

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020620\
 Data File : VY001538.D
 Acq On : 06 Feb 2020 18:03
 Operator : SY/MD
 Sample : L1408-13RE
 Misc : 4.88G/5ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SHORE-RD-PATH-BH-04-ARE

Quant Time: Feb 07 04:09:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y020420S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 04 15:10:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	6555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	12466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	11688	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	4721	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	4778	72.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	144.78%	
35) Dibromofluoromethane	7.74	113	3399	47.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.56%	
50) Toluene-d8	10.19	98	14514	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
62) 4-Bromofluorobenzene	12.49	95	5448	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	

Target Compounds

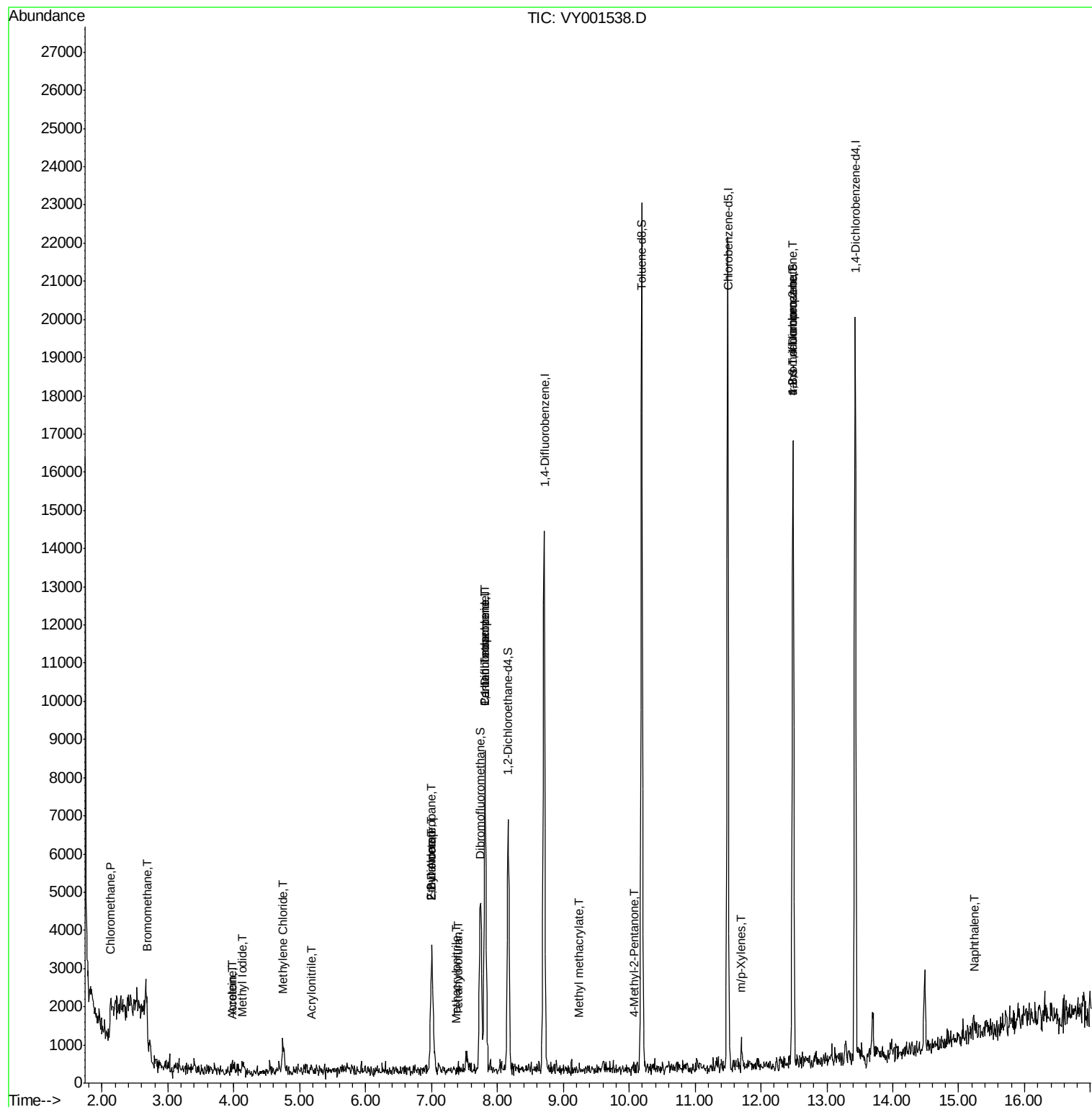
						Qvalue
3) Chloromethane	2.13	50	264	3.937	ug/l #	79
5) Bromomethane	2.68	94	237	5.412	ug/l	91
10) Methyl Iodide	4.13	142	339	3.836	ug/l #	42
13) Acrolein	3.96	56	22	3.520	ug/l #	15
15) Acrylonitrile	5.18	53	19	1.066	ug/l #	18
16) Acetone	3.97	43	279	14.614	ug/l #	40
20) Methylene Chloride	4.74	84	609	3.778	ug/l #	79
25) 2-Butanone	7.01	43	155	6.258	ug/l #	45
26) 2,2-Dichloropropane	7.00	77	162	1.347	ug/l #	52
29) Tetrahydrofuran	7.41	42	41	2.762	ug/l #	31
36) 1,1-Dichloropropene	7.82	75	594	5.209	ug/l #	41
37) Ethyl Acetate	7.01	43	155	2.808	ug/l #	23
38) Carbon Tetrachloride	7.82	117	725	6.571	ug/l #	12
41) Methacrylonitrile	7.38	41	26	1.016	ug/l #	1
48) Methyl methacrylate	9.24	41	71	1.431	ug/l #	10
51) 4-Methyl-2-Pentanone	10.07	43	57	1.059	ug/l #	33
68) m/p-Xylenes	11.70	106	215	1.350	ug/l	88
76) 1,2,3-Trichloropropane	12.49	75	2671	52.610	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	2671	101.798	ug/l #	16
95) Naphthalene	15.24	128	723	3.373	ug/l #	73

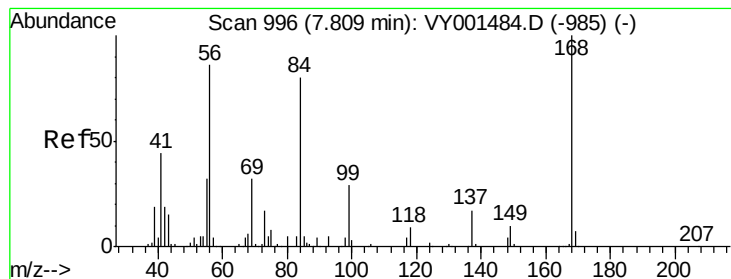
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

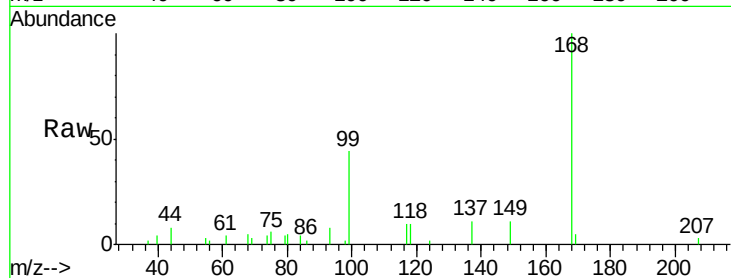
SHORE-RD-PATH-BH-04-ARE

Tot Ion:168 Resp: 6555

Ion Ratio Lower Upper

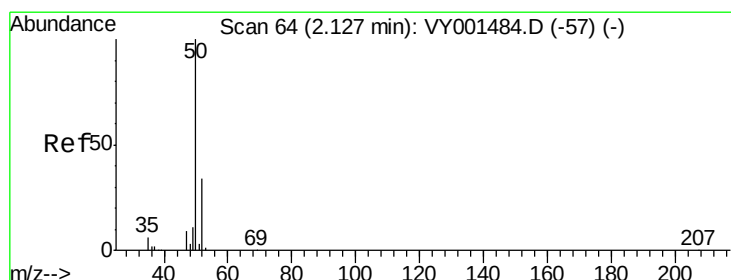
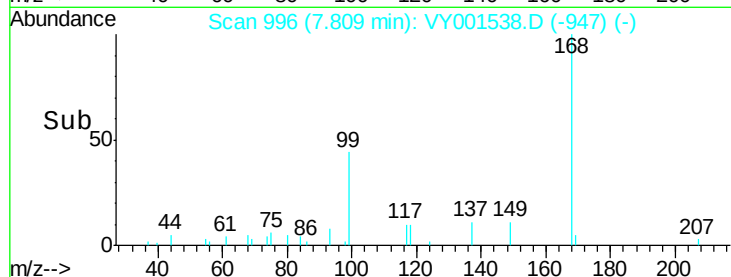
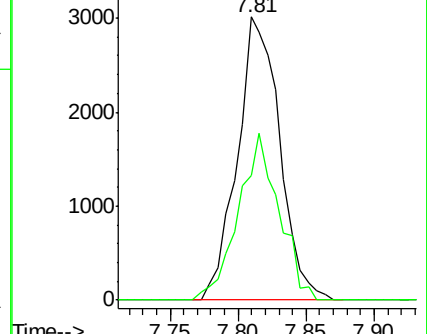
168 100

99 44.2 48.2 72.4#



Abundance Ion 167.90 (167.60 to 168.60): VY001538.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY001538.D (-947) (-)



