

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042919\
 Data File : VX009230.D
 Acq On : 30 Apr 2019 00:09
 Operator : JC/SP
 Sample : K2594-05MSD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Manual Integrations
 APPROVED

MMDadoda
 4/30/2019 11:04:05 AM

Quant Time: Apr 30 09:18:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	185163	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	307207	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	280289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135285	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127615	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
35) Dibromofluoromethane	5.50	113	95622	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.71	98	382056	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	11.13	95	140131	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	80041	46.909	ug/l	99
3) Chloromethane	1.32	50	113540	48.739	ug/l	99
4) Vinyl Chloride	1.41	62	116903	51.463	ug/l	99
5) Bromomethane	1.64	94	65960	48.378	ug/l	95
6) Chloroethane	1.71	64	70070	48.044	ug/l	100
7) Trichlorofluoromethane	1.92	101	133541	48.362	ug/l	98
8) Diethyl Ether	2.19	74	63993	48.926	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	79195	45.672	ug/l	99
10) Methyl Iodide	2.51	142	97509	48.546	ug/l	100
11) Tert butyl alcohol	3.05	59	139149	237.821	ug/l	100
12) 1,1-Dichloroethene	2.37	96	86943	50.043	ug/l	96
13) Acrolein	2.29	56	120478	227.366	ug/l	100
14) Allyl chloride	2.73	41	203483	48.060	ug/l	100
15) Acrylonitrile	3.14	53	358426	250.540	ug/l	100
16) Acetone	2.45	43	298002	219.559	ug/l	99
17) Carbon Disulfide	2.57	76	246166	50.467	ug/l	99
18) Methyl Acetate	2.77	43	154700	47.926	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	341206	50.574	ug/l	99
20) Methylene Chloride	2.85	84	105052	47.803	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	94783	50.305	ug/l	98
22) Diisopropyl ether	3.85	45	412587	50.671	ug/l	99
23) Vinyl Acetate	3.81	43	1760305	252.466	ug/l	100
24) 1,1-Dichloroethane	3.70	63	200946	50.027	ug/l	100
25) 2-Butanone	4.67	43	520245	246.660	ug/l	100
26) 2,2-Dichloropropane	4.58	77	117815	39.405	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	118653	52.759	ug/l	97
28) Bromochloromethane	5.01	49	82186	50.876	ug/l	99
29) Tetrahydrofuran	5.13	42	348668	256.896	ug/l	100
30) Chloroform	5.21	83	181612	49.991	ug/l	99
31) Cyclohexane	5.57	56	181832	48.657	ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	149722	49.508	ug/l	99
36) 1,1-Dichloropropene	5.80	75	137866	48.291	ug/l	98
37) Ethyl Acetate	4.84	43	192573	48.413	ug/l	99
38) Carbon Tetrachloride	5.79	117	124384	47.953	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	157634	44.960	ug/l	99
40) Benzene	6.14	78	428531	48.501	ug/l	99
41) Methacrylonitrile	5.04	41	111757	47.198	ug/l	97
42) 1,2-Dichloroethane	6.19	62	154447	48.730	ug/l	100
43) Isopropyl Acetate	6.45	43	312254	49.076	ug/l	100
44) Trichloroethene	7.21	130	100447	47.026	ug/l	100
45) 1,2-Dichloropropane	7.51	63	122108	48.807	ug/l	99
46) Dibromomethane	7.66	93	69795	48.040	ug/l	100
47) Bromodichloromethane	7.90	83	142607	49.208	ug/l	99
48) Methyl methacrylate	7.77	41	159947	50.670	ug/l	99
49) 1,4-Dioxane	7.74	88	52955	827.210	ug/l	97
51) 4-Methyl-2-Pentanone	8.64	43	1035932	249.098	ug/l	100
52) Toluene	8.79	92	257938	48.026	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	159707	48.811	ug/l	100
54) cis-1,3-Dichloropropene	8.43	75	174844	48.279	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	106591	48.646	ug/l	97
56) Ethyl methacrylate	9.18	69	194160	49.640	ug/l	99
57) 1,3-Dichloropropane	9.37	76	187027	48.504	ug/l	100
59) 2-Hexanone	9.49	43	804658	246.357	ug/l	100
60) Dibromochloromethane	9.58	129	106510	49.769	ug/l	99
61) 1,2-Dibromoethane	9.67	107	108811	49.195	ug/l	100
64) Tetrachloroethene	9.34	164	85663	44.554	ug/l	99
65) Chlorobenzene	10.13	112	279900	49.919	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	98068	48.243	ug/l	100
67) Ethyl Benzene	10.25	91	491722	47.652	ug/l	99
68) m/p-Xylenes	10.36	106	362154	96.039	ug/l	99
69) o-Xylene	10.69	106	179325	48.198	ug/l	100
70) Styrene	10.71	104	314089	48.571	ug/l	99
71) Bromoform	10.85	173	80910	48.979	ug/l #	99
73) Isopropylbenzene	11.02	105	471511	47.929	ug/l	100
74) N-amyl acetate	10.90	43	279981	48.815	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	179131	48.844	ug/l	100
76) 1,2,3-Trichloropropane	11.29	75	153898m	49.041	ug/l	
77) Bromobenzene	11.26	156	116964	47.901	ug/l	100
78) n-propylbenzene	11.36	91	540107	48.073	ug/l	100
79) 2-Chlorotoluene	11.42	91	325715	46.990	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	397331	47.967	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	56855	46.356	ug/l	99
82) 4-Chlorotoluene	11.51	91	371485	47.440	ug/l	100
83) tert-Butylbenzene	11.77	119	385540	47.845	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	401861	48.333	ug/l	100
85) sec-Butylbenzene	11.94	105	452849	47.402	ug/l	100
86) p-Isopropyltoluene	12.06	119	408027	47.508	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	205496	47.209	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	209245	47.680	ug/l	100
89) n-Butylbenzene	12.38	91	366186	47.173	ug/l	100
90) Hexachloroethane	12.60	117	71239	48.687	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	211721	47.754	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.00	75	42292	51.406	ug/l	99
93) 1,2,4-Trichlorobenzene	13.65	180	150518	49.645	ug/l	98

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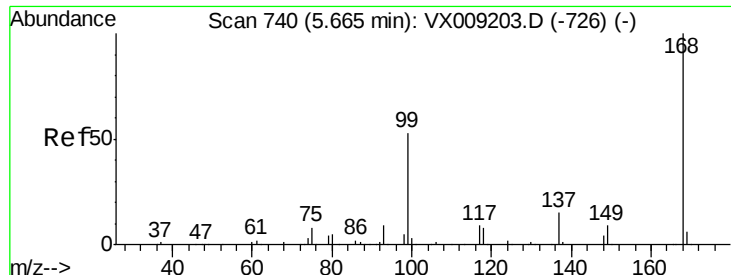
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.78	225	71502	46.182	ug/l	99
95) Naphthalene	13.83	128	505391	51.236	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	151293	49.228	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:168 Resp: 185163

Ion Ratio Lower Upper

168 100

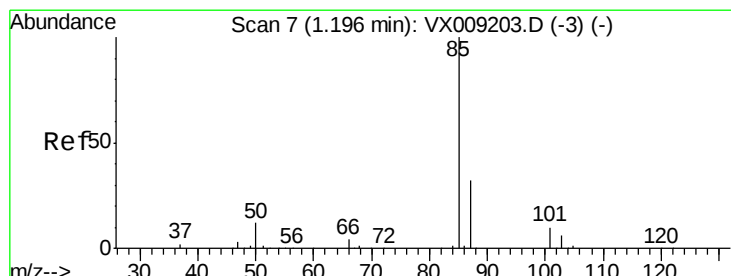
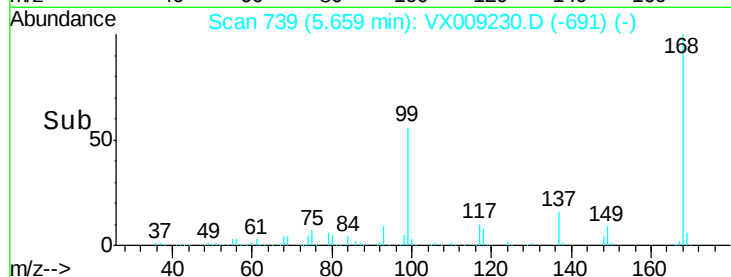
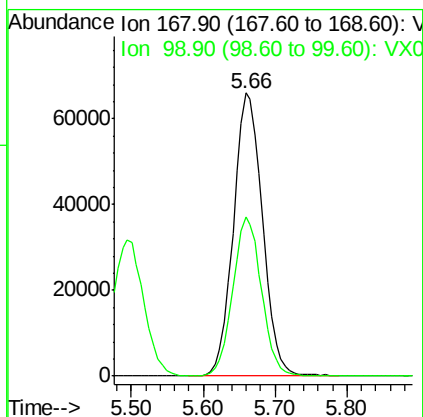
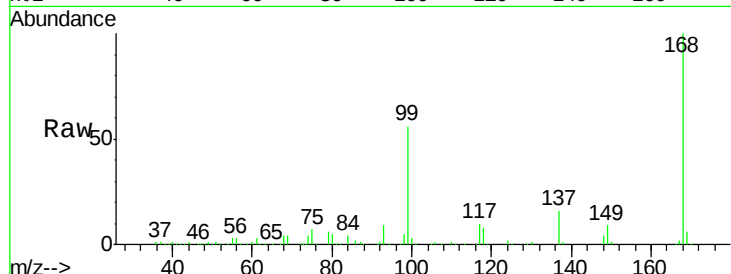
99 56.3 42.3 63.5

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 46.909 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX009230.D

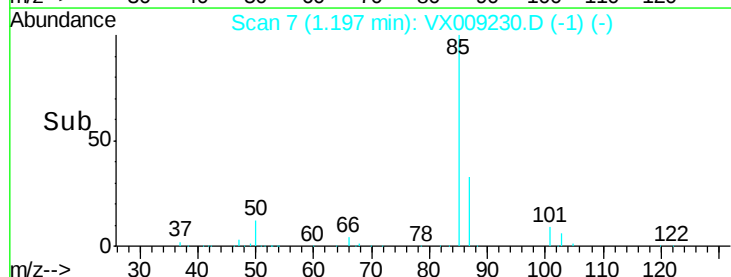
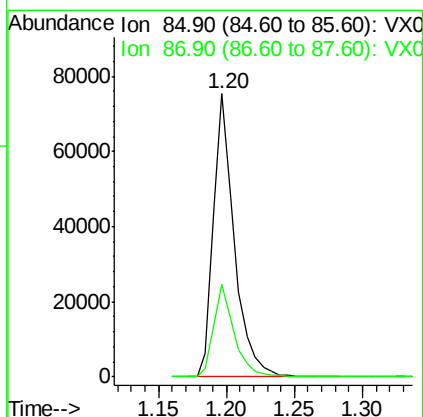
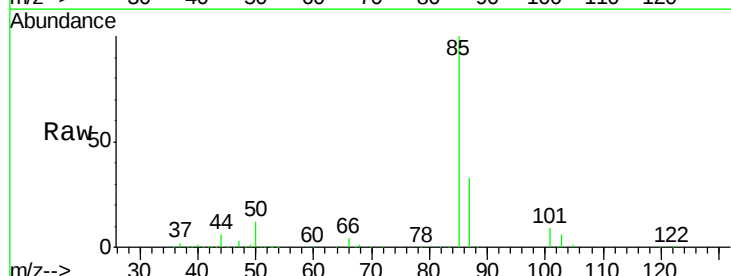
Acq: 30 Apr 2019 00:09

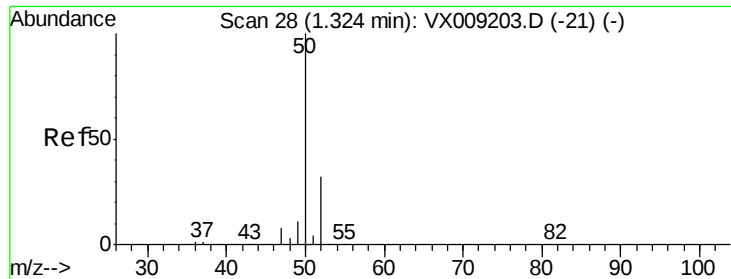
Tgt Ion: 85 Resp: 80041

Ion Ratio Lower Upper

85 100

87 32.7 16.1 48.3





#3

Chloromethane

Concen: 48.739 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

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ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 50 Resp: 113540

Ion Ratio Lower Upper

50 100

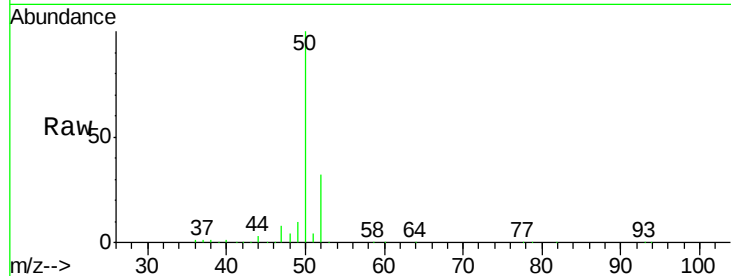
52 31.9 25.9 38.9

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

120000

100000

80000

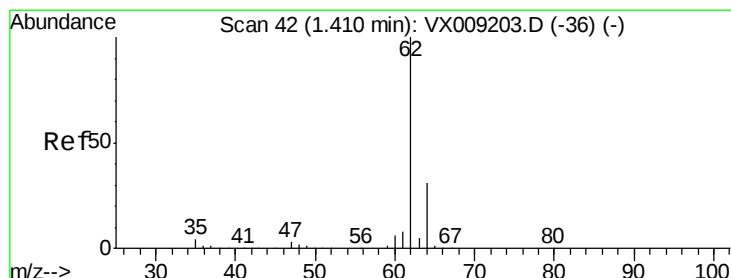
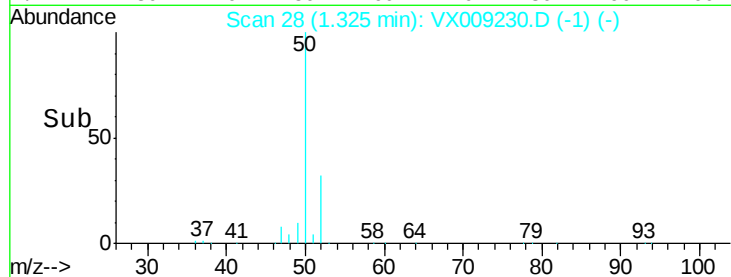
60000

40000

20000

0

Time--> 1.25 1.30 1.35 1.40



#4

Vinyl Chloride

Concen: 51.463 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009230.D

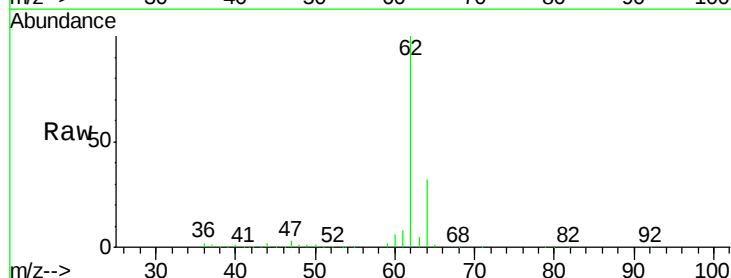
Acq: 30 Apr 2019 00:09

Tgt Ion: 62 Resp: 116903

Ion Ratio Lower Upper

62 100

64 31.5 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

120000

100000

80000

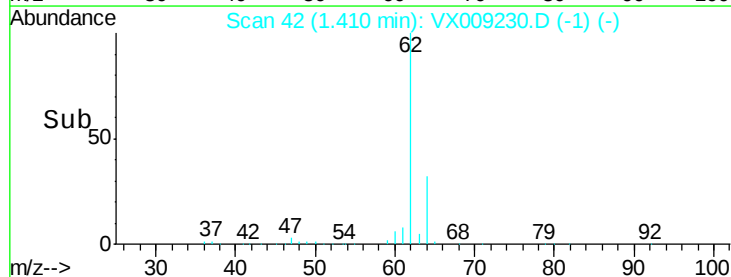
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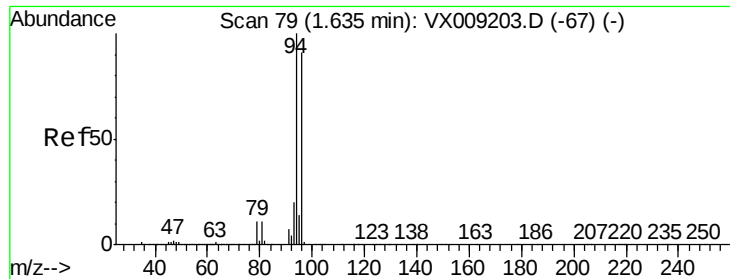
40000

20000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 48.378 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009230.D

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Instrument :

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ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 94 Resp: 65960

Ion Ratio Lower Upper

94 100

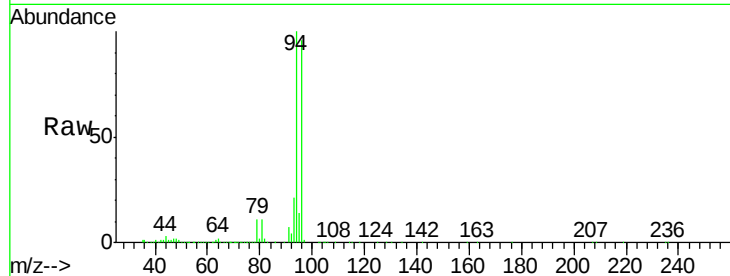
96 95.8 73.0 109.6

Manual Integrations

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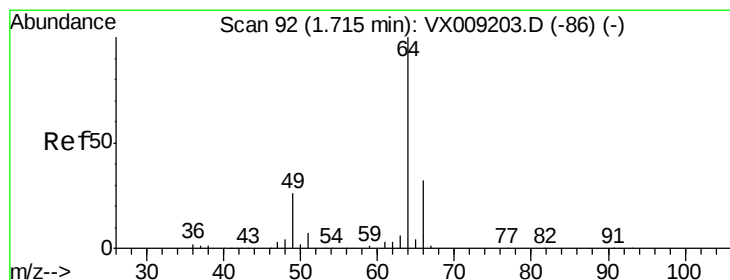
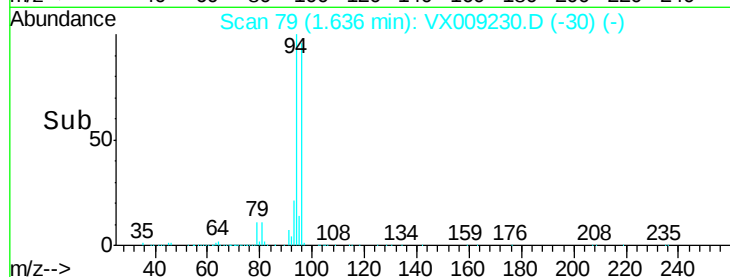
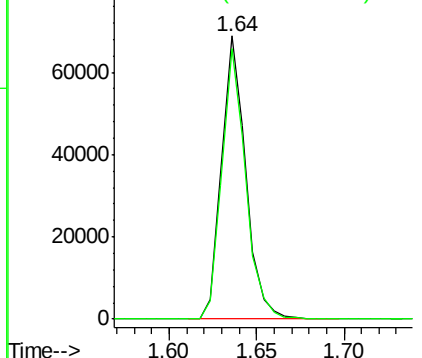
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 48.044 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX009230.D

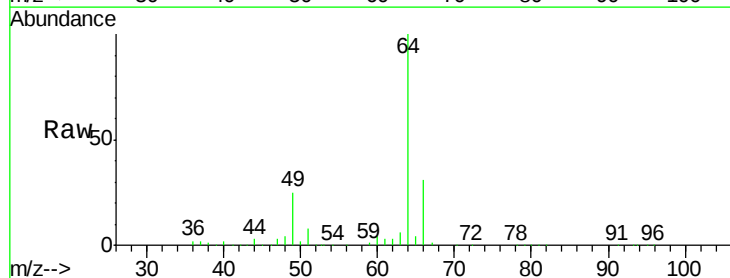
Acq: 30 Apr 2019 00:09

Tgt Ion: 64 Resp: 70070

Ion Ratio Lower Upper

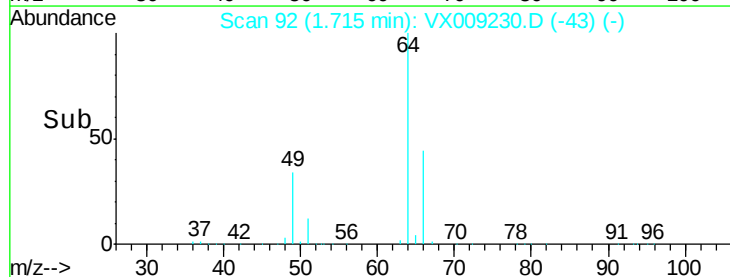
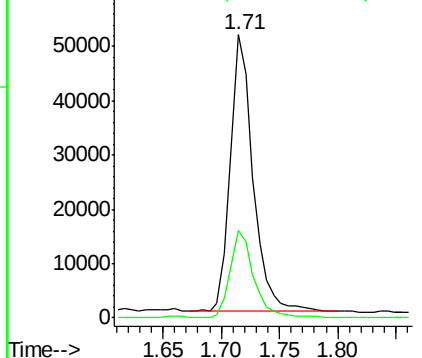
64 100

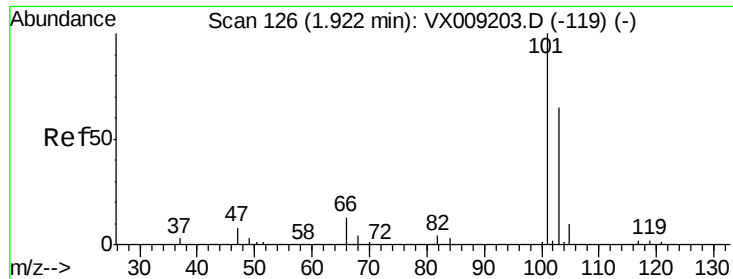
66 31.6 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

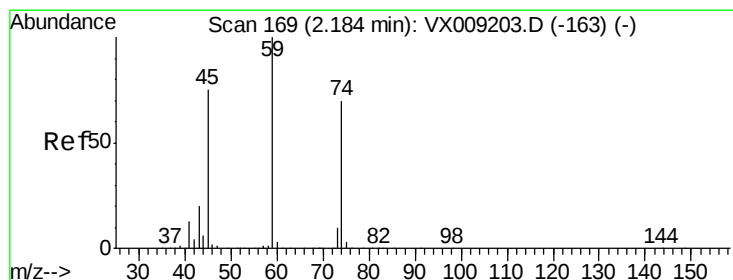
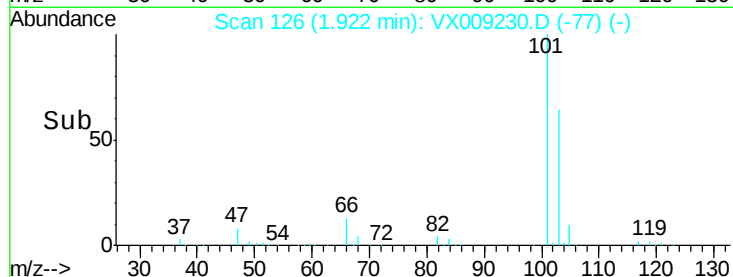
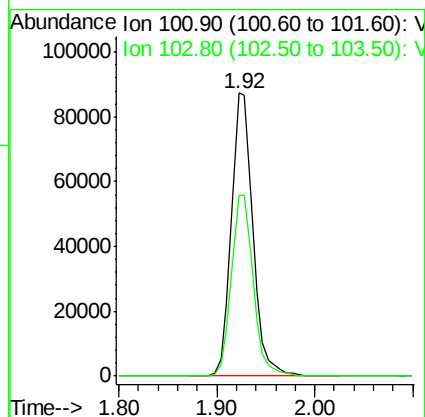
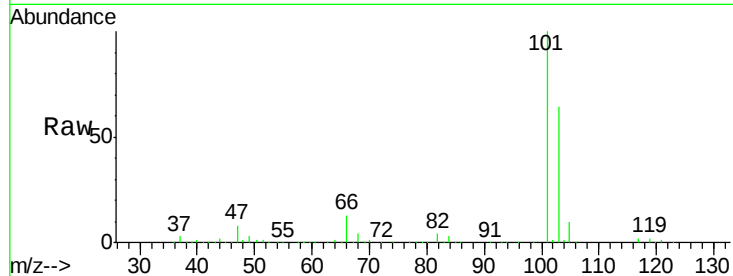
Trichlorofluoromethane
Concen: 48.362 ug/l
RT: 1.92 min Scan# 126
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion:101 Resp: 133541
Ion Ratio Lower Upper
101 100
103 63.8 52.4 78.6

Manual Integrations
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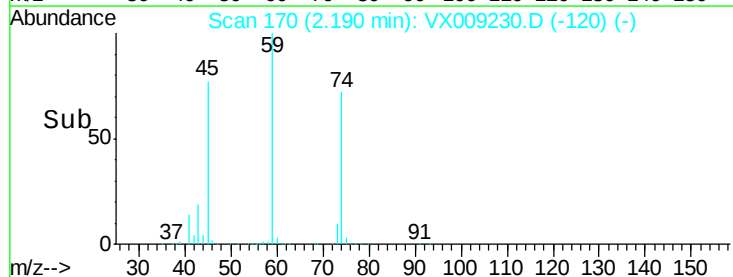
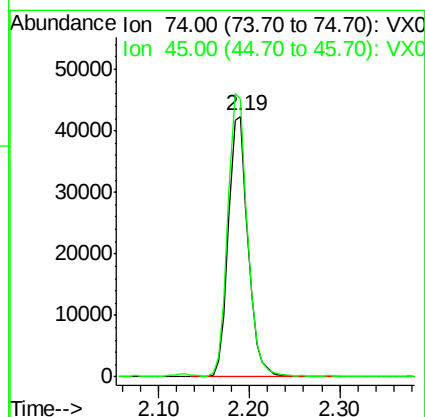
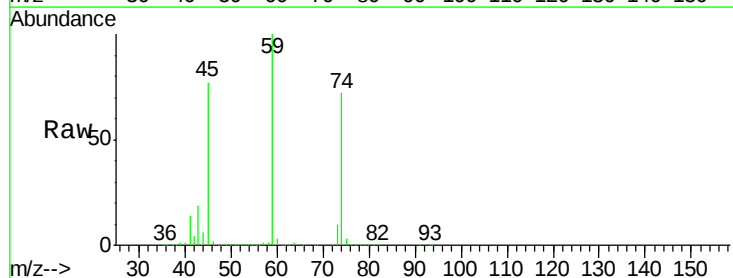
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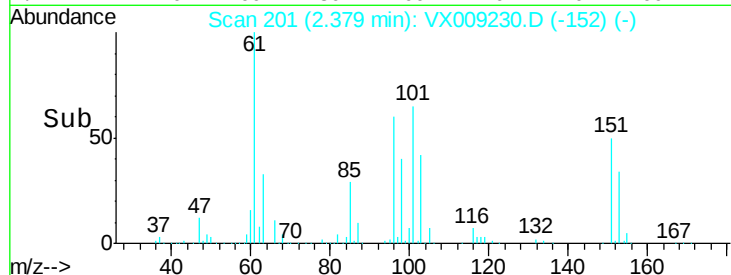
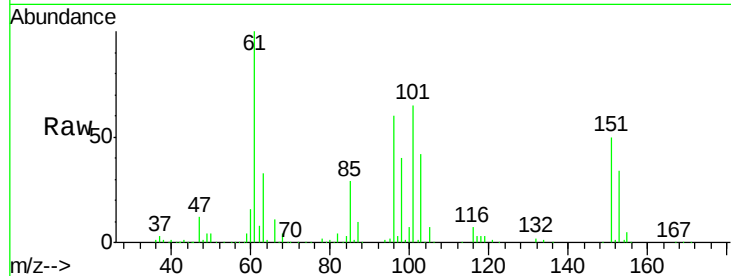
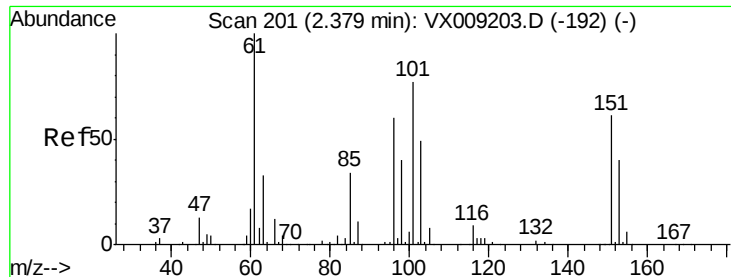


#8

Diethyl Ether
Concen: 48.926 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.01 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion: 74 Resp: 63993
Ion Ratio Lower Upper
74 100
45 107.9 53.3 159.9





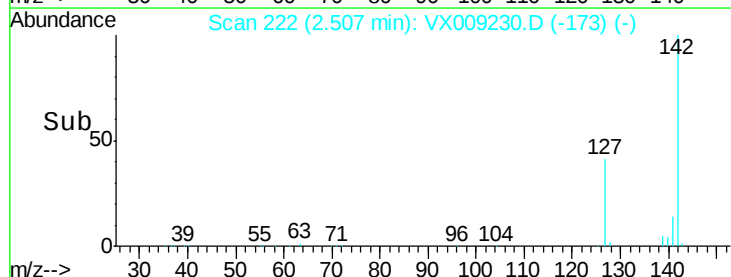
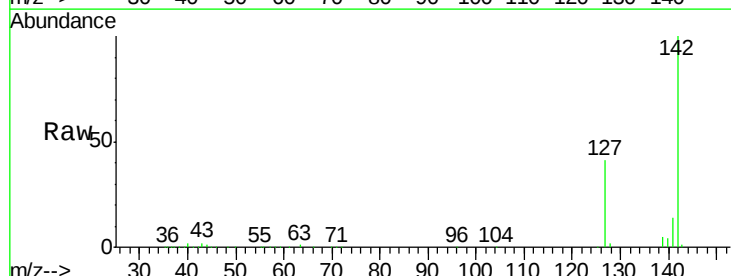
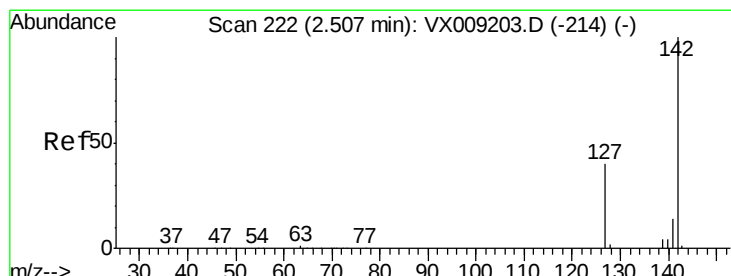
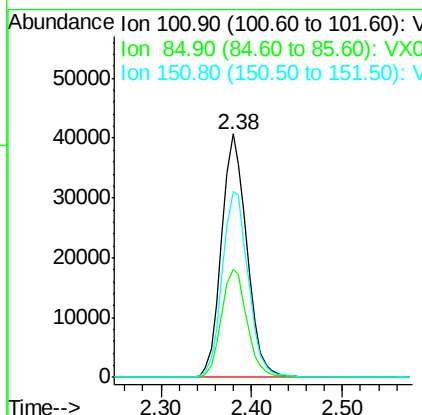
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.672 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tot Ion	Ratio	Resp	Lower	Upper
101	100	79195		
85	44.8		35.7	53.5
151	78.4		62.2	93.2

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

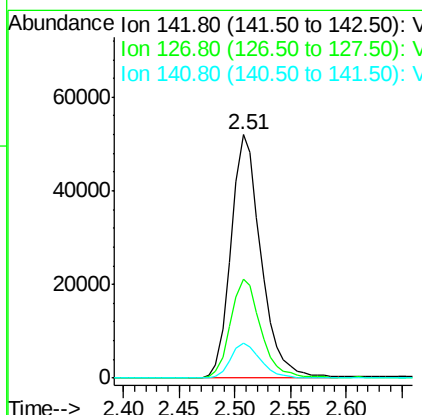
Manual Integrations
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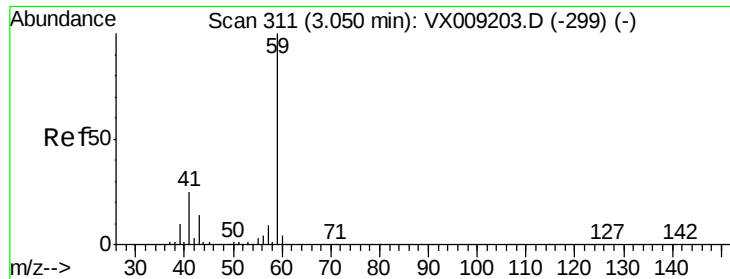
MMDadoda
4/30/2019 11:04:05 AM



