

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050720\
 Data File : VX016098.D
 Acq On : 07 May 2020 16:49
 Operator : JC/SP
 Sample : L2545-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-200505

Quant Time: May 08 02:05:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	284537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	472160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	460991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	244016	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	177565	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
35) Dibromofluoromethane	5.47	113	137846	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
50) Toluene-d8	8.70	98	577071	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	11.12	95	236987	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	

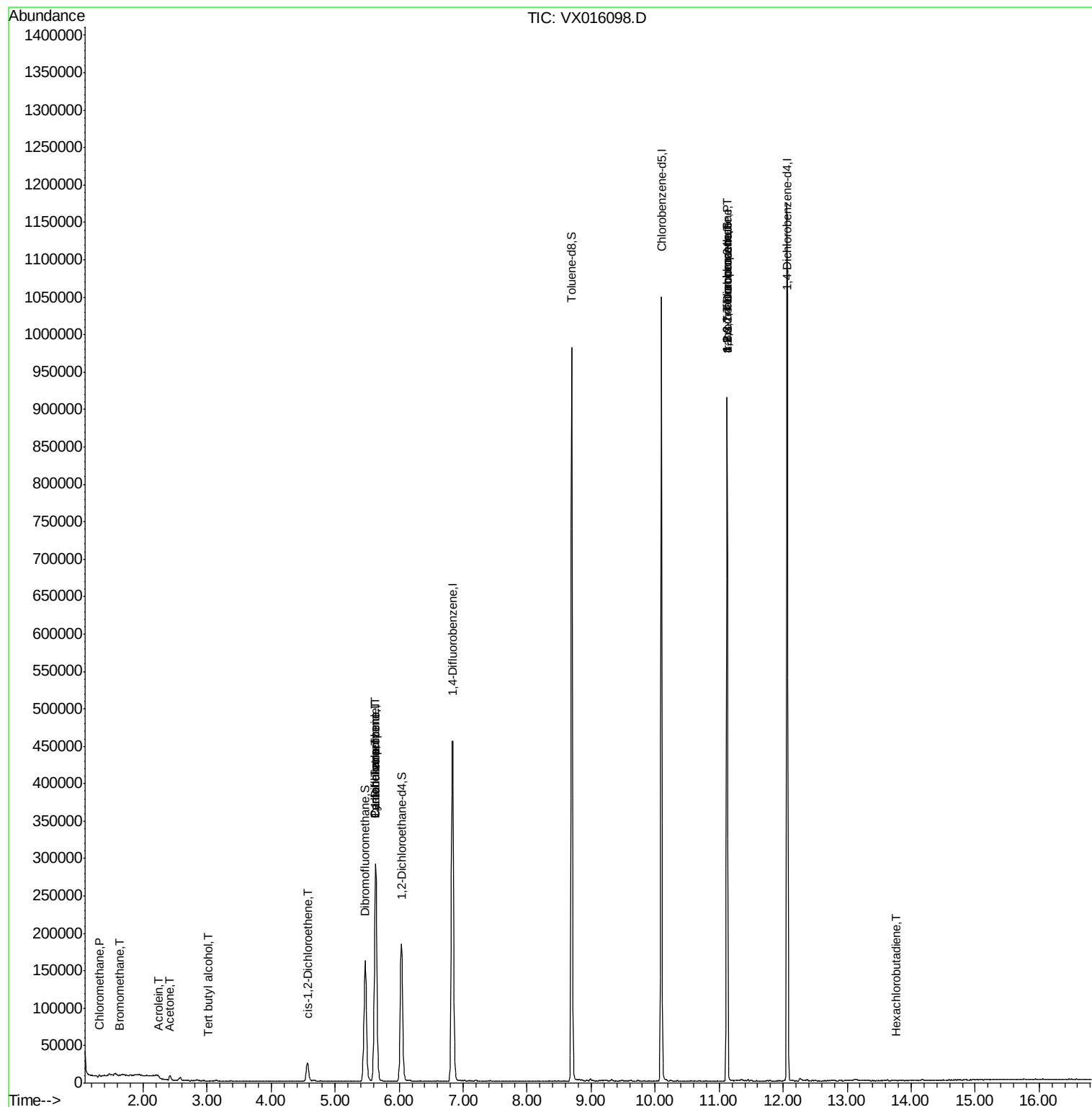
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1647	0.471	ug/l	96
5) Bromomethane	1.63	94	417	0.222	ug/l #	48
11) Tert butyl alcohol	3.02	59	232	0.245	ug/l #	79
13) Acrolein	2.24	56	172	0.290	ug/l	90
16) Acetone	2.42	43	7062	4.227	ug/l	96
17) Carbon Disulfide	2.55	76	1434	Below Cal	#	90
27) cis-1,2-Dichloroethene	4.57	96	15587	4.326	ug/l	87
31) Cyclohexane	5.63	56	5716	1.099	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22127	4.761	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27406	5.801	ug/l #	15
75) 1,1,2,2-Tetrachloroethane	11.13	83	186	2.105	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	119395	21.562	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	119395	51.384	ug/l #	13
94) Hexachlorobutadiene	13.77	225	24	0.533	ug/l #	18

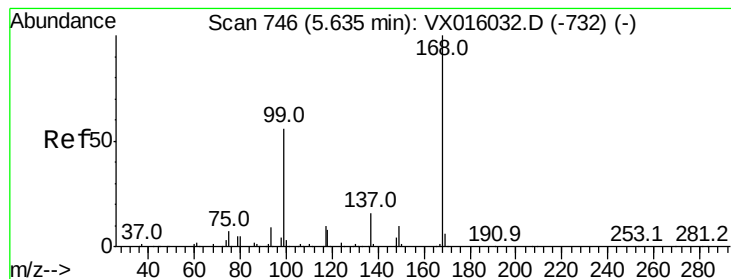
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

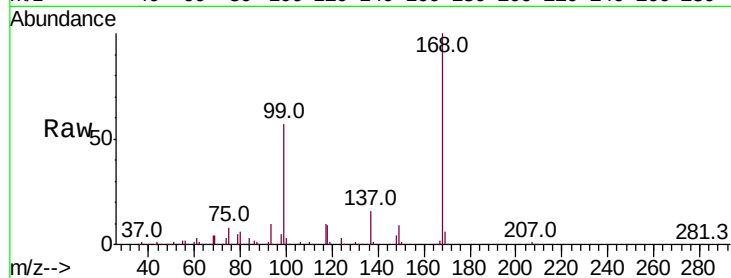
OUTFALL001-200505

Tot Ion:168 Resp: 284537

Ion Ratio Lower Upper

168 100

99 57.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

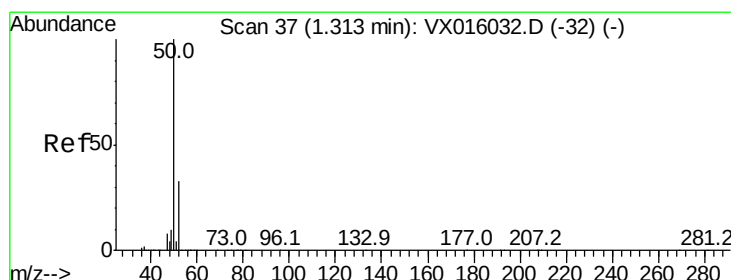
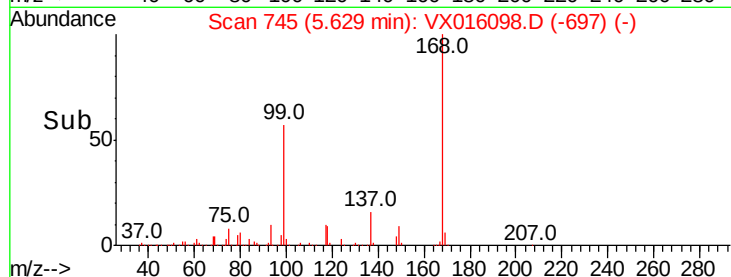
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.471 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016098.D

