

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016305.D
 Acq On : 18 May 2020 17:41
 Operator : JC/SP
 Sample : L2649-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:48:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	284969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	462556	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	449892	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	229431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	164941	43.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.98%	
35) Dibromofluoromethane	5.47	113	134195	45.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.58%	
50) Toluene-d8	8.70	98	567795	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	11.12	95	226797	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	

Target Compounds

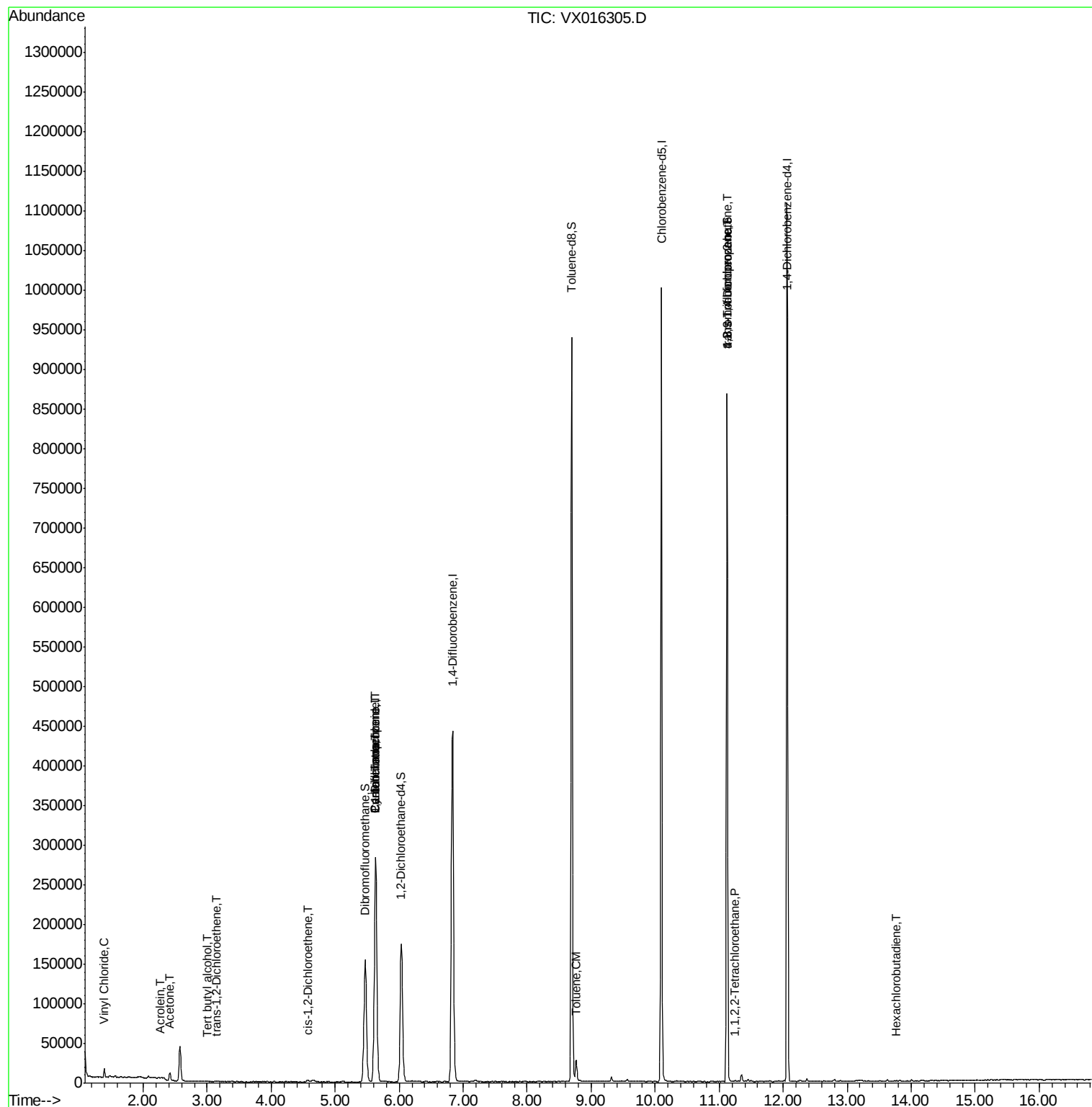
						Qvalue
4) Vinyl Chloride	1.39	62	5643	1.510	ug/l	96
11) Tert butyl alcohol	3.00	59	258	0.272	ug/l #	72
13) Acrolein	2.27	56	625	1.053	ug/l #	67
16) Acetone	2.42	43	10352	6.187	ug/l	97
17) Carbon Disulfide	2.55	76	1587	Below Cal	#	94
21) trans-1,2-Dichloroethene	3.15	96	718	0.218	ug/l #	73
27) cis-1,2-Dichloroethene	4.57	96	1784	0.494	ug/l	69
31) Cyclohexane	5.63	56	5164	0.991	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20079	4.410	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26964	5.826	ug/l #	14
52) Toluene	8.77	92	9607	1.157	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.25	83	21	2.056	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	110276	21.181	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	110276	50.476	ug/l #	13
94) Hexachlorobutadiene	13.77	225	170	0.594	ug/l	84

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

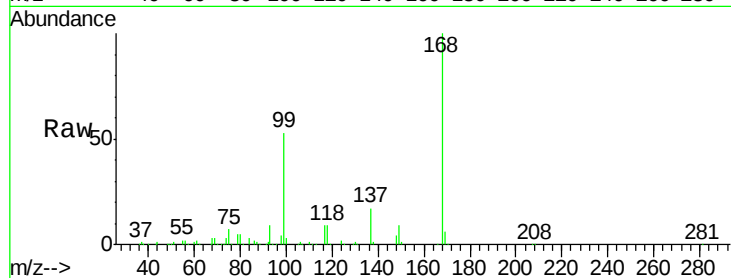
ClientSampleId :

Tot Ion:168 Resp: 284969

Ion Ratio Lower Upper

168 100

99 53.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

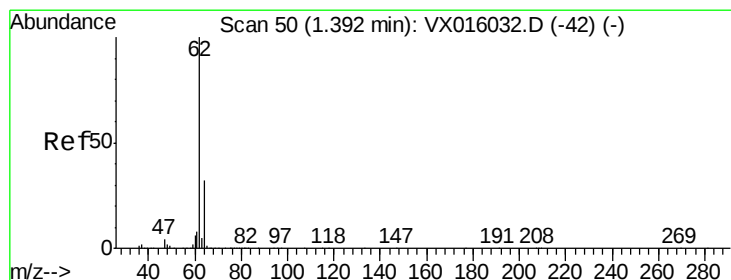
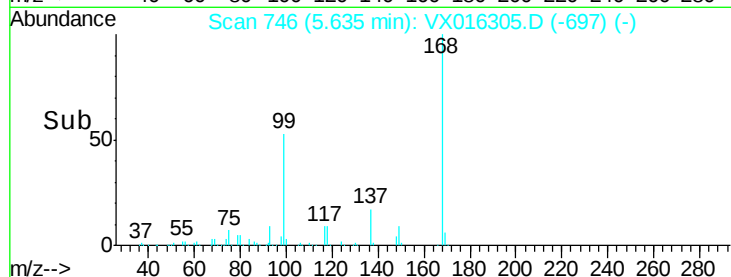
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 1.510 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016305.D

