

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\
 Data File : VX017045.D
 Acq On : 30 Jun 2020 15:16
 Operator : JC/SP
 Sample : L3112-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 61BR-20200624

Quant Time: Jul 01 08:06:28 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	237345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	406981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	415022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	223754	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	154965	52.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.92%	
35) Dibromofluoromethane	5.46	113	132494	51.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.94%	
50) Toluene-d8	8.70	98	486693	51.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.12	95	208131	55.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.86%	

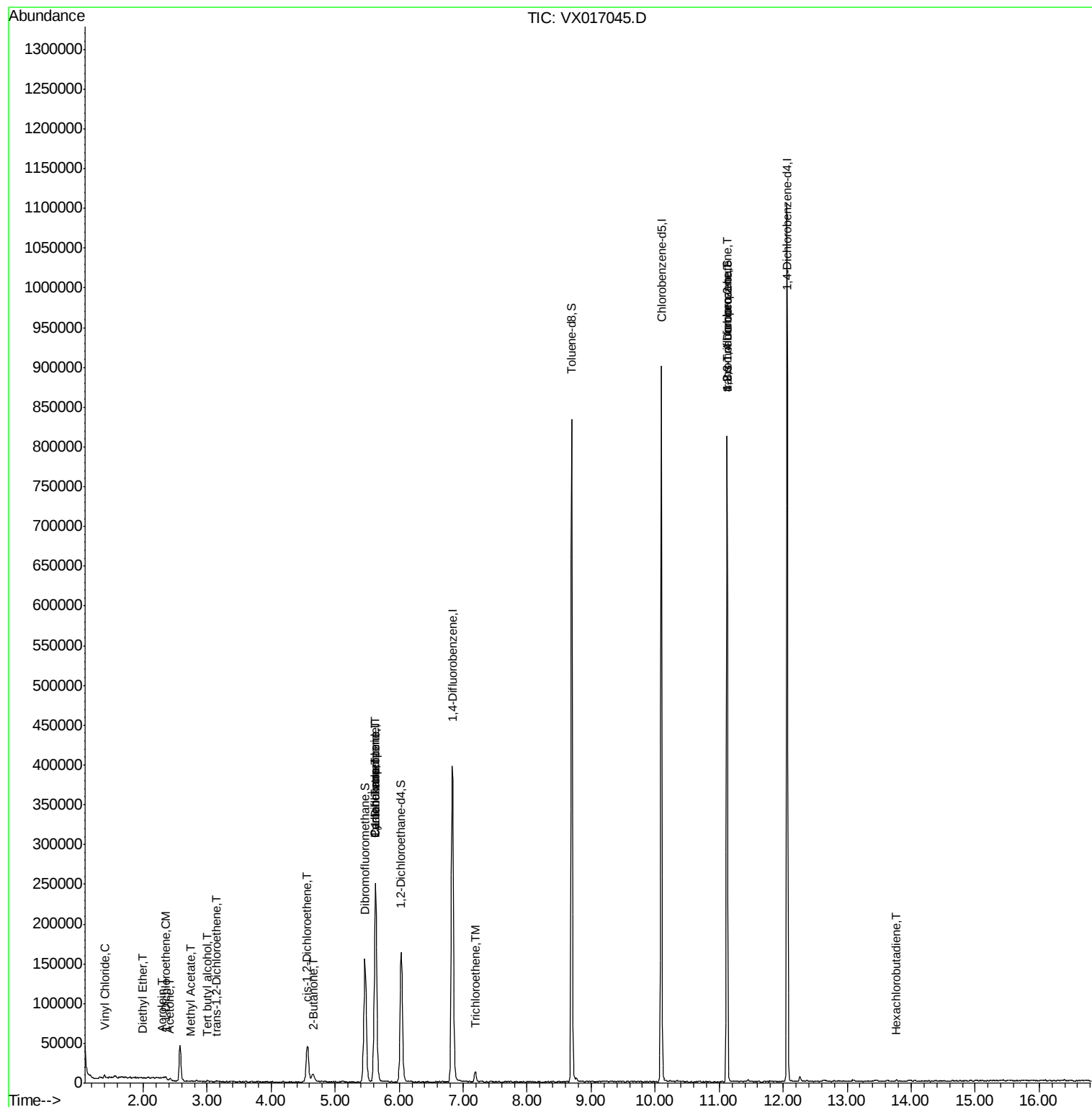
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	2160	0.838	ug/l	97
8) Diethyl Ether	2.00	74	167	0.495	ug/l	79
11) Tert butyl alcohol	3.01	59	978	1.752	ug/l #	93
12) 1,1-Dichloroethene	2.36	96	675	0.287	ug/l #	68
13) Acrolein	2.29	56	231	0.692	ug/l #	2
16) Acetone	2.42	43	3958	3.616	ug/l	90
18) Methyl Acetate	2.75	43	805	0.282	ug/l #	57
20) Methylene Chloride	2.83	84	658	Below Cal	#	84
21) trans-1,2-Dichloroethene	3.15	96	591	0.227	ug/l #	80
25) 2-Butanone	4.65	43	1062	0.582	ug/l #	49
27) cis-1,2-Dichloroethene	4.57	96	30568	10.353	ug/l	88
31) Cyclohexane	5.63	56	4870	1.233	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	16705	4.343	ug/l #	51
38) Carbon Tetrachloride	5.63	117	23220	5.481	ug/l #	18
44) Trichloroethene	7.18	130	5257	1.385	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	102640	23.327	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	102640	60.409	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	265	Below Cal		84
94) Hexachlorobutadiene	13.76	225	19	0.855	ug/l #	17

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

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ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :
61BR-20200624

Quant Time: Jul 01 08:06:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

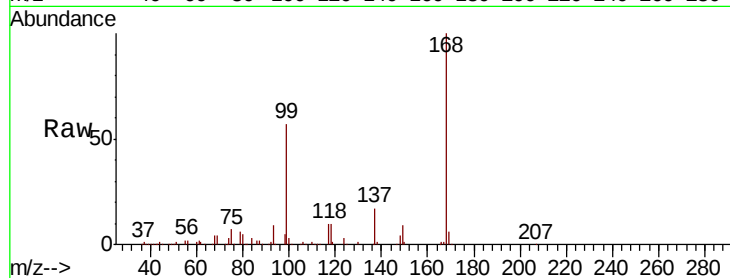
61BR-20200624

Tot Ion:168 Resp: 237345

Ion Ratio Lower Upper

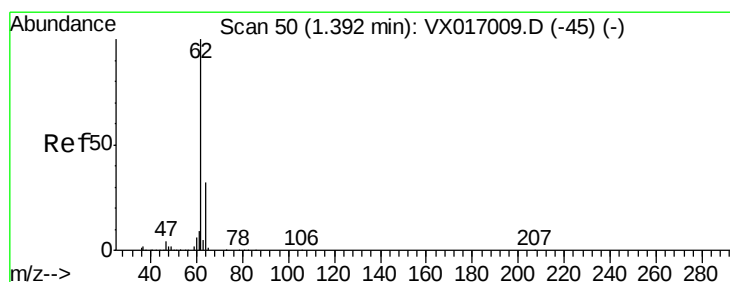
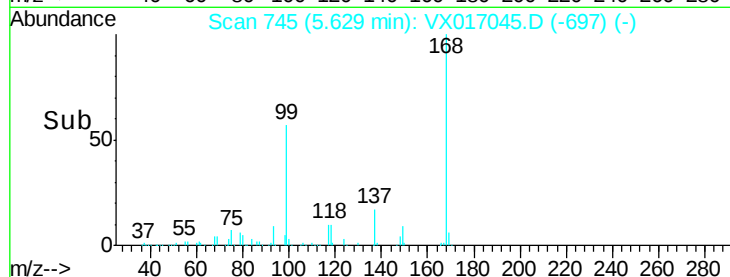
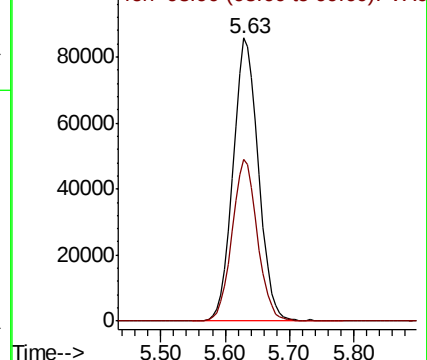
168 100

99 57.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.838 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017045.D