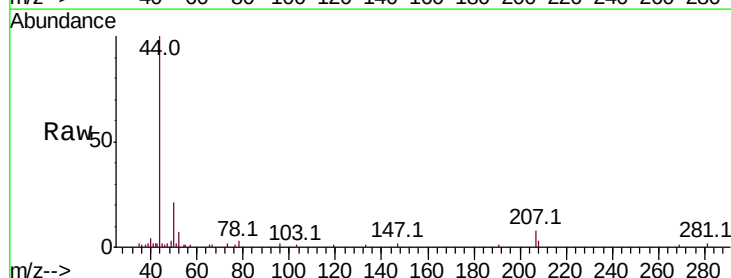
Acq: 07 May 2020 16:49

Tgt Ion: 50 Resp: 1647

Ion Ratio Lower Upper

50 100

52 34.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1500

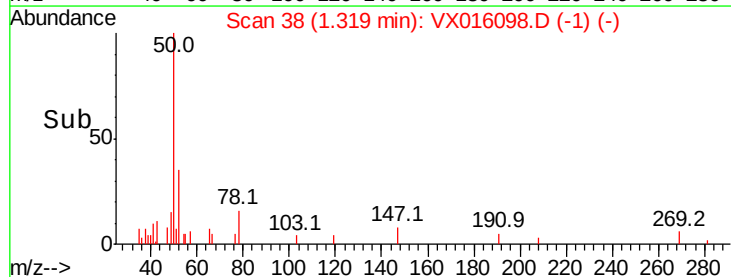
1000

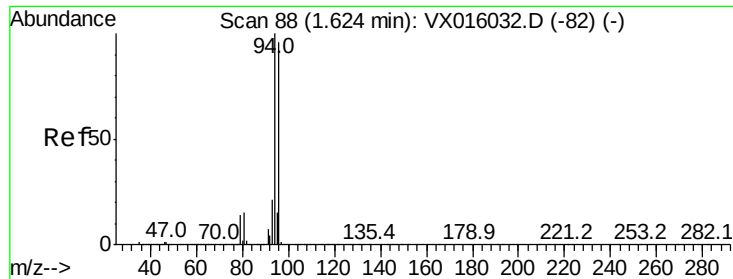
500

0

1.25 1.30 1.35 1.40

Time-->





#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

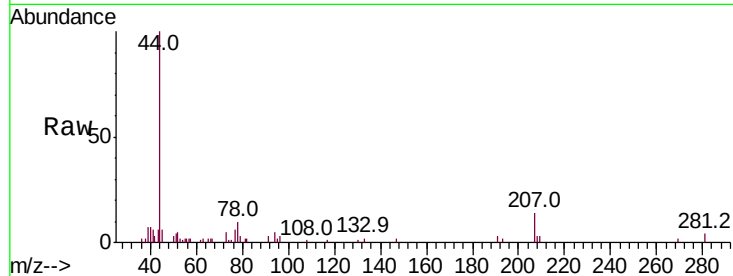
OUTFALL001-200505

Tot Ion: 94 Resp: 417

Ion Ratio Lower Upper

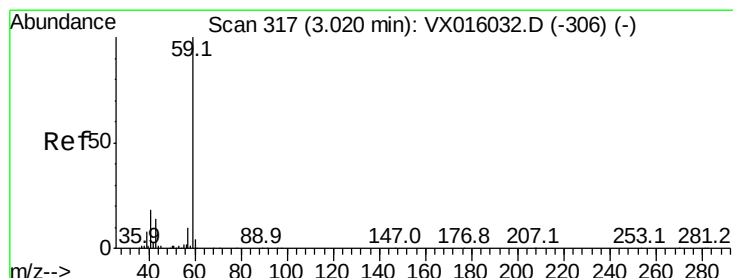
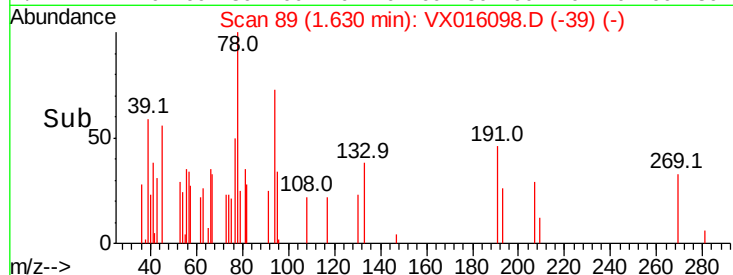
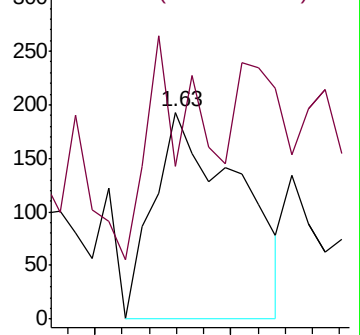
94 100

96 45.6 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.245 ug/l

RT: 3.02 min Scan# 317

Delta R.T. -0.00 min

Lab File: VX016098.D

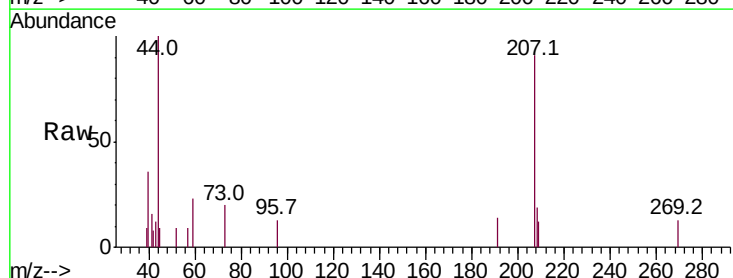
Acq: 07 May 2020 16:49

Tgt Ion: 59 Resp: 232

Ion Ratio Lower Upper

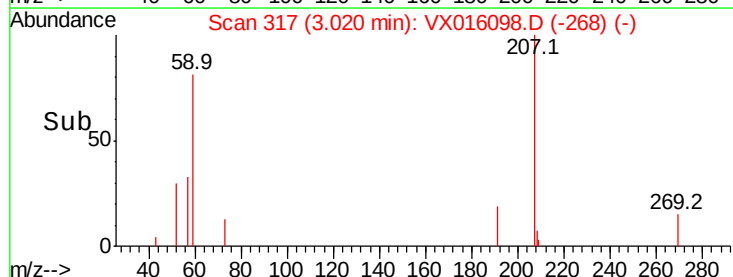
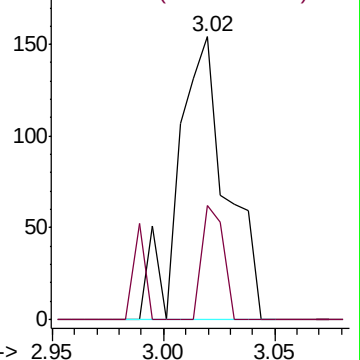
59 100

