

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX063020\
 Data File : VX017055.D
 Acq On : 30 Jun 2020 19:04
 Operator : JC/SP
 Sample : L3152-01 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 40680

Quant Time: Jul 01 08:10:33 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	5.64	168	226208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	389489	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	397967	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	208120	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	152564	54.71	ug/l	0.00
Spiked Amount			Recovery	=	109.42%	
35) Dibromofluoromethane	5.46	113	130285	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
50) Toluene-d8	8.70	98	472096	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	11.12	95	196909	55.29	ug/l	0.00
Spiked Amount			Recovery	=	110.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	150	0.487	ug/l #	1
11) Tert butyl alcohol	3.01	59	25278	47.515	ug/l	97
12) 1,1-Dichloroethene	2.36	96	640	0.286	ug/l #	47
13) Acrolein	2.27	56	308	0.968	ug/l #	15
15) Acrylonitrile	3.13	53	261	0.204	ug/l #	58
16) Acetone	2.42	43	1118611	1072.264	ug/l	98
18) Methyl Acetate	2.75	43	1723	0.633	ug/l	91
20) Methylene Chloride	2.84	84	5315	1.462	ug/l #	93
22) Diisopropyl ether	3.92	45	4798	0.627	ug/l #	1
23) Vinyl Acetate	3.92	43	11343	1.724	ug/l #	71
25) 2-Butanone	4.66	43	2644	1.521	ug/l #	88
26) 2,2-Dichloropropane	4.65	77	950	0.246	ug/l #	53
31) Cyclohexane	5.64	56	4677	1.242	ug/l #	3
36) 1,1-Dichloropropene	5.62	75	17683	4.804	ug/l #	50
38) Carbon Tetrachloride	5.63	117	22777	5.618	ug/l #	17
40) Benzene	6.11	78	3815	0.353	ug/l	92
44) Trichloroethene	7.20	130	356	Below Cal		87
49) 1,4-Dioxane	7.73	88	235	3.518	ug/l #	1
52) Toluene	8.76	92	50686	7.506	ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	97638	23.857	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	97638	61.782	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	464	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampled :

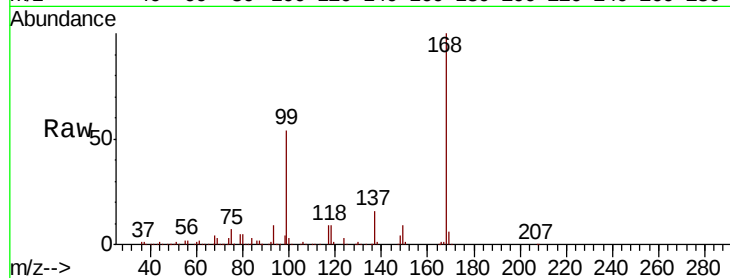
40680

Tot Ion:168 Resp: 226208

Ion Ratio Lower Upper

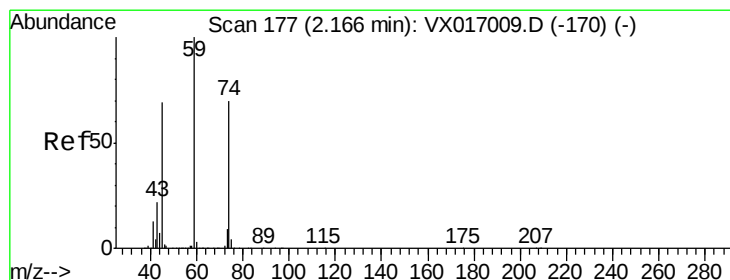
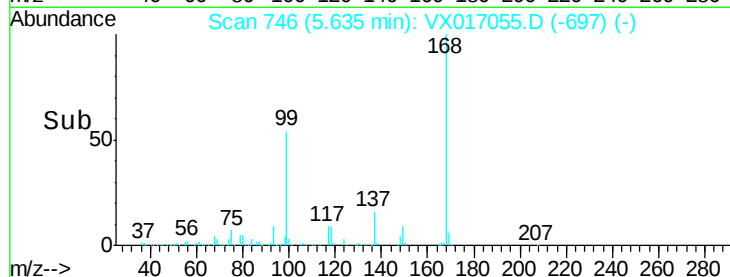
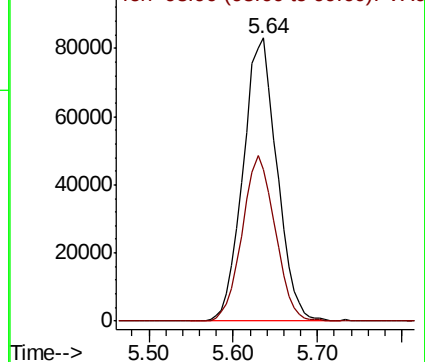
168 100

99 53.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.487 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017055.D

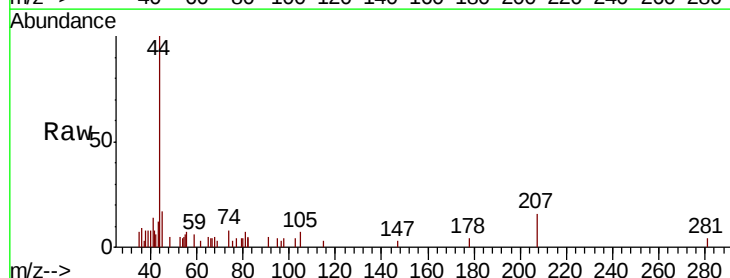
Acq: 30 Jun 2020 19:04

Tgt Ion: 74 Resp: 150

Ion Ratio Lower Upper

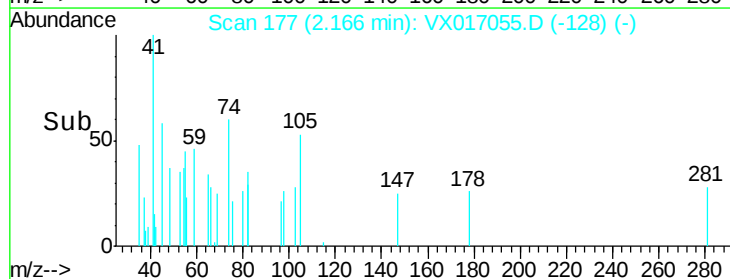
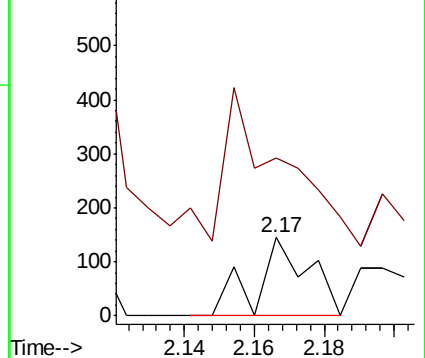
74 100

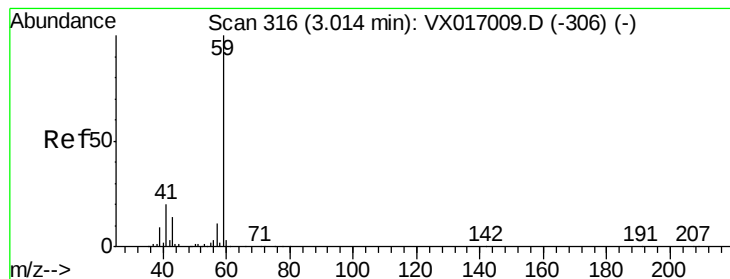
45 283.3 49.8 149.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#11

Tert butyl alcohol

Concen: 47.515 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampled :

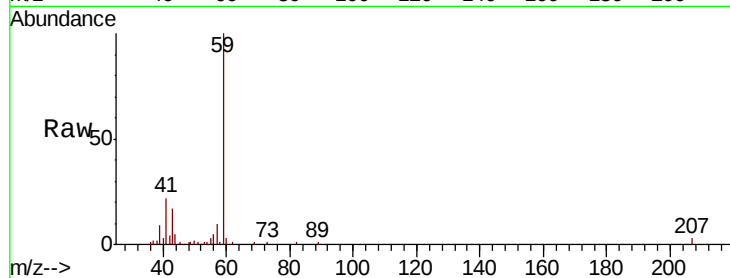
40680

Tot Ion: 59 Resp: 25278

Ion Ratio Lower Upper

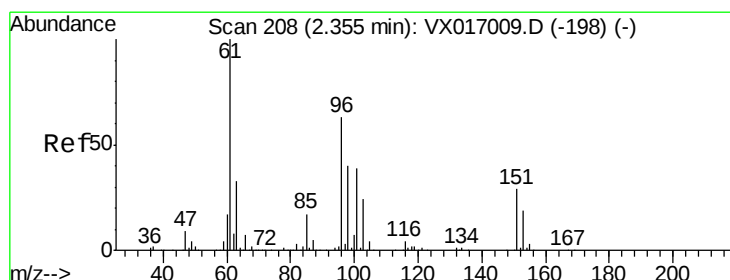
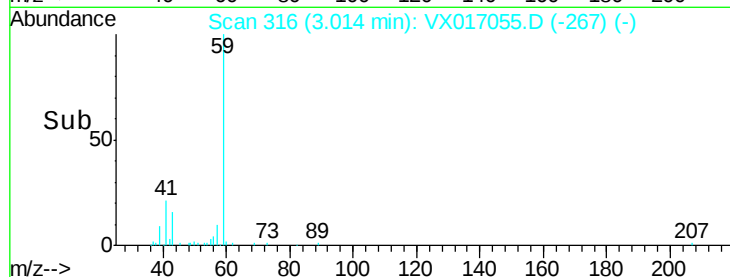
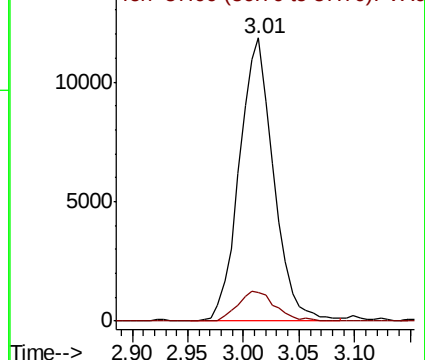
59 100

