

Data File : VU033388.D
Acq On : 24 Jul 2019 12:14
Operator : JC/SP
Sample : K3591-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Quant Time: Jul 25 07:44:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U072219DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Jul 24 03:53:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	25362	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.30	95	8260	0.83	ug/l	0.00
Spiked Amount	1.000		Recovery	=	83.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	9510	0.93	ug/l	0.00
Spiked Amount	1.000		Recovery	=	93.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	2900	0.276 ug/l	98
3) Chloromethane	1.33	50	3172	0.274 ug/l	100
4) Vinyl Chloride	1.40	62	3293	0.255 ug/l	98
5) Bromomethane	1.62	94	2865	0.352 ug/l	88
6) Chloroethane	1.69	64	2140	0.236 ug/l	91
7) Trichlorofluoromethane	1.88	101	4318	0.243 ug/l	89
8) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2287	0.250 ug/l	92
9) 1,1-Dichloroethene	2.27	96	2517	0.279 ug/l	78
11) Allyl Chloride	2.58	41	3999	0.269 ug/l	88
12) Acrylonitrile	2.92	53	1091	0.434 ug/l #	64
13) Acetone	2.31	43	4445	2.071 ug/l	99
14) Carbon Disulfide	2.46	76	9259	0.270 ug/l	97
15) Methylene Chloride	2.68	84	5774	0.475 ug/l	97
16) trans-1,2-Dichloroethene	2.96	96	2784	0.260 ug/l	92
17) 1,1-Dichloroethane	3.42	63	5353	0.373 ug/l #	92
18) 2-Butanone	4.27	43	2296	1.121 ug/l	76
19) Cyclohexane	4.97	56	2355	0.223 ug/l	93
20) Methylcyclohexane	6.39	83	2214	0.209 ug/l	91
21) 2,2-Dichloropropane	4.20	77	3821	0.314 ug/l #	88
22) cis-1,2-Dichloroethene	4.19	96	2077	0.256 ug/l	88
23) Diethyl Ether	2.09	59	2005	0.258 ug/l #	84
24) tert-Butyl Alcohol	2.82	59	4306	Below Cal	# 82
25) Methyl tert-Butyl Ether	2.99	73	6249	0.241 ug/l #	86
27) Chloroform	4.65	83	6381	0.389 ug/l	98
28) 1,1,1-Trichloroethane	4.89	97	3276	0.258 ug/l	93
29) 1,1-Dichloropropene	5.12	75	2461	0.235 ug/l	95
30) Carbon Tetrachloride	5.11	117	2838	0.254 ug/l	95
31) Isopropyl Ether	3.56	45	4473	0.246 ug/l	87
32) Ethyl-t-butyl ether	4.05	59	3841	0.220 ug/l #	60
33) Tert-Amyl methyl ether	5.57	73	3189	0.203 ug/l #	81
34) Propionitrile	4.33	54	345	0.587 ug/l #	45
35) Benzene	5.37	78	7123	0.235 ug/l	98
36) 1,2-Dichloroethane	5.39	62	2282	0.226 ug/l #	87
37) Trichloroethene	6.17	130	1942	0.243 ug/l	99
38) 1,2-Dichloropropane	6.42	63	1847	0.221 ug/l #	88
42) 1-Chlorobutane	5.04	56	3214	0.229 ug/l	92
43) Dibromomethane	6.54	93	1032	0.223 ug/l	96
44) Bromodichloromethane	6.74	83	2610	0.234 ug/l	99
45) 4-Methyl-2-Pentanone	7.45	43	4689	0.994 ug/l #	84
46) t-1,4-Dichloro-2-butene	10.49	75	2025	1.063 ug/l #	40
47) Methyl methacrylate	6.61	69	1016	0.288 ug/l #	75

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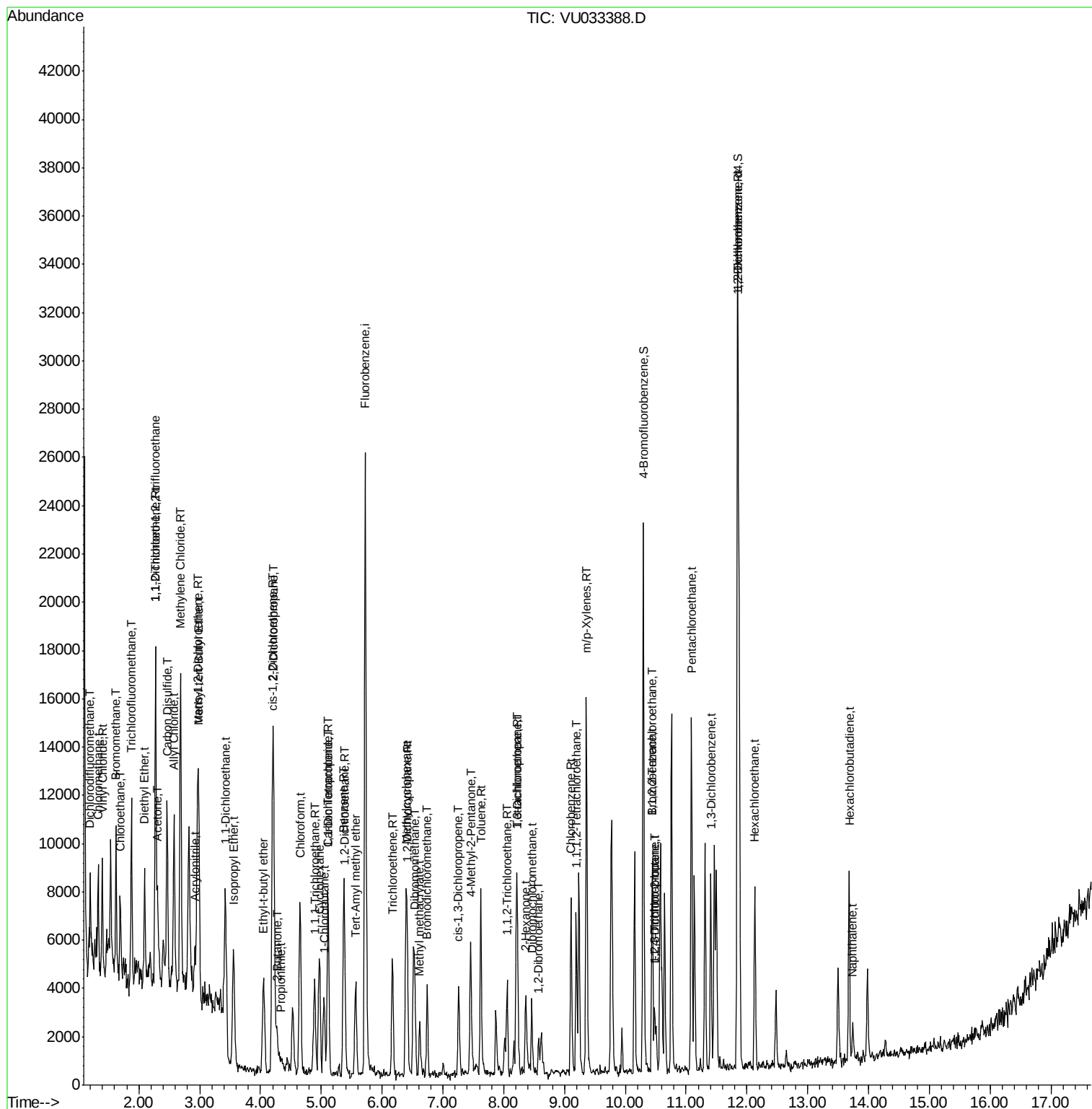
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Toluene	7.62	92	3481	0.201	ug/l	99
51) cis-1,3-Dichloropropene	7.26	75	2281	0.208	ug/l	97
52) 1,1,2-Trichloroethane	8.05	97	1417	0.229	ug/l	88
53) 1,3-Dichloropropane	8.23	76	2160	0.207	ug/l	97
54) 2-Hexanone	8.36	43	2814	0.847	ug/l	81
55) Dibromochloromethane	8.46	129	1571	0.218	ug/l	97
56) 1,2-Dibromoethane	8.58	107	1196	0.208	ug/l	100
58) Tetrachloroethene	8.21	164	1756	0.242	ug/l	93
59) Chlorobenzene	9.11	112	4617	0.232	ug/l	93
60) 1,1,1,2-Tetrachloroethane	9.19	131	1837	0.243	ug/l	96
61) Pentachloroethane	11.08	117	1747	0.282	ug/l	92
62) Hexachloroethane	12.13	117	1490	0.248	ug/l	96
64) m/p-Xylenes	9.36	106	4525	0.354	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.44	83	1718	0.210	ug/l #	95
71) 1,2,3-Trichloropropane	10.49	75	2025	0.320	ug/l #	64
72) Bromobenzene	10.45	156	1788	0.216	ug/l	97
82) 1,3-Dichlorobenzene	11.40	146	3861	0.219	ug/l	90
85) 1,2-Dichlorobenzene	11.86	146	3493	0.211	ug/l	98
88) Hexachlorobutadiene	13.68	225	1602	0.264	ug/l	95
89) Naphthalene	13.74	128	2241	0.752	ug/l #	86

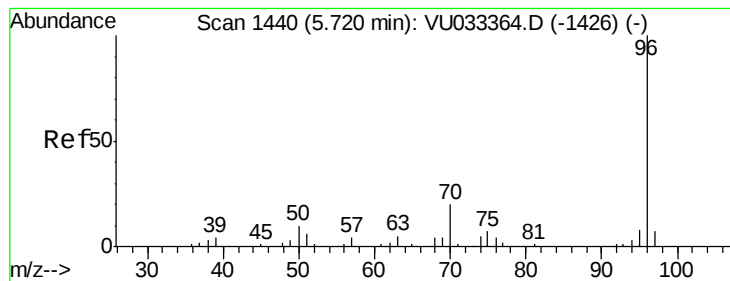
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

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Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 96 Resp: 25362

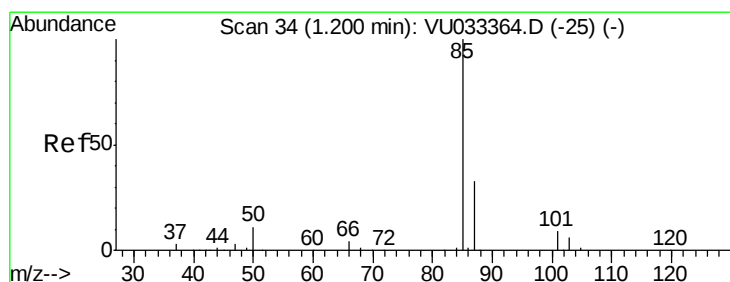
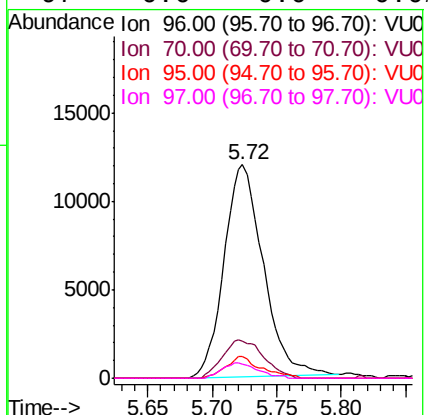
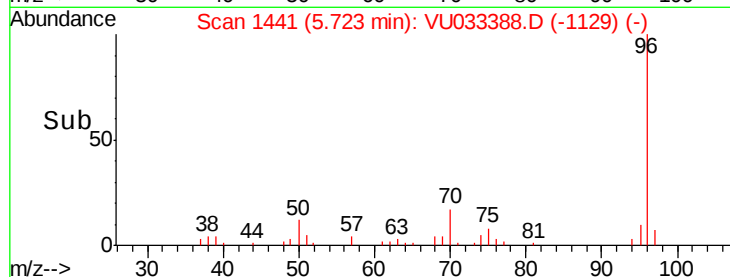
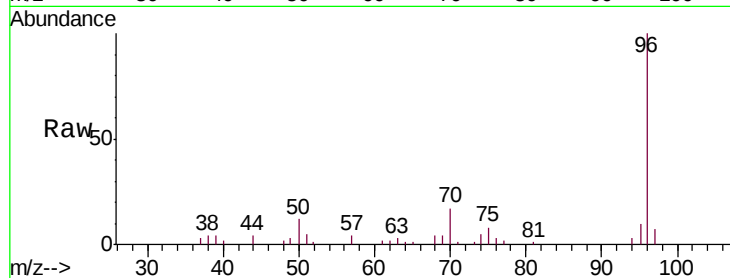
Ion Ratio Lower Upper

96 100

70 18.7 16.4 24.6

95 9.4 6.7 10.1

97 6.6 0.0 0.0#



#2

Dichlorodifluoromethane

Concen: 0.276 ug/l

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033388.D

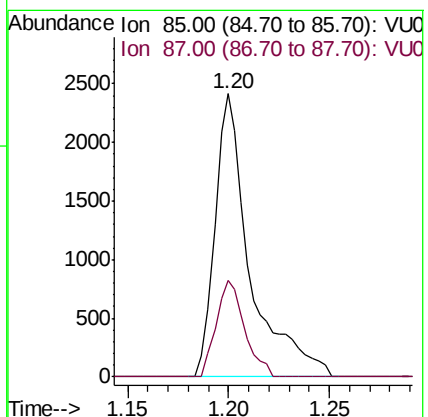
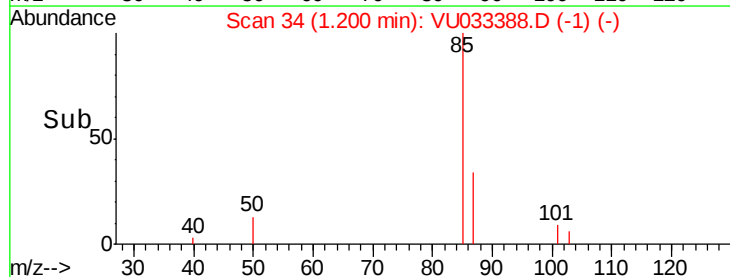
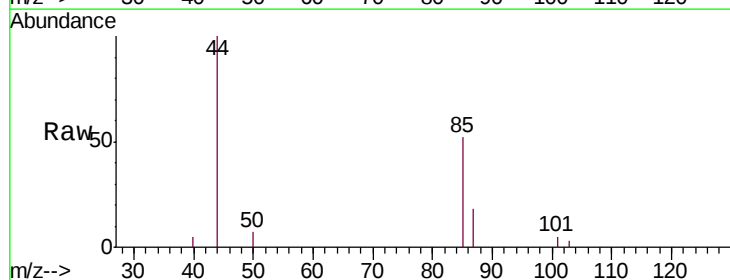
Acq: 24 Jul 2019 12:14

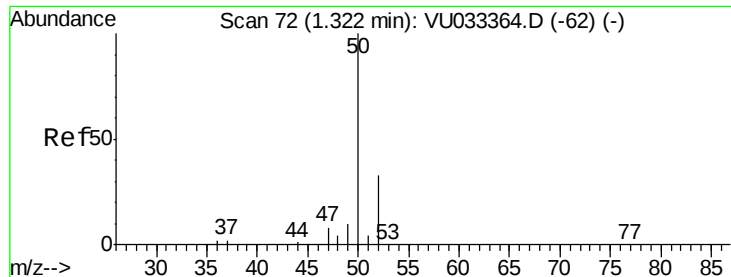
Tgt Ion: 85 Resp: 2900

Ion Ratio Lower Upper

85 100

87 34.2 16.6 49.7





#3

Chloromethane

Concen: 0.274 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

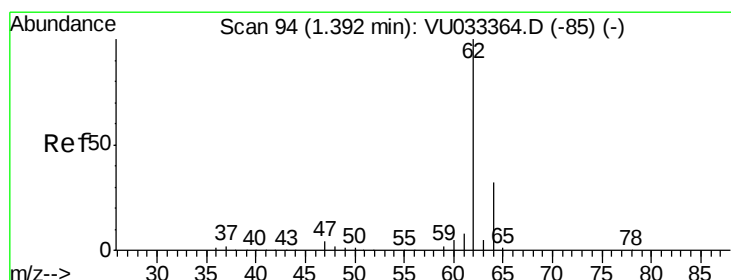
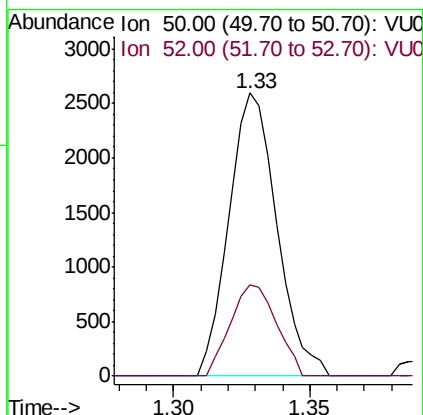
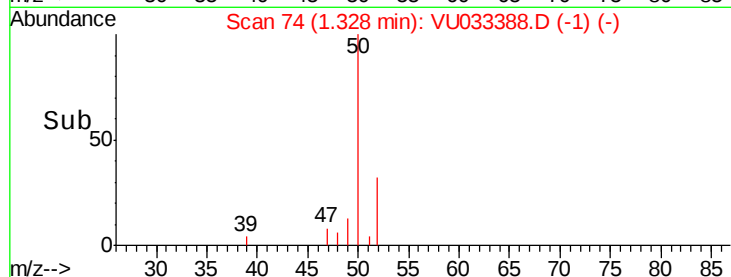
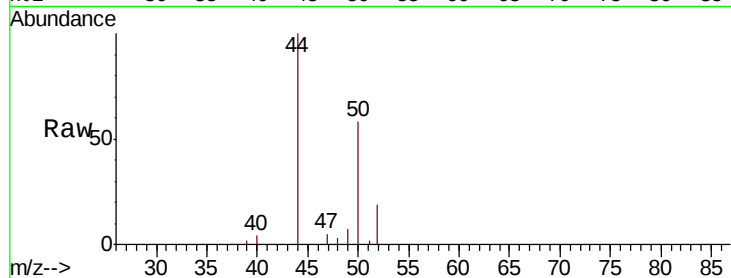
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 50 Resp: 3172

Ion Ratio Lower Upper

50 100

52 32.4 26.1 39.1



#4

Vinyl Chloride

Concen: 0.255 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033388.D

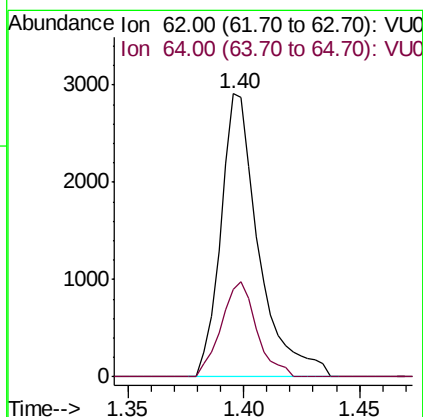
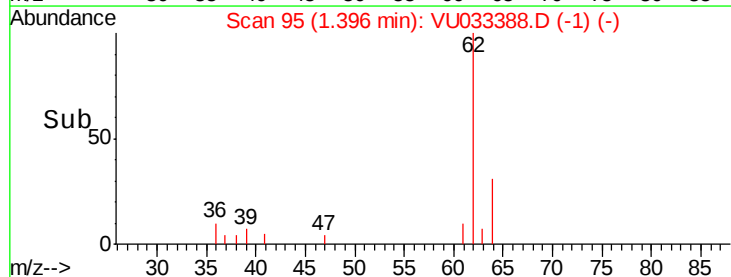
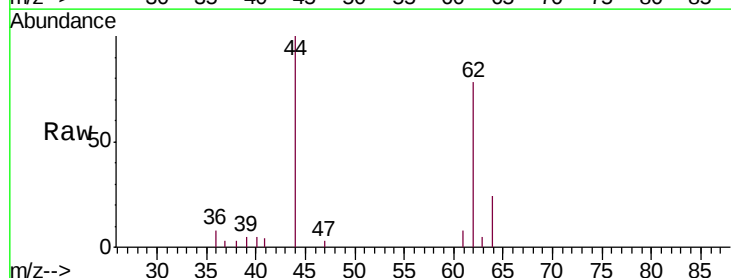
Acq: 24 Jul 2019 12:14

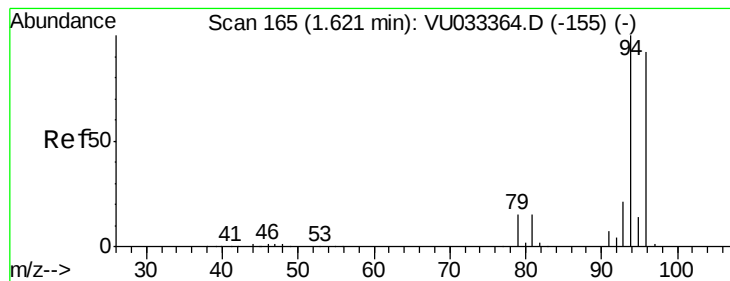
Tgt Ion: 62 Resp: 3293

Ion Ratio Lower Upper

62 100

64 31.0 25.6 38.4





#5

Bromomethane

Concen: 0.352 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

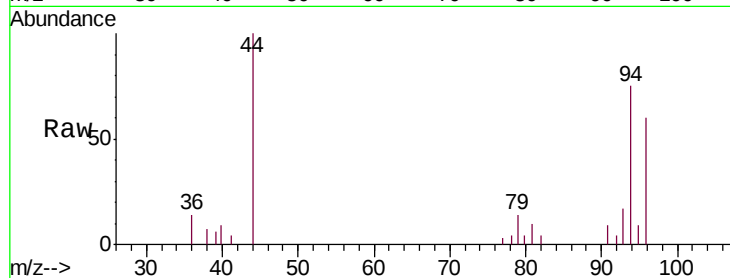
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 94 Resp: 2865

Ion Ratio Lower Upper

94 100

96 80.3 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VU033364.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033388.D (-30) (-)

1.62

2500

2000

1500

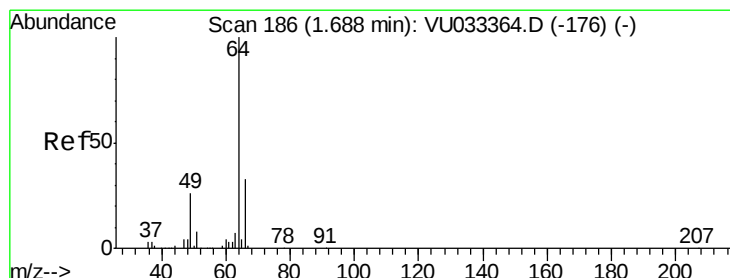
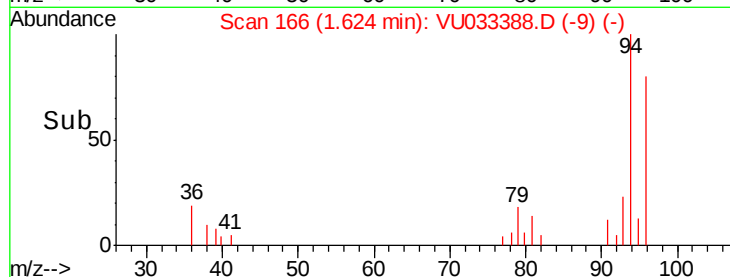
1000

