

Data File : VW012005.D
Acq On : 19 Aug 2019 22:11
Operator : SY/VA
Sample : K4380-01RE
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
STOCKPILE-175-LANDERS-PIT

Quant Time: Aug 20 05:15:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	307854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	502799	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	415286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	162836	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	171903	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	7.88	113	147369	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
50) Toluene-d8	10.32	98	619468	53.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.28%	
62) 4-Bromofluorobenzene	12.62	95	218857	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	

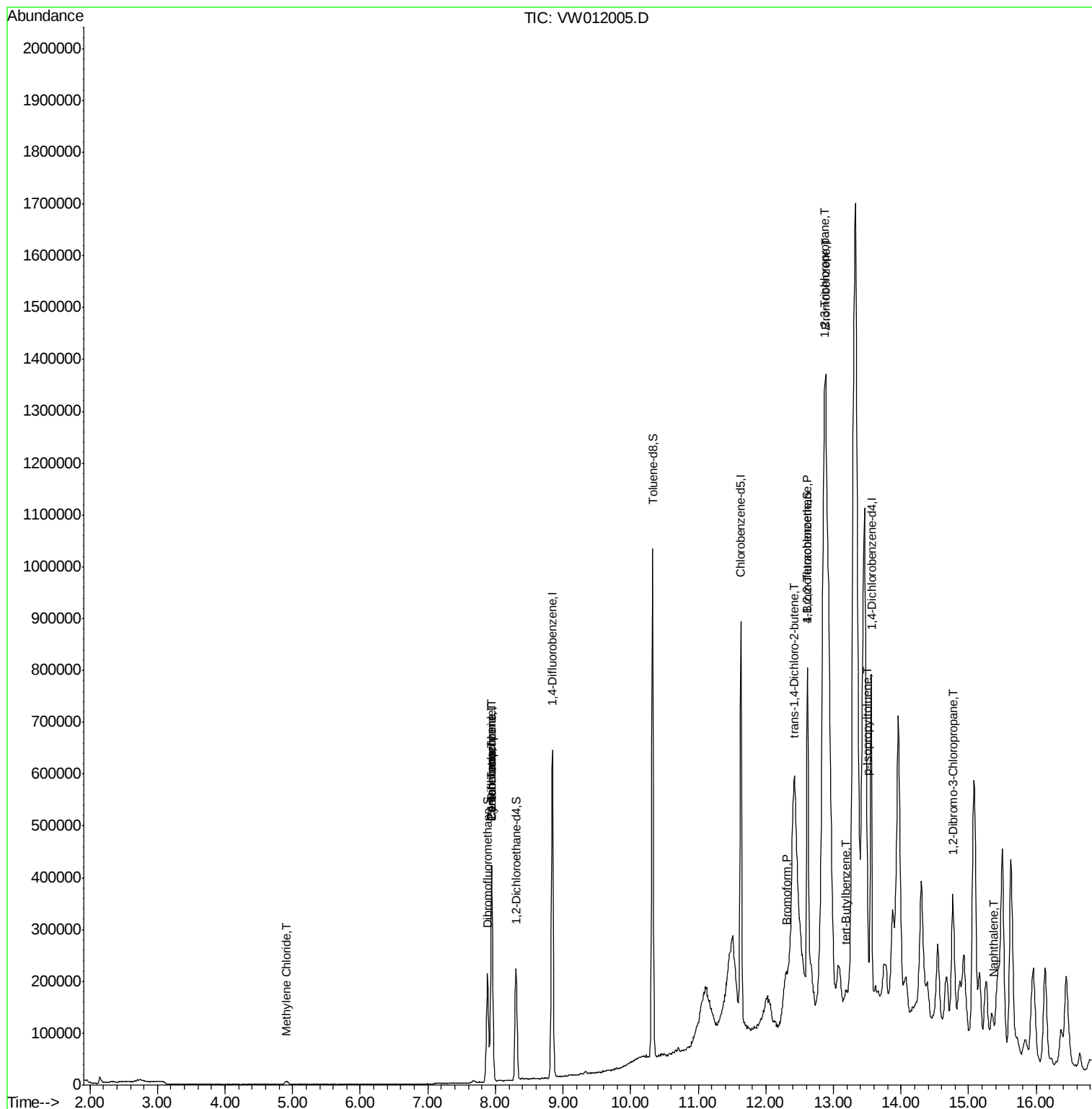
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.18	59	353	Below Cal	#	88
20) Methylene Chloride	4.91	84	4739	1.222	ug/l	93
31) Cyclohexane	7.95	56	7647	1.157	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	25799	4.935	ug/l #	53
38) Carbon Tetrachloride	7.95	117	30031	6.710	ug/l #	16
71) Bromoform	12.32	173	11264	7.596	ug/l #	30
75) 1,1,2,2-Tetrachloroethane	12.62	83	13009	5.693	ug/l #	21
76) 1,2,3-Trichloropropane	12.87	75	71488	41.491	ug/l #	100
77) Bromobenzene	12.88	156	1971727	734.331	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.41	75	35529	47.523	ug/l #	20
83) tert-Butylbenzene	13.18	119	14154	1.662	ug/l #	39
86) p-Isopropyltoluene	13.50	119	14685	1.332	ug/l #	50
92) 1,2-Dibromo-3-Chloropropan	14.76	75	2007	5.151	ug/l	95
95) Naphthalene	15.37	128	6240	2.997	ug/l #	68

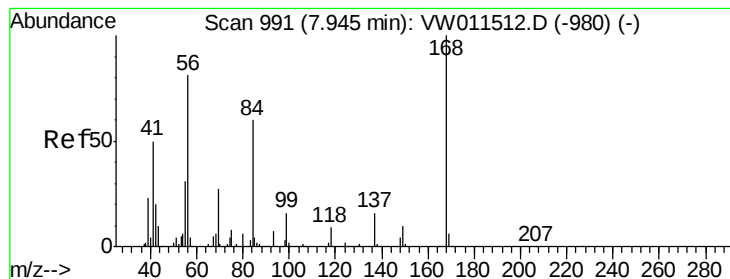
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

MSVOA_W

ClientSampleId :

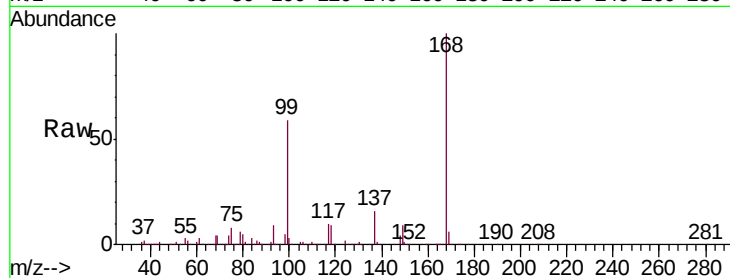
STOCKPILE-175-LANDERS-PIT

Tgt Ion:168 Resp: 307854

Ion Ratio Lower Upper

168 100

99 58.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

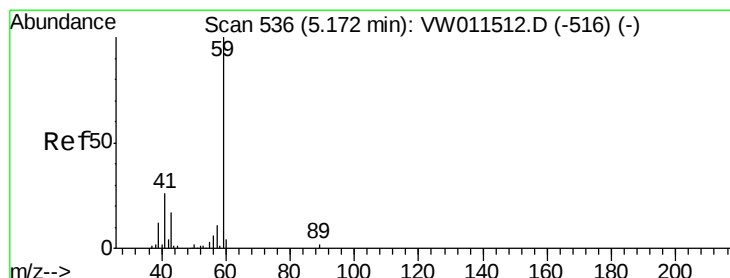
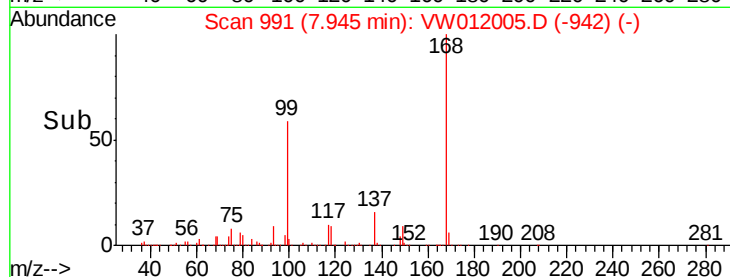
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012005.D

