

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008112.D
 Acq On : 15 Mar 2019 18:09
 Operator : JC/SP
 Sample : VX0315WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 10:33:22 AM

Quant Time: Mar 16 01:20:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263095	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	367708	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	325891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166873	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	120067	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
35) Dibromofluoromethane	5.51	113	112098	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	8.71	98	413641	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	
62) 4-Bromofluorobenzene	11.13	95	145271	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	35696	16.950	ug/l	100
3) Chloromethane	1.33	50	33104	13.350	ug/l	99
4) Vinyl Chloride	1.41	62	34844	14.727	ug/l	98
5) Bromomethane	1.64	94	22096	18.232	ug/l	97
6) Chloroethane	1.73	64	21886	16.723	ug/l	96
7) Trichlorofluoromethane	1.93	101	47558	16.748	ug/l	100
8) Diethyl Ether	2.20	74	25469	18.043	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	39465	18.595	ug/l	97
10) Methyl Iodide	2.51	142	56050	18.905	ug/l	96
11) Tert butyl alcohol	3.07	59	51167	99.791	ug/l	100
12) 1,1-Dichloroethene	2.38	96	37315	18.602	ug/l	88
13) Acrolein	2.30	56	35934	76.083	ug/l	98
14) Allyl chloride	2.73	41	63053	17.257	ug/l	95
15) Acrylonitrile	3.15	53	114488	91.569	ug/l	98
16) Acetone	2.45	43	112108	89.476	ug/l	97
17) Carbon Disulfide	2.57	76	103297	17.935	ug/l	97
18) Methyl Acetate	2.78	43	52145	19.256	ug/l	92
19) Methyl tert-butyl Ether	3.21	73	123903	18.269	ug/l	99
20) Methylene Chloride	2.86	84	40536	18.115	ug/l	89
21) trans-1,2-Dichloroethene	3.17	96	39588	18.317	ug/l	91
22) Diisopropyl ether	3.87	45	127117	17.507	ug/l	97
23) Vinyl Acetate	3.82	43	550945	89.218	ug/l	97
24) 1,1-Dichloroethane	3.70	63	73262	18.406	ug/l	98
25) 2-Butanone	4.70	43	174954	90.971	ug/l	94
26) 2,2-Dichloropropane	4.59	77	53234	17.506	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	47321	18.419	ug/l	94
28) Bromochloromethane	5.02	49	33257	17.691	ug/l	84
29) Tetrahydrofuran	5.16	42	108316	90.222	ug/l	93
30) Chloroform	5.21	83	73032	18.114	ug/l	99
31) Cyclohexane	5.57	56	65429	17.242	ug/l	95
32) 1,1,1-Trichloroethane	5.50	97	61740	18.180	ug/l	98
36) 1,1-Dichloropropene	5.80	75	54096	17.883	ug/l	97
37) Ethyl Acetate	4.86	43	60293	18.545	ug/l	97
38) Carbon Tetrachloride	5.79	117	54592	18.749	ug/l	97

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 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
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Manual Integrations
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MMDadoda
 3/16/2019 10:33:22 AM

Quant Time: Mar 16 01:20:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	67590	17.480	ug/l	98
40) Benzene	6.14	78	168824	18.217	ug/l	98
41) Methacrylonitrile	5.06	41	33473	17.683	ug/l	94
42) 1,2-Dichloroethane	6.20	62	54576	18.409	ug/l	99
43) Isopropyl Acetate	6.46	43	91994	17.570	ug/l	97
44) Trichloroethene	7.21	130	48670	18.198	ug/l	98
45) 1,2-Dichloropropane	7.52	63	43458	17.775	ug/l	99
46) Dibromomethane	7.66	93	28809	18.800	ug/l	96
47) Bromodichloromethane	7.90	83	52383	17.975	ug/l	98
48) Methyl methacrylate	7.77	41	48054	17.573	ug/l	94
49) 1,4-Dioxane	7.75	88	23872	404.753	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	307776	89.190	ug/l	96
52) Toluene	8.79	92	104767	17.785	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	55570	17.394	ug/l	97
54) cis-1,3-Dichloropropene	8.44	75	62892	17.713	ug/l	95
55) 1,1,2-Trichloroethane	9.21	97	44139	18.402	ug/l	98
56) Ethyl methacrylate	9.18	69	63886	18.031	ug/l	93
57) 1,3-Dichloropropane	9.37	76	71655	18.052	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	183202	87.893	ug/l	96
59) 2-Hexanone	9.49	43	241785	89.591	ug/l	96
60) Dibromochloromethane	9.59	129	45126	18.254	ug/l	99
61) 1,2-Dibromoethane	9.67	107	46553	18.523	ug/l	100
64) Tetrachloroethene	9.34	164	48977	18.548	ug/l	98
65) Chlorobenzene	10.14	112	119000	18.401	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	43108	18.782	ug/l	100
67) Ethyl Benzene	10.25	91	192565	17.989	ug/l	100
68) m/p-Xylenes	10.36	106	151918	37.089	ug/l	98
69) o-Xylene	10.69	106	74114	18.561	ug/l	98
70) Styrene	10.71	104	120777	18.464	ug/l	98
71) Bromoform	10.85	173	36192	19.055	ug/l #	99
73) Isopropylbenzene	11.02	105	200295	18.740	ug/l	100
74) N-amyl acetate	10.90	43	75776	16.807	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.27	83	65144	18.602	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	62395m	21.530	ug/l	
77) Bromobenzene	11.26	156	54668	18.739	ug/l	94
78) n-propylbenzene	11.36	91	213374	18.197	ug/l	99
79) 2-Chlorotoluene	11.42	91	130413	18.211	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	165317	18.771	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	18196	17.867	ug/l	98
82) 4-Chlorotoluene	11.51	91	148636	18.123	ug/l	97
83) tert-Butylbenzene	11.77	119	162404	18.401	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	169549	18.663	ug/l	100
85) sec-Butylbenzene	11.94	105	194739	18.519	ug/l	100
86) p-Isopropyltoluene	12.06	119	176533	18.563	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	96532	18.592	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	96862	18.372	ug/l	99
89) n-Butylbenzene	12.38	91	139128	17.484	ug/l	98
90) Hexachloroethane	12.60	117	26669	17.522	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	97673	18.961	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	13486	19.047	ug/l	88