#10
Methyl Iodide
Concen: 48.546 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	97509		
127	41.2		32.7	49.1
141	14.6		11.5	17.3





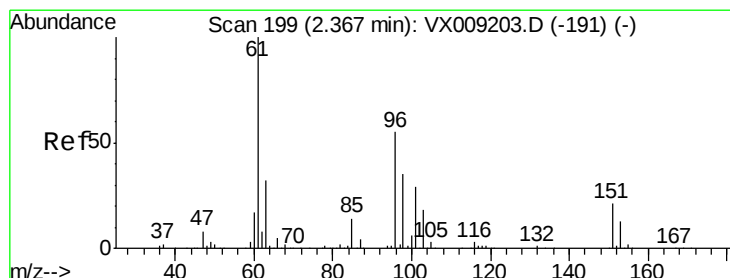
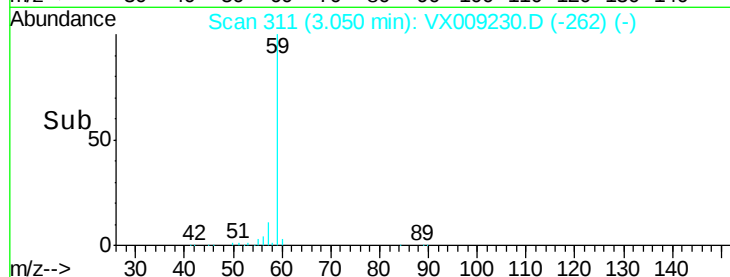
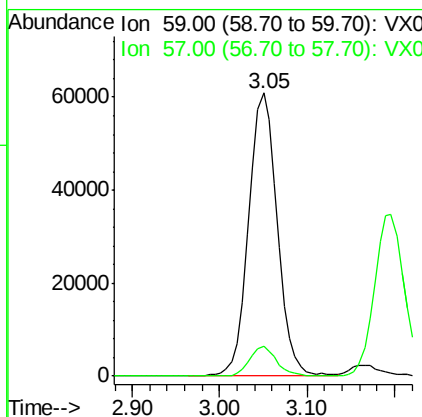
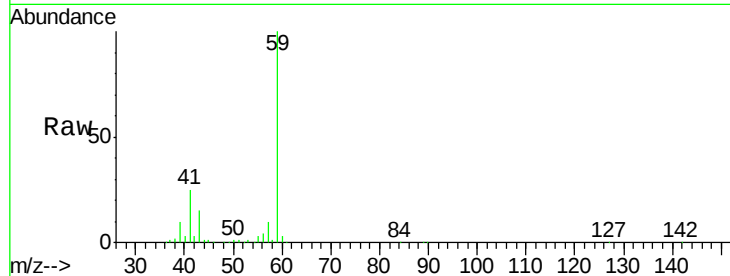
#11
Tert butyl alcohol
Concen: 237.821 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion: 59 Resp: 139149
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.2

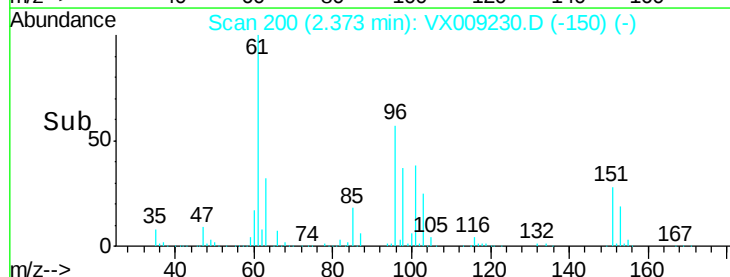
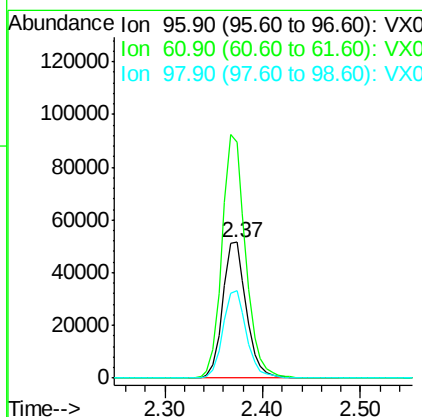
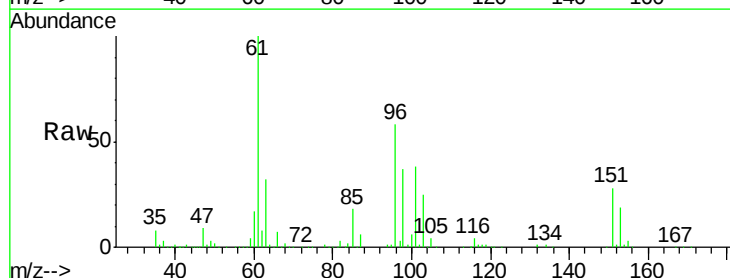
Manual Integrations
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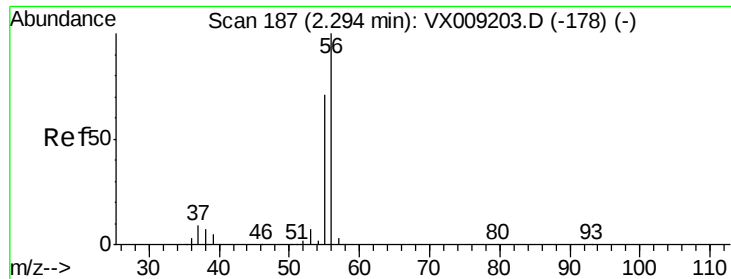
MMDadoda
4/30/2019 11:04:05 AM



#12
1,1-Dichloroethene
Concen: 50.043 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion: 96 Resp: 86943
Ion Ratio Lower Upper
96 100
61 173.8 144.3 216.5
98 64.3 50.3 75.5





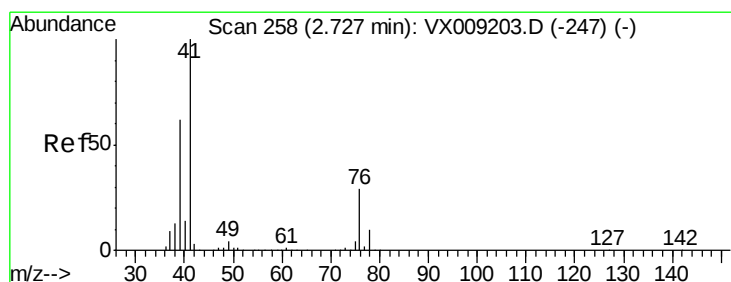
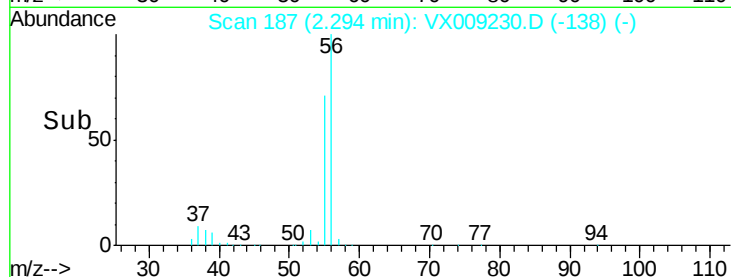
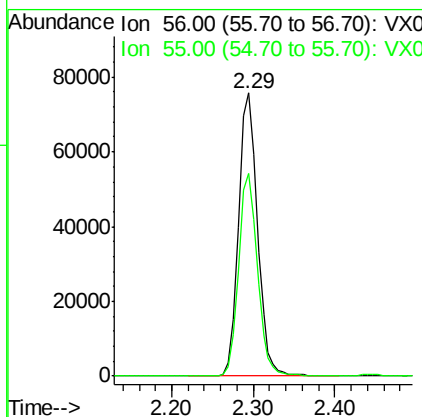
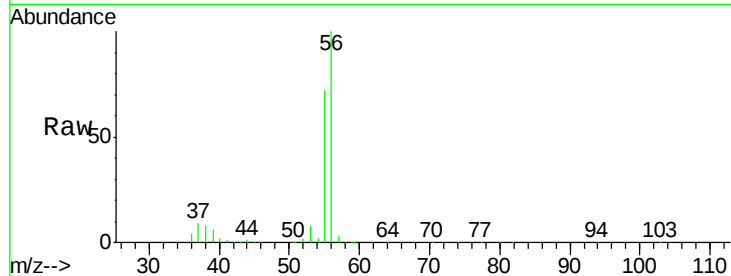
#13
Acrolein
Concen: 227.366 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	56	Resp	120478
Ion Ratio	100	Lower	Upper
55	71.0	56.6	85.0

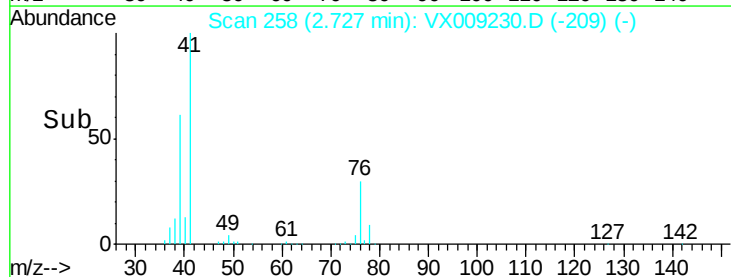
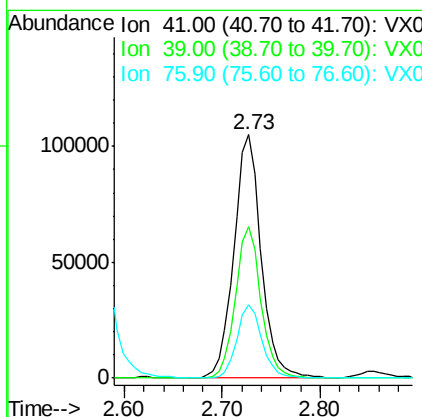
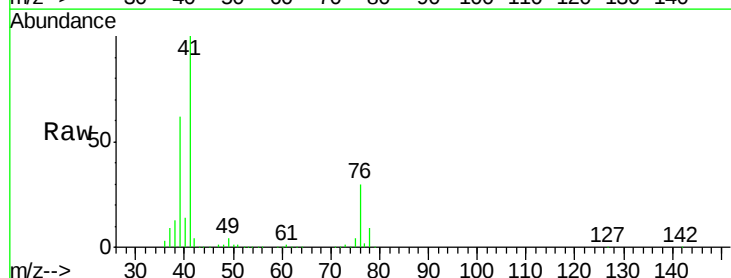
Manual Integrations
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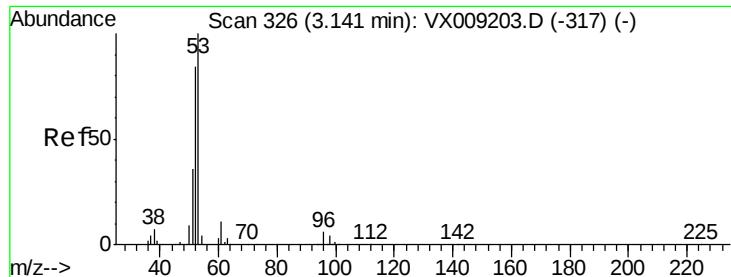
MMDadoda
4/30/2019 11:04:05 AM



#14
Allyl chloride
Concen: 48.060 ug/l
RT: 2.73 min Scan# 258
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	41	Resp	203483
Ion Ratio	100	Lower	Upper
39	58.4	46.7	70.1
76	27.5	21.8	32.8





#15

Acrylonitrile

Concen: 250.540 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

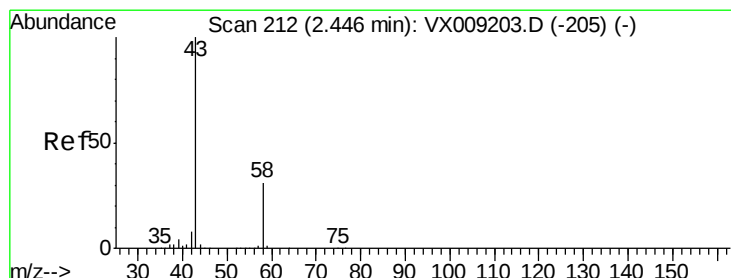
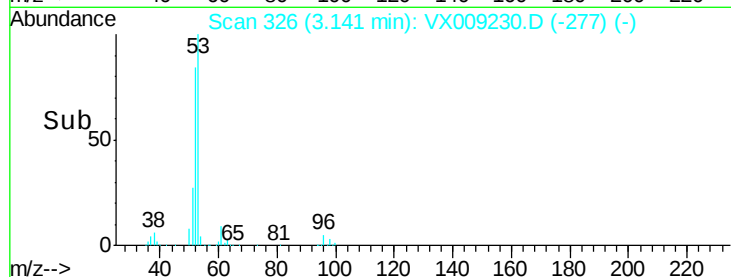
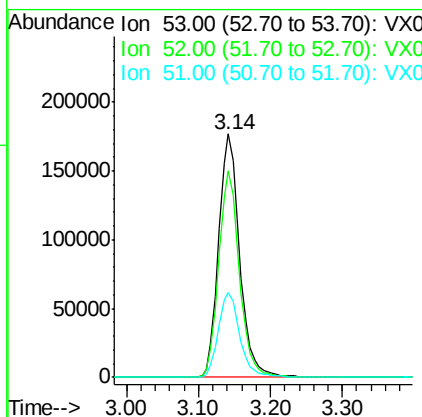
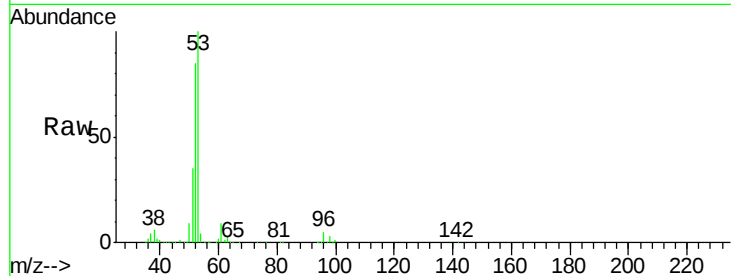
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	53	Resp:	358426
Ion Ratio	Lower	Upper	
53	100		
52	83.7	66.9	100.3
51	35.6	28.2	42.2

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#16

Acetone

Concen: 219.559 ug/l

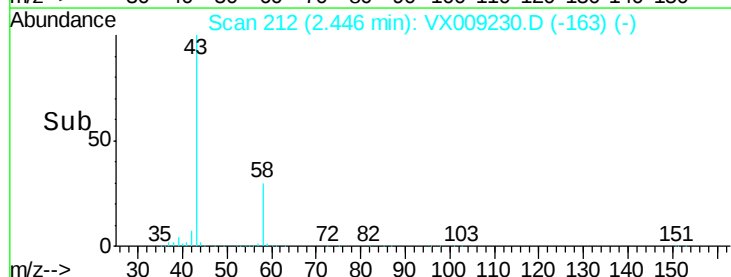
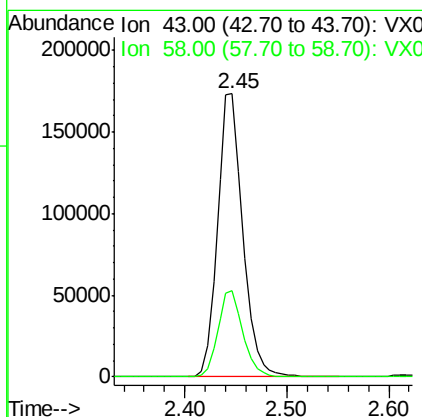
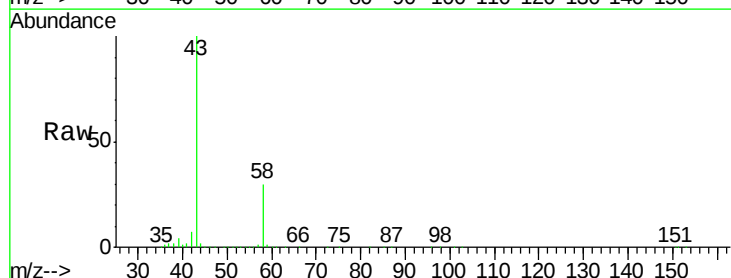
RT: 2.45 min Scan# 212

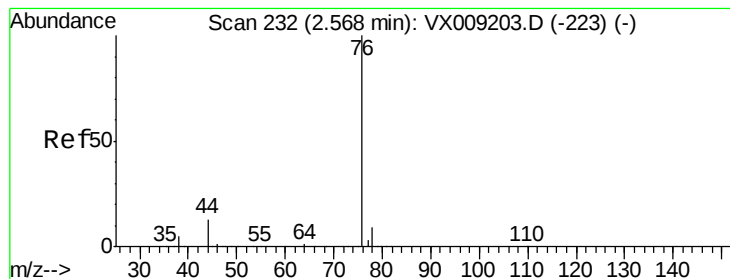
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	43	Resp:	298002
Ion Ratio	Lower	Upper	
43	100		
58	30.3	24.9	37.3





#17

Carbon Disulfide

Concen: 50.467 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 76 Resp: 246166

Ion Ratio Lower Upper

76 100

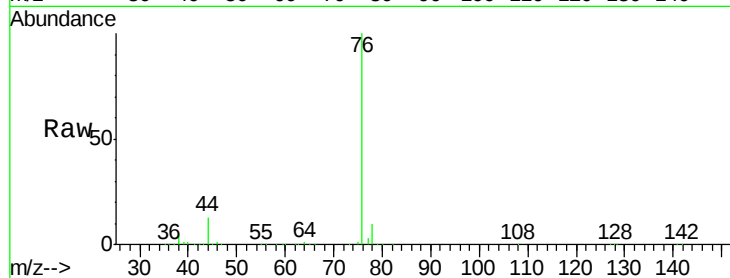
78 9.6 7.4 11.0

Manual Integrations

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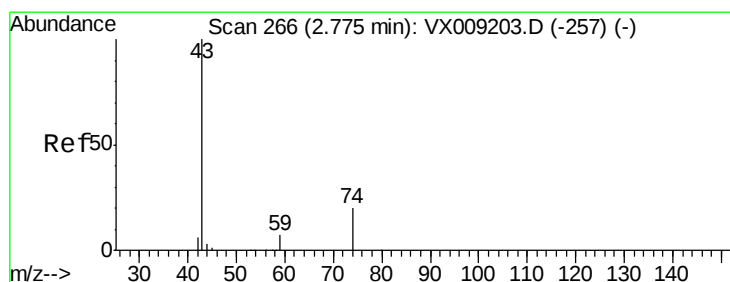
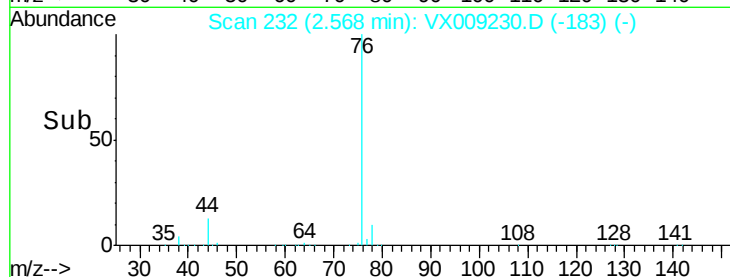
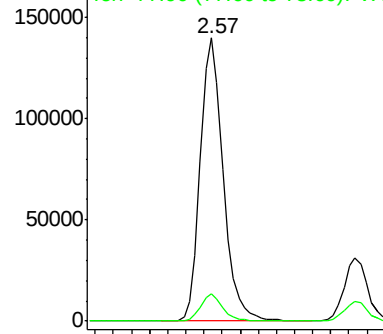
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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 47.926 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX009230.D

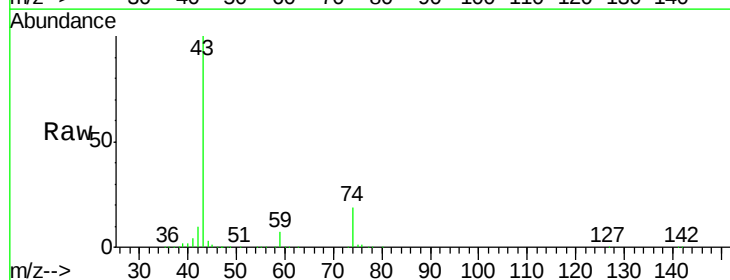
Acq: 30 Apr 2019 00:09

Tgt Ion: 43 Resp: 154700

Ion Ratio Lower Upper

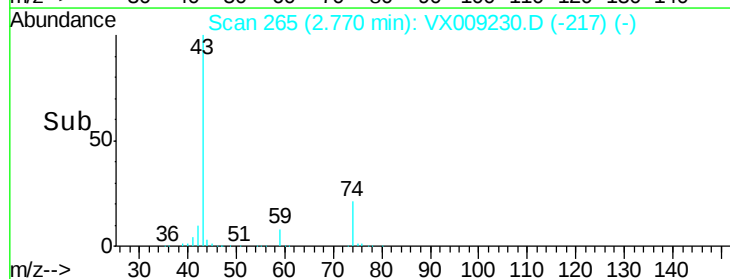
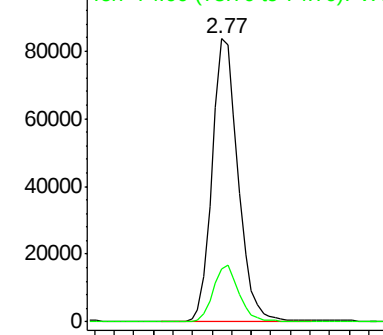
43 100

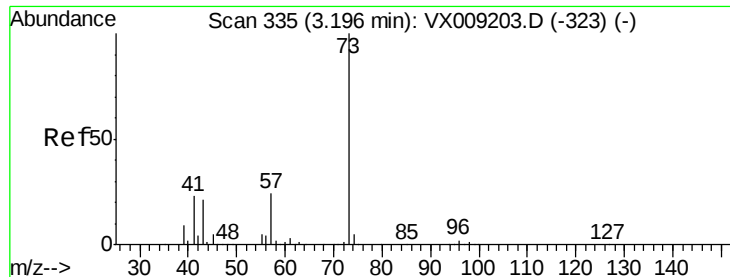
74 20.0 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





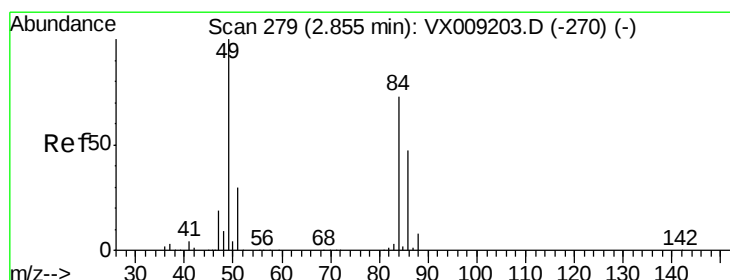
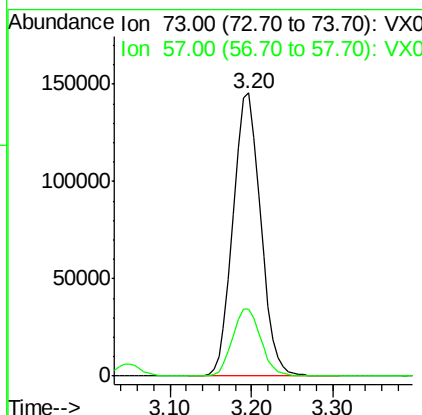
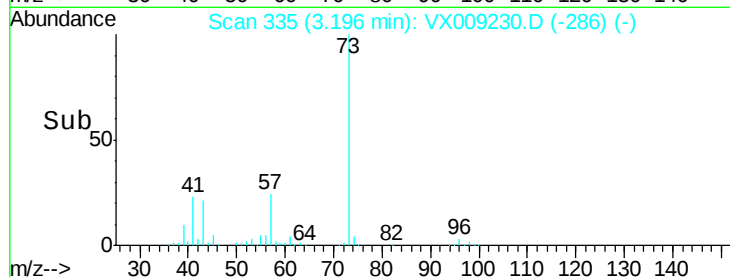
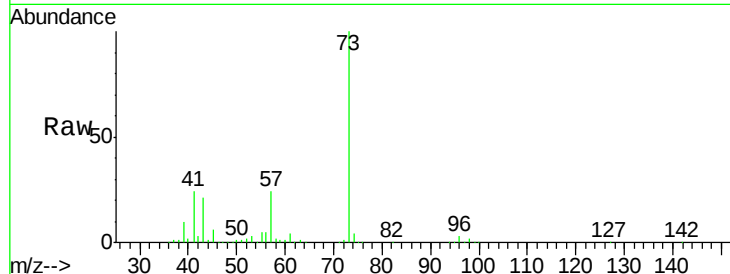
#19
Methvl tert-butvl Ether
Concen: 50.574 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.3	28.9

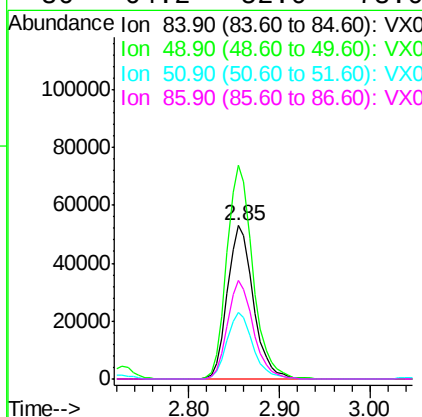
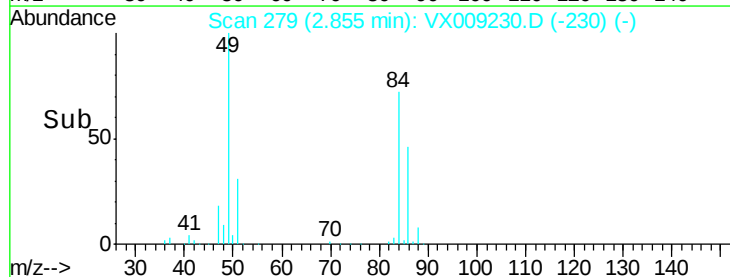
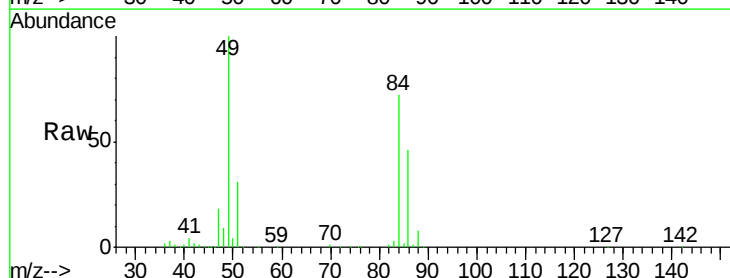
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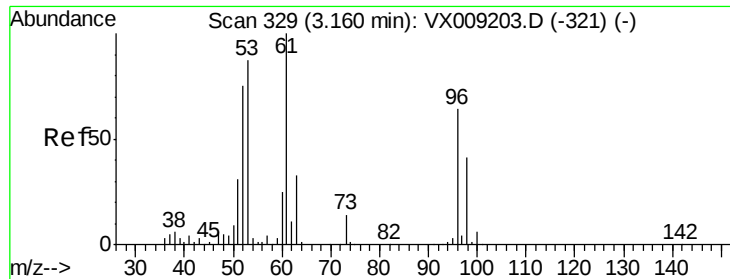
MMDadoda
4/30/2019 11:04:05 AM



#20
Methylene Chloride
Concen: 47.803 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.3	109.9	164.9
51	43.2	32.7	49.1
86	64.2	52.0	78.0





#21

trans-1,2-Dichloroethene

Concen: 50.305 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

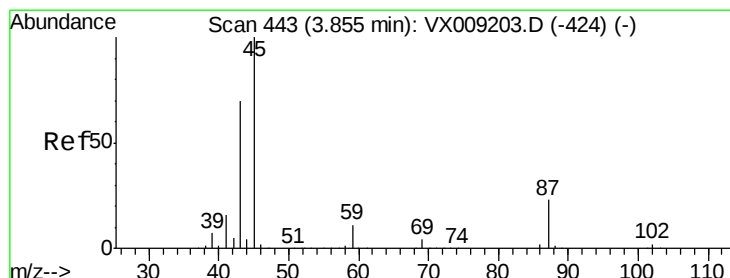
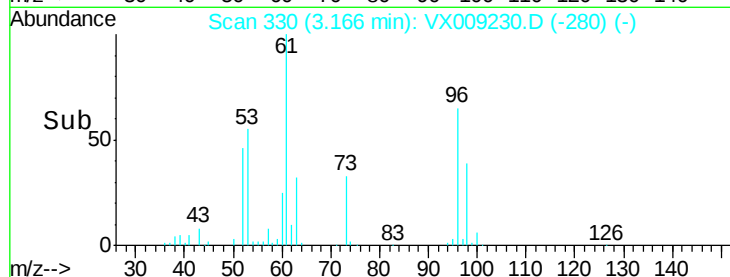
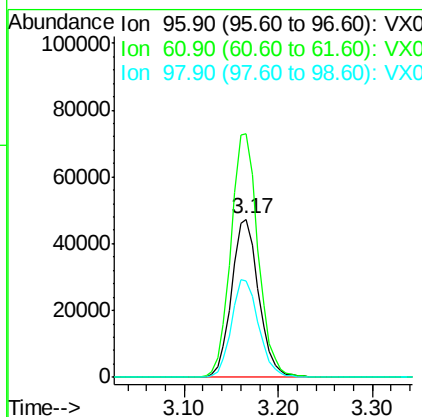
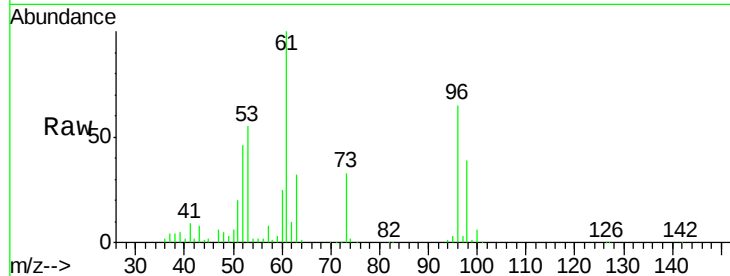
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	96	Resp:	94783
Ion	Ratio	Lower	Upper
96	100		
61	154.1	124.5	186.7
98	60.7	50.4	75.6

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#22

Diisopropyl ether

Concen: 50.671 ug/l

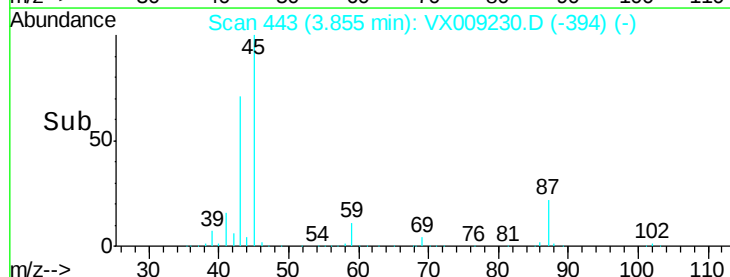
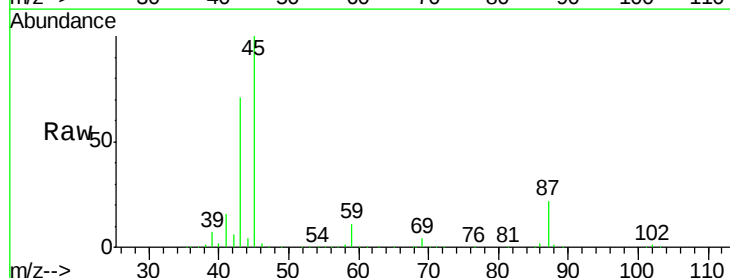
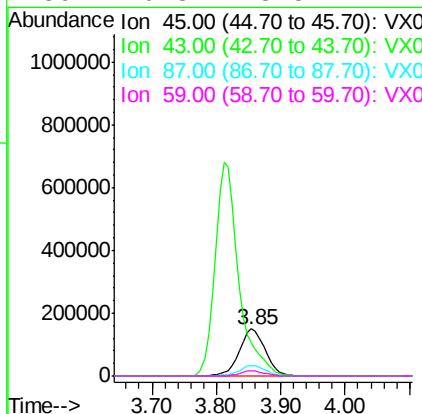
RT: 3.85 min Scan# 443

