

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030009.D
 Acq On : 12 Mar 2019 16:19
 Operator : JC/SP
 Sample : K1560-08 LOQ 1ppb
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 LOQ-WATER-02-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 12:56:20 PM

Quant Time: Mar 13 12:28:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	58374	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	19551	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23781	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.20	85	22212	1.038	ug/l	98
3) Chloromethane	1.33	50	24890	1.025	ug/l	99
4) Vinyl Chloride	1.40	62	20905	1.004	ug/l	96
5) Bromomethane	1.63	94	13835	1.163	ug/l	97
6) Chloroethane	1.70	64	13356	1.111	ug/l	97
7) Trichlorofluoromethane	1.89	101	28222	1.045	ug/l	98
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	15287	1.041	ug/l	96
9) 1,1-Dichloroethene	2.28	96	15176	1.042	ug/l	97
10) Iodomethane	2.41	142	13025	1.032	ug/l	98
11) Allyl Chloride	2.59	41	22669	1.101	ug/l	100
12) Acrylonitrile	2.94	53	6544	2.074	ug/l	95
13) Acetone	2.32	43	13685	4.983	ug/l	93
14) Carbon Disulfide	2.48	76	50344	0.992	ug/l	100
15) Methylene Chloride	2.70	84	19864	1.145	ug/l	97
16) trans-1,2-Dichloroethene	2.98	96	18120	1.077	ug/l	95
17) 1,1-Dichloroethane	3.44	63	29923	1.052	ug/l	99
18) 2-Butanone	4.28	43	17511	4.606	ug/l	98
19) Cyclohexane	4.99	56	24269m	0.996	ug/l	
20) Methylcyclohexane	6.41	83	26806	0.997	ug/l	98
21) 2,2-Dichloropropane	4.22	77	24614	1.029	ug/l	95
22) cis-1,2-Dichloroethene	4.22	96	18787	1.005	ug/l	97
23) Diethyl Ether	2.10	59	11339	1.042	ug/l	94
24) tert-Butyl Alcohol	2.83	59	12173	10.452	ug/l	99
25) Methyl tert-Butyl Ether	3.00	73	37895	1.030	ug/l	94
26) Bromochloromethane	4.55	128	8651	1.058	ug/l	97
27) Chloroform	4.67	83	30619	1.023	ug/l	96
28) 1,1,1-Trichloroethane	4.91	97	25631	1.041	ug/l	98
29) 1,1-Dichloropropene	5.13	75	22130	0.988	ug/l	98
30) Carbon Tetrachloride	5.13	117	21275	0.967	ug/l	94
31) Isopropyl Ether	3.58	45	41118	1.028	ug/l	97
32) Ethyl-t-butyl ether	4.07	59	37747	0.979	ug/l	97
33) Tert-Amyl methyl ether	5.58	73	35126	0.995	ug/l	99
34) Propionitrile	4.34	54	5231	4.936	ug/l #	86
35) Benzene	5.39	78	66794	1.019	ug/l	98
36) 1,2-Dichloroethane	5.40	62	17820	1.017	ug/l	100
37) Trichloroethene	6.18	130	19616	1.039	ug/l	91
38) 1,2-Dichloropropane	6.43	63	16845	1.011	ug/l	96
39) Methacrylonitrile	4.55	41	4020	0.870	ug/l #	94
40) Methyl acrylate	4.43	55	7169	0.982	ug/l #	86
41) Tetrahydrofuran	4.66	42	4481	1.753	ug/l	94
42) 1-Chlorobutane	5.06	56	29009	0.988	ug/l	99

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 LOQ-WATER-02-QT1-2019

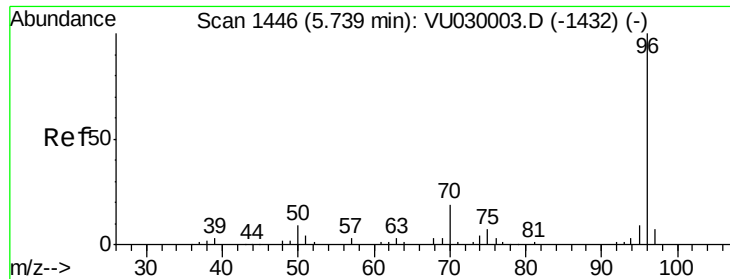
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Quant Time: Mar 13 12:28:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.56	93	8750	1.015	ug/l	98
44) Bromodichloromethane	6.76	83	20367	0.990	ug/l	99
45) 4-Methyl-2-Pentanone	7.46	43	41819	4.909	ug/l	98
46) t-1,4-Dichloro-2-butene	10.52	75	5768m	2.570	ug/l	
47) Methyl methacrylate	6.63	69	13821	1.913	ug/l	94
48) Ethyl methacrylate	8.02	69	13861	1.017	ug/l	96
49) Toluene	7.63	92	38332	0.970	ug/l	100
50) t-1,3-Dichloropropene	7.88	75	17379	0.943	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	21965	0.949	ug/l #	90
52) 1,1,2-Trichloroethane	8.06	97	12232	1.003	ug/l	97
53) 1,3-Dichloropropane	8.24	76	20474	1.004	ug/l	100
54) 2-Hexanone	8.37	43	29605	4.823	ug/l	95
55) Dibromochloromethane	8.47	129	14318	0.976	ug/l	95
56) 1,2-Dibromoethane	8.59	107	11398	0.972	ug/l	96
58) Tetrachloroethene	8.22	164	18326	1.069	ug/l	97
59) Chlorobenzene	9.12	112	44718	0.991	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.20	131	16196	1.016	ug/l	99
61) Pentachloroethane	11.10	117	11822	0.961	ug/l	99
62) Hexachloroethane	12.14	117	11878	0.958	ug/l	99
63) Ethyl Benzene	9.25	91	70597	0.952	ug/l	100
64) m/p-Xylenes	9.37	106	55894	1.916	ug/l	96
65) o-Xylene	9.78	106	27798	0.972	ug/l	99
66) Styrene	9.79	104	43682	0.932	ug/l	98
67) Bromoform	9.96	173	8264	0.986	ug/l	99
69) Isopropylbenzene	10.16	105	71359	0.957	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	15675	1.043	ug/l	97
71) 1,2,3-Trichloropropane	10.49	75	10705m	0.948	ug/l	
72) Bromobenzene	10.45	156	18843	0.963	ug/l	95
73) n-propylbenzene	10.58	120	19504	0.922	ug/l	95
74) 2-Chlorotoluene	10.66	126	18232	0.984	ug/l	98
75) 1,3,5-Trimethylbenzene	10.77	105	59482	0.936	ug/l	99
76) 4-Chlorotoluene	10.77	126	18909	1.000	ug/l	89
77) tert-Butylbenzene	11.10	119	59464	0.956	ug/l	99
78) 1,2,4-Trimethylbenzene	11.14	105	62257	0.963	ug/l	98
79) sec-Butylbenzene	11.32	105	81470	0.978	ug/l	99
81) p-Isopropyltoluene	11.47	119	66879	0.957	ug/l	97
82) 1,3-Dichlorobenzene	11.41	146	40757	1.032	ug/l	98
83) 1,4-Dichlorobenzene	11.50	146	38303	0.964	ug/l	98
84) n-Butylbenzene	11.89	91	60940	0.933	ug/l	98
85) 1,2-Dichlorobenzene	11.88	146	37365	1.016	ug/l	100
86) 1,2-Dibromo-3-Chloropropan	12.65	75	2231	1.031	ug/l	90
87) 1,2,4-Trichlorobenzene	13.50	180	23063	0.869	ug/l	96
88) Hexachlorobutadiene	13.69	225	16474	1.145	ug/l	96
89) Naphthalene	13.74	128	35512	0.854	ug/l	98
90) 1,2,3-Trichlorobenzene	13.99	180	23627	0.983	ug/l	96

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

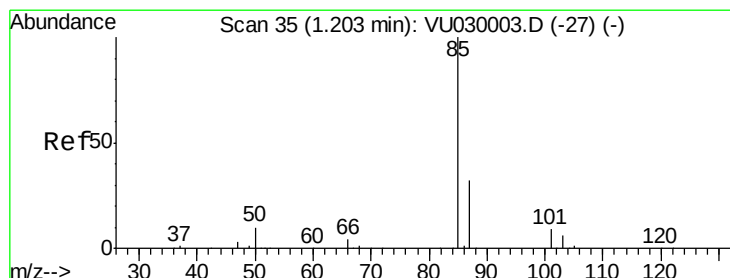
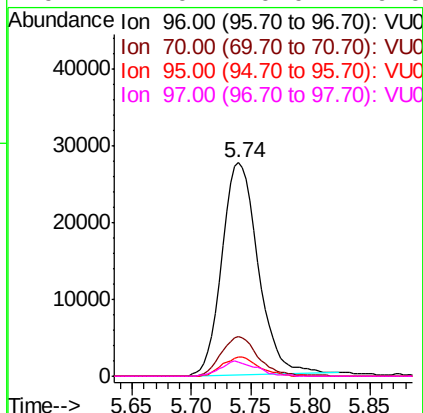
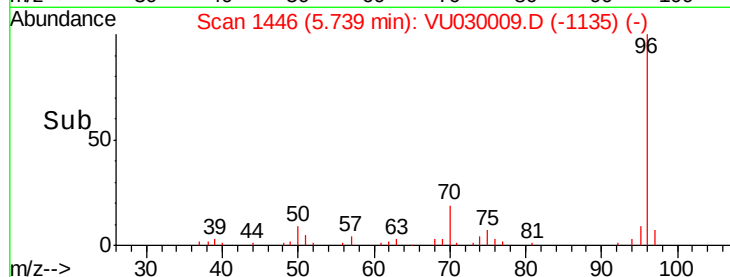
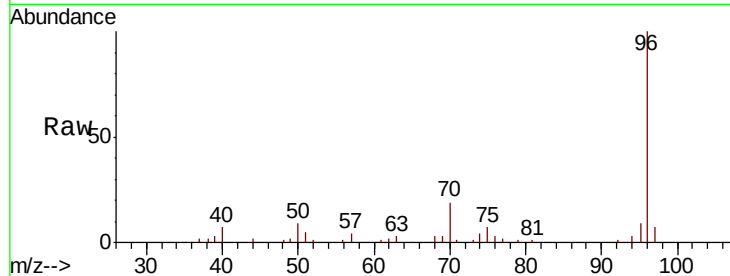
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:	96	Resp:	58374
Ion Ratio	Lower	Upper	
96	100		
70	18.3	15.5	23.3
95	9.0	6.6	9.8
97	7.0	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 1.038 ug/l

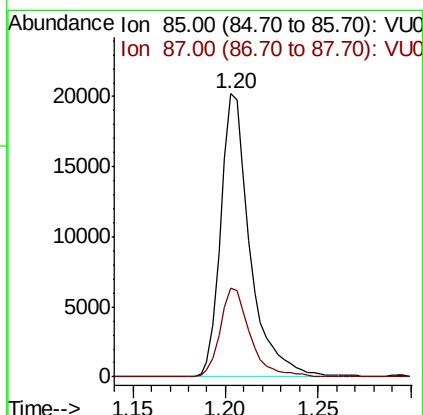
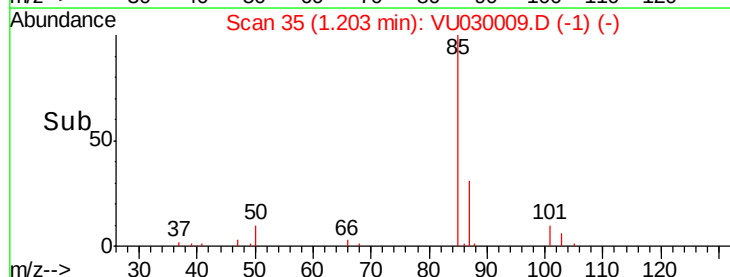
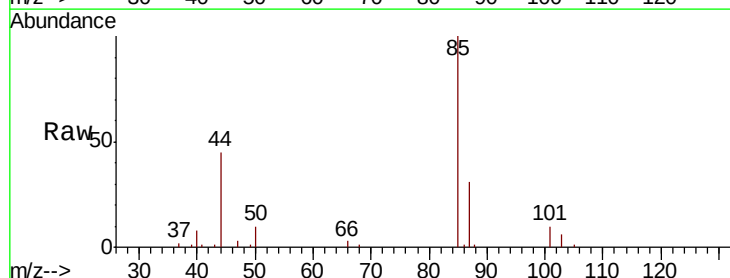
RT: 1.20 min Scan# 35

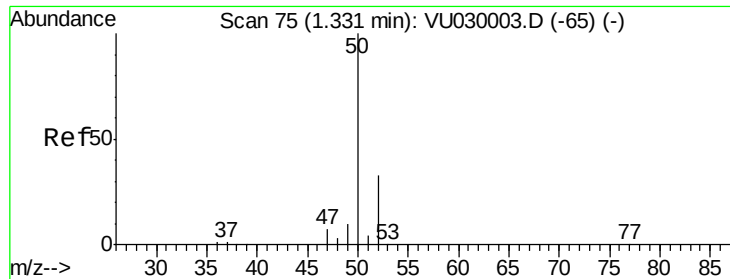
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	85	Resp:	22212
Ion Ratio	Lower	Upper	
85	100		
87	31.2	16.2	48.6





#3

Chloromethane

Concen: 1.025 ug/l

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 50 Resp: 24890

Ion Ratio Lower Upper

50 100

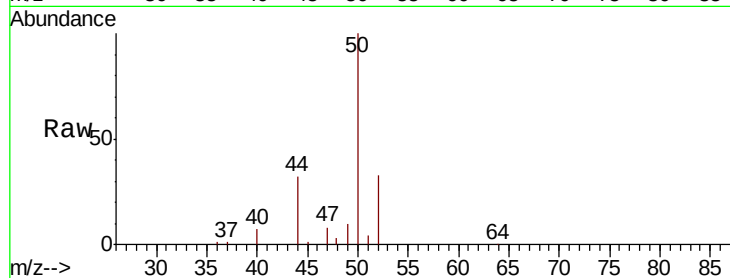
52 33.1 26.1 39.1

Manual Integrations

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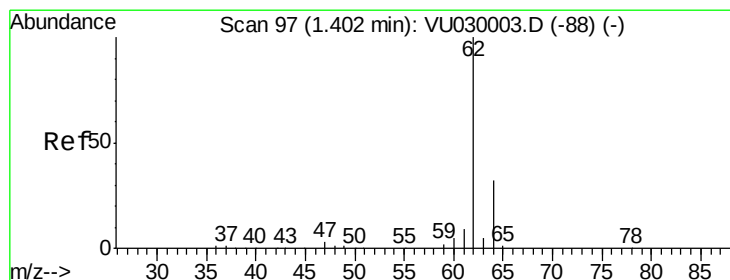
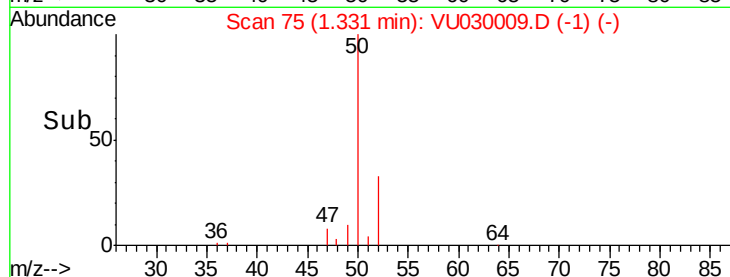
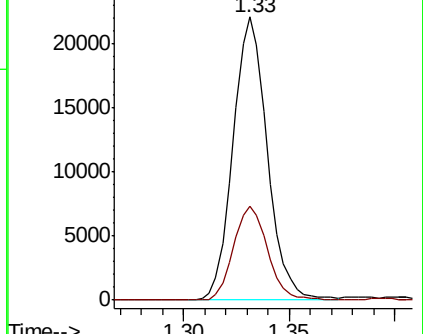
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Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 1.004 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030009.D

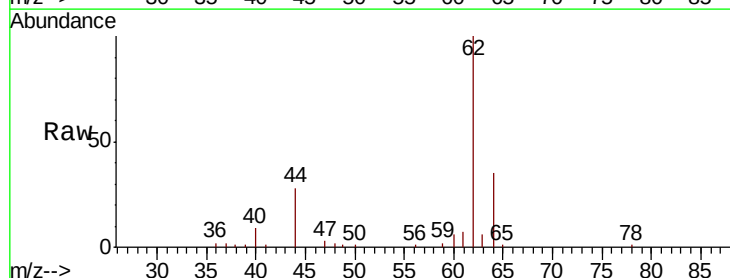
Acq: 12 Mar 2019 16:19

Tgt Ion: 62 Resp: 20905

Ion Ratio Lower Upper

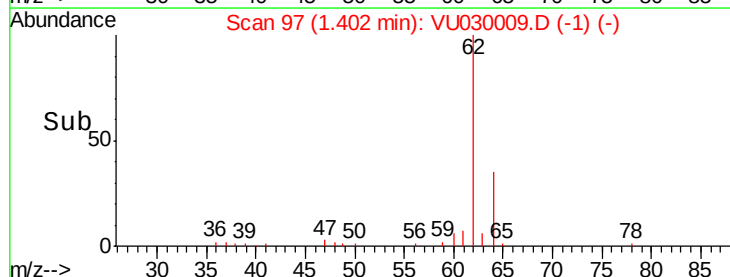
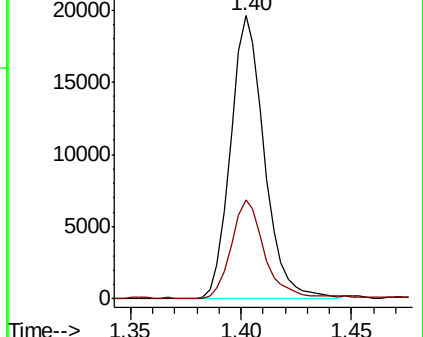
62 100

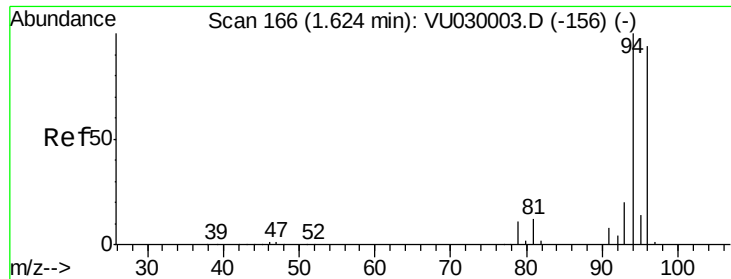
64 34.9 26.0 39.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





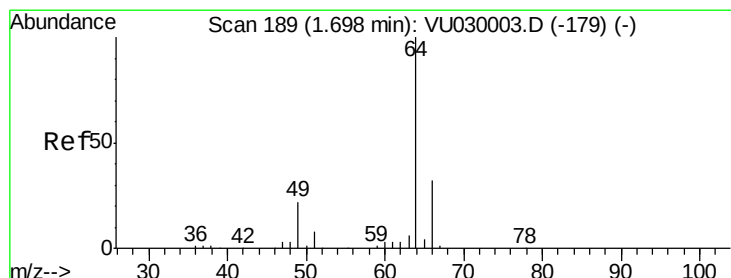
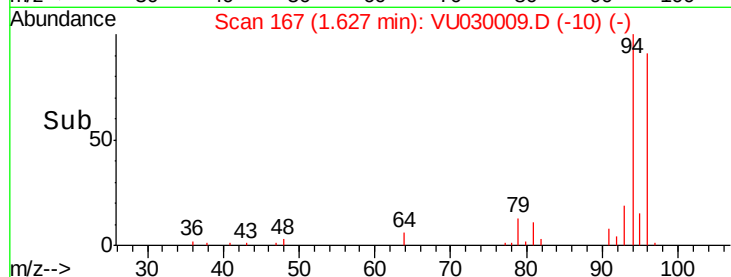
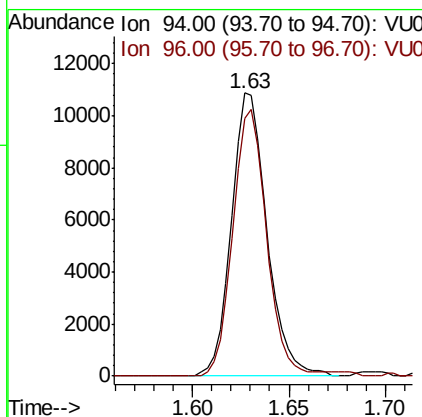
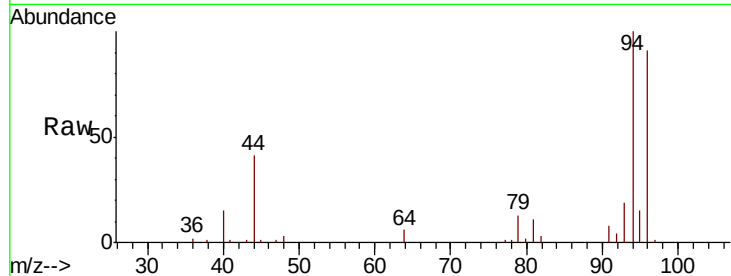
#5
Bromomethane
Concen: 1.163 ug/l
RT: 1.63 min Scan# 167
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion: 94 Resp: 13835
Ion Ratio Lower Upper
94 100
96 91.1 75.2 112.8

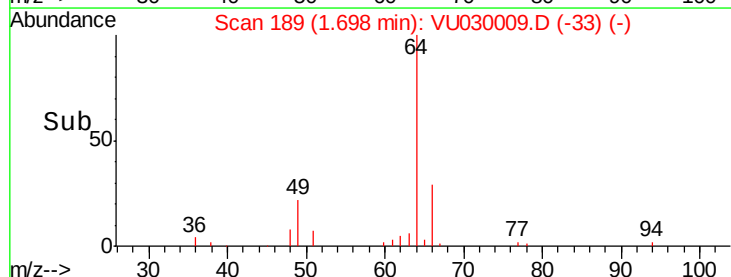
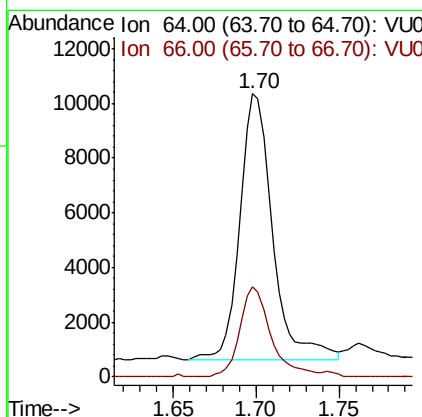
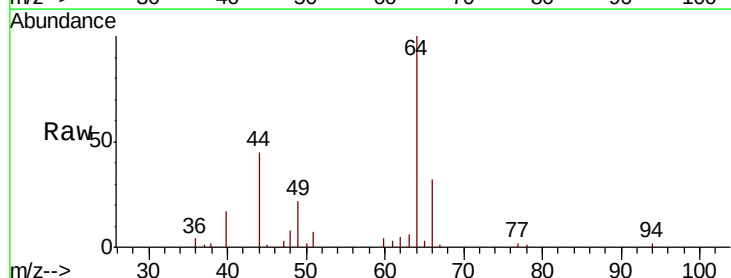
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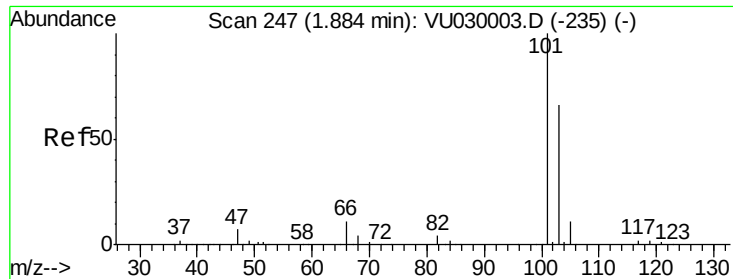
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#6
Chloroethane
Concen: 1.111 ug/l
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion: 64 Resp: 13356
Ion Ratio Lower Upper
64 100
66 34.0 25.8 38.6





#7

Trichlorofluoromethane

Concen: 1.045 ug/l

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:101 Resp: 28222

Ion Ratio Lower Upper

101 100

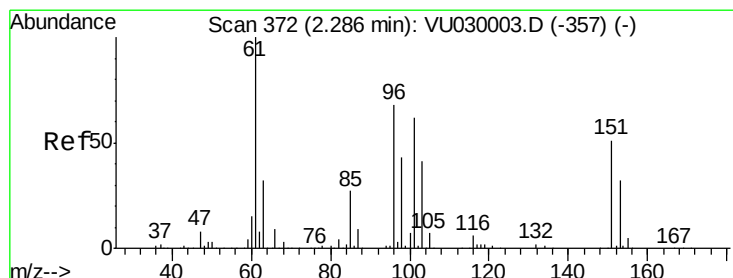
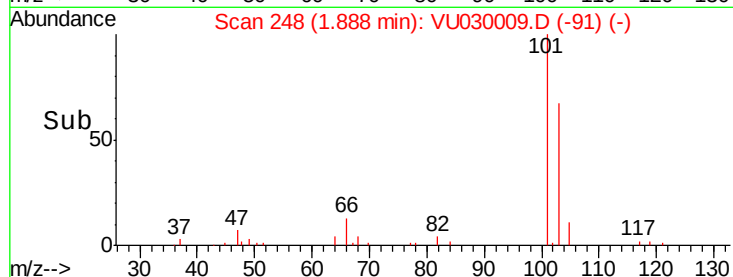
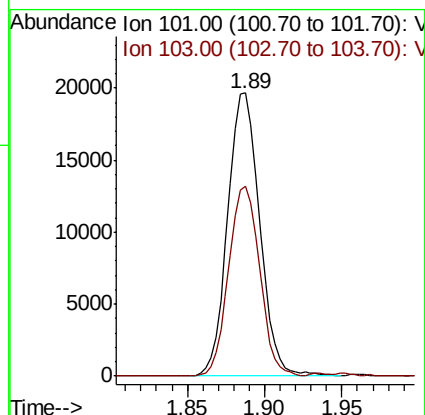
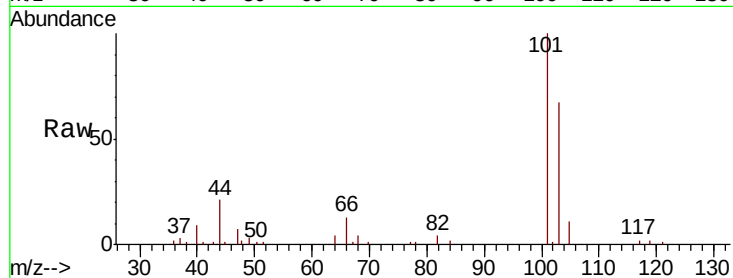
103 67.2 52.6 79.0

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#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.041 ug/l

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

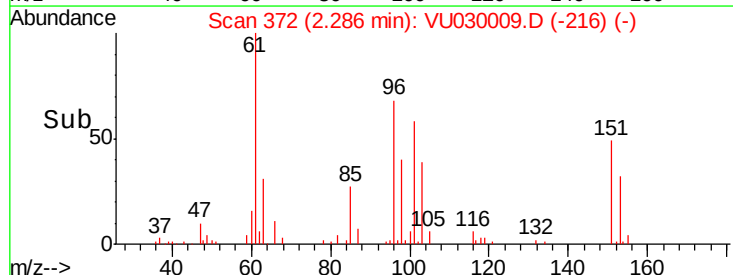
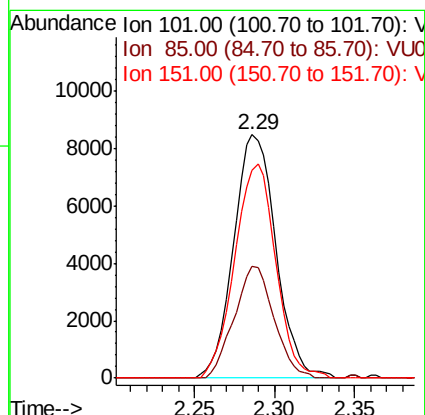
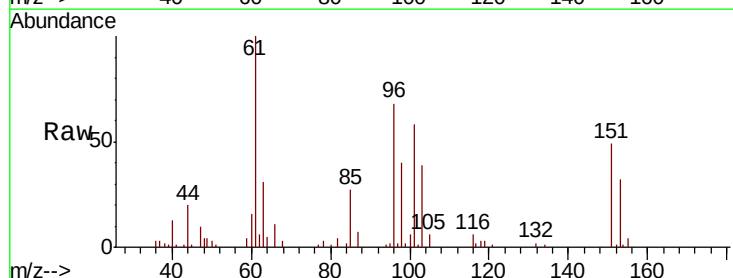
Tgt Ion:101 Resp: 15287

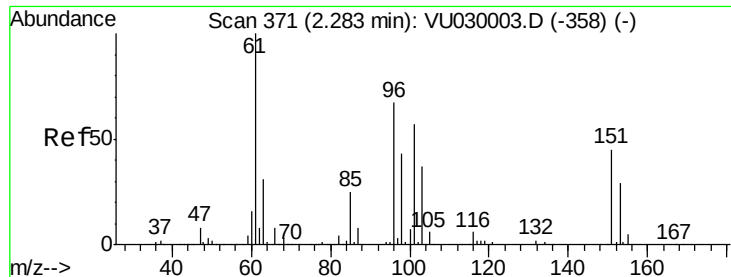
Ion Ratio Lower Upper

101 100

85 42.9 33.6 50.4

151 85.4 65.0 97.4





#9

1,1-Dichloroethene

Concen: 1.042 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

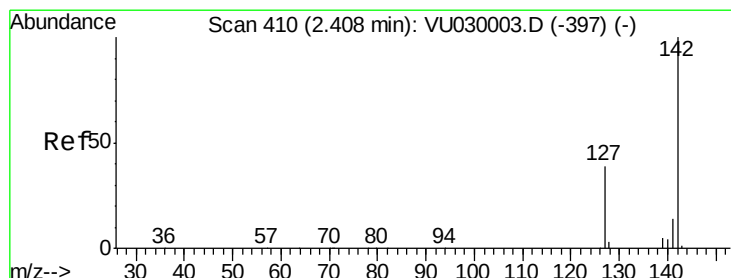
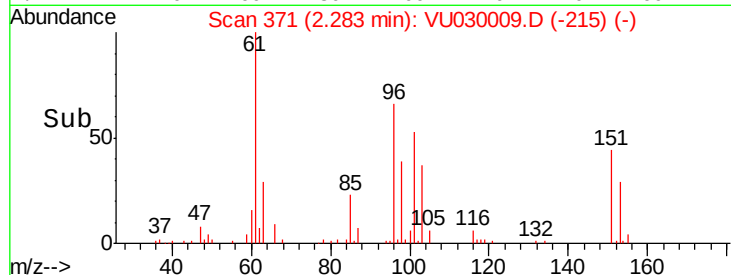
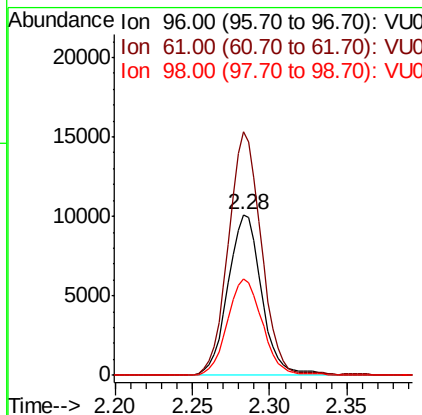
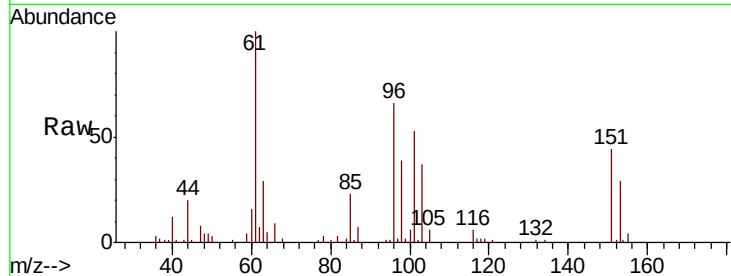
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:	96	Resp:	15176
Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	447.0
98	59.6	0.0	129.2

