

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
 Data File : VX016993.D
 Acq On : 26 Jun 2020 18:54
 Operator : JC/SP
 Sample : L3112-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 04:28:27 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	5.63	168	244814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	437209	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	442803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	220612	50.00	ug/l	0.00

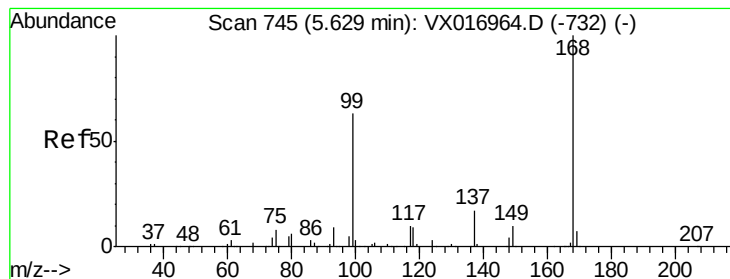
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	184719	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
35) Dibromofluoromethane	5.46	113	144882	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
50) Toluene-d8	8.70	98	540538	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.12	95	226205	55.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.52%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.18	85	566	0.243 ug/l #	67
3) Chloromethane	1.32	50	1326	0.442 ug/l	90
4) Vinyl Chloride	1.40	62	8841	2.878 ug/l	97
5) Bromomethane	1.64	94	312	Below Cal #	72
10) Methyl Iodide	2.50	142	96	2.810 ug/l #	85
11) Tert butyl alcohol	3.01	59	207	0.297 ug/l #	1
13) Acrolein	2.26	56	202	0.390 ug/l #	14
16) Acetone	2.42	43	6123	4.237 ug/l #	88
20) Methylene Chloride	2.84	84	668	0.203 ug/l	85
21) trans-1,2-Dichloroethene	3.15	96	752	0.245 ug/l #	24
25) 2-Butanone	4.64	43	760	0.345 ug/l #	50
27) cis-1,2-Dichloroethene	4.57	96	34283	10.119 ug/l	88
29) Tetrahydrofuran	5.09	42	470	0.325 ug/l #	50
36) 1,1-Dichloropropene	5.63	75	20649	4.770 ug/l #	51
38) Carbon Tetrachloride	5.63	117	26069	5.690 ug/l #	16
44) Trichloroethene	7.19	130	89173	26.870 ug/l	94
49) 1,4-Dioxane	7.71	88	41	0.539 ug/l #	63
76) 1,2,3-Trichloropropane	11.12	75	117501	25.379 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	117501	64.435 ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

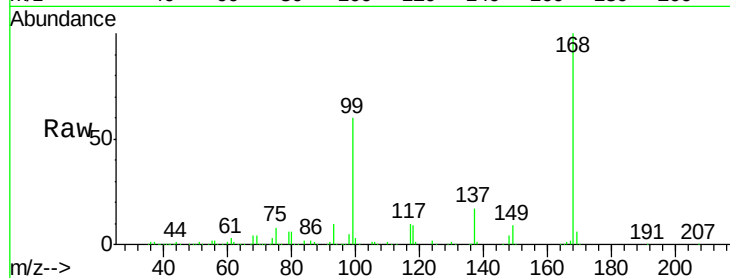
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 244814

Ion Ratio Lower Upper

168 100

99 59.7 50.2 75.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

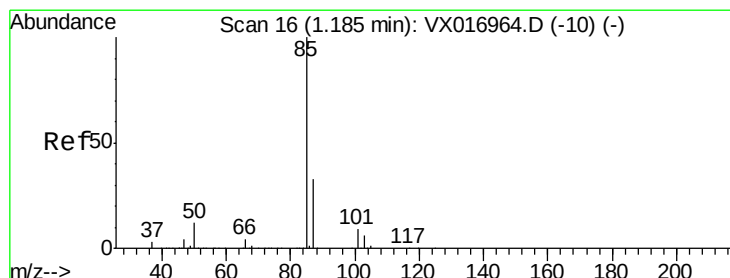
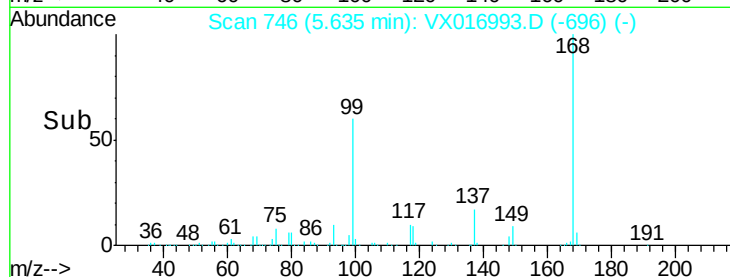
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.243 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016993.D

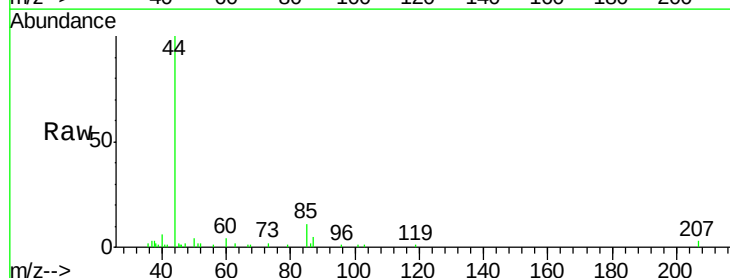
Acq: 26 Jun 2020 18:54

Tgt Ion: 85 Resp: 566

Ion Ratio Lower Upper

85 100

87 50.9 16.3 48.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

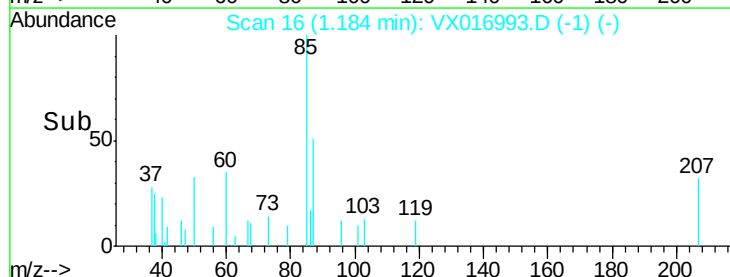
600

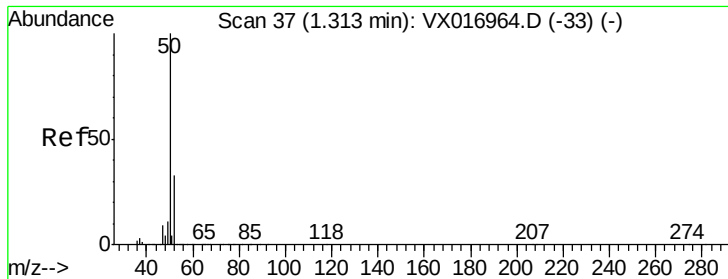
400

200

0

Time-->





#3

Chloromethane

Concen: 0.442 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

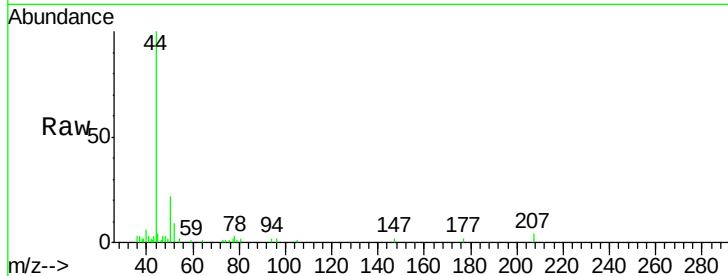
ClientSampleId :

Tot Ion: 50 Resp: 1326

Ion Ratio Lower Upper

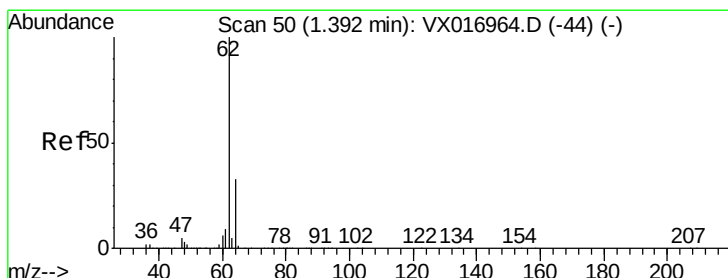
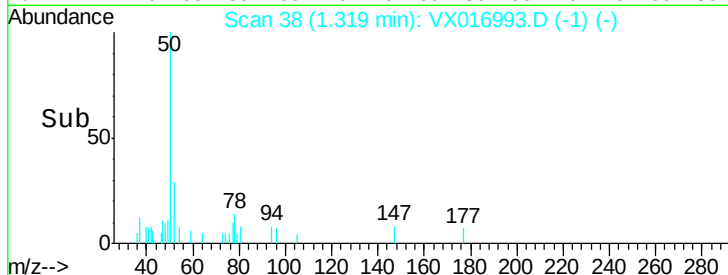
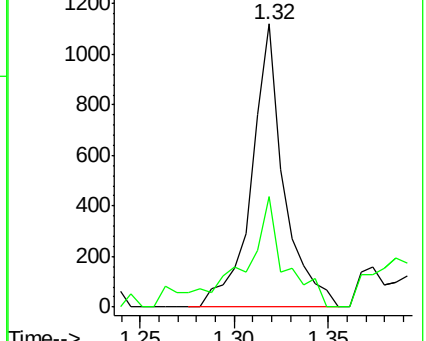
50 100

