

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017123.D
 Acq On : 02 Jul 2020 01:29
 Operator : JC/SP
 Sample : L3159-10 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31BR-20200629

Quant Time: Jul 02 04:21:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	213995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	363454	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	374745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	194958	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	140853	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
35) Dibromofluoromethane	5.47	113	119842	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
50) Toluene-d8	8.70	98	437179	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
62) 4-Bromofluorobenzene	11.12	95	185749	55.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.78%	

Target Compounds

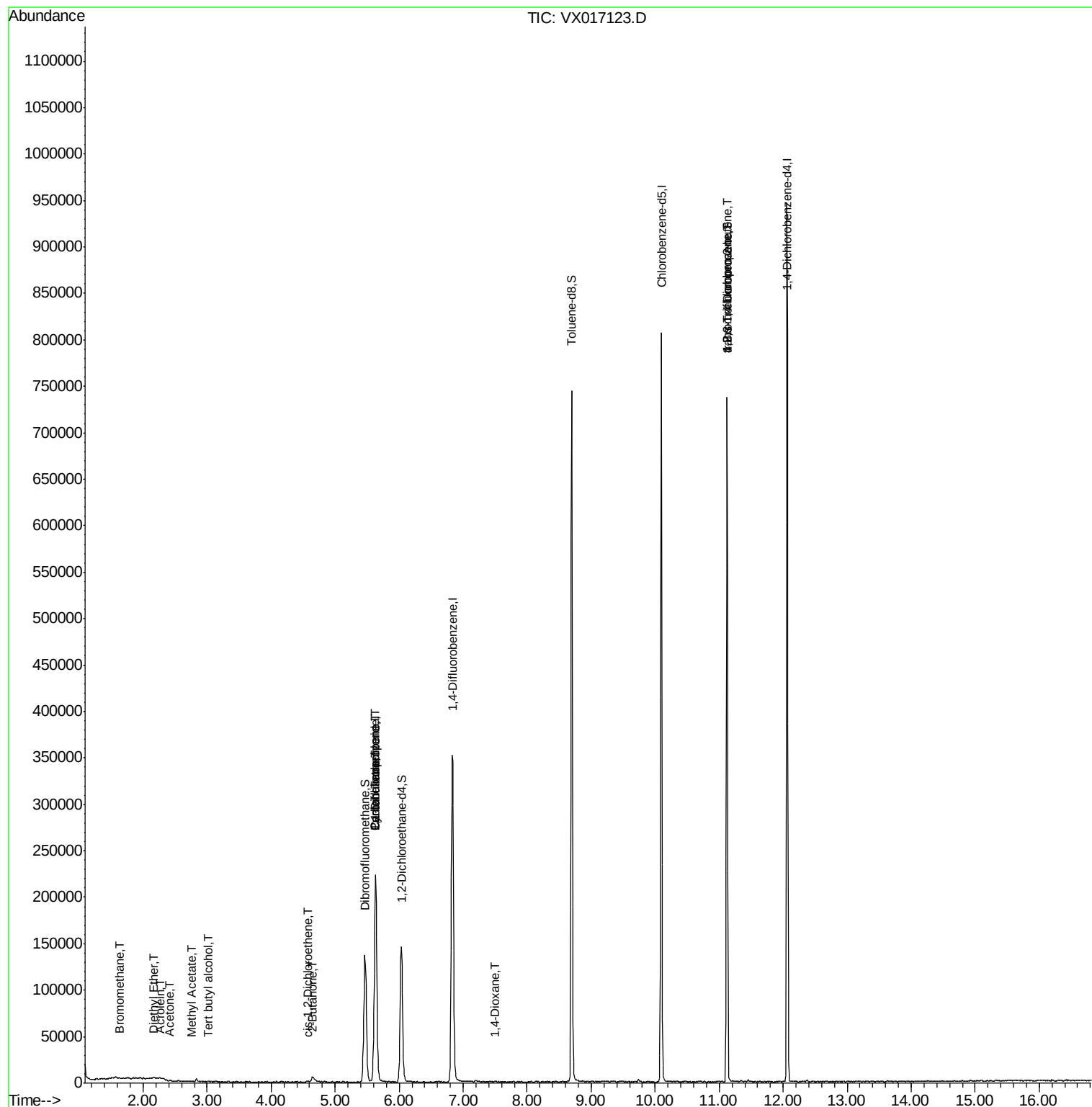
						Qvalue
5) Bromomethane	1.64	94	255	0.208	ug/l #	19
8) Diethyl Ether	2.17	74	316	0.637	ug/l	90
11) Tert butyl alcohol	3.01	59	218	0.433	ug/l #	73
13) Acrolein	2.28	56	135	0.449	ug/l #	15
16) Acetone	2.41	43	564	0.571	ug/l #	86
18) Methyl Acetate	2.75	43	612	0.238	ug/l #	51
20) Methylene Chloride	2.84	84	1232	Below Cal	#	84
25) 2-Butanone	4.65	43	687	0.418	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	568	0.213	ug/l	32
31) Cyclohexane	5.63	56	4439	1.246	ug/l #	15
36) 1,1-Dichloropropene	5.63	75	15598	4.541	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20957	5.539	ug/l #	17
44) Trichloroethene	7.19	130	195	Below Cal		94
49) 1,4-Dioxane	7.51	88	41	0.658	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	89366	23.310	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	89366	60.366	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	512	Below Cal	#	1

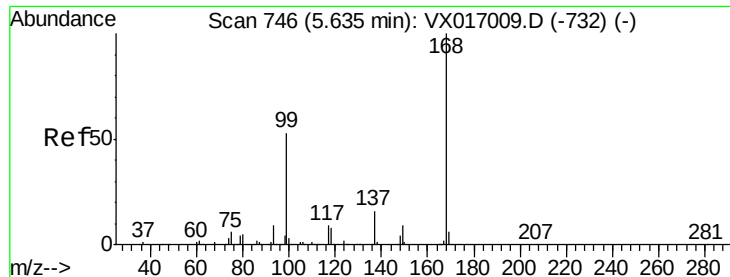
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

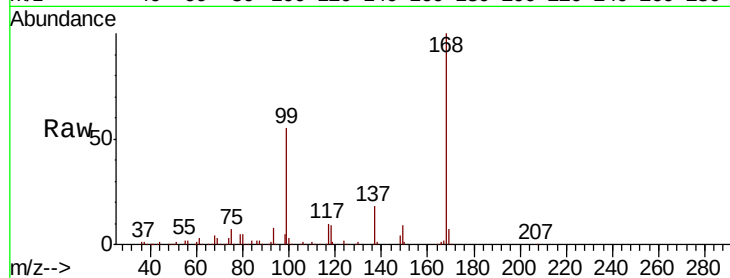
31BR-20200629

Tot Ion:168 Resp: 213995

Ion Ratio Lower Upper

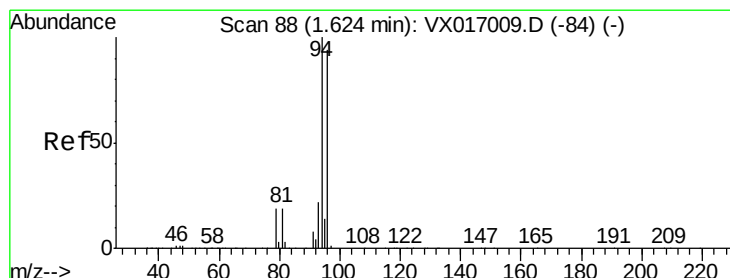
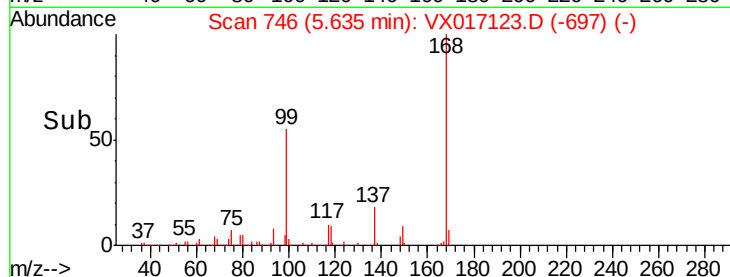
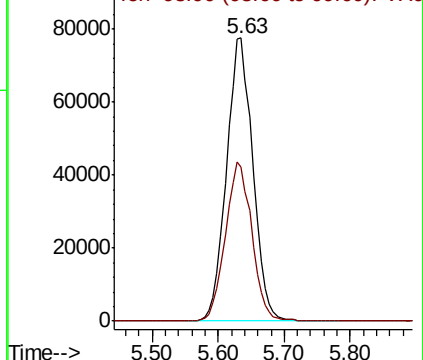
168 100

