

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121218\
 Data File : VX006475.D
 Acq On : 13 Dec 2018 05:32
 Operator : JC/MD
 Sample : J6344-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RBR-200031

Quant Time: Dec 13 07:46:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	671968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1038057	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	956765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	462398	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	351539	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	5.51	113	294161	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	
50) Toluene-d8	8.71	98	1228765	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	11.13	95	446479	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	

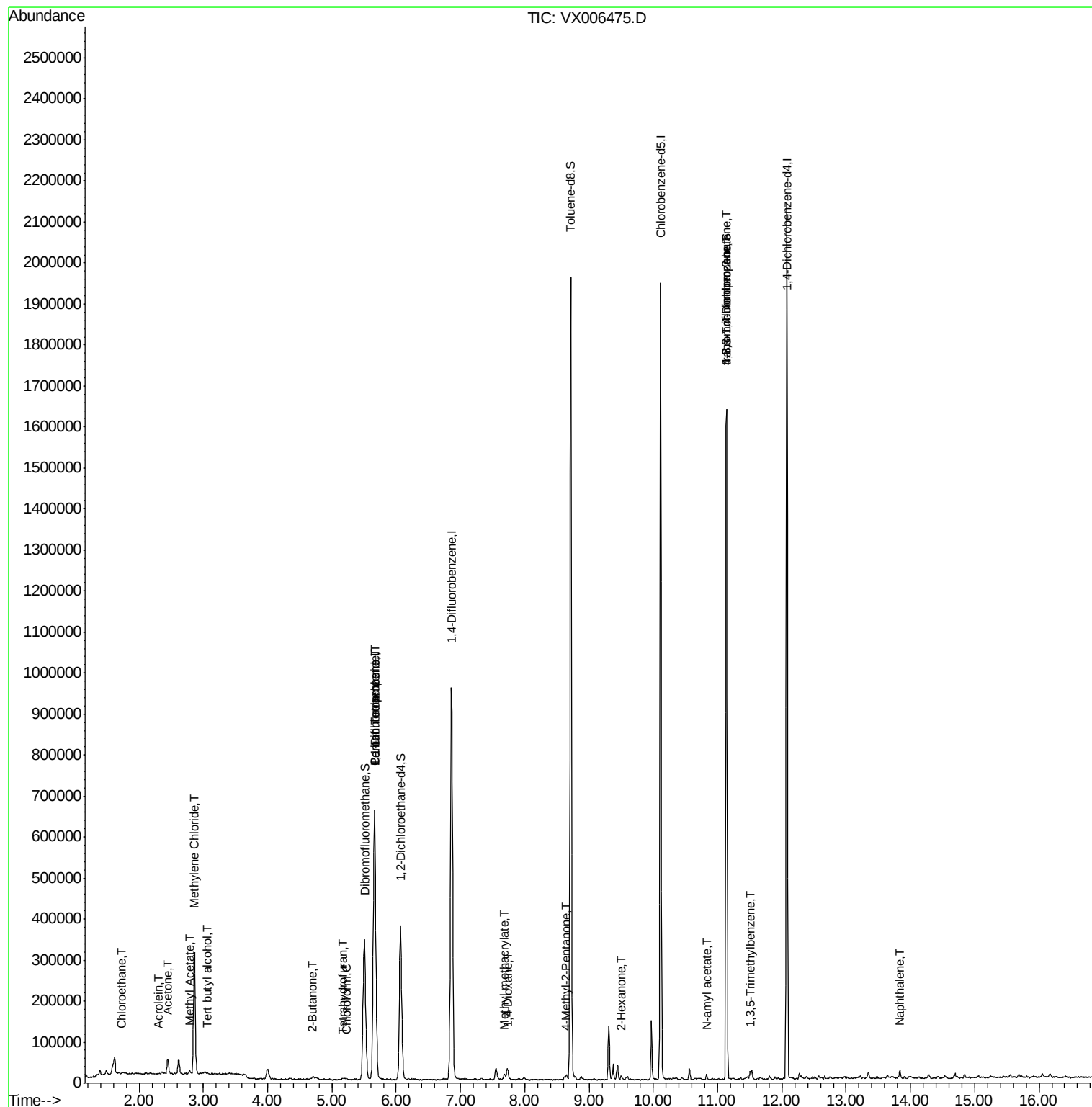
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	982	0.220	ug/l #	66
11) Tert butyl alcohol	3.06	59	3379	1.801	ug/l #	94
13) Acrolein	2.30	56	294	0.287	ug/l #	13
16) Acetone	2.45	43	40127	12.465	ug/l #	89
18) Methyl Acetate	2.78	43	8612	0.800	ug/l	92
20) Methylene Chloride	2.86	84	142142	20.747	ug/l	90
25) 2-Butanone	4.70	43	12117	2.638	ug/l	97
29) Tetrahydrofuran	5.17	42	1163	0.364	ug/l #	45
30) Chloroform	5.22	83	3303	0.293	ug/l #	61
36) 1,1-Dichloropropene	5.67	75	43795	5.010	ug/l #	49
38) Carbon Tetrachloride	5.67	117	63496	6.174	ug/l #	16
48) Methyl methacrylate	7.68	41	16788	2.114	ug/l #	21
49) 1,4-Dioxane	7.74	88	88	0.450	ug/l #	27
51) 4-Methyl-2-Pentanone	8.64	43	8828	0.929	ug/l	91
59) 2-Hexanone	9.50	43	5181	0.714	ug/l	93
74) N-amyl acetate	10.83	43	6107	0.444	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	203246	22.773	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	6919	0.260	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	203246	53.441	ug/l #	15
95) Naphthalene	13.83	128	11941	0.336	ug/l #	93

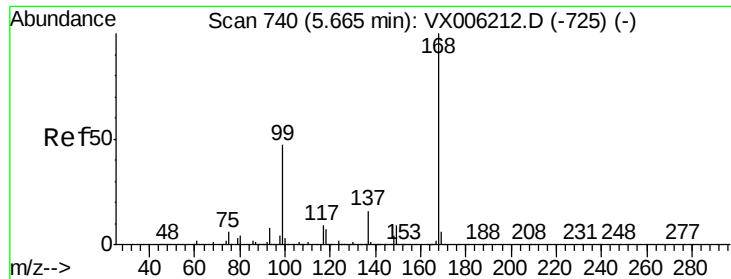
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampled :

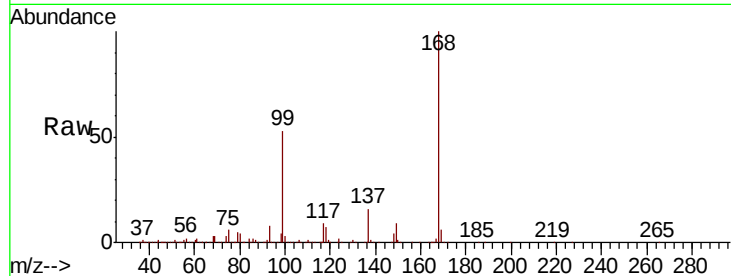
RBR-200031

Tot Ion:168 Resp: 671968

Ion Ratio Lower Upper

168 100

99 53.2 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

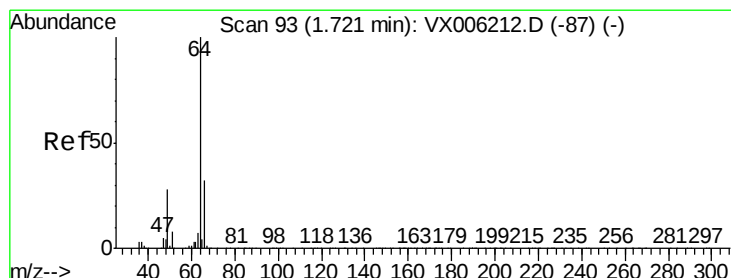
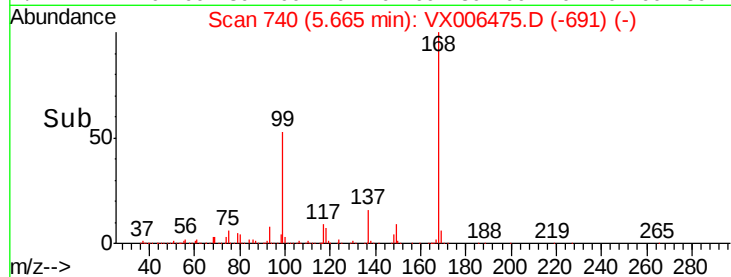
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.220 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX006475.D

