

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041919\
 Data File : VU031345.D
 Acq On : 19 Apr 2019 08:30
 Operator : JC/SP
 Sample : K2451-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 YAN03

Quant Time: Apr 19 11:03:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 19 07:47:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	179943	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	184543	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	84159	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	90627	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.68	69	74475	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.27	63	162338	4.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.60%
20) 2-Butanone-d5	4.20	46	205057	52.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.74%
24) Chloroform-d	4.65	84	142078	5.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.20%
26) 1,2-Dichloroethane-d4	5.31	65	73235	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.00%
32) Benzene-d6	5.33	84	242249	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.33	67	82020	5.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.60%
41) Toluene-d8	7.56	98	232472	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	7.85	79	30320	4.69	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
46) 2-Hexanone-d5	8.31	63	150725	50.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.72%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	77648	5.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	81284	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	76390	3.691 ug/L	98
5) Vinyl chloride	1.40	62	115444	4.046 ug/L	100
8) Chloroethane	1.70	64	234946	14.436 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	197168	10.168 ug/L	98
12) 1,1-Dichloroethene	2.28	96	44954	2.328 ug/L #	64
13) Acetone	2.34	43	612168	141.879 ug/L	98
15) Methyl Acetate	2.62	43	68661	5.822 ug/L	96
18) trans-1,2-Dichloroethene	2.98	96	59939	2.942 ug/L	94
19) 1,1-Dichloroethane	3.44	63	84384	2.968 ug/L	97
22) cis-1,2-Dichloroethene	4.22	96	65527	4.160 ug/L	82
23) Bromochloromethane	4.54	128	40950	5.833 ug/L	98
25) Chloroform	4.67	83	239371	8.546 ug/L	99
27) 1,2-Dichloroethane	5.40	62	40094	2.220 ug/L #	93
29) 1,1,1-Trichloroethane	4.91	97	47417	1.903 ug/L	95
31) Carbon tetrachloride	5.13	117	63298	2.844 ug/L	98
34) Trichloroethene	6.18	95	31979	1.889 ug/L	93
39) cis-1,3-Dichloropropene	7.27	75	100915	4.579 ug/L	99

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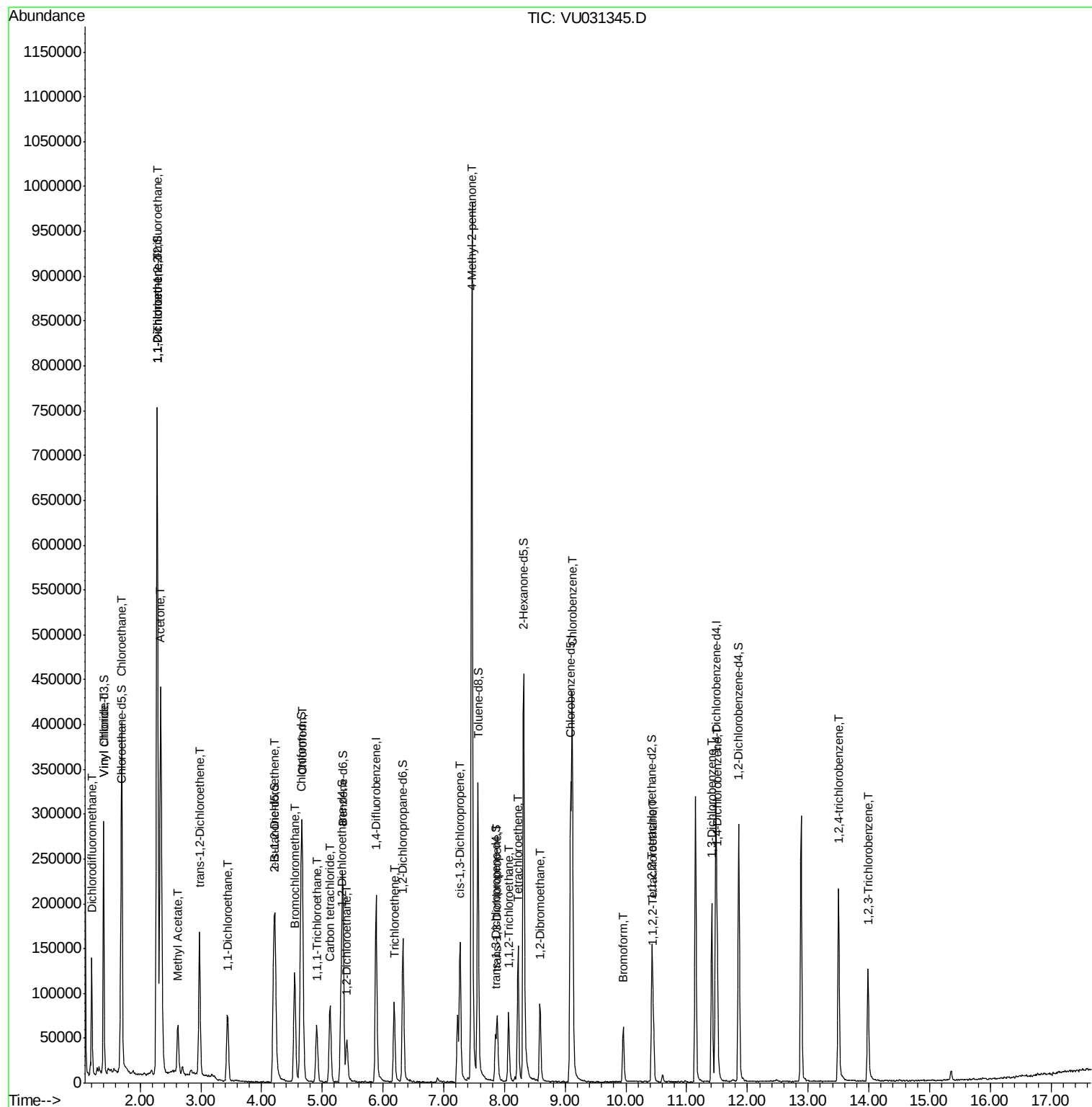
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.46	43	660135	62.257	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	42405	2.327	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	26618	2.262	ug/L	95
47) Tetrachloroethene	8.22	164	34836	2.761	ug/L	90
50) 1,2-Dibromoethane	8.59	107	62543	5.612	ug/L	97
51) Chlorobenzene	9.12	112	241634	6.111	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	29209	1.942	ug/L #	98
61) Bromoform	9.95	173	30040	3.713	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	86232	3.116	ug/L	95
63) 1,4-Dichlorobenzene	11.50	146	56313	2.019	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	74569	4.548	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	47100	2.773	ug/L	97

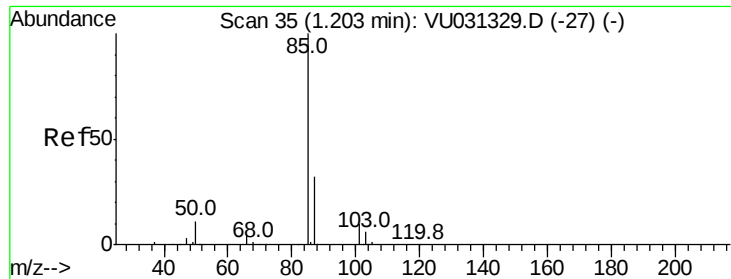
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.691 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

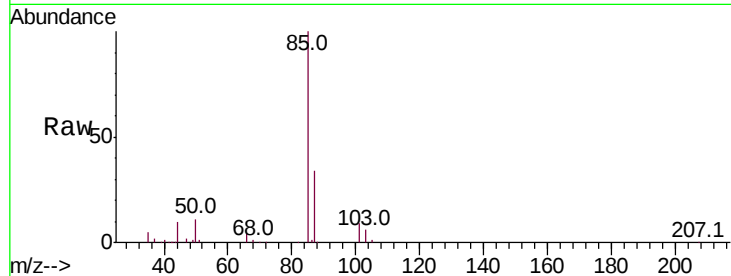
YAN03

Tot Ion: 85 Resp: 76390

Ion Ratio Lower Upper

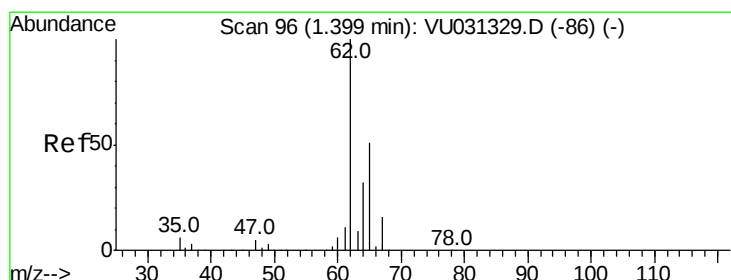
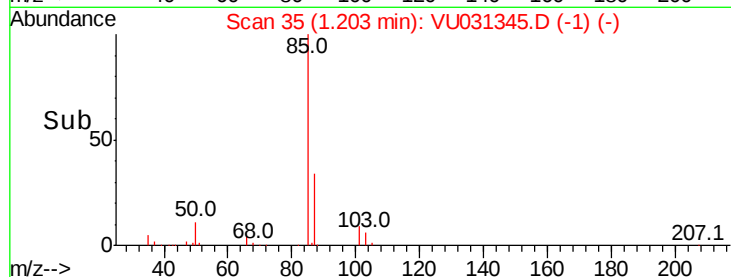
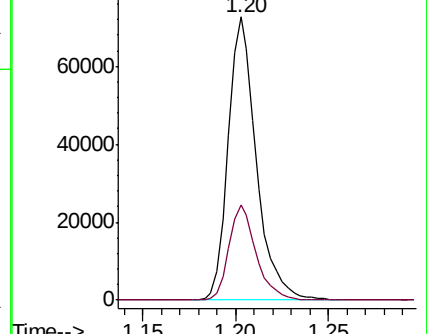
85 100

