

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101719\
 Data File : VY000335.D
 Acq On : 17 Oct 2019 10:43
 Operator : SY/MD
 Sample : VY1017SBL01
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 17 17:58:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 17 02:03:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	296320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	498753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	433275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	187368	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	167743	53.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.34%	
35) Dibromofluoromethane	7.73	113	145326	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	10.18	98	585394	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.49	95	195982	44.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.14%	

Target Compounds

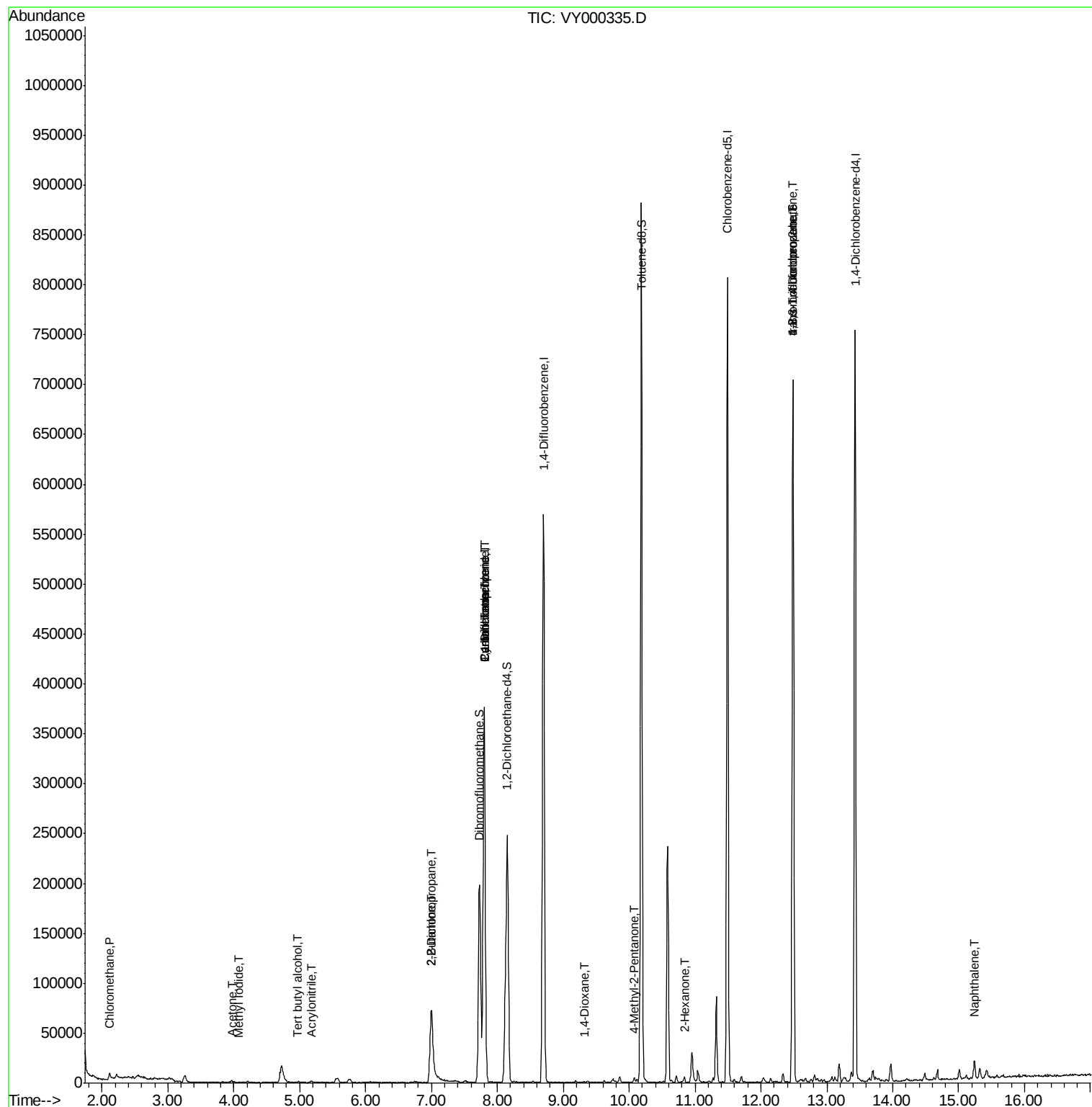
					Qvalue
2) Dichlorodifluoromethane	1.90	85	279	Below Cal	94
3) Chloromethane	2.12	50	4398	1.215 ug/l	96
10) Methyl Iodide	4.08	142	53	1.198 ug/l #	86
11) Tert butyl alcohol	4.96	59	380	1.162 ug/l #	73
15) Acrylonitrile	5.18	53	1720	1.740 ug/l #	44
16) Acetone	3.97	43	3031	2.994 ug/l #	58
20) Methylene Chloride	4.72	84	11892	Below Cal	93
25) 2-Butanone	7.00	43	5608	3.933 ug/l	94
26) 2,2-Dichloropropane	7.00	77	6387	1.211 ug/l #	52
31) Cyclohexane	7.80	56	7366	1.232 ug/l #	8
36) 1,1-Dichloropropene	7.80	75	24256	4.967 ug/l #	48
38) Carbon Tetrachloride	7.80	117	30207	6.389 ug/l #	18
49) 1,4-Dioxane	9.32	88	127	4.375 ug/l #	49
51) 4-Methyl-2-Pentanone	10.08	43	3459	1.220 ug/l	100
59) 2-Hexanone	10.83	43	3787	1.903 ug/l	97
76) 1,2,3-Trichloropropane	12.49	75	103206	44.795 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	103206	98.009 ug/l #	14
95) Naphthalene	15.23	128	13605	1.511 ug/l	98

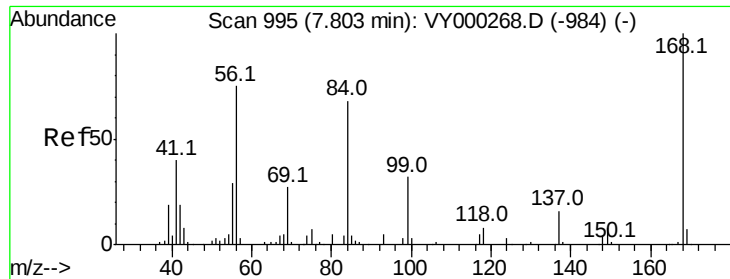
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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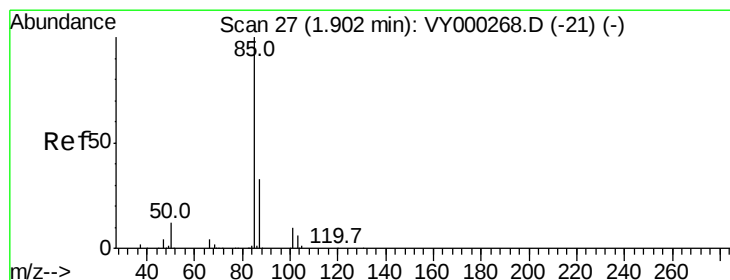
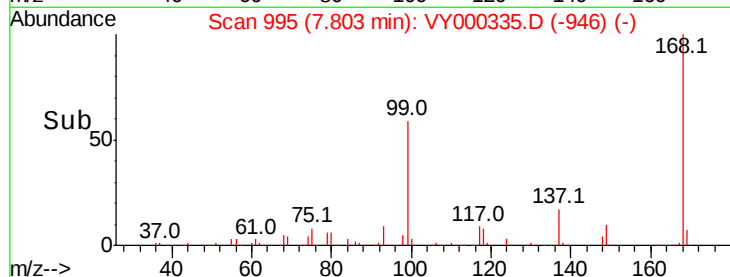
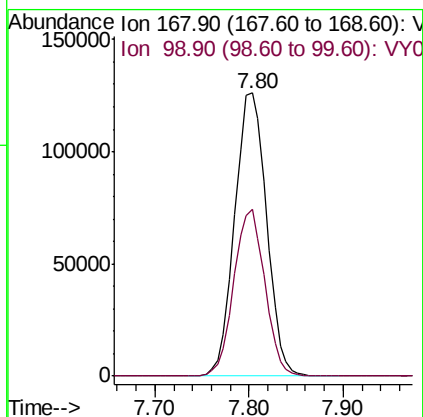
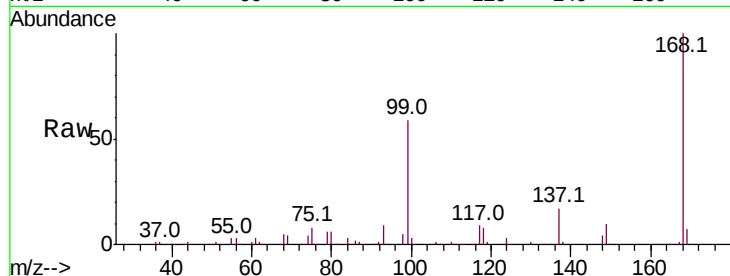




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.00 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

