

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072319\
 Data File : VU033370.D
 Acq On : 23 Jul 2019 10:06
 Operator : JC/SP
 Sample : K3591-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 LOD-MDL-WATER-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 11:15:27 AM

Quant Time: Jul 24 03:01:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 24 02:46:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.72	96	27906	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.29	95	9372	0.86	ug/l	0.00
Spiked Amount 1.000			Recovery	=	86.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	10498	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.20	85	3385	0.293	ug/l	93
3) Chloromethane	1.32	50	3904	0.306	ug/l	100
4) Vinyl Chloride	1.40	62	3487	0.245	ug/l	96
5) Bromomethane	1.62	94	3034	0.339	ug/l	93
6) Chloroethane	1.69	64	2599	0.260	ug/l	97
7) Trichlorofluoromethane	1.88	101	4946	0.253	ug/l	88
8) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2756	0.274	ug/l	95
9) 1,1-Dichloroethene	2.27	96	2742	0.277	ug/l	91
11) Allyl Chloride	2.58	41	4882	0.298	ug/l	91
12) Acrylonitrile	2.93	53	1361	0.492	ug/l #	80
13) Acetone	2.33	43	4191	1.775	ug/l	97
14) Carbon Disulfide	2.46	76	10193	0.271	ug/l	97
15) Methylene Chloride	2.68	84	4530	0.339	ug/l	92
16) trans-1,2-Dichloroethene	2.96	96	3530	0.300	ug/l	89
17) 1,1-Dichloroethane	3.42	63	4336	0.274	ug/l #	93
18) 2-Butanone	4.28	43	2461m	1.092	ug/l	
19) Cyclohexane	4.96	56	2943m	0.254	ug/l	
20) Methylcyclohexane	6.39	83	2777	0.238	ug/l #	70
21) 2,2-Dichloropropane	4.21	77	4320	0.323	ug/l #	72
22) cis-1,2-Dichloroethene	4.20	96	2209	0.248	ug/l	69
23) Diethyl Ether	2.09	59	2204	0.258	ug/l #	80
24) tert-Butyl Alcohol	2.86	59	415m	0.316	ug/l	
25) Methyl tert-Butyl Ether	2.98	73	6855	0.240	ug/l	97
26) Bromochloromethane	4.52	128	1001	0.255	ug/l	89
27) Chloroform	4.65	83	6369	0.353	ug/l	88
28) 1,1,1-Trichloroethane	4.89	97	3416	0.244	ug/l	95
29) 1,1-Dichloropropene	5.11	75	2759	0.239	ug/l	95
30) Carbon Tetrachloride	5.11	117	2899	0.236	ug/l	99
31) Isopropyl Ether	3.56	45	5351	0.268	ug/l	97
32) Ethyl-t-butyl ether	4.05	59	4898	0.255	ug/l	95
33) Tert-Amyl methyl ether	5.56	73	4043	0.234	ug/l #	92
34) Propionitrile	4.35	54	517m	0.800	ug/l	
35) Benzene	5.37	78	8483	0.255	ug/l	99
36) 1,2-Dichloroethane	5.39	62	2666	0.240	ug/l #	87
37) Trichloroethene	6.16	130	2071	0.235	ug/l	88
38) 1,2-Dichloropropane	6.41	63	1921	0.209	ug/l #	88
39) Methacrylonitrile	4.56	41	603m	0.235	ug/l	
42) 1-Chlorobutane	5.04	56	3683	0.238	ug/l	88
43) Dibromomethane	6.54	93	1110	0.218	ug/l #	85
44) Bromodichloromethane	6.74	83	3480	0.284	ug/l #	88
45) 4-Methyl-2-Pentanone	7.45	43	5786	1.115	ug/l #	86

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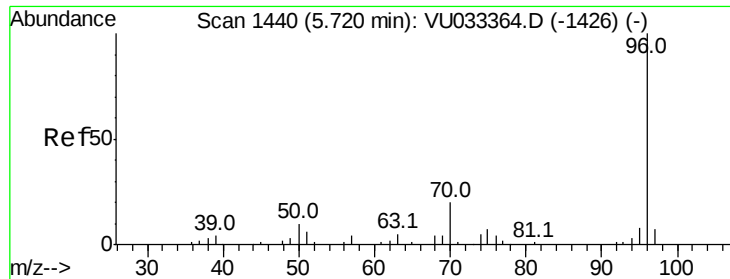
Manual Integrations
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Quant Time: Jul 24 03:01:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) t-1,4-Dichloro-2-butene	10.51	75	538m	0.257	ug/l	
47) Methyl methacrylate	6.61	69	1253	0.323	ug/l #	82
49) Toluene	7.62	92	4149	0.217	ug/l	93
50) t-1,3-Dichloropropene	7.87	75	2445	0.239	ug/l	96
51) cis-1,3-Dichloropropene	7.26	75	2692	0.223	ug/l	99
52) 1,1,2-Trichloroethane	8.05	97	1886	0.277	ug/l	93
53) 1,3-Dichloropropane	8.23	76	2652	0.231	ug/l	93
54) 2-Hexanone	8.36	43	3566	0.976	ug/l	90
55) Dibromochloromethane	8.46	129	1808	0.228	ug/l	88
56) 1,2-Dibromoethane	8.58	107	1482	0.234	ug/l	97
58) Tetrachloroethene	8.22	164	2044	0.256	ug/l	89
59) Chlorobenzene	9.11	112	4652	0.213	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.19	131	2117	0.255	ug/l	99
61) Pentachloroethane	11.09	117	1639	0.240	ug/l	97
62) Hexachloroethane	12.13	117	1644	0.249	ug/l	96
63) Ethyl Benzene	9.23	91	7332	0.209	ug/l	98
64) m/p-Xylenes	9.36	106	5369	0.382	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.44	83	2028	0.225	ug/l #	92
71) 1,2,3-Trichloropropane	10.48	75	1493m	0.214	ug/l	
72) Bromobenzene	10.45	156	1874	0.205	ug/l	92
74) 2-Chlorotoluene	10.65	126	1807	0.201	ug/l	88
77) tert-Butylbenzene	11.09	119	6038	0.206	ug/l	95
82) 1,3-Dichlorobenzene	11.40	146	4104	0.212	ug/l	95
83) 1,4-Dichlorobenzene	11.49	146	4218	0.220	ug/l	99
85) 1,2-Dichlorobenzene	11.86	146	4057	0.223	ug/l	92
88) Hexachlorobutadiene	13.68	225	1602	0.240	ug/l	97

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

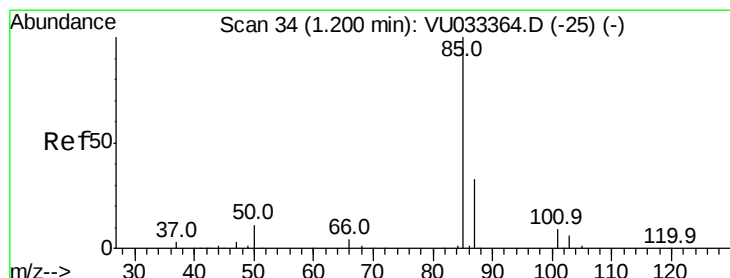
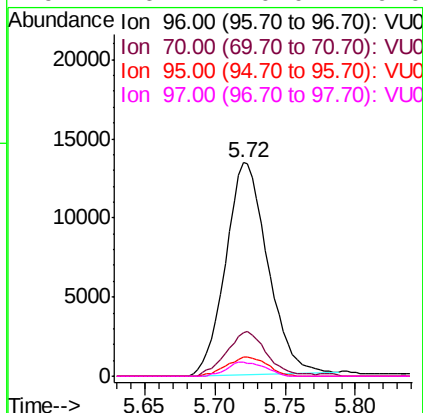
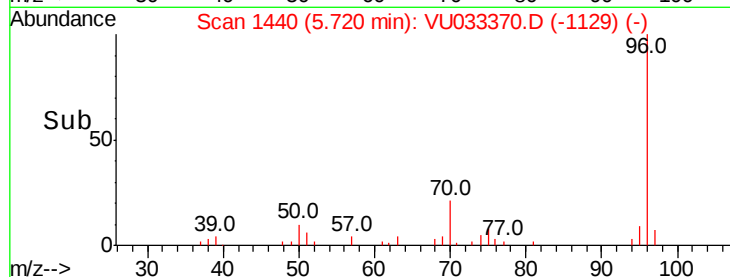
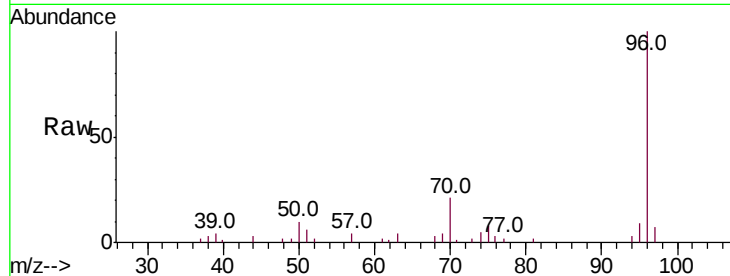
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Tot Ion: 96 Resp: 27906

Ion	Ratio	Lower	Upper
96	100		
70	19.2	16.4	24.6
95	8.8	6.7	10.1
97	6.1	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 0.293 ug/l

RT: 1.20 min Scan# 34

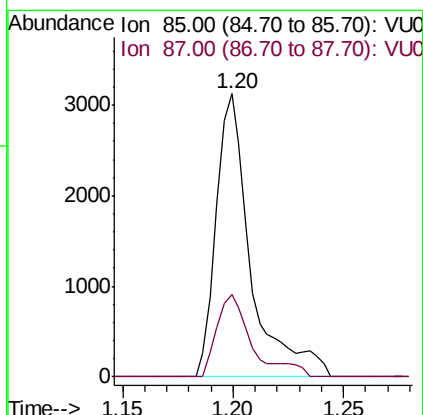
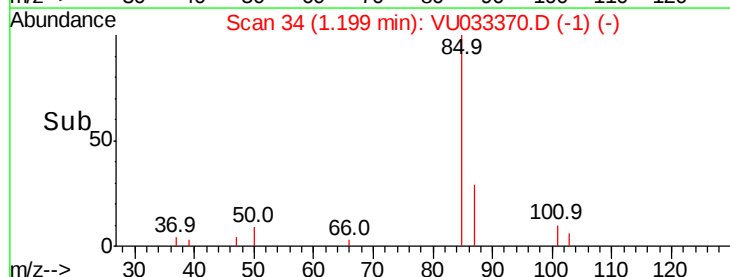
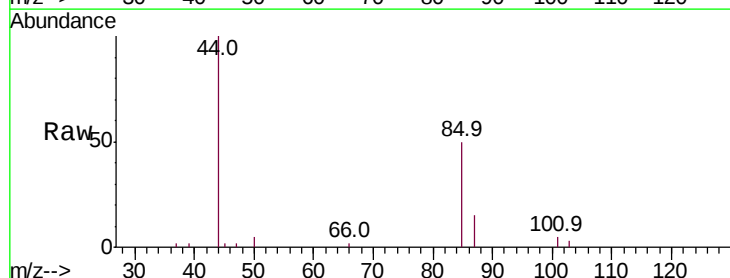
Delta R.T. -0.00 min

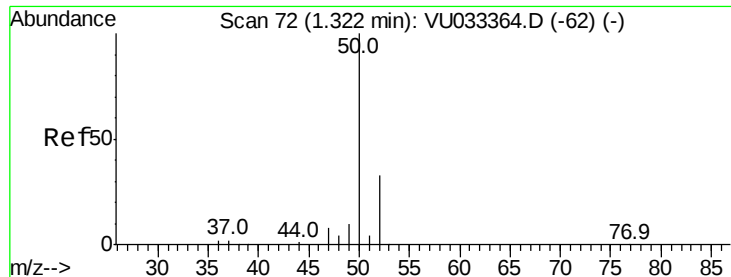
Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion: 85 Resp: 3385

Ion	Ratio	Lower	Upper
85	100		
87	29.3	16.6	49.7





#3

Chloromethane

Concen: 0.306 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 50 Resp: 3904

Ion Ratio Lower Upper

50 100

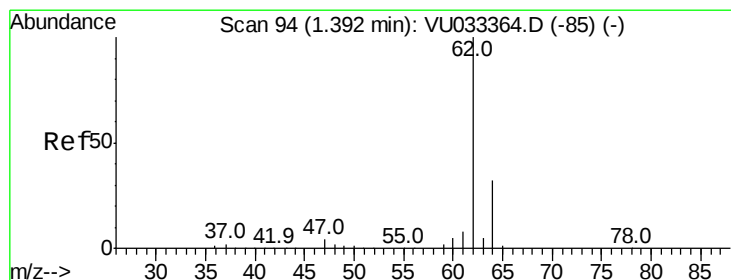
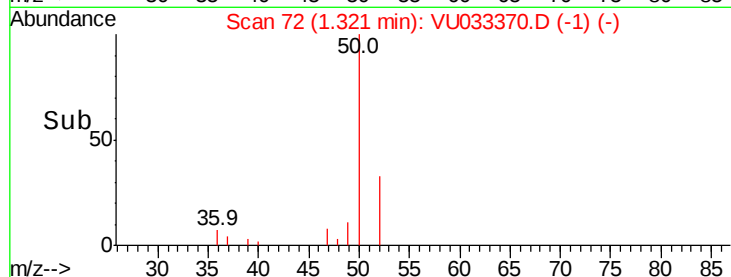
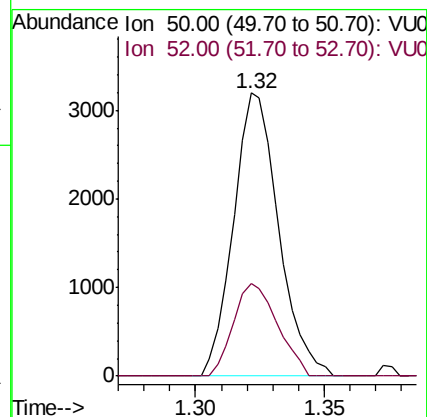
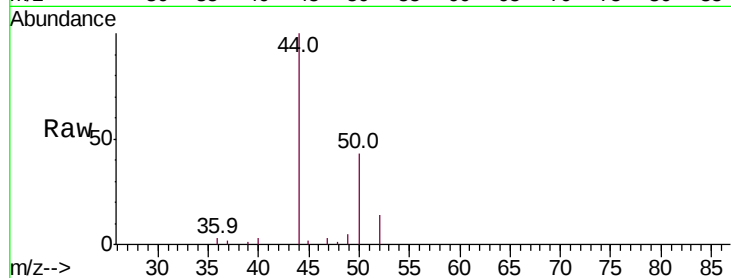
52 32.6 26.1 39.1

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7/25/2019 11:15:27 AM



#4

Vinyl Chloride

Concen: 0.245 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033370.D

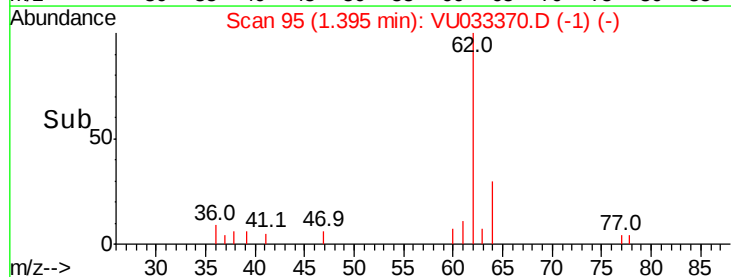
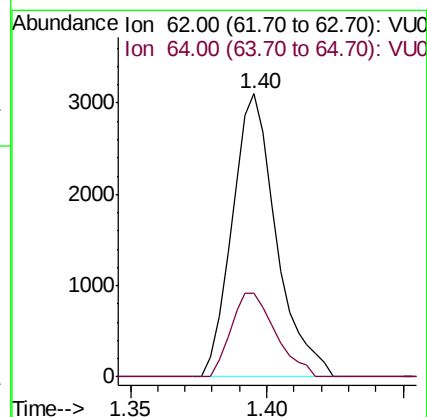
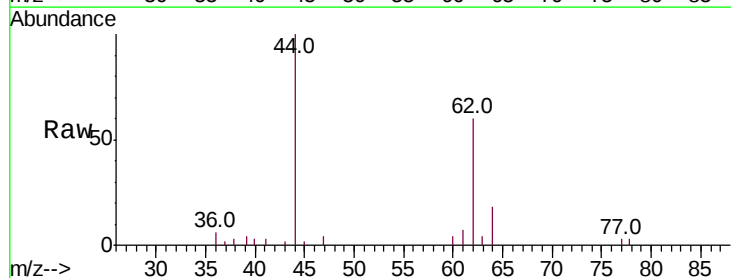
Acq: 23 Jul 2019 10:06

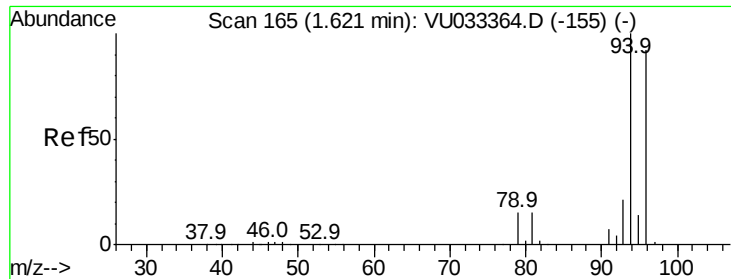
Tgt Ion: 62 Resp: 3487

Ion Ratio Lower Upper

62 100

64 29.7 25.6 38.4





#5

Bromomethane

Concen: 0.339 ug/l

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 94 Resp: 3034

Ion Ratio Lower Upper

94 100

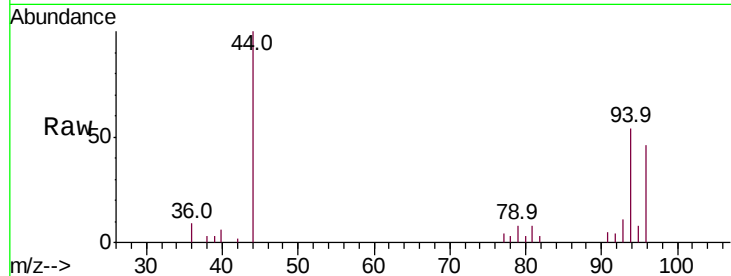
96 85.3 73.2 109.8

Manual Integrations

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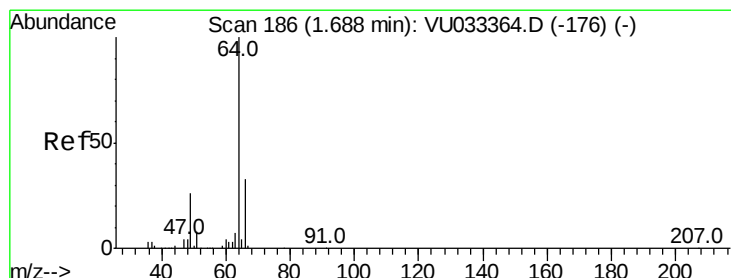
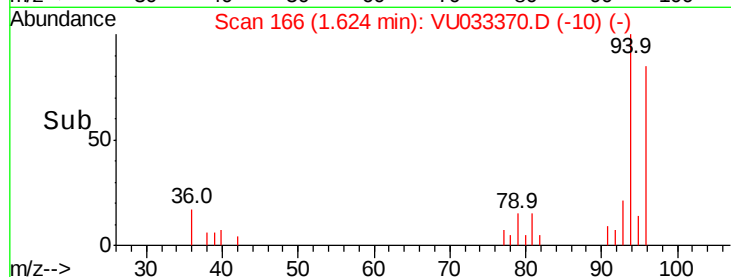
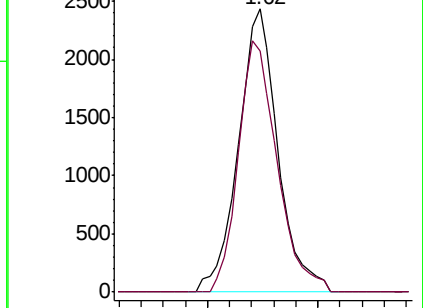
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Abundance Ion 94.00 (93.70 to 94.70): VU033364.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033364.D (-155) (-)



#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033370.D

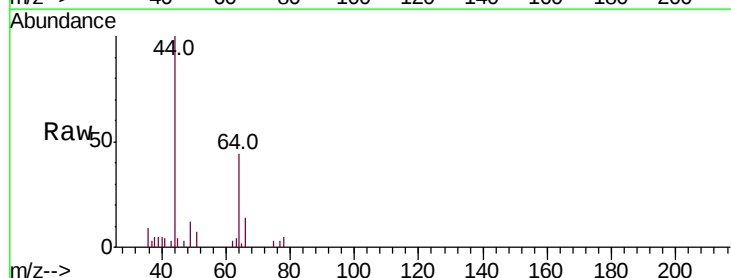
Acq: 23 Jul 2019 10:06

Tgt Ion: 64 Resp: 2599

Ion Ratio Lower Upper

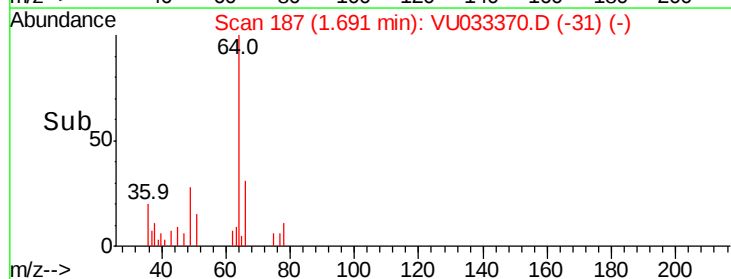
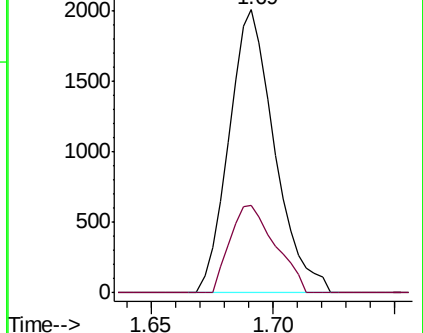
64 100

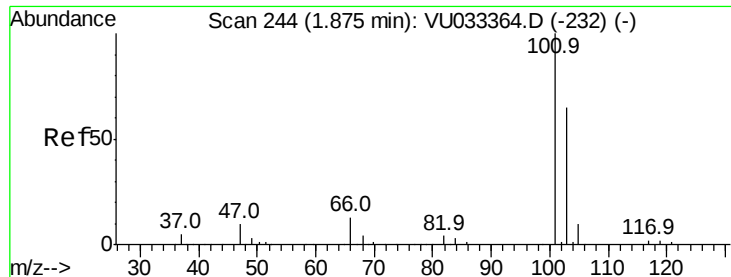
66 31.1 26.4 39.6



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

Ion 66.00 (65.70 to 66.70): VU033364.D (-176) (-)





#7

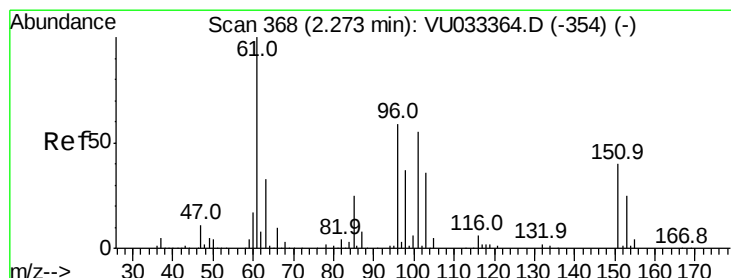
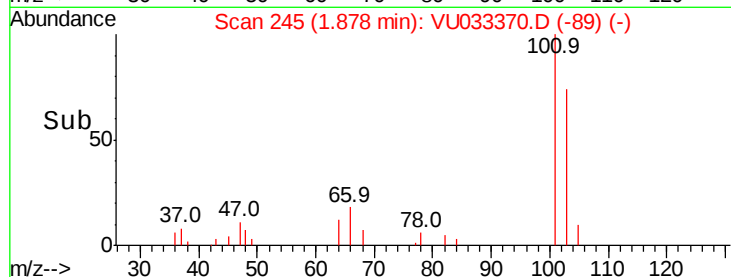
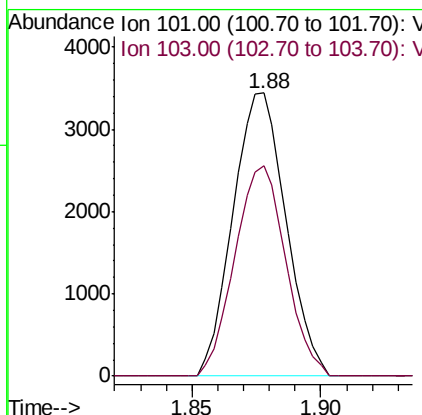
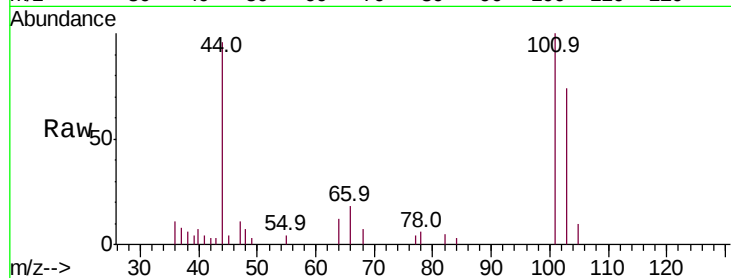
Trichlorofluoromethane
Concen: 0.253 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:101 Resp: 4946
Ion Ratio Lower Upper
101 100
103 74.4 52.2 78.2

