

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U101118\
 Data File : VU027593.D
 Acq On : 11 Oct 2018 13:00
 Operator : MD/SY
 Sample : J5164-09 0.5ppb
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2018 2:22:58 PM

Quant Time: Oct 12 02:19:23 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	116317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	198788	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	175144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73803	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	90150	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
35) Dibromofluoromethane	4.88	113	64842	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
50) Toluene-d8	7.57	98	234149	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
62) 4-Bromofluorobenzene	10.31	95	76094	42.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	646	0.51	ug/l	97
3) Chloromethane	1.33	50	964	0.49	ug/l	100
4) Vinyl Chloride	1.40	62	852	0.46	ug/l	99
5) Bromomethane	1.63	94	706	0.70	ug/l #	72
7) Trichlorofluoromethane	1.89	101	986	0.47	ug/l #	76
8) Diethyl Ether	2.11	74	393	0.42	ug/l	72
9) 1,1,2-Trichlorotrifluoroet	2.29	101	514	0.42	ug/l #	88
10) Methyl Iodide	2.41	142	277	3.53	ug/l #	56
12) 1,1-Dichloroethene	2.29	96	575	0.48	ug/l	87
13) Acrolein	2.20	56	874	2.51	ug/l	97
14) Allyl chloride	2.59	41	1772	0.61	ug/l #	76
15) Acrylonitrile	2.95	53	2179	2.09	ug/l	95
16) Acetone	2.32	43	2979	2.71	ug/l	100
17) Carbon Disulfide	2.48	76	2600	0.64	ug/l #	91
18) Methyl Acetate	2.62	43	1303	0.47	ug/l #	90
19) Methyl tert-butyl Ether	3.01	73	2102	0.46	ug/l	94
20) Methylene Chloride	2.70	84	769	0.49	ug/l	90
21) trans-1,2-Dichloroethene	2.99	96	649	0.49	ug/l	88
22) Diisopropyl ether	3.58	45	2484	0.45	ug/l #	70
23) Vinyl Acetate	3.54	43	10523	2.24	ug/l	99
25) 2-Butanone	4.29	43	3490	2.24	ug/l	93
26) 2,2-Dichloropropane	4.24	77	1205m	0.51	ug/l	
27) cis-1,2-Dichloroethene	4.23	96	571	0.39	ug/l	56
28) Bromochloromethane	4.55	49	630	0.43	ug/l #	94
29) Tetrahydrofuran	4.65	42	2140	2.19	ug/l #	85
30) Chloroform	4.67	83	1265m	0.48	ug/l	
32) 1,1,1-Trichloroethane	4.92	97	1020	0.46	ug/l #	52
36) 1,1-Dichloropropene	5.14	75	929	0.46	ug/l #	87
38) Carbon Tetrachloride	5.14	117	1018	0.55	ug/l #	66
39) Methylcyclohexane	6.42	83	1105	0.49	ug/l #	85
40) Benzene	5.40	78	2876	0.47	ug/l	95
41) Methacrylonitrile	4.57	41	370m	0.83	ug/l	
43) Isopropyl Acetate	5.56	43	1729	0.41	ug/l #	77
44) Trichloroethene	6.19	130	582	0.43	ug/l	85

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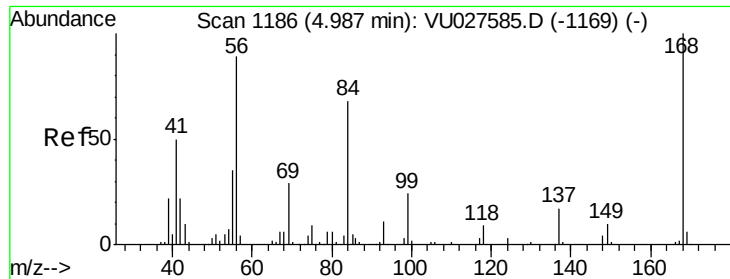
Manual Integrations
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Quant Time: Oct 12 02:19:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 10:41:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-Dichloropropane	6.44	63	753	0.43	ug/l	91
46) Dibromomethane	6.57	93	353	0.35	ug/l #	72
47) Bromodichloromethane	6.76	83	847	0.41	ug/l #	97
48) Methyl methacrylate	6.64	41	681	1.78	ug/l #	81
51) 4-Methyl-2-Pentanone	7.47	43	5685	2.02	ug/l	97
52) Toluene	7.64	92	1488	0.43	ug/l	83
53) t-1,3-Dichloropropene	7.89	75	1019	0.43	ug/l #	80
54) cis-1,3-Dichloropropene	7.28	75	1009	0.40	ug/l #	95
55) 1,1,2-Trichloroethane	8.07	97	651	0.45	ug/l #	86
56) Ethyl methacrylate	8.03	69	715	2.43	ug/l	96
57) 1,3-Dichloropropane	8.25	76	1118	0.41	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.13	63	2189	7.01	ug/l	91
59) 2-Hexanone	8.37	43	3778	1.72	ug/l	96
60) Dibromochloromethane	8.48	129	529	0.37	ug/l	94
61) 1,2-Dibromoethane	8.59	107	607	0.40	ug/l	96
64) Tetrachloroethene	8.23	164	493	0.45	ug/l #	82
65) Chlorobenzene	9.12	112	1767	0.49	ug/l	93
66) 1,1,1,2-Tetrachloroethane	9.21	131	518	0.42	ug/l #	62
67) Ethyl Benzene	9.25	91	2780	0.45	ug/l	99
68) m/p-Xylenes	9.38	106	1892	0.83	ug/l	93
69) o-Xylene	9.79	106	911	0.41	ug/l	93
70) Styrene	9.80	104	1382	1.59	ug/l	90
71) Bromoform	9.96	173	461	0.45	ug/l #	54
73) Isopropylbenzene	10.17	105	2223	0.45	ug/l	99
74) N-amyl acetate	10.02	43	1112	0.38	ug/l #	78
75) 1,1,2,2-Tetrachloroethane	10.46	83	1046	0.49	ug/l #	90
76) 1,2,3-Trichloropropane	10.50	75	1230	0.58	ug/l	82
77) Bromobenzene	10.46	156	626	0.51	ug/l	81
78) n-propylbenzene	10.59	91	2902	0.48	ug/l	88
79) 2-Chlorotoluene	10.66	91	1986	0.54	ug/l	90
80) 1,3,5-Trimethylbenzene	10.77	105	1835	0.20	ug/l	91
81) trans-1,4-Dichloro-2-buten	10.50	75	1230	0.68	ug/l #	100
82) 4-Chlorotoluene	10.77	91	2039	0.49	ug/l	98
83) tert-Butylbenzene	11.10	119	1893	0.47	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	1907	0.41	ug/l	95
85) sec-Butylbenzene	11.33	105	2087	0.68	ug/l	96
86) p-Isopropyltoluene	11.48	119	1654	0.83	ug/l	89
87) 1,3-Dichlorobenzene	11.42	146	1277	0.57	ug/l	88
88) 1,4-Dichlorobenzene	11.51	146	1583m	0.66	ug/l	
89) n-Butylbenzene	11.89	91	1261	1.83	ug/l	94
90) Hexachloroethane	12.15	117	362	0.44	ug/l	98
91) 1,2-Dichlorobenzene	11.88	146	1189	0.52	ug/l	92
93) 1,2,4-Trichlorobenzene	13.52	180	472	1.93	ug/l #	85
94) Hexachlorobutadiene	13.70	225	289	0.40	ug/l #	68
96) 1,2,3-Trichlorobenzene	14.00	180	477	0.32	ug/l #	69

(#) = 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: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:168 Resp: 116317

Ion Ratio Lower Upper

168 100

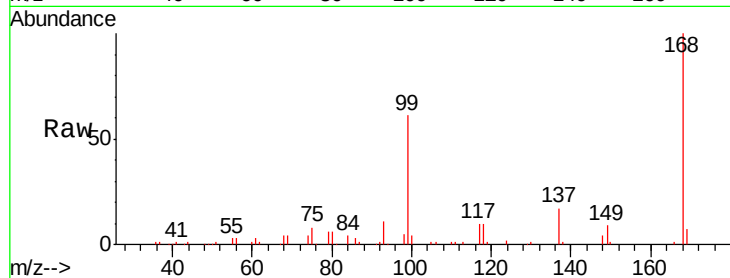
99 60.9 50.8 76.2

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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

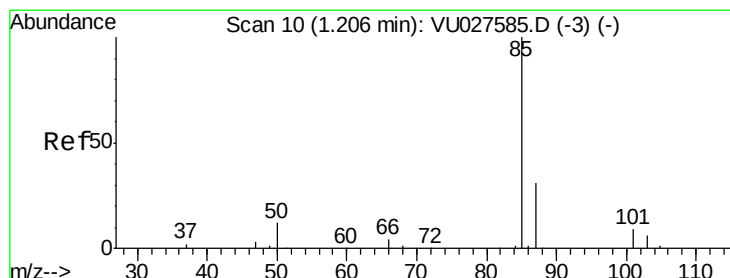
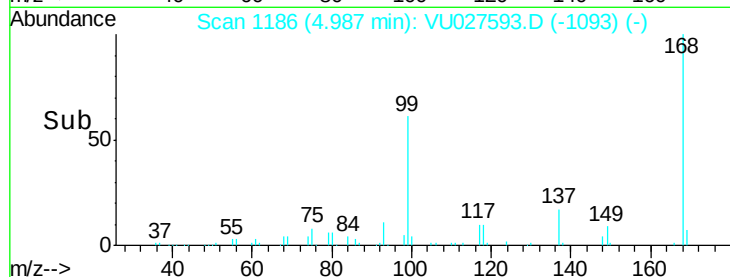
30000

20000

10000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.51 ug/l

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027593.D

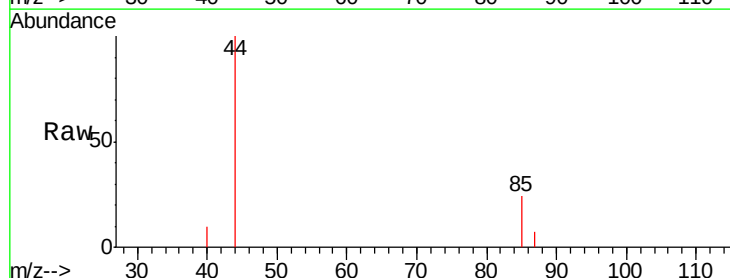
Acq: 11 Oct 2018 13:00

Tgt Ion: 85 Resp: 646

Ion Ratio Lower Upper

85 100

87 29.5 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

800

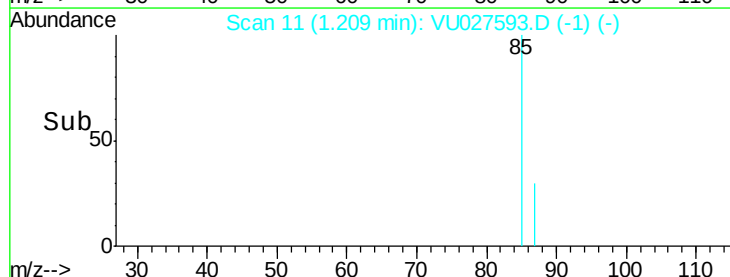
600

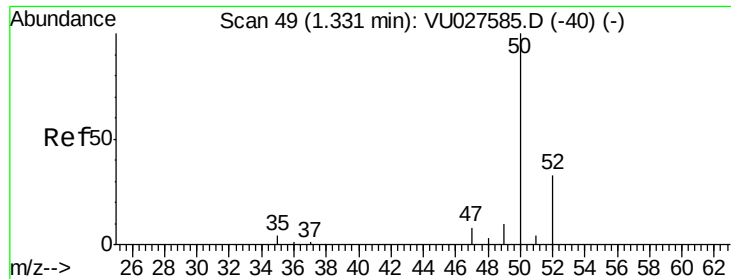
400

200

0

Time-->





#3

Chloromethane

Concen: 0.49 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027593.D

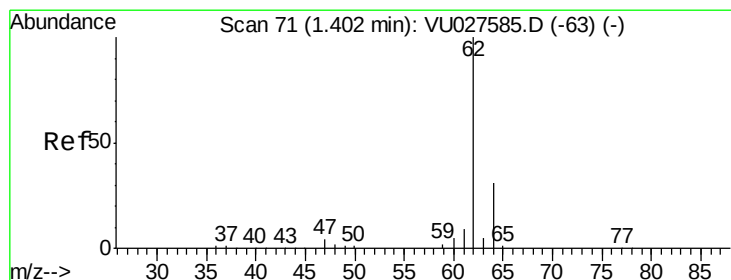
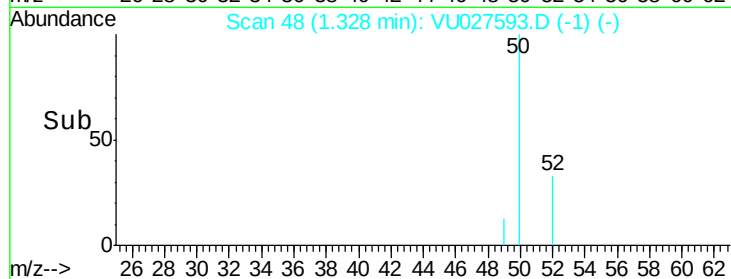
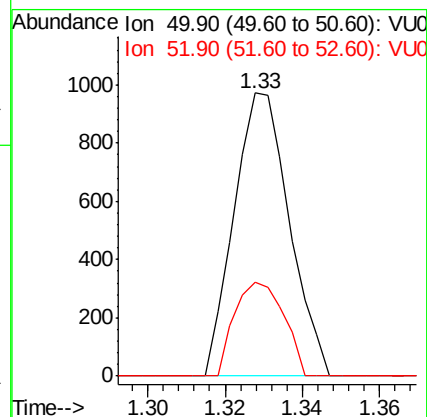
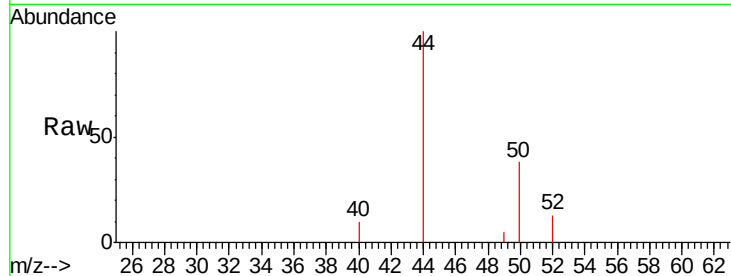
Acq: 11 Oct 2018 13:00

Tgt Ion:	50	Resp:	964
Ion Ratio	Lower	Upper	
50	100		
52	33.2	26.5	39.7

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

Manual Integrations
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#4

Vinyl Chloride

Concen: 0.46 ug/l

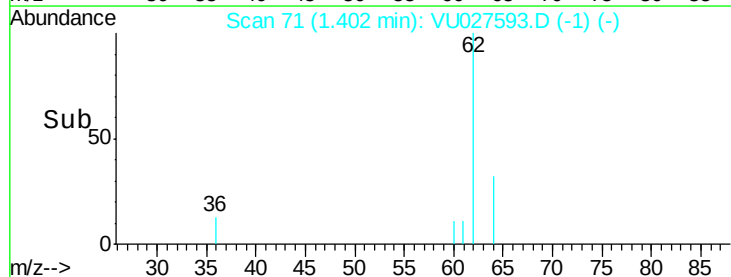
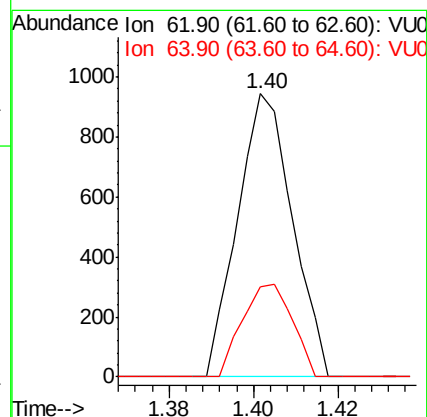
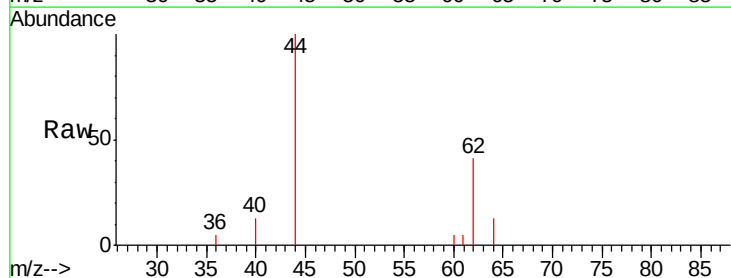
RT: 1.40 min Scan# 71

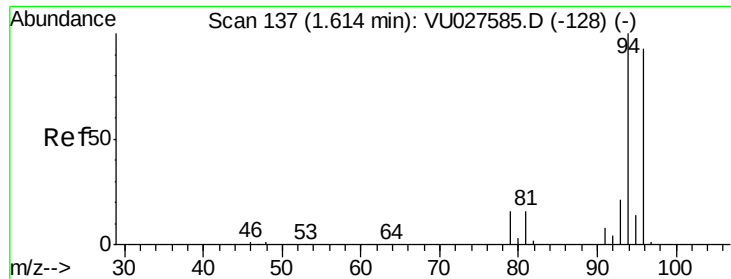
Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	62	Resp:	852
Ion Ratio	Lower	Upper	
62	100		
64	31.7	24.9	37.3





#5

Bromomethane

Concen: 0.70 ug/l

RT: 1.63 min Scan# 141

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 94 Resp: 706

Ion Ratio Lower Upper

94 100

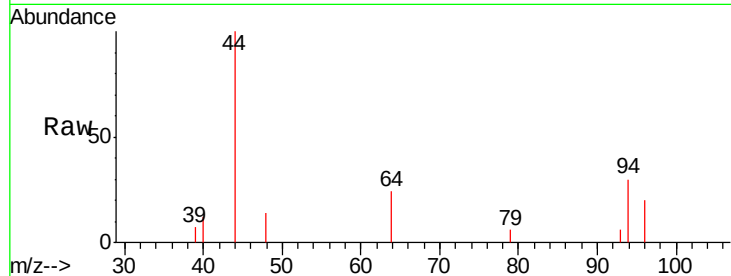
96 66.3 74.6 111.8#

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

600

500

400

300

200

100

0

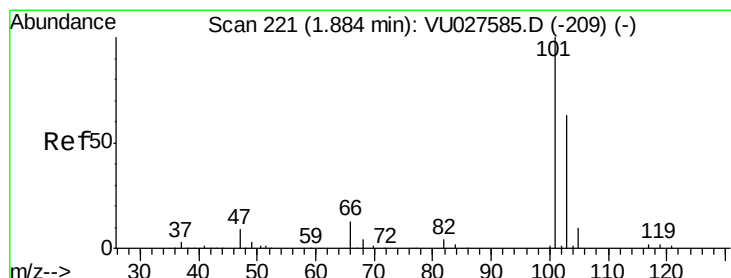
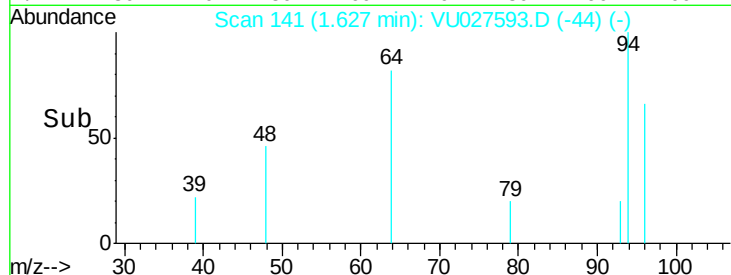
1.63

1.62

1.64

1.66

Time-->



#7

Trichlorofluoromethane

Concen: 0.47 ug/l

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU027593.D

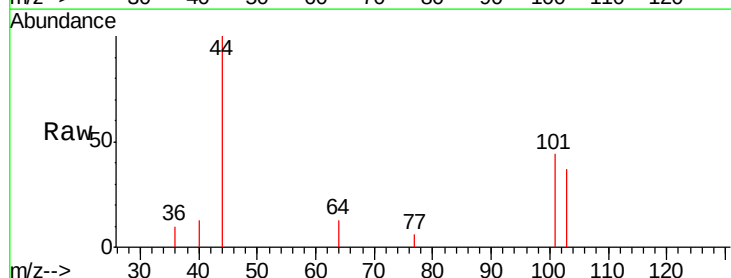
Acq: 11 Oct 2018 13:00

Tgt Ion: 101 Resp: 986

Ion Ratio Lower Upper

101 100

103 84.5 52.6 78.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

800

600

400

200

0

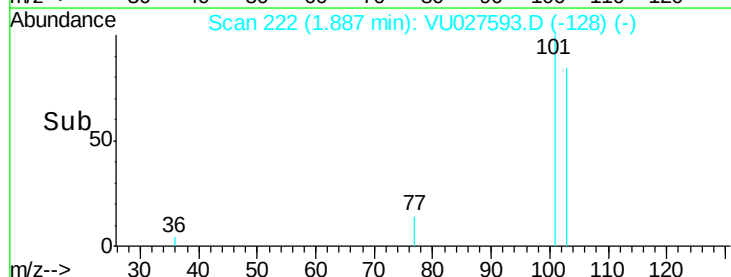
1.89

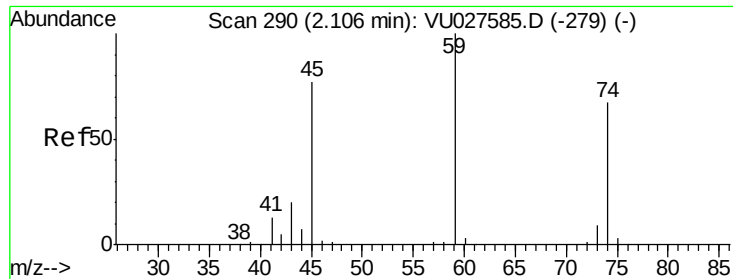
1.88

1.90

1.92

Time-->





#8

Diethyl Ether

Concen: 0.42 ug/l

RT: 2.11 min Scan# 290

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 74 Resp: 393

Ion Ratio Lower Upper

74 100

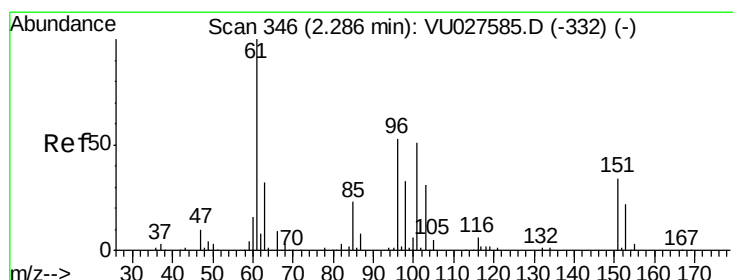
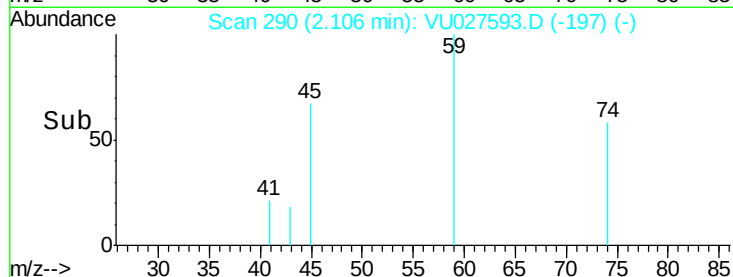
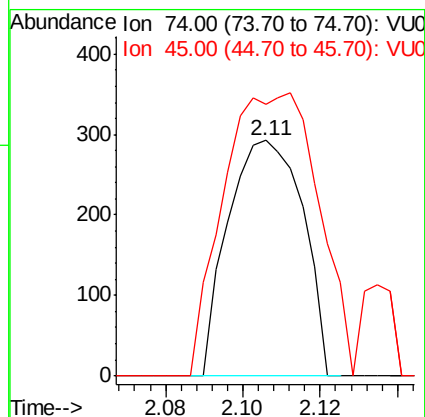
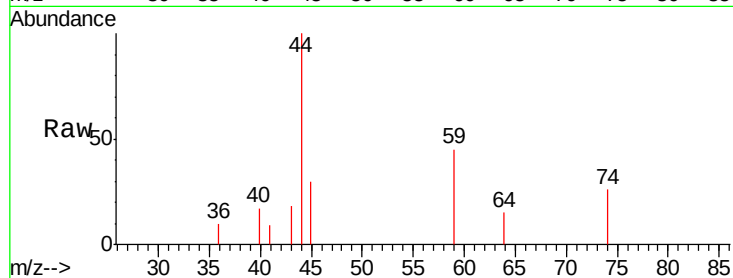
45 151.7 60.4 181.1

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#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.42 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

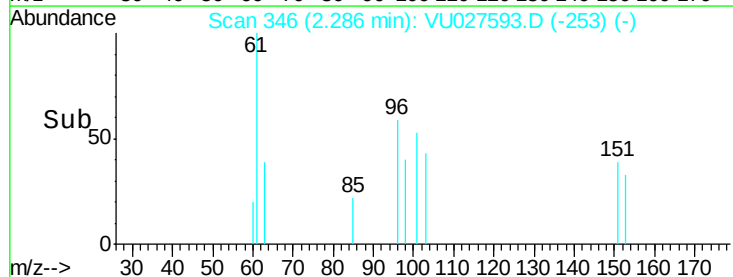
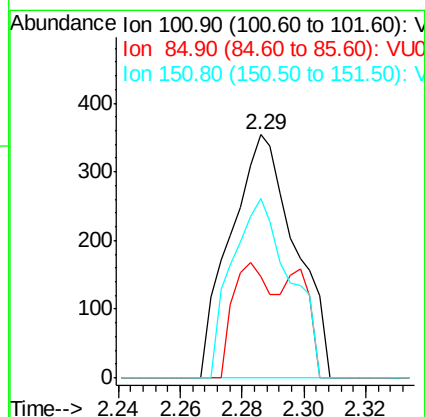
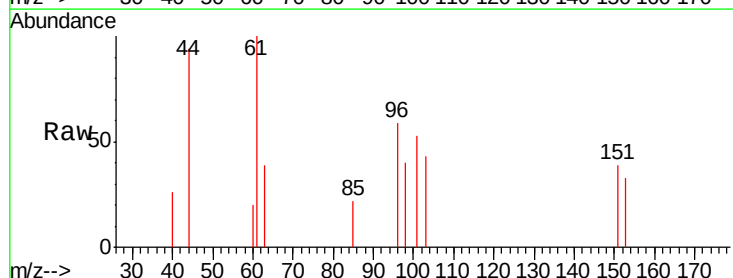
Tgt Ion: 101 Resp: 514

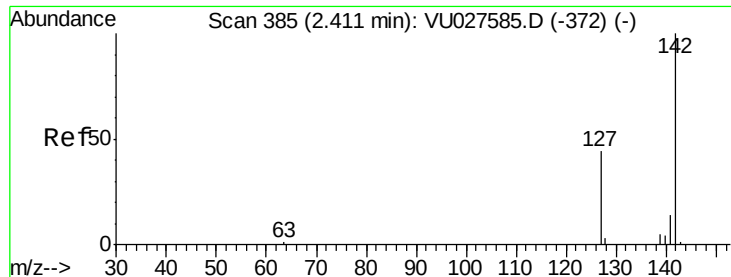
Ion Ratio Lower Upper

101 100

85 30.7 37.5 56.3#

151 66.7 55.6 83.4





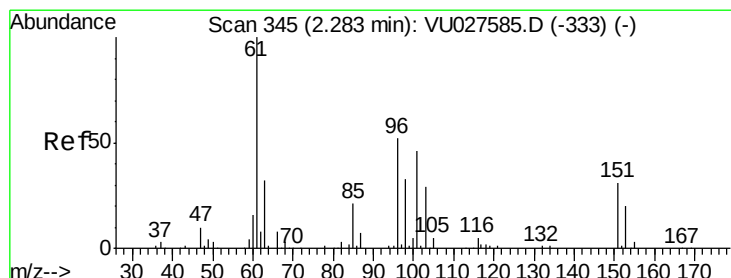
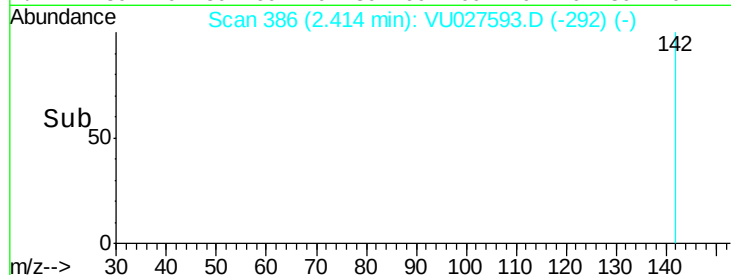
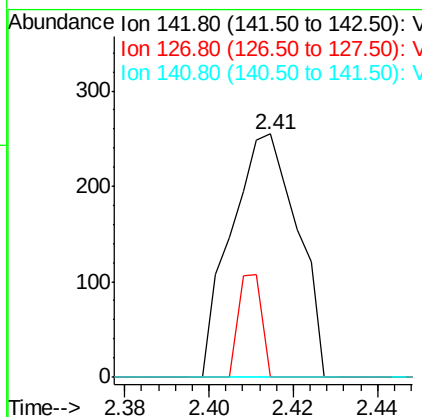
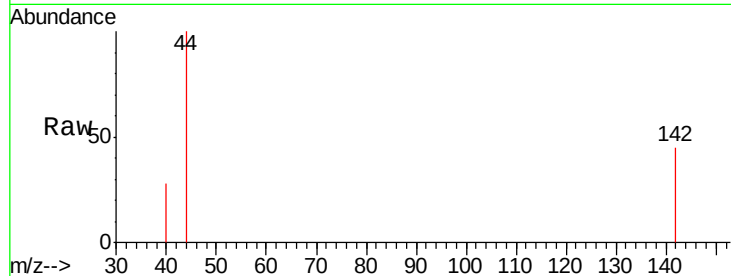
#10
Methyl Iodide
Concen: 3.53 ug/l
RT: 2.41 min Scan# 386
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 142 Resp: 277
Ion Ratio Lower Upper
142 100
127 14.8 36.3 54.5#
141 0.0 11.6 17.4#