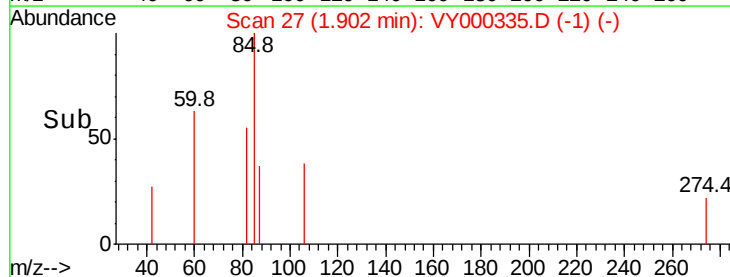
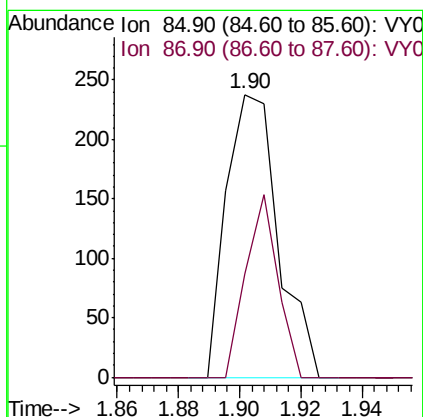
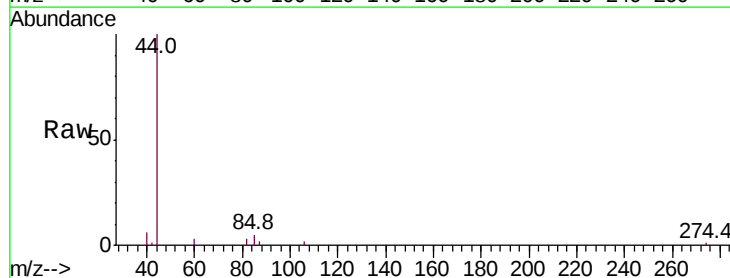
Instrument :
MSVOA_Y
ClientSampled :

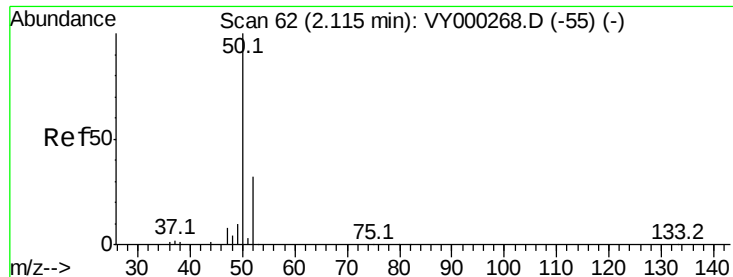
Tot Ion:168 Resp: 296320
Ion Ratio Lower Upper
168 100
99 59.1 46.6 69.8



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.90 min Scan# 27
Delta R.T. 0.00 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Tgt Ion: 85 Resp: 279
Ion Ratio Lower Upper
85 100
87 36.6 16.6 49.8





#3

Chloromethane

Concen: 1.215 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

Instrument :

MSVOA_Y

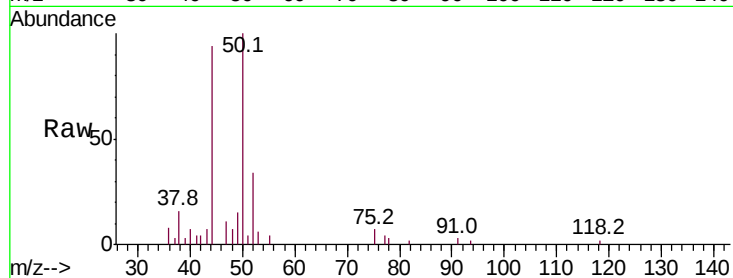
ClientSampleId :

Tot Ion: 50 Resp: 4398

Ion Ratio Lower Upper

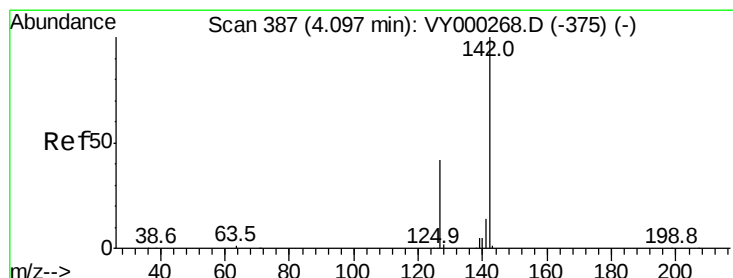
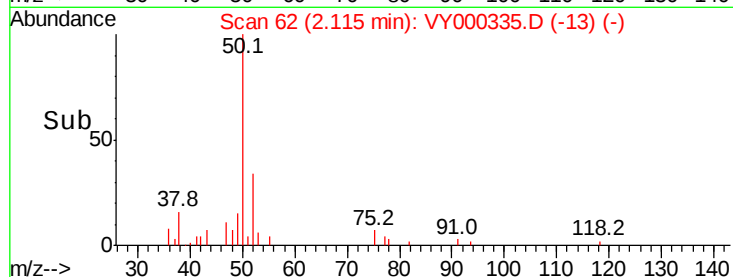
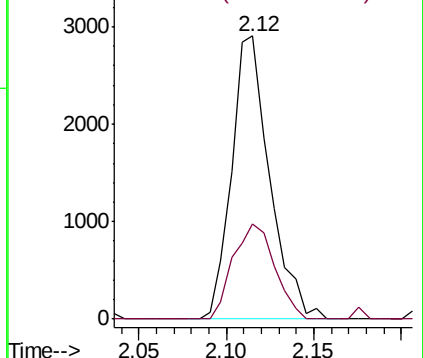
50 100

52 33.6 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#10

Methyl Iodide

Concen: 1.198 ug/l

RT: 4.08 min Scan# 384

Delta R.T. -0.02 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

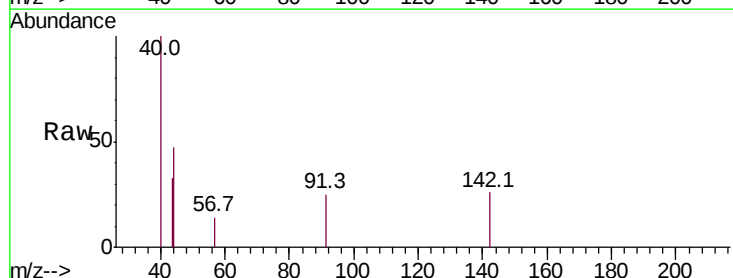
Tgt Ion: 142 Resp: 53

Ion Ratio Lower Upper

142 100

127 37.7 33.9 50.9

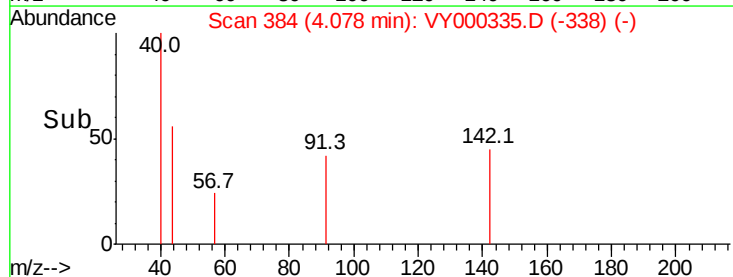
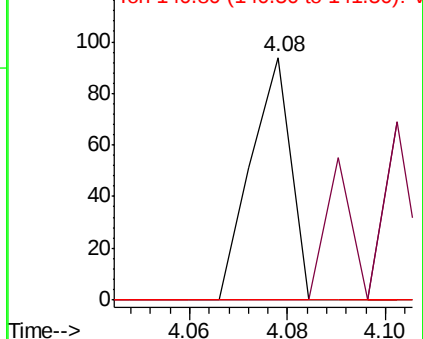
141 0.0 11.2 16.8#

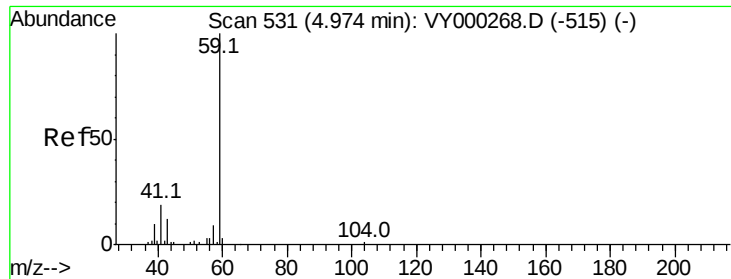


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

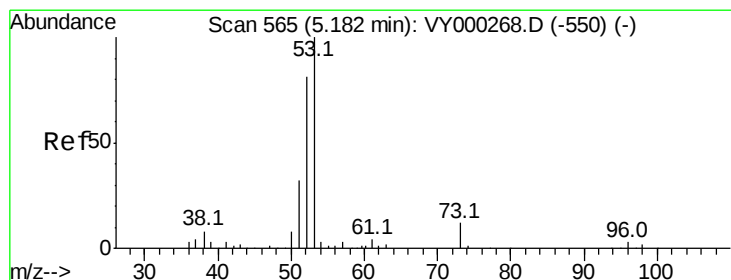
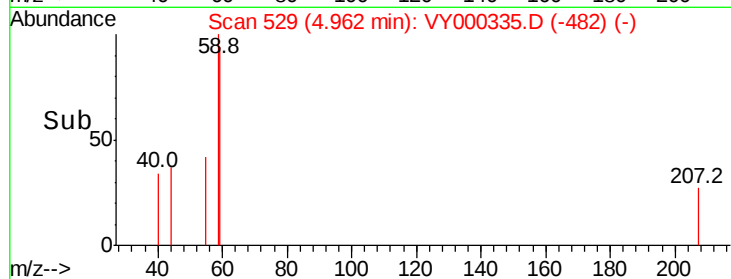
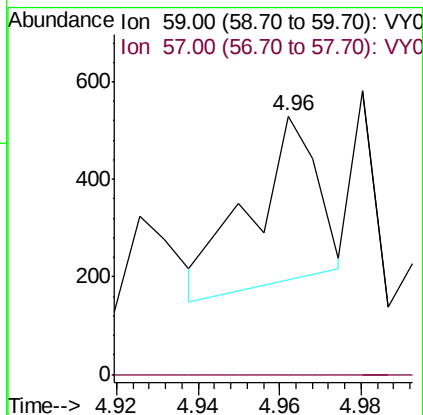
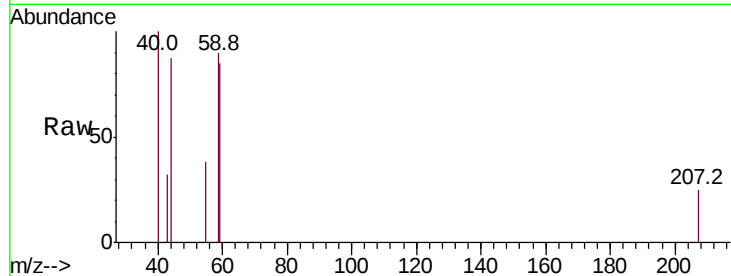




