

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041519\
 Data File : VX008965.D
 Acq On : 15 Apr 2019 17:09
 Operator : JC/SP
 Sample : K2241-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/16/2019 10:54:06 AM

Quant Time: Apr 16 10:51:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 10:48:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	212800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	345884	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	298650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	133957	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	152300	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
35) Dibromofluoromethane	5.50	113	108397	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	446081	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
62) 4-Bromofluorobenzene	11.13	95	151788	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	4564	1.862	ug/l	98
3) Chloromethane	1.32	50	6847	2.275	ug/l	100
4) Vinyl Chloride	1.41	62	5678	1.939	ug/l	98
5) Bromomethane	1.64	94	5778	3.037	ug/l	98
6) Chloroethane	1.70	64	4305	2.500	ug/l #	88
7) Trichlorofluoromethane	1.92	101	7271	2.126	ug/l	96
8) Diethyl Ether	2.19	74	3588	2.294	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	4674	2.138	ug/l	98
10) Methyl Iodide	2.50	142	15299	7.035	ug/l	99
11) Tert butyl alcohol	3.07	59	32602	48.975	ug/l	98
12) 1,1-Dichloroethene	2.37	96	4451	1.950	ug/l	95
13) Acrolein	2.29	56	23456	40.780	ug/l	98
14) Allyl chloride	2.73	41	10536	2.116	ug/l	95
15) Acrylonitrile	3.15	53	17328	10.254	ug/l	96
16) Acetone	2.45	43	15902	10.225	ug/l	95
17) Carbon Disulfide	2.56	76	13314	1.880	ug/l	96
18) Methyl Acetate	2.78	43	9690	2.497	ug/l	95
19) Methyl tert-butyl Ether	3.20	73	18188	2.237	ug/l	96
20) Methylene Chloride	2.85	84	6249	2.350	ug/l	93
21) trans-1,2-Dichloroethene	3.16	96	5138	2.111	ug/l	89
22) Diisopropyl ether	3.86	45	21425	2.215	ug/l	94
23) Vinyl Acetate	3.82	43	85987	10.111	ug/l	98
24) 1,1-Dichloroethane	3.70	63	10631	2.189	ug/l	94
25) 2-Butanone	4.68	43	25612	10.303	ug/l	100
26) 2,2-Dichloropropane	4.59	77	7504	2.061	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	6017	2.177	ug/l	93
28) Bromochloromethane	5.01	49	5607	2.490	ug/l	91
29) Tetrahydrofuran	5.14	42	17865	10.737	ug/l	99
30) Chloroform	5.21	83	9483	2.182	ug/l	93
31) Cyclohexane	5.58	56	10219	2.139	ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	7546	2.095	ug/l	99
36) 1,1-Dichloropropene	5.81	75	7432	2.078	ug/l	97
37) Ethyl Acetate	4.84	43	9261	2.012	ug/l #	89
38) Carbon Tetrachloride	5.78	117	6407	2.113	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	9000	2.066	ug/l	98
40) Benzene	6.15	78	22422	2.125	ug/l	96
41) Methacrylonitrile	5.05	41	5129	1.941	ug/l	92
42) 1,2-Dichloroethane	6.19	62	8660	2.317	ug/l	98
43) Isopropyl Acetate	6.45	43	15236	2.054	ug/l	97
44) Trichloroethene	7.21	130	5381	2.081	ug/l	89
45) 1,2-Dichloropropane	7.51	63	6354	2.170	ug/l #	88
46) Dibromomethane	7.66	93	3634	2.133	ug/l	96
47) Bromodichloromethane	7.90	83	6530	1.954	ug/l #	89
48) Methyl methacrylate	7.77	41	7229	1.972	ug/l	95
49) 1,4-Dioxane	7.75	88	2920	42.565	ug/l #	87
51) 4-Methyl-2-Pentanone	8.64	43	47173	9.982	ug/l	99
52) Toluene	8.78	92	13838	2.188	ug/l	95
53) t-1,3-Dichloropropene	9.04	75	7112	1.849	ug/l	97
54) cis-1,3-Dichloropropene	8.44	75	8190	1.902	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	5045	2.013	ug/l	95
56) Ethyl methacrylate	9.18	69	9016	2.006	ug/l	94
57) 1,3-Dichloropropane	9.37	76	9441	2.115	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.31	63	23857	9.857	ug/l	100
59) 2-Hexanone	9.49	43	35666	9.789	ug/l	100
60) Dibromochloromethane	9.58	129	4449	1.852	ug/l	98
61) 1,2-Dibromoethane	9.67	107	5431	2.099	ug/l	97
64) Tetrachloroethene	9.34	164	5130	2.261	ug/l	94
65) Chlorobenzene	10.14	112	13291	2.108	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.22	131	4579	2.062	ug/l	98
67) Ethyl Benzene	10.25	91	24425	2.120	ug/l	98
68) m/p-Xylenes	10.36	106	17238	4.116	ug/l	95
69) o-Xylene	10.70	106	8532	2.094	ug/l	99
70) Styrene	10.71	104	13855	1.962	ug/l	97
71) Bromoform	10.85	173	3075	1.738	ug/l #	98
73) Isopropylbenzene	11.02	105	22867	2.252	ug/l	99
74) N-amyl acetate	10.90	43	12506	2.145	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.27	83	8301	2.237	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	7746m	2.368	ug/l	
77) Bromobenzene	11.26	156	5307	2.072	ug/l	92
78) n-propylbenzene	11.36	91	25274	2.169	ug/l	99
79) 2-Chlorotoluene	11.42	91	16099	2.292	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	18345	2.153	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	2158m	1.694	ug/l	
82) 4-Chlorotoluene	11.51	91	17574	2.155	ug/l	99
83) tert-Butylbenzene	11.77	119	17699	2.164	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	18582	2.142	ug/l	100
85) sec-Butylbenzene	11.94	105	21394	2.193	ug/l	99
86) p-Isopropyltoluene	12.06	119	18674	2.082	ug/l	96
87) 1,3-Dichlorobenzene	12.02	146	9662	2.155	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	10034	2.208	ug/l	86
89) n-Butylbenzene	12.39	91	16946	2.029	ug/l	97
90) Hexachloroethane	12.60	117	2847	1.924	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	9814	2.217	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.00	75	1718	2.034	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	6519	2.040	ug/l	95
94) Hexachlorobutadiene	13.78	225	3182	1.996	ug/l	98
95) Naphthalene	13.83	128	20316	1.984	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	6495	2.060	ug/l	100

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

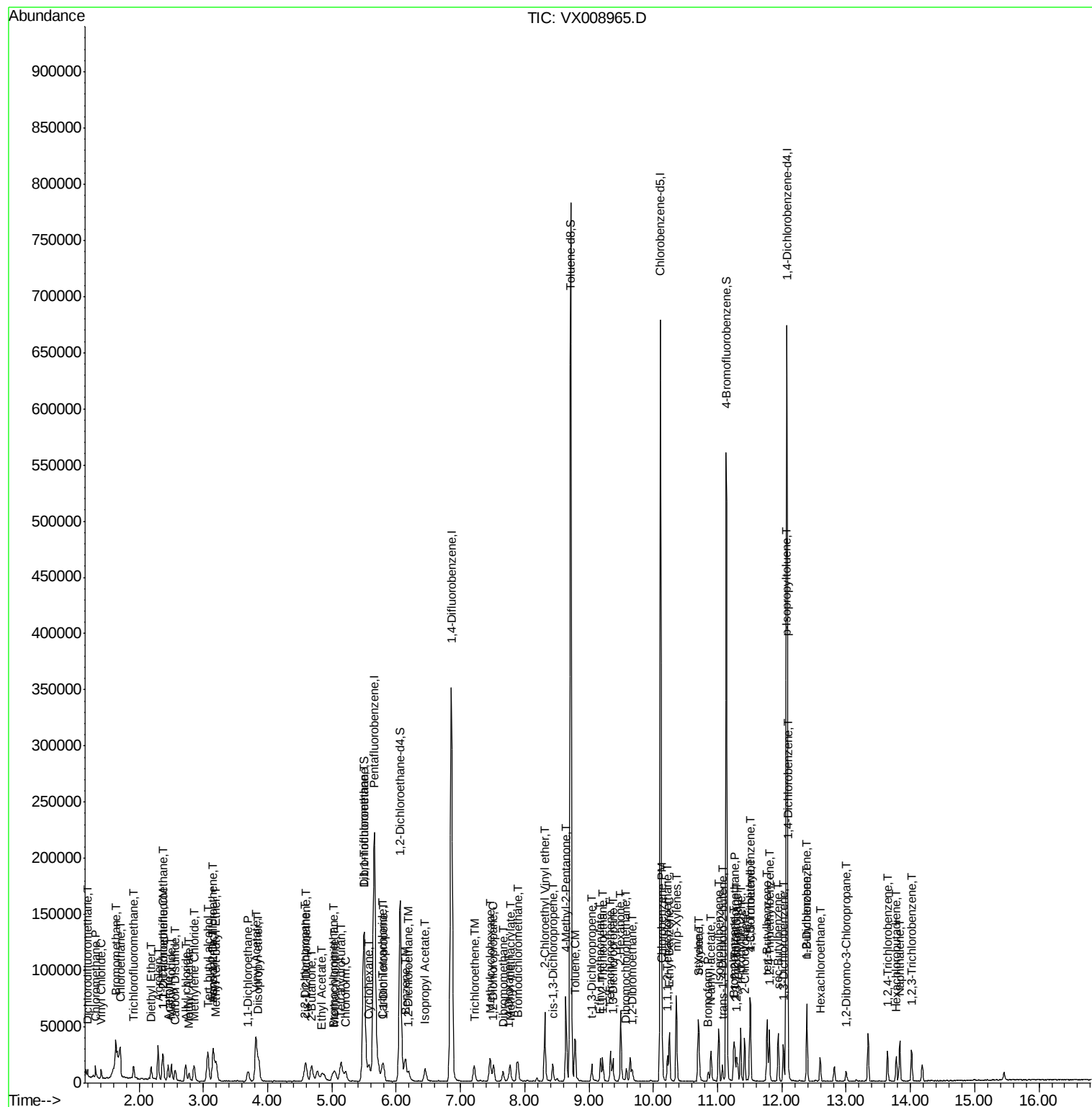
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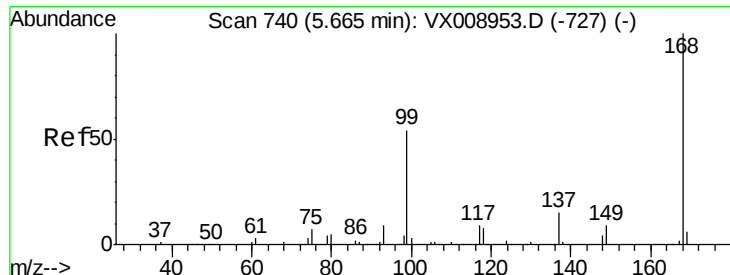
Instrument :
MSVOA_X
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:168 Resp: 212800

Ion Ratio Lower Upper

168 100

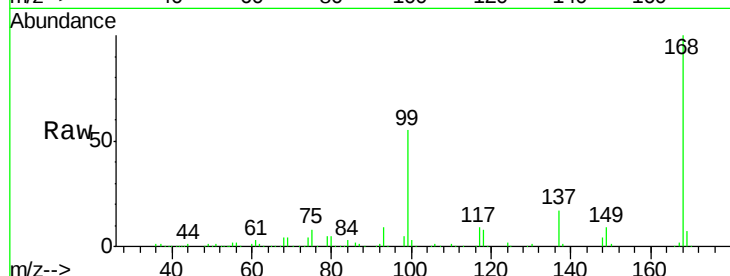
99 55.3 43.0 64.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

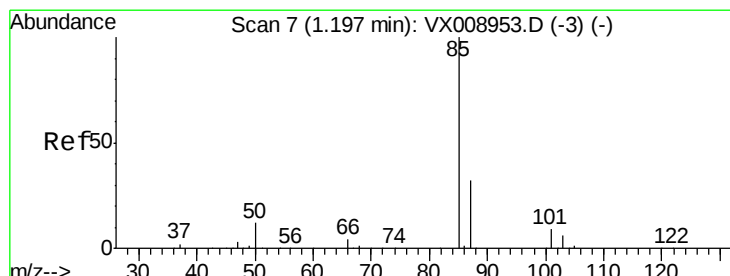
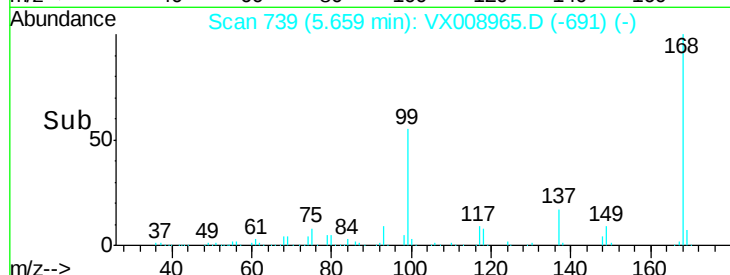
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.862 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX008965.D

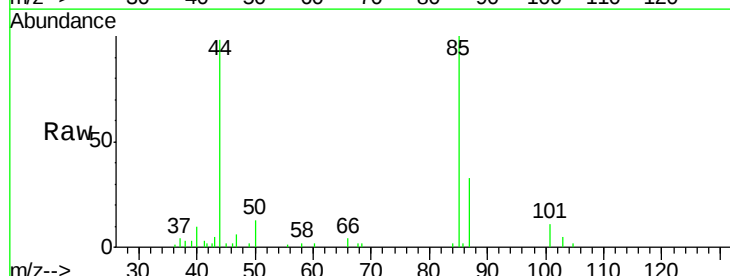
Acq: 15 Apr 2019 17:09

Tgt Ion: 85 Resp: 4564

Ion Ratio Lower Upper

85 100

87 32.8 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

4000

3000

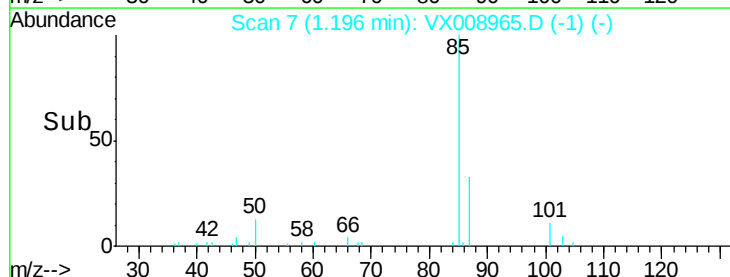
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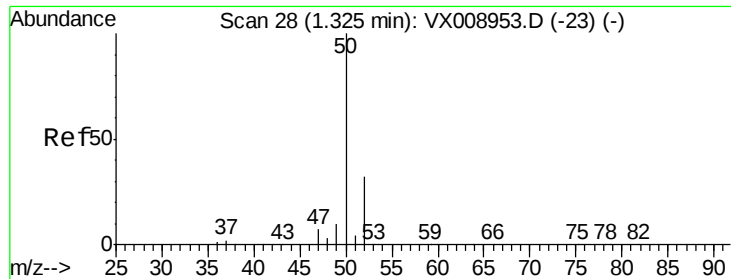
1000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 2.275 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 50 Resp: 6847

Ion Ratio Lower Upper

50 100

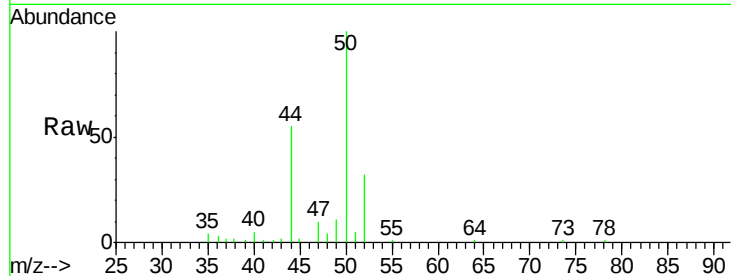
52 31.9 25.5 38.3

Manual Integrations

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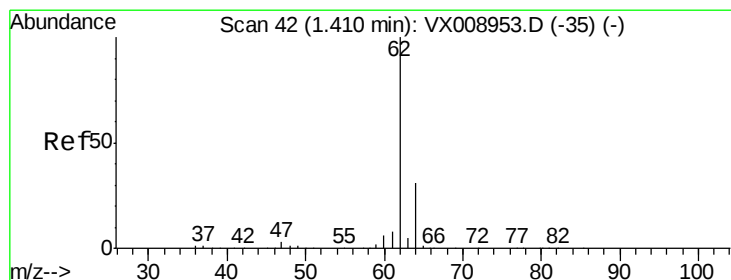
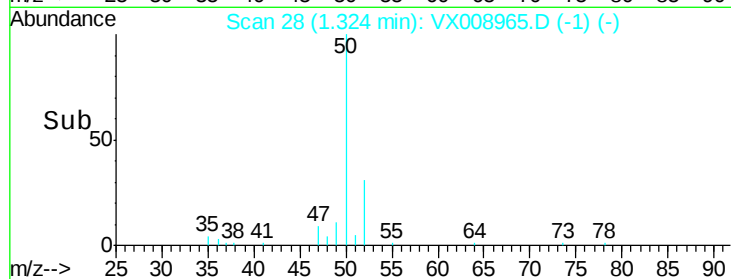
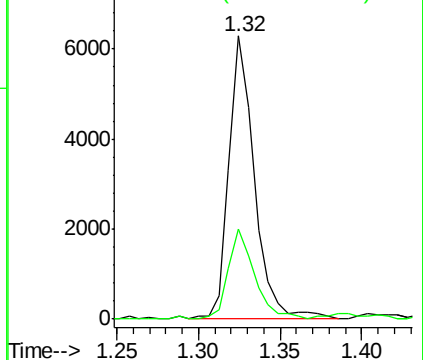
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 1.939 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008965.D

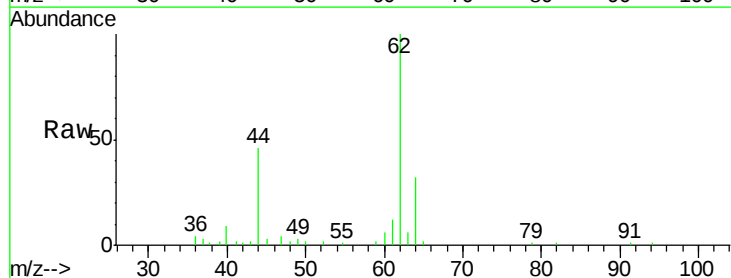
Acq: 15 Apr 2019 17:09

Tgt Ion: 62 Resp: 5678

Ion Ratio Lower Upper

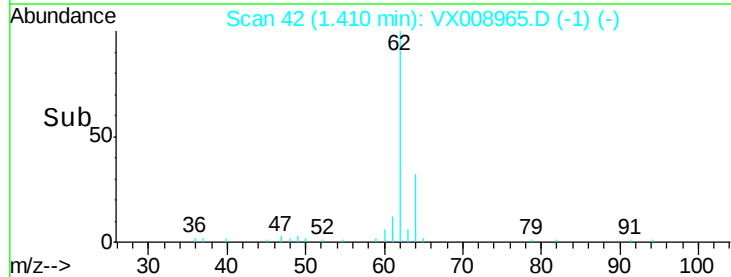
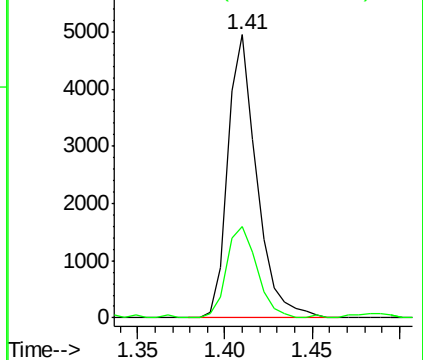
62 100

64 32.2 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 3.037 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

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ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 94 Resp: 5778

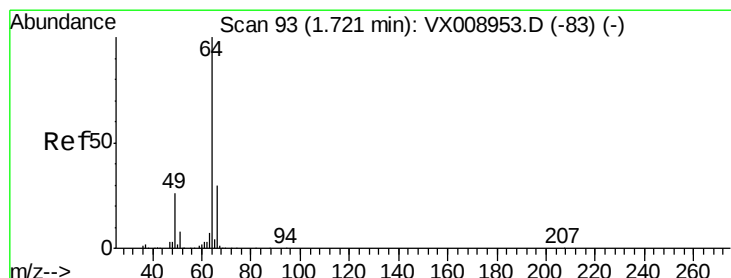
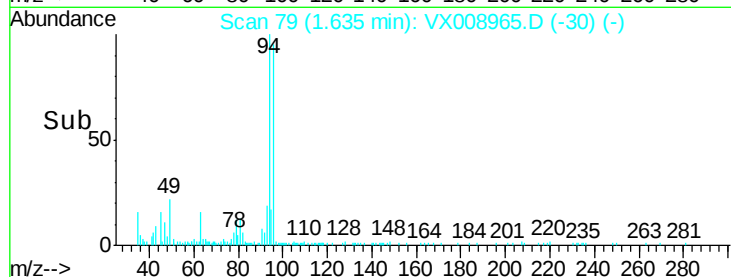
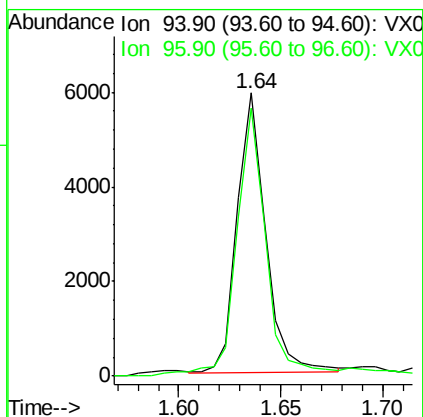
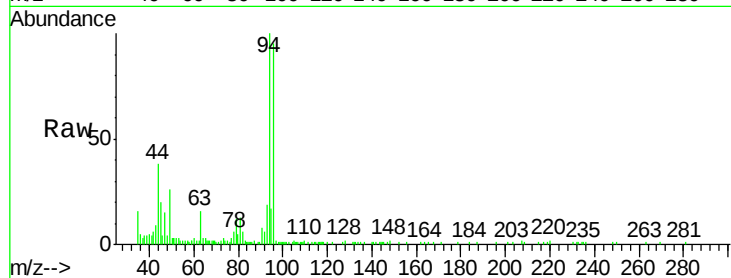
Ion Ratio Lower Upper

94 100

96 94.5 73.9 110.9

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#6

Chloroethane

Concen: 2.500 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.02 min

Lab File: VX008965.D

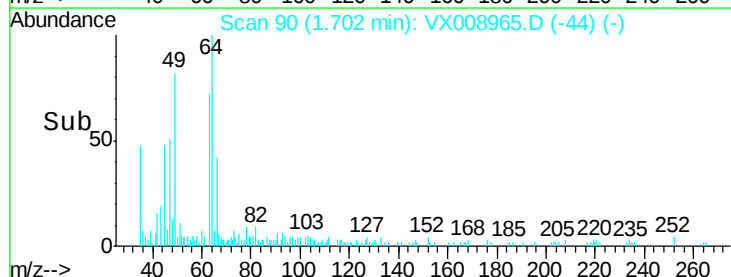
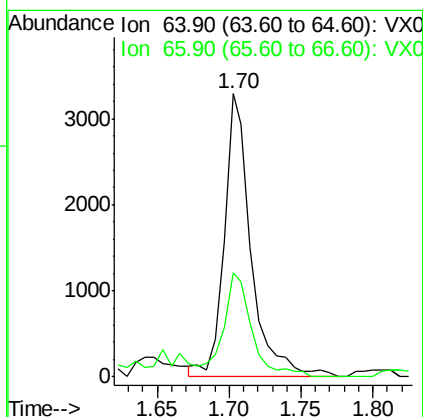
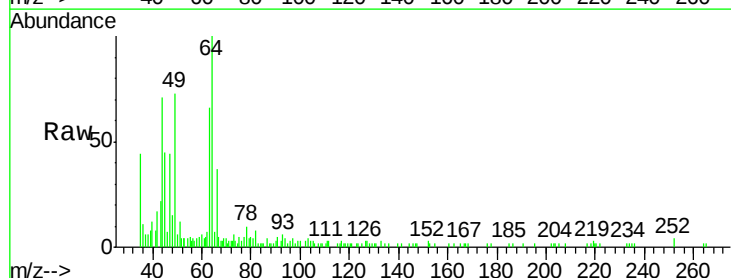
Acq: 15 Apr 2019 17:09

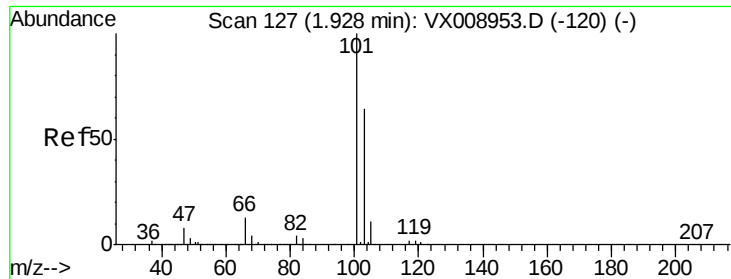
Tgt Ion: 64 Resp: 4305

Ion Ratio Lower Upper

64 100

66 36.6 24.2 36.2#





#7

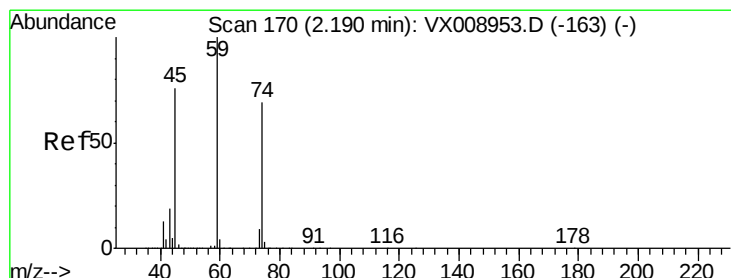
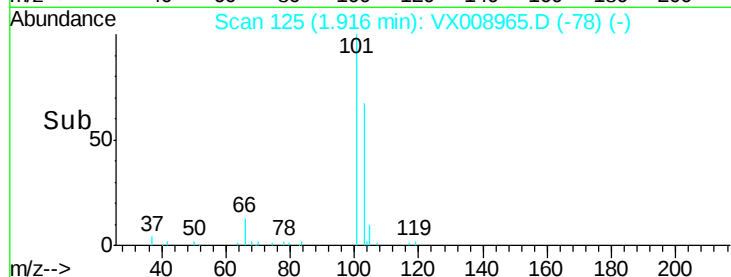
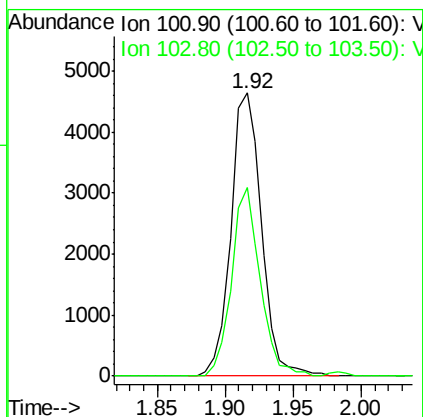
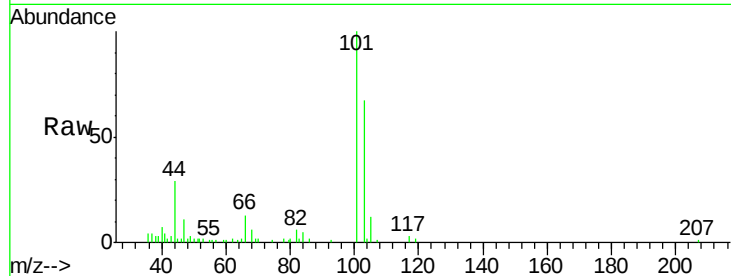
Trichlorofluoromethane
Concen: 2.126 ug/l
RT: 1.92 min Scan# 125
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.0	76.6

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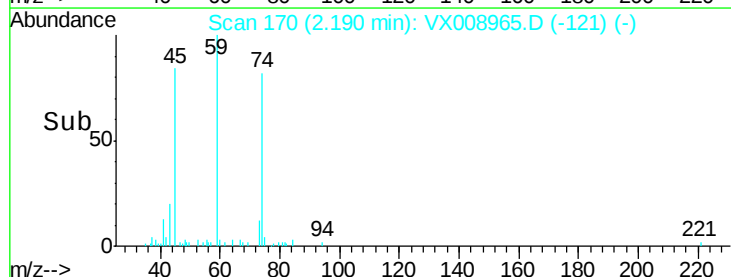
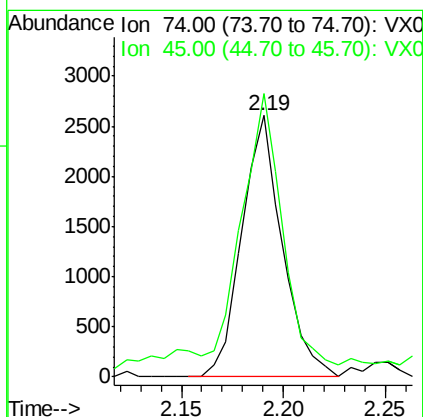
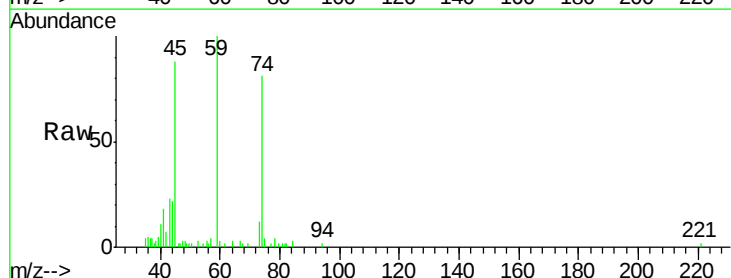
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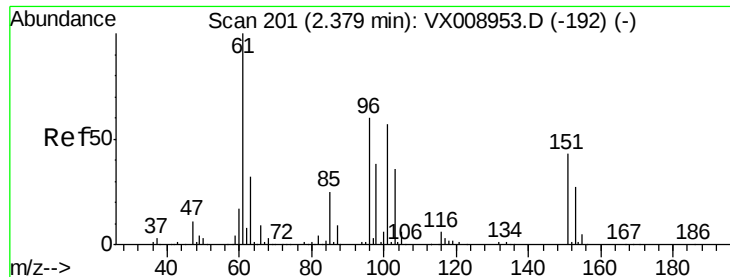


#8

Diethyl Ether
Concen: 2.294 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.8	54.9	164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.138 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

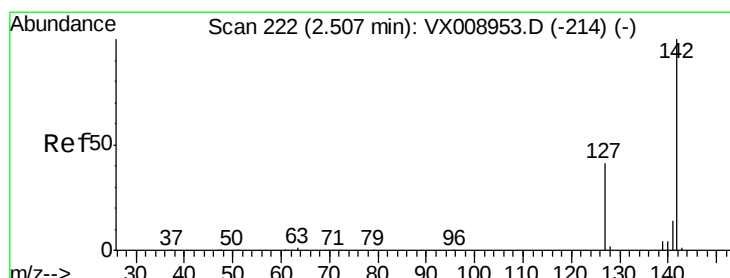
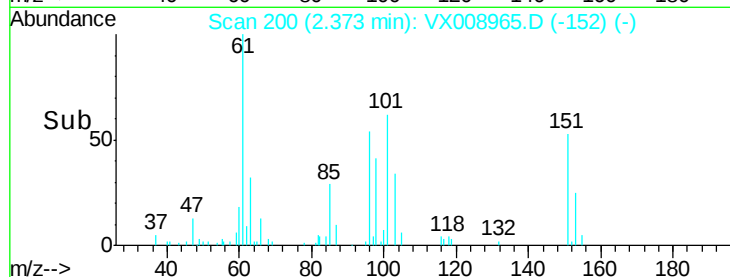
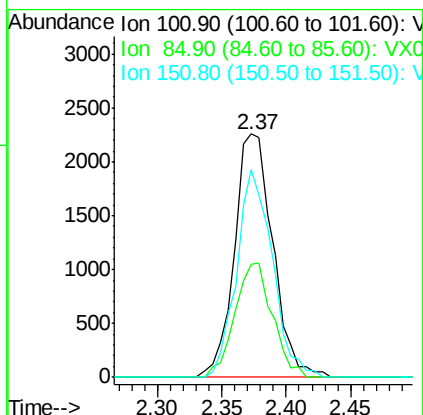
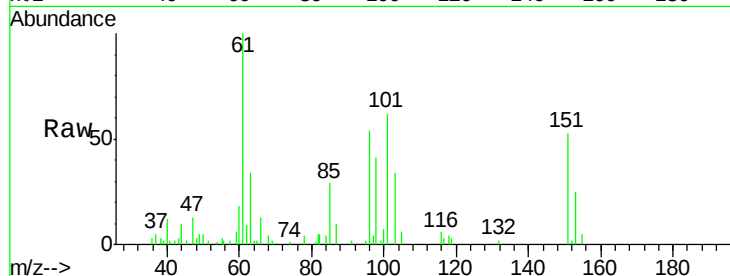
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	101	Resp:	4674
Ion Ratio	Lower	Upper	
101	100		
85	45.8	35.7	53.5
151	79.6	62.7	94.1

