

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
 Data File : VX016979.D
 Acq On : 26 Jun 2020 13:35
 Operator : JC/SP
 Sample : L3112-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 03:02:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 26 08:34:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	207845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	382600	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	197640	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	174739	55.67	ug/l	0.00
Spiked Amount			Recovery	=	111.34%	
35) Dibromofluoromethane	5.47	113	128632	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
50) Toluene-d8	8.70	98	485861	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	11.12	95	204337	57.05	ug/l	0.00
Spiked Amount			Recovery	=	114.10%	

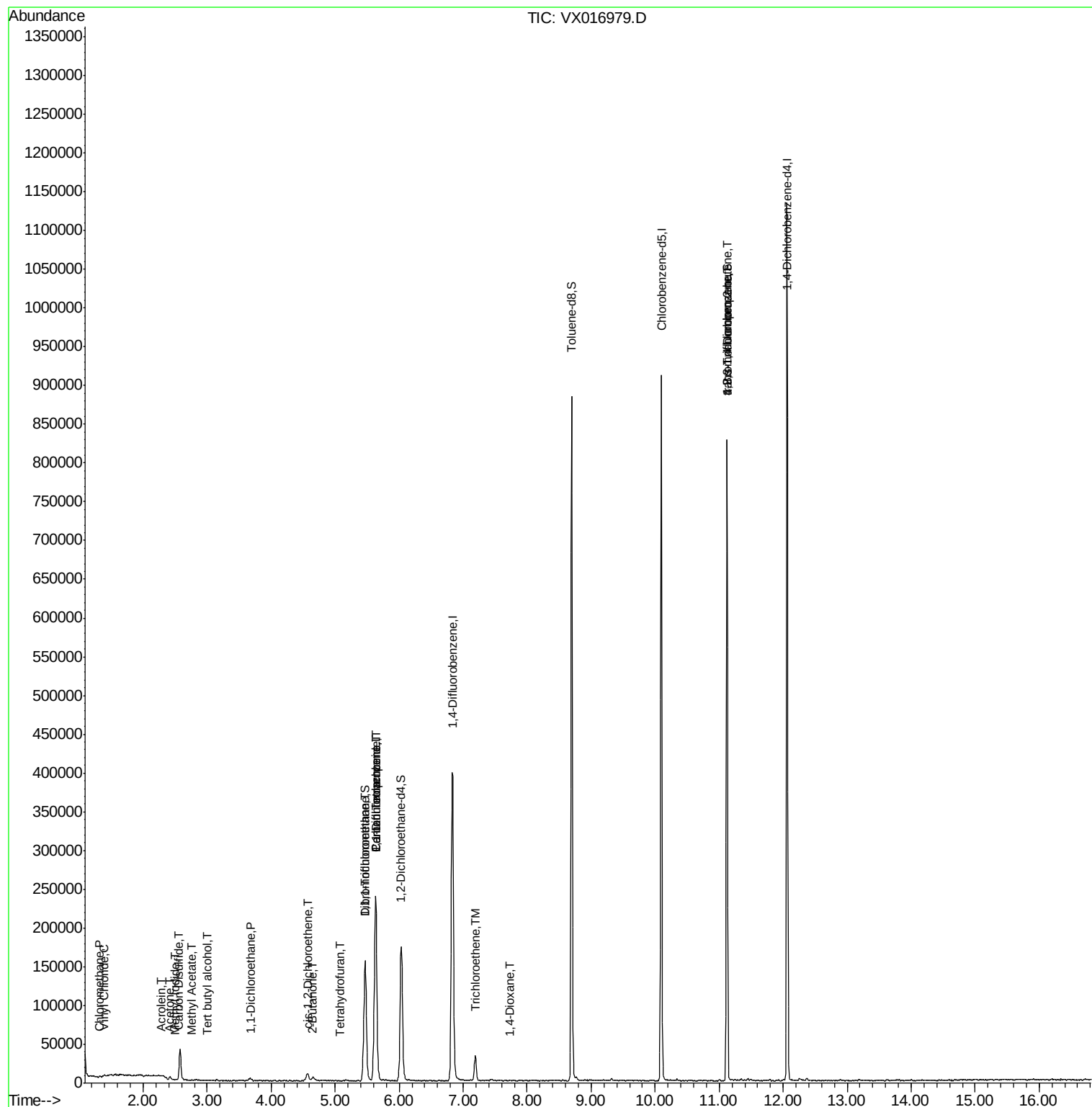
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	865	0.340	ug/l #	55
4) Vinyl Chloride	1.39	62	633	0.243	ug/l	100
5) Bromomethane	1.64	94	216	Below Cal		86
10) Methyl Iodide	2.50	142	217	2.855	ug/l #	78
11) Tert butyl alcohol	3.00	59	238	0.402	ug/l #	1
13) Acrolein	2.27	56	542	1.234	ug/l #	39
16) Acetone	2.42	43	3591	2.927	ug/l	95
17) Carbon Disulfide	2.55	76	1623	0.222	ug/l	97
18) Methyl Acetate	2.75	43	792	0.265	ug/l #	82
24) 1,1-Dichloroethane	3.67	63	3196	0.678	ug/l	95
25) 2-Butanone	4.64	43	377	0.202	ug/l	93
27) cis-1,2-Dichloroethene	4.57	96	5897	2.050	ug/l	87
29) Tetrahydrofuran	5.09	42	415	0.338	ug/l #	38
32) 1,1,1-Trichloroethane	5.47	97	3106	0.732	ug/l #	42
36) 1,1-Dichloropropene	5.63	75	18806	4.964	ug/l #	52
38) Carbon Tetrachloride	5.64	117	23091	5.759	ug/l #	16
44) Trichloroethene	7.19	130	11061	3.809	ug/l	97
49) 1,4-Dioxane	7.74	88	24	0.361	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	113351	27.329	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	113351	69.384	ug/l #	9

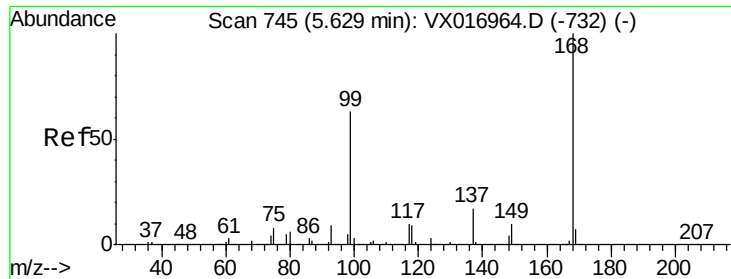
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062620W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

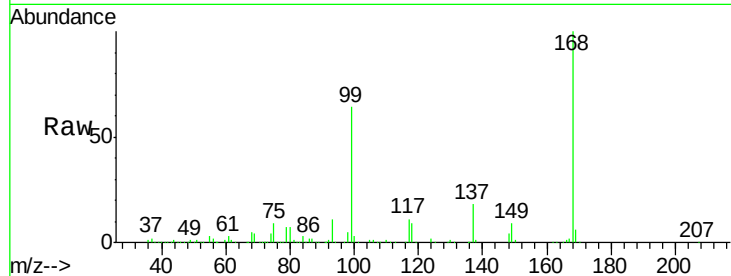
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 207845

Ion Ratio Lower Upper

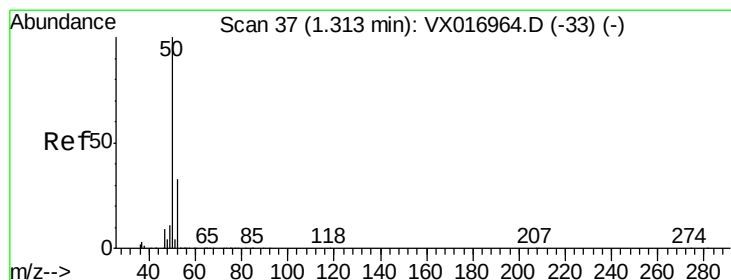
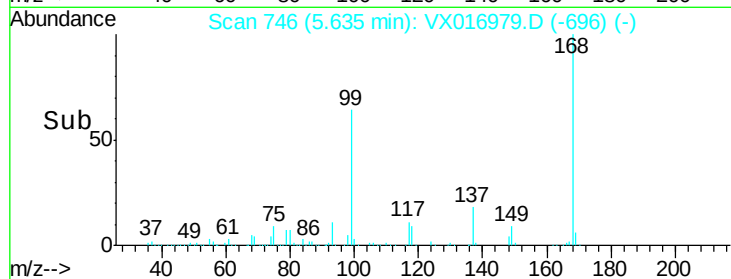
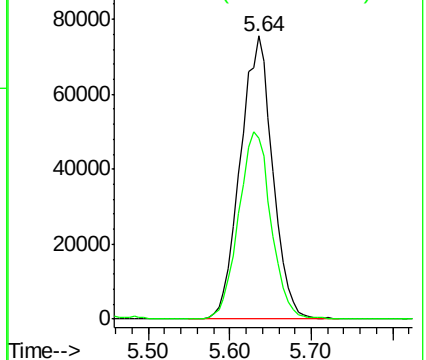
168 100

99 64.0 50.2 75.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.340 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016979.D