#11
Tert butyl alcohol
Concen: 1.162 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.01 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

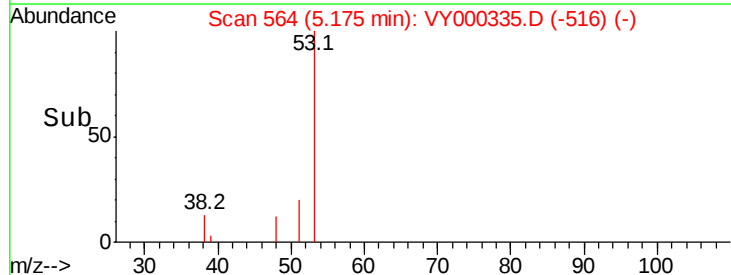
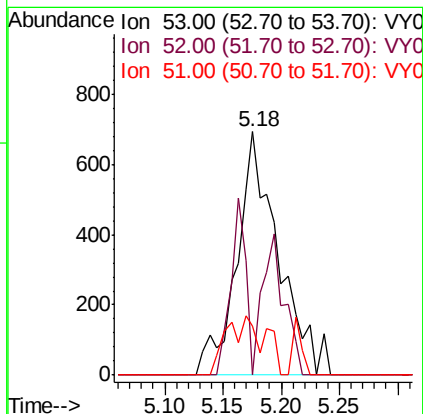
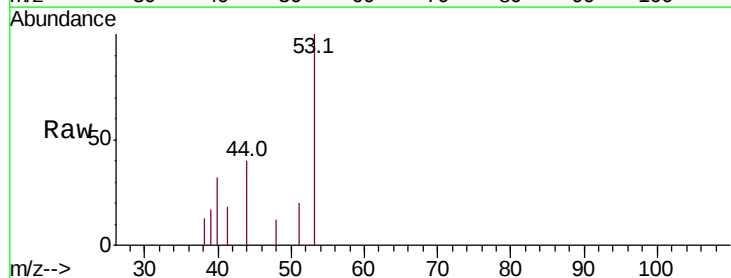
Instrument :
MSVOA_Y
ClientSampleId :

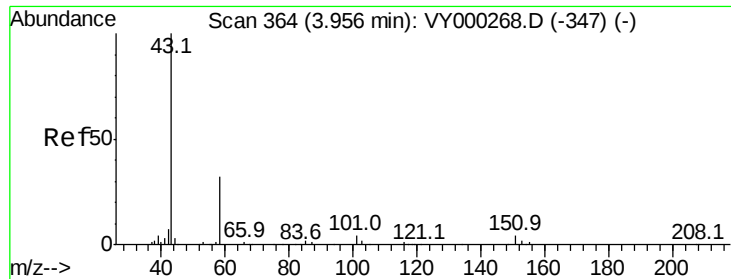
Tot Ion: 59 Resp: 380
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#15
Acrylonitrile
Concen: 1.740 ug/l
RT: 5.18 min Scan# 564
Delta R.T. -0.01 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Tgt Ion: 53 Resp: 1720
Ion Ratio Lower Upper
53 100
52 30.3 62.9 94.3#
51 0.0 26.9 40.3#

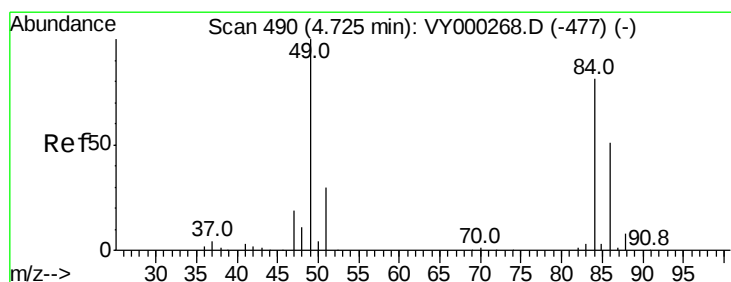
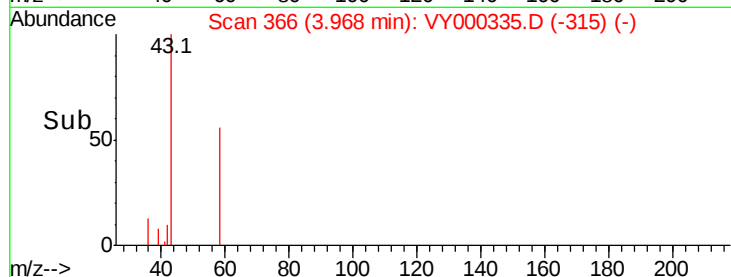
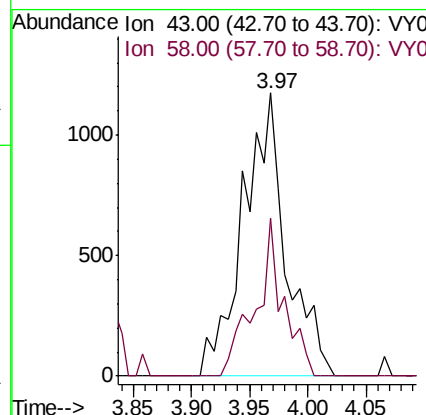
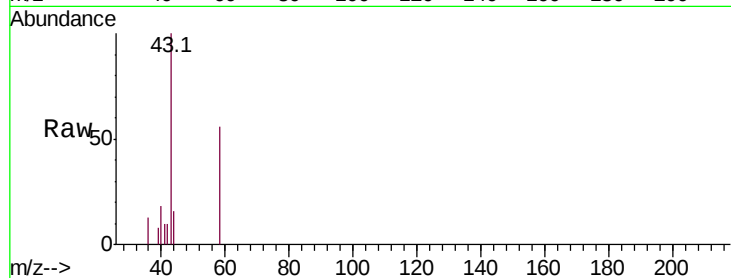




#16
Acetone
Concen: 2.994 ug/l
RT: 3.97 min Scan# 366
Delta R.T. 0.01 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

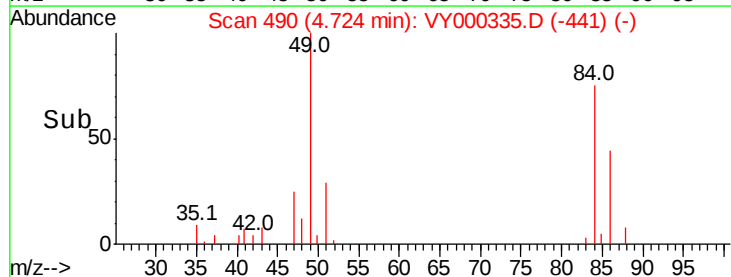
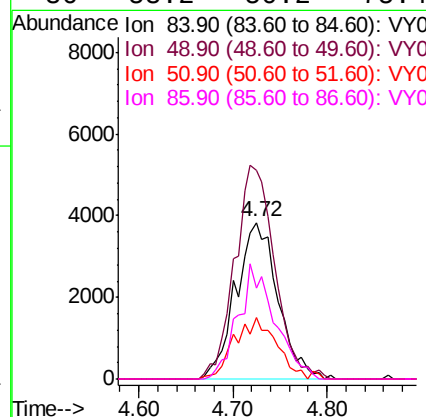
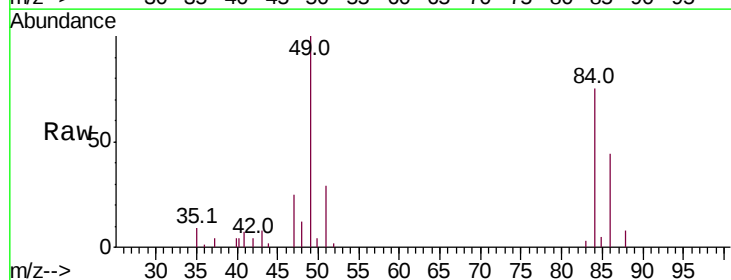
Instrument :
MSVOA_Y
ClientSampleId :

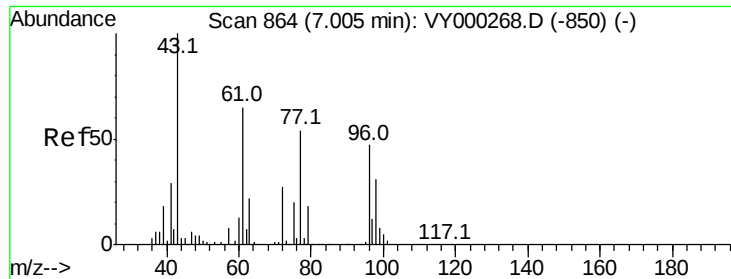
Tot Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
58 55.7 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Tgt Ion: 84 Resp: 11892
Ion Ratio Lower Upper
84 100
49 133.4 99.0 148.4
51 38.8 29.3 43.9
86 58.2 50.2 75.4





