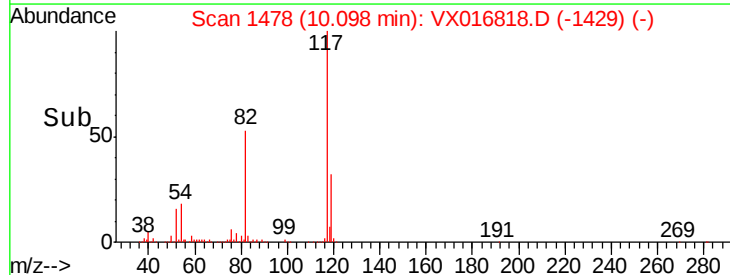
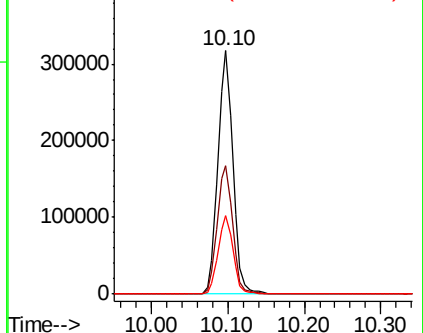
119 32.4 26.2 39.4

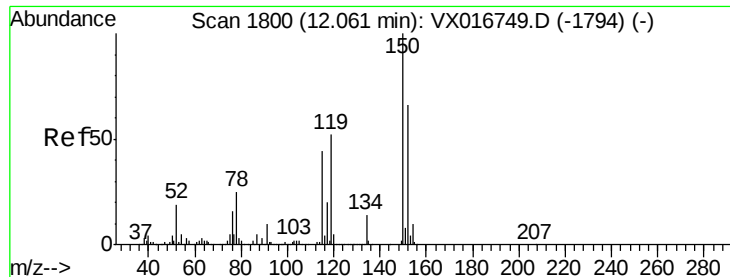


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016818.D

Acq: 17 Jun 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB6-200610

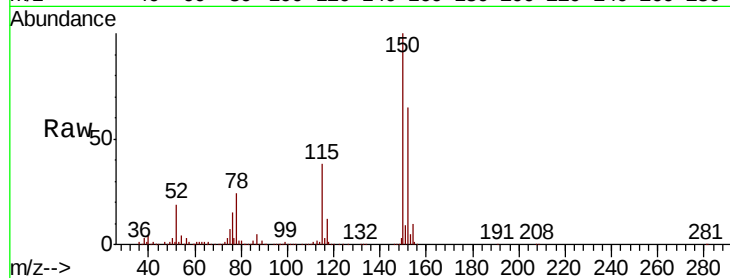
Tot Ion:152 Resp: 246304

Ion Ratio Lower Upper

152 100

115 57.5 40.3 120.8

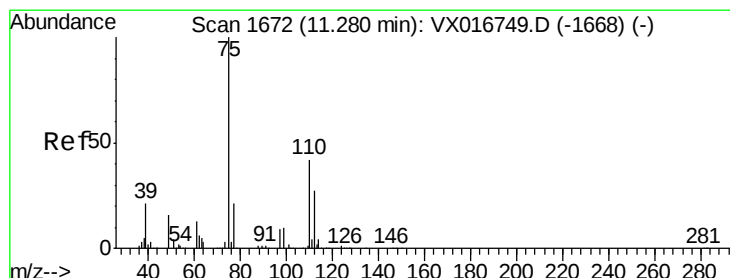
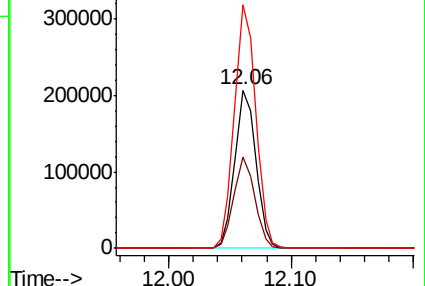
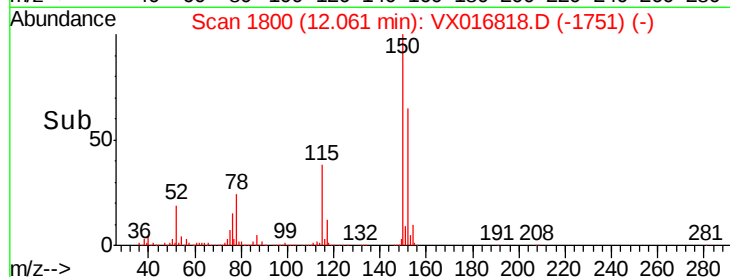
150 155.7 0.0 337.4



