

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101419\
 Data File : VY000307.D
 Acq On : 14 Oct 2019 18:18
 Operator : SY/MD
 Sample : K5358-01
 Misc : 5.01g/5.00ML/MSVOA Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

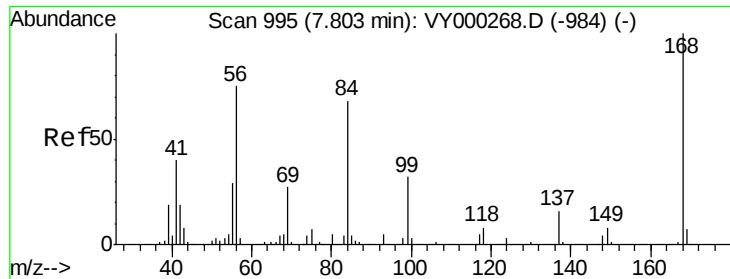
Quant Time: Oct 15 01:17:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 08:10:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	233413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	447766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	394552	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	185132	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	156894	63.72	ug/l	0.00
Spiked Amount			Recovery	=	127.44%	
35) Dibromofluoromethane	7.73	113	134505	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
50) Toluene-d8	10.18	98	528489	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.48	95	191073	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	217	Below Cal	#	41
11) Tert butyl alcohol	4.96	59	114192	443.180	ug/l	100
13) Acrolein	3.74	56	810	2.681	ug/l #	15
16) Acetone	3.96	43	31489	39.492	ug/l	93
17) Carbon Disulfide	4.20	76	26845	3.617	ug/l	99
20) Methylene Chloride	4.72	84	5135	Below Cal	#	70
25) 2-Butanone	7.01	43	12340	10.986	ug/l	99
31) Cyclohexane	7.80	56	9205	1.954	ug/l #	45
36) 1,1-Dichloropropene	7.80	75	18239	4.160	ug/l #	50
37) Ethyl Acetate	7.01	43	12340	4.754	ug/l #	71
38) Carbon Tetrachloride	7.80	117	23234	5.474	ug/l #	17
39) Methylcyclohexane	9.15	83	18327	3.194	ug/l #	21
43) Isopropyl Acetate	8.26	43	22356	4.529	ug/l #	53
47) Bromodichloromethane	9.47	83	6066	1.481	ug/l #	44
49) 1,4-Dioxane	9.49	88	29	1.113	ug/l #	24
51) 4-Methyl-2-Pentanone	10.11	43	8015	3.148	ug/l #	72
55) 1,1,2-Trichloroethane	10.62	97	25669	10.158	ug/l #	20
56) Ethyl methacrylate	10.52	69	6851	1.902	ug/l #	1
59) 2-Hexanone	10.80	43	74426	41.652	ug/l #	29
74) N-amyl acetate	12.12	43	72912	20.574	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.56	83	14326	5.286	ug/l #	86
76) 1,2,3-Trichloropropane	12.48	75	97226	42.709	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	97226	93.445	ug/l #	16

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

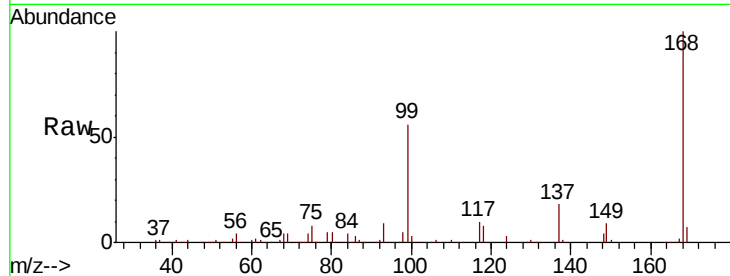
ClientSampled :

Tot Ion:168 Resp: 233413

Ion Ratio Lower Upper

168 100

99 56.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000307.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000307.D (-946) (-)

7.80

100000

80000

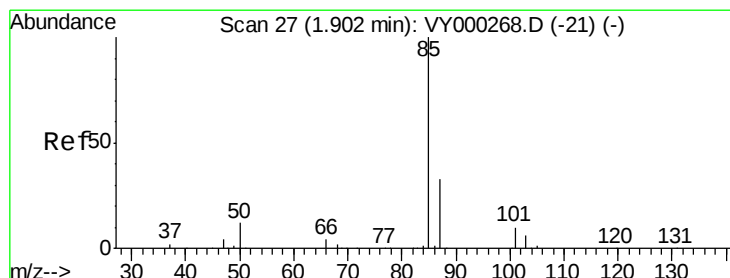
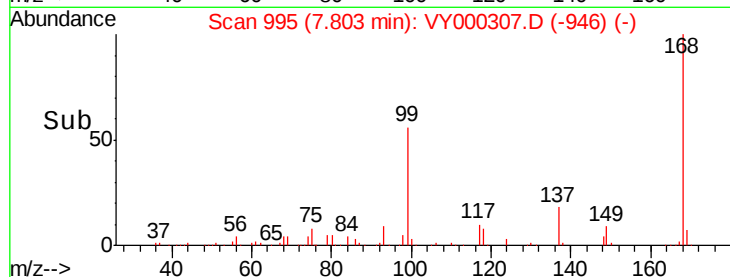
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000307.D

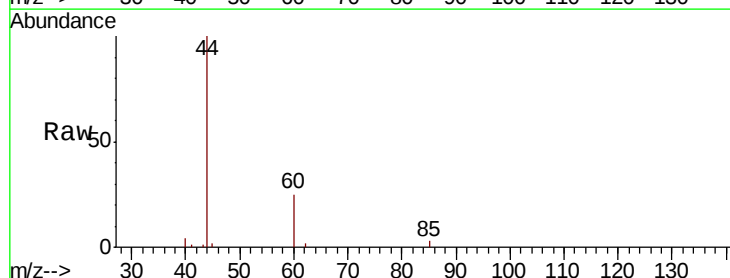
Acq: 14 Oct 2019 18:18

Tgt Ion: 85 Resp: 217

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000307.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000307.D (-1) (-)

1.90

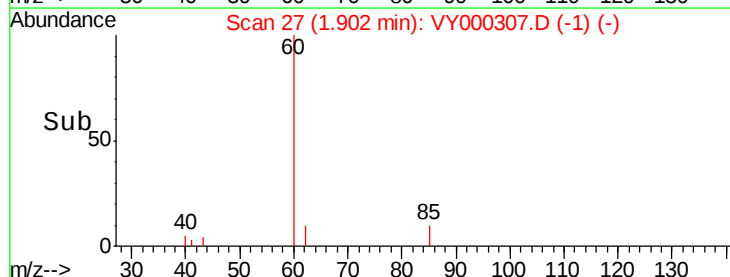
150

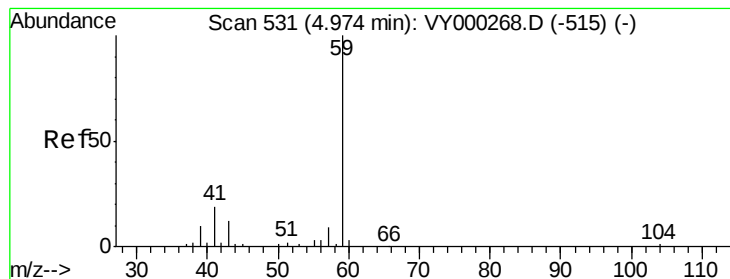
100

50

0

Time-->



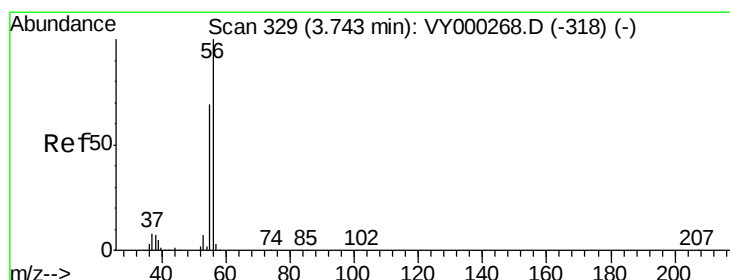
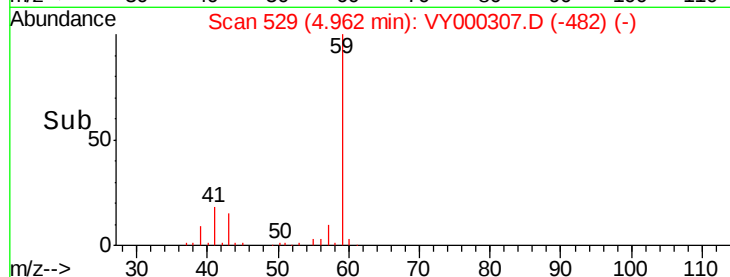
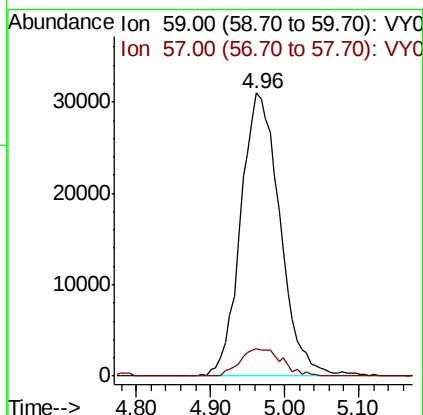
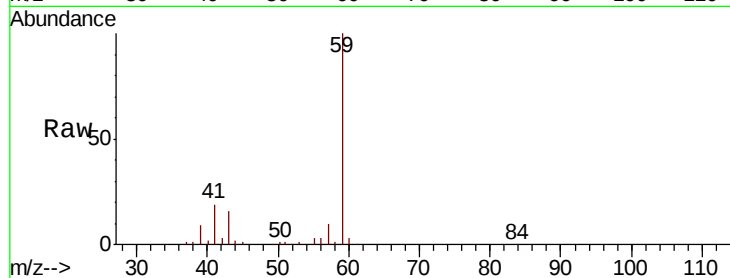


#11

Tert butyl alcohol
 Concen: 443.180 ug/l
 RT: 4.96 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

Instrument :
 MSVOA_Y
 ClientSampled :

