

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101118\
 Data File : VU027601.D
 Acq On : 11 Oct 2018 16:07
 Operator : MD/SY
 Sample : J5164-09 0.5ppb
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/16/2018 2:22:44 PM

Quant Time: Oct 12 17:28:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 10:41:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	111734	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	193250	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	171110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72453	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	88234	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
35) Dibromofluoromethane	4.89	113	62889	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
50) Toluene-d8	7.57	98	228153	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
62) 4-Bromofluorobenzene	10.31	95	74809	42.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	683	0.56	ug/l	90
5) Bromomethane	1.63	94	585	0.60	ug/l	83
6) Chloroethane	1.70	64	721m	Below Cal		
8) Diethyl Ether	2.11	74	545	0.60	ug/l	90
12) 1,1-Dichloroethene	2.28	96	744	0.65	ug/l	# 81
18) Methyl Acetate	2.62	43	1473	0.56	ug/l	# 88
24) 1,1-Dichloroethane	3.46	63	1360m	0.48	ug/l	
25) 2-Butanone	4.29	43	3902	2.61	ug/l	92
26) 2,2-Dichloropropane	4.23	77	1057	0.47	ug/l	# 73
28) Bromochloromethane	4.55	49	646	0.46	ug/l	# 52
29) Tetrahydrofuran	4.65	42	2351	2.51	ug/l	# 87
31) Cyclohexane	4.98	56	4098	0.28	ug/l	# 16
32) 1,1,1-Trichloroethane	4.92	97	1201	0.57	ug/l	# 37
36) 1,1-Dichloropropene	5.15	75	1110	0.57	ug/l	# 76
37) Ethyl Acetate	4.41	43	1645m	0.56	ug/l	
38) Carbon Tetrachloride	5.14	117	850	0.47	ug/l	90
41) Methacrylonitrile	4.57	41	539	0.94	ug/l	# 60
42) 1,2-Dichloroethane	5.41	62	1079m	0.49	ug/l	
43) Isopropyl Acetate	5.56	43	1820	0.45	ug/l	# 76
45) 1,2-Dichloropropane	6.44	63	728	0.43	ug/l	92
46) Dibromomethane	6.56	93	482	0.48	ug/l	# 87
47) Bromodichloromethane	6.76	83	966	0.48	ug/l	# 95
48) Methyl methacrylate	6.63	41	821	1.85	ug/l	89
49) 1,4-Dioxane	6.62	88	66	1.69	ug/l	# 17
53) t-1,3-Dichloropropene	7.89	75	1009	0.44	ug/l	# 77
55) 1,1,2-Trichloroethane	8.08	97	607	0.43	ug/l	# 86
56) Ethyl methacrylate	8.03	69	882	2.50	ug/l	# 87
57) 1,3-Dichloropropane	8.25	76	1326	0.50	ug/l	# 83
60) Dibromochloromethane	8.48	129	655	0.47	ug/l	91
61) 1,2-Dibromoethane	8.59	107	603	0.41	ug/l	82
64) Tetrachloroethene	8.23	164	545	0.51	ug/l	87
71) Bromoform	9.96	173	379	0.38	ug/l	# 81
74) N-amyl acetate	10.02	43	1228	0.43	ug/l	# 75
76) 1,2,3-Trichloropropane	10.50	75	1077m	0.52	ug/l	

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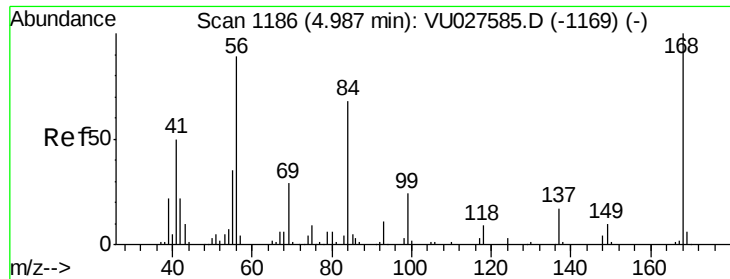
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Quant Time: Oct 12 17:28:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U101118W.M
 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) 1,3,5-Trimethylbenzene	10.77	105	2031	0.26	ug/l	92
85) sec-Butylbenzene	11.33	105	2116	0.69	ug/l	94
90) Hexachloroethane	12.15	117	421	0.52	ug/l	71
92) 1,2-Dibromo-3-Chloropropan	12.66	75	139m	0.30	ug/l	
93) 1,2,4-Trichlorobenzene	13.51	180	539	1.98	ug/l #	79
94) Hexachlorobutadiene	13.70	225	374	0.52	ug/l	86
95) Naphthalene	13.75	128	1389	1.52	ug/l #	71
96) 1,2,3-Trichlorobenzene	13.99	180	571	0.39	ug/l	84

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:168 Resp: 111734

Ion Ratio Lower Upper

168 100

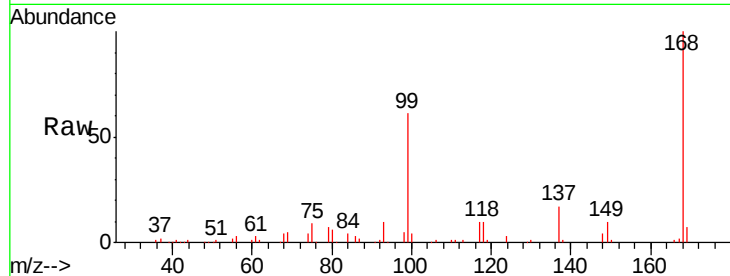
99 60.3 50.8 76.2

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Abundance Ion 167.90 (167.60 to 168.60): VU027585.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027585.D (-1169) (-)

4.99

50000

40000

30000

20000

10000

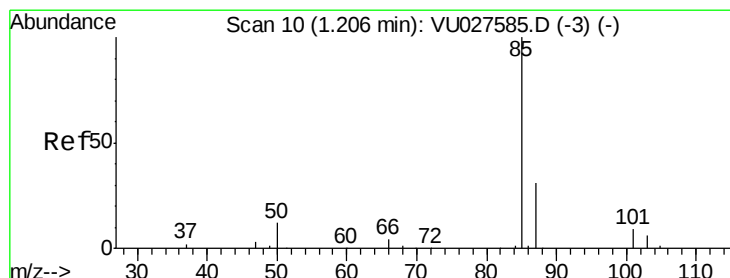
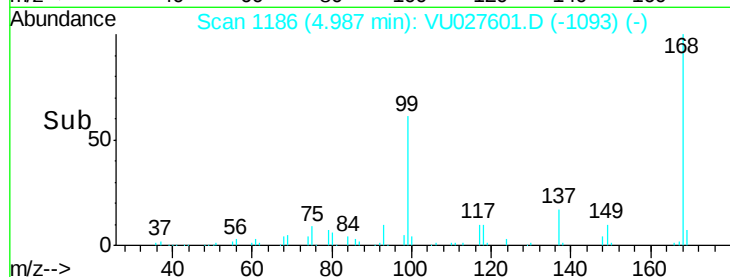
0

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 0.56 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027601.D

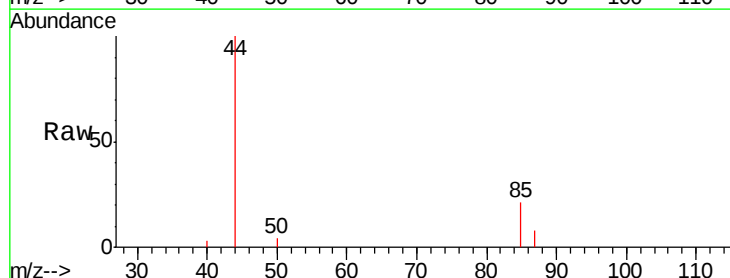
Acq: 11 Oct 2018 16:07

Tgt Ion: 85 Resp: 683

Ion Ratio Lower Upper

85 100

87 37.0 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VU027585.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU027585.D (-3) (-)

1.21

600

400

200

0

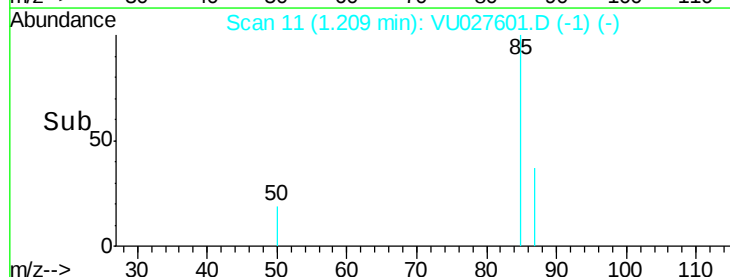
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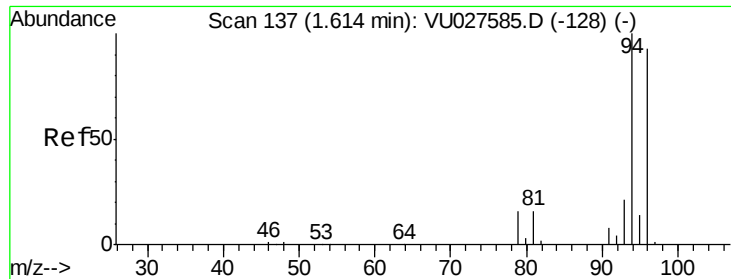
1.20

1.22

1.24

Time-->





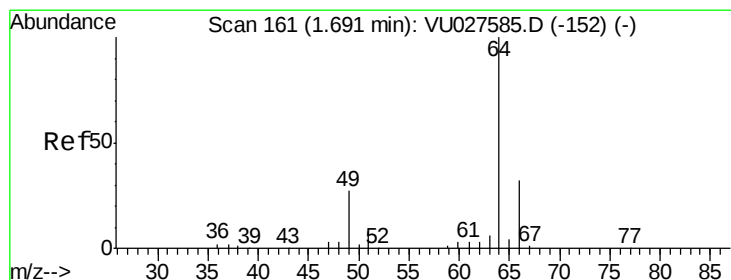
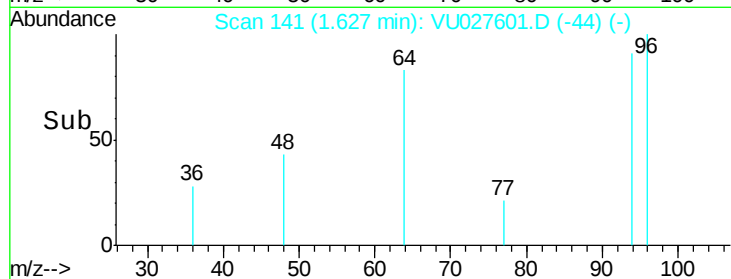
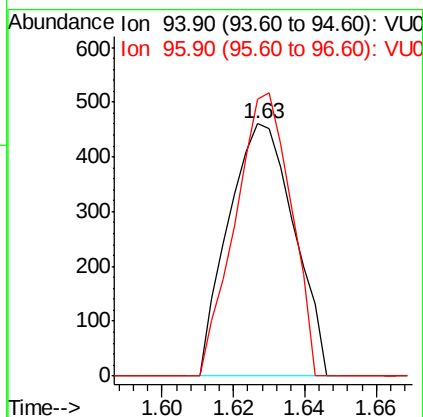
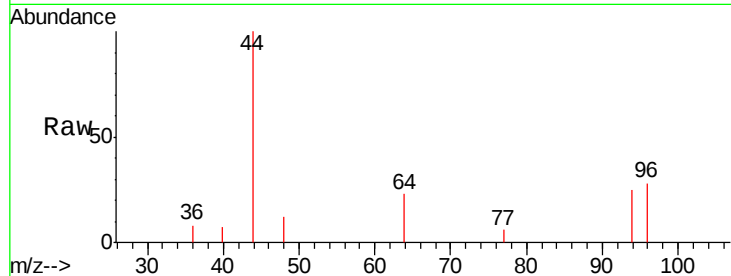
#5
Bromomethane
Concen: 0.60 ug/l
RT: 1.63 min Scan# 141
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 94 Resp: 585
Ion Ratio Lower Upper
94 100
96 109.8 74.6 111.8

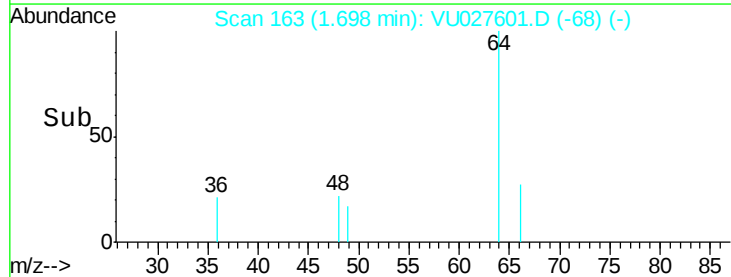
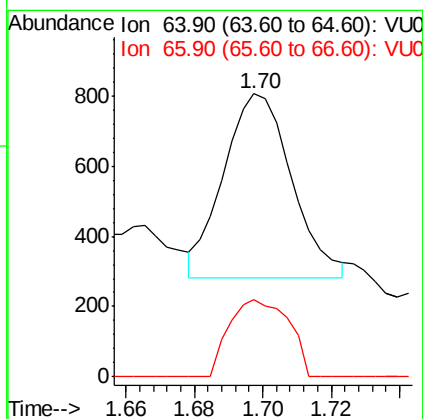
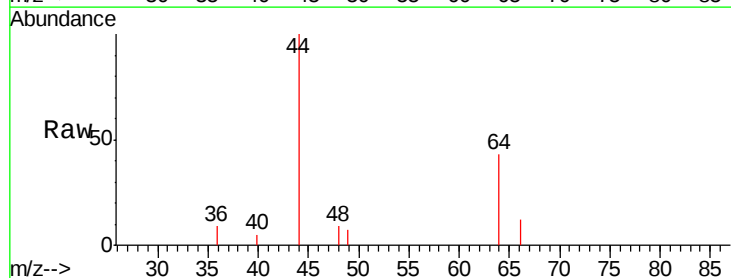
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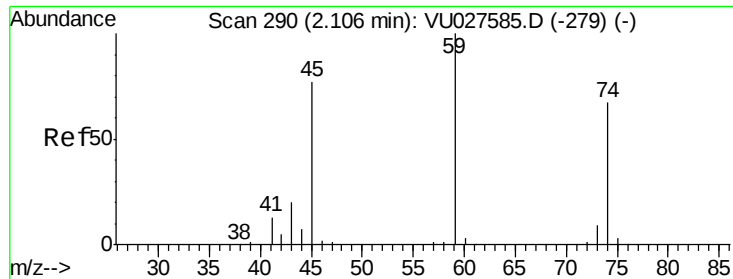
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#6
Chloroethane
Concen: Below Cal m
RT: 1.70 min Scan# 163
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion: 64 Resp: 721
Ion Ratio Lower Upper
64 100
66 27.3 24.6 36.8





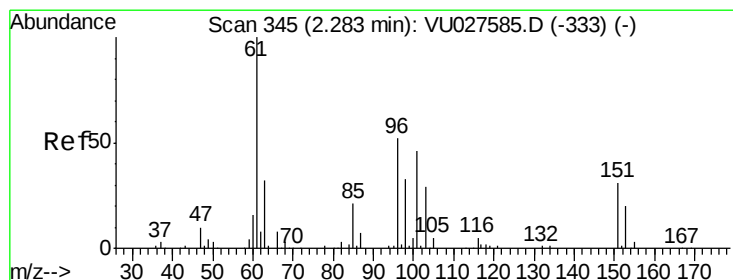
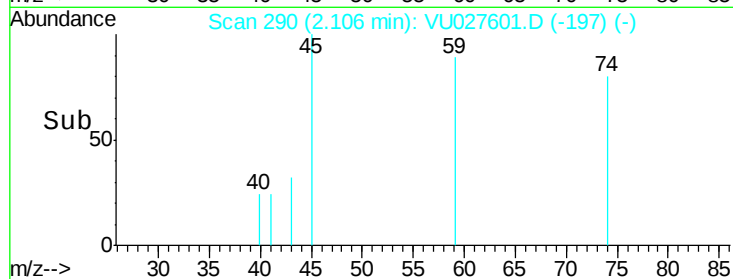
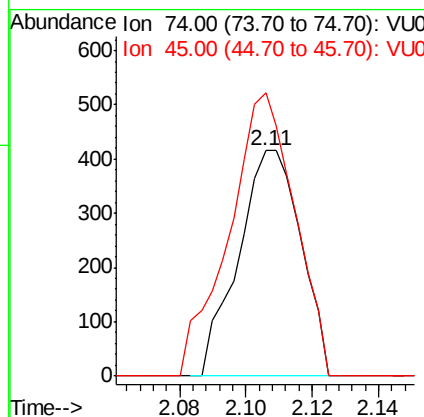
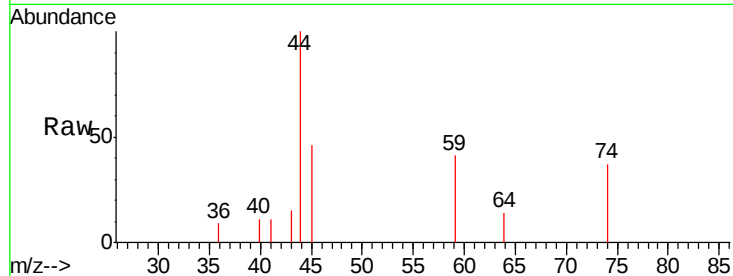
#8
Diethyl Ether
Concen: 0.60 ug/l
RT: 2.11 min Scan# 290
Delta R.T. -0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 74 Resp: 545
Ion Ratio Lower Upper
74 100
45 132.1 60.4 181.1