52 39.0 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: 2.878 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX016993.D

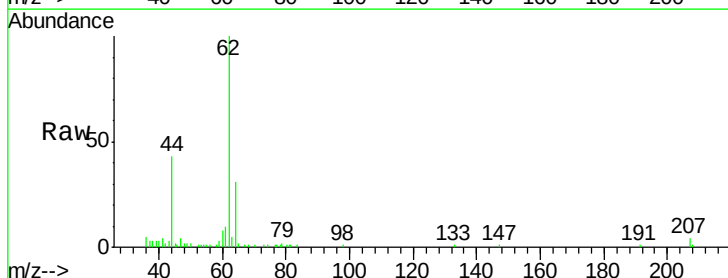
Acq: 26 Jun 2020 18:54

Tgt Ion: 62 Resp: 8841

Ion Ratio Lower Upper

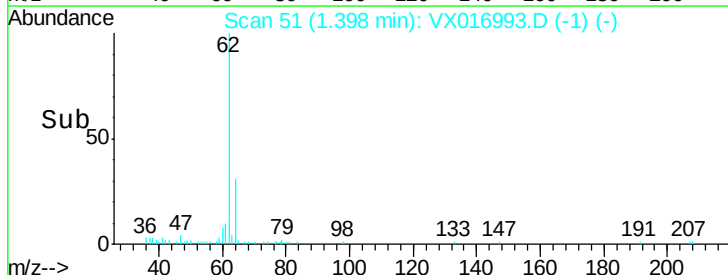
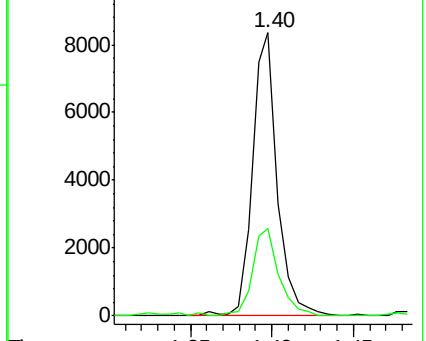
62 100

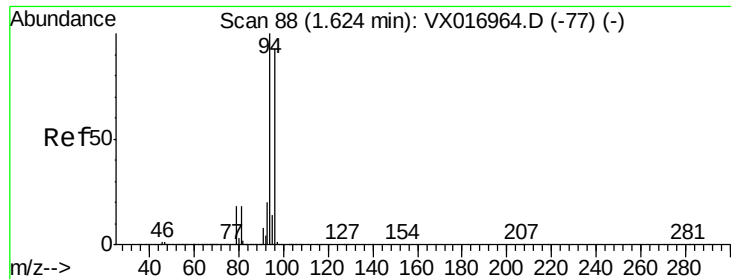
64 31.0 26.3 39.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

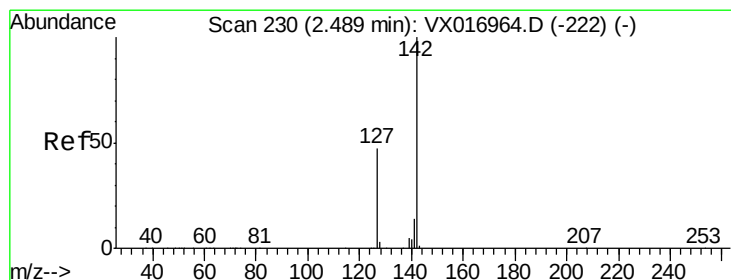
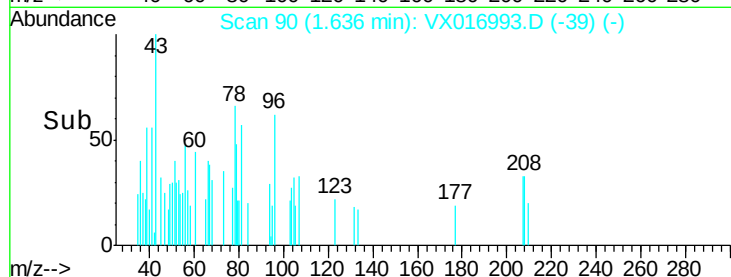
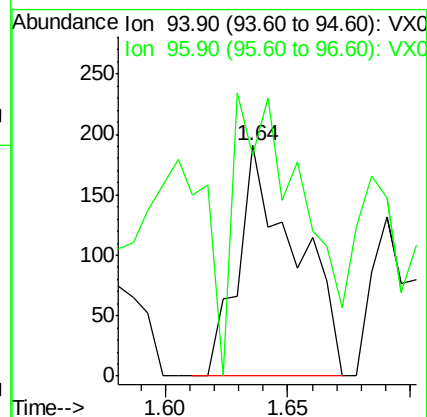
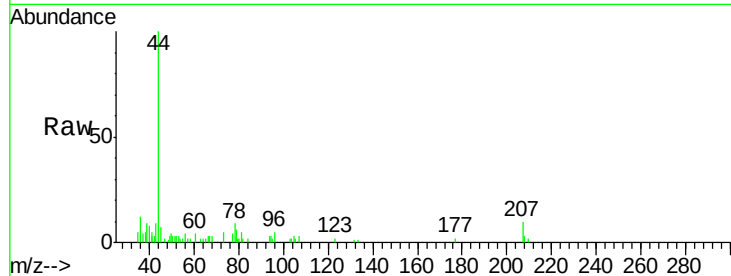
ClientSampled :

Tot Ion: 94 Resp: 312

Ion Ratio Lower Upper

94 100

96 66.0 74.2 111.2#



#10

Methyl Iodide

Concen: 2.810 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

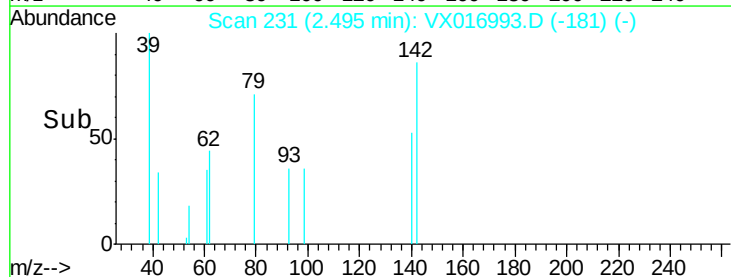
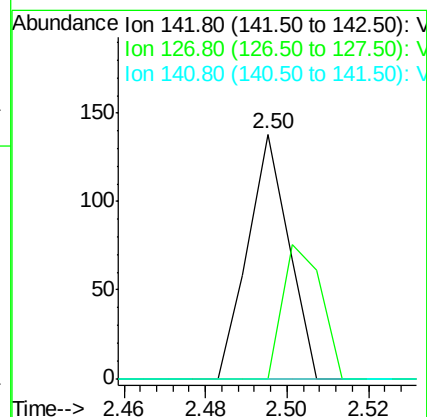
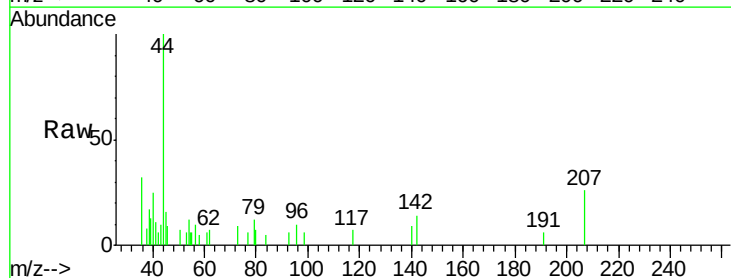
Tgt Ion: 142 Resp: 96

