

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013096.D
 Acq On : 16 Oct 2019 15:12
 Operator : JC/SP
 Sample : K5111-08 5.0PPB LOQ
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:54:02 PM

Quant Time: Oct 17 03:39:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	30376	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	172482	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	151141	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	69470	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	11.14	95	76156	28.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.97%
63) Toluene-d8	8.71	98	209059	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	10475	5.115 ug/l	97
3) Chloromethane	1.32	50	10015	4.982 ug/l	95
4) Vinyl Chloride	1.40	62	9849	4.912 ug/l	93
5) Bromomethane	1.63	94	5417	5.781 ug/l	97
6) Chloroethane	1.71	64	6375m	5.171 ug/l	
7) Trichlorofluoromethane	1.92	101	14650	4.972 ug/l	96
8) Diethyl Ether	2.18	74	5384	4.966 ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.37	101	9163	4.934 ug/l	98
10) 1,1-Dichloroethene	2.36	96	9321	5.102 ug/l	97
11) Methyl Iodide	2.50	142	7388	3.306 ug/l	95
12) Methyl Acetate	2.76	43	13505	5.286 ug/l	97
13) Acrolein	2.28	56	8201	22.307 ug/l	91
14) Acrylonitrile	3.13	53	26445	24.798 ug/l	99
15) Acetone	2.43	58	8327	22.056 ug/l	85
16) Carbon Disulfide	2.56	76	24207	4.899 ug/l #	94
17) Allyl chloride	2.72	41	14917	4.811 ug/l	98
18) Methylene Chloride	2.84	84	11080	5.331 ug/l	97
19) trans-1,2-Dichloroethene	3.15	96	10015	5.119 ug/l	89
20) Diisopropyl ether	3.84	45	30770	5.173 ug/l	92
21) 1,1-Dichloroethane	3.69	63	17491	5.099 ug/l	98
22) cis-1,2-Dichloroethene	4.58	96	11064	4.921 ug/l	97
23) tert-Butyl Alcohol	3.03	59	16937	31.435 ug/l #	100
24) Methyl tert-Butyl Ether	3.19	73	30986	4.976 ug/l	96
25) Chloroform	5.20	83	18352	5.174 ug/l	91
26) Cyclohexane	5.57	56	15718	5.042 ug/l #	98
29) 1,1-Dichloropropene	5.78	75	13983	5.315 ug/l	96
30) 2-Butanone	4.66	43	38355	24.750 ug/l	98
31) 2,2-Dichloropropane	4.57	77	14175	4.763 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	15740	5.114 ug/l	94
33) Carbon Tetrachloride	5.77	117	12468	4.722 ug/l	99
34) Benzene	6.14	78	40345	5.165 ug/l	98
35) Methacrylonitrile	5.04	41	7916m	5.209 ug/l	
36) 1,2-Dichloroethane	6.18	62	14414	5.104 ug/l	98
37) Trichloroethene	7.21	130	10427	4.997 ug/l	88
38) Methylcyclohexane	7.45	83	16279	5.056 ug/l	95
39) 1,2-Dichloropropane	7.51	63	10061	5.129 ug/l #	88
40) Dibromomethane	7.65	93	7100	5.330 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	12400	4.688	ug/l	95
42) Vinyl Acetate	3.80	43	125359	24.702	ug/l	100
43) Ethyl Acetate	4.83	43	13296	4.767	ug/l #	91
44) Isopropyl Acetate	6.43	43	22897	5.091	ug/l	97
45) 1,4-Dioxane	7.74	88	5624	101.747	ug/l #	95
46) Methyl methacrylate	7.76	41	10803	4.915	ug/l	96
47) n-amyl Acetate	10.89	43	16674	4.354	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	12696	4.337	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	14350	4.444	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	10036	4.992	ug/l	95
51) Ethyl methacrylate	9.17	69	14600	4.618	ug/l	97
52) 1,3-Dichloropropane	9.37	76	18014	5.339	ug/l	96
53) Dibromochloromethane	9.58	129	9196	4.454	ug/l	96
54) 1,2-Dibromoethane	9.67	107	10008	4.733	ug/l	91
55) 2-Chloroethyl vinyl ether	8.31	63	34345	24.691	ug/l	100
56) Bromoform	10.85	173	5664	3.943	ug/l	95
58) 4-Methyl-2-Pentanone	8.64	43	71233	25.902	ug/l	99
59) 2-Hexanone	9.49	43	51349	23.927	ug/l	100
61) Tetrachloroethene	9.33	164	9976	5.181	ug/l	87
62) Toluene	8.78	91	43461	5.291	ug/l	99
64) Chlorobenzene	10.14	112	26392	5.056	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.21	131	9065	4.728	ug/l	97
66) Ethyl Benzene	10.25	91	46449	4.955	ug/l	97
67) m/p-Xylenes	10.35	106	34806	9.868	ug/l	97
68) o-Xylene	10.70	106	17178	5.001	ug/l	99
69) Styrene	10.71	104	26605	4.500	ug/l	98
70) Isopropylbenzene	11.01	105	44856	4.890	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	13990	4.686	ug/l	95
72) 1,2,3-Trichloropropane	11.29	75	13960m	5.624	ug/l	
73) Bromobenzene	11.25	156	10588	4.839	ug/l	100
74) n-propylbenzene	11.35	91	48647	4.748	ug/l	100
75) 2-Chlorotoluene	11.42	91	32002	5.098	ug/l	96
76) 1,3,5-Trimethylbenzene	11.50	105	37304	4.779	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3609	3.757	ug/l	89
78) 4-Chlorotoluene	11.51	91	34667	4.776	ug/l	99
79) tert-butylbenzene	11.76	119	36392	4.956	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	37022	4.756	ug/l	97
81) sec-Butylbenzene	11.94	105	40856	4.619	ug/l	100
82) p-Isopropyltoluene	12.06	119	36443	4.518	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	19014	4.795	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	19623	4.920	ug/l	99
85) n-Butylbenzene	12.38	91	28356	4.119	ug/l	98
86) Hexachloroethane	12.59	117	5912	4.230	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	19140	4.894	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	3144	4.586	ug/l	90
89) 1,2,4-Trichlorobenzene	13.64	180	11080	4.540	ug/l	96
90) Hexachlorobutadiene	13.77	225	5017	4.332	ug/l	90
91) Naphthalene	13.83	128	34572	4.165	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	11300	4.623	ug/l	97

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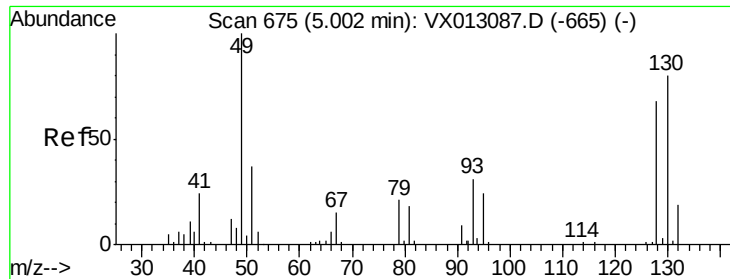
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

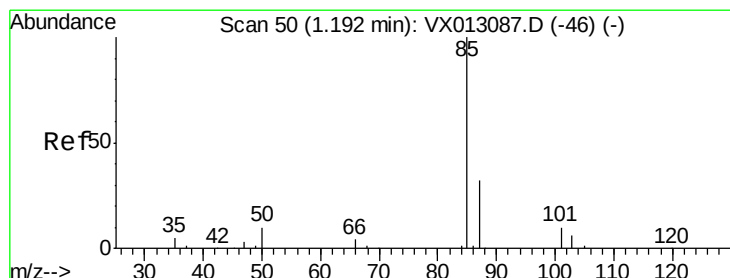
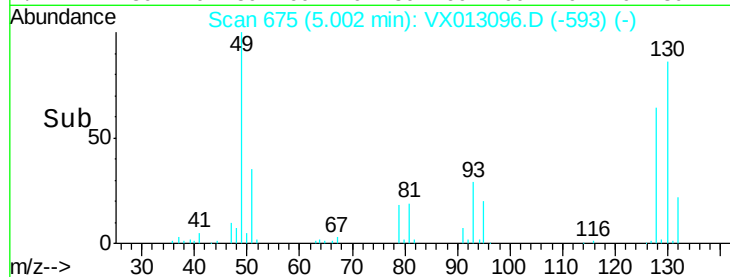
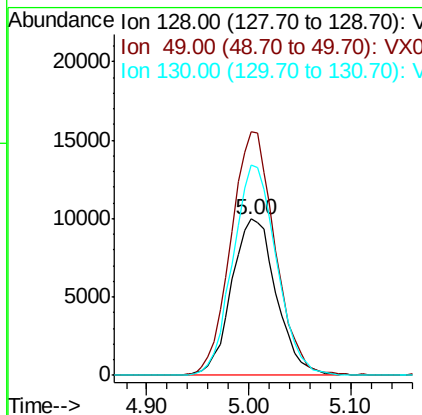
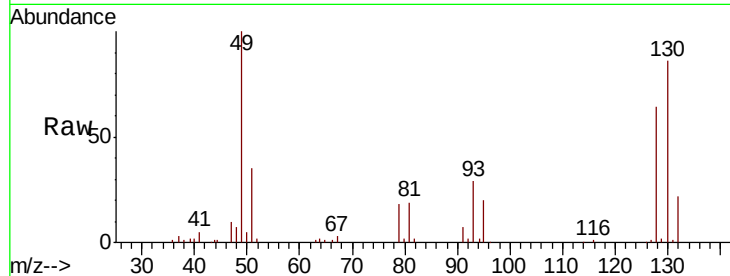
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	30376
Ion	Ratio	Lower	Upper
128	100		
49	153.6	0.0	382.3
130	131.6	0.0	321.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 5.115 ug/l

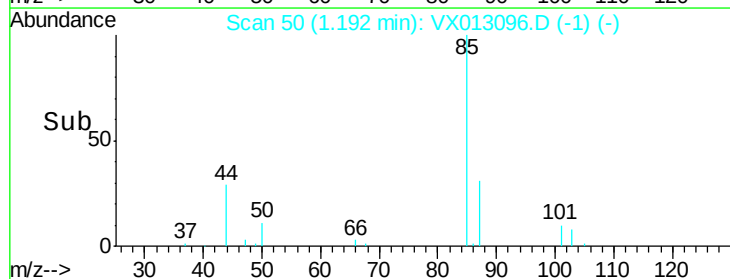
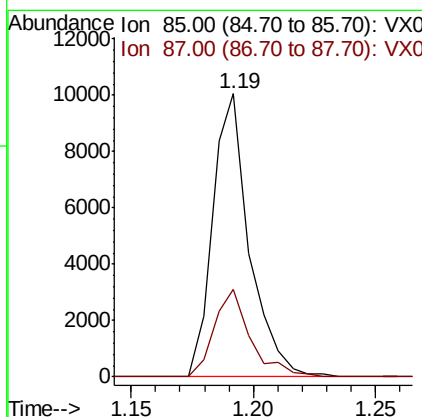
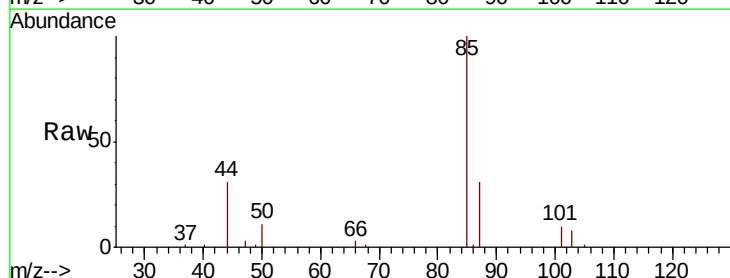
RT: 1.19 min Scan# 50

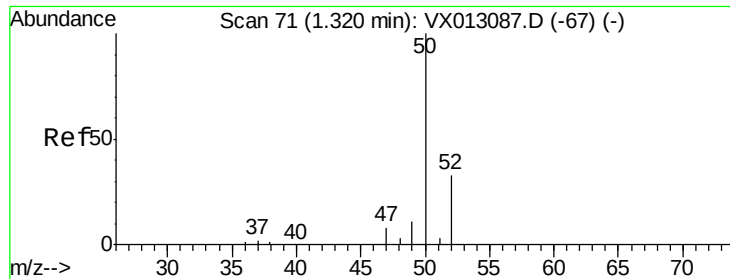
Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion:	85	Resp:	10475
Ion	Ratio	Lower	Upper
85	100		
87	30.8	16.2	48.5





#3

Chloromethane

Concen: 4.982 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 10015

Ion Ratio Lower Upper

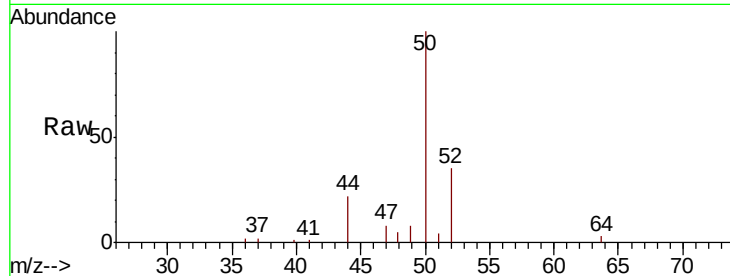
50 100

52 35.3 26.0 39.0

Manual Integrations
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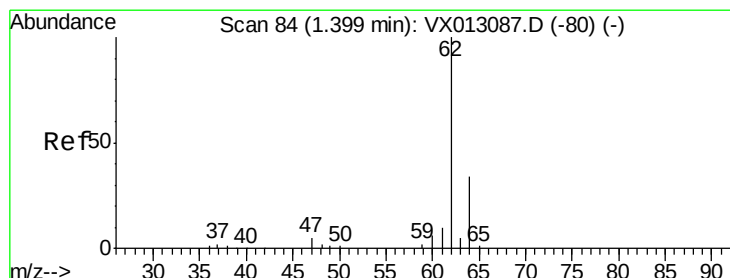
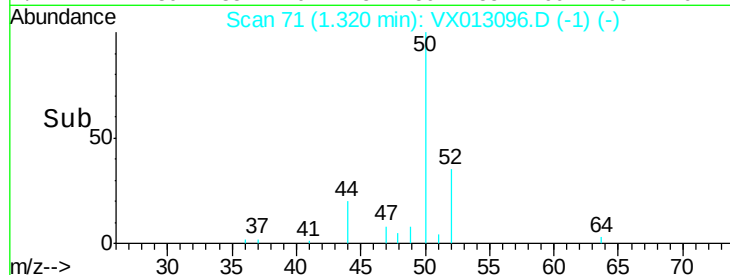
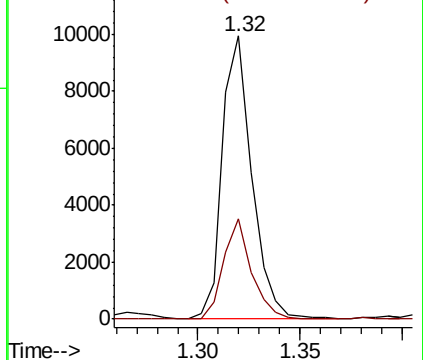
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Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 4.912 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013096.D

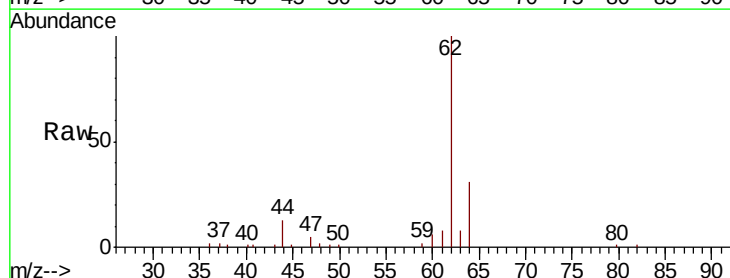
Acq: 16 Oct 2019 15:12

Tgt Ion: 62 Resp: 9849

Ion Ratio Lower Upper

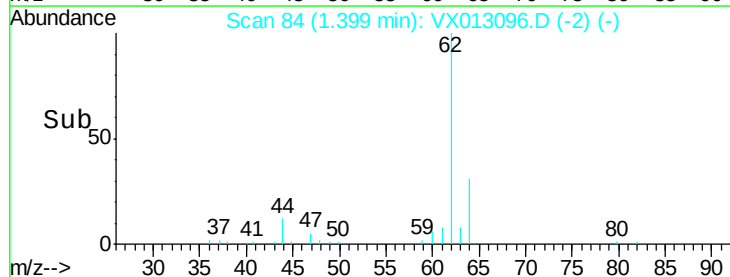
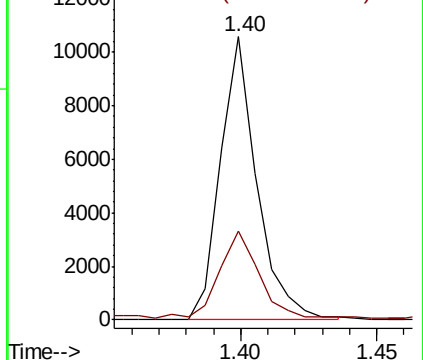
62 100

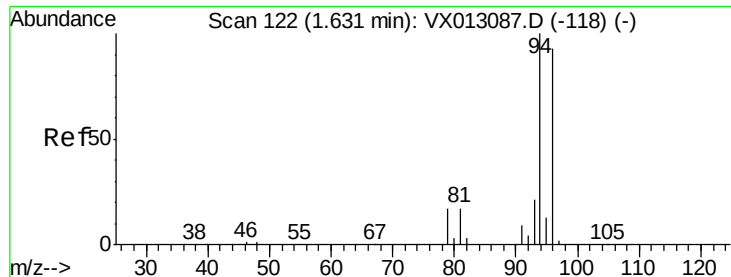
64 30.4 27.4 41.0



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 5.781 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 5417

Ion Ratio Lower Upper

94 100

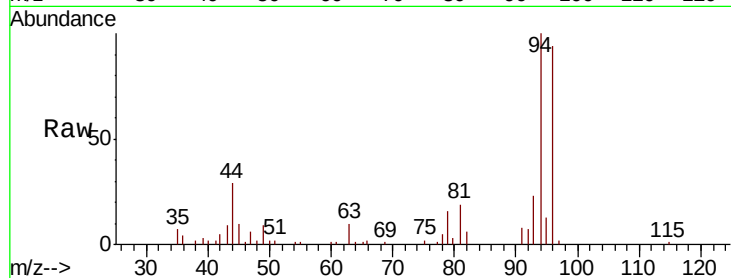
96 95.6 74.2 111.4

Manual Integrations

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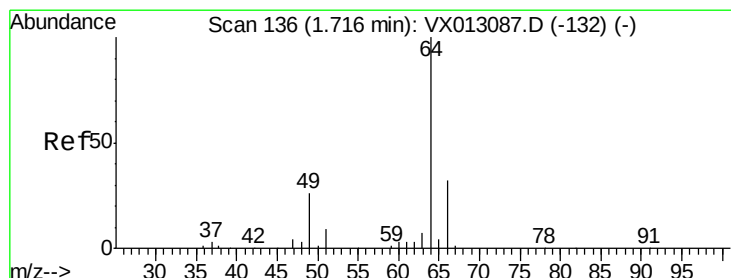
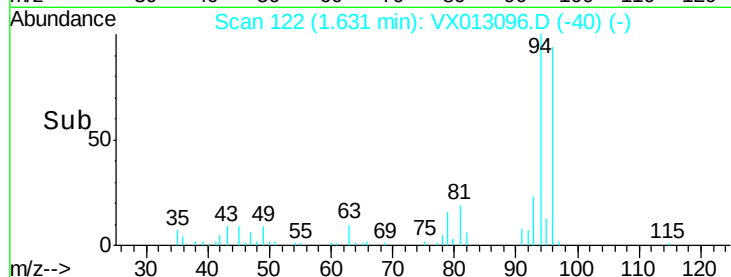
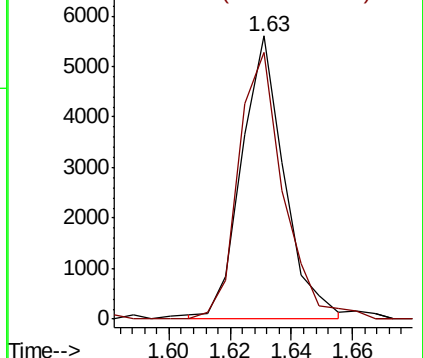
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Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 5.171 ug/l m

RT: 1.71 min Scan# 135

Delta R.T. -0.01 min

Lab File: VX013096.D

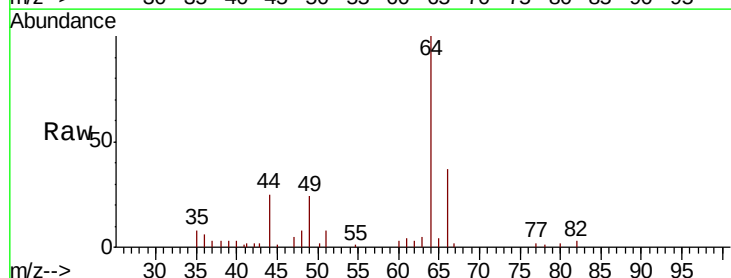
Acq: 16 Oct 2019 15:12

Tgt Ion: 64 Resp: 6375

Ion Ratio Lower Upper

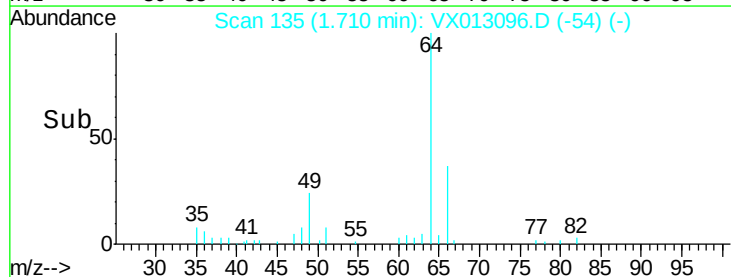
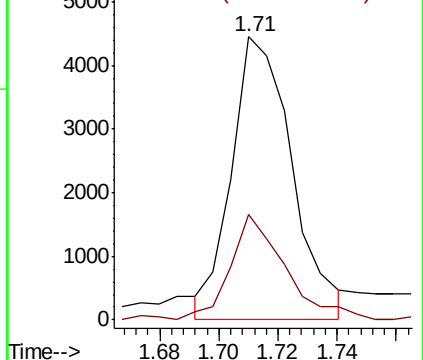
64 100

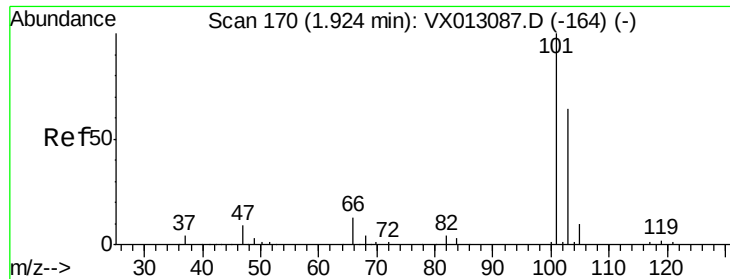
66 37.2 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#7

Trichlorofluoromethane

Concen: 4.972 ug/l

RT: 1.92 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:101 Resp: 14650

Ion Ratio Lower Upper

101 100

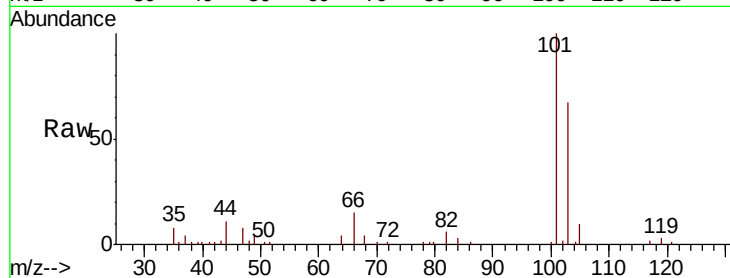
103 66.7 50.9 76.3

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

10000

8000

6000

4000

2000

0

1.85

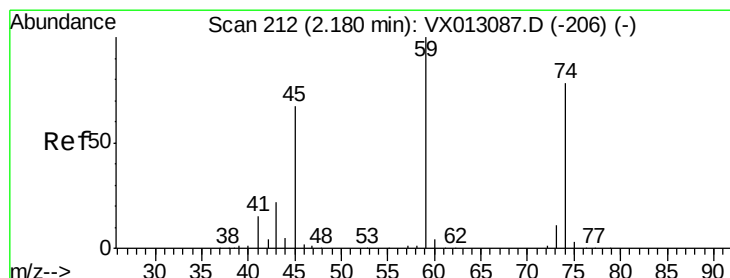
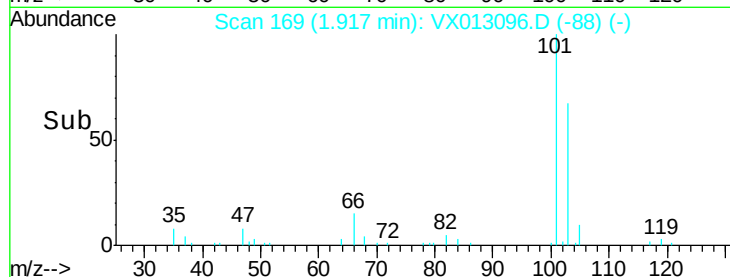
1.90

1.92

1.95

2.00

Time-->



#8

Diethyl Ether

Concen: 4.966 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013096.D

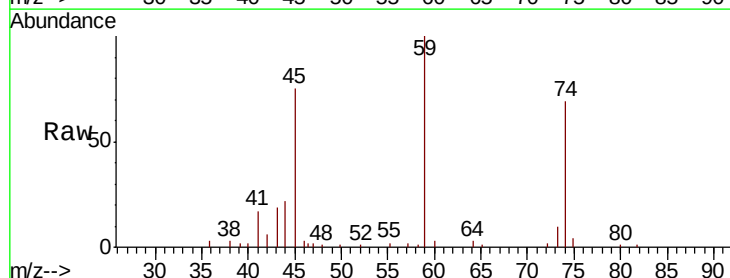
Acq: 16 Oct 2019 15:12

Tgt Ion: 74 Resp: 5384

Ion Ratio Lower Upper

74 100

45 103.7 18.2 163.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

4000

3000

2000

1000

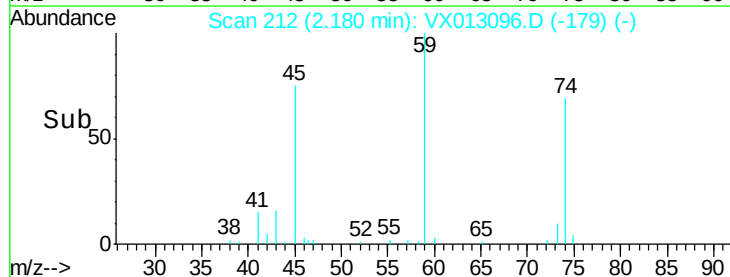
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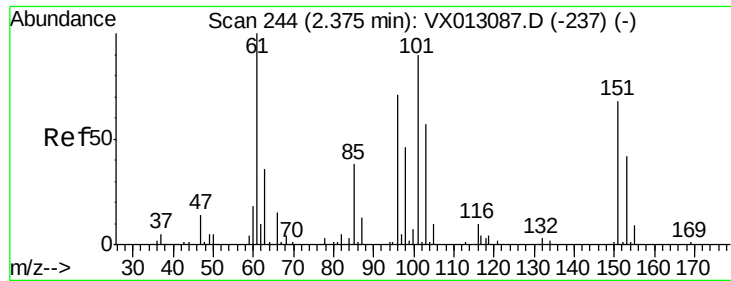
2.15

2.18

2.20

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.934 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

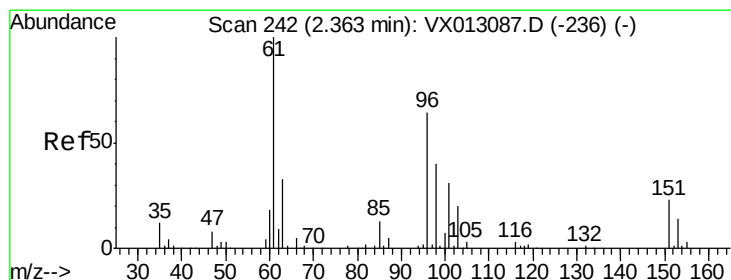
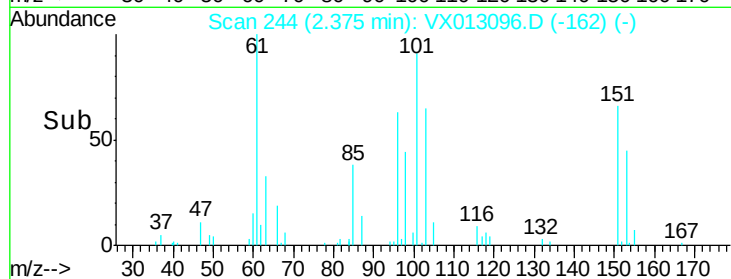
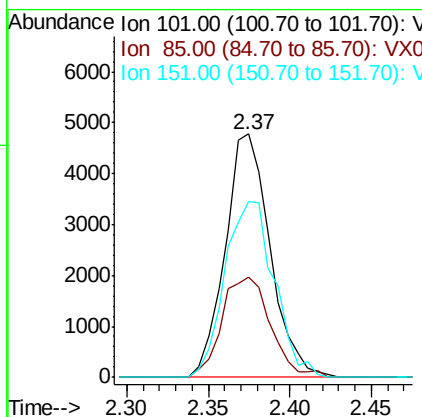
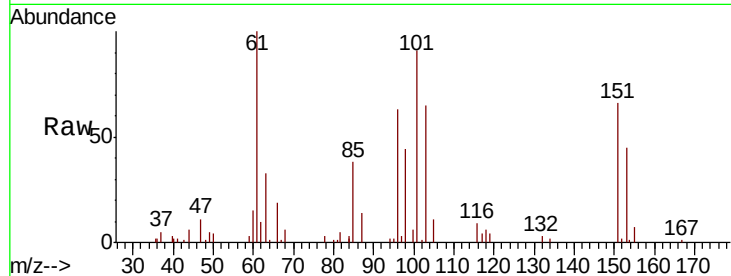
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	101	Resp:	9163
Ion Ratio	Lower	Upper	
101	100		
85	44.2	0.0	85.2
151	79.4	0.0	157.0

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 5.102 ug/l

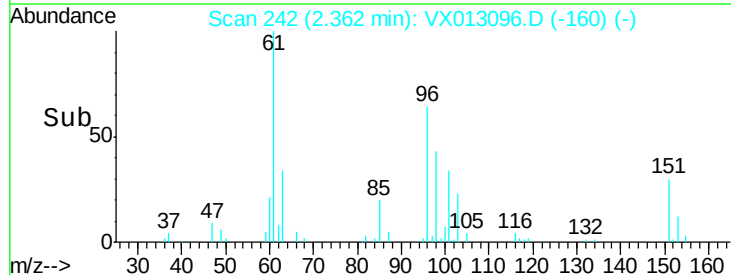
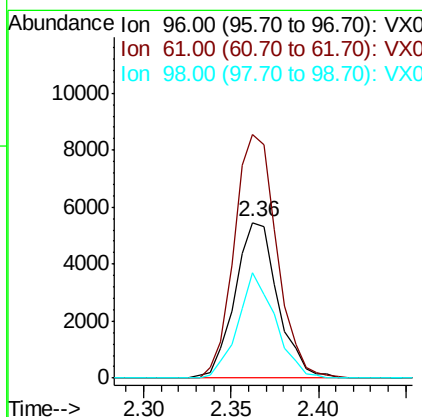
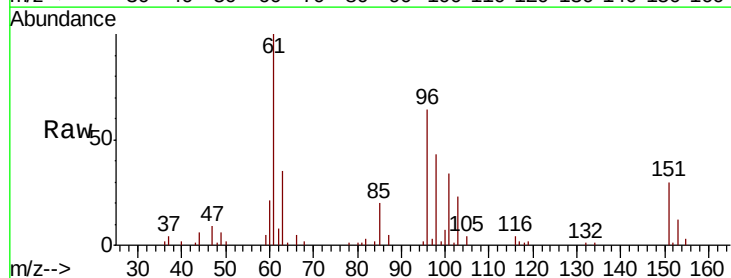
RT: 2.36 min Scan# 242