Manual Integrations
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#10

Iodomethane

Concen: 1.032 ug/l

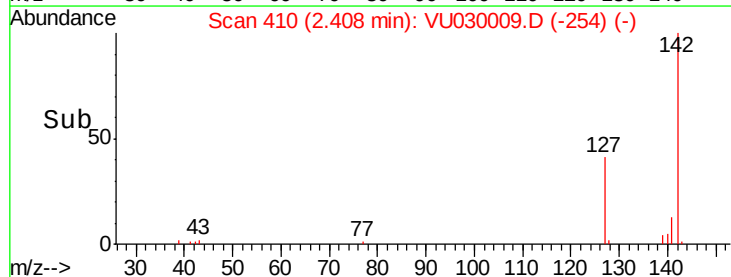
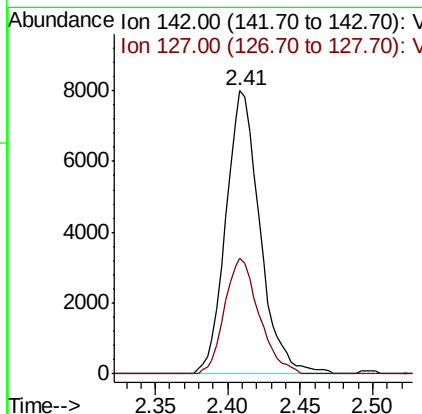
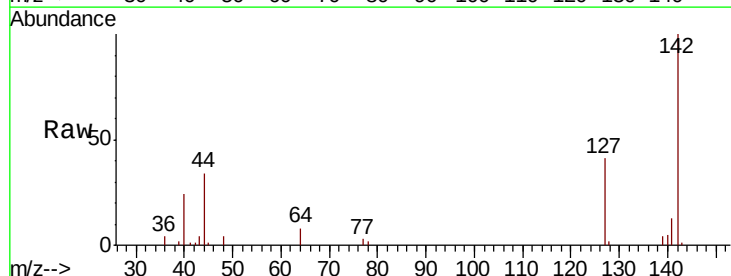
RT: 2.41 min Scan# 410

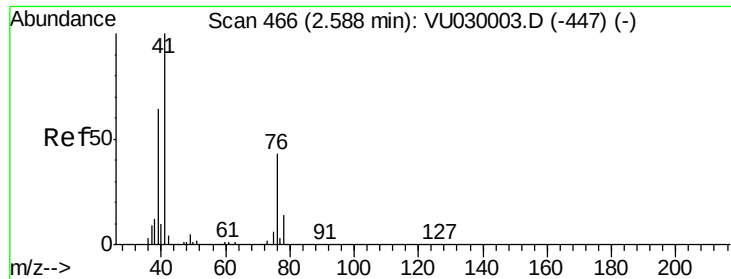
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	142	Resp:	13025
Ion	Ratio	Lower	Upper
142	100		
127	41.3	32.2	48.4





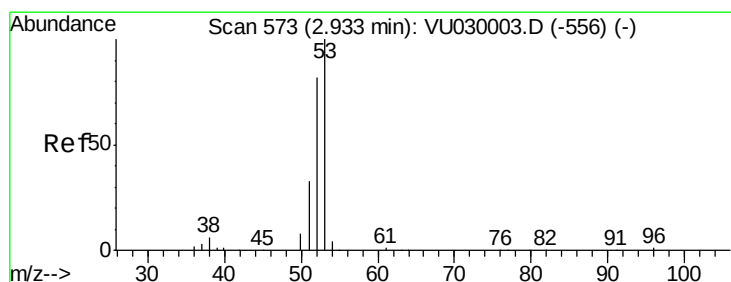
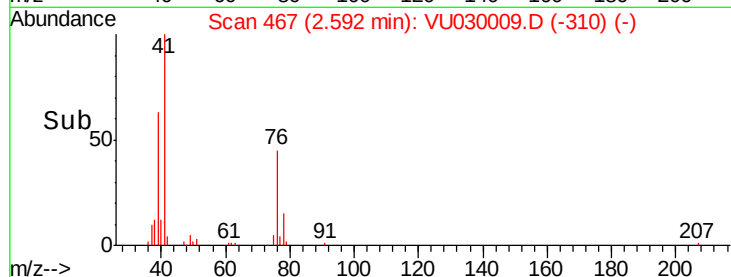
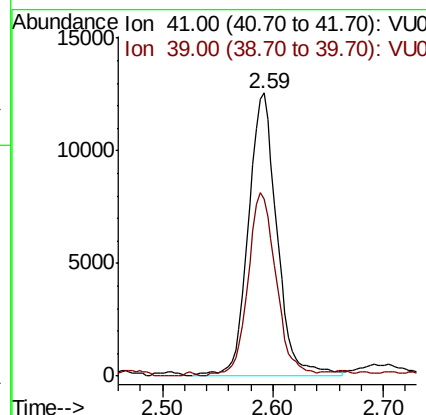
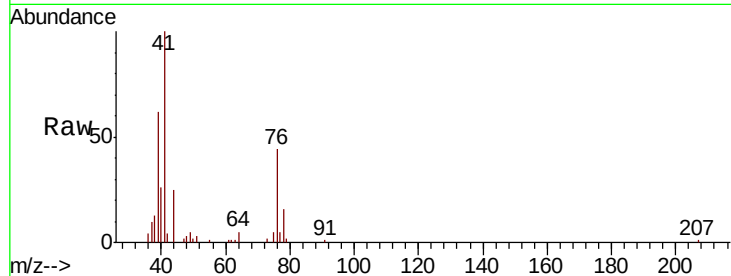
#11
 Allyl Chloride
 Concen: 1.101 ug/l
 RT: 2.59 min Scan# 467
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion: 41 Resp: 22669
 Ion Ratio Lower Upper
 41 100
 39 63.7 50.8 76.2

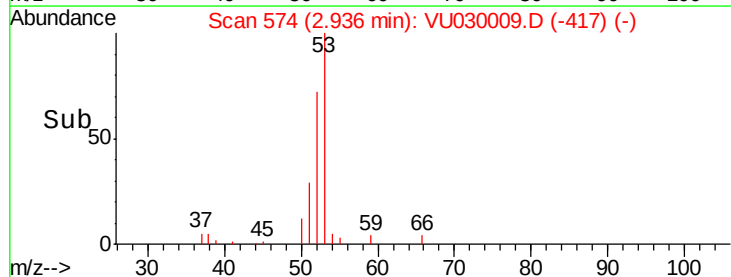
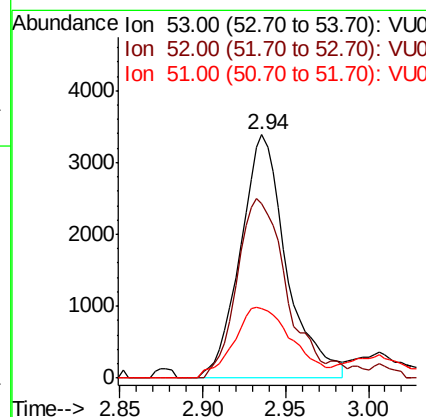
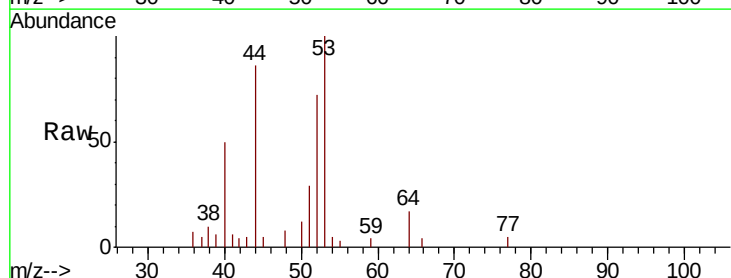
Manual Integrations
 APPROVED

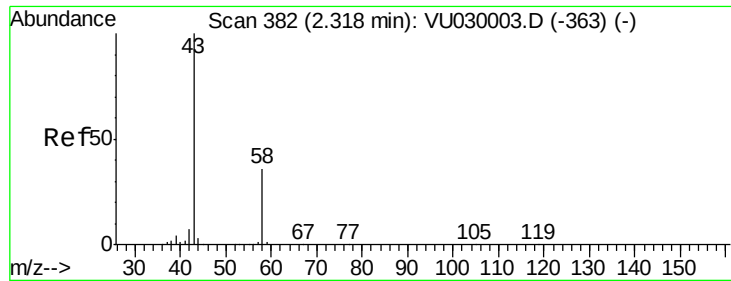
MMDadoda
 3/13/2019 12:56:20 PM



#12
 Acrylonitrile
 Concen: 2.074 ug/l
 RT: 2.94 min Scan# 574
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion: 53 Resp: 6544
 Ion Ratio Lower Upper
 53 100
 52 78.4 66.3 99.5
 51 37.0 26.9 40.3





#13

Acetone

Concen: 4.983 ug/l

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 43 Resp: 13685

Ion Ratio Lower Upper

43 100

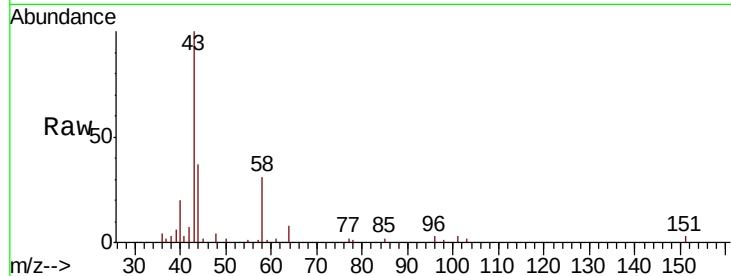
58 31.9 28.6 43.0

Manual Integrations

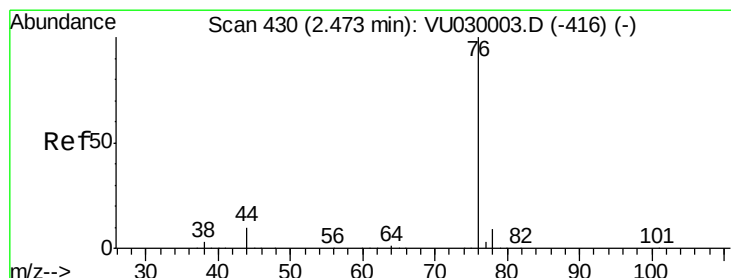
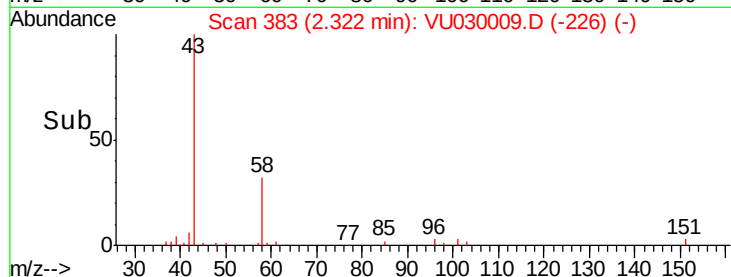
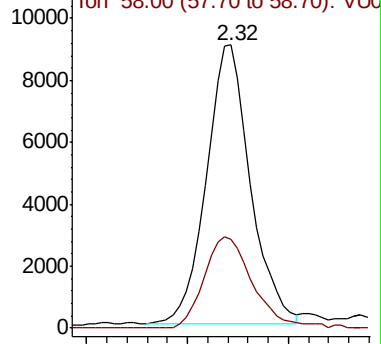
APPROVED

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Abundance Ion 43.00 (42.70 to 43.70): VU030009.D (-226) (-)



#14

Carbon Disulfide

Concen: 0.992 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030009.D

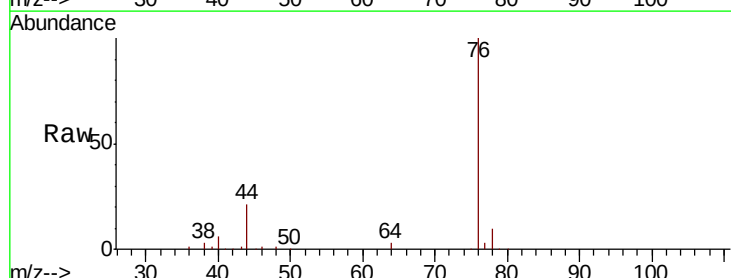
Acq: 12 Mar 2019 16:19

Tgt Ion: 76 Resp: 50344

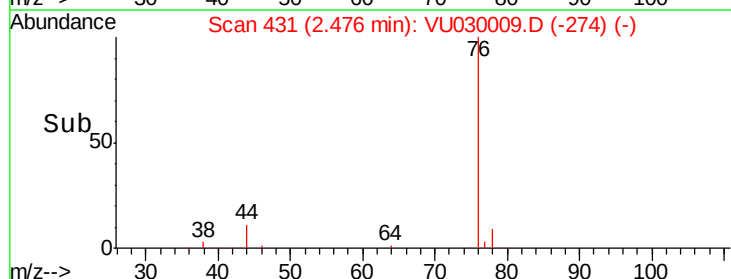
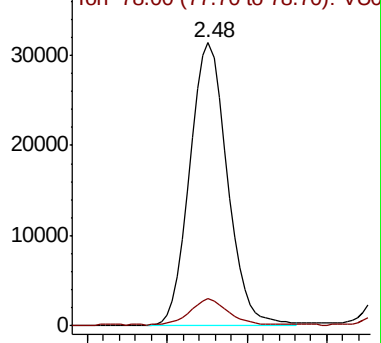
Ion Ratio Lower Upper

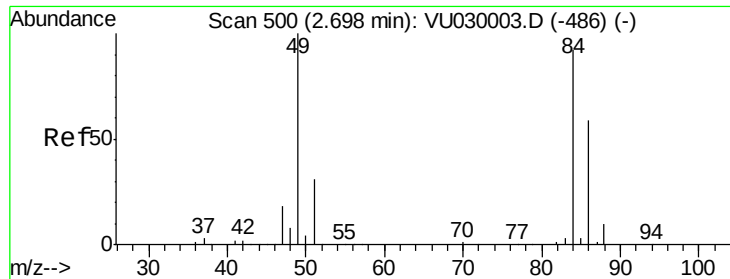
76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU030009.D (-274) (-)





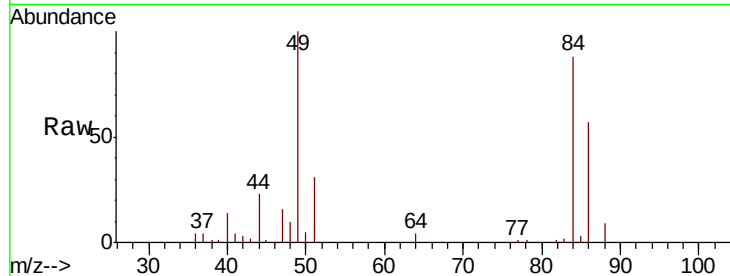
#15
Methylene Chloride
Concen: 1.145 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

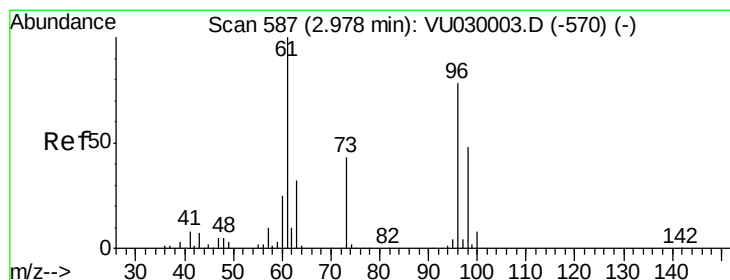
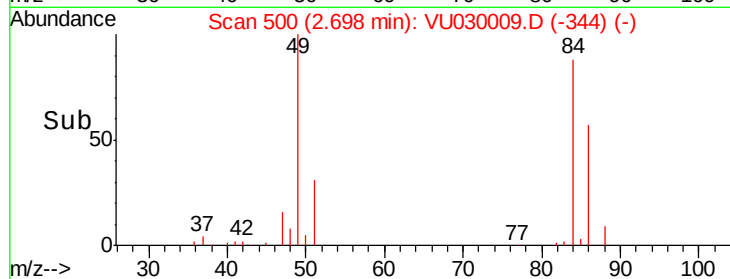
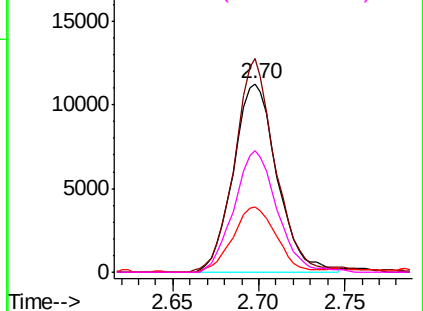
Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.2	86.5	129.7
51	34.6	0.0	66.8
86	64.5	51.2	76.8

Manual Integrations
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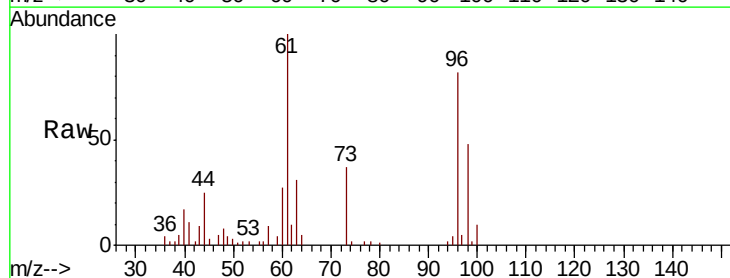


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 49.00 (48.70 to 49.70): VU0
Ion 51.00 (50.70 to 51.70): VU0
Ion 86.00 (85.70 to 86.70): VU0

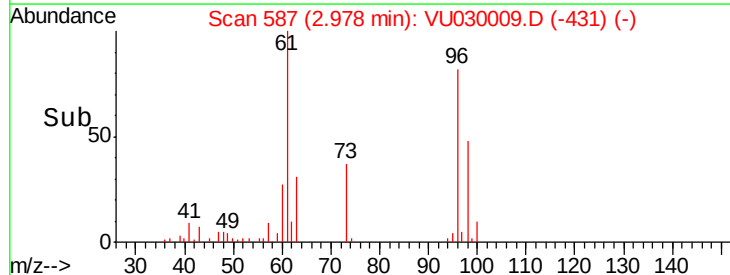
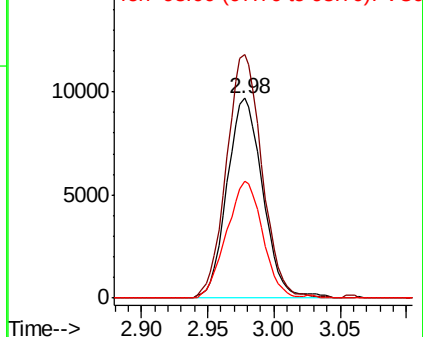


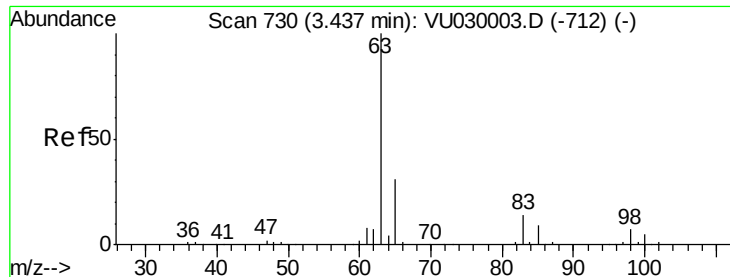
#16
trans-1,2-Dichloroethene
Concen: 1.077 ug/l
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	121.9	103.0	154.6
98	58.6	49.5	74.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0





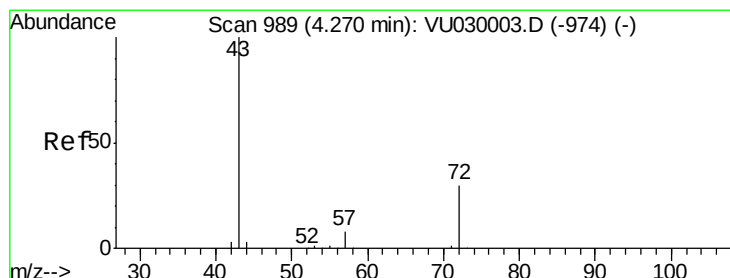
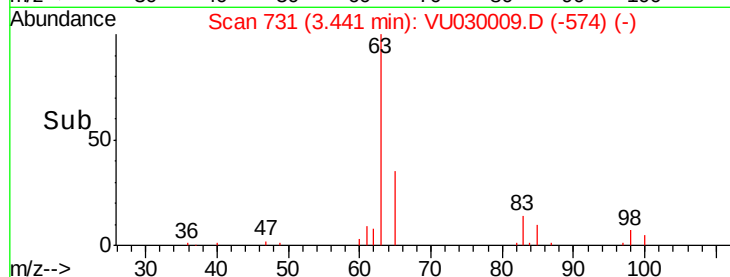
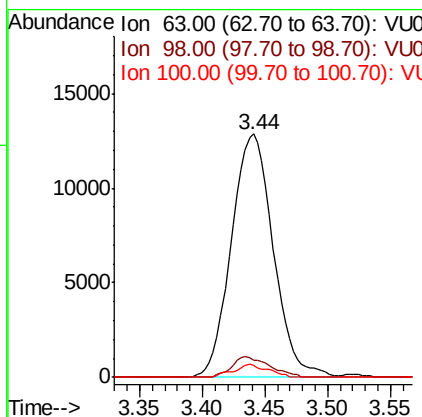
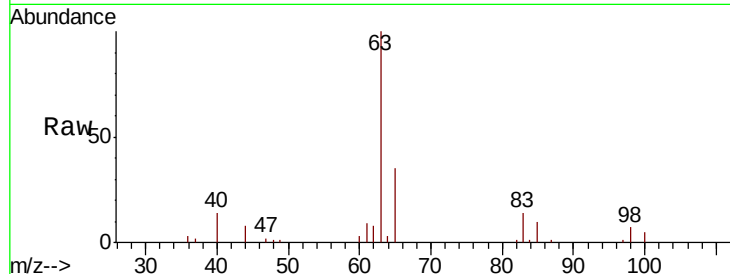
#17
 1,1-Dichloroethane
 Concen: 1.052 ug/l
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	29923		
98	7.2		3.4	10.2
100	4.7		2.3	6.8

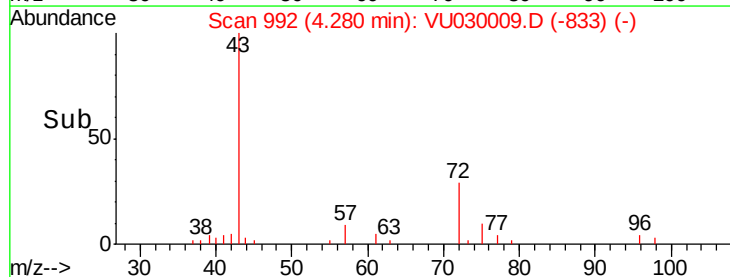
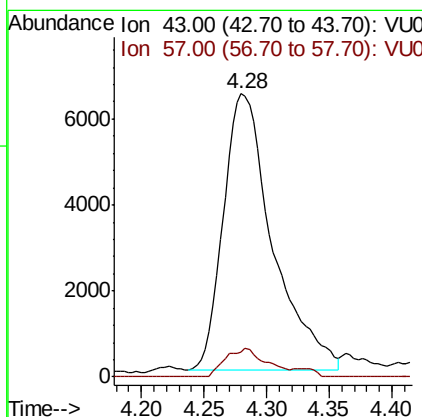
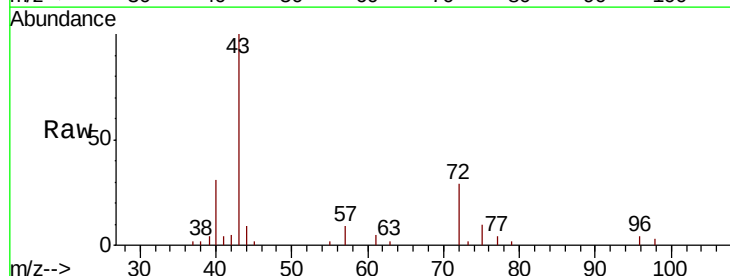
Manual Integrations
 APPROVED

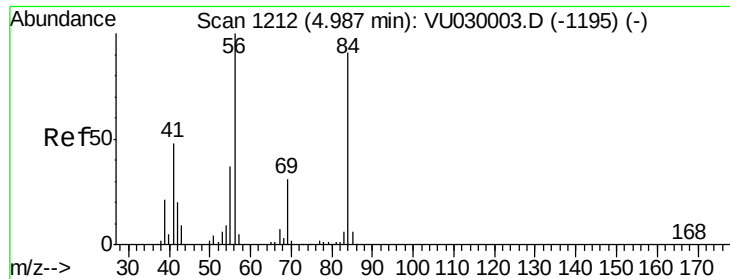
MMDadoda
 3/13/2019 12:56:20 PM



#18
 2-Butanone
 Concen: 4.606 ug/l
 RT: 4.28 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	17511		
57	9.2		0.0	16.8





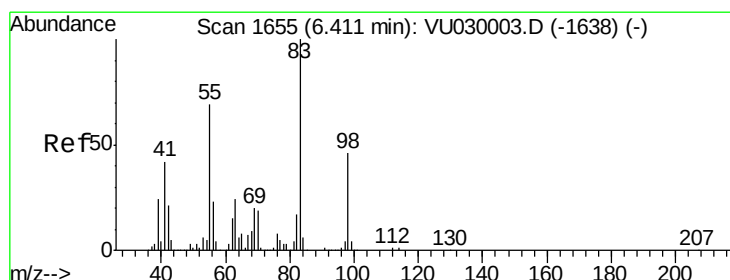
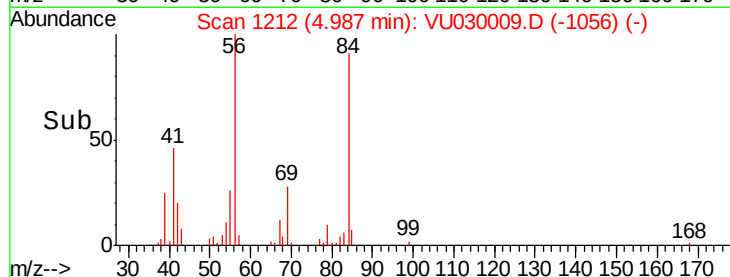
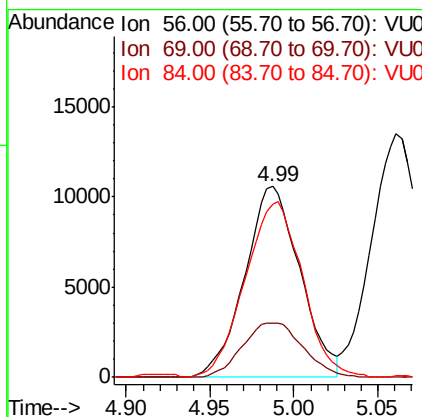
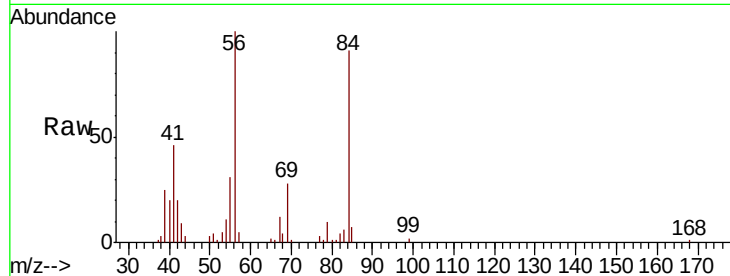
#19
Cyclohexane
Concen: 0.996 ug/l m
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.2	25.7	38.5
84	95.1	72.9	109.3

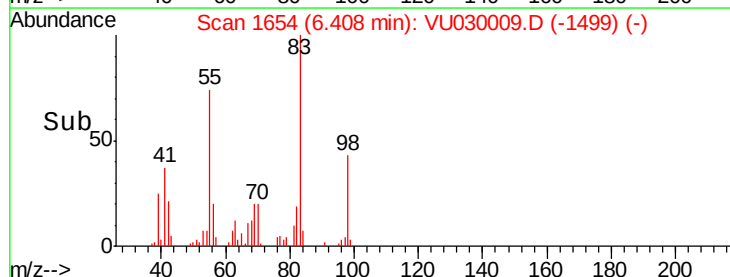
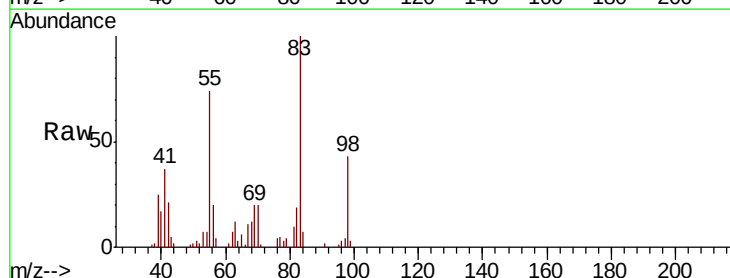
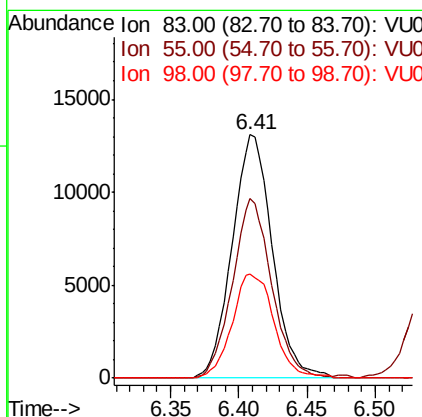
Manual Integrations
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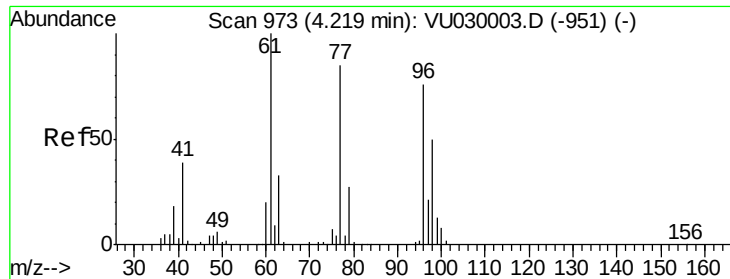
MMDadoda
3/13/2019 12:56:20 PM



#20
Methylcyclohexane
Concen: 0.997 ug/l
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
83	100		
55	70.7	55.6	83.4
98	44.4	37.4	56.0