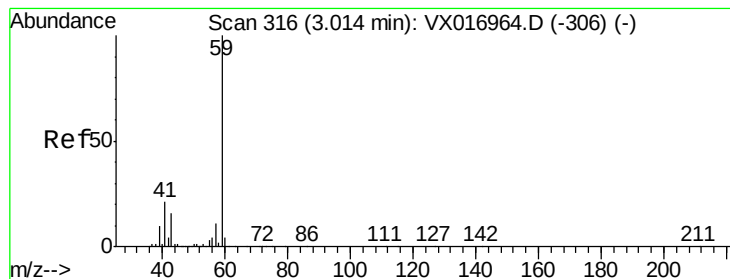
Ion Ratio Lower Upper

142 100

127 52.1 37.4 56.0

141 0.0 11.7 17.5#



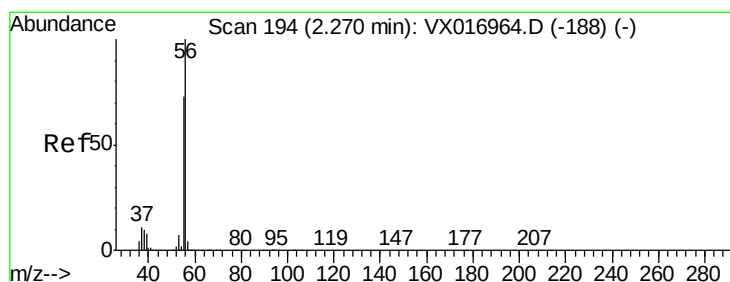
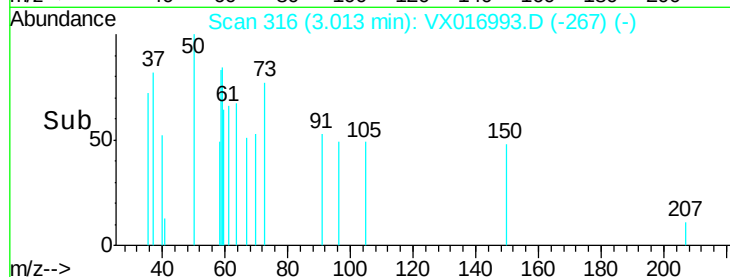
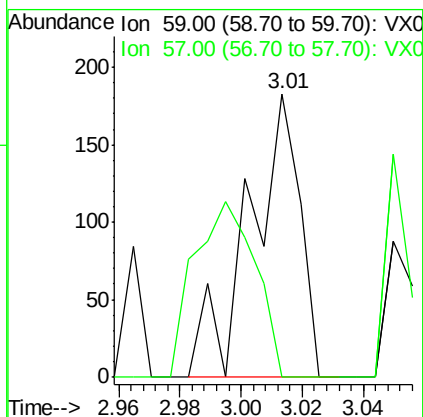
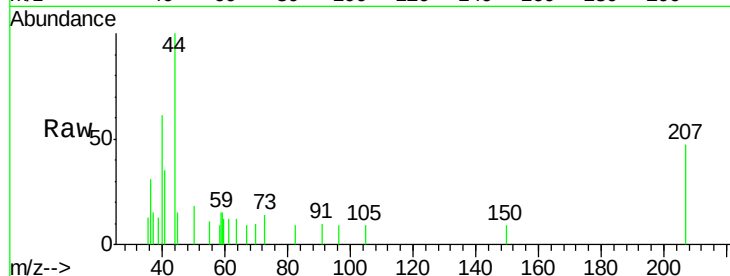


#11

Tert butyl alcohol
Concen: 0.297 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

Instrument :
MSVOA_X
ClientSampled :

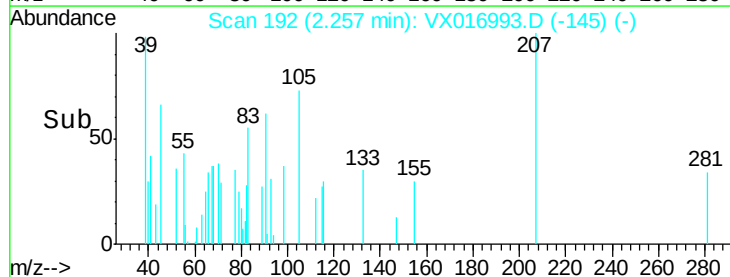
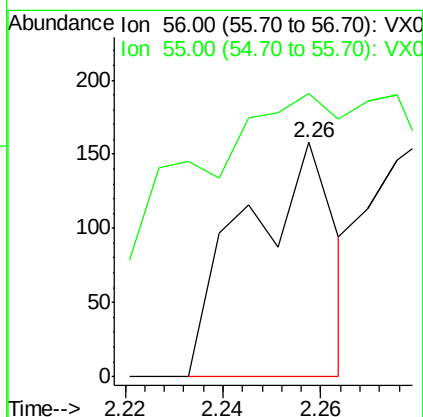
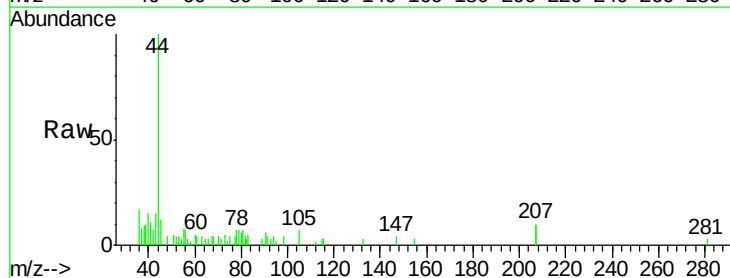
Tot Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 75.4 8.5 12.7#

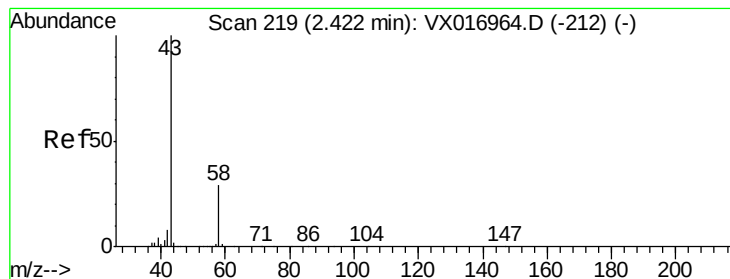


#13

Acrolein
Concen: 0.390 ug/l
RT: 2.26 min Scan# 192
Delta R.T. -0.01 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

Tgt Ion: 56 Resp: 202
Ion Ratio Lower Upper
56 100
55 0.0 57.5 86.3#





#16

Acetone

Concen: 4.237 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

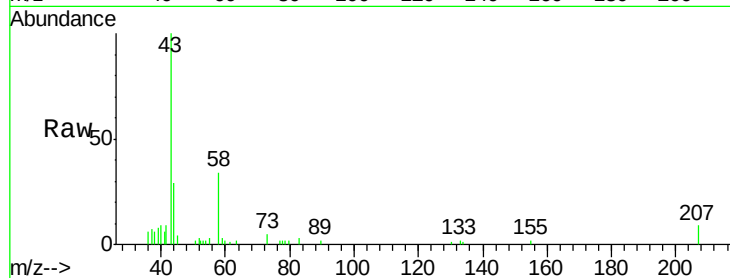
ClientSampleId :

Tot Ion: 43 Resp: 6123

Ion Ratio Lower Upper

43 100

58 35.9 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

4000

3000

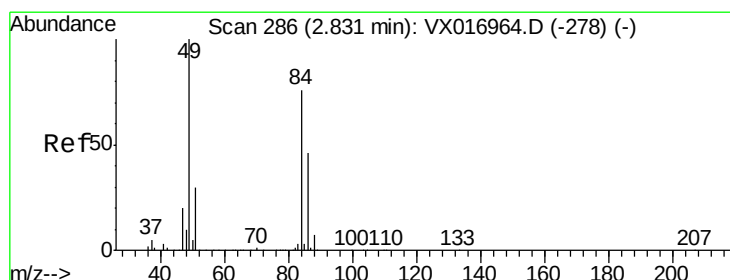
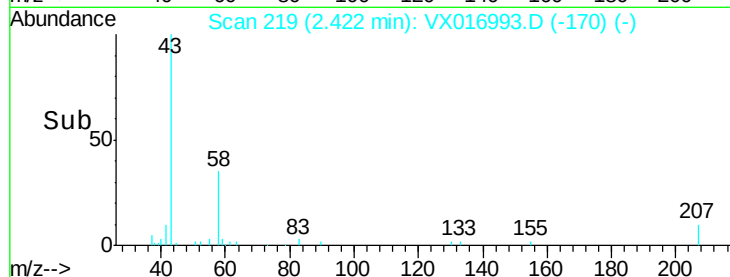
2000

1000

0

2.35 2.40 2.45 2.50

Time-->



#20

Methylene Chloride

Concen: 0.203 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Tgt Ion: 84 Resp: 668

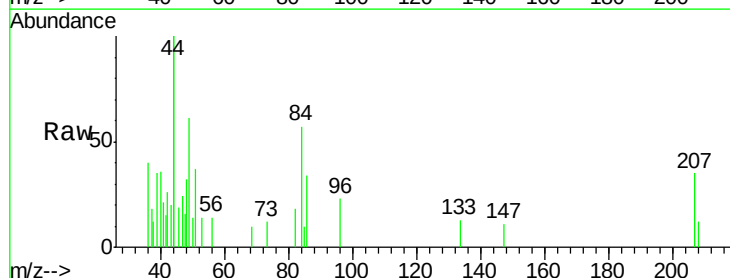
Ion Ratio Lower Upper

84 100

49 106.4 105.6 158.4

51 45.2 31.2 46.8

86 58.7 48.8 73.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

600

500

400

300

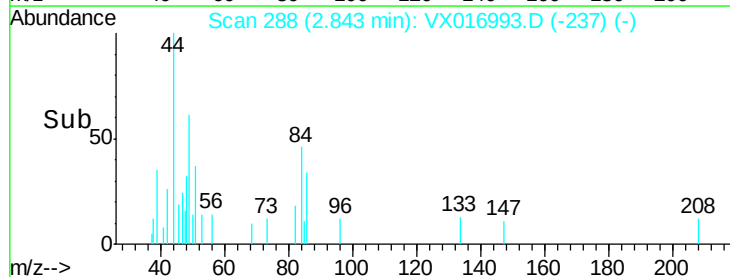
200

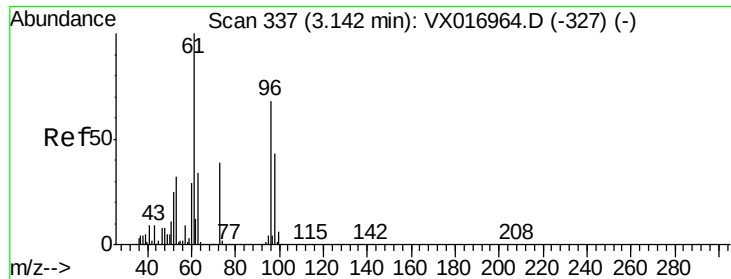
100

0

2.80 2.85 2.90

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.245 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