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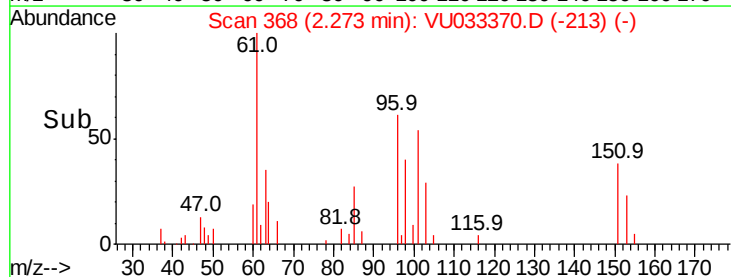
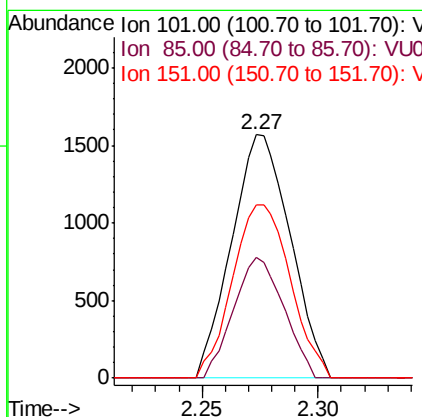
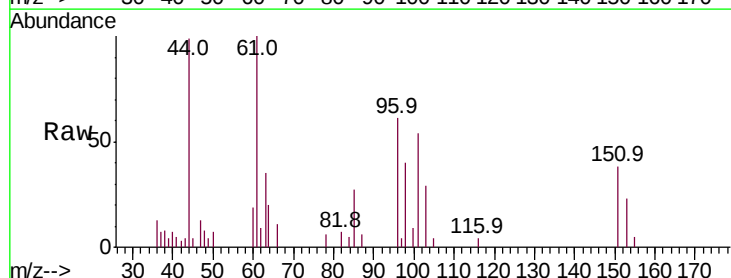
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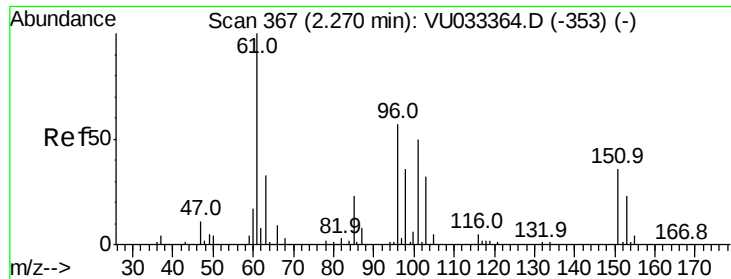


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.274 ug/l
RT: 2.27 min Scan# 368
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion:101 Resp: 2756
Ion Ratio Lower Upper
101 100
85 42.5 37.5 56.3
151 70.2 58.3 87.5





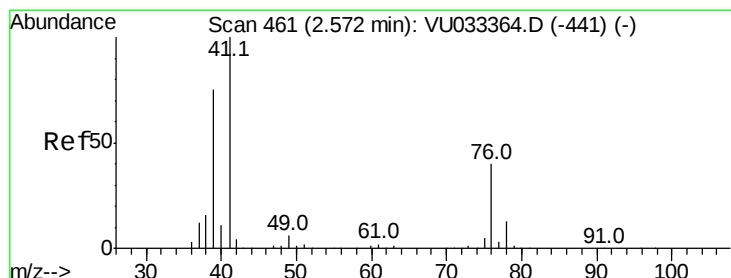
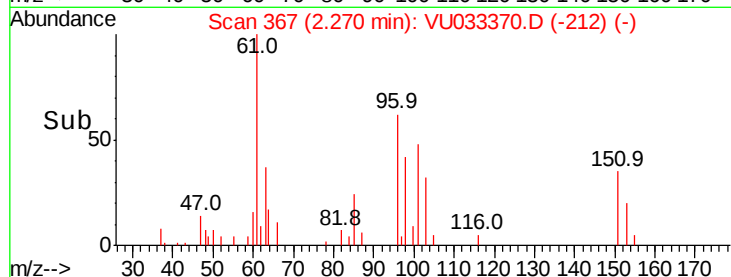
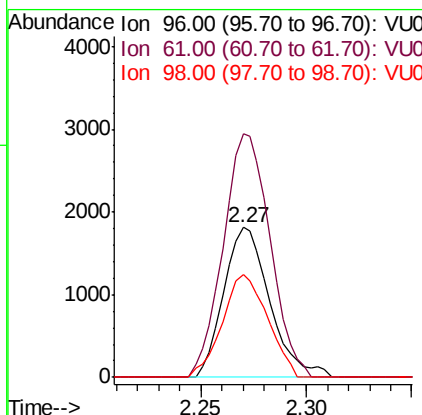
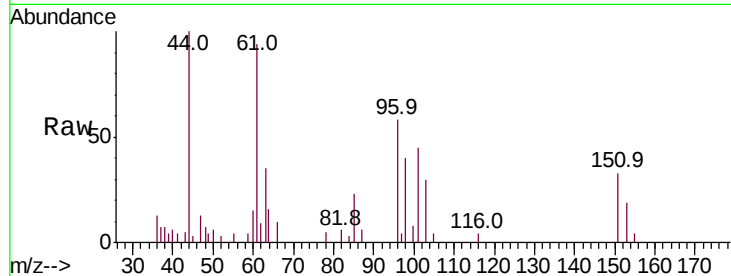
#9
 1,1-Dichloroethene
 Concen: 0.277 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion:	96	Resp:	2742
Ion	Ratio	Lower	Upper
96	100		
61	162.6	0.0	525.6
98	68.9	0.0	126.4

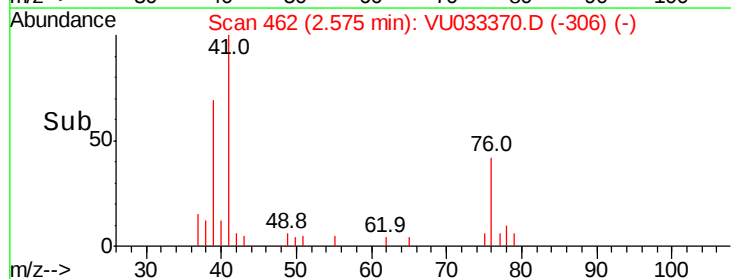
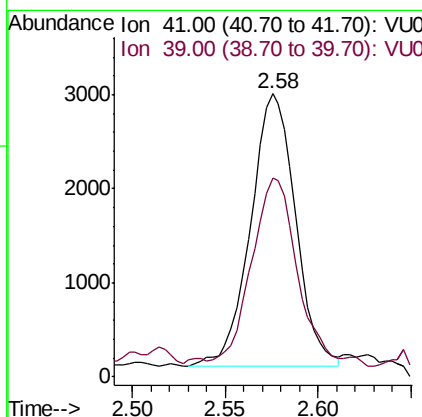
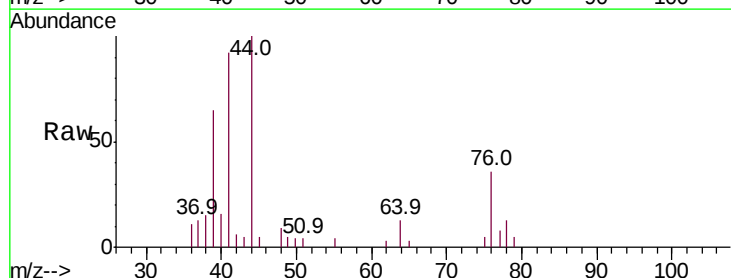
Manual Integrations
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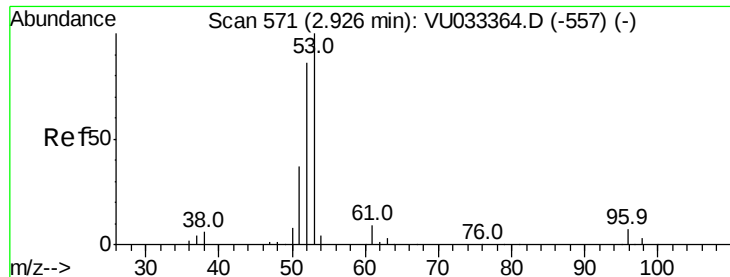
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#11
 Allyl Chloride
 Concen: 0.298 ug/l
 RT: 2.58 min Scan# 462
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion:	41	Resp:	4882
Ion	Ratio	Lower	Upper
41	100		
39	65.7	58.7	88.1





#12

Acrylonitrile

Concen: 0.492 ug/l

RT: 2.93 min Scan# 572

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

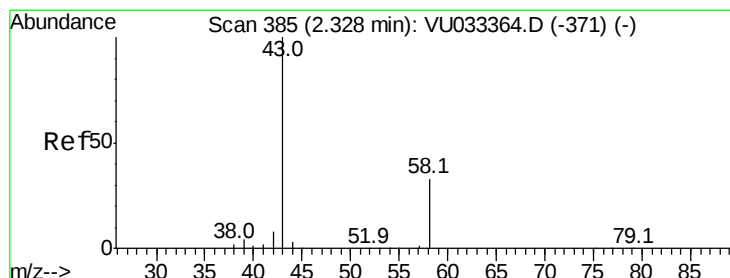
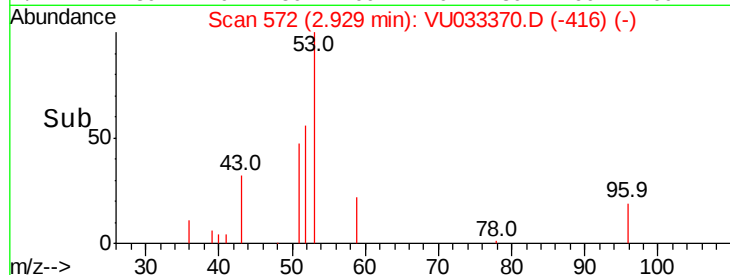
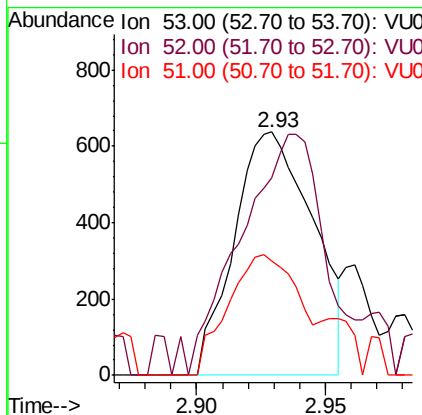
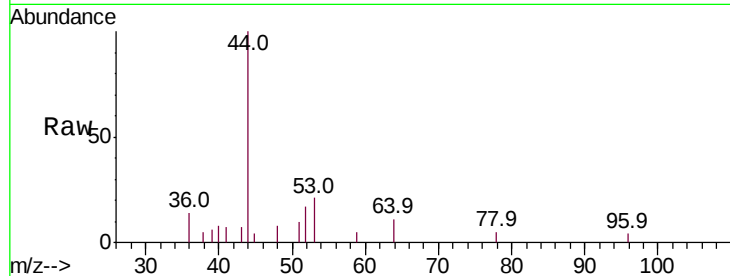
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	53	Resp:	1361
Ion	Ratio	Lower	Upper
53	100		
52	107.6	69.8	104.8#
51	45.8	29.1	43.7#

Manual Integrations
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MMDadoda
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#13

Acetone

Concen: 1.775 ug/l

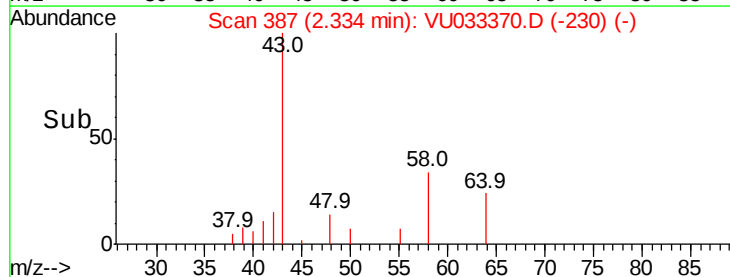
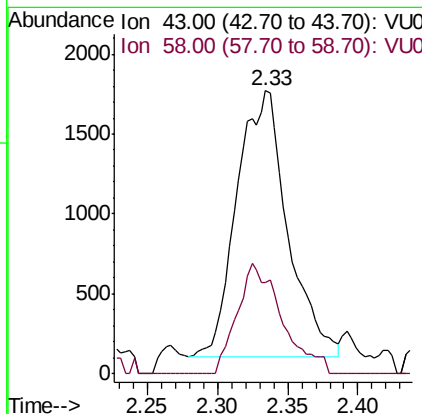
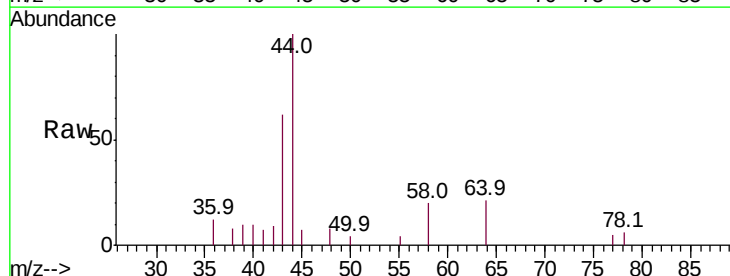
RT: 2.33 min Scan# 387

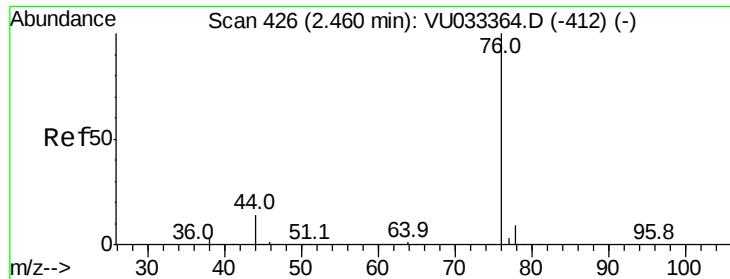
Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion:	43	Resp:	4191
Ion	Ratio	Lower	Upper
43	100		
58	34.4	26.3	39.5





#14

Carbon Disulfide

Concen: 0.271 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 10193

Ion Ratio Lower Upper

76 100

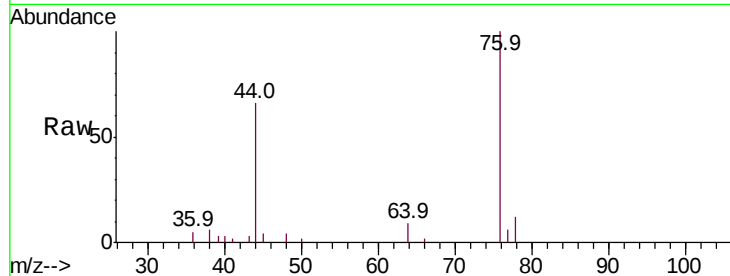
78 9.8 7.1 10.7

Manual Integrations

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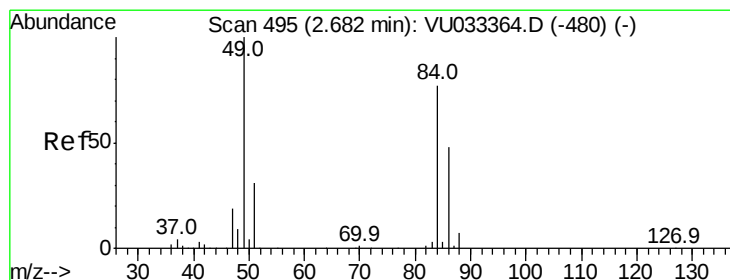
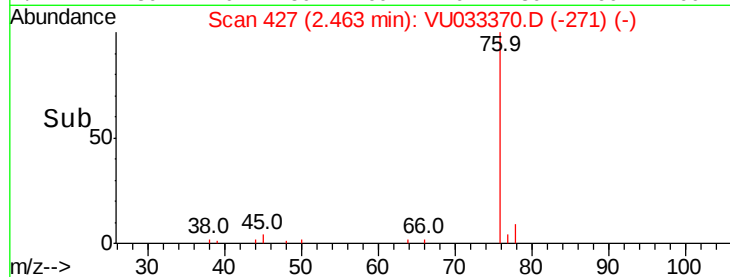
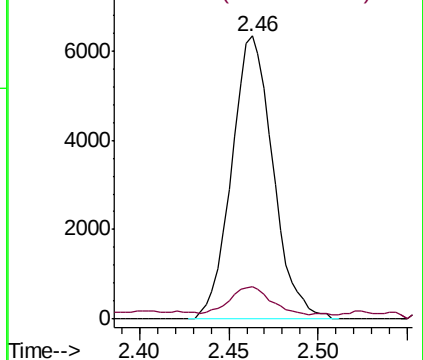
MMDadoda

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Abundance Ion 76.00 (75.70 to 76.70): VU033370.D (-412) (-)

Ion 78.00 (77.70 to 78.70): VU033370.D (-412) (-)



#15

Methylene Chloride

Concen: 0.339 ug/l

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion: 84 Resp: 4530

Ion Ratio Lower Upper

84 100

49 121.0 103.5 155.3

51 29.7 0.0 80.4

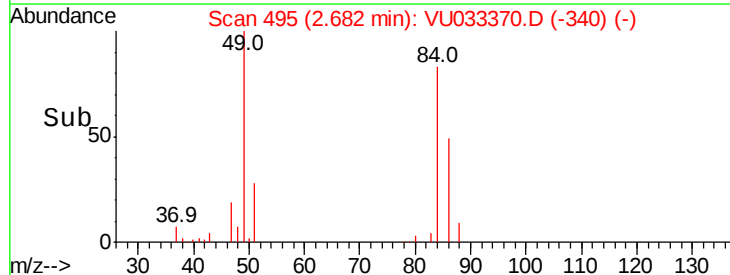
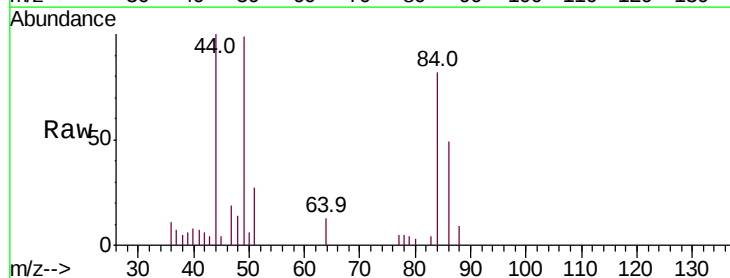
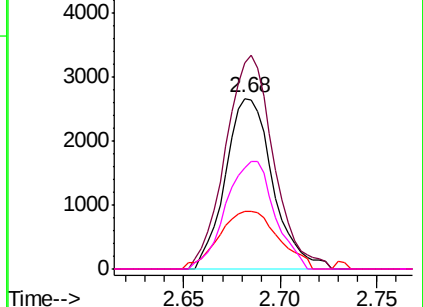
86 59.7 50.1 75.1

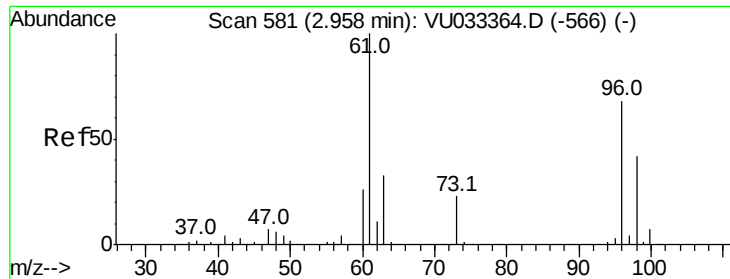
Abundance Ion 84.00 (83.70 to 84.70): VU033370.D (-340) (-)

Ion 49.00 (48.70 to 49.70): VU033370.D (-340) (-)

Ion 51.00 (50.70 to 51.70): VU033370.D (-340) (-)

Ion 86.00 (85.70 to 86.70): VU033370.D (-340) (-)





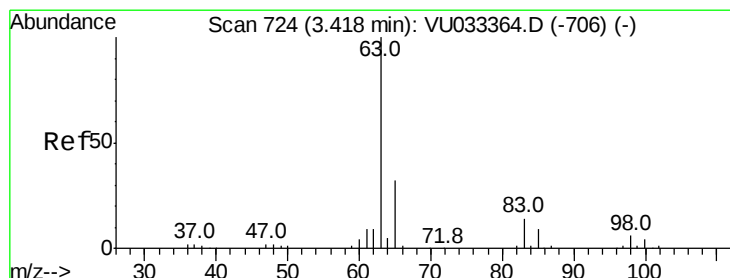
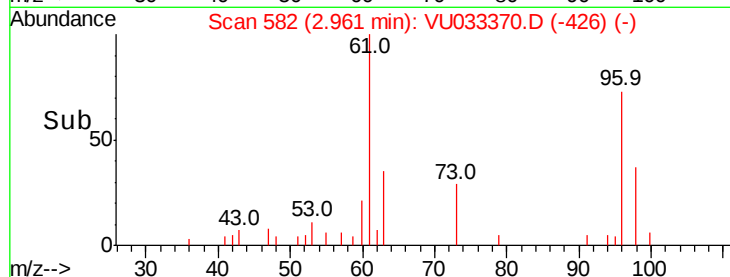
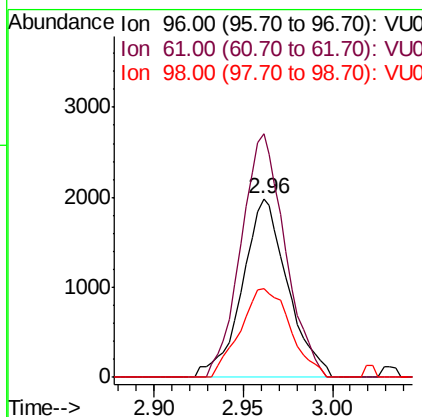
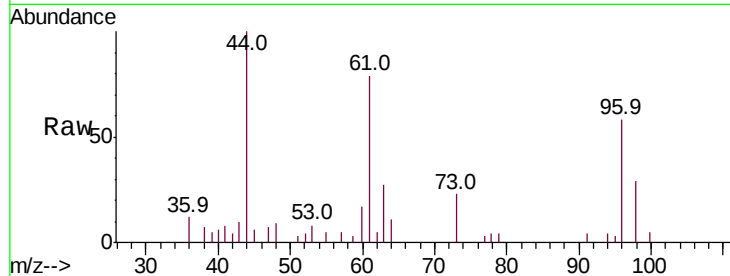
#16
trans-1,2-Dichloroethene
Concen: 0.300 ug/l
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.3	118.0	177.0
98	49.8	49.4	74.2

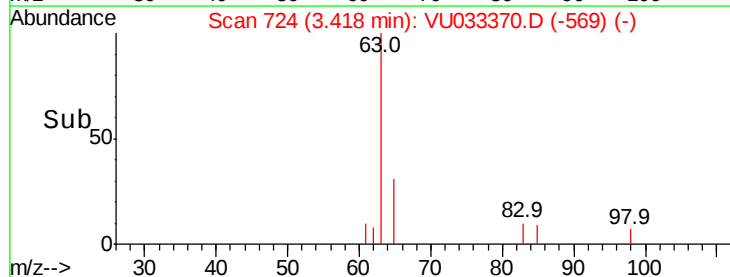
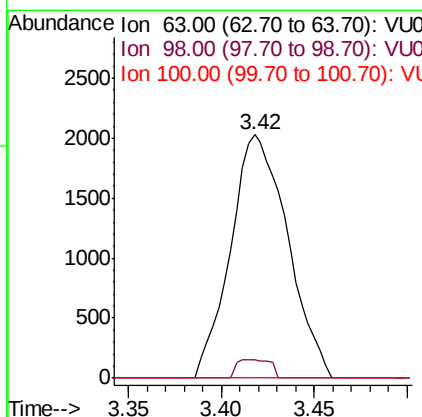
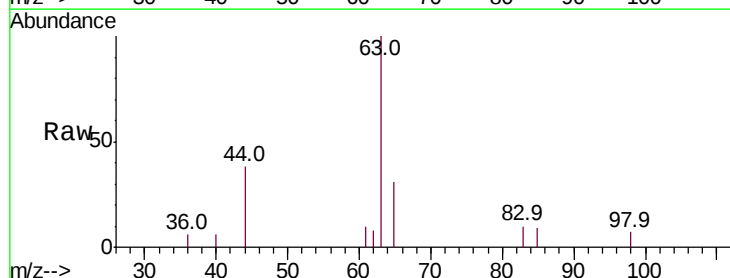
Manual Integrations
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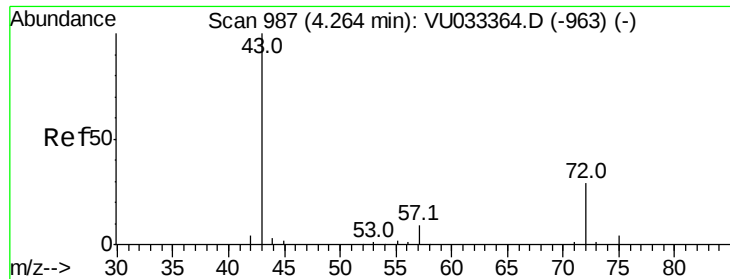
MMDadoda
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#17
1,1-Dichloroethane
Concen: 0.274 ug/l
RT: 3.42 min Scan# 724
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.2	9.6
100	0.0	2.1	6.2#