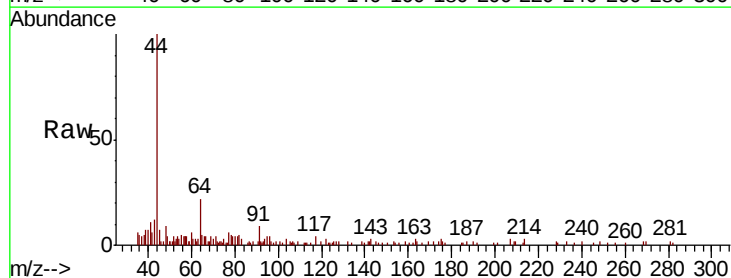
Acq: 13 Dec 2018 05:32

Tgt Ion: 64 Resp: 982

Ion Ratio Lower Upper

64 100

66 13.1 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

1200

1000

800

600

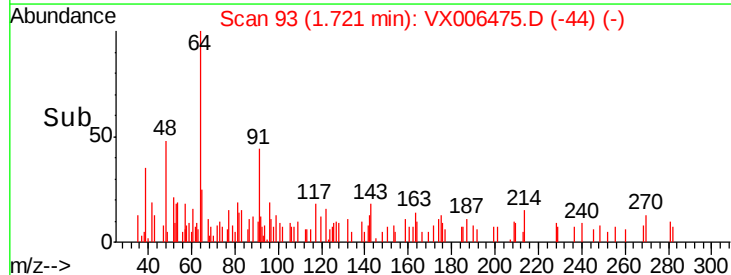
400

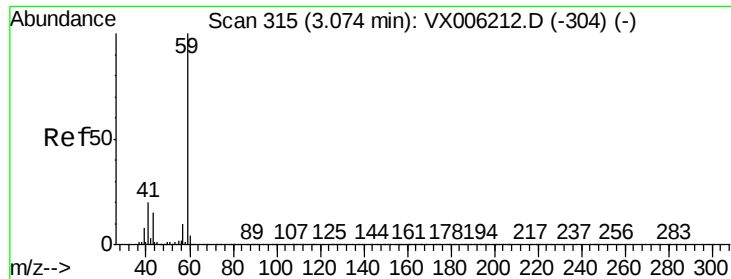
200

0

Time-->

1.66 1.68 1.70 1.72 1.74

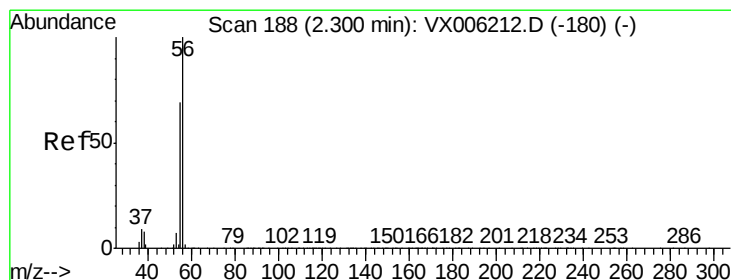
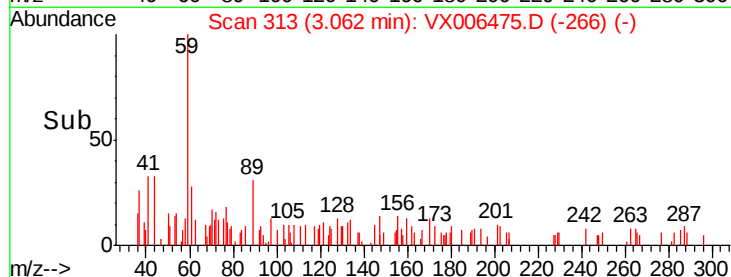
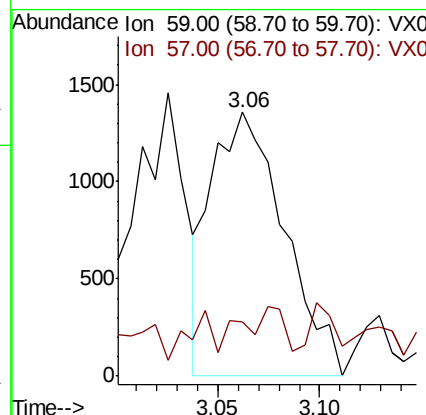
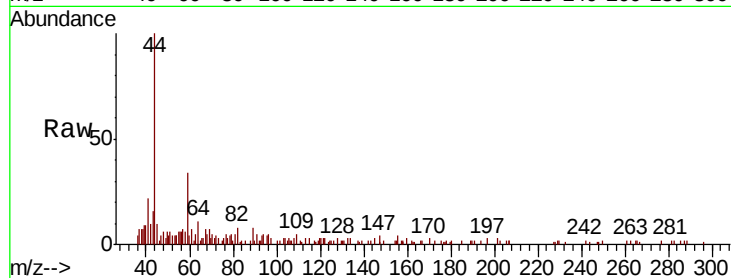




#11
Tert butyl alcohol
Concen: 1.801 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

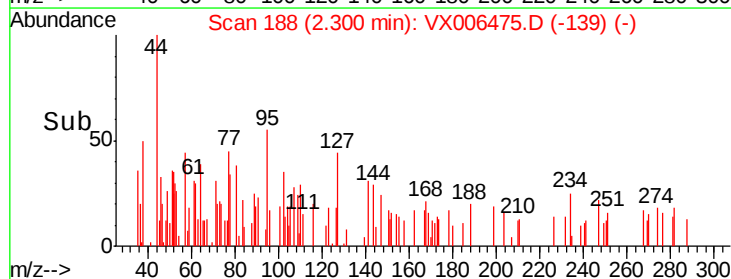
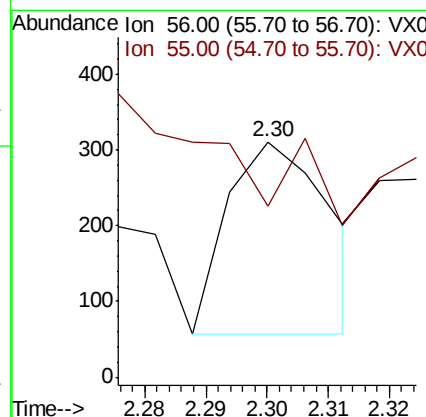
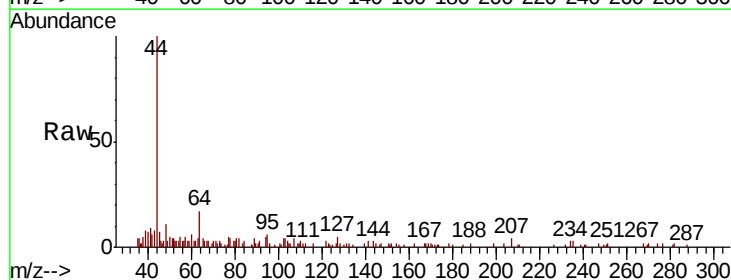
Instrument :
MSVOA_X
ClientSampleId :
RBR-200031

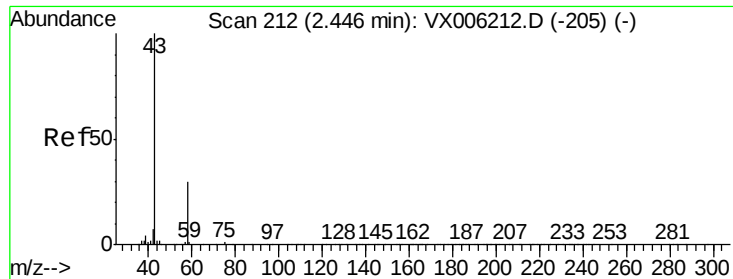
Tot Ion: 59 Resp: 3379
Ion Ratio Lower Upper
59 100
57 12.3 8.2 12.2#



#13
Acrolein
Concen: 0.287 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.00 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Tgt Ion: 56 Resp: 294
Ion Ratio Lower Upper
56 100
55 0.0 57.8 86.6#





#16

Acetone

Concen: 12.465 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

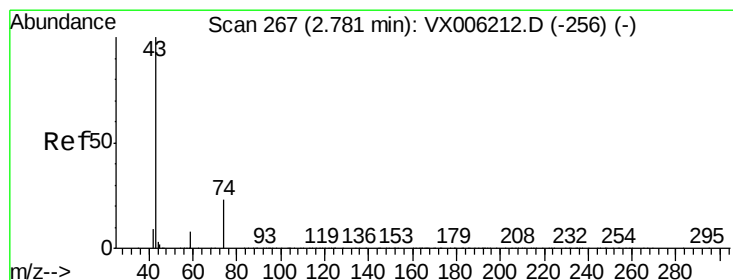
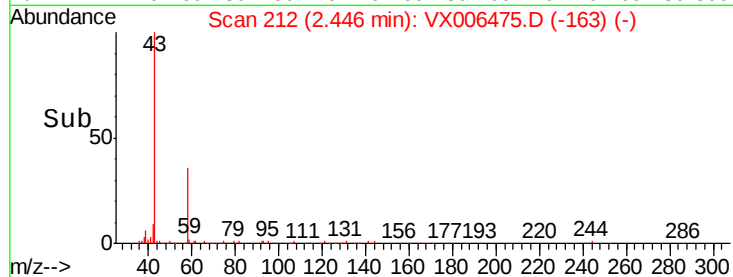
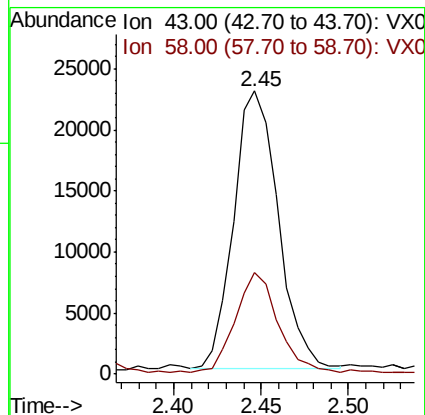
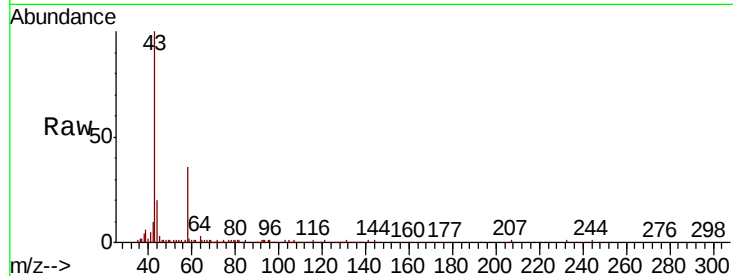
RBR-200031