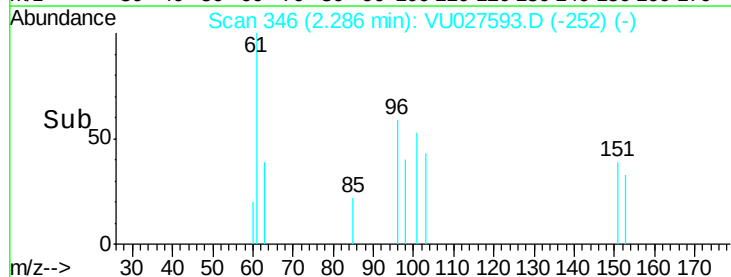
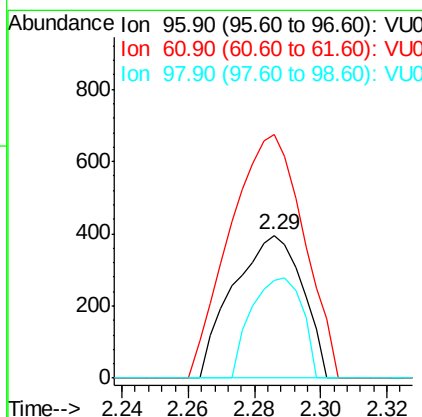
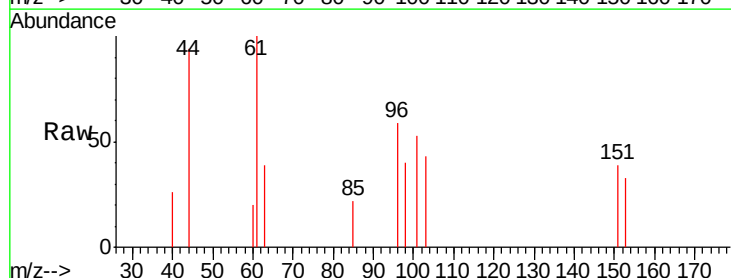
Manual Integrations
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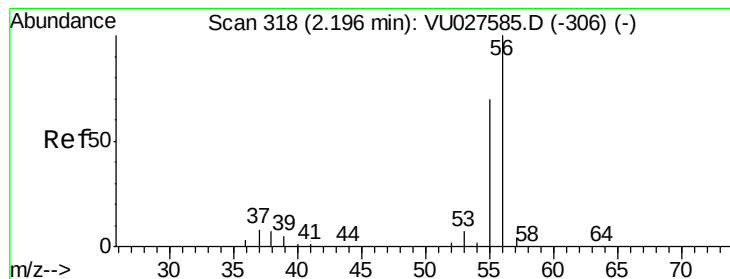
MMDadoda
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#12
1,1-Dichloroethene
Concen: 0.48 ug/l
RT: 2.29 min Scan# 346
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 96 Resp: 575
Ion Ratio Lower Upper
96 100
61 170.6 153.0 229.6
98 68.4 49.3 73.9





#13

Acrolein

Concen: 2.51 ug/l

RT: 2.20 min Scan# 319

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 56 Resp: 874

Ion Ratio Lower Upper

56 100

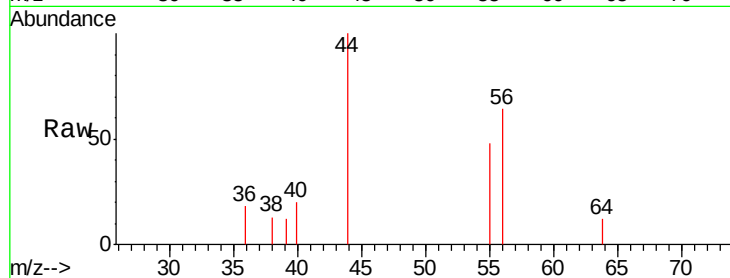
55 74.6 57.7 86.5

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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

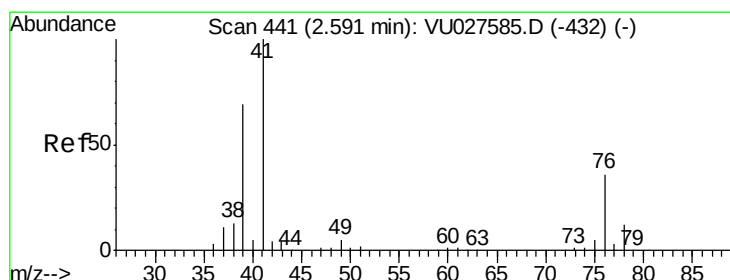
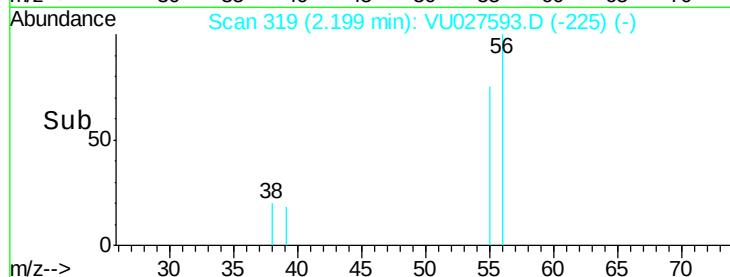
2.20

400

200

0

Time-->



#14

Allyl chloride

Concen: 0.61 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

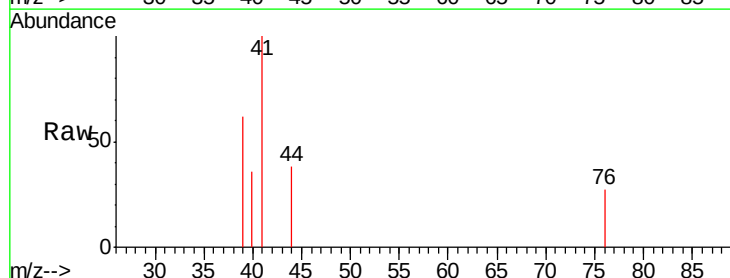
Tgt Ion: 41 Resp: 1772

Ion Ratio Lower Upper

41 100

39 47.1 51.8 77.8#

76 17.1 25.9 38.9#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

2.59

1000

800

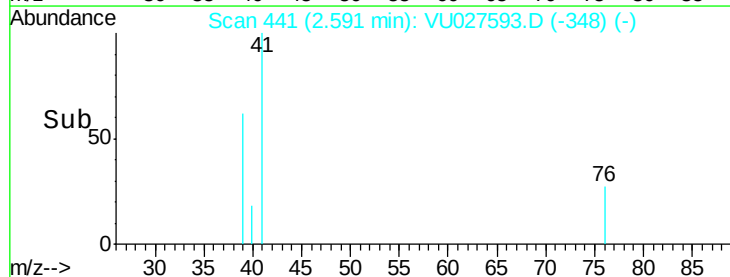
600

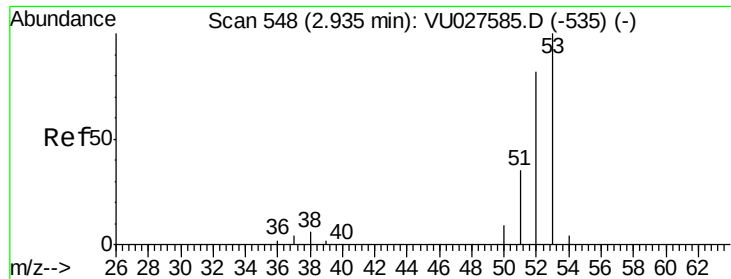
400

200

0

Time-->





#15

Acrylonitrile

Concen: 2.09 ug/l

RT: 2.95 min Scan# 551

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

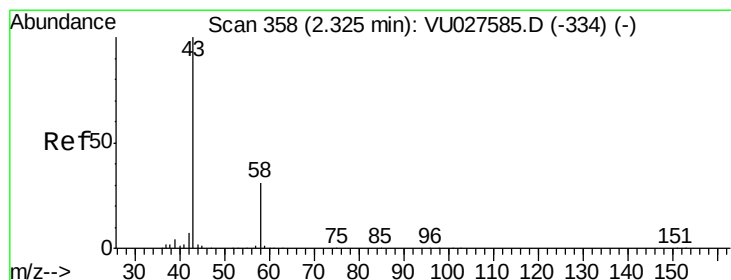
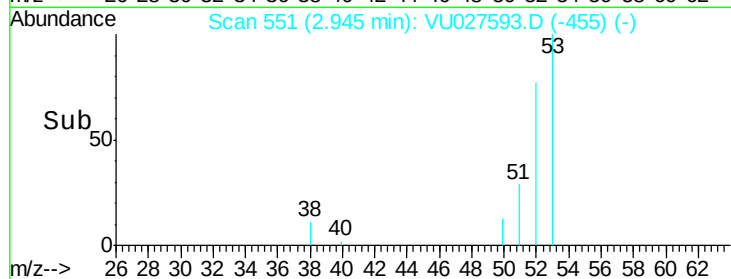
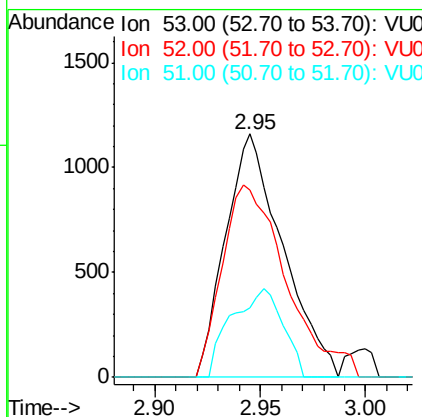
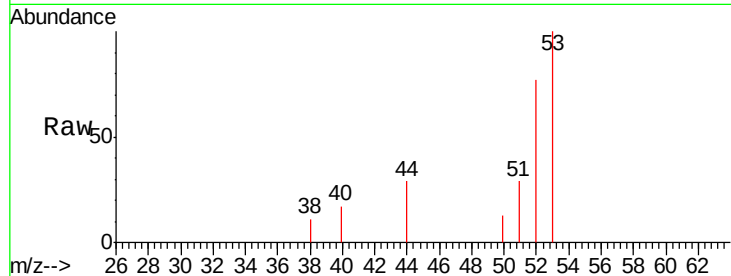
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	53	Resp:	2179
Ion	Ratio	Lower	Upper
53	100		
52	88.9	66.5	99.7
51	32.8	27.6	41.4

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#16

Acetone

Concen: 2.71 ug/l

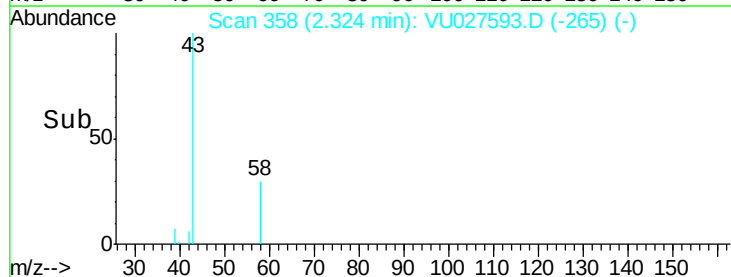
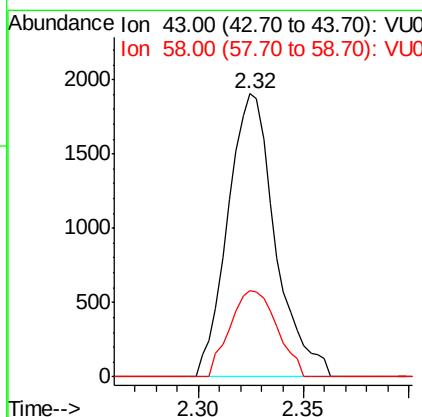
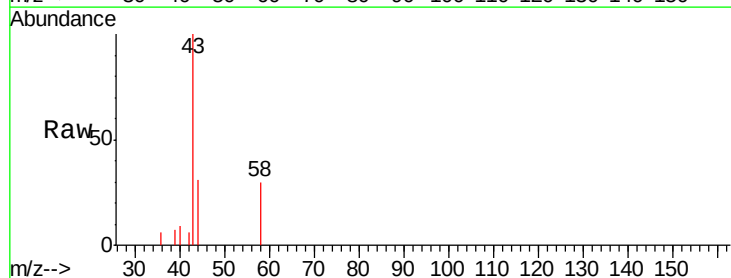
RT: 2.32 min Scan# 358

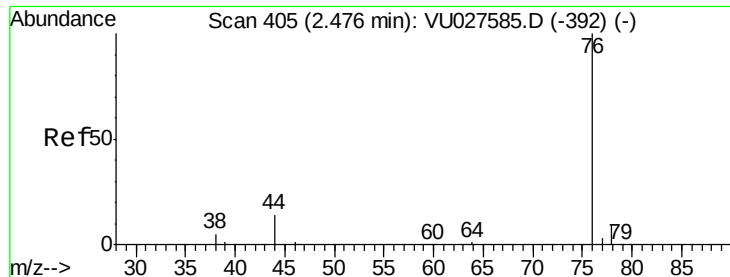
Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	43	Resp:	2979
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.2	36.4





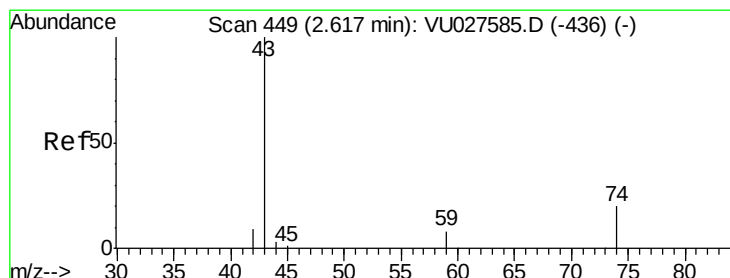
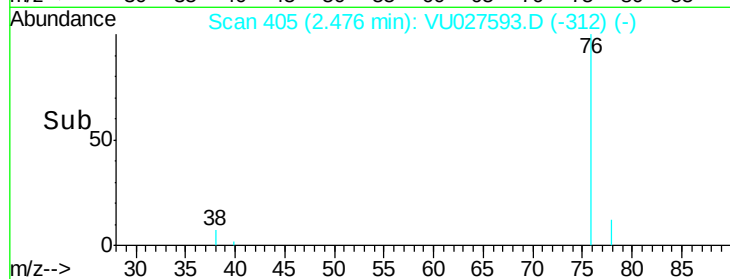
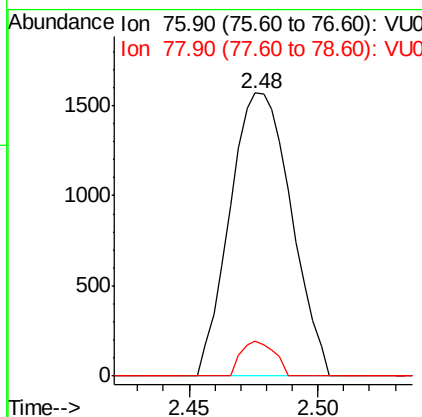
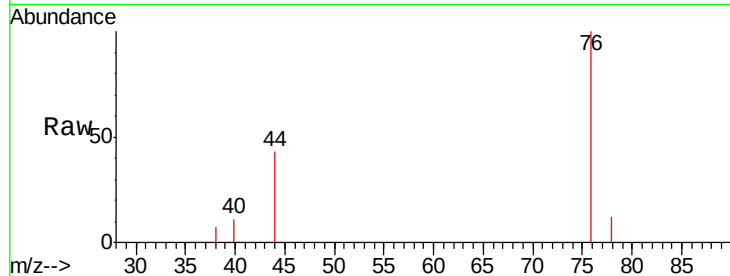
#17
Carbon Disulfide
Concen: 0.64 ug/l
RT: 2.48 min Scan# 405
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 76 Resp: 2600
Ion Ratio Lower Upper
76 100
78 12.2 7.3 10.9#

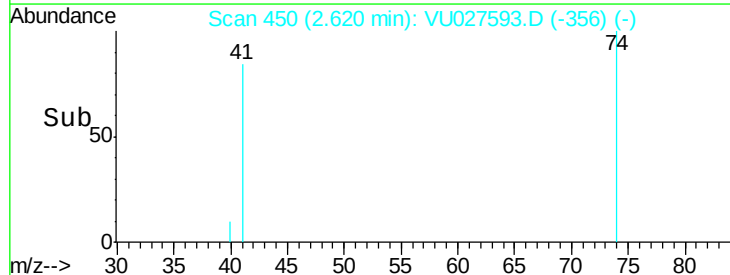
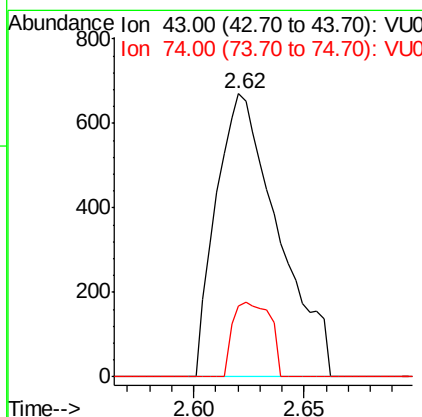
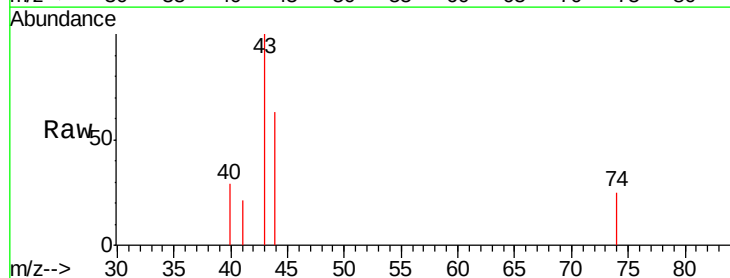
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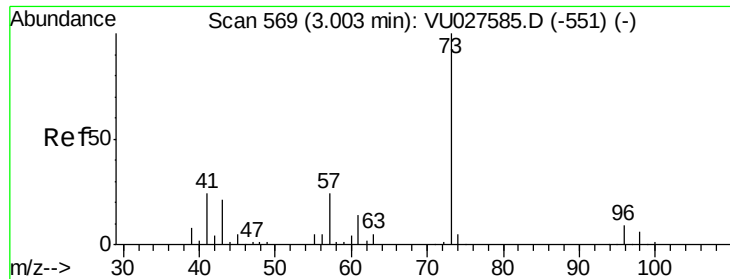
MMDadoda
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#18
Methyl Acetate
Concen: 0.47 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
74 16.1 16.5 24.7#





#19

Methyl tert-butyl Ether

Concen: 0.46 ug/l

RT: 3.01 min Scan# 570

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion: 73 Resp: 2102

Ion Ratio Lower Upper

73 100

57 27.8 20.0 30.0

Instrument :

MSVOA_U

ClientSampleId :

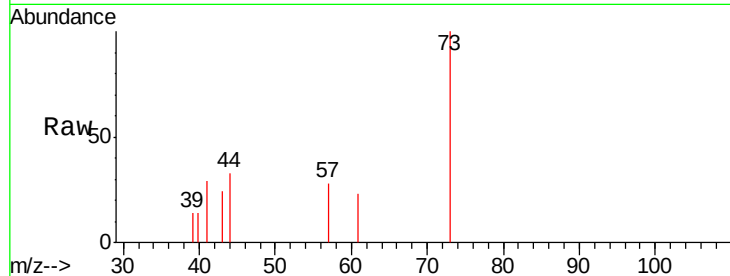
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Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

3.01

800

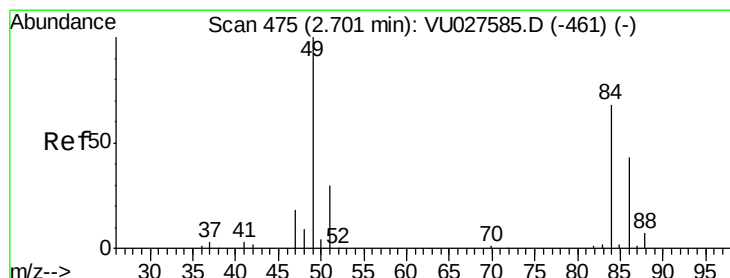
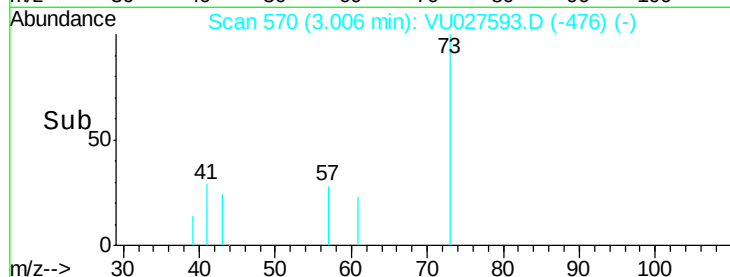
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.49 ug/l

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion: 84 Resp: 769

Ion Ratio Lower Upper

84 100

49 134.4 120.5 180.7

51 42.4 35.1 52.7

86 69.5 50.5 75.7

Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0

1200

1000

800

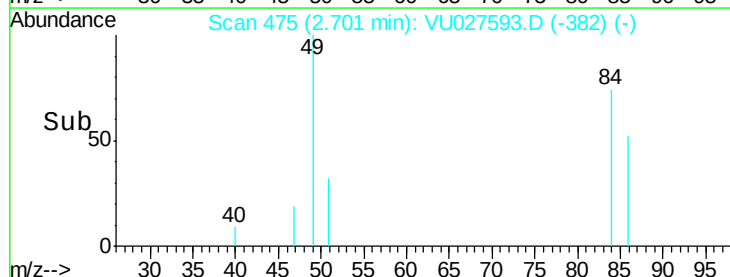
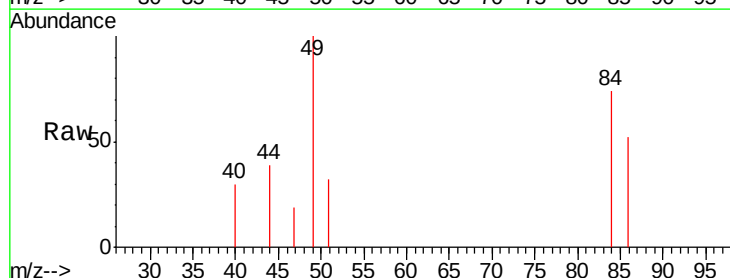
600

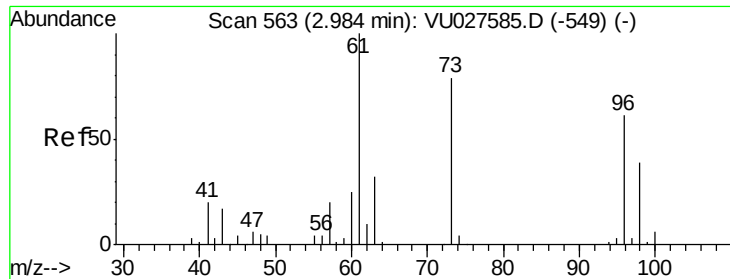
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.49 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

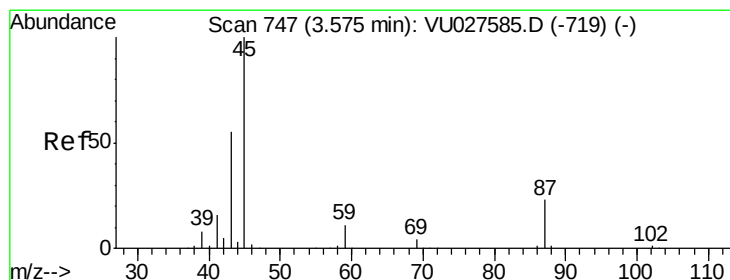
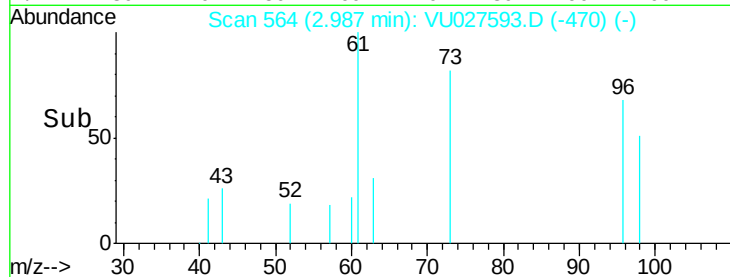
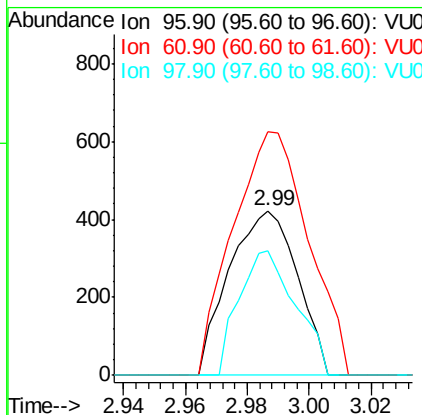
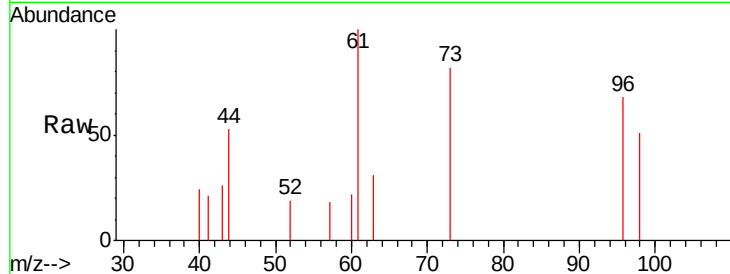
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	96	Resp:	649
Ion	Ratio	Lower	Upper
96	100		
61	148.1	129.4	194.2
98	75.8	51.2	76.8

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#22

Diisopropyl ether

Concen: 0.45 ug/l

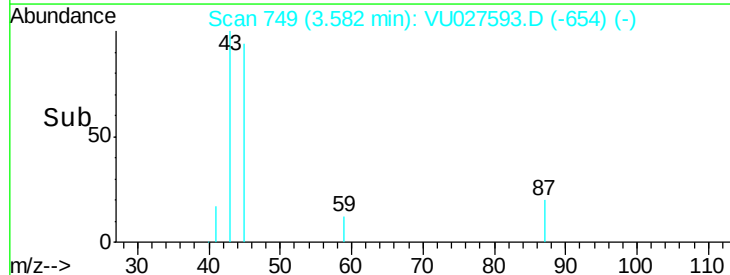
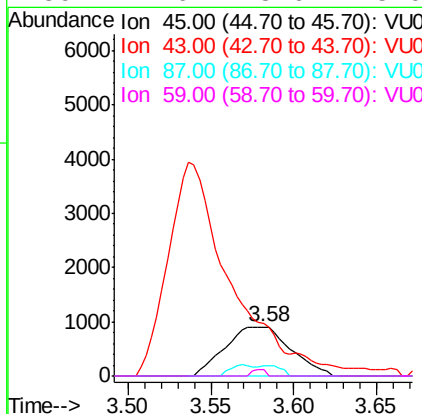
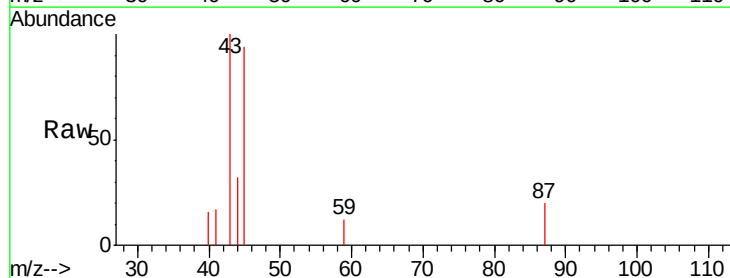
RT: 3.58 min Scan# 749

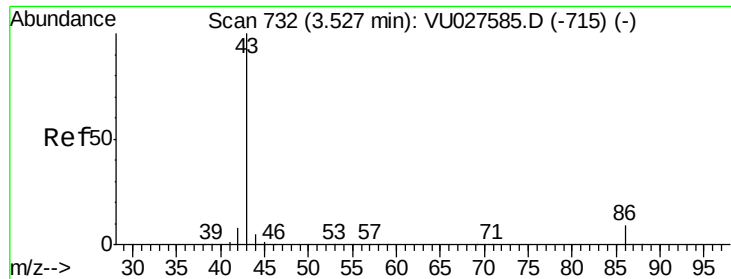
Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	45	Resp:	2484
Ion	Ratio	Lower	Upper
45	100		
43	88.2	43.4	65.2#
87	21.0	17.5	26.3
59	12.6	8.6	13.0





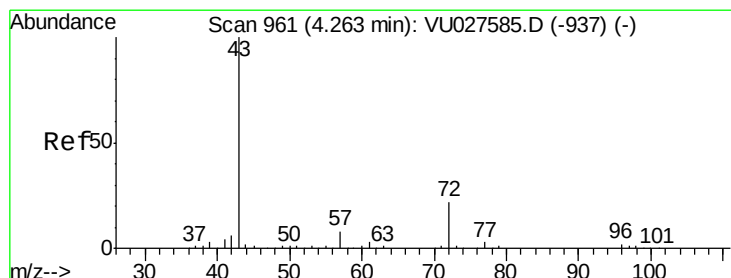
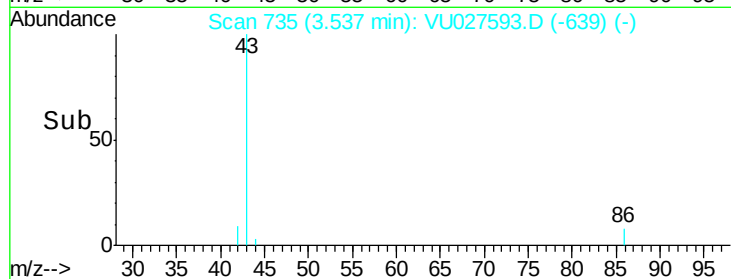
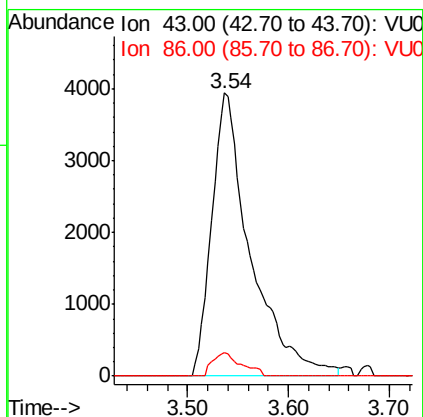
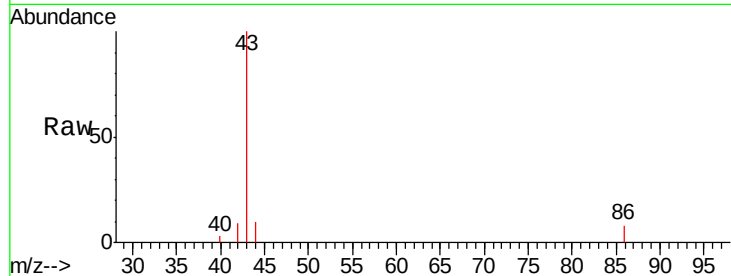
#23
 Vinyl Acetate
 Concen: 2.24 ug/l
 RT: 3.54 min Scan# 735
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 43 Resp: 10523
 Ion Ratio Lower Upper
 43 100
 86 8.2 7.0 10.4