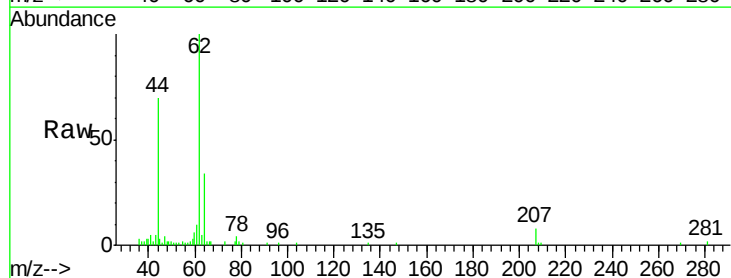
Acq: 18 May 2020 17:41

Tgt Ion: 62 Resp: 5643

Ion Ratio Lower Upper

62 100

64 34.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

6000

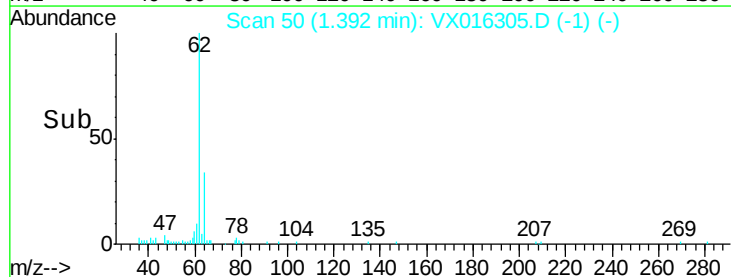
4000

2000

0

1.35 1.40 1.45

Time-->



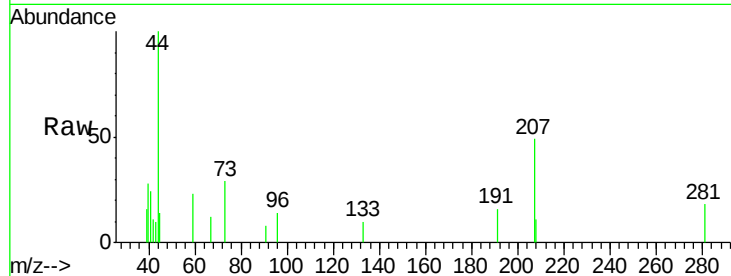


#11

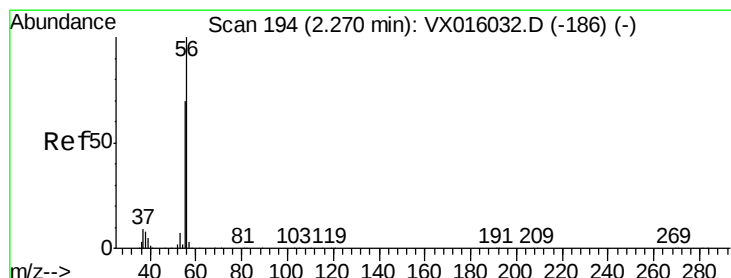
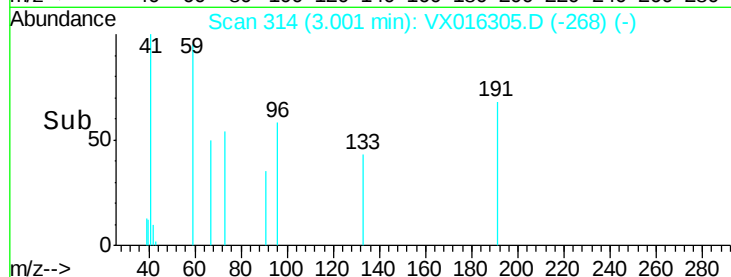
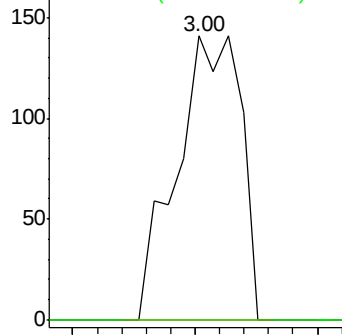
Tert butvl alcohol
 Concen: 0.272 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.02 min
 Lab File: VX016305.D
 Acq: 18 May 2020 17:41

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 59 Resp: 258
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#



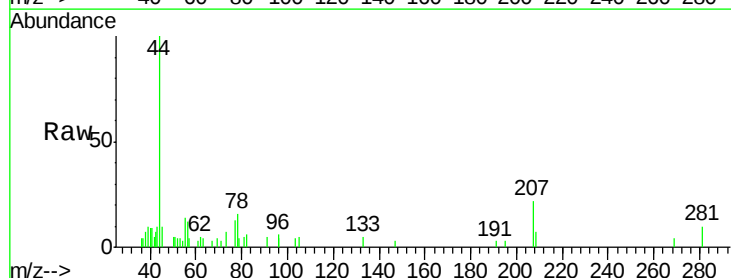
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



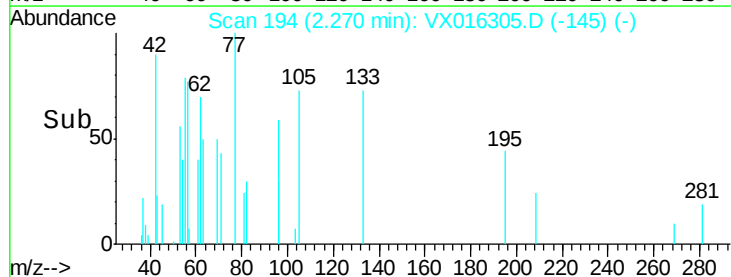
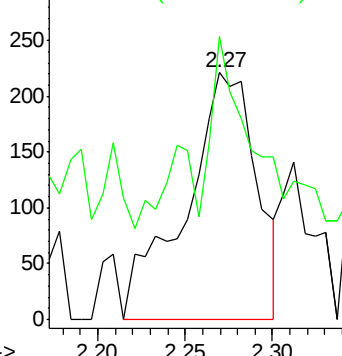
#13

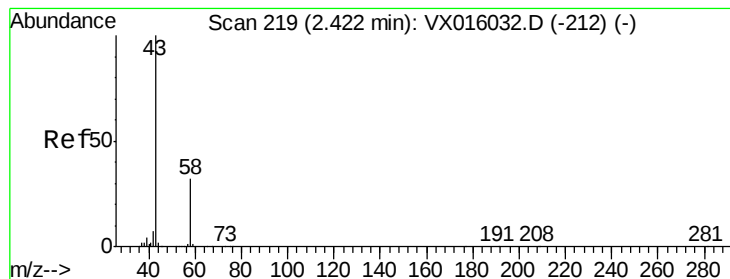
Acrolein
 Concen: 1.053 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.00 min
 Lab File: VX016305.D
 Acq: 18 May 2020 17:41

Tgt Ion: 56 Resp: 625
 Ion Ratio Lower Upper
 56 100
 55 43.4 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 6.187 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