Tot Ion: 43 Resp: 40127

Ion Ratio Lower Upper

43 100

58 36.0 24.0 36.0#



#18

Methyl Acetate

Concen: 0.800 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006475.D

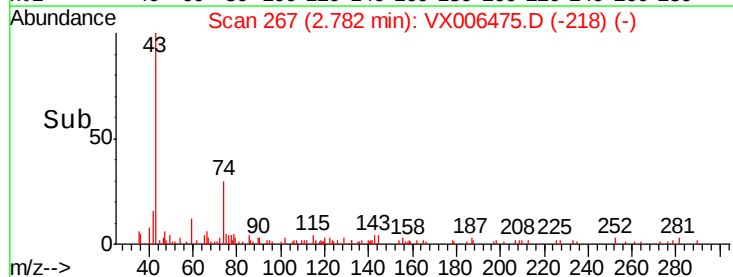
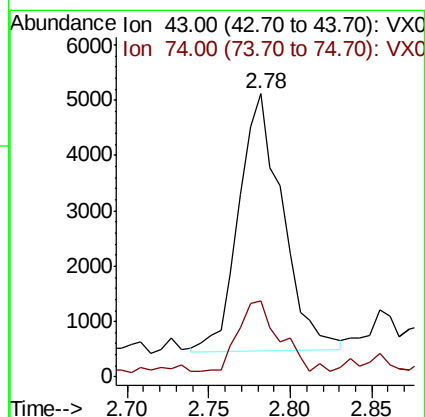
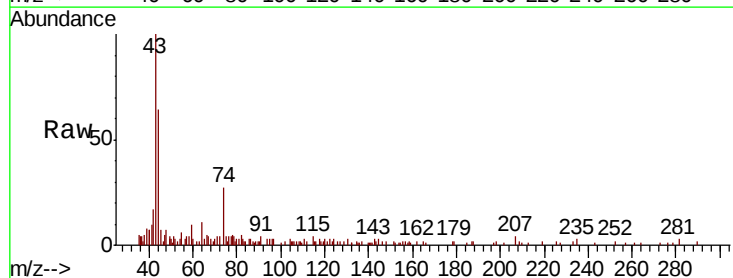
Acq: 13 Dec 2018 05:32

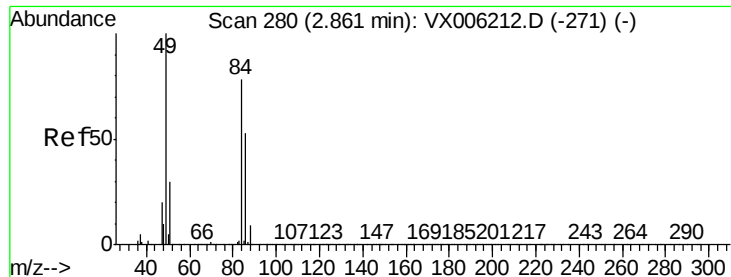
Tgt Ion: 43 Resp: 8612

Ion Ratio Lower Upper

43 100

74 26.0 17.9 26.9

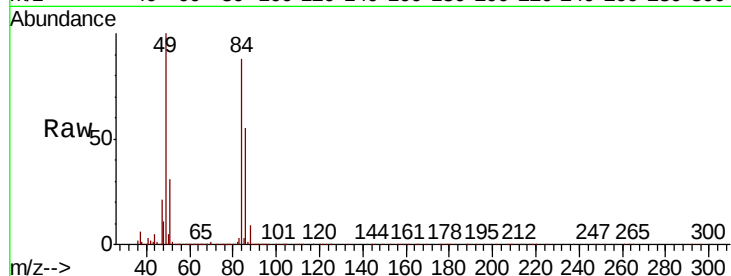




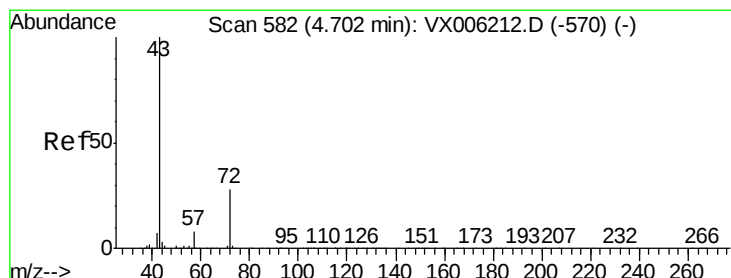
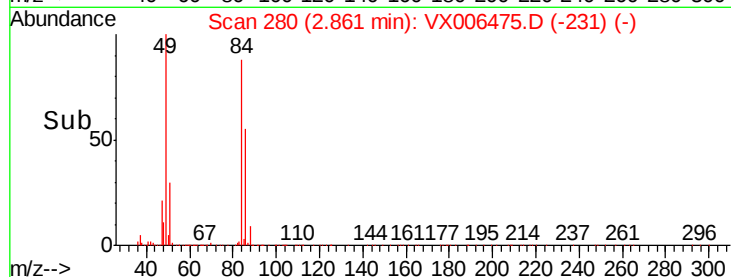
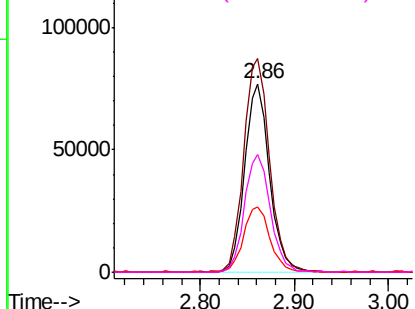
#20
Methvlene Chloride
Concen: 20.747 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Instrument :
MSVOA_X
ClientSampleId :
RBR-200031

Tot Ion: 84 Resp: 142142
Ion Ratio Lower Upper
84 100
49 113.3 102.2 153.4
51 34.5 31.1 46.7
86 62.3 53.7 80.5

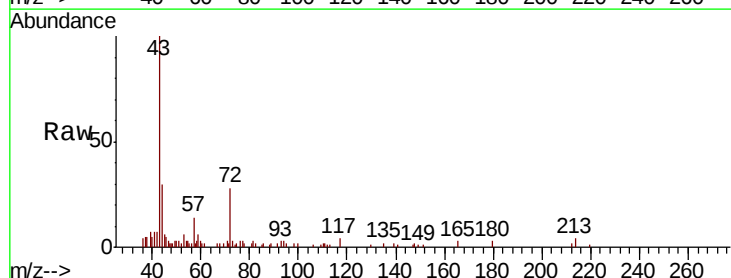


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

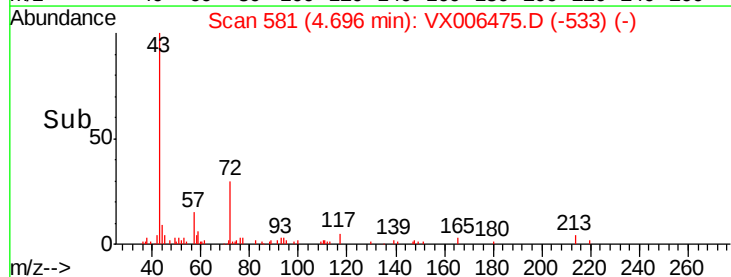
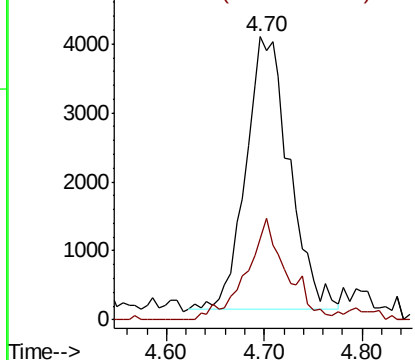


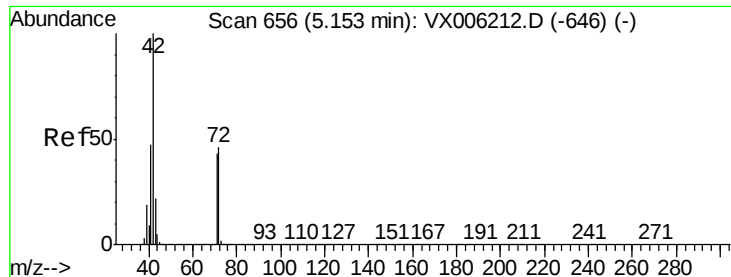
#25
2-Butanone
Concen: 2.638 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Tgt Ion: 43 Resp: 12117
Ion Ratio Lower Upper
43 100
72 29.7 22.6 33.8



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





#29

Tetrahydrofuran

Concen: 0.364 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampled :

RBR-200031

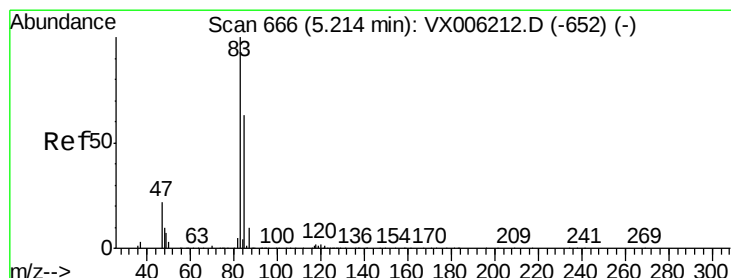
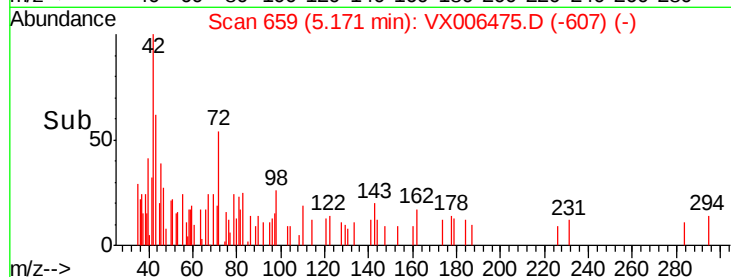
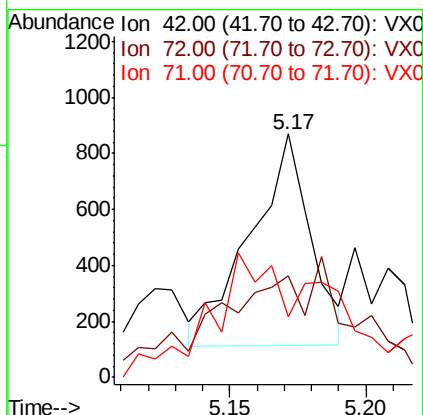
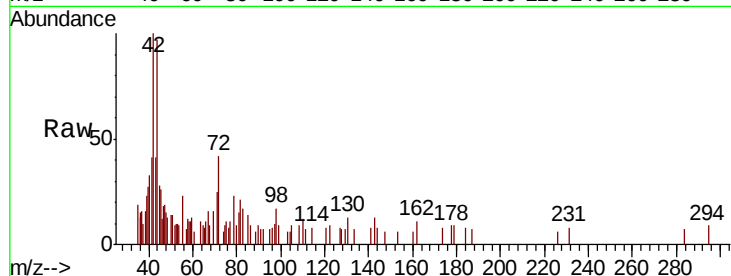
Tot Ion: 42 Resp: 1163