#25

2-Butanone

Concen: 3.933 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

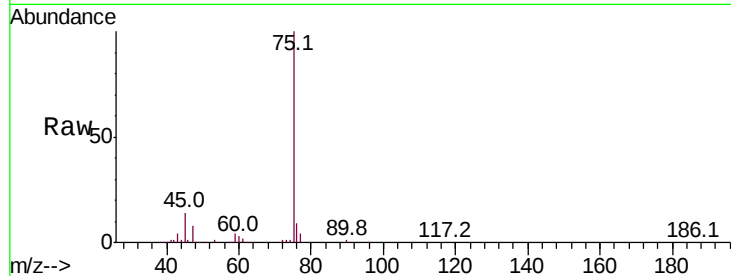
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 5608

Ion Ratio Lower Upper

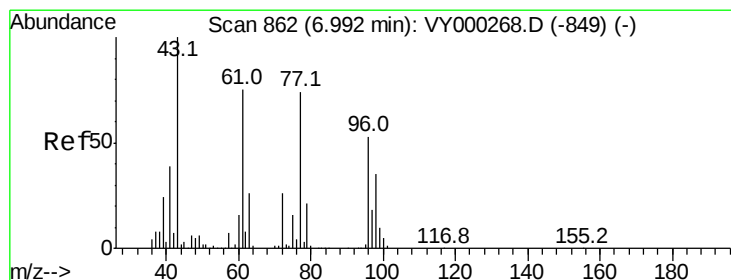
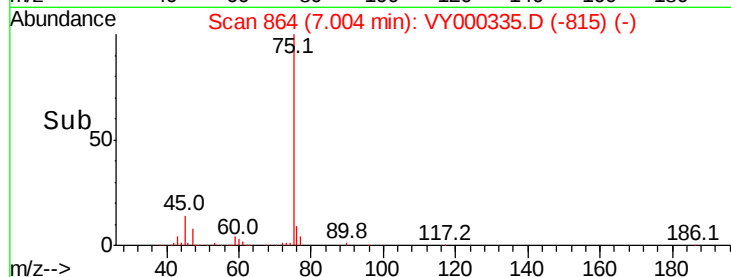
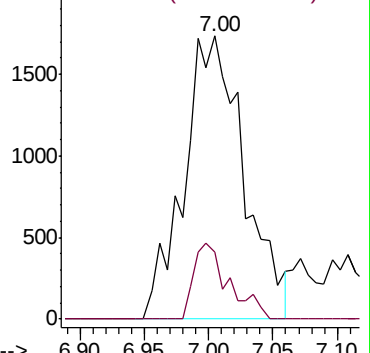
43 100

72 23.6 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 1.211 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY000335.D

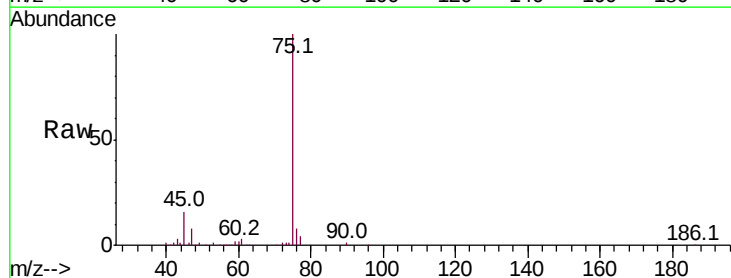
Acq: 17 Oct 2019 10:43

Tgt Ion: 77 Resp: 6387

Ion Ratio Lower Upper

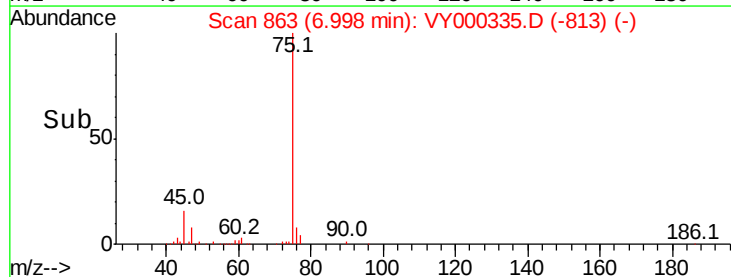
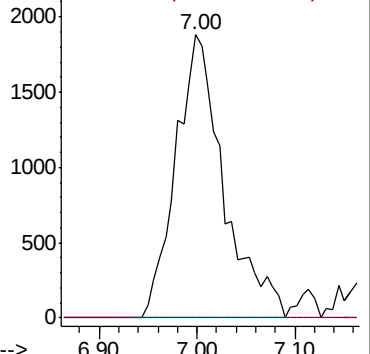
77 100

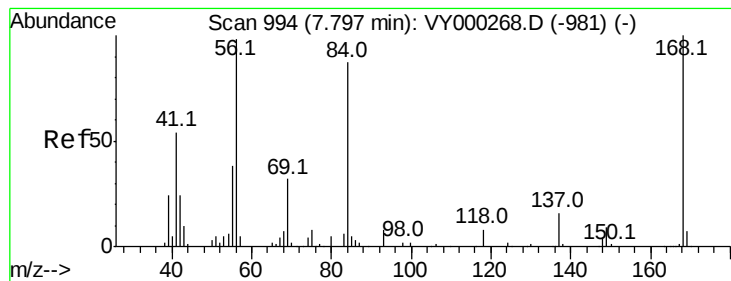
97 0.0 11.6 34.7#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0





#31

Cyclohexane

Concen: 1.232 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

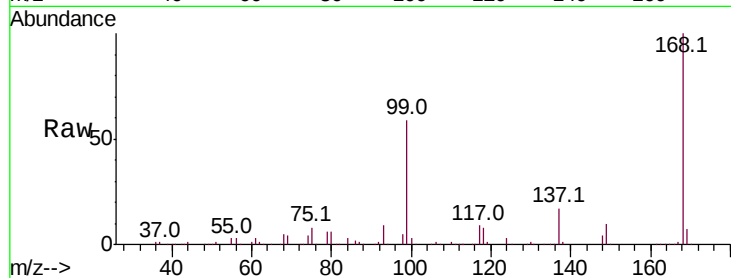
Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

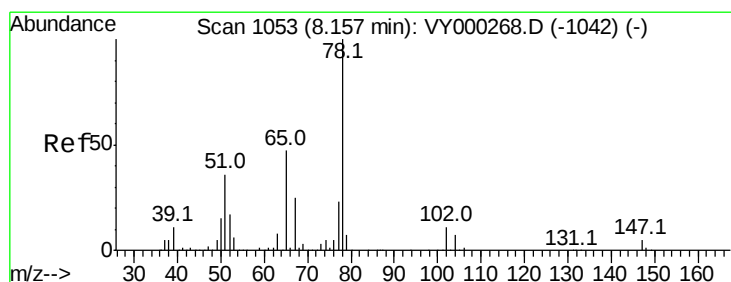
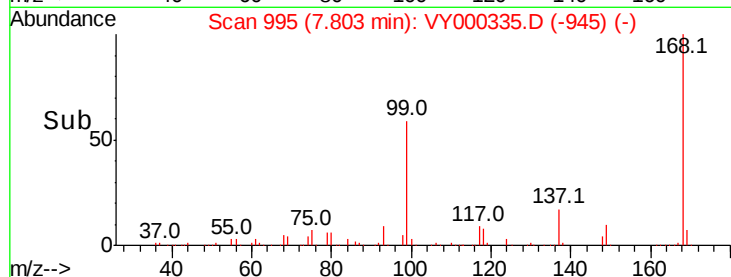
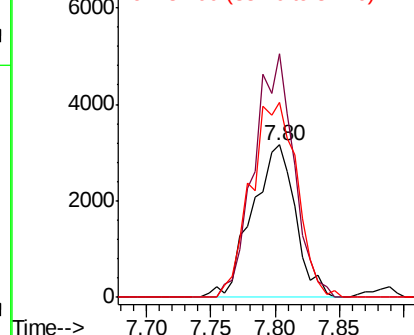
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 7366

Ion	Ratio	Lower	Upper
56	100		
69	159.9	26.3	39.5#
84	127.9	70.8	106.2#



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: 53.666 ug/l

RT: 8.15 min Scan# 1052

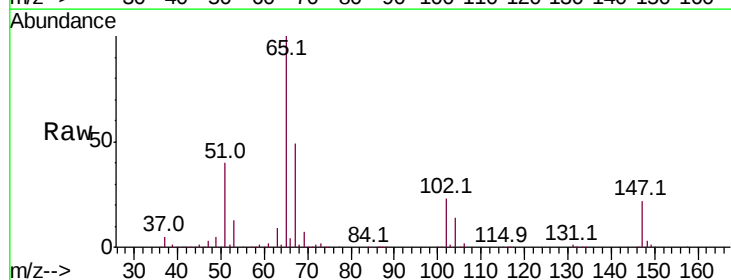
Delta R.T. -0.01 min

Lab File: VY000335.D

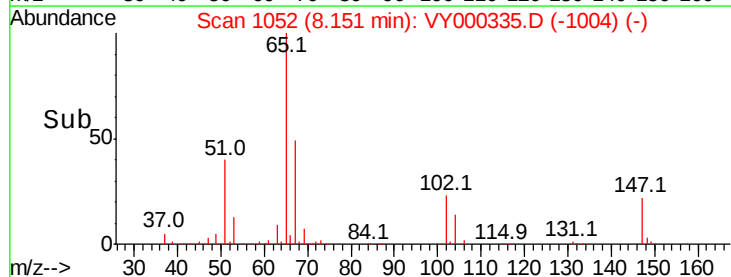
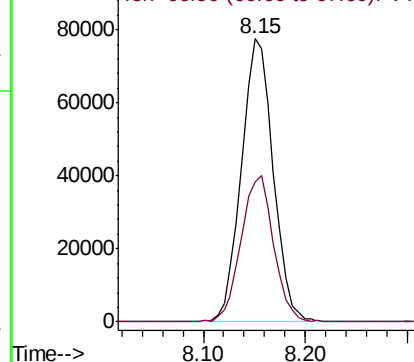
Acq: 17 Oct 2019 10:43