99 54.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017123.D

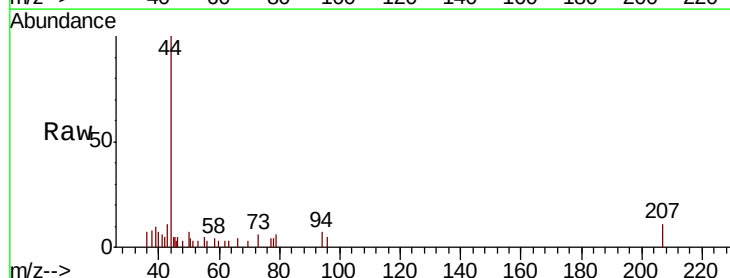
Acq: 02 Jul 2020 01:29

Tgt Ion: 94 Resp: 255

Ion Ratio Lower Upper

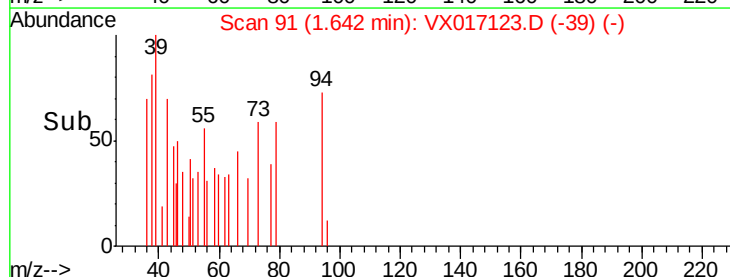
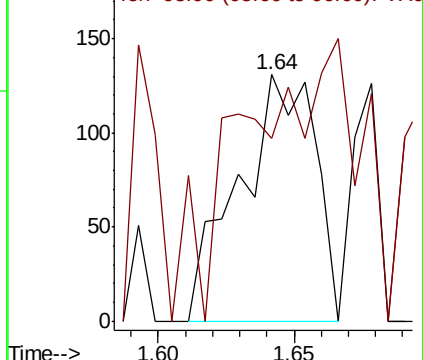
94 100

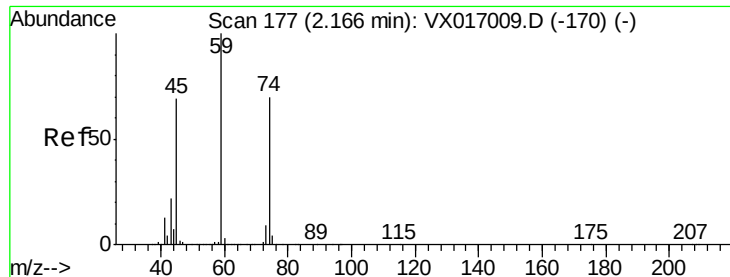
96 15.3 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.637 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

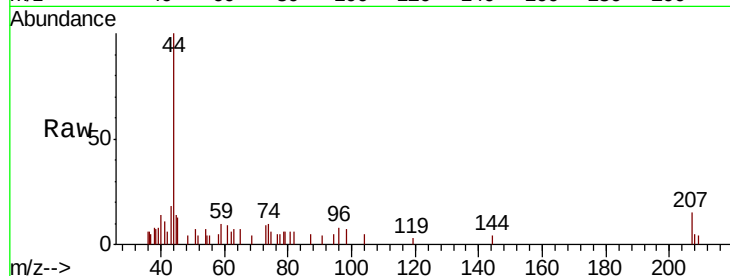
31BR-20200629

Tot Ion: 74 Resp: 316

Ion Ratio Lower Upper

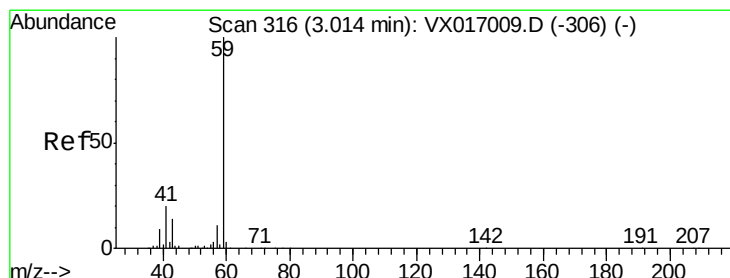
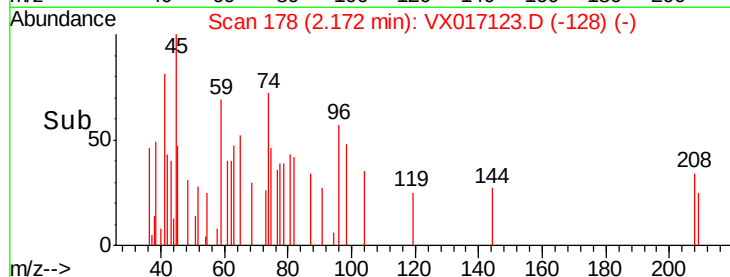
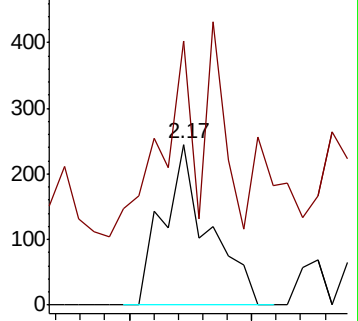
74 100

45 89.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.433 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX017123.D

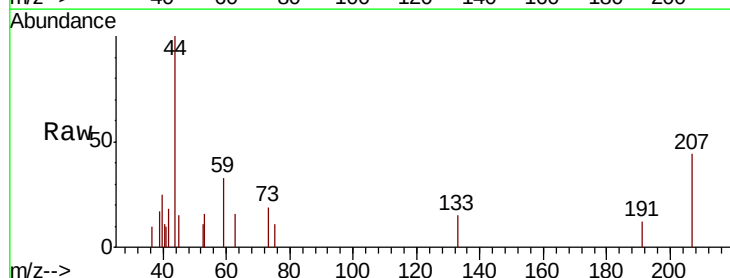
Acq: 02 Jul 2020 01:29

Tgt Ion: 59 Resp: 218

Ion Ratio Lower Upper

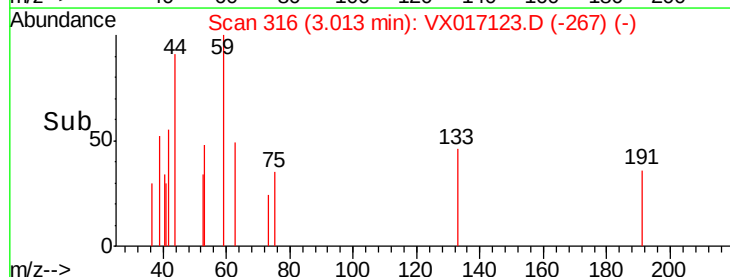
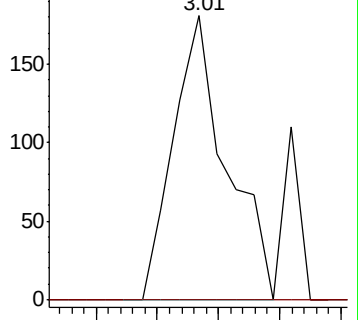
59 100

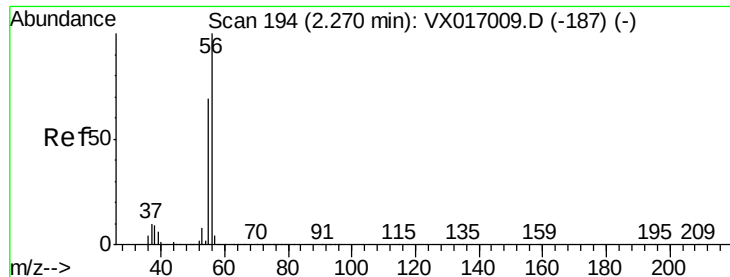
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