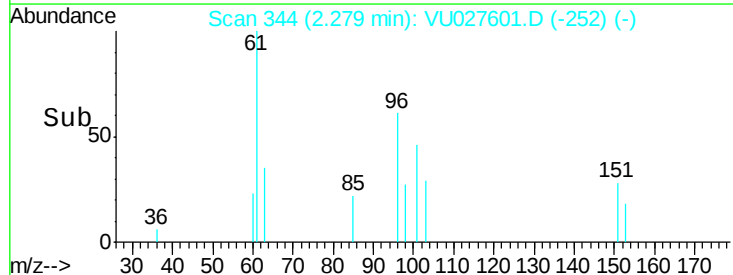
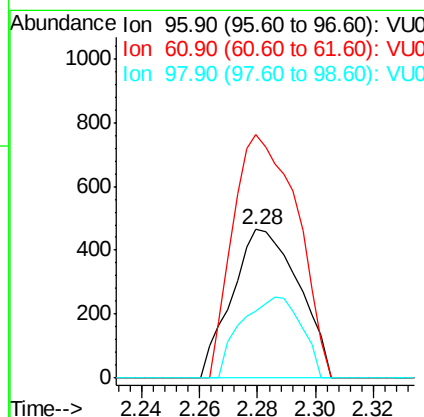
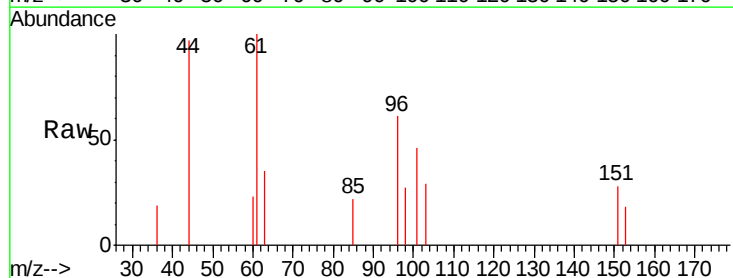
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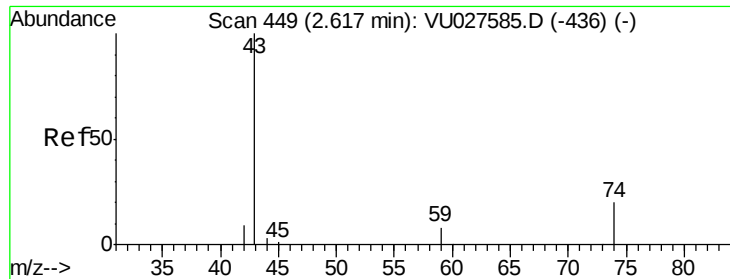
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#12
1,1-Dichloroethene
Concen: 0.65 ug/l
RT: 2.28 min Scan# 344
Delta R.T. -0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion: 96 Resp: 744
Ion Ratio Lower Upper
96 100
61 163.9 153.0 229.6
98 44.7 49.3 73.9#





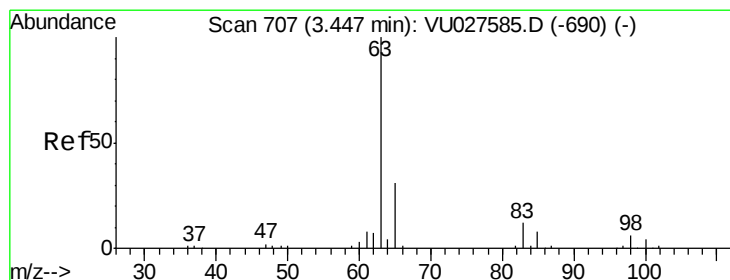
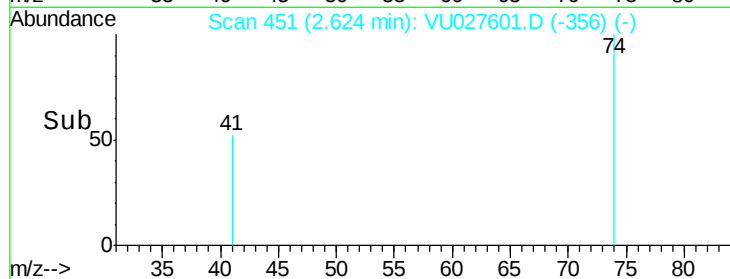
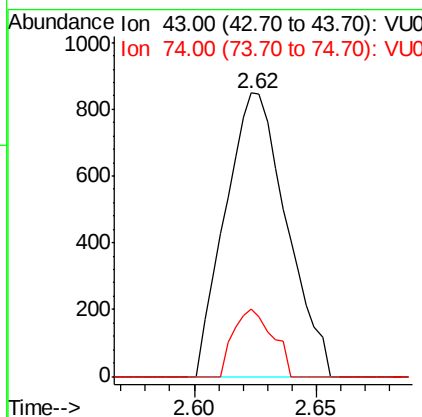
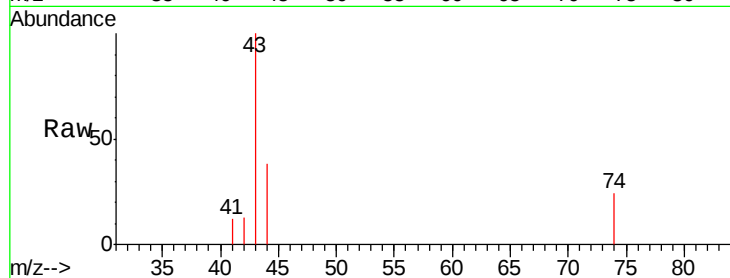
#18
Methyl Acetate
Concen: 0.56 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 1473
Ion Ratio Lower Upper
43 100
74 15.1 16.5 24.7#

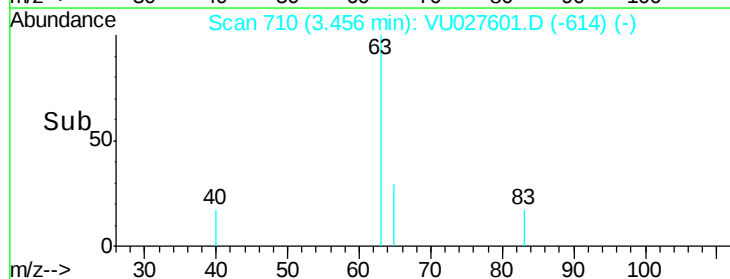
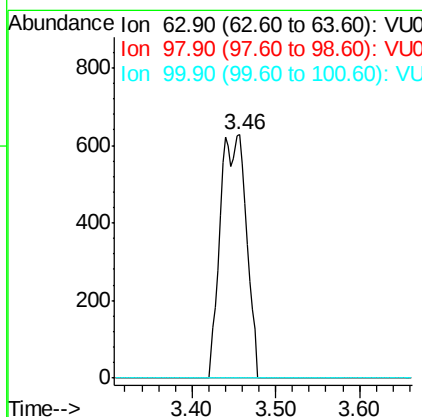
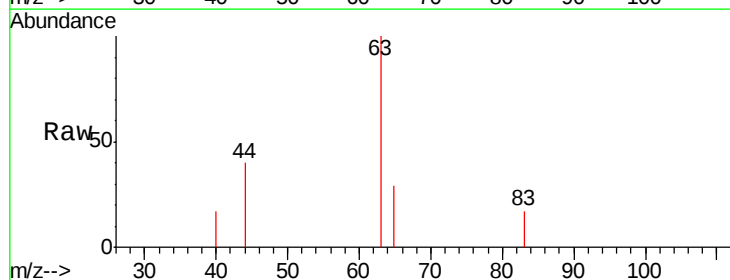
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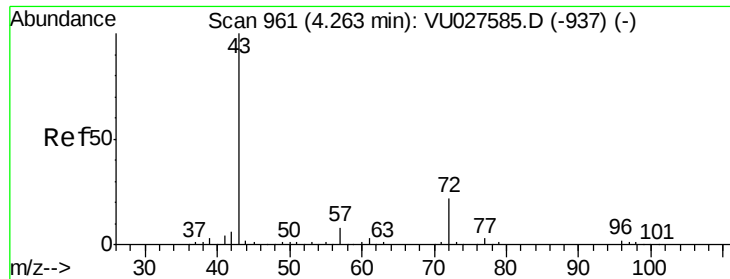
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#24
1,1-Dichloroethane
Concen: 0.48 ug/l m
RT: 3.46 min Scan# 710
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion: 63 Resp: 1360
Ion Ratio Lower Upper
63 100
98 0.0 3.0 9.2#
100 0.0 1.8 5.5#





#25

2-Butanone

Concen: 2.61 ug/l

RT: 4.29 min Scan# 968

Delta R.T. 0.02 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 43 Resp: 3902

Ion Ratio Lower Upper

43 100

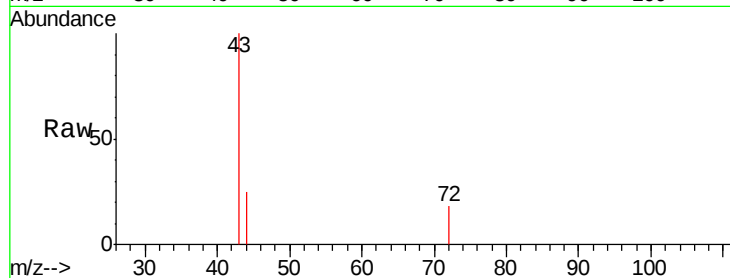
72 18.2 17.8 26.6

Manual Integrations

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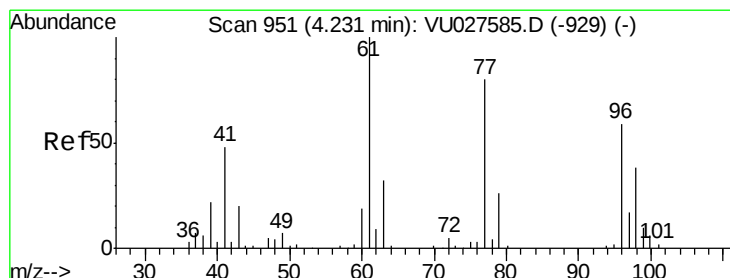
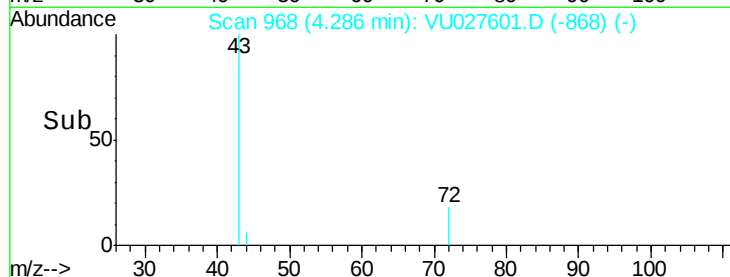
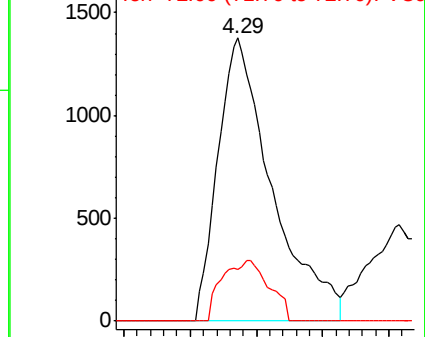
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 0.47 ug/l

RT: 4.23 min Scan# 952

Delta R.T. 0.00 min

Lab File: VU027601.D

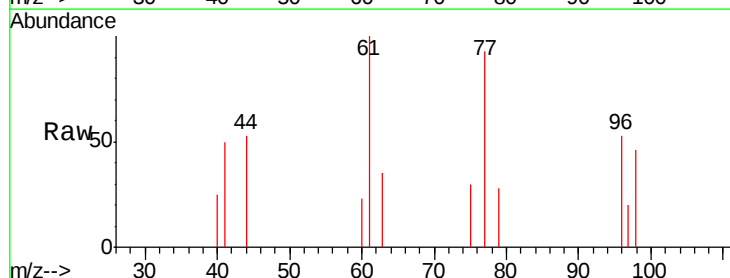
Acq: 11 Oct 2018 16:07

Tgt Ion: 77 Resp: 1057

Ion Ratio Lower Upper

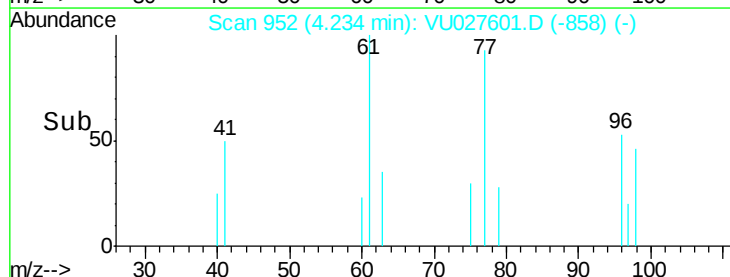
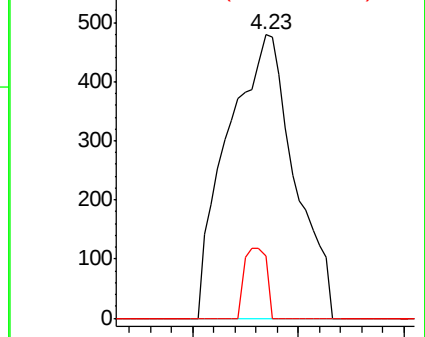
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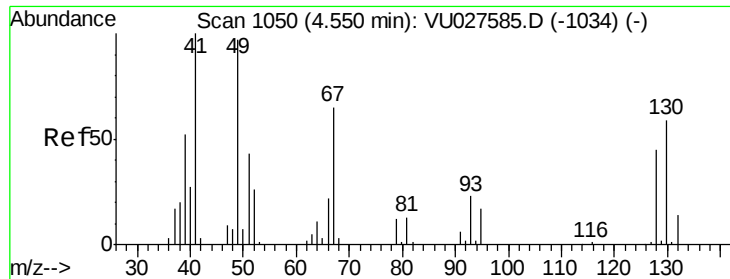
97 8.0 10.4 31.1#



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#28

Bromochloromethane

Concen: 0.46 ug/l

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

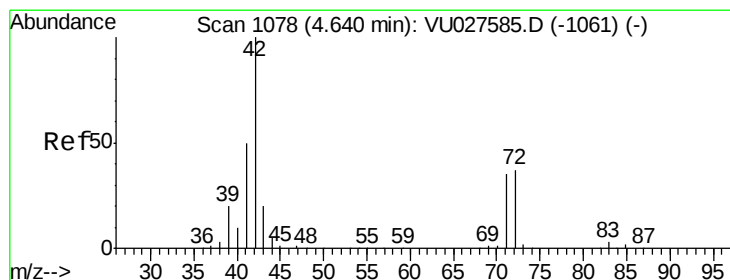
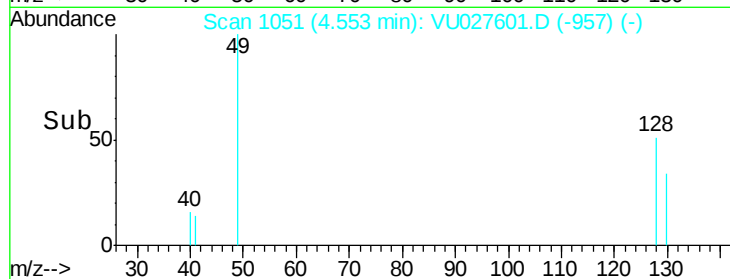
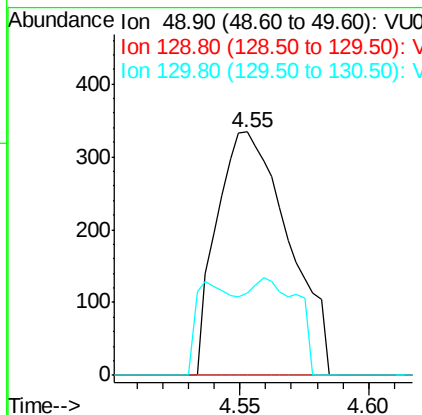
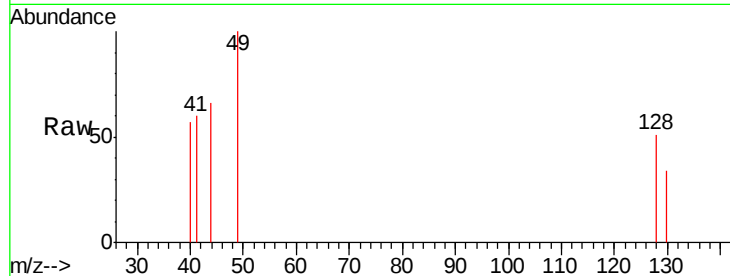
MDL-WATER-03-QT4-2018

