

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072419\
 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

Manual Integrations
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 7/25/2019 12:13:10 PM

Quant Time: Jul 25 08:04:24 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						Ovalue
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	3.608	ug/l #	82
25) Methyl tert-Butyl Ether	2.99	73	6249	0.241	ug/l #	86
26) Bromochloromethane	4.53	128	857m	0.240	ug/l	
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	528m	0.898	ug/l	
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
41) Tetrahydrofuran	4.64	42	306m	0.262	ug/l	
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

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Manual Integrations
 APPROVED

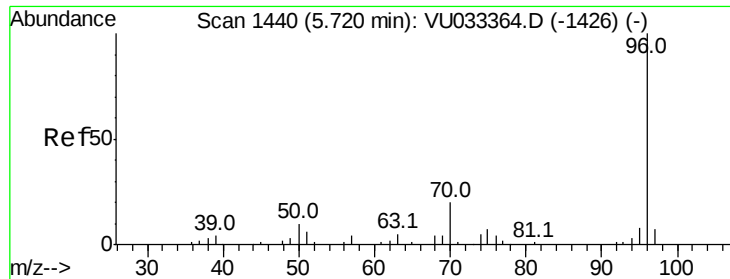
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

46) t-1,4-Dichloro-2-butene	10.50	75	661m	0.347	ug/l	
47) Methyl methacrylate	6.61	69	1016	0.288	ug/l #	75
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	1454m	0.230	ug/l	
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

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VU033388.D

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ClientSampleId :

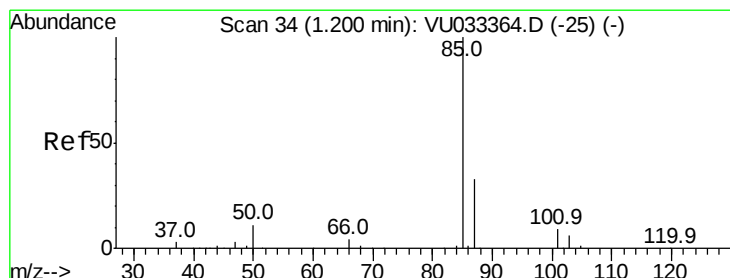
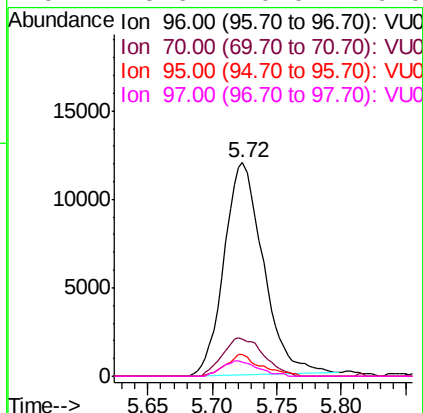
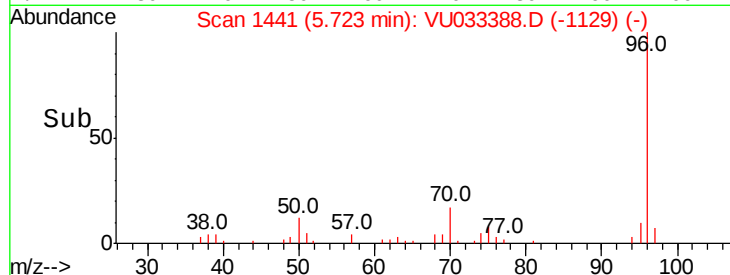
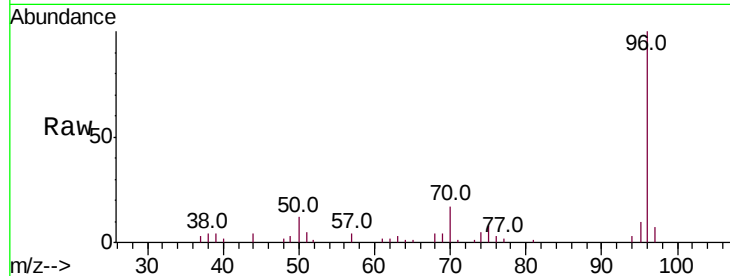
MDL-MDL-WATER-03-QT3-2019

Tot 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#

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#2

Dichlorodifluoromethane

Concen: 0.276 ug/l

RT: 1.20 min Scan# 34

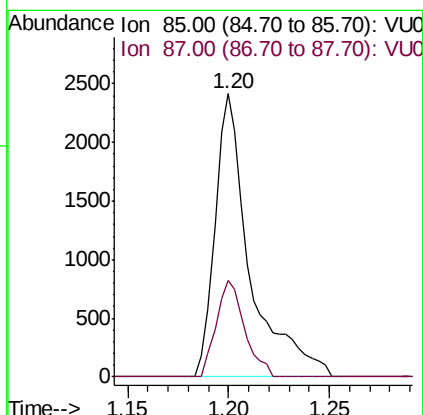
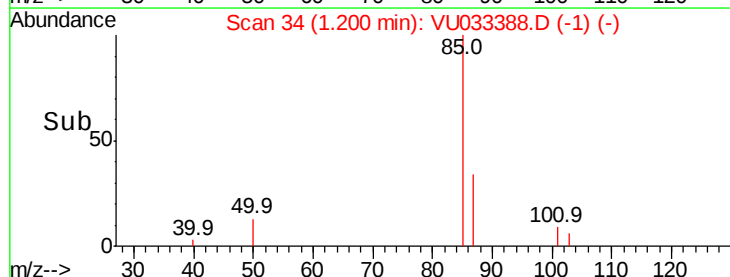
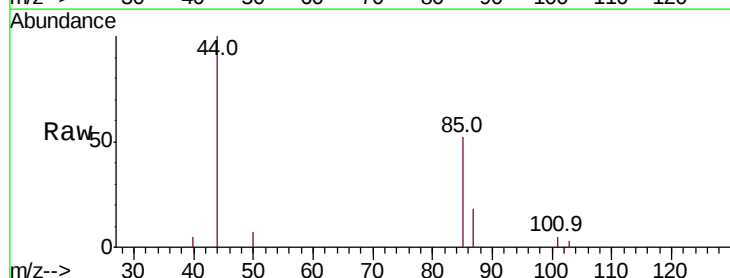
Delta R.T. 0.00 min

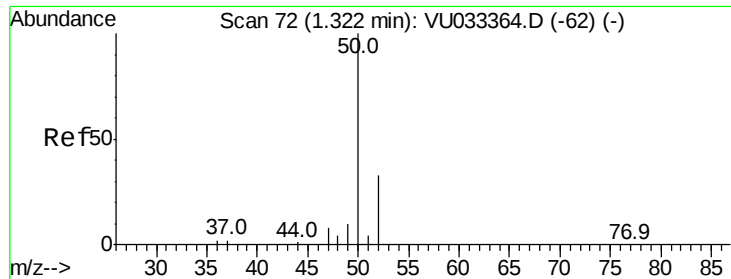
Lab File: VU033388.D

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

Tot Ion: 50 Resp: 3172

Ion Ratio Lower Upper

50 100

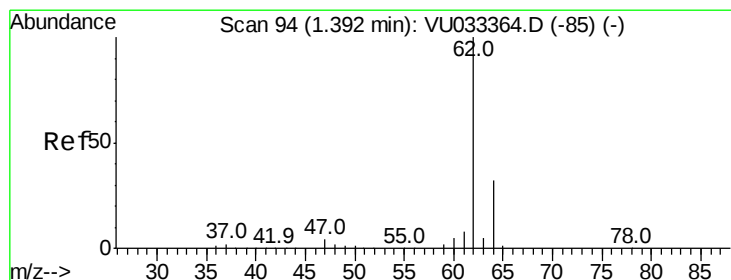
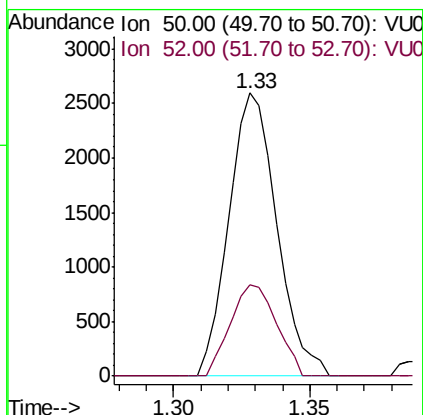
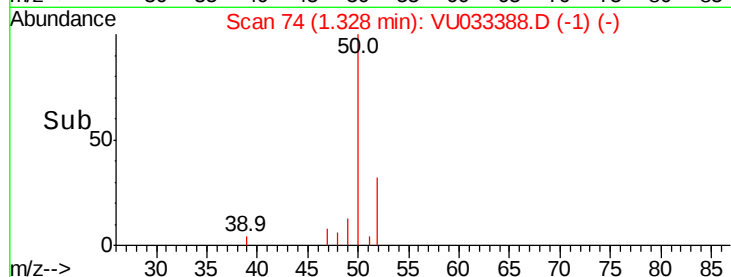
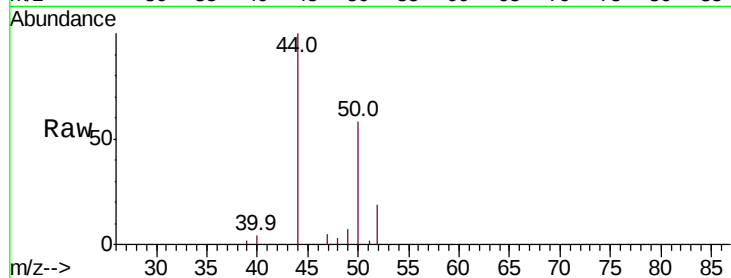
52 32.4 26.1 39.1

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#4

Vinyl Chloride

Concen: 0.255 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033388.D

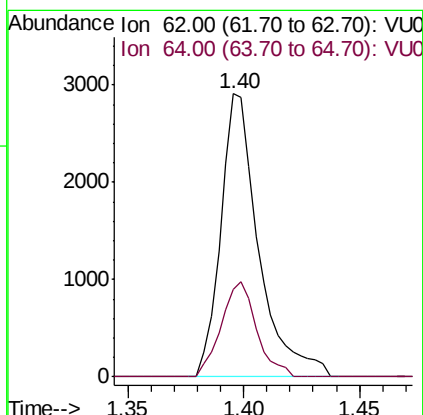
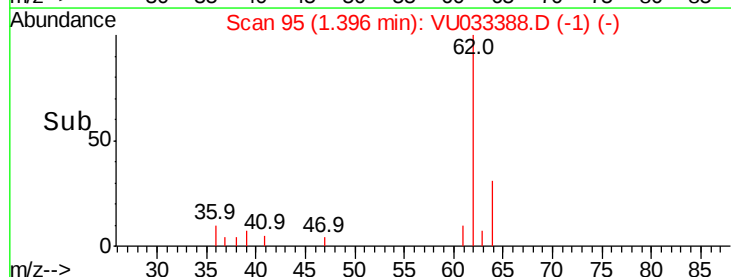
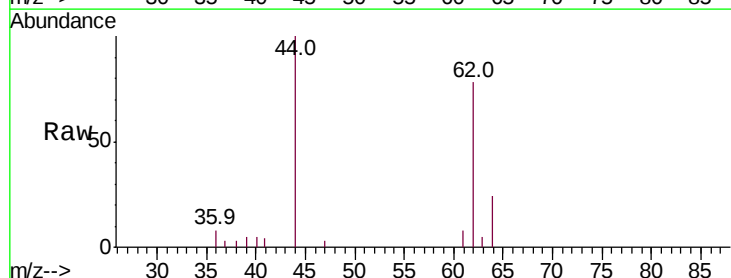
Acq: 24 Jul 2019 12:14

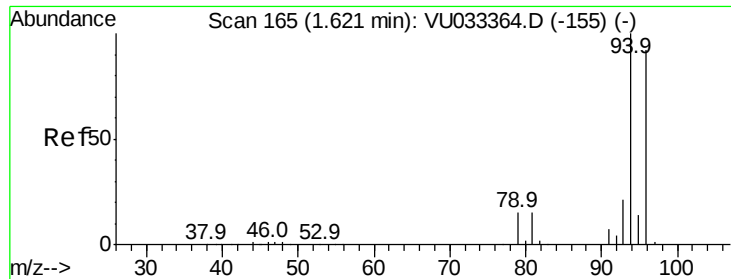
Tgt Ion: 62 Resp: 3293

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

Tot Ion: 94 Resp: 2865

Ion Ratio Lower Upper

94 100

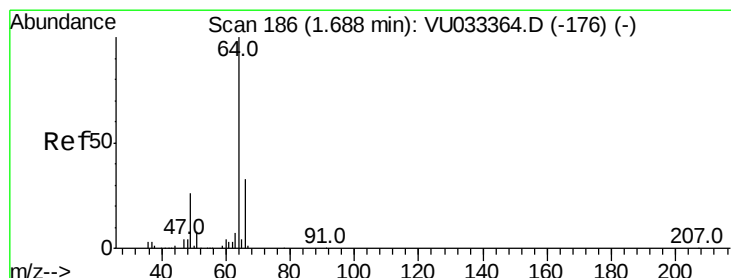
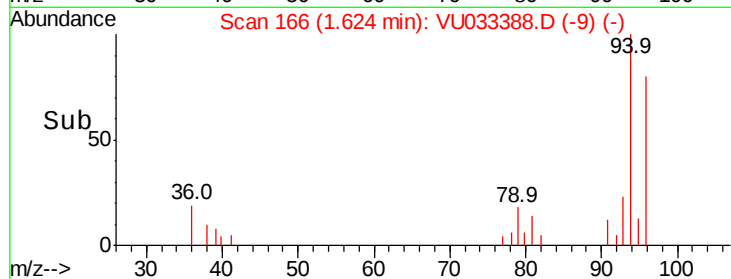
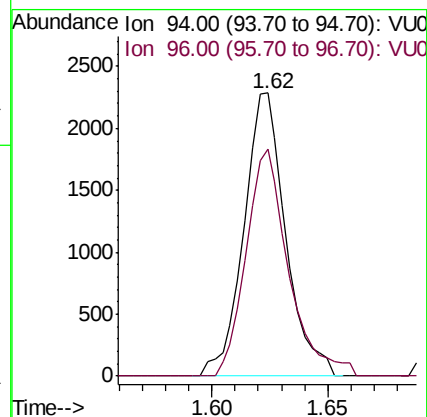
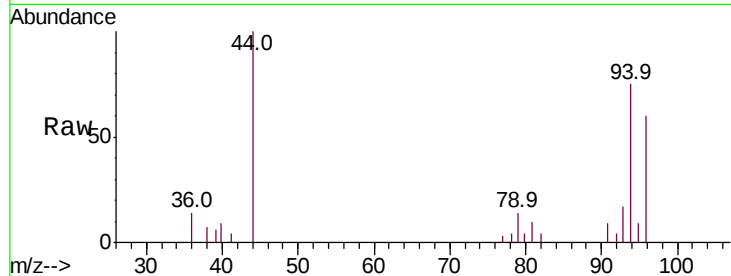
96 80.3 73.2 109.8

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#6

Chloroethane

Concen: 0.236 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033388.D

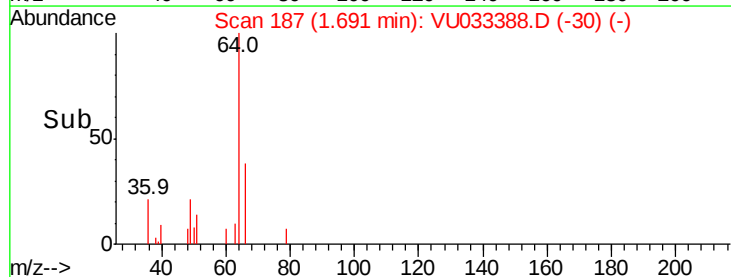
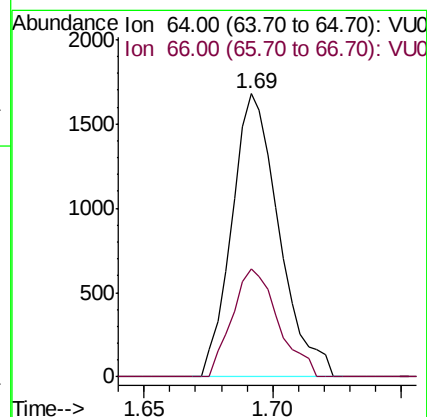
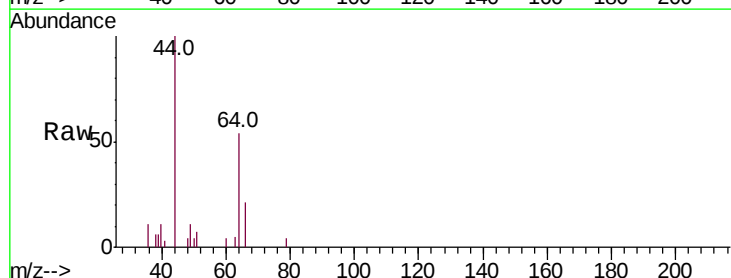
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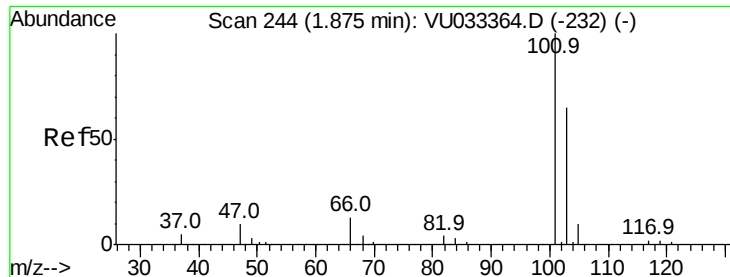
Tgt Ion: 64 Resp: 2140

Ion Ratio Lower Upper

64 100

66 38.2 26.4 39.6





#7

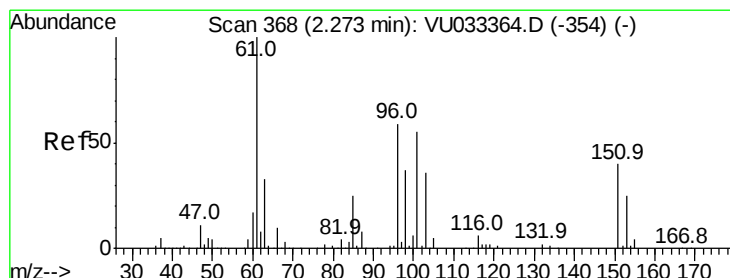
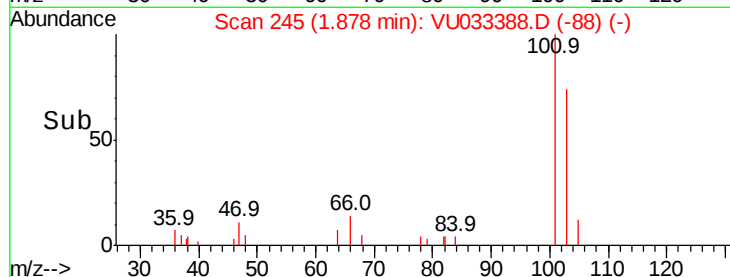
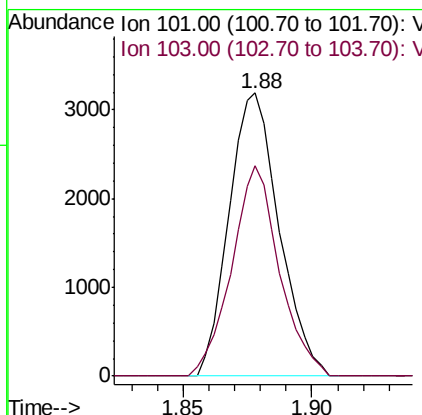
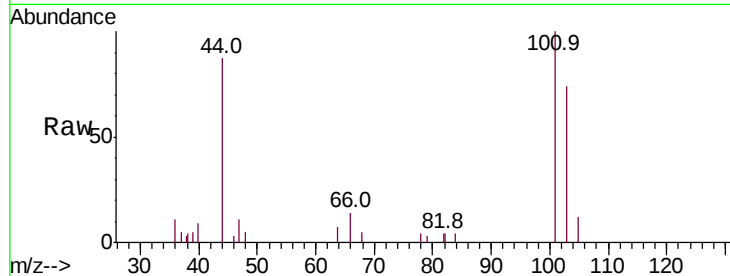
Trichlorofluoromethane
Concen: 0.243 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
101	100		
103	74.3	52.2	78.2

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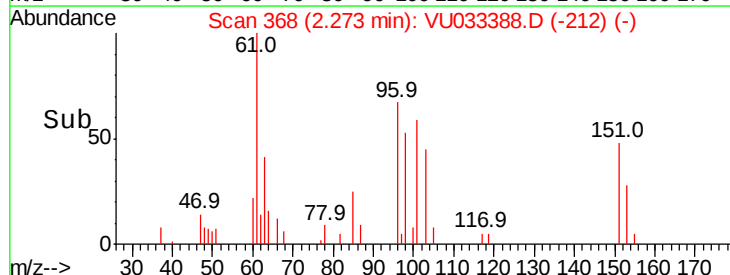
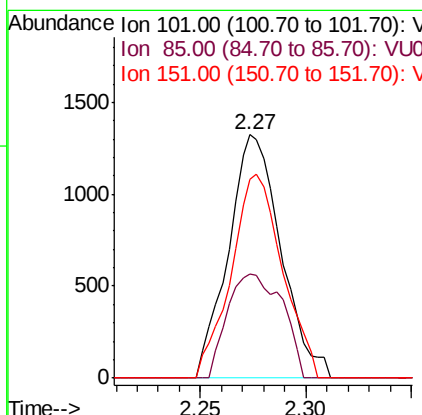
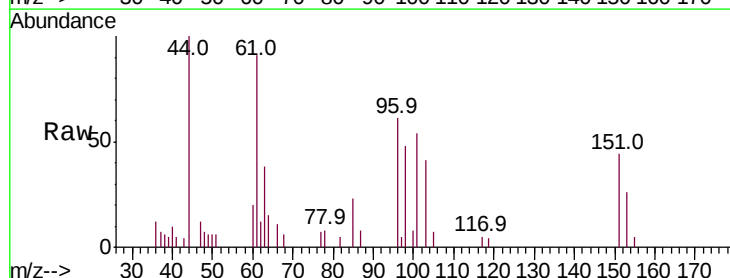
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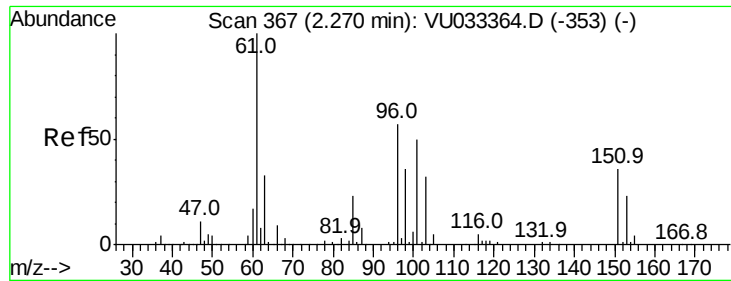


