

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101419\
 Data File : VY000295.D
 Acq On : 14 Oct 2019 13:40
 Operator : SY/MD
 Sample : K5266-06RE
 Misc : 5.10g/5.00ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 15 01:14:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	245854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	468111	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	401862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	167763	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	163732	63.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.26%	
35) Dibromofluoromethane	7.73	113	89223	31.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.20%	
50) Toluene-d8	10.19	98	541006	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.48	95	178893	43.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.70%	

Target Compounds

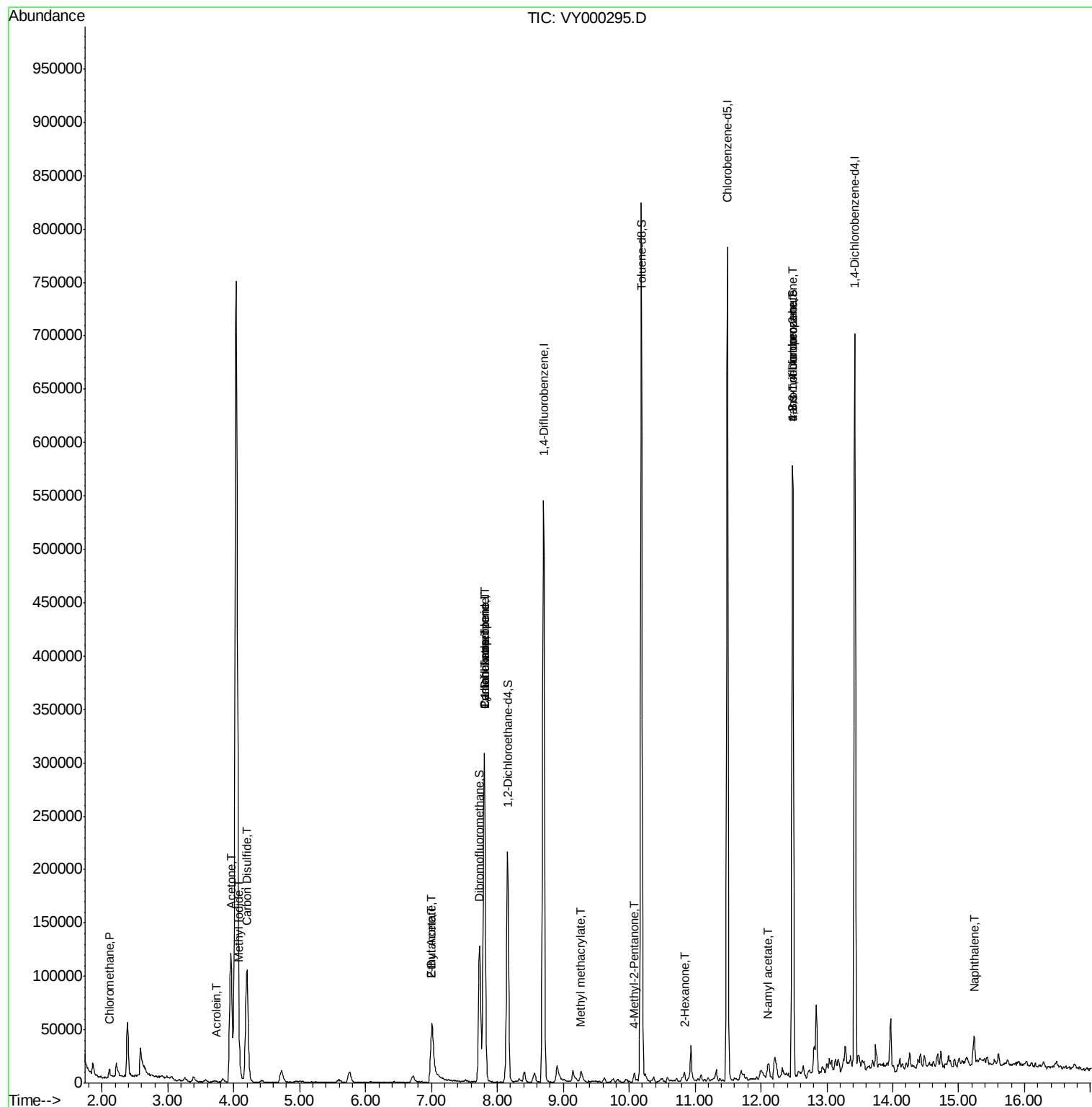
					Qvalue	
2) Dichlorodifluoromethane	1.90	85	214	Below Cal	#	41
3) Chloromethane	2.11	50	7134	2.375	ug/l	98
10) Methyl Iodide	4.08	142	207	1.242	ug/l #	76
13) Acrolein	3.74	56	684	2.150	ug/l #	15
16) Acetone	3.96	43	202215	240.777	ug/l	94
17) Carbon Disulfide	4.20	76	213165	27.266	ug/l	98
20) Methylene Chloride	4.73	84	7893	Below Cal		98
25) 2-Butanone	7.00	43	58574	49.510	ug/l	94
31) Cyclohexane	7.80	56	5721	1.153	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	19625	4.282	ug/l #	45
37) Ethyl Acetate	7.00	43	58574	21.584	ug/l #	72
38) Carbon Tetrachloride	7.80	117	24614	5.547	ug/l #	18
48) Methyl methacrylate	9.27	41	2846	1.259	ug/l #	42
51) 4-Methyl-2-Pentanone	10.08	43	5329	2.002	ug/l	95
59) 2-Hexanone	10.84	43	7878	4.217	ug/l	83
74) N-amyl acetate	12.10	43	9739	3.033	ug/l #	52
76) 1,2,3-Trichloropropane	12.48	75	95029	46.065	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	95029	100.789	ug/l #	14
95) Naphthalene	15.23	128	19085	2.367	ug/l	99

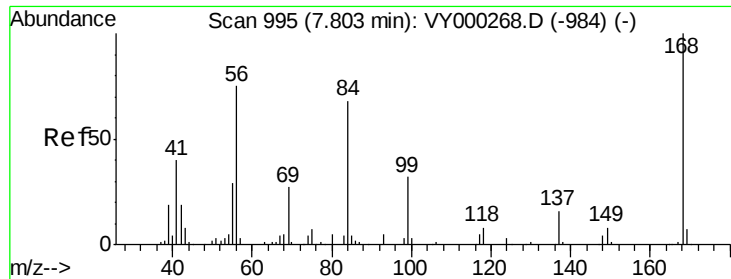
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

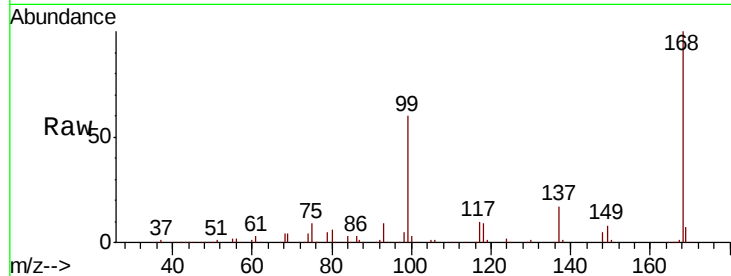
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 245854

Ion Ratio Lower Upper

168 100

99 59.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000268.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000268.D (-984) (-)

7.80

120000

100000

80000

60000

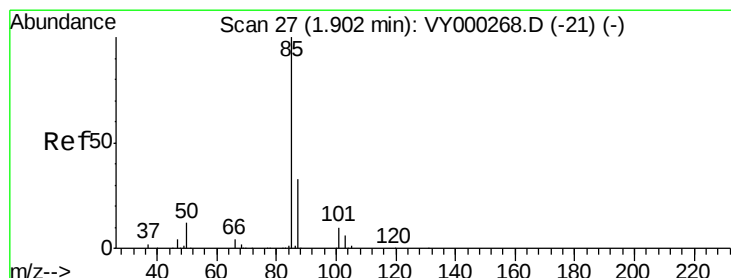
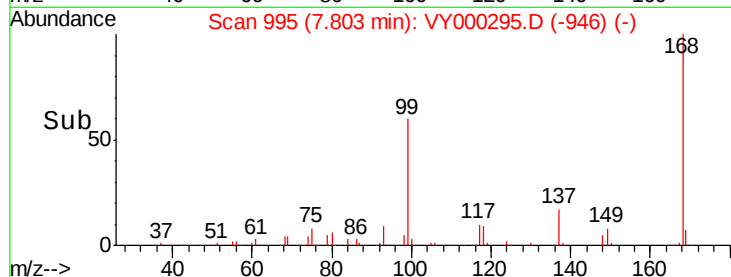
40000

20000

0

Time-->

7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000295.D

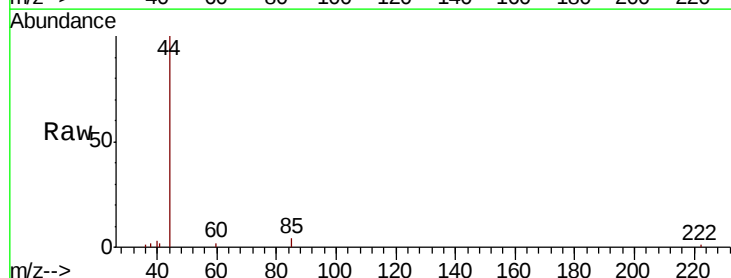
Acq: 14 Oct 2019 13:40

Tgt Ion: 85 Resp: 214

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000268.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY000268.D (-21) (-)