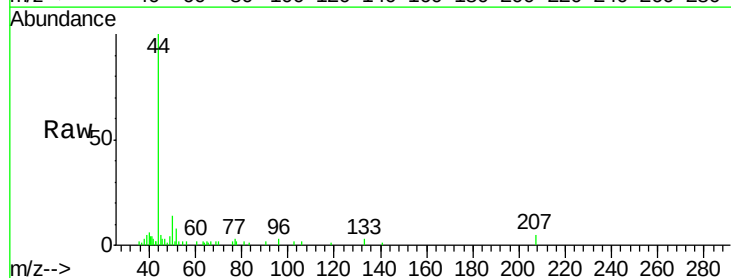
Acq: 26 Jun 2020 13:35

Tgt Ion: 50 Resp: 865

Ion Ratio Lower Upper

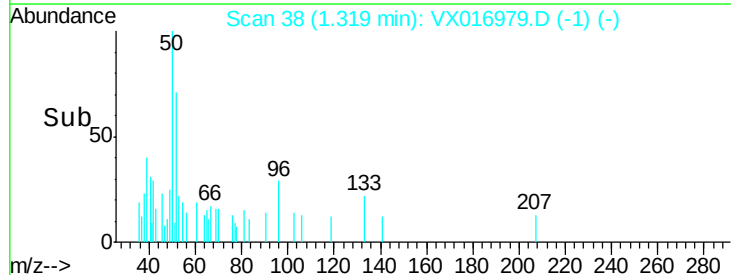
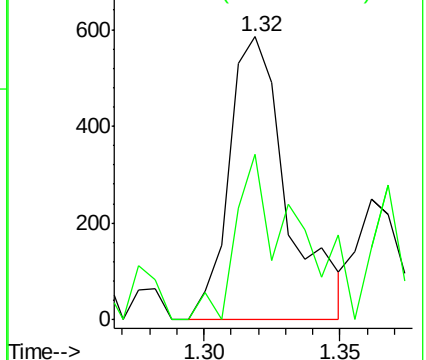
50 100

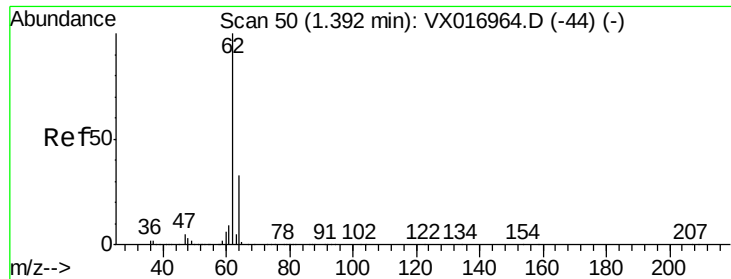
52 58.6 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.243 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

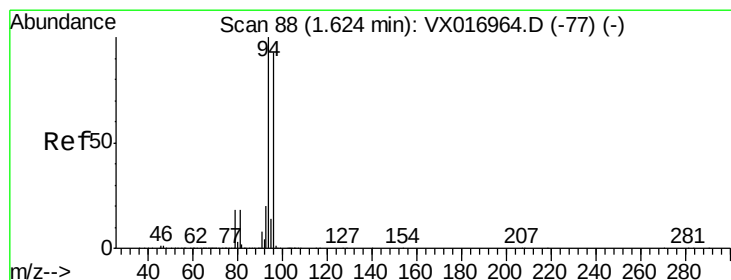
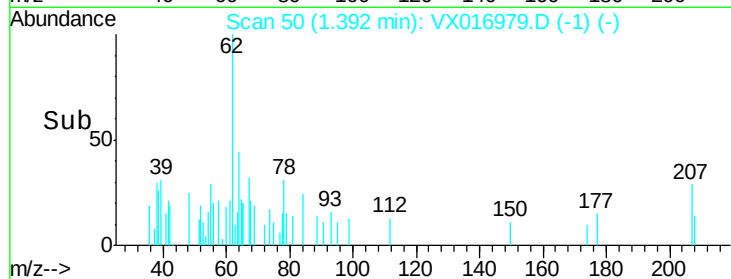
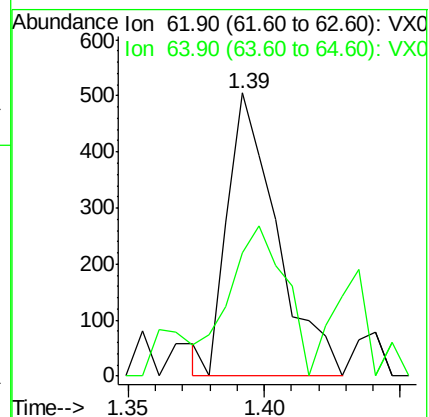
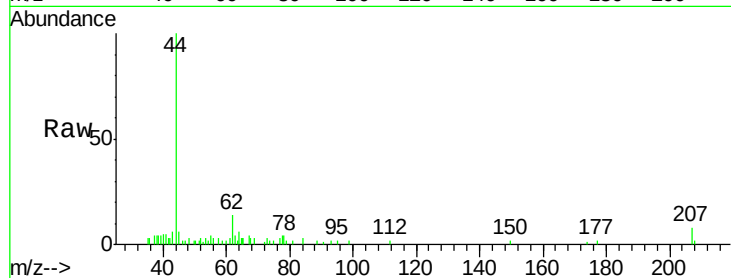
ClientSampleId :

Tot Ion: 62 Resp: 633

Ion Ratio Lower Upper

62 100

64 32.9 26.3 39.5



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016979.D

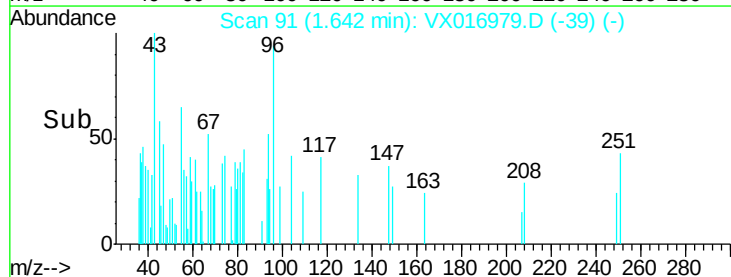
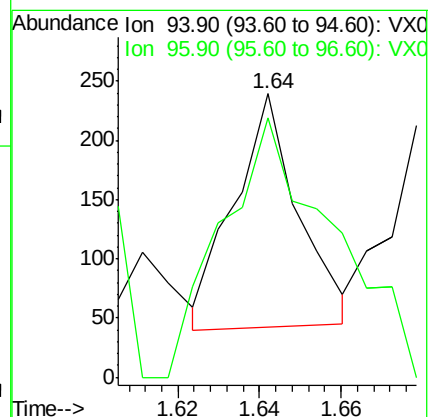
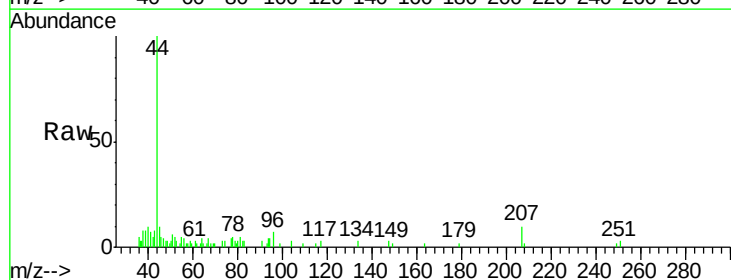
Acq: 26 Jun 2020 13:35

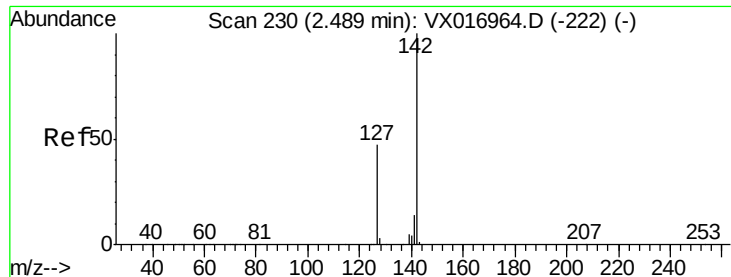
Tgt Ion: 94 Resp: 216

Ion Ratio Lower Upper

94 100

96 79.4 74.2 111.2

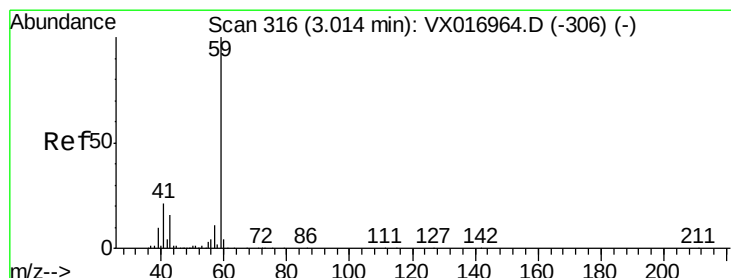
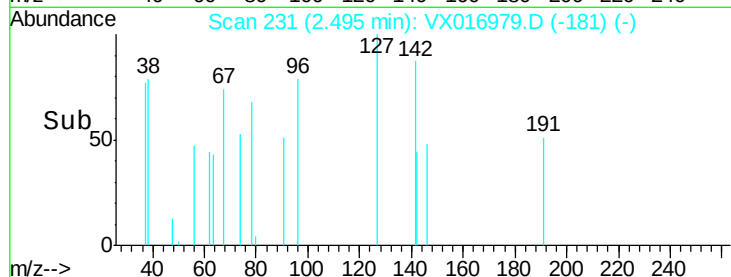
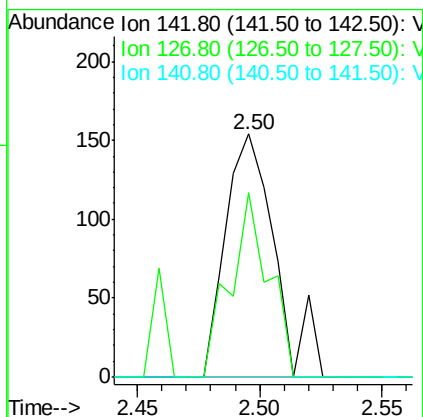
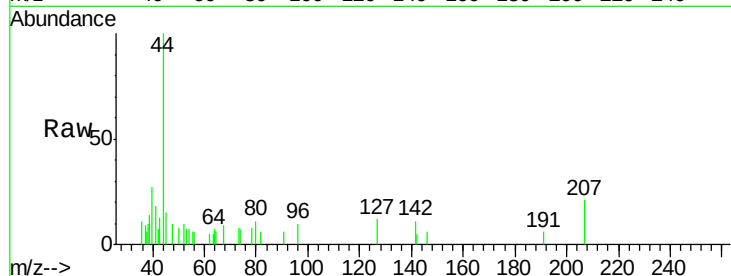




