

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010465.D
 Acq On : 26 Jun 2019 16:09
 Operator : JC/SP
 Sample : K3527-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:13:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	251929	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	387237	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	355497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167762	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	118469	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	5.50	113	118627	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	8.71	98	462161	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	11.13	95	156282	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	

Target Compounds

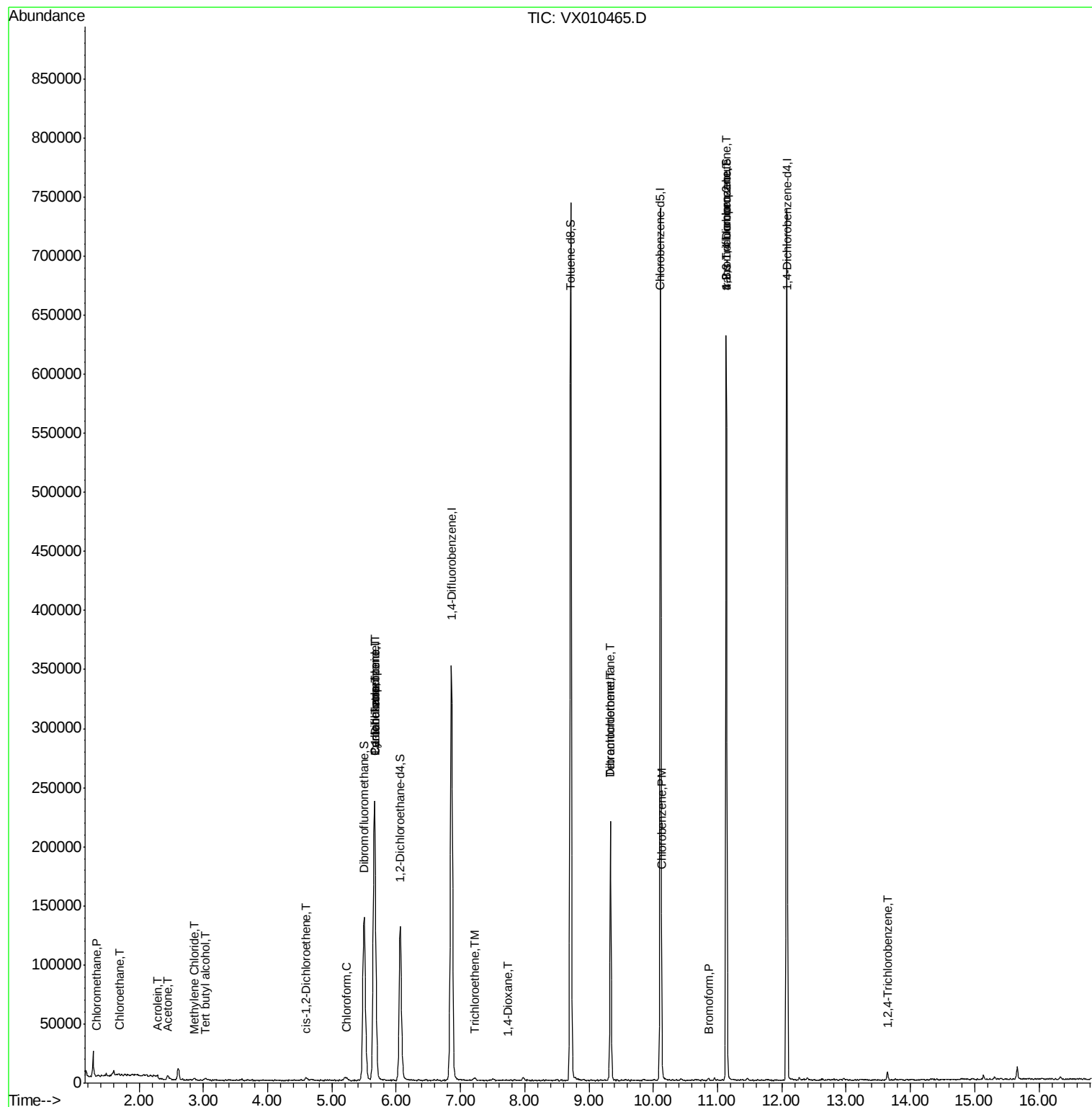
					Qvalue	
3) Chloromethane	1.33	50	413	0.203	ug/l	90
6) Chloroethane	1.70	64	331	0.251	ug/l #	52
11) Tert butyl alcohol	3.03	59	1593	2.577	ug/l #	91
13) Acrolein	2.29	56	129	0.315	ug/l #	14
16) Acetone	2.44	43	4561	3.853	ug/l	93
20) Methylene Chloride	2.85	84	490	0.201	ug/l #	70
27) cis-1,2-Dichloroethene	4.60	96	1344	0.495	ug/l	90
30) Chloroform	5.21	83	3797	0.942	ug/l	99
31) Cyclohexane	5.67	56	4578	1.342	ug/l #	23
36) 1,1-Dichloropropene	5.66	75	15055	4.892	ug/l #	48
38) Carbon Tetrachloride	5.67	117	21885	6.568	ug/l #	15
44) Trichloroethene	7.23	130	958	0.334	ug/l	81
49) 1,4-Dioxane	7.73	88	38	0.542	ug/l #	1
60) Dibromochloromethane	9.34	129	38652	13.258	ug/l #	11
64) Tetrachloroethene	9.34	164	43264	15.046	ug/l	99
65) Chlorobenzene	10.13	112	1915	0.265	ug/l	98
71) Bromoform	10.86	173	707	0.309	ug/l #	98
76) 1,2,3-Trichloropropane	11.13	75	74582	24.397	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74582	56.915	ug/l #	16
93) 1,2,4-Trichlorobenzene	13.65	180	1719	0.450	ug/l	96

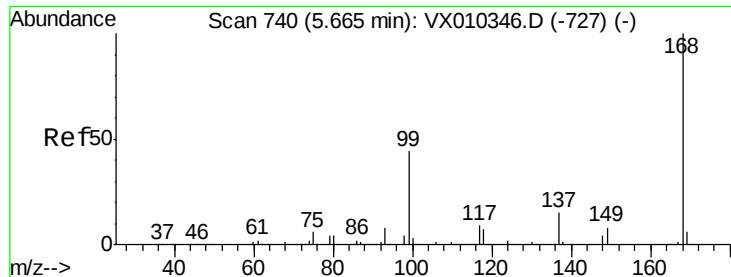
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :

Quant Time: Jun 27 01:13:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

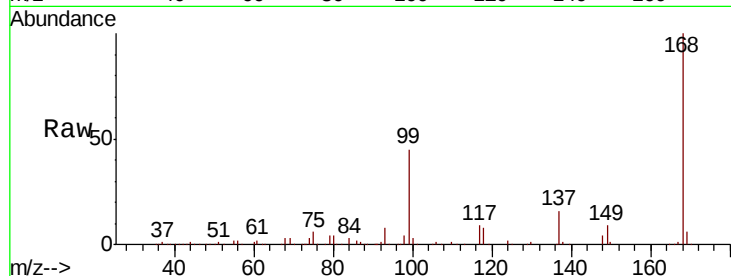
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 251929

Ion Ratio Lower Upper

168 100

99 45.5 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

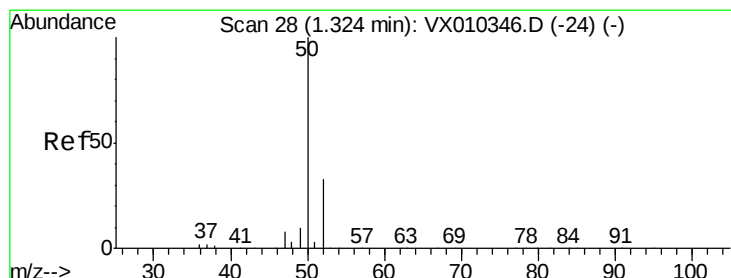
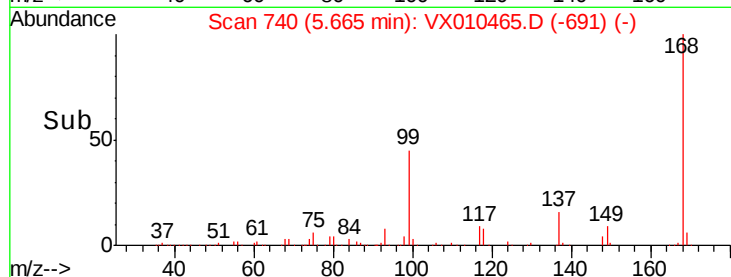
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010465.D

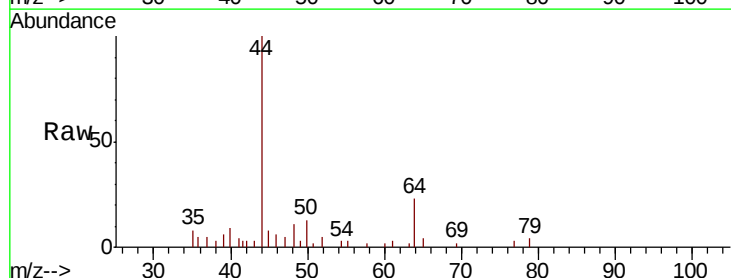
Acq: 26 Jun 2019 16:09

Tgt Ion: 50 Resp: 413

Ion Ratio Lower Upper

50 100

52 27.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

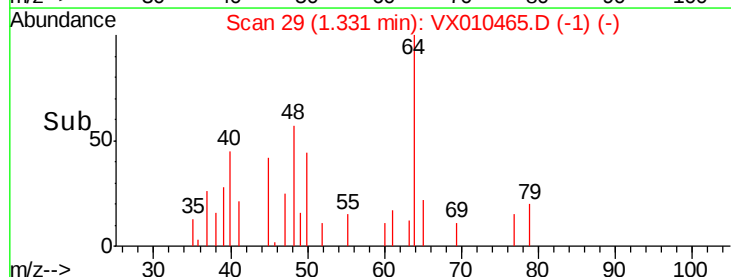
300

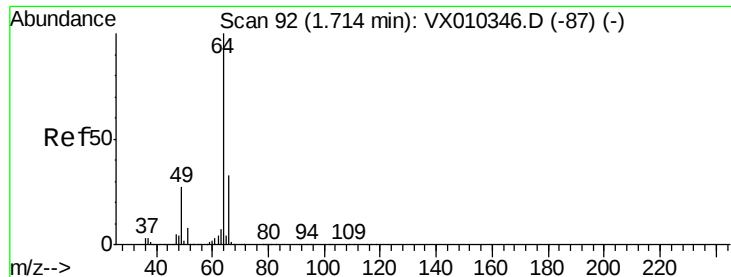
200

100

0

Time--> 1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: 0.251 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