#8

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	Ratio	Lower	Upper
101	100		
85	44.7	37.5	56.3
151	81.8	58.3	87.5





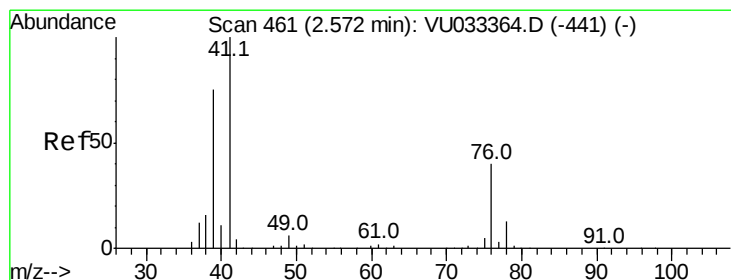
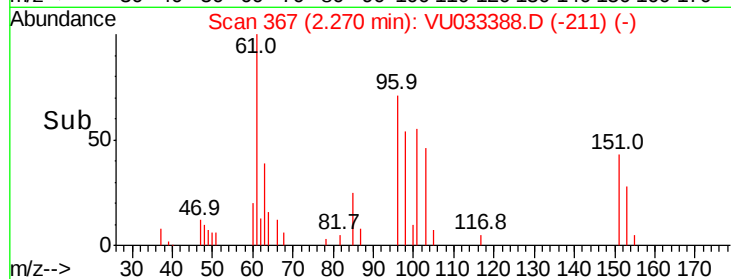
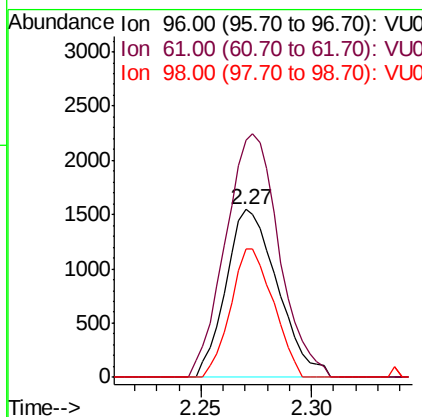
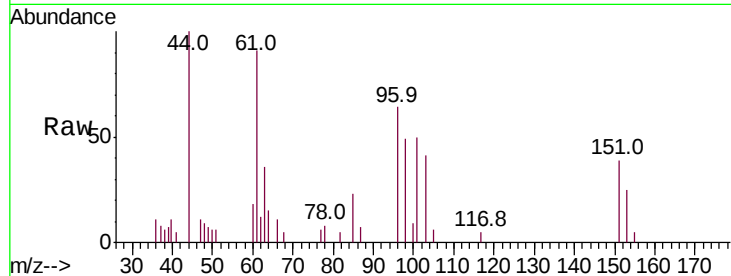
#9
 1,1-Dichloroethene
 Concen: 0.279 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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 MDL-MDL-WATER-03-QT3-2019

Tot Ion:	96	Resp:	2517
Ion	Ratio	Lower	Upper
96	100		
61	141.8	0.0	525.6
98	76.6	0.0	126.4

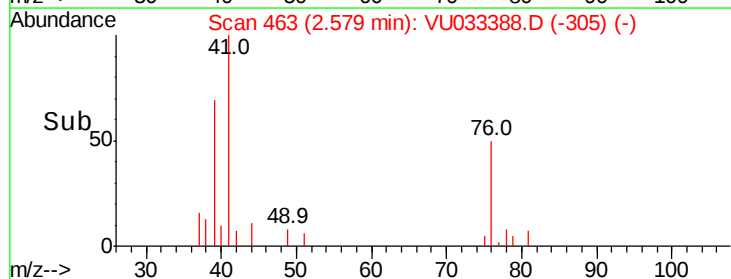
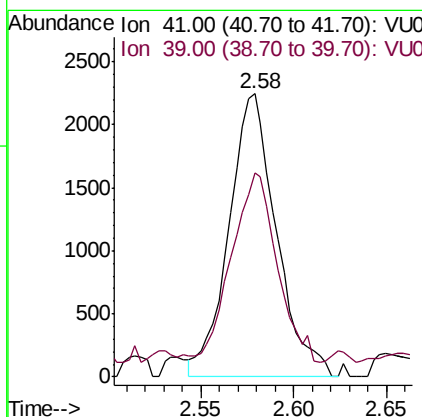
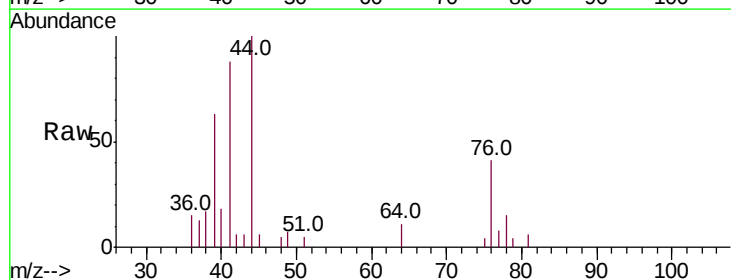
Manual Integrations
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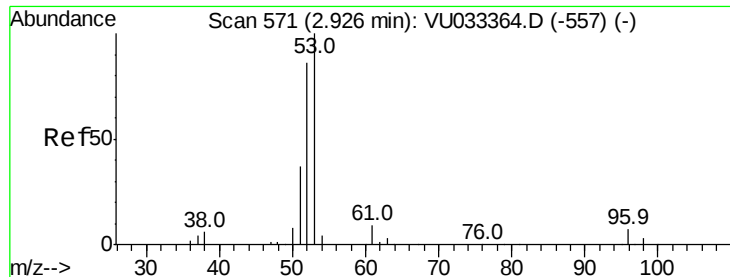
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#11
 Allyl Chloride
 Concen: 0.269 ug/l
 RT: 2.58 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

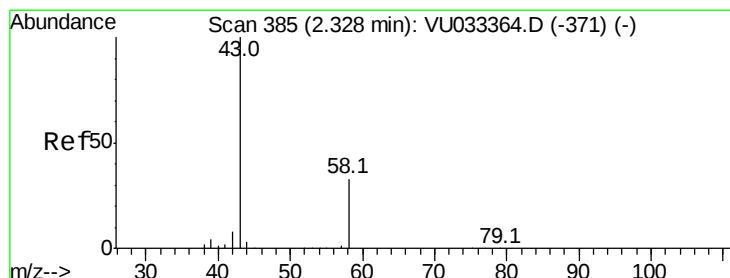
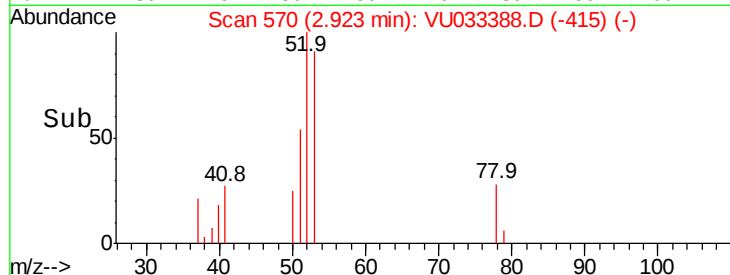
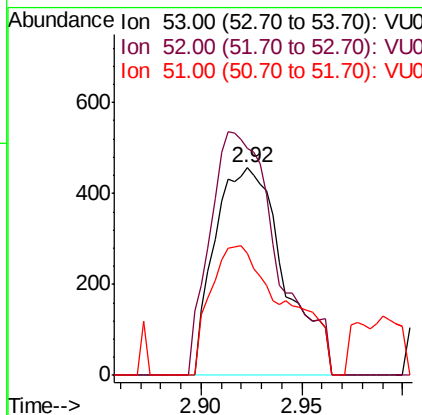
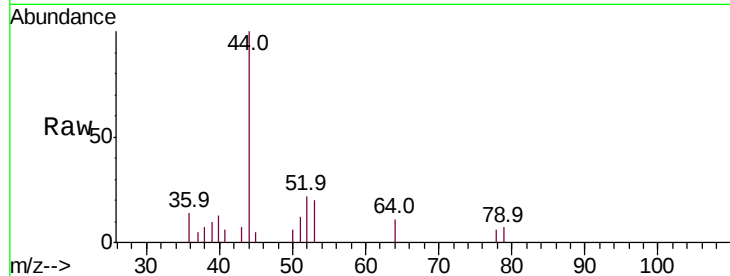
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

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

Manual Integrations
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#13

Acetone

Concen: 2.071 ug/l

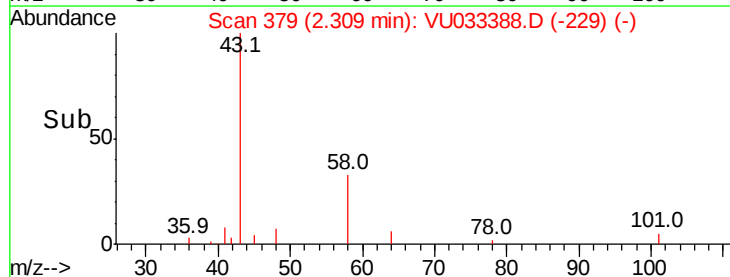
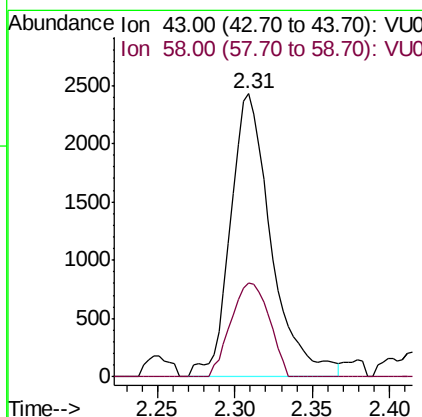
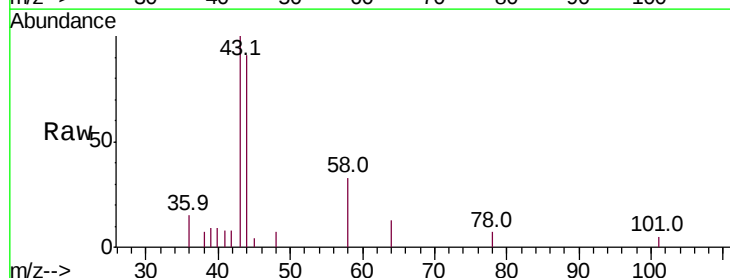
RT: 2.31 min Scan# 379

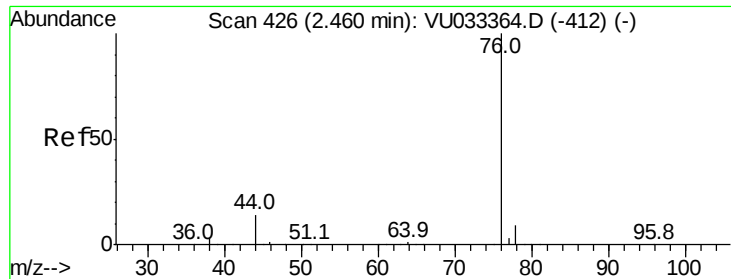
Delta R.T. -0.02 min

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

Tot Ion: 76 Resp: 9259

Ion Ratio Lower Upper

76 100

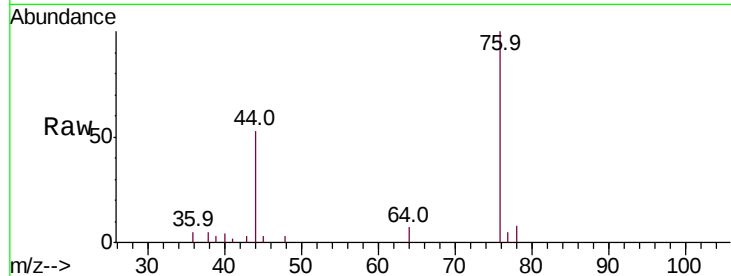
78 7.8 7.1 10.7

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Abundance Ion 76.00 (75.70 to 76.70): VU033364.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU033364.D (-412) (-)

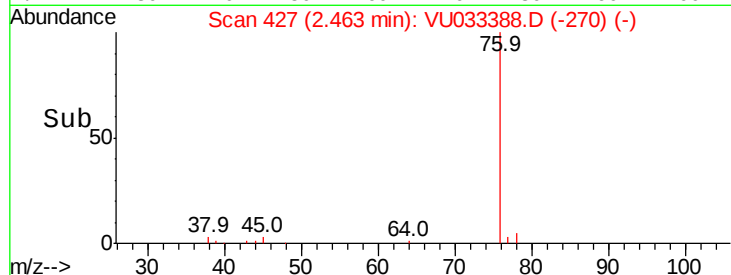
6000

4000

2000

0

Time-->



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

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

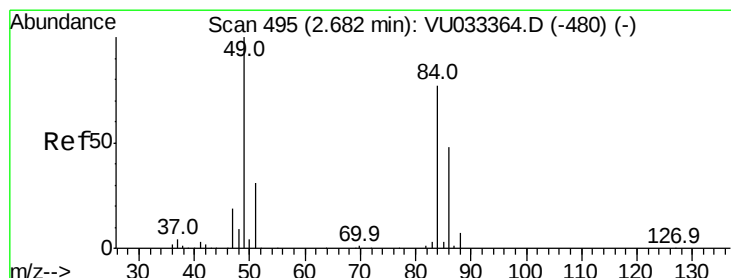
6000

4000

2000

0

Time-->



#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

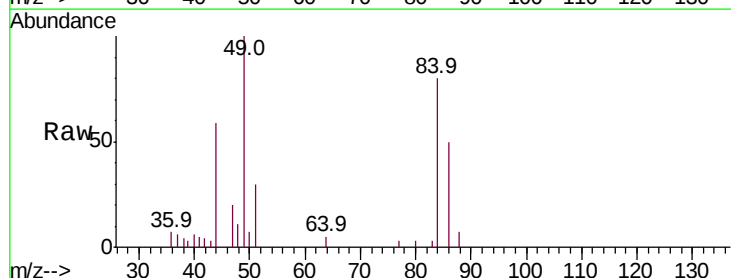
Ion Ratio Lower Upper

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): VU033364.D (-480) (-)

Ion 49.00 (48.70 to 49.70): VU033364.D (-480) (-)

Ion 51.00 (50.70 to 51.70): VU033364.D (-480) (-)

Ion 86.00 (85.70 to 86.70): VU033364.D (-480) (-)

6000

5000

4000

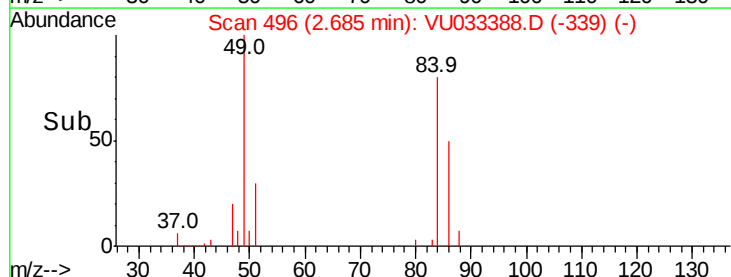
3000

2000

1000

0

Time-->



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) (-)

6000

5000

4000

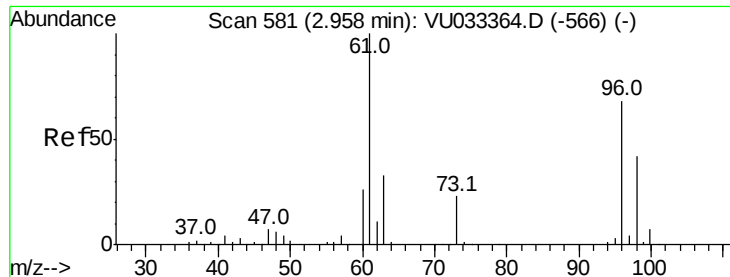
3000

2000

1000

0

Time-->



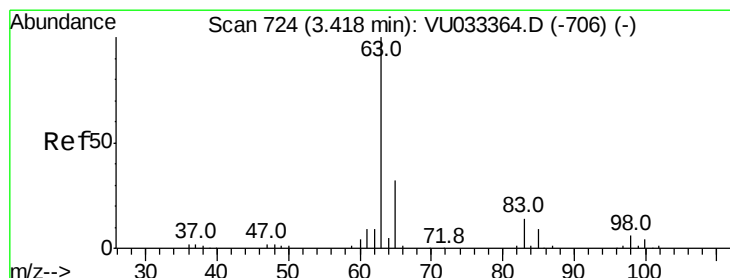
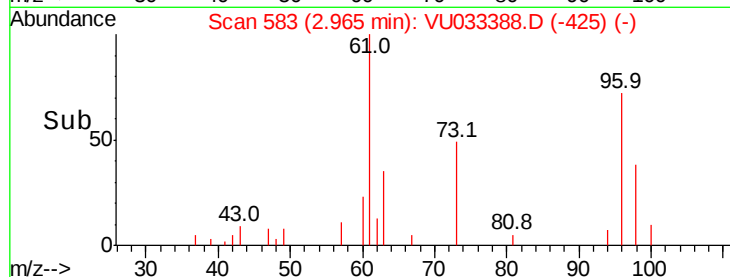
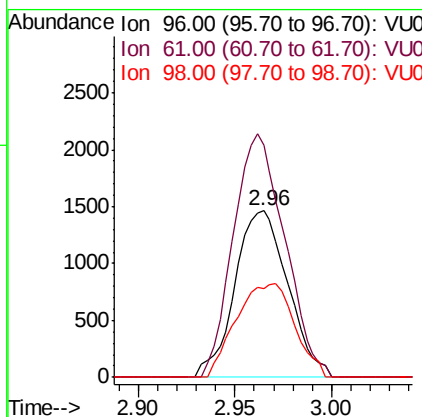
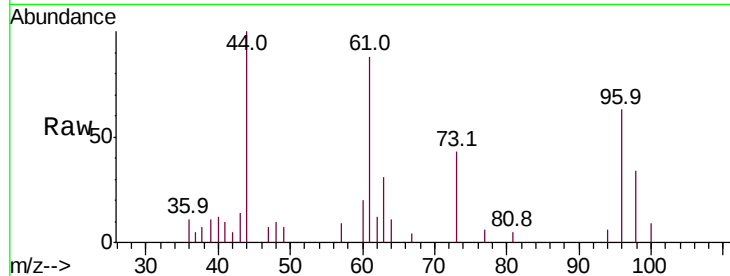
#16
trans-1,2-Dichloroethene
Concen: 0.260 ug/l
RT: 2.96 min Scan# 583
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

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

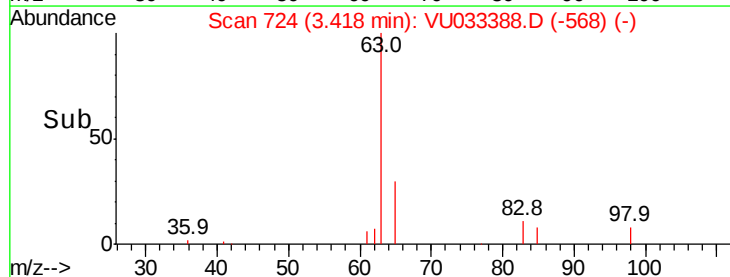
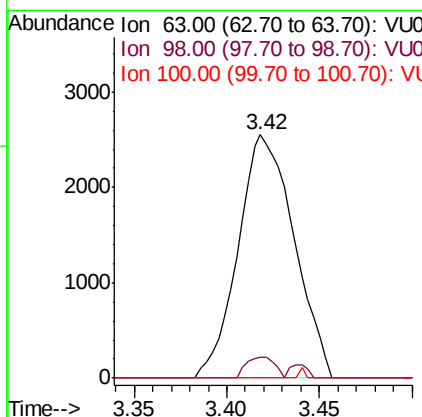
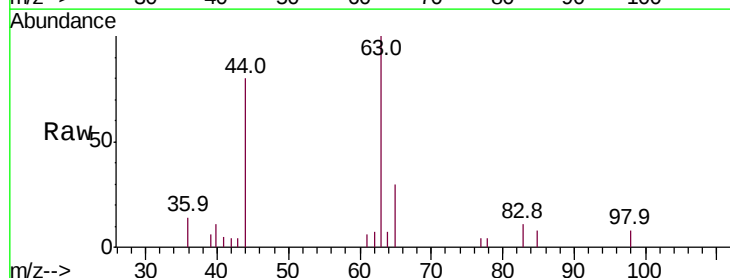
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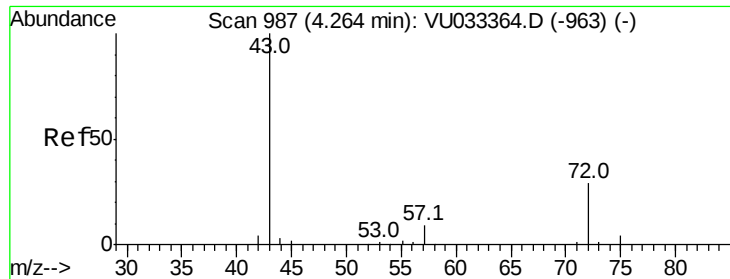
MMDadoda
7/25/2019 12:13:10 PM