500

0

1.60 1.65

Time-->



#6

Chloroethane

Concen: 0.236 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033388.D

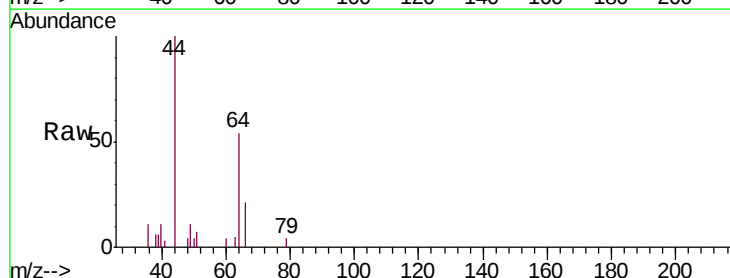
Acq: 24 Jul 2019 12:14

Tgt Ion: 64 Resp: 2140

Ion Ratio Lower Upper

64 100

66 38.2 26.4 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU033364.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033388.D (-30) (-)

1.69

2000

1500

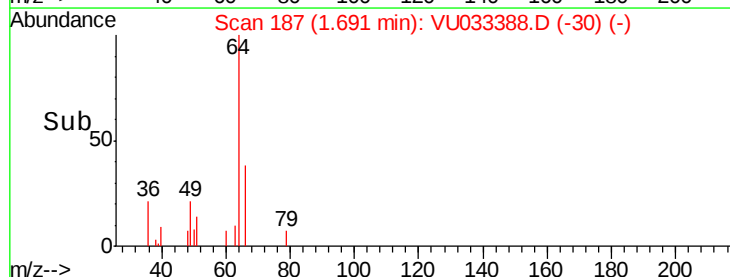
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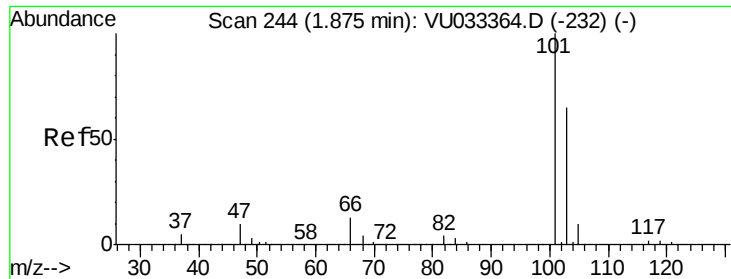
500

0

1.65 1.70

Time-->



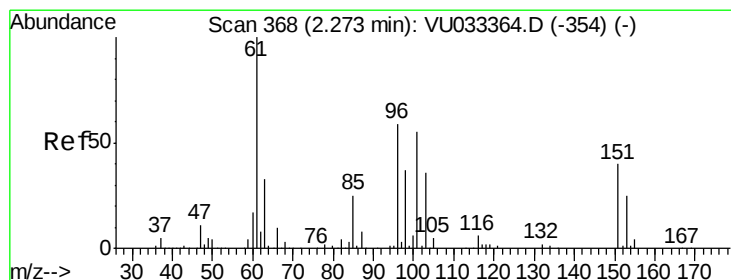
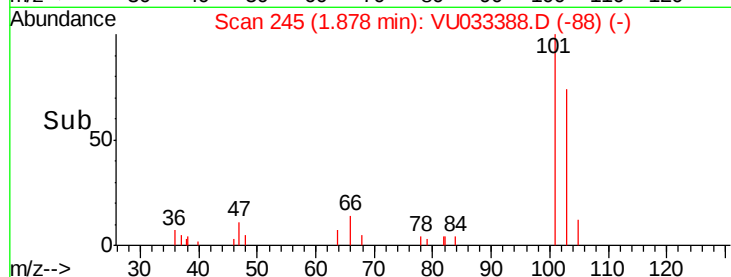
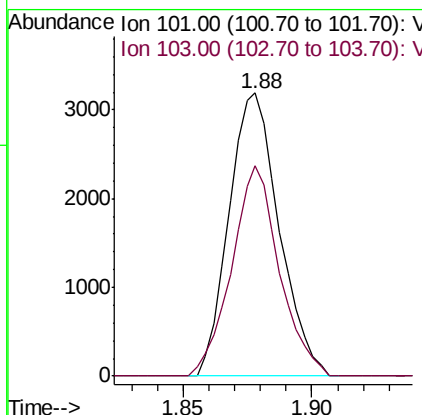
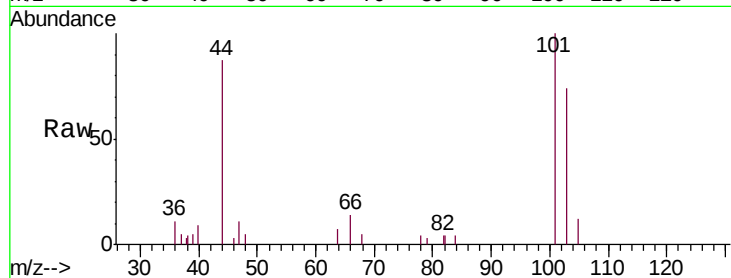


#7

Trichlorofluoromethane
Concen: 0.243 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU033388.D
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MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

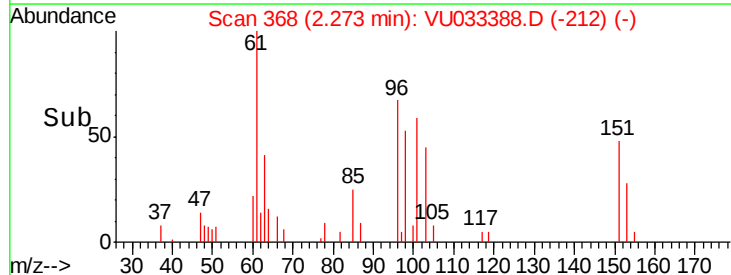
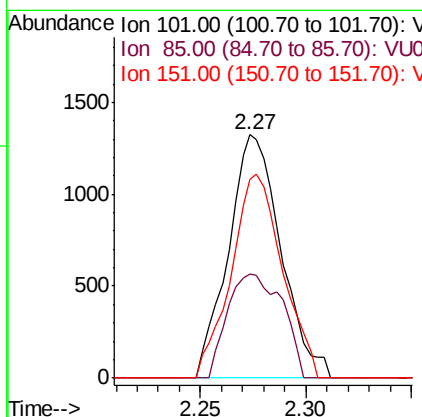
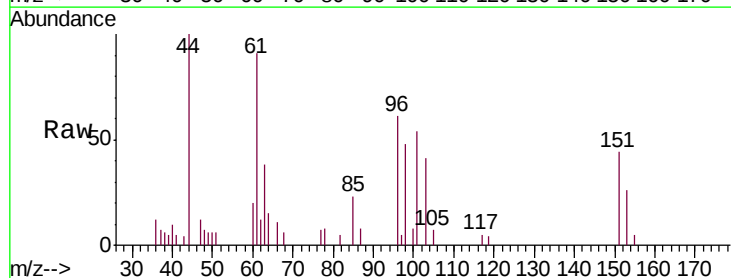
Tgt Ion:101 Resp: 4318
Ion Ratio Lower Upper
101 100
103 74.3 52.2 78.2

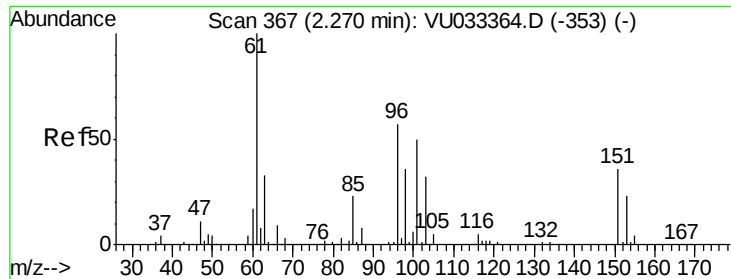


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.250 ug/l
RT: 2.27 min Scan# 368
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion:101 Resp: 2287
Ion Ratio Lower Upper
101 100
85 44.7 37.5 56.3
151 81.8 58.3 87.5





#9

1,1-Dichloroethene

Concen: 0.279 ug/l

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

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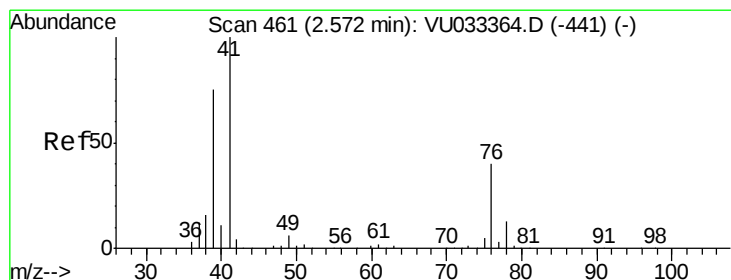
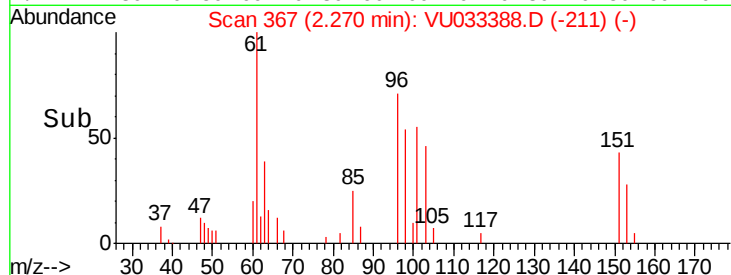
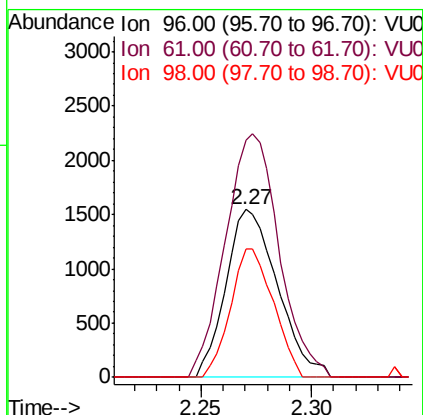
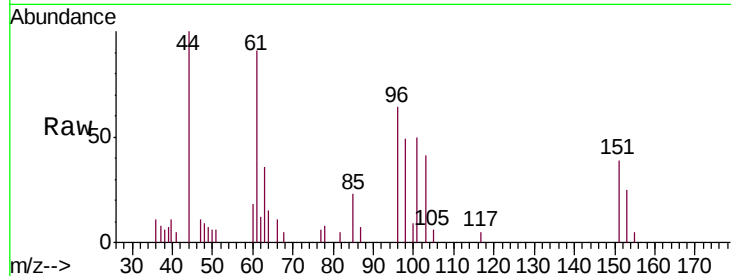
Tgt Ion: 96 Resp: 2517

Ion Ratio Lower Upper

96 100

61 141.8 0.0 525.6

98 76.6 0.0 126.4



#11

Allyl Chloride

Concen: 0.269 ug/l

RT: 2.58 min Scan# 463

Delta R.T. 0.01 min

Lab File: VU033388.D

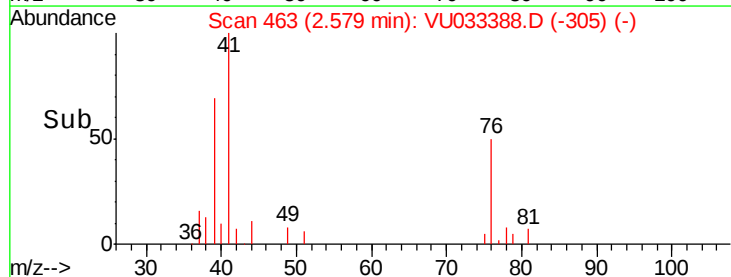
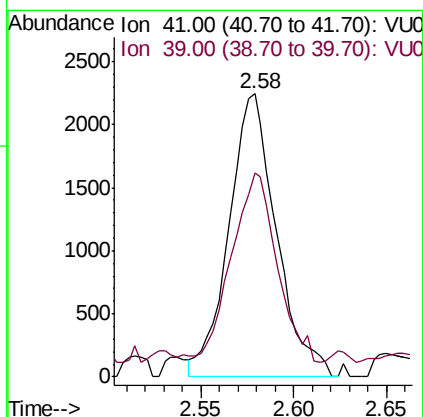
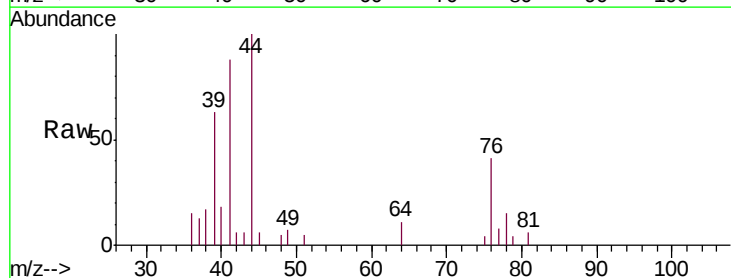
Acq: 24 Jul 2019 12:14

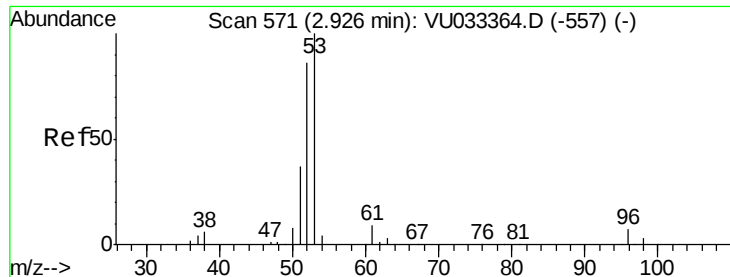
Tgt Ion: 41 Resp: 3999

Ion Ratio Lower Upper

41 100

39 63.5 58.7 88.1

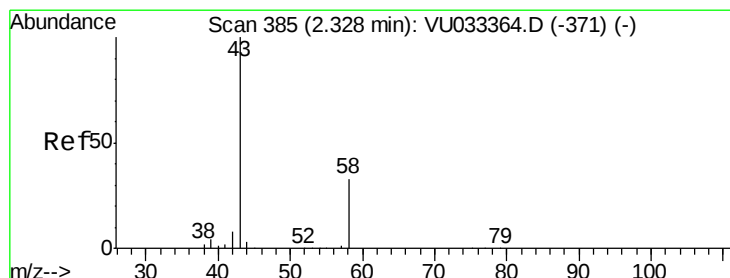
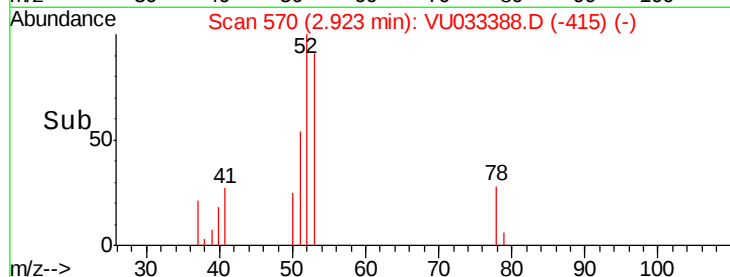
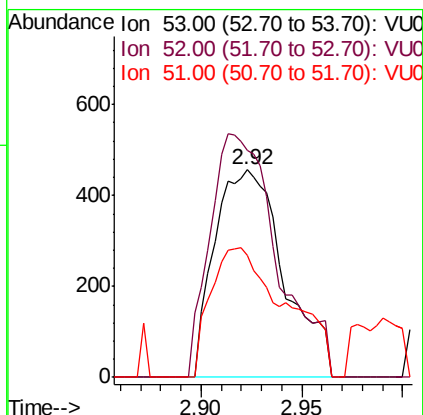
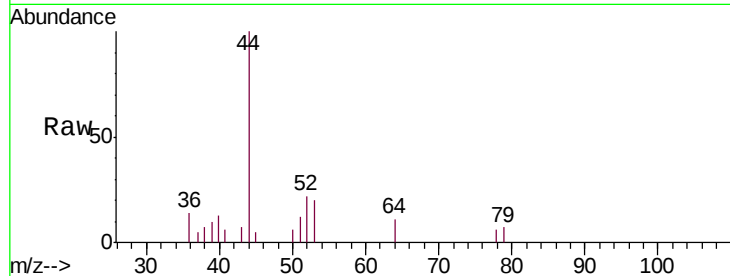




#12
Acrylonitrile
Concen: 0.434 ug/l
RT: 2.92 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

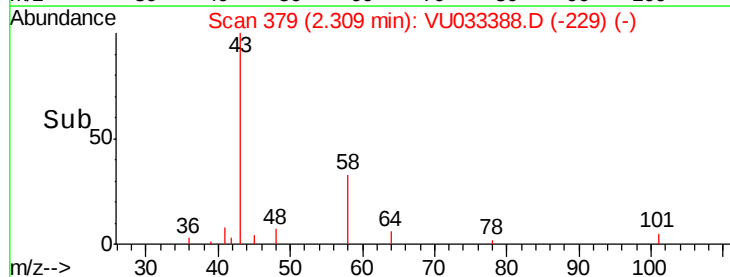
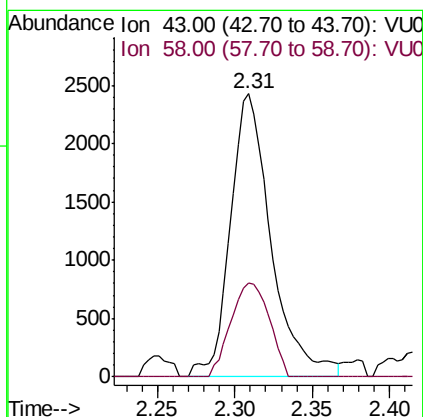
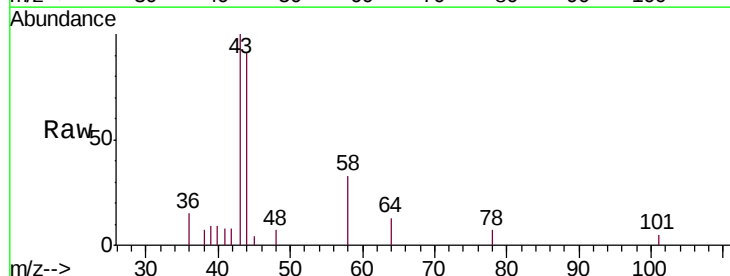
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

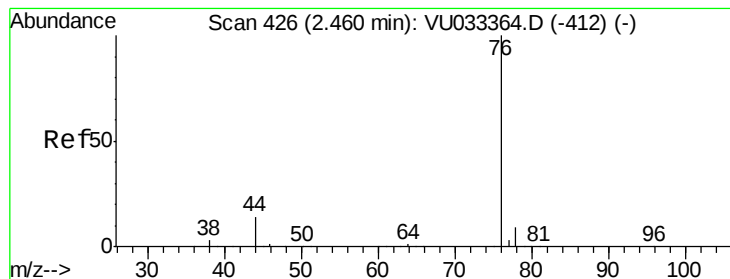
Tgt Ion: 53 Resp: 1091
Ion Ratio Lower Upper
53 100
52 113.9 69.8 104.8#
51 67.7 29.1 43.7#



#13
Acetone
Concen: 2.071 ug/l
RT: 2.31 min Scan# 379
Delta R.T. -0.02 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion: 43 Resp: 4445
Ion Ratio Lower Upper
43 100
58 33.3 26.3 39.5





#14

Carbon Disulfide

Concen: 0.270 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

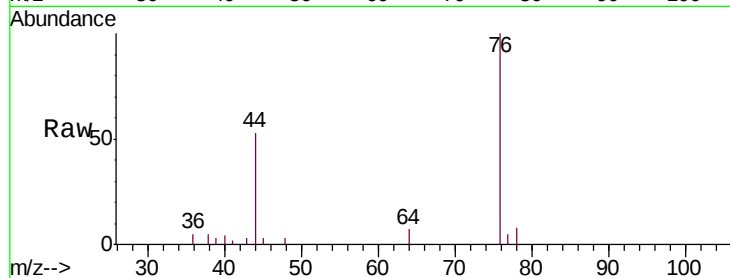
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 76 Resp: 9259

Ion Ratio Lower Upper

76 100

78 7.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU033388.D (-270) (-)

Ion 78.00 (77.70 to 78.70): VU033388.D (-270) (-)

2.46

6000

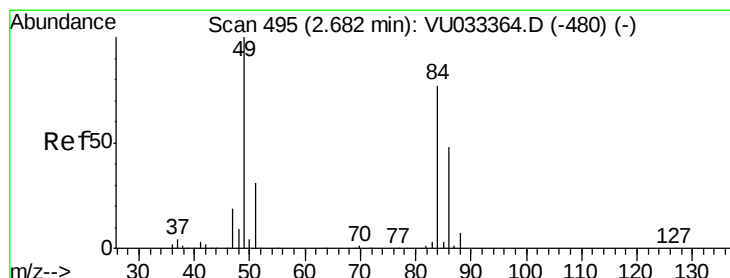
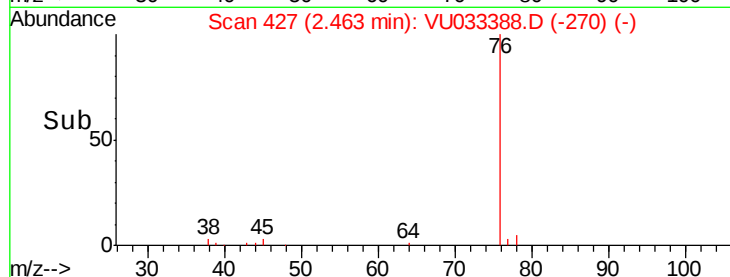
4000

2000

0

Time-->

2.40 2.45 2.50 2.55



#15

Methylene Chloride

Concen: 0.475 ug/l

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Tgt Ion: 84 Resp: 5774

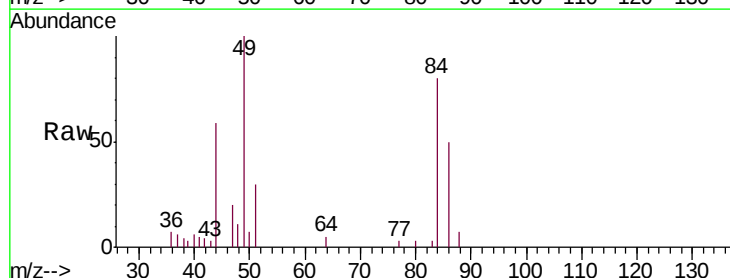
Ion Ratio Lower Upper

84 100

49 125.1 103.5 155.3

51 37.4 0.0 80.4

86 63.1 50.1 75.1



Abundance Ion 84.00 (83.70 to 84.70): VU033388.D (-339) (-)

Ion 49.00 (48.70 to 49.70): VU033388.D (-339) (-)

Ion 51.00 (50.70 to 51.70): VU033388.D (-339) (-)

Ion 86.00 (85.70 to 86.70): VU033388.D (-339) (-)