#10
Methvl Iodide
Concen: 2.855 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX016979.D
Acq: 26 Jun 2020 13:35

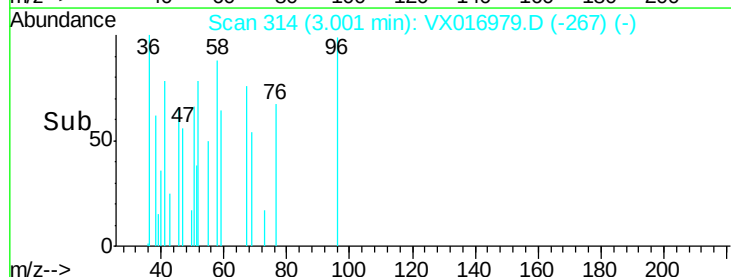
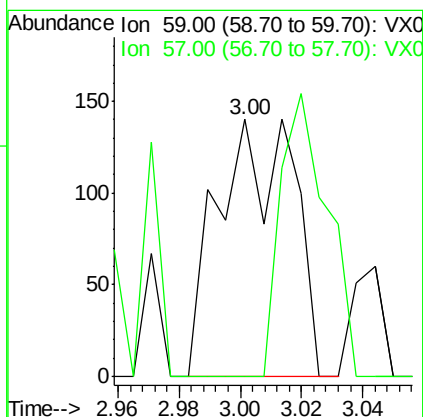
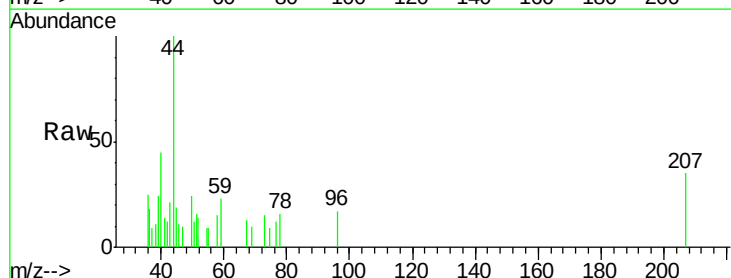
Instrument :
MSVOA_X
ClientSampleId :

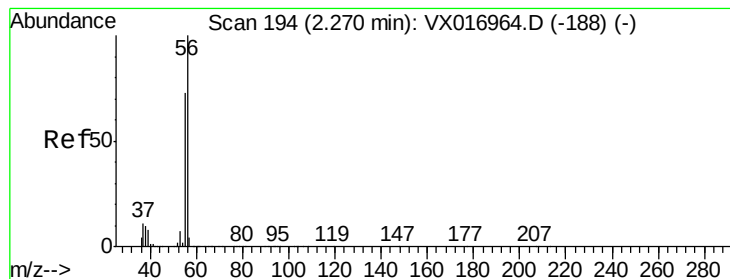
Tot Ion:142 Resp: 217
Ion Ratio Lower Upper
142 100
127 59.0 37.4 56.0#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.402 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX016979.D
Acq: 26 Jun 2020 13:35

Tgt Ion: 59 Resp: 238
Ion Ratio Lower Upper
59 100
57 68.9 8.5 12.7#





#13

Acrolein

Concen: 1.234 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

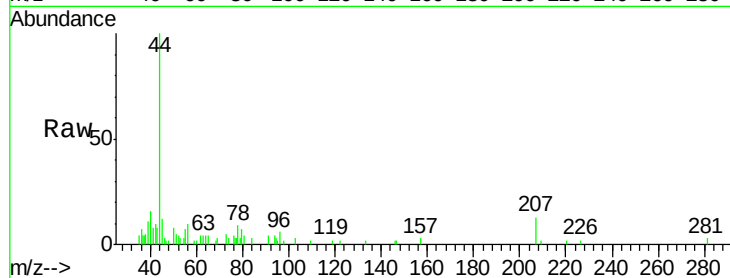
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 542

Ion Ratio Lower Upper

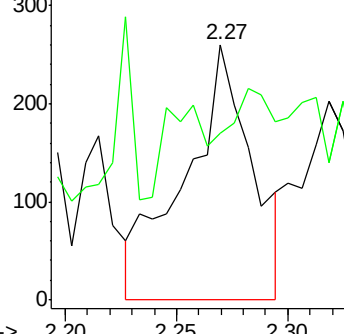
56 100

55 21.4 57.5 86.3#

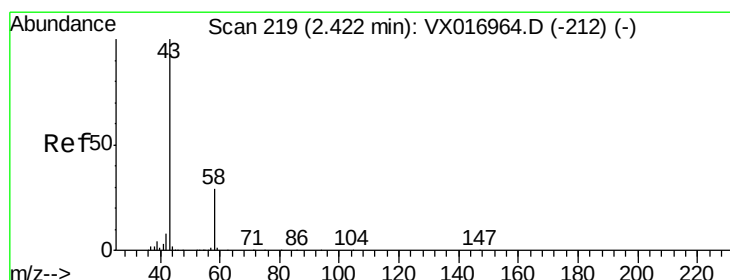
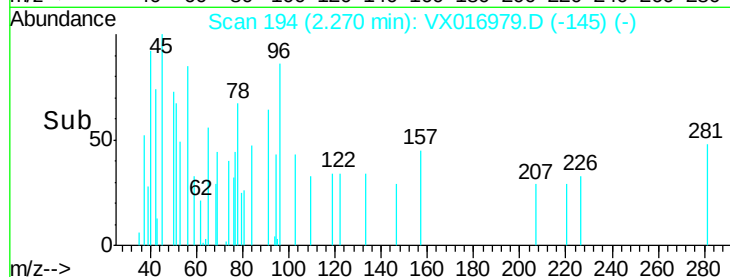


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.927 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016979.D

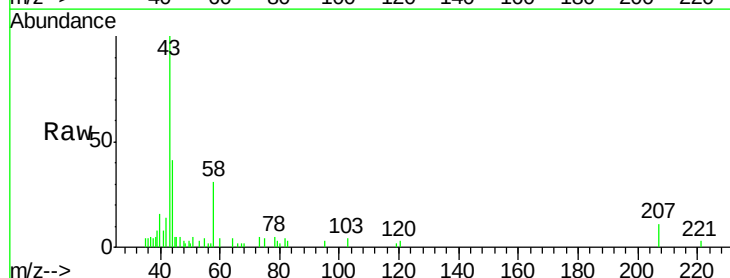
Acq: 26 Jun 2020 13:35

Tgt Ion: 43 Resp: 3591

Ion Ratio Lower Upper

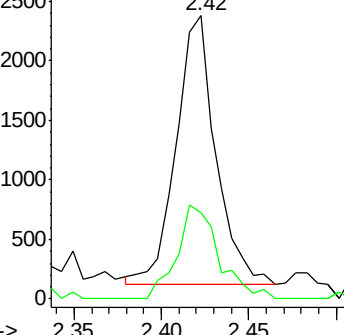
43 100

58 32.3 23.5 35.3

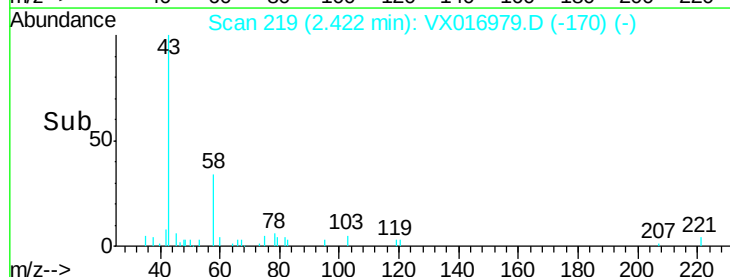


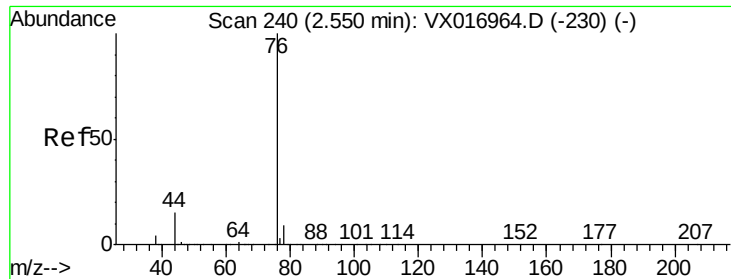
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

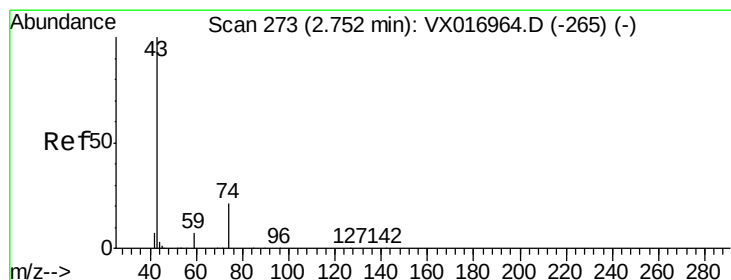
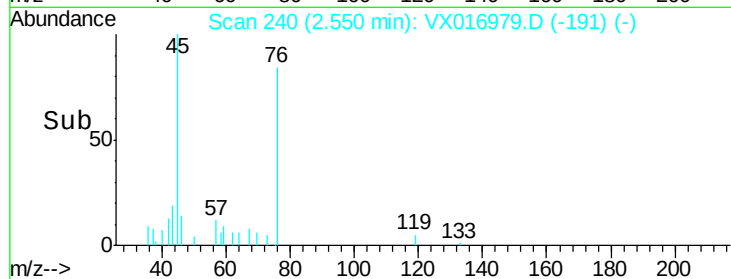
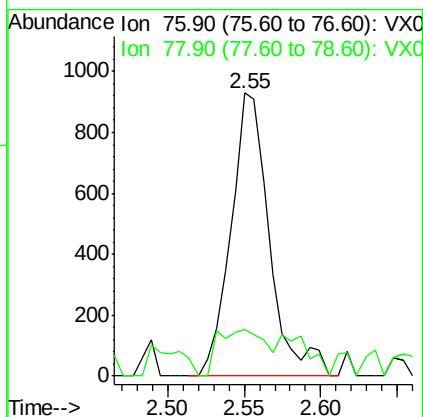
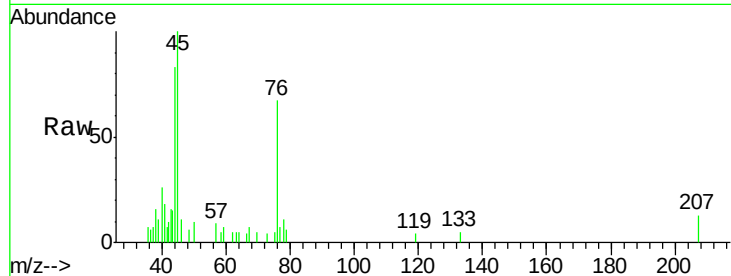