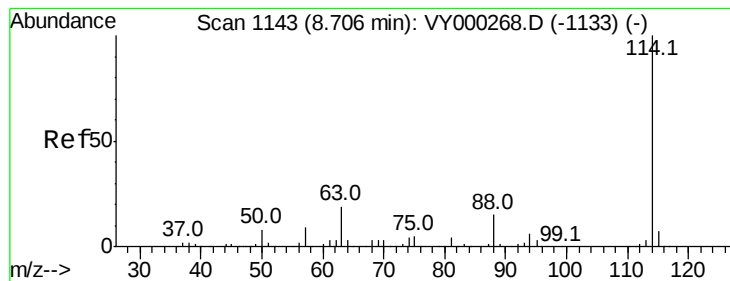
Tgt Ion: 65 Resp: 167743

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	109.4



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: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

Instrument :
MSVOA_Y
ClientSampleId :

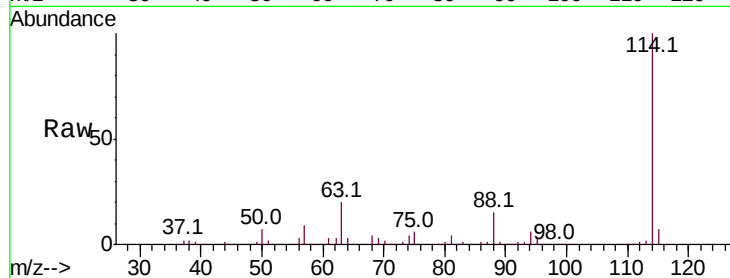
Tot Ion:114 Resp: 498753

Ion Ratio Lower Upper

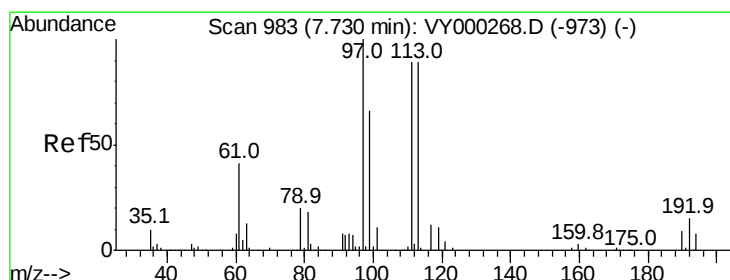
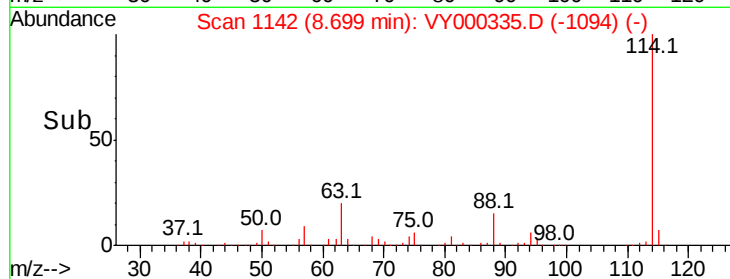
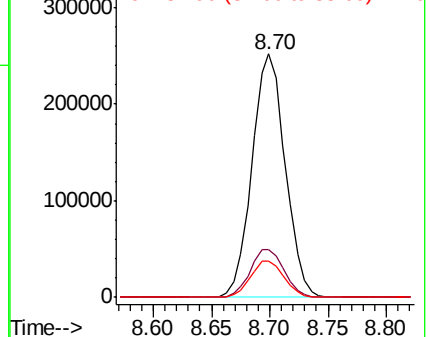
114 100

63 19.6 0.0 37.2

88 14.8 0.0 30.2



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: 48.305 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

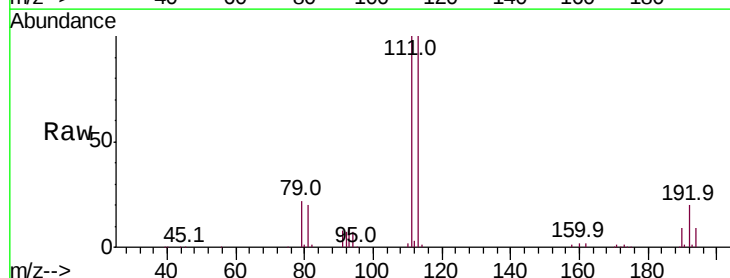
Tgt Ion:113 Resp: 145326

Ion Ratio Lower Upper

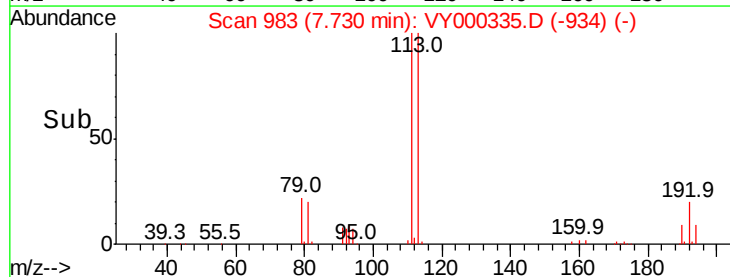
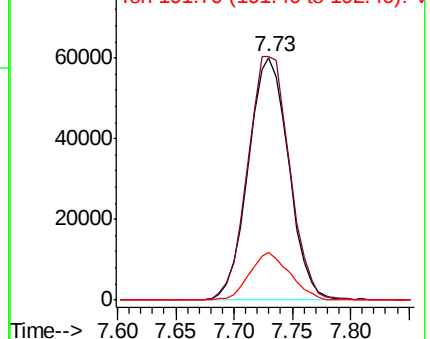
113 100

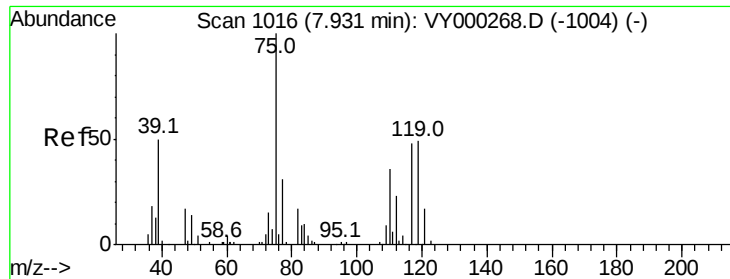
111 104.5 81.6 122.4

192 19.5 15.3 22.9



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

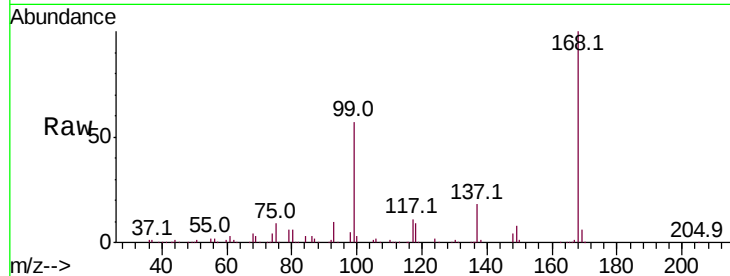




#36
 1,1-Dichloropropene
 Concen: 4.967 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000335.D
 Acq: 17 Oct 2019 10:43

Instrument :
 MSVOA_Y
 ClientSampled :

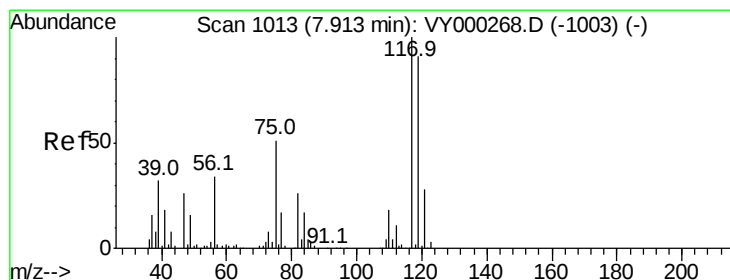
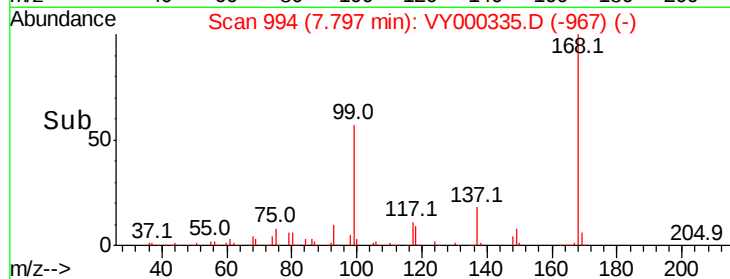
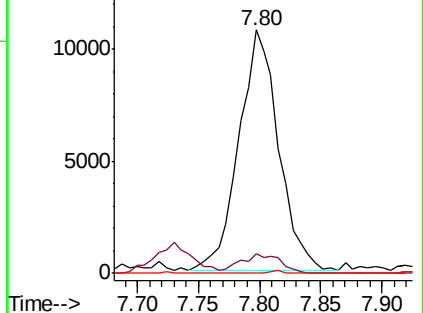
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.4	55.4#
77	0.3	25.0	37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY000335.D (-967) (-)