1.90

300

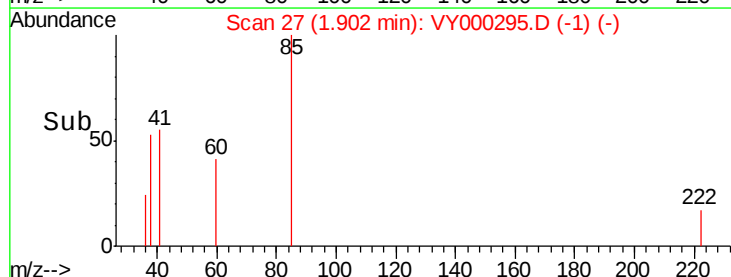
200

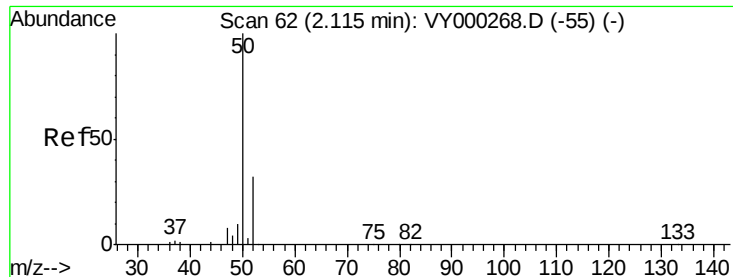
100

0

Time-->

1.88 1.90 1.92





#3

Chloromethane

Concen: 2.375 ug/l

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

Instrument :

MSVOA_Y

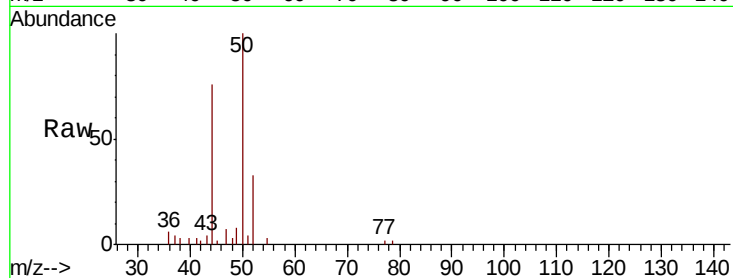
ClientSampled :

Tot Ion: 50 Resp: 7134

Ion Ratio Lower Upper

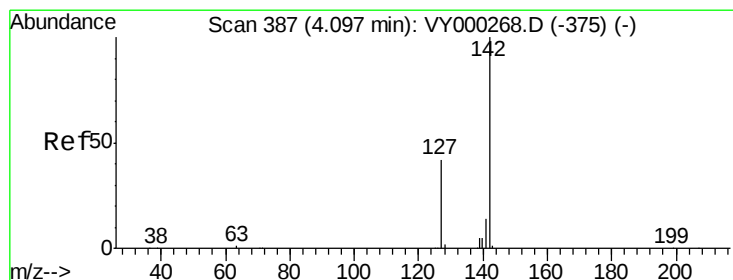
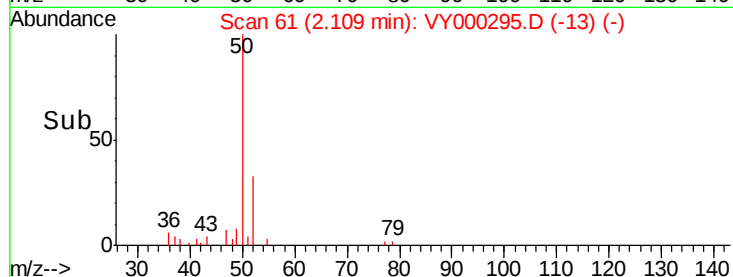
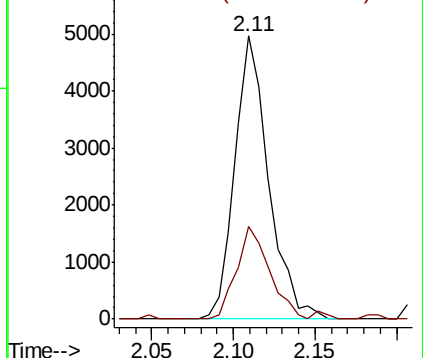
50 100

52 32.6 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: 1.242 ug/l

RT: 4.08 min Scan# 385

Delta R.T. -0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

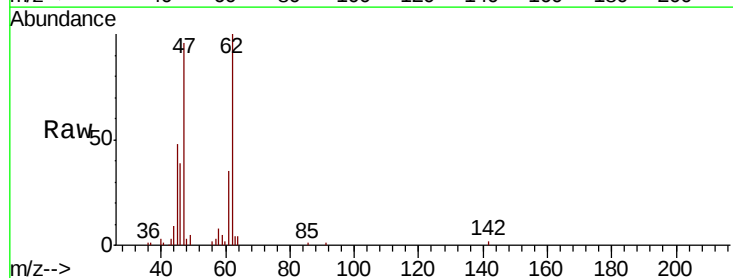
Tgt Ion: 142 Resp: 207

Ion Ratio Lower Upper

142 100

127 29.0 33.9 50.9#

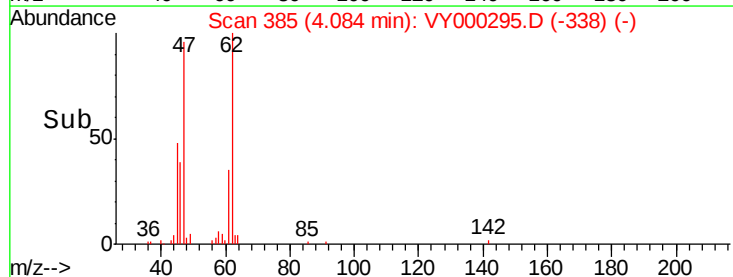
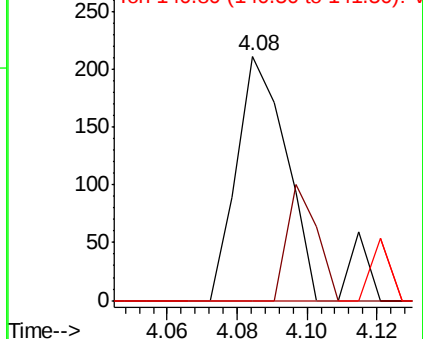
141 0.0 11.2 16.8#

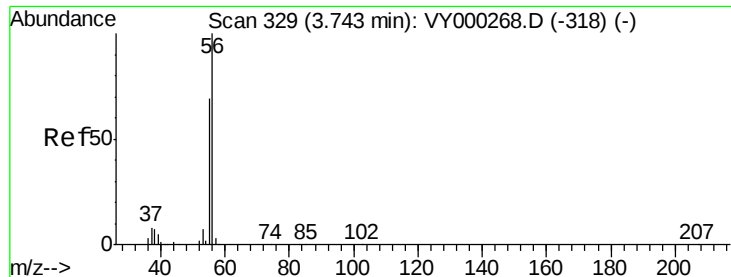


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 2.150 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

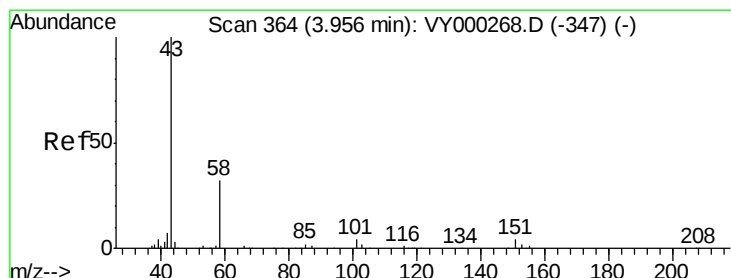
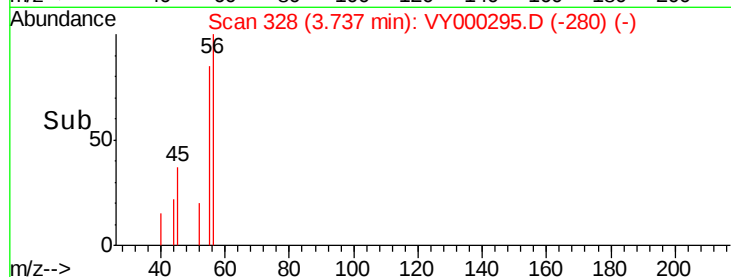
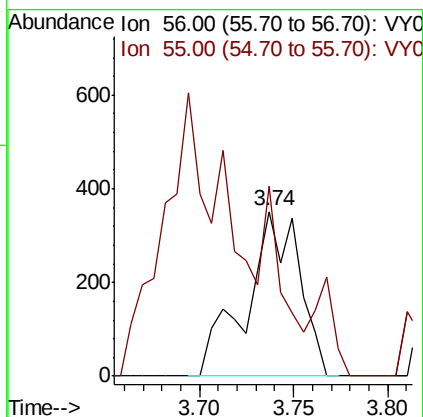
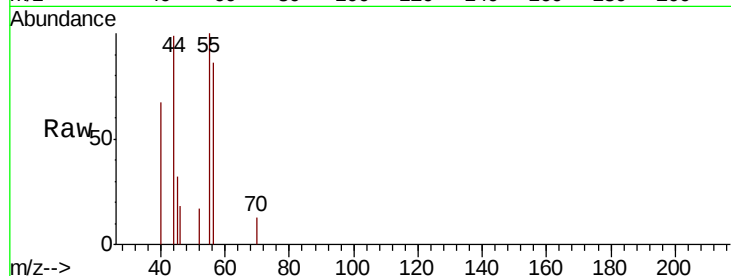
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 684