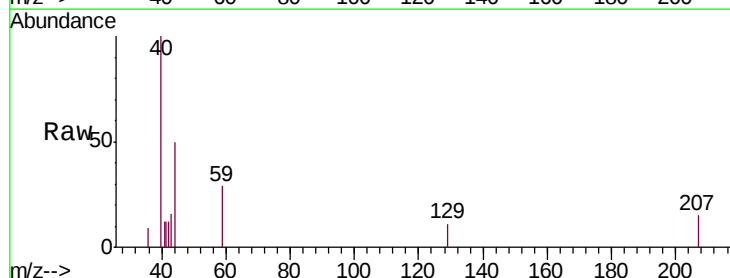
Acq: 19 Aug 2019 22:11

Tgt Ion: 59 Resp: 353

Ion Ratio Lower Upper

59 100

57 5.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

150

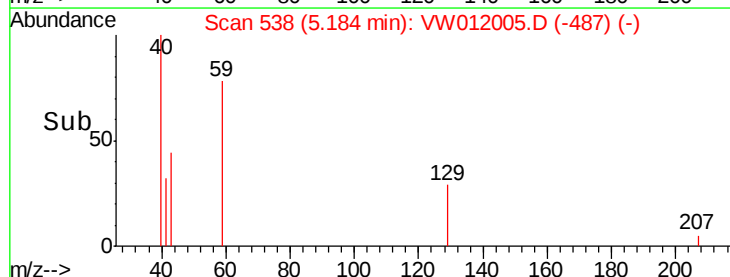
100

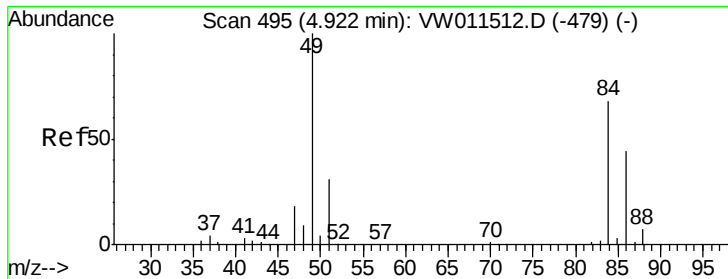
50

0

5.15 5.20

Time-->

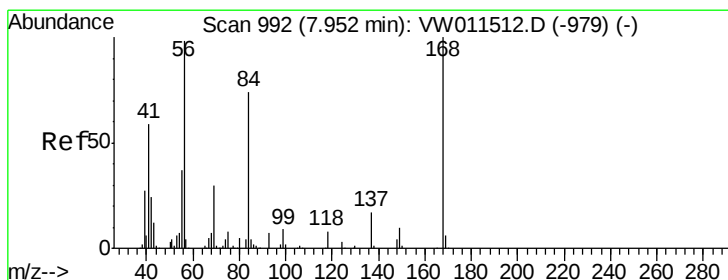
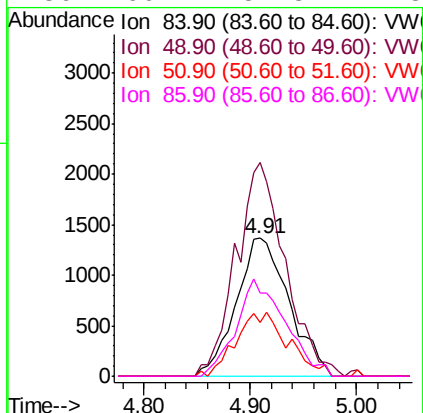
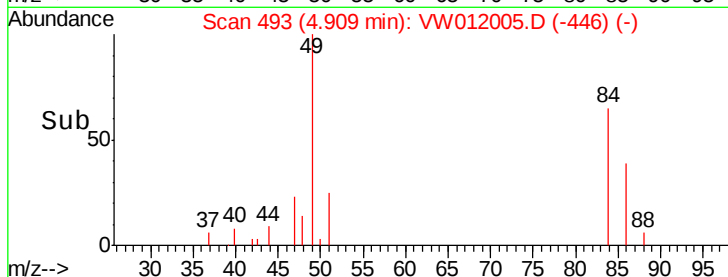
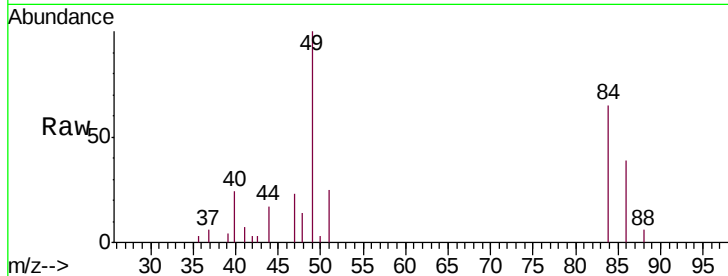




#20
Methylene Chloride
Concen: 1.222 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

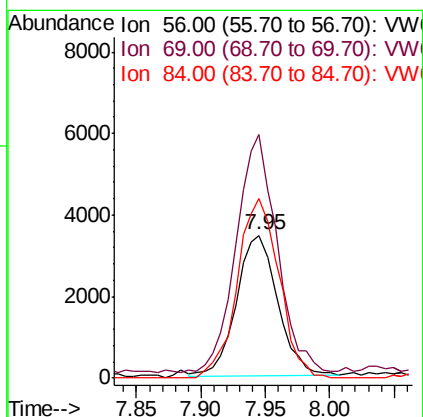
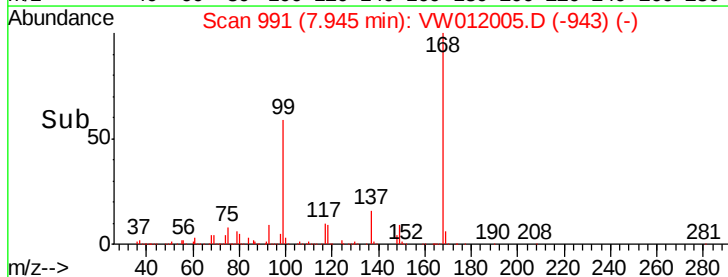
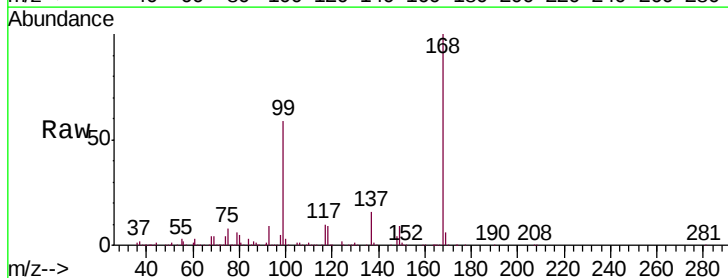
Instrument :
MSVOA_W
ClientSampleId :
STOCKPILE-175-LANDERS-PIT

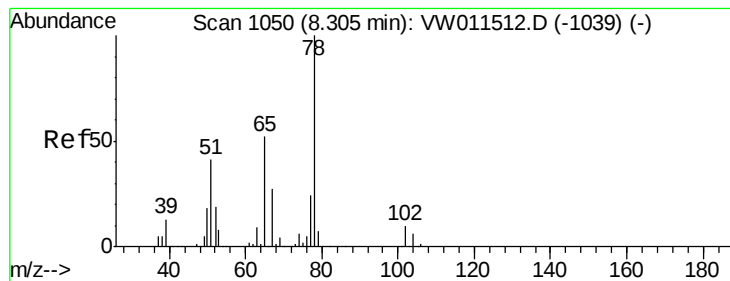
Tgt Ion: 84 Resp: 4739
Ion Ratio Lower Upper
84 100
49 154.9 117.8 176.6
51 39.0 37.0 55.4
86 60.4 51.8 77.8



#31
Cyclohexane
Concen: 1.157 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