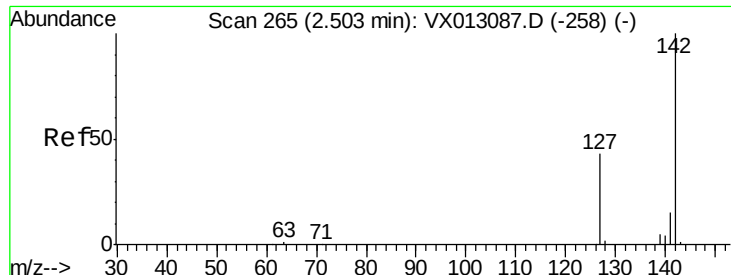
Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion:	96	Resp:	9321
Ion Ratio	Lower	Upper	
96	100		
61	156.3	124.2	186.2
98	68.0	50.2	75.2





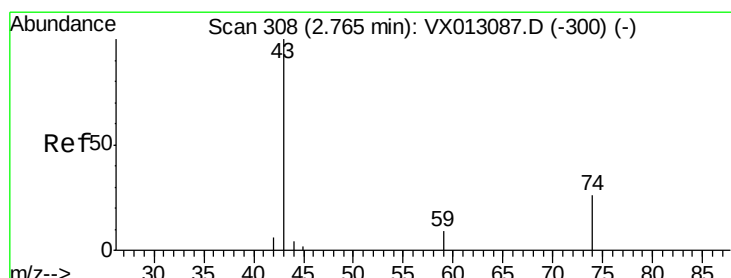
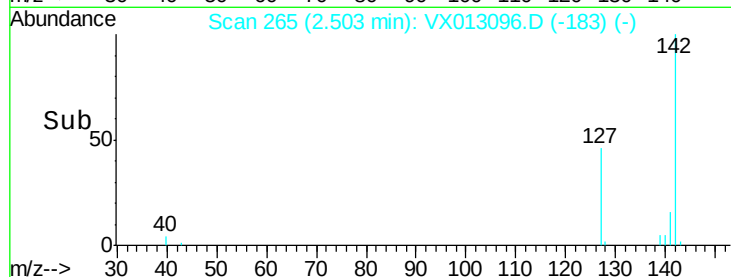
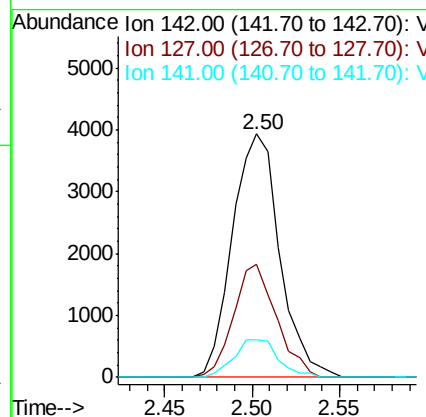
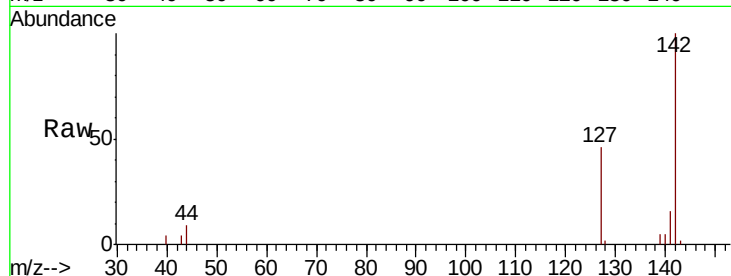
#11
Methyl Iodide
Concen: 3.306 ug/l
RT: 2.50 min Scan# 265
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	46.4	21.4	64.2
141	15.7	7.3	21.9

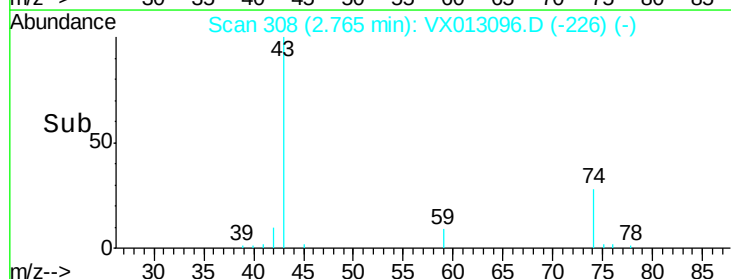
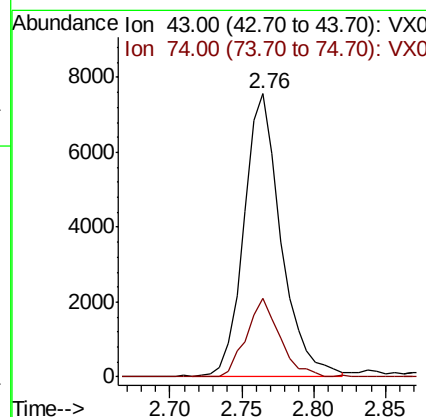
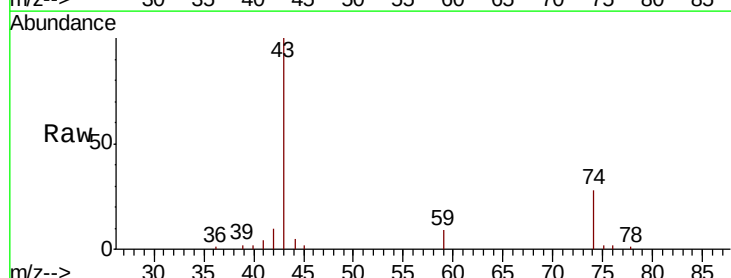
Manual Integrations
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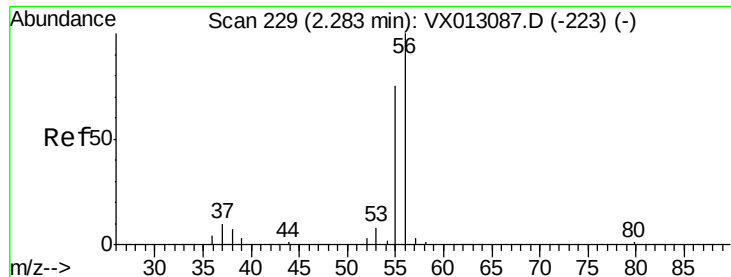
MMDadoda
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#12
Methyl Acetate
Concen: 5.286 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.7	20.9	31.3





#13

Acrolein

Concen: 22.307 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 8201

Ion Ratio Lower Upper

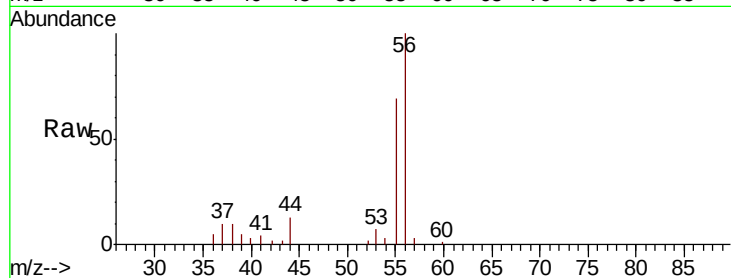
56 100

55 65.0 57.8 86.8

Manual Integrations
APPROVED

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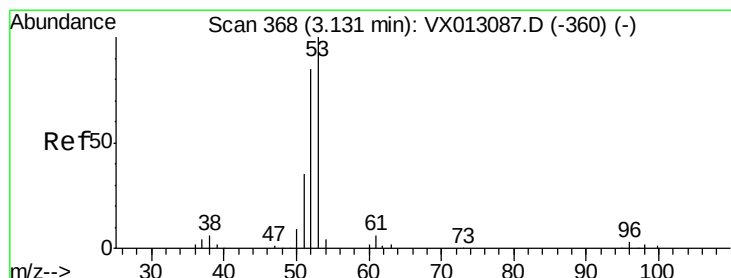
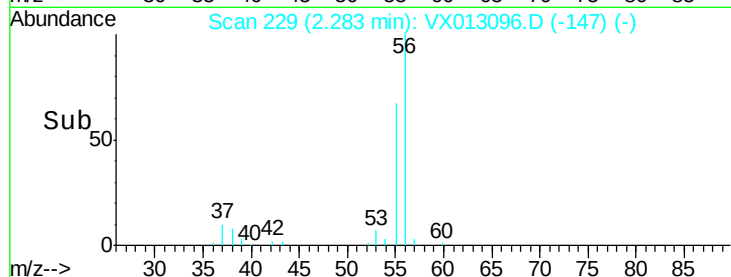


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

Time-->



#14

Acrylonitrile

Concen: 24.798 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

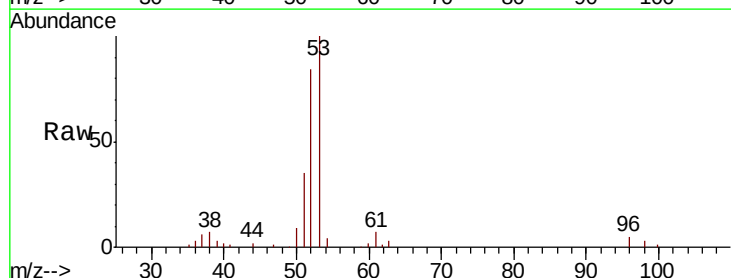
Tgt Ion: 53 Resp: 26445

Ion Ratio Lower Upper

53 100

52 83.7 41.4 124.2

51 36.9 18.1 54.4



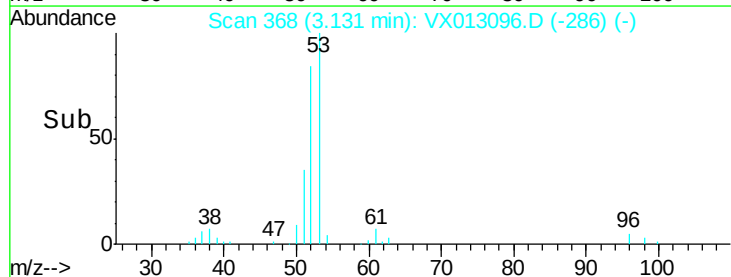
Abundance Ion 53.00 (52.70 to 53.70): VX0

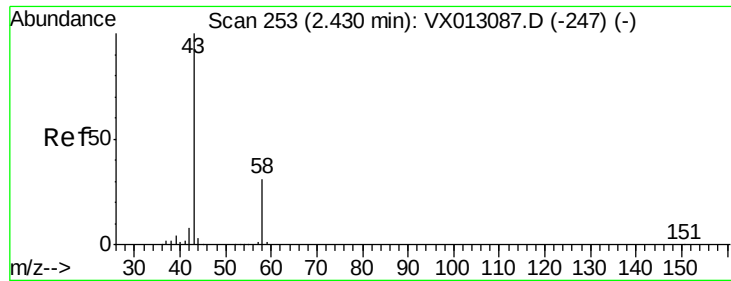
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

3.13

Time-->





#15

Acetone

Concen: 22.056 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 58 Resp: 8327

Ion Ratio Lower Upper

58 100

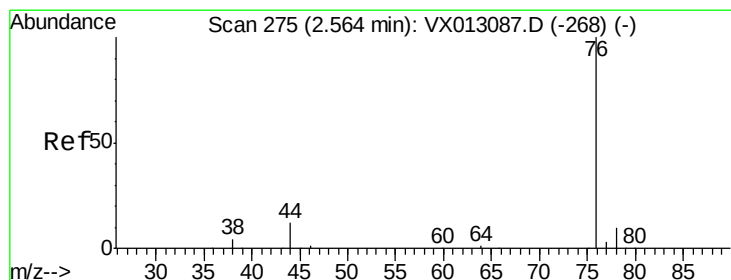
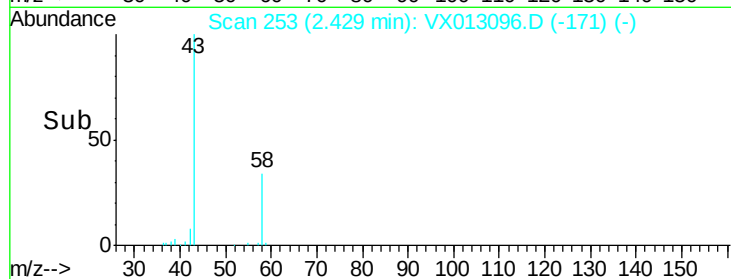
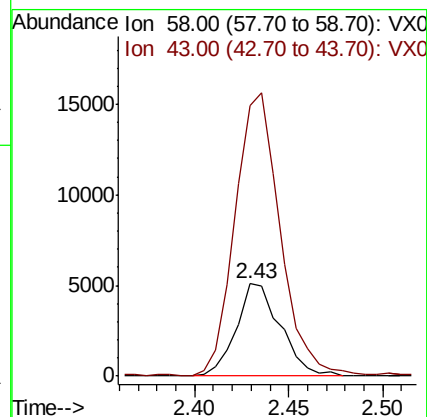
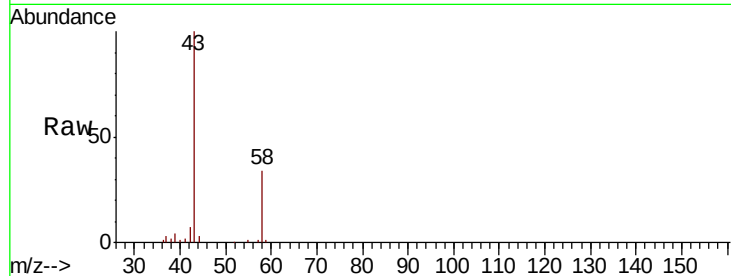
43 293.5 259.5 389.3

Manual Integrations

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#16

Carbon Disulfide

Concen: 4.899 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013096.D

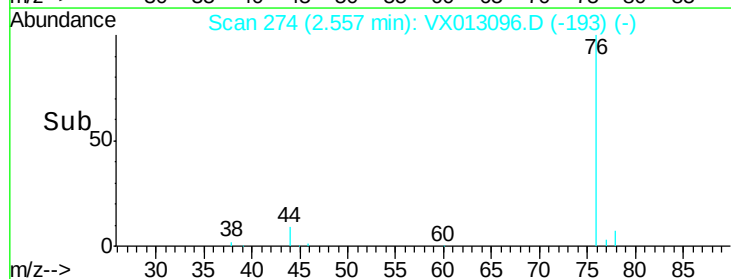
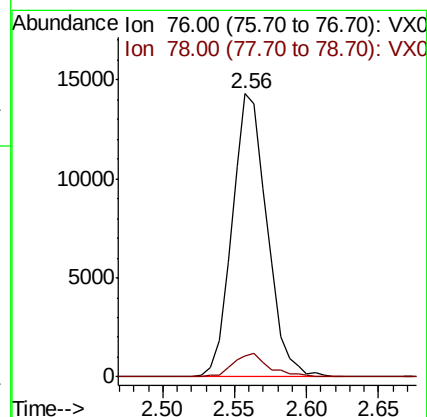
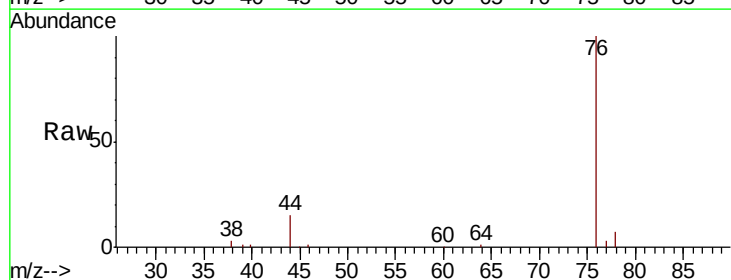
Acq: 16 Oct 2019 15:12

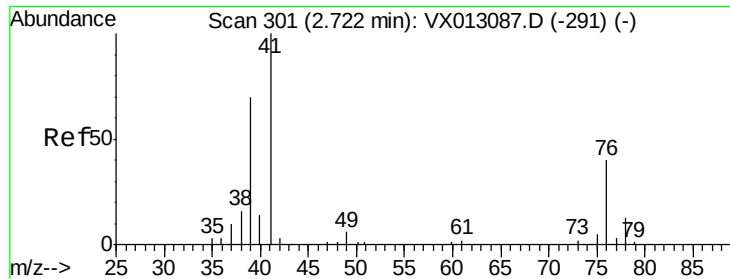
Tgt Ion: 76 Resp: 24207

Ion Ratio Lower Upper

76 100

78 7.3 7.8 11.6#





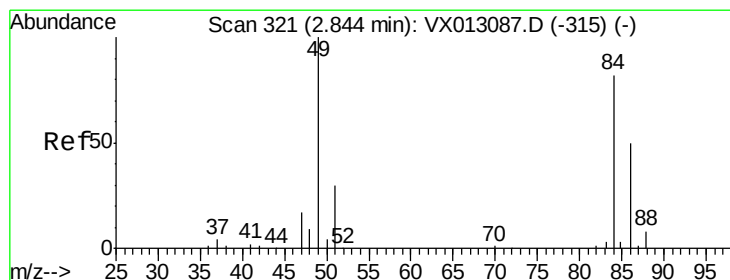
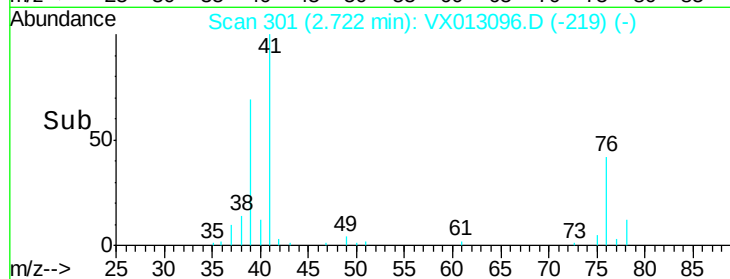
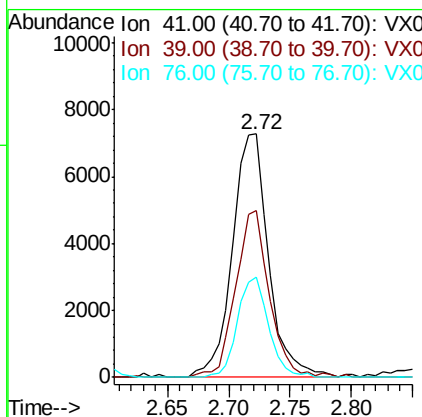
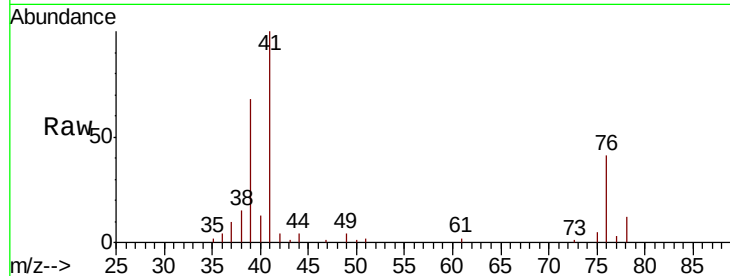
#17
Allvl chloride
Concen: 4.811 ug/l
RT: 2.72 min Scan# 301
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.4	34.8	104.5
76	41.3	20.2	60.5

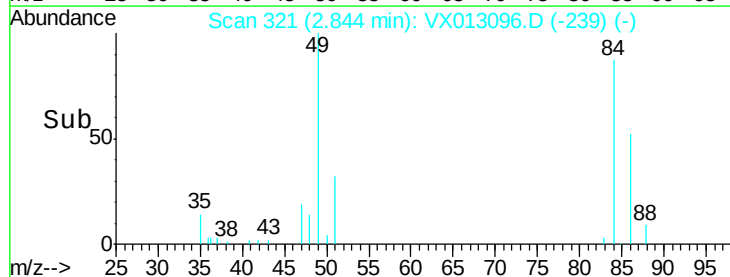
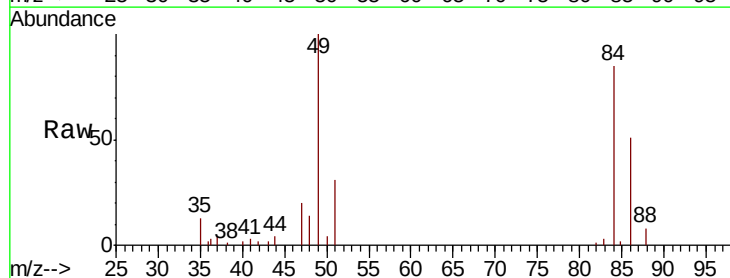
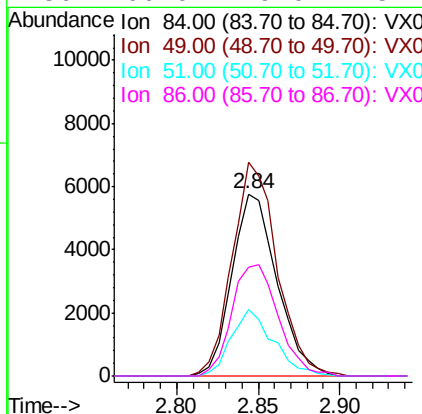
Manual Integrations
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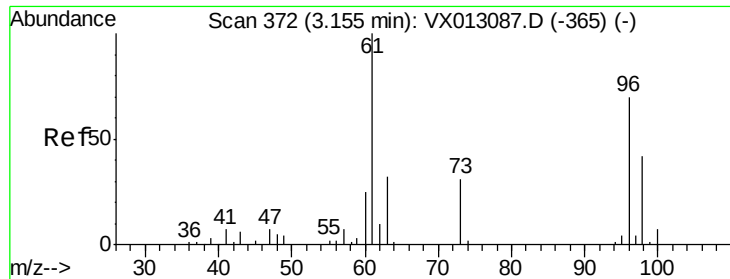
MMDadoda
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#18
Methylene Chloride
Concen: 5.331 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.5	97.8	146.6
51	36.6	29.2	43.8
86	60.0	49.0	73.4





#19

trans-1,2-Dichloroethene

Concen: 5.119 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 96 Resp: 10015

Ion Ratio Lower Upper

96 100

61 126.7 113.9 170.9

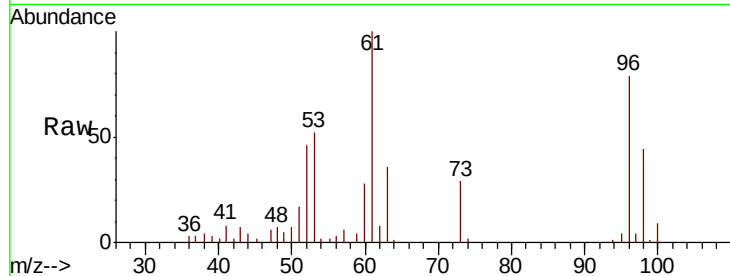
98 56.2 48.1 72.1

Manual Integrations

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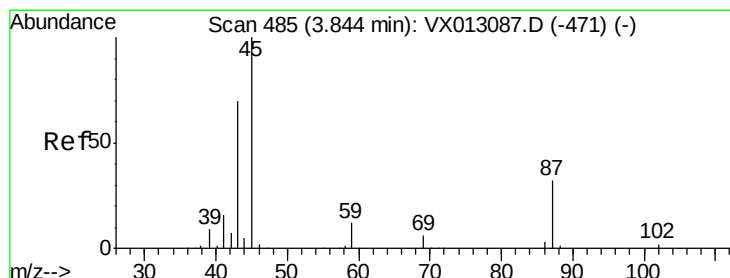
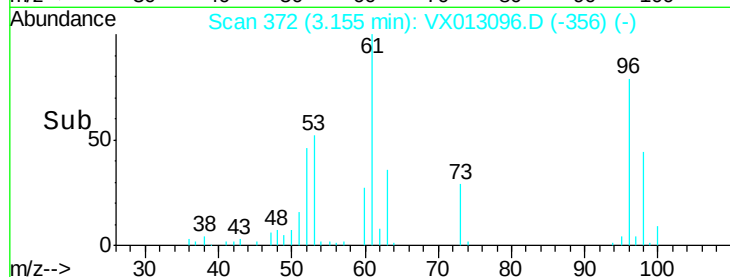
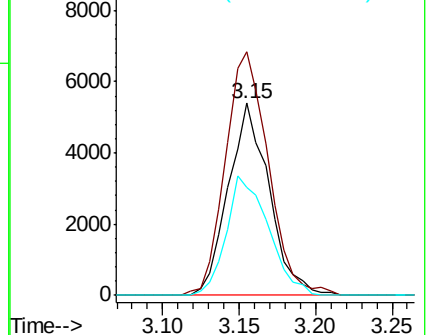
10/18/2019 4:54:02 PM



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#20

Diisopropyl ether

Concen: 5.173 ug/l

RT: 3.84 min Scan# 485

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion: 45 Resp: 30770

Ion Ratio Lower Upper

45 100

43 79.5 57.5 86.3

87 27.4 25.3 37.9

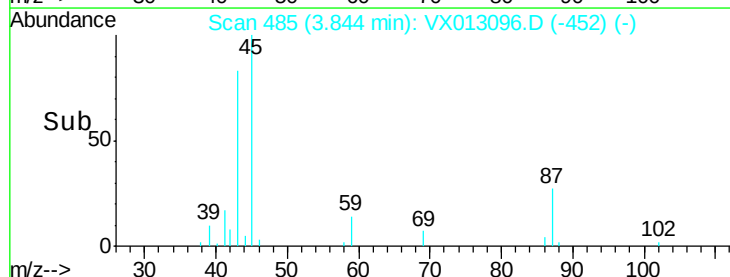
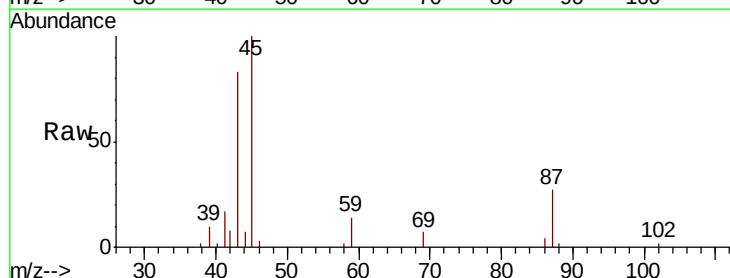
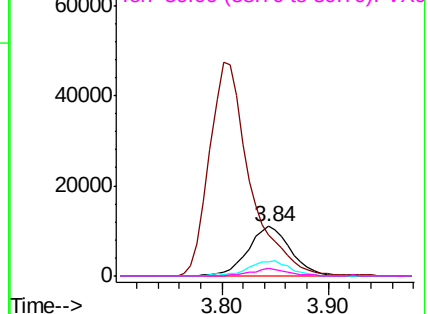
59 14.3 9.7 14.5

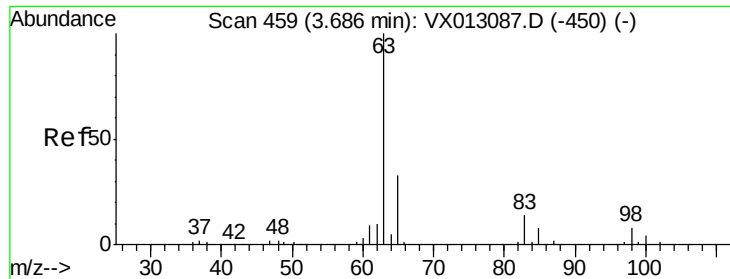
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#21

1,1-Dichloroethane

Concen: 5.099 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

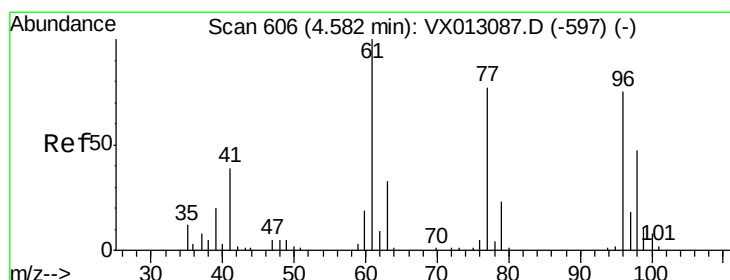
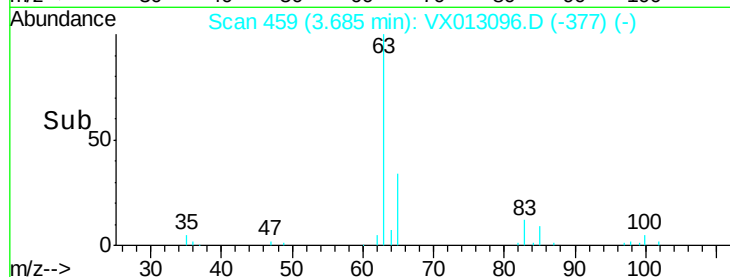
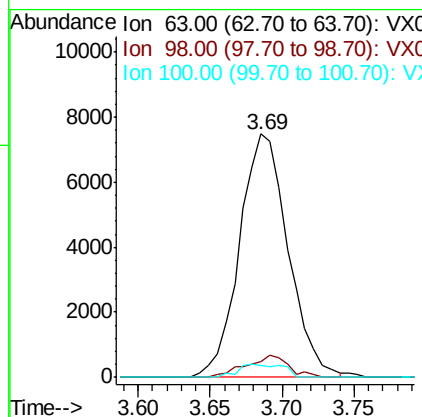
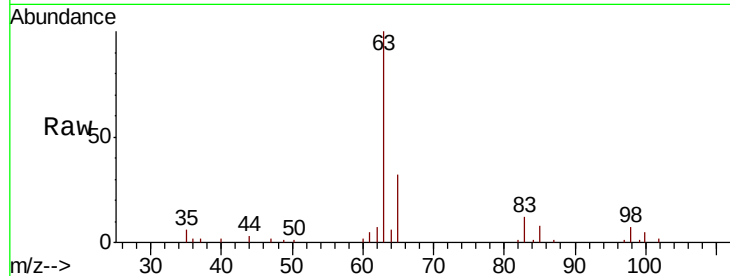
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	63	Resp:	17491
Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.4
100	5.0	2.1	6.5

Manual Integrations
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#22

cis-1,2-Dichloroethene

Concen: 4.921 ug/l

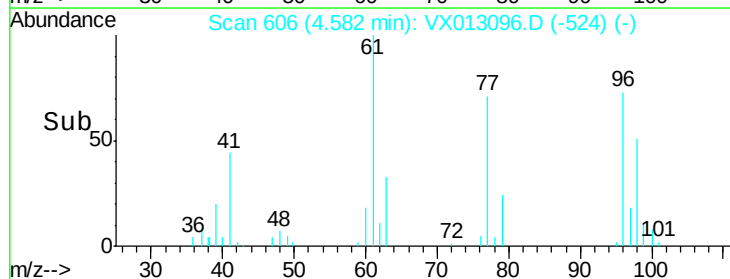
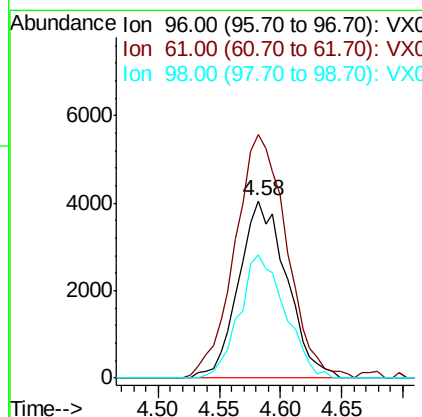
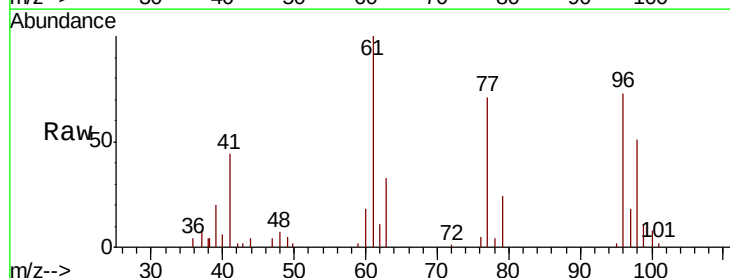
RT: 4.58 min Scan# 606