57 11.5 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: 0.286 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

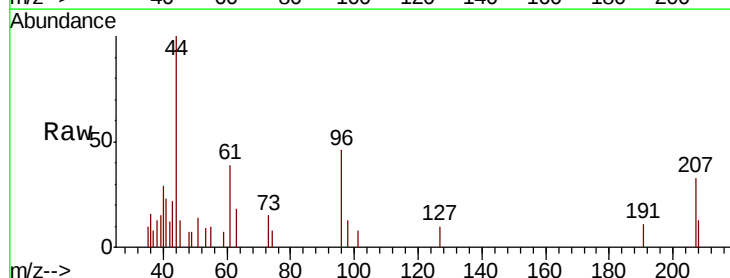
Tgt Ion: 96 Resp: 640

Ion Ratio Lower Upper

96 100

61 85.2 126.3 189.5#

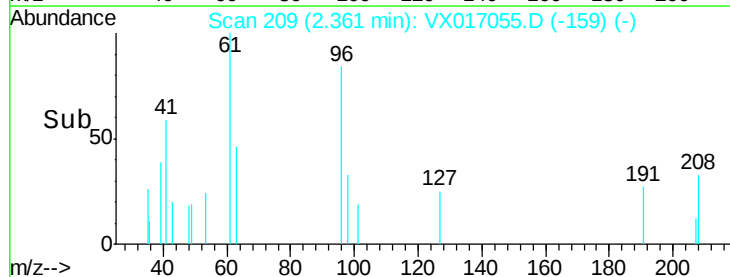
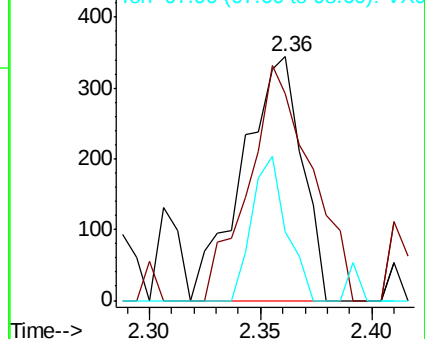
98 28.2 51.0 76.6#

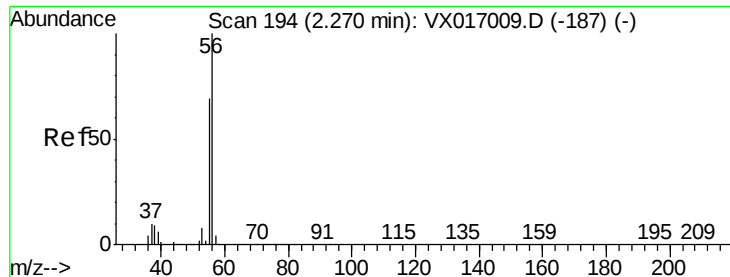


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.968 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampled :

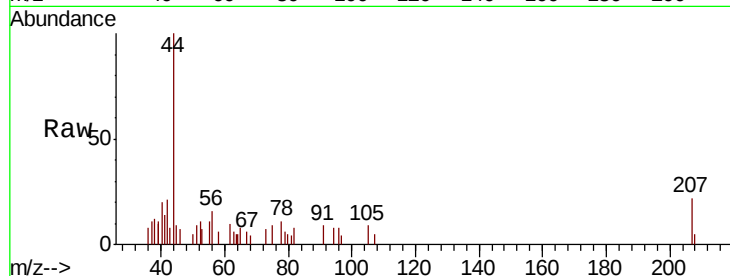
40680

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

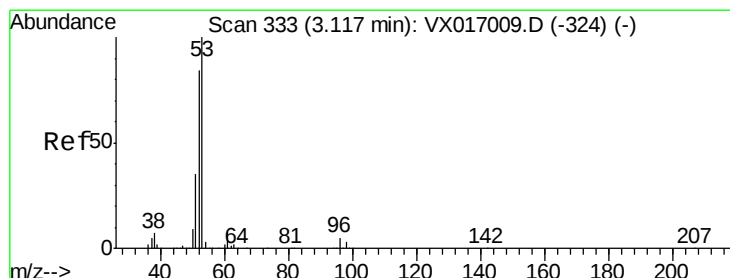
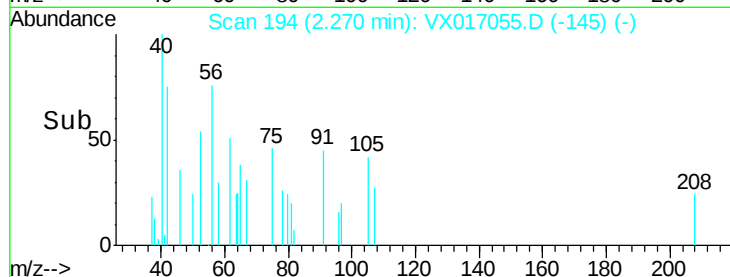
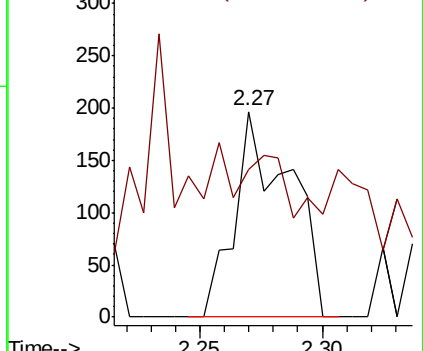
56 100

55 0.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.204 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

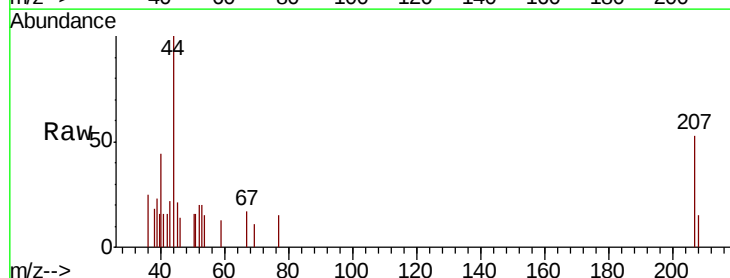
Tgt Ion: 53 Resp: 261

Ion Ratio Lower Upper

53 100

52 47.9 65.6 98.4#

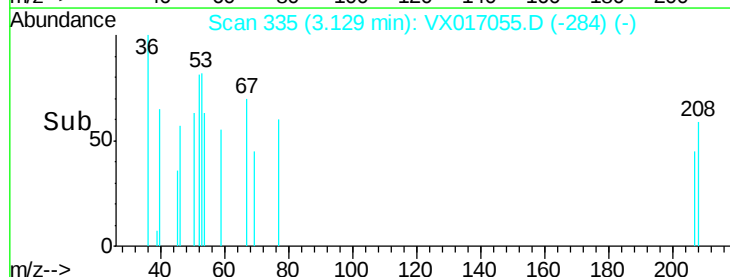
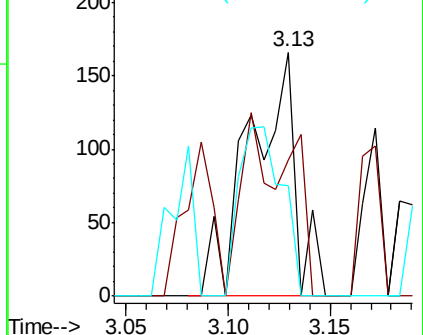
51 64.8 28.3 42.5#

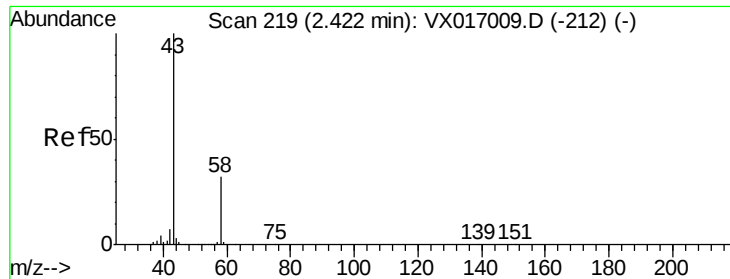


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1072.264 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