#3

Chloromethane

Concen: 3.937 ug/l

RT: 2.13 min Scan# 65

Delta R.T. 0.01 min

Lab File: VY001538.D

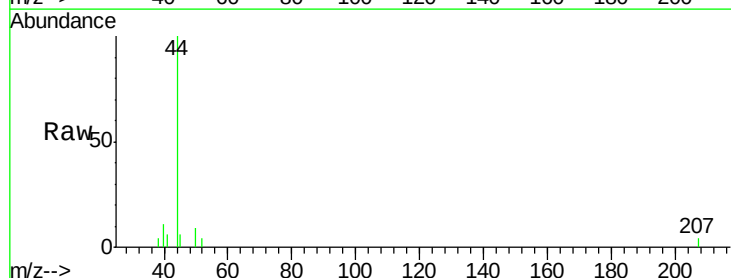
Acq: 06 Feb 2020 18:03

Tgt Ion: 50 Resp: 264

Ion Ratio Lower Upper

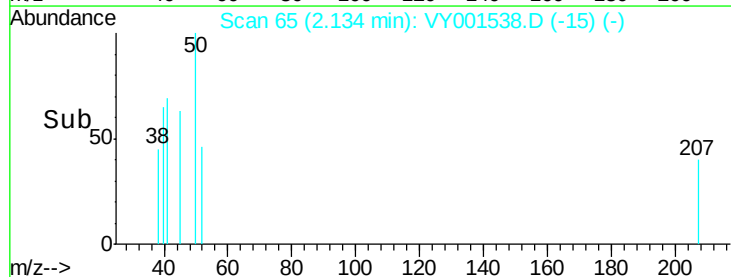
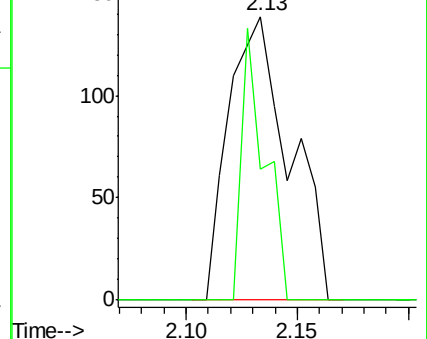
50 100

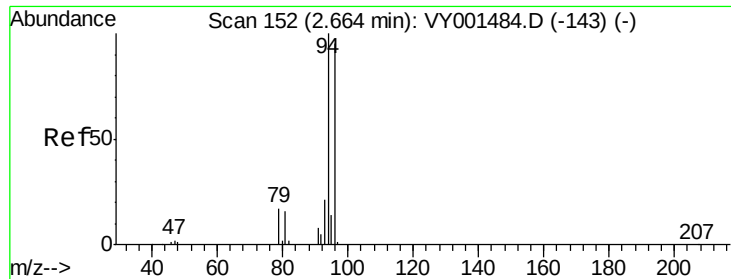
52 46.0 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VY001538.D (-15) (-)

Ion 51.90 (51.60 to 52.60): VY001538.D (-15) (-)





#5

Bromomethane

Concen: 5.412 ug/l

RT: 2.68 min Scan# 155

Delta R.T. 0.02 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

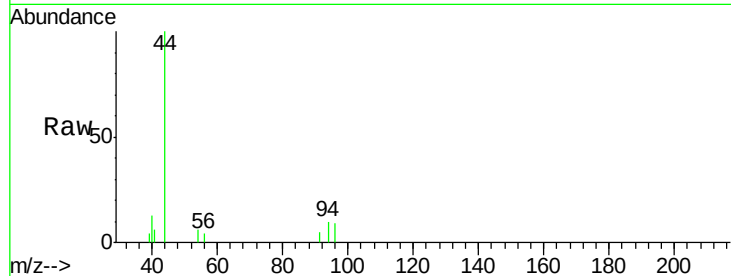
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 94 Resp: 237

Ion Ratio Lower Upper

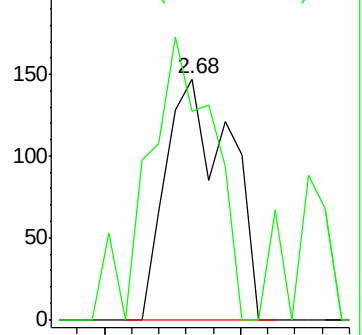
94 100

96 86.4 76.2 114.2

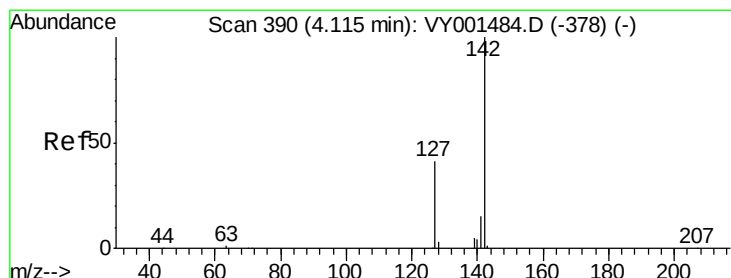
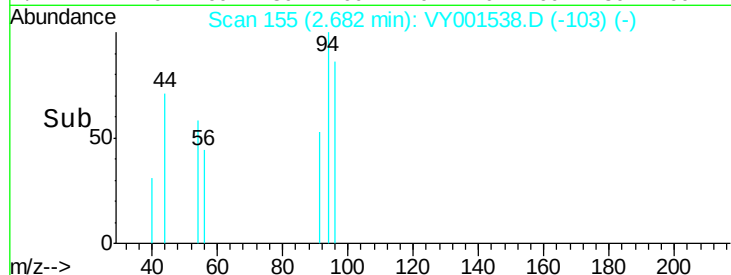


Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



Time-->



#10

Methyl Iodide

Concen: 3.836 ug/l

RT: 4.13 min Scan# 392

Delta R.T. 0.01 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

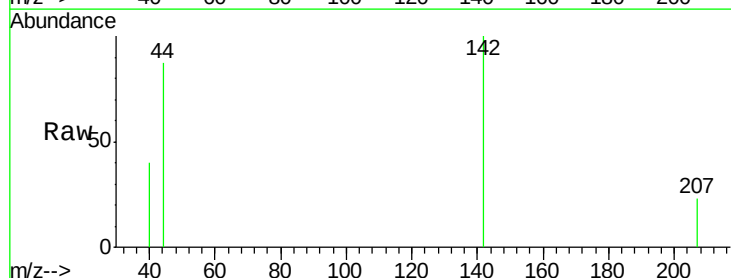
Tgt Ion: 142 Resp: 339

Ion Ratio Lower Upper

142 100

127 0.0 33.3 49.9#

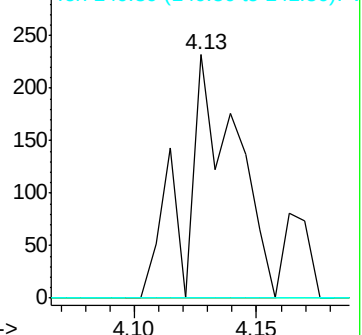
141 0.0 11.5 17.3#



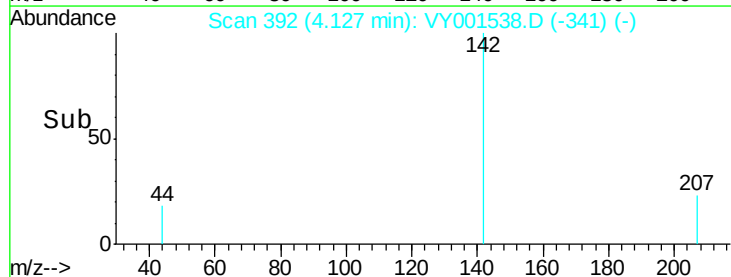
Abundance Ion 141.80 (141.50 to 142.50): V

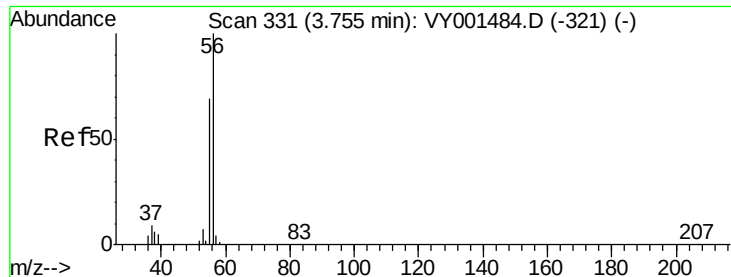
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#13

Acrolein

Concen: 3.520 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.21 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

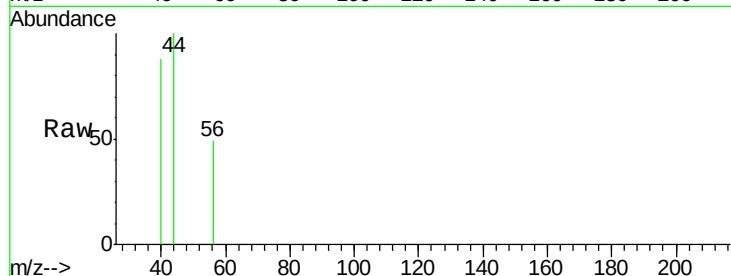
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

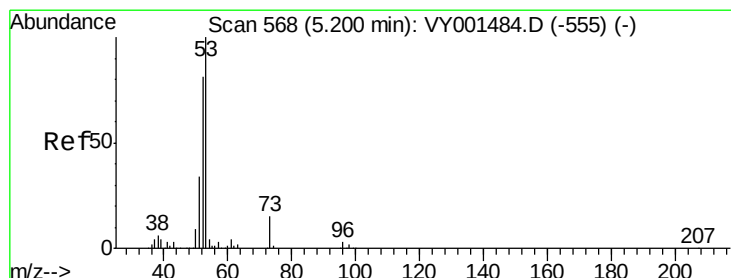
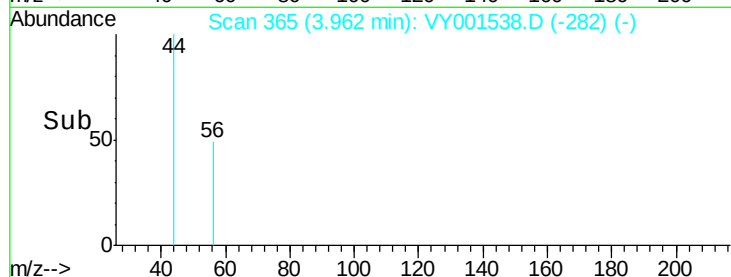
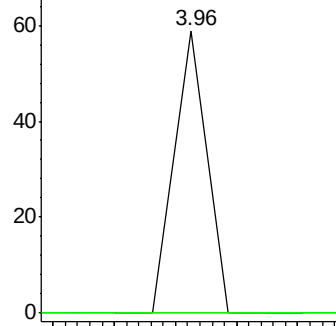
56 100

55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#15

Acrylonitrile

Concen: 1.066 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.02 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