87 32.4 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#5

Vinyl chloride

Concen: 4.046 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031345.D

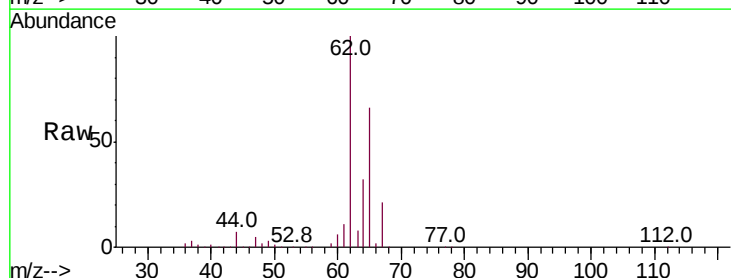
Acq: 19 Apr 2019 08:30

Tgt Ion: 62 Resp: 115444

Ion Ratio Lower Upper

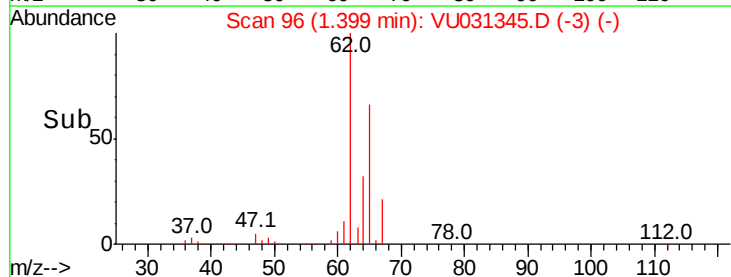
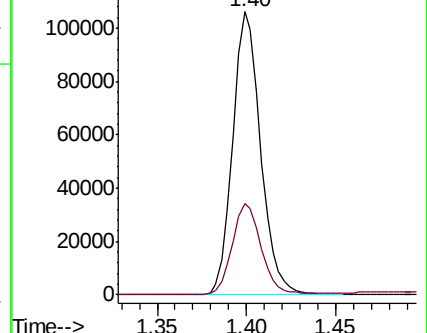
62 100

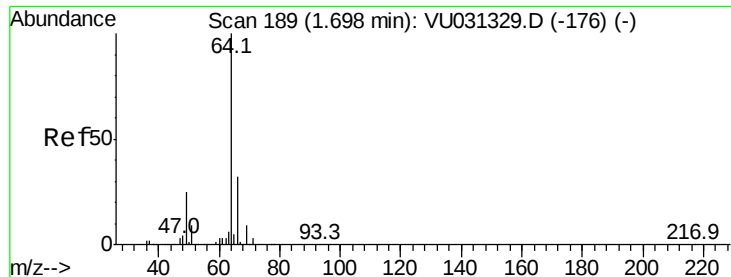
64 32.2 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

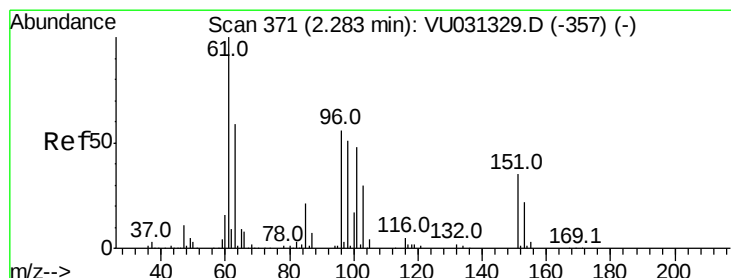
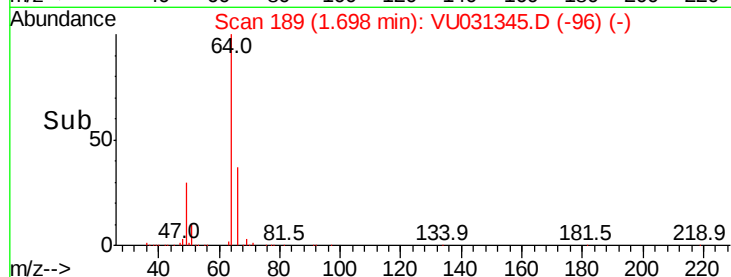
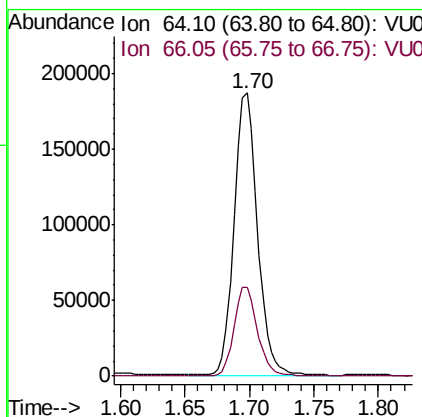
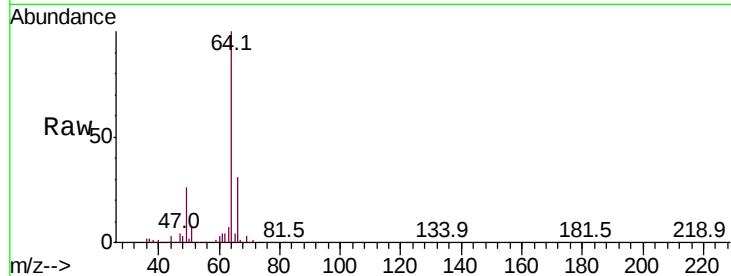




#8
Chloroethane
Concen: 14.436 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

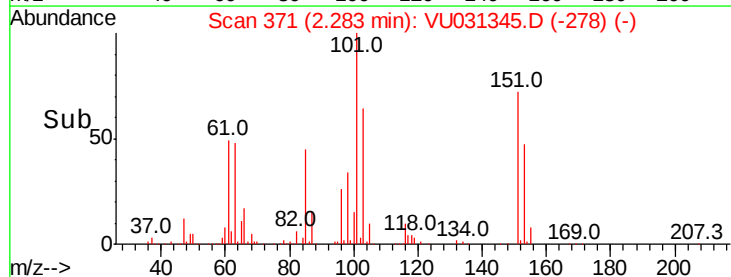
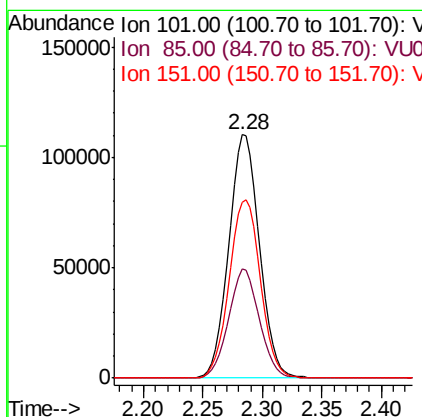
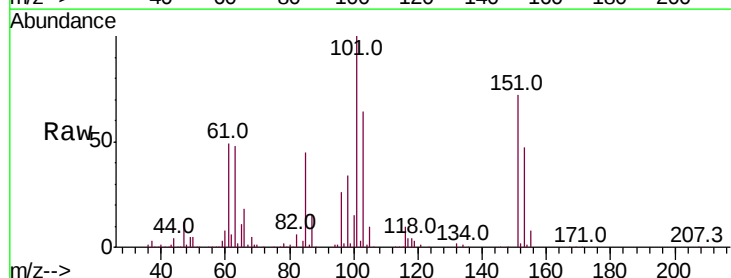
Instrument :
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ClientSampleId :
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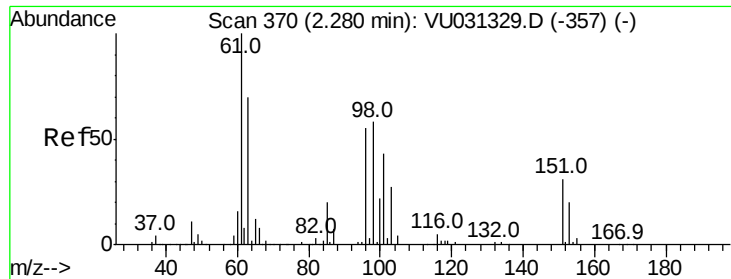
Tot Ion: 64 Resp: 234946
Ion Ratio Lower Upper
64 100
66 31.3 21.9 40.7



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.168 ug/L
RT: 2.28 min Scan# 371
Delta R.T. 0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

Tgt Ion: 101 Resp: 197168
Ion Ratio Lower Upper
101 100
85 44.9 37.2 55.8
151 74.5 58.9 88.3





#12

1,1-Dichloroethene

Concen: 2.328 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

YAN03

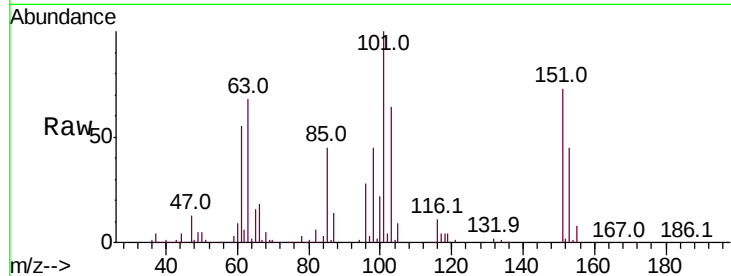
Tot Ion: 96 Resp: 44954

Ion Ratio Lower Upper

96 100

61 194.5 133.7 248.3

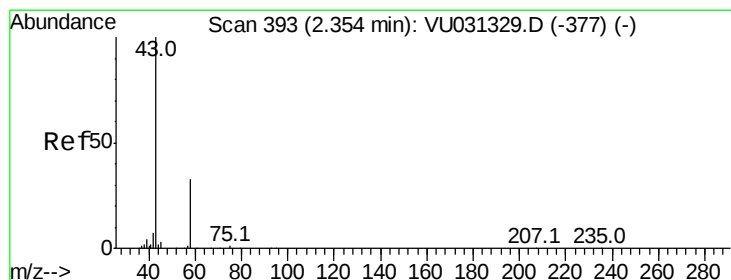
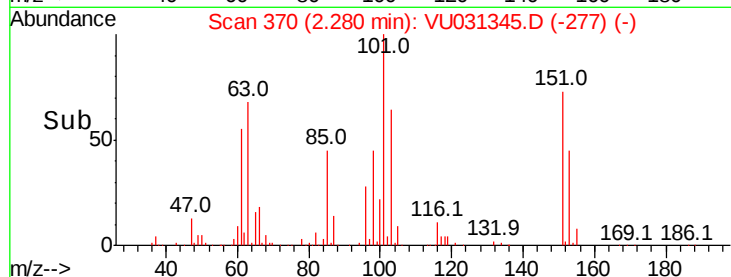
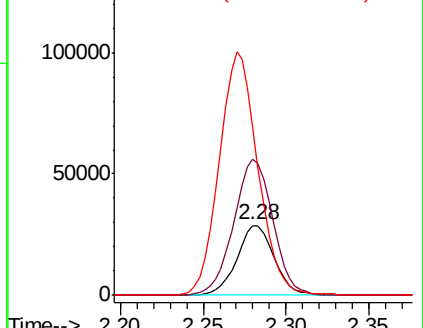
63 242.3 100.5 186.7#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 141.879 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.02 min