Tgt Ion: 49 Resp: 646

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	20.9	46.1	69.1#

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#29

Tetrahydrofuran

Concen: 2.51 ug/l

RT: 4.65 min Scan# 1082

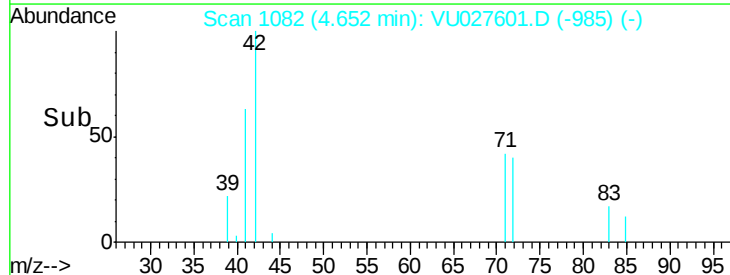
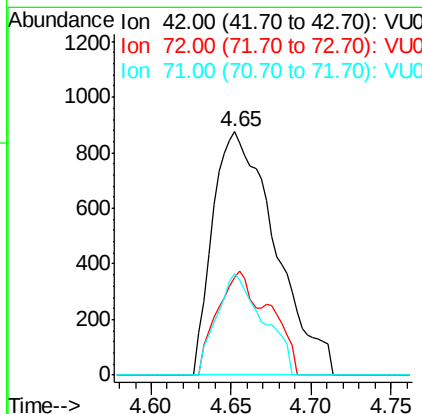
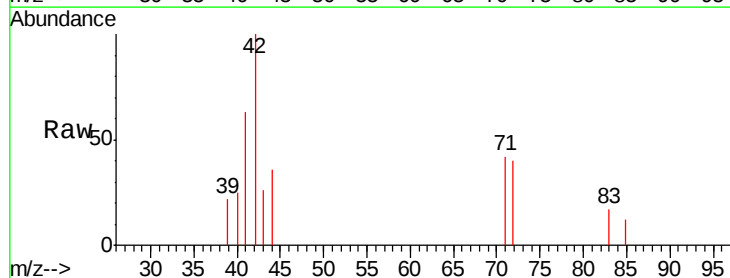
Delta R.T. 0.01 min

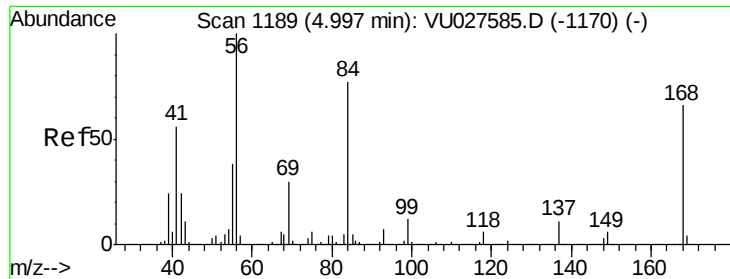
Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion: 42 Resp: 2351

Ion	Ratio	Lower	Upper
42	100		
72	25.8	30.1	45.1#
71	31.0	27.7	41.5





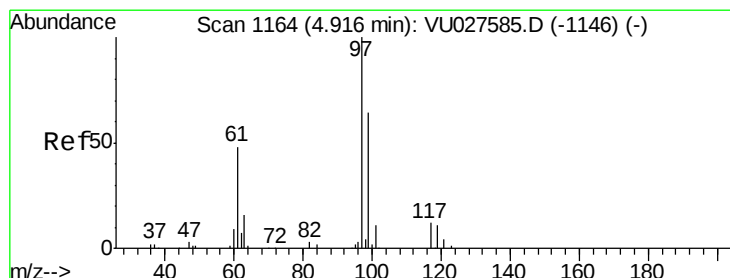
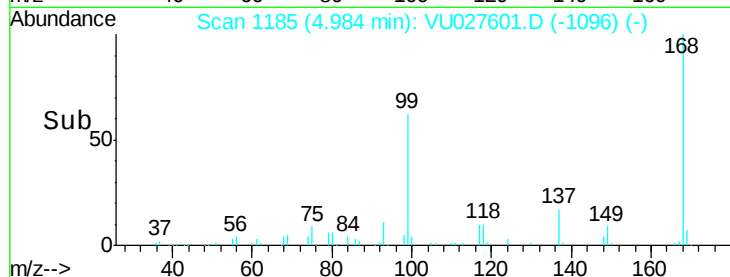
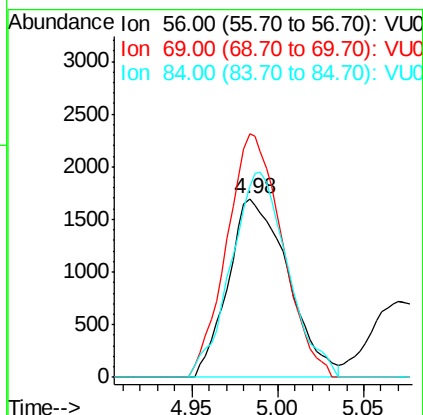
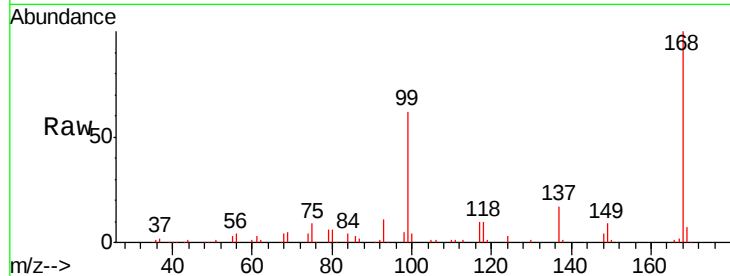
#31
Cyclohexane
Concen: 0.28 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
56	100		
69	136.4	24.1	36.1#
84	106.9	59.1	88.7#

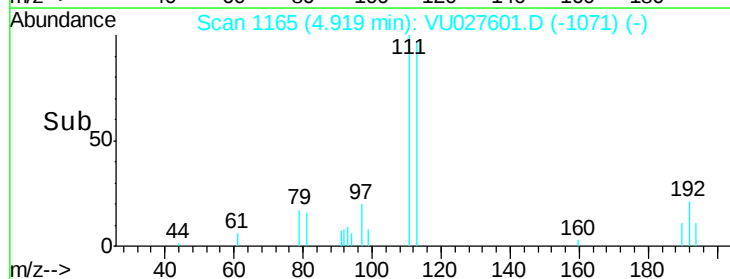
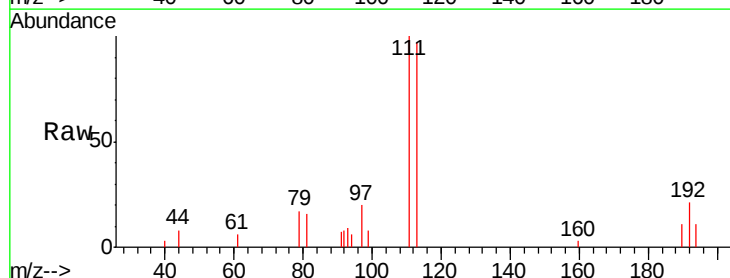
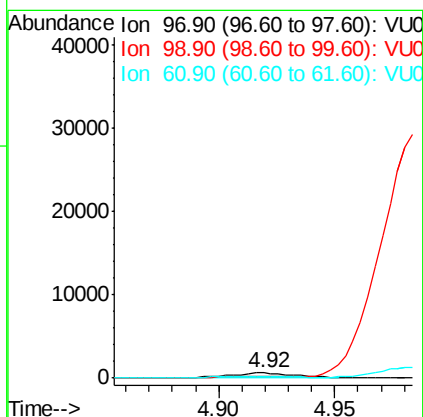
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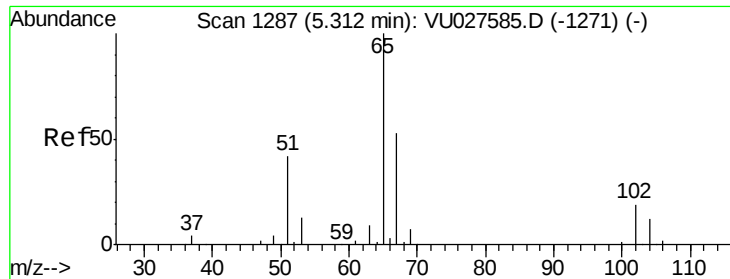
MMDadoda
10/16/2018 2:22:44 PM



#32
1,1,1-Trichloroethane
Concen: 0.57 ug/l
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.1	76.7#
61	23.6	39.6	59.4#





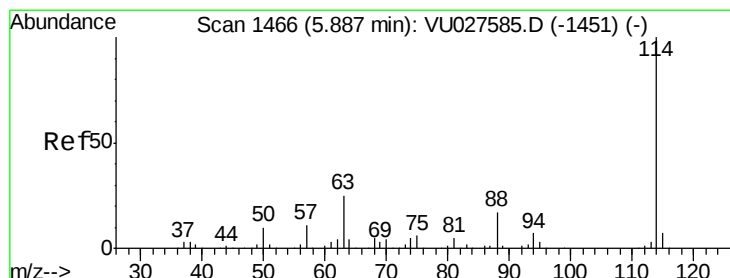
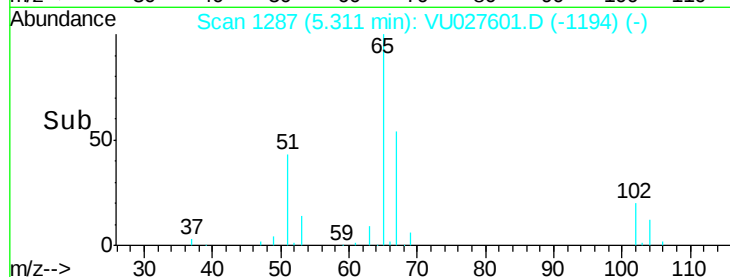
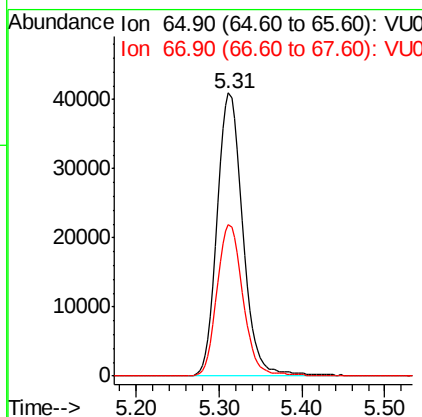
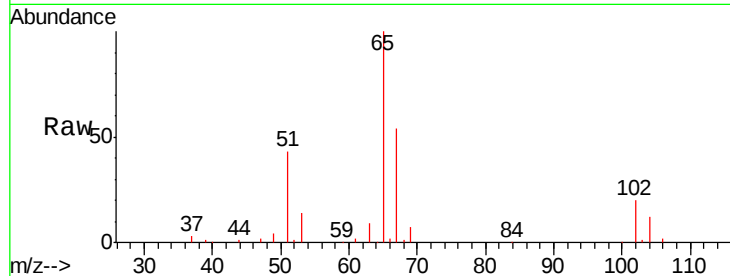
#33
 1,2-Dichloroethane-d4
 Concen: 51.01 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 65 Resp: 88234
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 107.8

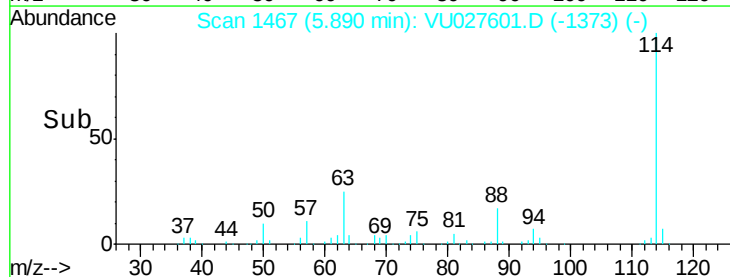
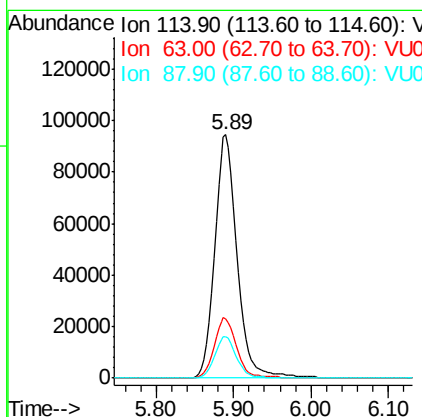
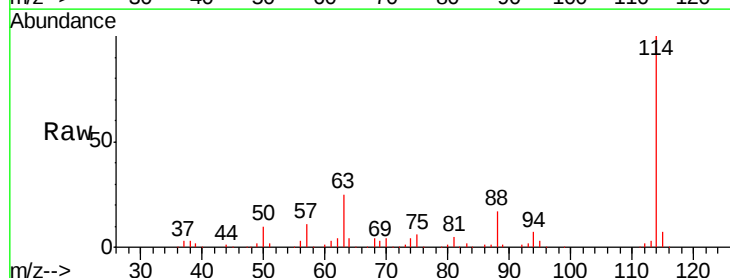
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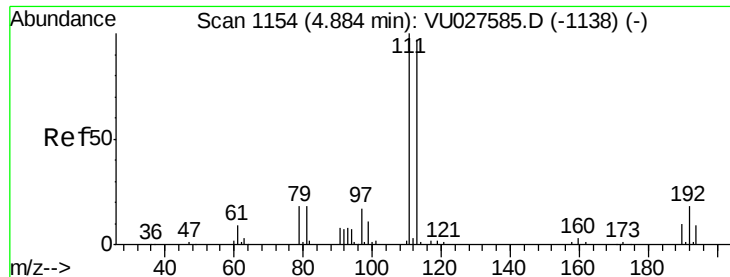
MMDadoda
 10/16/2018 2:22:44 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion: 114 Resp: 193250
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.2
 88 17.2 0.0 33.8





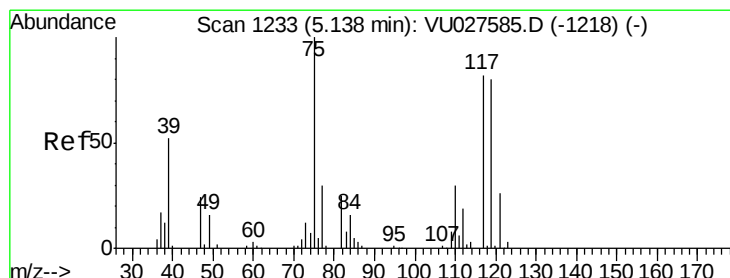
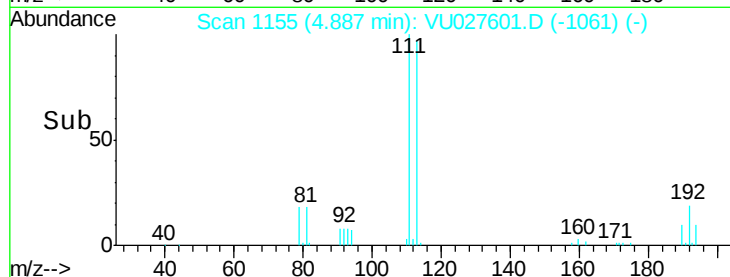
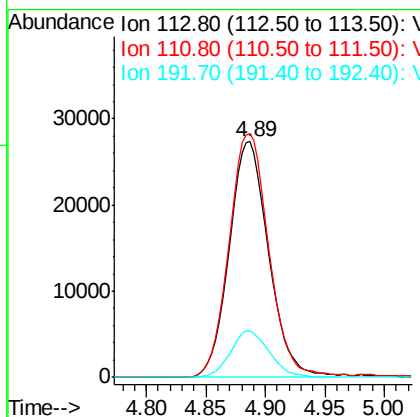
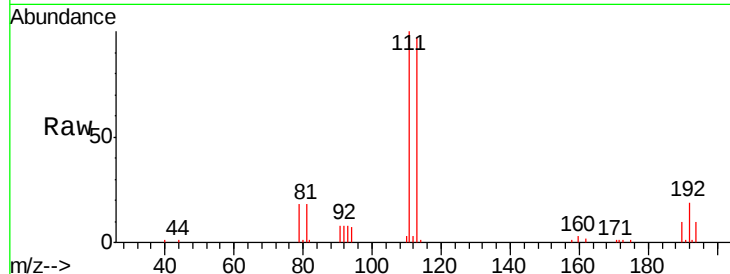
#35
 Dibromofluoromethane
 Concen: 49.19 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	83.1	124.7
192	19.3	15.4	23.0

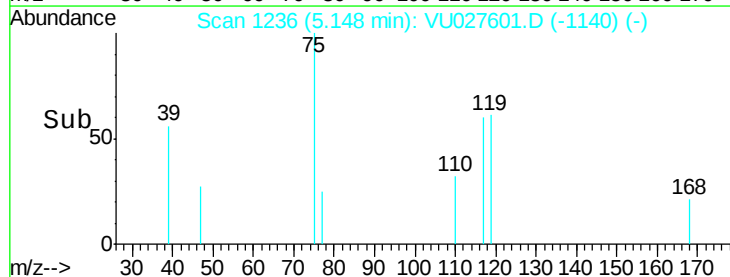
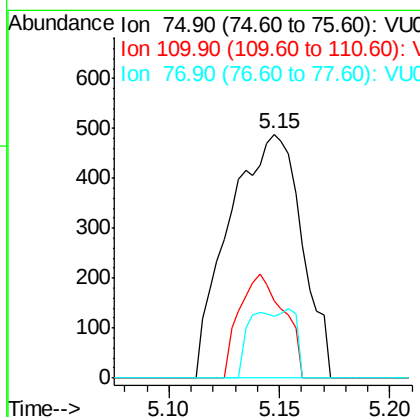
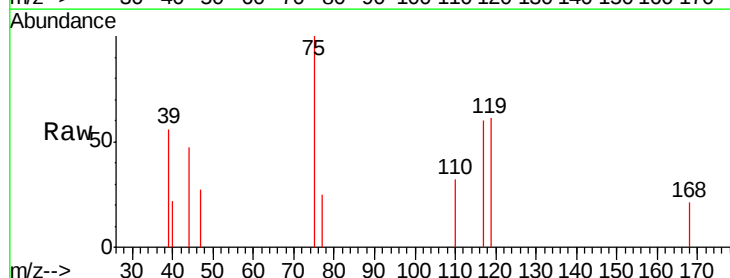
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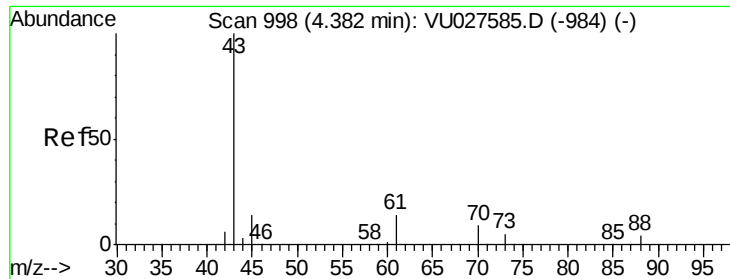
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#36
 1,1-Dichloropropene
 Concen: 0.57 ug/l
 RT: 5.15 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	26.1	15.5	46.5
77	10.6	25.4	38.0