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VX0315WBS02

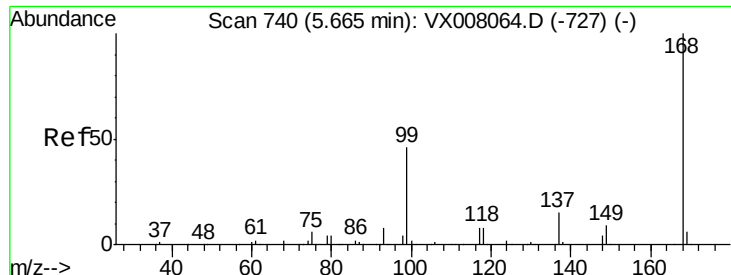
Manual Integrations
APPROVED

MMDadoda
3/16/2019 10:33:22 AM

Quant Time: Mar 16 01:20:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 15 03:56:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	67525	18.505	ug/l	99
94) Hexachlorobutadiene	13.78	225	37526	18.929	ug/l	99
95) Naphthalene	13.83	128	199994	19.492	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	68871	19.173	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion:168 Resp: 263095

Ion Ratio Lower Upper

168 100

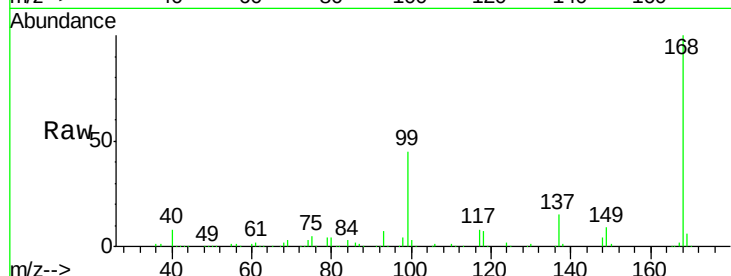
99 44.8 37.6 56.4

Manual Integrations

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3/16/2019 10:33:22 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

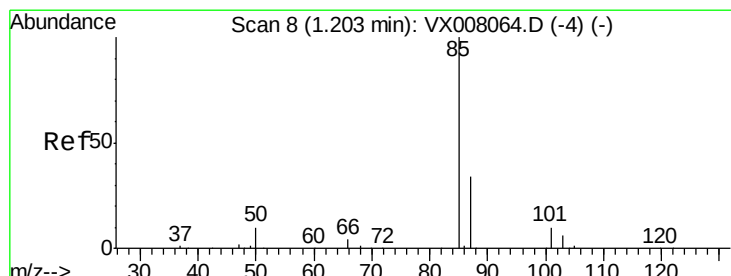
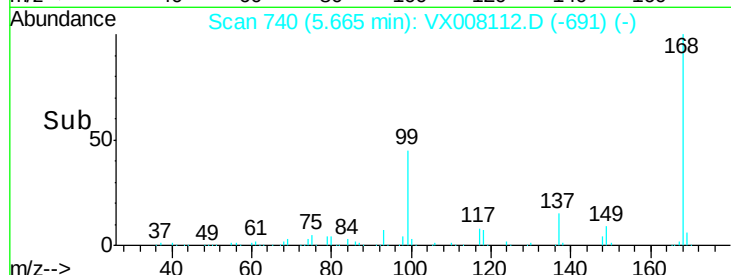
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 16.950 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.00 min