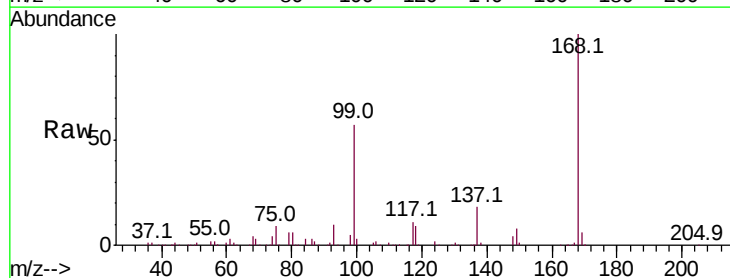
Ion 109.90 (109.60 to 110.60): VY000335.D (-967) (-)

Ion 76.90 (76.60 to 77.60): VY000335.D (-967) (-)



#38
 Carbon Tetrachloride
 Concen: 6.389 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VY000335.D
 Acq: 17 Oct 2019 10:43

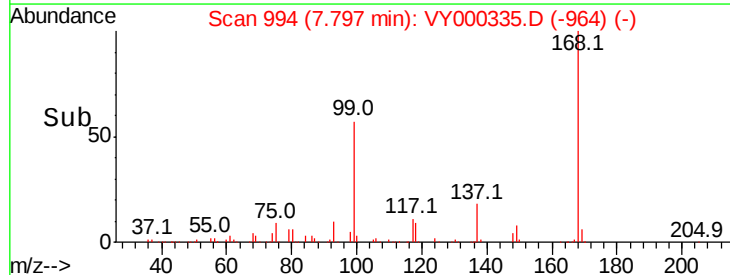
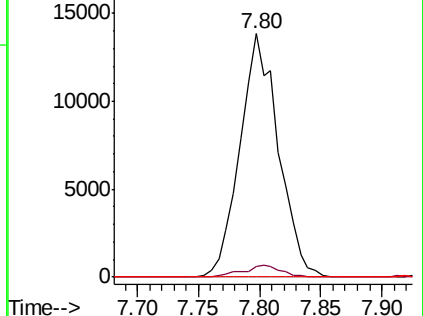
Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	72.8	109.2#
121	0.0	22.2	33.2#

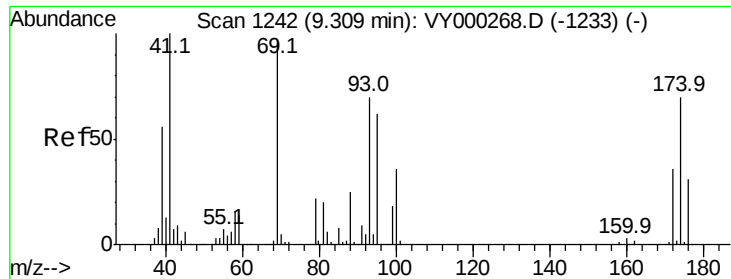


Abundance Ion 116.80 (116.50 to 117.50): VY000335.D (-964) (-)

Ion 118.80 (118.50 to 119.50): VY000335.D (-964) (-)

Ion 120.80 (120.50 to 121.50): VY000335.D (-964) (-)





#49

1,4-Dioxane

Concen: 4.375 ug/l

RT: 9.32 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

Instrument :
MSVOA_Y
ClientSampleId :

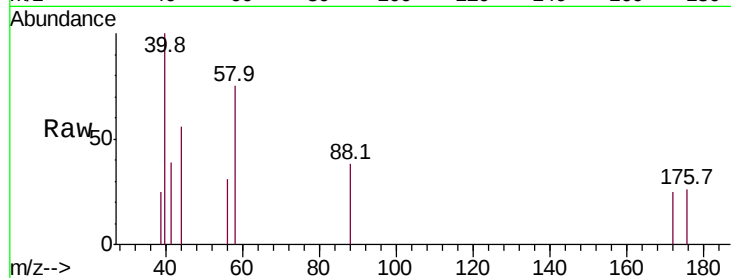
Tot Ion: 88 Resp: 127

Ion Ratio Lower Upper

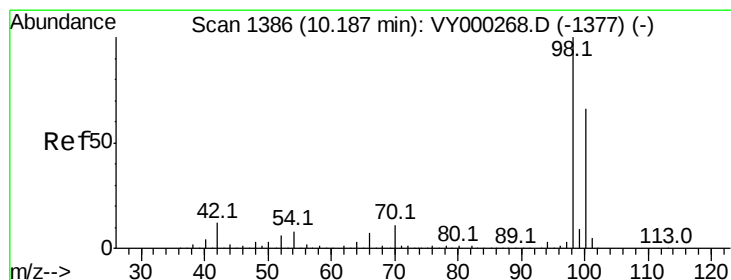
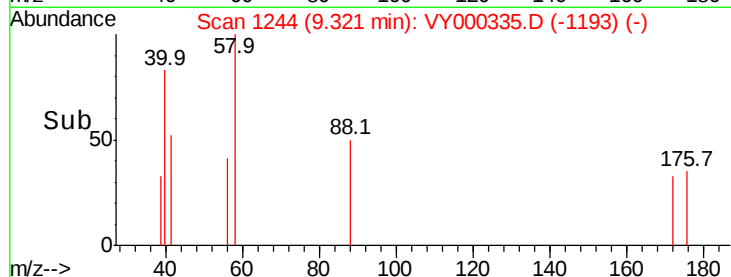
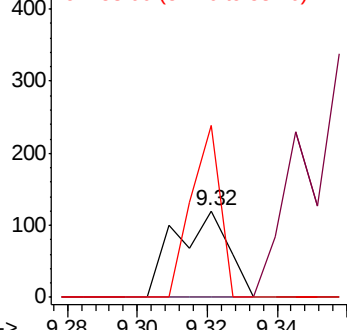
88 100

43 0.0 25.6 38.4#

58 107.1 54.6 81.8#



Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0



#50

Toluene-d8

Concen: 50.583 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY000335.D

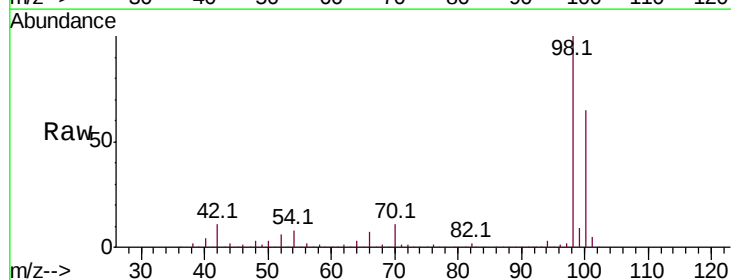
Acq: 17 Oct 2019 10:43

Tgt Ion: 98 Resp: 585394

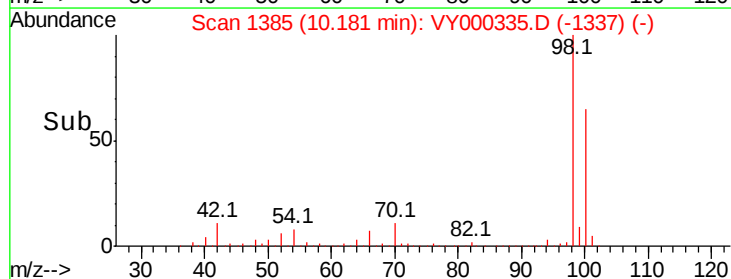
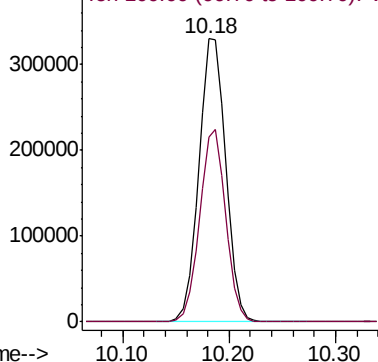
Ion Ratio Lower Upper

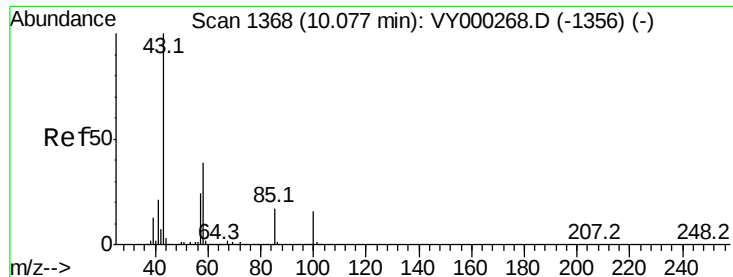
98 100

100 65.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 1.220 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

Instrument :