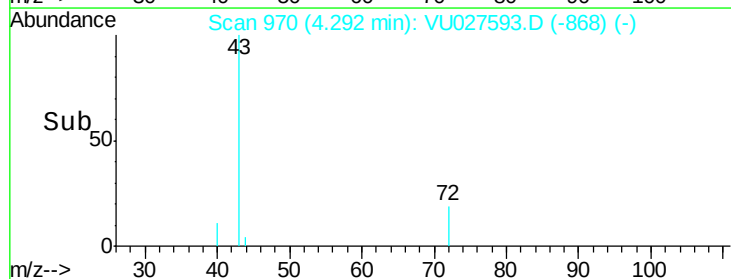
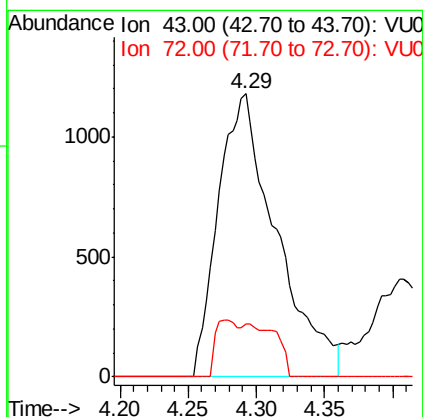
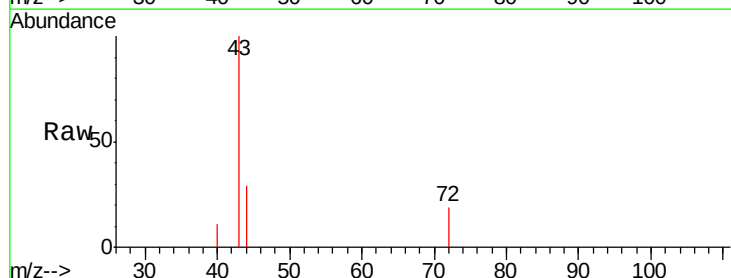
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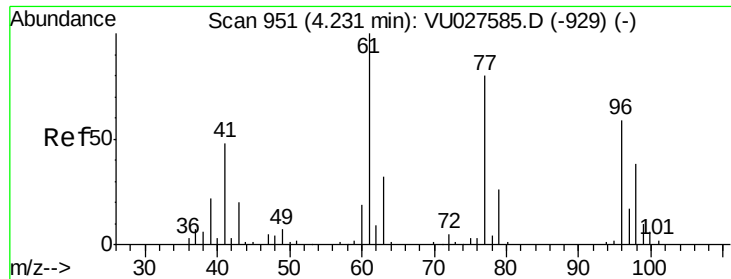
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#25
 2-Butanone
 Concen: 2.24 ug/l
 RT: 4.29 min Scan# 970
 Delta R.T. 0.03 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 43 Resp: 3490
 Ion Ratio Lower Upper
 43 100
 72 18.7 17.8 26.6





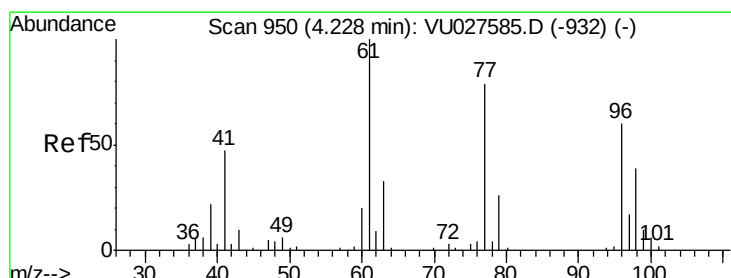
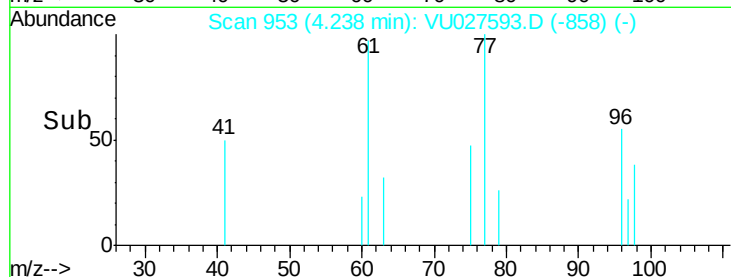
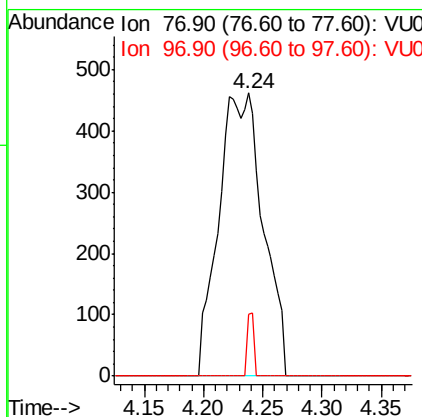
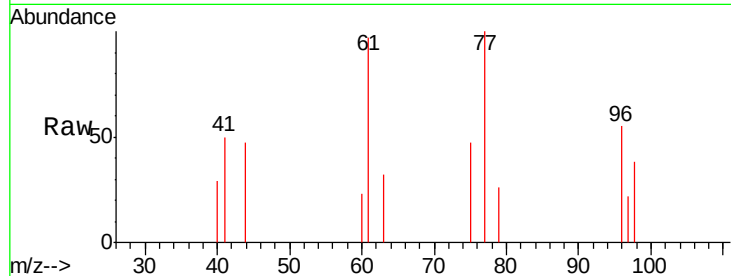
#26
 2,2-Dichloropropane
 Concen: 0.51 ug/l m
 RT: 4.24 min Scan# 953
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 77 Resp: 1205
 Ion Ratio Lower Upper
 77 100
 97 3.2 10.4 31.1#

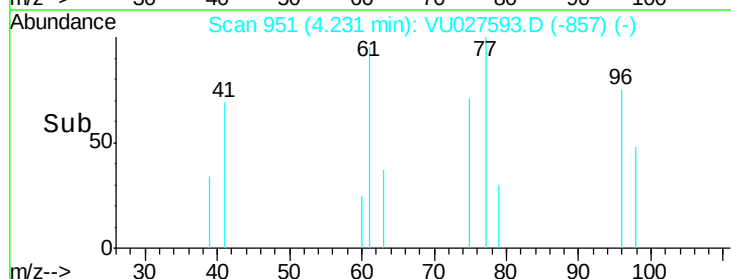
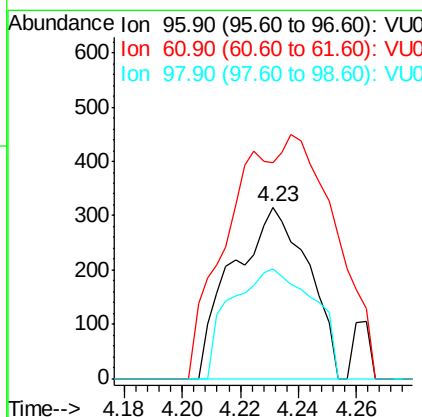
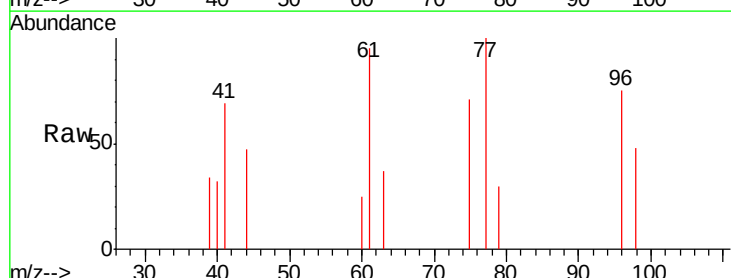
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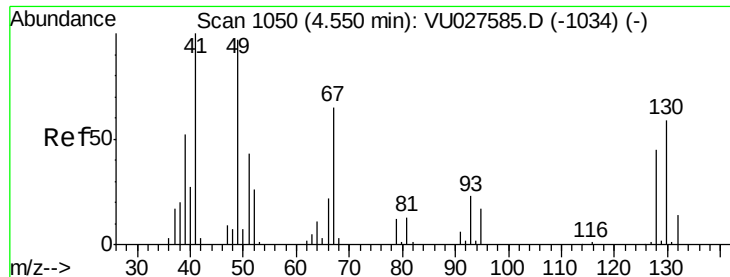
MMDadoda
 10/16/2018 2:22:58 PM



#27
 cis-1,2-Dichloroethene
 Concen: 0.39 ug/l
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 96 Resp: 571
 Ion Ratio Lower Upper
 96 100
 61 91.4 0.0 343.8
 98 70.1 0.0 129.0





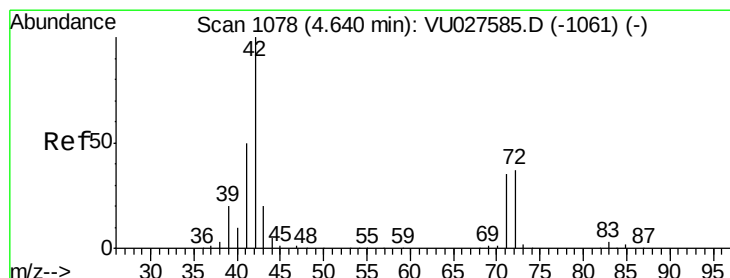
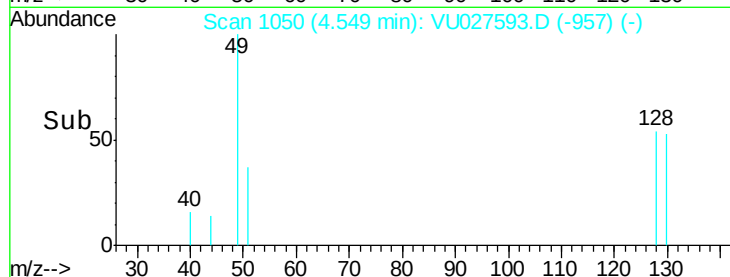
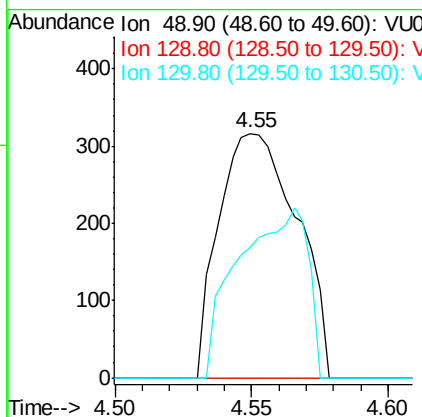
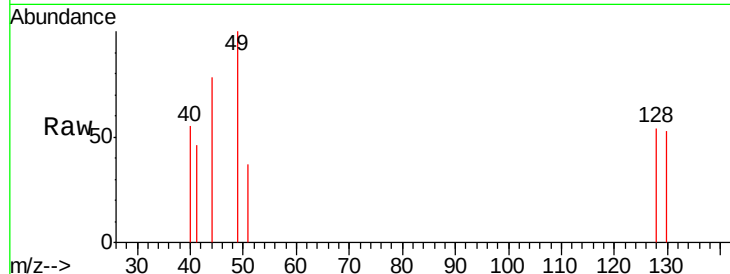
#28
Bromochloromethane
Concen: 0.43 ug/l
RT: 4.55 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 49 Resp: 630
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 61.9 46.1 69.1

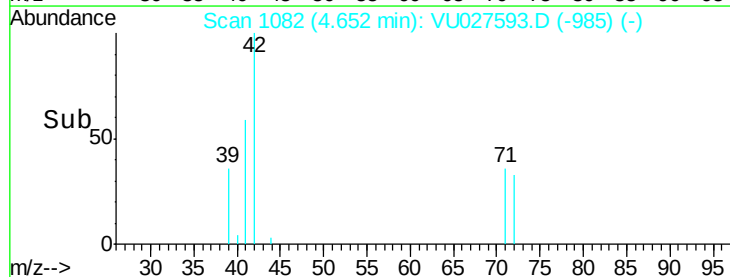
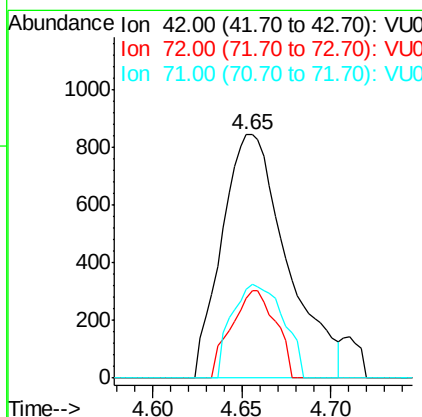
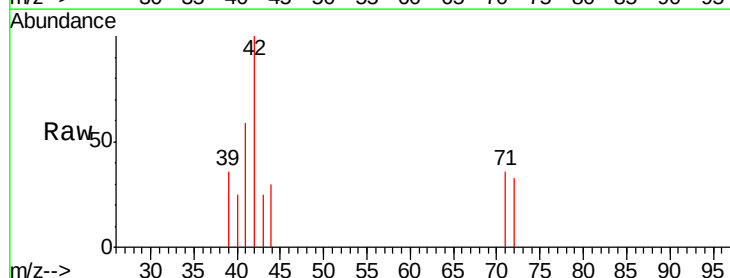
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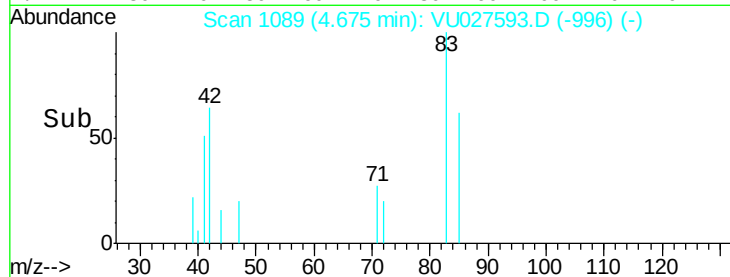
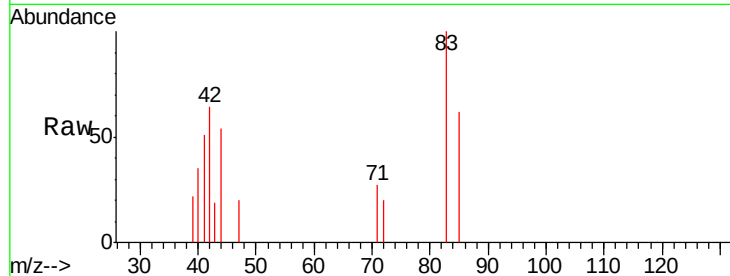
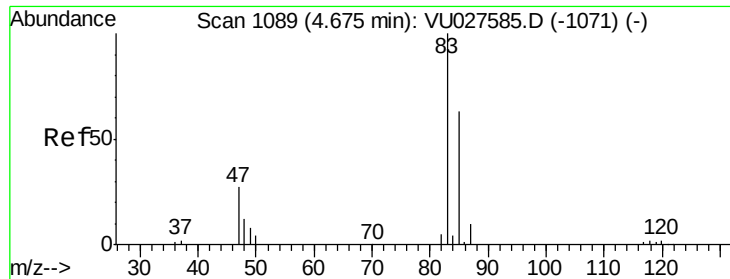
MMDadoda
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#29
Tetrahydrofuran
Concen: 2.19 ug/l
RT: 4.65 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 42 Resp: 2140
Ion Ratio Lower Upper
42 100
72 24.5 30.1 45.1#
71 30.5 27.7 41.5





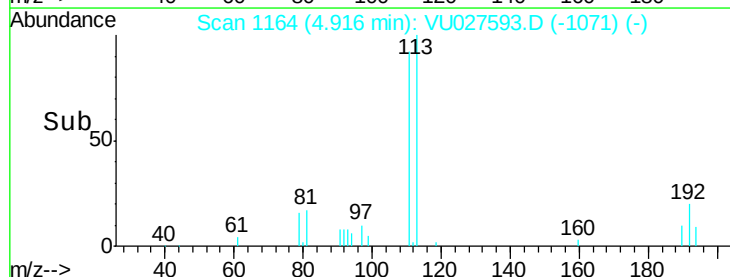
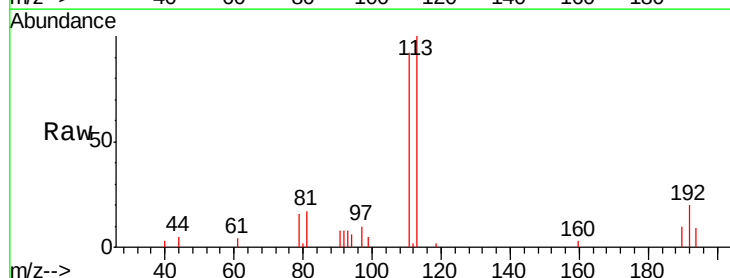
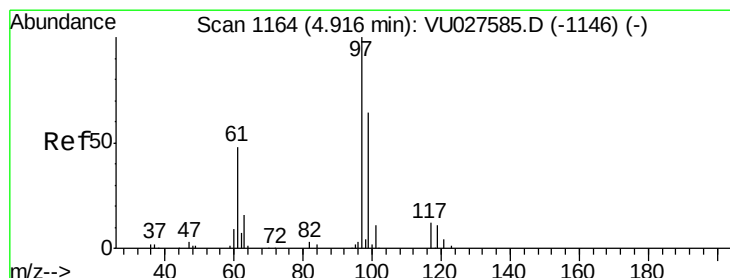
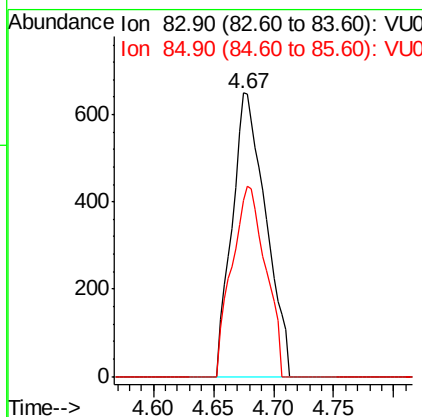
#30
Chloroform
Concen: 0.48 ug/l m
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 83 Resp: 1265
Ion Ratio Lower Upper
83 100
85 62.4 51.8 77.6

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

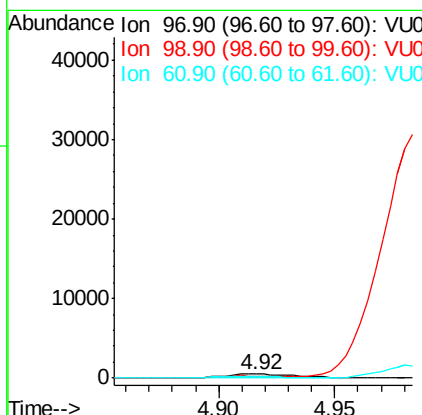
Manual Integrations
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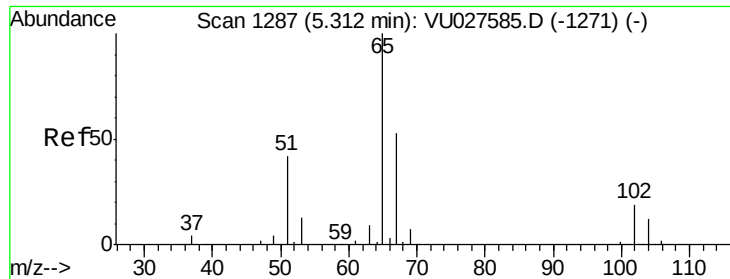
MMDadoda
10/16/2018 2:22:58 PM



#32
1,1,1-Trichloroethane
Concen: 0.46 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 97 Resp: 1020
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 46.3 39.6 59.4





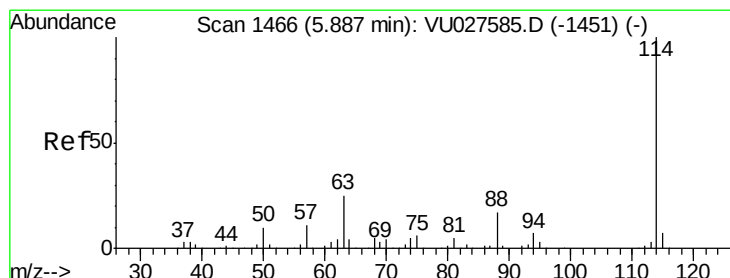
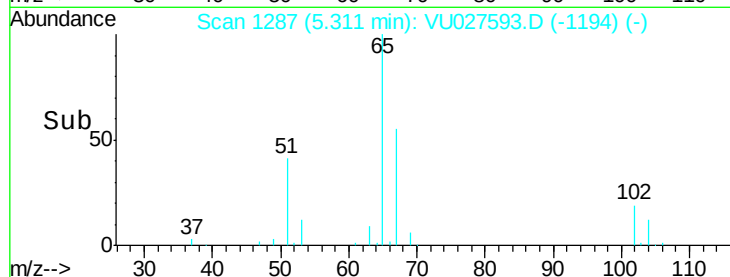
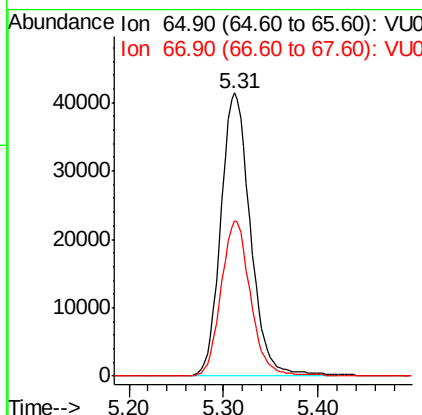
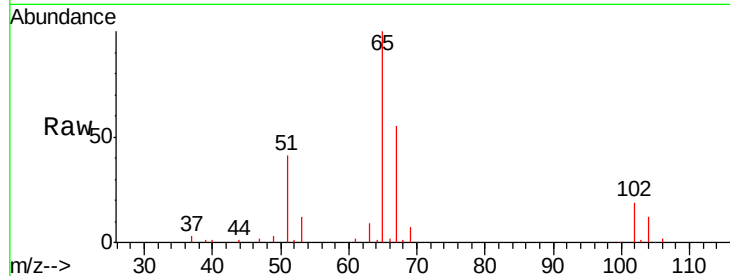
#33
 1,2-Dichloroethane-d4
 Concen: 50.07 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 65 Resp: 90150
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 107.8

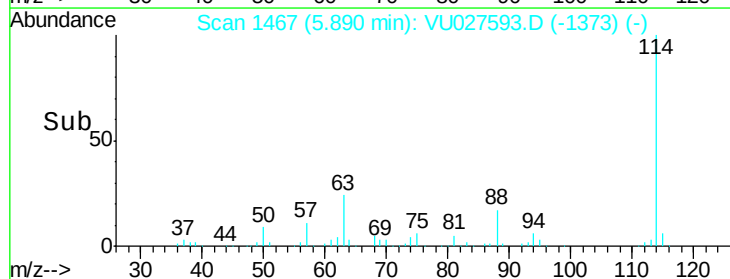
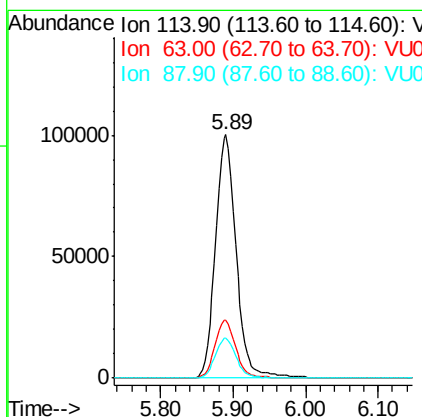
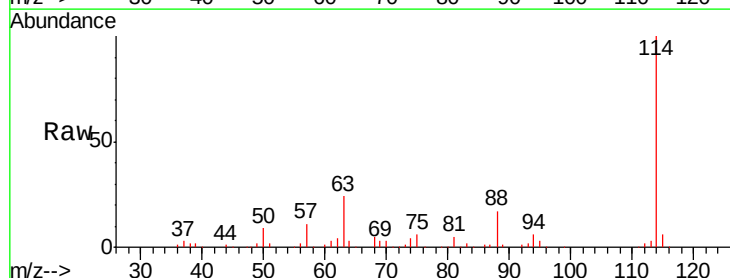
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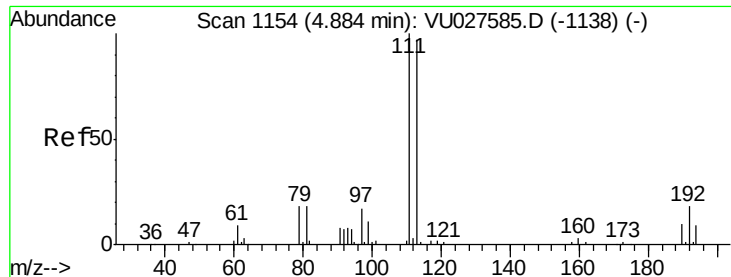
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 114 Resp: 198788
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 50.2
 88 16.6 0.0 33.8





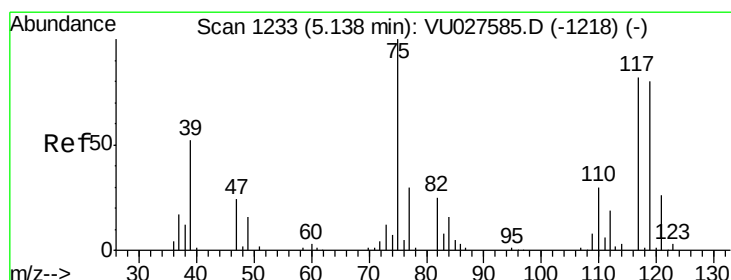
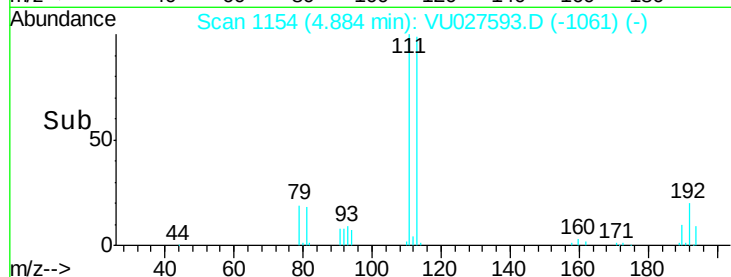
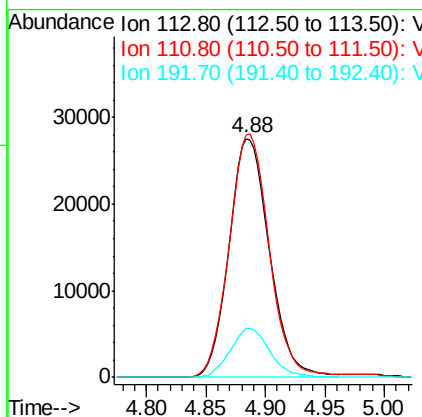
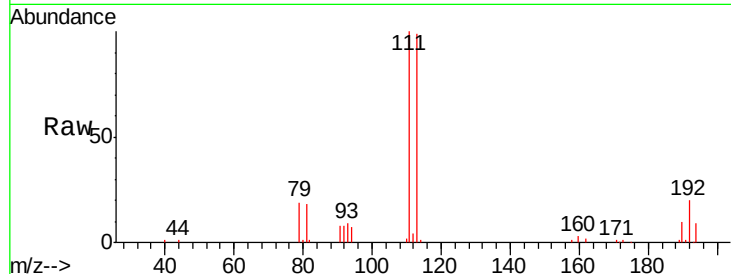
#35
 Dibromofluoromethane
 Concen: 49.30 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	83.1	124.7
192	20.1	15.4	23.0

