

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071620\
 Data File : VY003213.D
 Acq On : 16 Jul 2020 16:42
 Operator : SY/MD
 Sample : L3308-03
 Misc : 5.04G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 3

Quant Time: Jul 17 05:21:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y071020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 13:18:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	14467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	22093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	15149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	3115	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	9334	76.44	ug/l	0.00
Spiked Amount			Recovery	=	152.88%	
35) Dibromofluoromethane	7.72	113	6897	54.25	ug/l	0.00
Spiked Amount			Recovery	=	108.50%	
50) Toluene-d8	10.18	98	25303	53.53	ug/l	0.00
Spiked Amount			Recovery	=	107.06%	
62) 4-Bromofluorobenzene	12.48	95	4998	29.27	ug/l	0.00
Spiked Amount			Recovery	=	58.54%	

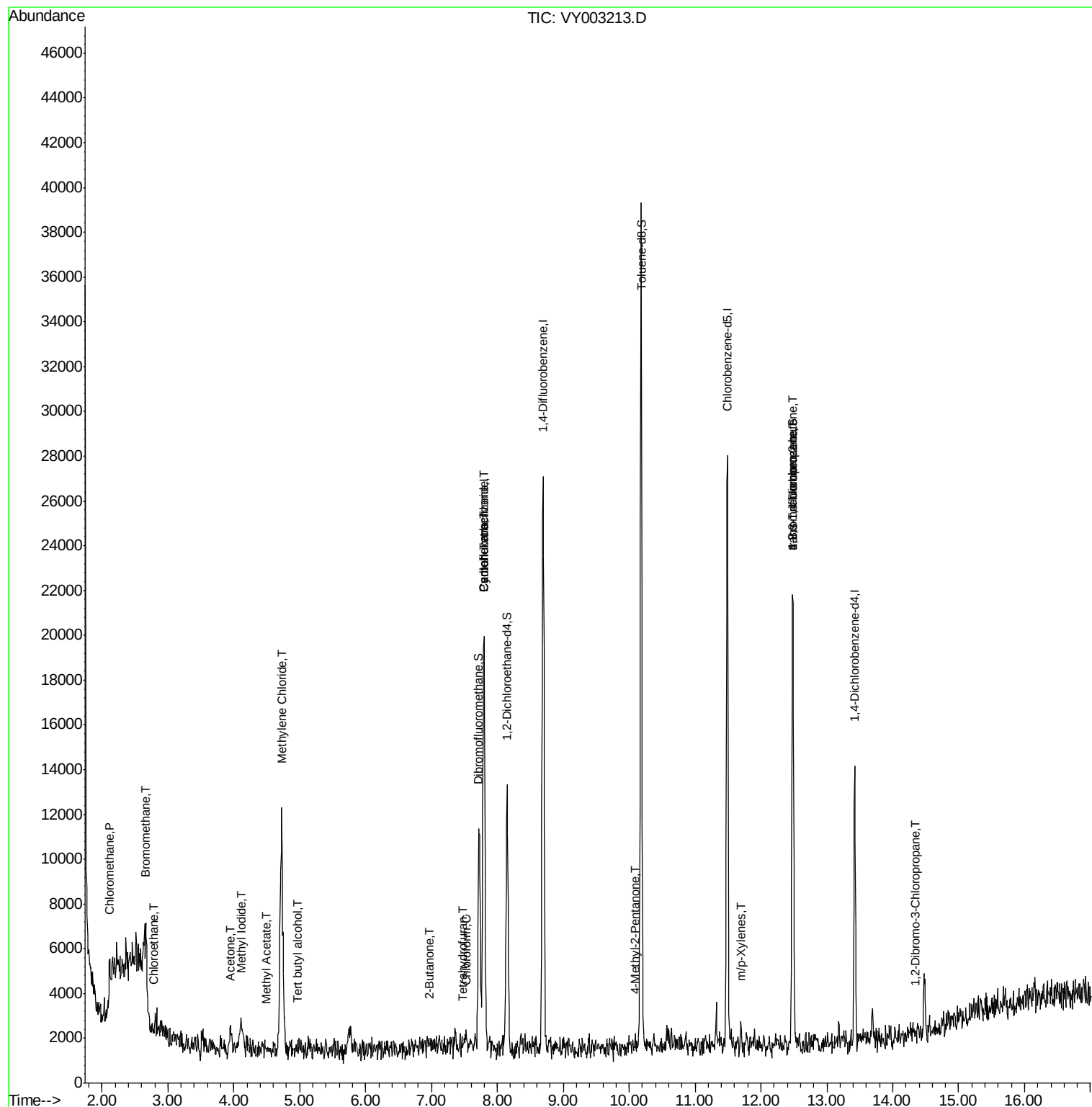
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.12	50	1272	8.844	ug/l	94
5) Bromomethane	2.66	94	1302	11.879	ug/l #	53
6) Chloroethane	2.79	64	97	1.001	ug/l #	42
10) Methyl Iodide	4.10	142	2194	15.867	ug/l	98
11) Tert butyl alcohol	4.96	59	88	6.665	ug/l #	72
16) Acetone	3.94	43	732	26.838	ug/l	95
18) Methyl Acetate	4.49	43	79	1.043	ug/l #	49
20) Methylene Chloride	4.73	84	7428	54.637	ug/l	89
25) 2-Butanone	6.97	43	72	1.608	ug/l #	49
29) Tetrahydrofuran	7.47	42	56	1.861	ug/l #	34
30) Chloroform	7.53	83	358	1.513	ug/l #	57
31) Cyclohexane	7.80	56	425	1.914	ug/l #	14
38) Carbon Tetrachloride	7.80	117	1465	7.087	ug/l #	13
51) 4-Methyl-2-Pentanone	10.08	43	114	1.051	ug/l #	34
68) m/p-Xylenes	11.70	106	363	1.836	ug/l	82
76) 1,2,3-Trichloropropane	12.48	75	2906	105.393	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	2906	205.114	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.34	75	19	3.057	ug/l #	1

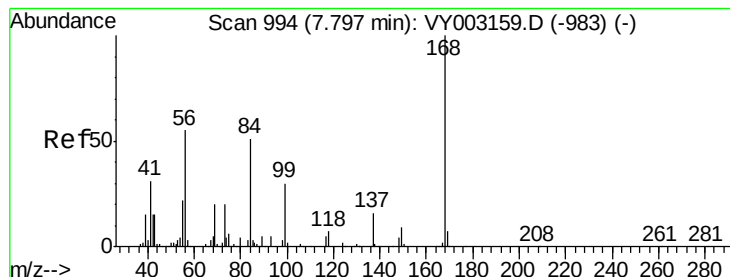
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampled :

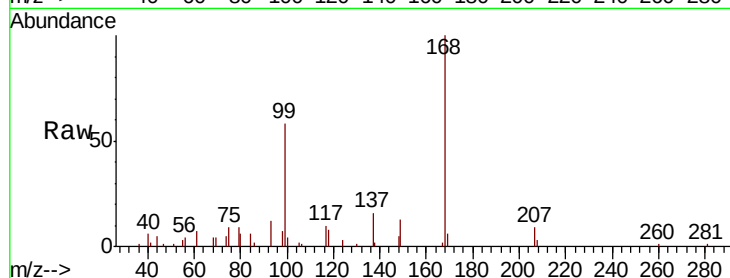
3

Tot Ion:168 Resp: 14467

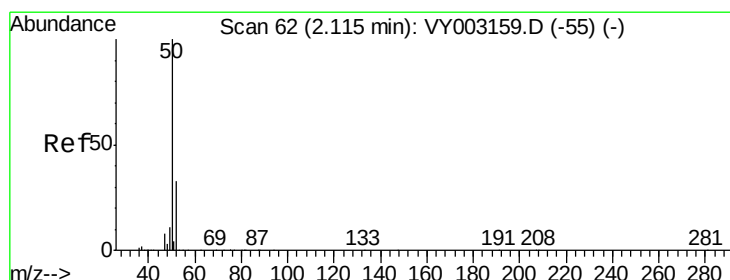
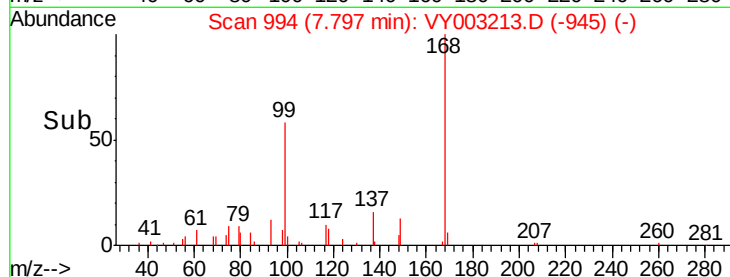
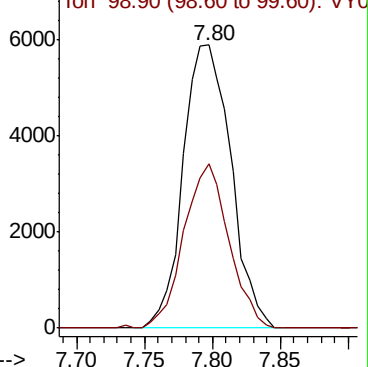
Ion Ratio Lower Upper

168 100

99 58.2 37.3 55.9#



Abundance Ion 167.90 (167.60 to 168.60): VY003213.D (-945) (-)