2.68

6000

5000

4000

3000

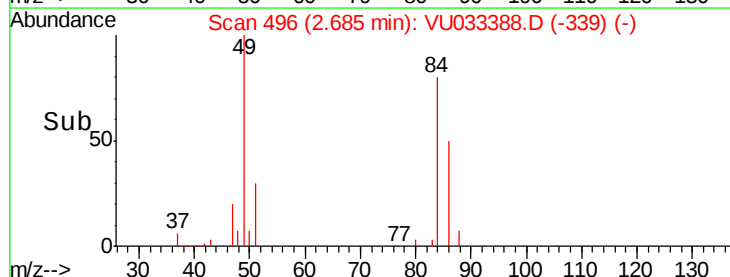
2000

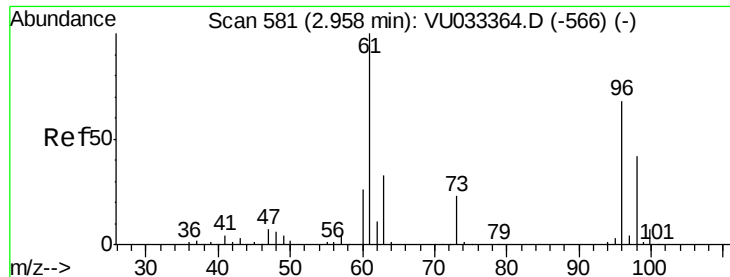
1000

0

Time-->

2.65 2.70 2.75

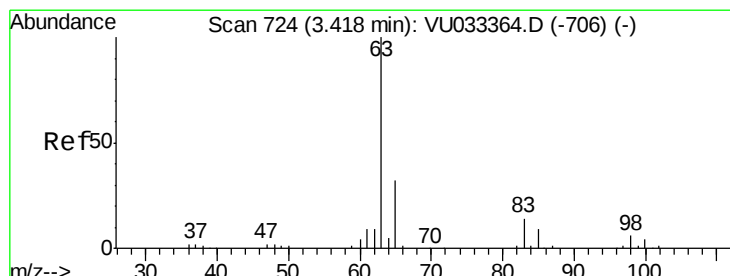
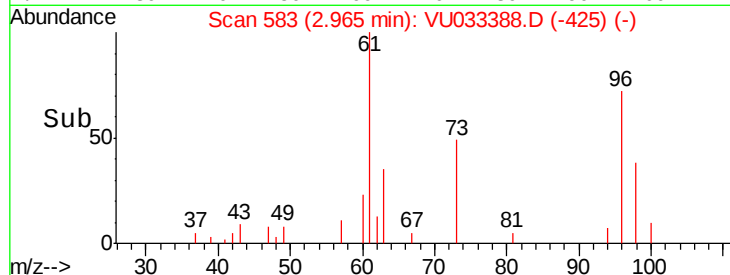
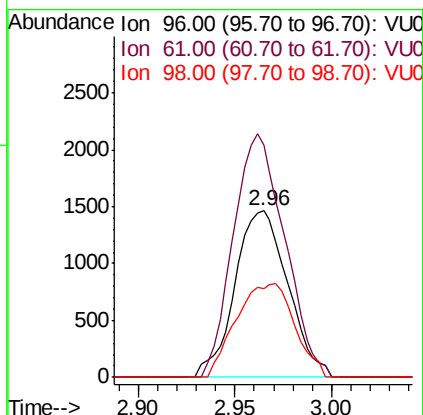
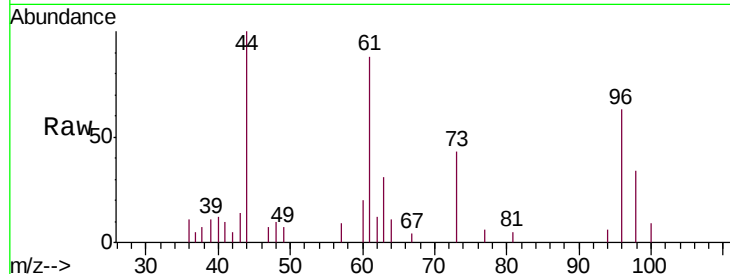




#16
 trans-1,2-Dichloroethene
 Concen: 0.260 ug/l
 RT: 2.96 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

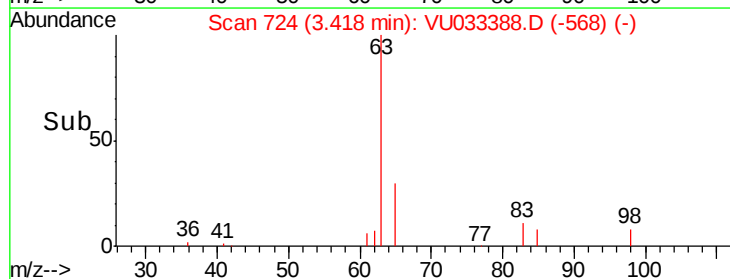
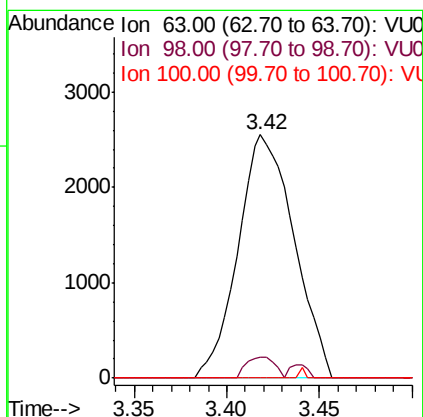
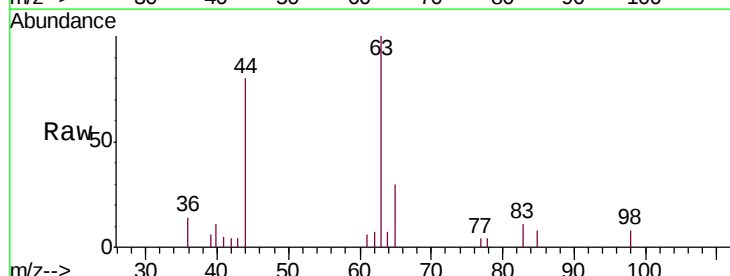
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

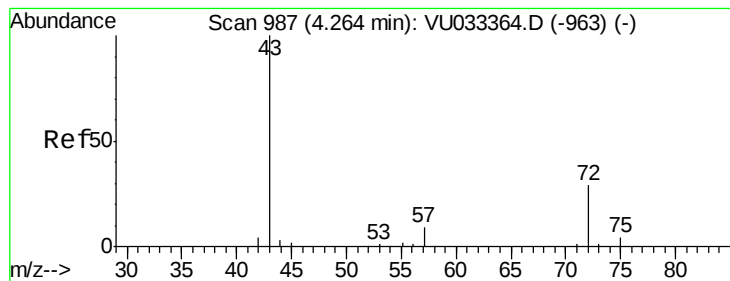
Tgt Ion: 96 Resp: 2784
 Ion Ratio Lower Upper
 96 100
 61 139.6 118.0 177.0
 98 53.5 49.4 74.2



#17
 1,1-Dichloroethane
 Concen: 0.373 ug/l
 RT: 3.42 min Scan# 724
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 63 Resp: 5353
 Ion Ratio Lower Upper
 63 100
 98 8.4 3.2 9.6
 100 0.0 2.1 6.2#





#18

2-Butanone

Concen: 1.121 ug/l

RT: 4.27 min Scan# 990

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

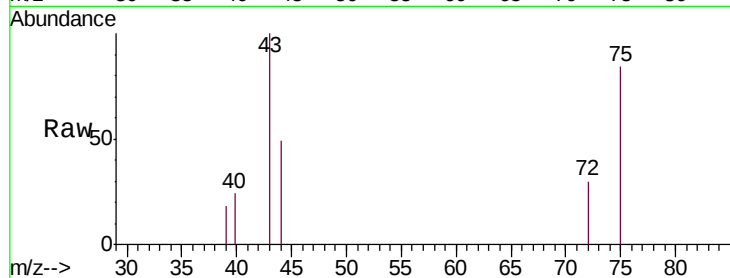
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 43 Resp: 2296

Ion Ratio Lower Upper

43 100

57 0.0 0.0 17.0



Abundance Ion 43.00 (42.70 to 43.70): VU033388.D (-831) (-)

Ion 57.00 (56.70 to 57.70): VU033388.D (-831) (-)

4.27

800

600

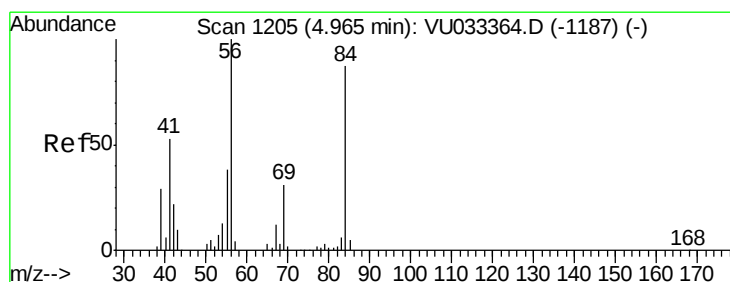
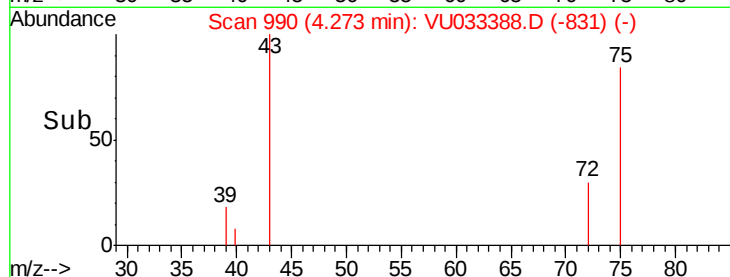
400

200

0

4.20 4.25 4.30 4.35

Time-->



#19

Cyclohexane

Concen: 0.223 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

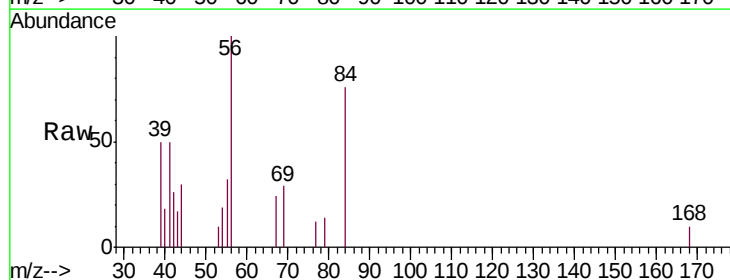
Tgt Ion: 56 Resp: 2355

Ion Ratio Lower Upper

56 100

69 25.3 25.0 37.4

84 82.3 69.8 104.6



Abundance Ion 56.00 (55.70 to 56.70): VU033388.D (-1049) (-)

Ion 69.00 (68.70 to 69.70): VU033388.D (-1049) (-)

Ion 84.00 (83.70 to 84.70): VU033388.D (-1049) (-)

1500

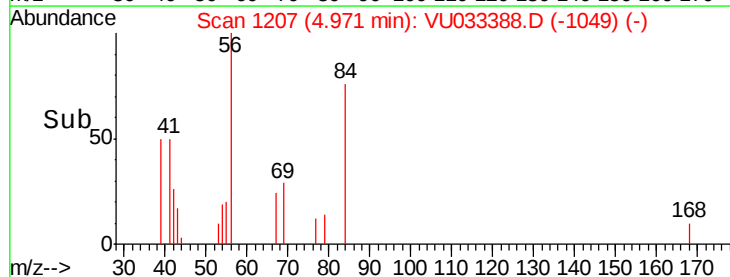
1000

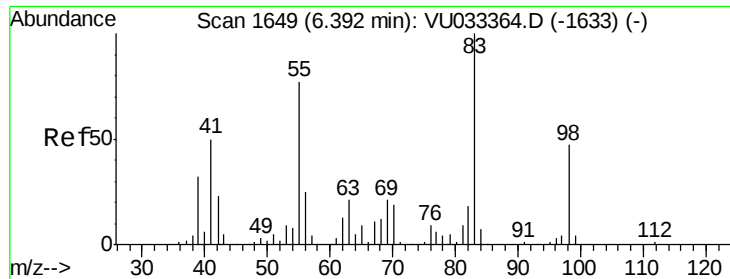
500

0

4.90 4.95 5.00

Time-->

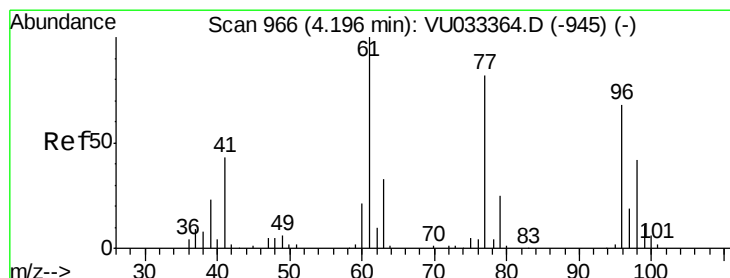
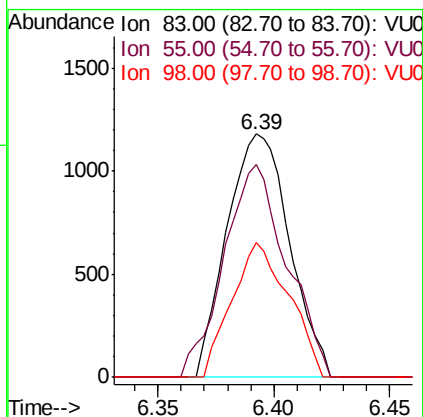
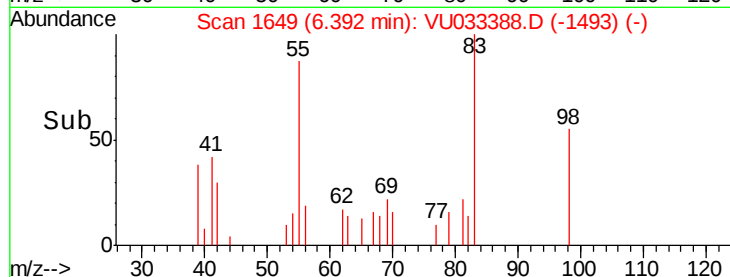
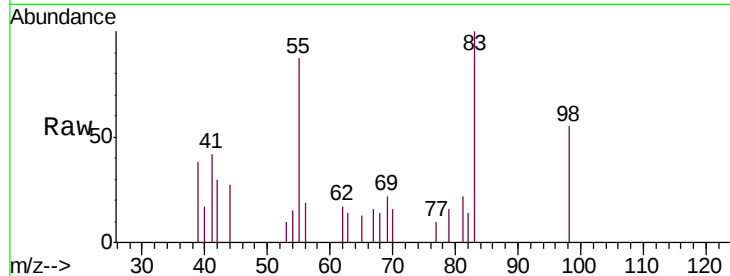




#20
Methylcyclohexane
Concen: 0.209 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

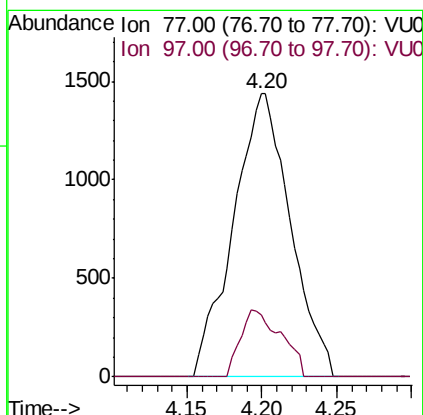
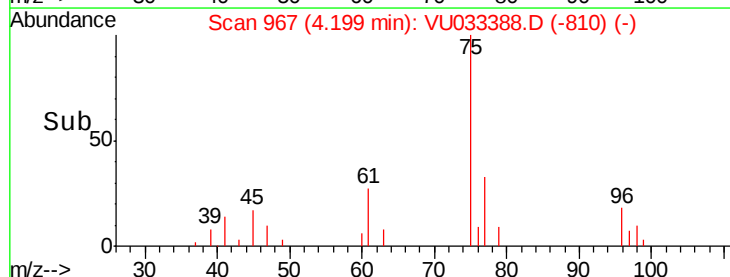
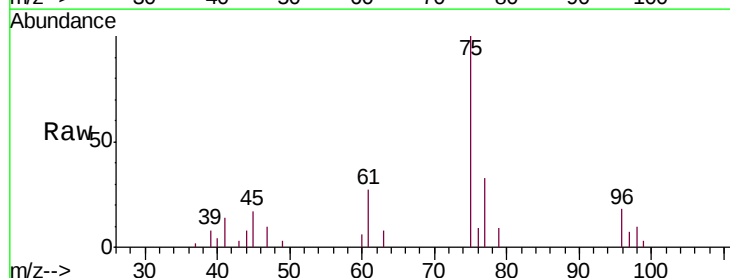
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

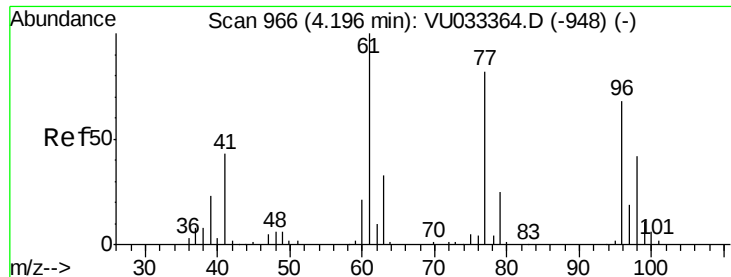
Tgt Ion: 83 Resp: 2214
Ion Ratio Lower Upper
83 100
55 87.8 62.3 93.5
98 50.5 37.4 56.0



#21
2,2-Dichloropropane
Concen: 0.314 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion: 77 Resp: 3821
Ion Ratio Lower Upper
77 100
97 16.8 17.8 26.8#



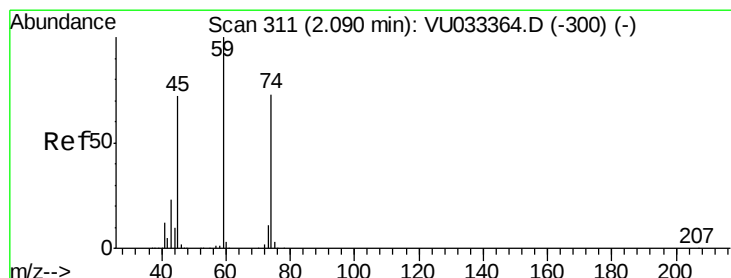
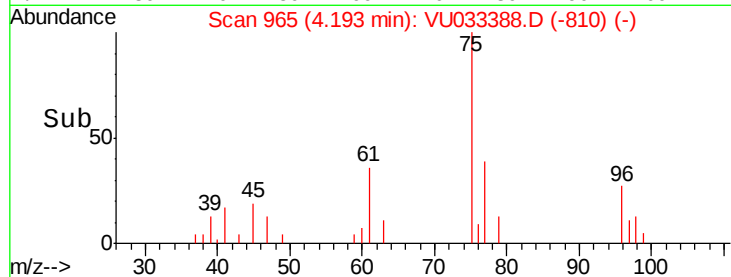
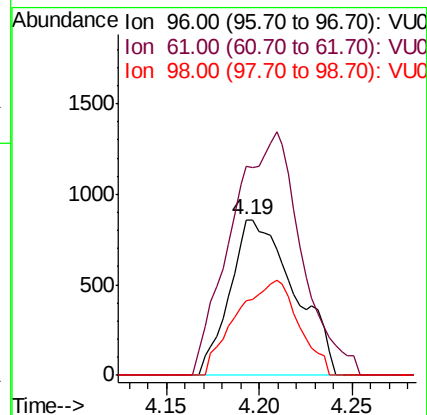
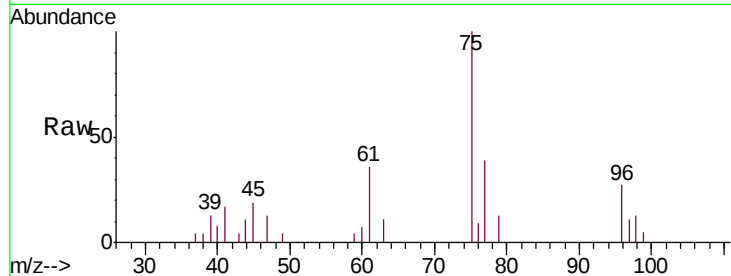


#22

cis-1,2-Dichloroethene
 Concen: 0.256 ug/l
 RT: 4.19 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

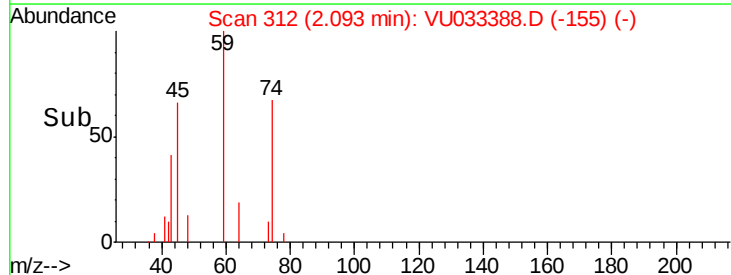
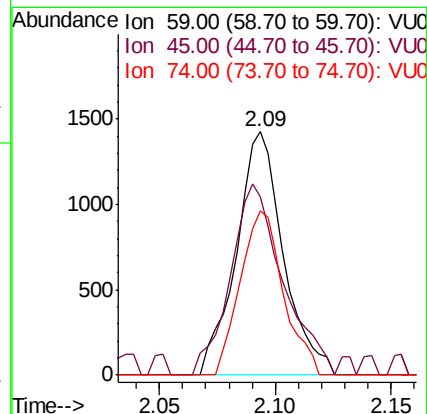
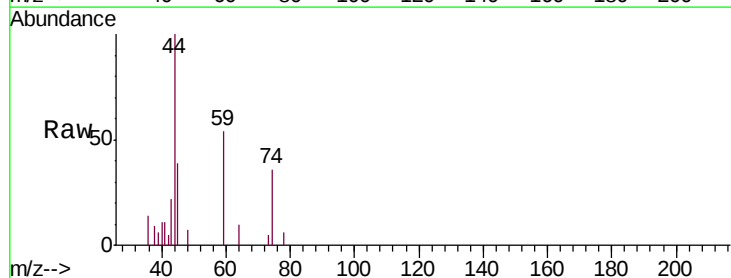
Tgt Ion:	96	Resp:	2077
Ion	Ratio	Lower	Upper
96	100		
61	168.5	0.0	376.3
98	59.1	31.9	95.9

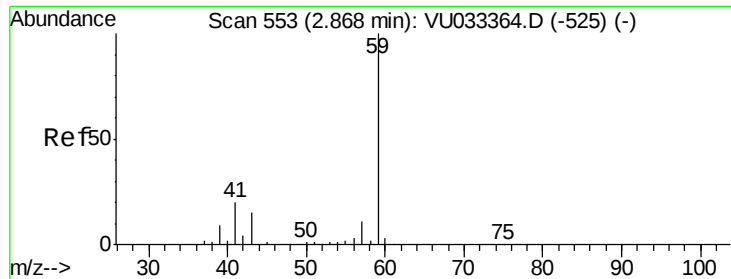


#23

Diethyl Ether
 Concen: 0.258 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion:	59	Resp:	2005
Ion	Ratio	Lower	Upper
59	100		
45	87.8	57.6	86.4#
74	61.9	57.8	86.6