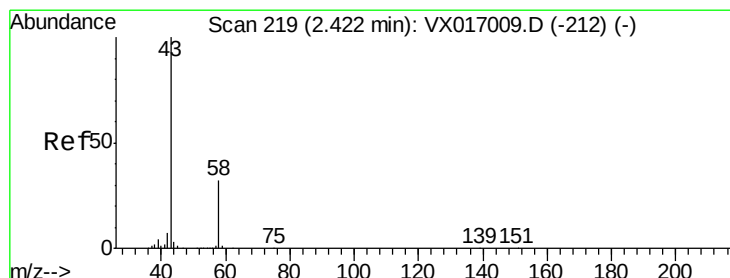
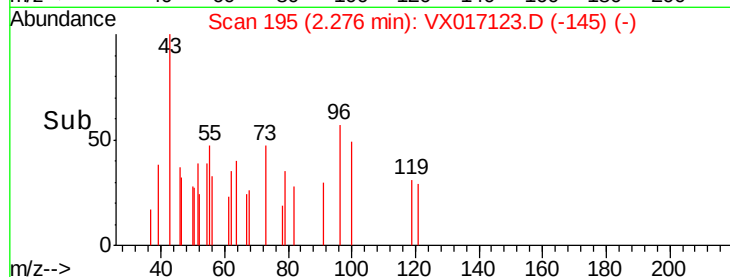
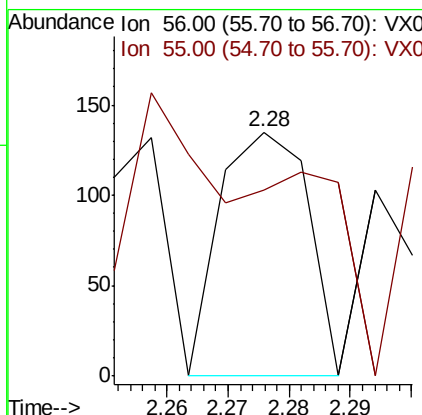
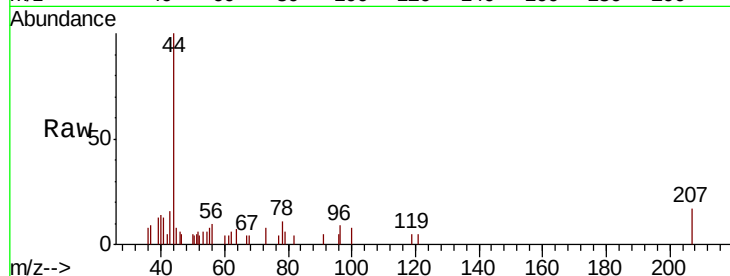




#13
Acrolein
Concen: 0.449 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

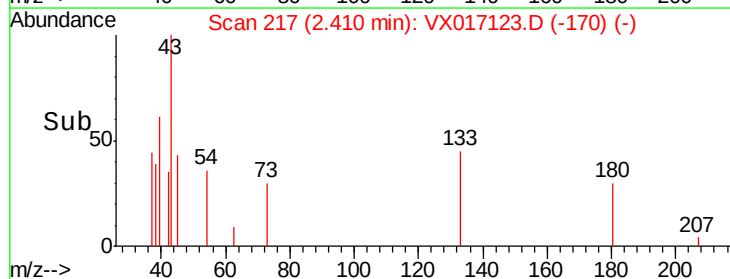
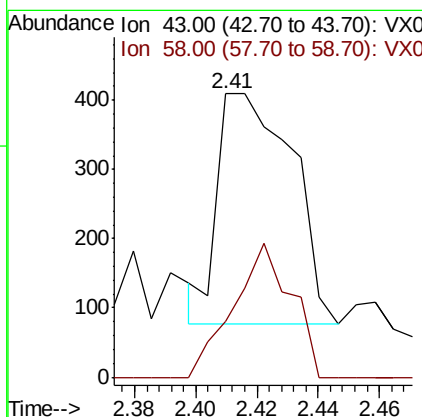
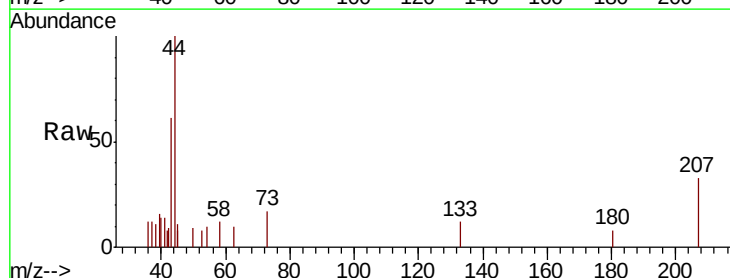
Instrument :
MSVOA_X
ClientSampleId :
31BR-20200629

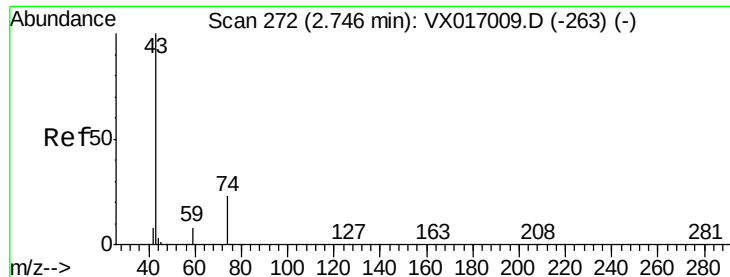
Tot Ion: 56 Resp: 135
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#



#16
Acetone
Concen: 0.571 ug/l
RT: 2.41 min Scan# 217
Delta R.T. -0.01 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

Tgt Ion: 43 Resp: 564
Ion Ratio Lower Upper
43 100
58 24.3 25.7 38.5#

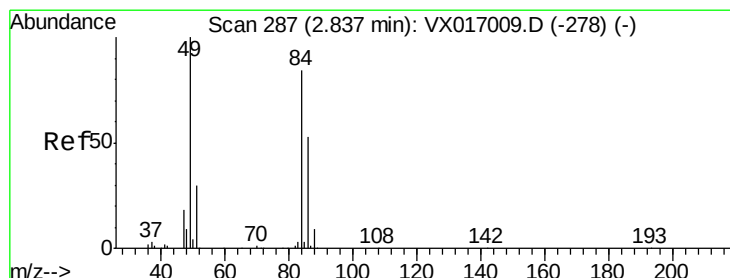
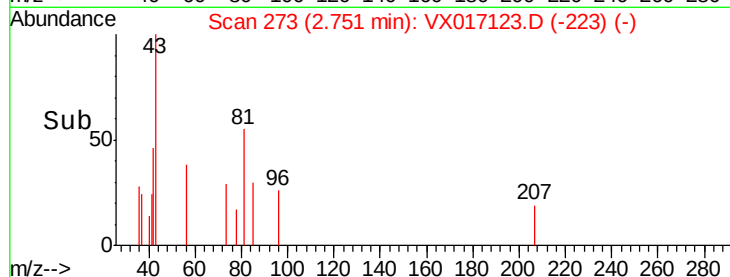
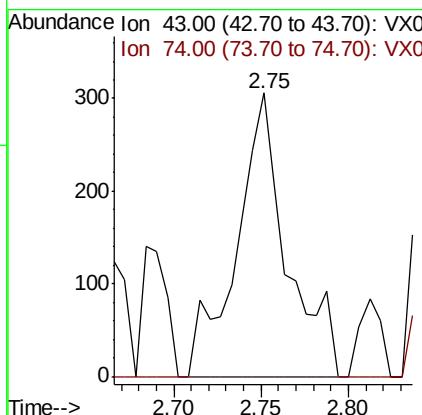
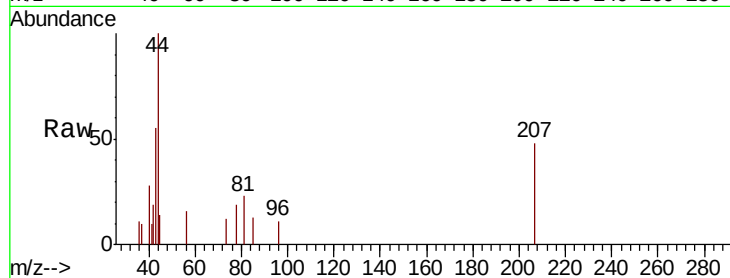




#18
Methyl Acetate
Concen: 0.238 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