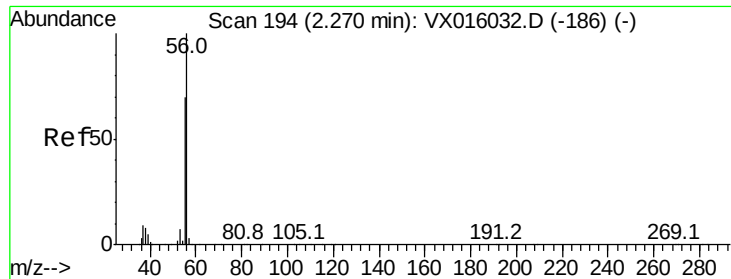
57 18.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.290 ug/l

RT: 2.24 min Scan# 189

Delta R.T. -0.03 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

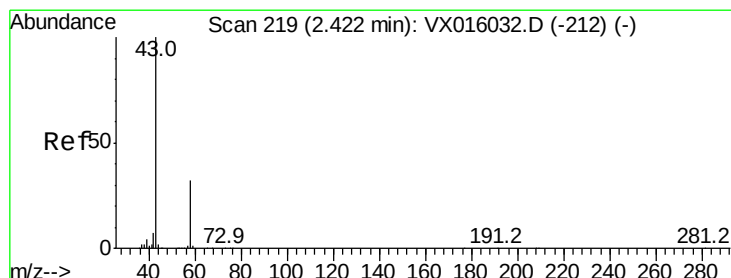
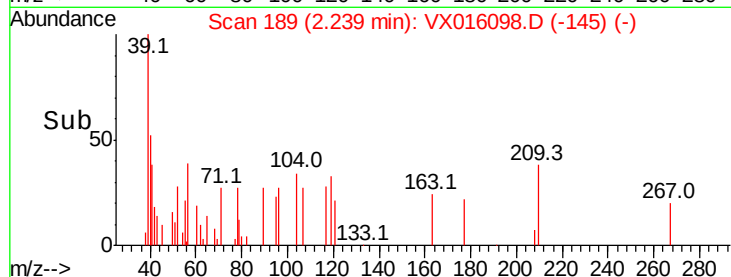
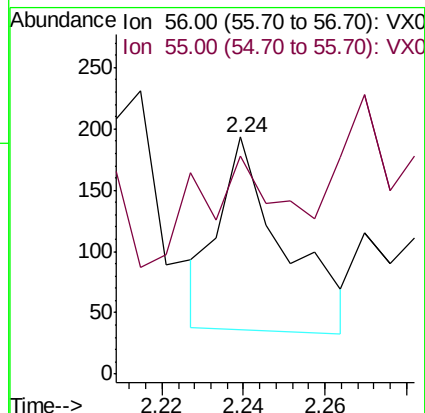
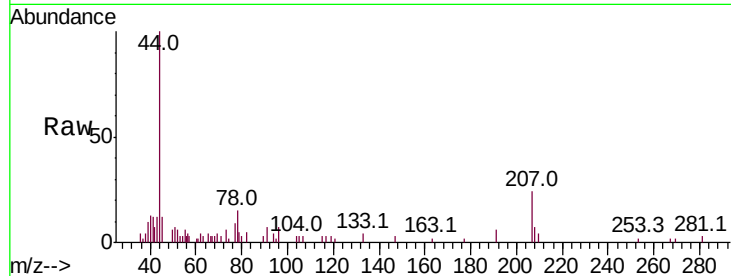
OUTFALL001-200505

Tot Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 62.2 56.5 84.7



#16

Acetone

Concen: 4.227 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016098.D

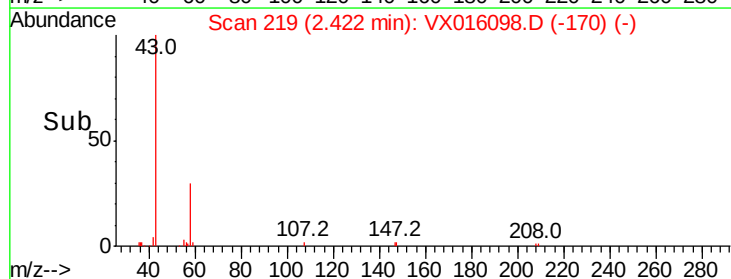
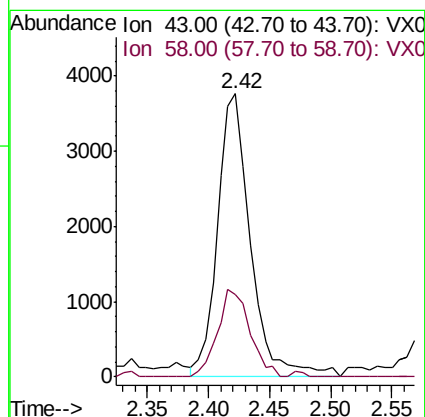
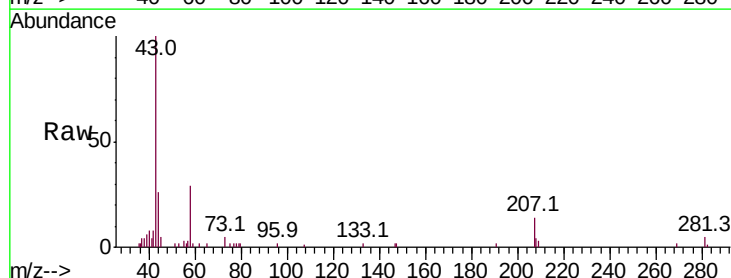
Acq: 07 May 2020 16:49

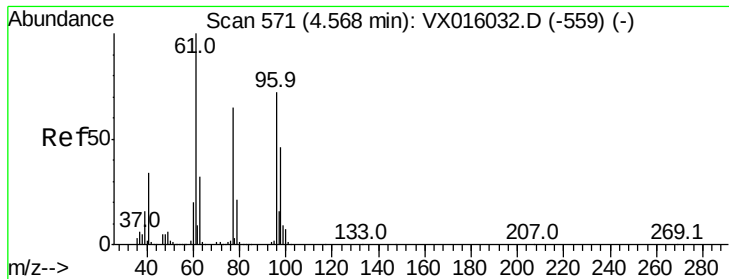
Tgt Ion: 43 Resp: 7062

Ion Ratio Lower Upper

43 100

58 29.3 25.4 38.0



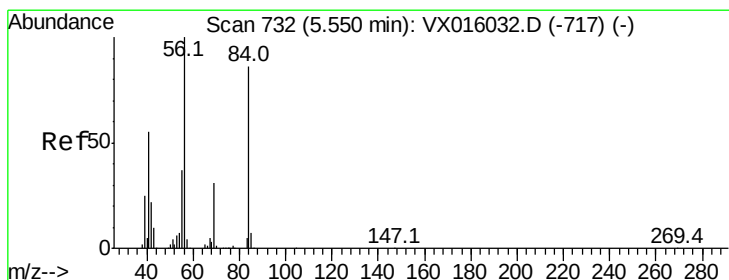
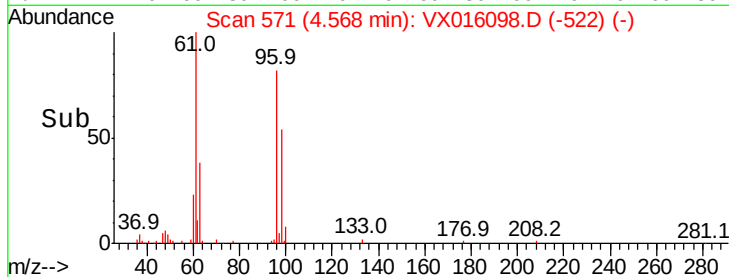
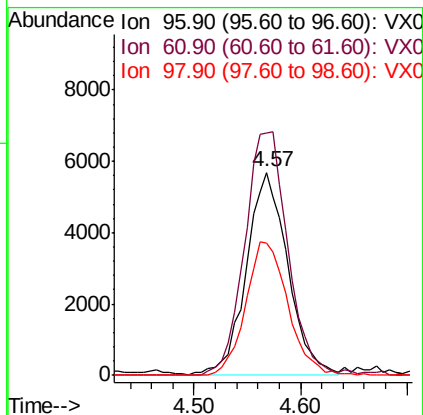
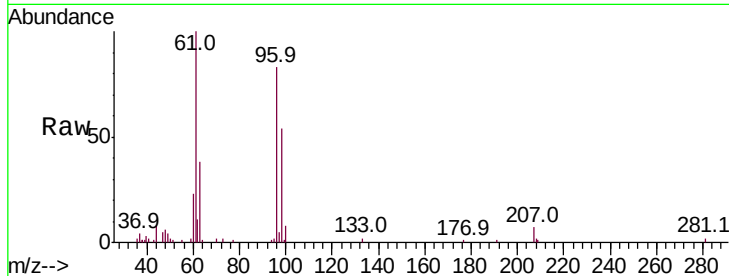