#37

Ethyl Acetate

Concen: 0.56 ug/l m

RT: 4.41 min Scan# 1006

Delta R.T. 0.03 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

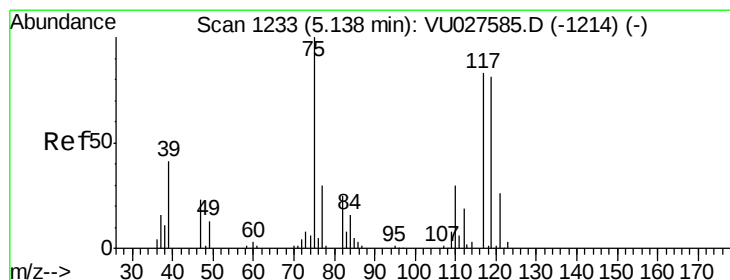
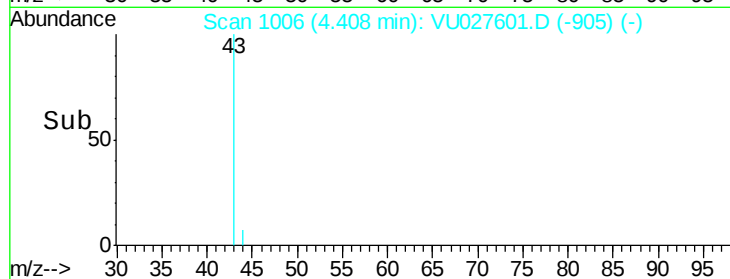
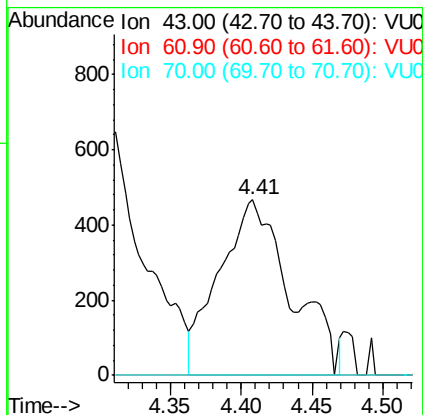
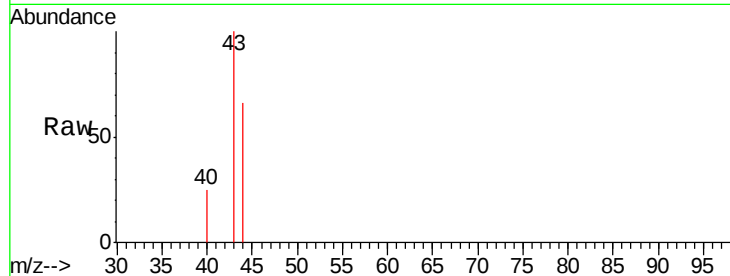
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	43	Resp:	1645
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.7	16.1#
70	0.0	7.4	11.2#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 0.47 ug/l

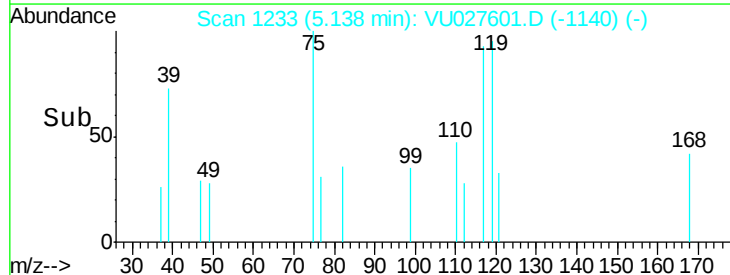
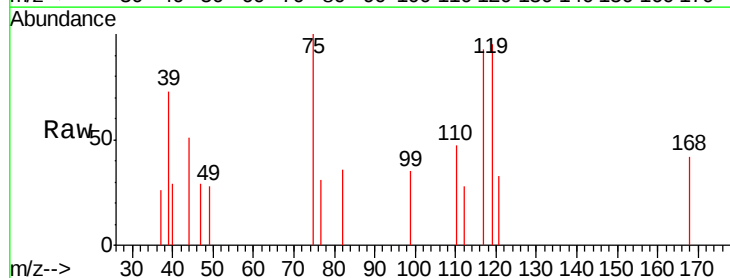
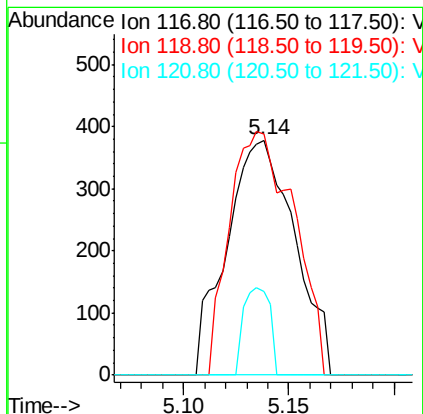
RT: 5.14 min Scan# 1233

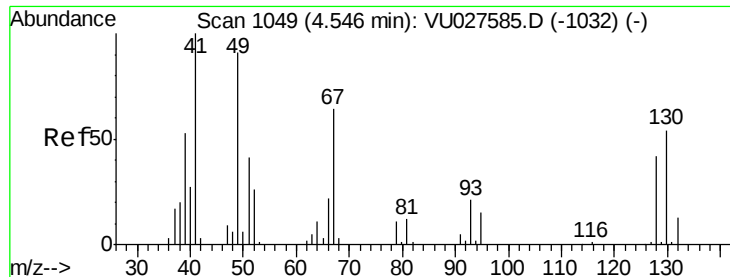
Delta R.T. -0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion:	117	Resp:	850
Ion	Ratio	Lower	Upper
117	100		
119	102.6	74.5	111.7
121	35.4	24.6	37.0





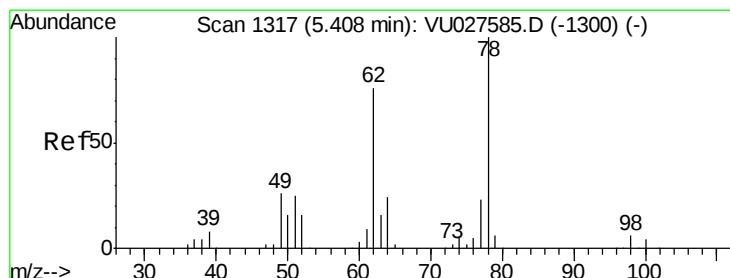
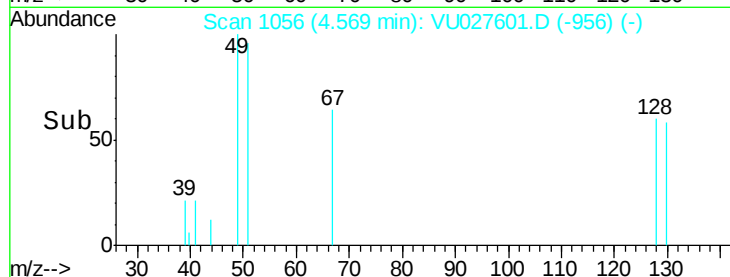
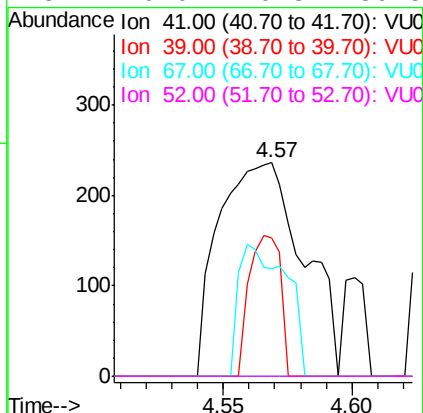
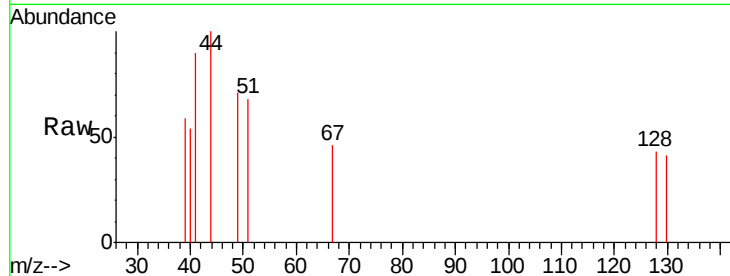
#41
Methacrylonitrile
Concen: 0.94 ug/l
RT: 4.57 min Scan# 1056
Delta R.T. 0.02 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 41 Resp: 539
Ion Ratio Lower Upper
41 100
39 24.5 41.1 61.7#
67 34.9 50.4 75.6#
52 0.0 20.3 30.5#

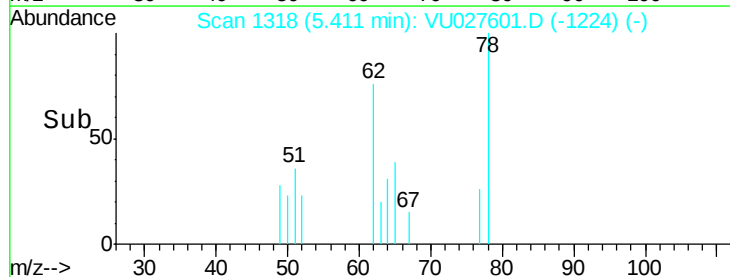
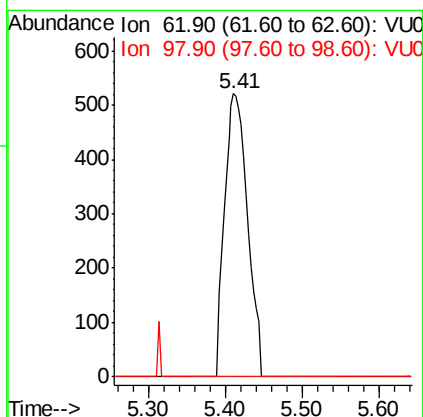
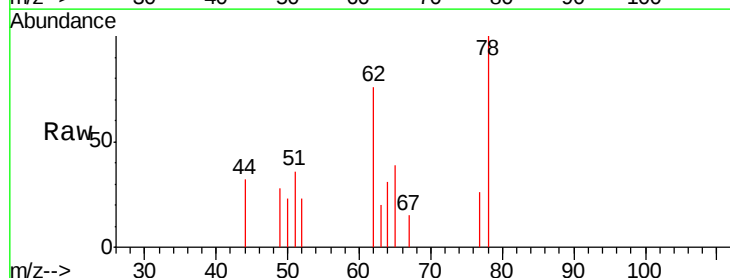
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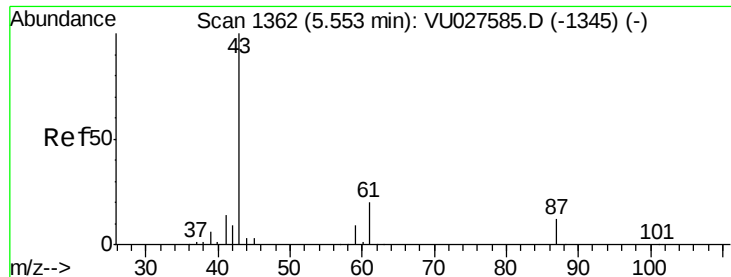
MMDadoda
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#42
1,2-Dichloroethane
Concen: 0.49 ug/l m
RT: 5.41 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion: 62 Resp: 1079
Ion Ratio Lower Upper
62 100
98 0.0 0.0 16.8





#43

Isopropyl Acetate

Concen: 0.45 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

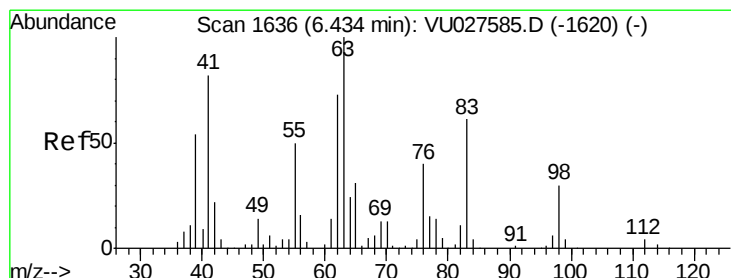
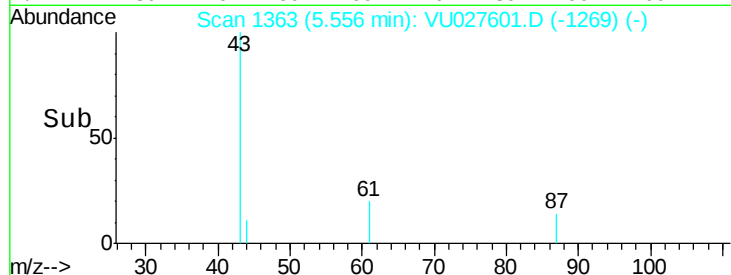
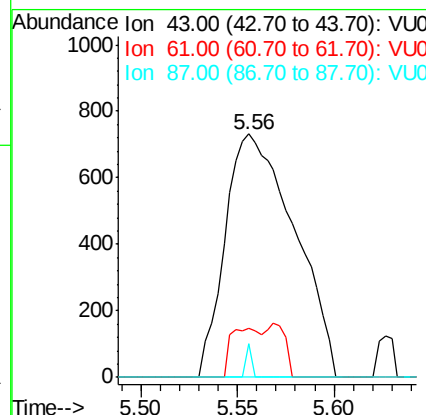
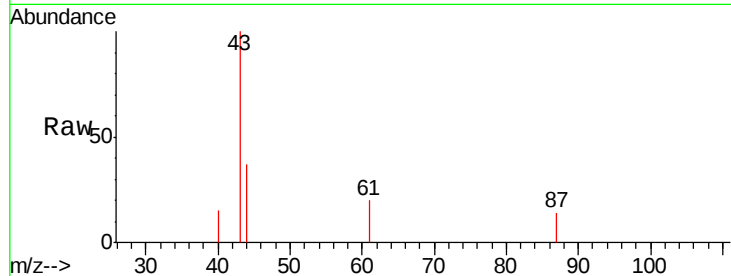
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	43	Resp:	1820
Ion	Ratio	Lower	Upper
43	100		
61	8.7	15.3	22.9#
87	1.1	8.6	13.0#

Manual Integrations
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#45

1,2-Dichloropropane

Concen: 0.43 ug/l

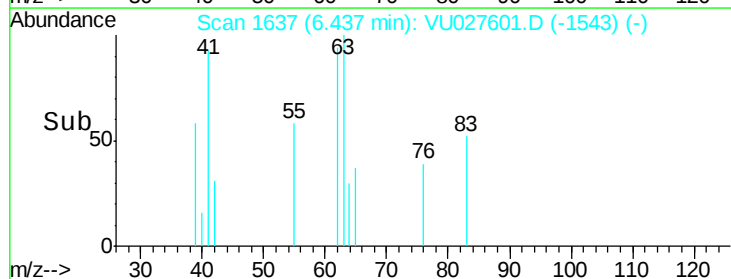
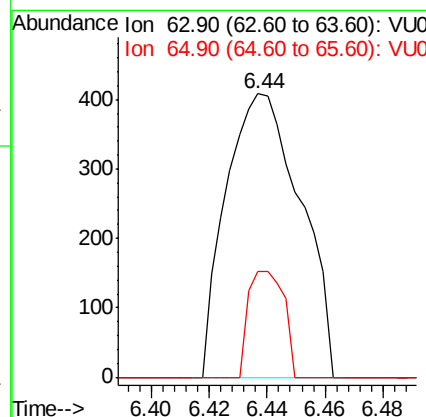
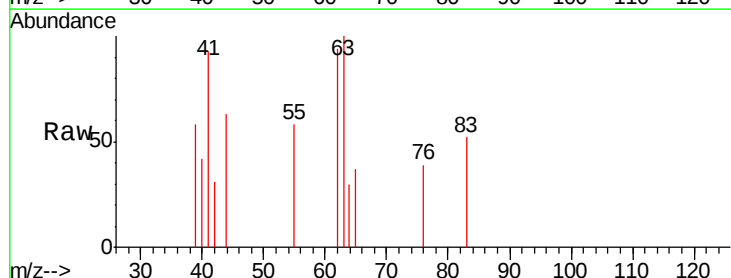
RT: 6.44 min Scan# 1637

