

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY013020\
 Data File : VY001430.D
 Acq On : 30 Jan 2020 15:15
 Operator : SY/MD
 Sample : L1319-04
 Misc : 5.59G/5ML/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RAINEY-PARK-BH-06-C

Quant Time: Jan 30 15:33:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	51679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	92733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	77033	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	33183	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.17	65	27740	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
35) Dibromofluoromethane	7.75	113	26339	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
50) Toluene-d8	10.19	98	106274	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.49	95	37320	44.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.64%	

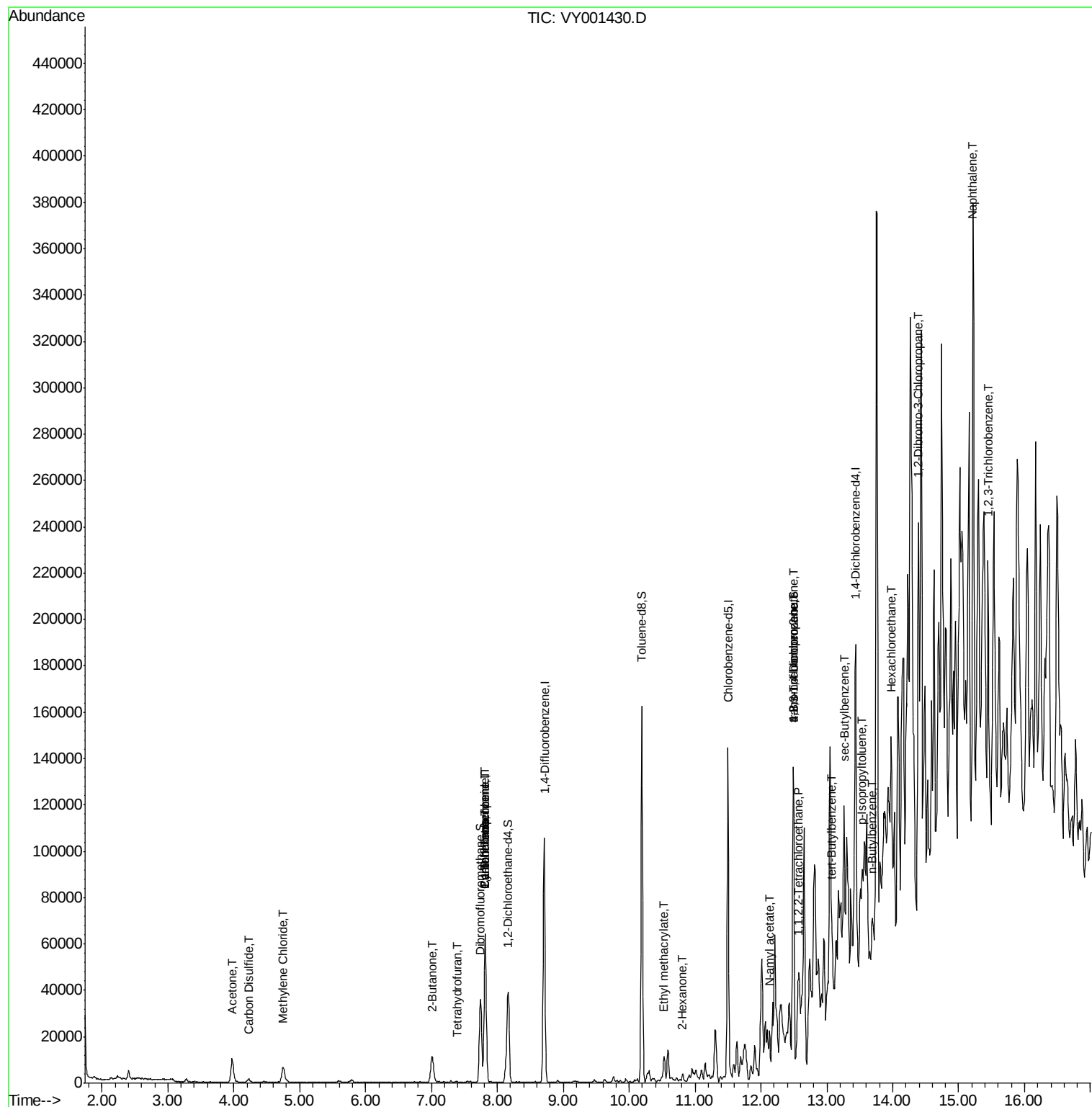
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	26	Below Cal	#	74
13) Acrolein	3.77	56	145	Below Cal	#	15
16) Acetone	3.97	43	18173	118.70	ug/l	100
17) Carbon Disulfide	4.22	76	2684	1.56	ug/l	99
20) Methylene Chloride	4.75	84	4445	2.36	ug/l	95
25) 2-Butanone	7.02	43	5492	22.44	ug/l	90
29) Tetrahydrofuran	7.38	42	243	1.53	ug/l #	62
31) Cyclohexane	7.81	56	1249	1.15	ug/l #	34
36) 1,1-Dichloropropene	7.82	75	3928	4.48	ug/l #	47
38) Carbon Tetrachloride	7.82	117	5170	6.62	ug/l #	14
56) Ethyl methacrylate	10.53	69	1111	1.40	ug/l #	1
59) 2-Hexanone	10.81	43	1780	4.77	ug/l #	24
74) N-amyl acetate	12.13	43	3446	4.02	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.56	83	2209	3.94	ug/l #	72
76) 1,2,3-Trichloropropane	12.49	75	17747	44.38	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	17747	83.99	ug/l #	18
83) tert-Butylbenzene	13.08	119	6817	3.70	ug/l	96
85) sec-Butylbenzene	13.26	105	35903	13.72	ug/l	82
86) p-Isopropyltoluene	13.53	119	20026	8.68	ug/l	93
89) n-Butylbenzene	13.68	91	2988	1.29	ug/l #	7
90) Hexachloroethane	13.98	117	1489	3.41	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.38	75	529	5.47	ug/l #	1
95) Naphthalene	15.21	128	4267	2.70	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.45	180	808	1.33	ug/l #	13

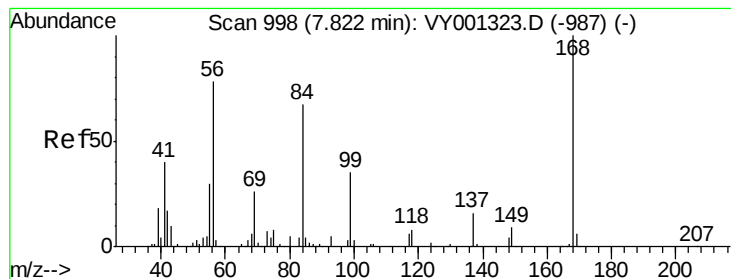
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

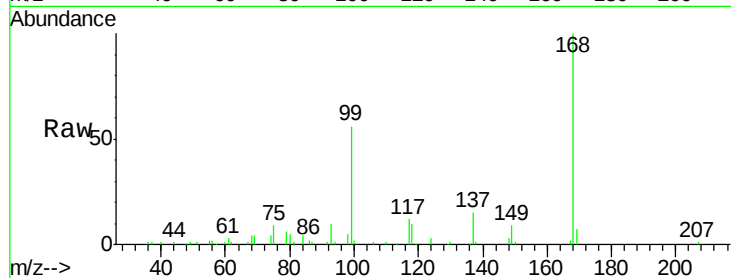
RAINEY-PARK-BH-06-C

Tgt Ion:168 Resp: 51679

Ion Ratio Lower Upper

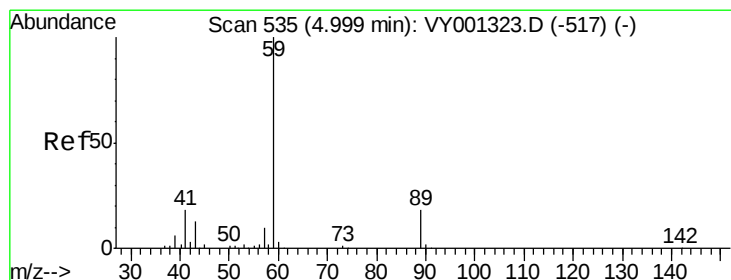
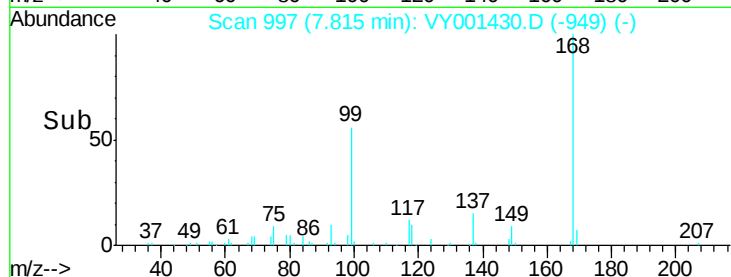
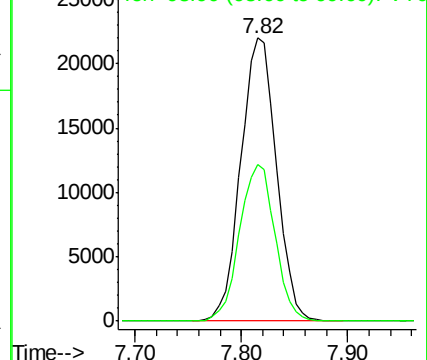
168 100

99 55.6 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001430.D (-949) (-)

Ion 98.90 (98.60 to 99.60): VY001430.D (-949) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.99 min Scan# 534

Delta R.T. -0.01 min

Lab File: VY001430.D

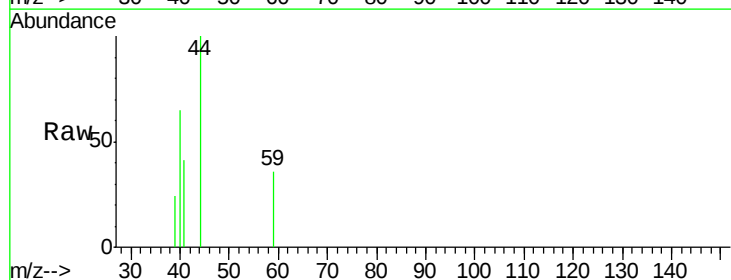
Acq: 30 Jan 2020 15:15

Tgt Ion: 59 Resp: 26

Ion Ratio Lower Upper

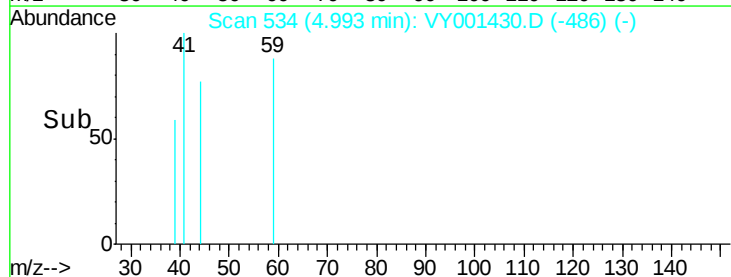
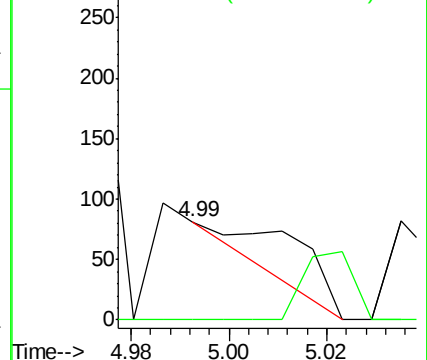
59 100