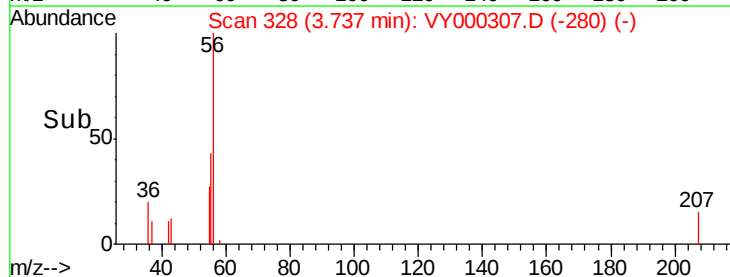
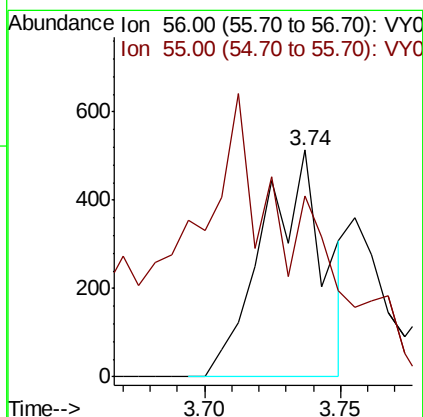
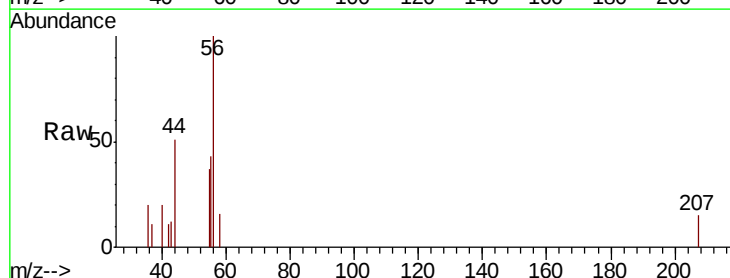
Tot Ion: 59 Resp: 114192
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.2 12.2

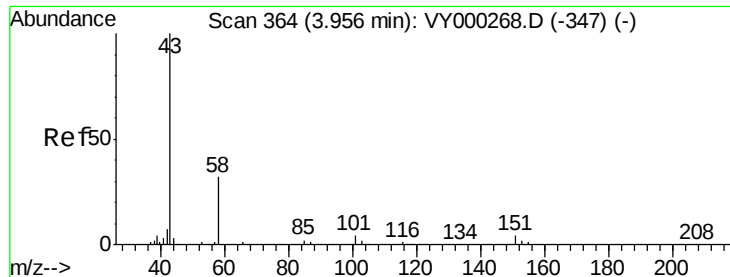


#13

Acrolein
 Concen: 2.681 ug/l
 RT: 3.74 min Scan# 328
 Delta R.T. -0.01 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

Tgt Ion: 56 Resp: 810
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.7 83.5#





#16

Acetone

Concen: 39.492 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

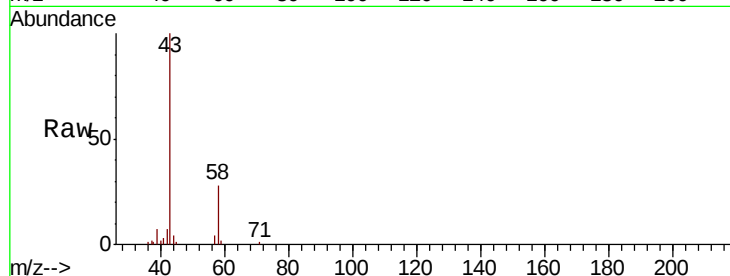
ClientSampleId :

Tot Ion: 43 Resp: 31489

Ion Ratio Lower Upper

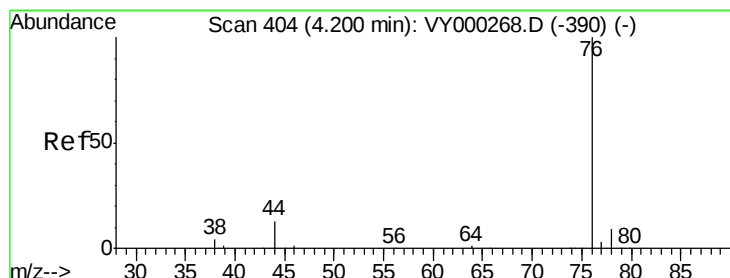
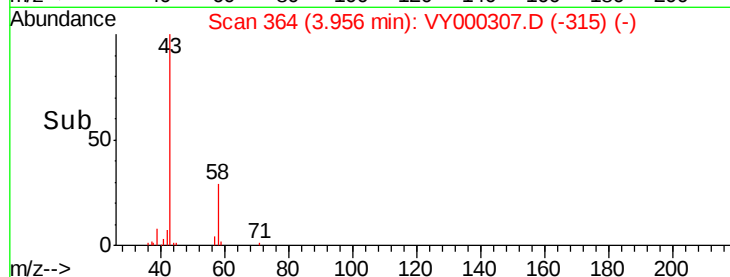
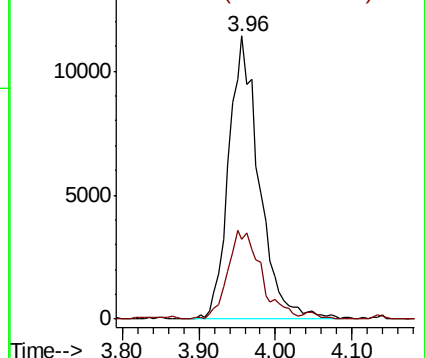
43 100

58 28.4 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: 3.617 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY000307.D

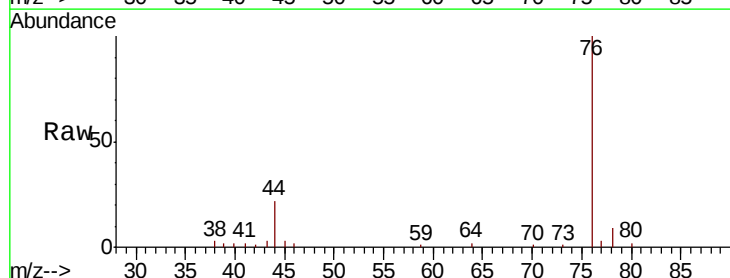
Acq: 14 Oct 2019 18:18

Tgt Ion: 76 Resp: 26845

Ion Ratio Lower Upper

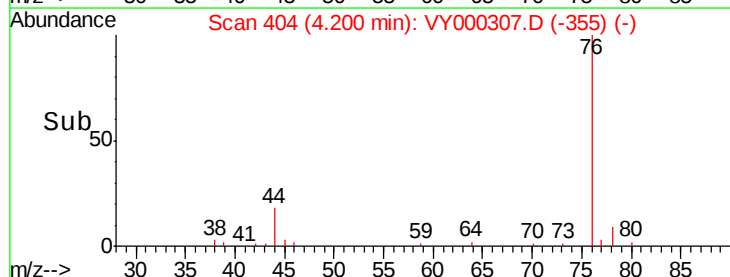
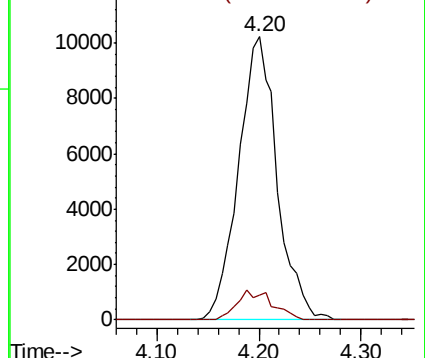
76 100

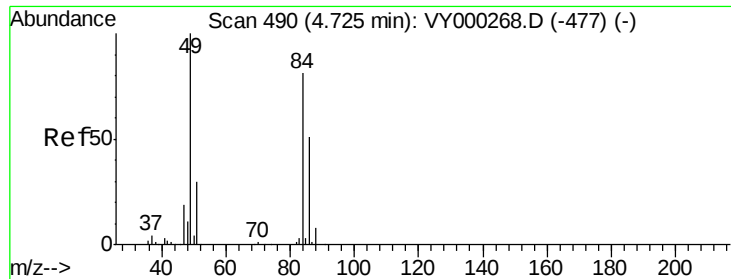
78 8.9 7.0 10.4



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

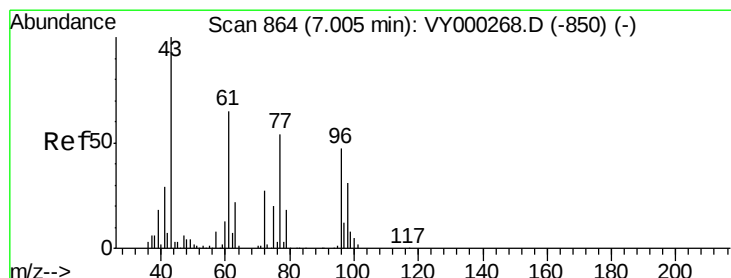
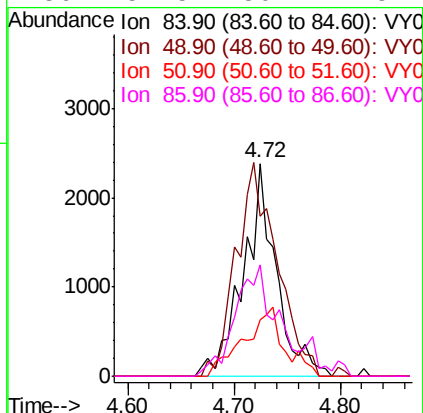
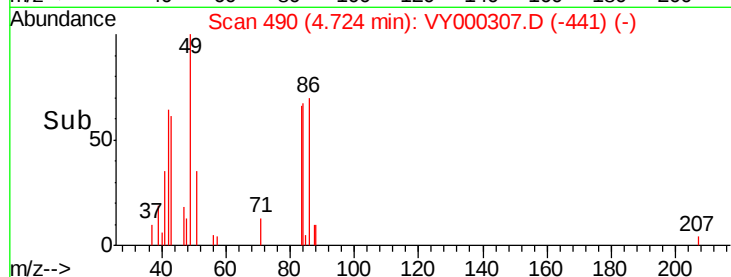
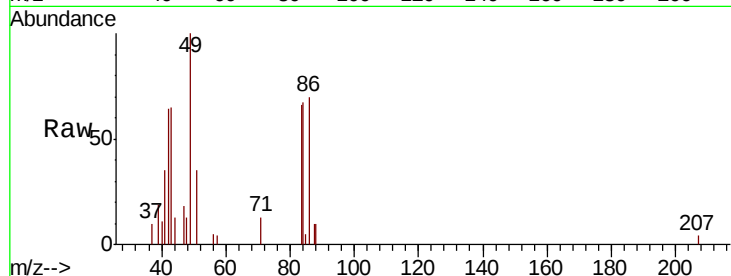