Manual Integrations
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4/16/2019 10:54:06 AM



#10

Methyl Iodide

Concen: 7.035 ug/l

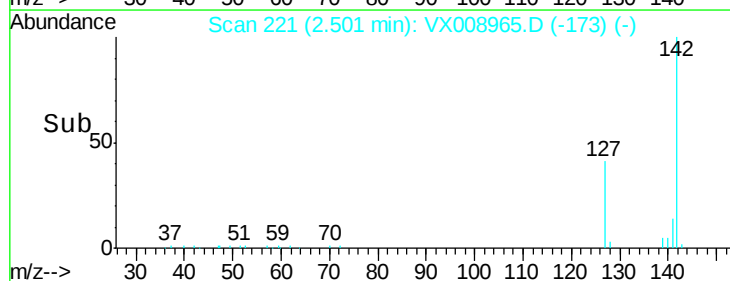
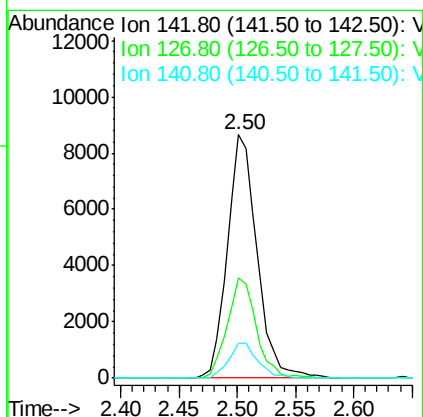
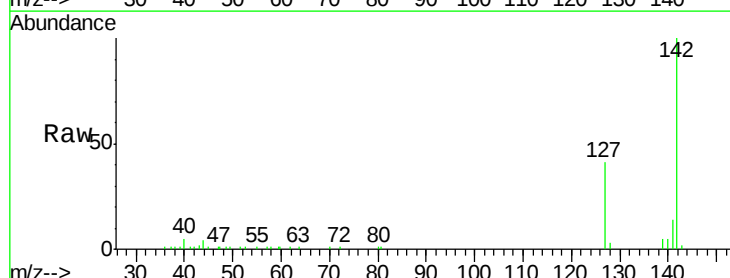
RT: 2.50 min Scan# 221

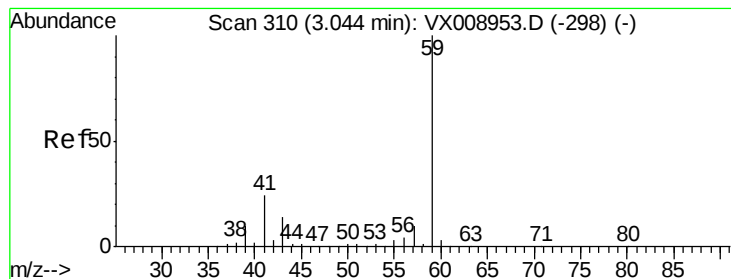
Delta R.T. -0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	142	Resp:	15299
Ion Ratio	Lower	Upper	
142	100		
127	40.4	32.8	49.2
141	14.0	11.4	17.2





#11

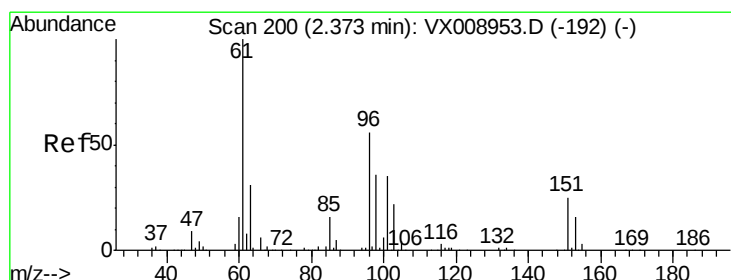
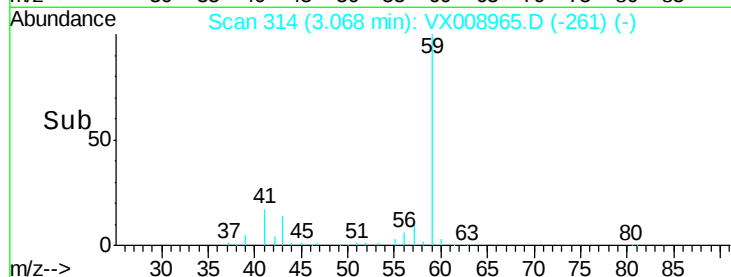
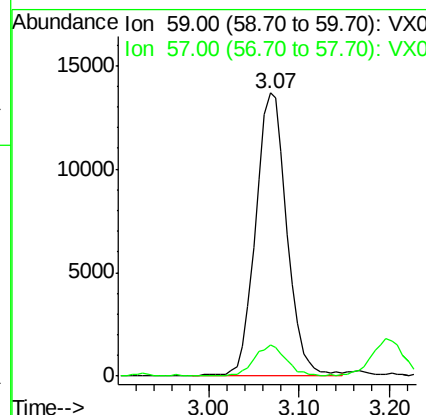
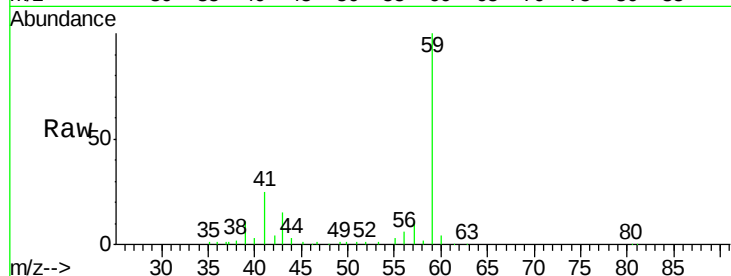
Tert butyl alcohol
 Concen: 48.975 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. 0.02 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.4	12.6

Manual Integrations
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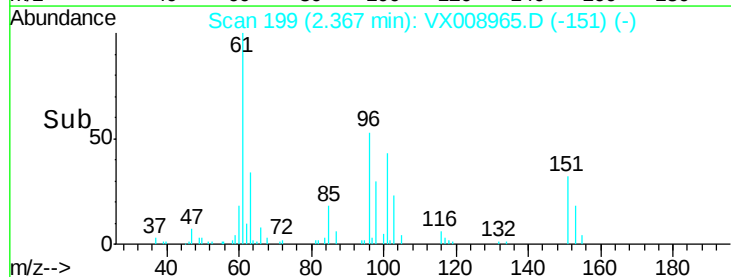
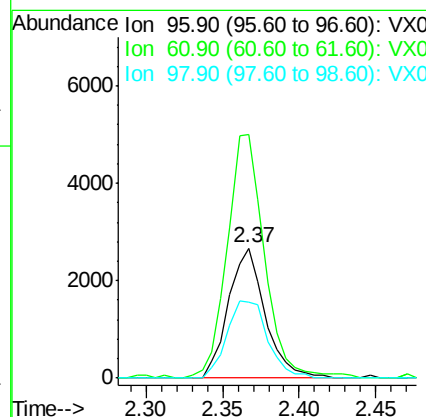
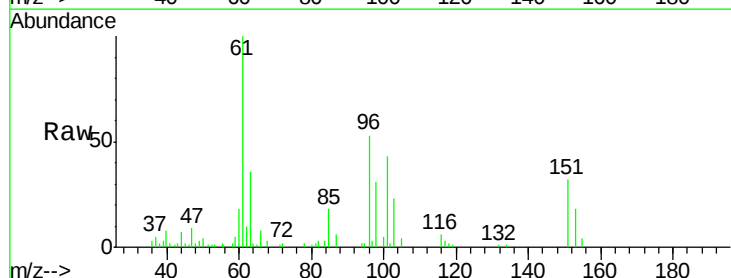
MMDadoda
 4/16/2019 10:54:06 AM

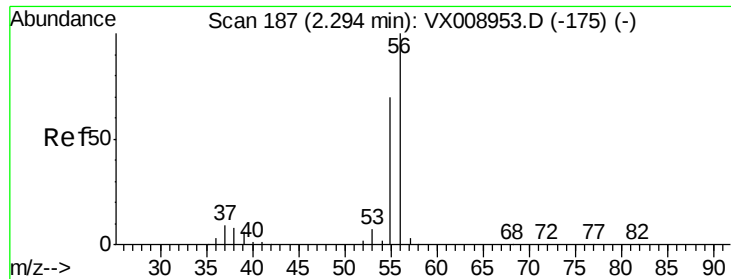


#12

1,1-Dichloroethene
 Concen: 1.950 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.01 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.7	142.2	213.2
98	58.8	50.9	76.3





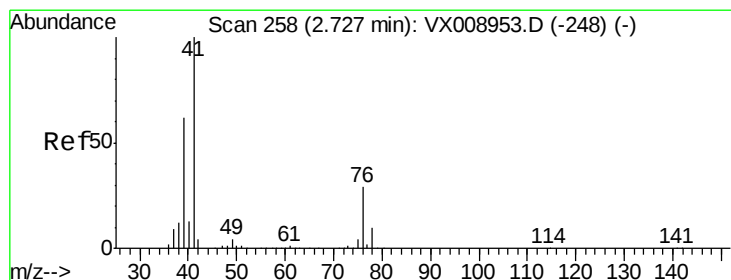
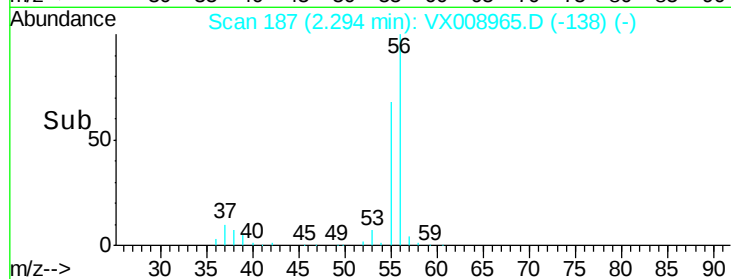
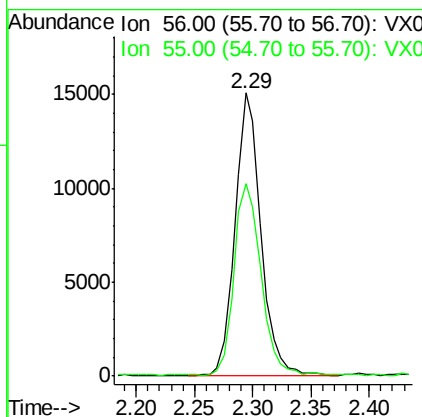
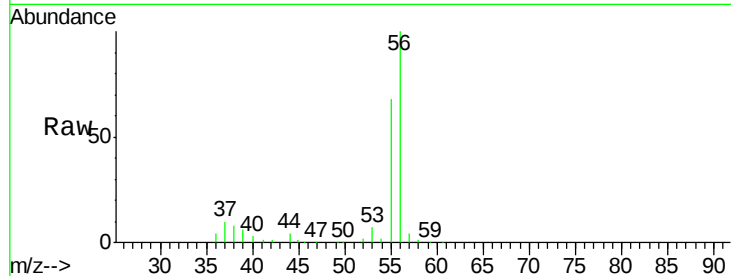
#13
Acrolein
Concen: 40.780 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	56	Resp	23456
Ion Ratio	100	Lower	Upper
56	100		
55	72.6	56.6	84.8

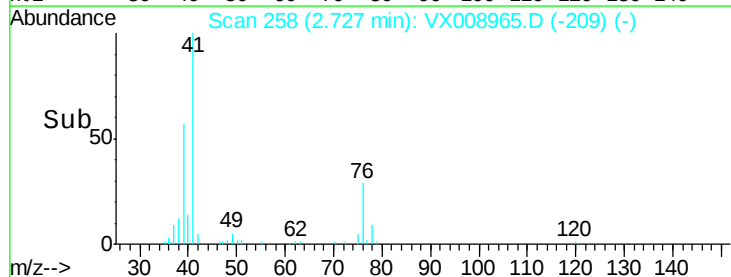
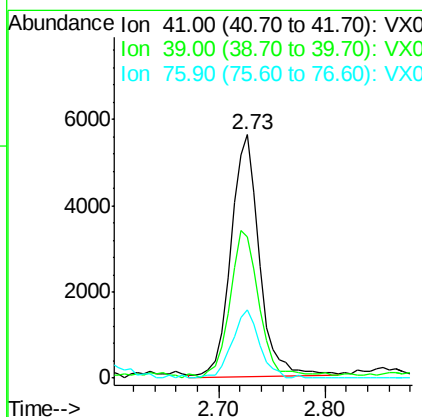
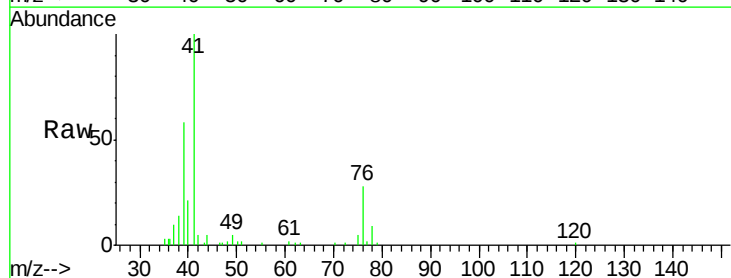
Manual Integrations
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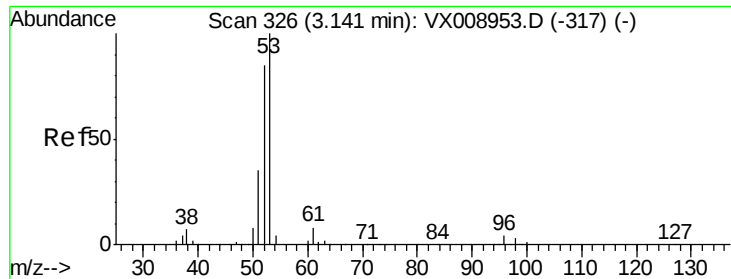
MMDadoda
4/16/2019 10:54:06 AM



#14
Allyl chloride
Concen: 2.116 ug/l
RT: 2.73 min Scan# 258
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	41	Resp	10536
Ion Ratio	100	Lower	Upper
41	100		
39	63.4	46.7	70.1
76	27.2	22.0	33.0





#15

Acrylonitrile

Concen: 10.254 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

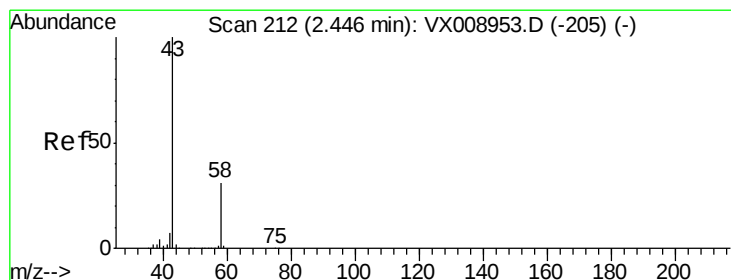
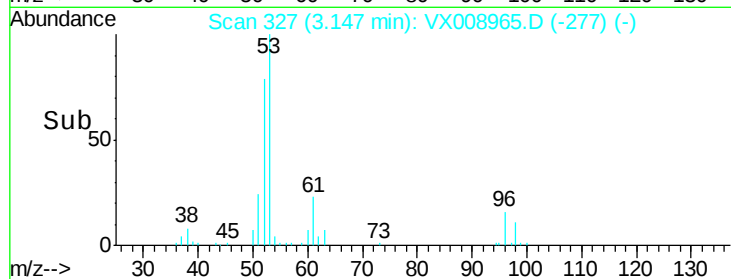
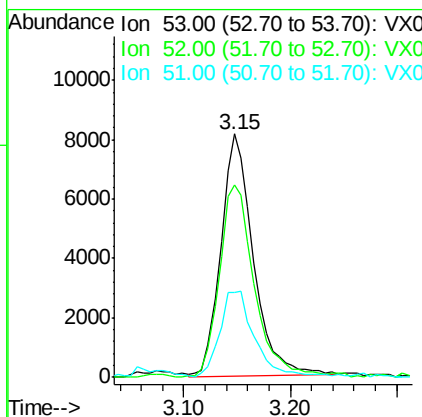
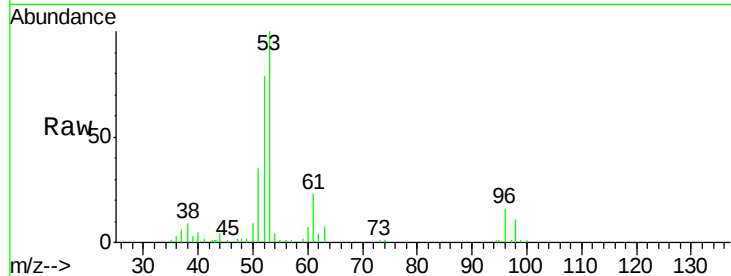
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	53	Resp:	17328
Ion	Ratio	Lower	Upper
53	100		
52	85.8	66.6	100.0
51	39.1	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 10.225 ug/l

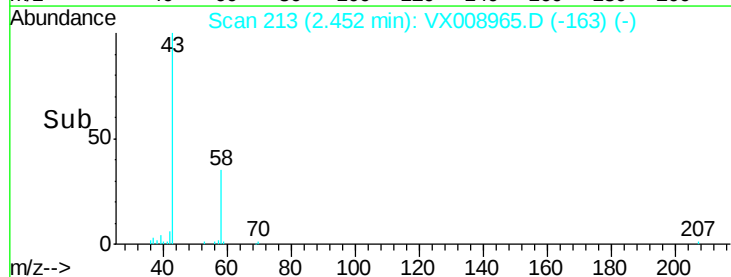
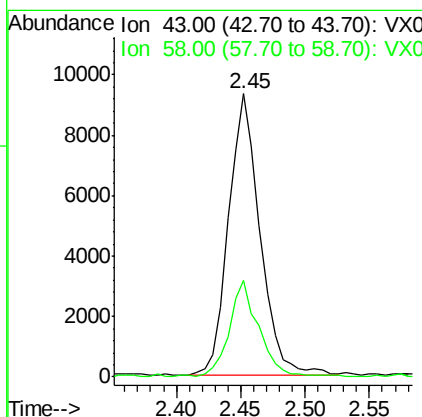
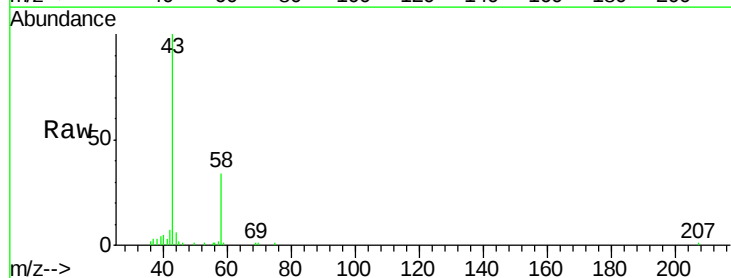
RT: 2.45 min Scan# 213

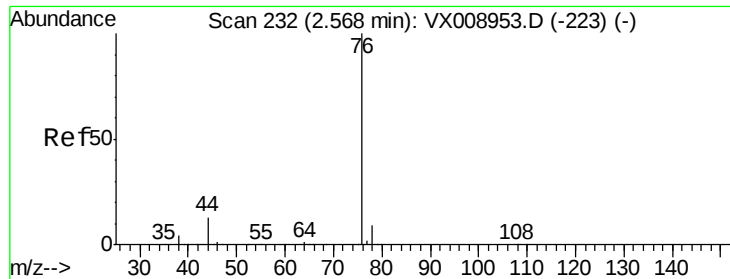
Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	43	Resp:	15902
Ion	Ratio	Lower	Upper
43	100		
58	33.6	24.8	37.2





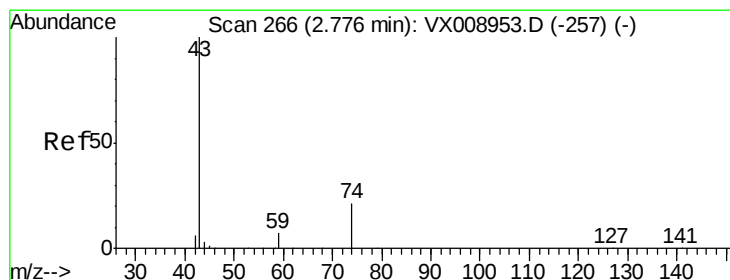
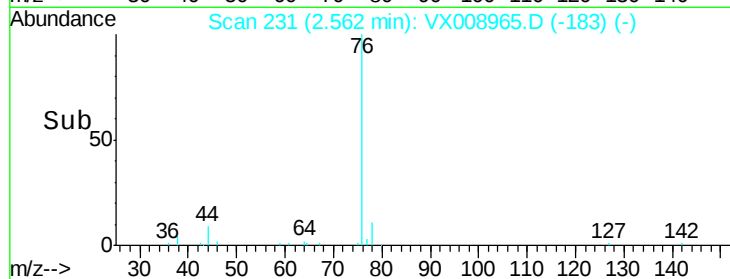
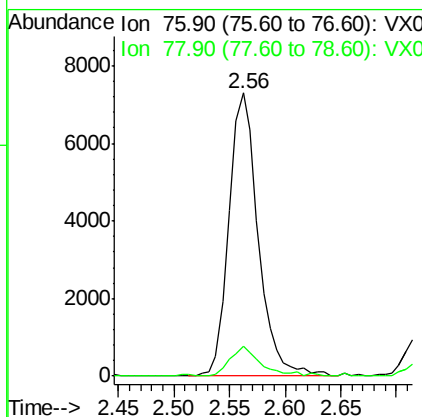
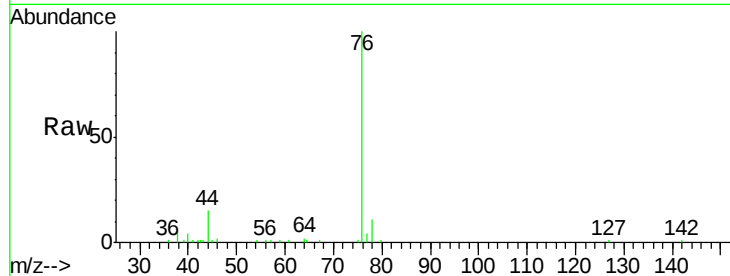
#17
Carbon Disulfide
Concen: 1.880 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	76	Resp	13314
Ion Ratio	Lower	Upper	
76	100		
78	10.6	7.2	10.8

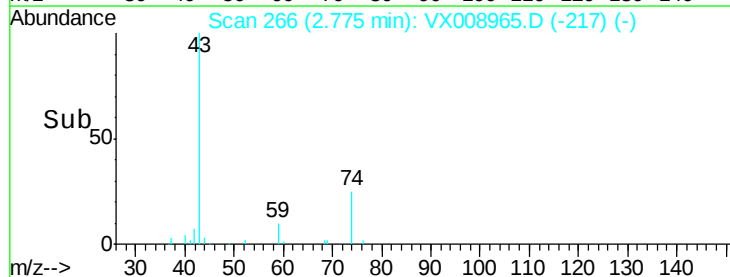
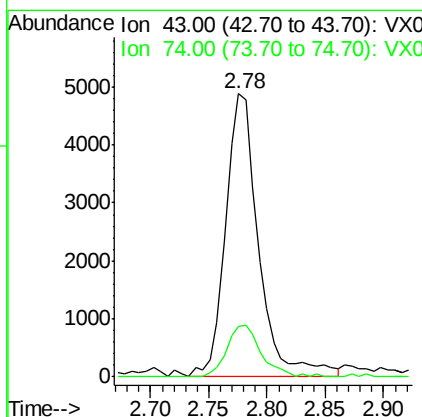
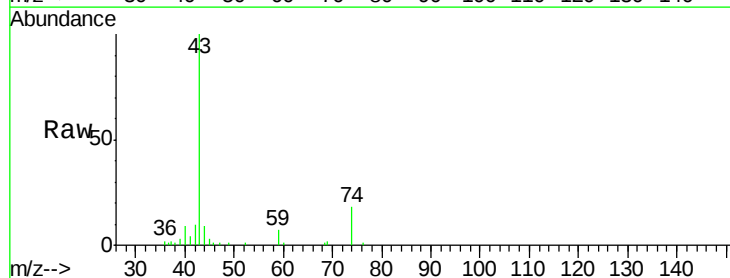
Manual Integrations
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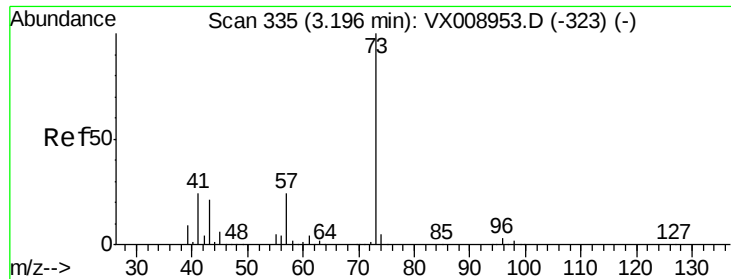
MMDadoda
4/16/2019 10:54:06 AM



#18
Methyl Acetate
Concen: 2.497 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	43	Resp	9690
Ion Ratio	Lower	Upper	
43	100		
74	18.4	16.6	25.0





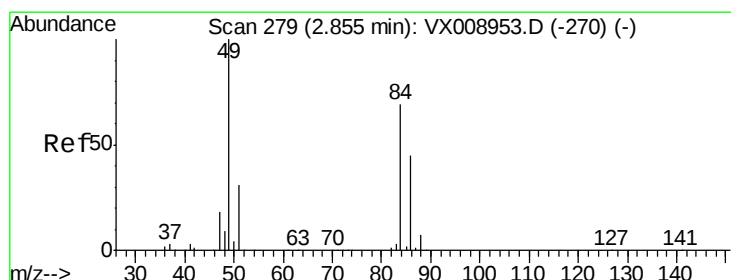
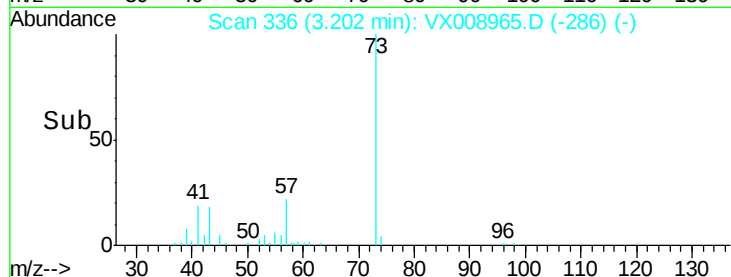
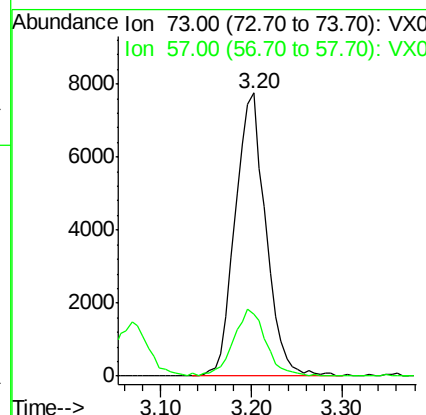
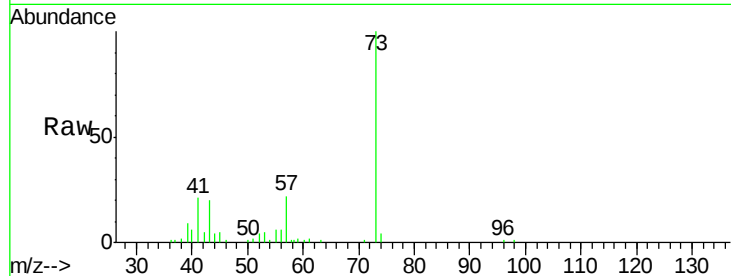
#19
Methvl tert-butvl Ether
Concen: 2.237 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 73 Resp: 18188
Ion Ratio Lower Upper
73 100
57 21.8 19.2 28.8

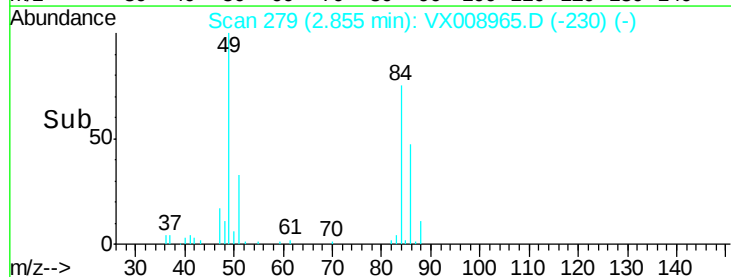
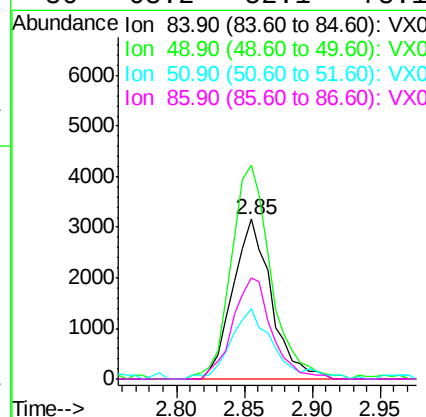
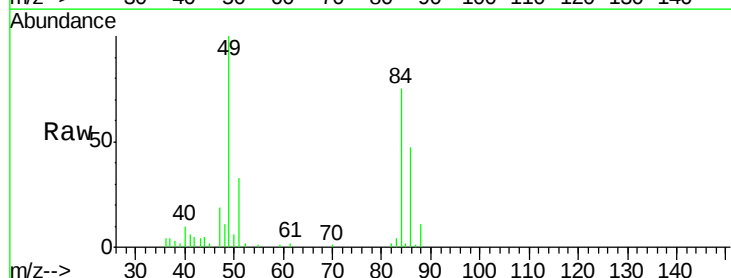
Manual Integrations
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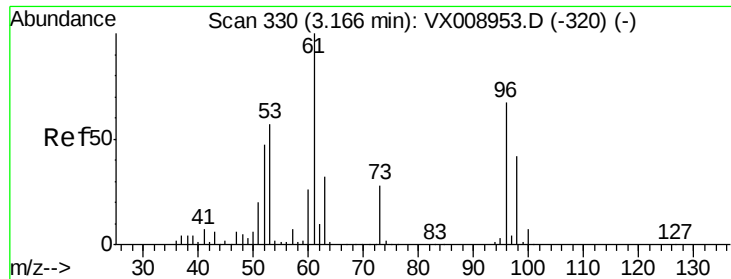
MMDadoda
4/16/2019 10:54:06 AM



#20
Methylene Chloride
Concen: 2.350 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion: 84 Resp: 6249
Ion Ratio Lower Upper
84 100
49 131.6 115.4 173.0
51 41.8 35.8 53.6
86 63.2 52.1 78.1





#21

trans-1,2-Dichloroethene

Concen: 2.111 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

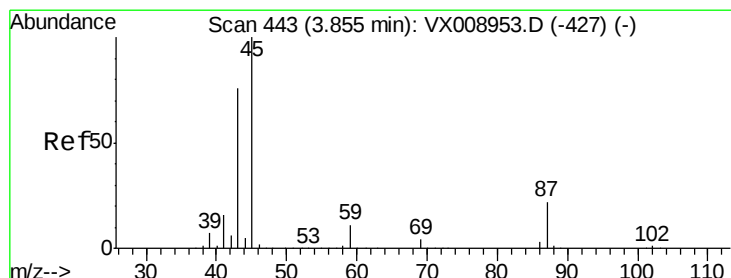
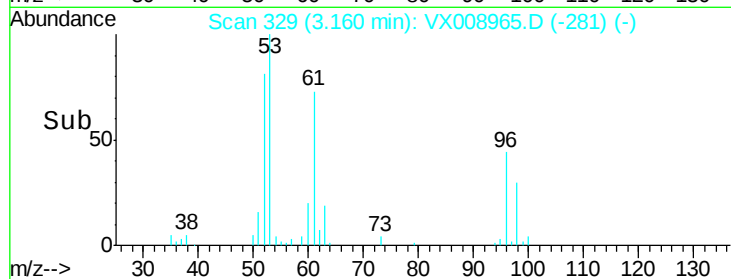
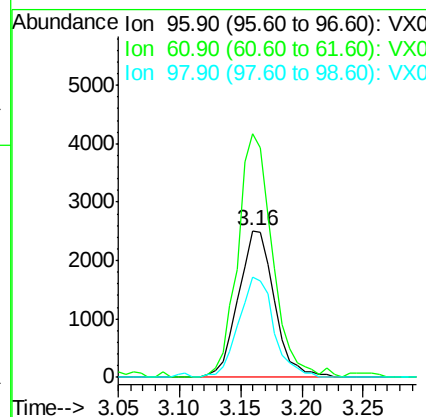
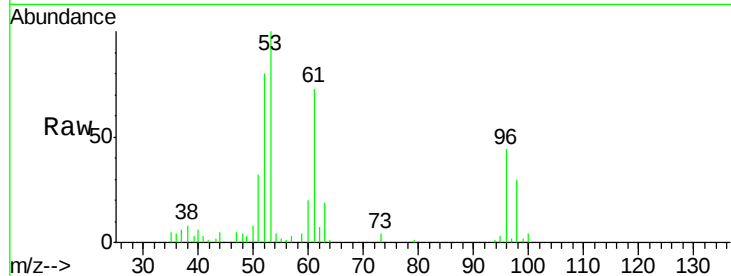
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	96	Resp:	5138
Ion	Ratio	Lower	Upper
96	100		
61	165.7	120.3	180.5
98	68.1	50.2	75.2