#27

cis-1,2-Dichloroethene
Concen: 4.326 ug/l
RT: 4.57 min Scan# 571
Delta R.T. -0.00 min
Lab File: VX016098.D
Acq: 07 May 2020 16:49

Instrument :
MSVOA_X
ClientSampleId :
OUTFALL001-200505

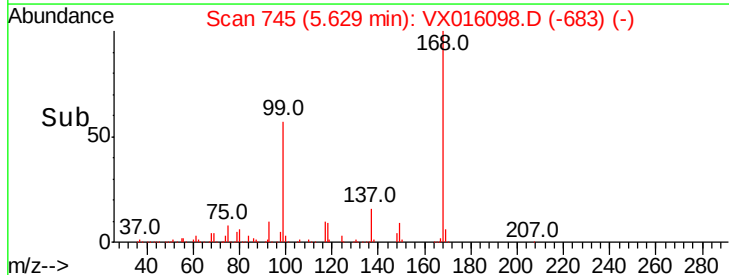
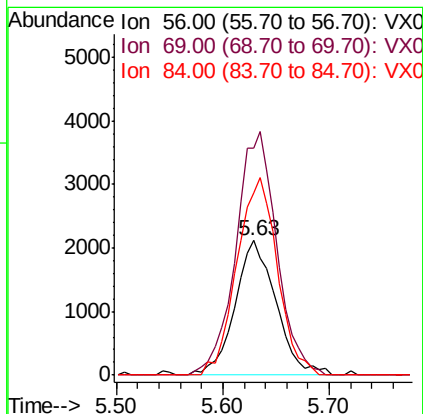
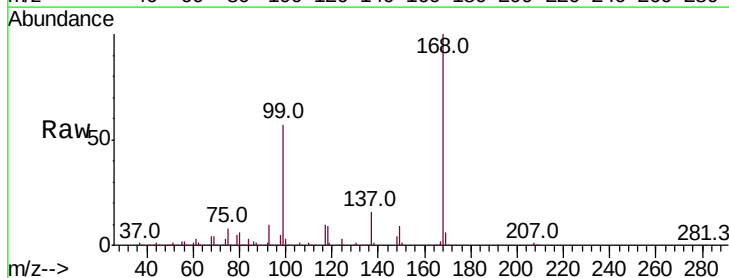
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.3	0.0	296.2
98	66.6	0.0	129.4

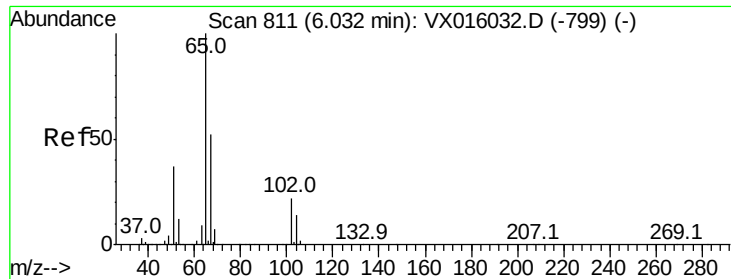


#31

Cyclohexane
Concen: 1.099 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016098.D
Acq: 07 May 2020 16:49

Tgt Ion	Ratio	Lower	Upper
56	100		
69	168.8	25.0	37.6#
84	135.3	69.0	103.6#





#33

1,2-Dichloroethane-d4

Concen: 47.424 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

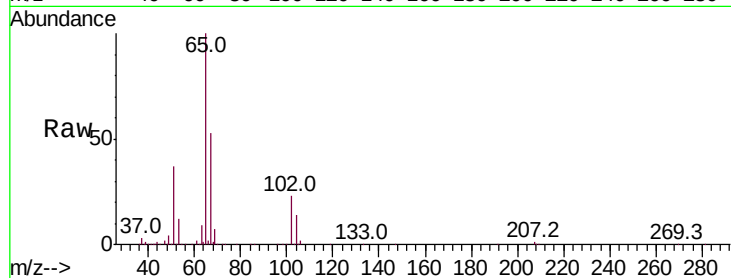
OUTFALL001-200505

Tot Ion: 65 Resp: 177565

Ion Ratio Lower Upper

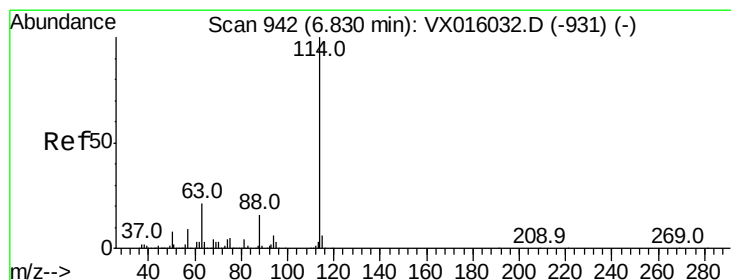
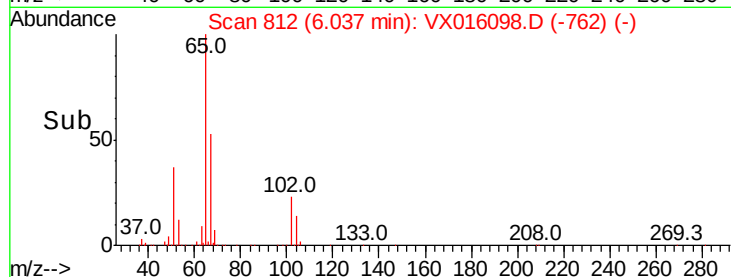
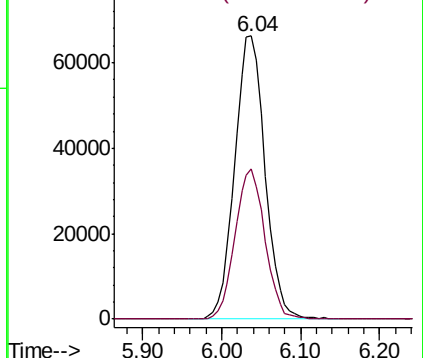
65 100