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

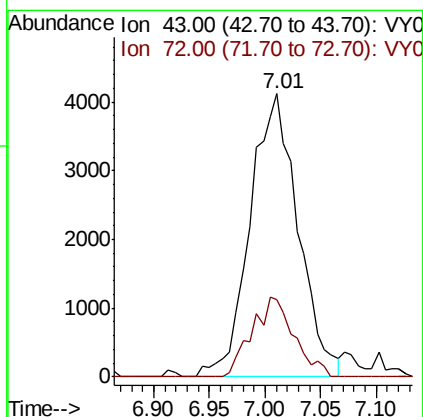
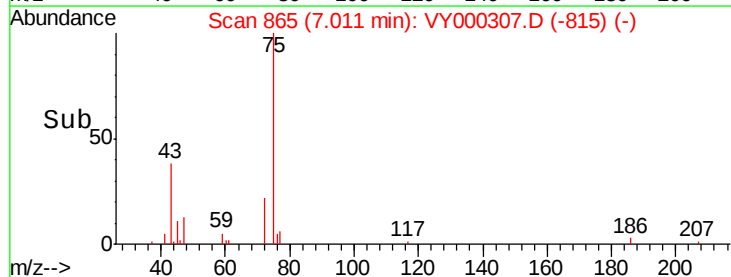
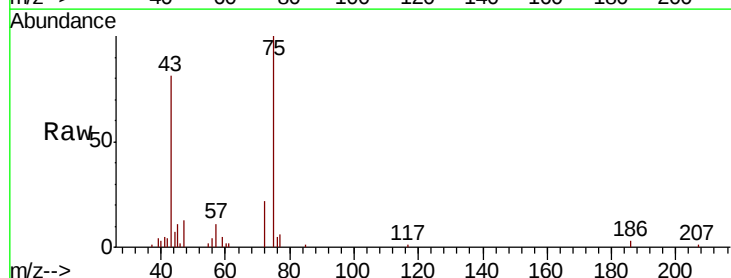
Instrument :
MSVOA_Y
ClientSampleId :

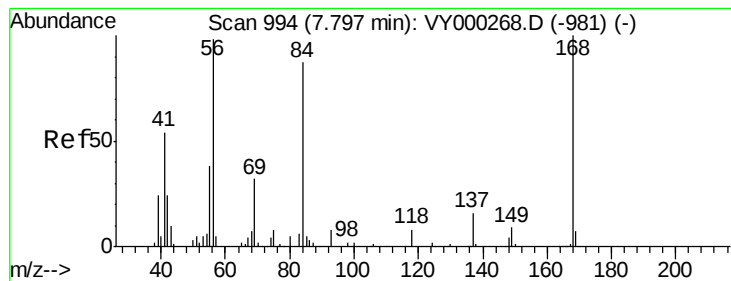
Tot Ion: 84 Resp: 5135
Ion Ratio Lower Upper
84 100
49 75.4 99.0 148.4#
51 26.2 29.3 43.9#
86 52.5 50.2 75.4



#25
2-Butanone
Concen: 10.986 ug/l
RT: 7.01 min Scan# 865
Delta R.T. 0.01 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

Tgt Ion: 43 Resp: 12340
Ion Ratio Lower Upper
43 100
72 27.4 21.4 32.2





#31

Cyclohexane

Concen: 1.954 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :
MSVOA_Y
ClientSampled :

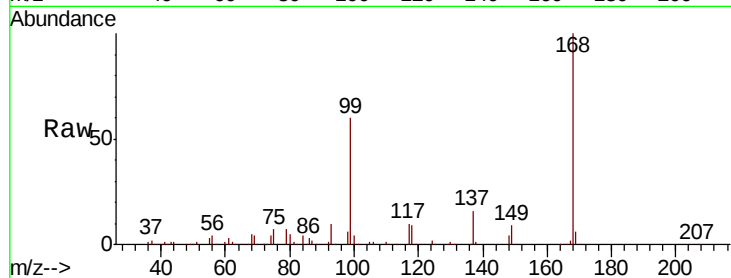
Tot Ion: 56 Resp: 9205

Ion Ratio Lower Upper

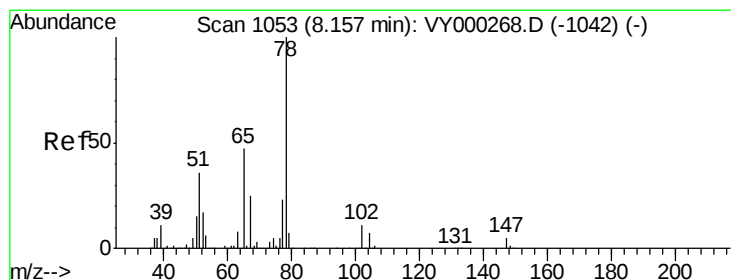
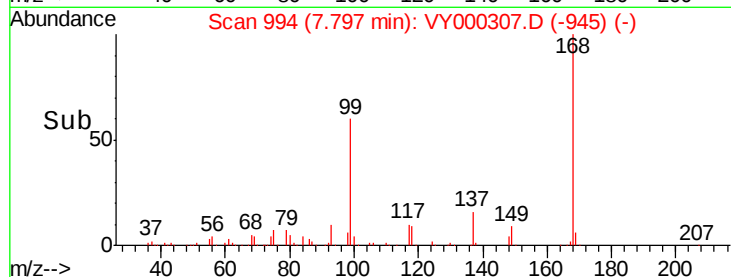
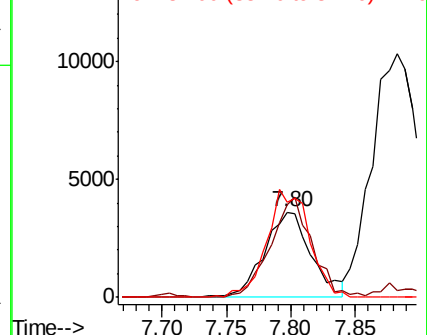
56 100

69 108.3 26.3 39.5#

84 112.0 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: 63.723 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000307.D

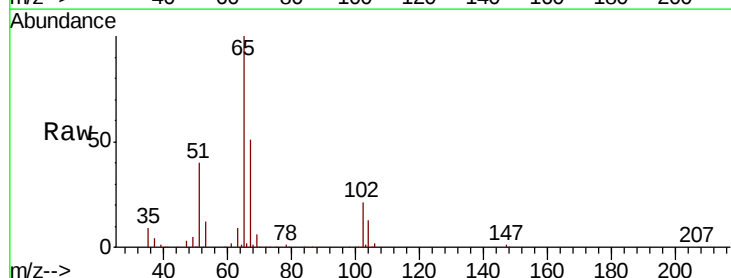
Acq: 14 Oct 2019 18:18

Tgt Ion: 65 Resp: 156894

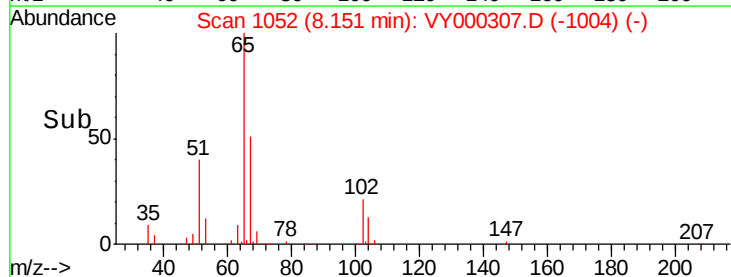
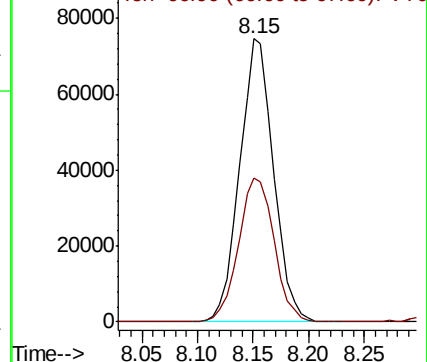
Ion Ratio Lower Upper

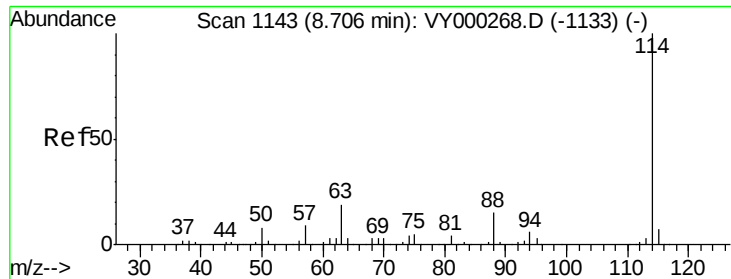
65 100

67 53.7 0.0 109.4



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

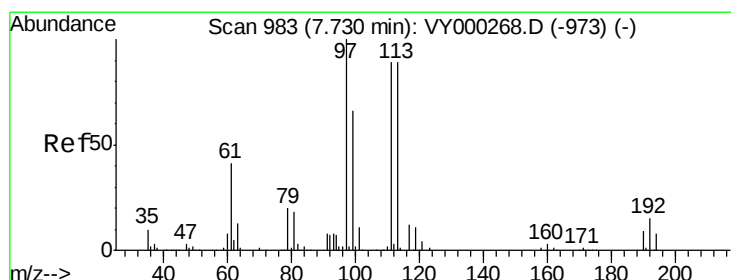
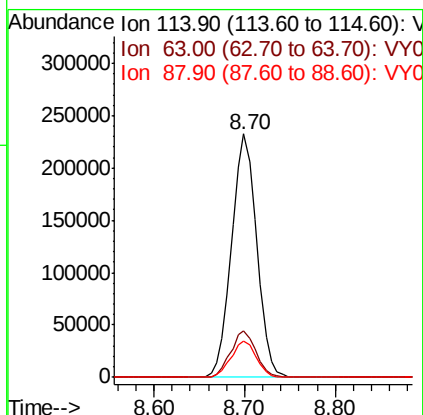
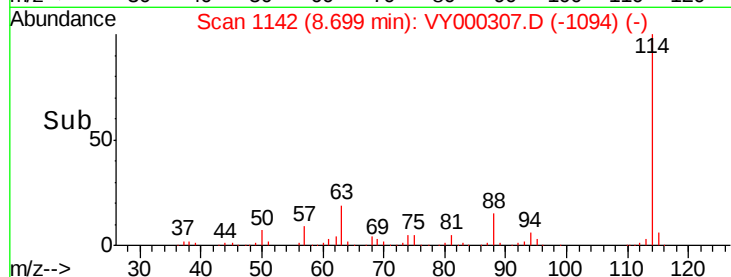
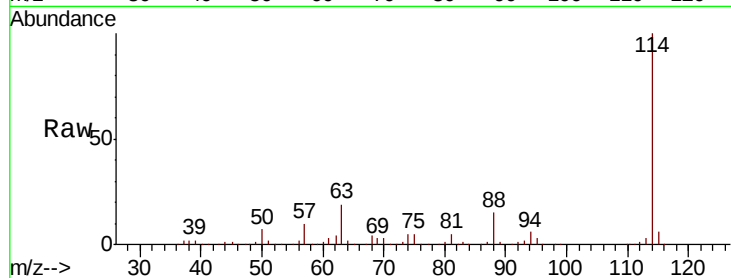




