

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112618\
 Data File : VW007053.D
 Acq On : 26 Nov 2018 17:41
 Operator : VAY/AP
 Sample : J6055-02
 Misc : 4.2G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RICH-REC-ROAD-STONE-7

Quant Time: Nov 27 05:26:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W112118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 03:23:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	119221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	192138	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	173660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	74027	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	58974	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	7.89	113	57	0.05	ug/l	0.00
Spiked Amount			Recovery	=	0.10%	
50) Toluene-d8	10.33	98	217681	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
62) 4-Bromofluorobenzene	12.62	95	76734	40.70	ug/l	0.00
Spiked Amount			Recovery	=	81.40%	

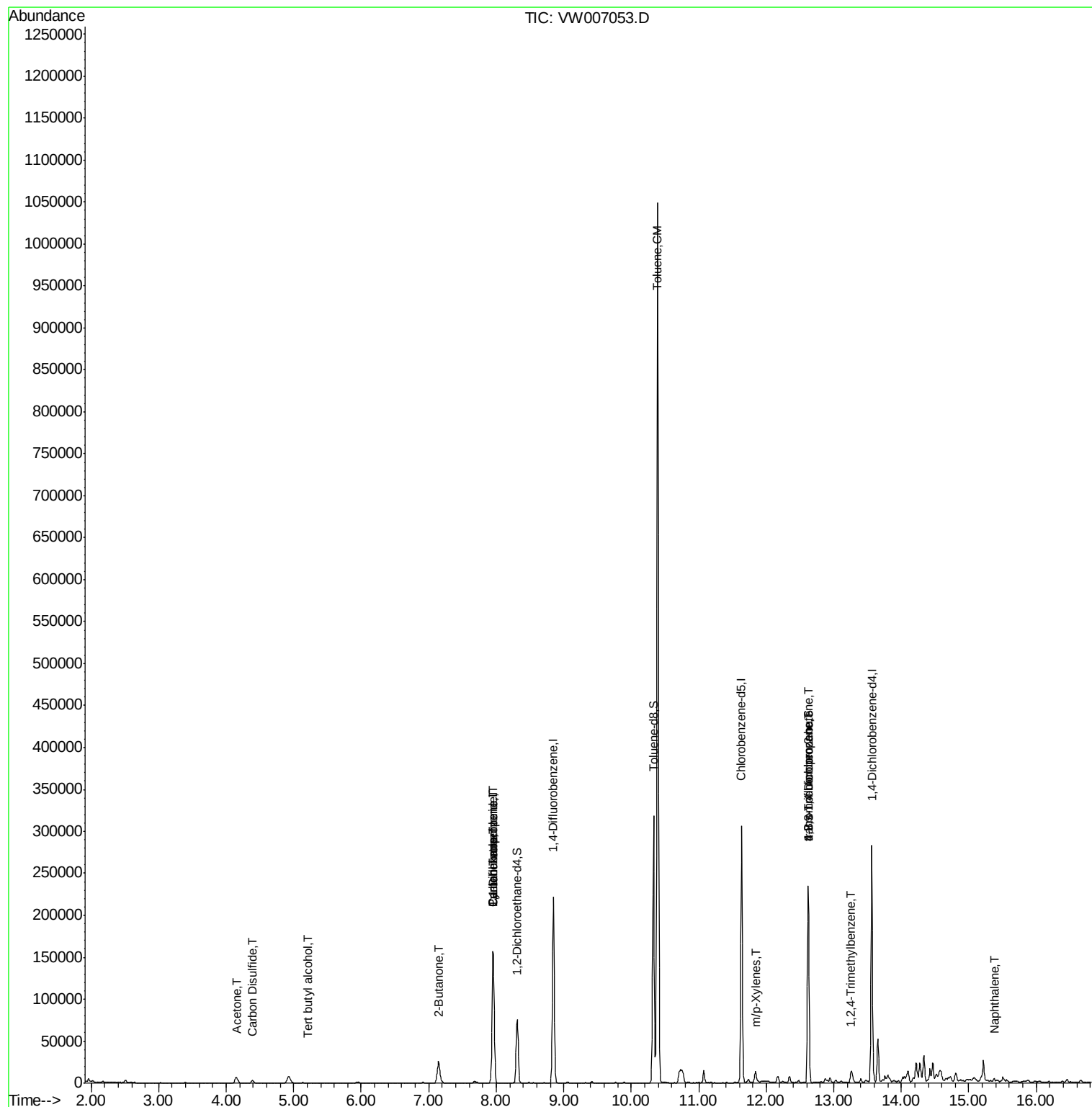
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	221	2.909	ug/l #	71
16) Acetone	4.15	43	13675	80.696	ug/l	89
17) Carbon Disulfide	4.39	76	5900	1.691	ug/l	99
20) Methylene Chloride	4.93	84	6248	Below Cal		93
25) 2-Butanone	7.14	43	944	3.252	ug/l #	48
31) Cyclohexane	7.95	56	2382	1.060	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	9264	4.934	ug/l #	49
38) Carbon Tetrachloride	7.95	117	12389	6.891	ug/l #	16
52) Toluene	10.39	92	452077	131.068	ug/l	100
68) m/p-Xylenes	11.84	106	3741	1.432	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	37510	64.484	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	37510	161.892	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.26	105	9222	1.860	ug/l	82
95) Naphthalene	15.38	128	3418	1.292	ug/l	99

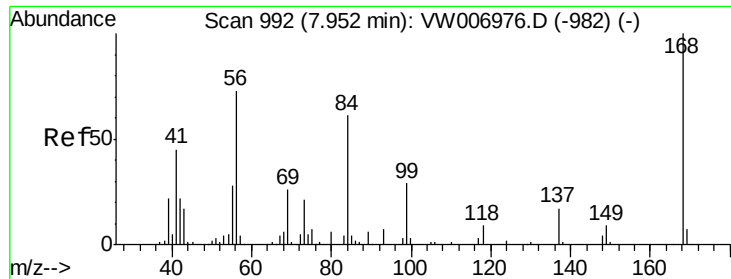
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

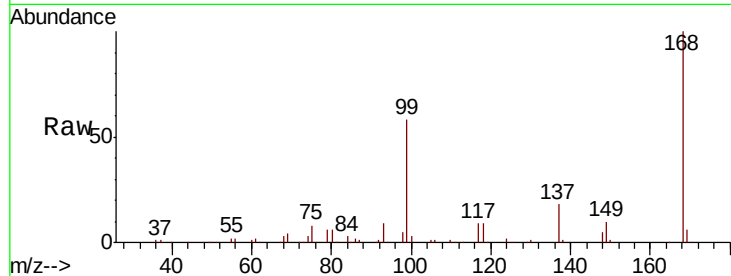
RICH-REC-ROAD-STONE-7

Tot Ion:168 Resp: 119221

Ion Ratio Lower Upper

168 100

99 58.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

60000

50000

40000

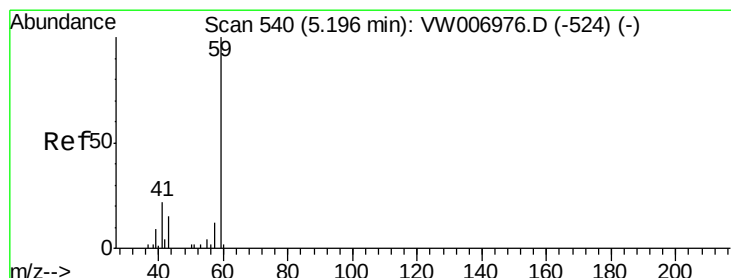
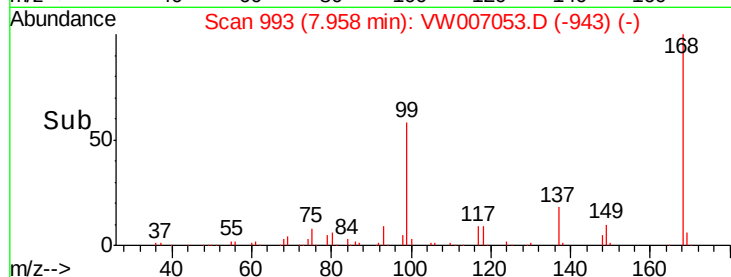
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.909 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.02 min