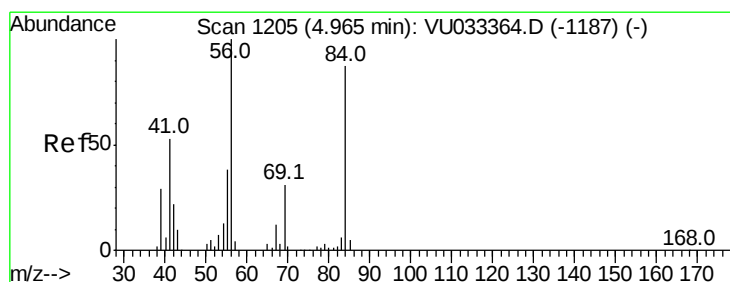
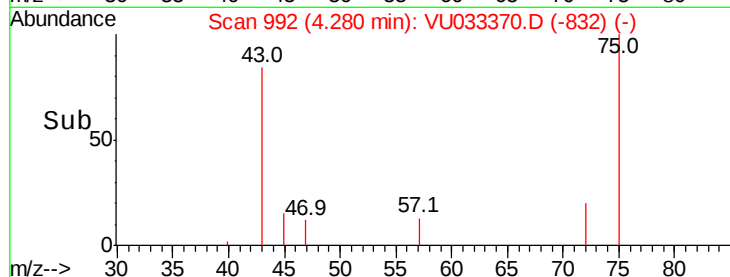
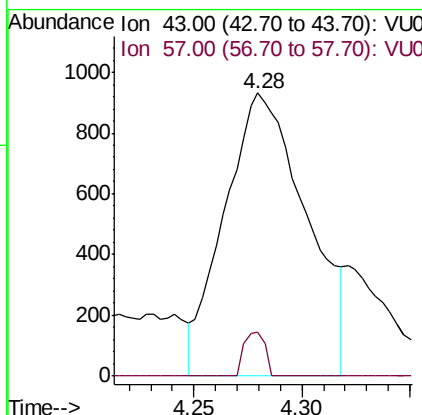
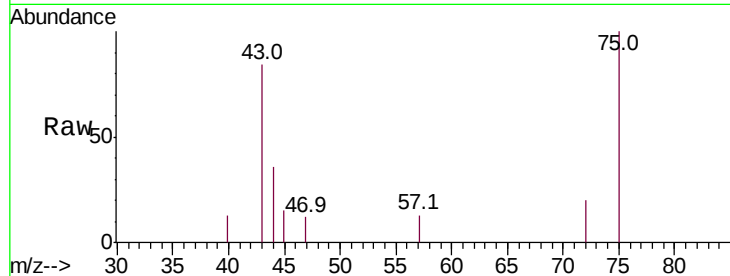
#18
2-Butanone
Concen: 1.092 ug/l m
RT: 4.28 min Scan# 992
Delta R.T. 0.02 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 2461
Ion Ratio Lower Upper
43 100
57 15.3 0.0 17.0

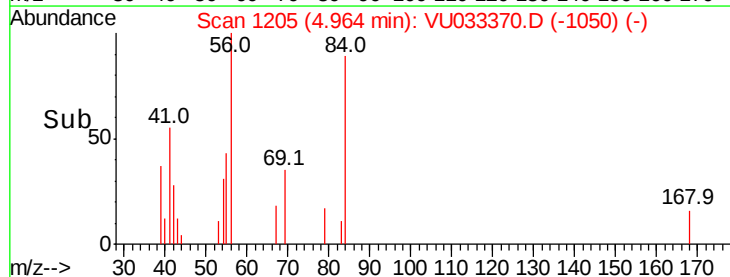
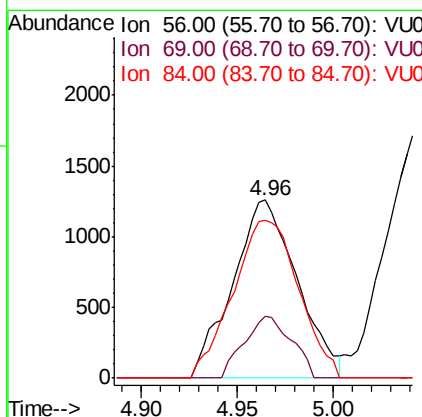
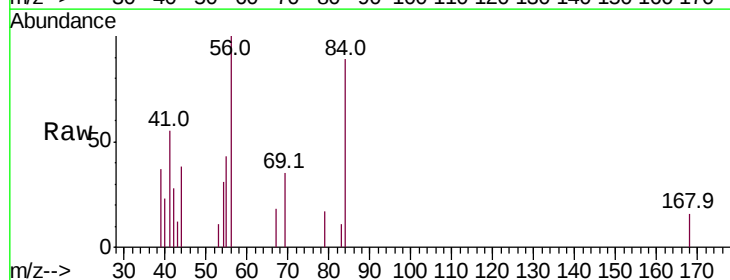
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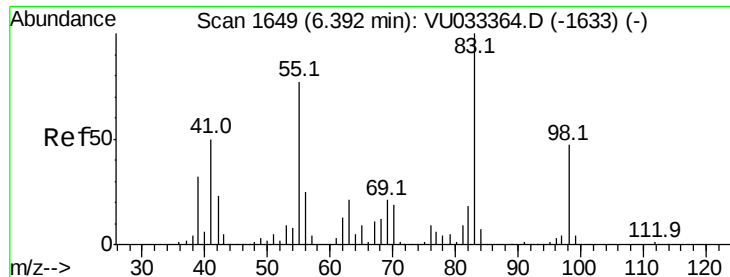
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#19
Cyclohexane
Concen: 0.254 ug/l m
RT: 4.96 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 56 Resp: 2943
Ion Ratio Lower Upper
56 100
69 25.5 25.0 37.4
84 90.0 69.8 104.6





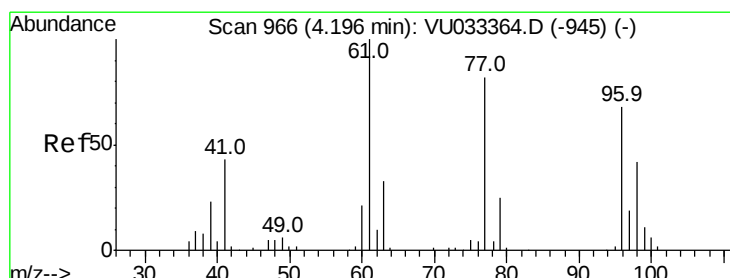
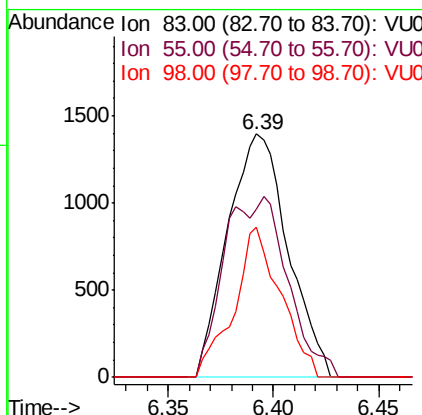
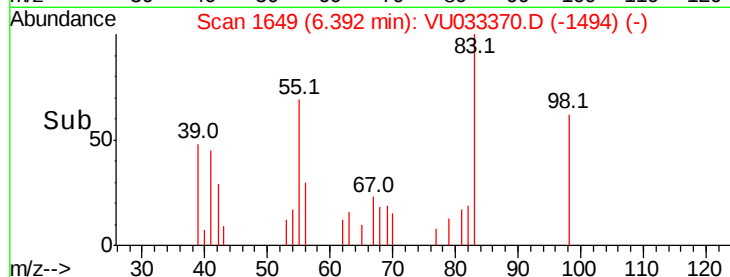
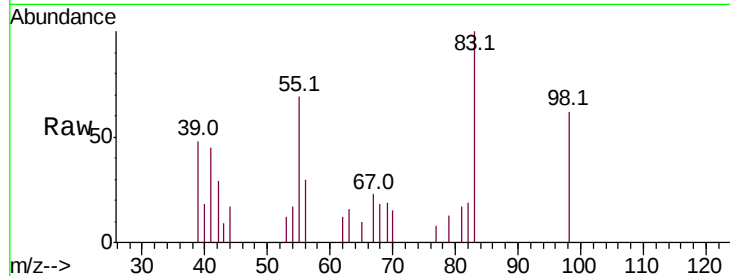
#20
Methvlcvclohexane
Concen: 0.238 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	36.4	62.3	93.5#
98	47.5	37.4	56.0

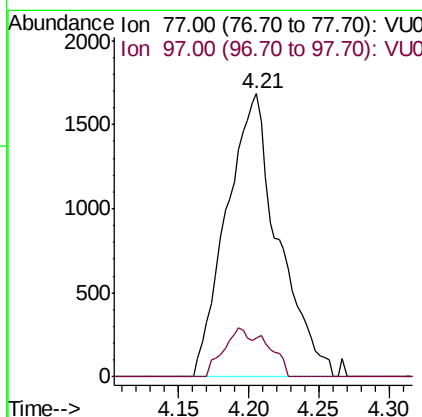
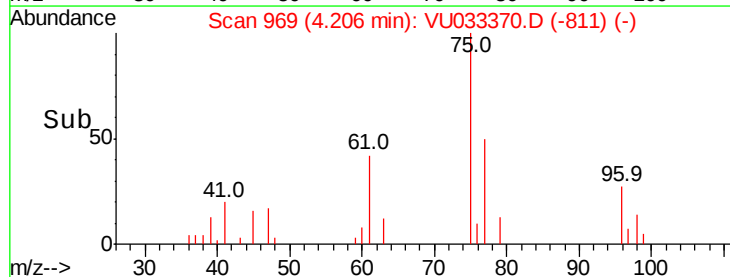
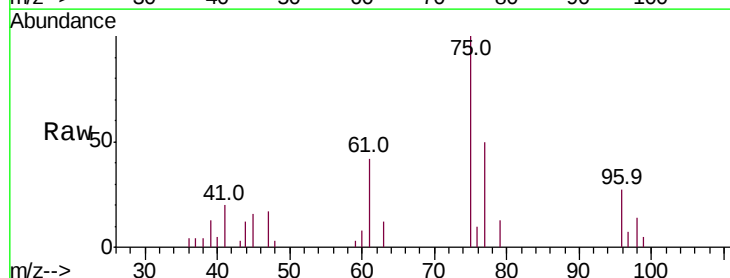
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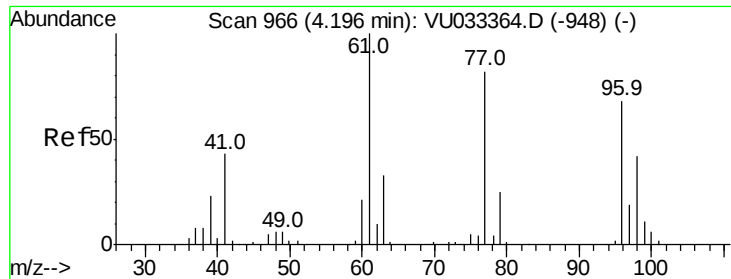
MMDadoda
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#21
2,2-Dichloropropane
Concen: 0.323 ug/l
RT: 4.21 min Scan# 969
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
77	100		
97	9.0	17.8	26.8#





#22

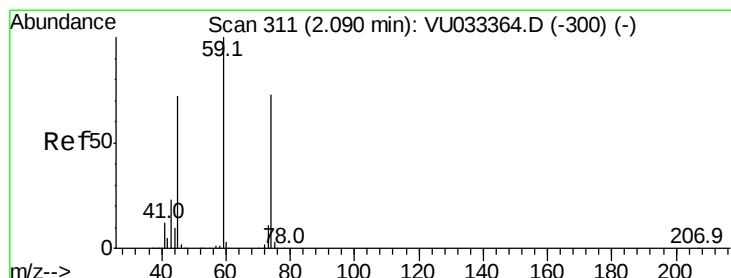
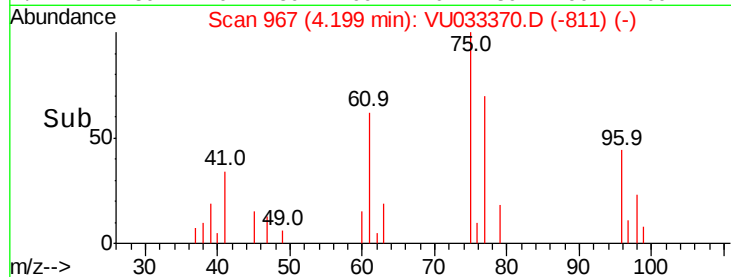
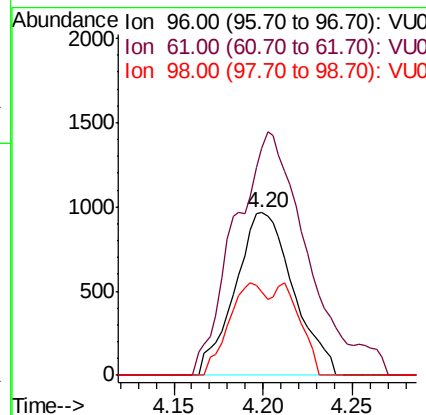
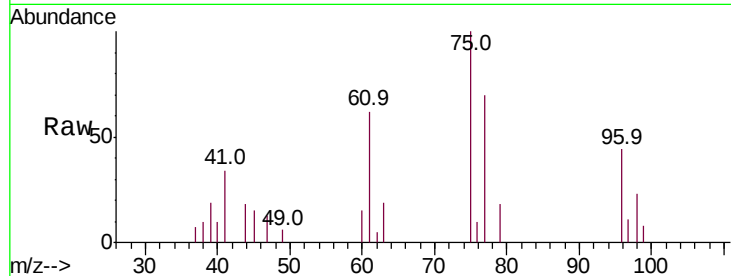
cis-1,2-Dichloroethene
Concen: 0.248 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	186.6	0.0	376.3
98	36.1	31.9	95.9

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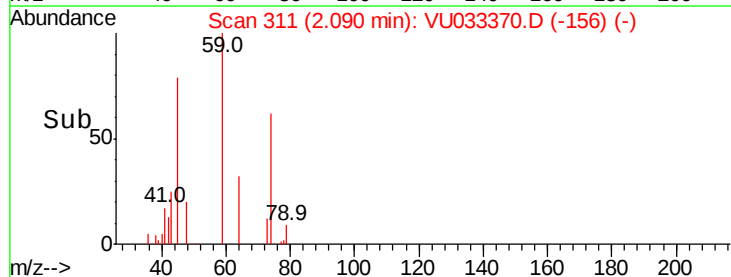
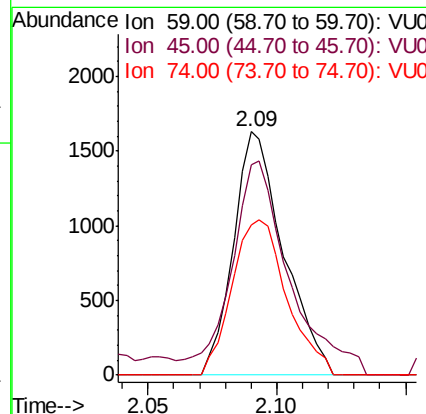
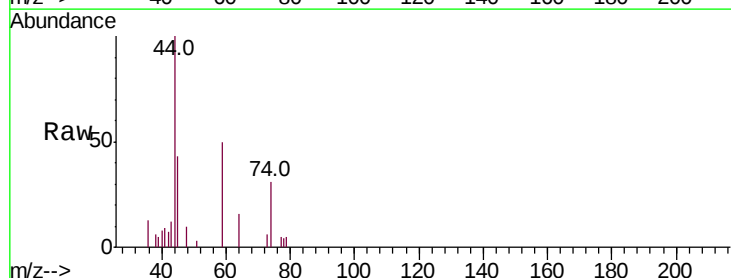
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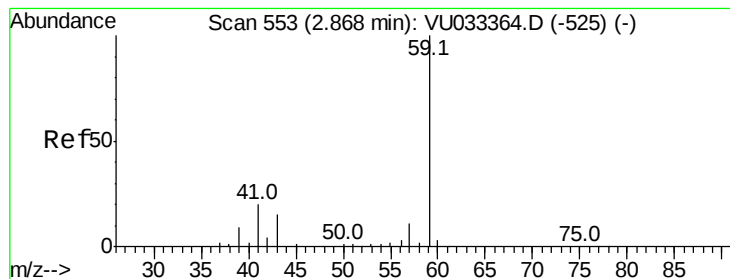


#23

Diethyl Ether
Concen: 0.258 ug/l
RT: 2.09 min Scan# 311
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
59	100		
45	102.1	57.6	86.4#
74	69.6	57.8	86.6





#24

tert-Butyl Alcohol

Concen: 0.316 ug/l m

RT: 2.86 min Scan# 552

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 59 Resp: 415

Ion Ratio Lower Upper

59 100

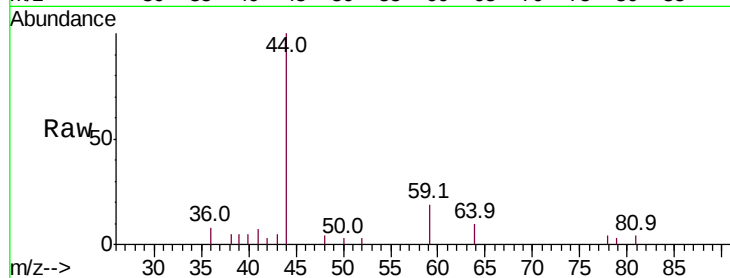
57 0.0 7.8 11.8#

Manual Integrations

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Abundance Ion 59.00 (58.70 to 59.70): VU033364.D (-525) (-)

Ion 57.00 (56.70 to 57.70): VU033364.D (-525) (-)

2.86

800

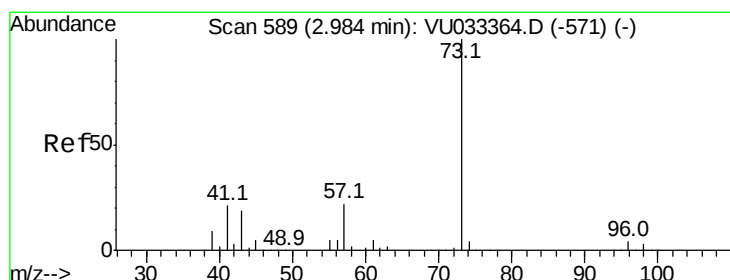
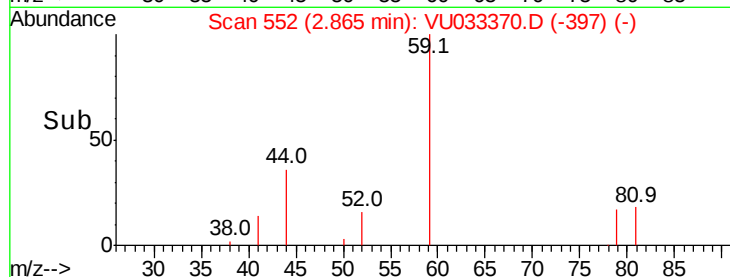
600

400

200

0

Time-->



#25

Methyl tert-Butyl Ether

Concen: 0.240 ug/l

RT: 2.98 min Scan# 589

Delta R.T. -0.00 min

Lab File: VU033370.D

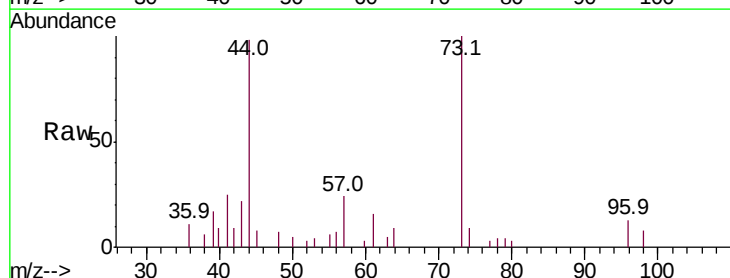
Acq: 23 Jul 2019 10:06

Tgt Ion: 73 Resp: 6855

Ion Ratio Lower Upper

73 100

43 19.4 16.6 24.8



Abundance Ion 73.00 (72.70 to 73.70): VU033364.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033364.D (-571) (-)

2.98

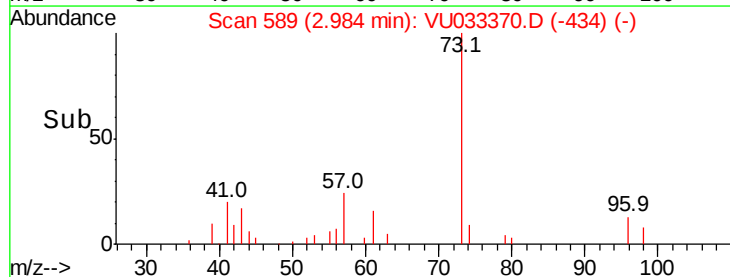
3000

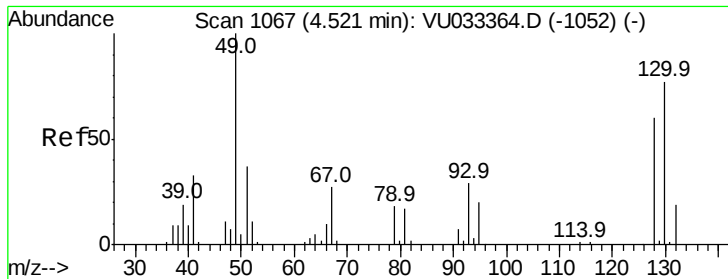
2000

1000

0

Time-->





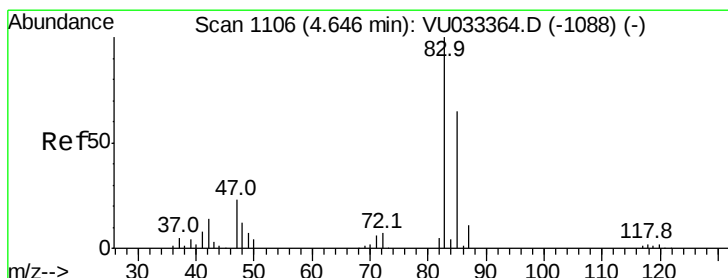
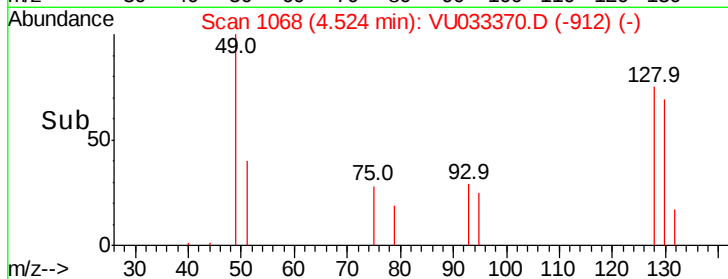
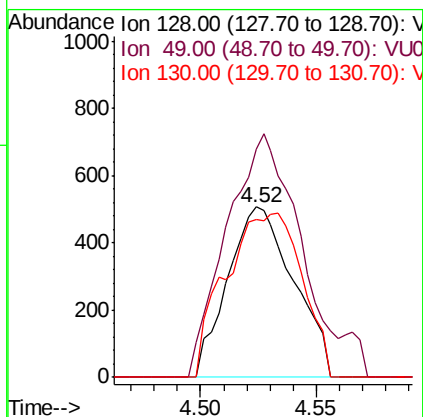
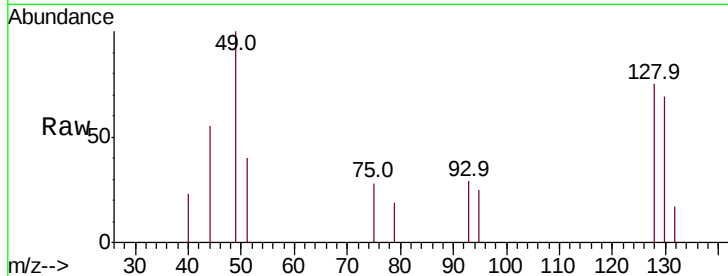
#26
Bromochloromethane
Concen: 0.255 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:128 Resp: 1001
Ion Ratio Lower Upper
128 100
49 157.2 0.0 333.4
130 111.6 103.4 155.2