#17
Carbon Disulfide
Concen: 0.222 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX016979.D
Acq: 26 Jun 2020 13:35

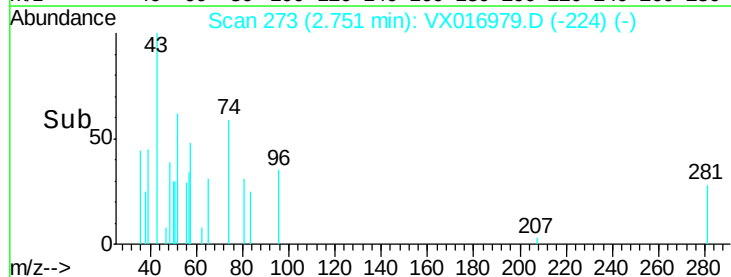
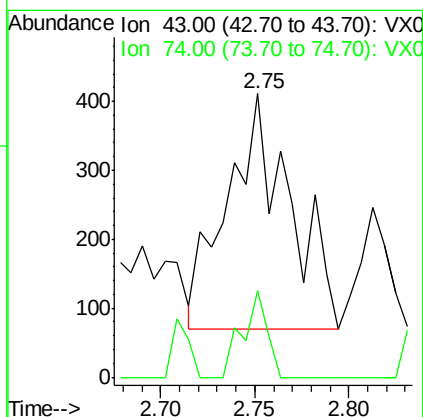
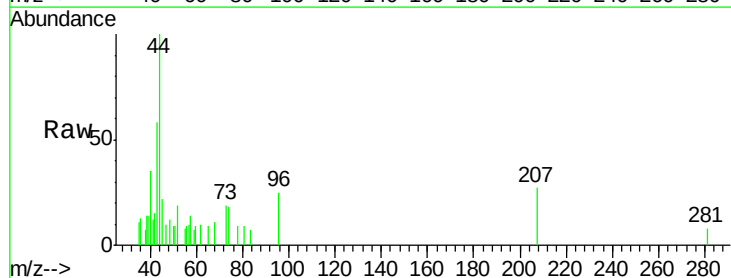
Instrument :
MSVOA_X
ClientSampled :

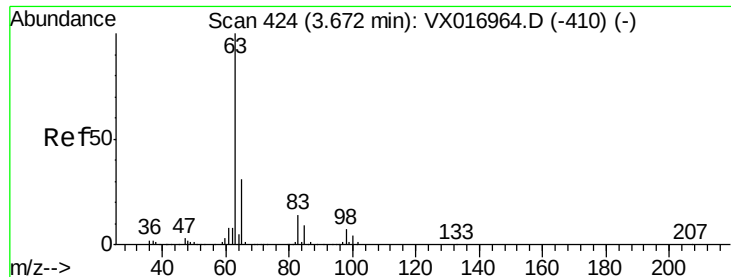
Tot Ion: 76 Resp: 1623
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.4



#18
Methyl Acetate
Concen: 0.265 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016979.D
Acq: 26 Jun 2020 13:35

Tgt Ion: 43 Resp: 792
Ion Ratio Lower Upper
43 100
74 14.3 18.3 27.5#





#24

1,1-Dichloroethane

Concen: 0.678 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

ClientSampleId :

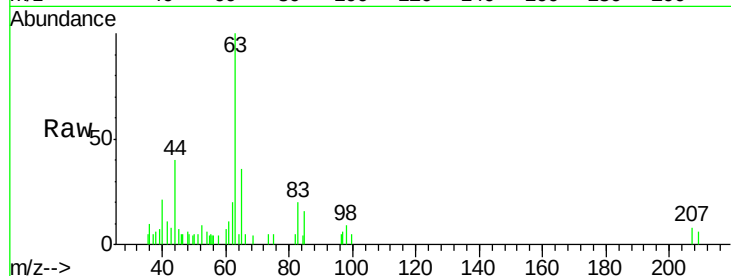
Tot Ion: 63 Resp: 3196

Ion Ratio Lower Upper

63 100

98 9.2 3.6 10.8

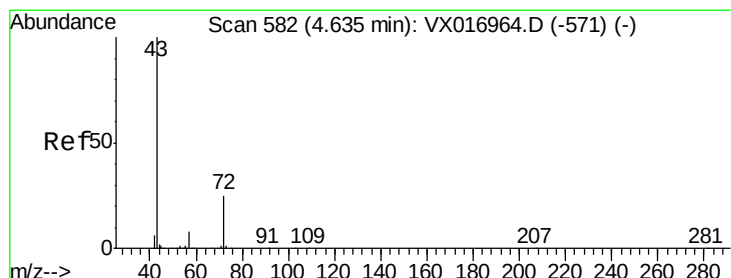
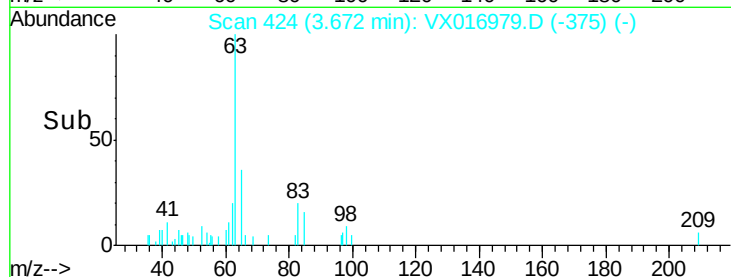
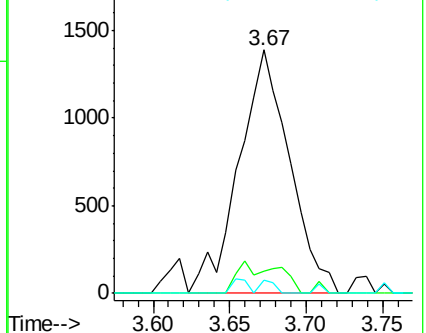
100 5.5 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.202 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016979.D

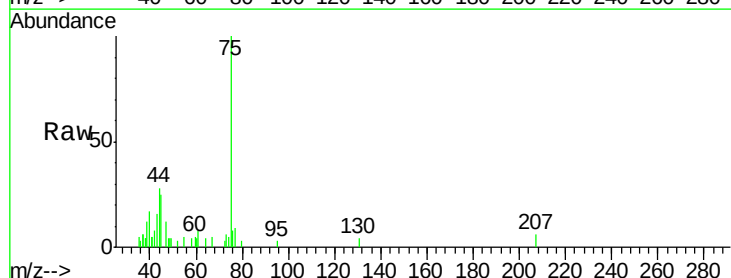
Acq: 26 Jun 2020 13:35

Tgt Ion: 43 Resp: 377

Ion Ratio Lower Upper

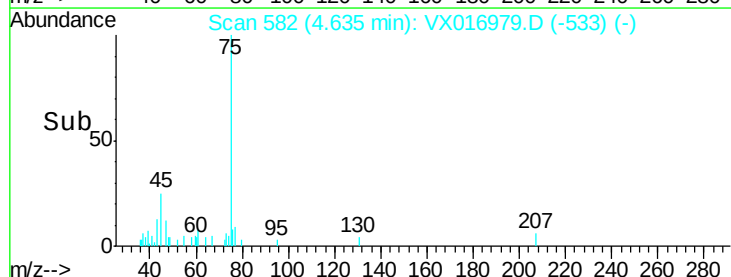
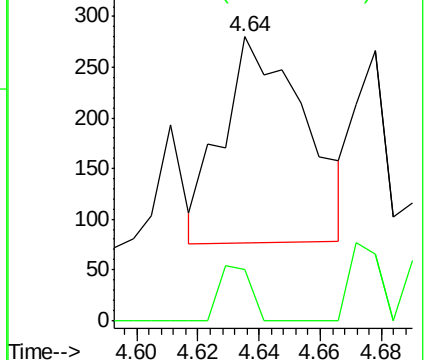
43 100

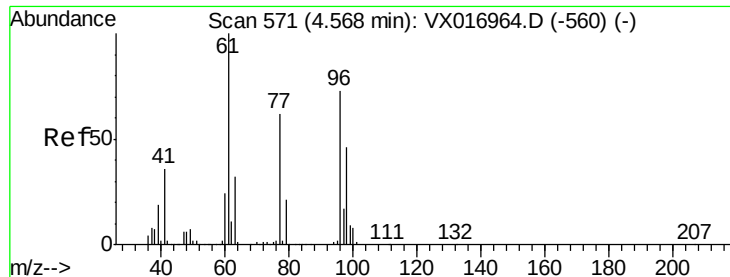
72 28.7 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