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.8#

71 68.2 35.2 52.8#



#30

Chloroform

Concen: 0.293 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX006475.D

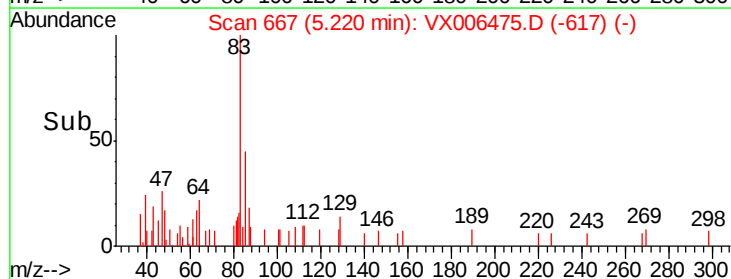
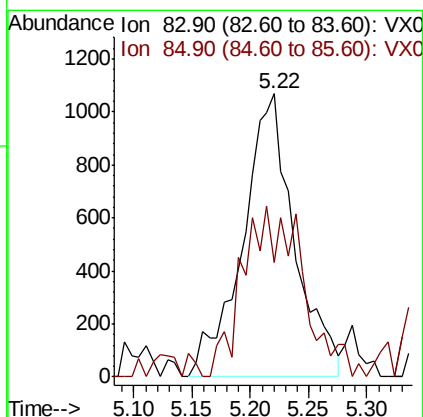
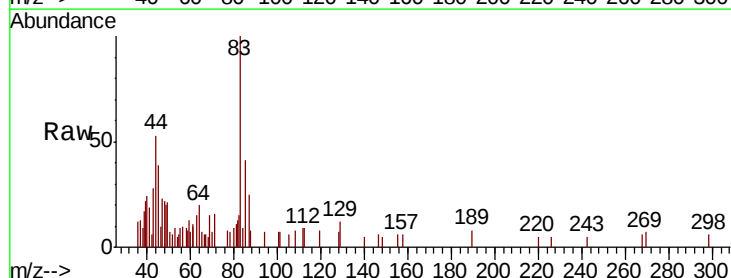
Acq: 13 Dec 2018 05:32

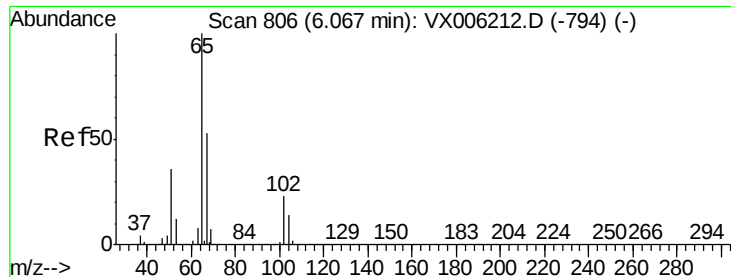
Tgt Ion: 83 Resp: 3303

Ion Ratio Lower Upper

83 100

85 32.4 50.3 75.5#





#33

1,2-Dichloroethane-d4

Concen: 51.247 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

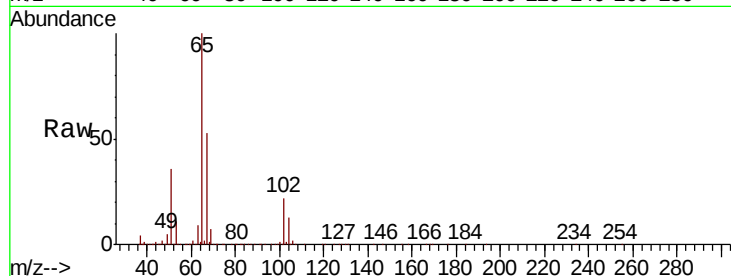
RBR-200031

Tot Ion: 65 Resp: 351539

Ion Ratio Lower Upper

65 100

67 54.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

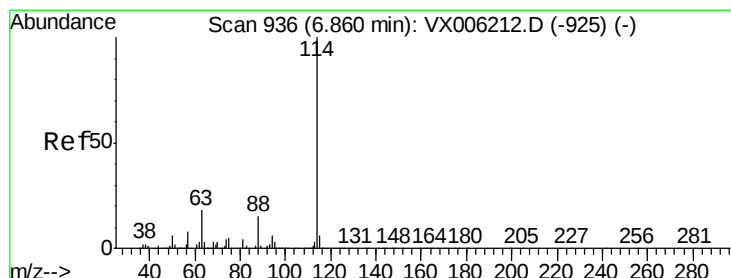
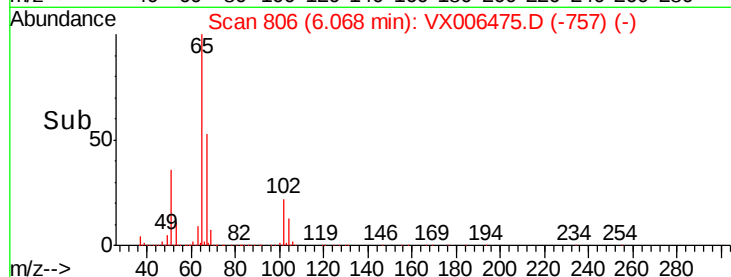
150000

100000

50000

0

Time--> 5.90 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: VX006475.D

Acq: 13 Dec 2018 05:32

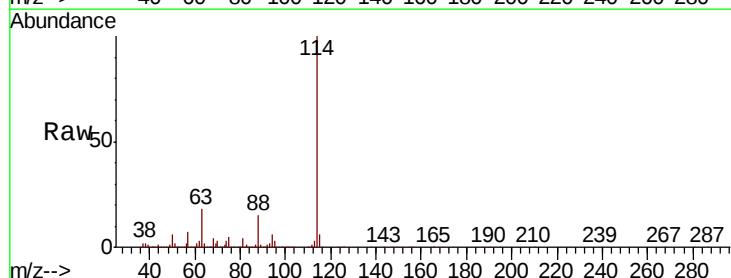
Tgt Ion: 114 Resp: 1038057

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

88 14.8 0.0 29.0



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

600000

500000

400000

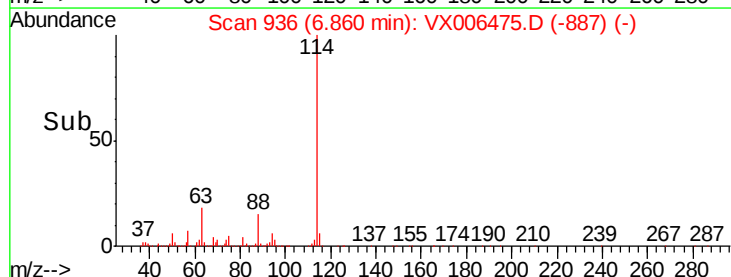
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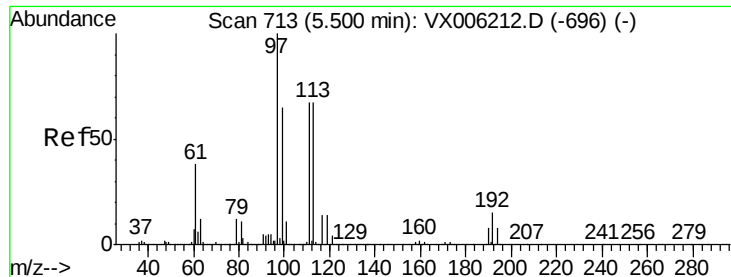
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 43.767 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampled :

RBR-200031

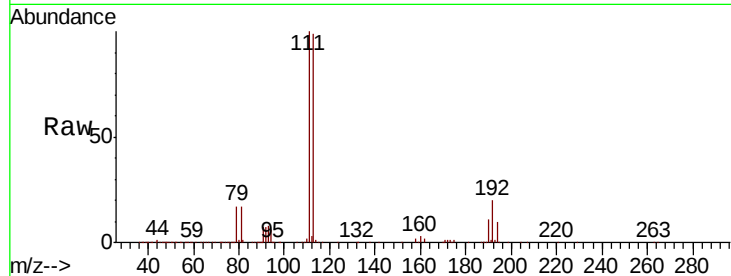
Tot Ion:113 Resp: 294161

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

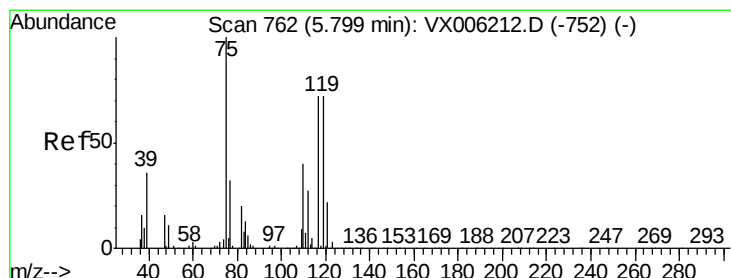
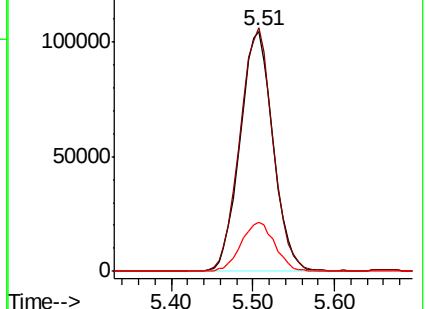
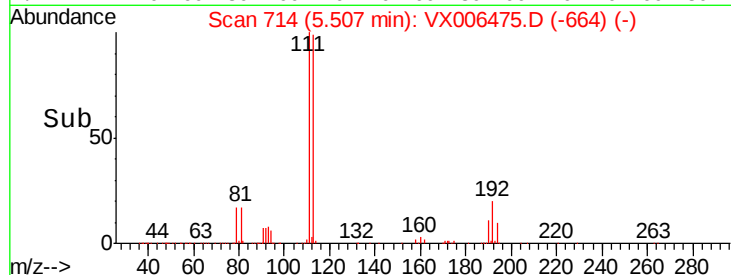
192 20.9 18.2 27.2