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

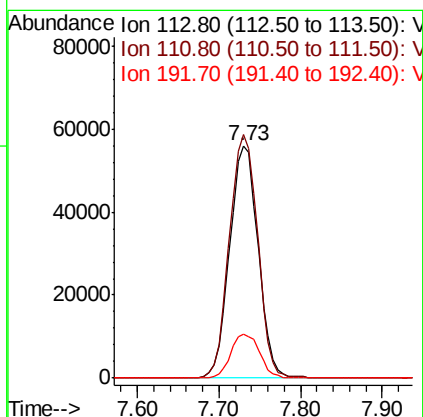
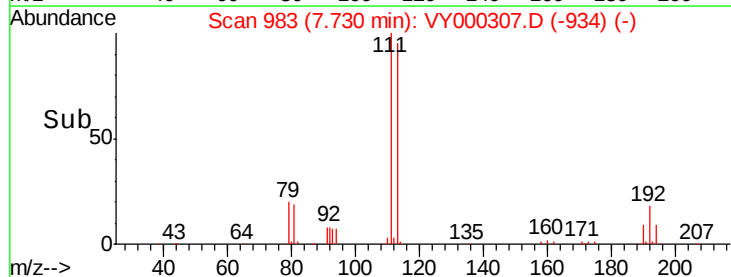
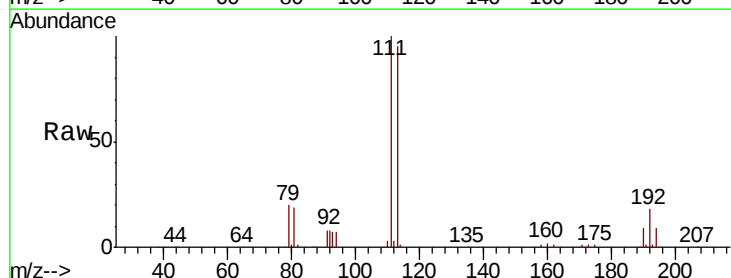
Instrument :
 MSVOA_Y
 ClientSampleId :

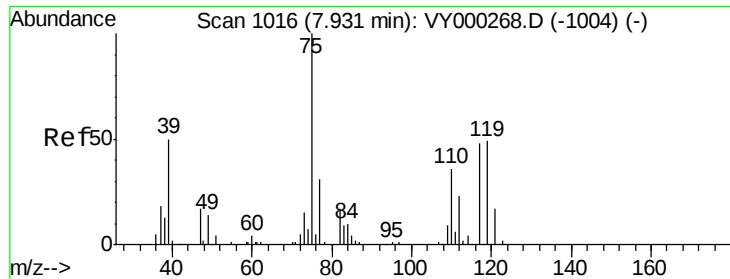
Tot Ion:114 Resp: 447766
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.2
 88 14.9 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 49.799 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

Tgt Ion:113 Resp: 134505
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.6 122.4
 192 19.3 15.3 22.9

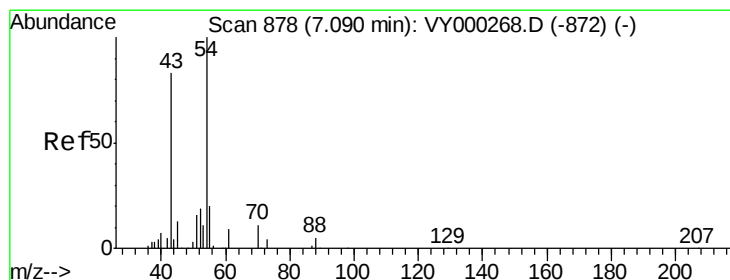
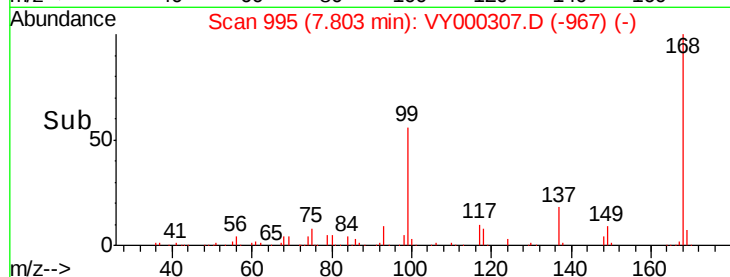
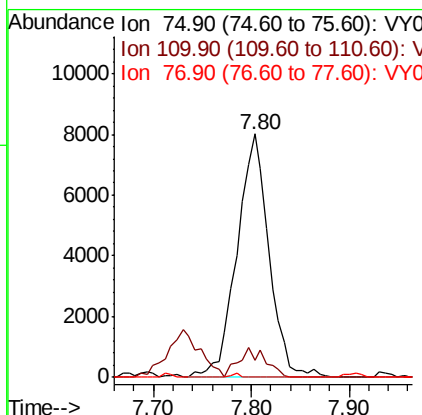
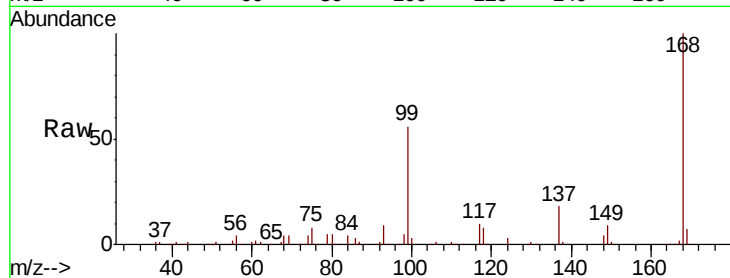




#36
 1,1-Dichloropropene
 Concen: 4.160 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

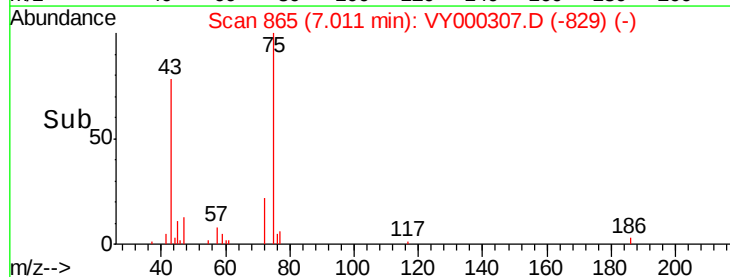
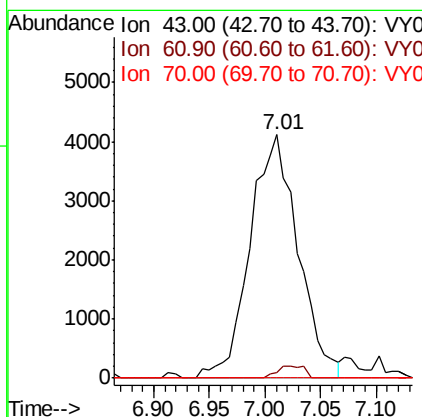
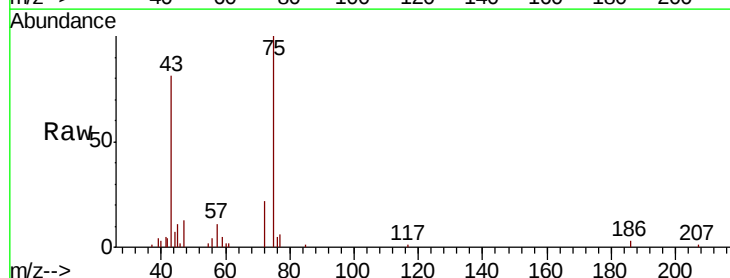
Instrument :
 MSVOA_Y
 ClientSampleId :

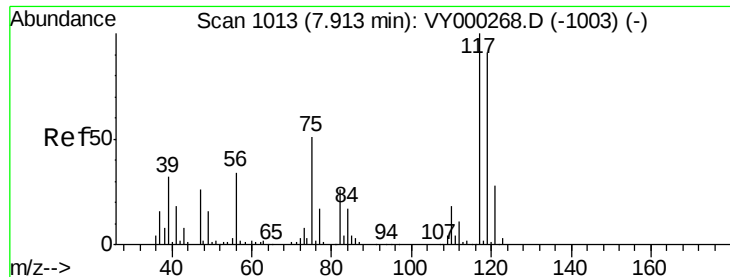
Tot Ion: 75 Resp: 18239
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.4 55.4#
 77 0.4 25.0 37.6#



#37
 Ethyl Acetate
 Concen: 4.754 ug/l
 RT: 7.01 min Scan# 865
 Delta R.T. -0.08 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

Tgt Ion: 43 Resp: 12340
 Ion Ratio Lower Upper
 43 100
 61 2.8 12.1 18.1#
 70 0.0 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 5.474 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.11 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

ClientSampleId :

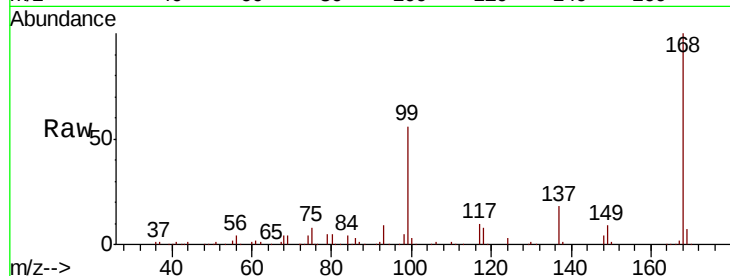
Tot Ion:117 Resp: 23234

Ion Ratio Lower Upper

117 100

119 3.7 72.8 109.2#

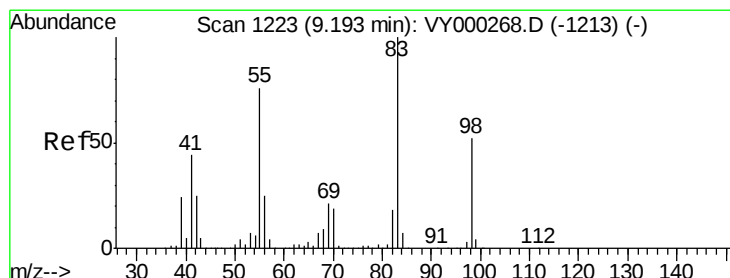
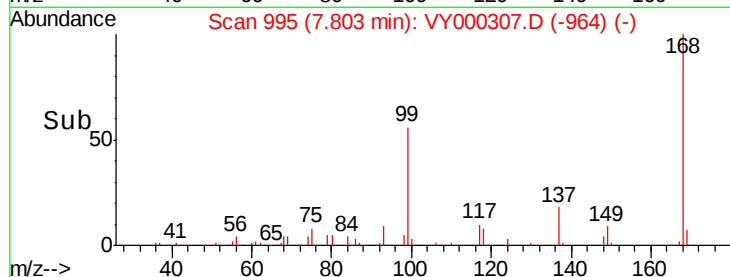
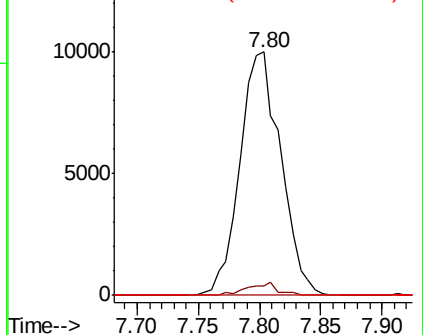
121 0.0 22.2 33.2#