Lab File: VW007053.D

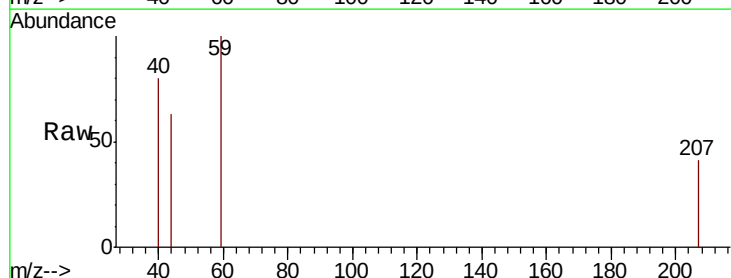
Acq: 26 Nov 2018 17:41

Tgt Ion: 59 Resp: 221

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

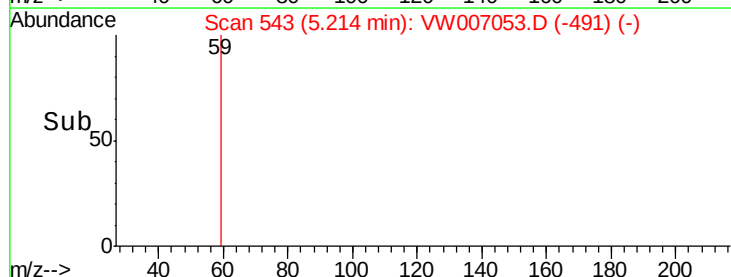
150

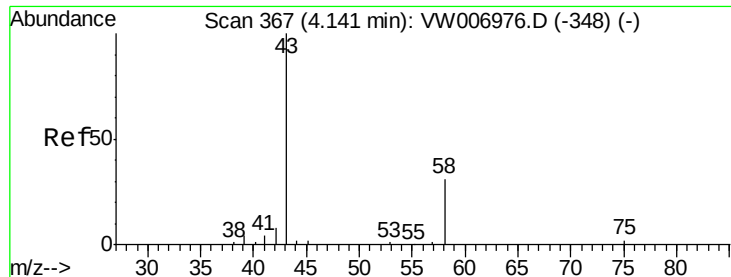
100

50

0

Time-->





#16

Acetone

Concen: 80.696 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

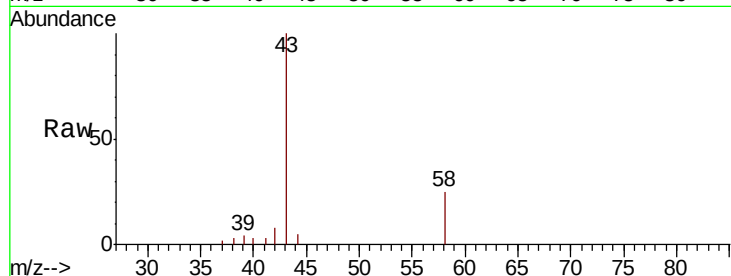
RICH-REC-ROAD-STONE-7

Tot Ion: 43 Resp: 13675

Ion Ratio Lower Upper

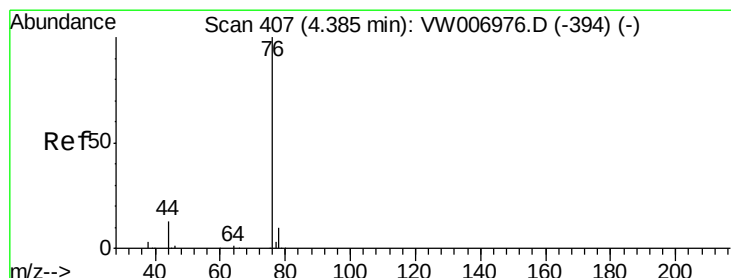
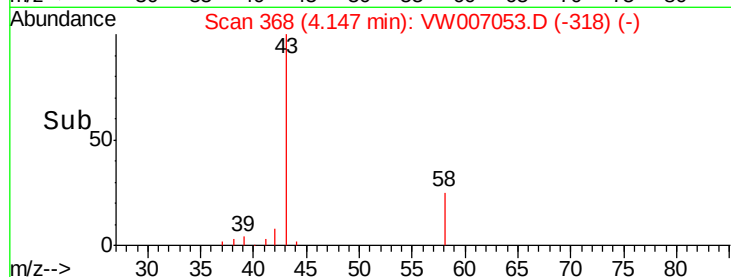
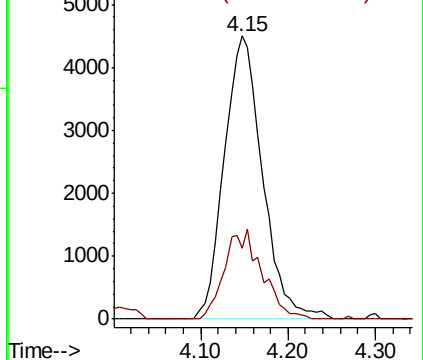
43 100

58 25.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 1.691 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW007053.D

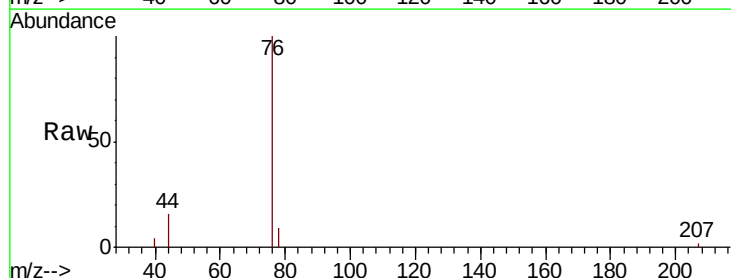
Acq: 26 Nov 2018 17:41

Tgt Ion: 76 Resp: 5900

Ion Ratio Lower Upper

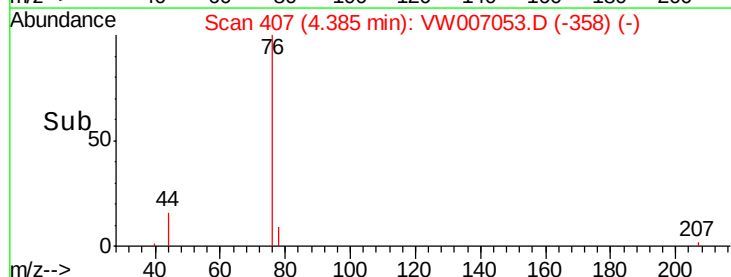
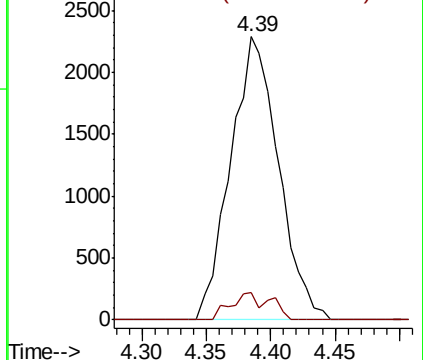
76 100