#21

2,2-Dichloropropane

Concen: 1.029 ug/l

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 77 Resp: 24614

Ion Ratio Lower Upper

77 100

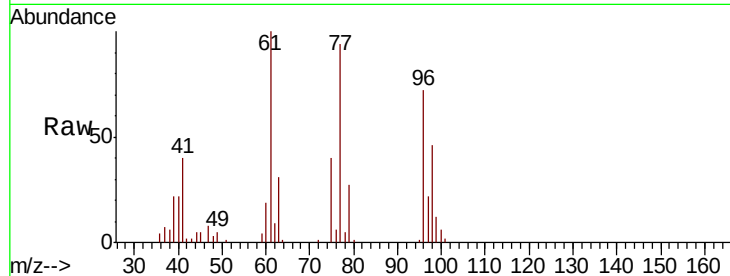
97 23.0 20.2 30.4

Manual Integrations

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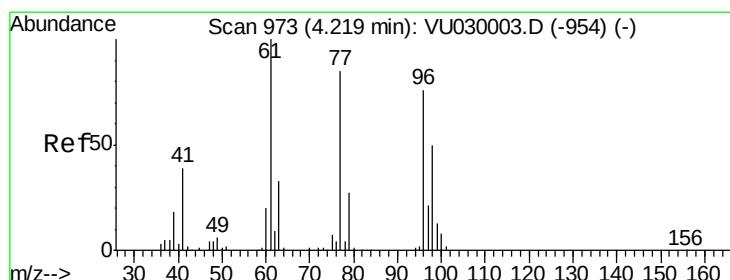
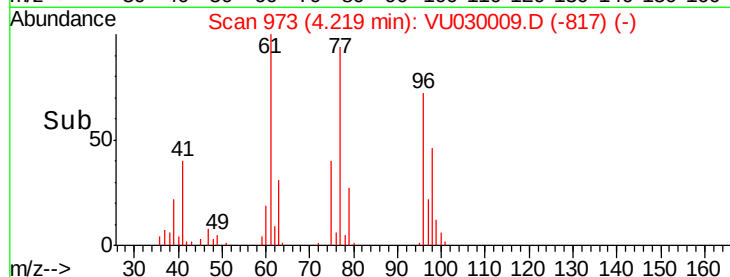
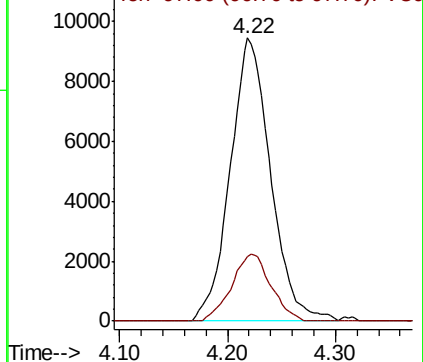
MMDadoda

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Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#22

cis-1,2-Dichloroethene

Concen: 1.005 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

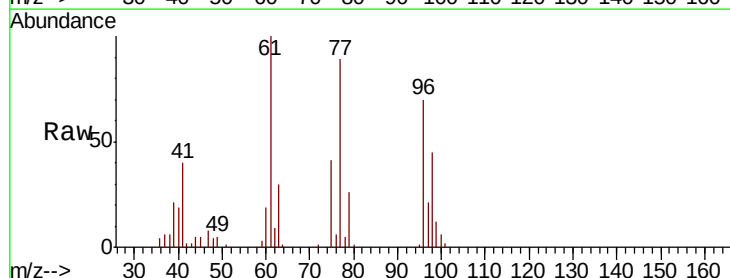
Tgt Ion: 96 Resp: 18787

Ion Ratio Lower Upper

96 100

61 136.6 0.0 335.8

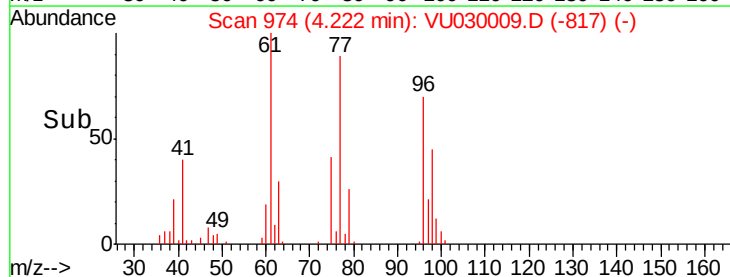
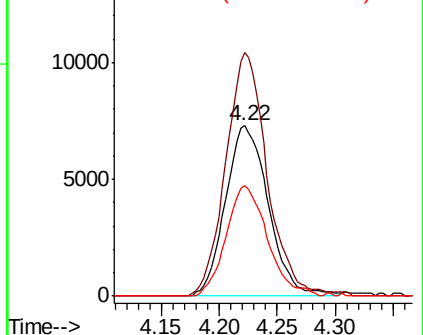
98 61.9 32.6 97.7

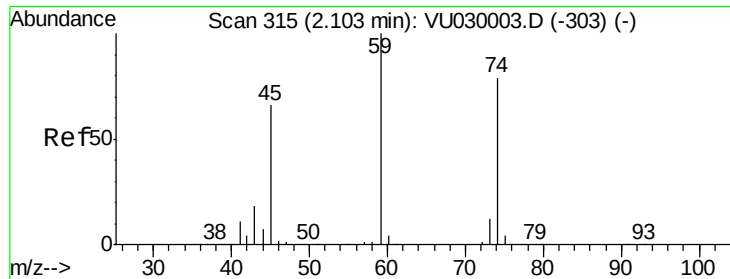


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





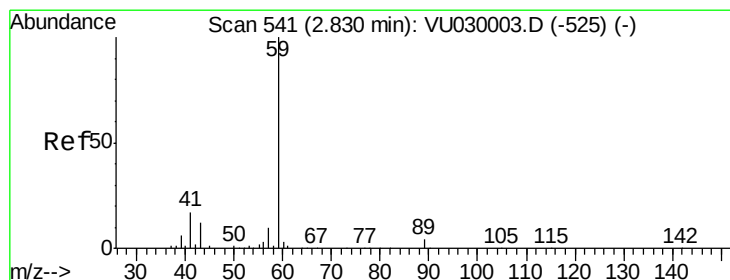
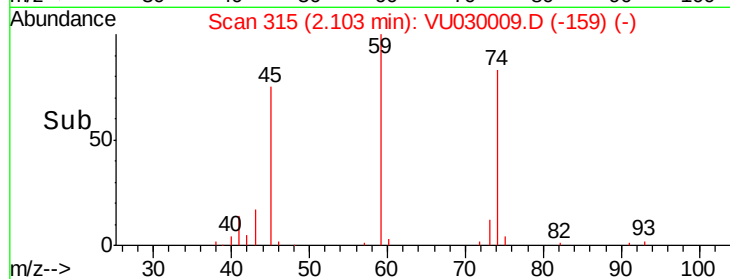
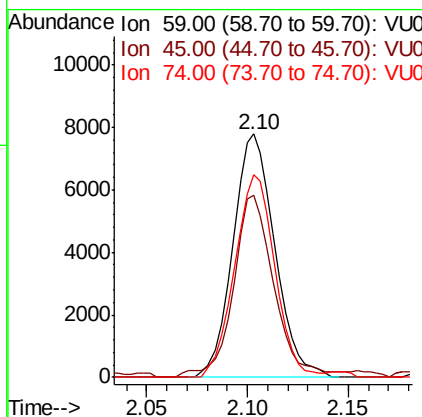
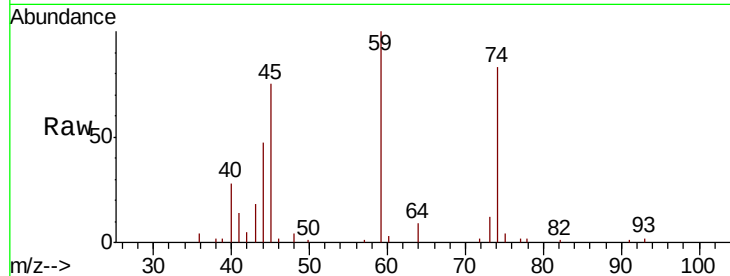
#23
Diethyl Ether
Concen: 1.042 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
59	100		
45	72.2	52.3	78.5
74	79.7	61.1	91.7

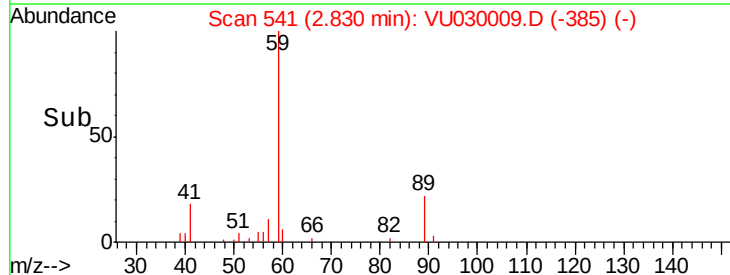
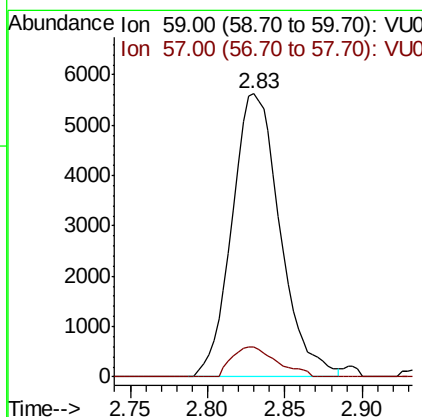
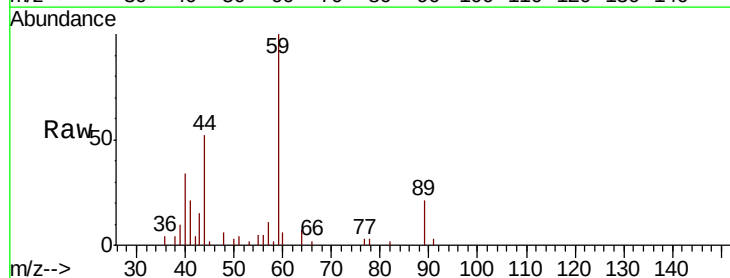
Manual Integrations
APPROVED

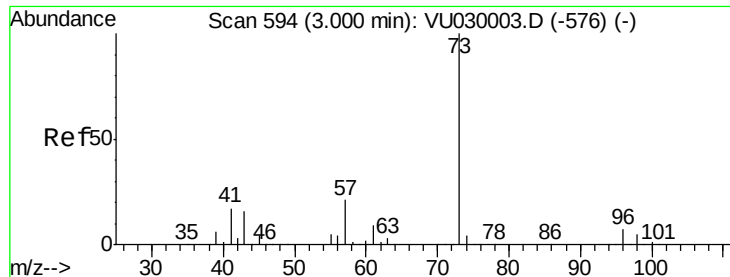
MMDadoda
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#24
tert-Butyl Alcohol
Concen: 10.452 ug/l
RT: 2.83 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.7	11.5





#25

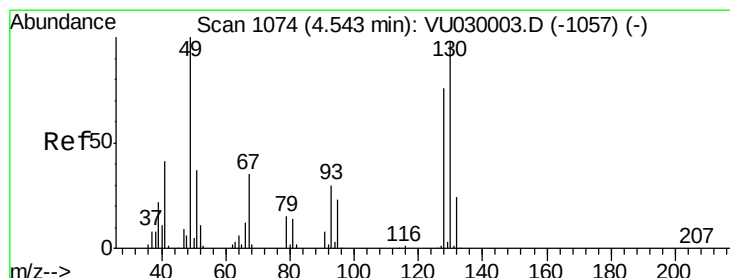
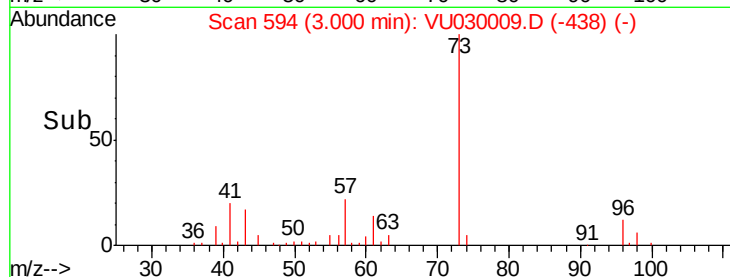
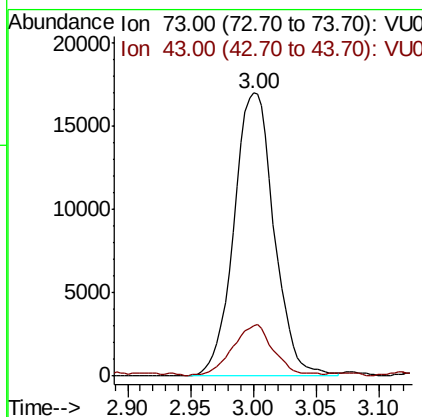
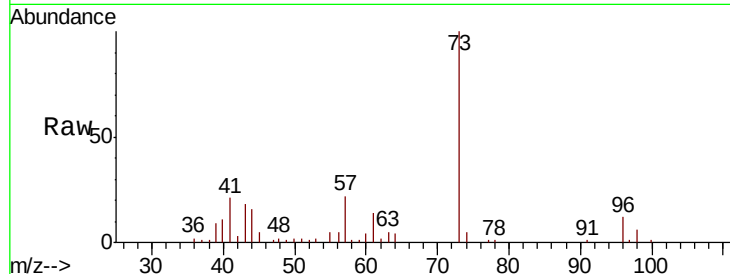
Methyl tert-Butyl Ether
Concen: 1.030 ug/l
RT: 3.00 min Scan# 594
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.0	13.1	19.7

Manual Integrations
APPROVED

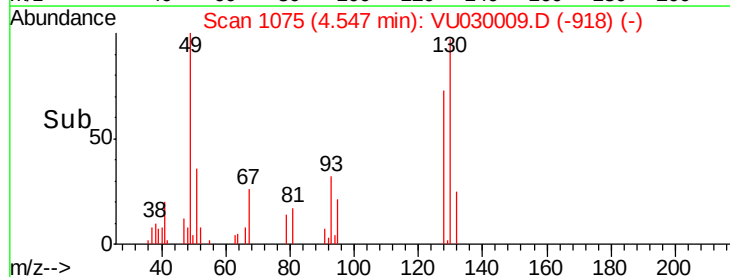
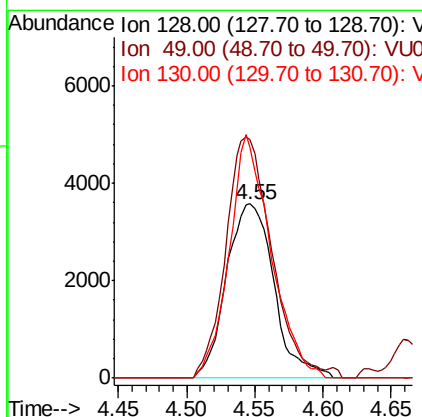
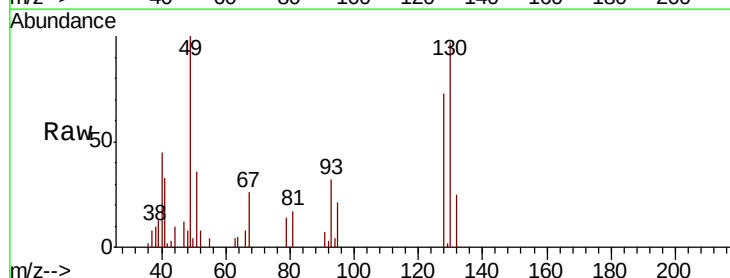
MMDadoda
3/13/2019 12:56:20 PM

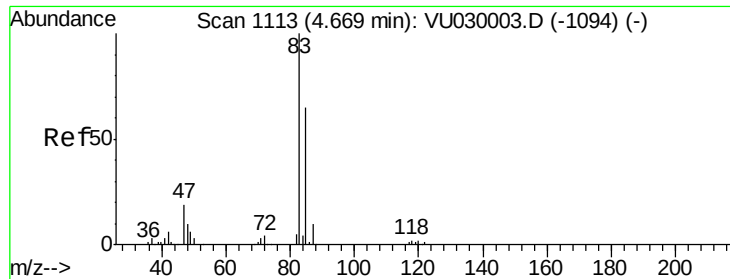


#26

Bromochloromethane
Concen: 1.058 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
128	100		
49	134.1	0.0	270.4
130	122.8	102.6	153.8





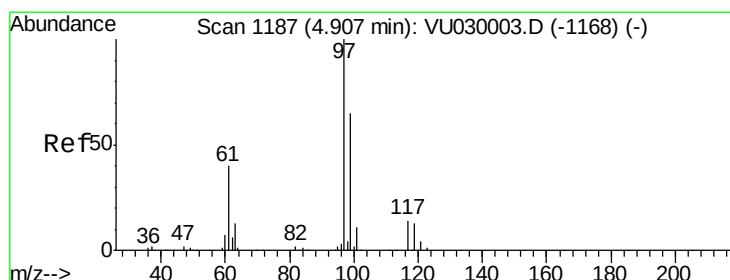
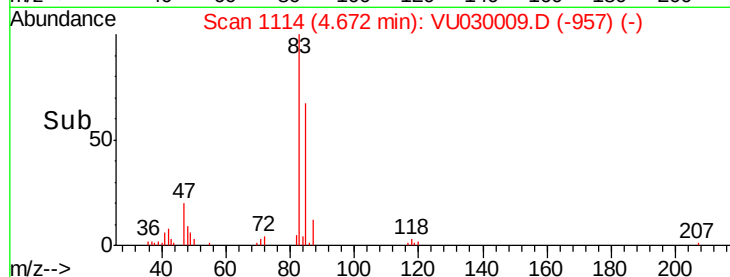
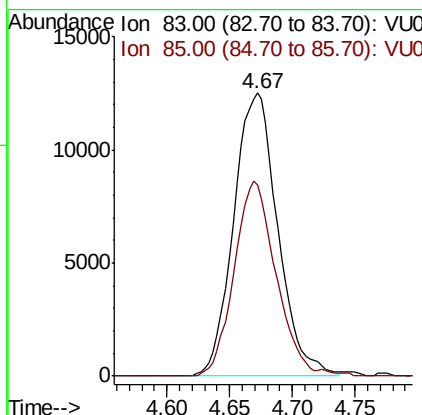
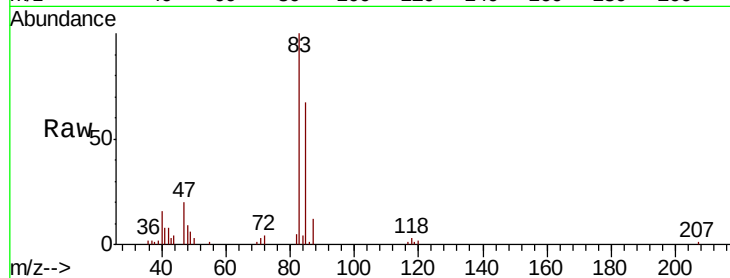
#27
Chloroform
Concen: 1.023 ug/l
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion: 83 Resp: 30619
Ion Ratio Lower Upper
83 100
85 67.4 0.0 129.0

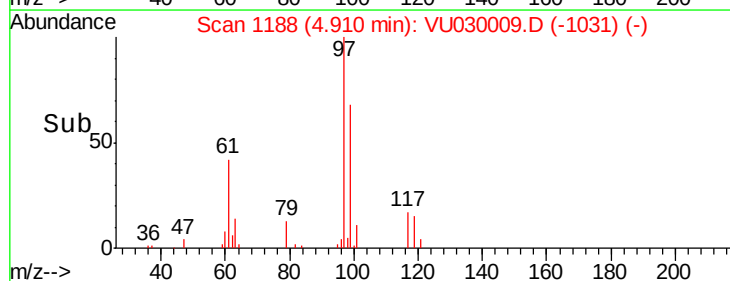
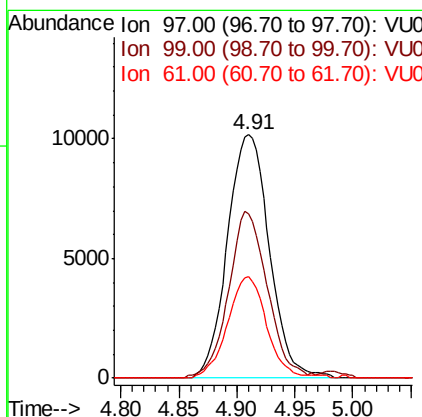
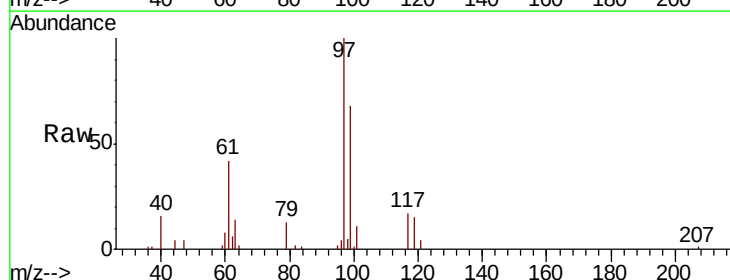
Manual Integrations
APPROVED

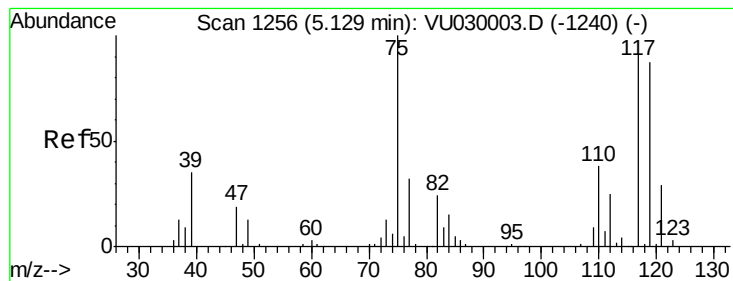
MMDadoda
3/13/2019 12:56:20 PM



#28
1,1,1-Trichloroethane
Concen: 1.041 ug/l
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion: 97 Resp: 25631
Ion Ratio Lower Upper
97 100
99 63.0 32.4 97.0
61 39.0 20.4 61.2





#29

1,1-Dichloropropene

Concen: 0.988 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

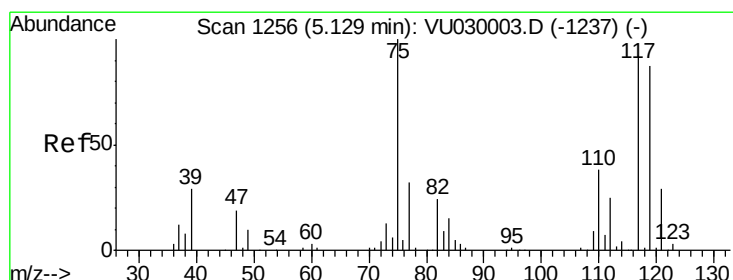
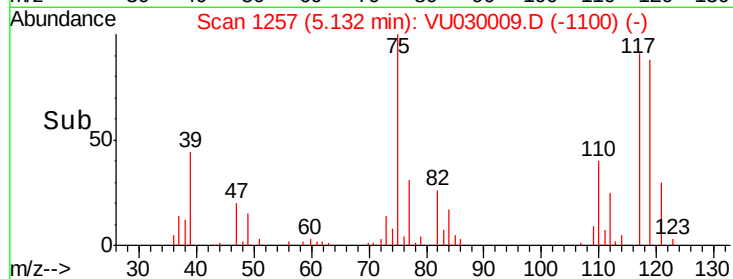
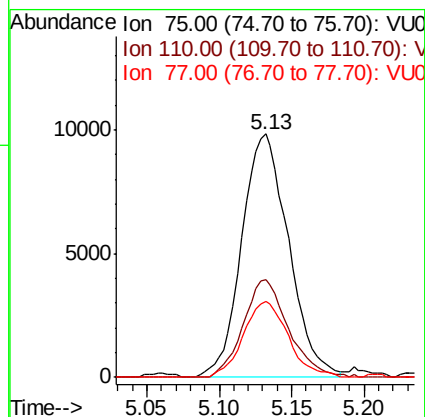
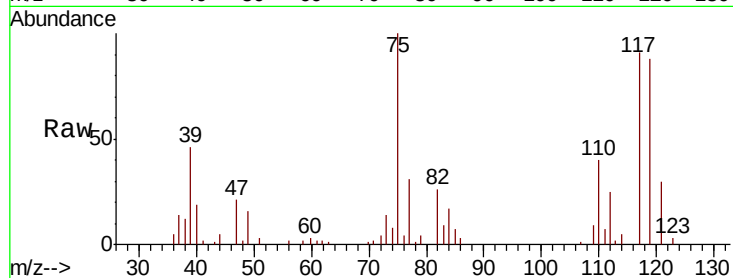
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:	75	Resp:	22130
Ion Ratio	Lower	Upper	
75	100		
110	38.7	19.1	57.3
77	30.0	25.2	37.8

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3/13/2019 12:56:20 PM



#30

Carbon Tetrachloride

Concen: 0.967 ug/l

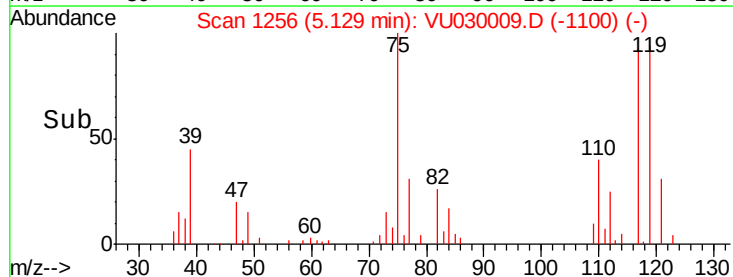
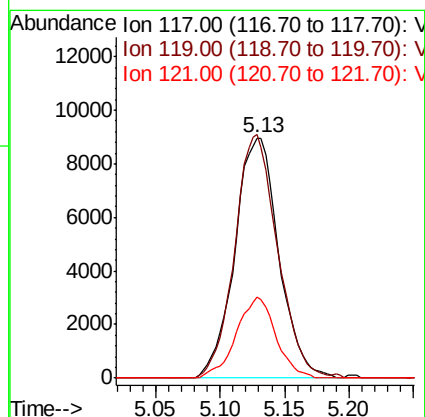
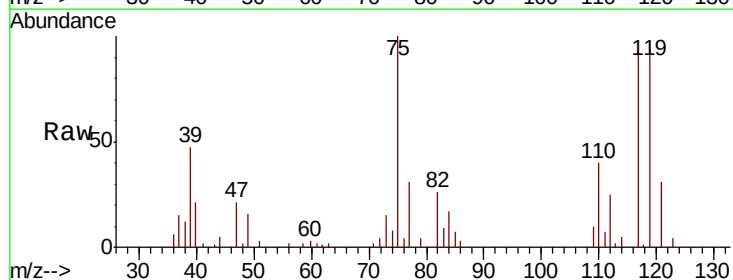
RT: 5.13 min Scan# 1256

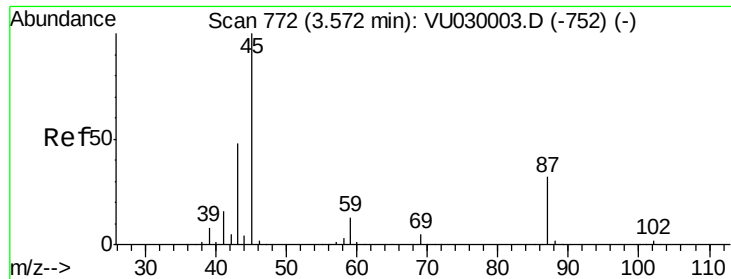
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	117	Resp:	21275
Ion Ratio	Lower	Upper	
117	100		
119	101.5	76.3	114.5
121	33.7	25.1	37.7





#31

Isopropyl Ether

Concen: 1.028 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 45 Resp: 41118

Ion Ratio Lower Upper

45 100

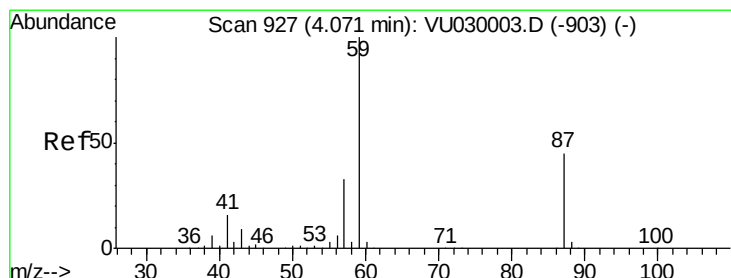
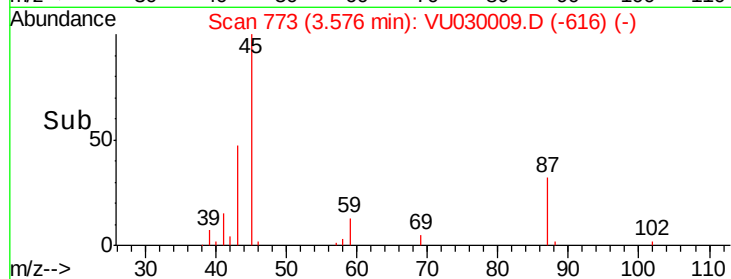
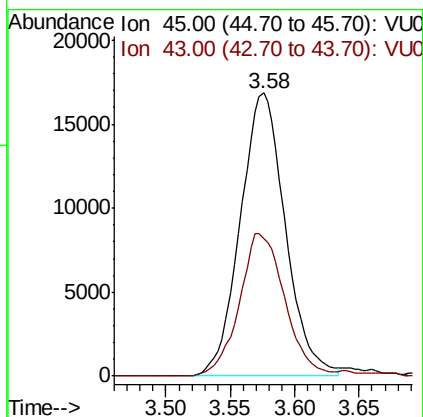
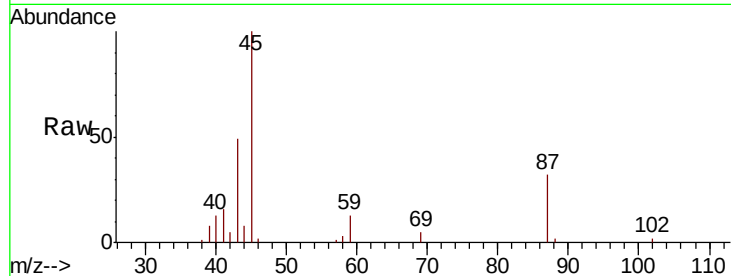
43 50.8 24.5 73.5

