

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020819\
 Data File : VW008574.D
 Acq On : 08 Feb 2019 15:15
 Operator : SY/VA
 Sample : K1401-03RE
 Misc : 5.58G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200028

Quant Time: Feb 09 00:26:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	468969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	775622	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	692190	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	308206	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	276871	60.10	ug/l	0.00
Spiked Amount			Recovery	=	120.20%	
35) Dibromofluoromethane	7.88	113	242852	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
50) Toluene-d8	10.32	98	947847	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	12.62	95	337227	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

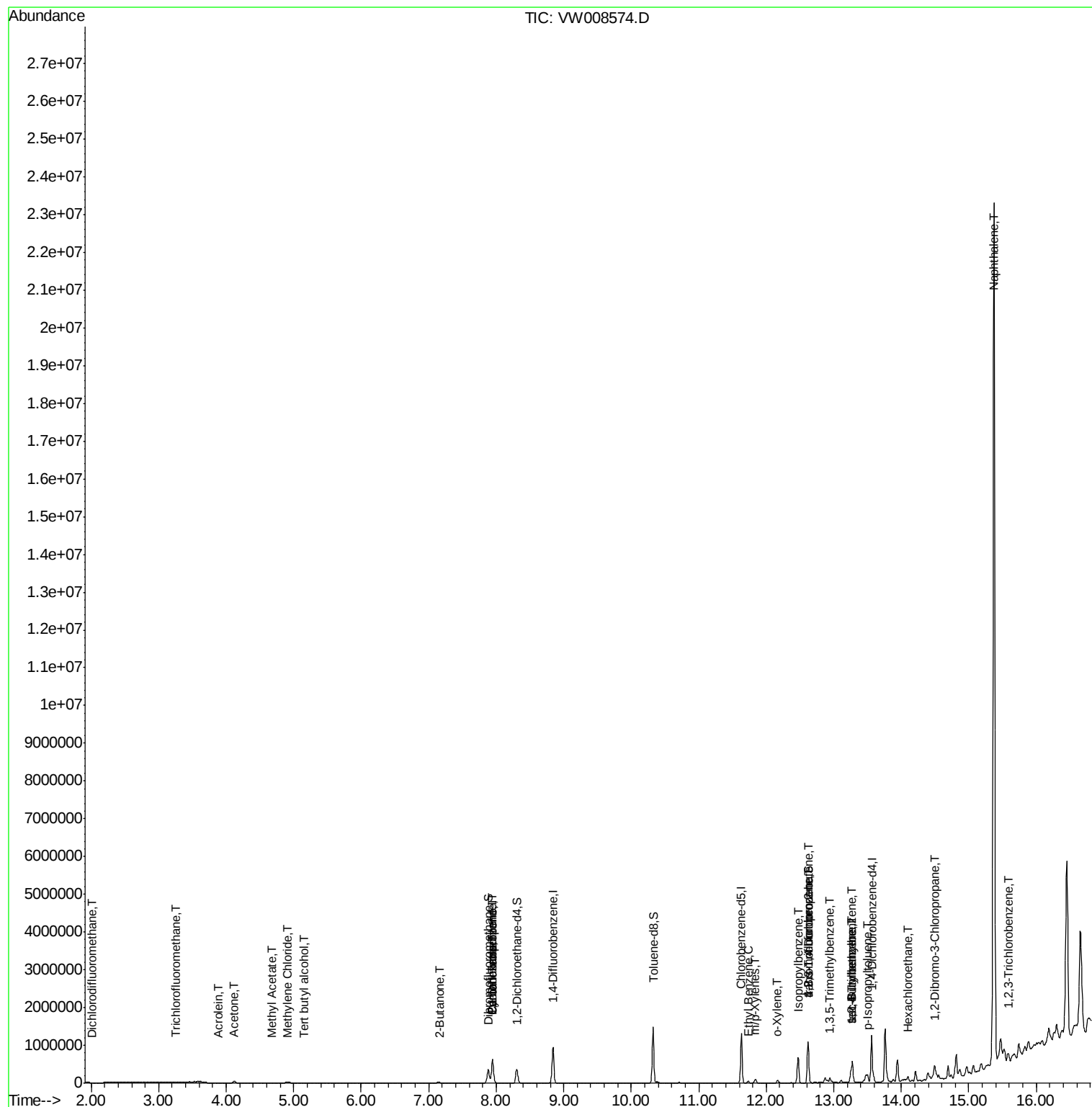
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	117	3.293	ug/l #	41
7) Trichlorofluoromethane	3.26	101	85	4.743	ug/l	99
11) Tert butyl alcohol	5.15	59	2191	5.907	ug/l #	83
13) Acrolein	3.87	56	385	5.342	ug/l #	14
16) Acetone	4.12	43	58350	56.398	ug/l	98
18) Methyl Acetate	4.68	43	3525	1.277	ug/l	94
20) Methylene Chloride	4.90	84	18222	3.821	ug/l #	82
25) 2-Butanone	7.17	43	5366	3.734	ug/l #	76
31) Cyclohexane	7.95	56	11783	1.303	ug/l #	12
36) 1,1-Dichloropropene	7.95	75	37330	5.095	ug/l #	51
38) Carbon Tetrachloride	7.94	117	46287	6.278	ug/l #	16
67) Ethyl Benzene	11.73	91	36347	1.399	ug/l	100
68) m/p-Xylenes	11.84	106	25354	2.516	ug/l	99
69) o-Xylene	12.16	106	14915	1.558	ug/l	93
73) Isopropylbenzene	12.47	105	145614	6.337	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	178055	66.447	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	55608	2.895	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	178055	131.239	ug/l #	12
83) tert-Butylbenzene	13.26	119	27515	1.610	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.26	105	173187	8.872	ug/l	92
85) sec-Butylbenzene	13.26	105	173187	7.096	ug/l #	57
86) p-Isopropyltoluene	13.50	119	106419	4.978	ug/l	96
90) Hexachloroethane	14.10	117	6277	1.501	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.50	75	9866	14.294	ug/l #	1
95) Naphthalene	15.37	128	17516761	1559.017	ug/l	94
96) 1,2,3-Trichlorobenzene	15.58	180	12472	2.298	ug/l #	20

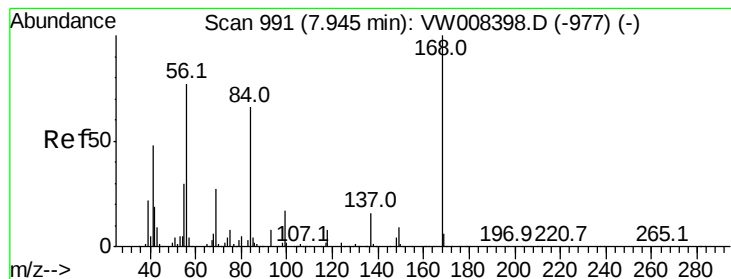
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampleId :

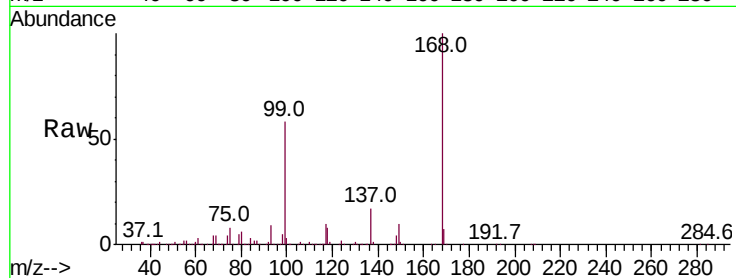
RBR-200028

Tot Ion:168 Resp: 468969

Ion Ratio Lower Upper

168 100

99 57.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

150000

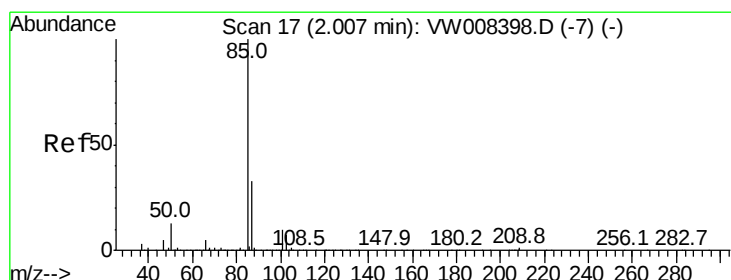
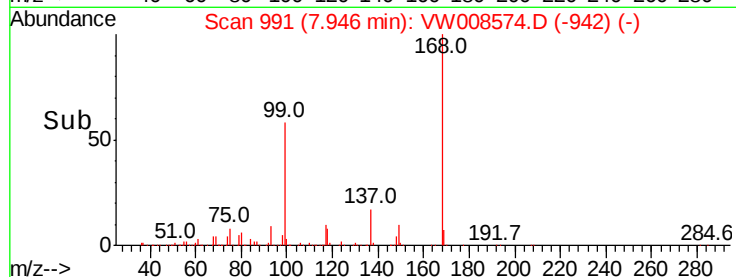
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 3.293 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW008574.D

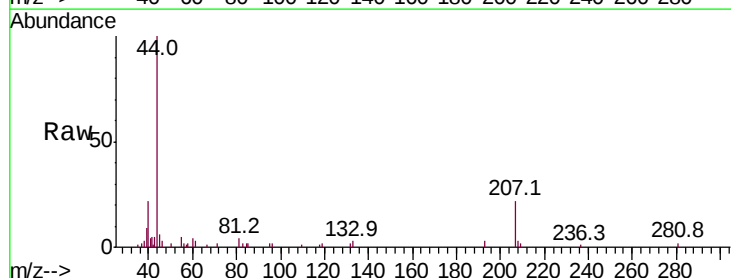
Acq: 08 Feb 2019 15:15

Tgt Ion: 85 Resp: 117

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

200

150

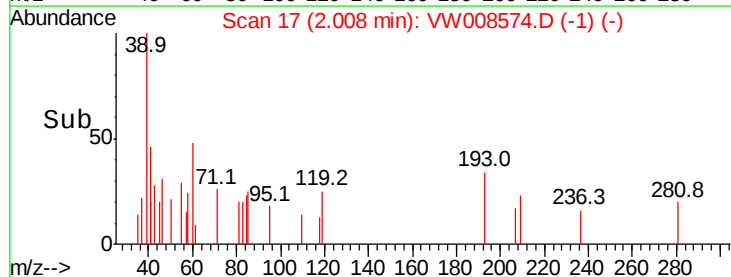
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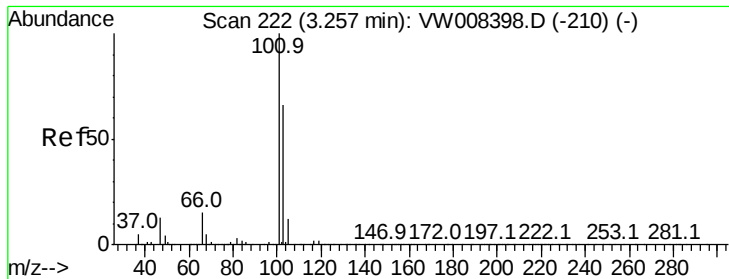
50