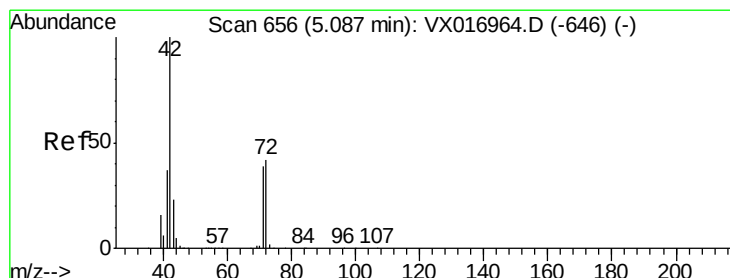
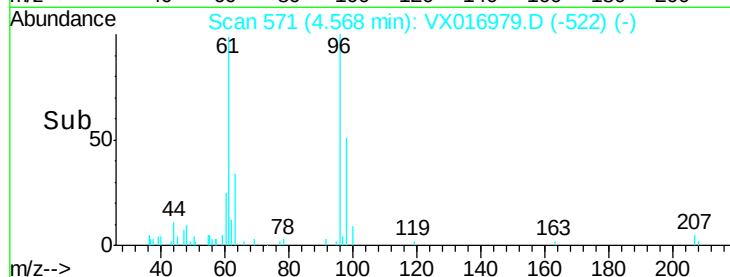
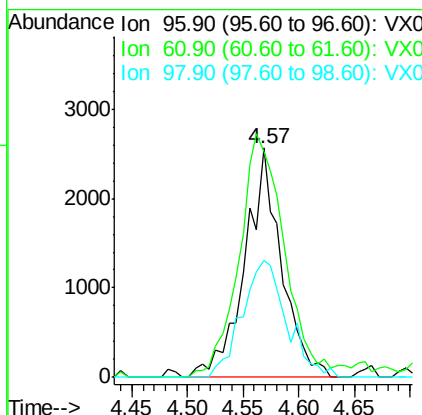
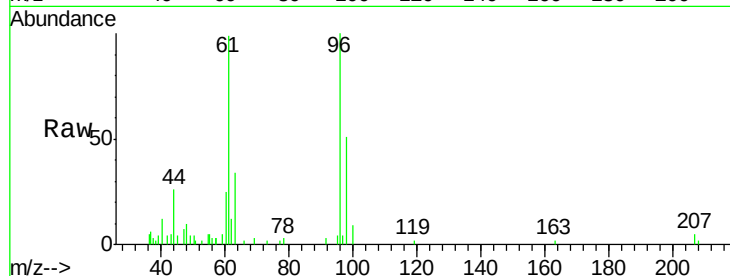


#27

cis-1,2-Dichloroethene
 Concen: 2.050 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016979.D
 Acq: 26 Jun 2020 13:35

Instrument :
 MSVOA_X
 ClientSampleId :

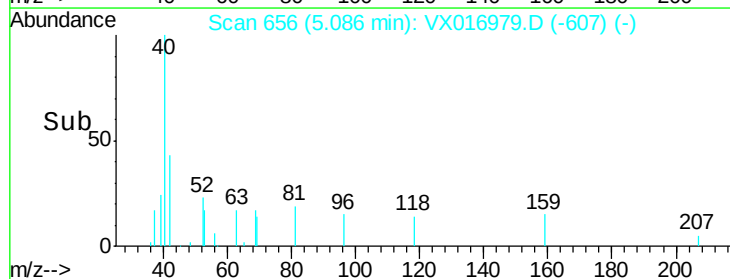
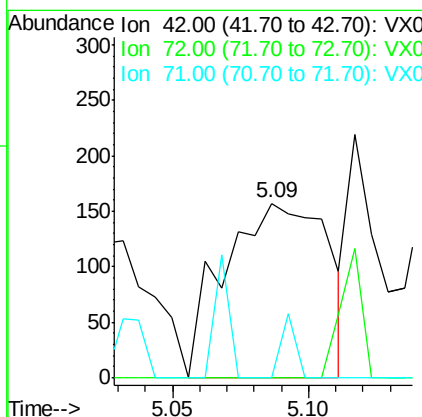
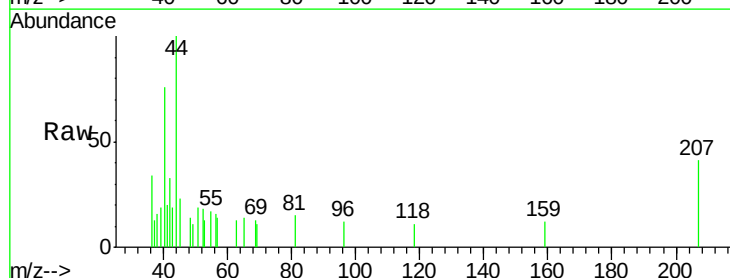
Tot Ion	Ratio	Lower	Upper
96	100		
61	131.1	0.0	307.2
98	61.9	0.0	128.4

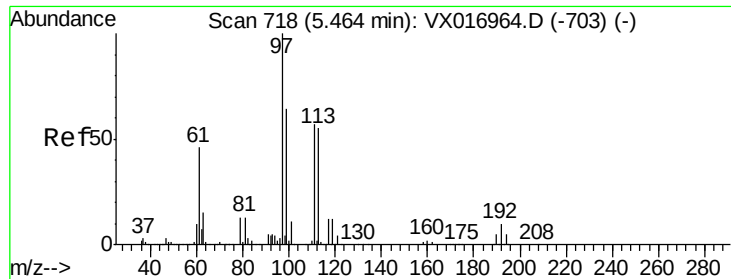


#29

Tetrahydrofuran
 Concen: 0.338 ug/l
 RT: 5.09 min Scan# 656
 Delta R.T. -0.00 min
 Lab File: VX016979.D
 Acq: 26 Jun 2020 13:35

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1#
71	5.1	32.1	48.1#





#32

1,1,1-Trichloroethane

Concen: 0.732 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

ClientSampled :

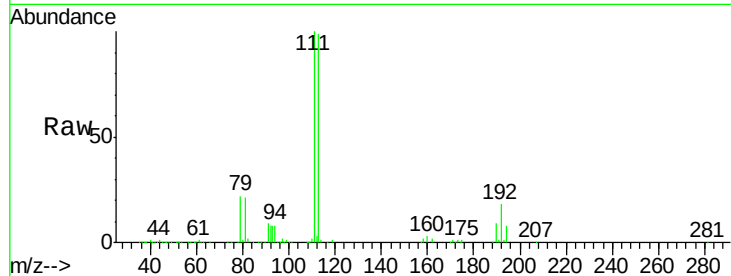
Tot Ion: 97 Resp: 3106

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.2#

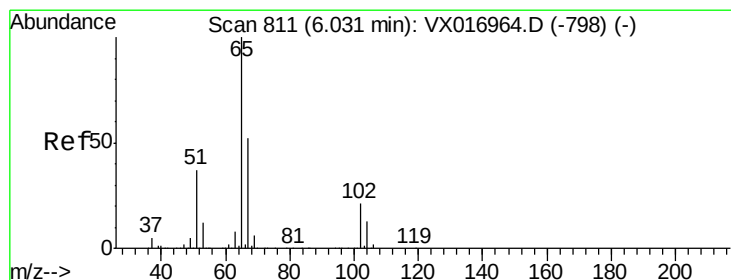
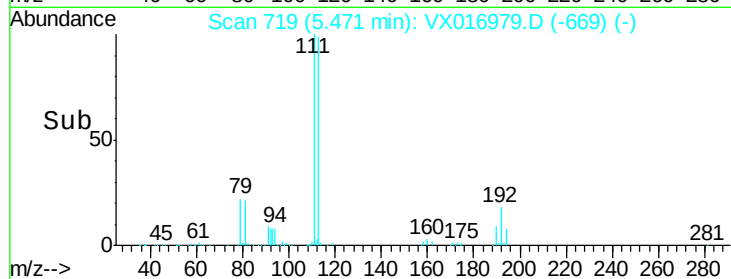
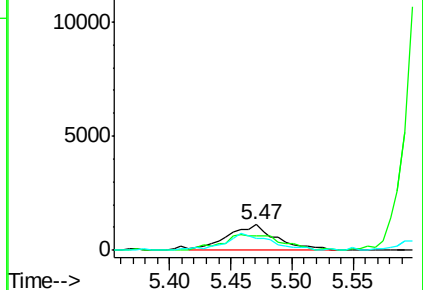
61 63.2 37.0 55.4#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.673 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016979.D

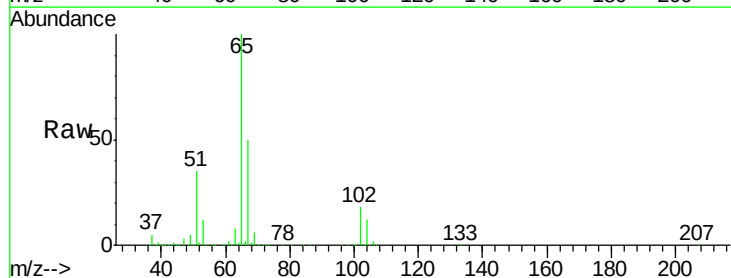
Acq: 26 Jun 2020 13:35

Tgt Ion: 65 Resp: 174739

Ion Ratio Lower Upper

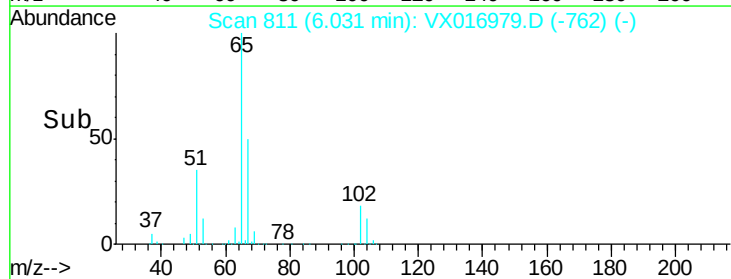
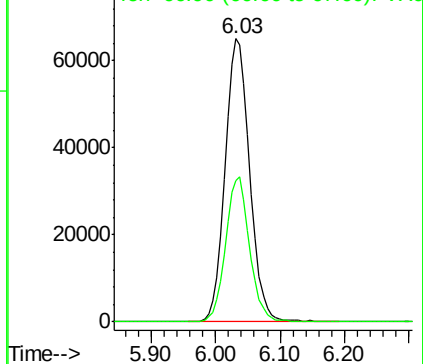
65 100