#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#





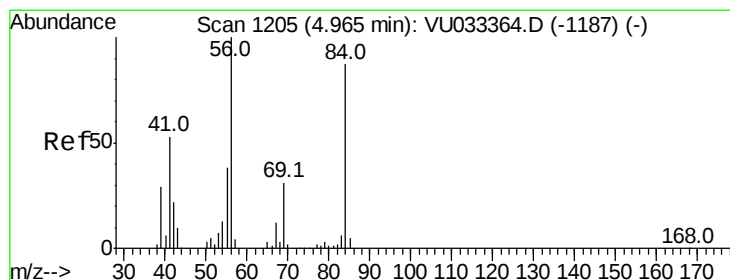
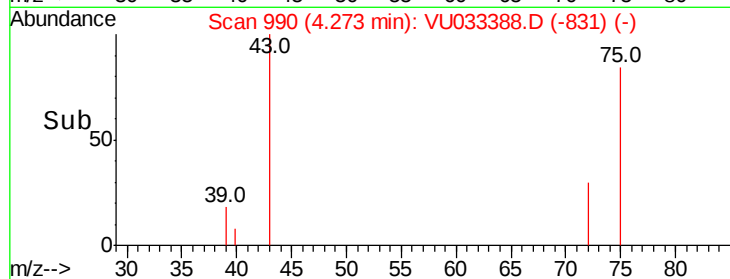
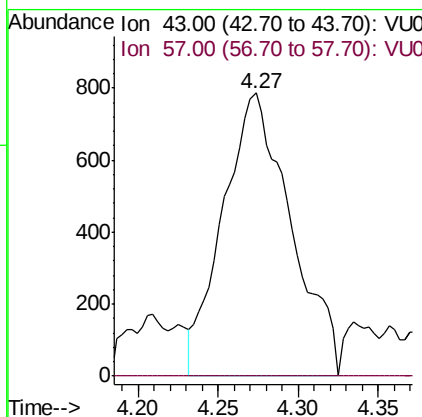
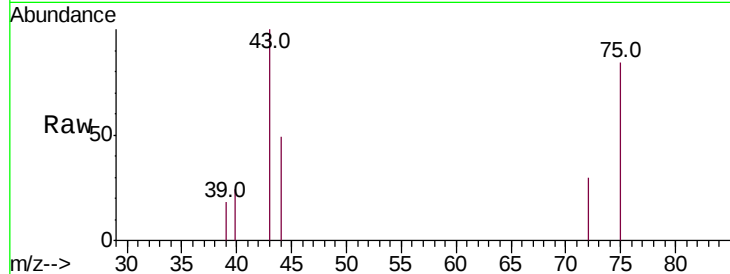
#18
2-Butanone
Concen: 1.121 ug/l
RT: 4.27 min Scan# 990
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion: 43 Resp: 2296
Ion Ratio Lower Upper
43 100
57 0.0 0.0 17.0

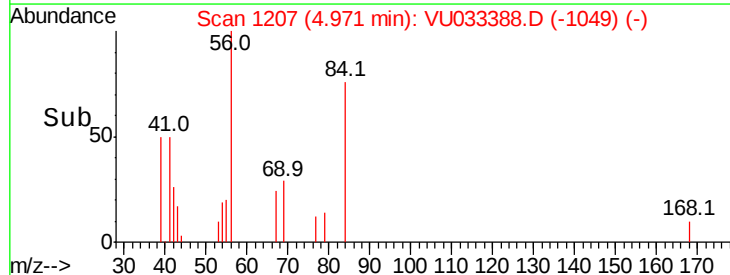
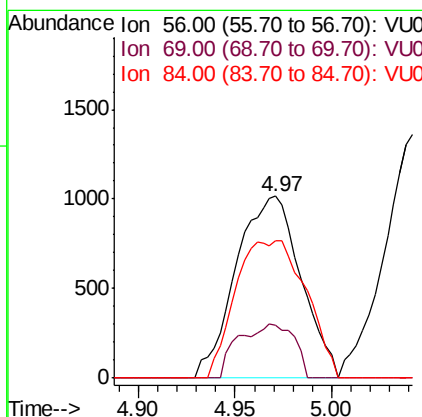
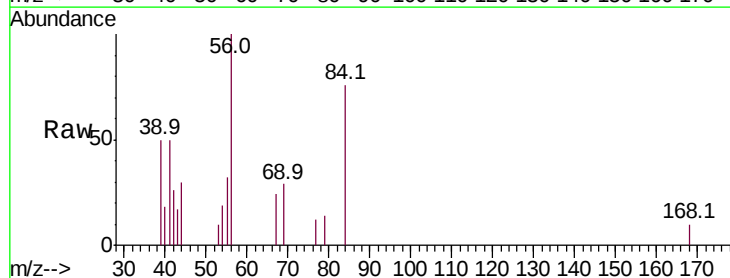
Manual Integrations
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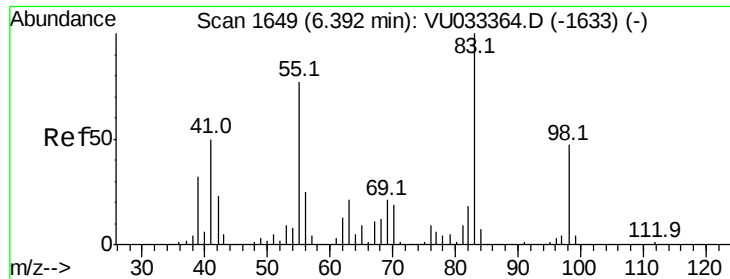
MMDadoda
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#19
Cyclohexane
Concen: 0.223 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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





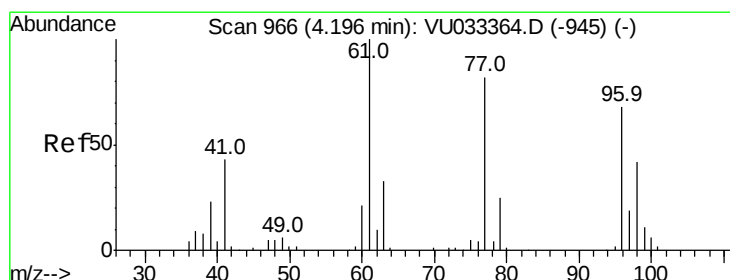
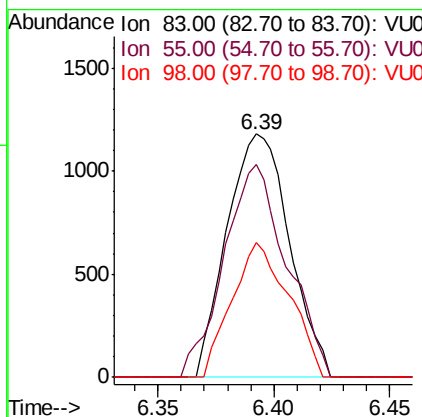
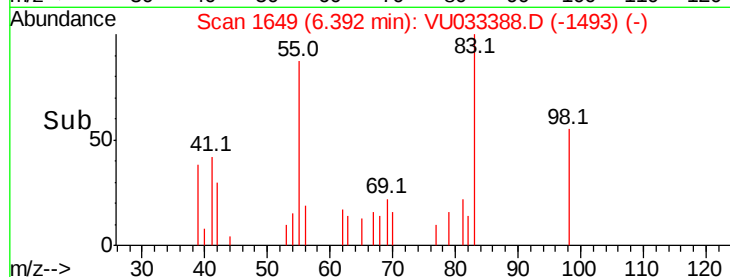
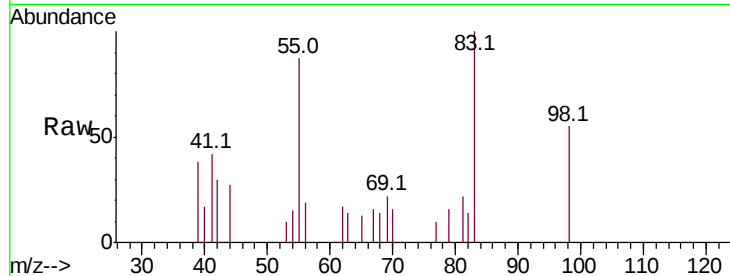
#20
Methvlcvclohexane
Concen: 0.209 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.8	62.3	93.5
98	50.5	37.4	56.0

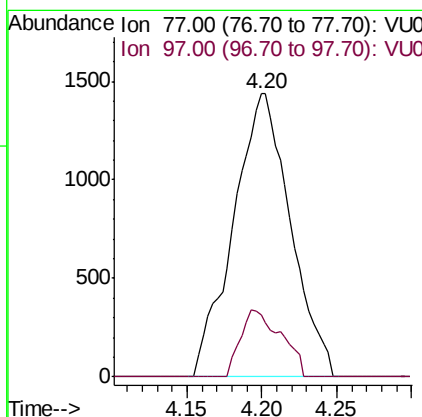
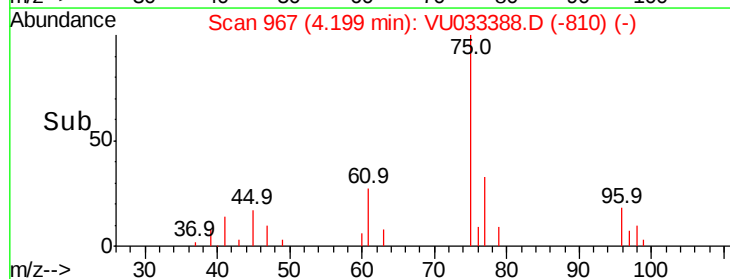
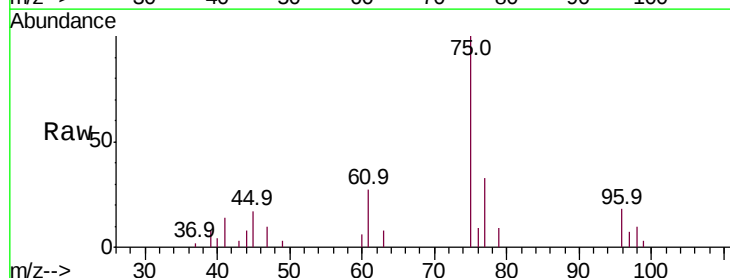
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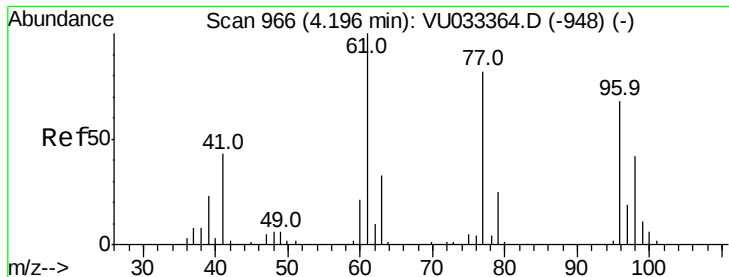
MMDadoda
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#21
2,2-Dichloropropane
Concen: 0.314 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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





#22

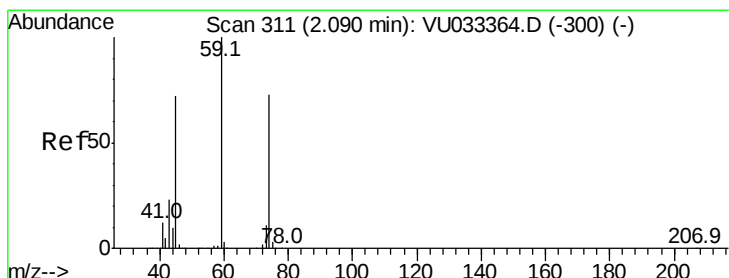
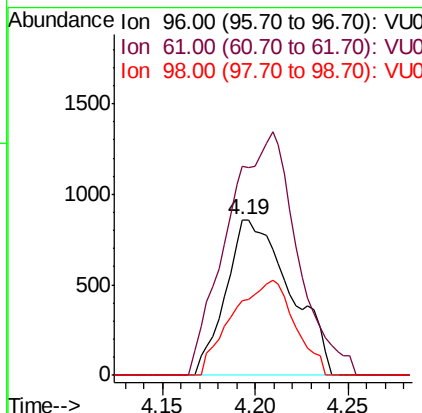
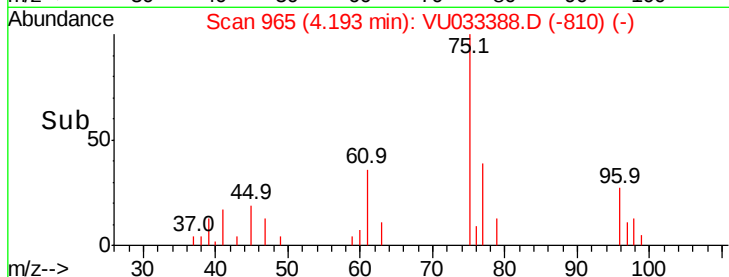
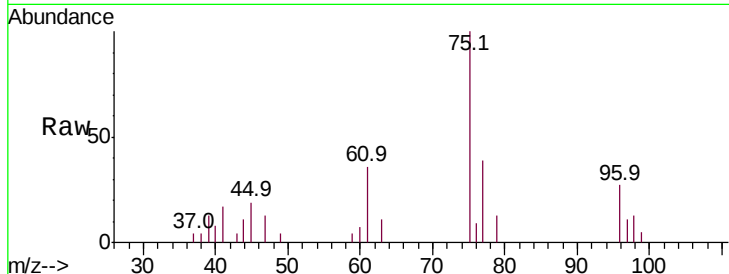
cis-1,2-Dichloroethene
Concen: 0.256 ug/l
RT: 4.19 min Scan# 965
Delta R.T. -0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	168.5	0.0	376.3
98	59.1	31.9	95.9

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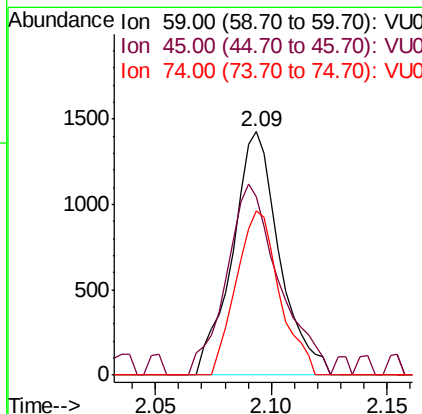
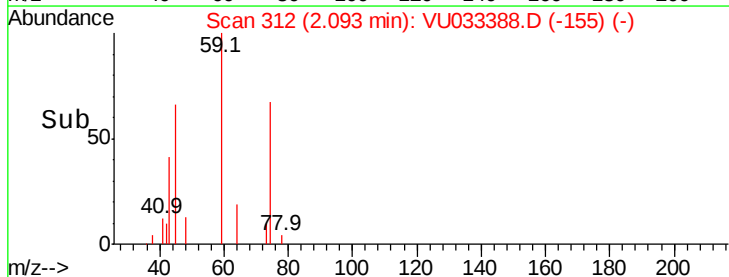
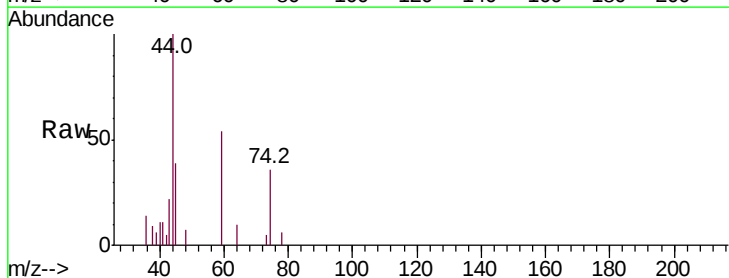
MMDadoda
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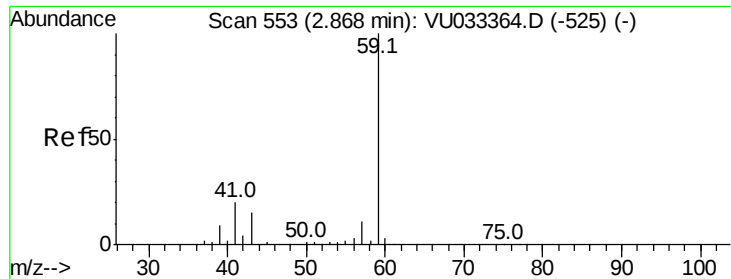


#23

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	Ratio	Lower	Upper
59	100		
45	87.8	57.6	86.4#
74	61.9	57.8	86.6





#24

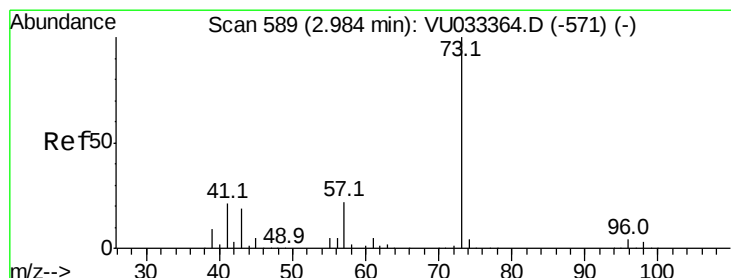
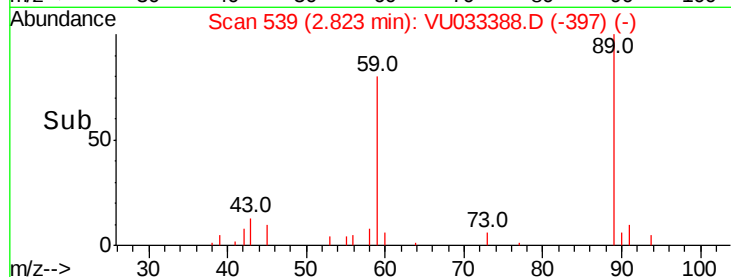
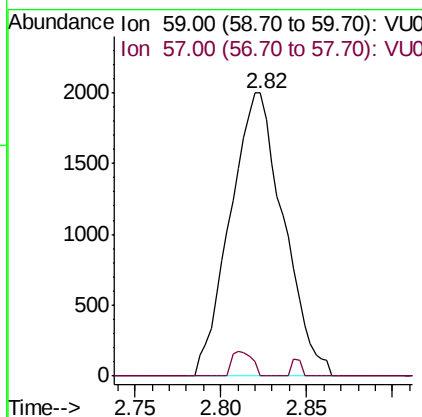
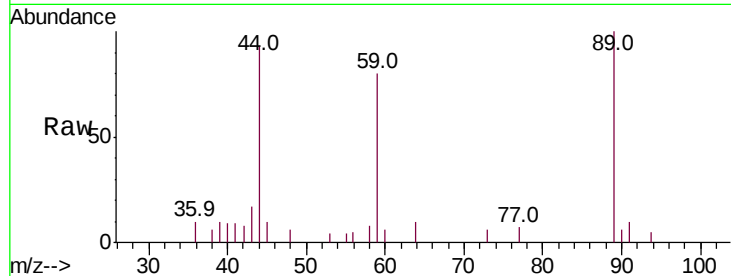
tert-Butyl Alcohol
Concen: 3.608 ug/l
RT: 2.82 min Scan# 539
Delta R.T. -0.04 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

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

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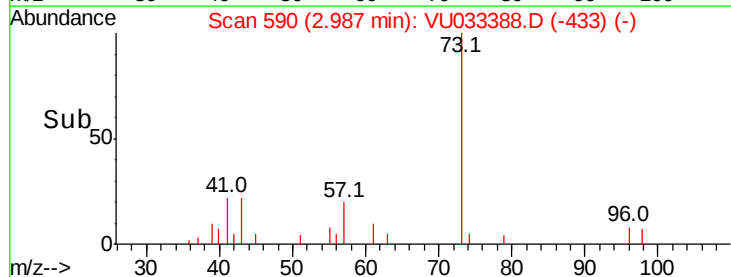
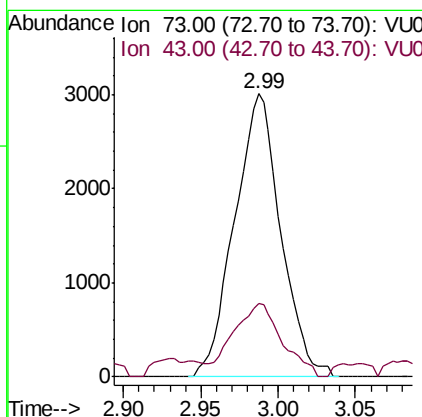
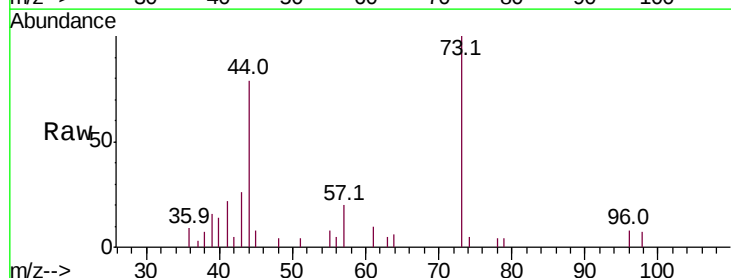
MMDadoda
7/25/2019 12:13:10 PM