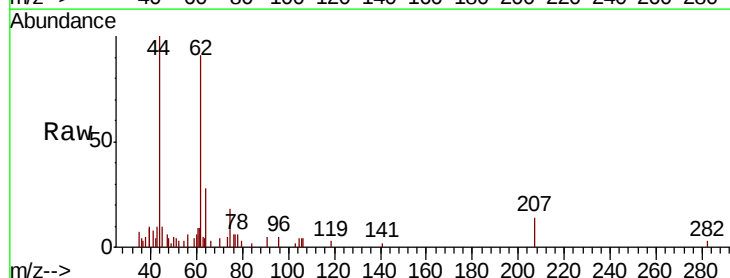
Acq: 30 Jun 2020 15:16

Tgt Ion: 62 Resp: 2160

Ion Ratio Lower Upper

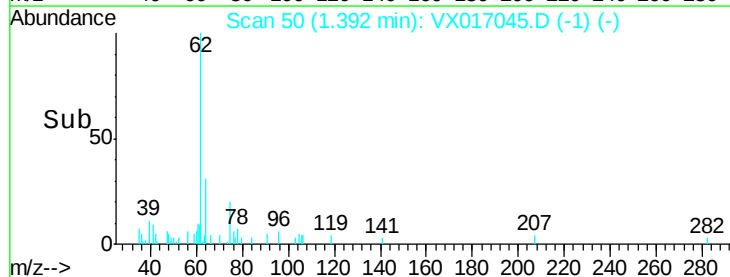
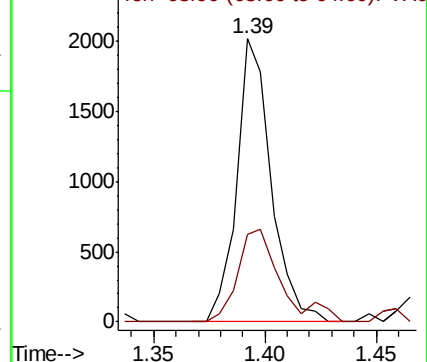
62 100

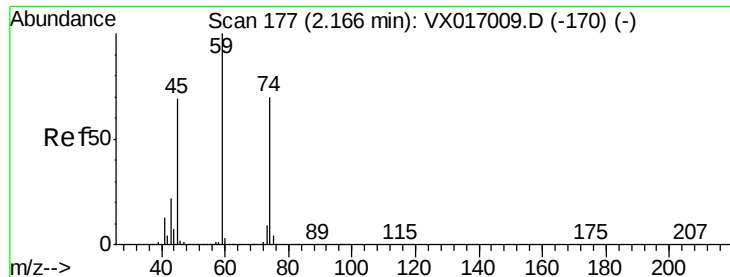
64 30.9 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 0.495 ug/l

RT: 2.00 min Scan# 149

Delta R.T. -0.17 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

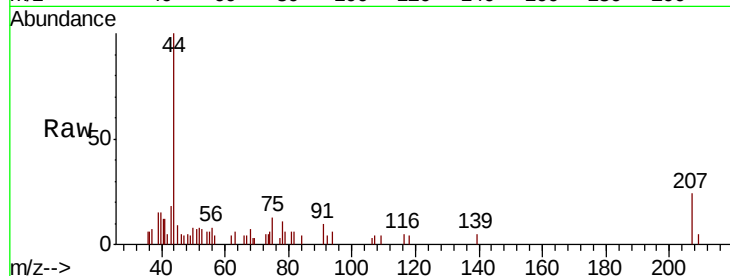
61BR-20200624

Tot Ion: 74 Resp: 167

Ion Ratio Lower Upper

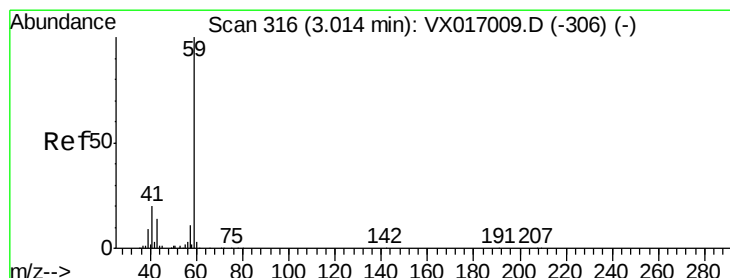
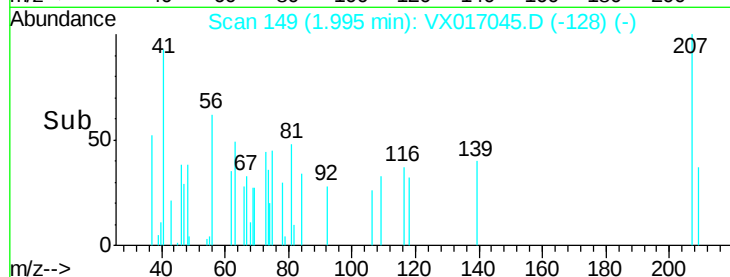
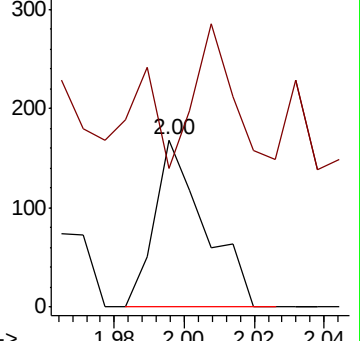
74 100

45 79.0 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: 1.752 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017045.D

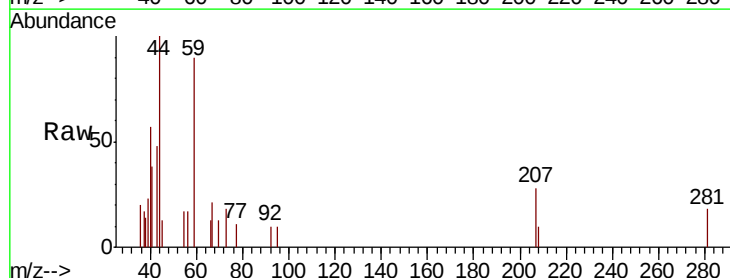
Acq: 30 Jun 2020 15:16

Tgt Ion: 59 Resp: 978

Ion Ratio Lower Upper

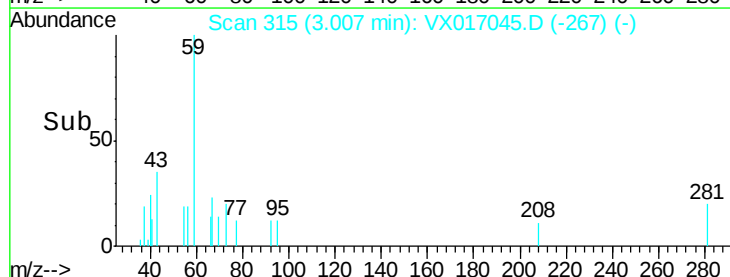
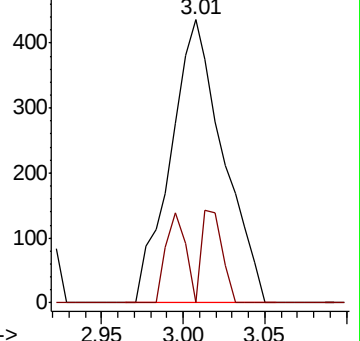
59 100

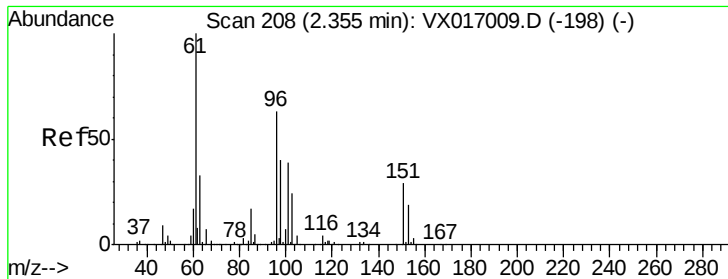
57 12.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.287 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

61BR-20200624

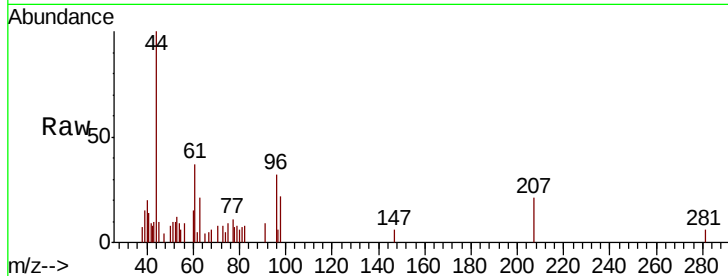
Tot Ion: 96 Resp: 675

Ion Ratio Lower Upper

96 100

61 103.2 126.3 189.5#

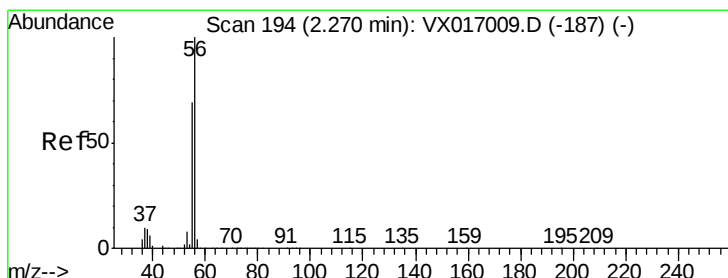
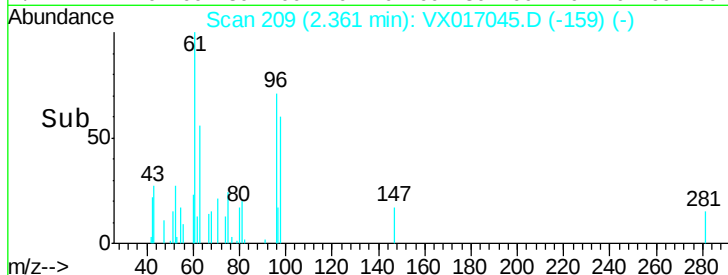
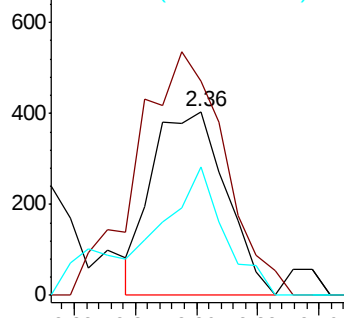
98 70.1 51.0 76.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.692 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX017045.D