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



#39

Methylcyclohexane

Concen: 3.194 ug/l

RT: 9.15 min Scan# 1216

Delta R.T. -0.04 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

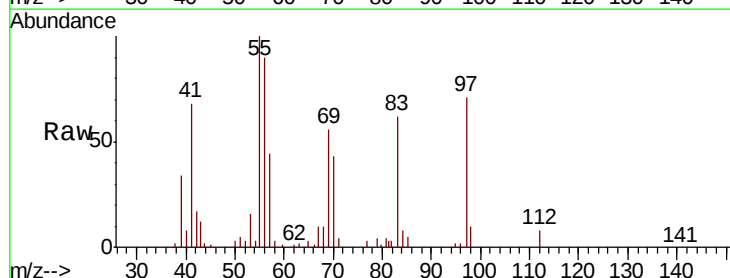
Tgt Ion: 83 Resp: 18327

Ion Ratio Lower Upper

83 100

55 159.2 60.9 91.3#

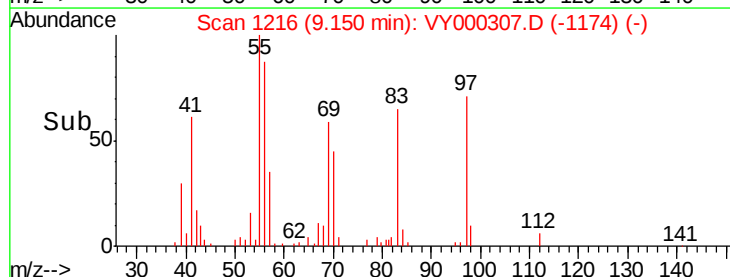
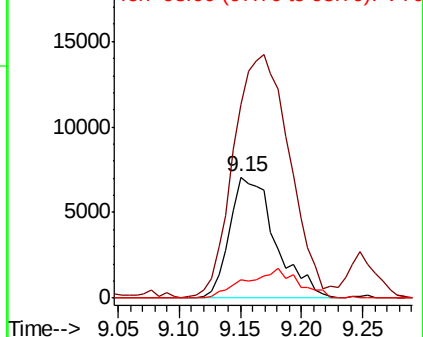
98 15.4 41.8 62.6#

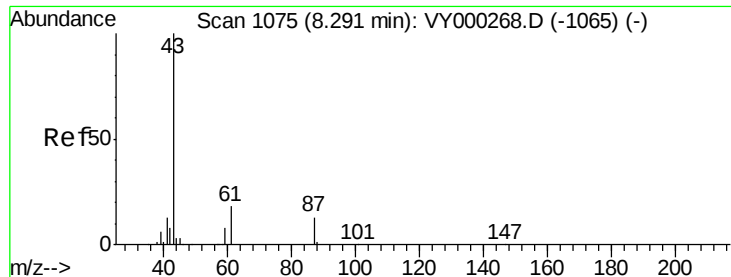


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#43

Isopropyl Acetate

Concen: 4.529 ug/l

RT: 8.26 min Scan# 1070

Delta R.T. -0.03 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

ClientSampled :

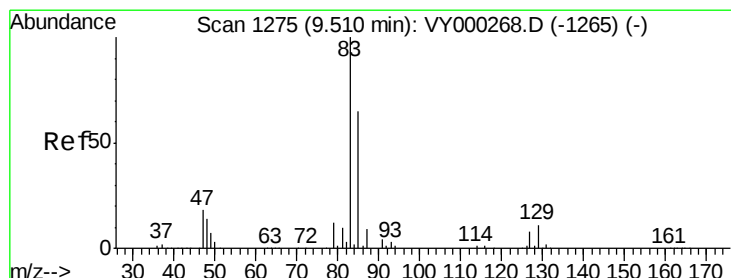
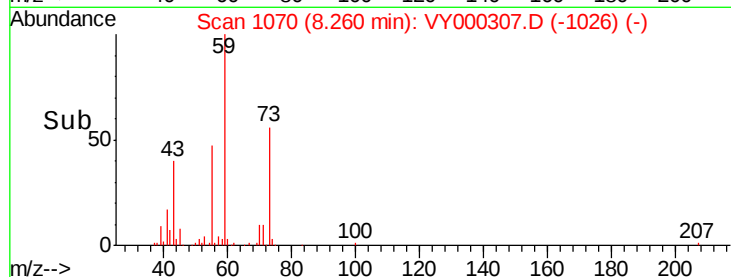
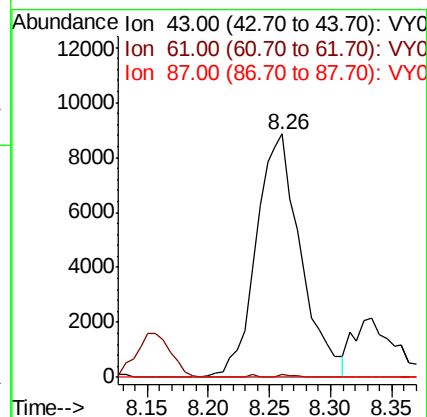
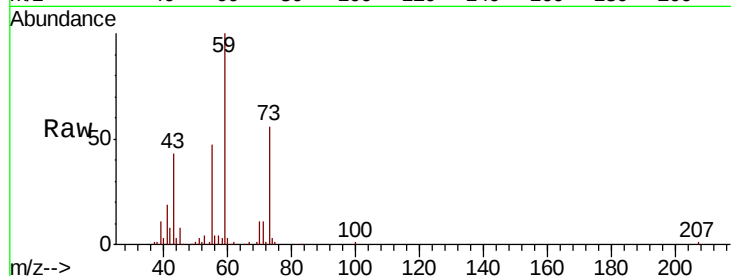
Tot Ion: 43 Resp: 22356

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

87 0.0 10.9 16.3#



#47

Bromodichloromethane

Concen: 1.481 ug/l

RT: 9.47 min Scan# 1269

Delta R.T. -0.04 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

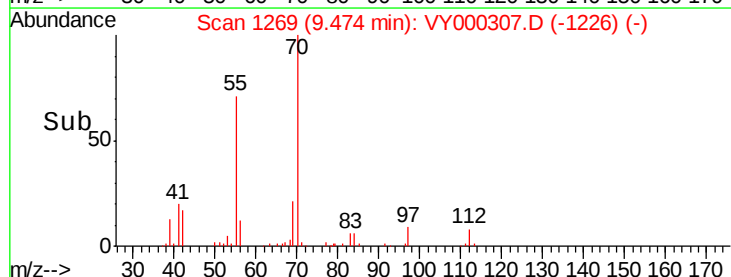
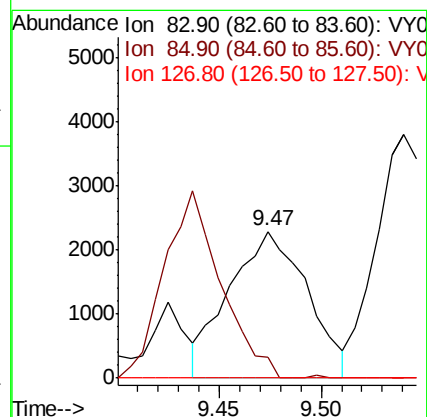
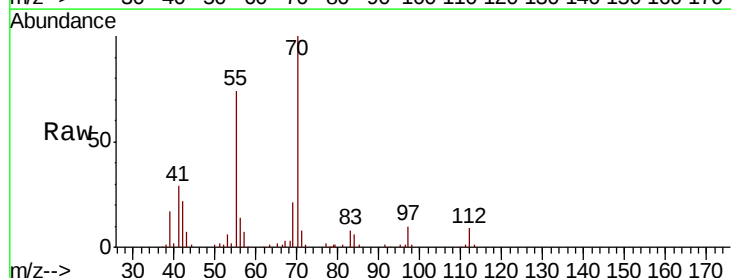
Tgt Ion: 83 Resp: 6066

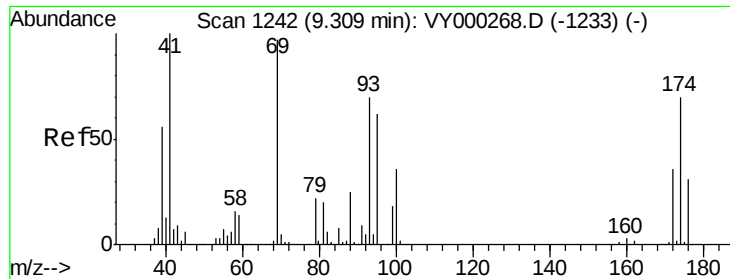
Ion Ratio Lower Upper

83 100

85 17.7 52.2 78.2#

127 0.0 6.3 9.5#





#49

1,4-Dioxane

Concen: 1.113 ug/l

RT: 9.49 min Scan# 1271

Delta R.T. 0.18 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

ClientSampleId :

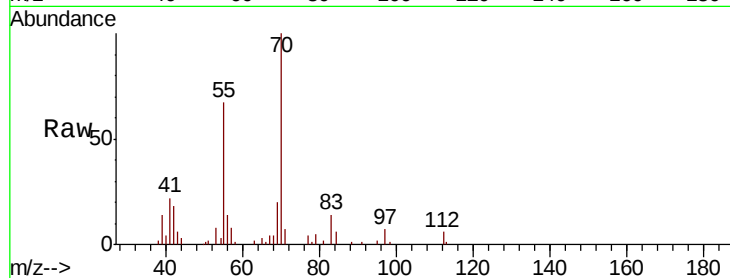
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 25.6 38.4#