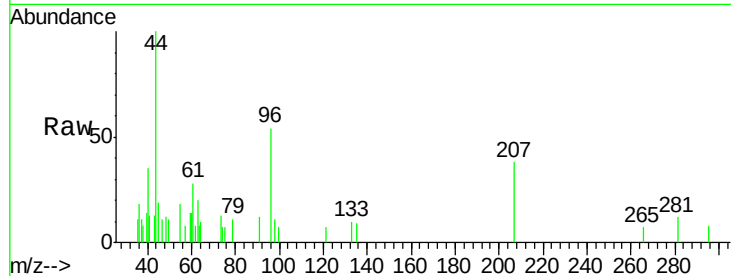
Tot Ion: 96 Resp: 752

Ion Ratio Lower Upper

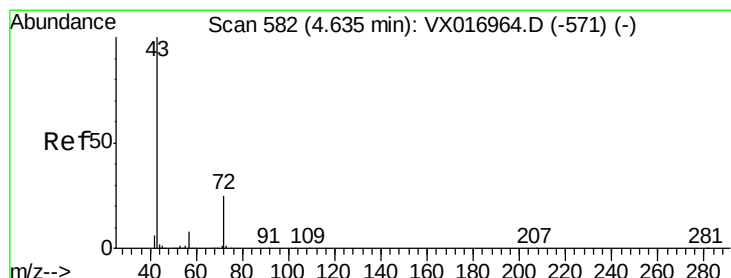
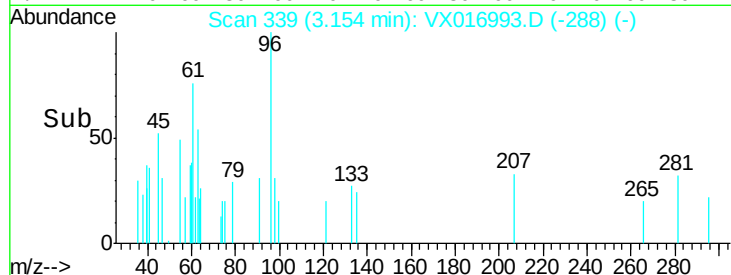
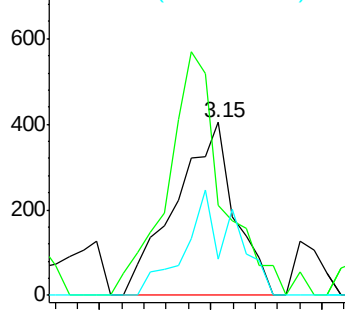
96 100

61 39.4 116.7 175.1#

98 21.3 50.7 76.1#



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



#25

2-Butanone

Concen: 0.345 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016993.D

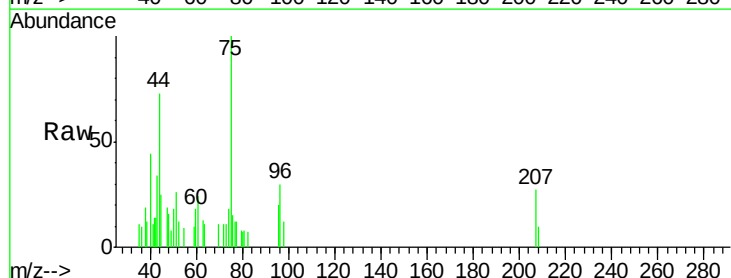
Acq: 26 Jun 2020 18:54

Tgt Ion: 43 Resp: 760

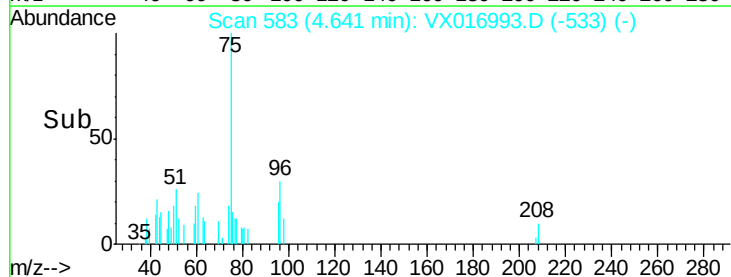
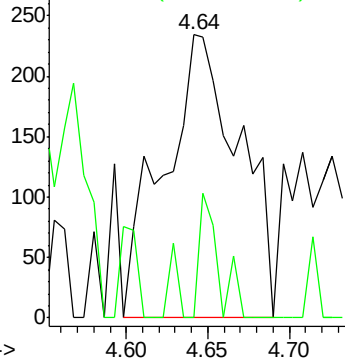
Ion Ratio Lower Upper

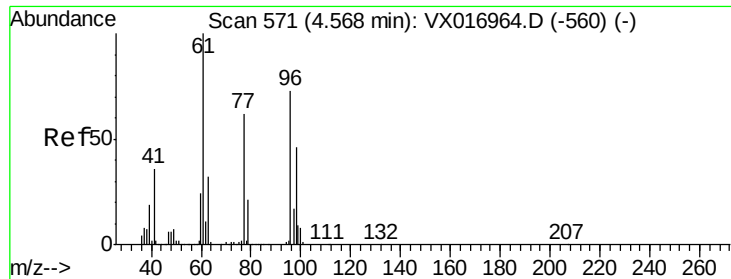
43 100

72 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



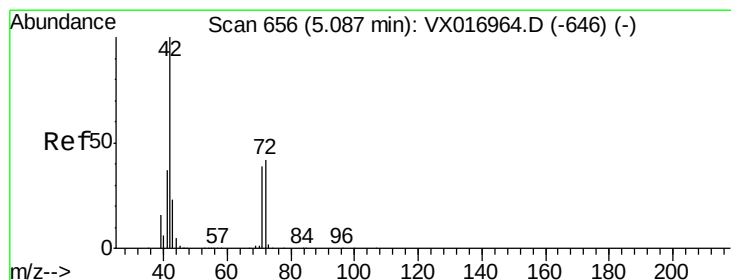
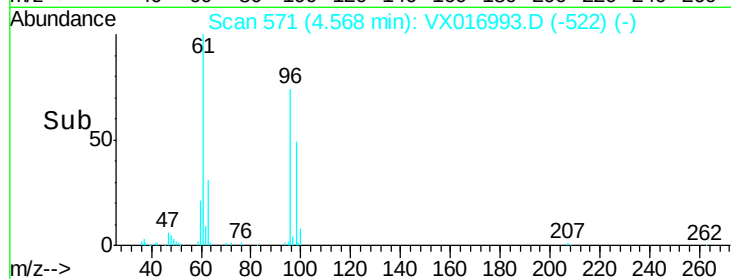
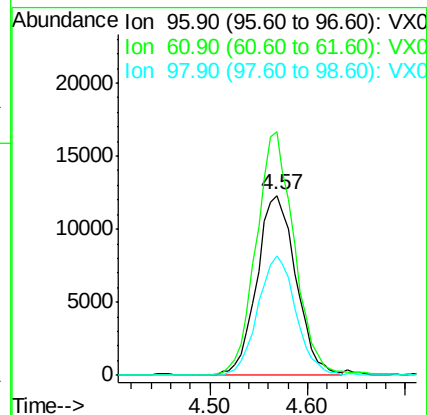
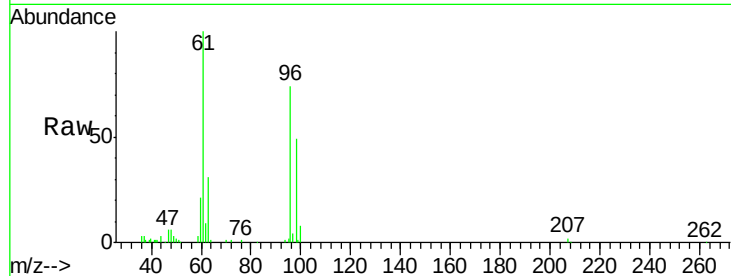


#27

cis-1,2-Dichloroethene
 Concen: 10.119 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016993.D
 Acq: 26 Jun 2020 18:54

Instrument :
 MSVOA_X
 ClientSampled :