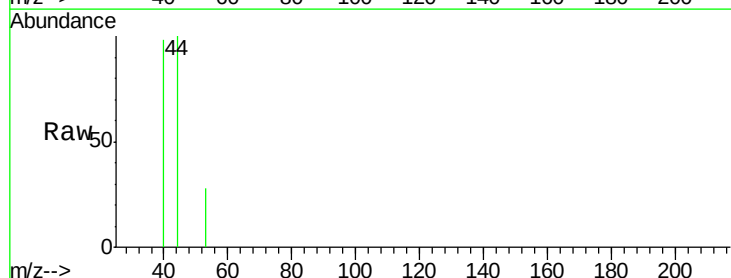
Tgt Ion: 53 Resp: 19

Ion Ratio Lower Upper

53 100

52 0.0 65.4 98.2#

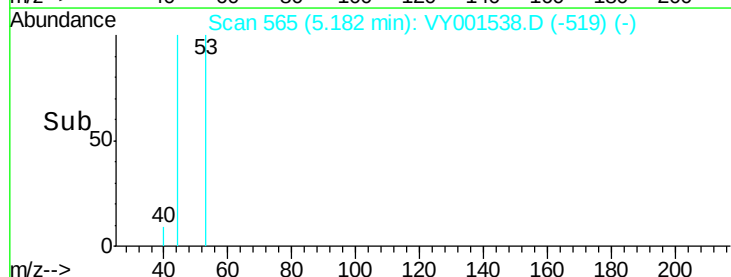
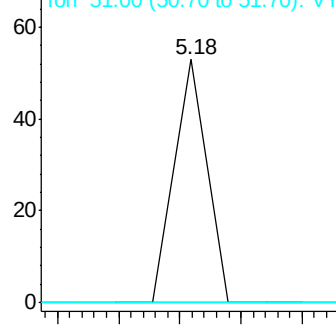
51 0.0 29.0 43.4#

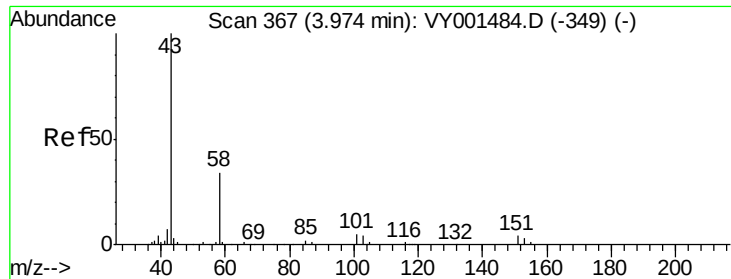


Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0





#16

Acetone

Concen: 14.614 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

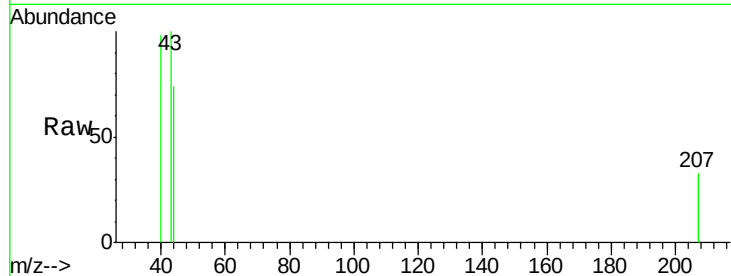
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 43 Resp: 279

Ion Ratio Lower Upper

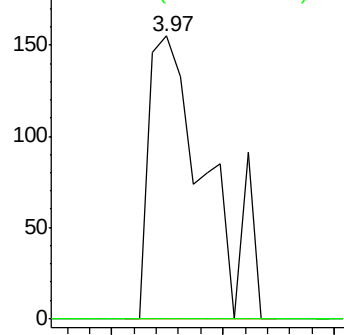
43 100

58 0.0 27.5 41.3#

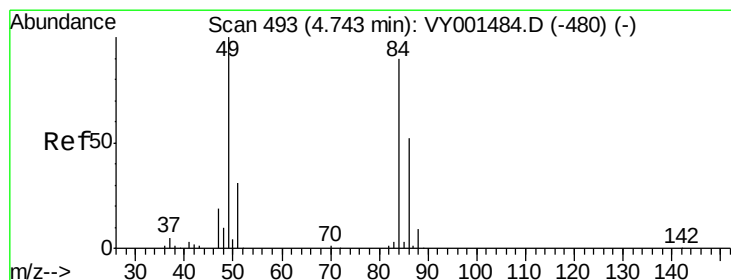
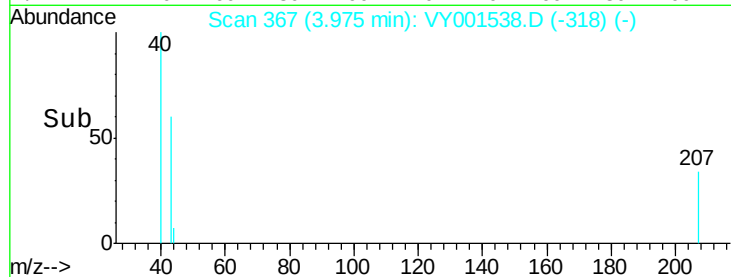


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#20

Methylene Chloride

Concen: 3.778 ug/l

RT: 4.74 min Scan# 493

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Tgt Ion: 84 Resp: 609

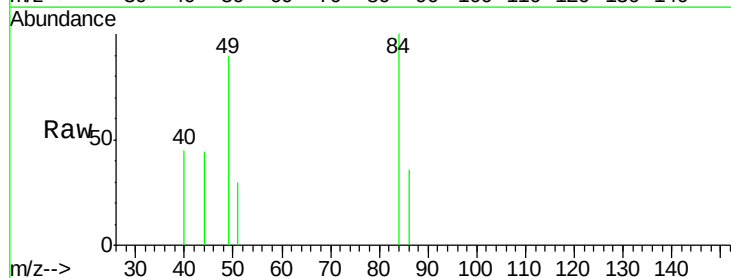
Ion Ratio Lower Upper

84 100

49 89.7 89.0 133.6

51 29.6 27.4 41.2

86 35.8 46.6 70.0#

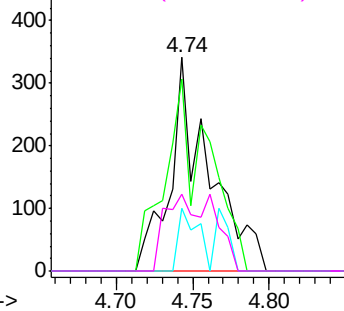


Abundance Ion 83.90 (83.60 to 84.60): VY0

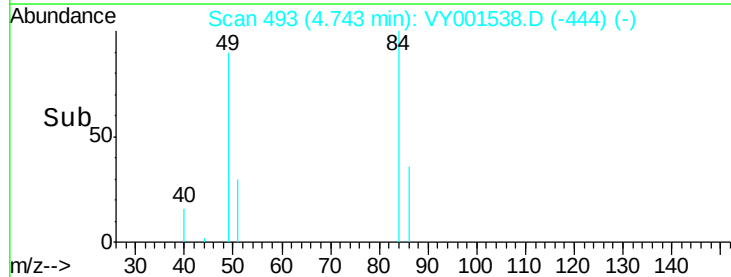
Ion 48.90 (48.60 to 49.60): VY0

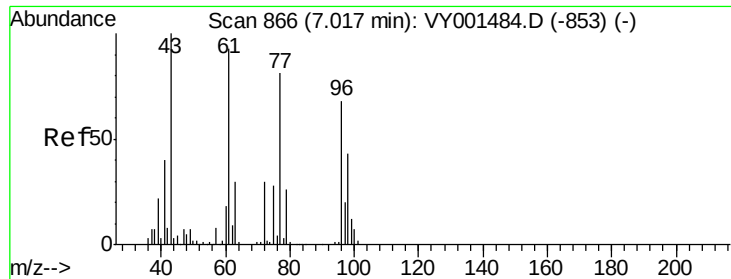
Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



Time-->





#25

2-Butanone

Concen: 6.258 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.01 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

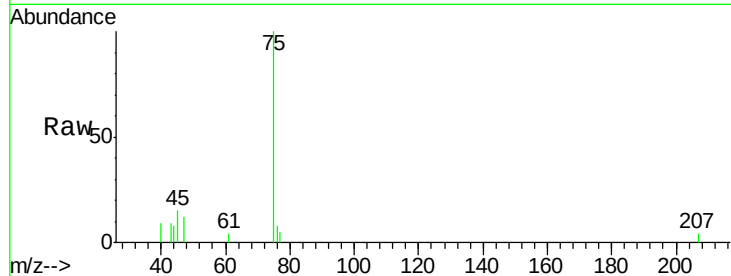
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 43 Resp: 155

Ion Ratio Lower Upper

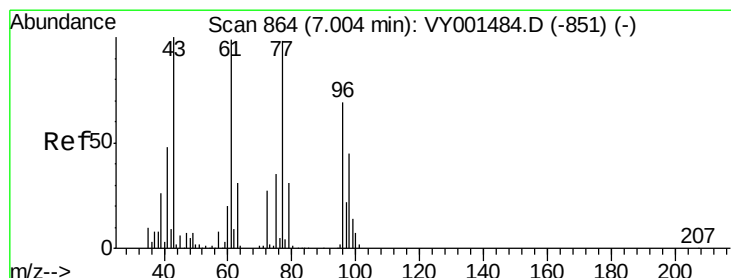
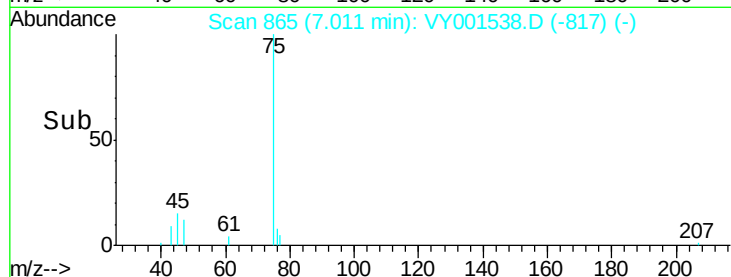
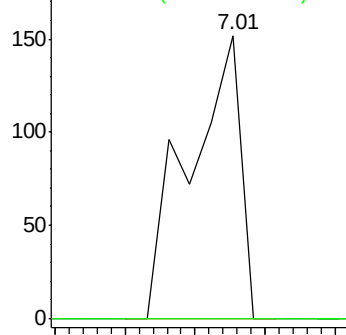
43 100