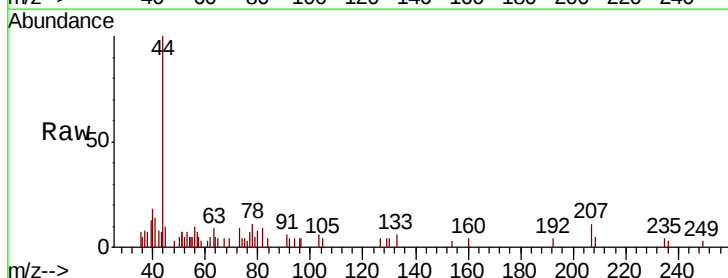
Acq: 30 Jun 2020 15:16

Tgt Ion: 56 Resp: 231

Ion Ratio Lower Upper

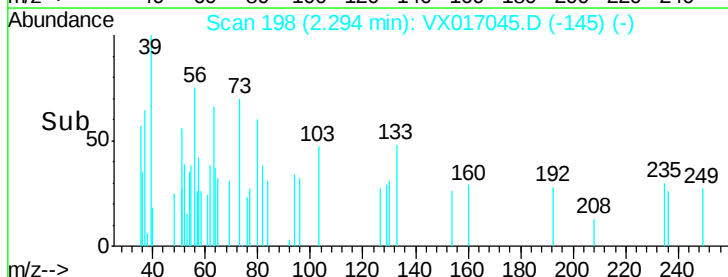
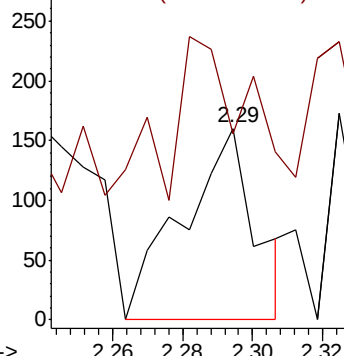
56 100

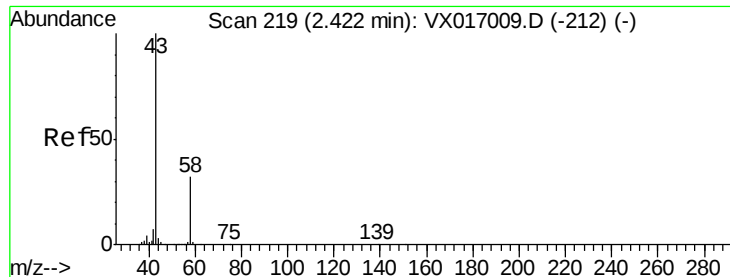
55 149.8 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 3.616 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

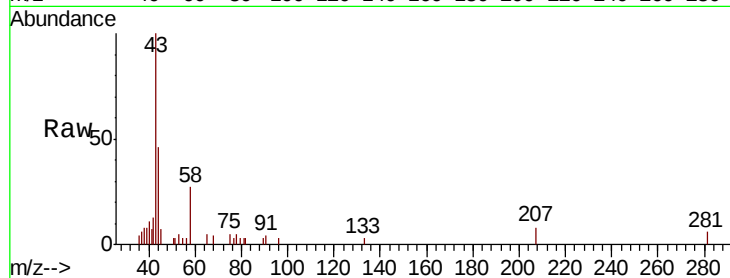
61BR-20200624

Tot Ion: 43 Resp: 3958

Ion Ratio Lower Upper

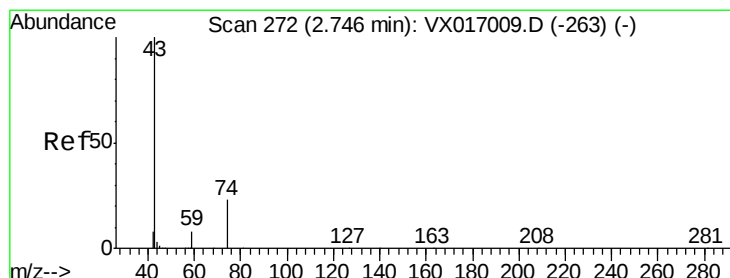
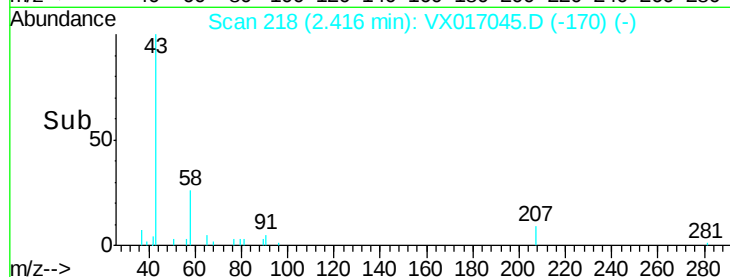
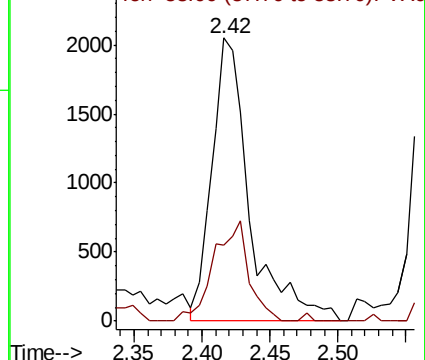
43 100

58 26.7 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.282 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX017045.D

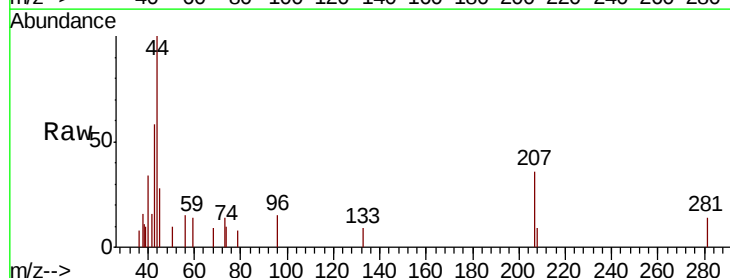
Acq: 30 Jun 2020 15:16

Tgt Ion: 43 Resp: 805

Ion Ratio Lower Upper

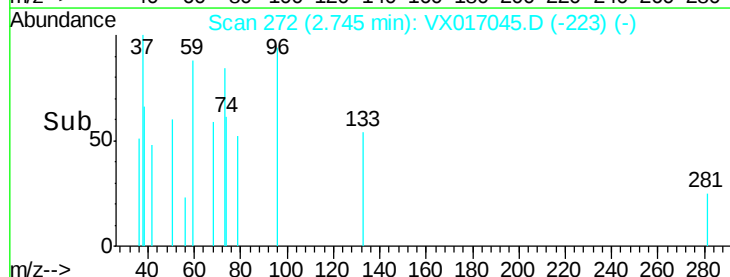
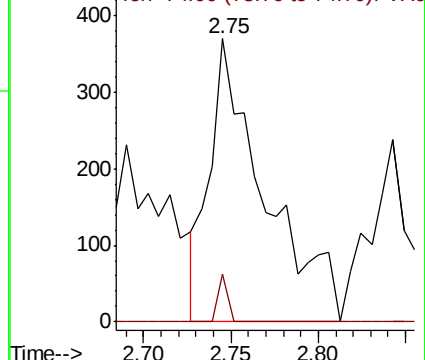
43 100

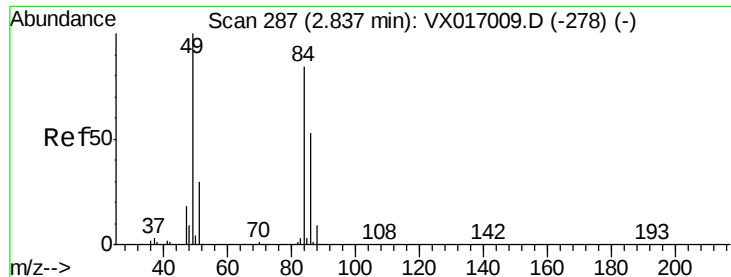
74 2.9 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