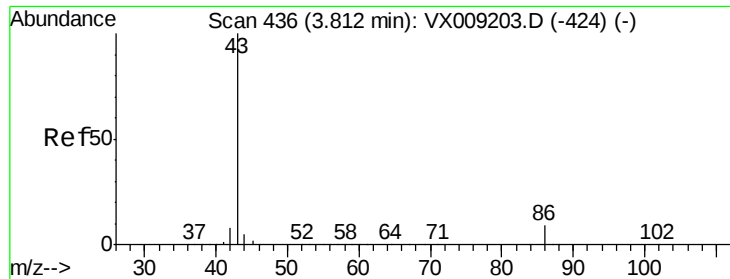
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	45	Resp:	412587
Ion	Ratio	Lower	Upper
45	100		
43	70.4	56.1	84.1
87	22.0	18.1	27.1
59	10.8	8.5	12.7





#23

Vinyl Acetate

Concen: 252.466 ug/l

RT: 3.81 min Scan# 436

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tot Ion: 43 Resp: 1760305

Ion Ratio Lower Upper

43 100

86 8.6 6.9 10.3

Instrument :

MSVOA_X

ClientSampleId :

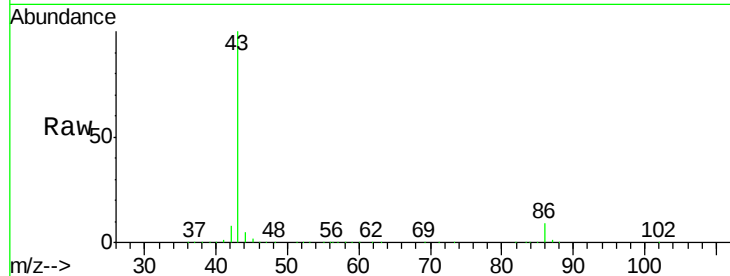
WP021MW038-190423MSD

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

800000

600000

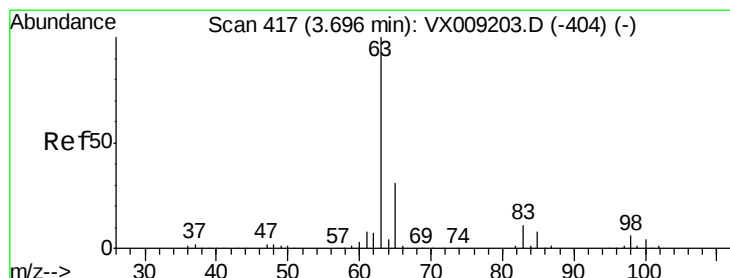
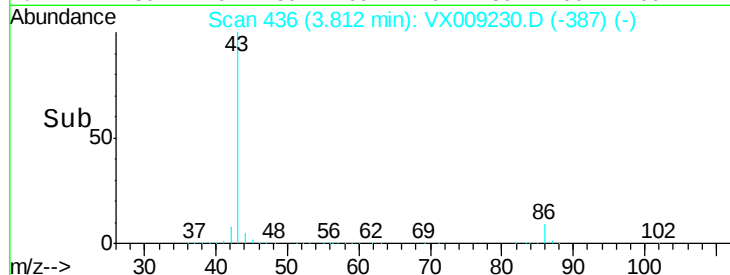
400000

200000

0

3.60 3.80 4.00

Time-->



#24

1,1-Dichloroethane

Concen: 50.027 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

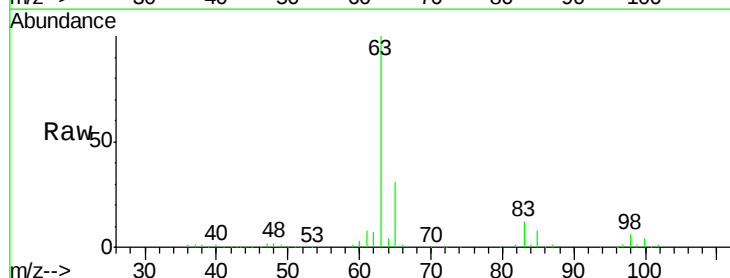
Tgt Ion: 63 Resp: 200946

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.2

100 3.7 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

100000

80000

60000

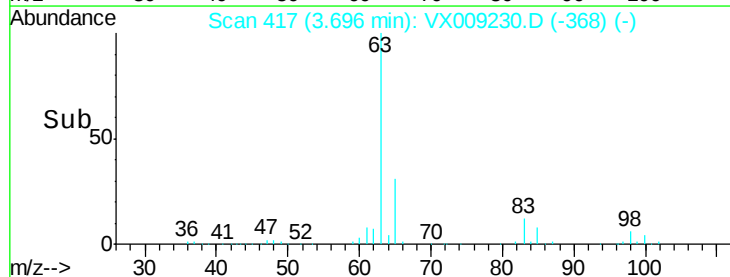
40000

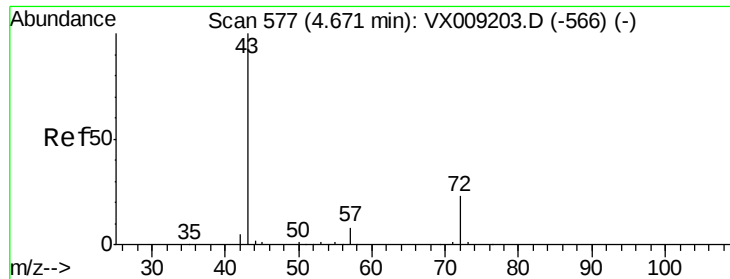
20000

0

3.60 3.70 3.80 3.90

Time-->





#25

2-Butanone

Concen: 246.660 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 43 Resp: 520245

Ion Ratio Lower Upper

43 100

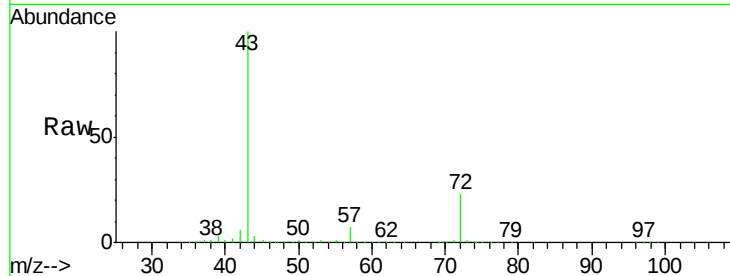
72 22.8 18.2 27.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

200000

150000

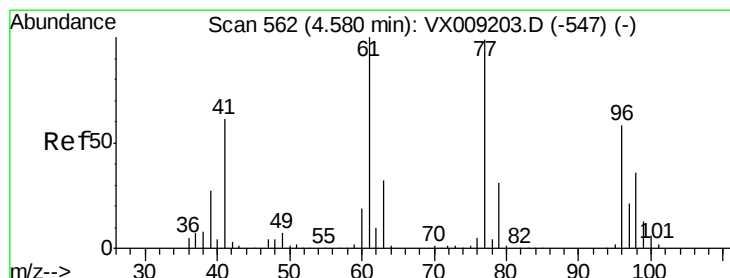
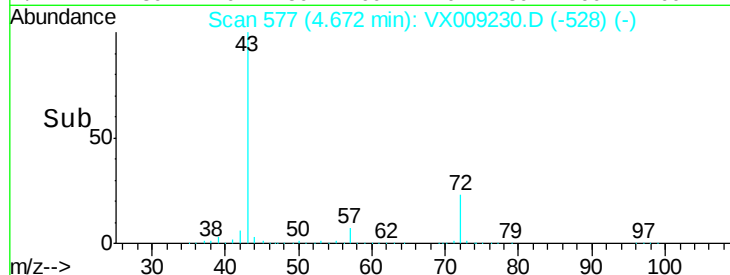
100000

50000

0

4.60 4.70 4.80

Time-->



#26

2,2-Dichloropropane

Concen: 39.405 ug/l

RT: 4.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VX009230.D

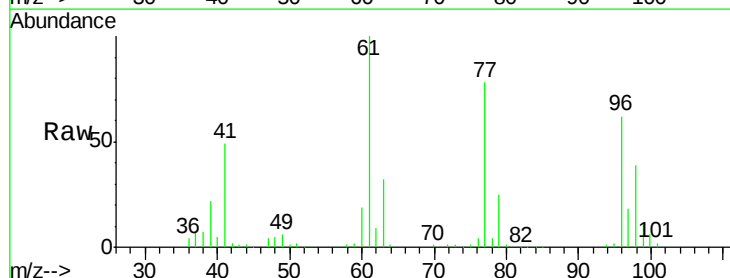
Acq: 30 Apr 2019 00:09

Tgt Ion: 77 Resp: 117815

Ion Ratio Lower Upper

77 100

97 24.0 11.5 34.4



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

40000

30000

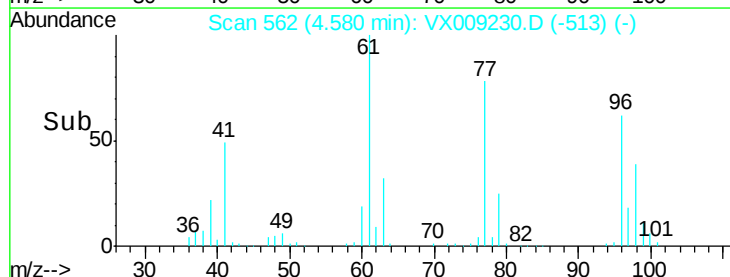
20000

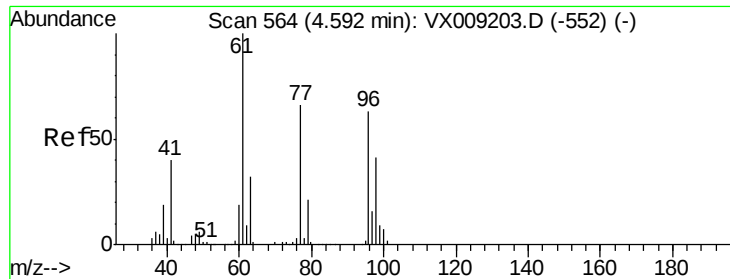
10000

0

4.40 4.50 4.60 4.70

Time-->





#27

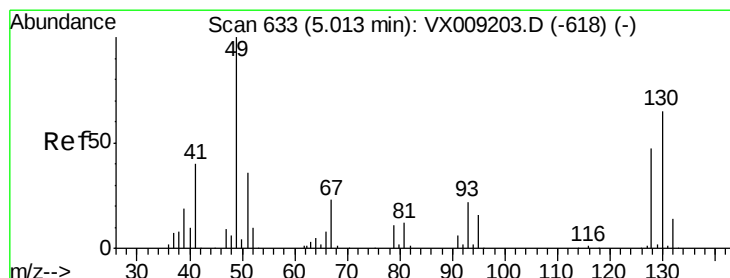
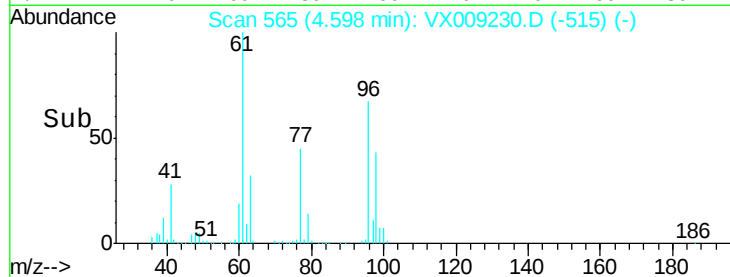
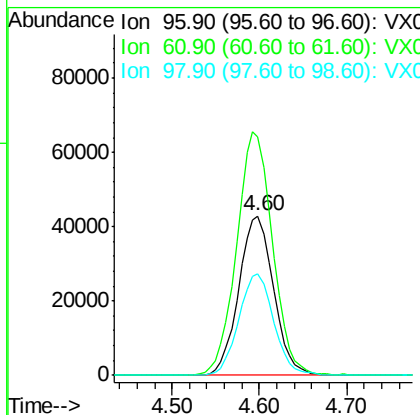
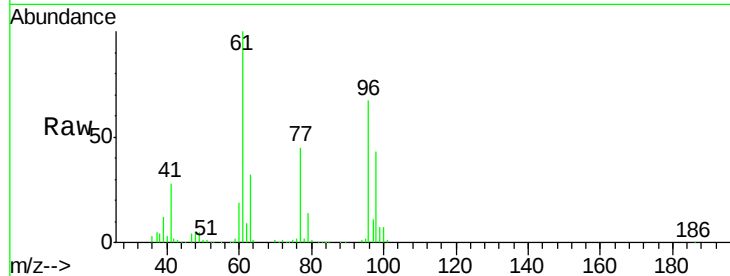
cis-1,2-Dichloroethene
Concen: 52.759 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	157.7	0.0	324.0	
98	64.2	0.0	130.4	

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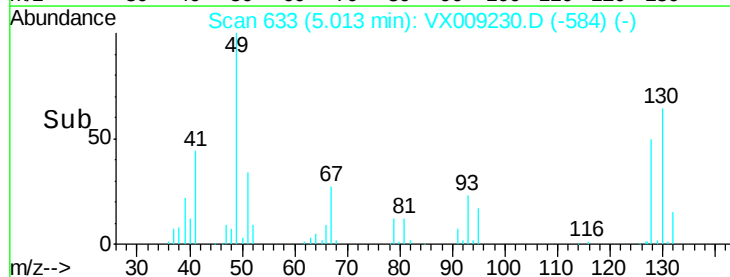
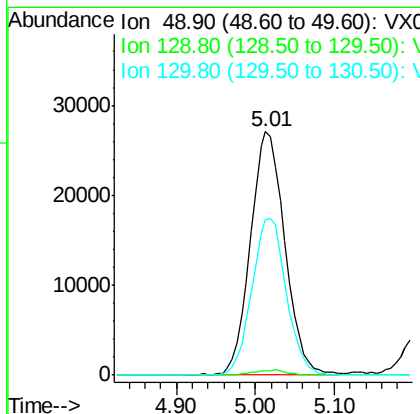
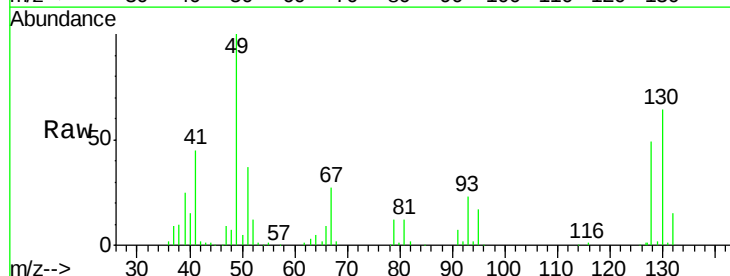
MMDadoda
4/30/2019 11:04:05 AM

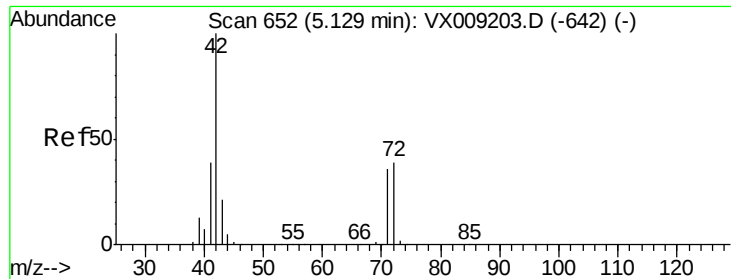


#28

Bromochloromethane
Concen: 50.876 ug/l
RT: 5.01 min Scan# 633
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	3.8	
130	64.5	51.2	76.8	





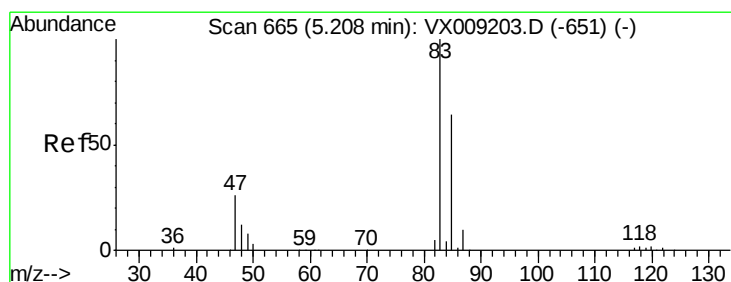
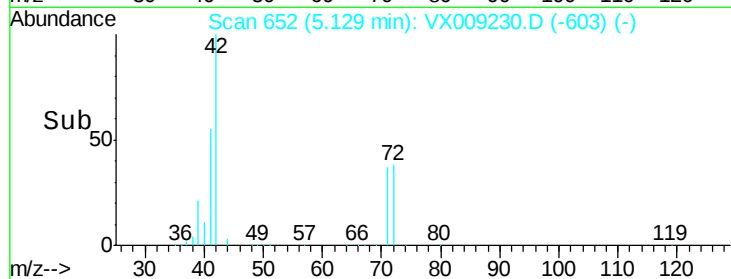
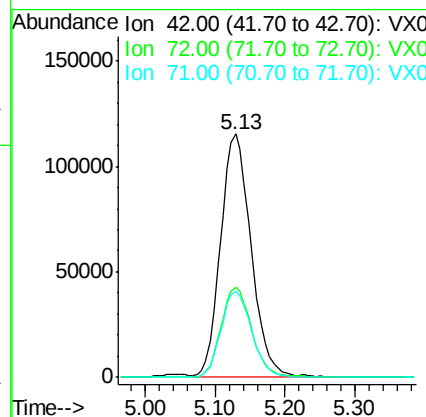
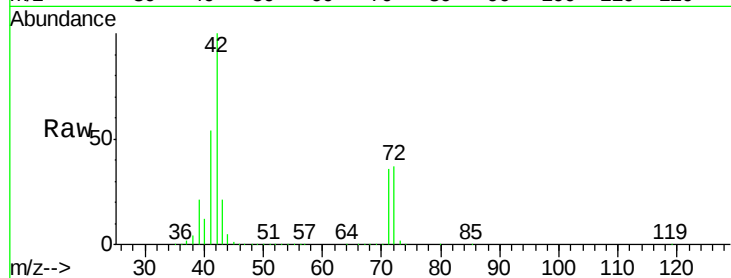
#29
Tetrahydrofuran
Concen: 256.896 ug/l
RT: 5.13 min Scan# 652
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.6	30.4	45.6
71	35.8	28.6	43.0

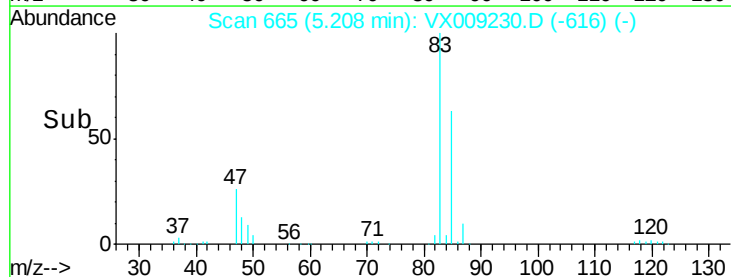
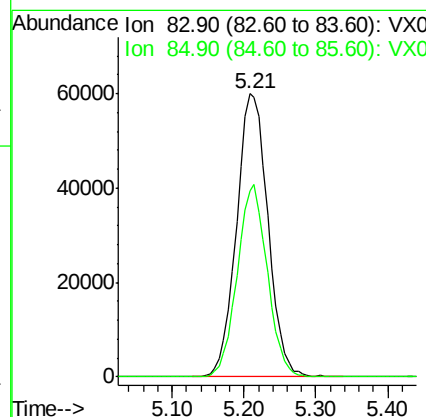
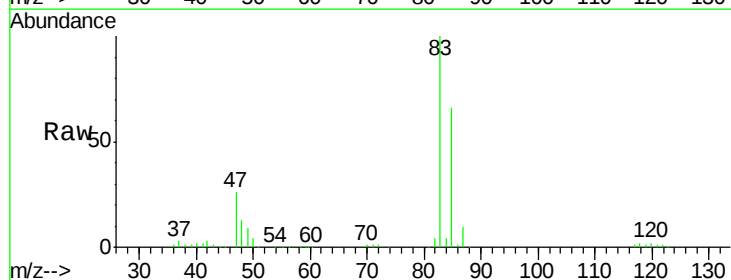
Manual Integrations
APPROVED

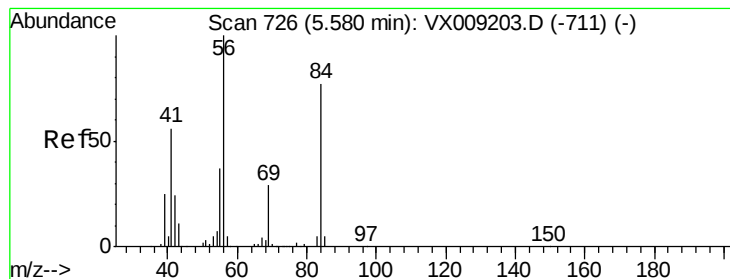
MMDadoda
4/30/2019 11:04:05 AM



#30
Chloroform
Concen: 49.991 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.5	77.3





#31

Cyclohexane

Concen: 48.657 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

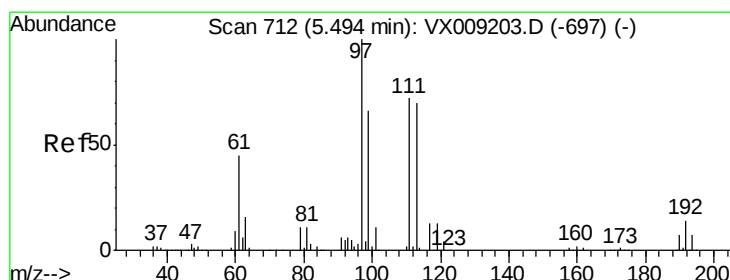
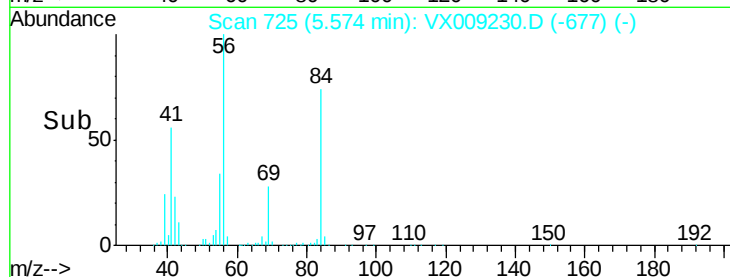
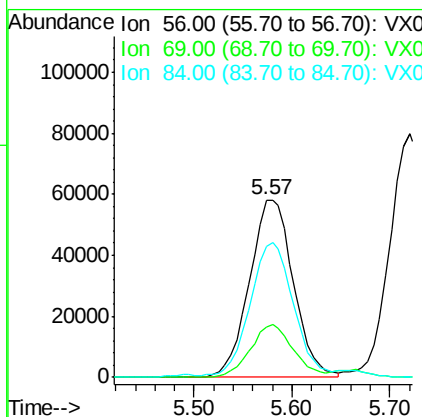
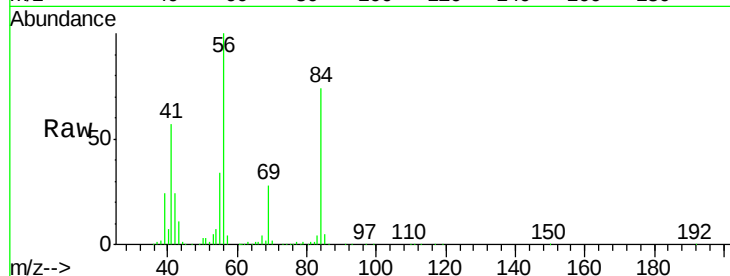
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	56	Resp:	181832
Ion	Ratio	Lower	Upper
56	100		
69	28.4	23.4	35.0
84	72.8	61.9	92.9

Manual Integrations
APPROVED

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4/30/2019 11:04:05 AM



#32

1,1,1-Trichloroethane

Concen: 49.508 ug/l

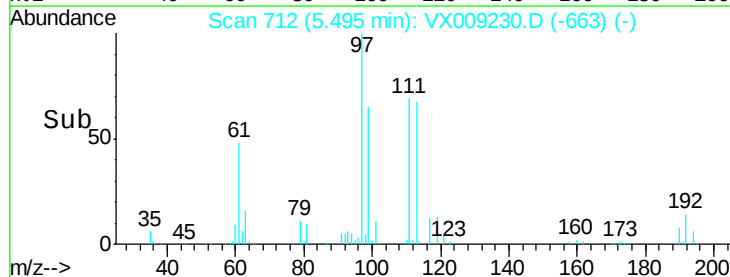
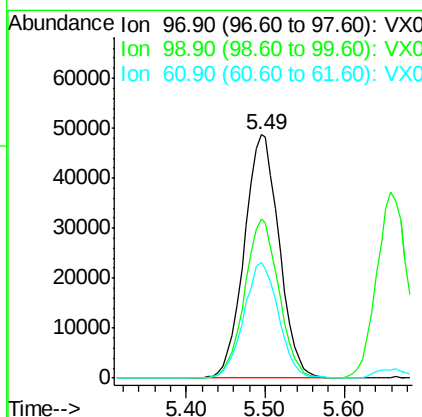
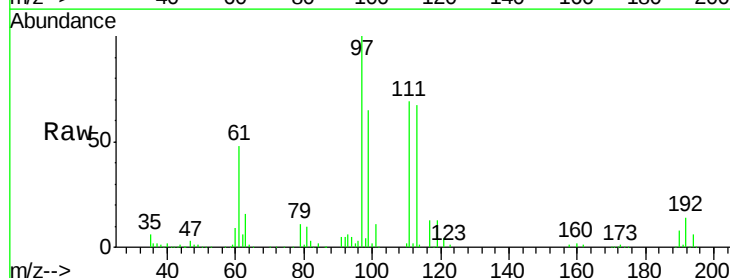
RT: 5.49 min Scan# 712

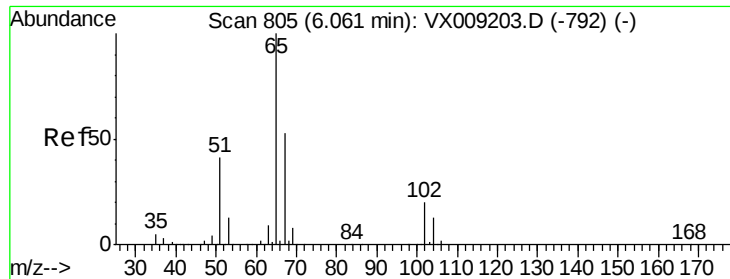
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	97	Resp:	149722
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.8
61	47.4	37.8	56.8





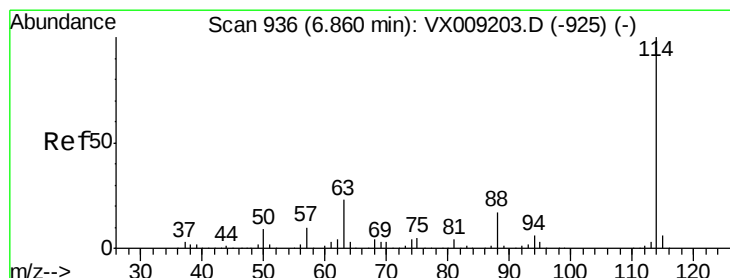
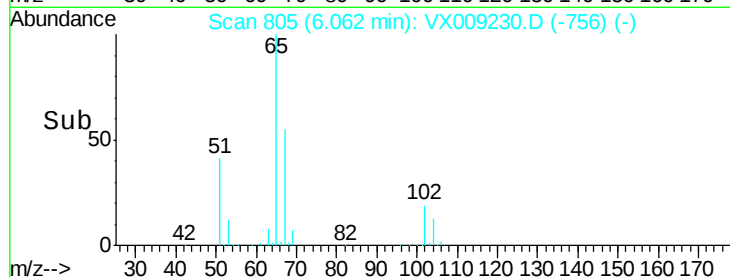
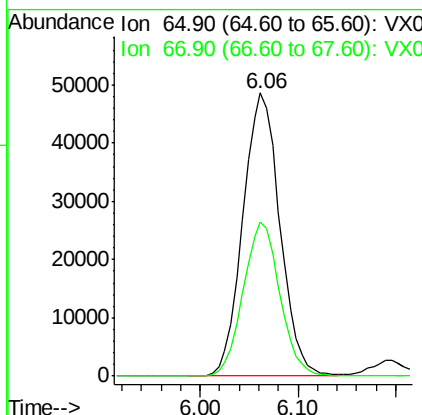
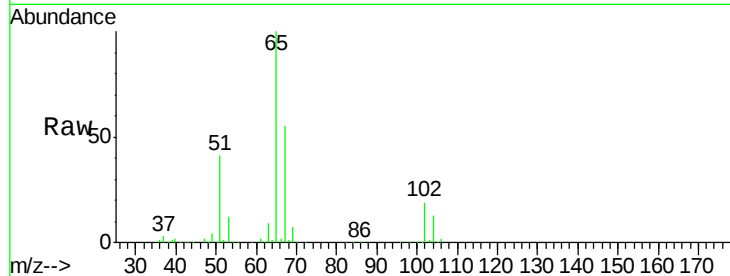
#33
 1,2-Dichloroethane-d4
 Concen: 50.487 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	106.6

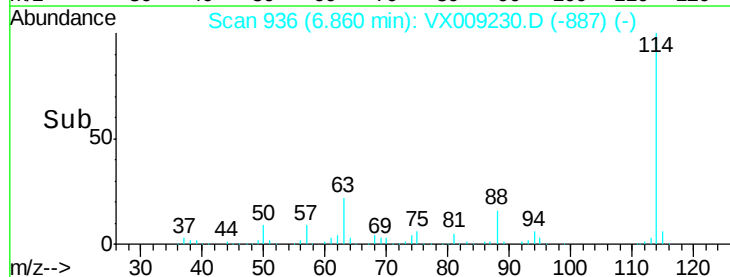
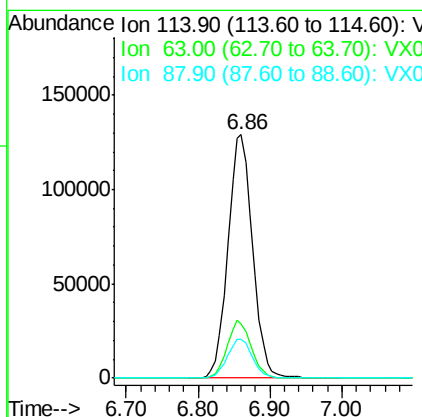
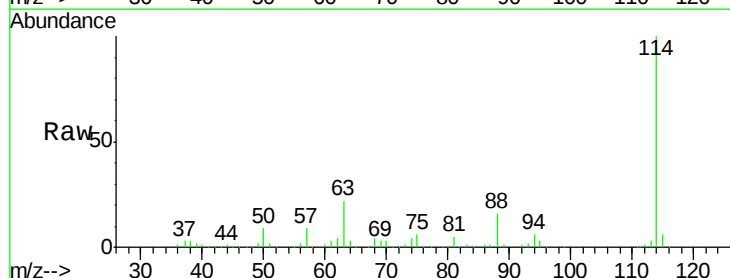
Manual Integrations
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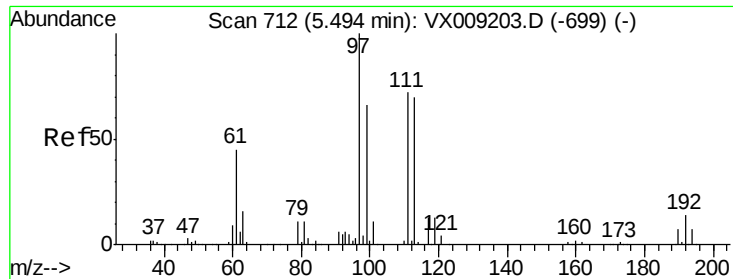
MMDadoda
 4/30/2019 11:04:05 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	45.6
88	15.8	0.0	33.2