MSVOA_Y

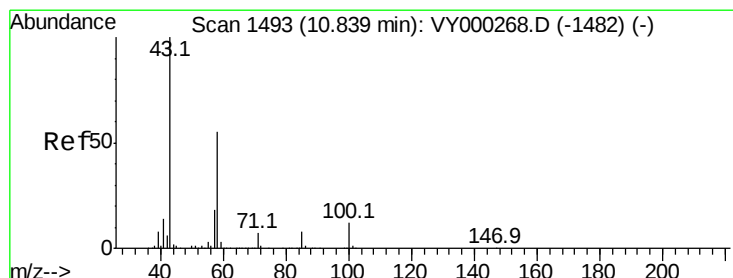
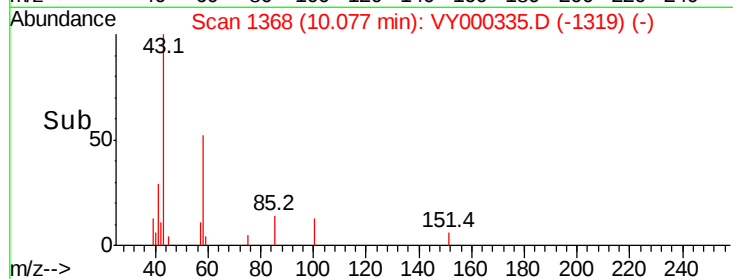
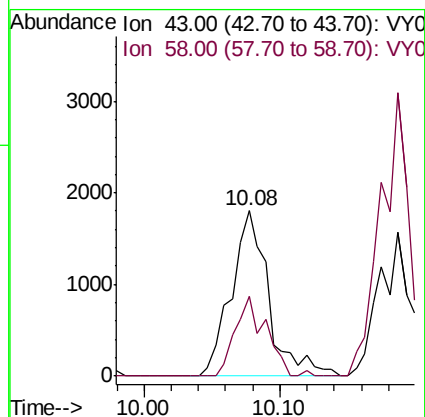
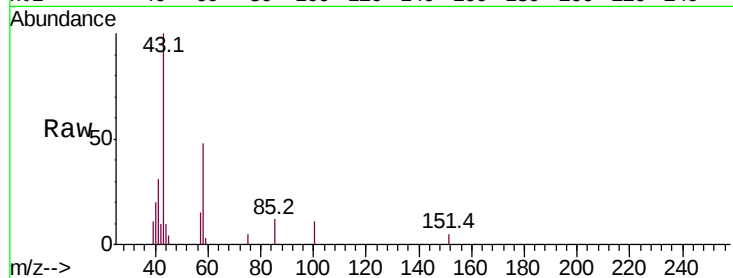
ClientSampleId :

Tot Ion: 43 Resp: 3459

Ion Ratio Lower Upper

43 100

58 39.0 31.0 46.6



#59

2-Hexanone

Concen: 1.903 ug/l

RT: 10.83 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VY000335.D

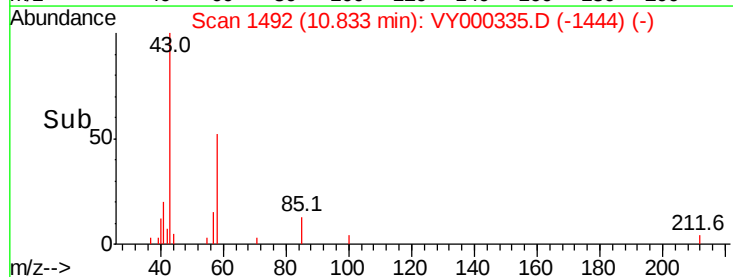
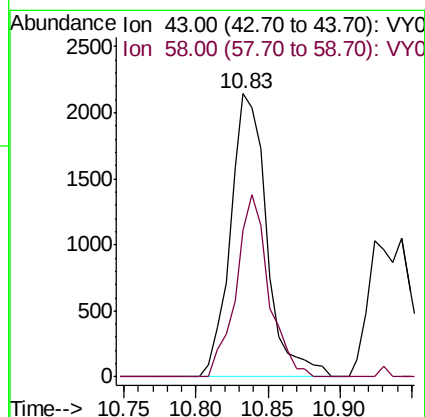
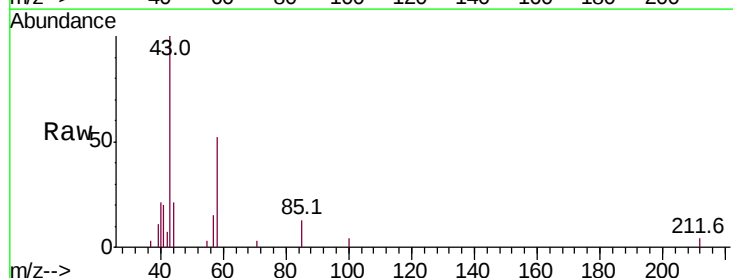
Acq: 17 Oct 2019 10:43

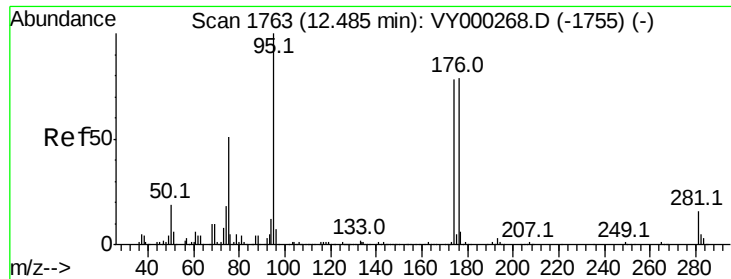
Tgt Ion: 43 Resp: 3787

Ion Ratio Lower Upper

43 100

58 57.5 27.7 83.1

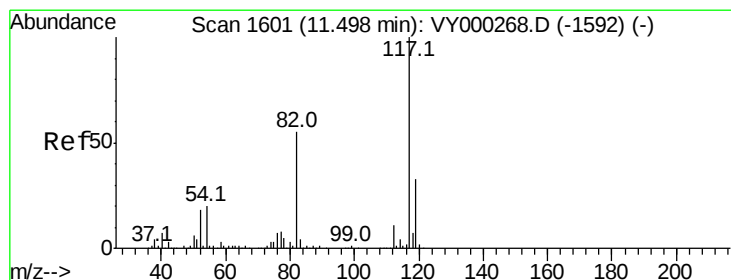
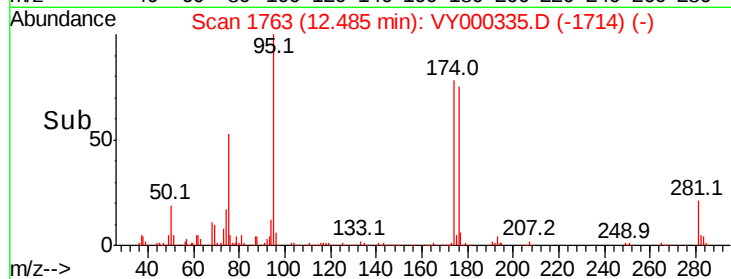
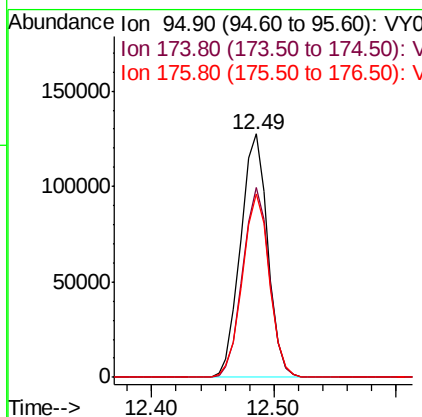
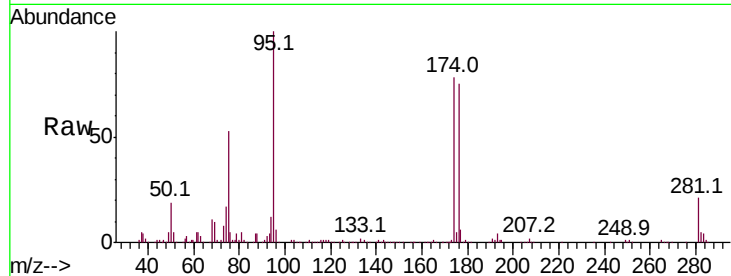




#62
4-Bromofluorobenzene
Concen: 44.575 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

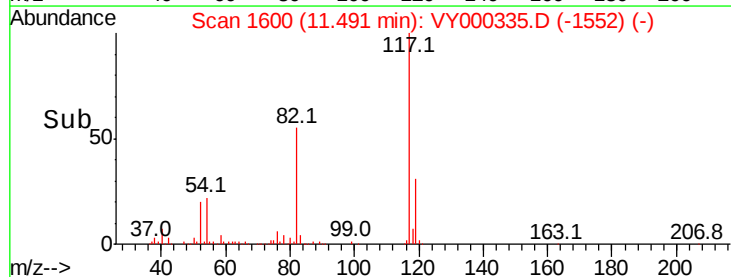
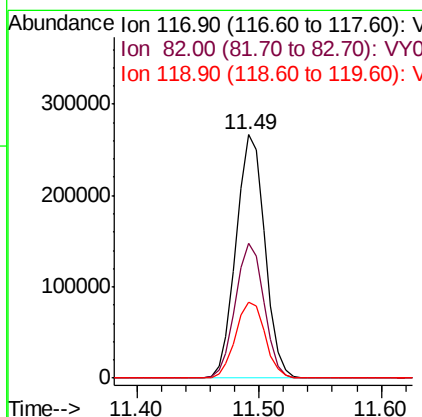
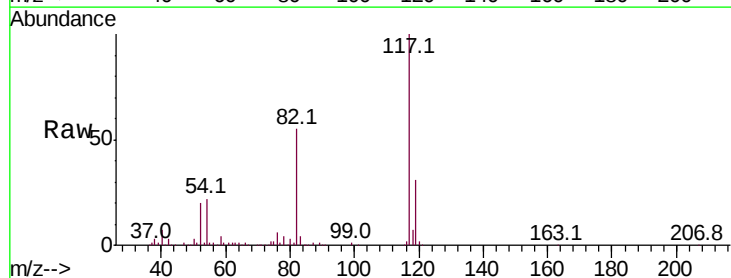
Instrument :
MSVOA_Y
ClientSampleId :