0

1.98 2.00 2.02

Time-->



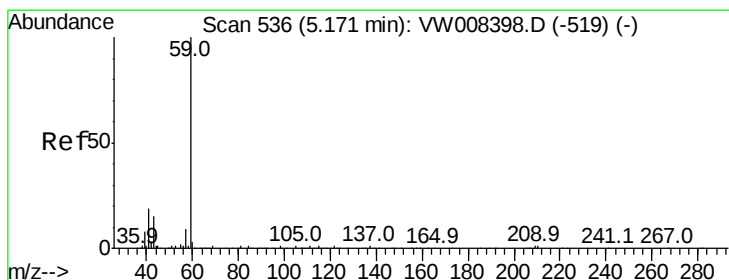
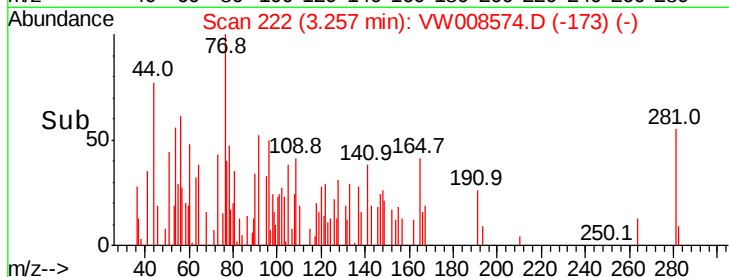
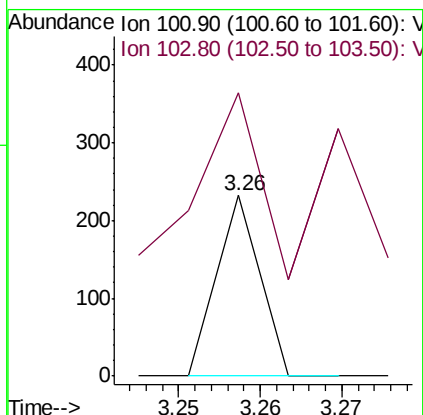
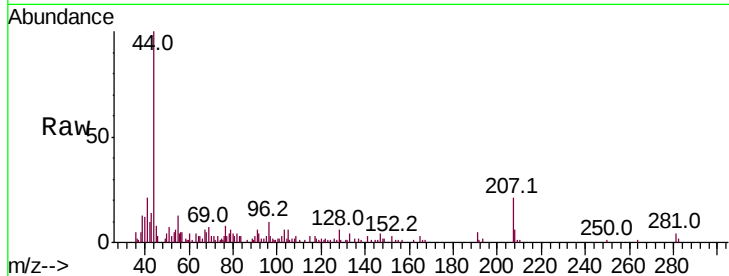


#7

Trichlorofluoromethane
Concen: 4.743 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Instrument :
MSVOA_W
ClientSampled :
RBR-200028

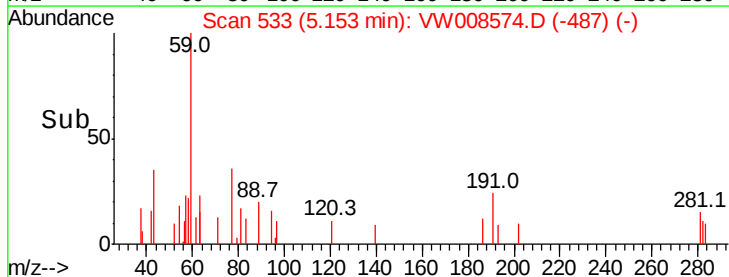
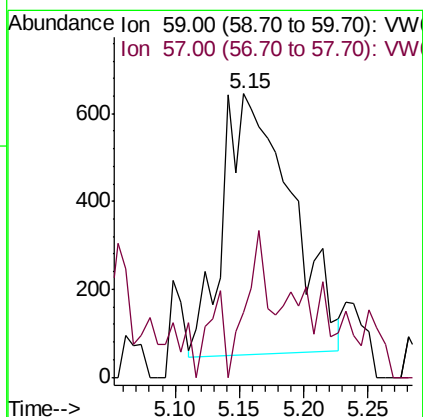
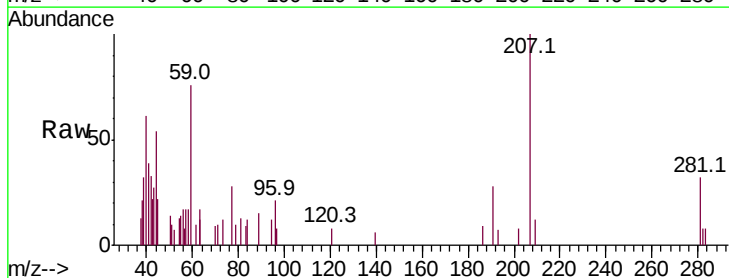
Tot Ion:101 Resp: 85
Ion Ratio Lower Upper
101 100
103 65.1 52.5 78.7

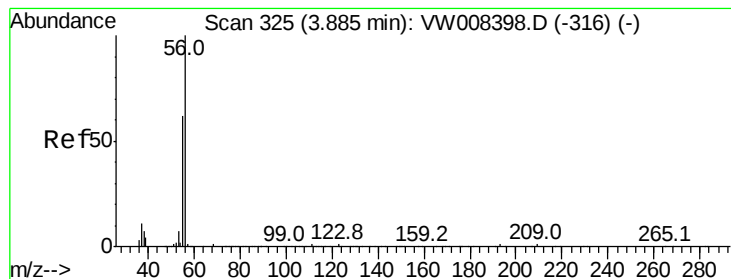


#11

Tert butyl alcohol
Concen: 5.907 ug/l
RT: 5.15 min Scan# 533
Delta R.T. -0.02 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion: 59 Resp: 2191
Ion Ratio Lower Upper
59 100
57 18.1 9.3 13.9#





#13

Acrolein

Concen: 5.342 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.01 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

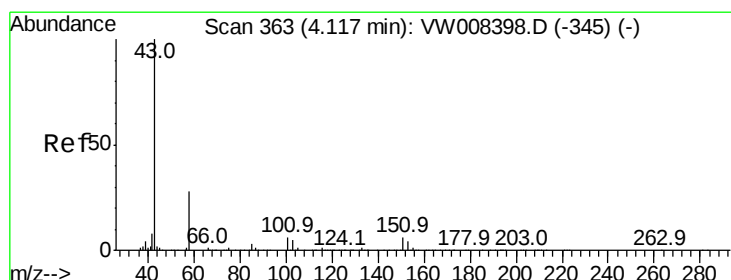
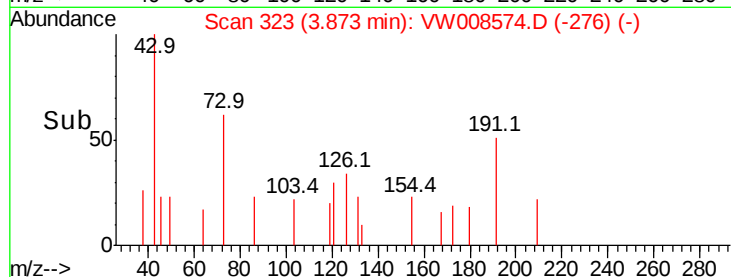
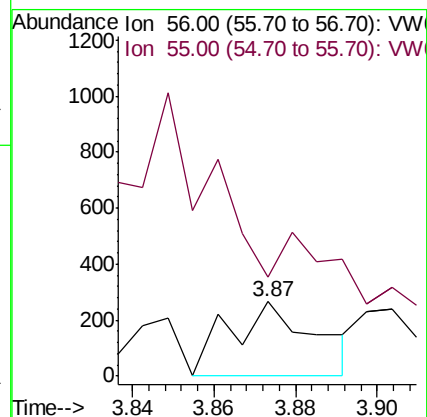
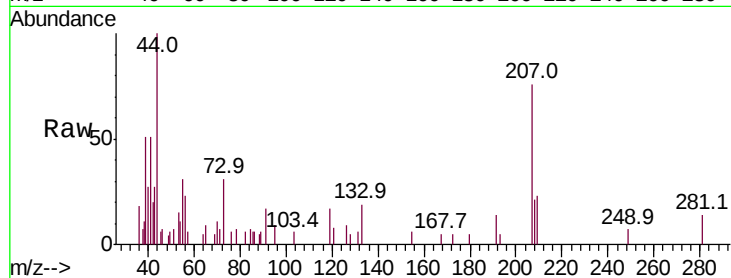
RBR-200028

Tot Ion: 56 Resp: 385

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 56.398 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008574.D

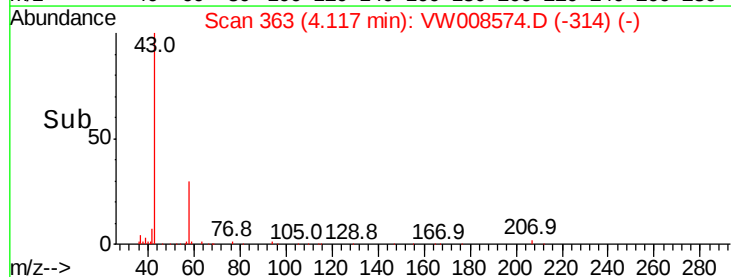
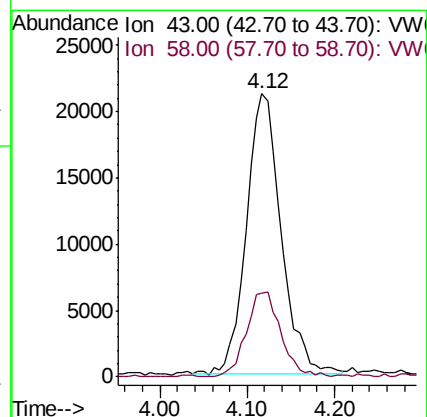
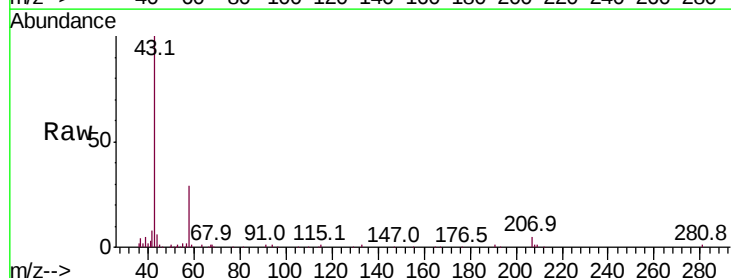
Acq: 08 Feb 2019 15:15

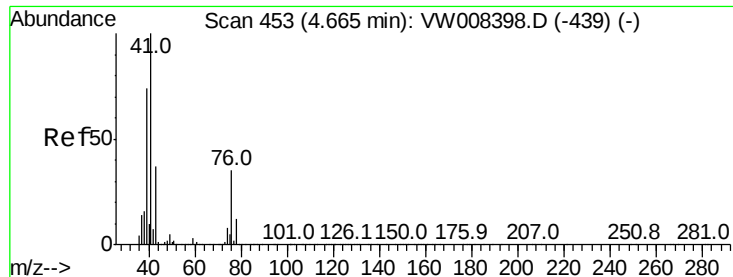
Tgt Ion: 43 Resp: 58350

Ion Ratio Lower Upper

43 100

58 29.3 22.6 34.0

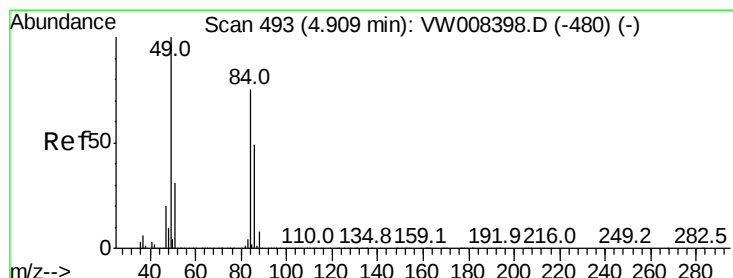
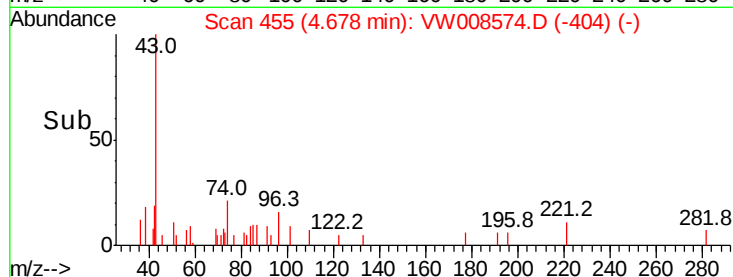
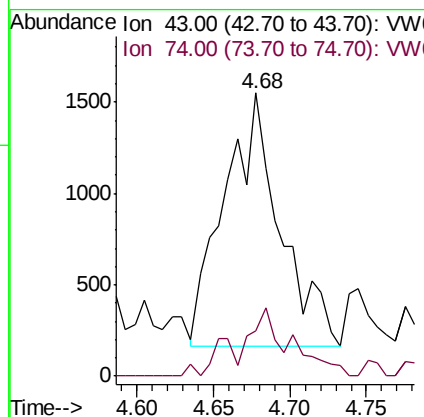
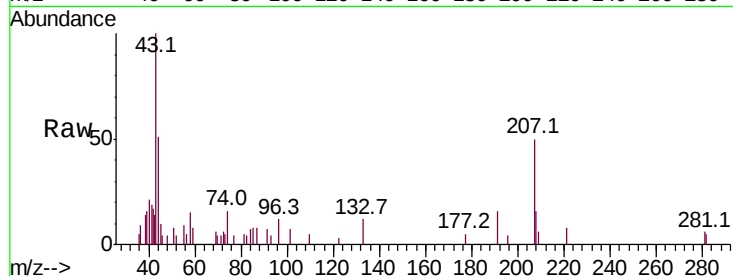