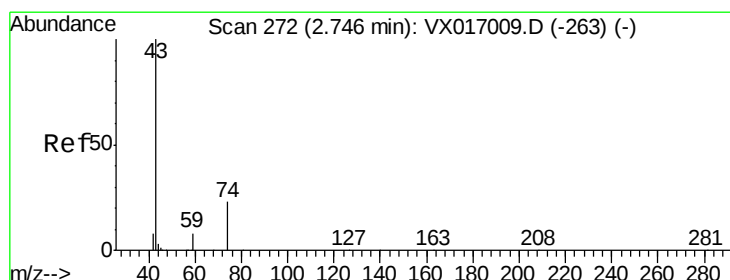
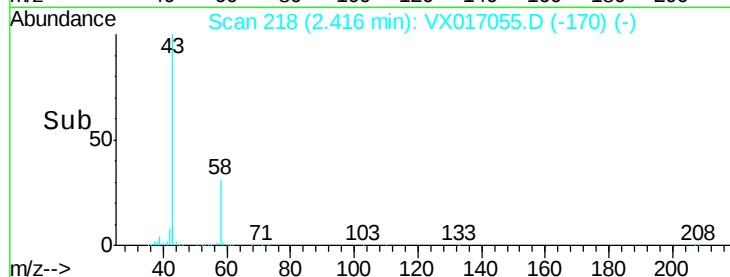
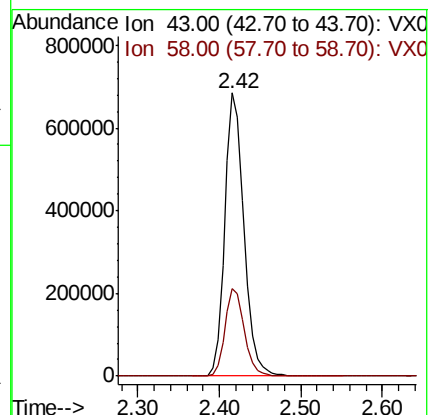
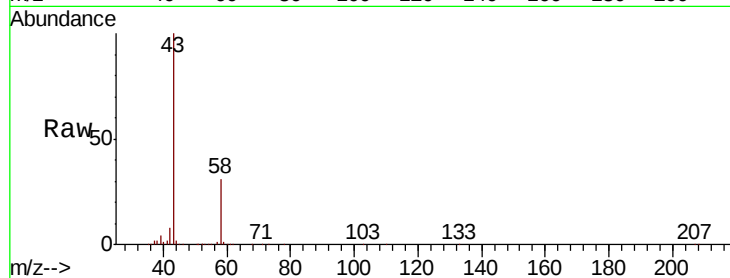
40680

Tot Ion: 43 Resp: 1118611

Ion Ratio Lower Upper

43 100

58 31.1 25.7 38.5



#18

Methyl Acetate

Concen: 0.633 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017055.D

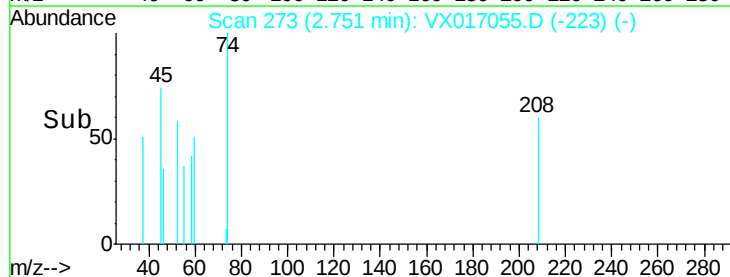
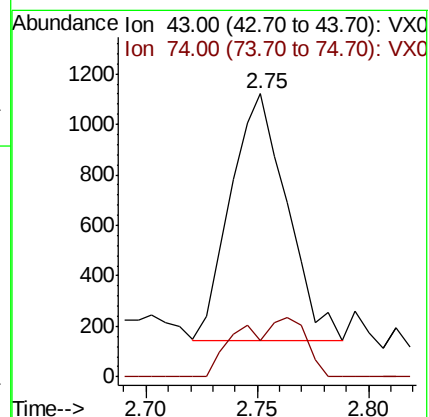
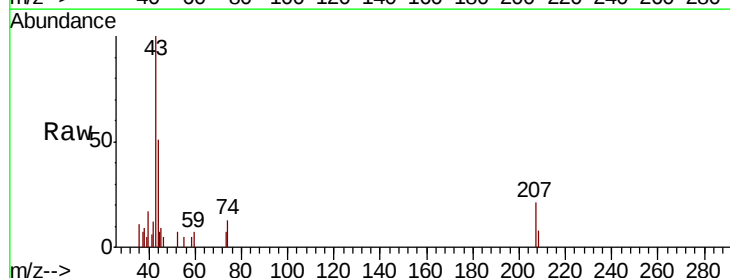
Acq: 30 Jun 2020 19:04

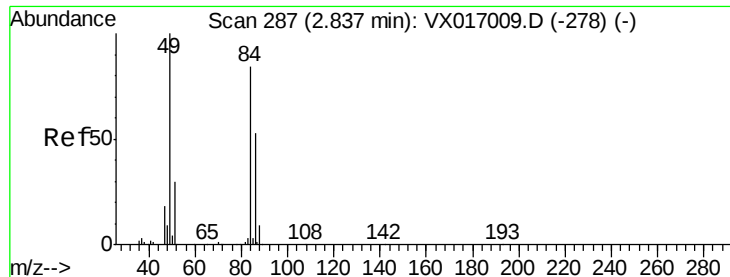
Tgt Ion: 43 Resp: 1723

Ion Ratio Lower Upper

43 100

74 28.4 19.3 28.9

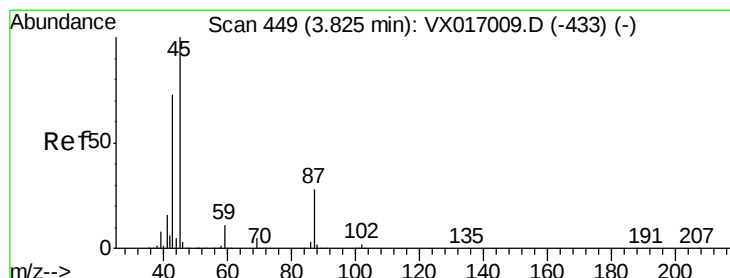
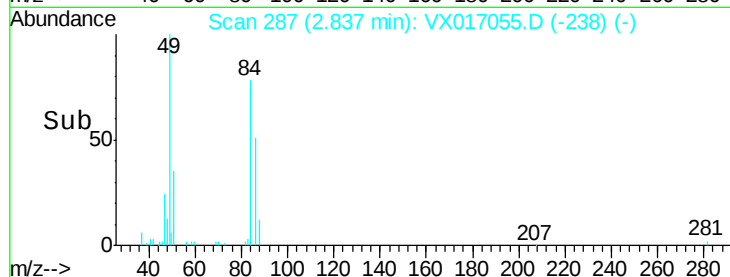
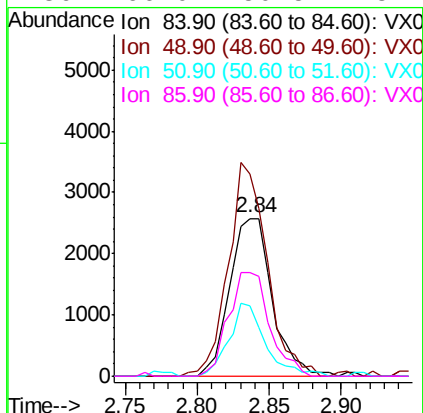
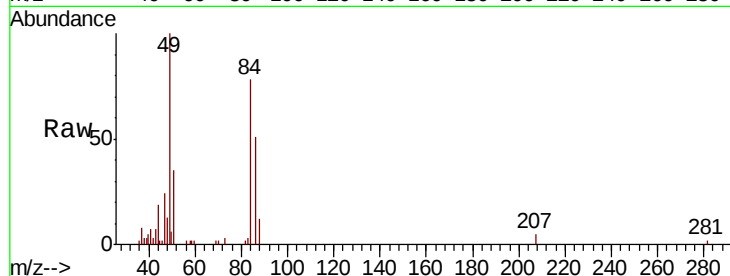




#20
Methvlene Chloride
Concen: 1.462 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

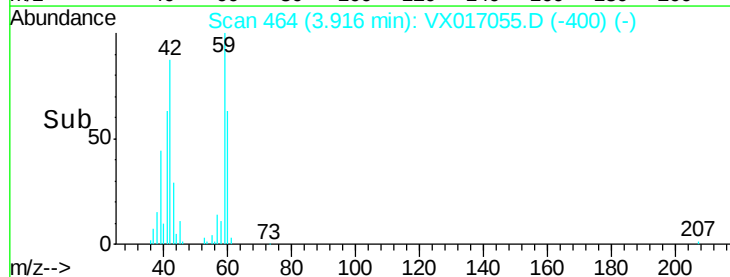
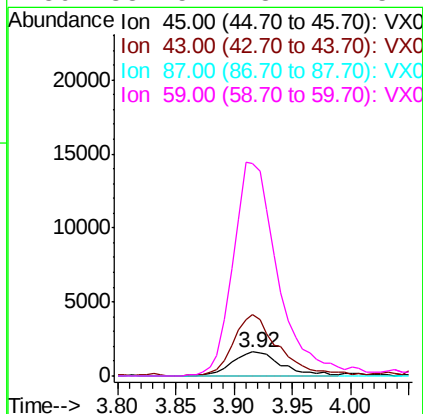
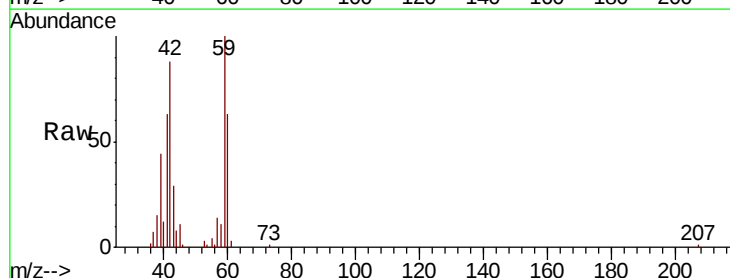
Instrument :
MSVOA_X
ClientSampled :
40680