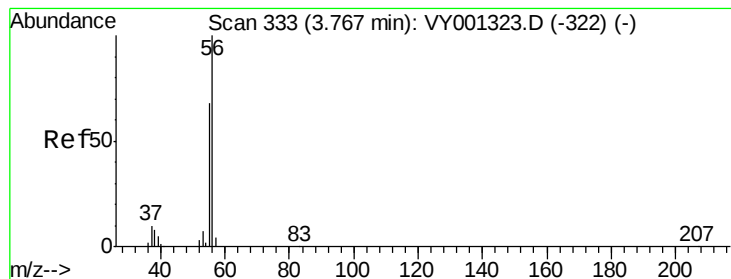
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001430.D (-486) (-)

Ion 57.00 (56.70 to 57.70): VY001430.D (-486) (-)





#13

Acrolein

Concen: Below Cal

RT: 3.77 min Scan# 333

Delta R.T. -0.00 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

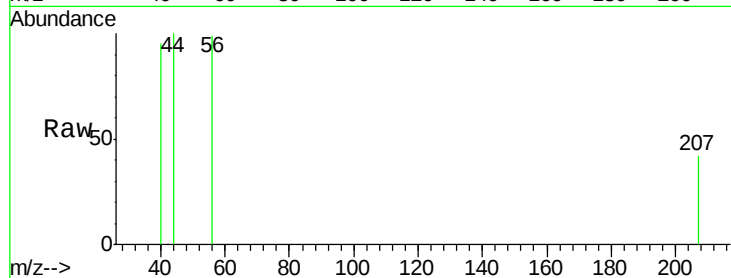
RAINEY-PARK-BH-06-C

Tgt Ion: 56 Resp: 145

Ion Ratio Lower Upper

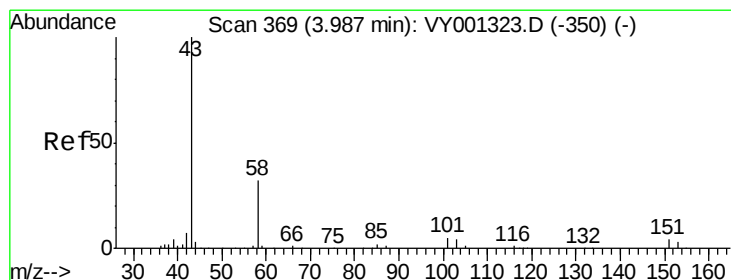
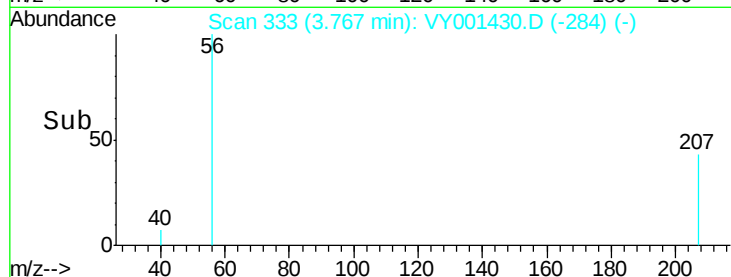
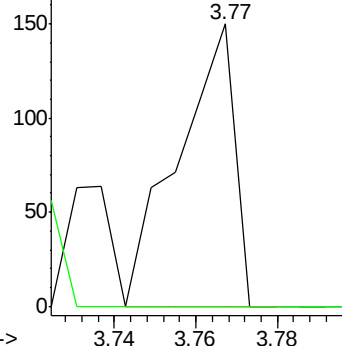
56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 118.70 ug/l

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VY001430.D

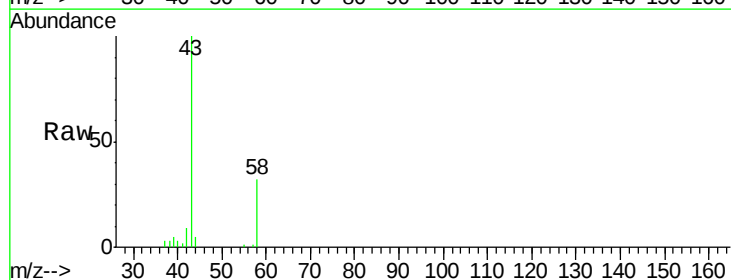
Acq: 30 Jan 2020 15:15

Tgt Ion: 43 Resp: 18173

Ion Ratio Lower Upper

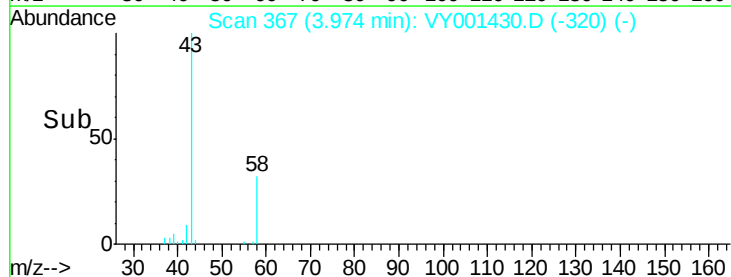
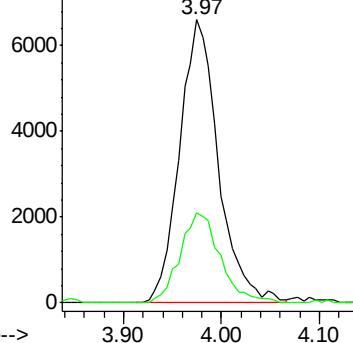
43 100

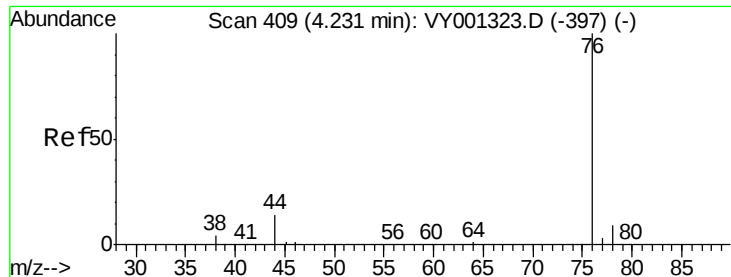
58 31.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#17

Carbon Disulfide

Concen: 1.56 ug/l

RT: 4.22 min Scan# 407

Delta R.T. -0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

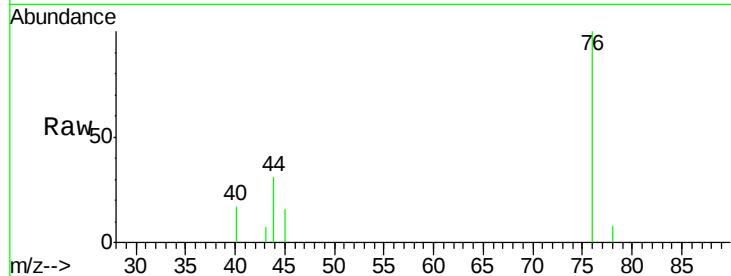
RAINEY-PARK-BH-06-C

Tgt Ion: 76 Resp: 2684

Ion Ratio Lower Upper

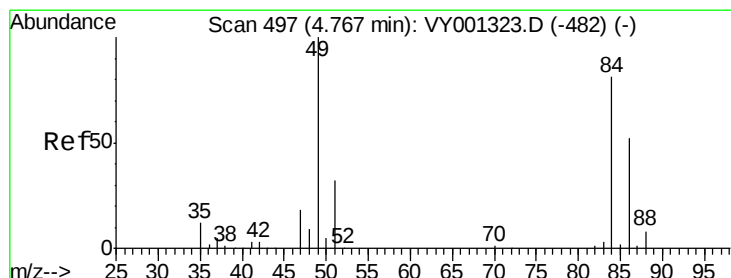
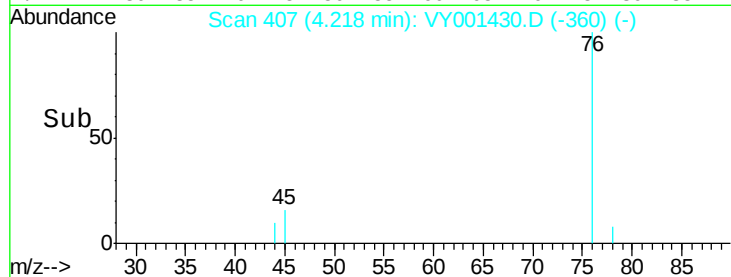
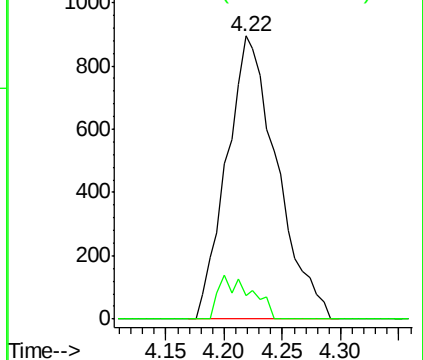
76 100

78 8.4 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#20

Methylene Chloride

Concen: 2.36 ug/l

RT: 4.75 min Scan# 495

Delta R.T. -0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Tgt Ion: 84 Resp: 4445

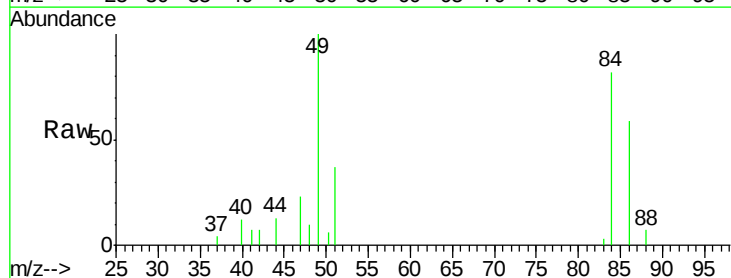
Ion Ratio Lower Upper

84 100

49 122.3 98.3 147.5

51 45.8 31.6 47.4

86 71.7 51.1 76.7

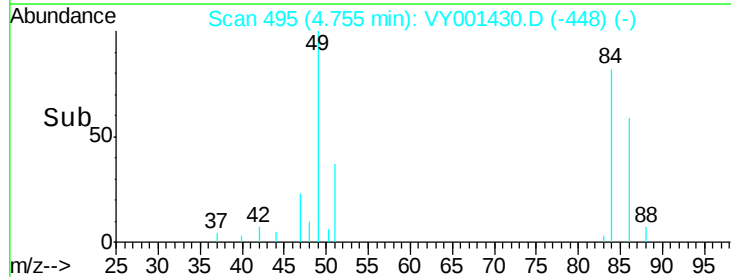
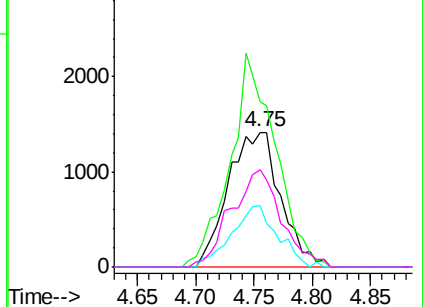


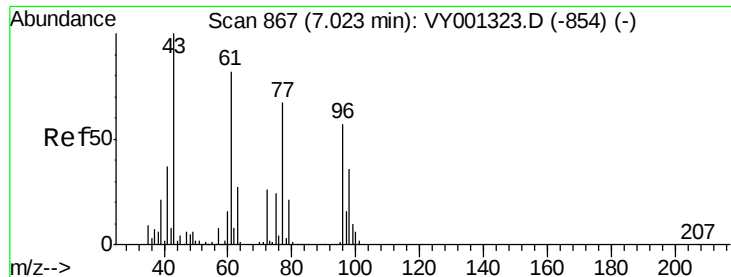
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0