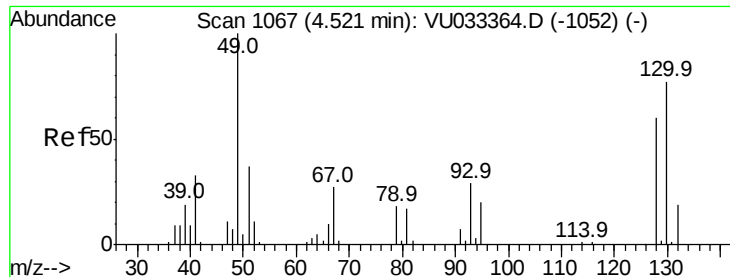


#25

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#





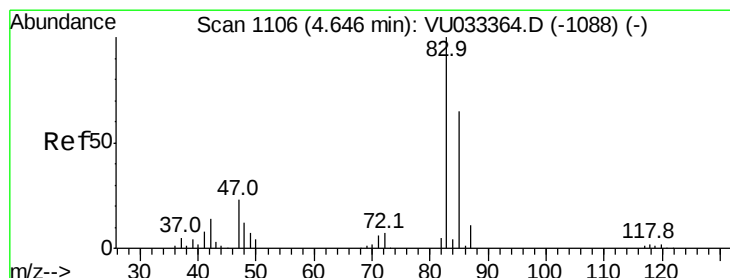
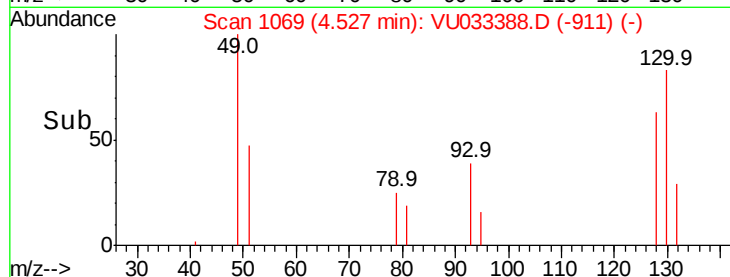
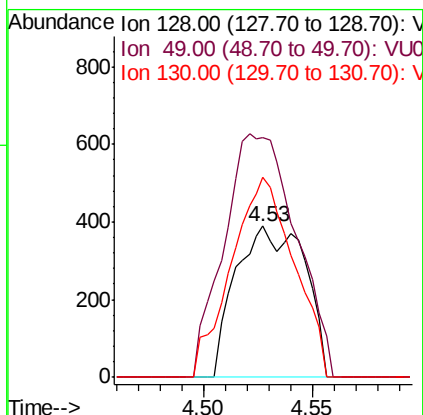
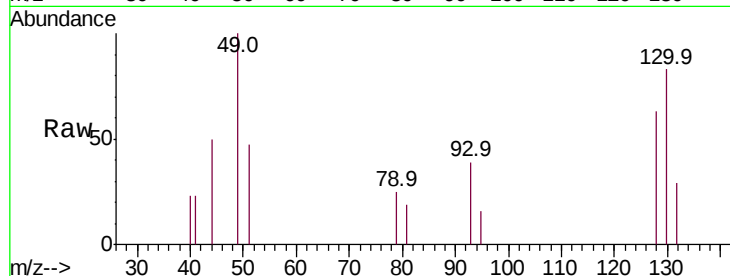
#26
Bromochloromethane
Concen: 0.240 ug/l m
RT: 4.53 min Scan# 1069
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
128	100		
49	167.9	0.0	333.4
130	120.4	103.4	155.2

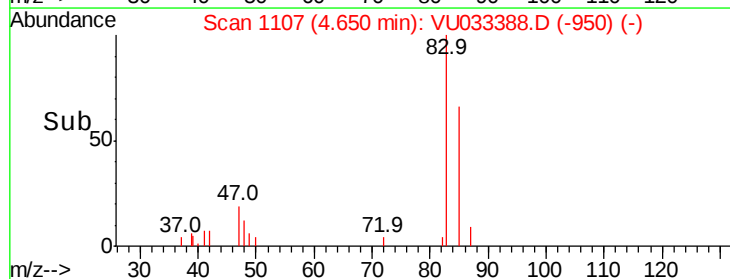
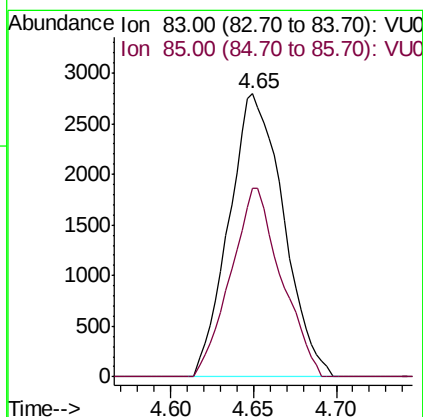
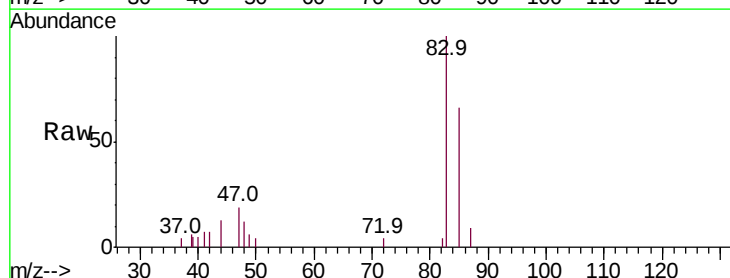
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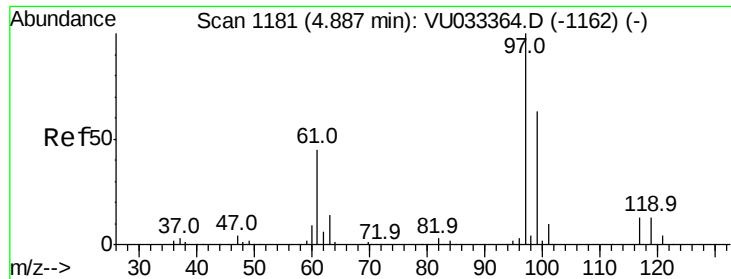
MMDadoda
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#27
Chloroform
Concen: 0.389 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt 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

Instrument :

MSVOA_U

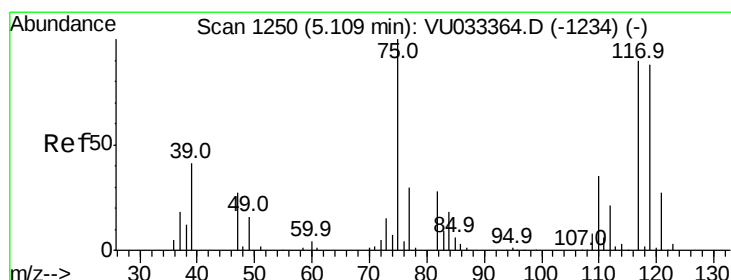
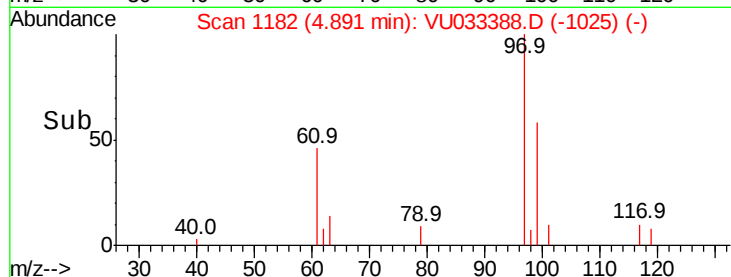
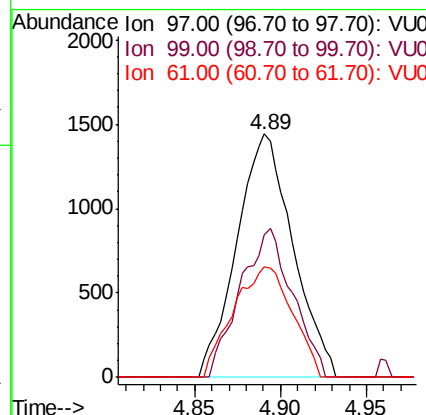
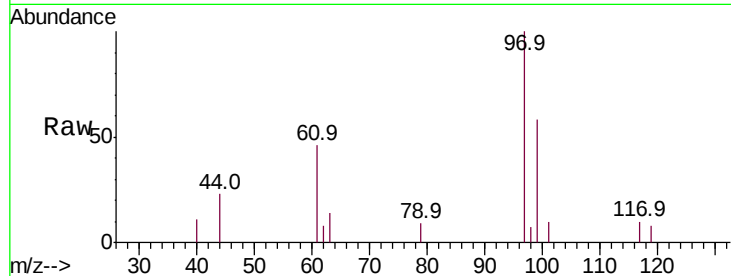
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

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

Manual Integrations
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7/25/2019 12:13:10 PM



#29

1,1-Dichloropropene

Concen: 0.235 ug/l

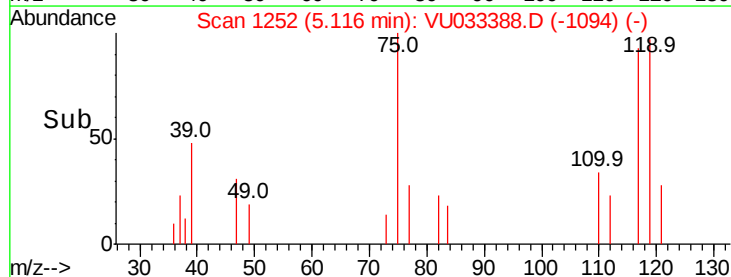
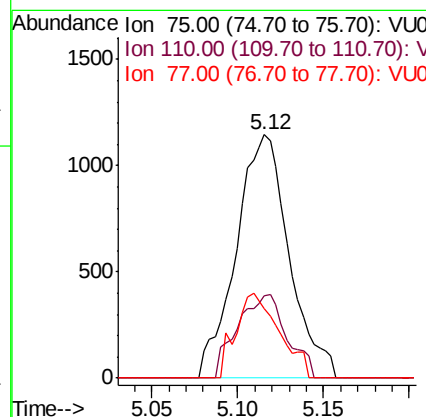
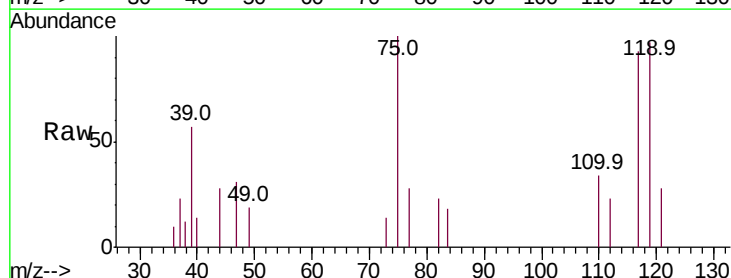
RT: 5.12 min Scan# 1252

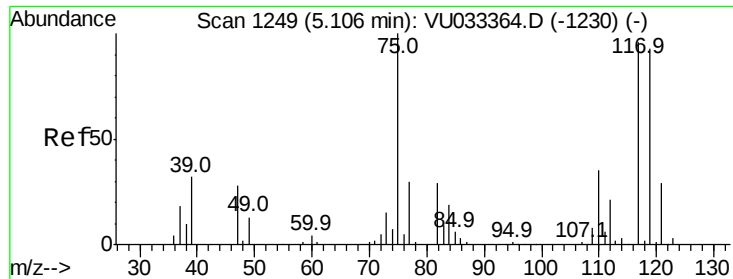
Delta R.T. 0.01 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

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





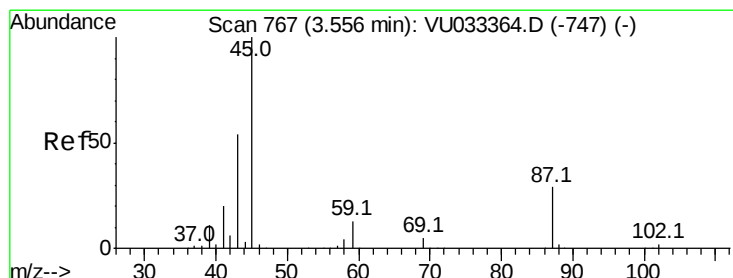
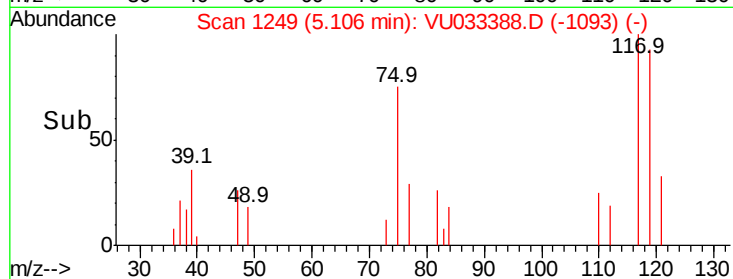
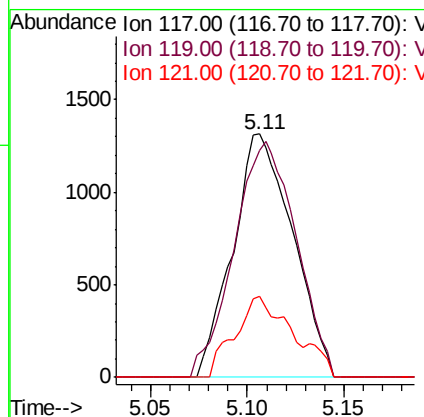
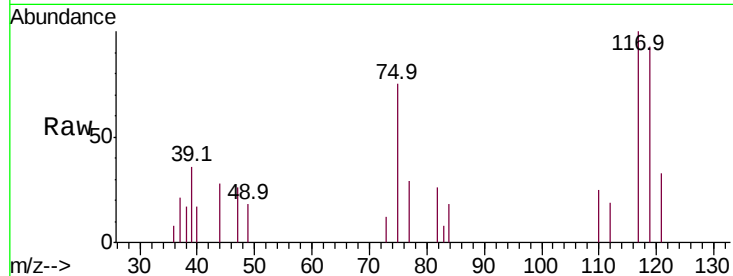
#30
Carbon Tetrachloride
Concen: 0.254 ug/l
RT: 5.11 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion:117 Resp: 2838
Ion Ratio Lower Upper
117 100
119 93.2 77.9 116.9
121 33.1 24.0 36.0

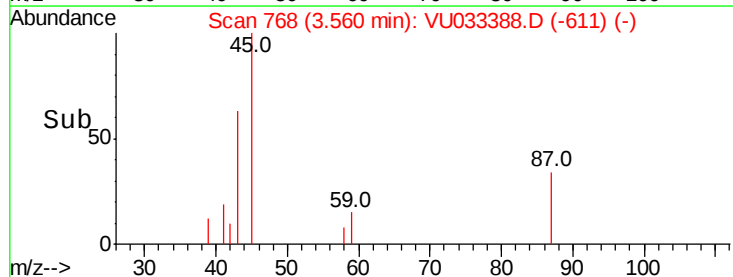
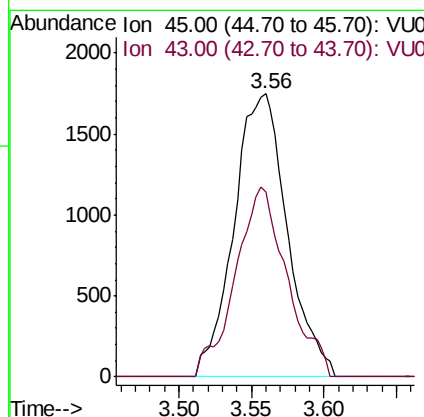
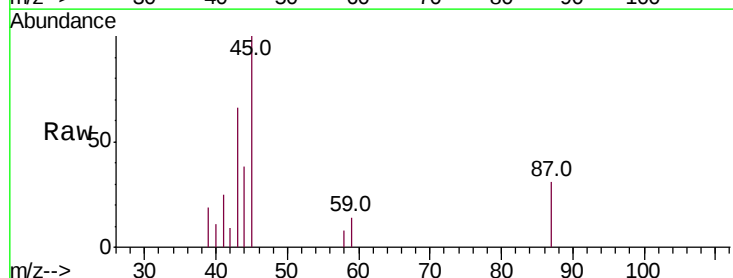
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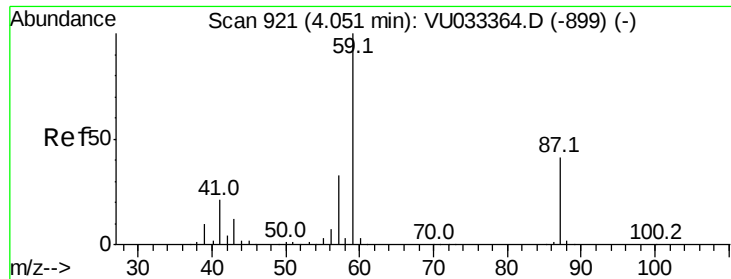
MMDadoda
7/25/2019 12:13:10 PM



#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

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

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 59 Resp: 3841

Ion Ratio Lower Upper

59 100

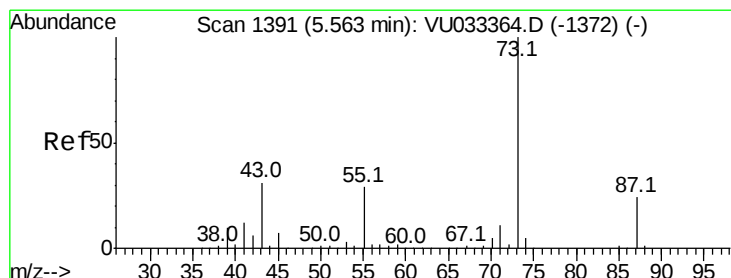
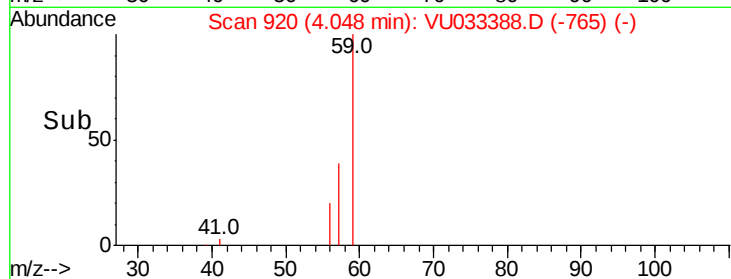
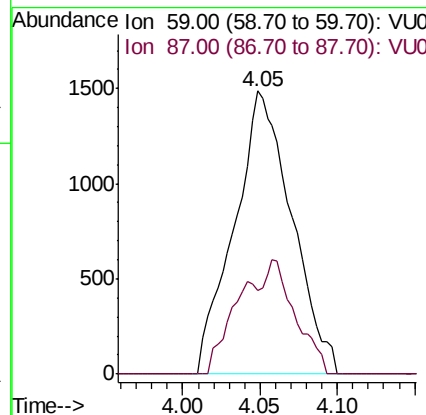
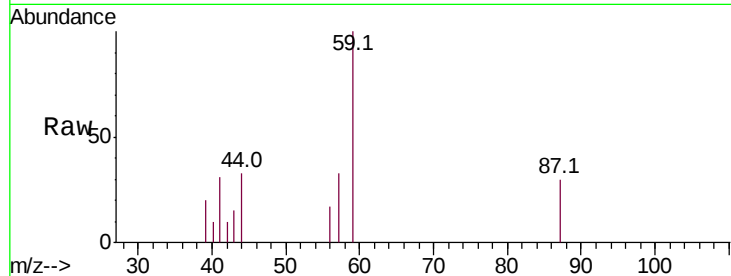
87 16.6 33.8 50.6#

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#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

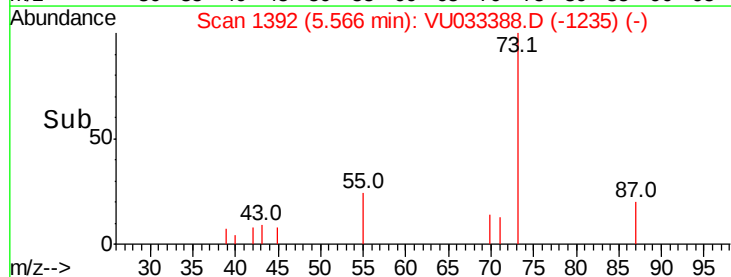
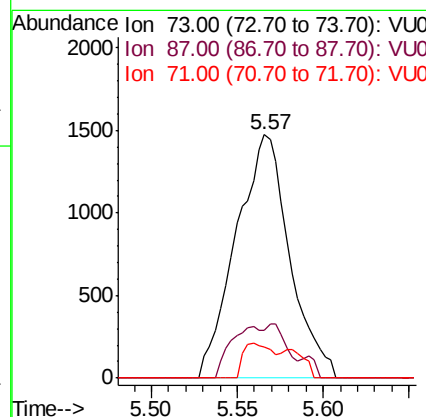
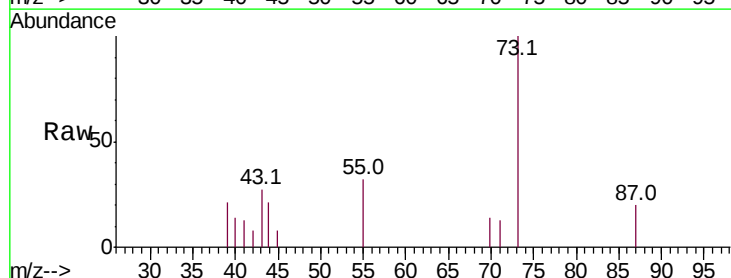
Tgt Ion: 73 Resp: 3189