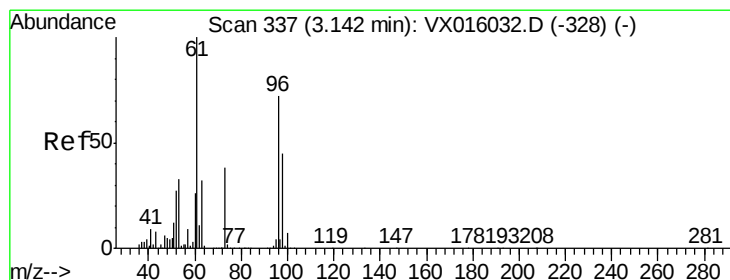
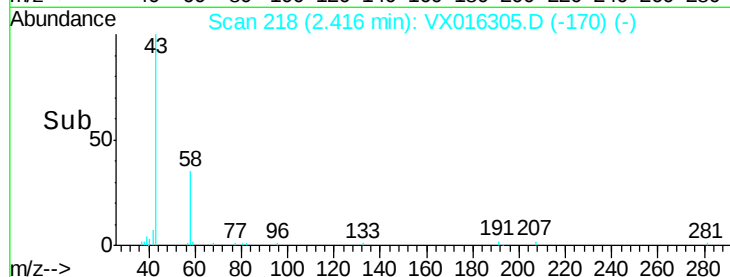
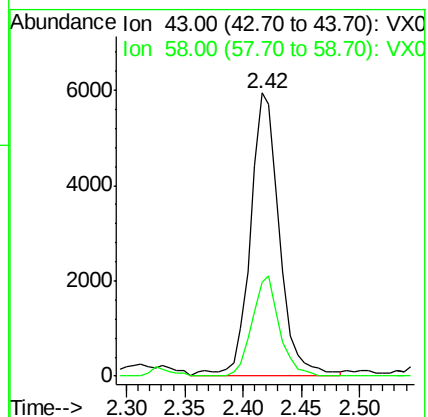
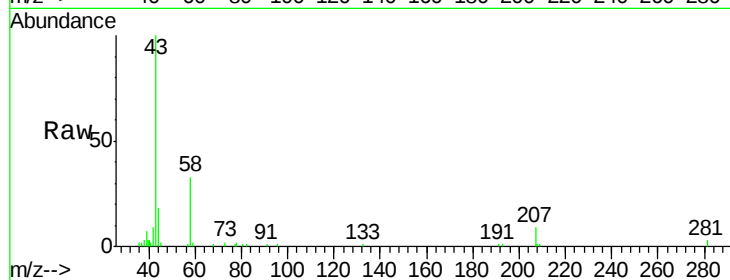
ClientSampleId :

Tot Ion: 43 Resp: 10352

Ion Ratio Lower Upper

43 100

58 33.2 25.4 38.0



#21

trans-1,2-Dichloroethene

Concen: 0.218 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

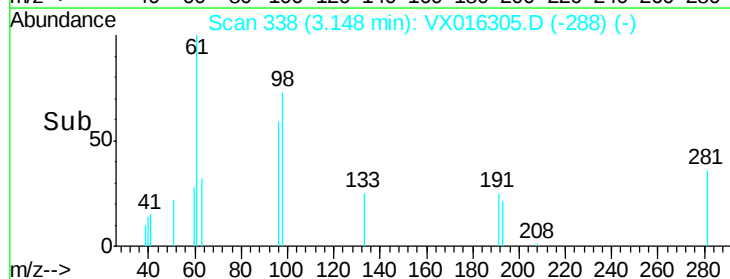
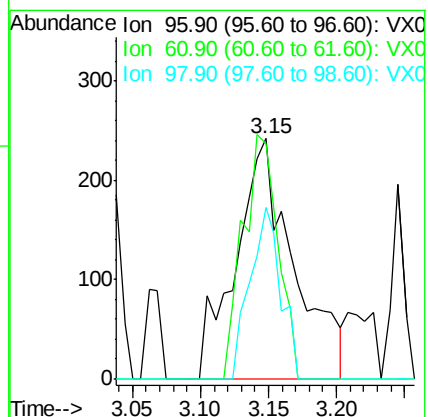
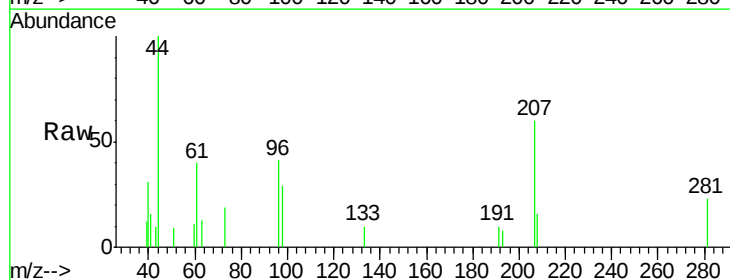
Tgt Ion: 96 Resp: 718

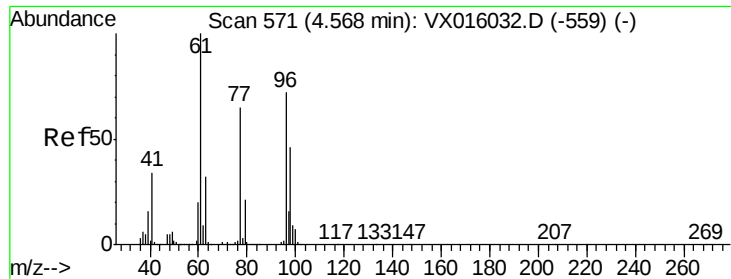
Ion Ratio Lower Upper

96 100

61 97.9 111.2 166.8#

98 71.5 50.2 75.4



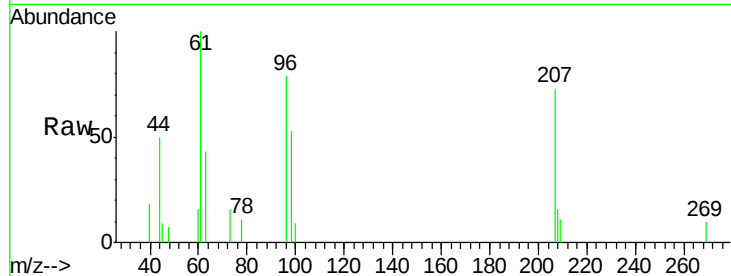


#27

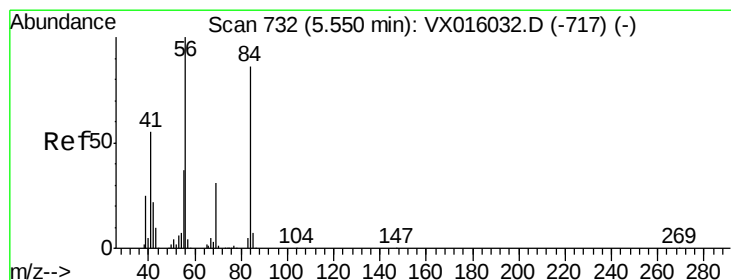
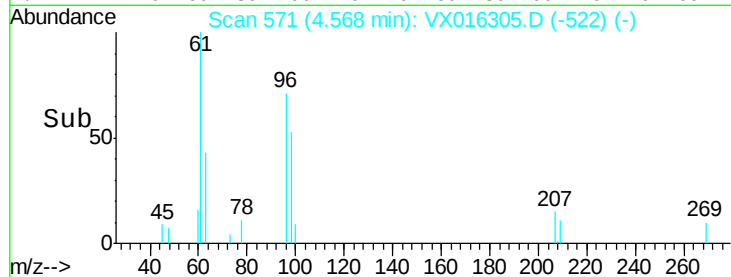
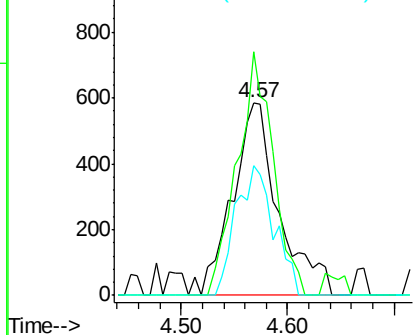
cis-1,2-Dichloroethene
Concen: 0.494 ug/l
RT: 4.57 min Scan# 571
Delta R.T. -0.00 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	96	Resp:	1784
Ion	Ratio	Lower	Upper
96	100		
61	98.5	0.0	296.2
98	55.7	0.0	129.4