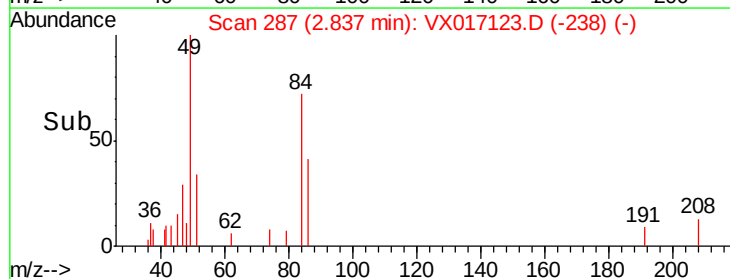
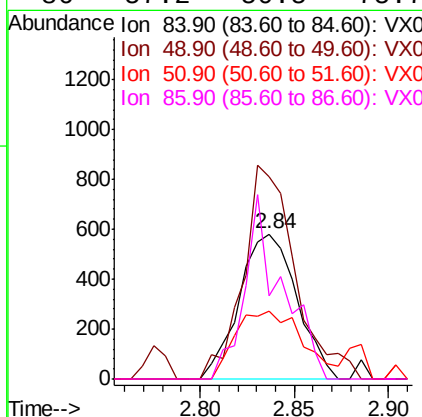
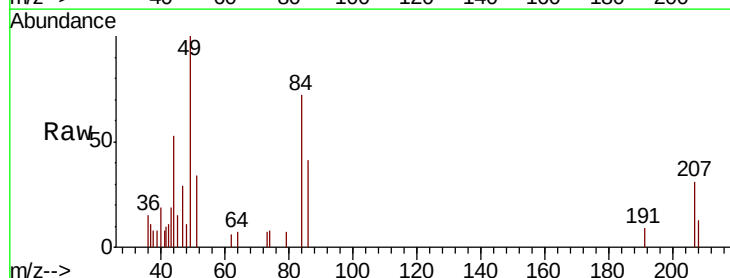
Instrument :
MSVOA_X
ClientSampleId :
31BR-20200629

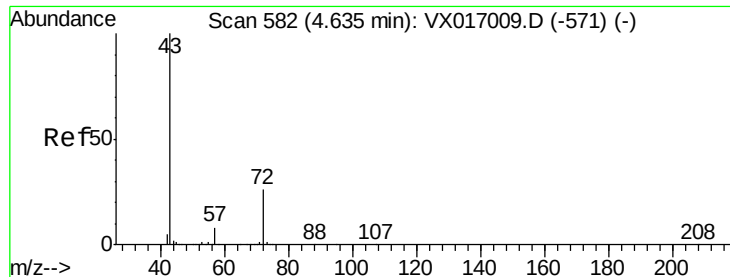
Tot Ion: 43 Resp: 612
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

Tgt Ion: 84 Resp: 1232
Ion Ratio Lower Upper
84 100
49 139.8 94.7 142.1
51 47.2 28.6 42.8#
86 57.2 50.5 75.7

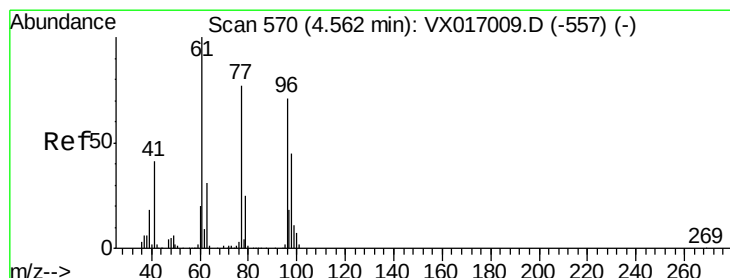
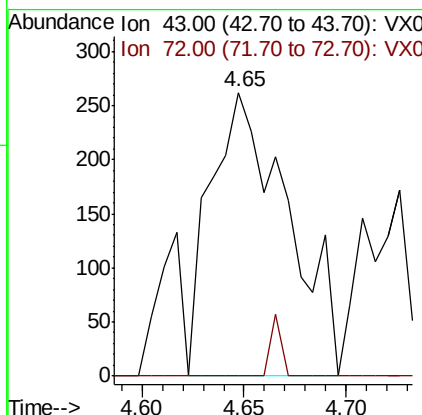
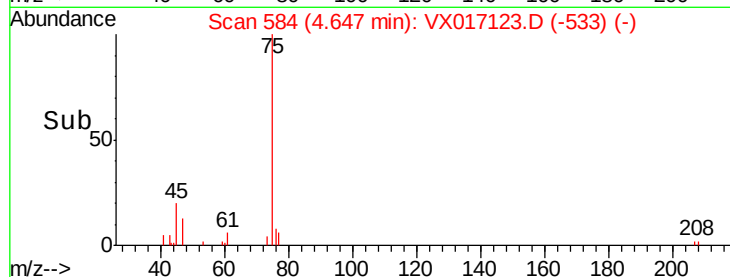
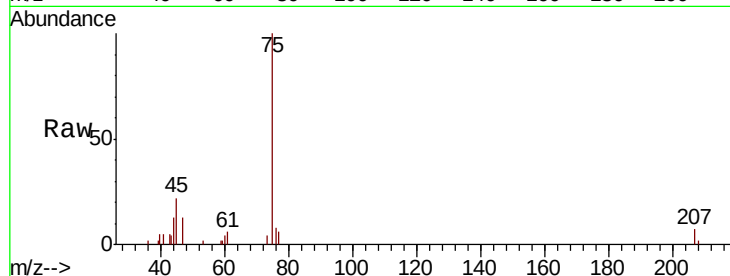




#25
2-Butanone
Concen: 0.418 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

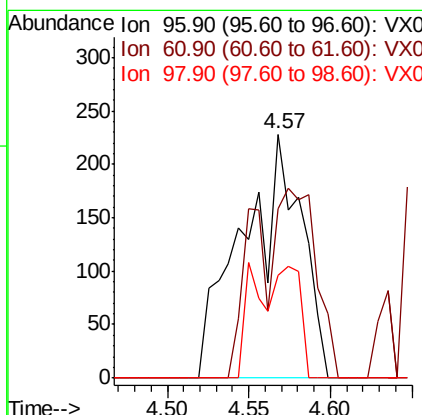
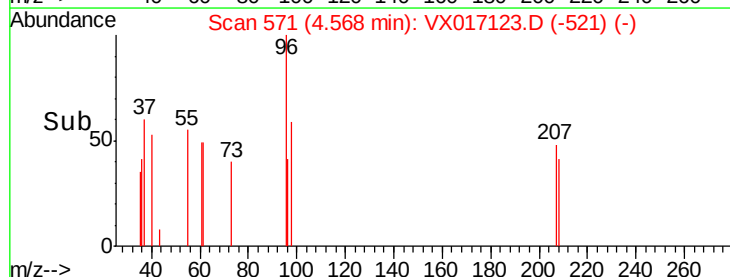
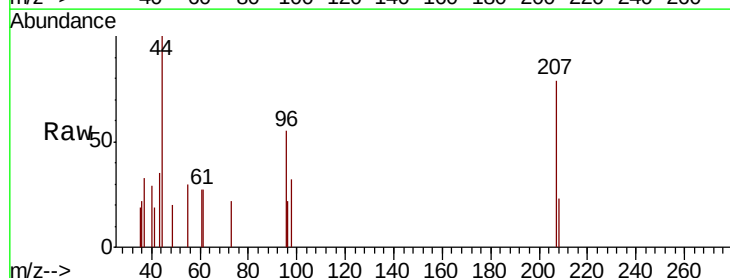
Instrument :
MSVOA_X
ClientSampleId :
31BR-20200629

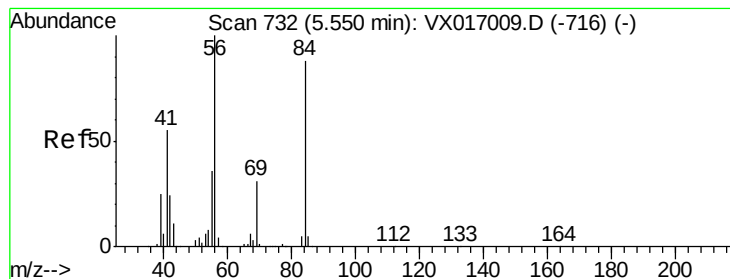
Tot Ion: 43 Resp: 687
Ion Ratio Lower Upper
43 100
72 0.0 20.8 31.2#



#27
cis-1,2-Dichloroethene
Concen: 0.213 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

Tgt Ion: 96 Resp: 568
Ion Ratio Lower Upper
96 100
61 52.8 0.0 282.8
98 19.4 0.0 127.6