Manual Integrations
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4/16/2019 10:54:06 AM



#22

Diisopropyl ether

Concen: 2.215 ug/l

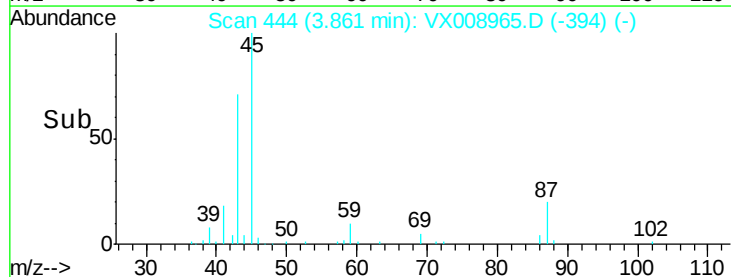
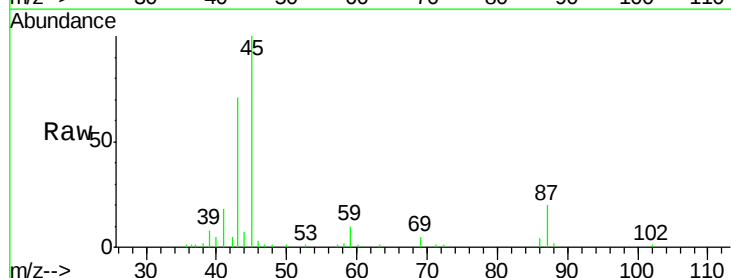
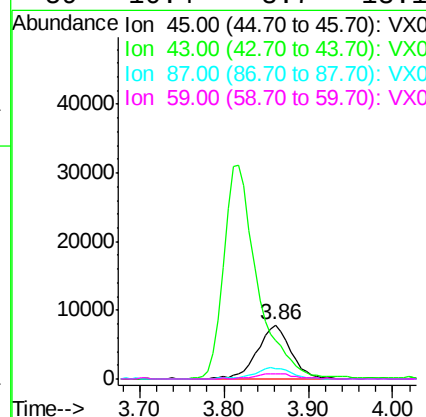
RT: 3.86 min Scan# 444

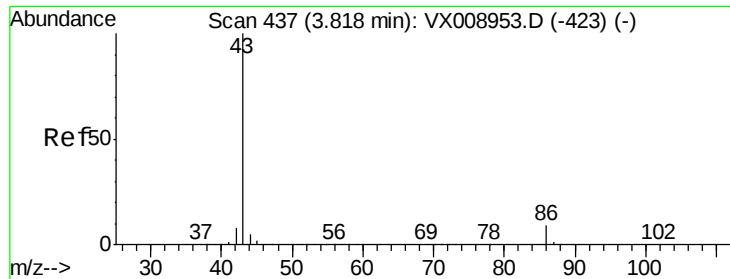
Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	45	Resp:	21425
Ion	Ratio	Lower	Upper
45	100		
43	69.6	60.6	91.0
87	20.0	17.8	26.8
59	10.4	8.7	13.1





#23

Vinyl Acetate

Concen: 10.111 ug/l

RT: 3.82 min Scan# 437

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 43 Resp: 85987

Ion Ratio Lower Upper

43 100

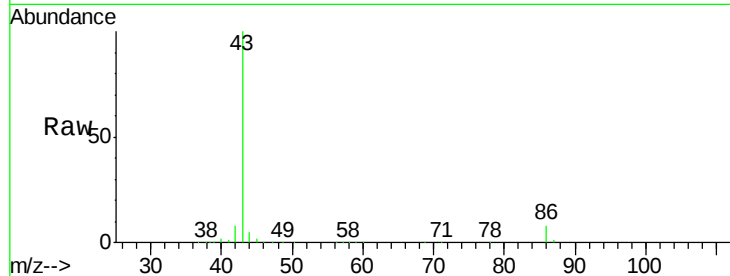
86 8.1 7.1 10.7

Manual Integrations

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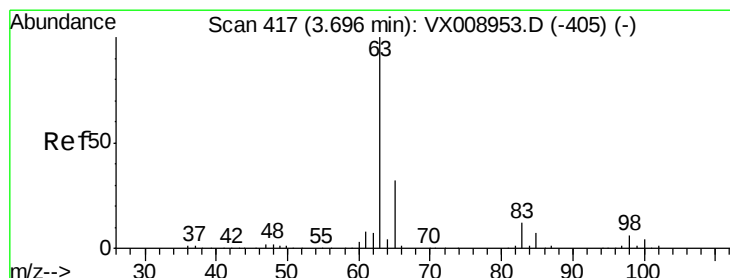
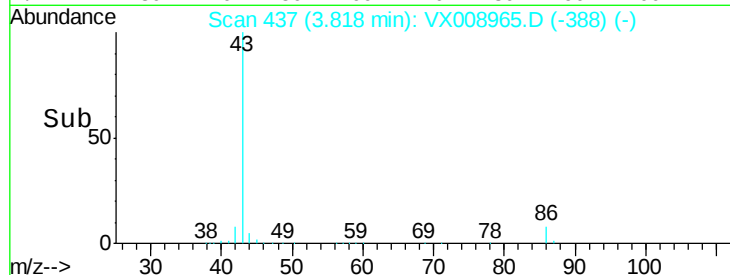
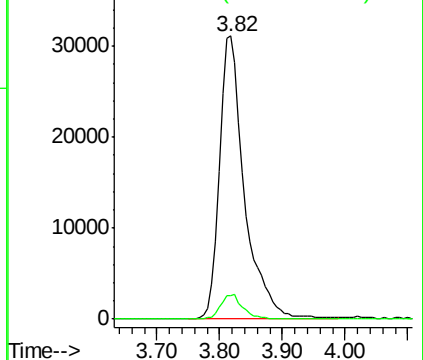
MMDadoda

4/16/2019 10:54:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 2.189 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

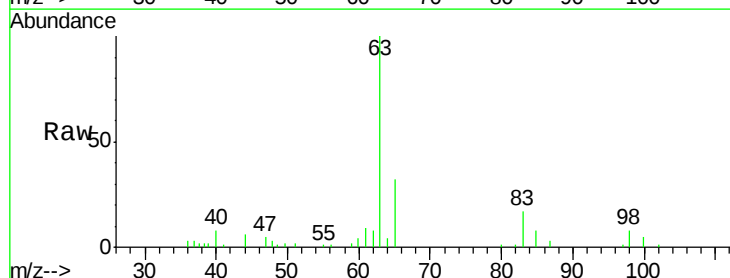
Tgt Ion: 63 Resp: 10631

Ion Ratio Lower Upper

63 100

98 8.4 3.1 9.3

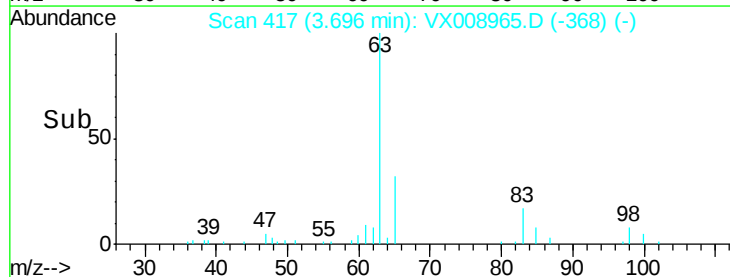
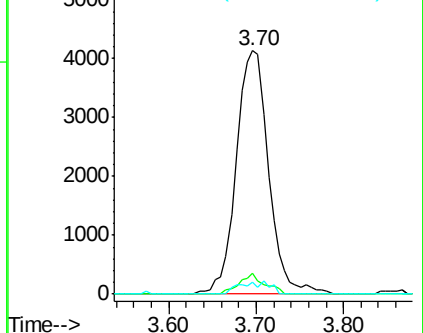
100 5.1 1.9 5.7

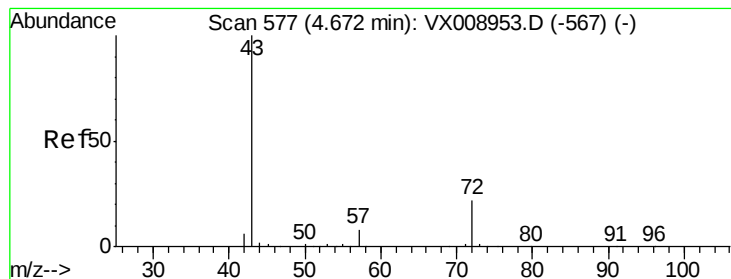


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 10.303 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 43 Resp: 25612

Ion Ratio Lower Upper

43 100

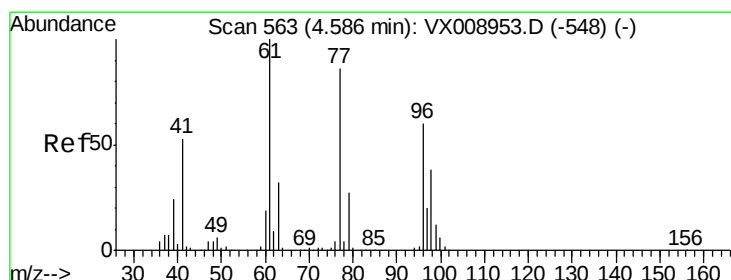
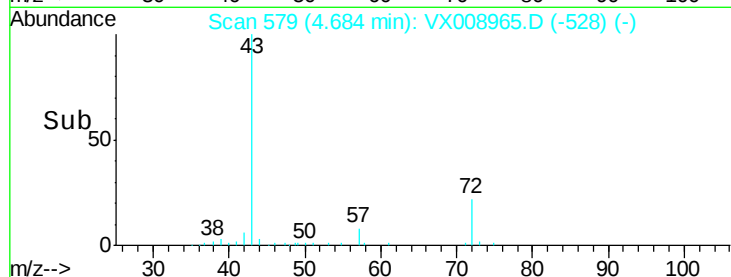
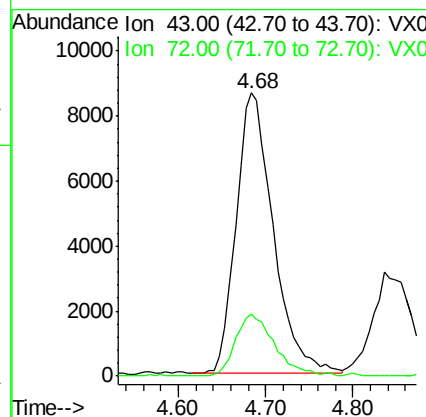
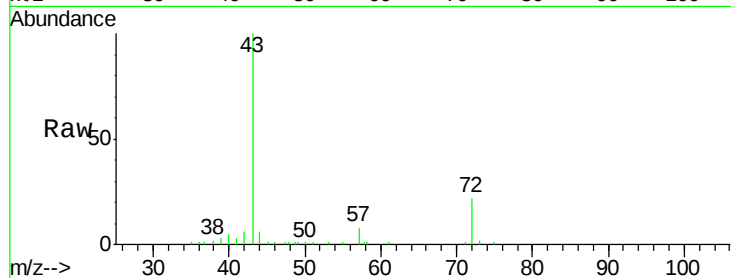
72 22.1 17.5 26.3

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#26

2,2-Dichloropropane

Concen: 2.061 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX008965.D

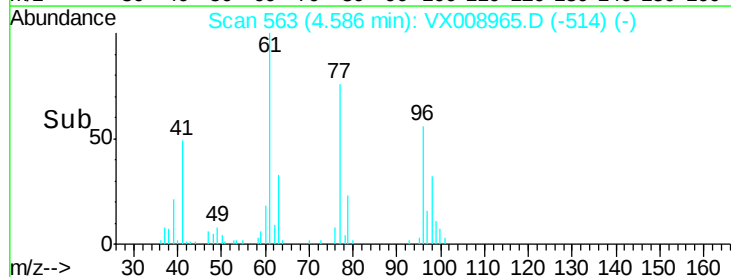
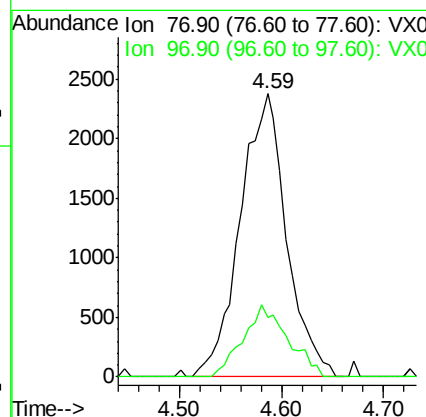
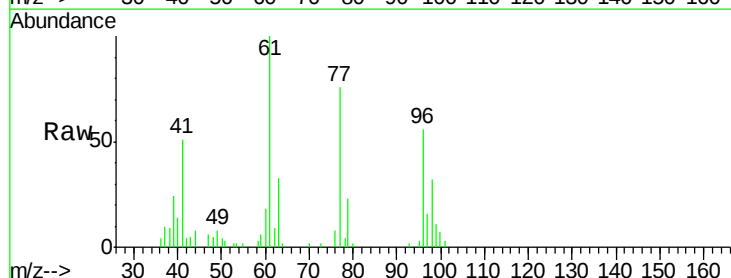
Acq: 15 Apr 2019 17:09

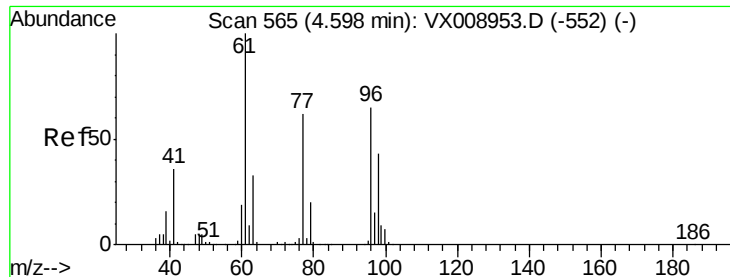
Tgt Ion: 77 Resp: 7504

Ion Ratio Lower Upper

77 100

97 24.4 11.7 35.0





#27

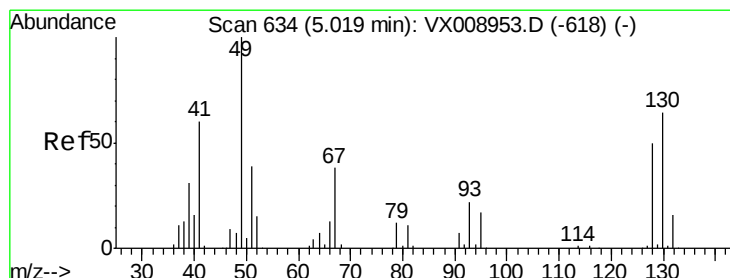
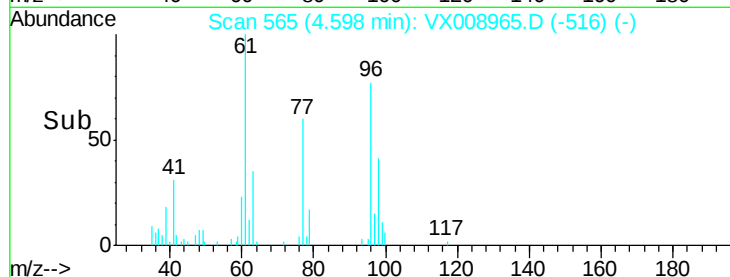
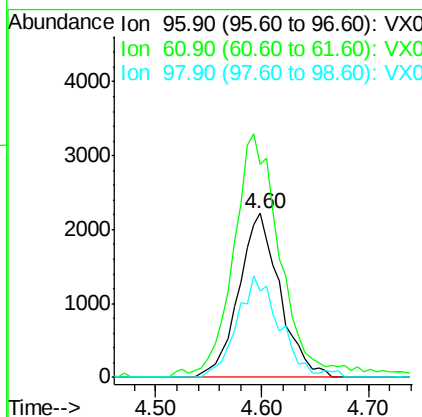
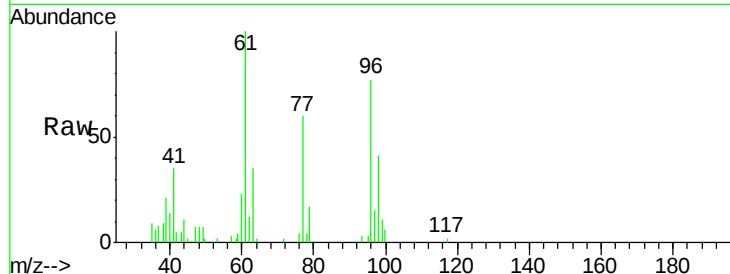
cis-1,2-Dichloroethene
Concen: 2.177 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	172.5	0.0	322.0
98	62.8	0.0	128.4

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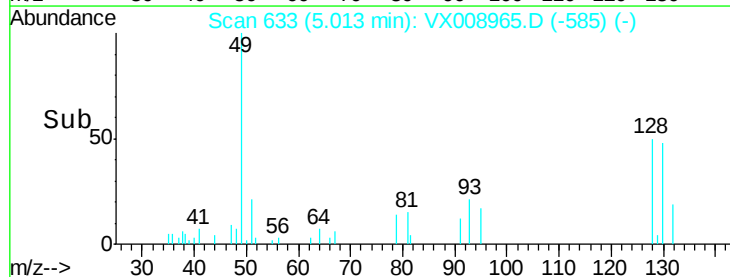
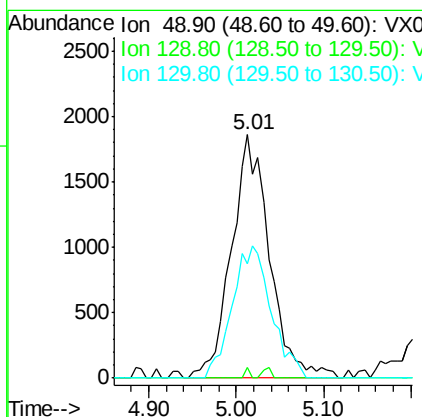
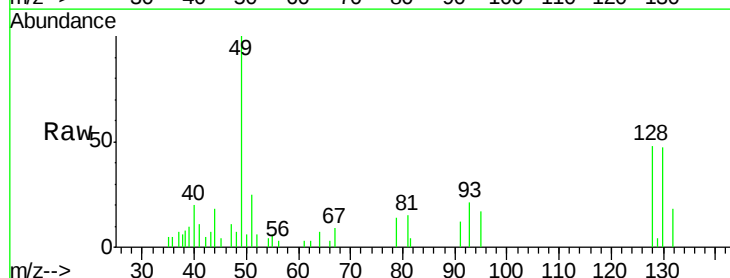
MMDadoda
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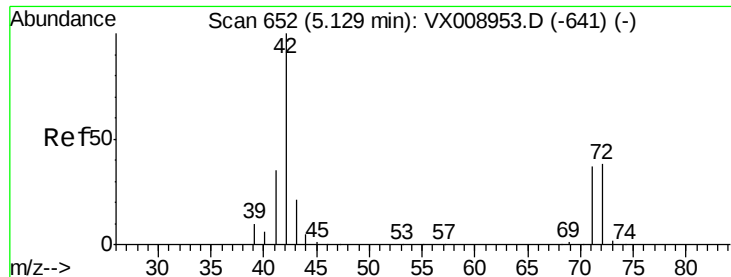


#28

Bromochloromethane
Concen: 2.490 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	3.6
130	55.6	50.4	75.6





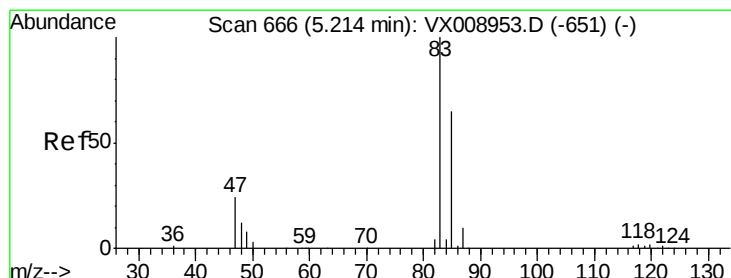
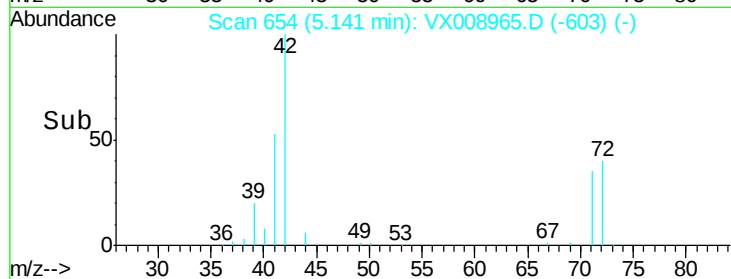
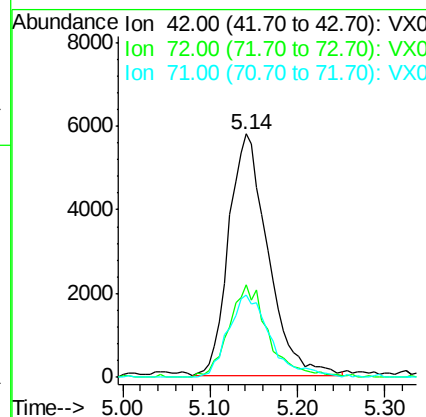
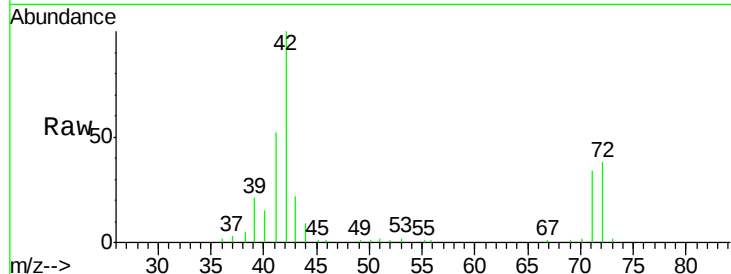
#29
Tetrahydrofuran
Concen: 10.737 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.9	30.6	45.8
71	36.8	28.8	43.2

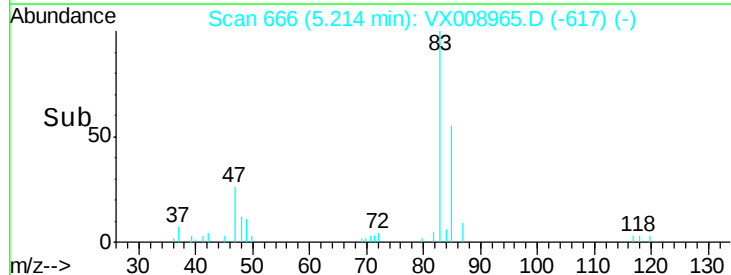
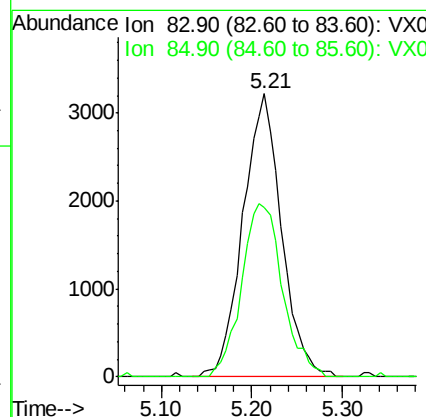
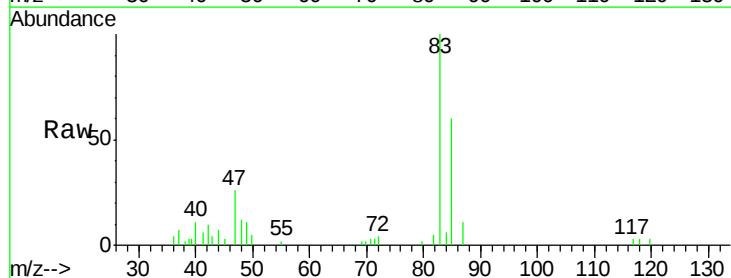
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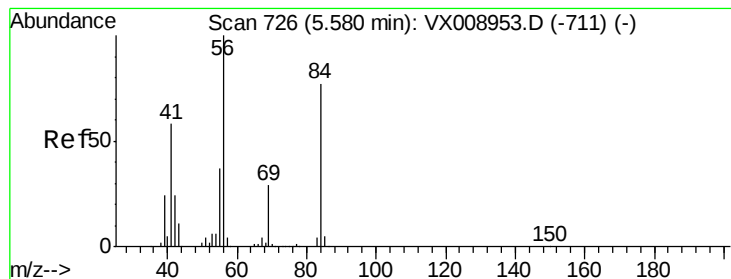
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#30
Chloroform
Concen: 2.182 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.9	77.9





#31

Cyclohexane

Concen: 2.139 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

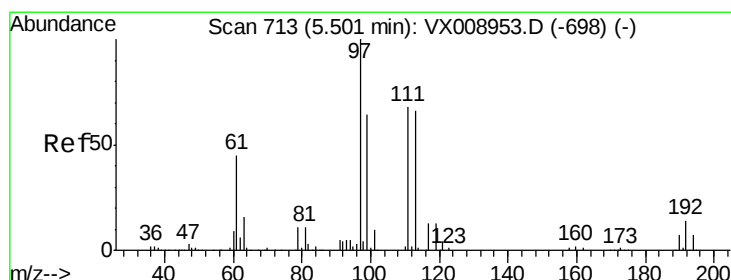
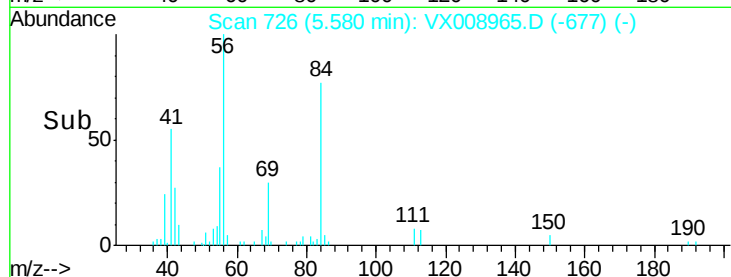
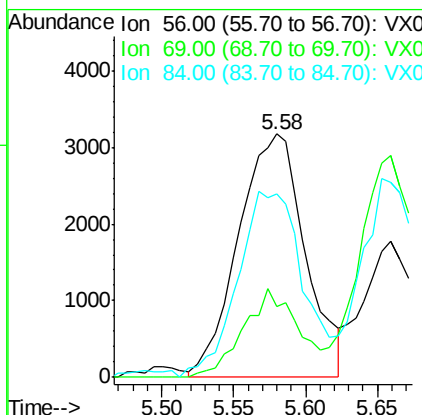
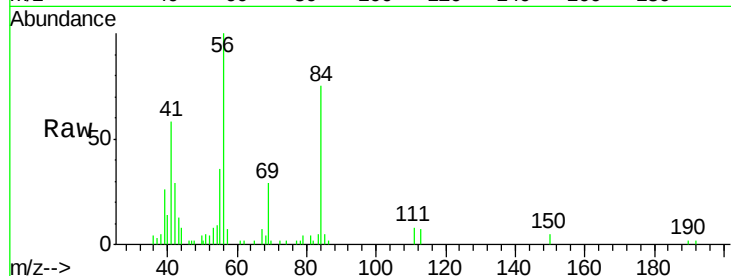
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	56	Resp:	10219
Ion	Ratio	Lower	Upper
56	100		
69	29.9	23.3	34.9
84	73.3	61.7	92.5

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#32

1,1,1-Trichloroethane

Concen: 2.095 ug/l

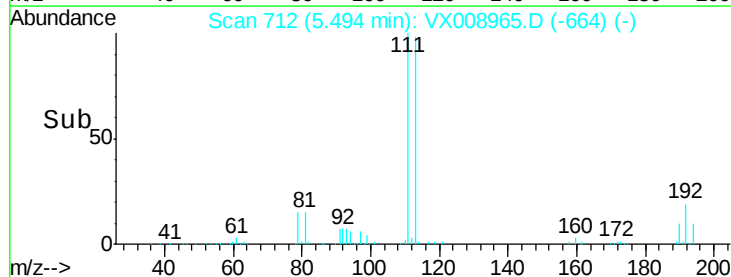
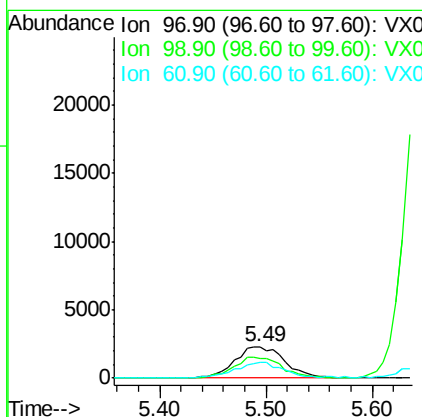
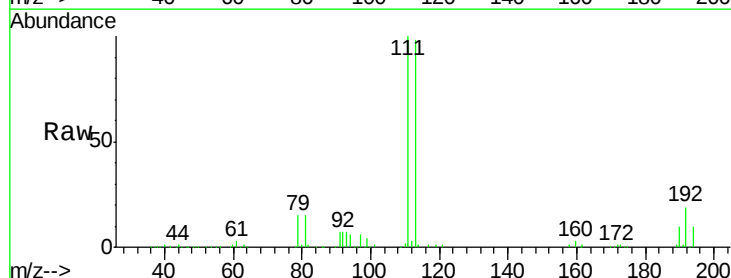
RT: 5.49 min Scan# 712

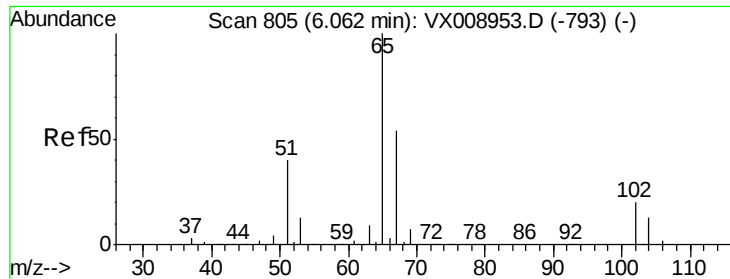
Delta R.T. -0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	97	Resp:	7546
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	49.2	37.9	56.9





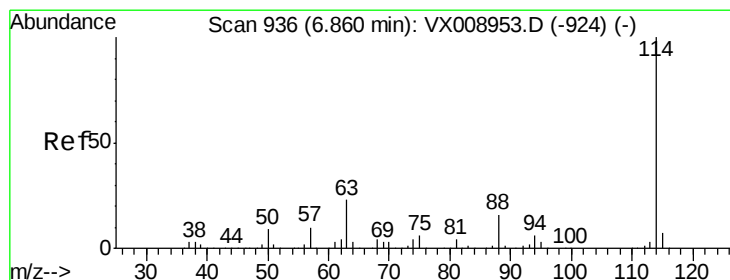
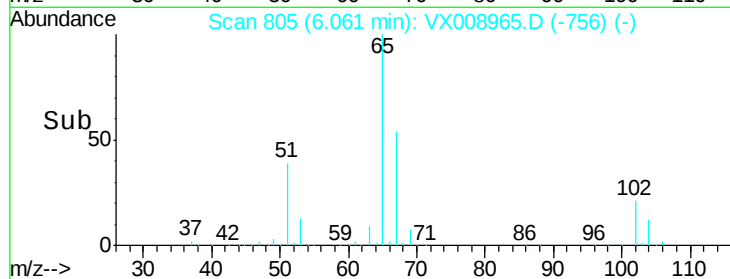
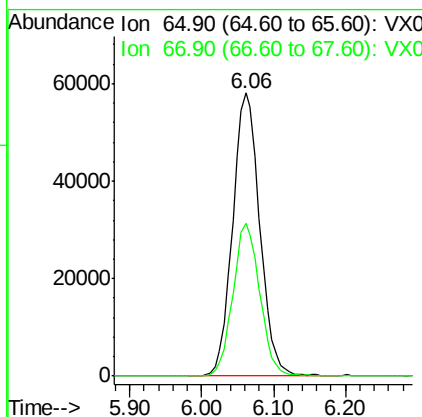
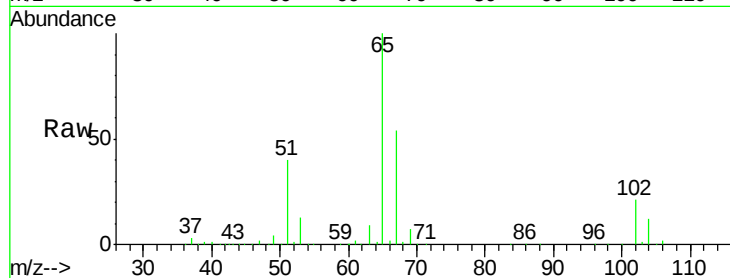
#33
 1,2-Dichloroethane-d4
 Concen: 50.784 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion: 65 Resp: 152300
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.6