Tgt Ion: 56 Resp: 7647
Ion Ratio Lower Upper
56 100
69 169.4 24.3 36.5#
84 129.0 60.4 90.6#





#33

1,2-Dichloroethane-d4

Concen: 48.629 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

MSVOA_W

ClientSampleId :

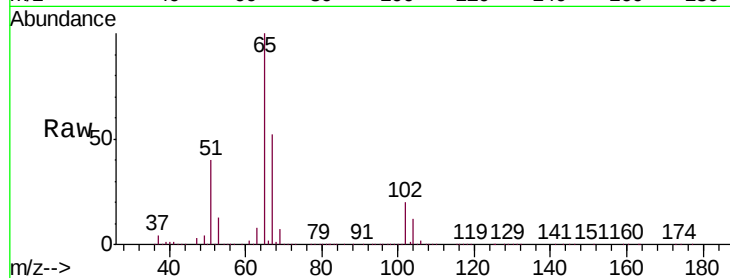
STOCKPILE-175-LANDERS-PIT

Tgt Ion: 65 Resp: 171903

Ion Ratio Lower Upper

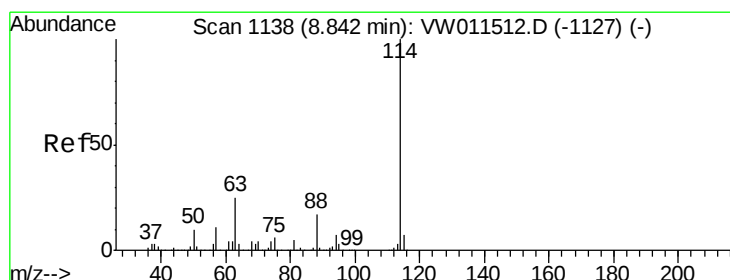
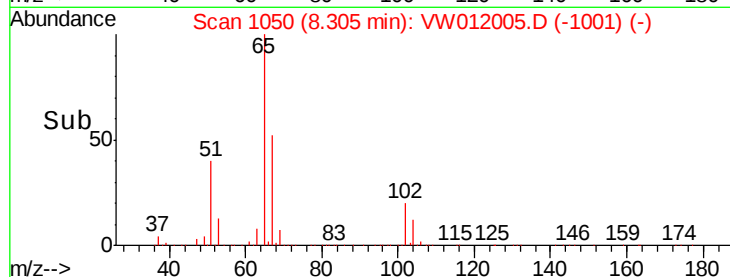
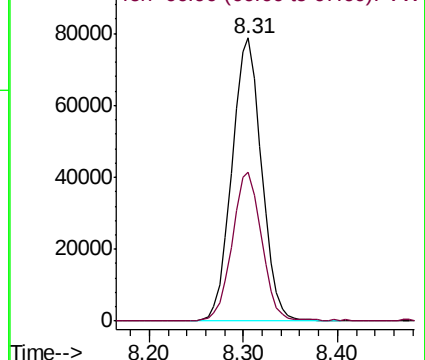
65 100

67 52.0 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

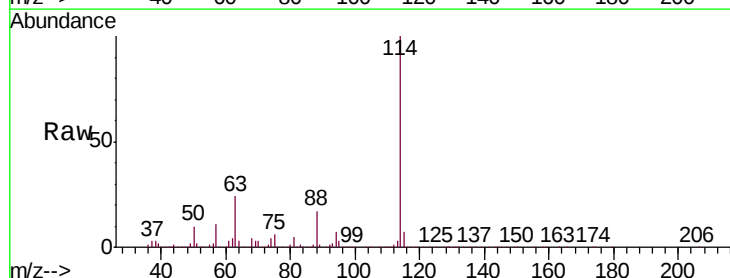
Tgt Ion: 114 Resp: 502799

Ion Ratio Lower Upper

114 100

63 24.0 0.0 49.2

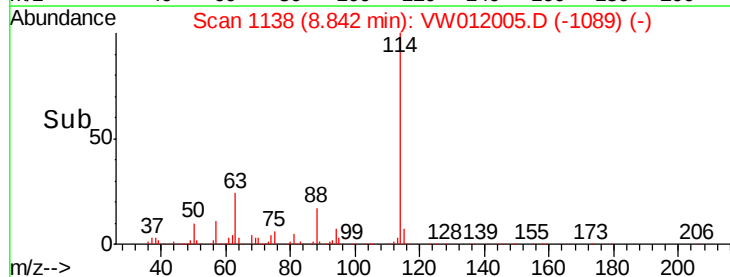
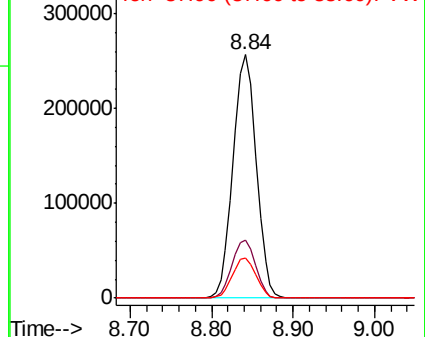
88 16.5 0.0 33.8

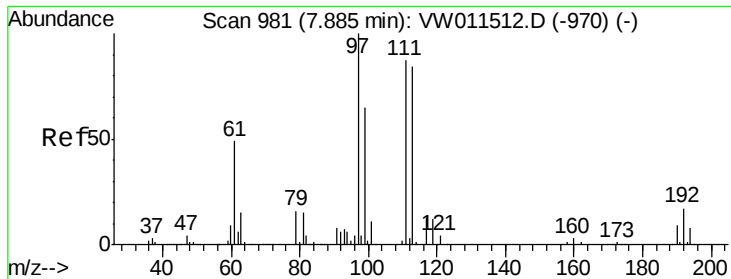


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 52.244 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

MSVOA_W

ClientSampleId :

STOCKPILE-175-LANDERS-PIT

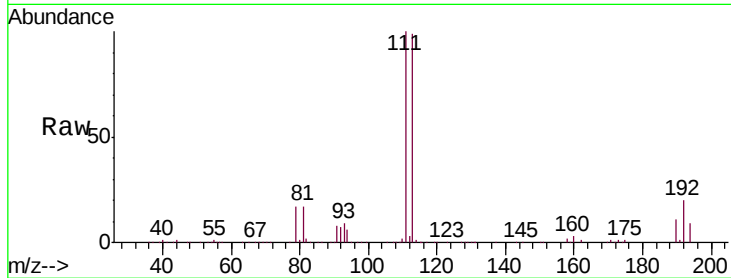
Tgt Ion:113 Resp: 147369

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

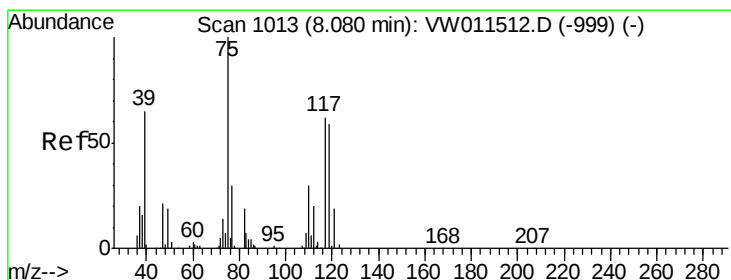
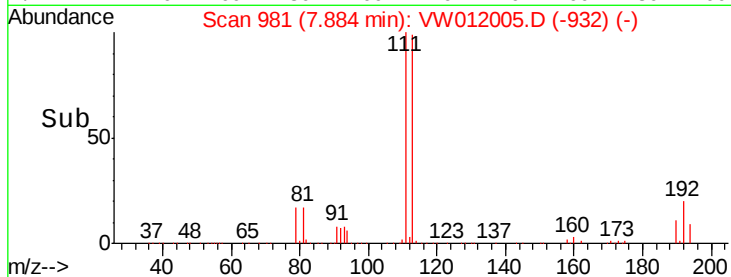
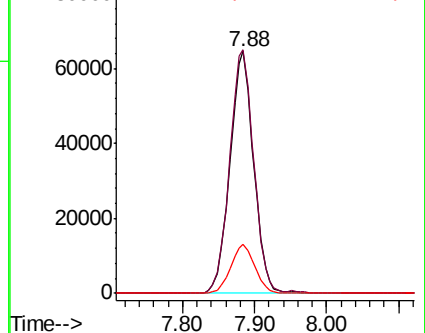
192 20.4 16.1 24.1