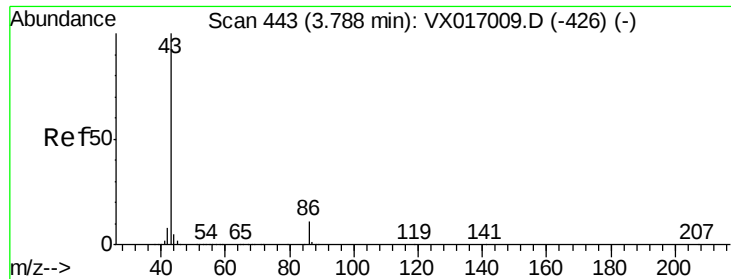
Tot Ion: 84 Resp: 5315
Ion Ratio Lower Upper
84 100
49 125.8 94.7 142.1
51 44.5 28.6 42.8#
86 66.0 50.5 75.7



#22
Diisopropyl ether
Concen: 0.627 ug/l
RT: 3.92 min Scan# 464
Delta R.T. 0.09 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

Tgt Ion: 45 Resp: 4798
Ion Ratio Lower Upper
45 100
43 250.1 58.6 88.0#
87 0.0 22.6 34.0#
59 881.5 8.7 13.1#





#23

Vinyl Acetate

Concen: 1.724 ug/l

RT: 3.92 min Scan# 464

Delta R.T. 0.13 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

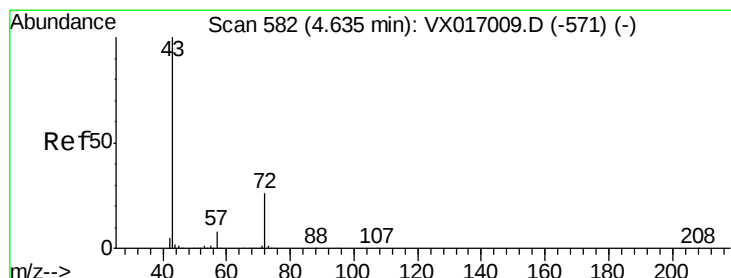
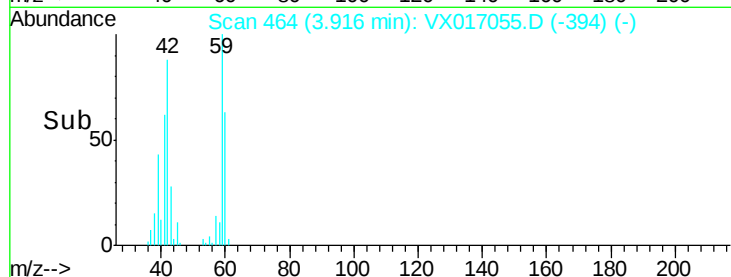
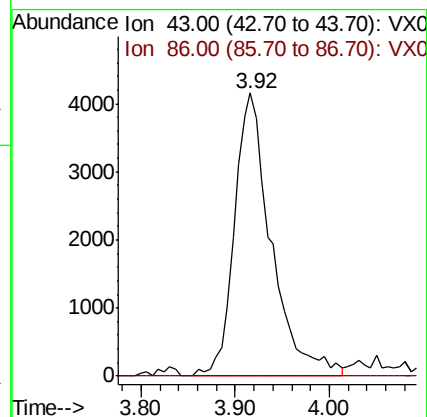
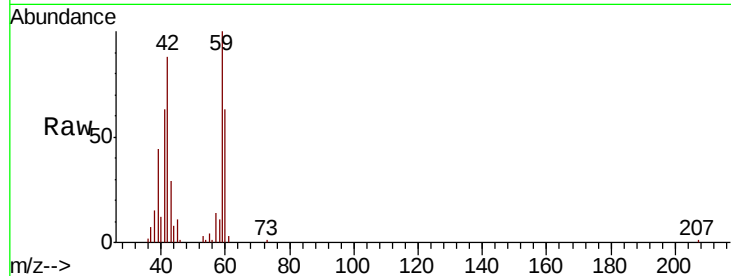
40680

Tot Ion: 43 Resp: 11343

Ion Ratio Lower Upper

43 100

86 0.0 8.6 13.0#



#25

2-Butanone

Concen: 1.521 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX017055.D

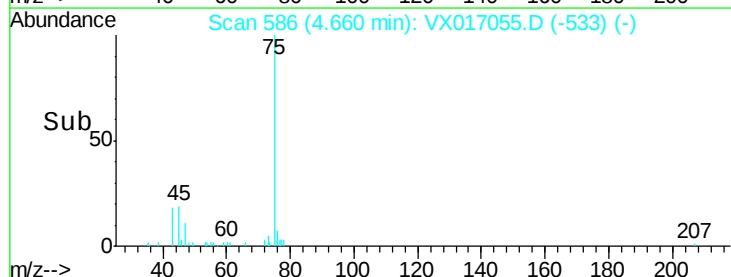
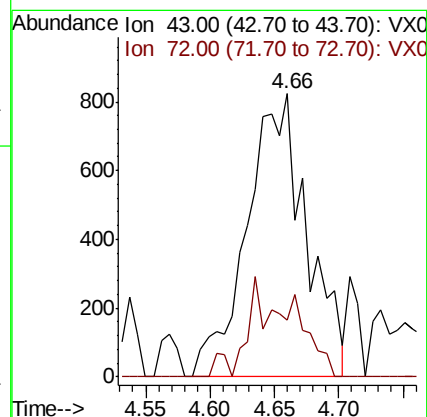
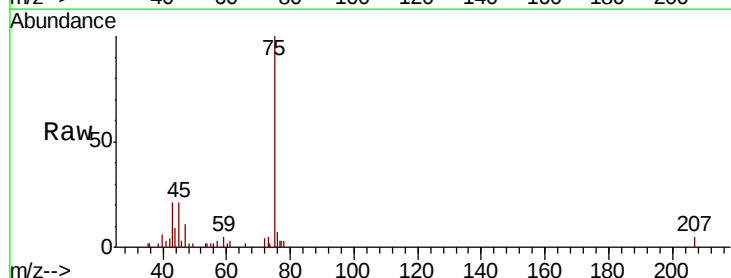
Acq: 30 Jun 2020 19:04

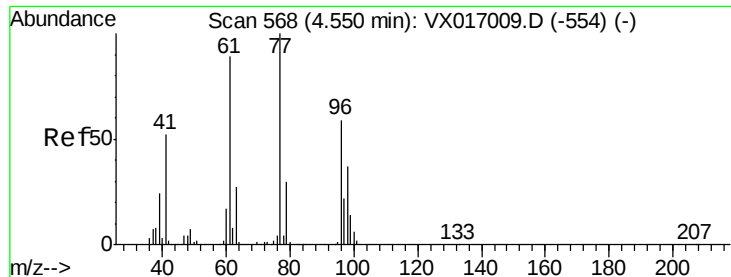
Tgt Ion: 43 Resp: 2644

Ion Ratio Lower Upper

43 100

72 19.9 20.8 31.2#





#26

2,2-Dichloropropane

Concen: 0.246 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.10 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

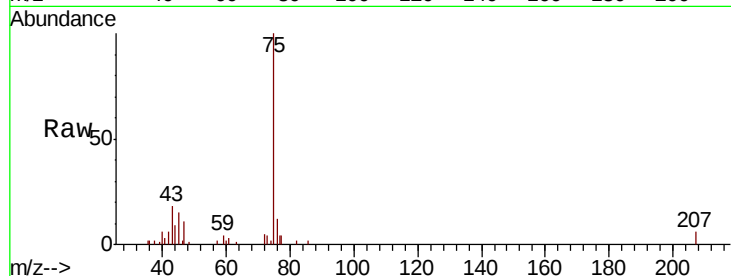
40680

Tot Ion: 77 Resp: 950

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.65

300

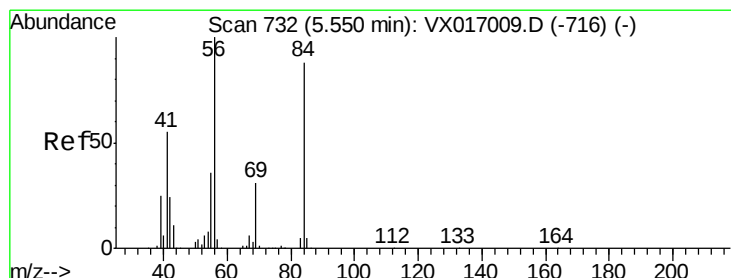
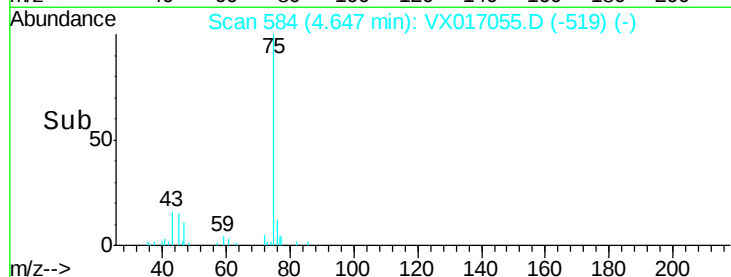
200