Manual Integrations

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#32

Ethyl-t-butyl ether

Concen: 0.979 ug/l

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VU030009.D

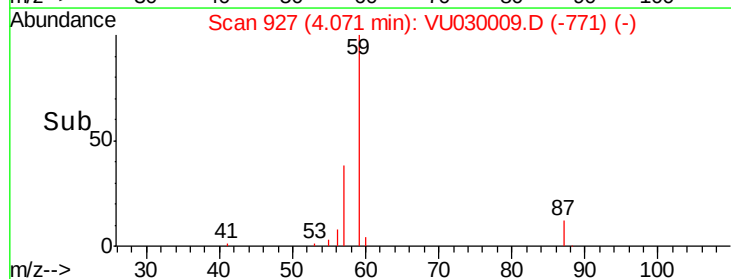
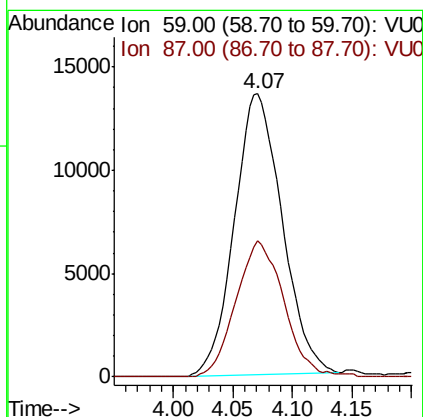
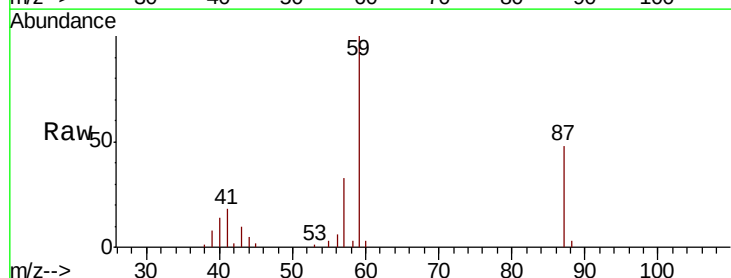
Acq: 12 Mar 2019 16:19

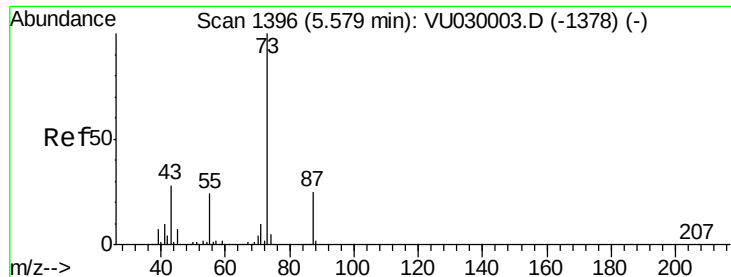
Tgt Ion: 59 Resp: 37747

Ion Ratio Lower Upper

59 100

87 47.2 36.2 54.4





#33

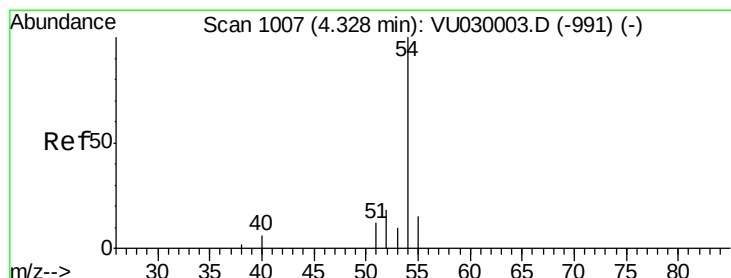
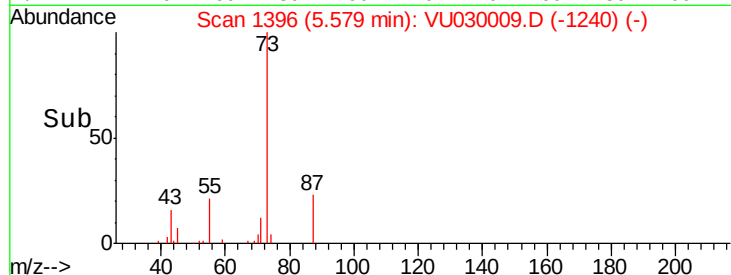
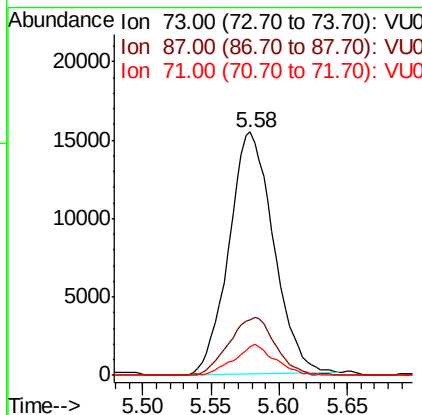
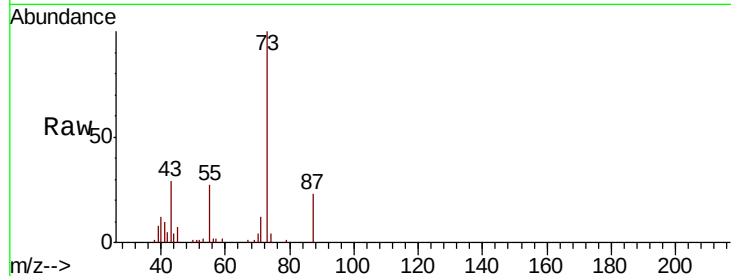
Tert-Amyl methyl ether
Concen: 0.995 ug/l
RT: 5.58 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
73	100		
87	24.4	19.7	29.5
71	11.5	8.6	13.0

Manual Integrations
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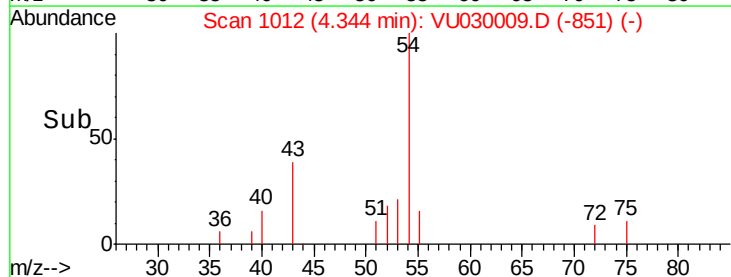
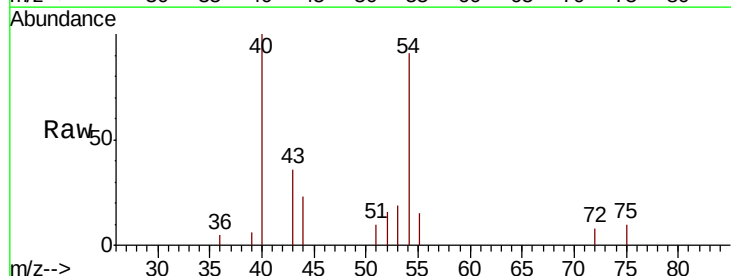
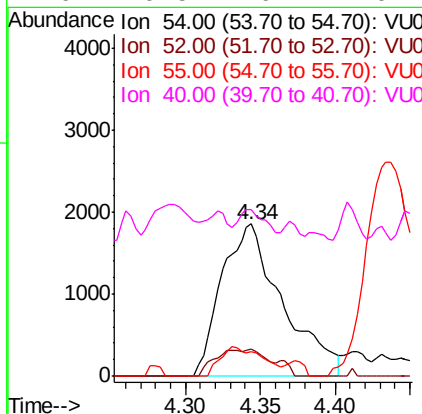
MMDadoda
3/13/2019 12:56:20 PM

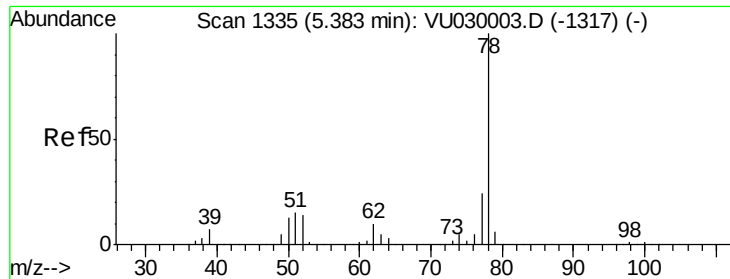


#34

Propionitrile
Concen: 4.936 ug/l
RT: 4.34 min Scan# 1012
Delta R.T. 0.02 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
54	100		
52	8.2	15.8	23.6#
55	13.3	12.5	18.7
40	6.5	6.1	9.1





#35

Benzene

Concen: 1.019 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 78 Resp: 66794

Ion Ratio Lower Upper

78 100

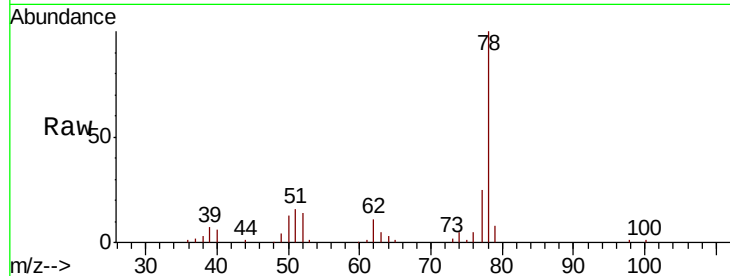
77 24.8 18.9 28.3

Manual Integrations

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Abundance Ion 78.10 (77.80 to 78.80): VU030009.D (-1179) (-)

Ion 77.00 (76.70 to 77.70): VU030009.D (-1179) (-)

5.39

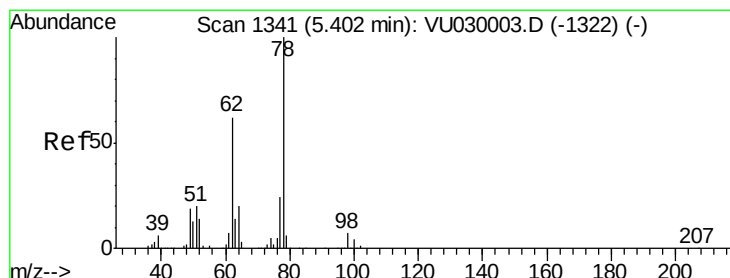
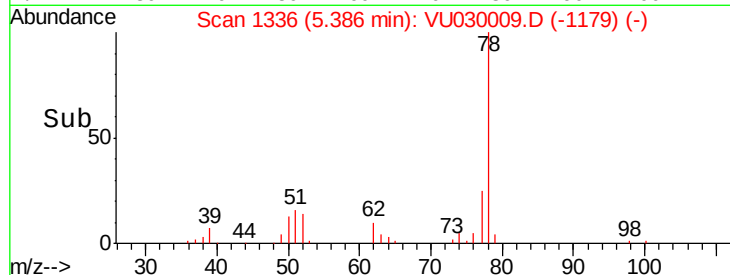
30000

20000

10000

0

Time-->



#36

1,2-Dichloroethane

Concen: 1.017 ug/l

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030009.D

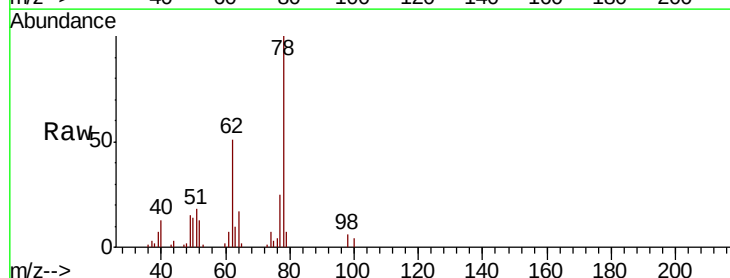
Acq: 12 Mar 2019 16:19

Tgt Ion: 62 Resp: 17820

Ion Ratio Lower Upper

62 100

98 10.3 8.4 12.6



Abundance Ion 62.00 (61.70 to 62.70): VU030009.D (-1185) (-)

Ion 98.00 (97.70 to 98.70): VU030009.D (-1185) (-)

5.40

8000

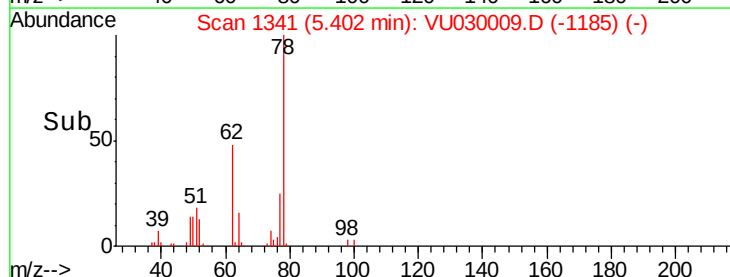
6000

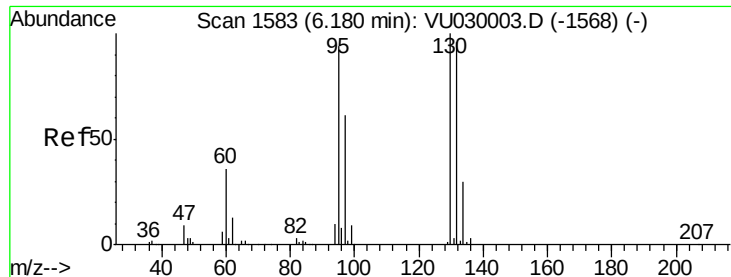
4000

2000

0

Time-->





#37

Trichloroethene

Concen: 1.039 ug/l

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 130 Resp: 19616

Ion Ratio Lower Upper

130 100

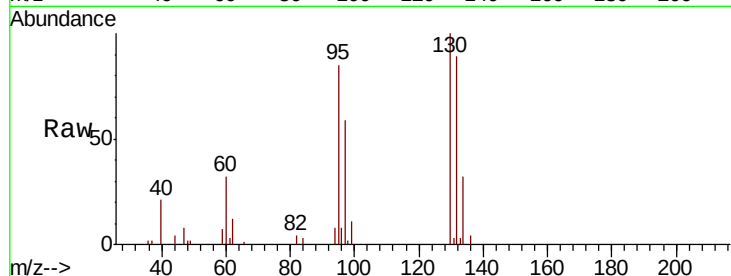
95 85.1 75.2 112.8

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): VU030003.D (-1568) (-)

Ion 94.90 (94.60 to 95.60): VU030003.D (-1568) (-)

6.18

10000

8000

6000

4000

2000

0

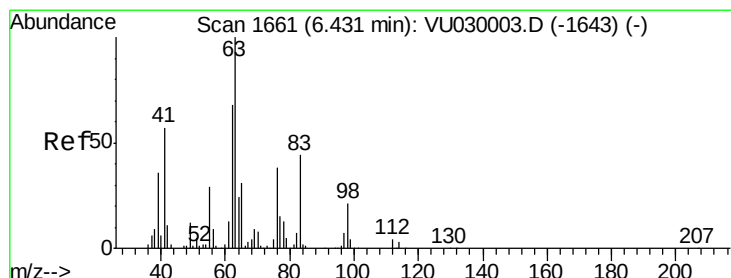
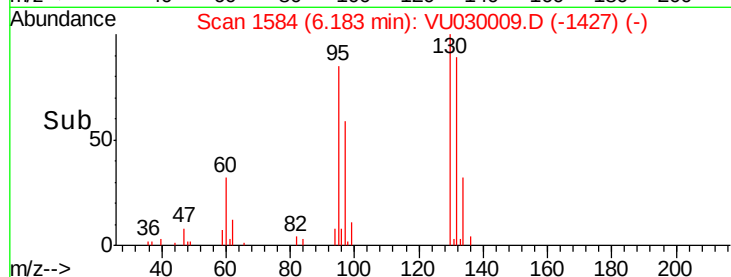
Time-->

6.10

6.15

6.20

6.25



#38

1,2-Dichloropropane

Concen: 1.011 ug/l

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030009.D

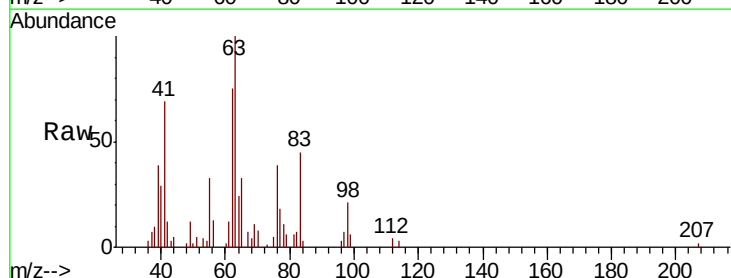
Acq: 12 Mar 2019 16:19

Tgt Ion: 63 Resp: 16845

Ion Ratio Lower Upper

63 100

65 33.4 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VU030003.D (-1643) (-)

Ion 65.00 (64.70 to 65.70): VU030003.D (-1643) (-)

6.43

8000

6000

4000

2000

0

Time-->

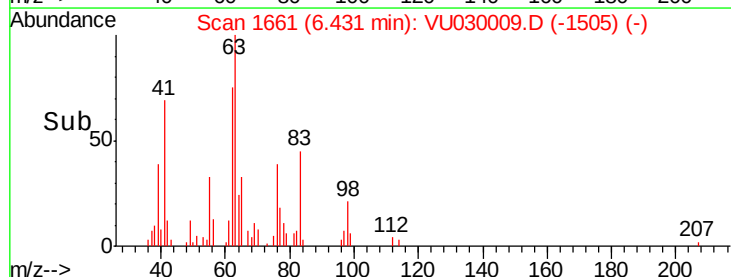
6.35

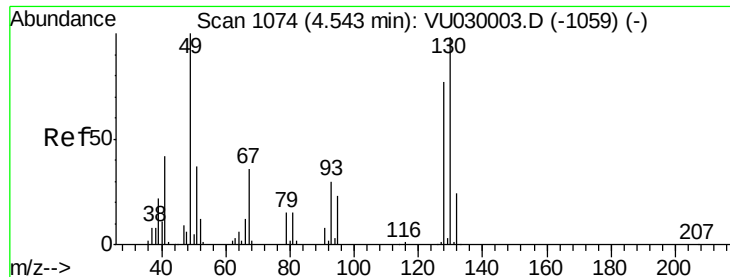
6.40

6.45

6.50

6.55





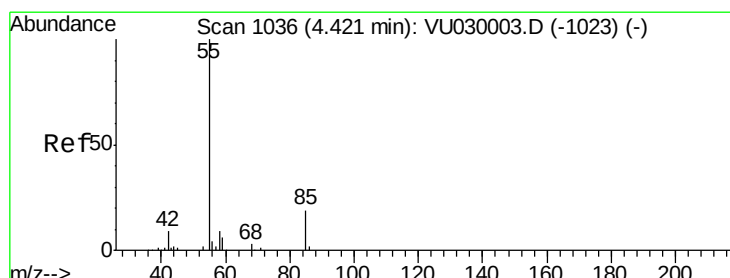
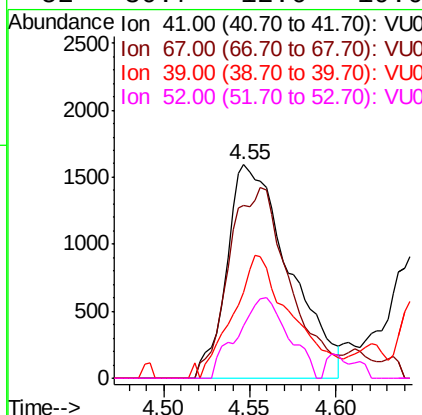
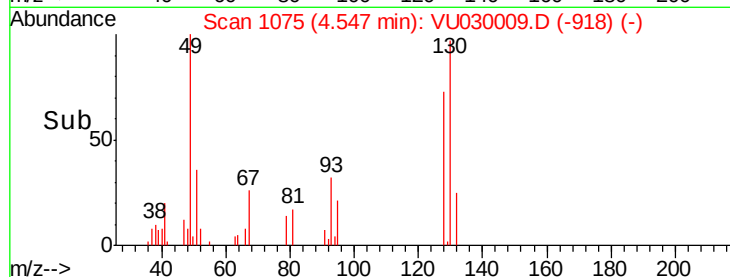
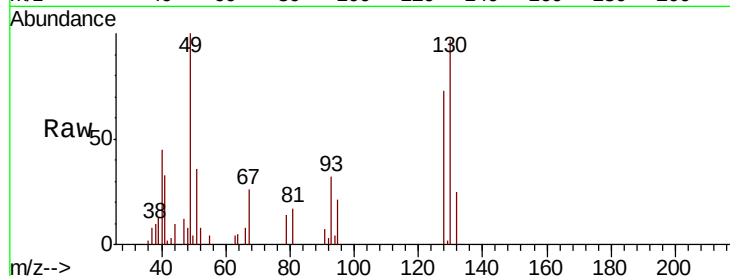
#39
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
41	100		
67	87.7	71.4	107.0
39	55.1	41.9	62.9
52	30.7	12.6	19.0#

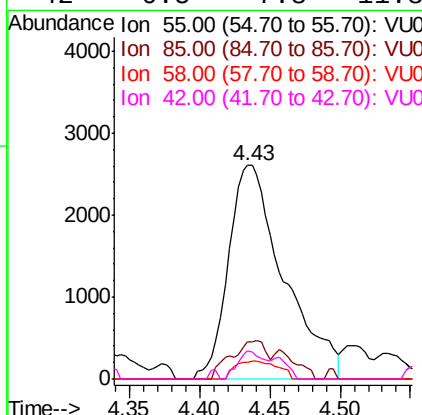
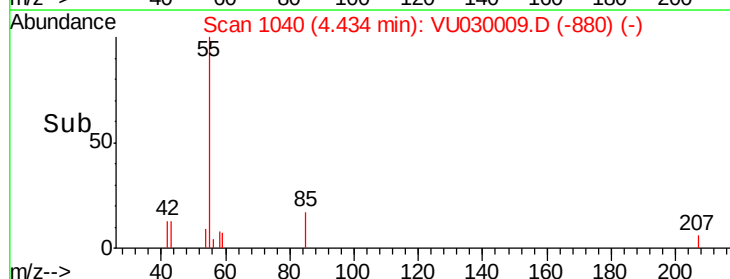
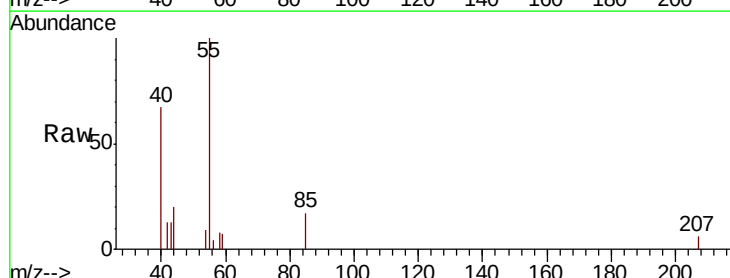
Manual Integrations
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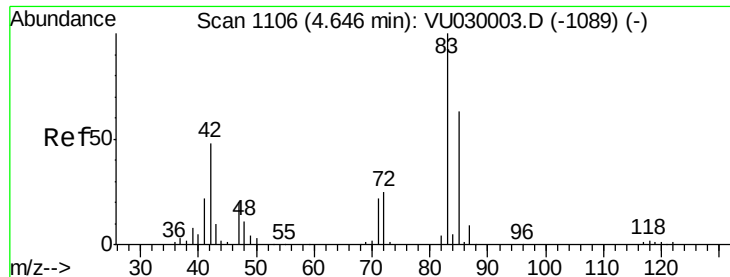
MMDadoda
3/13/2019 12:56:20 PM



#40
Methyl acrylate
Concen: 0.982 ug/l
RT: 4.43 min Scan# 1040
Delta R.T. 0.01 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
55	100		
85	11.4	16.2	24.2#
58	6.5	7.0	10.6#
42	6.5	7.8	11.8#





#41

Tetrahydrofuran

Concen: 1.753 ug/l

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

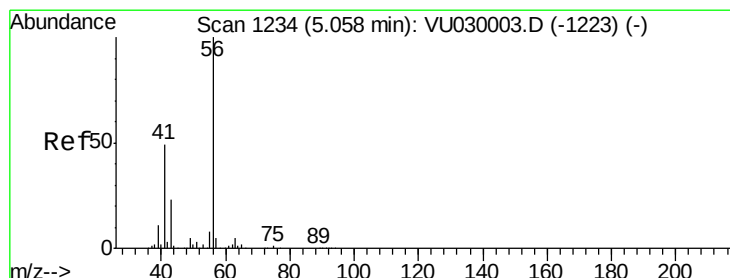
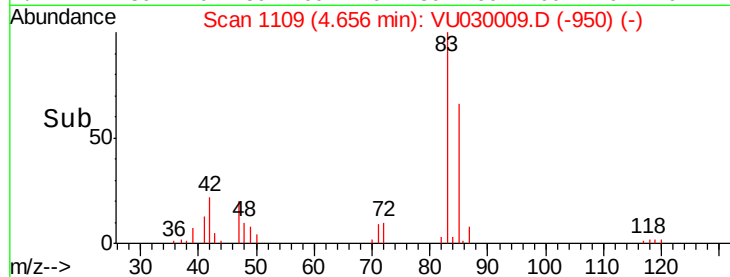
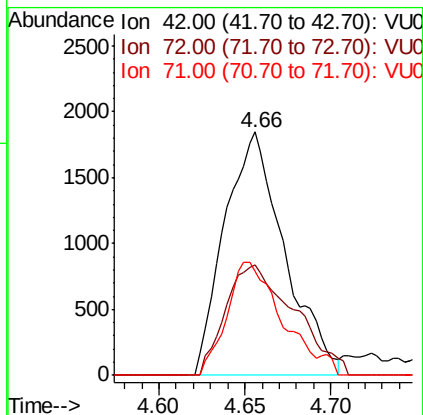
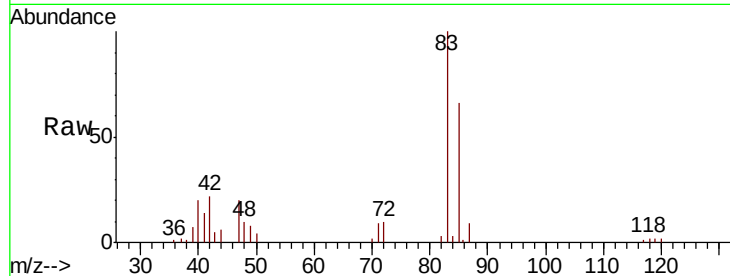
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:	42	Resp:	4481
Ion	Ratio	Lower	Upper
42	100		
72	52.0	44.9	67.3
71	43.5	37.8	56.8

Manual Integrations
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3/13/2019 12:56:20 PM



#42

1-Chlorobutane

Concen: 0.988 ug/l

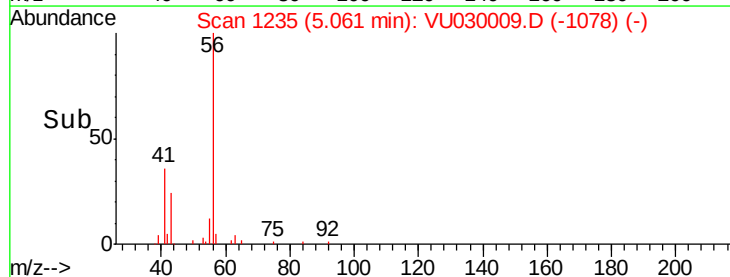
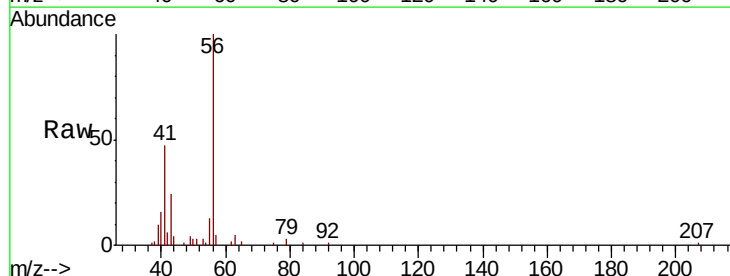
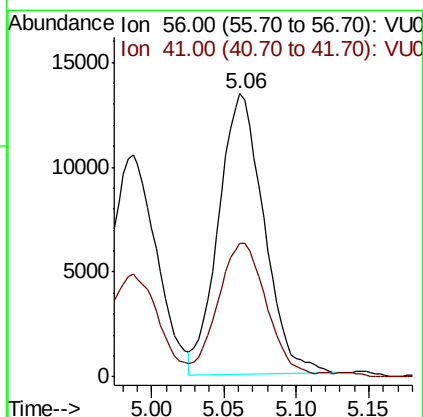
RT: 5.06 min Scan# 1235

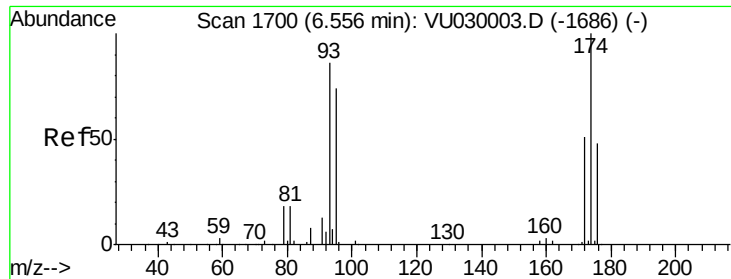
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	56	Resp:	29009
Ion	Ratio	Lower	Upper
56	100		
41	49.0	24.7	74.1





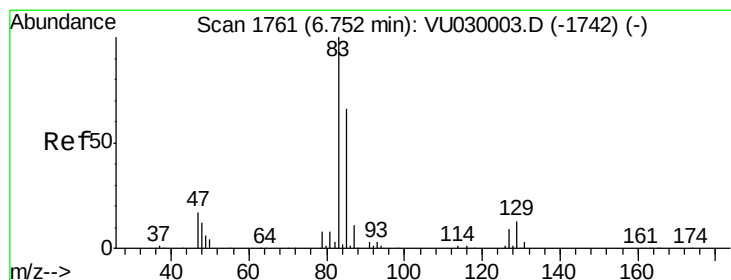
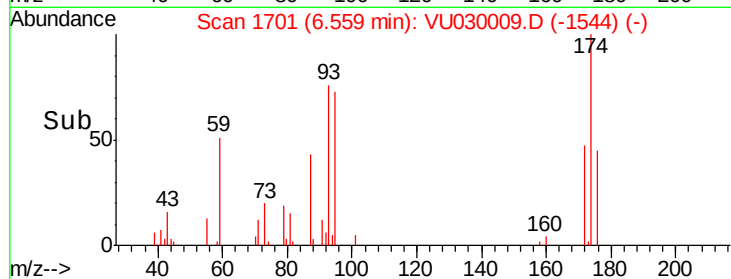
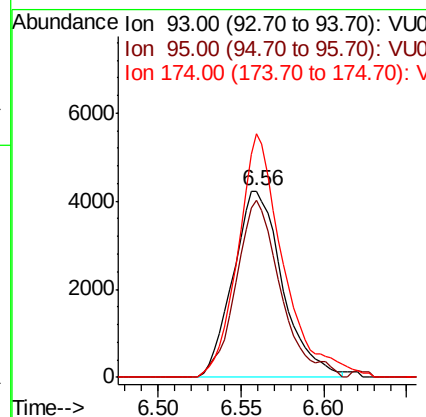
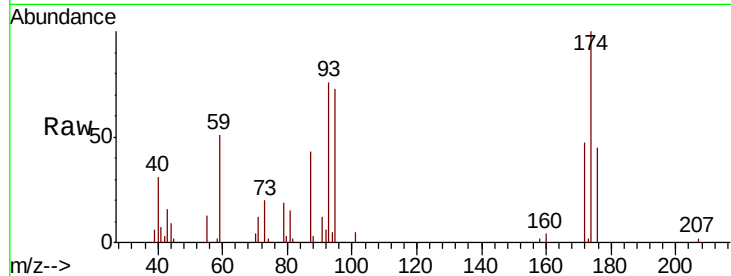
#43
Dibromomethane
Concen: 1.015 ug/l
RT: 6.56 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion: 93 Resp: 8750
Ion Ratio Lower Upper
93 100
95 85.6 68.6 102.8
174 119.4 91.8 137.8