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: 4.935 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

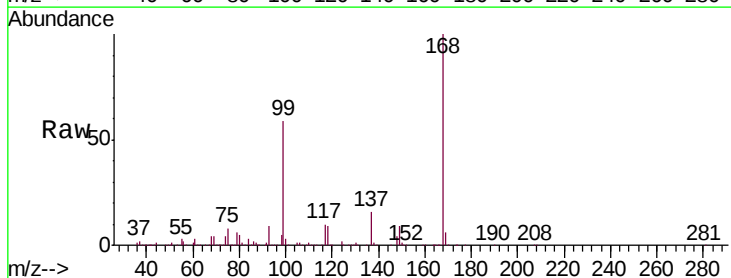
Tgt Ion: 75 Resp: 25799

Ion Ratio Lower Upper

75 100

110 9.0 15.6 46.8#

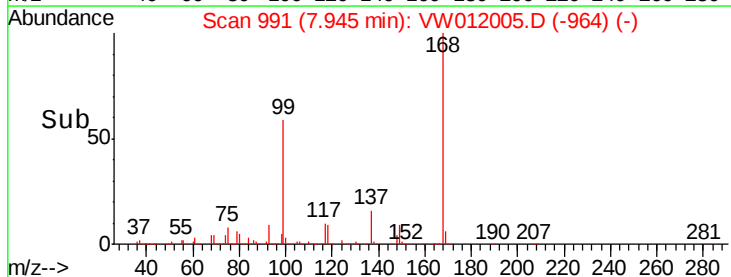
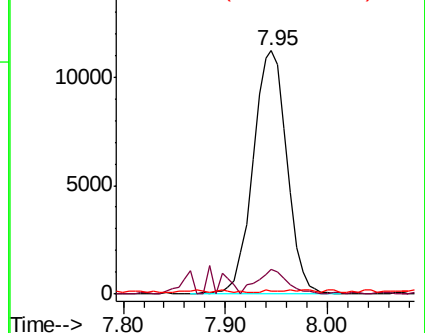
77 0.5 24.3 36.5#

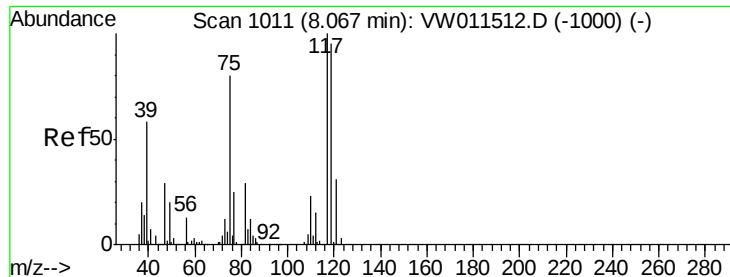


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

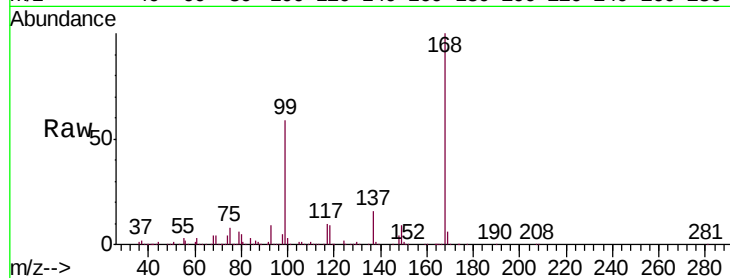




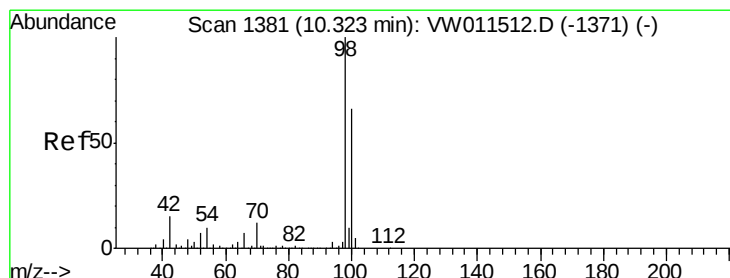
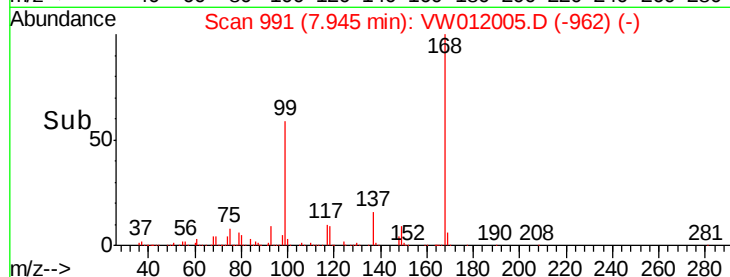
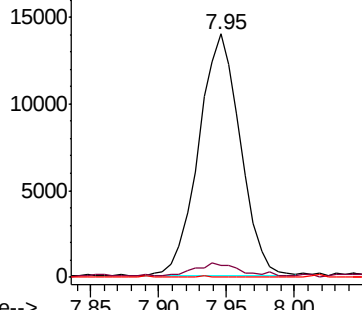
#38
Carbon Tetrachloride
Concen: 6.710 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

Instrument :
MSVOA_W
ClientSampleId :
STOCKPILE-175-LANDERS-PIT

Tgt Ion: 117 Resp: 30031
Ion Ratio Lower Upper
117 100
119 4.0 75.8 113.6#
121 0.0 24.7 37.1#

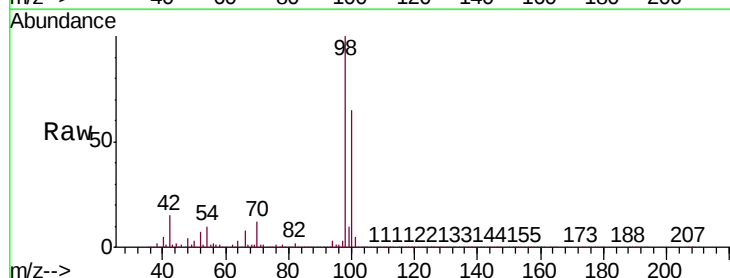


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

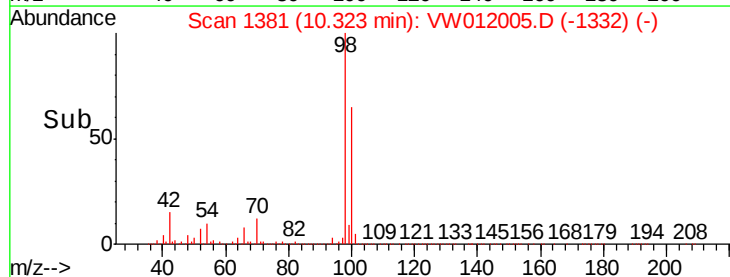
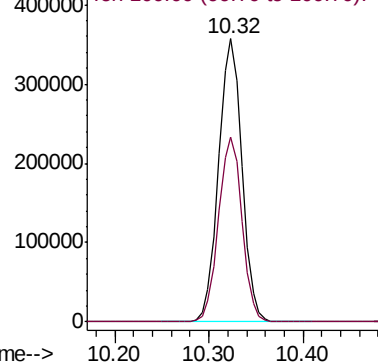


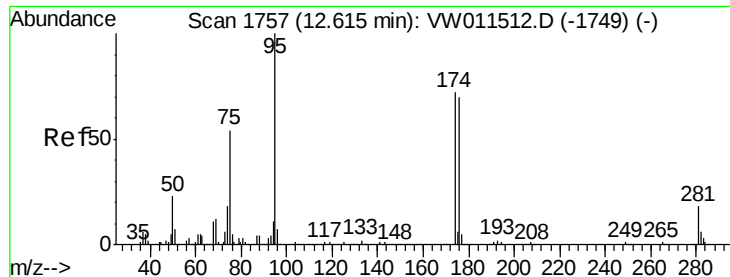
#50
Toluene-d8
Concen: 53.638 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