100

0

4.60 4.65 4.70

Time-->



#31

Cyclohexane

Concen: 1.242 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

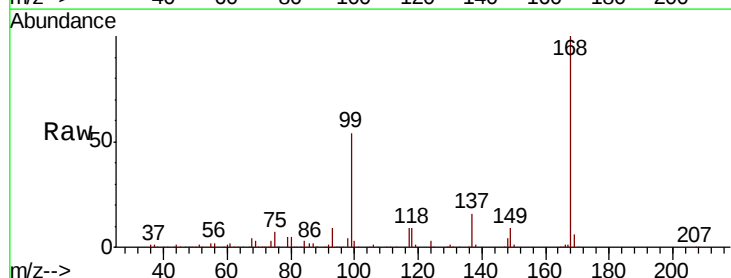
Tgt Ion: 56 Resp: 4677

Ion Ratio Lower Upper

56 100

69 149.6 25.0 37.4#

84 136.5 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

4000

3000

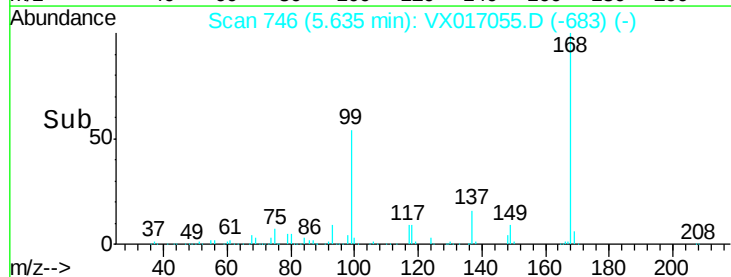
2000

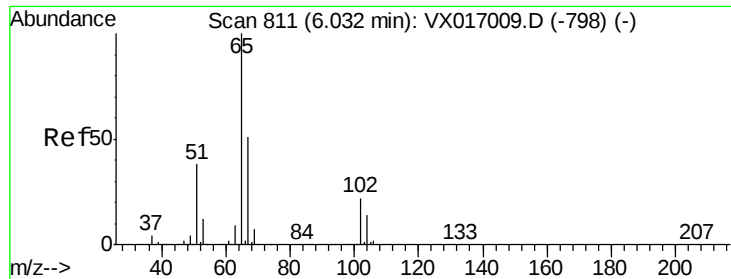
1000

0

5.55 5.60 5.65 5.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 54.708 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

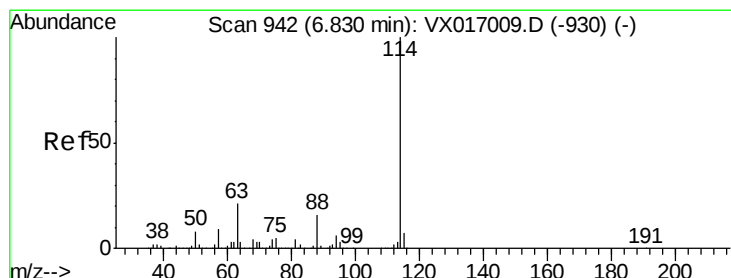
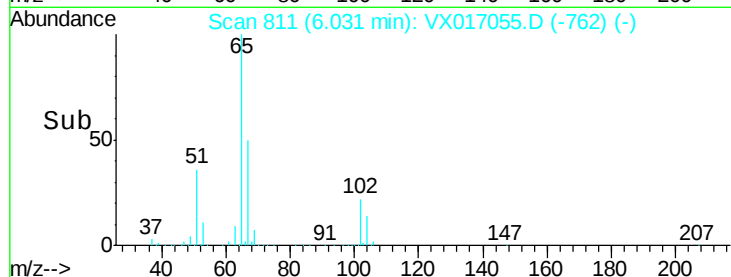
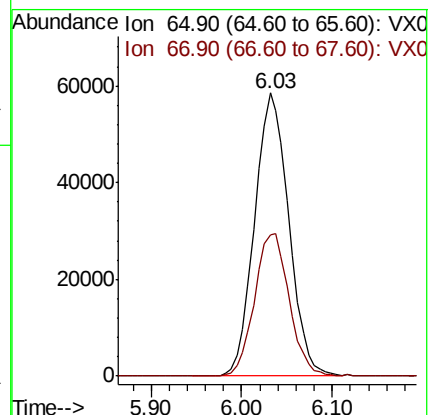
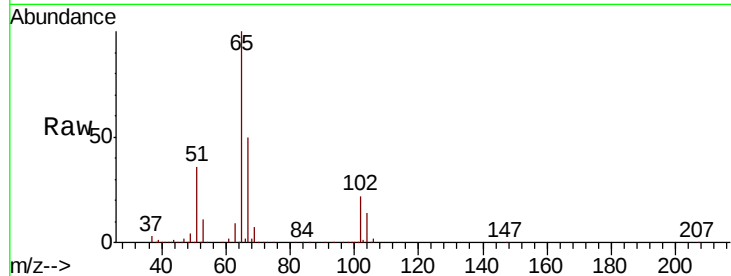
40680

Tot Ion: 65 Resp: 152564

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

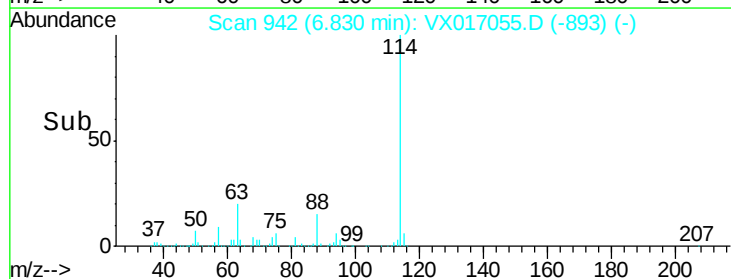
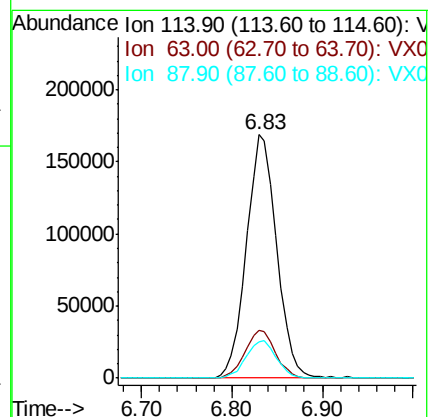
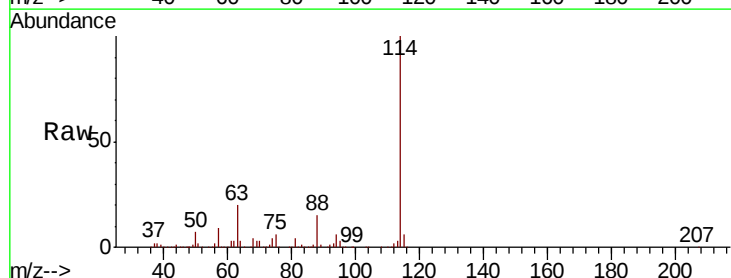
Tgt Ion: 114 Resp: 389489

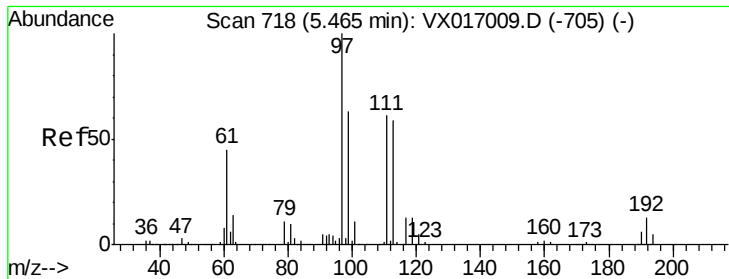
Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

88 15.1 0.0 32.4

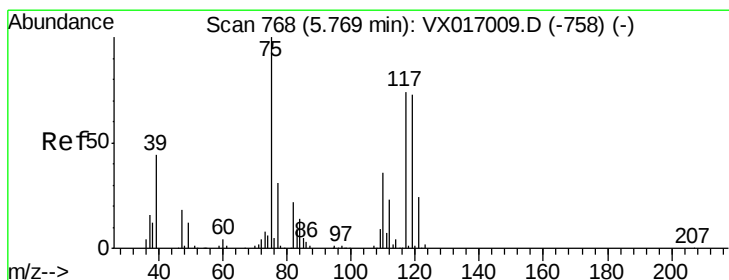
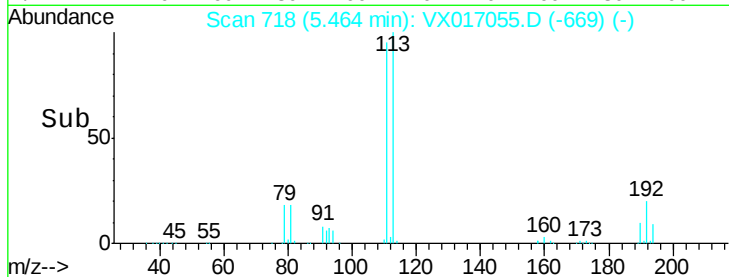
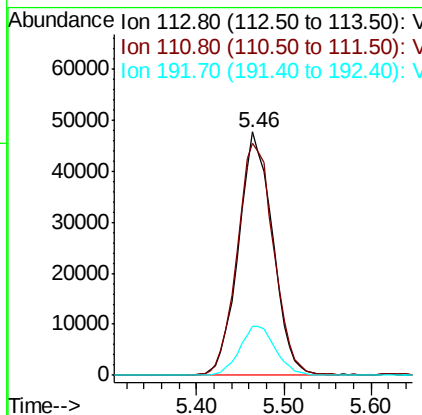
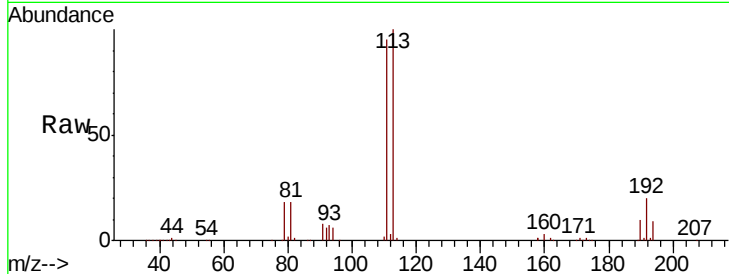