#25

2-Butanone

Concen: 22.44 ug/l

RT: 7.02 min Scan# 867

Delta R.T. -0.00 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

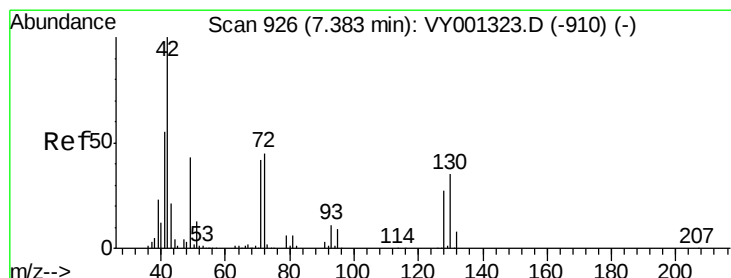
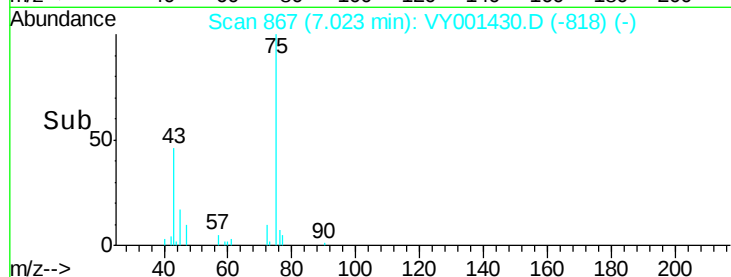
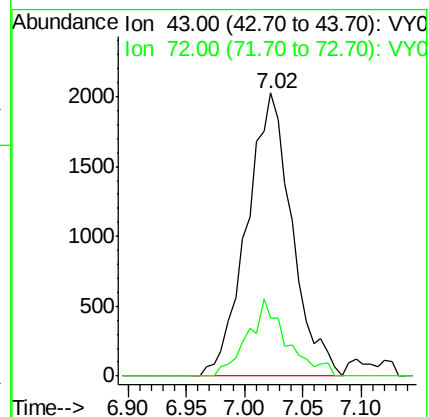
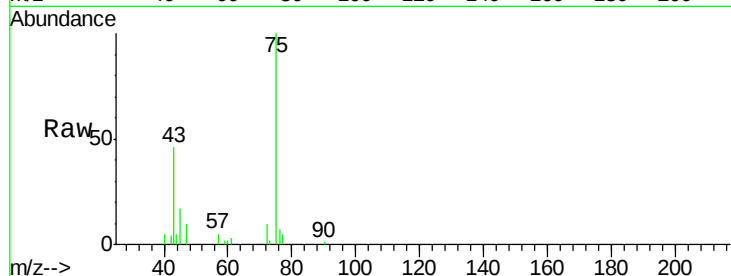
RAINEY-PARK-BH-06-C

Tgt Ion: 43 Resp: 5492

Ion Ratio Lower Upper

43 100

72 20.7 20.6 31.0



#29

Tetrahydrofuran

Concen: 1.53 ug/l

RT: 7.38 min Scan# 925

Delta R.T. -0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

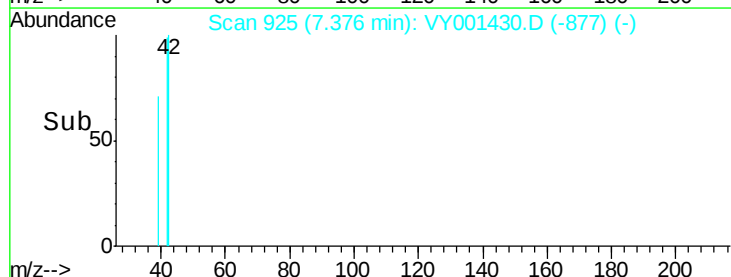
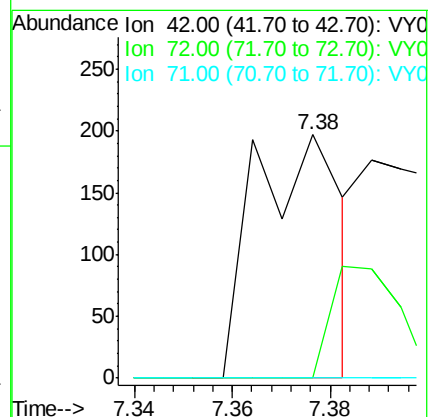
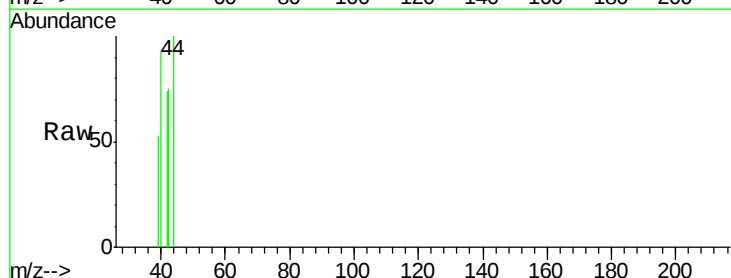
Tgt Ion: 42 Resp: 243

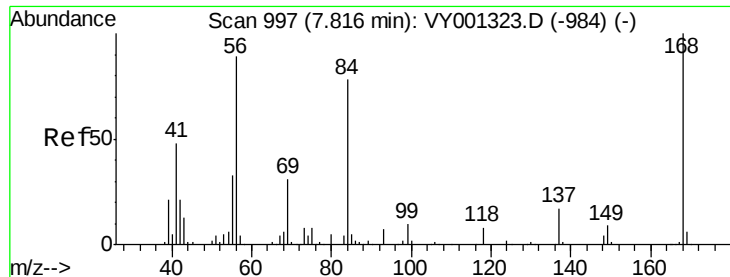
Ion Ratio Lower Upper

42 100

72 35.4 34.6 51.8

71 0.0 32.6 48.8#

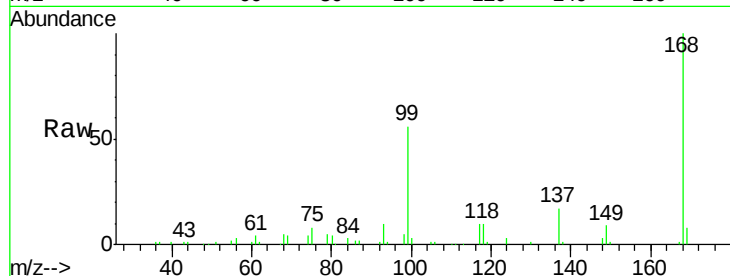




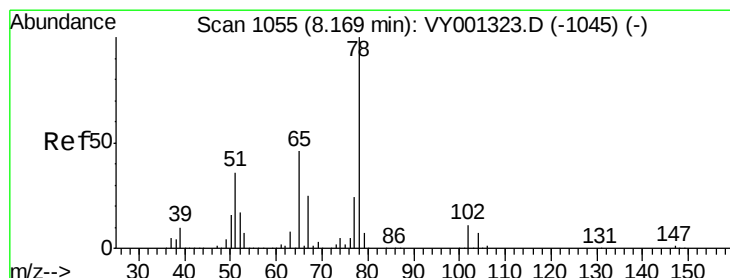
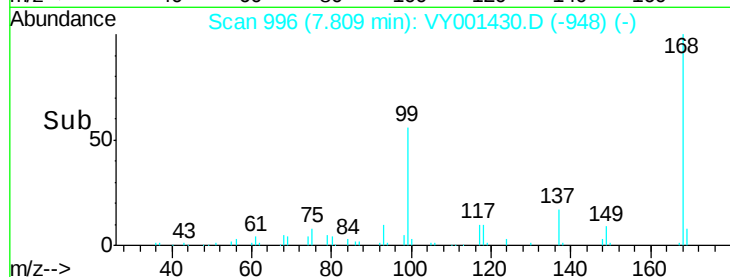
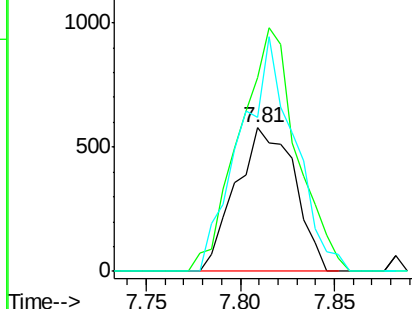
#31
Cyclohexane
Concen: 1.15 ug/l
RT: 7.81 min Scan# 996
Delta R.T. -0.01 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

Instrument :
MSVOA_Y
ClientSampleId :
RAINEY-PARK-BH-06-C

Tgt Ion: 56 Resp: 1249
Ion Ratio Lower Upper
56 100
69 135.6 27.6 41.4#
84 107.8 69.7 104.5#

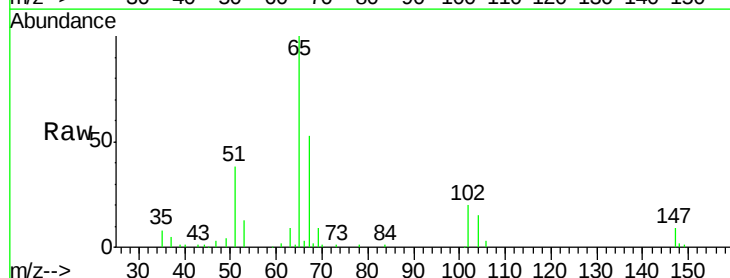


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

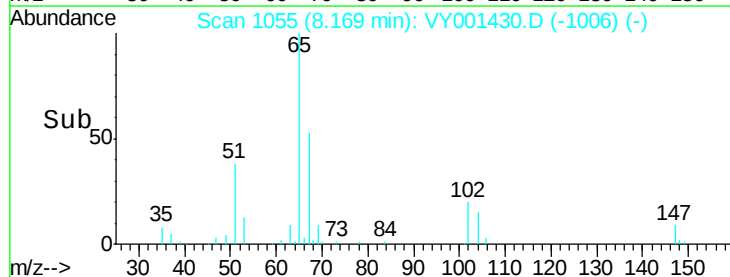
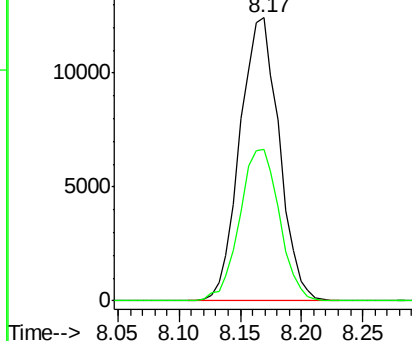


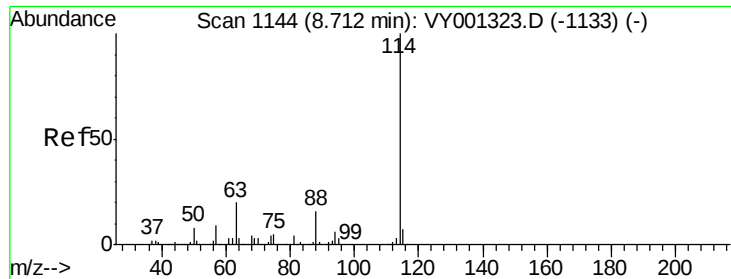
#33
1,2-Dichloroethane-d4
Concen: 49.33 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.00 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

Tgt Ion: 65 Resp: 27740
Ion Ratio Lower Upper
65 100
67 54.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