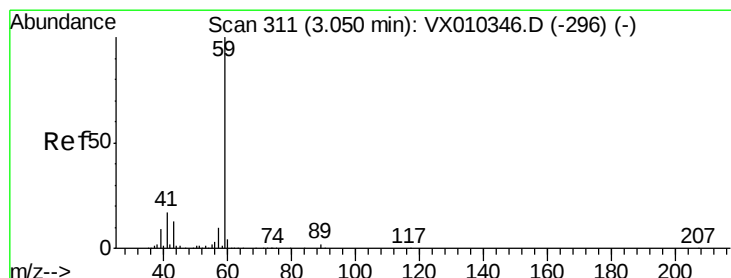
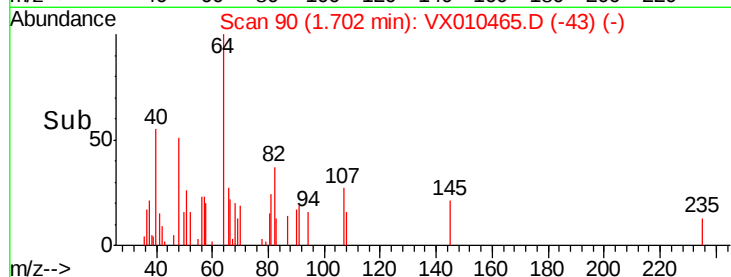
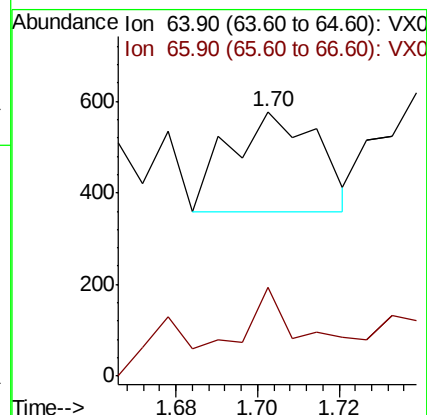
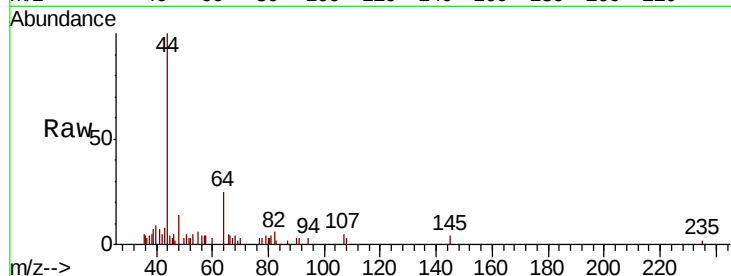
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 331

Ion Ratio Lower Upper

64 100

66 60.5 26.6 40.0#



#11

Tert butyl alcohol

Concen: 2.577 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX010465.D

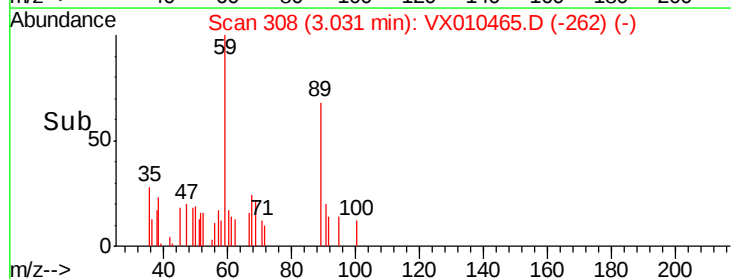
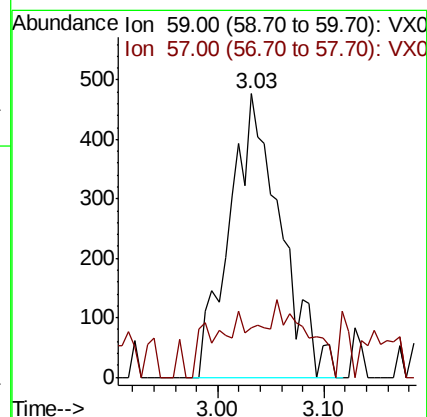
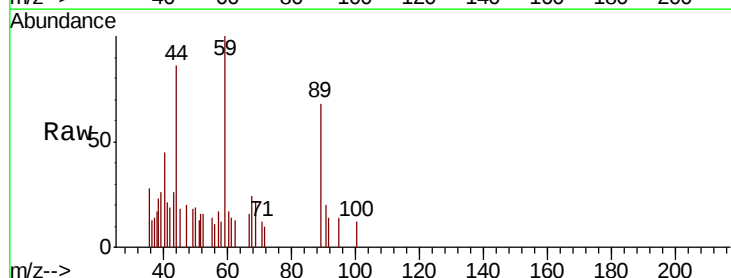
Acq: 26 Jun 2019 16:09

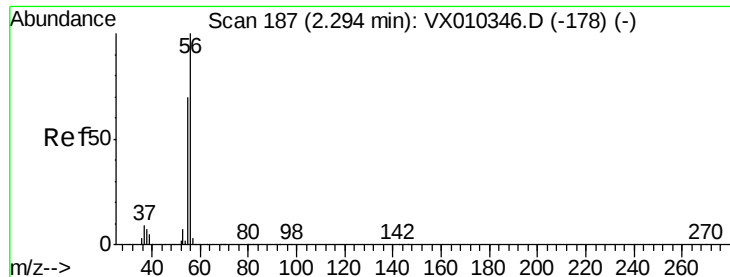
Tgt Ion: 59 Resp: 1593

Ion Ratio Lower Upper

59 100

57 6.2 7.7 11.5#





#13

Acrolein

Concen: 0.315 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

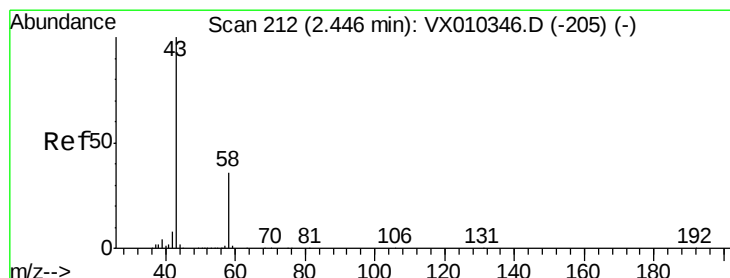
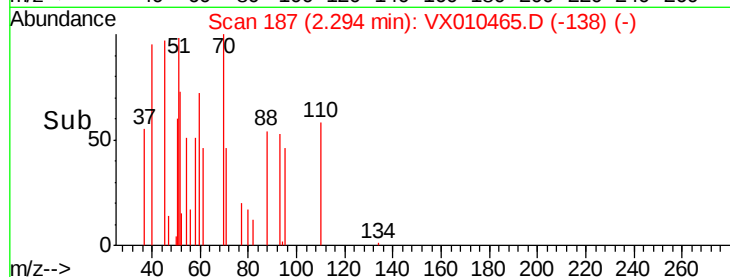
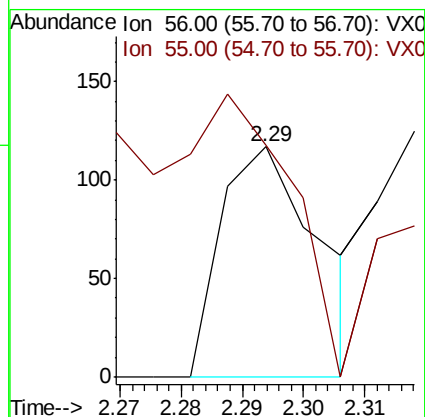
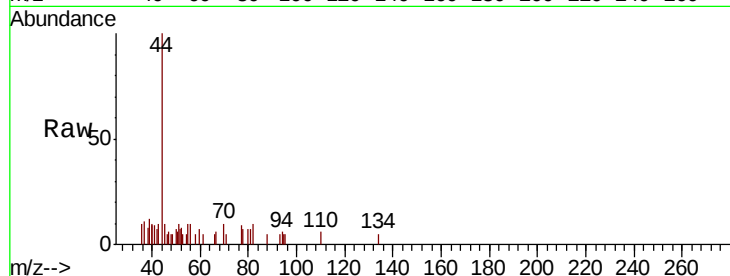
ClientSampleId :

Tot Ion: 56 Resp: 129

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 3.853 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010465.D