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#16

Acetone

Concen: 240.777 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VY000295.D

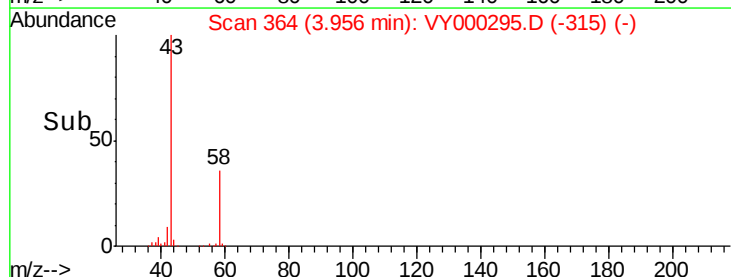
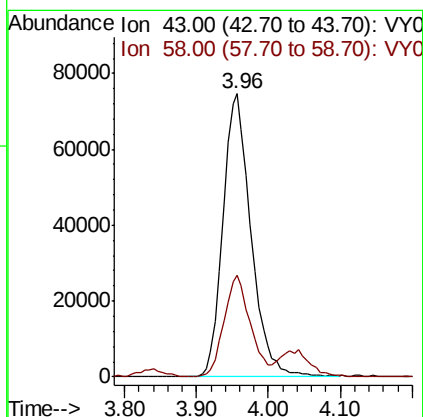
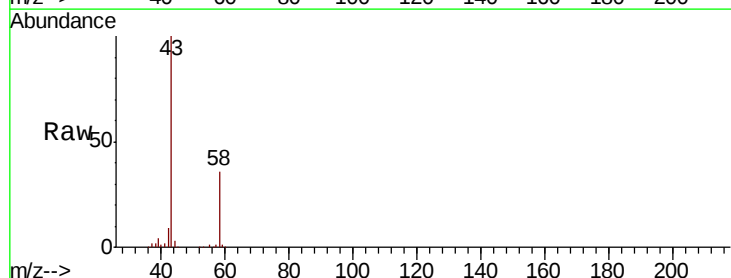
Acq: 14 Oct 2019 13:40

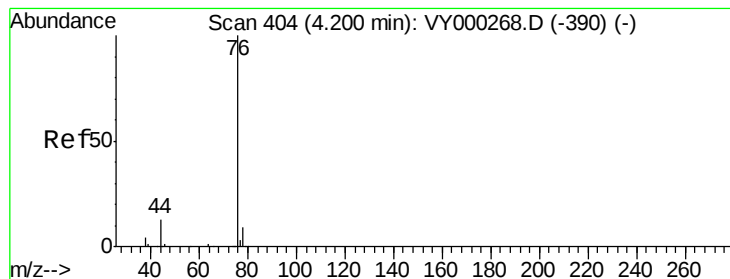
Tgt Ion: 43 Resp: 202215

Ion Ratio Lower Upper

43 100

58 35.6 25.8 38.6





#17

Carbon Disulfide

Concen: 27.266 ug/l

RT: 4.20 min Scan# 404

Delta R.T. 0.00 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

Instrument :

MSVOA_Y

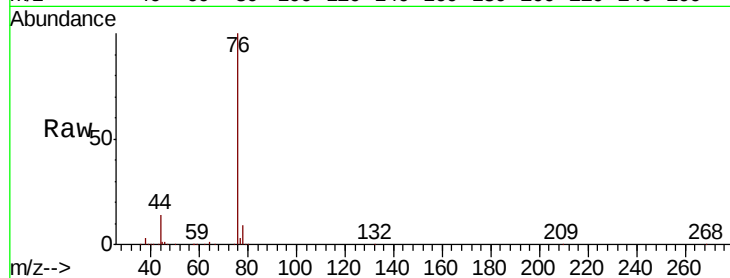
ClientSampleId :

Tot Ion: 76 Resp: 213165

Ion Ratio Lower Upper

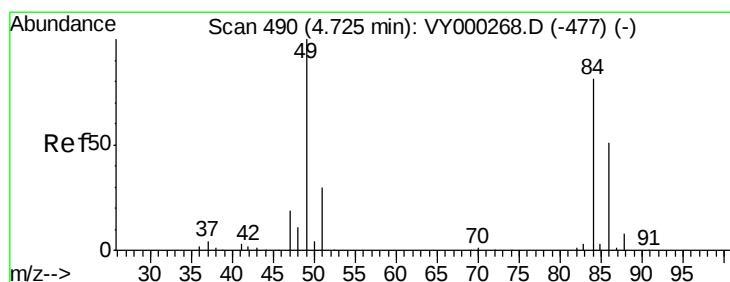
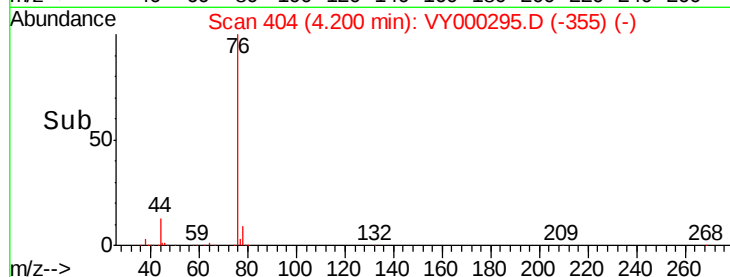
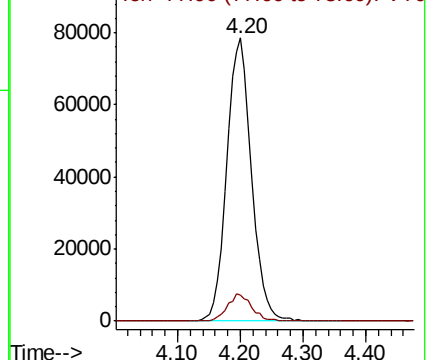
76 100

78 9.4 7.0 10.4



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#20

Methylene Chloride

Concen: Below Cal

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

Tgt Ion: 84 Resp: 7893

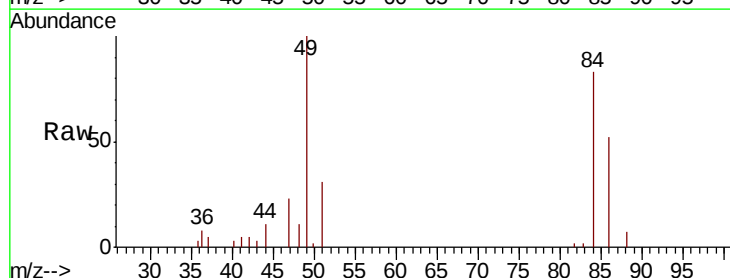
Ion Ratio Lower Upper

84 100

49 121.0 99.0 148.4

51 37.3 29.3 43.9

86 63.2 50.2 75.4

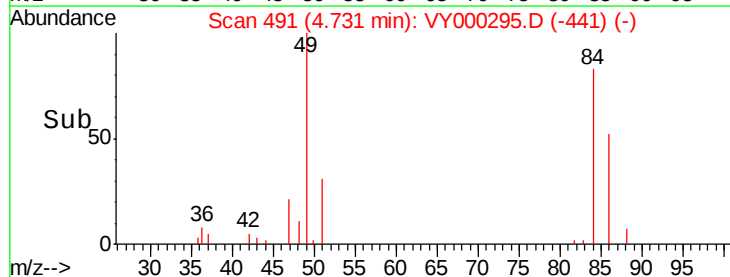
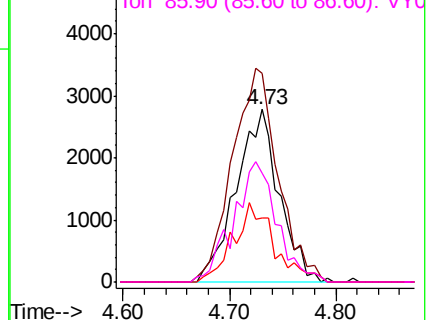


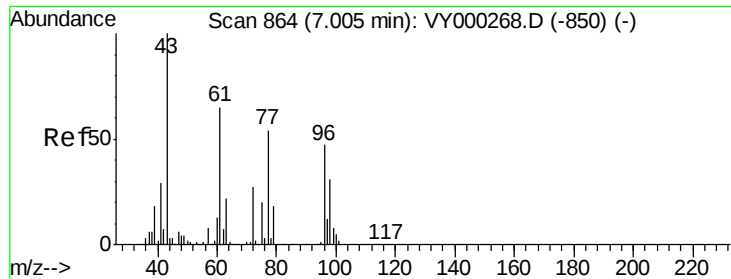
Abundance Ion 83.90 (83.60 to 84.60): VY0

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

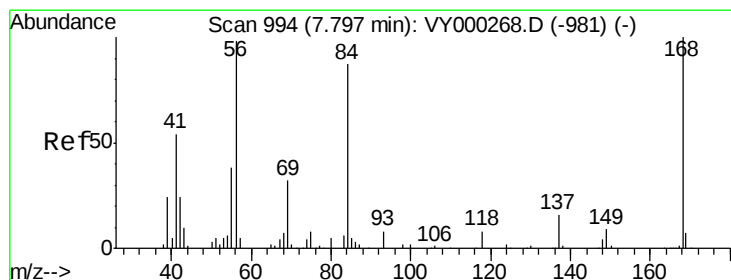
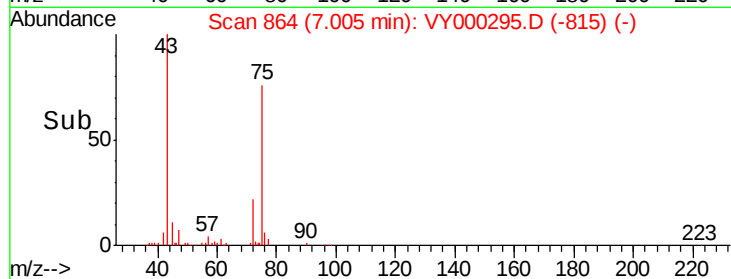
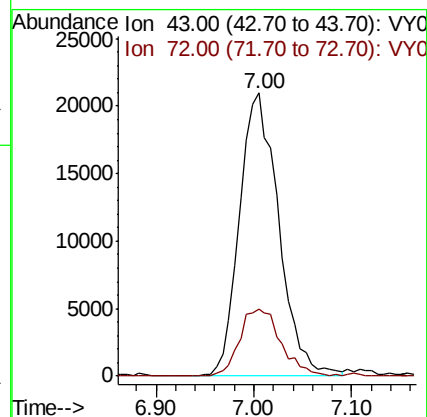
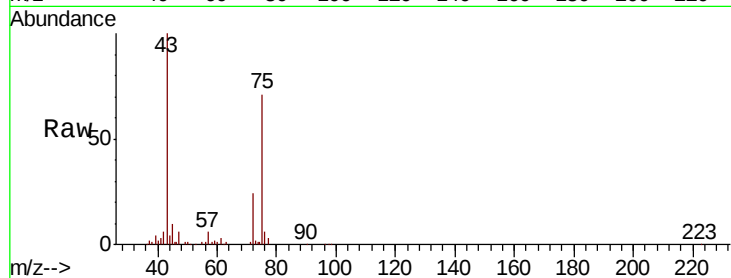