#31

Cyclohexane

Concen: 1.246 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

31BR-20200629

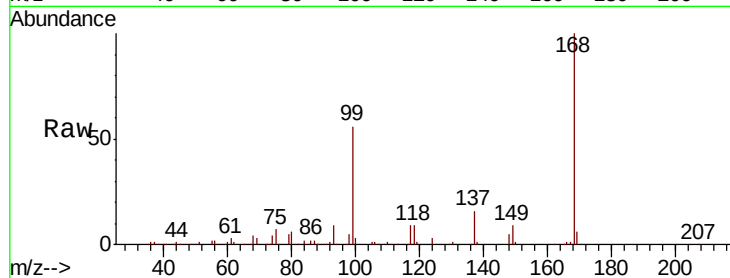
Tot Ion: 56 Resp: 4439

Ion Ratio Lower Upper

56 100

69 160.8 25.0 37.4#

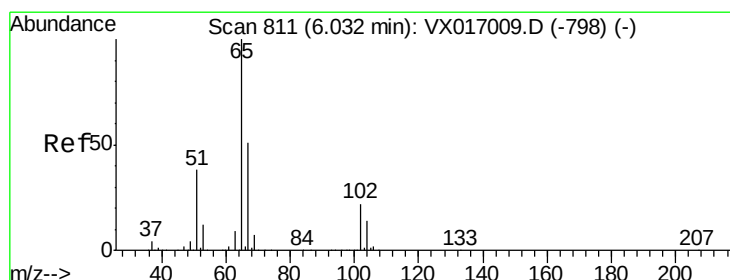
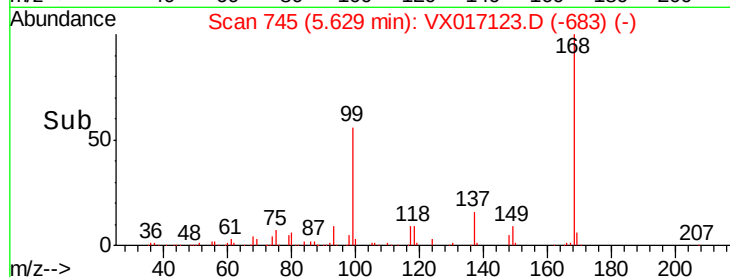
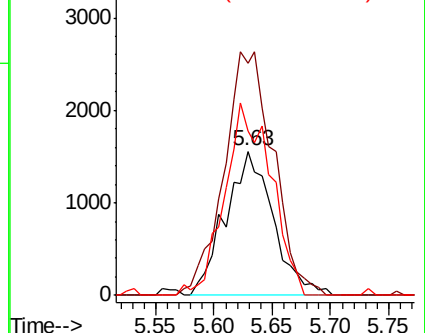
84 114.3 69.1 103.7#



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: 53.391 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017123.D

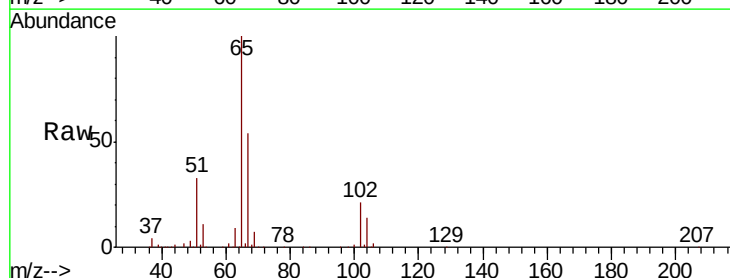
Acq: 02 Jul 2020 01:29

Tgt Ion: 65 Resp: 140853

Ion Ratio Lower Upper

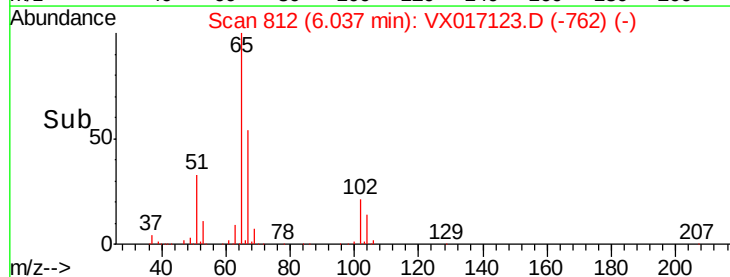
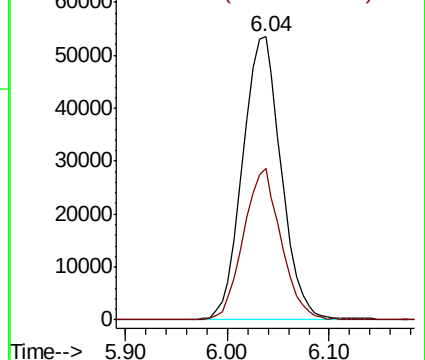
65 100

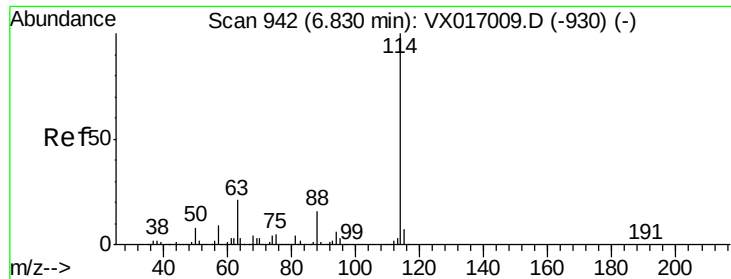
67 52.2 0.0 103.8



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: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

31BR-20200629

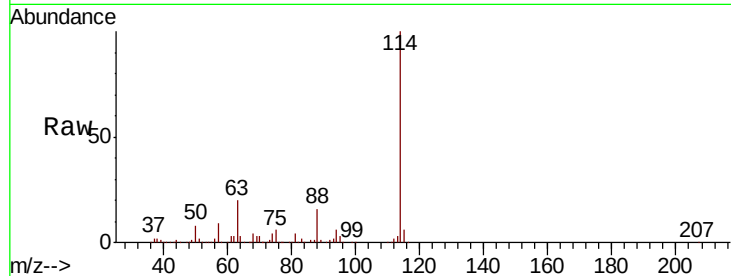
Tot Ion:114 Resp: 363454

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

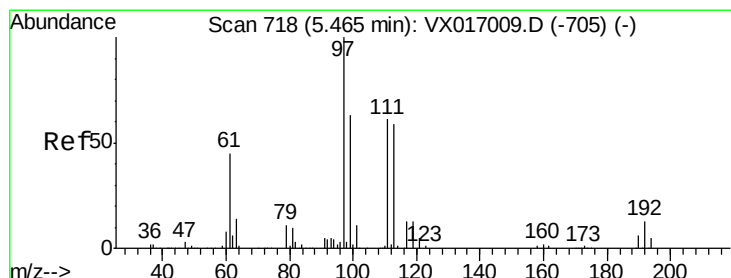
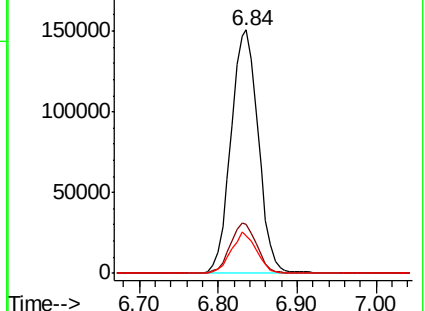
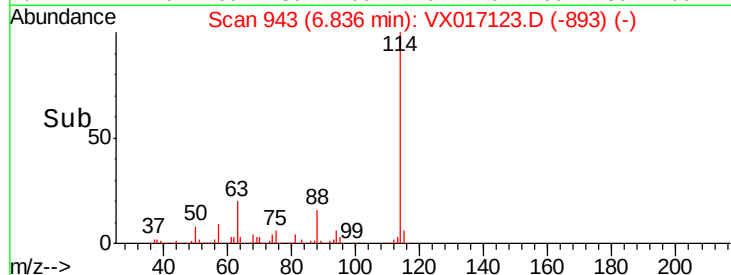
88 15.7 0.0 32.4



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: 52.126 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

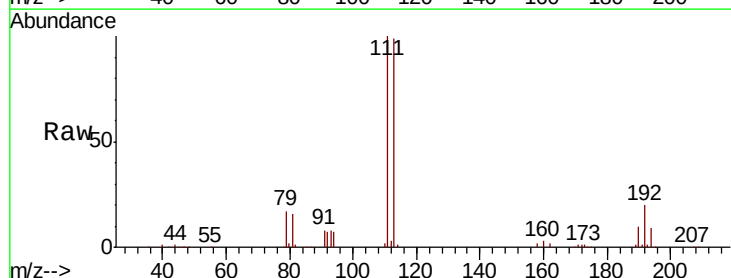
Tgt Ion:113 Resp: 119842

Ion Ratio Lower Upper

113 100

111 103.9 81.9 122.9

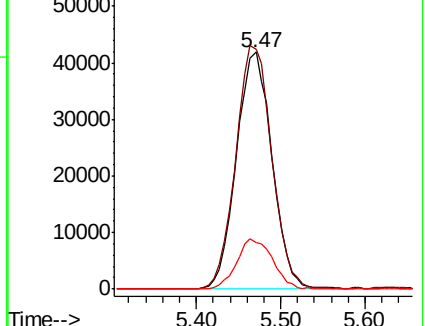
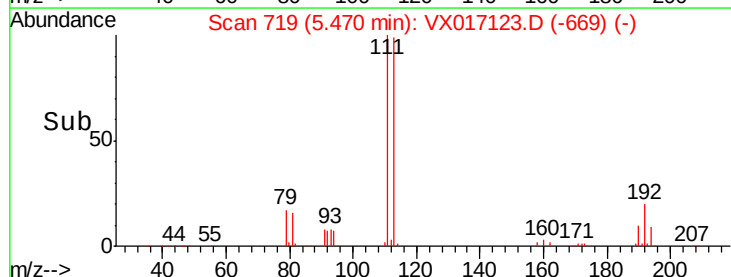
192 21.4 16.7 25.1