Lab File: VU031345.D

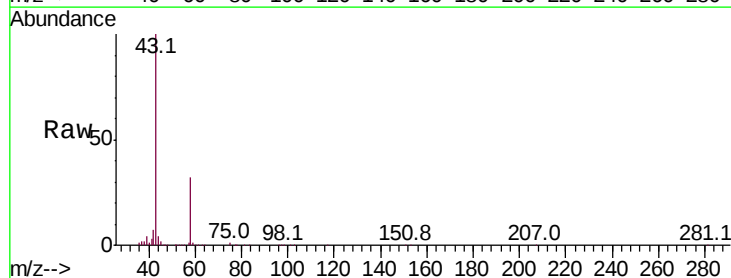
Acq: 19 Apr 2019 08:30

Tgt Ion: 43 Resp: 612168

Ion Ratio Lower Upper

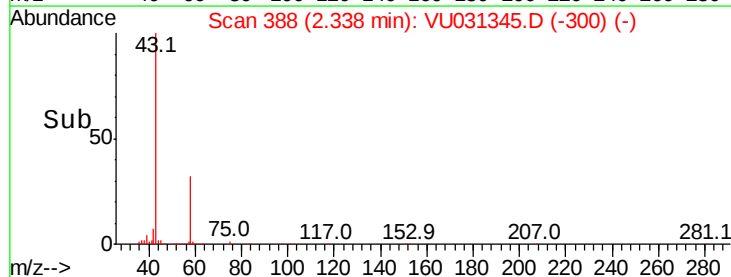
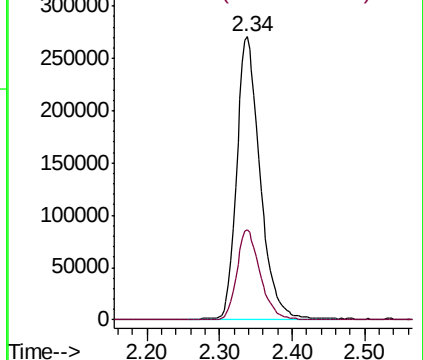
43 100

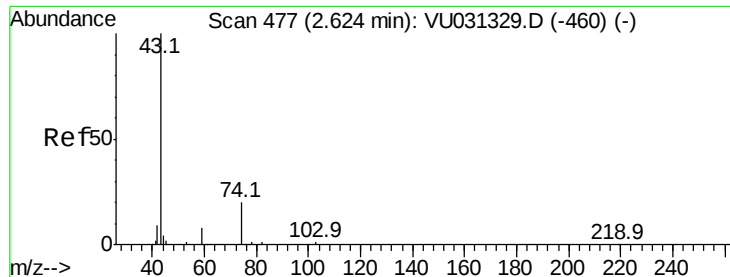
58 31.4 0.0 64.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 5.822 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

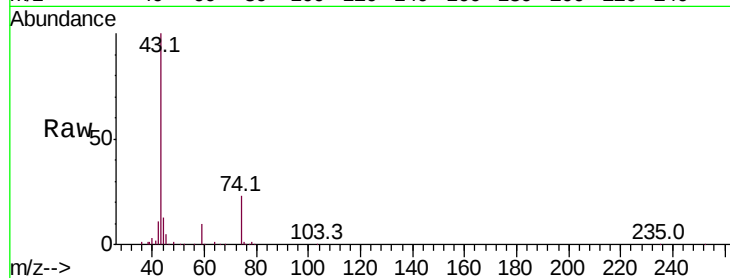
YAN03

Tot Ion: 43 Resp: 68661

Ion Ratio Lower Upper

43 100

74 22.7 16.7 25.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.62

40000

30000

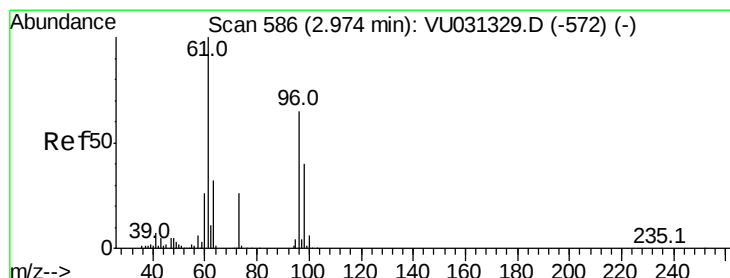
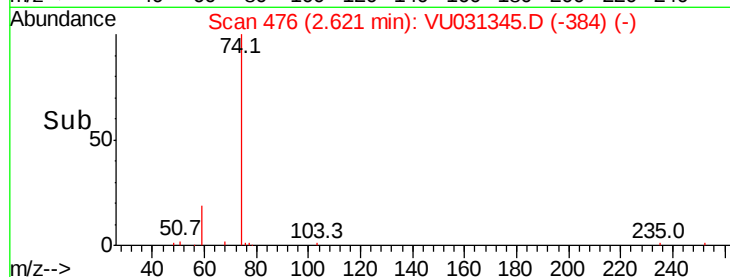
20000

10000

0

2.55 2.60 2.65 2.70

Time-->



#18

trans-1,2-Dichloroethene

Concen: 2.942 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

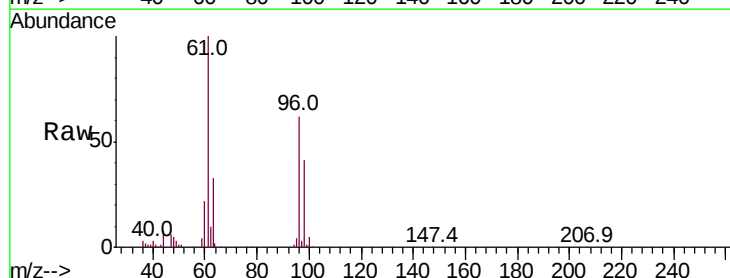
Tgt Ion: 96 Resp: 59939

Ion Ratio Lower Upper

96 100

61 160.6 106.5 197.7

98 65.1 43.5 80.9



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

60000

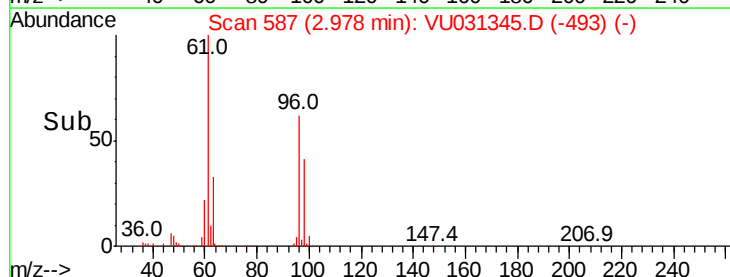
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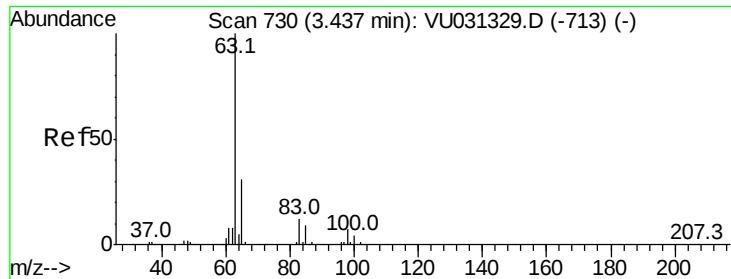
20000

0

2.90 2.95 3.00 3.05

Time-->

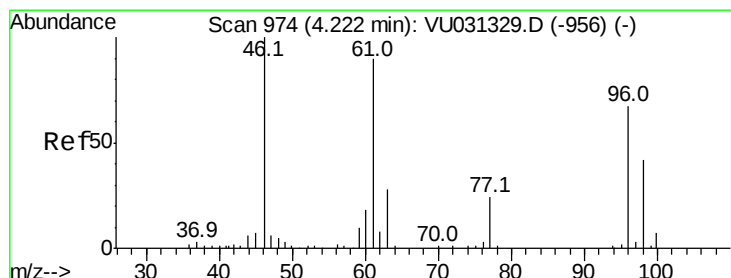
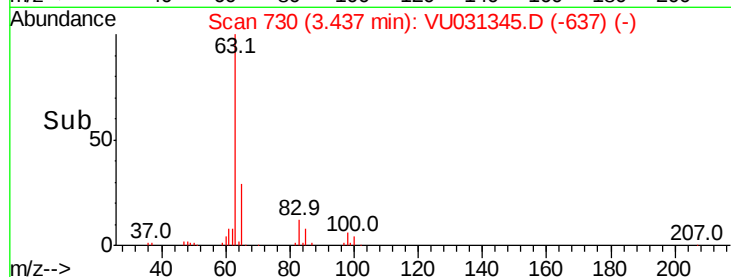
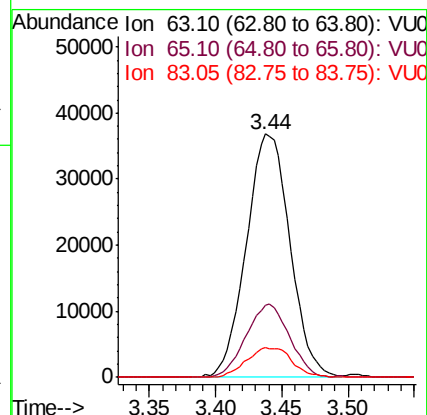
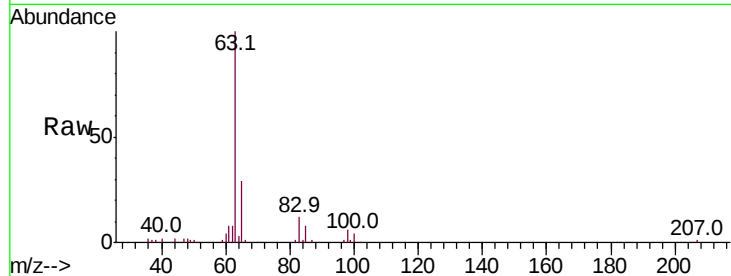




#19
 1,1-Dichloroethane
 Concen: 2.968 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU031345.D
 Acq: 19 Apr 2019 08:30