#35

Dibromofluoromethane

Concen: 49.514 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

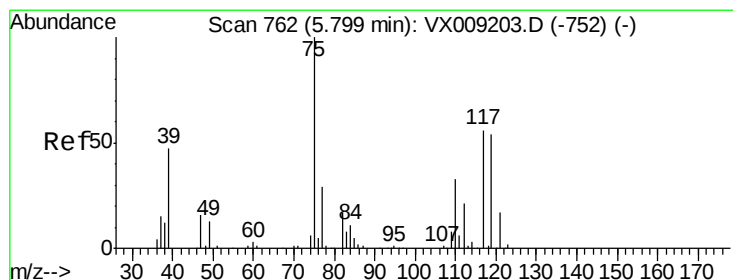
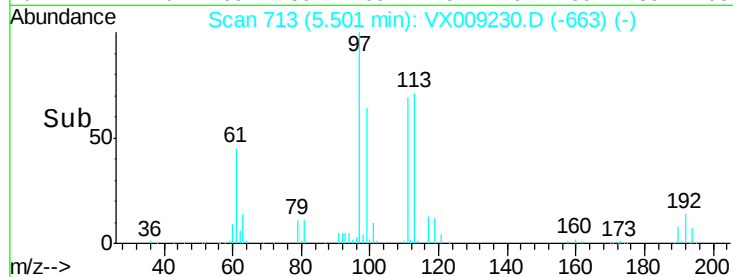
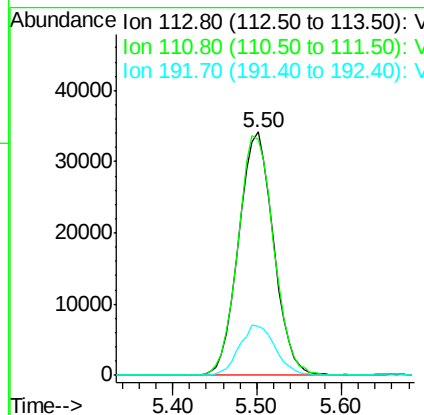
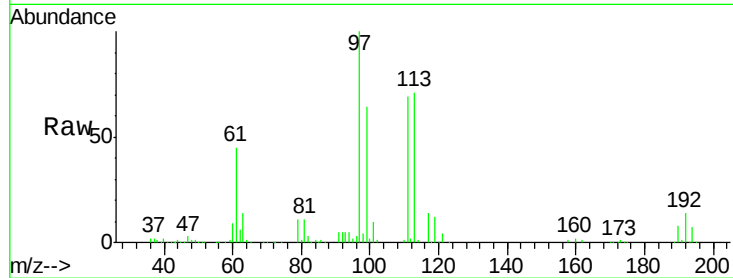
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	113	Resp:	95622
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.8	124.2
192	21.3	17.0	25.6

Manual Integrations
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MMDadoda
4/30/2019 11:04:05 AM



#36

1,1-Dichloropropene

Concen: 48.291 ug/l

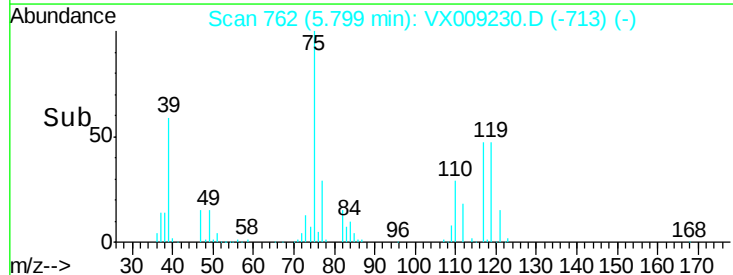
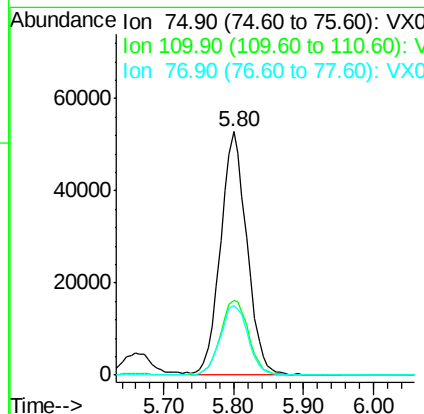
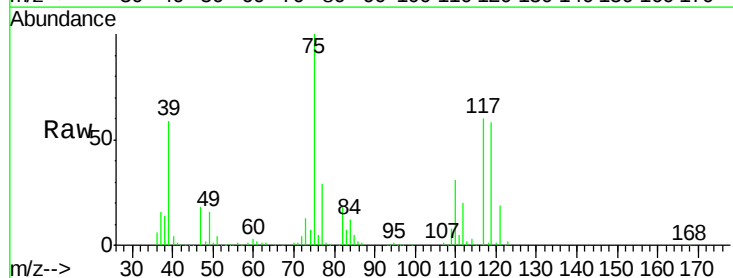
RT: 5.80 min Scan# 762

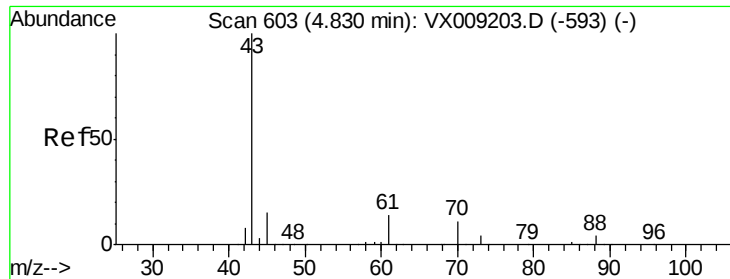
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	75	Resp:	137866
Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.9	50.6
77	30.0	24.8	37.2





#37

Ethyl Acetate

Concen: 48.413 ug/l

RT: 4.84 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

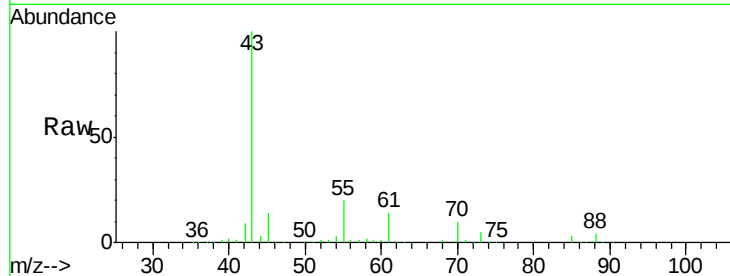
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	43	Resp:	192573
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.5	15.7
70	9.5	7.9	11.9

Manual Integrations
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MMDadoda
4/30/2019 11:04:05 AM



Abundance Ion 43.00 (42.70 to 43.70): VX009230.D (-593) (-)

Ion 60.90 (60.60 to 61.60): VX009230.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)

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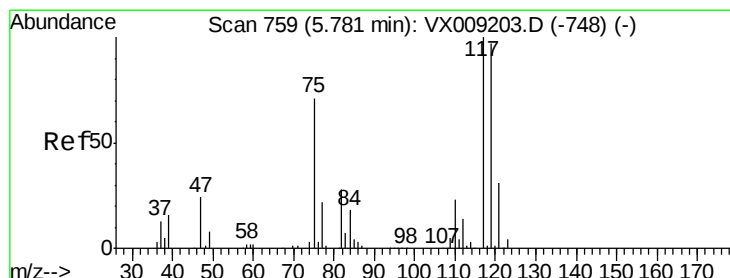
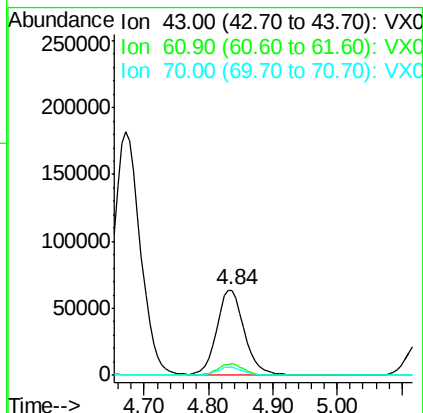
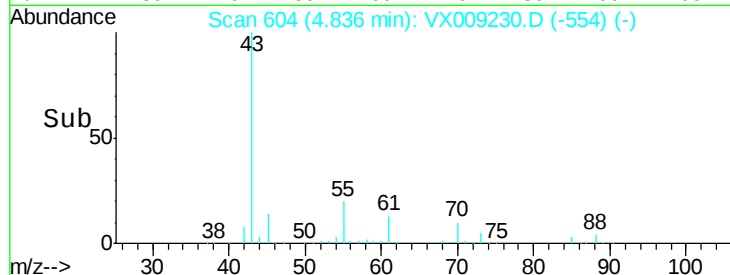
Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)

Ion 70.00 (69.70 to 70.70): VX009230.D (-593) (-)



#38

Carbon Tetrachloride

Concen: 47.953 ug/l

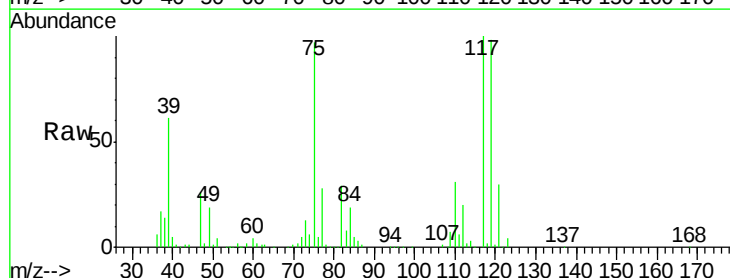
RT: 5.79 min Scan# 760

Delta R.T. 0.01 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	117	Resp:	124384
Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.5	116.3
121	30.1	24.7	37.1



Abundance Ion 116.80 (116.50 to 117.50): VX009230.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

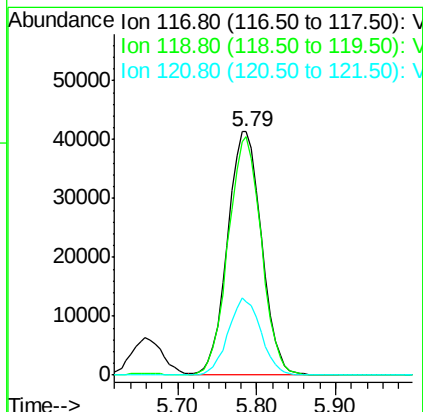
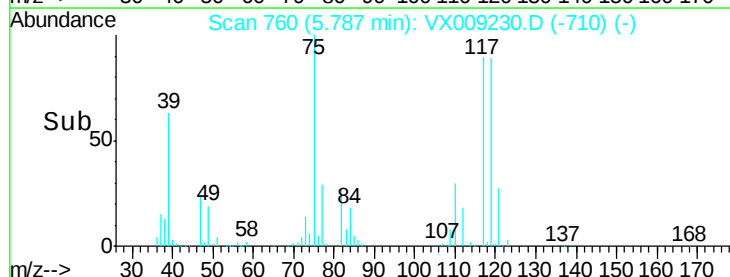
Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

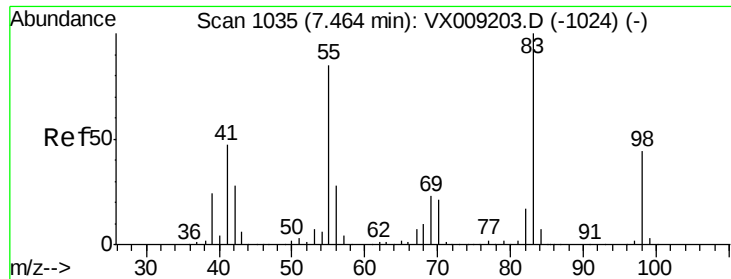
Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX009230.D (-748) (-)





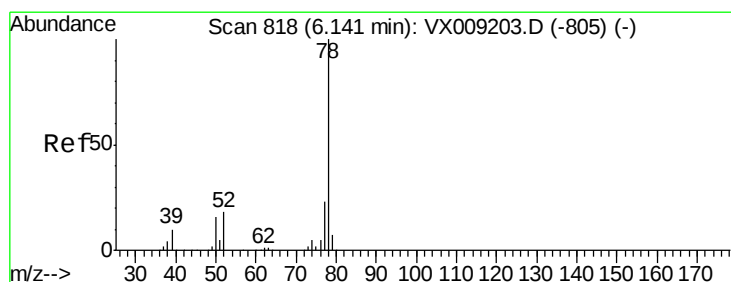
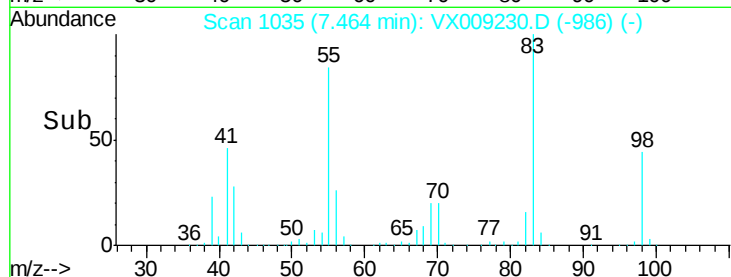
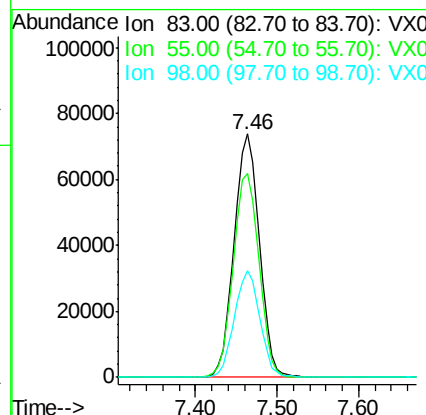
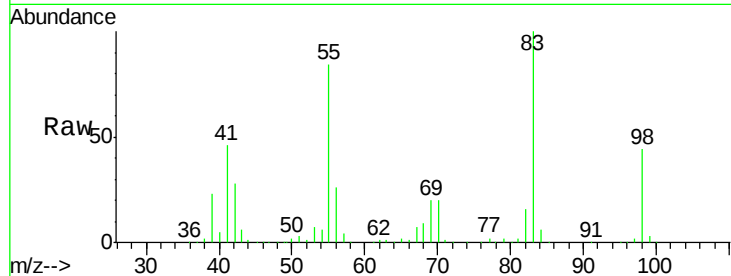
#39
Methvlcvclohexane
Concen: 44.960 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.6	67.7	101.5
98	43.7	35.5	53.3

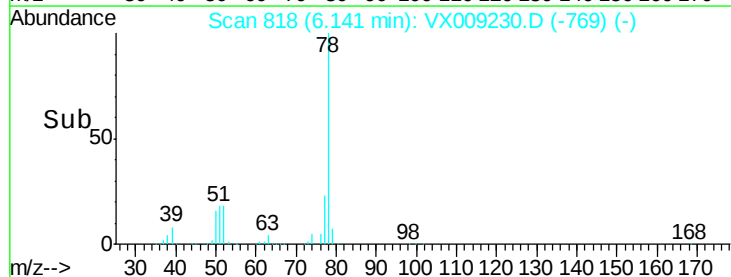
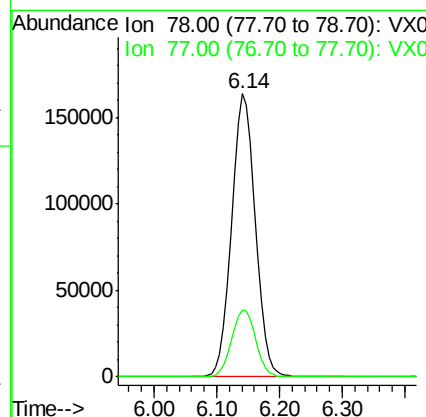
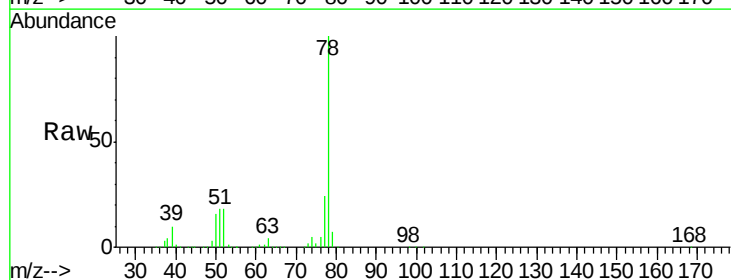
Manual Integrations
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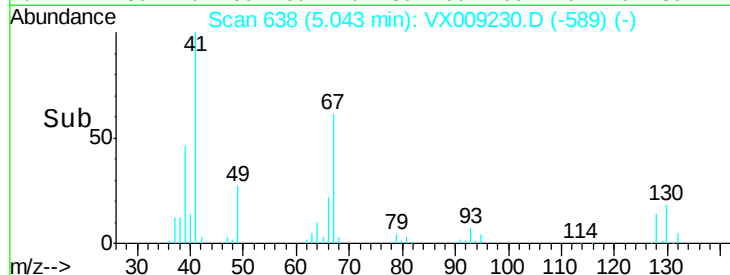
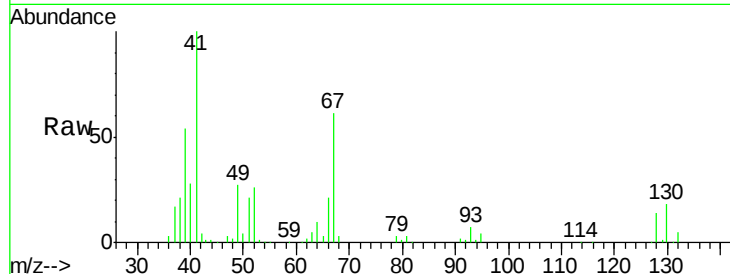
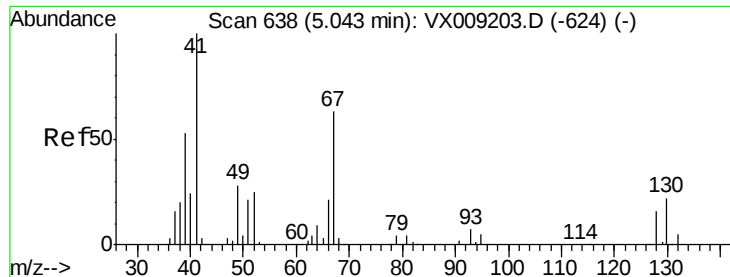
MMDadoda
4/30/2019 11:04:05 AM



#40
Benzene
Concen: 48.501 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





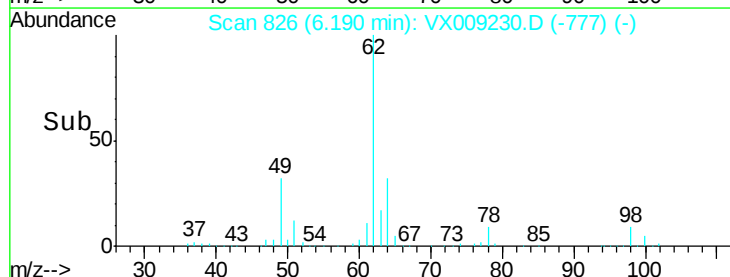
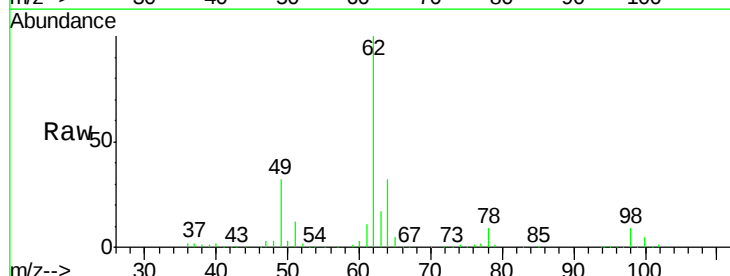
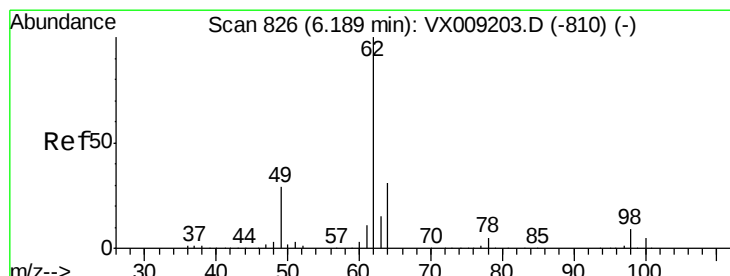
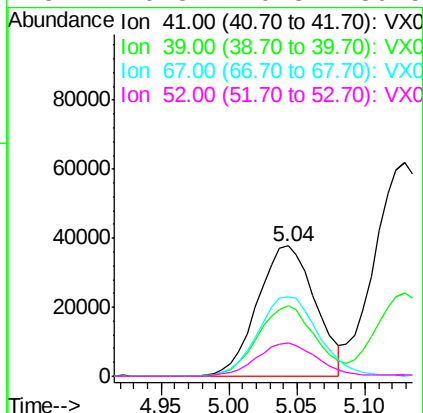
#41
Methacrylonitrile
Concen: 47.198 ug/l
RT: 5.04 min Scan# 638
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.4	42.0	63.0	
67	64.5	49.8	74.8	
52	26.3	20.3	30.5	

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

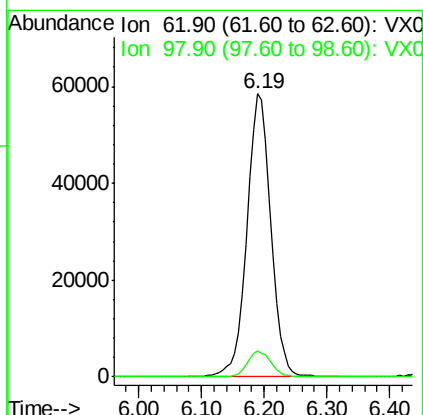
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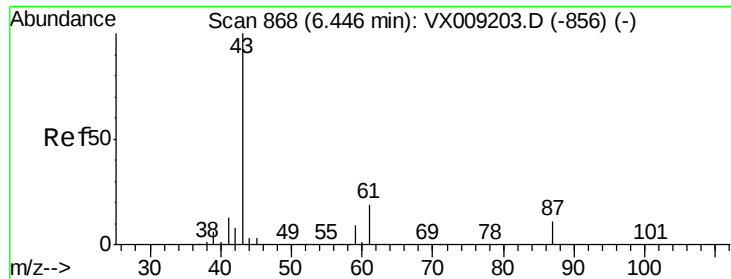
MMDadoda
4/30/2019 11:04:05 AM



#42
1,2-Dichloroethane
Concen: 48.730 ug/l
RT: 6.19 min Scan# 826
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.0	0.0	18.2	





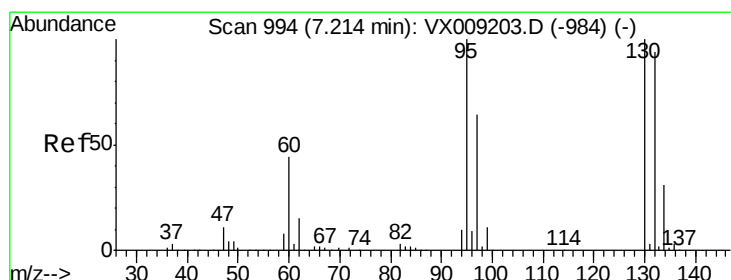
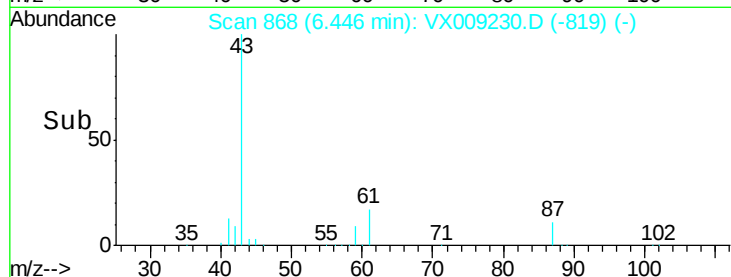
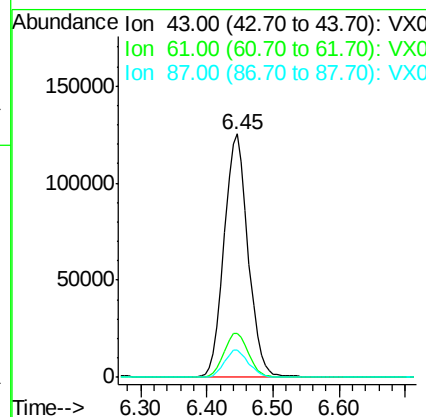
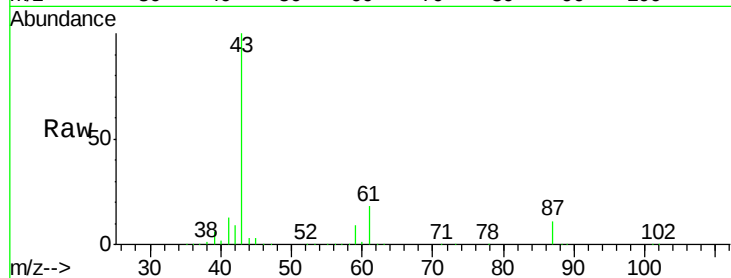
#43
Isopropyl Acetate
Concen: 49.076 ug/l
RT: 6.45 min Scan# 868
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.1	22.7
87	11.2	9.0	13.6

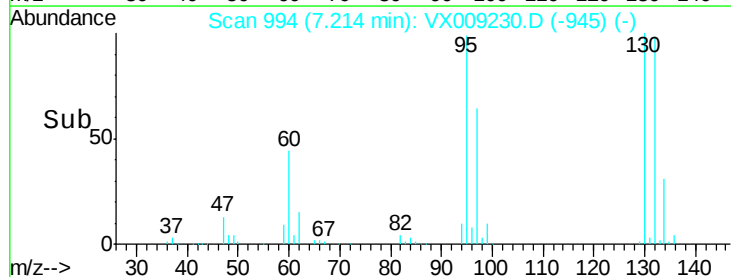
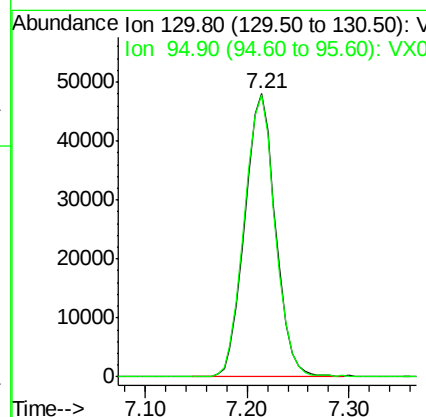
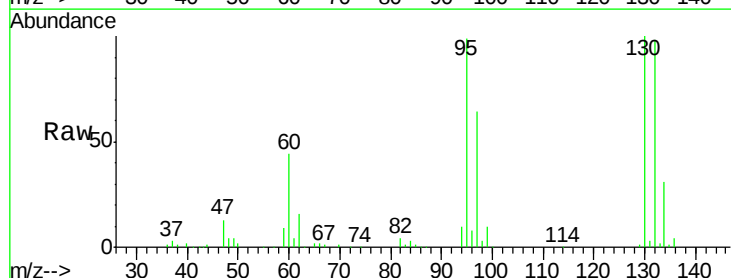
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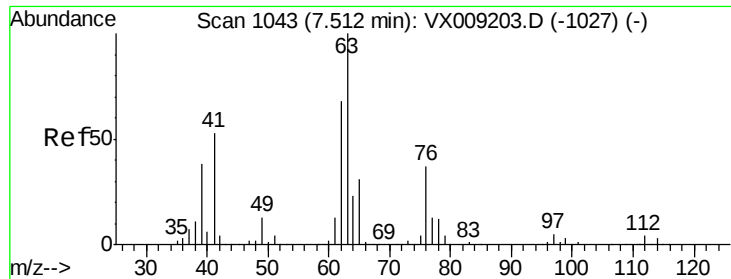
MMDadoda
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#44
Trichloroethene
Concen: 47.026 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	199.2





#45

1,2-Dichloropropane

Concen: 48.807 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 63 Resp: 122108

Ion Ratio Lower Upper

63 100

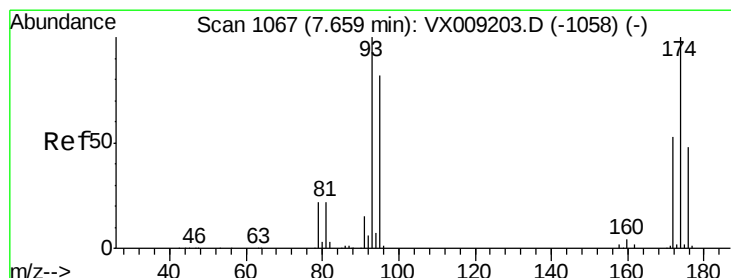
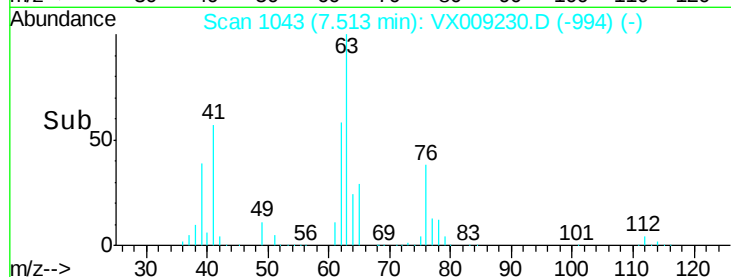
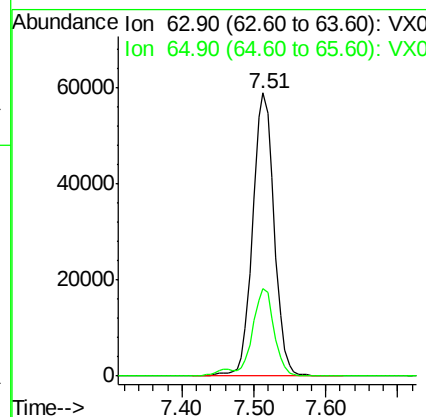
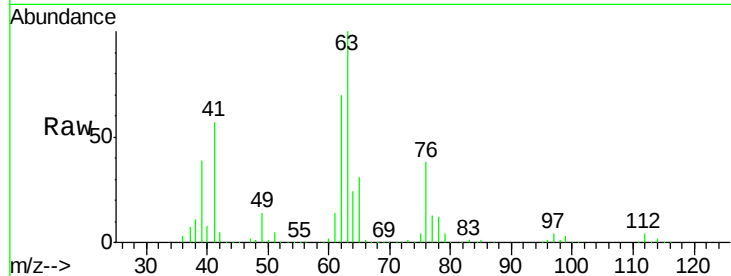
65 30.9 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 48.040 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

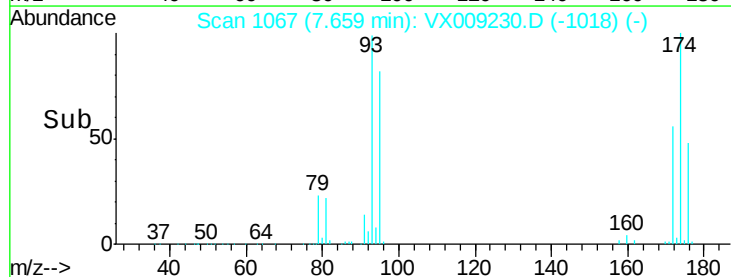
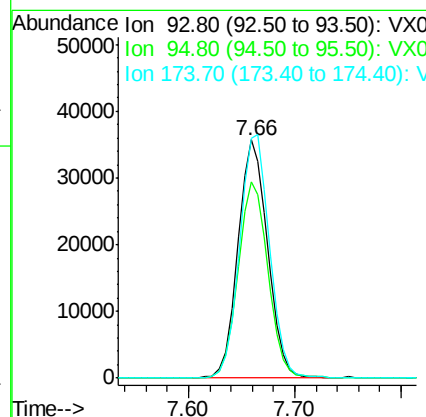
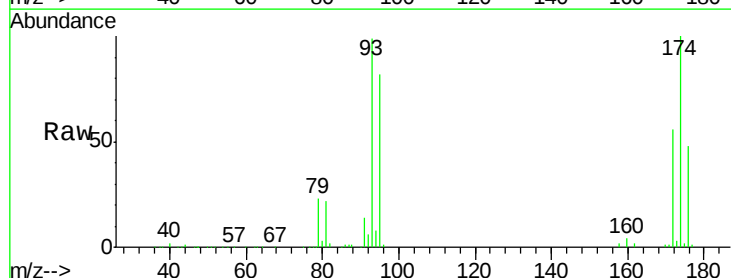
Tgt Ion: 93 Resp: 69795