#35
 Dibromofluoromethane
 Concen: 52.880 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX017055.D
 Acq: 30 Jun 2020 19:04

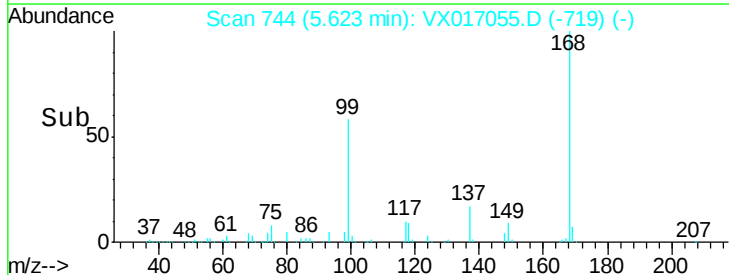
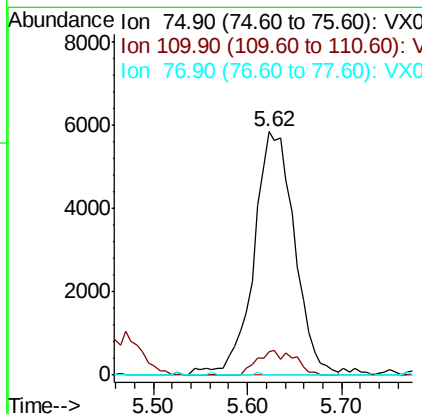
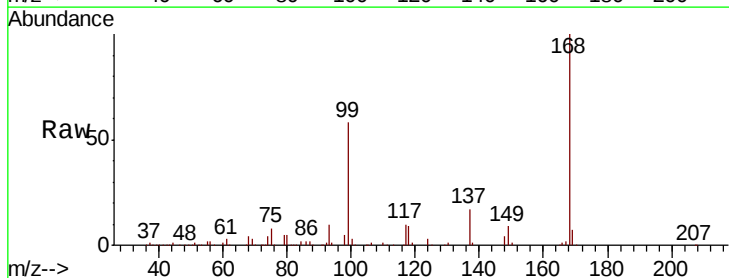
Instrument :
 MSVOA_X
 ClientSampleId :
 40680

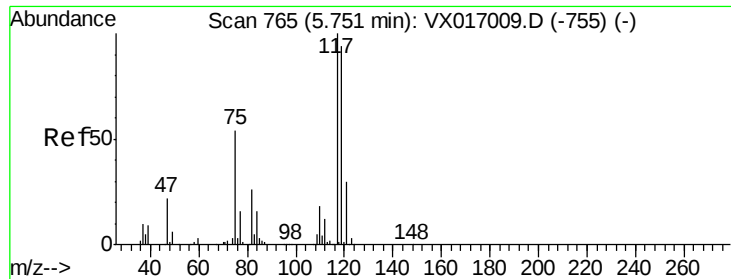
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.9	122.9
192	21.1	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.804 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX017055.D
 Acq: 30 Jun 2020 19:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.1#
77	0.1	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.618 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

40680

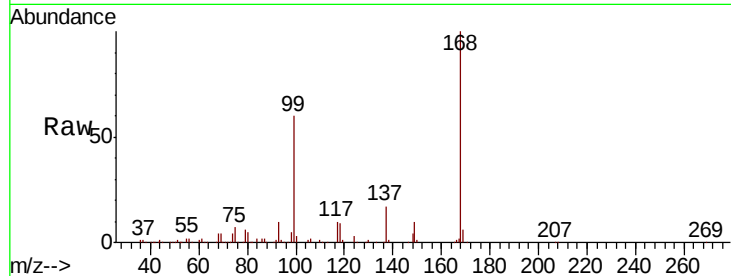
Tot Ion:117 Resp: 22777

Ion Ratio Lower Upper

117 100

119 5.9 75.4 113.0#

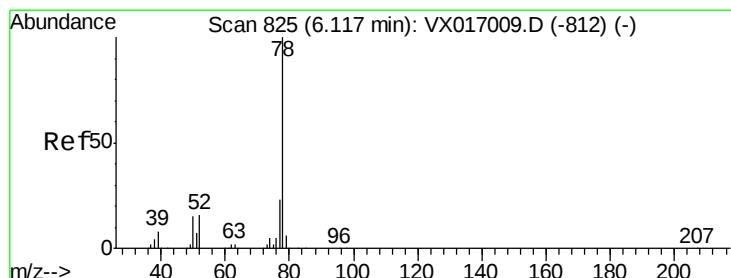
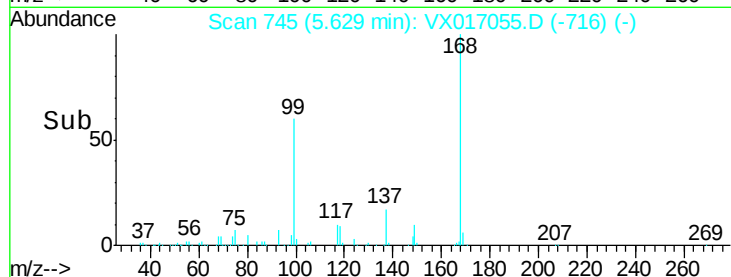
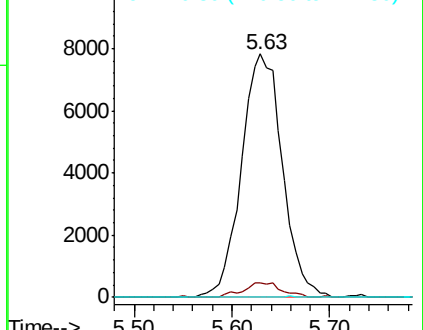
121 0.0 23.8 35.6#



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



#40

Benzene

Concen: 0.353 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.01 min

Lab File: VX017055.D

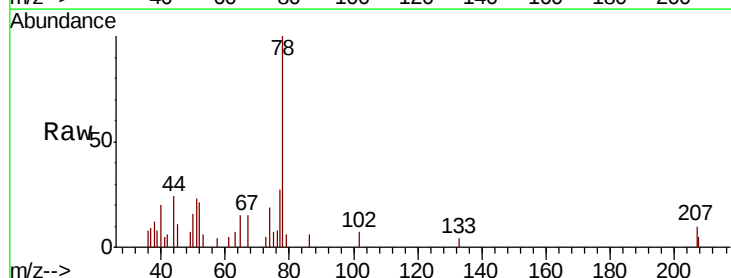
Acq: 30 Jun 2020 19:04

Tgt Ion: 78 Resp: 3815

Ion Ratio Lower Upper

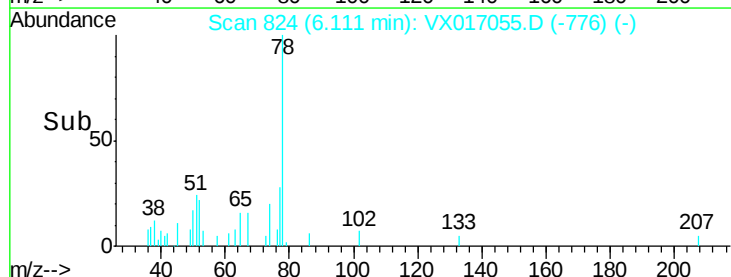
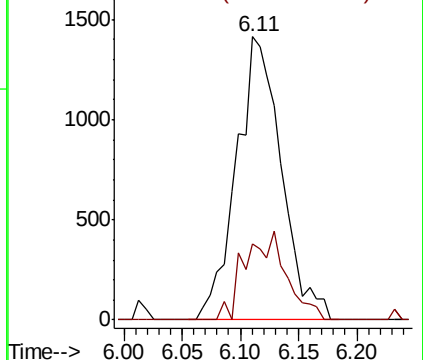
78 100

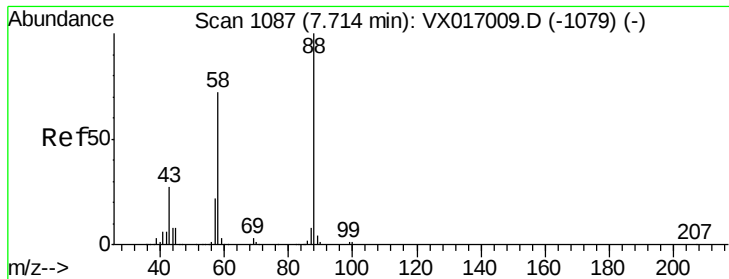
77 26.7 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