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



#76

1,2,3-Trichloropropane

Concen: 19.047 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016818.D

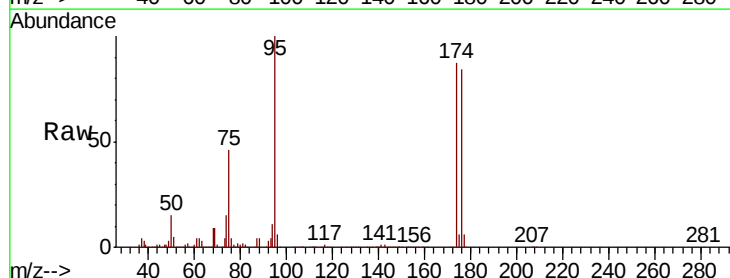
Acq: 17 Jun 2020 15:52

Tgt Ion: 75 Resp: 98658

Ion Ratio Lower Upper

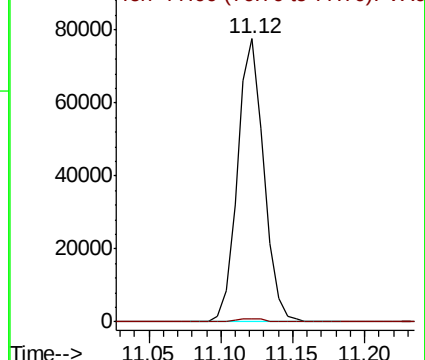
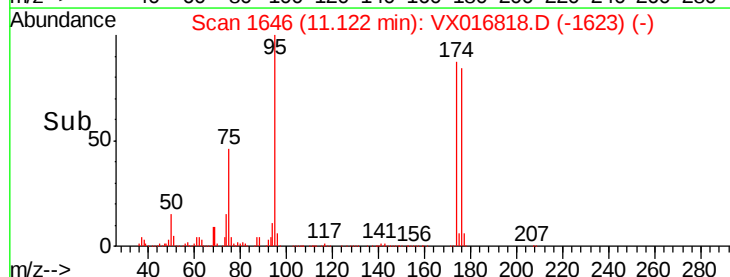
75 100

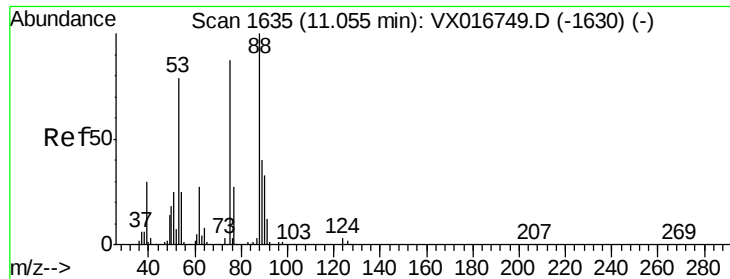
77 1.4 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

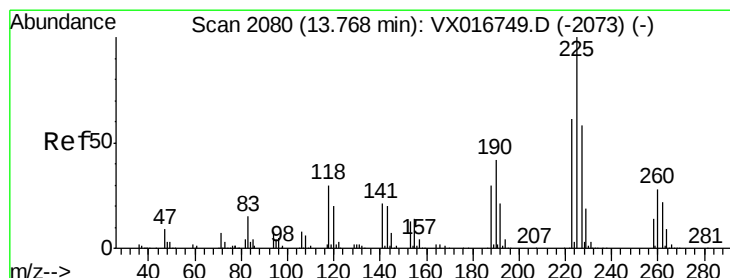
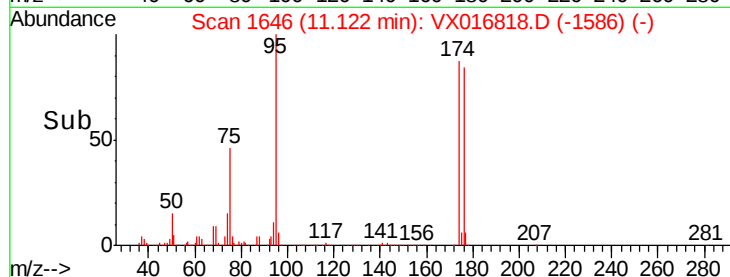
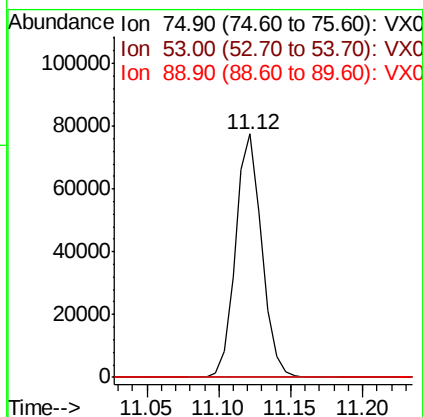
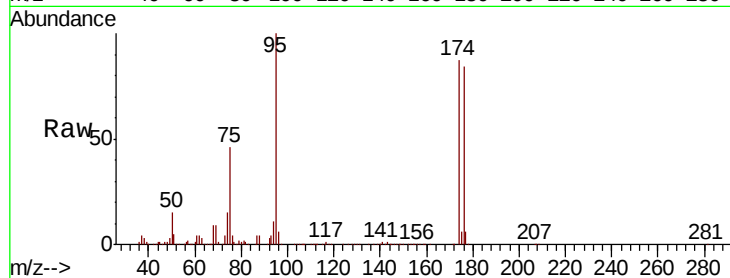




#81
trans-1,4-Dichloro-2-butene
Concen: 47.951 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX016818.D
Acq: 17 Jun 2020 15:52

Instrument :
MSVOA_X
ClientSampleId :
Z1-TB6-200610

Tot Ion: 75 Resp: 98658
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.0#
89 0.0 39.1 58.7#



#94
Hexachlorobutadiene
Concen: 0.542 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX016818.D
Acq: 17 Jun 2020 15:52

Tgt Ion: 225 Resp: 307
Ion Ratio Lower Upper
225 100
223 35.2 31.1 93.5
227 62.9 30.9 92.7