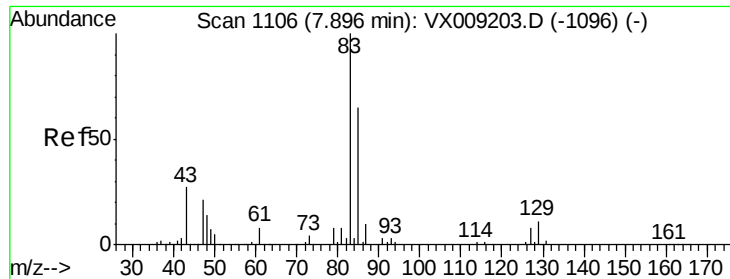
Ion Ratio Lower Upper

93 100

95 83.1 66.5 99.7

174 103.1 82.1 123.1





#47

Bromodichloromethane

Concen: 49.208 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX009230.D

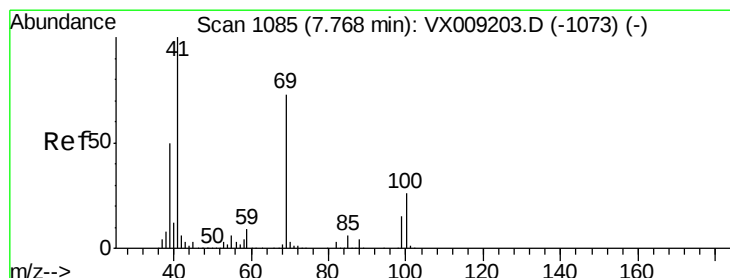
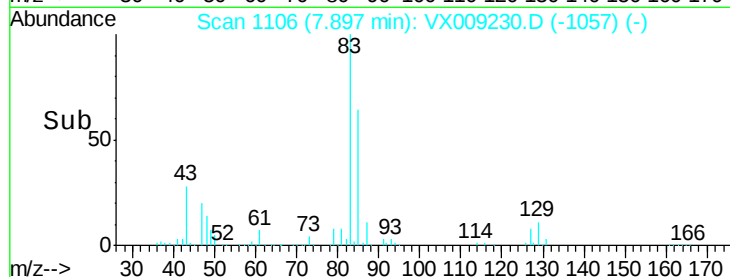
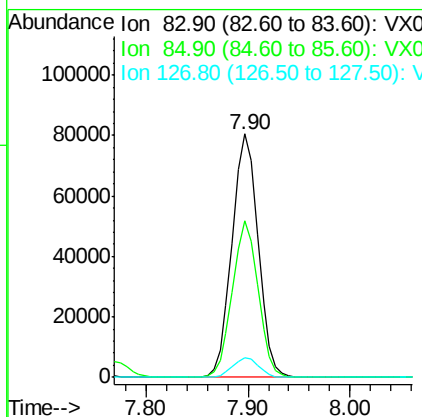
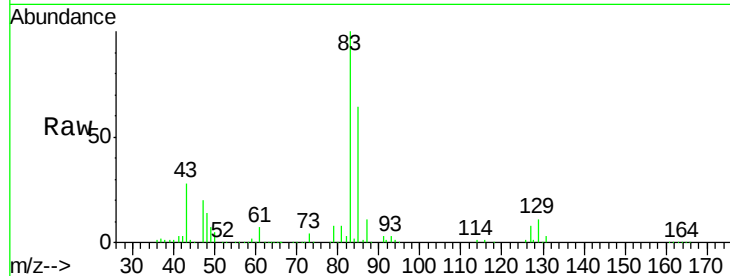
Acq: 30 Apr 2019 00:09

Tot Ion:	83	Resp:	142607
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.4	78.6
127	7.8	6.6	10.0

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.670 ug/l

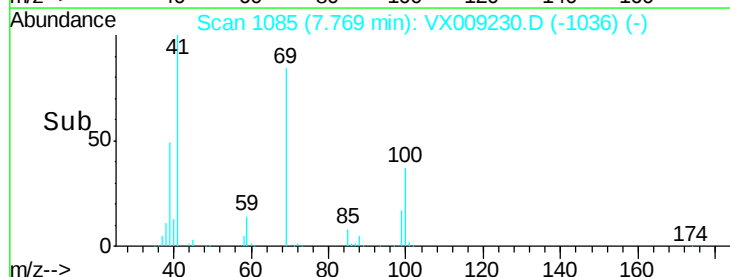
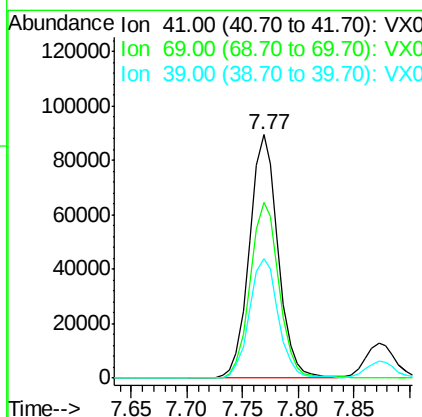
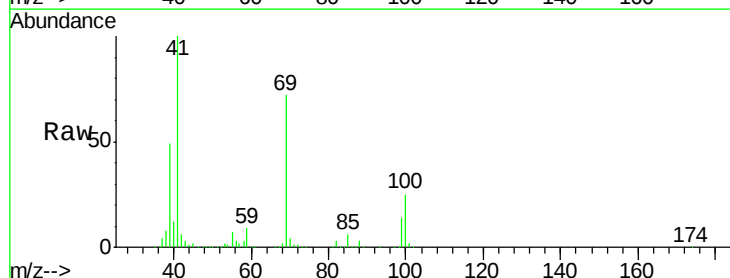
RT: 7.77 min Scan# 1085

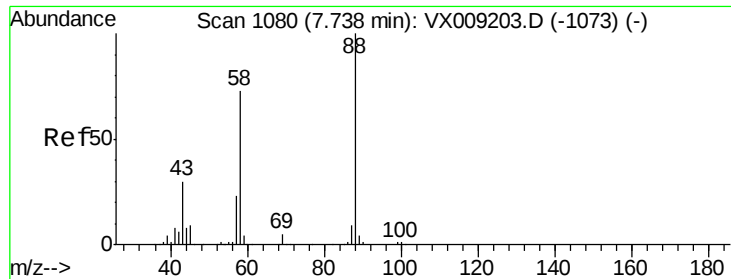
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	41	Resp:	159947
Ion	Ratio	Lower	Upper
41	100		
69	73.3	59.1	88.7
39	49.3	40.4	60.6





#49

1,4-Dioxane

Concen: 827.210 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

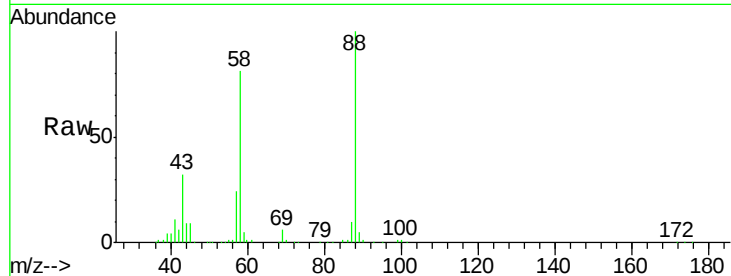
ClientSampleId :

WP021MW038-190423MSD

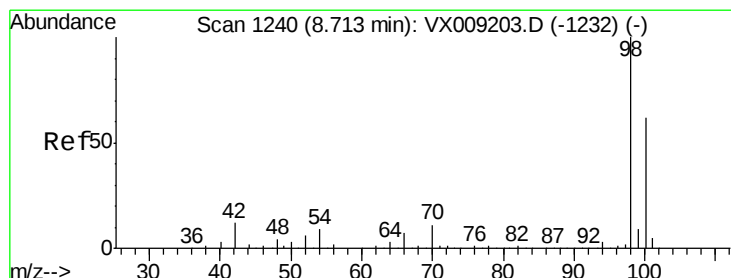
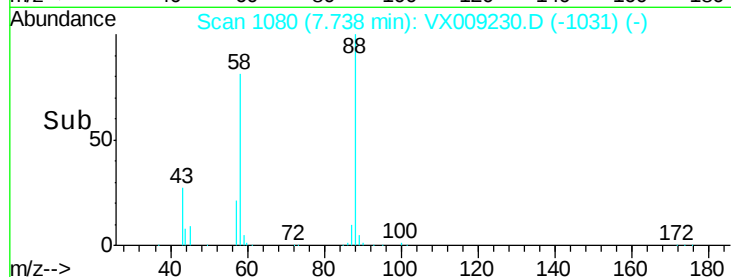
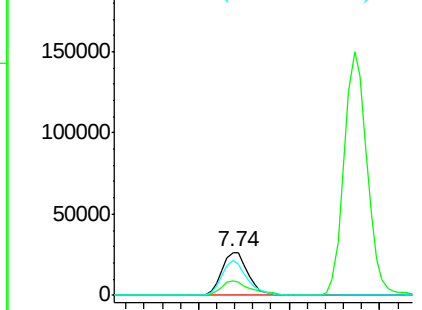
Tot Ion:	88	Resp:	52955
Ion	Ratio	Lower	Upper
88	100		
43	37.7	28.6	42.8
58	79.5	61.7	92.5

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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



#50

Toluene-d8

Concen: 49.001 ug/l

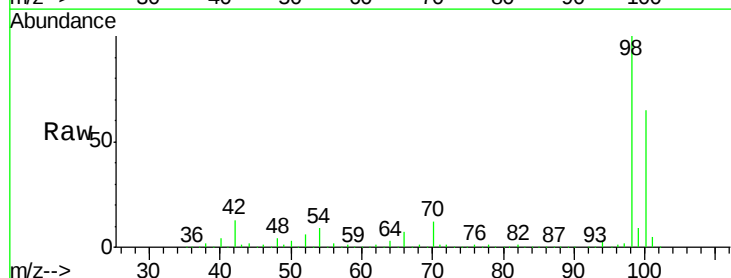
RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

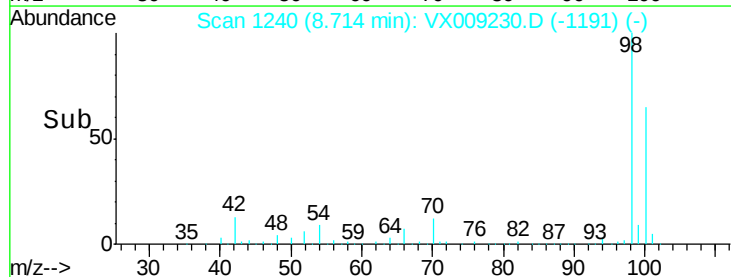
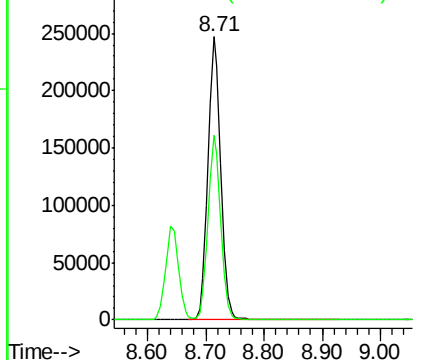
Lab File: VX009230.D

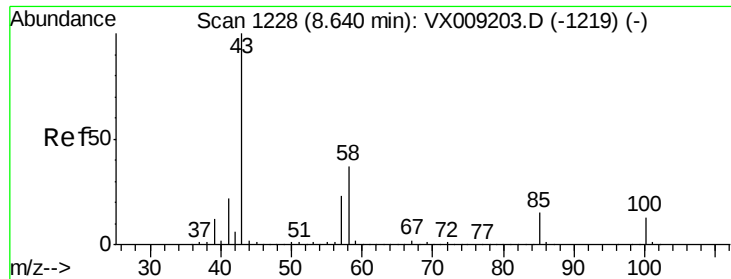
Acq: 30 Apr 2019 00:09

Tgt Ion:	98	Resp:	382056
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.2	76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 249.098 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 43 Resp: 1035932

Ion Ratio Lower Upper

43 100

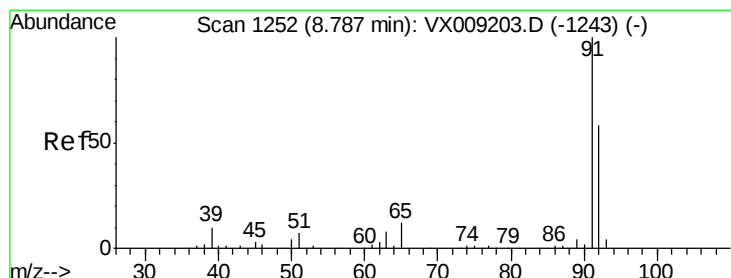
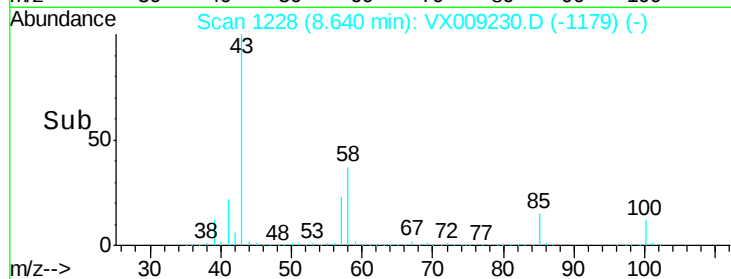
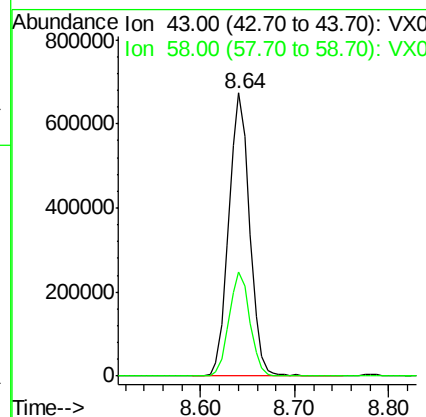
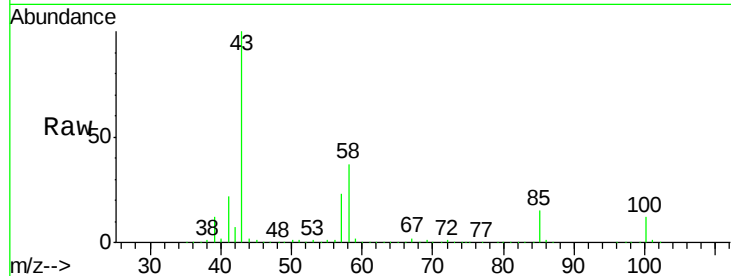
58 36.7 29.5 44.3

Manual Integrations

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#52

Toluene

Concen: 48.026 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX009230.D

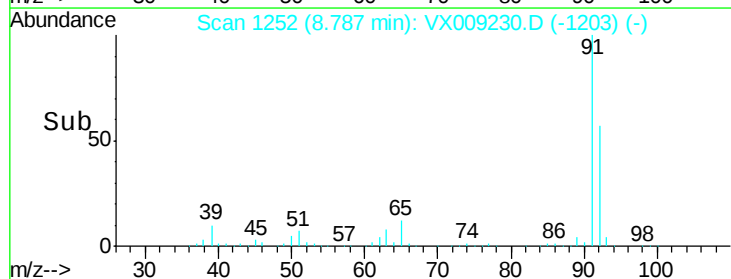
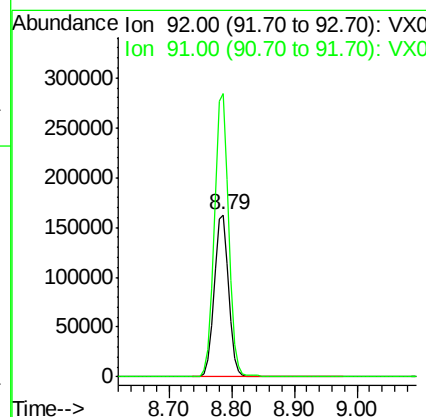
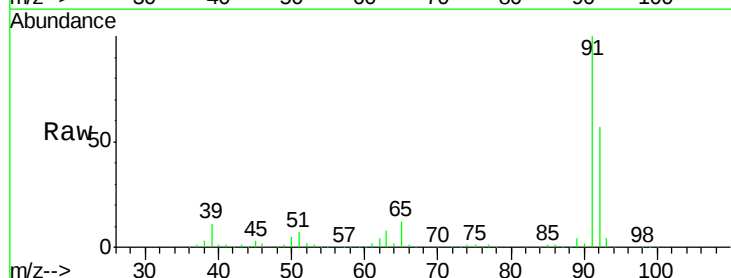
Acq: 30 Apr 2019 00:09

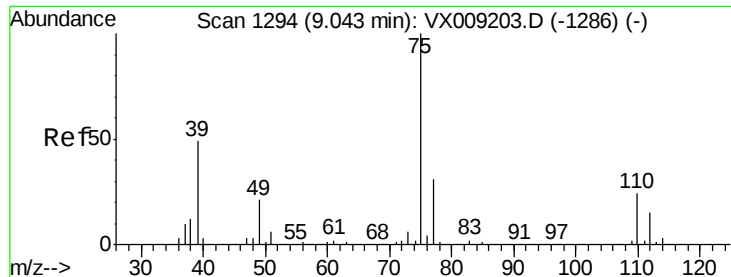
Tgt Ion: 92 Resp: 257938

Ion Ratio Lower Upper

92 100

91 173.5 138.8 208.2





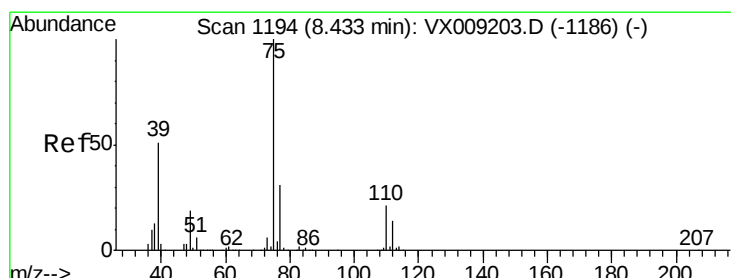
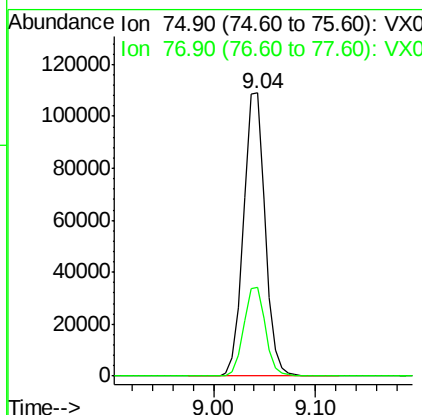
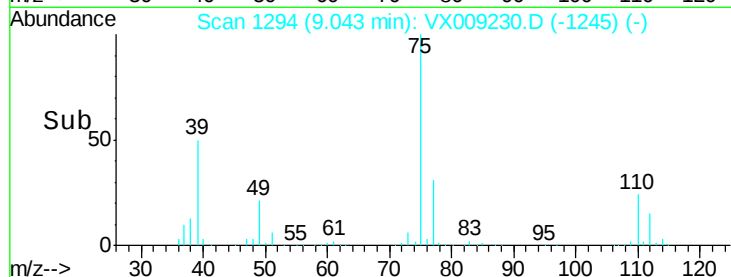
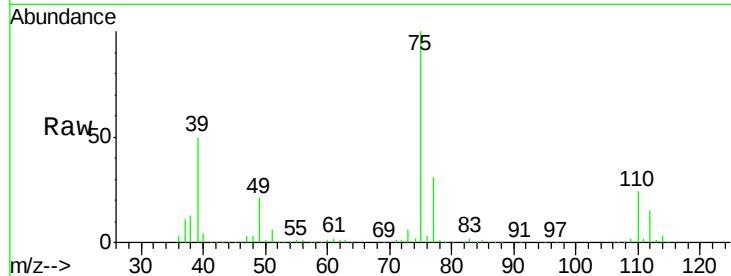
#53
 t-1,3-Dichloropropene
 Concen: 48.811 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion: 75 Resp: 159707
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.0 37.6

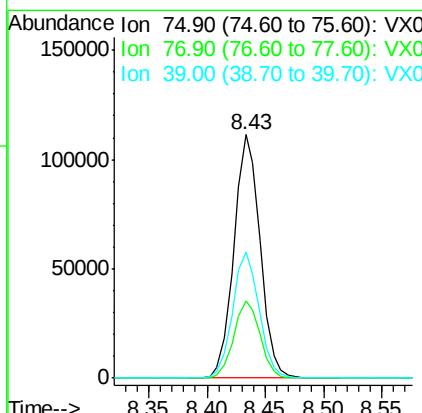
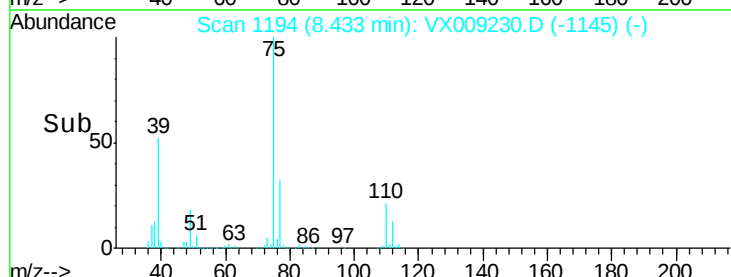
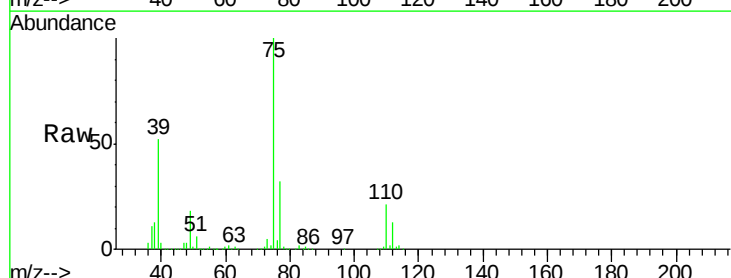
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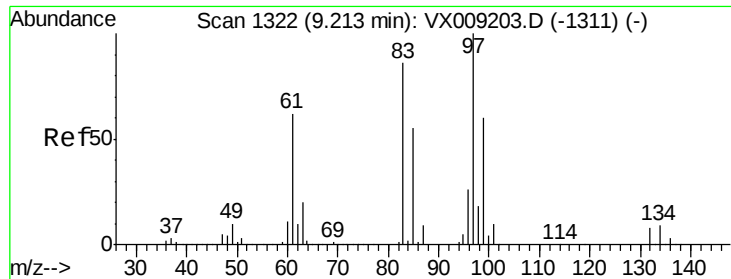
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 48.279 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion: 75 Resp: 174844
 Ion Ratio Lower Upper
 75 100
 77 31.6 24.6 36.8
 39 51.6 40.6 60.8





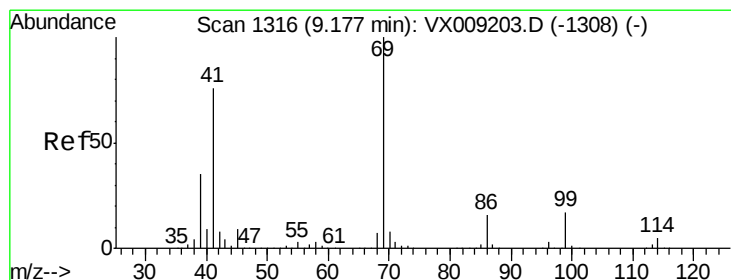
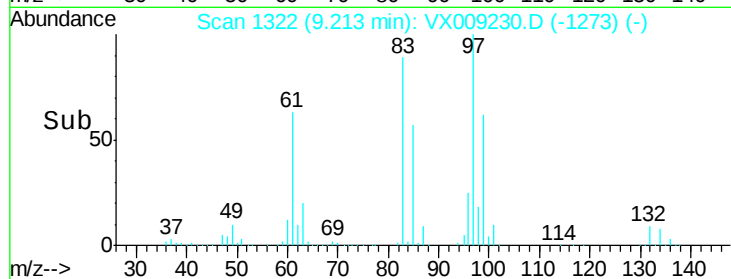
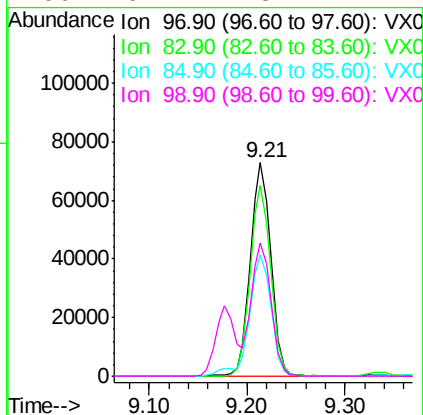
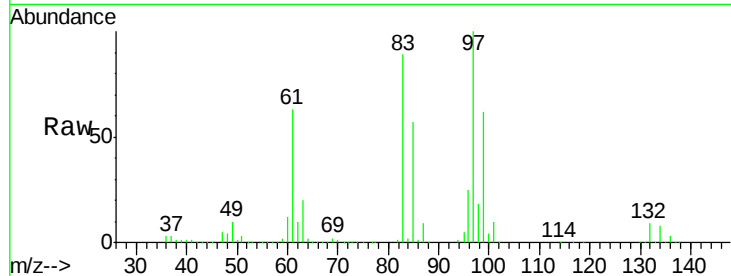
#55
 1,1,2-Trichloroethane
 Concen: 48.646 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion:	97	Resp:	106591
Ion Ratio	Lower	Upper	
97	100		
83	89.0	68.9	103.3
85	56.8	43.8	65.6
99	62.2	48.2	72.2

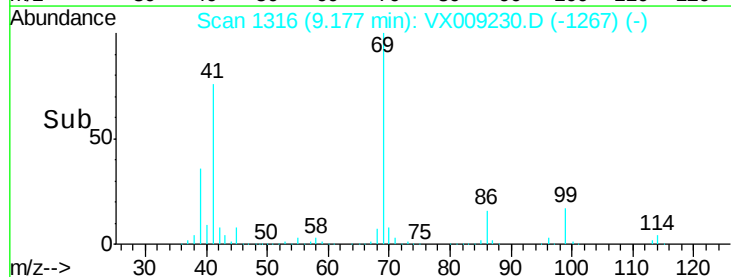
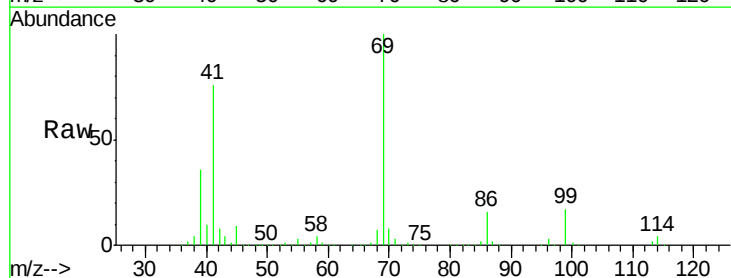
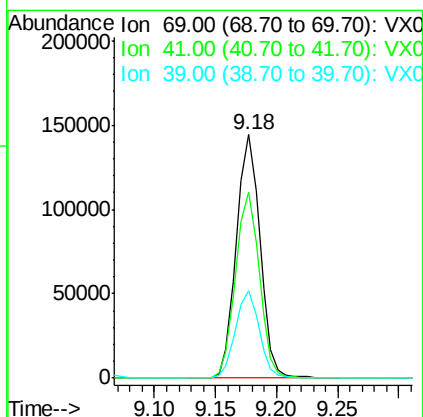
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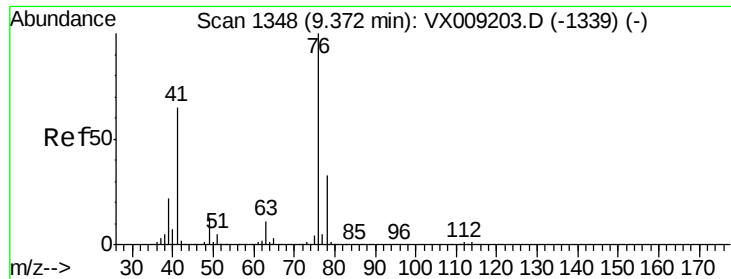
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#56
 Ethyl methacrylate
 Concen: 49.640 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion:	69	Resp:	194160
Ion Ratio	Lower	Upper	
69	100		
41	76.4	60.6	90.8
39	35.8	28.2	42.4





#57

1,3-Dichloropropane

Concen: 48.504 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 76 Resp: 187027

Ion Ratio Lower Upper

76 100

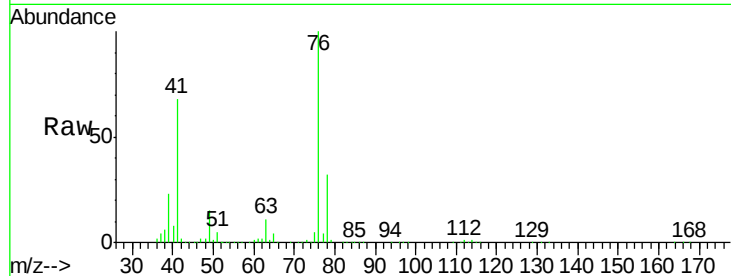
78 32.1 25.5 38.3

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.37

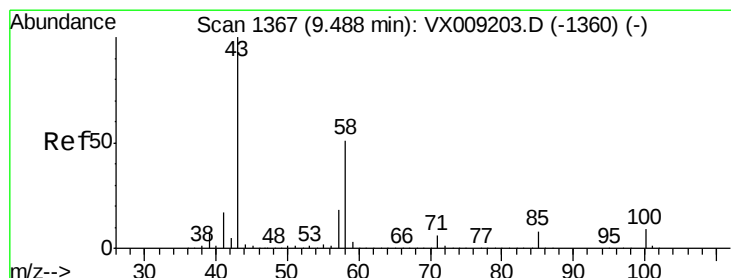
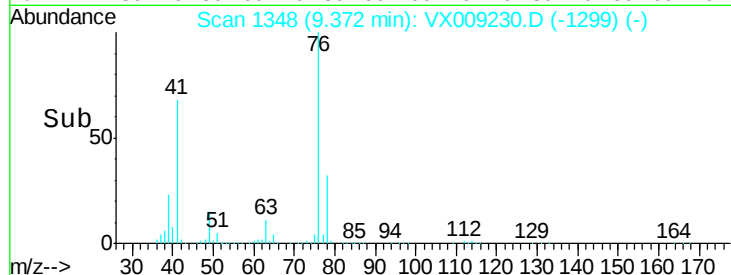
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 246.357 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VX009230.D

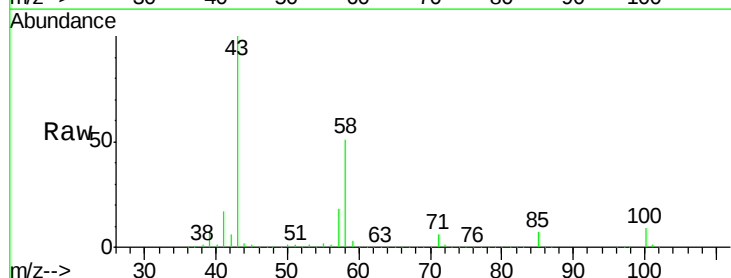
Acq: 30 Apr 2019 00:09

Tgt Ion: 43 Resp: 804658

Ion Ratio Lower Upper

43 100

58 51.5 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.49

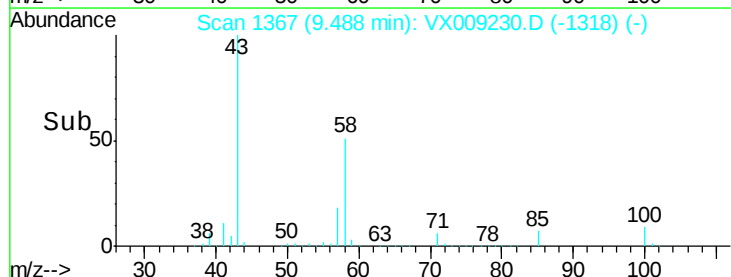
600000

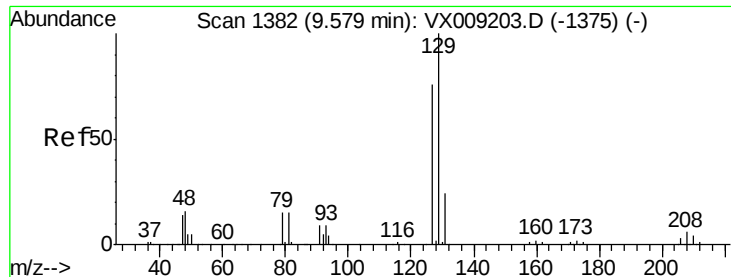
400000

200000

0

Time-->





#60

Dibromochloromethane

Concen: 49.769 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:129 Resp: 106510