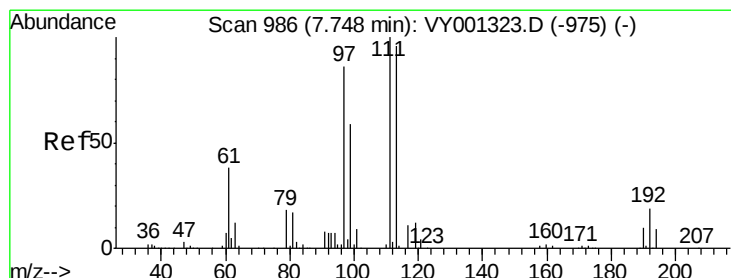
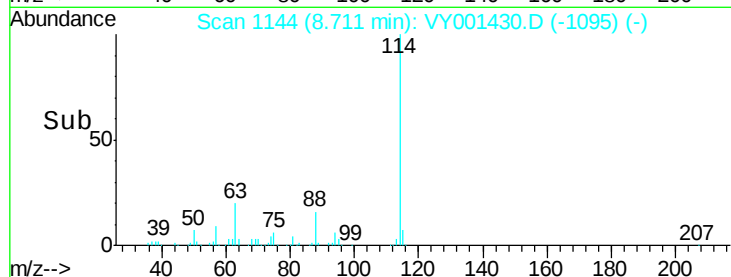
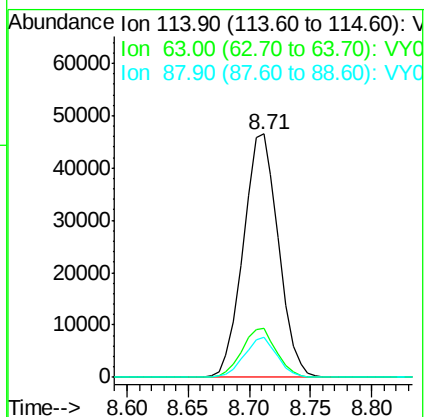
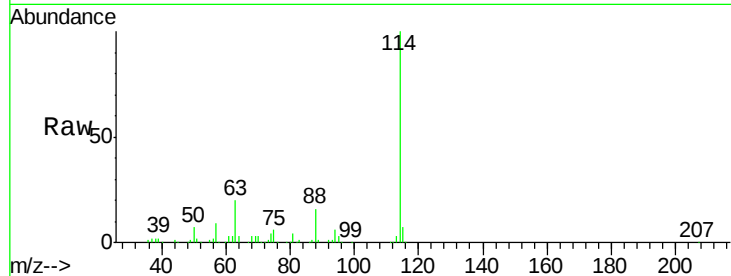




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

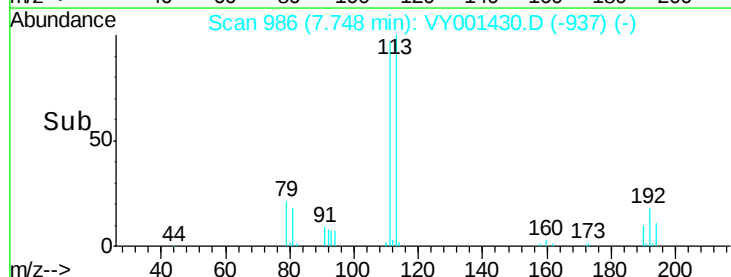
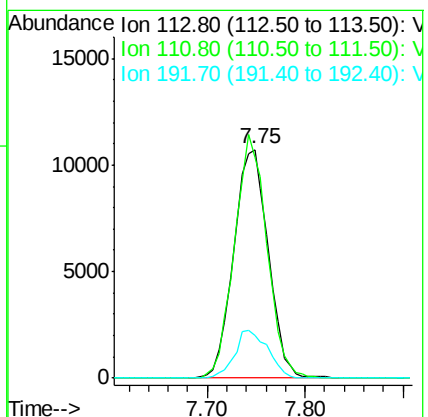
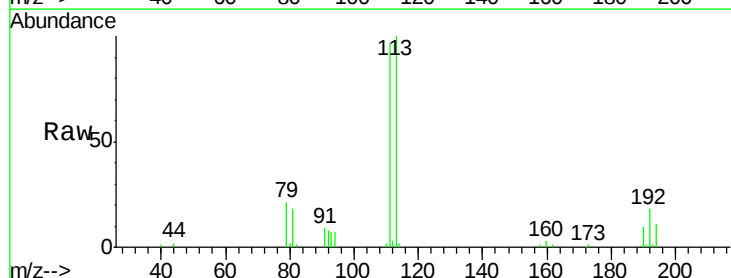
Instrument :
 MSVOA_Y
 ClientSampleId :
 RAINEY-PARK-BH-06-C

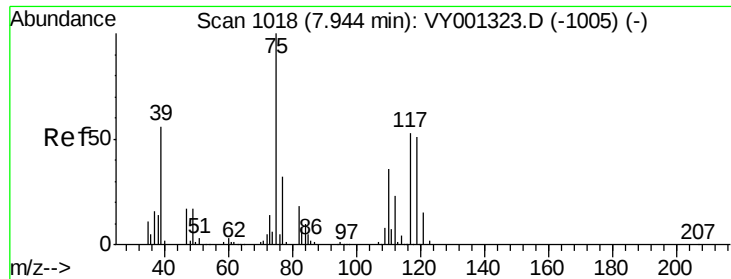
Tgt Ion:114 Resp: 92733
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.8
 88 16.4 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 48.39 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

Tgt Ion:113 Resp: 26339
 Ion Ratio Lower Upper
 113 100
 111 100.1 82.8 124.2
 192 19.9 15.5 23.3

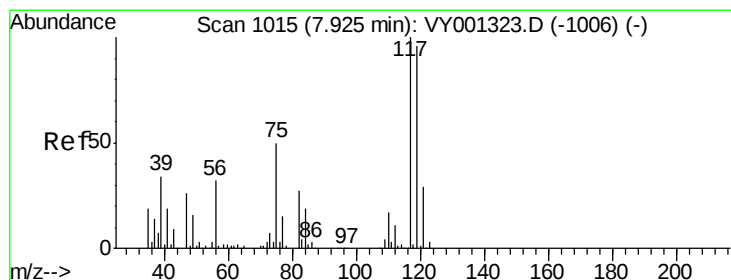
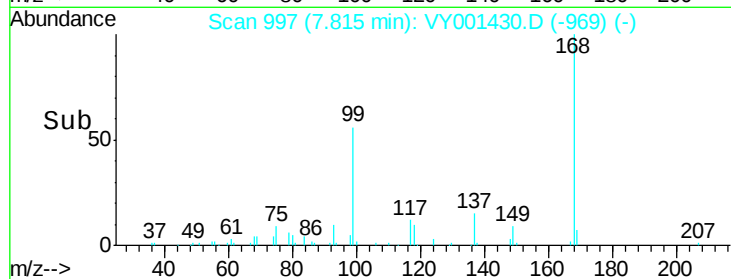
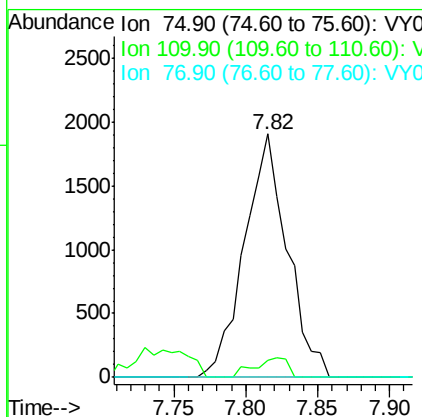
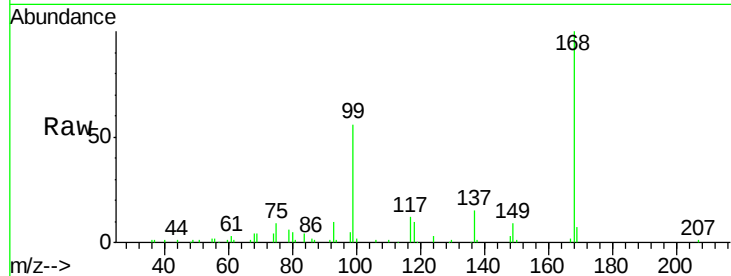




#36
 1,1-Dichloropropene
 Concen: 4.48 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

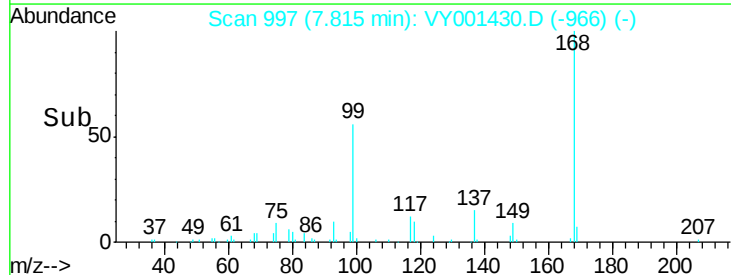
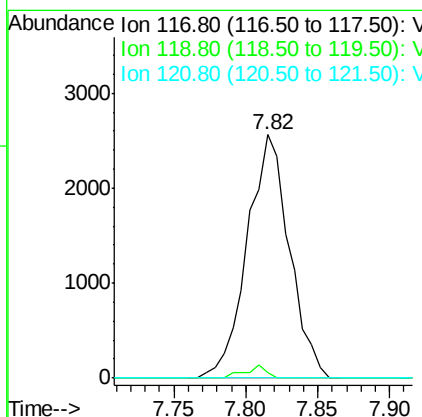
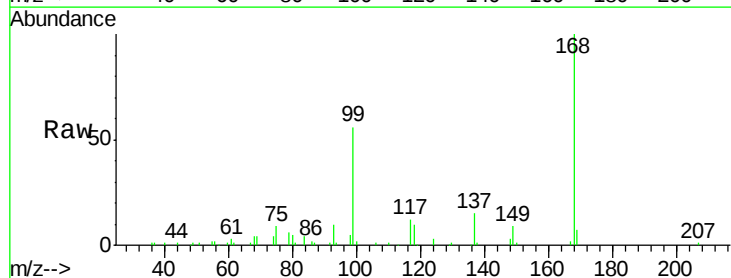
Instrument :
 MSVOA_Y
 ClientSampleId :
 RAINEY-PARK-BH-06-C

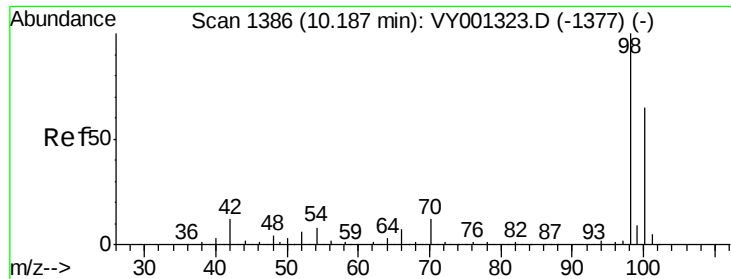
Tgt Ion: 75 Resp: 3928
 Ion Ratio Lower Upper
 75 100
 110 6.1 17.6 52.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.62 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.11 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

Tgt Ion: 117 Resp: 5170
 Ion Ratio Lower Upper
 117 100
 119 2.1 76.3 114.5#
 121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 50.26 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