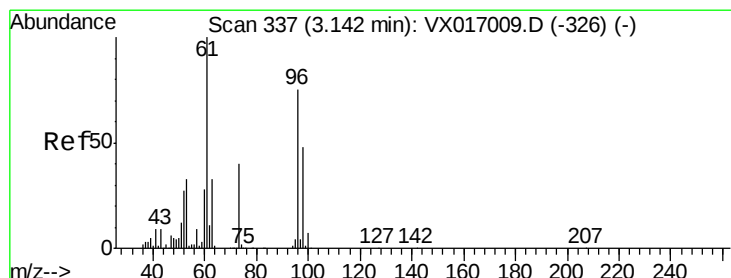
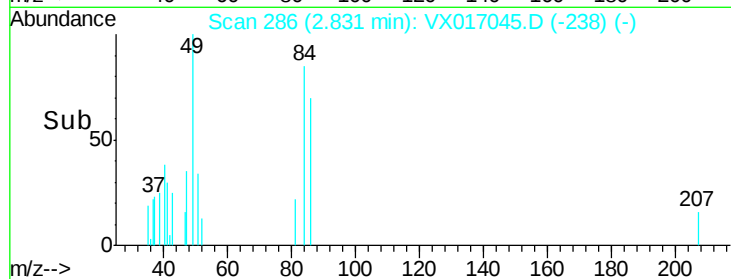
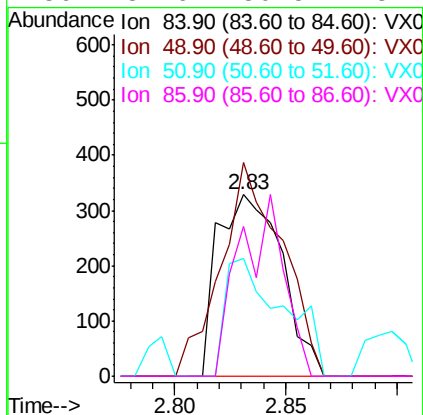
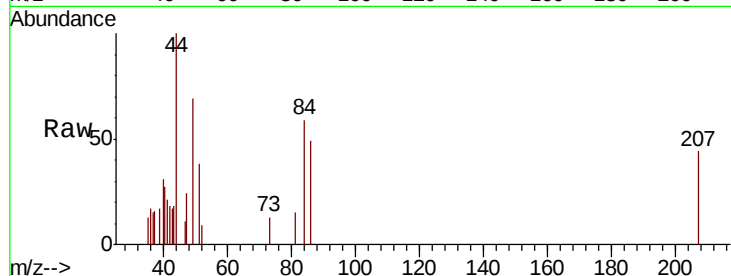




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017045.D
Acq: 30 Jun 2020 15:16

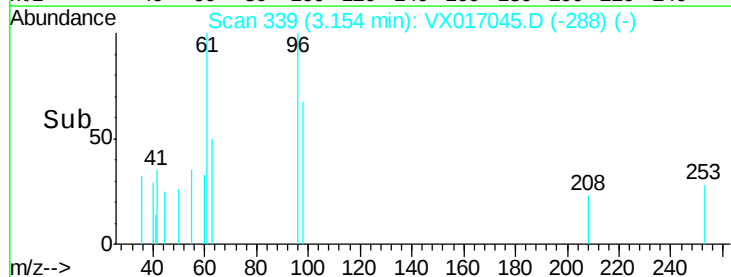
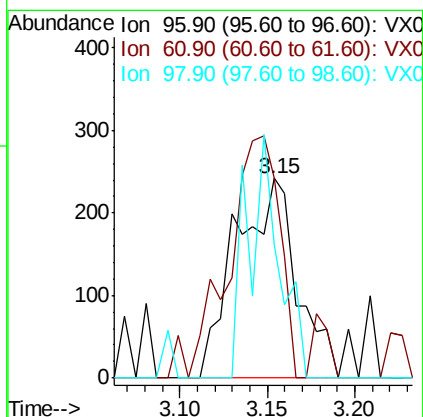
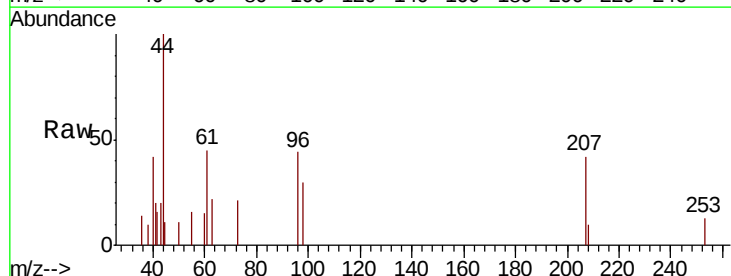
Instrument :
MSVOA_X
ClientSampleId :
61BR-20200624

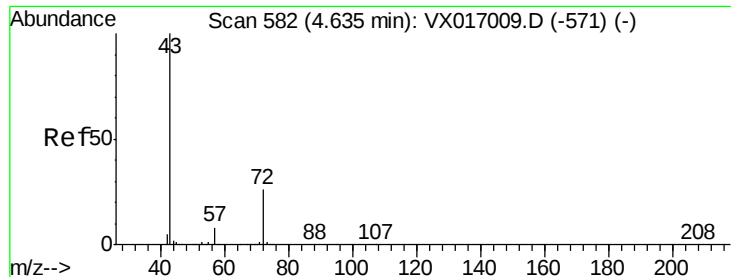
Tot Ion: 84 Resp: 658
Ion Ratio Lower Upper
84 100
49 118.0 94.7 142.1
51 64.9 28.6 42.8#
86 82.6 50.5 75.7#



#21
trans-1,2-Dichloroethene
Concen: 0.227 ug/l
RT: 3.15 min Scan# 339
Delta R.T. 0.01 min
Lab File: VX017045.D
Acq: 30 Jun 2020 15:16

Tgt Ion: 96 Resp: 591
Ion Ratio Lower Upper
96 100
61 100.4 107.0 160.6#
98 66.9 51.6 77.4





#25

2-Butanone

Concen: 0.582 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

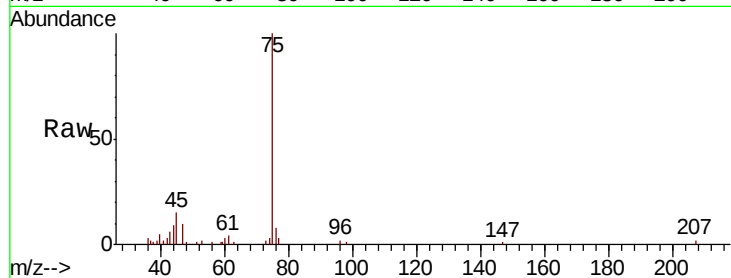
61BR-20200624

Tot Ion: 43 Resp: 1062

Ion Ratio Lower Upper

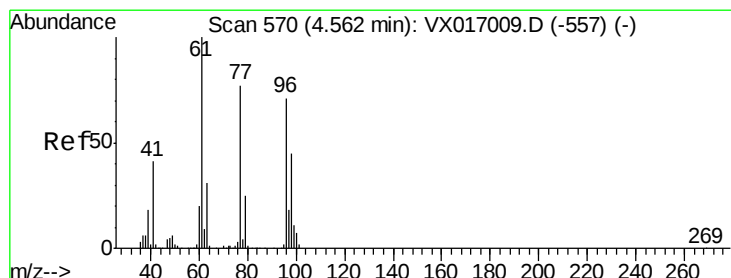
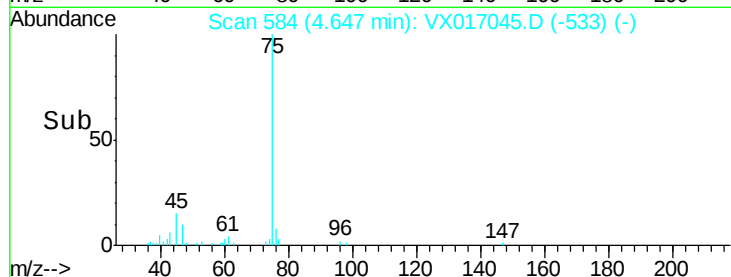
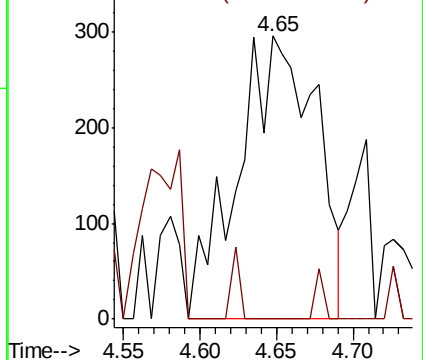
43 100

72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 10.353 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

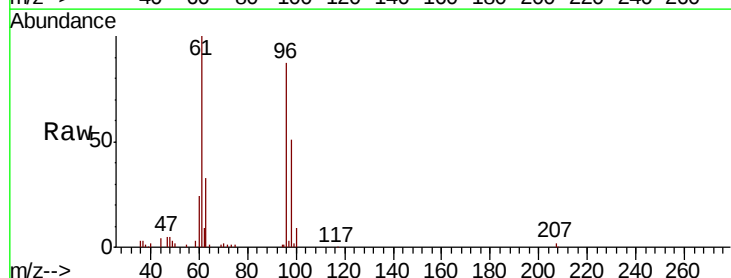
Tgt Ion: 96 Resp: 30568

Ion Ratio Lower Upper

96 100

61 120.2 0.0 282.8

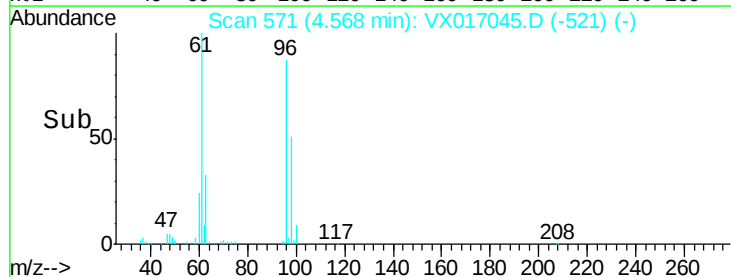
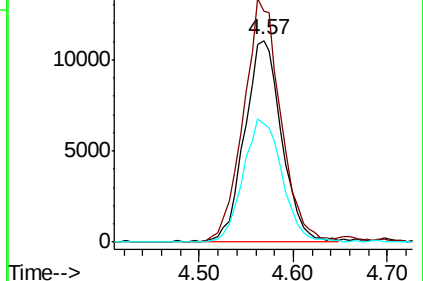
98 63.5 0.0 127.6