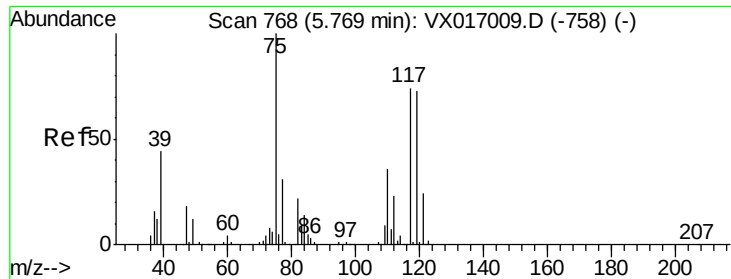


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.541 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

31BR-20200629

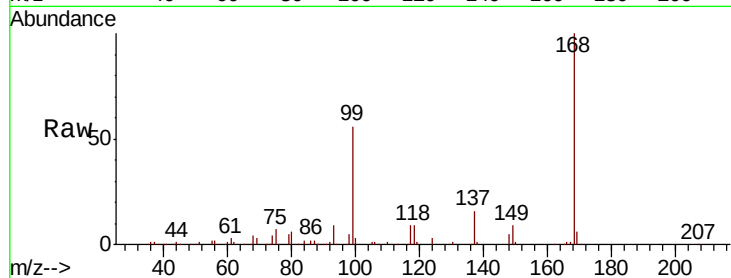
Tot Ion: 75 Resp: 15598

Ion Ratio Lower Upper

75 100

110 11.3 18.1 54.1#

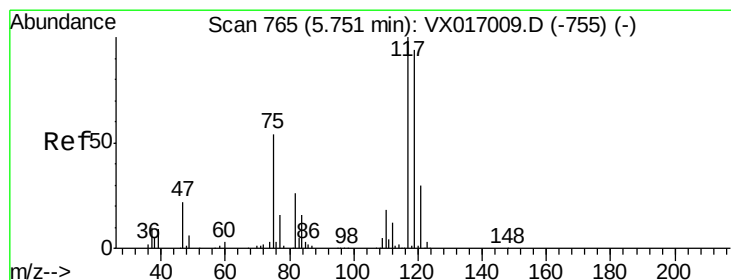
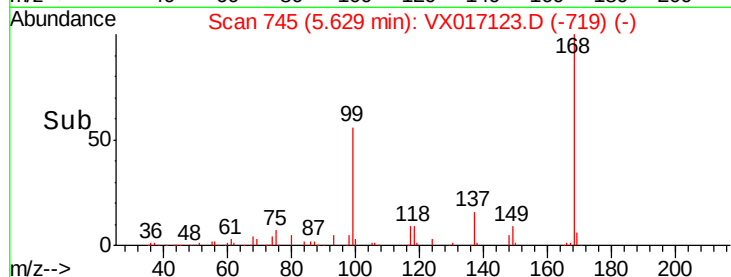
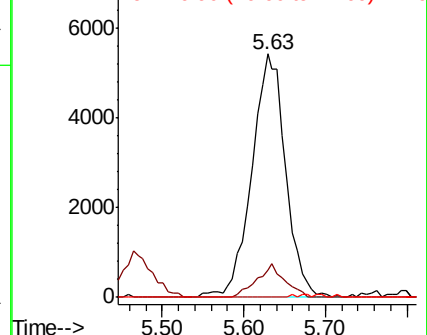
77 0.0 24.6 37.0#



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: 5.539 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

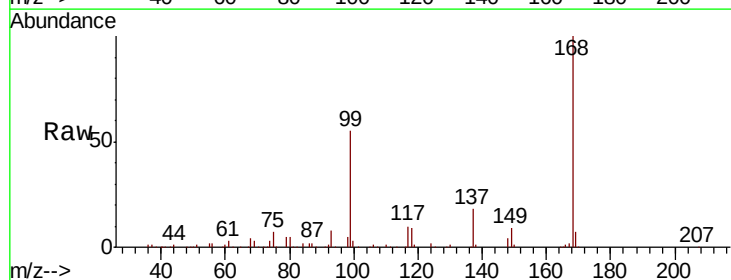
Tgt Ion: 117 Resp: 20957

Ion Ratio Lower Upper

117 100

119 5.7 75.4 113.0#

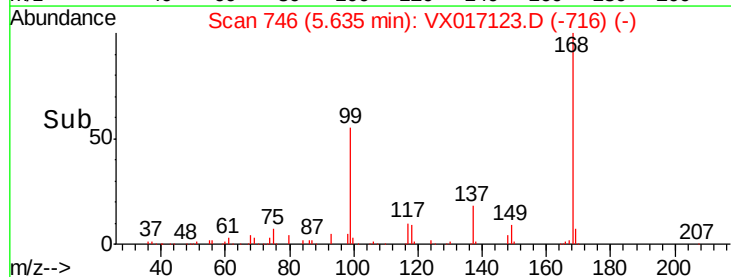
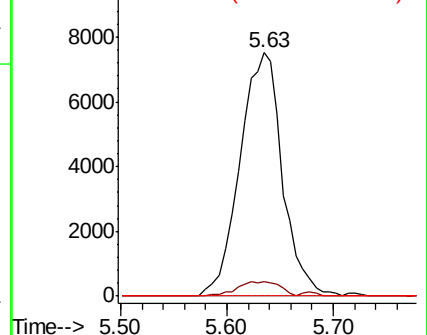
121 0.0 23.8 35.6#

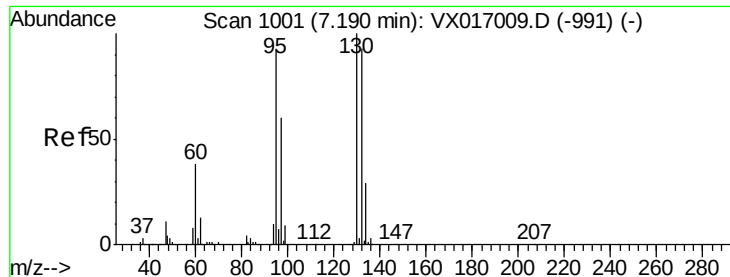


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

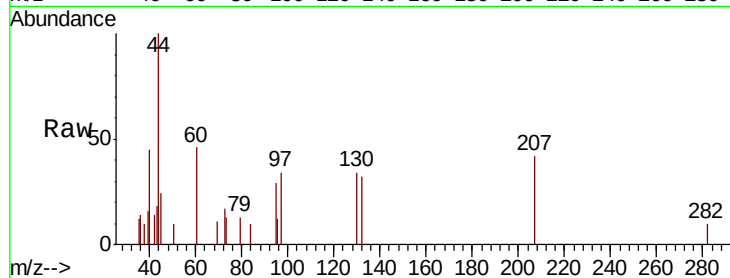
31BR-20200629

Tot Ion:130 Resp: 195

Ion Ratio Lower Upper

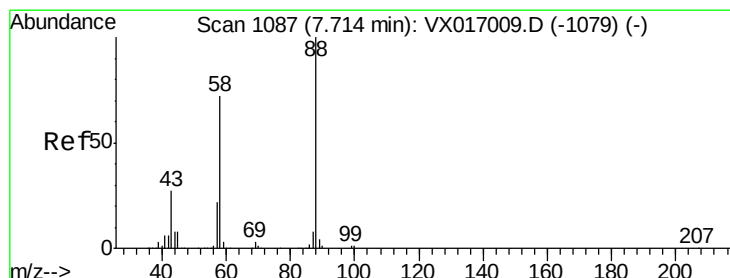
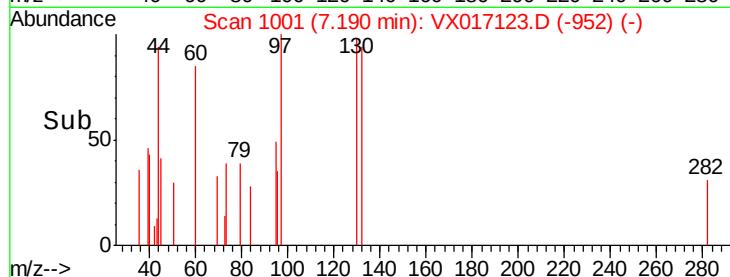
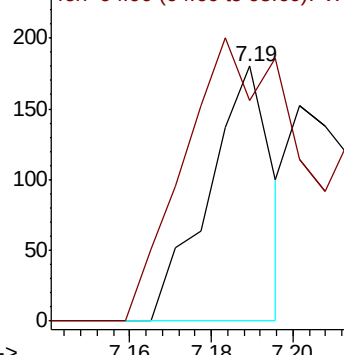
130 100