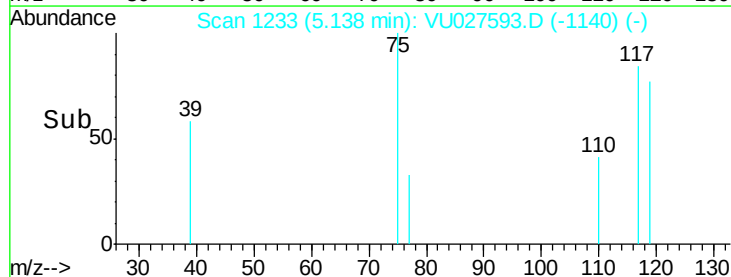
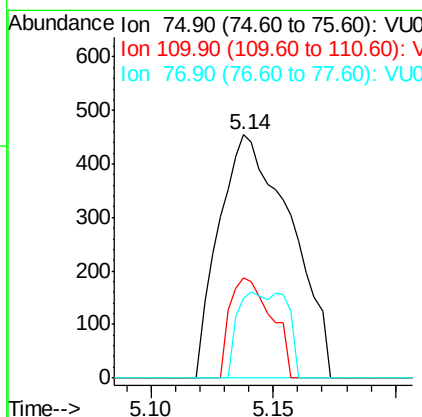
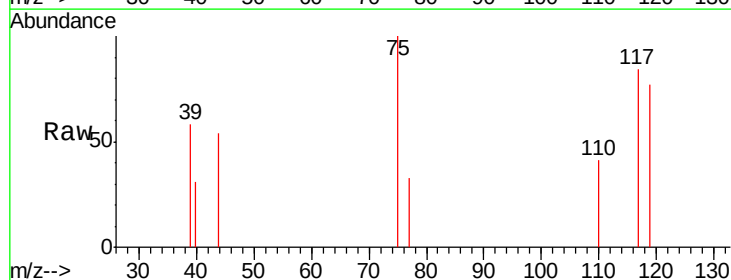
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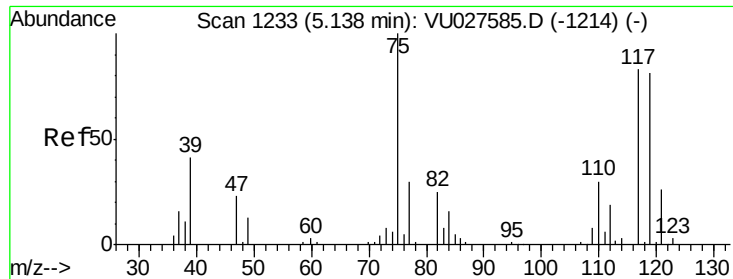
MMDadoda
 10/16/2018 2:22:58 PM



#36
 1,1-Dichloropropene
 Concen: 0.46 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	23.8	15.5	46.5
77	24.1	25.4	38.0





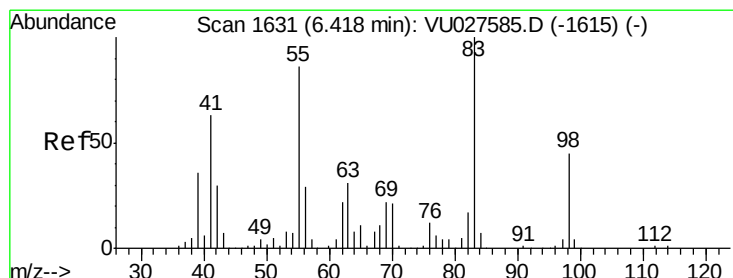
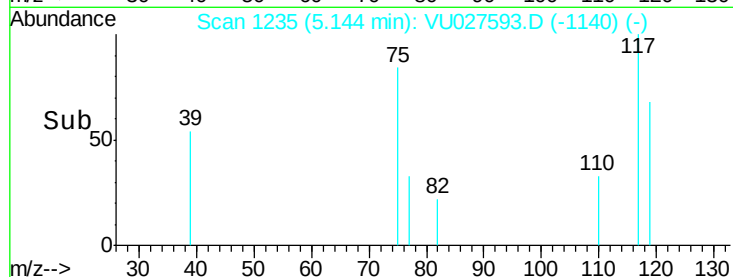
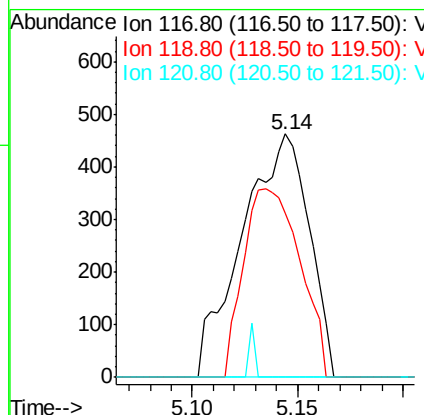
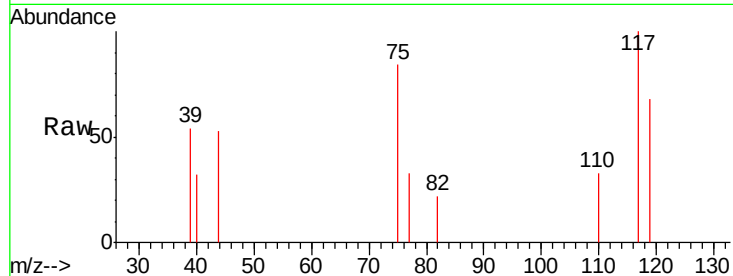
#38
Carbon Tetrachloride
Concen: 0.55 ug/l
RT: 5.14 min Scan# 1235
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 117 Resp: 1018
Ion Ratio Lower Upper
117 100
119 67.6 74.5 111.7#
121 0.0 24.6 37.0#

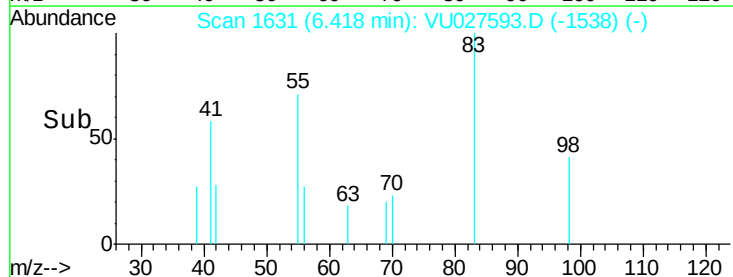
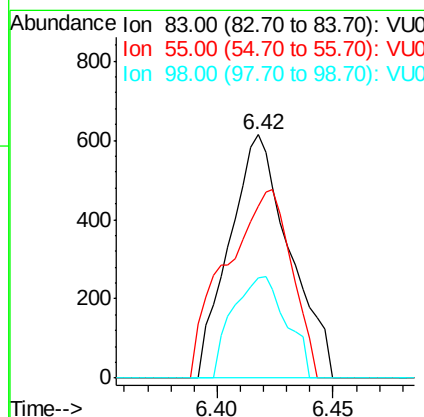
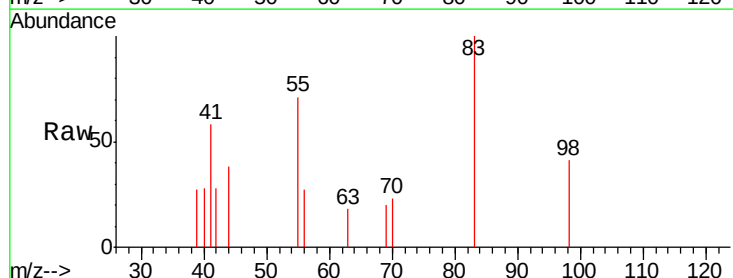
Manual Integrations
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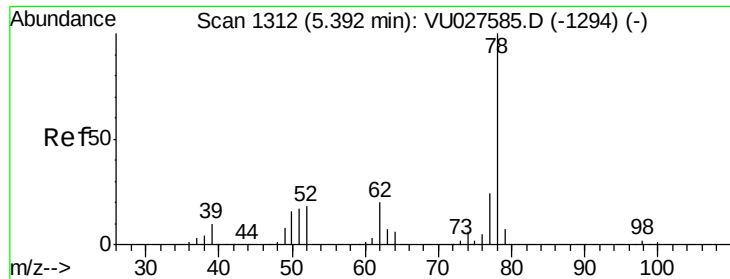
MMDadoda
10/16/2018 2:22:58 PM



#39
Methylcyclohexane
Concen: 0.49 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 83 Resp: 1105
Ion Ratio Lower Upper
83 100
55 70.7 71.1 106.7#
98 41.4 36.3 54.5





#40

Benzene

Concen: 0.47 ug/l

RT: 5.40 min Scan# 1314

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 78 Resp: 2876

Ion Ratio Lower Upper

78 100

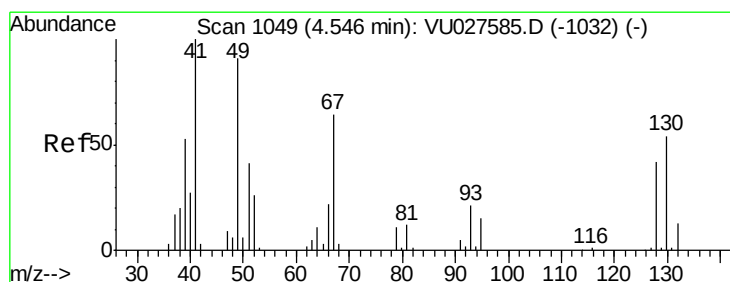
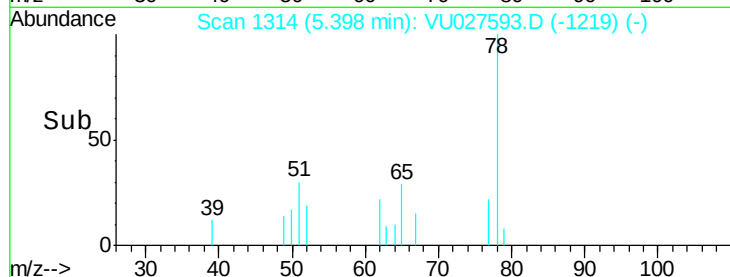
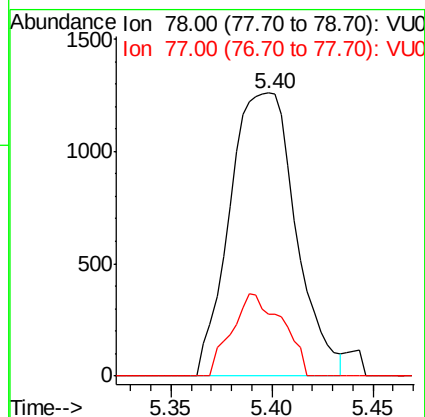
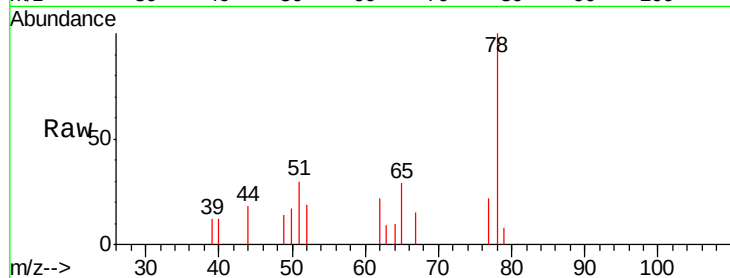
77 21.8 19.3 28.9

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#41

Methacrylonitrile

Concen: 0.83 ug/l m

RT: 4.57 min Scan# 1057

Delta R.T. 0.03 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion: 41 Resp: 370

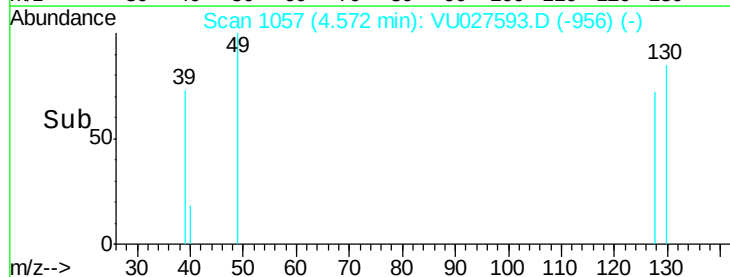
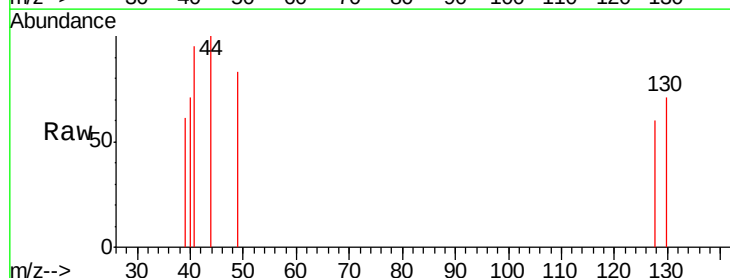
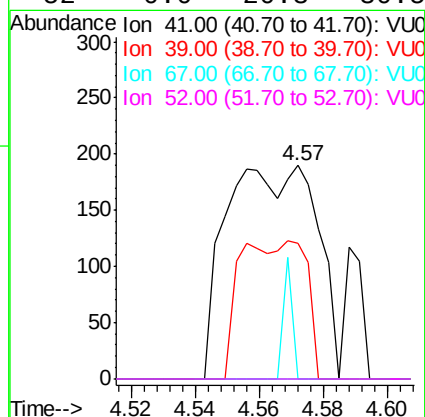
Ion Ratio Lower Upper

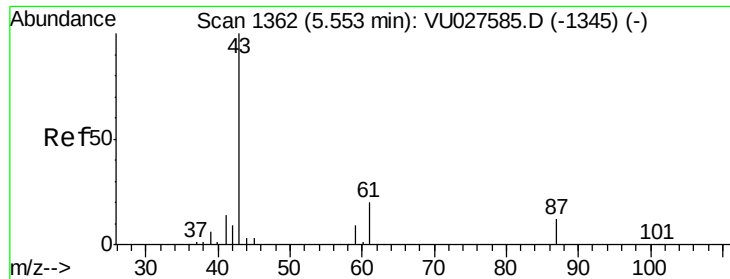
41 100

39 23.5 41.1 61.7#

67 5.7 50.4 75.6#

52 0.0 20.3 30.5#





#43

Isopropyl Acetate

Concen: 0.41 ug/l

RT: 5.56 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

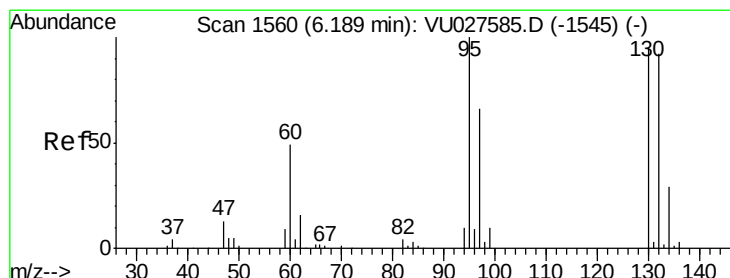
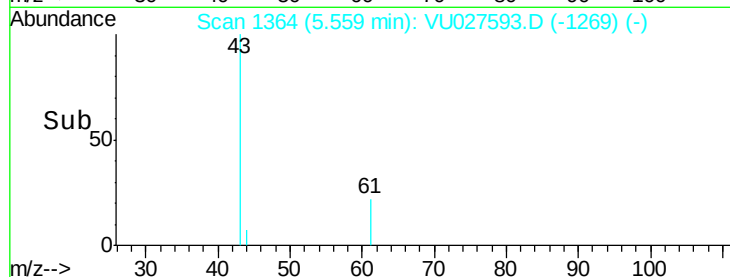
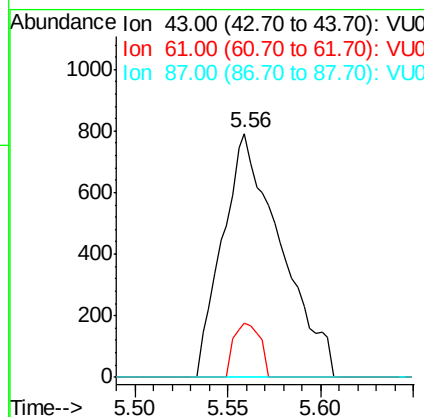
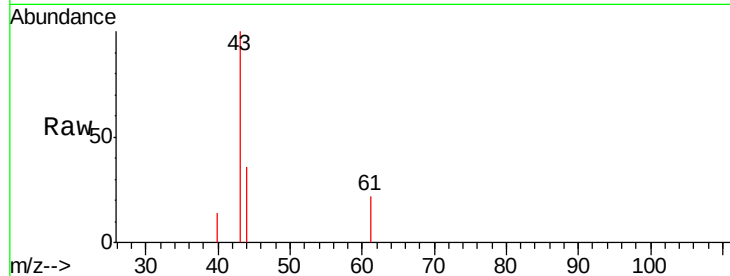
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	43	Resp:	1729
Ion	Ratio	Lower	Upper
43	100		
61	9.9	15.3	22.9#
87	0.0	8.6	13.0#

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#44

Trichloroethene

Concen: 0.43 ug/l

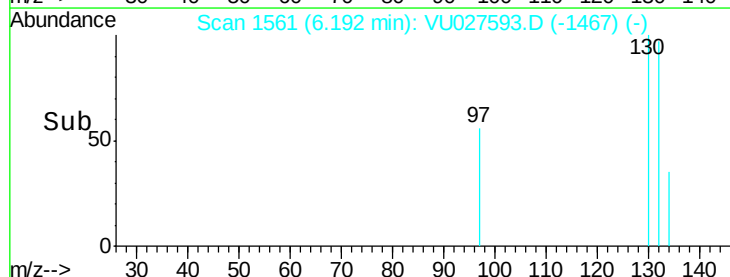
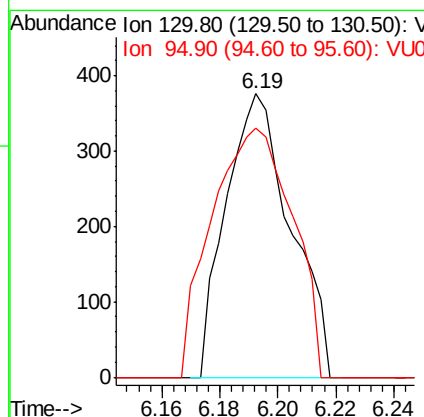
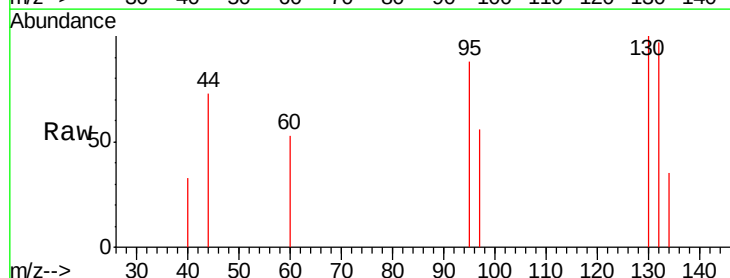
RT: 6.19 min Scan# 1561

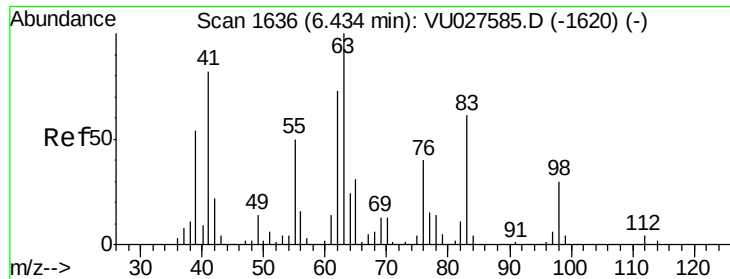
Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	130	Resp:	582
Ion	Ratio	Lower	Upper
130	100		
95	88.0	0.0	207.0





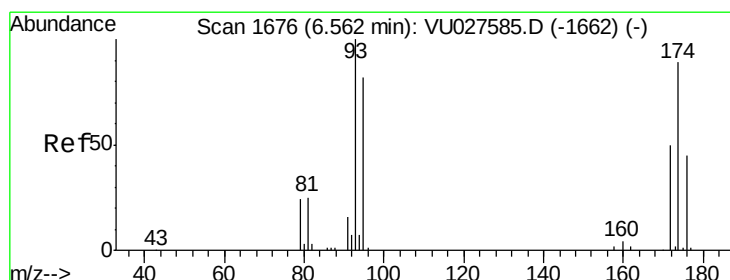
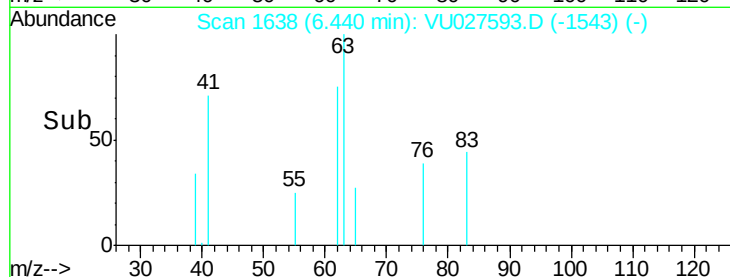
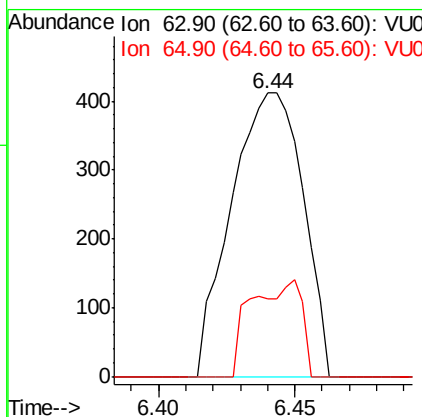
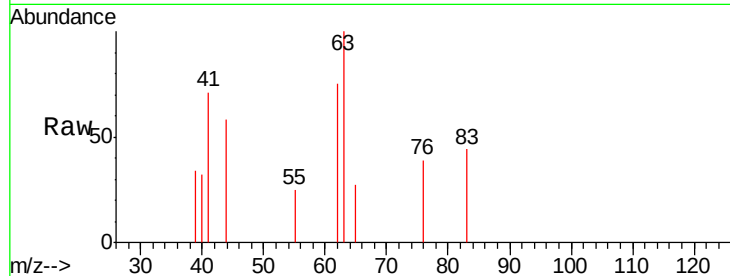
#45
 1,2-Dichloropropane
 Concen: 0.43 ug/l
 RT: 6.44 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 63 Resp: 753
 Ion Ratio Lower Upper
 63 100
 65 27.4 26.0 39.0

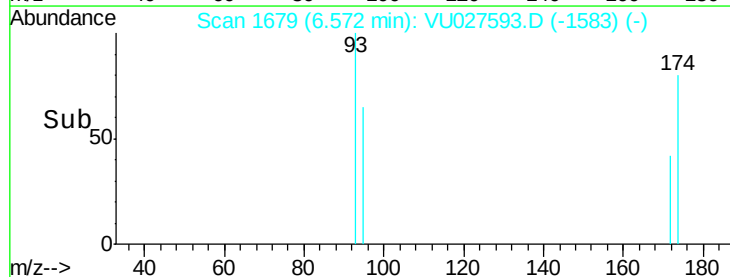
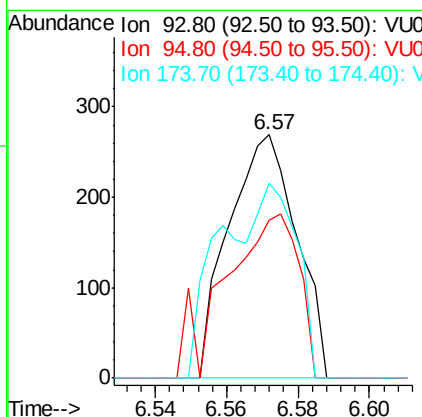
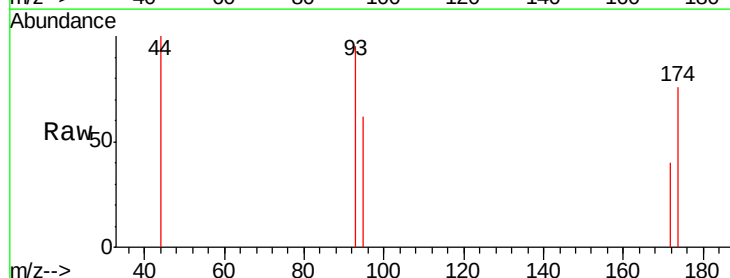
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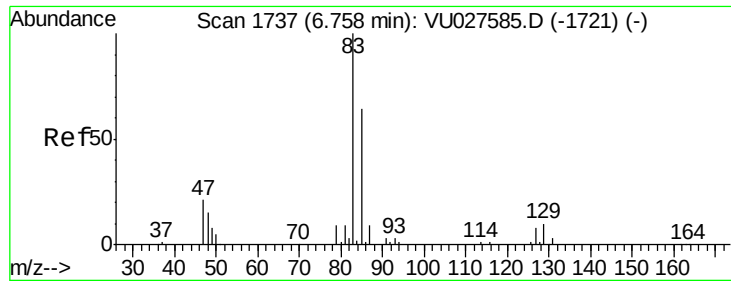
MMDadoda
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#46
 Dibromomethane
 Concen: 0.35 ug/l
 RT: 6.57 min Scan# 1679
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 93 Resp: 353
 Ion Ratio Lower Upper
 93 100
 95 72.8 66.5 99.7
 174 49.0 72.5 108.7#





#47

Bromodichloromethane

Concen: 0.41 ug/l

RT: 6.76 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

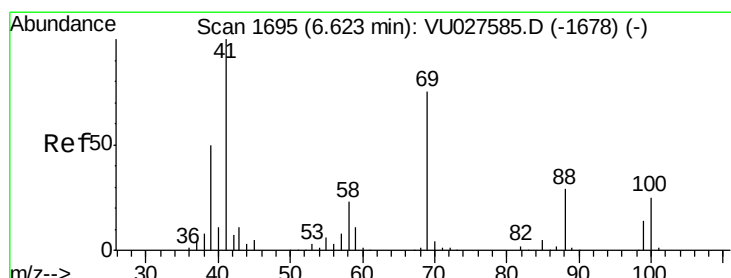
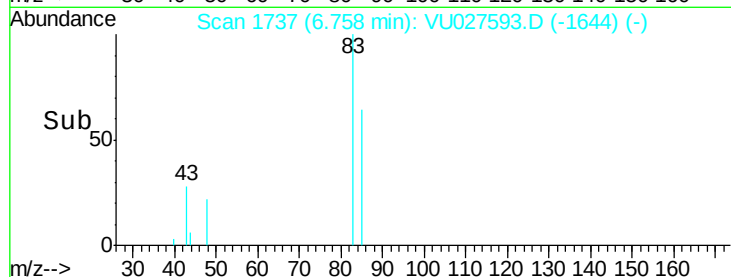
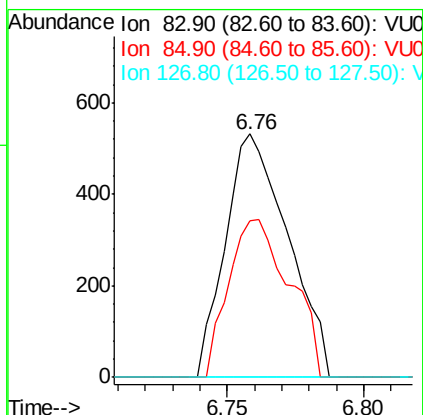
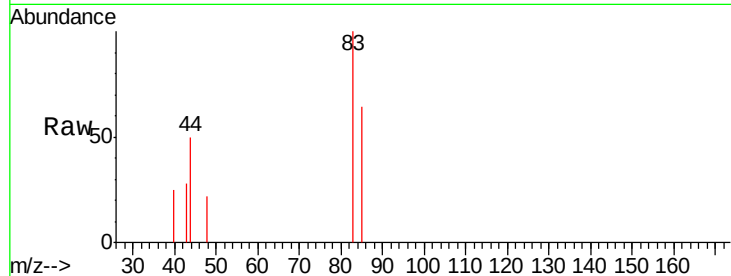
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	83	Resp:	847
Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.4	77.0
127	0.0	6.3	9.5#

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#48

Methyl methacrylate

Concen: 1.78 ug/l

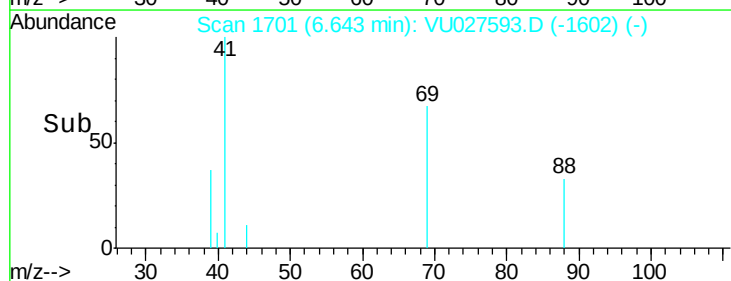
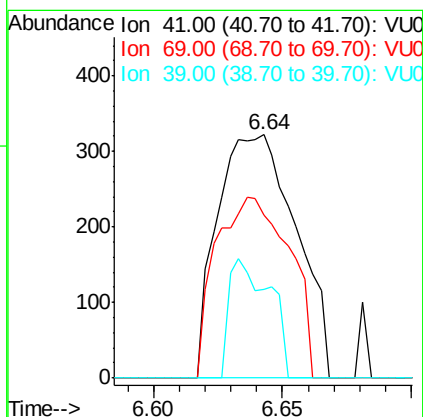
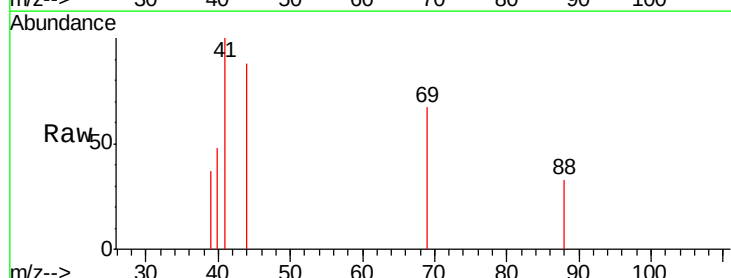
RT: 6.64 min Scan# 1701

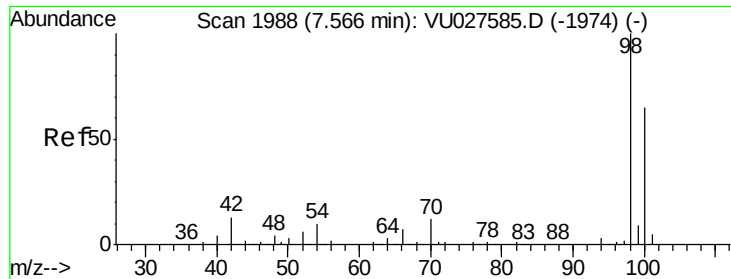
Delta R.T. 0.02 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	41	Resp:	681
Ion	Ratio	Lower	Upper
41	100		
69	69.6	61.0	91.4
39	25.4	39.9	59.9#





#50

Toluene-d8

Concen: 46.75 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 98 Resp: 234149