#3

Chloromethane

Concen: 8.844 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003213.D

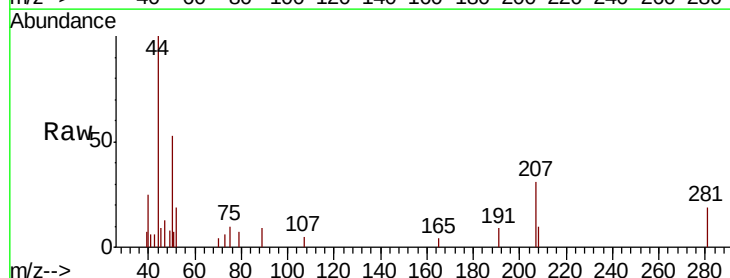
Acq: 16 Jul 2020 16:42

Tgt Ion: 50 Resp: 1272

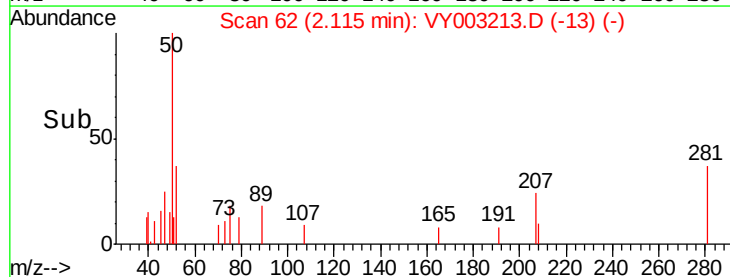
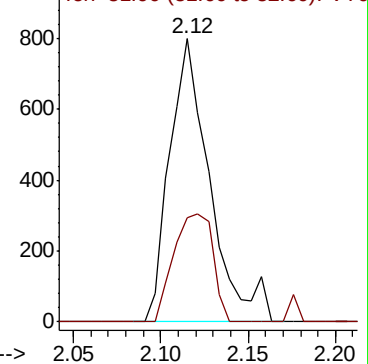
Ion Ratio Lower Upper

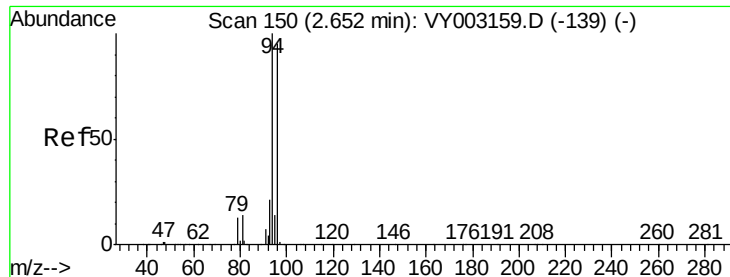
50 100

52 36.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VY003213.D (-13) (-)





#5

Bromomethane

Concen: 11.879 ug/l

RT: 2.66 min Scan# 152

Delta R.T. 0.01 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

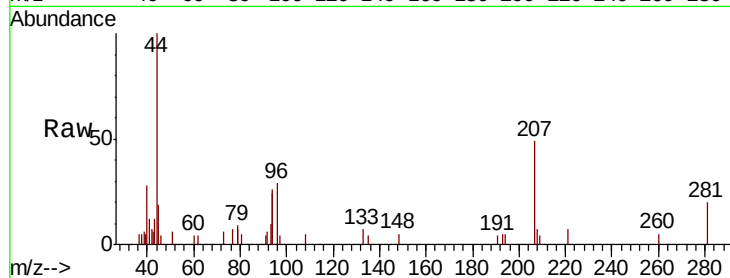
Instrument :
MSVOA_Y
ClientSampled :
3

Tot Ion: 94 Resp: 1302

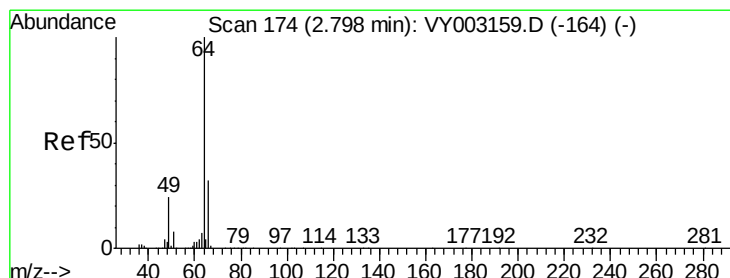
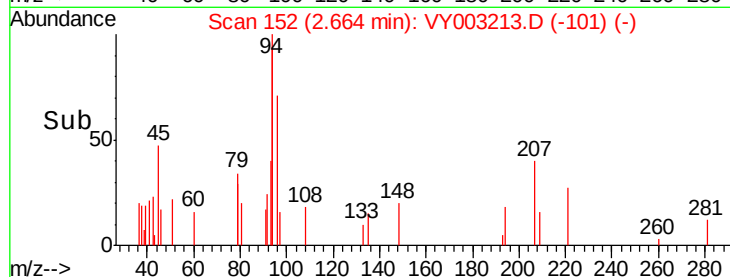
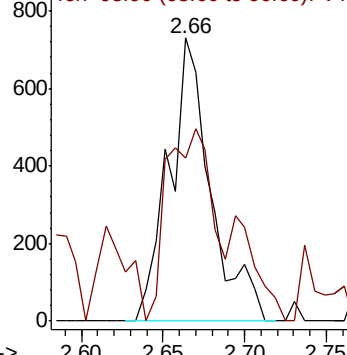
Ion Ratio Lower Upper

94 100

96 49.6 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VY0
Ion 95.90 (95.60 to 96.60): VY0



#6

Chloroethane

Concen: 1.001 ug/l

RT: 2.79 min Scan# 172

Delta R.T. -0.01 min

Lab File: VY003213.D

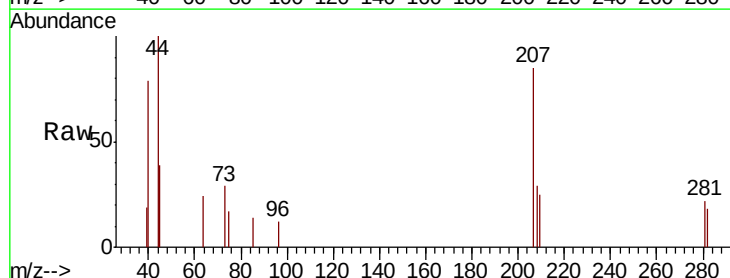
Acq: 16 Jul 2020 16:42

Tgt Ion: 64 Resp: 97

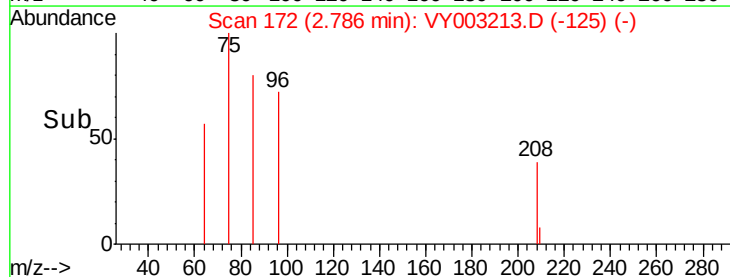
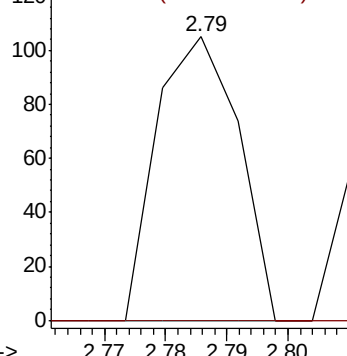
Ion Ratio Lower Upper