95 86.7 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.658 ug/l

RT: 7.51 min Scan# 1053

Delta R.T. -0.21 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

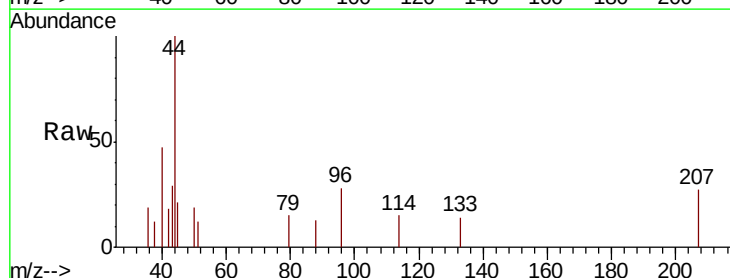
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 404.9 25.8 38.8#

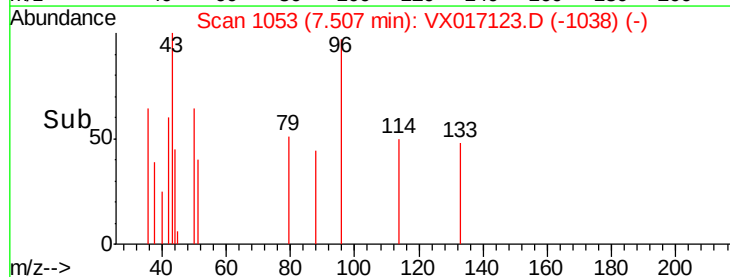
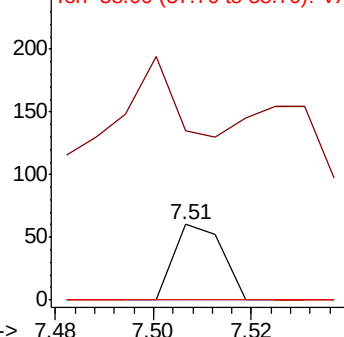
58 0.0 54.8 82.2#

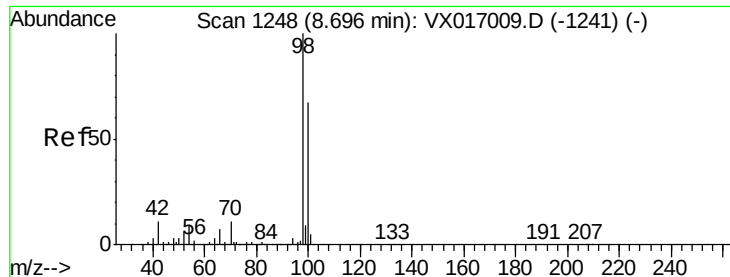


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.423 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

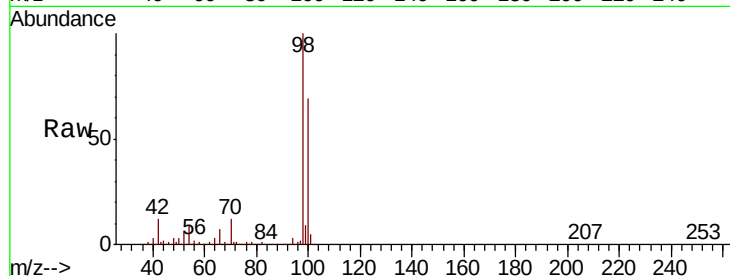
31BR-20200629

Tot Ion: 98 Resp: 437179

Ion Ratio Lower Upper

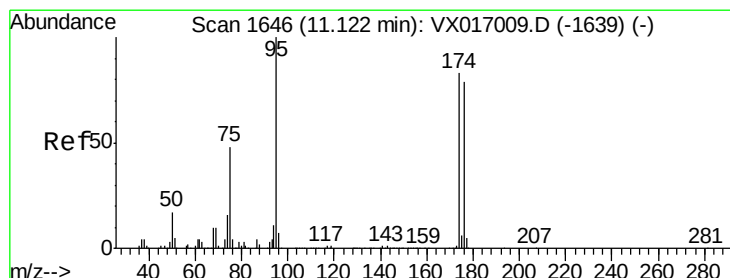
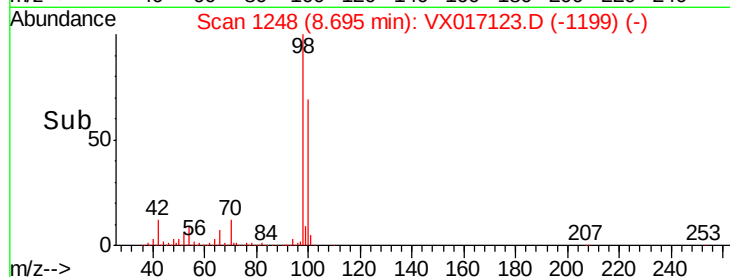
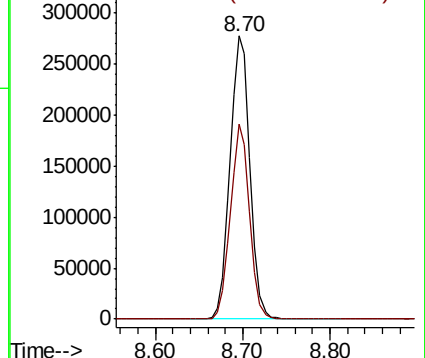
98 100

100 66.2 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 55.892 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

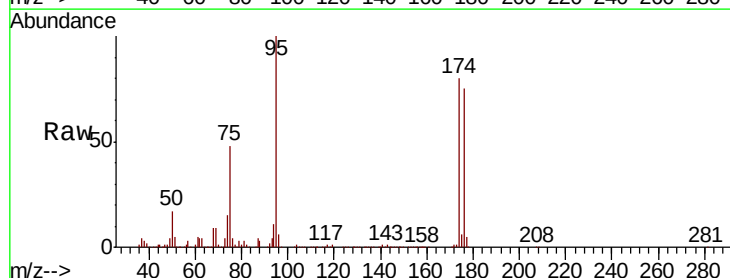
Tgt Ion: 95 Resp: 185749

Ion Ratio Lower Upper

95 100

174 83.5 0.0 164.0

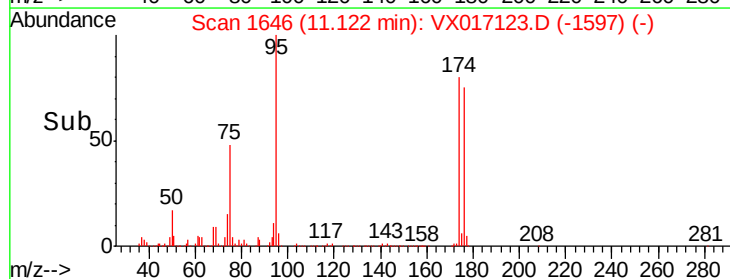
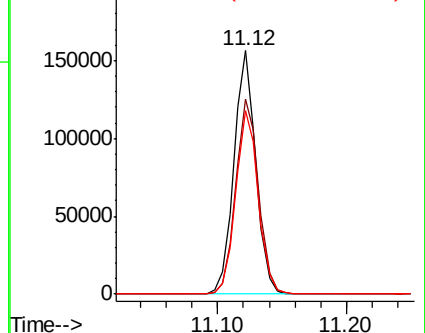
176 77.7 0.0 157.6