Lab File: VX008112.D

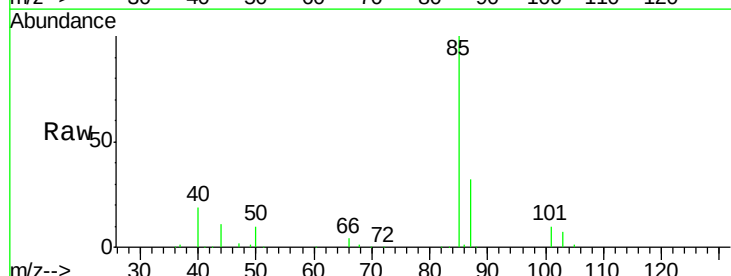
Acq: 15 Mar 2019 18:09

Tgt Ion: 85 Resp: 35696

Ion Ratio Lower Upper

85 100

87 32.5 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

40000

30000

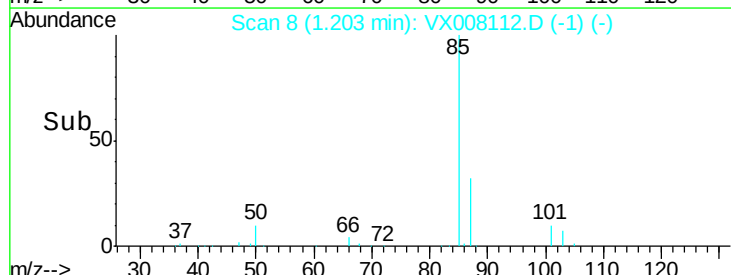
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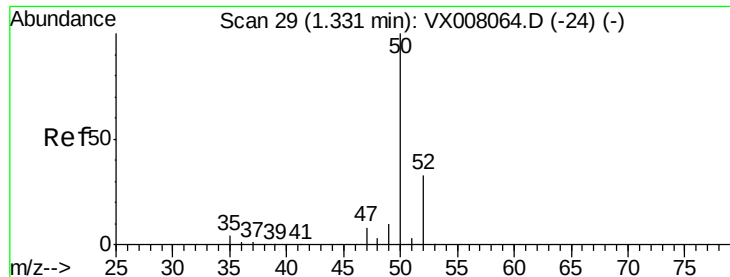
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Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 13.350 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 50 Resp: 33104

Ion Ratio Lower Upper

50 100

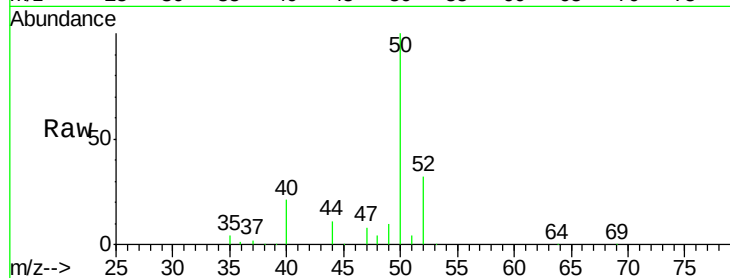
52 32.3 26.5 39.7

Manual Integrations

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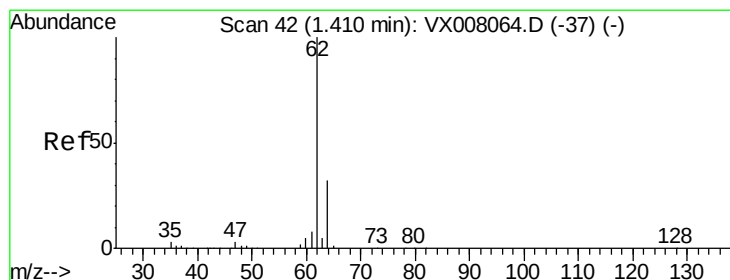
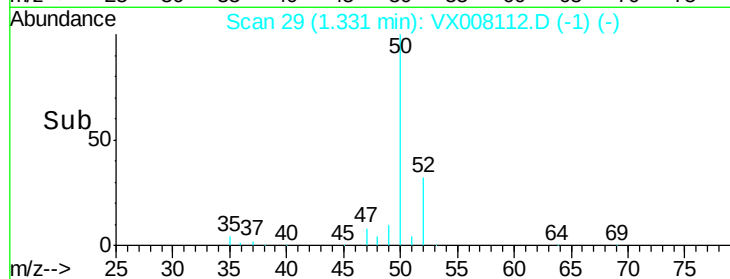
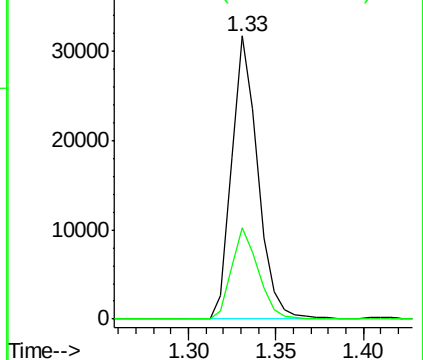
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 14.727 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX008112.D

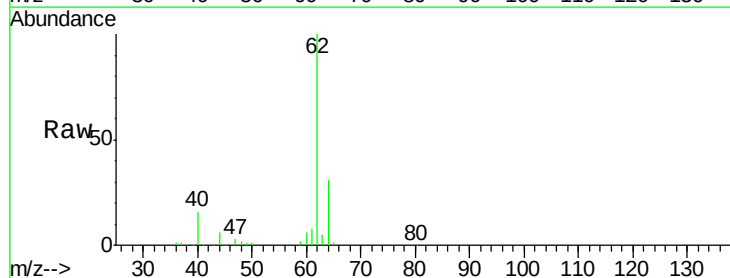
Acq: 15 Mar 2019 18:09

Tgt Ion: 62 Resp: 34844

Ion Ratio Lower Upper

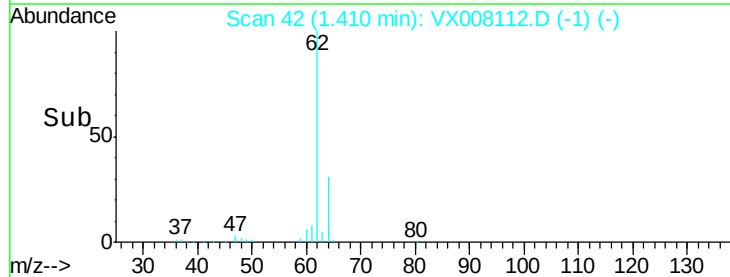
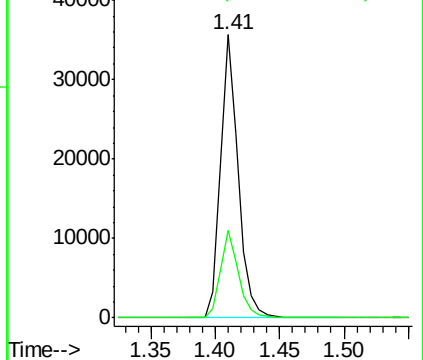
62 100