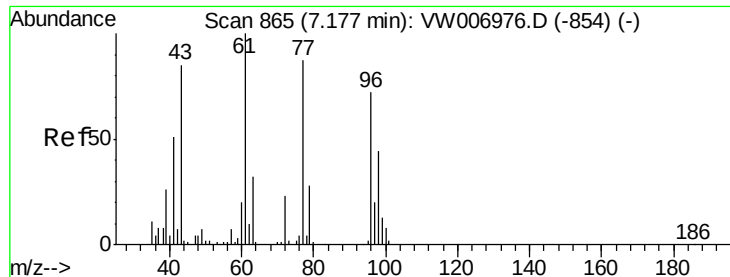
78 9.5 7.8 11.6



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#25

2-Butanone

Concen: 3.252 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.04 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

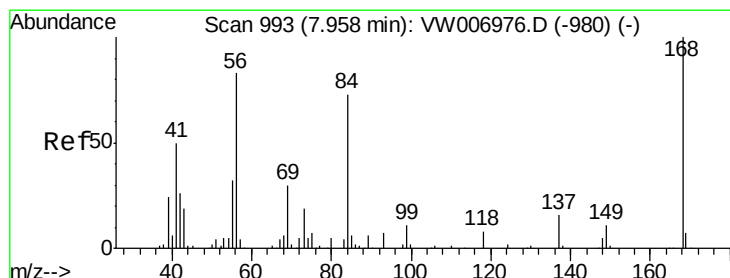
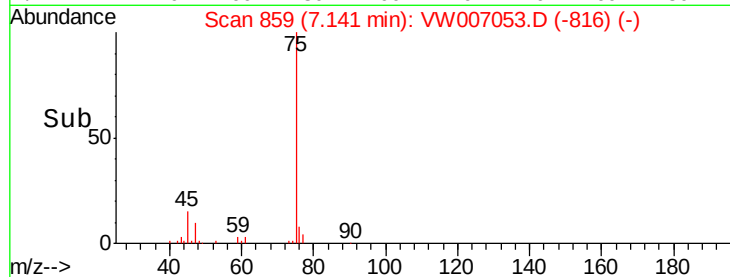
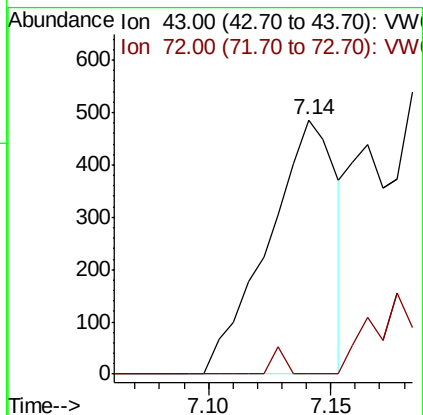
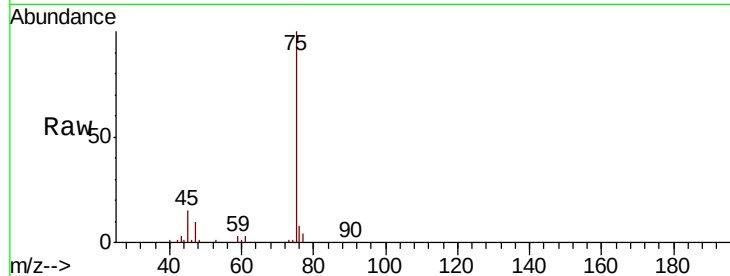
RICH-REC-ROAD-STONE-7

Tot Ion: 43 Resp: 944

Ion Ratio Lower Upper

43 100

72 0.0 21.3 31.9#



#31

Cyclohexane

Concen: 1.060 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

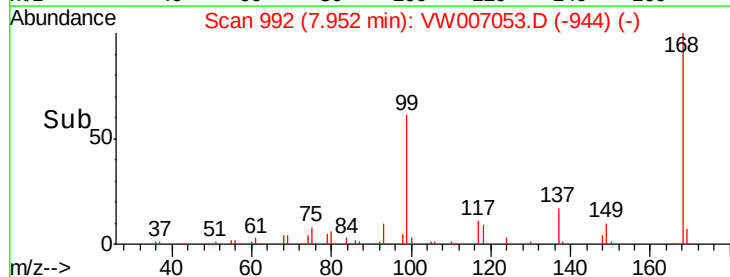
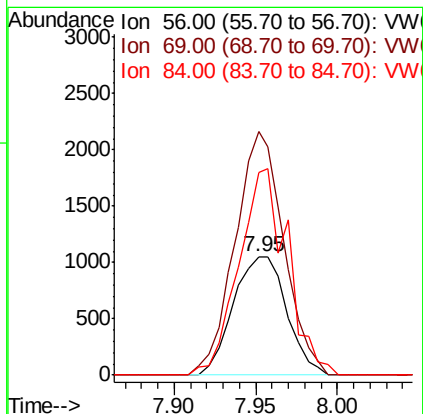
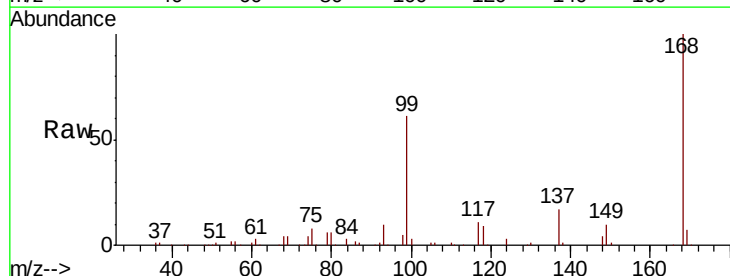
Tgt Ion: 56 Resp: 2382