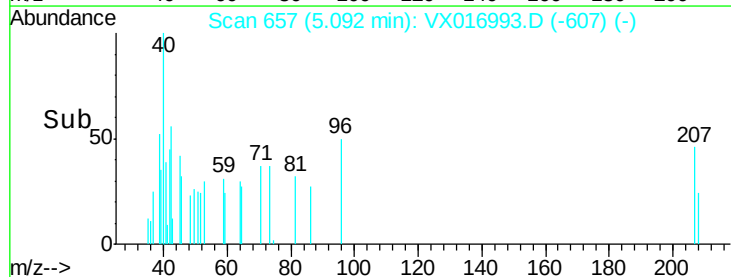
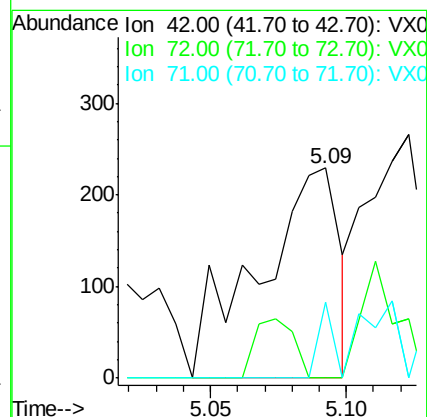
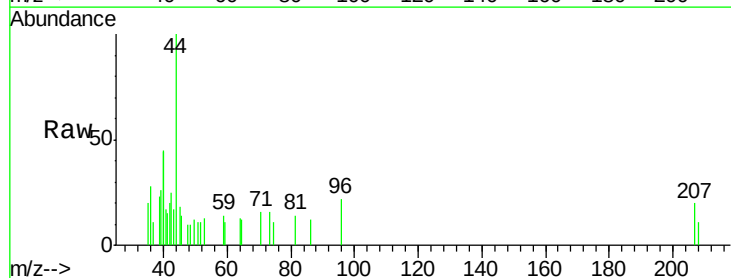
Tot Ion	96	Resp	34283
Ion	Ratio	Lower	Upper
96	100		
61	131.0	0.0	307.2
98	64.5	0.0	128.4

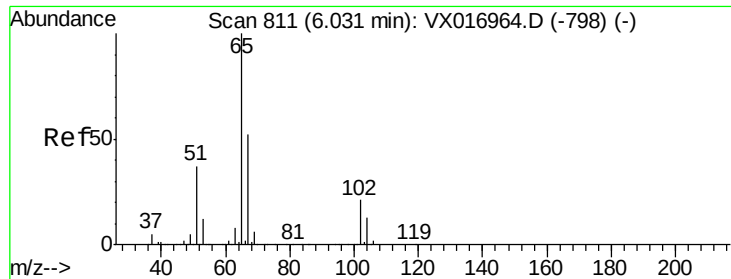


#29

Tetrahydrofuran
 Concen: 0.325 ug/l
 RT: 5.09 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VX016993.D
 Acq: 26 Jun 2020 18:54

Tgt Ion	42	Resp	470
Ion	Ratio	Lower	Upper
42	100		
72	13.6	34.1	51.1#
71	6.4	32.1	48.1#

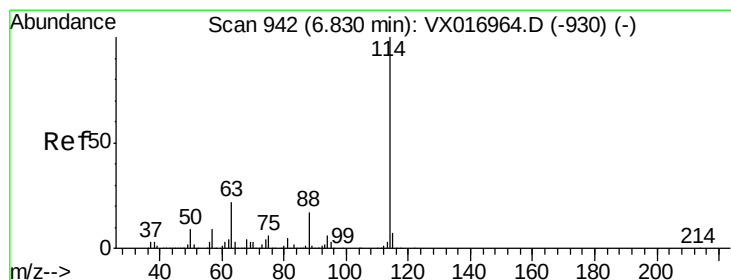
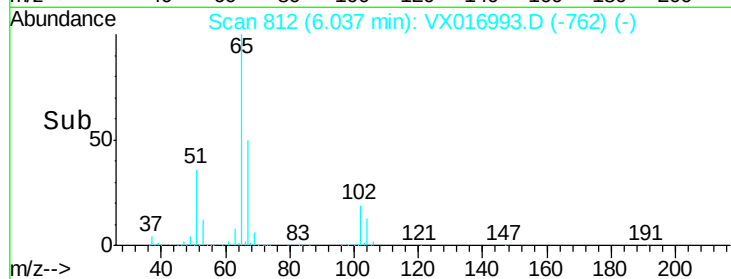
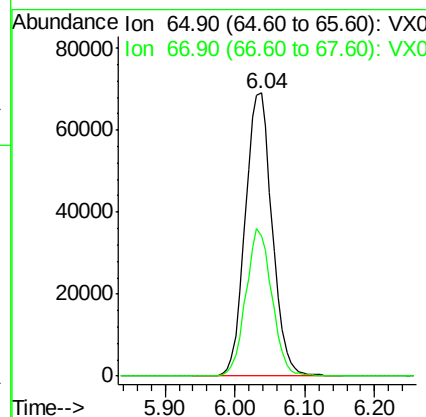
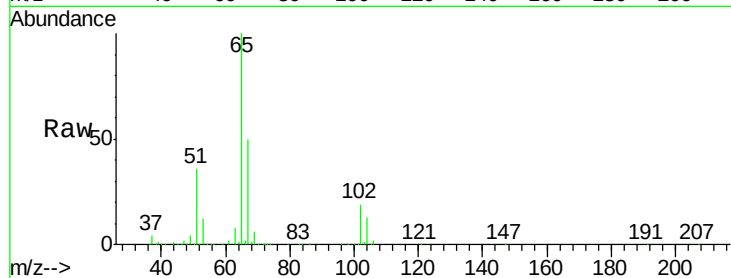




#33
 1,2-Dichloroethane-d4
 Concen: 49.965 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016993.D
 Acq: 26 Jun 2020 18:54

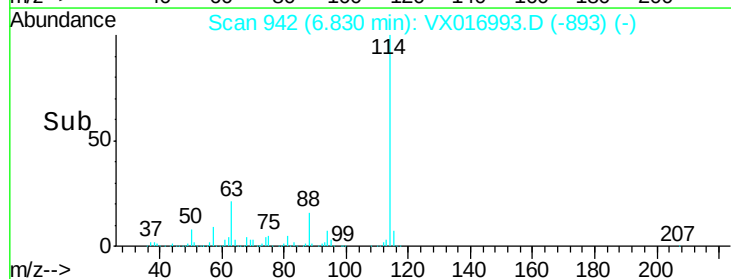
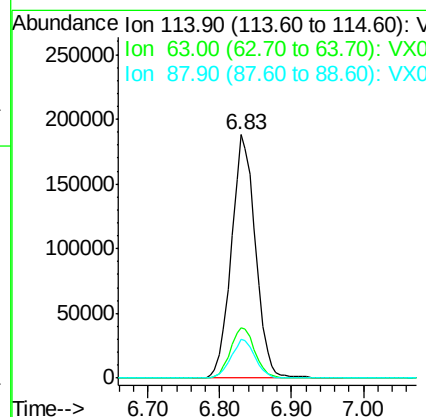
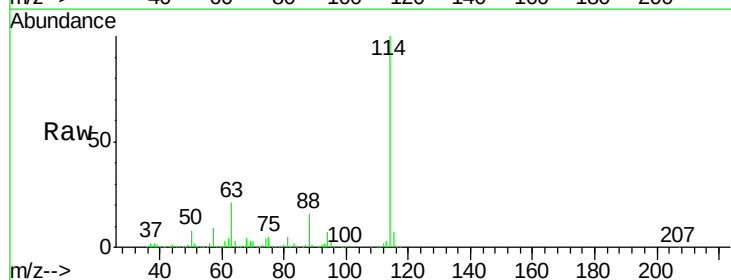
Instrument :
 MSVOA_X
 ClientSampleId :

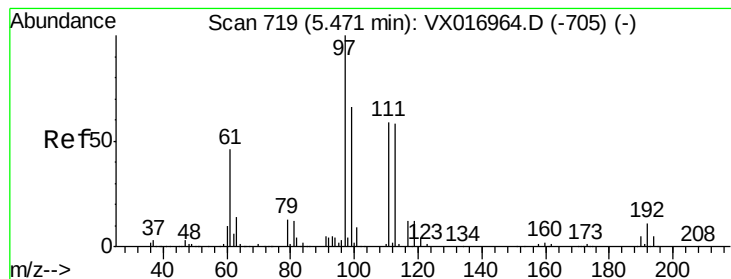
Tot Ion: 65 Resp: 184719
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016993.D
 Acq: 26 Jun 2020 18:54

Tgt Ion: 114 Resp: 437209
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 44.4
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.173 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