Ion Ratio Lower Upper

129 100

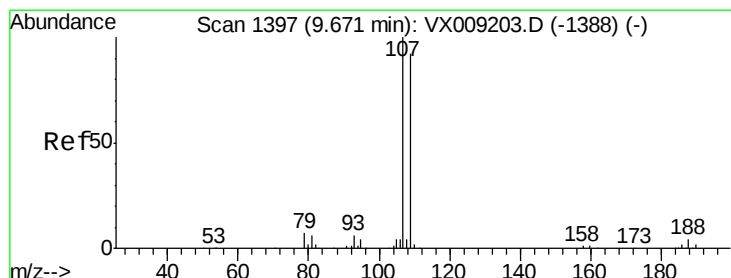
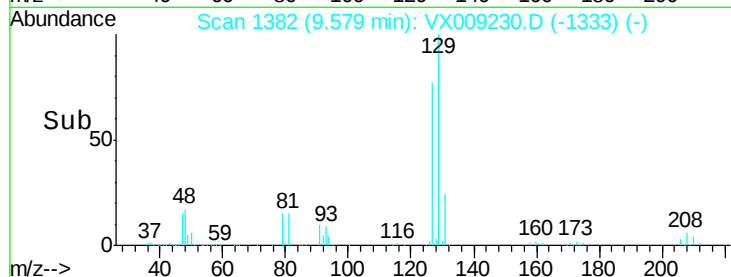
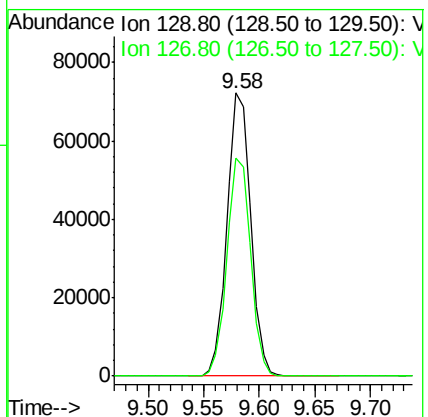
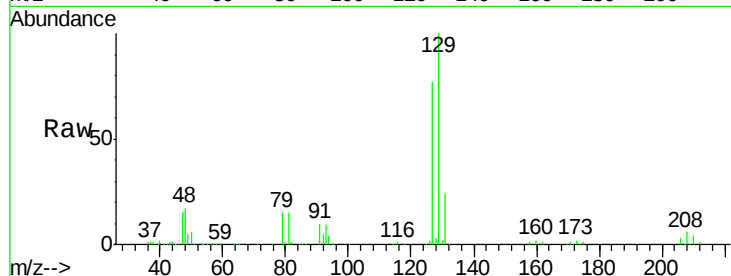
127 77.2 38.4 115.1

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#61

1,2-Dibromoethane

Concen: 49.195 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX009230.D

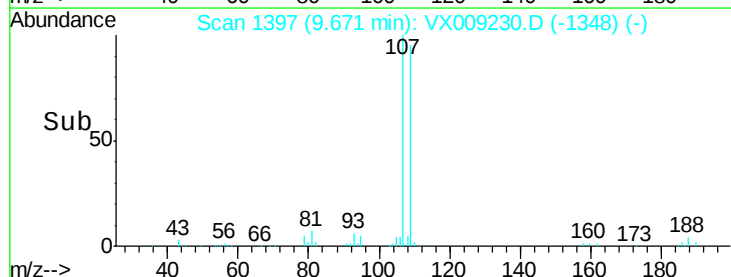
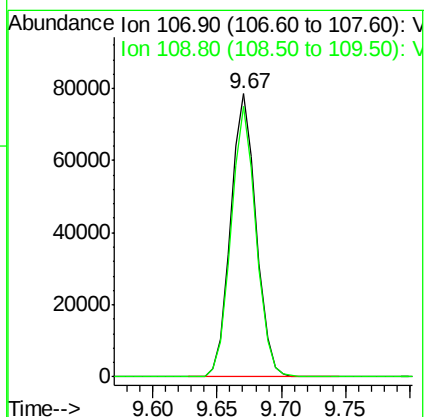
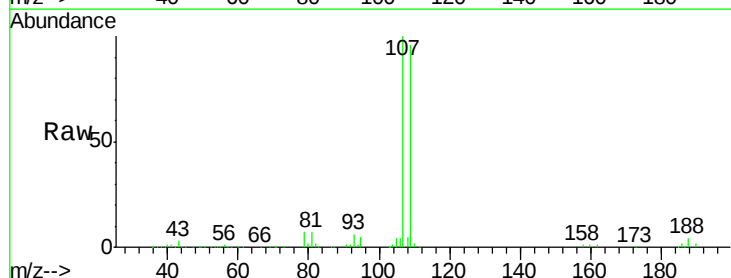
Acq: 30 Apr 2019 00:09

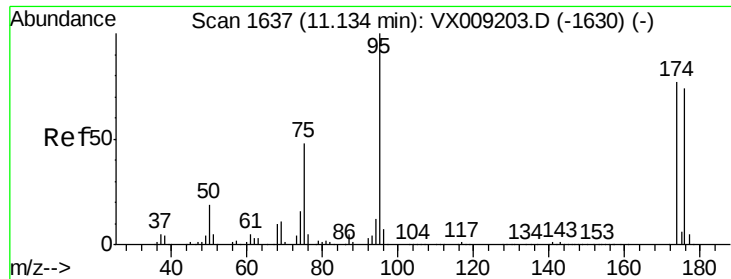
Tgt Ion:107 Resp: 108811

Ion Ratio Lower Upper

107 100

109 94.2 75.2 112.8





#62

4-Bromofluorobenzene

Concen: 49.463 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

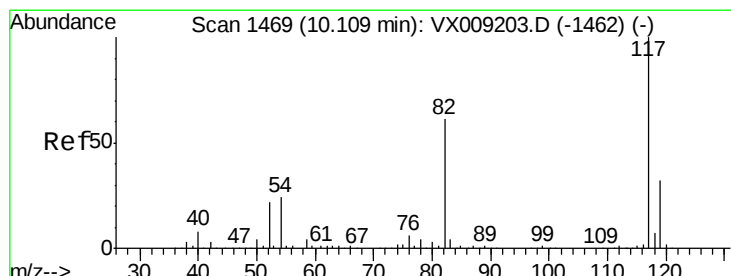
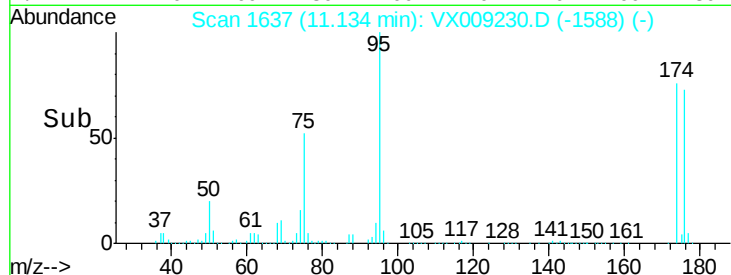
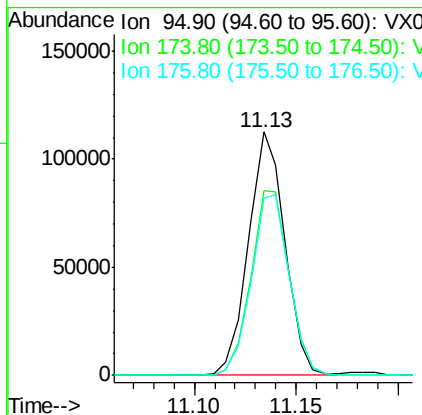
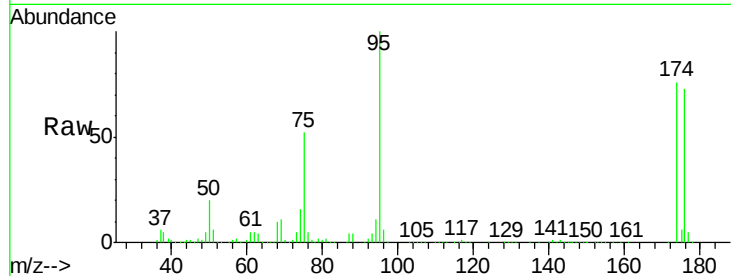
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	95	Resp:	140131
Ion Ratio	Lower	Upper	
95	100		
174	79.5	0.0	161.6
176	77.2	0.0	159.2

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

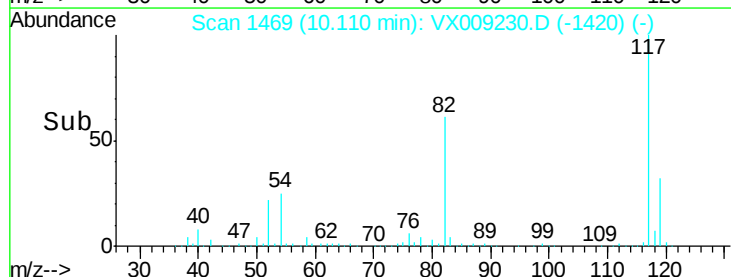
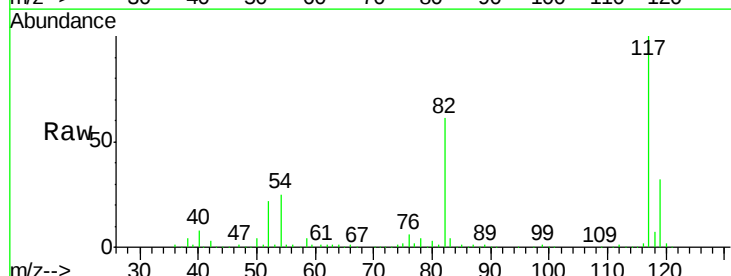
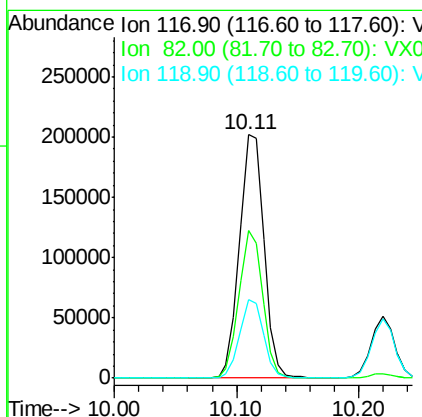
RT: 10.11 min Scan# 1469

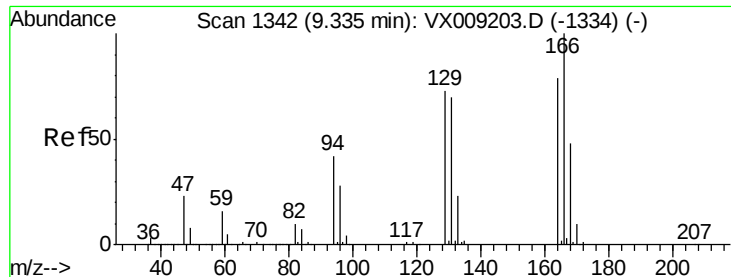
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	117	Resp:	280289
Ion Ratio	Lower	Upper	
117	100		
82	60.7	48.8	73.2
119	32.4	25.8	38.6





#64

Tetrachloroethene

Concen: 44.554 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:164 Resp: 85663

Ion Ratio Lower Upper

164 100

166 127.8 101.2 151.8

129 92.7 74.3 111.5

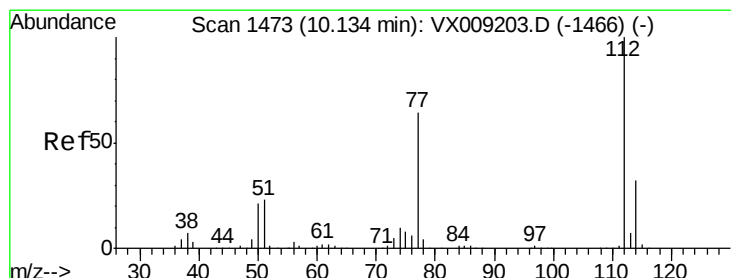
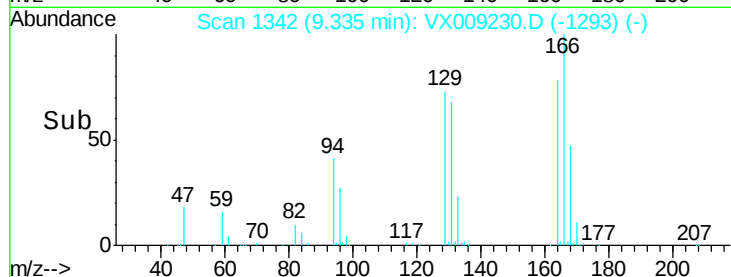
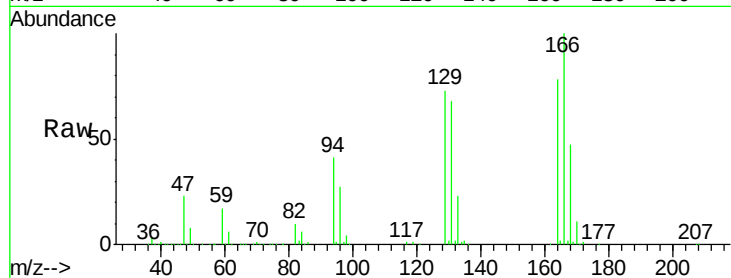
131 87.3 71.0 106.6

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#65

Chlorobenzene

Concen: 49.919 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX009230.D

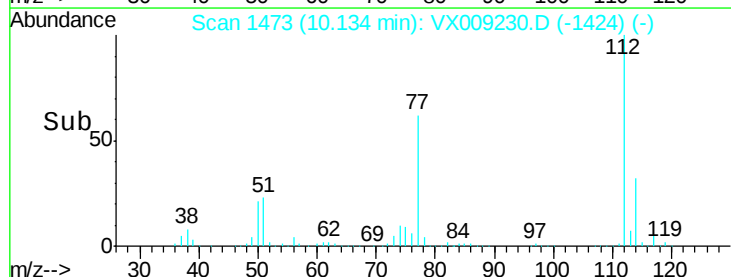
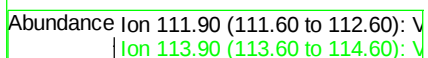
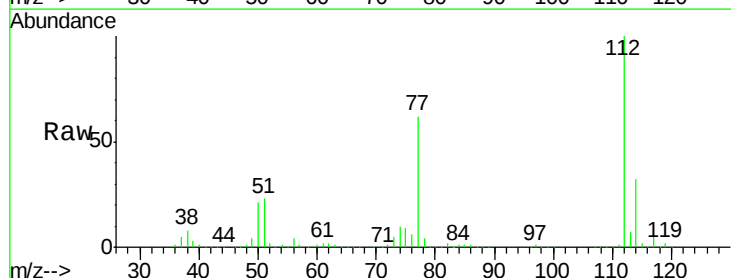
Acq: 30 Apr 2019 00:09

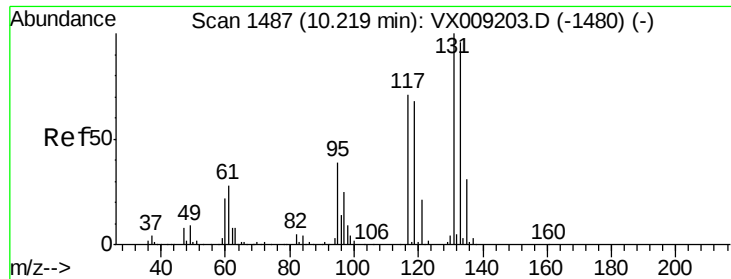
Tgt Ion:112 Resp: 279900

Ion Ratio Lower Upper

112 100

114 31.6 25.5 38.3





#66

1,1,1,2-Tetrachloroethane

Concen: 48.243 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:131 Resp: 98068

Ion Ratio Lower Upper

131 100

133 95.5 47.7 143.1

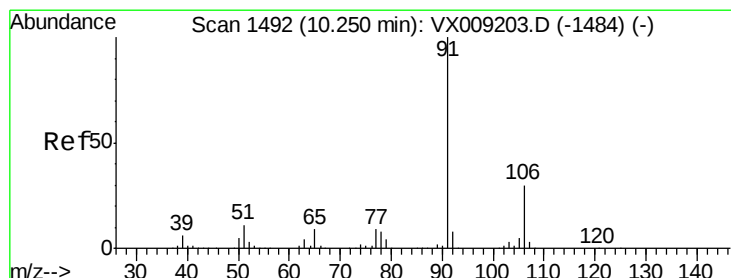
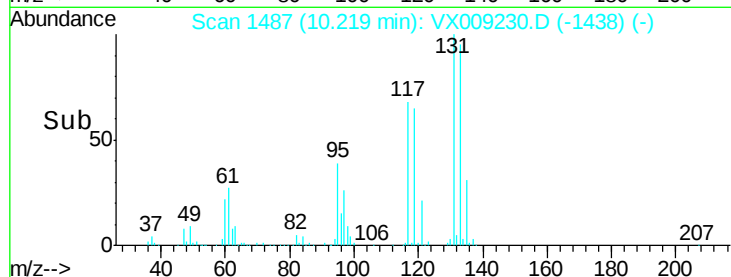
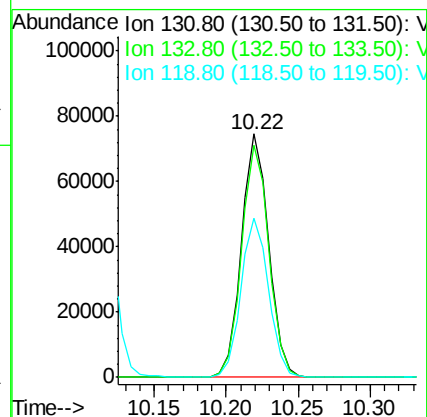
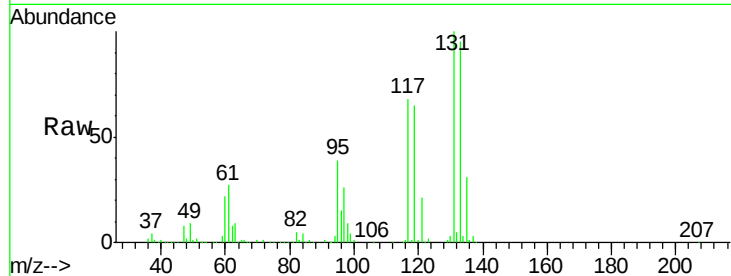
119 66.6 33.5 100.4

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#67

Ethyl Benzene

Concen: 47.652 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX009230.D

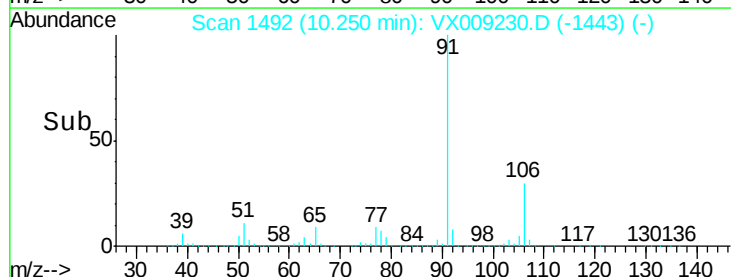
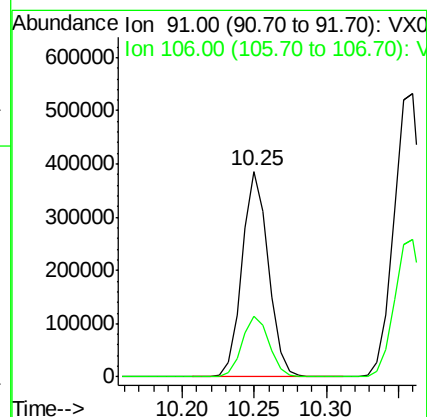
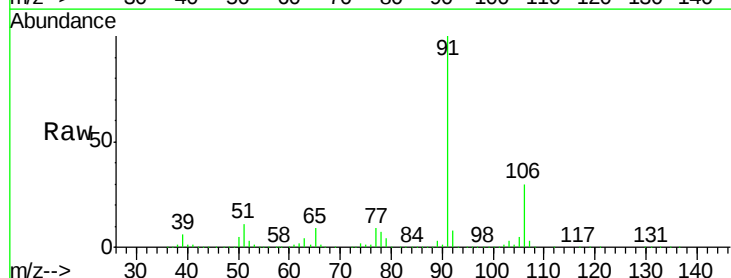
Acq: 30 Apr 2019 00:09

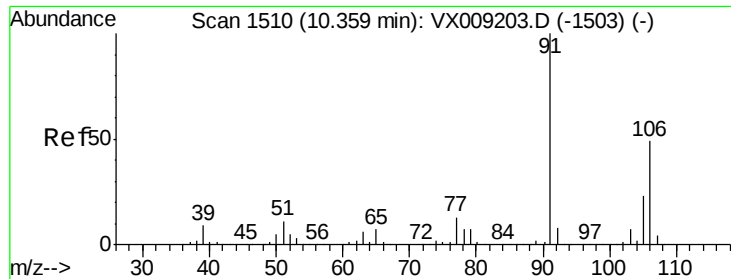
Tgt Ion: 91 Resp: 491722

Ion Ratio Lower Upper

91 100

106 29.6 24.0 36.0





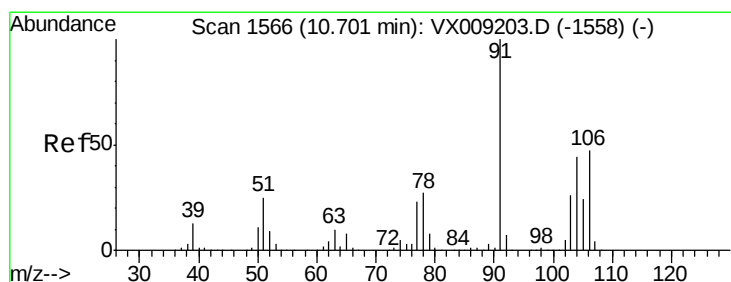
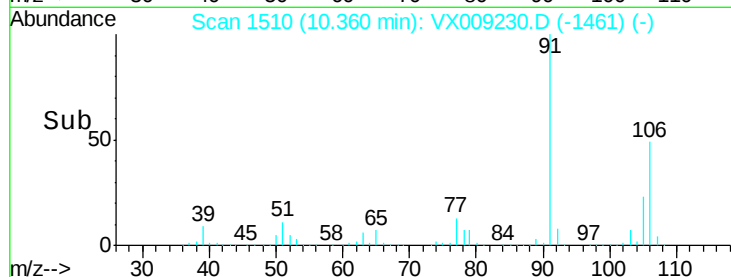
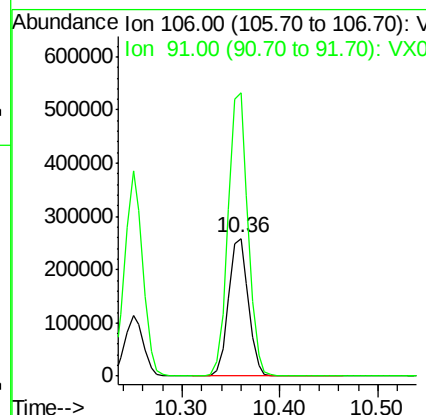
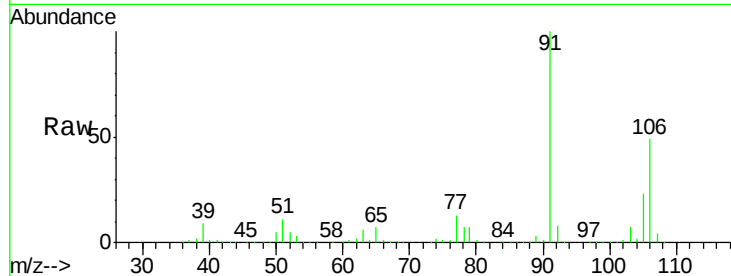
#68
m/p-Xylenes
Concen: 96.039 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion:106 Resp: 362154
Ion Ratio Lower Upper
106 100
91 207.1 164.0 246.0

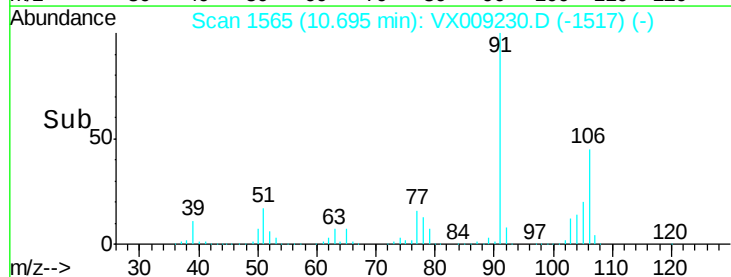
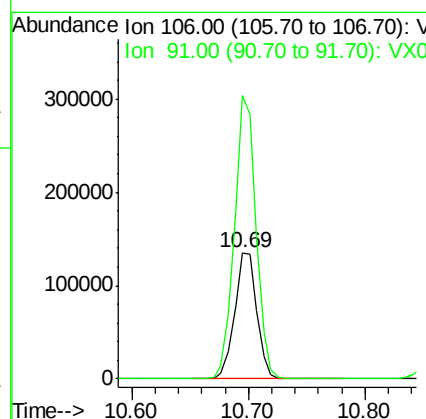
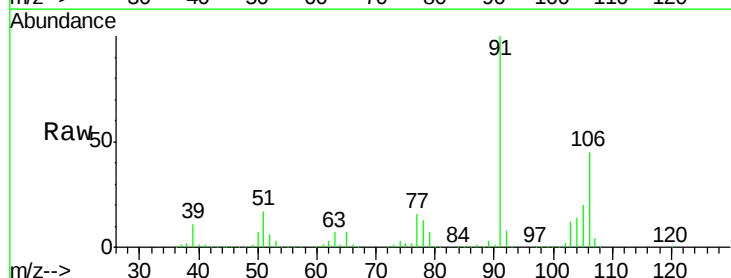
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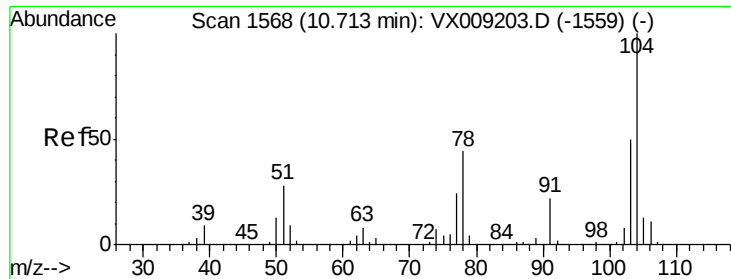
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#69
o-Xylene
Concen: 48.198 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion:106 Resp: 179325
Ion Ratio Lower Upper
106 100
91 218.2 109.5 328.4





#70

Stvrene

Concen: 48.571 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:104 Resp: 314089

Ion Ratio Lower Upper

104 100

78 51.7 41.0 61.4

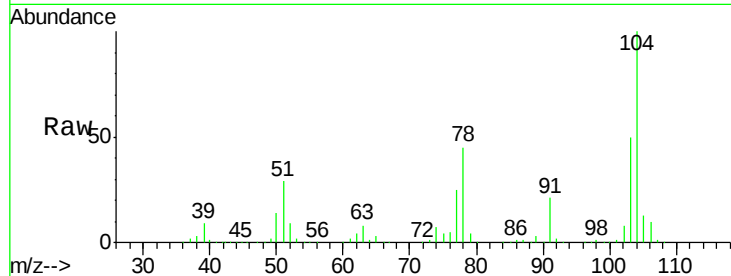
103 55.5 43.8 65.6

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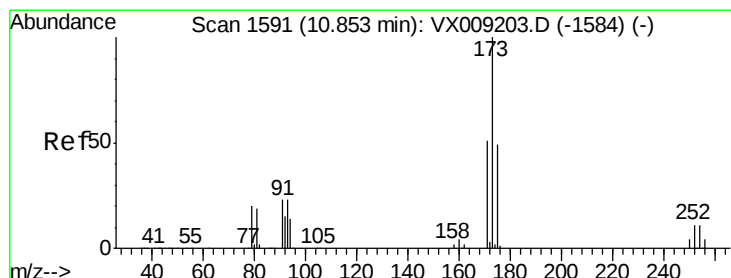
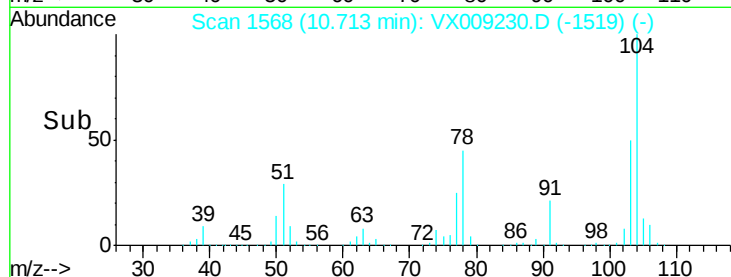
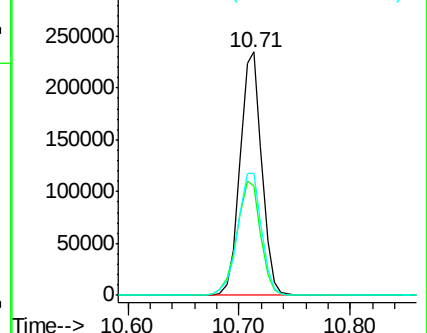
4/30/2019 11:04:05 AM



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 48.979 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

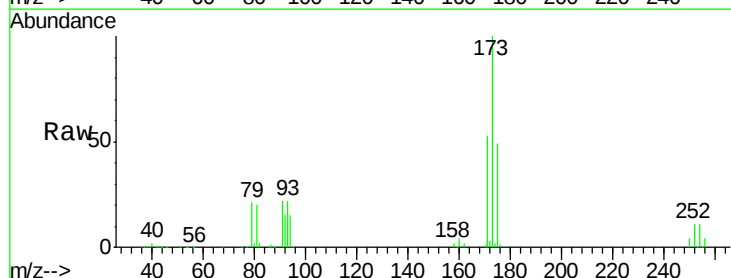
Tgt Ion:173 Resp: 80910

Ion Ratio Lower Upper

173 100

175 48.2 24.5 73.5

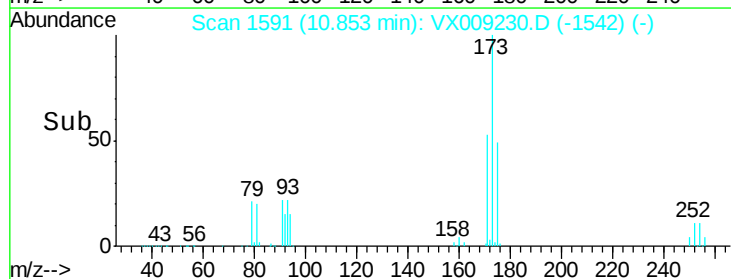
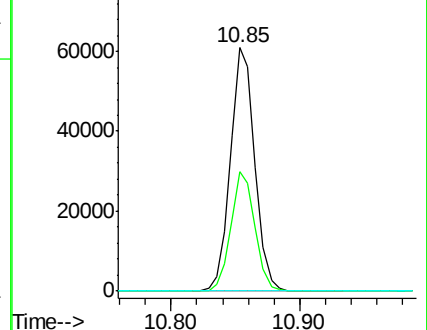
254 0.2 0.1 0.1#