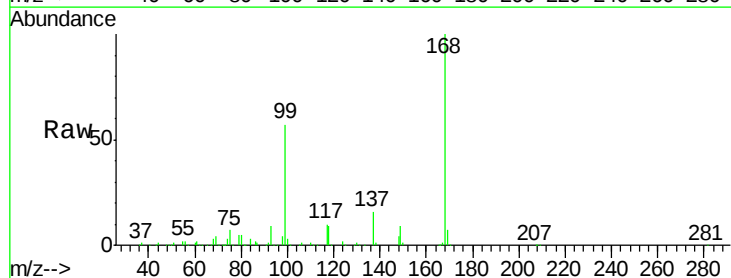
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



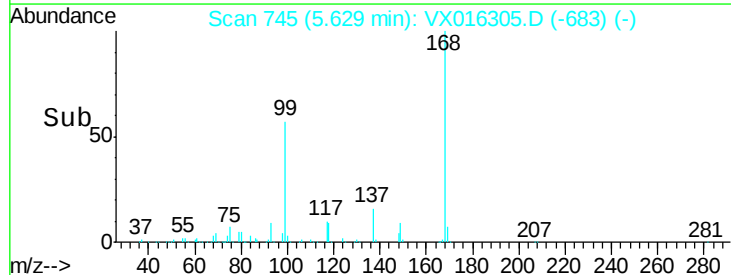
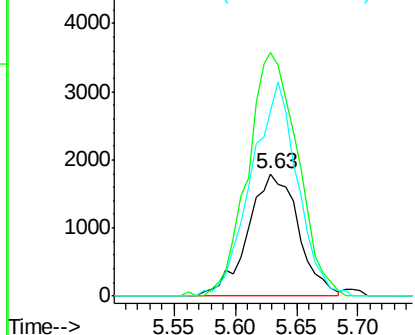
#31

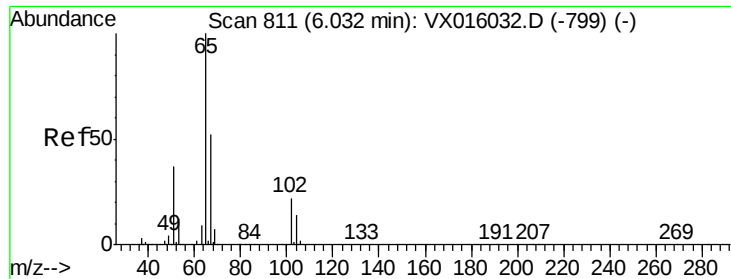
Cyclohexane
Concen: 0.991 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

Tgt Ion	56	Resp:	5164
Ion	Ratio	Lower	Upper
56	100		
69	196.0	25.0	37.6#
84	151.5	69.0	103.6#



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: 43.985 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

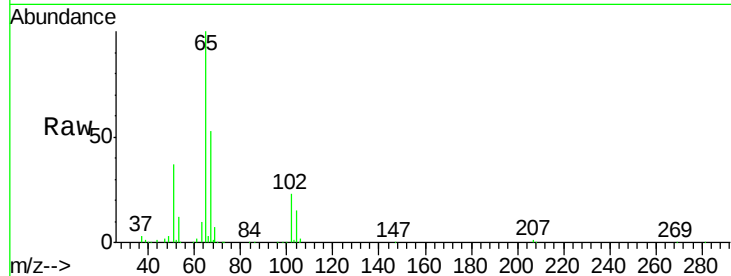
ClientSampleId :

Tot Ion: 65 Resp: 164941

Ion Ratio Lower Upper

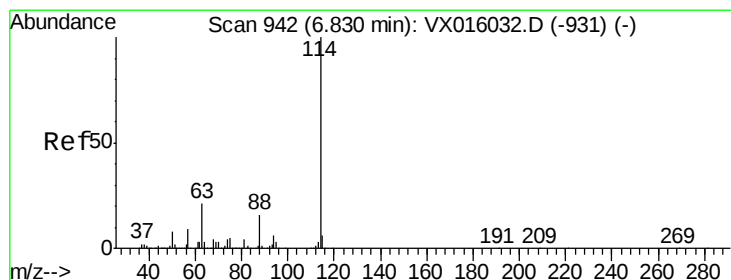
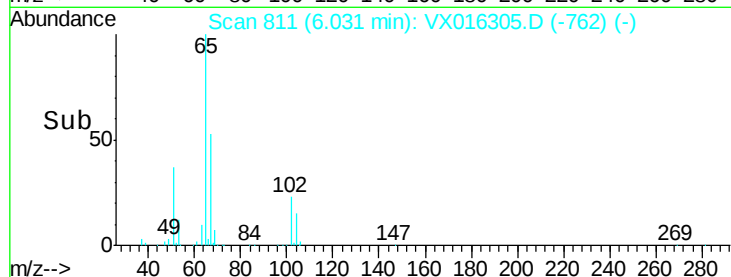
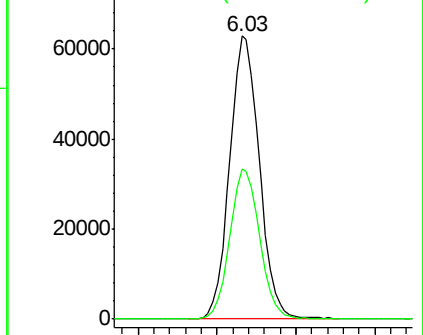
65 100

67 53.3 0.0 104.8



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: VX016305.D

Acq: 18 May 2020 17:41

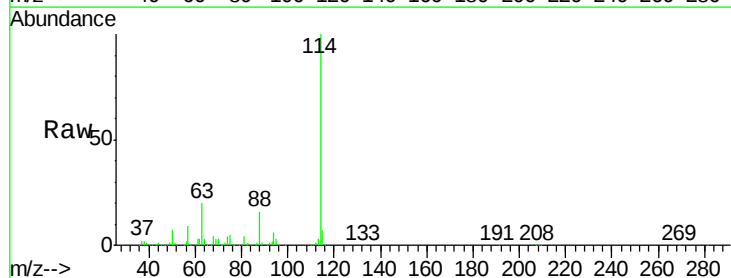
Tgt Ion: 114 Resp: 462556

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

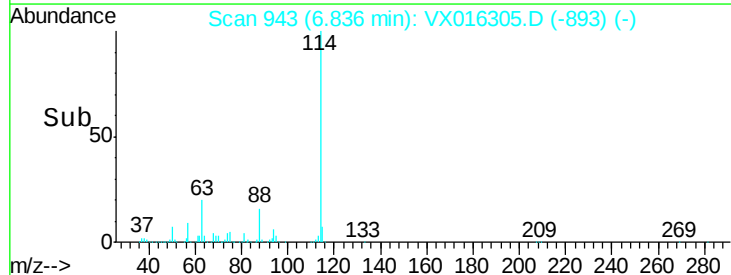
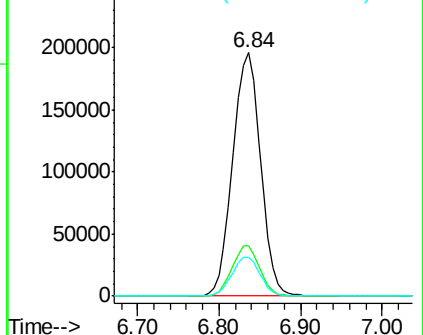
88 16.2 0.0 31.4