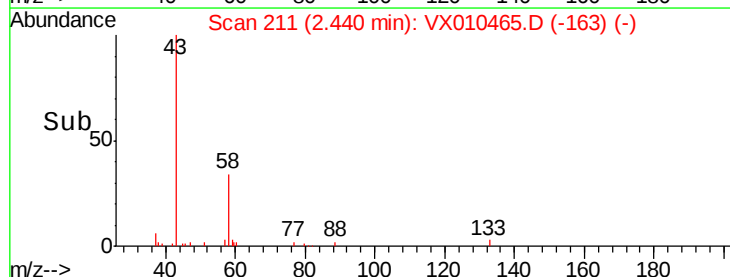
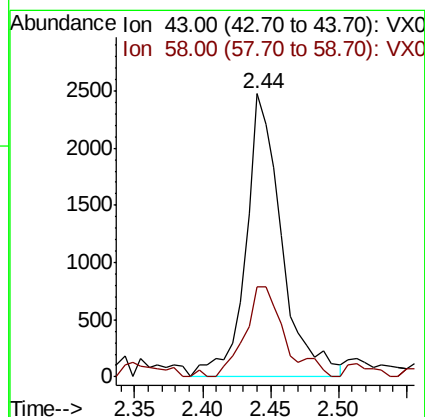
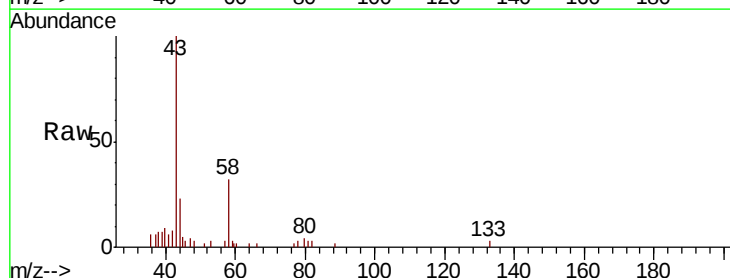
Acq: 26 Jun 2019 16:09

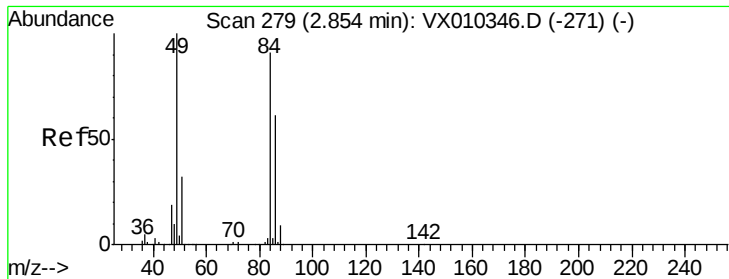
Tgt Ion: 43 Resp: 4561

Ion Ratio Lower Upper

43 100

58 31.9 28.9 43.3





#20

Methylene Chloride

Concen: 0.201 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX010465.D

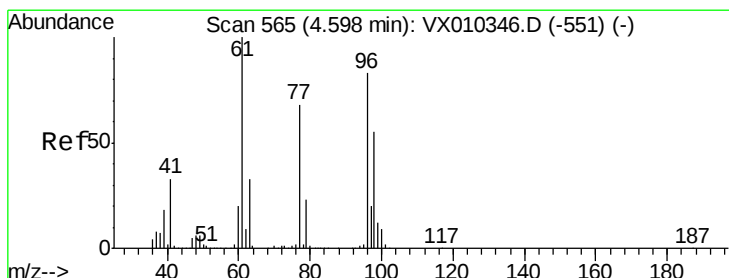
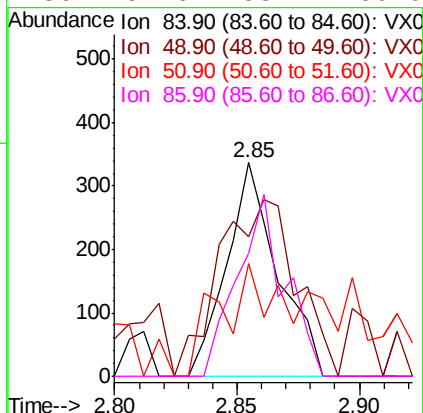
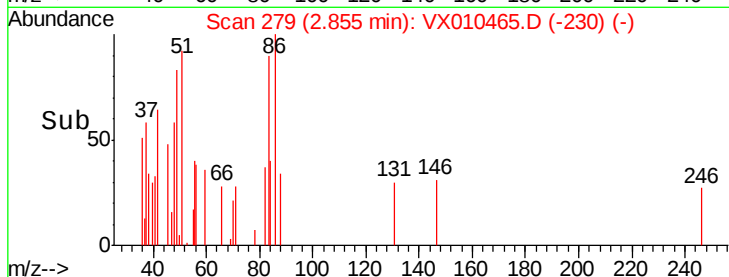
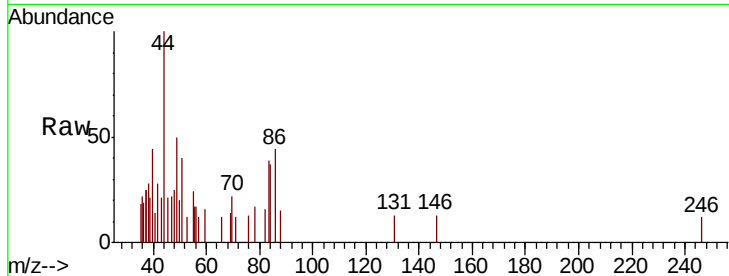
Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	84	Resp:	490
Ion	Ratio	Lower	Upper
84	100		
49	65.6	87.5	131.3#
51	52.8	27.7	41.5#
86	57.6	53.4	80.0



#27

cis-1,2-Dichloroethene

Concen: 0.495 ug/l

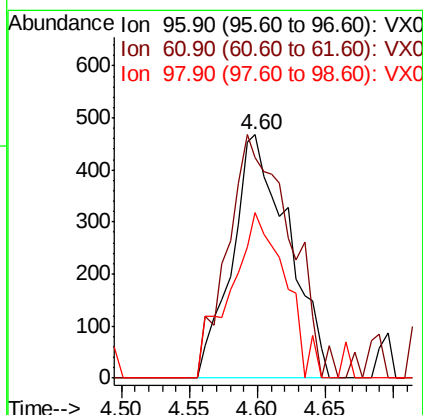
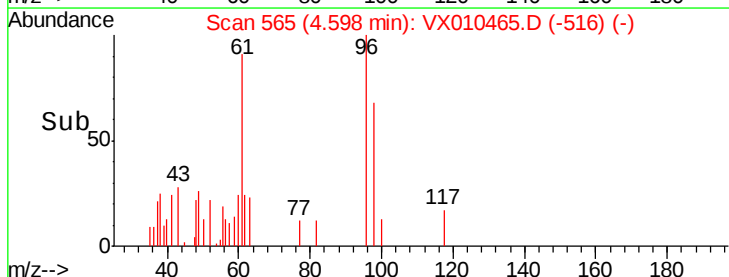
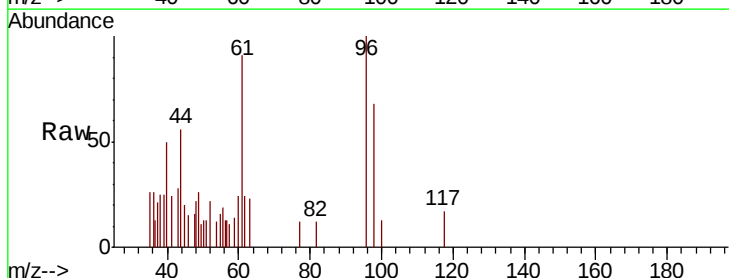
RT: 4.60 min Scan# 565

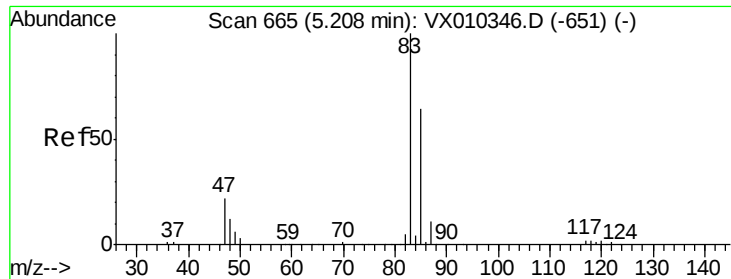
Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Tgt Ion:	96	Resp:	1344
Ion	Ratio	Lower	Upper
96	100		
61	110.9	0.0	251.8
98	67.4	0.0	129.4

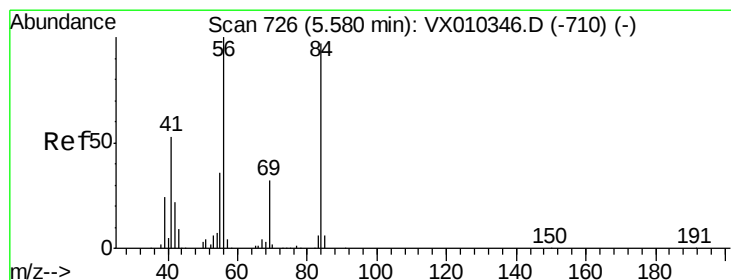
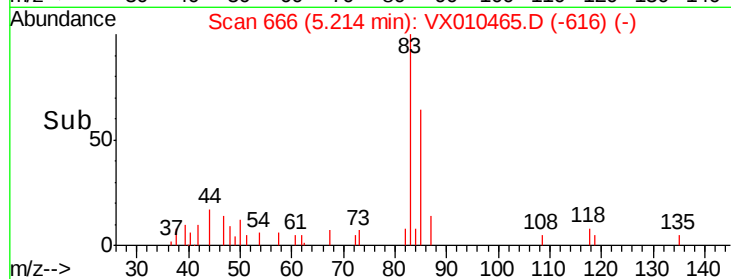
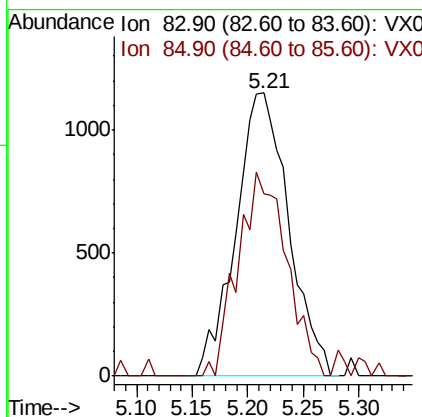
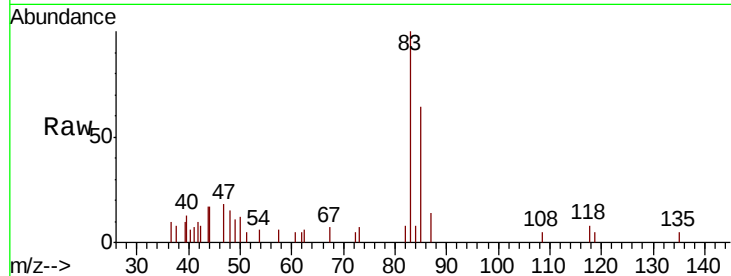