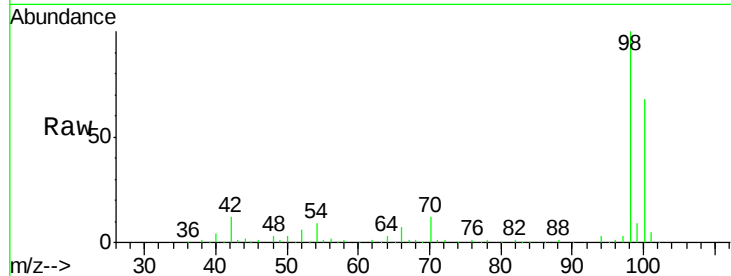
RAINEY-PARK-BH-06-C

Tgt Ion: 98 Resp: 106274

Ion Ratio Lower Upper

98 100

100 66.1 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

10.19

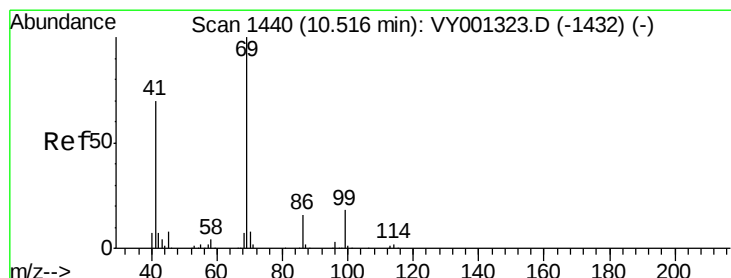
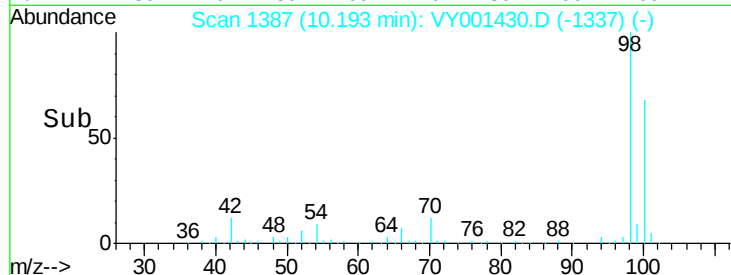
60000

40000

20000

0

Time-->



#56

Ethyl methacrylate

Concen: 1.40 ug/l

RT: 10.53 min Scan# 1442

Delta R.T. 0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

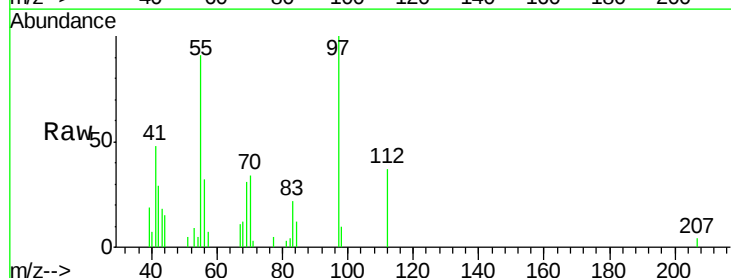
Tgt Ion: 69 Resp: 1111

Ion Ratio Lower Upper

69 100

41 217.8 54.1 81.1#

39 81.7 26.8 40.2#



Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

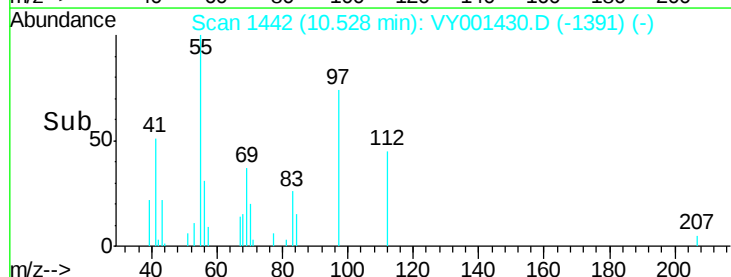
10.53

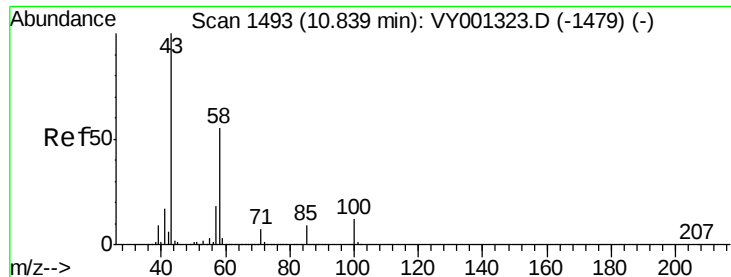
1000

500

0

Time-->





#59

2-Hexanone

Concen: 4.77 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.03 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

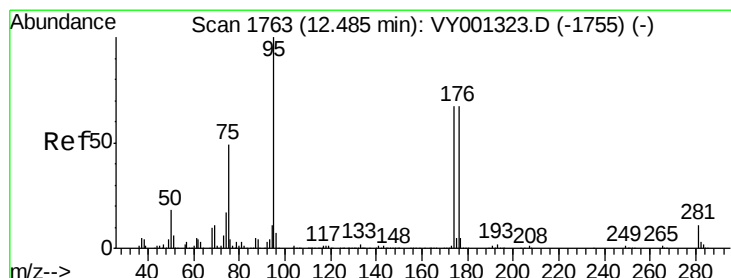
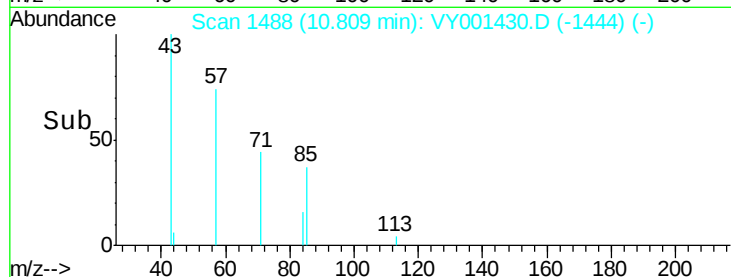
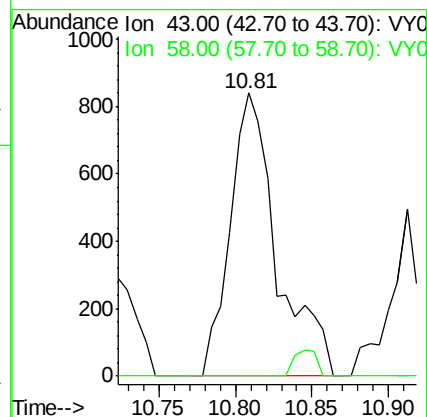
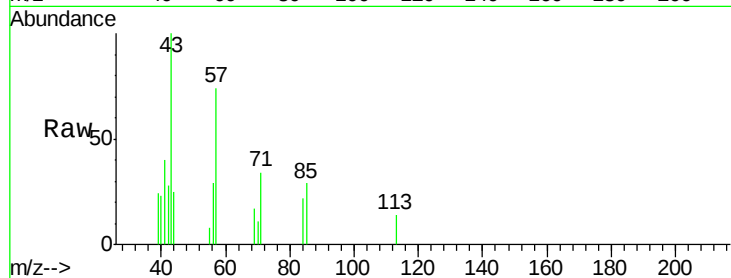
RAINEY-PARK-BH-06-C

Tgt Ion: 43 Resp: 1780

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.8#



#62

4-Bromofluorobenzene

Concen: 44.32 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

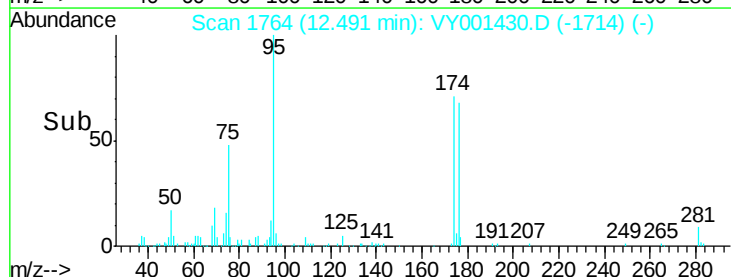
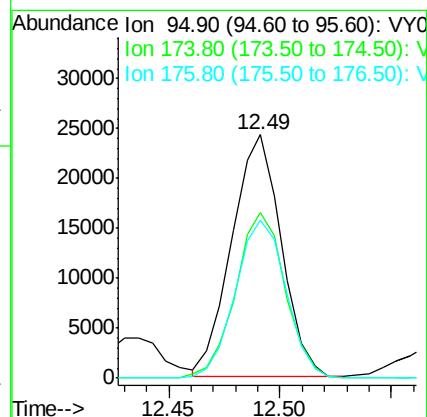
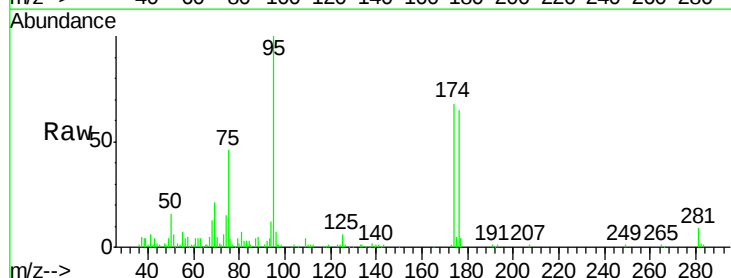
Tgt Ion: 95 Resp: 37320

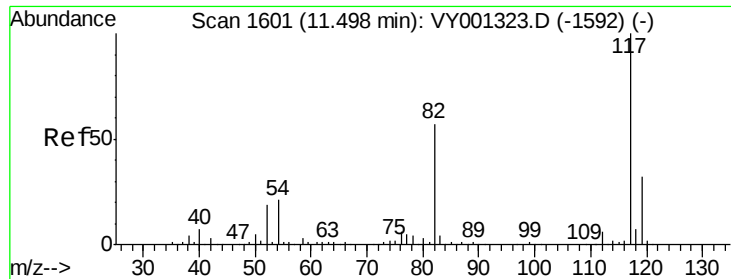
Ion Ratio Lower Upper

95 100

174 68.8 0.0 142.0

176 67.0 0.0 138.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.50 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

RAINEY-PARK-BH-06-C

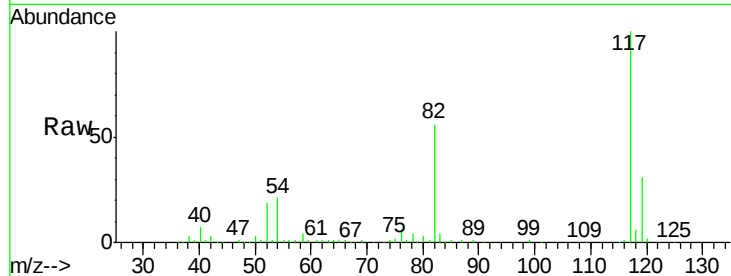
Tgt Ion:117 Resp: 77033

Ion Ratio Lower Upper

117 100

82 56.3 45.5 68.3

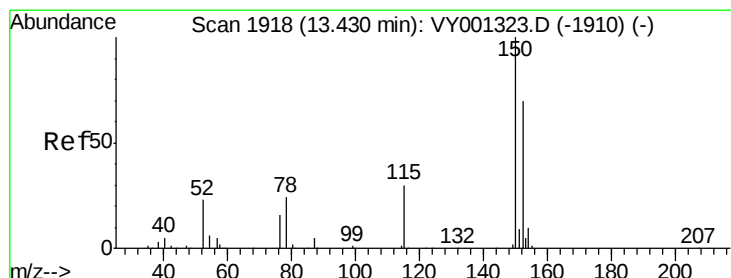
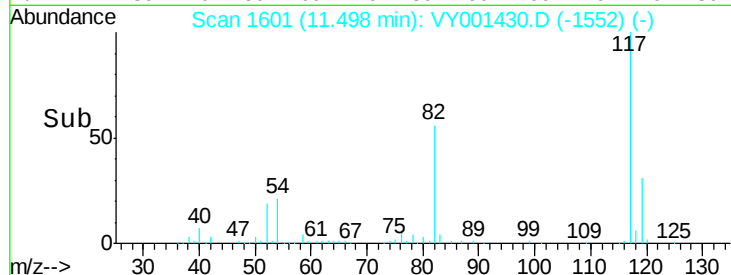
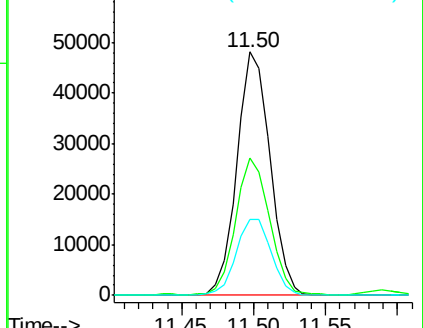
119 31.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