67 52.2 0.0 104.8



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: VX016098.D

Acq: 07 May 2020 16:49

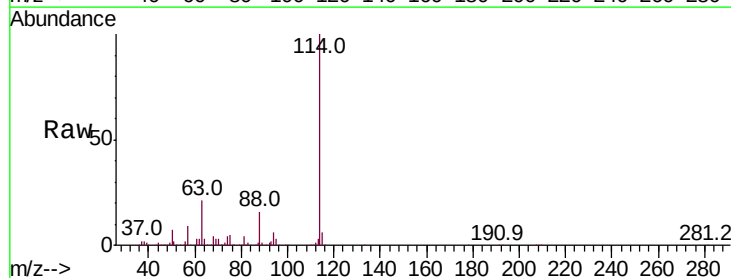
Tgt Ion: 114 Resp: 472160

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

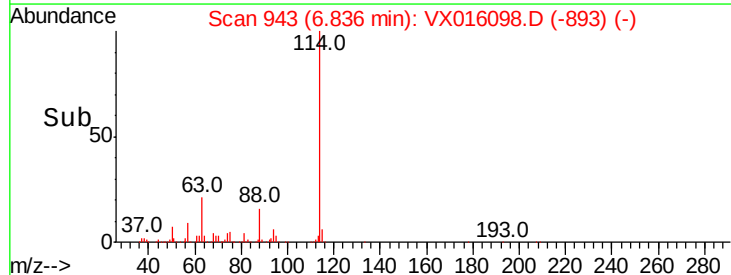
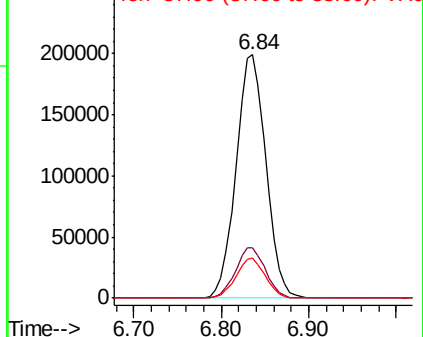
88 16.3 0.0 31.4

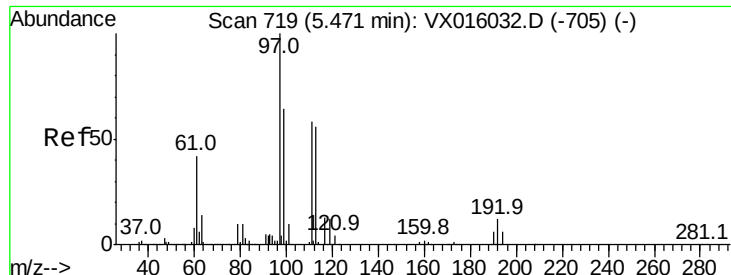


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.082 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

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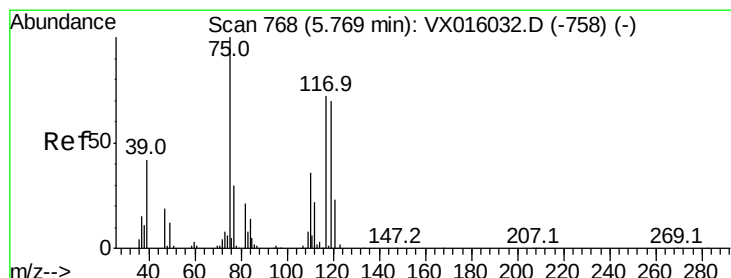
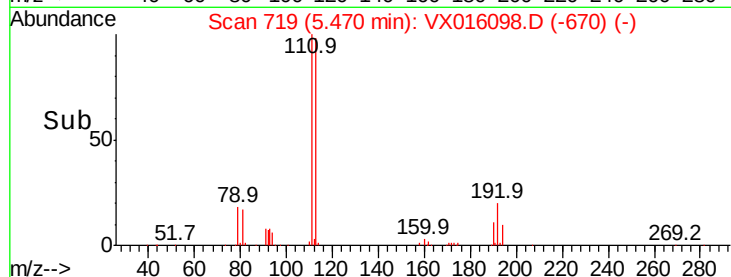
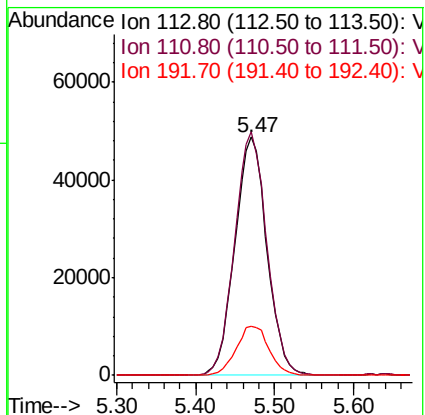
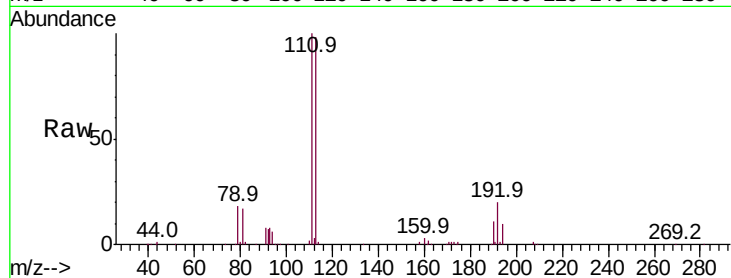
Tot Ion:113 Resp: 137846

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

192 21.3 17.0 25.4



#36

1,1-Dichloropropene

Concen: 4.761 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

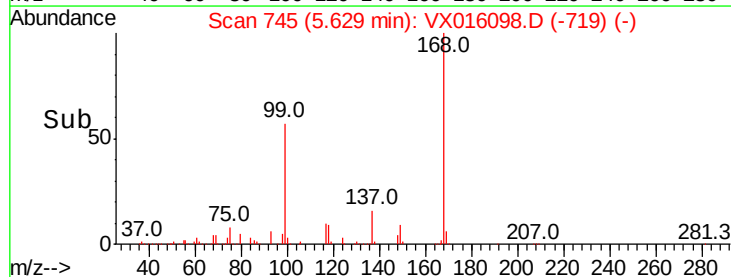
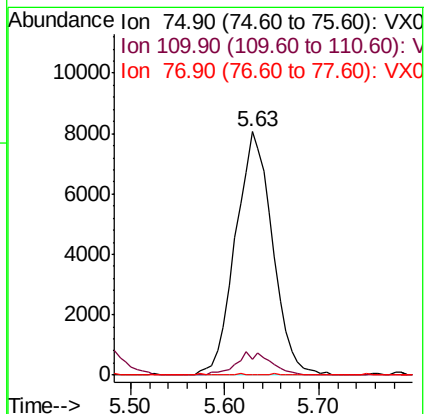
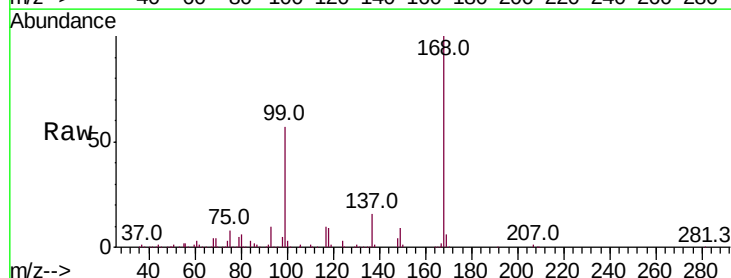
Tgt Ion: 75 Resp: 22127

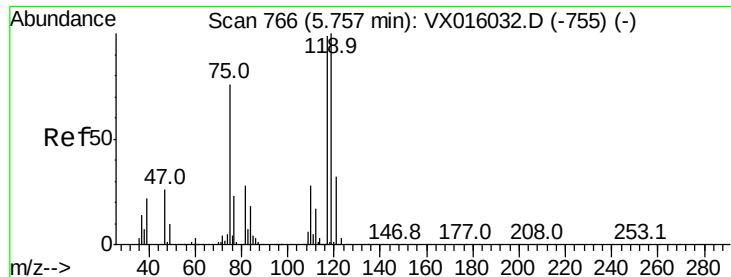
Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.1#