#30
Chloroform
Concen: 0.942 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

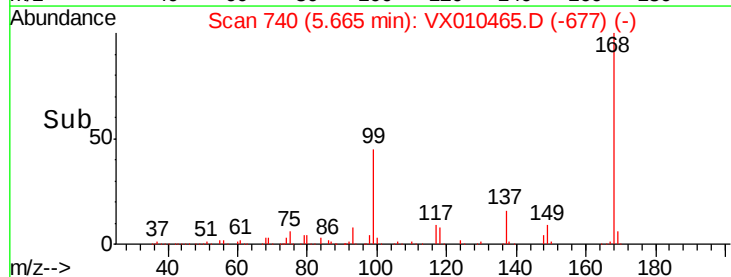
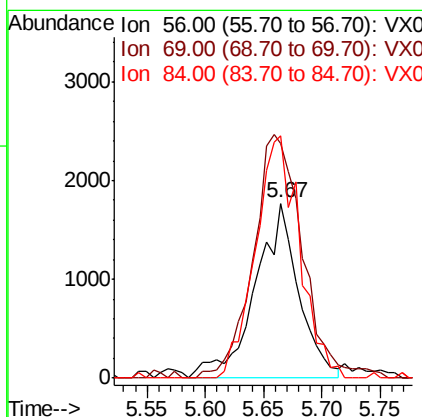
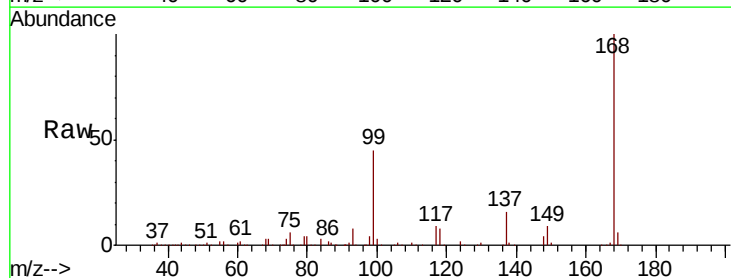
Instrument :
MSVOA_X
ClientSampleId :

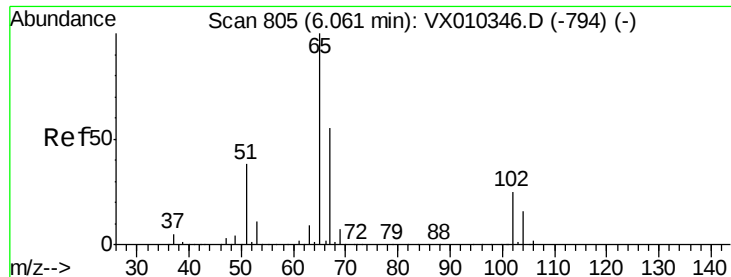
Tot Ion: 83 Resp: 3797
Ion Ratio Lower Upper
83 100
85 64.3 50.9 76.3



#31
Cyclohexane
Concen: 1.342 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion: 56 Resp: 4578
Ion Ratio Lower Upper
56 100
69 134.1 25.9 38.9#
84 138.6 78.0 117.0#





#33

1,2-Dichloroethane-d4

Concen: 50.154 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

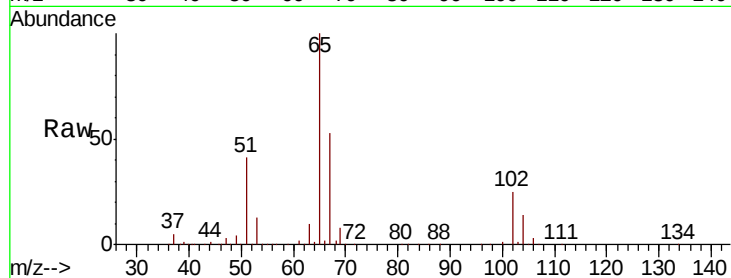
ClientSampleId :

Tot Ion: 65 Resp: 118469

Ion Ratio Lower Upper

65 100

67 55.6 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

40000

30000

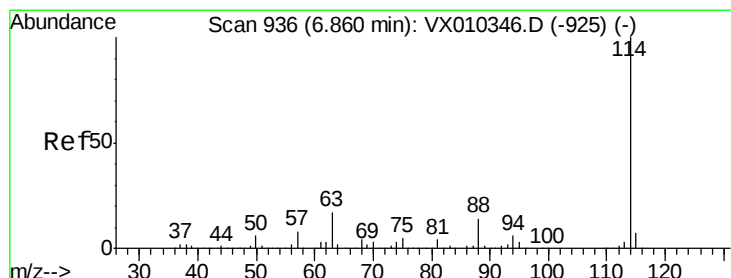
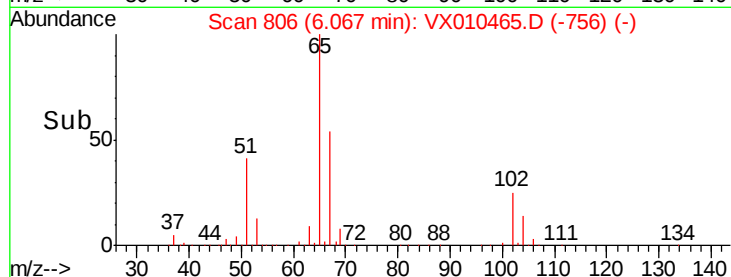
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

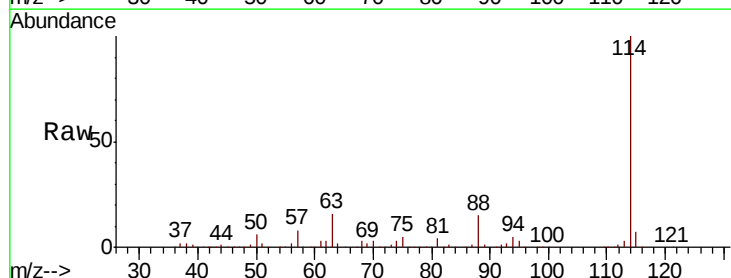
Tgt Ion: 114 Resp: 387237

Ion Ratio Lower Upper

114 100

63 16.5 0.0 33.8

88 14.6 0.0 27.6



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

6.86

200000

150000

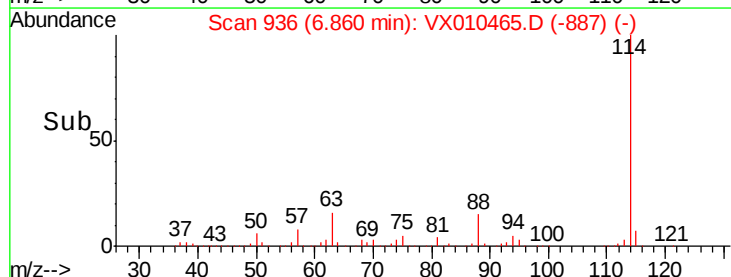
100000

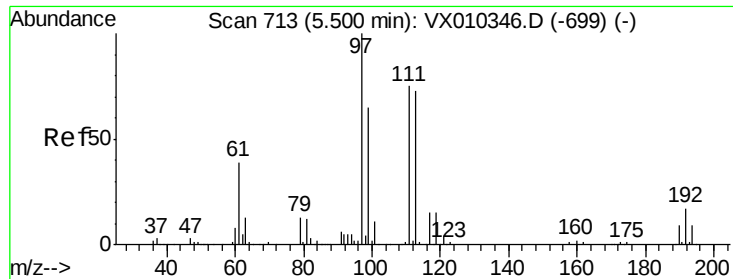
50000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.069 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

ClientSampled :