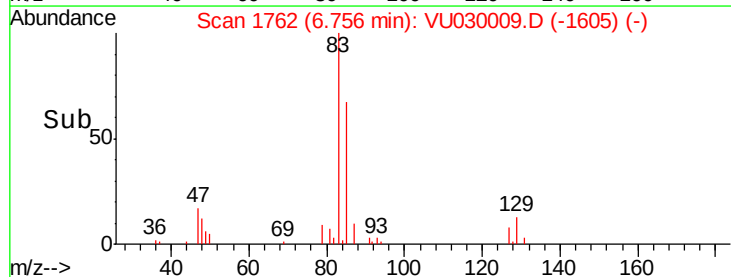
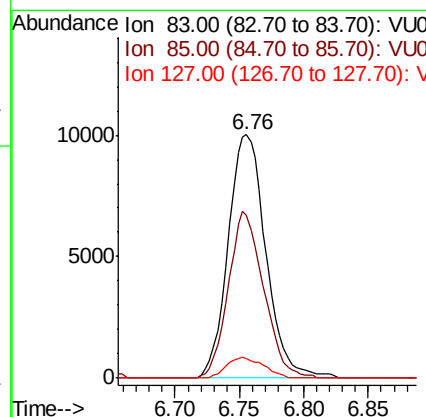
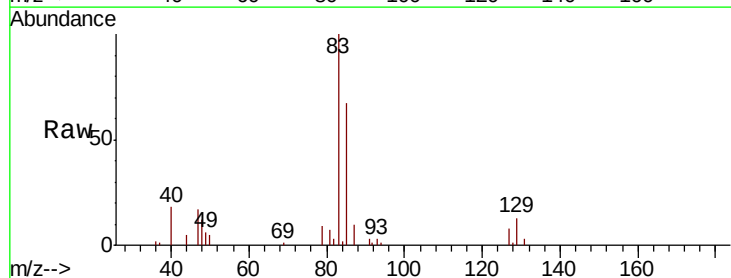
Manual Integrations
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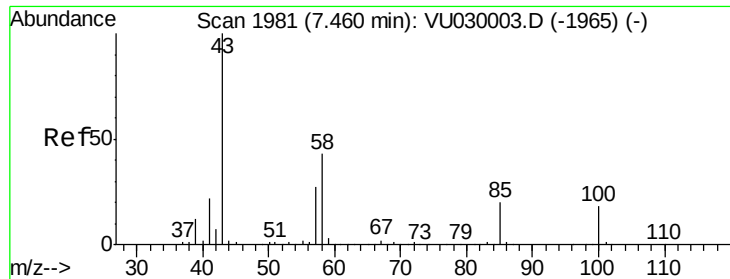
MMDadoda
3/13/2019 12:56:20 PM



#44
Bromodichloromethane
Concen: 0.990 ug/l
RT: 6.76 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion: 83 Resp: 20367
Ion Ratio Lower Upper
83 100
85 67.0 53.2 79.8
127 8.3 7.4 11.0





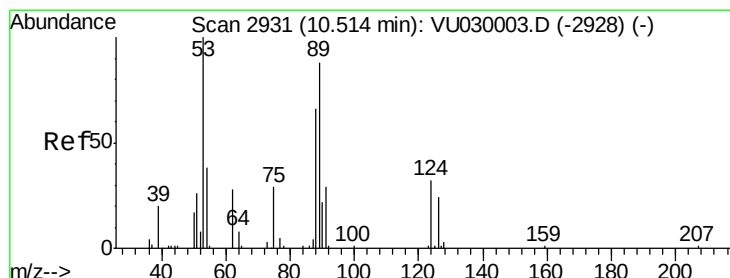
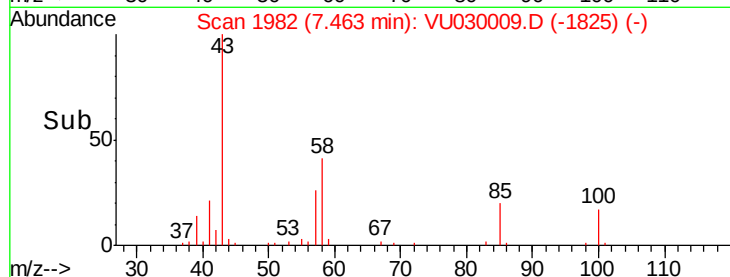
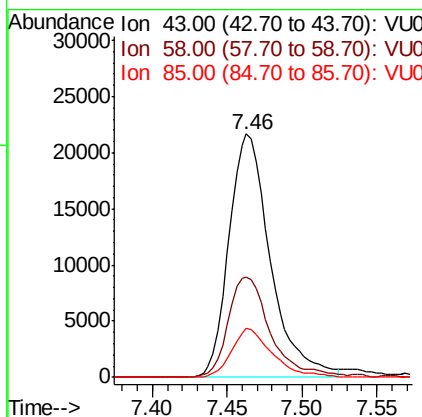
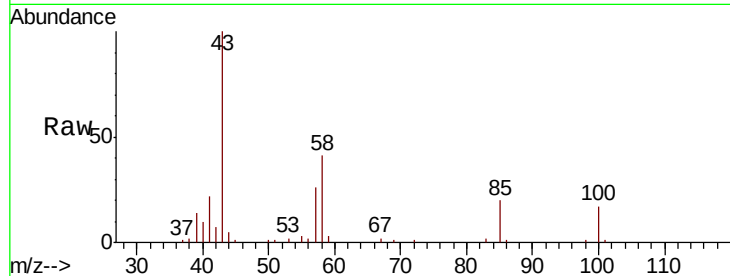
#45
4-Methyl-2-Pentanone
Concen: 4.909 ug/l
RT: 7.46 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.0	21.6	64.6
85	19.7	16.3	24.5

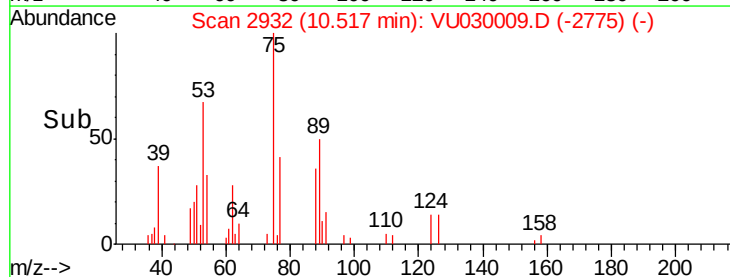
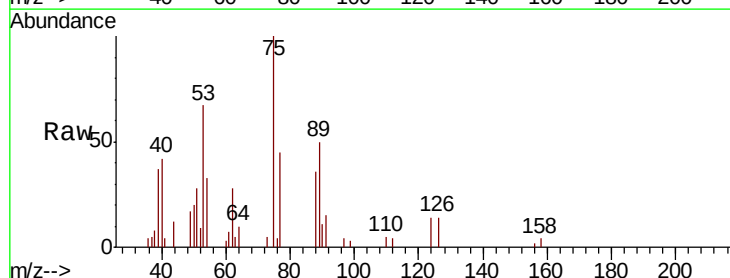
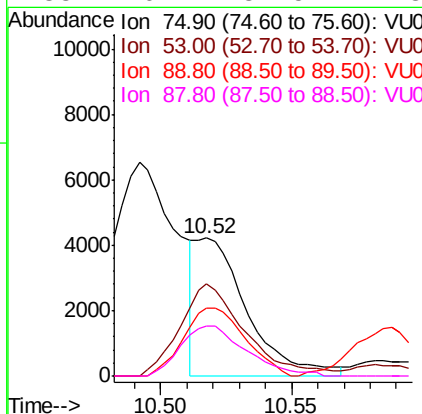
Manual Integrations
APPROVED

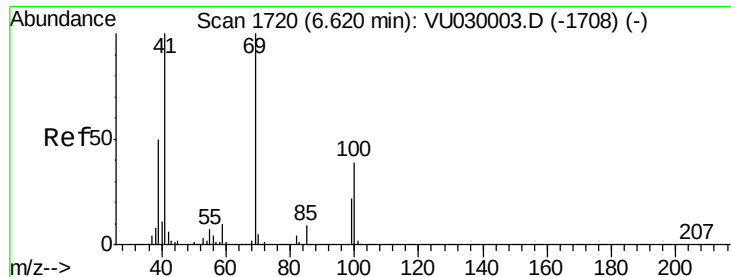
MMDadoda
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#46
t-1,4-Dichloro-2-butene
Concen: 2.570 ug/l m
RT: 10.52 min Scan# 2932
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
75	100		
53	83.9	57.0	85.6
89	59.1	43.6	65.4
88	46.2	31.5	47.3





#47

Methyl methacrylate

Concen: 1.913 ug/l

RT: 6.63 min Scan# 1722

Delta R.T. 0.01 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

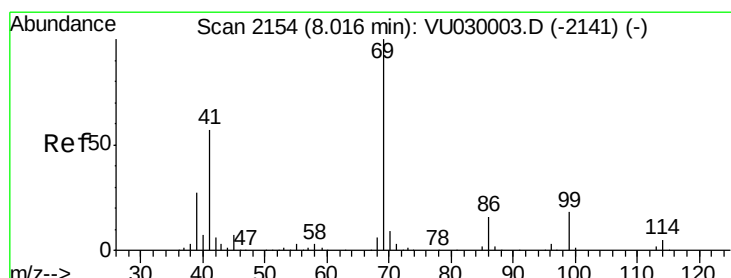
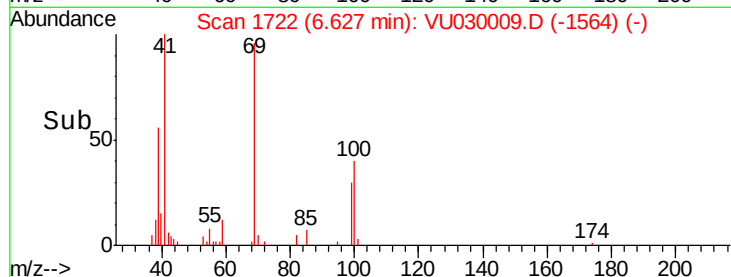
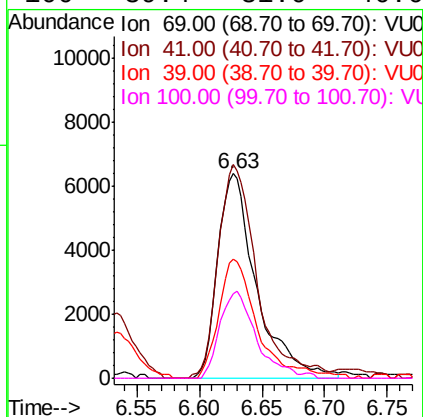
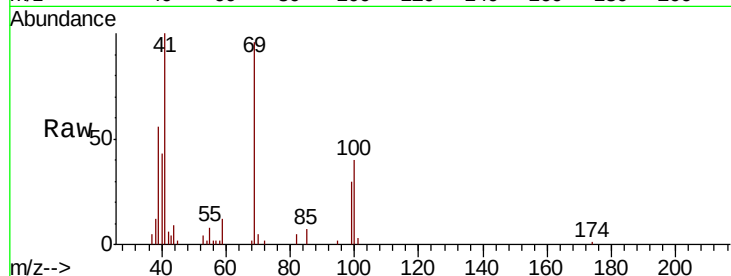
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	104.5	0.0	197.8	
39	58.0	40.2	60.4	
100	39.4	31.0	46.6	

Manual Integrations
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#48

Ethyl methacrylate

Concen: 1.017 ug/l

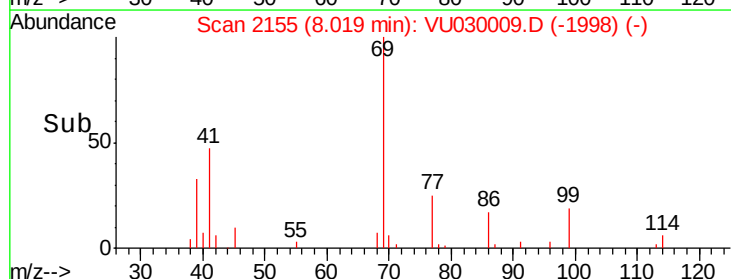
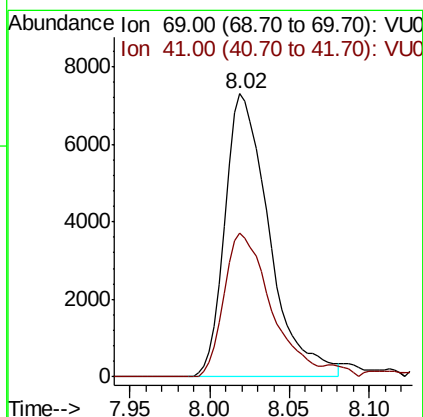
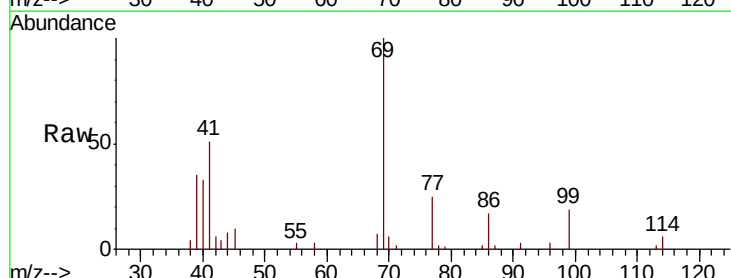
RT: 8.02 min Scan# 2155

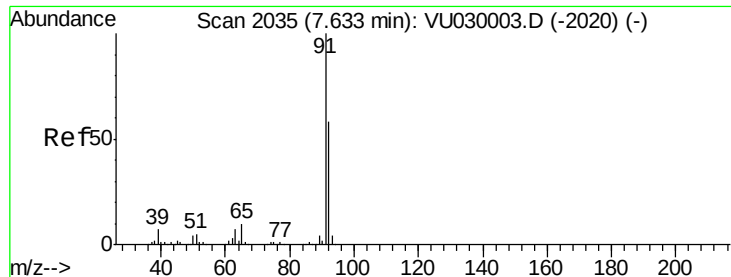
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	53.6	28.1	84.4	





#49

Toluene

Concen: 0.970 ug/l

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion: 92 Resp: 38332

Ion Ratio Lower Upper

92 100

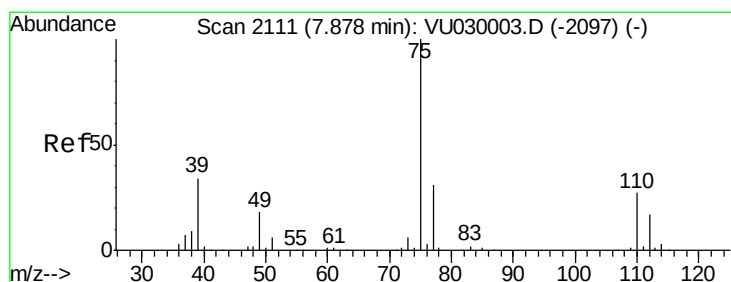
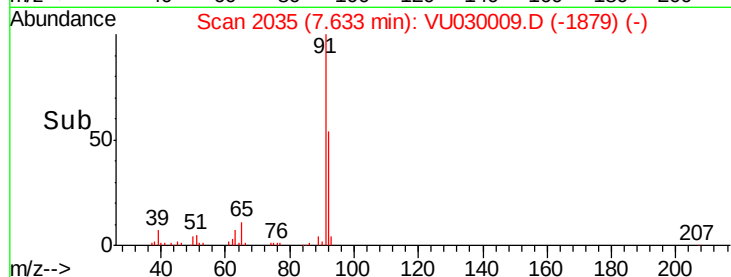
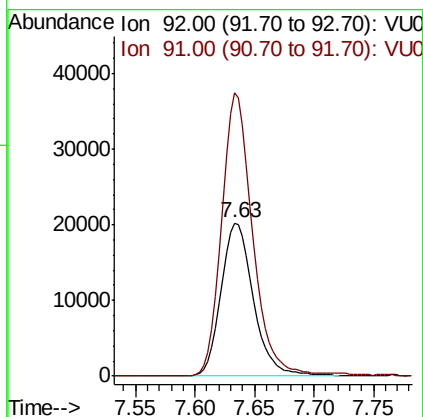
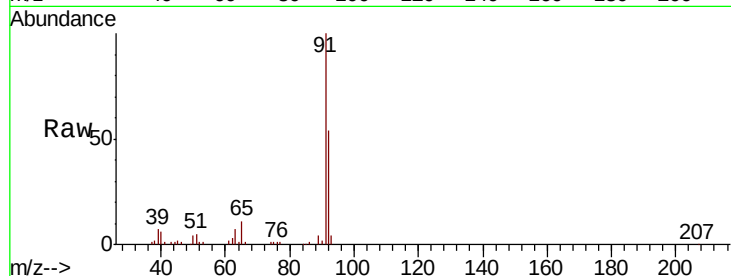
91 175.4 140.1 210.1

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#50

t-1,3-Dichloropropene

Concen: 0.943 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU030009.D

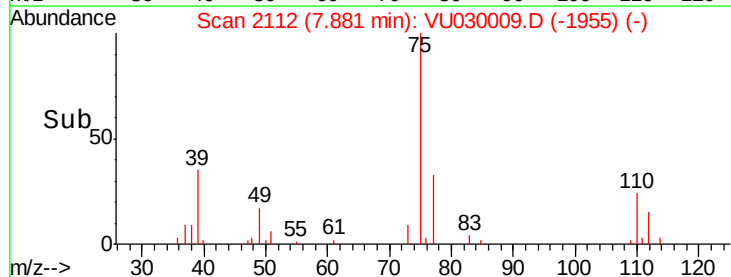
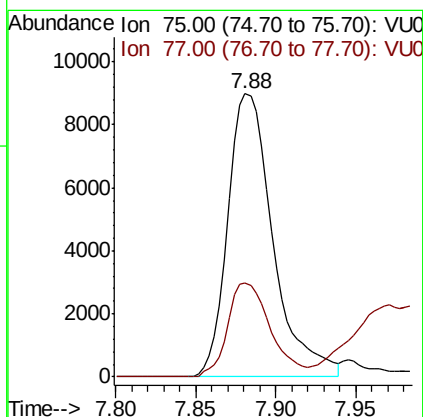
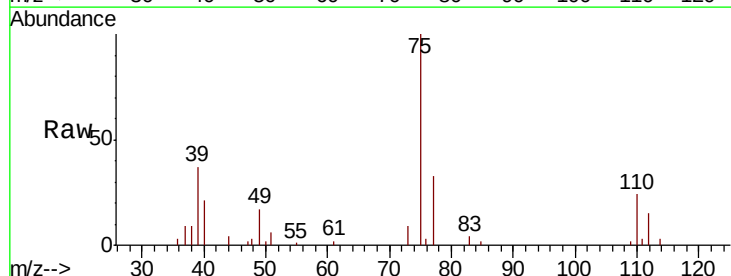
Acq: 12 Mar 2019 16:19

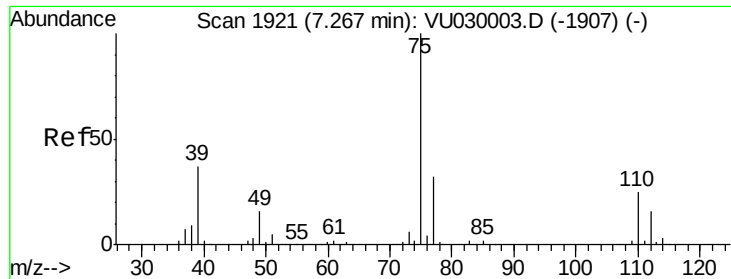
Tgt Ion: 75 Resp: 17379

Ion Ratio Lower Upper

75 100

77 33.3 25.1 37.7





#51

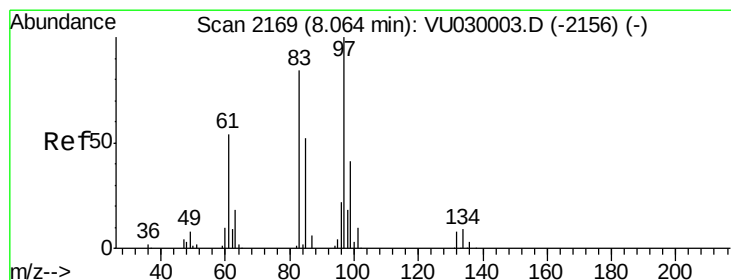
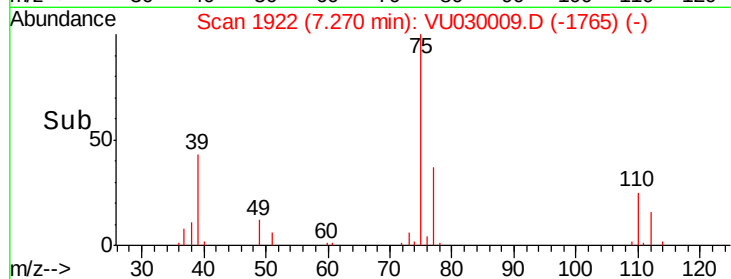
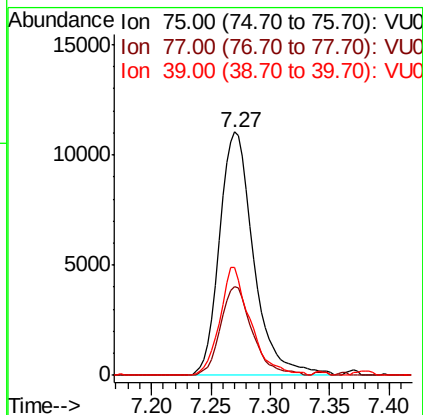
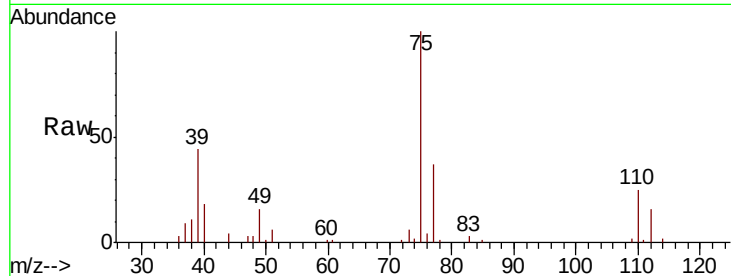
cis-1,3-Dichloropropene
Concen: 0.949 ug/l
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
75	100		
77	36.6	26.0	39.0
39	44.5	29.5	44.3#

Manual Integrations
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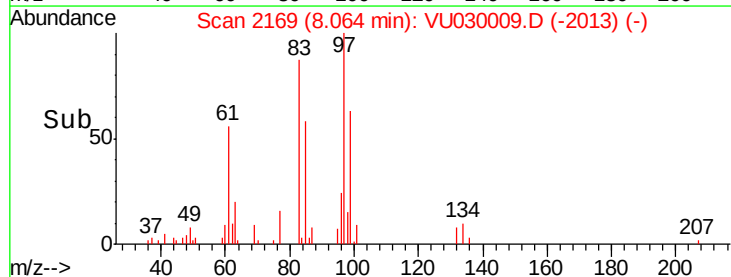
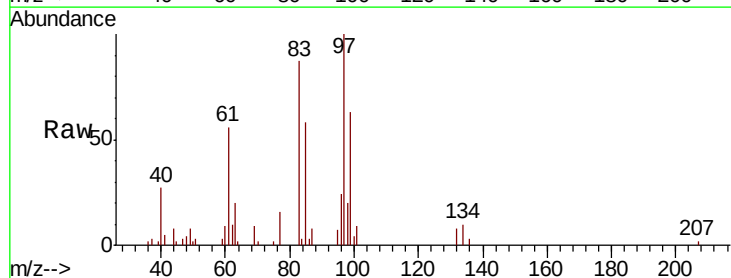
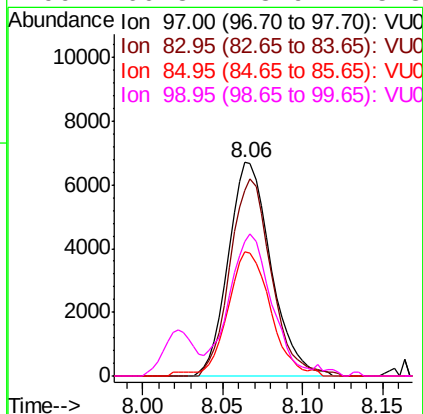
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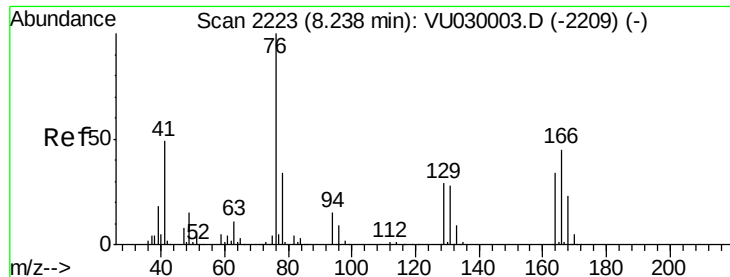


#52

1,1,2-Trichloroethane
Concen: 1.003 ug/l
RT: 8.06 min Scan# 2169
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.1	67.4	101.0
85	57.9	42.6	64.0
99	60.8	48.9	73.3





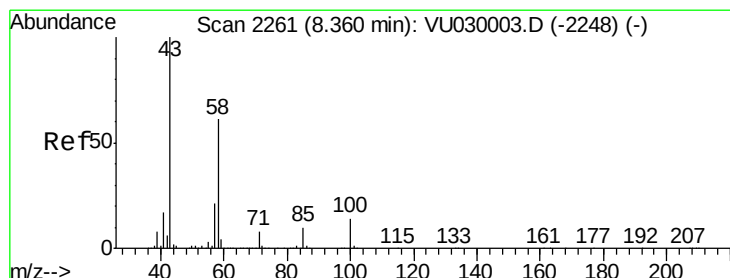
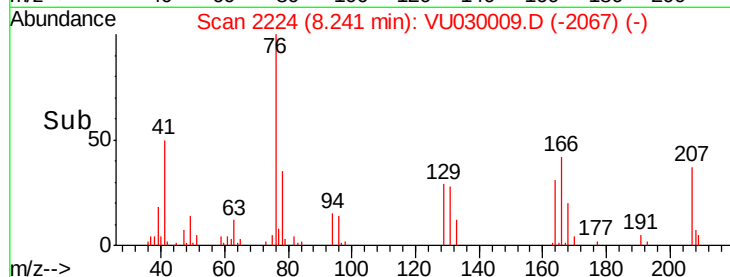
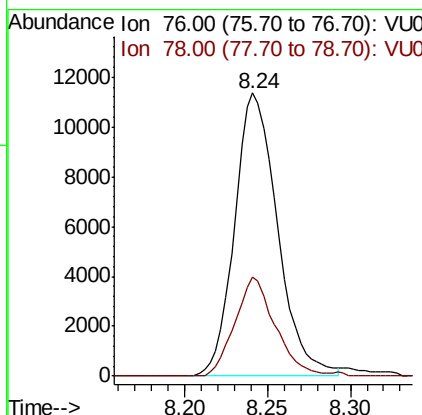
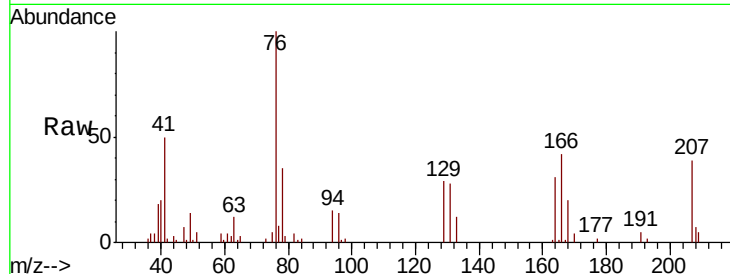
#53
 1,3-Dichloropropane
 Concen: 1.004 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion: 76 Resp: 20474
 Ion Ratio Lower Upper
 76 100
 78 32.9 26.4 39.6

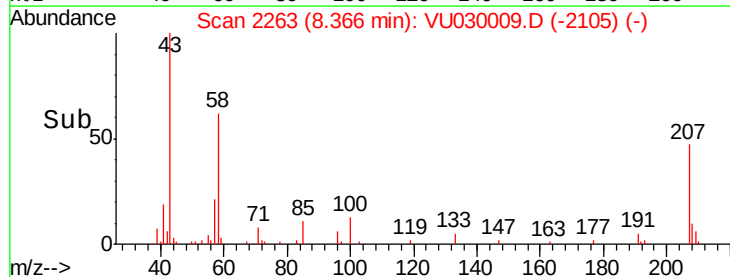
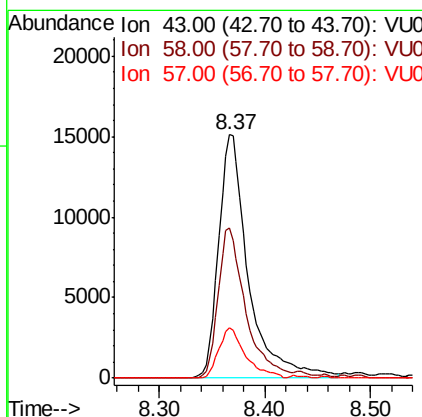
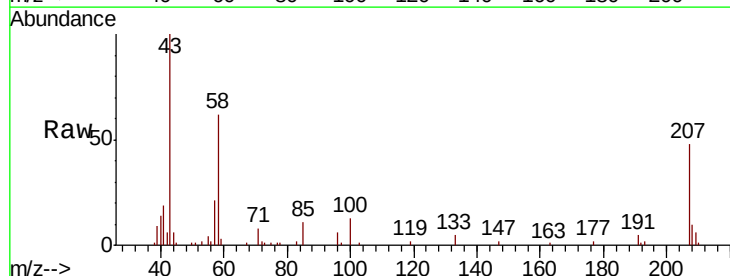
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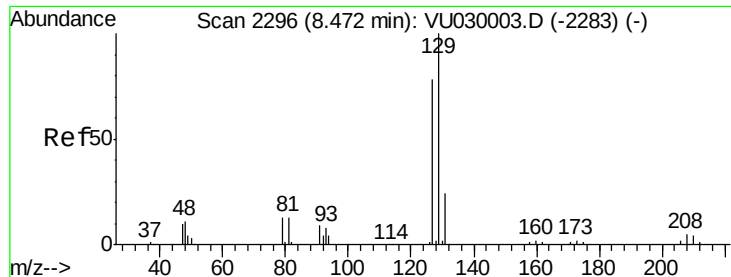
MMDadoda
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#54
 2-Hexanone
 Concen: 4.823 ug/l
 RT: 8.37 min Scan# 2263
 Delta R.T. 0.01 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion: 43 Resp: 29605
 Ion Ratio Lower Upper
 43 100
 58 56.6 40.3 80.3
 57 18.5 0.6 40.6