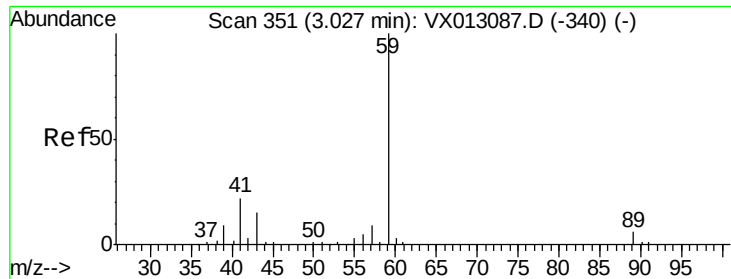
Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion:	96	Resp:	11064
Ion	Ratio	Lower	Upper
96	100		
61	148.2	115.0	172.4
98	66.1	51.5	77.3





#23

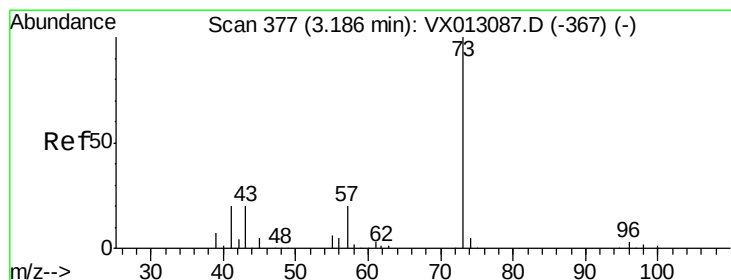
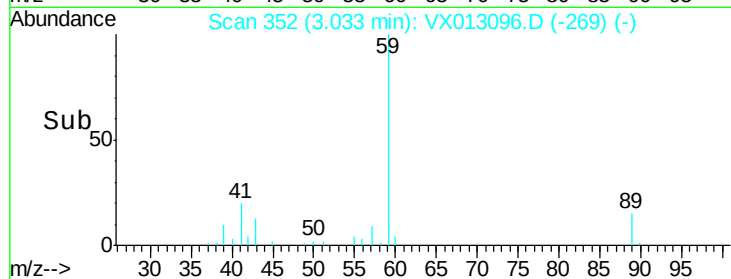
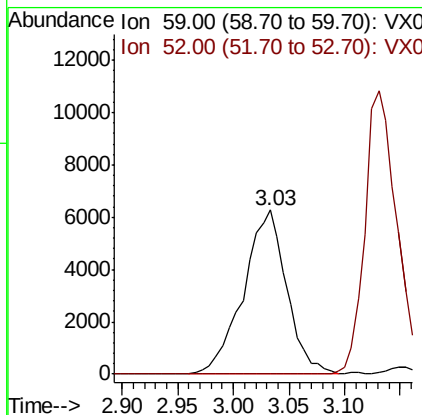
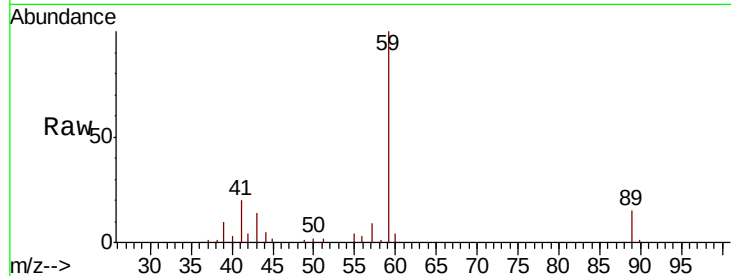
tert-Butyl Alcohol
Concen: 31.435 ug/l
RT: 3.03 min Scan# 352
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 59 Resp: 16937
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

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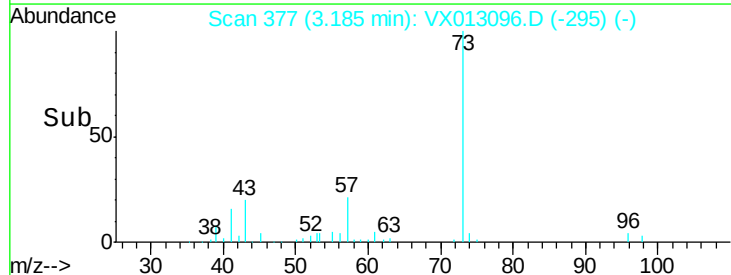
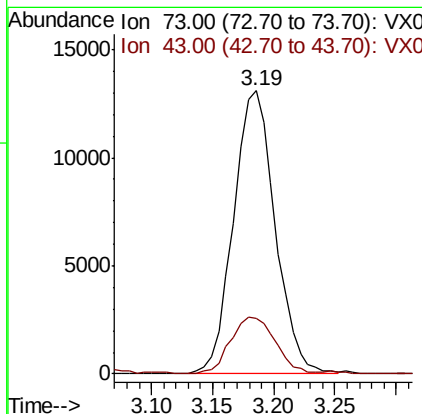
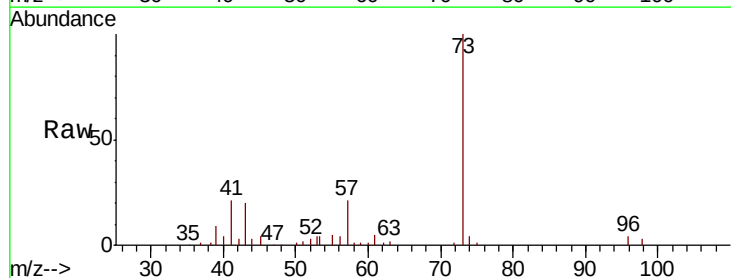
MMDadoda
10/18/2019 4:54:02 PM

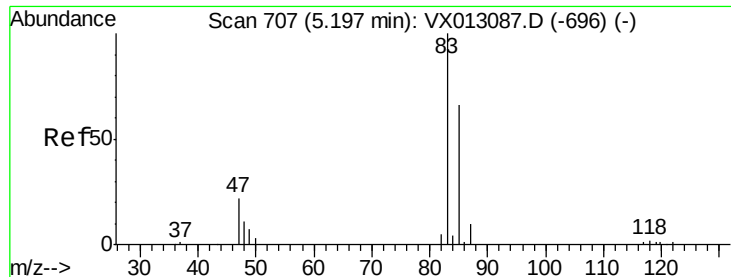


#24

Methyl tert-Butyl Ether
Concen: 4.976 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion: 73 Resp: 30986
Ion Ratio Lower Upper
73 100
43 21.6 15.8 23.8





#25

Chloroform

Concen: 5.174 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 83 Resp: 18352

Ion Ratio Lower Upper

83 100

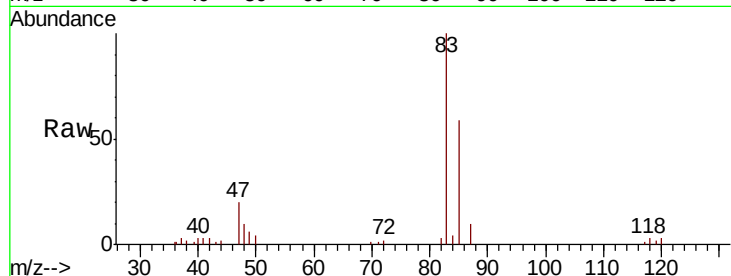
85 58.9 53.0 79.6

Manual Integrations

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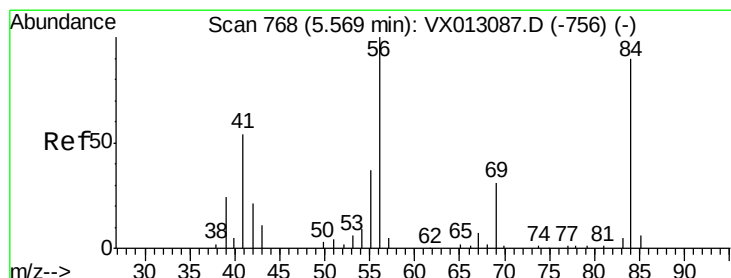
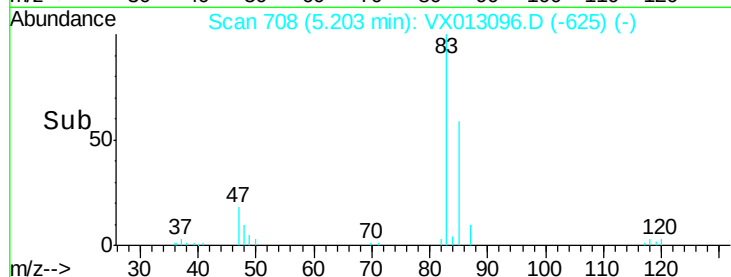
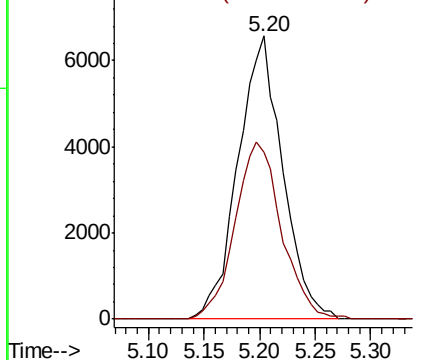
MMDadoda

10/18/2019 4:54:02 PM



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 5.042 ug/l

RT: 5.57 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

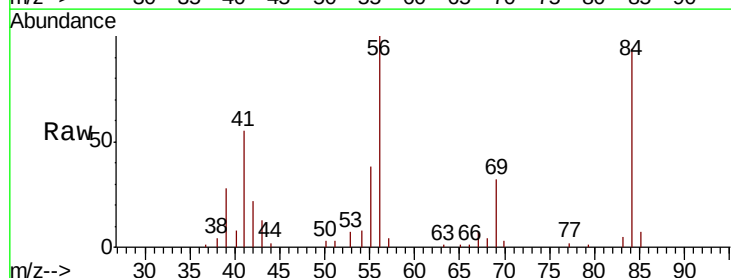
Tgt Ion: 56 Resp: 15718

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

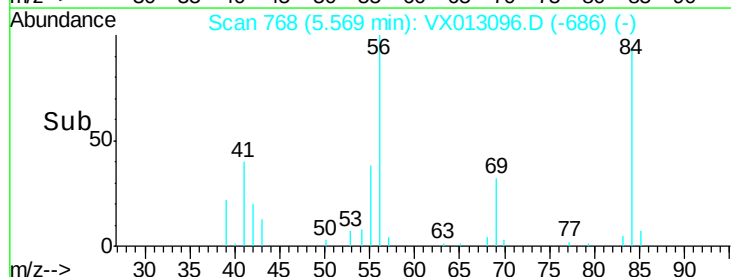
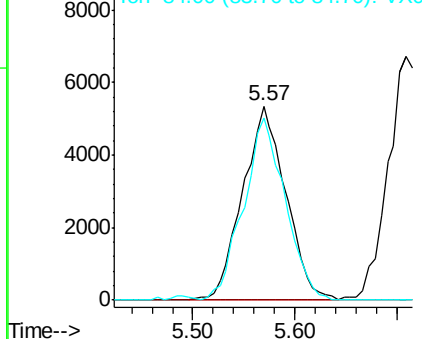
84 91.0 71.3 106.9

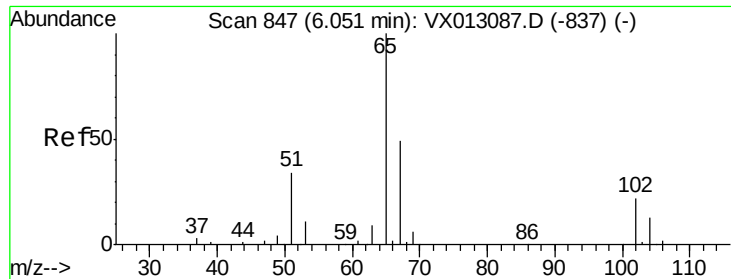


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 29.824 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 65 Resp: 69470

Ion Ratio Lower Upper

65 100

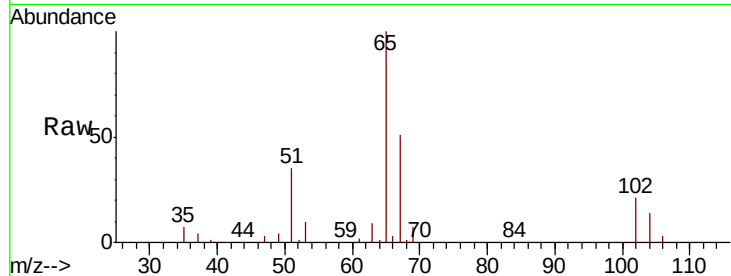
67 53.1 41.2 61.8

Manual Integrations

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Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

30000

25000

20000

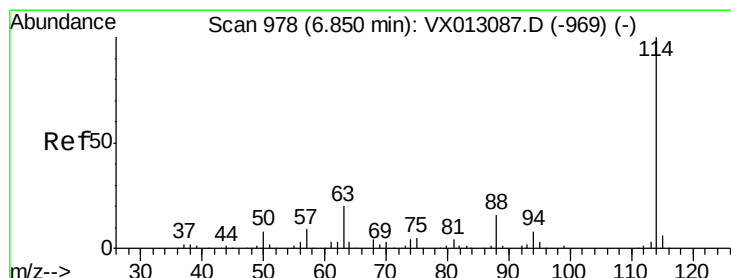
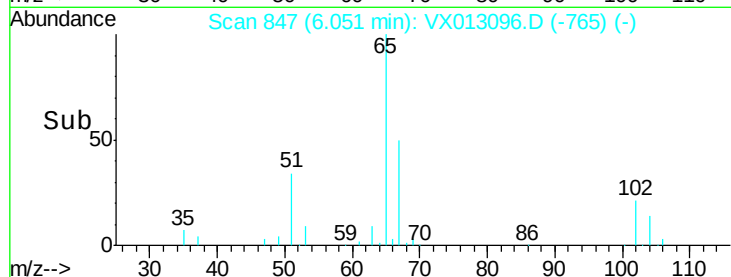
15000

10000

5000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

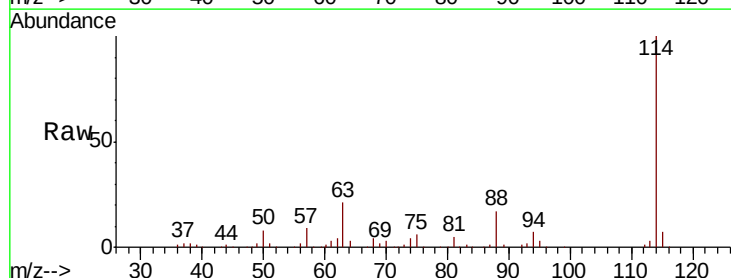
Tgt Ion: 114 Resp: 172482

Ion Ratio Lower Upper

114 100

63 20.6 16.5 24.7

88 16.9 13.6 20.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

100000

80000

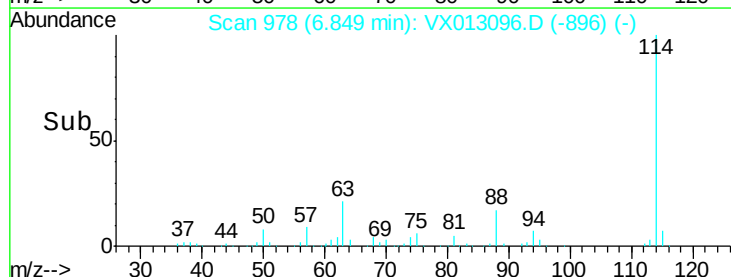
60000

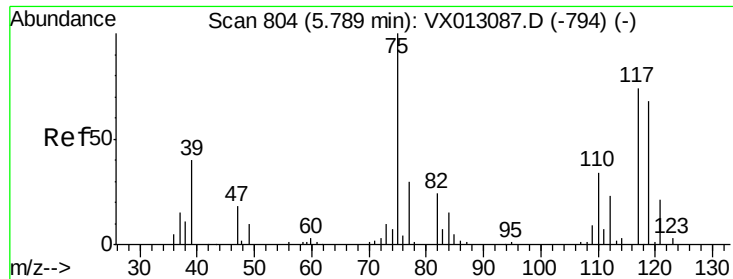
40000

20000

0

Time-->





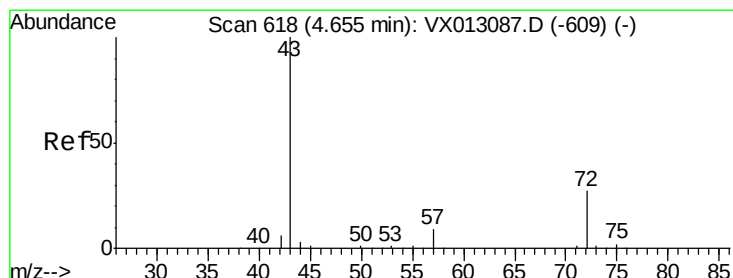
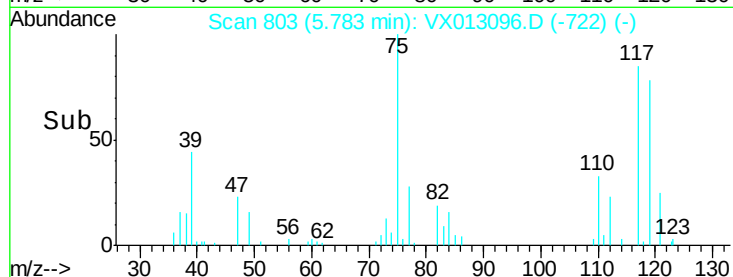
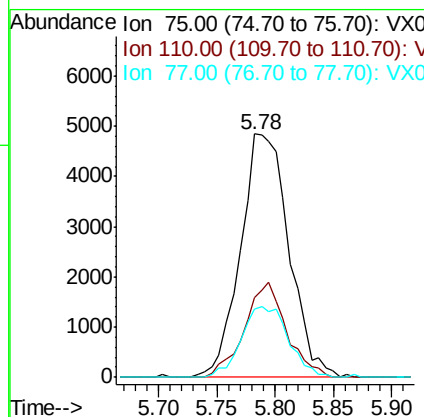
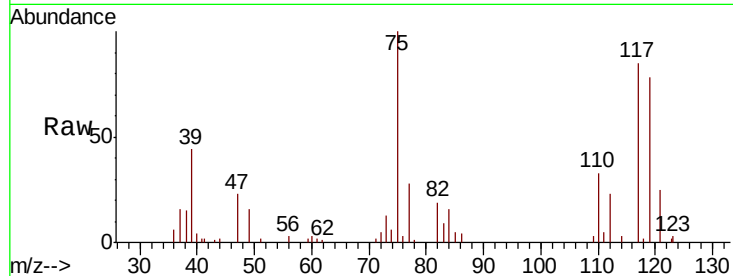
#29
 1,1-Dichloropropene
 Concen: 5.315 ug/l
 RT: 5.78 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
110	34.0	0.0	72.2
77	28.5	0.0	62.8

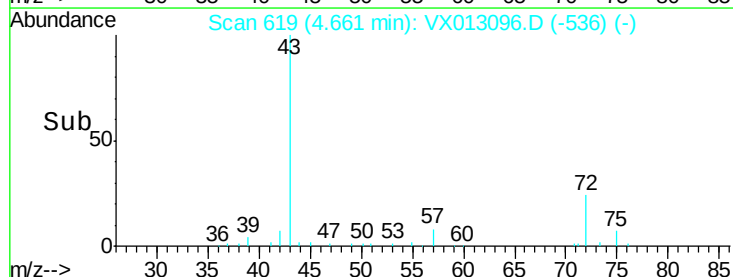
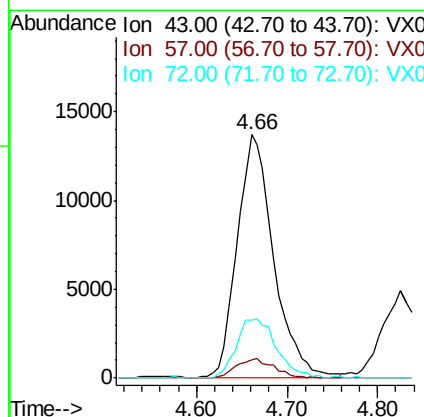
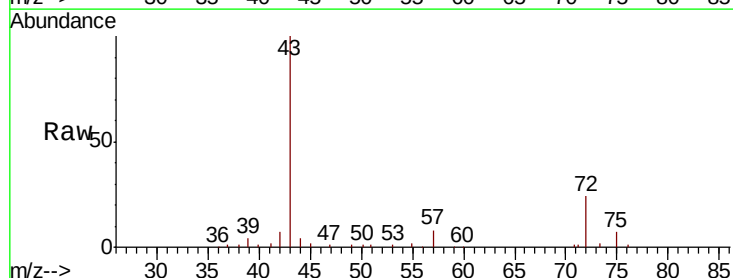
Manual Integrations
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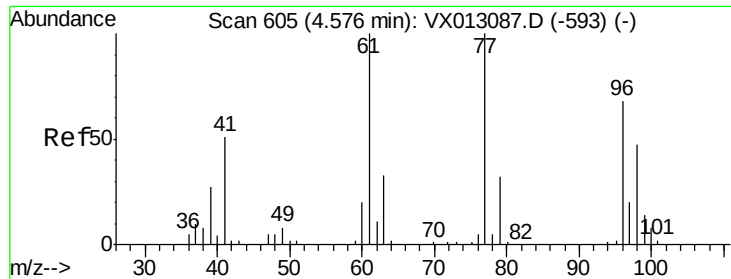
MMDadoda
 10/18/2019 4:54:02 PM



#30
 2-Butanone
 Concen: 24.750 ug/l
 RT: 4.66 min Scan# 619
 Delta R.T. 0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.9	10.3
72	26.4	22.1	33.1





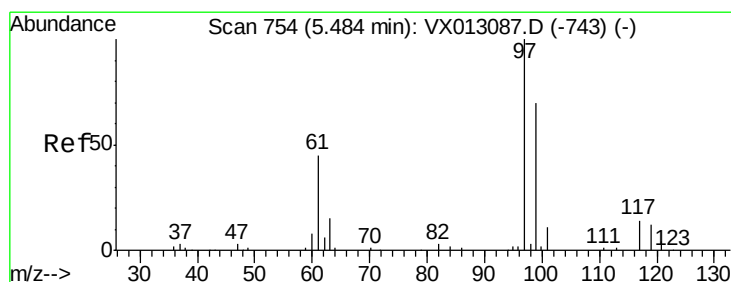
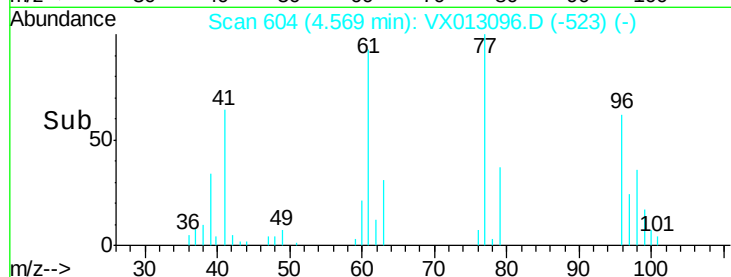
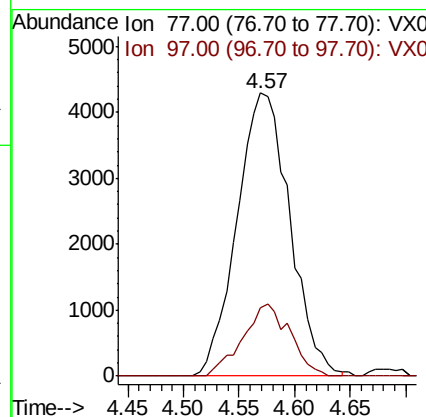
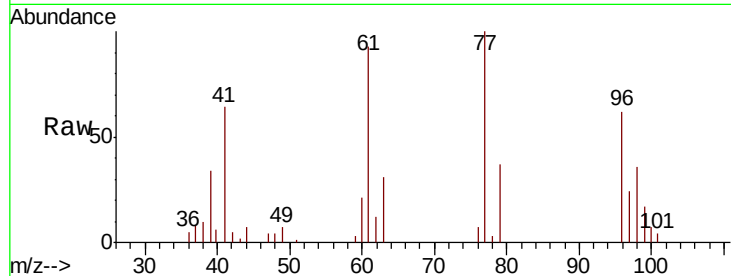
#31
 2,2-Dichloropropane
 Concen: 4.763 ug/l
 RT: 4.57 min Scan# 604
 Delta R.T. -0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 77 Resp: 14175
 Ion Ratio Lower Upper
 77 100
 97 22.7 17.8 26.6

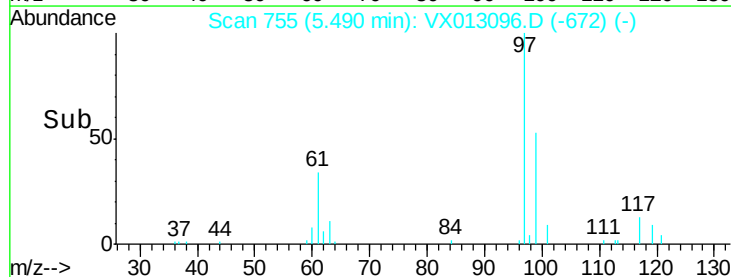
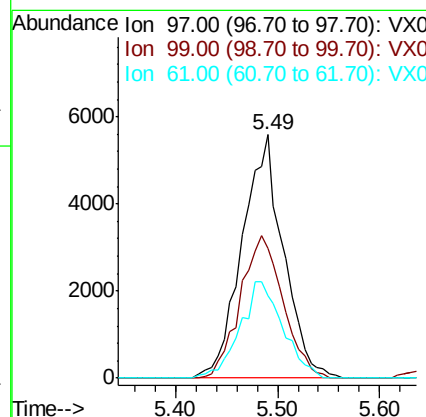
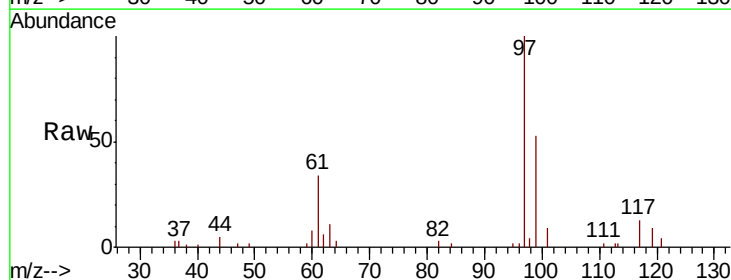
Manual Integrations
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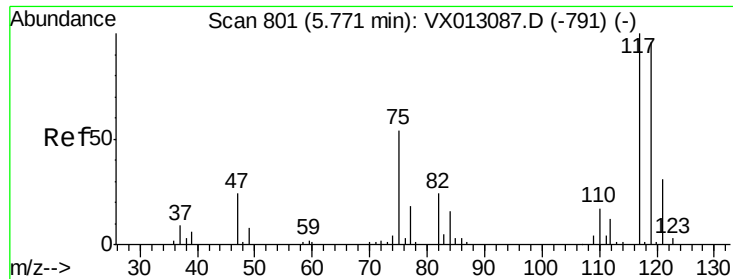
MMDadoda
 10/18/2019 4:54:02 PM



#32
 1,1,1-Trichloroethane
 Concen: 5.114 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion: 97 Resp: 15740
 Ion Ratio Lower Upper
 97 100
 99 60.7 52.4 78.6
 61 40.8 35.1 52.7





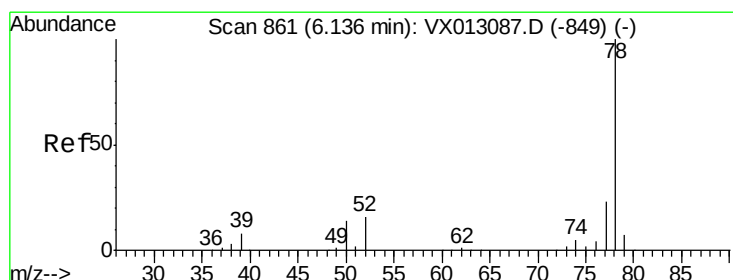
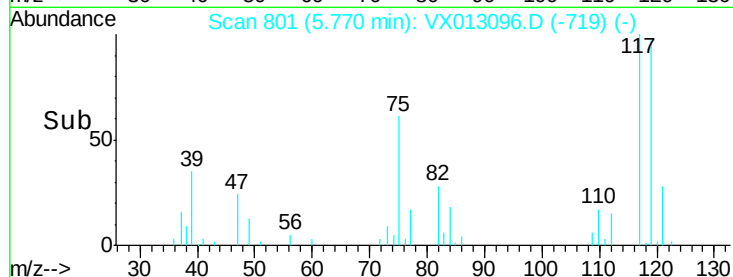
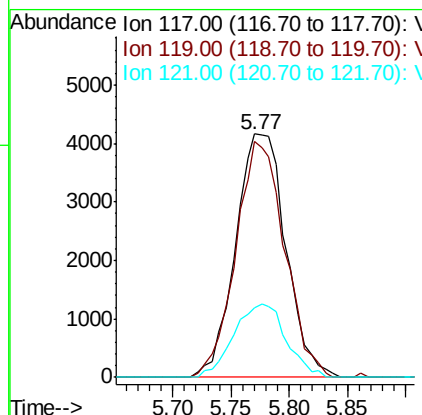
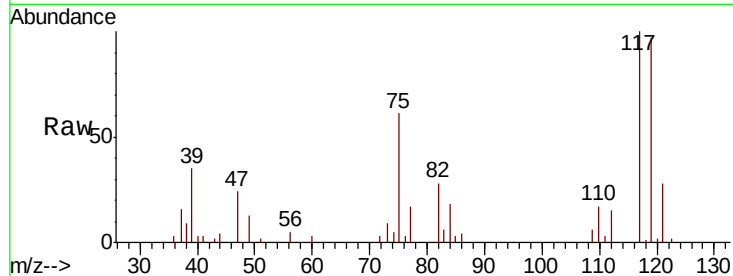
#33
Carbon Tetrachloride
Concen: 4.722 ug/l
RT: 5.77 min Scan# 801
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.0	115.4
121	28.4	24.6	36.8