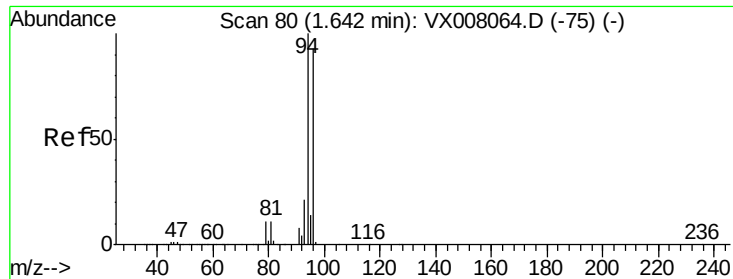
64 30.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 18.232 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 94 Resp: 22096

Ion Ratio Lower Upper

94 100

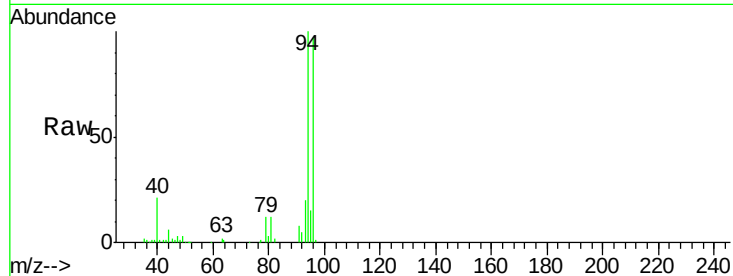
96 97.1 75.5 113.3

Manual Integrations

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3/16/2019 10:33:22 AM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

25000

20000

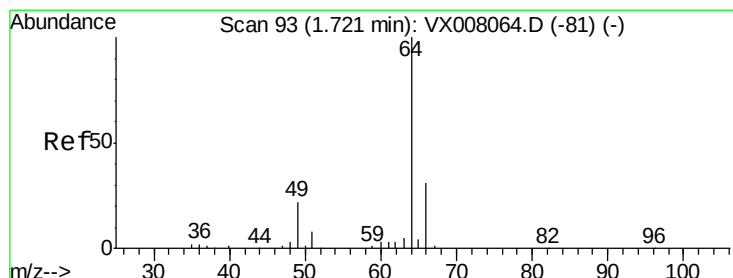
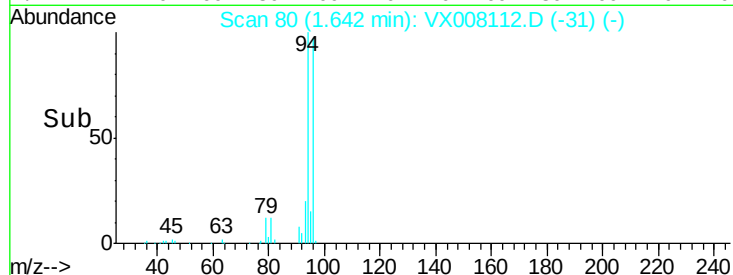
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10000

5000

0

Time-->



#6

Chloroethane

Concen: 16.723 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008112.D

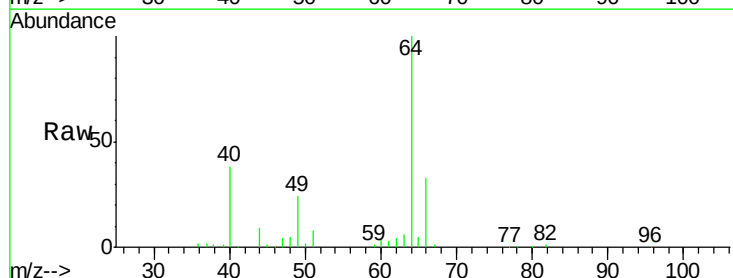
Acq: 15 Mar 2019 18:09

Tgt Ion: 64 Resp: 21886

Ion Ratio Lower Upper

64 100

66 33.6 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

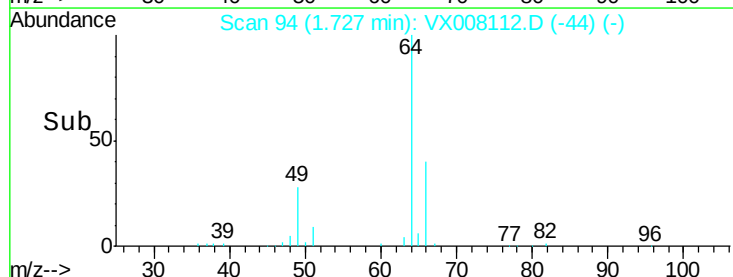
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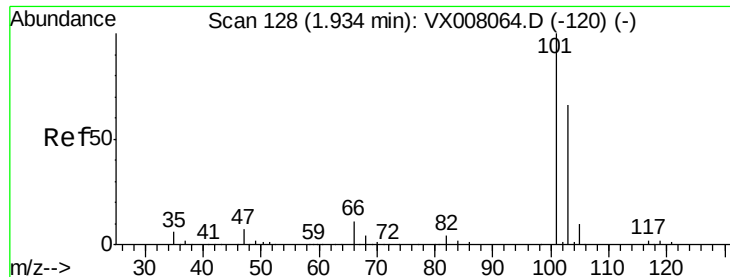
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Time-->