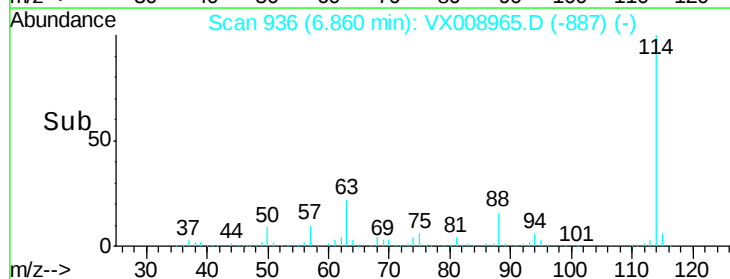
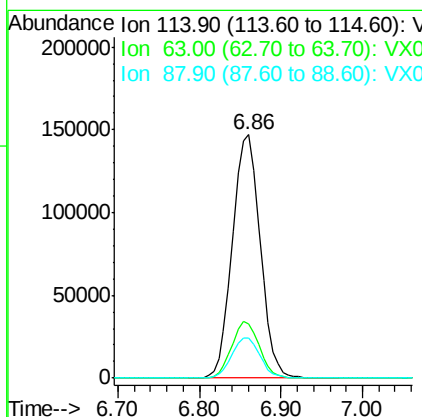
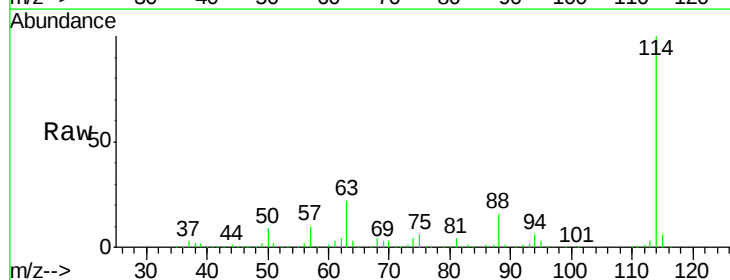
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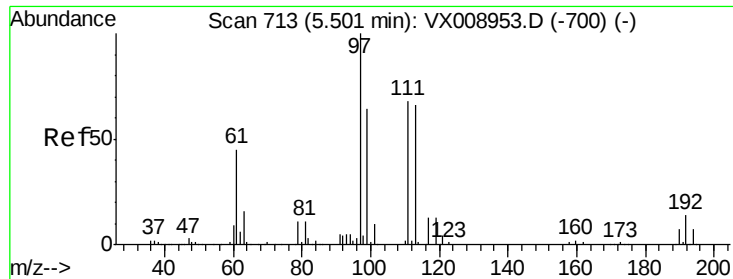
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion: 114 Resp: 345884
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 46.0
 88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.832 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

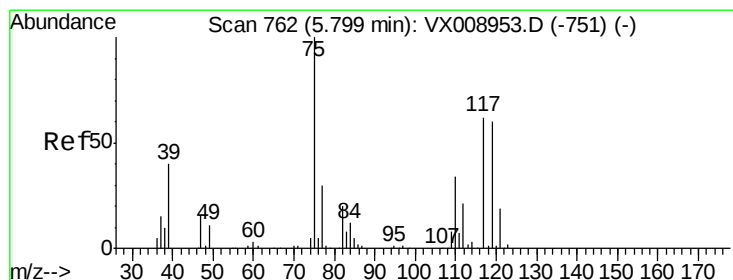
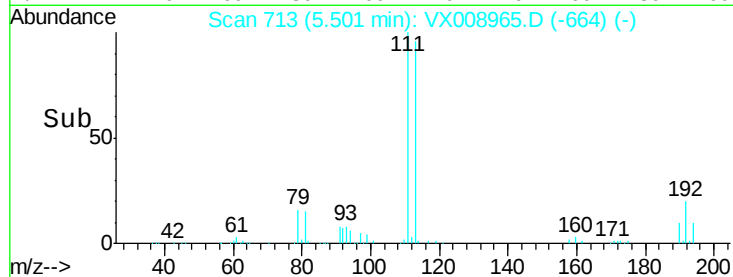
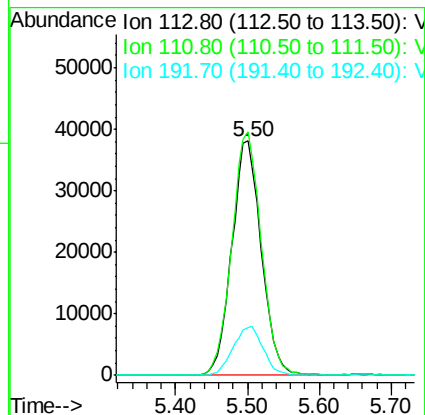
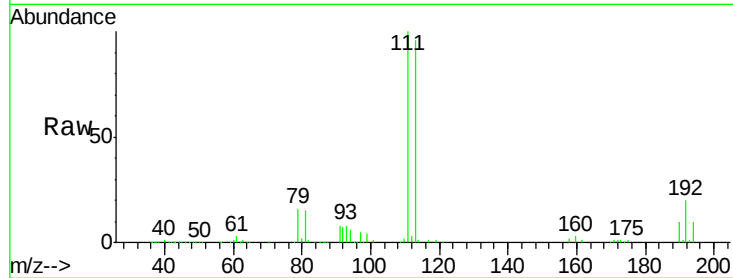
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	113	Resp:	108397
Ion Ratio	Lower	Upper	
113	100		
111	104.0	82.9	124.3
192	21.3	17.4	26.0

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#36

1,1-Dichloropropene

Concen: 2.078 ug/l

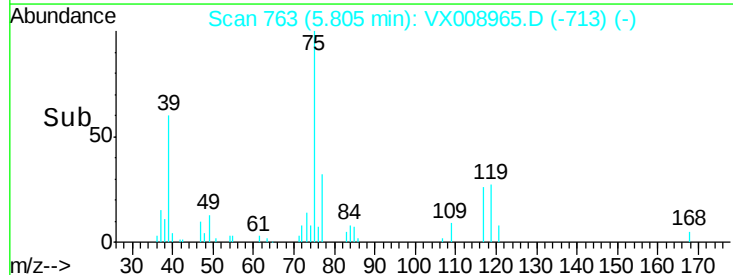
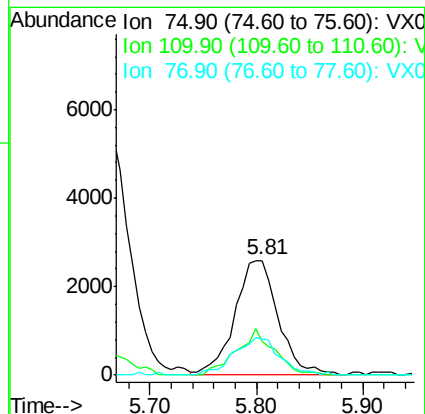
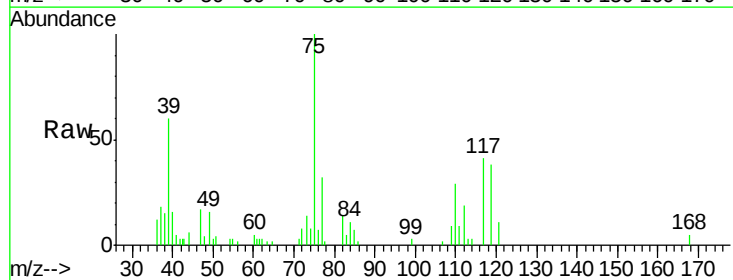
RT: 5.81 min Scan# 763

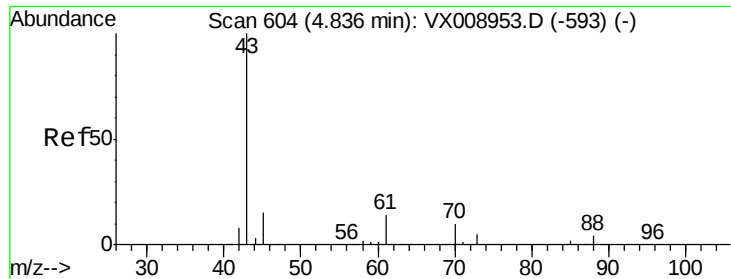
Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	75	Resp:	7432
Ion Ratio	Lower	Upper	
75	100		
110	34.7	16.9	50.7
77	34.2	25.0	37.4





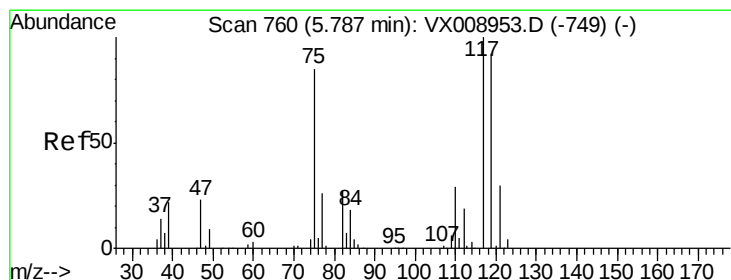
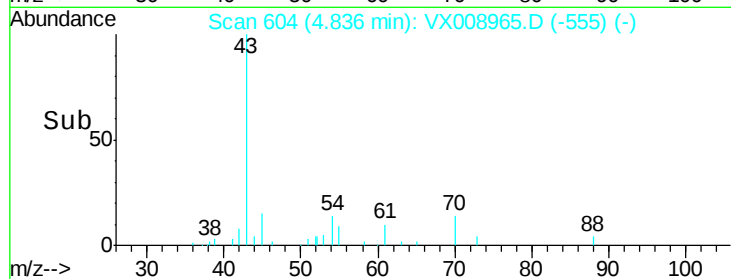
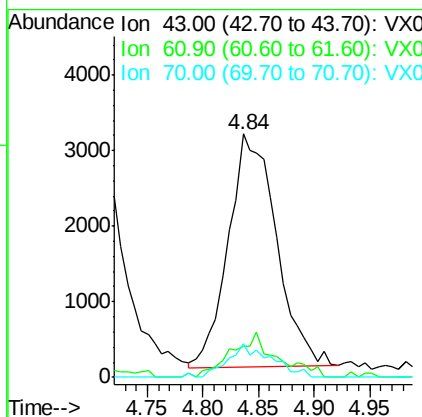
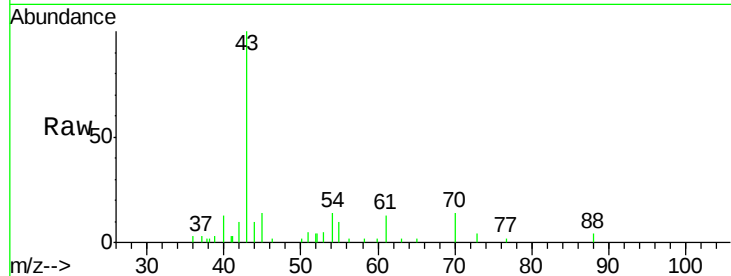
#37
Ethyl Acetate
Concen: 2.012 ug/l
RT: 4.84 min Scan# 604
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	43	61	70
Resp:	9261		
Ion Ratio	100	18.3	12.8
Lower		10.6	7.7
Upper		15.8#	11.5#

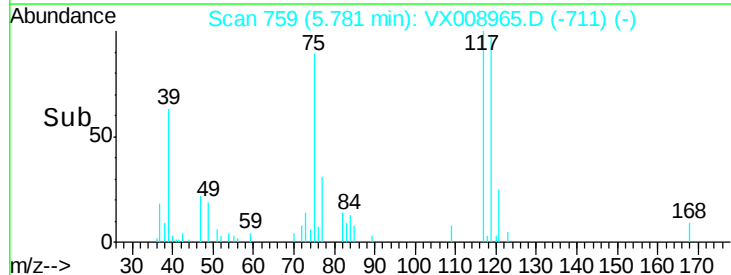
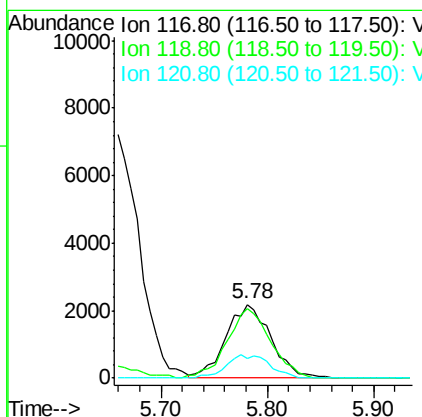
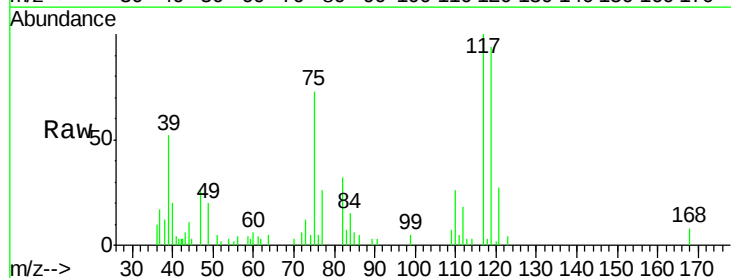
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 2.113 ug/l
RT: 5.78 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	117	119	121
Resp:	6407		
Ion Ratio	100	94.3	27.2
Lower		73.8	23.6
Upper		110.8	35.4





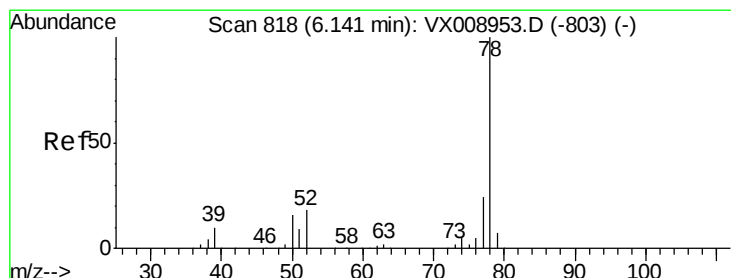
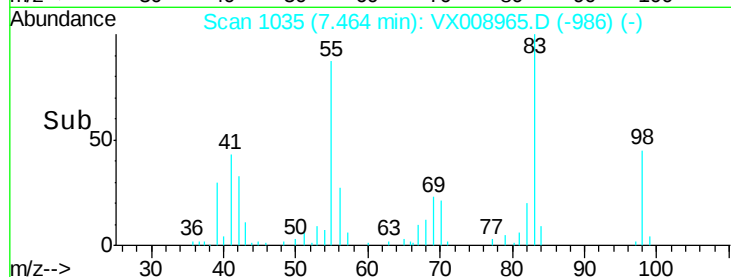
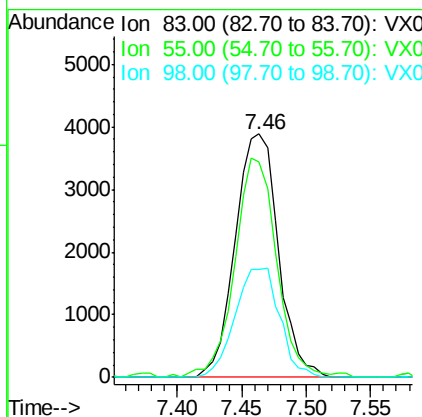
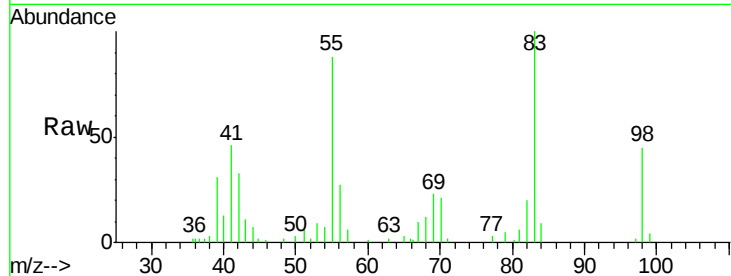
#39
Methvlcvclohexane
Concen: 2.066 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.7	67.1	100.7
98	44.6	35.1	52.7

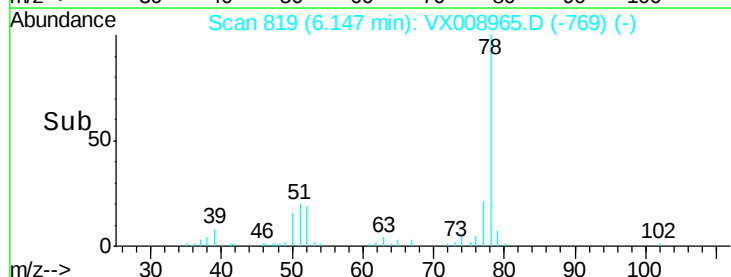
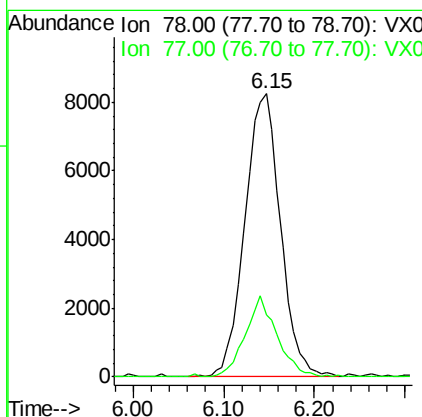
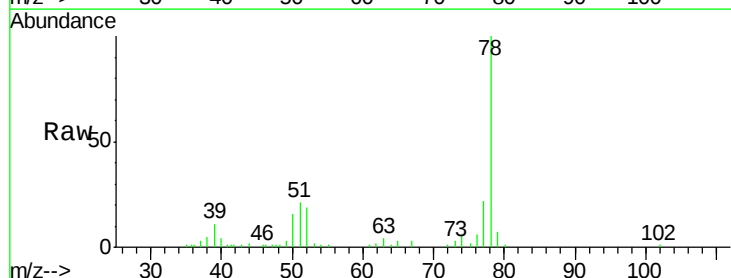
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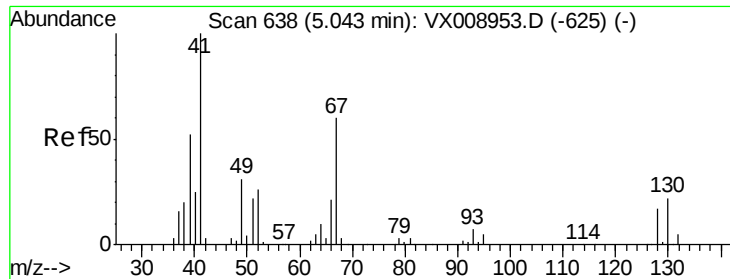
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#40
Benzene
Concen: 2.125 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.8	19.0	28.6





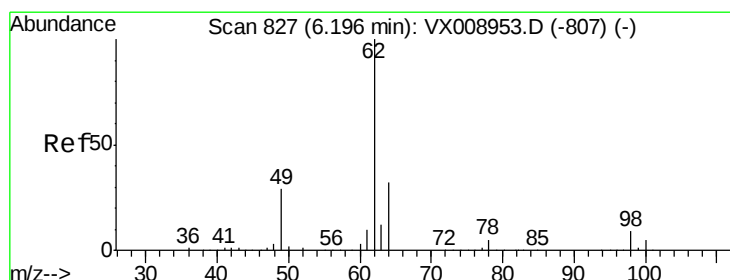
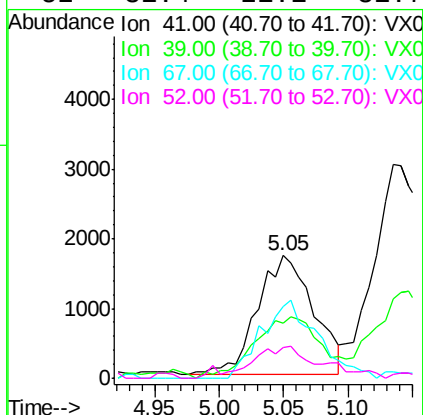
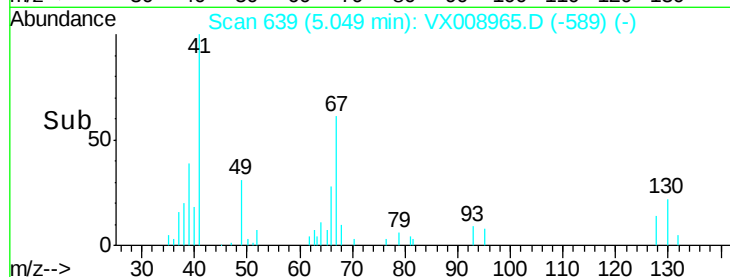
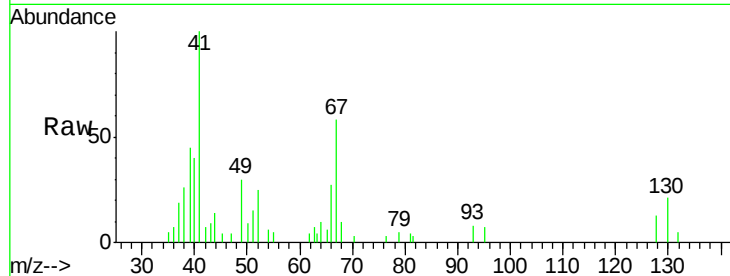
#41
Methacrylonitrile
Concen: 1.941 ug/l
RT: 5.05 min Scan# 639
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion:	41	Resp:	5129
Ion	Ratio	Lower	Upper
41	100		
39	61.9	41.8	62.6
67	65.5	50.2	75.4
52	31.4	21.1	31.7

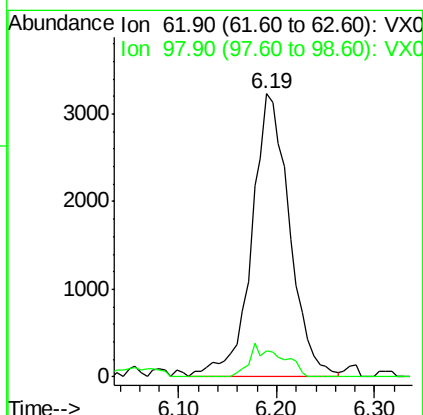
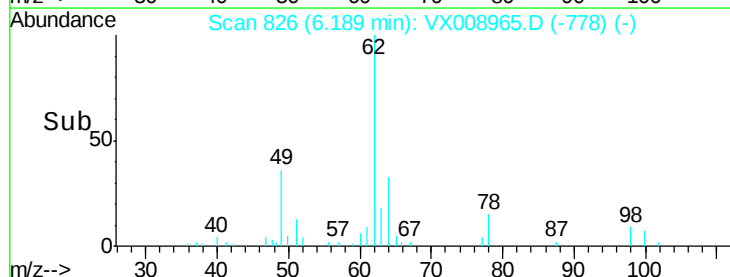
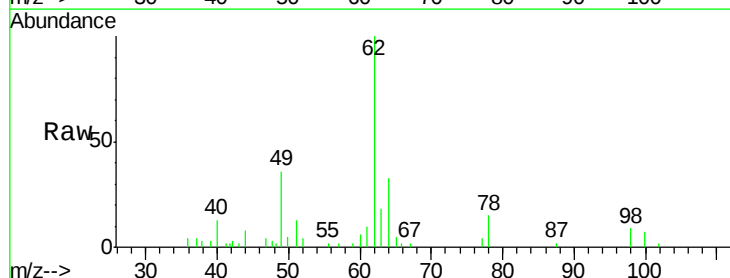
Manual Integrations
APPROVED

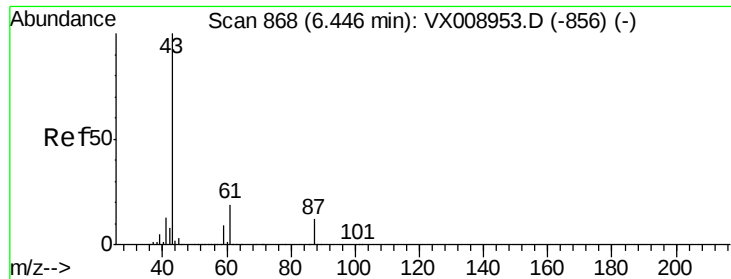
MMDadoda
4/16/2019 10:54:06 AM



#42
1,2-Dichloroethane
Concen: 2.317 ug/l
RT: 6.19 min Scan# 826
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion:	62	Resp:	8660
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	18.4





#43

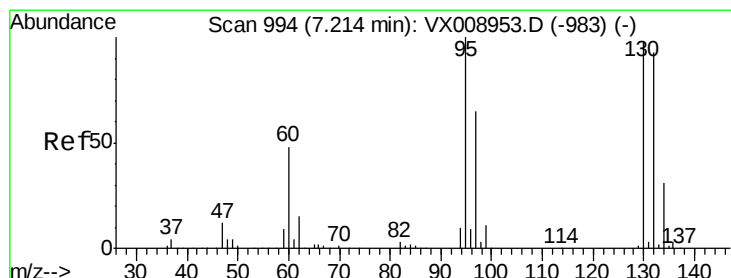
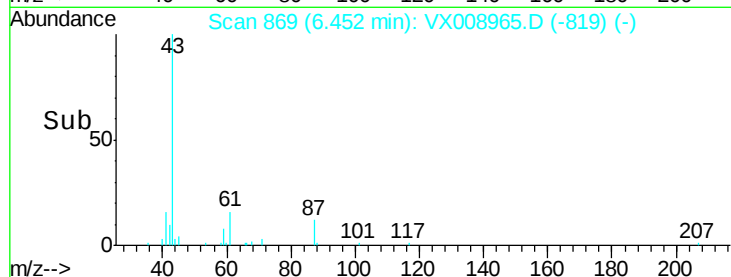
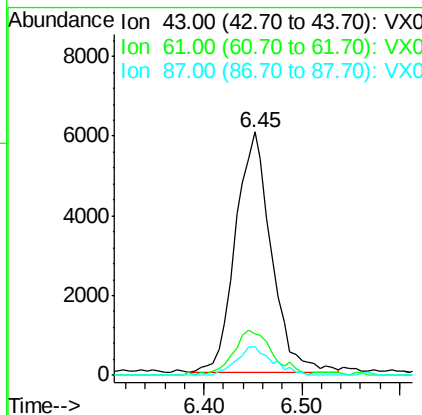
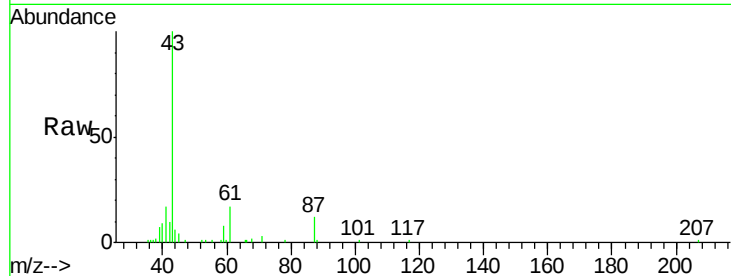
Isopropyl Acetate
 Concen: 2.054 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.4	23.0
87	12.1	9.0	13.4

Manual Integrations
 APPROVED

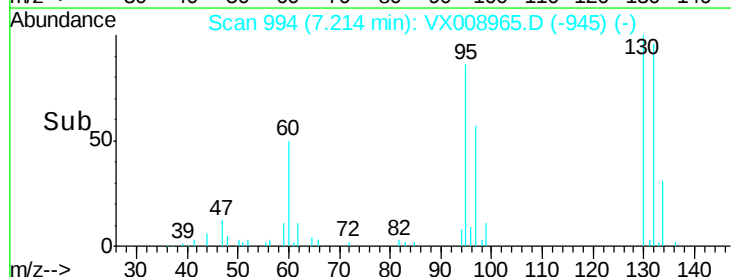
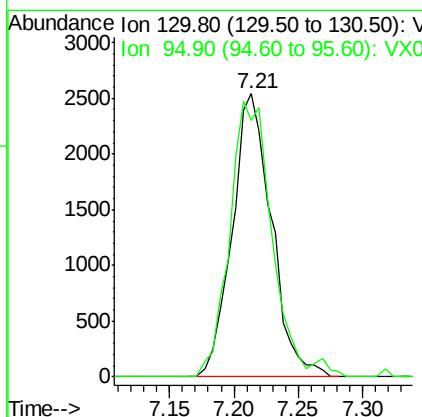
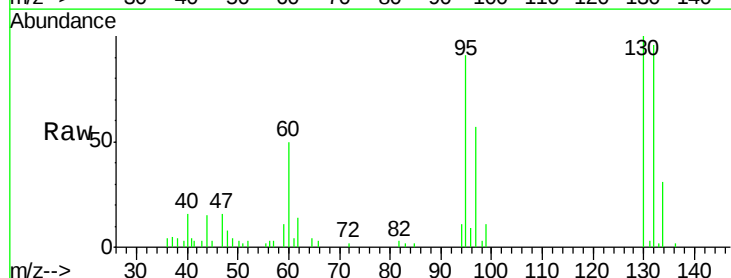
MMDadoda
 4/16/2019 10:54:06 AM

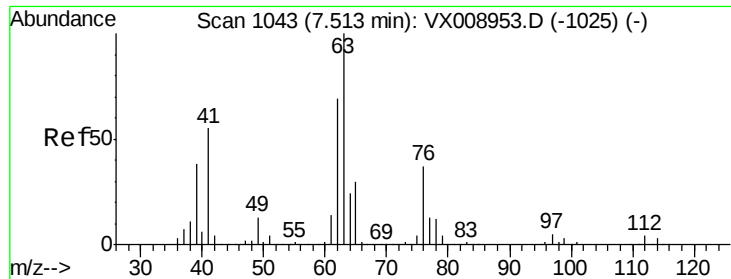


#44

Trichloroethene
 Concen: 2.081 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	203.2





#45

1,2-Dichloropropane

Concen: 2.170 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 63 Resp: 6354

Ion Ratio Lower Upper

63 100

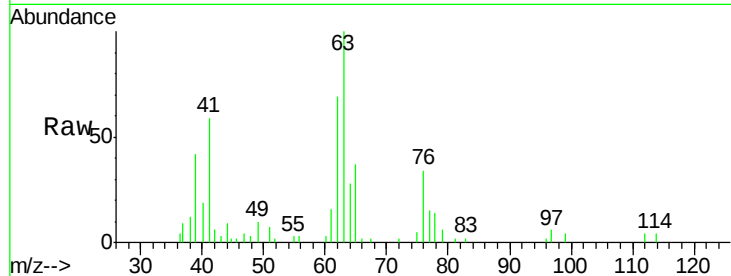
65 36.7 24.1 36.1#

Manual Integrations

APPROVED

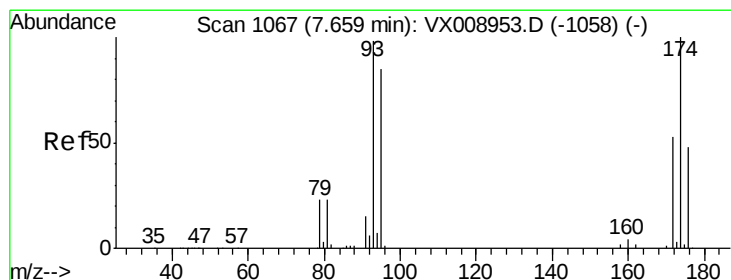
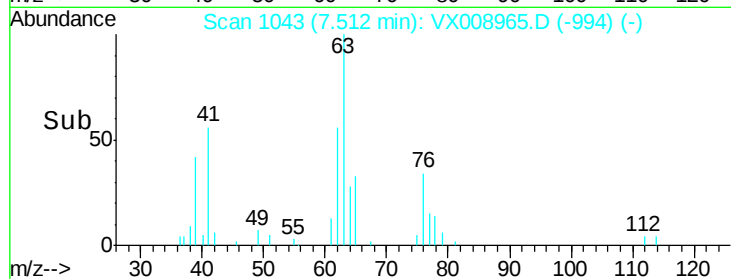
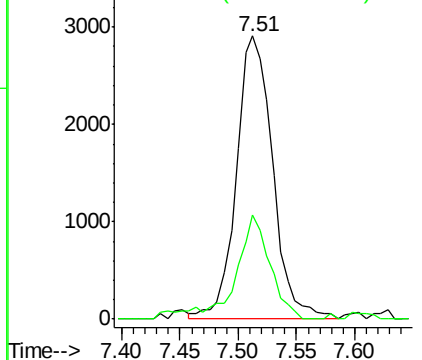
MMDadoda

4/16/2019 10:54:06 AM



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 2.133 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

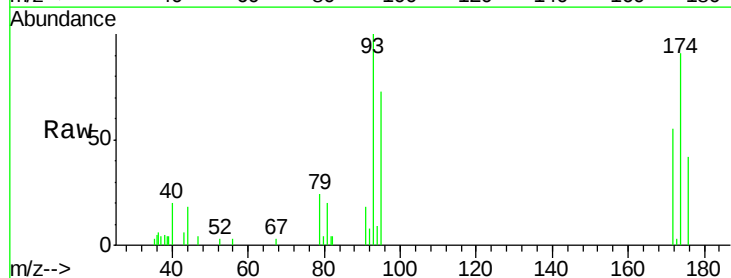
Tgt Ion: 93 Resp: 3634

Ion Ratio Lower Upper

93 100

95 80.4 67.0 100.4

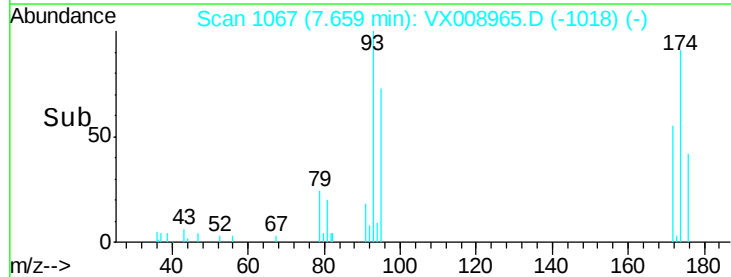
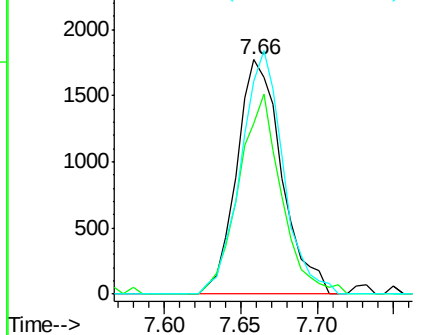
174 97.8 81.6 122.4