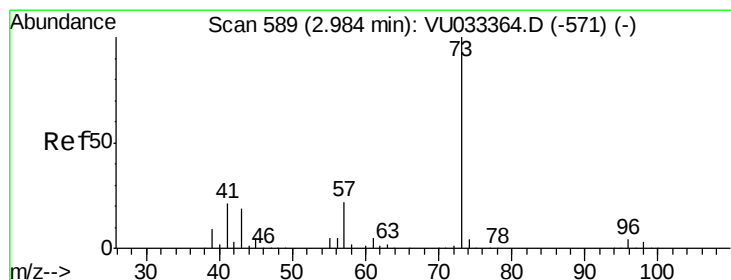
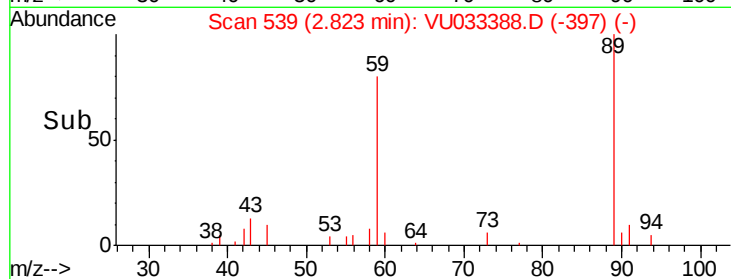
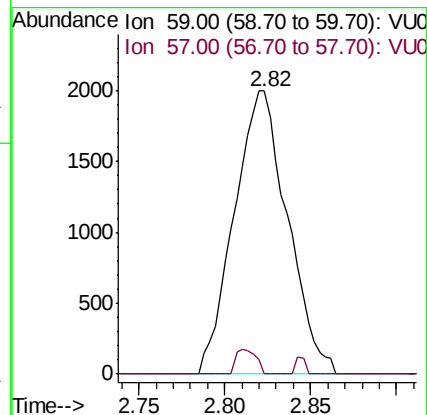
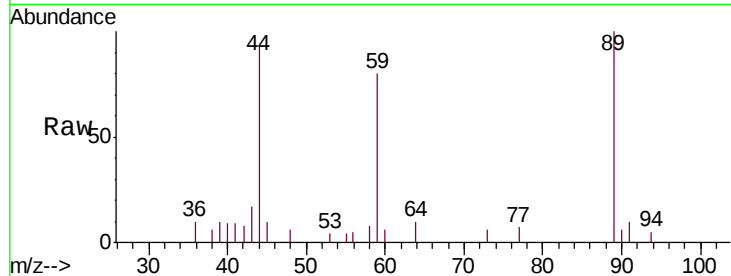


#24

tert-Butyl Alcohol
 Concen: Below Cal
 RT: 2.82 min Scan# 539
 Delta R.T. -0.04 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

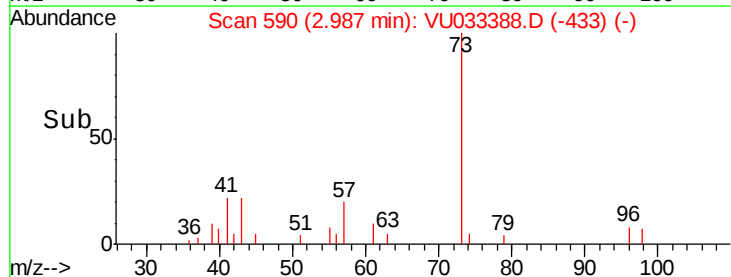
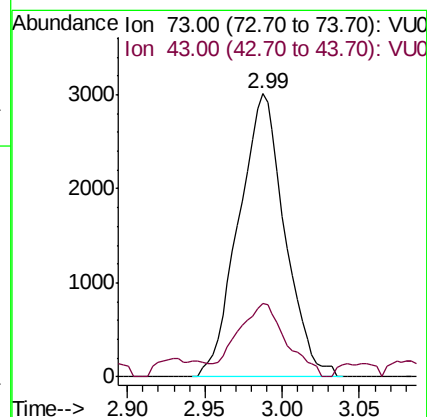
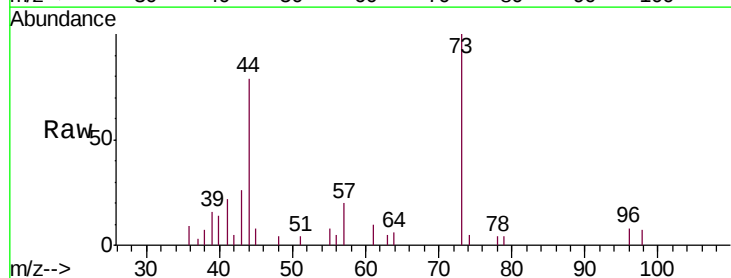
Tgt Ion: 59 Resp: 4306
 Ion Ratio Lower Upper
 59 100
 57 3.3 7.8 11.8#

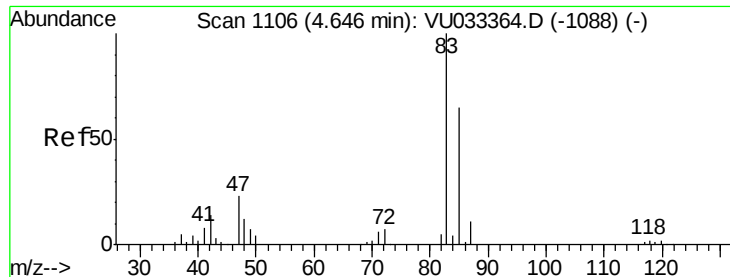


#25

Methyl tert-Butyl Ether
 Concen: 0.241 ug/l
 RT: 2.99 min Scan# 590
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 73 Resp: 6249
 Ion Ratio Lower Upper
 73 100
 43 27.4 16.6 24.8#

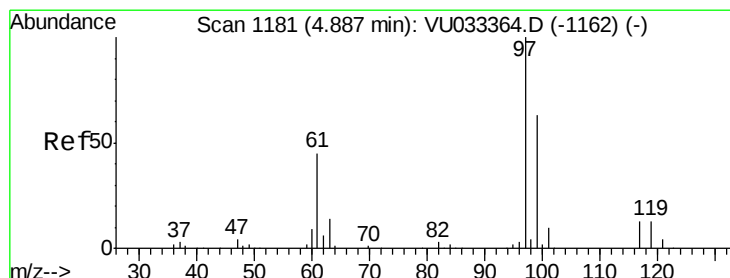
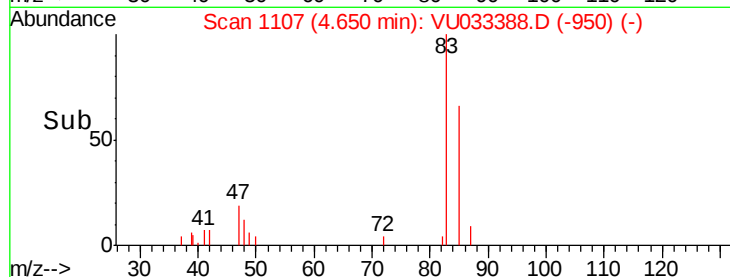
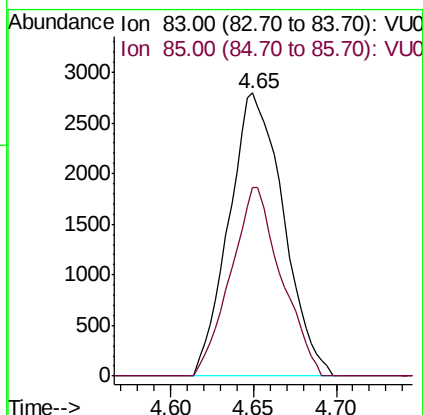
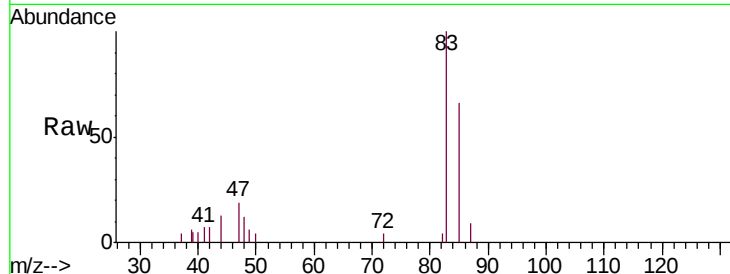




#27
Chloroform
Concen: 0.389 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

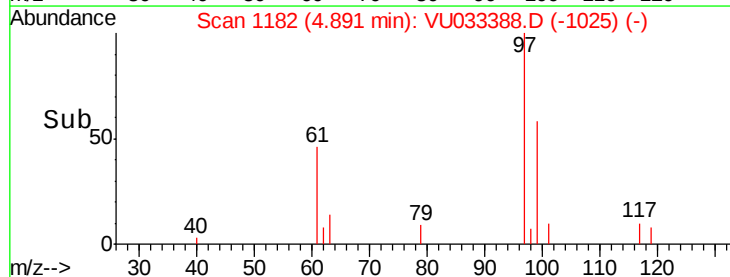
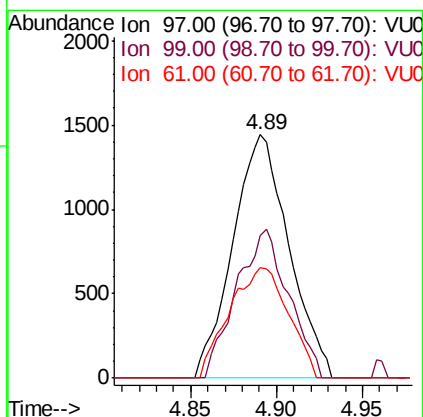
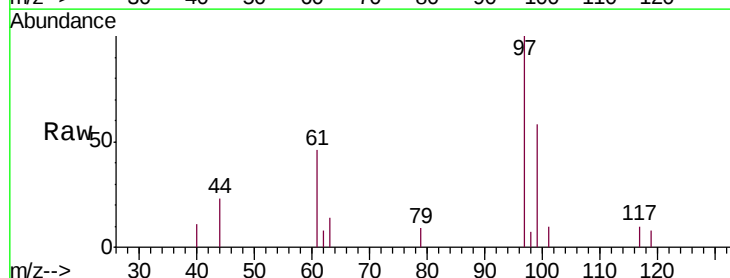
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

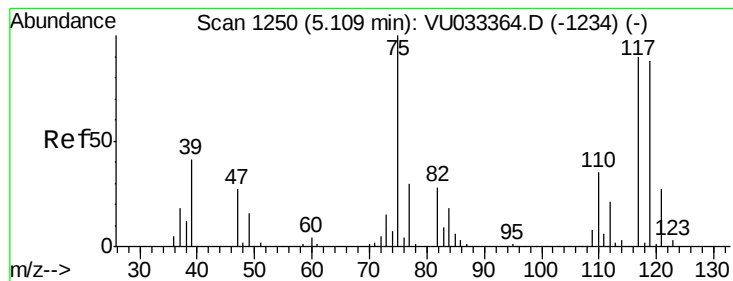
Tgt Ion: 83 Resp: 6381
Ion Ratio Lower Upper
83 100
85 66.4 0.0 129.8



#28
1,1,1-Trichloroethane
Concen: 0.258 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion: 97 Resp: 3276
Ion Ratio Lower Upper
97 100
99 56.7 31.9 95.5
61 47.6 22.7 68.0





#29

1,1-Dichloropropene

Concen: 0.235 ug/l

RT: 5.12 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

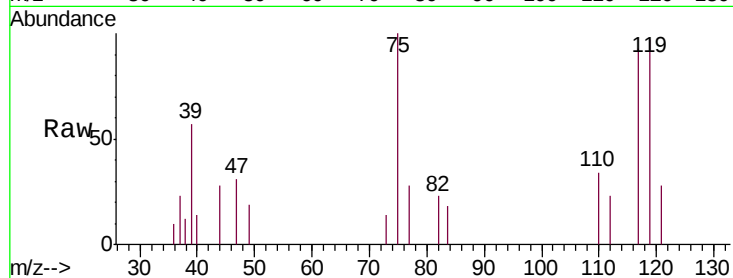
Tgt Ion: 75 Resp: 2461

Ion Ratio Lower Upper

75 100

110 32.1 17.5 52.6

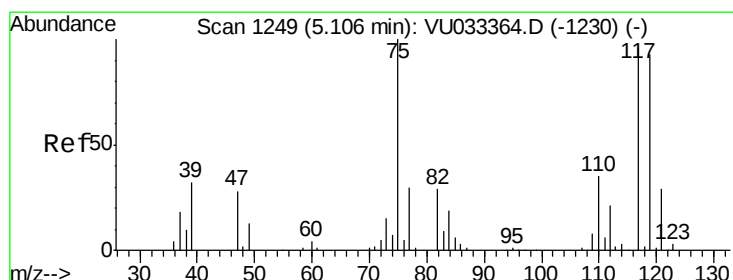
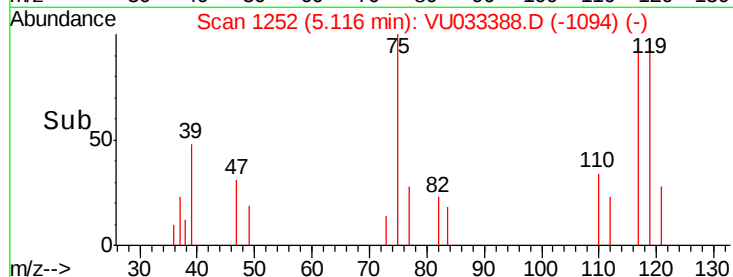
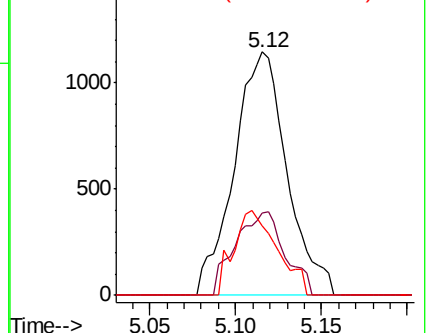
77 28.5 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VU033364.D (-1234) (-)

Ion 110.00 (109.70 to 110.70): VU033364.D (-1234) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-1234) (-)



#30

Carbon Tetrachloride

Concen: 0.254 ug/l

RT: 5.11 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

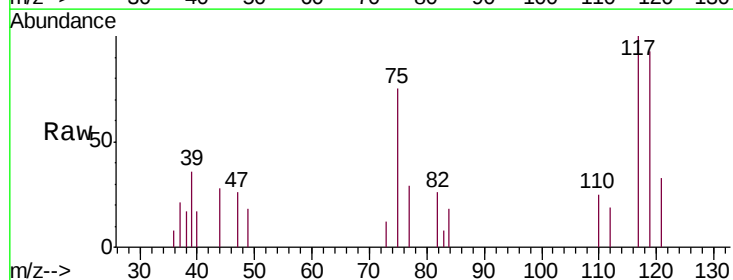
Tgt Ion: 117 Resp: 2838

Ion Ratio Lower Upper

117 100

119 93.2 77.9 116.9

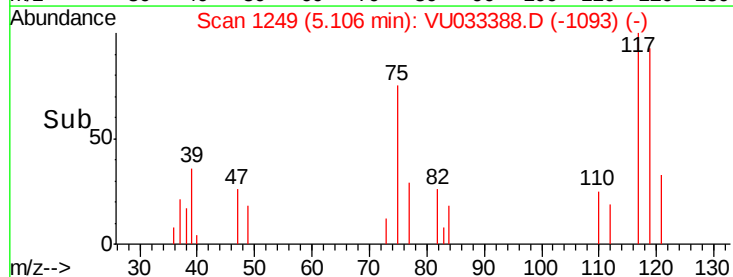
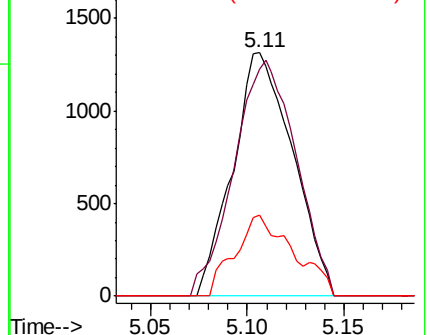
121 33.1 24.0 36.0

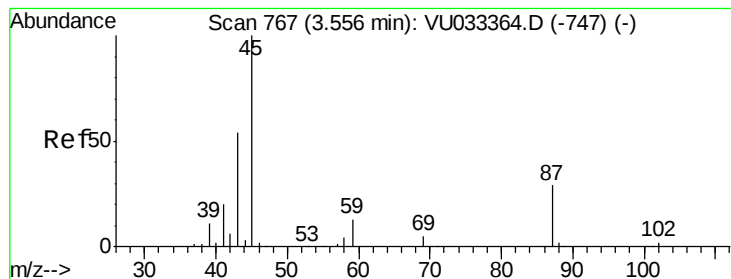


Abundance Ion 117.00 (116.70 to 117.70): VU033364.D (-1230) (-)

Ion 119.00 (118.70 to 119.70): VU033364.D (-1230) (-)

Ion 121.00 (120.70 to 121.70): VU033364.D (-1230) (-)





#31

Isopropyl Ether

Concen: 0.246 ug/l

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

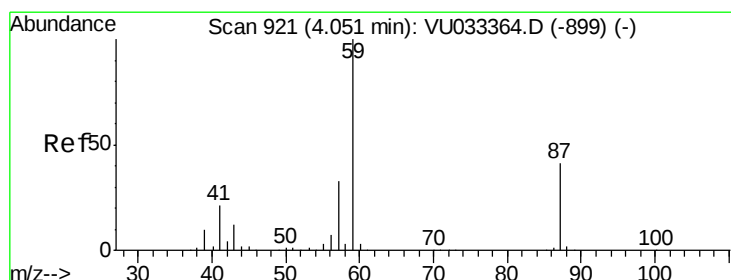
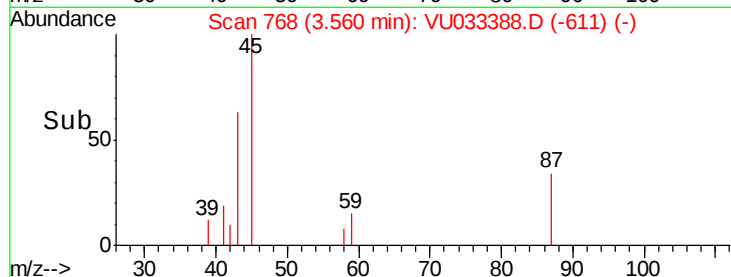
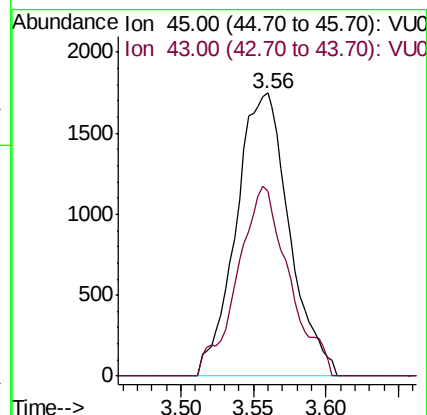
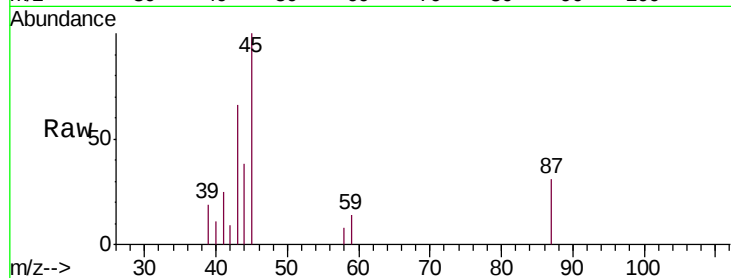
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 45 Resp: 4473

Ion Ratio Lower Upper

45 100

43 65.1 27.8 83.3



#32

Ethyl-t-butyl ether

Concen: 0.220 ug/l

RT: 4.05 min Scan# 920

Delta R.T. -0.00 min

Lab File: VU033388.D

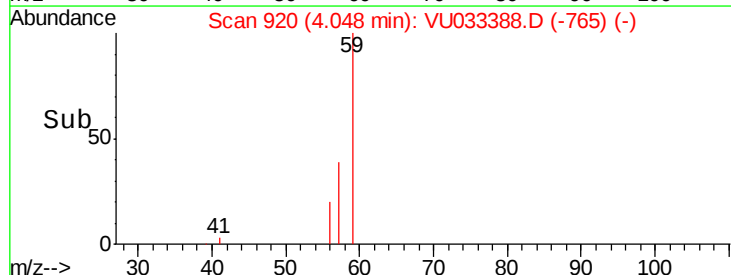
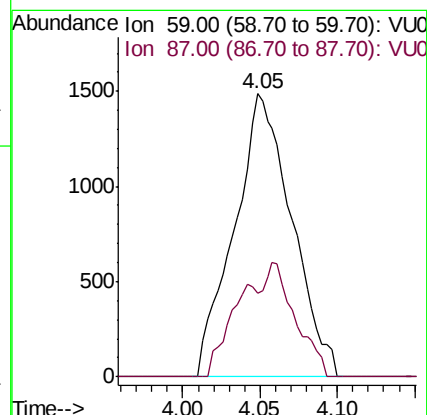
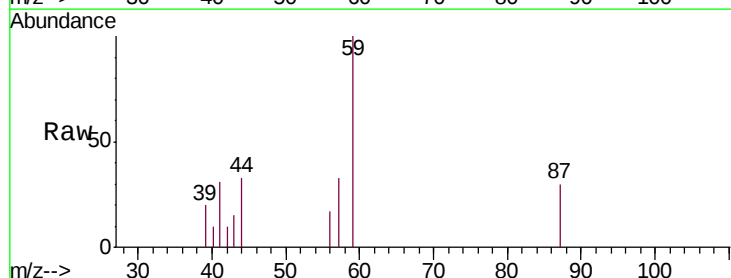
Acq: 24 Jul 2019 12:14