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

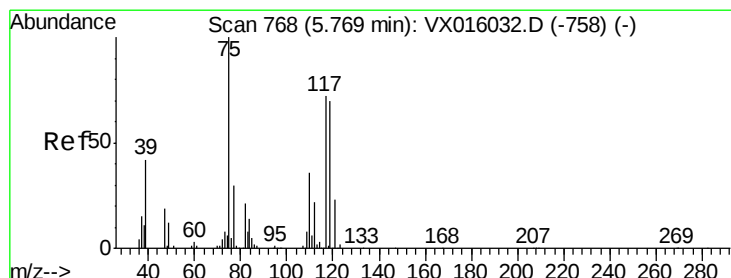
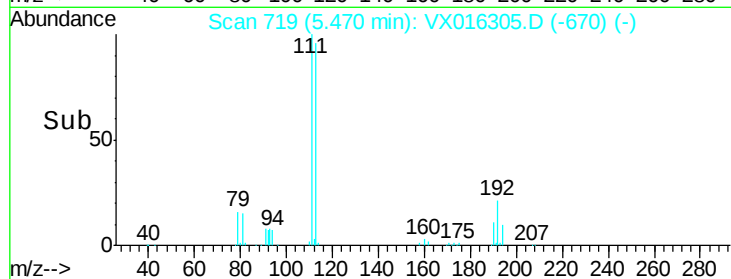
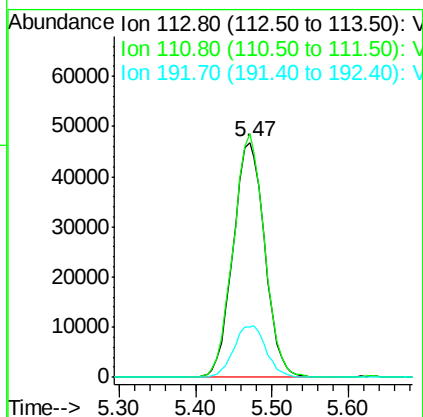
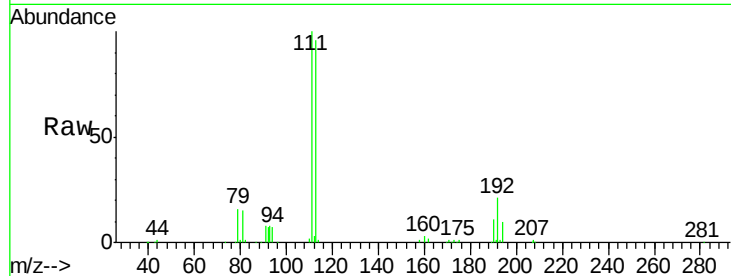




#35
Dibromofluoromethane
Concen: 45.793 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

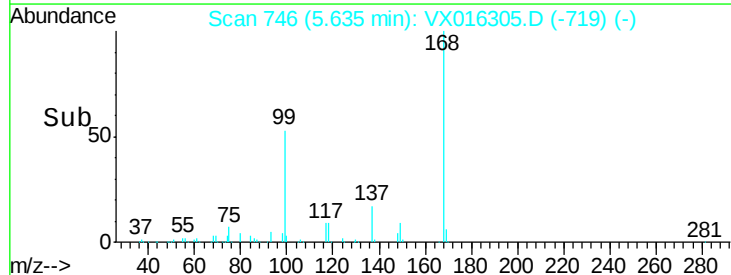
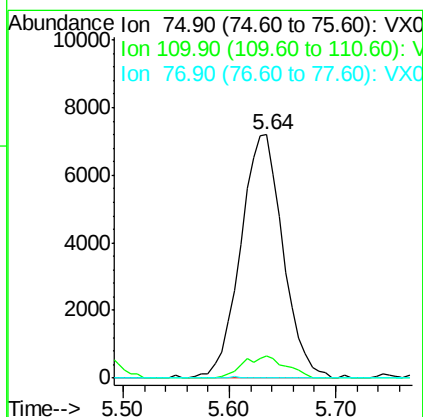
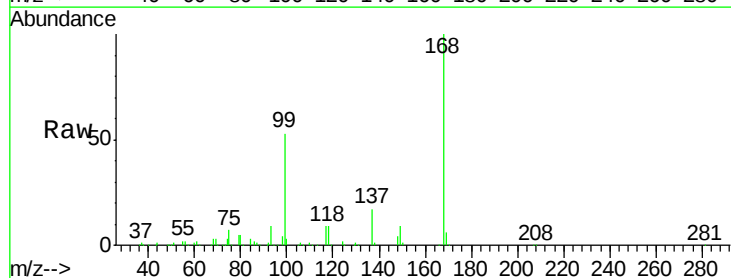
Instrument :
MSVOA_X
ClientSampleId :

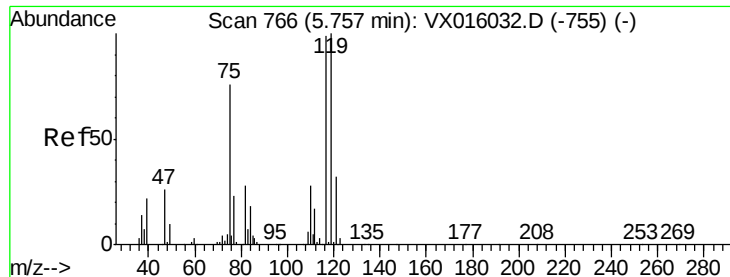
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.6	122.4
192	22.3	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.410 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.13 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.826 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

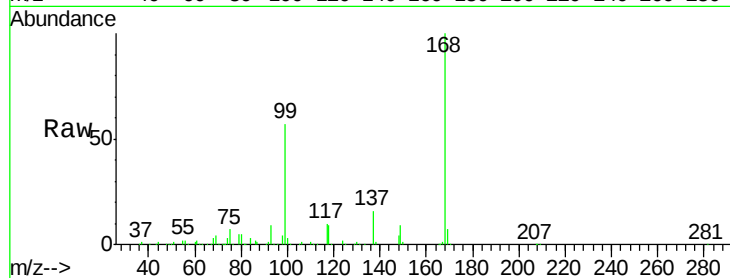
Tot Ion:117 Resp: 26964

Ion Ratio Lower Upper

117 100

119 4.6 80.3 120.5#

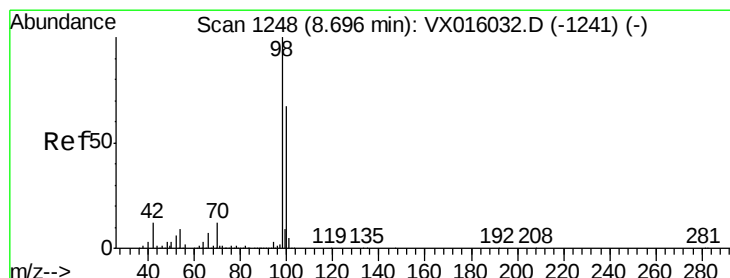
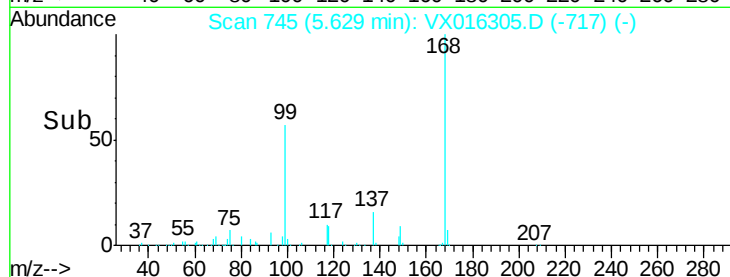
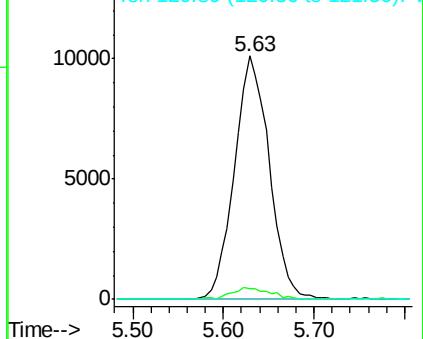
121 0.0 25.7 38.5#