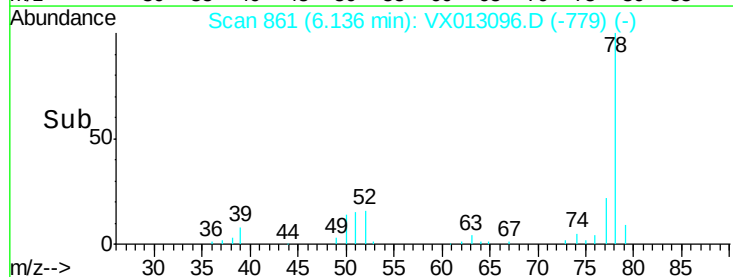
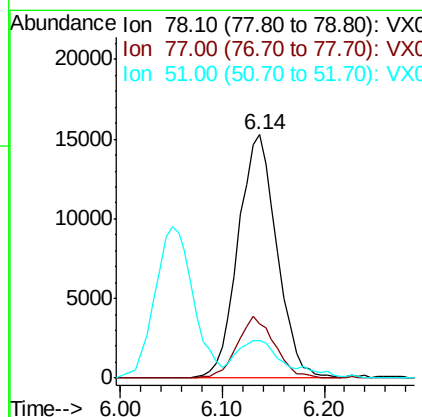
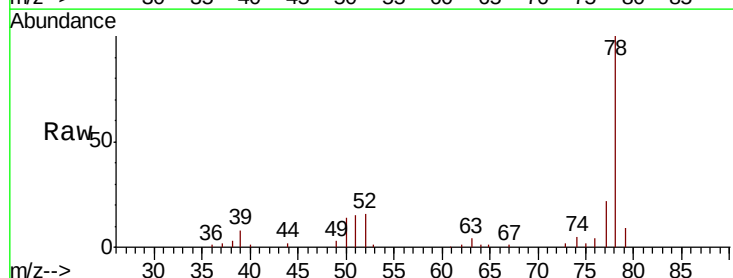
Manual Integrations
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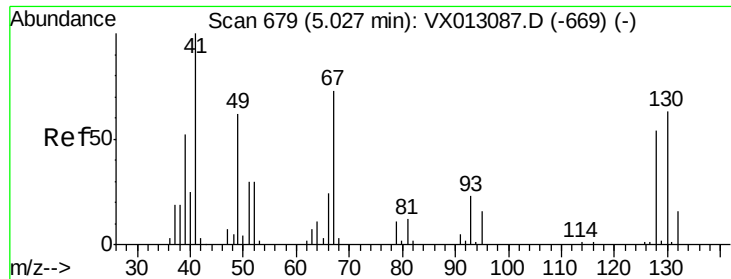
MMDadoda
10/18/2019 4:54:02 PM



#34
Benzene
Concen: 5.165 ug/l
RT: 6.14 min Scan# 861
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.5	27.7
51	14.5	12.1	18.1





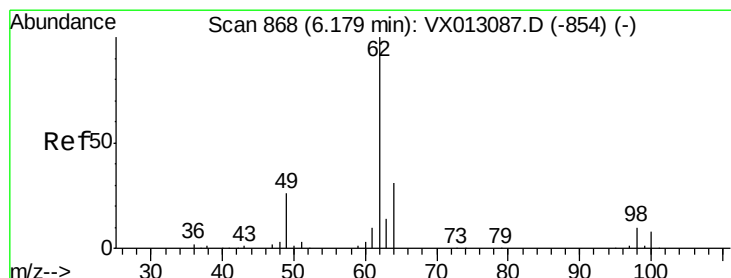
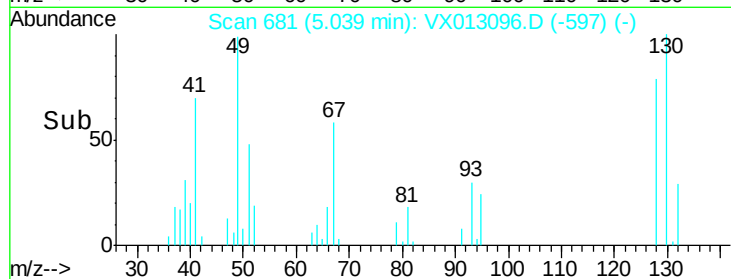
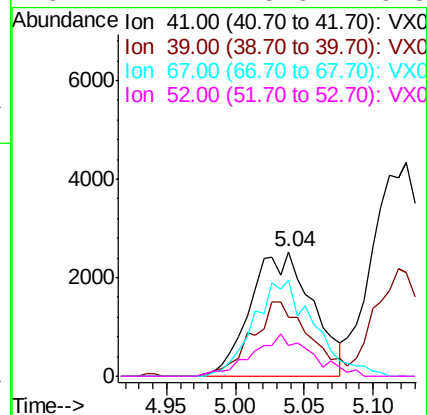
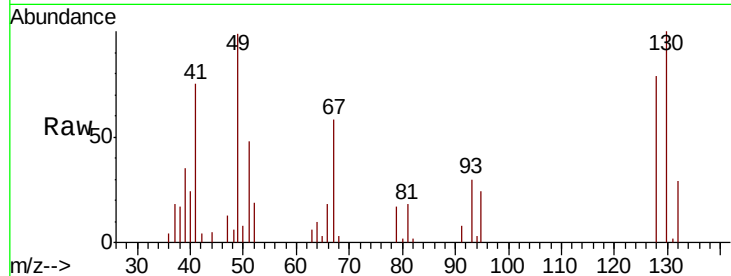
#35
Methacrylonitrile
Concen: 5.209 ug/l m
RT: 5.04 min Scan# 681
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:	41	Resp:	7916
Ion	Ratio	Lower	Upper
41	100		
39	46.9	26.3	78.8
67	76.6	36.5	109.5
52	24.7	15.3	45.8

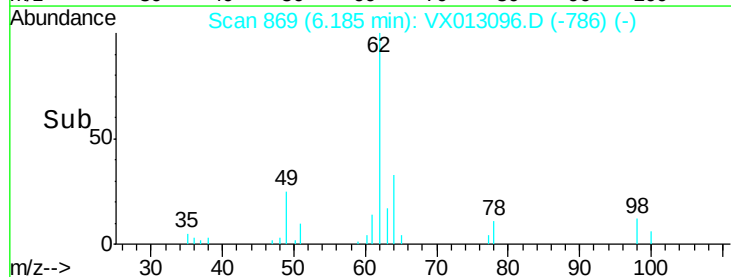
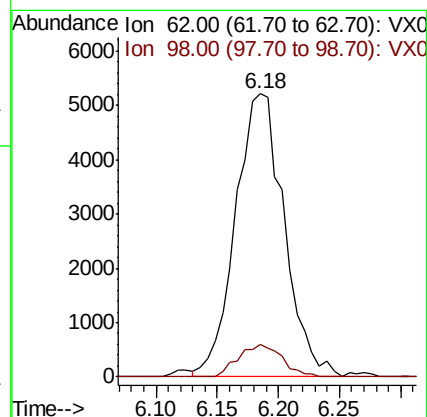
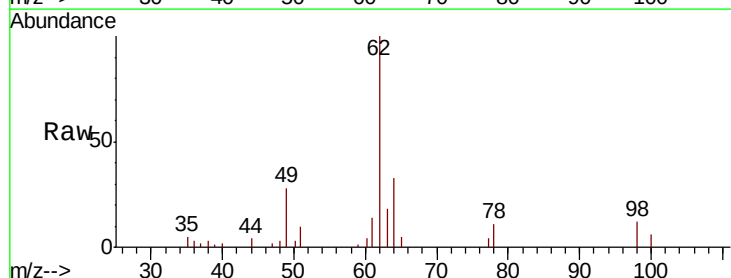
Manual Integrations
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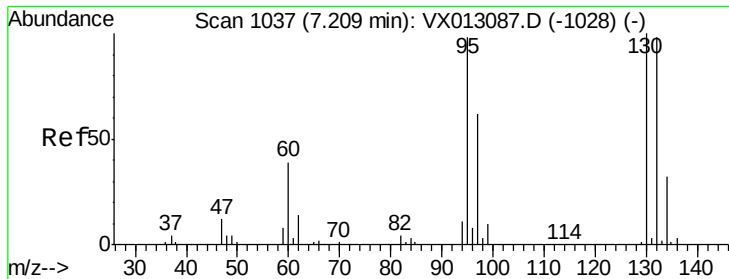
MMDadoda
10/18/2019 4:54:02 PM



#36
1,2-Dichloroethane
Concen: 5.104 ug/l
RT: 6.18 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion:	62	Resp:	14414
Ion	Ratio	Lower	Upper
62	100		
98	10.4	7.8	11.6





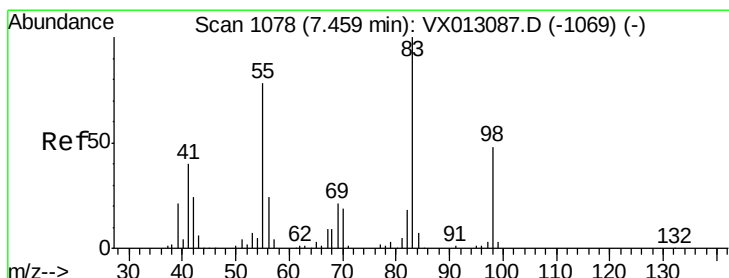
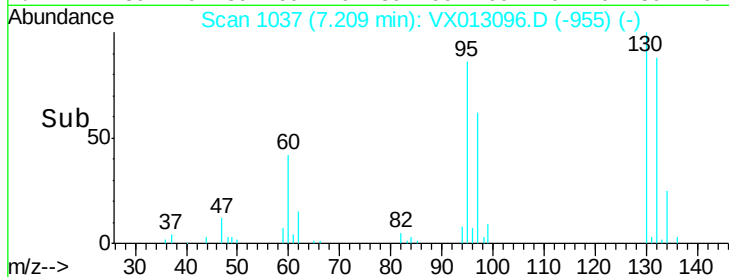
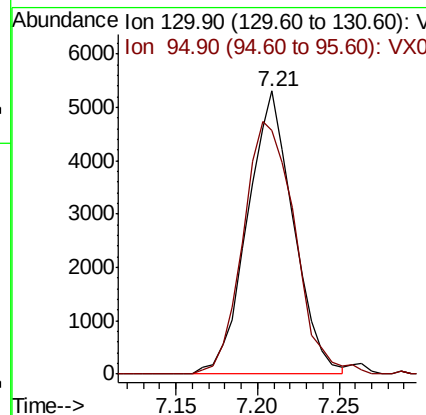
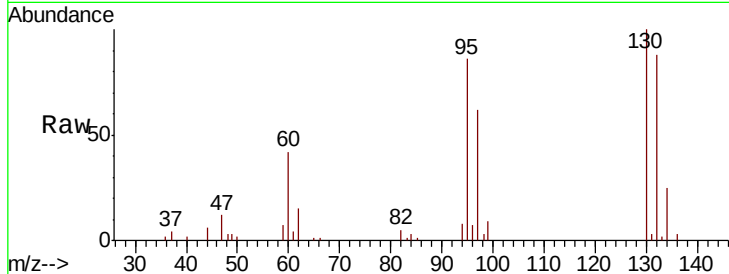
#37
 Trichloroethene
 Concen: 4.997 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:130 Resp: 10427
 Ion Ratio Lower Upper
 130 100
 95 86.2 78.4 117.6

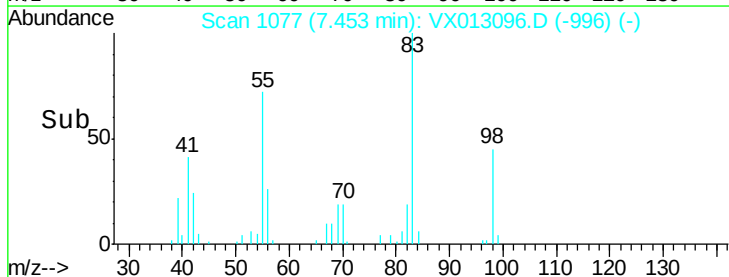
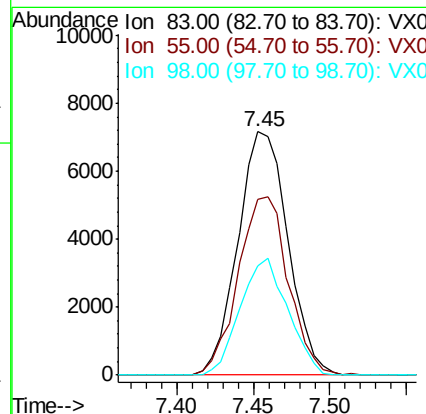
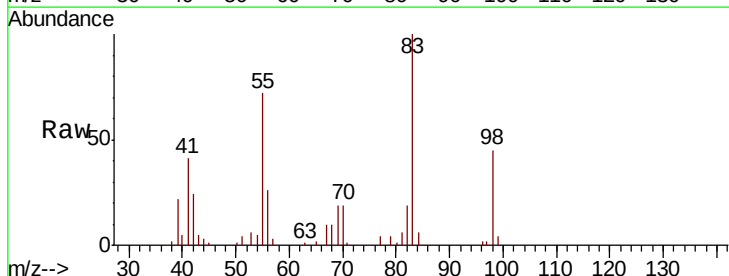
Manual Integrations
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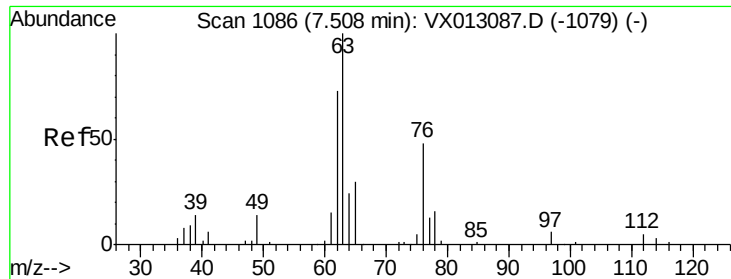
MMDadoda
 10/18/2019 4:54:02 PM



#38
 Methylcyclohexane
 Concen: 5.056 ug/l
 RT: 7.45 min Scan# 1077
 Delta R.T. -0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion: 83 Resp: 16279
 Ion Ratio Lower Upper
 83 100
 55 73.3 38.3 114.8
 98 45.6 24.9 74.7





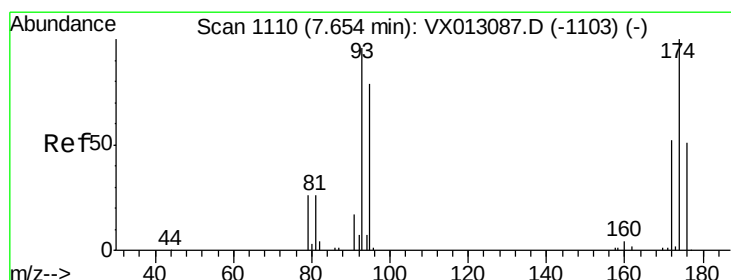
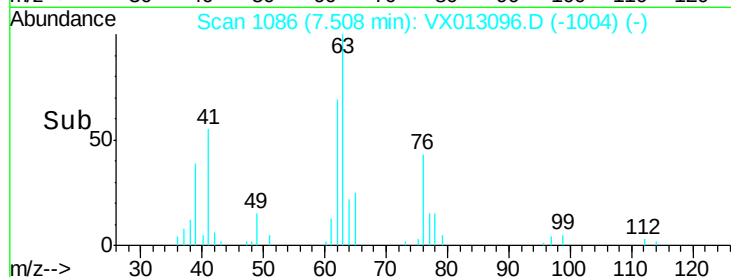
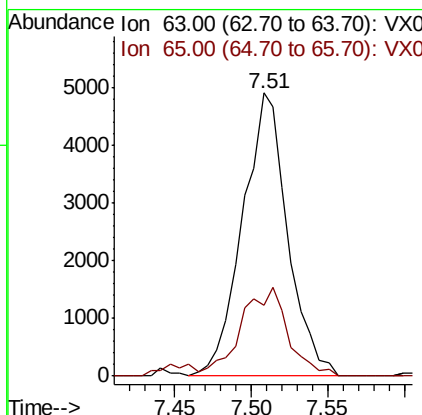
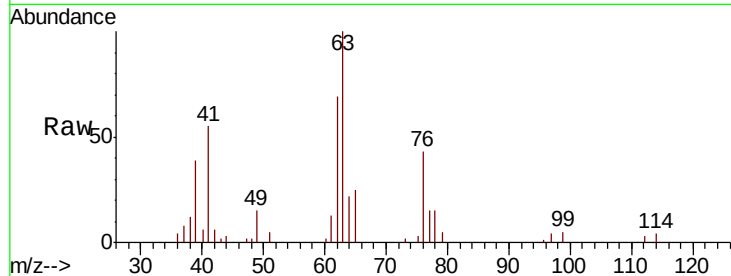
#39
 1,2-Dichloropropane
 Concen: 5.129 ug/l
 RT: 7.51 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 63 Resp: 10061
 Ion Ratio Lower Upper
 63 100
 65 25.2 25.6 38.4#

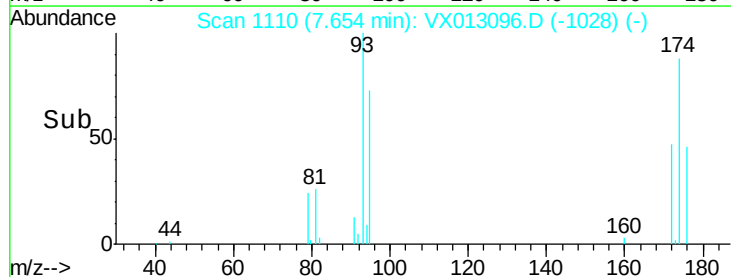
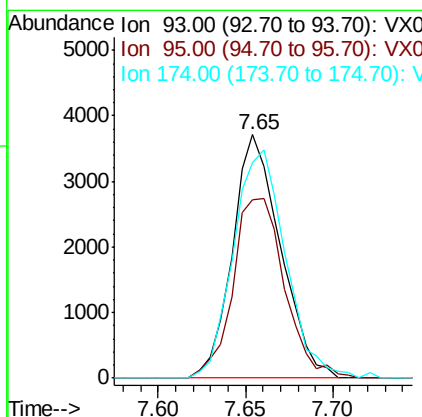
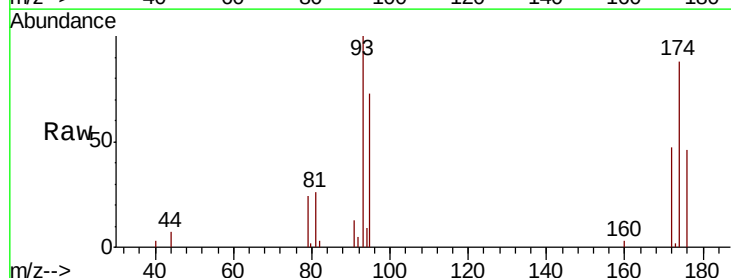
Manual Integrations
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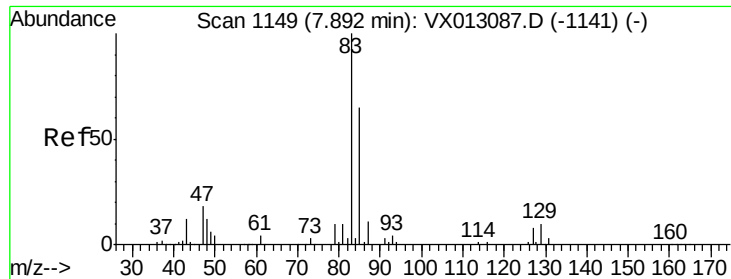
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#40
 Dibromomethane
 Concen: 5.330 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion: 93 Resp: 7100
 Ion Ratio Lower Upper
 93 100
 95 79.5 0.0 171.2
 174 101.5 0.0 208.2





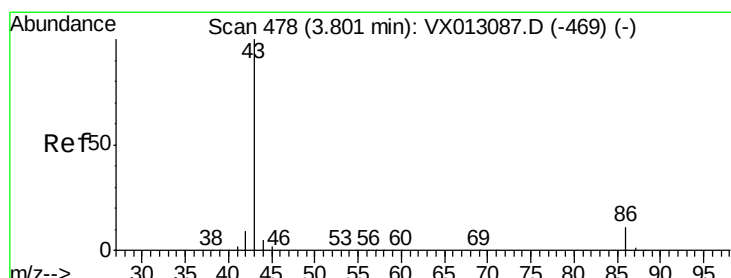
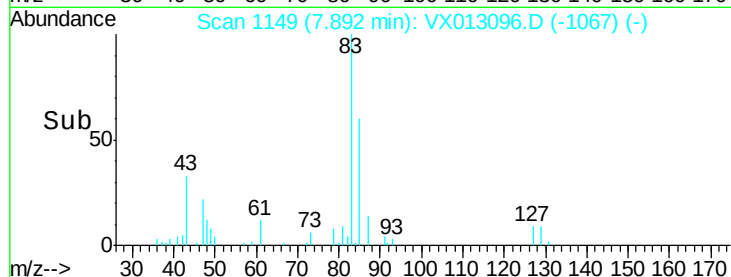
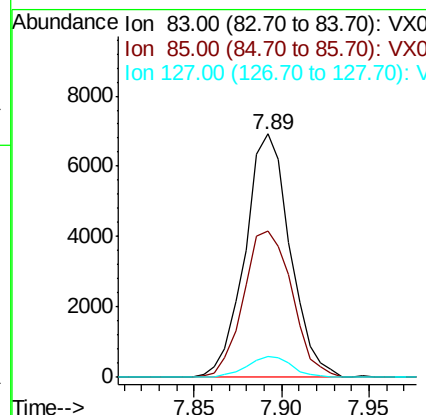
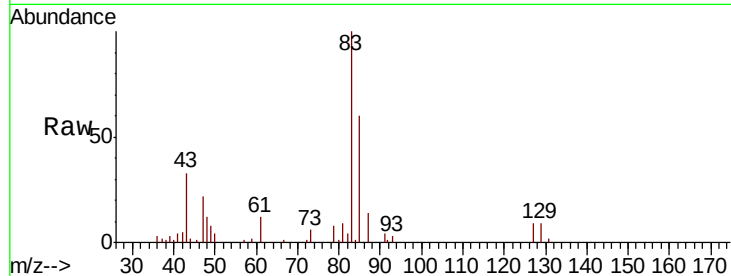
#41
Bromodichloromethane
Concen: 4.688 ug/l
RT: 7.89 min Scan# 1149
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	83	Resp	12400
Ion Ratio	100	Lower	Upper
83	100		
85	60.0	51.8	77.8
127	8.6	6.7	10.1

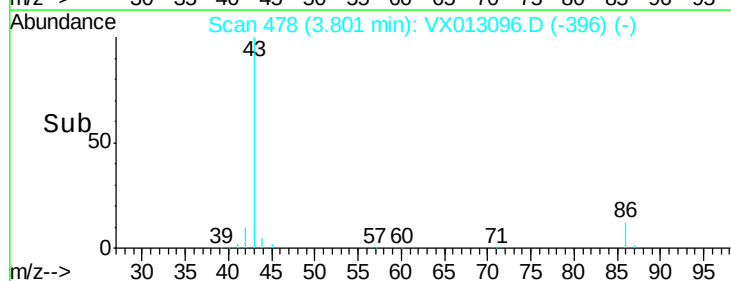
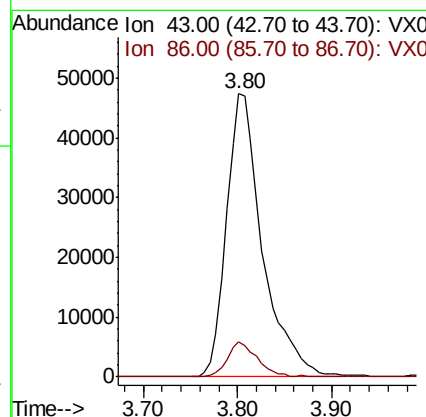
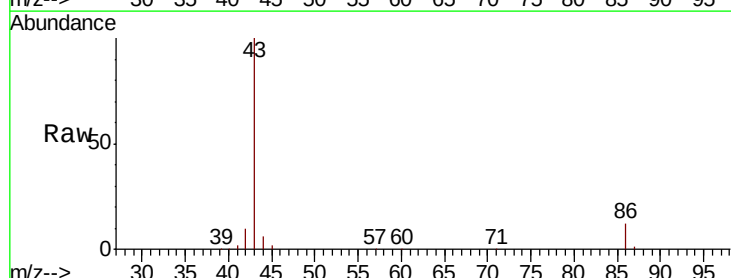
Manual Integrations
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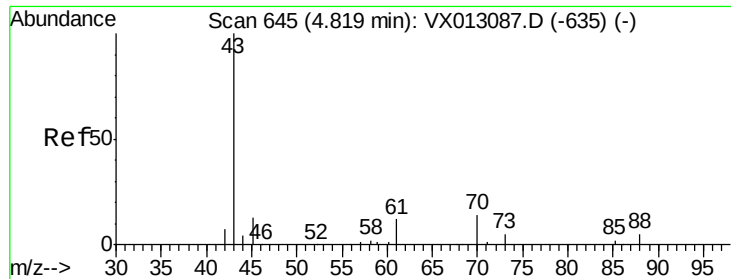
MMDadoda
10/18/2019 4:54:02 PM



#42
Vinyl Acetate
Concen: 24.702 ug/l
RT: 3.80 min Scan# 478
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	43	Resp	125359
Ion Ratio	100	Lower	Upper
43	100		
86	10.1	8.2	12.2





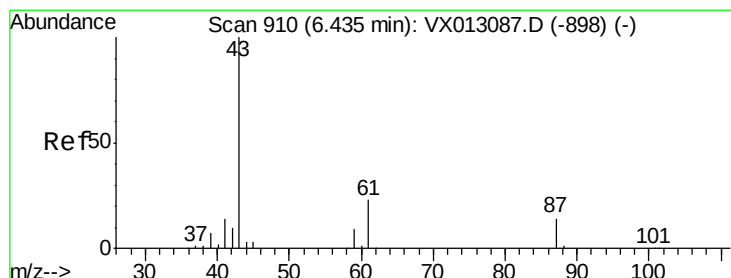
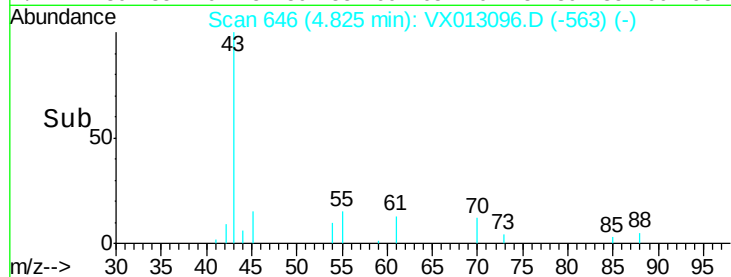
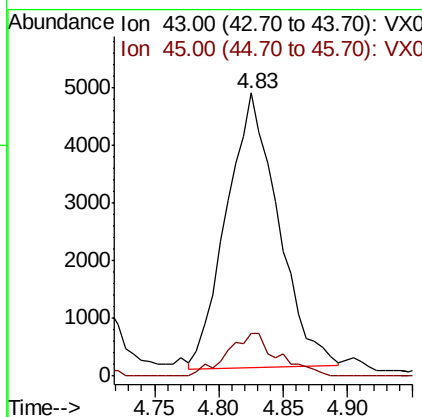
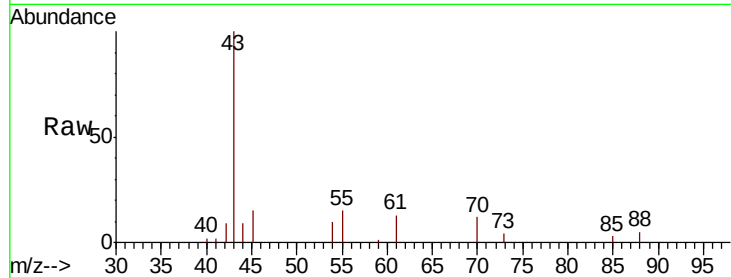
#43
Ethyl Acetate
Concen: 4.767 ug/l
RT: 4.83 min Scan# 646
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 13296
Ion Ratio Lower Upper
43 100
45 12.3 12.8 19.2#

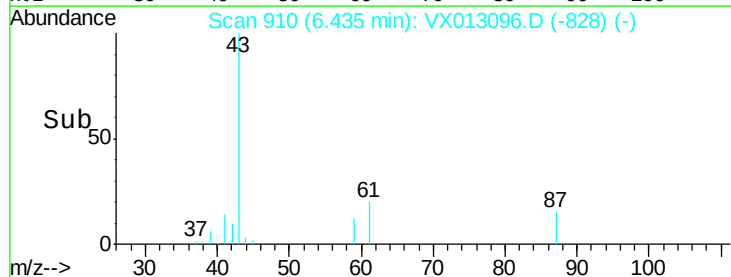
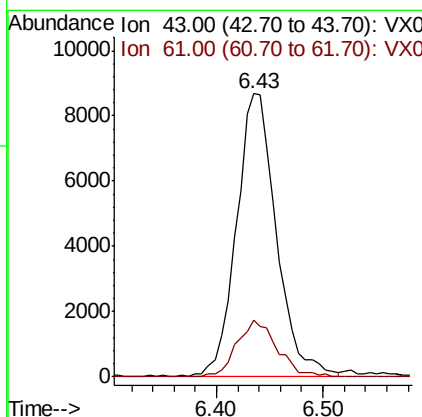
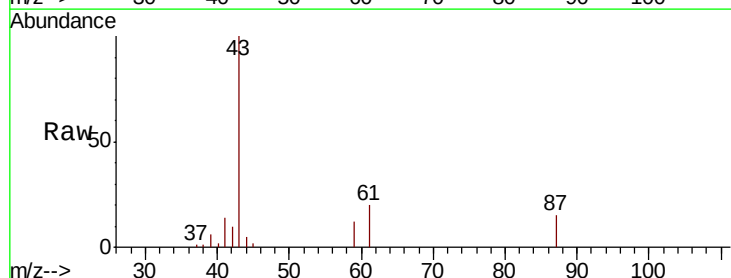
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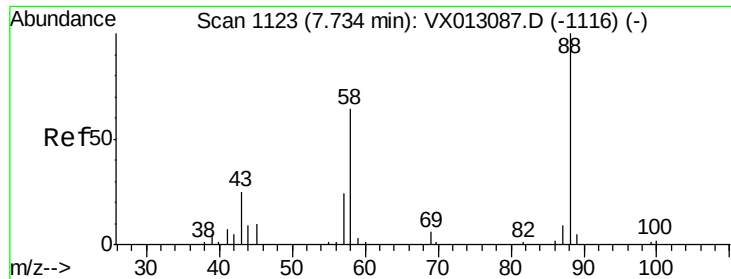
MMDadoda
10/18/2019 4:54:02 PM



#44
Isopropyl Acetate
Concen: 5.091 ug/l
RT: 6.43 min Scan# 910
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion: 43 Resp: 22897
Ion Ratio Lower Upper
43 100
61 19.5 16.7 25.1





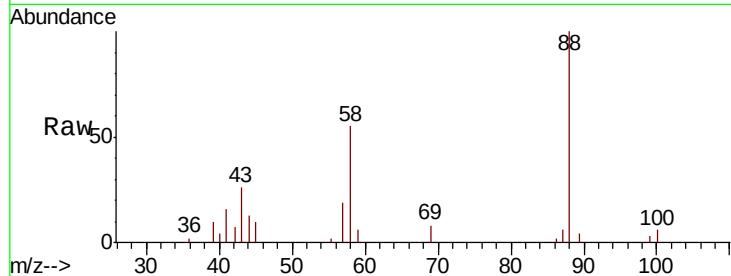
#45
1,4-Dioxane
Concen: 101.747 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