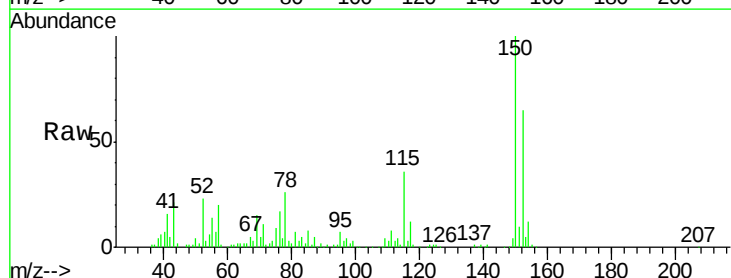
Tgt Ion:152 Resp: 33183

Ion Ratio Lower Upper

152 100

115 56.0 30.9 92.8

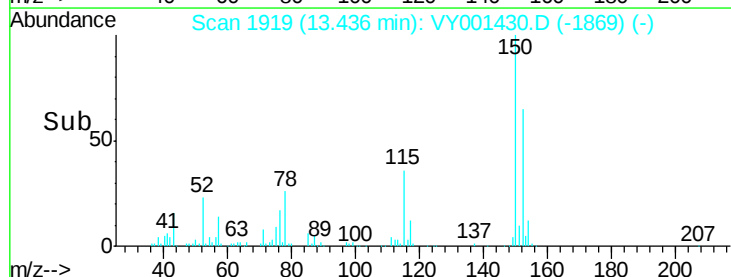
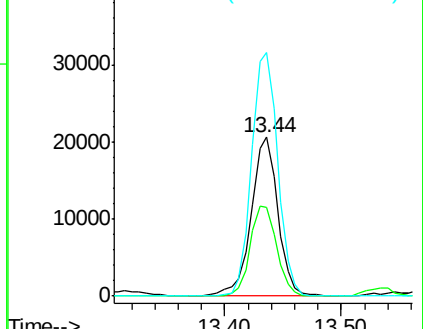
150 149.4 0.0 349.2

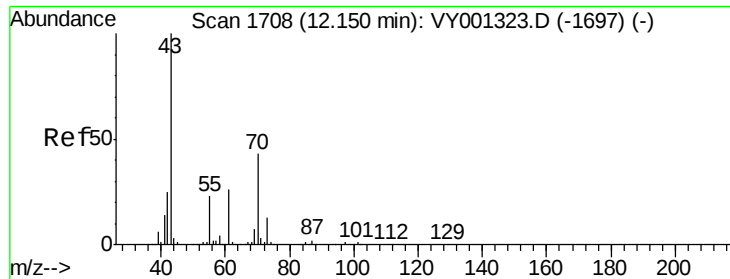


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 4.02 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

RAINEY-PARK-BH-06-C

Tgt Ion: 43 Resp: 3446

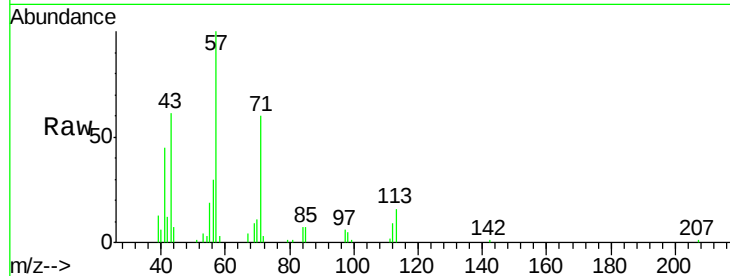
Ion Ratio Lower Upper

43 100

70 0.0 33.5 50.3#

55 0.0 18.2 27.2#

61 0.0 19.6 29.4#

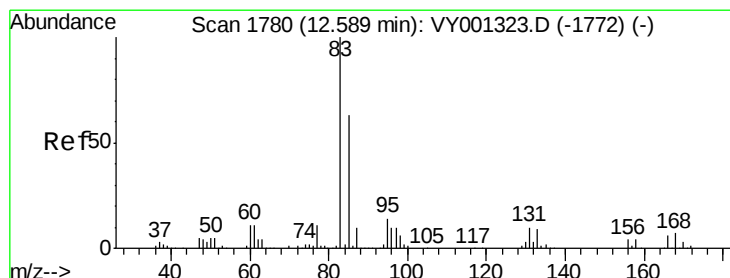
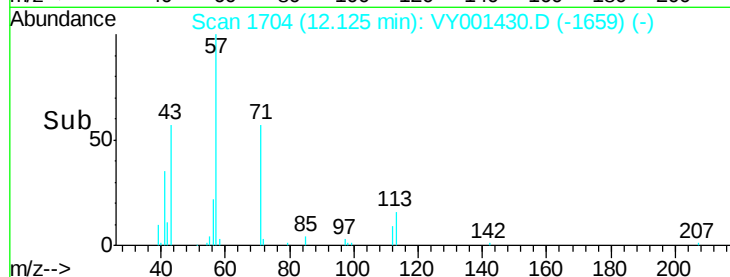
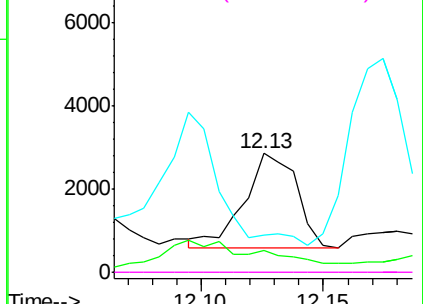


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#75

1,1,2,2-Tetrachloroethane

Concen: 3.94 ug/l

RT: 12.56 min Scan# 1775

Delta R.T. -0.03 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

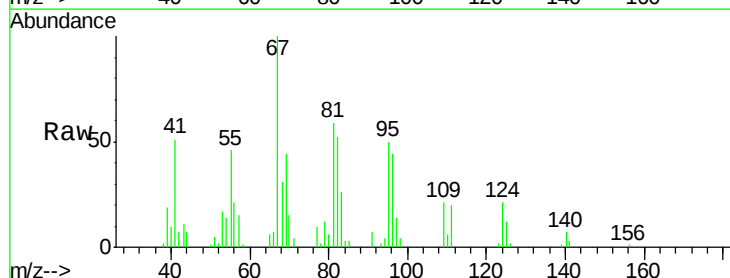
Tgt Ion: 83 Resp: 2209

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

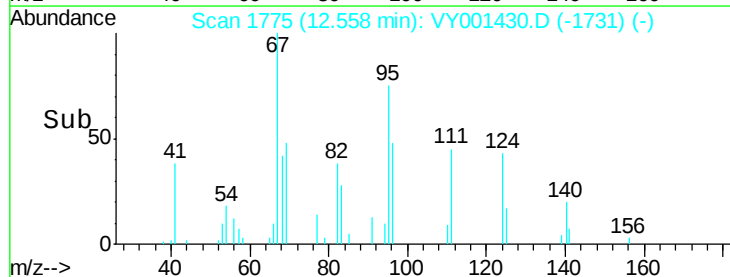
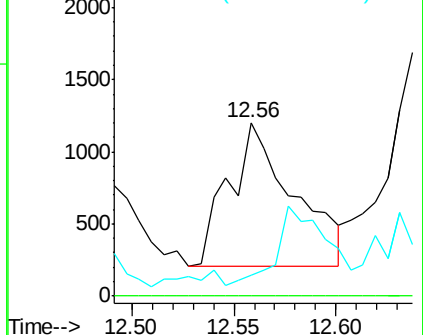
85 41.3 31.4 94.3

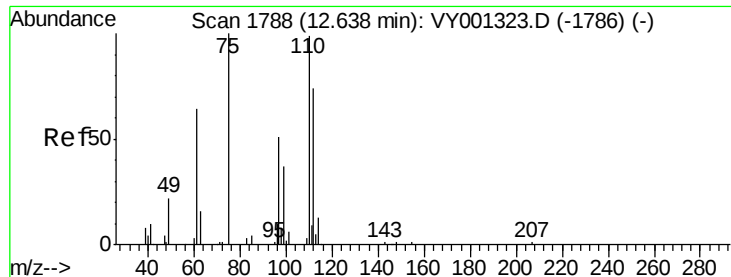


Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0

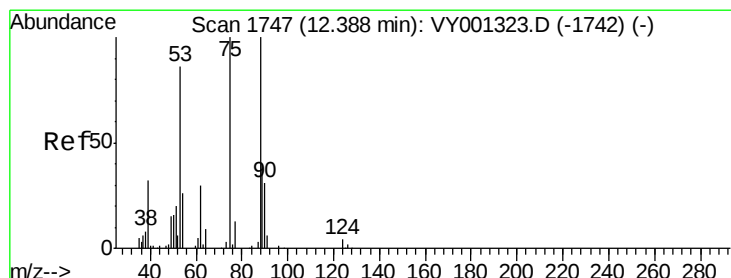
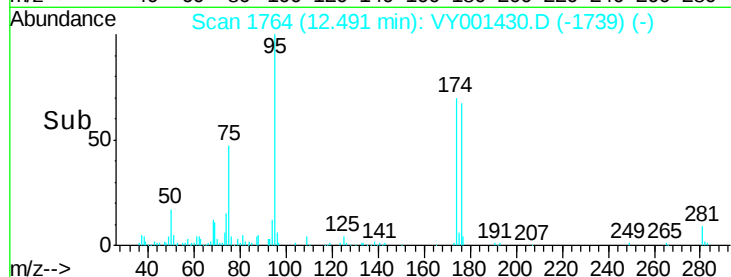
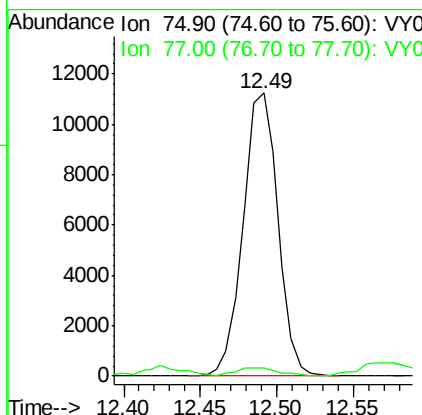
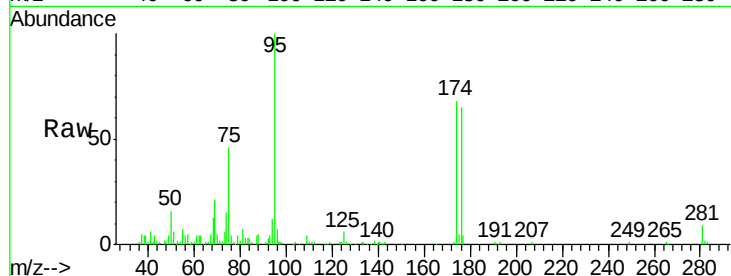




#76
 1,2,3-Trichloropropane
 Concen: 44.38 ug/l
 RT: 12.49 min Scan# 1764
 Delta R.T. -0.15 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