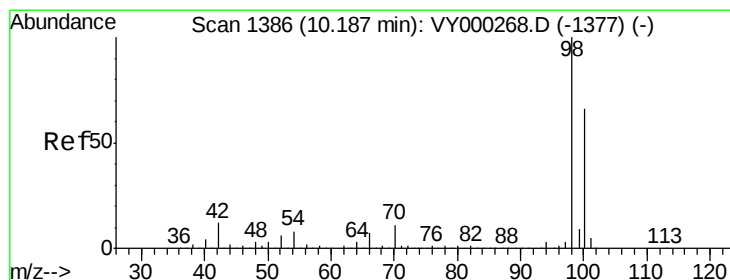
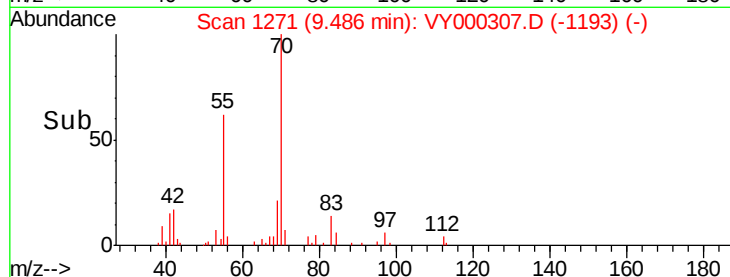
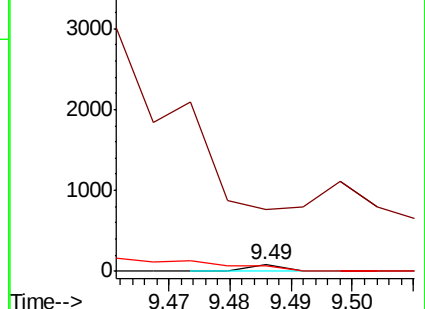
58 0.0 54.6 81.8#



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: 50.866 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY000307.D

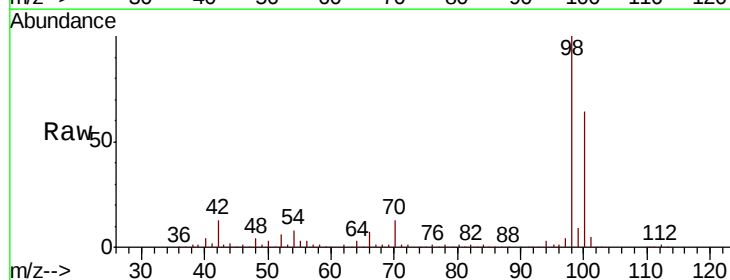
Acq: 14 Oct 2019 18:18

Tgt Ion: 98 Resp: 528489

Ion Ratio Lower Upper

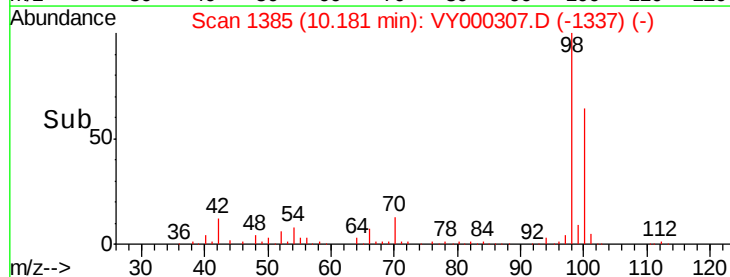
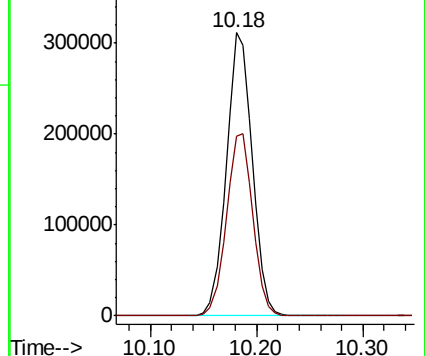
98 100

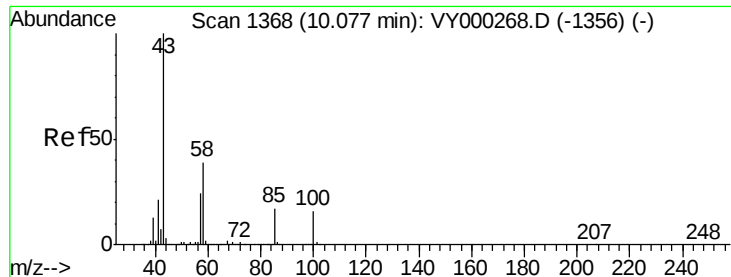
100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

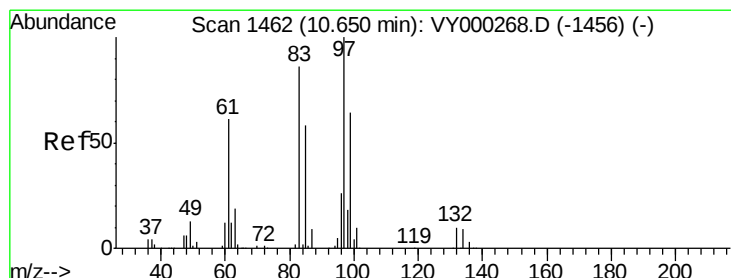
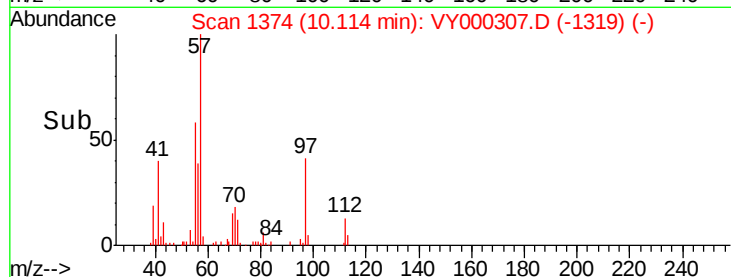
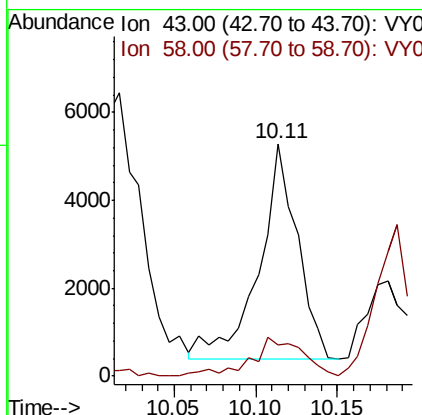
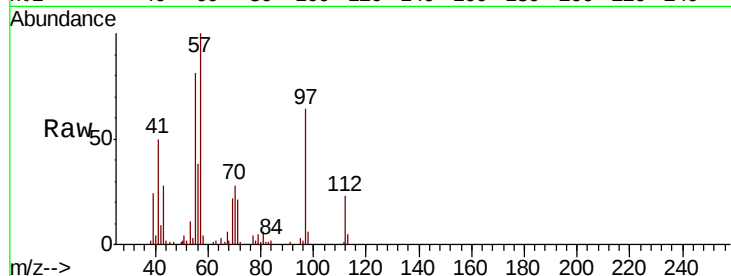




#51
4-Methyl-2-Pentanone
Concen: 3.148 ug/l
RT: 10.11 min Scan# 1374
Delta R.T. 0.04 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

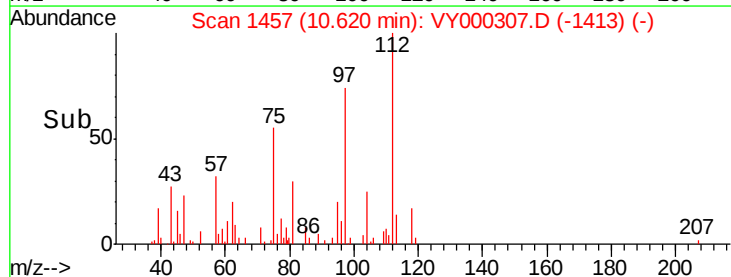
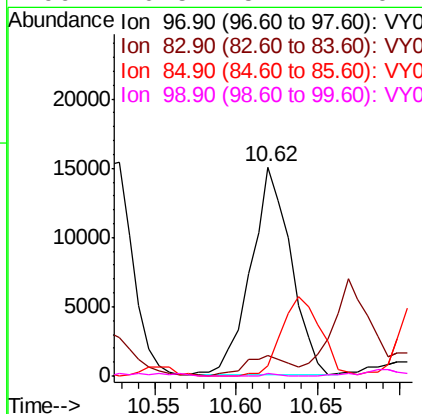
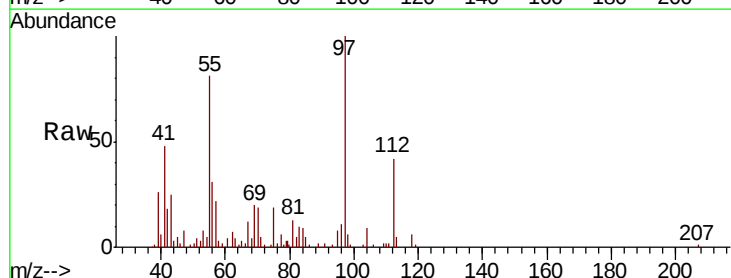
Instrument :
MSVOA_Y
ClientSampleId :

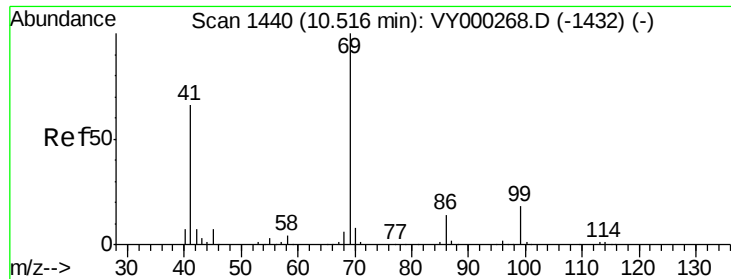
Tot Ion: 43 Resp: 8015
Ion Ratio Lower Upper
43 100
58 22.0 31.0 46.6#



#55
1,1,2-Trichloroethane
Concen: 10.158 ug/l
RT: 10.62 min Scan# 1457
Delta R.T. -0.03 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

Tgt Ion: 97 Resp: 25669
Ion Ratio Lower Upper
97 100
83 8.9 69.0 103.6#
85 4.0 46.2 69.4#
99 0.5 51.1 76.7#





#56

Ethyl methacrylate

Concen: 1.902 ug/l

RT: 10.52 min Scan# 1441

Delta R.T. 0.01 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

ClientSampleId :