Tgt Ion: 98 Resp: 619468
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 53.153 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

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ClientSampleId :

STOCKPILE-175-LANDERS-PIT

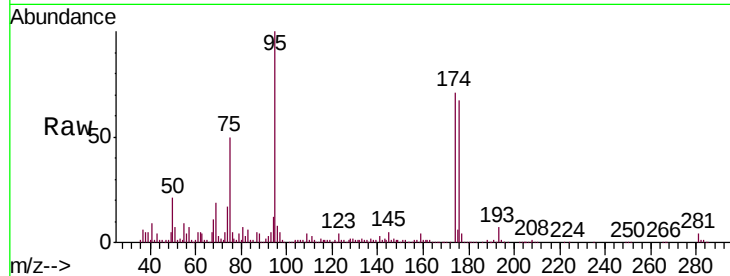
Tgt Ion: 95 Resp: 218857

Ion Ratio Lower Upper

95 100

174 70.7 0.0 150.2

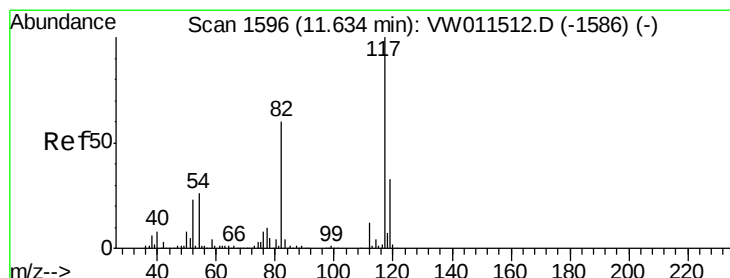
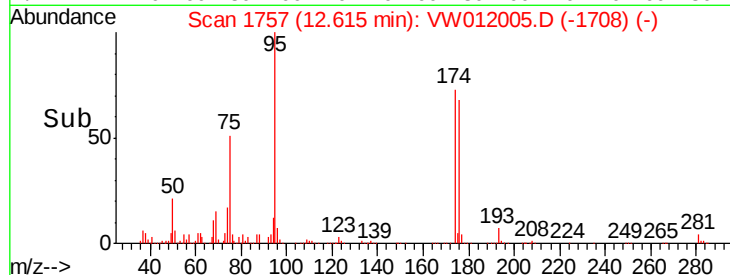
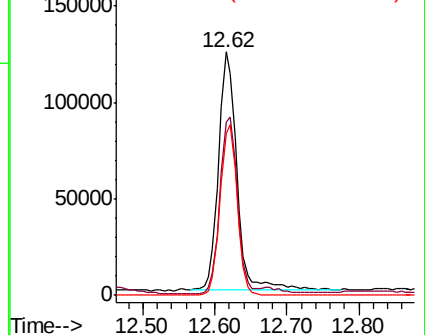
176 66.1 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

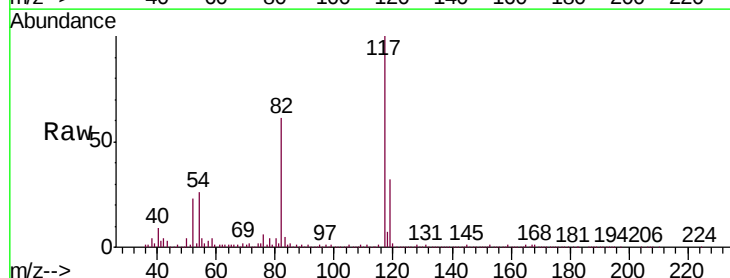
Tgt Ion: 117 Resp: 415286

Ion Ratio Lower Upper

117 100

82 60.6 47.9 71.9

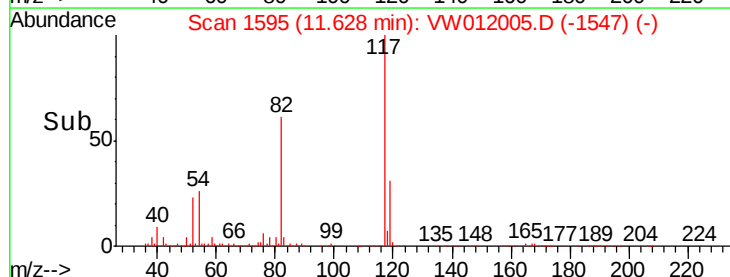
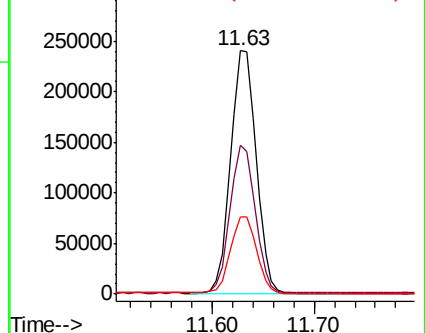
119 31.4 26.2 39.2

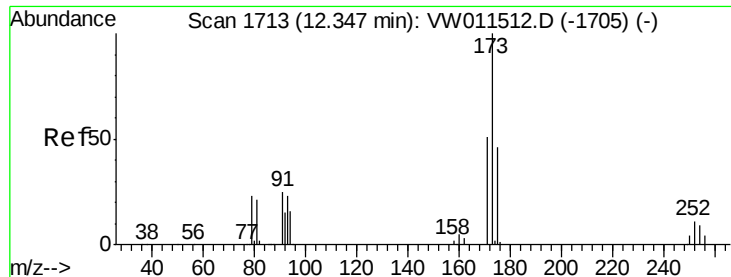


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#71

Bromoform

Concen: 7.596 ug/l

RT: 12.32 min Scan# 1708

Delta R.T. -0.03 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

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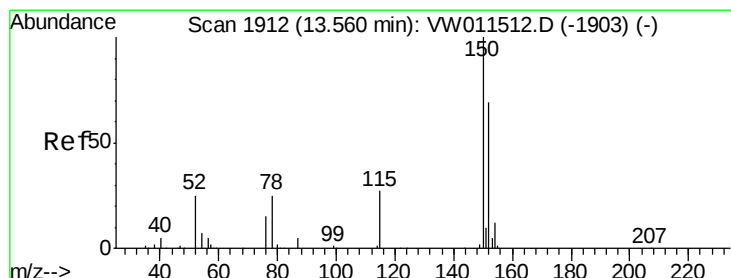
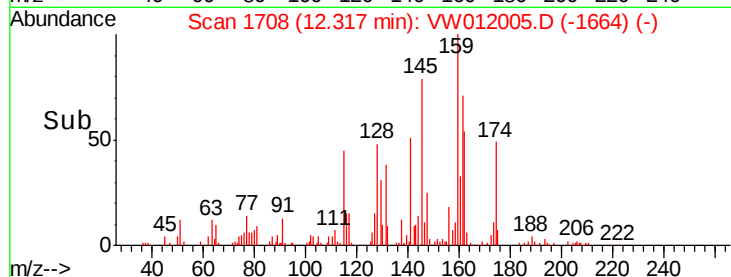
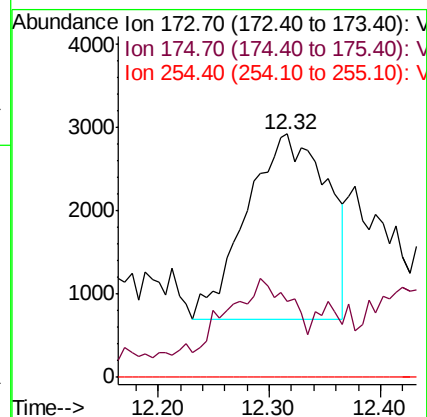
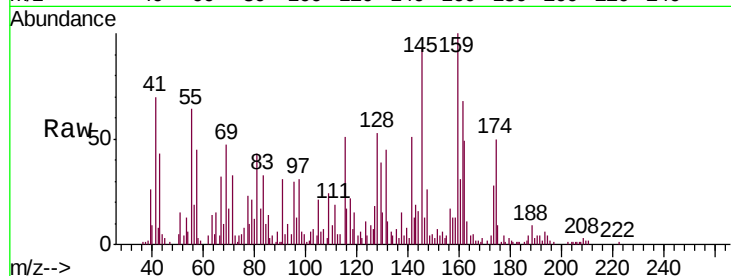
Tgt Ion:173 Resp: 11264