#7

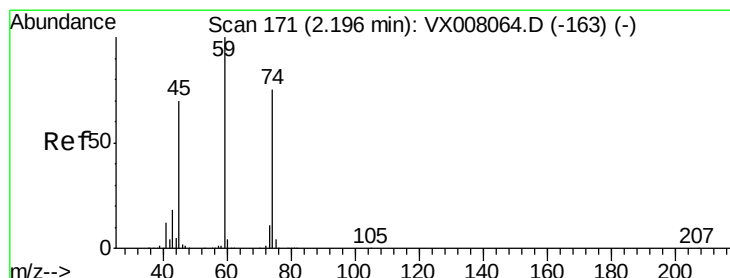
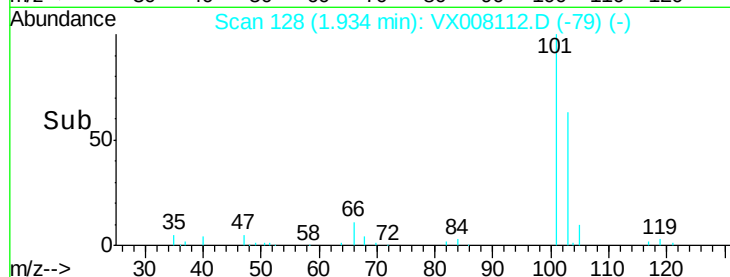
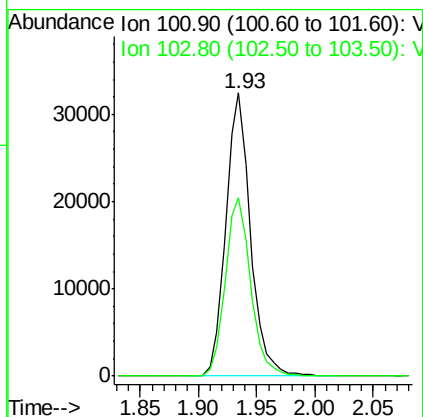
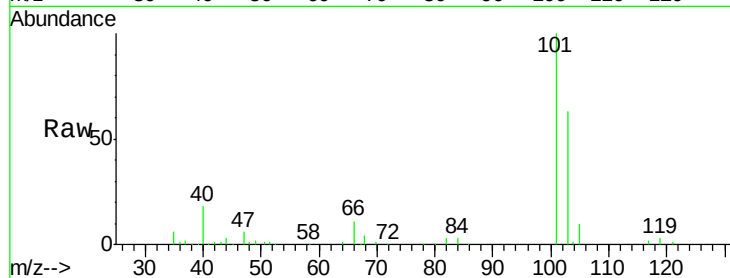
Trichlorofluoromethane
Concen: 16.748 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.0	50.4	75.6

Manual Integrations
APPROVED

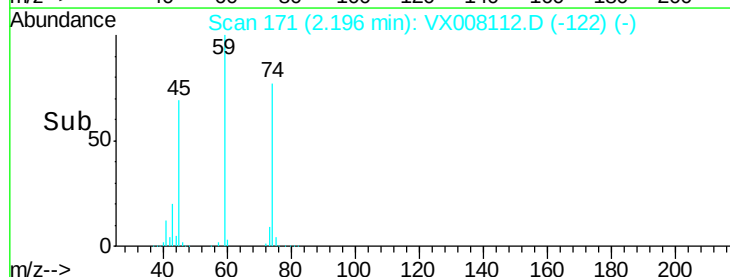
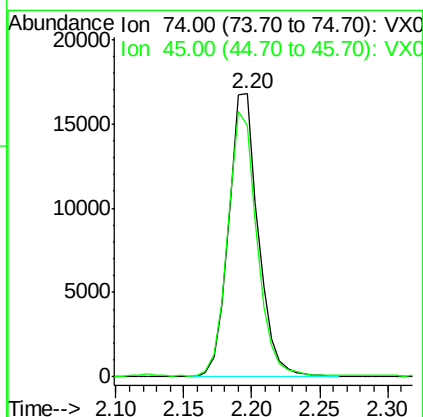
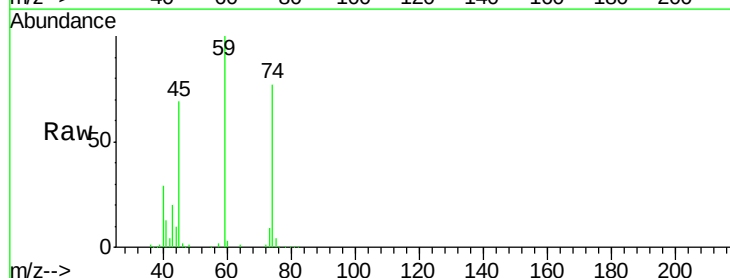
MMDadoda
3/16/2019 10:33:22 AM