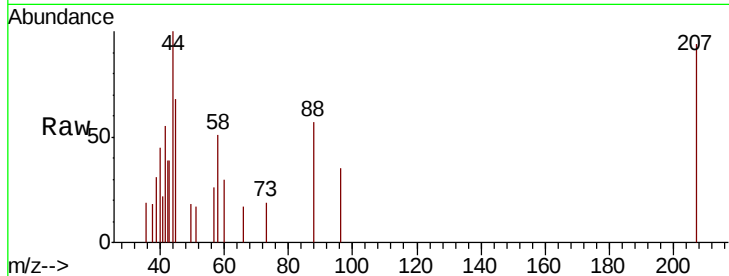




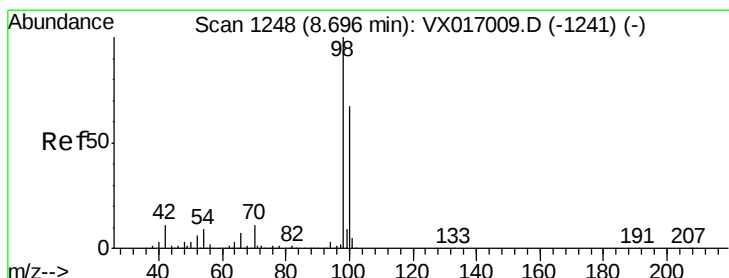
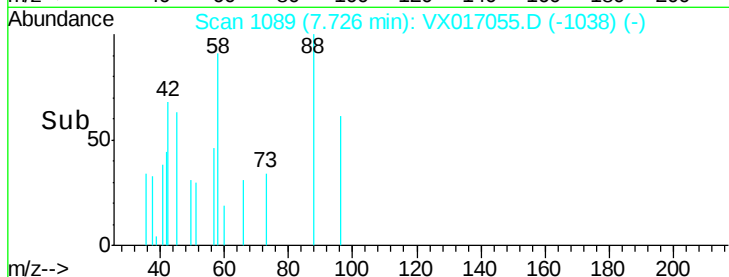
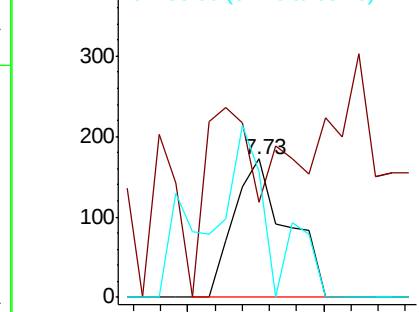
#49
1,4-Dioxane
Concen: 3.518 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

Instrument :
MSVOA_X
ClientSampleId :
40680

Tot Ion	88	Resp	235
Ion	Ratio	Lower	Upper
88	100		
43	123.0	25.8	38.8#
58	144.3	54.8	82.2#

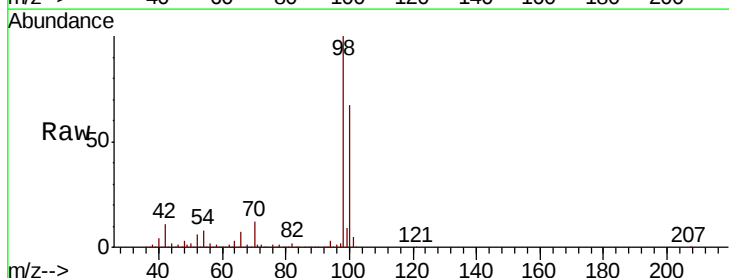


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

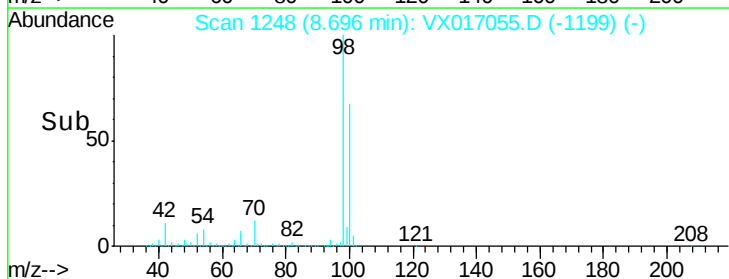
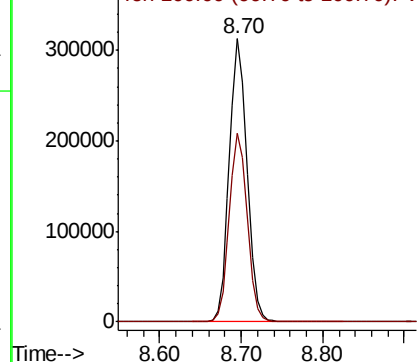


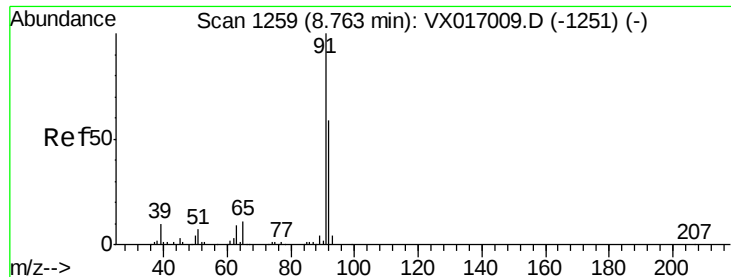
#50
Toluene-d8
Concen: 51.818 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

Tgt Ion	98	Resp	472096
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.8	80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 7.506 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

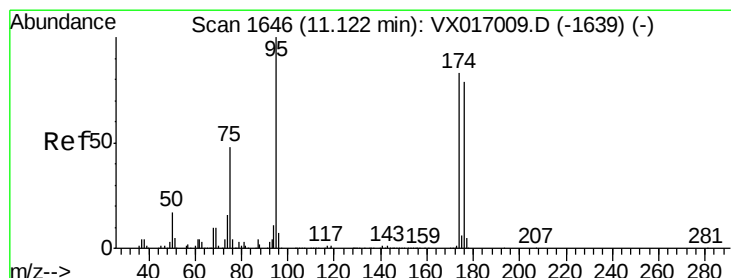
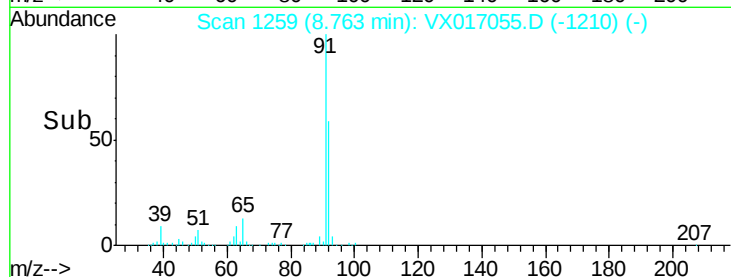
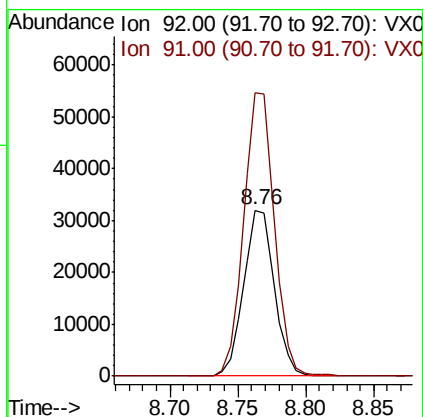
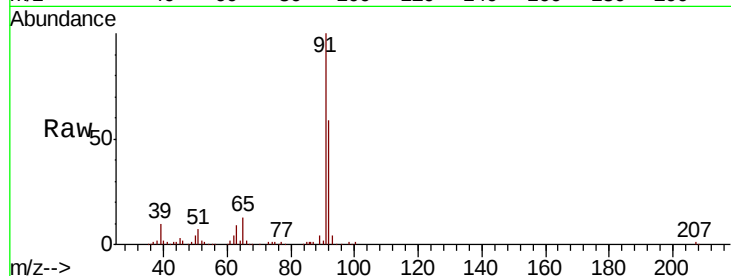
40680

Tot Ion: 92 Resp: 50686

Ion Ratio Lower Upper

92 100

91 170.9 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 55.289 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

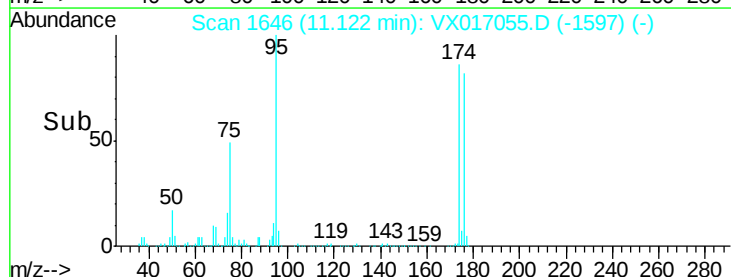
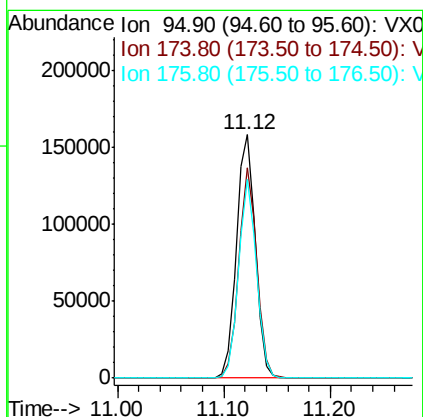
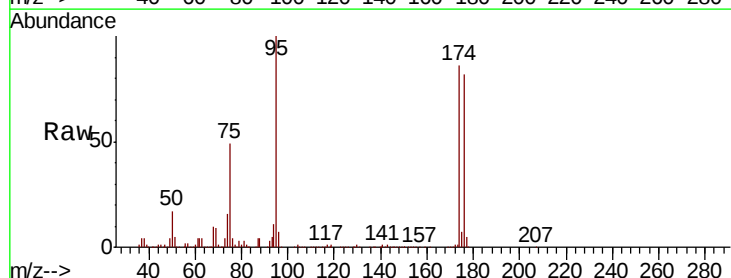
Tgt Ion: 95 Resp: 196909

