

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101119\
 Data File : VY000278.D
 Acq On : 11 Oct 2019 18:11
 Operator : SY/MD
 Sample : K5266-06
 Misc : 5.09G/MSVOA Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 14 07:37:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 07:29:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	217211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	394121	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	344386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	153366	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	134173	58.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.12%	
35) Dibromofluoromethane	7.73	113	66253	27.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.74%	
50) Toluene-d8	10.18	98	444319	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.48	95	155001	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	

Target Compounds

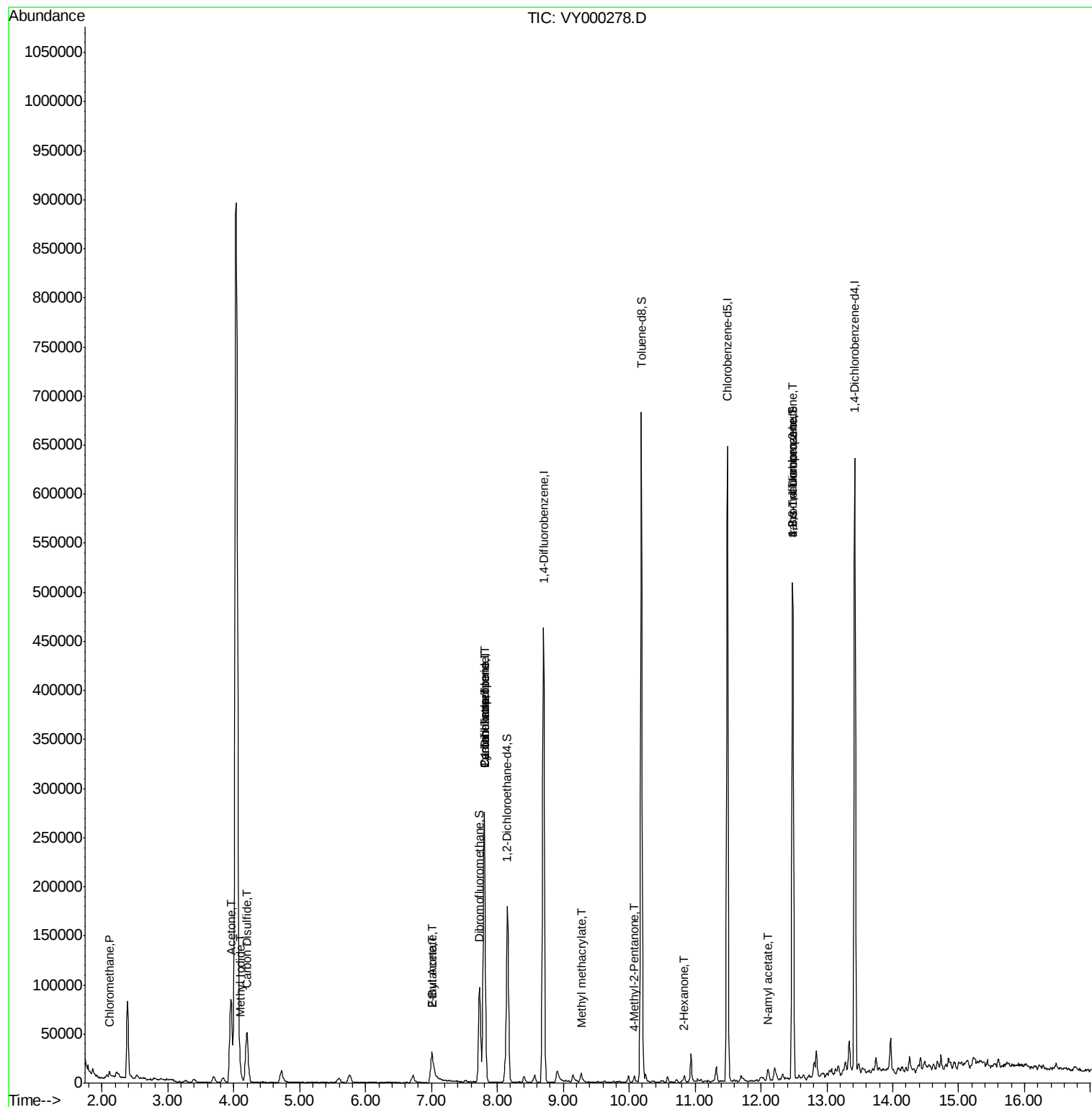
					Qvalue	
2) Dichlorodifluoromethane	1.91	85	237	Below Cal	#	41
3) Chloromethane	2.12	50	5017	1.890	ug/l #	88
5) Bromomethane	2.66	94	277	Below Cal	#	3
10) Methyl Iodide	4.10	142	86	1.212	ug/l #	41
16) Acetone	3.96	43	146816	197.865	ug/l	94
17) Carbon Disulfide	4.20	76	104852	15.180	ug/l	99
20) Methylene Chloride	4.72	84	7700	Below Cal		92
25) 2-Butanone	7.00	43	35914	34.360	ug/l	97
31) Cyclohexane	7.80	56	5122	1.168	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	17170	4.450	ug/l #	49
37) Ethyl Acetate	7.00	43	35914	15.719	ug/l #	71
38) Carbon Tetrachloride	7.80	117	19521	5.225	ug/l #	17
48) Methyl methacrylate	9.28	41	3553	1.866	ug/l #	33
51) 4-Methyl-2-Pentanone	10.08	43	3751	1.674	ug/l	93
59) 2-Hexanone	10.83	43	5783	3.677	ug/l	88
74) N-amyl acetate	12.10	43	7236	2.465	ug/l #	47
76) 1,2,3-Trichloropropane	12.48	75	82408	43.697	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	82408	95.608	ug/l #	14

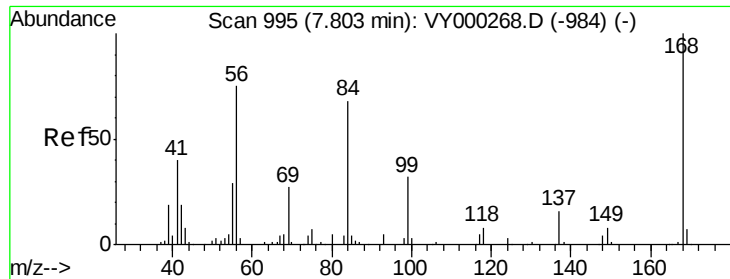
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000278.D

Acq: 11 Oct 2019 18:11

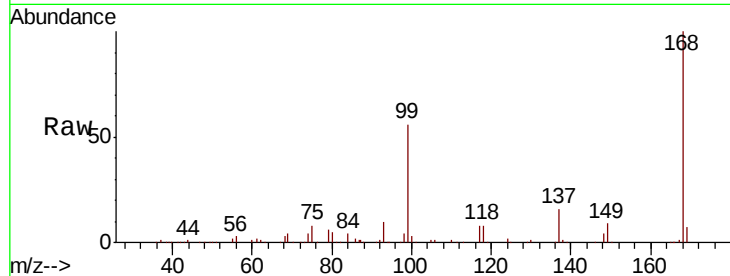
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 217211

Ion Ratio Lower Upper

168 100

99 55.8 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

100000

80000

60000

40000

20000

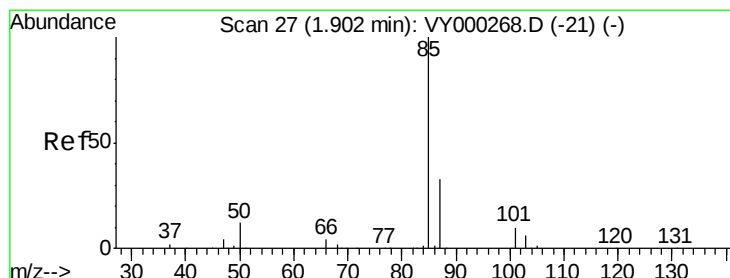
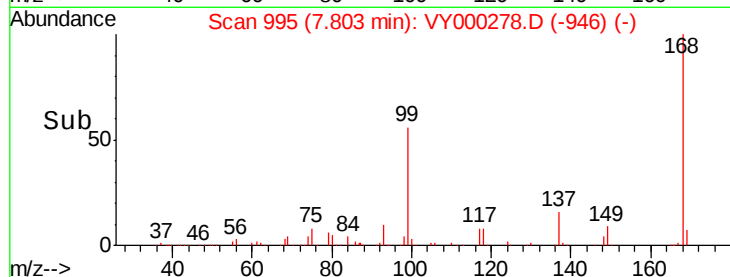
0

Time-->

7.70

7.80

7.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY000278.D

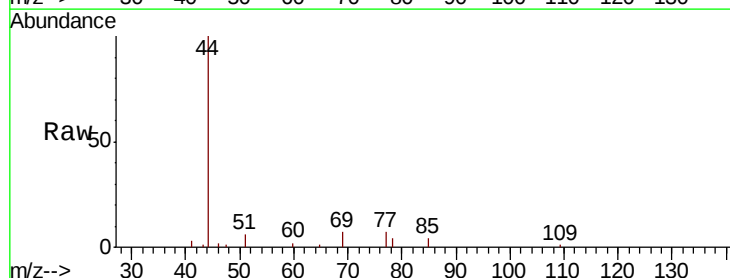
Acq: 11 Oct 2019 18:11

Tgt Ion: 85 Resp: 237

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) (-)