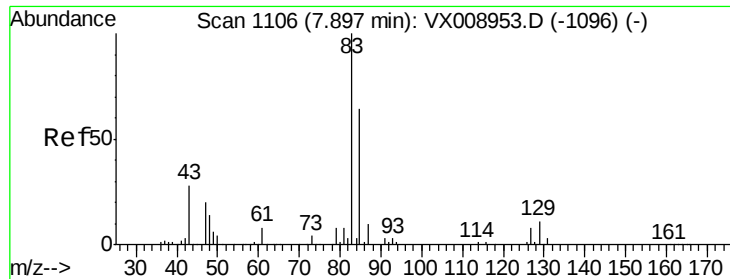


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





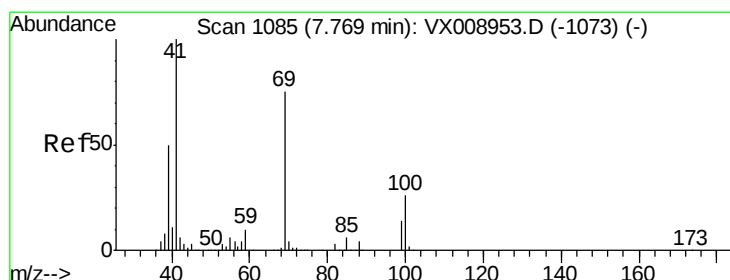
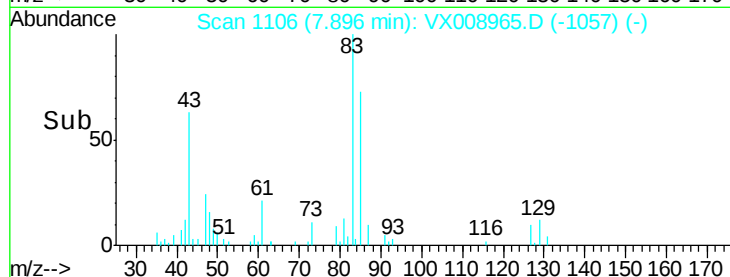
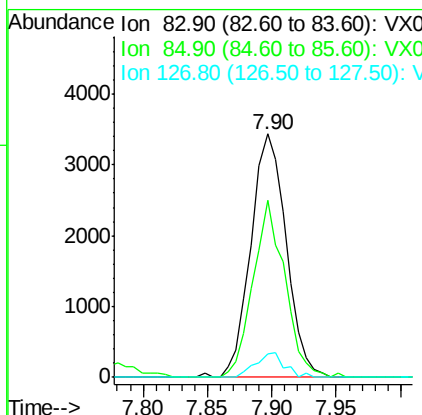
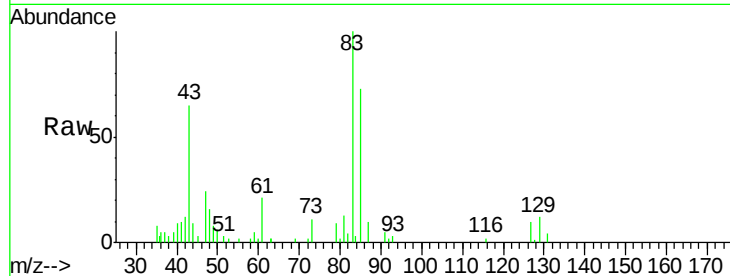
#47
Bromodichloromethane
Concen: 1.954 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	83	Resp	6530
Ion Ratio	Lower	Upper	
83	100		
85	72.5	50.8	76.2
127	9.9	6.4	9.6#

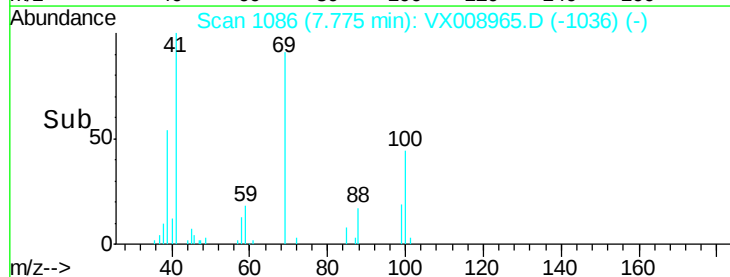
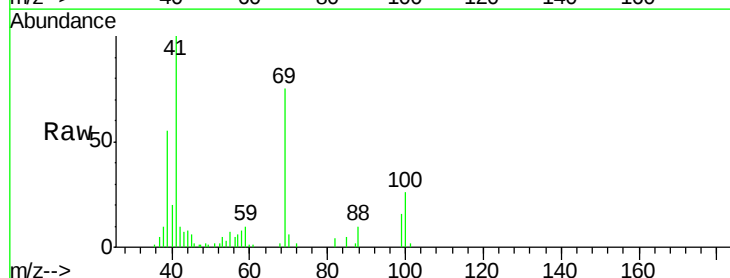
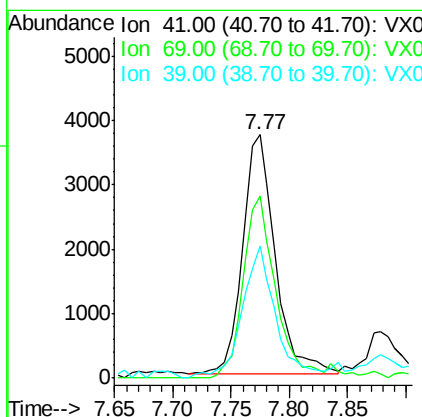
Manual Integrations
APPROVED

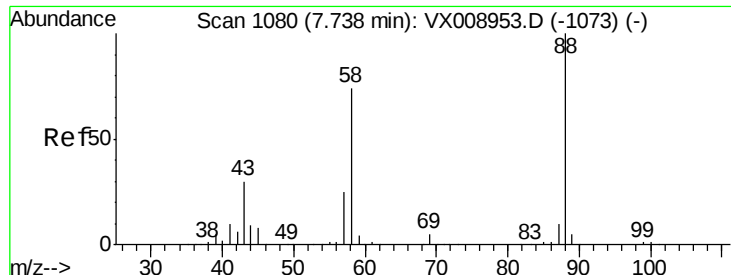
MMDadoda
4/16/2019 10:54:06 AM



#48
Methyl methacrylate
Concen: 1.972 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	41	Resp	7229
Ion Ratio	Lower	Upper	
41	100		
69	75.6	59.4	89.2
39	56.7	39.8	59.6





#49

1,4-Dioxane

Concen: 42.565 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

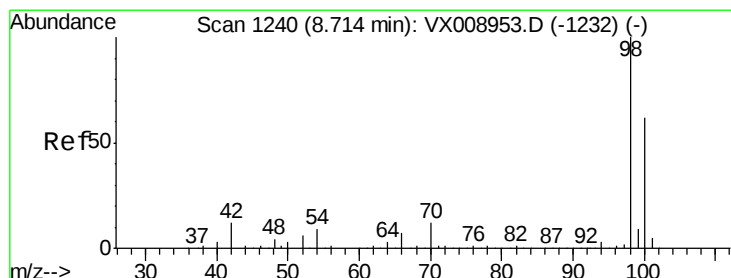
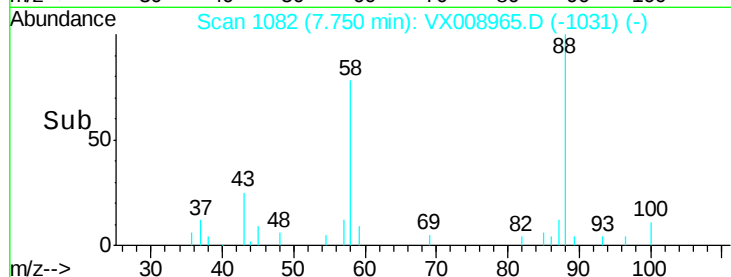
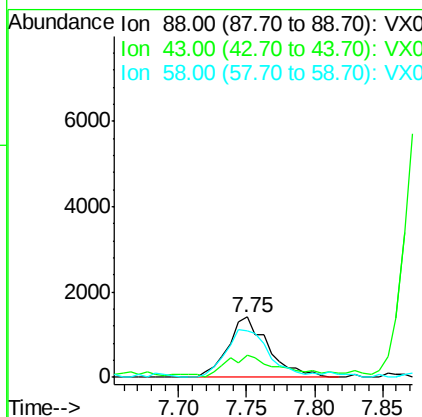
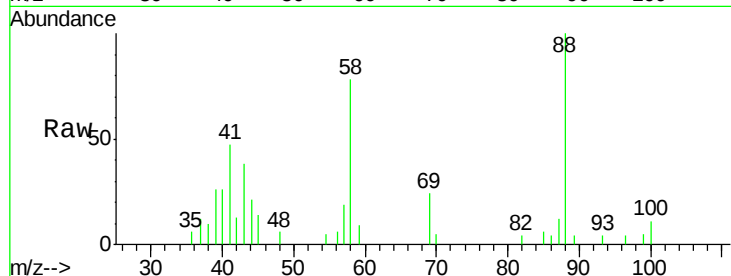
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	88	Resp:	2920
Ion	Ratio	Lower	Upper
88	100		
43	50.4	29.3	43.9#
58	85.8	62.6	93.8

Manual Integrations
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MMDadoda
4/16/2019 10:54:06 AM



#50

Toluene-d8

Concen: 50.389 ug/l

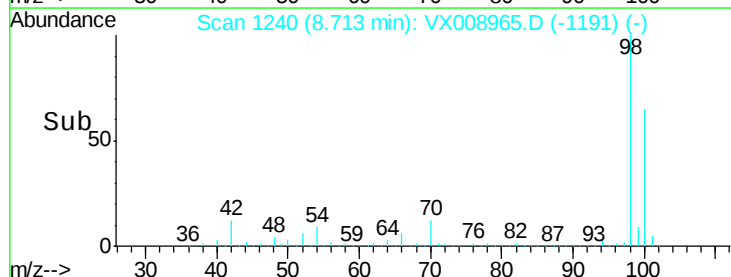
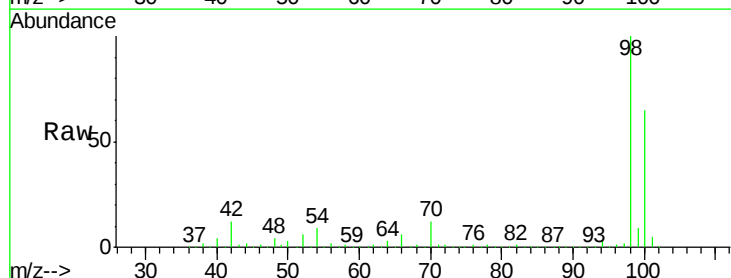
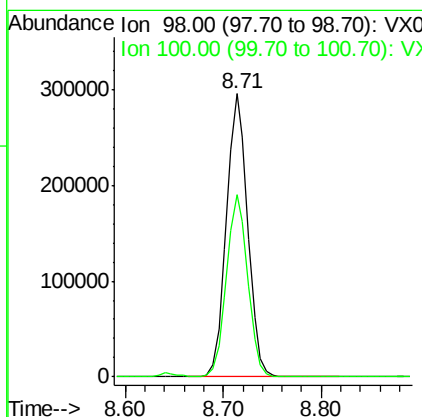
RT: 8.71 min Scan# 1240

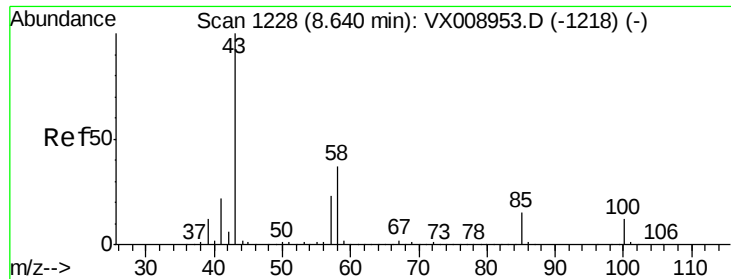
Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	98	Resp:	446081
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.2





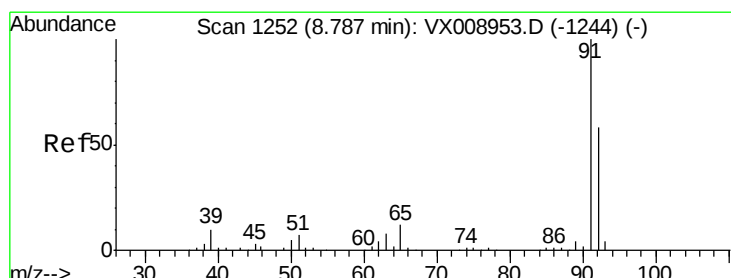
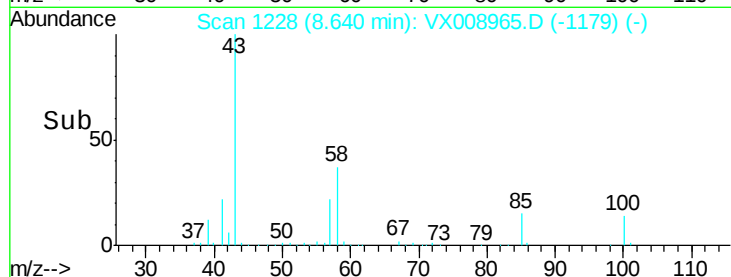
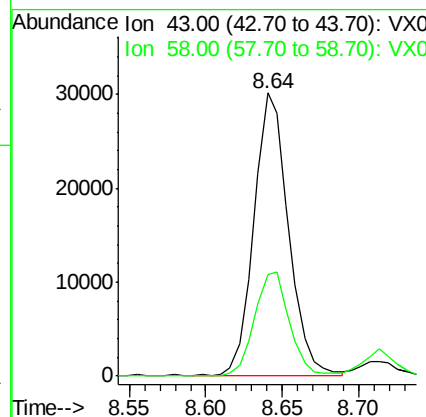
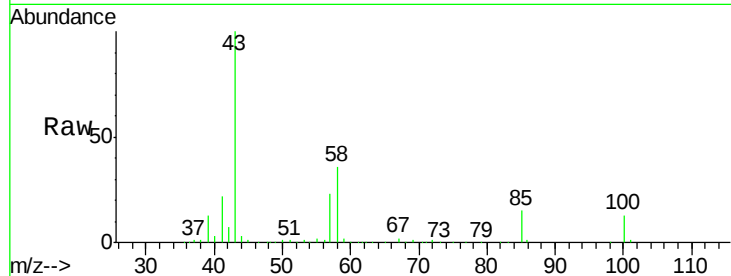
#51
4-Methyl-2-Pentanone
Concen: 9.982 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 43 Resp: 47173
Ion Ratio Lower Upper
43 100
58 37.5 29.8 44.6

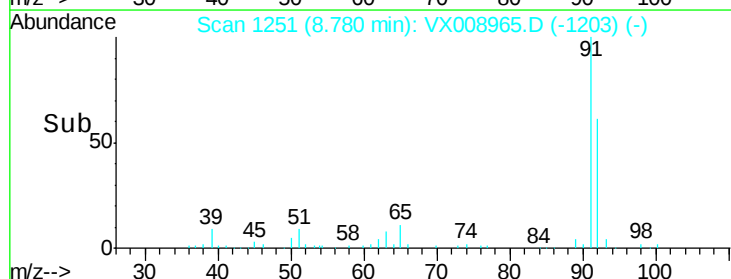
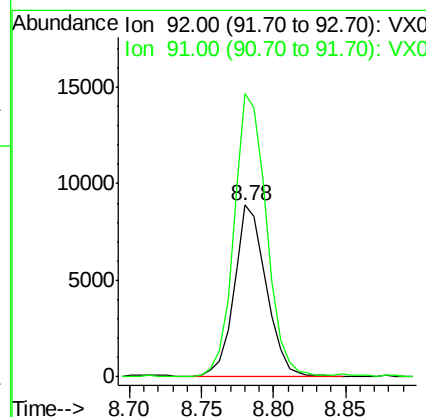
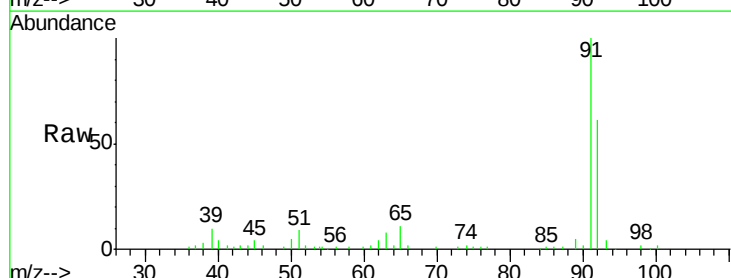
Manual Integrations
APPROVED

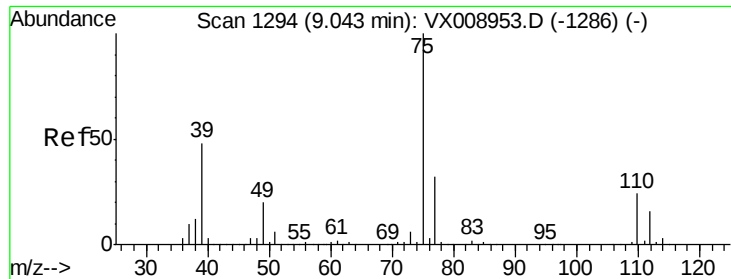
MMDadoda
4/16/2019 10:54:06 AM



#52
Toluene
Concen: 2.188 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion: 92 Resp: 13838
Ion Ratio Lower Upper
92 100
91 166.8 138.5 207.7





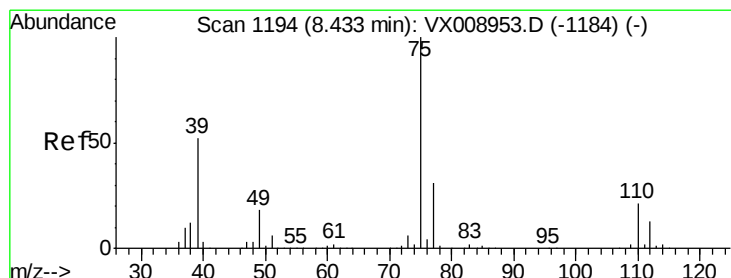
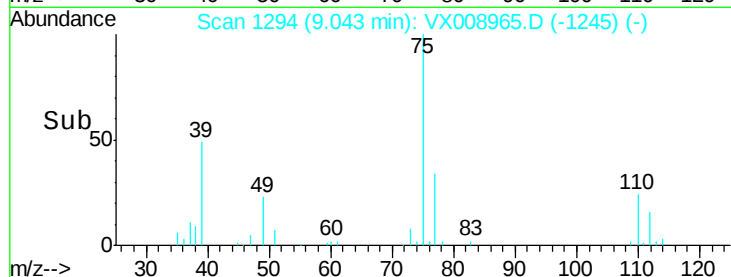
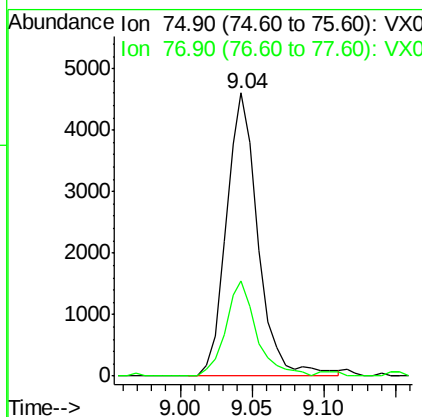
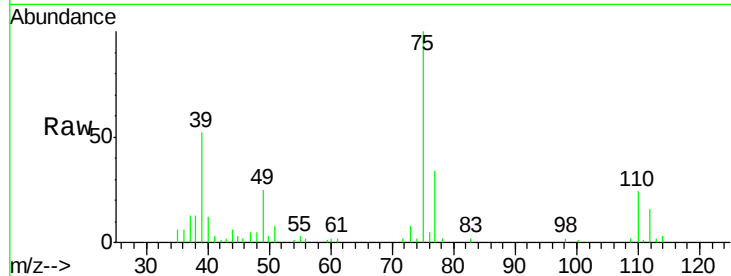
#53
t-1,3-Dichloropropene
Concen: 1.849 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 75 Resp: 7112
Ion Ratio Lower Upper
75 100
77 33.6 25.4 38.2

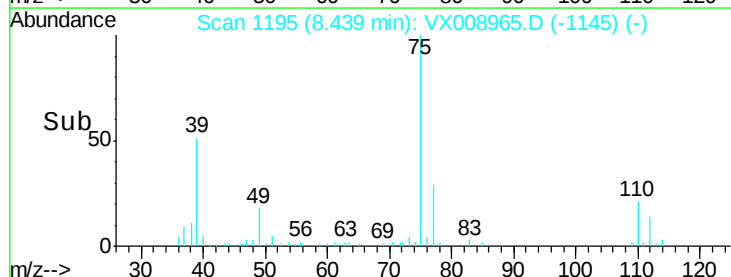
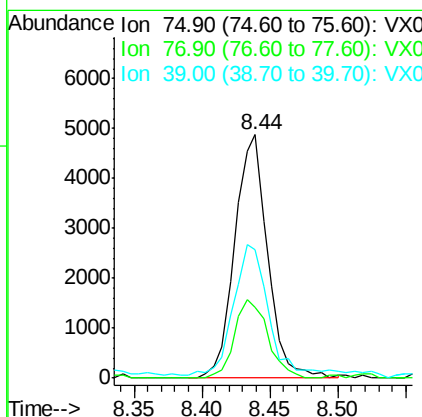
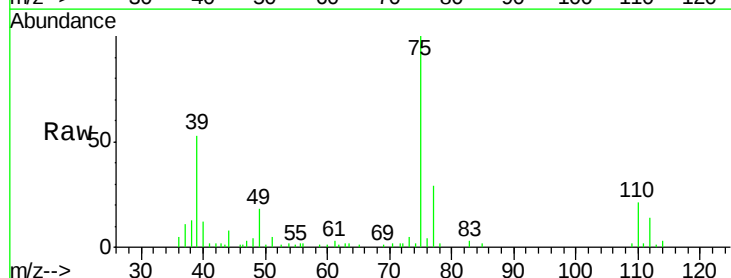
Manual Integrations
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MMDadoda
4/16/2019 10:54:06 AM



#54
cis-1,3-Dichloropropene
Concen: 1.902 ug/l
RT: 8.44 min Scan# 1195
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion: 75 Resp: 8190
Ion Ratio Lower Upper
75 100
77 29.3 24.8 37.2
39 51.3 41.8 62.6





#55

1,1,2-Trichloroethane

Concen: 2.013 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

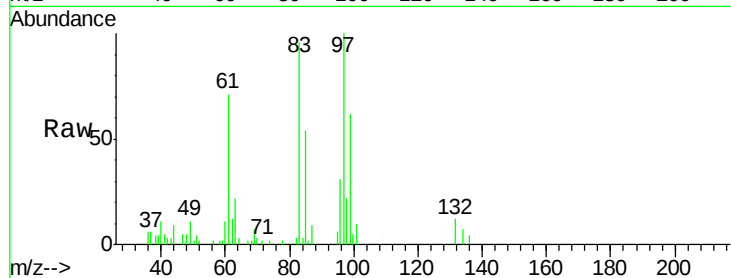
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	97	Resp:	5045
Ion	Ratio	Lower	Upper
97	100		
83	96.0	72.6	108.8
85	54.3	46.9	70.3
99	59.9	51.0	76.6

Manual Integrations
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MMDadoda
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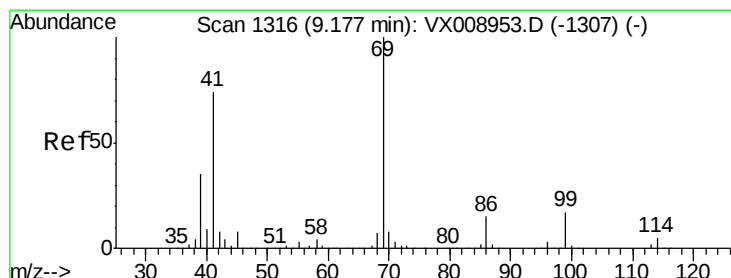
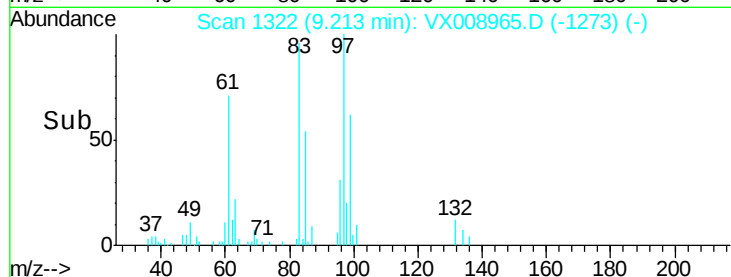
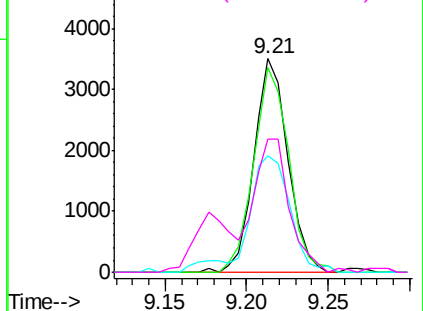


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 2.006 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VX008965.D

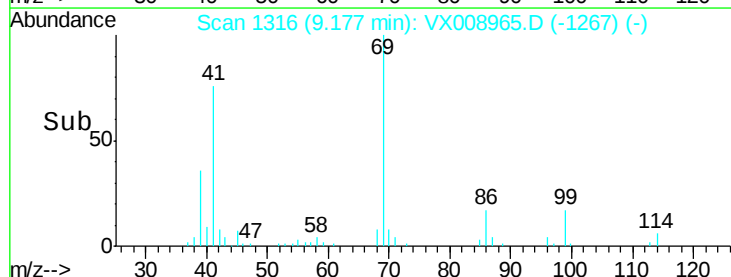
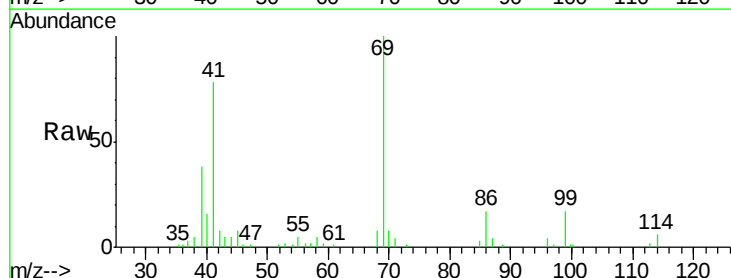
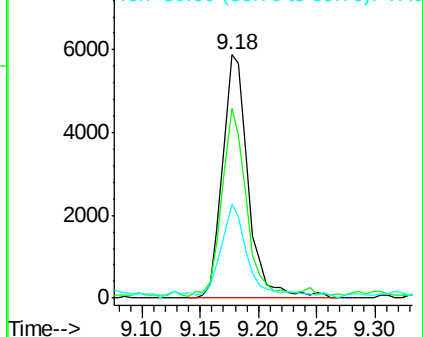
Acq: 15 Apr 2019 17:09

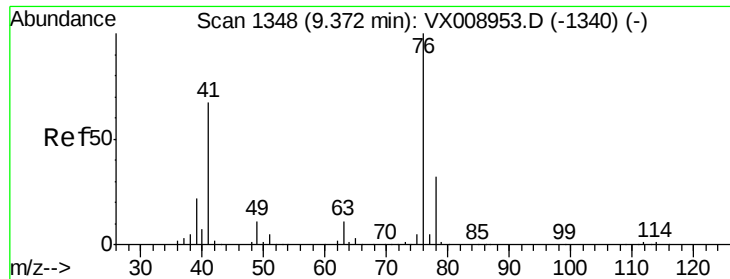
Tgt Ion:	69	Resp:	9016
Ion	Ratio	Lower	Upper
69	100		
41	72.3	60.2	90.2
39	41.5	27.9	41.9

Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





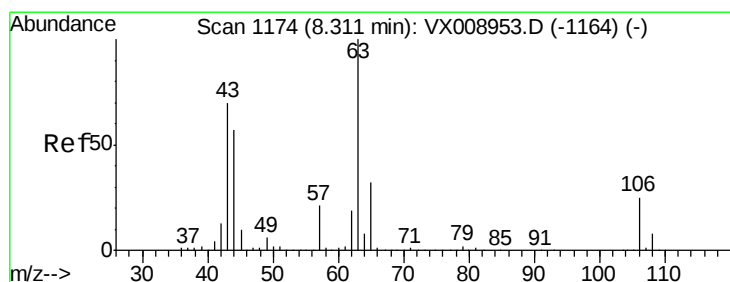
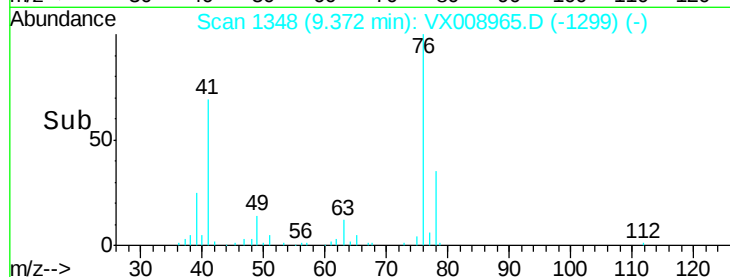
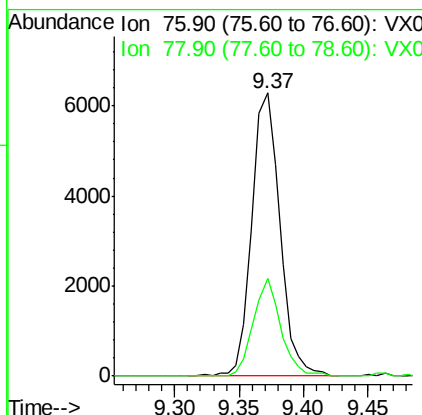
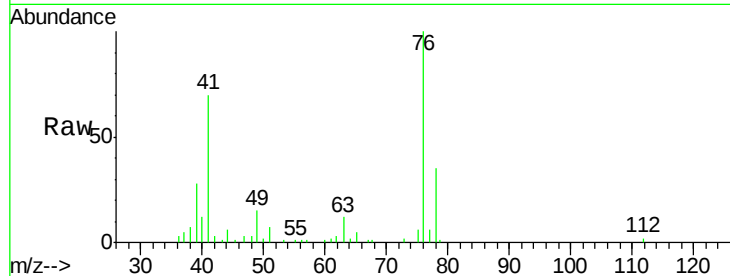
#57
 1,3-Dichloropropane
 Concen: 2.115 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion: 76 Resp: 9441
 Ion Ratio Lower Upper
 76 100
 78 33.7 25.7 38.5

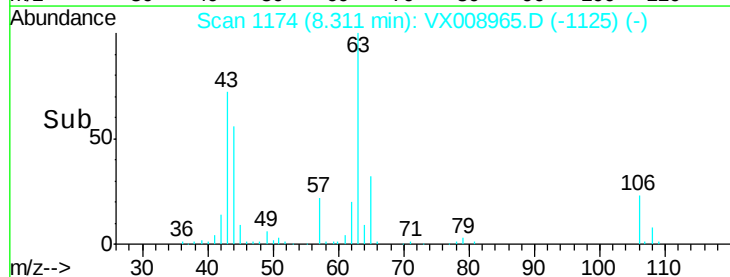
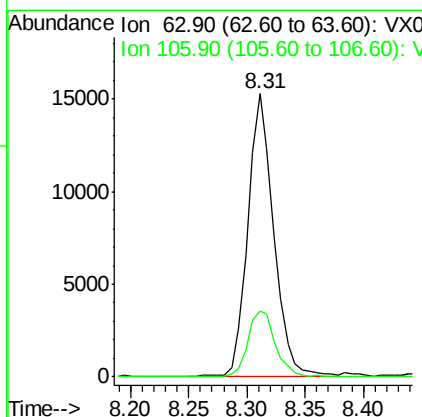
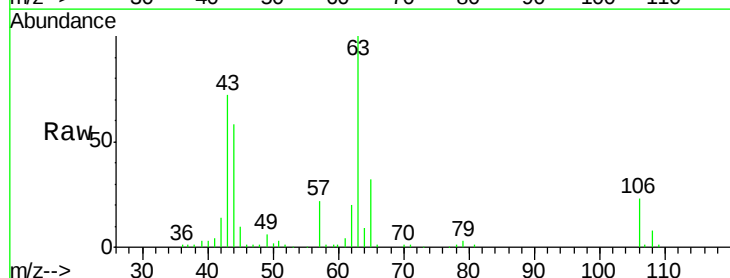
Manual Integrations
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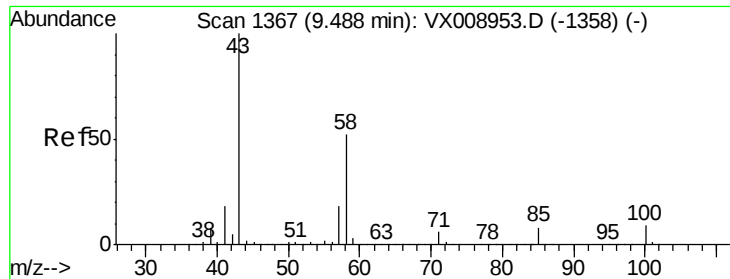
MMDadoda
 4/16/2019 10:54:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 9.857 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion: 63 Resp: 23857
 Ion Ratio Lower Upper
 63 100
 106 24.5 19.8 29.6