72 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 1.347 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.01 min

Lab File: VY001538.D

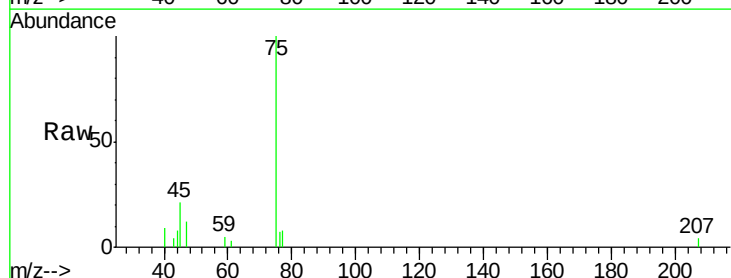
Acq: 06 Feb 2020 18:03

Tgt Ion: 77 Resp: 162

Ion Ratio Lower Upper

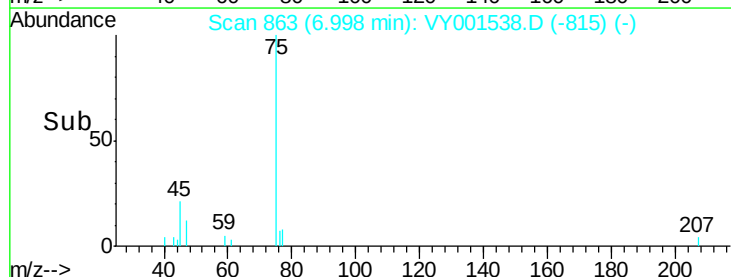
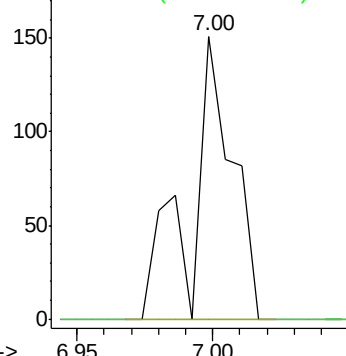
77 100

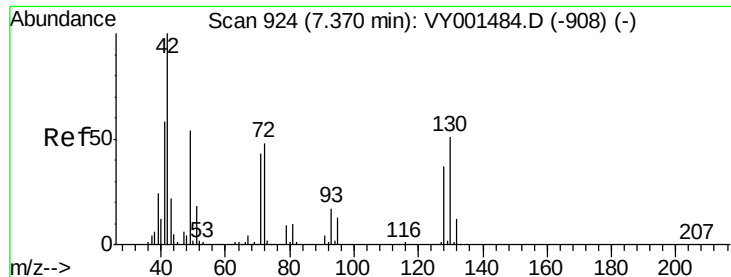
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0

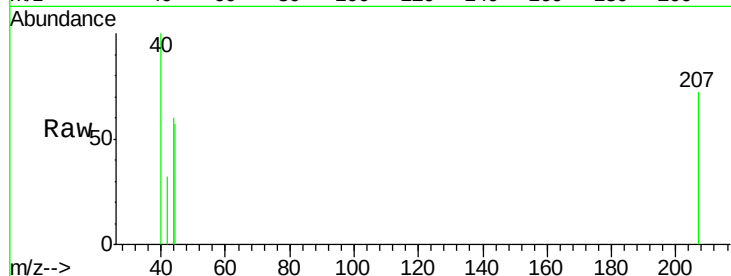




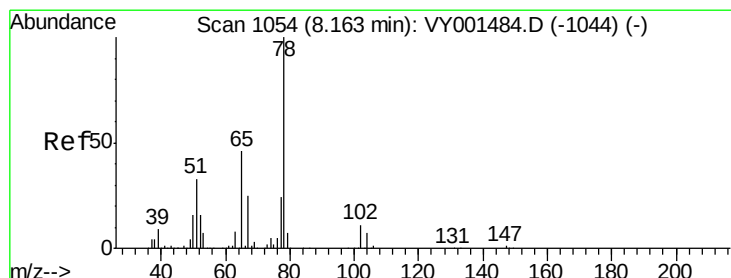
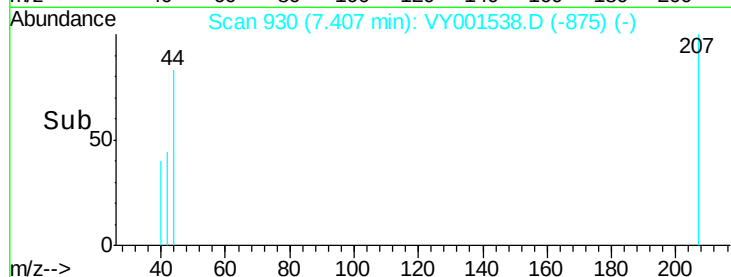
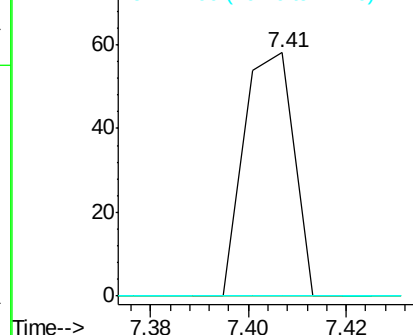
#29
Tetrahydrofuran
Concen: 2.762 ug/l
RT: 7.41 min Scan# 930
Delta R.T. 0.04 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

Instrument :
MSVOA_Y
ClientSampleId :
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 34.8 52.2#

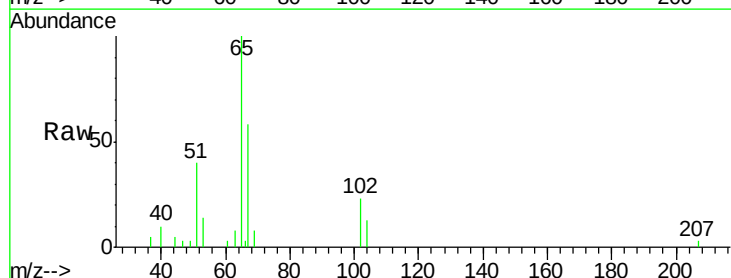


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

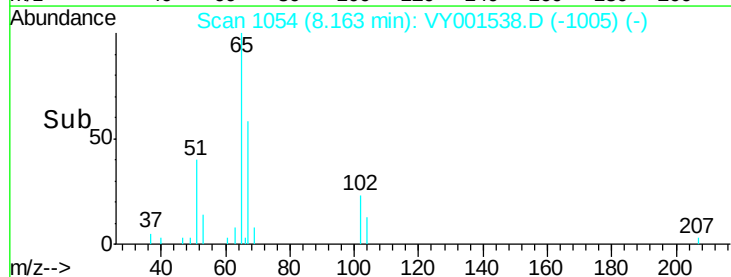
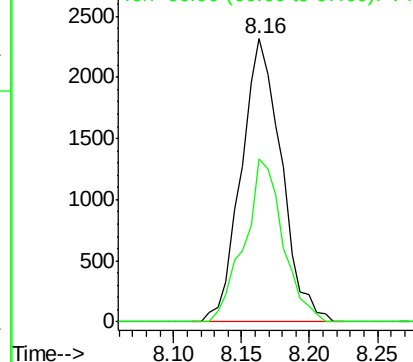


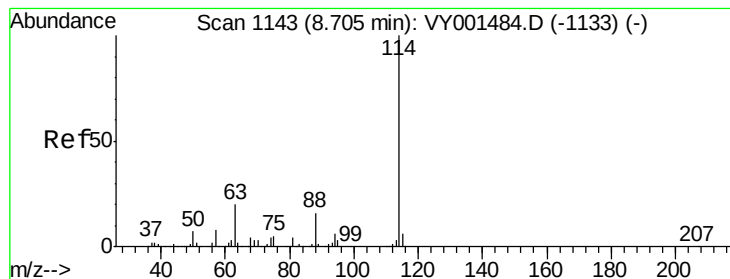
#33
1,2-Dichloroethane-d4
Concen: 72.395 ug/l
RT: 8.16 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

Tgt Ion: 65 Resp: 4778
Ion Ratio Lower Upper
65 100
67 55.2 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: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

SHORE-RD-PATH-BH-04-ARE

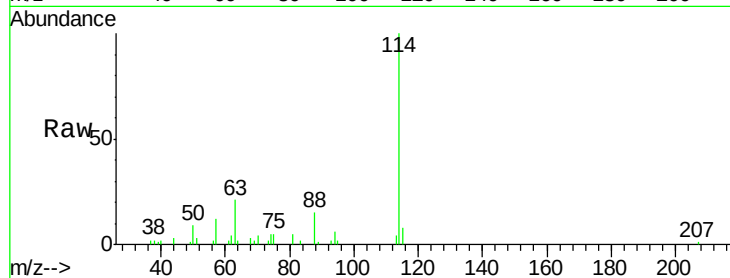
Tot Ion:114 Resp: 12466

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.8

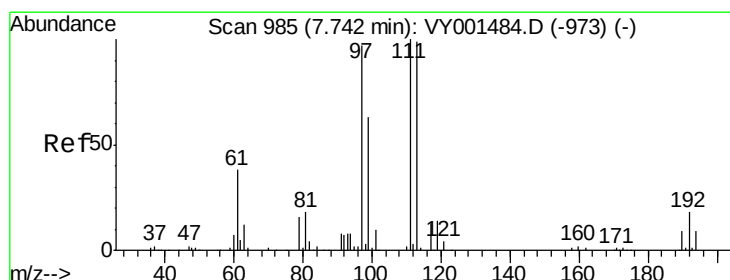
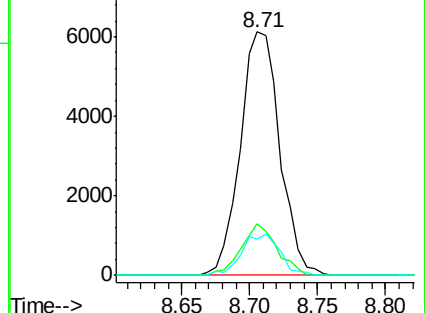
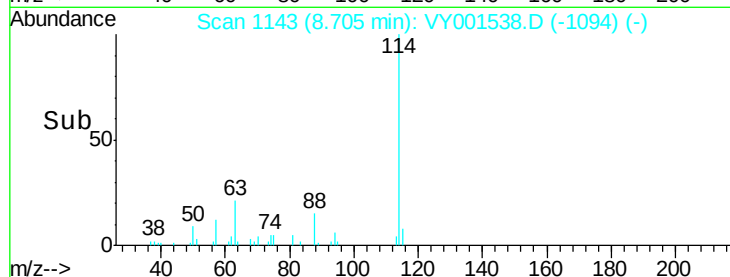
88 14.7 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 47.284 ug/l