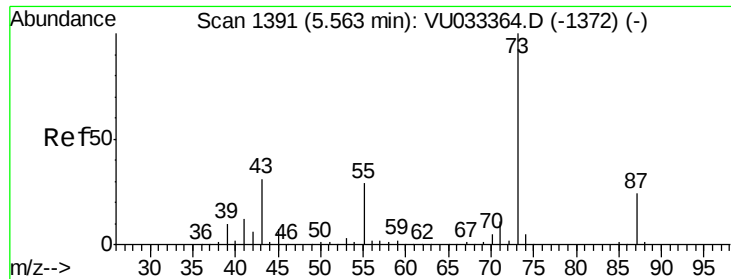
Tgt Ion: 59 Resp: 3841

Ion Ratio Lower Upper

59 100

87 16.6 33.8 50.6#



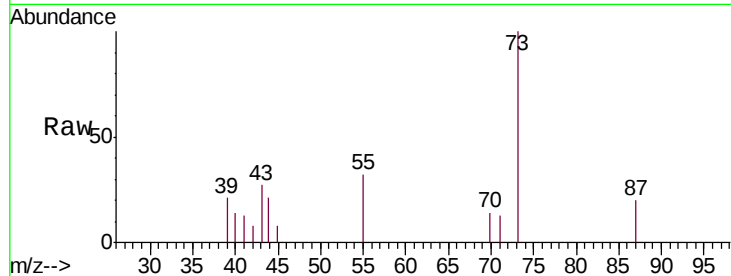


#33

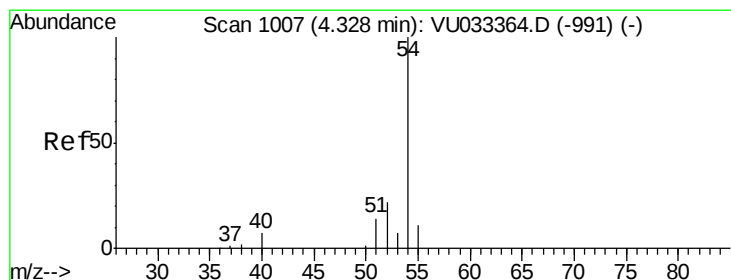
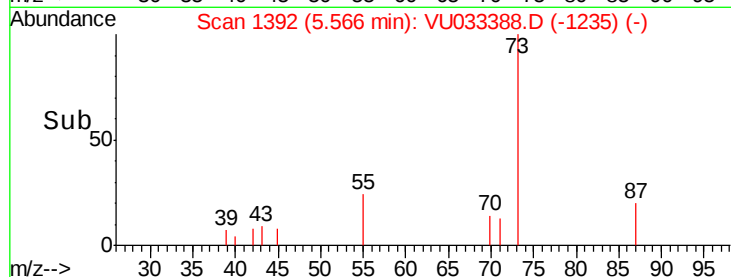
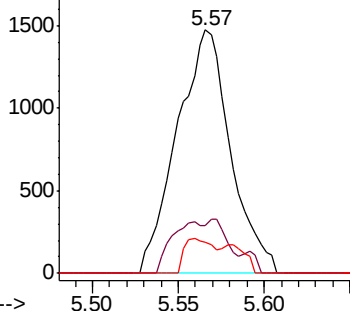
Tert-Amyl methyl ether
 Concen: 0.203 ug/l
 RT: 5.57 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 73 Resp: 3189
 Ion Ratio Lower Upper
 73 100
 87 11.8 18.9 28.3#
 71 7.7 9.3 13.9#



Abundance Ion 73.00 (72.70 to 73.70): VU0
 Ion 87.00 (86.70 to 87.70): VU0
 Ion 71.00 (70.70 to 71.70): VU0

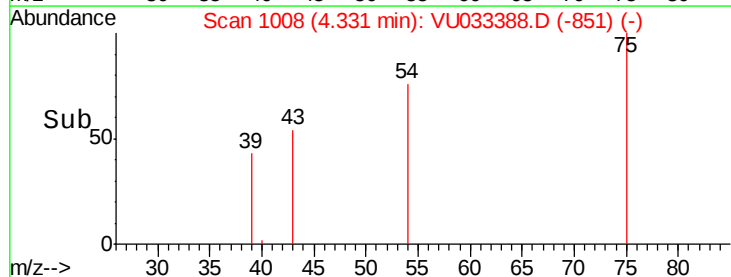
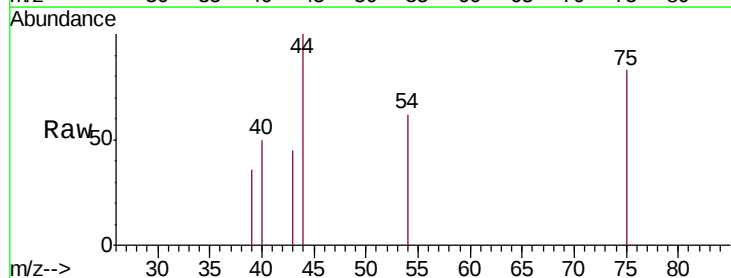
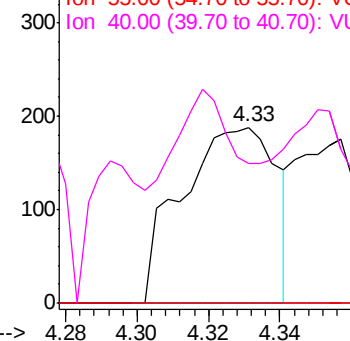


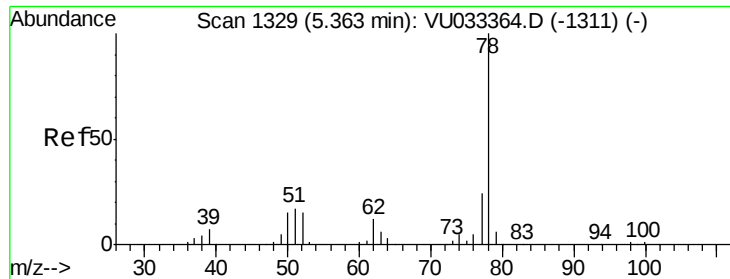
#34

Propionitrile
 Concen: 0.587 ug/l
 RT: 4.33 min Scan# 1008
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 54 Resp: 345
 Ion Ratio Lower Upper
 54 100
 52 0.0 17.1 25.7#
 55 0.0 11.6 17.4#
 40 59.4 3.5 5.3#

Abundance Ion 54.00 (53.70 to 54.70): VU0
 Ion 52.00 (51.70 to 52.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 40.00 (39.70 to 40.70): VU0





#35

Benzene

Concen: 0.235 ug/l

RT: 5.37 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

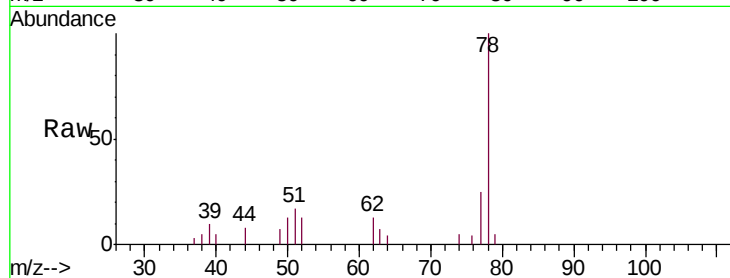
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 78 Resp: 7123

Ion Ratio Lower Upper

78 100

77 25.5 19.4 29.2



Abundance Ion 78.10 (77.80 to 78.80): VU033364.D (-1311) (-)

Ion 77.00 (76.70 to 77.70): VU033388.D (-1173) (-)

5.37

3000

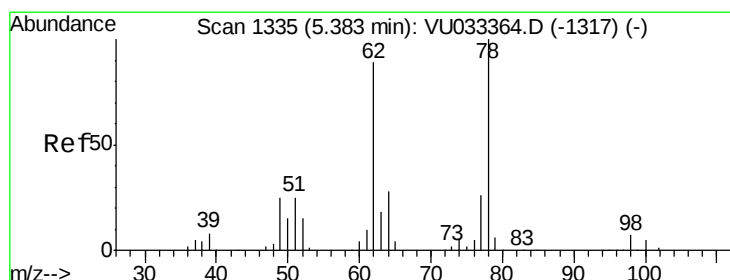
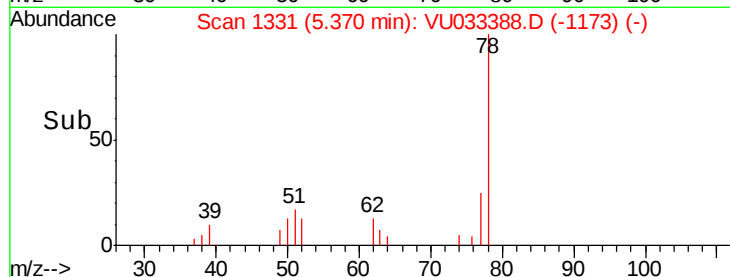
2000

1000

0

5.30 5.35 5.40 5.45

Time-->



#36

1,2-Dichloroethane

Concen: 0.226 ug/l

RT: 5.39 min Scan# 1337

Delta R.T. 0.01 min

Lab File: VU033388.D

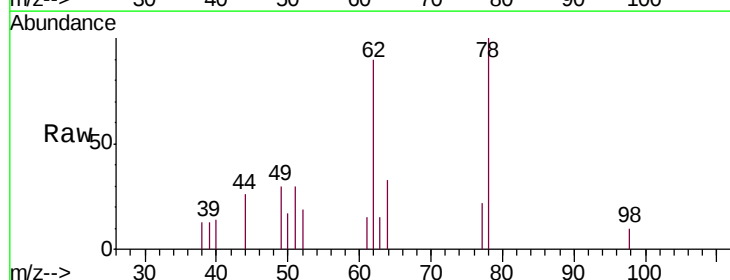
Acq: 24 Jul 2019 12:14

Tgt Ion: 62 Resp: 2282

Ion Ratio Lower Upper

62 100

98 3.4 6.5 9.7#



Abundance Ion 62.00 (61.70 to 62.70): VU033364.D (-1317) (-)

Ion 98.00 (97.70 to 98.70): VU033388.D (-1179) (-)

5.39

1200

1000

800

600

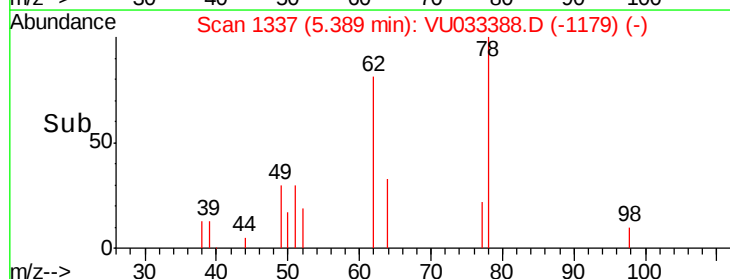
400

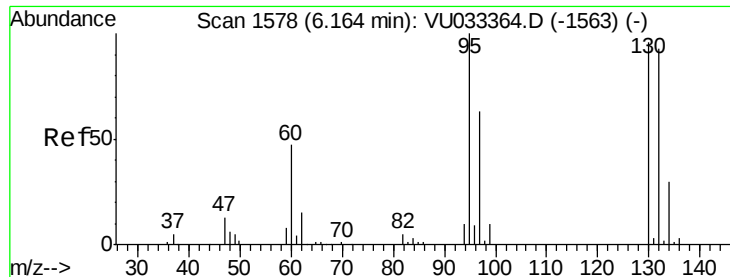
200

0

5.35 5.40 5.45

Time-->





#37

Trichloroethene

Concen: 0.243 ug/l

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

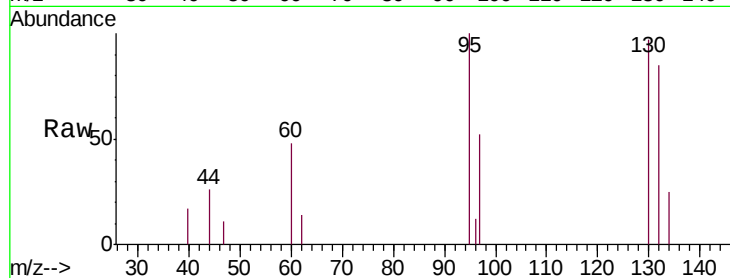
MDL-MDL-WATER-03-QT3-2019

Tgt Ion:130 Resp: 1942

Ion Ratio Lower Upper

130 100

95 102.8 83.4 125.0



Abundance Ion 129.90 (129.60 to 130.60): VU033364.D (-1563) (-)

Ion 94.90 (94.60 to 95.60): VU033364.D (-1563) (-)

6.17

1200

1000

800

600

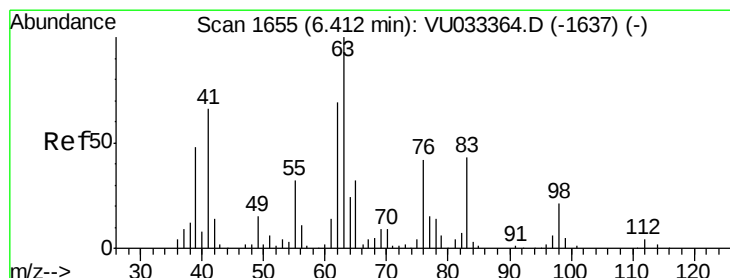
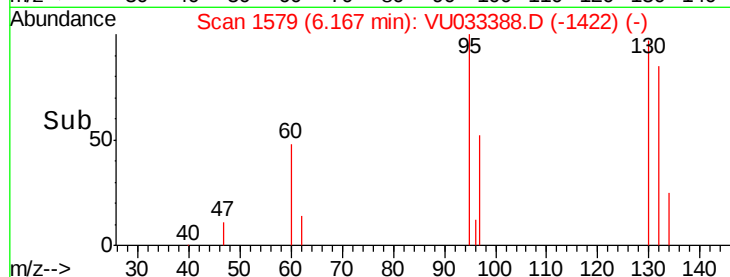
400

200

0

6.15 6.20

Time-->



#38

1,2-Dichloropropane

Concen: 0.221 ug/l

RT: 6.42 min Scan# 1657

Delta R.T. 0.01 min

Lab File: VU033388.D

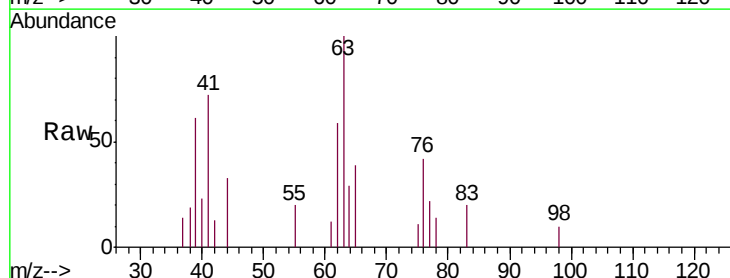
Acq: 24 Jul 2019 12:14

Tgt Ion: 63 Resp: 1847

Ion Ratio Lower Upper

63 100

65 39.0 25.7 38.5#



Abundance Ion 63.00 (62.70 to 63.70): VU033364.D (-1637) (-)

Ion 65.00 (64.70 to 65.70): VU033364.D (-1637) (-)

6.42

1000

800

600

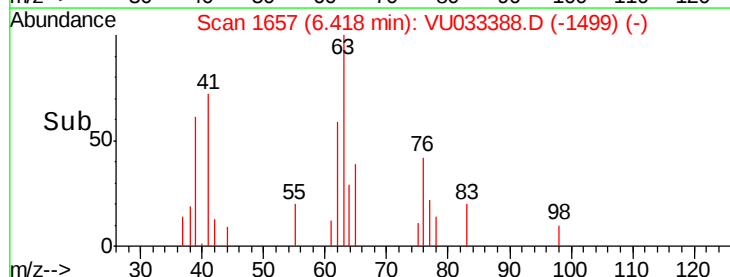
400

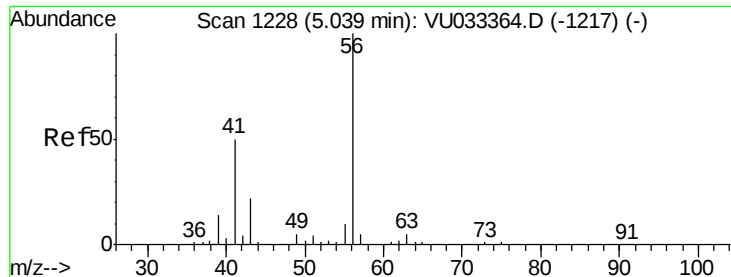
200

0

6.40 6.45

Time-->

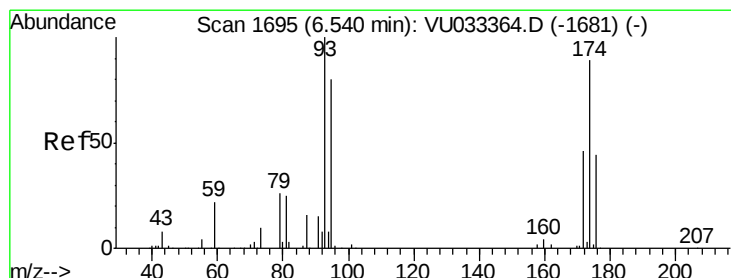
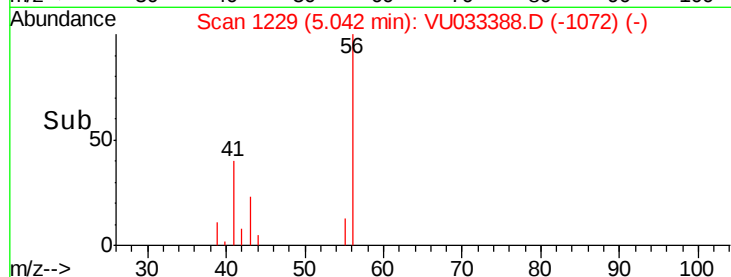
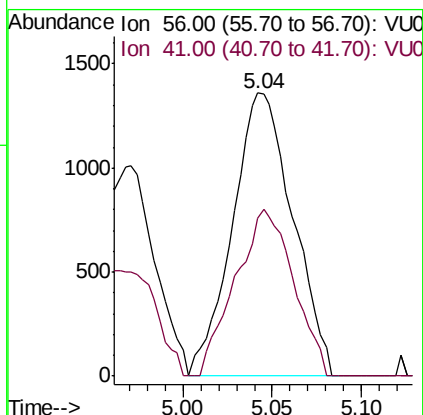
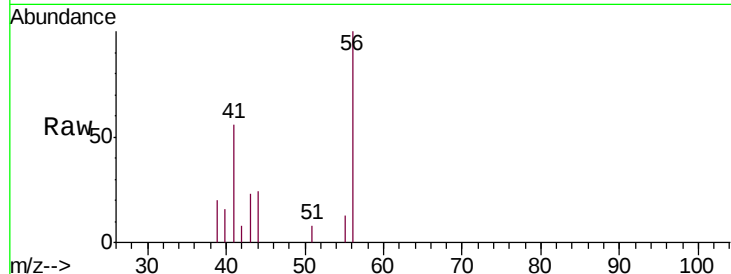




#42
1-Chlorobutane
Concen: 0.229 ug/l
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

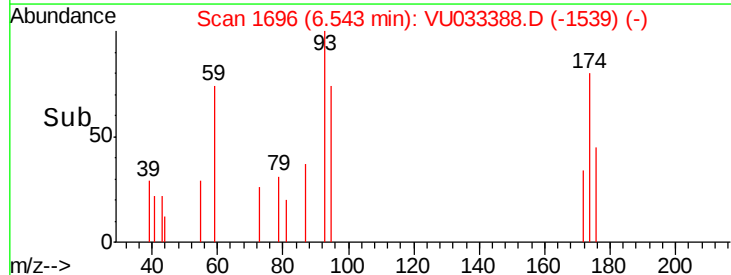
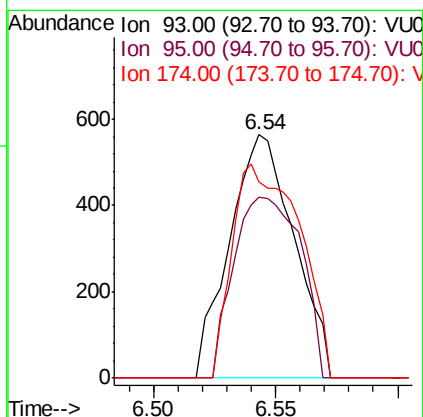
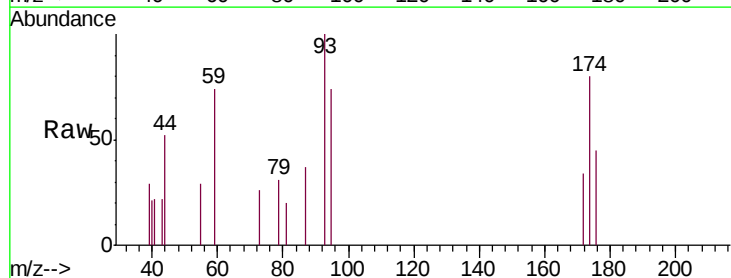
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

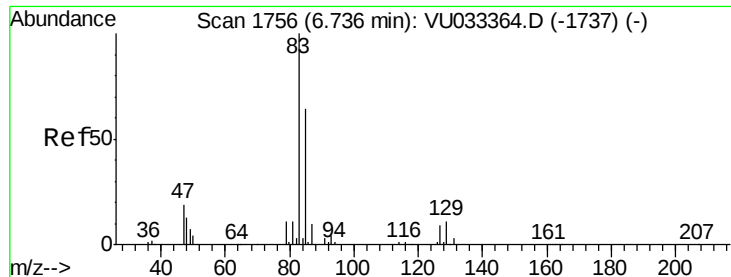
Tgt Ion: 56 Resp: 3214
Ion Ratio Lower Upper
56 100
41 56.8 25.7 77.1



#43
Dibromomethane
Concen: 0.223 ug/l
RT: 6.54 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion: 93 Resp: 1032
Ion Ratio Lower Upper
93 100
95 77.6 65.3 97.9
174 92.0 70.7 106.1





#44

Bromodichloromethane

Concen: 0.234 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

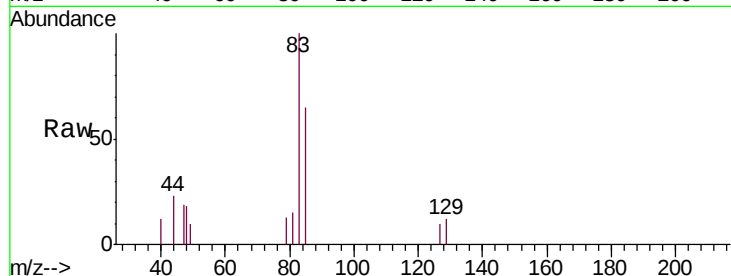
Tgt Ion: 83 Resp: 2610

Ion Ratio Lower Upper

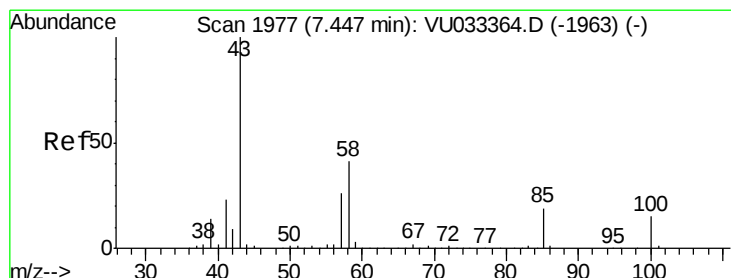
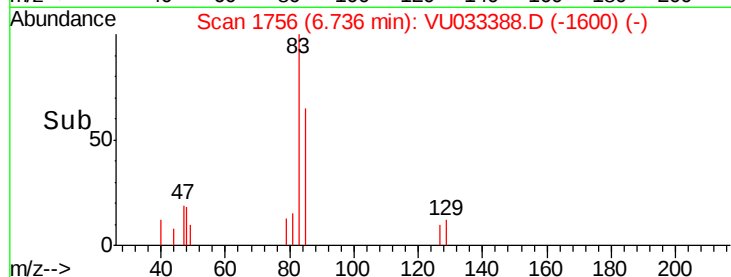
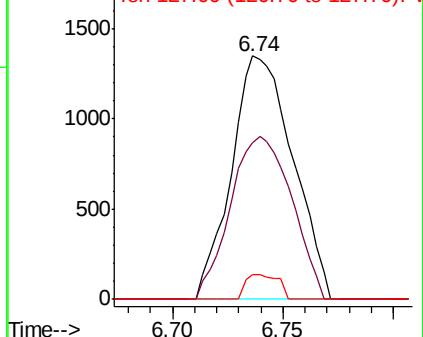
83 100