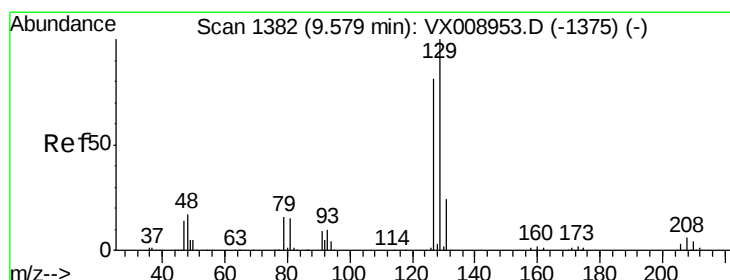
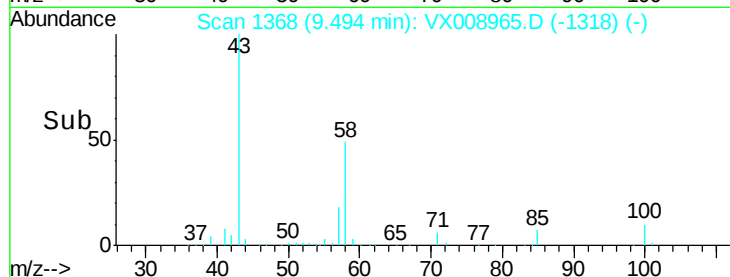
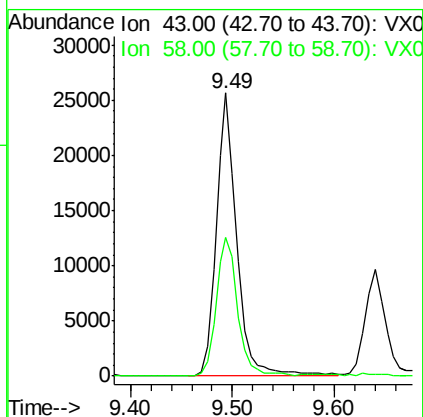
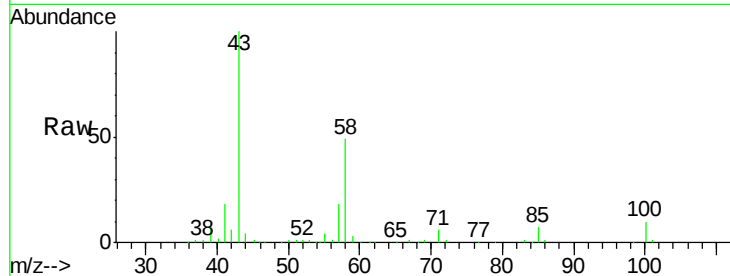
#59
2-Hexanone
Concen: 9.789 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 43 Resp: 35666
Ion Ratio Lower Upper
43 100
58 52.1 25.9 77.8

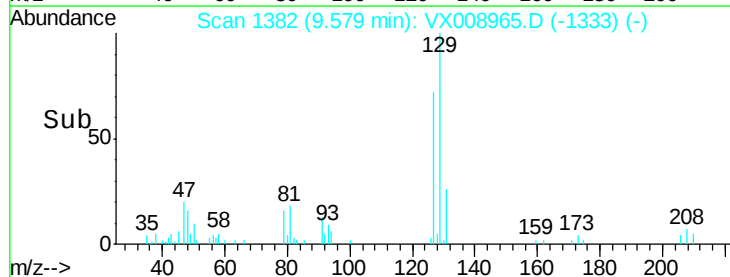
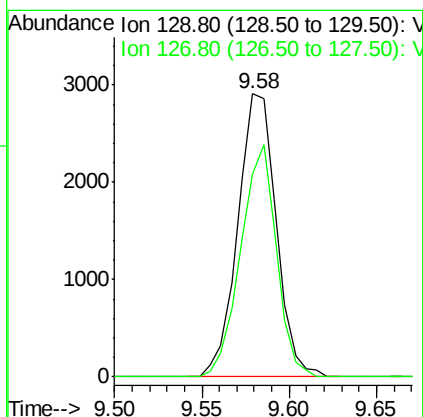
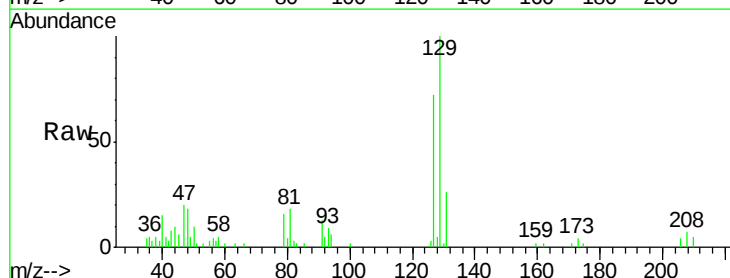
Manual Integrations
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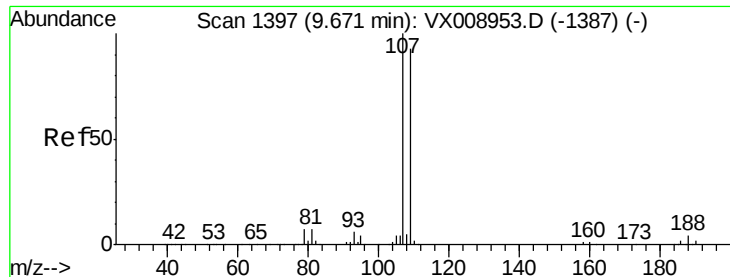
MMDadoda
4/16/2019 10:54:06 AM



#60
Dibromochloromethane
Concen: 1.852 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion:129 Resp: 4449
Ion Ratio Lower Upper
129 100
127 76.0 39.1 117.2





#61

1,2-Dibromoethane

Concen: 2.099 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:107 Resp: 5431

Ion Ratio Lower Upper

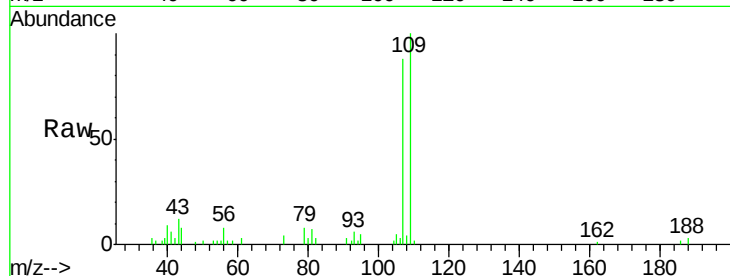
107 100

109 95.7 74.4 111.6

Manual Integrations
APPROVED

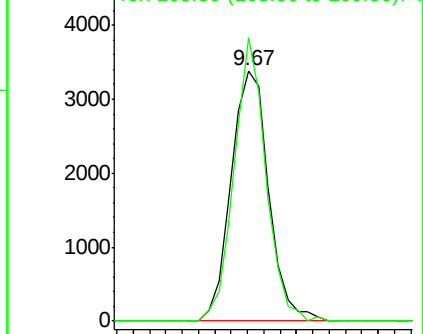
MMDadoda

4/16/2019 10:54:06 AM

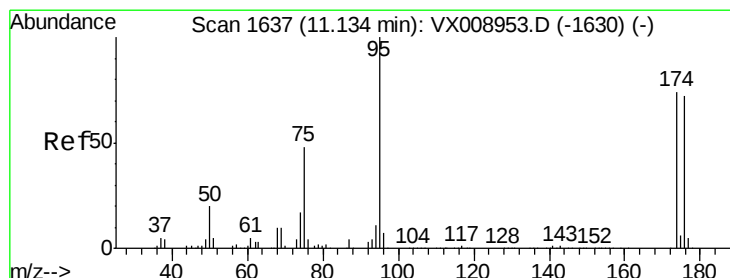
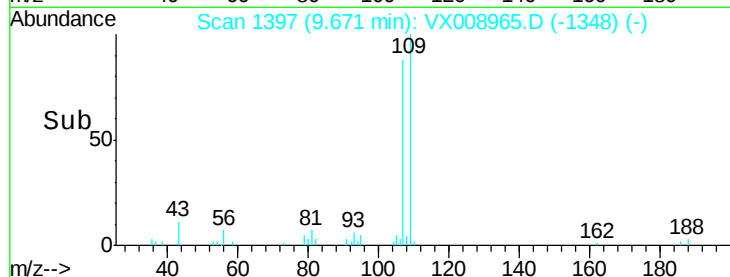


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 48.572 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

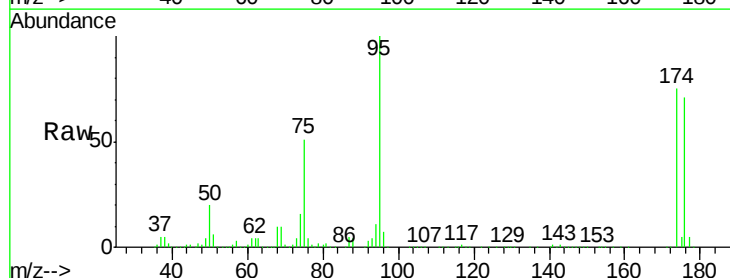
Tgt Ion: 95 Resp: 151788

Ion Ratio Lower Upper

95 100

174 79.1 0.0 159.6

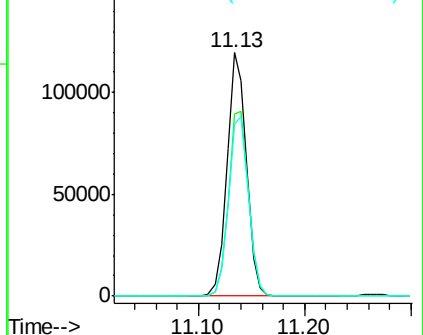
176 76.6 0.0 154.8



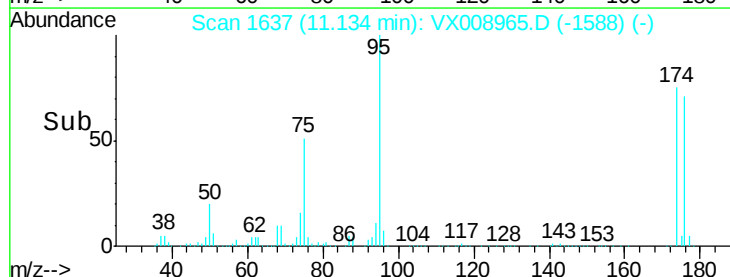
Abundance Ion 94.90 (94.60 to 95.60): VX0

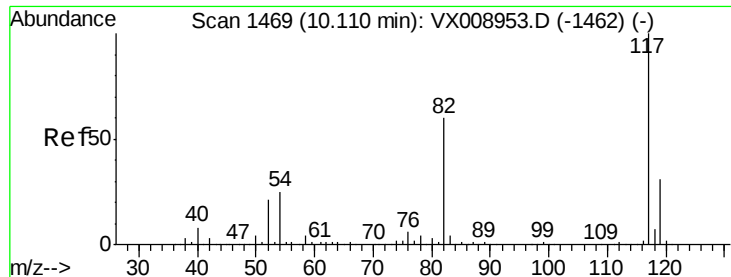
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





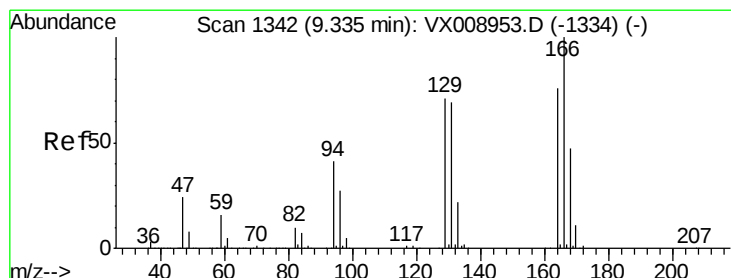
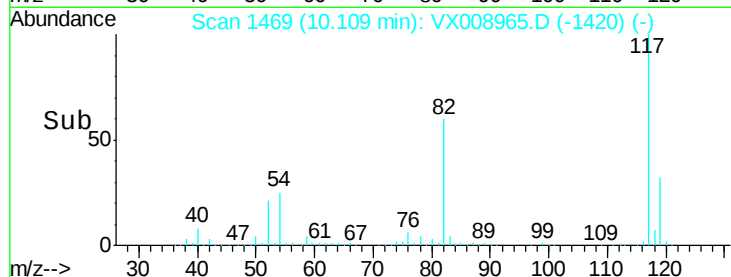
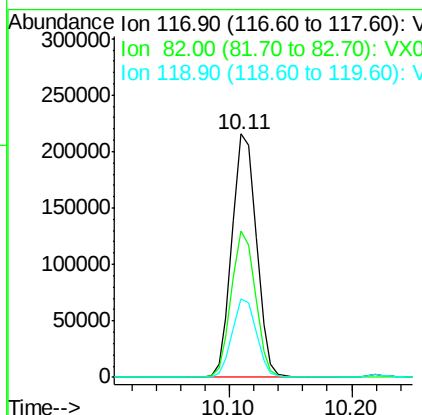
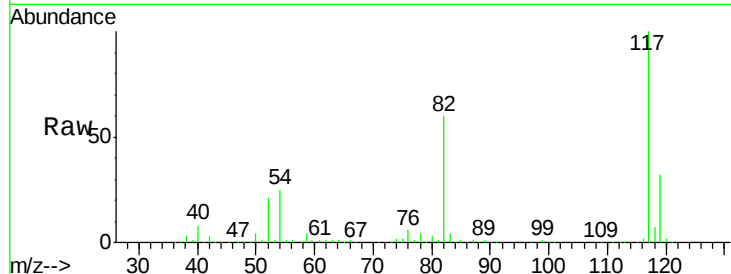
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	298650		
82	60.4	48.2	72.4	
119	32.2	25.0	37.6	

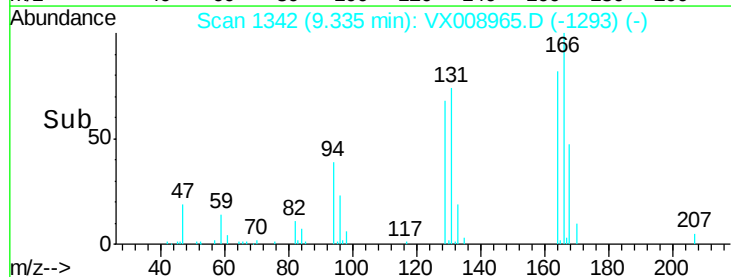
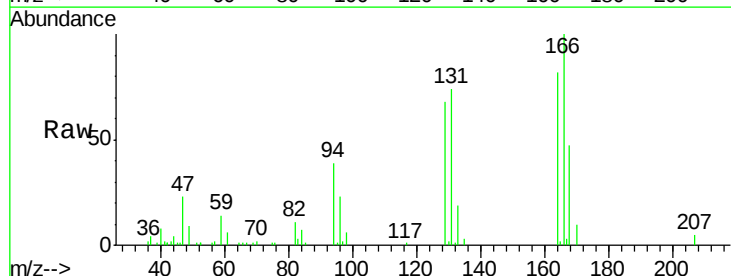
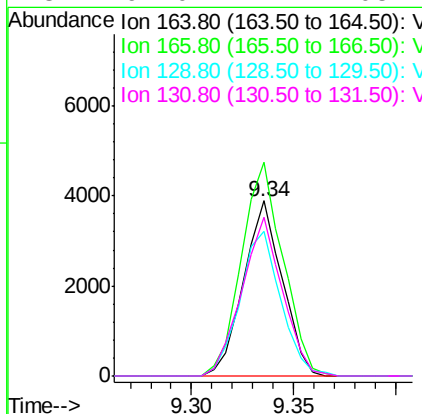
Manual Integrations
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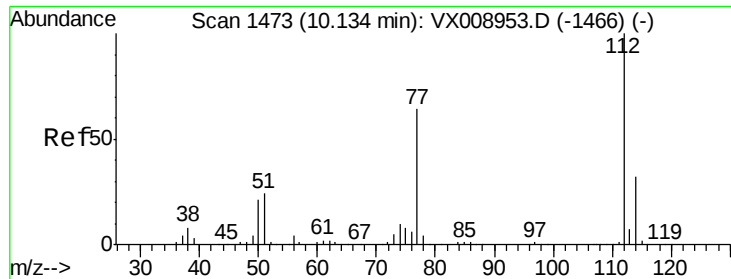
MMDadoda
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#64
Tetrachloroethene
Concen: 2.261 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	5130		
166	122.2	105.0	157.4	
129	83.0	74.2	111.4	
131	91.0	72.2	108.2	





#65

Chlorobenzene

Concen: 2.108 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:112 Resp: 13291

Ion Ratio Lower Upper

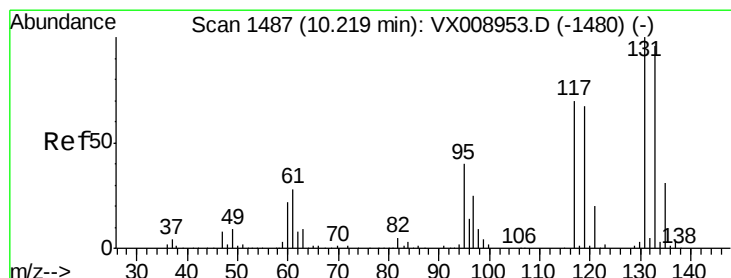
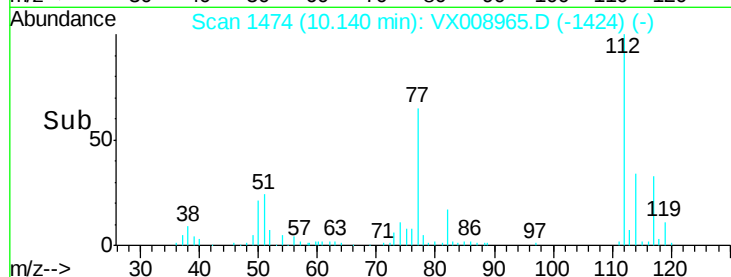
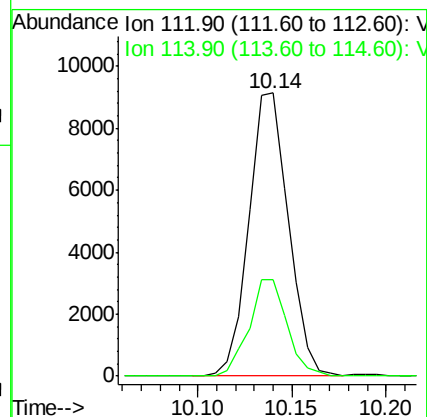
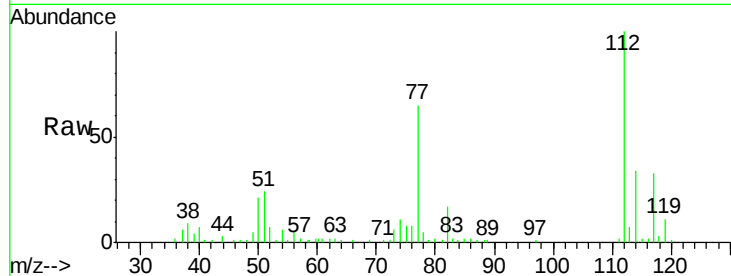
112 100

114 34.2 25.4 38.0

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 2.062 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

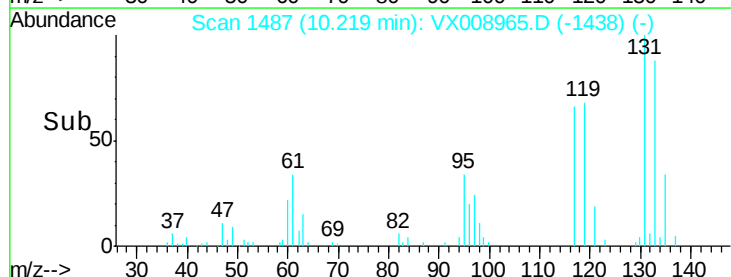
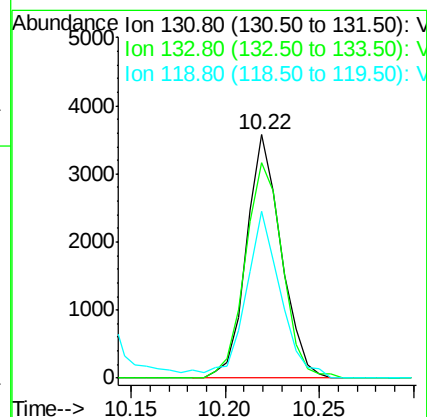
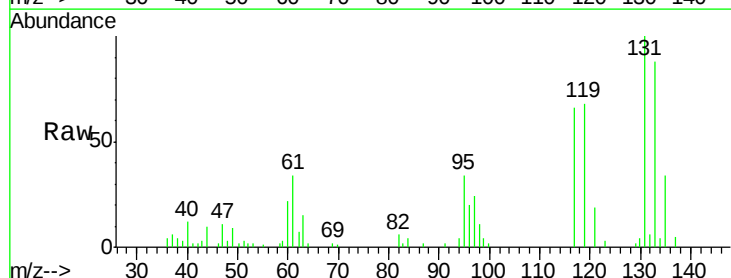
Tgt Ion:131 Resp: 4579

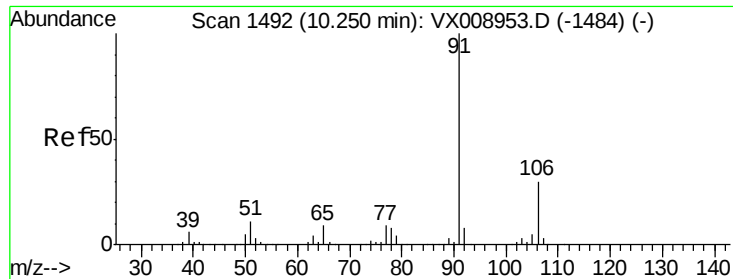
Ion Ratio Lower Upper

131 100

133 94.9 48.0 144.2

119 69.4 33.7 101.1





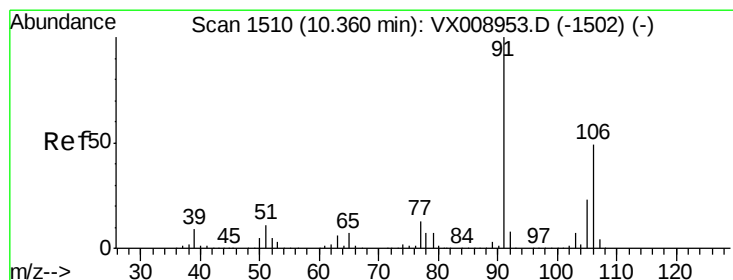
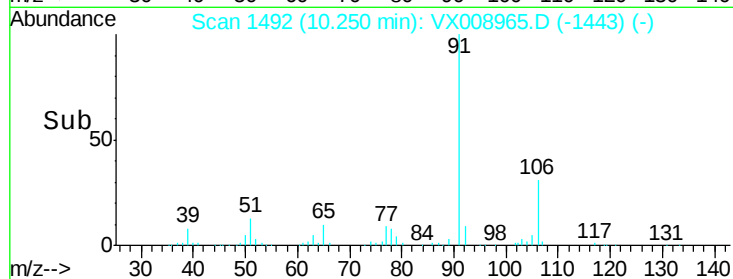
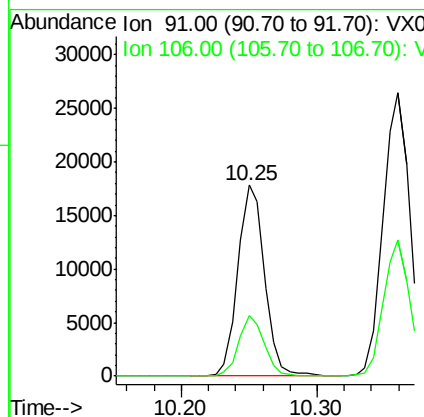
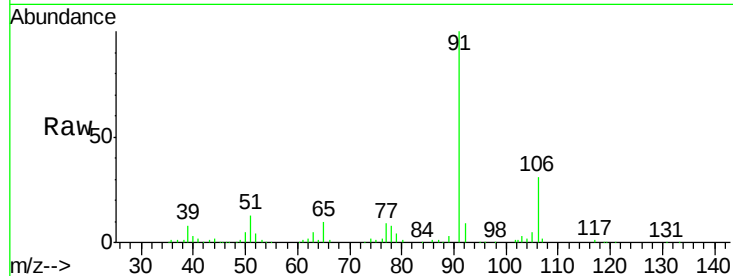
#67
Ethyl Benzene
Concen: 2.120 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion: 91 Resp: 24425
Ion Ratio Lower Upper
91 100
106 31.5 24.3 36.5

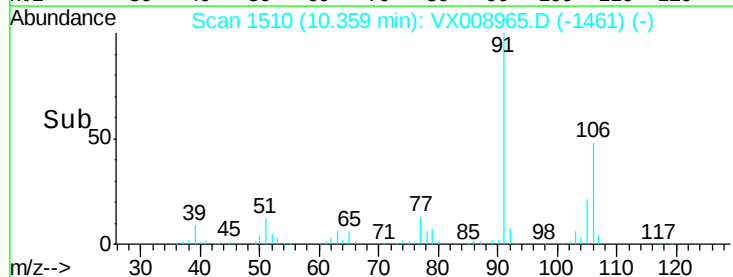
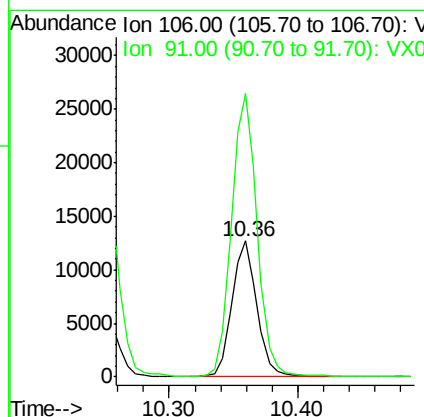
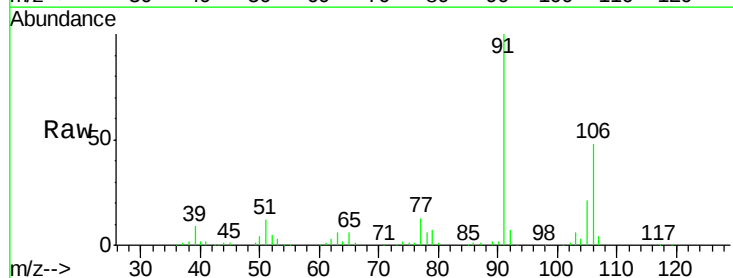
Manual Integrations
APPROVED

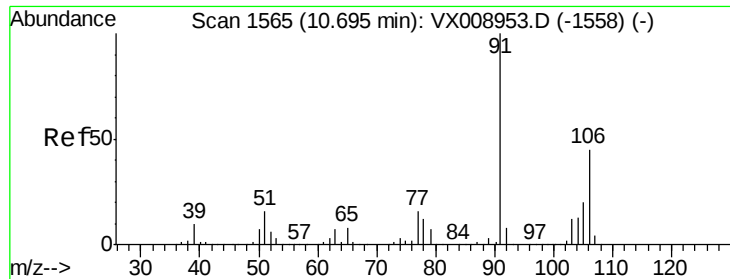
MMDadoda
4/16/2019 10:54:06 AM



#68
m/p-Xylenes
Concen: 4.116 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion: 106 Resp: 17238
Ion Ratio Lower Upper
106 100
91 214.3 165.4 248.2





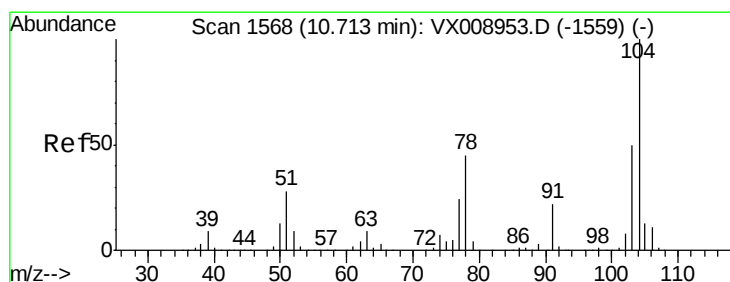
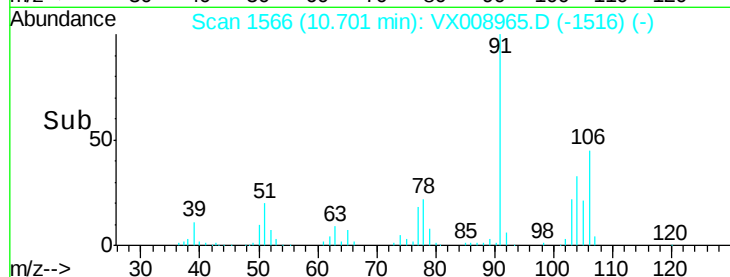
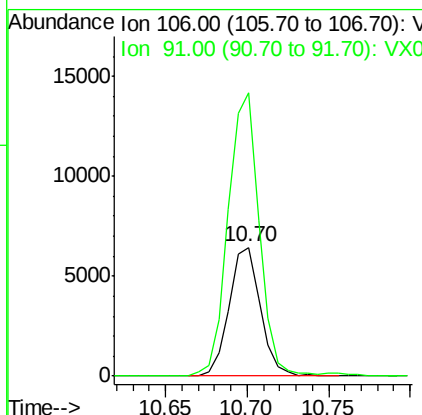
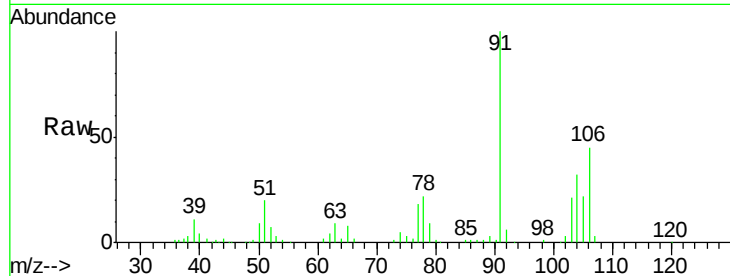
#69
o-Xylene
Concen: 2.094 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion:106 Resp: 8532
Ion Ratio Lower Upper
106 100
91 219.8 108.9 326.7

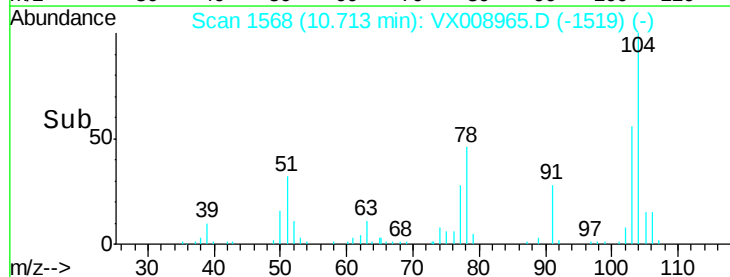
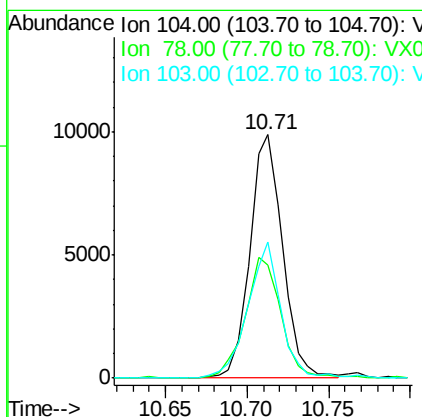
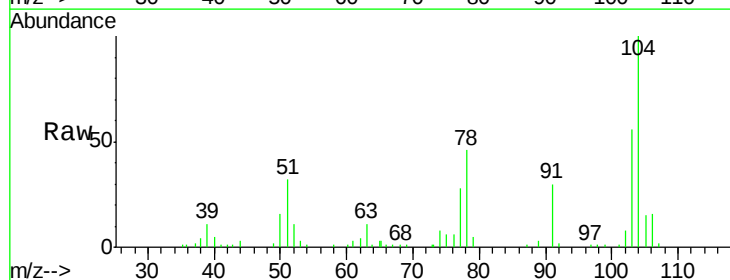
Manual Integrations
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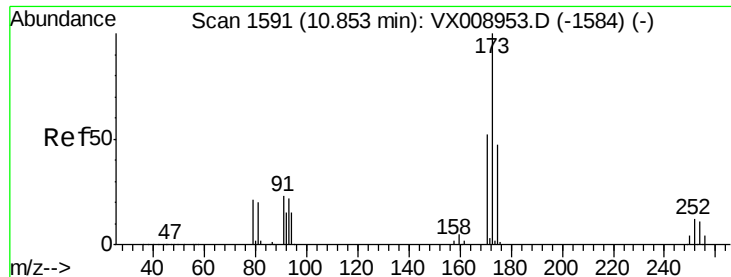
MMDadoda
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#70
Styrene
Concen: 1.962 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion:104 Resp: 13855
Ion Ratio Lower Upper
104 100
78 54.7 41.2 61.8
103 56.5 43.9 65.9