Ion Ratio Lower Upper

173 100

175 0.0 23.6 71.0#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

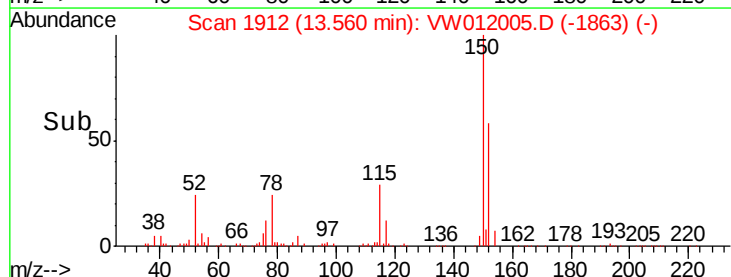
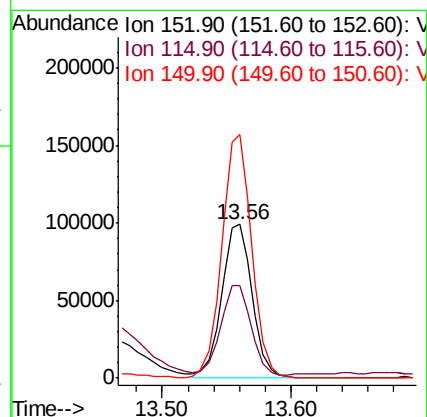
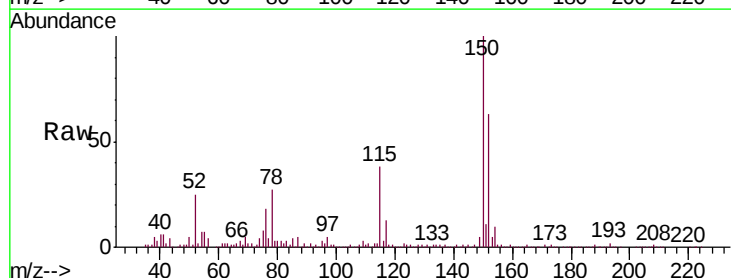
Tgt Ion:152 Resp: 162836

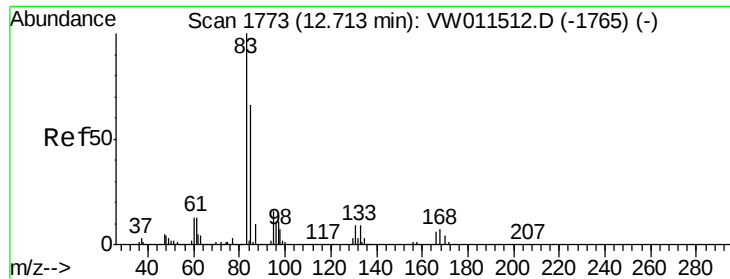
Ion Ratio Lower Upper

152 100

115 57.7 30.5 91.5

150 156.1 0.0 352.6





#75

1,1,2,2-Tetrachloroethane

Concen: 5.693 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.09 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

MSVOA_W

ClientSampleId :

STOCKPILE-175-LANDERS-PIT

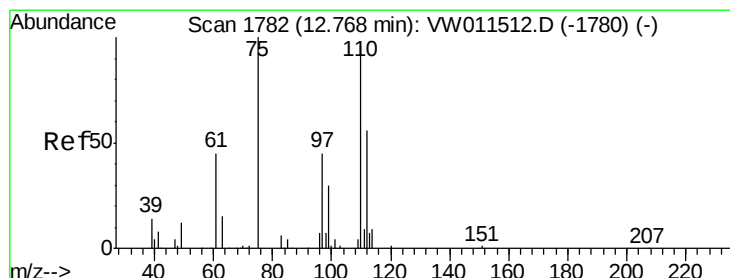
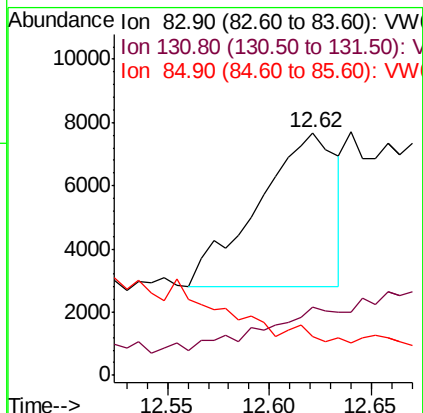
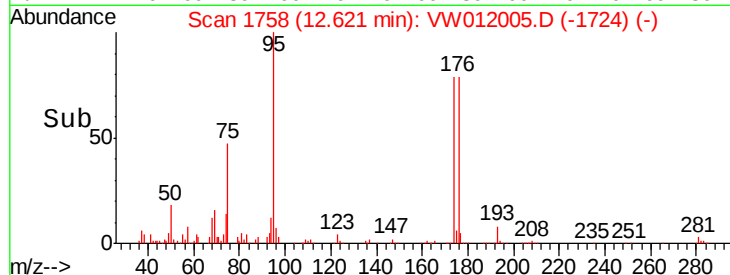
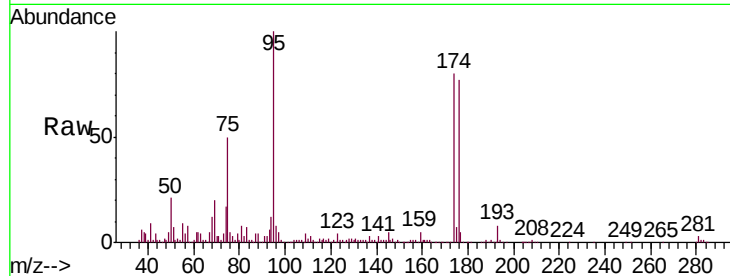
Tgt Ion: 83 Resp: 13009

Ion Ratio Lower Upper

83 100

131 33.7 4.9 14.6#

85 0.0 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 41.491 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.10 min

Lab File: VW012005.D

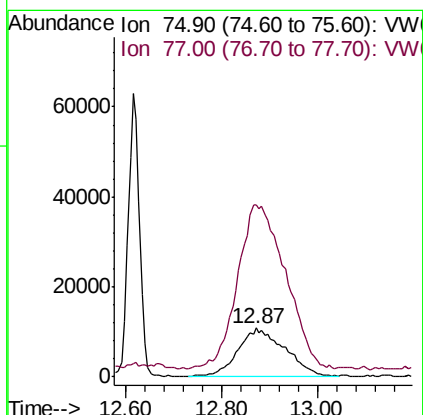
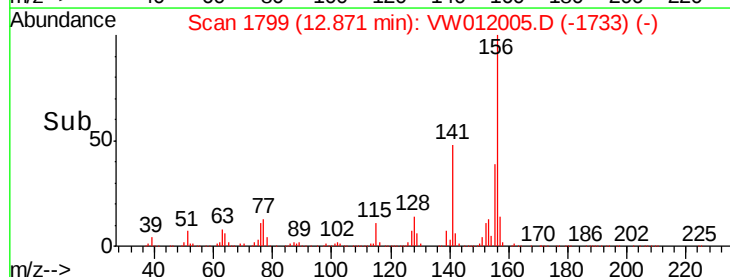
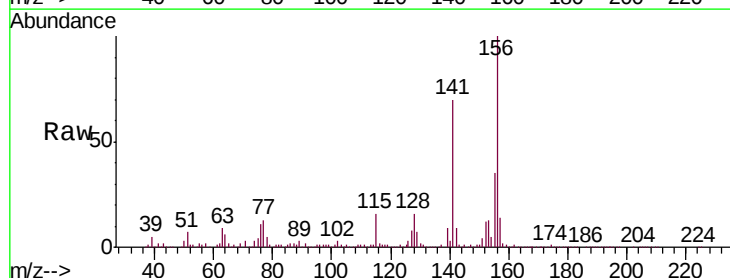
Acq: 19 Aug 2019 22:11