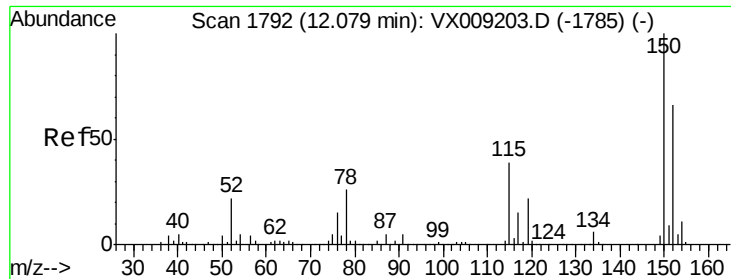


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion:152 Resp: 135285

Ion Ratio Lower Upper

152 100

115 80.9 41.2 123.6

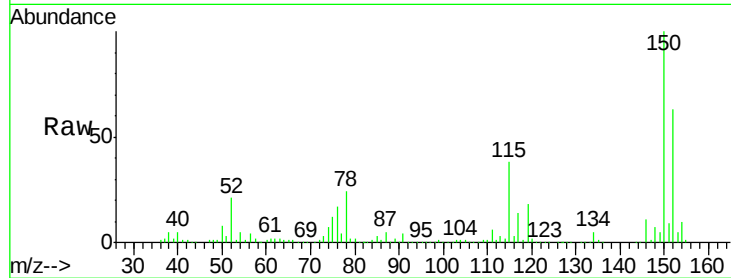
150 172.6 0.0 346.4

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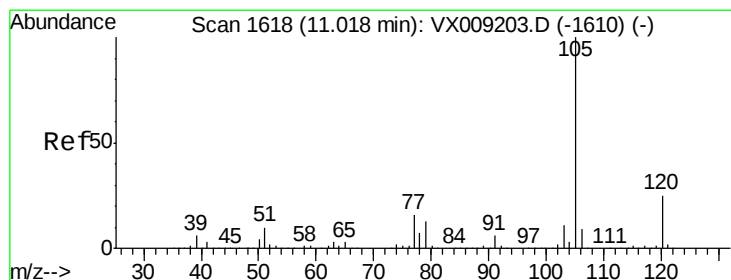
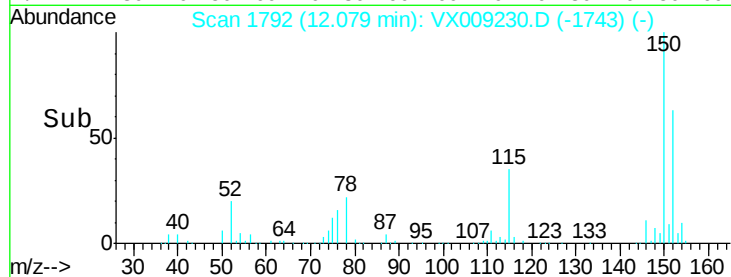
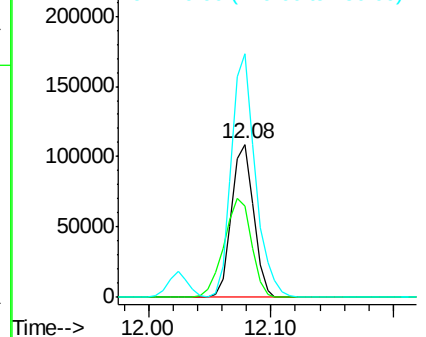
4/30/2019 11:04:05 AM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 47.929 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009230.D

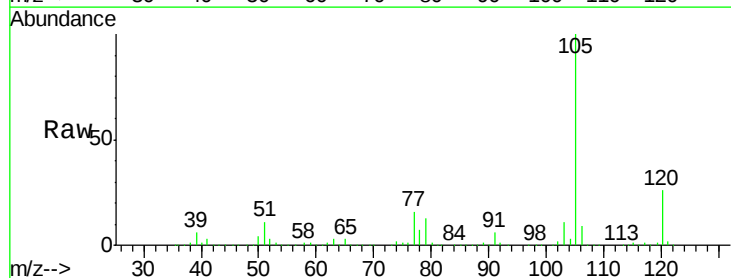
Acq: 30 Apr 2019 00:09

Tgt Ion:105 Resp: 471511

Ion Ratio Lower Upper

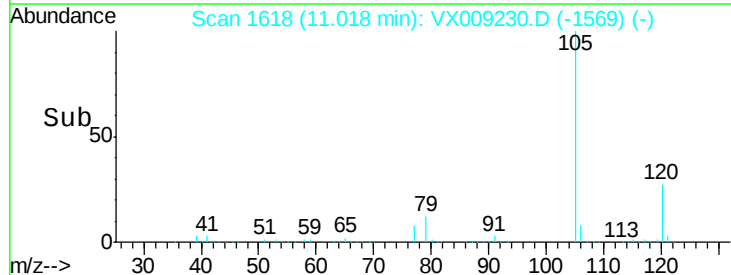
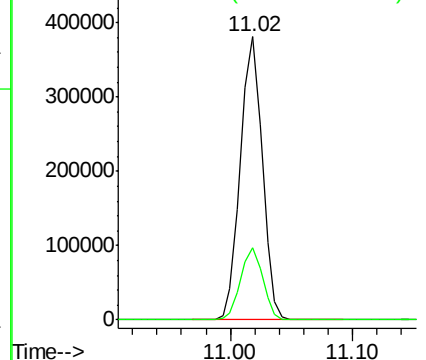
105 100

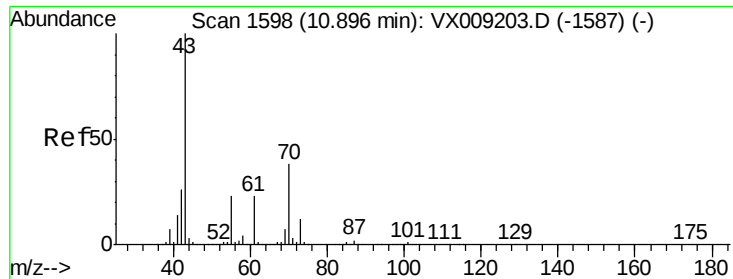
120 25.7 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 48.815 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

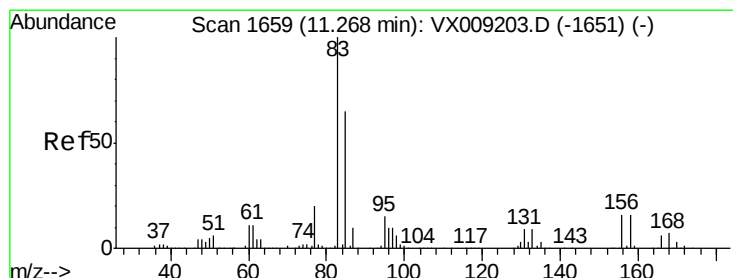
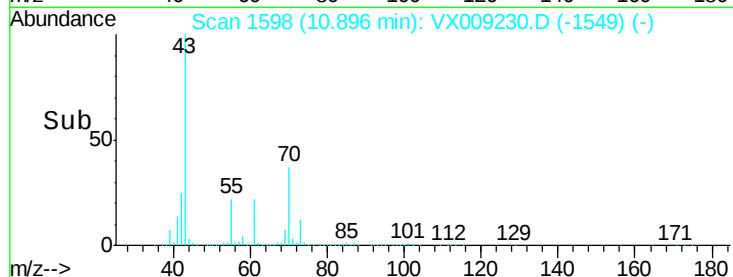
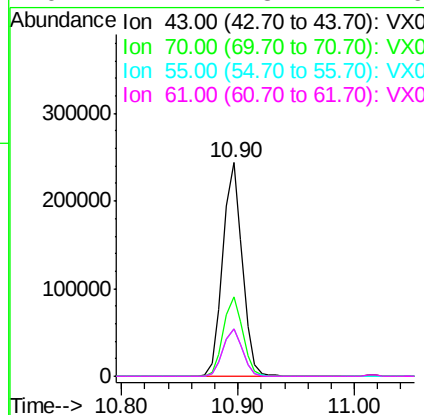
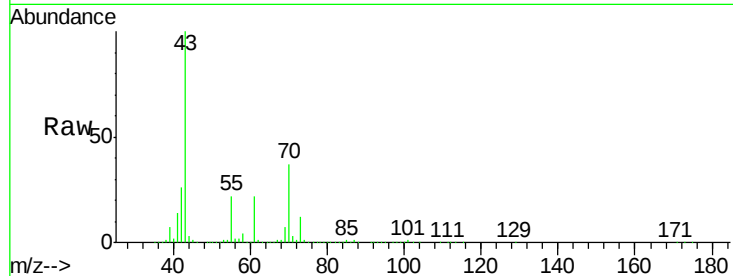
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	43	Resp:	279981
Ion	Ratio	Lower	Upper
43	100		
70	37.5	30.0	45.0
55	22.4	17.9	26.9
61	22.4	18.4	27.6

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4/30/2019 11:04:05 AM



#75

1,1,2,2-Tetrachloroethane

Concen: 48.844 ug/l

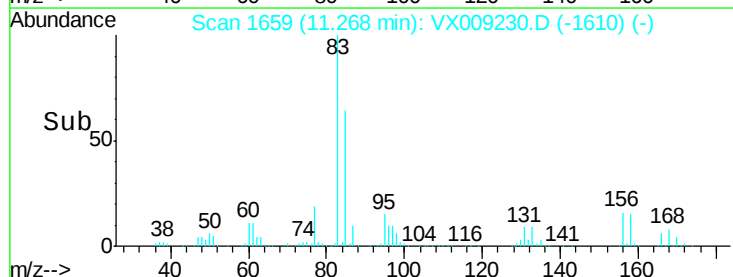
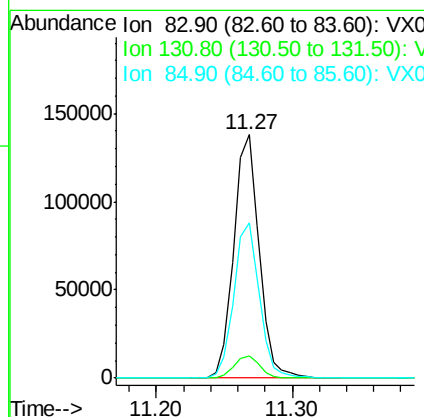
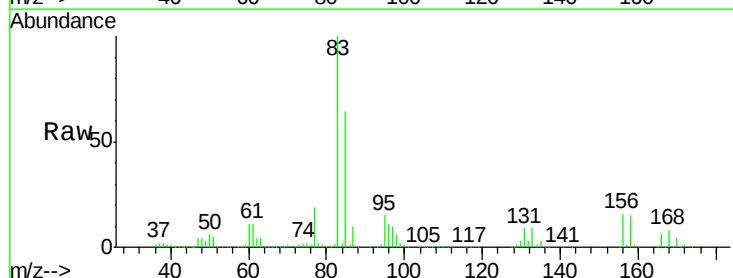
RT: 11.27 min Scan# 1659

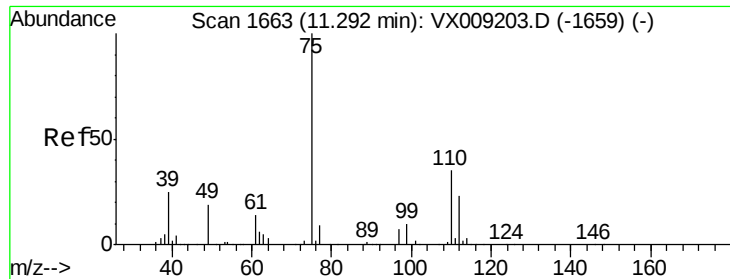
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	83	Resp:	179131
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.6	13.8
85	64.4	32.0	96.2





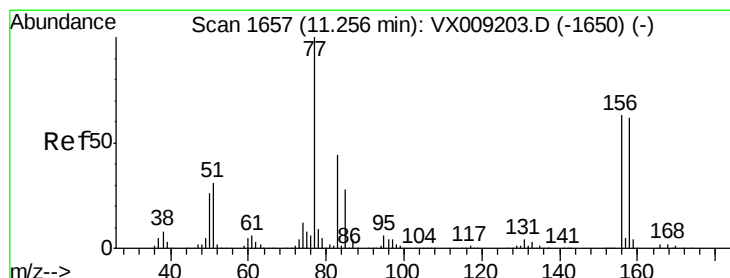
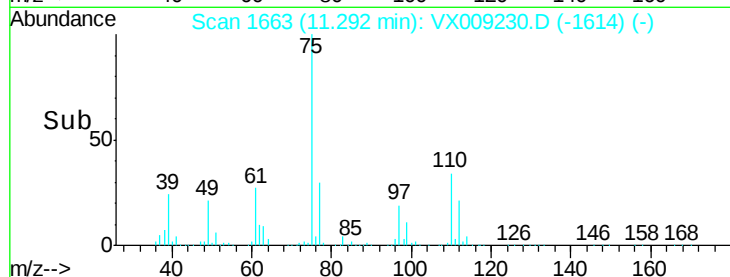
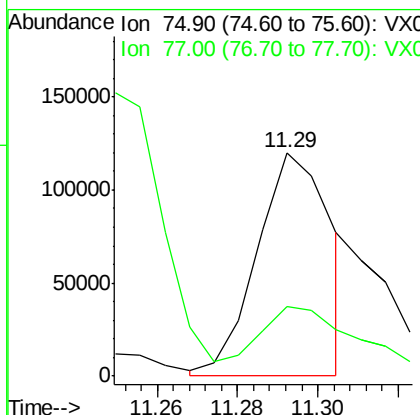
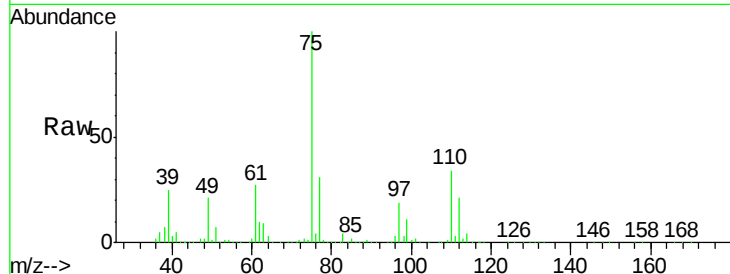
#76
 1,2,3-Trichloropropane
 Concen: 49.041 ug/l m
 RT: 11.29 min Scan# 1663
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion: 75 Resp: 153898
 Ion Ratio Lower Upper
 75 100
 77 42.7 22.1 66.1

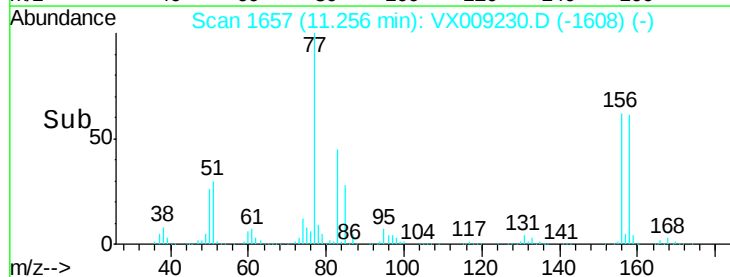
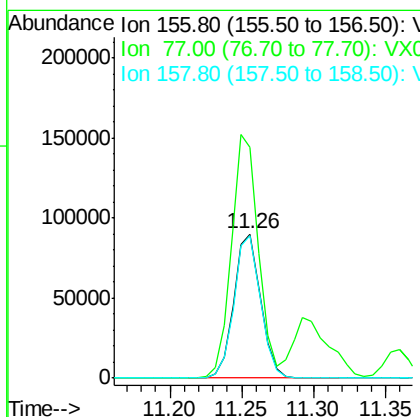
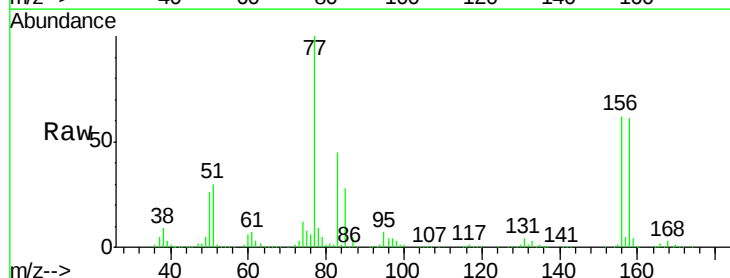
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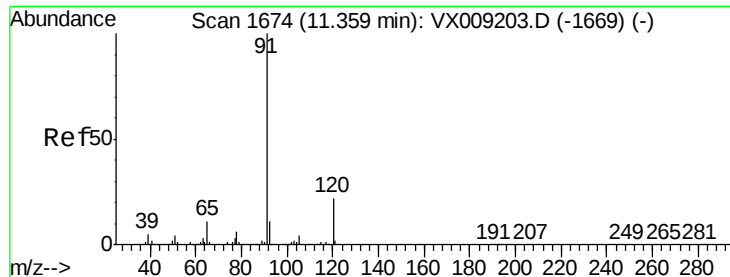
MMDadoda
 4/30/2019 11:04:05 AM



#77
 Bromobenzene
 Concen: 47.901 ug/l
 RT: 11.26 min Scan# 1657
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion: 156 Resp: 116964
 Ion Ratio Lower Upper
 156 100
 77 170.1 84.8 254.3
 158 97.9 49.1 147.3





#78

n-propylbenzene

Concen: 48.073 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 91 Resp: 540107

Ion Ratio Lower Upper

91 100

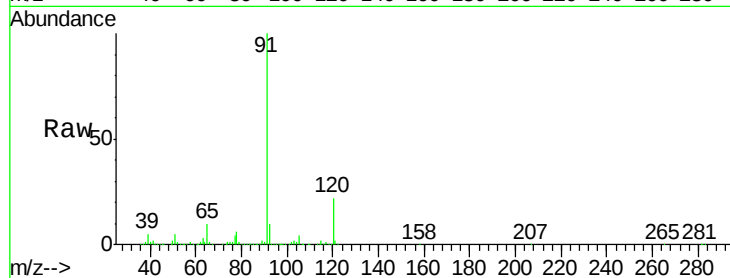
120 22.0 11.0 33.0

Manual Integrations

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MMDadoda

4/30/2019 11:04:05 AM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.36

500000

400000

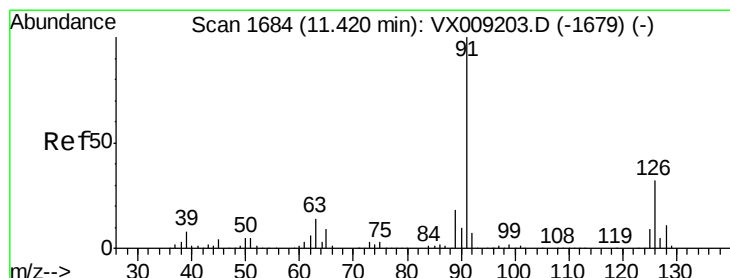
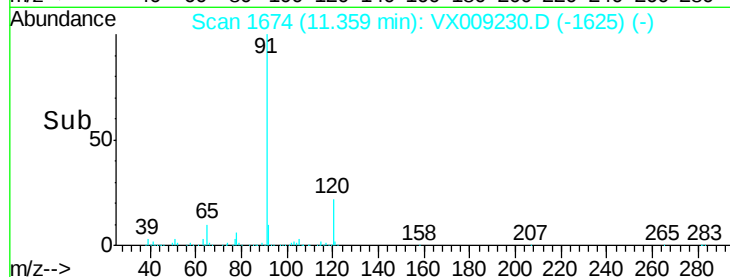
300000

200000

100000

0

Time--> 11.30 11.35 11.40



#79

2-Chlorotoluene

Concen: 46.990 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX009230.D

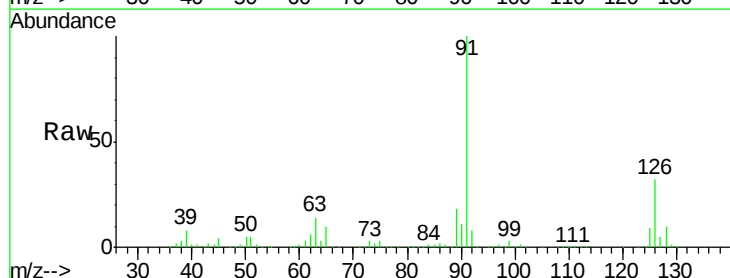
Acq: 30 Apr 2019 00:09

Tgt Ion: 91 Resp: 325715

Ion Ratio Lower Upper

91 100

126 32.3 16.3 48.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

11.42

500000

400000

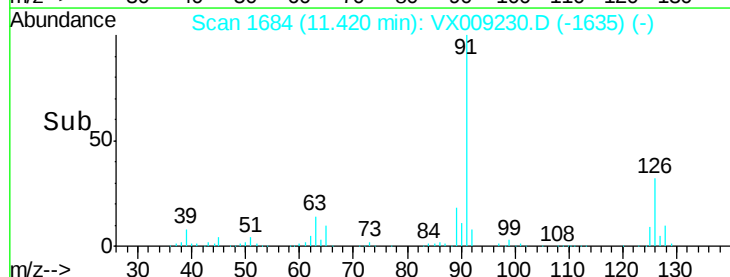
300000

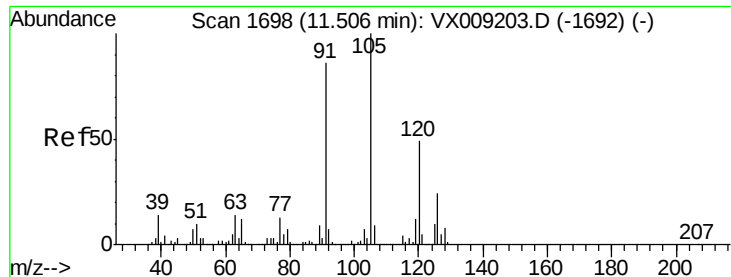
200000

100000

0

Time--> 11.40 11.45





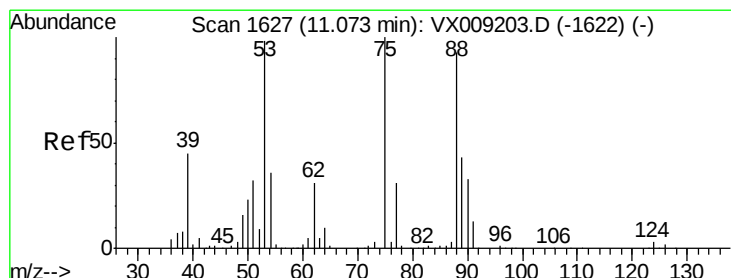
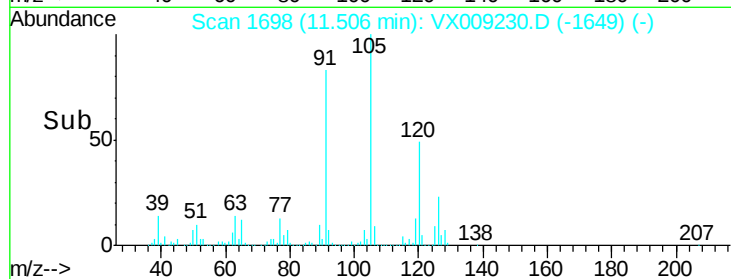
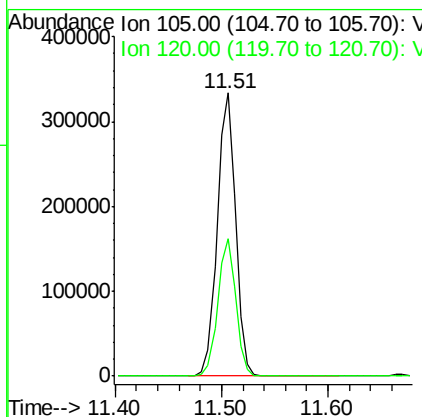
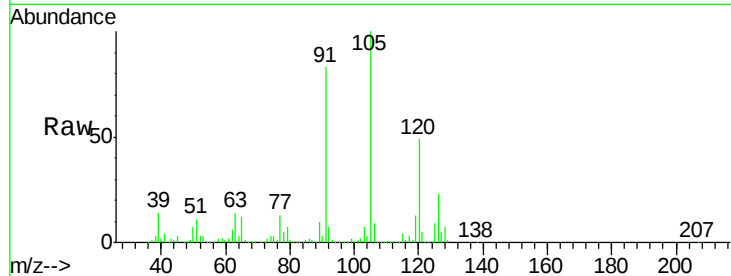
#80
 1,3,5-Trimethylbenzene
 Concen: 47.967 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.3	72.9

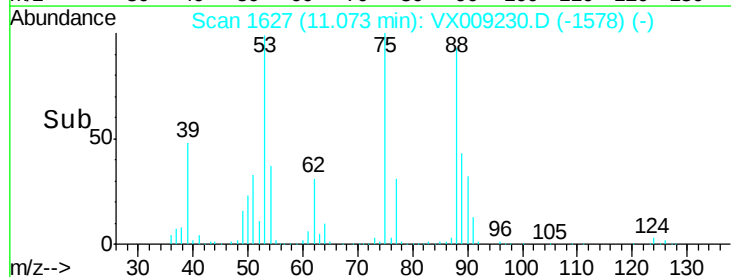
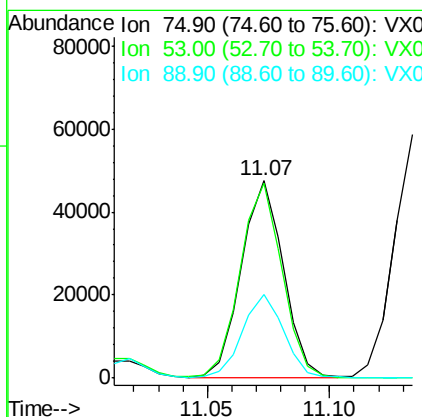
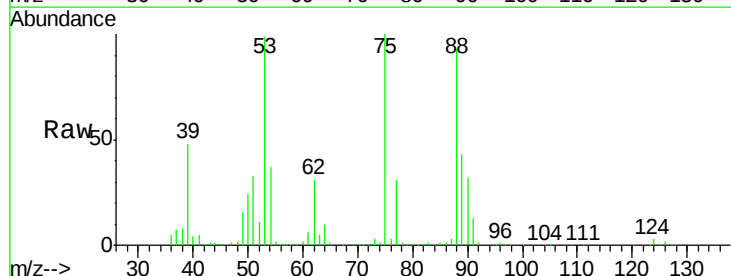
Manual Integrations
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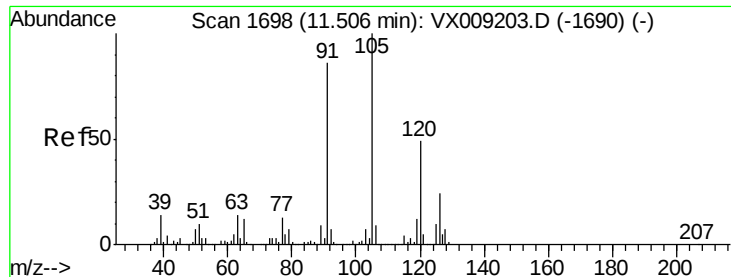
MMDadoda
 4/30/2019 11:04:05 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.356 ug/l
 RT: 11.07 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
75	100		
53	98.4	79.0	118.6
89	42.1	34.7	52.1





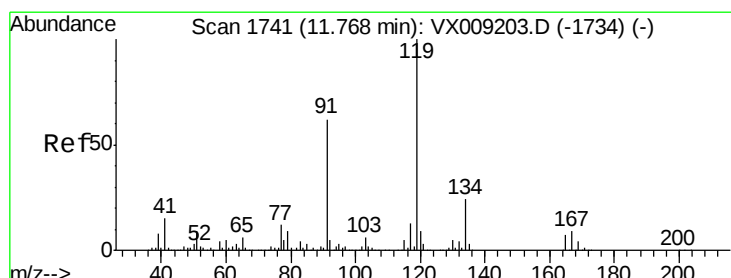
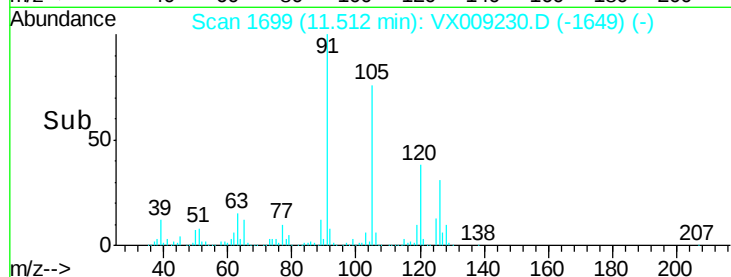
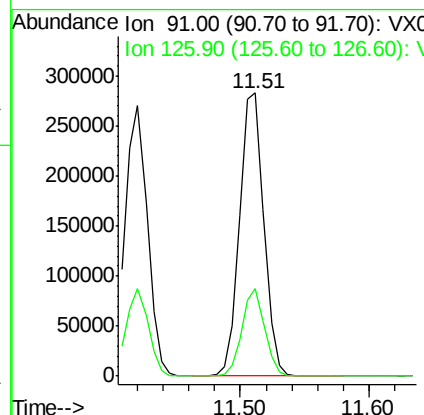
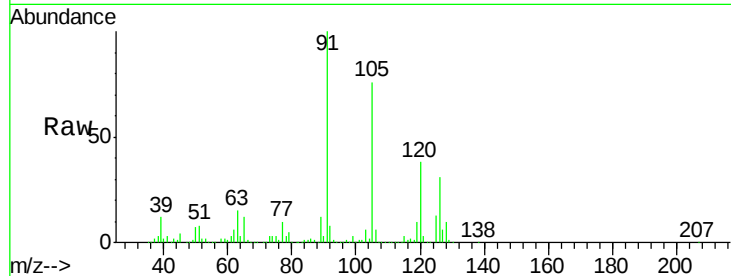
#82
4-Chlorotoluene
Concen: 47.440 ug/l
RT: 11.51 min Scan# 1699
Delta R.T. 0.01 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Resp	Lower	Upper
91	100	371485		
126	28.9	14.5	43.6	

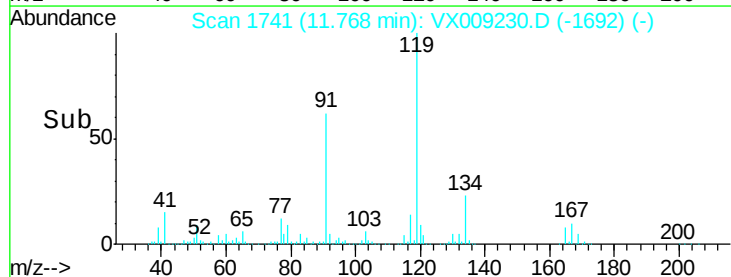
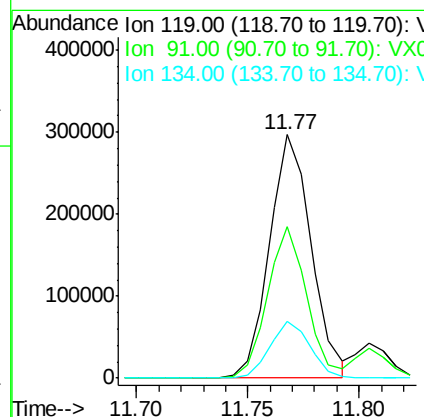
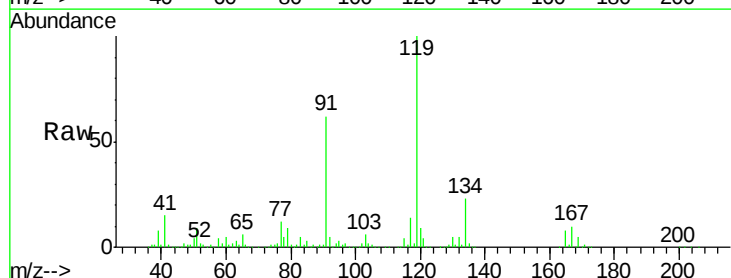
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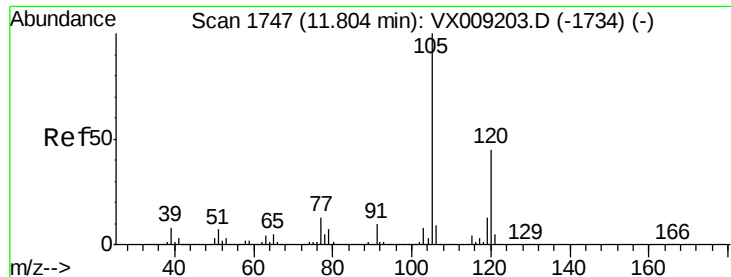
MMDadoda
4/30/2019 11:04:05 AM



#83
tert-Butylbenzene
Concen: 47.845 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	385540		
91	58.6	29.5	88.5	
134	22.4	11.4	34.1	