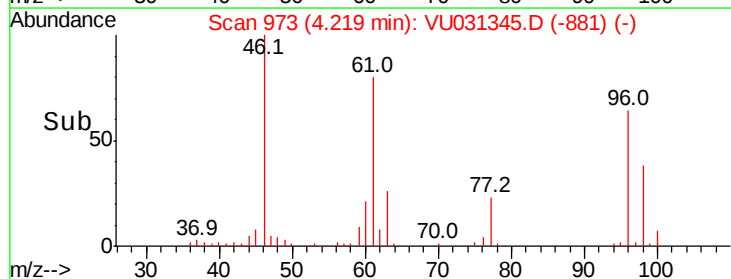
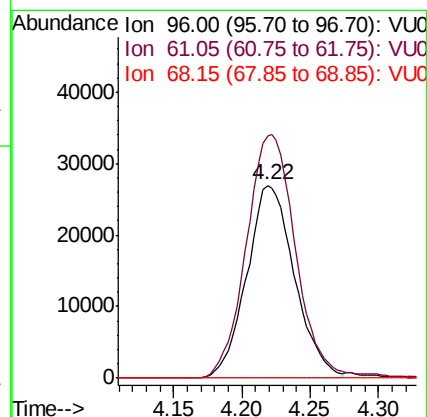
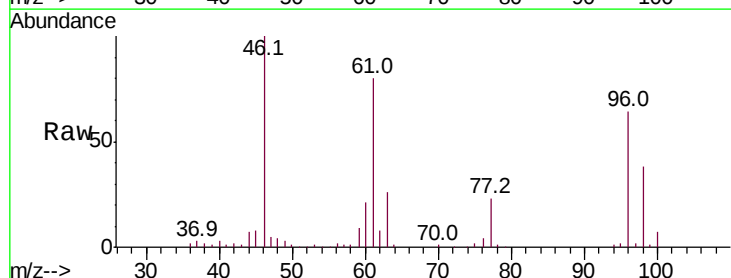
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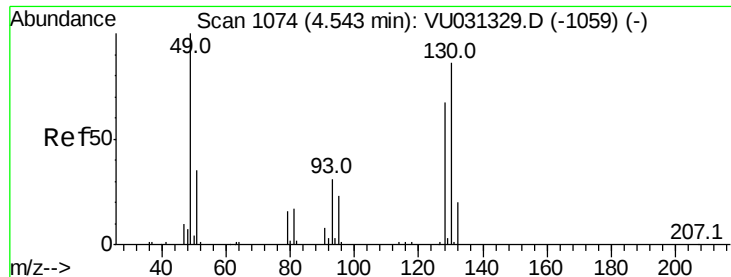
Tot Ion: 63 Resp: 84384
 Ion Ratio Lower Upper
 63 100
 65 29.4 22.0 41.0
 83 12.3 9.2 17.2



#22
 cis-1,2-Dichloroethene
 Concen: 4.160 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031345.D
 Acq: 19 Apr 2019 08:30

Tgt Ion: 96 Resp: 65527
 Ion Ratio Lower Upper
 96 100
 61 125.7 103.5 192.1
 68 0.0 0.0 0.0





#23

Bromochloromethane

Concen: 5.833 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

YAN03

Tot Ion:128 Resp: 40950

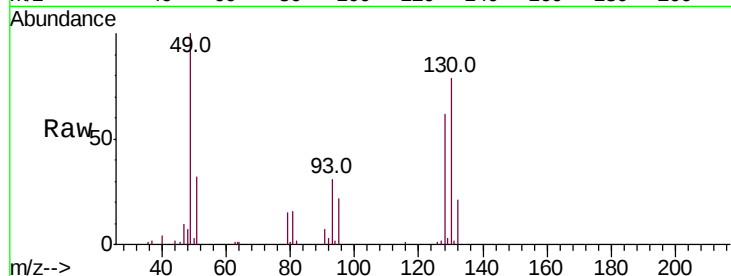
Ion Ratio Lower Upper

128 100

49 160.9 113.2 210.2

130 127.2 90.1 167.3

51 51.8 37.8 56.8

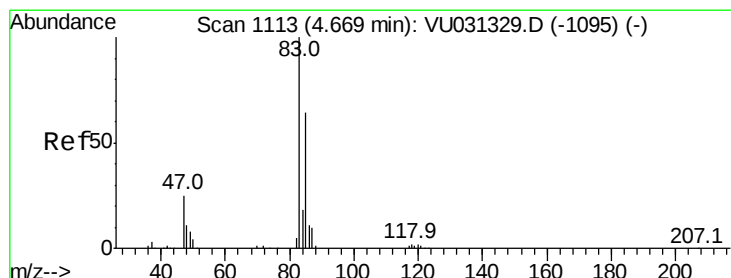
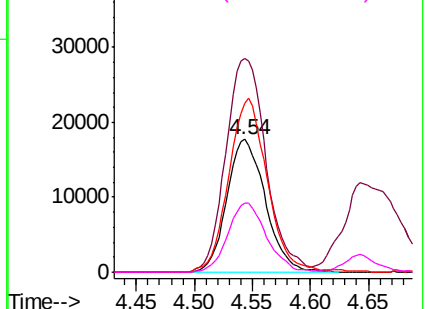
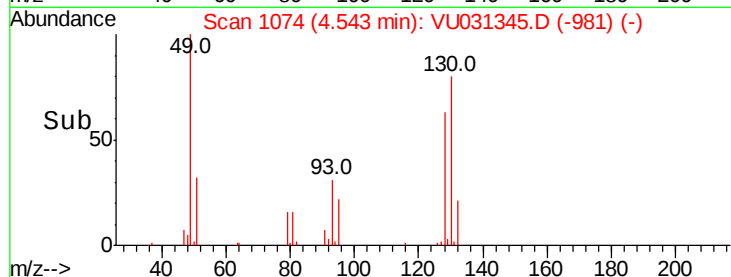


Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0



#25

Chloroform

Concen: 8.546 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031345.D

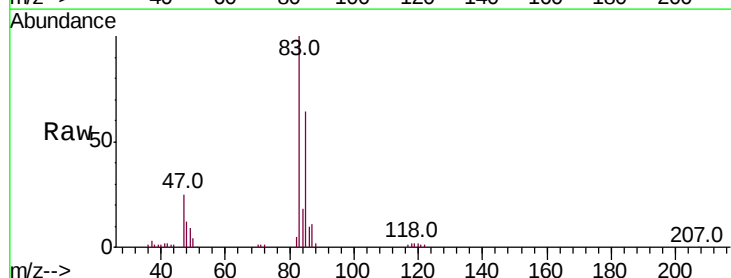
Acq: 19 Apr 2019 08:30

Tgt Ion: 83 Resp: 239371

Ion Ratio Lower Upper

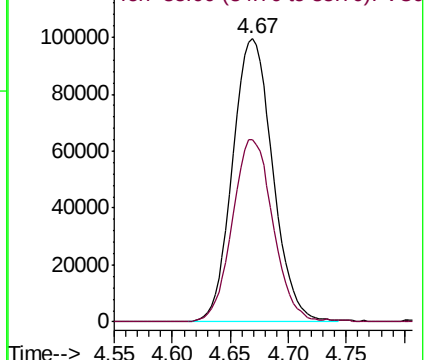
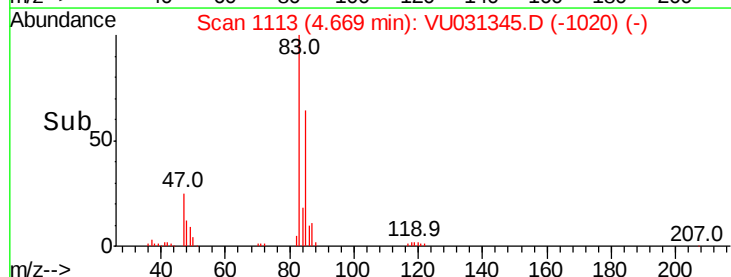
83 100

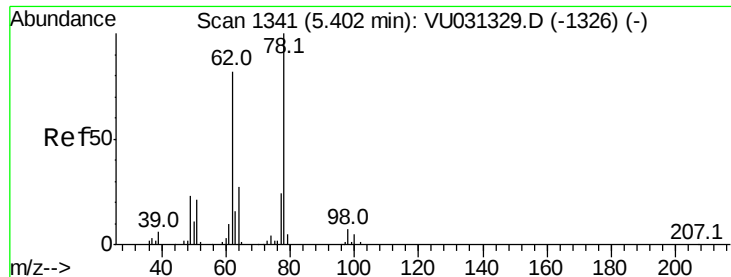
85 64.3 45.4 84.4



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 2.220 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

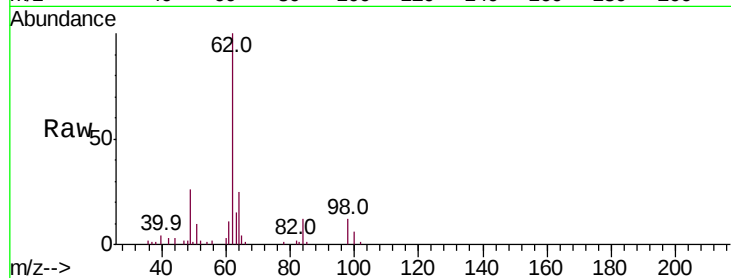
YAN03

Tot Ion: 62 Resp: 40094

Ion Ratio Lower Upper

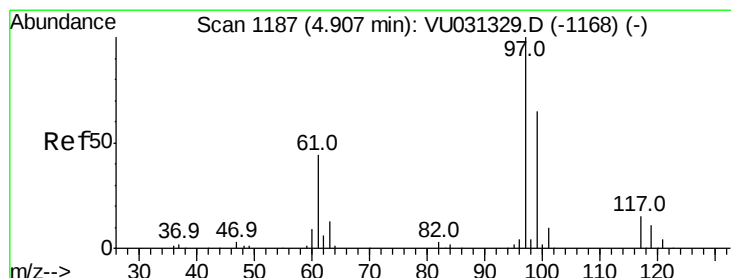
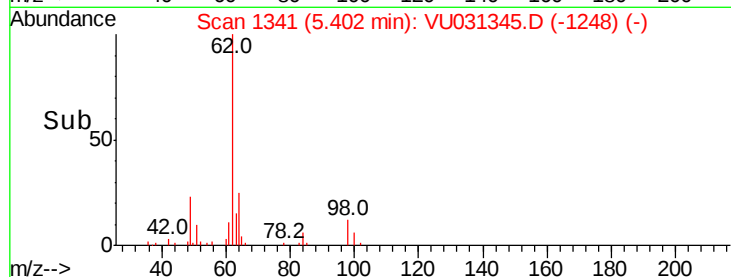
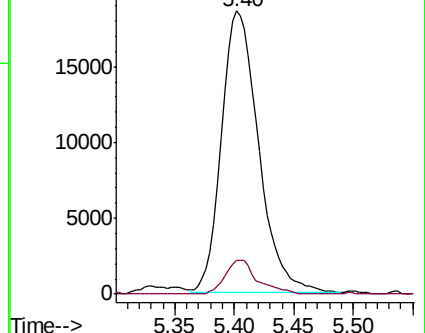
62 100

98 11.7 7.4 11.0#



Abundance Ion 62.00 (61.70 to 62.70): VU031329.D (-1326) (-)

Ion 98.05 (97.75 to 98.75): VU031329.D (-1326) (-)