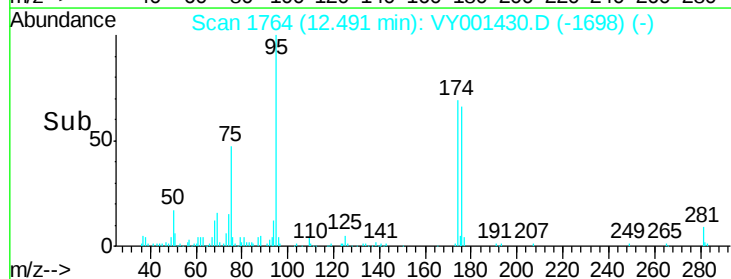
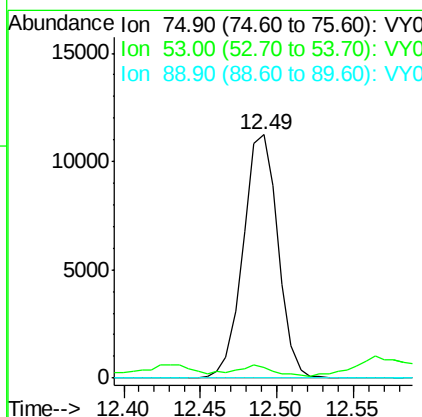
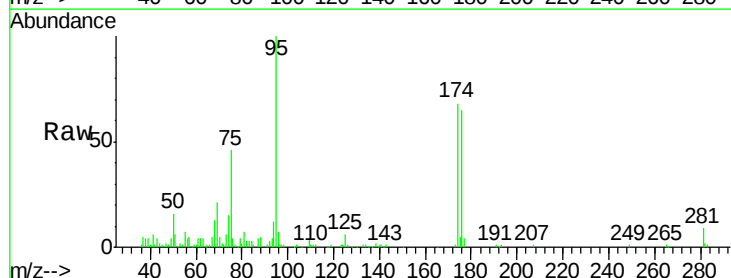
Instrument :
 MSVOA_Y
 ClientSampleId :
 RAINEY-PARK-BH-06-C

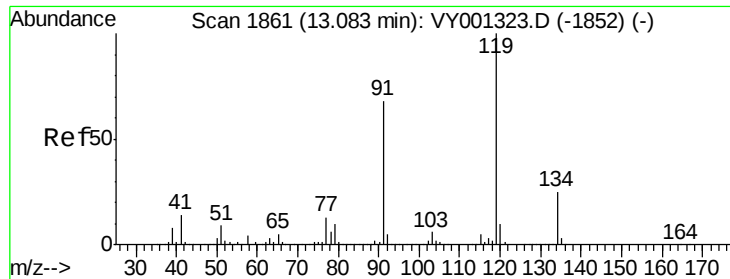
Tgt Ion: 75 Resp: 17747
 Ion Ratio Lower Upper
 75 100
 77 3.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.99 ug/l
 RT: 12.49 min Scan# 1764
 Delta R.T. 0.10 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

Tgt Ion: 75 Resp: 17747
 Ion Ratio Lower Upper
 75 100
 53 5.0 69.9 104.9#
 89 0.0 36.6 54.8#

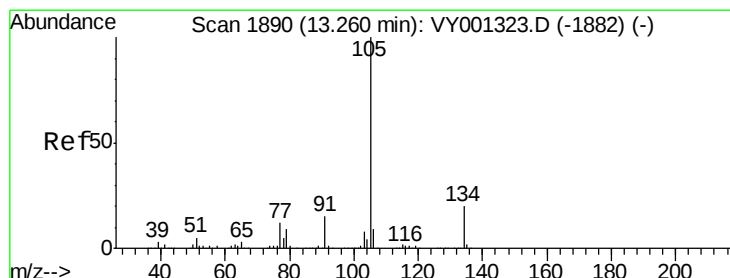
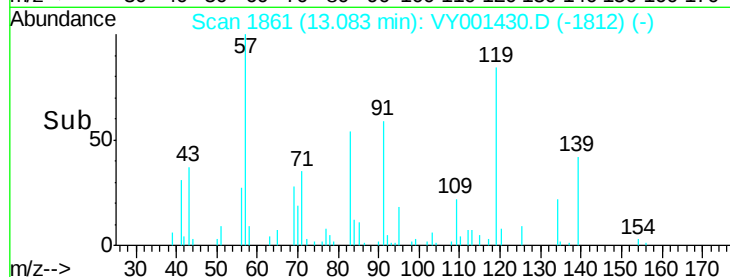
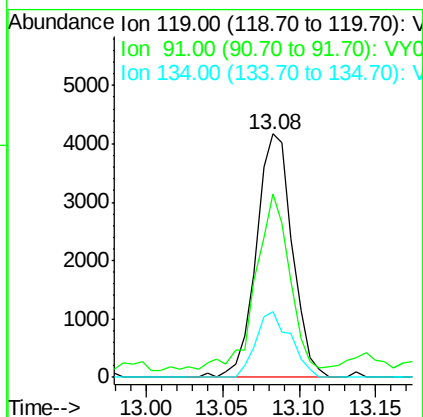
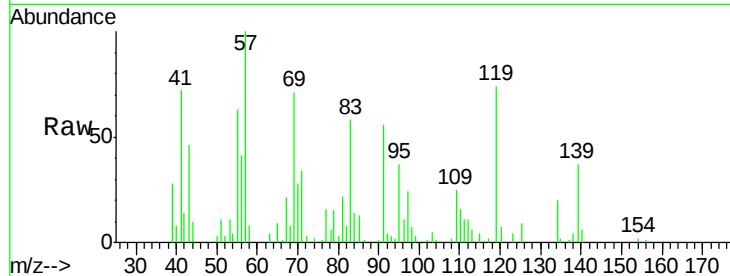




#83
 tert-Butylbenzene
 Concen: 3.70 ug/l
 RT: 13.08 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

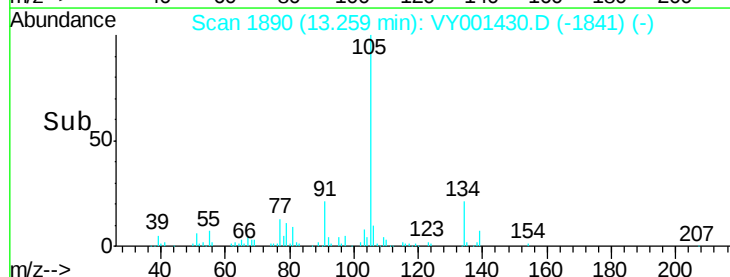
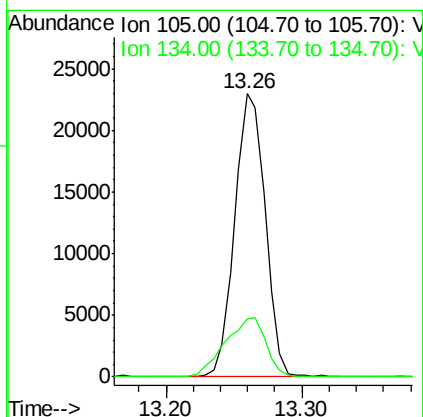
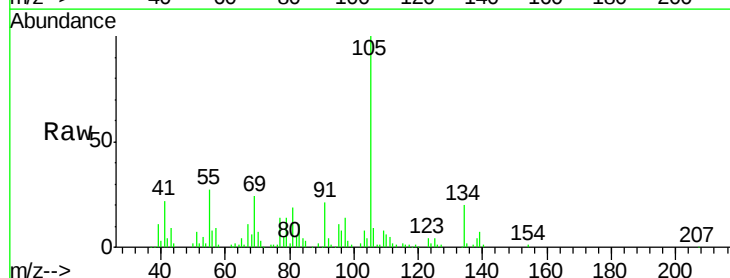
Instrument :
 MSVOA_Y
 ClientSampleId :
 RAINEY-PARK-BH-06-C

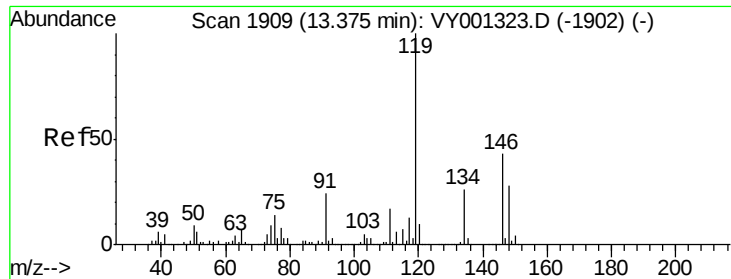
Tgt Ion:119 Resp: 6817
 Ion Ratio Lower Upper
 119 100
 91 69.7 33.0 99.0
 134 26.1 13.3 39.9



#85
 sec-Butylbenzene
 Concen: 13.72 ug/l
 RT: 13.26 min Scan# 1890
 Delta R.T. -0.00 min
 Lab File: VY001430.D
 Acq: 30 Jan 2020 15:15

Tgt Ion:105 Resp: 35903
 Ion Ratio Lower Upper
 105 100
 134 27.8 9.8 29.4

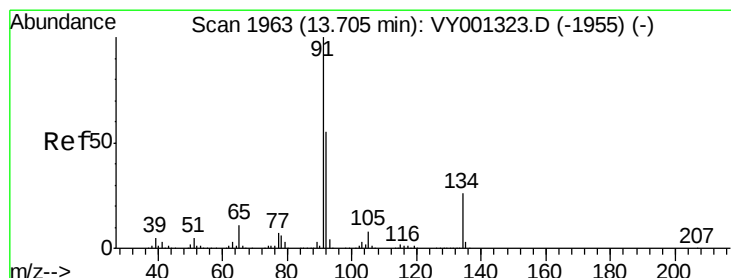
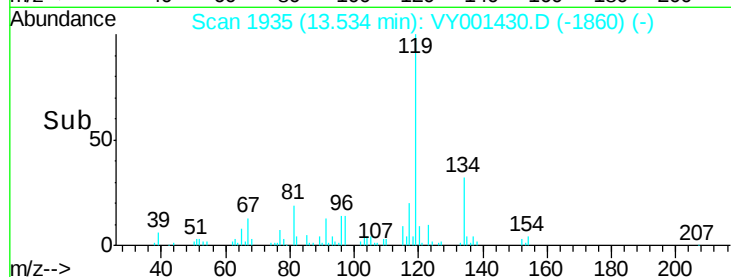
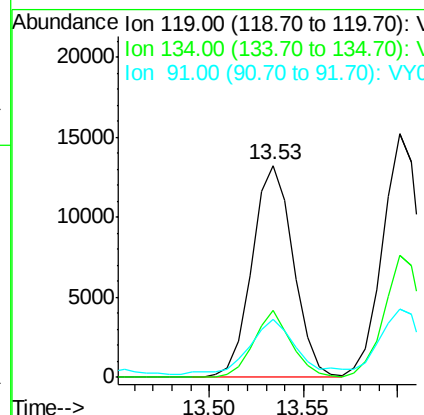
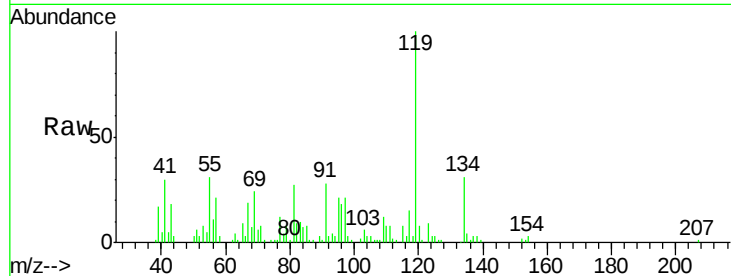




#86
p-Isopropyltoluene
Concen: 8.68 ug/l
RT: 13.53 min Scan# 1935
Delta R.T. 0.16 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