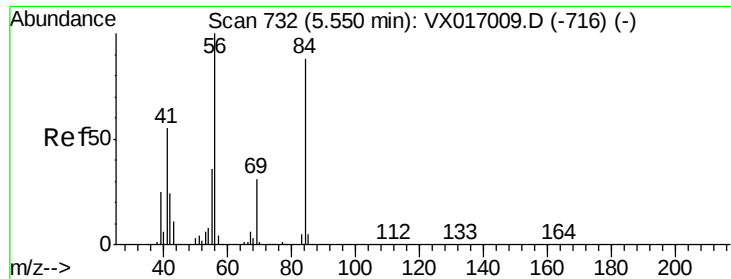


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

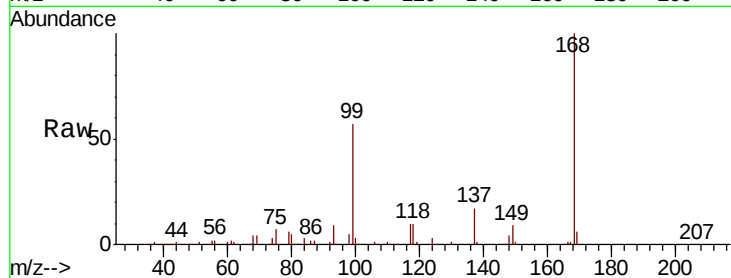




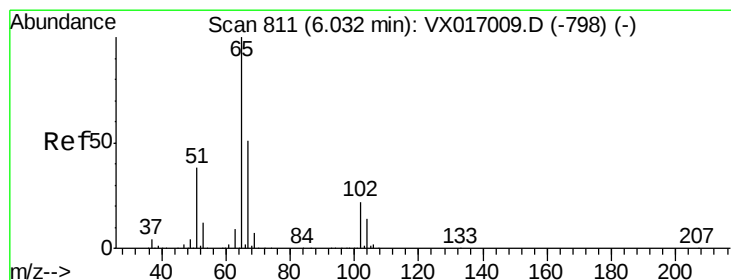
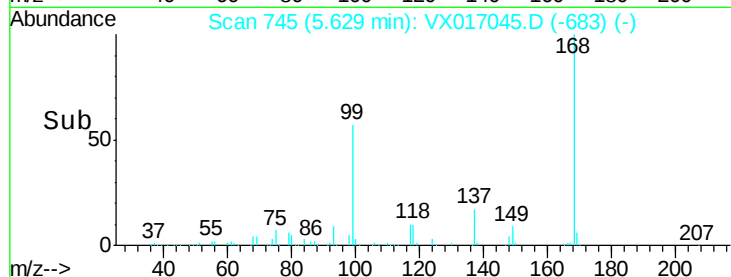
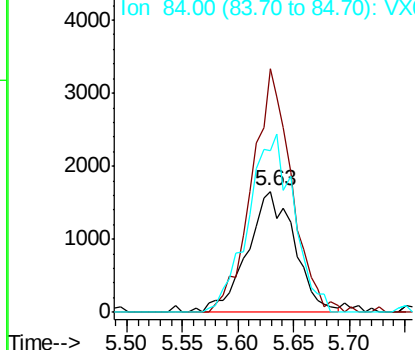
#31
Cyclohexane
Concen: 1.233 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017045.D
Acq: 30 Jun 2020 15:16

Instrument :
MSVOA_X
ClientSampleId :
61BR-20200624

Tot Ion: 56 Resp: 4870
Ion Ratio Lower Upper
56 100
69 201.5 25.0 37.4#
84 133.4 69.1 103.7#

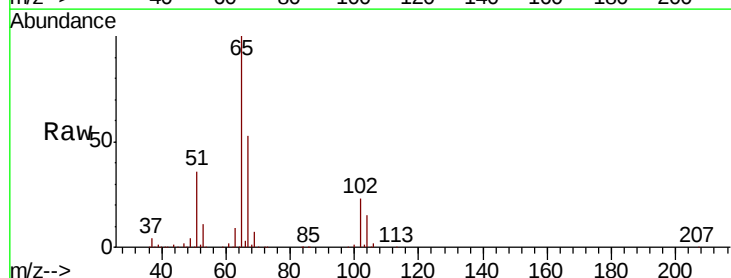


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

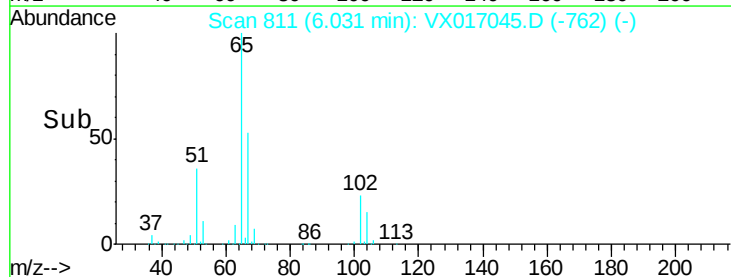
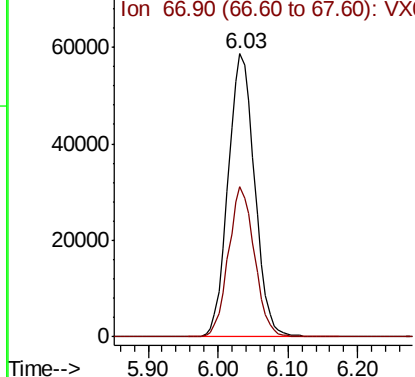


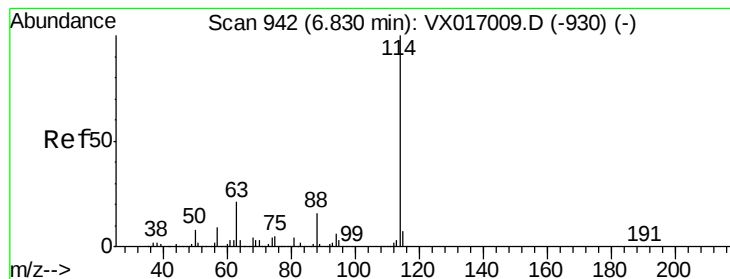
#33
1,2-Dichloroethane-d4
Concen: 52.962 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017045.D
Acq: 30 Jun 2020 15:16

Tgt Ion: 65 Resp: 154965
Ion Ratio Lower Upper
65 100
67 51.9 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

61BR-20200624

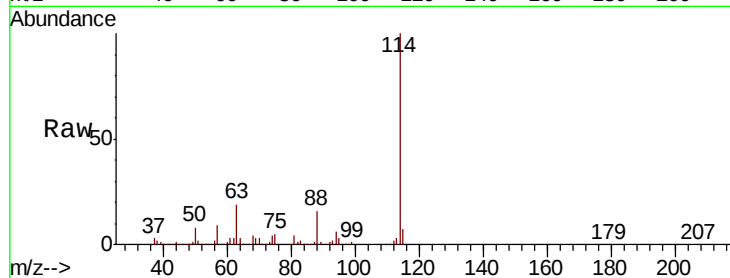
Tot Ion:114 Resp: 406981

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

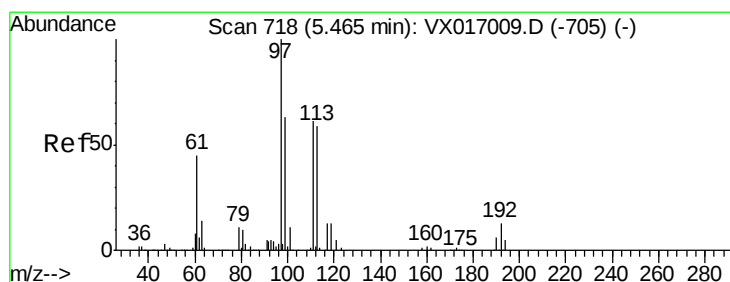
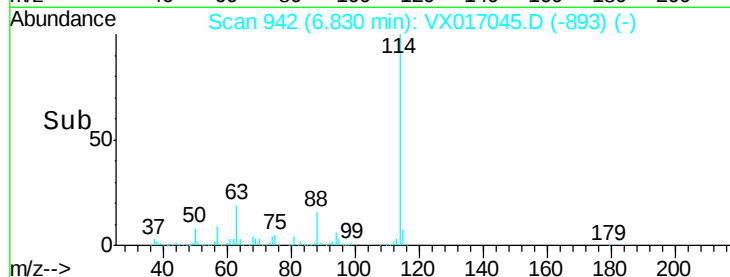
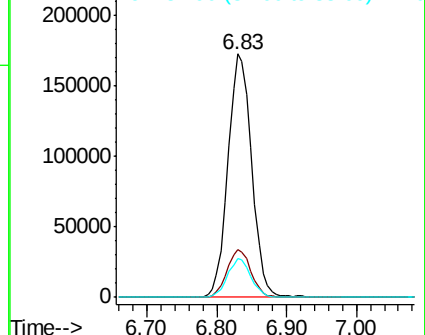
88 15.8 0.0 32.4



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: 51.465 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