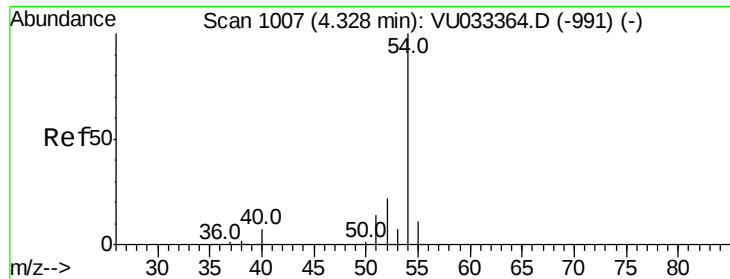
Ion Ratio Lower Upper

73 100

87 11.8 18.9 28.3#

71 7.7 9.3 13.9#





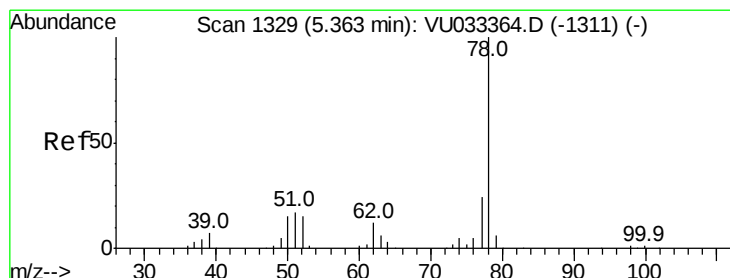
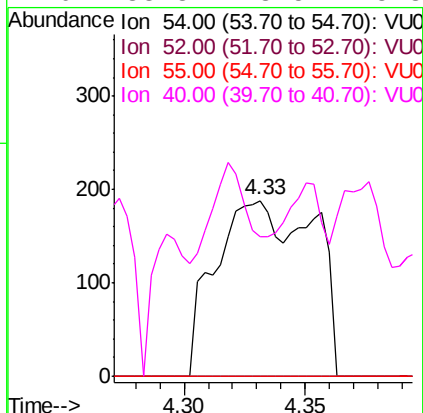
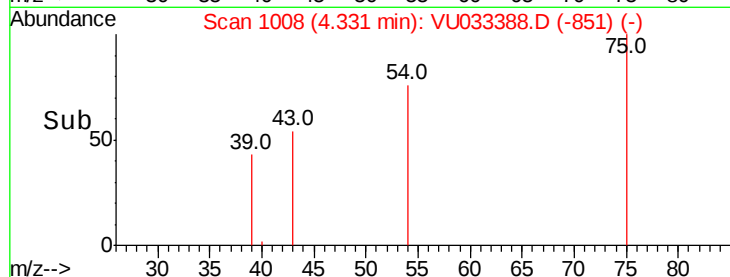
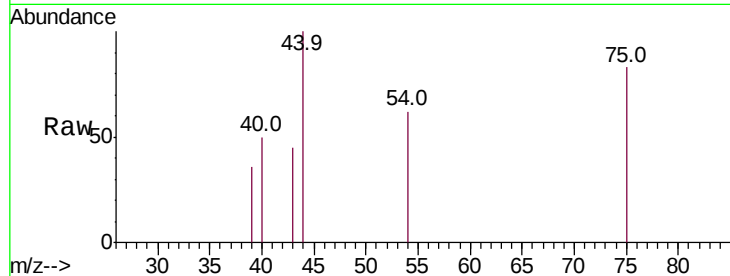
#34
 Propionitrile
 Concen: 0.898 ug/l m
 RT: 4.33 min Scan# 1008
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

Tot Ion: 54 Resp: 528
 Ion Ratio Lower Upper
 54 100
 52 0.0 17.1 25.7#
 55 0.0 11.6 17.4#
 40 38.8 3.5 5.3#

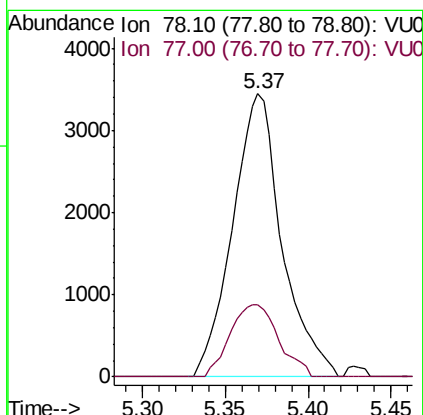
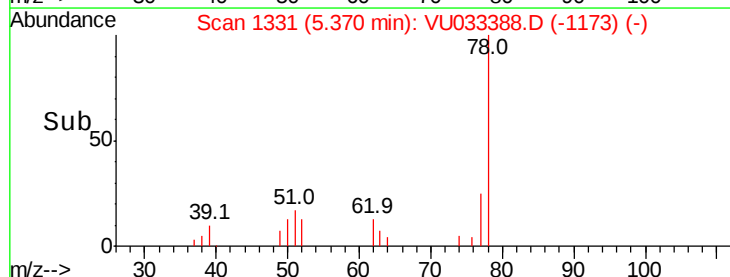
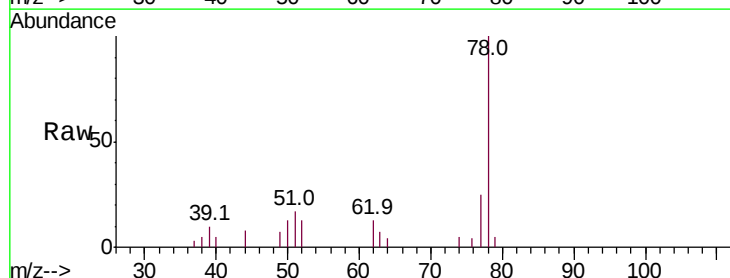
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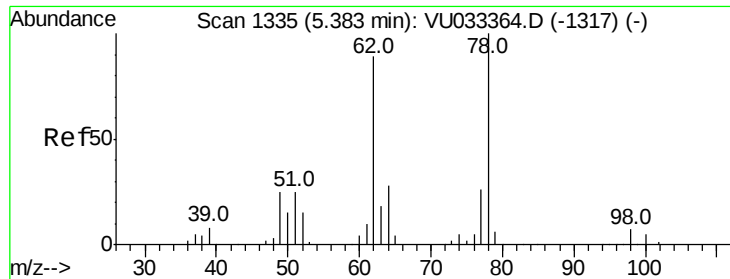
MMDadoda
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#35
 Benzene
 Concen: 0.235 ug/l
 RT: 5.37 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 78 Resp: 7123
 Ion Ratio Lower Upper
 78 100
 77 25.5 19.4 29.2





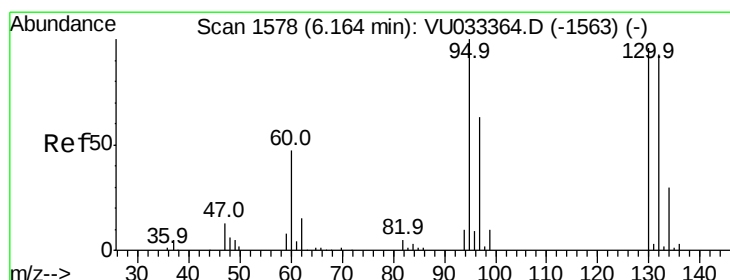
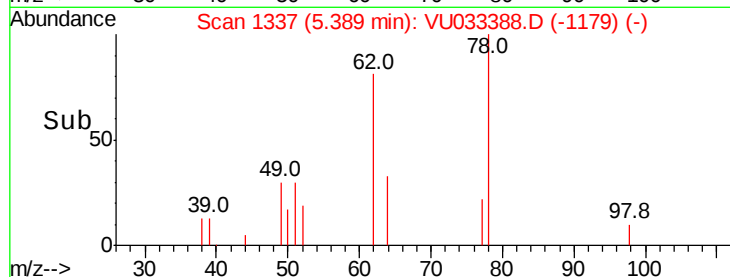
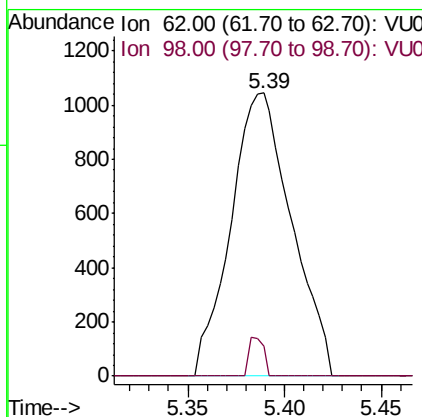
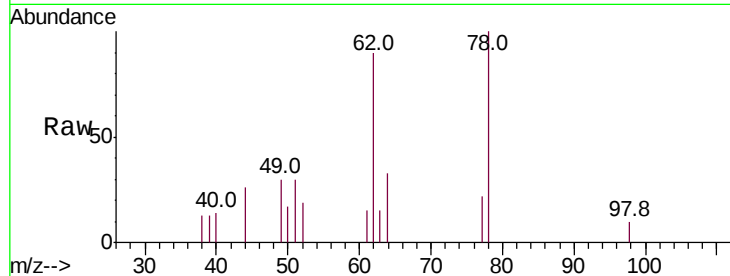
#36
1,2-Dichloroethane
Concen: 0.226 ug/l
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion: 62 Resp: 2282
Ion Ratio Lower Upper
62 100
98 3.4 6.5 9.7#

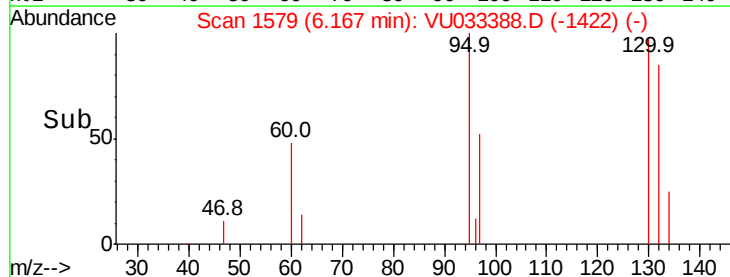
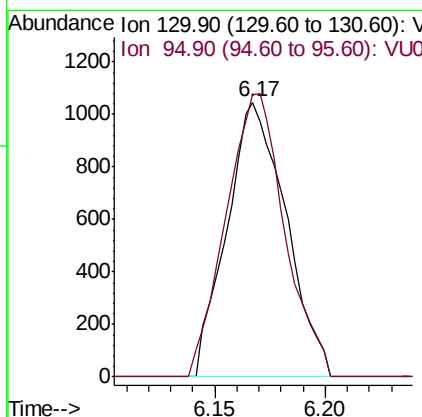
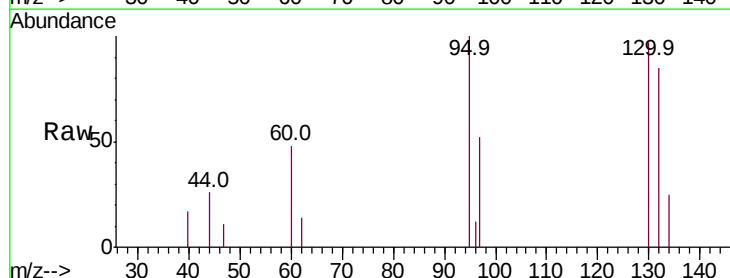
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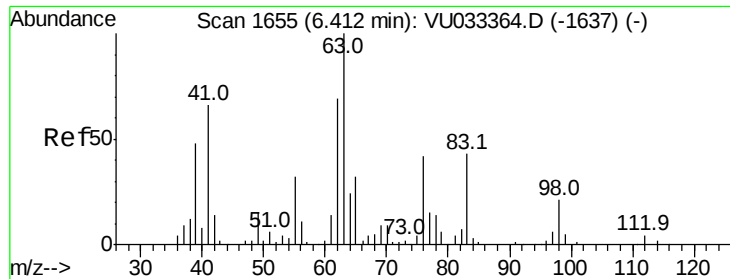
MMDadoda
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#37
Trichloroethene
Concen: 0.243 ug/l
RT: 6.17 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion:130 Resp: 1942
Ion Ratio Lower Upper
130 100
95 102.8 83.4 125.0





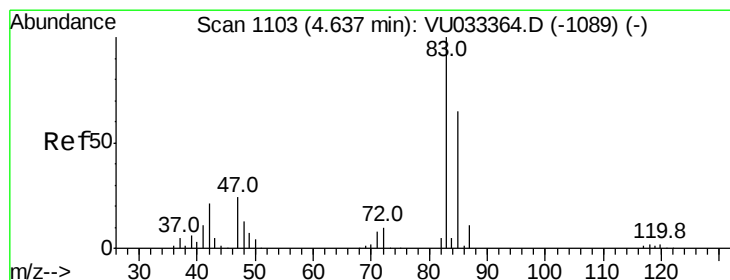
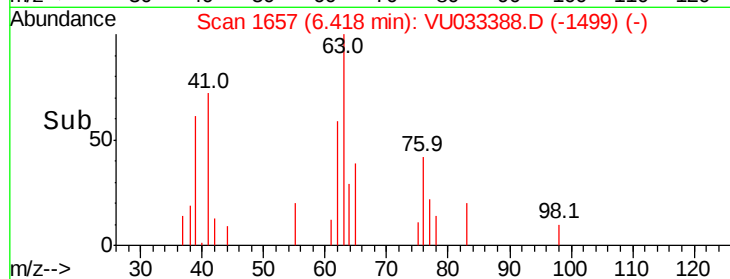
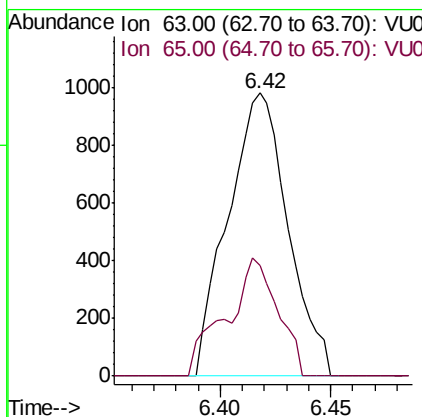
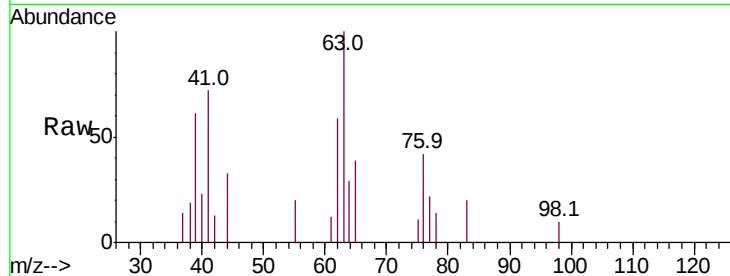
#38
 1,2-Dichloropropane
 Concen: 0.221 ug/l
 RT: 6.42 min Scan# 1657
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

Tot Ion: 63 Resp: 1847
 Ion Ratio Lower Upper
 63 100
 65 39.0 25.7 38.5#

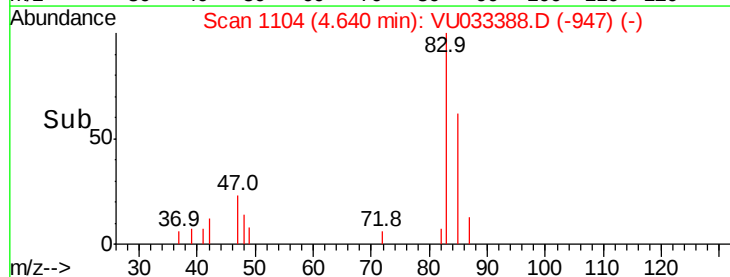
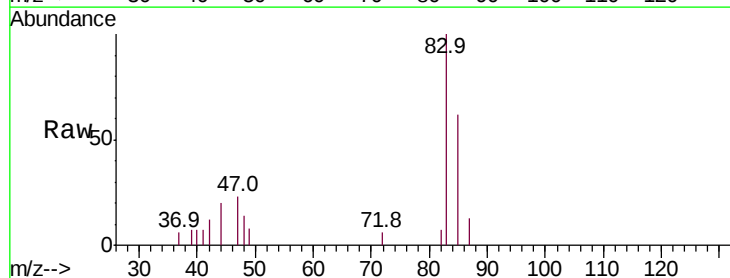
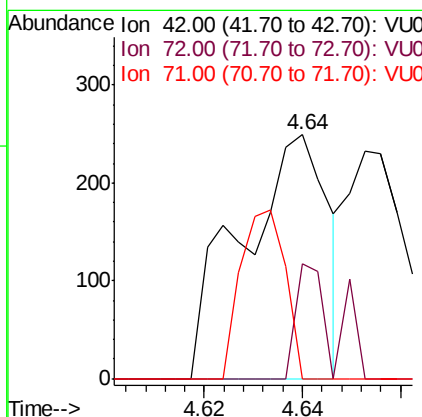
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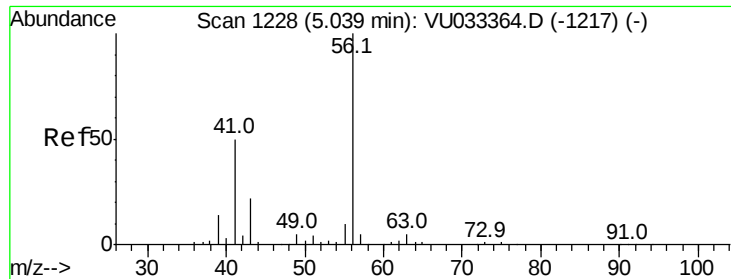
MMDadoda
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#41
 Tetrahydrofuran
 Concen: 0.262 ug/l m
 RT: 4.64 min Scan# 1104
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion: 42 Resp: 306
 Ion Ratio Lower Upper
 42 100
 72 20.6 38.7 58.1#
 71 35.3 34.6 52.0





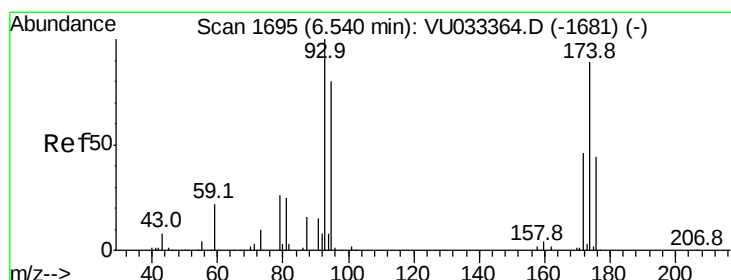
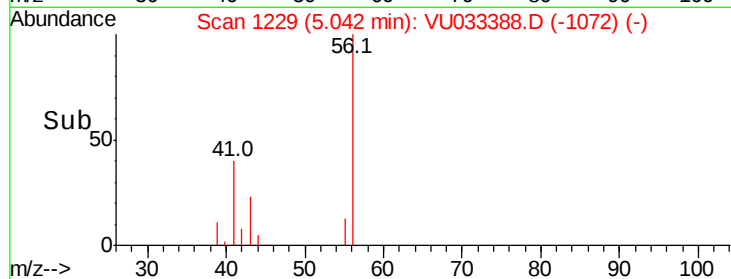
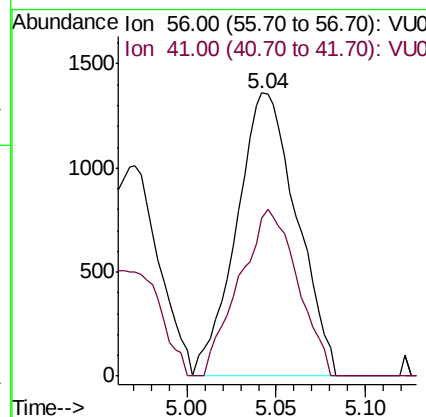
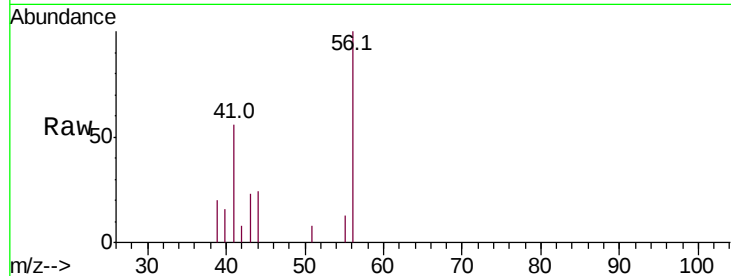
#42
1-Chlorobutane
Concen: 0.229 ug/l
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

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

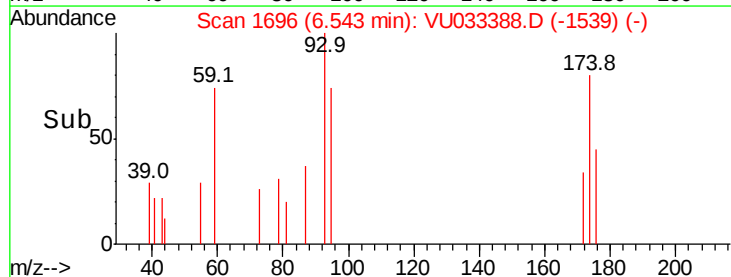
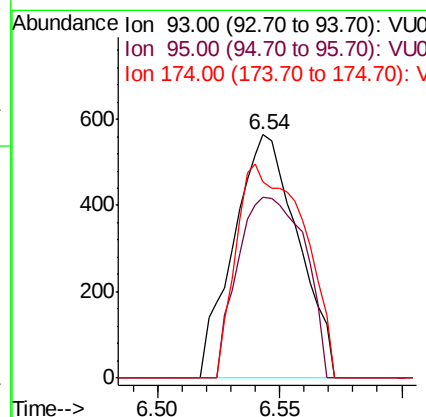
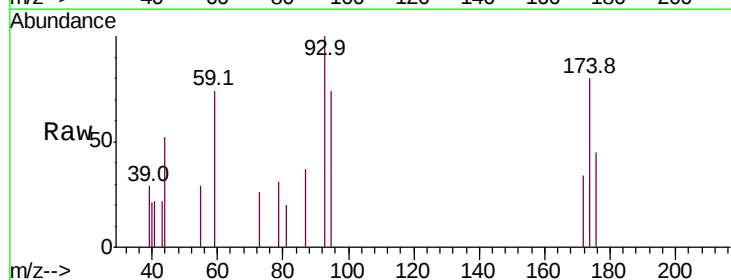
Manual Integrations
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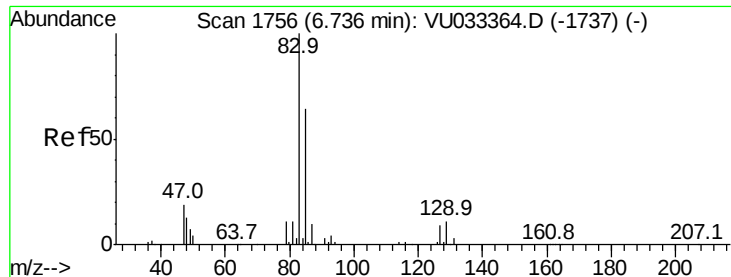
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#43
Dibromomethane
Concen: 0.223 ug/l
RT: 6.54 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