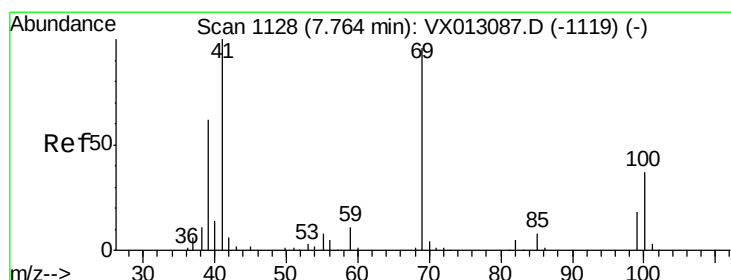
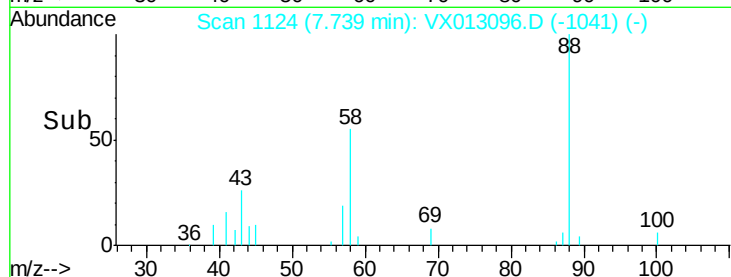
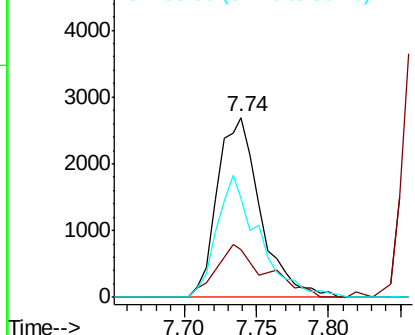
Tot Ion	Ratio	Lower	Upper
88	100		
43	24.3	26.0	39.0#
58	66.6	53.0	79.4

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10/18/2019 4:54:02 PM

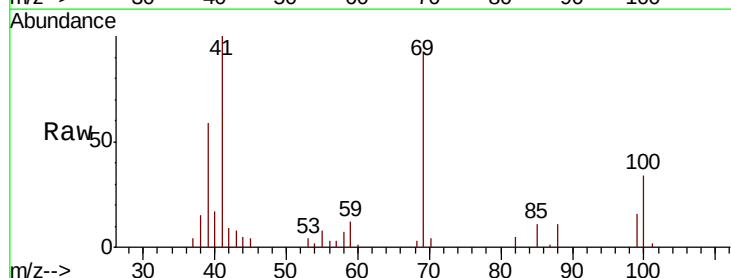


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

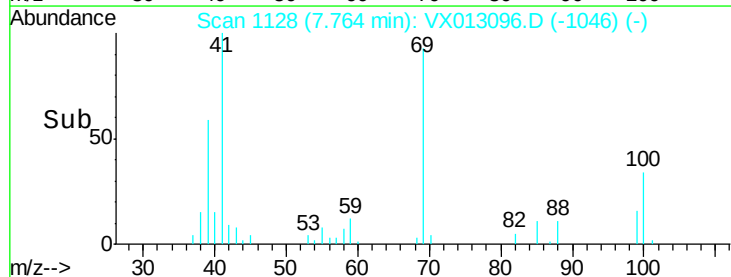
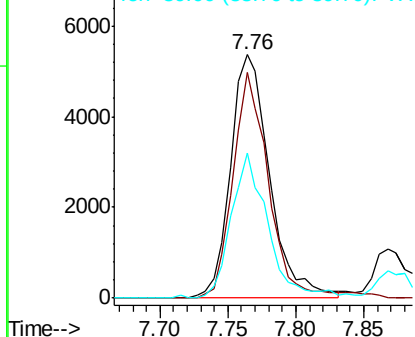


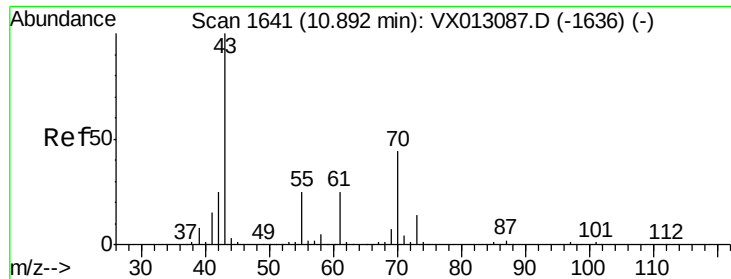
#46
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
41	100		
69	92.7	48.1	144.3
39	59.4	31.2	93.6



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#47

n-amvl Acetate

Concen: 4.354 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 16674

Ion Ratio Lower Upper

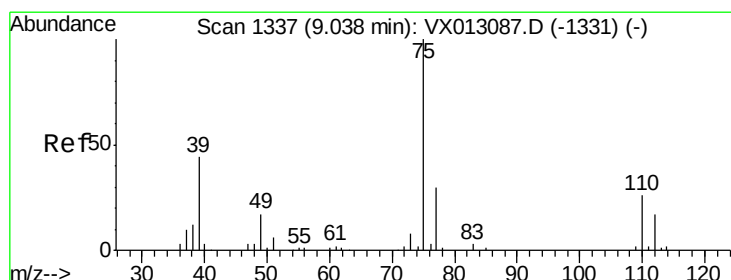
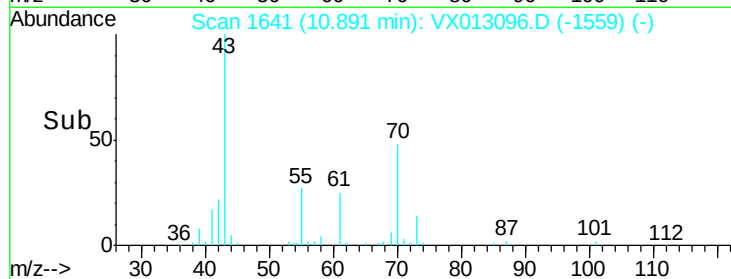
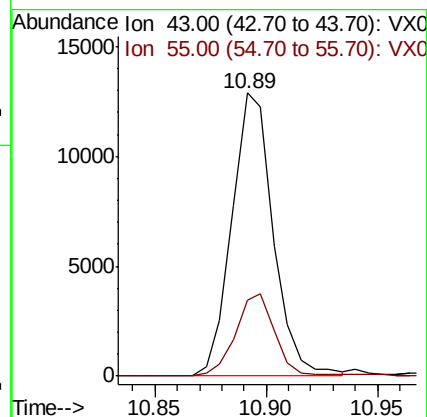
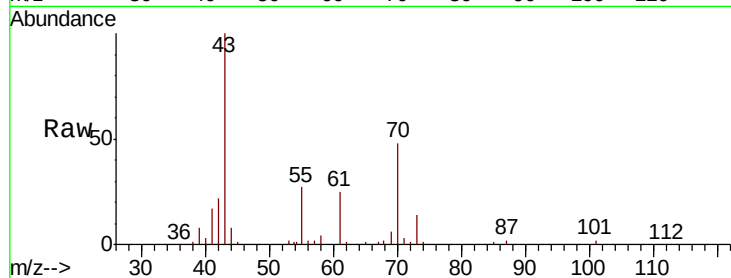
43 100

55 27.3 20.6 31.0

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10/18/2019 4:54:02 PM



#48

t-1,3-Dichloropropene

Concen: 4.337 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VX013096.D

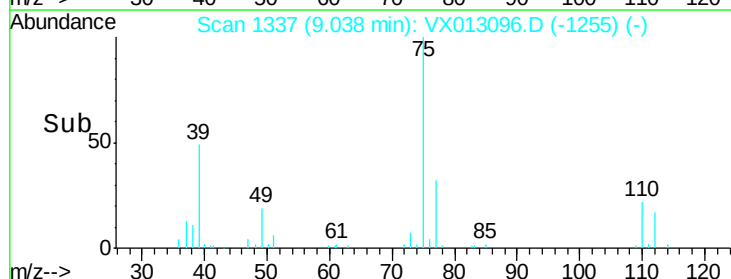
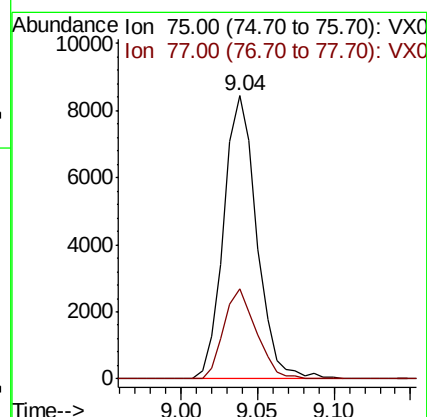
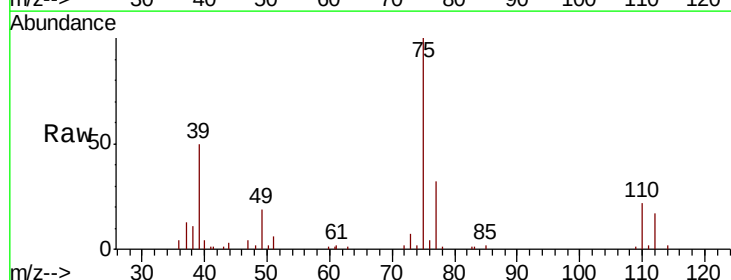
Acq: 16 Oct 2019 15:12

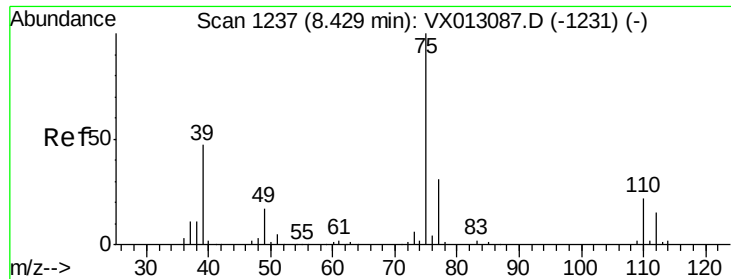
Tgt Ion: 75 Resp: 12696

Ion Ratio Lower Upper

75 100

77 32.0 23.7 35.5





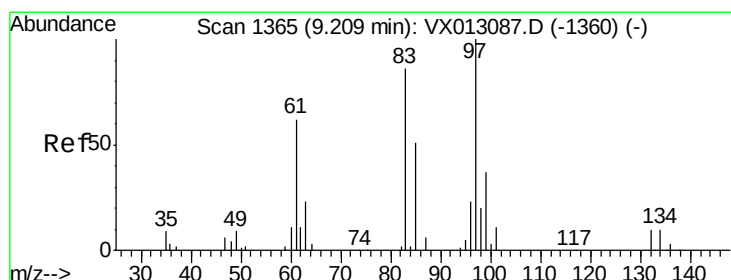
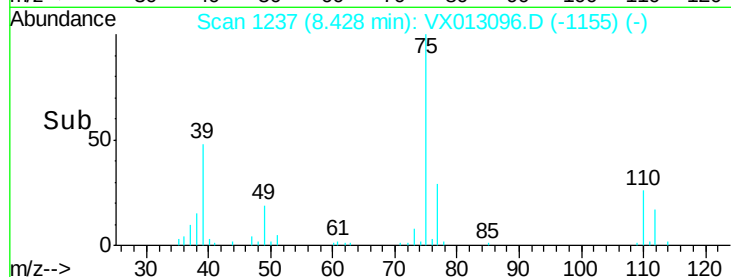
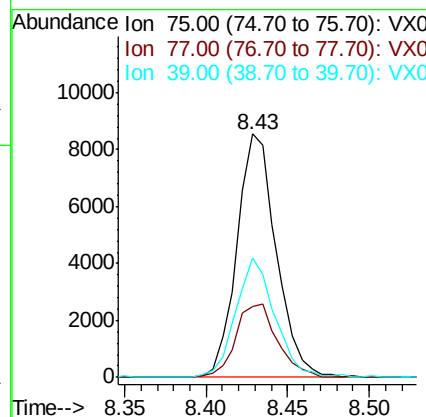
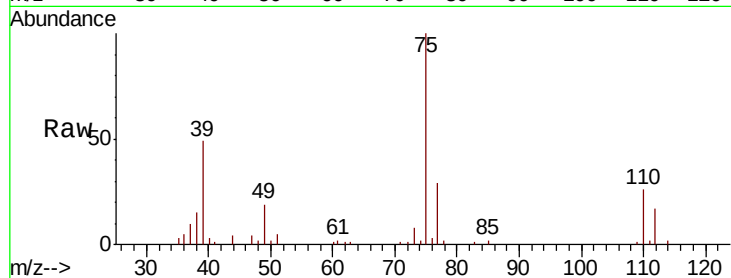
#49
 cis-1,3-Dichloropropene
 Concen: 4.444 ug/l
 RT: 8.43 min Scan# 1237
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.1	24.7	37.1
39	49.0	37.4	56.0

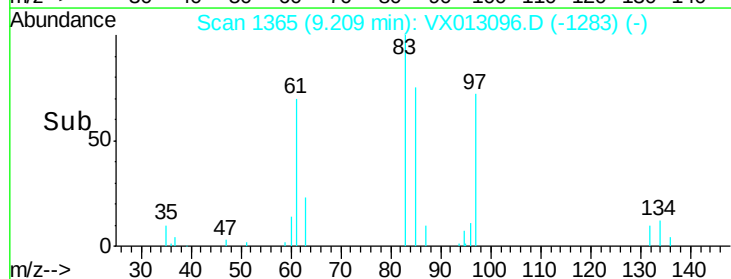
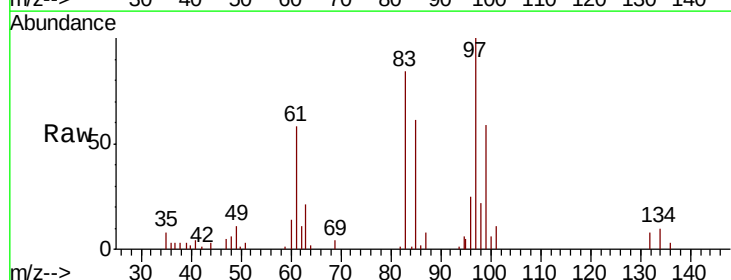
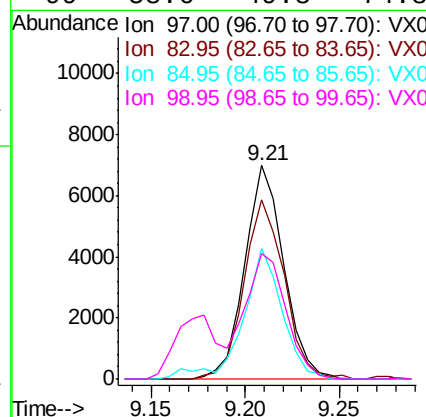
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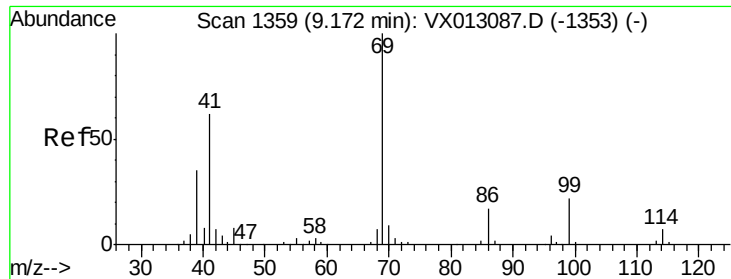
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 10/18/2019 4:54:02 PM



#50
 1,1,2-Trichloroethane
 Concen: 4.992 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.6	68.1	102.1
85	60.5	42.6	64.0
99	58.6	49.8	74.8





#51

Ethyl methacrylate

Concen: 4.618 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

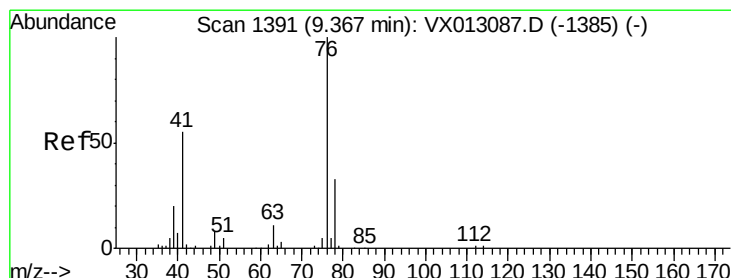
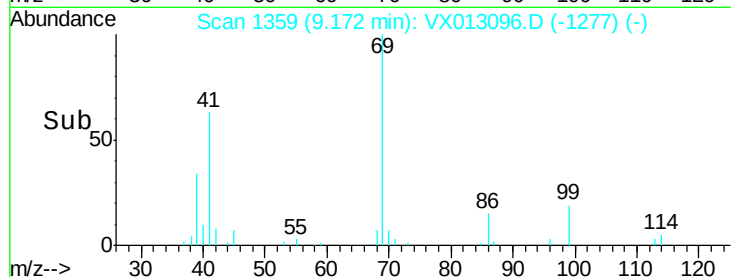
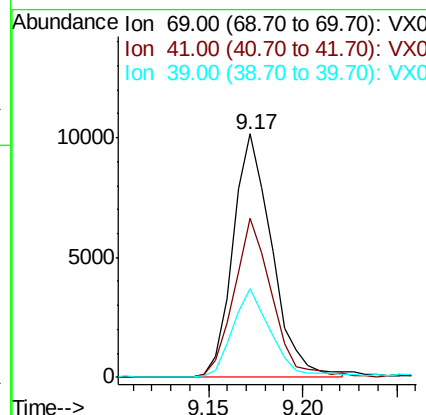
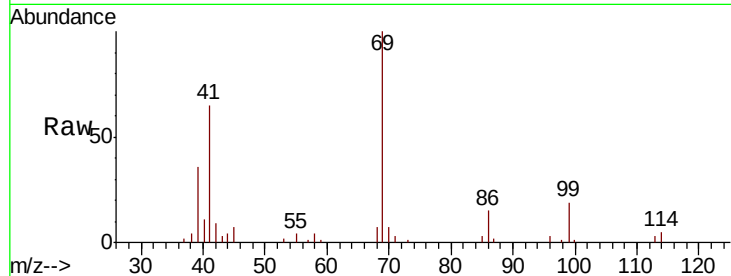
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	69	Resp:	14600
Ion	Ratio	Lower	Upper
69	100		
41	65.4	31.1	93.3
39	36.3	17.6	52.9

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#52

1,3-Dichloropropane

Concen: 5.339 ug/l

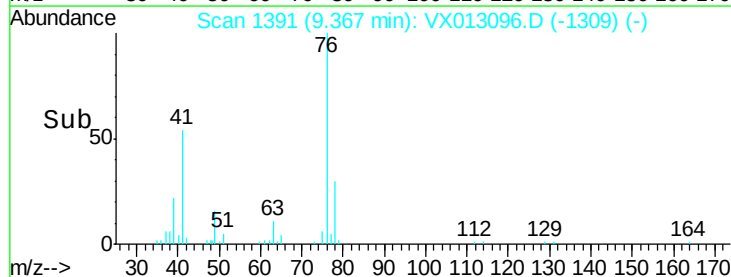
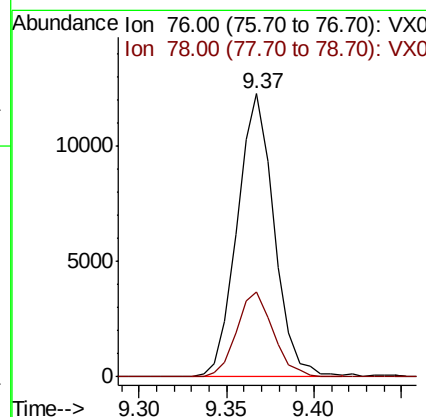
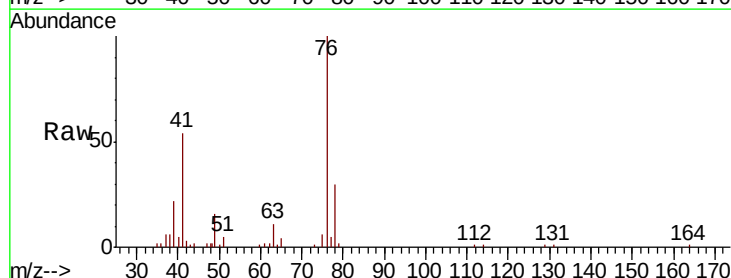
RT: 9.37 min Scan# 1391

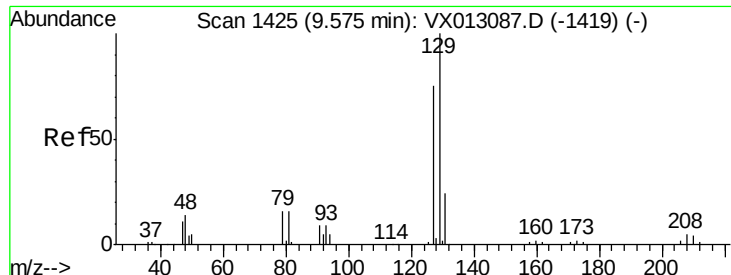
Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion:	76	Resp:	18014
Ion	Ratio	Lower	Upper
76	100		
78	29.8	0.0	64.2





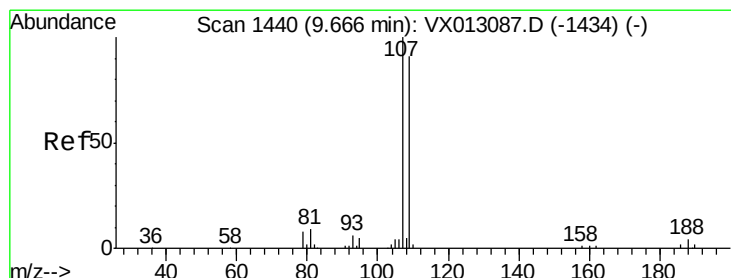
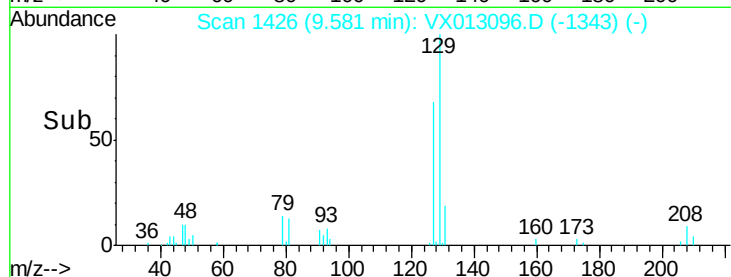
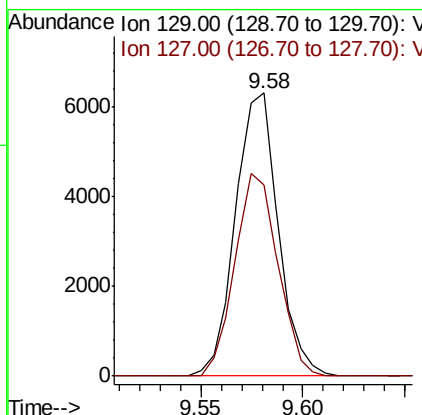
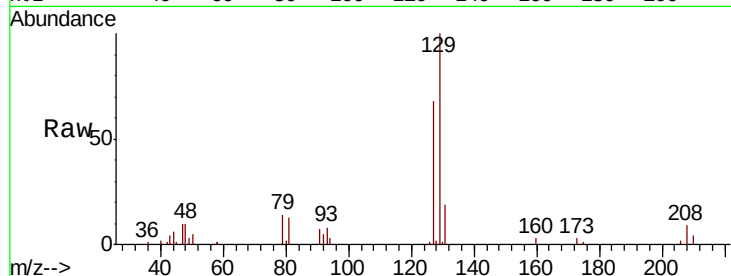
#53
Dibromochloromethane
Concen: 4.454 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:129 Resp: 9196
Ion Ratio Lower Upper
129 100
127 72.2 38.0 113.9

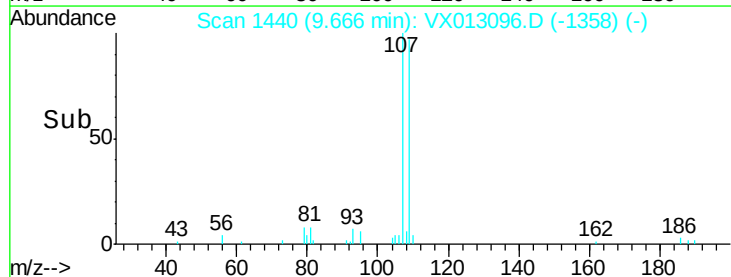
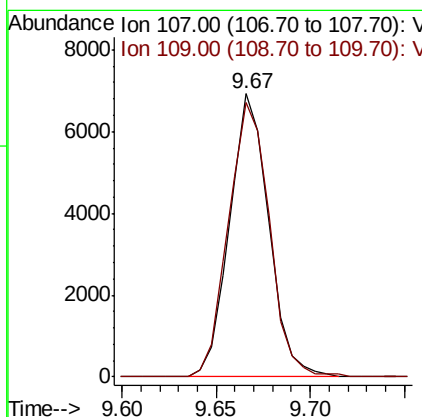
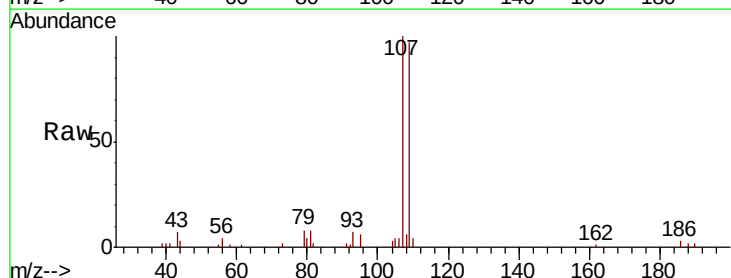
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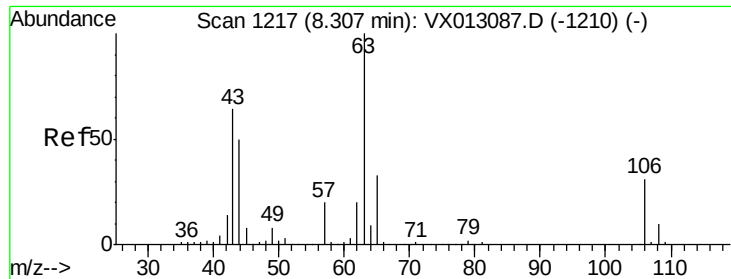
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#54
1,2-Dibromoethane
Concen: 4.733 ug/l
RT: 9.67 min Scan# 1440
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion:107 Resp: 10008
Ion Ratio Lower Upper
107 100
109 100.9 73.6 110.4





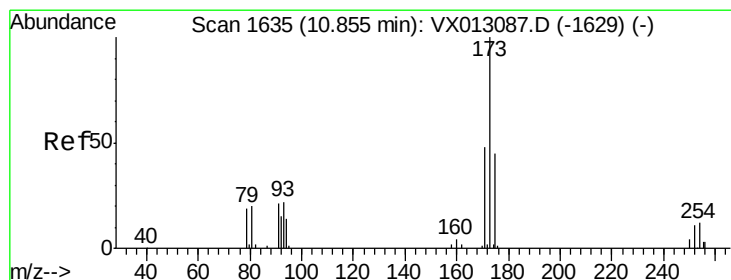
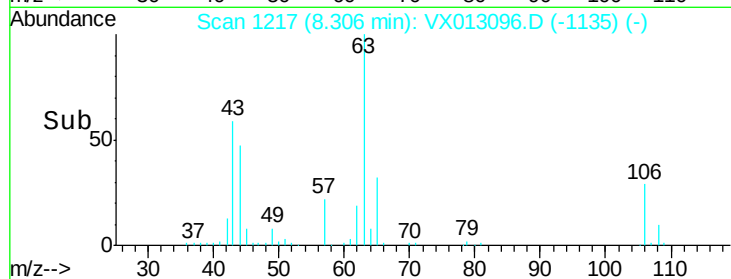
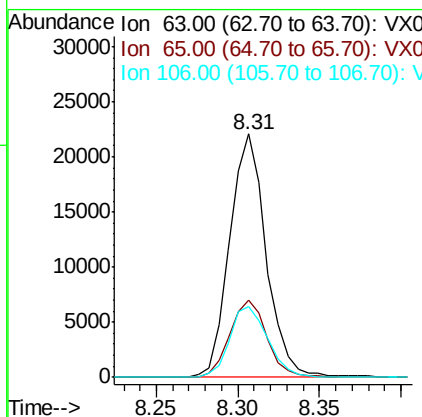
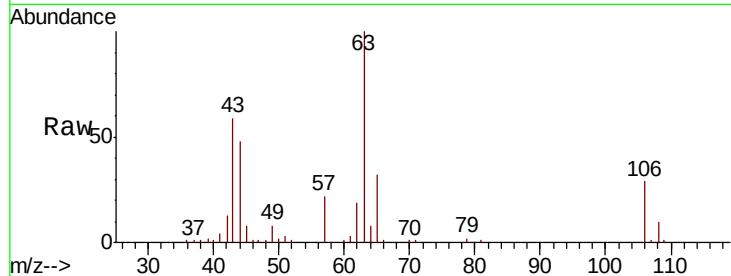
#55
2-Chloroethyl vinyl ether
Concen: 24.691 ug/l
RT: 8.31 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:	63	Resp:	34345
Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.9	38.9
106	30.4	24.3	36.5

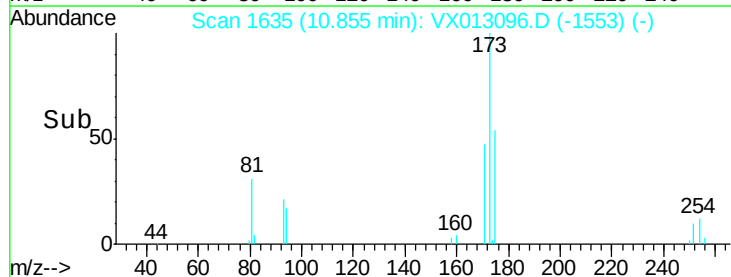
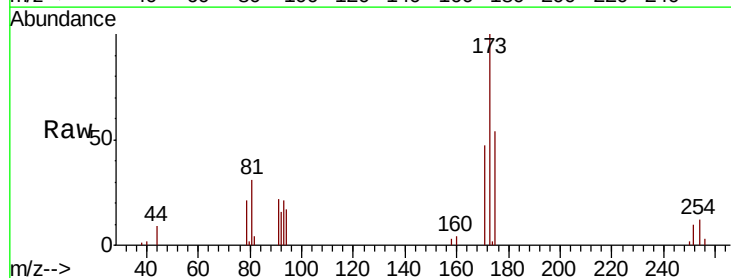
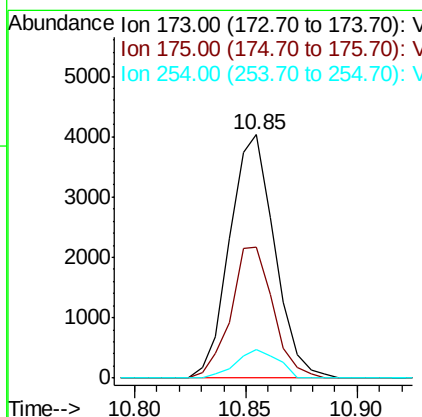
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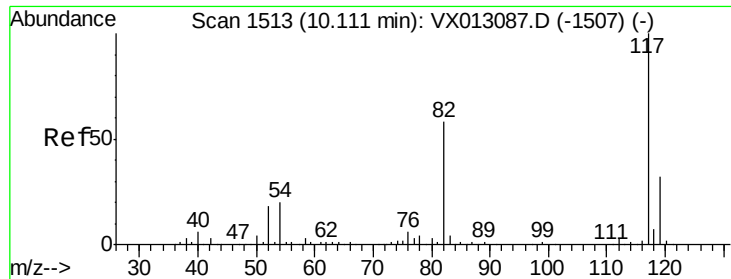
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10/18/2019 4:54:02 PM



#56
Bromoform
Concen: 3.943 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion:	173	Resp:	5664
Ion	Ratio	Lower	Upper
173	100		
175	50.7	37.8	56.8
254	11.0	7.9	11.9