#55

Dibromochloromethane

Concen: 0.976 ug/l

RT: 8.47 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:129 Resp: 14318

Ion Ratio Lower Upper

129 100

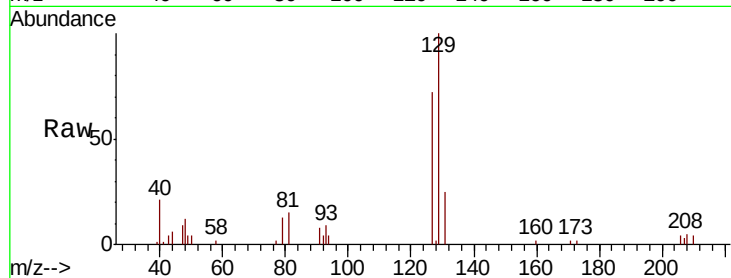
127 73.6 62.4 93.6

Manual Integrations

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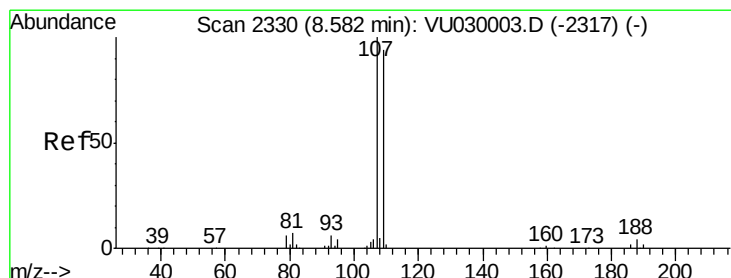
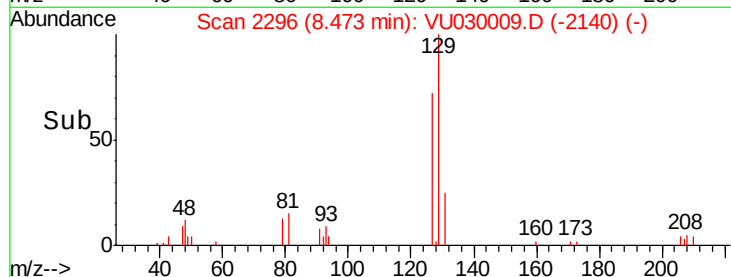
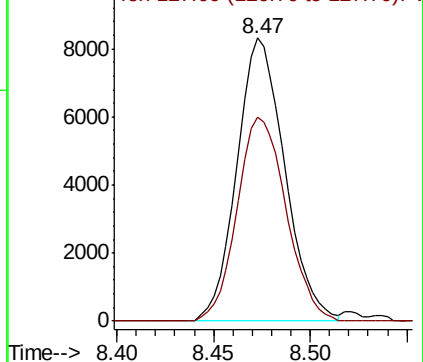
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.972 ug/l

RT: 8.59 min Scan# 2332

Delta R.T. 0.01 min

Lab File: VU030009.D

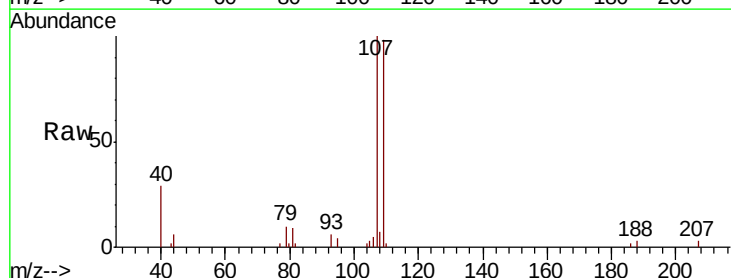
Acq: 12 Mar 2019 16:19

Tgt Ion:107 Resp: 11398

Ion Ratio Lower Upper

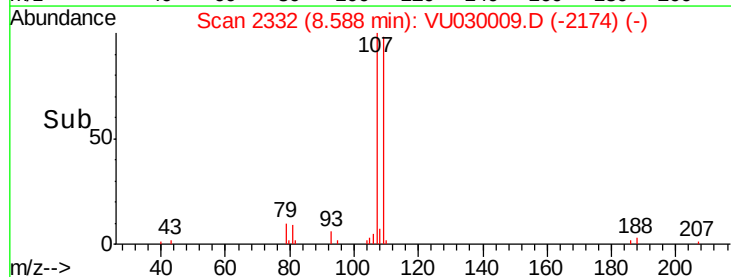
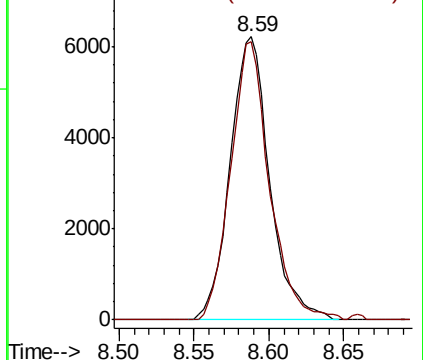
107 100

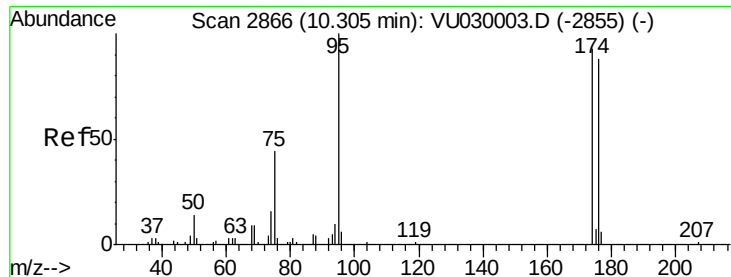
109 96.9 0.0 186.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





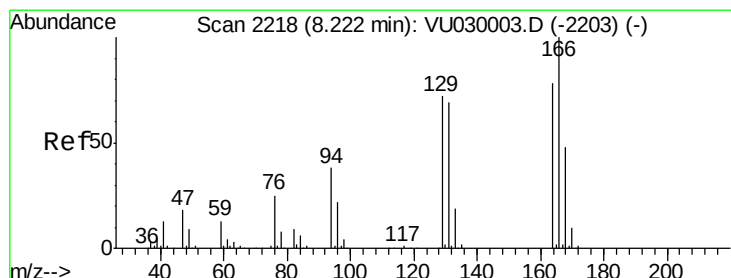
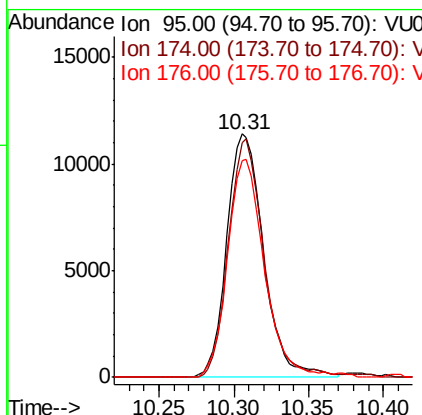
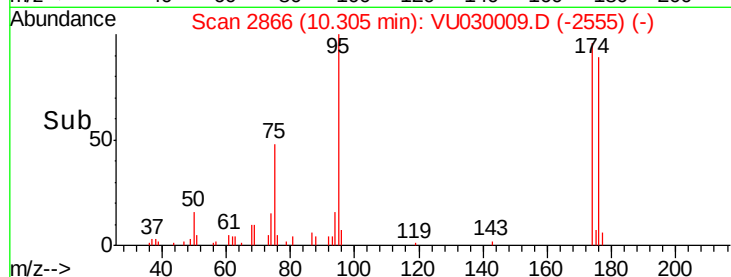
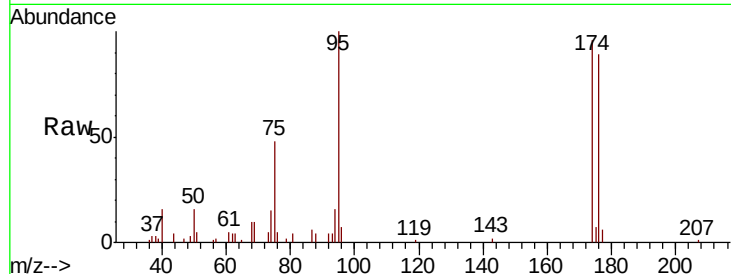
#57
4-Bromofluorobenzene
Concen: 0.972 ug/l
RT: 10.31 min Scan# 2866
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	19551		
174	95.0	78.1	117.1	
176	89.2	70.8	106.2	

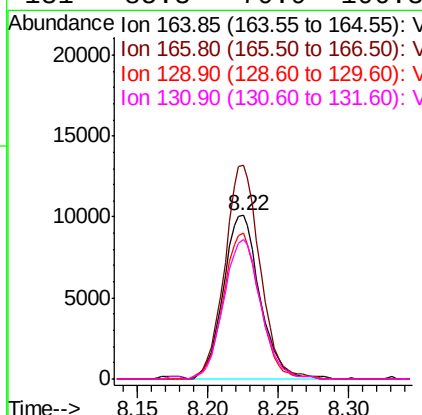
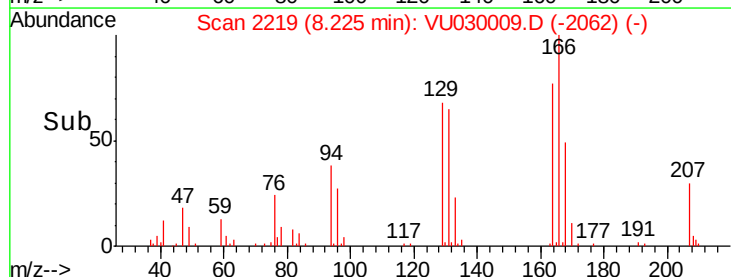
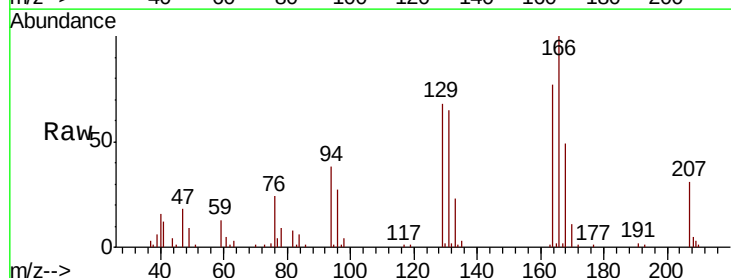
Manual Integrations
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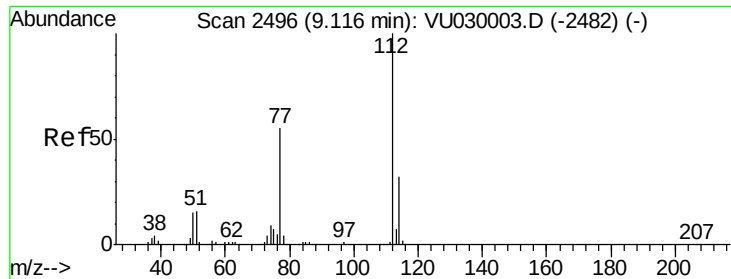
MMDadoda
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#58
Tetrachloroethene
Concen: 1.069 ug/l
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	18326		
166	130.4	103.2	154.8	
129	88.8	74.5	111.7	
131	85.3	70.9	106.3	





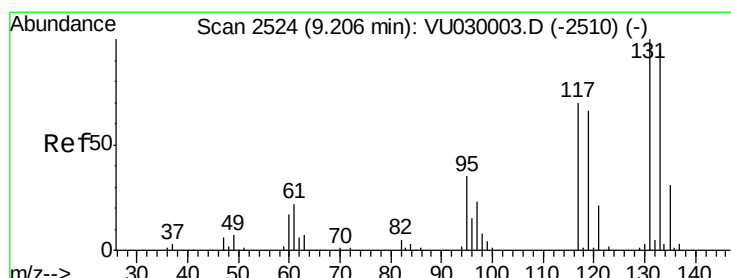
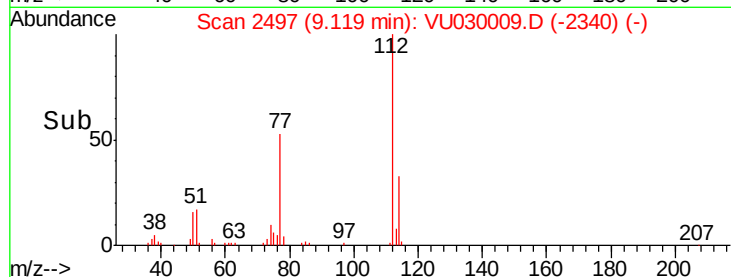
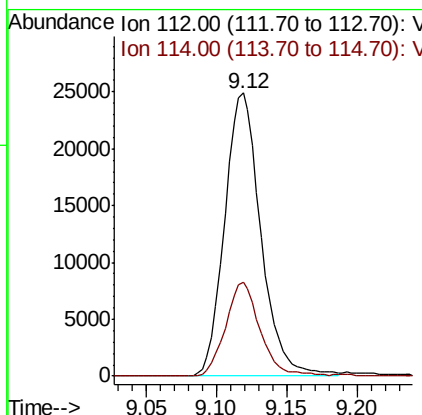
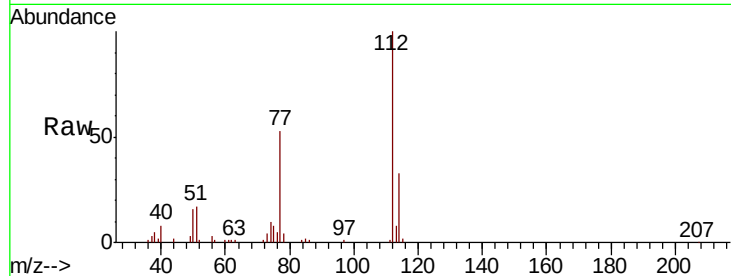
#59
Chlorobenzene
Concen: 0.991 ug/l
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion:112 Resp: 44718
Ion Ratio Lower Upper
112 100
114 33.3 25.6 38.4

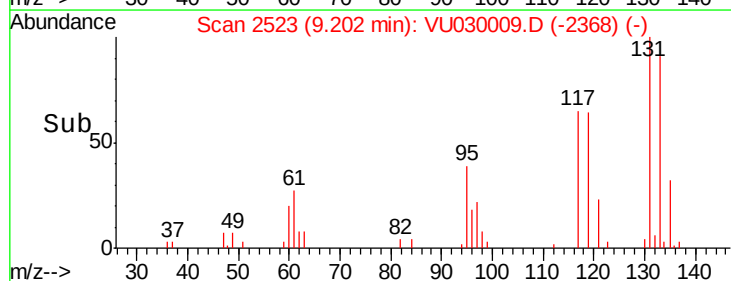
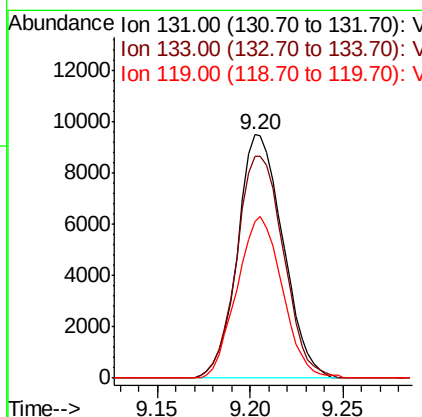
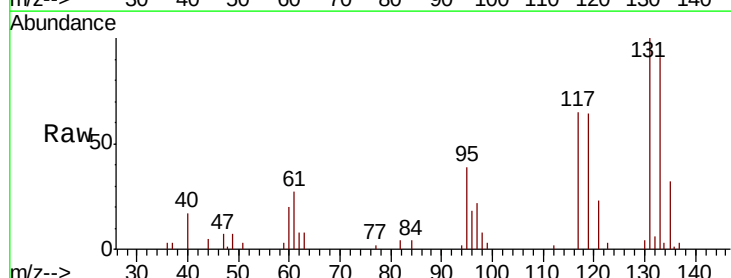
Manual Integrations
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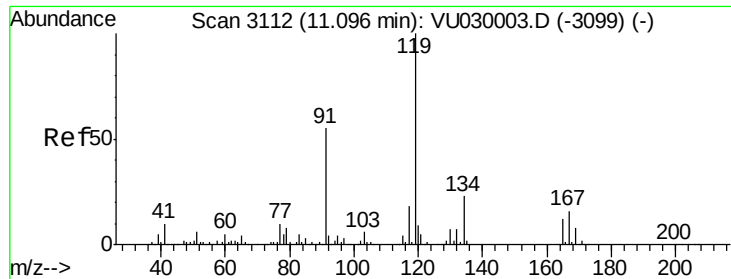
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#60
1,1,1,2-Tetrachloroethane
Concen: 1.016 ug/l
RT: 9.20 min Scan# 2523
Delta R.T. -0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion:131 Resp: 16196
Ion Ratio Lower Upper
131 100
133 94.0 75.6 113.4
119 66.0 53.3 79.9





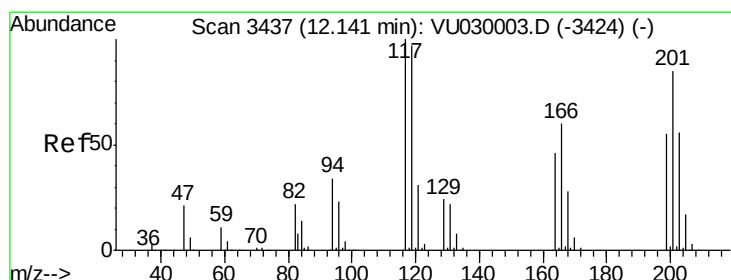
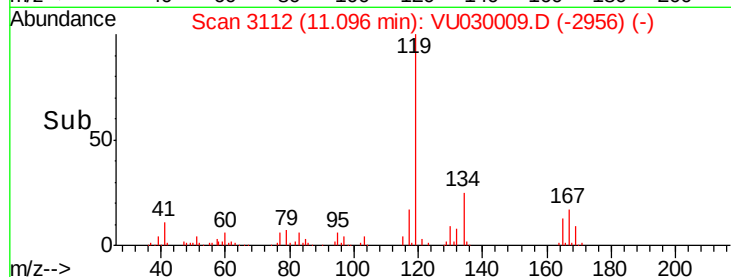
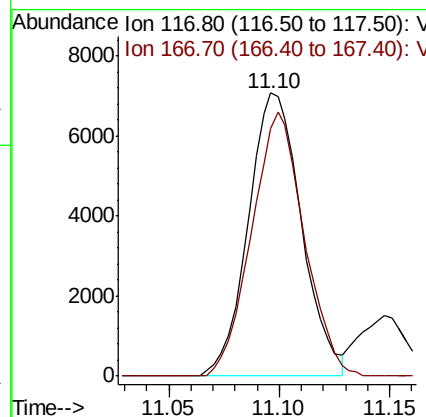
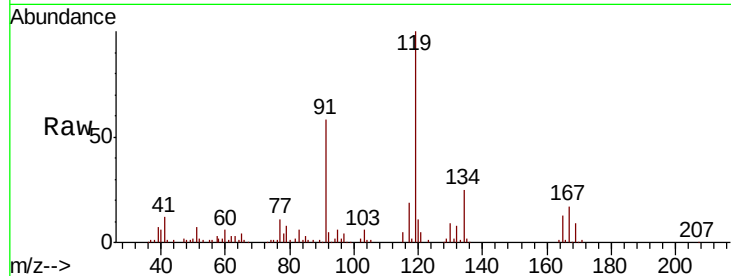
#61
 Pentachloroethane
 Concen: 0.961 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion:117 Resp: 11822
 Ion Ratio Lower Upper
 117 100
 167 92.0 73.1 109.7

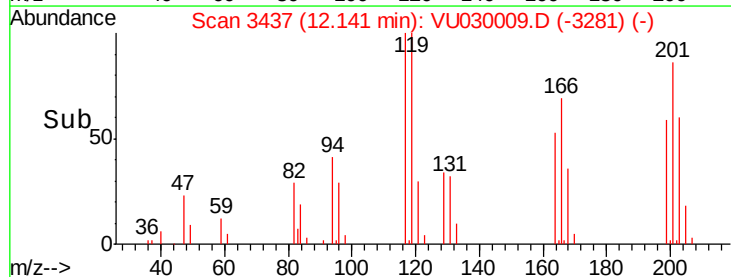
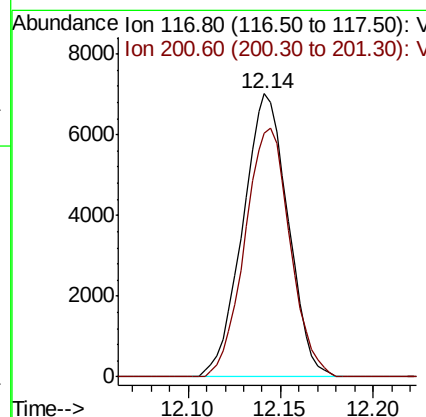
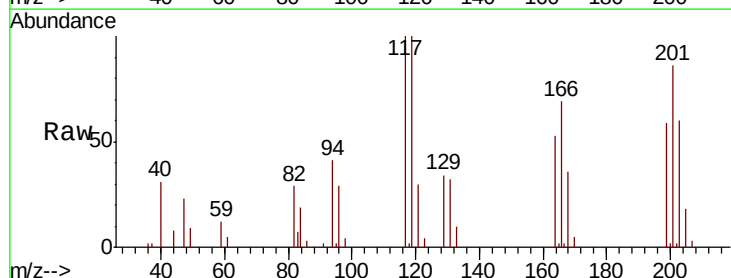
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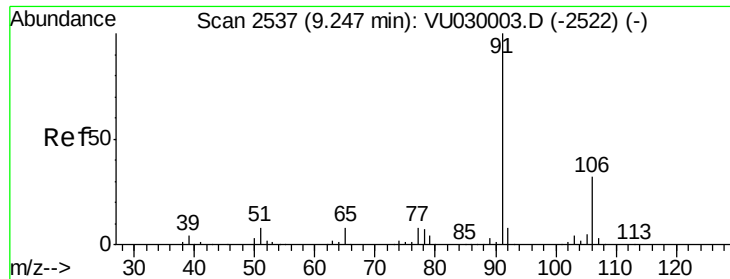
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 3/13/2019 12:56:20 PM



#62
 Hexachloroethane
 Concen: 0.958 ug/l
 RT: 12.14 min Scan# 3437
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion:117 Resp: 11878
 Ion Ratio Lower Upper
 117 100
 201 87.9 69.5 104.3





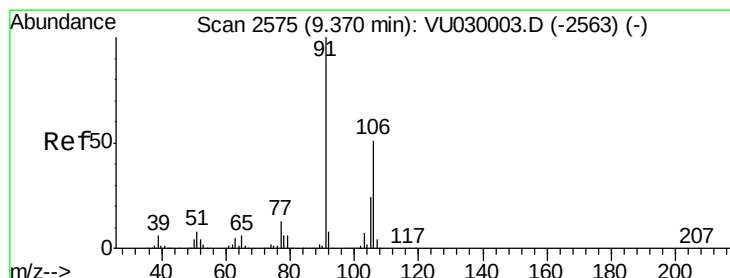
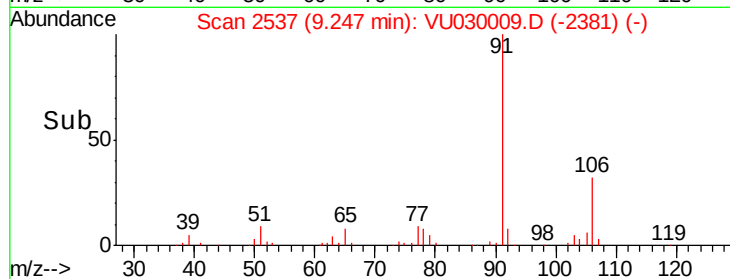
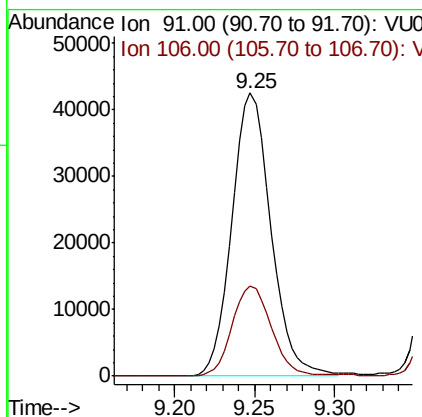
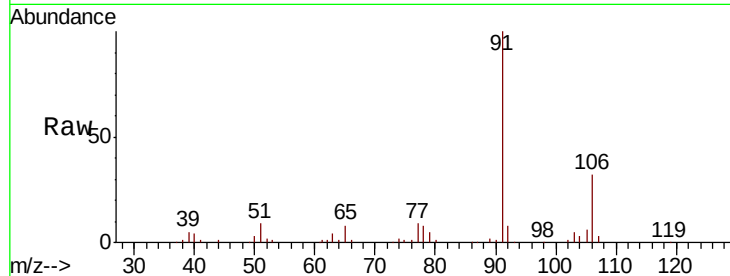
#63
Ethyl Benzene
Concen: 0.952 ug/l
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion: 91 Resp: 70597
Ion Ratio Lower Upper
91 100
106 31.9 25.7 38.5

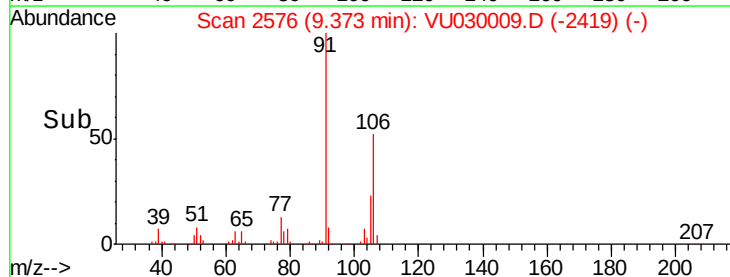
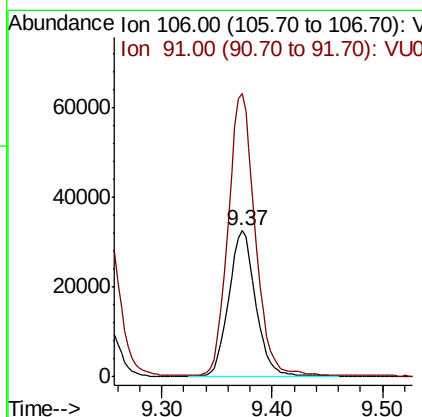
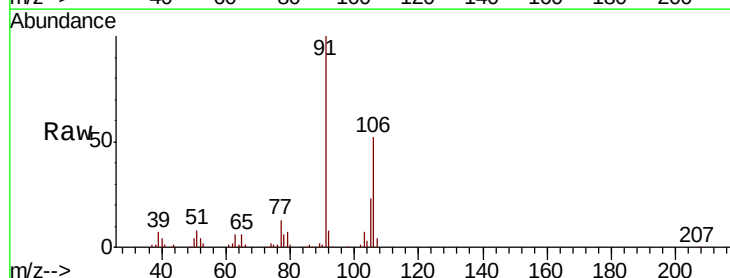
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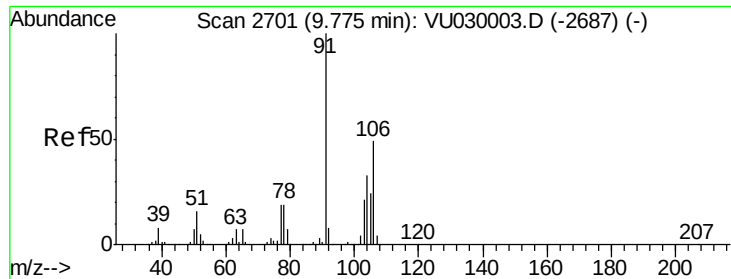
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#64
m/p-Xylenes
Concen: 1.916 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU030009.D
Acq: 12 Mar 2019 16:19

Tgt Ion: 106 Resp: 55894
Ion Ratio Lower Upper
106 100
91 190.7 157.9 236.9





#65

o-Xylene

Concen: 0.972 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:106 Resp: 27798

Ion Ratio Lower Upper

106 100

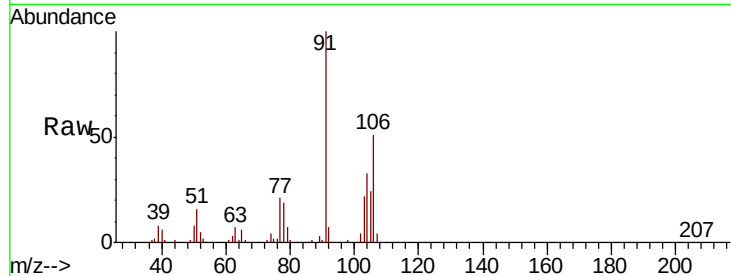
91 204.1 103.2 309.4

Manual Integrations

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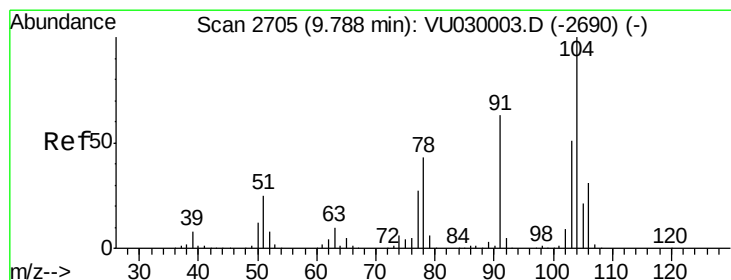
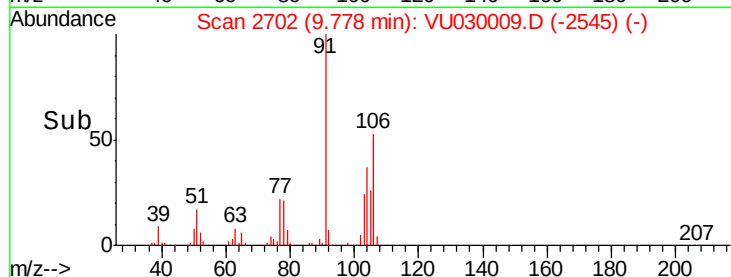
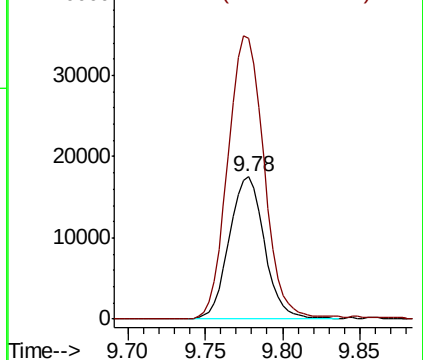
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#66

Styrene

Concen: 0.932 ug/l

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

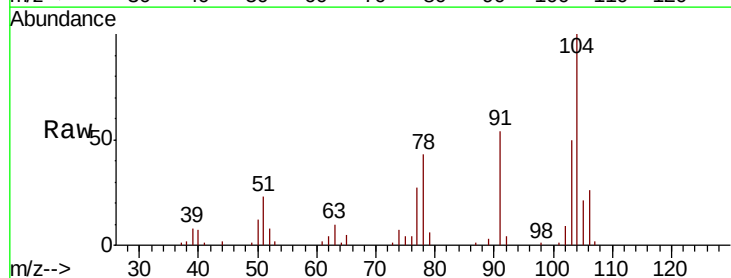
Tgt Ion:104 Resp: 43682

Ion Ratio Lower Upper

104 100

78 47.8 37.0 55.4

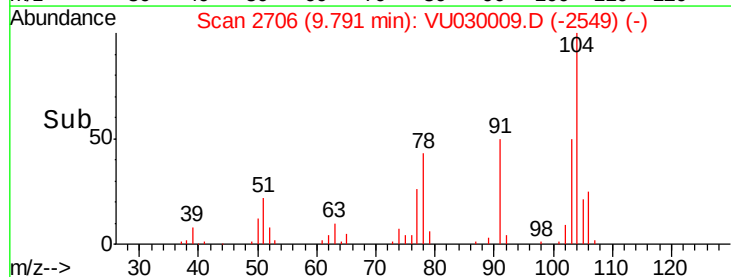
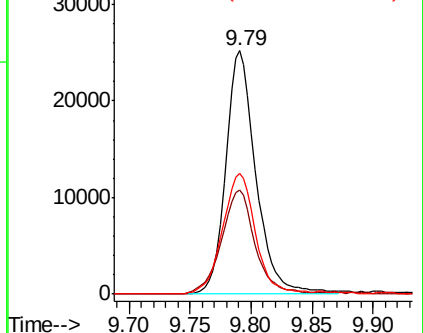
103 54.1 43.8 65.6