1.91

200

150

100

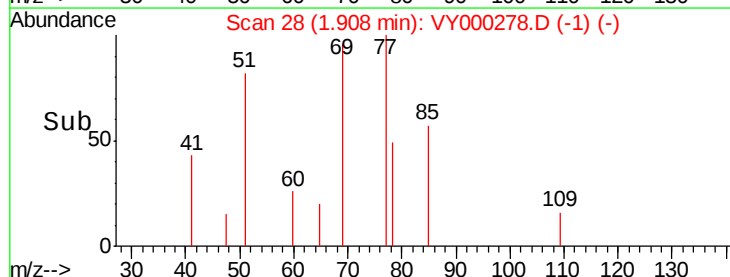
50

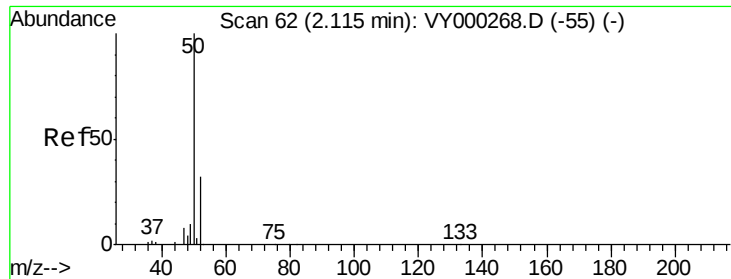
0

Time-->

1.90

1.95





#3

Chloromethane

Concen: 1.890 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY000278.D

Acq: 11 Oct 2019 18:11

Instrument :

MSVOA_Y

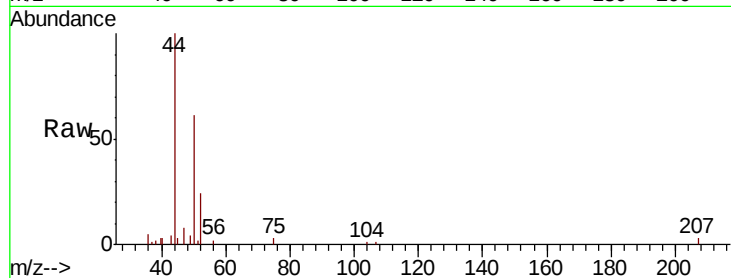
ClientSampleId :

Tot Ion: 50 Resp: 5017

Ion Ratio Lower Upper

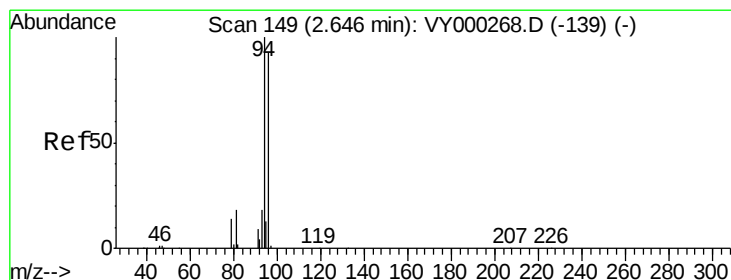
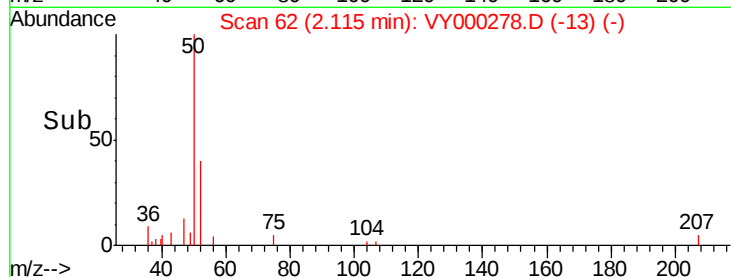
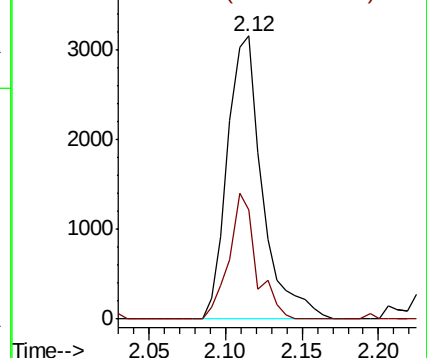
50 100

52 38.4 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#5

Bromomethane

Concen: Below Cal

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000278.D

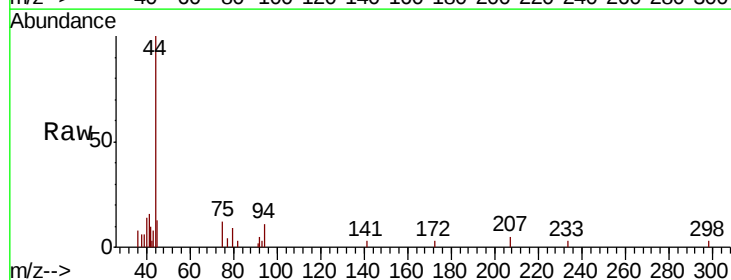
Acq: 11 Oct 2019 18:11

Tgt Ion: 94 Resp: 277

Ion Ratio Lower Upper

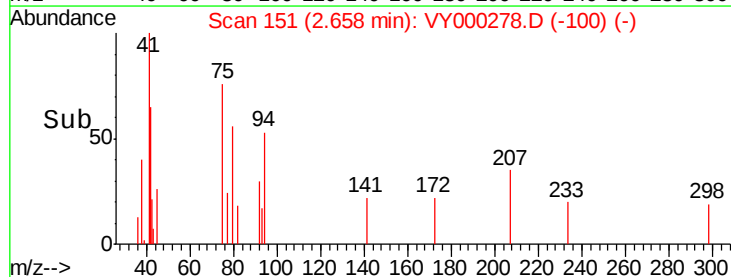
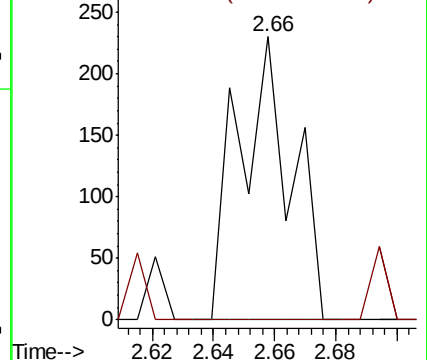
94 100

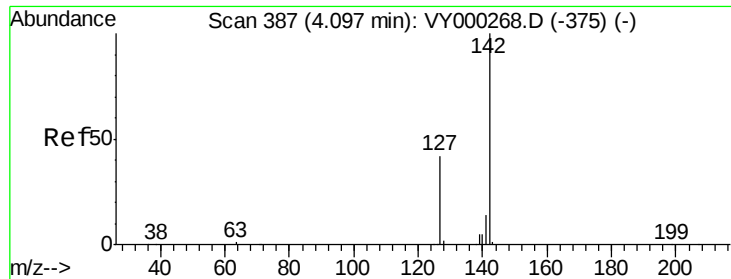
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

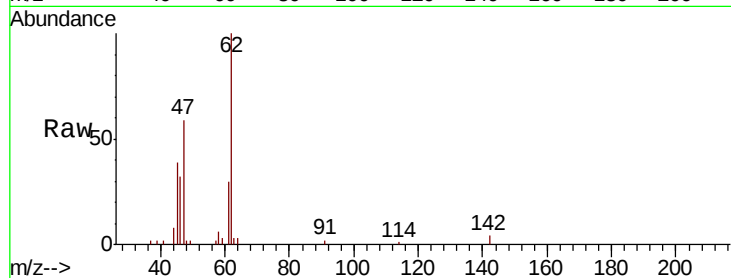




#10
Methvl Iodide
Concen: 1.212 ug/l
RT: 4.10 min Scan# 388
Delta R.T. 0.01 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

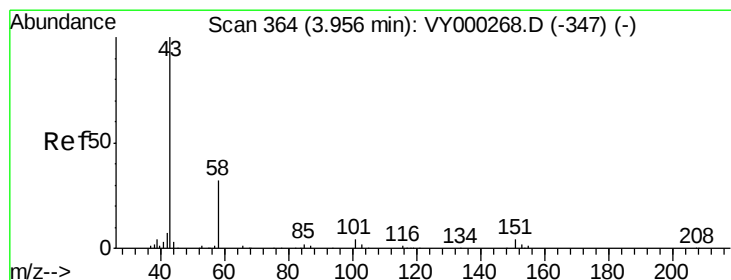
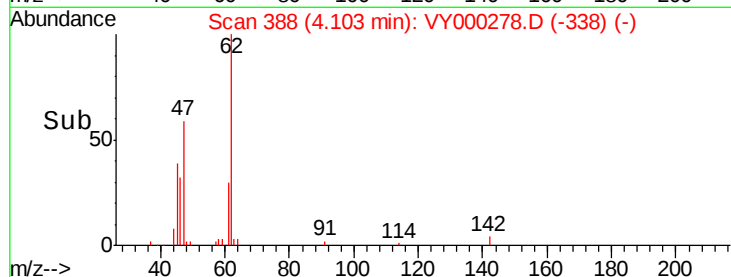
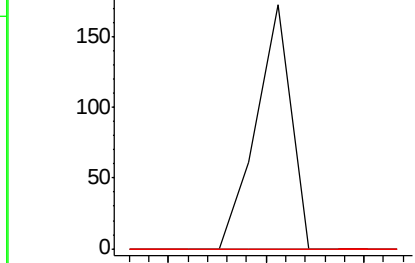
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.9	50.9#
141	0.0	11.2	16.8#