#71

Bromoform

Concen: 1.738 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

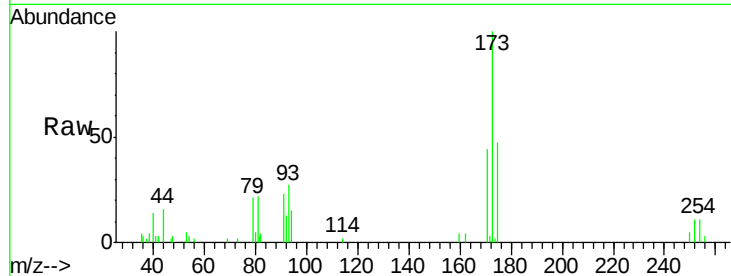
ClientSampleId :

LOQ-WATER-02-QT2-2019

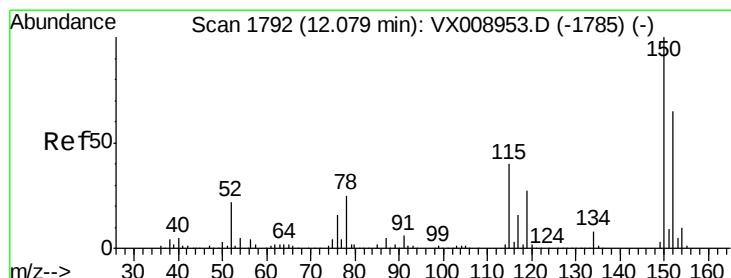
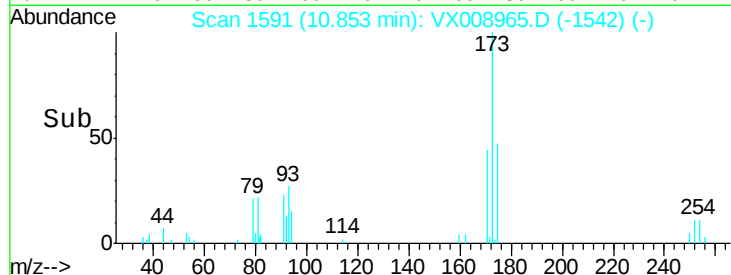
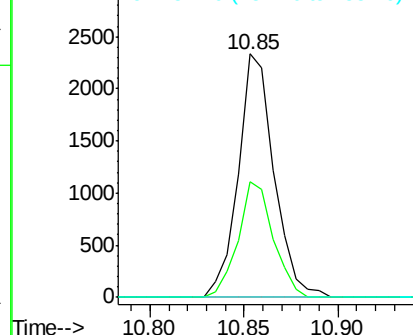
Tot Ion	Ratio	Lower	Upper
173	100		
175	46.5	23.9	71.8
254	0.0	0.2	0.4

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

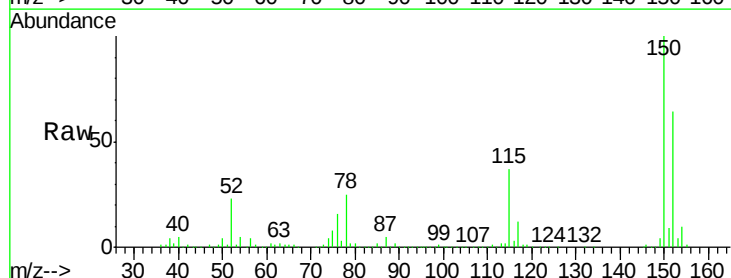
RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

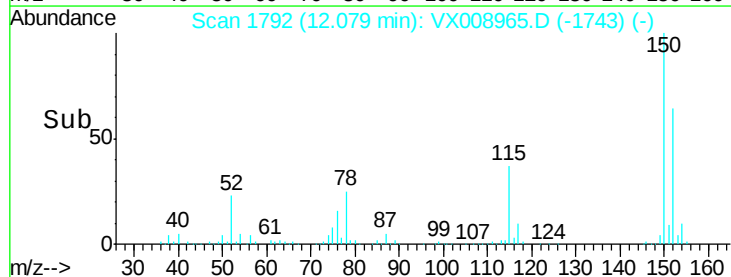
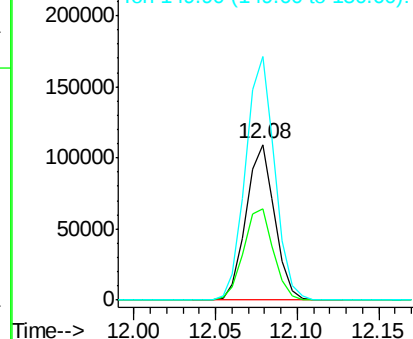
Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	41.4	124.2
150	158.6	0.0	349.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.252 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 105 Resp: 22867

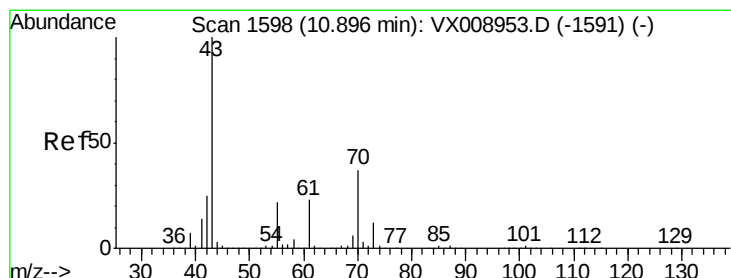
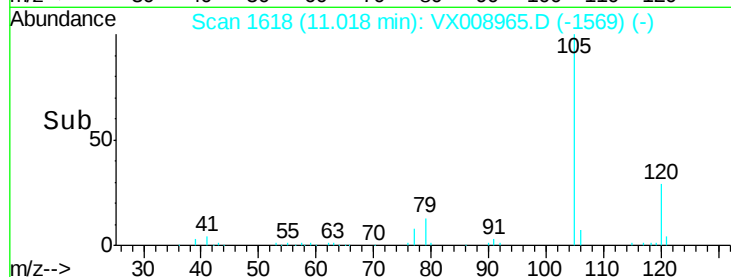
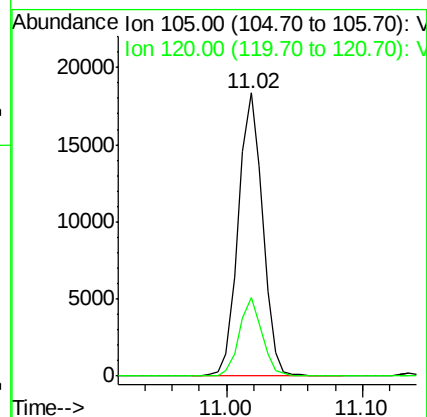
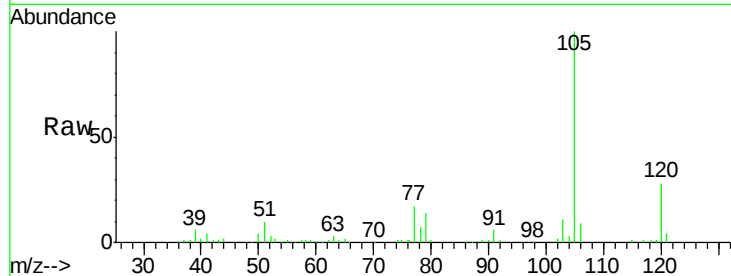
Ion Ratio Lower Upper

105 100

120 26.1 12.9 38.7

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#74

N-ethyl acetate

Concen: 2.145 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion: 43 Resp: 12506

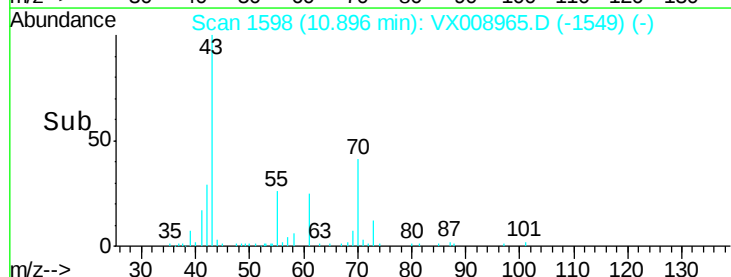
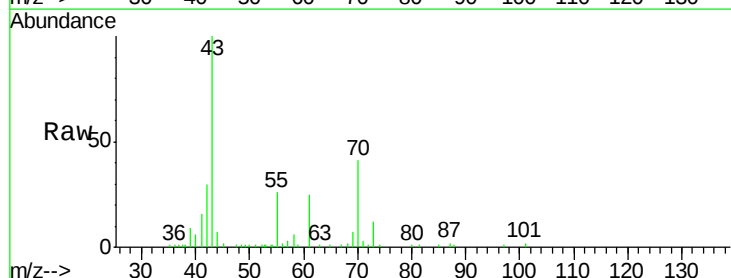
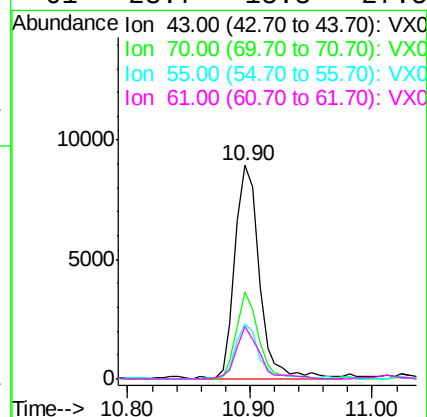
Ion Ratio Lower Upper

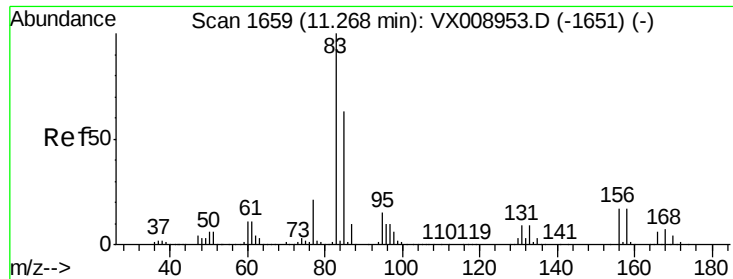
43 100

70 36.4 29.9 44.9

55 25.1 17.8 26.8

61 23.7 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 2.237 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

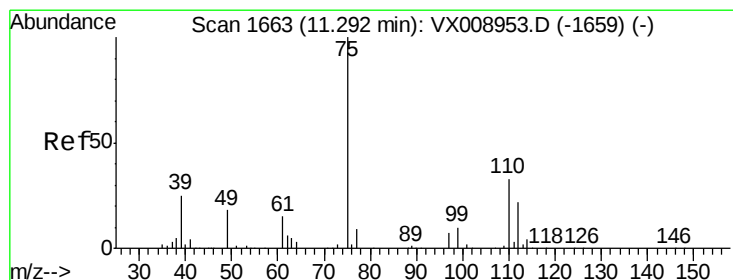
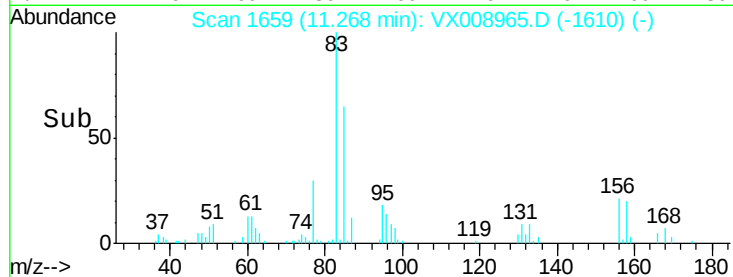
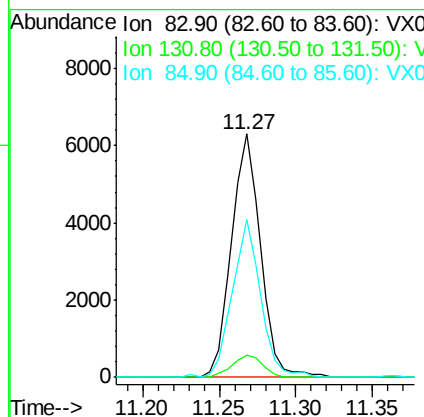
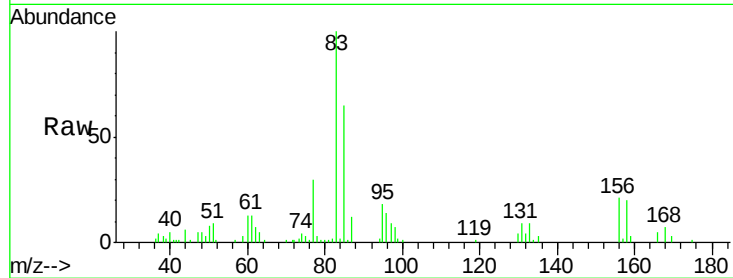
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	83	Resp:	8301
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	63.1	31.9	95.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 2.368 ug/l m

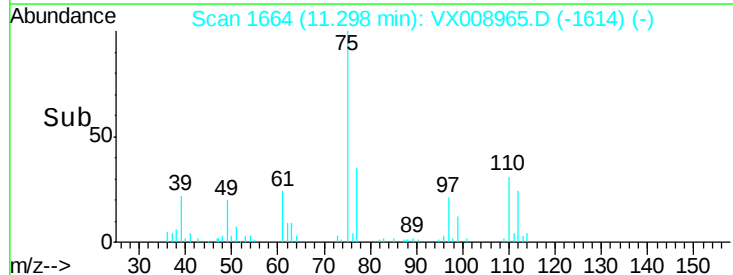
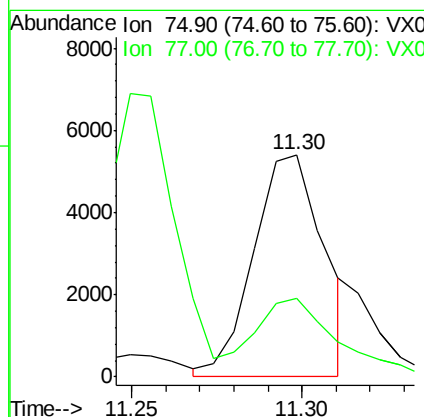
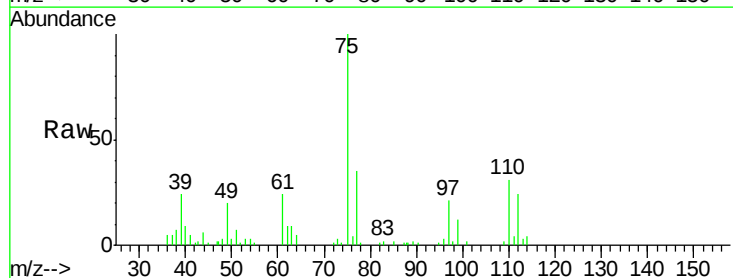
RT: 11.30 min Scan# 1664

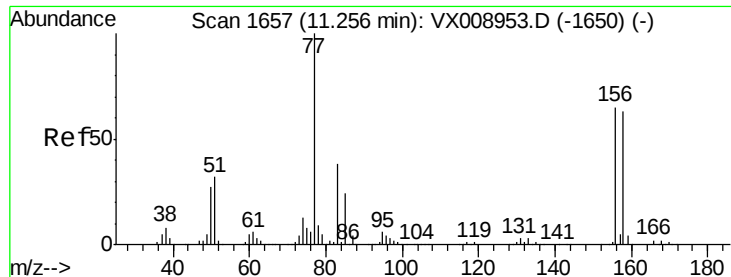
Delta R.T. 0.01 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	75	Resp:	7746
Ion	Ratio	Lower	Upper
75	100		
77	39.5	22.7	68.0





#77

Bromobenzene

Concen: 2.072 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

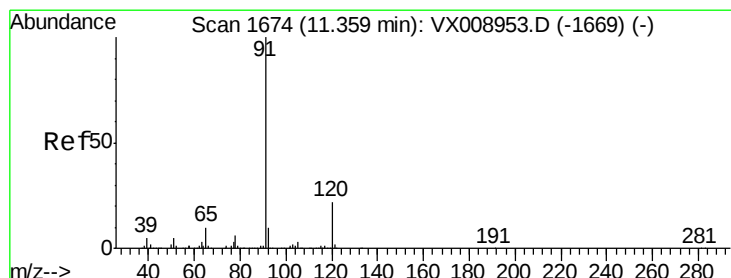
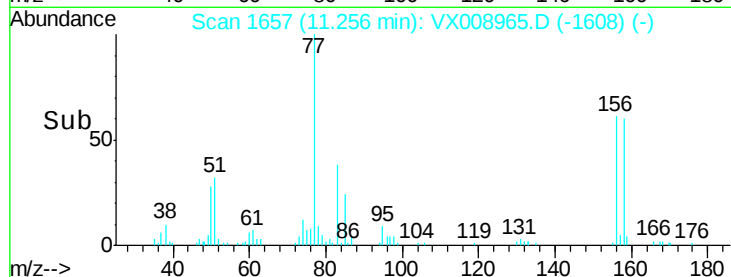
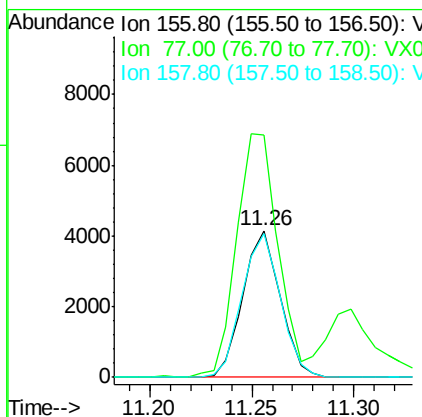
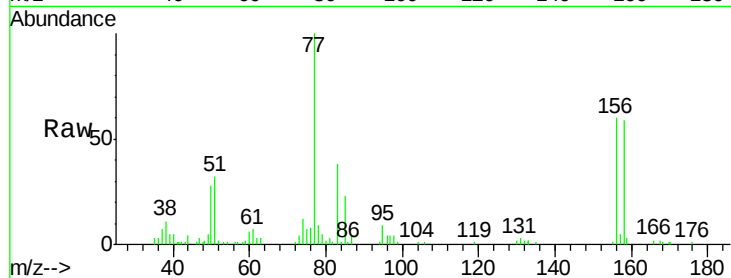
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:	156	Resp:	5307
Ion	Ratio	Lower	Upper
156	100		
77	186.0	85.4	256.1
158	100.5	48.8	146.4

Manual Integrations
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#78

n-propylbenzene

Concen: 2.169 ug/l

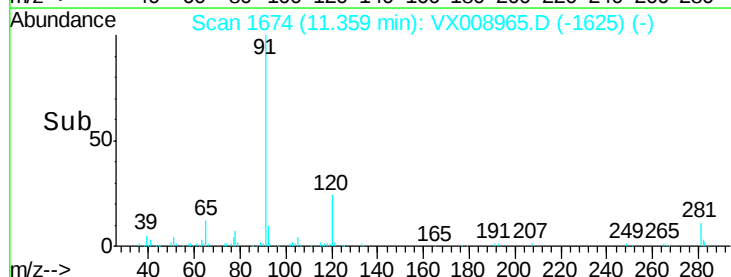
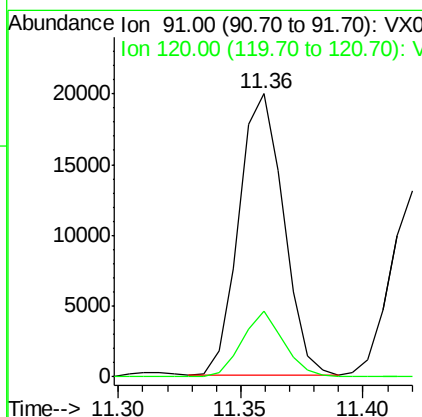
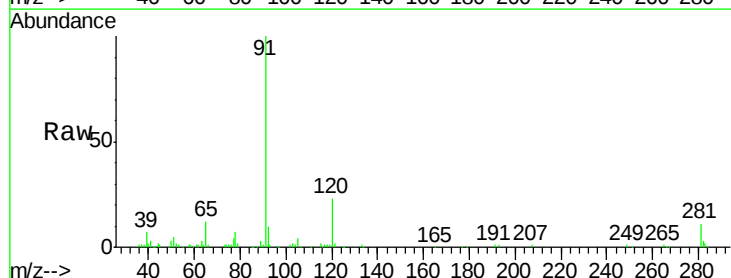
RT: 11.36 min Scan# 1674

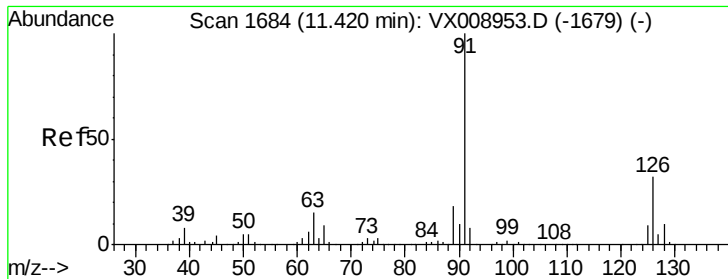
Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:	91	Resp:	25274
Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.9	32.9





#79

2-Chlorotoluene

Concen: 2.292 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 91 Resp: 16099

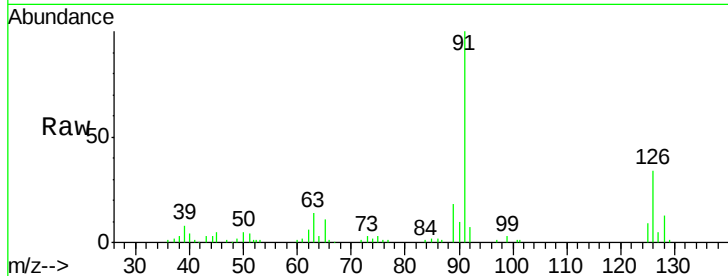
Ion Ratio Lower Upper

91 100

126 32.9 16.3 48.9

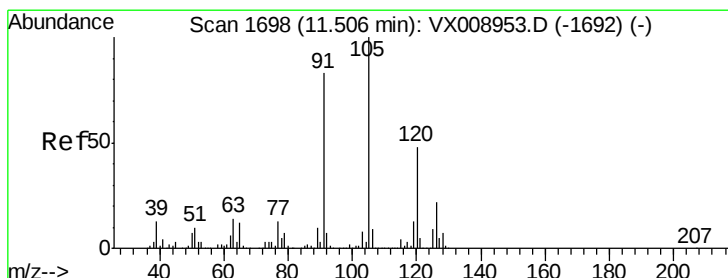
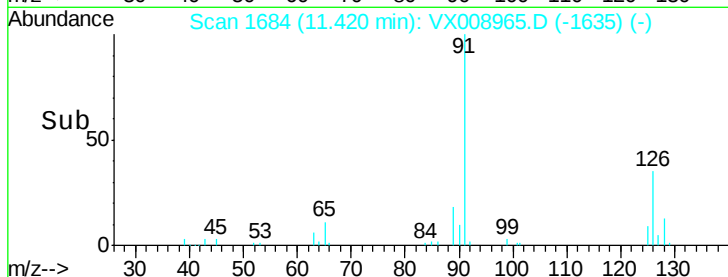
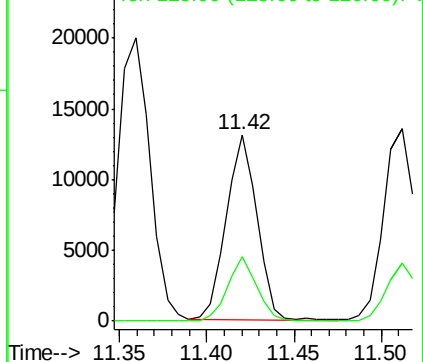
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 2.153 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008965.D

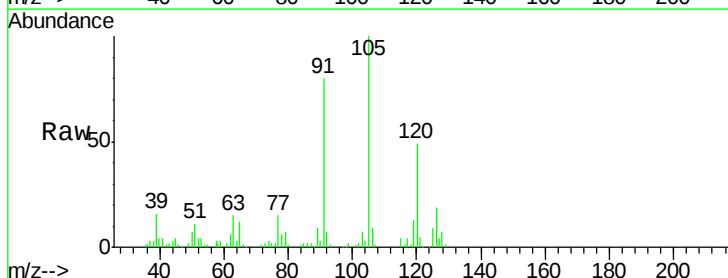
Acq: 15 Apr 2019 17:09

Tgt Ion:105 Resp: 18345

Ion Ratio Lower Upper

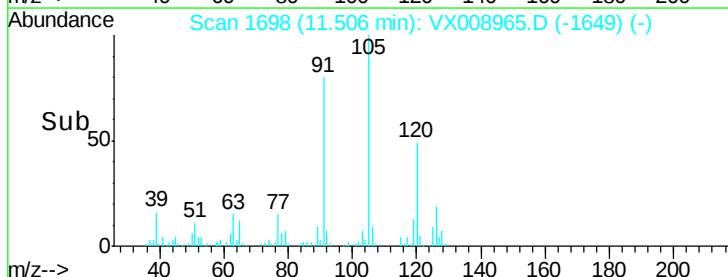
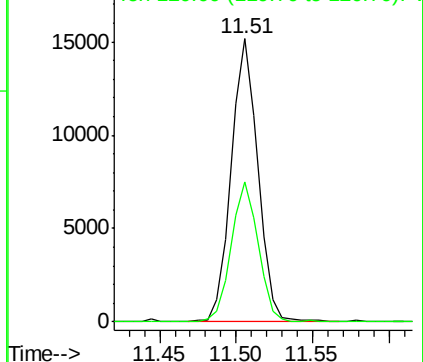
105 100

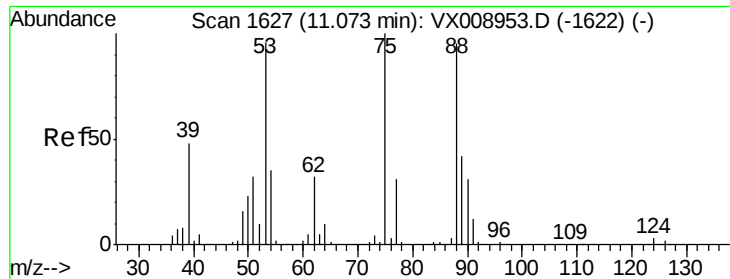
120 49.8 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.694 ug/l m

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion: 75 Resp: 2158

Ion Ratio Lower Upper

75 100

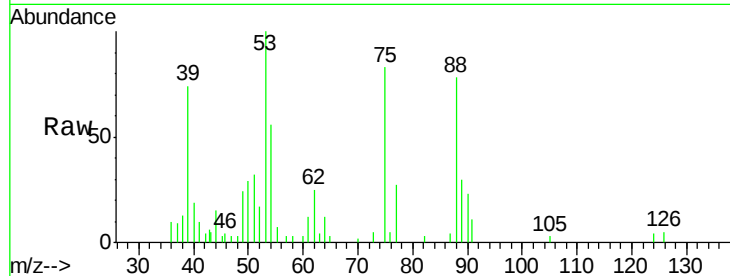
53 4.2 78.2 117.4#

89 1.7 36.0 54.0#

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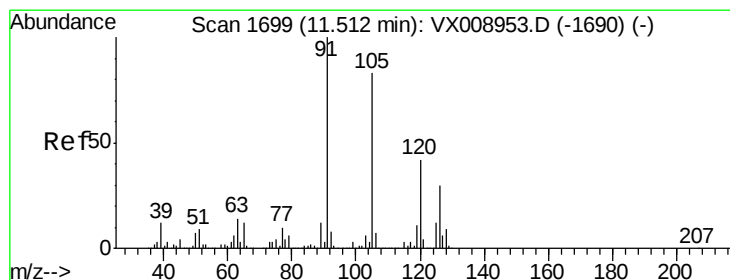
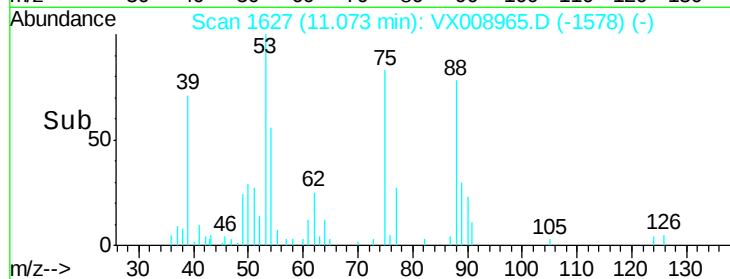
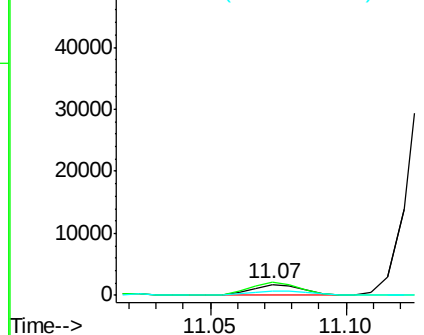
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Abundance Ion 74.90 (74.60 to 75.60): VX008965.D (-1578) (-)

Ion 53.00 (52.70 to 53.70): VX008965.D (-1578) (-)

Ion 88.90 (88.60 to 89.60): VX008965.D (-1578) (-)



#82

4-Chlorotoluene

Concen: 2.155 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VX008965.D

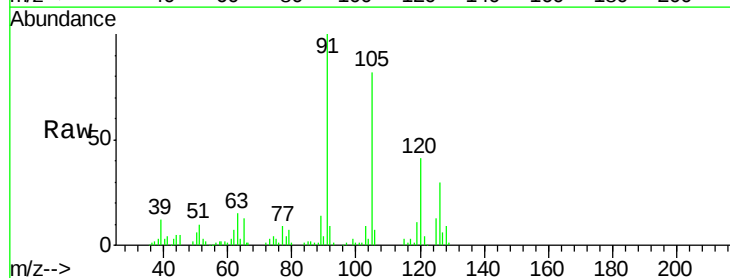
Acq: 15 Apr 2019 17:09

Tgt Ion: 91 Resp: 17574

Ion Ratio Lower Upper

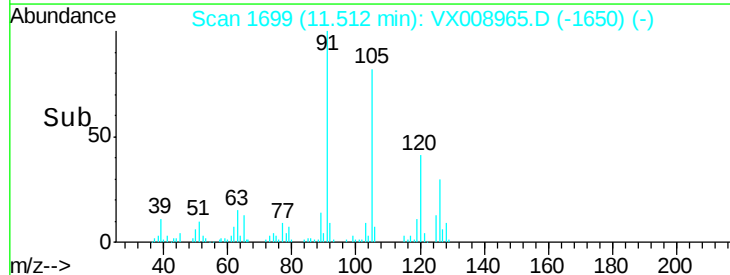
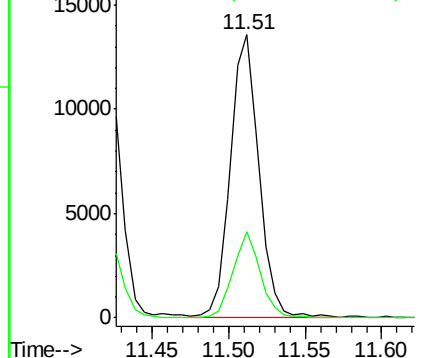
91 100

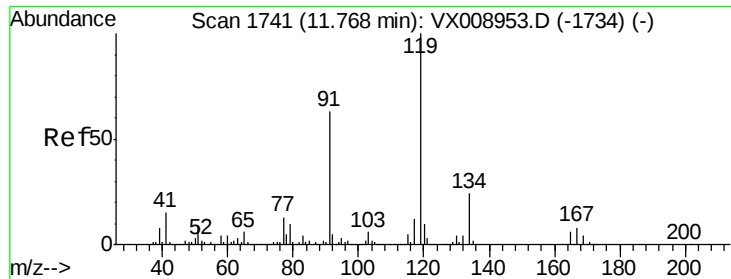
126 28.9 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VX008965.D (-1650) (-)

Ion 125.90 (125.60 to 126.60): VX008965.D (-1650) (-)