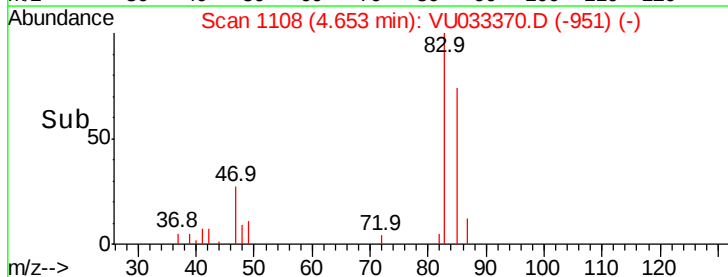
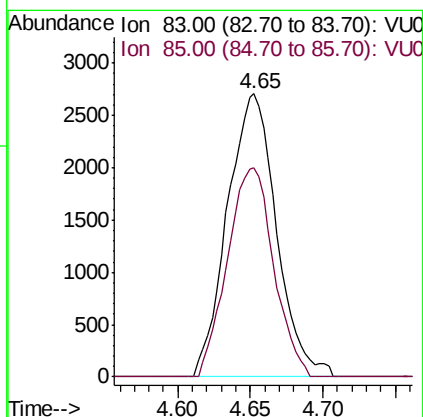
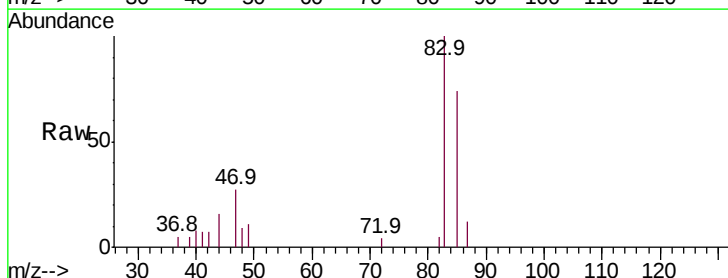
Manual Integrations
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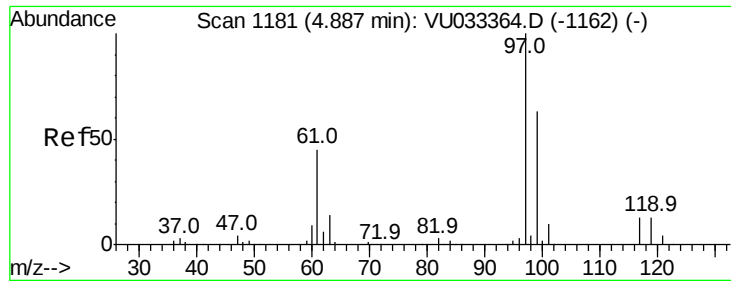
MMDadoda
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#27
Chloroform
Concen: 0.353 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 83 Resp: 6369
Ion Ratio Lower Upper
83 100
85 74.1 0.0 129.8





#28

1,1,1-Trichloroethane

Concen: 0.244 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

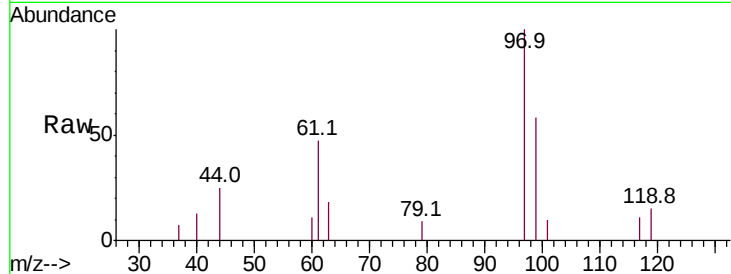
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

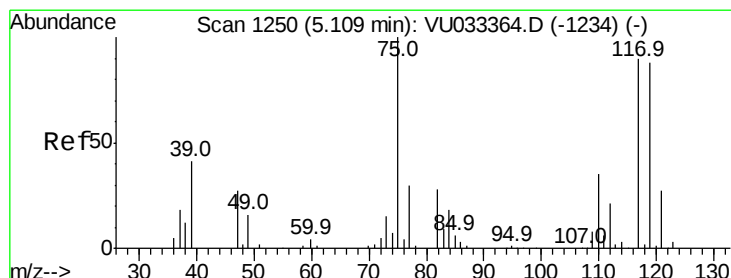
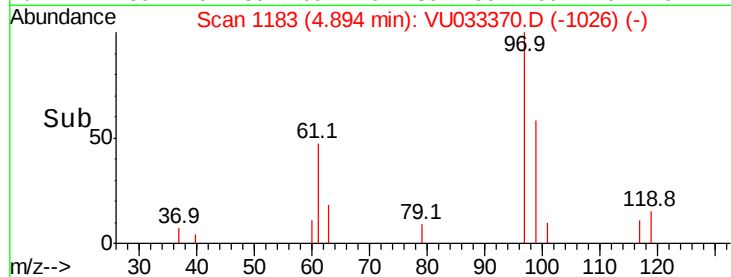
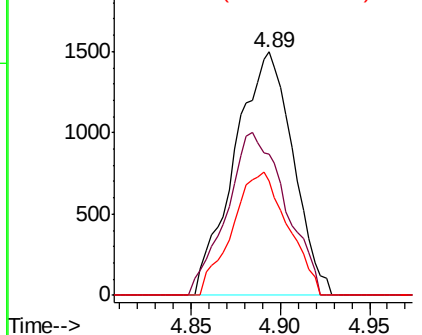
Tot Ion:	97	Resp:	3416
Ion	Ratio	Lower	Upper
97	100		
99	67.3	31.9	95.5
61	48.3	22.7	68.0

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Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.00 (60.70 to 61.70): VU0



#29

1,1-Dichloropropene

Concen: 0.239 ug/l

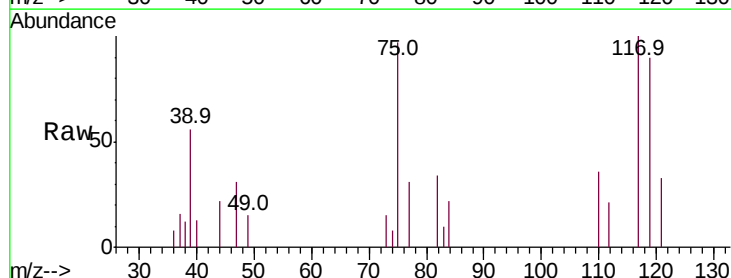
RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

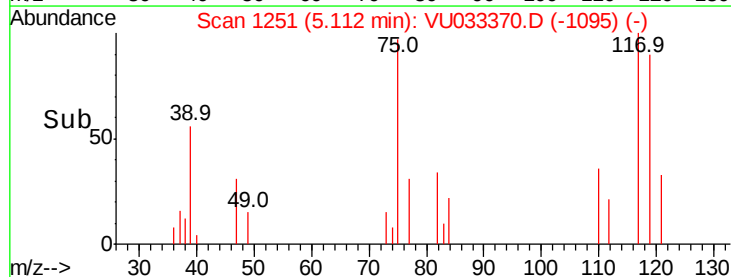
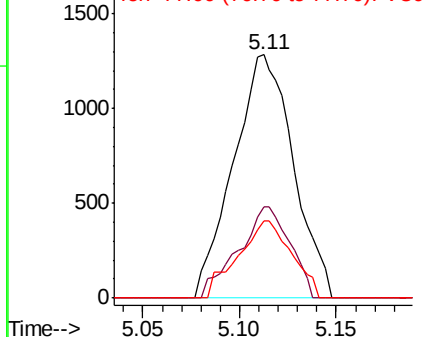
Lab File: VU033370.D

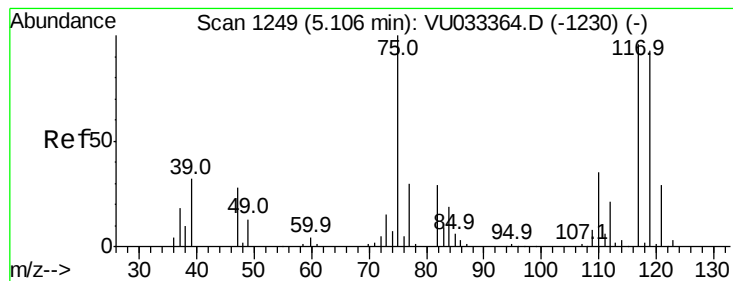
Acq: 23 Jul 2019 10:06

Tgt Ion:	75	Resp:	2759
Ion	Ratio	Lower	Upper
75	100		
110	32.3	17.5	52.6
77	28.5	25.1	37.7



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VU0





#30

Carbon Tetrachloride

Concen: 0.236 ug/l

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:117 Resp: 2899

Ion Ratio Lower Upper

117 100

119 96.3 77.9 116.9

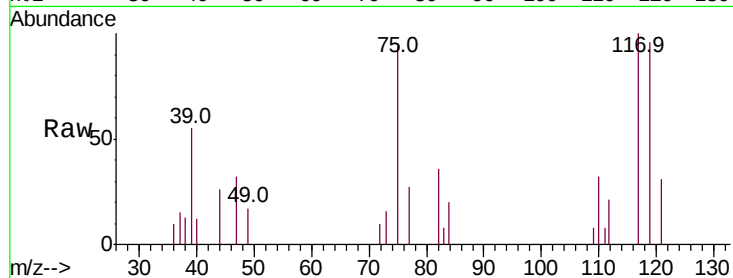
121 30.6 24.0 36.0

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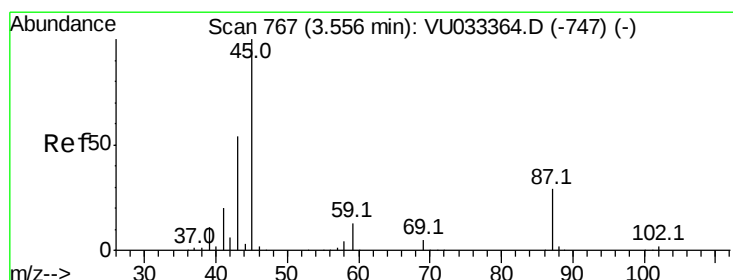
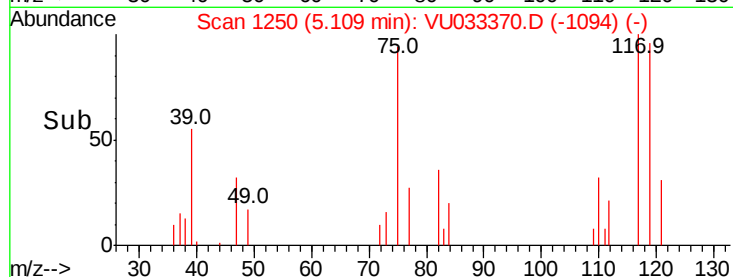
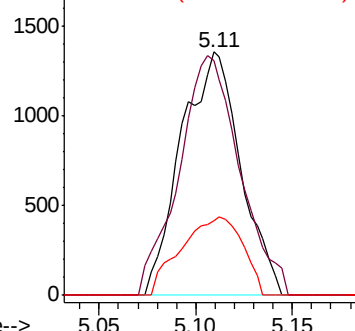
7/25/2019 11:15:27 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#31

Isopropyl Ether

Concen: 0.268 ug/l

RT: 3.56 min Scan# 768

Delta R.T. 0.00 min

Lab File: VU033370.D

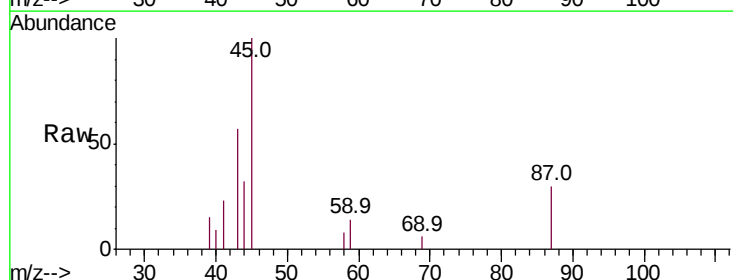
Acq: 23 Jul 2019 10:06

Tgt Ion: 45 Resp: 5351

Ion Ratio Lower Upper

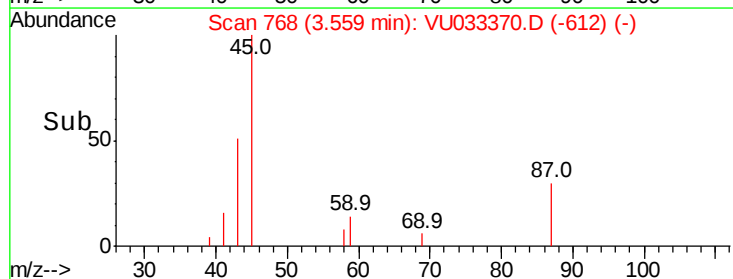
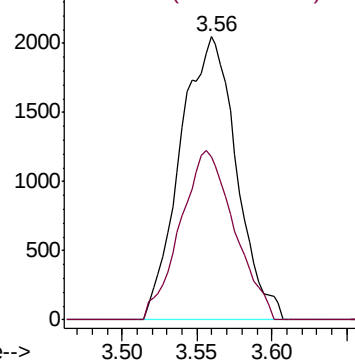
45 100

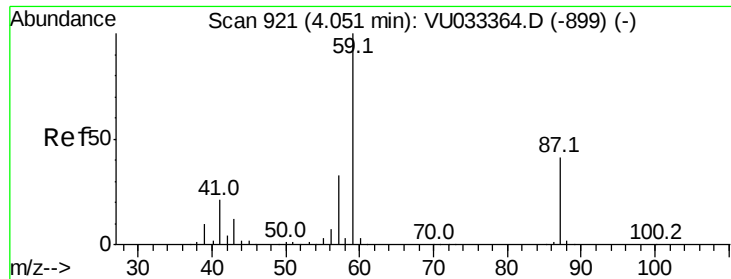
43 57.7 27.8 83.3



Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0





#32

Ethyl-t-butyl ether

Concen: 0.255 ug/l

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 59 Resp: 4898

Ion Ratio Lower Upper

59 100

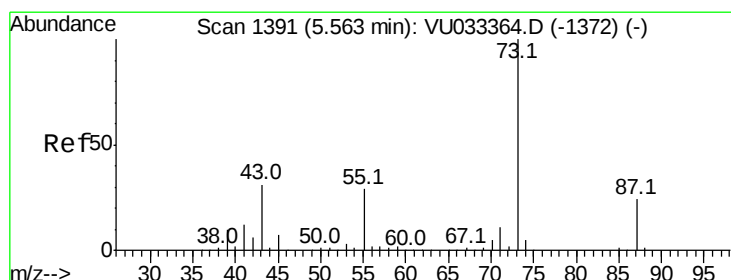
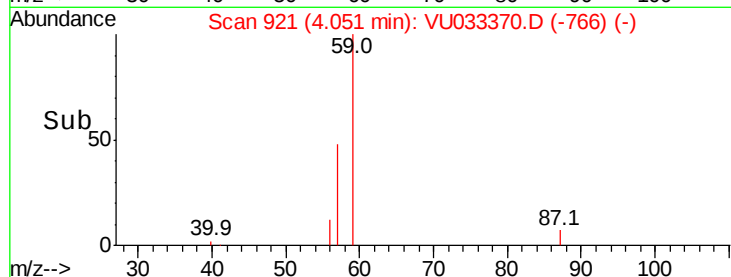
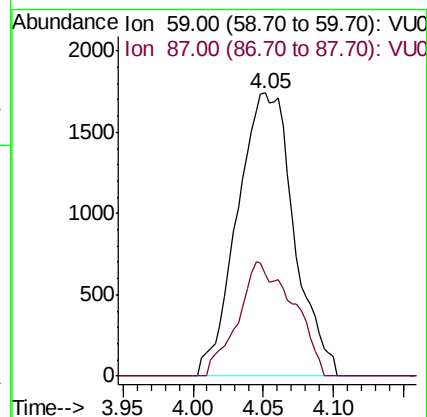
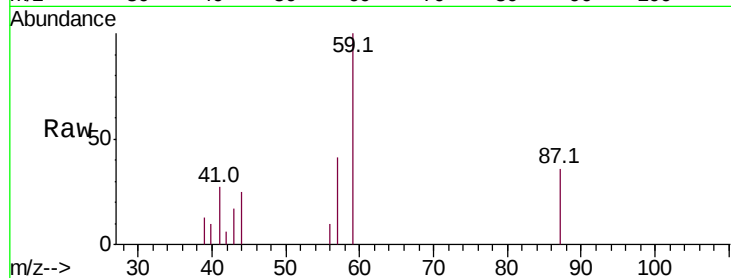
87 39.2 33.8 50.6

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#33

Tert-Amyl methyl ether

Concen: 0.234 ug/l

RT: 5.56 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

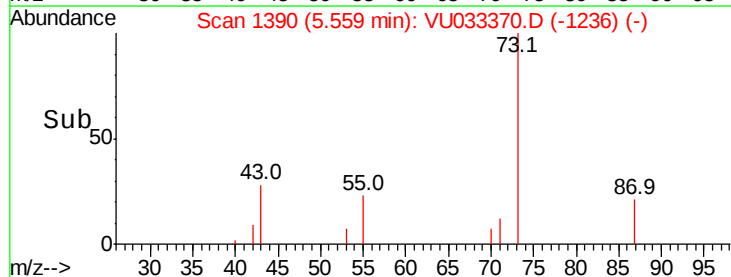
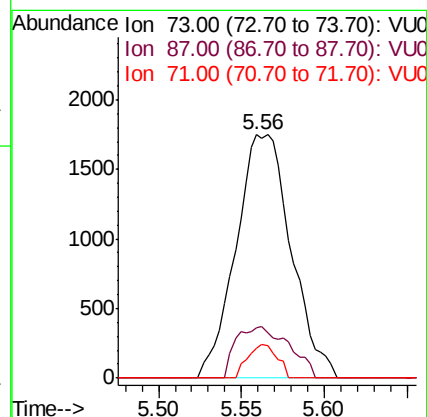
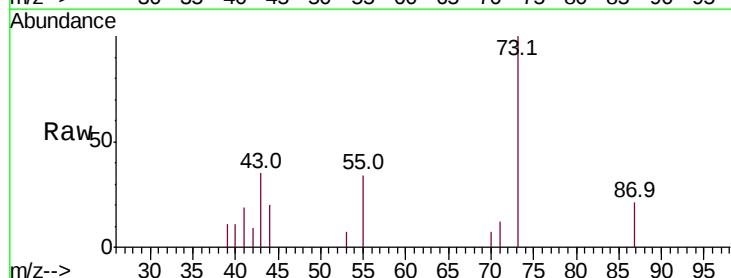
Tgt Ion: 73 Resp: 4043

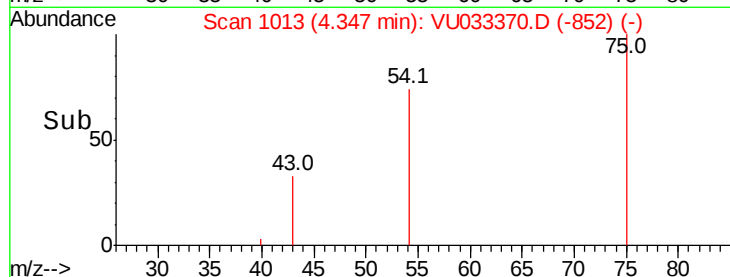
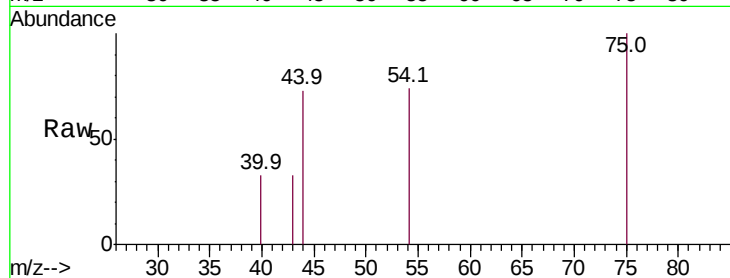
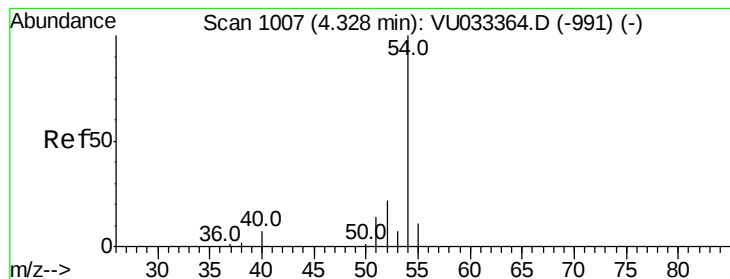
Ion Ratio Lower Upper

73 100

87 20.1 18.9 28.3

71 7.3 9.3 13.9#





#34

Propionitrile

Concen: 0.800 ug/l m

RT: 4.35 min Scan# 1013

Delta R.T. 0.02 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tot Ion: 54 Resp: 517

Ion Ratio Lower Upper

54 100

52 0.0 17.1 25.7#

55 0.0 11.6 17.4#

40 37.1 3.5 5.3#

Instrument :

MSVOA_U

ClientSampleId :

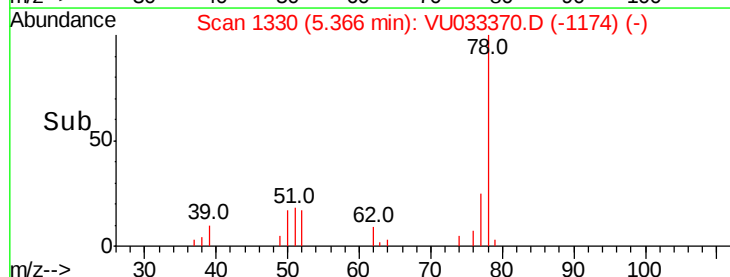
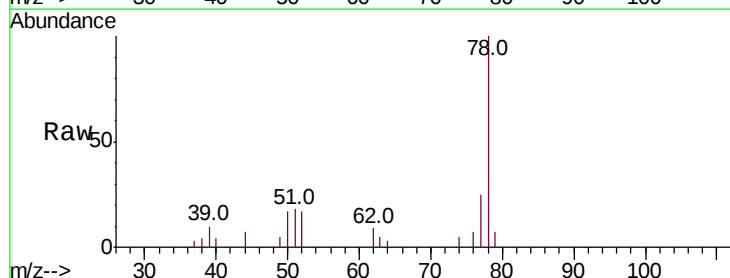
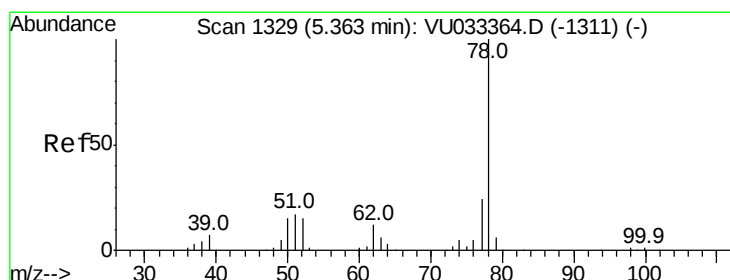
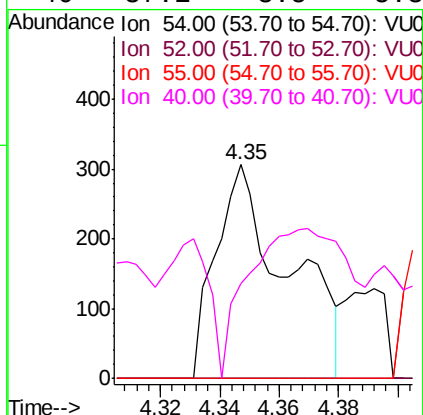
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#35