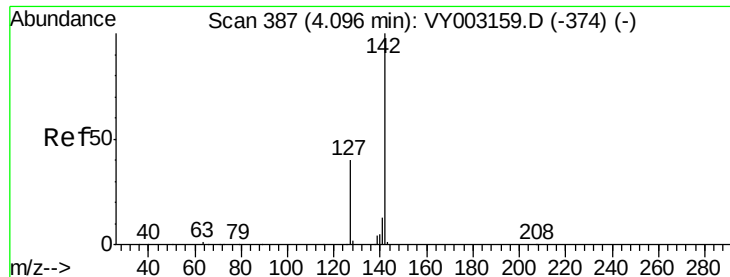
64 100

66 0.0 26.0 39.0#



Abundance Ion 63.90 (63.60 to 64.60): VY0
Ion 65.90 (65.60 to 66.60): VY0

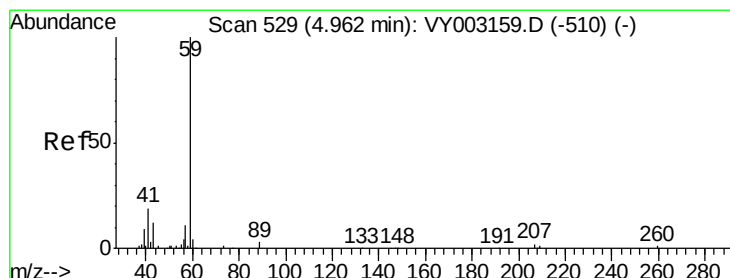
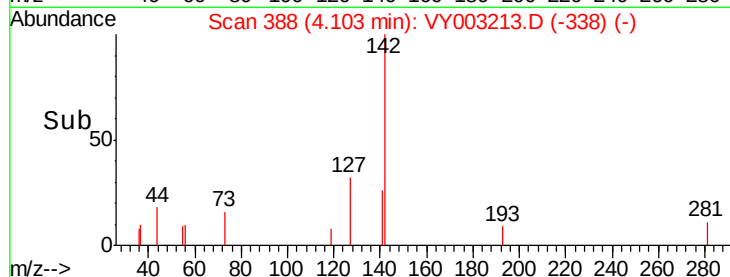
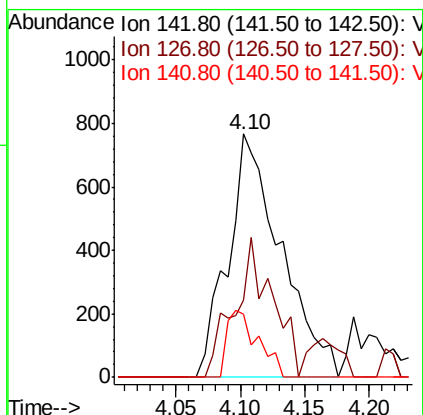
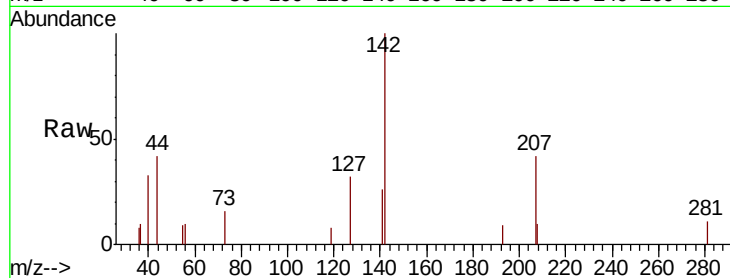




#10
Methyl Iodide
Concen: 15.867 ug/l
RT: 4.10 min Scan# 388
Delta R.T. 0.01 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

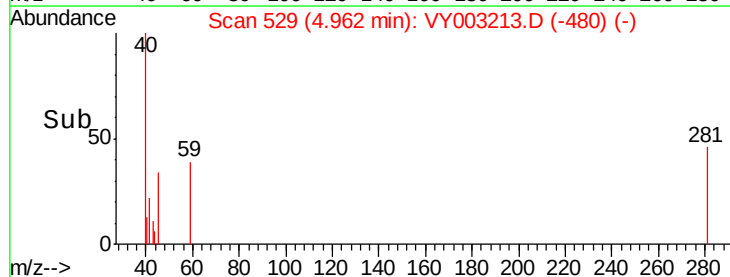
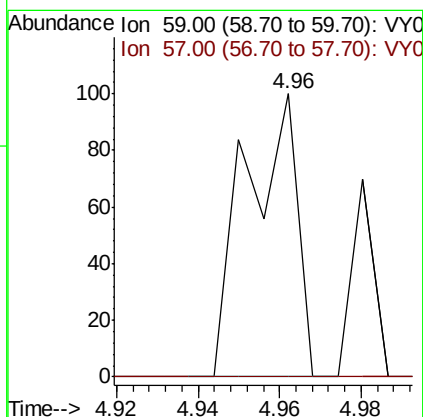
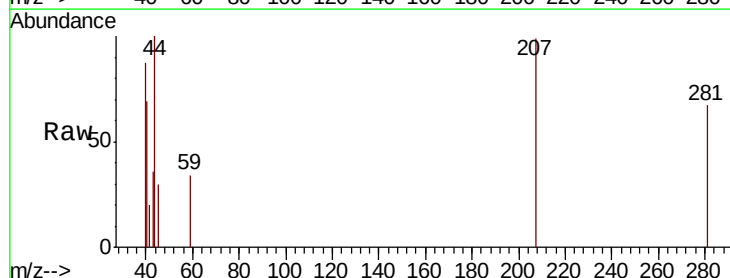
Instrument :
MSVOA_Y
ClientSampled :
3

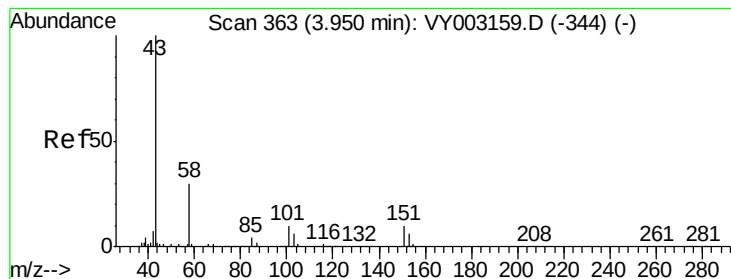
Tot Ion:142 Resp: 2194
Ion Ratio Lower Upper
142 100
127 41.2 33.5 50.3
141 16.0 11.2 16.8



#11
Tert butyl alcohol
Concen: 6.665 ug/l
RT: 4.96 min Scan# 529
Delta R.T. -0.00 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Tgt Ion: 59 Resp: 88
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 26.838 ug/l

RT: 3.94 min Scan# 362

Delta R.T. -0.01 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampleId :

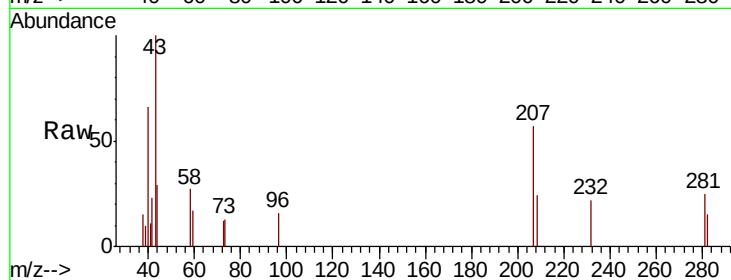
3

Tot Ion: 43 Resp: 732

Ion Ratio Lower Upper

43 100

58 26.8 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

600

500

400

300

200

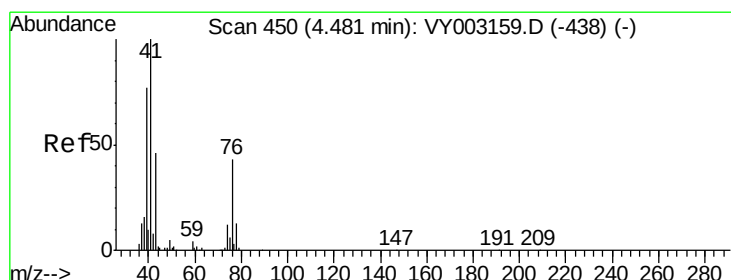
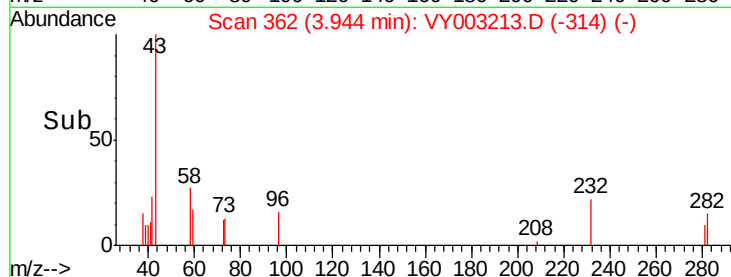
100