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: 5.010 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

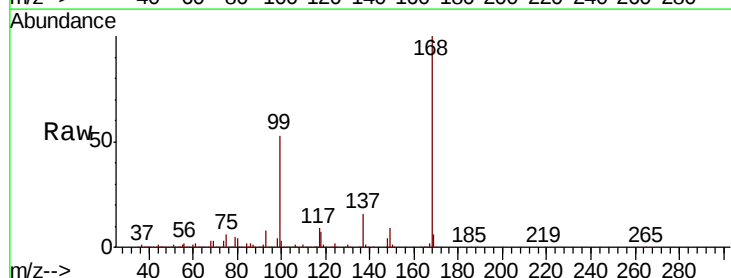
Tgt Ion: 75 Resp: 43795

Ion Ratio Lower Upper

75 100

110 11.3 20.4 61.3#

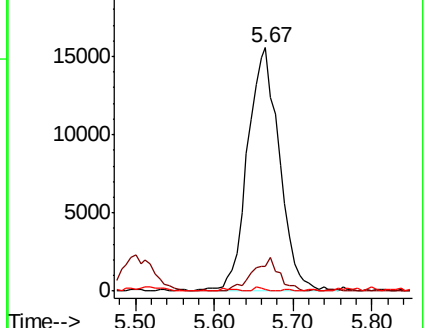
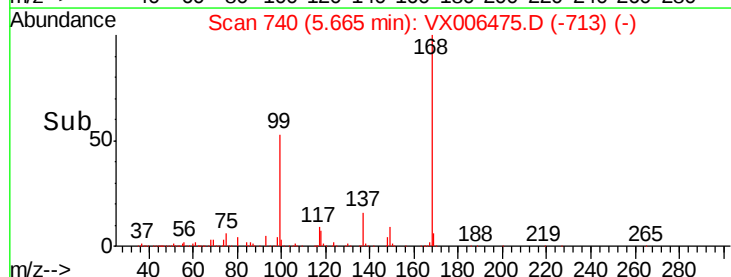
77 0.5 24.9 37.3#

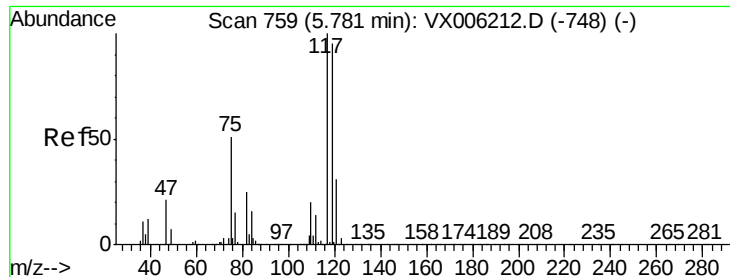


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.174 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

RBR-200031

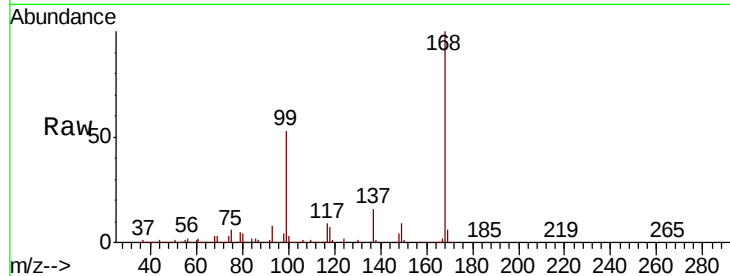
Tot Ion:117 Resp: 63496

Ion Ratio Lower Upper

117 100

119 5.1 75.8 113.8#

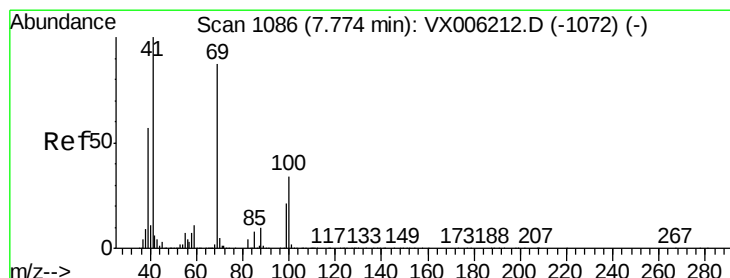
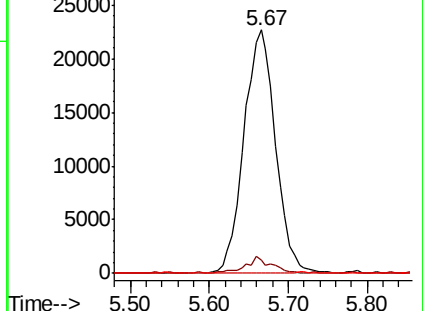
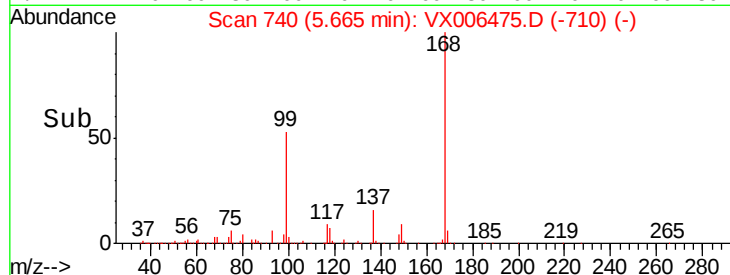
121 0.0 24.6 37.0#



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



#48

Methyl methacrylate

Concen: 2.114 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

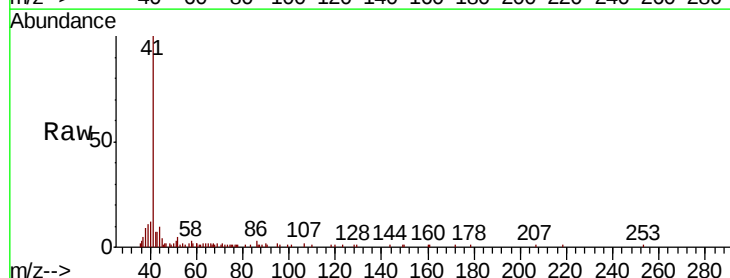
Tgt Ion: 41 Resp: 16788

Ion Ratio Lower Upper

41 100

69 1.8 70.3 105.5#

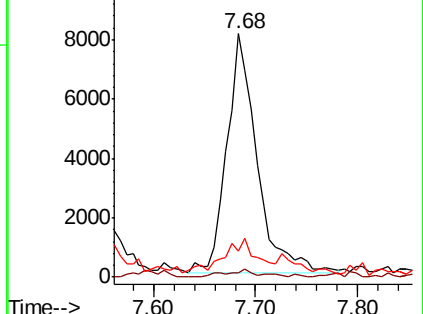
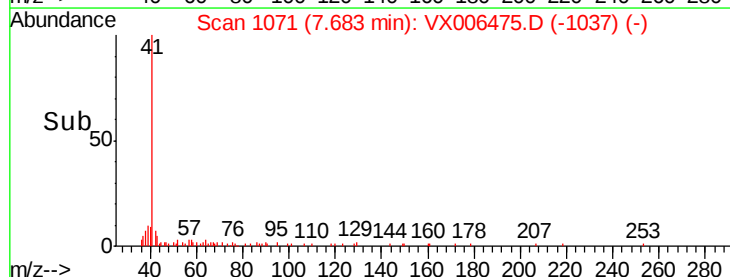
39 15.1 45.3 67.9#

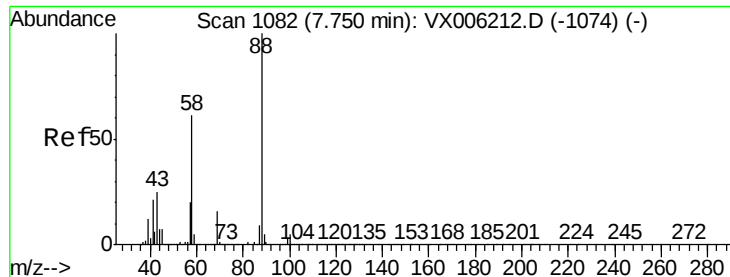


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.450 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampled :

RBR-200031

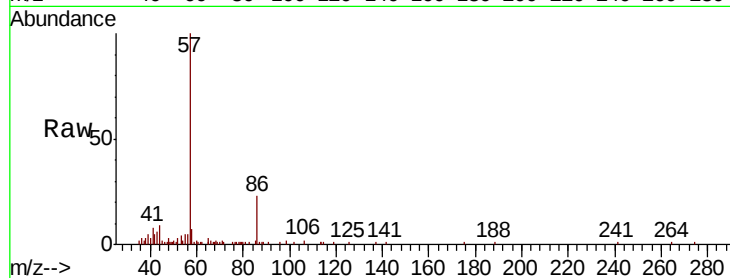
Tot Ion: 88 Resp: 88

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

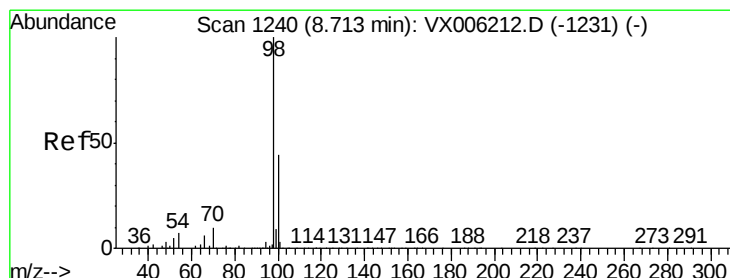
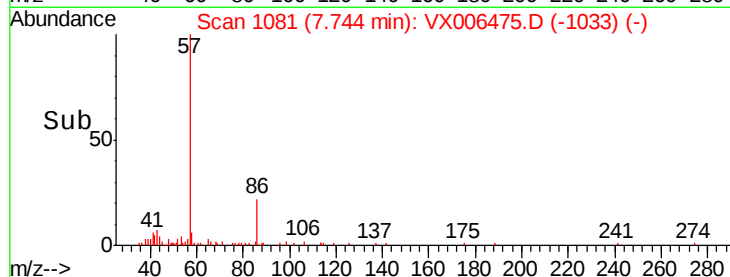
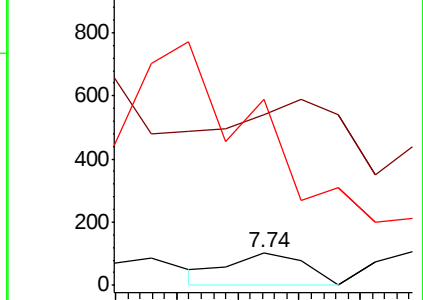
58 0.0 51.4 77.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.262 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006475.D