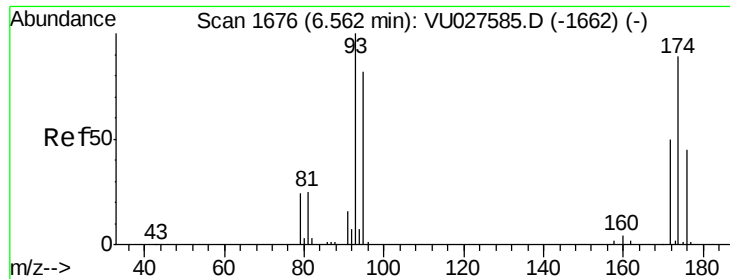
Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion:	63	Resp:	728
Ion	Ratio	Lower	Upper
63	100		
65	37.3	26.0	39.0





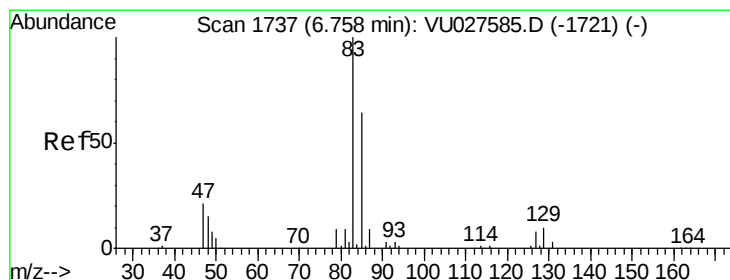
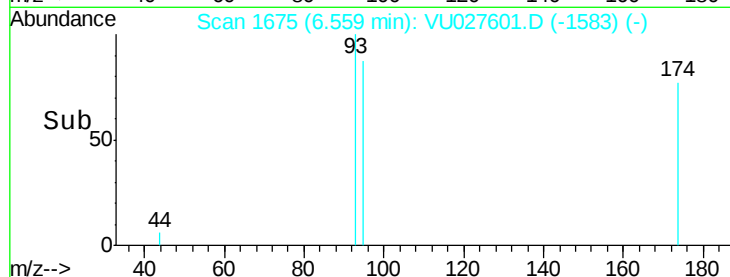
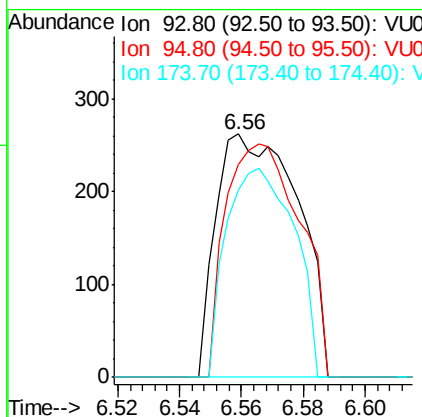
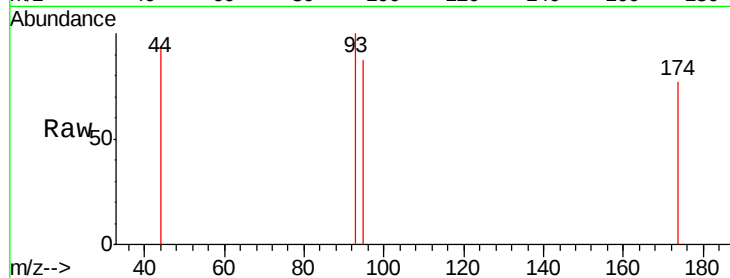
#46
Dibromomethane
Concen: 0.48 ug/l
RT: 6.56 min Scan# 1675
Delta R.T. -0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
93	100		
95	87.6	66.5	99.7
174	71.6	72.5	108.7#

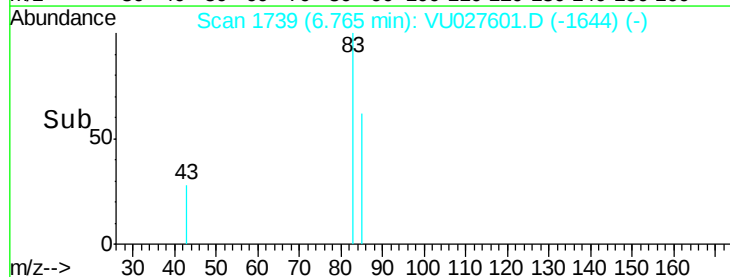
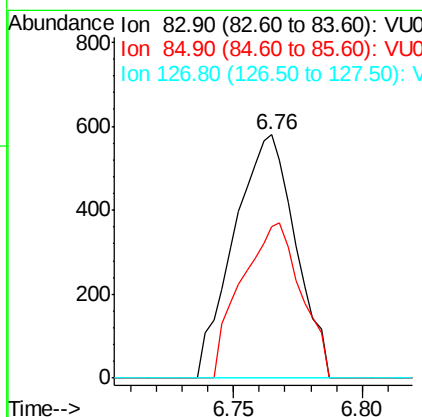
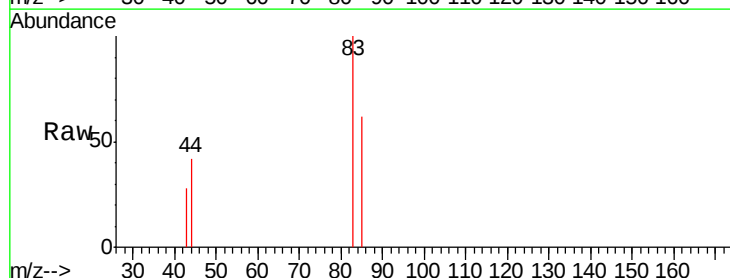
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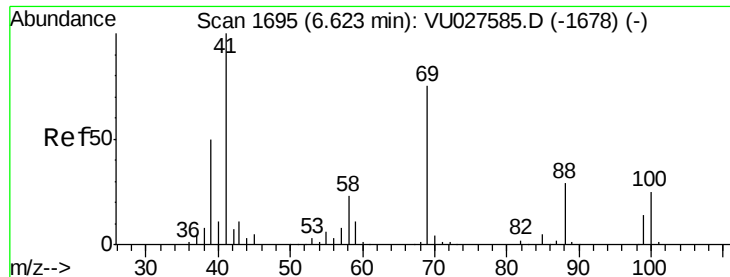
MMDadoda
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#47
Bromodichloromethane
Concen: 0.48 ug/l
RT: 6.76 min Scan# 1739
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.0
127	0.0	6.3	9.5#





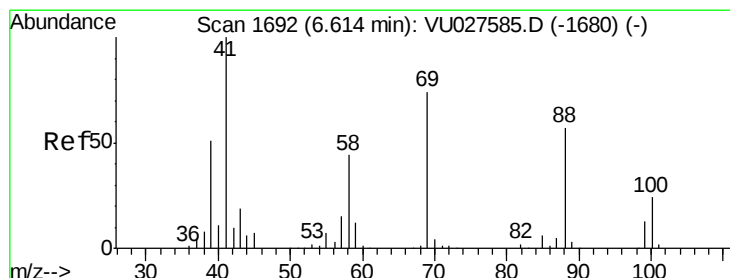
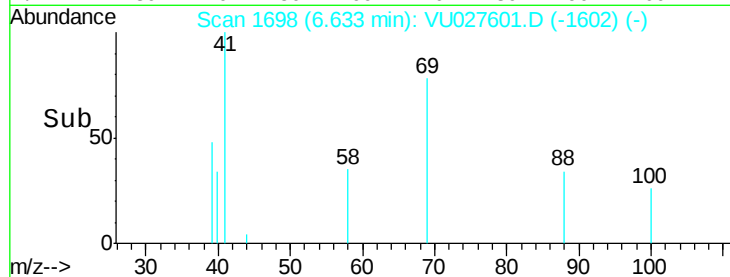
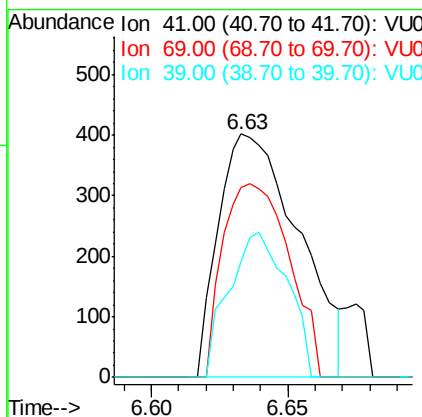
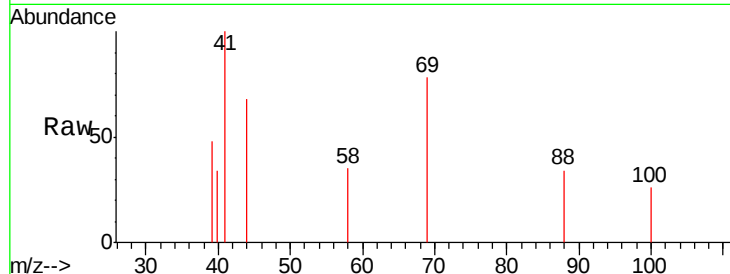
#48
Methyl methacrylate
Concen: 1.85 ug/l
RT: 6.63 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
41	100		
69	65.8	61.0	91.4
39	43.5	39.9	59.9

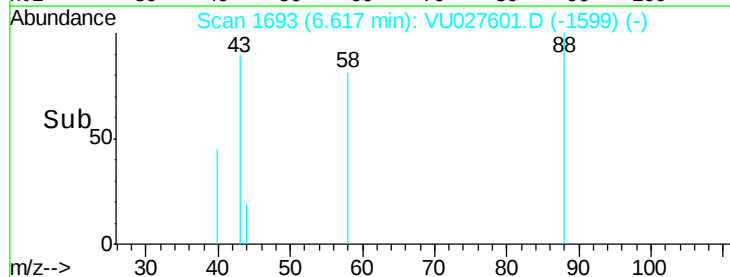
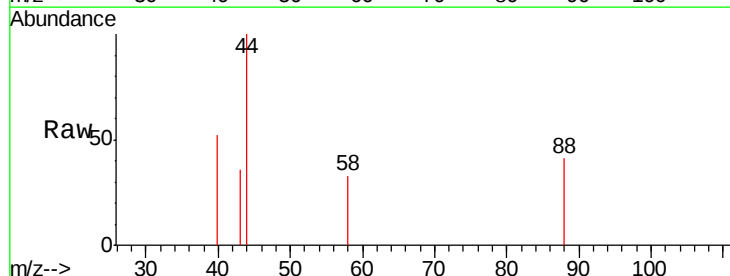
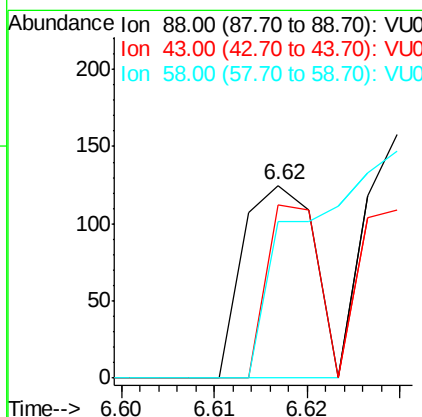
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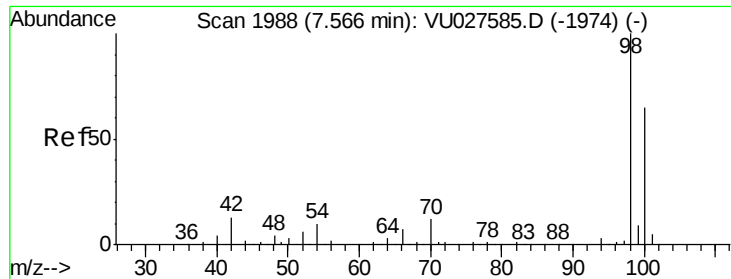
MMDadoda
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#49
1,4-Dioxane
Concen: 1.69 ug/l
RT: 6.62 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.8	46.2#
58	0.0	67.0	100.6#





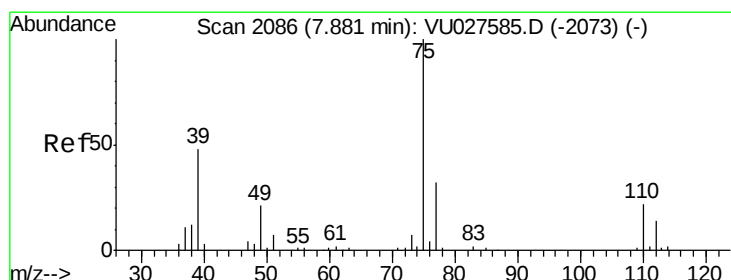
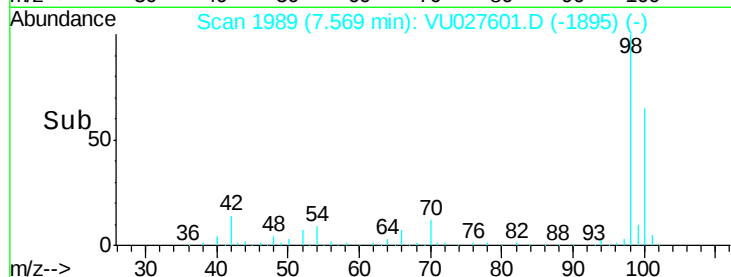
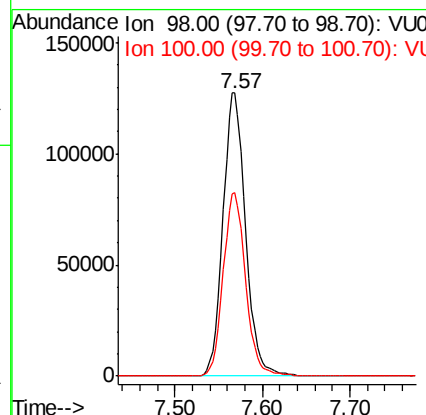
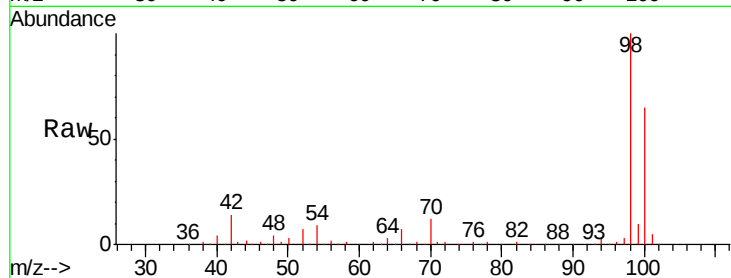
#50
Toluene-d8
Concen: 46.86 ug/l
RT: 7.57 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion: 98 Resp: 228153
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1

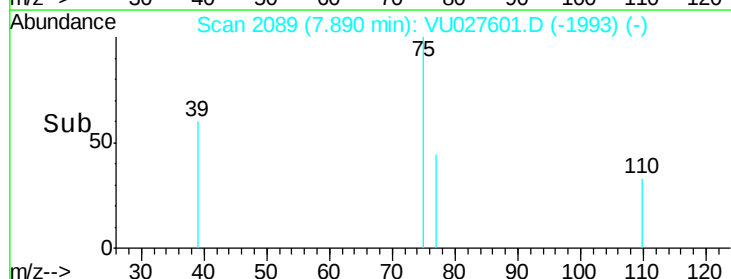
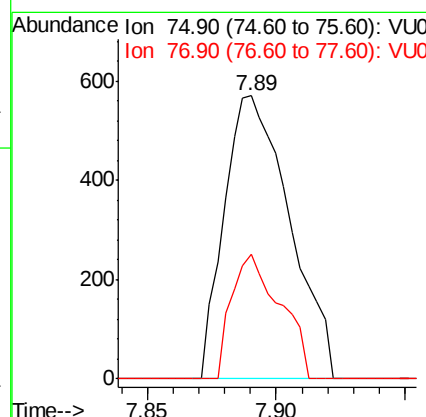
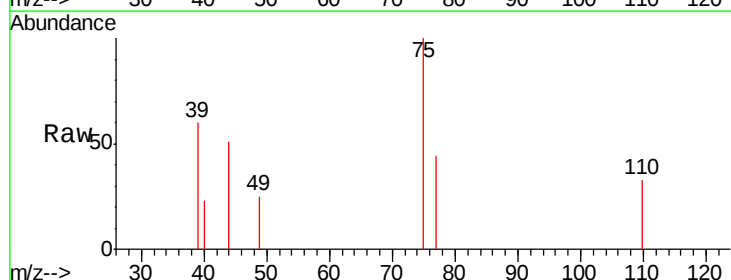
Manual Integrations
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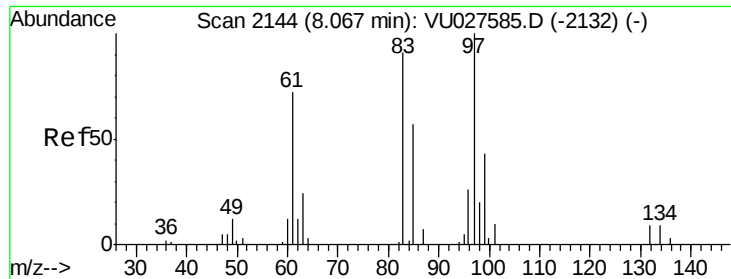
MMDadoda
10/16/2018 2:22:44 PM



#53
t-1,3-Dichloropropene
Concen: 0.44 ug/l
RT: 7.89 min Scan# 2089
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion: 75 Resp: 1009
Ion Ratio Lower Upper
75 100
77 44.1 25.0 37.6#