#25
2-Butanone
Concen: 49.510 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.00 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

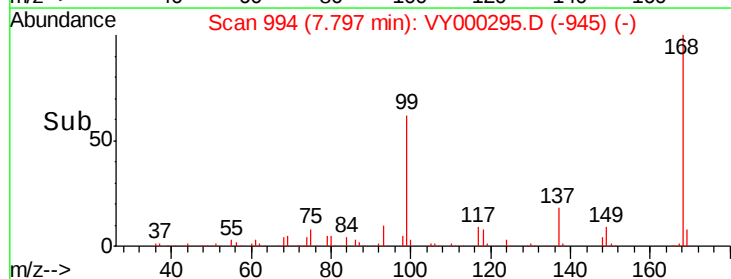
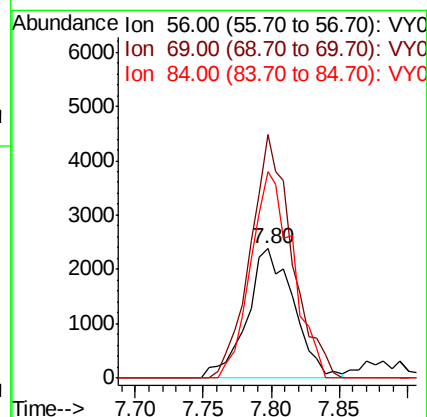
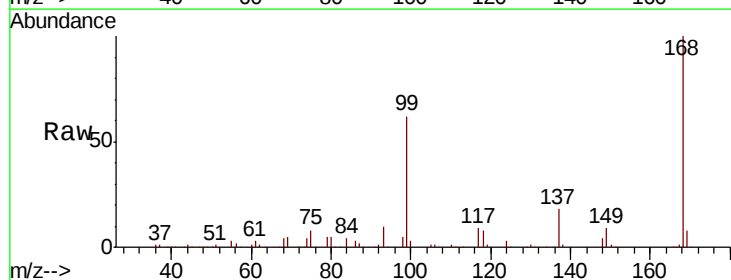
Instrument :
MSVOA_Y
ClientSampleId :

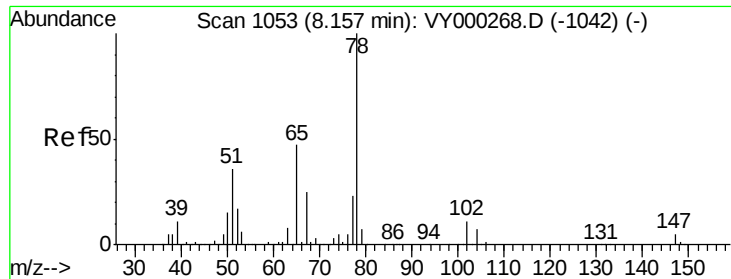
Tot Ion: 43 Resp: 58574
Ion Ratio Lower Upper
43 100
72 23.7 21.4 32.2



#31
Cyclohexane
Concen: 1.153 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.00 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Tgt Ion: 56 Resp: 5721
Ion Ratio Lower Upper
56 100
69 187.8 26.3 39.5#
84 159.6 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 63.135 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

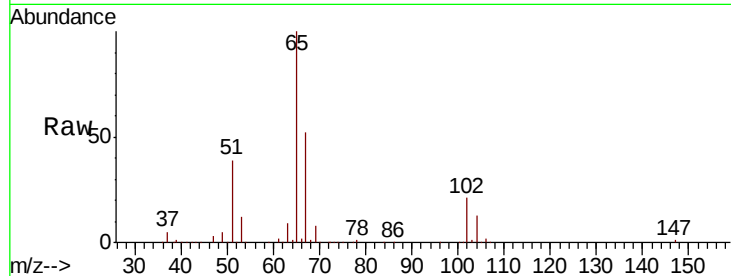
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 65 Resp: 163732

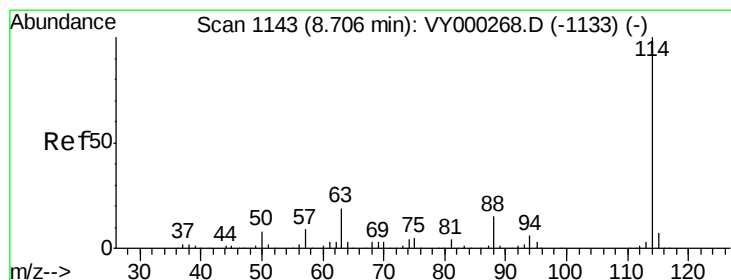
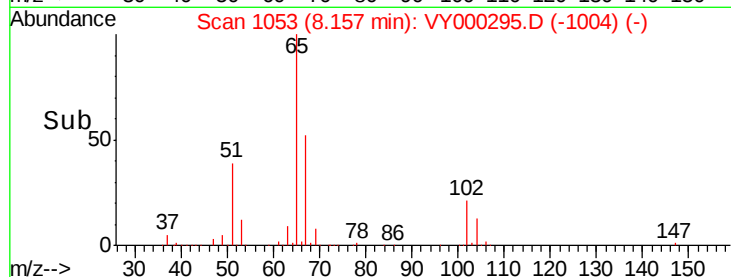
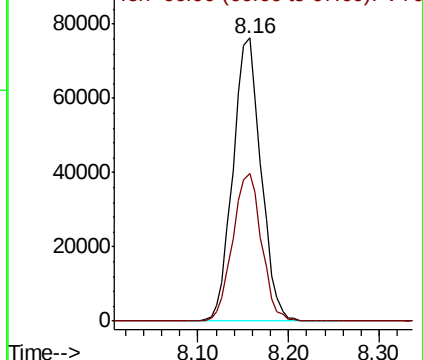
Ion Ratio Lower Upper

65 100

67 53.4 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: VY000295.D

Acq: 14 Oct 2019 13:40

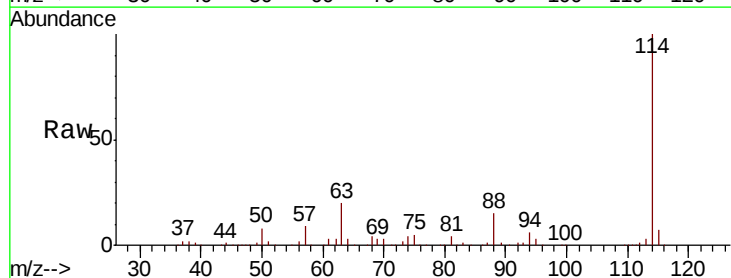
Tgt Ion: 114 Resp: 468111

Ion Ratio Lower Upper

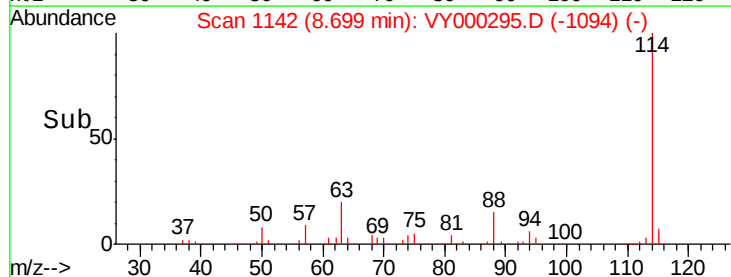
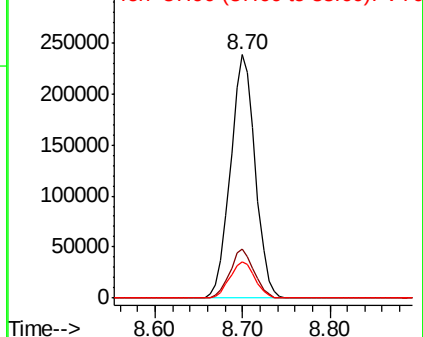
114 100