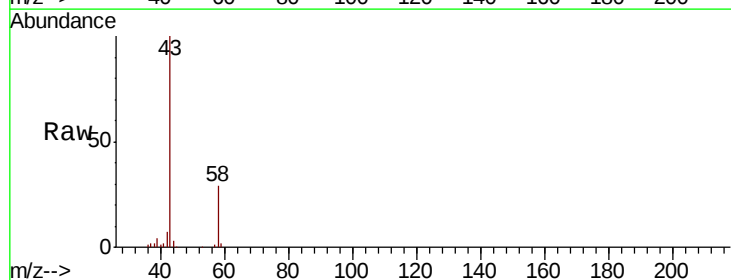
Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

4.10



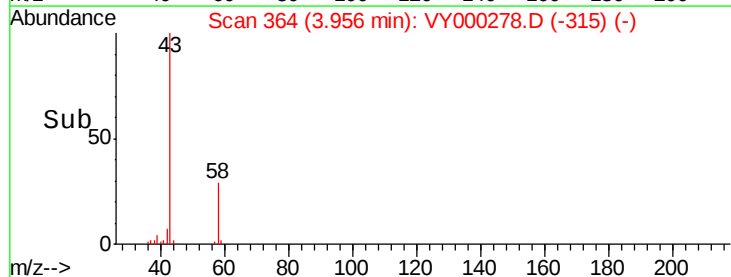
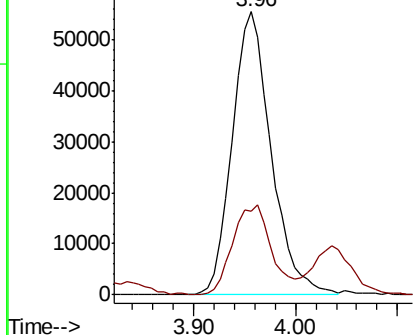
#16
Acetone
Concen: 197.865 ug/l
RT: 3.96 min Scan# 364
Delta R.T. -0.00 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

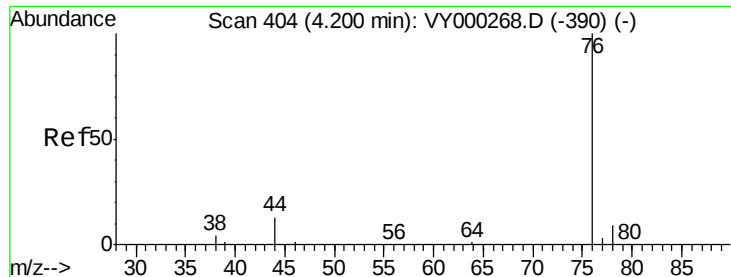
Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.0	25.8	38.6



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

3.96





#17

Carbon Disulfide

Concen: 15.180 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY000278.D

Acq: 11 Oct 2019 18:11

Instrument :

MSVOA_Y

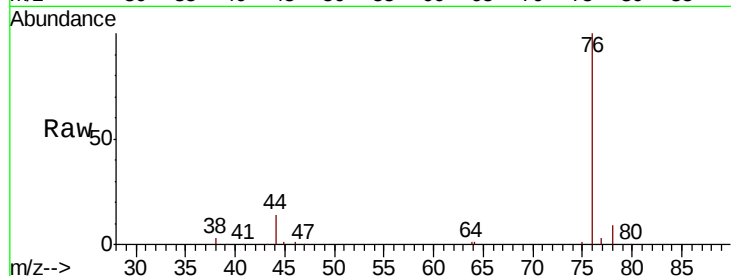
ClientSampleId :

Tot Ion: 76 Resp: 104852

Ion Ratio Lower Upper

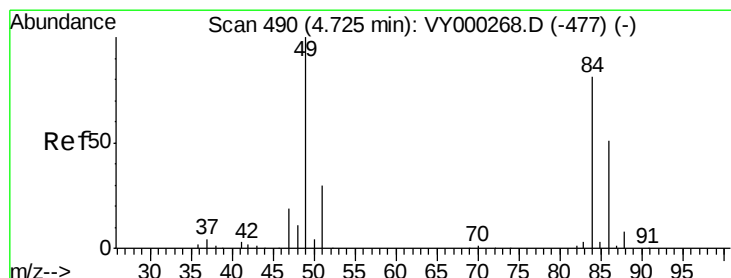
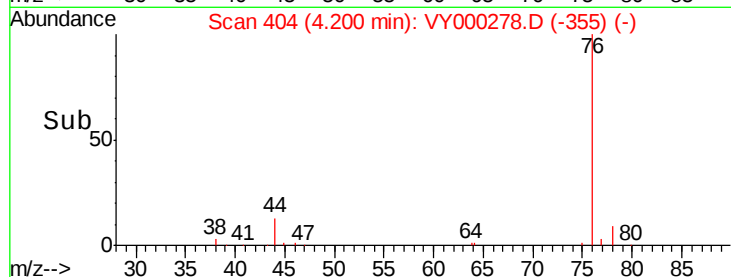
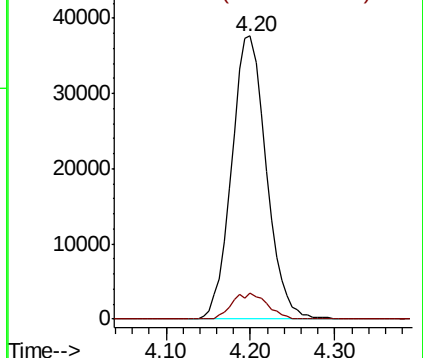
76 100

78 9.2 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: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000278.D

Acq: 11 Oct 2019 18:11

Tgt Ion: 84 Resp: 7700

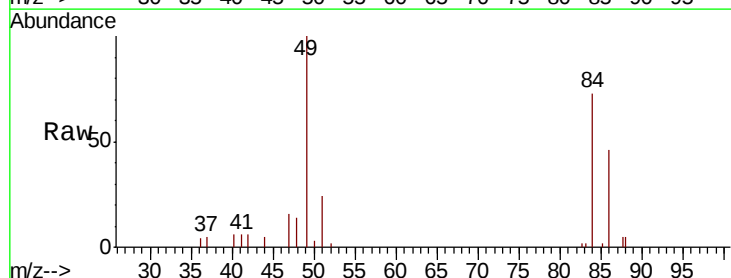
Ion Ratio Lower Upper

84 100

49 137.8 99.0 148.4

51 32.5 29.3 43.9

86 63.8 50.2 75.4

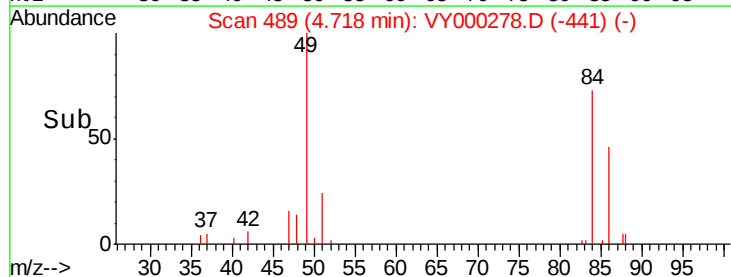
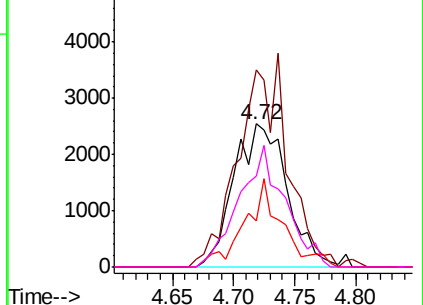


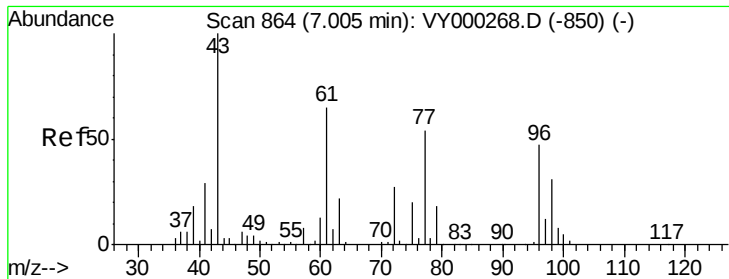
Abundance Ion 83.90 (83.60 to 84.60): VY0

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: 34.360 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY000278.D

Acq: 11 Oct 2019 18:11

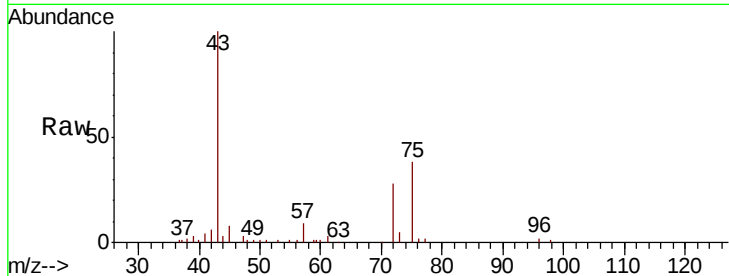
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 35914