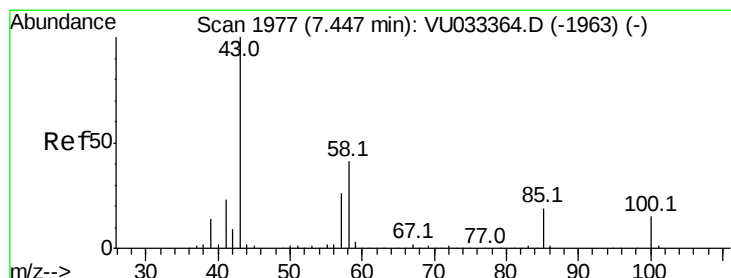
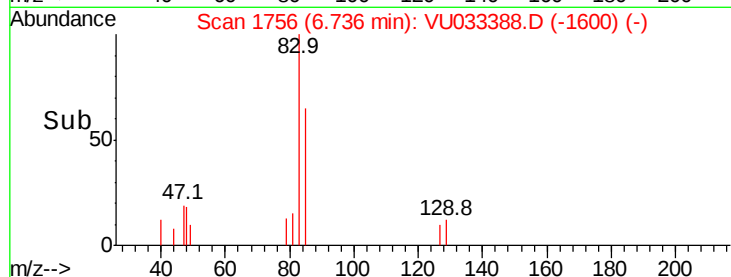
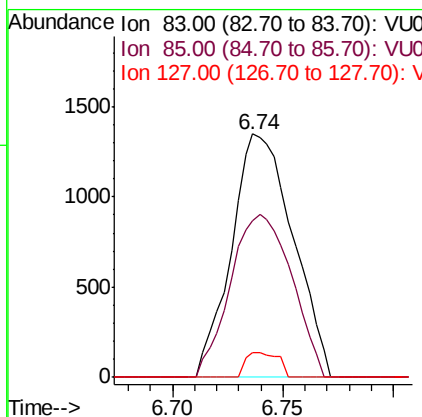
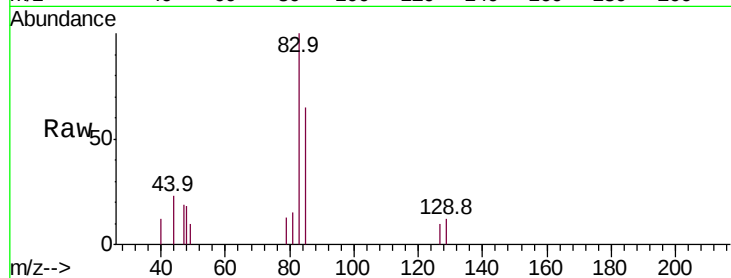
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	83	Resp:	2610
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.1	76.7
127	10.0	7.2	10.8

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#45

4-Methyl-2-Pentanone

Concen: 0.994 ug/l

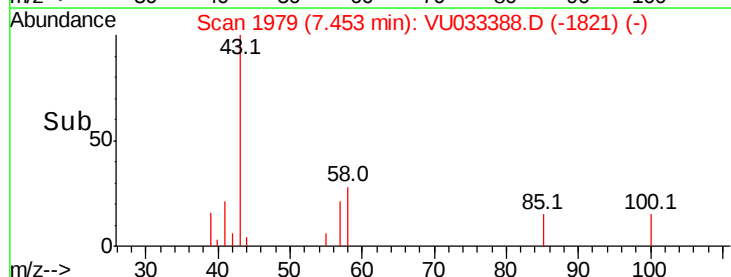
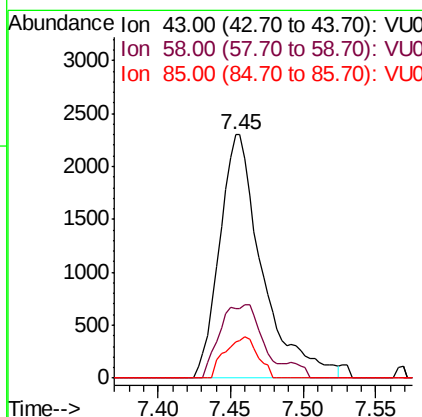
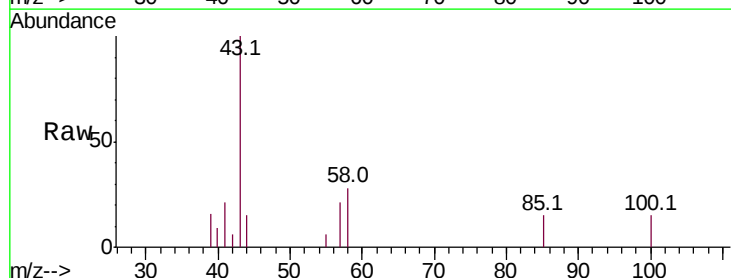
RT: 7.45 min Scan# 1979

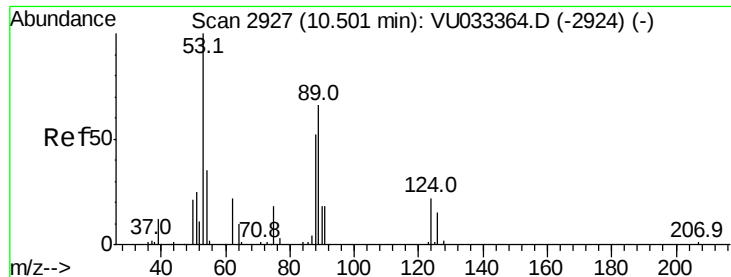
Delta R.T. 0.01 min

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#





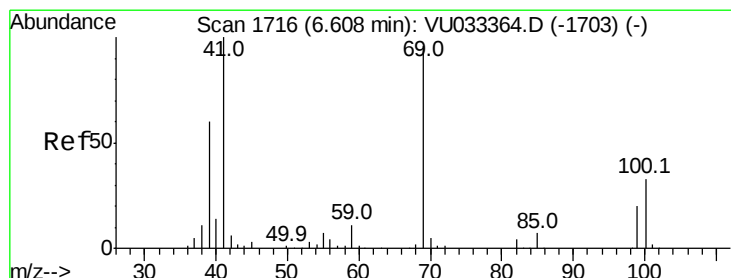
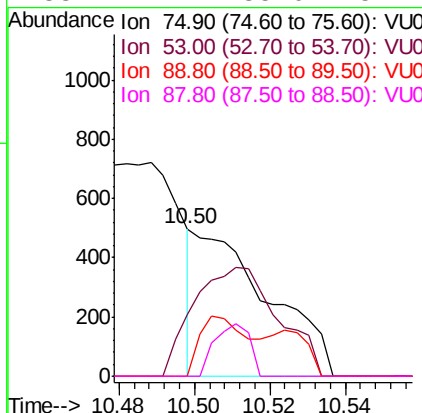
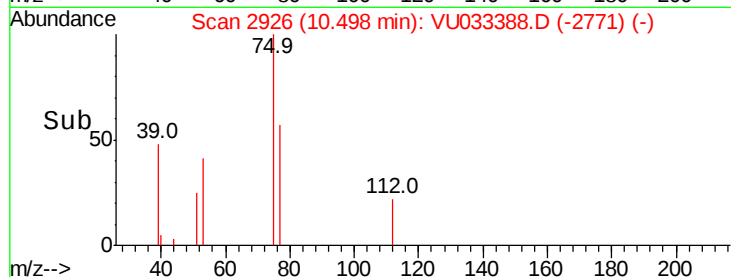
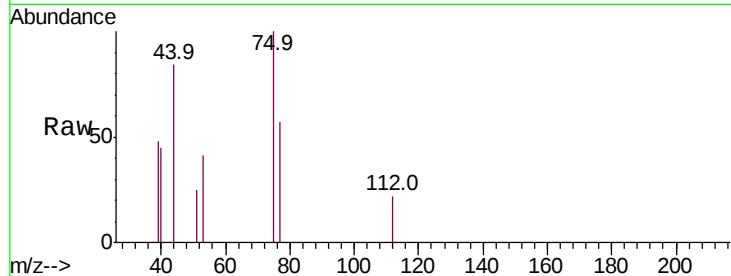
#46
t-1,4-Dichloro-2-butene
Concen: 0.347 ug/l m
RT: 10.50 min Scan# 2926
Delta R.T. -0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	86.4	62.9	94.3
89	23.9	43.0	64.4#
88	17.1	35.0	52.4#

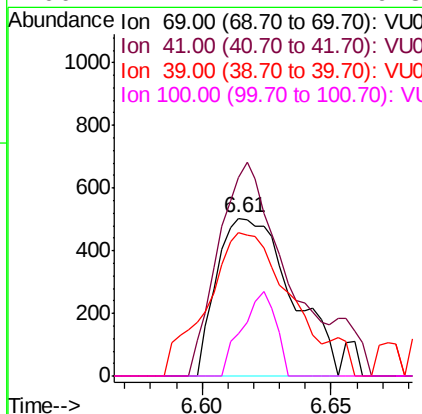
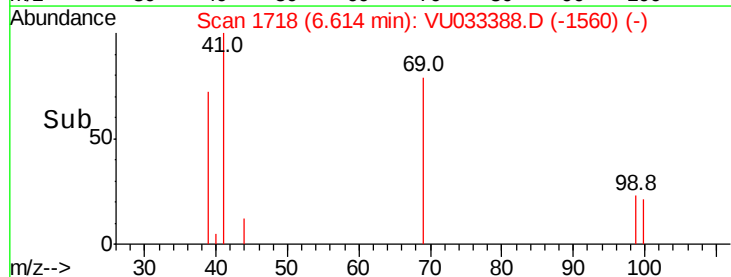
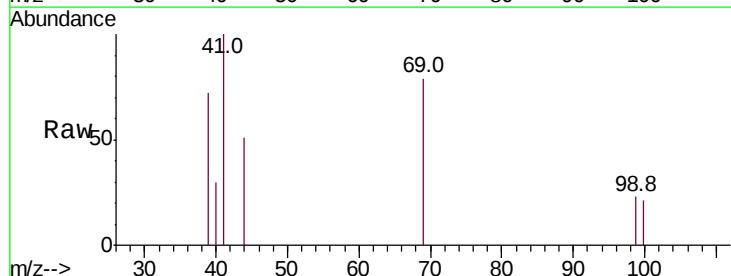
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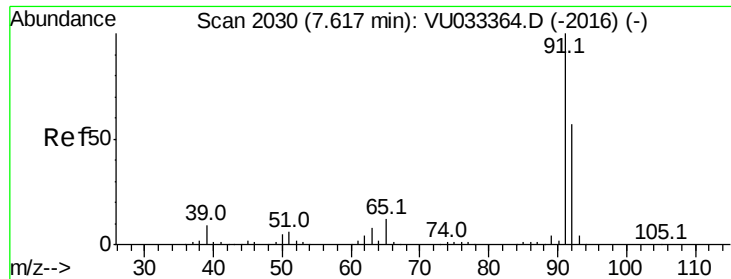
MMDadoda
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#47
Methyl methacrylate
Concen: 0.288 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion	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

Tot Ion: 92 Resp: 3481

Ion Ratio Lower Upper

92 100

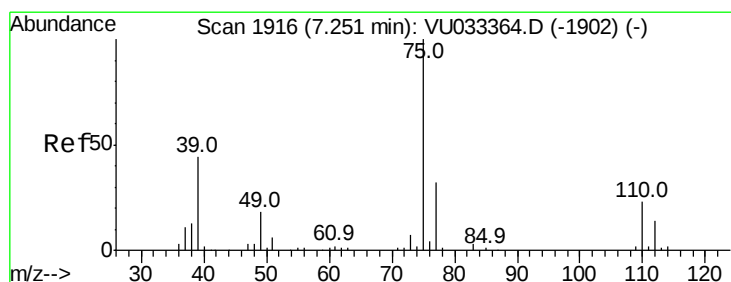
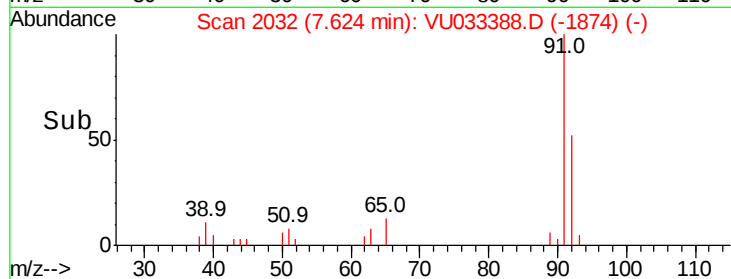
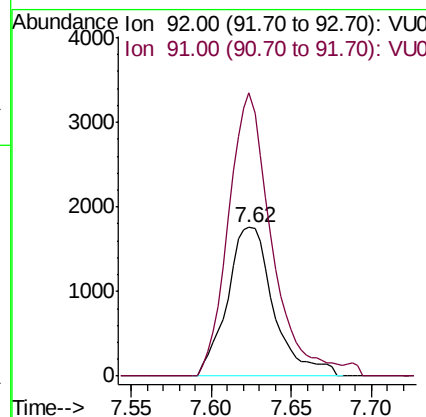
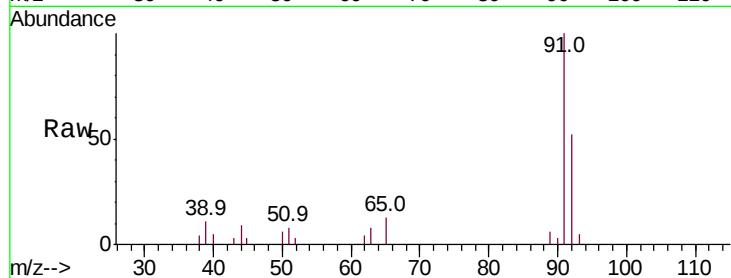
91 176.6 142.1 213.1

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#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

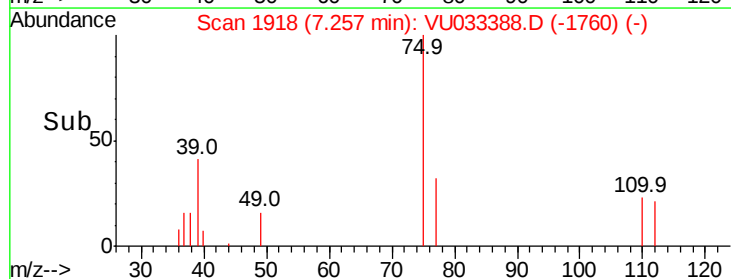
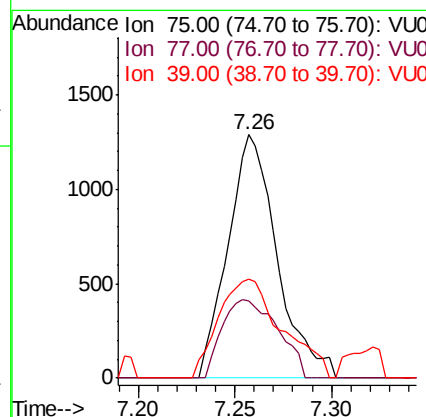
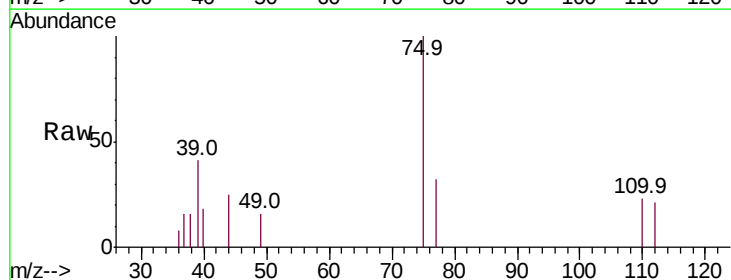
Tgt Ion: 75 Resp: 2281

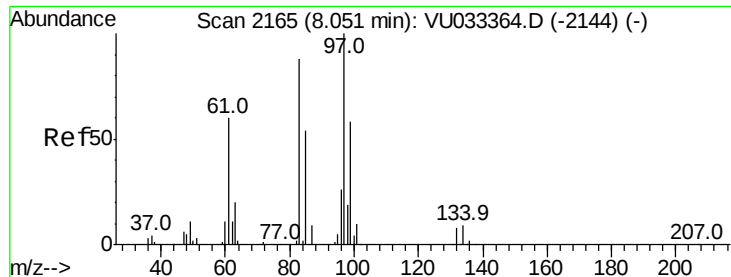
Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8

39 40.8 35.2 52.8





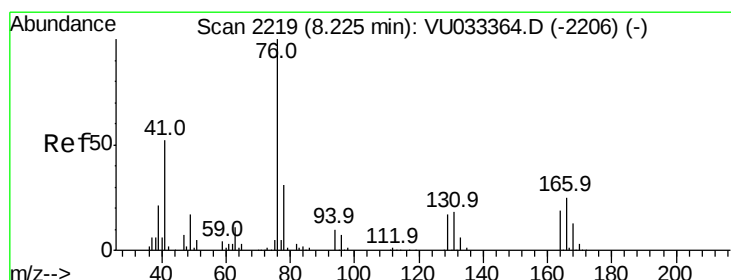
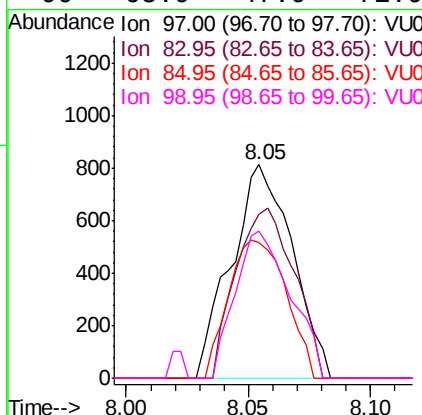
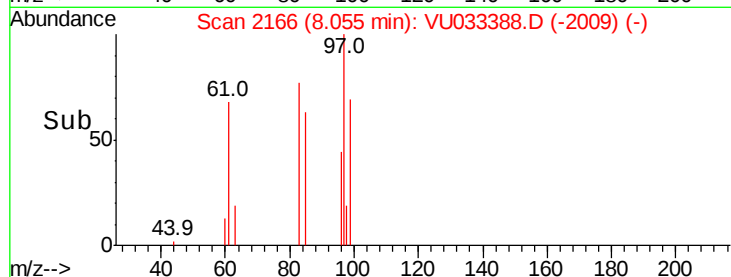
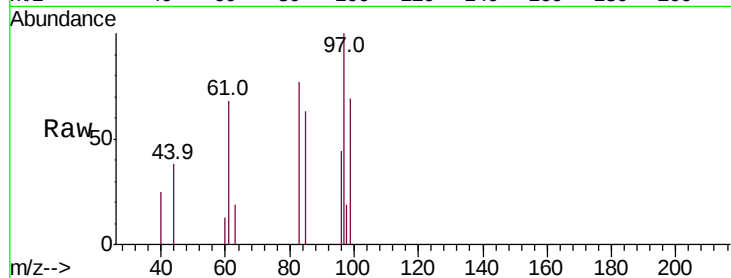
#52
 1,1,2-Trichloroethane
 Concen: 0.229 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

Tot 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

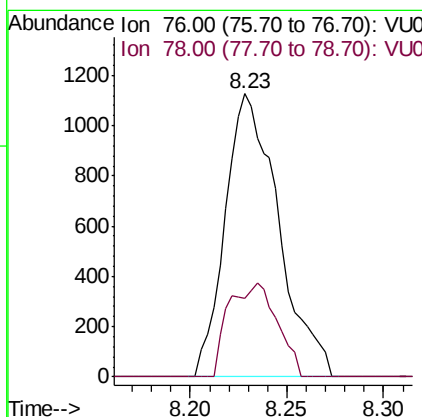
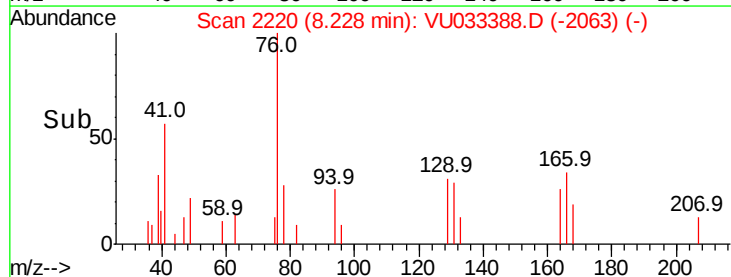
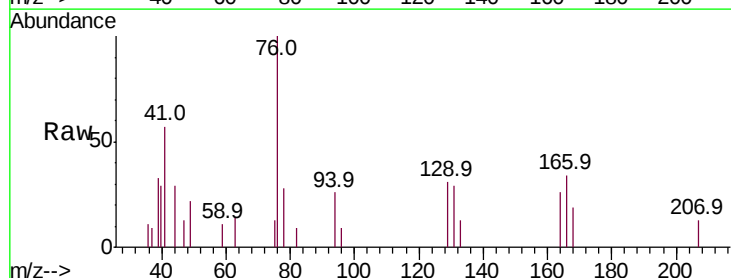
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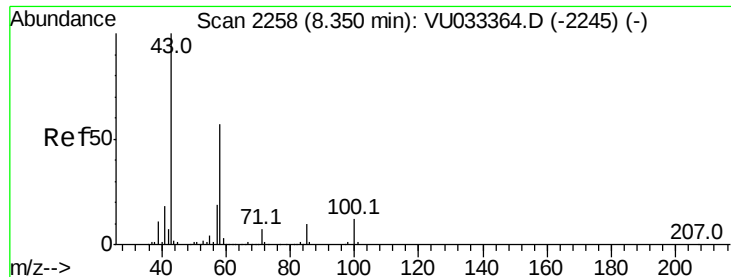
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#53
 1,3-Dichloropropane
 Concen: 0.207 ug/l
 RT: 8.23 min Scan# 2220
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