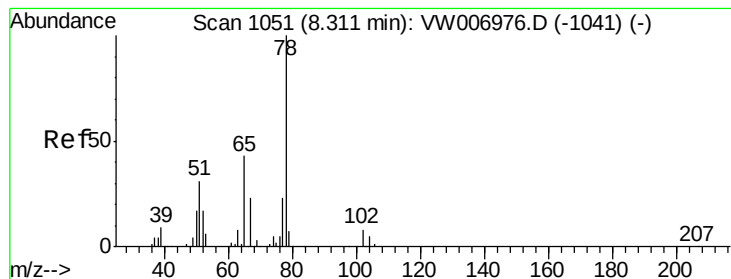
Ion Ratio Lower Upper

56 100

69 205.6 29.1 43.7#

84 170.8 70.6 105.8#





#33

1,2-Dichloroethane-d4

Concen: 50.526 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

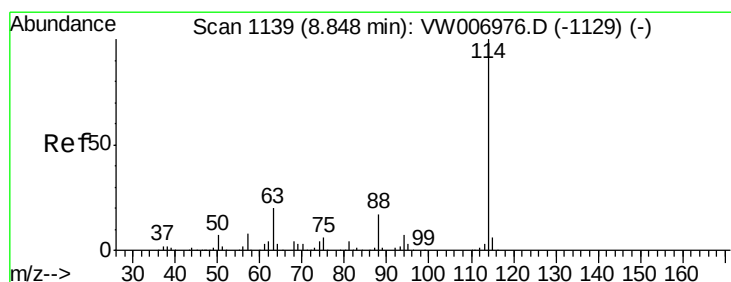
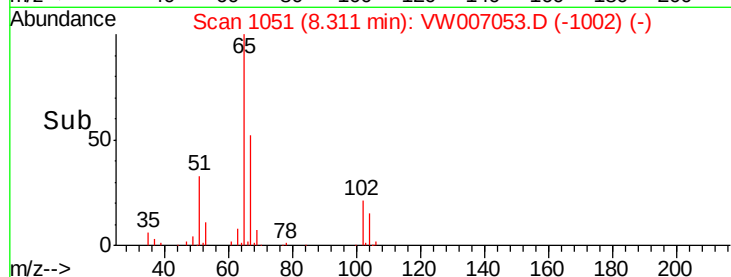
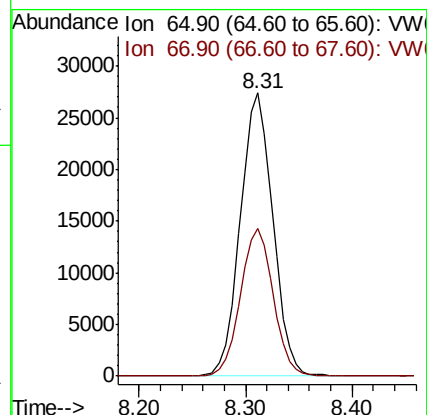
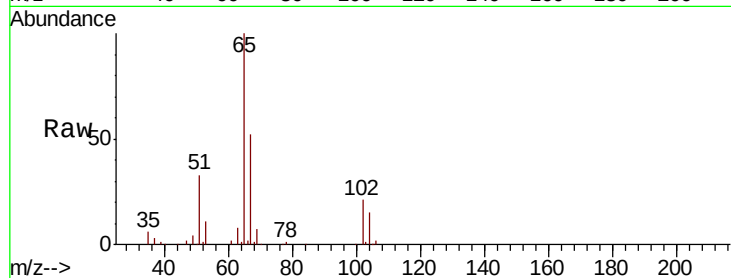
RICH-REC-ROAD-STONE-7

Tot Ion: 65 Resp: 58974

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

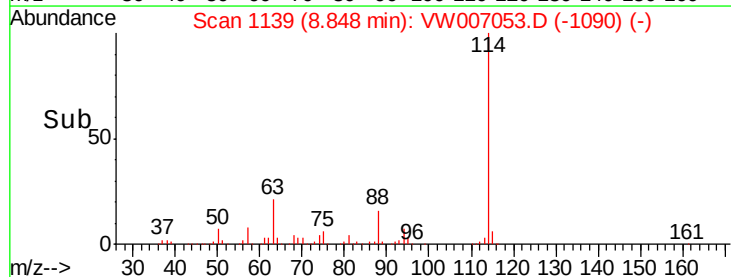
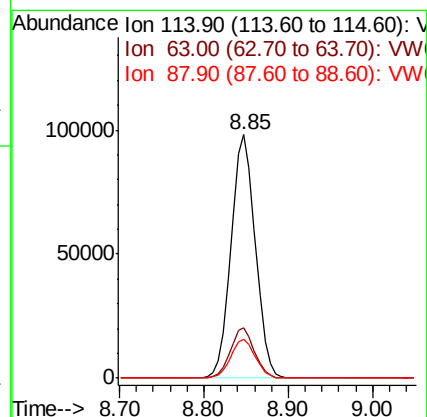
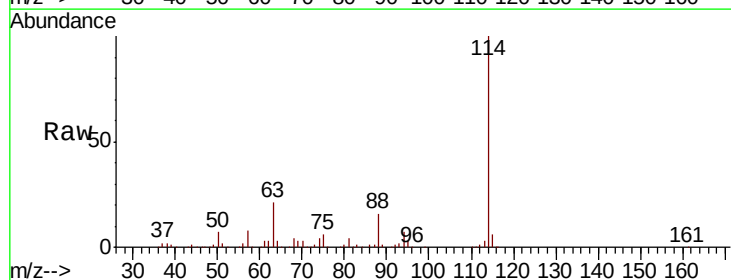
Tgt Ion: 114 Resp: 192138

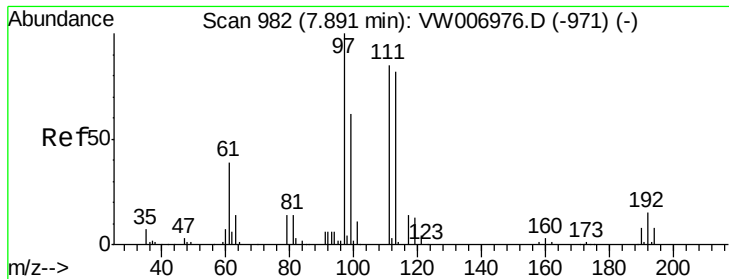
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.4

88 15.8 0.0 34.2

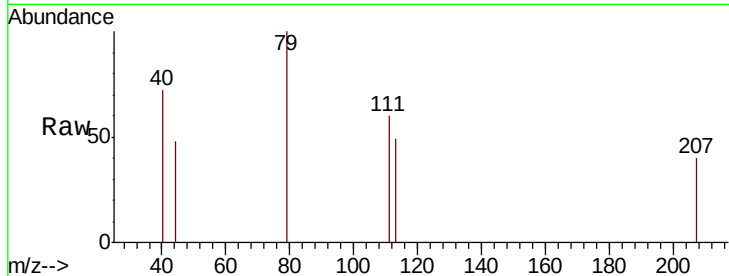




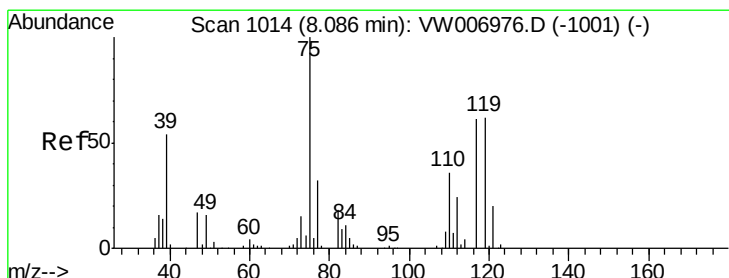
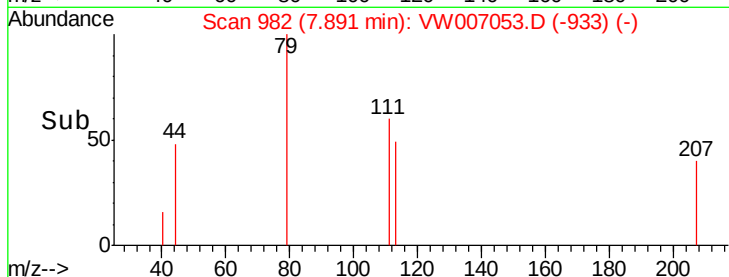
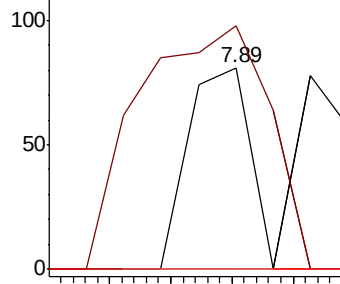
#35
 Dibromofluoromethane
 Concen: 0.053 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW007053.D
 Acq: 26 Nov 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 RICH-REC-ROAD-STONE-7

Tot Ion:113 Resp: 57
 Ion Ratio Lower Upper
 113 100
 111 254.4 81.0 121.6#
 192 0.0 15.0 22.6#