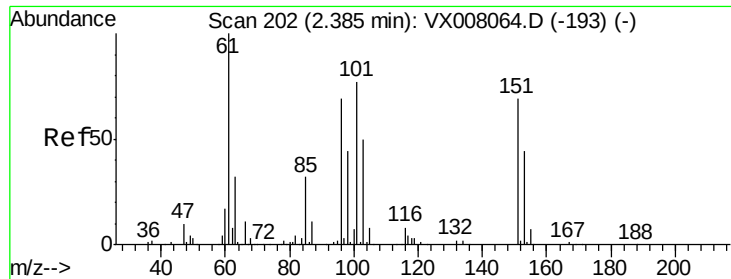


#8

Diethyl Ether
Concen: 18.043 ug/l
RT: 2.20 min Scan# 171
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.7	52.1	156.4





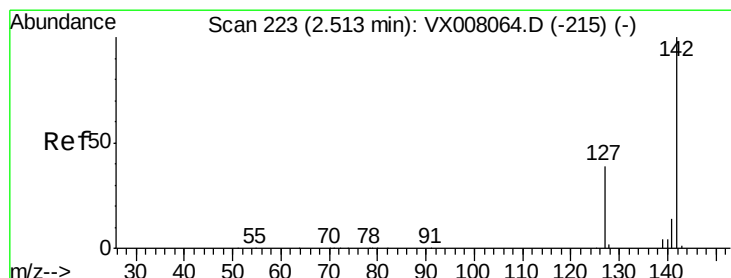
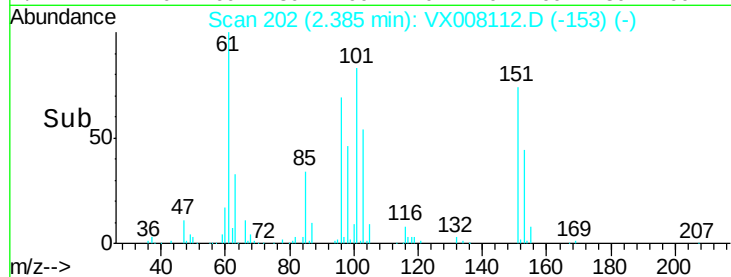
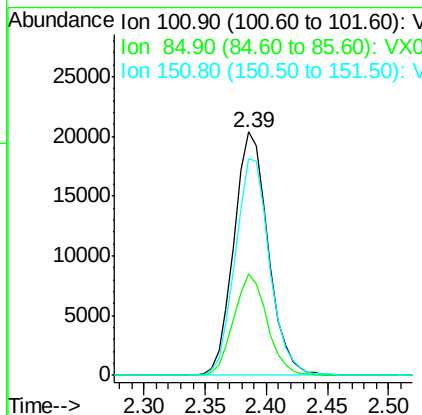
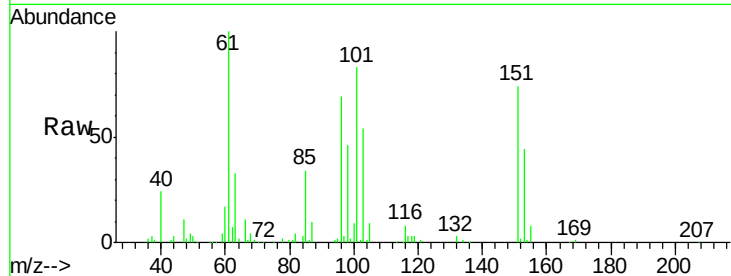
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.595 ug/l
RT: 2.39 min Scan# 202
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	39465		
85	40.4		33.8	50.6
151	89.7		69.1	103.7

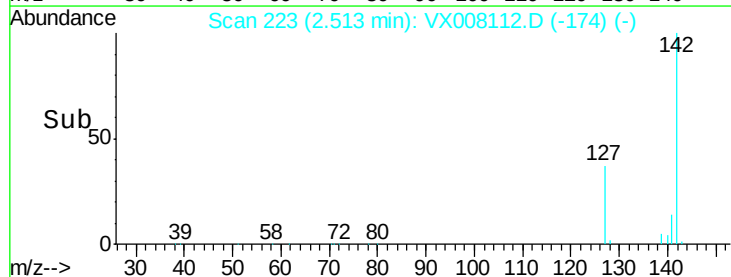
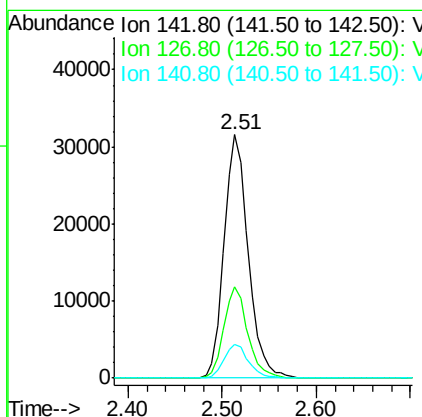
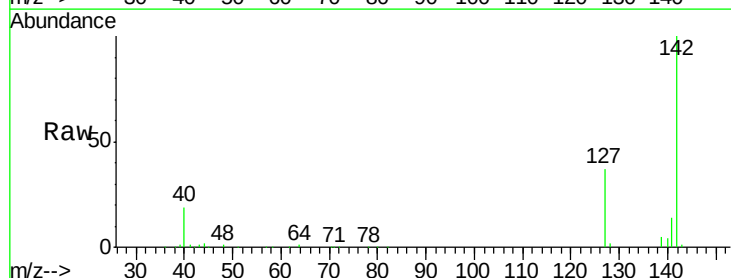
Manual Integrations
APPROVED