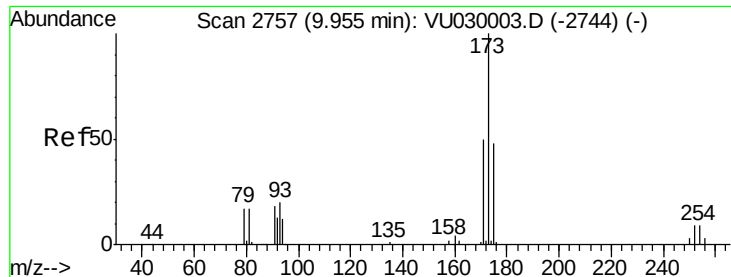


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V





#67

Bromoform

Concen: 0.986 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

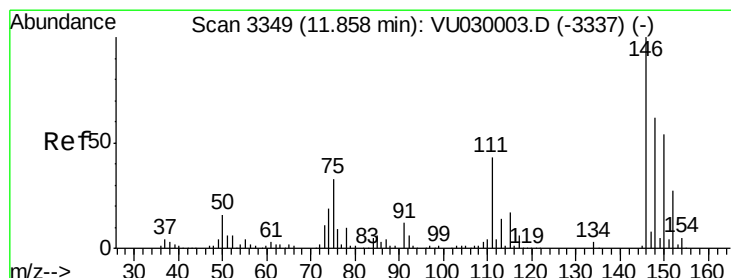
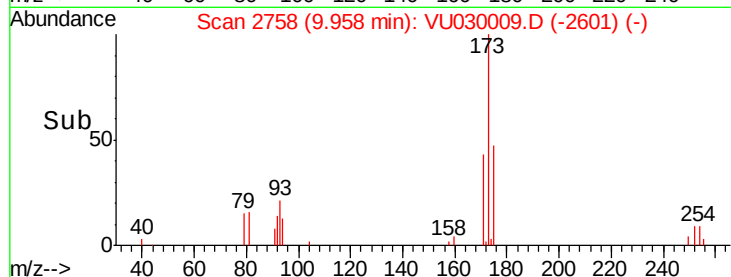
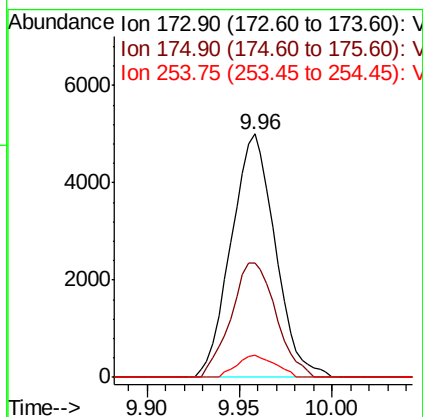
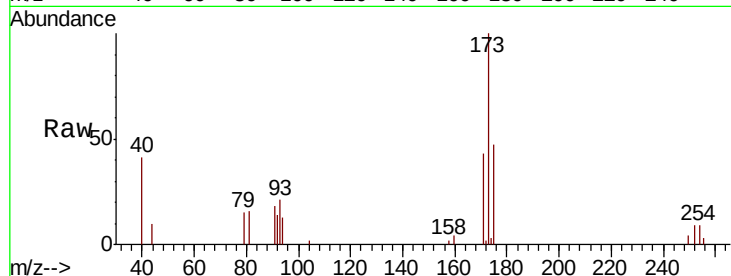
ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:	173	Resp:	8264
Ion Ratio	Lower	Upper	
173	100		
175	48.0	39.0	58.4
254	7.7	7.0	10.4

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#68

1,2-Dichlorobenzene-d4

Concen: 0.986 ug/l

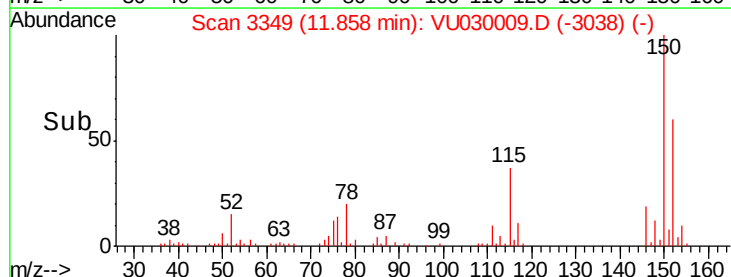
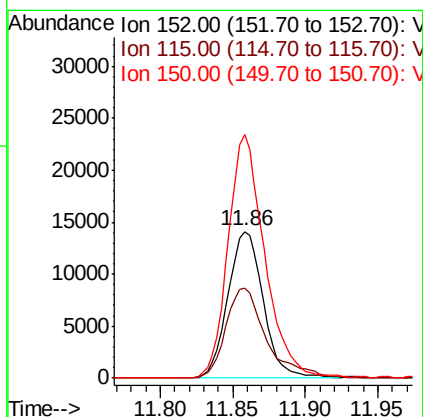
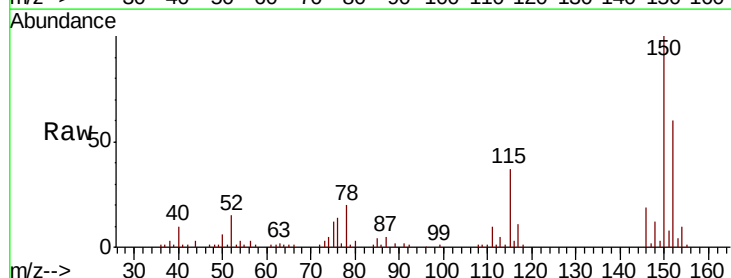
RT: 11.86 min Scan# 3349

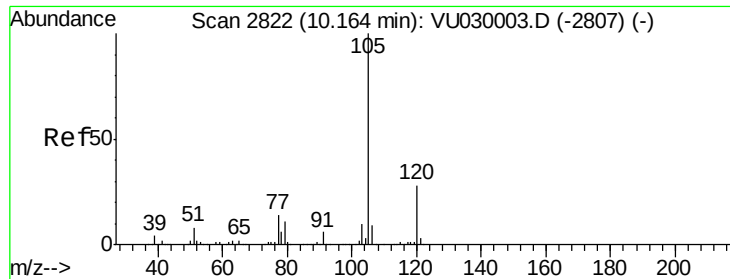
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	152	Resp:	23781
Ion Ratio	Lower	Upper	
152	100		
115	70.5	0.0	126.8
150	172.2	0.0	634.2





#69

Isopropylbenzene

Concen: 0.957 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:105 Resp: 71359

Ion Ratio Lower Upper

105 100

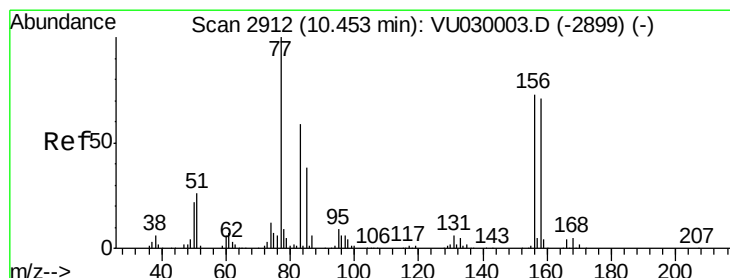
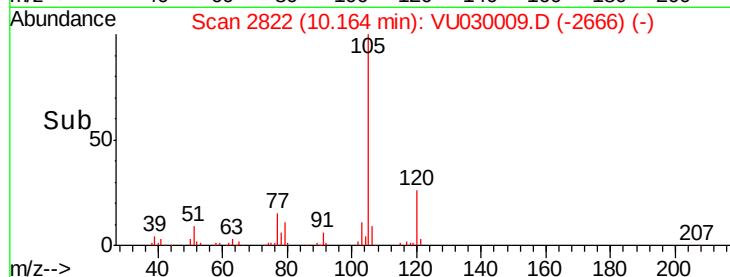
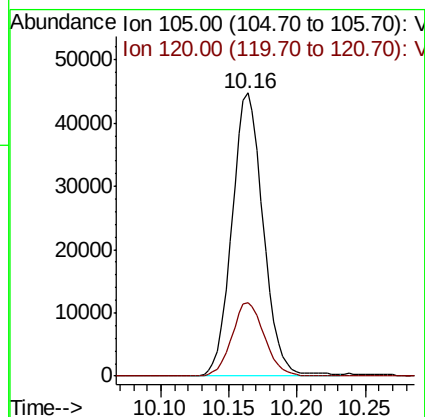
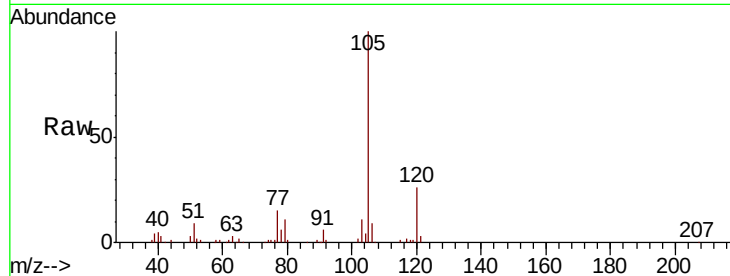
120 27.0 13.5 40.5

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 1.043 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

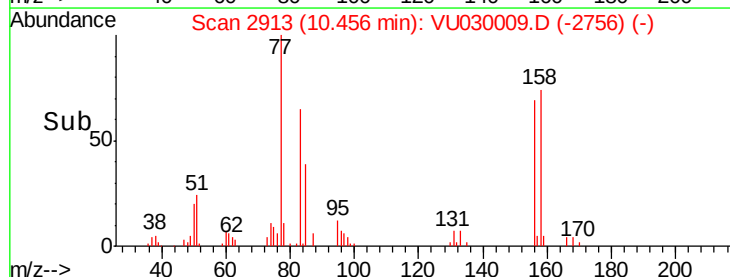
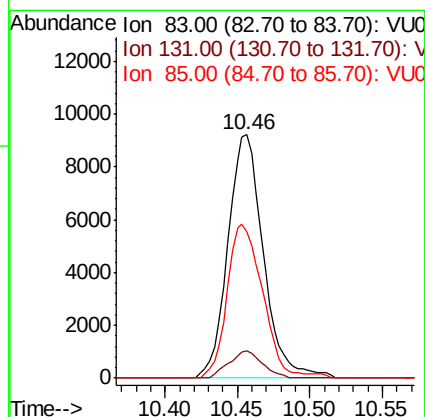
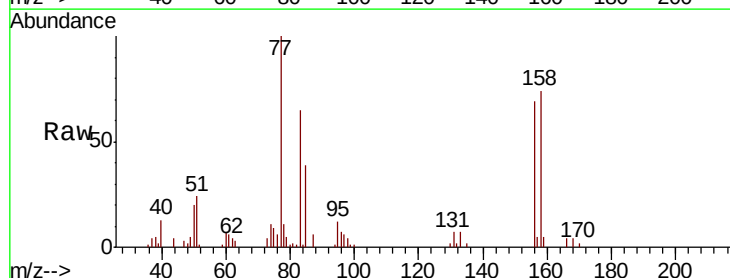
Tgt Ion: 83 Resp: 15675

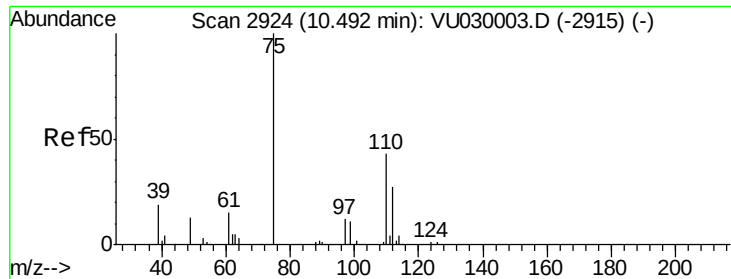
Ion Ratio Lower Upper

83 100

131 10.5 8.4 12.6

85 63.3 52.6 78.8





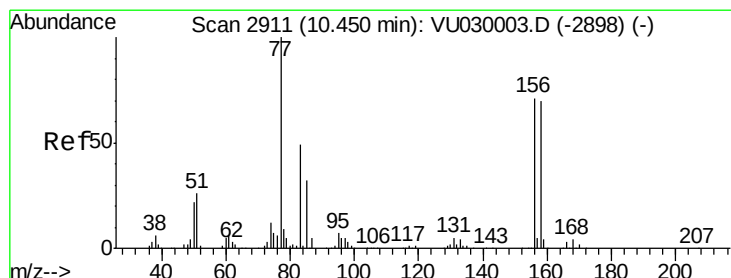
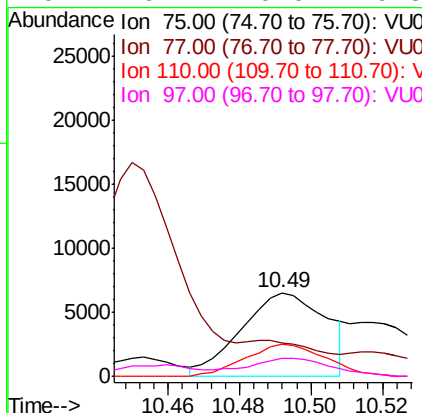
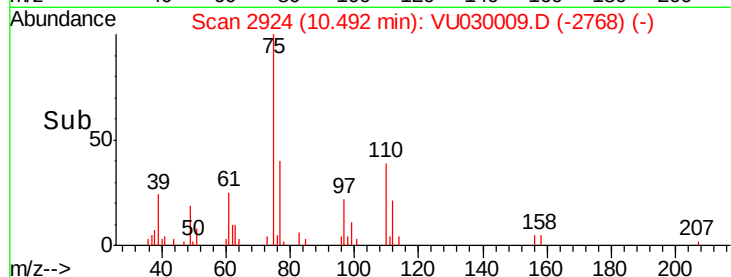
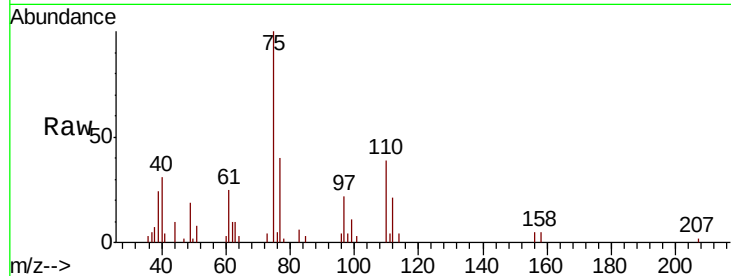
#71
 1,2,3-Trichloropropane
 Concen: 0.948 ug/l m
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	16.8
110	36.5	0.0	76.8
97	20.2	0.0	40.8

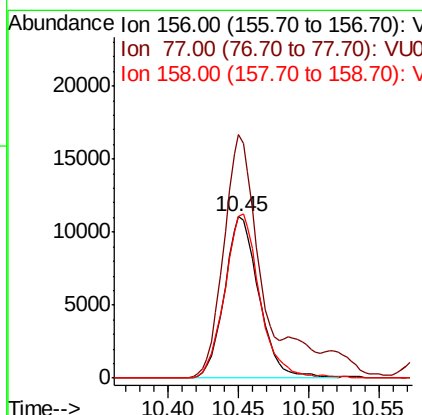
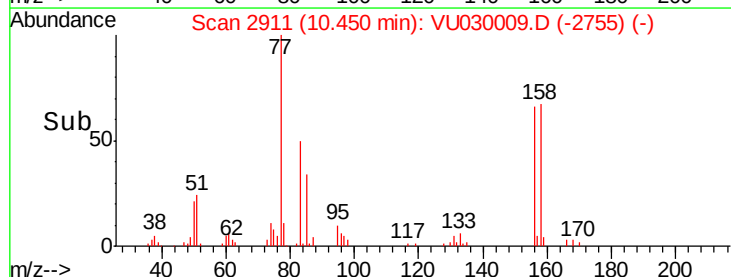
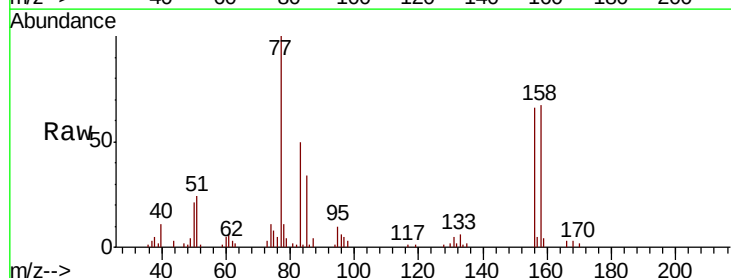
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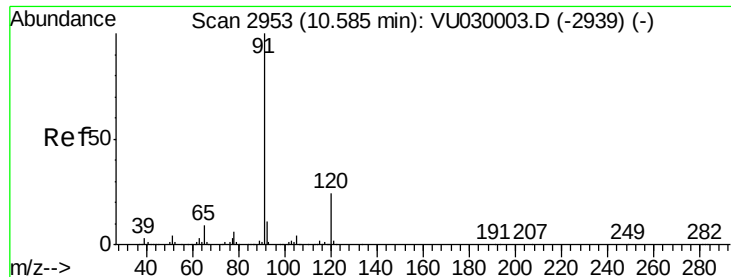
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#72
 Bromobenzene
 Concen: 0.963 ug/l
 RT: 10.45 min Scan# 2911
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
156	100		
77	145.6	0.0	278.6
158	102.6	0.0	195.2





#73

n-propylbenzene

Concen: 0.922 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:120 Resp: 19504

Ion Ratio Lower Upper

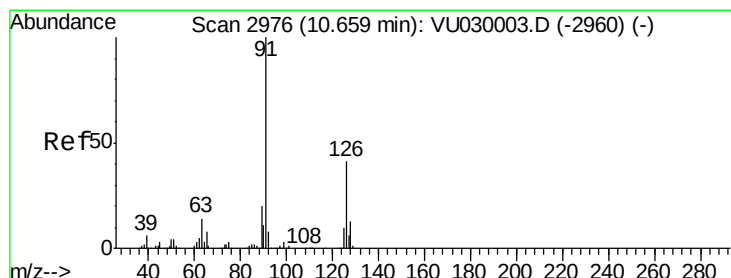
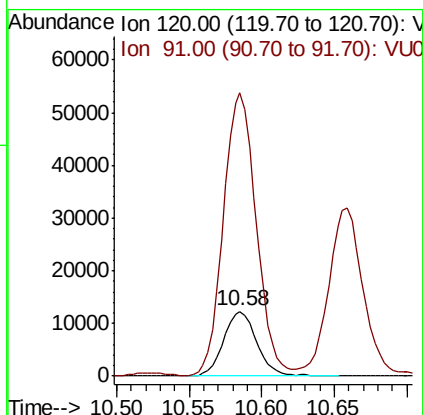
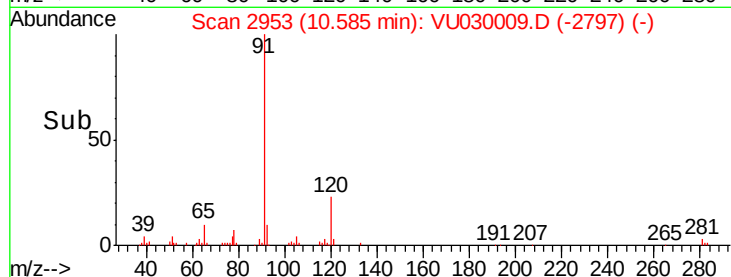
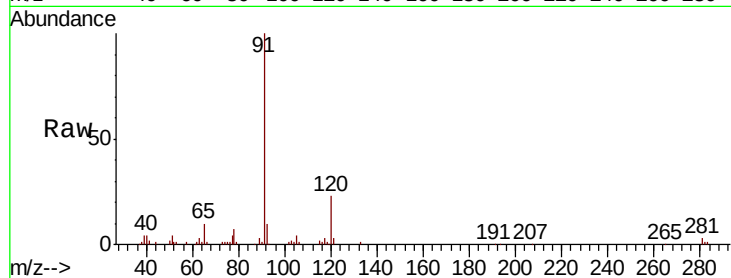
120 100

91 430.5 335.4 503.0

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#74

2-Chlorotoluene

Concen: 0.984 ug/l

RT: 10.66 min Scan# 2975

Delta R.T. -0.00 min

Lab File: VU030009.D

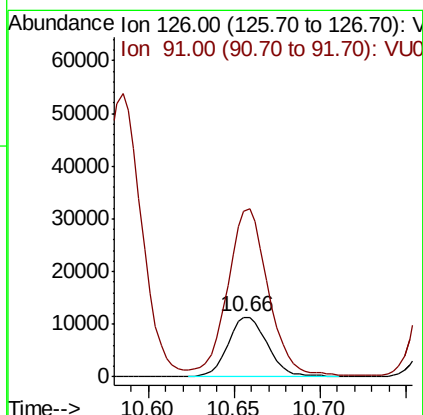
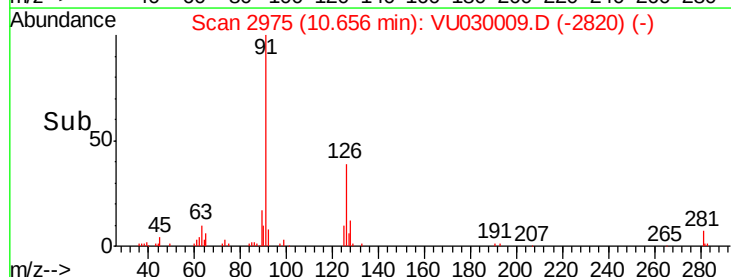
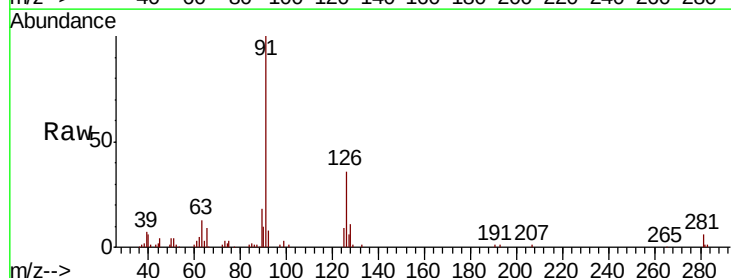
Acq: 12 Mar 2019 16:19

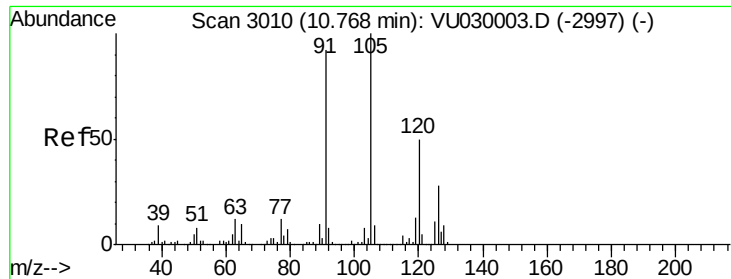
Tgt Ion:126 Resp: 18232

Ion Ratio Lower Upper

126 100

91 284.2 0.0 561.0





#75

1,3,5-Trimethylbenzene

Concen: 0.936 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:105 Resp: 59482

Ion Ratio Lower Upper

105 100

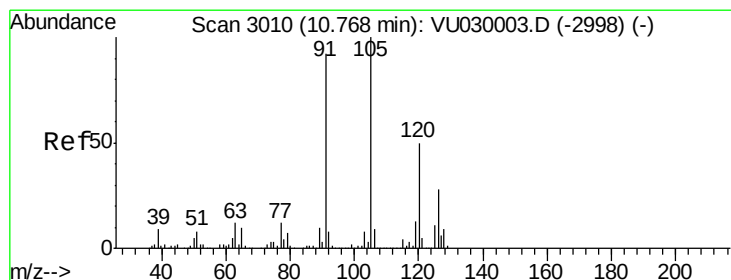
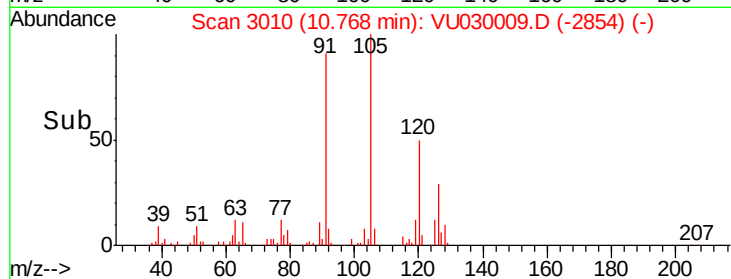
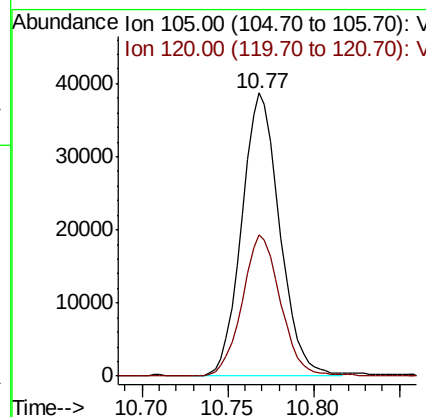
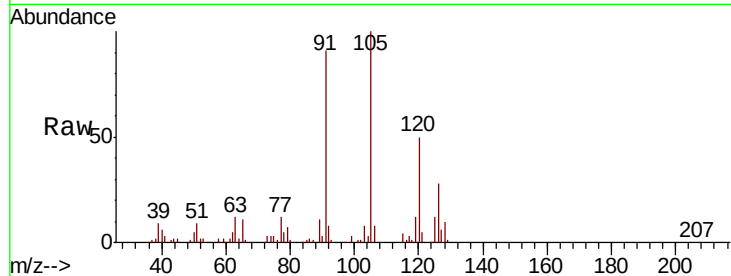
120 50.2 39.8 59.8

Manual Integrations

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#76

4-Chlorotoluene

Concen: 1.000 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030009.D

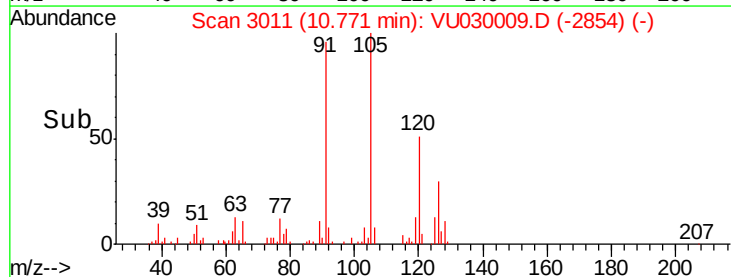
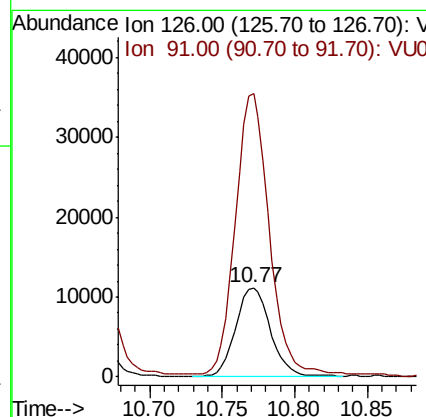
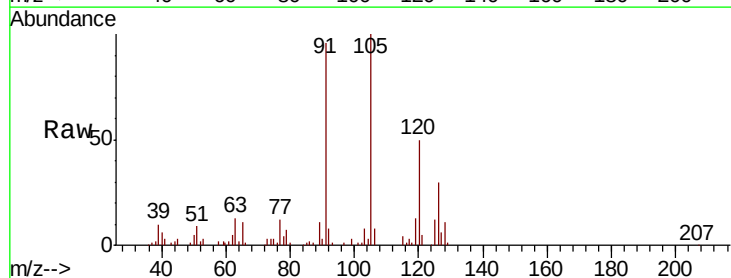
Acq: 12 Mar 2019 16:19

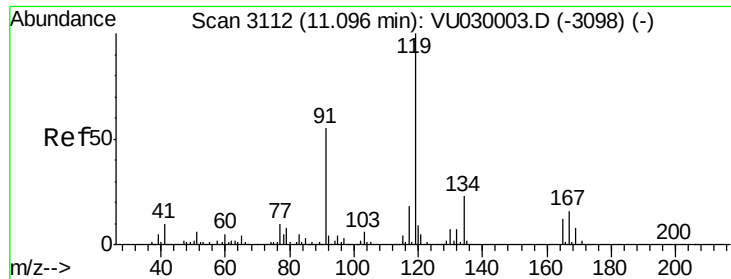
Tgt Ion:126 Resp: 18909

Ion Ratio Lower Upper

126 100

91 298.5 0.0 641.8





#77

tert-Butylbenzene

Concen: 0.956 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

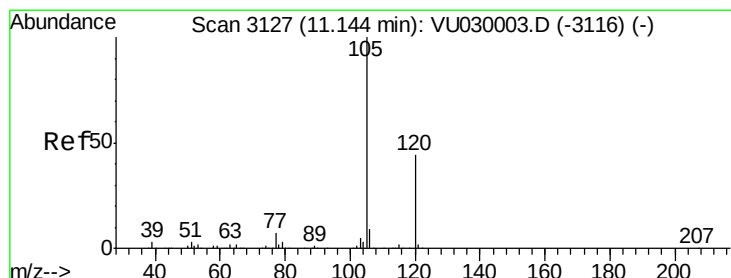
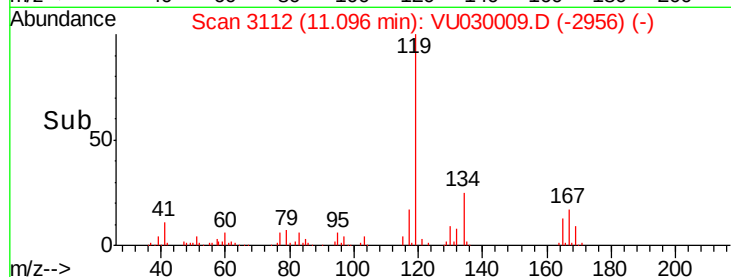
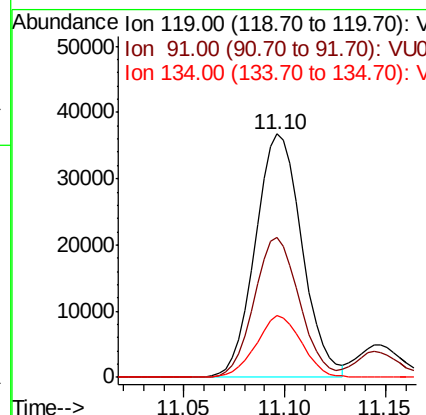
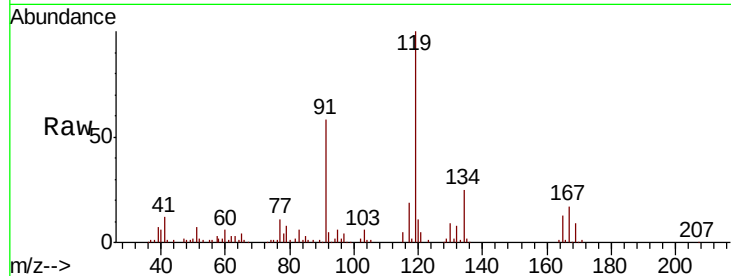
Instrument :
MSVOA_U