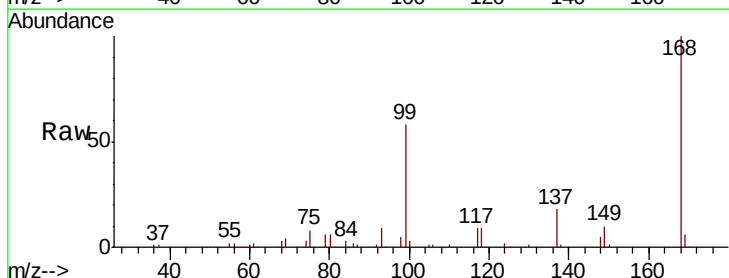


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

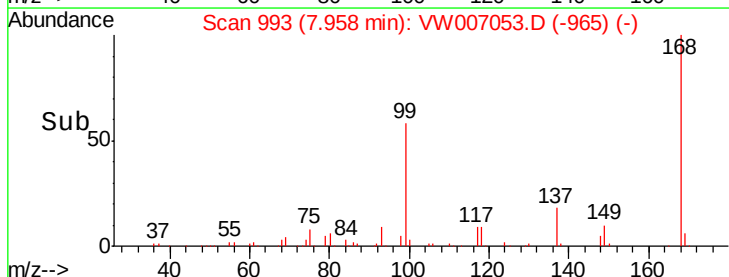
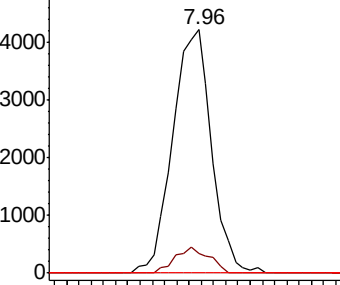


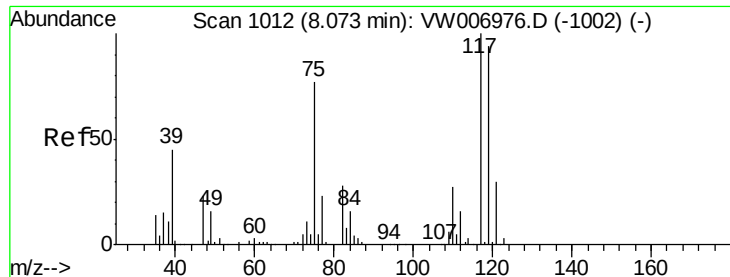
#36
 1,1-Dichloropropene
 Concen: 4.934 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW007053.D
 Acq: 26 Nov 2018 17:41

Tgt Ion: 75 Resp: 9264
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.0 54.0#
 77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.891 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

RICH-REC-ROAD-STONE-7

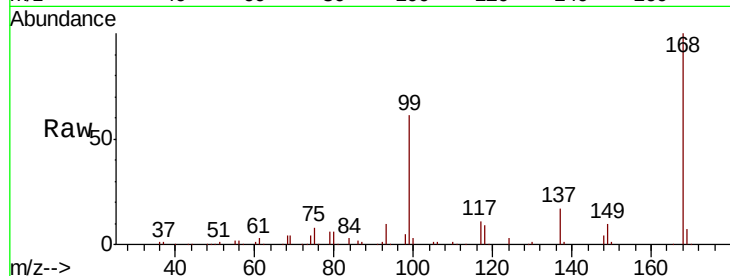
Tot Ion:117 Resp: 12389

Ion Ratio Lower Upper

117 100

119 4.3 74.9 112.3#

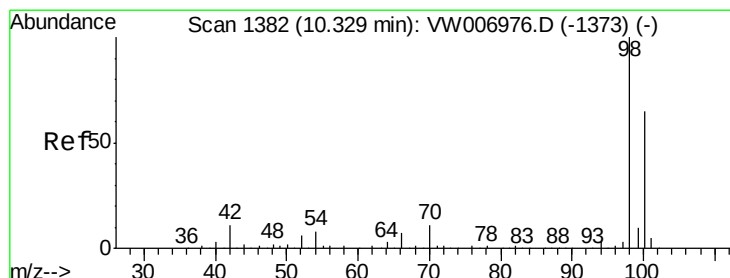
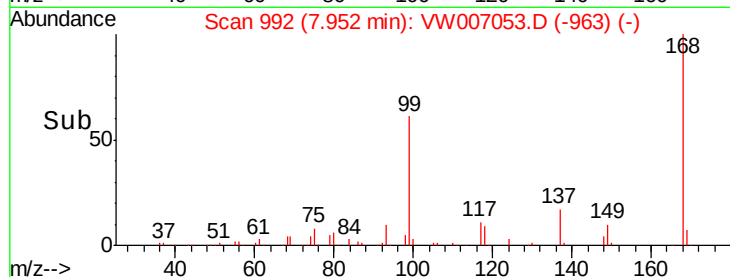
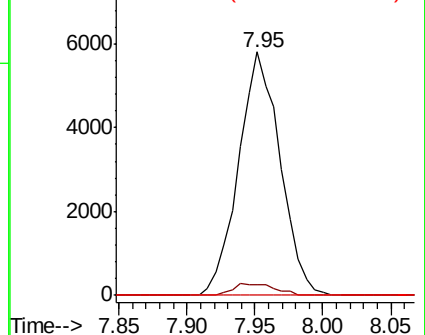
121 0.0 23.6 35.4#



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: 45.431 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW007053.D

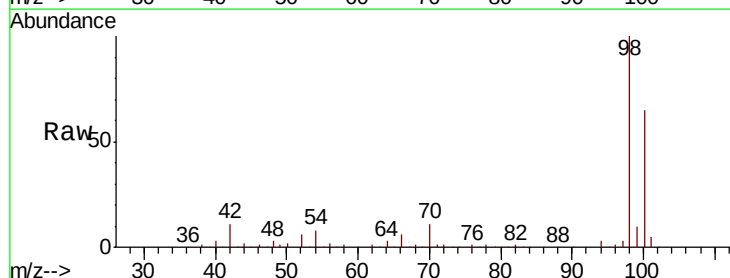
Acq: 26 Nov 2018 17:41

Tgt Ion: 98 Resp: 217681

Ion Ratio Lower Upper

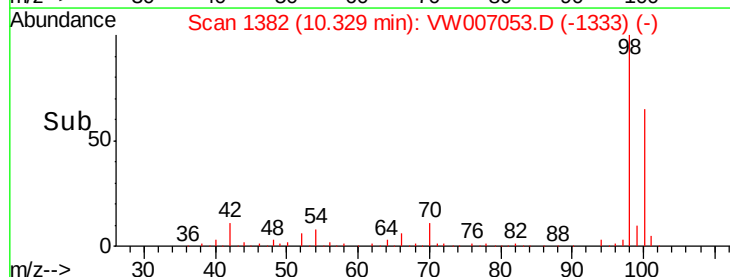
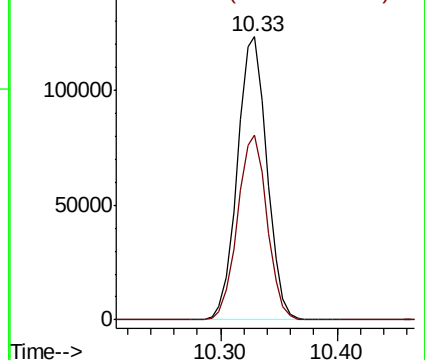
98 100

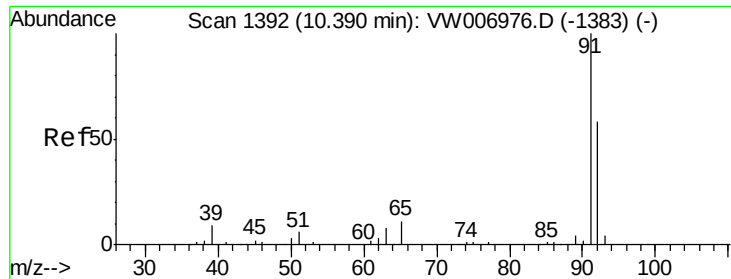
100 65.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 131.068 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