Ion Ratio Lower Upper

98 100

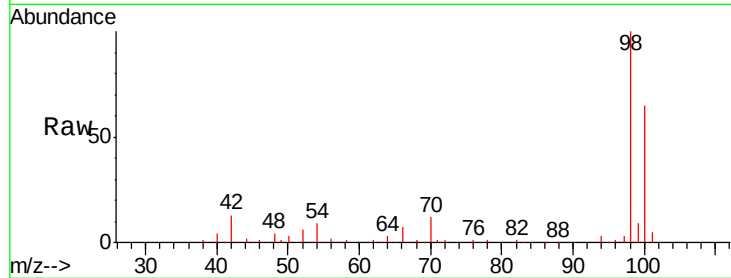
100 64.9 52.1 78.1

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Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

150000

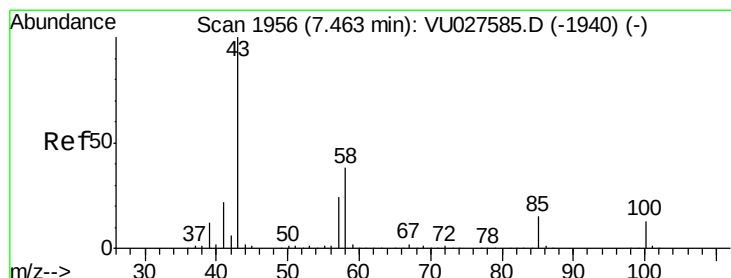
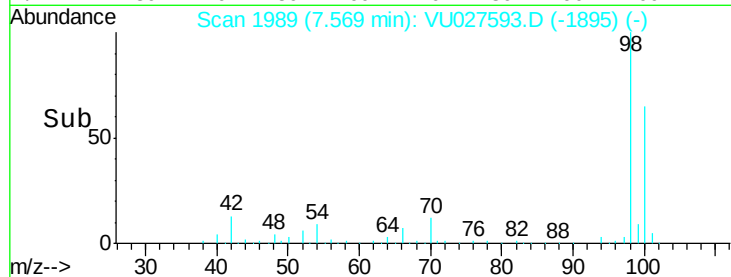
7.57

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.02 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027593.D

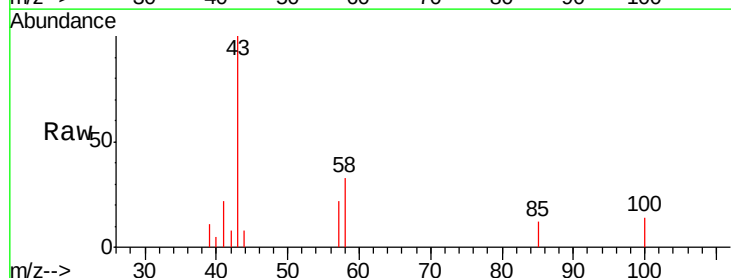
Acq: 11 Oct 2018 13:00

Tgt Ion: 43 Resp: 5685

Ion Ratio Lower Upper

43 100

58 35.4 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

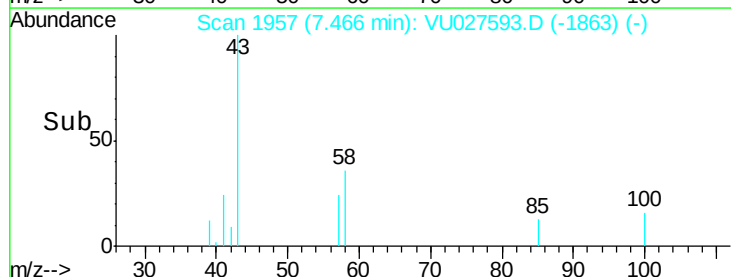
3000

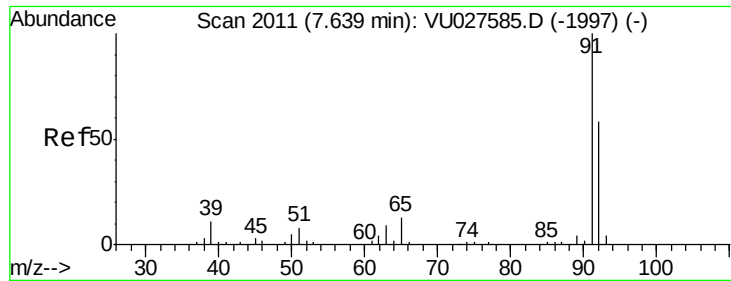
2000

1000

0

Time-->





#52

Toluene

Concen: 0.43 ug/l

RT: 7.64 min Scan# 2012

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 92 Resp: 1488

Ion Ratio Lower Upper

92 100

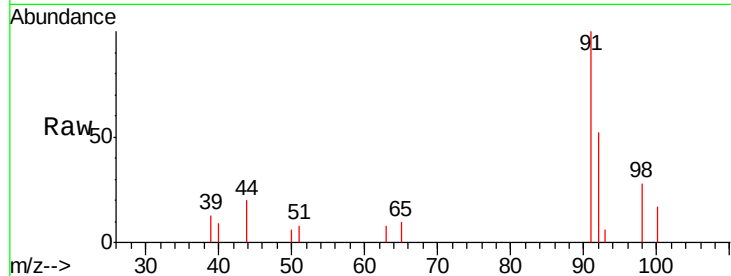
91 196.2 138.6 208.0

Manual Integrations

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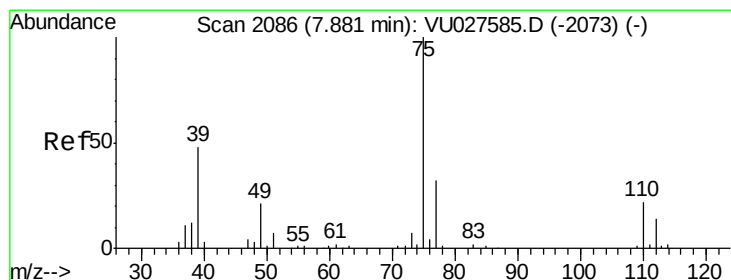
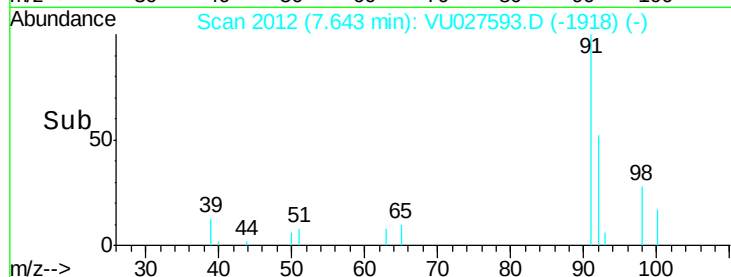
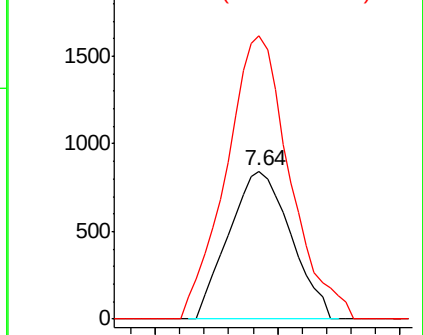
MMDadoda

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Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#53

t-1,3-Dichloropropene

Concen: 0.43 ug/l

RT: 7.89 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VU027593.D

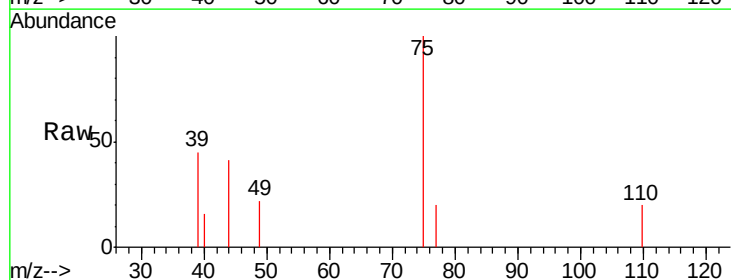
Acq: 11 Oct 2018 13:00

Tgt Ion: 75 Resp: 1019

Ion Ratio Lower Upper

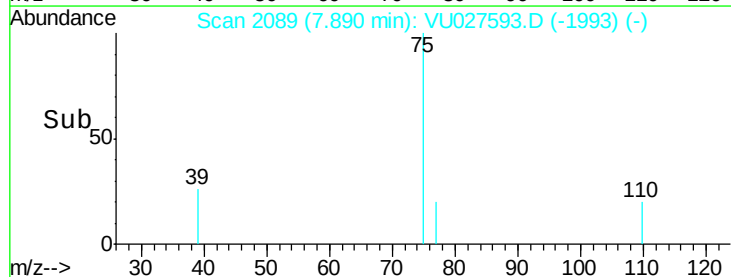
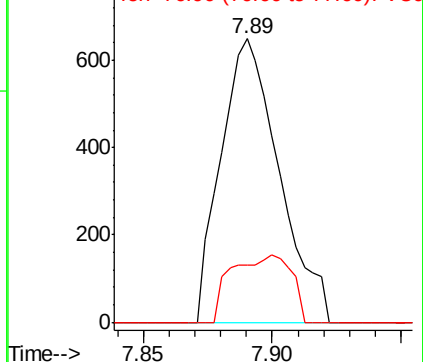
75 100

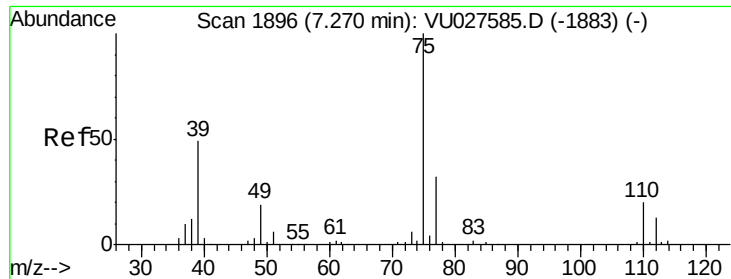
77 20.3 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0





#54

cis-1,3-Dichloropropene

Concen: 0.40 ug/l

RT: 7.28 min Scan# 1898

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

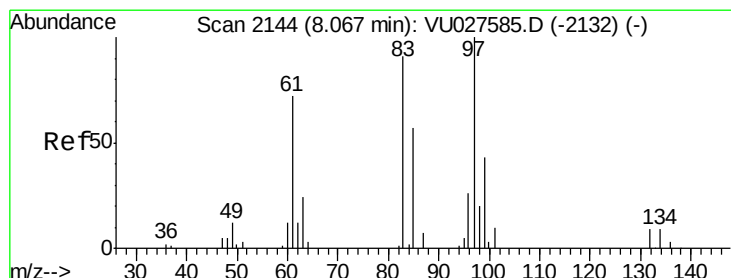
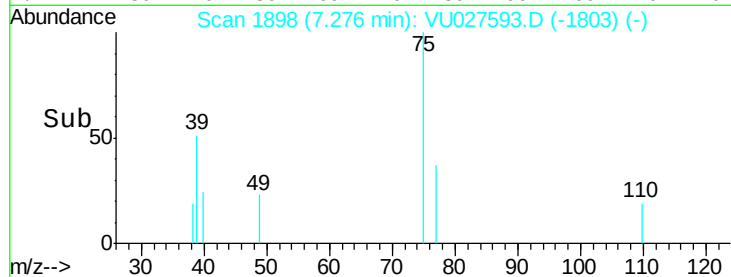
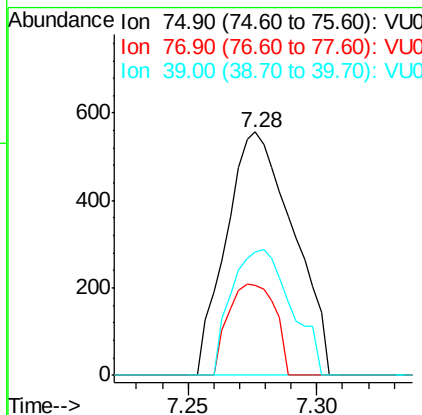
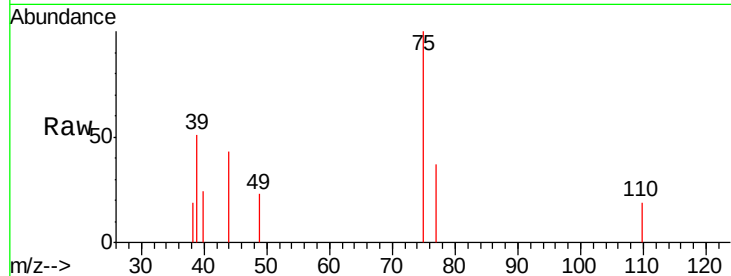
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	75	Resp:	1009
Ion	Ratio	Lower	Upper
75	100		
77	37.2	24.5	36.7#
39	50.6	40.1	60.1

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#55

1,1,2-Trichloroethane

Concen: 0.45 ug/l

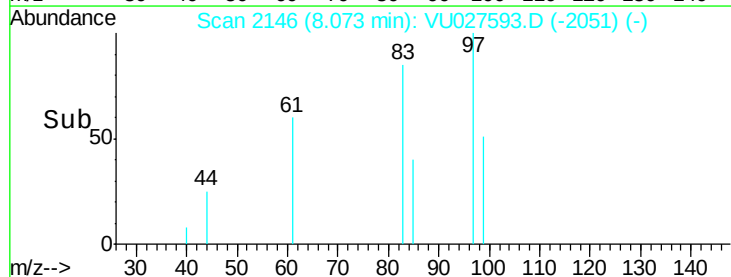
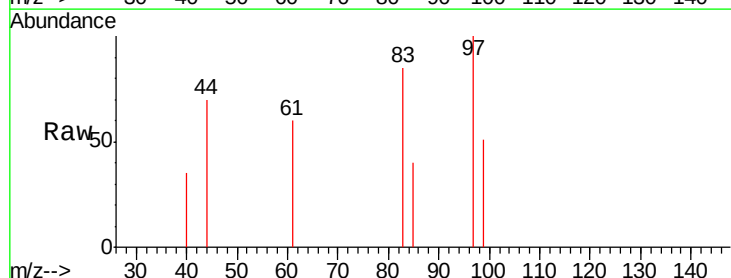
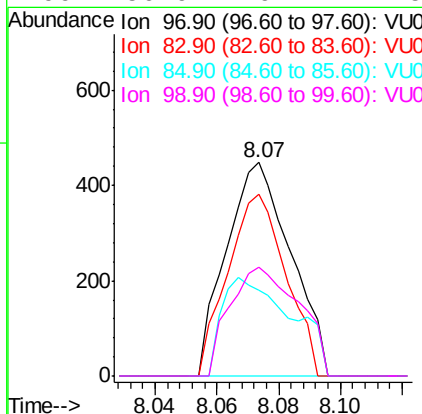
RT: 8.07 min Scan# 2146

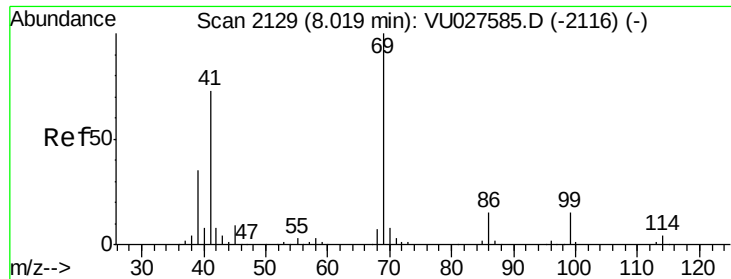
Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	97	Resp:	651
Ion	Ratio	Lower	Upper
97	100		
83	85.0	73.0	109.6
85	40.0	47.3	70.9#
99	50.9	49.7	74.5





#56

Ethyl methacrylate

Concen: 2.43 ug/l

RT: 8.03 min Scan# 2132

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

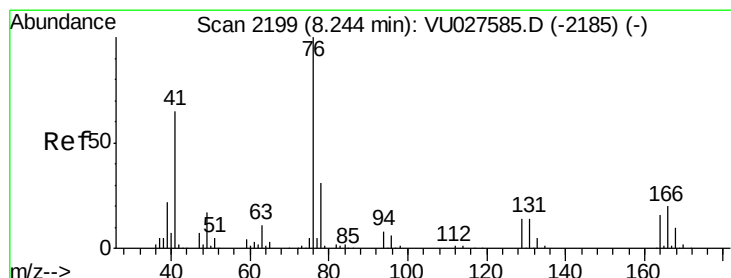
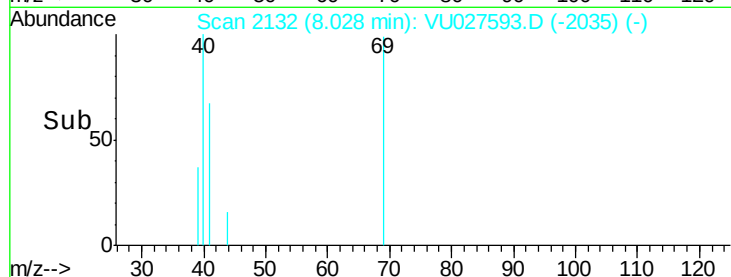
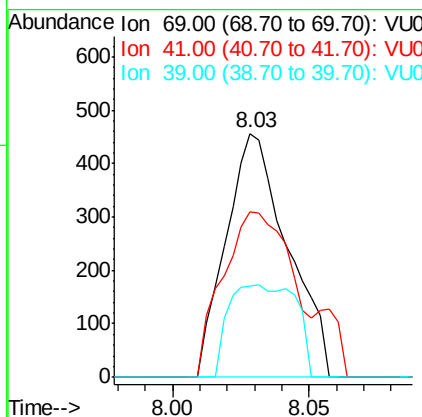
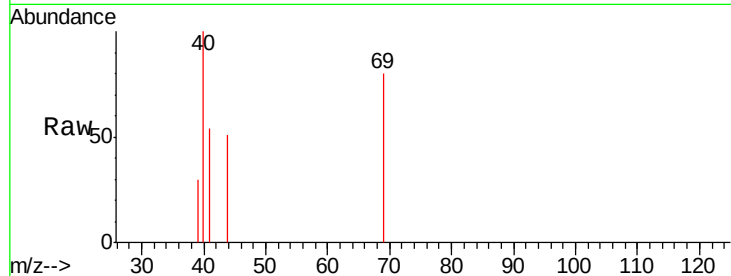
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	69	Resp:	715
Ion	Ratio	Lower	Upper
69	100		
41	76.2	60.0	90.0
39	41.7	29.5	44.3

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#57

1,3-Dichloropropane

Concen: 0.41 ug/l

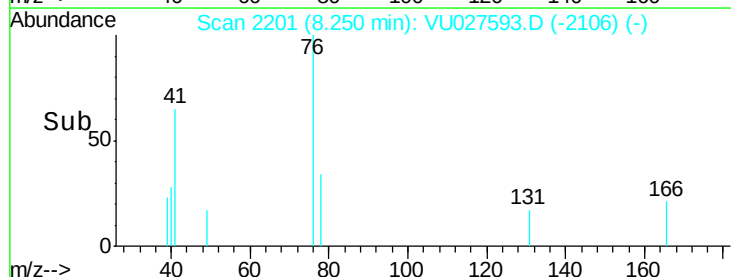
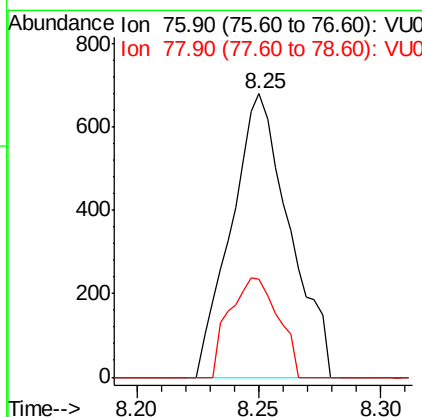
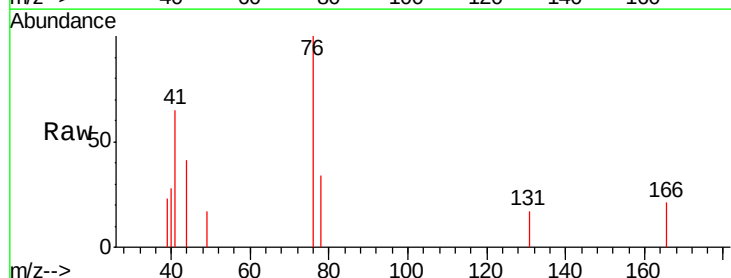
RT: 8.25 min Scan# 2201

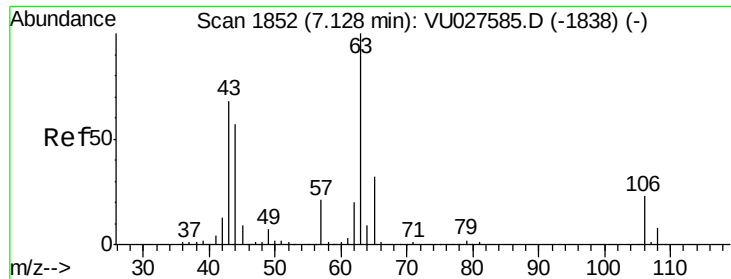
Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	76	Resp:	1118
Ion	Ratio	Lower	Upper
76	100		
78	29.6	25.8	38.6





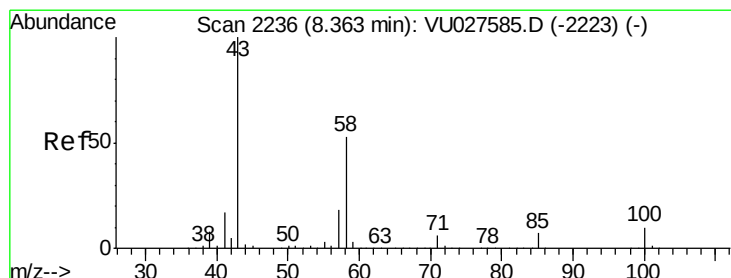
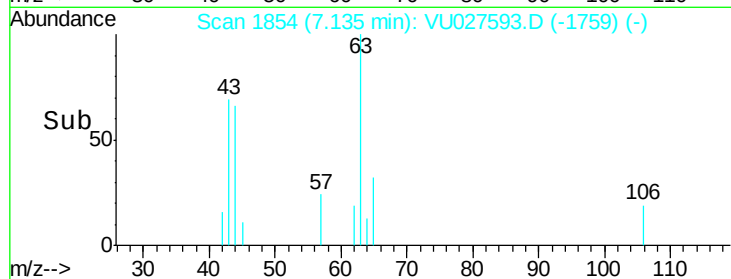
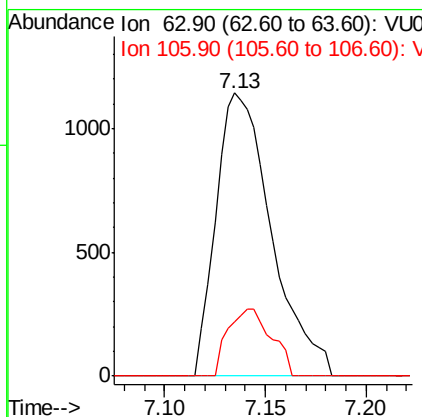
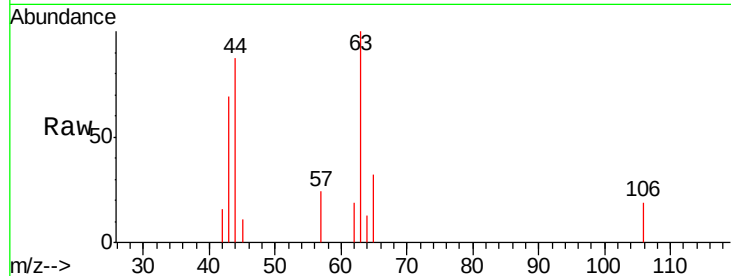
#58
2-Chloroethyl Vinyl ether
Concen: 7.01 ug/l
RT: 7.13 min Scan# 1854
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 63 Resp: 2189
Ion Ratio Lower Upper
63 100
106 18.7 18.5 27.7

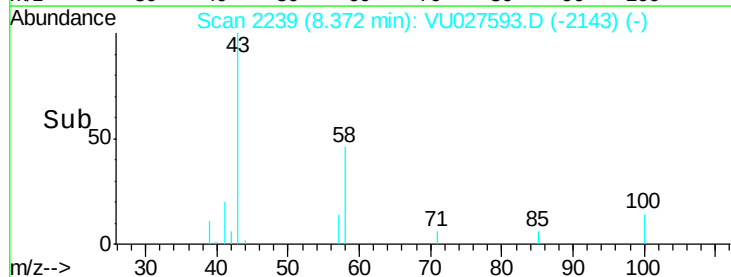
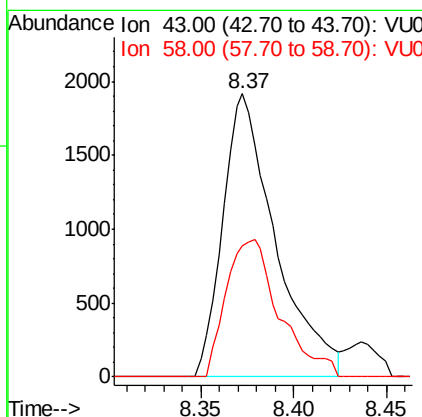
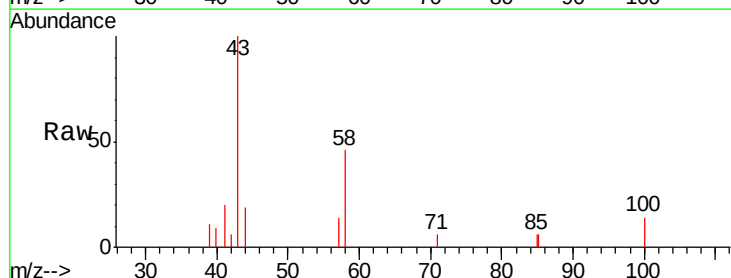
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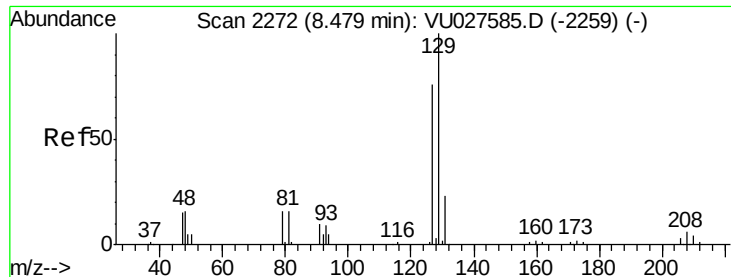
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#59
2-Hexanone
Concen: 1.72 ug/l
RT: 8.37 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 43 Resp: 3778
Ion Ratio Lower Upper
43 100
58 49.0 26.1 78.3





#60

Dibromochloromethane

Concen: 0.37 ug/l

RT: 8.48 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:129 Resp: 529

Ion Ratio Lower Upper

129 100

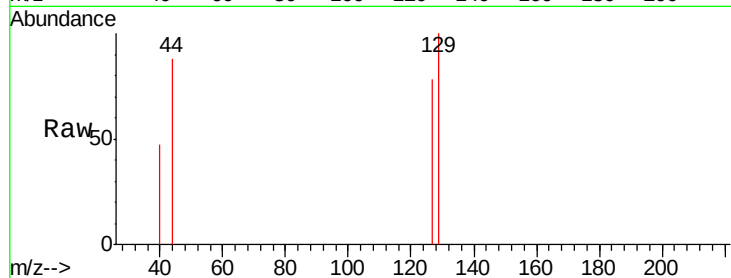
127 73.2 39.1 117.2

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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.48

400

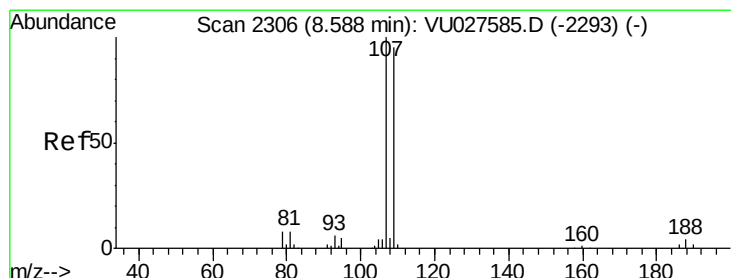
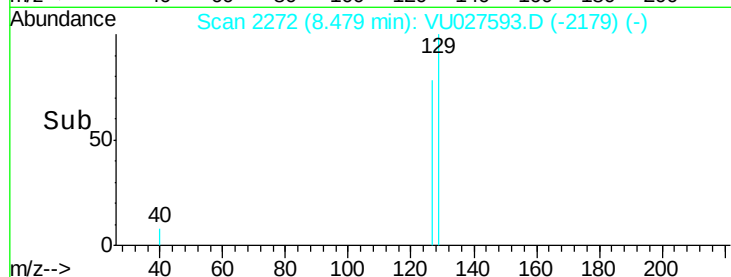
300