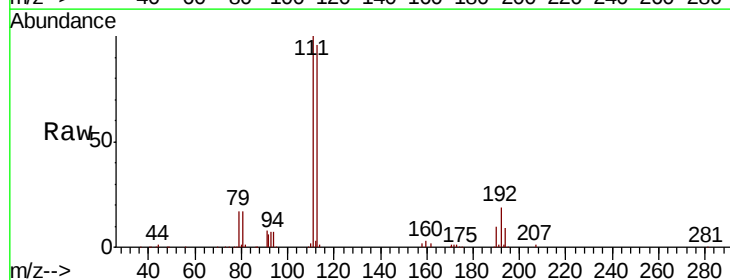
Tgt Ion:113 Resp: 132494

Ion Ratio Lower Upper

113 100

111 103.3 81.9 122.9

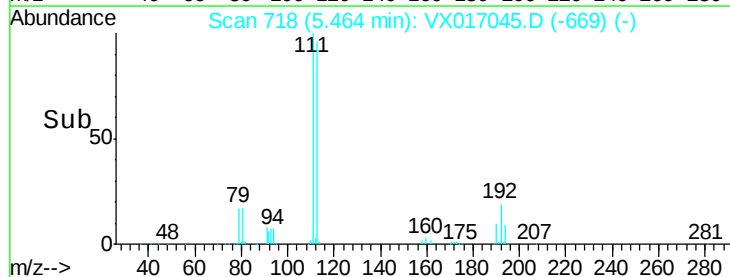
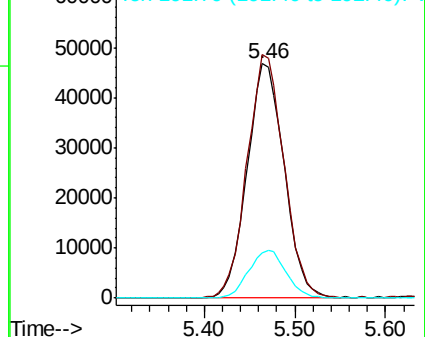
192 20.7 16.7 25.1

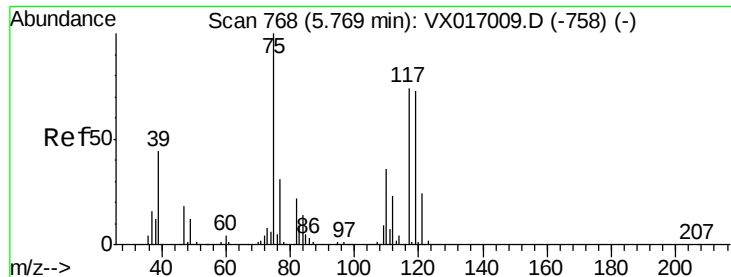


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

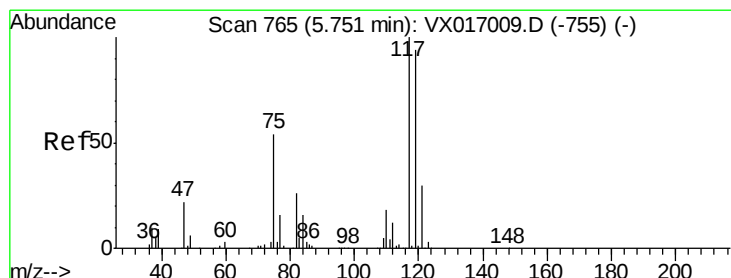
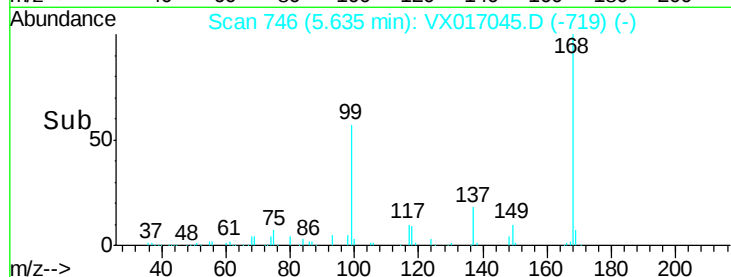
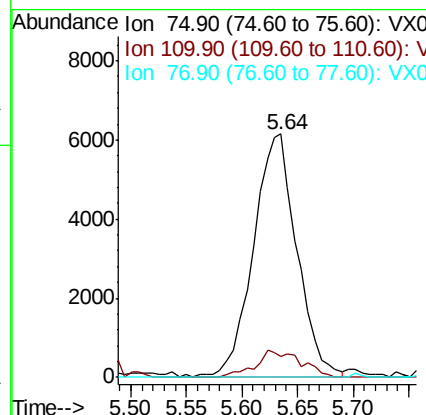
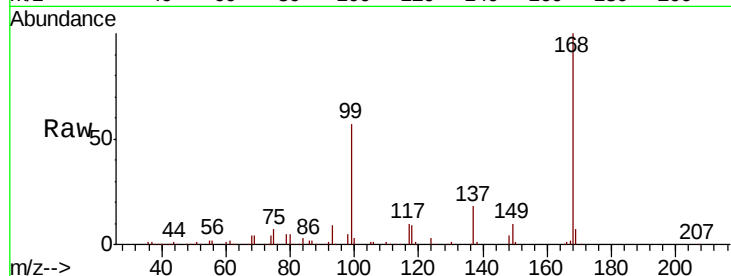




#36
 1,1-Dichloropropene
 Concen: 4.343 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017045.D
 Acq: 30 Jun 2020 15:16

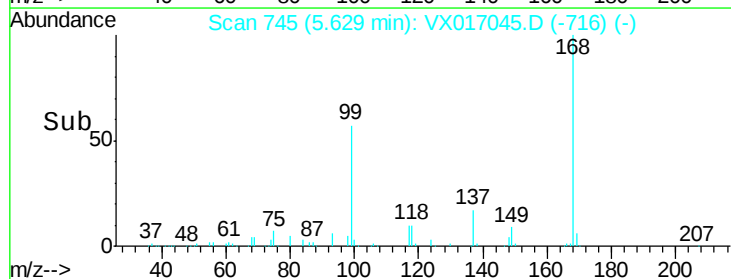
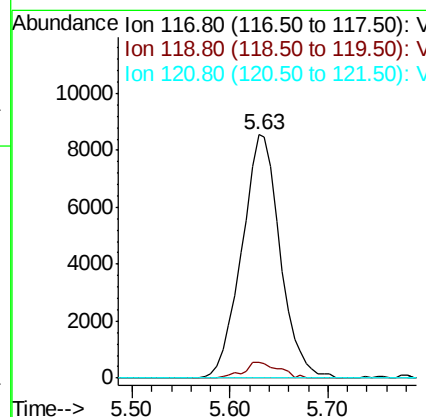
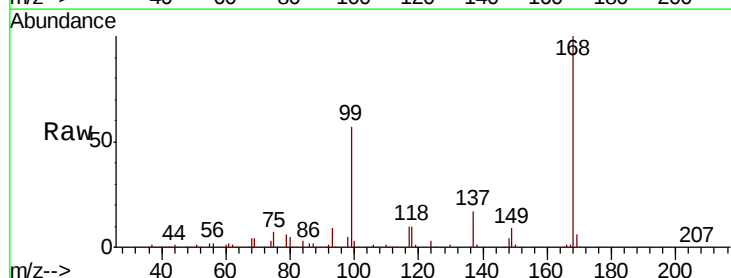
Instrument :
 MSVOA_X
 ClientSampleId :
 61BR-20200624

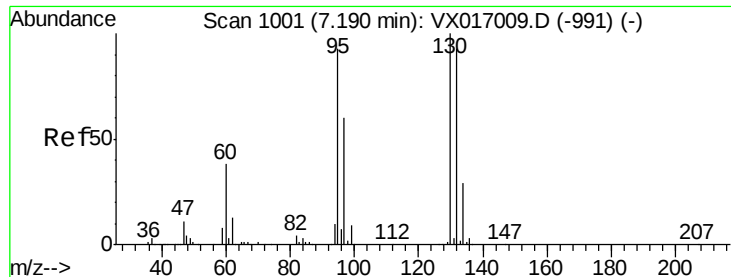
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.1	54.1#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.481 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017045.D
 Acq: 30 Jun 2020 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	75.4	113.0#
121	0.0	23.8	35.6#