Benzene

Concen: 0.255 ug/l

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033370.D

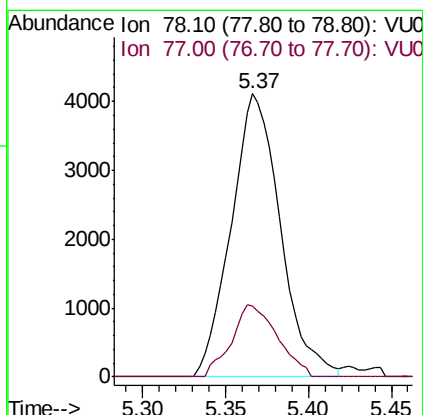
Acq: 23 Jul 2019 10:06

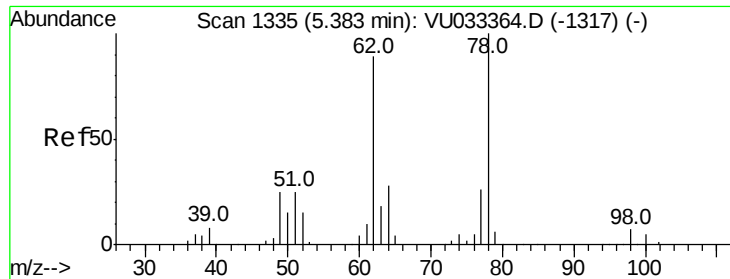
Tgt Ion: 78 Resp: 8483

Ion Ratio Lower Upper

78 100

77 25.0 19.4 29.2





#36

1,2-Dichloroethane

Concen: 0.240 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 62 Resp: 2666

Ion Ratio Lower Upper

62 100

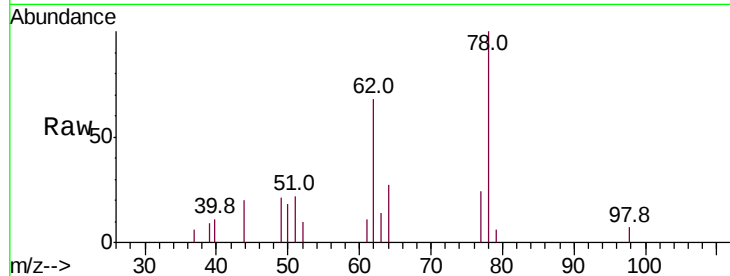
98 3.5 6.5 9.7#

Manual Integrations

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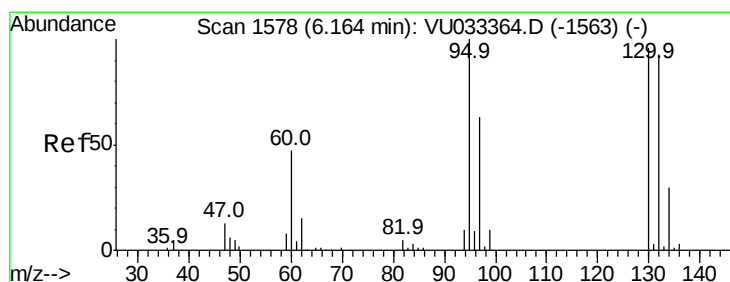
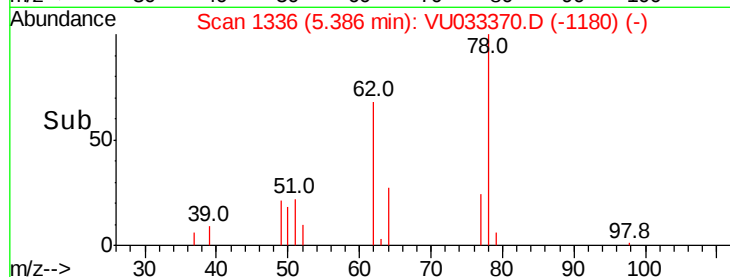
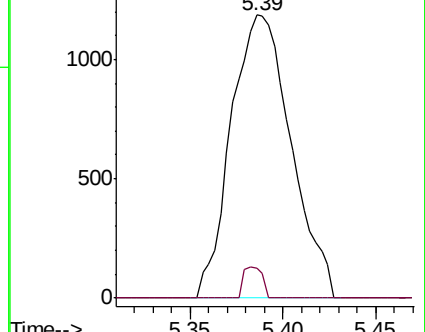
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Abundance Ion 62.00 (61.70 to 62.70): VU033370.D (-1180) (-)

Ion 98.00 (97.70 to 98.70): VU033370.D (-1180) (-)



#37

Trichloroethene

Concen: 0.235 ug/l

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033370.D

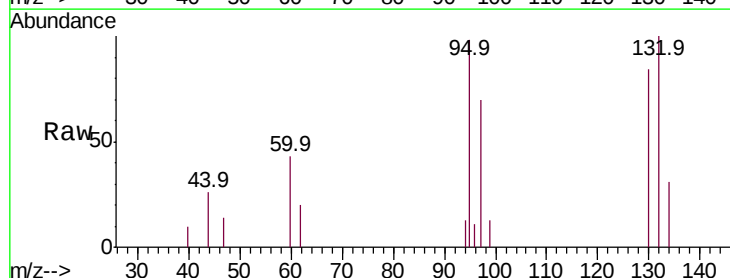
Acq: 23 Jul 2019 10:06

Tgt Ion:130 Resp: 2071

Ion Ratio Lower Upper

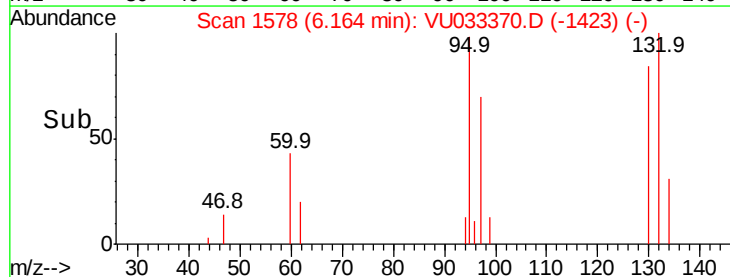
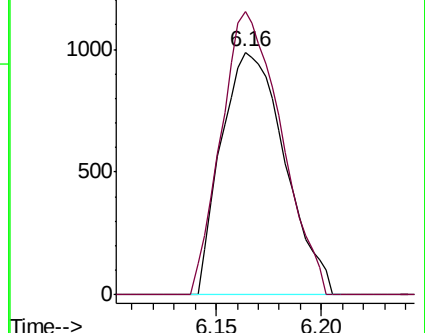
130 100

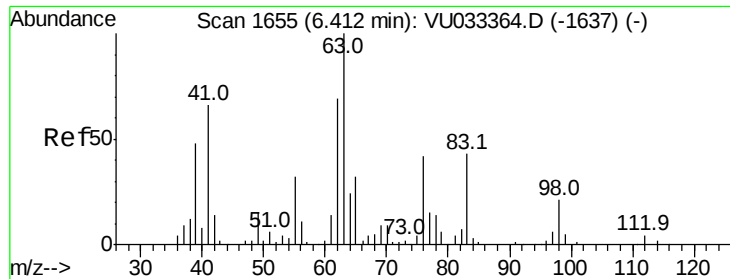
95 116.5 83.4 125.0



Abundance Ion 129.90 (129.60 to 130.60): VU033370.D (-1423) (-)

Ion 94.90 (94.60 to 95.60): VU033370.D (-1423) (-)





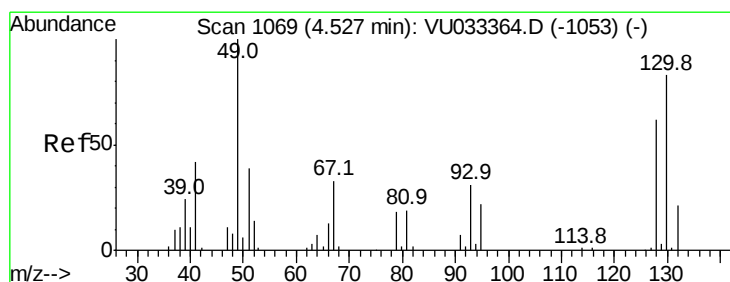
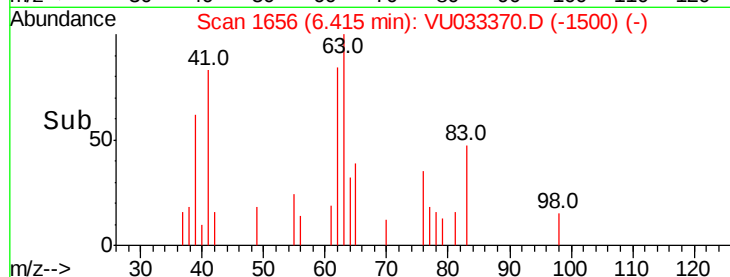
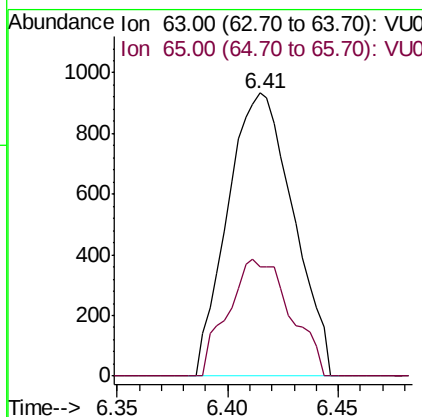
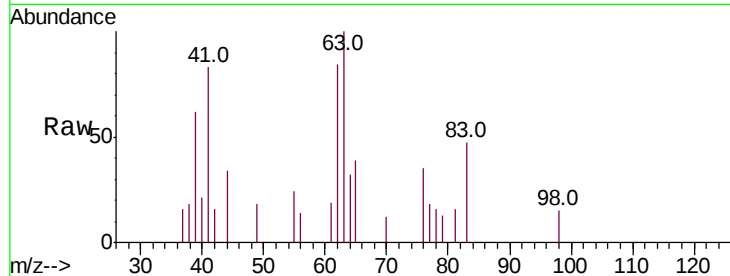
#38
 1,2-Dichloropropane
 Concen: 0.209 ug/l
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 63 Resp: 1921
 Ion Ratio Lower Upper
 63 100
 65 38.8 25.7 38.5#

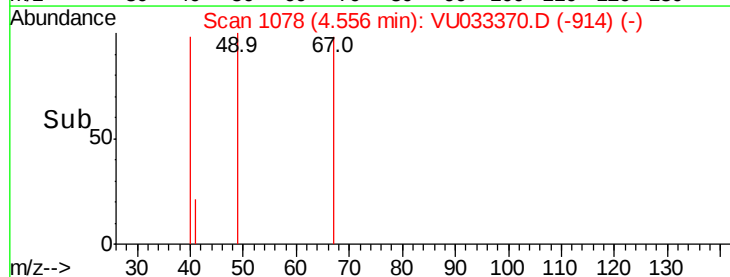
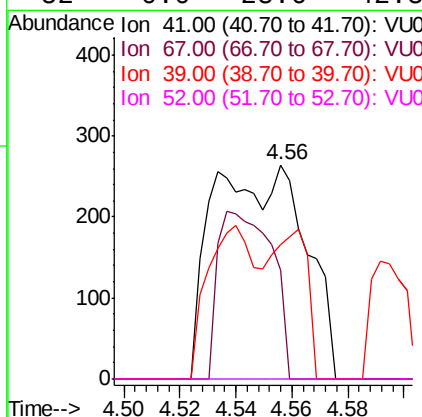
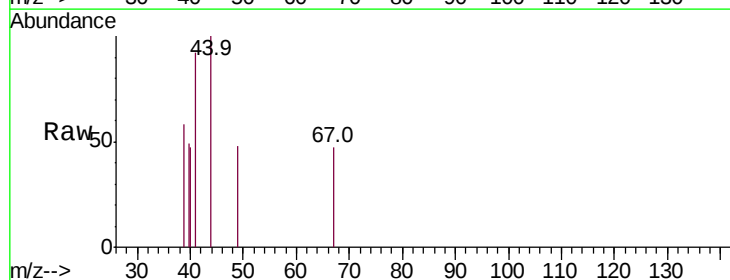
Manual Integrations
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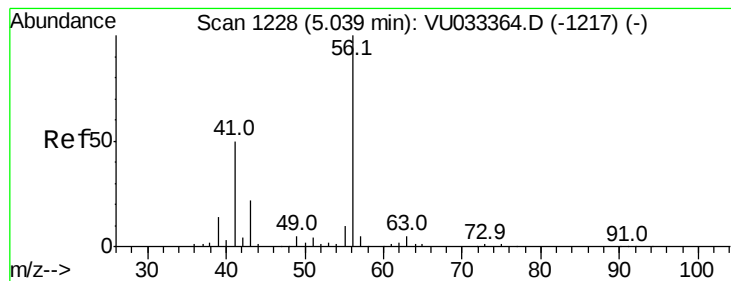
MMDadoda
 7/25/2019 11:15:27 AM



#39
 Methacrylonitrile
 Concen: 0.235 ug/l m
 RT: 4.56 min Scan# 1078
 Delta R.T. 0.03 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 41 Resp: 603
 Ion Ratio Lower Upper
 41 100
 67 46.1 64.4 96.6#
 39 38.8 46.8 70.2#
 52 0.0 28.6 42.8#





#42

1-Chlorobutane

Concen: 0.238 ug/l

RT: 5.04 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 3683

Ion Ratio Lower Upper

56 100

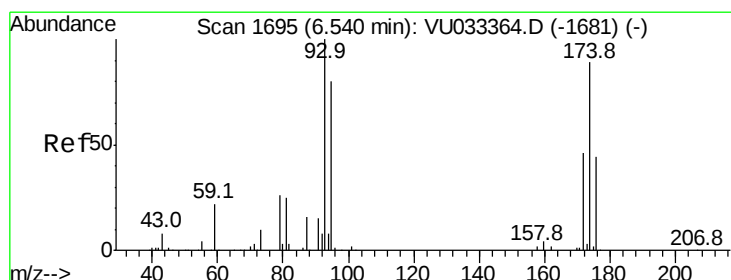
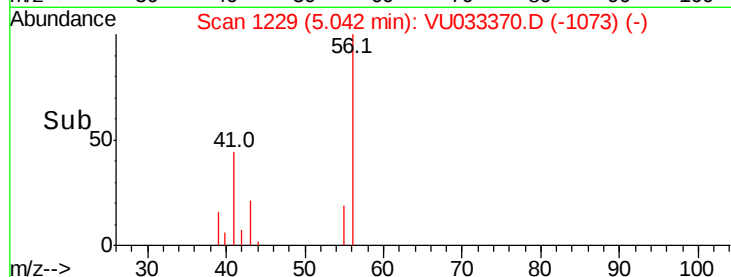
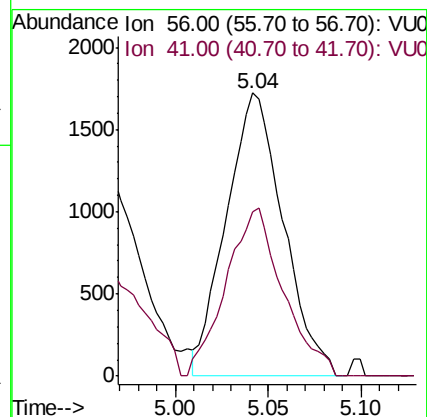
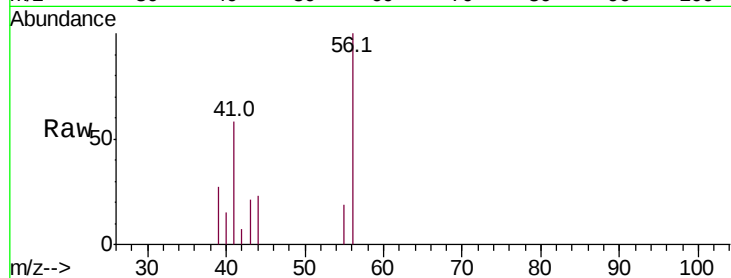
41 59.5 25.7 77.1

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#43

Dibromomethane

Concen: 0.218 ug/l

RT: 6.54 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

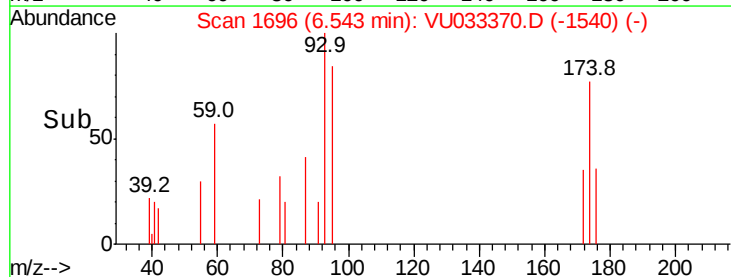
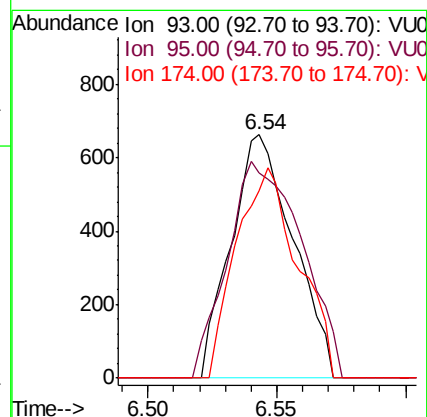
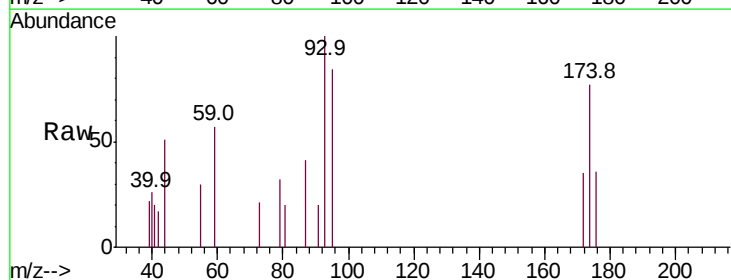
Tgt Ion: 93 Resp: 1110

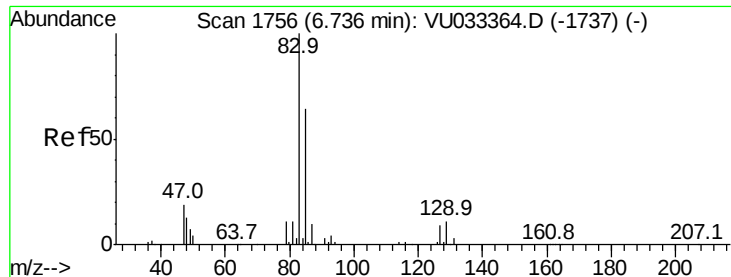
Ion Ratio Lower Upper

93 100

95 106.8 65.3 97.9#

174 85.9 70.7 106.1





#44

Bromodichloromethane

Concen: 0.284 ug/l

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

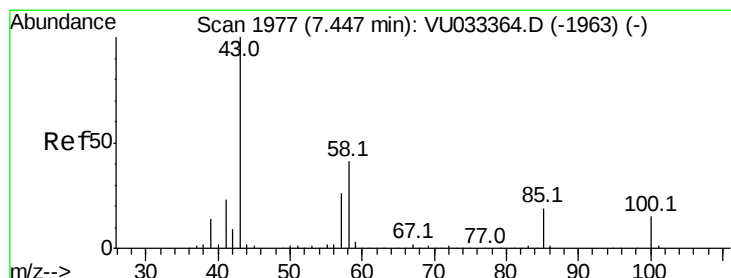
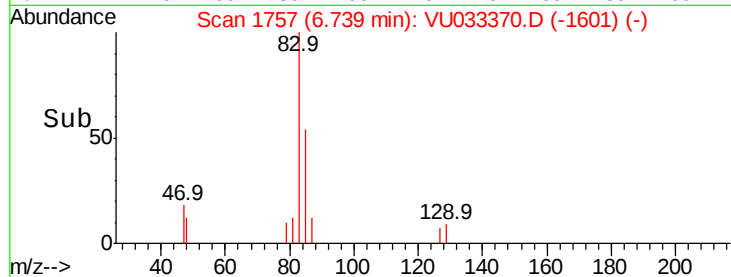
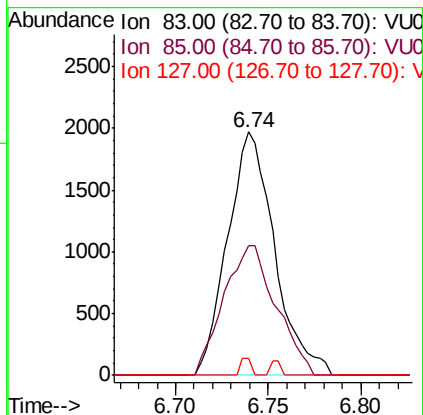
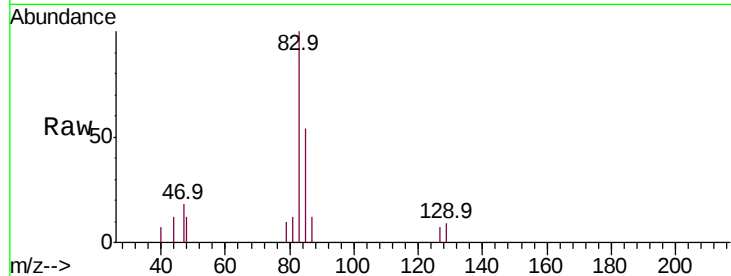
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
85	53.5	51.1	76.7
127	7.0	7.2	10.8

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#45

4-Methyl-2-Pentanone

Concen: 1.115 ug/l

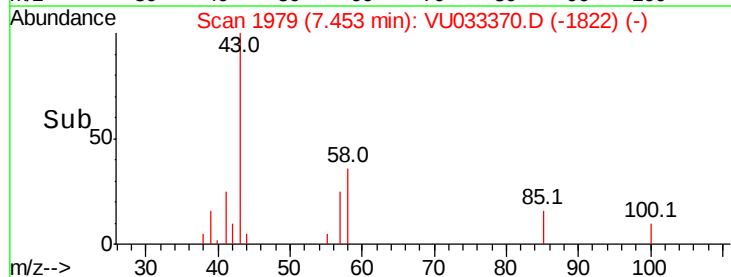
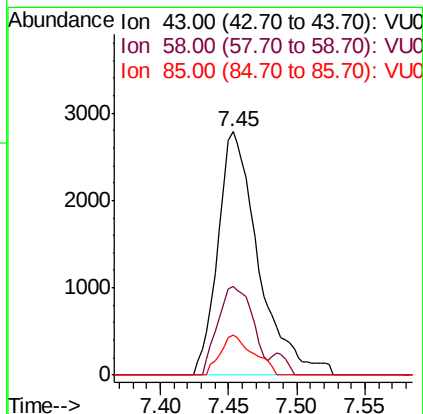
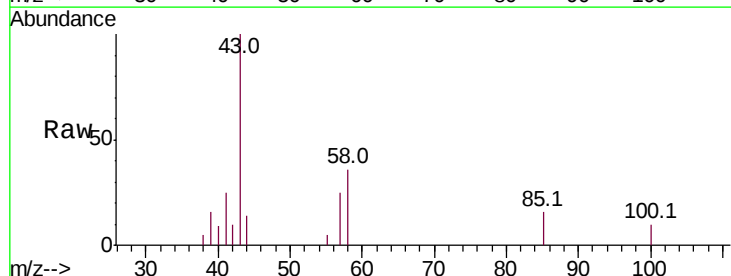
RT: 7.45 min Scan# 1979

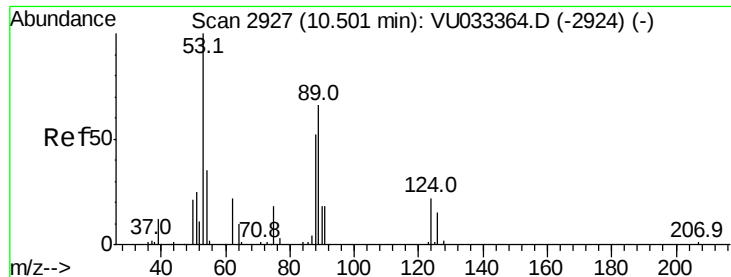
Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.4	20.3	60.8
85	13.3	15.0	22.6