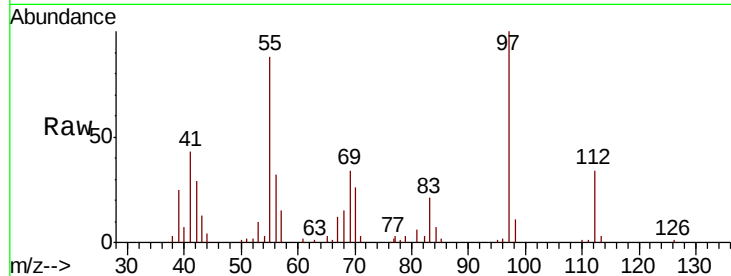
Tot Ion: 69 Resp: 6851

Ion Ratio Lower Upper

69 100

41 178.3 52.5 78.7#

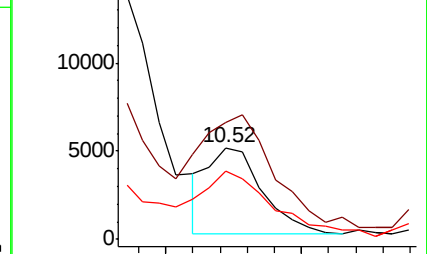
39 102.8 26.7 40.1#



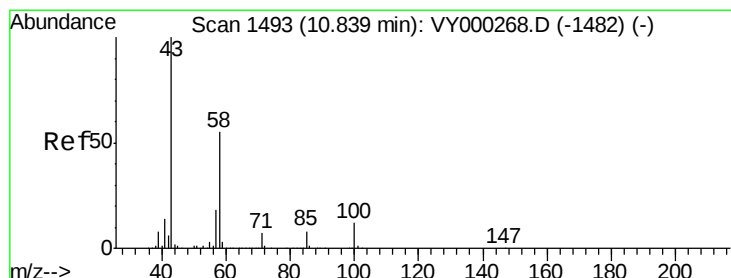
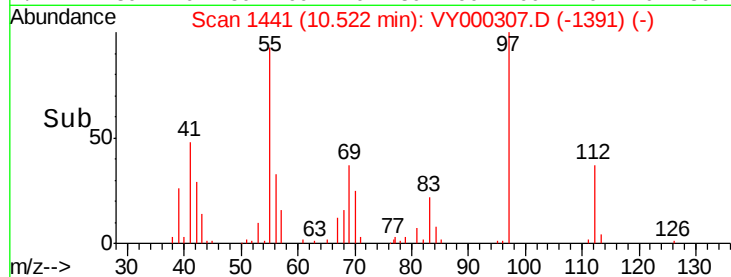
Abundance Ion 69.00 (68.70 to 69.70): VY000307.D (-1432) (-)

Ion 41.00 (40.70 to 41.70): VY000307.D (-1432) (-)

Ion 39.00 (38.70 to 39.70): VY000307.D (-1432) (-)



Time-->



#59

2-Hexanone

Concen: 41.652 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.04 min

Lab File: VY000307.D

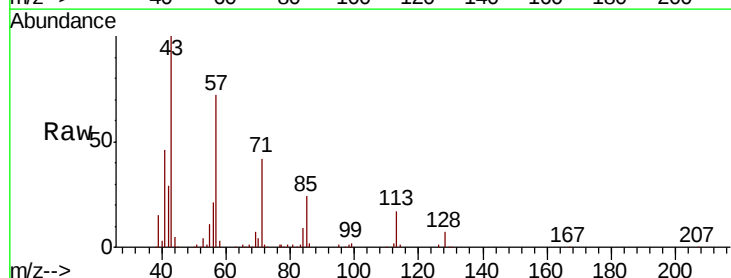
Acq: 14 Oct 2019 18:18

Tgt Ion: 43 Resp: 74426

Ion Ratio Lower Upper

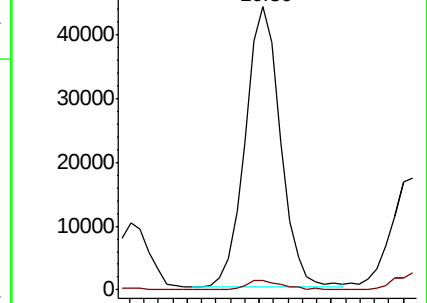
43 100

58 3.8 27.7 83.1#

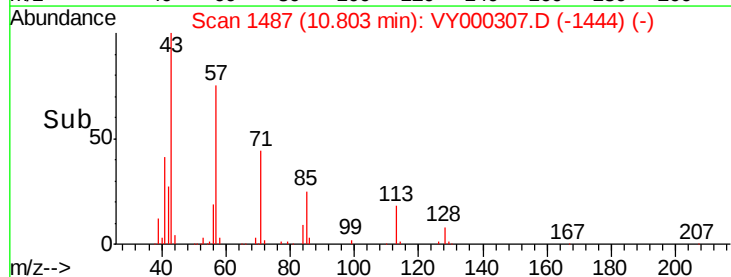


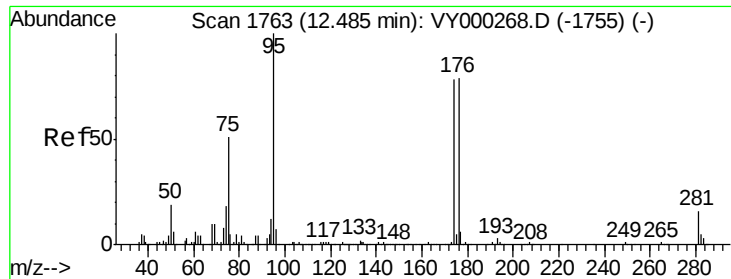
Abundance Ion 43.00 (42.70 to 43.70): VY000307.D (-1444) (-)

Ion 58.00 (57.70 to 58.70): VY000307.D (-1444) (-)



Time-->

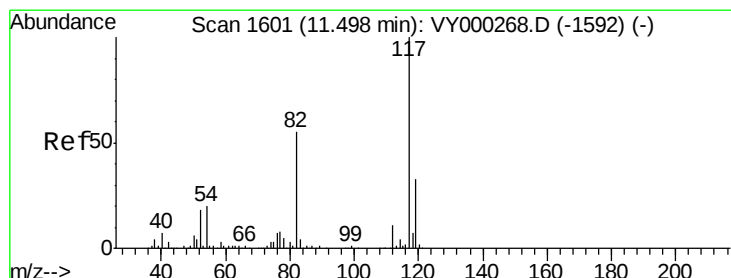
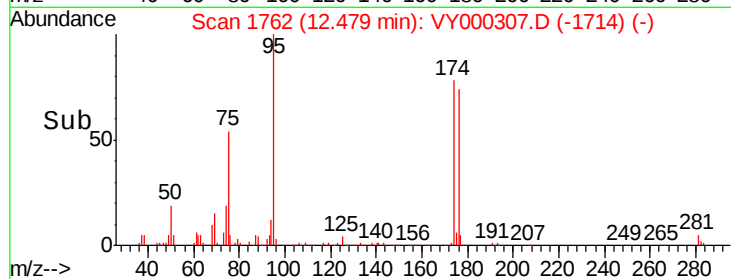
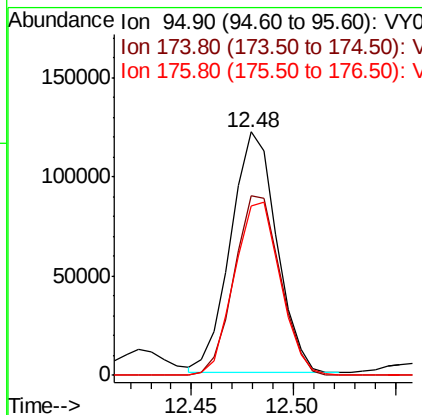
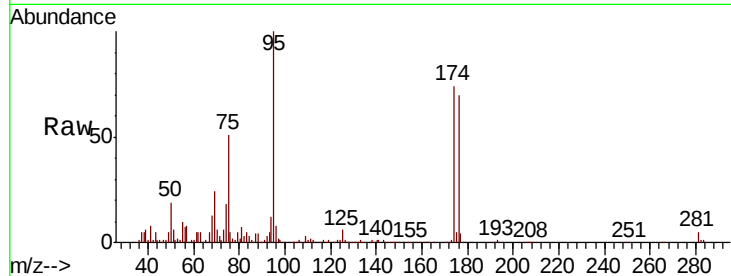




#62
4-Bromofluorobenzene
Concen: 48.407 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

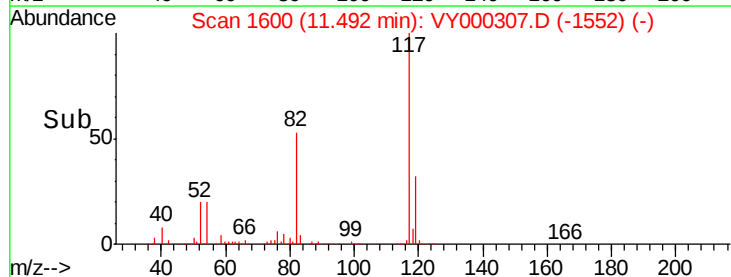
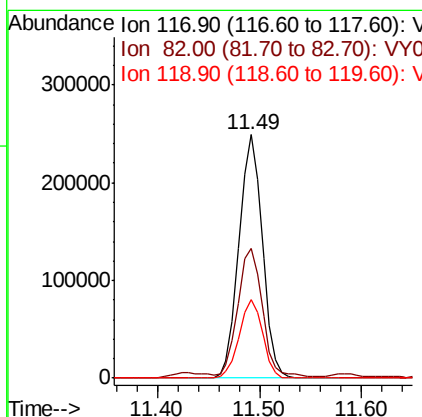
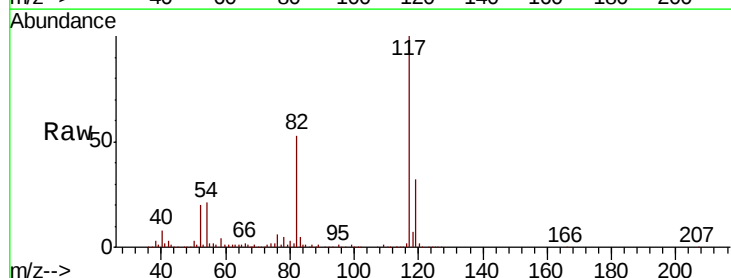
Instrument :
MSVOA_Y
ClientSampleId :

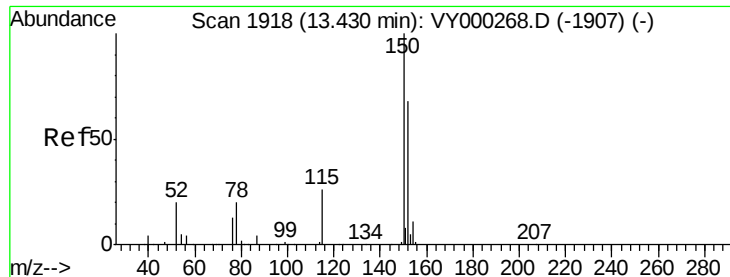
Tot Ion: 95 Resp: 191073
Ion Ratio Lower Upper
95 100
174 74.7 0.0 159.6
176 72.0 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

Tgt Ion: 117 Resp: 394552
Ion Ratio Lower Upper
117 100
82 51.6 43.7 65.5
119 32.1 26.6 39.8



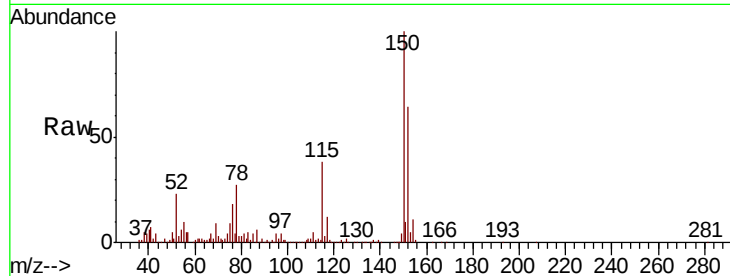


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.4	29.3	88.0
150	151.4	0.0	348.4