#44

Trichloroethene

Concen: 1.385 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

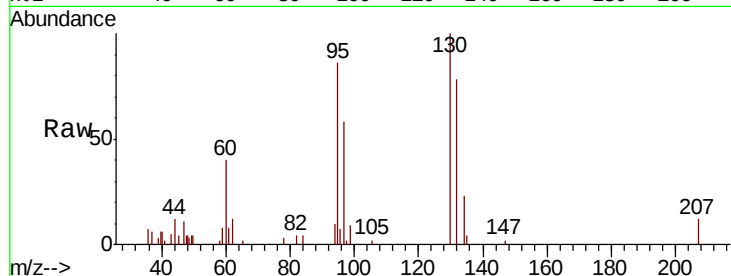
61BR-20200624

Tot Ion:130 Resp: 5257

Ion Ratio Lower Upper

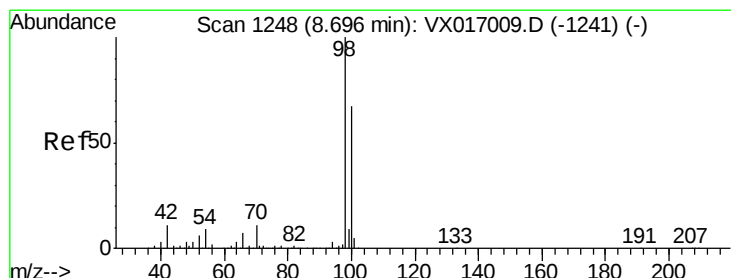
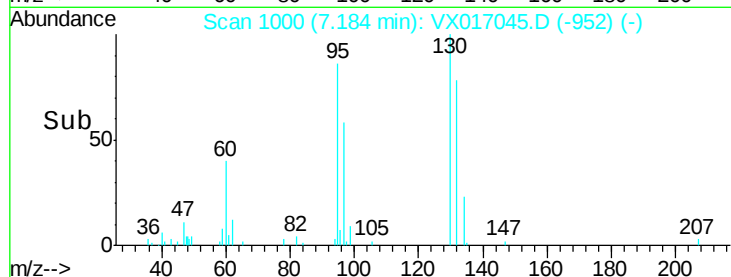
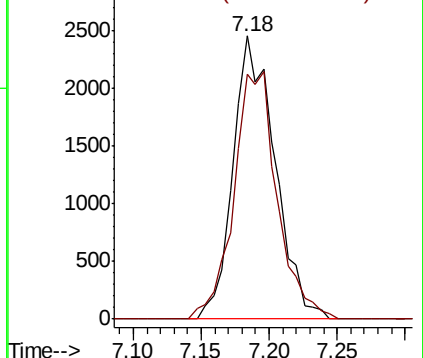
130 100

95 86.5 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.125 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017045.D

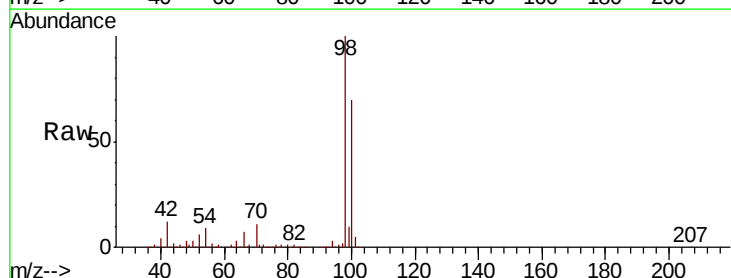
Acq: 30 Jun 2020 15:16

Tgt Ion: 98 Resp: 486693

Ion Ratio Lower Upper

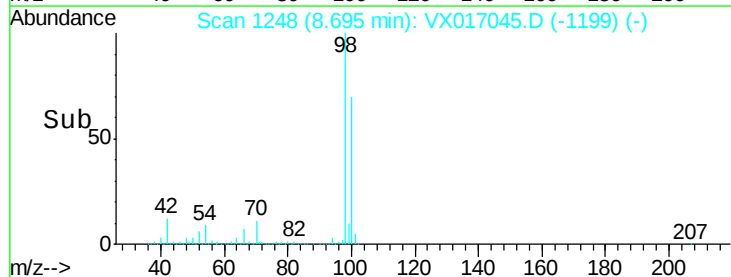
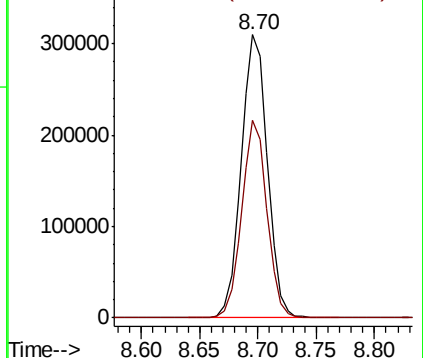
98 100

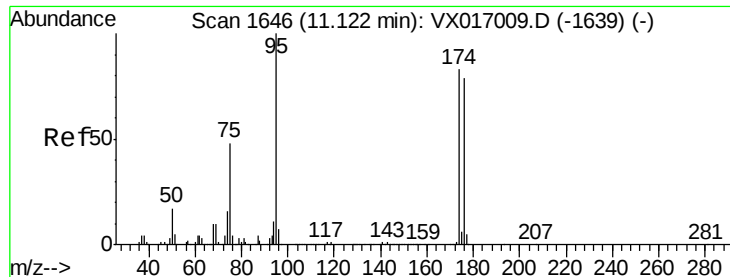
100 67.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 55.928 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

61BR-20200624

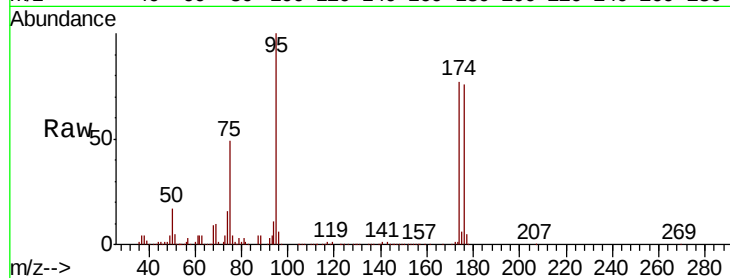
Tot Ion: 95 Resp: 208131

Ion Ratio Lower Upper

95 100

174 81.6 0.0 164.0

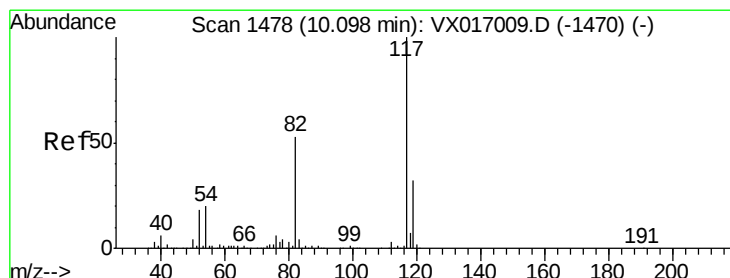
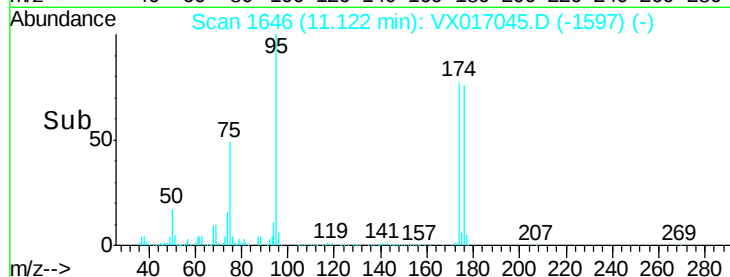
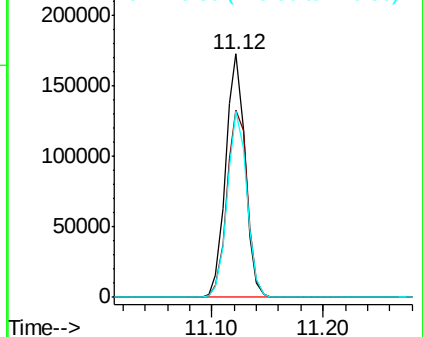
176 77.3 0.0 157.6



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: VX017045.D

Acq: 30 Jun 2020 15:16

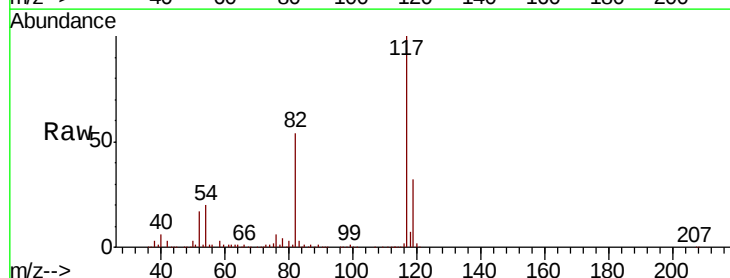
Tgt Ion: 117 Resp: 415022

Ion Ratio Lower Upper

117 100

82 53.9 42.6 63.8

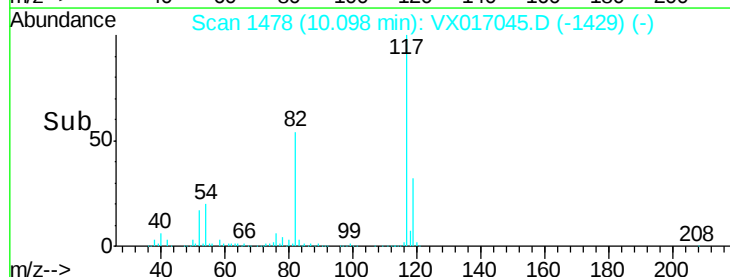
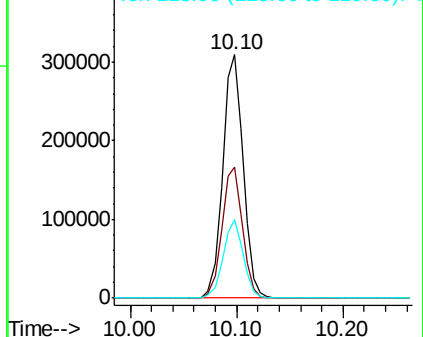
119 32.5 25.4 38.2