200

100

0

Time-->



#61

1,2-Dibromoethane

Concen: 0.40 ug/l

RT: 8.59 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VU027593.D

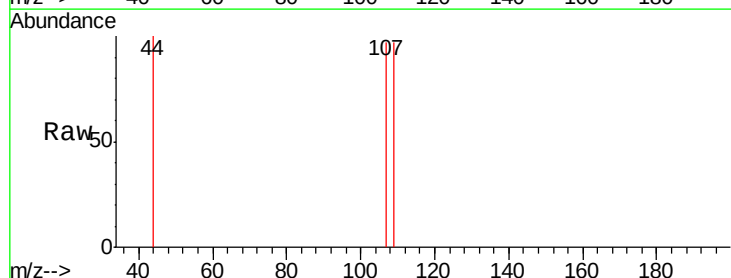
Acq: 11 Oct 2018 13:00

Tgt Ion:107 Resp: 607

Ion Ratio Lower Upper

107 100

109 97.4 74.5 111.7



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.59

400

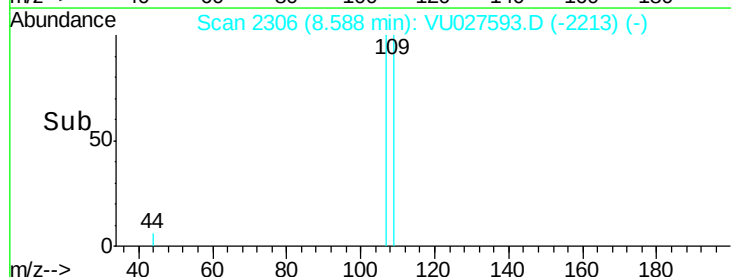
300

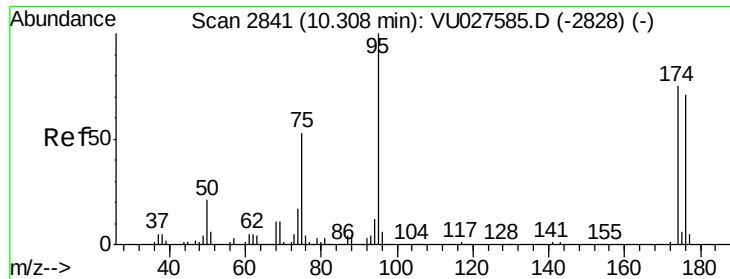
200

100

0

Time-->





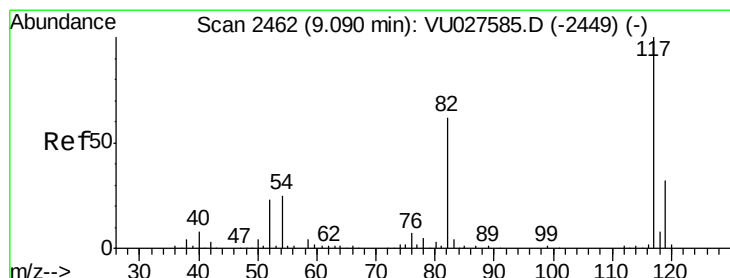
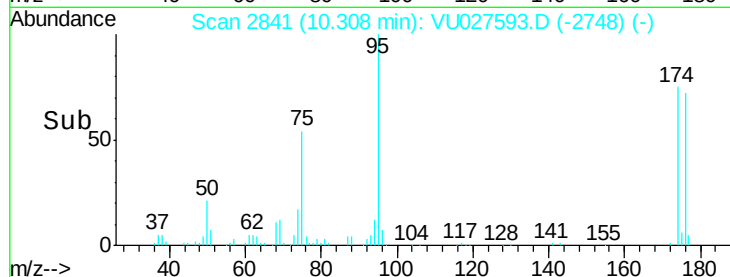
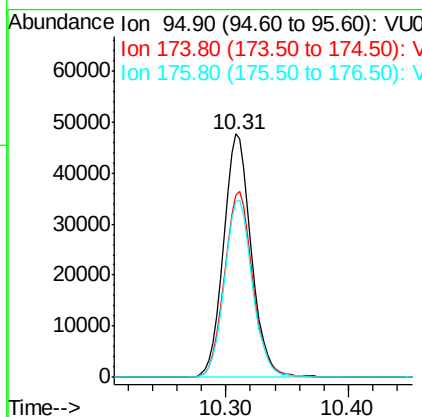
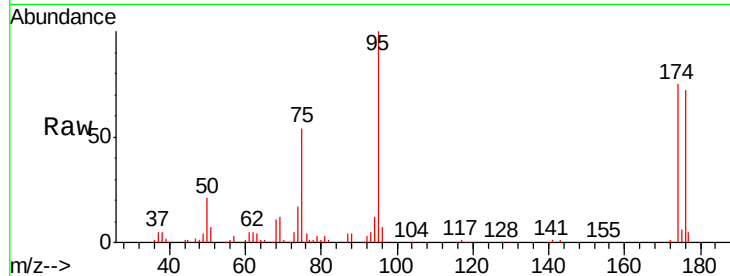
#62
4-Bromofluorobenzene
Concen: 42.13 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion: 95 Resp: 76094
Ion Ratio Lower Upper
95 100
174 77.7 0.0 147.8
176 73.7 0.0 140.8

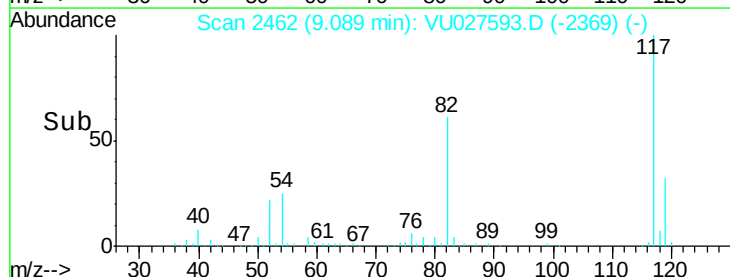
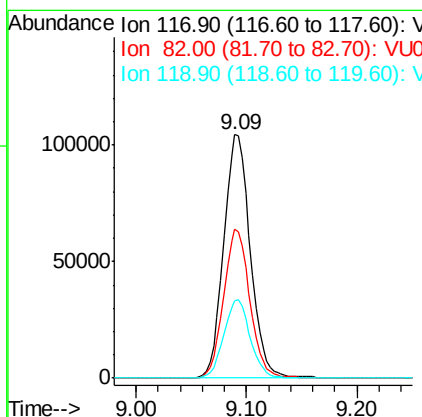
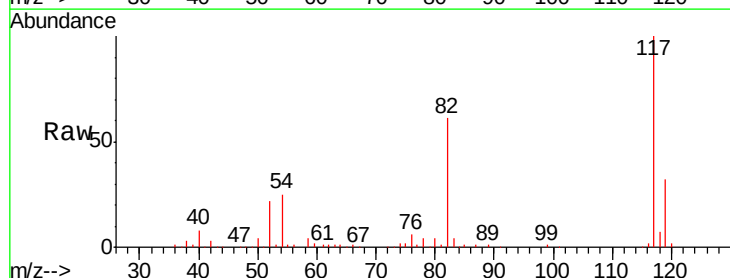
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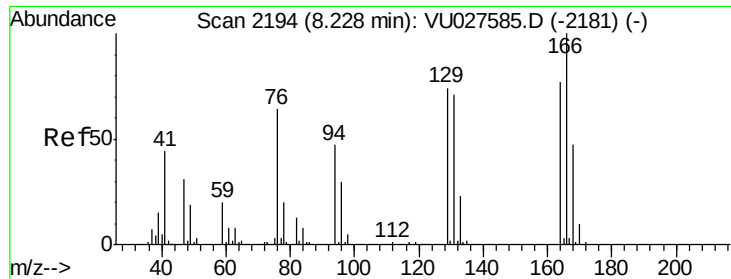
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#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion: 117 Resp: 175144
Ion Ratio Lower Upper
117 100
82 61.3 49.2 73.8
119 32.0 25.7 38.5





#64

Tetrachloroethene

Concen: 0.45 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU027593.D

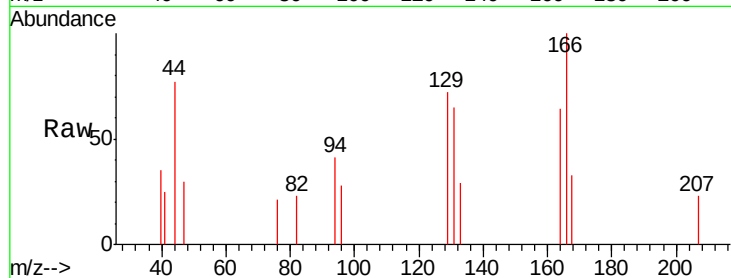
Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018



Tgt Ion:164 Resp: 493

Ion Ratio Lower Upper

164 100

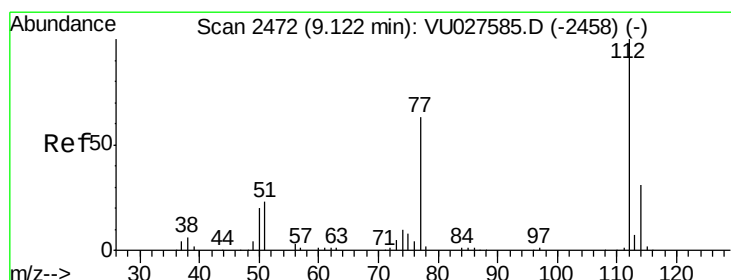
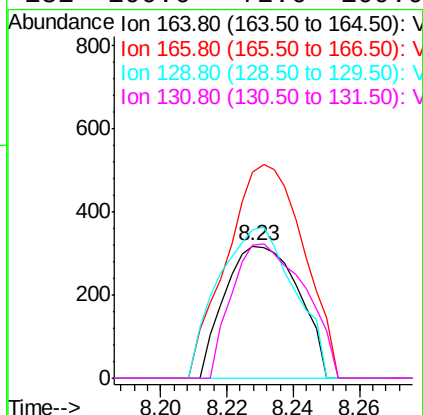
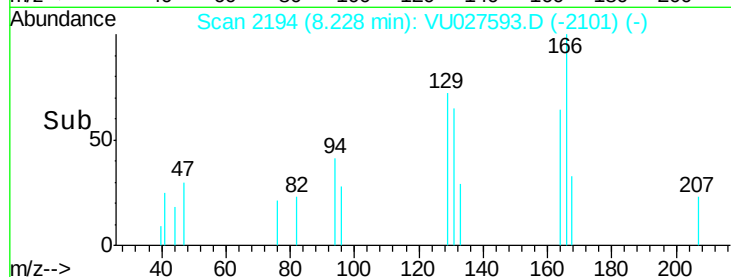
166 155.7 101.0 151.6#

129 112.3 78.0 117.0

131 100.6 72.6 109.0

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#65

Chlorobenzene

Concen: 0.49 ug/l

RT: 9.12 min Scan# 2472

Delta R.T. -0.00 min

Lab File: VU027593.D

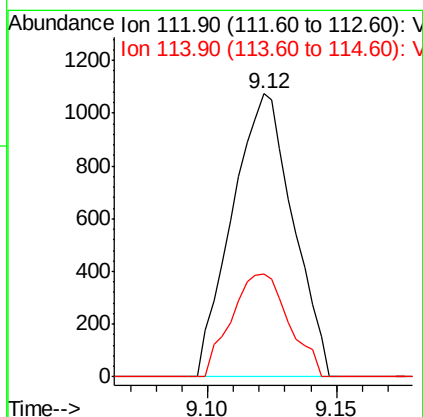
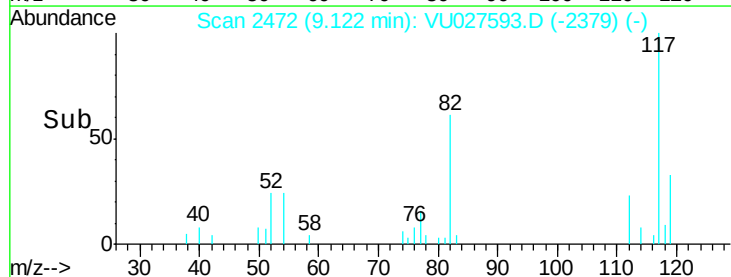
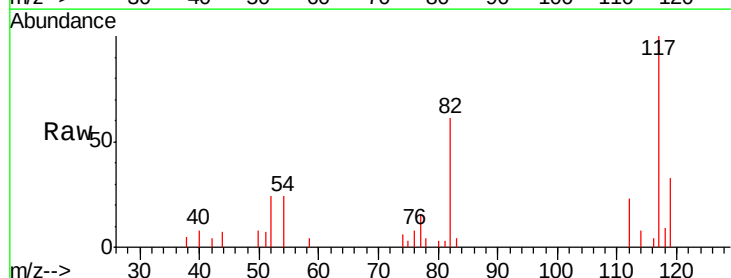
Acq: 11 Oct 2018 13:00

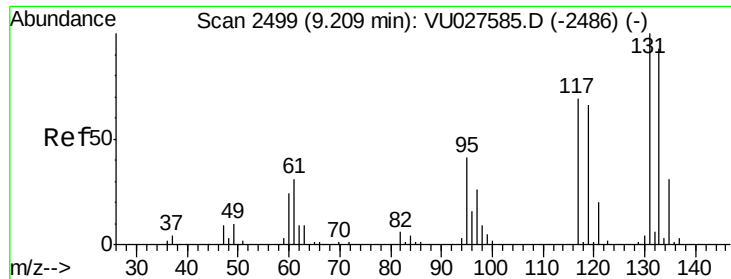
Tgt Ion:112 Resp: 1767

Ion Ratio Lower Upper

112 100

114 36.3 25.8 38.6





#66

1,1,1,2-Tetrachloroethane

Concen: 0.42 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

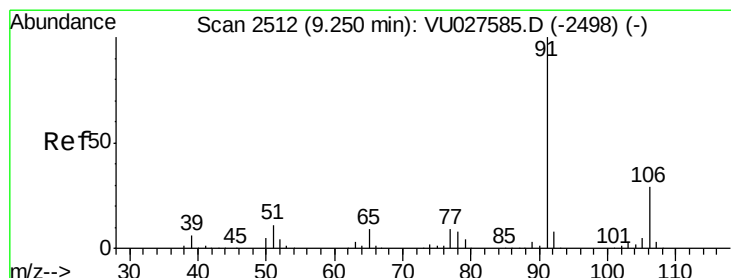
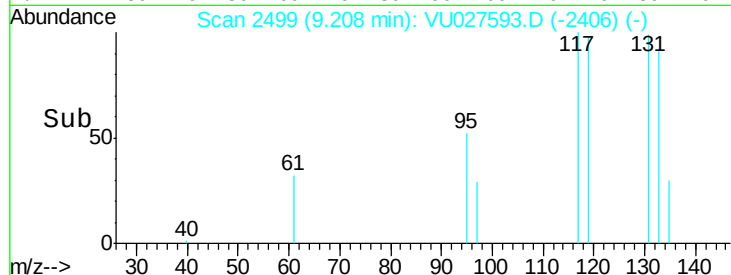
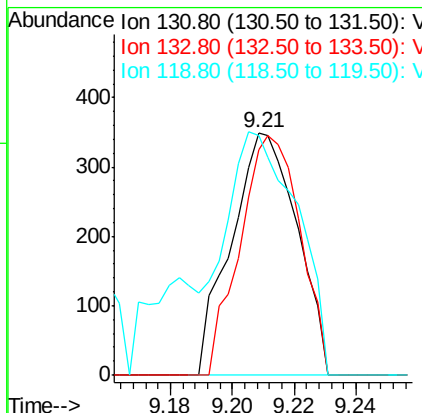
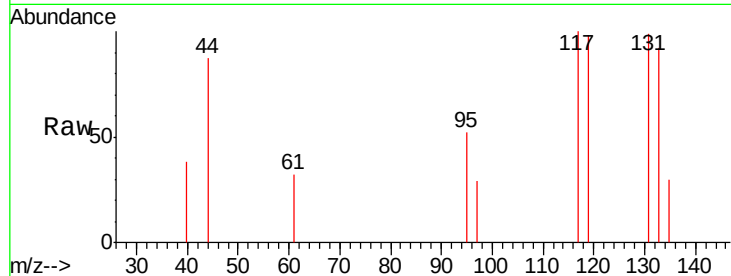
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 131 Resp: 518
 Ion Ratio Lower Upper
 131 100
 133 90.2 48.5 145.6
 119 0.0 33.5 100.4#

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#67

Ethyl Benzene

Concen: 0.45 ug/l

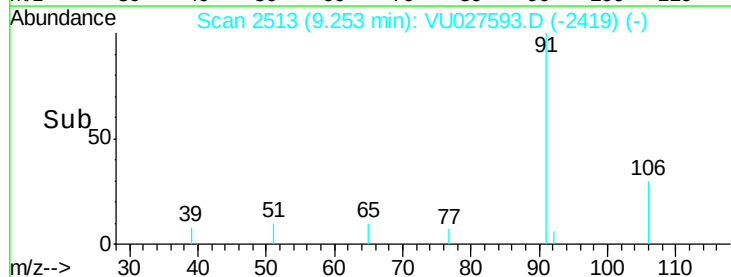
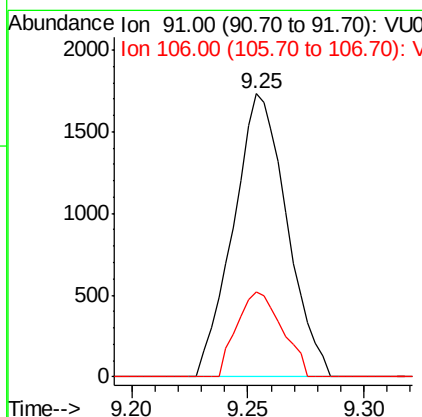
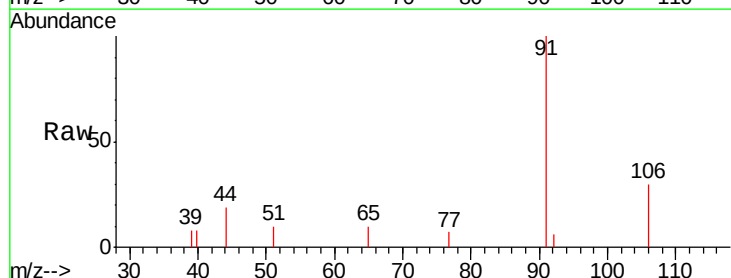
RT: 9.25 min Scan# 2513

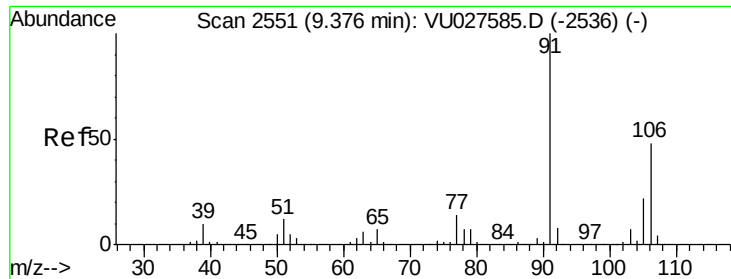
Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion: 91 Resp: 2780
 Ion Ratio Lower Upper
 91 100
 106 30.0 23.6 35.4





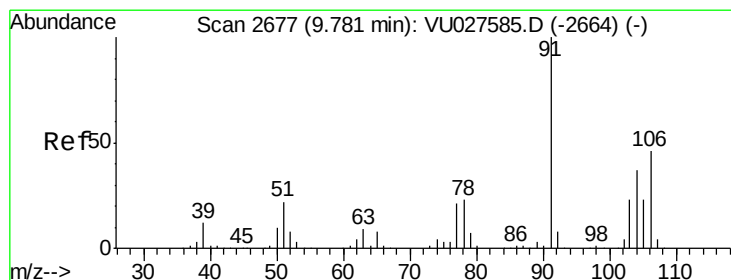
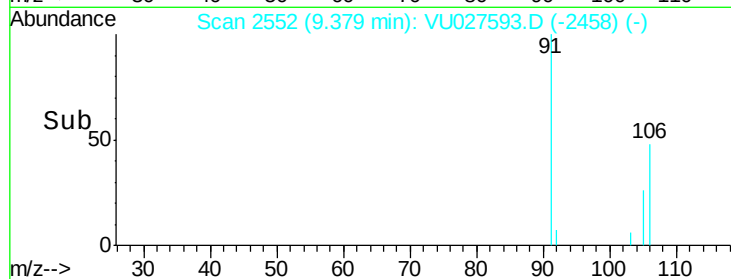
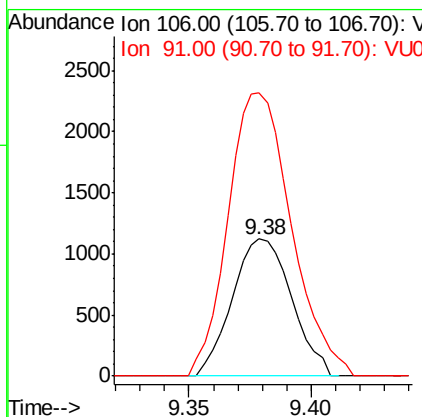
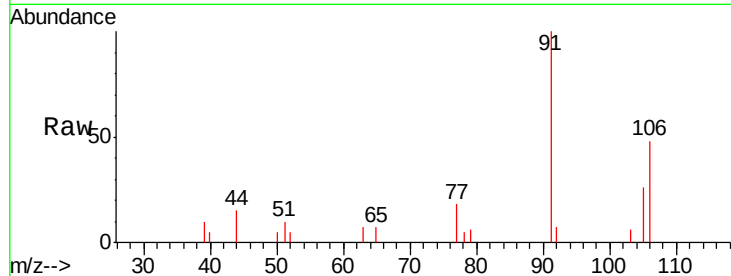
#68
m/p-Xylenes
Concen: 0.83 ug/l
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion:106 Resp: 1892
Ion Ratio Lower Upper
106 100
91 220.6 168.1 252.1

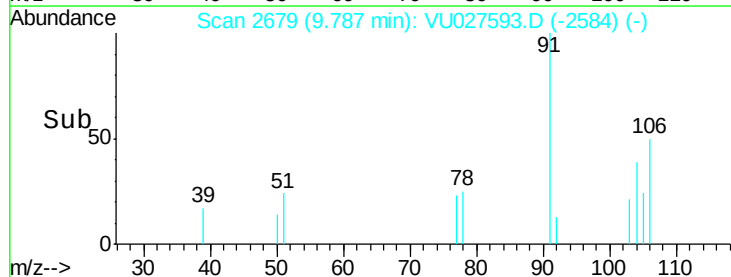
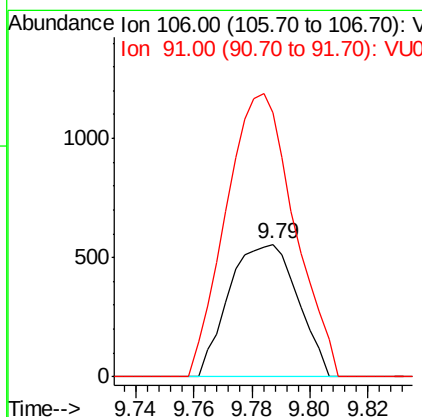
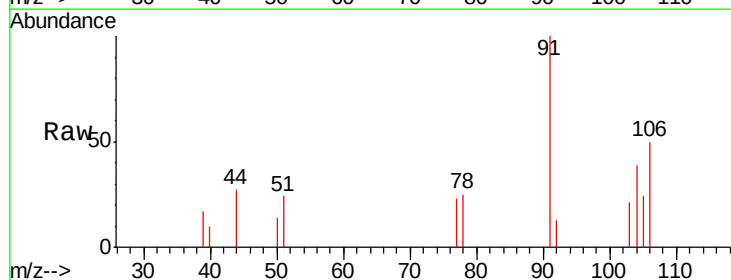
Manual Integrations
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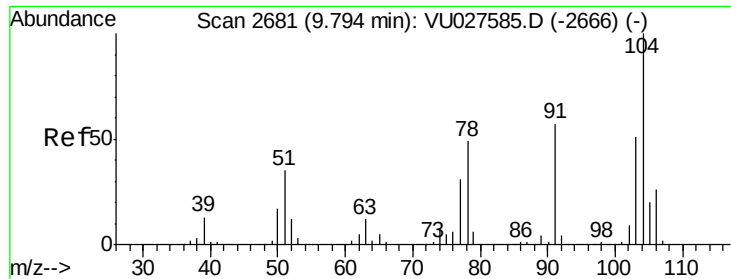
MMDadoda
10/16/2018 2:22:58 PM



#69
o-Xylene
Concen: 0.41 ug/l
RT: 9.79 min Scan# 2679
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion:106 Resp: 911
Ion Ratio Lower Upper
106 100
91 212.6 111.7 334.9





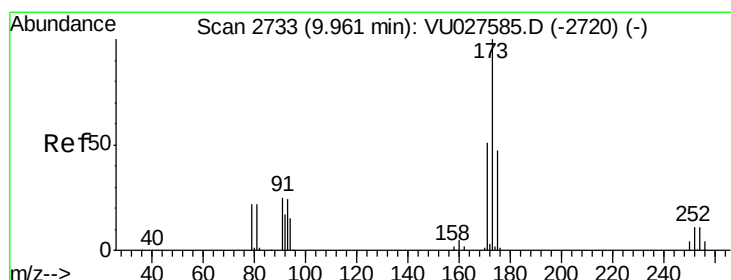
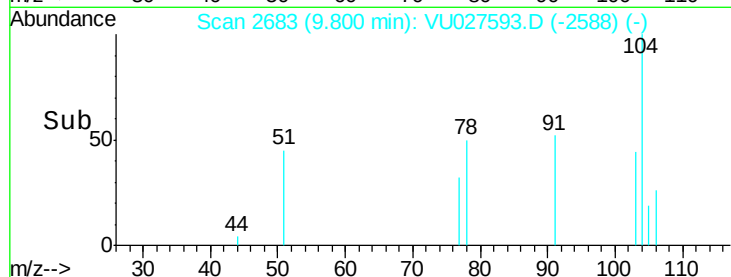
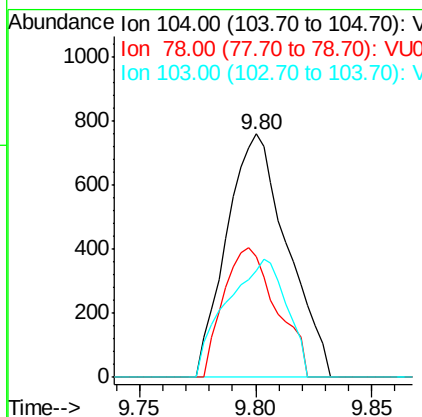
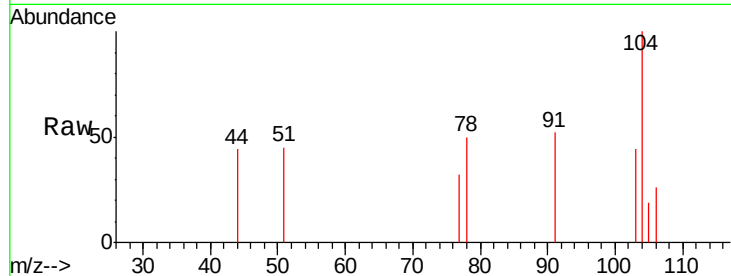
#70
Styrene
Concen: 1.59 ug/l
RT: 9.80 min Scan# 2683
Delta R.T. 0.01 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.5	42.9	64.3
103	48.2	43.9	65.9

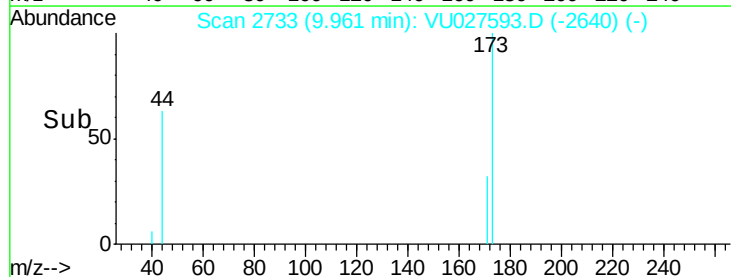
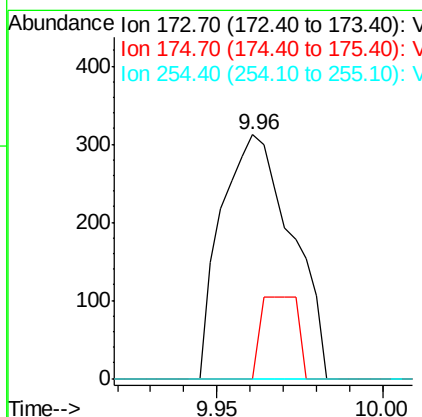
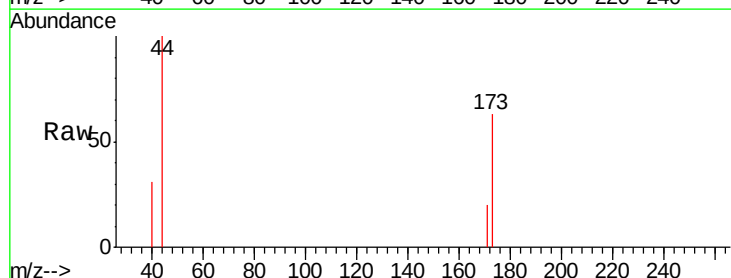
Manual Integrations
APPROVED

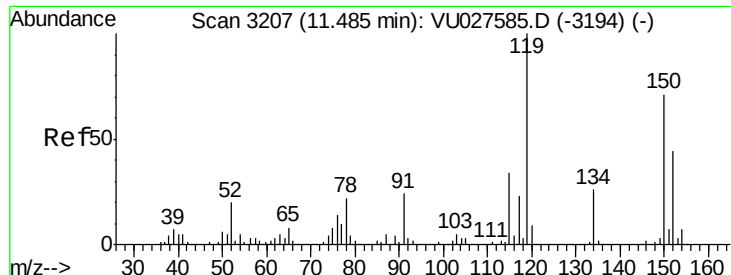
MMDadoda
10/16/2018 2:22:58 PM



#71
Bromoform
Concen: 0.45 ug/l
RT: 9.96 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Lower	Upper
173	100		
175	17.4	24.3	73.0#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