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



#50

Toluene-d8

Concen: 50.286 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016305.D

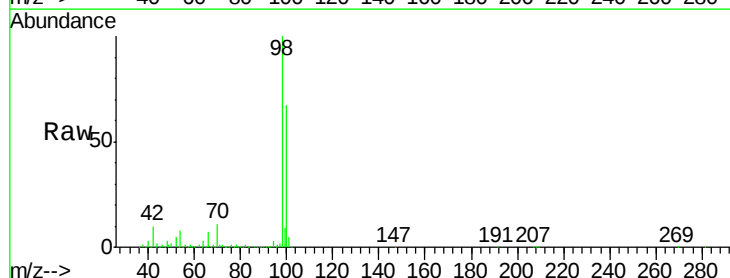
Acq: 18 May 2020 17:41

Tgt Ion: 98 Resp: 567795

Ion Ratio Lower Upper

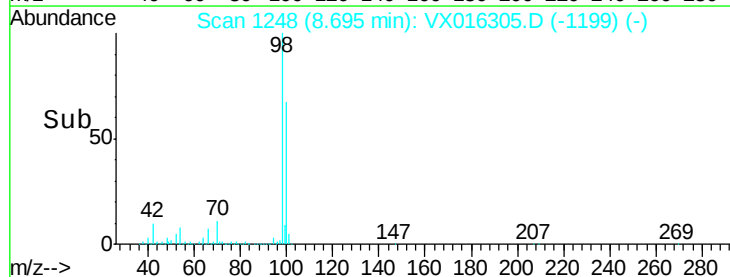
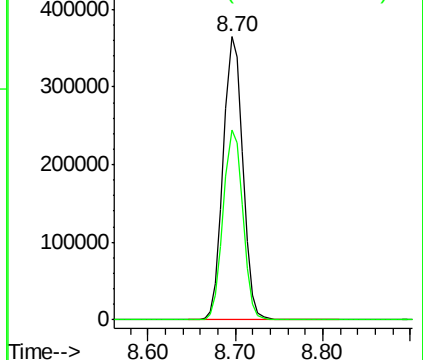
98 100

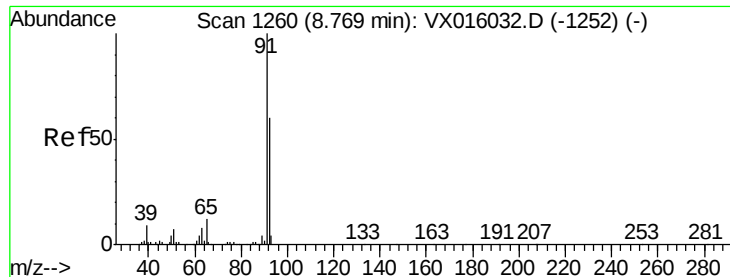
100 67.5 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.157 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

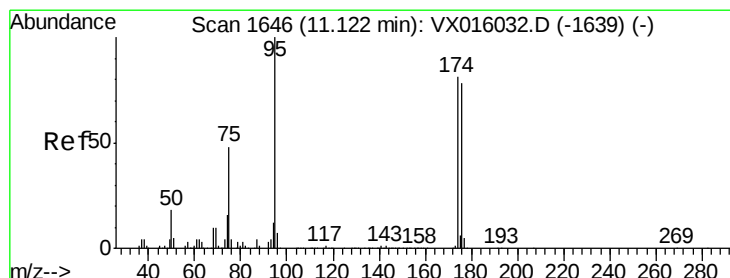
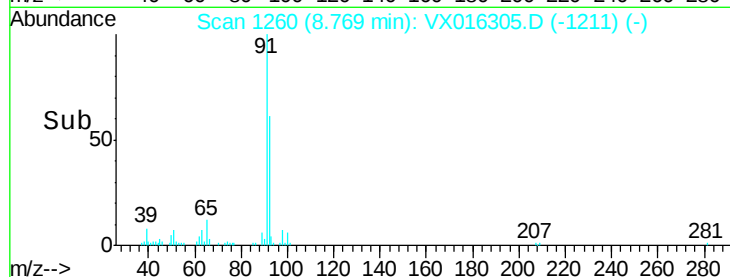
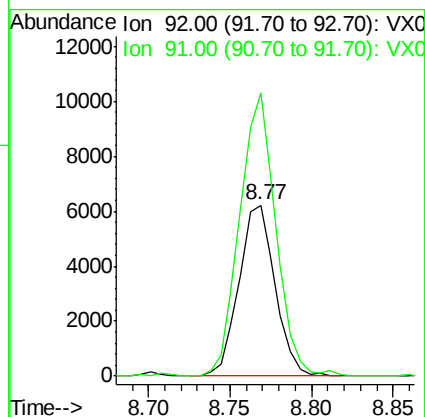
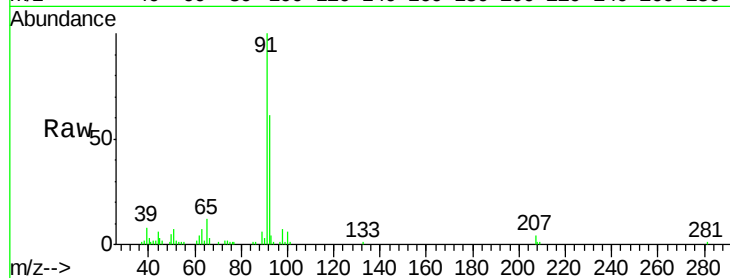
ClientSampleId :

Tot Ion: 92 Resp: 9607

Ion Ratio Lower Upper

92 100

91 165.6 134.5 201.7



#62

4-Bromofluorobenzene

Concen: 52.809 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

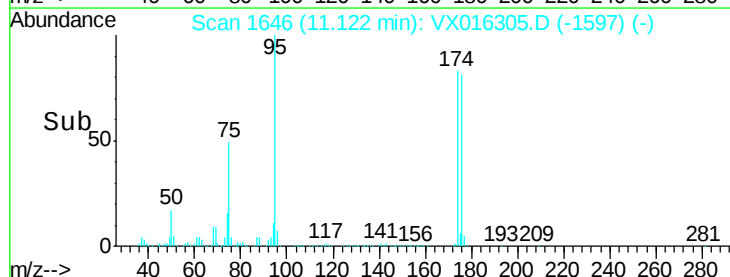
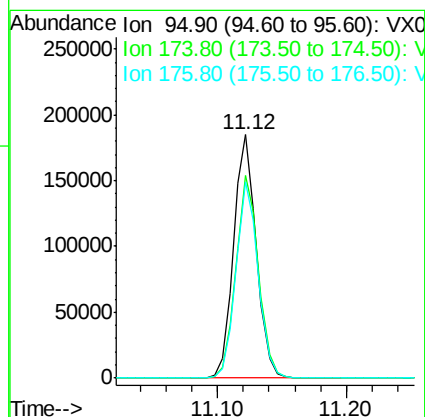
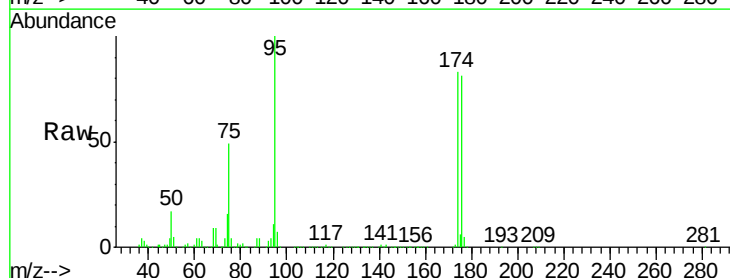
Tgt Ion: 95 Resp: 226797