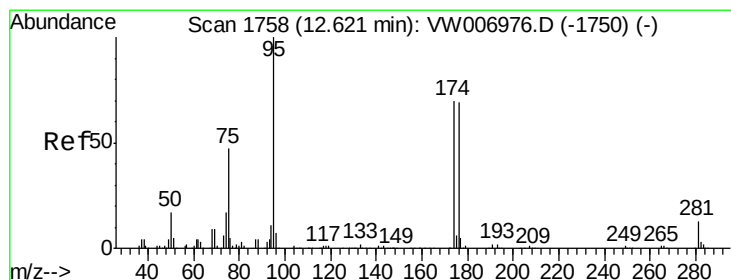
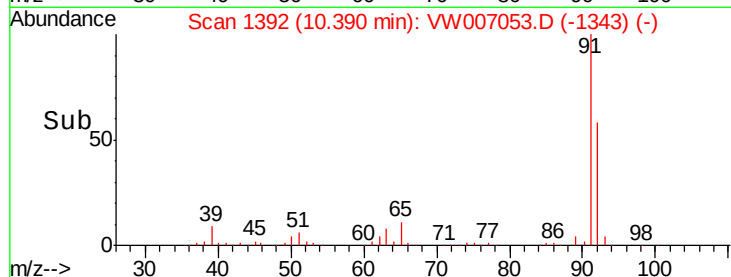
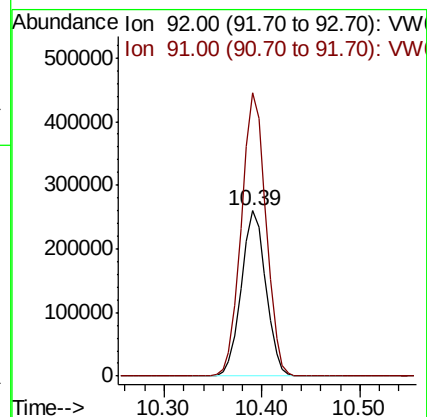
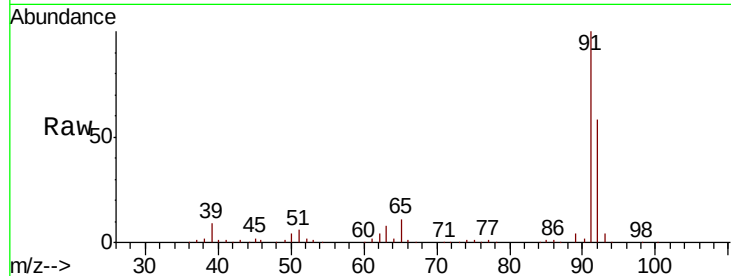
RICH-REC-ROAD-STONE-7

Tot Ion: 92 Resp: 452077

Ion Ratio Lower Upper

92 100

91 171.8 137.3 205.9



#62

4-Bromofluorobenzene

Concen: 40.697 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007053.D

Acq: 26 Nov 2018 17:41

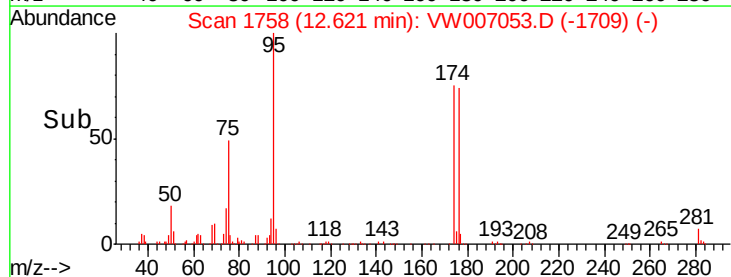
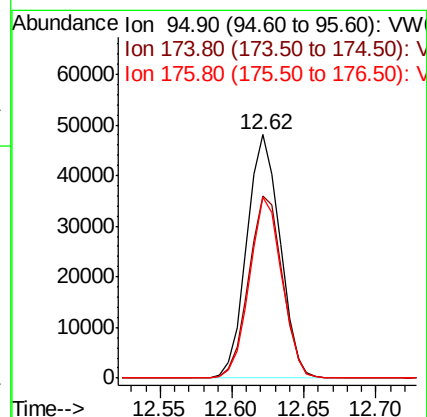
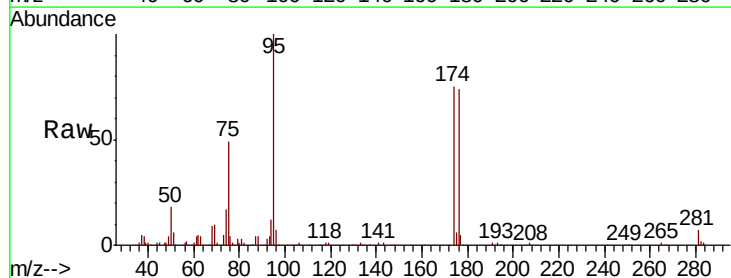
Tgt Ion: 95 Resp: 76734

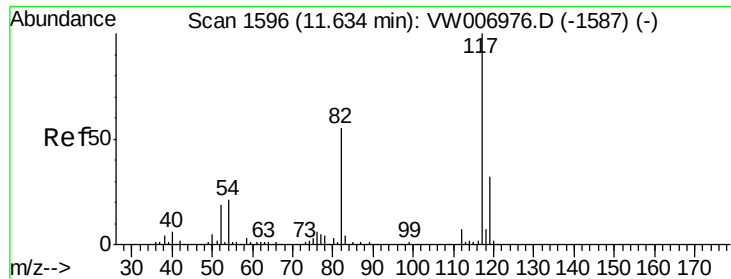
Ion Ratio Lower Upper

95 100

174 75.5 0.0 143.6

176 72.4 0.0 140.4

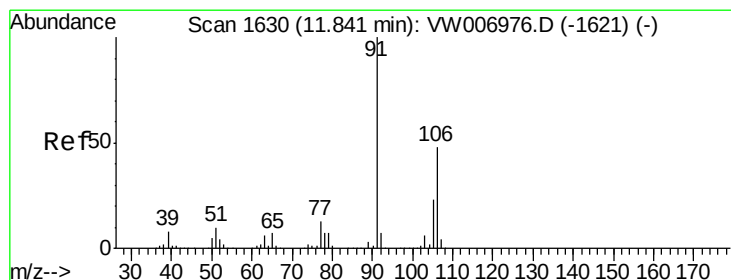
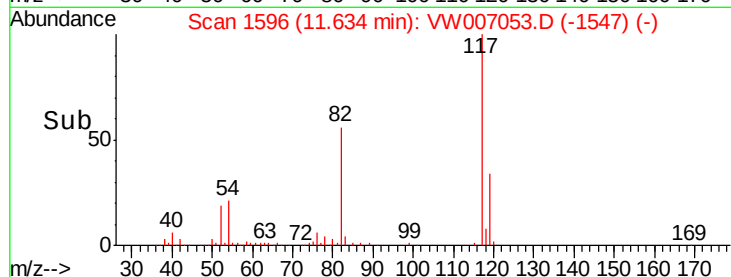
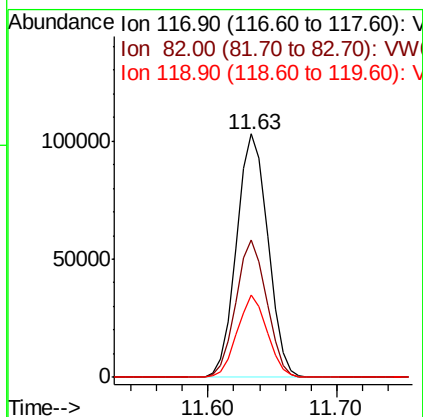
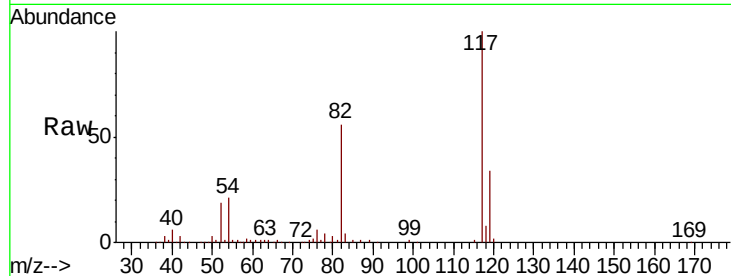