Tgt Ion	Ratio	Lower	Upper
76	100		
78	30.2	25.7	38.5





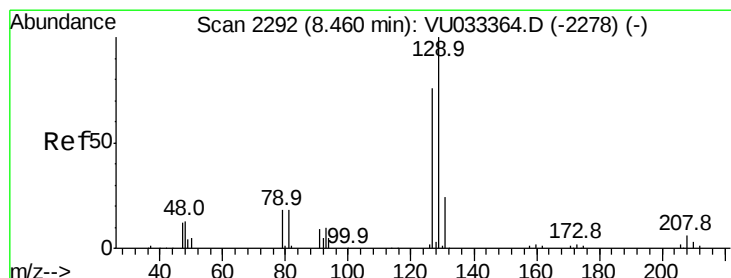
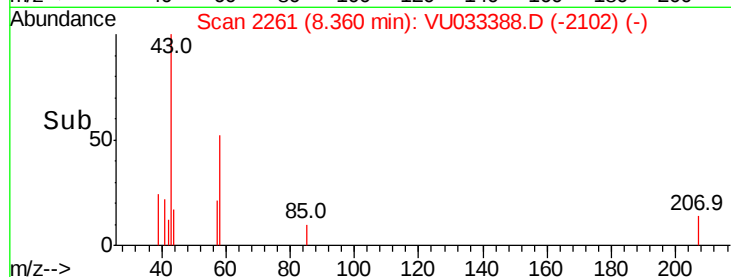
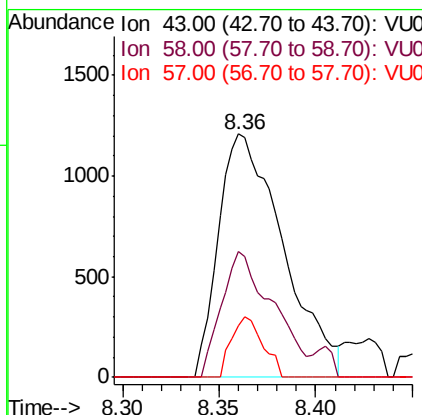
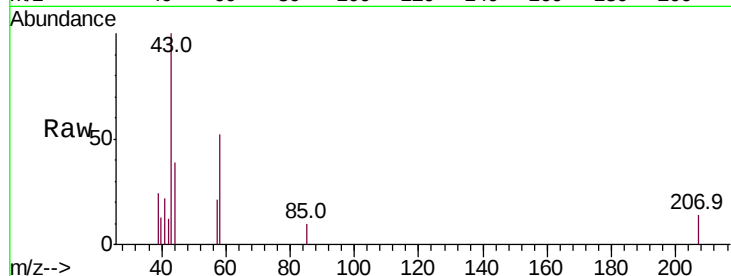
#54
2-Hexanone
Concen: 0.847 ug/l
RT: 8.36 min Scan# 2261
Delta R.T. 0.01 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.0	36.0	76.0
57	12.0	0.0	39.4

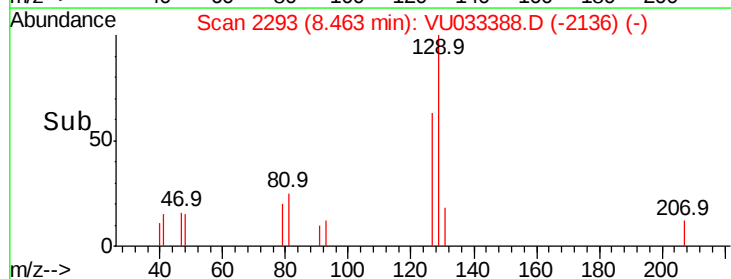
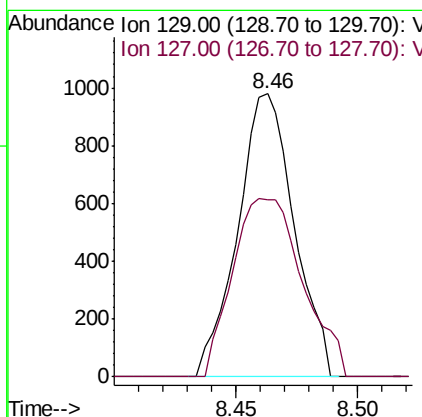
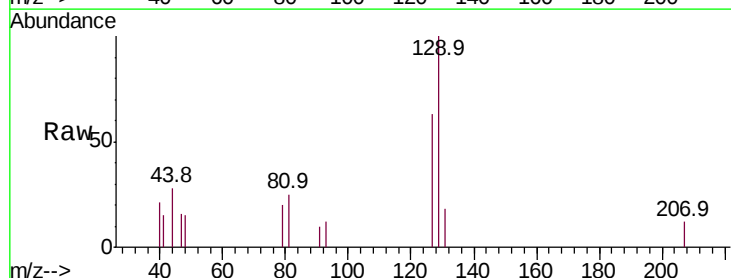
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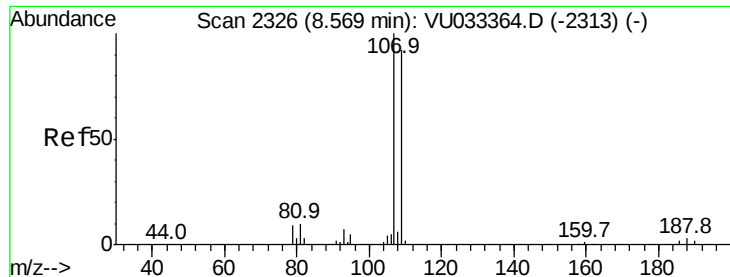
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#55
Dibromochloromethane
Concen: 0.218 ug/l
RT: 8.46 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	60.9	91.3





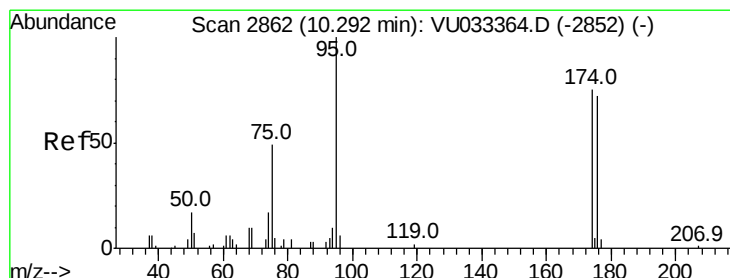
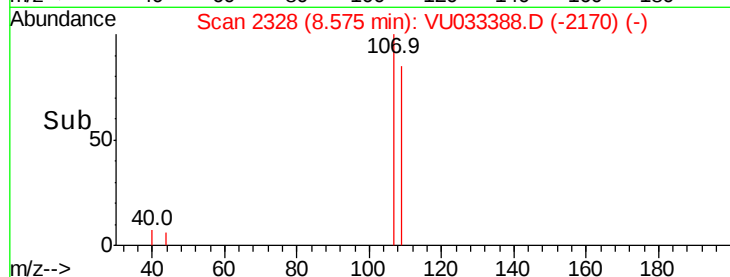
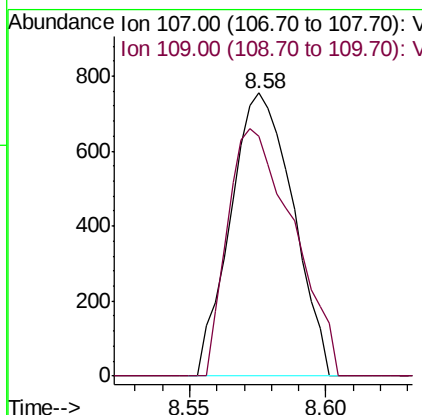
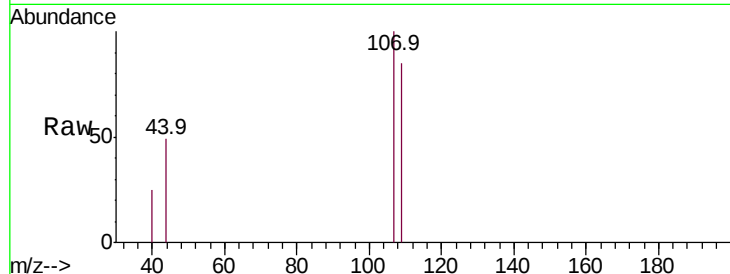
#56
 1,2-Dibromoethane
 Concen: 0.208 ug/l
 RT: 8.58 min Scan# 2326
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

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

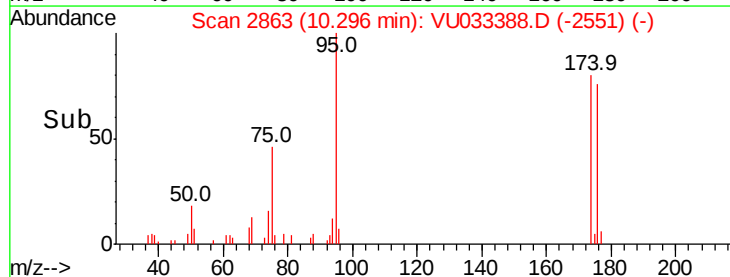
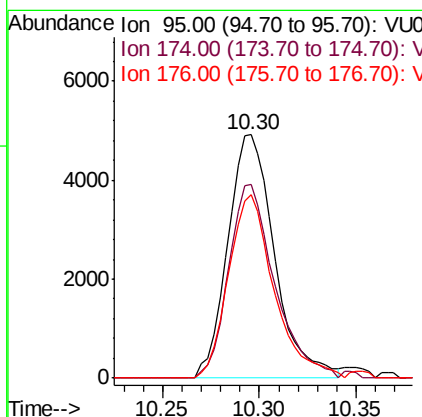
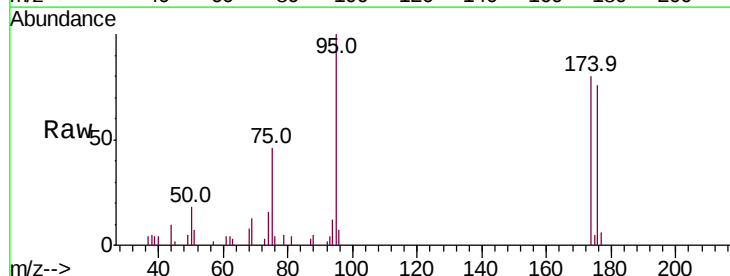
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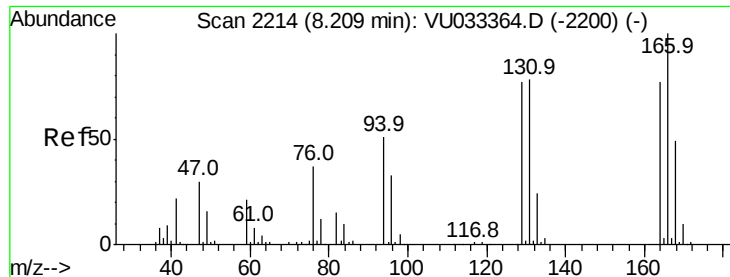
MMDadoda
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#57
 4-Bromofluorobenzene
 Concen: 0.830 ug/l
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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





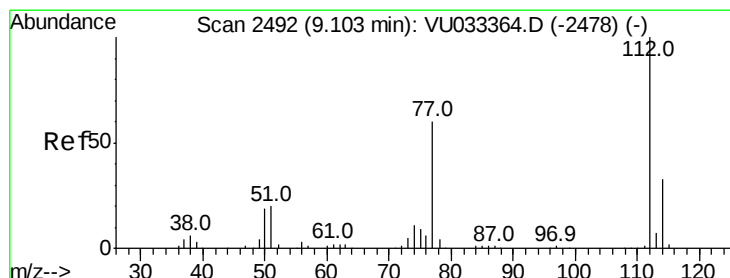
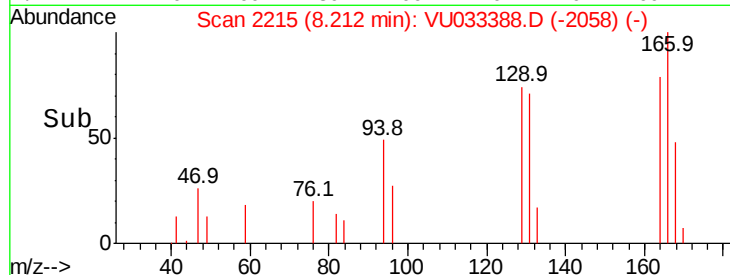
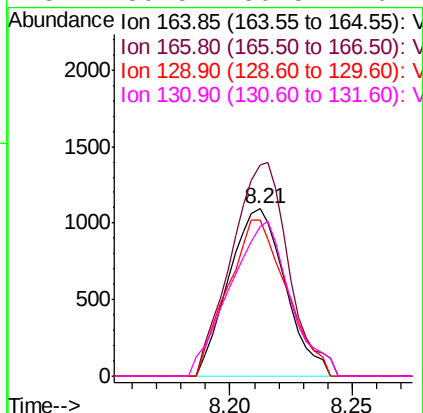
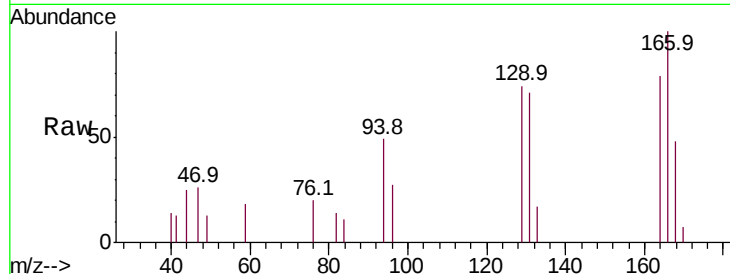
#58
Tetrachloroethene
Concen: 0.242 ug/l
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

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

Tot 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

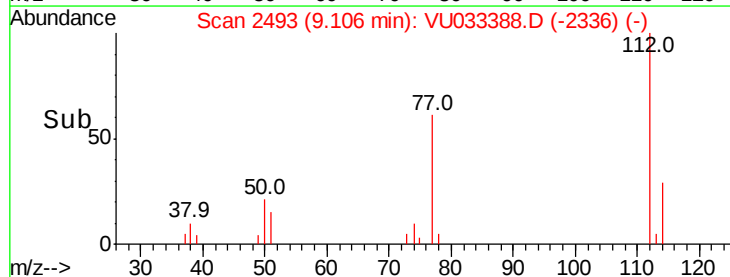
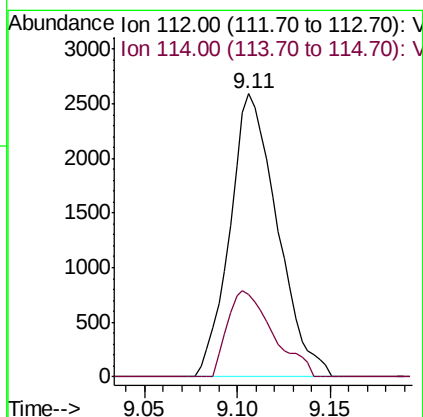
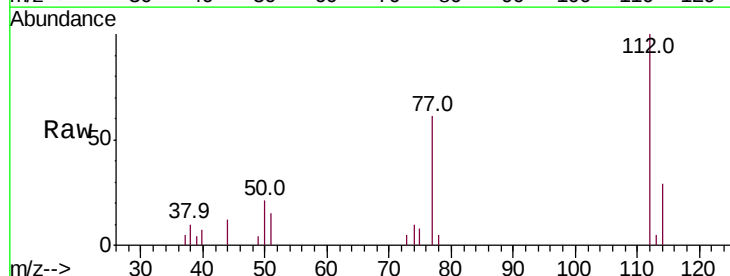
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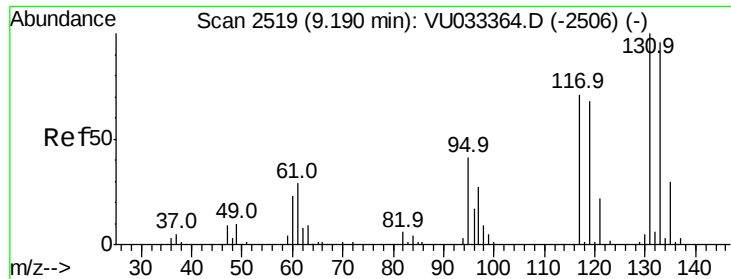
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#59
Chlorobenzene
Concen: 0.232 ug/l
RT: 9.11 min Scan# 2493
Delta R.T. 0.00 min
Lab File: VU033388.D
Acq: 24 Jul 2019 12:14

Tgt Ion:112 Resp: 4617
Ion Ratio Lower Upper
112 100
114 29.1 26.4 39.6





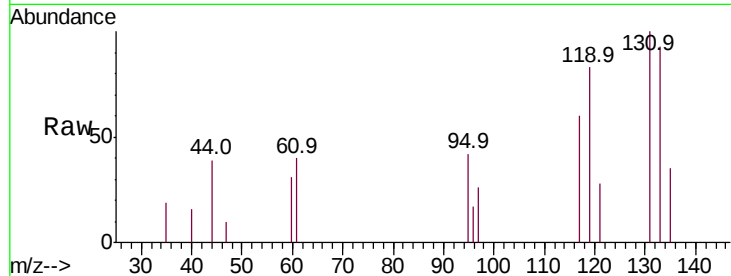
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.243 ug/l
 RT: 9.19 min Scan# 2520
 Delta R.T. 0.00 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

Tot Ion	Ratio	Lower	Upper
131	100		
133	93.0	76.2	114.4
119	64.0	54.9	82.3

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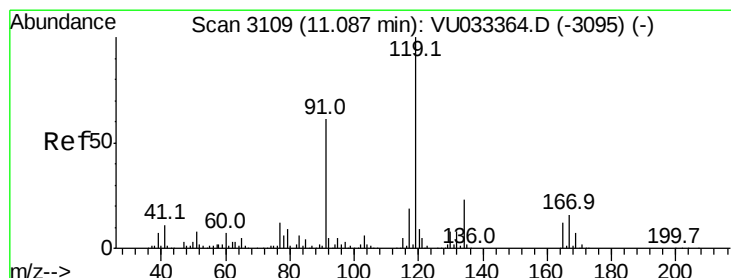
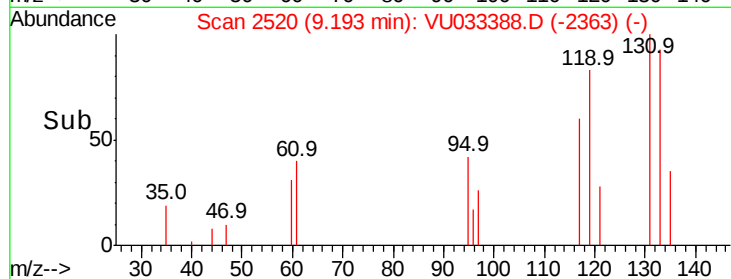
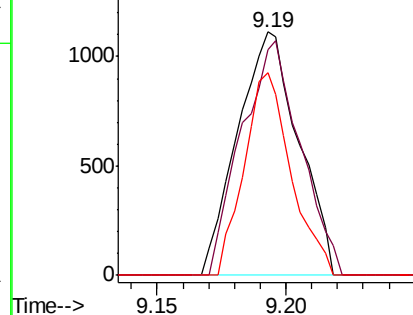


Abundance

Ion 131.00 (130.70 to 131.70): V

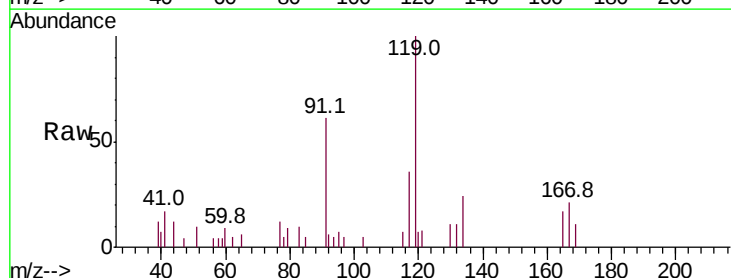
Ion 133.00 (132.70 to 133.70): V

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

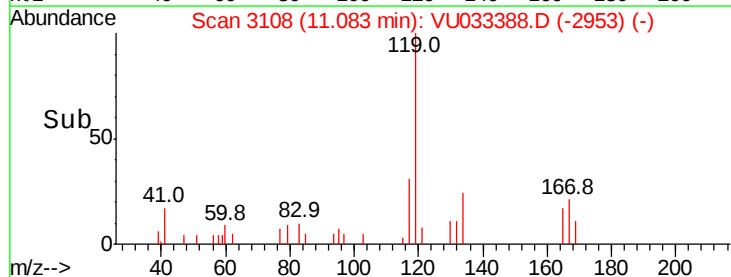
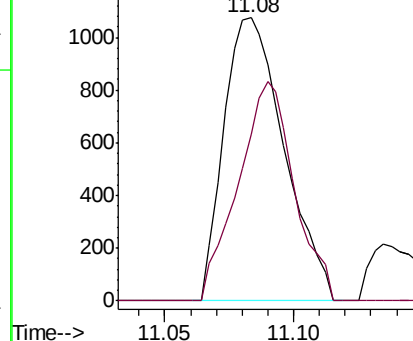
Tgt Ion	Ratio	Lower	Upper
117	100		
167	72.1	63.4	95.0