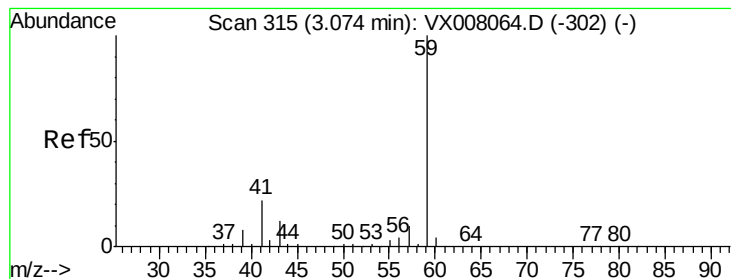
MMDadoda
3/16/2019 10:33:22 AM



#10
Methyl Iodide
Concen: 18.905 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	56050		
127	37.1		32.1	48.1
141	13.9		11.4	17.2





#11

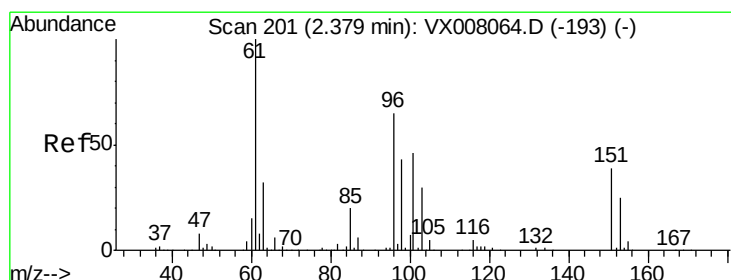
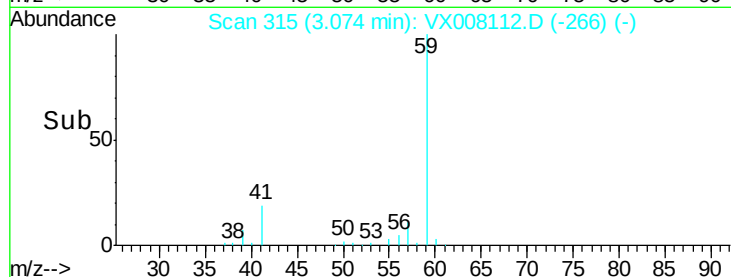
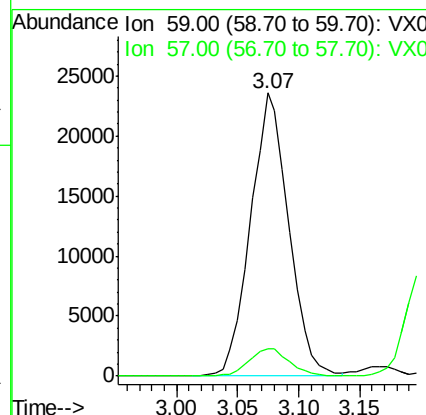
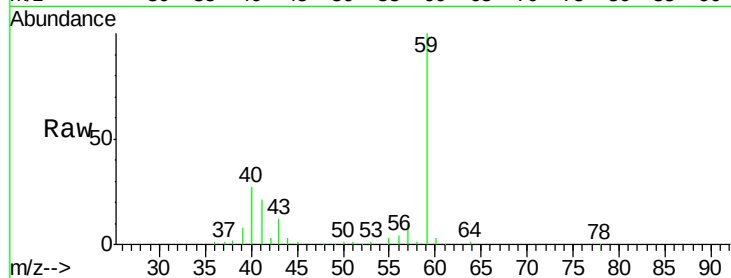
Tert butyl alcohol
 Concen: 99.791 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	59	57	Ratio	100	10.4	Resp	Lower	Upper
59	100							
57		10.4				8.2	12.2	

Manual Integrations
 APPROVED

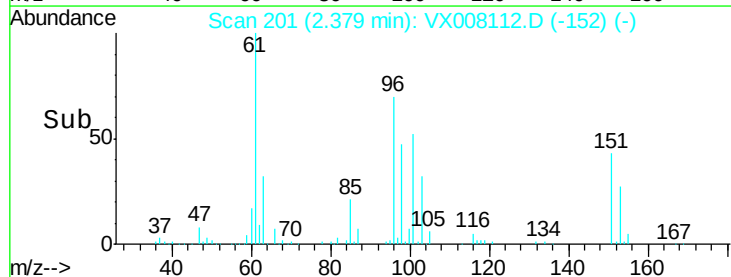
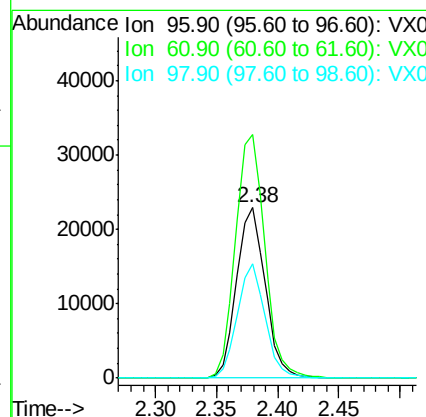
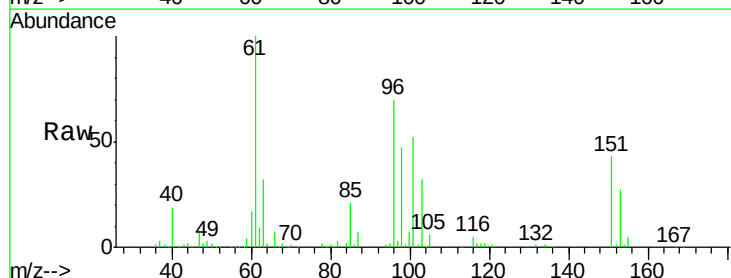
MMDadoda
 3/16/2019 10:33:22 AM