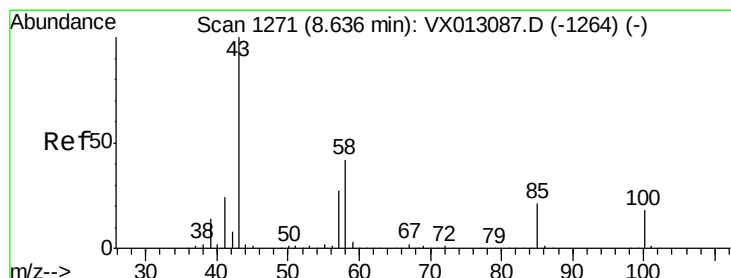
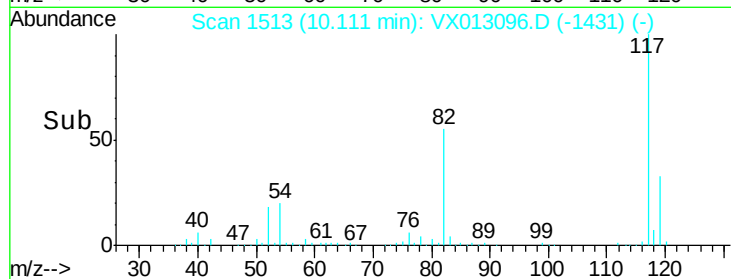
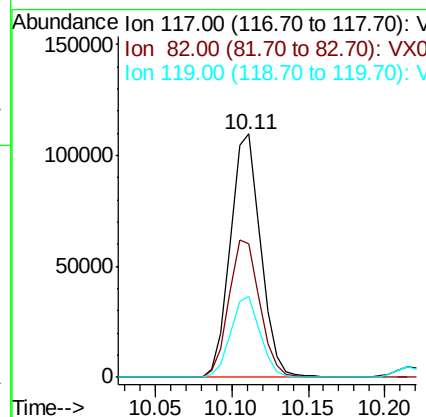
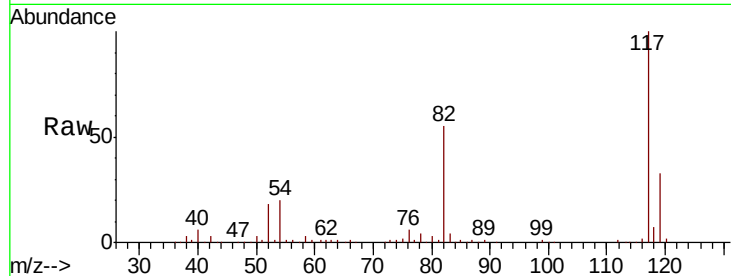
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	46.7	70.1
119	32.4	25.8	38.6

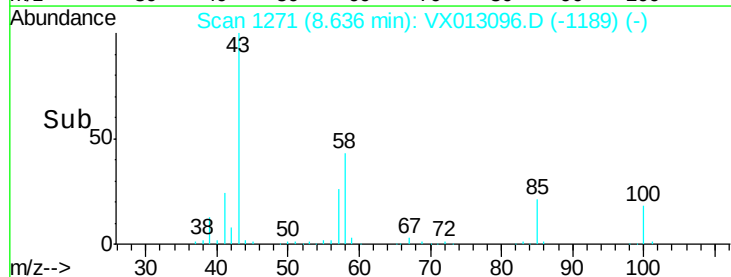
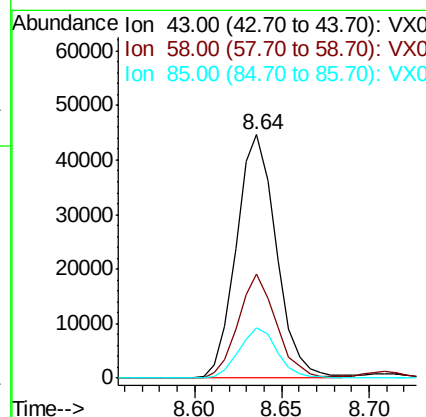
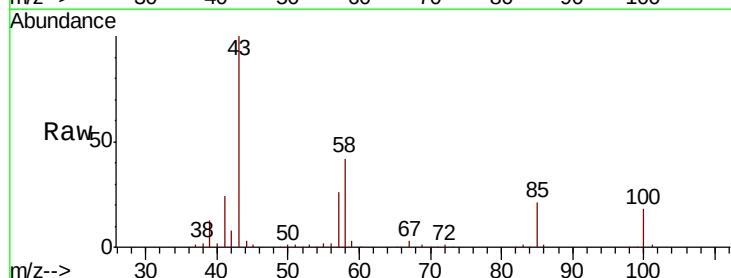
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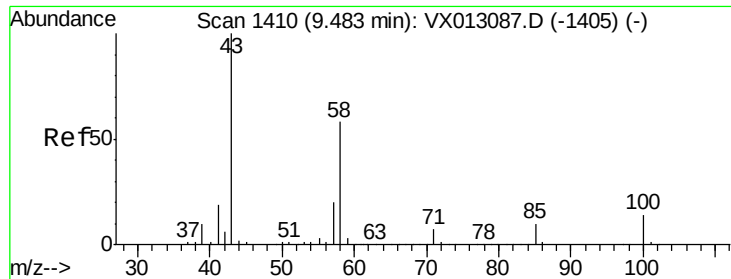
MMDadoda
10/18/2019 4:54:02 PM



#58
4-Methyl-2-Pentanone
Concen: 25.902 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.4	33.0	49.4
85	20.0	16.0	24.0





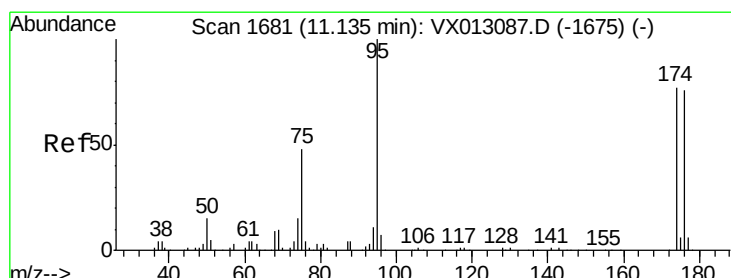
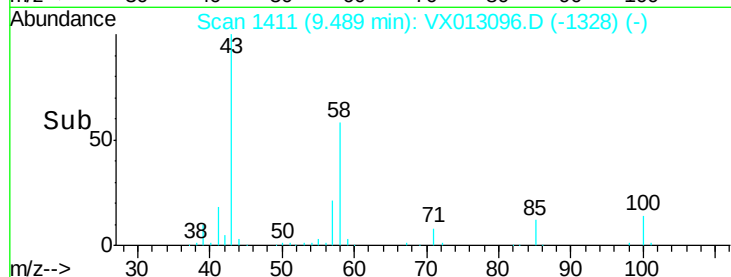
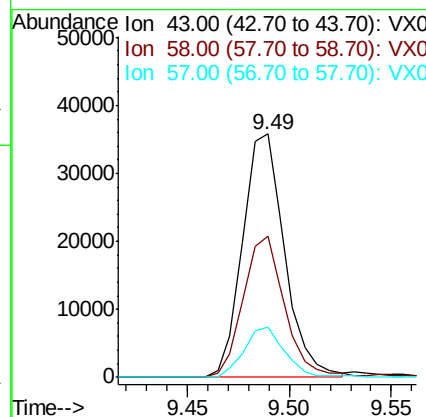
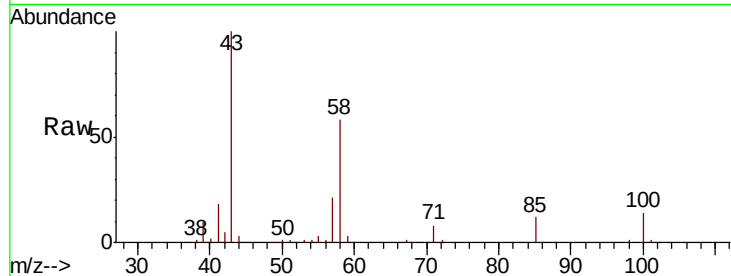
#59
2-Hexanone
Concen: 23.927 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.0	45.4	68.2
57	20.5	16.2	24.2

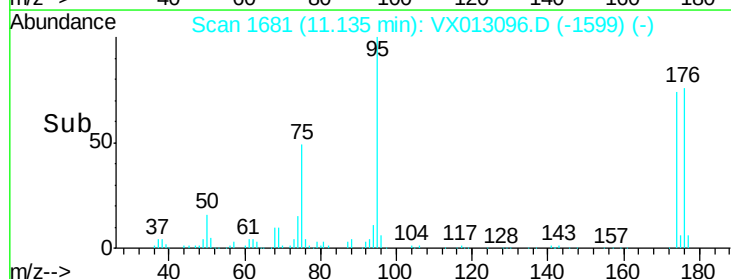
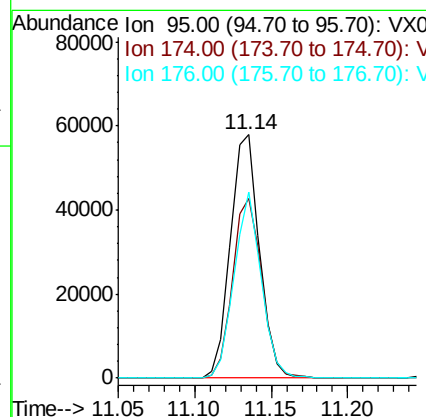
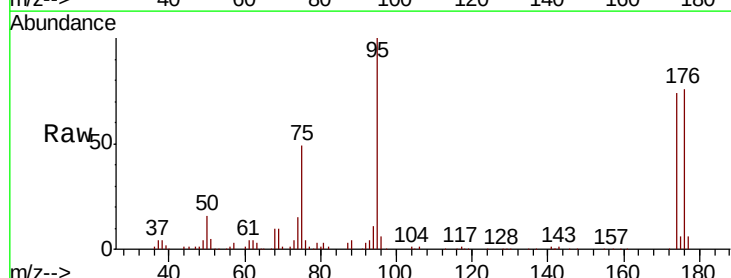
Manual Integrations
APPROVED

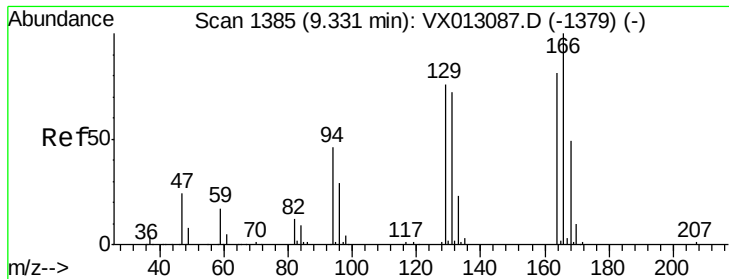
MMDadoda
10/18/2019 4:54:02 PM



#60
4-Bromofluorobenzene
Concen: 28.786 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.1	58.8	88.2
176	71.4	56.6	84.8





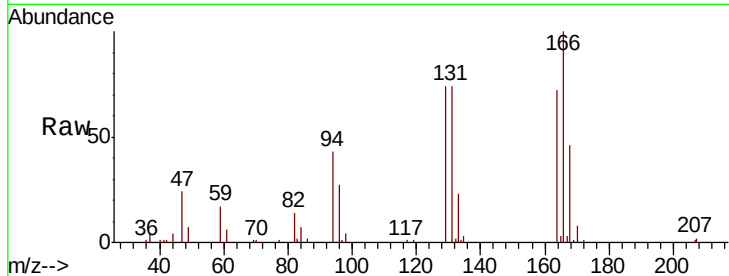
#61
Tetrachloroethene
Concen: 5.181 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	138.8	98.4	147.6
129	102.5	75.2	112.8
131	102.8	70.4	105.6

Manual Integrations
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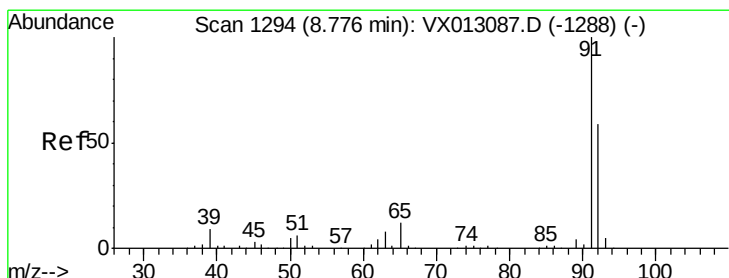
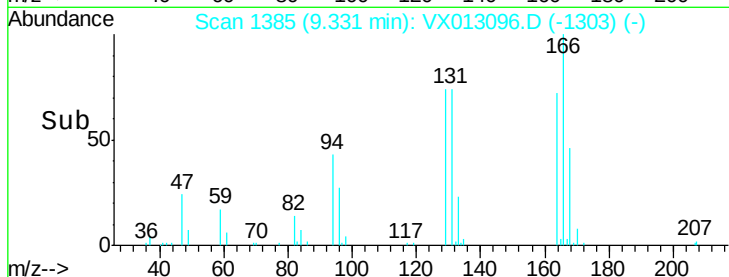
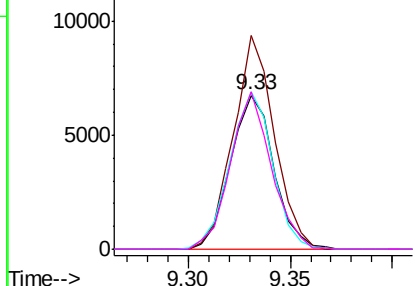


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

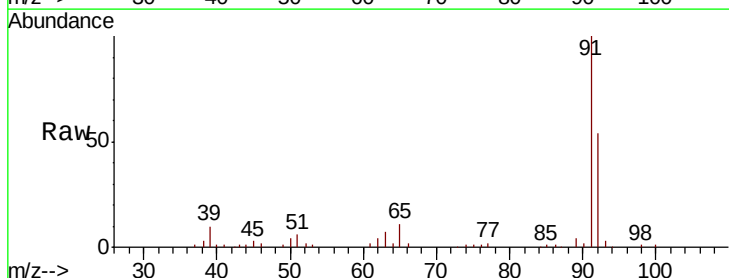
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



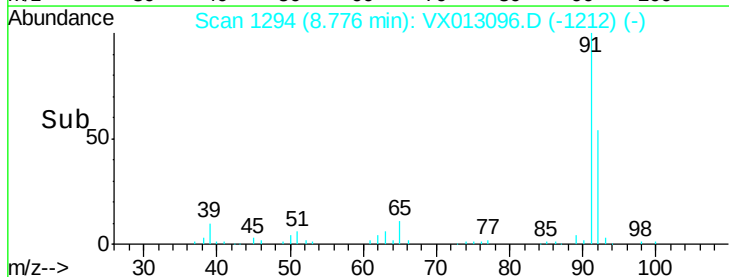
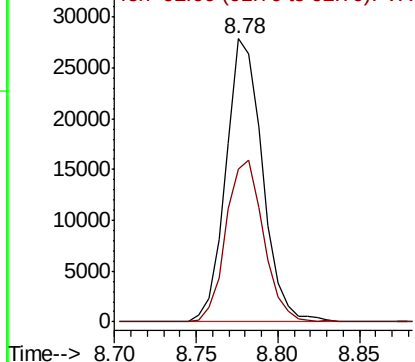
#62
Toluene
Concen: 5.291 ug/l
RT: 8.78 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

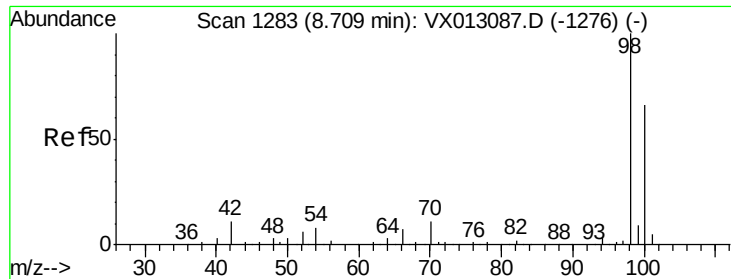
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.6	71.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





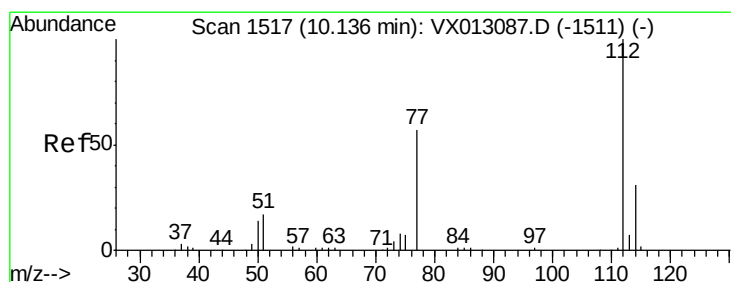
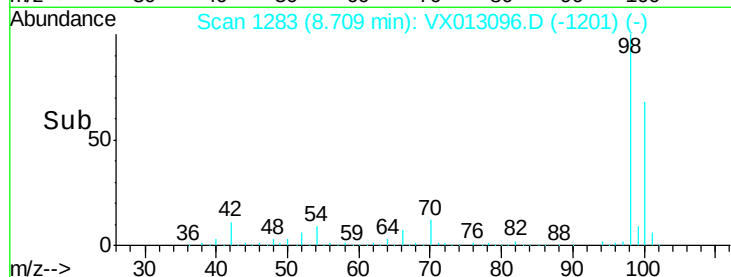
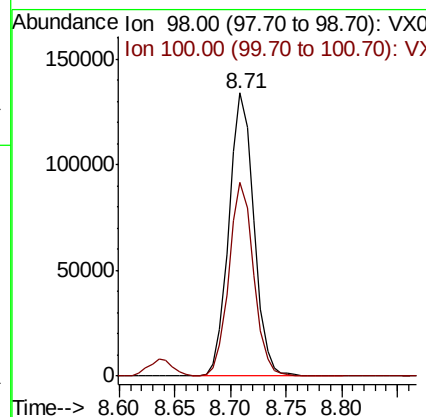
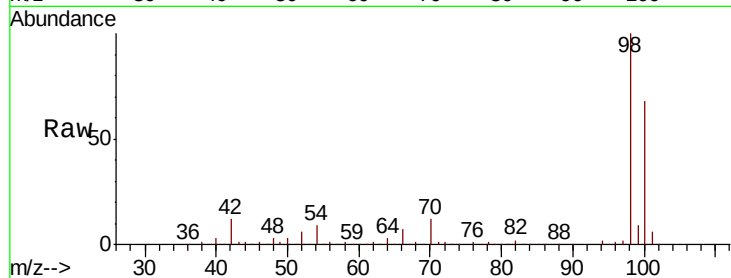
#63
Toluene-d8
Concen: 30.319 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 98 Resp: 209059
Ion Ratio Lower Upper
98 100
100 67.7 53.8 80.6

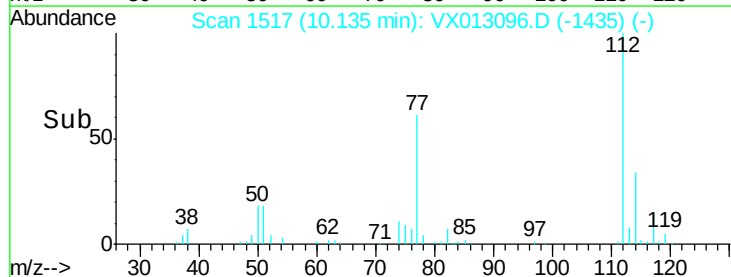
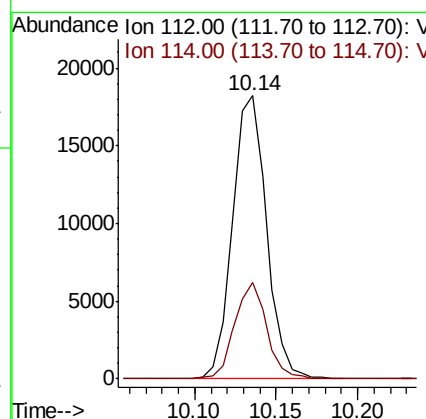
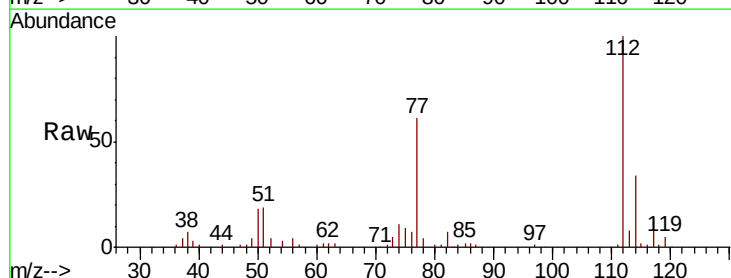
Manual Integrations
APPROVED

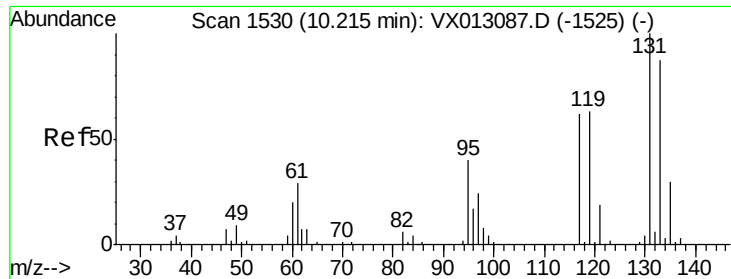
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#64
Chlorobenzene
Concen: 5.056 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion: 112 Resp: 26392
Ion Ratio Lower Upper
112 100
114 34.0 25.2 37.8





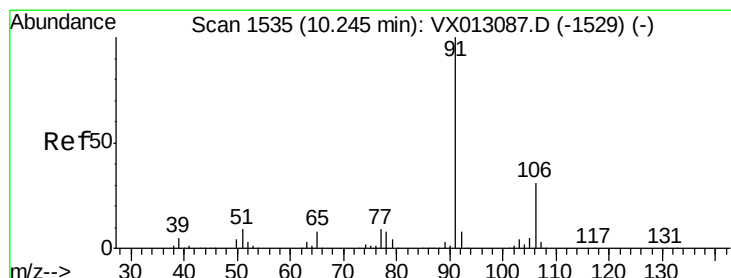
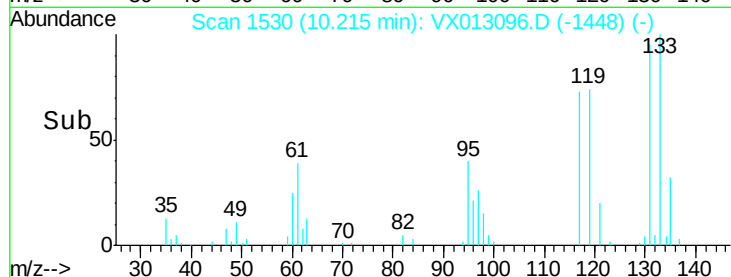
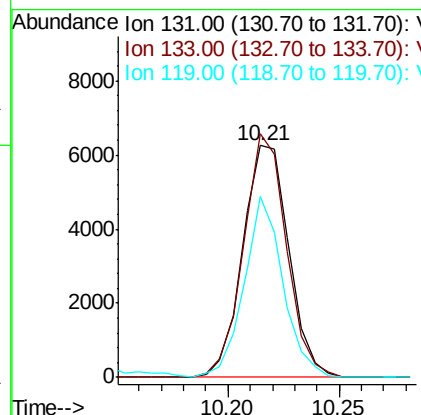
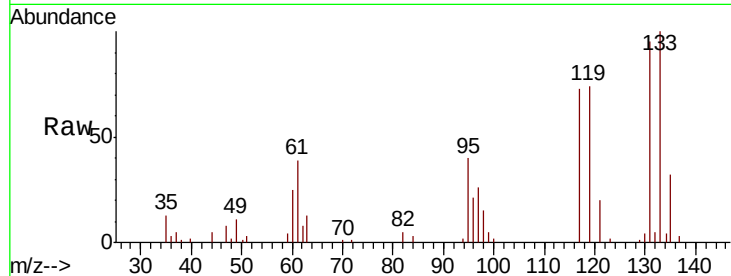
#65
 1,1,1,2-Tetrachloroethane
 Concen: 4.728 ug/l
 RT: 10.21 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	97.4	0.0	187.8
119	65.4	0.0	128.4

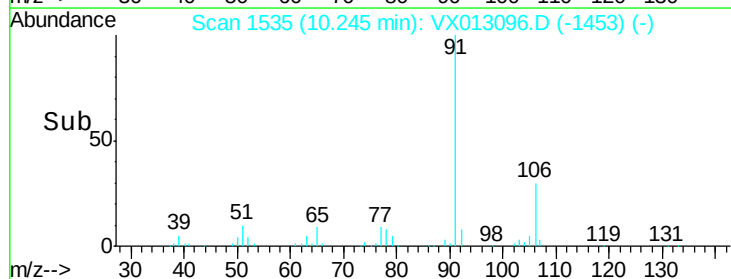
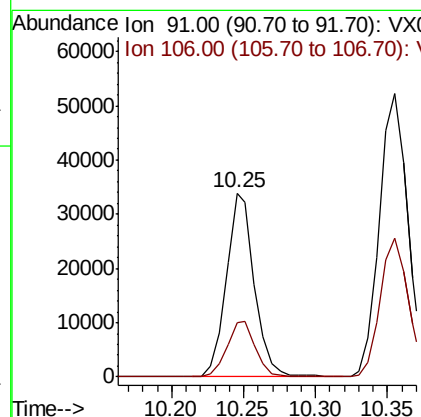
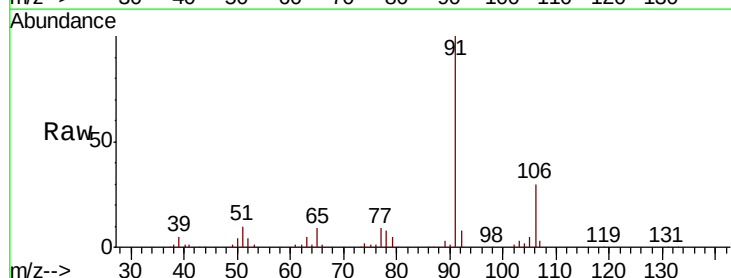
Manual Integrations
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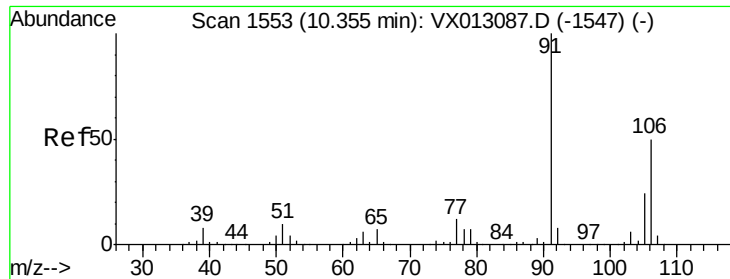
MMDadoda
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#66
 Ethyl Benzene
 Concen: 4.955 ug/l
 RT: 10.25 min Scan# 1535
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	25.0	37.4





#67

m/p-Xylenes

Concen: 9.868 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:106 Resp: 34806

Ion Ratio Lower Upper

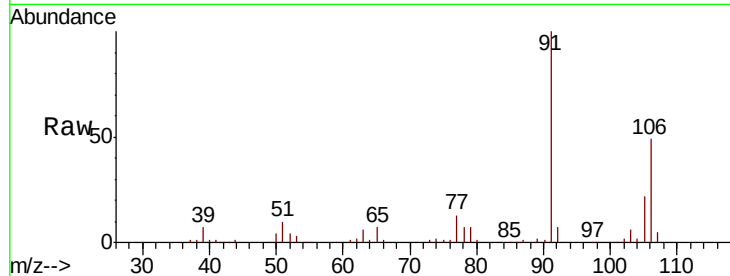
106 100

91 207.7 162.6 243.8

Manual Integrations
APPROVED

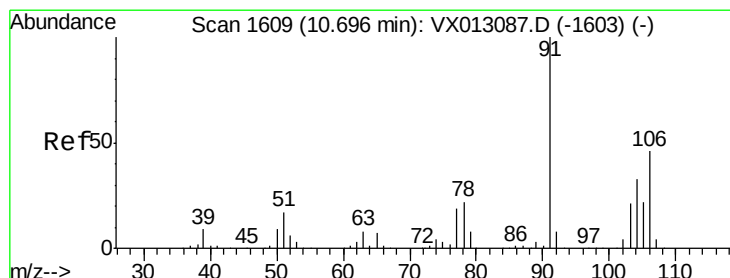
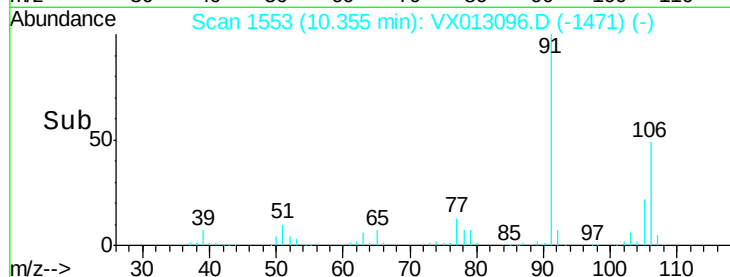
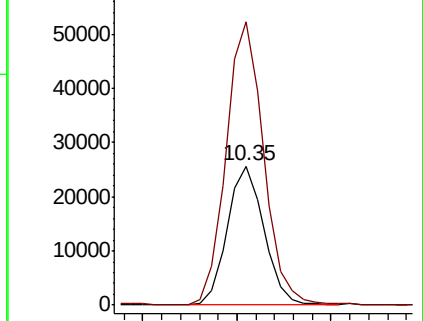
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 5.001 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. -0.00 min

Lab File: VX013096.D

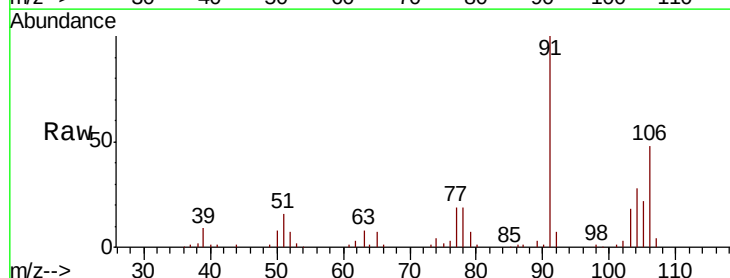
Acq: 16 Oct 2019 15:12

Tgt Ion:106 Resp: 17178

Ion Ratio Lower Upper

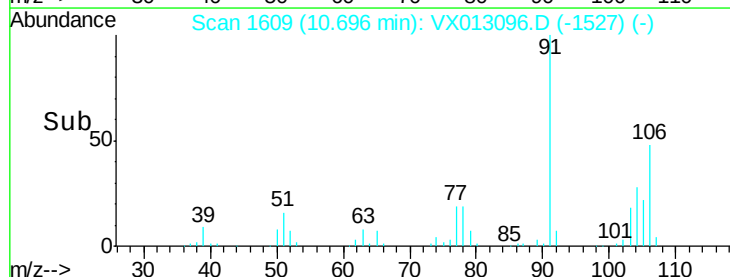
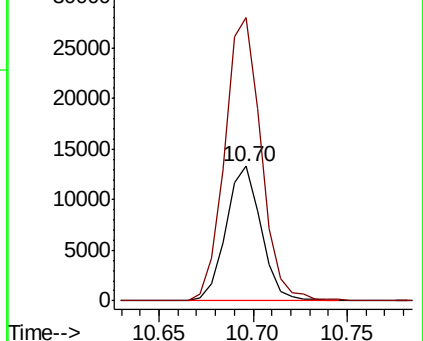
106 100