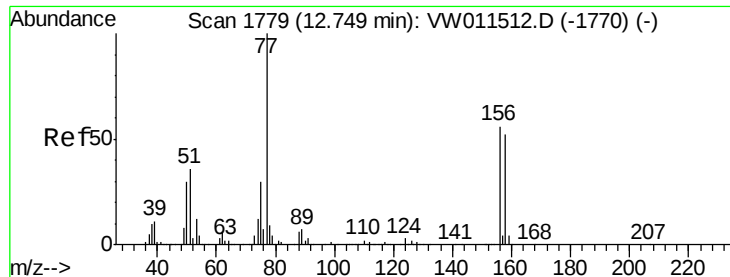
Tgt Ion: 75 Resp: 71488

Ion Ratio Lower Upper

75 100

77 355.9 0.0 0.0#





#77

Bromobenzene

Concen: 734.331 ug/l

RT: 12.88 min Scan# 1801

Delta R.T. 0.13 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

Instrument :

MSVOA_W

ClientSampleId :

STOCKPILE-175-LANDERS-PIT

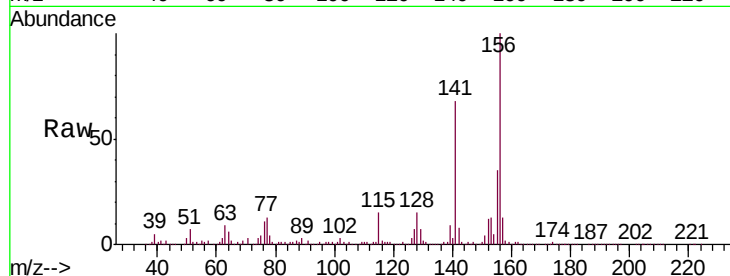
Tgt Ion:156 Resp: 1971727

Ion Ratio Lower Upper

156 100

77 12.9 106.5 319.4#

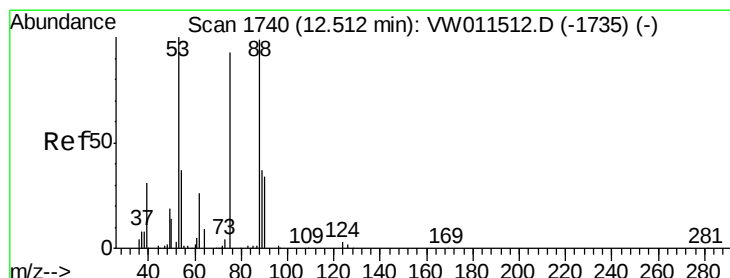
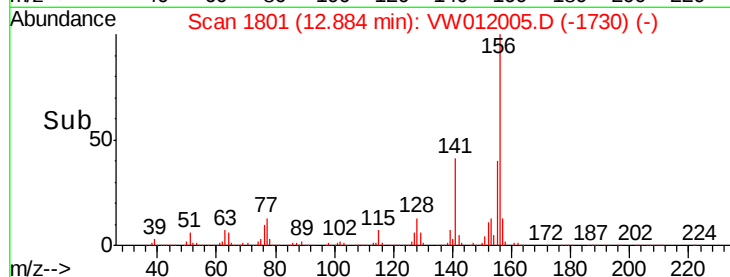
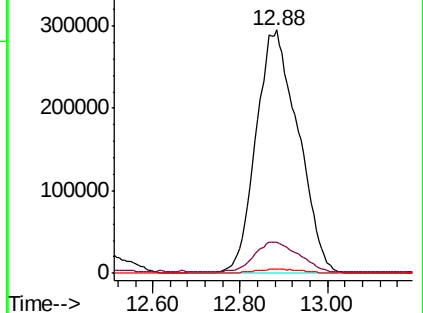
158 1.8 48.0 144.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 47.523 ug/l

RT: 12.41 min Scan# 1723

Delta R.T. -0.10 min

Lab File: VW012005.D

Acq: 19 Aug 2019 22:11

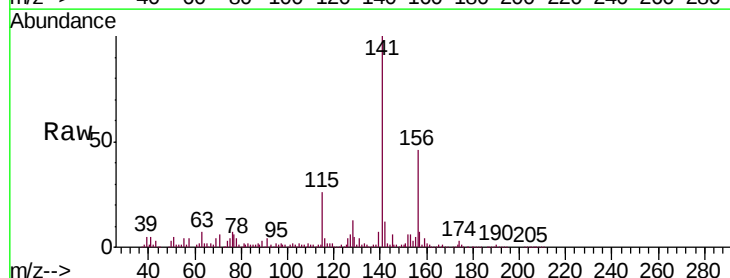
Tgt Ion: 75 Resp: 35529

Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

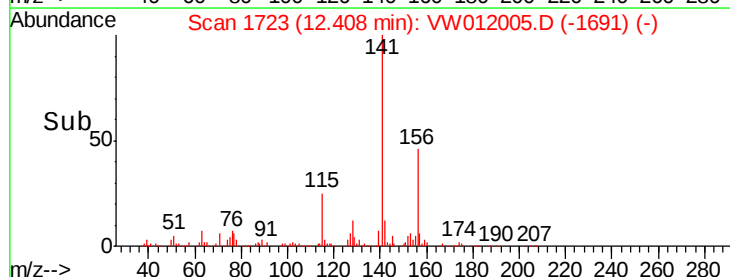
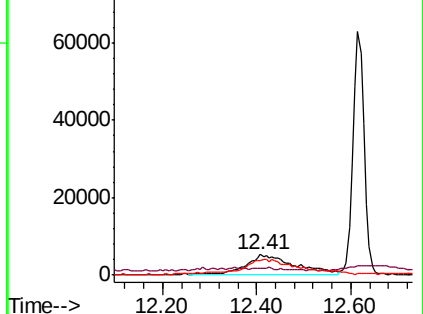
89 31.5 35.3 52.9#