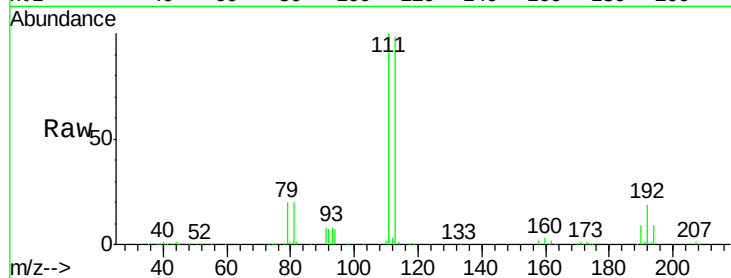
Tot Ion:113 Resp: 144882

Ion Ratio Lower Upper

113 100

111 103.8 84.3 126.5

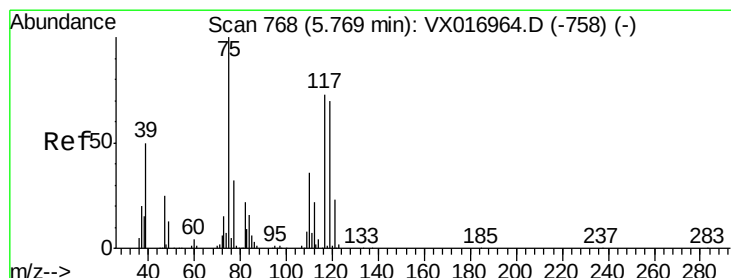
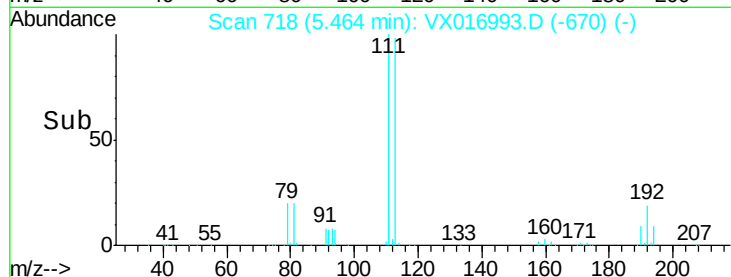
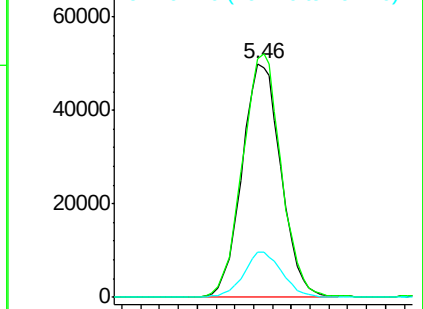
192 19.1 15.2 22.8



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



#36

1,1-Dichloropropene

Concen: 4.770 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

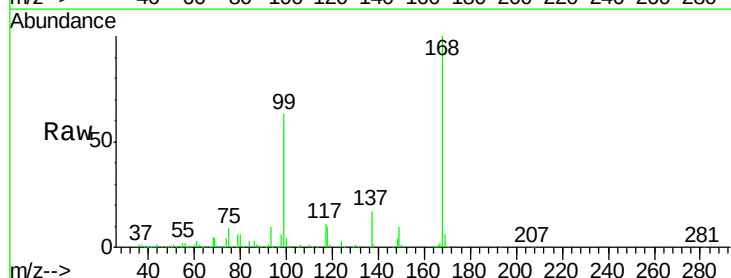
Tgt Ion: 75 Resp: 20649

Ion Ratio Lower Upper

75 100

110 10.0 17.2 51.6#

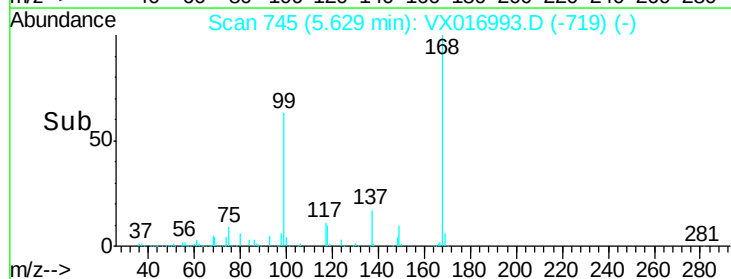
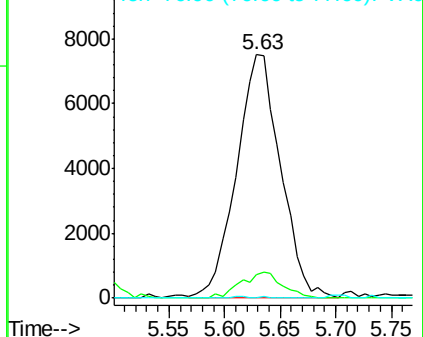
77 0.1 24.7 37.1#

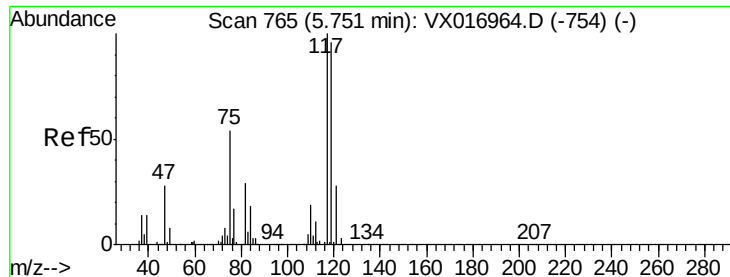


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

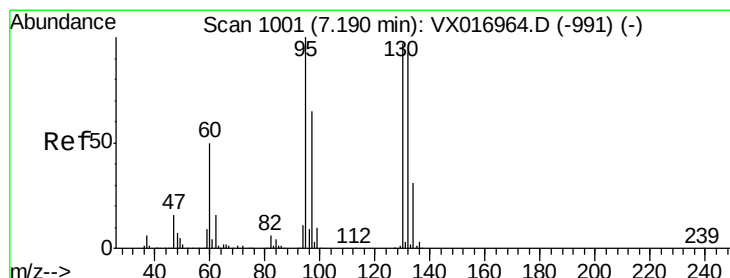
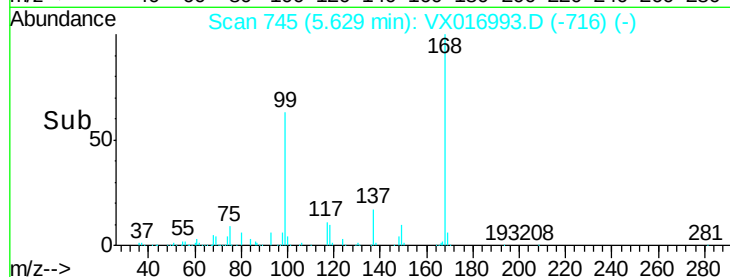
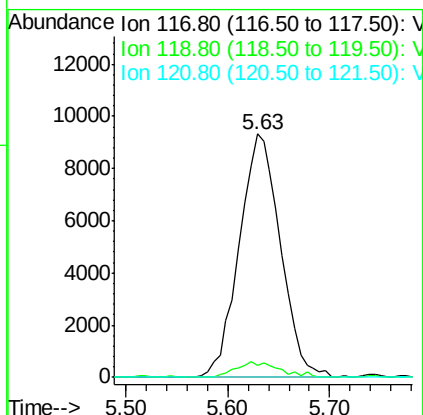
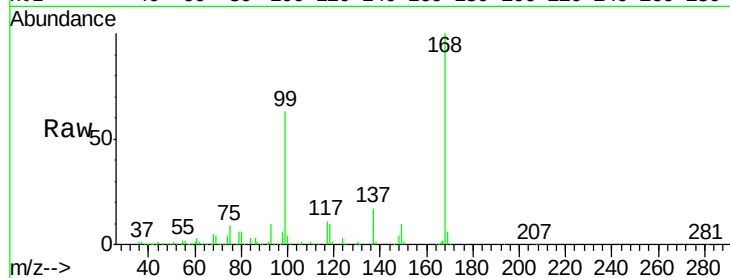




#38
Carbon Tetrachloride
Concen: 5.690 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

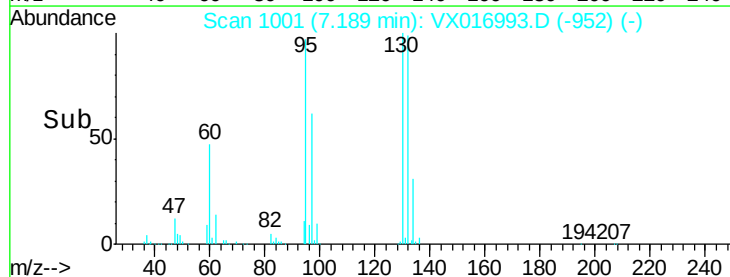
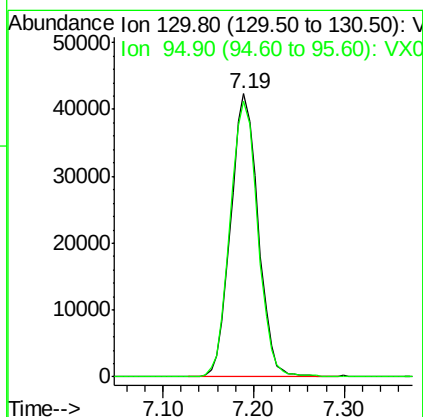
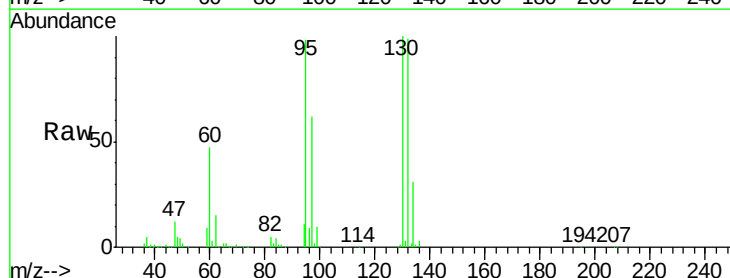
Instrument :
MSVOA_X
ClientSampleId :