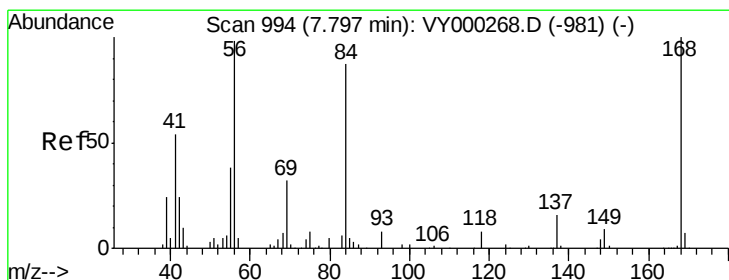
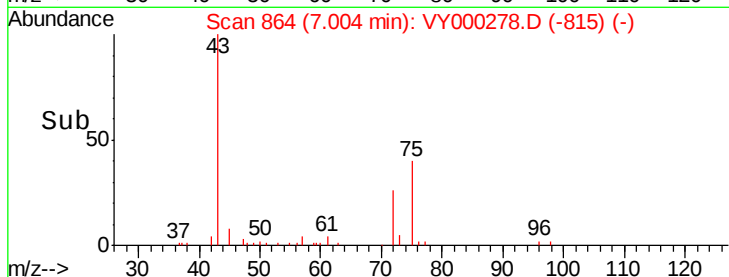
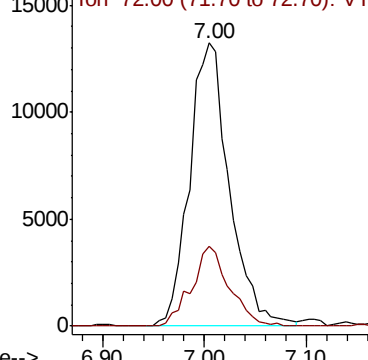
Ion Ratio Lower Upper

43 100

72 28.4 21.4 32.2



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



#31

Cyclohexane

Concen: 1.168 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY000278.D

Acq: 11 Oct 2019 18:11

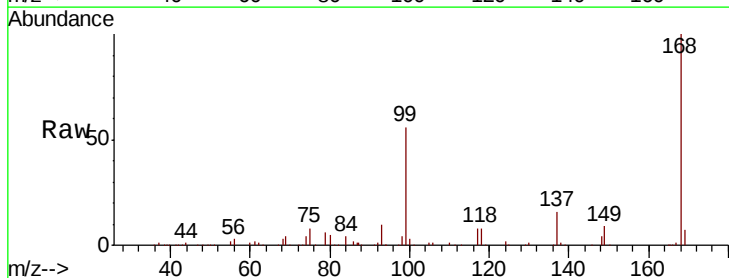
Tgt Ion: 56 Resp: 5122

Ion Ratio Lower Upper

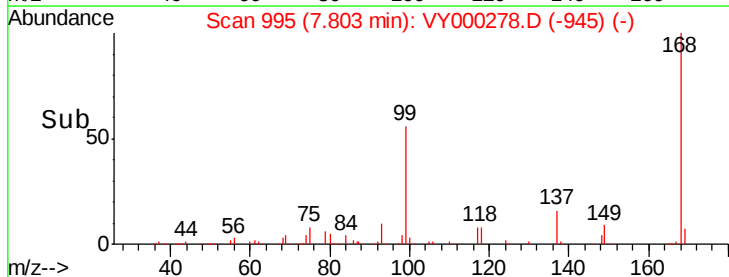
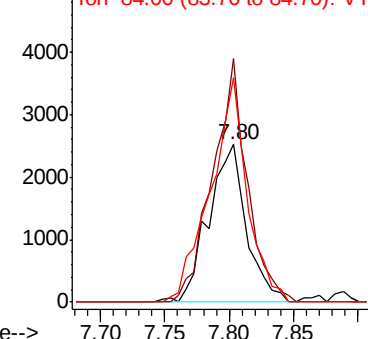
56 100

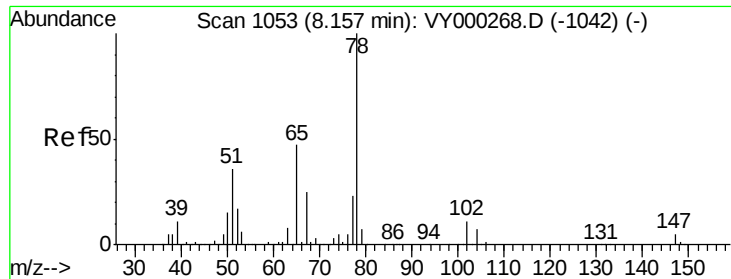
69 154.4 26.3 39.5#

84 142.0 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

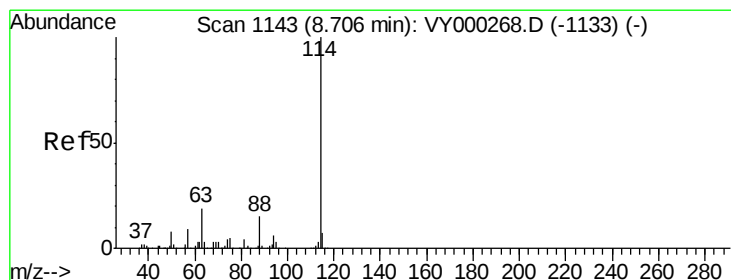
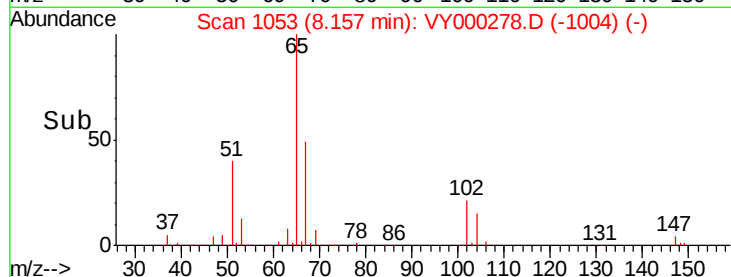
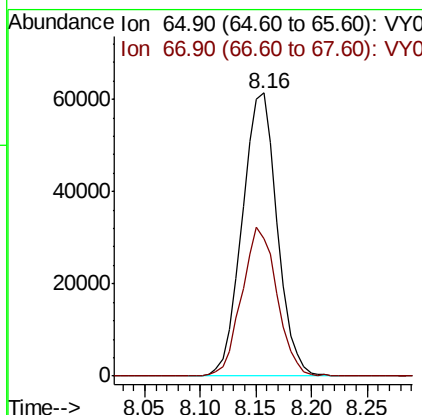
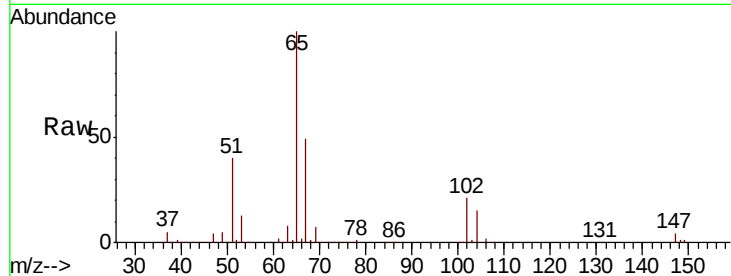




#33
 1,2-Dichloroethane-d4
 Concen: 58.559 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

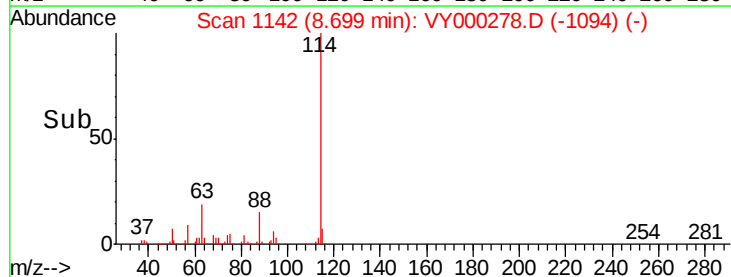
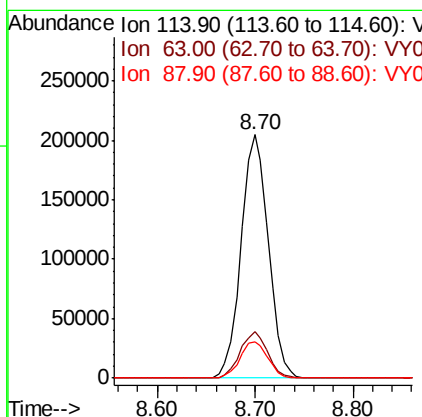
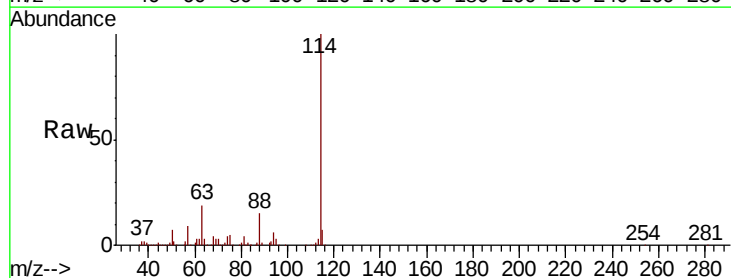
Instrument :
 MSVOA_Y
 ClientSampleId :