0

3.94

3.95

Time-->



#18

Methyl Acetate

Concen: 1.043 ug/l

RT: 4.49 min Scan# 451

Delta R.T. 0.01 min

Lab File: VY003213.D

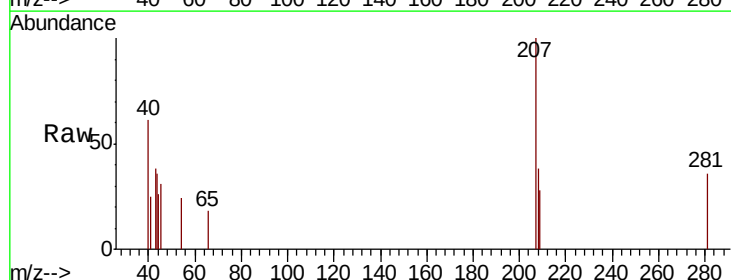
Acq: 16 Jul 2020 16:42

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

100

50

0

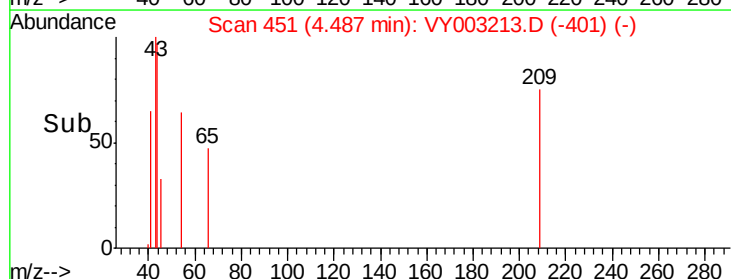
4.49

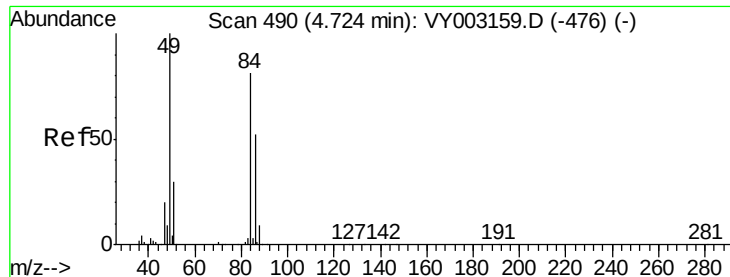
4.46

4.48

4.50

Time-->

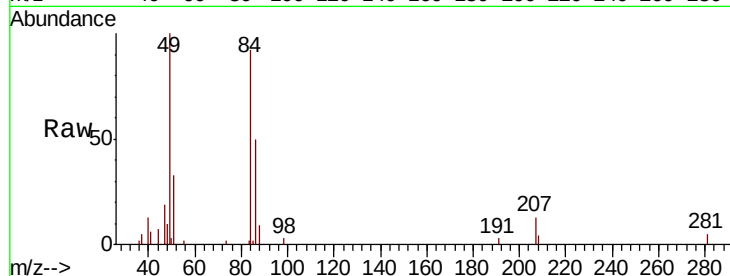




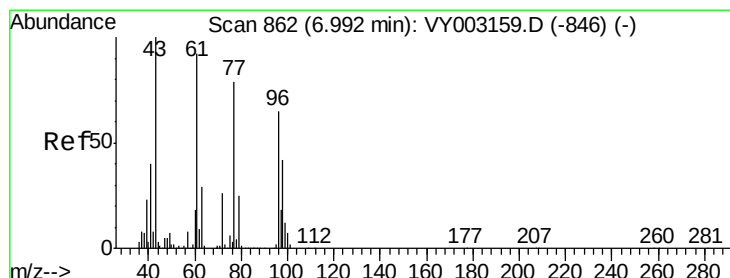
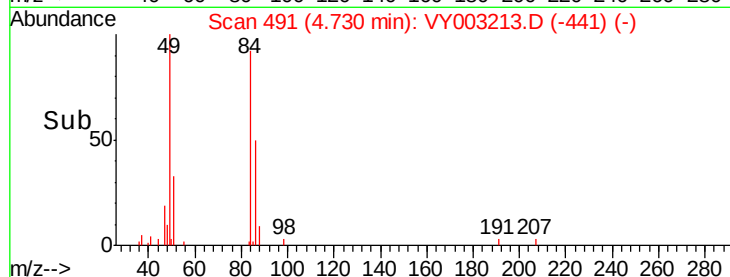
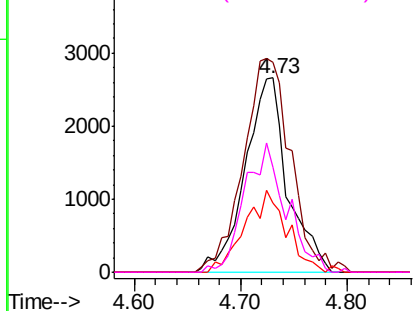
#20
Methylene Chloride
Concen: 54.637 ug/l
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Instrument :
MSVOA_Y
ClientSampleId :
3

Tot Ion:	84	Resp:	7428
Ion	Ratio	Lower	Upper
84	100		
49	108.2	98.2	147.4
51	35.9	29.8	44.6
86	54.2	51.2	76.8

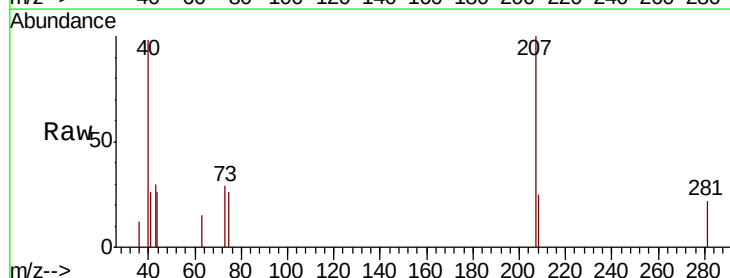


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

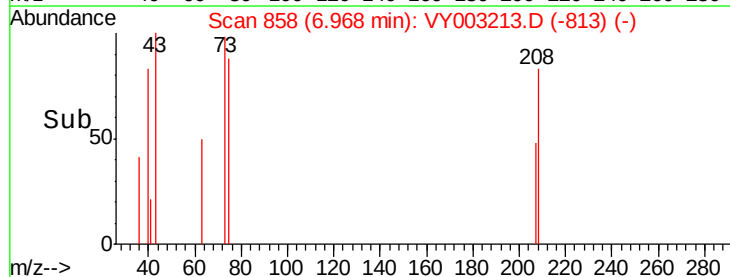
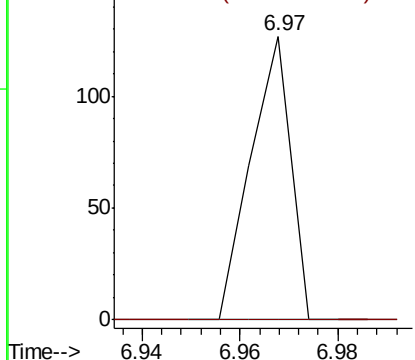


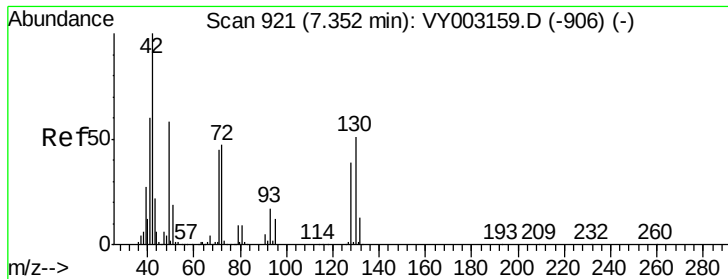
#25
2-Butanone
Concen: 1.608 ug/l
RT: 6.97 min Scan# 858
Delta R.T. -0.02 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Tgt Ion:	43	Resp:	72
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 72.00 (71.70 to 72.70): VY0





#29

Tetrahydrofuran

Concen: 1.861 ug/l

RT: 7.47 min Scan# 941

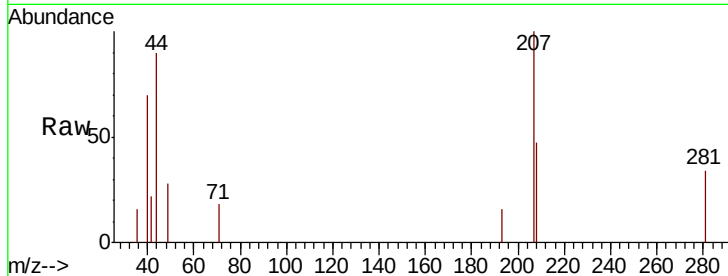
Delta R.T. 0.12 min

Lab File: VY003213.D

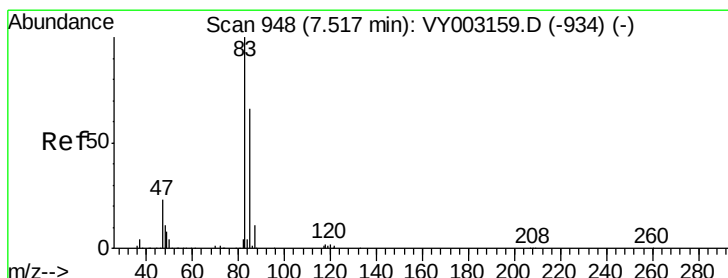
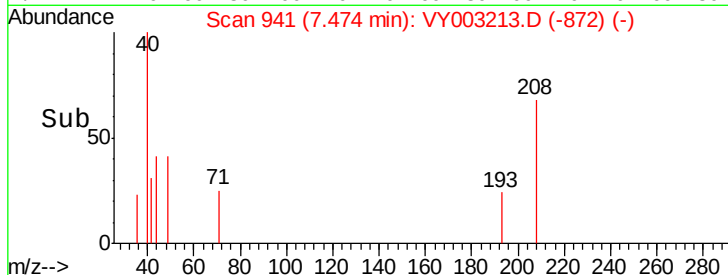
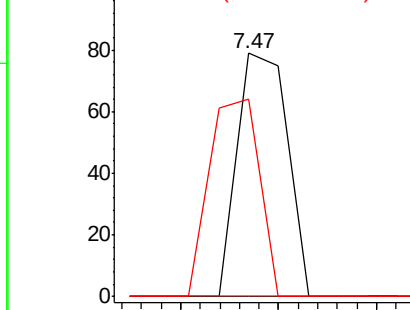
Acq: 16 Jul 2020 16:42

Instrument :
MSVOA_Y
ClientSampled :
3

Tot Ion:	42	Resp:	56
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.7	55.1#
71	82.1	34.2	51.4#



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



#30

Chloroform

Concen: 1.513 ug/l

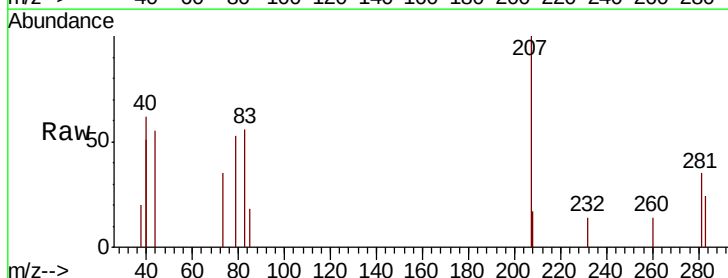
RT: 7.53 min Scan# 950

Delta R.T. 0.01 min

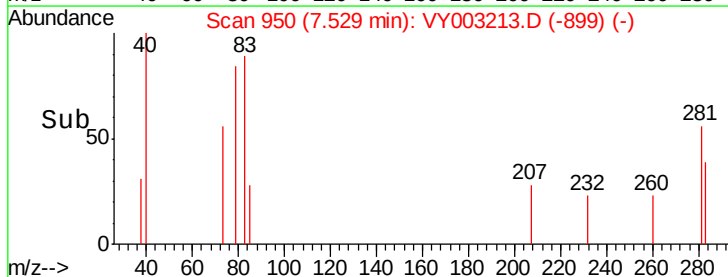
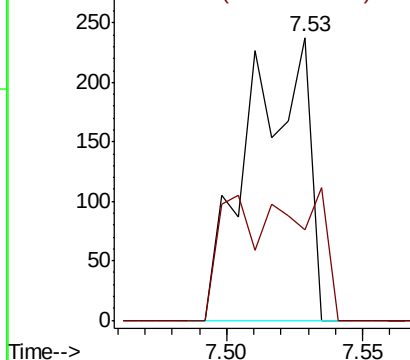
Lab File: VY003213.D