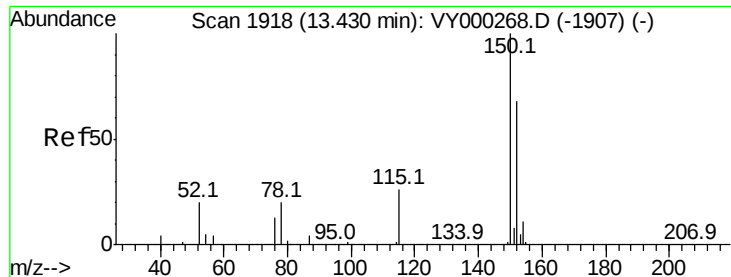
Tot Ion	95	Resp	195982
Ion Ratio	Lower	Upper	
95	100		
174	76.5	0.0	159.6
176	75.0	0.0	153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Tgt Ion	117	Resp	433275
Ion Ratio	Lower	Upper	
117	100		
82	55.2	43.7	65.5
119	31.0	26.6	39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VY000335.D

Acq: 17 Oct 2019 10:43

Instrument :

MSVOA_Y

ClientSampled :

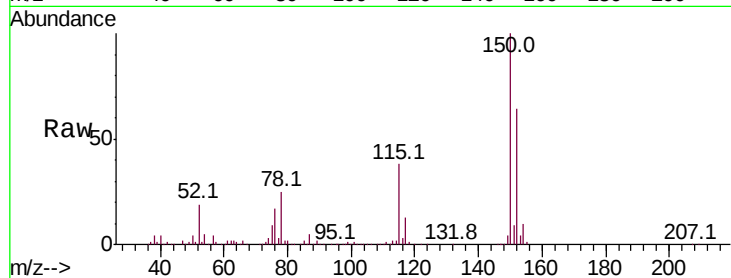
Tot Ion:152 Resp: 187368

Ion Ratio Lower Upper

152 100

115 59.5 29.3 88.0

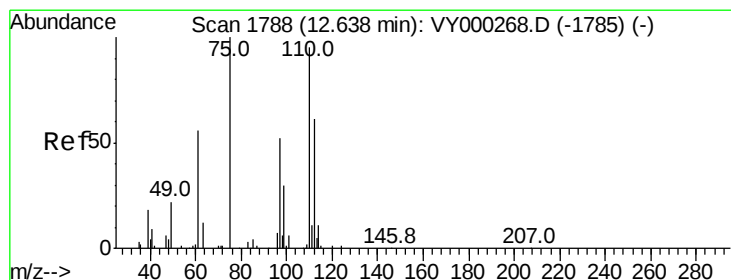
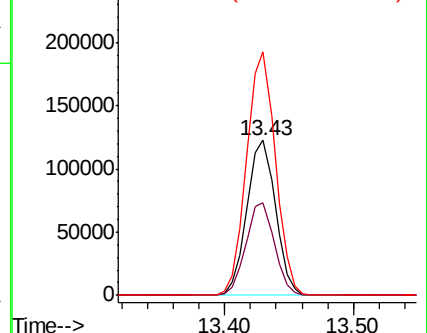
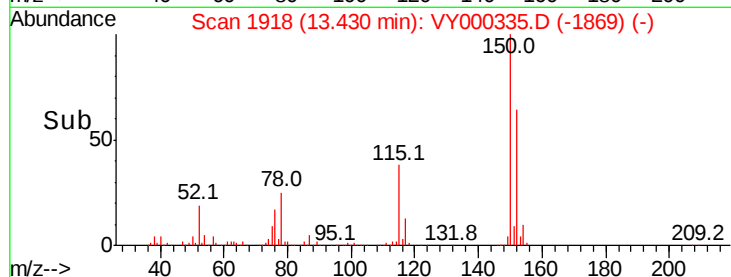
150 158.3 0.0 348.4



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: 44.795 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY000335.D

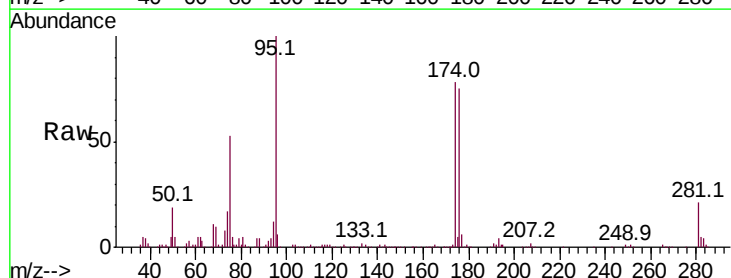
Acq: 17 Oct 2019 10:43

Tgt Ion: 75 Resp: 103206

Ion Ratio Lower Upper

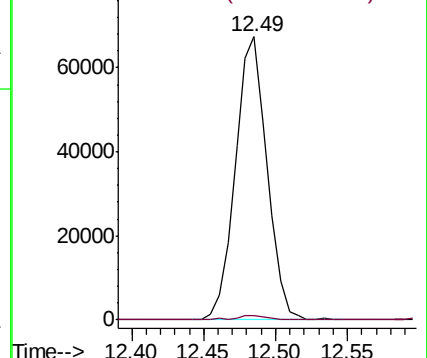
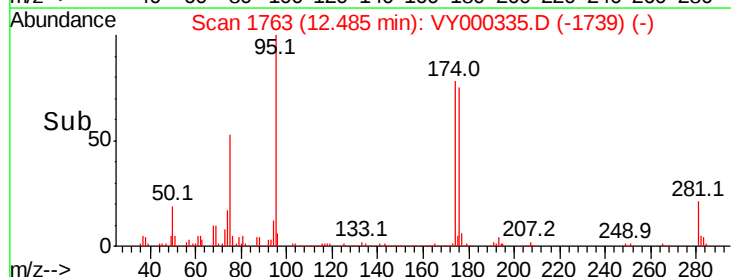
75 100

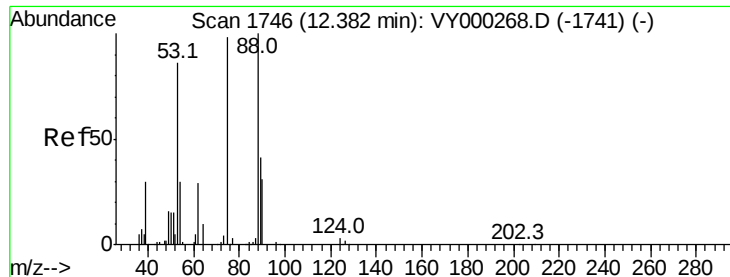
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

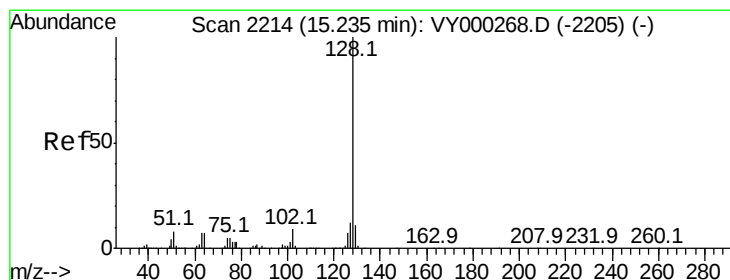
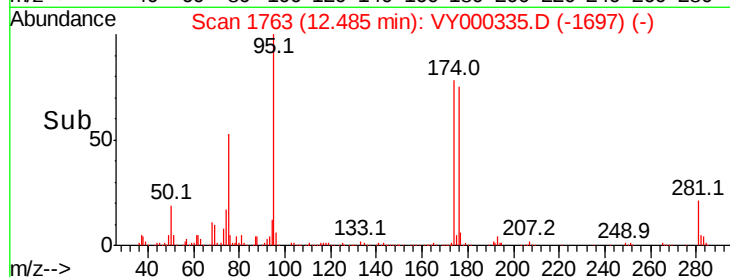
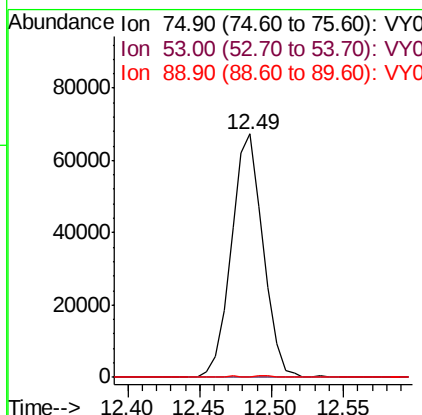
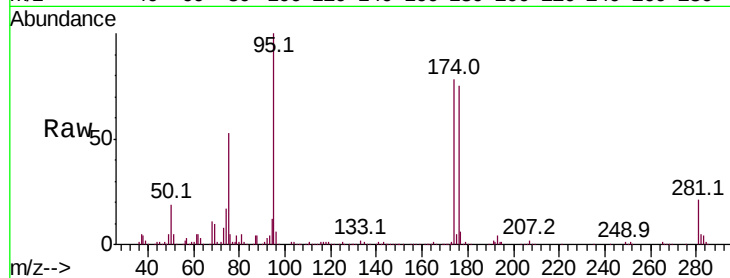




#81
trans-1,4-Dichloro-2-butene
Concen: 98.009 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. 0.10 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 75 Resp: 103206
Ion Ratio Lower Upper
75 100
53 0.0 71.3 106.9#
89 0.3 35.1 52.7#



#95
Naphthalene
Concen: 1.511 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY000335.D
Acq: 17 Oct 2019 10:43

Tgt Ion:128 Resp: 13605
Ion Ratio Lower Upper
128 100
127 10.9 9.6 14.4
129 11.3 8.7 13.1