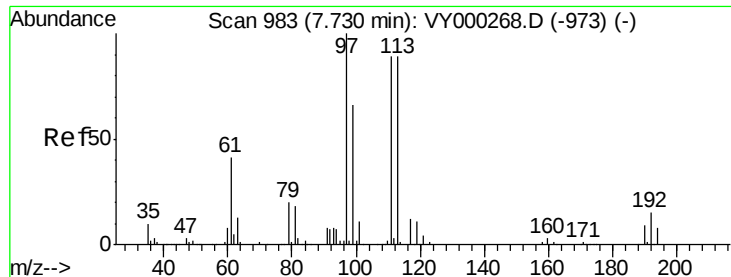
63 20.1 0.0 37.2

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

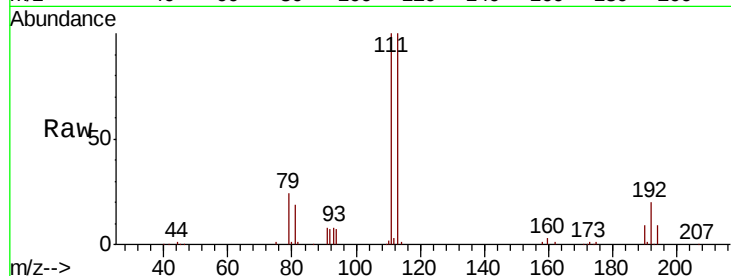




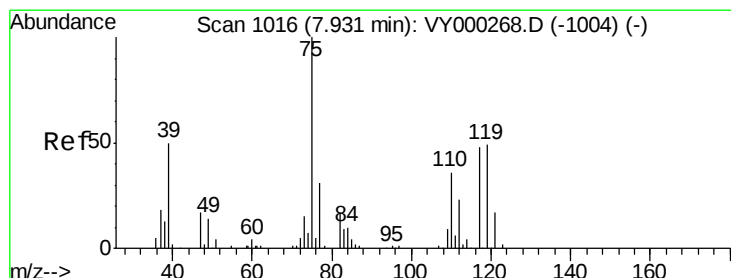
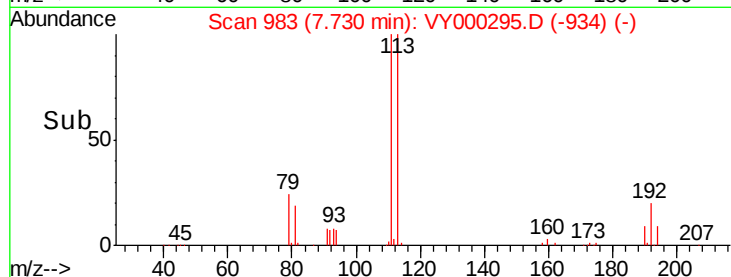
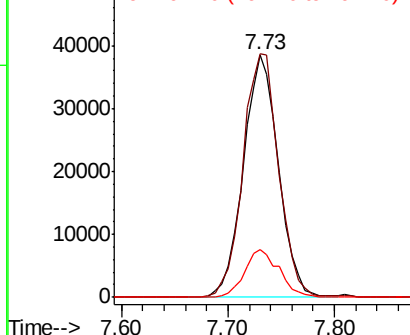
#35
 Dibromofluoromethane
 Concen: 31.598 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY000295.D
 Acq: 14 Oct 2019 13:40

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion:113 Resp: 89223
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.6 122.4
 192 19.4 15.3 22.9

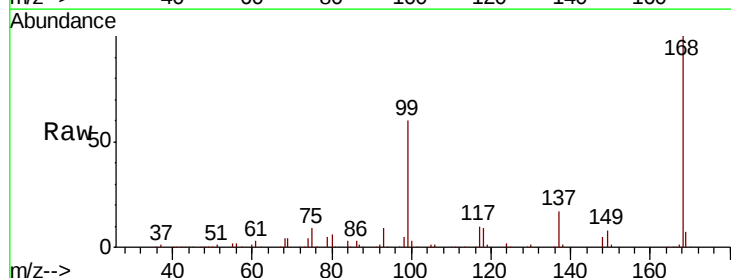


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

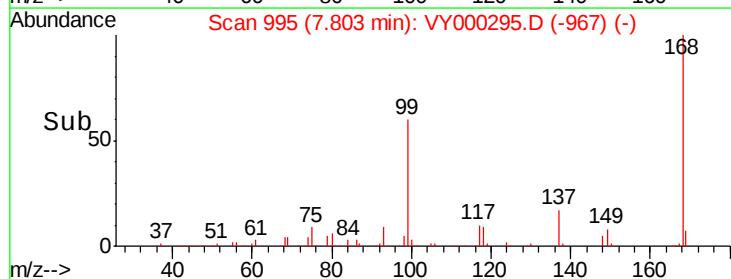
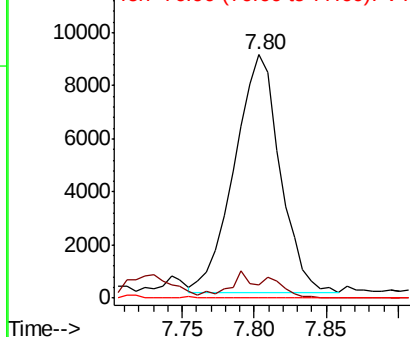


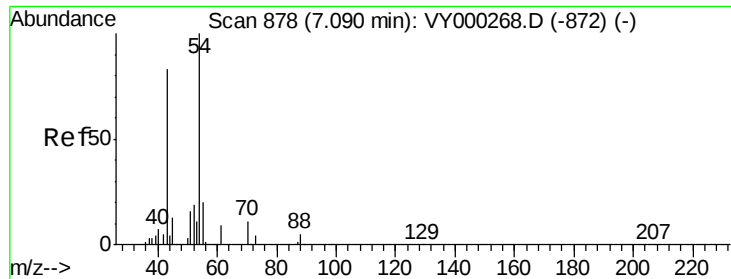
#36
 1,1-Dichloropropene
 Concen: 4.282 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000295.D
 Acq: 14 Oct 2019 13:40

Tgt Ion: 75 Resp: 19625
 Ion Ratio Lower Upper
 75 100
 110 4.6 18.4 55.4#
 77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0

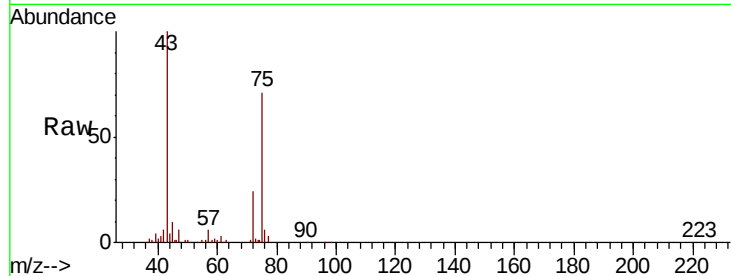




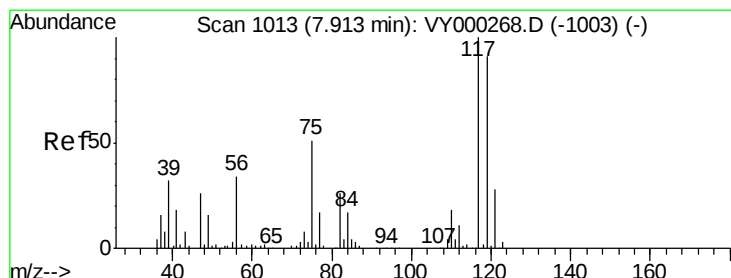
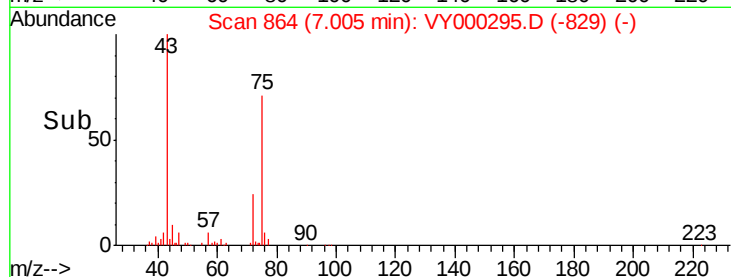
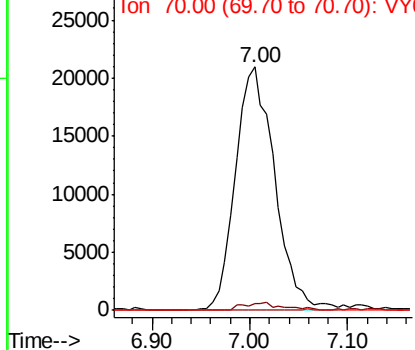
#37
Ethyl Acetate
Concen: 21.584 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.09 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 58574
Ion Ratio Lower Upper
43 100
61 3.3 12.1 18.1#
70 0.0 8.7 13.1#

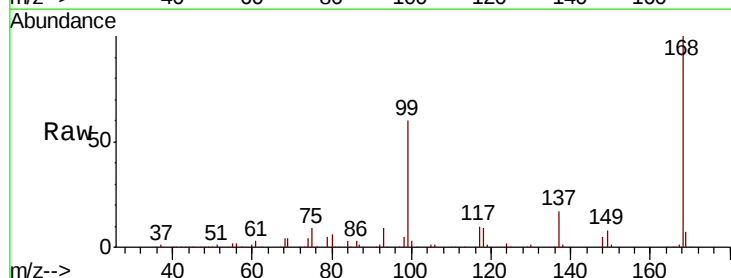


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

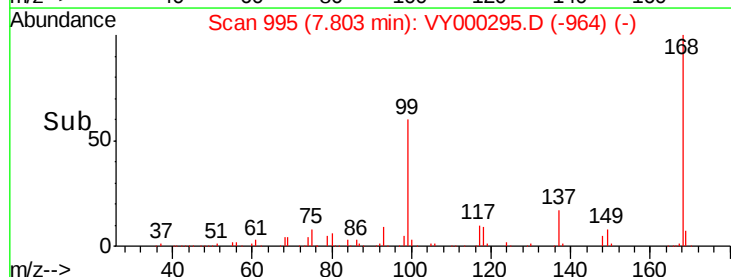
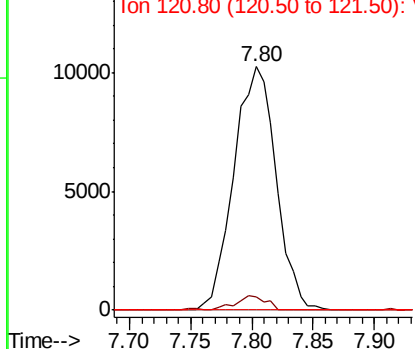