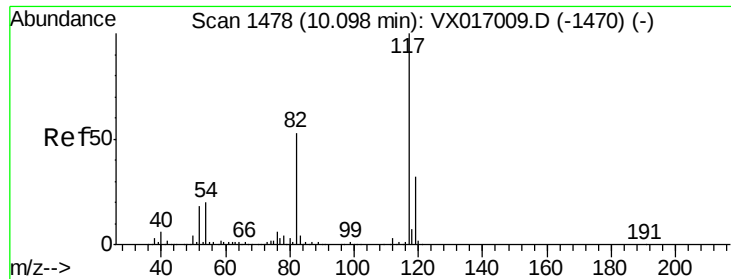
Ion Ratio Lower Upper

95 100

174 82.9 0.0 164.0

176 77.6 0.0 157.6

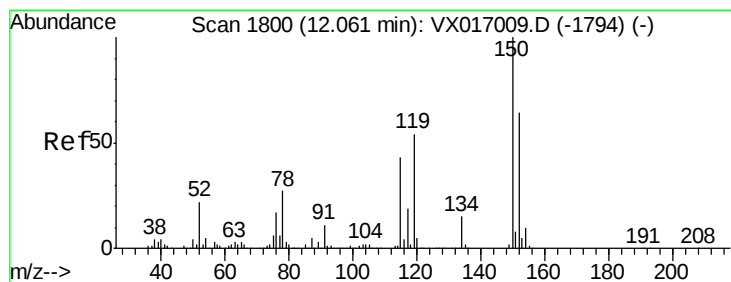
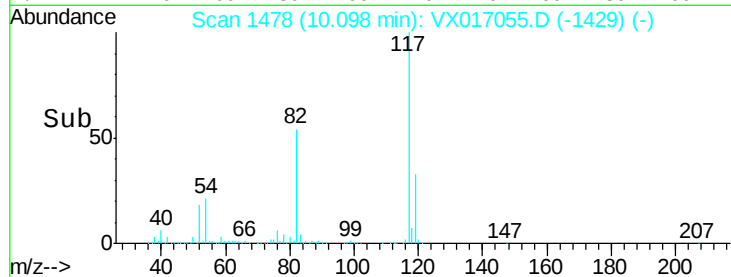
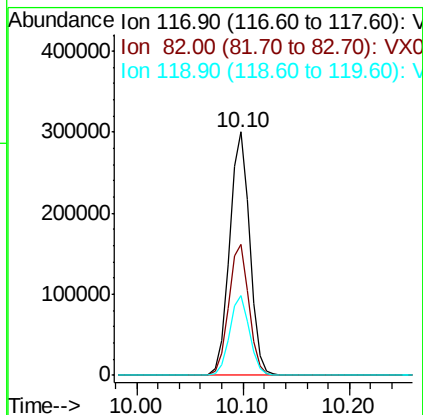
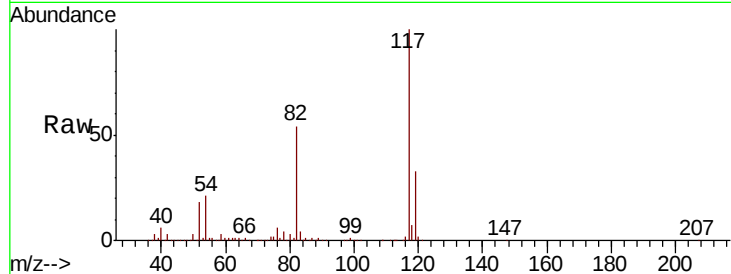




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

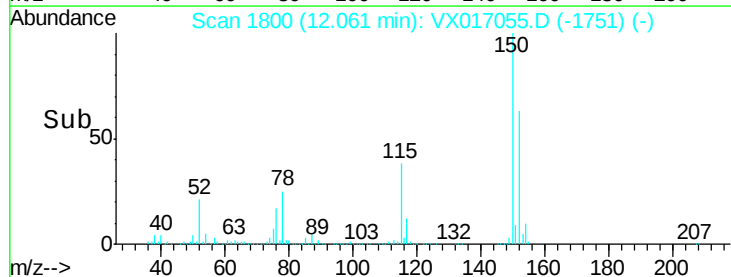
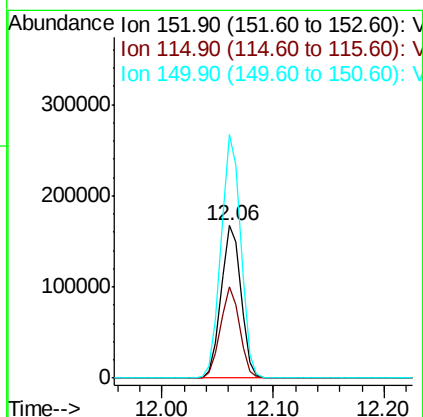
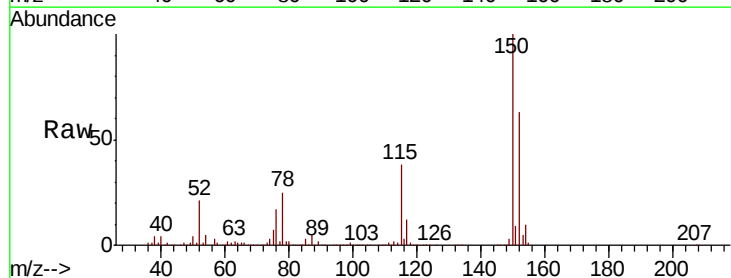
Instrument :
MSVOA_X
ClientSampleId :
40680

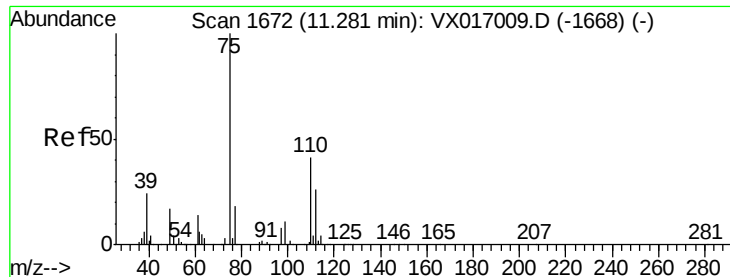
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.6	63.8
119	33.0	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017055.D
Acq: 30 Jun 2020 19:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	40.9	122.7
150	157.6	0.0	351.6





#76

1,2,3-Trichloropropane

Concen: 23.857 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

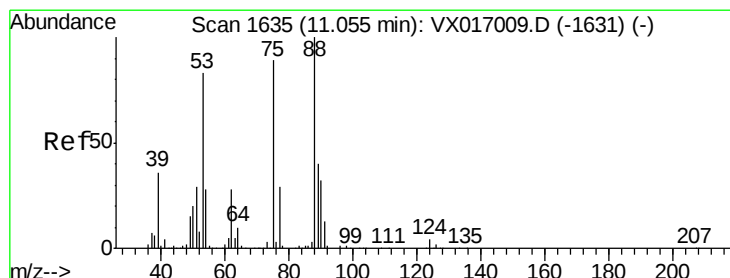
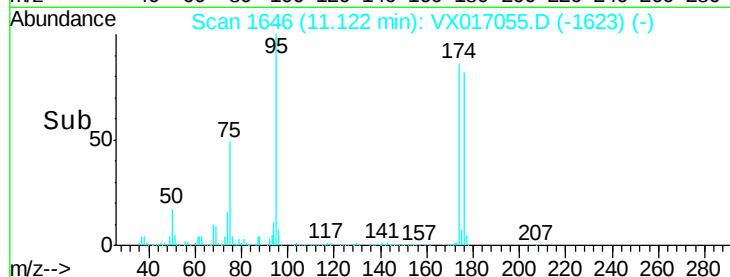
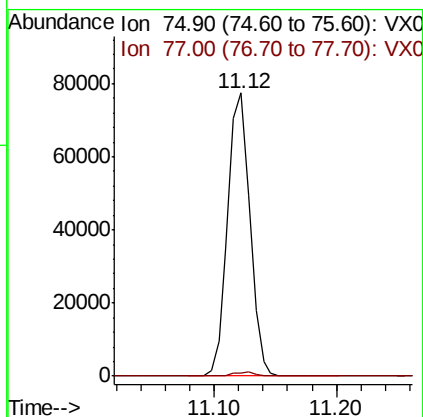
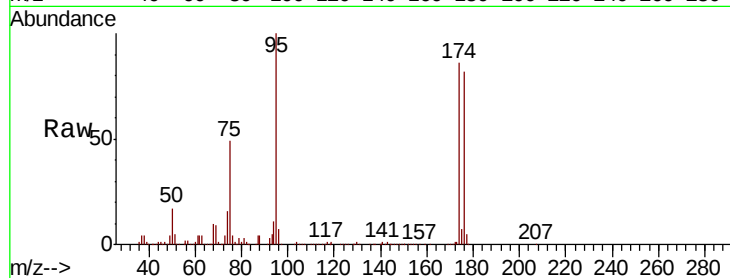
40680

Tot Ion: 75 Resp: 97638

Ion Ratio Lower Upper

75 100

77 1.5 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.782 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017055.D

Acq: 30 Jun 2020 19:04

Tgt Ion: 75 Resp: 97638

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#