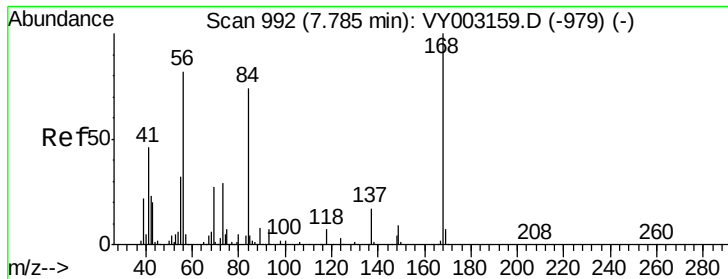
Acq: 16 Jul 2020 16:42

Tgt Ion:	83	Resp:	358
Ion	Ratio	Lower	Upper
83	100		
85	31.9	52.6	78.8#



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0

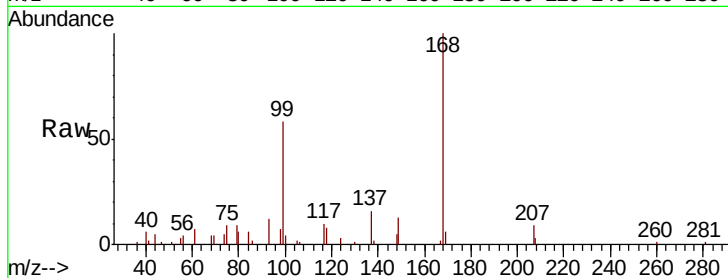




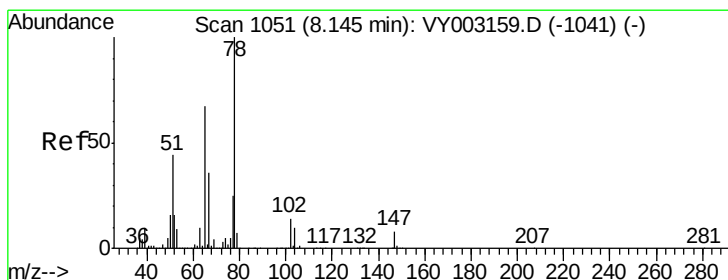
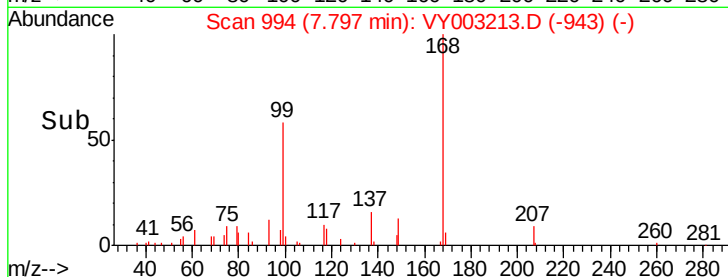
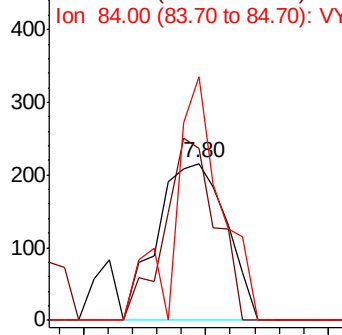
#31
Cyclohexane
Concen: 1.914 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Instrument :
MSVOA_Y
ClientSampled :
3

Tot Ion: 56 Resp: 425
Ion Ratio Lower Upper
56 100
69 109.3 26.7 40.1#
84 155.1 72.3 108.5#

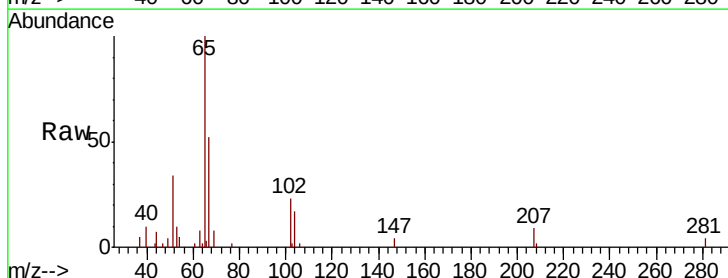


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

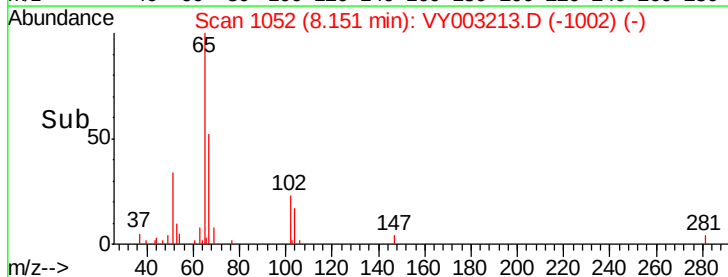
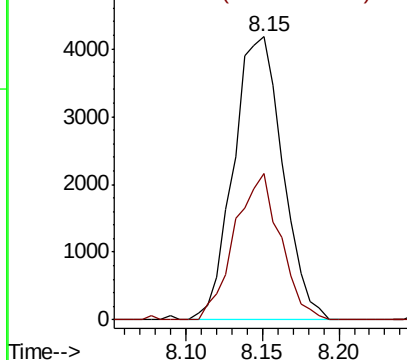


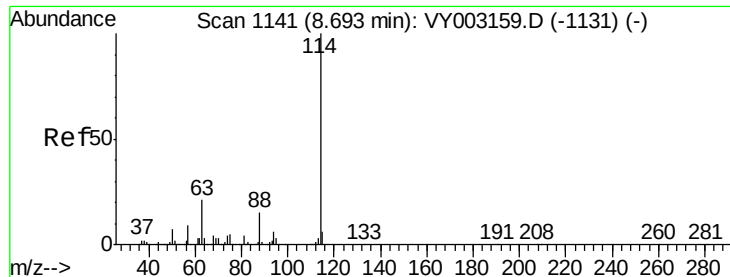
#33
1,2-Dichloroethane-d4
Concen: 76.442 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Tgt Ion: 65 Resp: 9334
Ion Ratio Lower Upper
65 100
67 48.3 0.0 105.2



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: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampled :

3

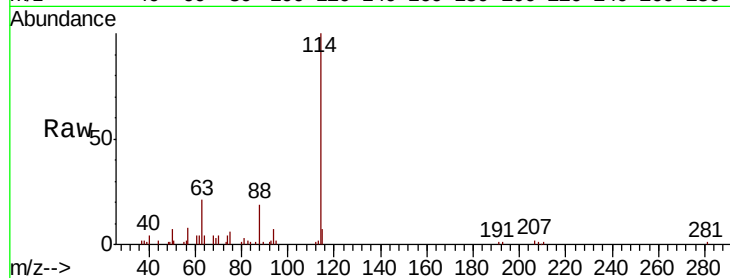
Tot Ion:114 Resp: 22093

Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.2

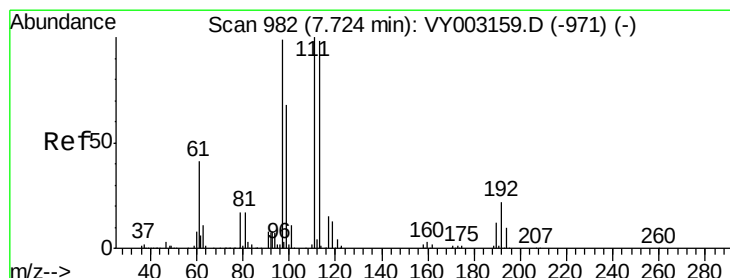
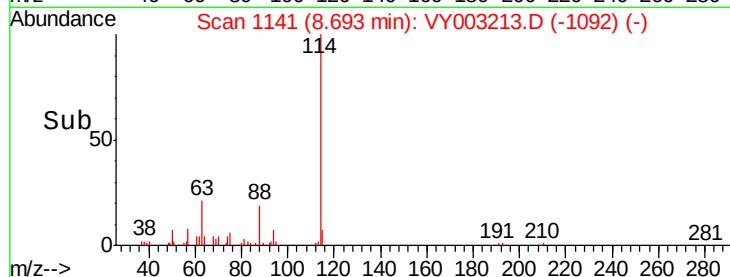
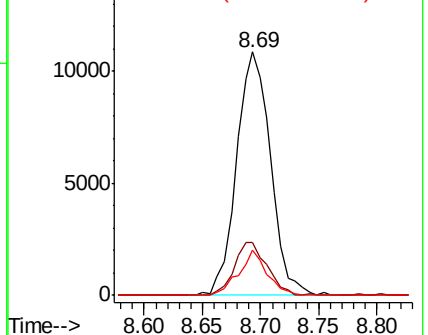
88 18.8 0.0 30.2