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

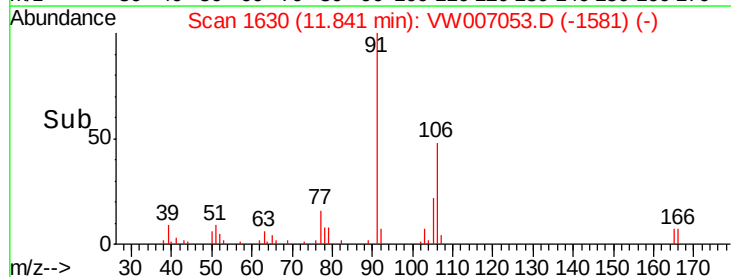
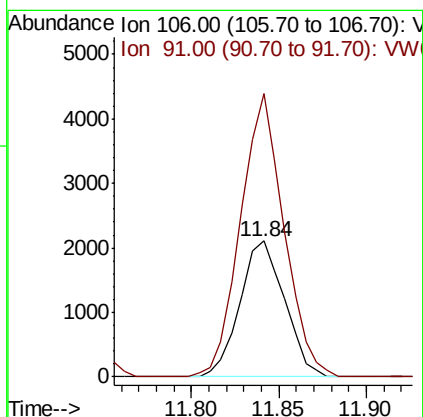
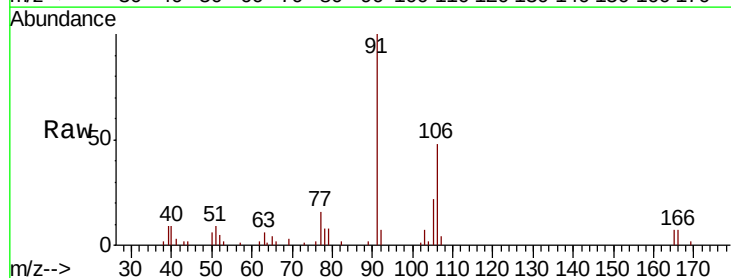
Instrument :
MSVOA_W
ClientSampleId :
RICH-REC-ROAD-STONE-7

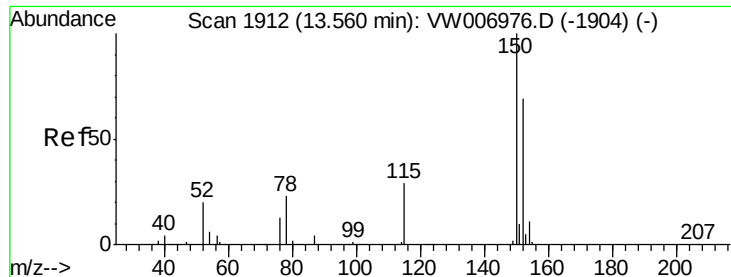
Tot Ion:117 Resp: 173660
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.2
119 33.5 25.9 38.9



#68
m/p-Xylenes
Concen: 1.432 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

Tgt Ion:106 Resp: 3741
Ion Ratio Lower Upper
106 100
91 202.5 164.8 247.2



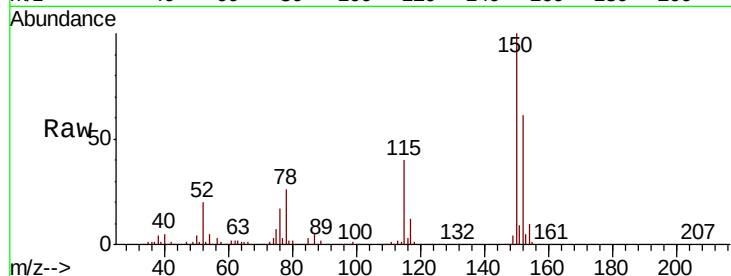


#72

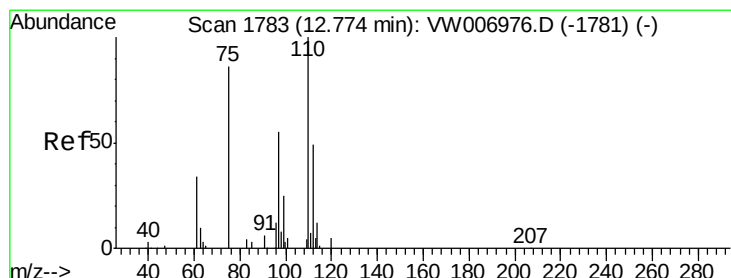
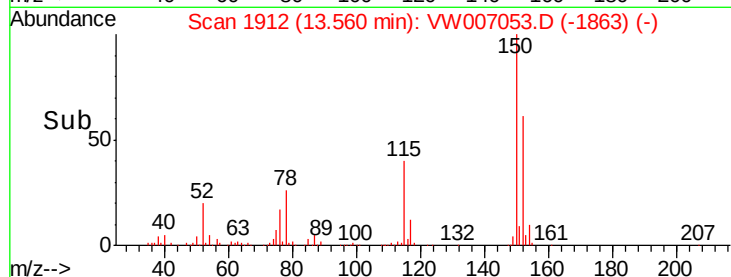
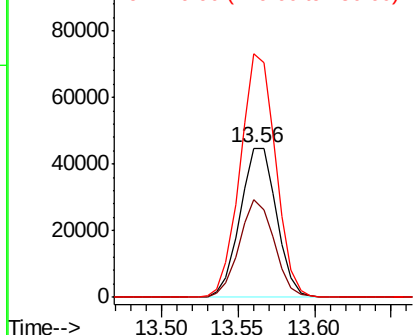
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
RICH-REC-ROAD-STONE-7

Tot Ion:152 Resp: 74027
Ion Ratio Lower Upper
152 100
115 62.5 31.4 94.2
150 158.9 0.0 353.4



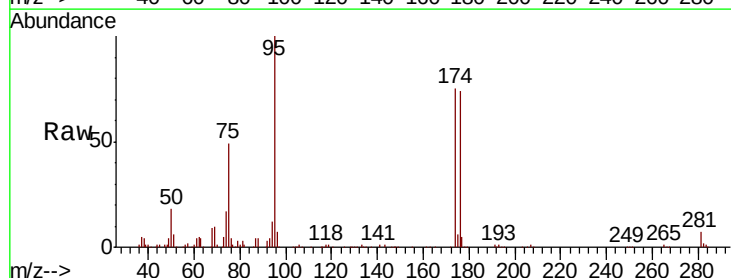
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