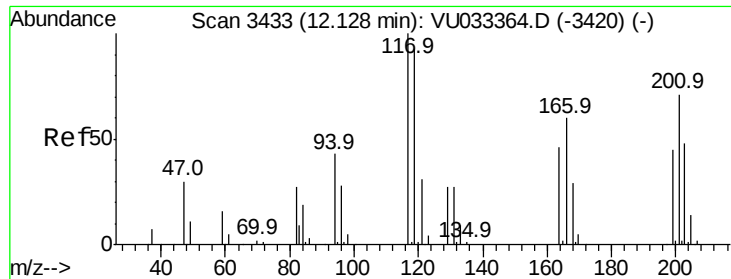


Abundance

Ion 116.80 (116.50 to 117.50): V

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

Tot Ion:117 Resp: 1490

Ion Ratio Lower Upper

117 100

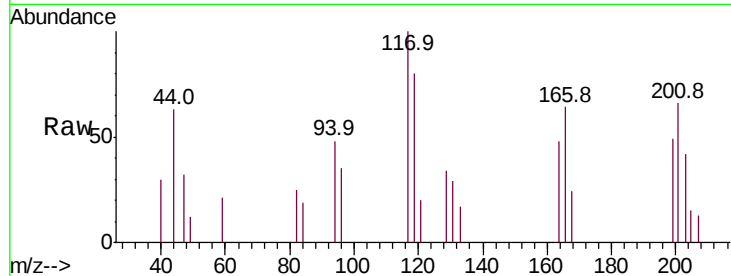
201 69.4 57.9 86.9

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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V

12.13

800

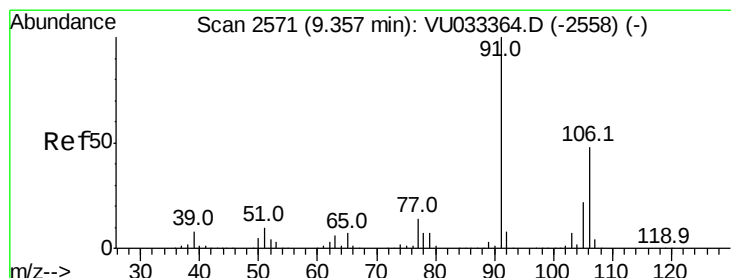
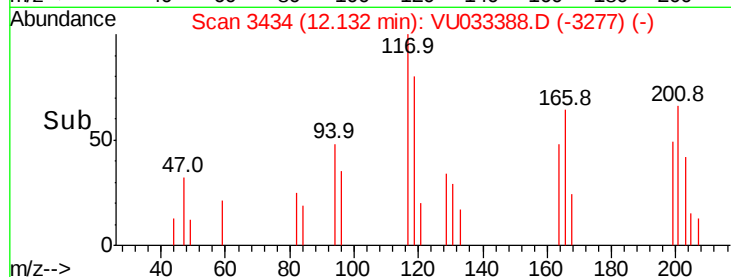
600

400

200

0

Time-->



#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

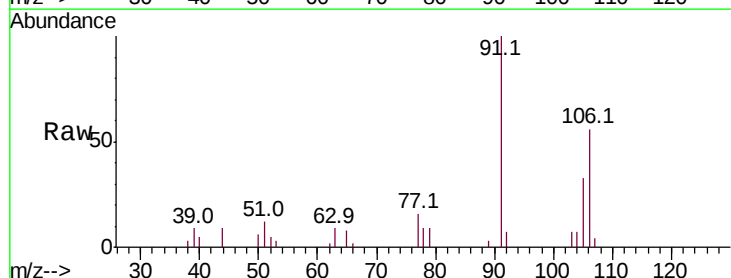
Acq: 24 Jul 2019 12:14

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

9.36

5000

4000

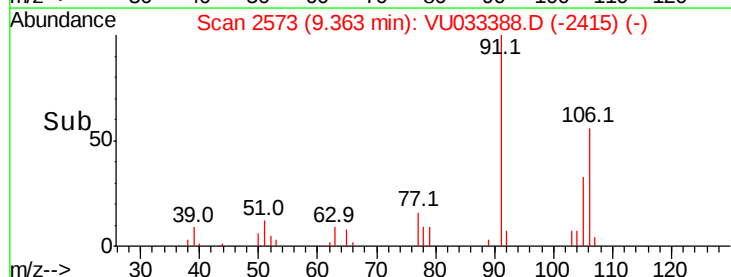
3000

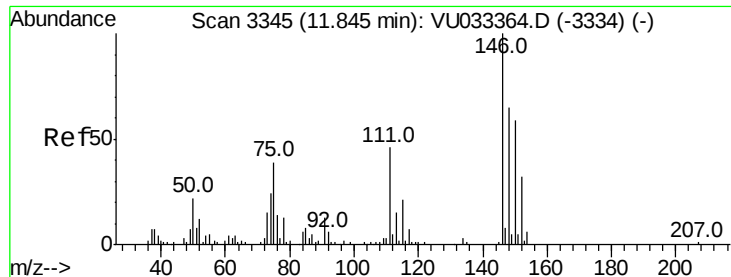
2000

1000

0

Time-->





#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

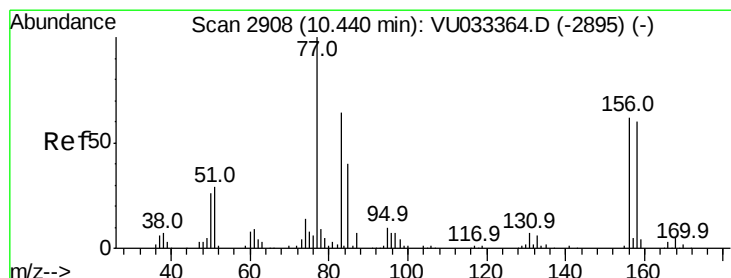
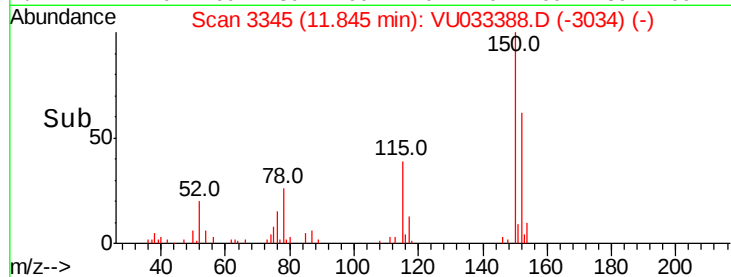
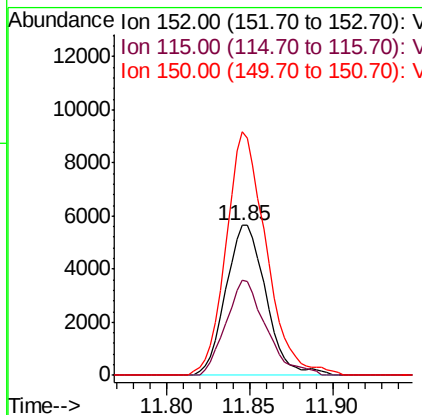
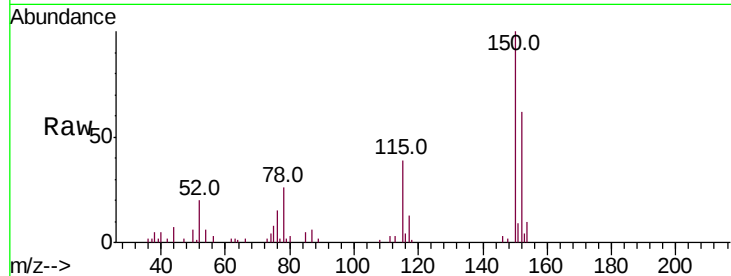
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.2	0.0	123.2
150	162.4	0.0	648.4

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.210 ug/l

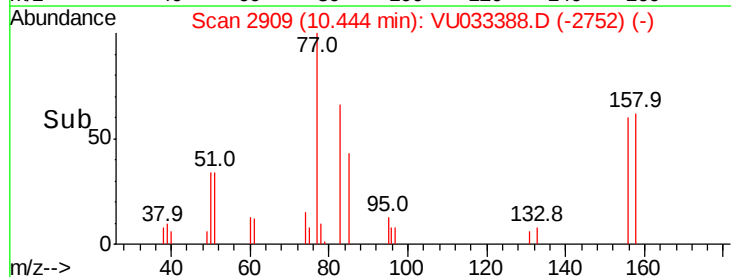
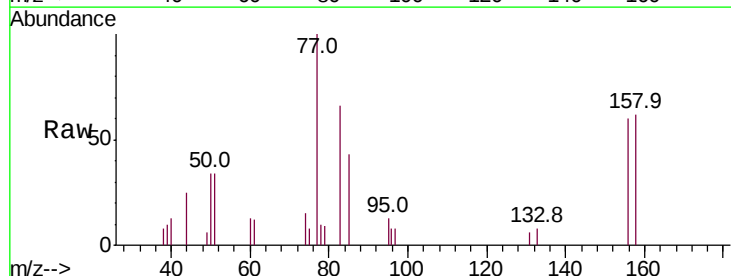
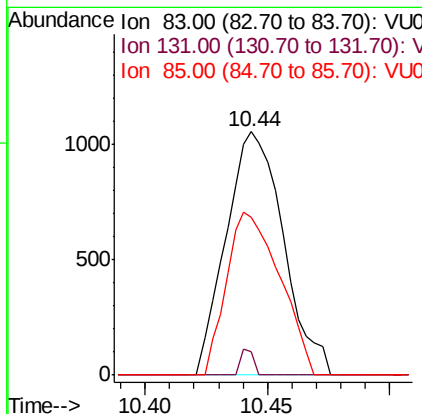
RT: 10.44 min Scan# 2909

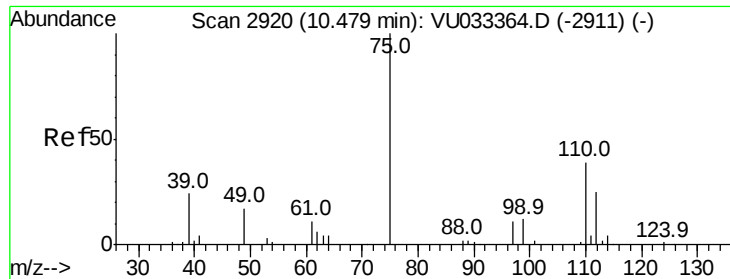
Delta R.T. 0.00 min

Lab File: VU033388.D

Acq: 24 Jul 2019 12:14

Tgt Ion	Ratio	Lower	Upper
83	100		
131	2.4	8.0	12.0#
85	62.4	51.8	77.8





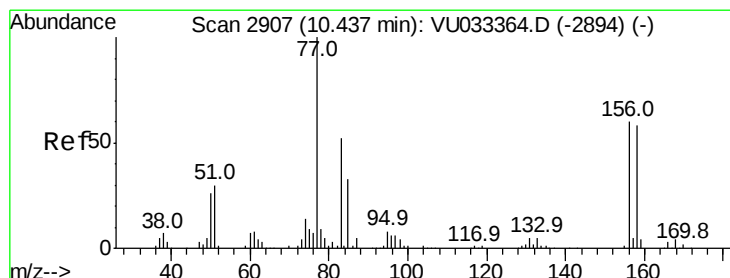
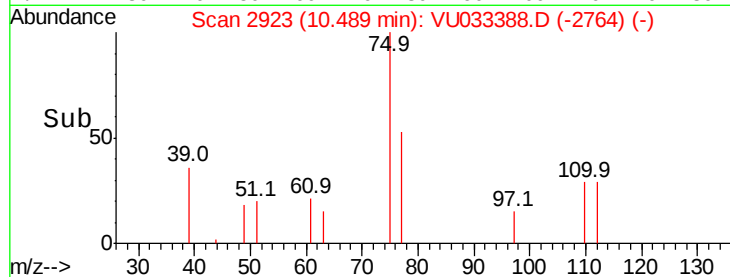
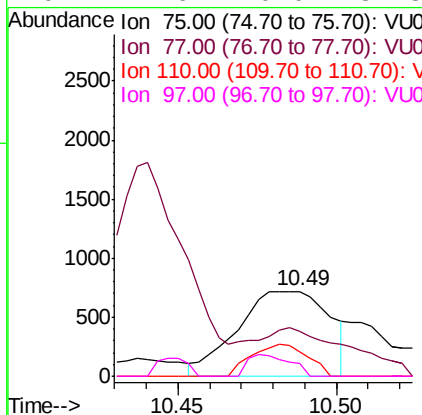
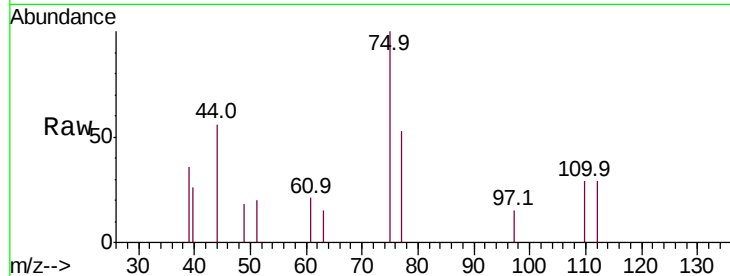
#71
 1,2,3-Trichloropropane
 Concen: 0.230 ug/l m
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.01 min
 Lab File: VU033388.D
 Acq: 24 Jul 2019 12:14

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

Tot Ion:	75	Resp:	1454
Ion Ratio	Lower	Upper	
75	100		
77	50.1	0.0	18.2#
110	22.7	0.0	71.4
97	11.6	0.0	37.8

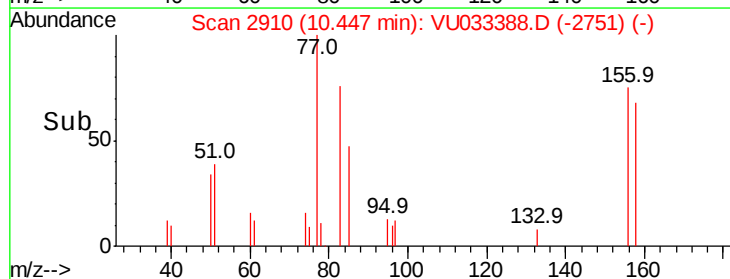
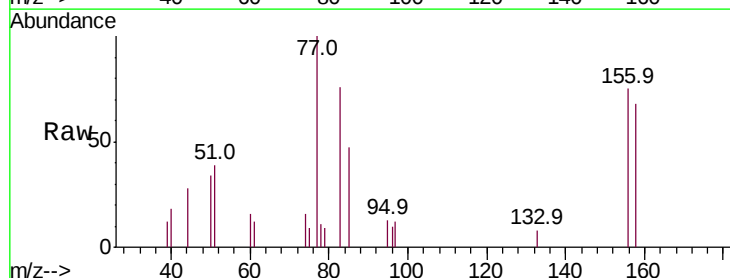
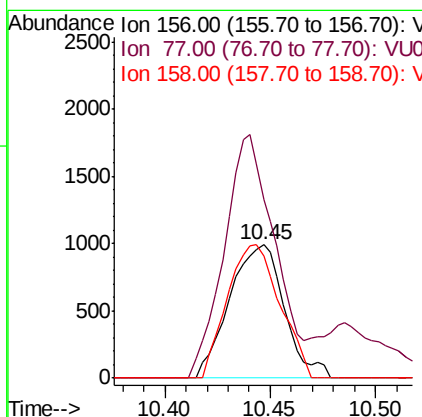
Manual Integrations
 APPROVED

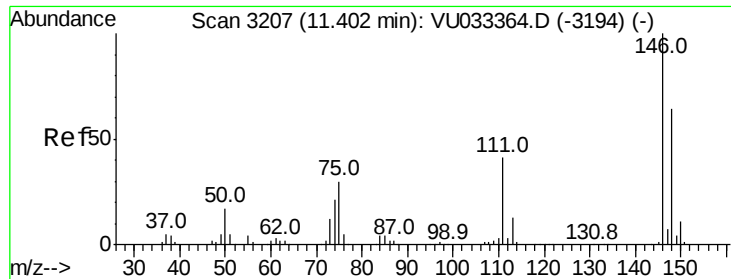
MMDadoda
 7/25/2019 12:13:10 PM



#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





#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

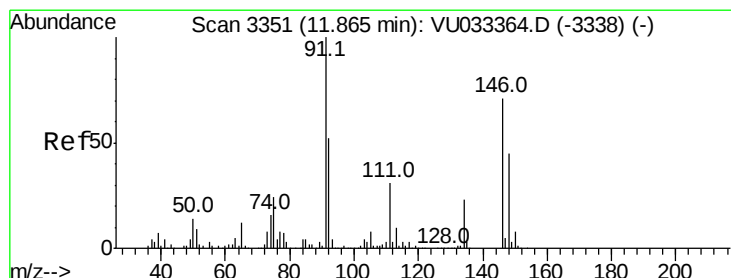
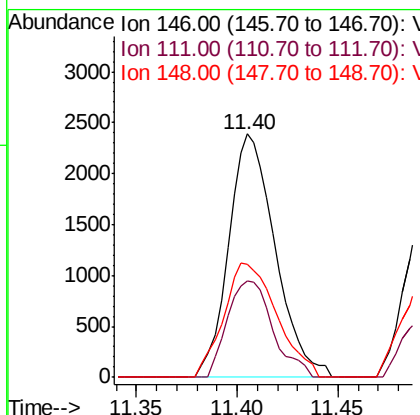
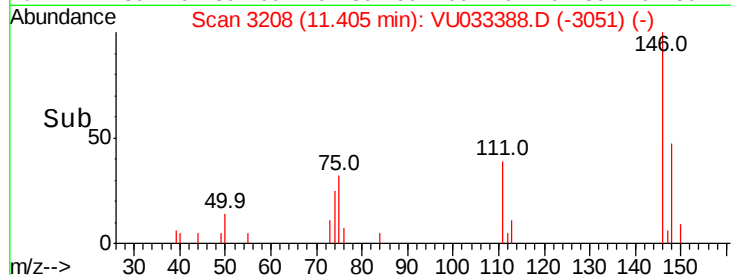
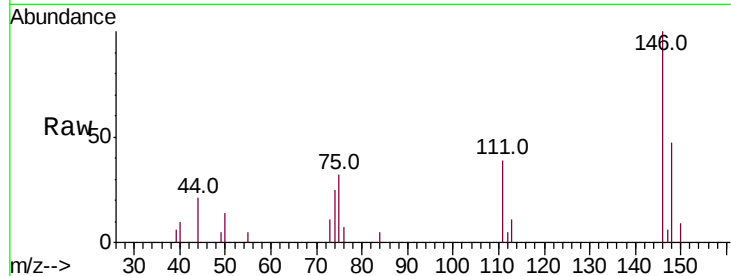
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

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

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#85

1,2-Dichlorobenzene

Concen: 0.211 ug/l

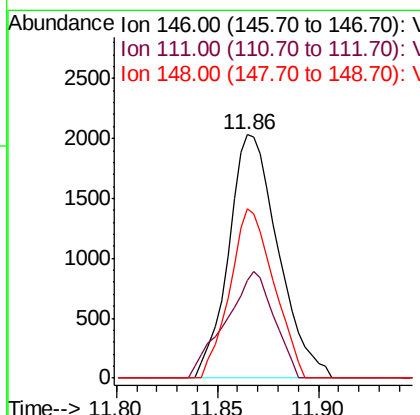
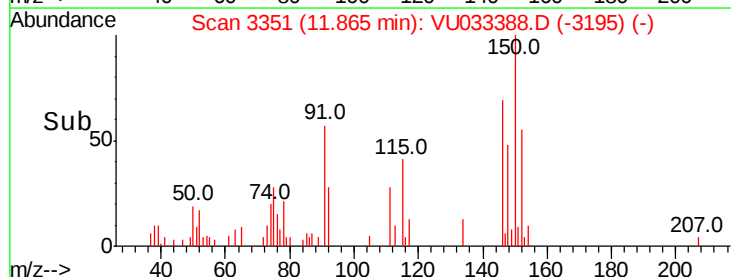
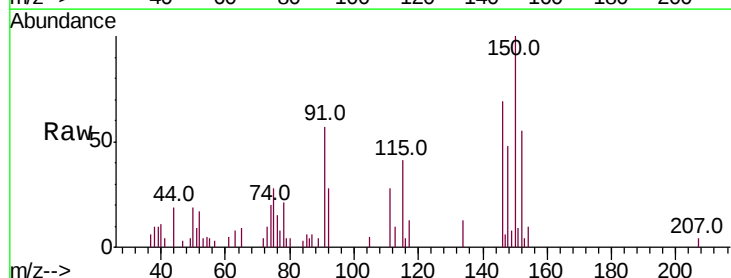
RT: 11.86 min Scan# 3351

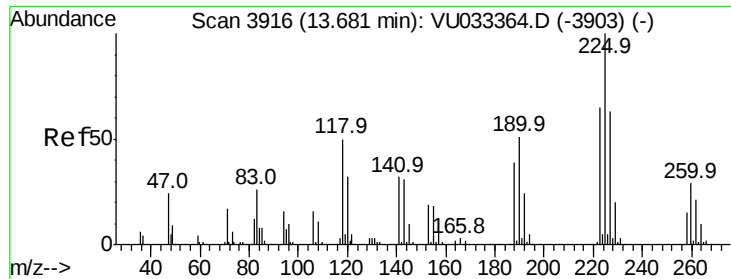
Delta R.T. 0.00 min

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

Tot Ion	Ratio	Lower	Upper
225	100		
223	57.4	52.2	78.4
227	65.4	51.7	77.5

Manual Integrations
 APPROVED

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