RT: 7.74 min Scan# 985

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

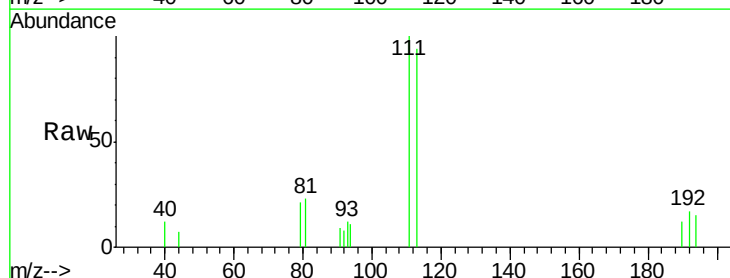
Tgt Ion:113 Resp: 3399

Ion Ratio Lower Upper

113 100

111 101.9 82.9 124.3

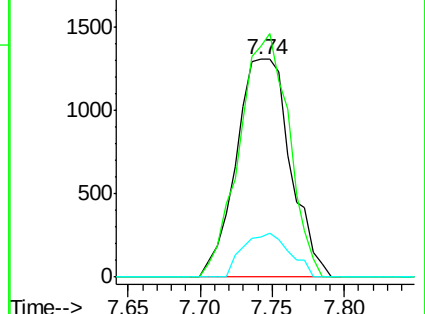
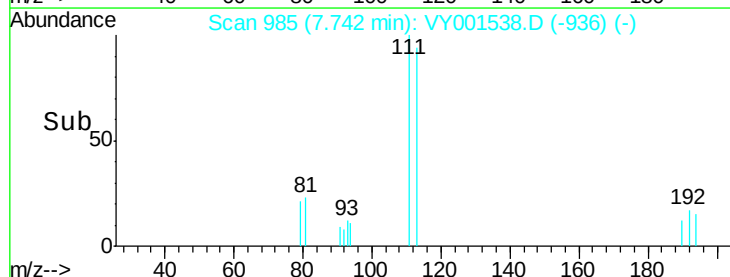
192 17.5 14.6 22.0

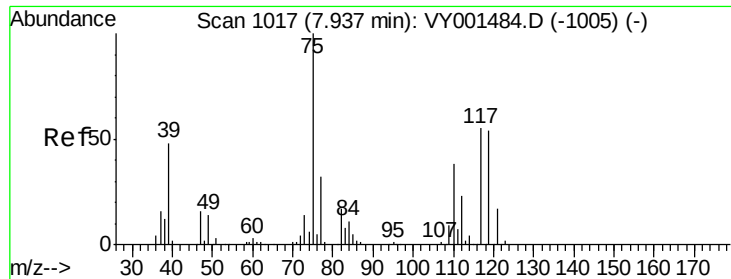


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

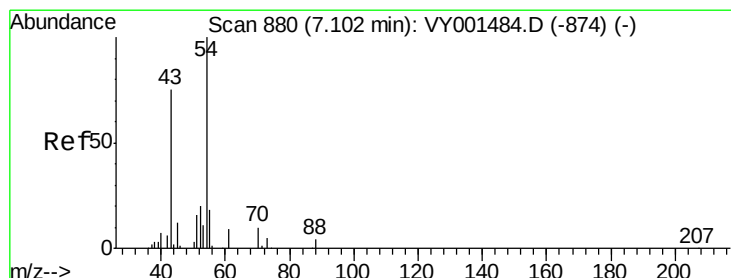
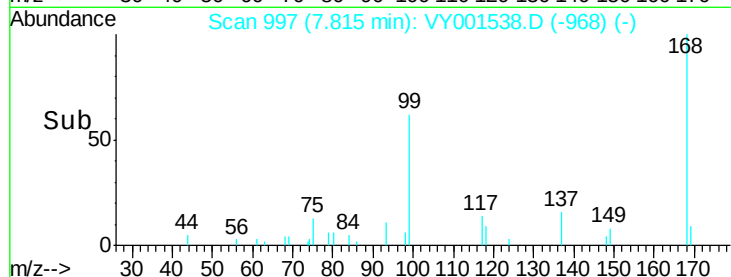
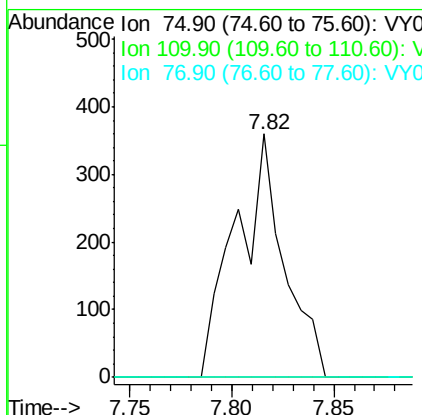
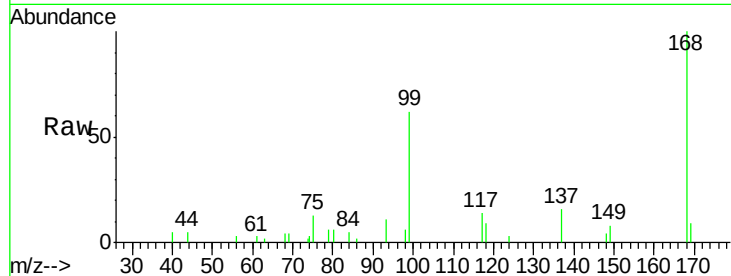




#36
 1,1-Dichloropropene
 Concen: 5.209 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.12 min
 Lab File: VY001538.D
 Acq: 06 Feb 2020 18:03

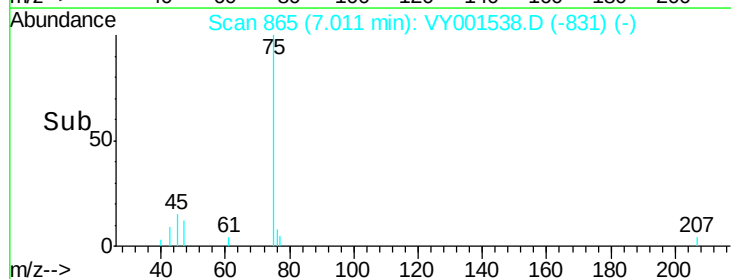
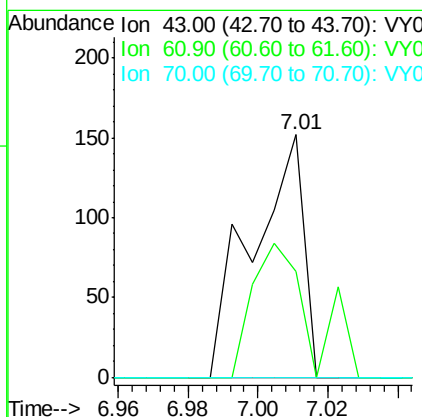
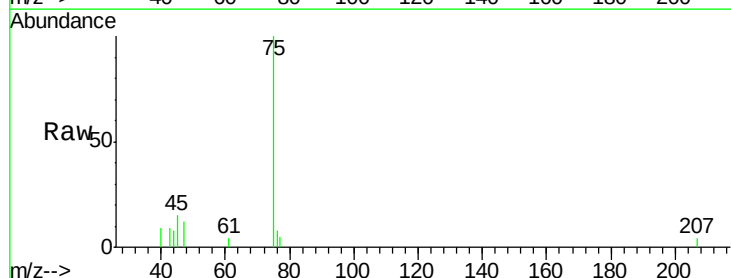
Instrument :
 MSVOA_Y
 ClientSampleId :
 SHORE-RD-PATH-BH-04-ARE

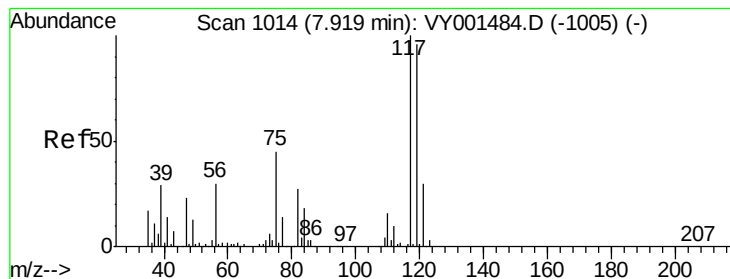
Tot Ion: 75 Resp: 594
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.2 54.6#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 2.808 ug/l
 RT: 7.01 min Scan# 865
 Delta R.T. -0.09 min
 Lab File: VY001538.D
 Acq: 06 Feb 2020 18:03

Tgt Ion: 43 Resp: 155
 Ion Ratio Lower Upper
 43 100
 61 62.6 12.0 18.0#
 70 0.0 10.2 15.4#





#38

Carbon Tetrachloride

Concen: 6.571 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.10 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