85 64.6 51.1 76.7

127 10.0 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 127.00 (126.70 to 127.70): V



#45

4-Methyl-2-Pentanone

Concen: 0.994 ug/l

RT: 7.45 min Scan# 1979

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

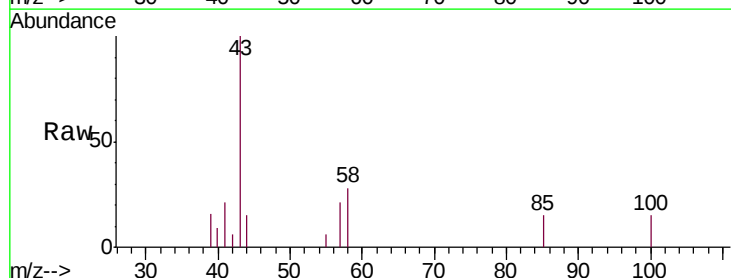
Tgt Ion: 43 Resp: 4689

Ion Ratio Lower Upper

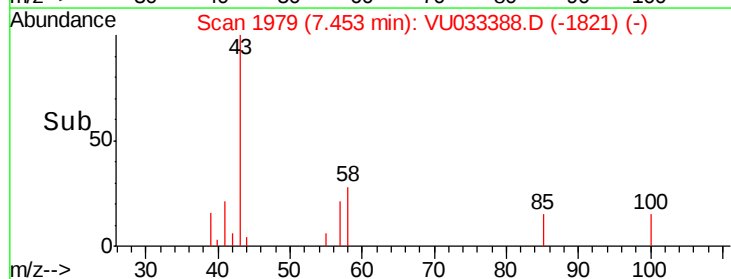
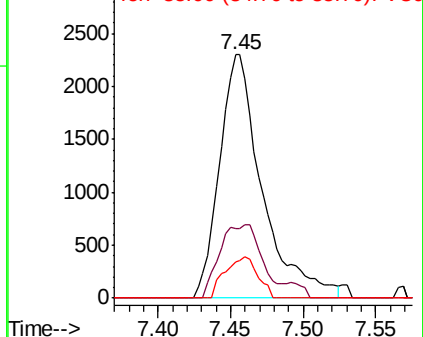
43 100

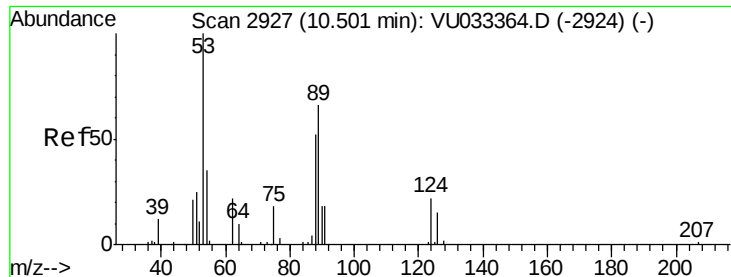
58 29.7 20.3 60.8

85 12.9 15.0 22.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

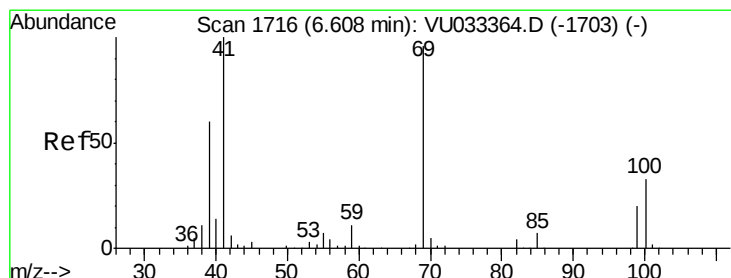
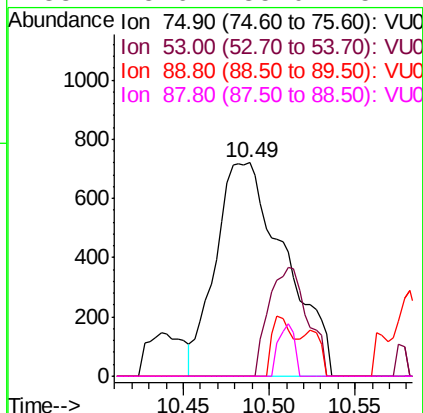
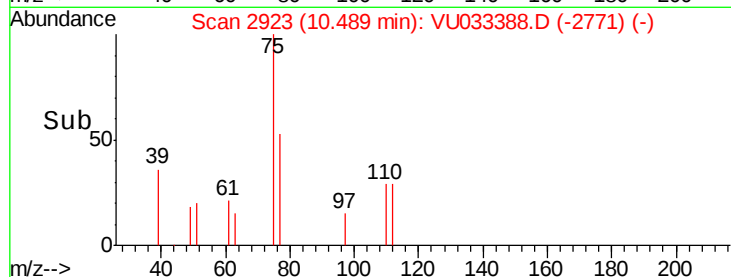
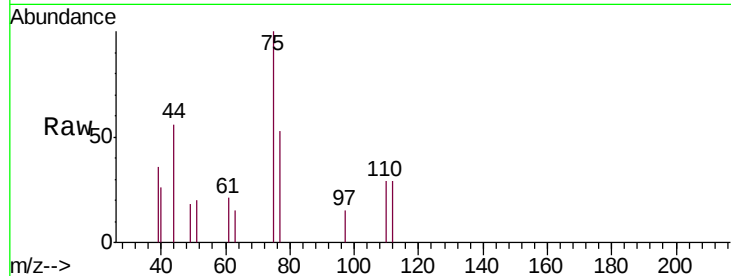




#46
t-1,4-Dichloro-2-butene
Concen: 1.063 ug/l
RT: 10.49 min Scan# 2923
Delta R.T. -0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

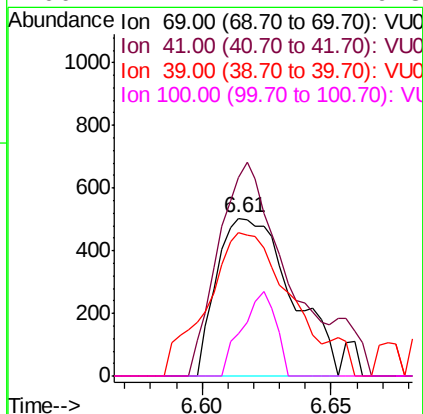
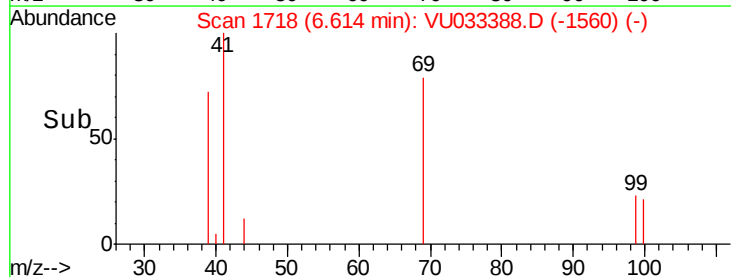
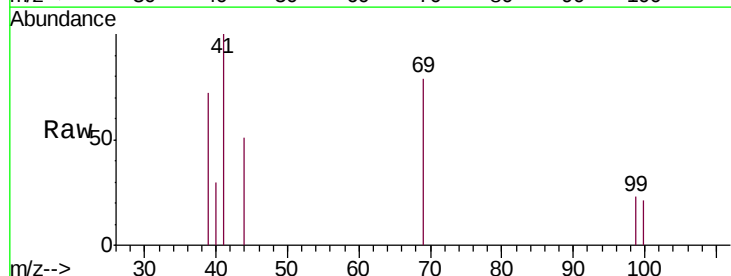
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

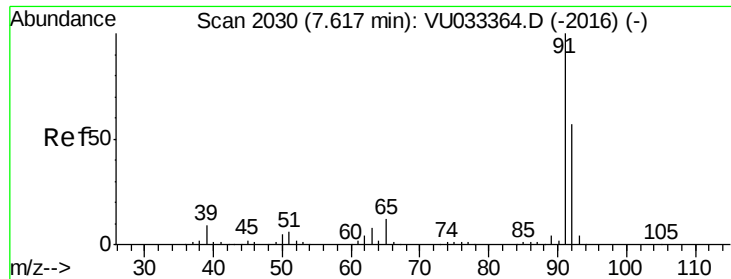
Tgt Ion:	75	Resp:	2025
Ion	Ratio	Lower	Upper
75	100		
53	28.2	62.9	94.3#
89	7.8	43.0	64.4#
88	5.6	35.0	52.4#



#47
Methyl methacrylate
Concen: 0.288 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion:	69	Resp:	1016
Ion	Ratio	Lower	Upper
69	100		
41	120.0	0.0	208.2
39	97.8	50.6	75.8#
100	24.4	27.2	40.8#





#49

Toluene

Concen: 0.201 ug/l

RT: 7.62 min Scan# 2032

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

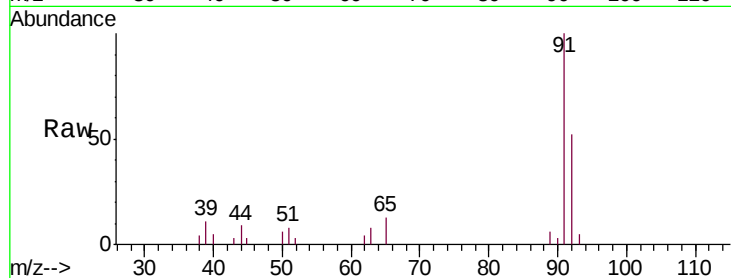
MDL-MDL-WATER-03-QT3-2019

Tgt Ion: 92 Resp: 3481

Ion Ratio Lower Upper

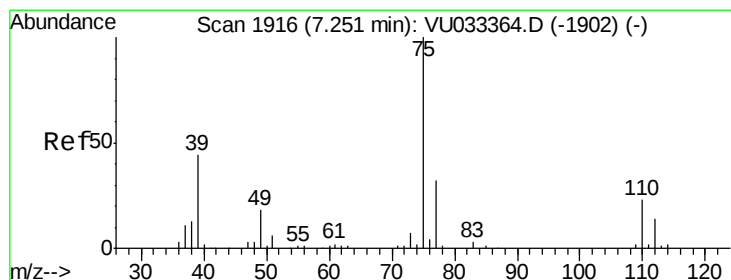
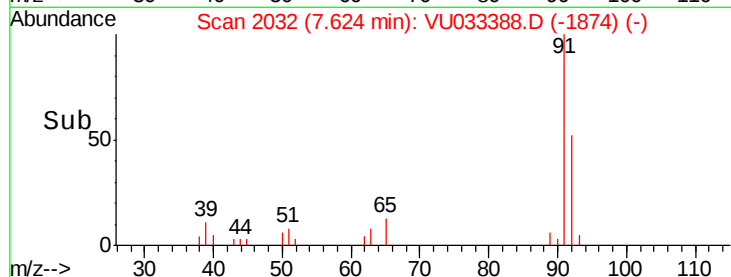
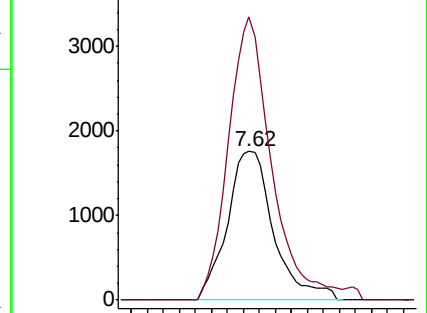
92 100

91 176.6 142.1 213.1



Abundance Ion 92.00 (91.70 to 92.70): VU033364.D (-2016) (-)

Ion 91.00 (90.70 to 91.70): VU033364.D (-2016) (-)



#51

cis-1,3-Dichloropropene

Concen: 0.208 ug/l

RT: 7.26 min Scan# 1918

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

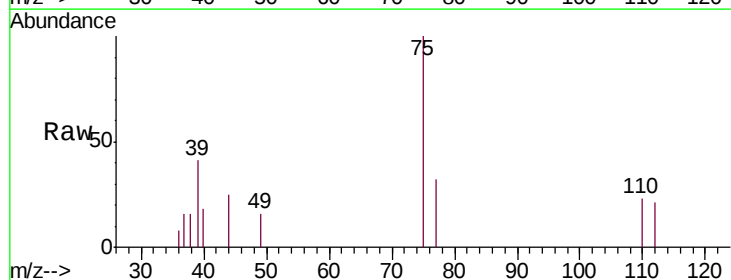
Tgt Ion: 75 Resp: 2281

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8

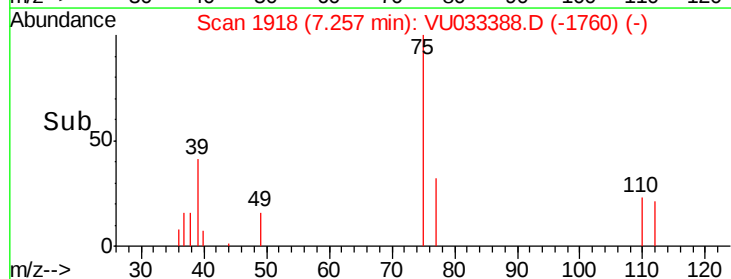
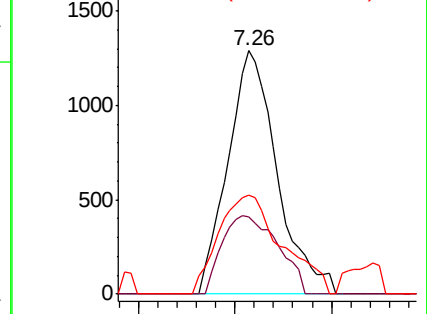
39 40.8 35.2 52.8

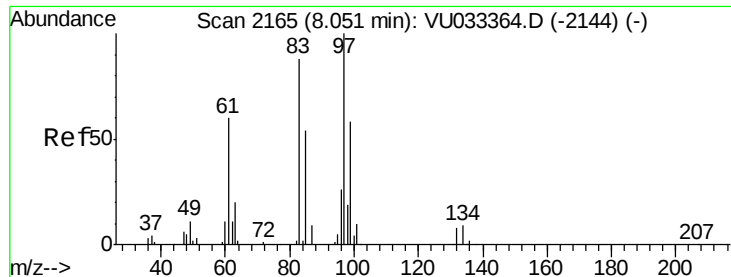


Abundance Ion 75.00 (74.70 to 75.70): VU033364.D (-1902) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-1902) (-)

Ion 39.00 (38.70 to 39.70): VU033364.D (-1902) (-)

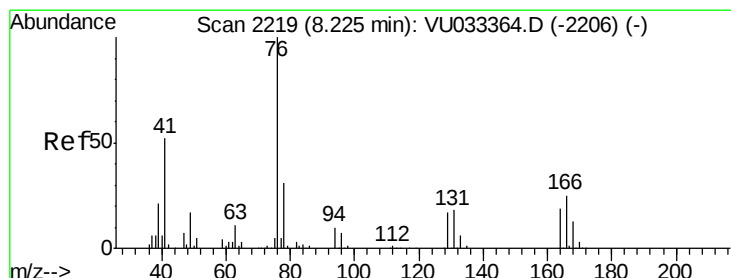
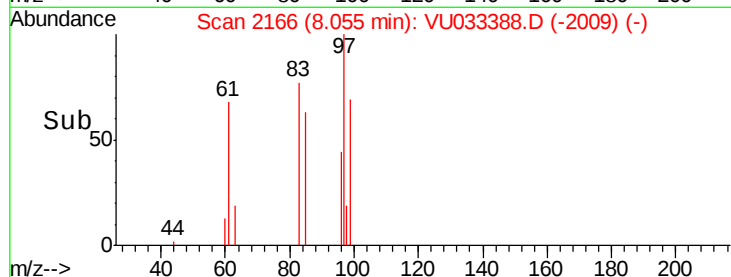
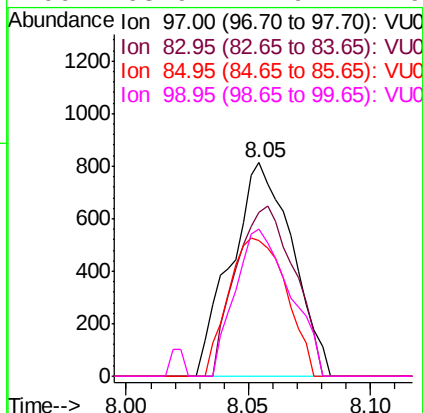
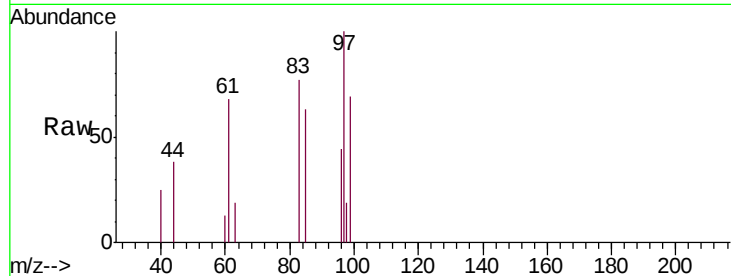




#52
 1,1,2-Trichloroethane
 Concen: 0.229 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

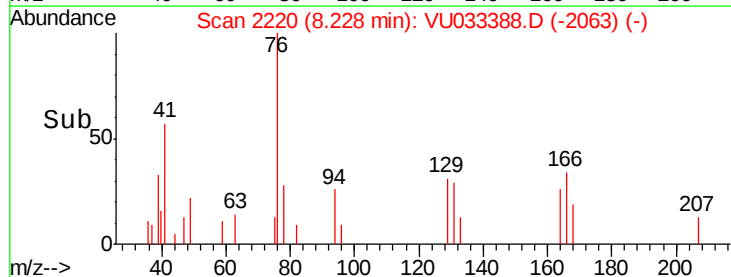
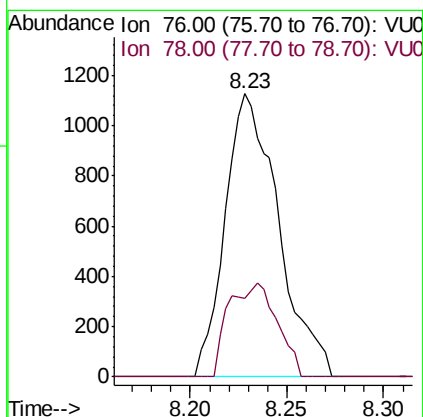
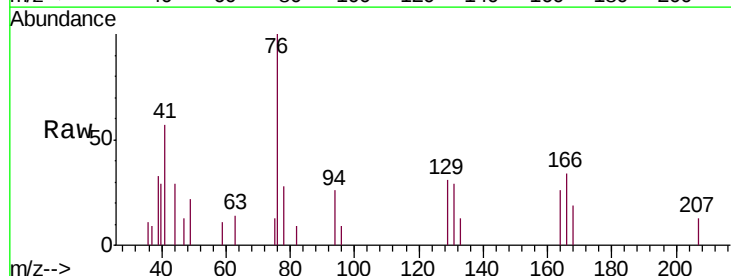
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

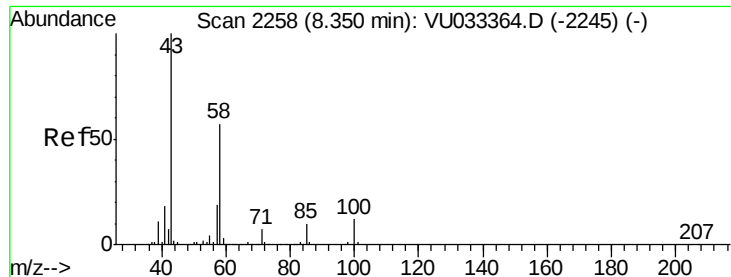
Tgt Ion: 97 Resp: 1417
 Ion Ratio Lower Upper
 97 100
 83 76.9 70.2 105.2
 85 63.5 43.5 65.3
 99 68.9 47.9 71.9



#53
 1,3-Dichloropropane
 Concen: 0.207 ug/l
 RT: 8.23 min Scan# 2220
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 76 Resp: 2160
 Ion Ratio Lower Upper
 76 100
 78 30.2 25.7 38.5

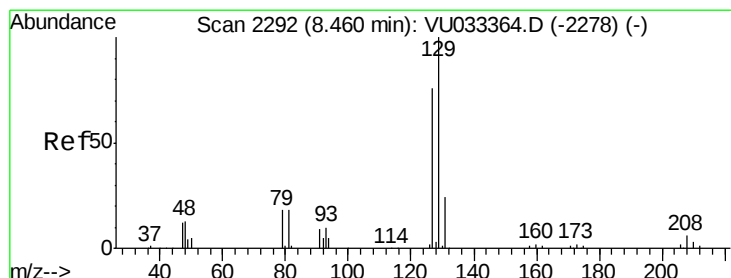
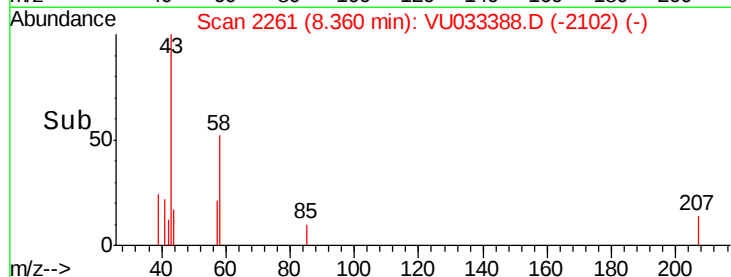
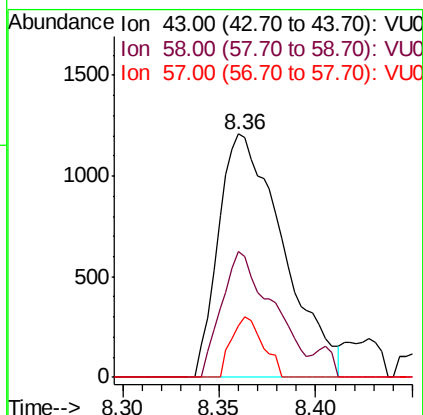
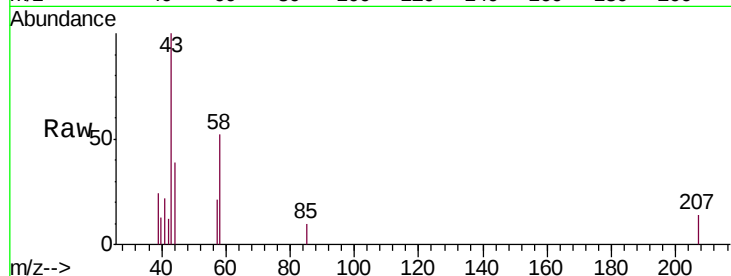