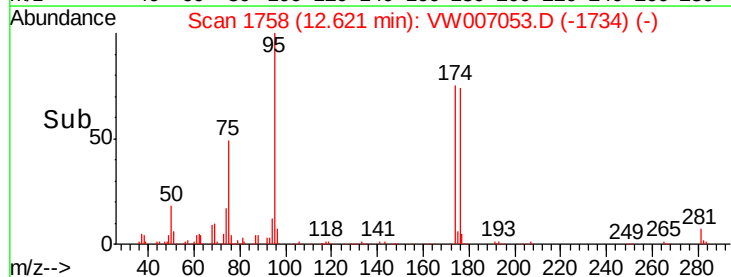
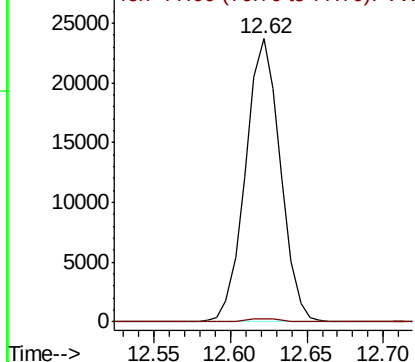
#76

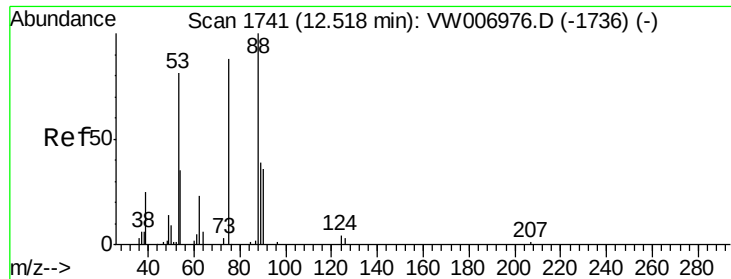
1,2,3-Trichloropropane
Concen: 64.484 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

Tgt Ion: 75 Resp: 37510
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



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

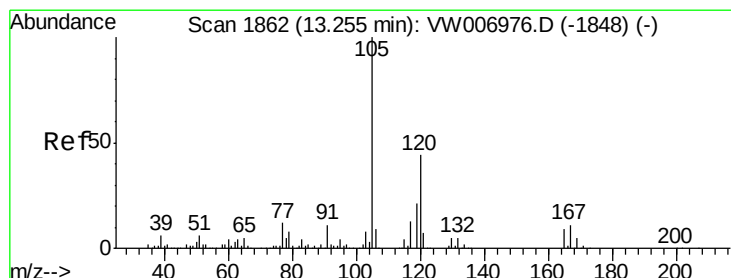
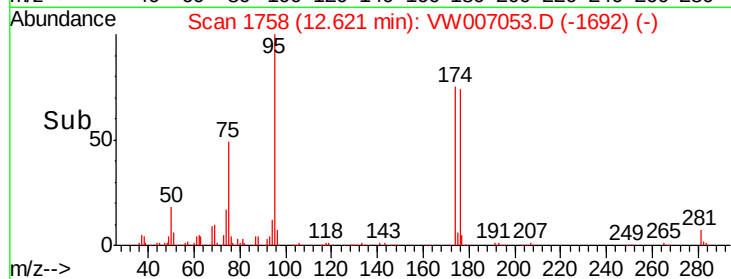
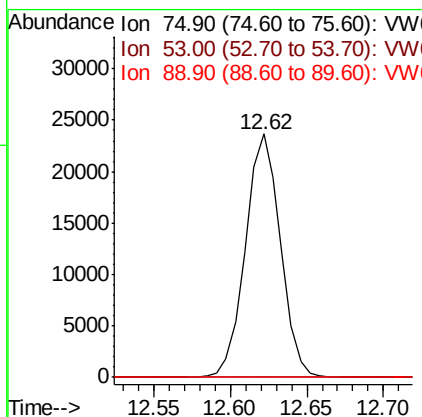
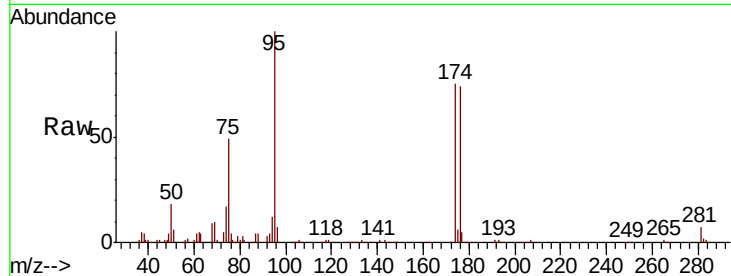




#81
trans-1,4-Dichloro-2-butene
Concen: 161.892 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

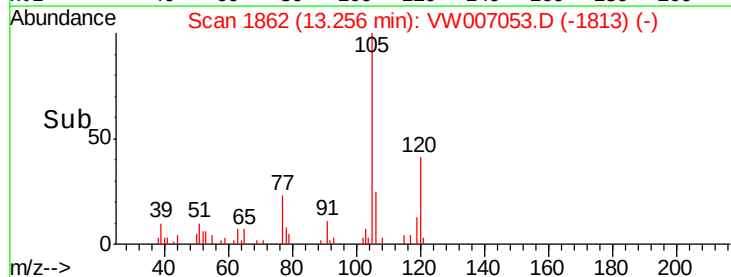
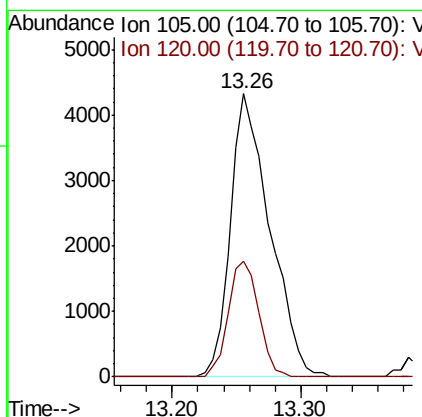
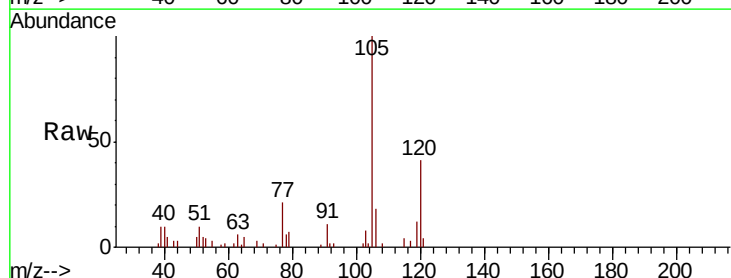
Instrument :
MSVOA_W
ClientSampleId :
RICH-REC-ROAD-STONE-7

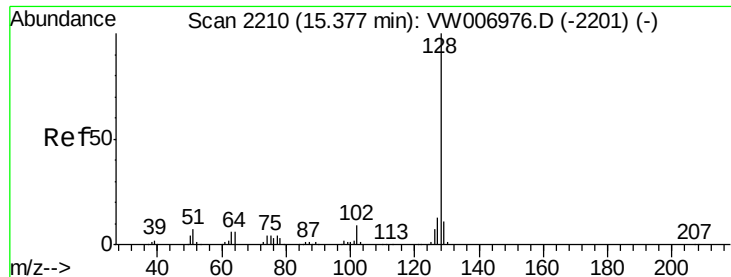
Tot Ion: 75 Resp: 37510
Ion Ratio Lower Upper
75 100
53 0.0 77.6 116.4#
89 0.0 39.3 58.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.860 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW007053.D
Acq: 26 Nov 2018 17:41

Tgt Ion: 105 Resp: 9222
Ion Ratio Lower Upper
105 100
120 31.6 21.8 65.3





#95
 Naphthalene
 Concen: 1.292 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.00 min
 Lab File: VW007053.D
 Acq: 26 Nov 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 RICH-REC-ROAD-STONE-7

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	10.8	8.7	13.1