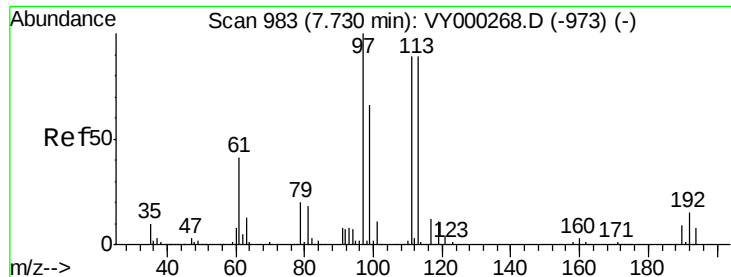
Tot Ion: 65 Resp: 134173
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Tgt Ion: 114 Resp: 394121
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.2
 88 14.6 0.0 30.2

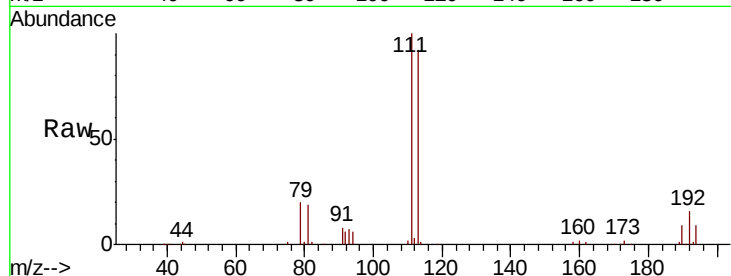




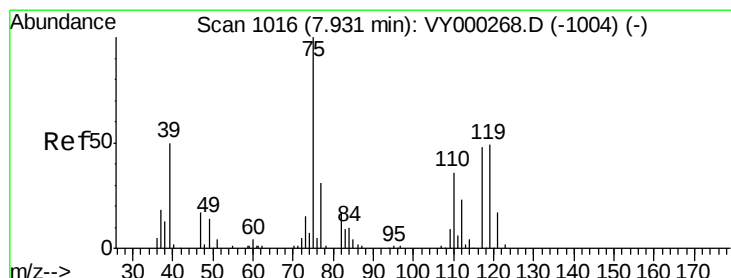
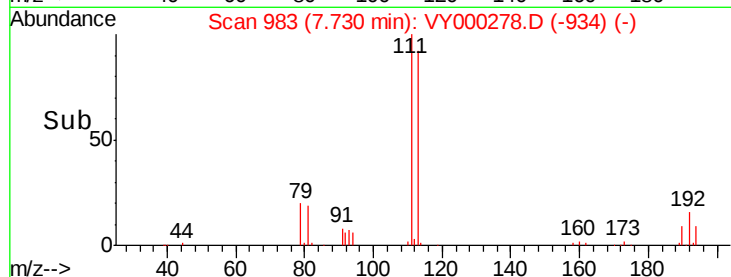
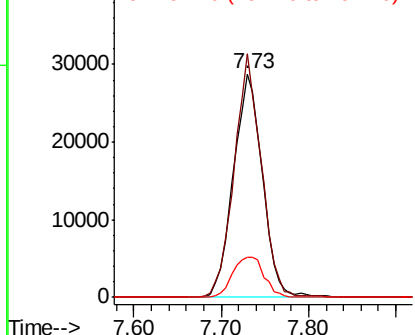
#35
 Dibromofluoromethane
 Concen: 27.868 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:113 Resp: 66253
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.6 122.4
 192 19.4 15.3 22.9

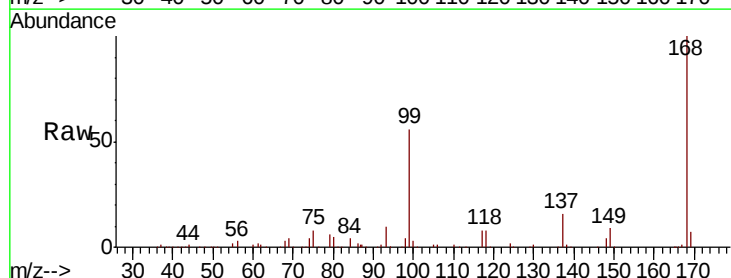


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

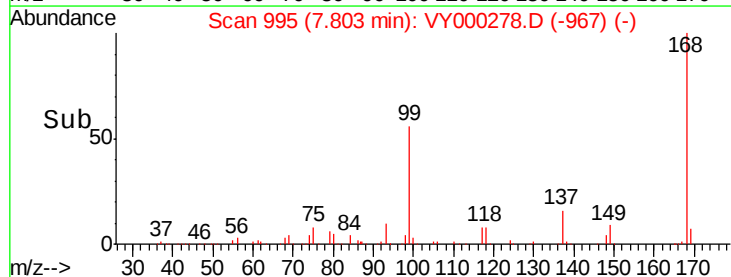
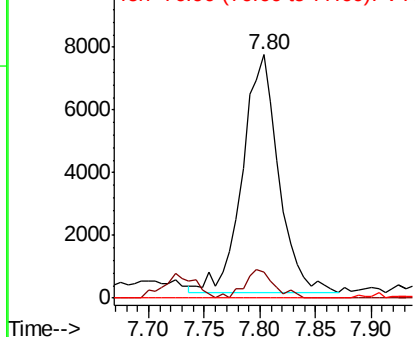


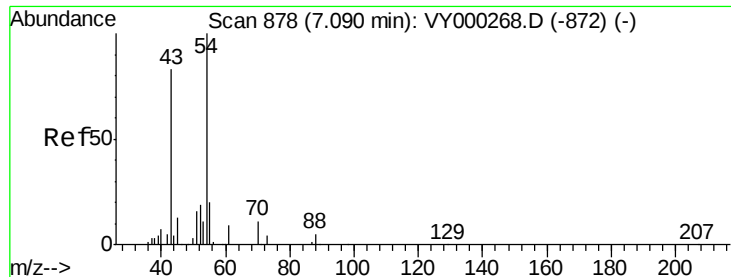
#36
 1,1-Dichloropropene
 Concen: 4.450 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Tgt Ion: 75 Resp: 17170
 Ion Ratio Lower Upper
 75 100
 110 9.7 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

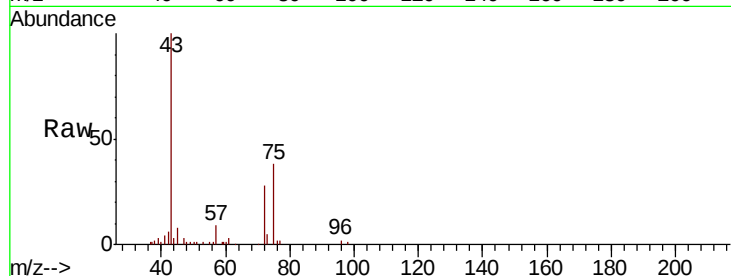




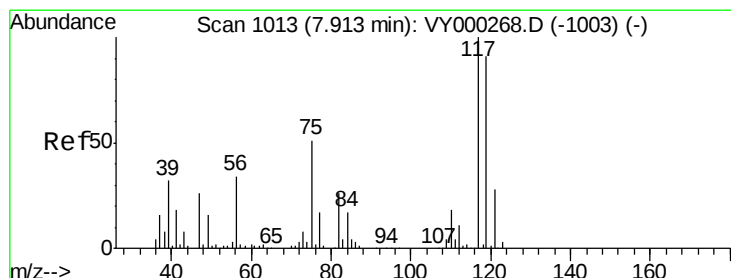
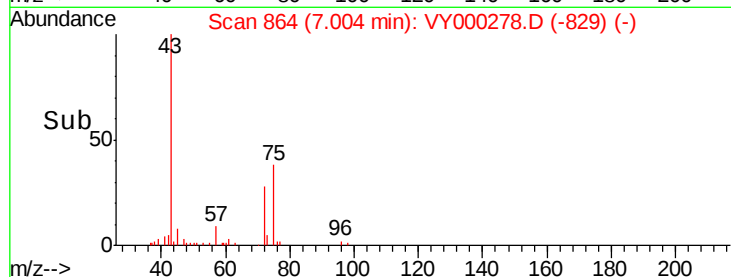
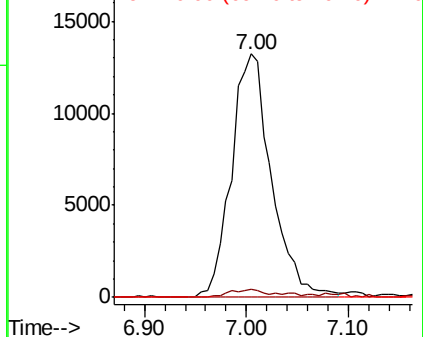
#37
Ethyl Acetate
Concen: 15.719 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.09 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 35914
Ion Ratio Lower Upper
43 100
61 2.7 12.1 18.1#
70 0.1 8.7 13.1#