#29

1,1,1-Trichloroethane

Concen: 1.903 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

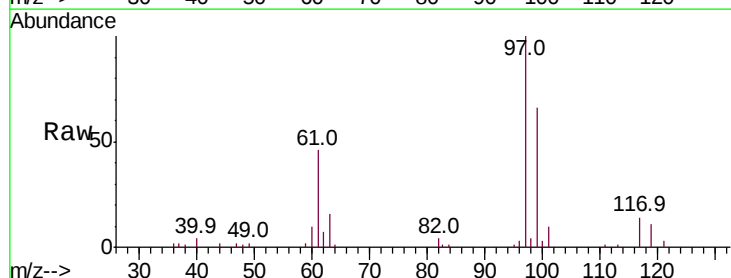
Tgt Ion: 97 Resp: 47417

Ion Ratio Lower Upper

97 100

99 68.1 50.6 76.0

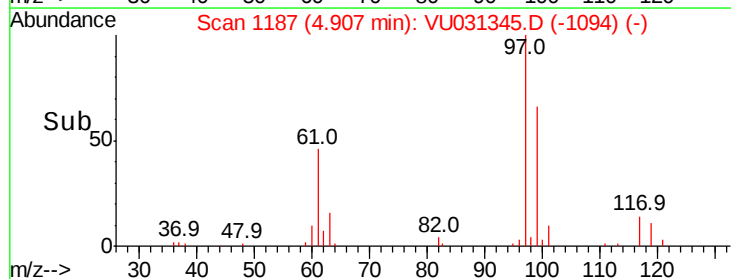
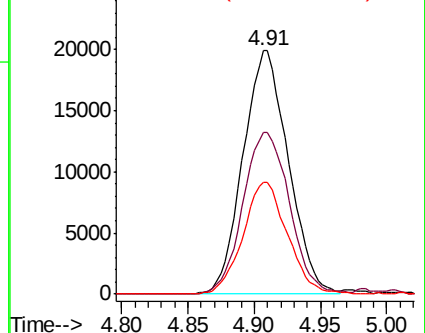
61 45.0 33.9 50.9

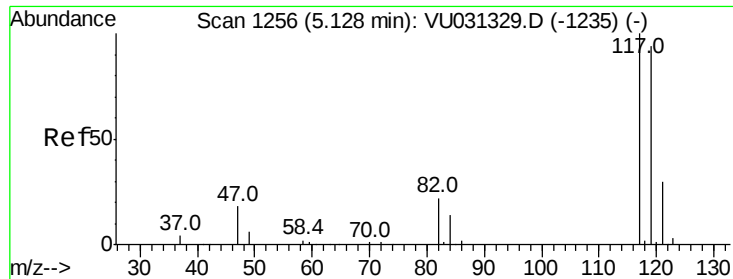


Abundance Ion 96.95 (96.65 to 97.65): VU031329.D (-1168) (-)

Ion 99.05 (98.75 to 99.75): VU031329.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031329.D (-1168) (-)

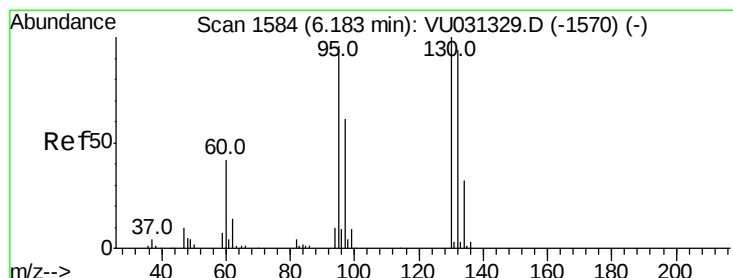
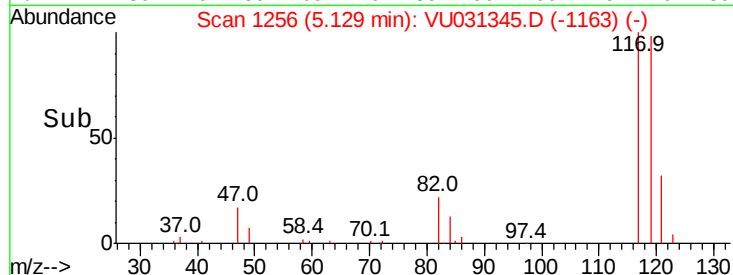
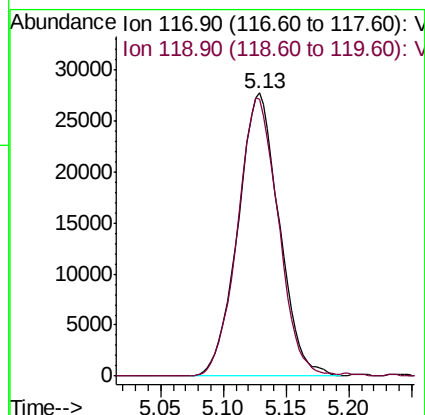
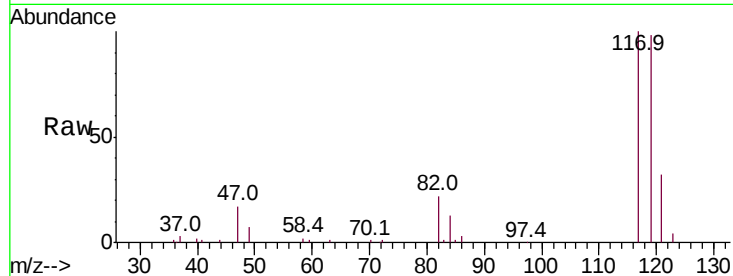




#31
Carbon tetrachloride
Concen: 2.844 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

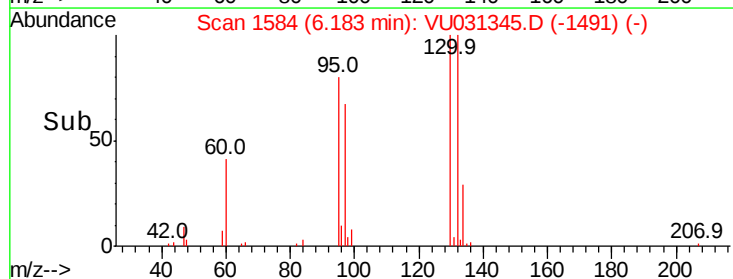
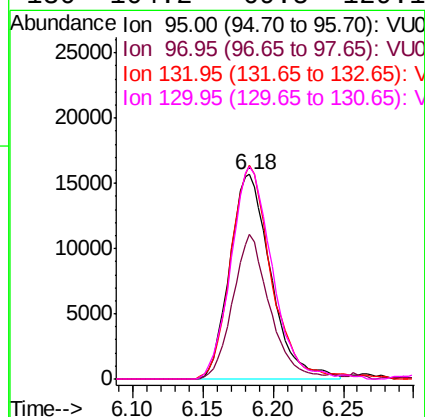
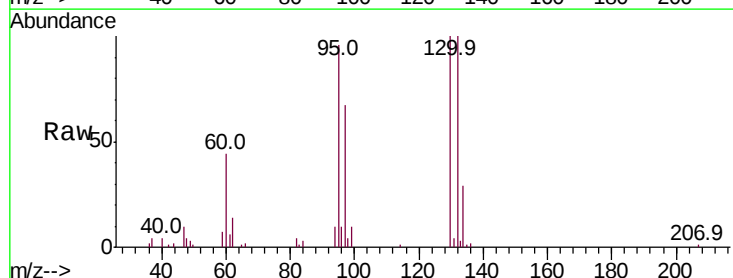
Instrument :
MSVOA_U
ClientSampleId :
YAN03

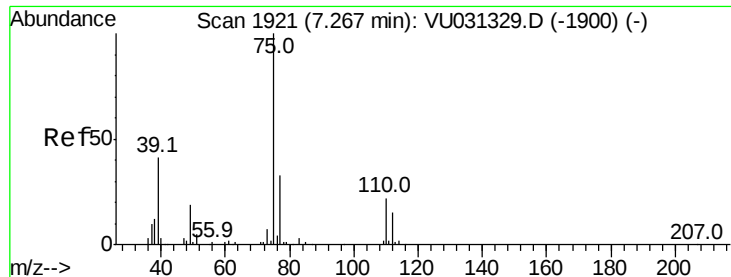
Tot Ion:117 Resp: 63298
Ion Ratio Lower Upper
117 100
119 97.0 79.6 119.4



#34
Trichloroethene
Concen: 1.889 ug/L
RT: 6.18 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

Tgt Ion: 95 Resp: 31979
Ion Ratio Lower Upper
95 100
97 70.5 46.8 86.8
132 104.4 65.8 122.2
130 104.2 69.5 129.1



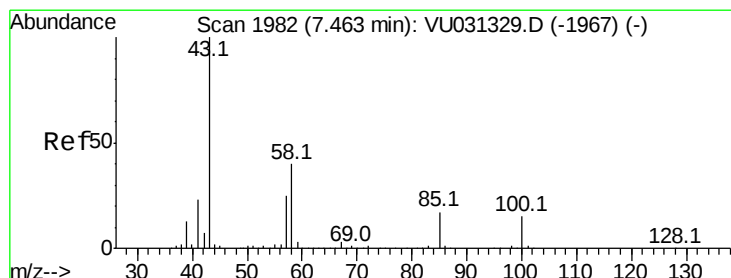
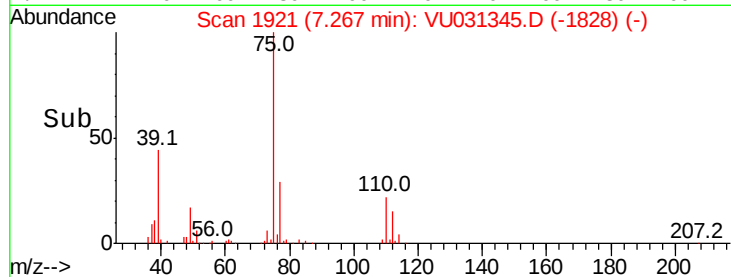
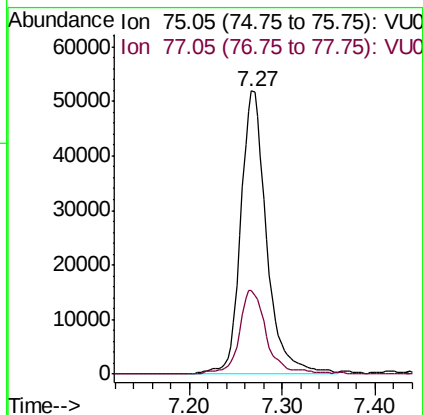
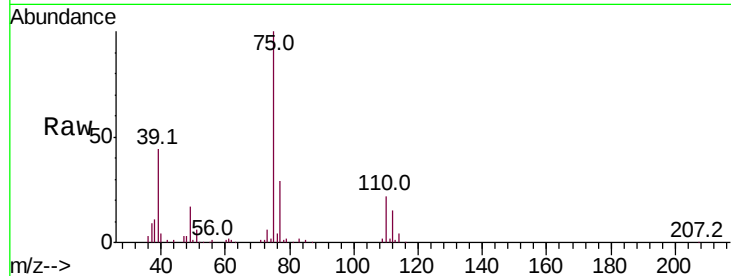