#18
Methyl Acetate
Concen: 1.277 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

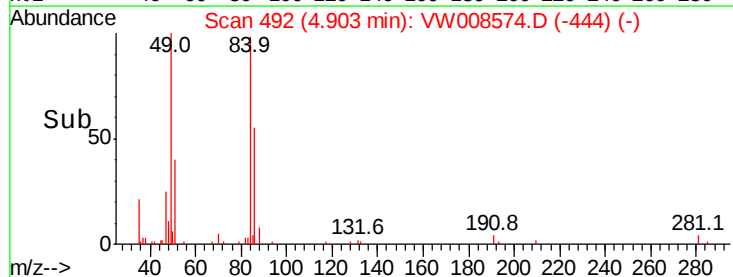
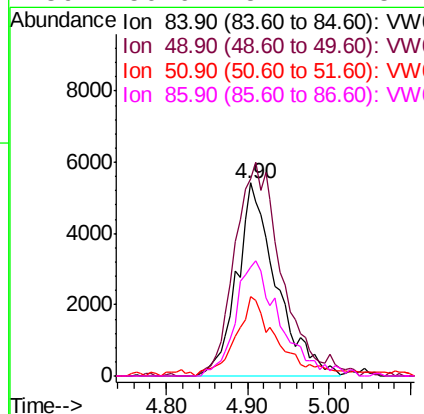
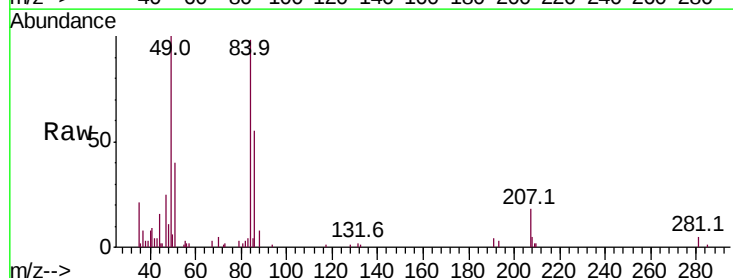
Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

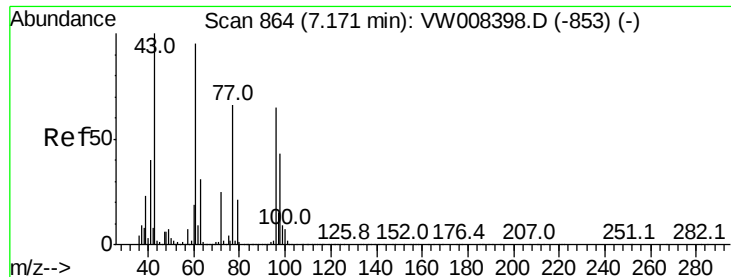
Tot Ion: 43 Resp: 3525
Ion Ratio Lower Upper
43 100
74 19.0 17.5 26.3



#20
Methylene Chloride
Concen: 3.821 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion: 84 Resp: 18222
Ion Ratio Lower Upper
84 100
49 102.5 106.8 160.2#
51 39.2 32.9 49.3
86 56.6 52.2 78.2

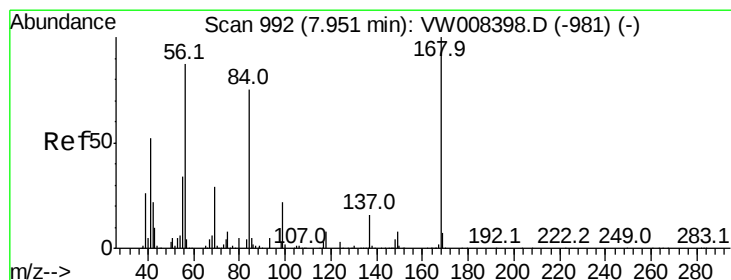
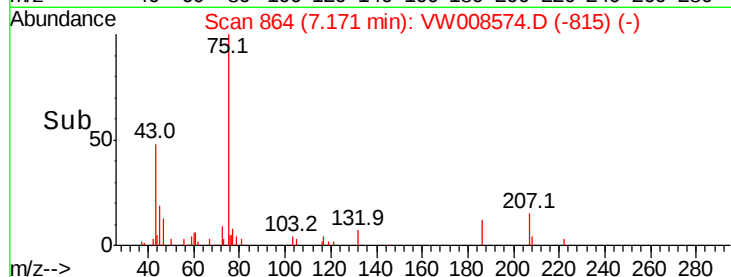
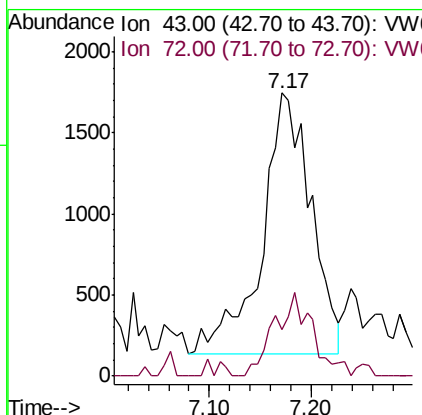
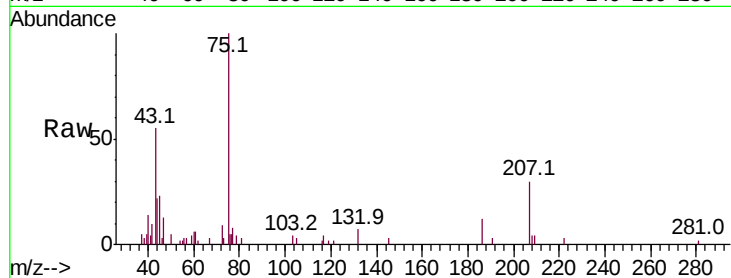




#25
2-Butanone
Concen: 3.734 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

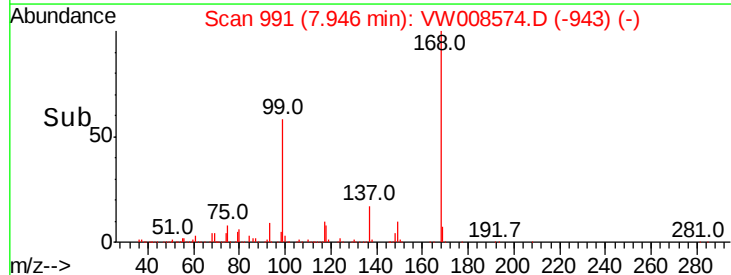
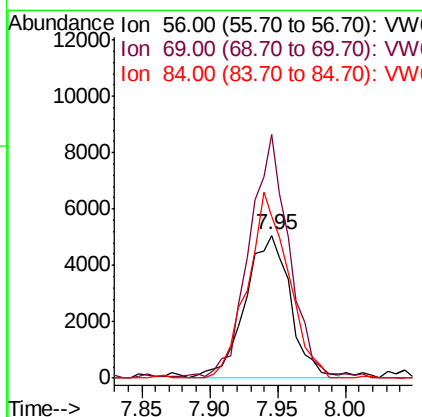
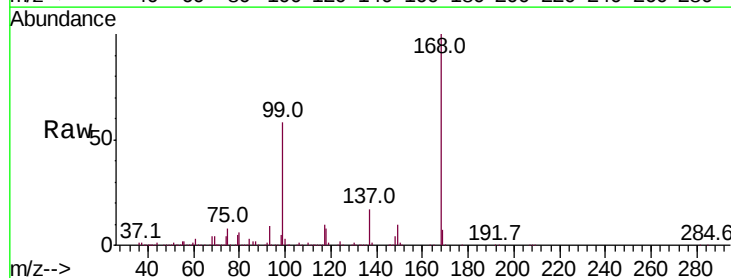
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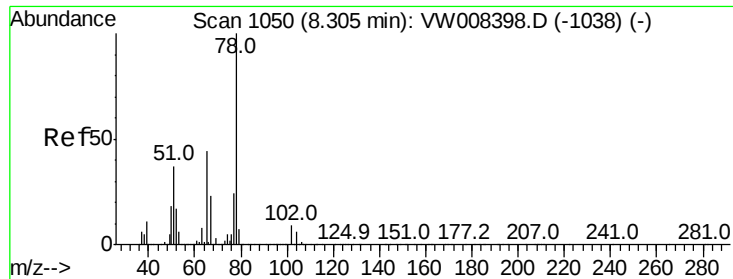
Tot Ion: 43 Resp: 5366
Ion Ratio Lower Upper
43 100
72 13.2 20.1 30.1#



#31
Cyclohexane
Concen: 1.303 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion: 56 Resp: 11783
Ion Ratio Lower Upper
56 100
69 168.3 26.4 39.6#
84 113.5 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 60.095 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

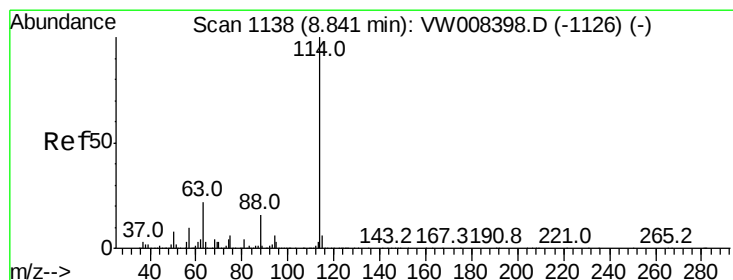
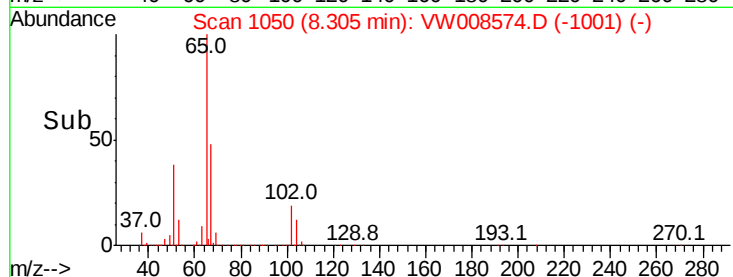
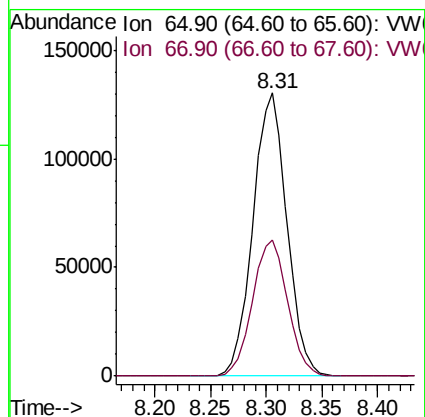
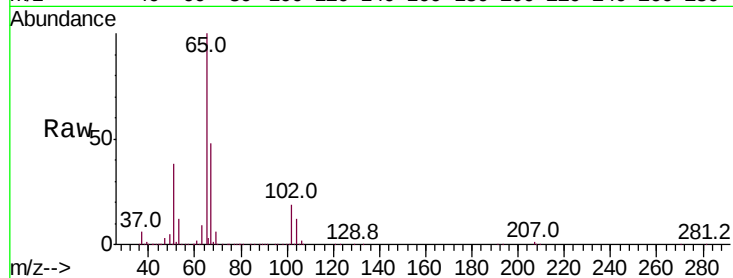
RBR-200028