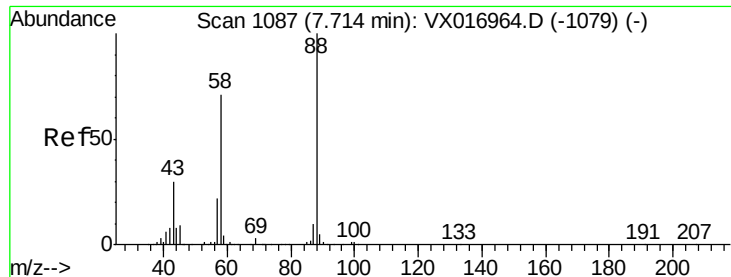
Tot Ion:117 Resp: 26069
Ion Ratio Lower Upper
117 100
119 5.1 76.6 114.8#
121 0.0 22.5 33.7#



#44
Trichloroethene
Concen: 26.870 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

Tgt Ion:130 Resp: 89173
Ion Ratio Lower Upper
130 100
95 97.5 0.0 206.6

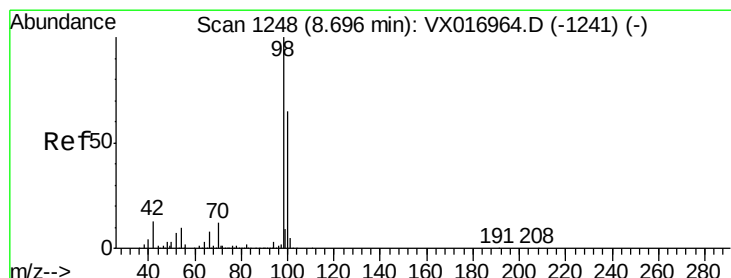
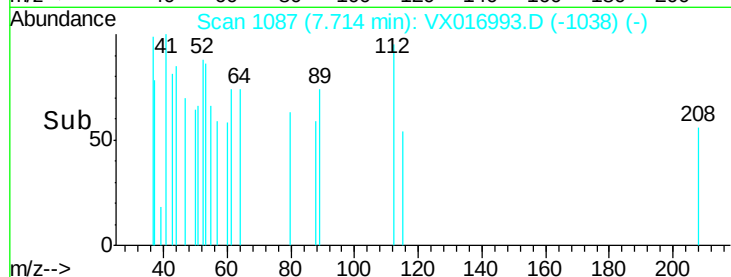
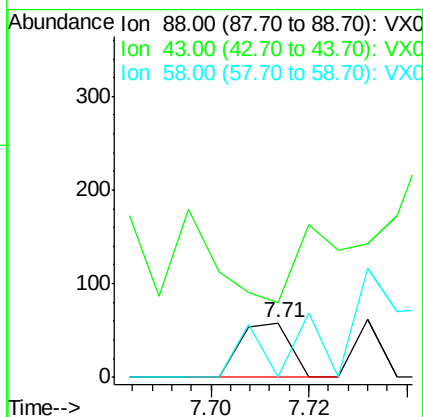
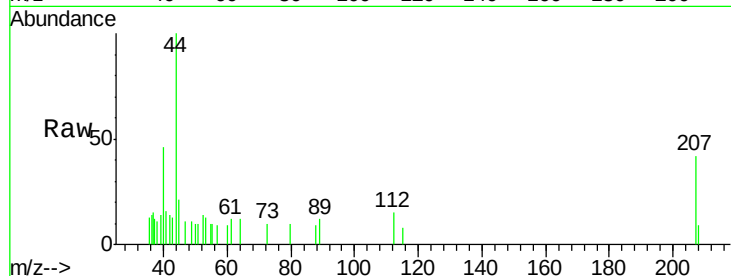




#49
1,4-Dioxane
Concen: 0.539 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

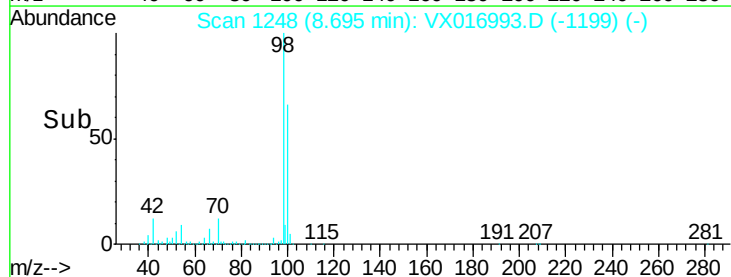
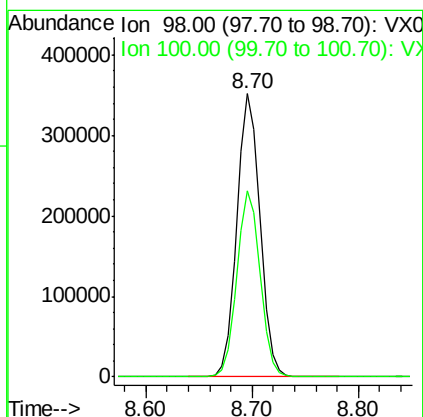
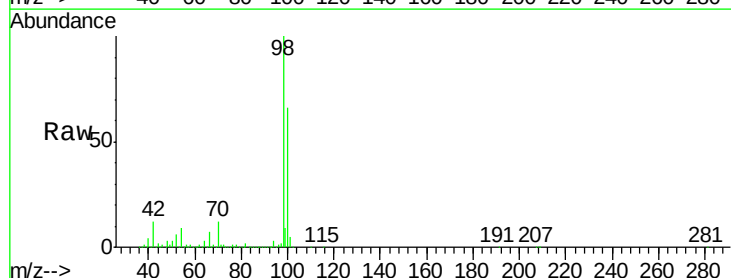
Instrument :
MSVOA_X
ClientSampled :

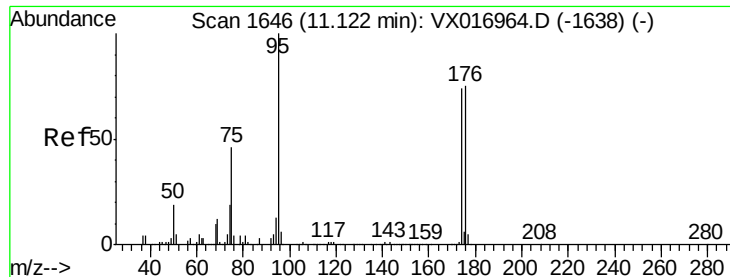
Tot Ion	88	Resp	41
Ion Ratio	Lower	Upper	
88	100		
43	0.0	28.1	42.1#
58	48.8	56.1	84.1#



#50
Toluene-d8
Concen: 51.067 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016993.D
Acq: 26 Jun 2020 18:54

Tgt Ion	98	Resp	540538
Ion Ratio	Lower	Upper	
98	100		
100	65.6	52.2	78.2





#62

4-Bromofluorobenzene

Concen: 55.265 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

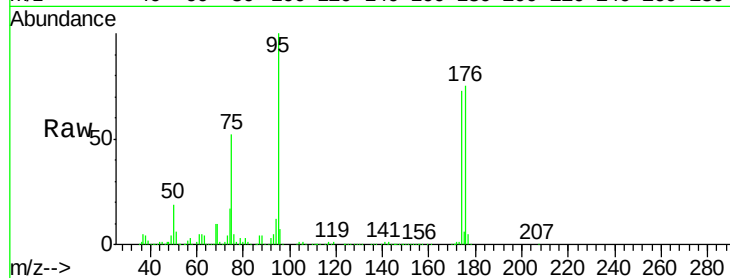
Tot Ion: 95 Resp: 226205

Ion Ratio Lower Upper

95 100

174 75.2 0.0 149.6

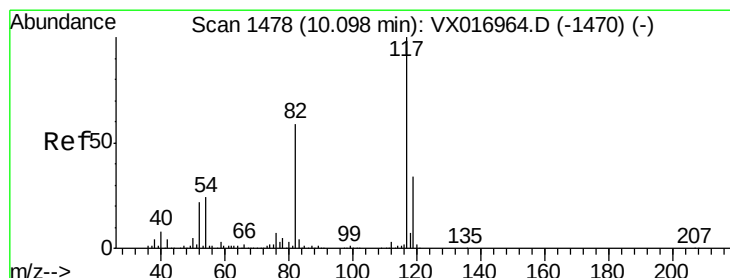
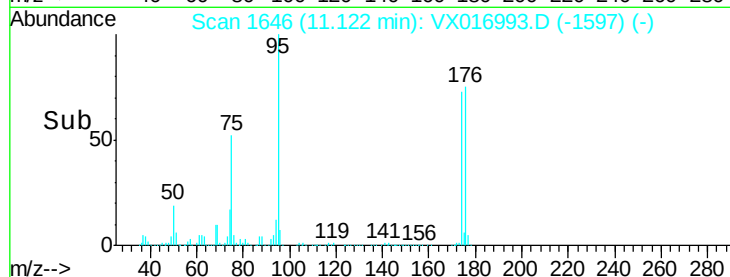
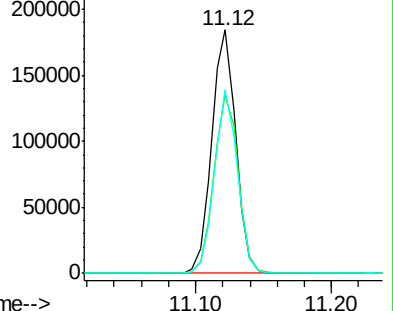
176 73.0 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VX016993.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016993.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016993.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