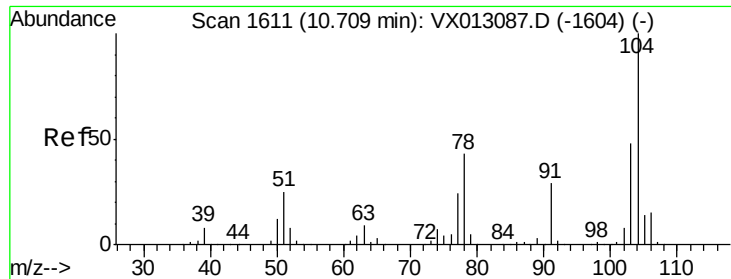
91 217.0 109.1 327.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





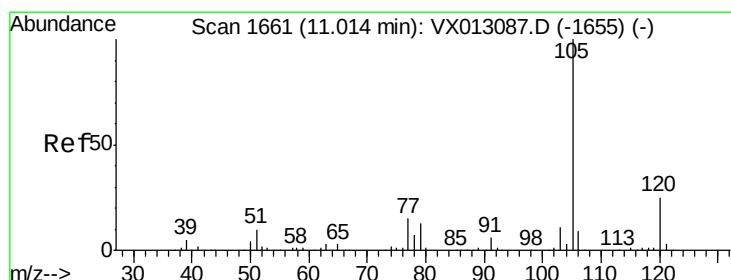
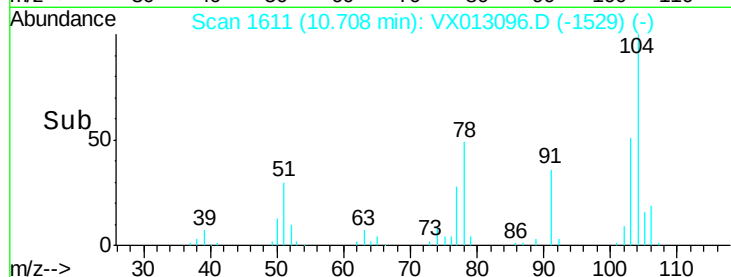
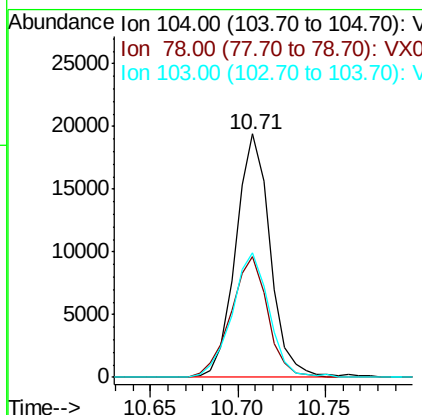
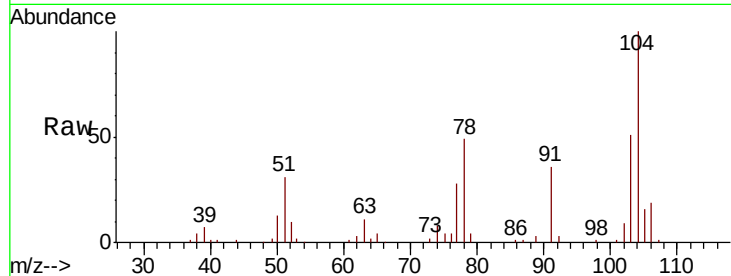
#69
Stvrene
Concen: 4.500 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	41.0	61.4
103	55.0	42.8	64.2

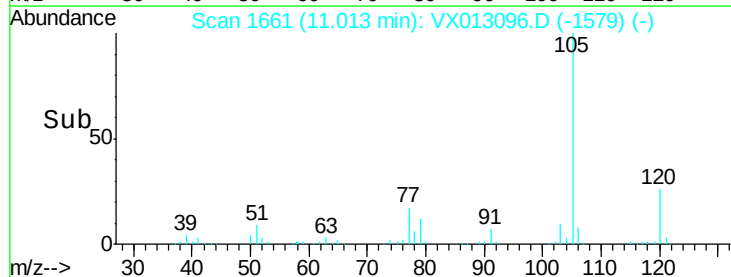
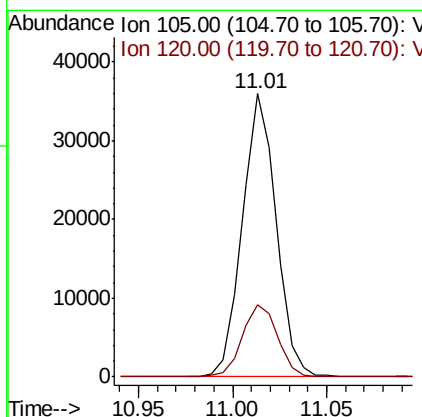
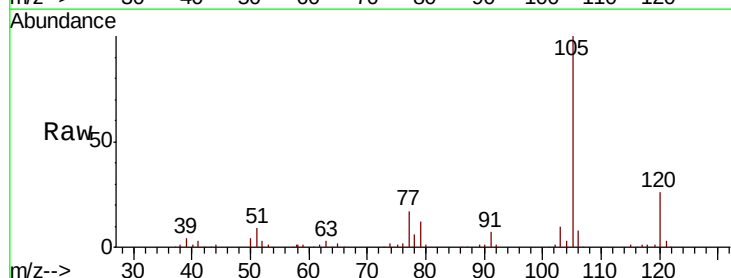
Manual Integrations
APPROVED

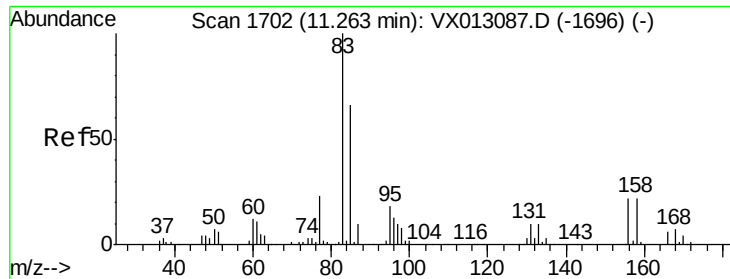
MMDadoda
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#70
Isopropylbenzene
Concen: 4.890 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	17.9	33.3





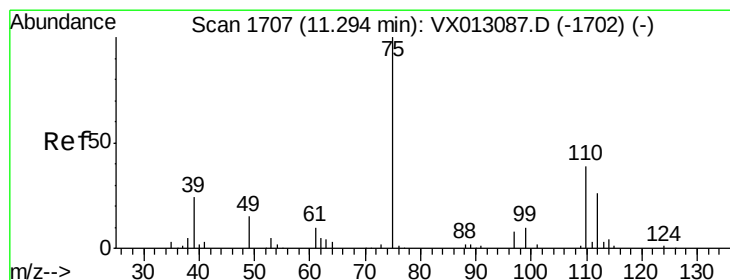
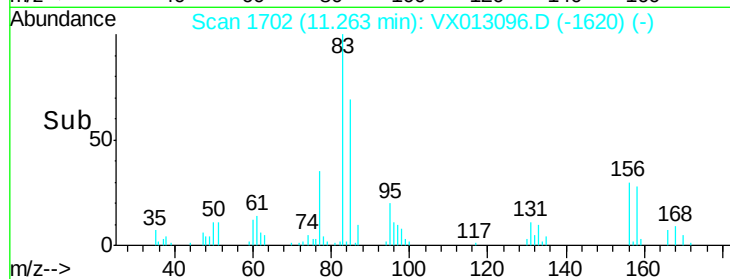
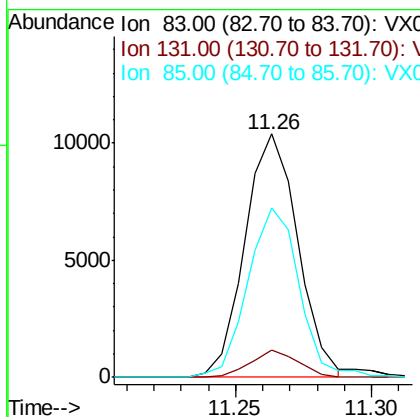
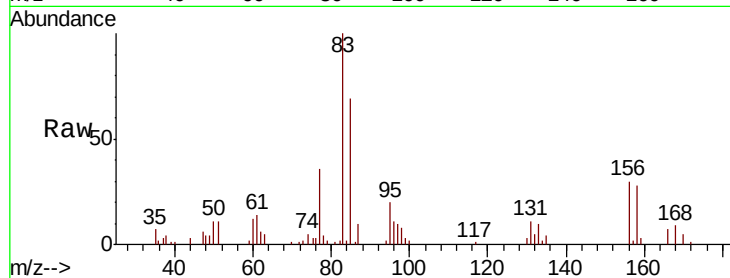
#71
 1,1,2,2-Tetrachloroethane
 Concen: 4.686 ug/l
 RT: 11.26 min Scan# 1702
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	10.1	4.9	14.6	
85	68.2	31.9	95.9	

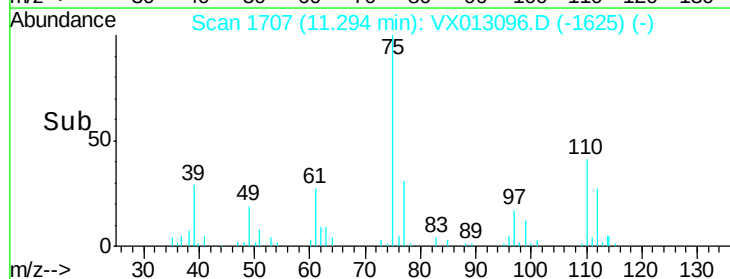
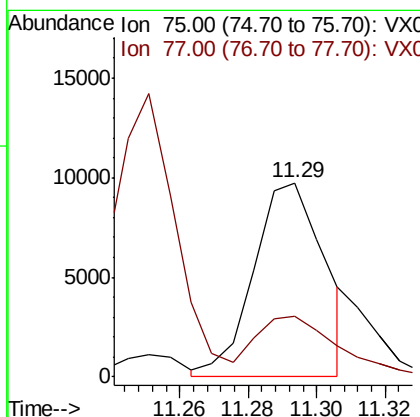
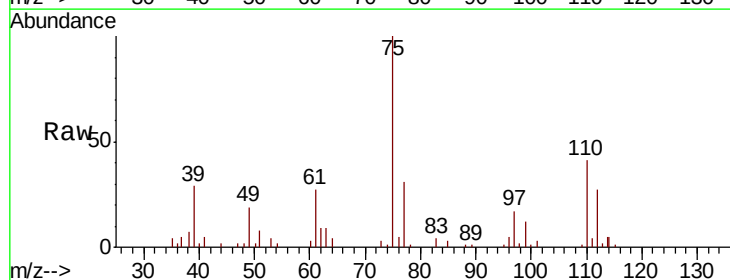
Manual Integrations
 APPROVED

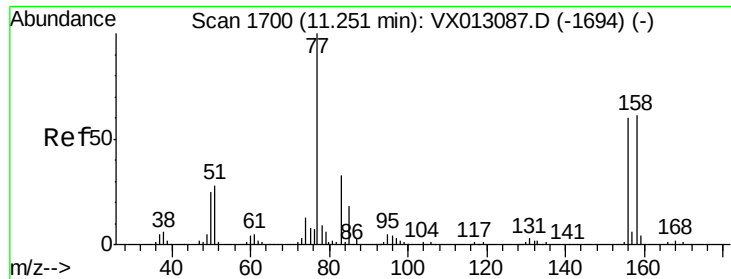
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#72
 1,2,3-Trichloropropane
 Concen: 5.624 ug/l m
 RT: 11.29 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
77	36.0	0.0	87.8	





#73

Bromobenzene

Concen: 4.839 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

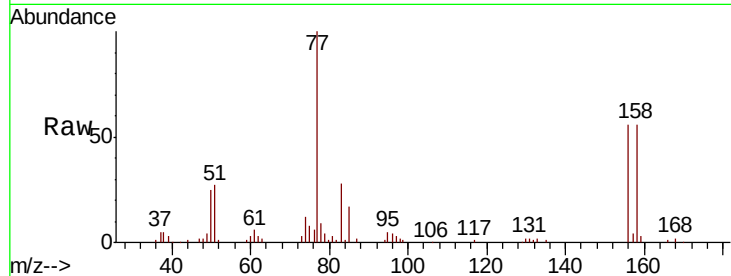
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	171.5	0.0	344.0
158	97.7	0.0	195.6

Manual Integrations
APPROVED

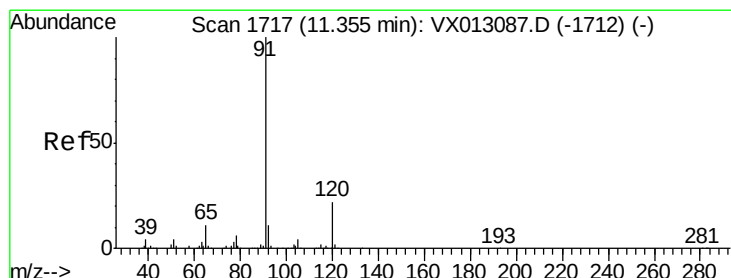
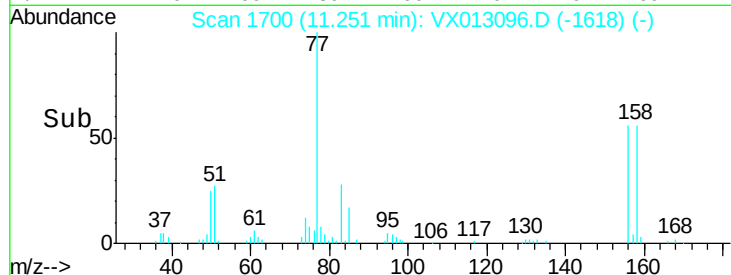
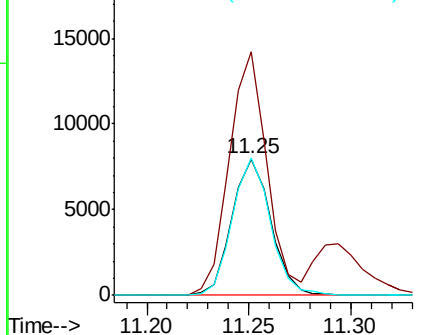
MMDadoda
10/18/2019 4:54:02 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.748 ug/l

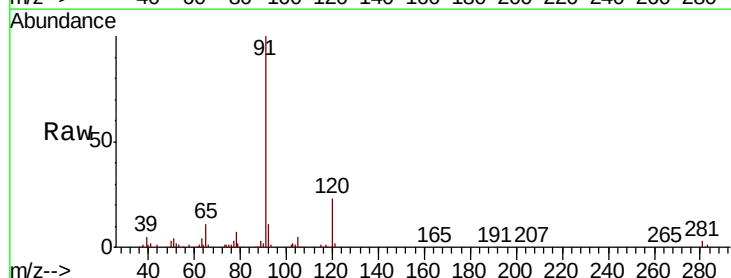
RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013096.D

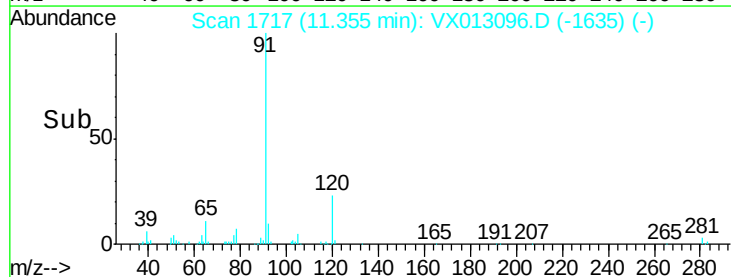
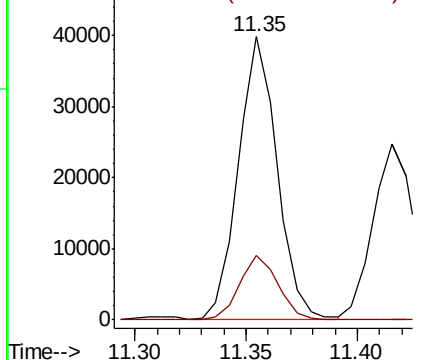
Acq: 16 Oct 2019 15:12

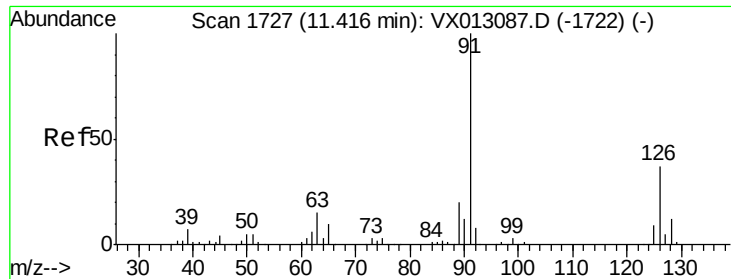
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.6	0.0	45.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 5.098 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 32002

Ion Ratio Lower Upper

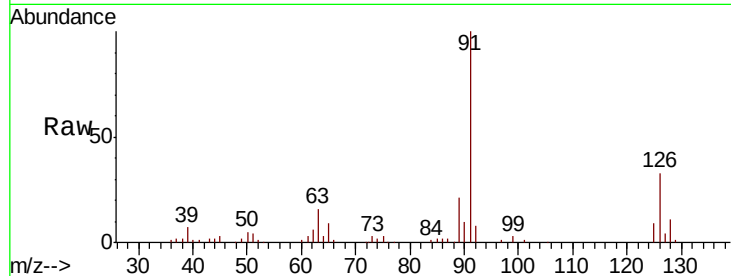
91 100

126 30.9 0.0 66.0

Manual Integrations
APPROVED

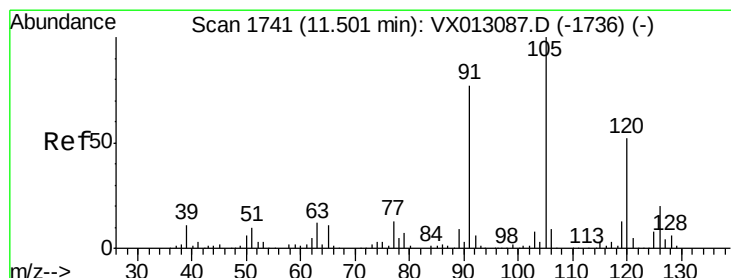
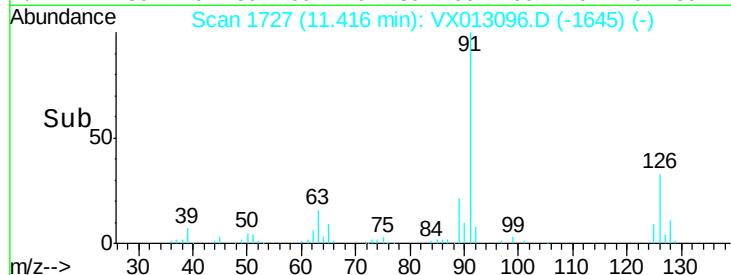
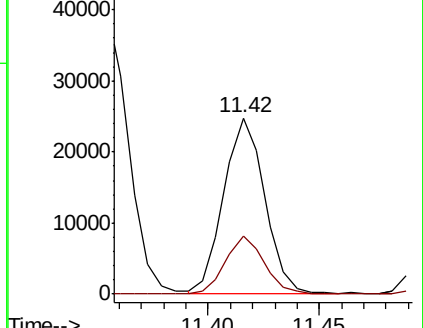
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Abundance Ion 91.00 (90.70 to 91.70): VX013087.D (-1722) (-)

Ion 126.00 (125.70 to 126.70): VX013087.D (-1722) (-)



#76

1,3,5-Trimethylbenzene

Concen: 4.779 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013096.D

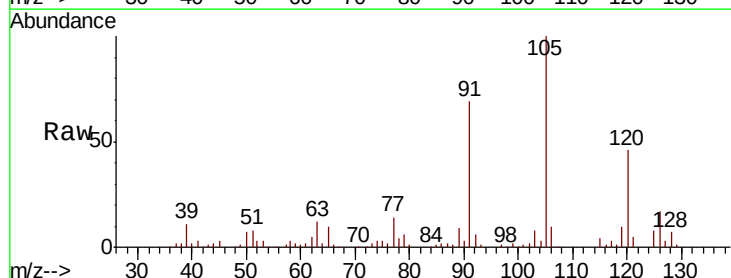
Acq: 16 Oct 2019 15:12

Tgt Ion: 105 Resp: 37304

Ion Ratio Lower Upper

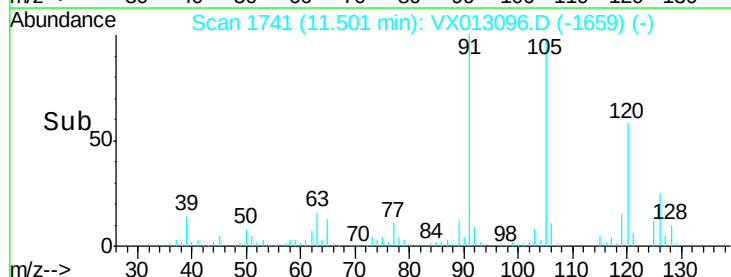
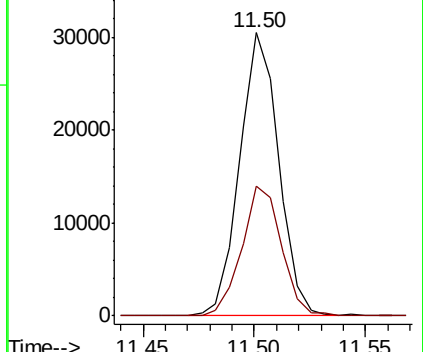
105 100

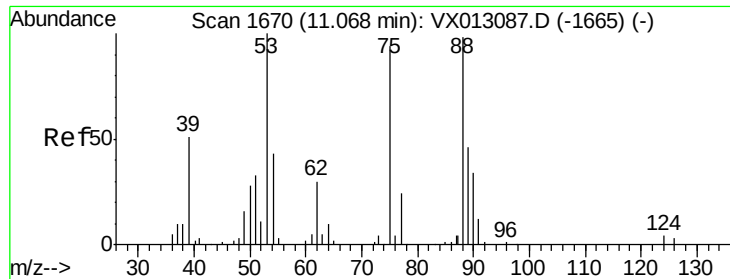
120 46.9 0.0 96.6



Abundance Ion 105.00 (104.70 to 105.70): VX013087.D (-1736) (-)

Ion 120.00 (119.70 to 120.70): VX013087.D (-1736) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 3.757 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

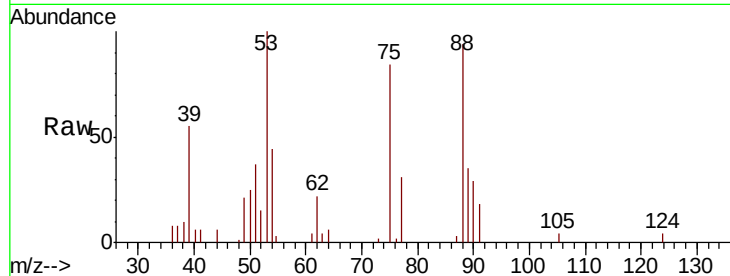
ClientSampleId :

LOQ-WATER-02-QT4-2019

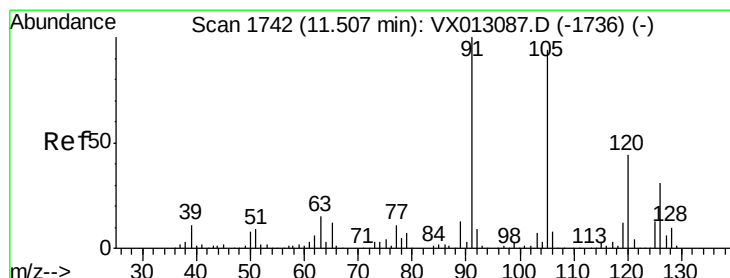
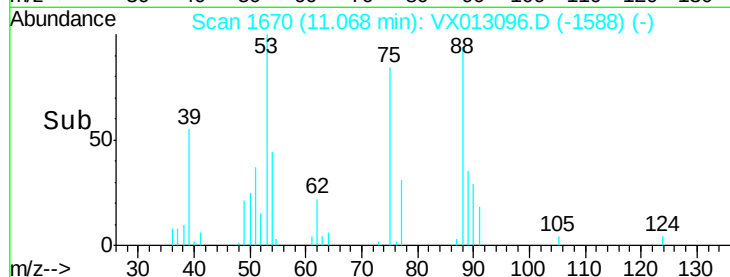
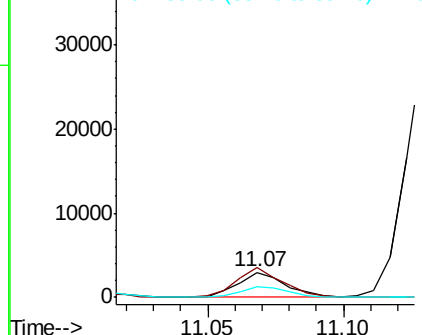
Tot Ion:	75	Resp:	3609
Ion	Ratio	Lower	Upper
75	100		
53	116.7	53.1	159.4
89	41.3	24.6	73.8

Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 4.776 ug/l

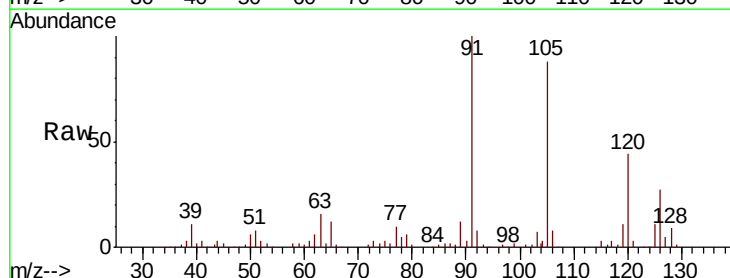
RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

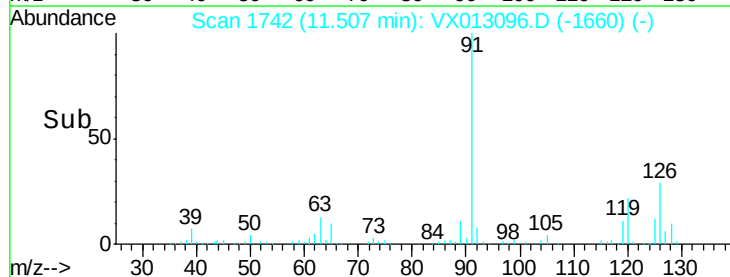
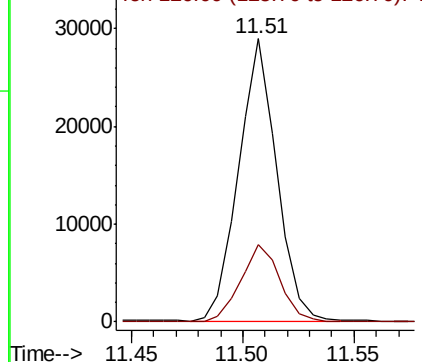
Lab File: VX013096.D

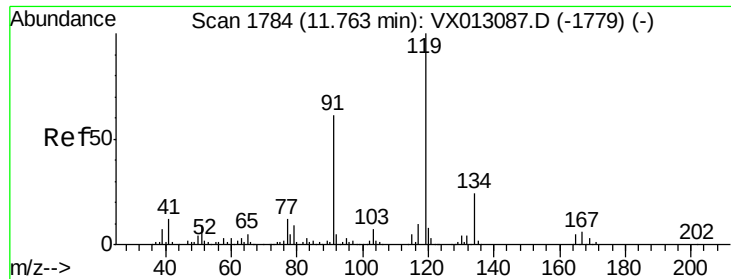
Acq: 16 Oct 2019 15:12

Tgt Ion:	91	Resp:	34667
Ion	Ratio	Lower	Upper
91	100		
126	27.9	0.0	57.0



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 126.00 (125.70 to 126.70): V





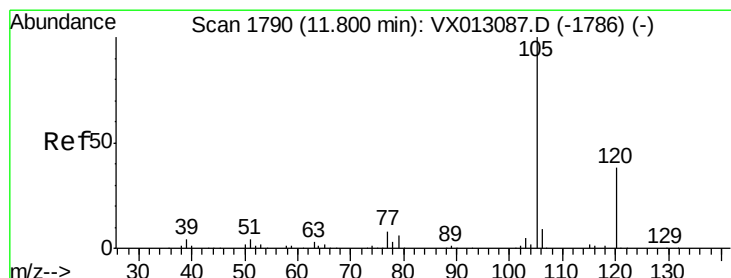
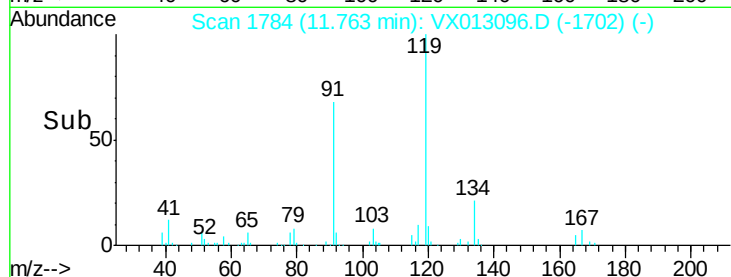
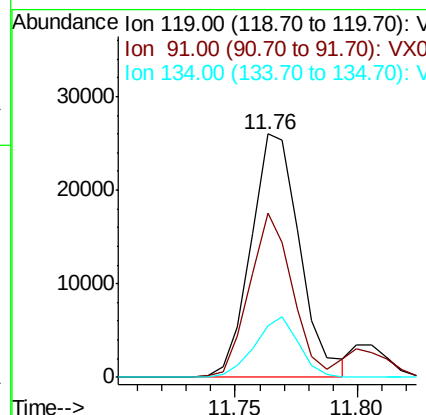
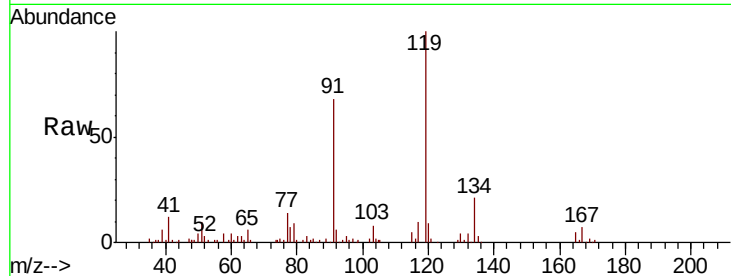
#79
tert-butylbenzene
Concen: 4.956 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	36392		
91	59.1	0.0	122.2	
134	22.3	0.0	46.6	