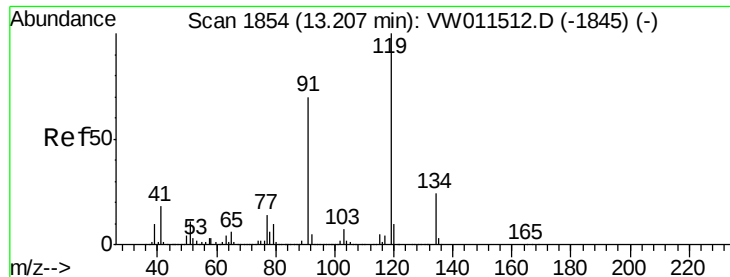


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

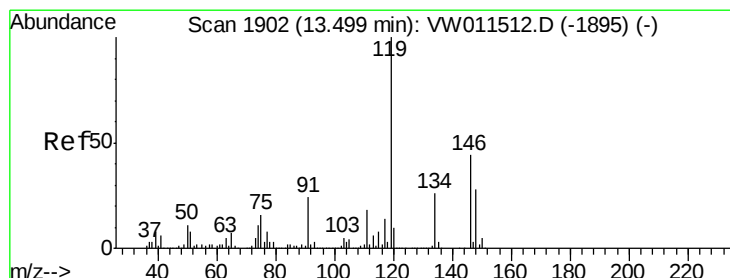
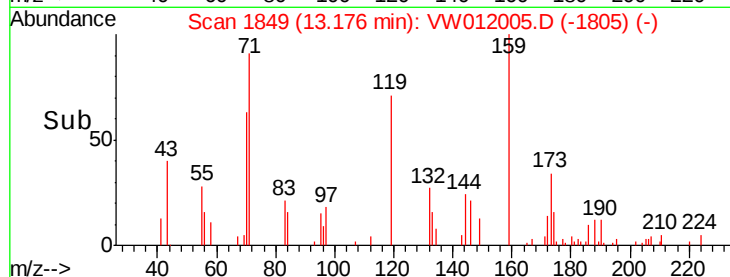
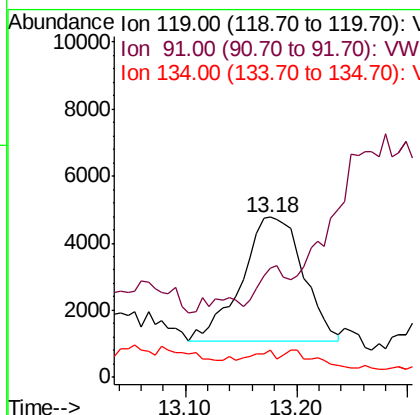
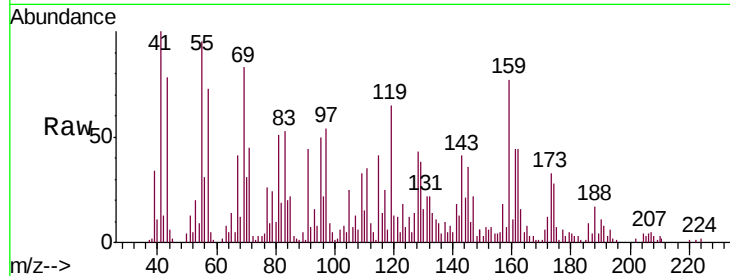




#83
tert-Butylbenzene
Concen: 1.662 ug/l
RT: 13.18 min Scan# 1849
Delta R.T. -0.03 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

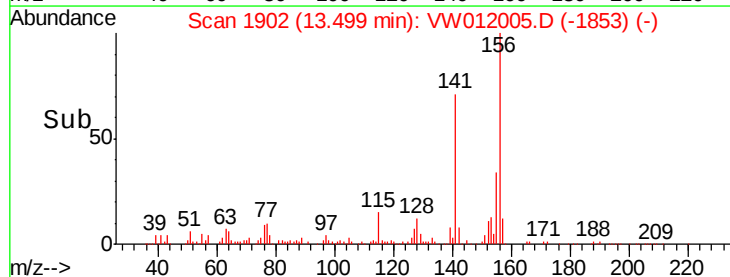
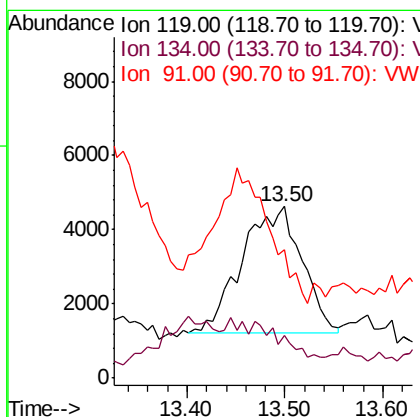
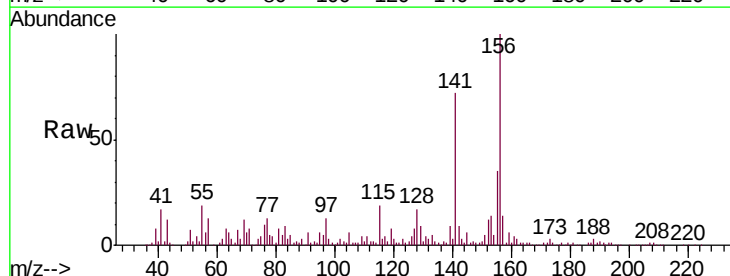
Instrument :
MSVOA_W
ClientSampleId :
STOCKPILE-175-LANDERS-PIT

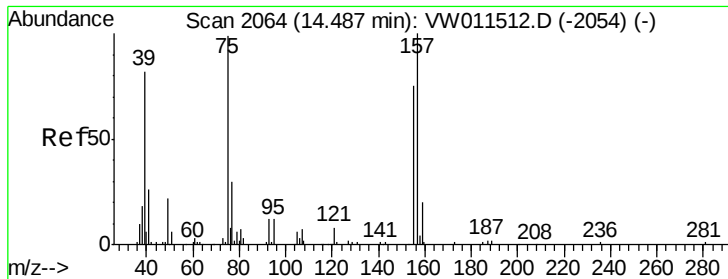
Tgt Ion:119 Resp: 14154
Ion Ratio Lower Upper
119 100
91 14.6 34.5 103.6#
134 2.3 12.4 37.4#



#86
p-Isopropyltoluene
Concen: 1.332 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW012005.D
Acq: 19 Aug 2019 22:11

Tgt Ion:119 Resp: 14685
Ion Ratio Lower Upper
119 100
134 0.0 12.8 38.4#
91 0.0 12.1 36.3#

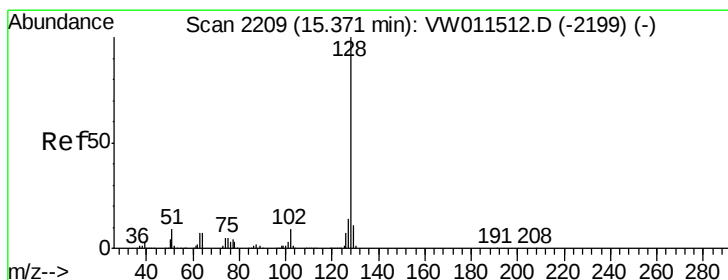
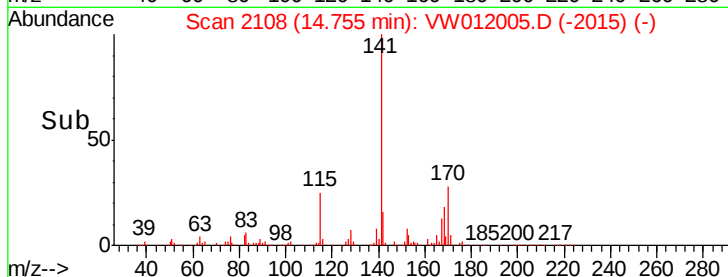
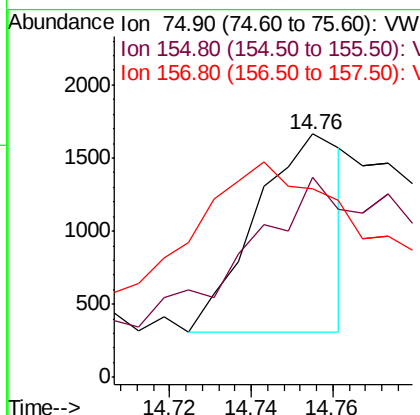
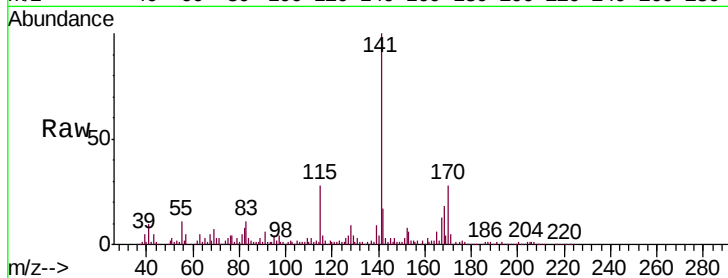




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.151 ug/l
 RT: 14.76 min Scan# 2108
 Delta R.T. 0.27 min
 Lab File: VW012005.D
 Acq: 19 Aug 2019 22:11

Instrument :
 MSVOA_W
 ClientSampleId :
 STOCKPILE-175-LANDERS-PIT

Tgt Ion: 75 Resp: 2007
 Ion Ratio Lower Upper
 75 100
 155 78.6 38.2 114.6
 157 91.6 48.9 146.7



#95
 Naphthalene
 Concen: 2.997 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW012005.D
 Acq: 19 Aug 2019 22:11

Tgt Ion: 128 Resp: 6240
 Ion Ratio Lower Upper
 128 100
 127 16.3 10.6 16.0#
 129 34.5 8.6 13.0#