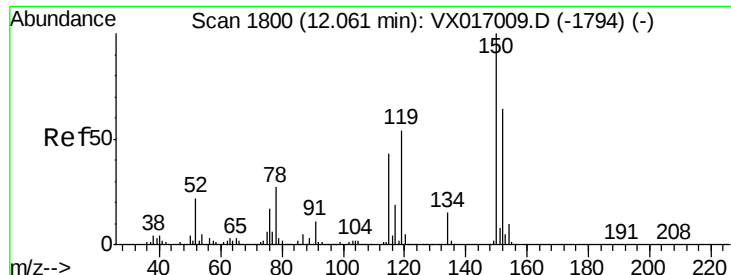


Abundance Ion 116.90 (116.60 to 117.60): VX0

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: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

61BR-20200624

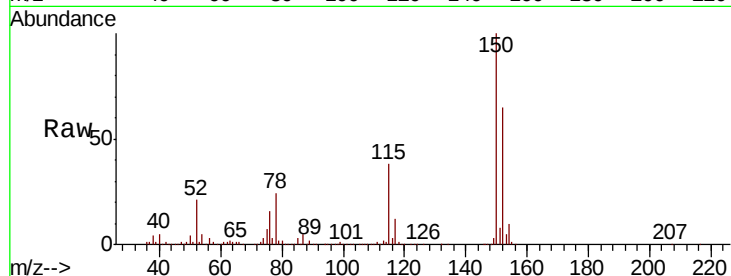
Tot Ion:152 Resp: 223754

Ion Ratio Lower Upper

152 100

115 57.4 40.9 122.7

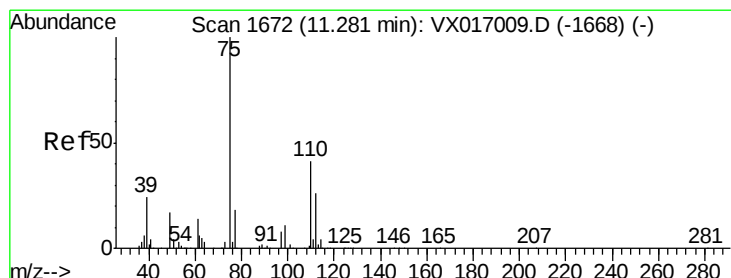
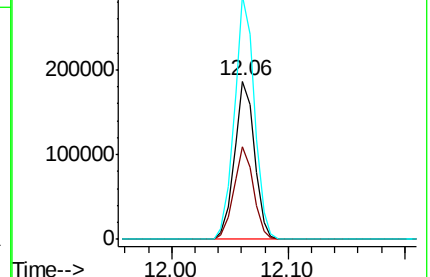
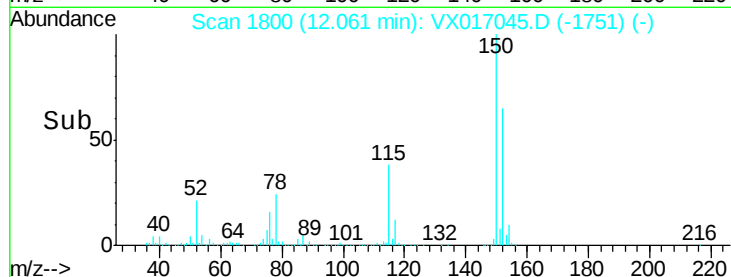
150 153.3 0.0 351.6



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: 23.327 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017045.D

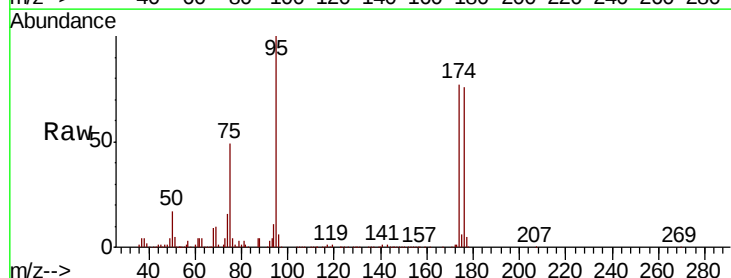
Acq: 30 Jun 2020 15:16

Tgt Ion: 75 Resp: 102640

Ion Ratio Lower Upper

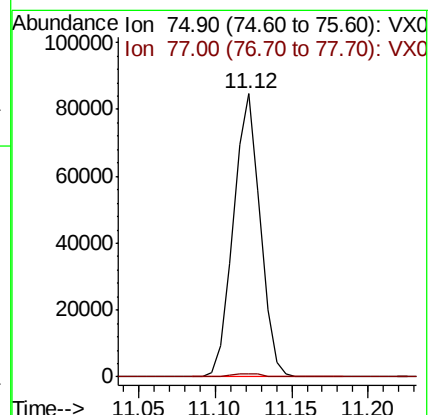
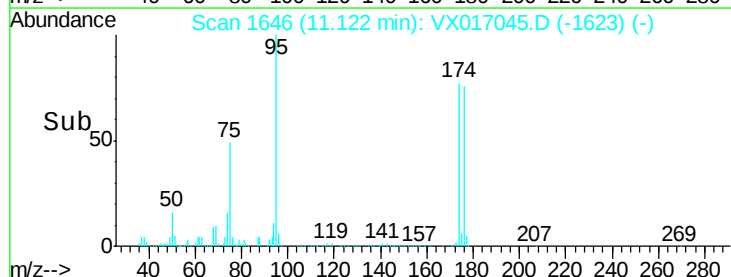
75 100

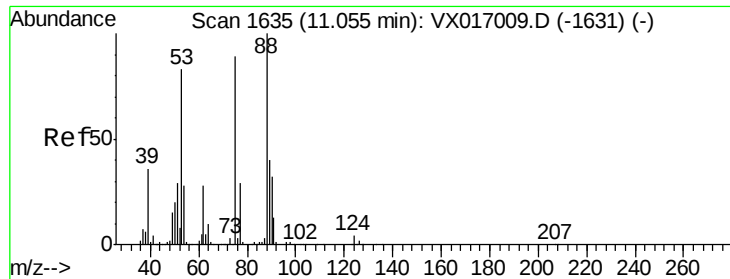
77 1.4 20.2 60.6#



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: 60.409 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

61BR-20200624

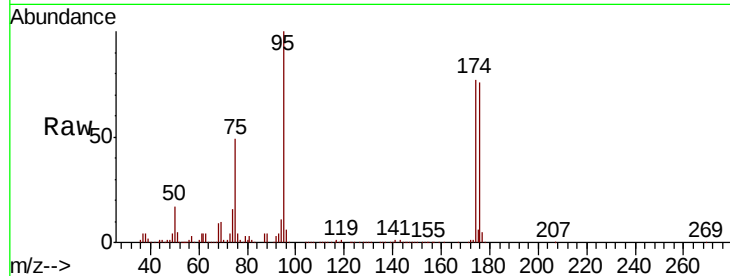
Tot Ion: 75 Resp: 102640

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

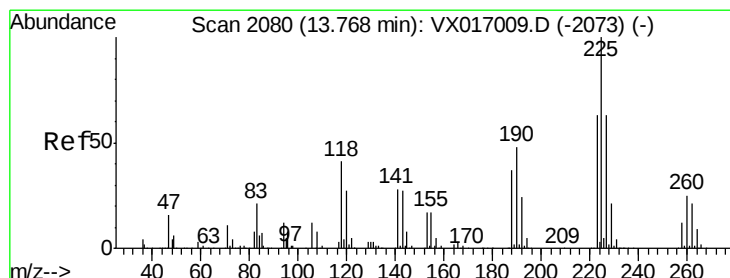
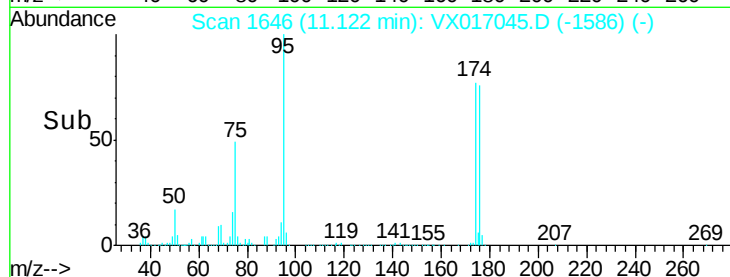
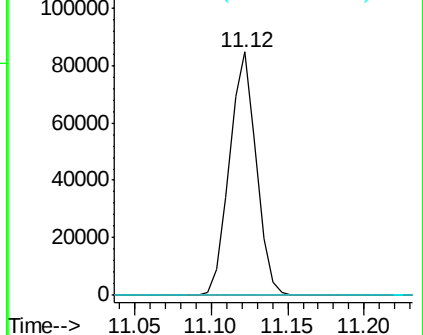
89 0.0 37.0 55.4#



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



#94

Hexachlorobutadiene

Concen: 0.855 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017045.D

Acq: 30 Jun 2020 15:16

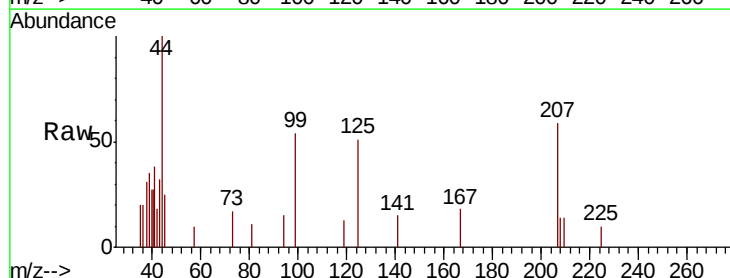
Tgt Ion: 225 Resp: 19

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 0.0 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