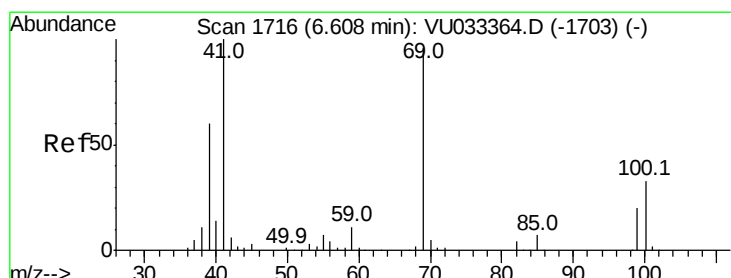
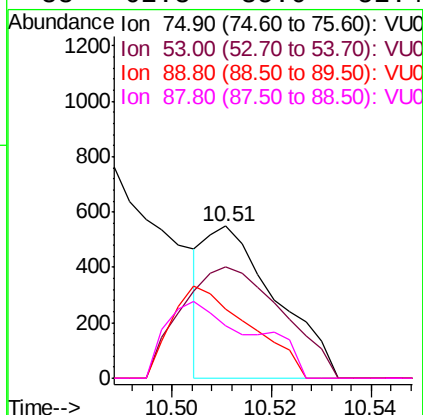
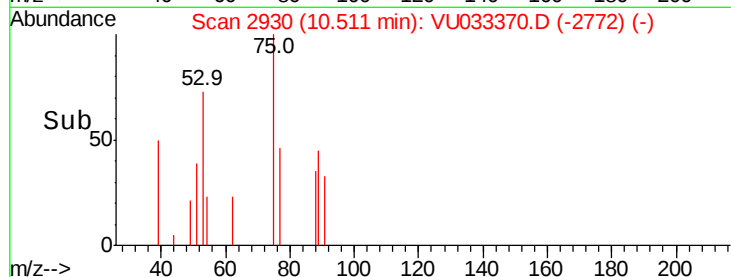
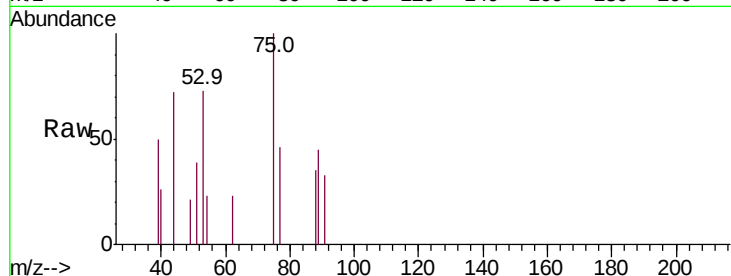
#46
t-1,4-Dichloro-2-butene
Concen: 0.257 ug/l m
RT: 10.51 min Scan# 2930
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	105.0	62.9	94.3#
89	68.0	43.0	64.4#
88	62.8	35.0	52.4#

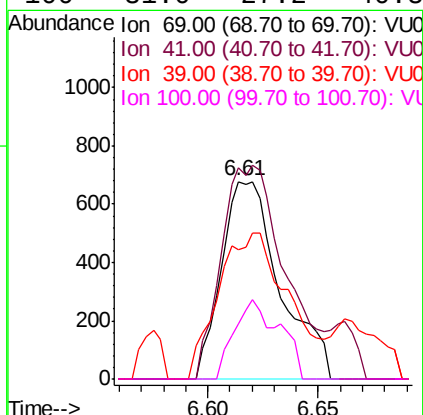
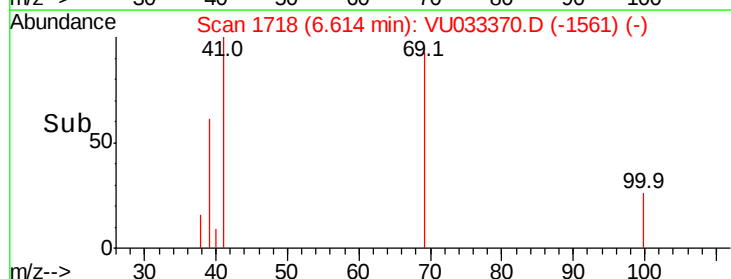
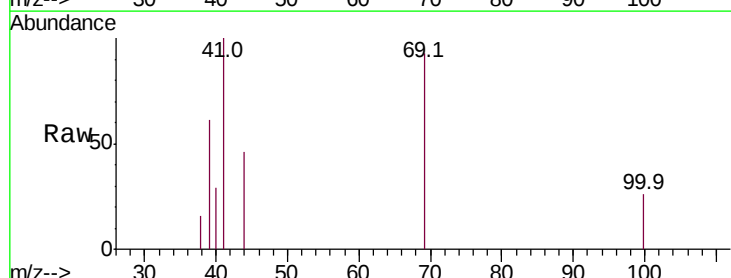
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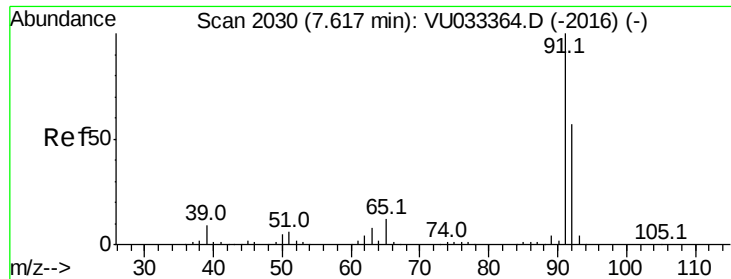
MMDadoda
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#47
Methyl methacrylate
Concen: 0.323 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
69	100		
41	117.2	0.0	208.2
39	88.4	50.6	75.8#
100	31.0	27.2	40.8





#49

Toluene

Concen: 0.217 ug/l

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 92 Resp: 4149

Ion Ratio Lower Upper

92 100

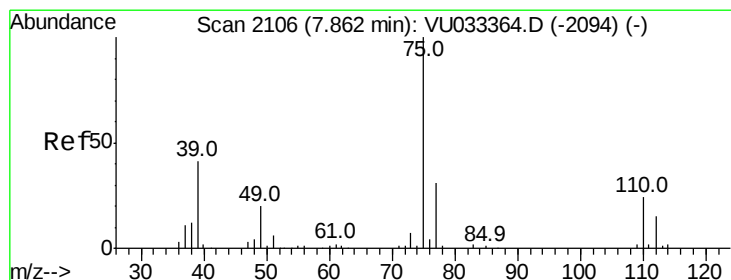
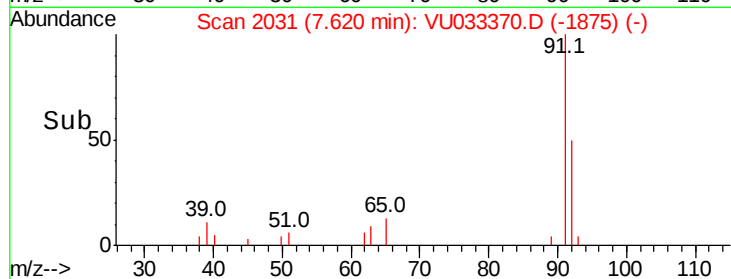
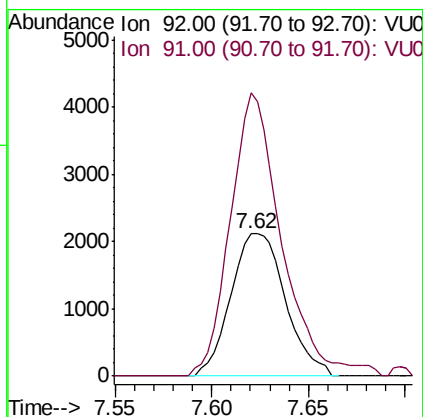
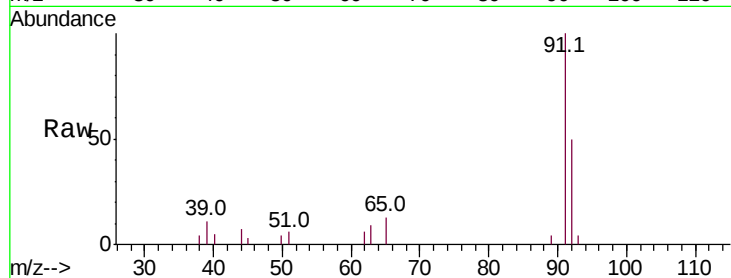
91 187.2 142.1 213.1

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#50

t-1,3-Dichloropropene

Concen: 0.239 ug/l

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU033370.D

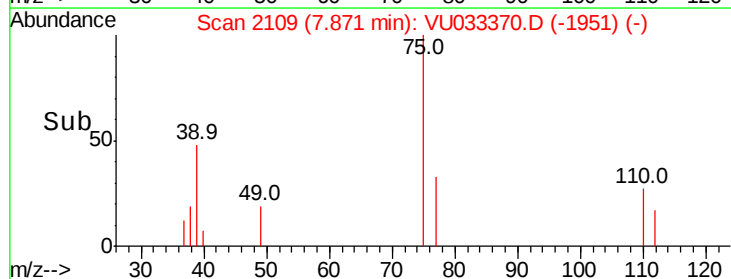
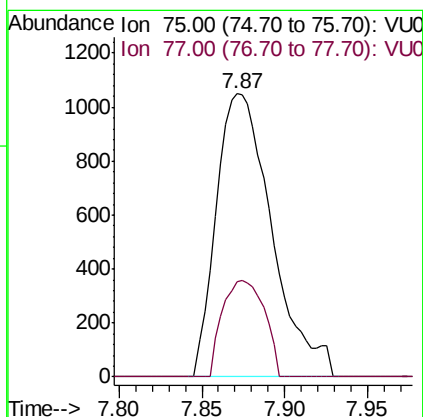
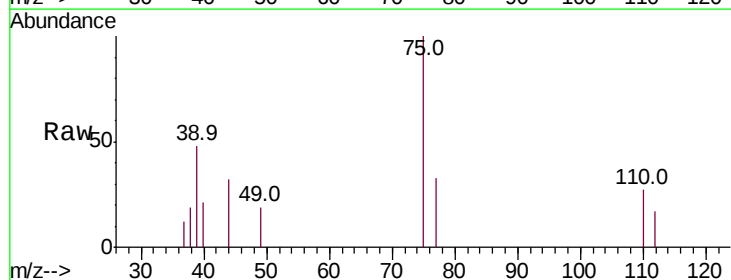
Acq: 23 Jul 2019 10:06

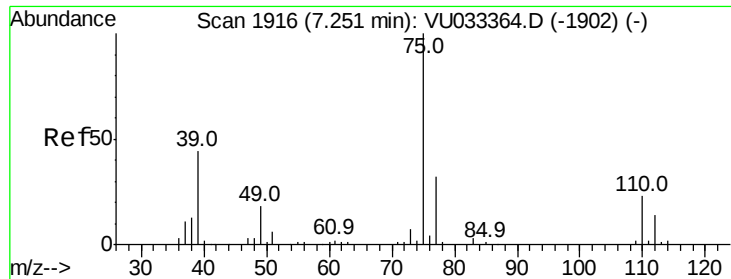
Tgt Ion: 75 Resp: 2445

Ion Ratio Lower Upper

75 100

77 33.5 25.2 37.8





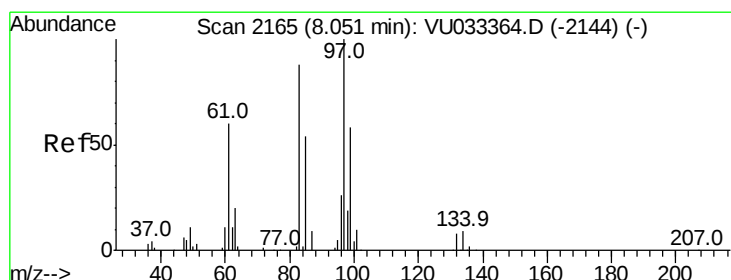
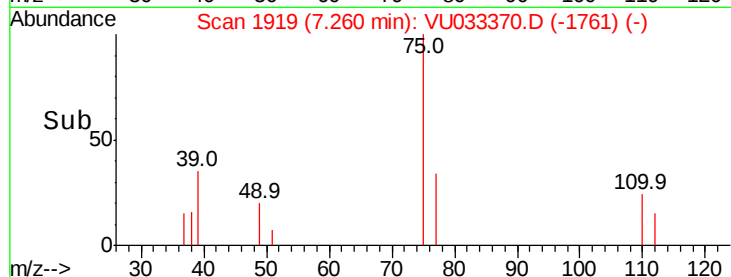
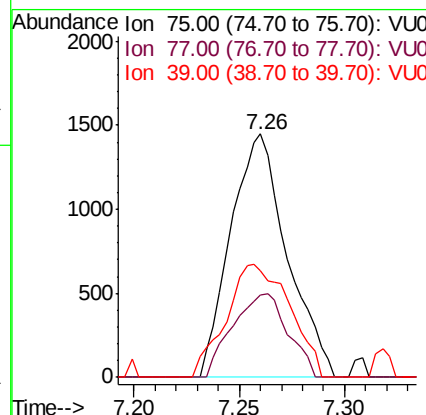
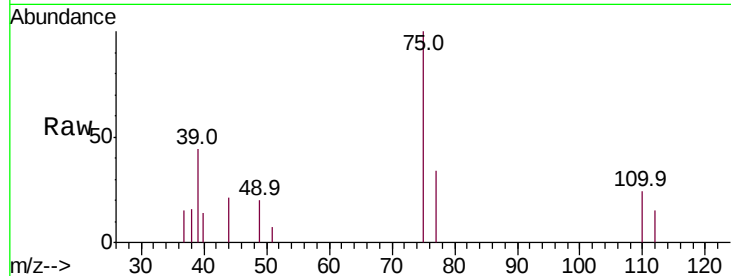
#51
 cis-1,3-Dichloropropene
 Concen: 0.223 ug/l
 RT: 7.26 min Scan# 1919
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.0	25.8	38.8
39	43.9	35.2	52.8

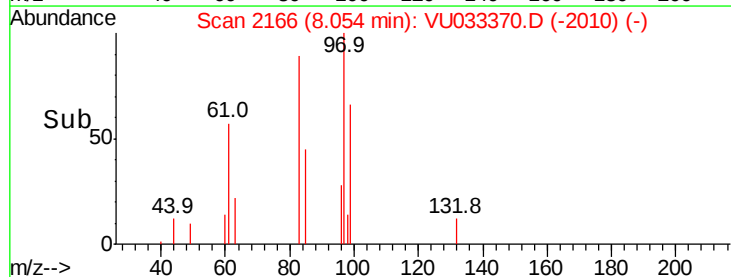
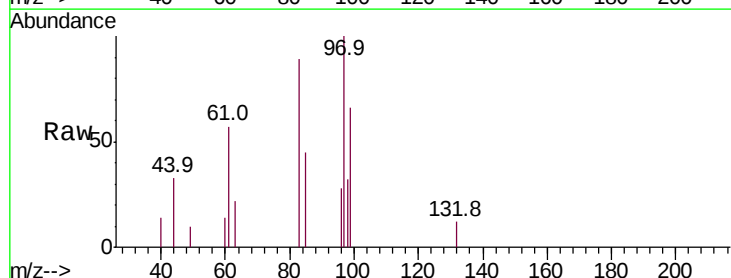
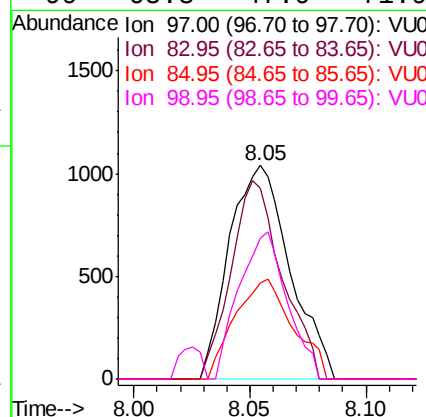
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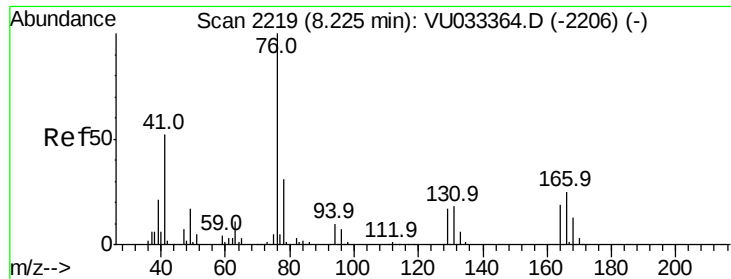
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#52
 1,1,2-Trichloroethane
 Concen: 0.277 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.4	70.2	105.2
85	45.2	43.5	65.3
99	65.8	47.9	71.9





#53

1,3-Dichloropropane

Concen: 0.231 ug/l

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 2652

Ion Ratio Lower Upper

76 100

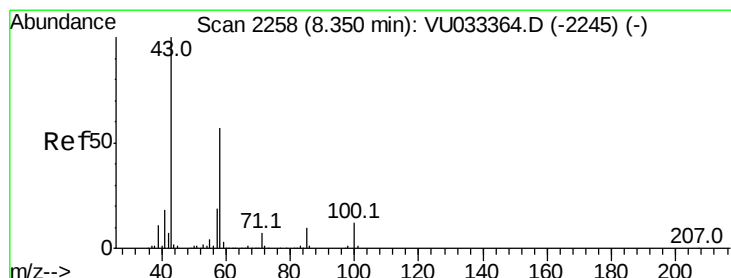
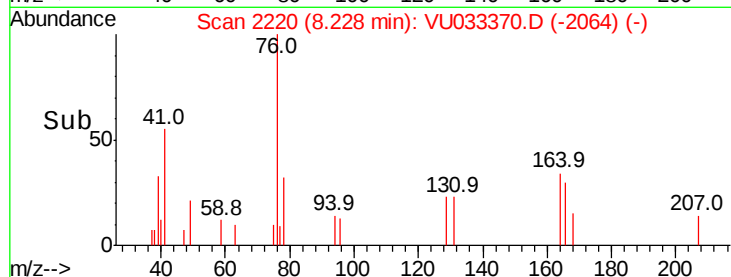
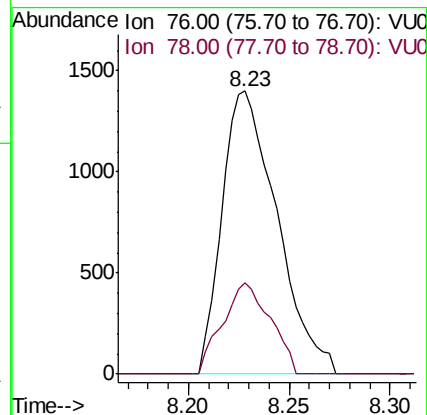
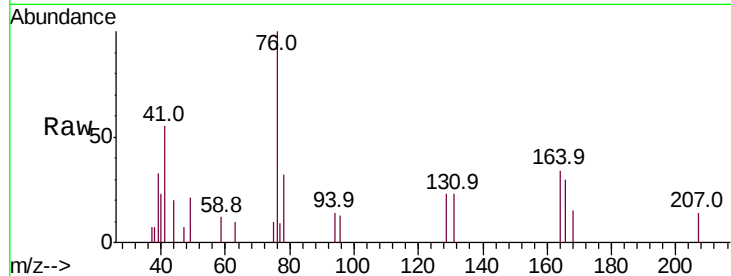
78 28.1 25.7 38.5

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#54

2-Hexanone

Concen: 0.976 ug/l

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

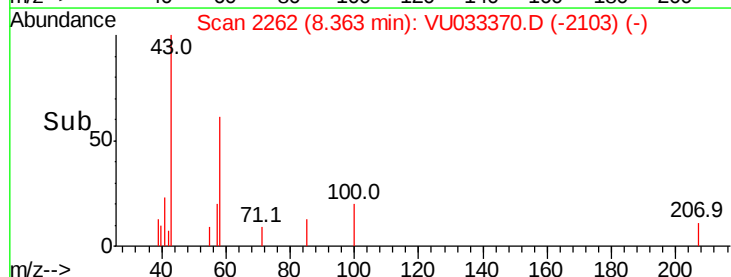
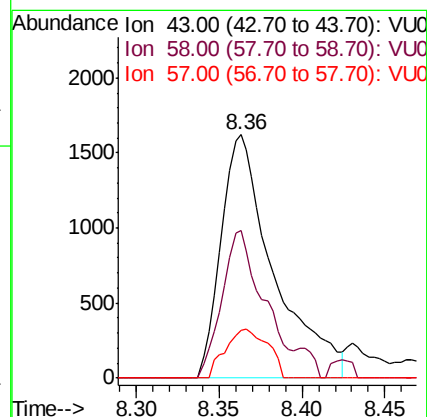
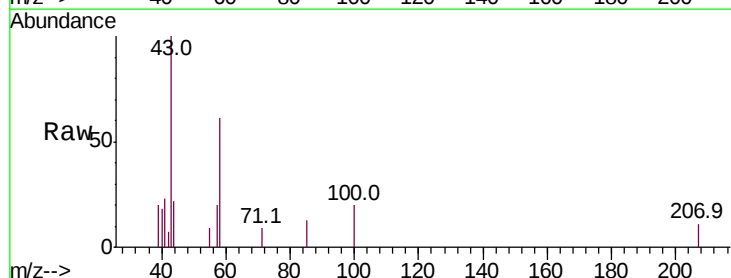
Tgt Ion: 43 Resp: 3566

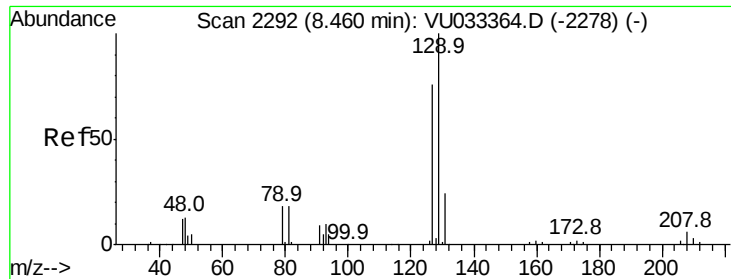
Ion Ratio Lower Upper

43 100

58 48.2 36.0 76.0

57 16.1 0.0 39.4





#55

Dibromochloromethane

Concen: 0.228 ug/l

RT: 8.46 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:129 Resp: 1808

Ion Ratio Lower Upper

129 100

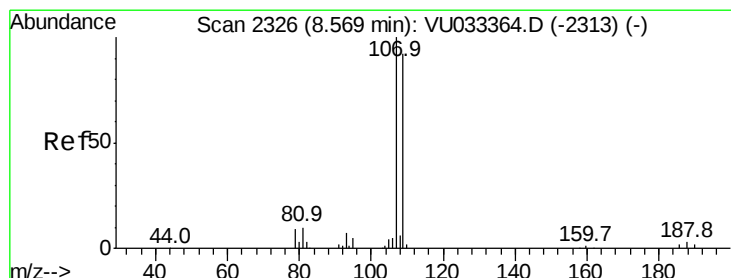
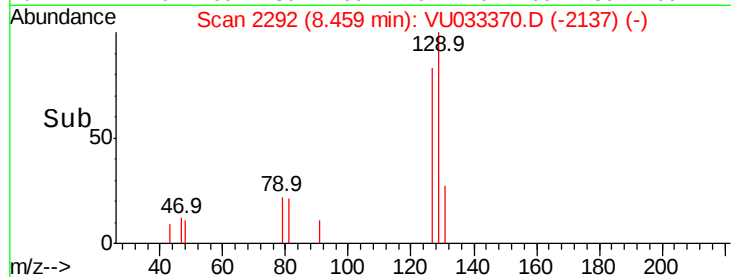
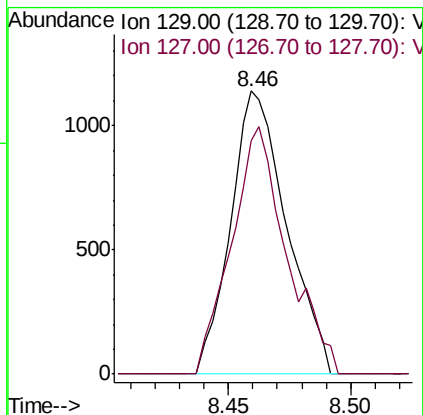
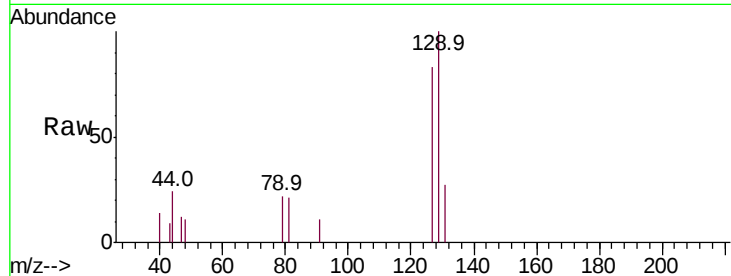
127 86.5 60.9 91.3

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#56

1,2-Dibromoethane

Concen: 0.234 ug/l

RT: 8.58 min Scan# 2329

Delta R.T. 0.01 min

Lab File: VU033370.D

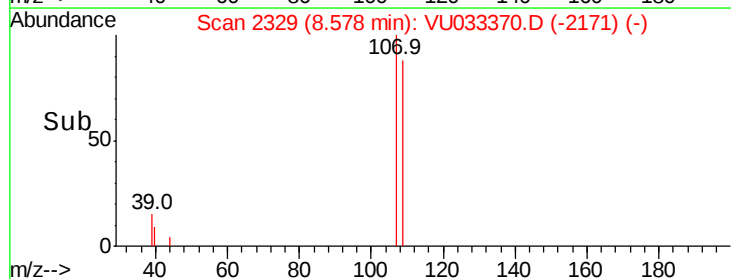
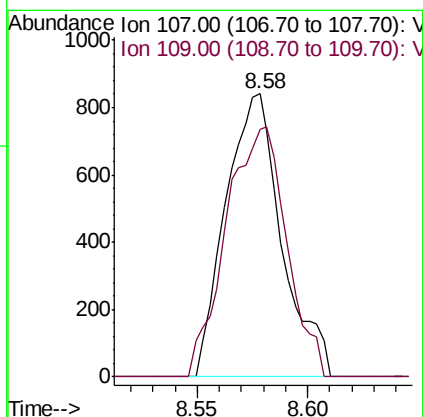
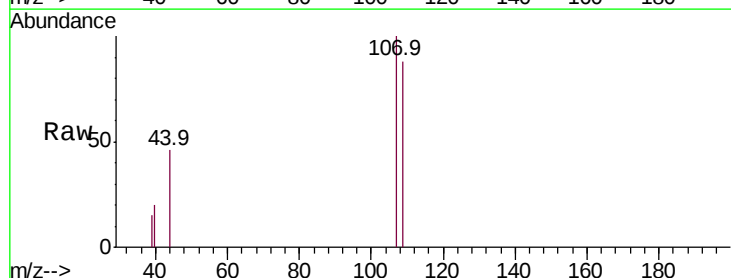
Acq: 23 Jul 2019 10:06