#39

cis-1,3-Dichloropropene
Concen: 4.579 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

Instrument :
MSVOA_U
ClientSampleId :
YAN03

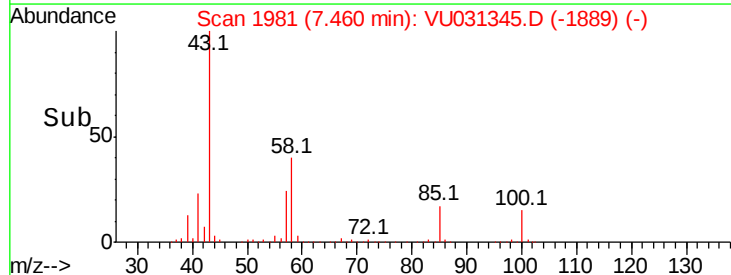
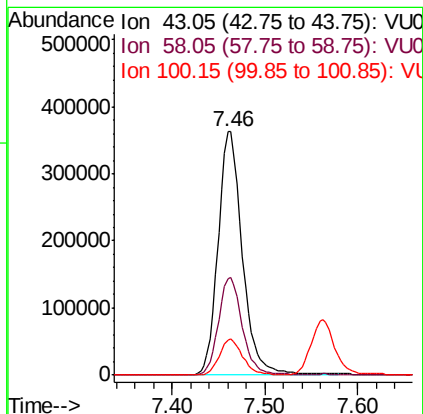
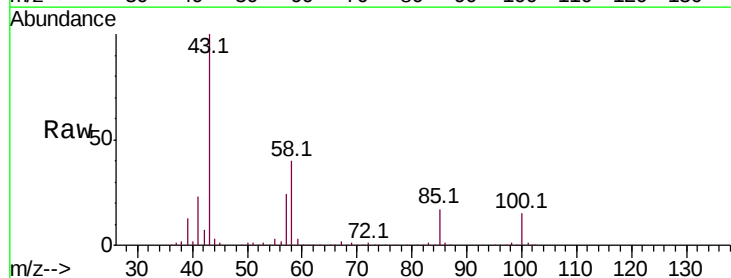
Tot Ion: 75 Resp: 100915
Ion Ratio Lower Upper
75 100
77 29.4 20.2 37.4

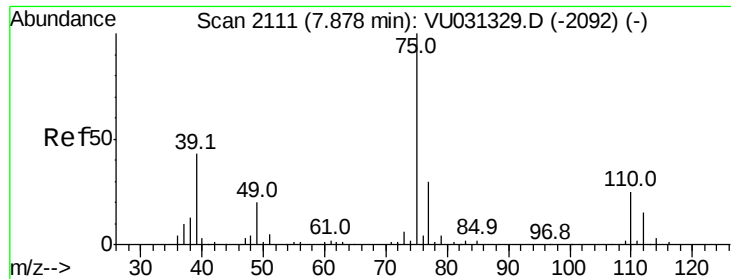


#40

4-Methyl-2-pentanone
Concen: 62.257 ug/L
RT: 7.46 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VU031345.D
Acq: 19 Apr 2019 08:30

Tgt Ion: 43 Resp: 660135
Ion Ratio Lower Upper
43 100
58 39.3 30.7 46.1
100 14.2 11.1 16.7





#44

trans-1,3-Dichloropropene

Concen: 2.327 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

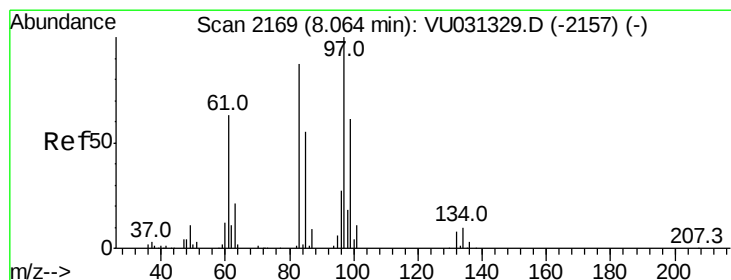
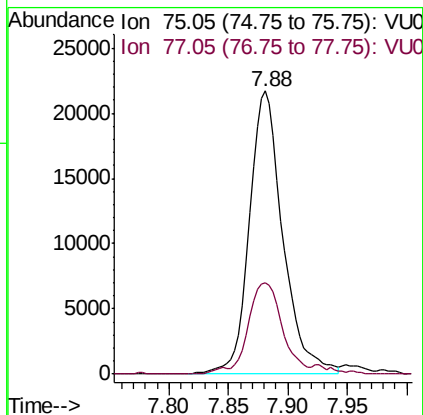
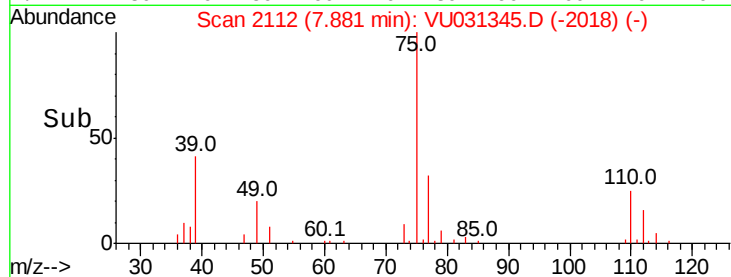
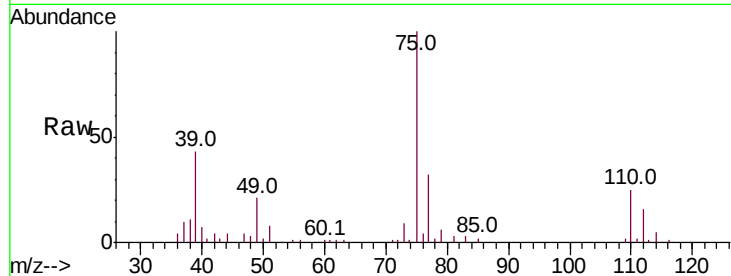
Instrument :
MSVOA_U
ClientSampleId :
YAN03

Tot Ion: 75 Resp: 42405

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.0



#45

1,1,2-Trichloroethane

Concen: 2.262 ug/L

RT: 8.07 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Tgt Ion: 97 Resp: 26618

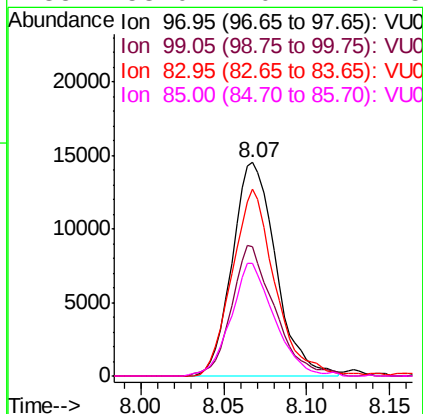
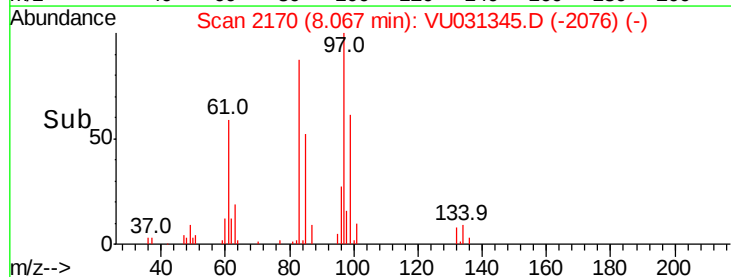
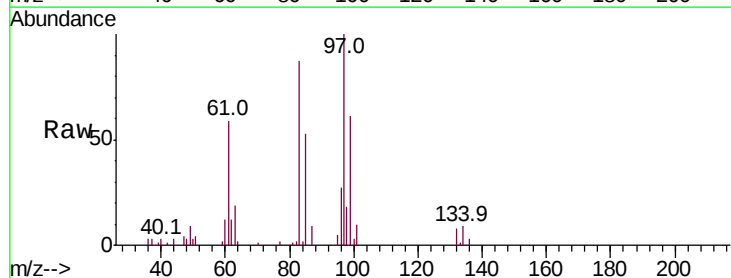
Ion Ratio Lower Upper

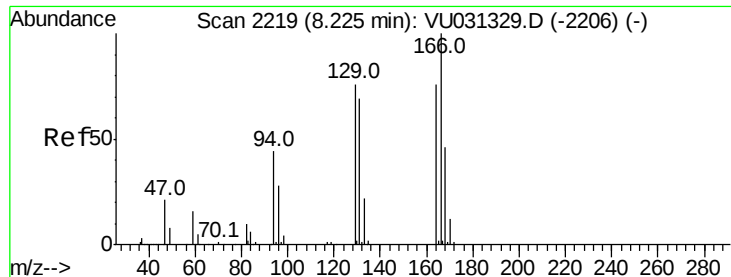
97 100

99 60.8 44.8 83.2

83 87.3 64.9 120.5

85 53.0 40.1 74.5





#47

Tetrachloroethene

Concen: 2.761 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

YAN03

Tot Ion:164 Resp: 34836

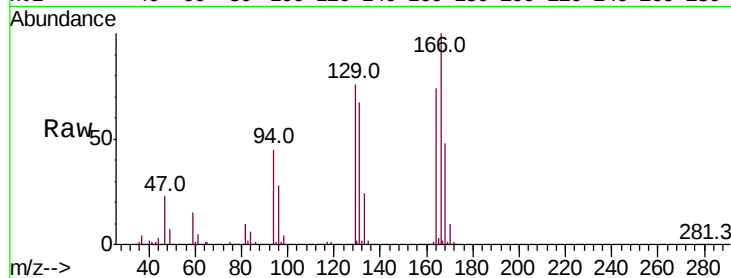
Ion Ratio Lower Upper

164 100

129 102.2 61.9 114.9

131 90.0 61.5 114.3

166 134.2 84.6 157.0

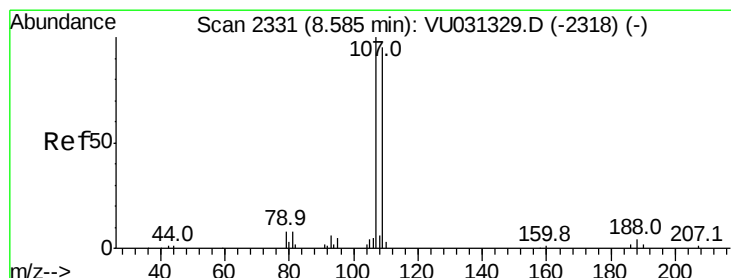
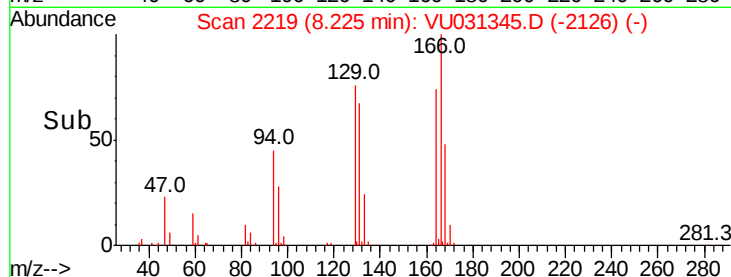
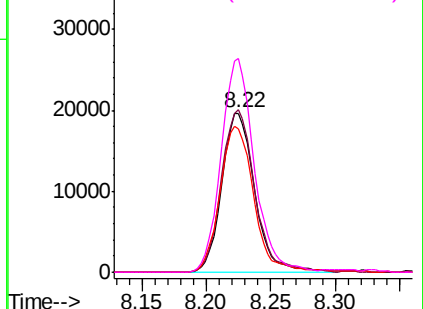