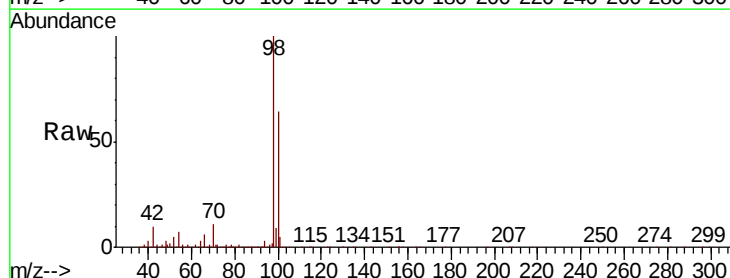
Acq: 13 Dec 2018 05:32

Tgt Ion: 98 Resp: 1228765

Ion Ratio Lower Upper

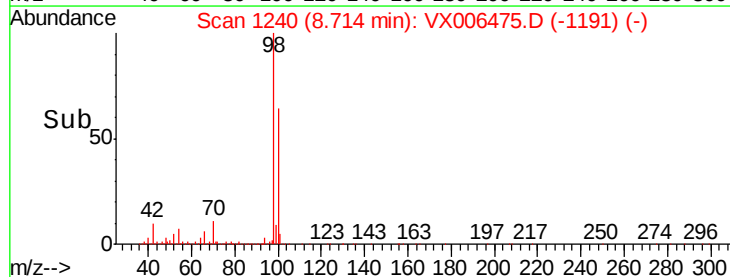
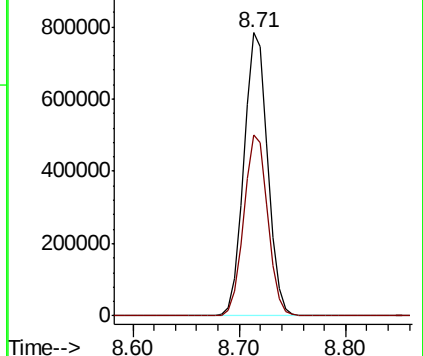
98 100

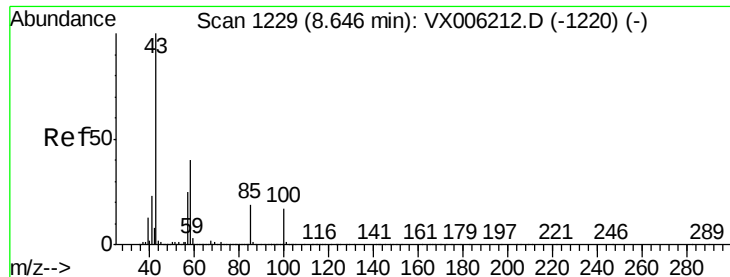
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.929 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

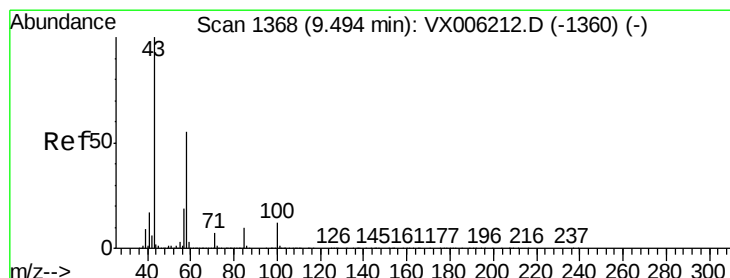
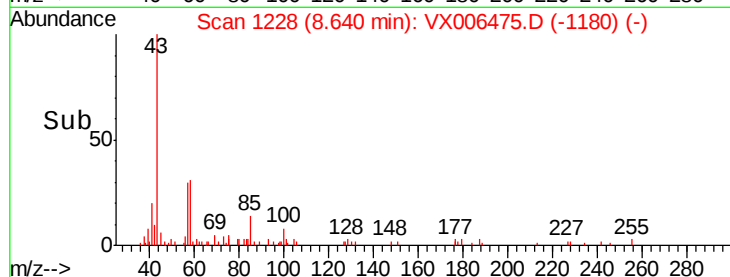
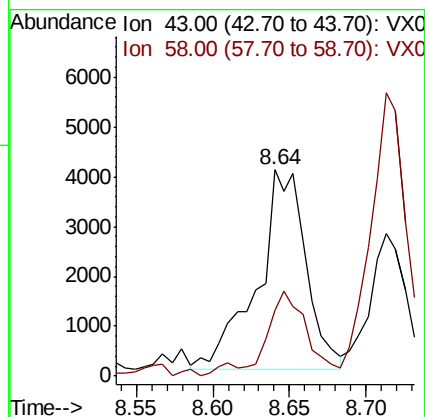
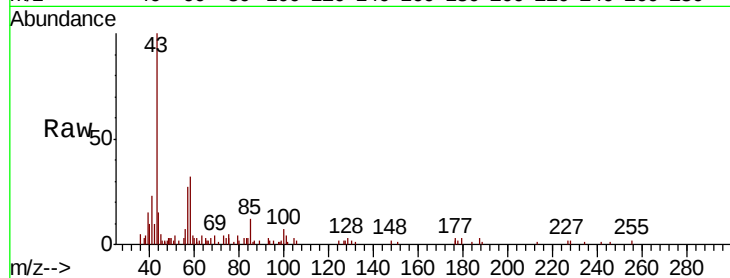
RBR-200031

Tot Ion: 43 Resp: 8828

Ion Ratio Lower Upper

43 100

58 33.8 31.3 46.9



#59

2-Hexanone

Concen: 0.714 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX006475.D

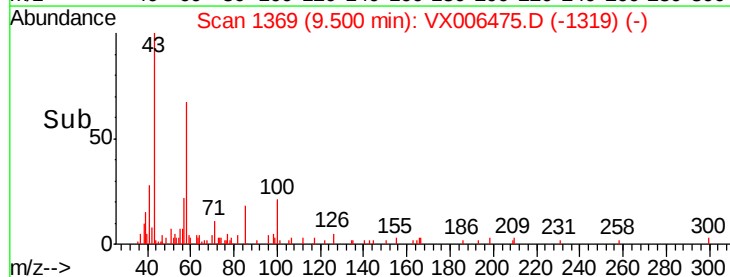
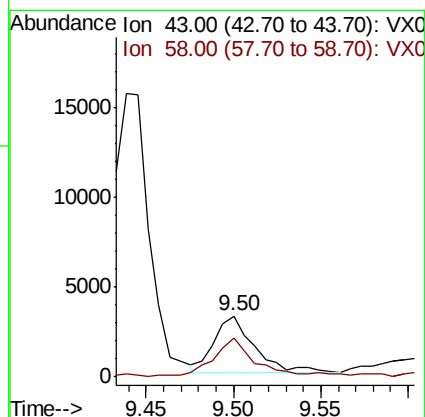
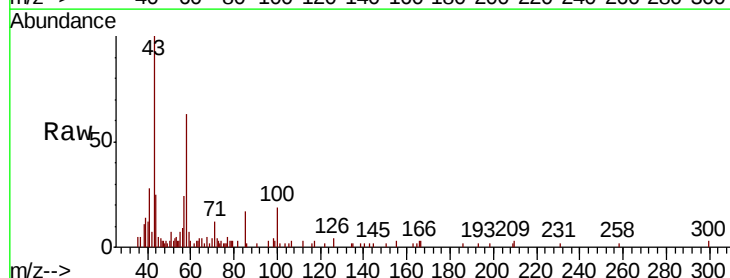
Acq: 13 Dec 2018 05:32