SHORE-RD-PATH-BH-04-ARE

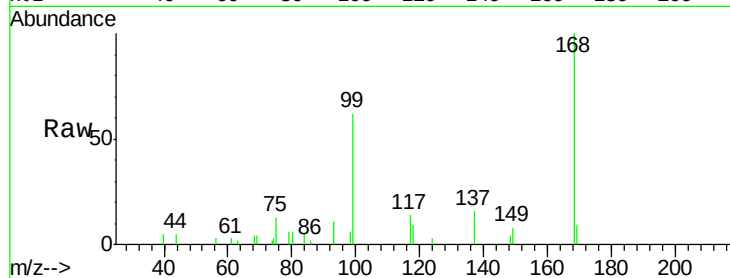
Tot Ion:117 Resp: 725

Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

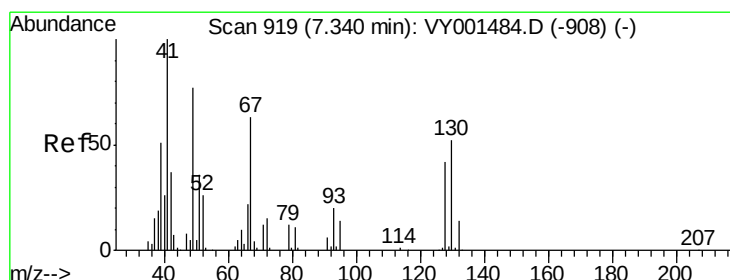
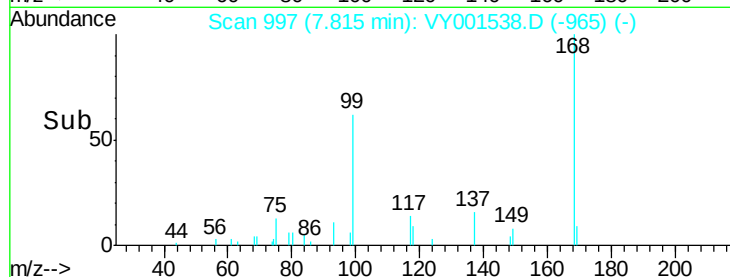
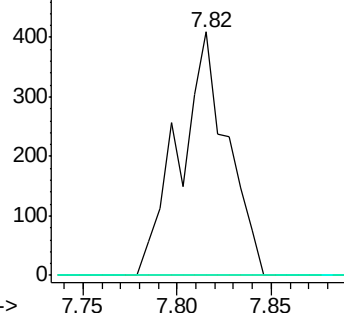
121 0.0 24.2 36.4#



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



#41

Methacrylonitrile

Concen: 1.016 ug/l

RT: 7.38 min Scan# 925

Delta R.T. 0.04 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Tgt Ion: 41 Resp: 26

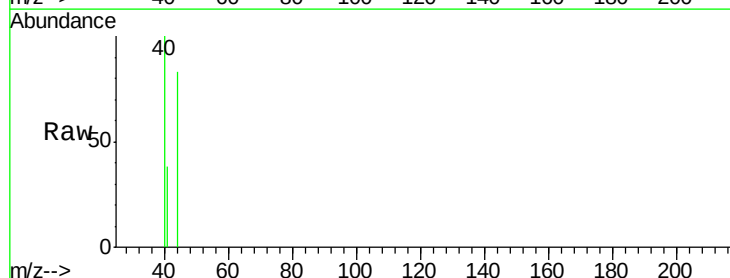
Ion Ratio Lower Upper

41 100

39 0.0 116.8 175.2#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

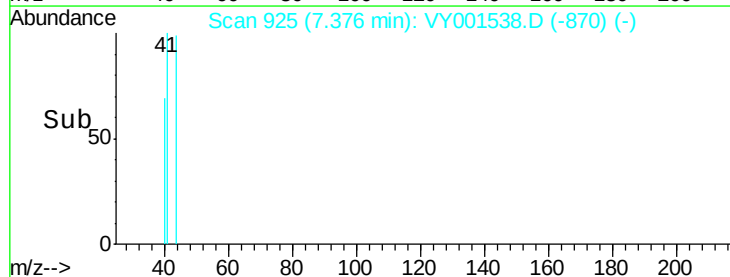
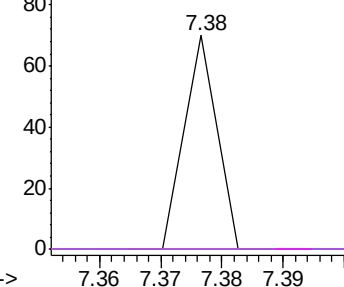


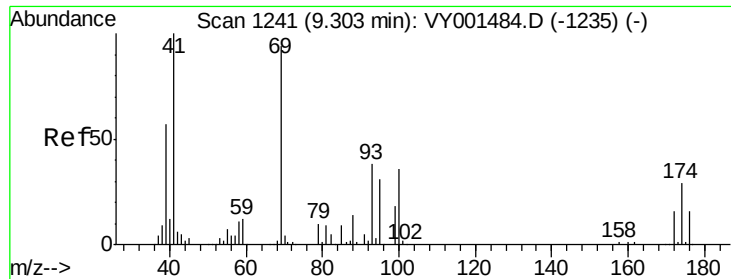
Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 67.00 (66.70 to 67.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

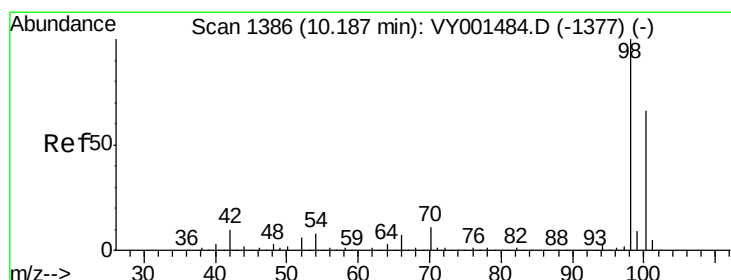
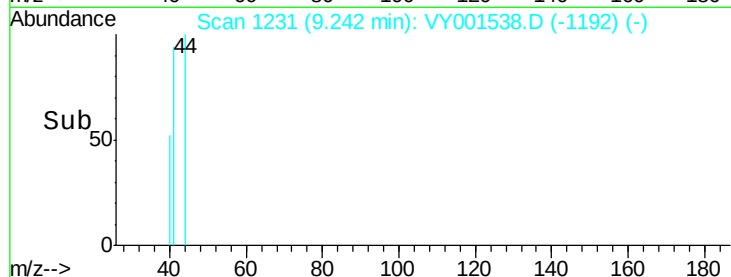
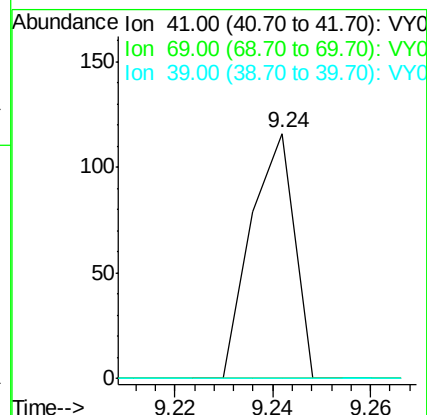
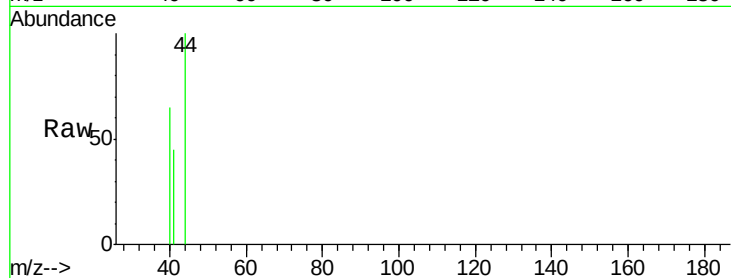




#48
Methyl methacrylate
Concen: 1.431 ug/l
RT: 9.24 min Scan# 1231
Delta R.T. -0.06 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

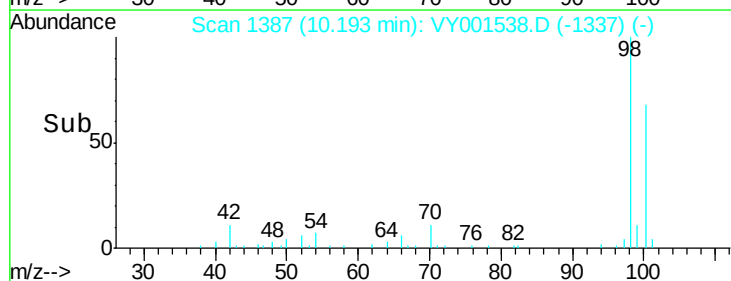
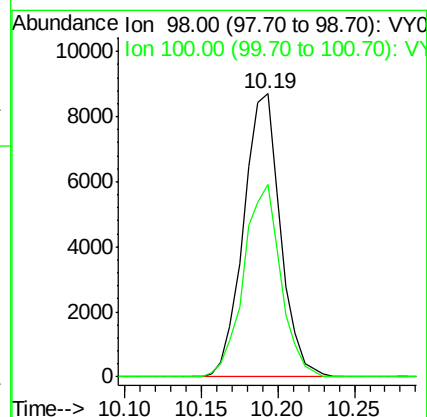
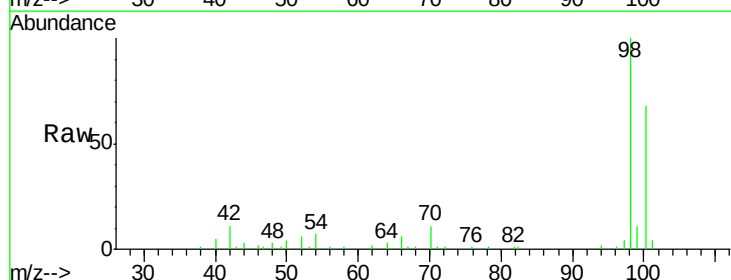
Instrument :
MSVOA_Y
ClientSampleId :
SHORE-RD-PATH-BH-04-ARE

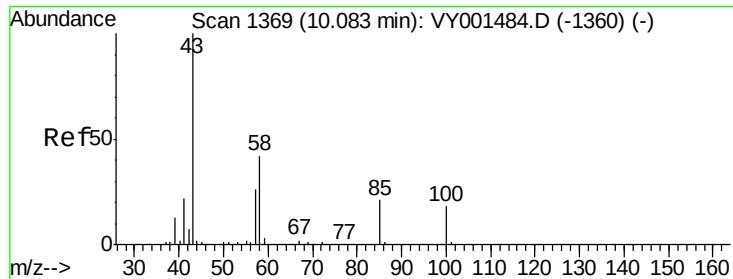
Tot Ion: 41 Resp: 71
Ion Ratio Lower Upper
41 100
69 0.0 76.6 114.8#
39 0.0 45.4 68.0#