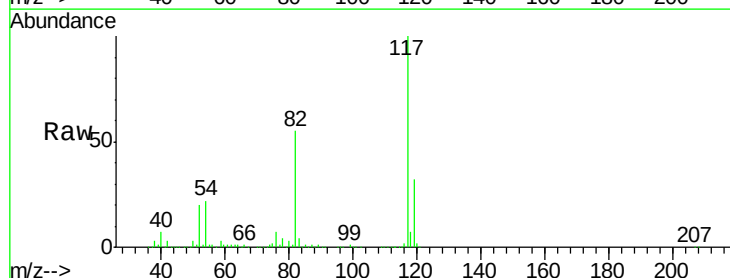
Tgt Ion: 117 Resp: 442803

Ion Ratio Lower Upper

117 100

82 55.4 46.8 70.2

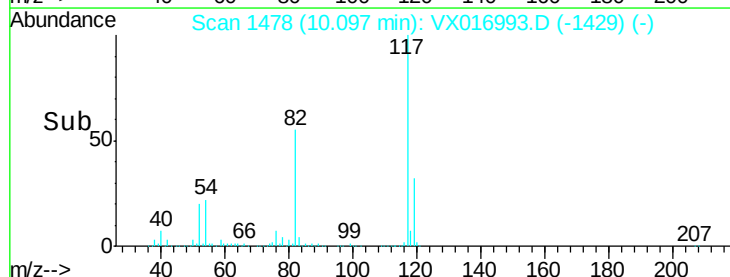
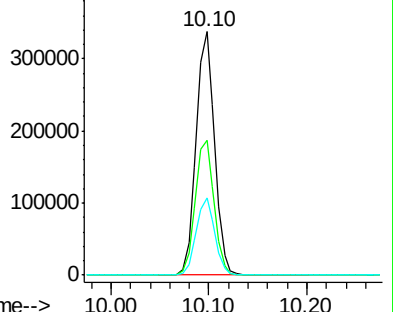
119 32.0 27.3 40.9

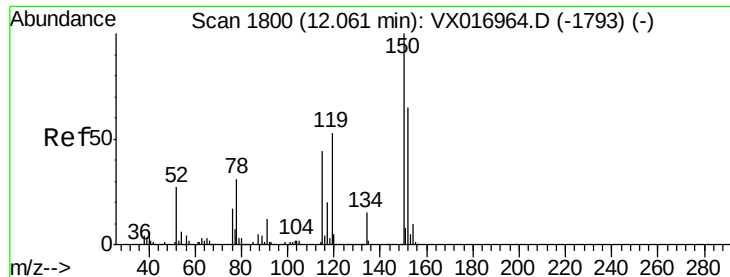


Abundance Ion 116.90 (116.60 to 117.60): VX016993.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016993.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016993.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

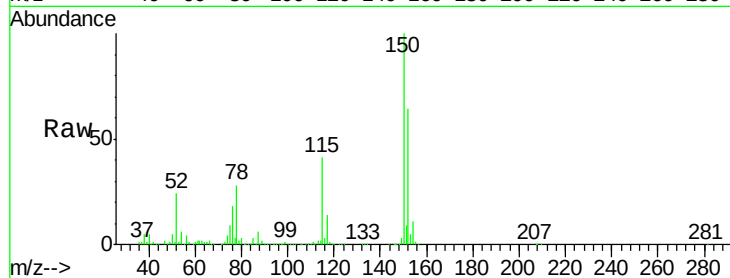
Tot Ion:152 Resp: 220612

Ion Ratio Lower Upper

152 100

115 60.4 42.8 128.4

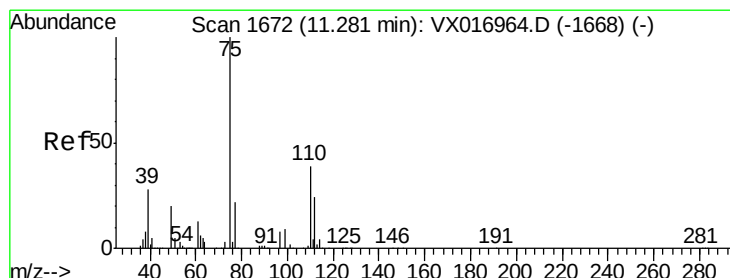
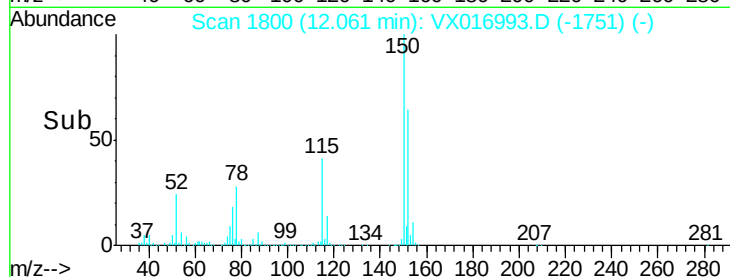
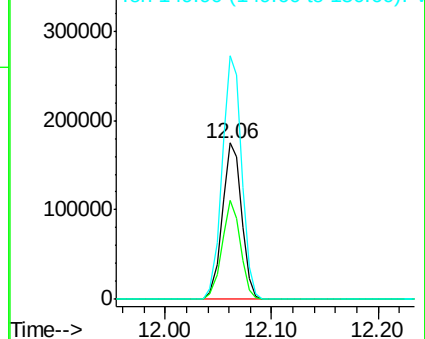
150 157.7 0.0 347.8



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: 25.379 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016993.D

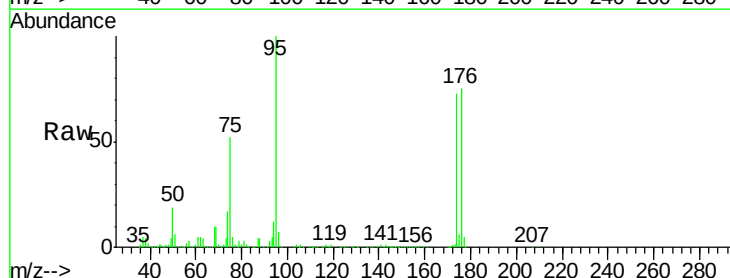
Acq: 26 Jun 2020 18:54

Tgt Ion: 75 Resp: 117501

Ion Ratio Lower Upper

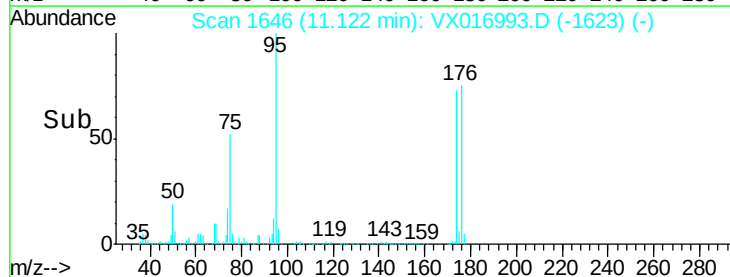
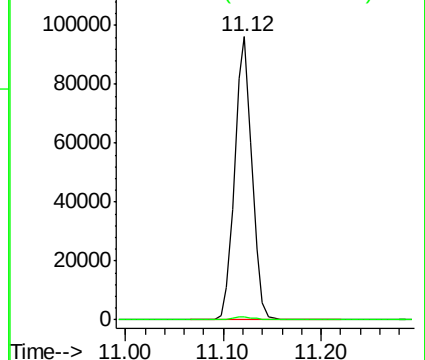
75 100

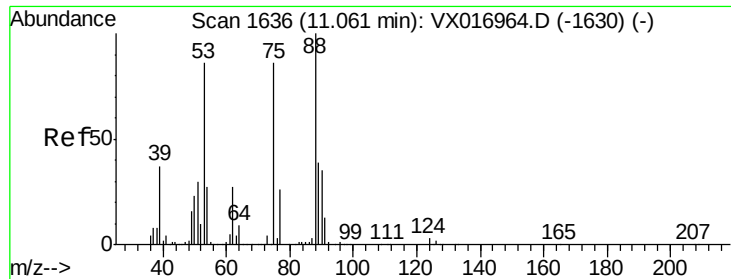
77 1.2 20.3 61.0#



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: 64.435 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016993.D

Acq: 26 Jun 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 117501

Ion Ratio Lower Upper

75 100

53 0.1 81.9 122.9#

89 0.1 35.5 53.3#