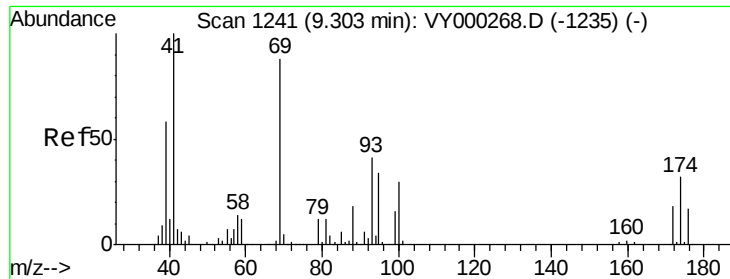
#38
Carbon Tetrachloride
Concen: 5.547 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Tgt Ion: 117 Resp: 24614
Ion Ratio Lower Upper
117 100
119 5.2 72.8 109.2#
121 0.0 22.2 33.2#



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

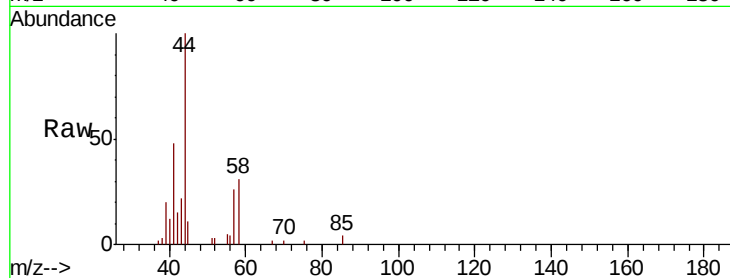




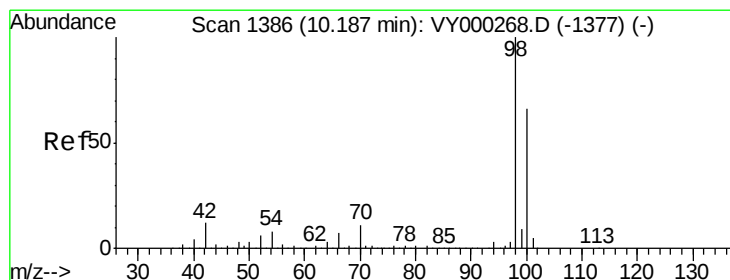
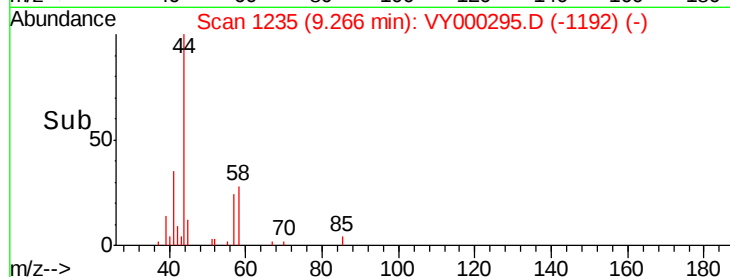
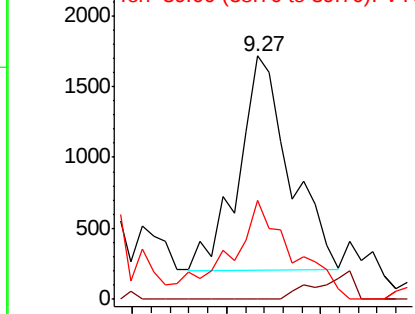
#48
Methvl methacrylate
Concen: 1.259 ug/l
RT: 9.27 min Scan# 1235
Delta R.T. -0.04 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 41 Resp: 2846
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 56.3 47.7 71.5

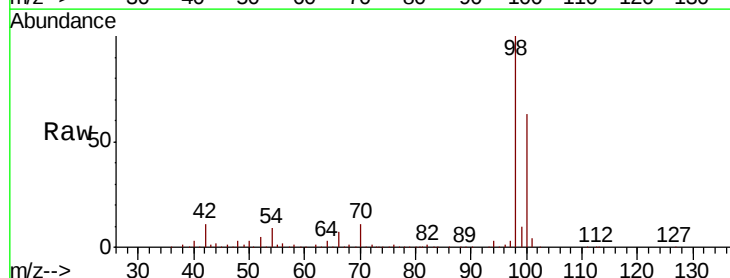


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

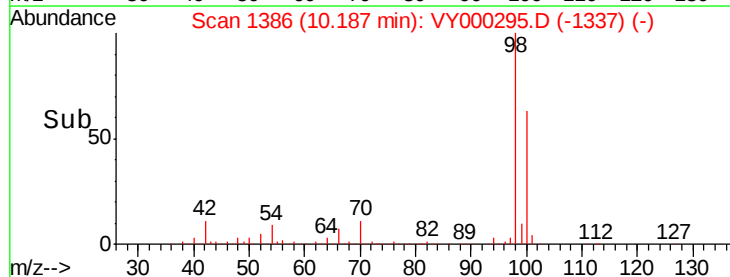
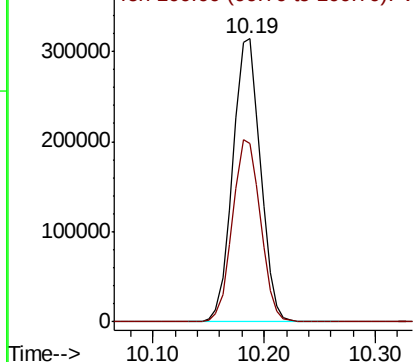


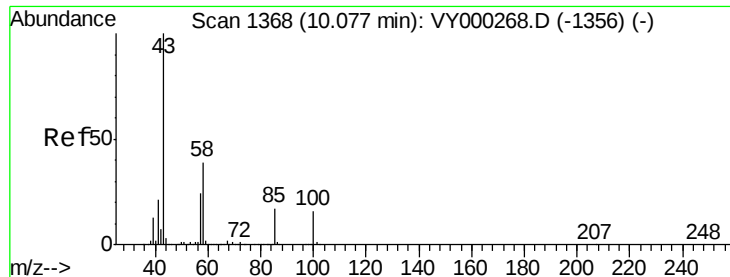
#50
Toluene-d8
Concen: 49.807 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. 0.00 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Tgt Ion: 98 Resp: 541006
Ion Ratio Lower Upper
98 100
100 65.2 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: 2.002 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

Instrument :

MSVOA_Y

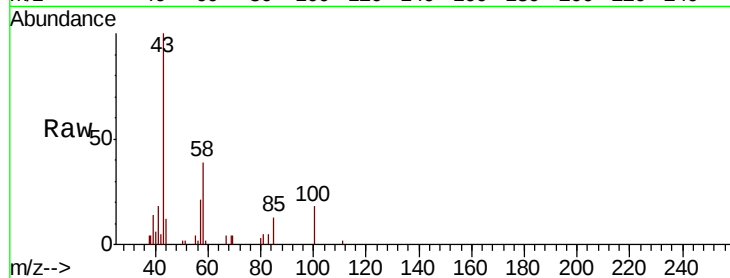
ClientSampled :

Tot Ion: 43 Resp: 5329

Ion Ratio Lower Upper

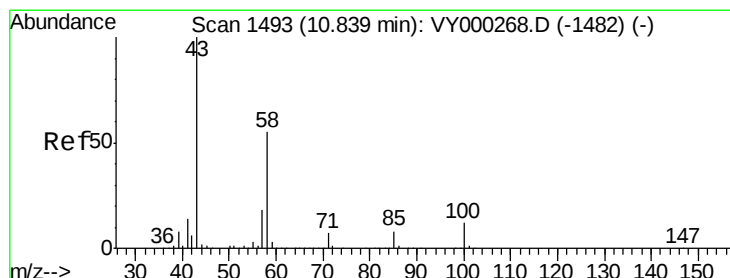
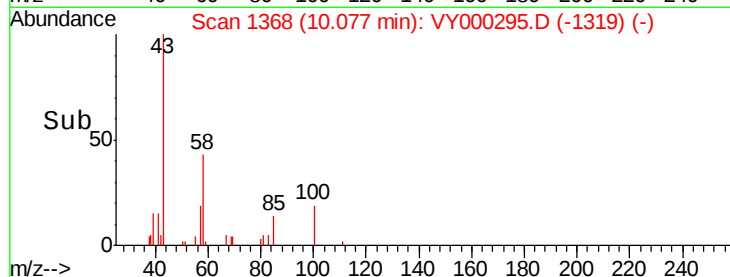
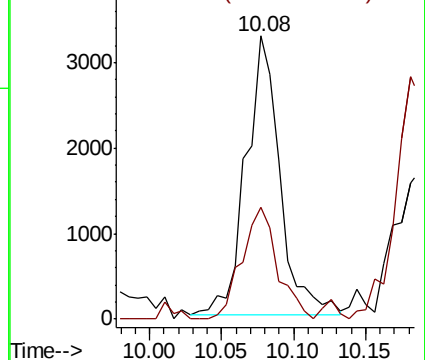
43 100