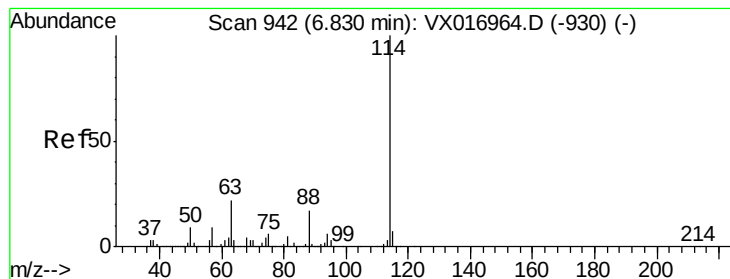
67 49.8 0.0 102.8



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: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

ClientSampleId :

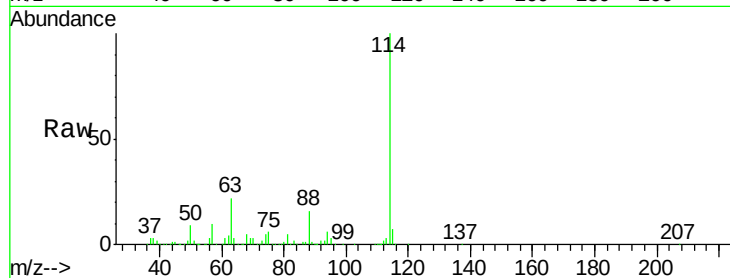
Tot Ion:114 Resp: 382600

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.4

88 16.3 0.0 33.2



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

200000

150000

100000

50000

0

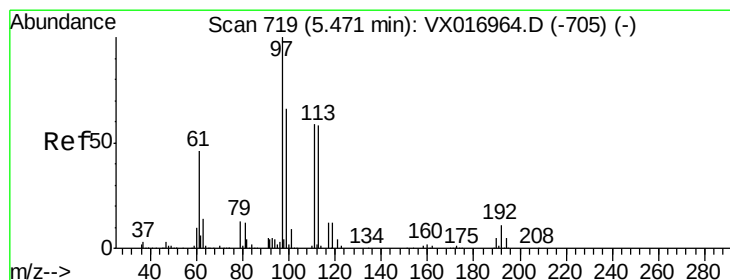
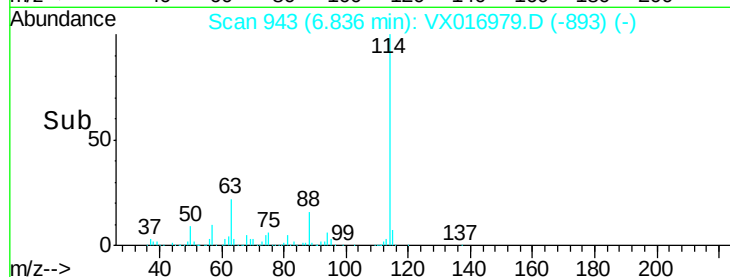
6.84

6.80

6.90

7.00

Time-->



#35

Dibromofluoromethane

Concen: 50.903 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

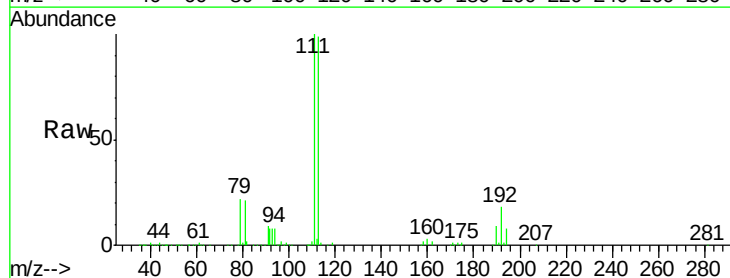
Tgt Ion:113 Resp: 128632

Ion Ratio Lower Upper

113 100

111 101.1 84.3 126.5

192 18.4 15.2 22.8



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

60000

50000

40000

30000

20000

10000

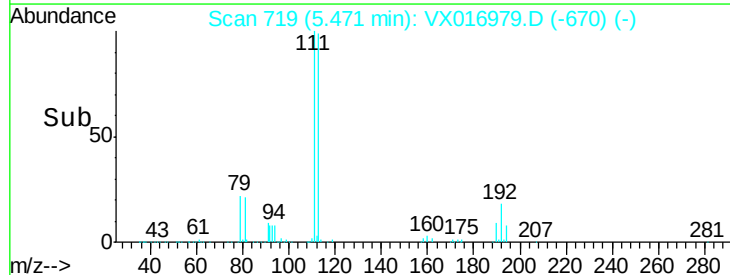
0

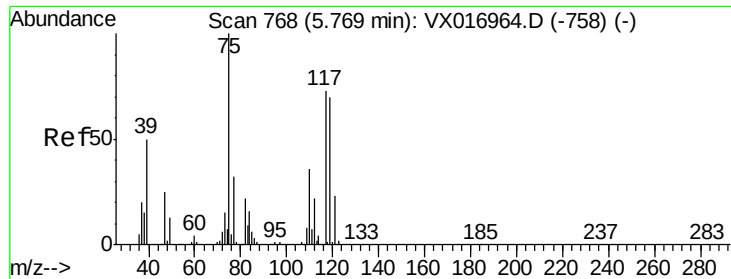
5.47

5.40

5.60

Time-->

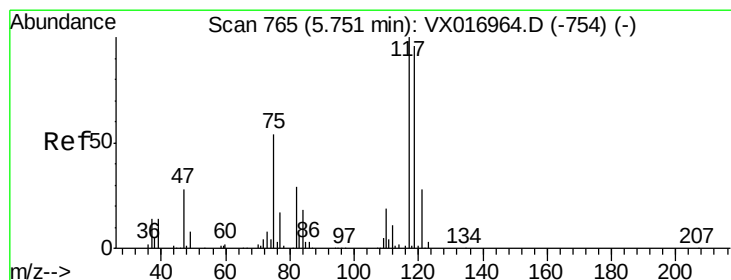
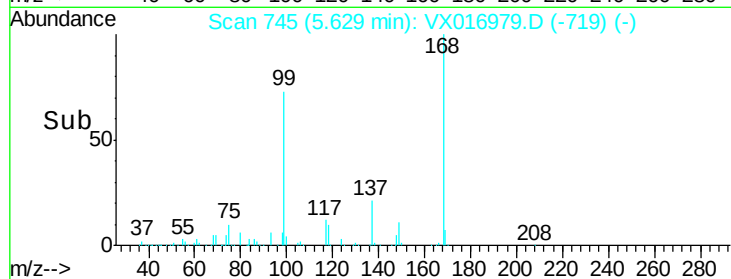
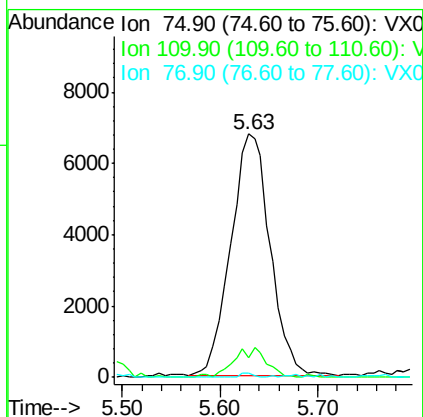
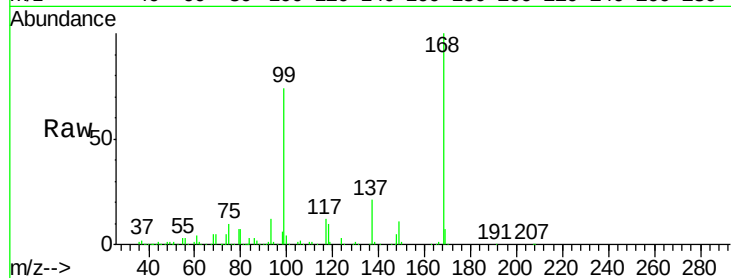




#36
 1,1-Dichloropropene
 Concen: 4.964 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016979.D
 Acq: 26 Jun 2020 13:35

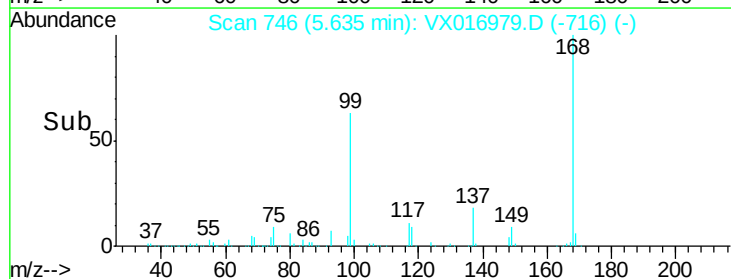
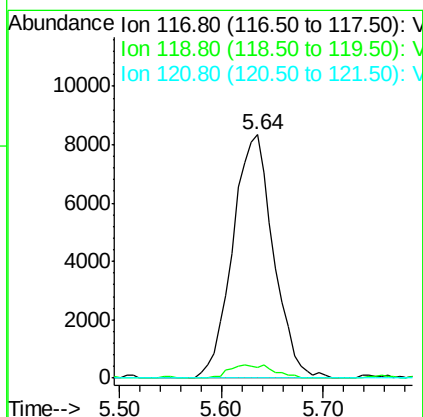
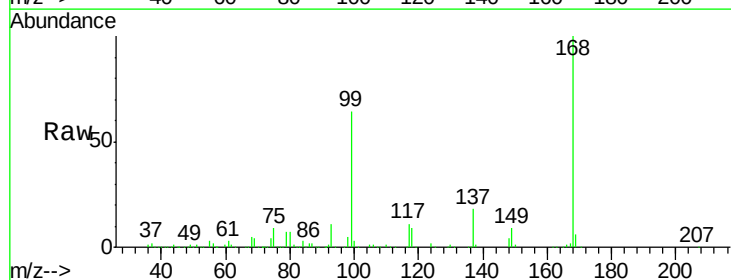
Instrument :
 MSVOA_X
 ClientSampleId :