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: 54.247 ug/l

RT: 7.72 min Scan# 981

Delta R.T. -0.01 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

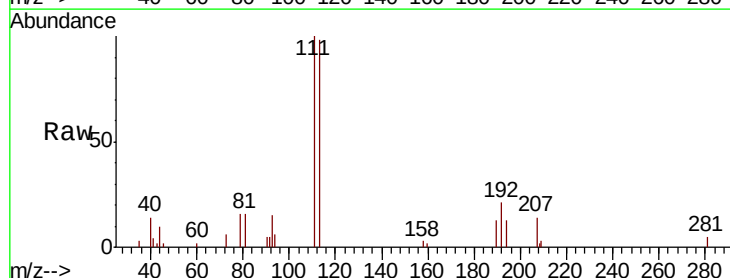
Tgt Ion:113 Resp: 6897

Ion Ratio Lower Upper

113 100

111 105.2 82.1 123.1

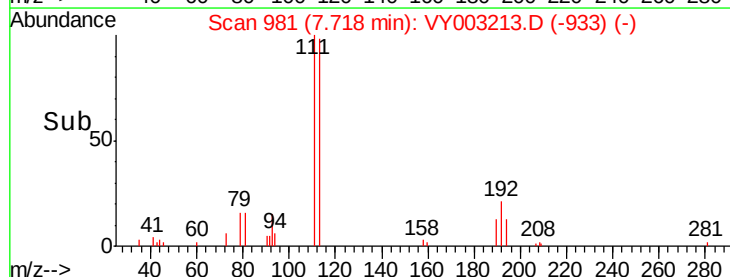
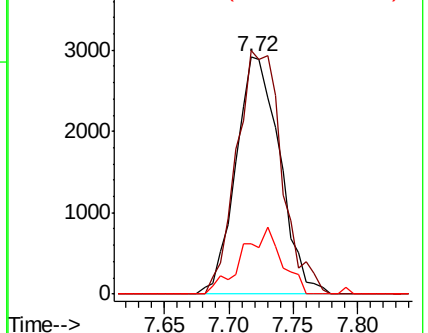
192 25.4 18.8 28.2

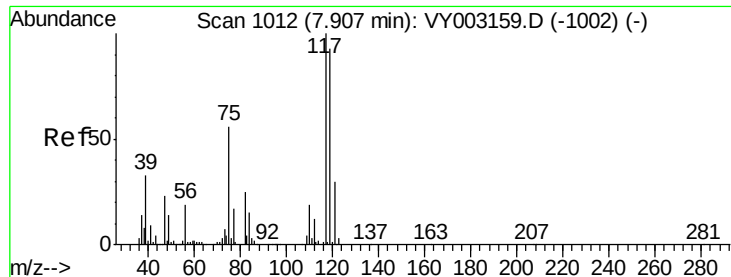


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 7.087 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.10 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampled :

3

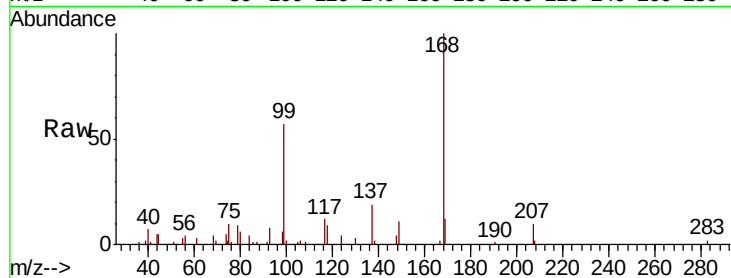
Tot Ion:117 Resp: 1465

Ion Ratio Lower Upper

117 100

119 0.0 74.5 111.7#

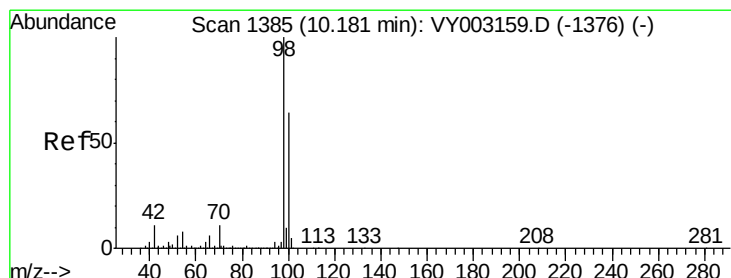
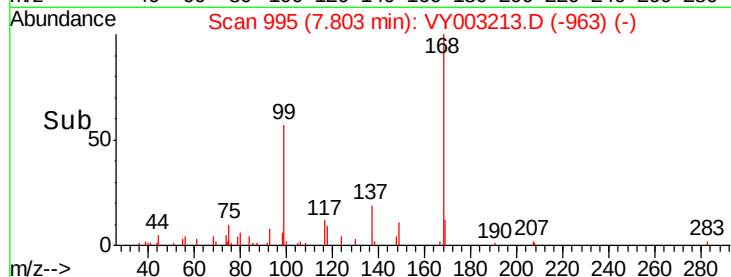
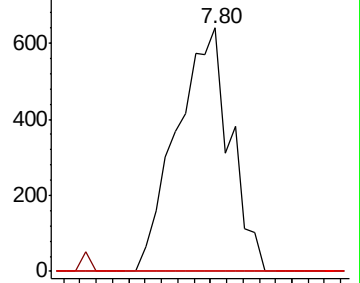
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 53.530 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003213.D

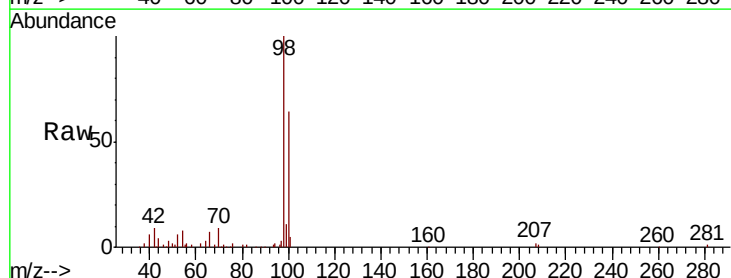
Acq: 16 Jul 2020 16:42

Tgt Ion: 98 Resp: 25303

Ion Ratio Lower Upper

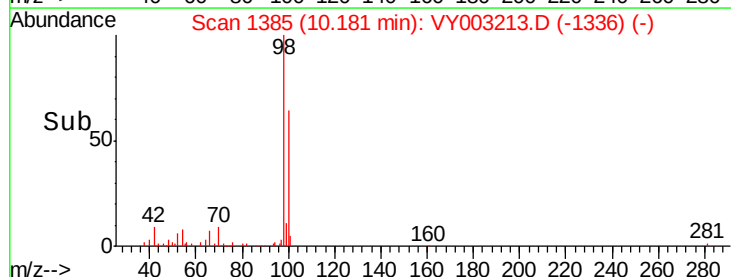
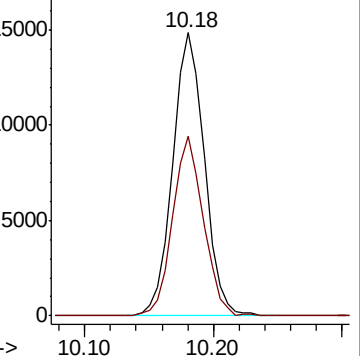
98 100

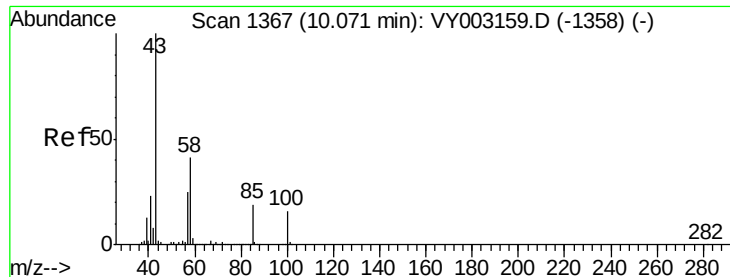
100 61.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

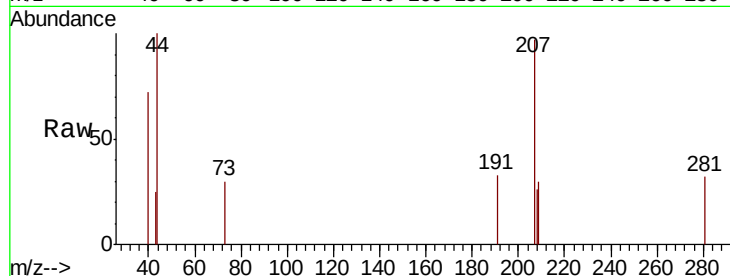




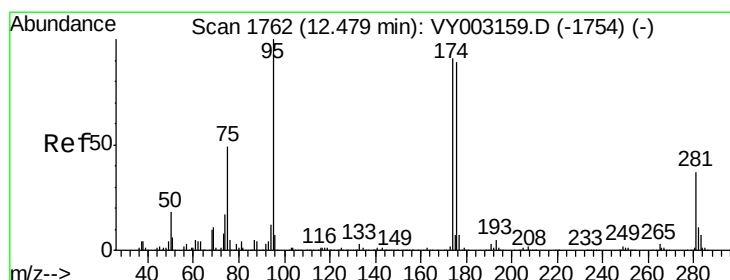
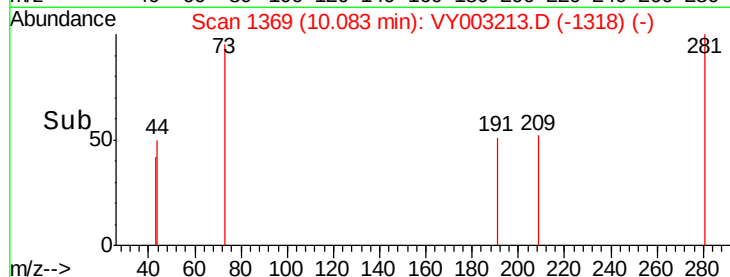
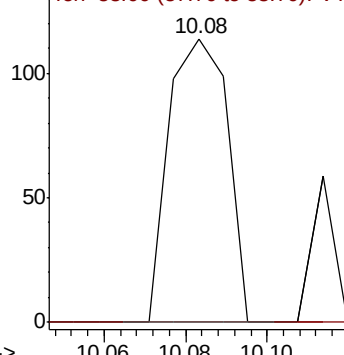
#51
4-Methyl-2-Pentanone
Concen: 1.051 ug/l
RT: 10.08 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Instrument :
MSVOA_Y
ClientSampleId :
3