#50
Toluene-d8
Concen: 53.366 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.01 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

Tgt Ion: 98 Resp: 14514
Ion Ratio Lower Upper
98 100
100 68.1 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.059 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

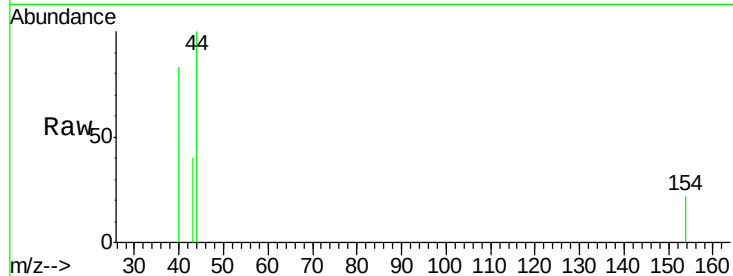
SHORE-RD-PATH-BH-04-ARE

Tot Ion: 43 Resp: 57

Ion Ratio Lower Upper

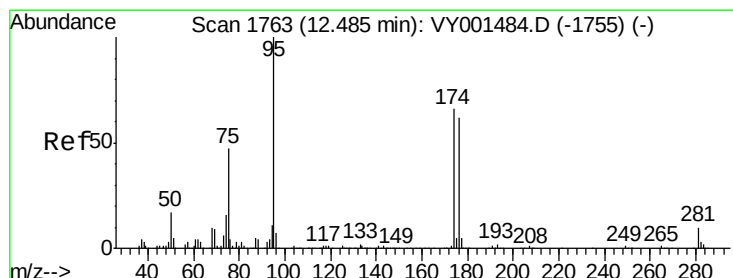
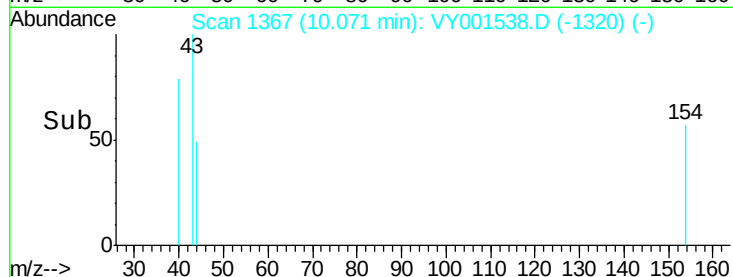
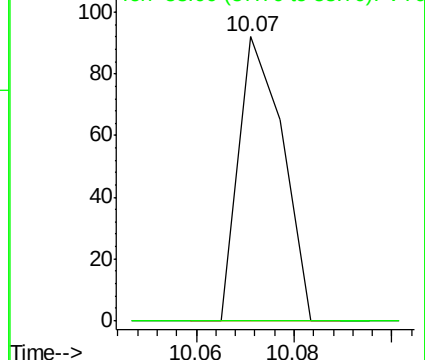
43 100

58 0.0 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 50.848 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

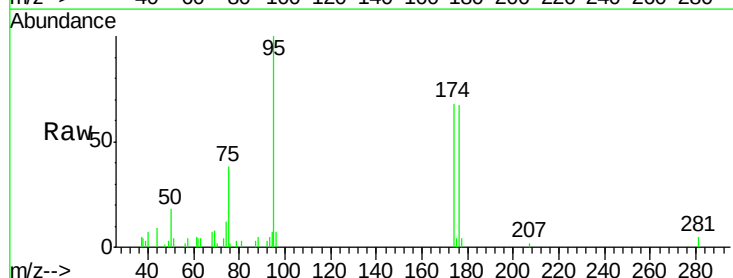
Tgt Ion: 95 Resp: 5448

Ion Ratio Lower Upper

95 100

174 72.9 0.0 141.4

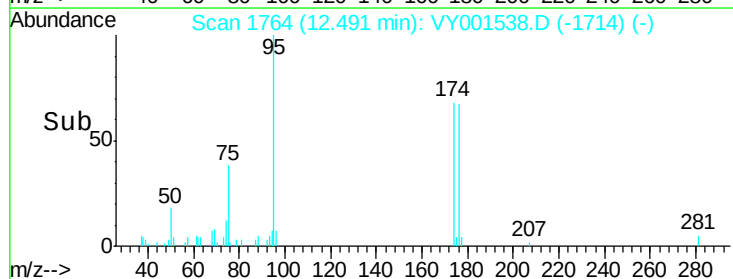
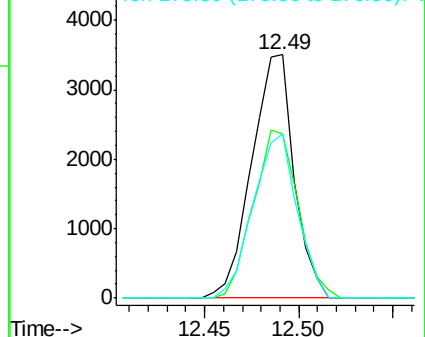
176 70.0 0.0 135.4

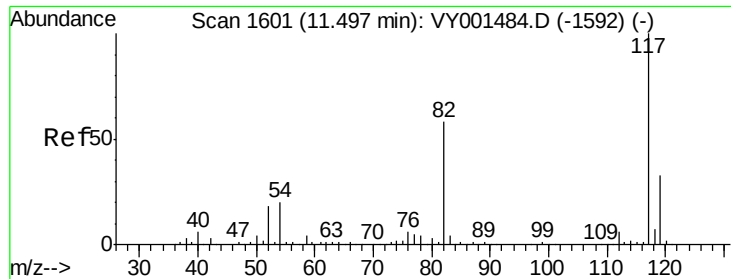


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

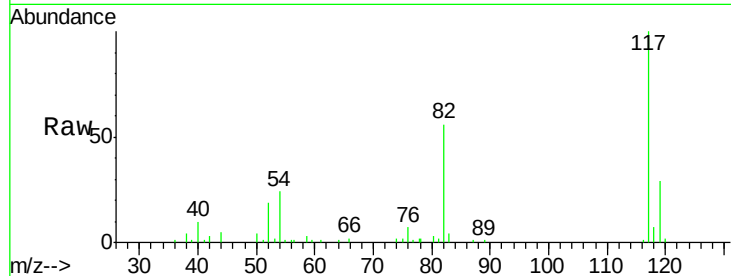




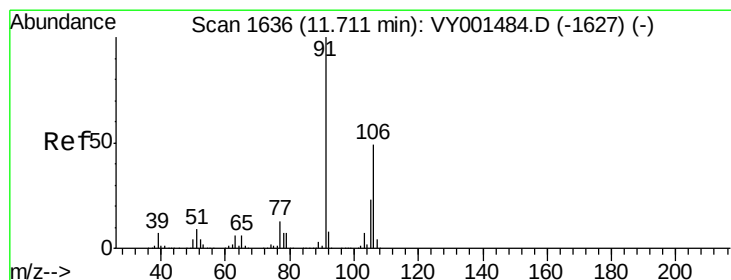
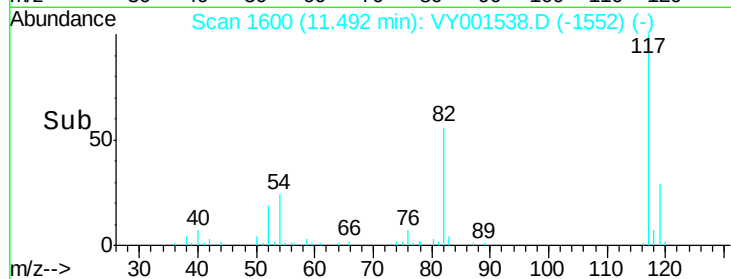
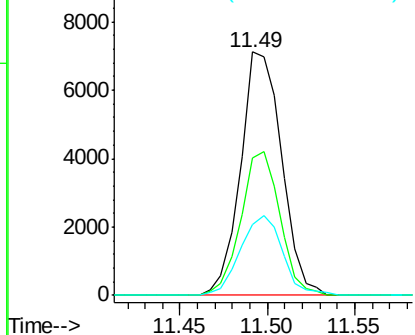
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

Instrument :
MSVOA_Y
ClientSampleId :
SHORE-RD-PATH-BH-04-ARE

Tot Ion:117 Resp: 11688
Ion Ratio Lower Upper
117 100
82 56.2 46.1 69.1
119 29.0 26.1 39.1

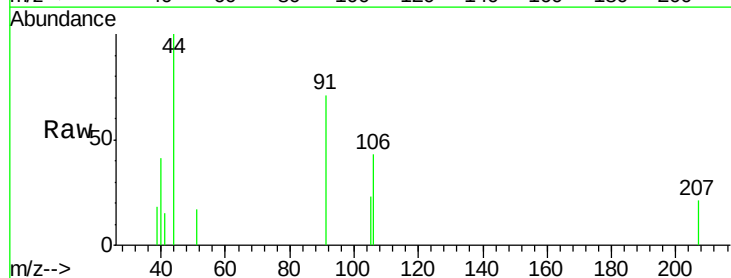


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

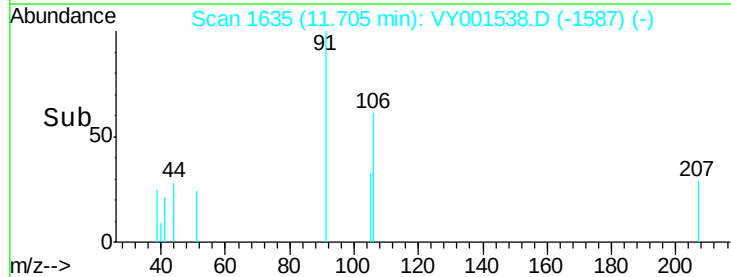
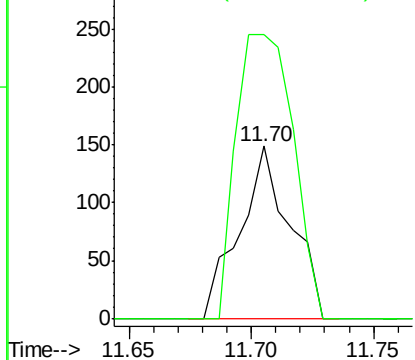