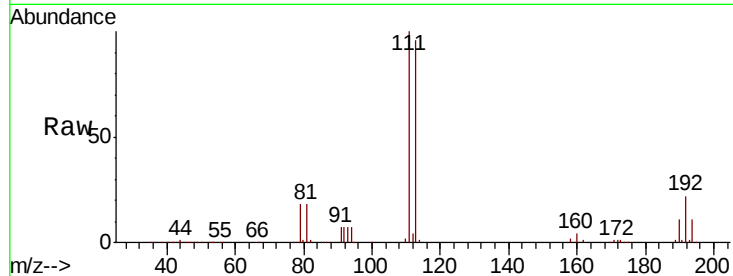
Tot Ion:113 Resp: 118627

Ion Ratio Lower Upper

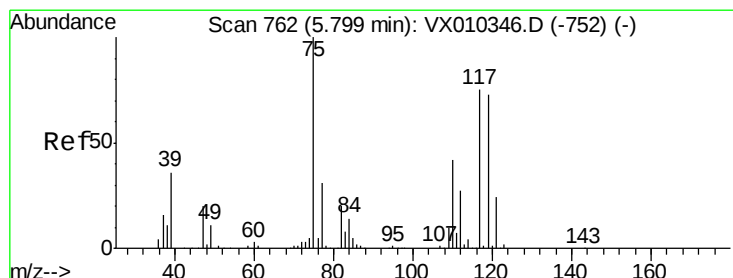
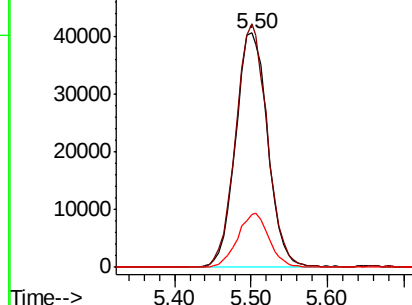
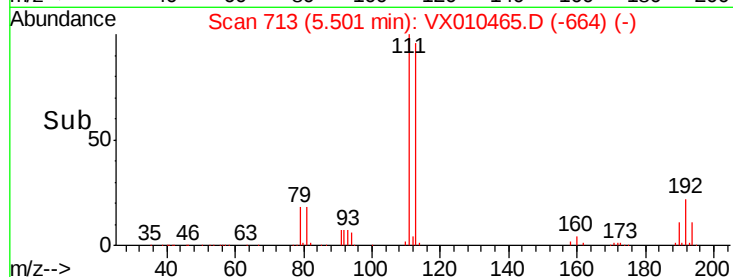
113 100

111 102.1 81.2 121.8

192 22.6 18.6 27.8



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: 4.892 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

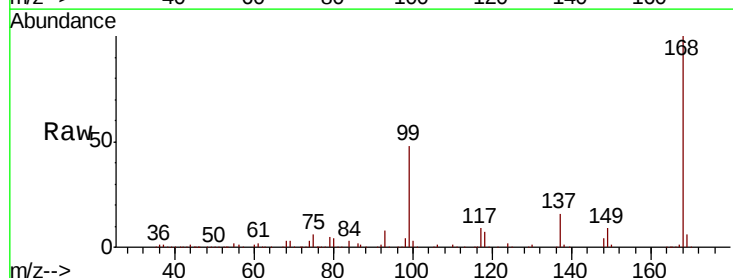
Tgt Ion: 75 Resp: 15055

Ion Ratio Lower Upper

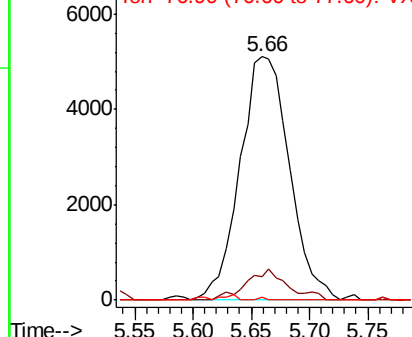
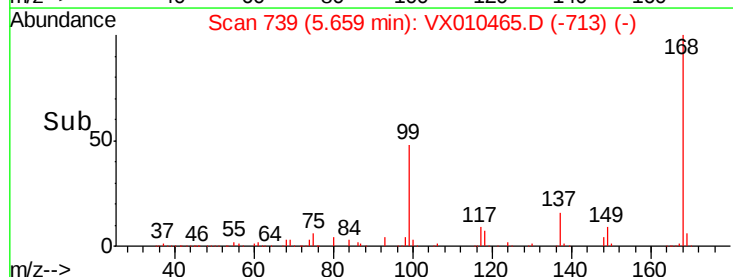
75 100

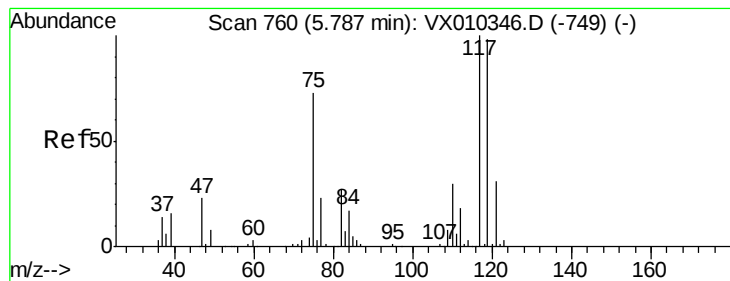
110 10.8 20.8 62.2#

77 0.1 25.4 38.0#



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: 6.568 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

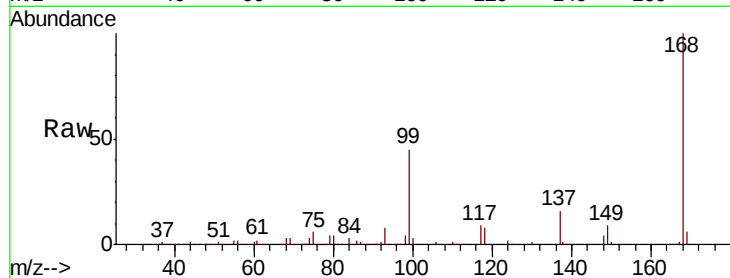
Tot Ion:117 Resp: 21885

Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.4#

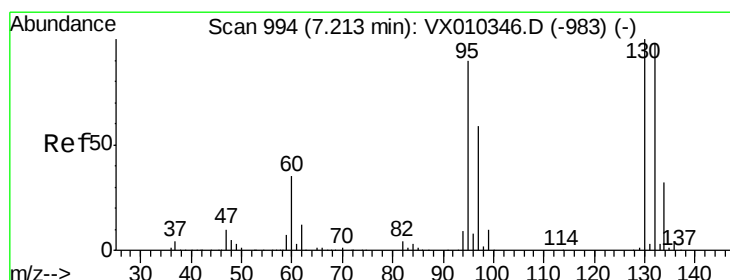
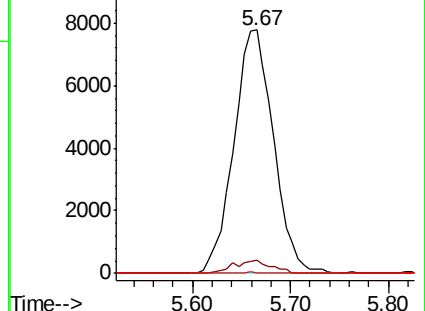
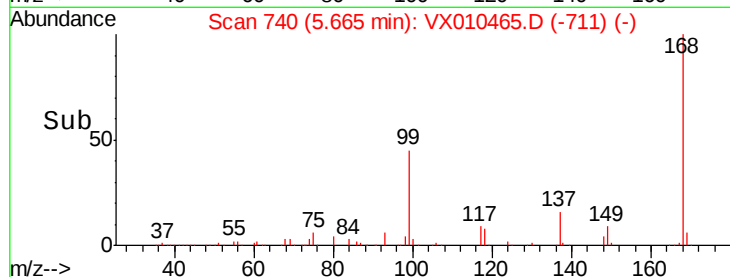
121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 0.334 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX010465.D

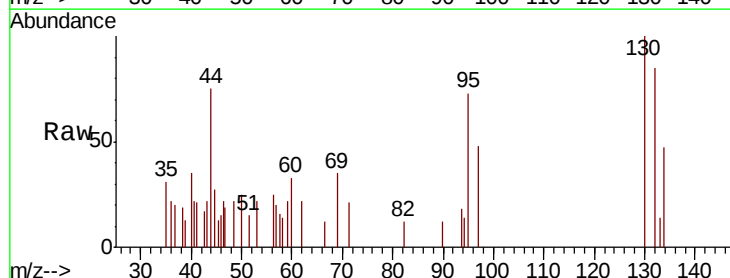
Acq: 26 Jun 2019 16:09

Tgt Ion:130 Resp: 958

Ion Ratio Lower Upper

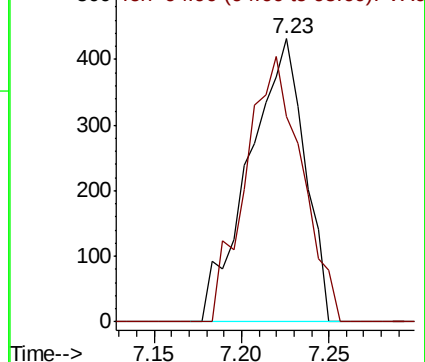
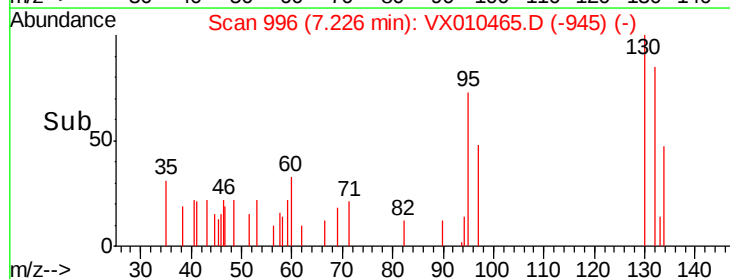
130 100

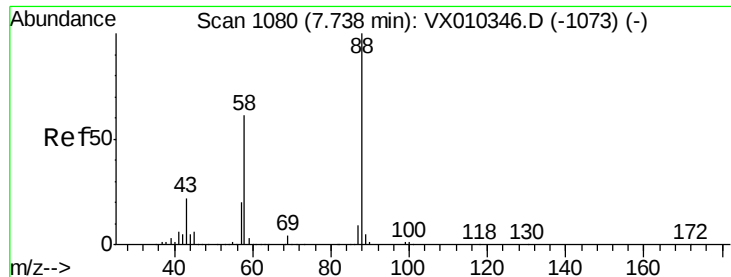
95 72.7 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