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

1,2-Dibromoethane

Concen: 5.612 ug/L

RT: 8.59 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

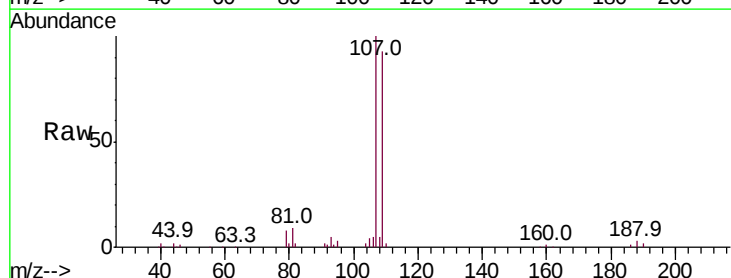
Tgt Ion:107 Resp: 62543

Ion Ratio Lower Upper

107 100

109 93.3 63.6 118.2

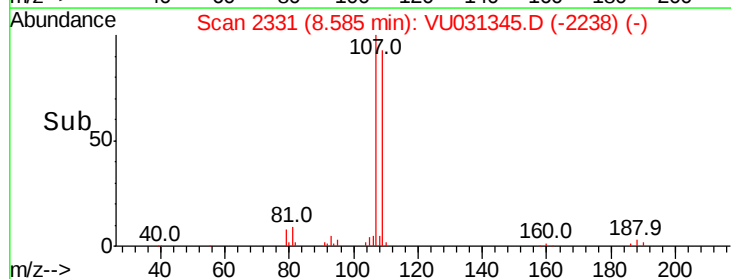
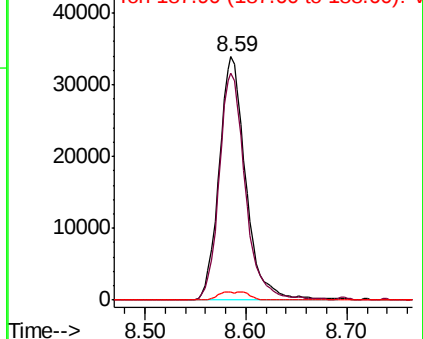
188 3.3 2.9 4.3

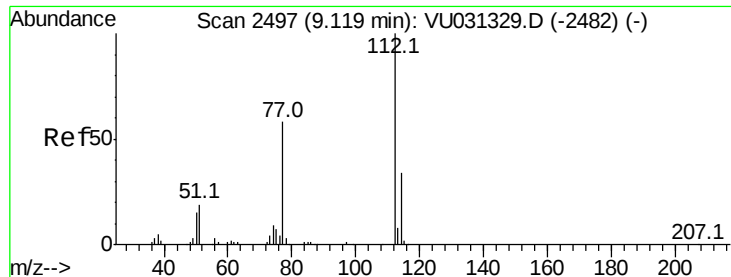


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V





#51

Chlorobenzene

Concen: 6.111 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

YAN03

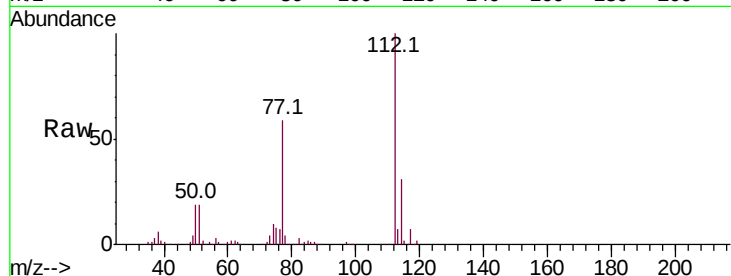
Tot Ion:112 Resp: 241634

Ion Ratio Lower Upper

112 100

114 31.0 21.6 40.2

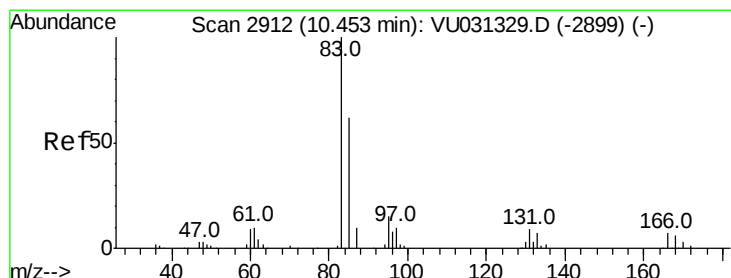
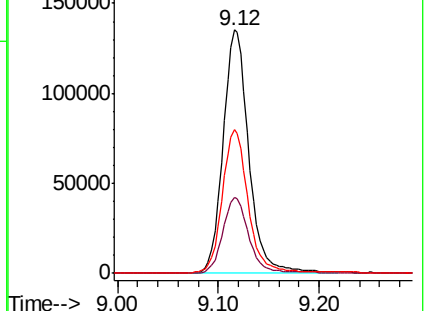
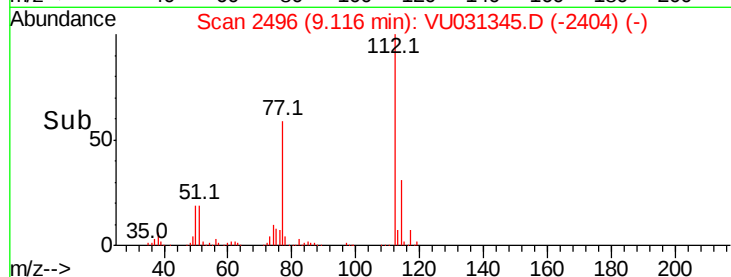
77 59.1 47.1 70.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#58

1,1,2,2-Tetrachloroethane

Concen: 1.942 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

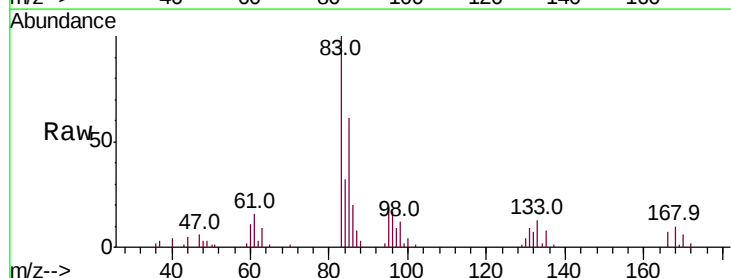
Tgt Ion: 83 Resp: 29209

Ion Ratio Lower Upper

83 100

85 60.9 43.1 80.1

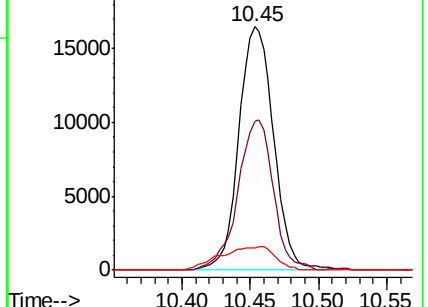
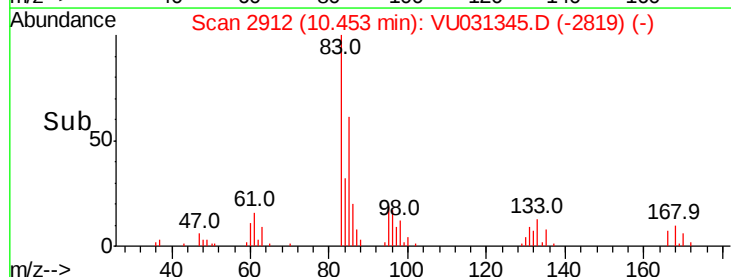
131 9.4 9.4 14.2#

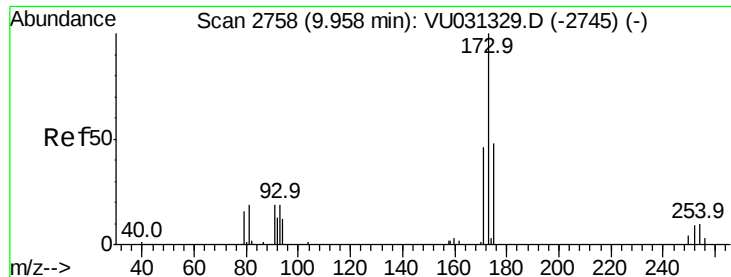


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#61

Bromoform

Concen: 3.713 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

Instrument :

MSVOA_U

ClientSampleId :

YAN03

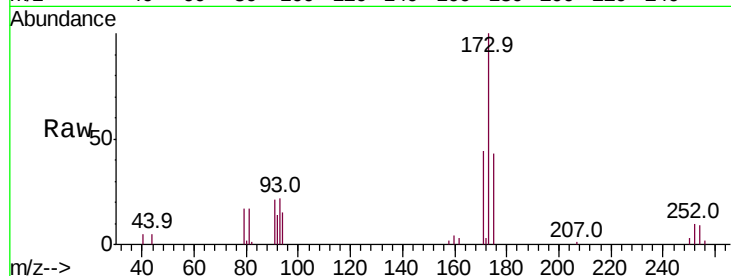
Tot Ion:173 Resp: 30040

Ion Ratio Lower Upper

173 100

175 47.6 39.2 58.8

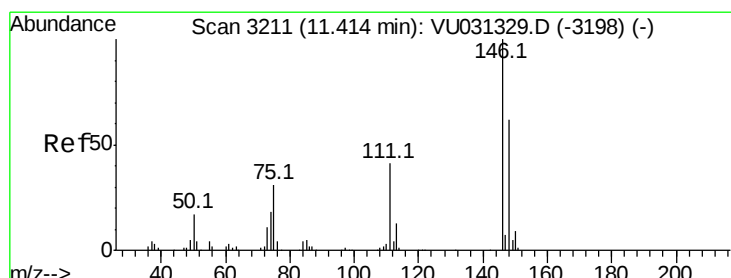
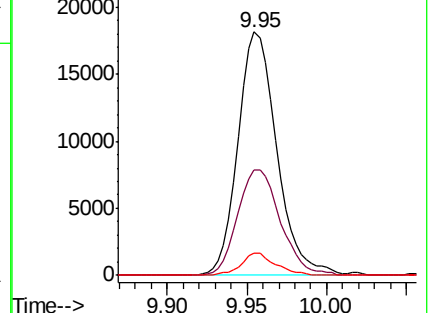
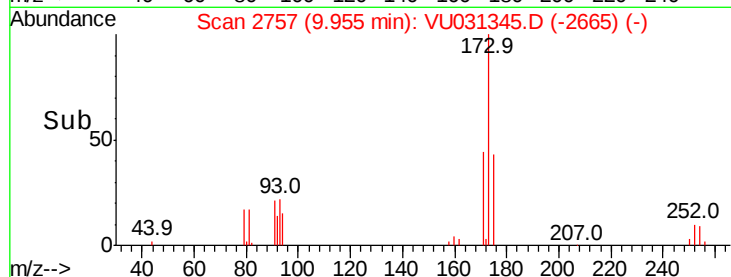
254 8.0 7.0 10.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 3.116 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031345.D