#54
2-Hexanone
Concen: 0.847 ug/l
RT: 8.36 min Scan# 2261
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

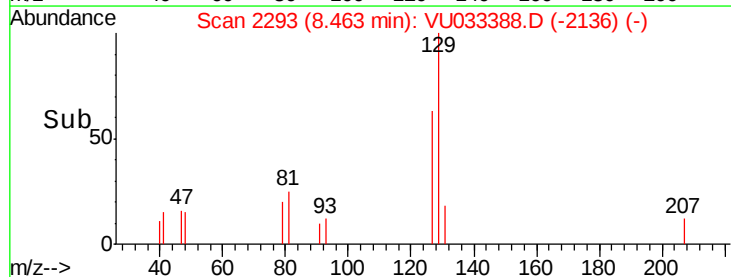
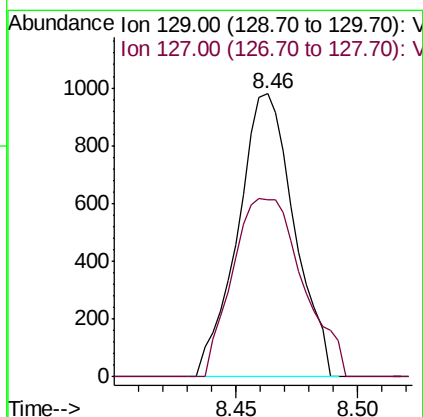
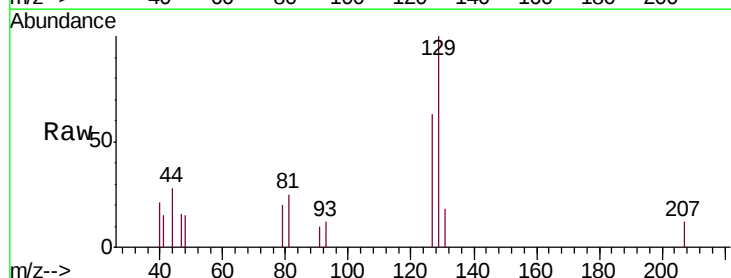
Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

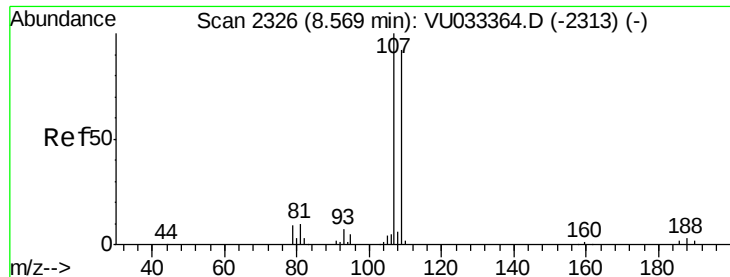
Tgt Ion: 43 Resp: 2814
Ion Ratio Lower Upper
43 100
58 41.0 36.0 76.0
57 12.0 0.0 39.4



#55
Dibromochloromethane
Concen: 0.218 ug/l
RT: 8.46 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion: 129 Resp: 1571
Ion Ratio Lower Upper
129 100
127 78.7 60.9 91.3

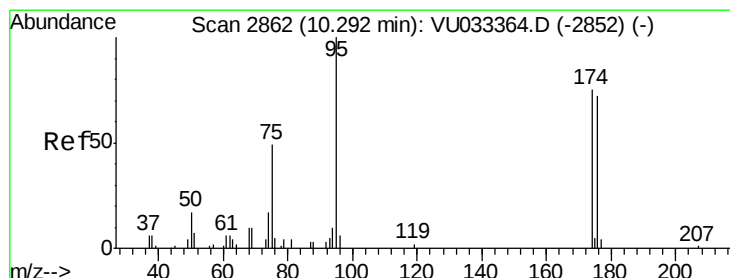
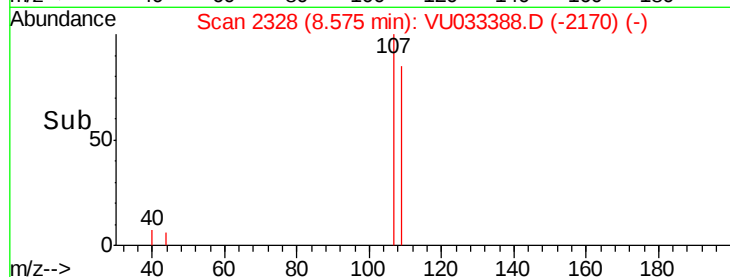
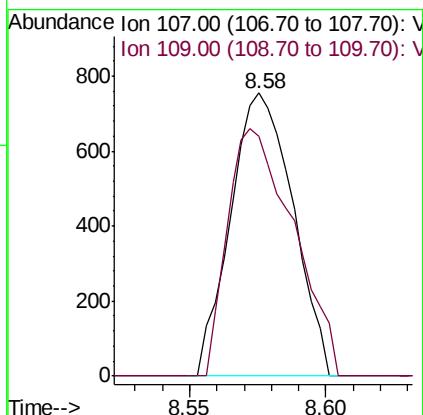
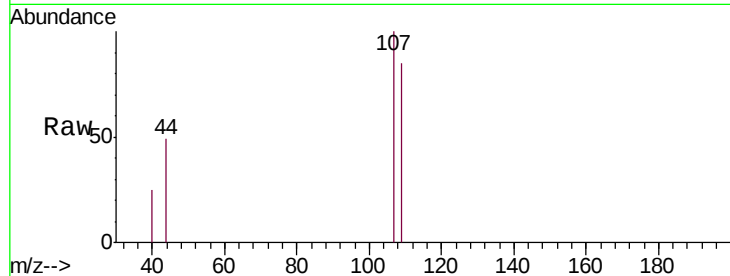




#56
 1,2-Dibromoethane
 Concen: 0.208 ug/l
 RT: 8.58 min Scan# 2326
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

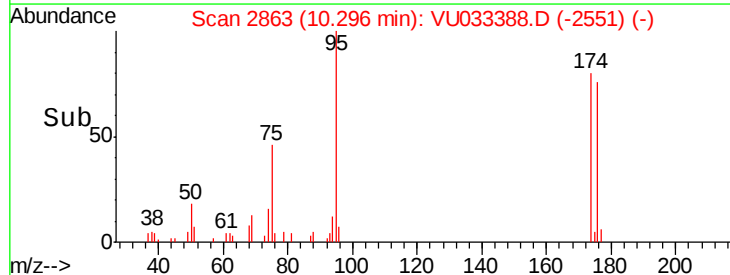
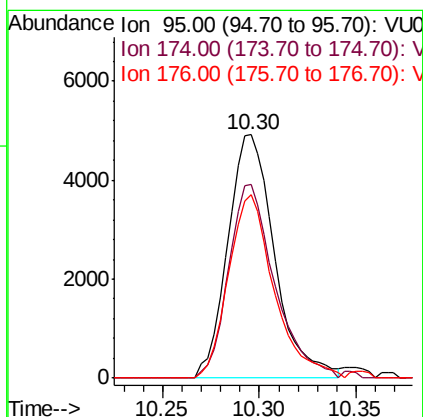
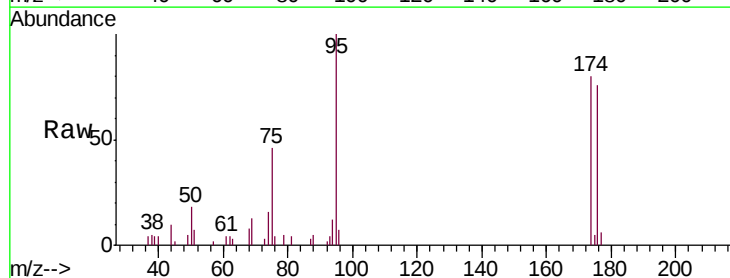
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

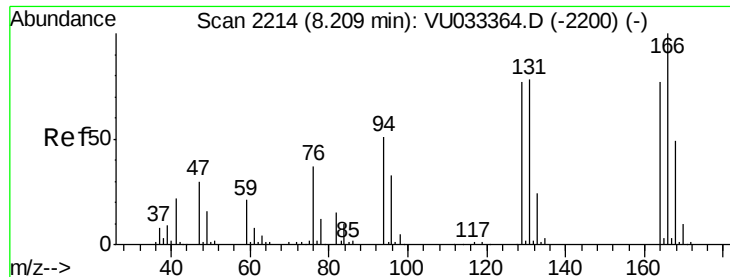
Tgt Ion: 107 Resp: 1196
 Ion Ratio Lower Upper
 107 100
 109 92.7 0.0 184.8



#57
 4-Bromofluorobenzene
 Concen: 0.830 ug/l
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 95 Resp: 8260
 Ion Ratio Lower Upper
 95 100
 174 78.2 58.8 88.2
 176 73.6 54.4 81.6





#58

Tetrachloroethene

Concen: 0.242 ug/l

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tgt Ion:164 Resp: 1756

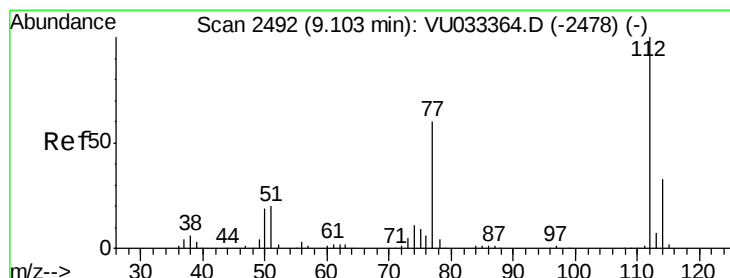
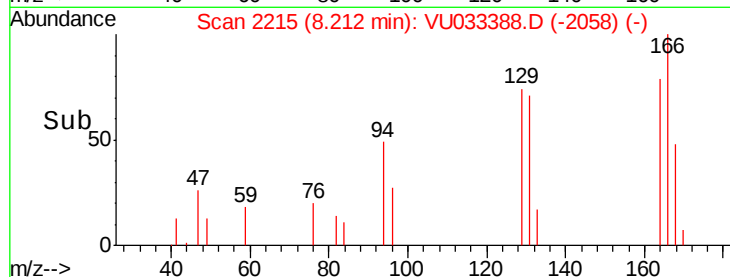
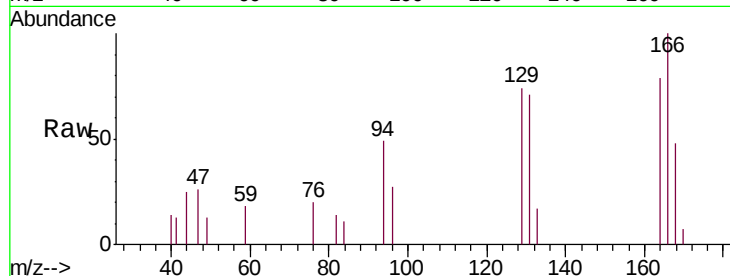
Ion Ratio Lower Upper

164 100

166 125.9 103.8 155.6

129 93.4 79.7 119.5

131 89.5 80.5 120.7



#59

Chlorobenzene

Concen: 0.232 ug/l

RT: 9.11 min Scan# 2493

Delta R.T. 0.00 min

Lab File: VU033388.D

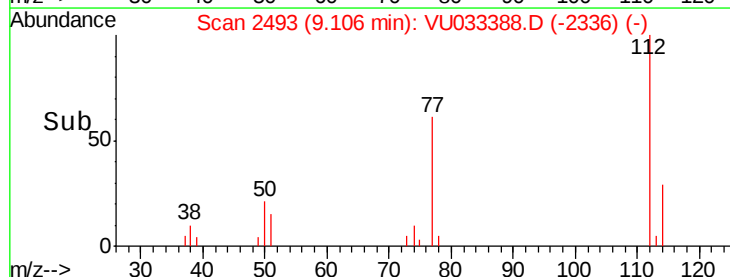
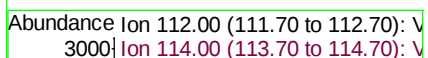
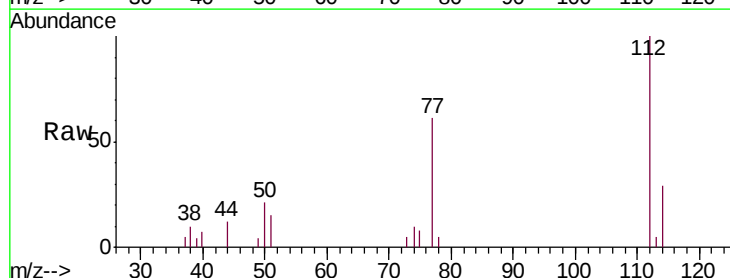
Acq: 24 Jul 2019 12:14

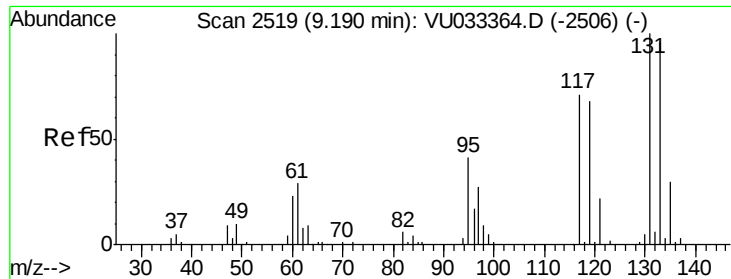
Tgt Ion:112 Resp: 4617

Ion Ratio Lower Upper

112 100

114 29.1 26.4 39.6

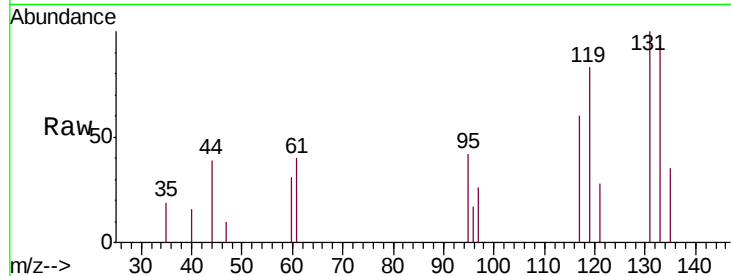




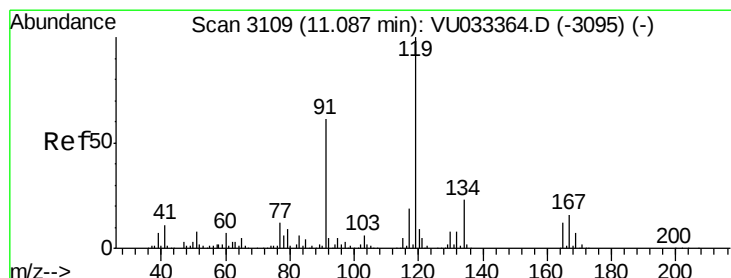
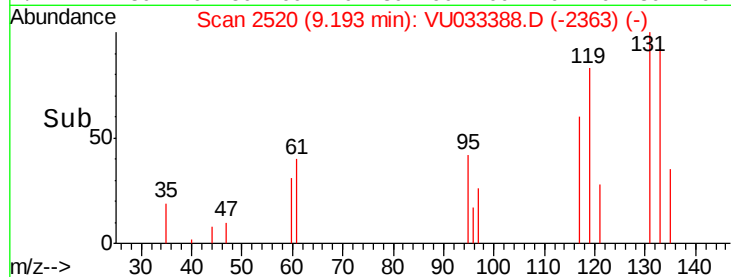
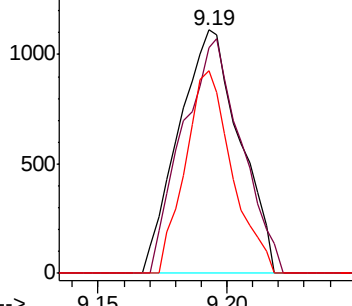
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.243 ug/l
 RT: 9.19 min Scan# 2520
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tgt Ion:131 Resp: 1837
 Ion Ratio Lower Upper
 131 100
 133 93.0 76.2 114.4
 119 64.0 54.9 82.3

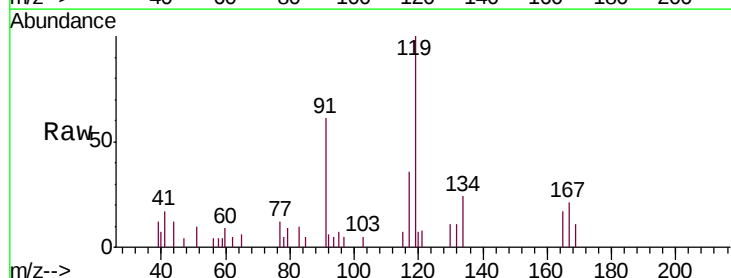


Abundance Ion 131.00 (130.70 to 131.70): V
 1500 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

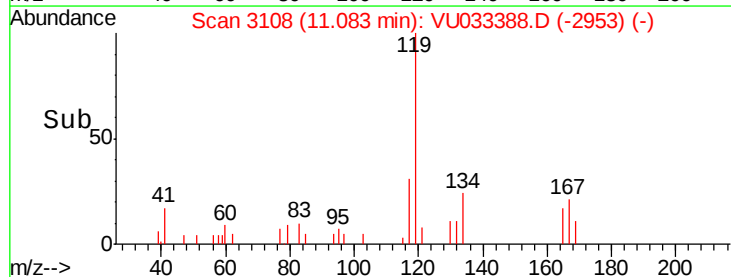
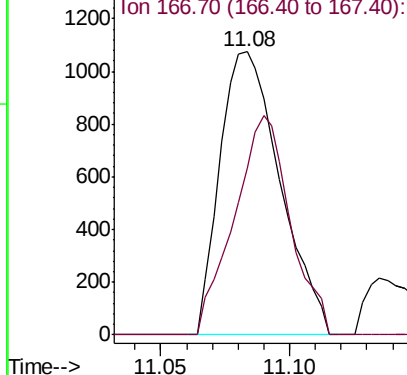


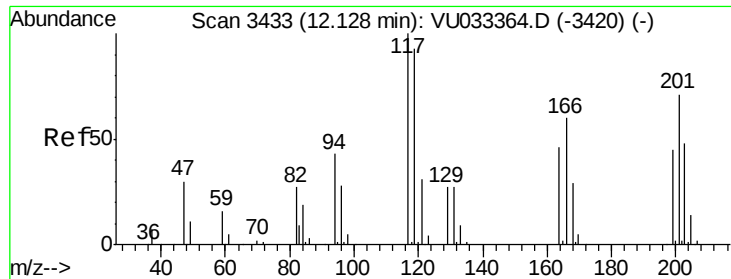
#61
 Pentachloroethane
 Concen: 0.282 ug/l
 RT: 11.08 min Scan# 3108
 Delta R.T. -0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion:117 Resp: 1747
 Ion Ratio Lower Upper
 117 100
 167 72.1 63.4 95.0



Abundance Ion 116.80 (116.50 to 117.50): V
 1200 Ion 166.70 (166.40 to 167.40): V





#62

Hexachloroethane

Concen: 0.248 ug/l

RT: 12.13 min Scan# 3434

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

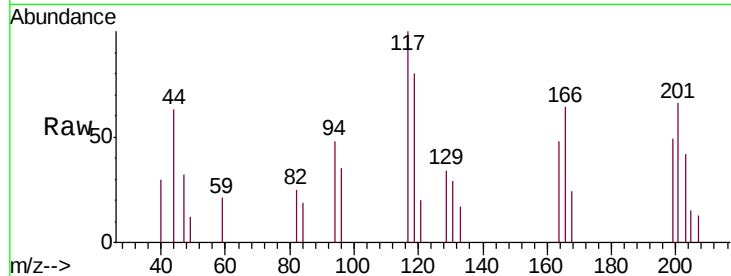
MDL-MDL-WATER-03-QT3-2019

Tgt Ion:117 Resp: 1490

Ion Ratio Lower Upper

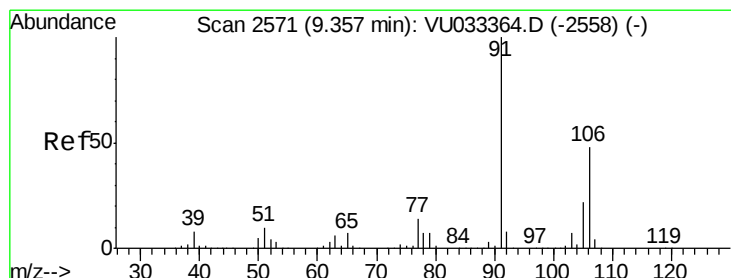
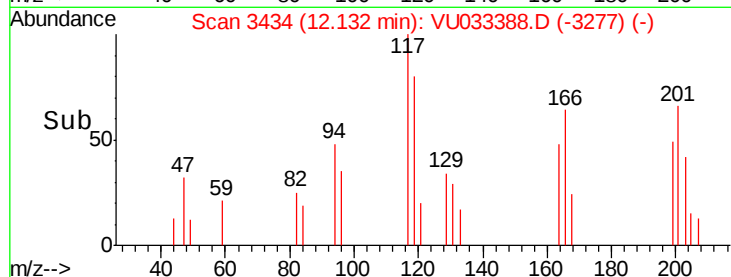
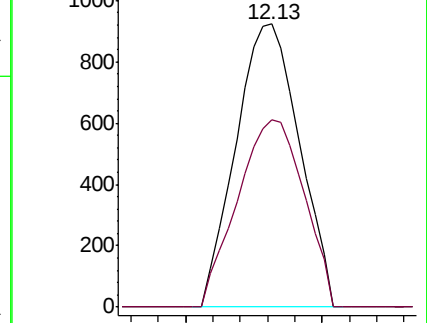
117 100