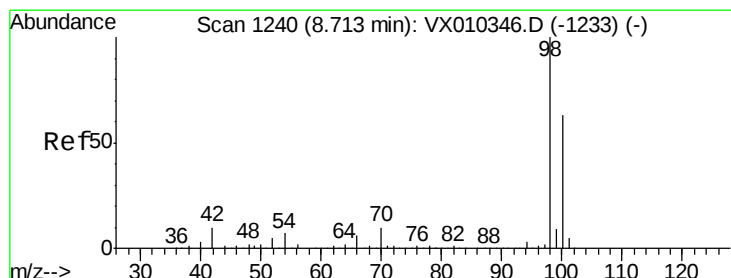
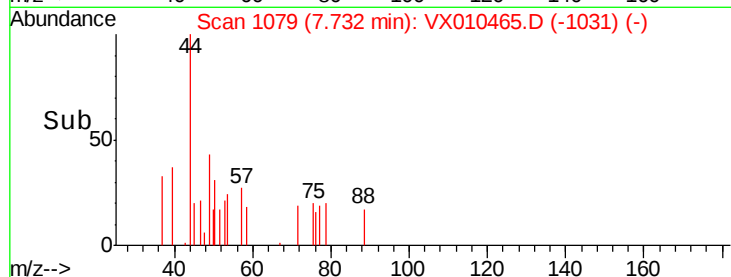
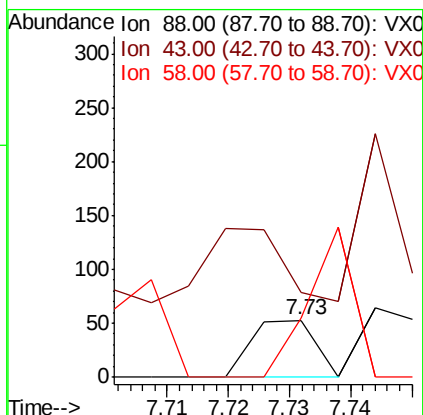
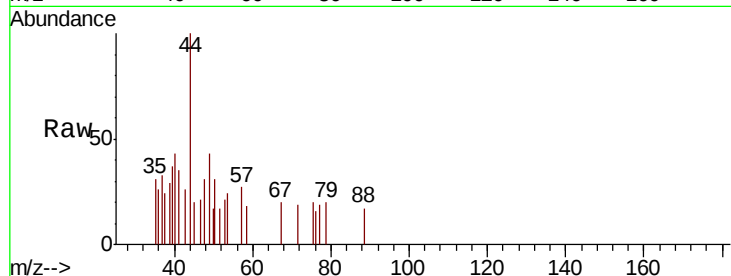




#49
1,4-Dioxane
Concen: 0.542 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

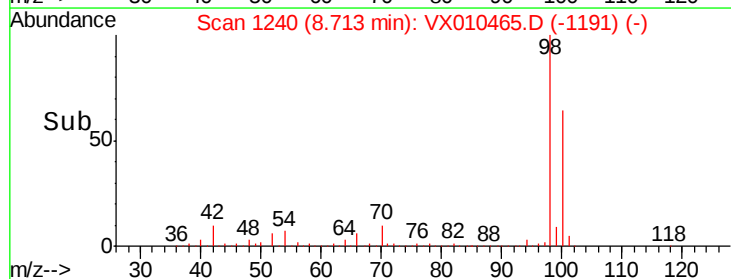
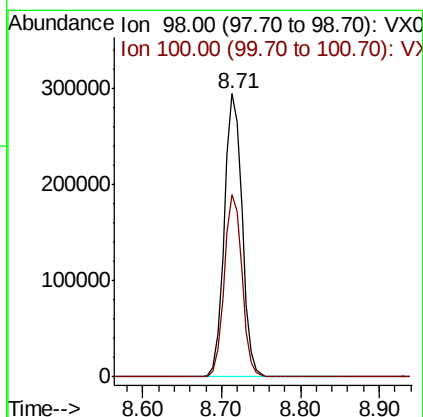
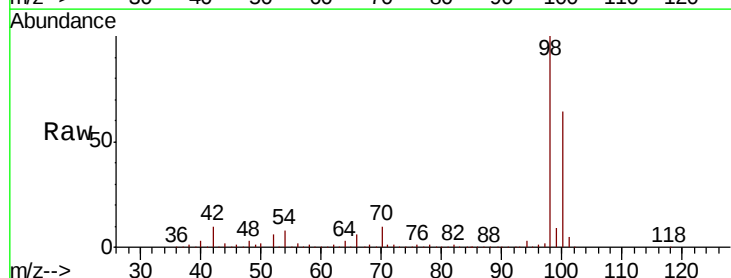
Instrument :
MSVOA_X
ClientSampled :

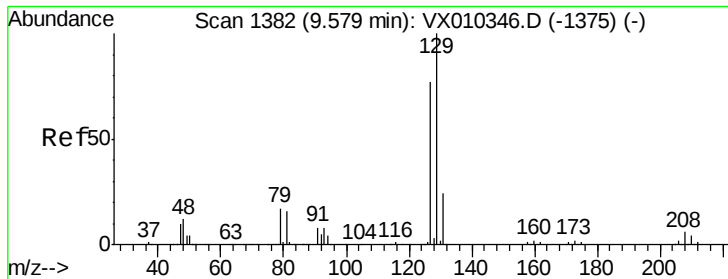
Tot Ion: 88 Resp: 38
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 186.8 49.5 74.3#



#50
Toluene-d8
Concen: 50.987 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion: 98 Resp: 462161
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4





#60

Dibromochloromethane

Concen: 13.258 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

Instrument :

MSVOA_X

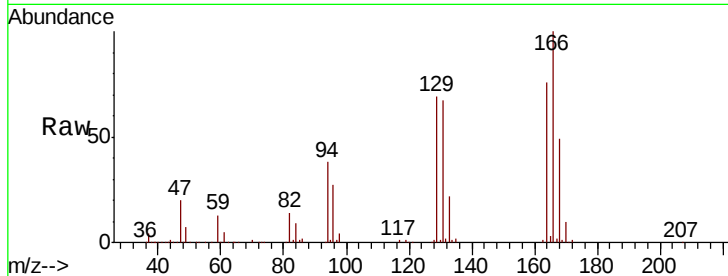
ClientSampleId :

Tot Ion:129 Resp: 38652

Ion Ratio Lower Upper

129 100

127 0.2 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

25000

20000

15000

10000

5000

0

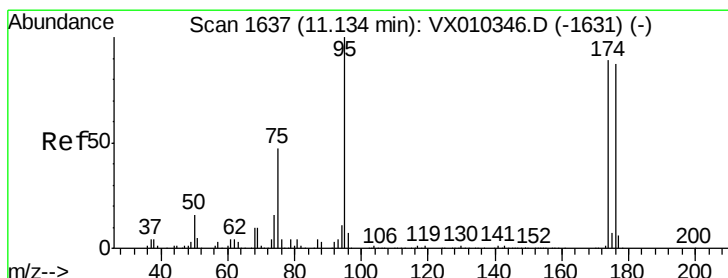
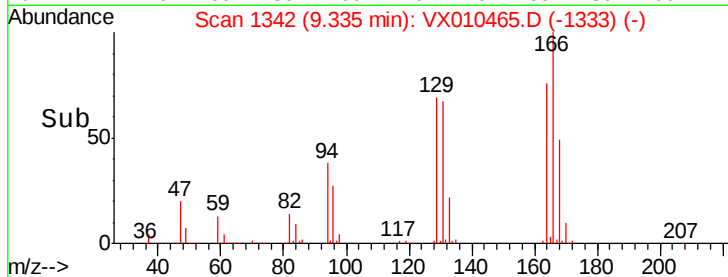
Time-->