Tot Ion: 65 Resp: 276871

Ion Ratio Lower Upper

65 100

67 50.0 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

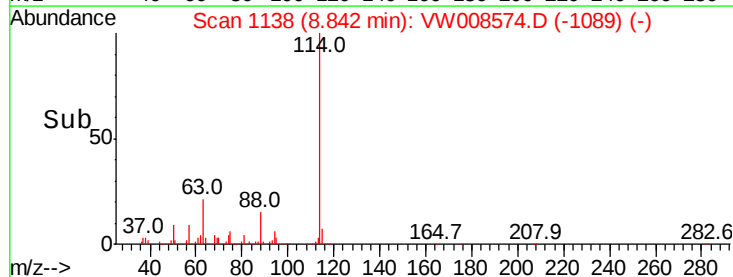
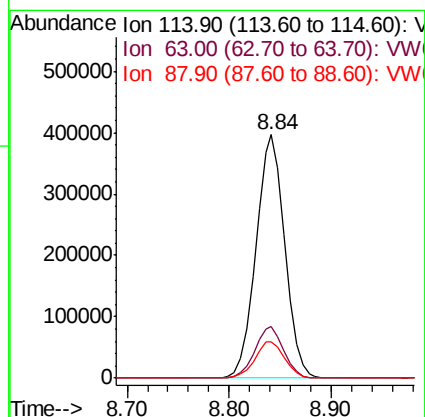
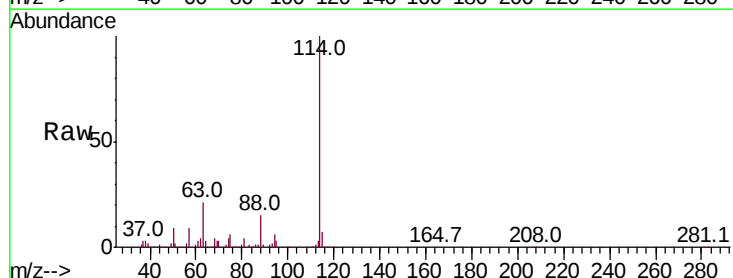
Tgt Ion: 114 Resp: 775622

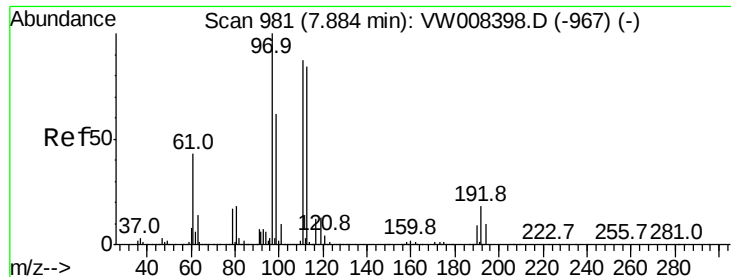
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.6

88 14.8 0.0 31.8

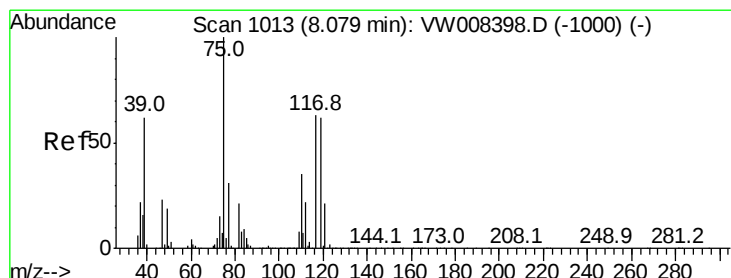
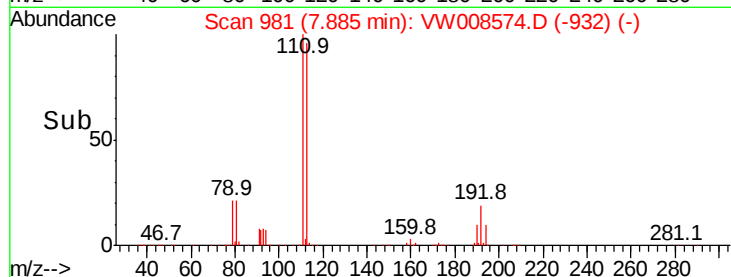
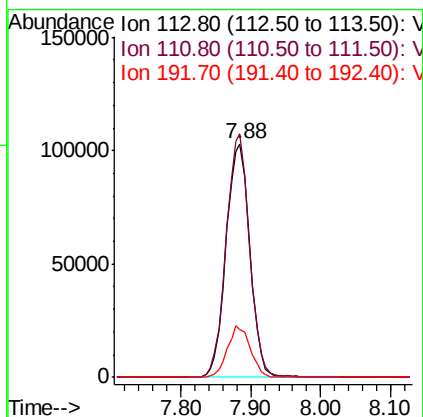
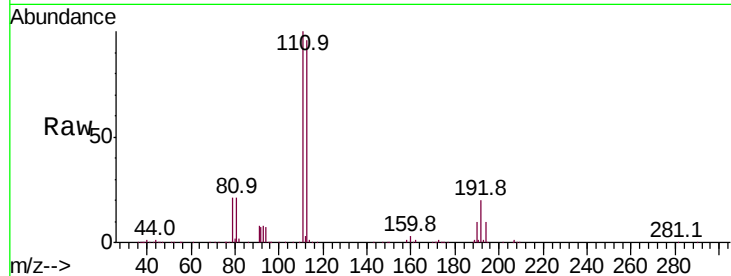




#35
 Dibromofluoromethane
 Concen: 53.547 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008574.D
 Acq: 08 Feb 2019 15:15

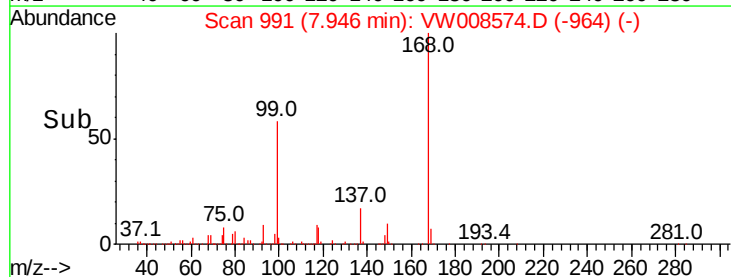
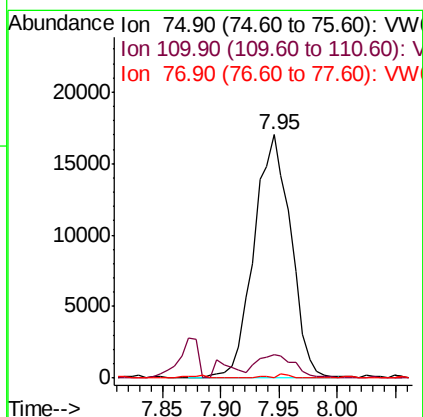
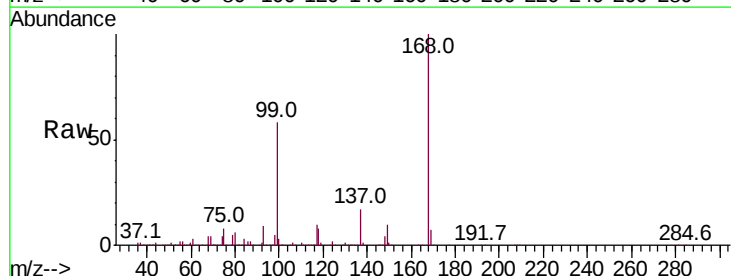
Instrument :
 MSVOA_W
 ClientSampleId :
 RBR-200028

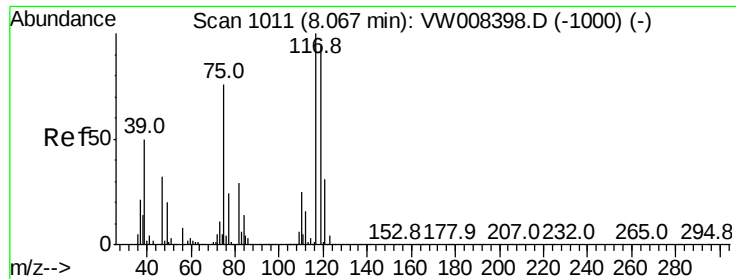
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.0	121.4
192	21.4	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008574.D
 Acq: 08 Feb 2019 15:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	17.3	52.0#
77	0.4	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.278 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

RBR-200028

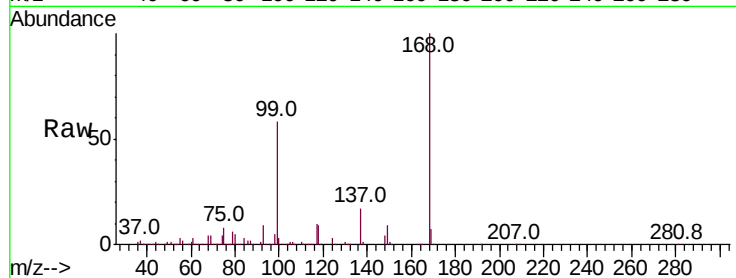
Tot Ion:117 Resp: 46287

Ion Ratio Lower Upper

117 100

119 3.3 75.0 112.4#

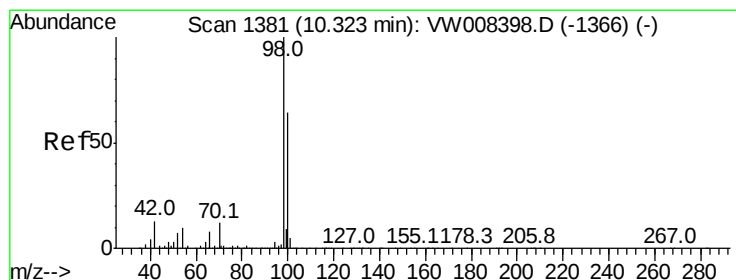
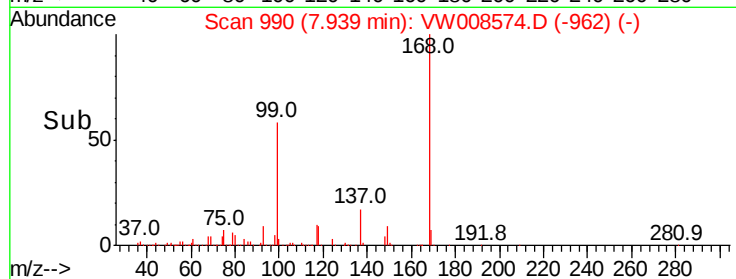
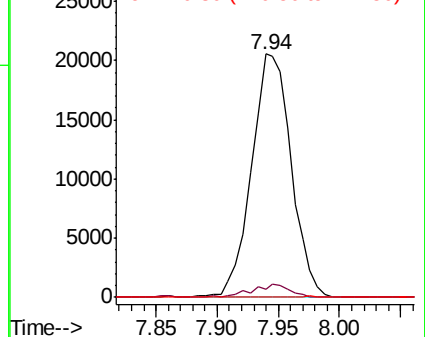
121 0.0 24.9 37.3#



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: 52.117 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008574.D

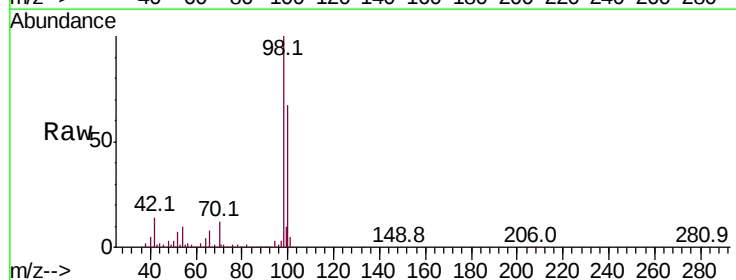
Acq: 08 Feb 2019 15:15

Tgt Ion: 98 Resp: 947847

Ion Ratio Lower Upper

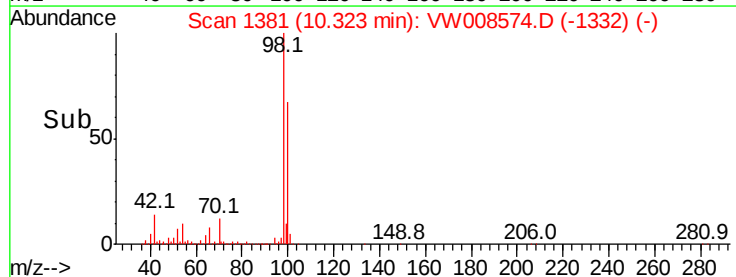
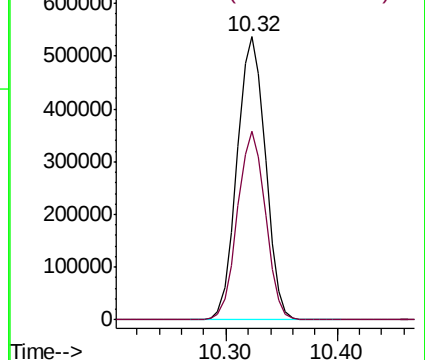
98 100