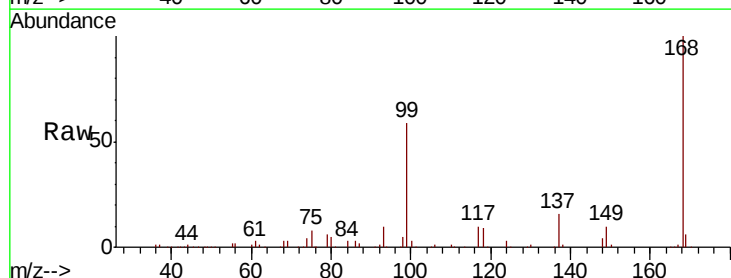


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

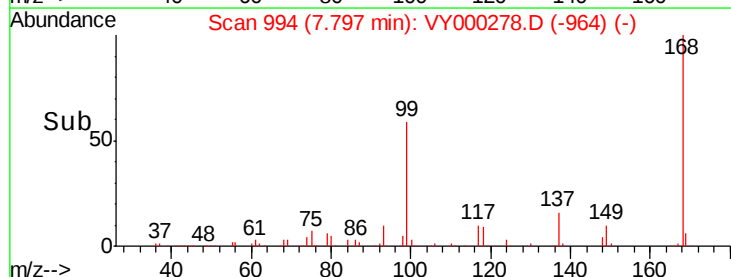
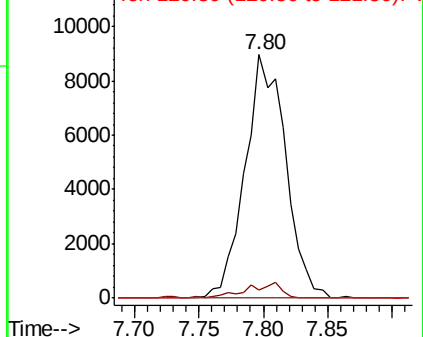


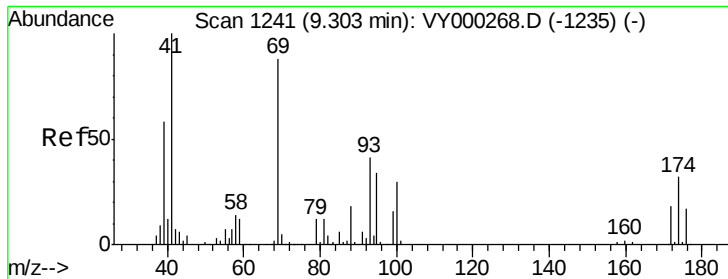
#38
Carbon Tetrachloride
Concen: 5.225 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Tgt Ion: 117 Resp: 19521
Ion Ratio Lower Upper
117 100
119 3.1 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

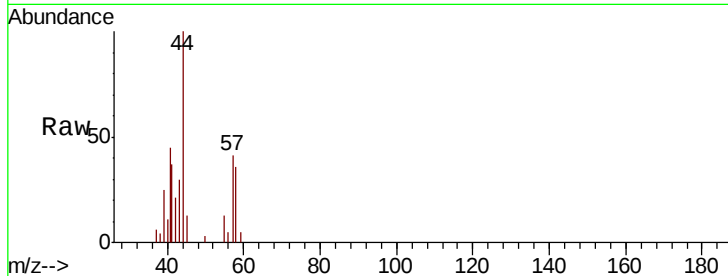




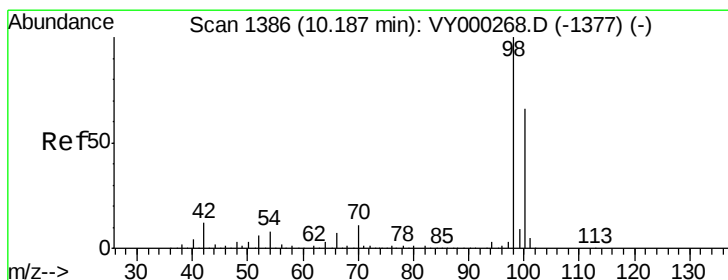
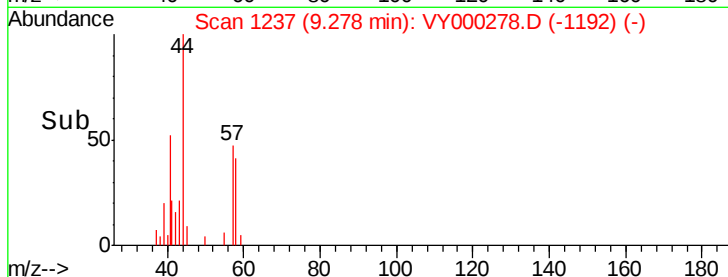
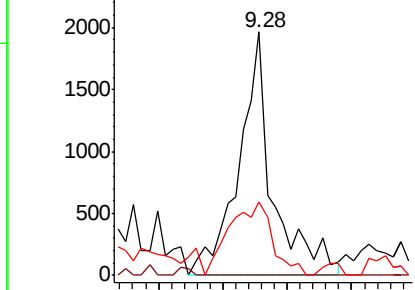
#48
Methvl methacrylate
Concen: 1.866 ug/l
RT: 9.28 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 41 Resp: 3553
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 38.7 47.7 71.5#

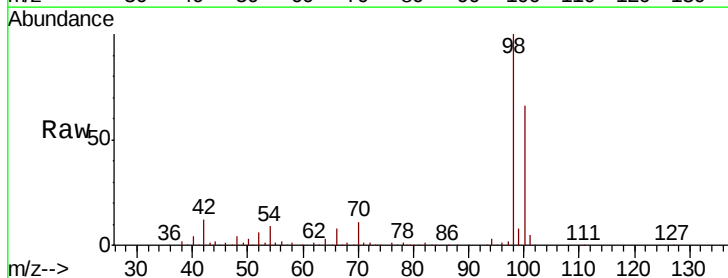


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

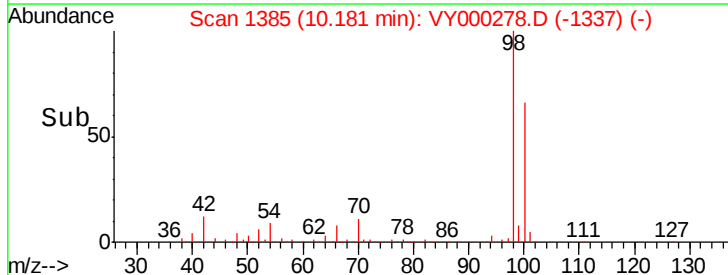
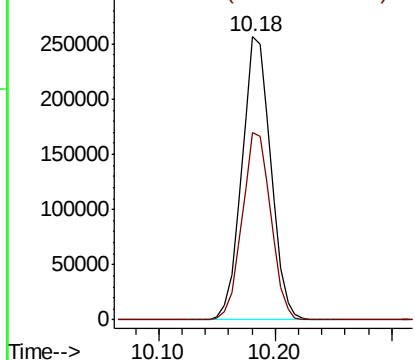


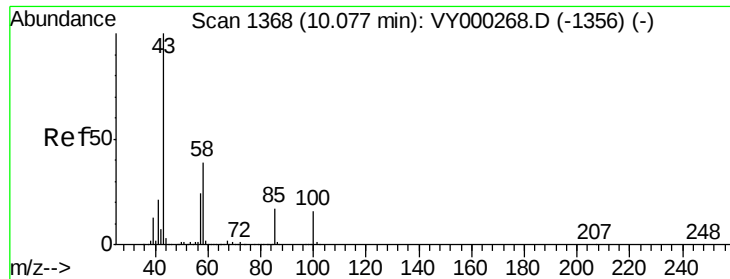
#50
Toluene-d8
Concen: 48.585 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Tgt Ion: 98 Resp: 444319
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