77 0.1 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 5.801 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

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OUTFALL001-200505

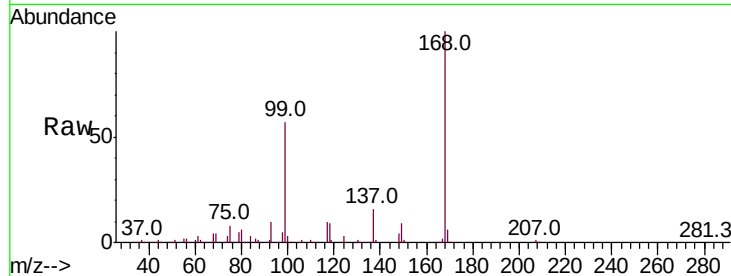
Tot Ion:117 Resp: 27406

Ion Ratio Lower Upper

117 100

119 5.8 80.3 120.5#

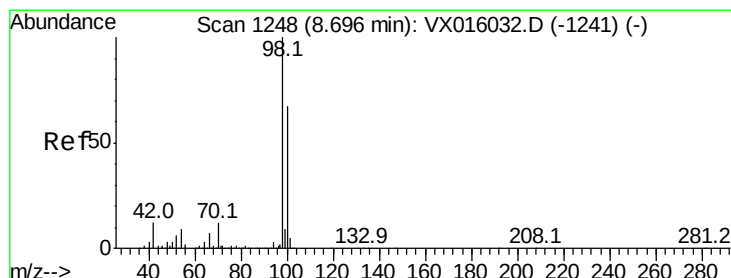
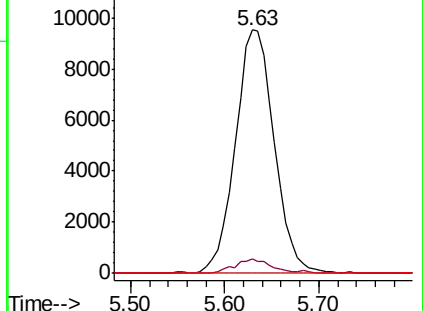
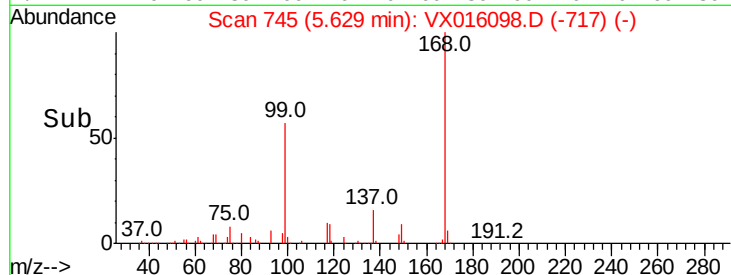
121 0.0 25.7 38.5#



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



#50

Toluene-d8

Concen: 50.068 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016098.D

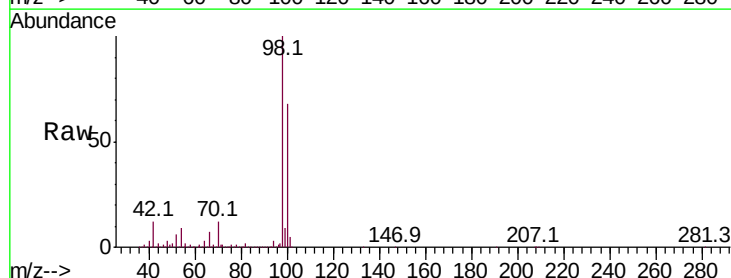
Acq: 07 May 2020 16:49

Tgt Ion: 98 Resp: 577071

Ion Ratio Lower Upper

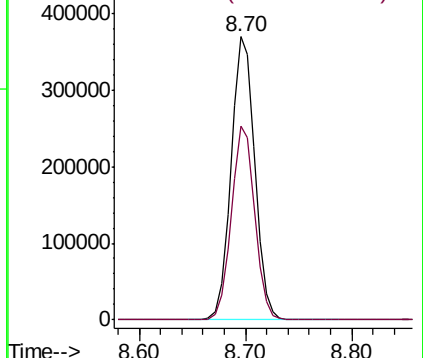
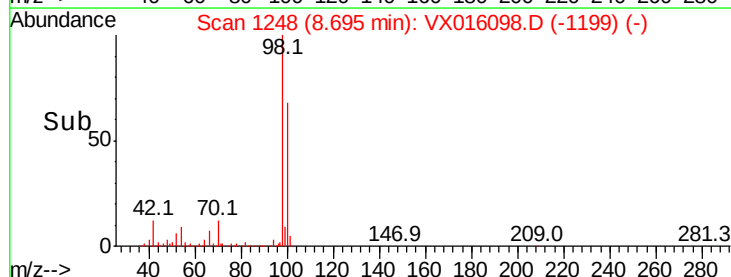
98 100

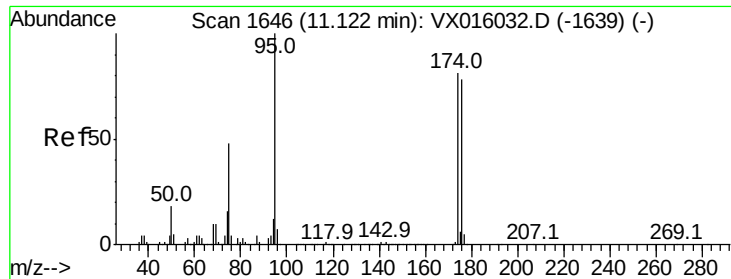
100 67.6 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.059 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200505

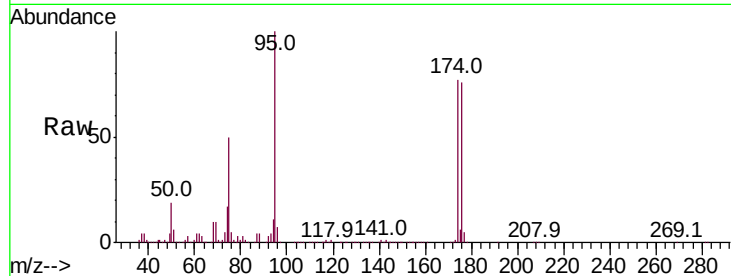
Tot Ion: 95 Resp: 236987

Ion Ratio Lower Upper

95 100

174 79.0 0.0 159.4

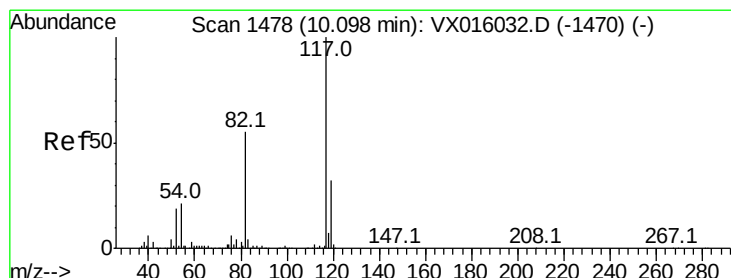
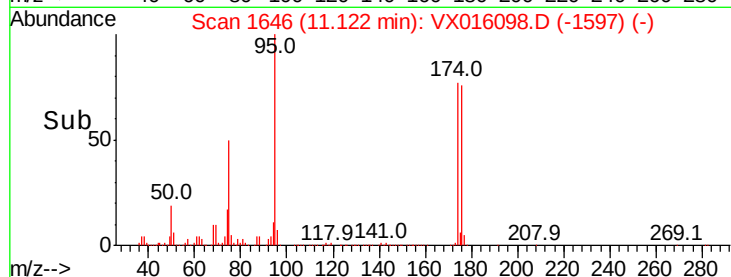
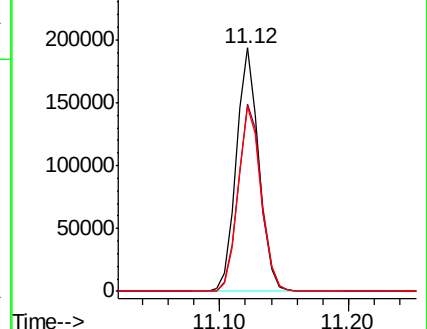
176 77.2 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016098.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016098.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016098.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