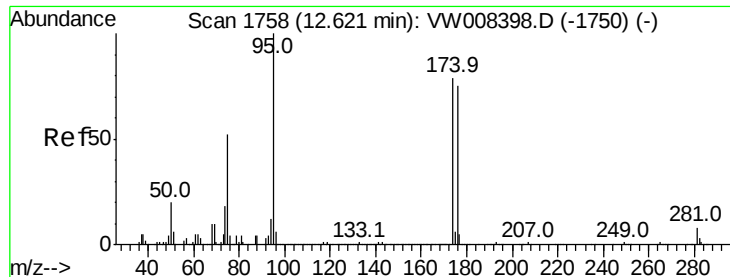
100 65.8 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

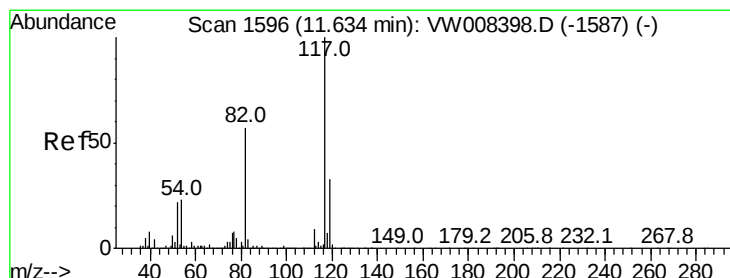
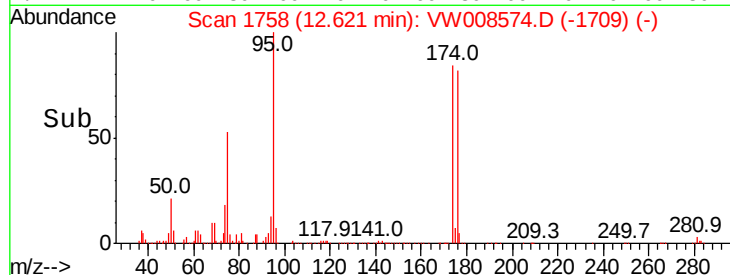
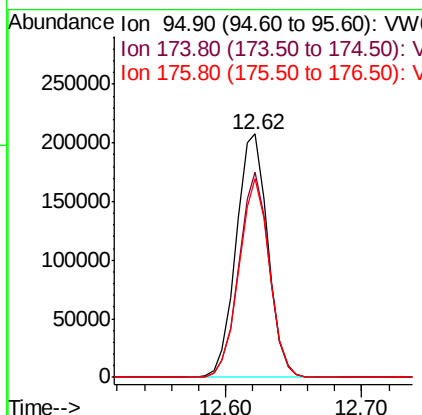
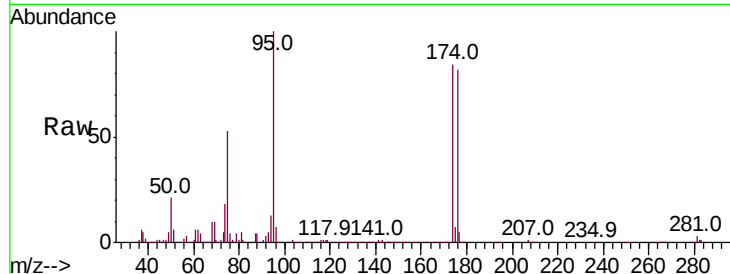




#62
4-Bromofluorobenzene
Concen: 48.239 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

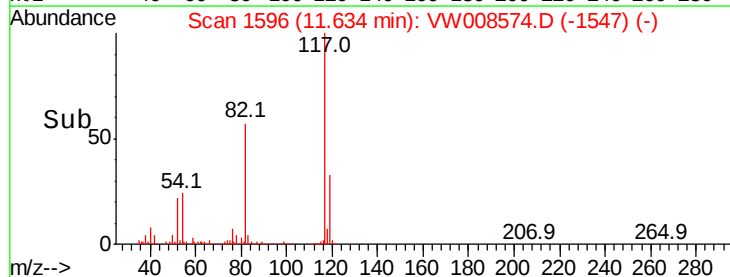
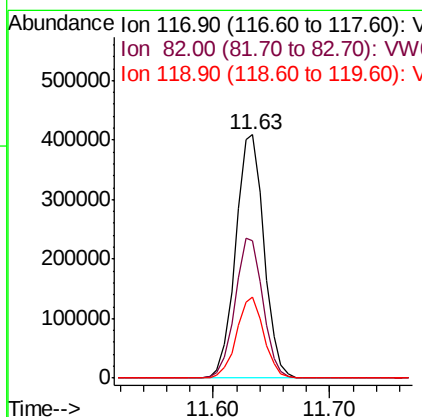
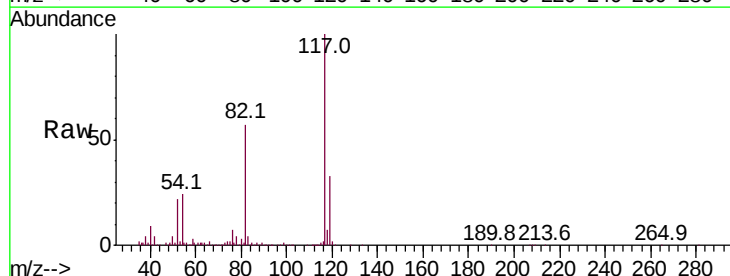
Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

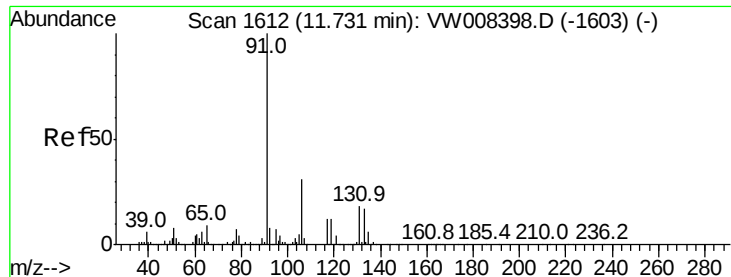
Tot Ion	Ratio	Lower	Upper
95	100		
174	80.7	0.0	157.6
176	78.9	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.4	68.0
119	33.2	26.2	39.4





#67

Ethyl Benzene

Concen: 1.399 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

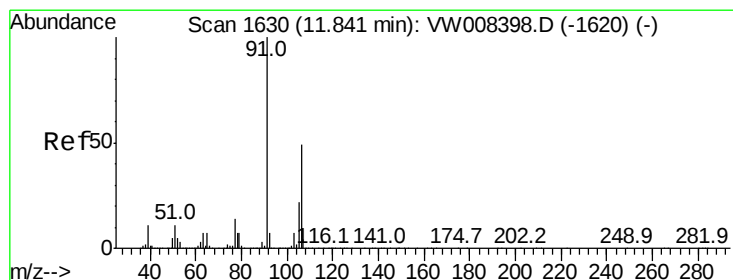
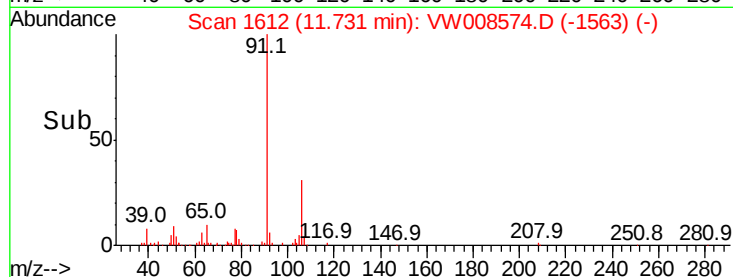
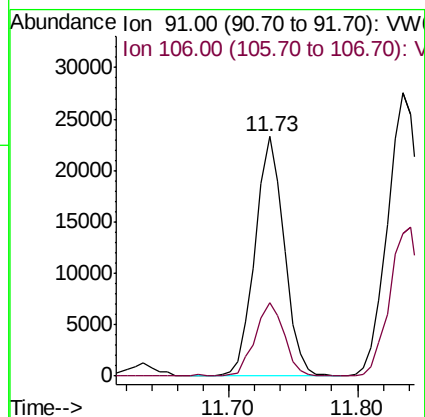
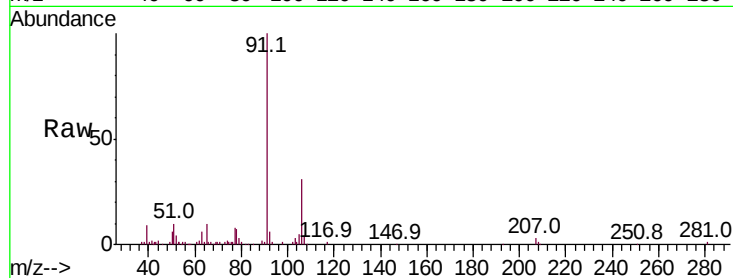
RBR-200028

Tot Ion: 91 Resp: 36347

Ion Ratio Lower Upper

91 100

106 30.7 24.7 37.1



#68

m/p-Xylenes

Concen: 2.516 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW008574.D

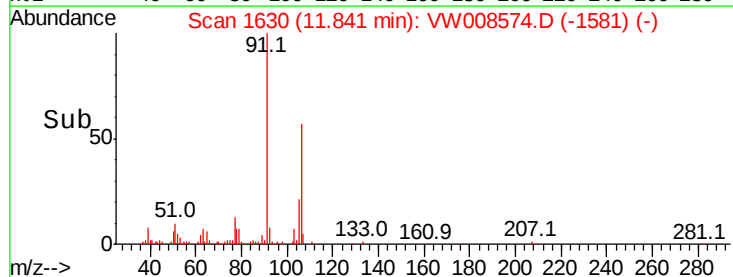
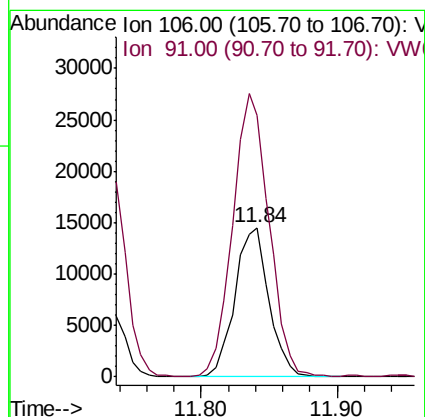
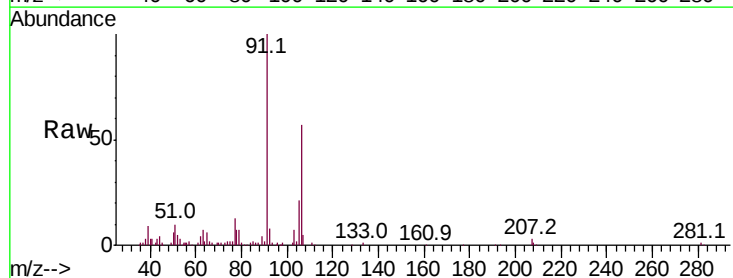
Acq: 08 Feb 2019 15:15