9.25

9.30

9.35

9.40



#62

4-Bromofluorobenzene

Concen: 47.757 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010465.D

Acq: 26 Jun 2019 16:09

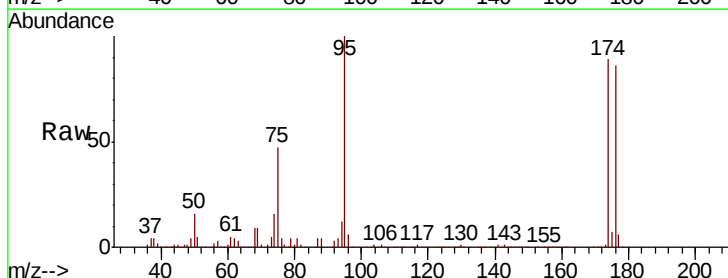
Tgt Ion: 95 Resp: 156282

Ion Ratio Lower Upper

95 100

174 95.4 0.0 187.6

176 92.3 0.0 184.0



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

11.13

150000

100000

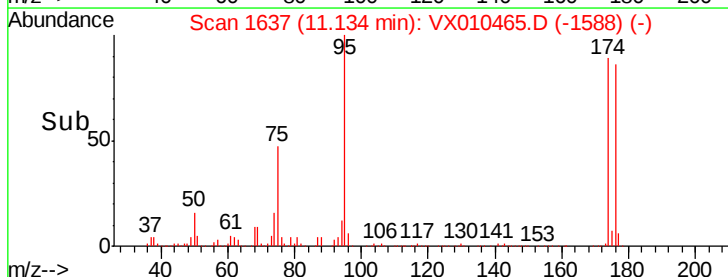
50000

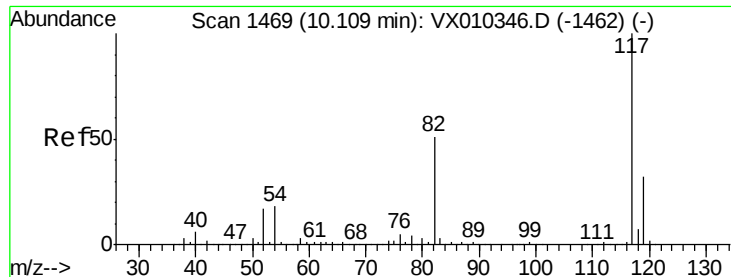
0

Time-->

11.10

11.20

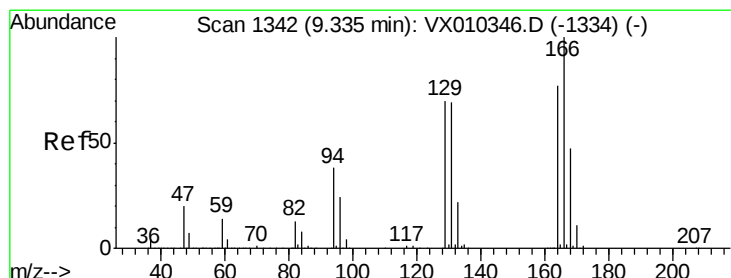
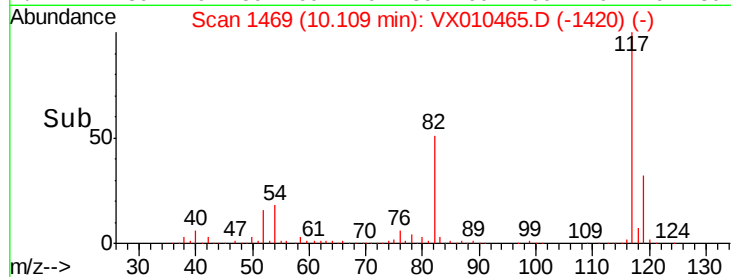
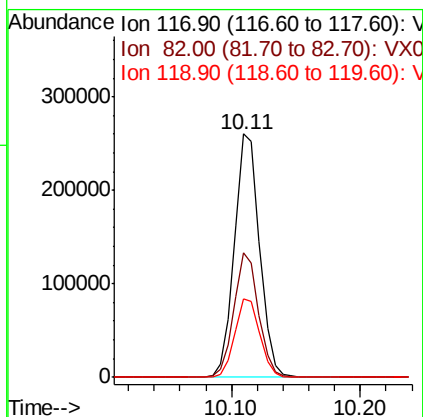
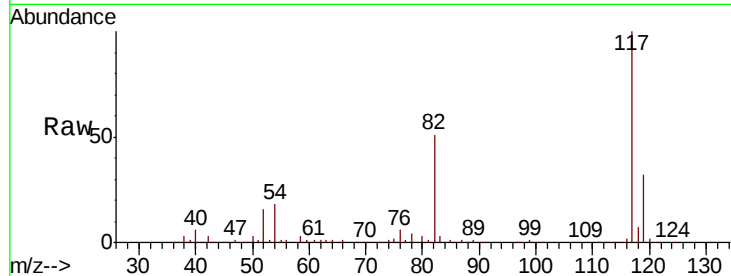




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

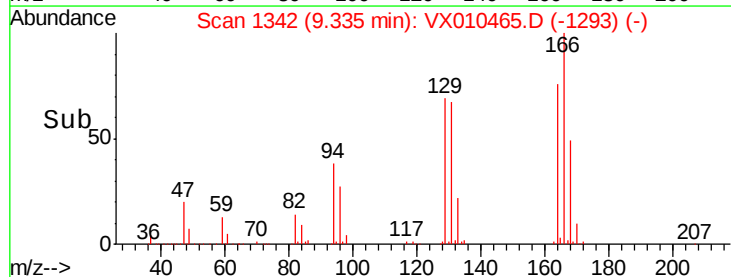
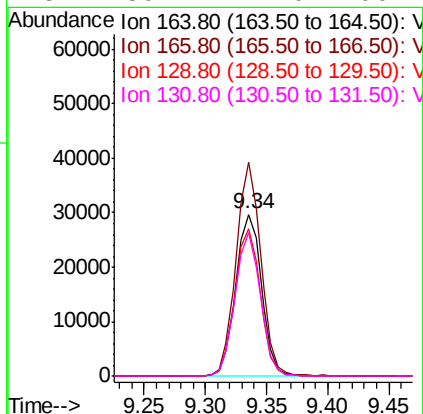
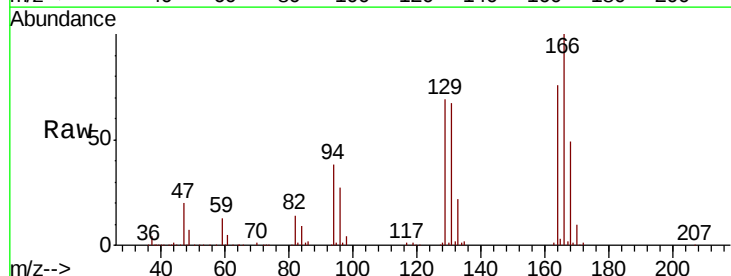
Instrument :
MSVOA_X
ClientSampleId :

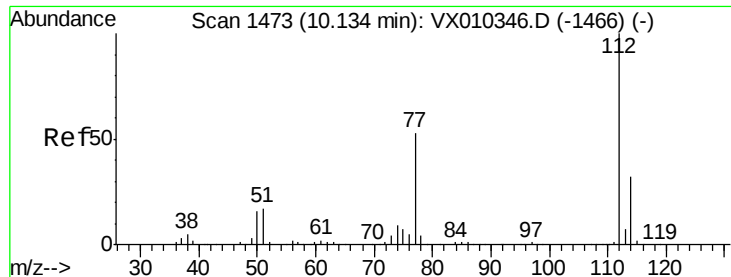
Tot Ion:117 Resp: 355497
Ion Ratio Lower Upper
117 100
82 51.0 41.2 61.8
119 32.3 25.5 38.3



#64
Tetrachloroethene
Concen: 15.046 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion:164 Resp: 43264
Ion Ratio Lower Upper
164 100
166 132.4 103.6 155.4
129 91.4 73.0 109.4
131 89.1 71.0 106.4

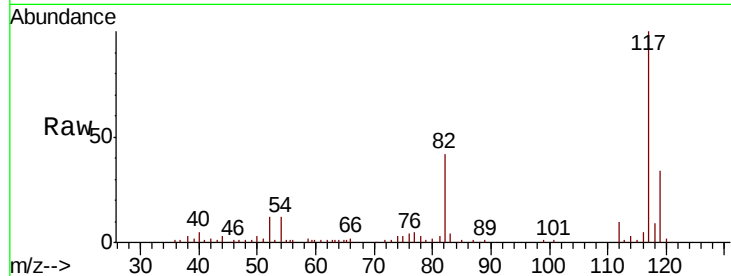




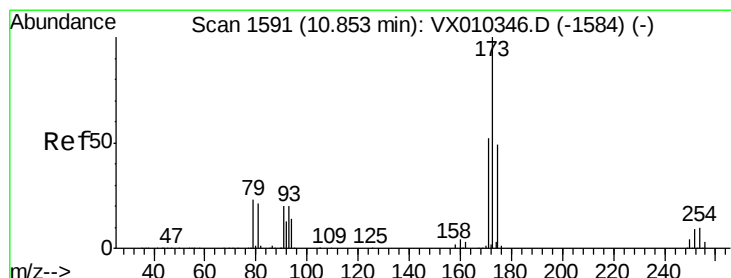
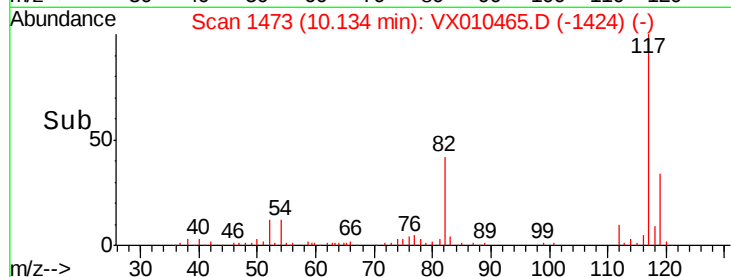
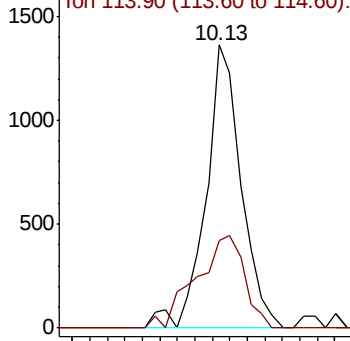
#65
Chlorobenzene
Concen: 0.265 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:112 Resp: 1915
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

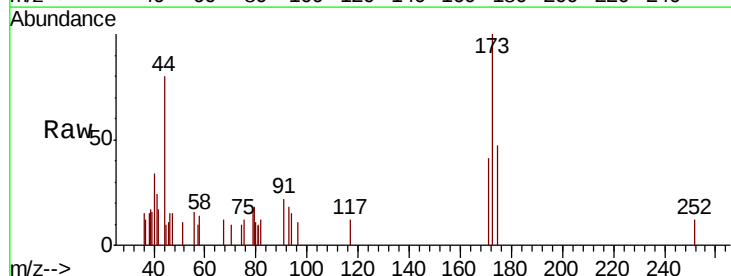


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

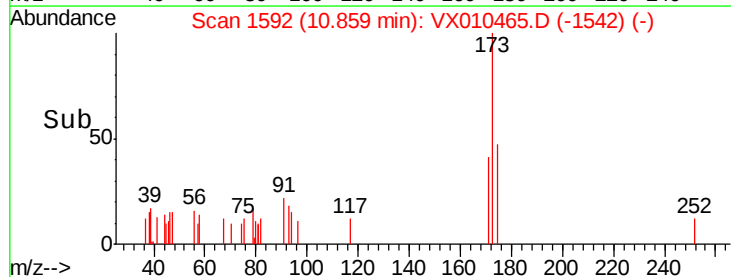
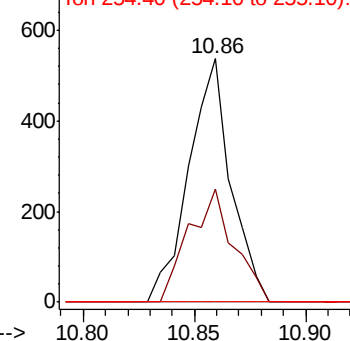