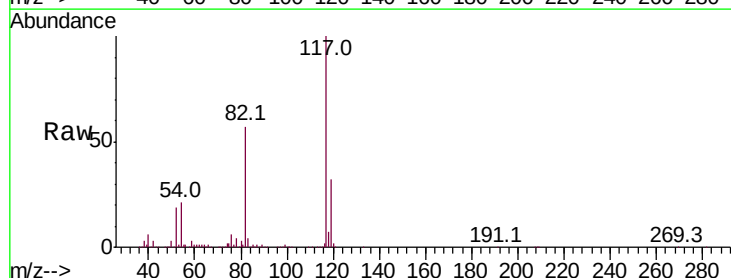
Tgt Ion: 117 Resp: 460991

Ion Ratio Lower Upper

117 100

82 56.9 44.4 66.6

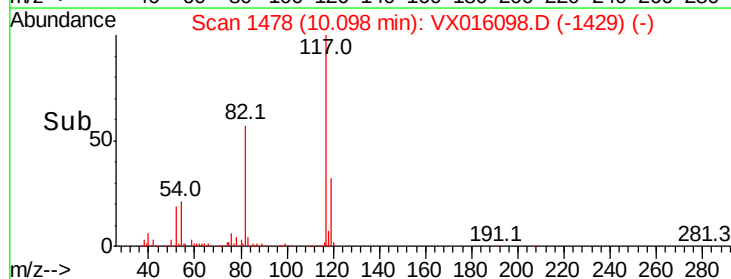
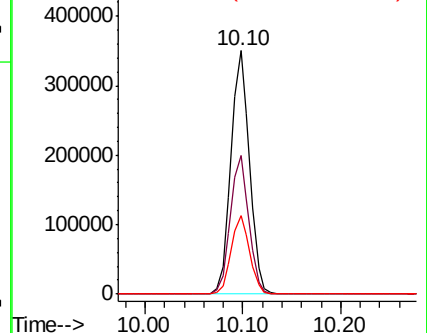
119 32.1 25.5 38.3

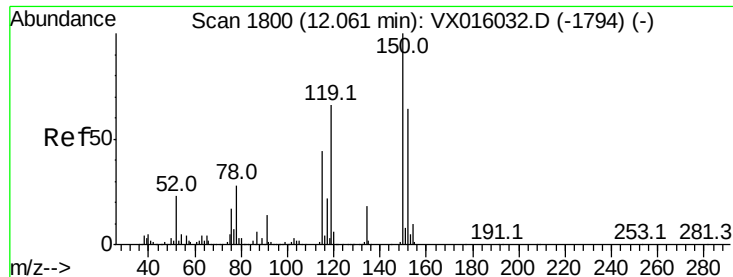


Abundance Ion 116.90 (116.60 to 117.60): VX016098.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016098.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016098.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

OUTFALL001-200505

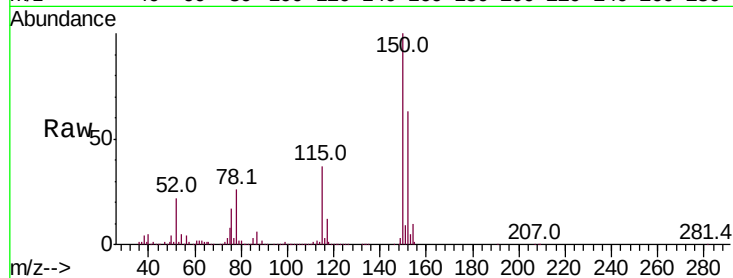
Tot Ion:152 Resp: 244016

Ion Ratio Lower Upper

152 100

115 57.7 41.3 124.1

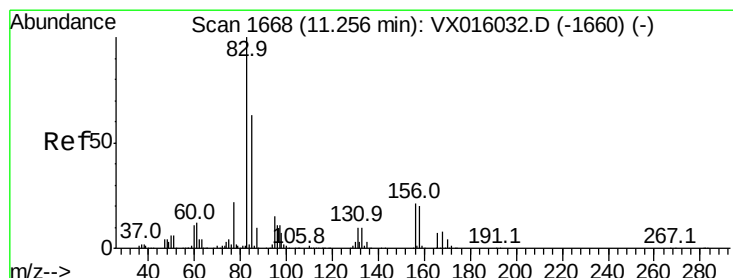
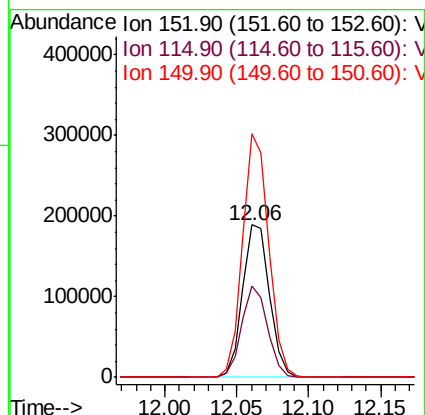
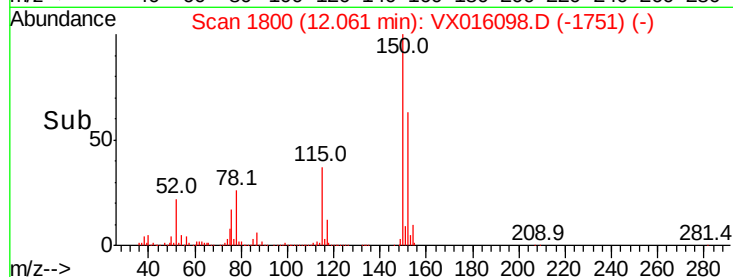
150 155.2 0.0 352.2



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: 2.105 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