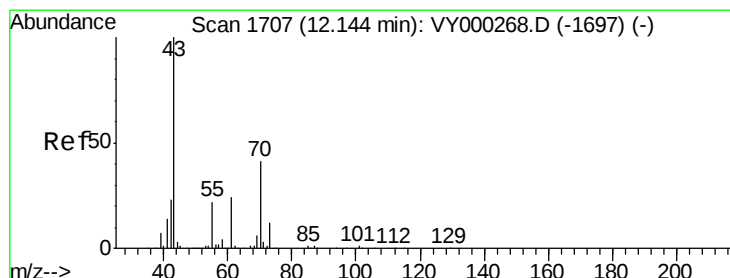
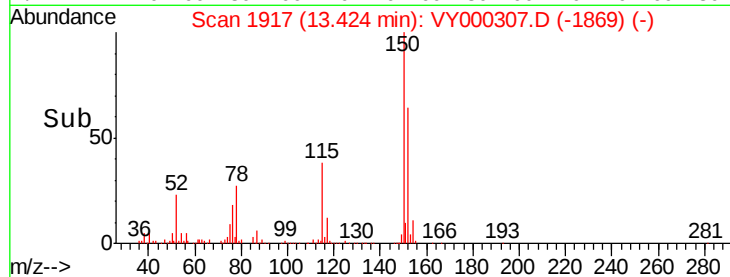
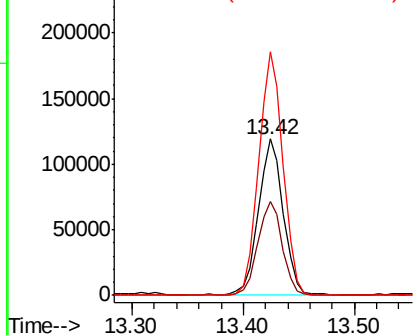


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

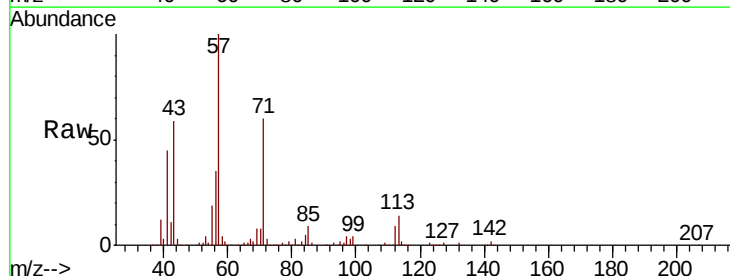
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 20.574 ug/l
RT: 12.12 min Scan# 1703
Delta R.T. -0.02 min
Lab File: VY000307.D
Acq: 14 Oct 2019 18:18

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



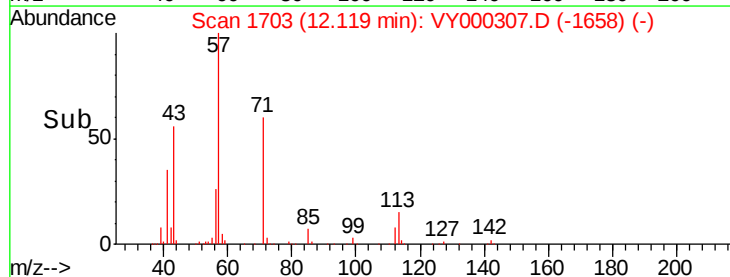
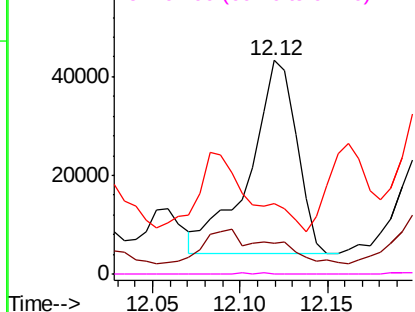
Abundance

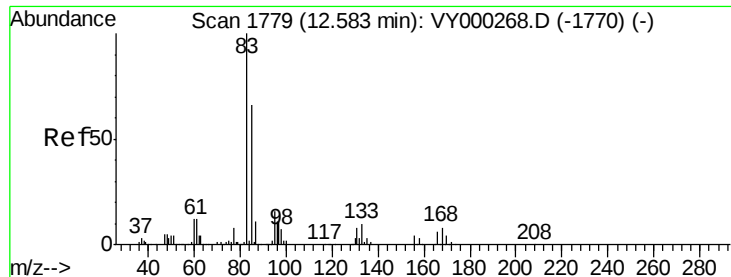
Ion 43.00 (42.70 to 43.70): VY0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 5.286 ug/l

RT: 12.56 min Scan# 1776

Delta R.T. -0.02 min

Lab File: VY000307.D

Acq: 14 Oct 2019 18:18

Instrument :

MSVOA_Y

ClientSampled :

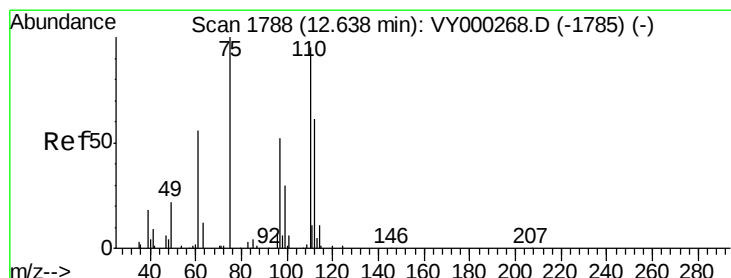
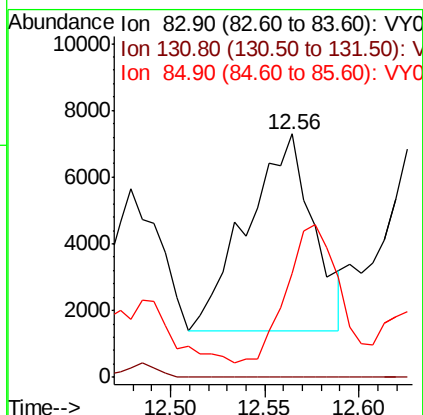
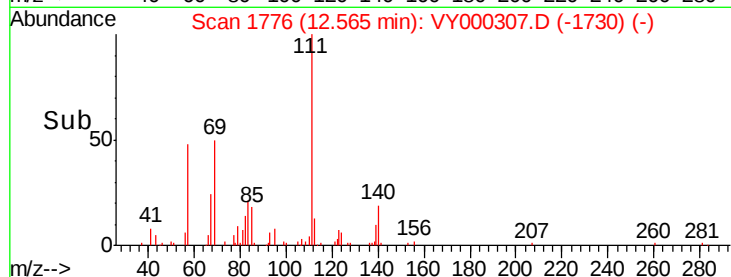
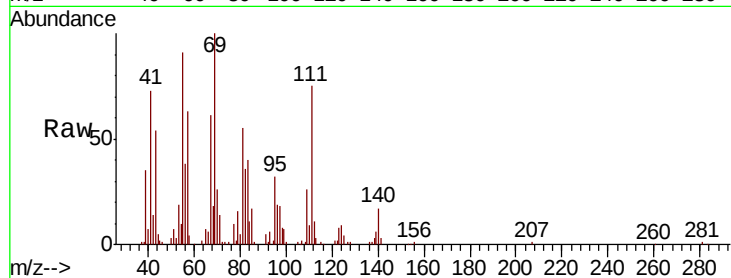
Tot Ion: 83 Resp: 14326

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 56.2 32.9 98.7



#76

1,2,3-Trichloropropane

Concen: 42.709 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY000307.D

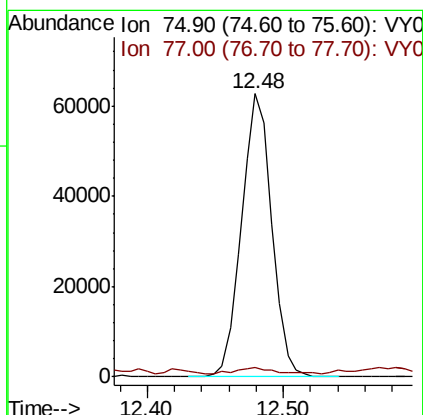
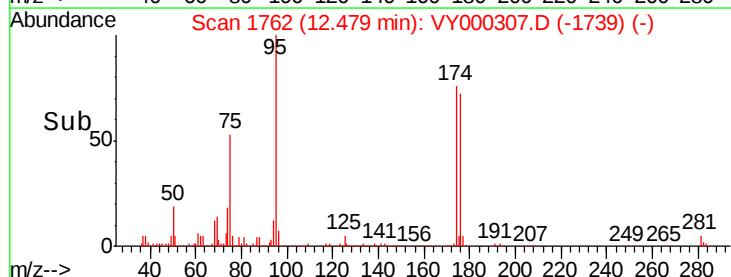
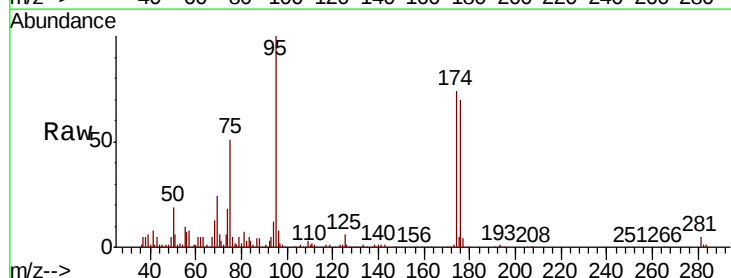
Acq: 14 Oct 2019 18:18

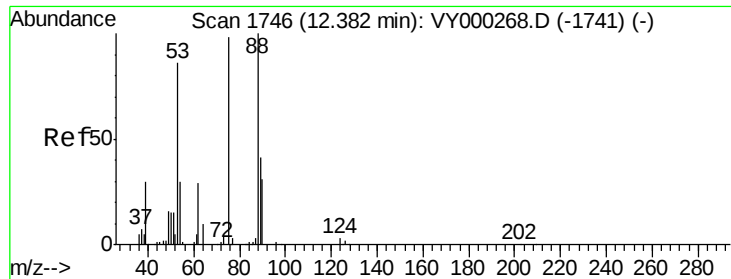
Tgt Ion: 75 Resp: 97226

Ion Ratio Lower Upper

75 100

77 2.5 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.445 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY000307.D
 Acq: 14 Oct 2019 18:18

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 75 Resp: 97226
 Ion Ratio Lower Upper
 75 100
 53 3.2 71.3 106.9#
 89 0.0 35.1 52.7#