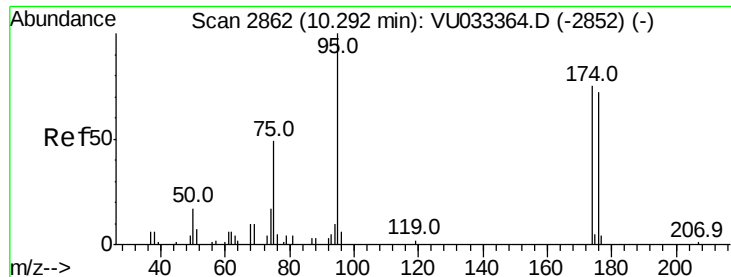
Tgt Ion:107 Resp: 1482

Ion Ratio Lower Upper

107 100

109 95.0 0.0 184.8





#57

4-Bromofluorobenzene

Concen: 0.856 ug/l

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

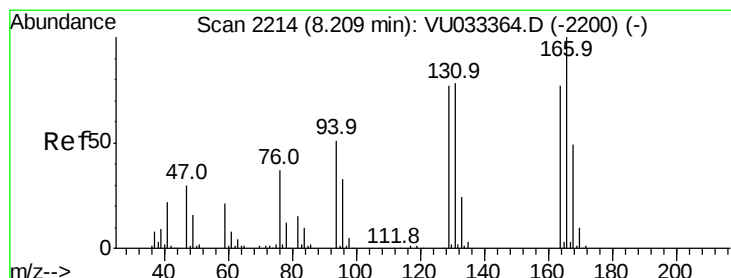
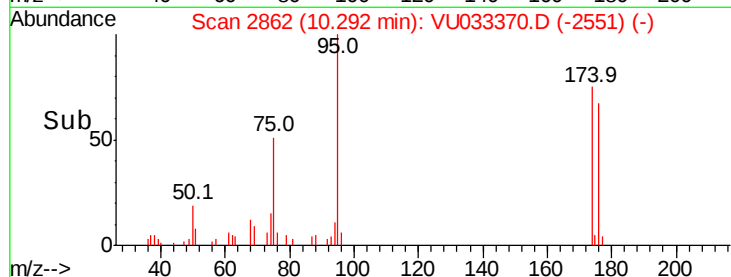
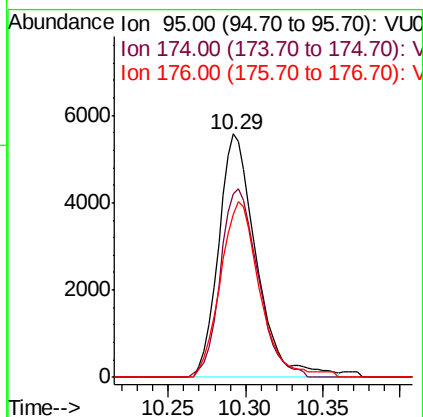
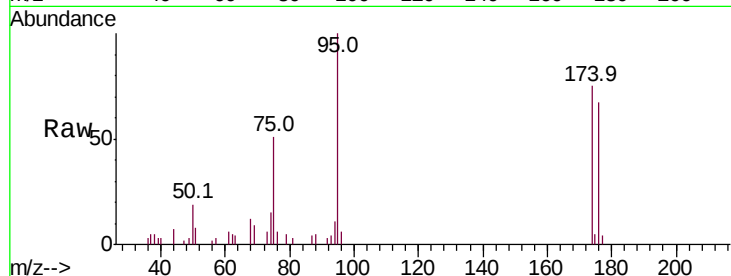
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	95	Resp:	9372
Ion	Ratio	Lower	Upper
95	100		
174	78.0	58.8	88.2
176	74.8	54.4	81.6

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#58

Tetrachloroethene

Concen: 0.256 ug/l

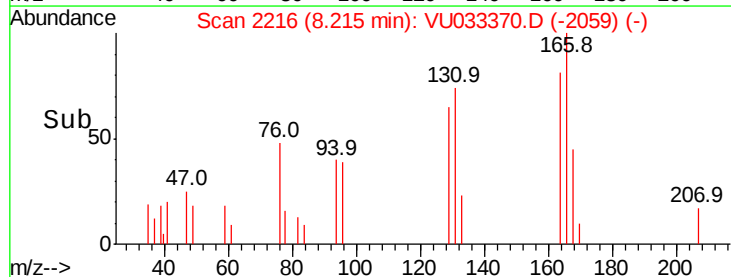
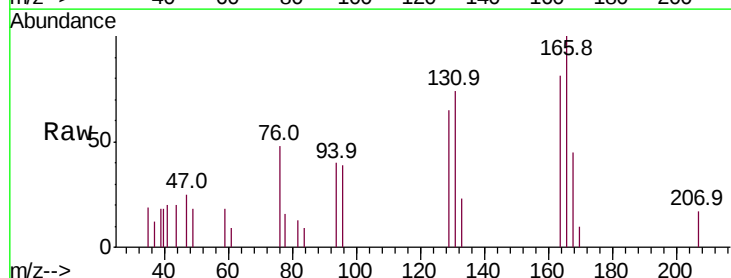
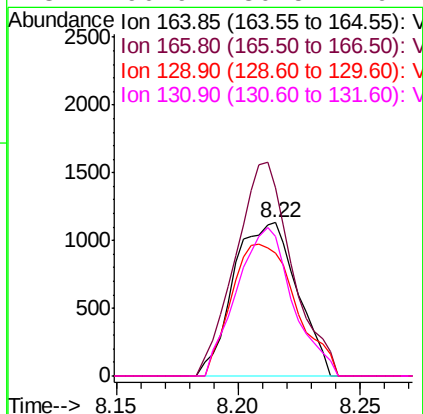
RT: 8.22 min Scan# 2216

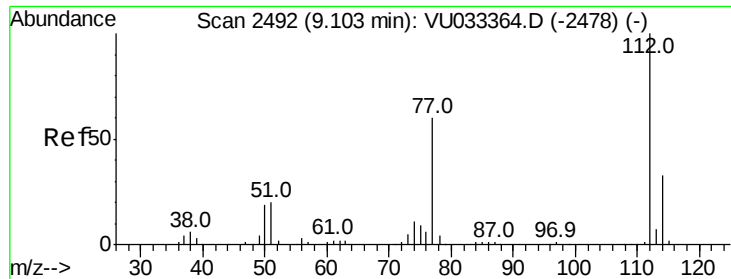
Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion:	164	Resp:	2044
Ion	Ratio	Lower	Upper
164	100		
166	123.3	103.8	155.6
129	80.5	79.7	119.5
131	90.9	80.5	120.7





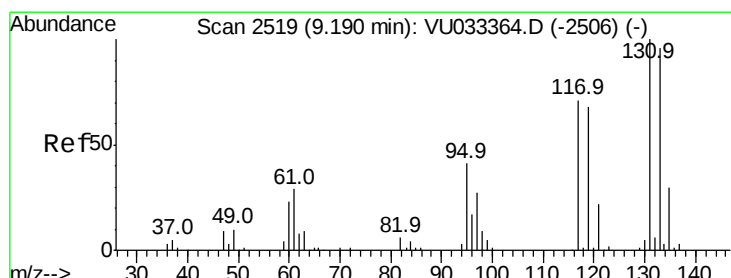
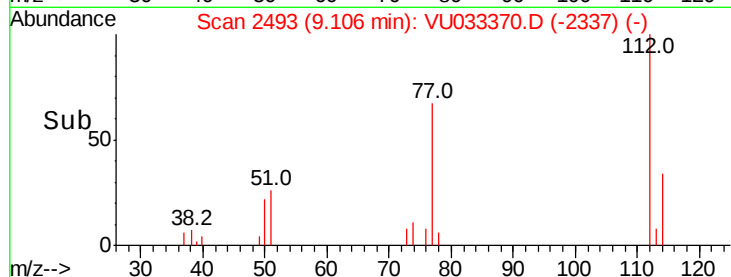
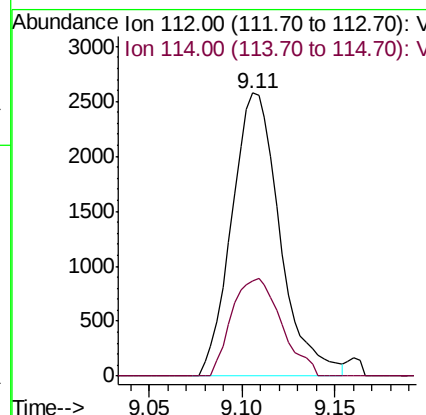
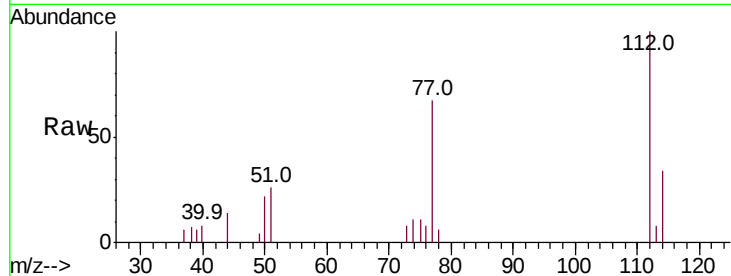
#59
Chlorobenzene
Concen: 0.213 ug/l
RT: 9.11 min Scan# 2493
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:112 Resp: 4652
Ion Ratio Lower Upper
112 100
114 33.9 26.4 39.6

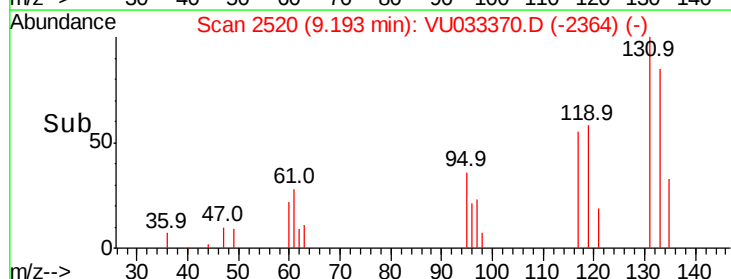
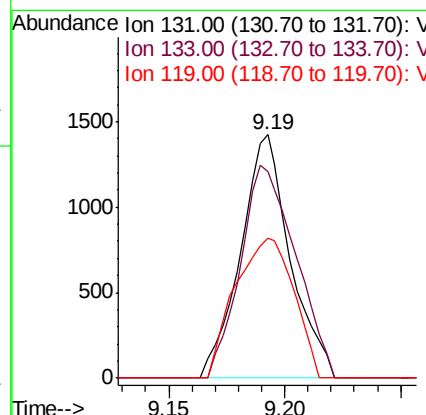
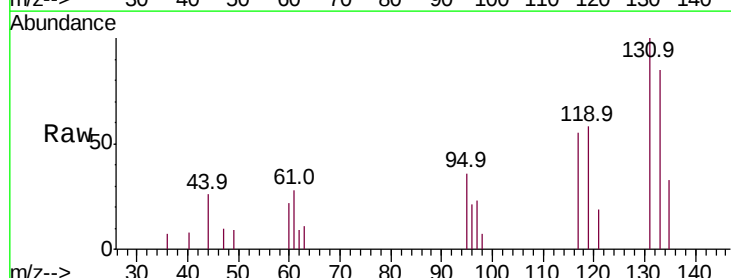
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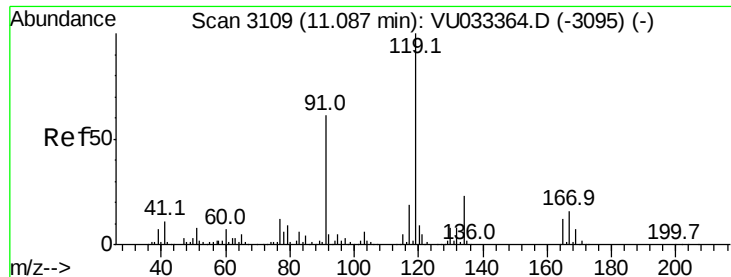
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.255 ug/l
RT: 9.19 min Scan# 2520
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion:131 Resp: 2117
Ion Ratio Lower Upper
131 100
133 97.1 76.2 114.4
119 68.3 54.9 82.3





#61

Pentachloroethane

Concen: 0.240 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:117 Resp: 1639

Ion Ratio Lower Upper

117 100

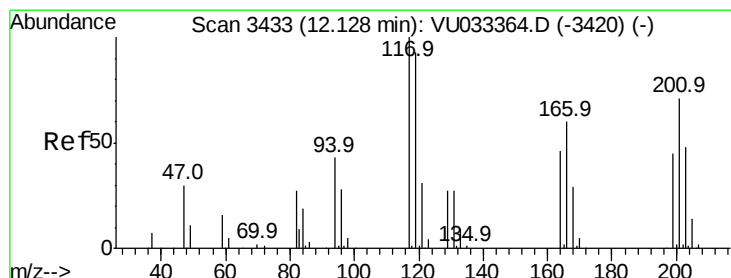
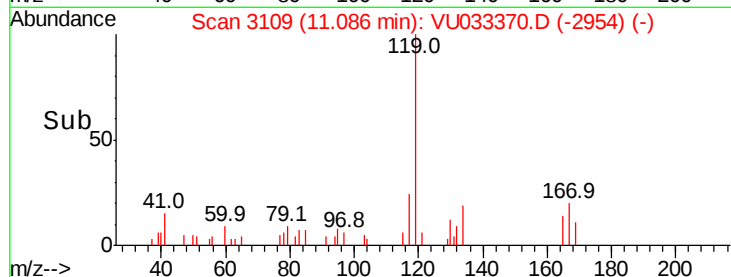
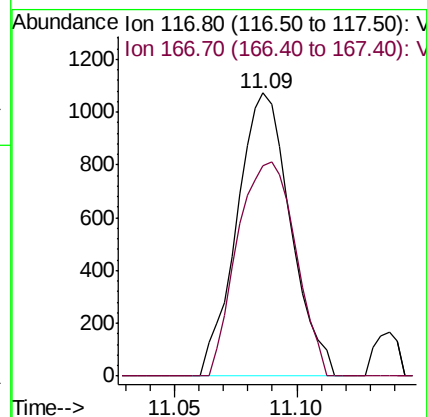
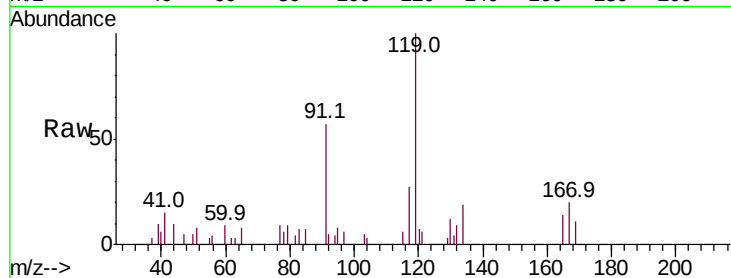
167 81.9 63.4 95.0

Manual Integrations

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#62

Hexachloroethane

Concen: 0.249 ug/l

RT: 12.13 min Scan# 3435

Delta R.T. 0.01 min

Lab File: VU033370.D

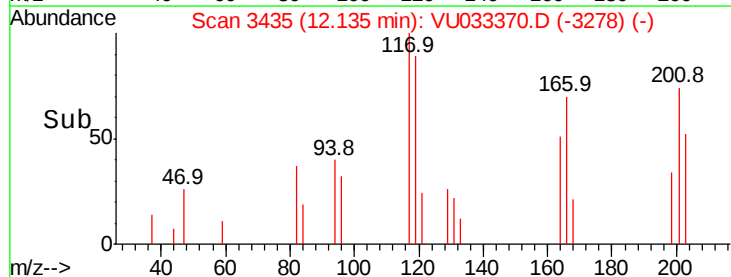
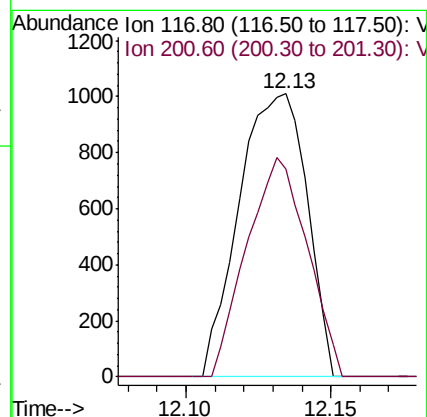
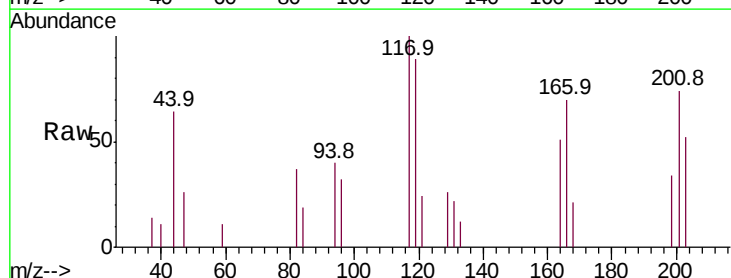
Acq: 23 Jul 2019 10:06

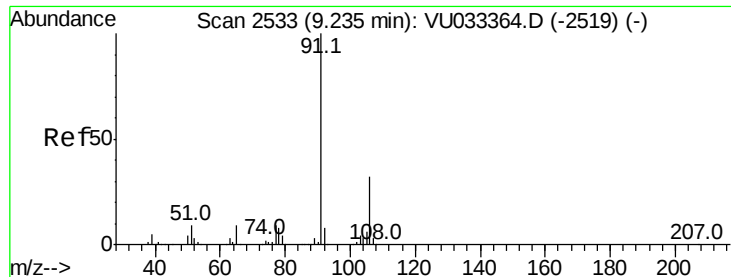
Tgt Ion:117 Resp: 1644

Ion Ratio Lower Upper

117 100

201 69.1 57.9 86.9





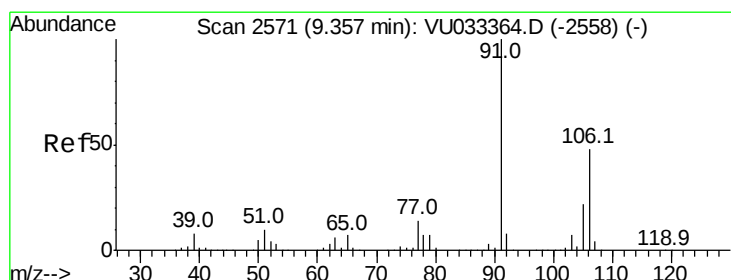
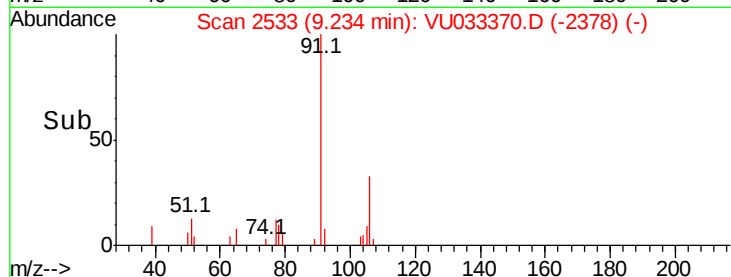
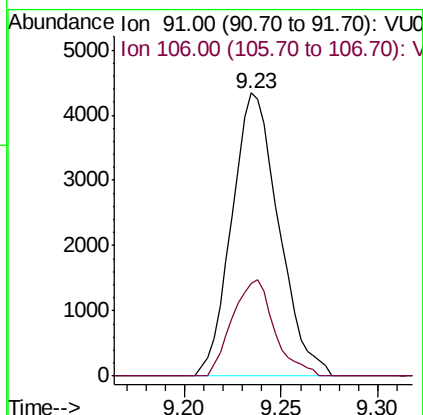
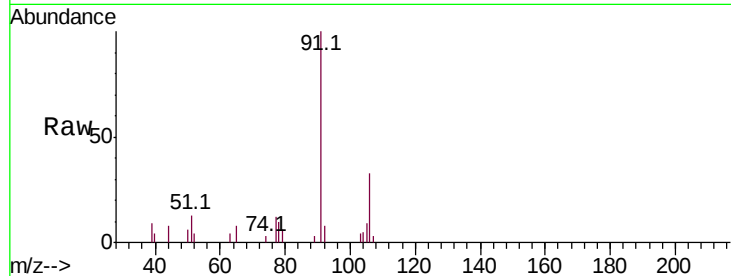
#63
Ethyl Benzene
Concen: 0.209 ug/l
RT: 9.23 min Scan# 2533
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 7332
Ion Ratio Lower Upper
91 100
106 32.9 25.4 38.2

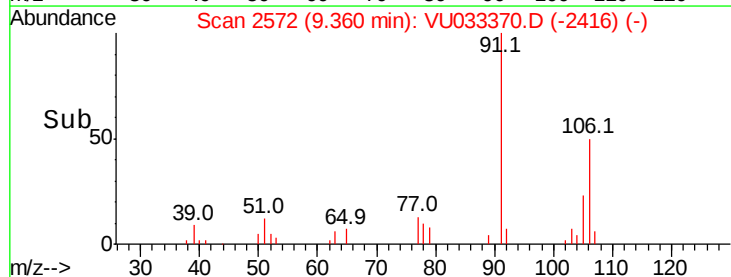
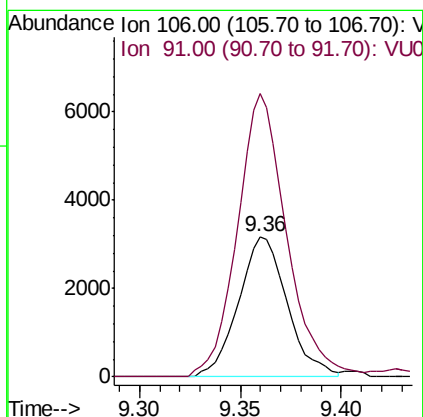
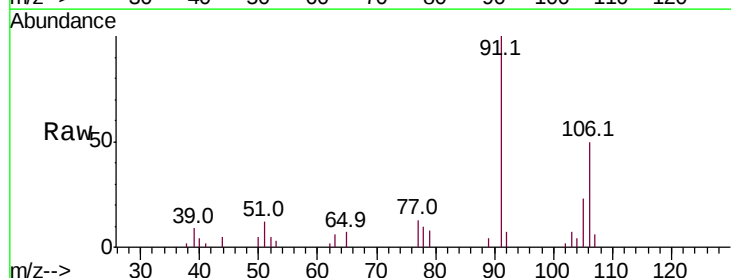
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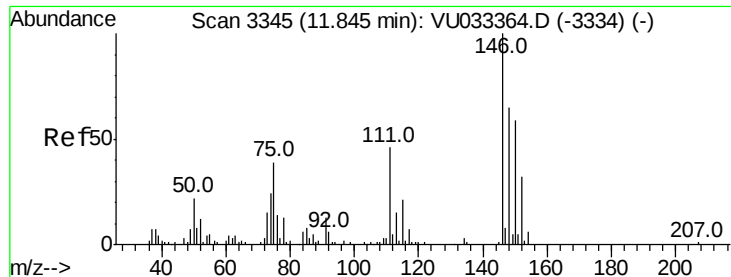
MMDadoda
7/25/2019 11:15:27 AM



#64
m/p-Xylenes
Concen: 0.382 ug/l
RT: 9.36 min Scan# 2572
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 106 Resp: 5369
Ion Ratio Lower Upper
106 100
91 203.5 167.1 250.7