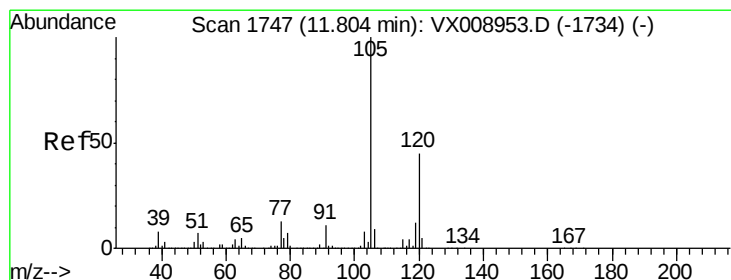
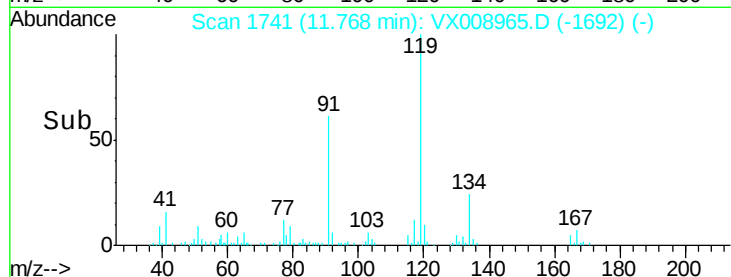
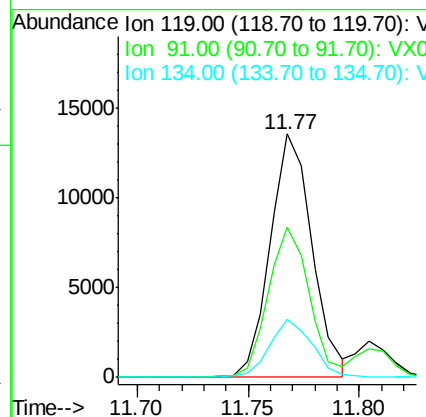
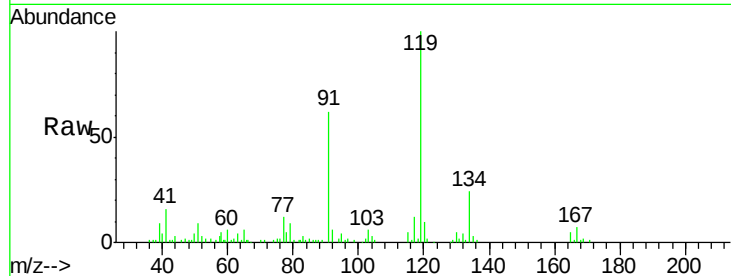
#83
tert-Butylbenzene
Concen: 2.164 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	17699		
91	61.0		29.7	89.1
134	24.4		11.2	33.5

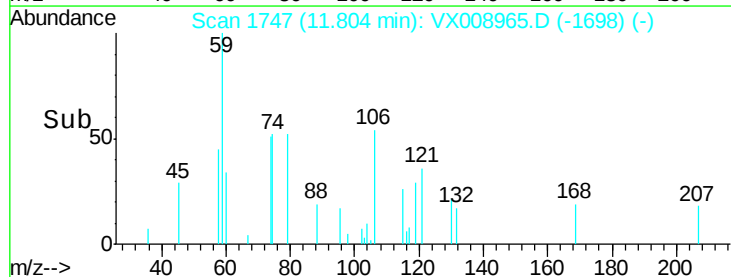
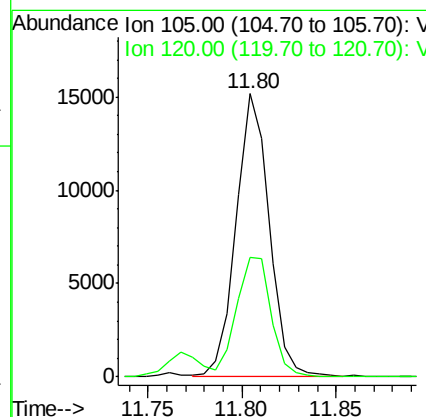
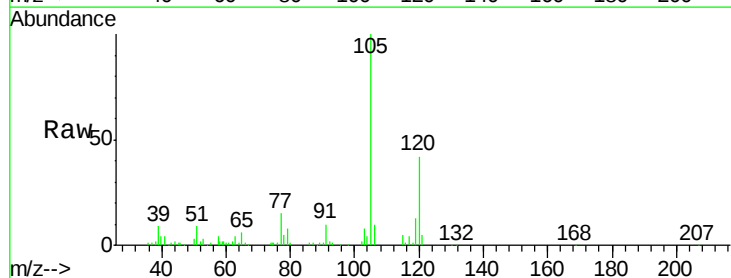
Manual Integrations
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#84
1,2,4-Trimethylbenzene
Concen: 2.142 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	18582		
120	43.8		21.9	65.8





#85

sec-Butylbenzene

Concen: 2.193 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:105 Resp: 21394

Ion Ratio Lower Upper

105 100

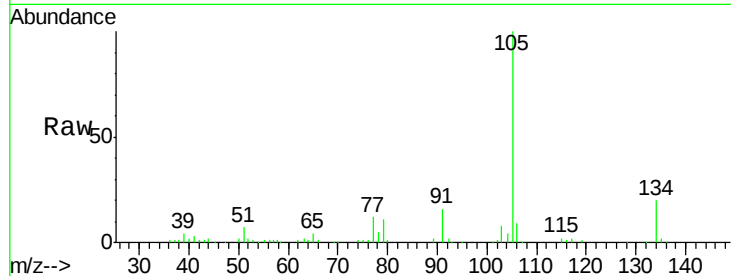
134 19.6 9.6 28.6

Manual Integrations

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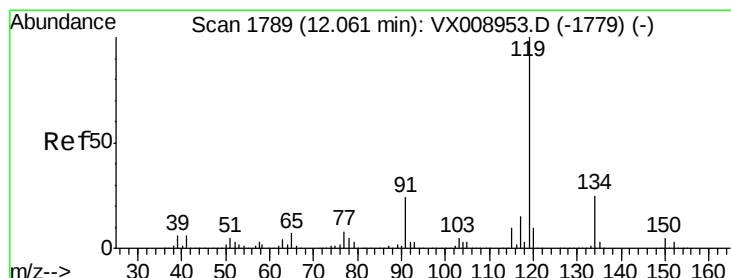
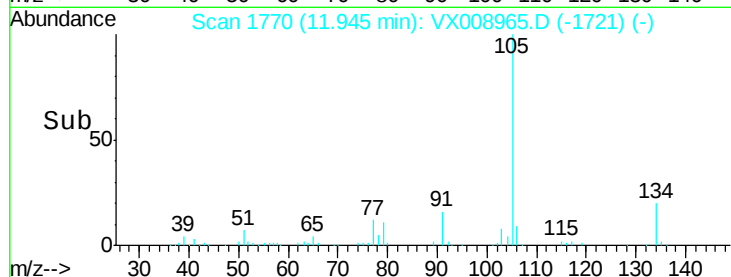
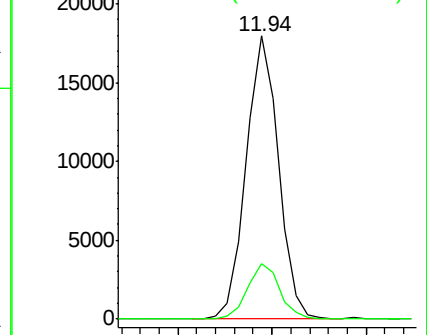
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.082 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

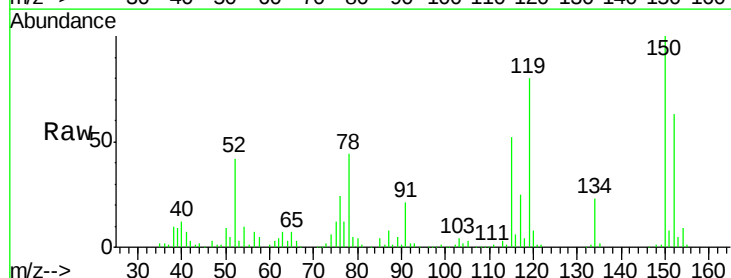
Tgt Ion:119 Resp: 18674

Ion Ratio Lower Upper

119 100

134 27.0 12.9 38.6

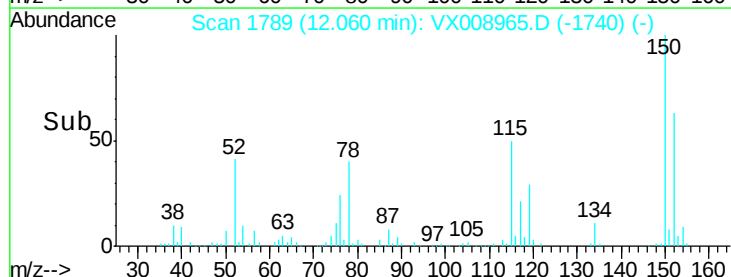
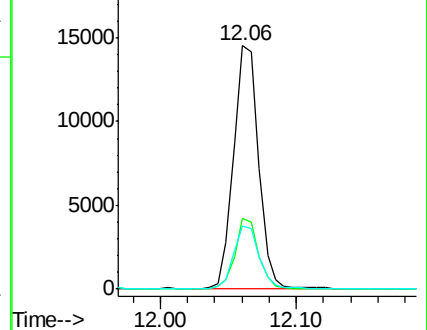
91 26.5 11.9 35.5

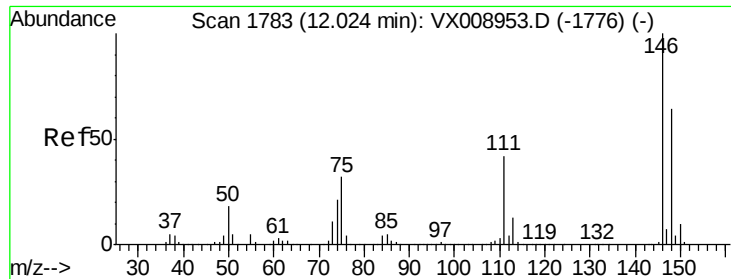


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





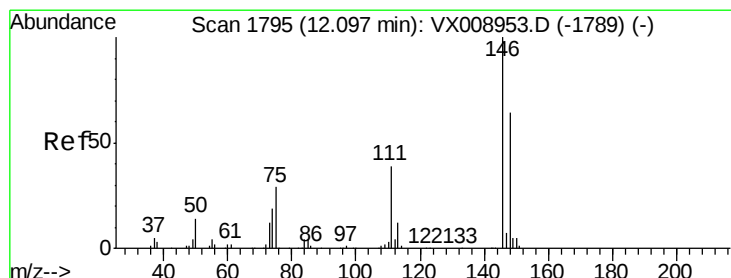
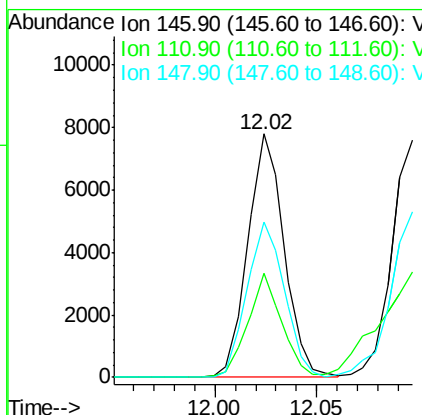
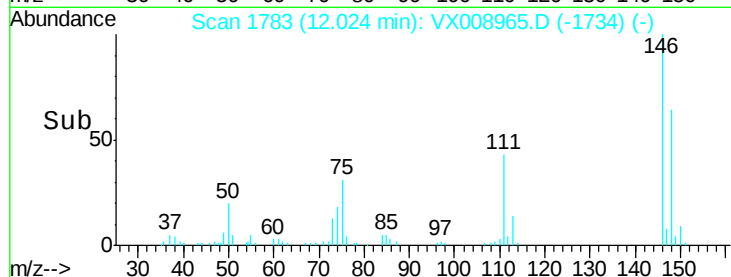
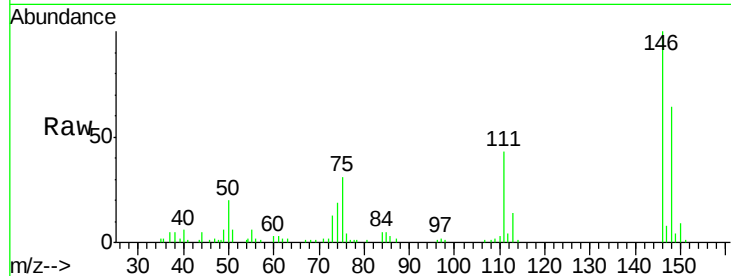
#87
 1,3-Dichlorobenzene
 Concen: 2.155 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.5	61.6
148	65.7	32.2	96.6

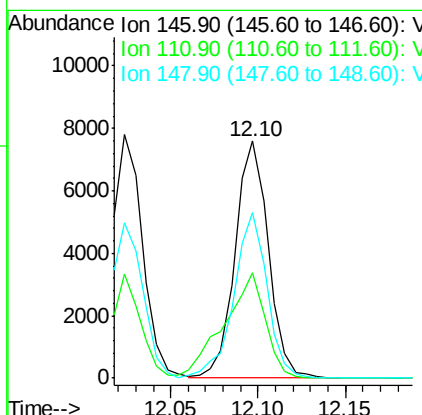
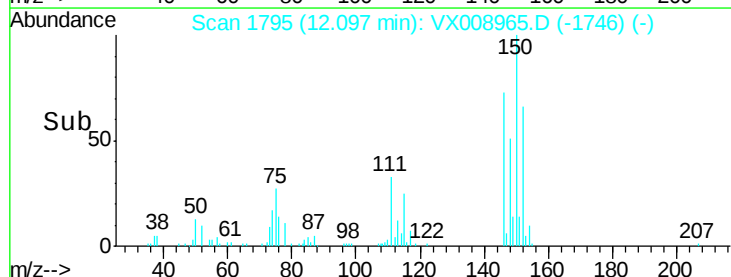
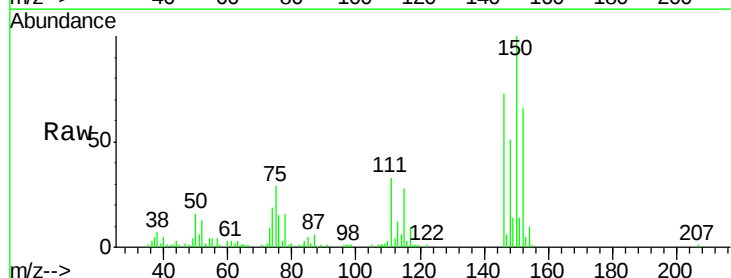
Manual Integrations
 APPROVED

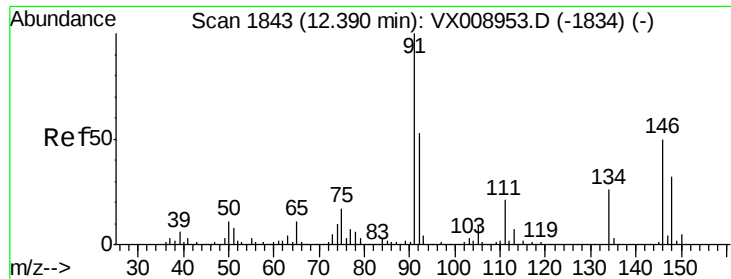
MMDadoda
 4/16/2019 10:54:06 AM



#88
 1,4-Dichlorobenzene
 Concen: 2.208 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	55.2	20.0	59.9
148	69.7	32.2	96.6





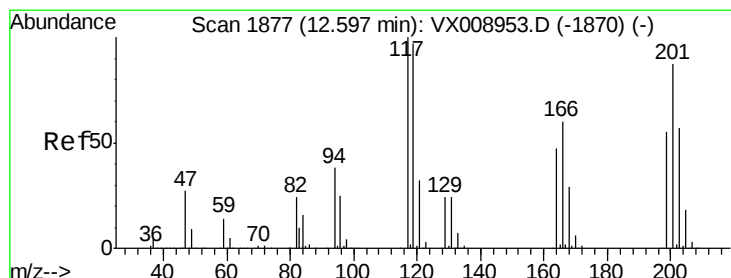
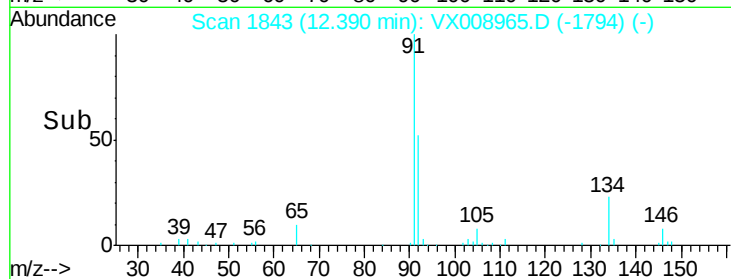
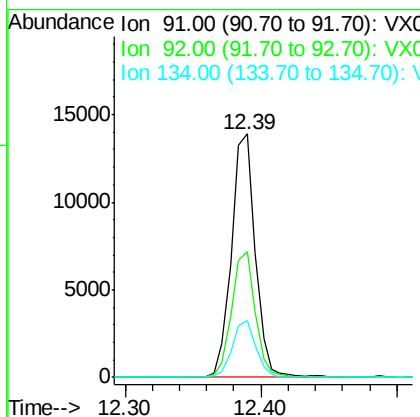
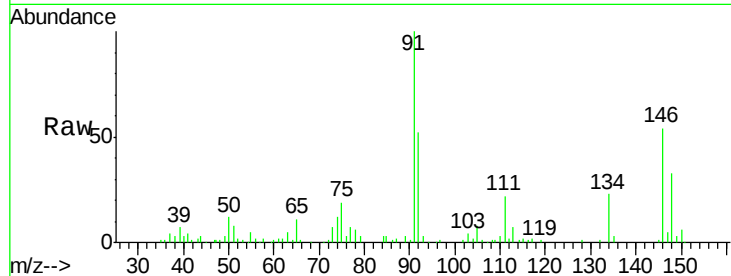
#89
n-Butylbenzene
Concen: 2.029 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		16946		
92	51.2	26.6	79.8		
134	23.0	12.4	37.2		

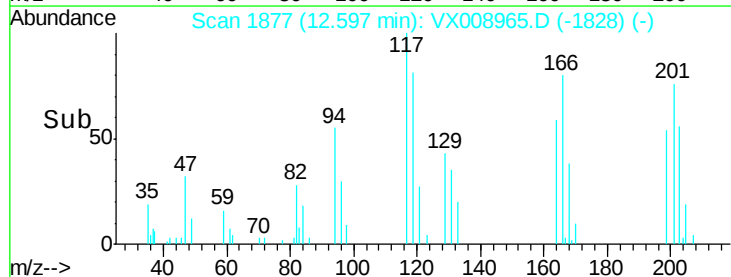
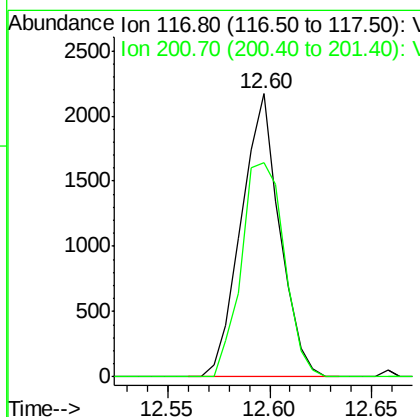
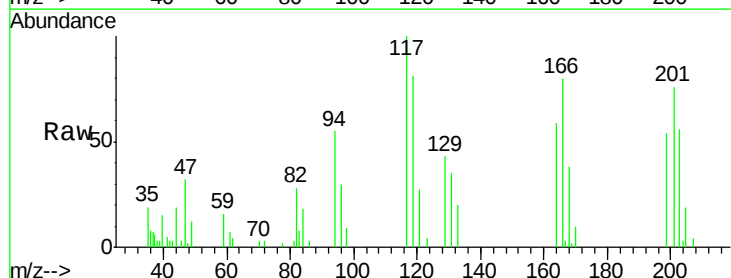
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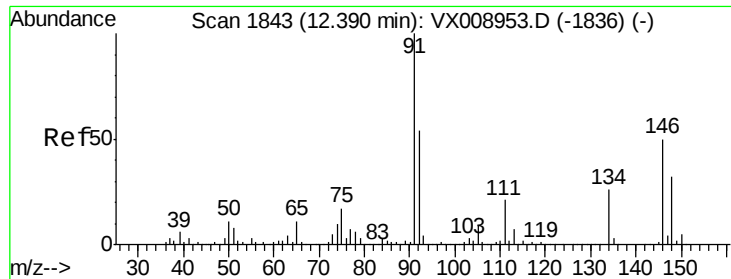
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#90
Hexachloroethane
Concen: 1.924 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX008965.D
Acq: 15 Apr 2019 17:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		2847		
201	84.8	43.0	129.0		





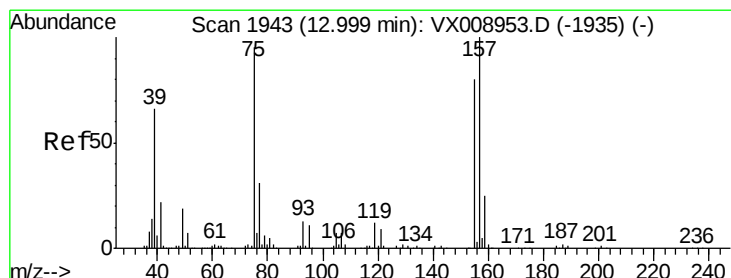
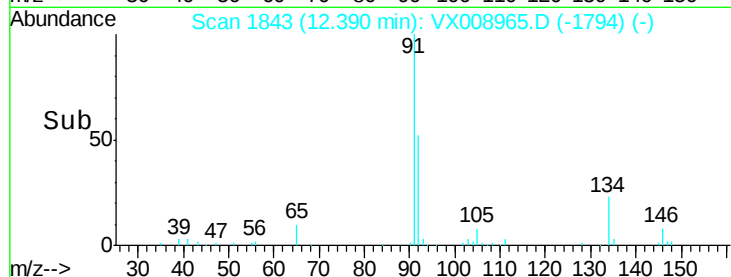
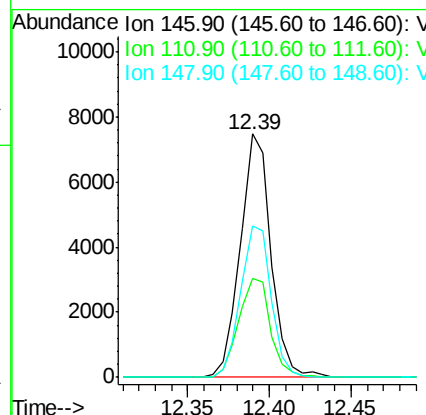
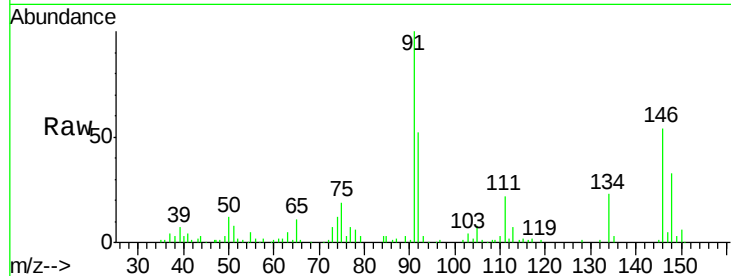
#91
 1,2-Dichlorobenzene
 Concen: 2.217 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.6	61.9
148	61.7	32.0	96.2

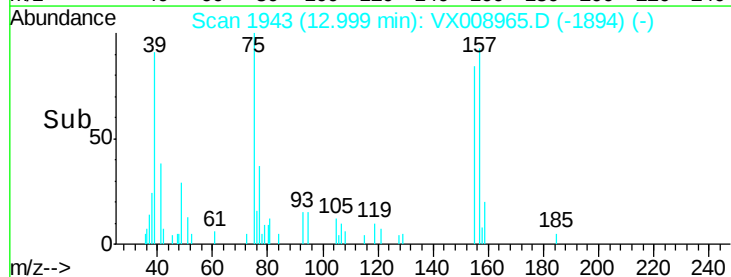
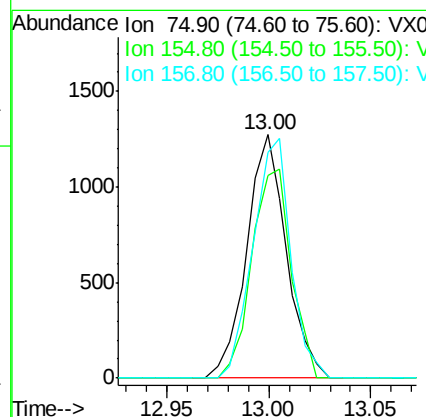
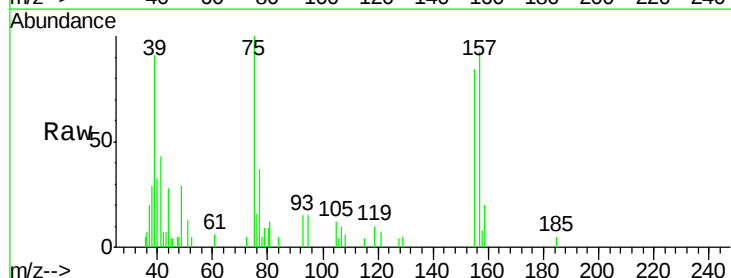
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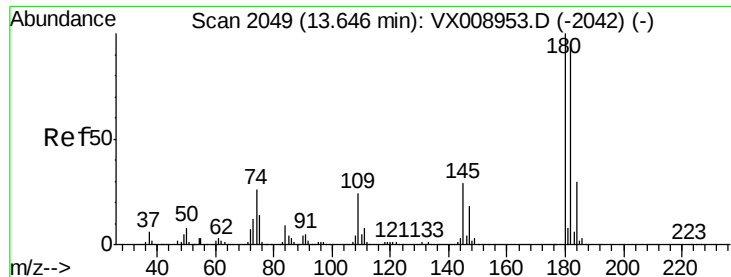
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.034 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.6	41.2	123.6
157	94.1	52.5	157.6





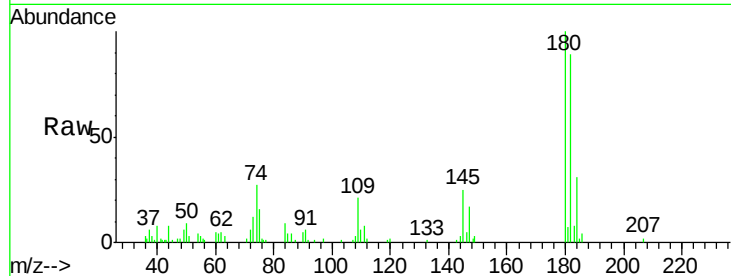
#93
 1,2,4-Trichlorobenzene
 Concen: 2.040 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2019

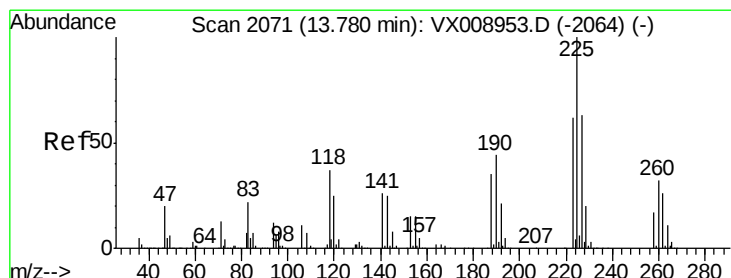
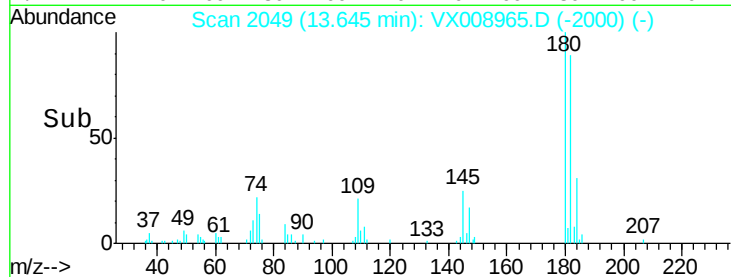
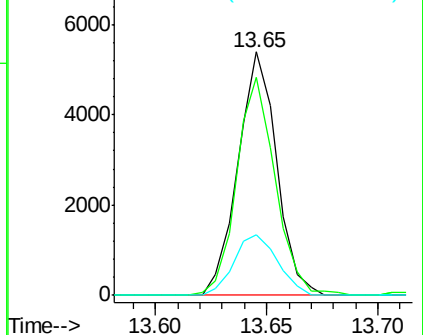
Tot Ion	Ratio	Resp	Lower	Upper
180	100	6519		
182	89.3		47.6	142.9
145	28.1		14.8	44.4

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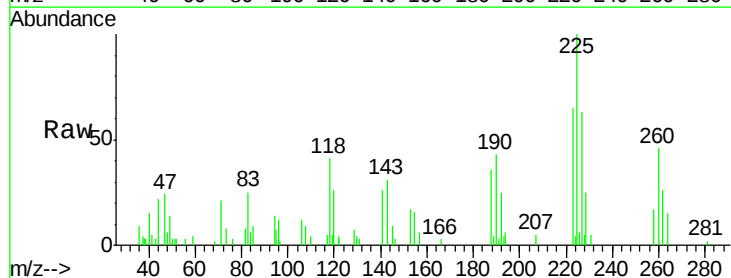


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

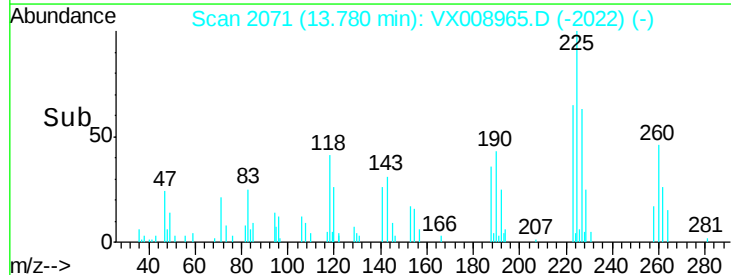
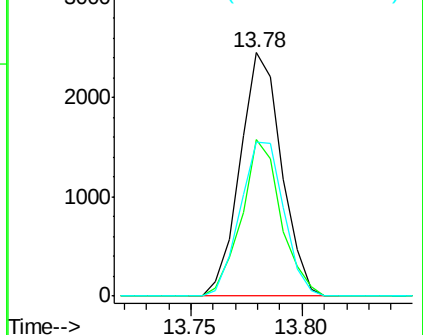


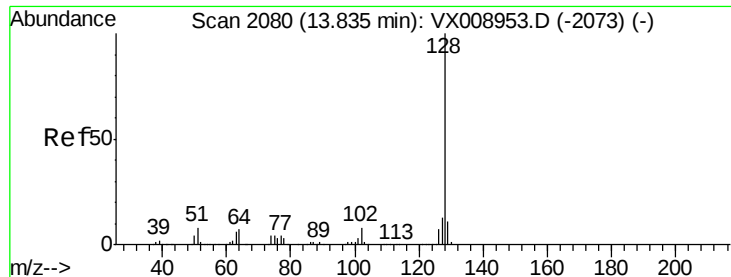
#94
 Hexachlorobutadiene
 Concen: 1.996 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX008965.D
 Acq: 15 Apr 2019 17:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	3182		
223	61.0		31.1	93.2
227	66.4		32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.984 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Instrument :

MSVOA_X

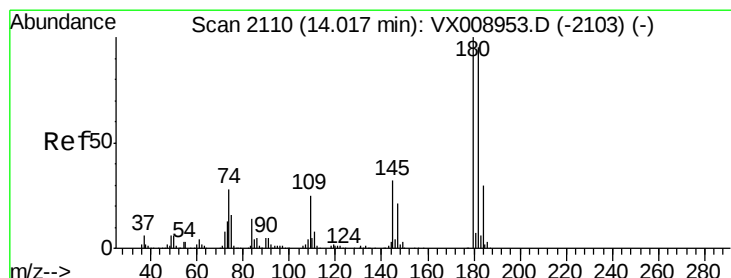
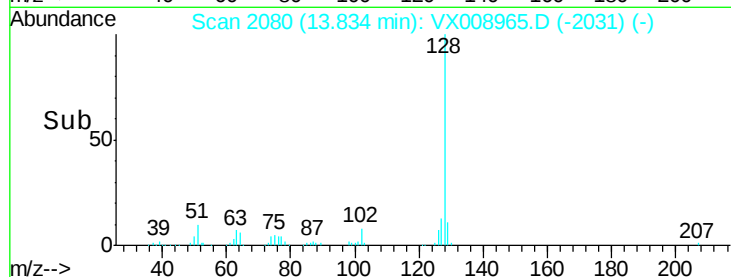
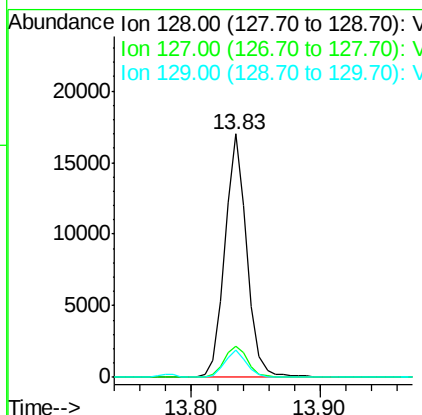
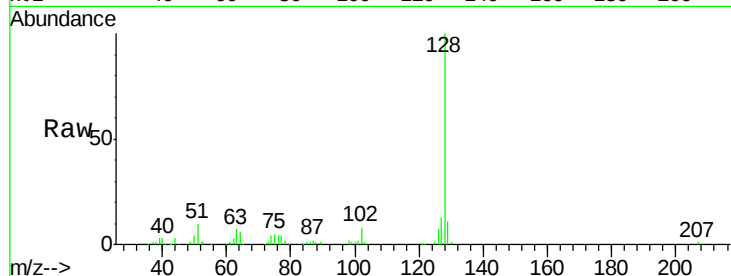
ClientSampleId :

LOQ-WATER-02-QT2-2019

Tot Ion:128	Resp:	20316
Ion Ratio	Lower	Upper
128 100		
127 14.0	10.6	16.0
129 11.1	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 2.060 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX008965.D

Acq: 15 Apr 2019 17:09

Tgt Ion:180	Resp:	6495
Ion Ratio	Lower	Upper
180 100		
182 95.5	47.8	143.4
145 32.2	15.8	47.3