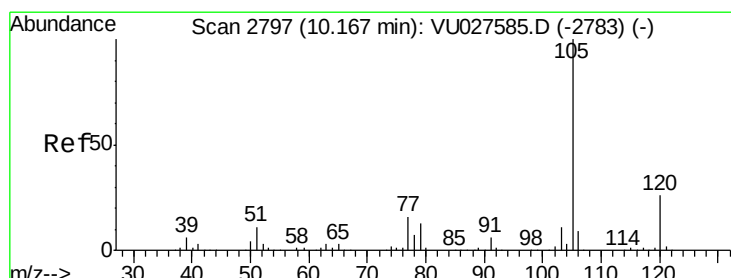
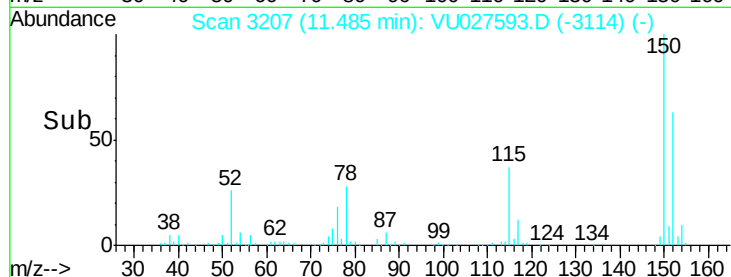
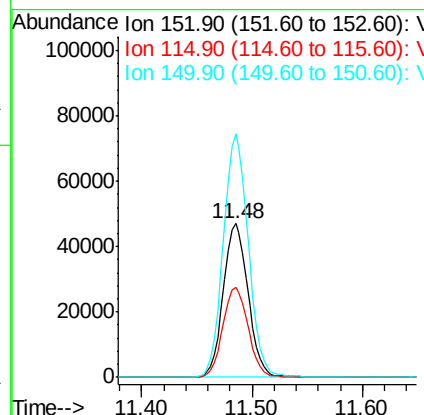
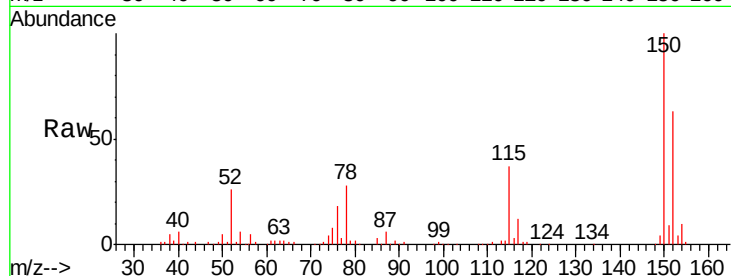
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	73803		
115	59.2	43.4	130.2	
150	158.8	0.0	349.2	

Manual Integrations
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#73

Isopropylbenzene

Concen: 0.45 ug/l

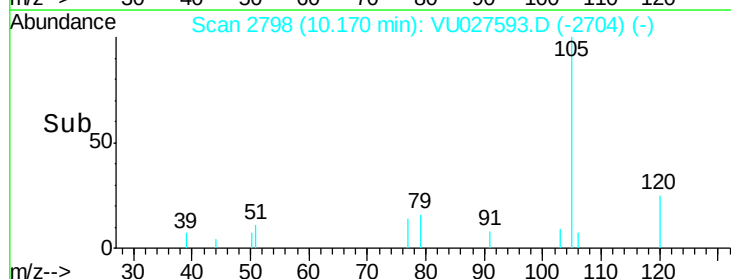
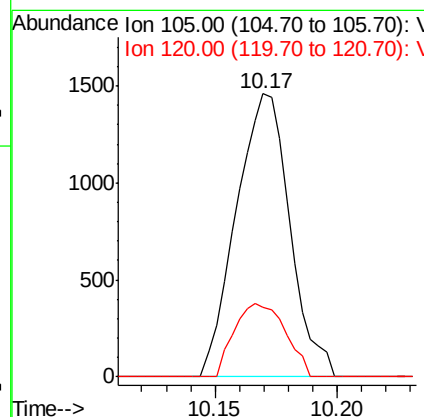
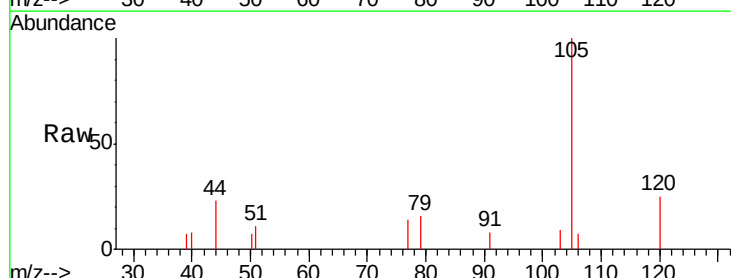
RT: 10.17 min Scan# 2798

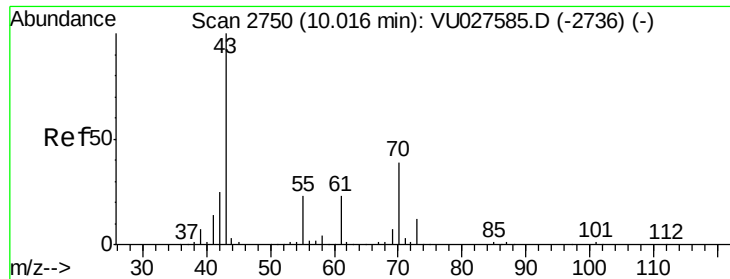
Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	2223		
120	24.7	12.6	37.8	





#74

N-amyl acetate

Concen: 0.38 ug/l

RT: 10.02 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

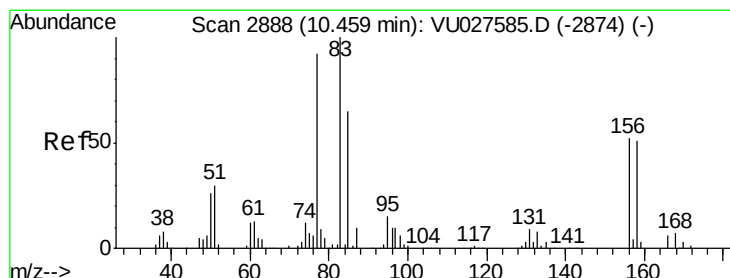
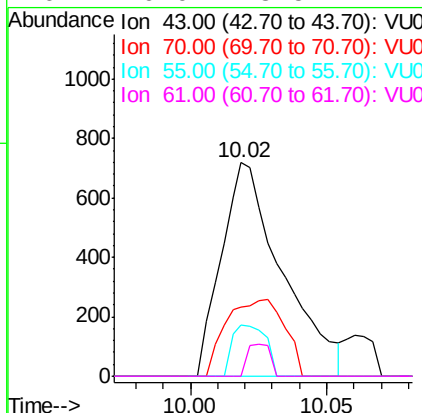
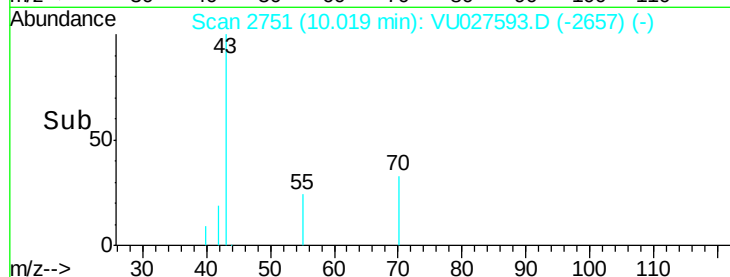
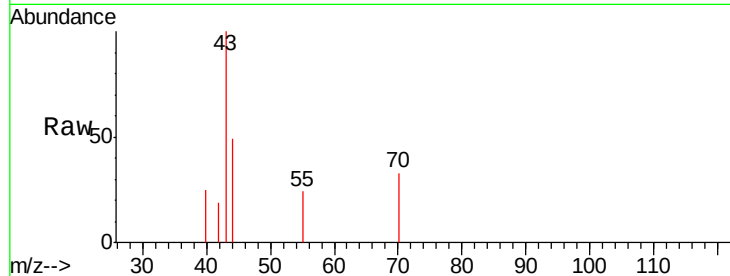
ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion:	43	Resp:	1112
Ion	Ratio	Lower	Upper
43	100		
70	34.4	31.3	46.9
55	13.3	19.0	28.6#
61	0.0	18.5	27.7#

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: 0.49 ug/l

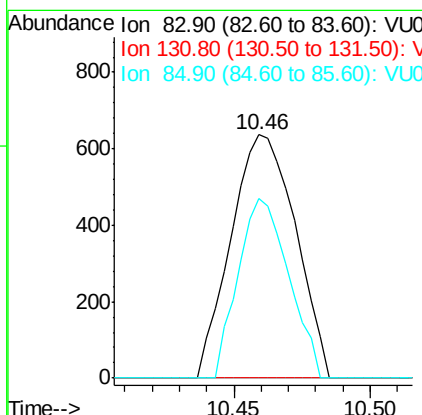
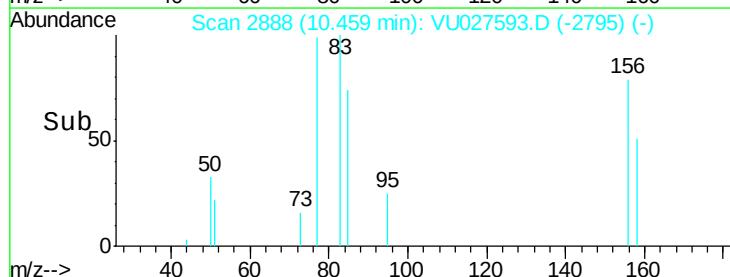
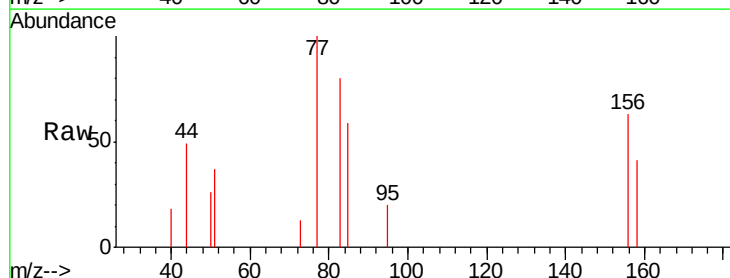
RT: 10.46 min Scan# 2888

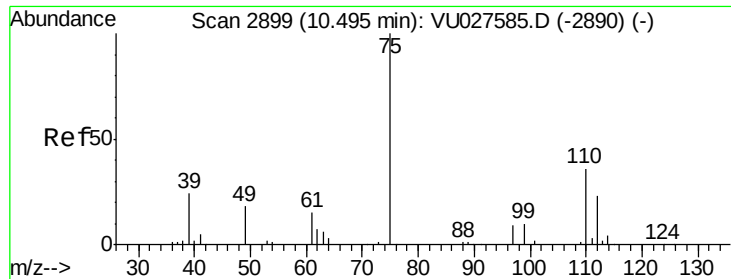
Delta R.T. -0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Tgt Ion:	83	Resp:	1046
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.4	13.2#
85	57.6	32.0	96.0





#76

1,2,3-Trichloropropane

Concen: 0.58 ug/l

RT: 10.50 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 75 Resp: 1230

Ion Ratio Lower Upper

75 100

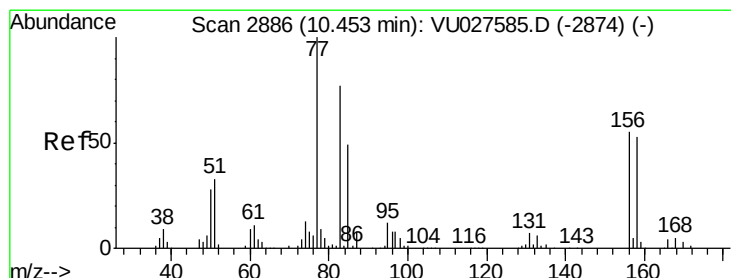
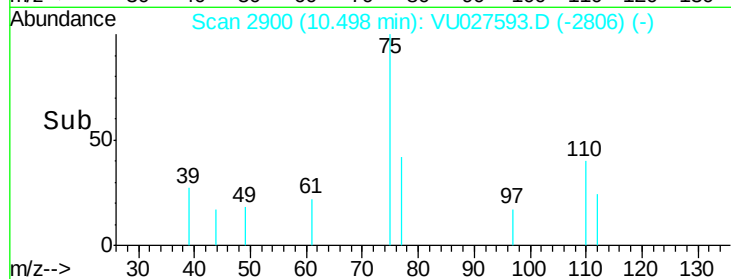
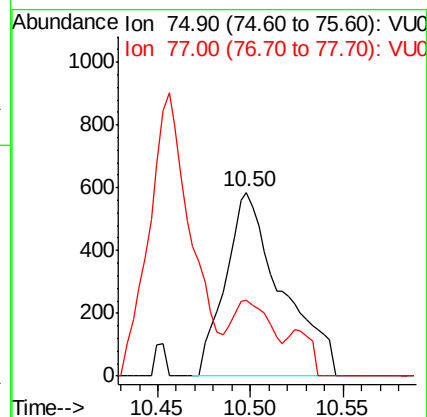
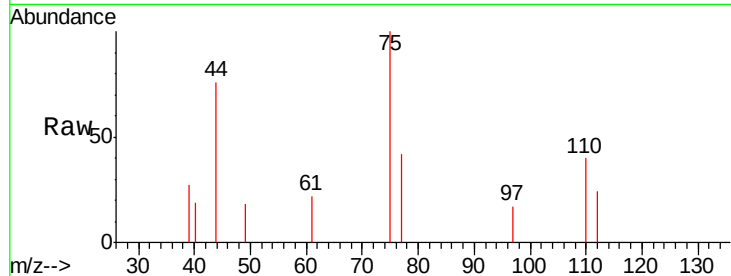
77 29.3 20.3 60.9

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#77

Bromobenzene

Concen: 0.51 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.01 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

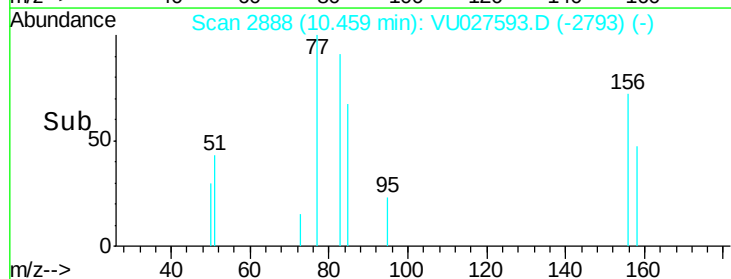
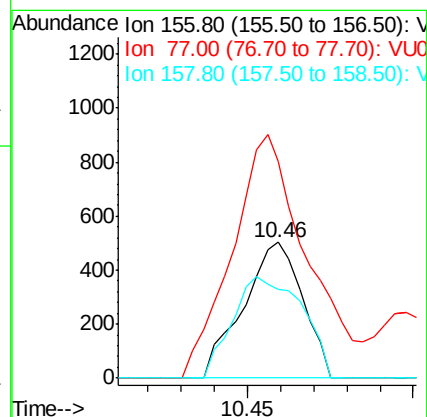
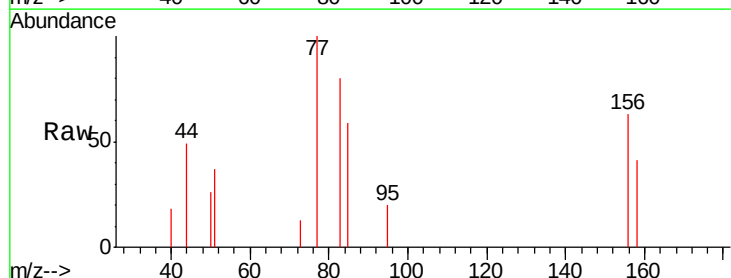
Tgt Ion: 156 Resp: 626

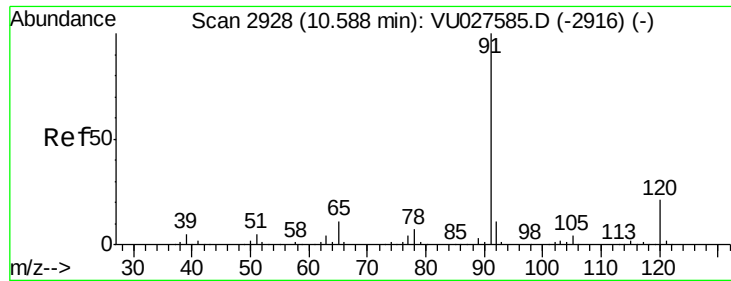
Ion Ratio Lower Upper

156 100

77 226.5 94.8 284.4

158 87.4 47.4 142.3





#78

n-propylbenzene

Concen: 0.48 ug/l

RT: 10.59 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VU027593.D

Acq: 11 Oct 2018 13:00

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT4-2018

Tgt Ion: 91 Resp: 2902

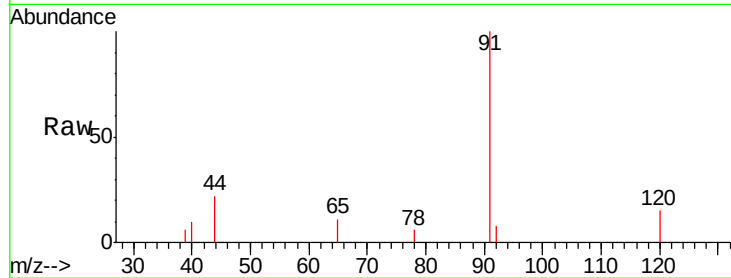
Ion Ratio Lower Upper

91 100

120 15.6 10.6 31.8

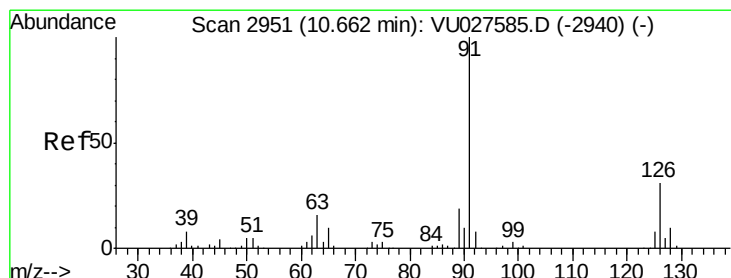
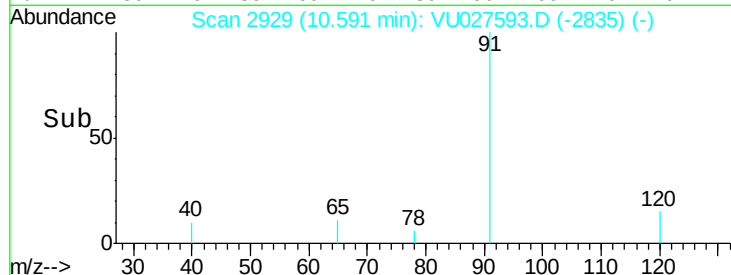
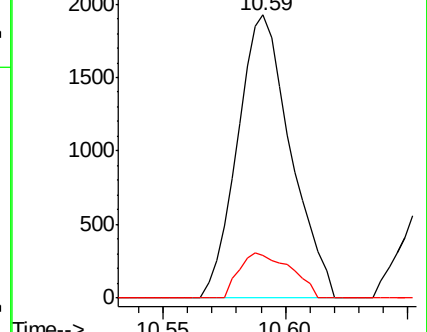
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.54 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VU027593.D

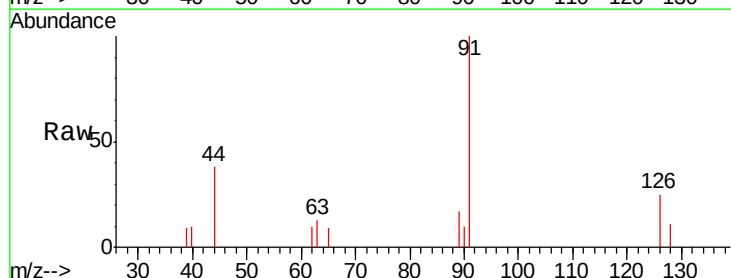
Acq: 11 Oct 2018 13:00

Tgt Ion: 91 Resp: 1986

Ion Ratio Lower Upper

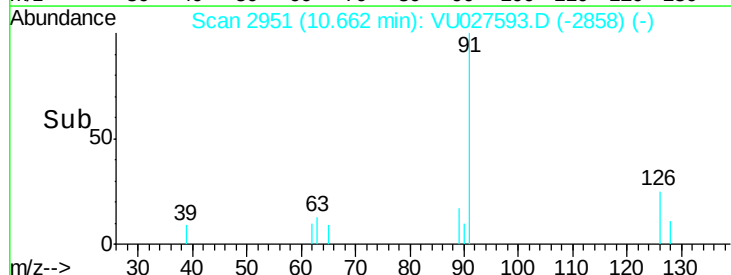
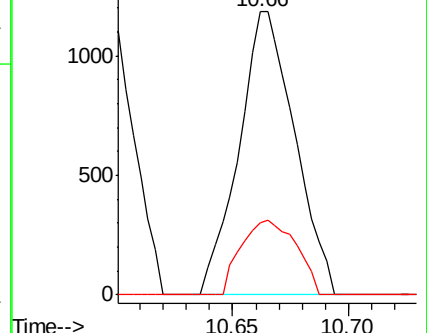
91 100

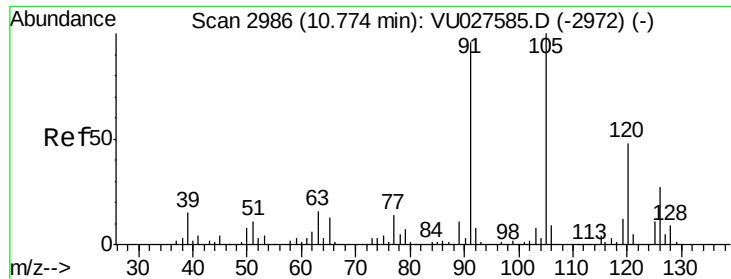
126 26.0 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V





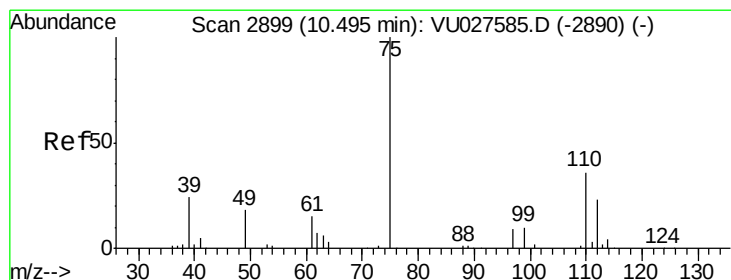
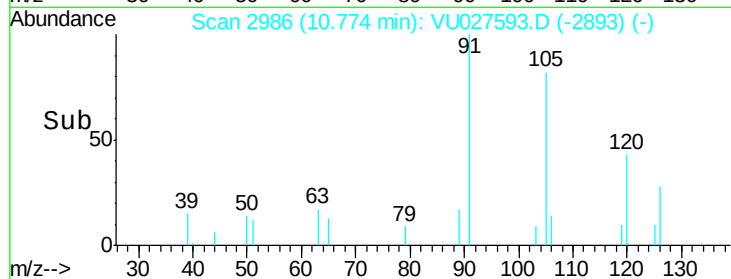
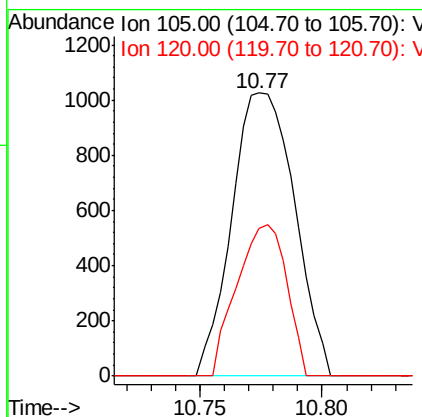
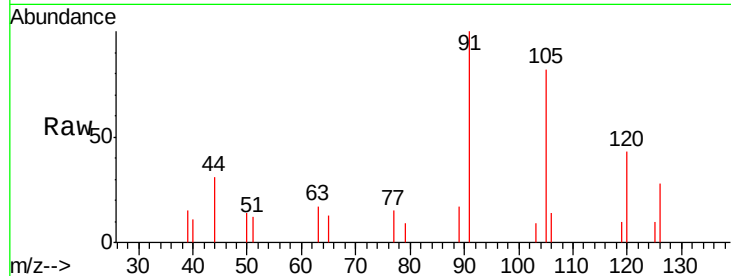
#80
 1,3,5-Trimethylbenzene
 Concen: 0.20 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 105 Resp: 1835
 Ion Ratio Lower Upper
 105 100
 120 42.4 24.1 72.4

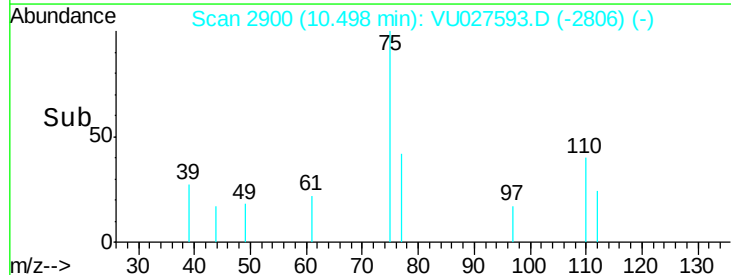
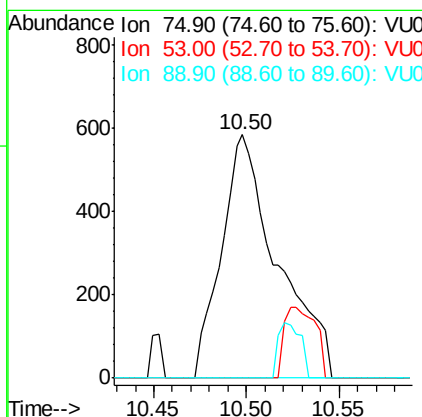
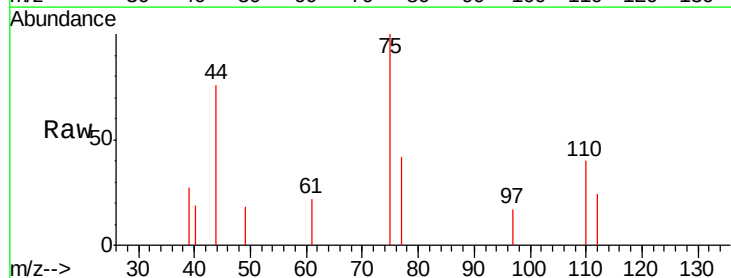
Manual Integrations
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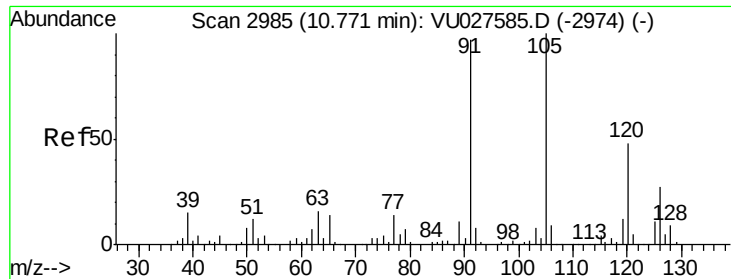
MMDadoda
 10/16/2018 2:22:58 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 0.68 ug/l
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 75 Resp: 1230
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





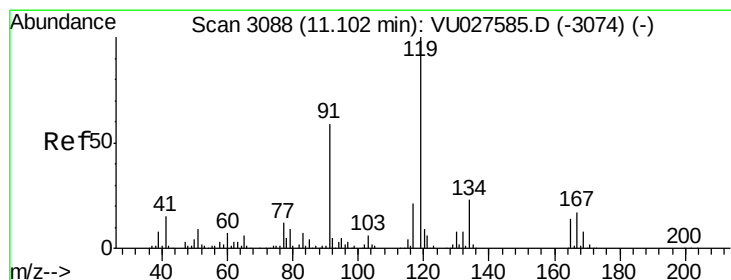
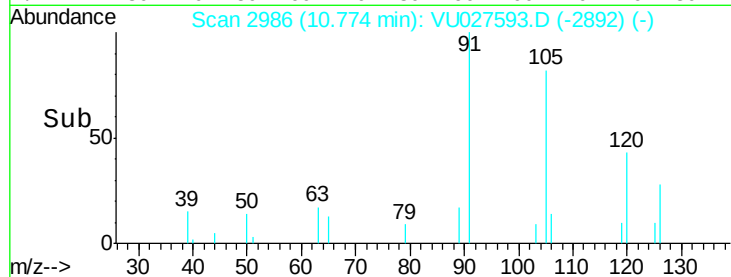
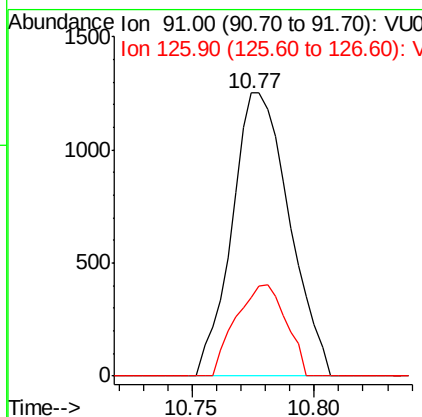
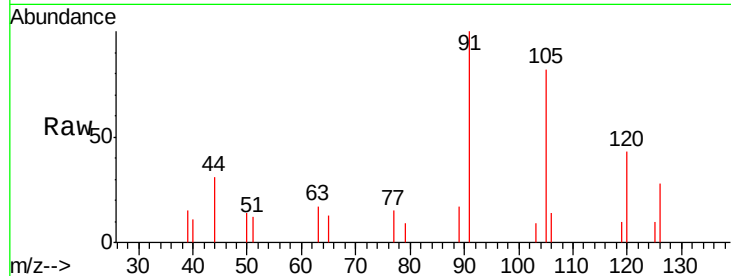
#82
 4-Chlorotoluene
 Concen: 0.49 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion: 91 Resp: 2039
 Ion Ratio Lower Upper
 91 100
 126 28.1 13.6 40.8