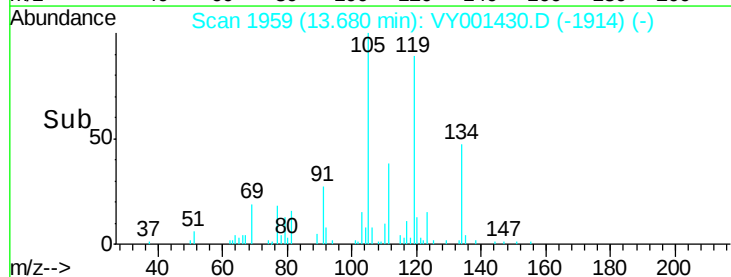
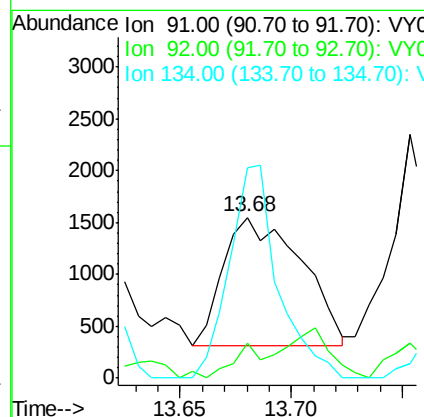
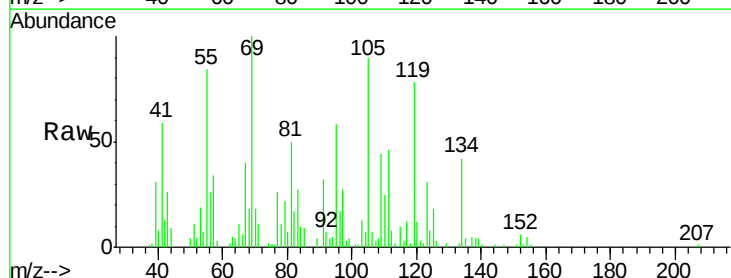
Instrument :
MSVOA_Y
ClientSampleId :
RAINEY-PARK-BH-06-C

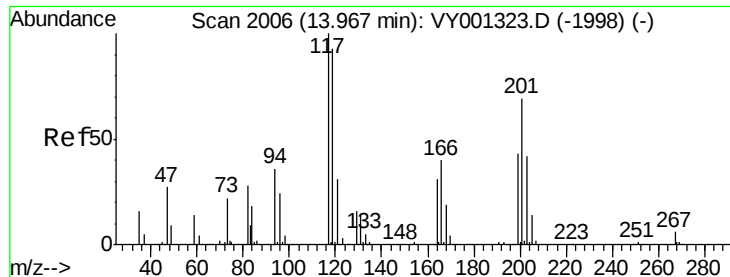
Tgt Ion: 119 Resp: 20026
Ion Ratio Lower Upper
119 100
134 28.6 13.5 40.4
91 30.0 12.2 36.6



#89
n-Butylbenzene
Concen: 1.29 ug/l
RT: 13.68 min Scan# 1959
Delta R.T. -0.02 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

Tgt Ion: 91 Resp: 2988
Ion Ratio Lower Upper
91 100
92 9.2 27.6 82.8#
134 104.3 12.9 38.6#





#90

Hexachloroethane

Concen: 3.41 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

Instrument :

MSVOA_Y

ClientSampleId :

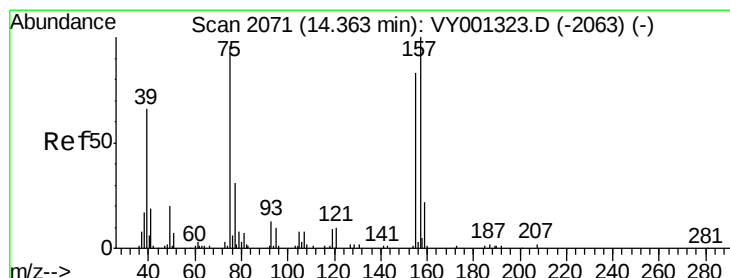
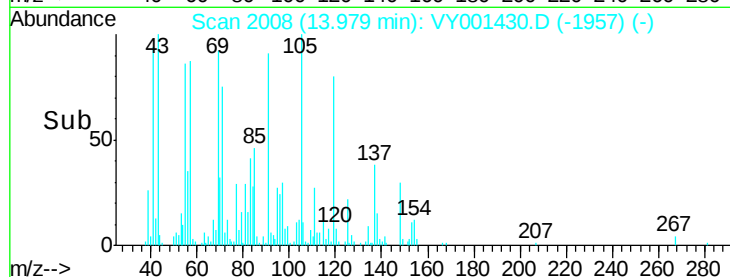
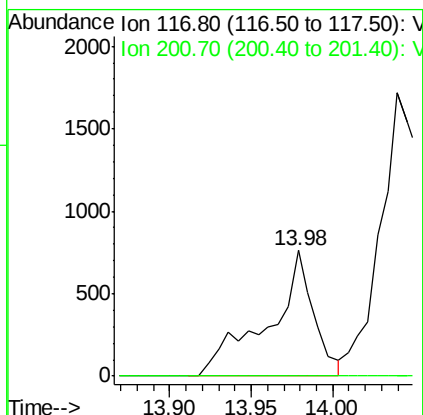
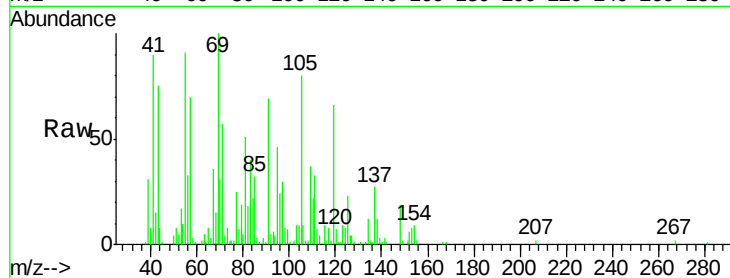
RAINEY-PARK-BH-06-C

Tgt Ion: 117 Resp: 1489

Ion Ratio Lower Upper

117 100

201 0.0 34.6 103.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.47 ug/l

RT: 14.38 min Scan# 2074

Delta R.T. 0.02 min

Lab File: VY001430.D

Acq: 30 Jan 2020 15:15

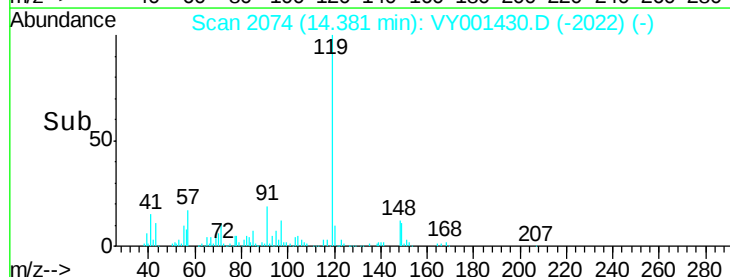
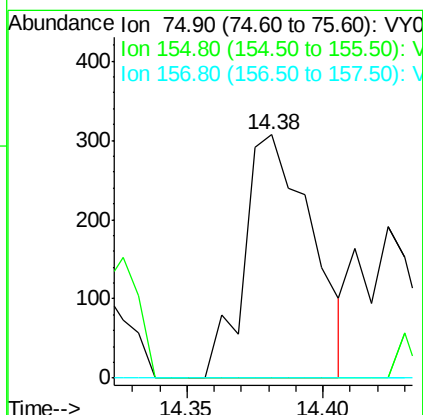
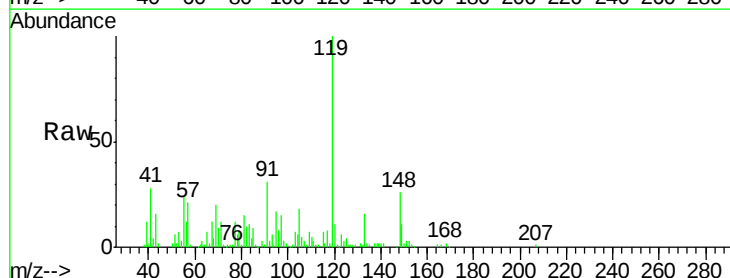
Tgt Ion: 75 Resp: 529

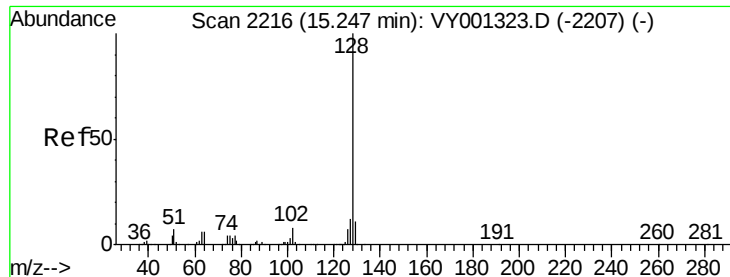
Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.2#

157 0.0 53.3 160.0#

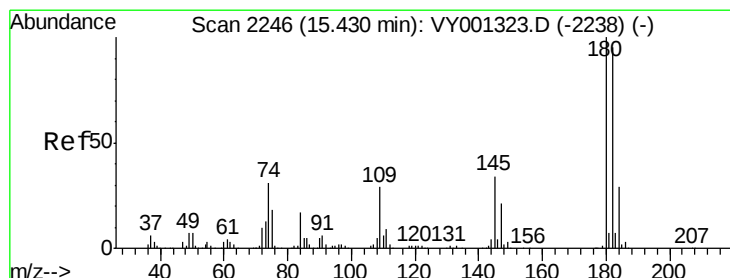
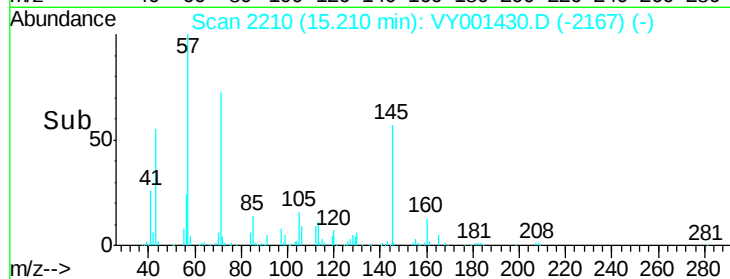
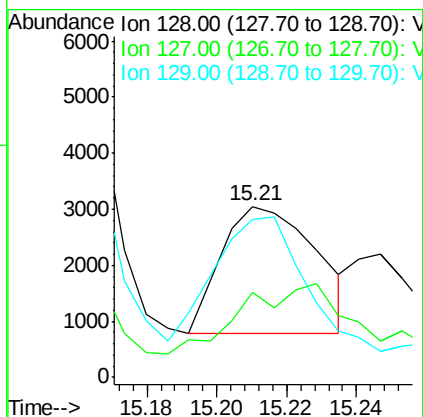
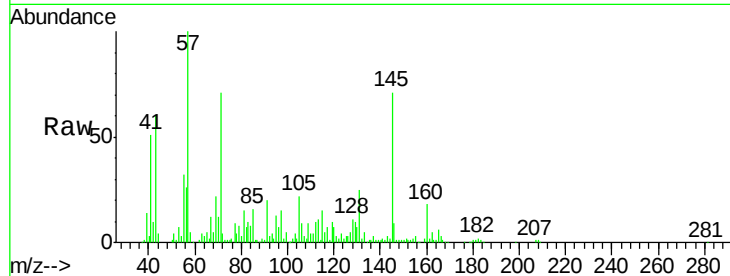




#95
Naphthalene
Concen: 2.70 ug/l
RT: 15.21 min Scan# 2210
Delta R.T. -0.04 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

Instrument :
MSVOA_Y
ClientSampleId :
RAINEY-PARK-BH-06-C

Tgt Ion:128 Resp: 4267
Ion Ratio Lower Upper
128 100
127 78.1 10.2 15.2#
129 100.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.33 ug/l
RT: 15.45 min Scan# 2249
Delta R.T. 0.02 min
Lab File: VY001430.D
Acq: 30 Jan 2020 15:15

Tgt Ion:180 Resp: 808
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.8#
145 0.0 16.8 50.3#