58 42.1 31.0 46.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#59

2-Hexanone

Concen: 4.217 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VY000295.D

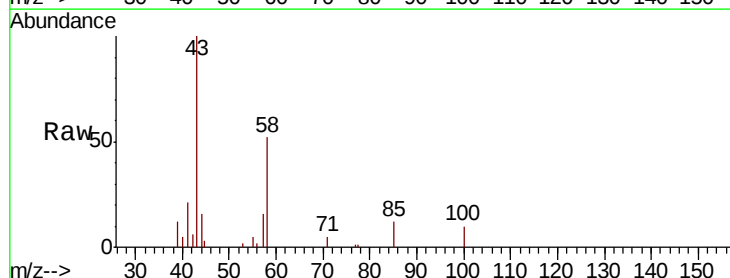
Acq: 14 Oct 2019 13:40

Tgt Ion: 43 Resp: 7878

Ion Ratio Lower Upper

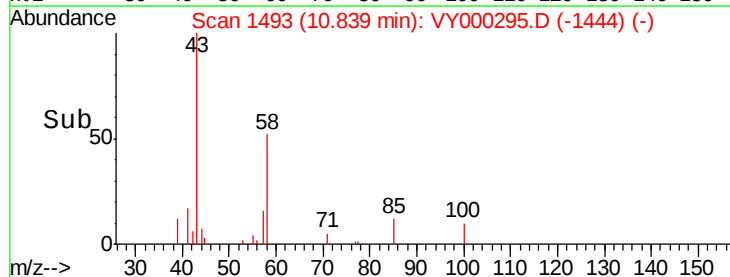
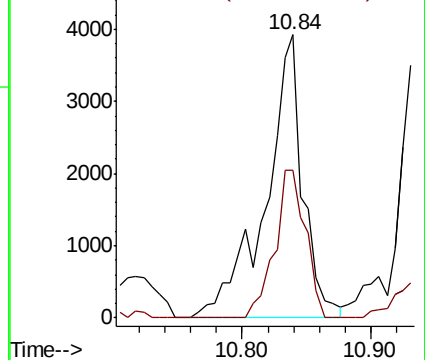
43 100

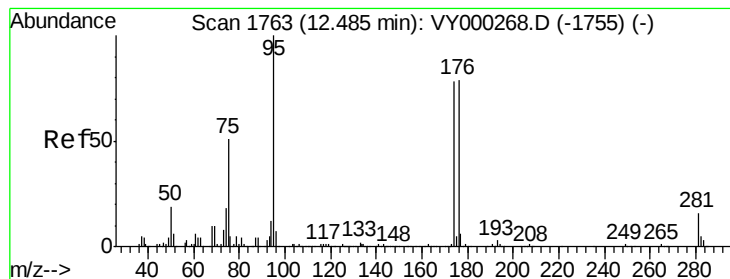
58 43.1 27.7 83.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#62

4-Bromofluorobenzene

Concen: 43.351 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

Instrument :

MSVOA_Y

ClientSampled :

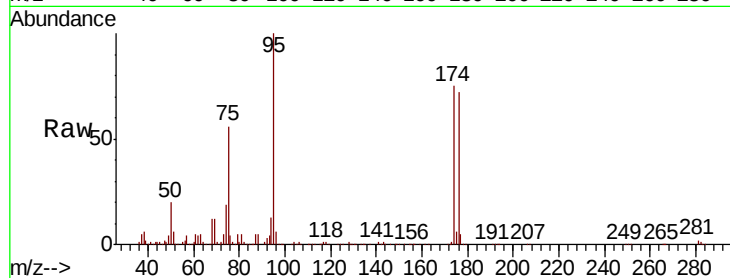
Tot Ion: 95 Resp: 178893

Ion Ratio Lower Upper

95 100

174 77.3 0.0 159.6

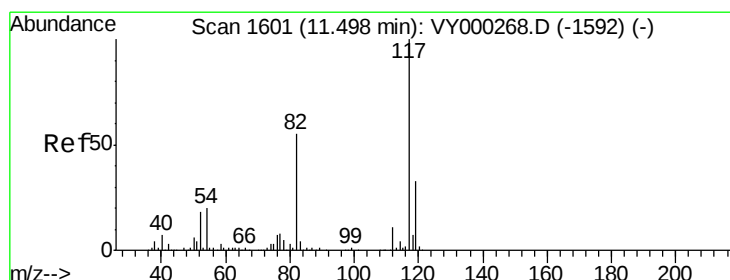
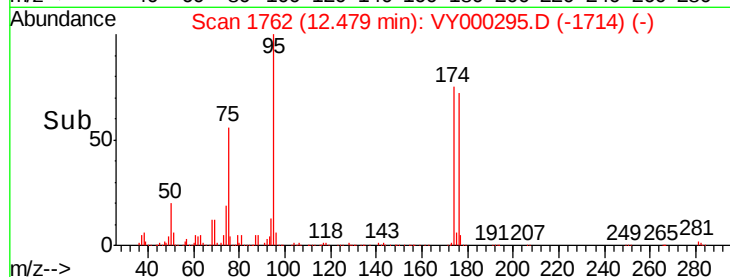
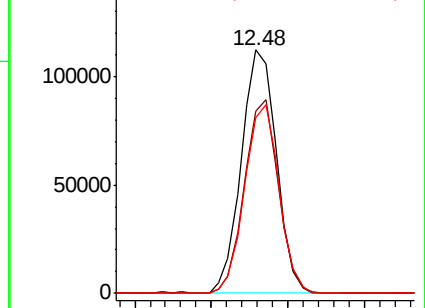
176 75.9 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VY000268.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY000268.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY000268.D (-1755) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY000295.D

Acq: 14 Oct 2019 13:40

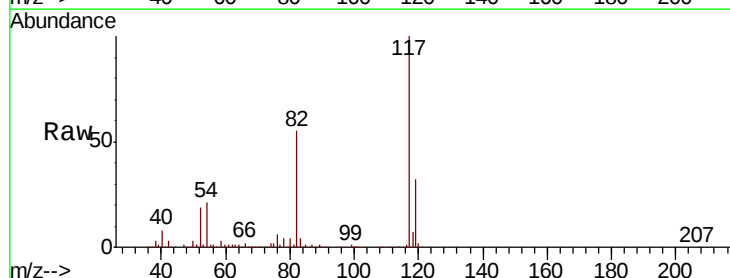
Tgt Ion: 117 Resp: 401862

Ion Ratio Lower Upper

117 100

82 54.8 43.7 65.5

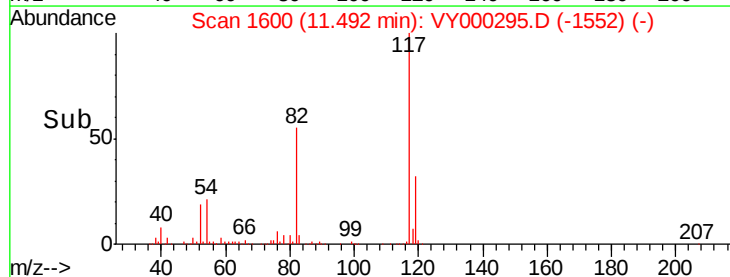
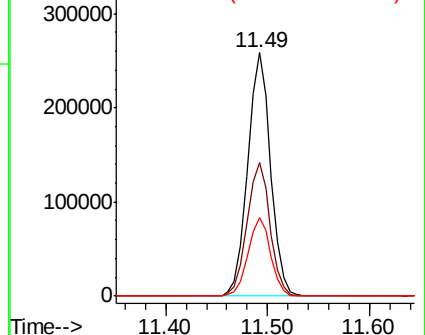
119 32.3 26.6 39.8

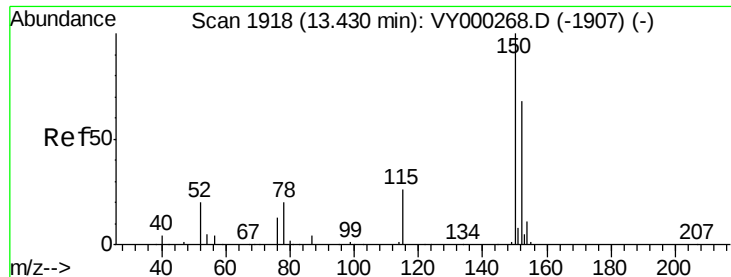


Abundance Ion 116.90 (116.60 to 117.60): VY000268.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY000268.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY000268.D (-1592) (-)



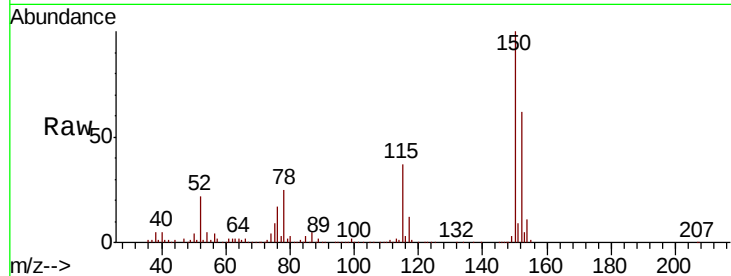


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.3	29.3	88.0
150	158.8	0.0	348.4

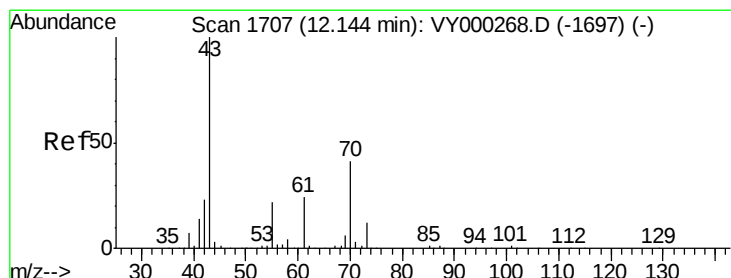
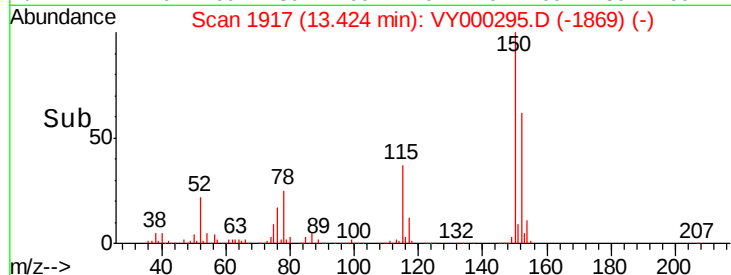
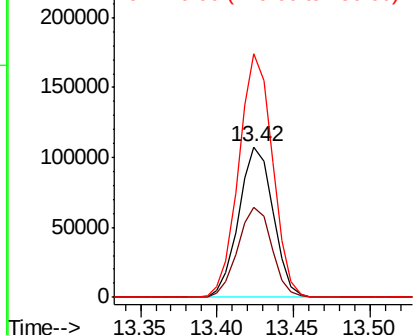