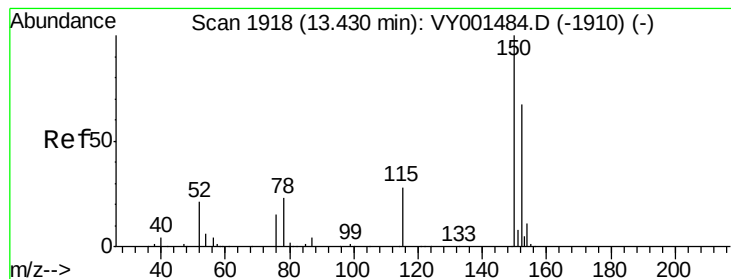
#68
m/p-Xylenes
Concen: 1.350 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001538.D
Acq: 06 Feb 2020 18:03

Tgt Ion:106 Resp: 215
Ion Ratio Lower Upper
106 100
91 186.5 163.6 245.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

SHORE-RD-PATH-BH-04-ARE

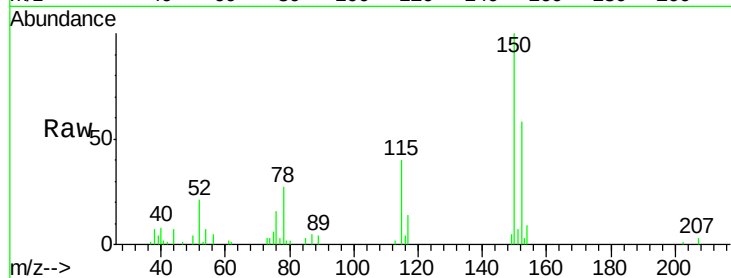
Tot Ion:152 Resp: 4721

Ion Ratio Lower Upper

152 100

115 63.3 31.4 94.3

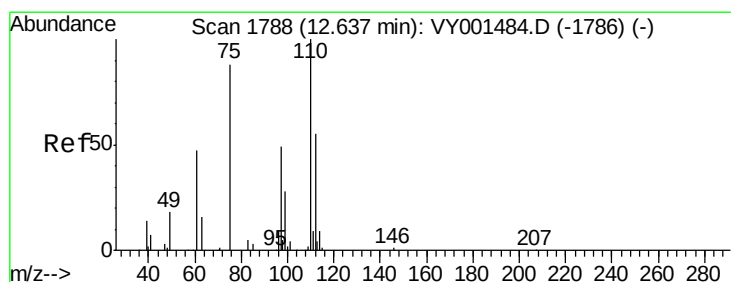
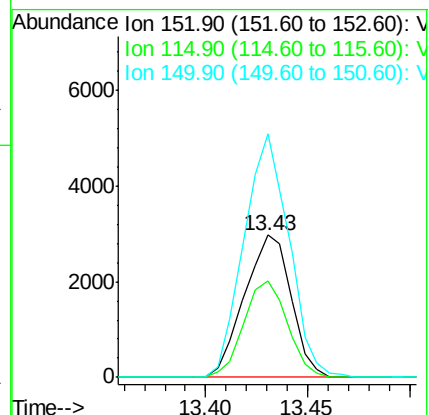
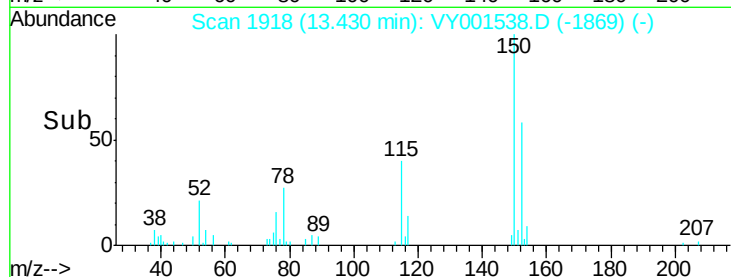
150 165.3 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 52.610 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001538.D

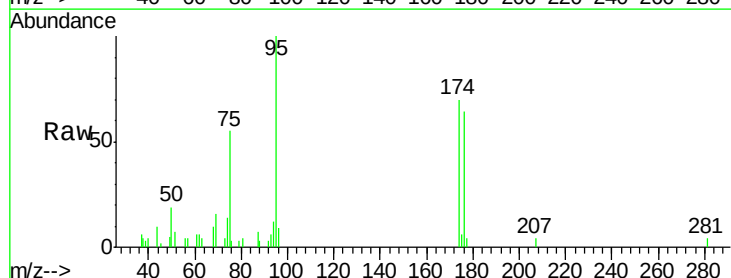
Acq: 06 Feb 2020 18:03

Tgt Ion: 75 Resp: 2671

Ion Ratio Lower Upper

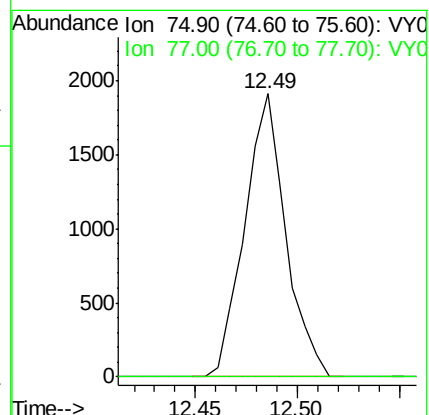
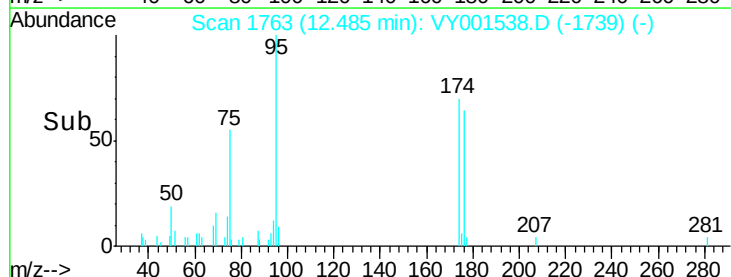
75 100

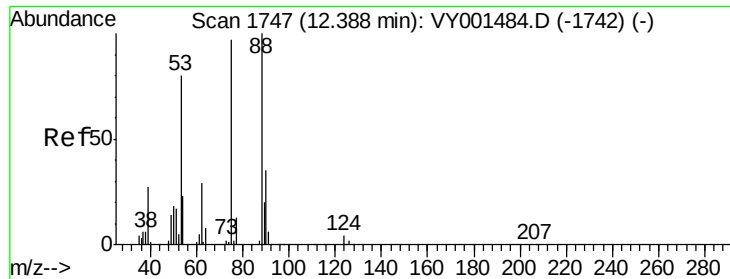
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 101.798 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

Instrument :

MSVOA_Y

ClientSampleId :

SHORE-RD-PATH-BH-04-ARE

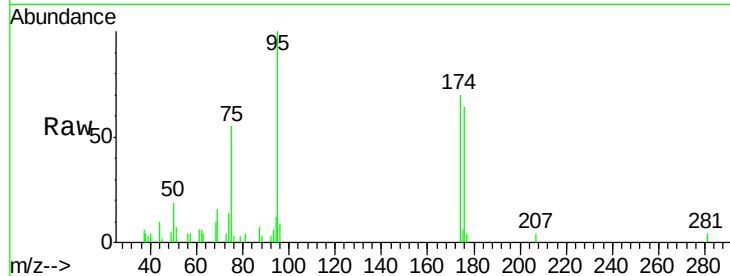
Tot Ion: 75 Resp: 2671

Ion Ratio Lower Upper

75 100

53 0.0 67.7 101.5#

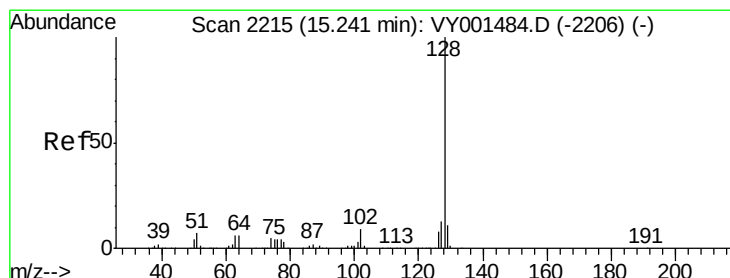
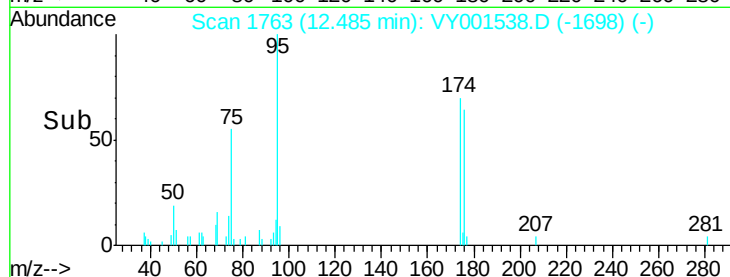
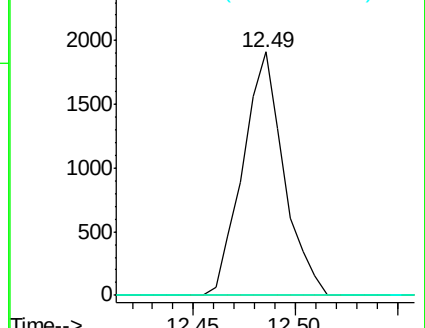
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#95

Naphthalene

Concen: 3.373 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VY001538.D

Acq: 06 Feb 2020 18:03

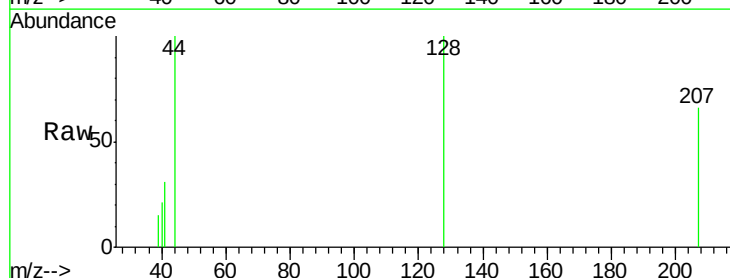
Tgt Ion: 128 Resp: 723

Ion Ratio Lower Upper

128 100

127 3.0 10.1 15.1#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