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

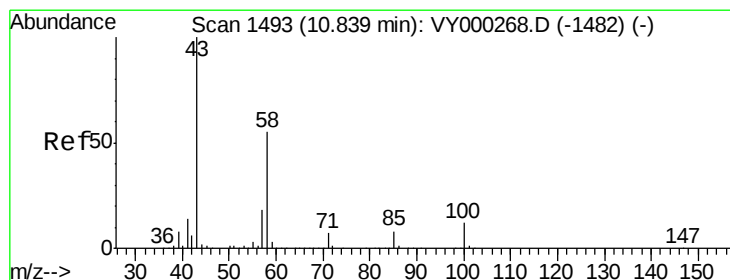
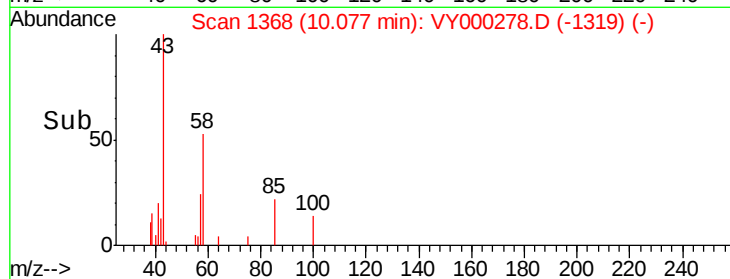
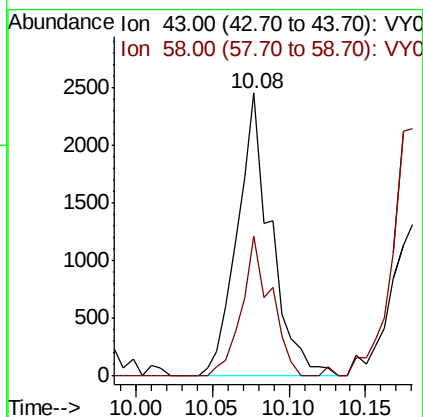
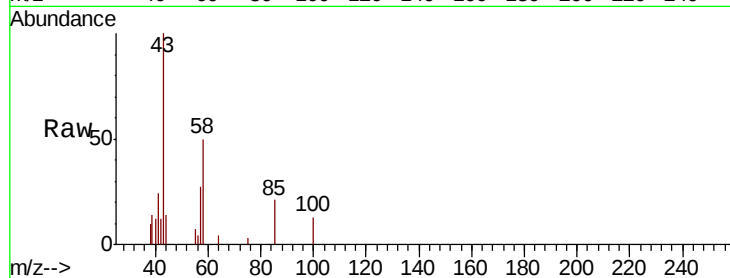




#51
 4-Methyl-2-Pentanone
 Concen: 1.674 ug/l
 RT: 10.08 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

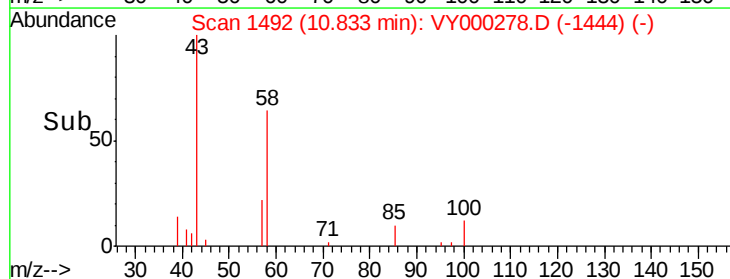
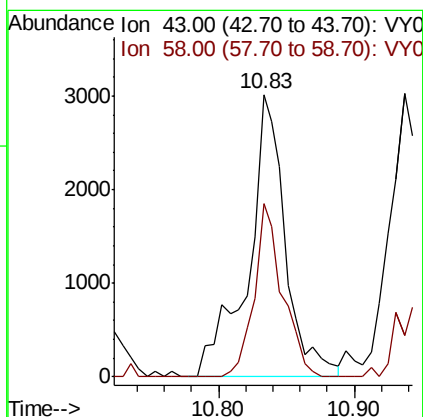
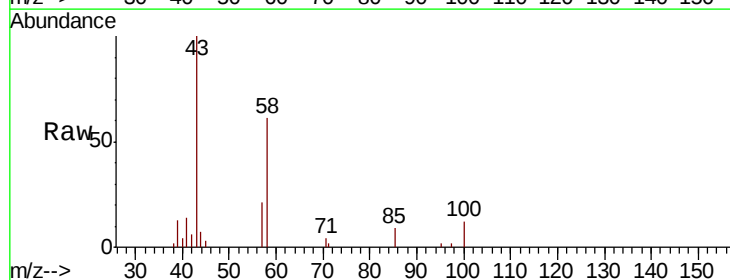
Instrument :
 MSVOA_Y
 ClientSampleId :

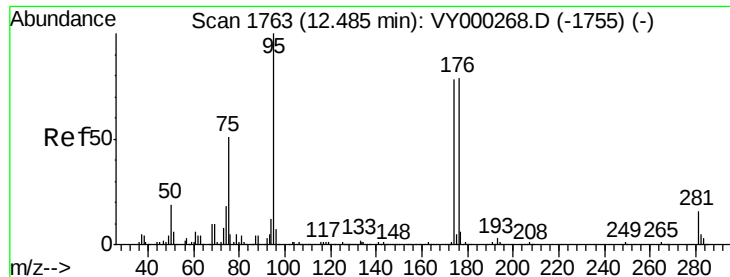
Tot Ion: 43 Resp: 3751
 Ion Ratio Lower Upper
 43 100
 58 43.2 31.0 46.6



#59
 2-Hexanone
 Concen: 3.677 ug/l
 RT: 10.83 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Tgt Ion: 43 Resp: 5783
 Ion Ratio Lower Upper
 43 100
 58 46.8 27.7 83.1

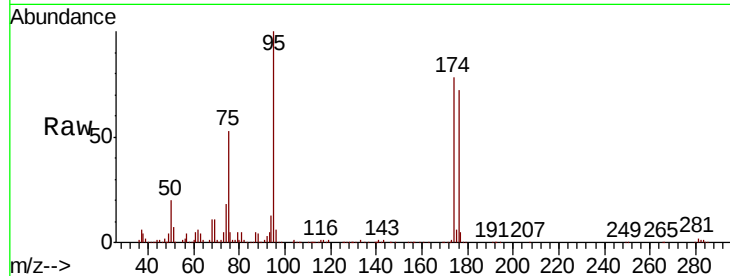




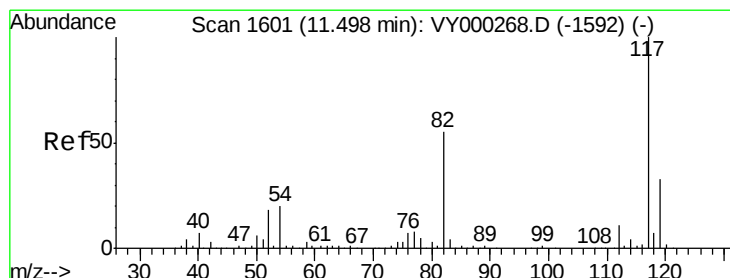
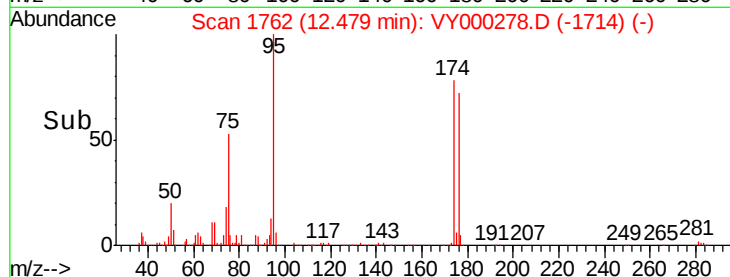
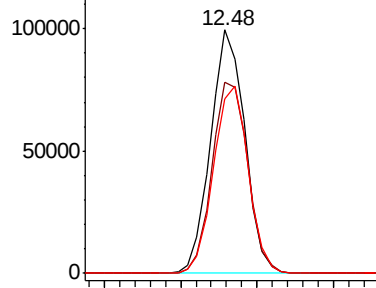
#62
4-Bromofluorobenzene
Concen: 44.613 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 95 Resp: 155001
Ion Ratio Lower Upper
95 100
174 81.4 0.0 159.6
176 78.3 0.0 153.8

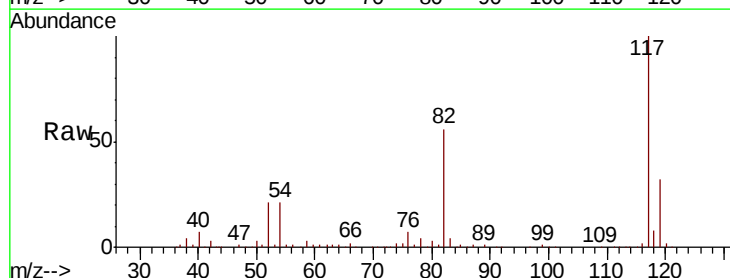


Abundance Ion 94.90 (94.60 to 95.60): VY0
Ion 173.80 (173.50 to 174.50): VY0
Ion 175.80 (175.50 to 176.50): VY0

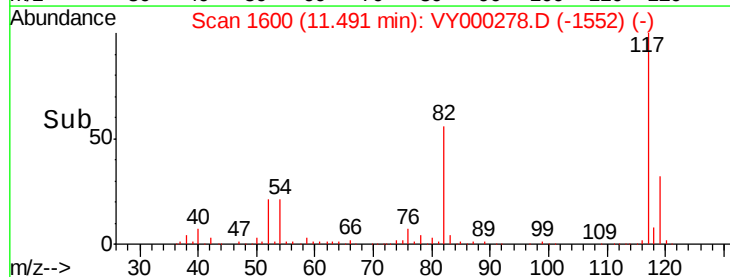
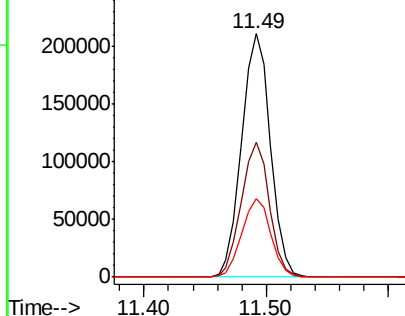