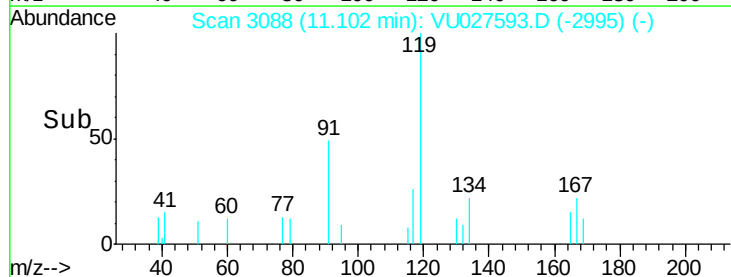
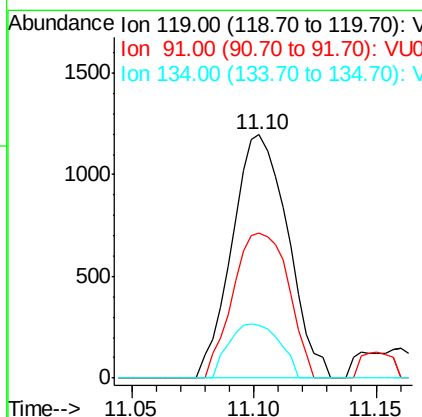
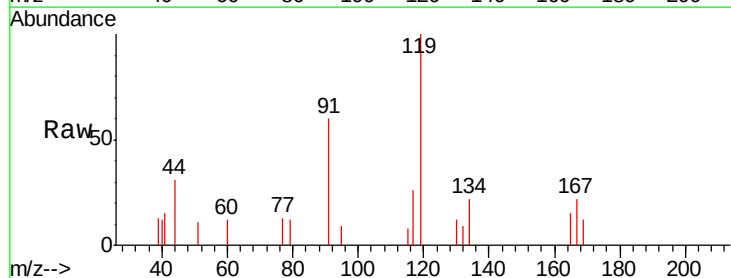
Manual Integrations
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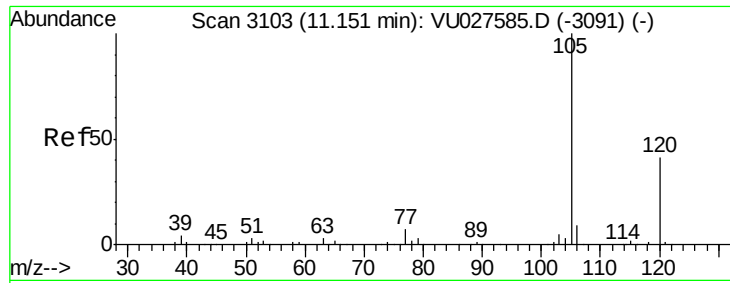
MMDadoda
 10/16/2018 2:22:58 PM



#83
 tert-Butylbenzene
 Concen: 0.47 ug/l
 RT: 11.10 min Scan# 3088
 Delta R.T. -0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion: 119 Resp: 1893
 Ion Ratio Lower Upper
 119 100
 91 59.5 30.3 91.0
 134 20.4 11.5 34.4





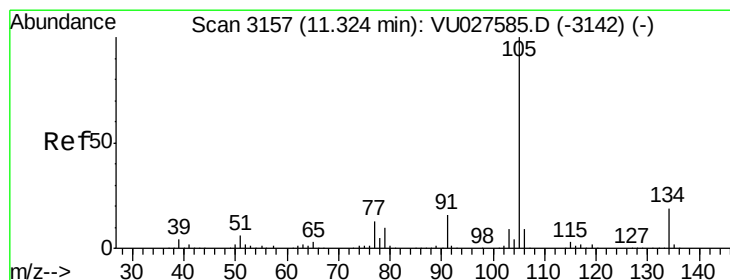
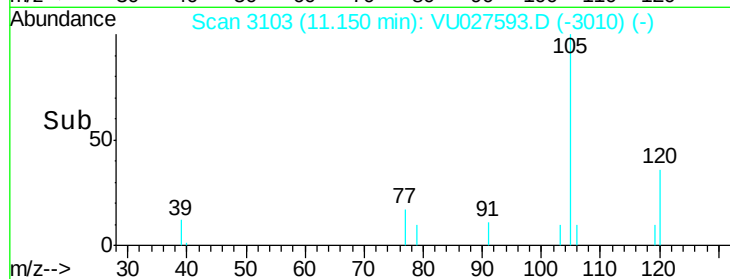
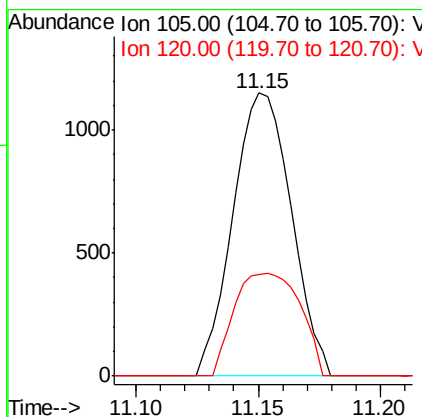
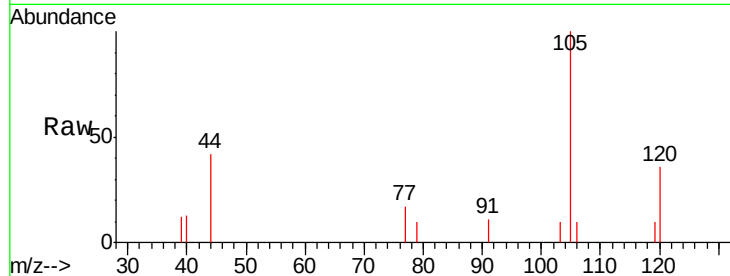
#84
 1,2,4-Trimethylbenzene
 Concen: 0.41 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion:105 Resp: 1907
 Ion Ratio Lower Upper
 105 100
 120 41.2 22.1 66.5

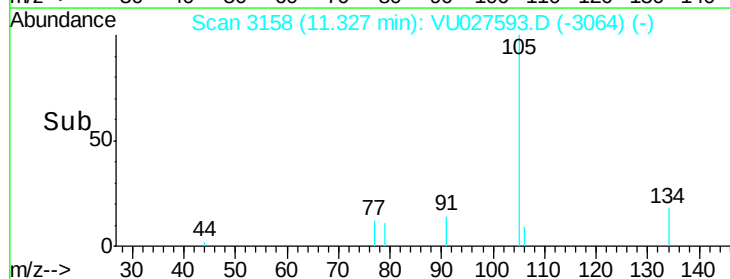
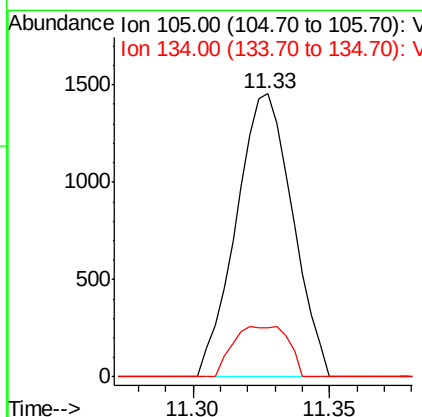
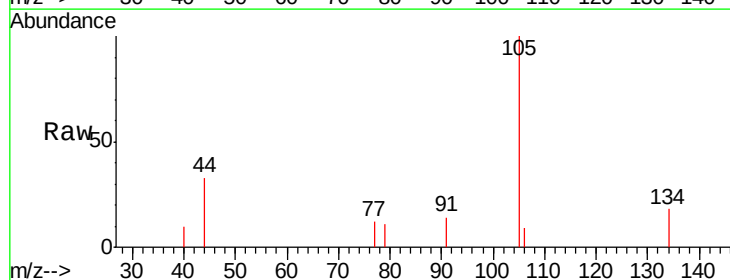
Manual Integrations
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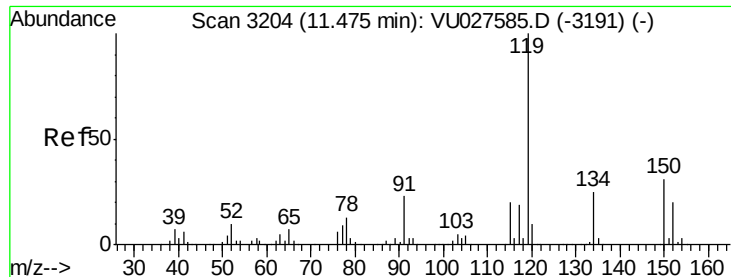
MMDadoda
 10/16/2018 2:22:58 PM



#85
 sec-Butylbenzene
 Concen: 0.68 ug/l
 RT: 11.33 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion:105 Resp: 2087
 Ion Ratio Lower Upper
 105 100
 134 17.4 9.6 28.6





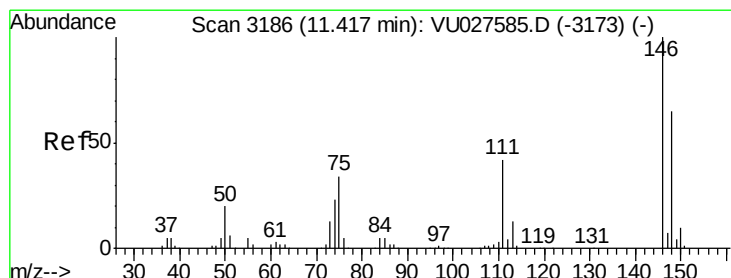
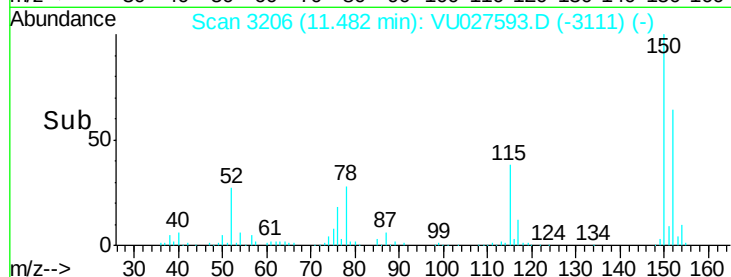
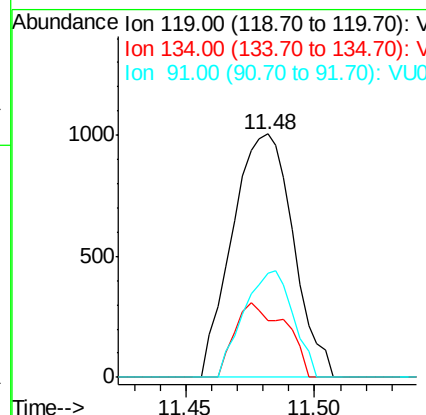
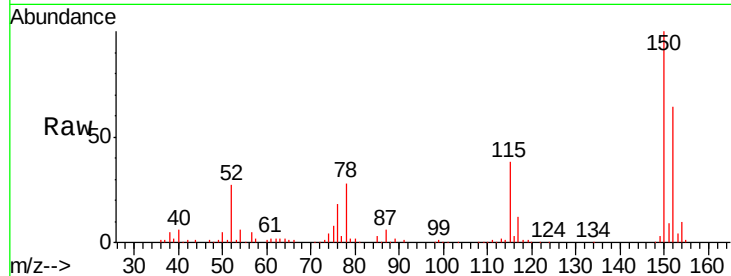
#86
 p-Isopropyltoluene
 Concen: 0.83 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.7	38.1
91	35.6	12.2	36.4

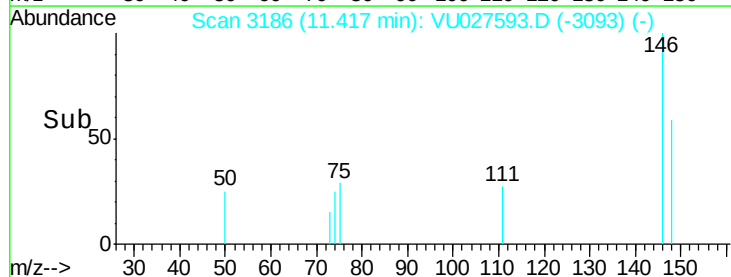
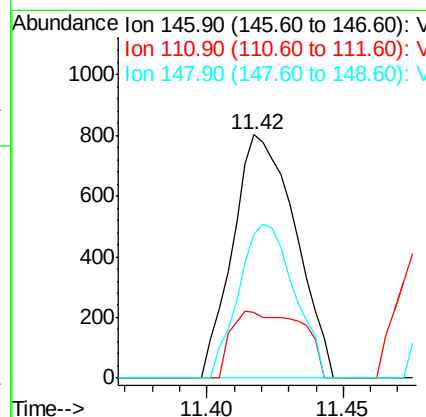
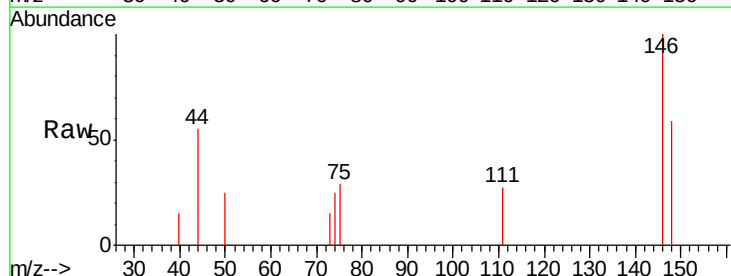
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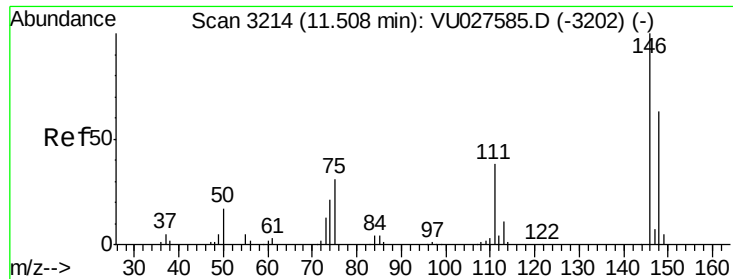
MMDadoda
 10/16/2018 2:22:58 PM



#87
 1,3-Dichlorobenzene
 Concen: 0.57 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. -0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	31.2	20.8	62.5
148	56.1	31.6	94.8





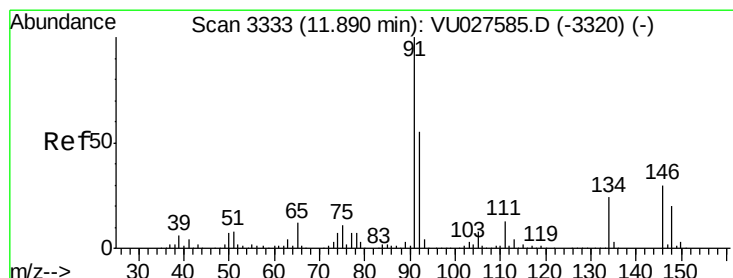
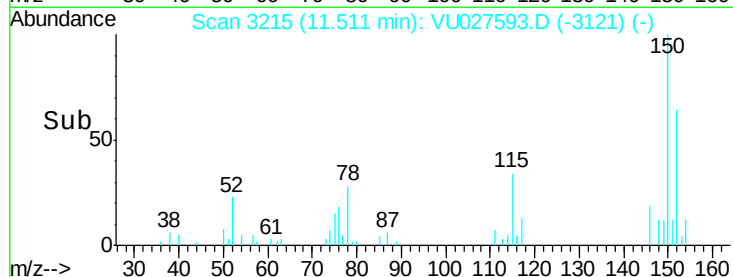
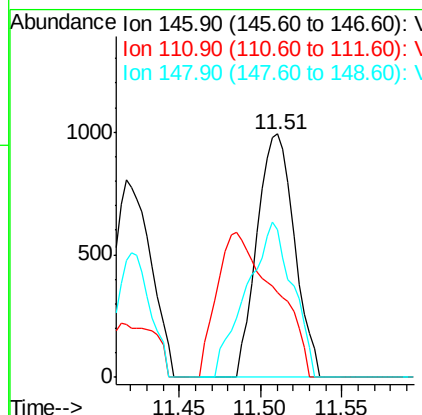
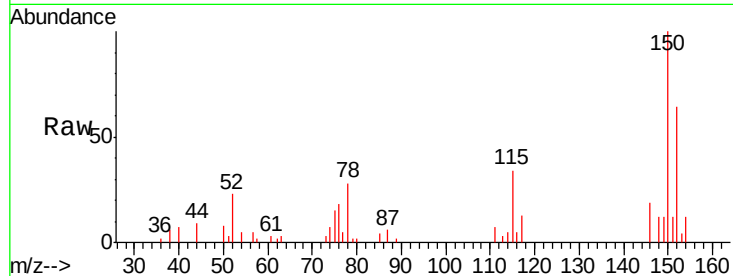
#88
 1,4-Dichlorobenzene
 Concen: 0.66 ug/l m
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
146	100		
111	25.1	20.4	61.2
148	45.3	31.9	95.5

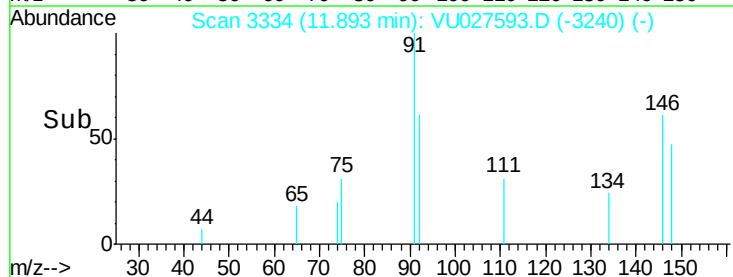
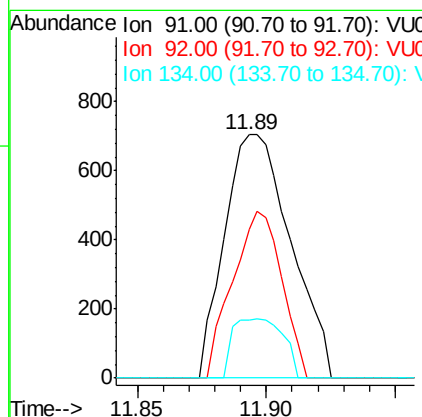
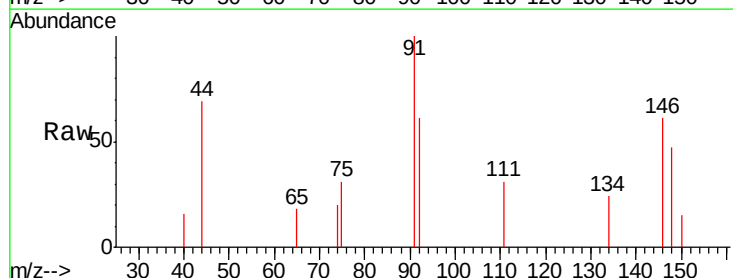
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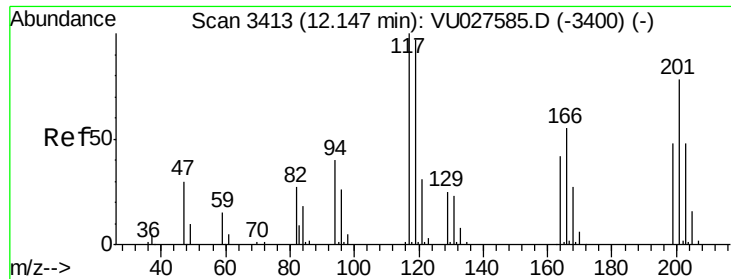
MMDadoda
 10/16/2018 2:22:58 PM



#89
 n-Butylbenzene
 Concen: 1.83 ug/l
 RT: 11.89 min Scan# 3334
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	27.0	81.0
134	18.6	11.7	35.1





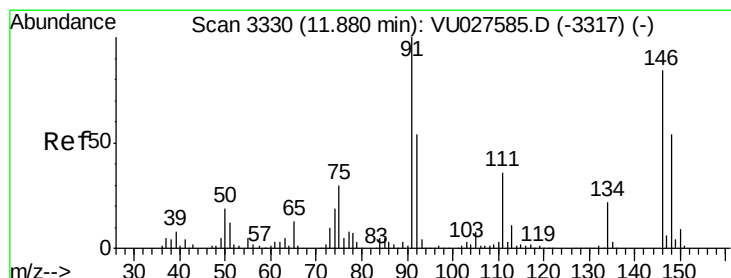
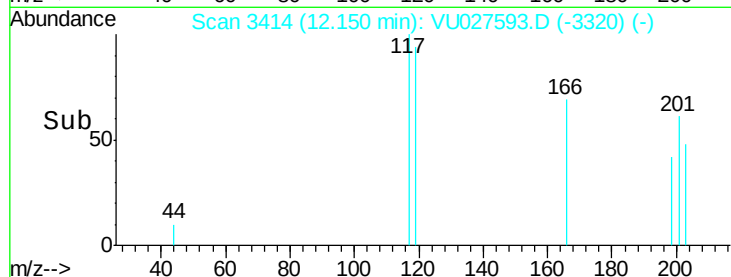
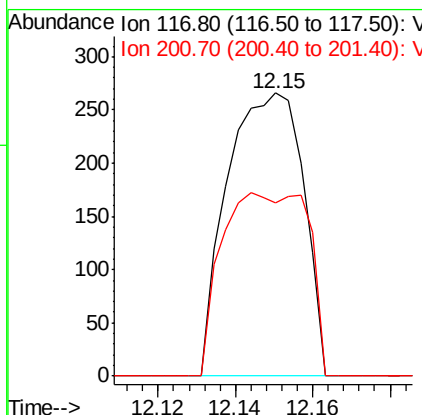
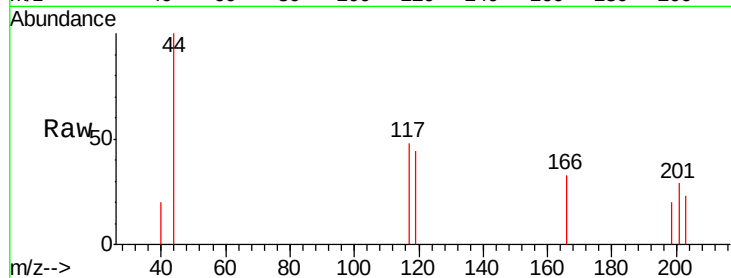
#90
Hexachloroethane
Concen: 0.44 ug/l
RT: 12.15 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

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

Tgt Ion:117 Resp: 362
Ion Ratio Lower Upper
117 100
201 73.8 37.9 113.6

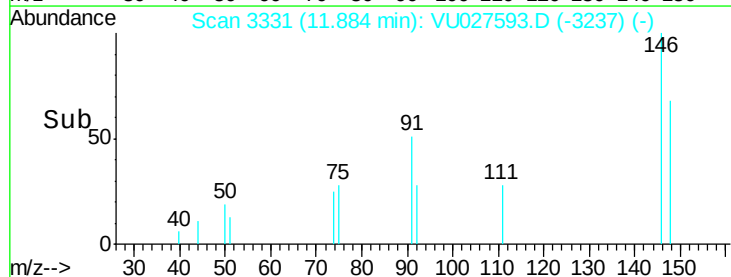
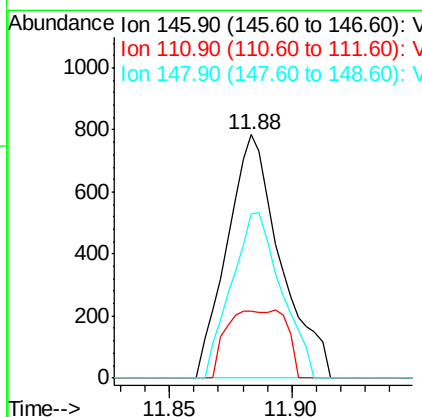
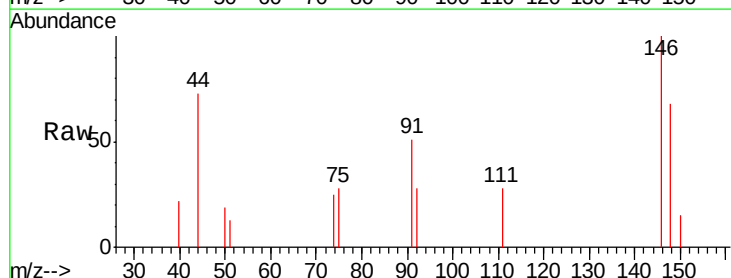
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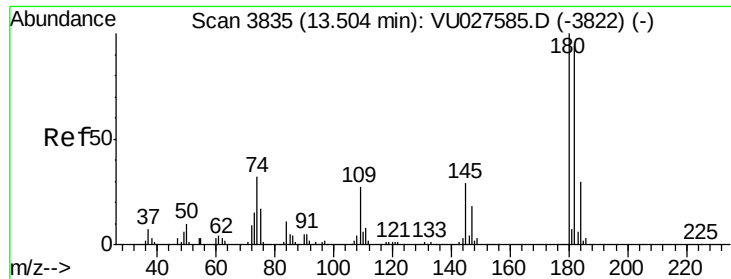
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10/16/2018 2:22:58 PM



#91
1,2-Dichlorobenzene
Concen: 0.52 ug/l
RT: 11.88 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VU027593.D
Acq: 11 Oct 2018 13:00

Tgt Ion:146 Resp: 1189
Ion Ratio Lower Upper
146 100
111 31.2 21.8 65.4
148 63.6 31.9 95.5





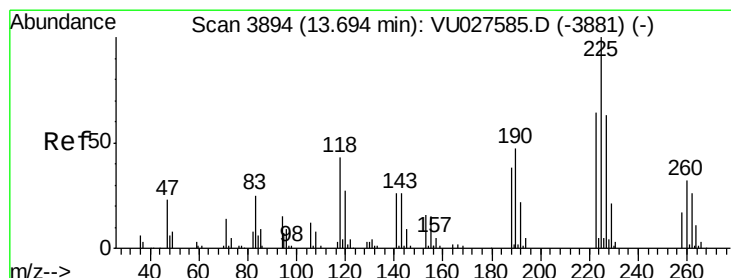
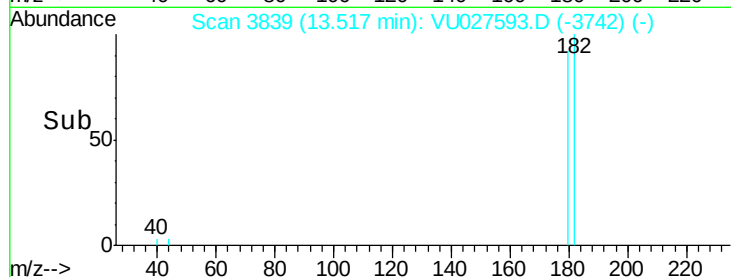
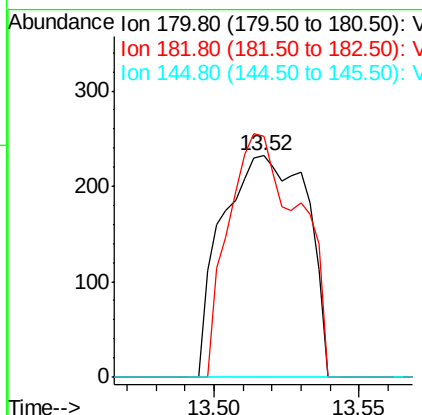
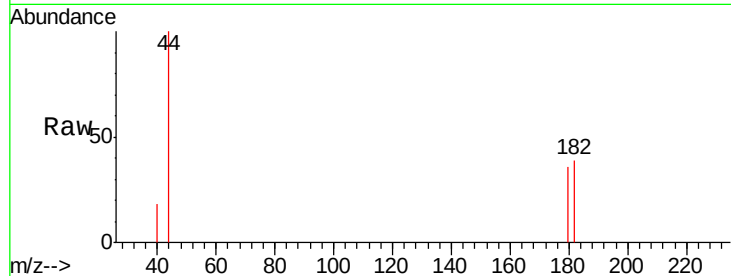
#93
 1,2,4-Trichlorobenzene
 Concen: 1.93 ug/l
 RT: 13.52 min Scan# 3839
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.4	142.3
145	0.0	14.6	44.0#

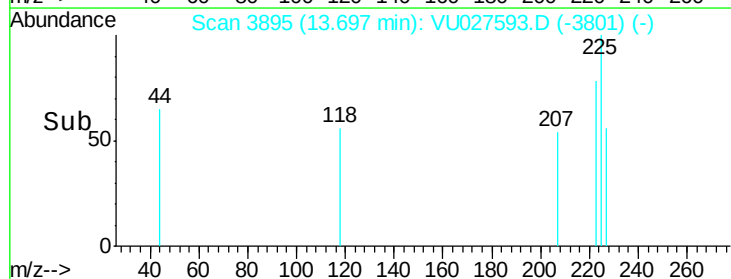
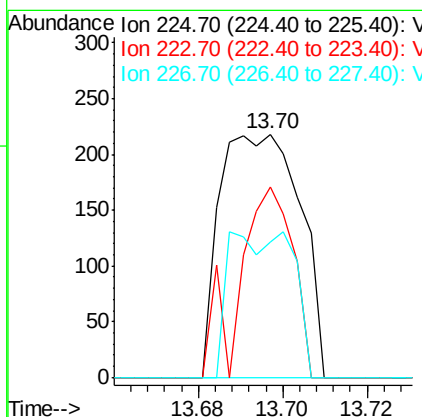
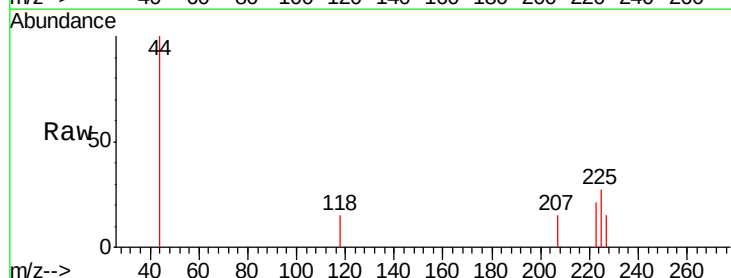
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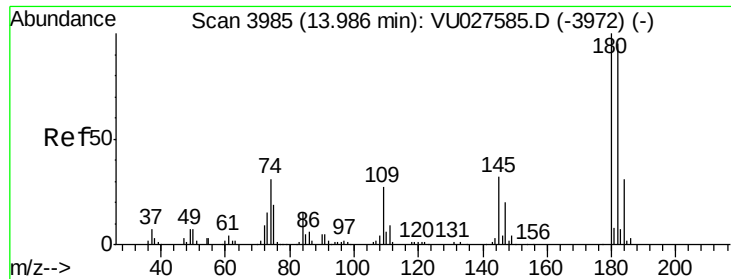
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#94
 Hexachlorobutadiene
 Concen: 0.40 ug/l
 RT: 13.70 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.2	31.8	95.3
227	24.6	31.9	95.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.32 ug/l
 RT: 14.00 min Scan# 3989
 Delta R.T. 0.01 min
 Lab File: VU027593.D
 Acq: 11 Oct 2018 13:00

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	73.6	47.4	142.2
145	0.0	15.9	47.7#

Manual Integrations
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