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

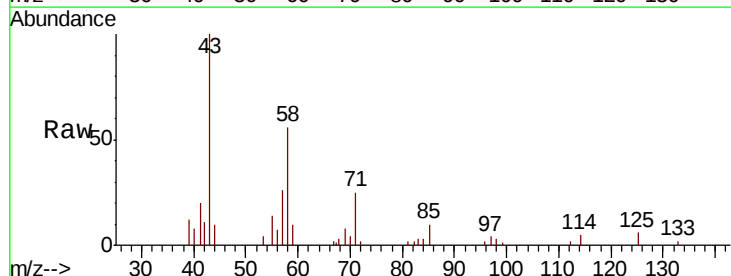
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 3.033 ug/l
RT: 12.10 min Scan# 1700
Delta R.T. -0.04 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Tgt Ion	Ratio	Lower	Upper
43	100		
70	5.2	32.9	49.3#
55	8.9	17.8	26.6#
61	0.0	19.5	29.3#



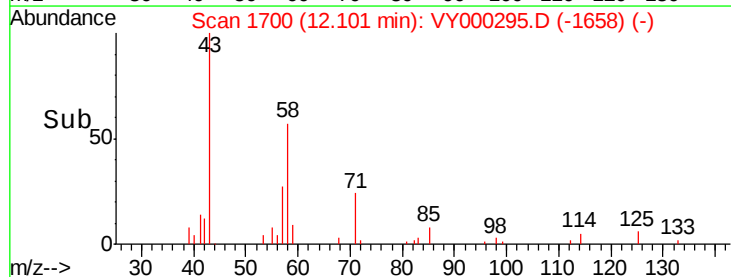
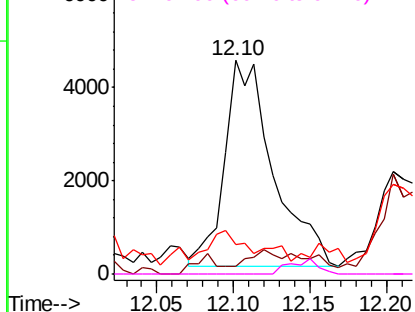
Abundance

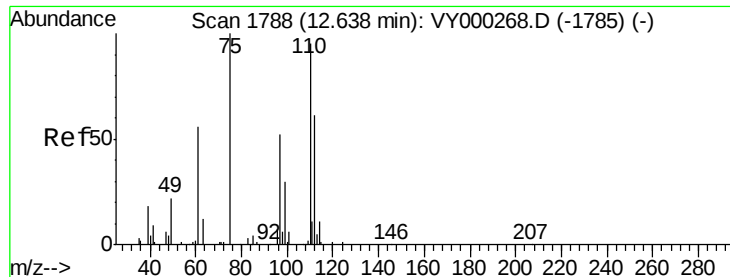
Ion 43.00 (42.70 to 43.70): VY0

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

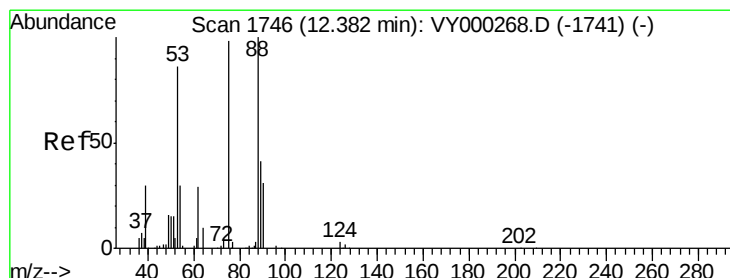
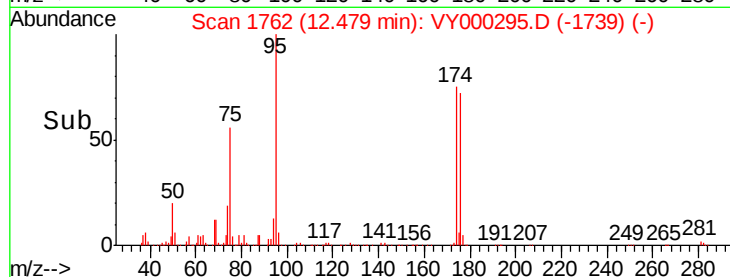
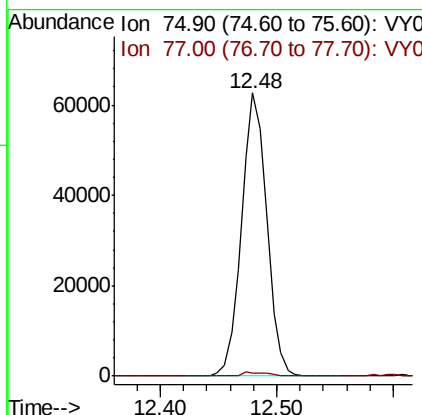
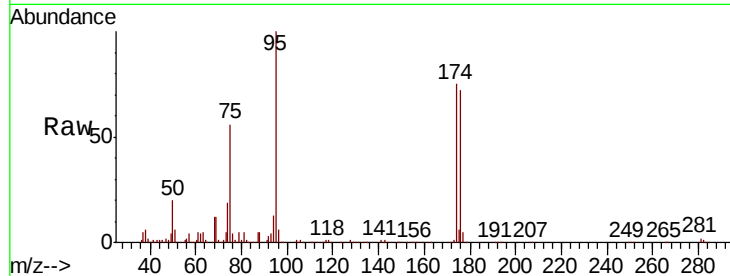




#76
 1,2,3-Trichloropropane
 Concen: 46.065 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.16 min
 Lab File: VY000295.D
 Acq: 14 Oct 2019 13:40

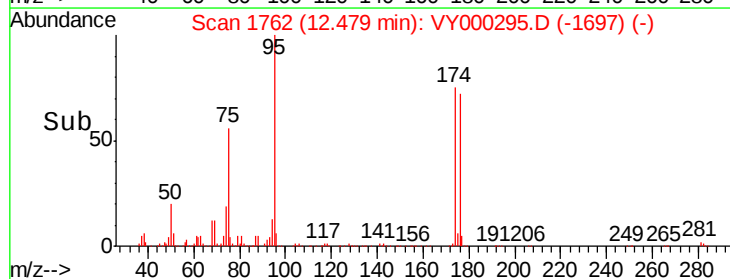
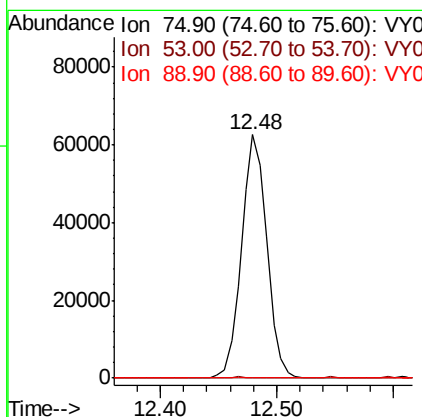
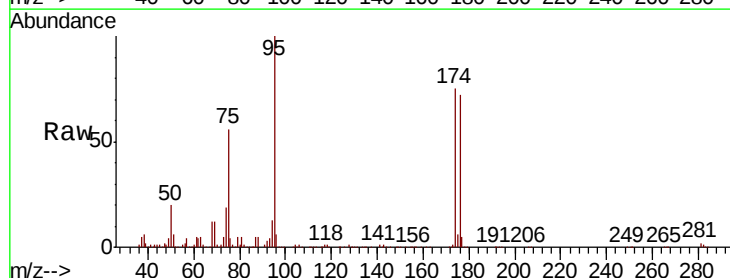
Instrument :
 MSVOA_Y
 ClientSampleId :

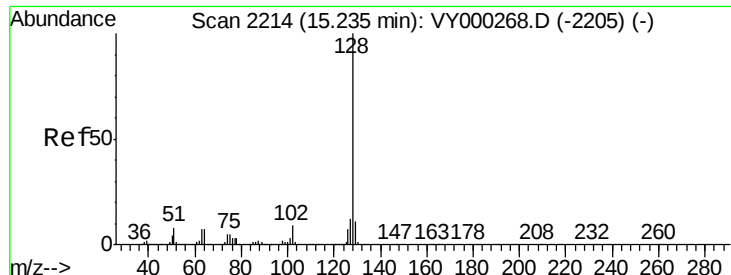
Tot Ion: 75 Resp: 95029
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.789 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY000295.D
 Acq: 14 Oct 2019 13:40

Tgt Ion: 75 Resp: 95029
 Ion Ratio Lower Upper
 75 100
 53 0.5 71.3 106.9#
 89 0.2 35.1 52.7#

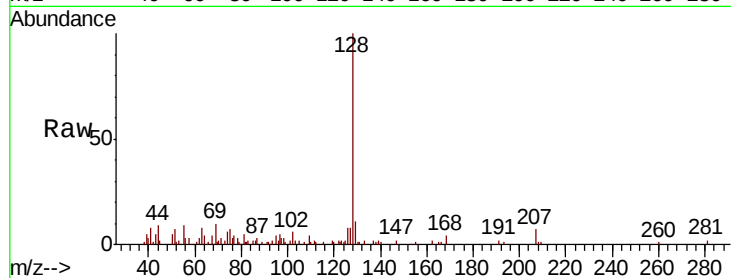




#95
Naphthalene
Concen: 2.367 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY000295.D
Acq: 14 Oct 2019 13:40

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.6	14.4
129	10.0	8.7	13.1



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