#55

1,1,2-Trichloroethane

Concen: 0.43 ug/l

RT: 8.08 min Scan# 2147

Delta R.T. 0.01 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

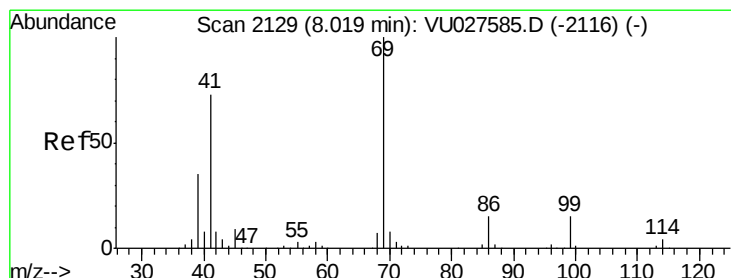
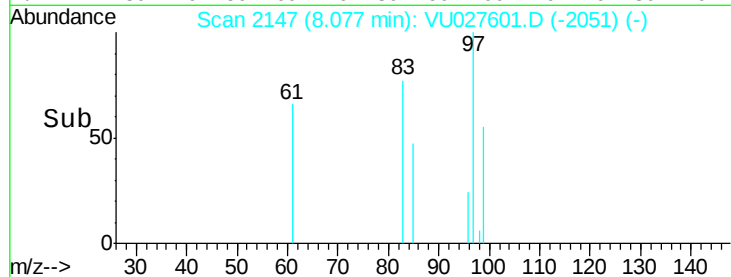
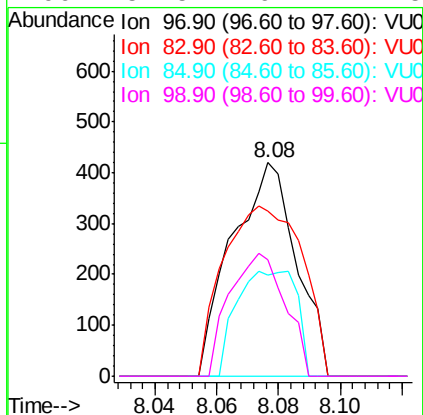
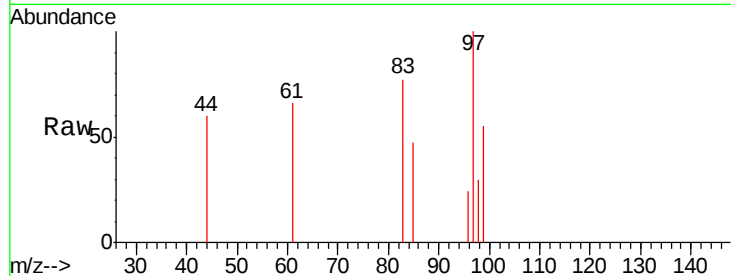
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	97	Resp:	607
Ion	Ratio	Lower	Upper
97	100		
83	77.1	73.0	109.6
85	47.1	47.3	70.9#
99	54.5	49.7	74.5

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#56

Ethyl methacrylate

Concen: 2.50 ug/l

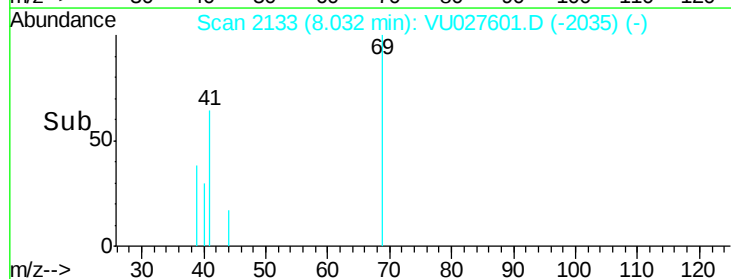
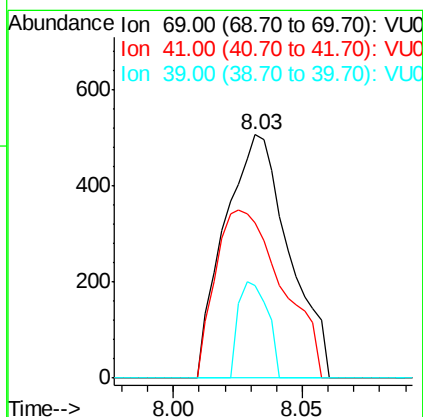
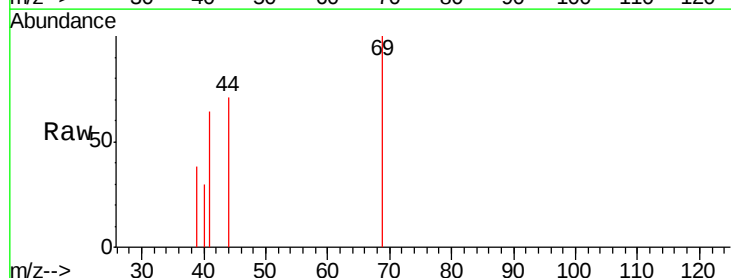
RT: 8.03 min Scan# 2133

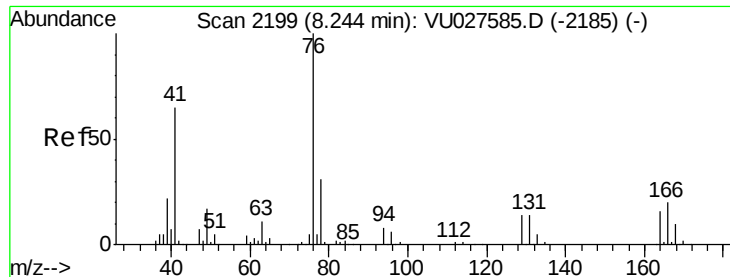
Delta R.T. 0.01 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion:	69	Resp:	882
Ion	Ratio	Lower	Upper
69	100		
41	71.3	60.0	90.0
39	18.1	29.5	44.3#





#57

1,3-Dichloropropane

Concen: 0.50 ug/l

RT: 8.25 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 76 Resp: 1326

Ion Ratio Lower Upper

76 100

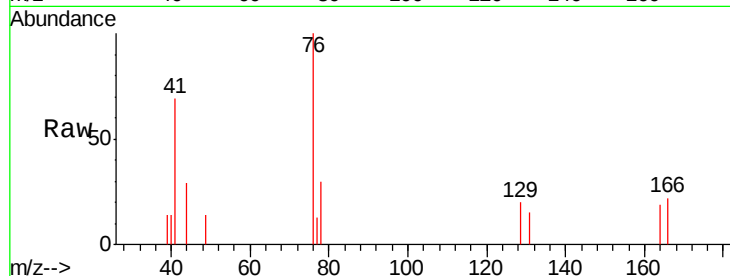
78 22.8 25.8 38.6#

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VU027585.D (-2185) (-)

Ion 77.90 (77.60 to 78.60): VU027601.D (-2106) (-)

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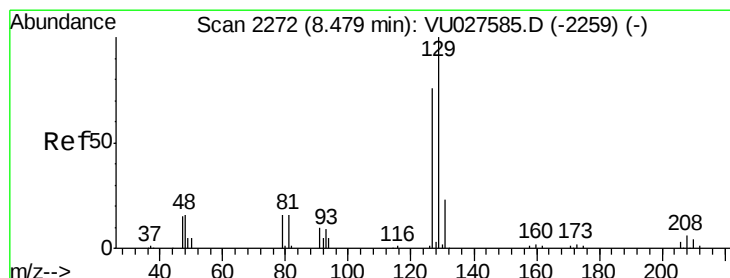
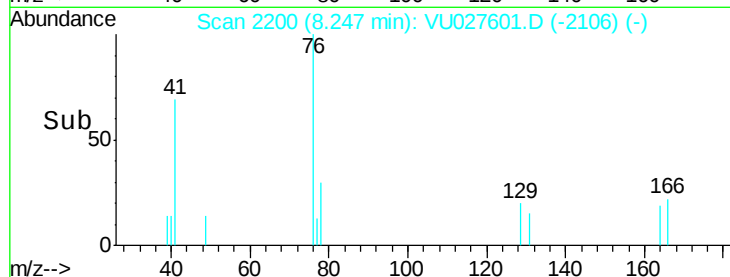
8.25

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#60

Dibromochloromethane

Concen: 0.47 ug/l

RT: 8.48 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VU027601.D

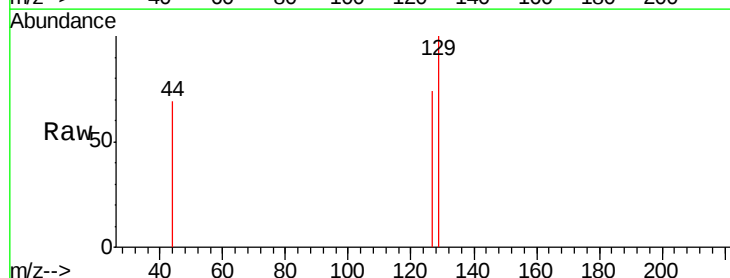
Acq: 11 Oct 2018 16:07

Tgt Ion: 129 Resp: 655

Ion Ratio Lower Upper

129 100

127 86.1 39.1 117.2



Abundance Ion 128.80 (128.50 to 129.50): VU027585.D (-2259) (-)

Ion 126.80 (126.50 to 127.50): VU027601.D (-2179) (-)

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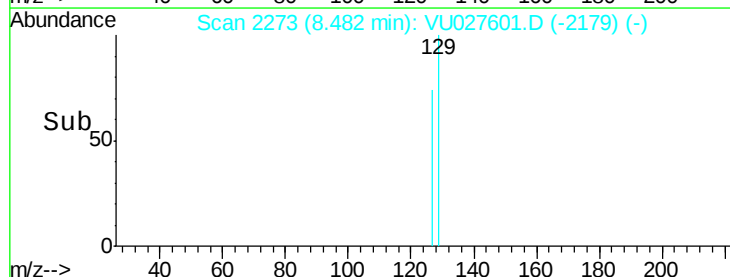
8.48

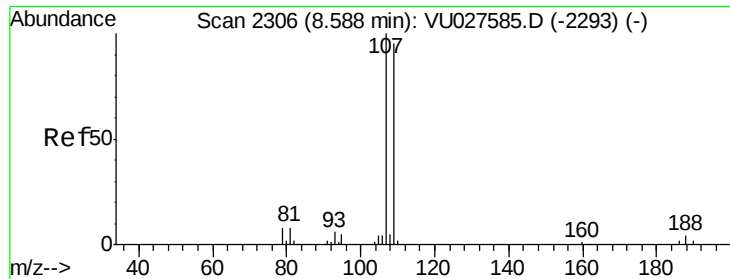
8.48

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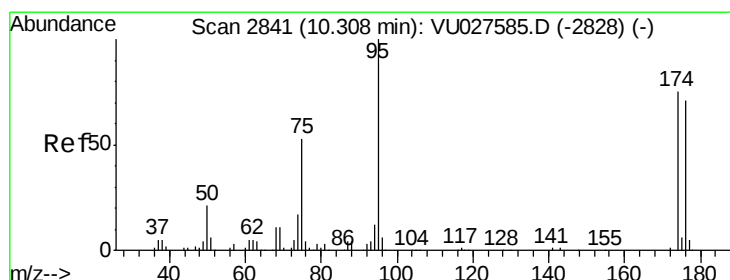
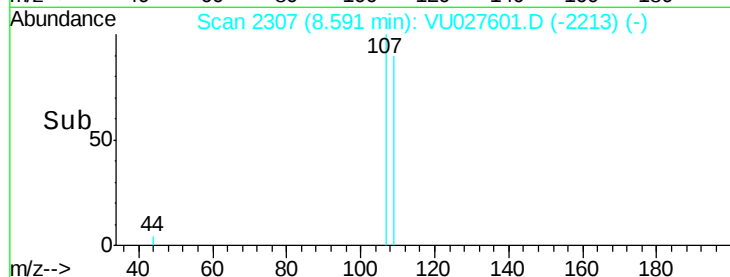
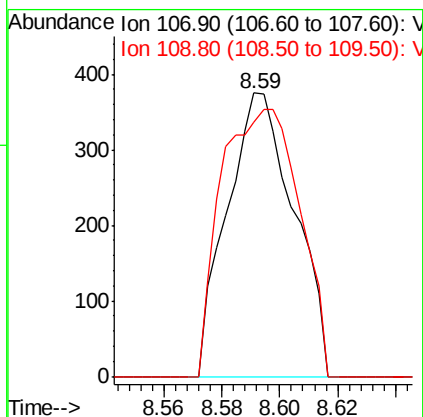
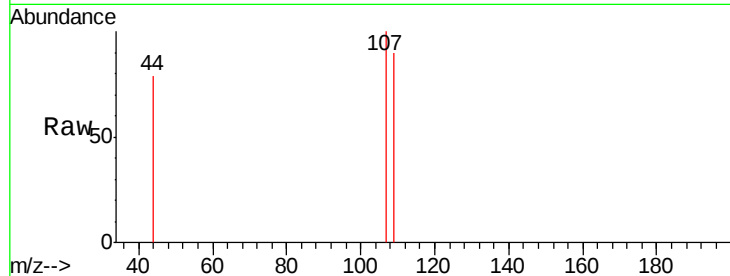
#61
 1,2-Dibromoethane
 Concen: 0.41 ug/l
 RT: 8.59 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 107 Resp: 603
 Ion Ratio Lower Upper
 107 100
 109 110.3 74.5 111.7

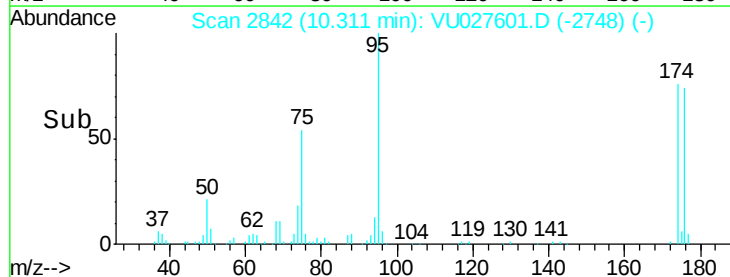
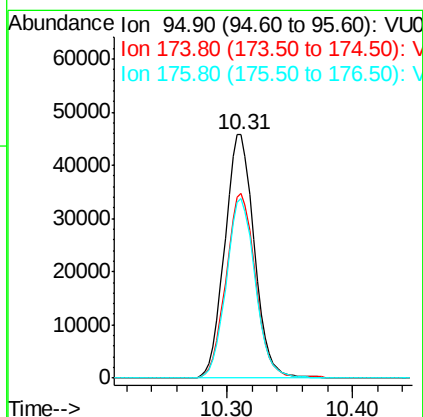
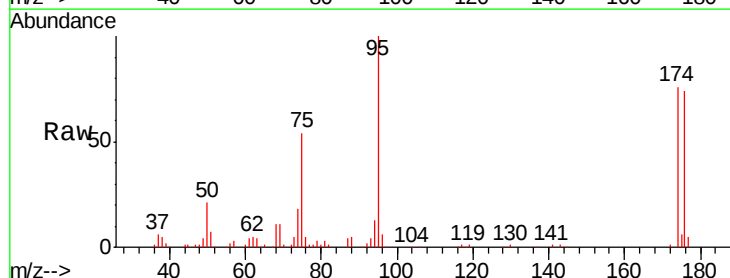
Manual Integrations
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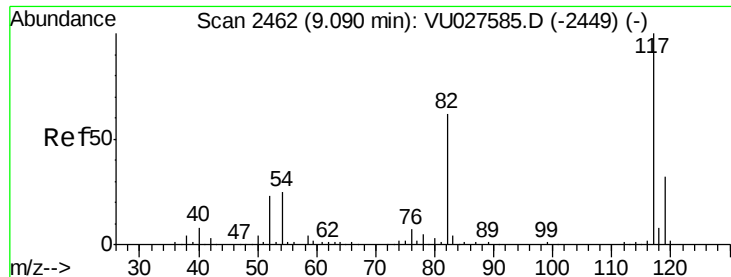
MMDadoda
 10/16/2018 2:22:44 PM



#62
 4-Bromofluorobenzene
 Concen: 42.60 ug/l
 RT: 10.31 min Scan# 2842
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion: 95 Resp: 74809
 Ion Ratio Lower Upper
 95 100
 174 75.6 0.0 147.8
 176 72.6 0.0 140.8





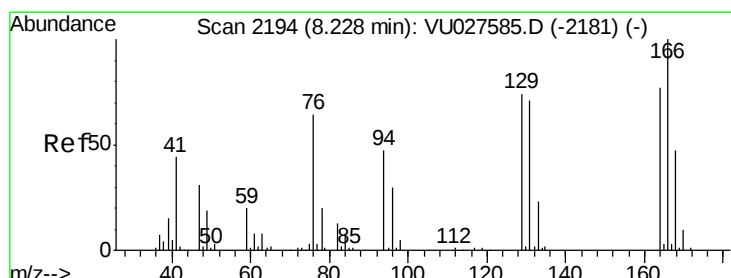
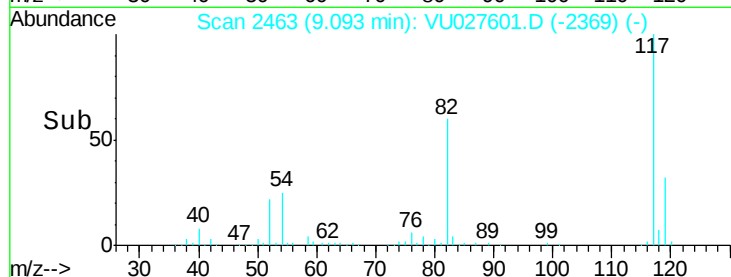
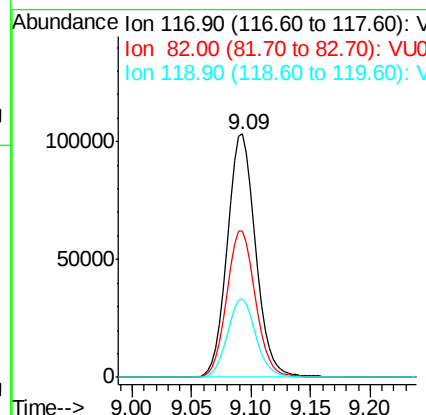
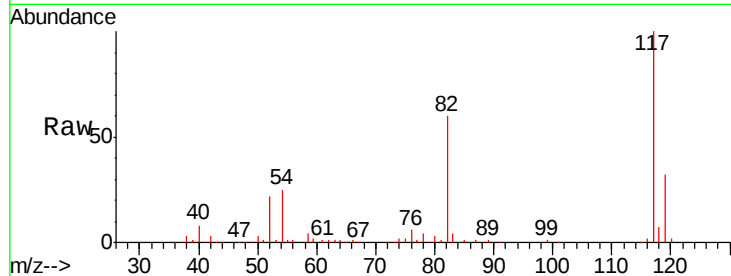
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	171110		
82	60.1	49.2	73.8	
119	32.5	25.7	38.5	