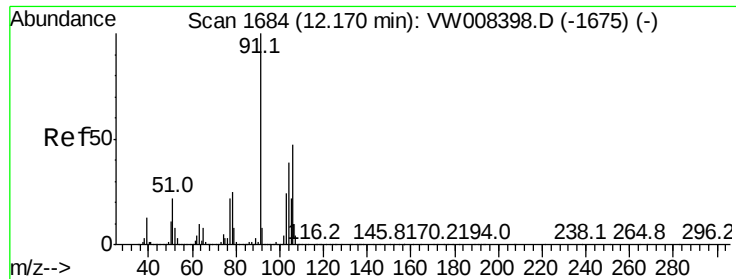
Tgt Ion: 106 Resp: 25354

Ion Ratio Lower Upper

106 100

91 201.5 162.9 244.3

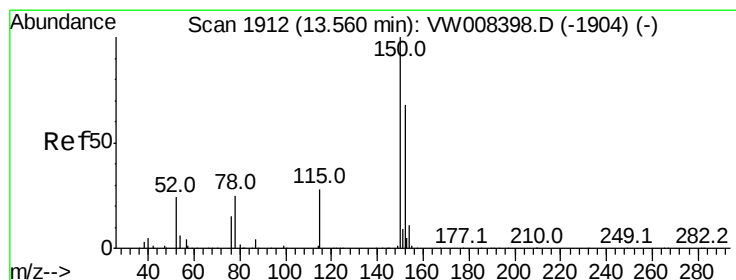
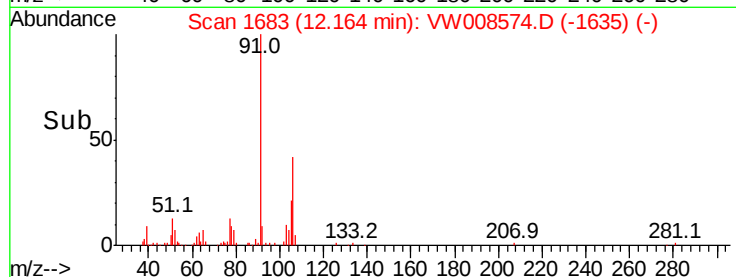
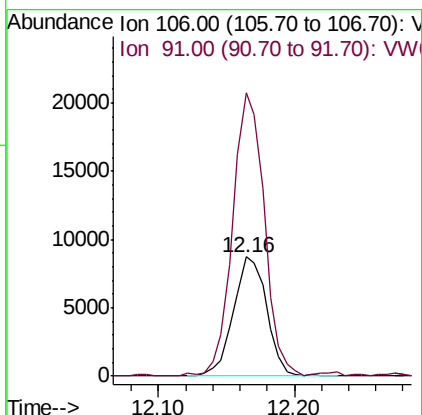
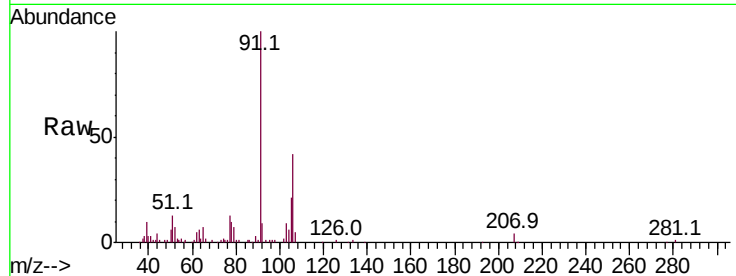




#69
o-Xylene
Concen: 1.558 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

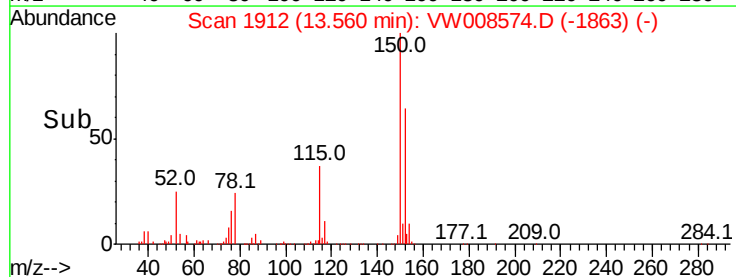
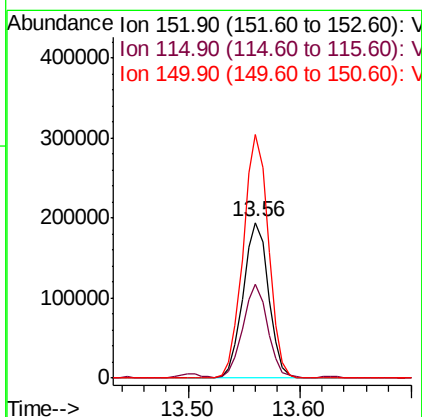
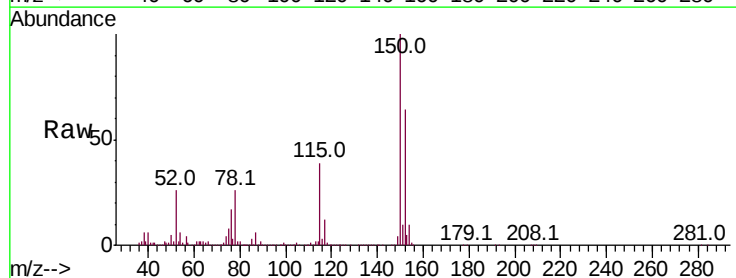
Instrument :
MSVOA_W
ClientSampleId :
RBR-200028

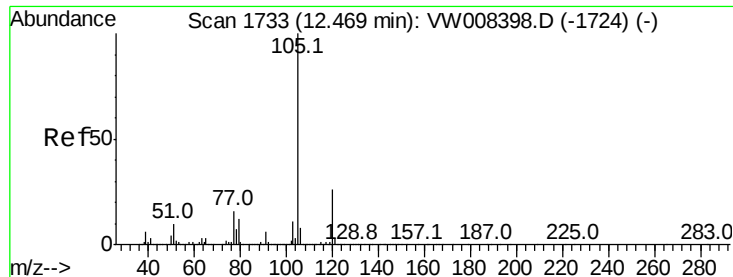
Tot Ion:106 Resp: 14915
Ion Ratio Lower Upper
106 100
91 225.3 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion:152 Resp: 308206
Ion Ratio Lower Upper
152 100
115 58.9 29.9 89.7
150 155.8 0.0 351.4





#73

Isopropylbenzene

Concen: 6.337 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

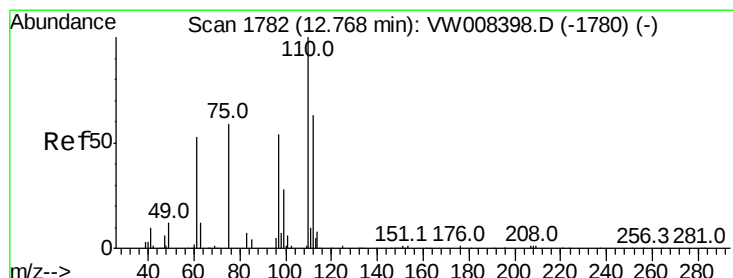
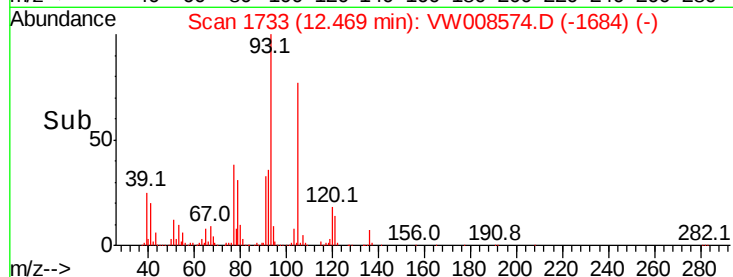
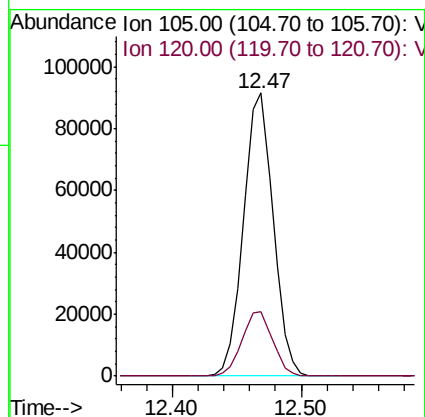
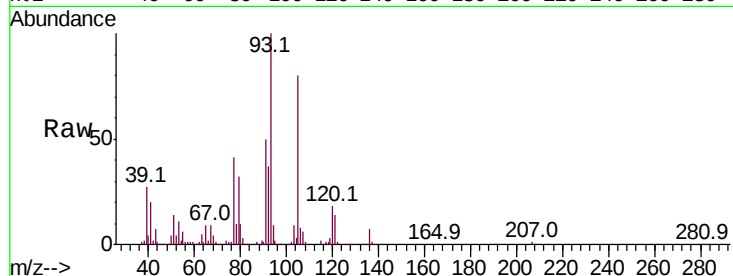
RBR-200028

Tot Ion: 105 Resp: 145614

Ion Ratio Lower Upper

105 100

120 23.4 13.3 39.8



#76

1,2,3-Trichloropropane

Concen: 66.447 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008574.D

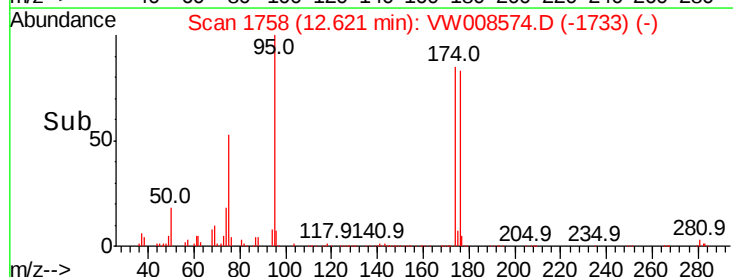
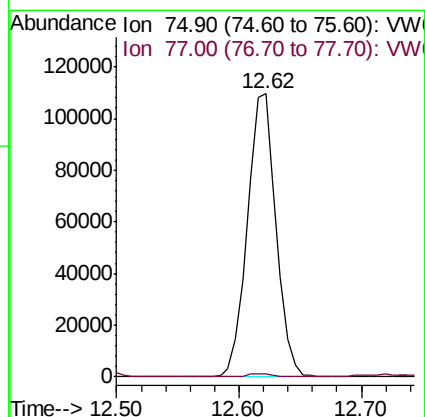
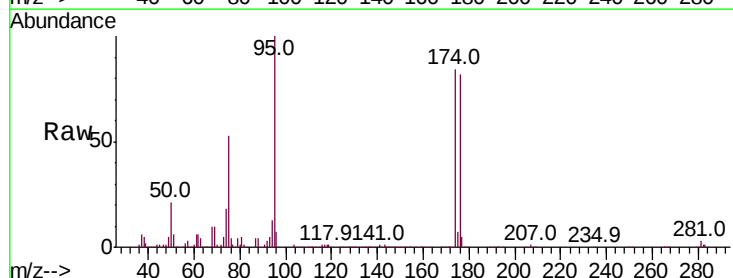
Acq: 08 Feb 2019 15:15

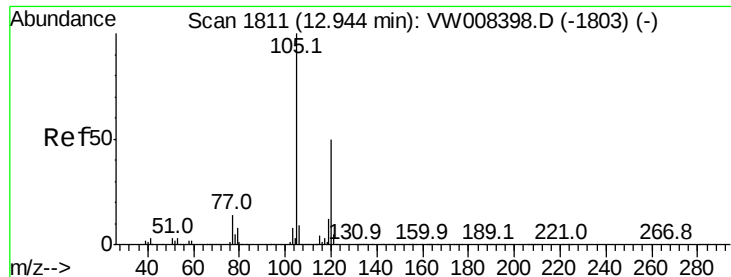
Tgt Ion: 75 Resp: 178055

Ion Ratio Lower Upper

75 100

77 1.4 180.7 542.1#





#80

1,3,5-Trimethylbenzene

Concen: 2.895 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampleId :

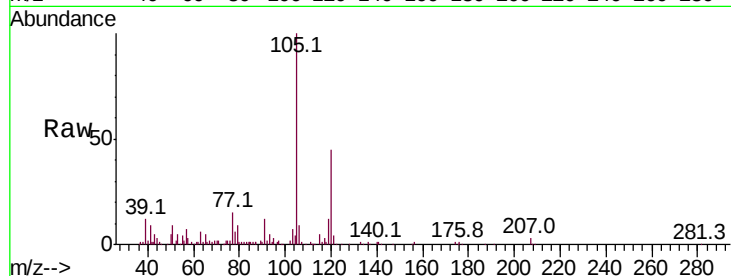
RBR-200028

Tot Ion:105 Resp: 55608

Ion Ratio Lower Upper

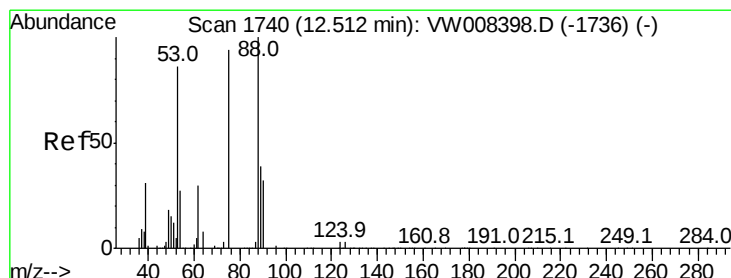
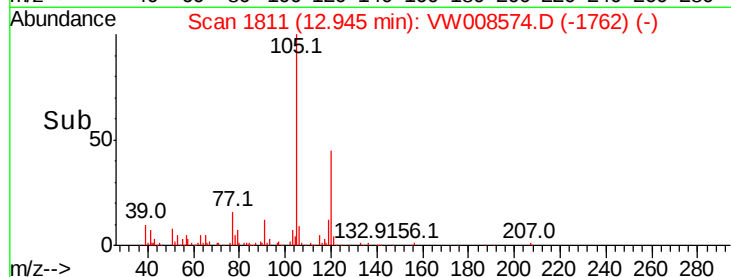
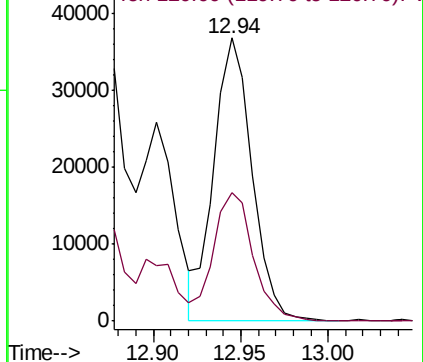
105 100

120 48.0 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 131.239 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

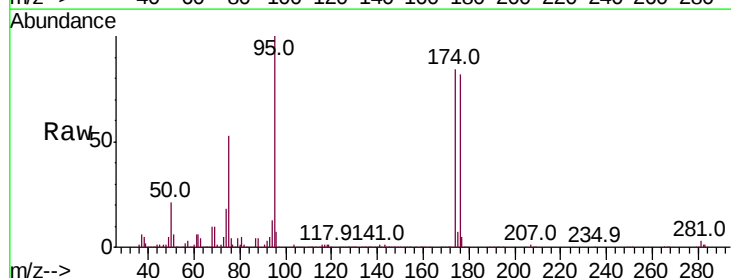
Tgt Ion: 75 Resp: 178055

Ion Ratio Lower Upper

75 100

53 0.0 76.0 114.0#

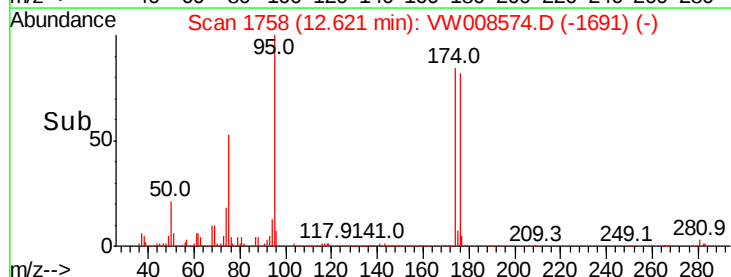
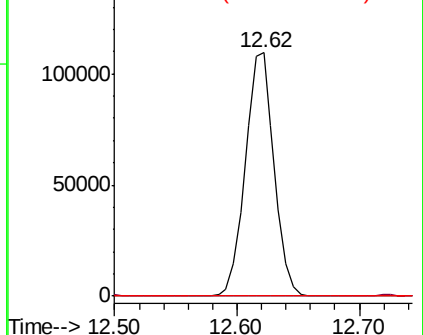
89 0.1 35.4 53.0#

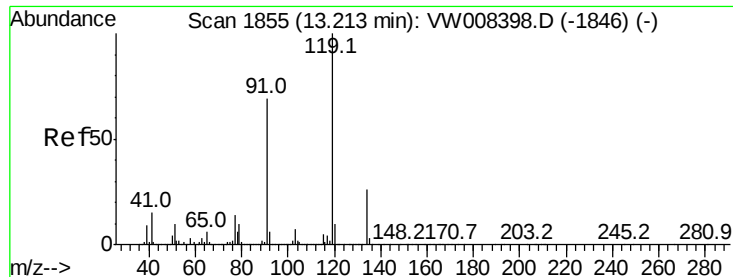


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#83

tert-Butylbenzene

Concen: 1.610 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.04 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampleId :

RBR-200028

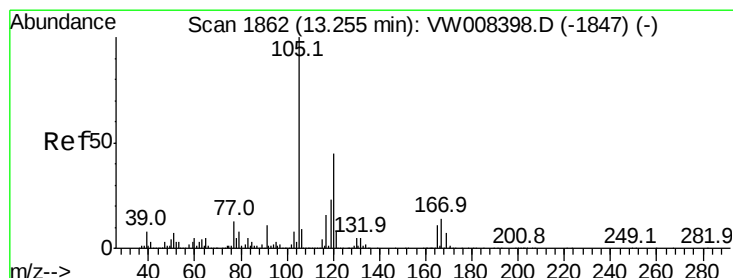
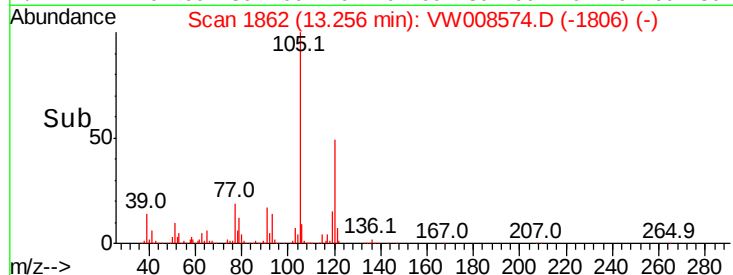
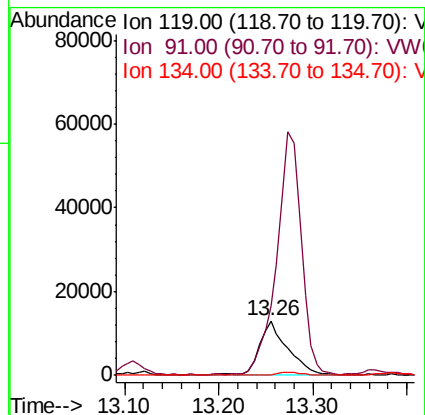
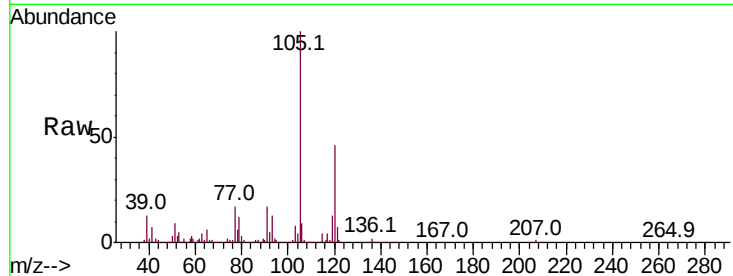
Tot Ion:119 Resp: 27515

Ion Ratio Lower Upper

119 100

91 384.5 33.8 101.4#

134 4.3 13.5 40.4#



#84

1,2,4-Trimethylbenzene

Concen: 8.872 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008574.D

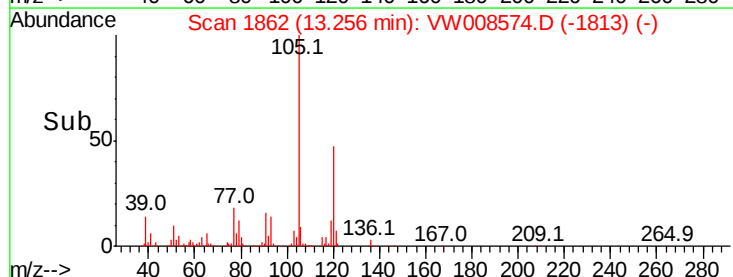
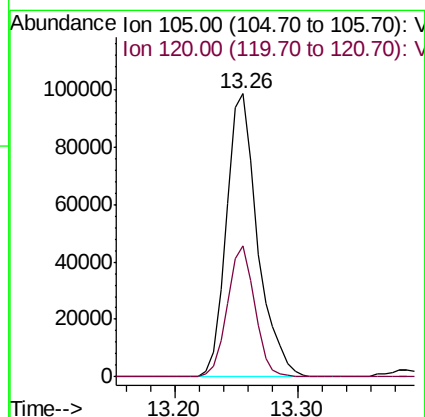
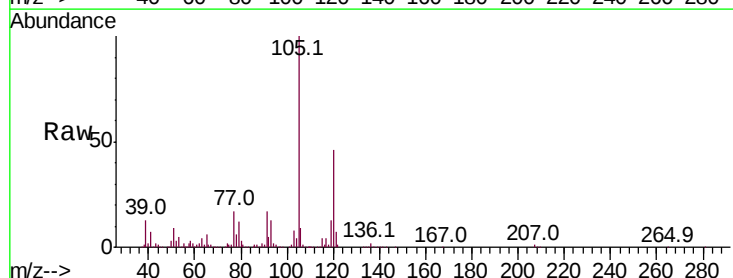
Acq: 08 Feb 2019 15:15

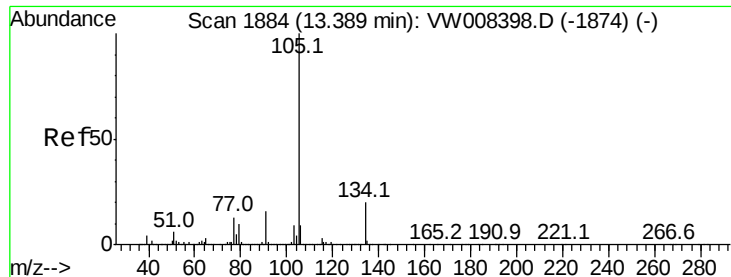
Tgt Ion:105 Resp: 173187

Ion Ratio Lower Upper

105 100

120 40.8 23.1 69.2





#85

sec-Butylbenzene

Concen: 7.096 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.13 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampleId :

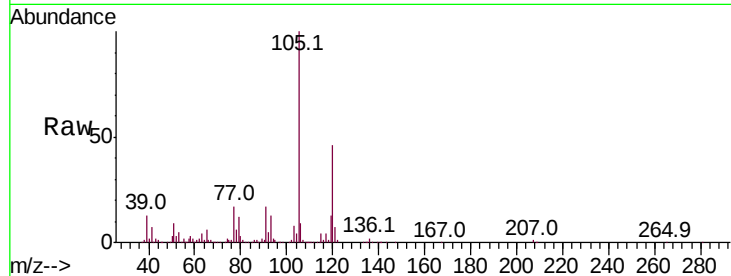
RBR-200028

Tot Ion:105 Resp: 173187

Ion Ratio Lower Upper

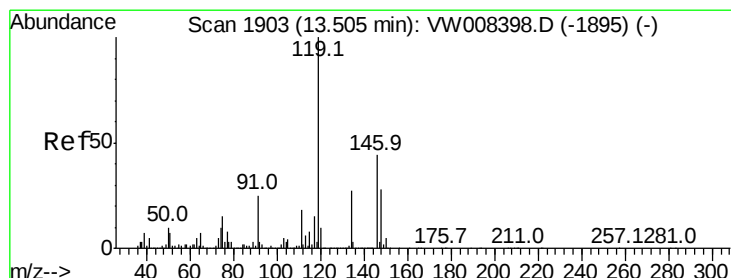
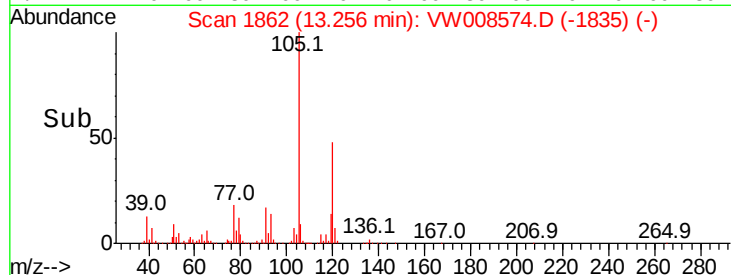
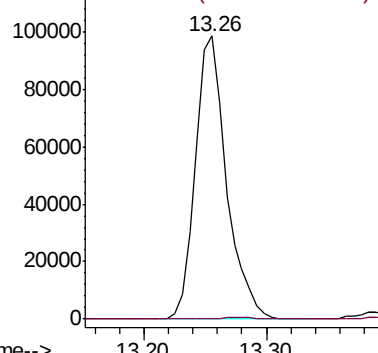
105 100