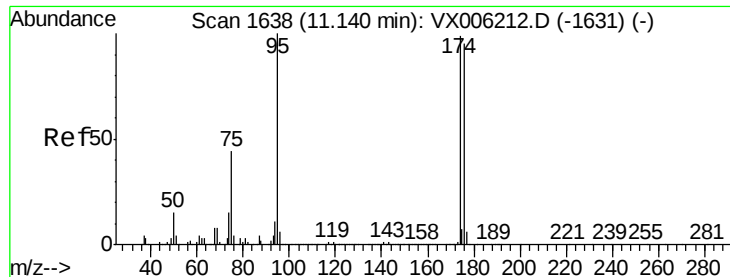
Tgt Ion: 43 Resp: 5181

Ion Ratio Lower Upper

43 100

58 60.6 27.7 83.1

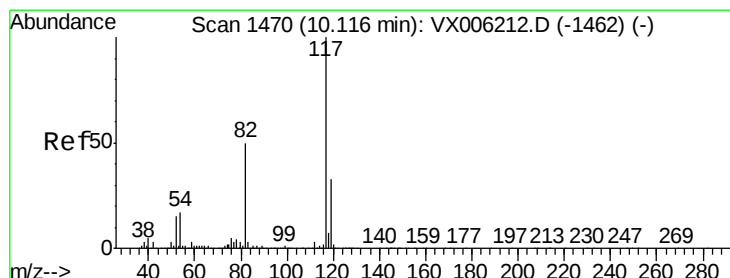
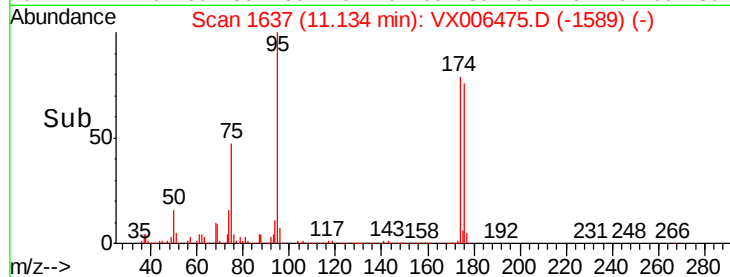
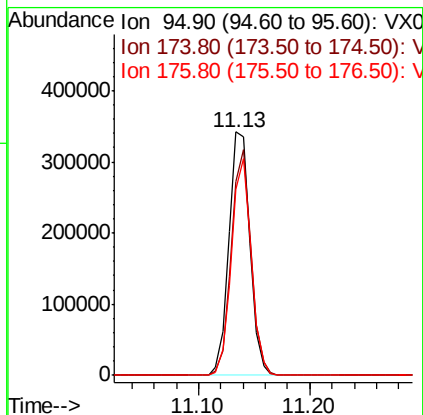
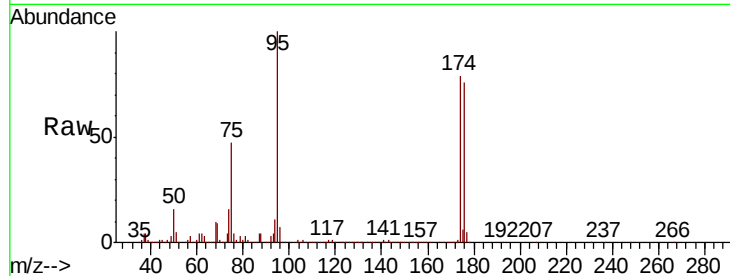




#62
4-Bromofluorobenzene
Concen: 48.465 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.01 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

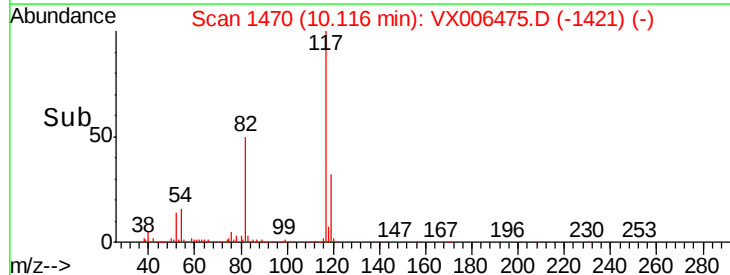
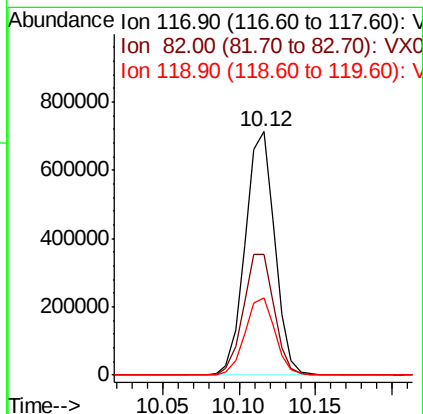
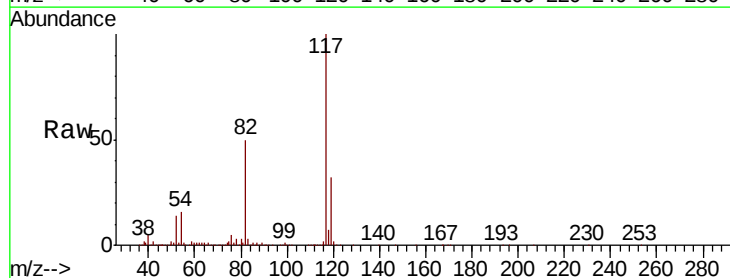
Instrument :
MSVOA_X
ClientSampleId :
RBR-200031

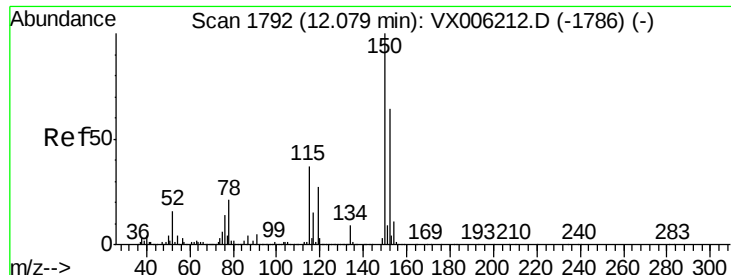
Tot Ion: 95 Resp: 446479
Ion Ratio Lower Upper
95 100
174 87.1 0.0 187.0
176 83.8 0.0 181.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Tgt Ion: 117 Resp: 956765
Ion Ratio Lower Upper
117 100
82 49.6 39.6 59.4
119 31.9 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

RBR-200031

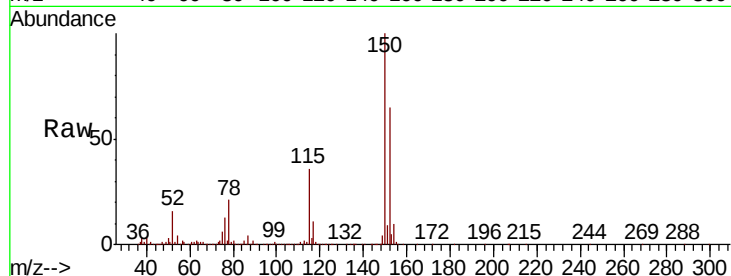
Tot Ion:152 Resp: 462398

Ion Ratio Lower Upper

152 100

115 56.5 39.0 116.9

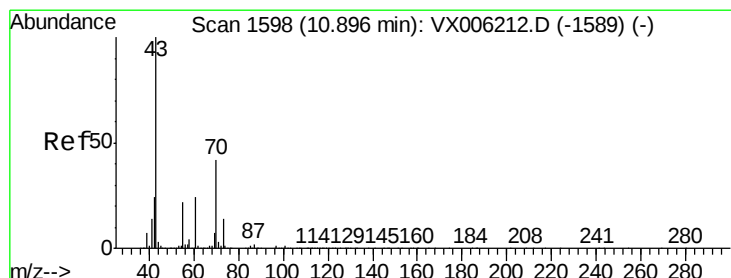
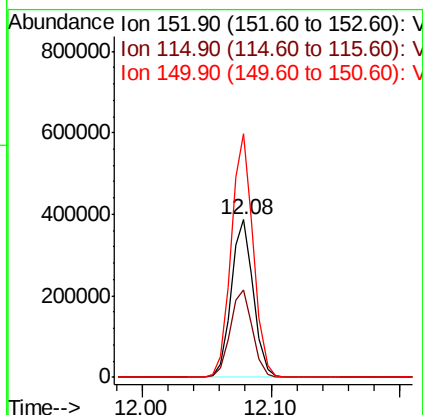
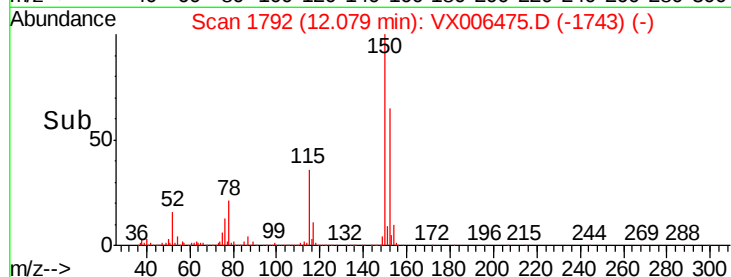
150 154.1 0.0 345.8



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



#74

N-ethyl acetate

Concen: 0.444 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX006475.D

Acq: 13 Dec 2018 05:32

Tgt Ion: 43 Resp: 6107

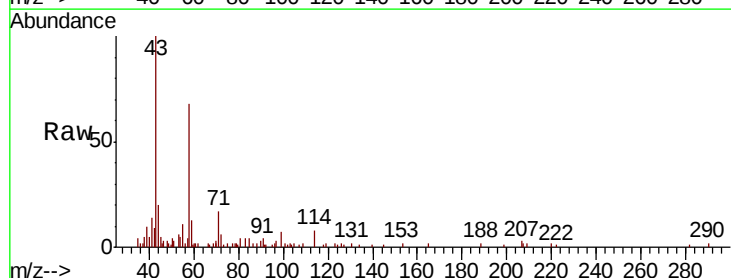
Ion Ratio Lower Upper

43 100

70 2.8 34.1 51.1#

55 11.5 17.8 26.8#

61 0.0 19.7 29.5#

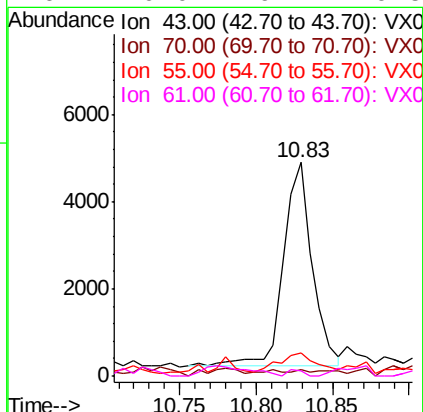
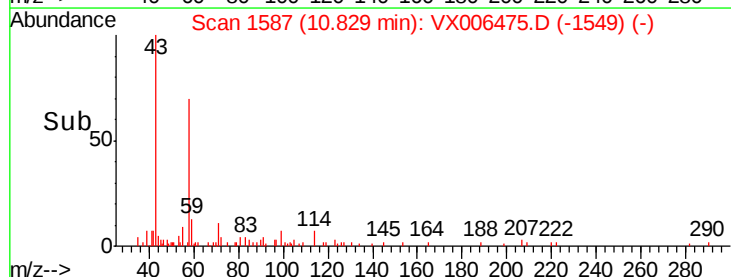