Tot Ion: 43 Resp: 114
Ion Ratio Lower Upper
43 100
58 0.0 32.7 49.1#

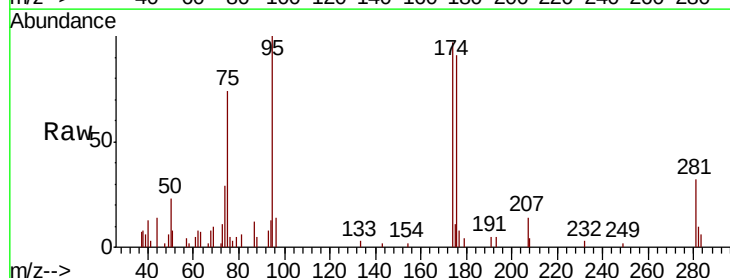


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

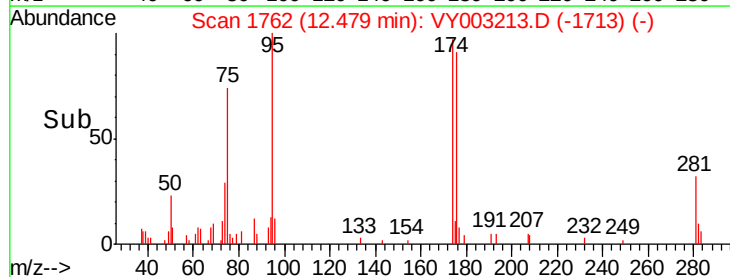
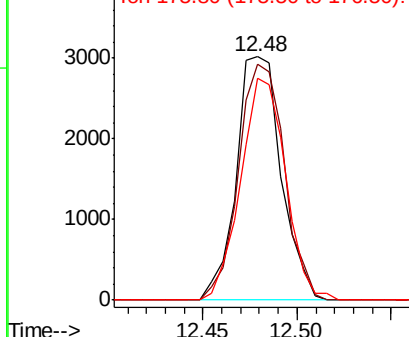


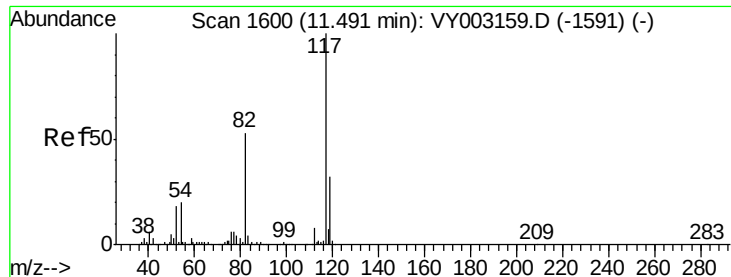
#62
4-Bromofluorobenzene
Concen: 29.269 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY003213.D
Acq: 16 Jul 2020 16:42

Tgt Ion: 95 Resp: 4998
Ion Ratio Lower Upper
95 100
174 98.4 0.0 190.6
176 90.7 0.0 186.4



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. -0.00 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampleId :

3

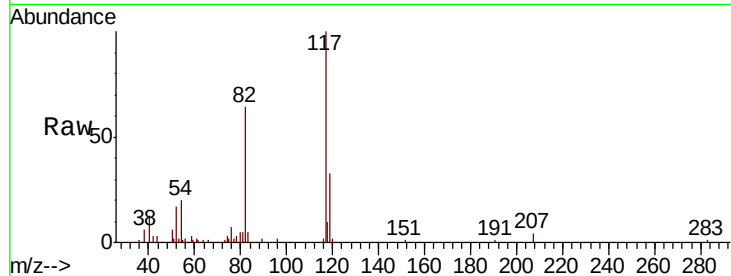
Tot Ion:117 Resp: 15149

Ion Ratio Lower Upper

117 100

82 64.4 42.0 63.0#

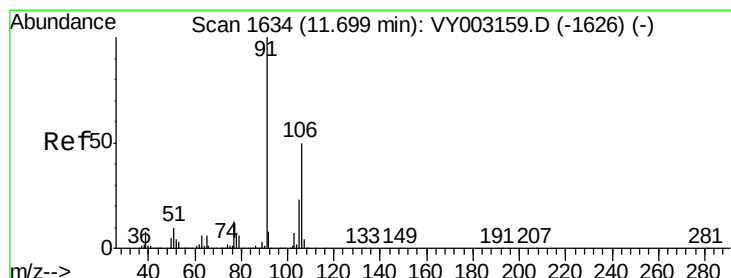
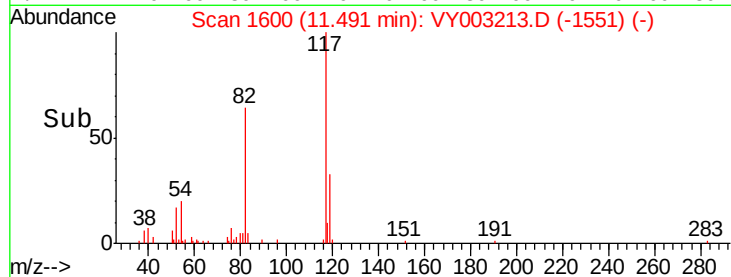
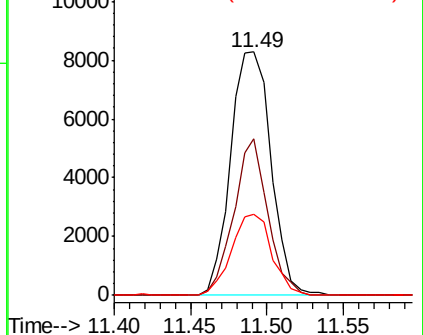
119 33.3 25.5 38.3



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: 1.836 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VY003213.D

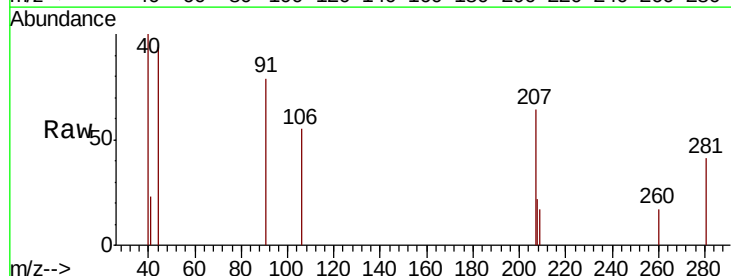
Acq: 16 Jul 2020 16:42

Tgt Ion:106 Resp: 363

Ion Ratio Lower Upper

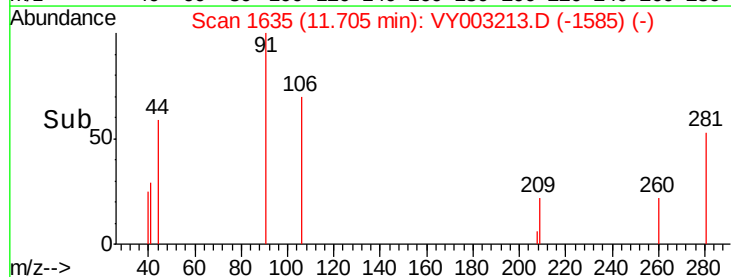
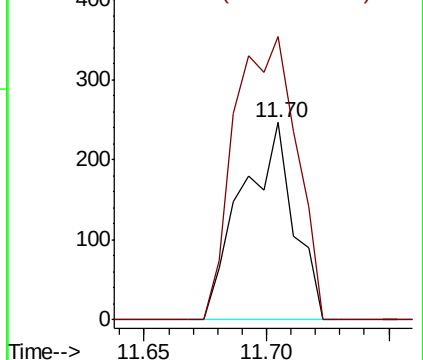
106 100

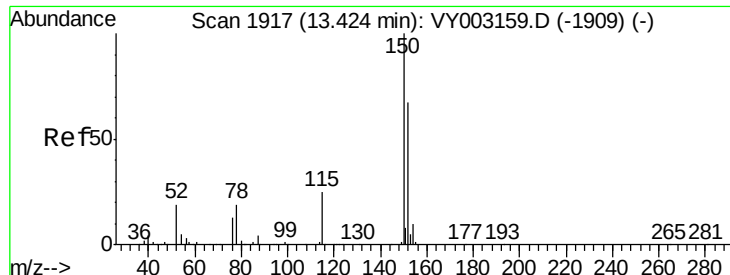
91 171.1 159.0 238.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0