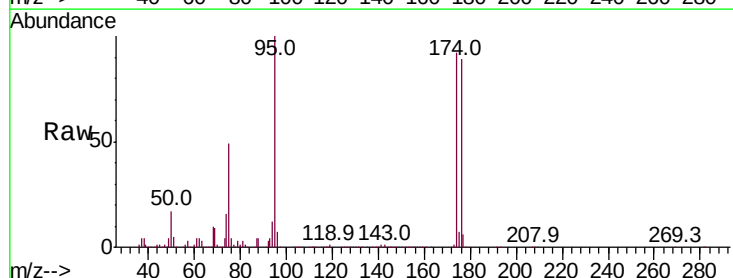
Tgt Ion: 83 Resp: 186

Ion Ratio Lower Upper

83 100

131 177.4 5.1 15.4#

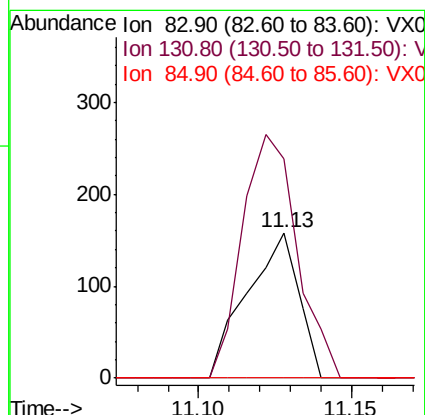
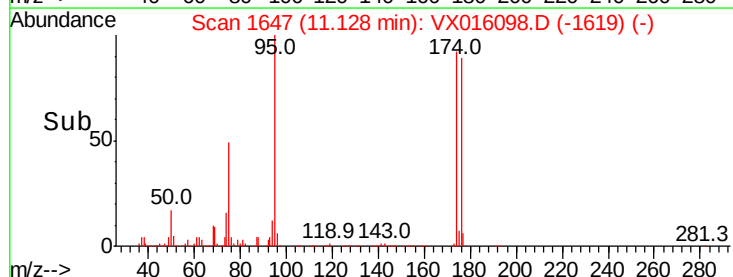
85 0.0 32.0 96.0#

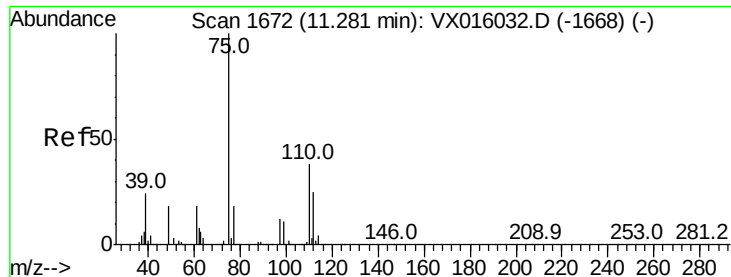


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.562 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

Instrument :

MSVOA_X

ClientSampleId :

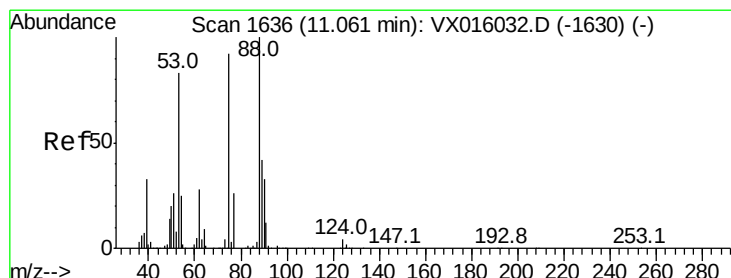
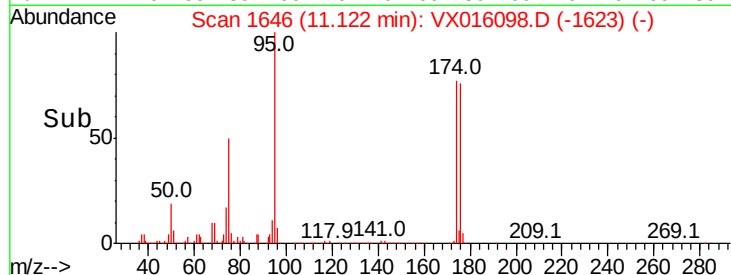
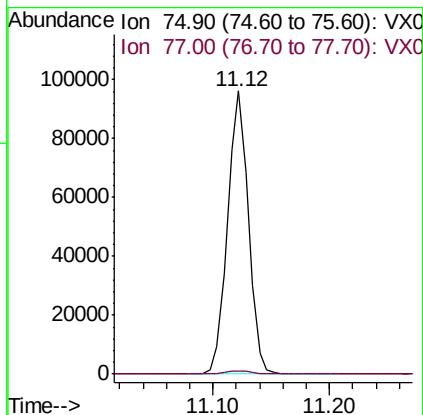
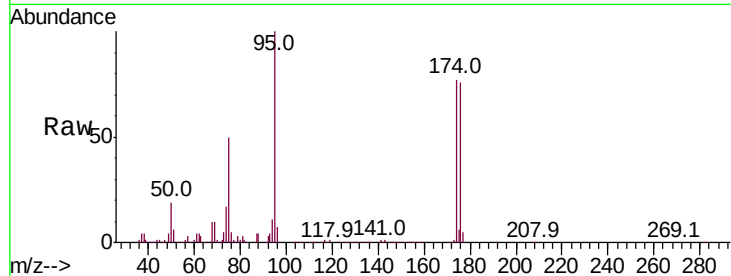
OUTFALL001-200505

Tot Ion: 75 Resp: 119395

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.384 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016098.D

Acq: 07 May 2020 16:49

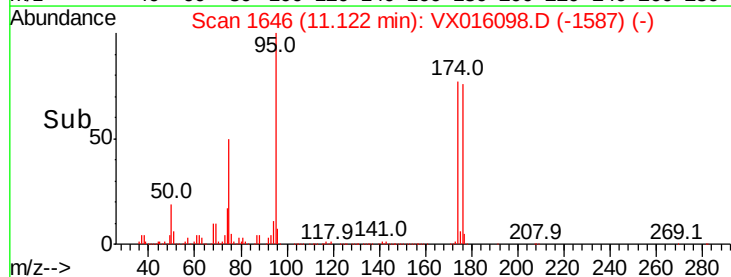
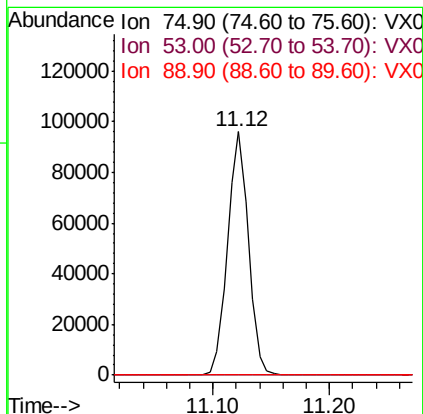
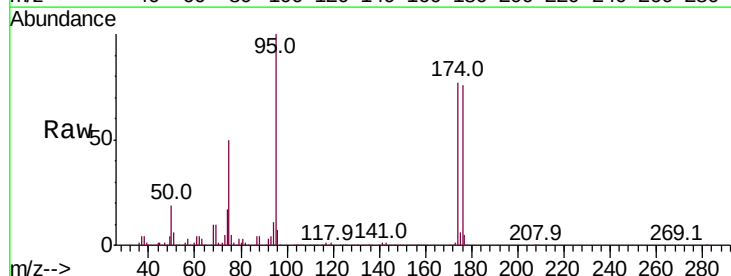
Tgt Ion: 75 Resp: 119395

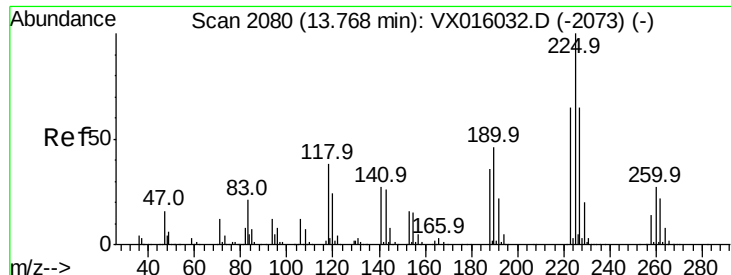
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94
 Hexachlorobutadiene
 Concen: 0.533 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016098.D
 Acq: 07 May 2020 16:49

Instrument :
 MSVOA_X
 ClientSampleId :
 OUTFALL001-200505

Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.3	96.9#
227	0.0	31.8	95.4#