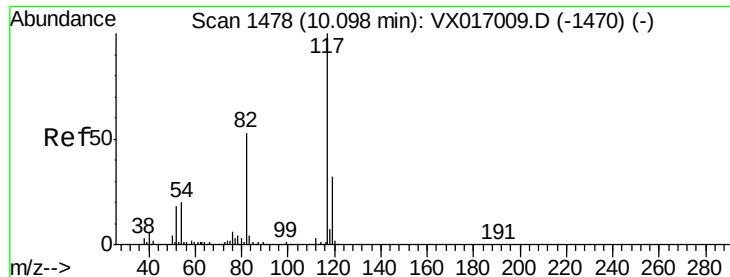


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

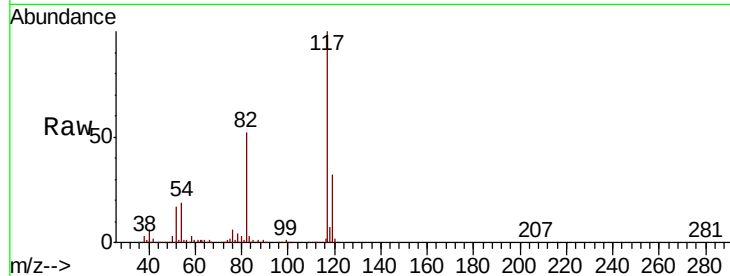




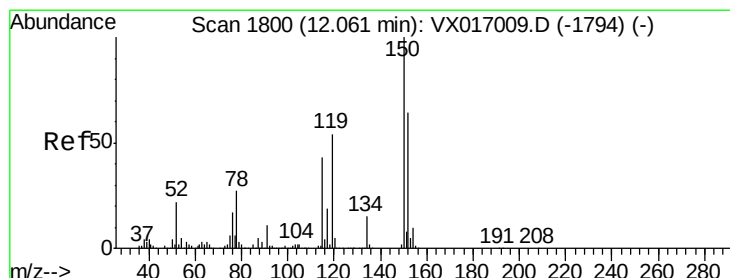
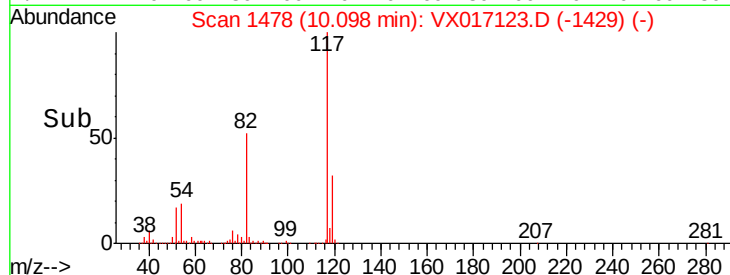
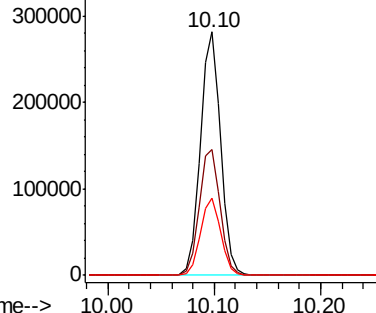
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

Instrument :
MSVOA_X
ClientSampleId :
31BR-20200629

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.5	42.6	63.8
119	31.7	25.4	38.2

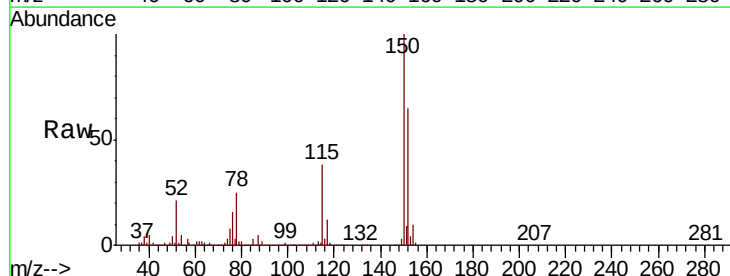


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

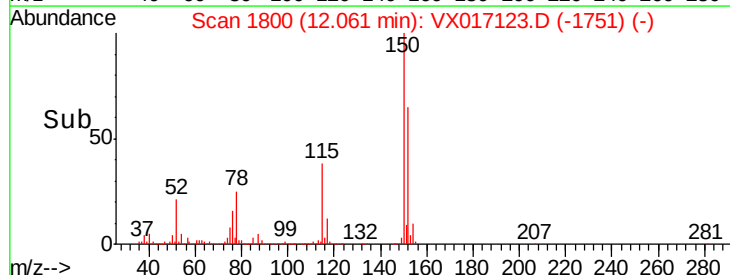
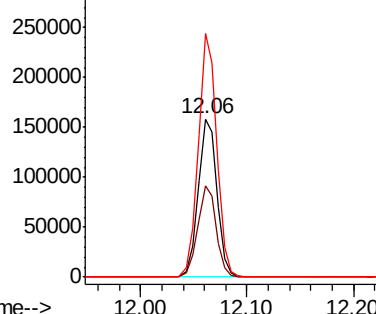


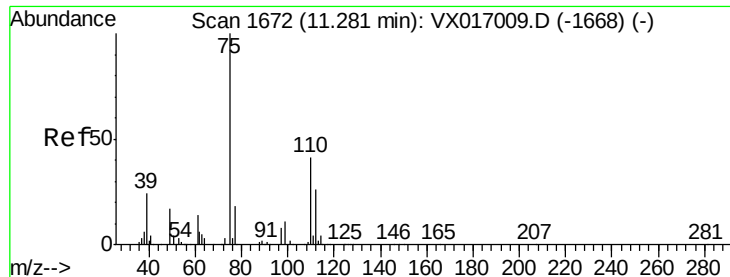
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017123.D
Acq: 02 Jul 2020 01:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.1	40.9	122.7
150	151.0	0.0	351.6



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: 23.310 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

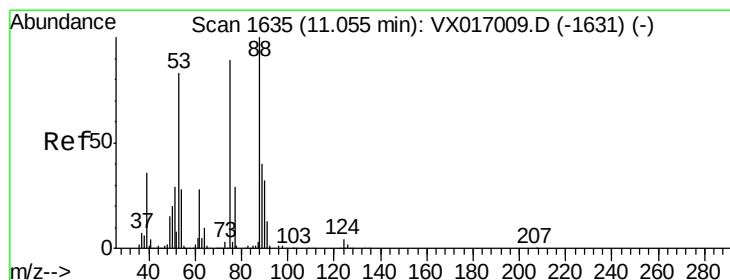
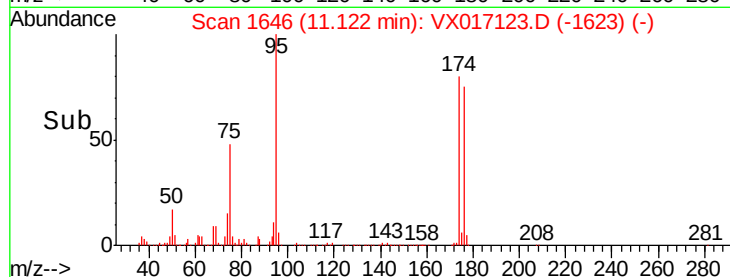
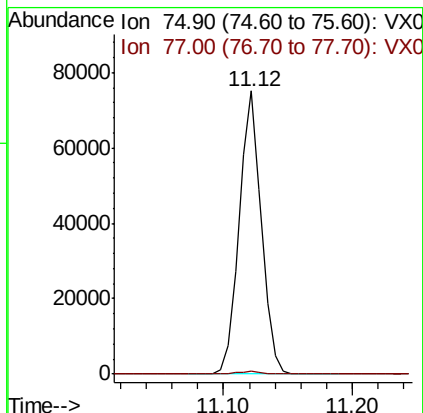
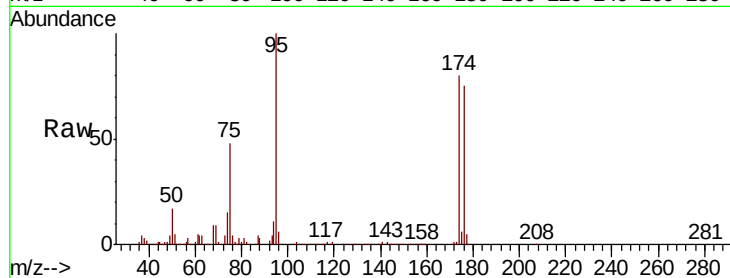
31BR-20200629

Tot Ion: 75 Resp: 89366

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.366 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017123.D

Acq: 02 Jul 2020 01:29

Tgt Ion: 75 Resp: 89366

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#