201 69.4 57.9 86.9



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V



#64

m/p-Xylenes

Concen: 0.354 ug/l

RT: 9.36 min Scan# 2573

Delta R.T. 0.01 min

Lab File: VU033388.D

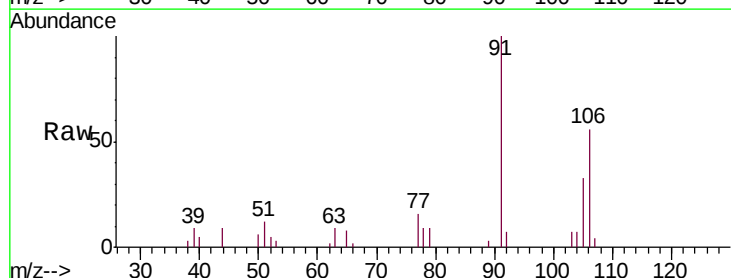
Acq: 24 Jul 2019 12:14

Tgt Ion:106 Resp: 4525

Ion Ratio Lower Upper

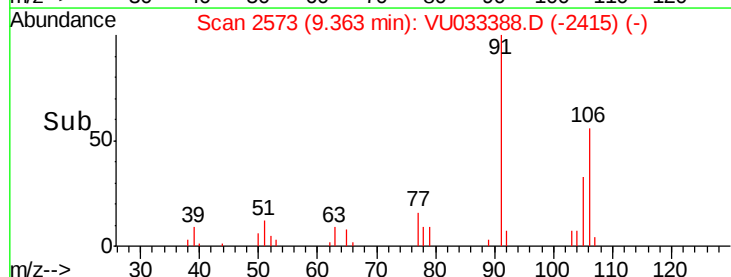
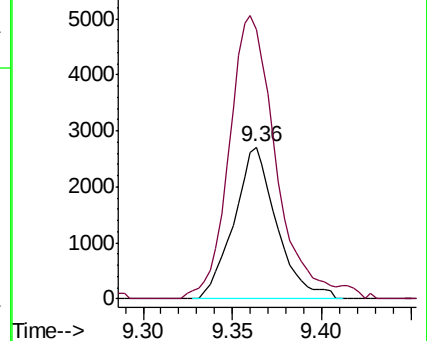
106 100

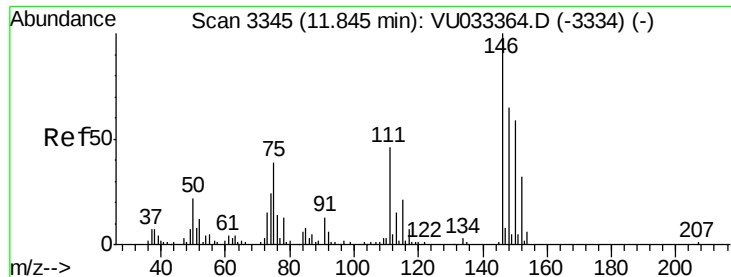
91 206.0 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#68

1,2-Dichlorobenzene-d4

Concen: 0.926 ug/l

RT: 11.85 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

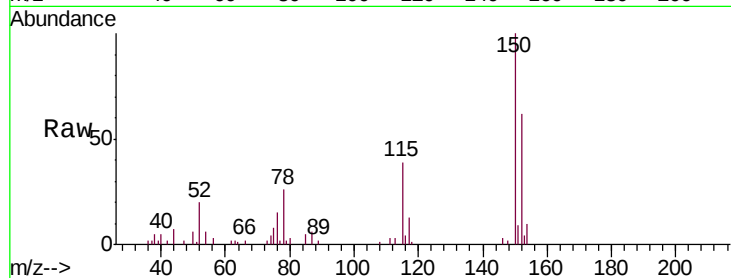
Tgt Ion:152 Resp: 9510

Ion Ratio Lower Upper

152 100

115 63.2 0.0 123.2

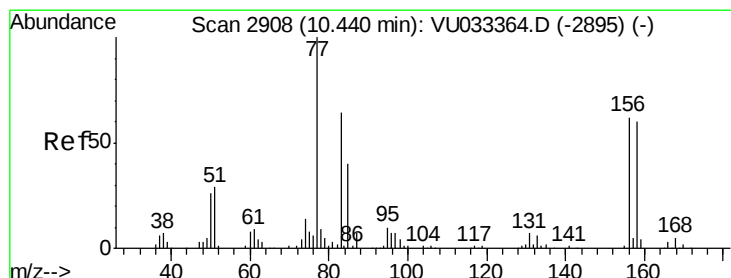
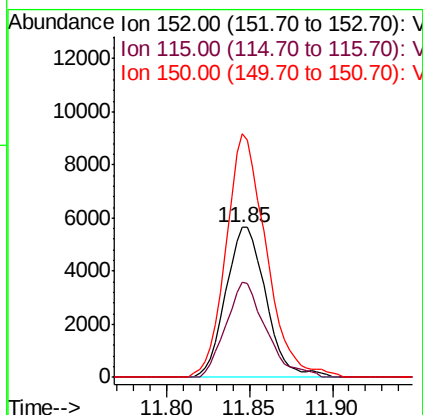
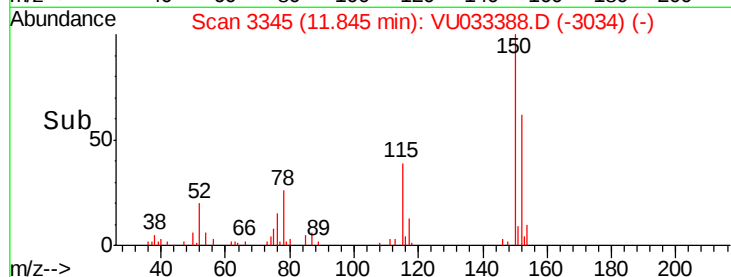
150 162.4 0.0 648.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#70

1,1,2,2-Tetrachloroethane

Concen: 0.210 ug/l

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

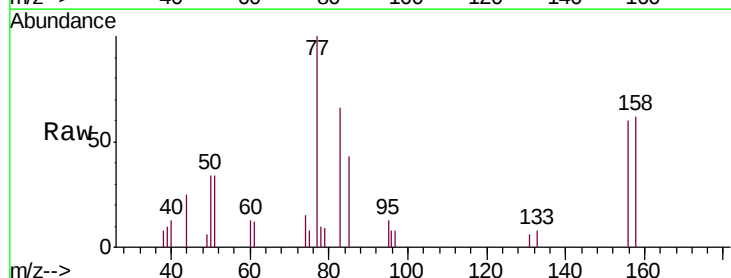
Tgt Ion: 83 Resp: 1718

Ion Ratio Lower Upper

83 100

131 2.4 8.0 12.0#

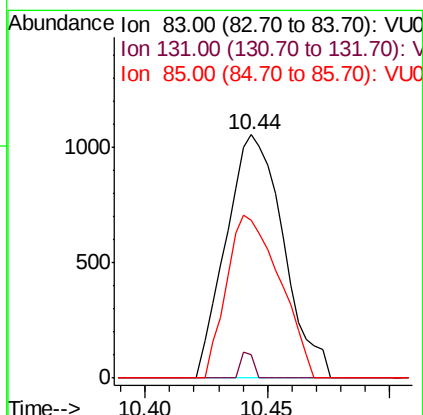
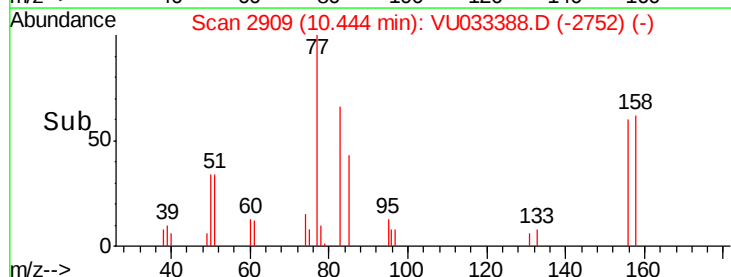
85 62.4 51.8 77.8

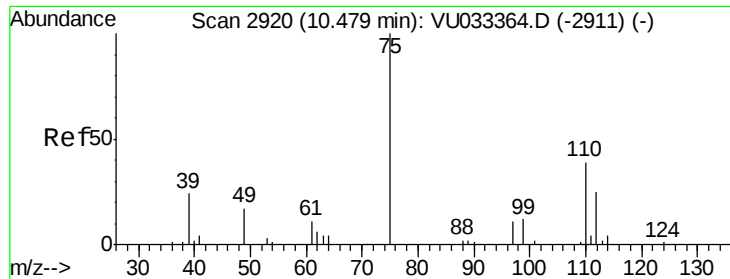


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0

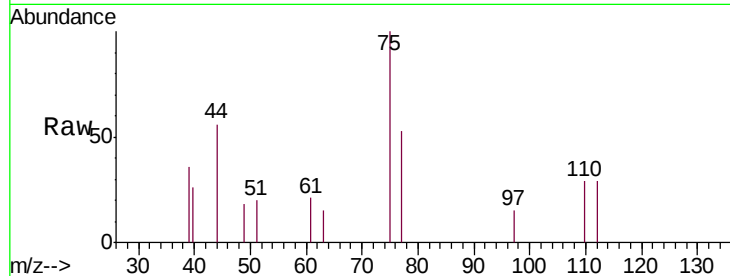




#71
 1,2,3-Trichloropropane
 Concen: 0.320 ug/l
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tgt Ion:	75	Resp:	2025
Ion	Ratio	Lower	Upper
75	100		
77	36.0	0.0	18.2#
110	16.3	0.0	71.4
97	8.3	0.0	37.8



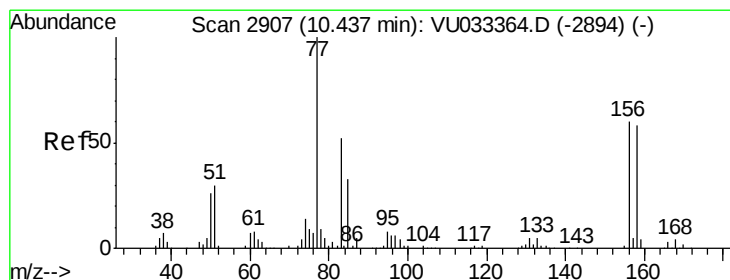
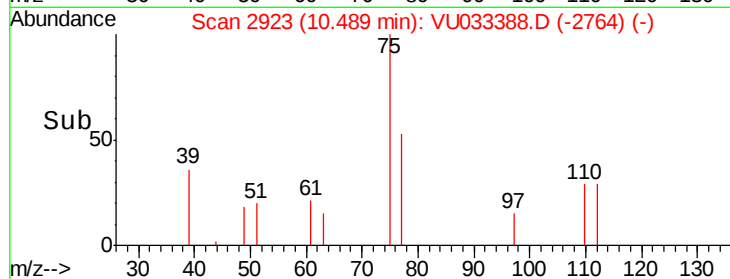
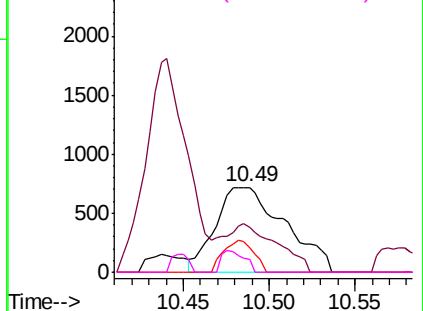
Abundance

Ion 75.00 (74.70 to 75.70): VU033364.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-2911) (-)

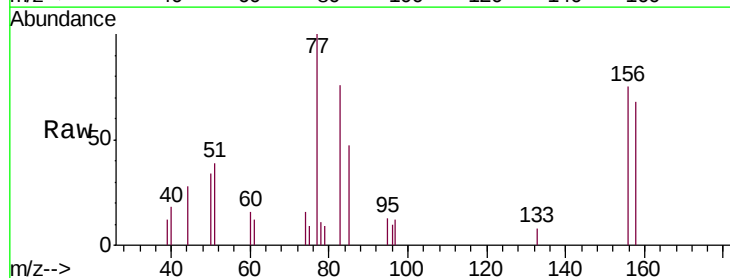
Ion 110.00 (109.70 to 110.70): VU033364.D (-2911) (-)

Ion 97.00 (96.70 to 97.70): VU033364.D (-2911) (-)



#72
 Bromobenzene
 Concen: 0.216 ug/l
 RT: 10.45 min Scan# 2910
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion:	156	Resp:	1788
Ion	Ratio	Lower	Upper
156	100		
77	167.8	0.0	324.4
158	96.1	0.0	192.4

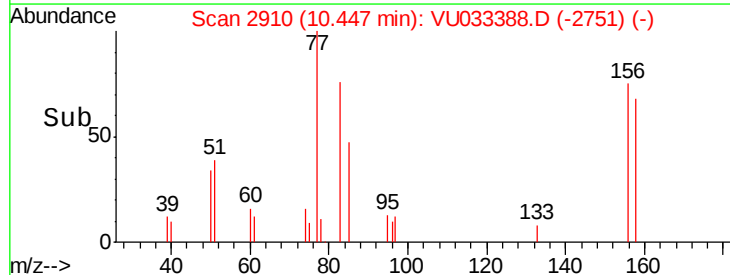
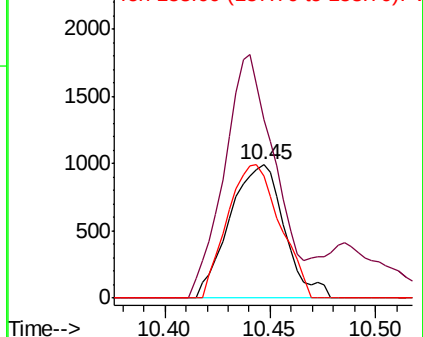


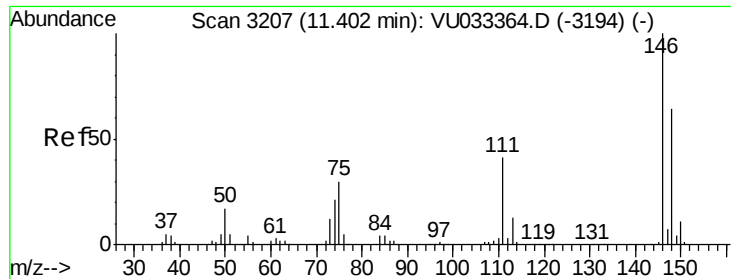
Abundance

Ion 156.00 (155.70 to 156.70): VU033364.D (-2894) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-2894) (-)

Ion 158.00 (157.70 to 158.70): VU033364.D (-2894) (-)

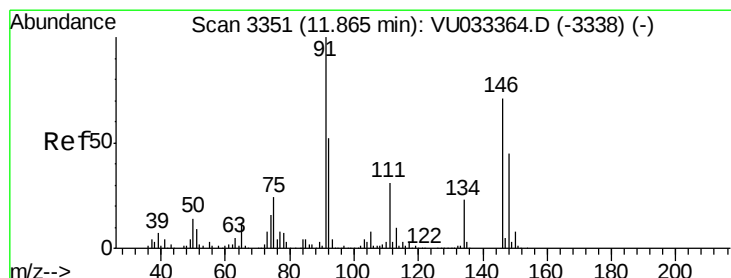
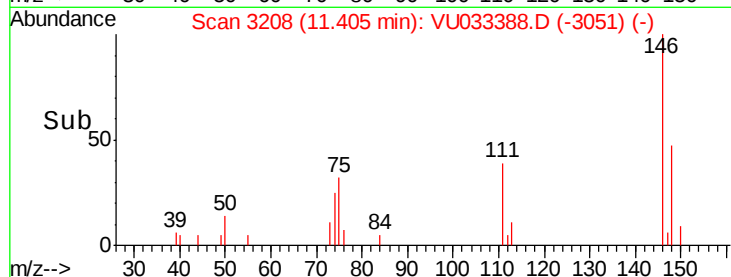
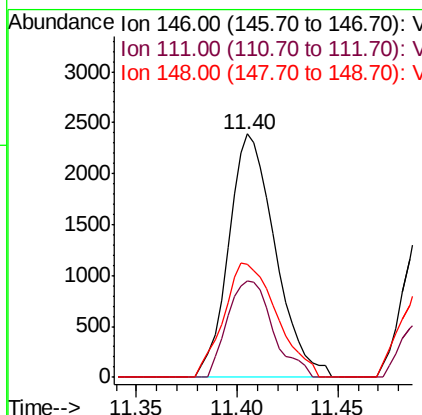
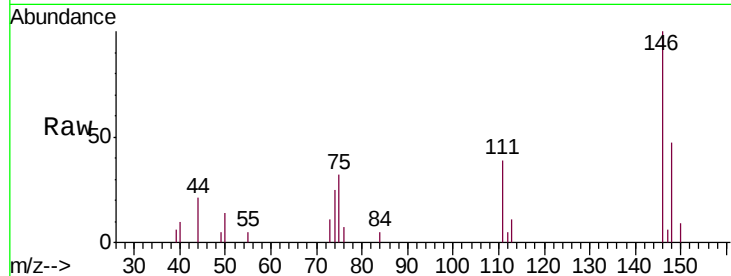




#82
 1,3-Dichlorobenzene
 Concen: 0.219 ug/l
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

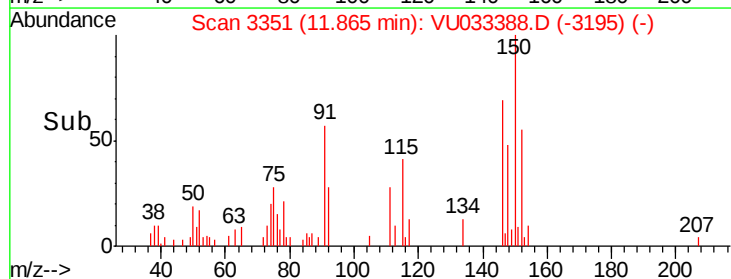
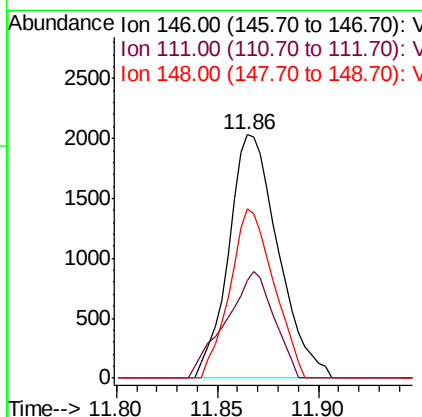
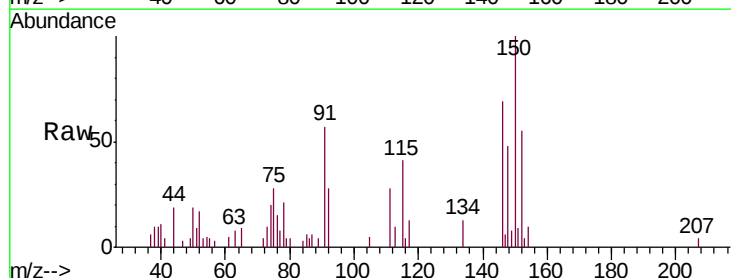
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

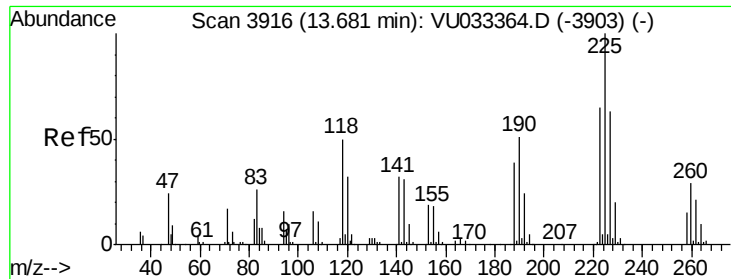
Tgt Ion:146 Resp: 3861
 Ion Ratio Lower Upper
 146 100
 111 38.6 33.3 49.9
 148 53.1 50.8 76.2



#85
 1,2-Dichlorobenzene
 Concen: 0.211 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion:146 Resp: 3493
 Ion Ratio Lower Upper
 146 100
 111 42.5 21.7 65.1
 148 61.5 32.0 96.0





#88

Hexachlorobutadiene

Concen: 0.264 ug/l

RT: 13.68 min Scan# 3915

Delta R.T. -0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

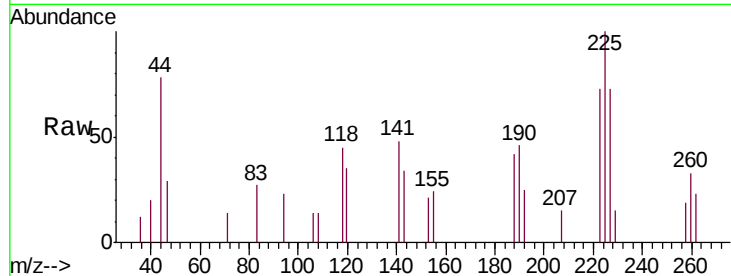
Tgt Ion:225 Resp: 1602

Ion Ratio Lower Upper

225 100

223 57.4 52.2 78.4

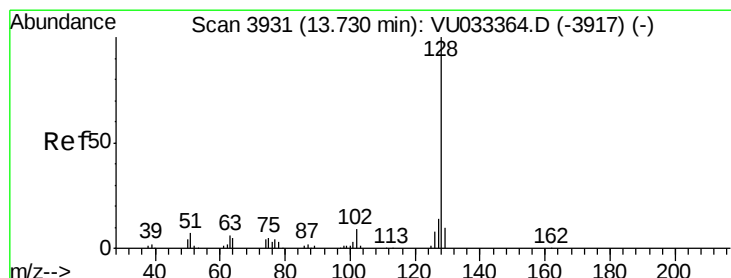
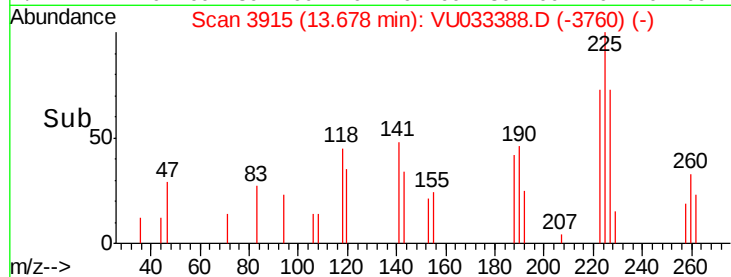
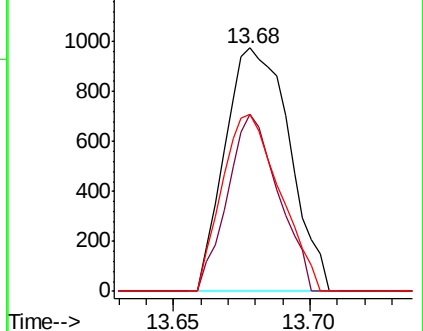
227 65.4 51.7 77.5



Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V



#89

Naphthalene

Concen: 0.752 ug/l

RT: 13.74 min Scan# 3935

Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

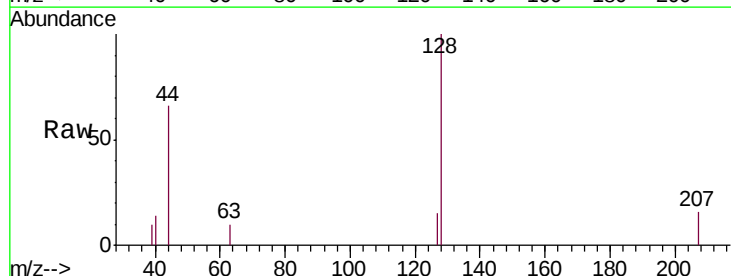
Tgt Ion:128 Resp: 2241

Ion Ratio Lower Upper

128 100

127 10.8 10.8 16.2

129 1.9 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