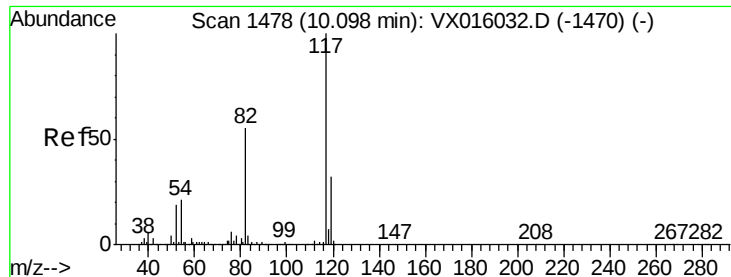
Ion Ratio Lower Upper

95 100

174 82.9 0.0 159.4

176 79.4 0.0 157.6

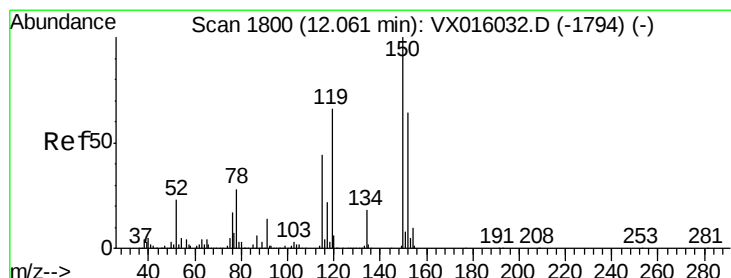
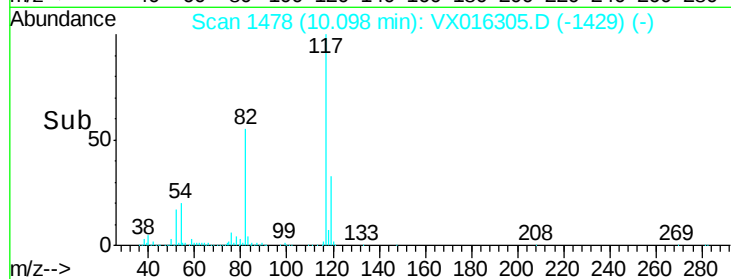
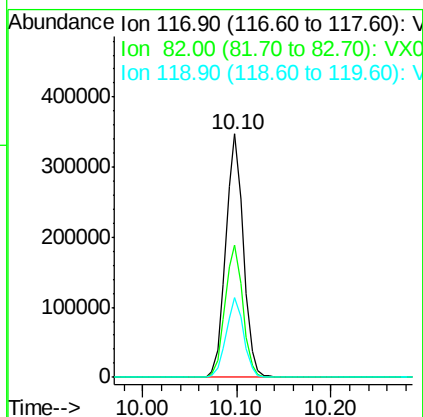
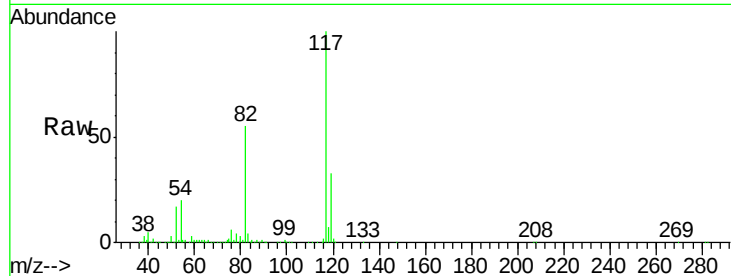




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

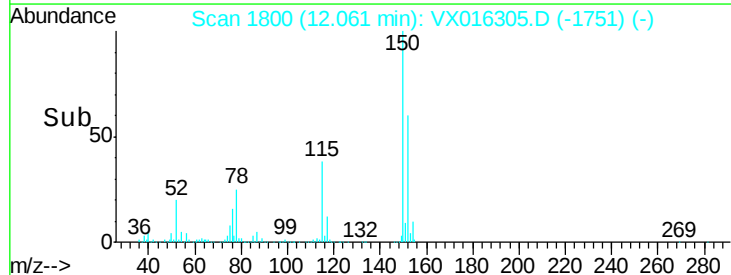
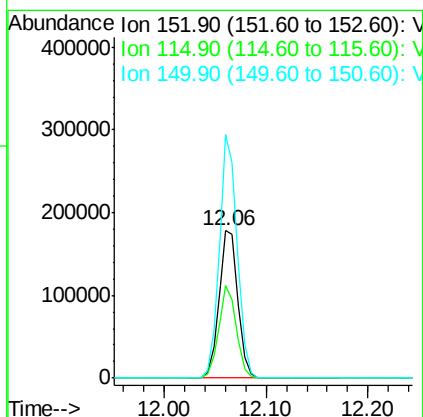
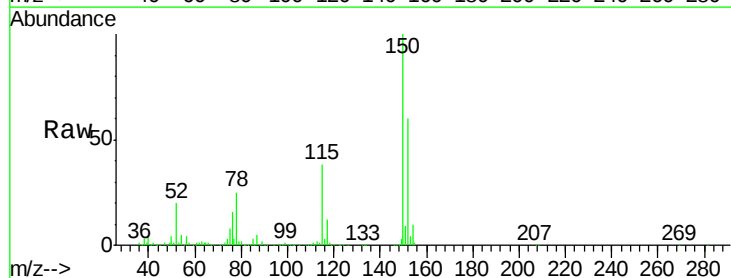
Instrument :
MSVOA_X
ClientSampled :

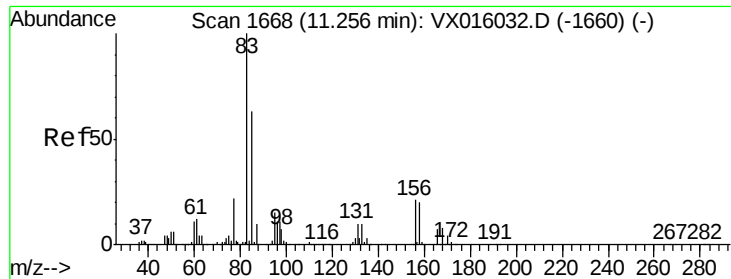
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.4	66.6
119	32.6	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016305.D
Acq: 18 May 2020 17:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	41.3	124.1
150	157.4	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.056 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016305.D

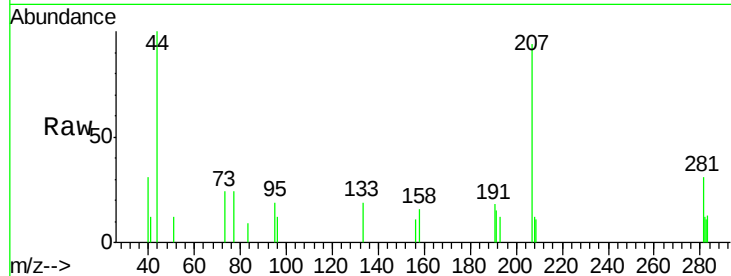
Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

ClientSampled :