ClientSampleId :
LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	59464		
91	55.8	27.6	82.8	
134	24.8	18.7	28.1	

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#78

1,2,4-Trimethylbenzene

Concen: 0.963 ug/l

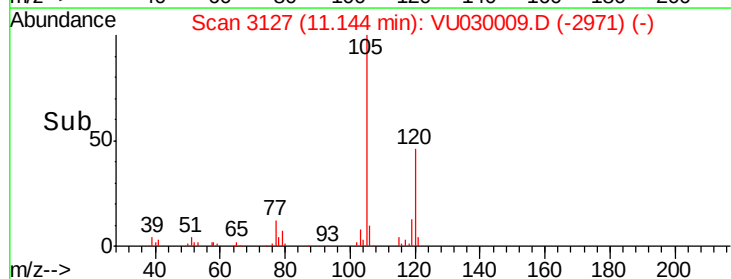
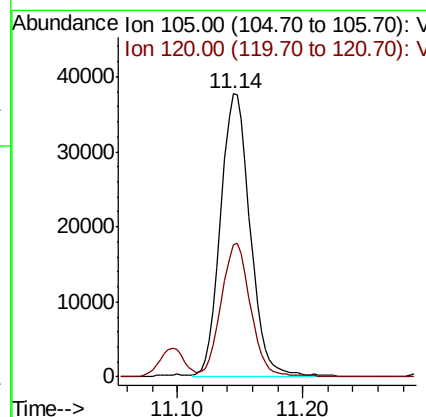
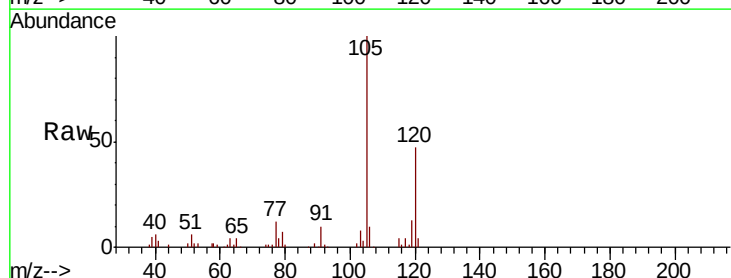
RT: 11.14 min Scan# 3127

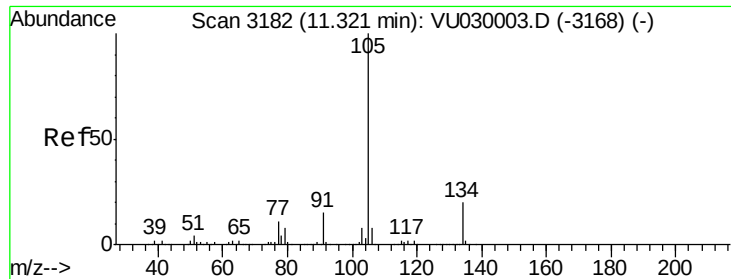
Delta R.T. 0.00 min

Lab File: VU030009.D

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Tgt Ion	Ratio	Resp	Lower	Upper
105	100	62257		
120	45.5	23.5	70.6	





#79

sec-Butylbenzene

Concen: 0.978 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2019

Tgt Ion:105 Resp: 81470

Ion Ratio Lower Upper

105 100

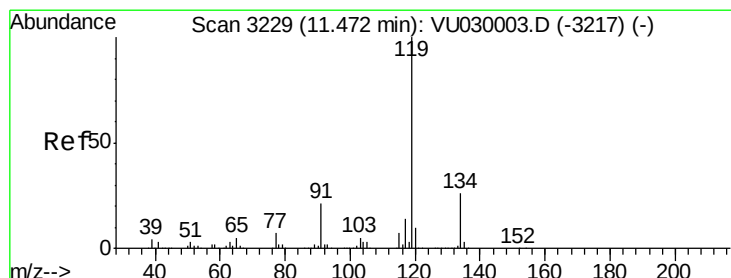
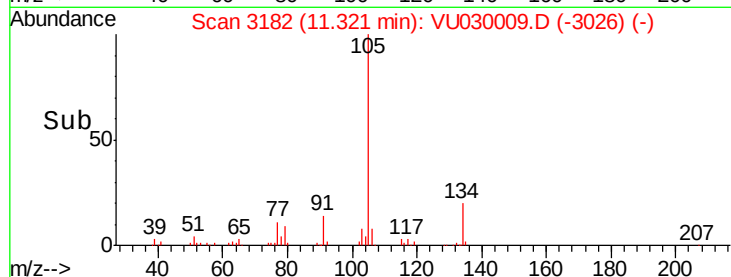
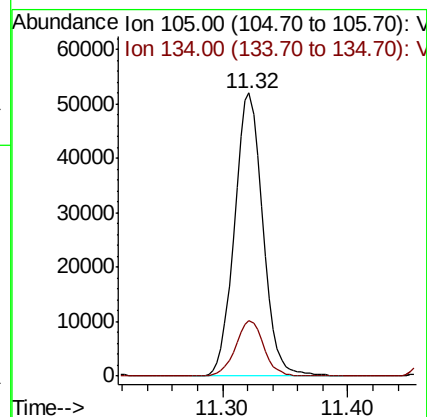
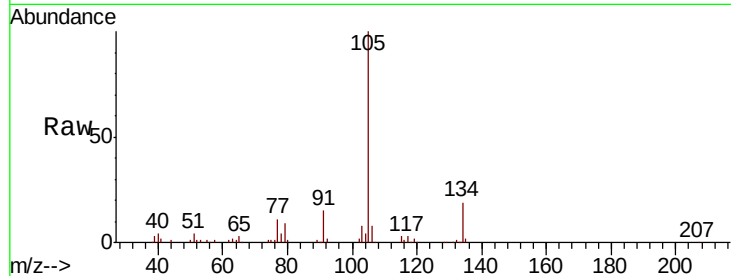
134 19.5 16.1 24.1

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#81

p-Isopropyltoluene

Concen: 0.957 ug/l

RT: 11.47 min Scan# 3229

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

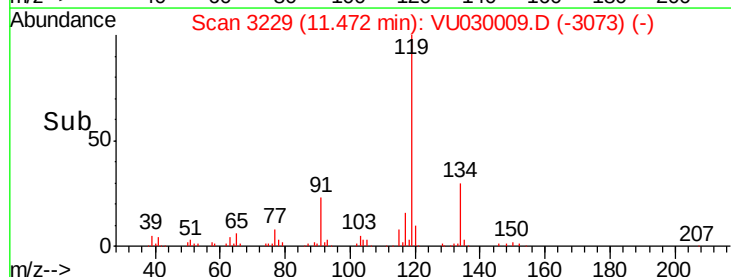
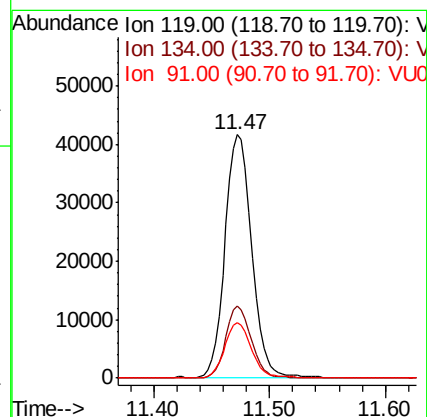
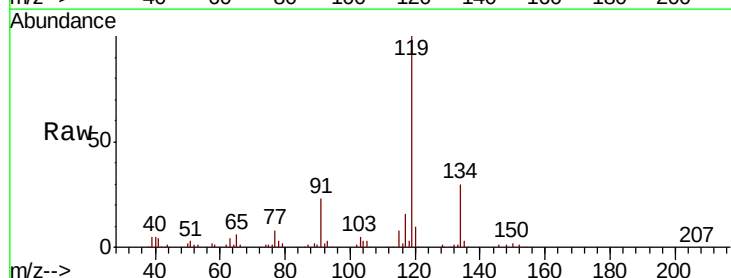
Tgt Ion:119 Resp: 66879

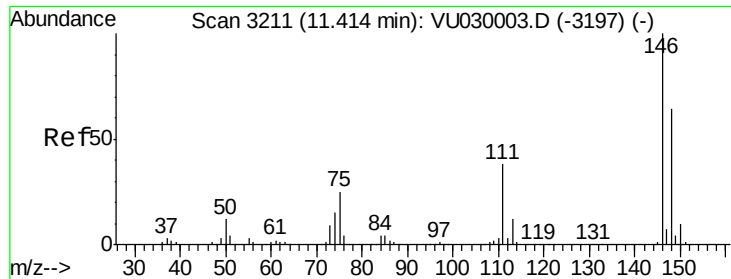
Ion Ratio Lower Upper

119 100

134 28.0 21.2 31.8

91 22.9 17.0 25.6





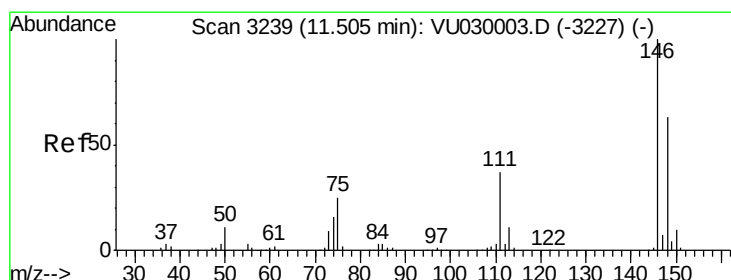
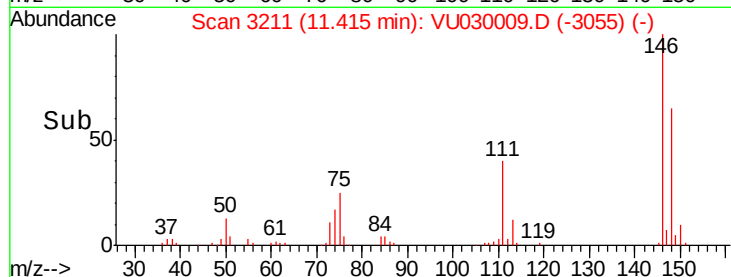
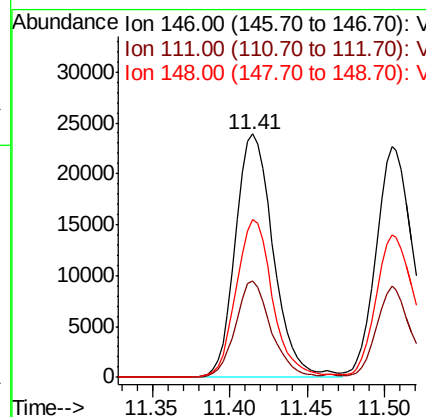
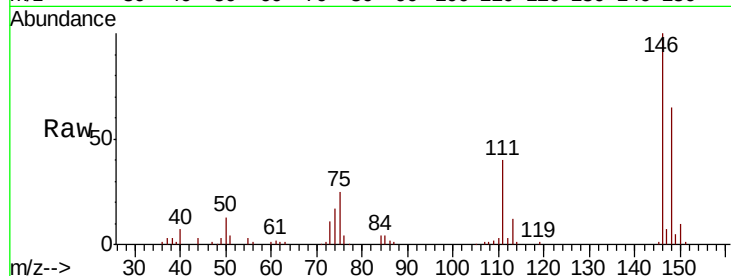
#82
 1,3-Dichlorobenzene
 Concen: 1.032 ug/l
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	30.3	45.5
148	62.2	51.1	76.7

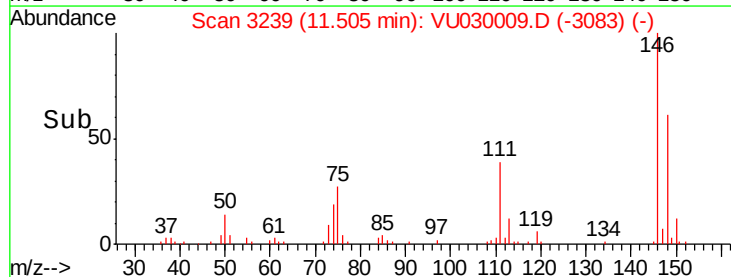
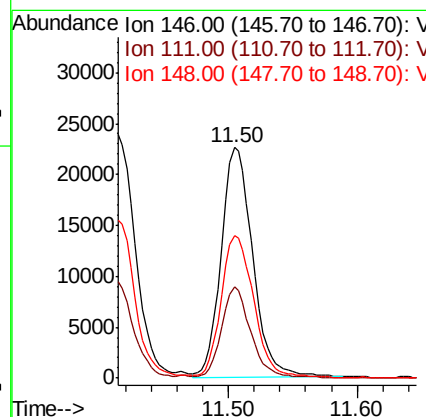
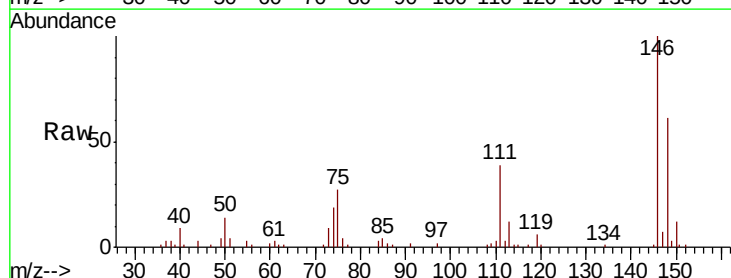
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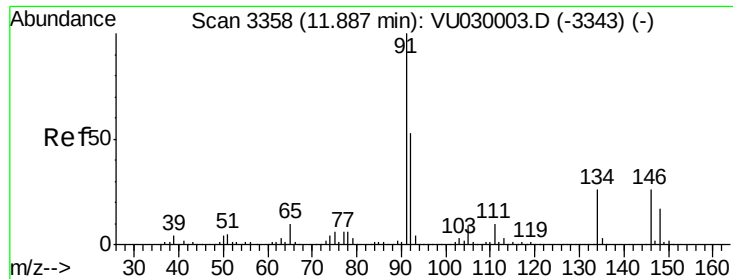
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#83
 1,4-Dichlorobenzene
 Concen: 0.964 ug/l
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	29.3	43.9
148	64.8	50.6	76.0





#84

n-Butylbenzene

Concen: 0.933 ug/l

RT: 11.89 min Scan# 3358

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

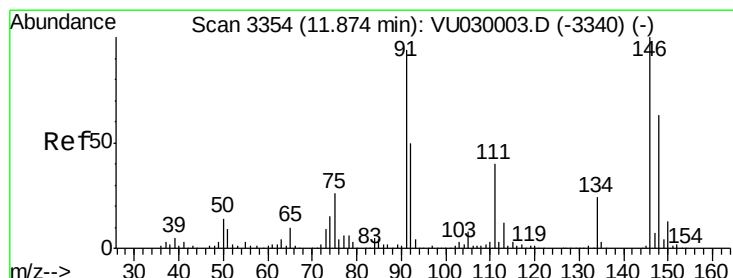
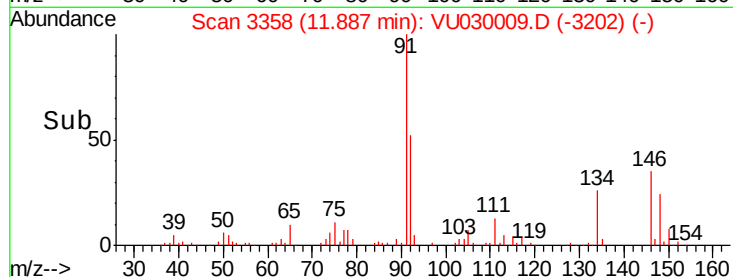
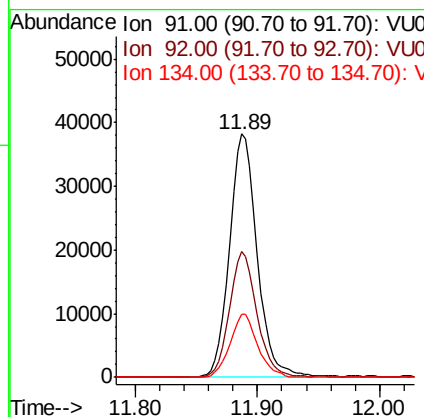
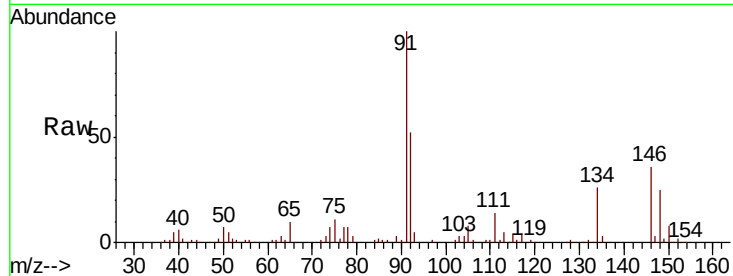
ClientSampleId :

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Tgt Ion:	91	Resp:	60940
Ion	Ratio	Lower	Upper
91	100		
92	51.1	42.4	63.6
134	25.8	21.4	32.0

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#85

1,2-Dichlorobenzene

Concen: 1.016 ug/l

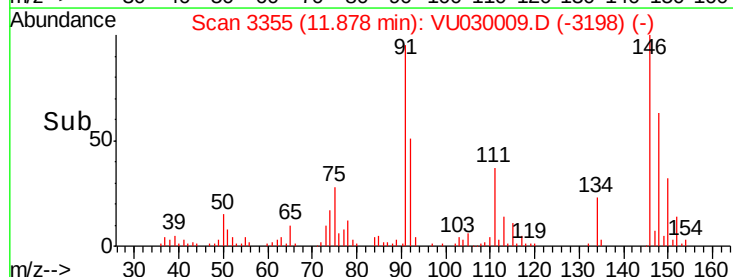
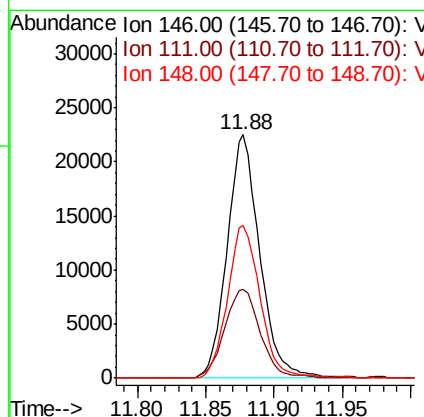
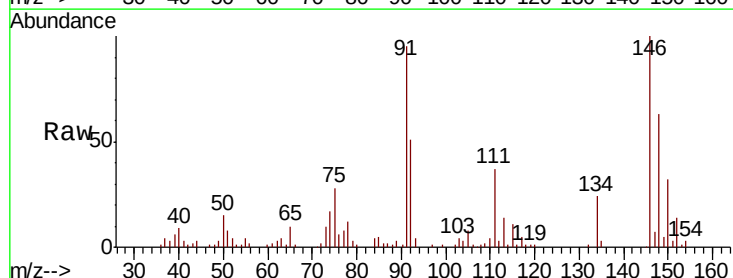
RT: 11.88 min Scan# 3355

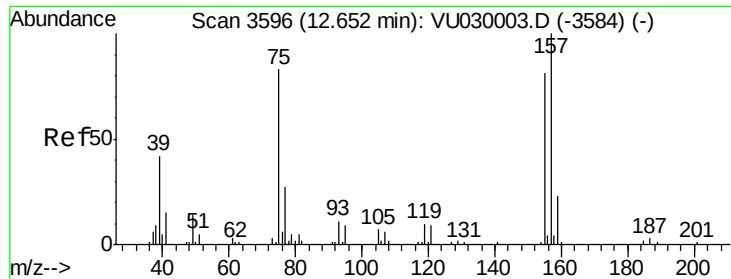
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	146	Resp:	37365
Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.9	59.7
148	62.9	31.7	95.1





#86

1,2-Dibromo-3-Chloropropane

Concen: 1.031 ug/l

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

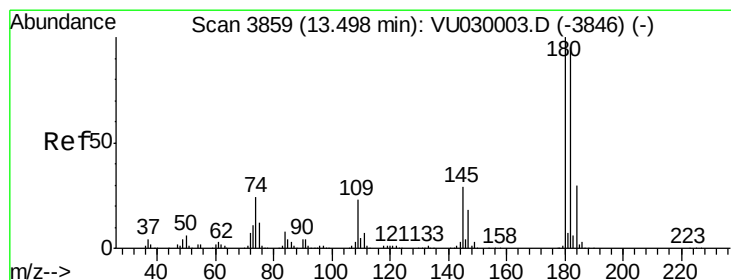
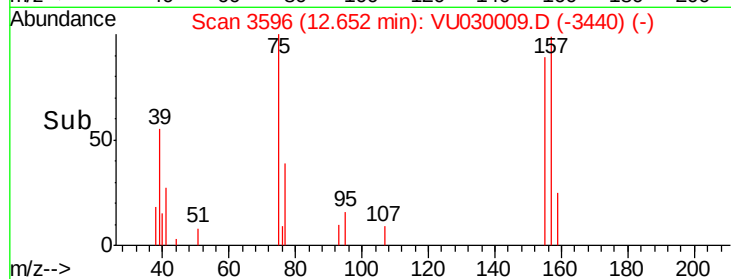
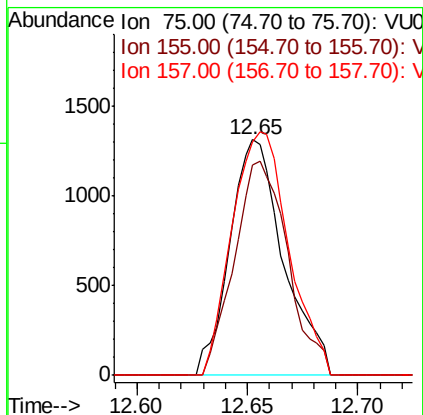
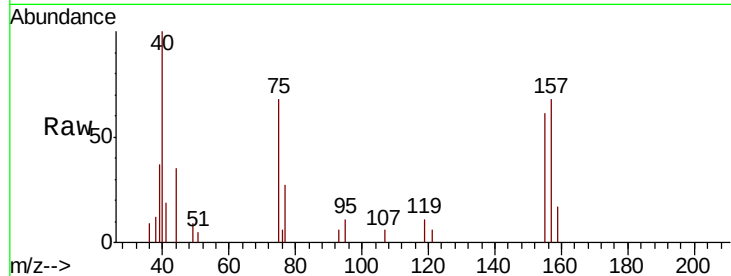
ClientSampleId :

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Tgt Ion:	75	Resp:	2231
Ion Ratio	Lower	Upper	
75	100		
155	89.9	78.2	117.4
157	108.8	97.2	145.8

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#87

1,2,4-Trichlorobenzene

Concen: 0.869 ug/l

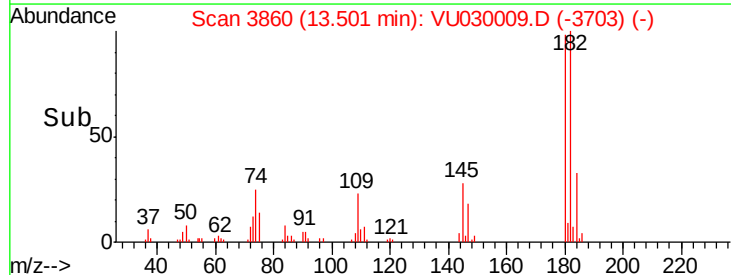
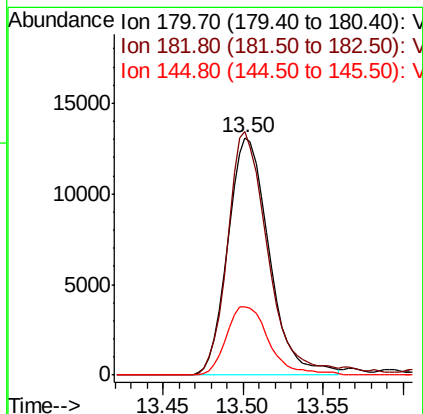
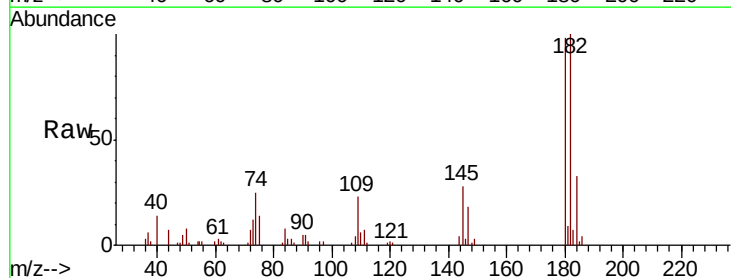
RT: 13.50 min Scan# 3860

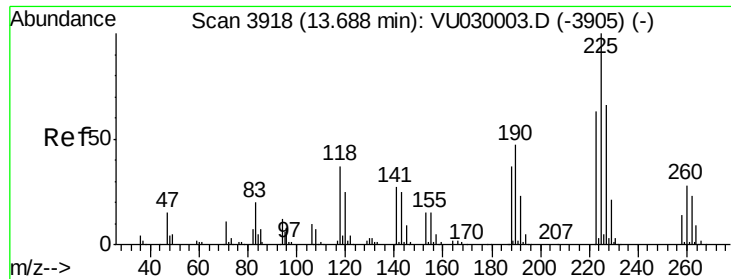
Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Tgt Ion:	180	Resp:	23063
Ion Ratio	Lower	Upper	
180	100		
182	99.6	76.2	114.2
145	29.7	23.0	34.6





#88

Hexachlorobutadiene

Concen: 1.145 ug/l

RT: 13.69 min Scan# 3918

Delta R.T. 0.00 min

Lab File: VU030009.D

Acq: 12 Mar 2019 16:19

Instrument :

MSVOA_U

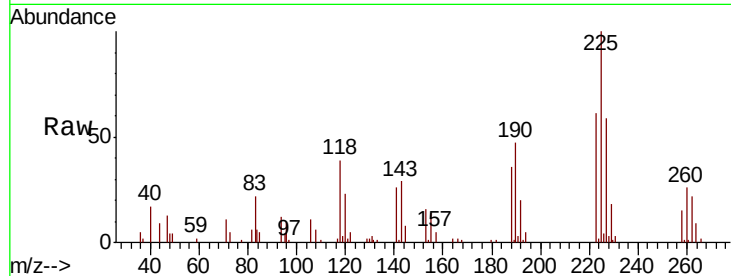
ClientSampleId :

LOQ-WATER-02-QT1-2019

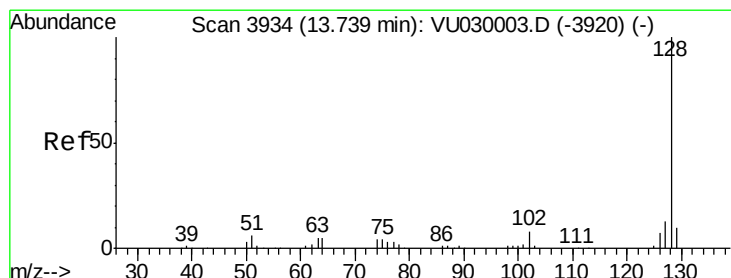
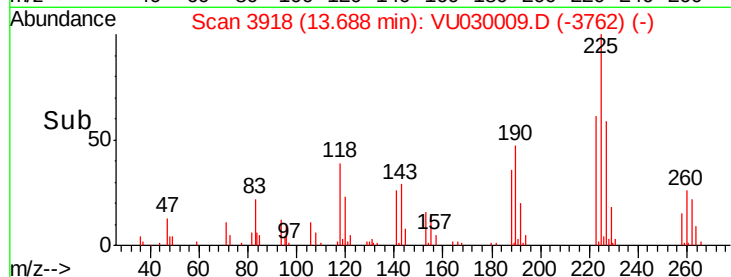
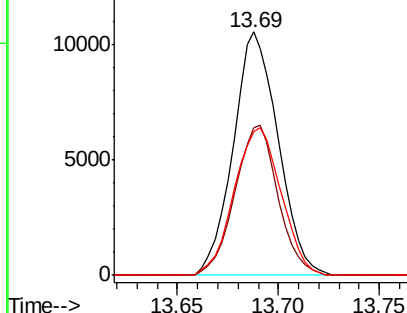
Tgt Ion:	225	Resp:	16474
Ion Ratio	Lower	Upper	
225	100		
223	59.2	50.7	76.1
227	63.3	52.6	78.8

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Abundance Ion 224.60 (224.30 to 225.30): V
Ion 222.60 (222.30 to 223.30): V
Ion 226.60 (226.30 to 227.30): V



#89

Naphthalene

Concen: 0.854 ug/l

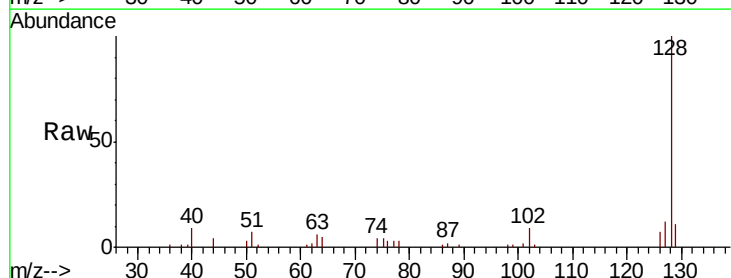
RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

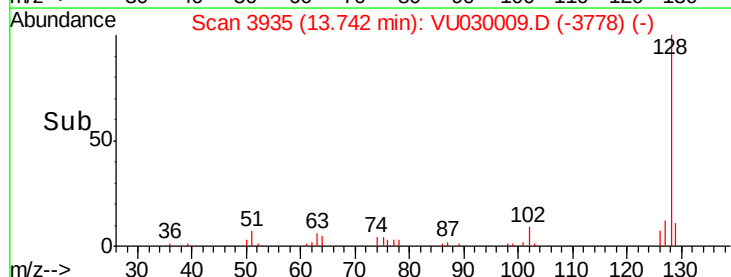
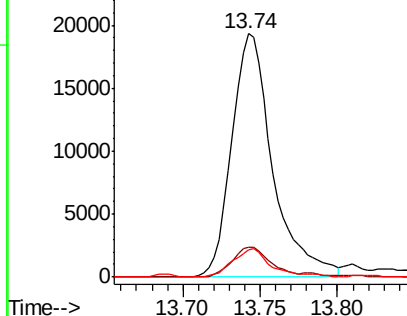
Lab File: VU030009.D

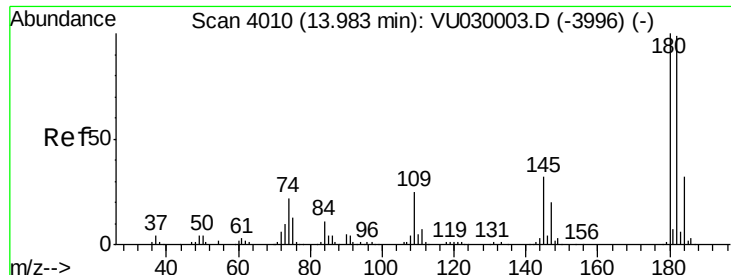
Acq: 12 Mar 2019 16:19

Tgt Ion:	128	Resp:	35512
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.1	15.1
129	10.9	8.5	12.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#90
 1,2,3-Trichlorobenzene
 Concen: 0.983 ug/l
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU030009.D
 Acq: 12 Mar 2019 16:19

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	77.6	116.4
145	29.3	24.7	37.1

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