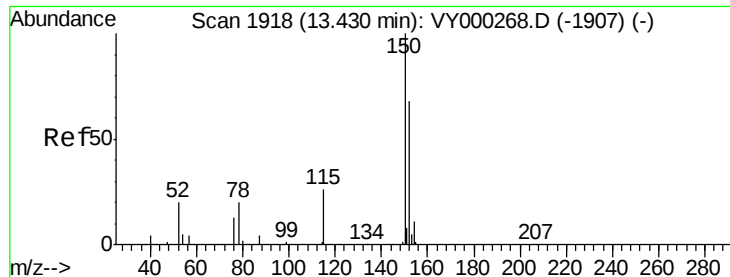
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Tgt Ion: 117 Resp: 344386
Ion Ratio Lower Upper
117 100
82 55.6 43.7 65.5
119 32.0 26.6 39.8



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



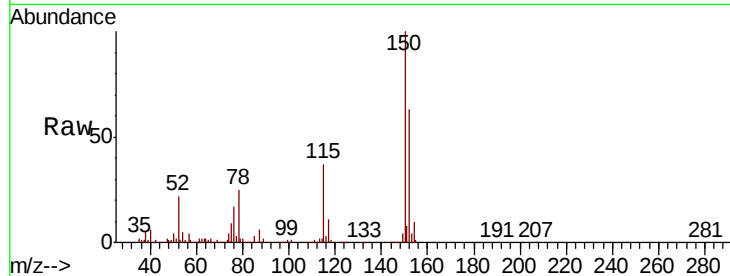


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.6	29.3	88.0
150	158.1	0.0	348.4

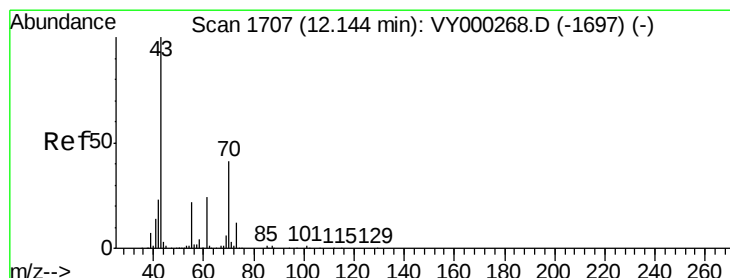
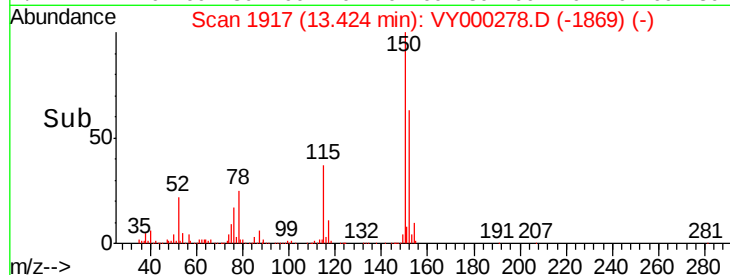
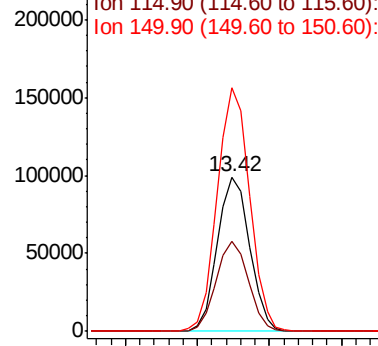


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

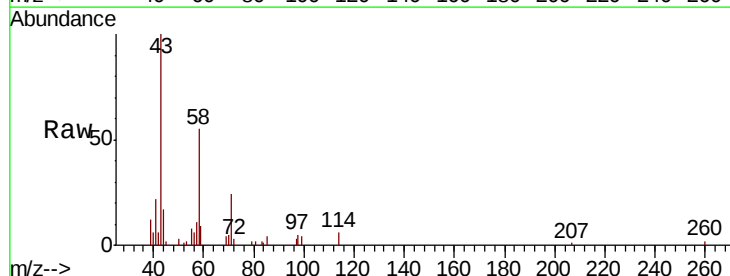
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.465 ug/l
RT: 12.10 min Scan# 1700
Delta R.T. -0.04 min
Lab File: VY000278.D
Acq: 11 Oct 2019 18:11

Tgt Ion	Ratio	Lower	Upper
43	100		
70	4.9	32.9	49.3#
55	0.0	17.8	26.6#
61	0.0	19.5	29.3#



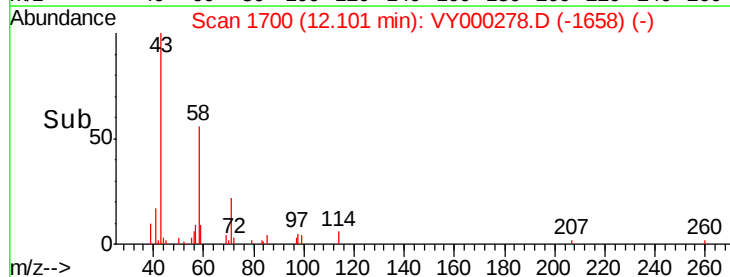
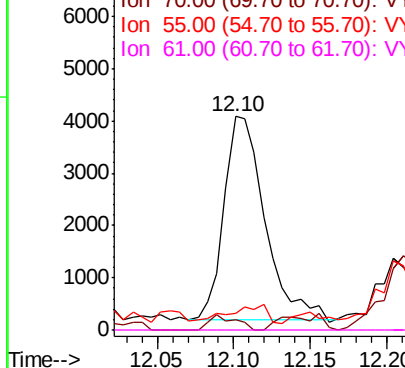
Abundance

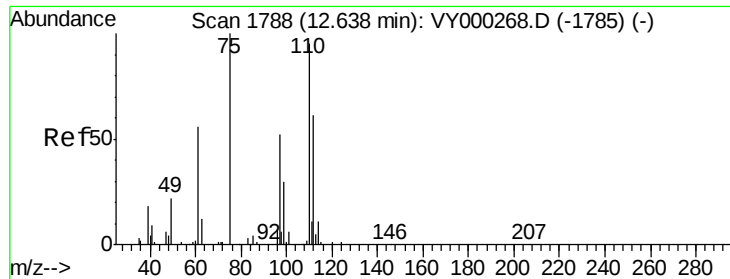
Ion 43.00 (42.70 to 43.70): VY0

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

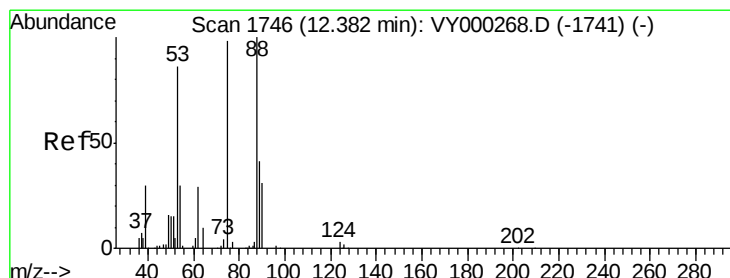
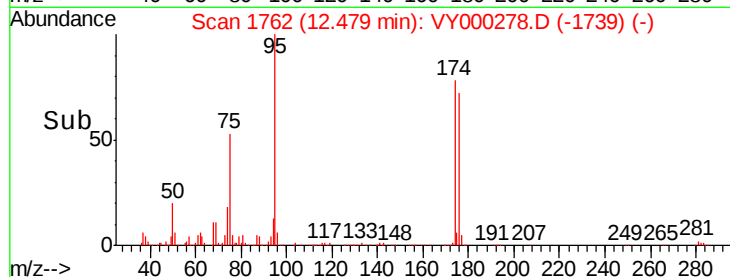
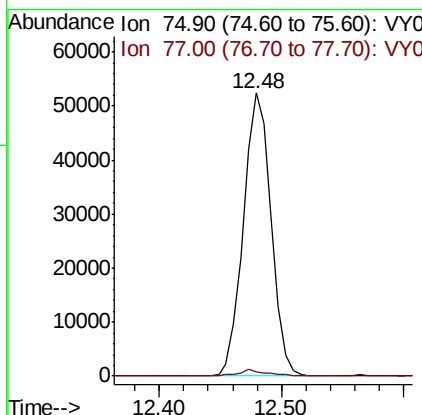
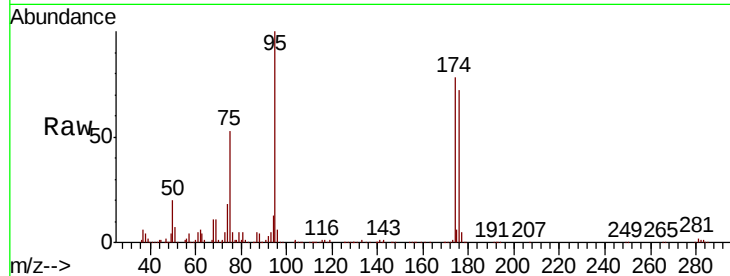




#76
 1,2,3-Trichloropropane
 Concen: 43.697 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.16 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 75 Resp: 82408
 Ion Ratio Lower Upper
 75 100
 77 2.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 95.608 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY000278.D
 Acq: 11 Oct 2019 18:11

Tgt Ion: 75 Resp: 82408
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.3 106.9#
 89 0.2 35.1 52.7#