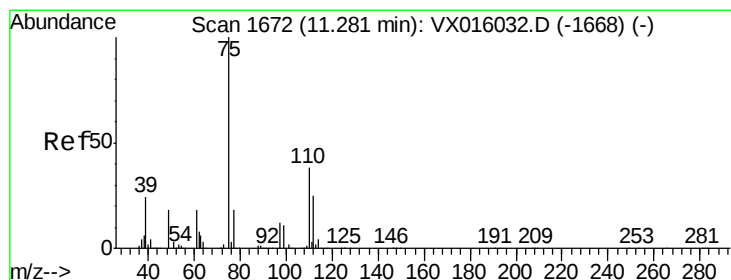
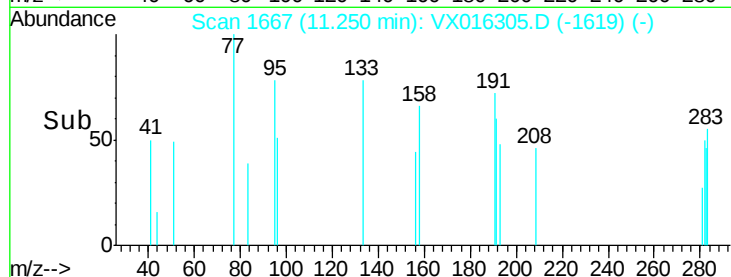
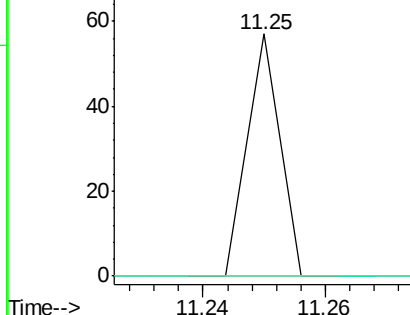
Tot Ion	83	Resp	21
Ion Ratio	100		
Lower			
Upper			
83	100		
131	0.0	5.1	15.4#
85	0.0	32.0	96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.181 ug/l

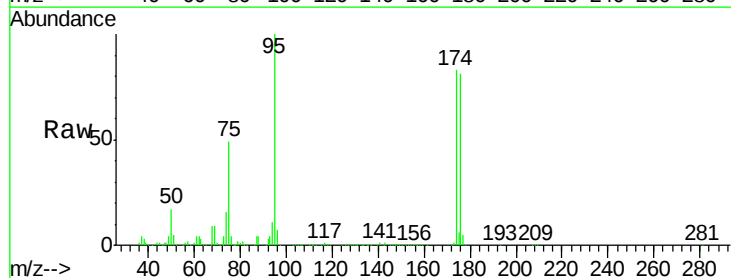
RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016305.D

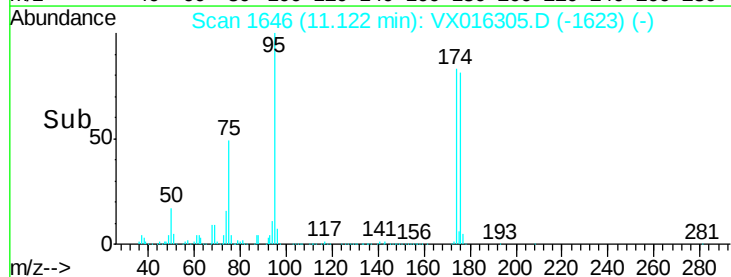
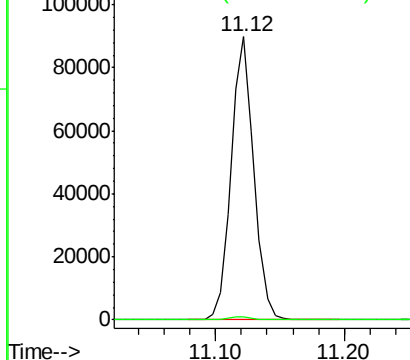
Acq: 18 May 2020 17:41

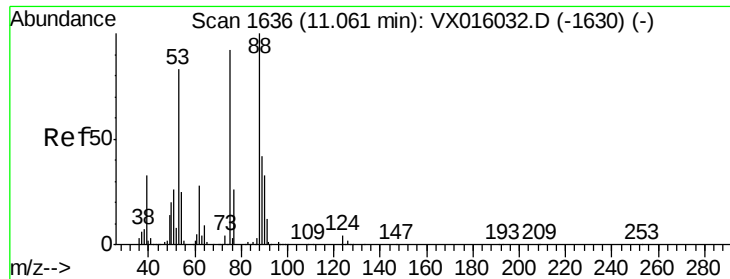
Tgt Ion	75	Resp	110276
Ion Ratio	100		
Lower			
Upper			
75	100		
77	1.2	21.2	63.6#



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: 50.476 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

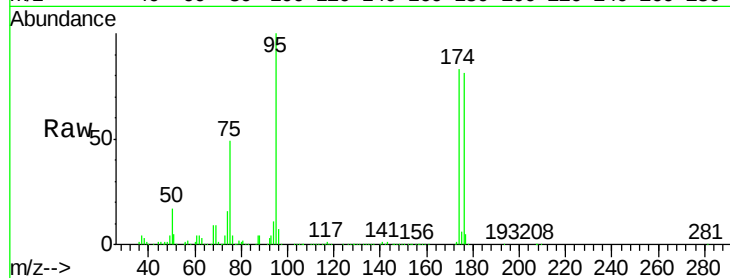
Tot Ion: 75 Resp: 110276

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

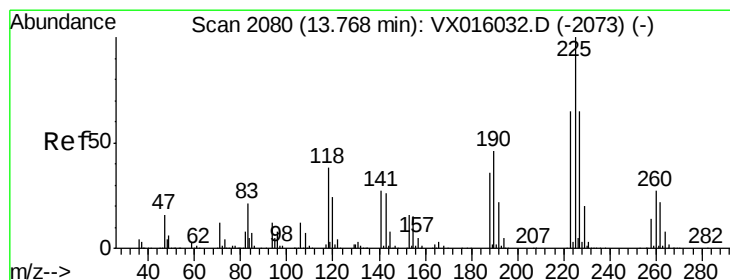
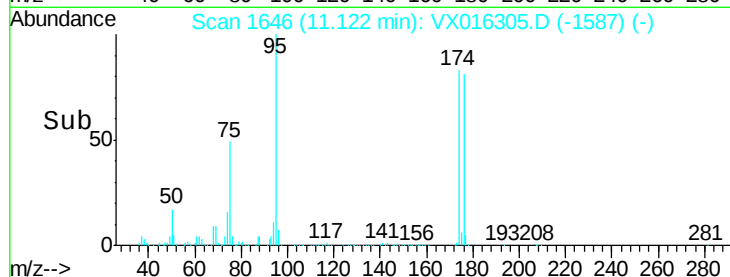
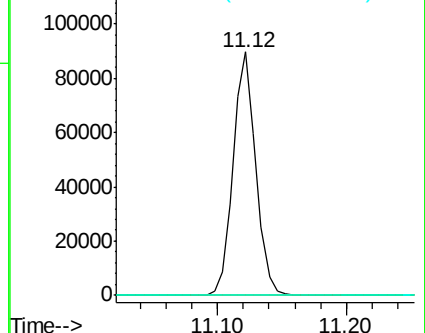
89 0.0 36.7 55.1#



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: 0.594 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016305.D

Acq: 18 May 2020 17:41

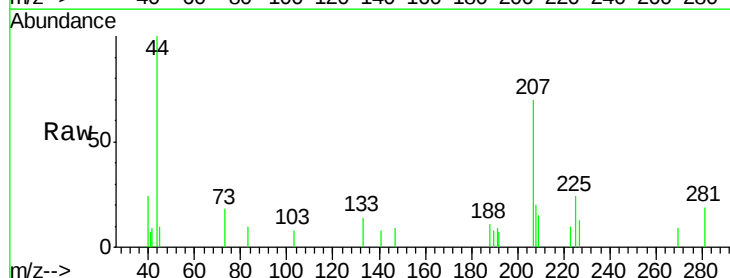
Tgt Ion: 225 Resp: 170

Ion Ratio Lower Upper

225 100

223 52.4 32.3 96.9

227 50.6 31.8 95.4



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