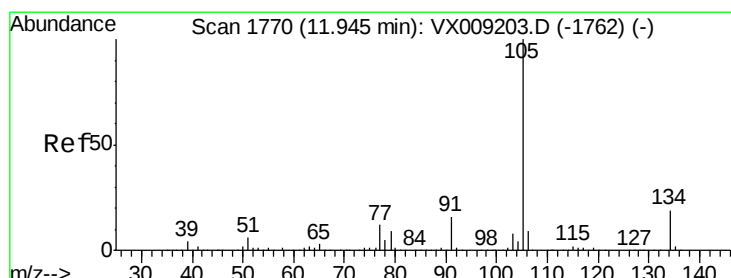
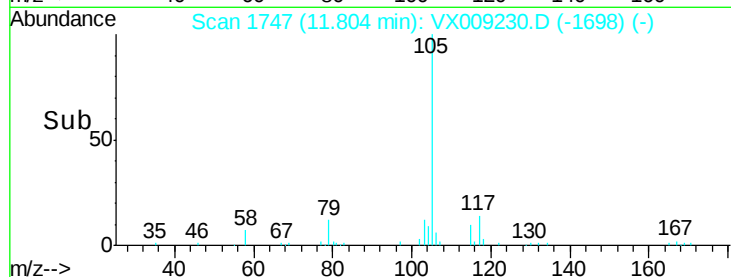
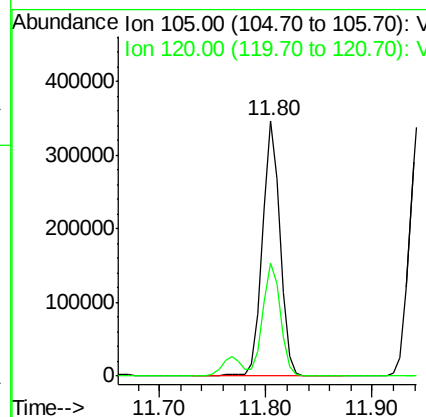
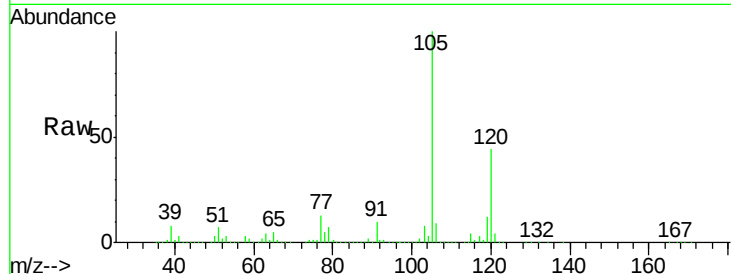
#84
 1,2,4-Trimethylbenzene
 Concen: 48.333 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion:105 Resp: 401861
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.0 66.0

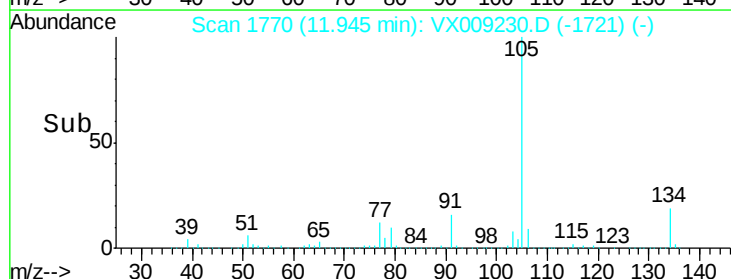
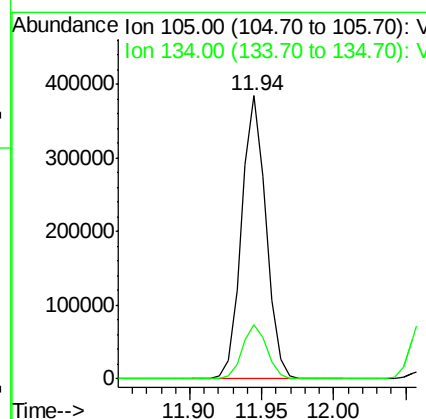
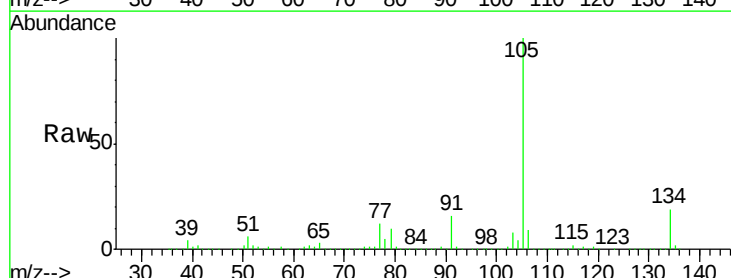
Manual Integrations
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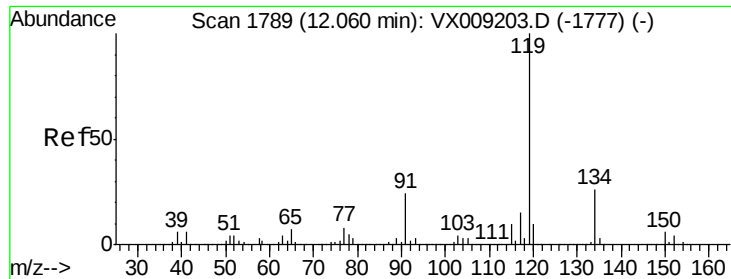
MMDadoda
 4/30/2019 11:04:05 AM



#85
 sec-Butylbenzene
 Concen: 47.402 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion:105 Resp: 452849
 Ion Ratio Lower Upper
 105 100
 134 19.1 9.7 28.9





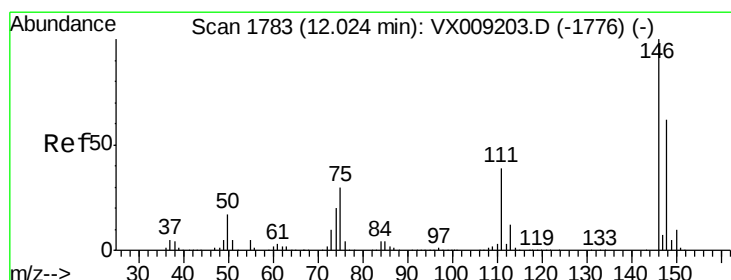
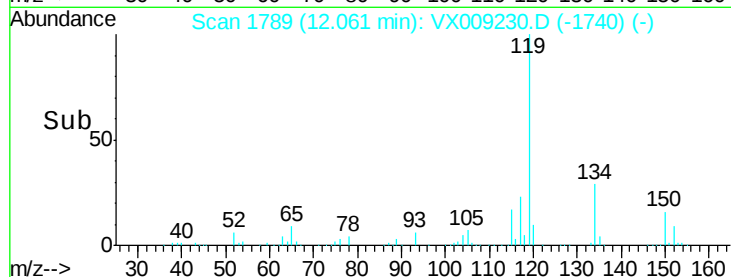
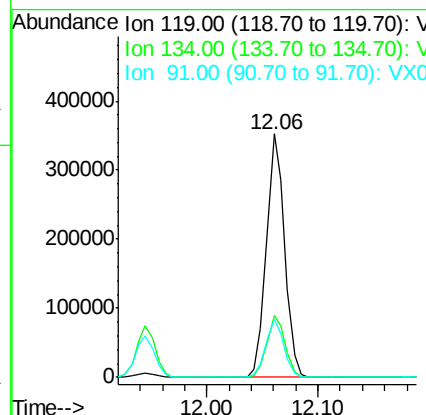
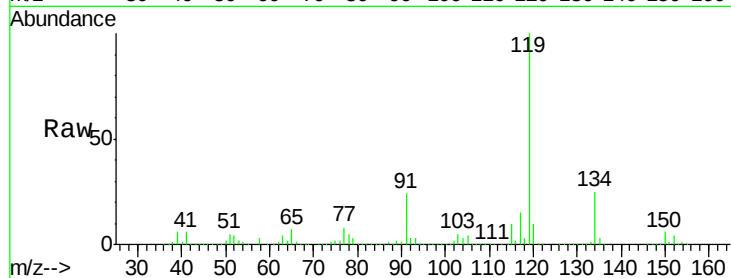
#86
p-Isopropyltoluene
Concen: 47.508 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	408027		
134	25.7	12.9	38.7	
91	23.8	11.8	35.4	

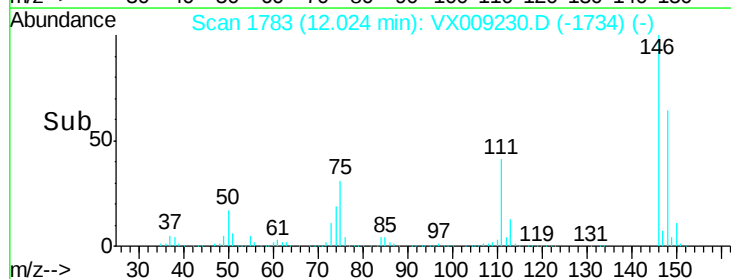
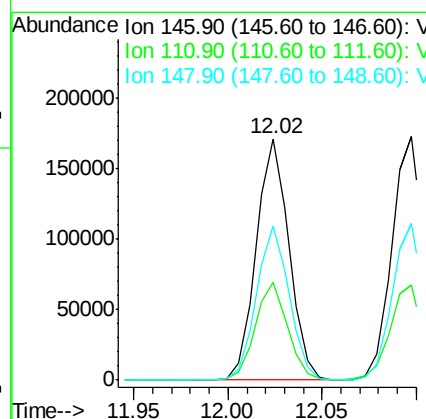
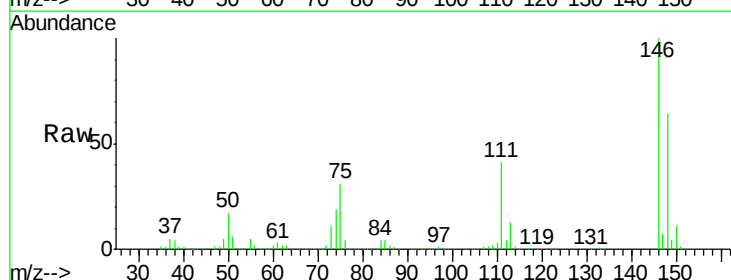
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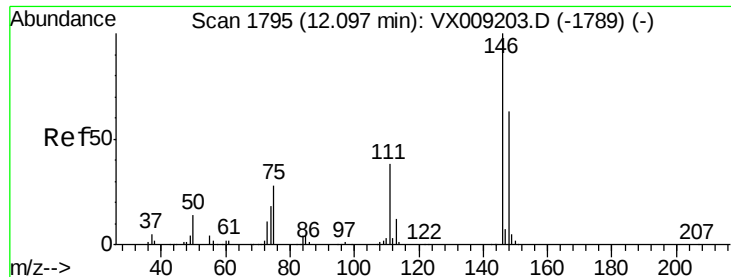
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#87
1,3-Dichlorobenzene
Concen: 47.209 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	205496		
111	40.1	20.0	59.9	
148	63.7	31.8	95.3	





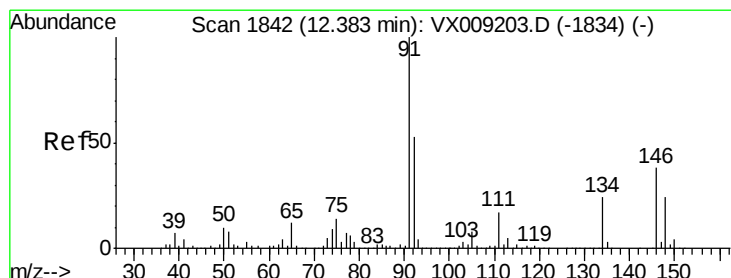
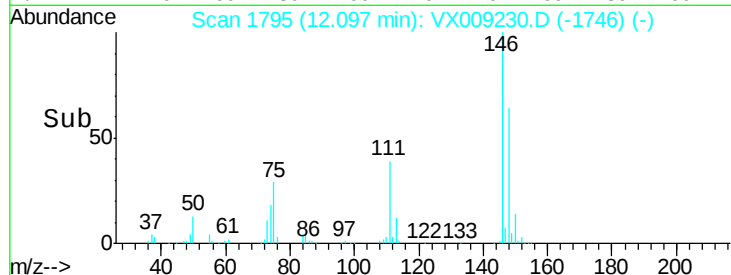
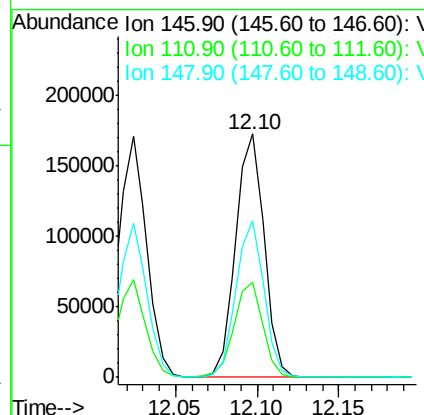
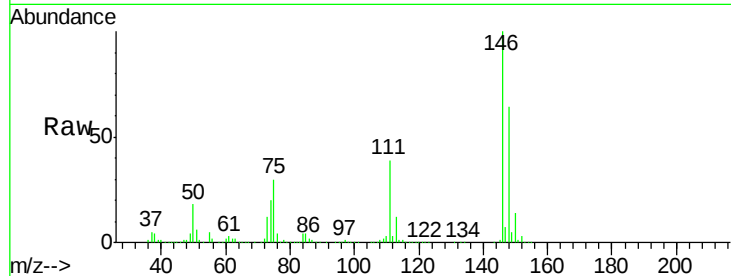
#88
 1,4-Dichlorobenzene
 Concen: 47.680 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.8
148	63.6	31.8	95.3

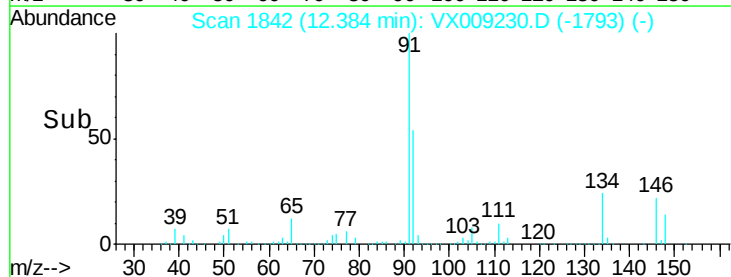
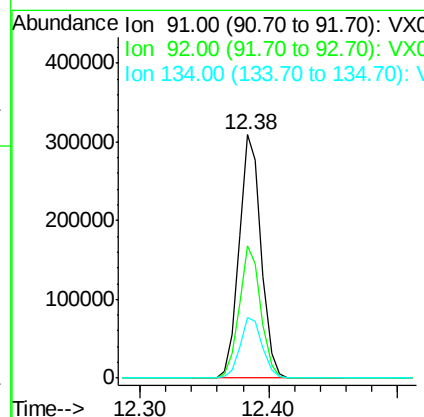
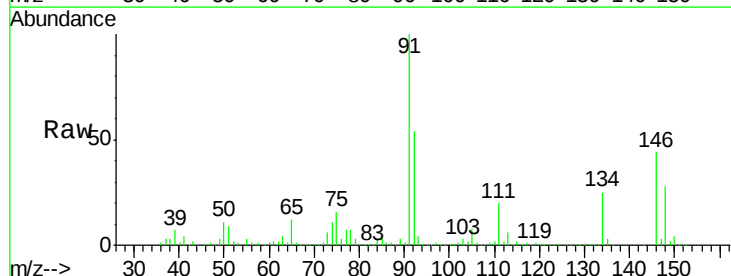
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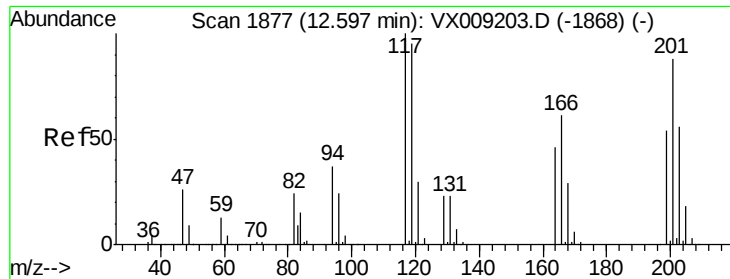
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 4/30/2019 11:04:05 AM



#89
 n-Butylbenzene
 Concen: 47.173 ug/l
 RT: 12.38 min Scan# 1842
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.5	79.5
134	25.1	12.4	37.2





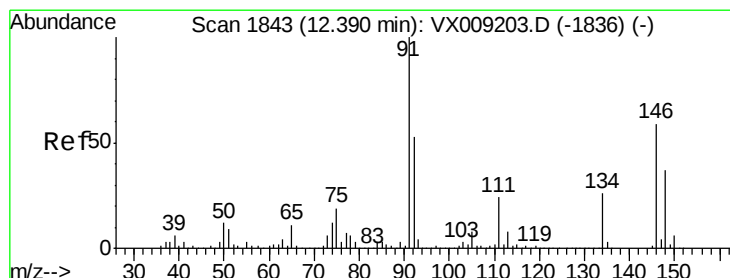
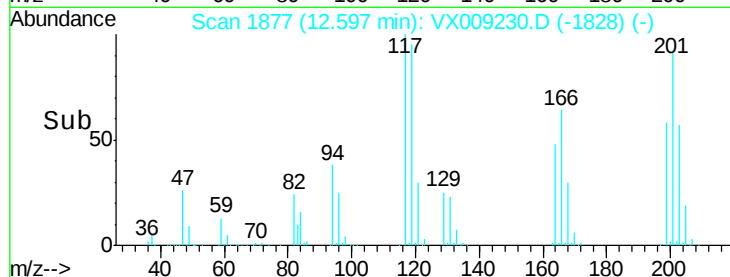
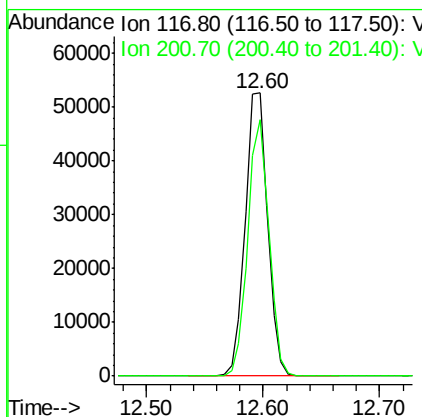
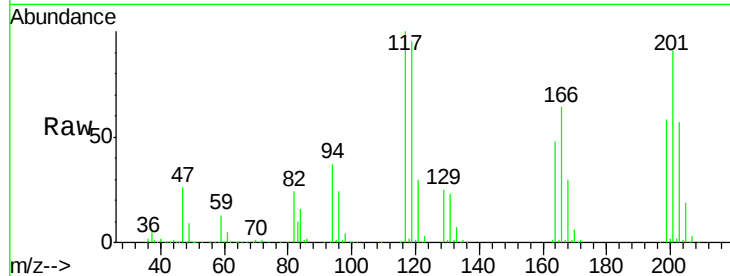
#90
Hexachloroethane
Concen: 48.687 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423MSD

Tot Ion:117 Resp: 71239
Ion Ratio Lower Upper
117 100
201 85.6 42.3 126.9

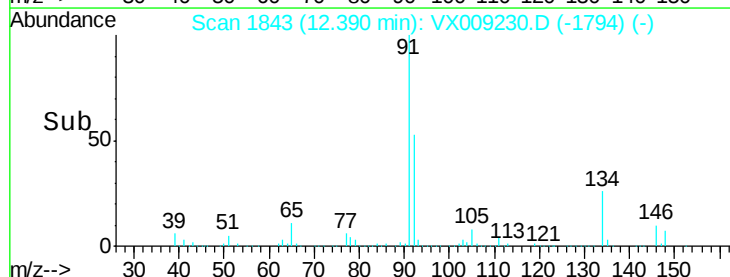
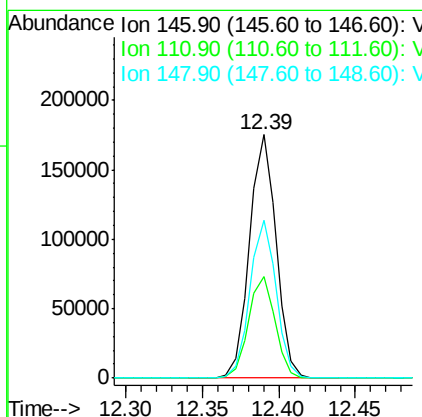
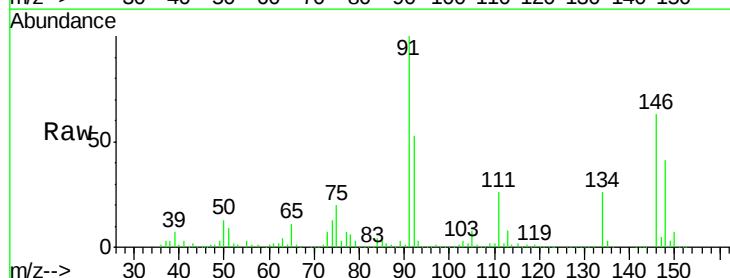
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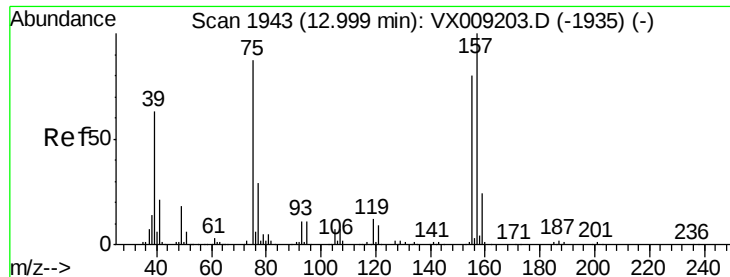
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#91
1,2-Dichlorobenzene
Concen: 47.754 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX009230.D
Acq: 30 Apr 2019 00:09

Tgt Ion:146 Resp: 211721
Ion Ratio Lower Upper
146 100
111 41.6 20.8 62.4
148 64.2 31.9 95.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 51.406 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423MSD

Tot Ion: 75 Resp: 42292

Ion Ratio Lower Upper

75 100

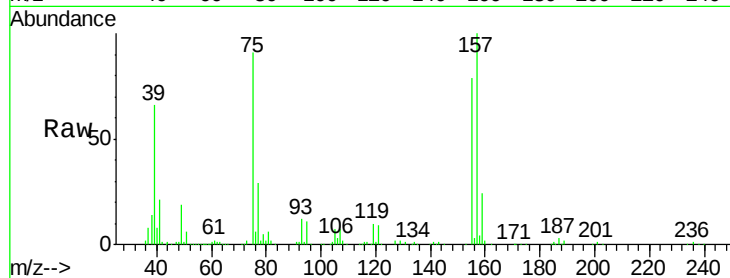
155 82.4 42.0 126.0

157 106.7 53.2 159.6

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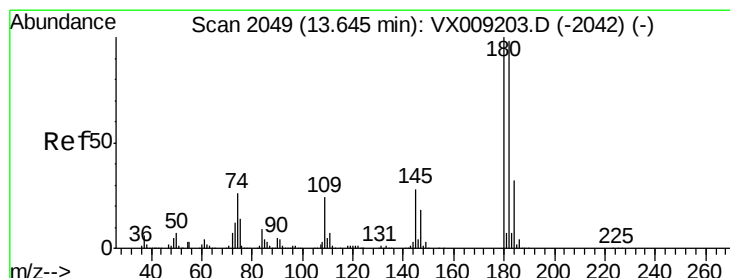
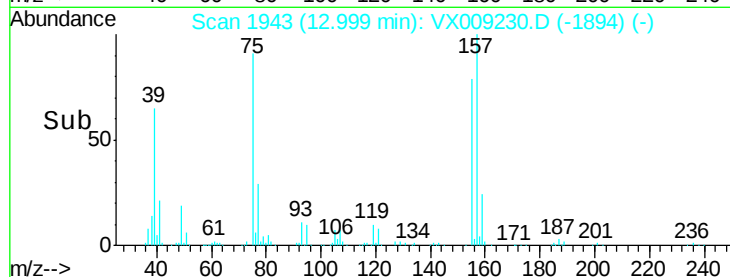


Abundance Ion 74.90 (74.60 to 75.60): VX009230.D (-1935) (-)

Ion 154.80 (154.50 to 155.50): VX009230.D (-1935) (-)

Ion 156.80 (156.50 to 157.50): VX009230.D (-1935) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 49.645 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

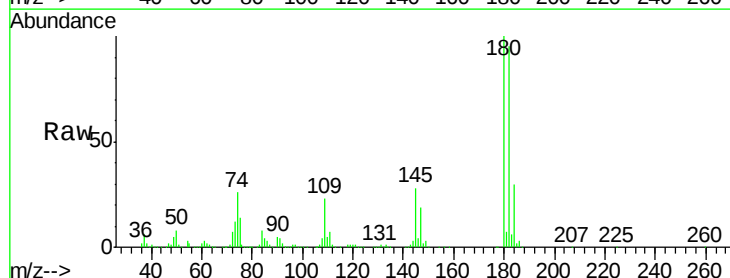
Tgt Ion: 180 Resp: 150518

Ion Ratio Lower Upper

180 100

182 94.7 48.4 145.2

145 29.6 14.6 43.8

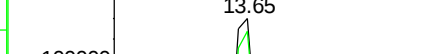
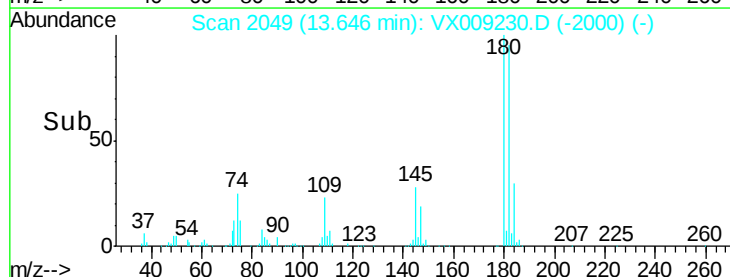


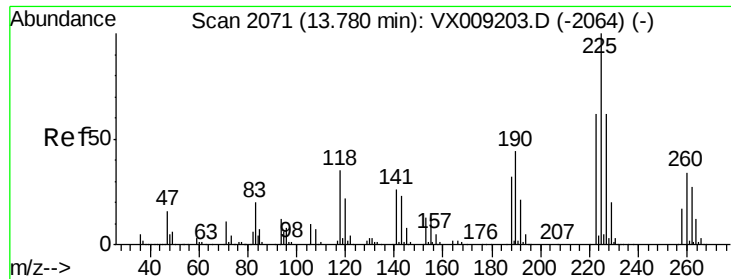
Abundance Ion 179.80 (179.50 to 180.50): VX009230.D (-2042) (-)

Ion 181.80 (181.50 to 182.50): VX009230.D (-2042) (-)

Ion 144.80 (144.50 to 145.50): VX009230.D (-2042) (-)

Time-->





#94

Hexachlorobutadiene

Concen: 46.182 ug/l

RT: 13.78 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Instrument :

MSVOA_X

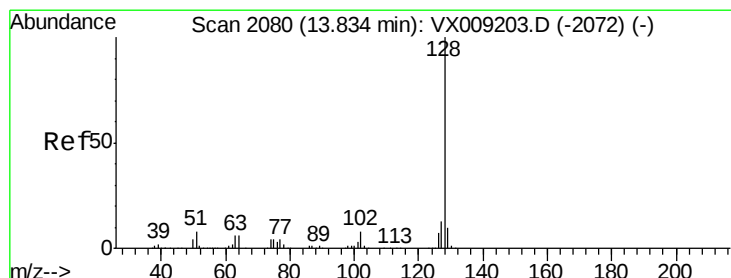
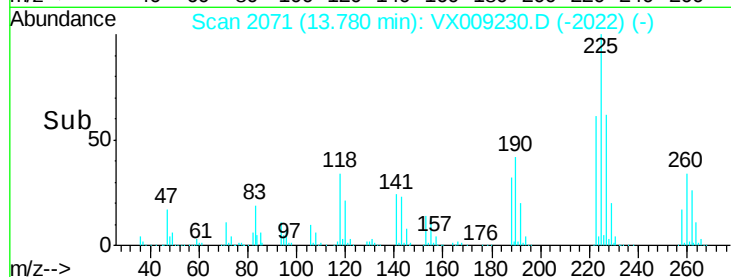
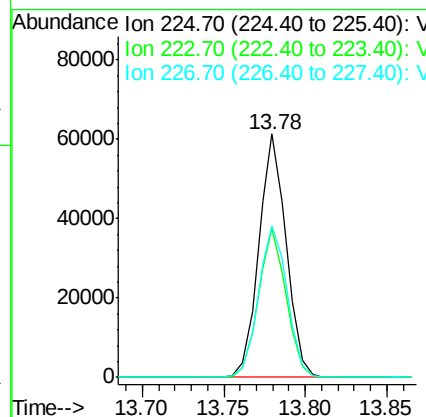
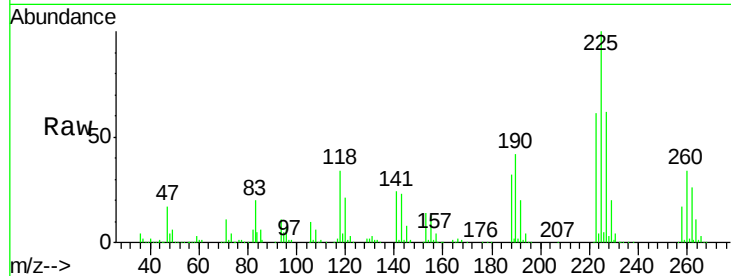
ClientSampleId :

WP021MW038-190423MSD

Tot Ion:	225	Resp:	71502
Ion Ratio		Lower	Upper
225	100		
223	61.7	31.3	93.8
227	64.9	31.8	95.3

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#95

Naphthalene

Concen: 51.236 ug/l

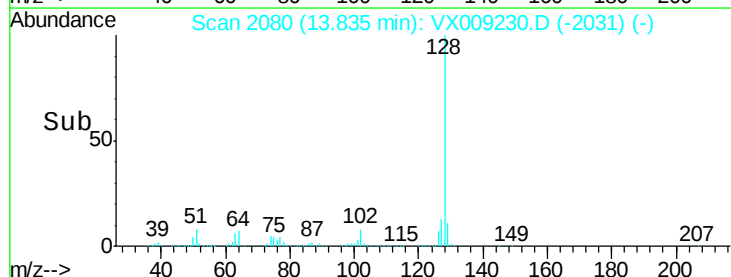
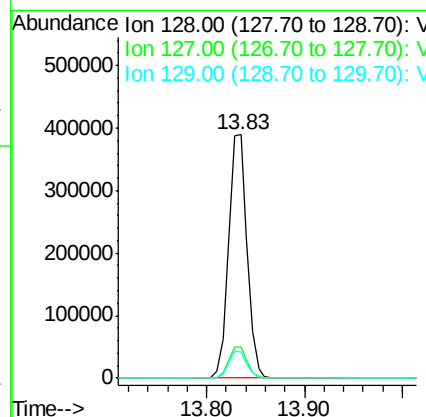
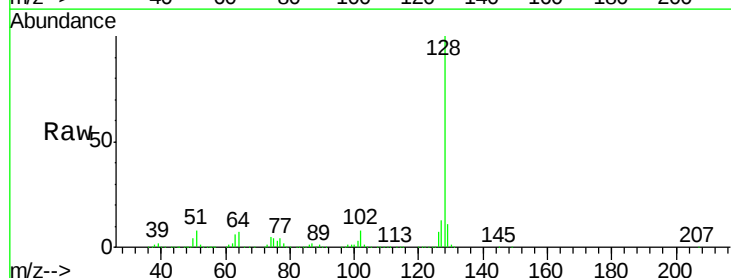
RT: 13.83 min Scan# 2080

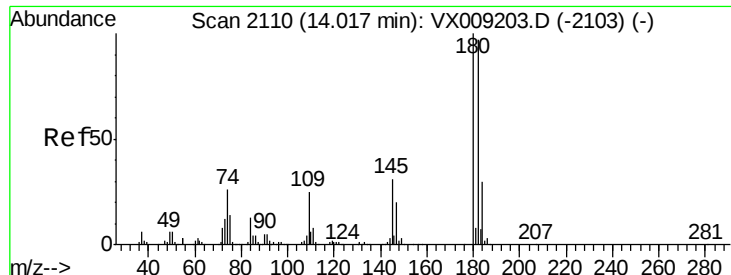
Delta R.T. 0.00 min

Lab File: VX009230.D

Acq: 30 Apr 2019 00:09

Tgt Ion:	128	Resp:	505391
Ion Ratio		Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 49.228 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX009230.D
 Acq: 30 Apr 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423MSD

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	97.4	47.8	143.4
145	31.8	15.4	46.4

Manual Integrations
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 4/30/2019 11:04:05 AM