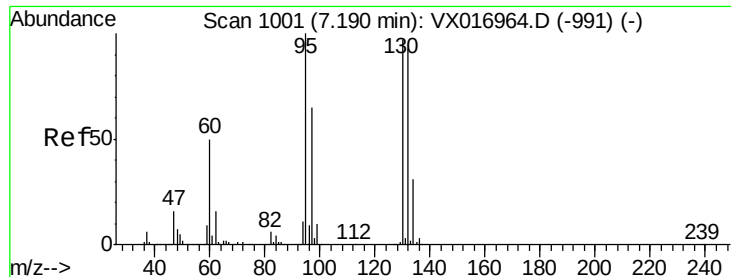
Tot Ion: 75 Resp: 18806
 Ion Ratio Lower Upper
 75 100
 110 10.3 17.2 51.6#
 77 0.5 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 5.759 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016979.D
 Acq: 26 Jun 2020 13:35

Tgt Ion:117 Resp: 23091
 Ion Ratio Lower Upper
 117 100
 119 4.4 76.6 114.8#
 121 0.0 22.5 33.7#





#44

Trichloroethene

Concen: 3.809 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

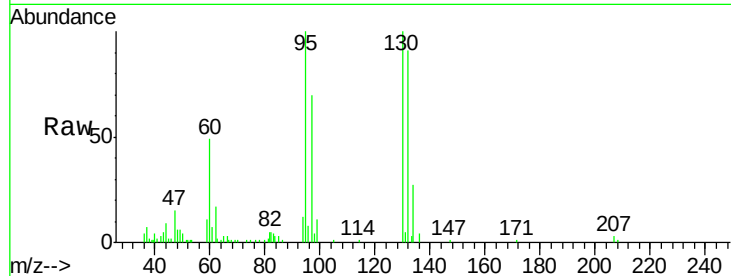
ClientSampleId :

Tot Ion:130 Resp: 11061

Ion Ratio Lower Upper

130 100

95 99.8 0.0 206.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

6000

5000

4000

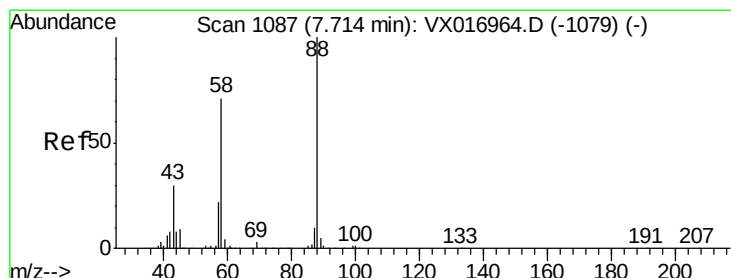
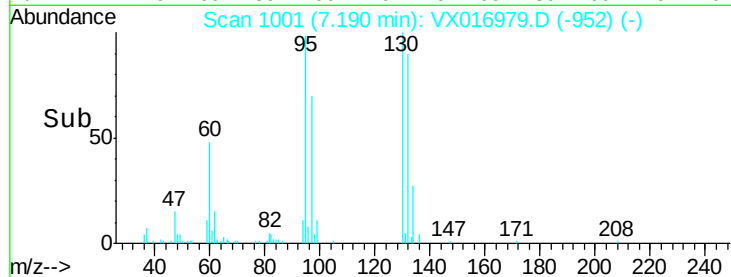
3000

2000

1000

0

Time--> 7.10 7.15 7.20 7.25



#49

1,4-Dioxane

Concen: 0.361 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

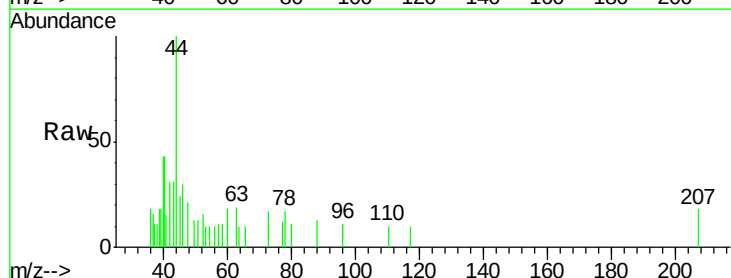
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 266.7 28.1 42.1#

58 950.0 56.1 84.1#



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

400

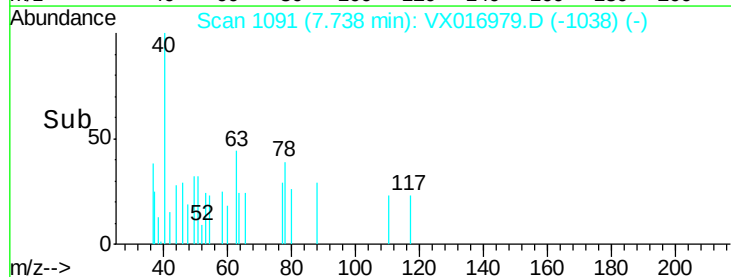
300

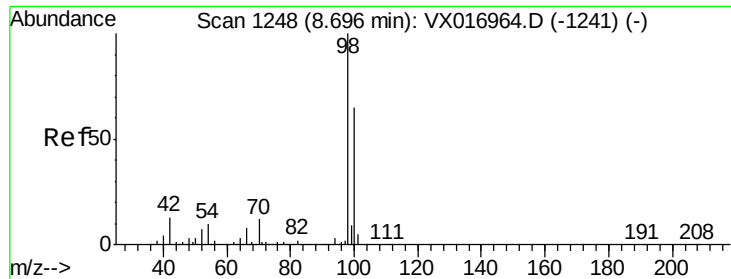
200

100

0

Time--> 7.72 7.73 7.74 7.75





#50

Toluene-d8

Concen: 52.453 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

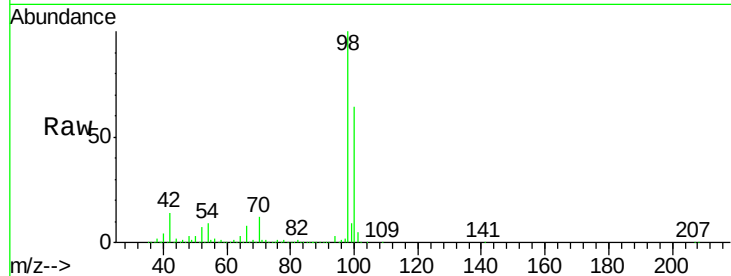
ClientSampleId :

Tot Ion: 98 Resp: 485861

Ion Ratio Lower Upper

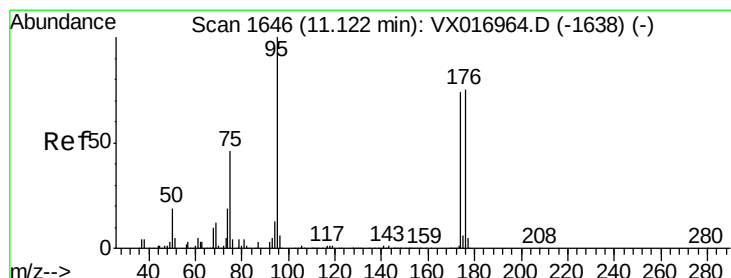
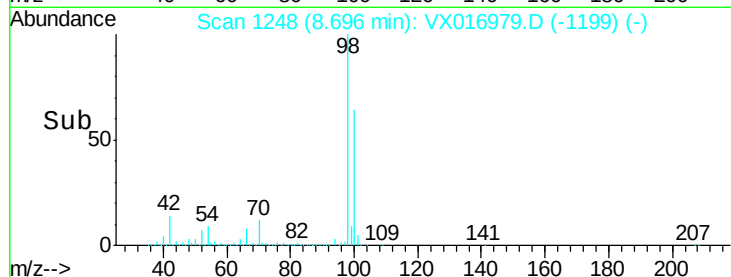
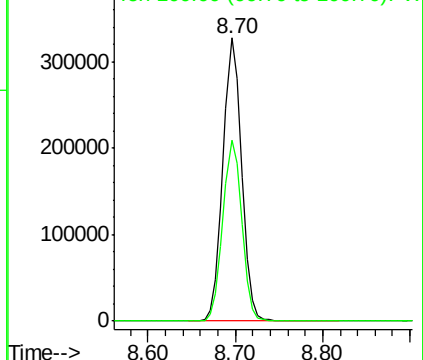
98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 57.048 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

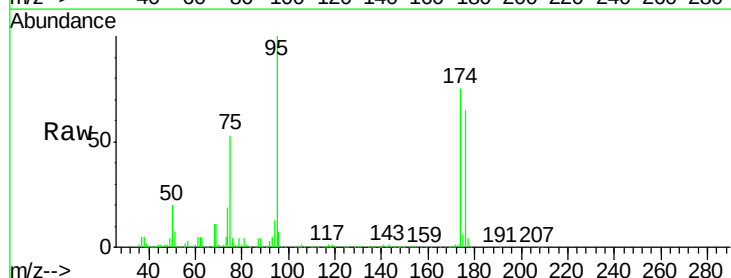
Tgt Ion: 95 Resp: 204337

Ion Ratio Lower Upper

95 100

174 73.7 0.0 149.6

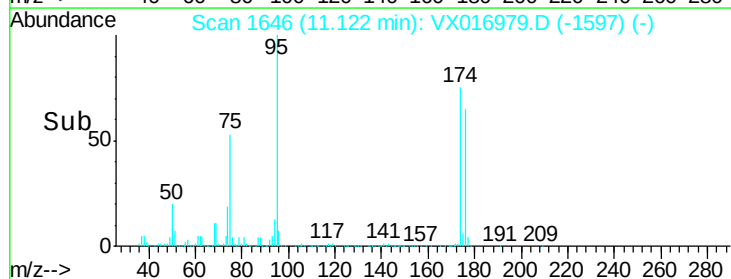
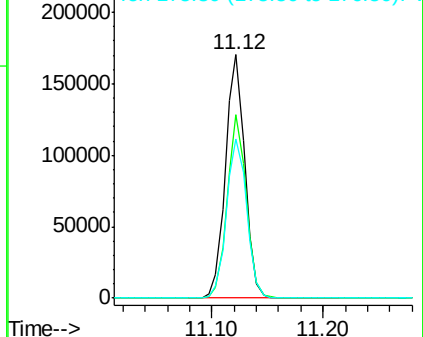
176 68.4 0.0 148.2