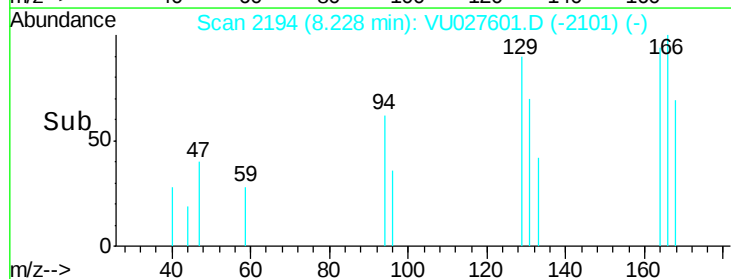
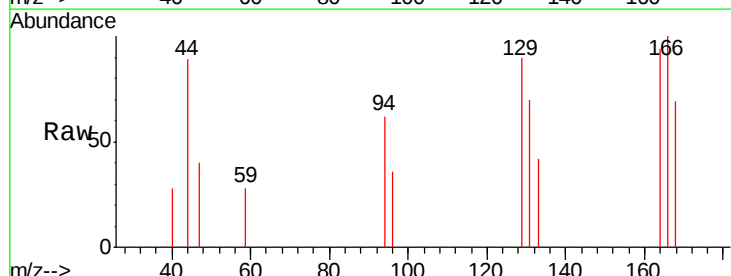
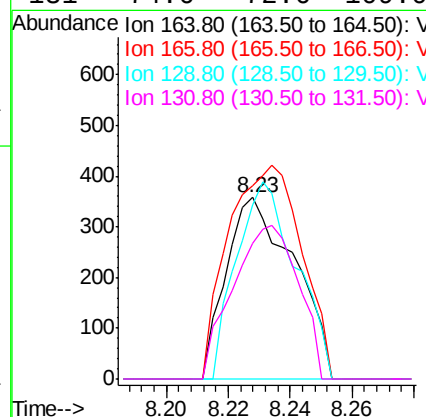
Manual Integrations
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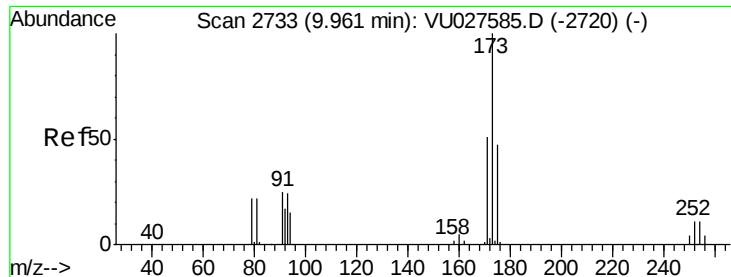
MMDadoda
10/16/2018 2:22:44 PM



#64
Tetrachloroethene
Concen: 0.51 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	545		
166	106.1	101.0	151.6	
129	95.5	78.0	117.0	
131	74.6	72.6	109.0	





#71

Bromoform

Concen: 0.38 ug/l

RT: 9.96 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

ClientSampleId :

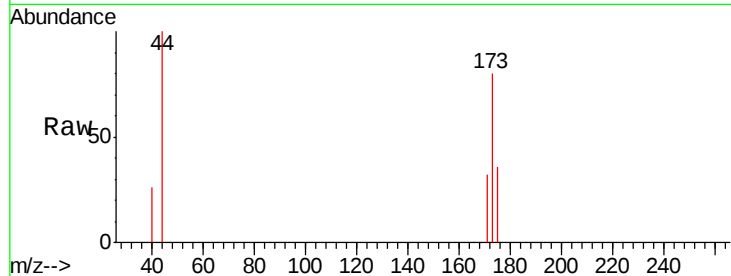
MDL-WATER-03-QT4-2018

Tgt Ion:173 Resp: 379

Ion	Ratio	Lower	Upper
173	100		
175	35.6	24.3	73.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

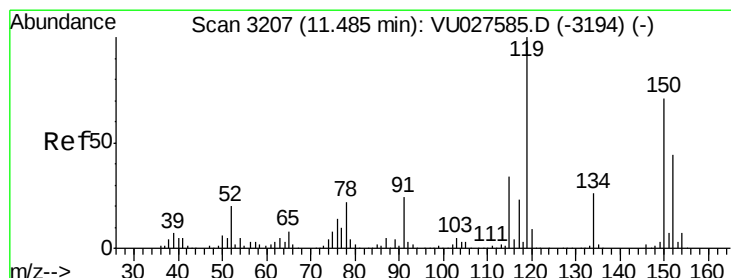
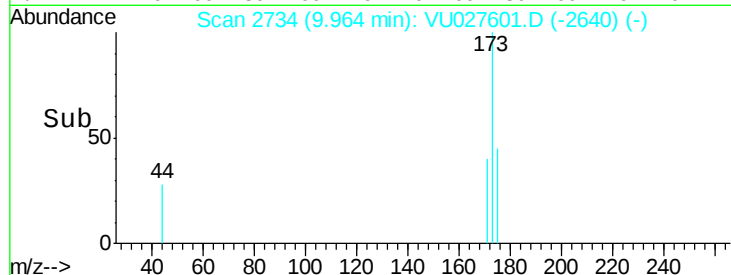
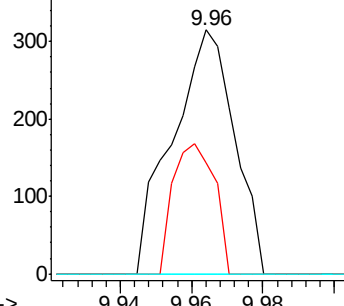
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.48 min Scan# 3207

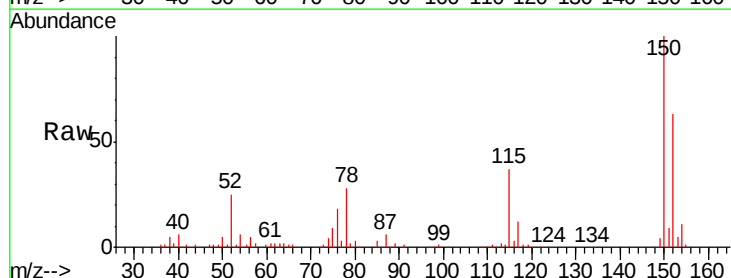
Delta R.T. -0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion:152 Resp: 72453

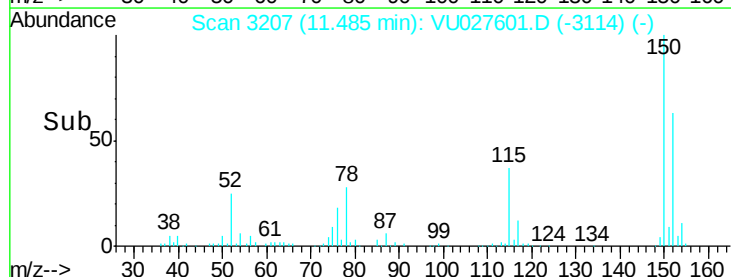
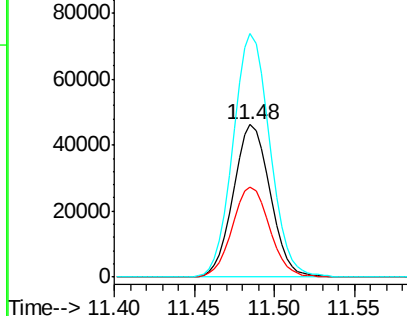
Ion	Ratio	Lower	Upper
152	100		
115	60.1	43.4	130.2
150	160.1	0.0	349.2

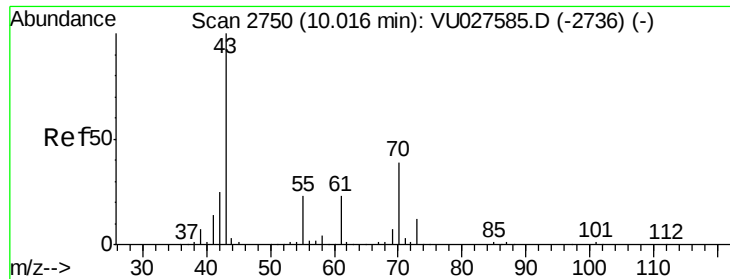


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.43 ug/l

RT: 10.02 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Instrument :

MSVOA_U

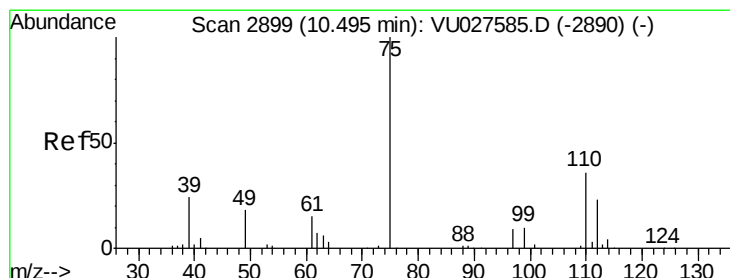
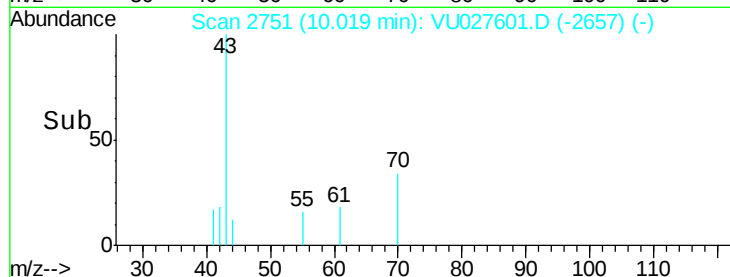
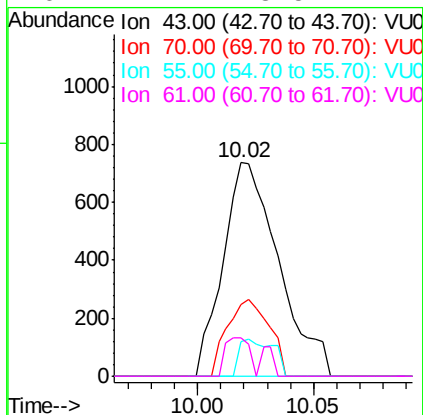
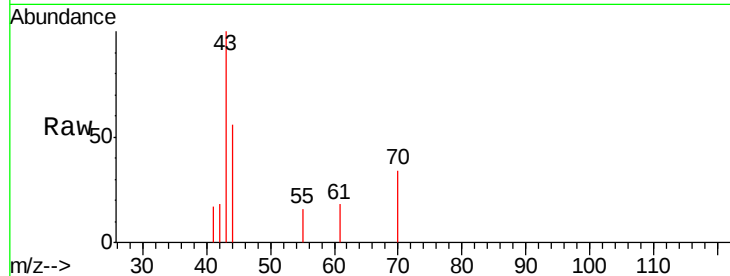
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	43	Resp:	1228
Ion	Ratio	Lower	Upper
43	100		
70	27.1	31.3	46.9#
55	10.5	19.0	28.6#
61	7.7	18.5	27.7#

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 0.52 ug/l m

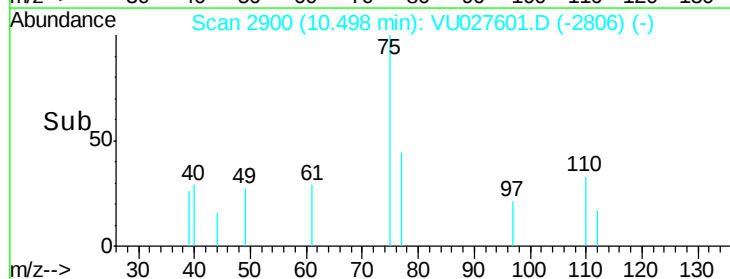
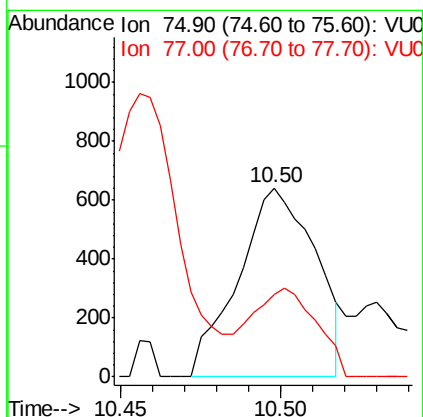
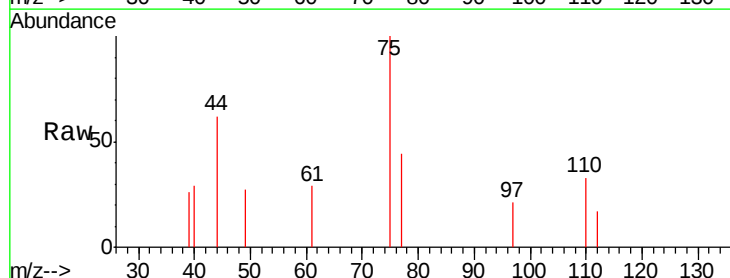
RT: 10.50 min Scan# 2900

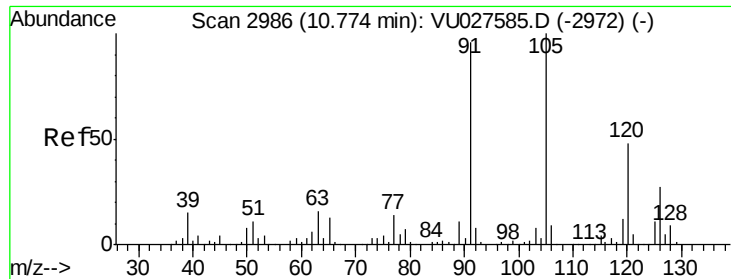
Delta R.T. 0.00 min

Lab File: VU027601.D

Acq: 11 Oct 2018 16:07

Tgt Ion:	75	Resp:	1077
Ion	Ratio	Lower	Upper
75	100		
77	33.5	20.3	60.9





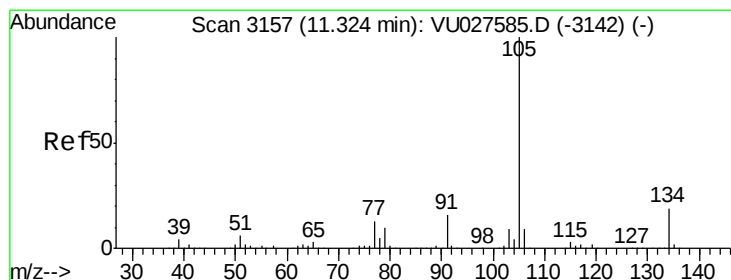
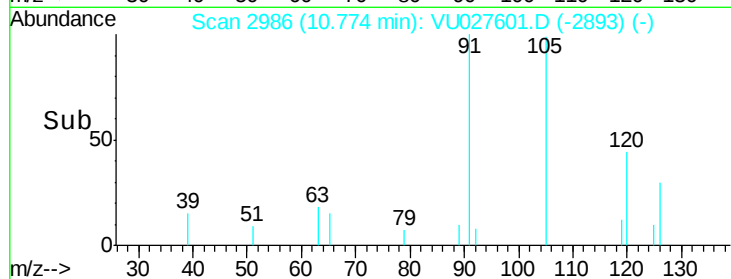
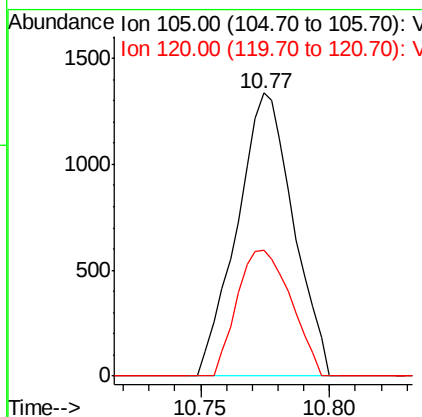
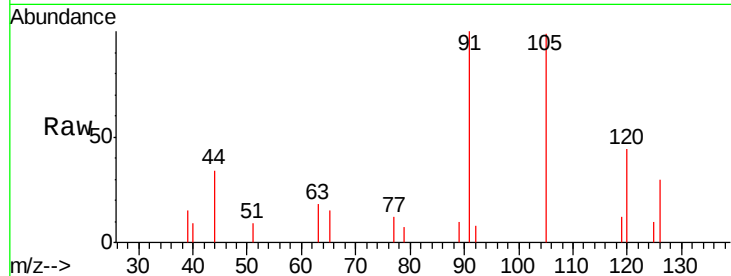
#80
 1,3,5-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion:105 Resp: 2031
 Ion Ratio Lower Upper
 105 100
 120 42.8 24.1 72.4