134 0.7 10.2 30.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.978 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.01 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

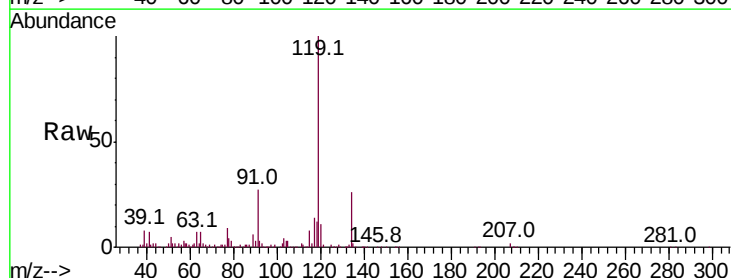
Tgt Ion:119 Resp: 106419

Ion Ratio Lower Upper

119 100

134 25.0 13.4 40.2

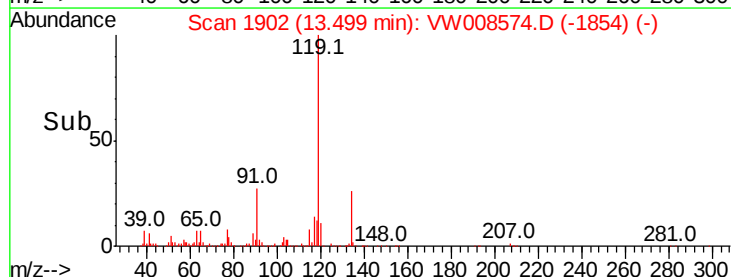
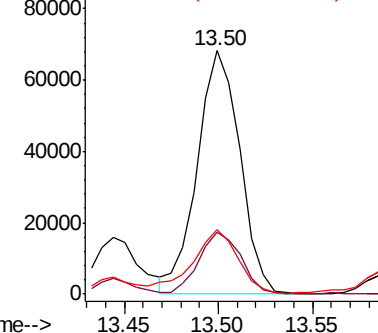
91 27.8 12.6 37.6

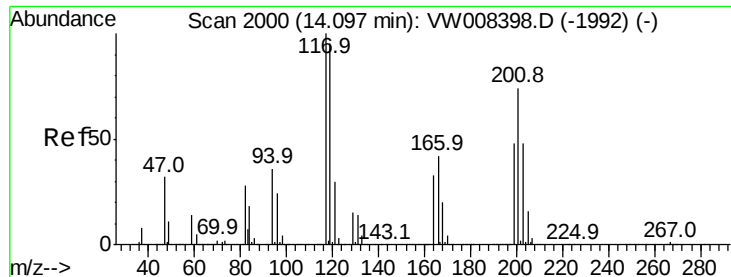


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: 1.501 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

Instrument :

MSVOA_W

ClientSampled :

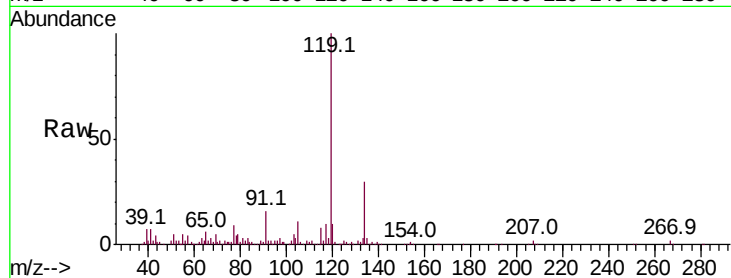
RBR-200028

Tot Ion:117 Resp: 6277

Ion Ratio Lower Upper

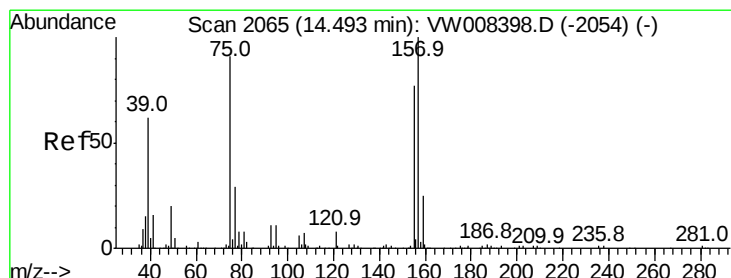
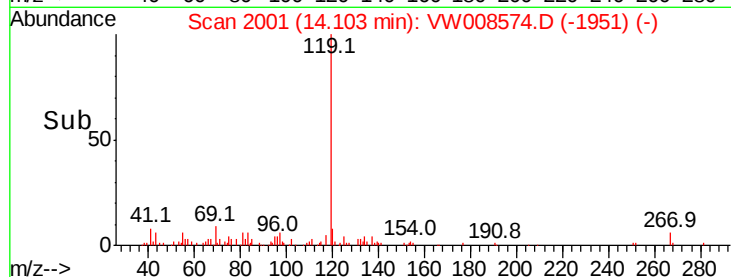
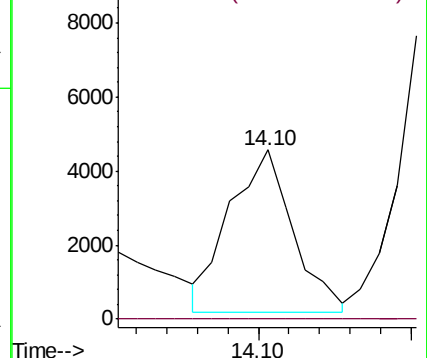
117 100

201 0.0 39.1 117.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 14.294 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW008574.D

Acq: 08 Feb 2019 15:15

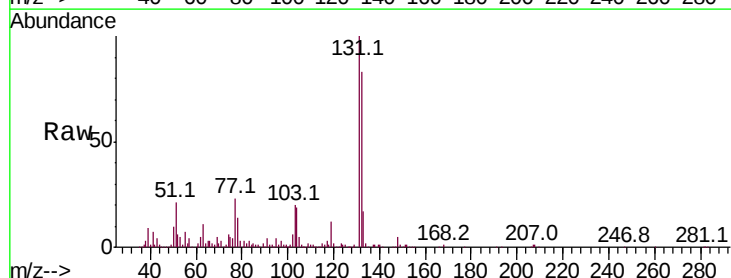
Tgt Ion: 75 Resp: 9866

Ion Ratio Lower Upper

75 100

155 0.3 42.7 128.1#

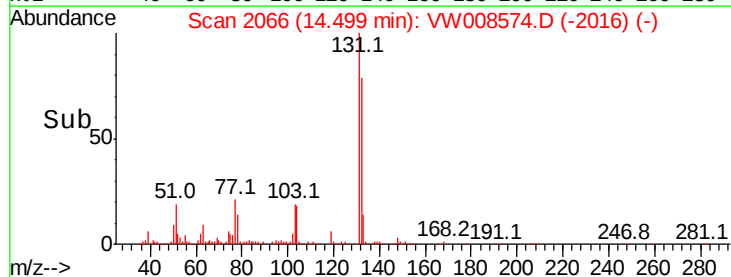
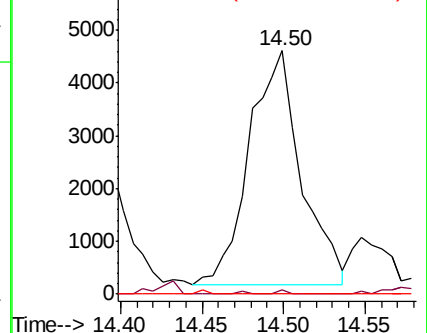
157 0.0 55.5 166.3#

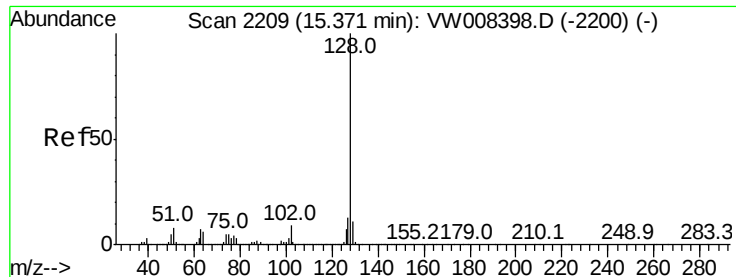


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

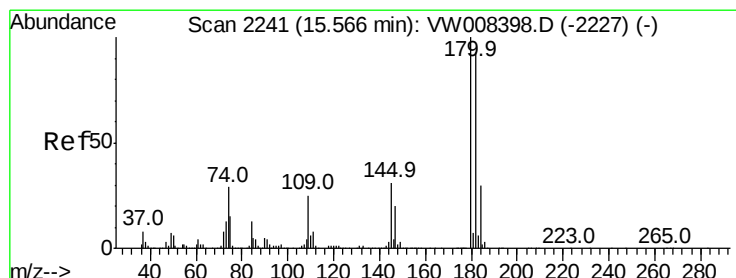
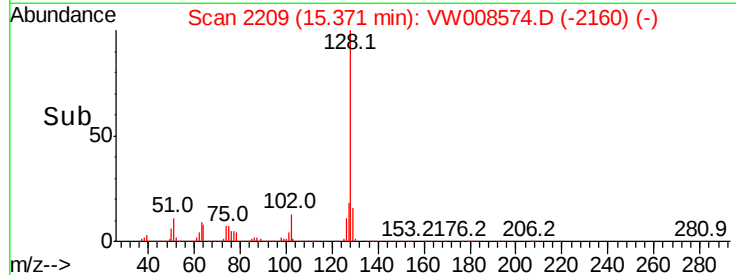
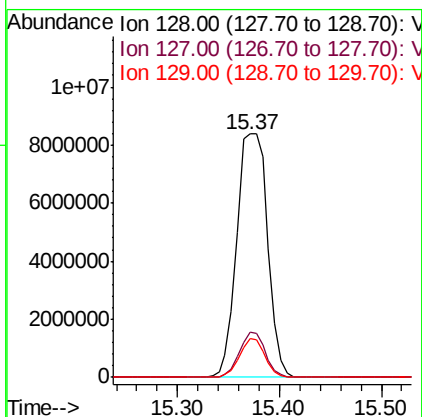
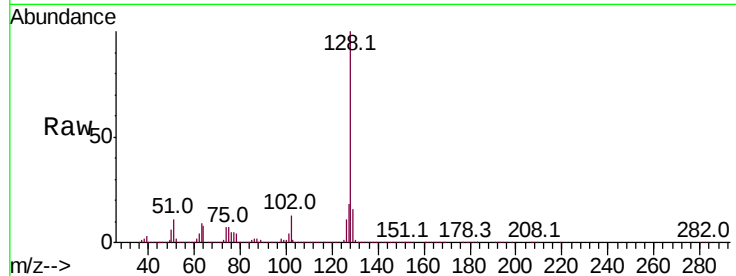




#95
Naphthalene
Concen: 1559.017 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Instrument :
MSVOA_W
ClientSampled :
RBR-200028

Tot Ion:128 Resp:17516761
Ion Ratio Lower Upper
128 100
127 15.6 10.6 15.8
129 13.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.298 ug/l
RT: 15.58 min Scan# 2244
Delta R.T. 0.02 min
Lab File: VW008574.D
Acq: 08 Feb 2019 15:15

Tgt Ion:180 Resp: 12472
Ion Ratio Lower Upper
180 100
182 8.8 47.0 141.2#
145 0.0 15.9 47.6#