Acq: 19 Apr 2019 08:30

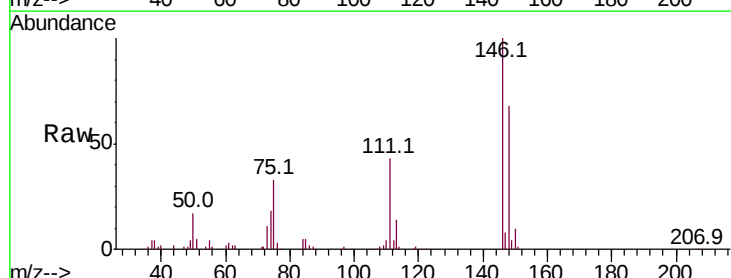
Tgt Ion:146 Resp: 86232

Ion Ratio Lower Upper

146 100

111 43.3 27.6 51.2

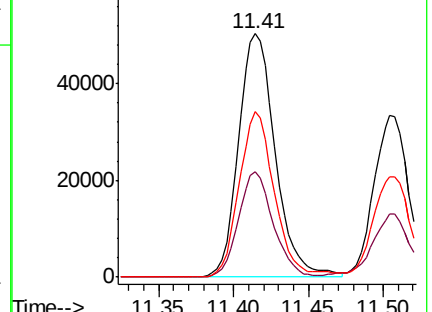
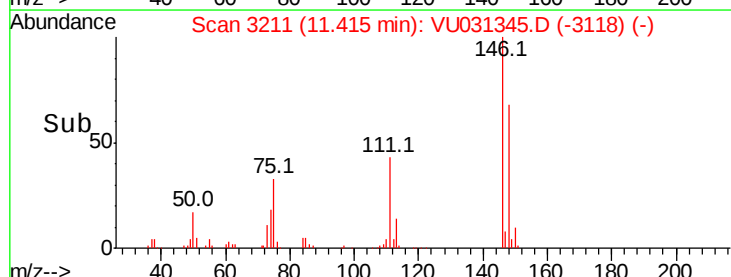
148 67.8 45.4 84.4

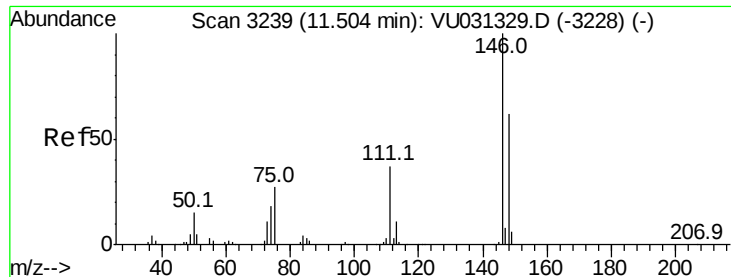


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

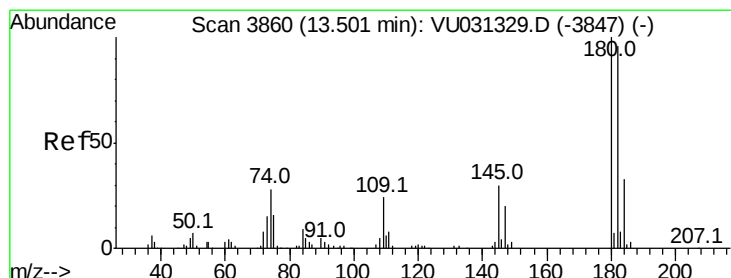
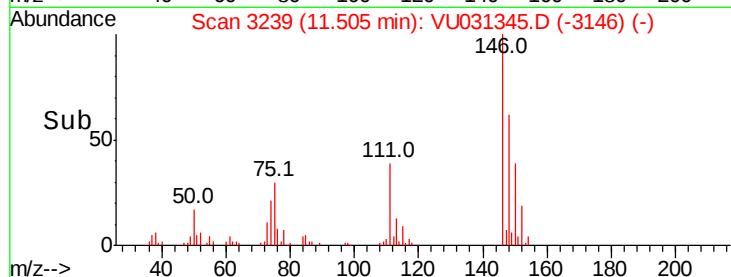
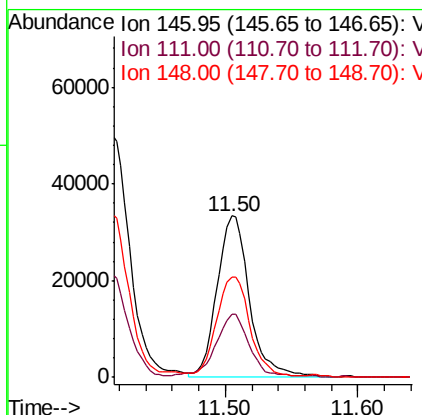
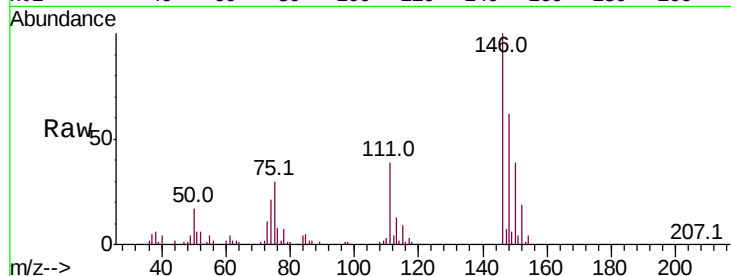




#63
 1,4-Dichlorobenzene
 Concen: 2.019 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031345.D
 Acq: 19 Apr 2019 08:30

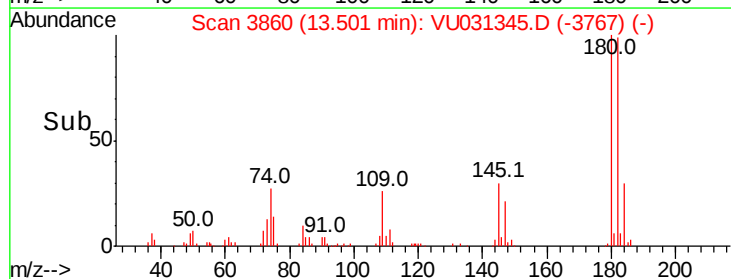
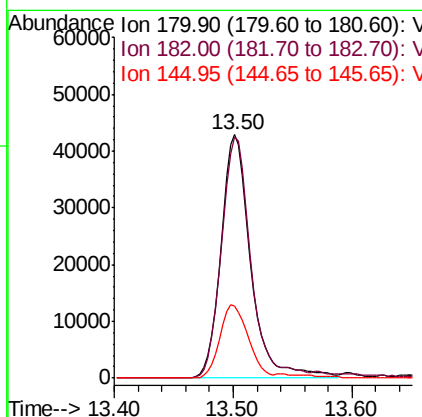
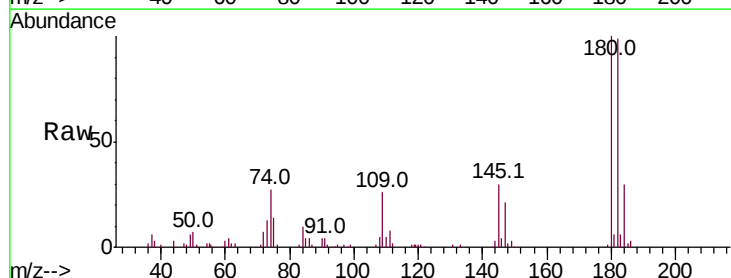
Instrument :
 MSVOA_U
 ClientSampleId :
 YAN03

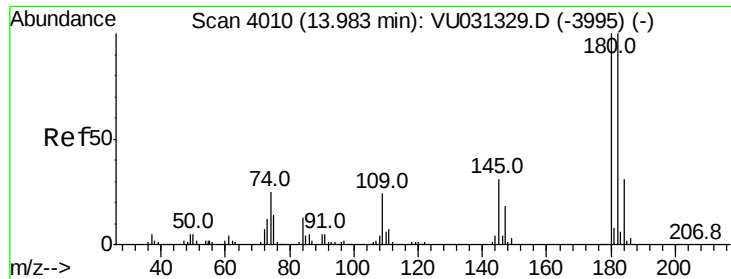
Tot Ion:146 Resp: 56313
 Ion Ratio Lower Upper
 146 100
 111 38.8 27.6 51.2
 148 62.2 44.9 83.5



#68
 1,2,4-trichlorobenzene
 Concen: 4.548 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031345.D
 Acq: 19 Apr 2019 08:30

Tgt Ion:180 Resp: 74569
 Ion Ratio Lower Upper
 180 100
 182 97.6 75.2 112.8
 145 28.5 22.7 34.1

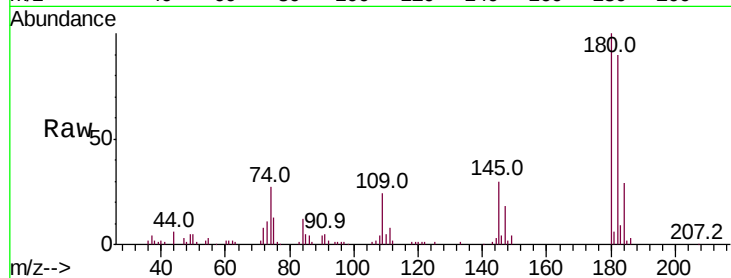




#70
 1,2,3-Trichlorobenzene
 Concen: 2.773 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU031345.D
 Acq: 19 Apr 2019 08:30

Instrument :
 MSVOA_U
 ClientSampleId :
 YAN03

Tot Ion:180 Resp: 47100
 Ion Ratio Lower Upper
 180 100
 182 90.5 74.3 111.5
 145 29.6 25.3 37.9



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