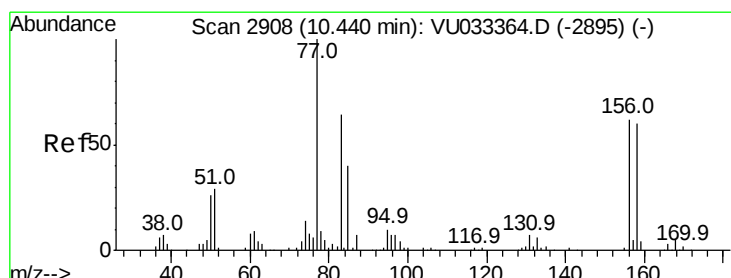
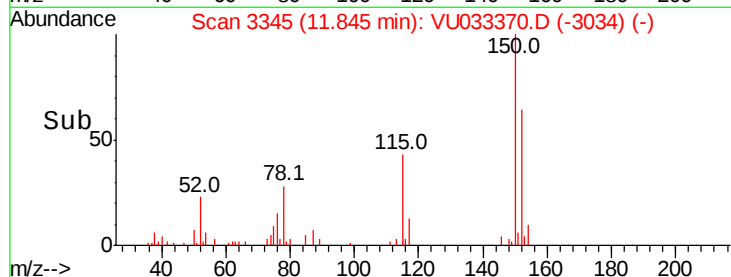
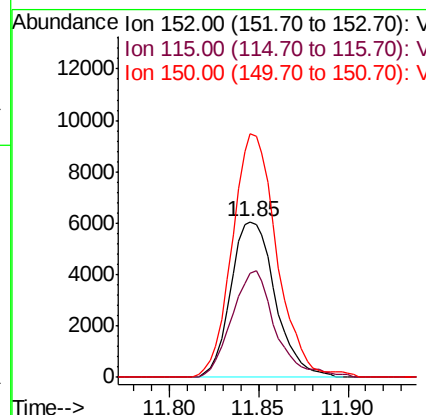
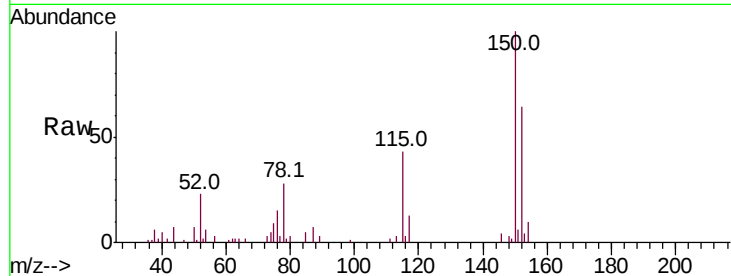
#68
 1,2-Dichlorobenzene-d4
 Concen: 0.929 ug/l
 RT: 11.85 min Scan# 3345
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
152	100		
115	67.2	0.0	123.2
150	157.9	0.0	648.4

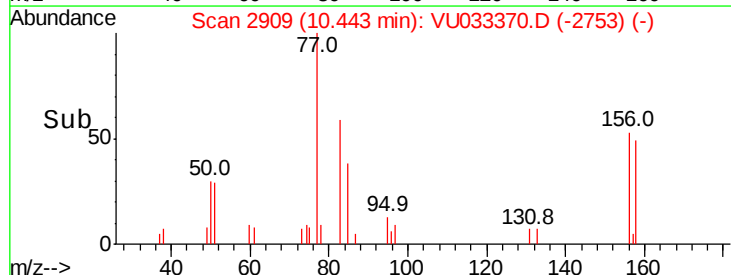
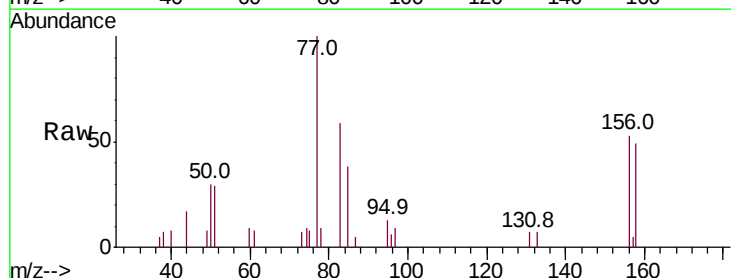
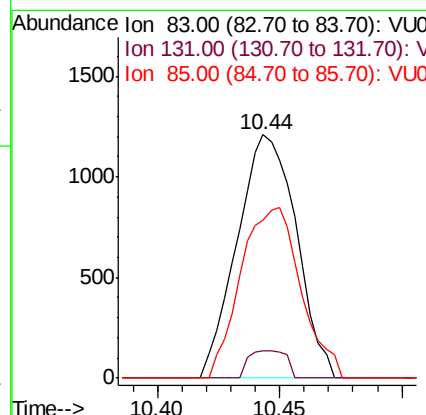
Manual Integrations
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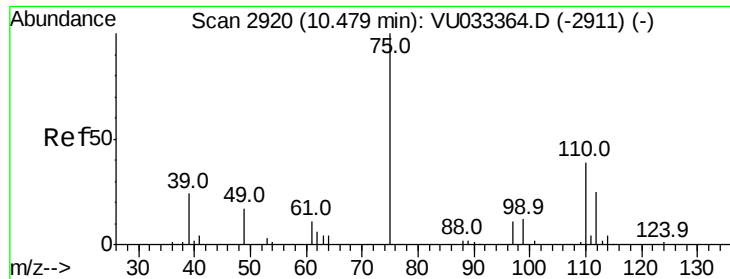
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#70
 1,1,2,2-Tetrachloroethane
 Concen: 0.225 ug/l
 RT: 10.44 min Scan# 2909
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
83	100		
131	7.1	8.0	12.0#
85	71.4	51.8	77.8





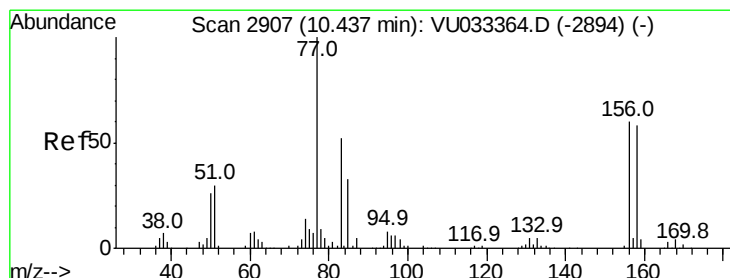
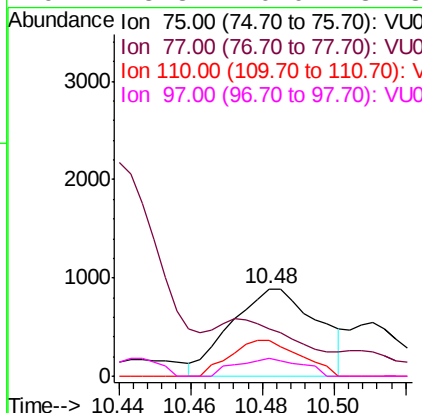
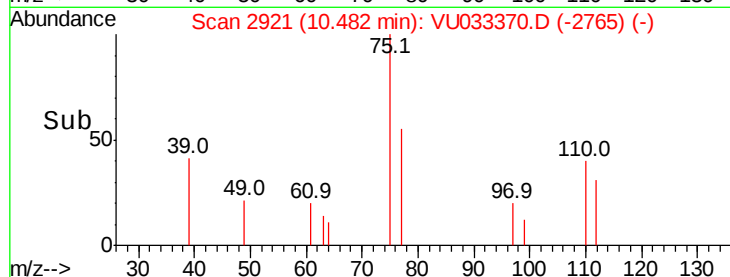
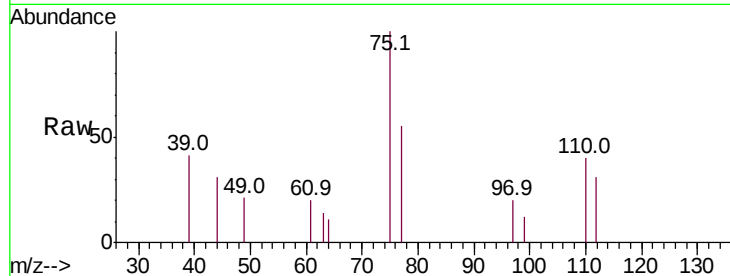
#71
1,2,3-Trichloropropane
Concen: 0.214 ug/l m
RT: 10.48 min Scan# 2921
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	0.0	18.2#
110	33.1	0.0	71.4
97	15.3	0.0	37.8

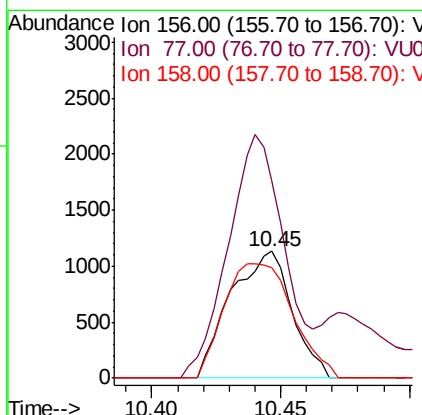
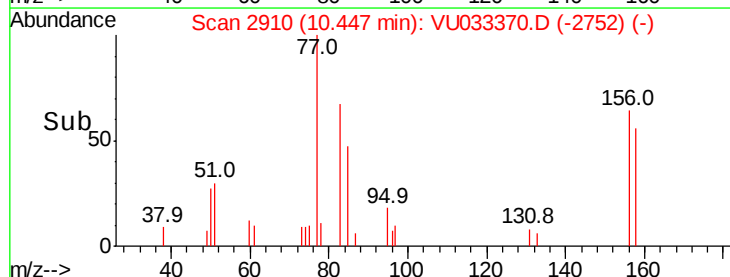
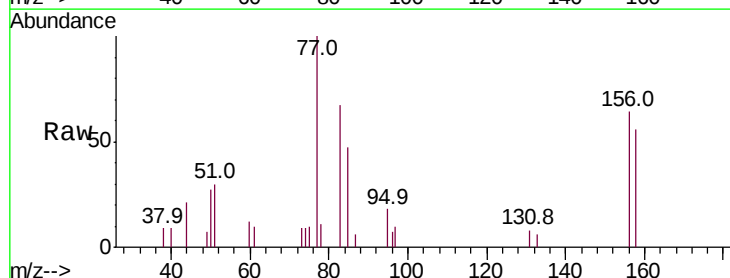
Manual Integrations
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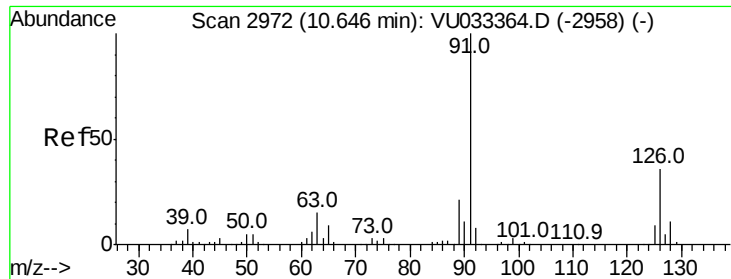
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#72
Bromobenzene
Concen: 0.205 ug/l
RT: 10.45 min Scan# 2910
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion	Ratio	Lower	Upper
156	100		
77	175.7	0.0	324.4
158	101.3	0.0	192.4





#74

2-Chlorotoluene

Concen: 0.201 ug/l

RT: 10.65 min Scan# 2973

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:126 Resp: 1807

Ion Ratio Lower Upper

126 100

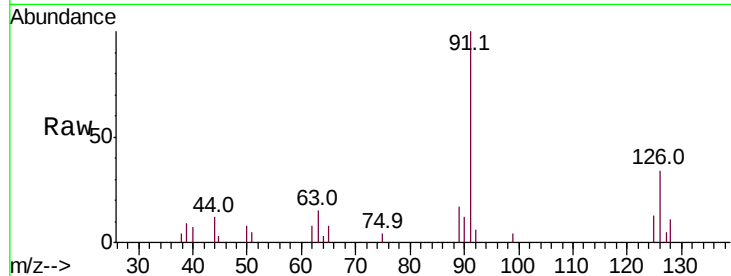
91 322.1 0.0 598.0

Manual Integrations

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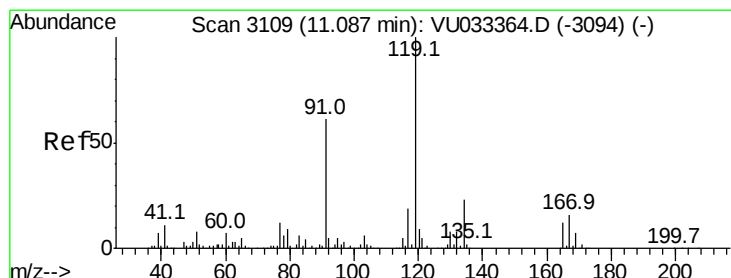
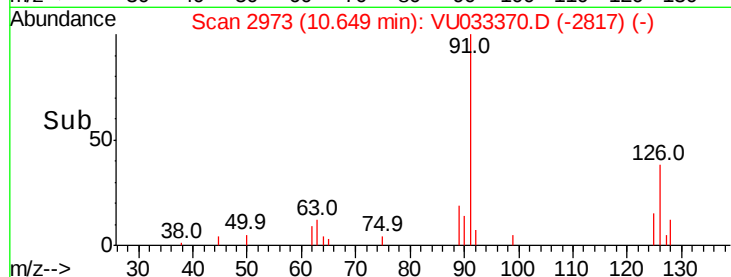
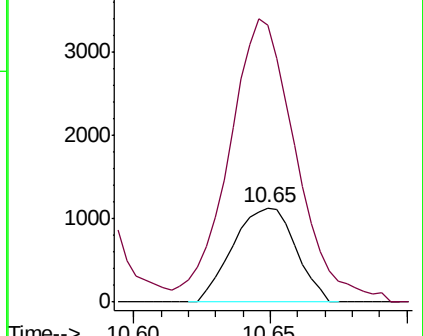
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Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#77

tert-Butylbenzene

Concen: 0.206 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

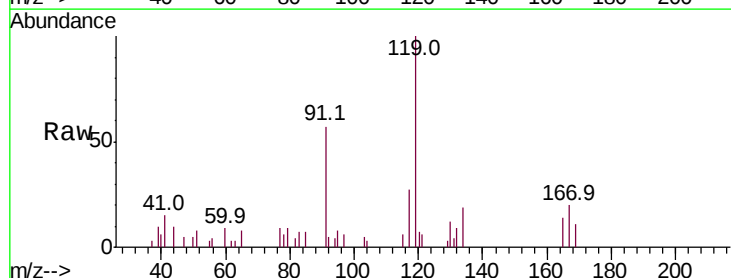
Tgt Ion:119 Resp: 6038

Ion Ratio Lower Upper

119 100

91 57.4 30.4 91.3

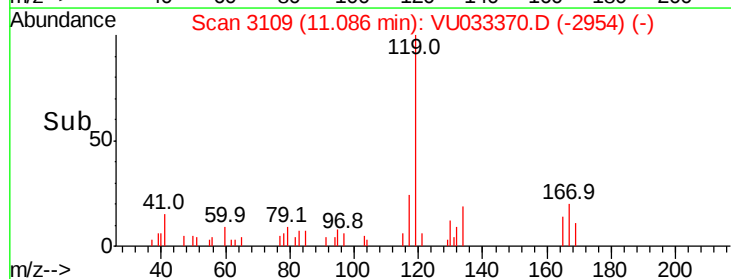
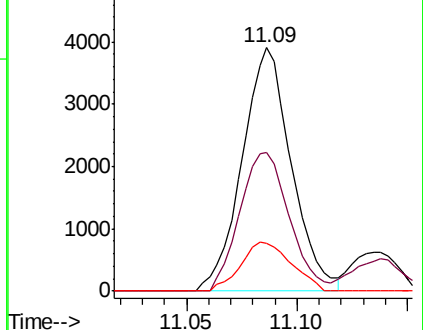
134 20.6 18.5 27.7

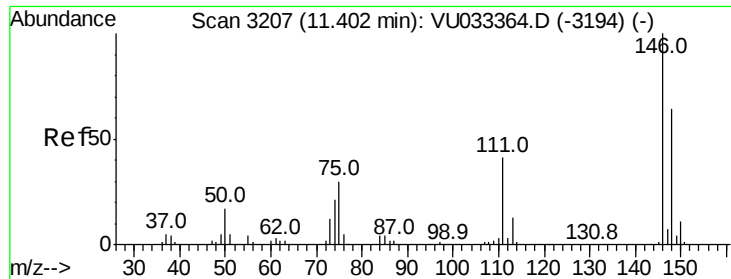


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V





#82

1,3-Dichlorobenzene

Concen: 0.212 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

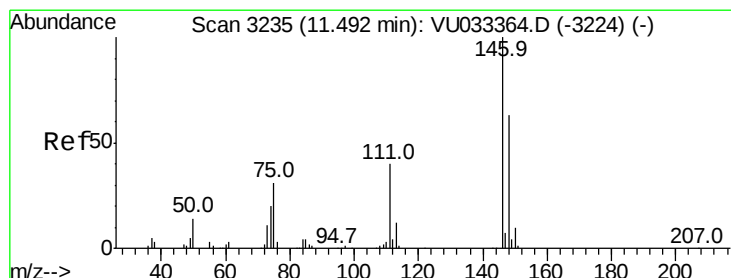
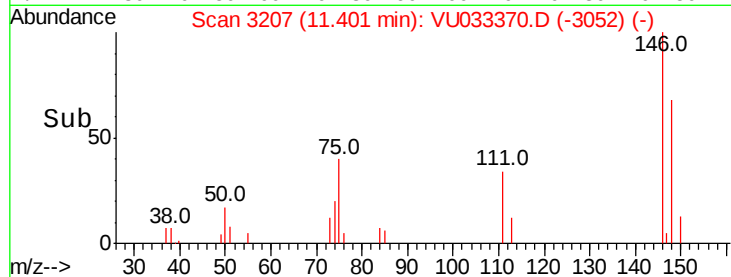
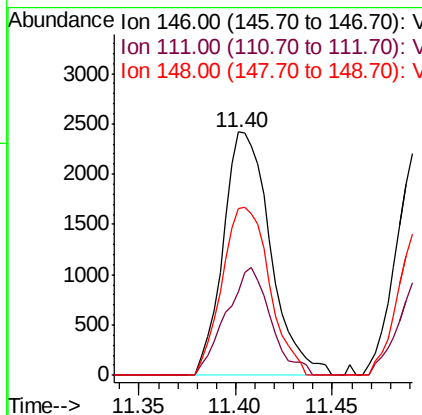
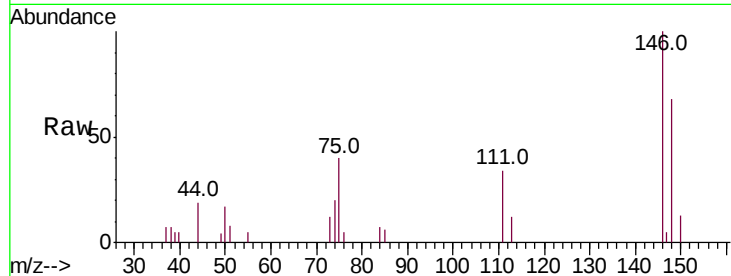
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	146	Resp:	4104
Ion Ratio	Lower	Upper	
146	100		
111	41.9	33.3	49.9
148	69.2	50.8	76.2

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#83

1,4-Dichlorobenzene

Concen: 0.220 ug/l

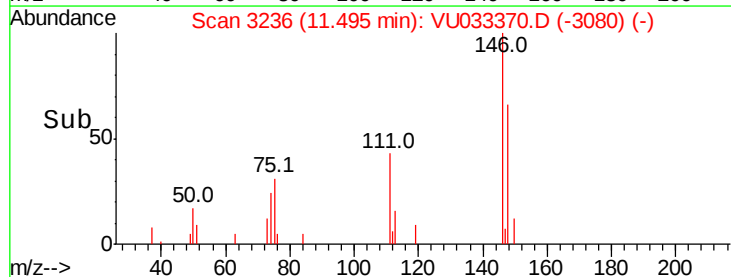
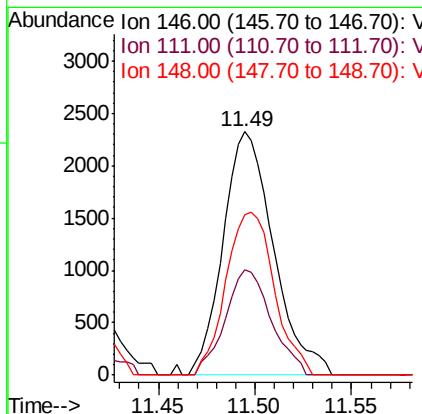
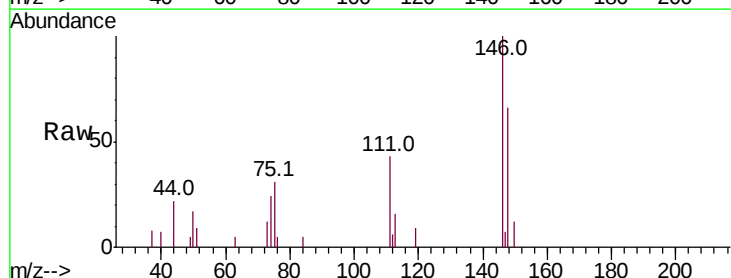
RT: 11.49 min Scan# 3236

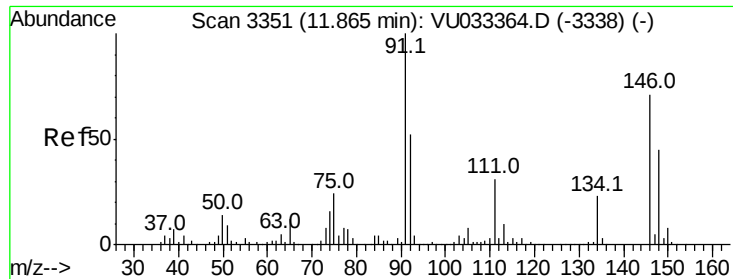
Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion:	146	Resp:	4218
Ion Ratio	Lower	Upper	
146	100		
111	39.4	32.2	48.4
148	64.2	51.0	76.4





#85

1,2-Dichlorobenzene

Concen: 0.223 ug/l

RT: 11.86 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

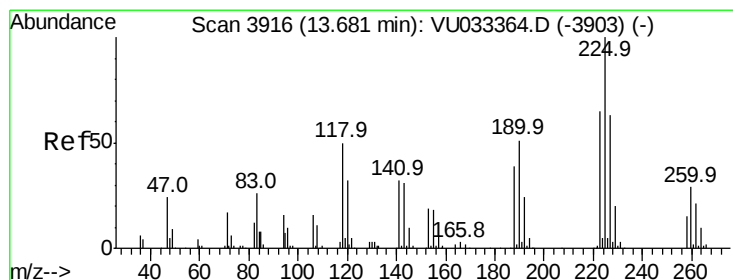
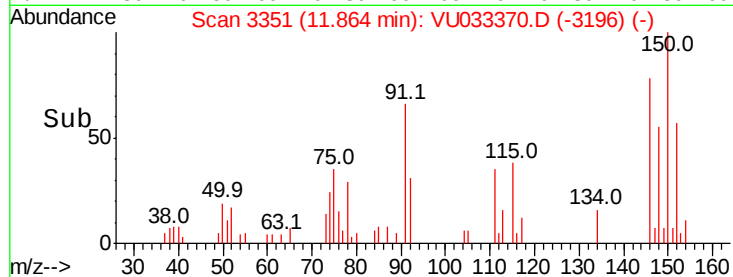
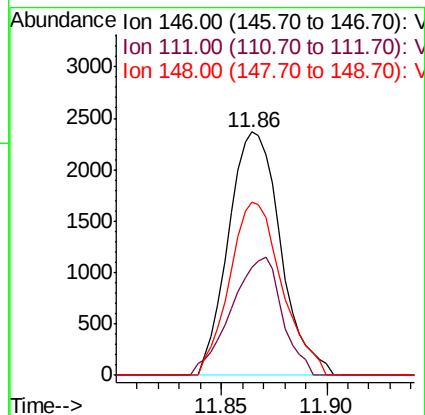
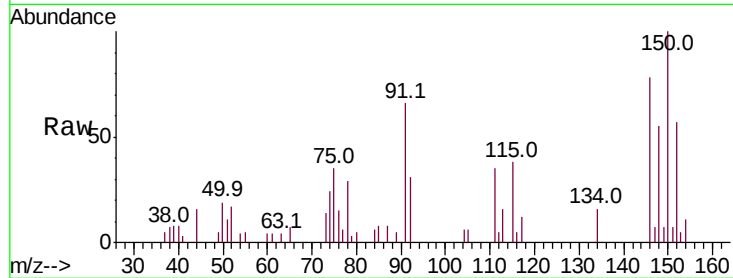
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	146	Resp:	4057
Ion Ratio	Lower	Upper	
146	100		
111	47.3	21.7	65.1
148	71.5	32.0	96.0

Manual Integrations
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#88

Hexachlorobutadiene

Concen: 0.240 ug/l

RT: 13.68 min Scan# 3916

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion:	225	Resp:	1602
Ion Ratio	Lower	Upper	
225	100		
223	65.9	52.2	78.4
227	60.3	51.7	77.5