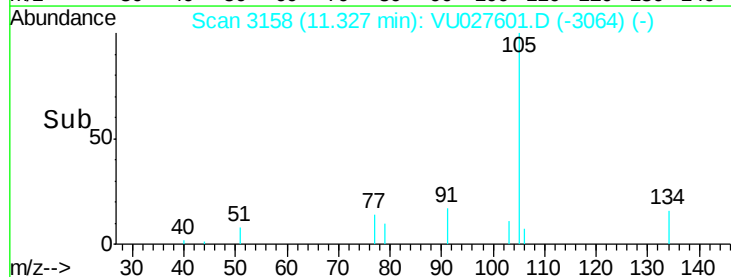
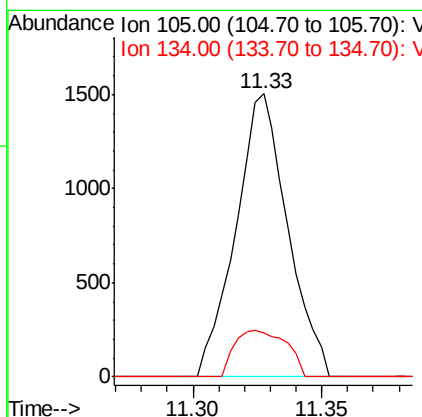
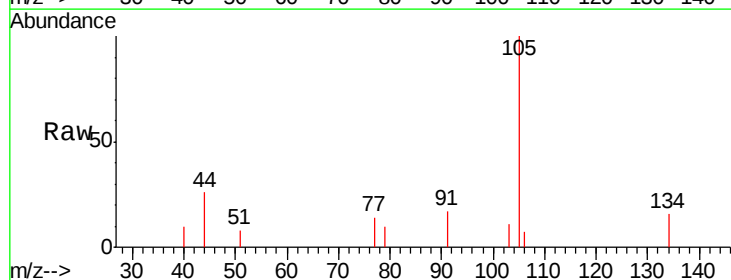
Manual Integrations
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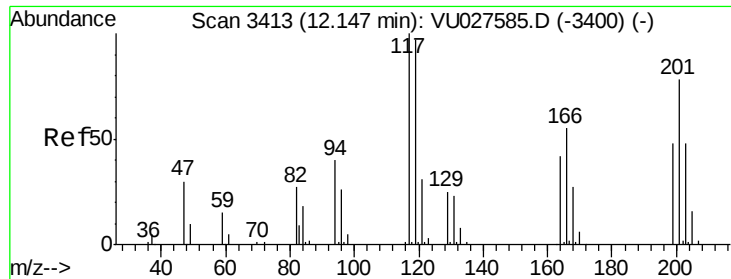
MMDadoda
 10/16/2018 2:22:44 PM



#85
 sec-Butylbenzene
 Concen: 0.69 ug/l
 RT: 11.33 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion:105 Resp: 2116
 Ion Ratio Lower Upper
 105 100
 134 16.3 9.6 28.6





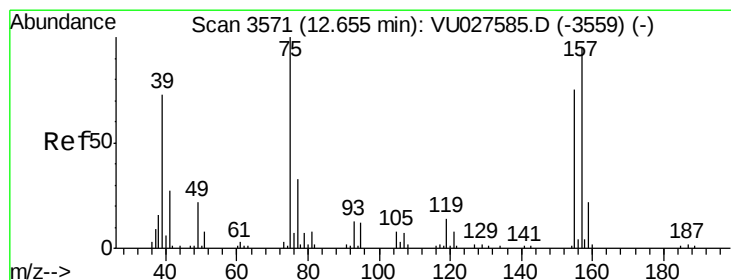
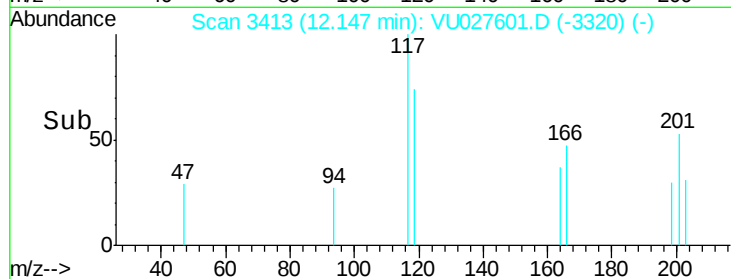
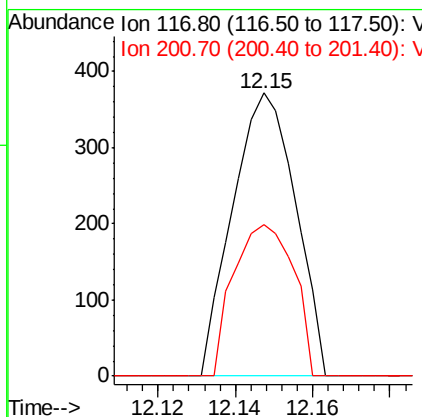
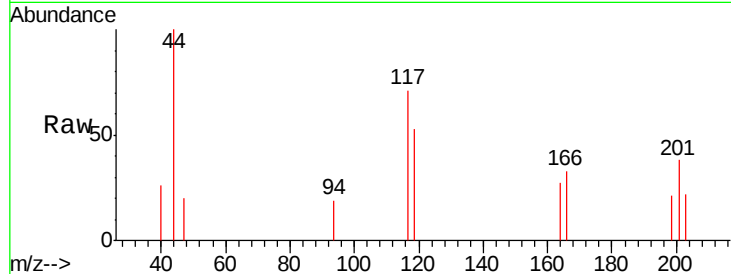
#90
 Hexachloroethane
 Concen: 0.52 ug/l
 RT: 12.15 min Scan# 3413
 Delta R.T. -0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion: 117 Resp: 421
 Ion Ratio Lower Upper
 117 100
 201 50.8 37.9 113.6

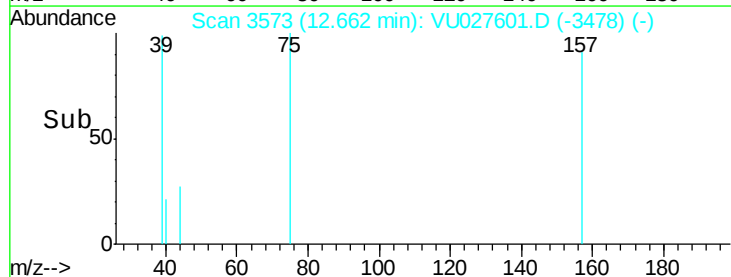
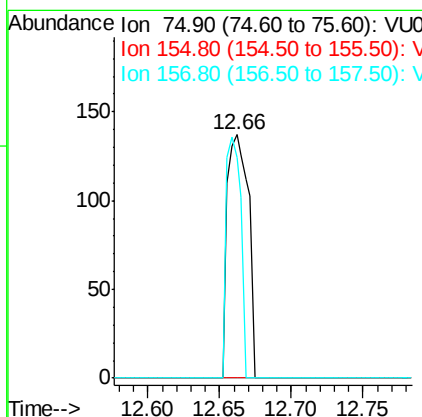
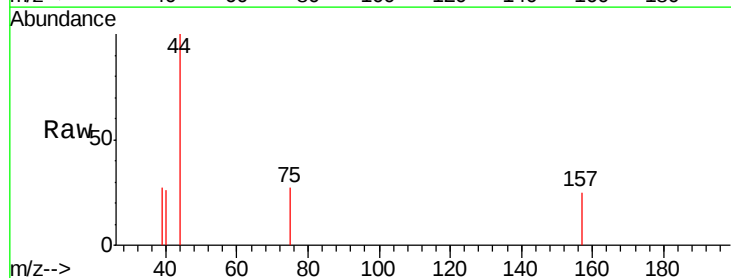
Manual Integrations
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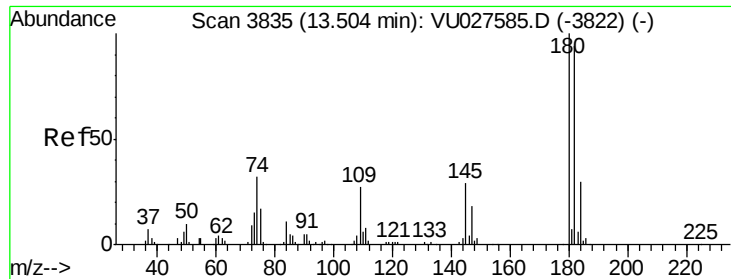
MMDadoda
 10/16/2018 2:22:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.30 ug/l m
 RT: 12.66 min Scan# 3573
 Delta R.T. 0.01 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion: 75 Resp: 139
 Ion Ratio Lower Upper
 75 100
 155 0.0 35.9 107.8#
 157 0.0 46.9 140.6#





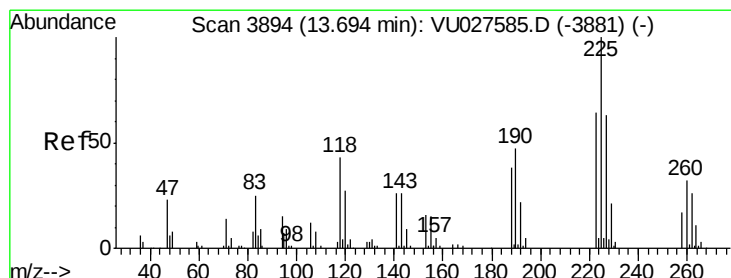
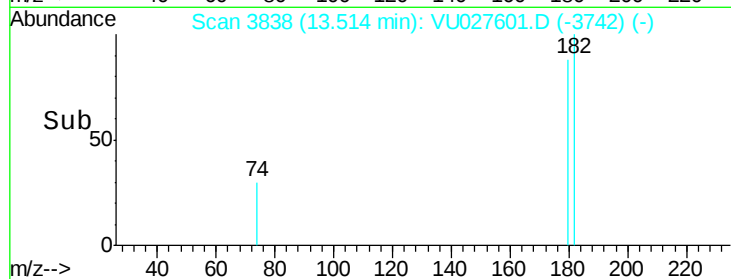
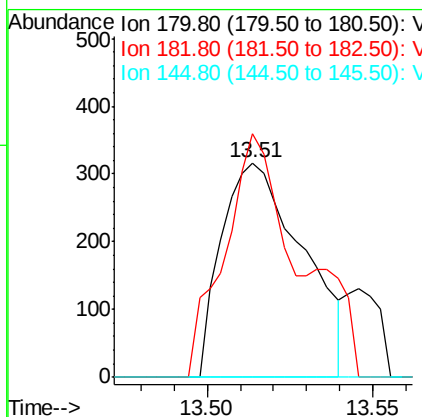
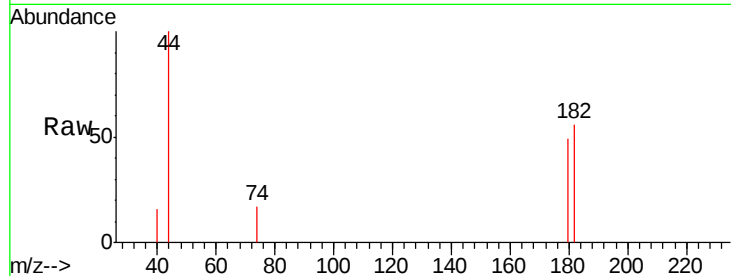
#93
 1,2,4-Trichlorobenzene
 Concen: 1.98 ug/l
 RT: 13.51 min Scan# 3838
 Delta R.T. 0.01 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.6	47.4	142.3
145	0.0	14.6	44.0#

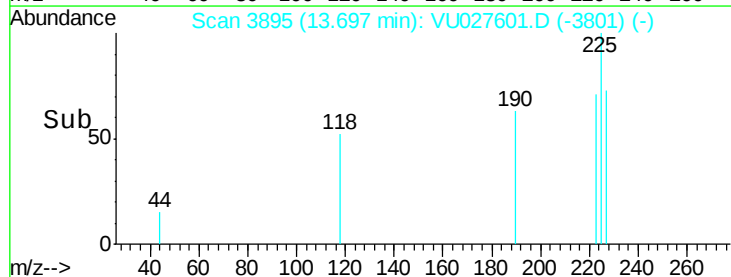
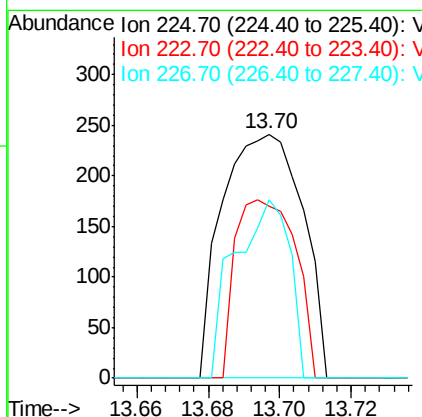
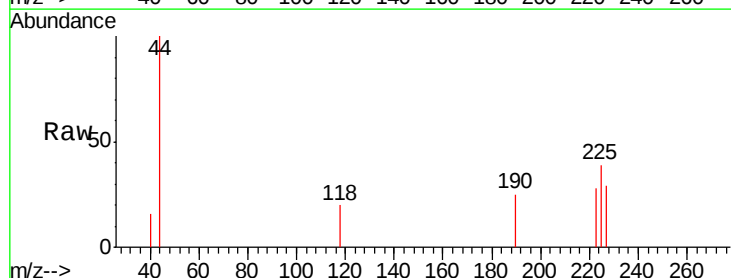
Manual Integrations
 APPROVED

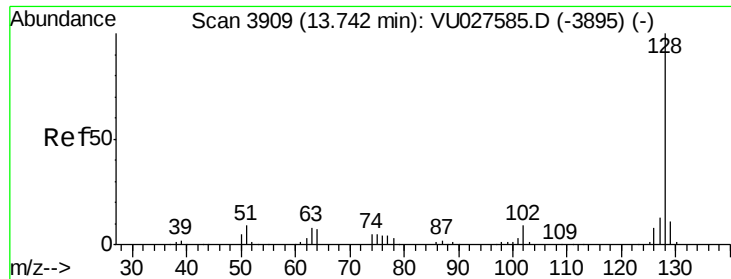
MMDadoda
 10/16/2018 2:22:44 PM



#94
 Hexachlorobutadiene
 Concen: 0.52 ug/l
 RT: 13.70 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU027601.D
 Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.8	95.3
227	50.3	31.9	95.7





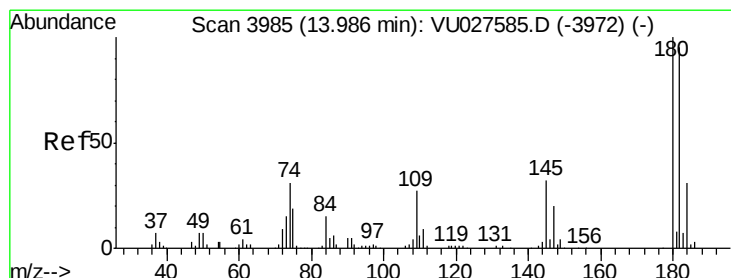
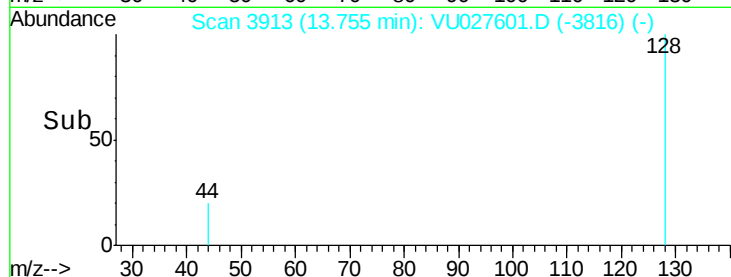
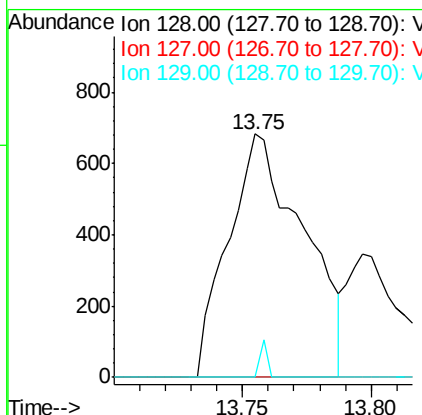
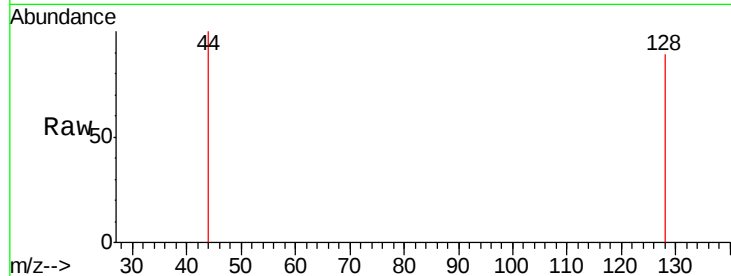
#95
Naphthalene
Concen: 1.52 ug/l
RT: 13.75 min Scan# 3913
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	1.4	8.6	12.8#

Manual Integrations
APPROVED

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10/16/2018 2:22:44 PM



#96
1,2,3-Trichlorobenzene
Concen: 0.39 ug/l
RT: 13.99 min Scan# 3987
Delta R.T. 0.01 min
Lab File: VU027601.D
Acq: 11 Oct 2018 16:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	79.0	47.4	142.2
145	24.0	15.9	47.7