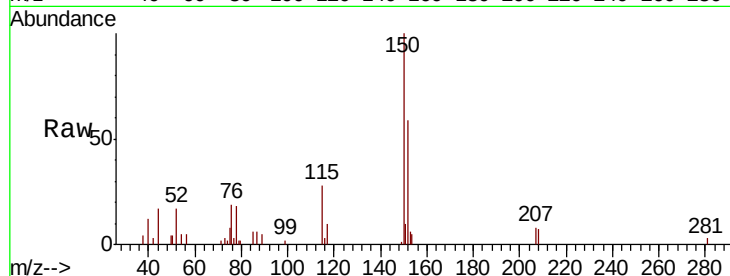




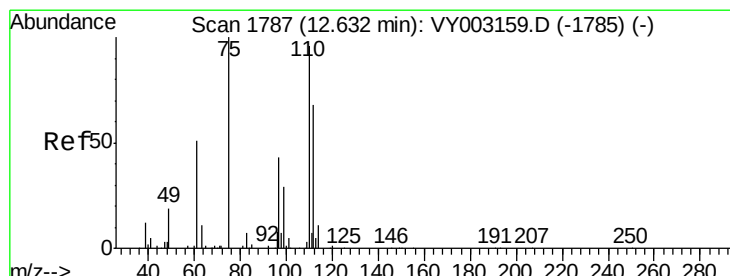
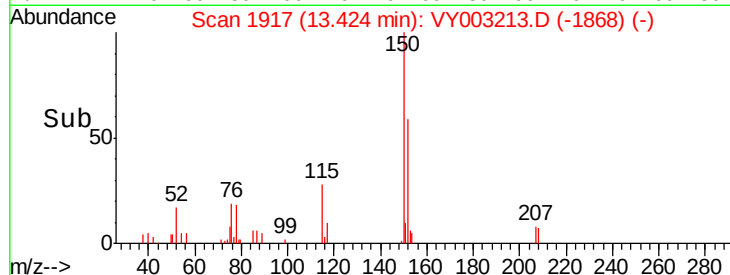
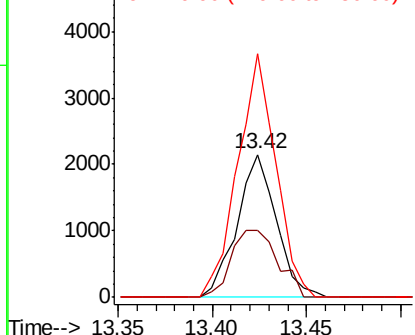
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.42 min Scan# 1917
 Delta R.T. -0.00 min
 Lab File: VY003213.D
 Acq: 16 Jul 2020 16:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 3

Tot Ion:152 Resp: 3115
 Ion Ratio Lower Upper
 152 100
 115 55.4 26.9 80.7
 150 164.9 0.0 338.0

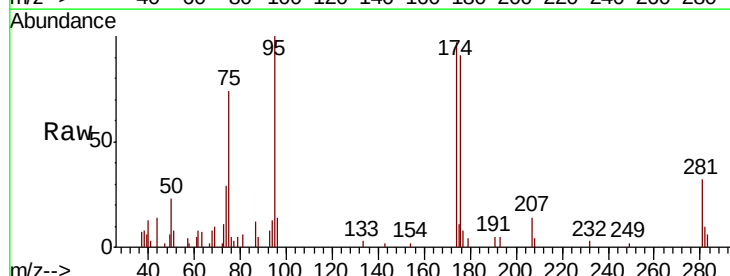


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

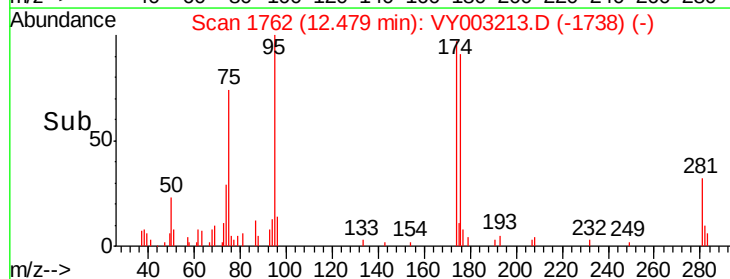
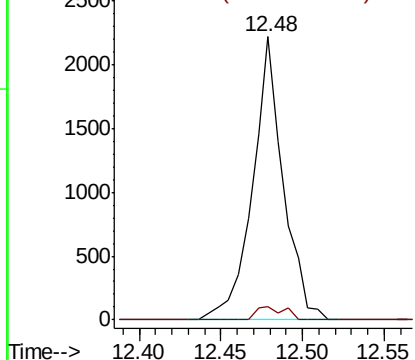


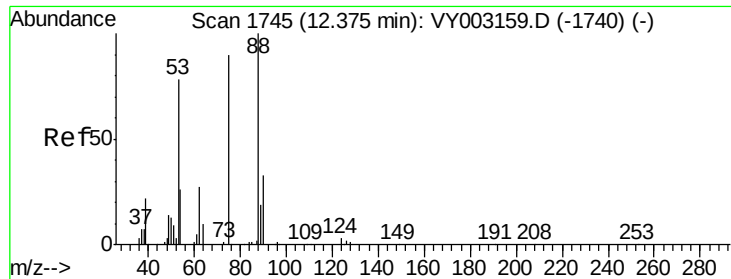
#76
 1,2,3-Trichloropropane
 Concen: 105.393 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.15 min
 Lab File: VY003213.D
 Acq: 16 Jul 2020 16:42

Tgt Ion: 75 Resp: 2906
 Ion Ratio Lower Upper
 75 100
 77 4.2 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: 205.114 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

Instrument :

MSVOA_Y

ClientSampleId :

3

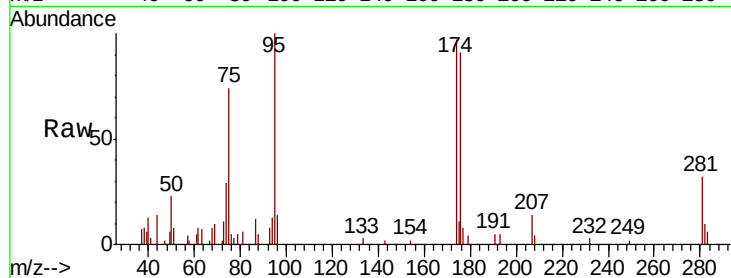
Tot Ion: 75 Resp: 2906

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

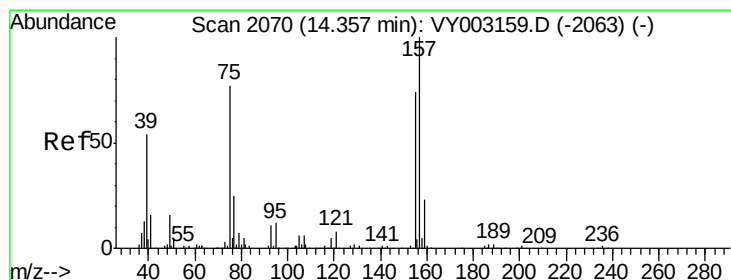
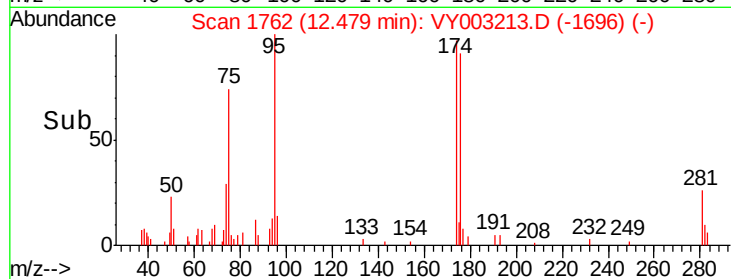
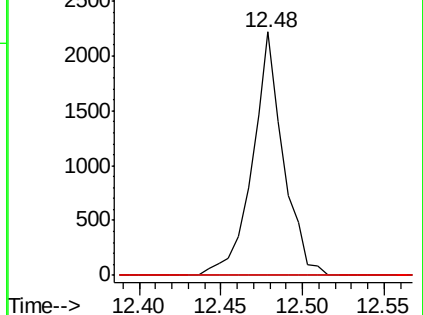
89 0.0 37.3 55.9#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.057 ug/l

RT: 14.34 min Scan# 2068

Delta R.T. -0.01 min

Lab File: VY003213.D

Acq: 16 Jul 2020 16:42

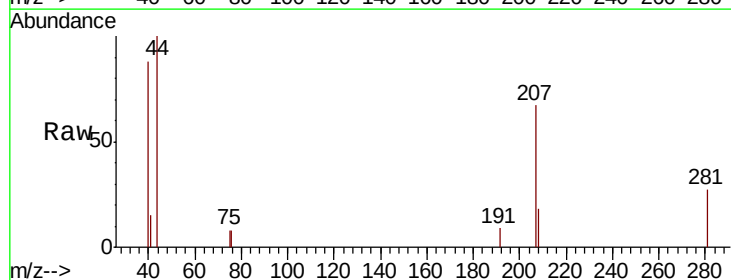
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

155 0.0 48.1 144.3#

157 0.0 61.9 185.6#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