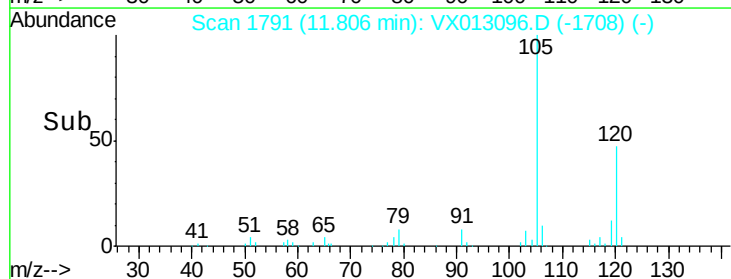
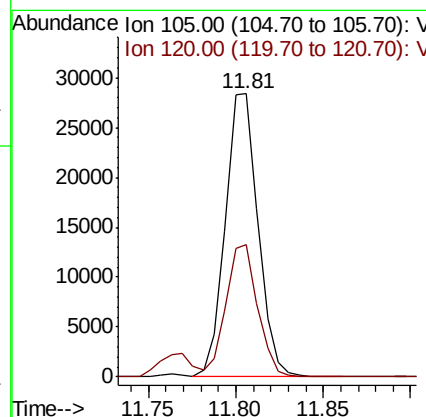
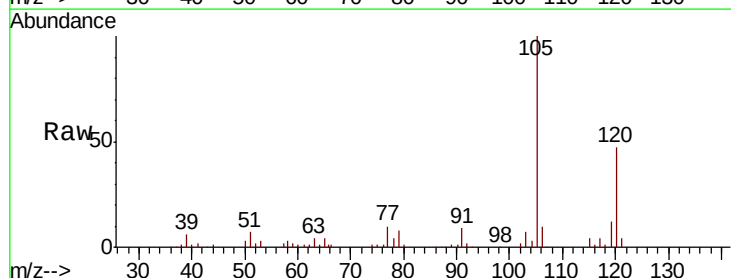
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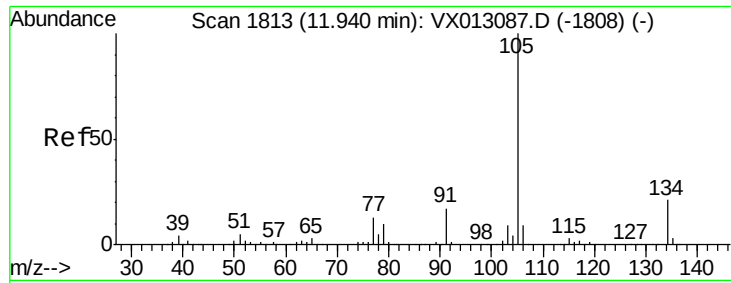
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#80
1,2,4-Trimethylbenzene
Concen: 4.756 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	37022		
120	45.0	0.0	85.8	





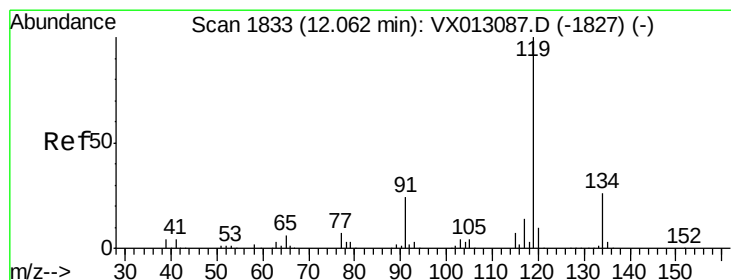
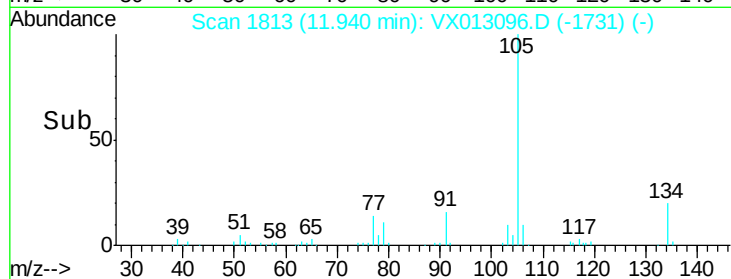
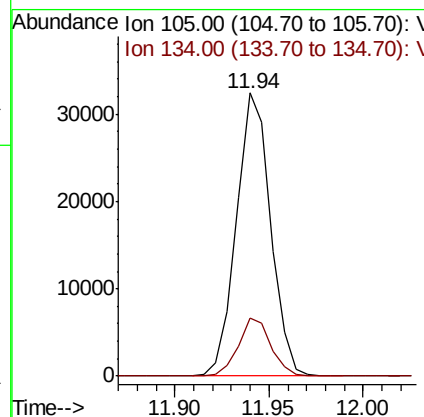
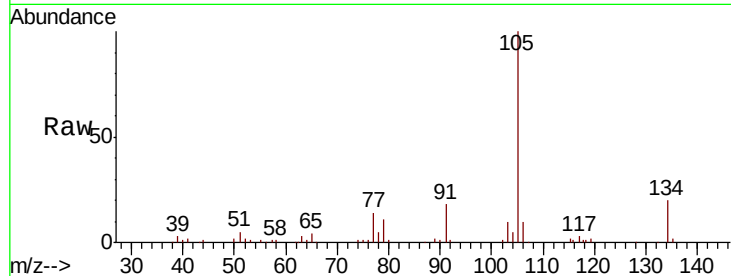
#81
 sec-Butylbenzene
 Concen: 4.619 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	0.0	39.6

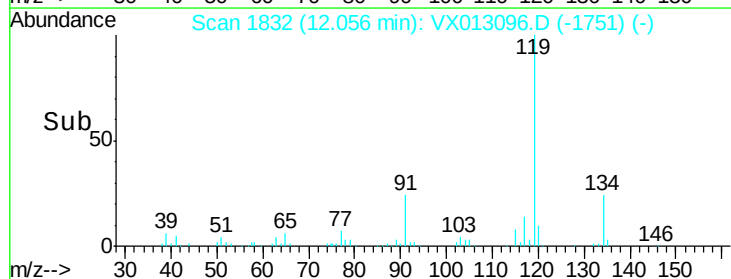
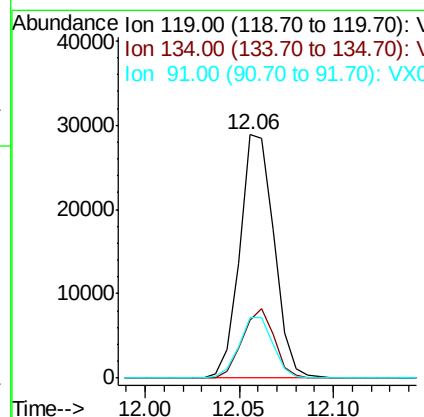
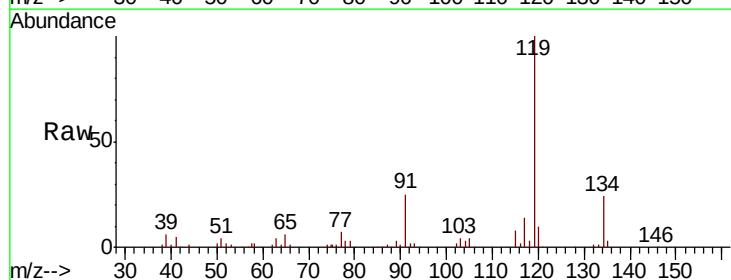
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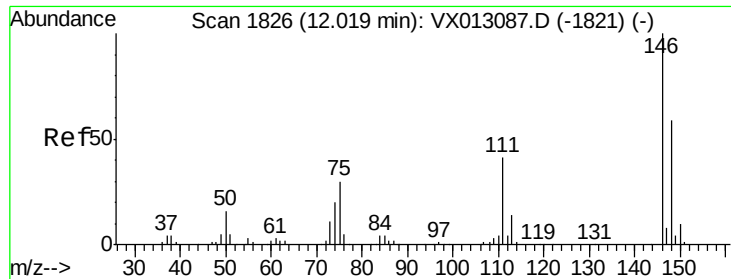
MMDadoda
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#82
 p-Isopropyltoluene
 Concen: 4.518 ug/l
 RT: 12.06 min Scan# 1832
 Delta R.T. -0.01 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	52.0
91	24.8	0.0	50.4





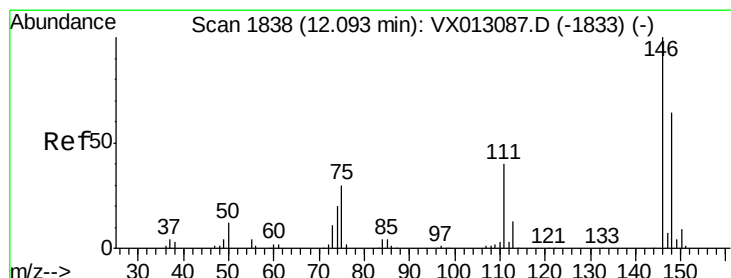
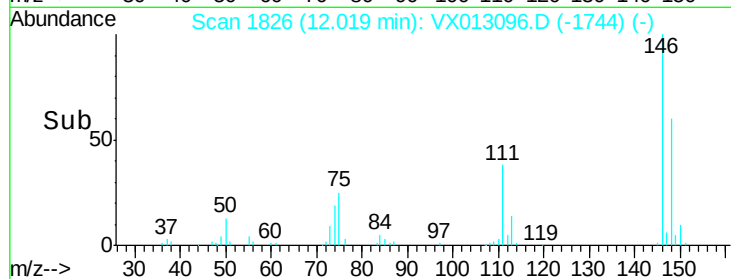
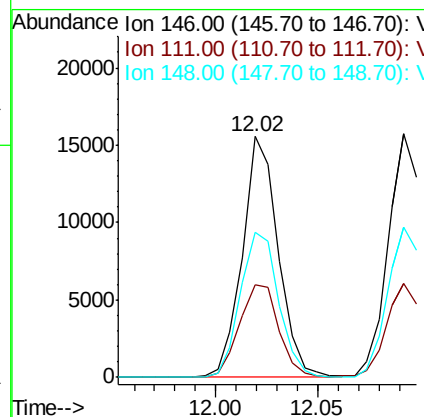
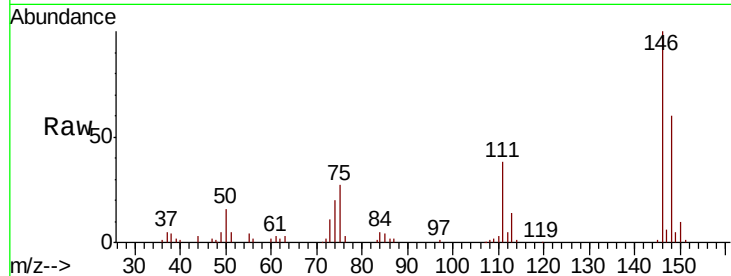
#83
 1,3-Dichlorobenzene
 Concen: 4.795 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.3	63.9
148	64.3	30.4	91.2

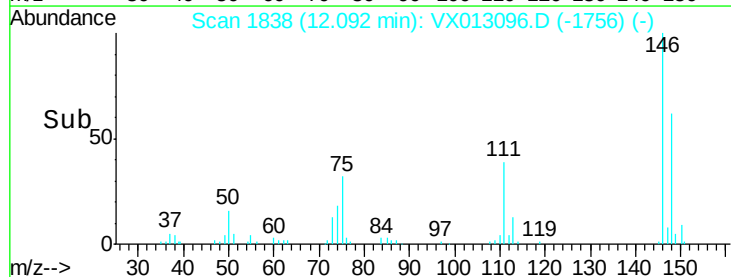
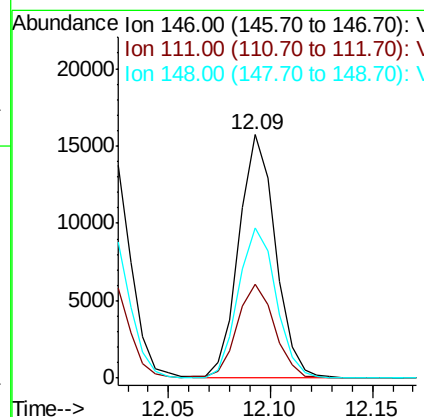
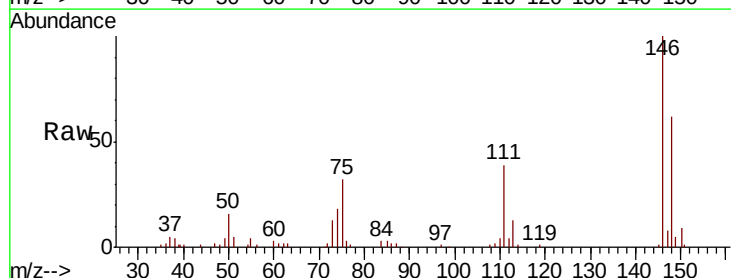
Manual Integrations
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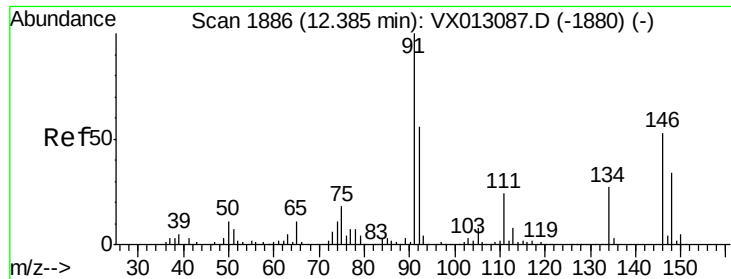
MMDadoda
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#84
 1,4-Dichlorobenzene
 Concen: 4.920 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.0	59.9
148	63.4	31.9	95.7





#85

n-Butylbenzene

Concen: 4.119 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Instrument :

MSVOA_X

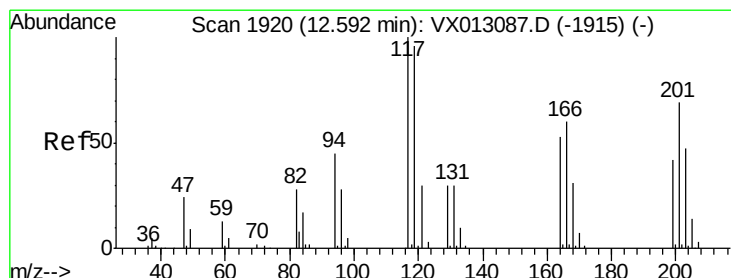
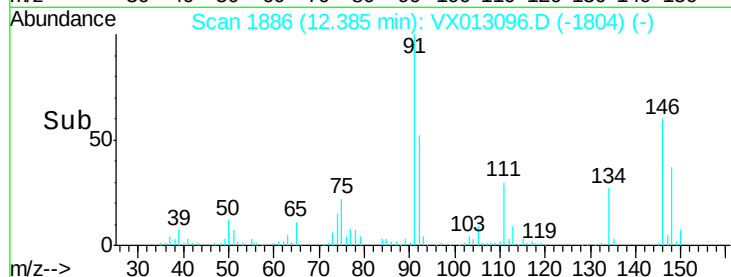
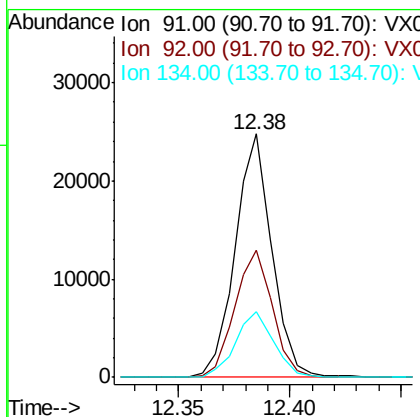
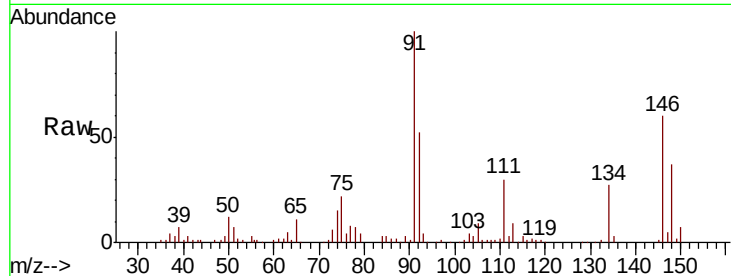
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	91	Resp:	28356
Ion	Ratio	Lower	Upper
91	100		
92	53.8	0.0	109.4
134	28.3	0.0	51.6

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#86

Hexachloroethane

Concen: 4.230 ug/l

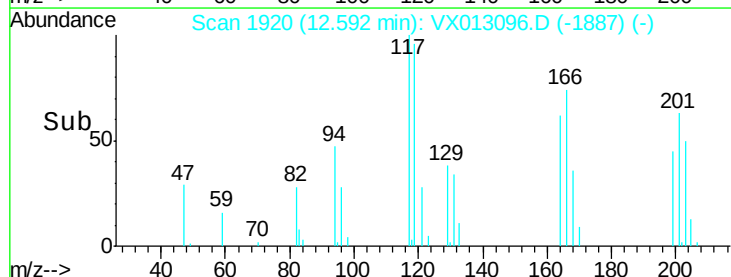
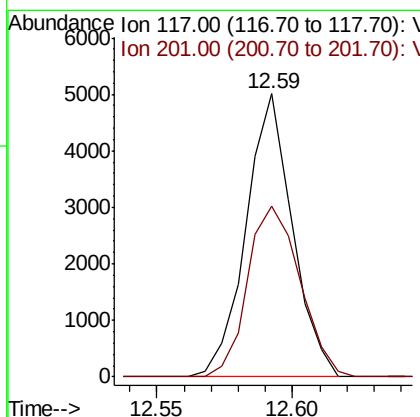
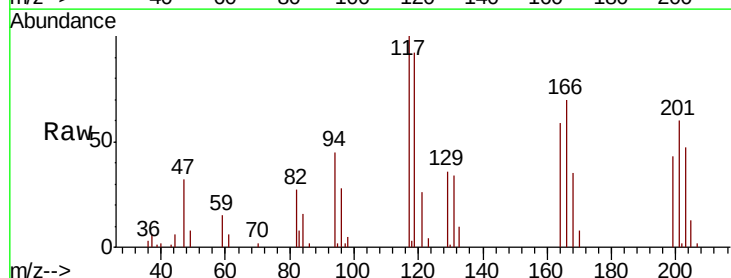
RT: 12.59 min Scan# 1920

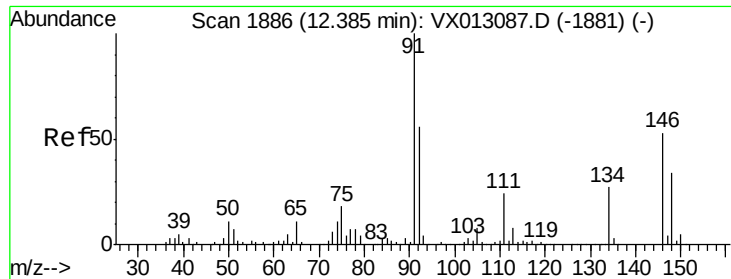
Delta R.T. -0.00 min

Lab File: VX013096.D

Acq: 16 Oct 2019 15:12

Tgt Ion:	117	Resp:	5912
Ion	Ratio	Lower	Upper
117	100		
201	68.4	34.2	102.5





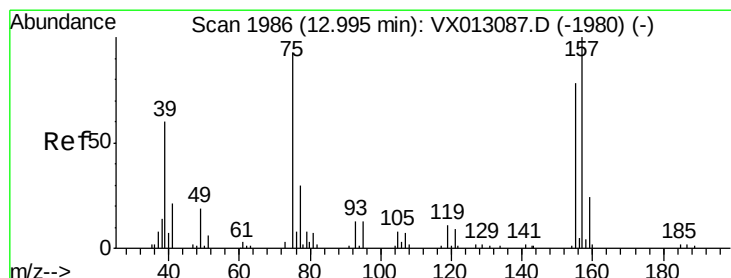
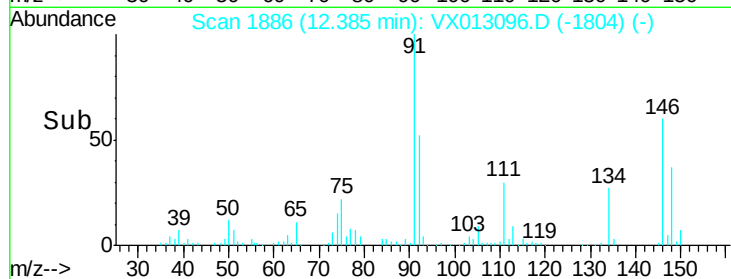
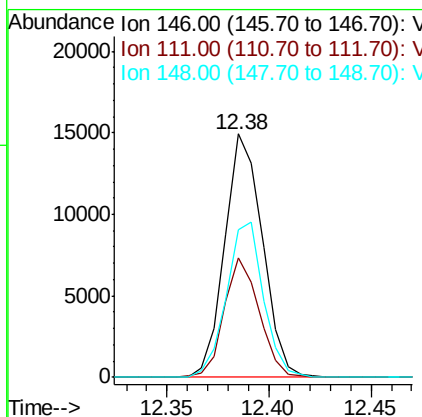
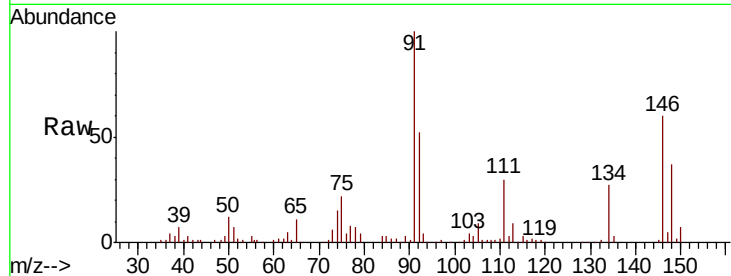
#87
 1,2-Dichlorobenzene
 Concen: 4.894 ug/l
 RT: 12.38 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.3	66.9
148	62.4	32.7	98.1

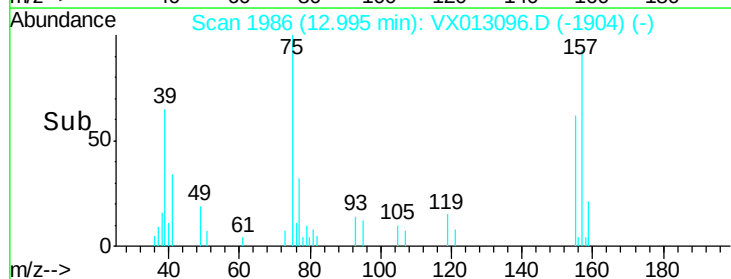
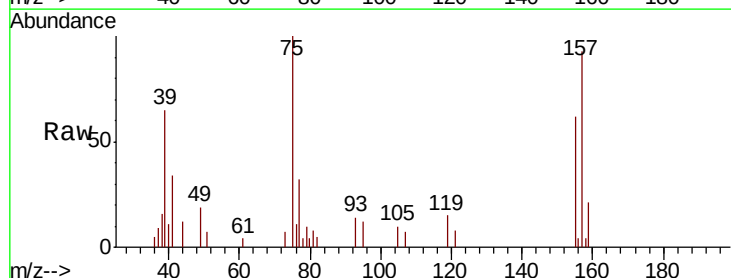
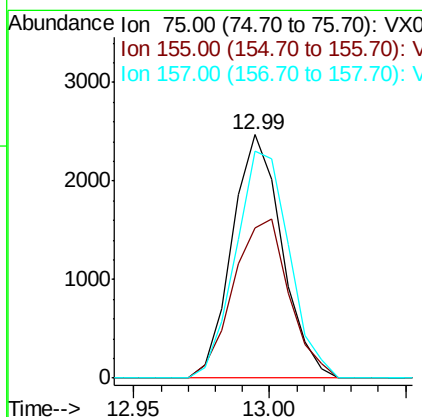
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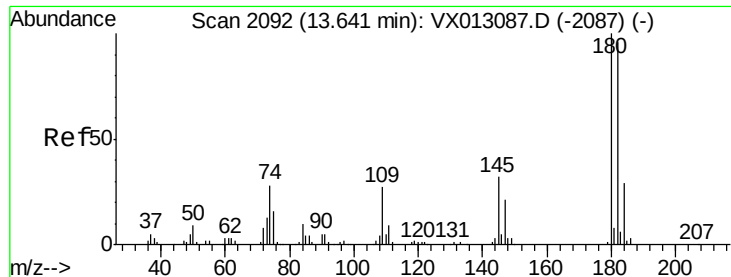
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.586 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VX013096.D
 Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.8	68.4	102.6
157	99.8	85.6	128.4





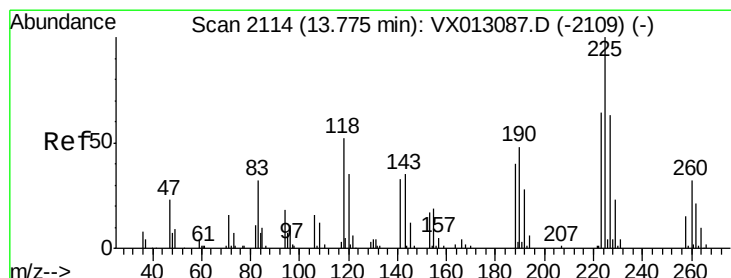
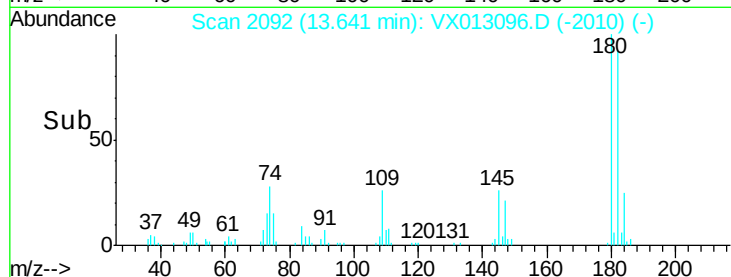
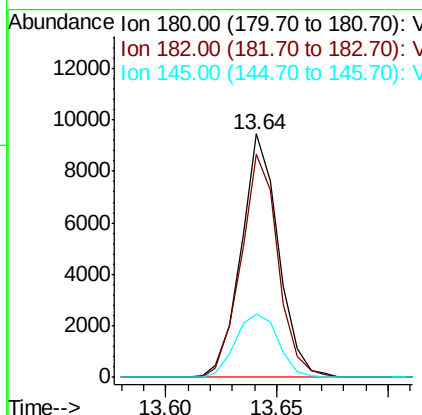
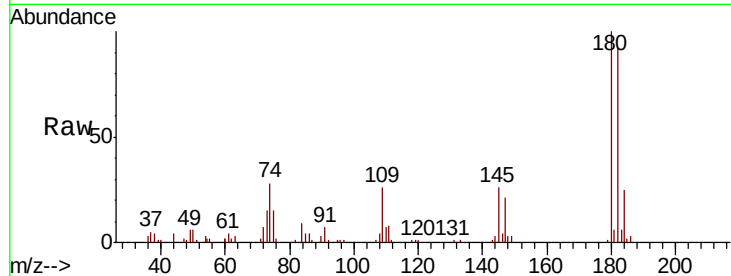
#89
1,2,4-Trichlorobenzene
Concen: 4.540 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.5	74.8	112.2
145	29.7	26.2	39.2

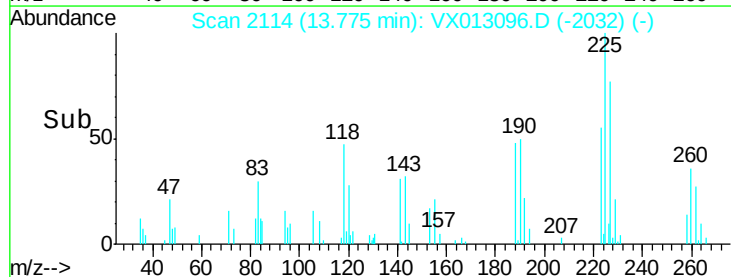
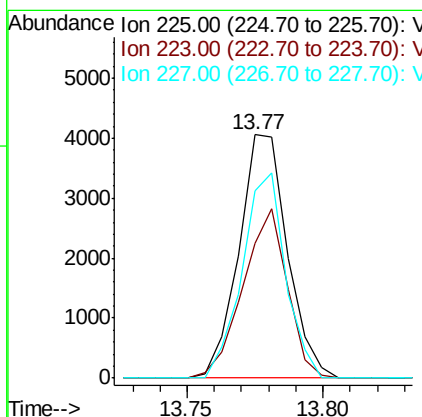
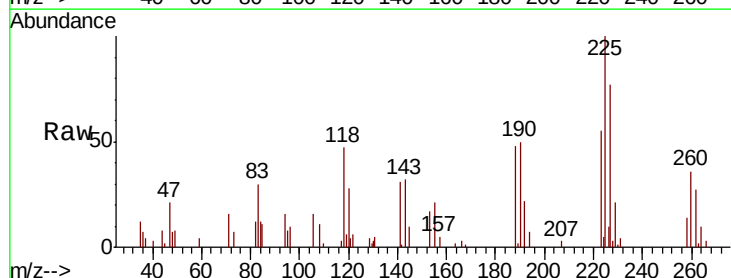
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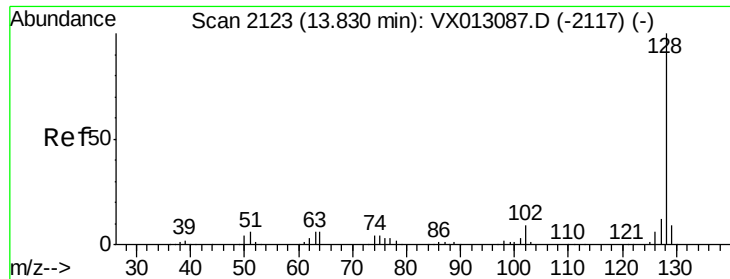
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#90
Hexachlorobutadiene
Concen: 4.332 ug/l
RT: 13.77 min Scan# 2114
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	0.0	132.2
227	75.3	0.0	124.2





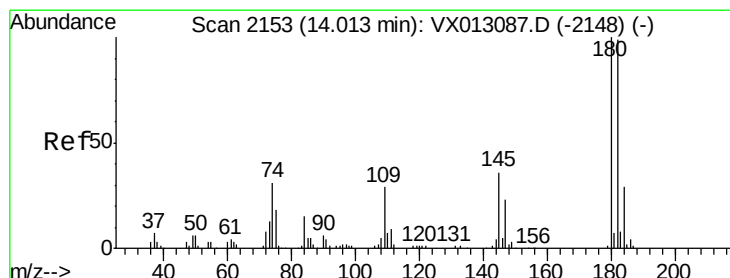
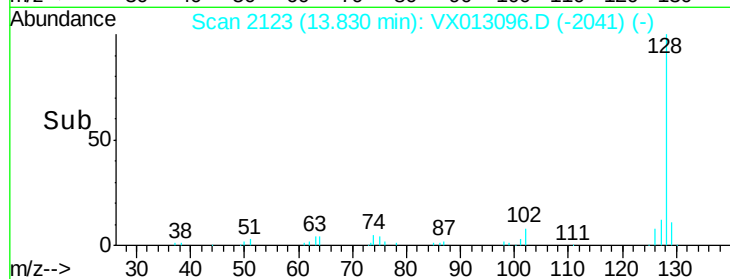
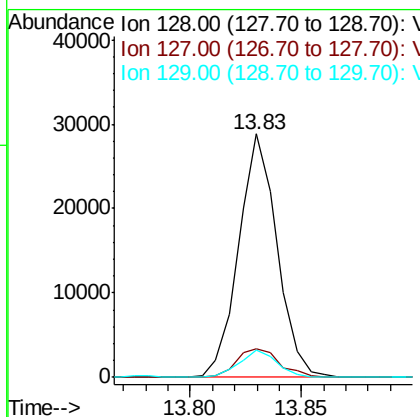
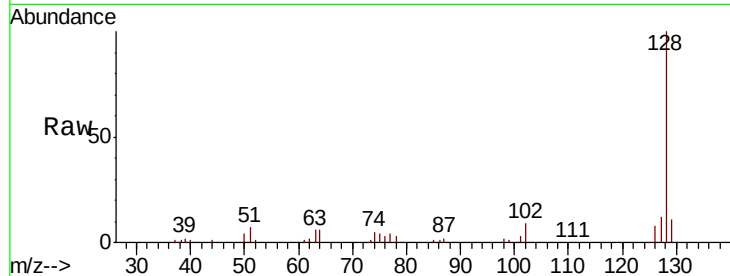
#91
Naphthalene
Concen: 4.165 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Instrument :
MSVOA_X
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.0	15.0
129	10.8	8.0	12.0

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#92
1,2,3-Trichlorobenzene
Concen: 4.623 ug/l
RT: 14.02 min Scan# 2154
Delta R.T. 0.01 min
Lab File: VX013096.D
Acq: 16 Oct 2019 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	0.0	195.2
145	35.9	0.0	69.8