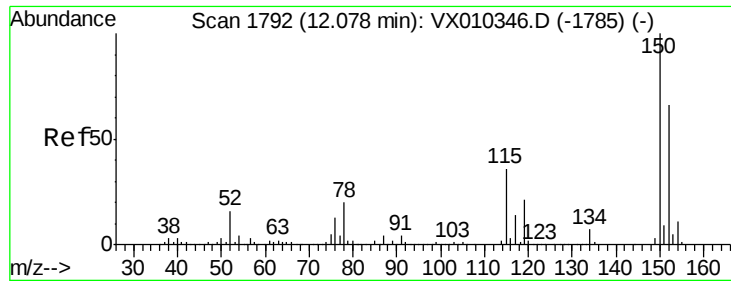
#71
Bromoform
Concen: 0.309 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion:173 Resp: 707
Ion Ratio Lower Upper
173 100
175 49.5 24.1 72.3
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



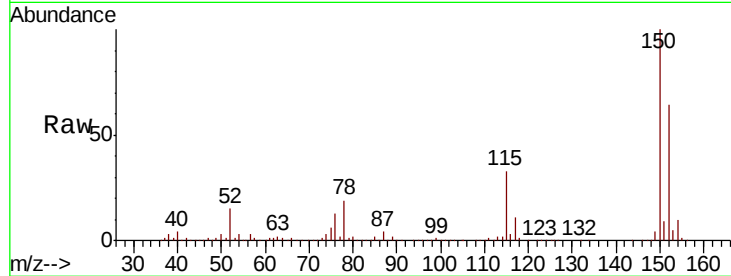


#72

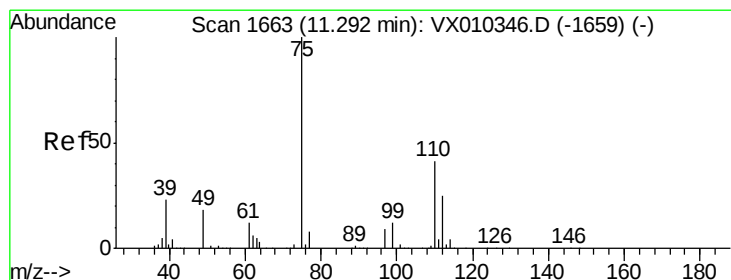
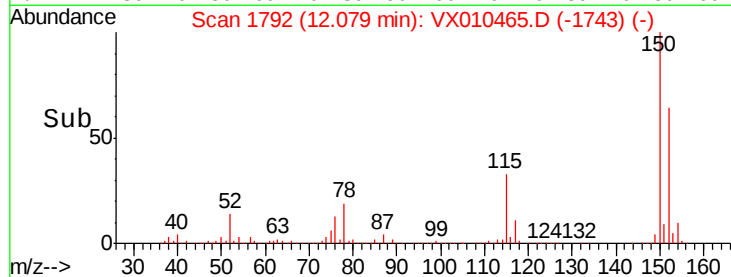
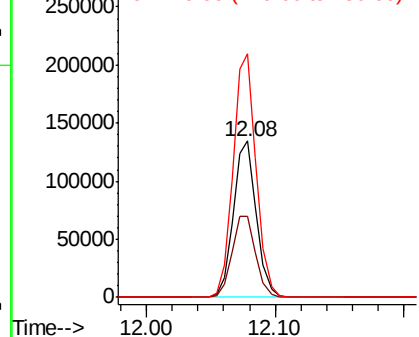
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 167762
Ion Ratio Lower Upper
152 100
115 53.9 38.6 115.7
150 156.3 0.0 347.4



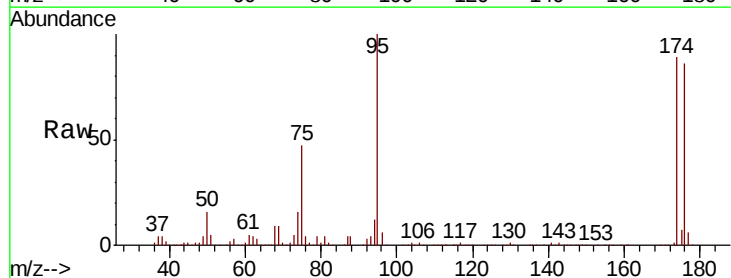
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



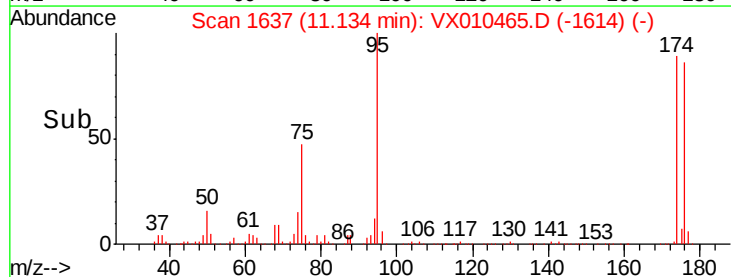
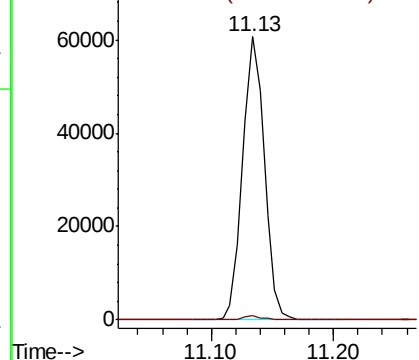
#76

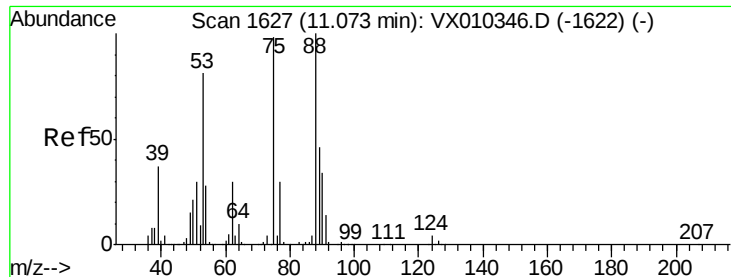
1,2,3-Trichloropropane
Concen: 24.397 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion: 75 Resp: 74582
Ion Ratio Lower Upper
75 100
77 1.3 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

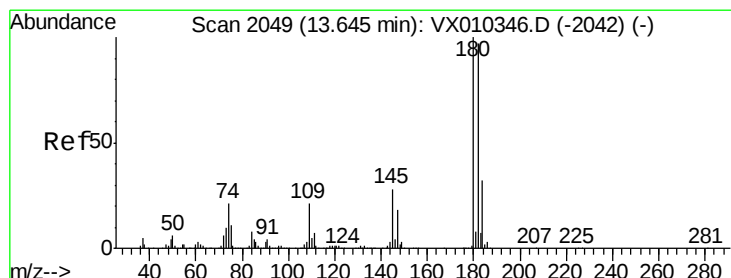
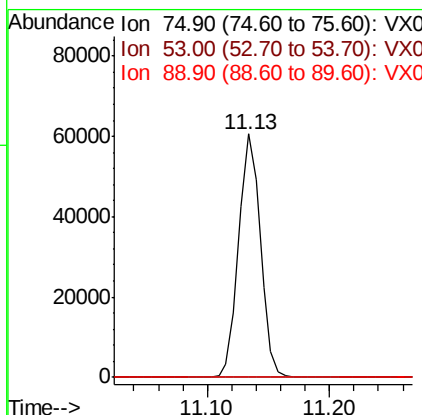
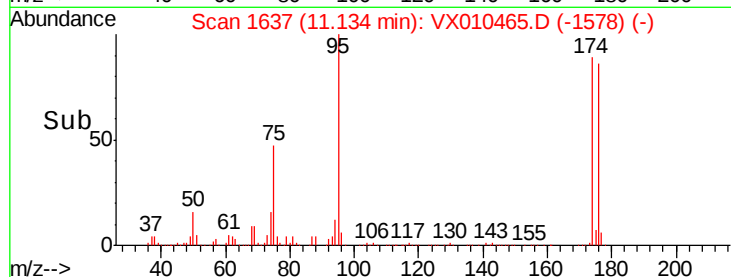
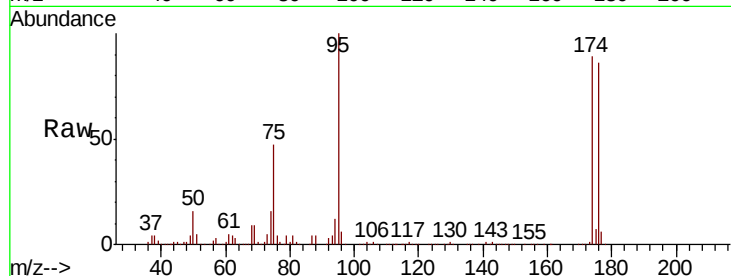




#81
trans-1,4-Dichloro-2-butene
Concen: 56.915 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 74582
Ion Ratio Lower Upper
75 100
53 0.1 66.1 99.1#
89 0.0 37.8 56.6#



#93
1,2,4-Trichlorobenzene
Concen: 0.450 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX010465.D
Acq: 26 Jun 2019 16:09

Tgt Ion: 180 Resp: 1719
Ion Ratio Lower Upper
180 100
182 92.8 48.0 144.0
145 31.9 14.4 43.4