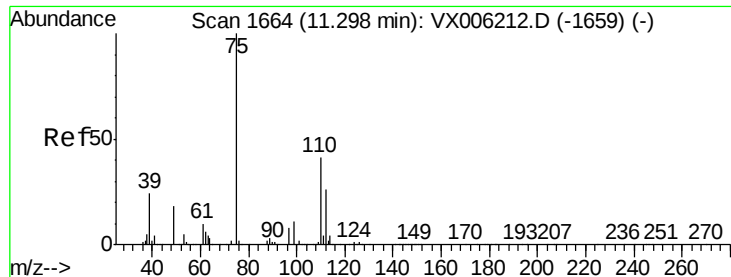
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

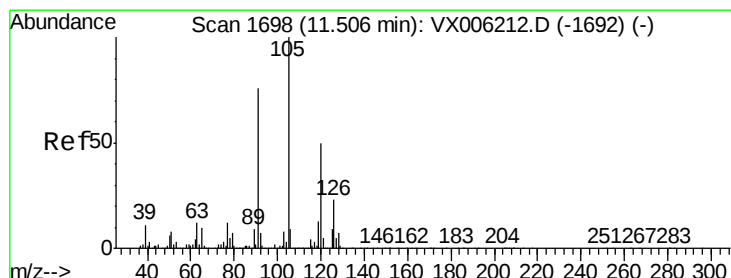
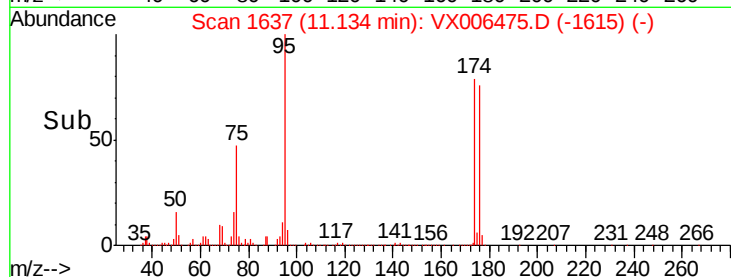
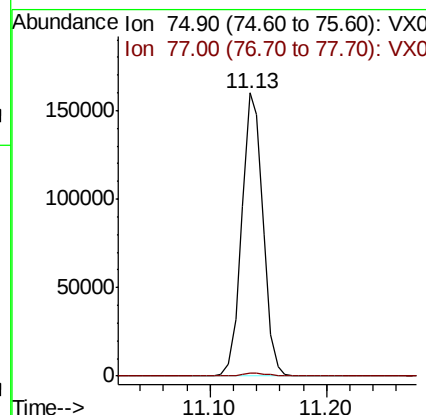
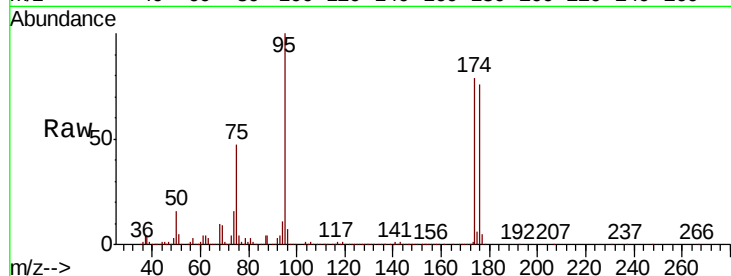




#76
 1,2,3-Trichloropropane
 Concen: 22.773 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006475.D
 Acq: 13 Dec 2018 05:32

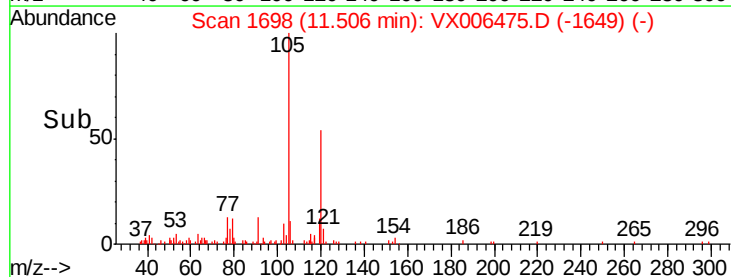
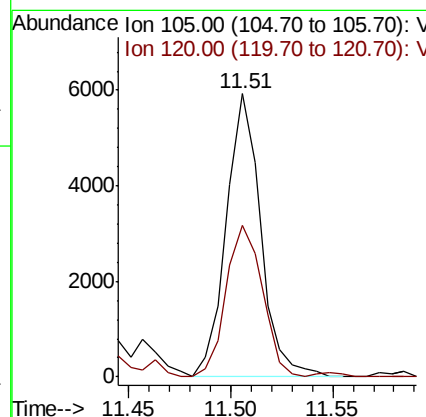
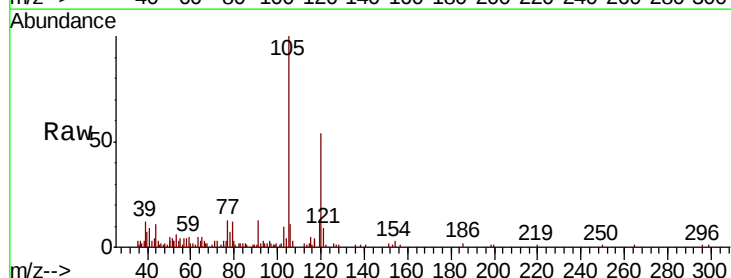
Instrument :
 MSVOA_X
 ClientSampleId :
 RBR-200031

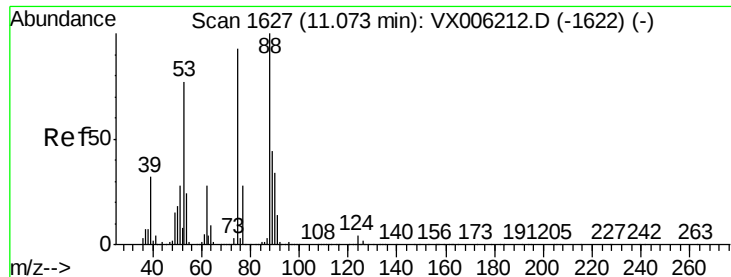
Tot Ion: 75 Resp: 203246
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.9 59.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.260 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006475.D
 Acq: 13 Dec 2018 05:32

Tgt Ion:105 Resp: 6919
 Ion Ratio Lower Upper
 105 100
 120 56.4 25.4 76.0

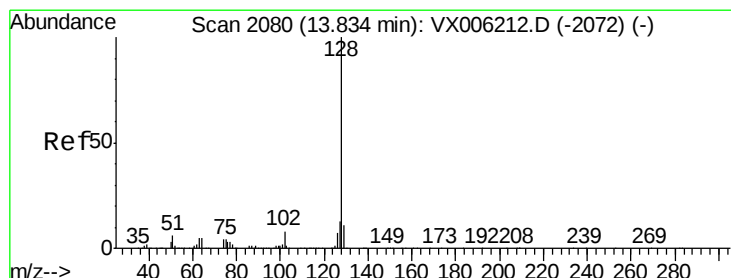
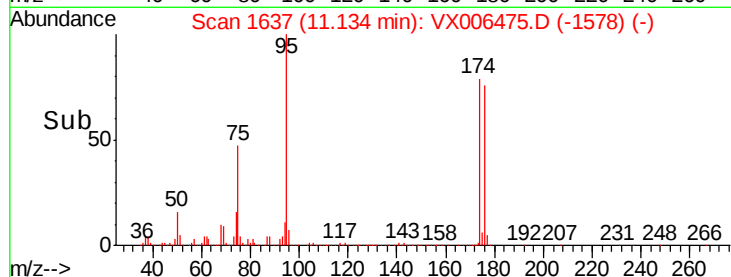
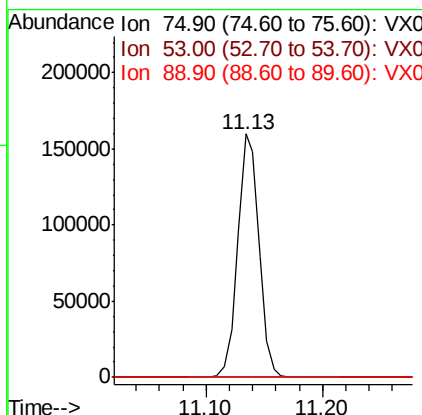
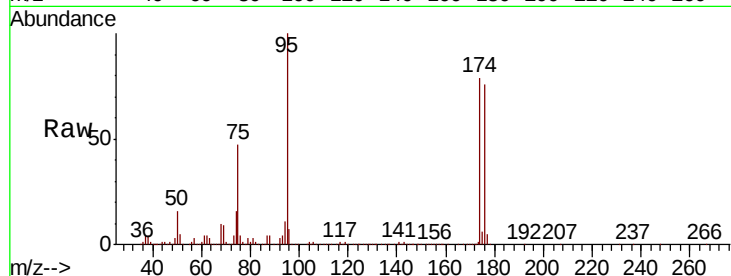




#81
trans-1,4-Dichloro-2-butene
Concen: 53.441 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Instrument :
MSVOA_X
ClientSampleId :
RBR-200031

Tot Ion: 75 Resp: 203246
Ion Ratio Lower Upper
75 100
53 0.1 64.4 96.6#
89 0.0 44.2 66.4#



#95
Naphthalene
Concen: 0.336 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006475.D
Acq: 13 Dec 2018 05:32

Tgt Ion:128 Resp: 11941
Ion Ratio Lower Upper
128 100
127 15.9 10.2 15.4#
129 13.3 8.9 13.3