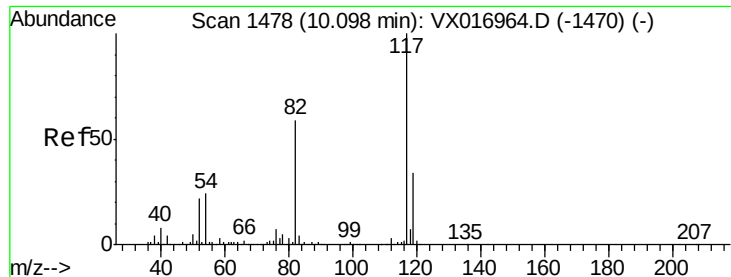


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

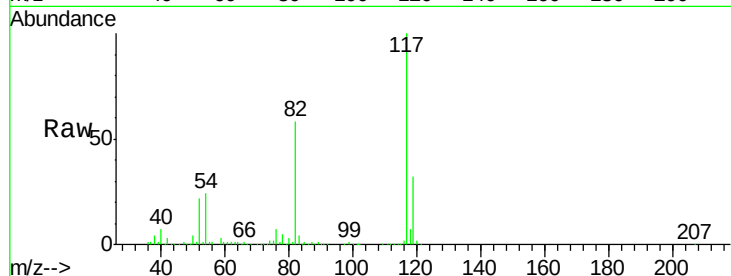




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016979.D
Acq: 26 Jun 2020 13:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.8	70.2
119	32.3	27.3	40.9

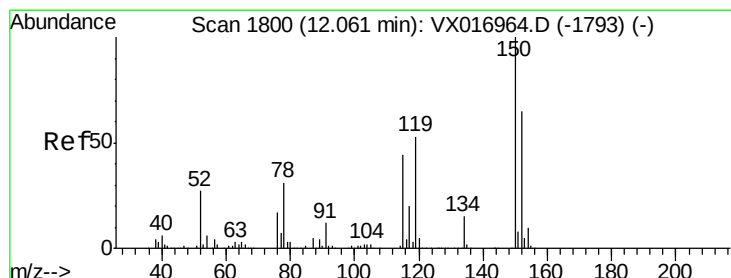
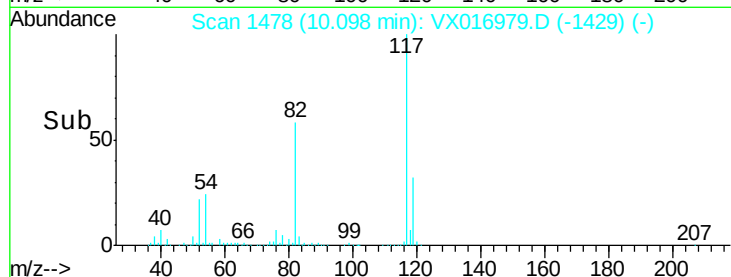
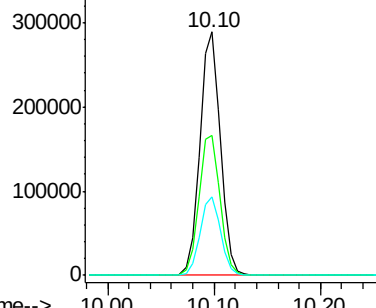


Abundance

Ion 116.90 (116.60 to 117.60): V

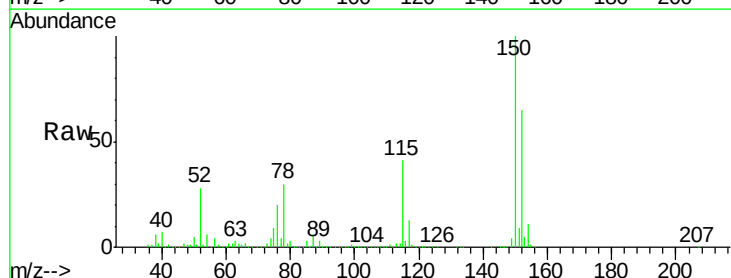
Ion 82.00 (81.70 to 82.70): V

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: VX016979.D
Acq: 26 Jun 2020 13:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.0	42.8	128.4
150	158.7	0.0	347.8

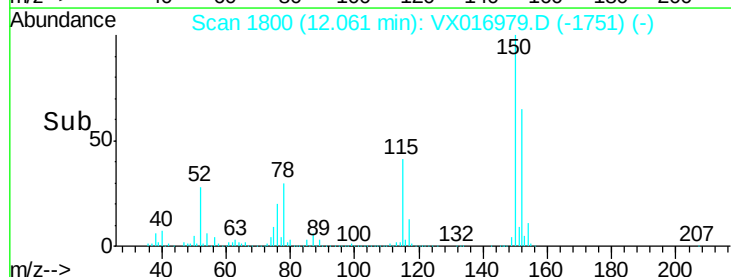
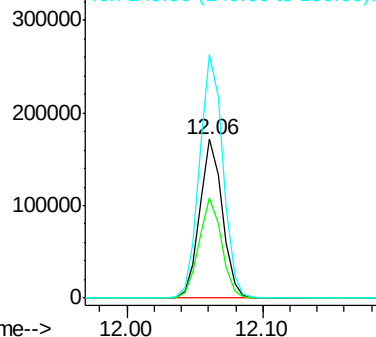


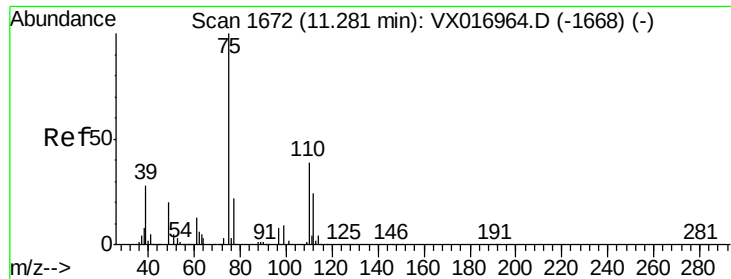
Abundance

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: 27.329 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Instrument :

MSVOA_X

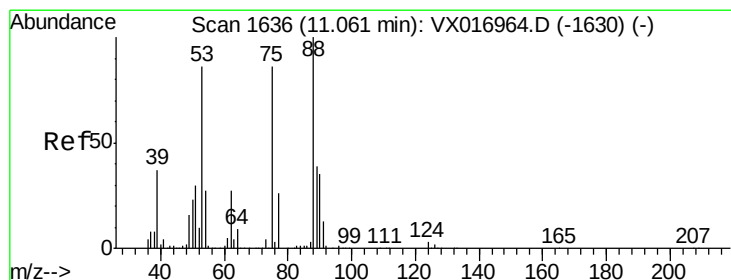
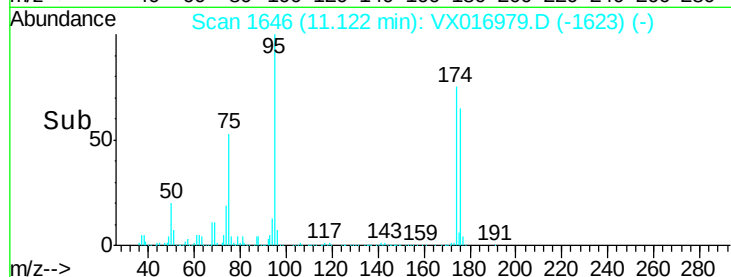
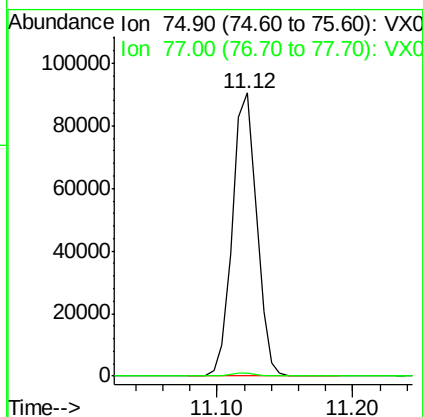
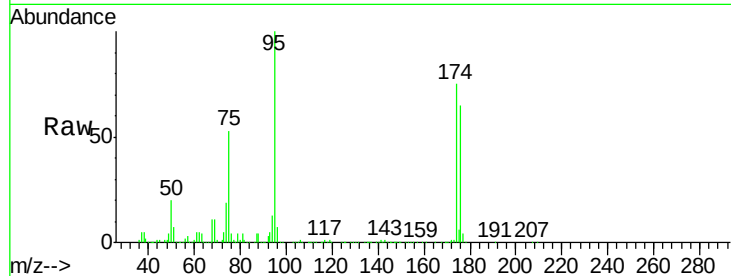
ClientSampled :

Tot Ion: 75 Resp: 113351

Ion Ratio Lower Upper

75 100

77 1.2 20.3 61.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.384 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016979.D

Acq: 26 Jun 2020 13:35

Tgt Ion: 75 Resp: 113351

Ion Ratio Lower Upper

75 100

53 0.3 81.9 122.9#

89 0.2 35.5 53.3#