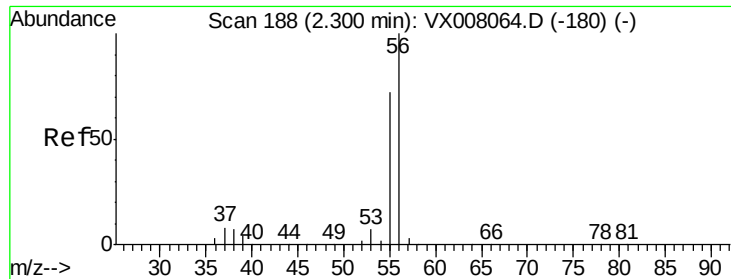


#12

1,1-Dichloroethene
 Concen: 18.602 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	96	61	98	Ratio	100	143.0	67.4	Resp	Lower	Upper
96	100									
61		143.0				129.8	194.6			
98		67.4				51.0	76.6			





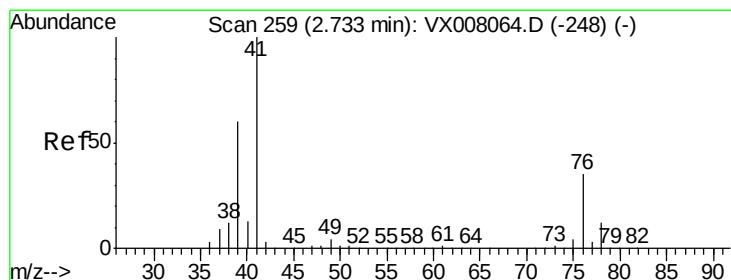
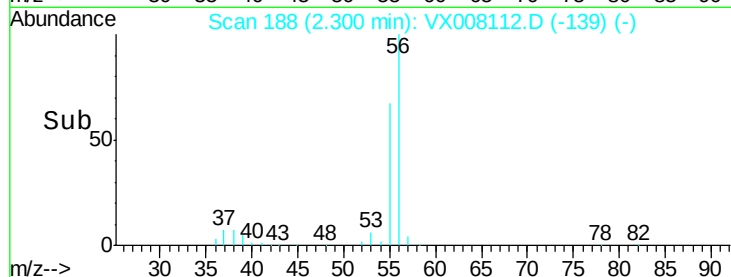
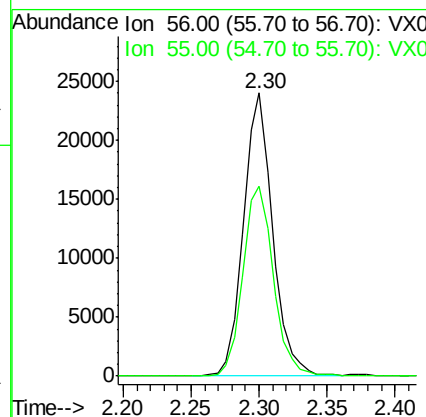
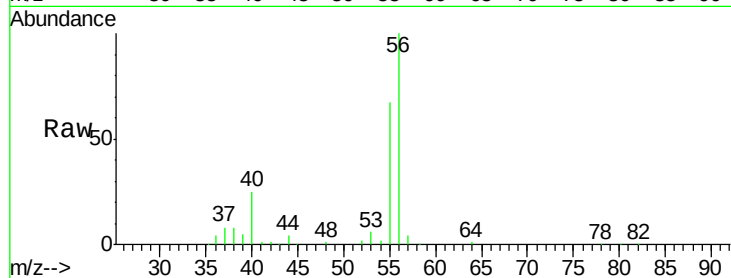
#13
Acrolein
Concen: 76.083 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampled :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.8	86.6

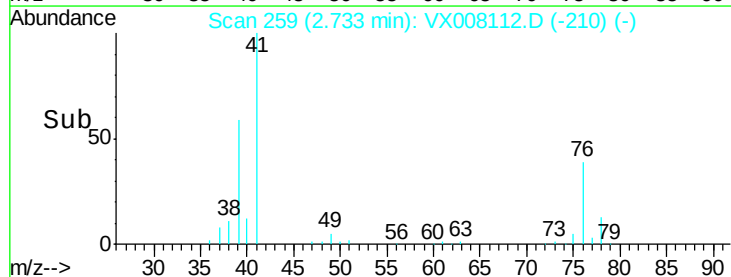
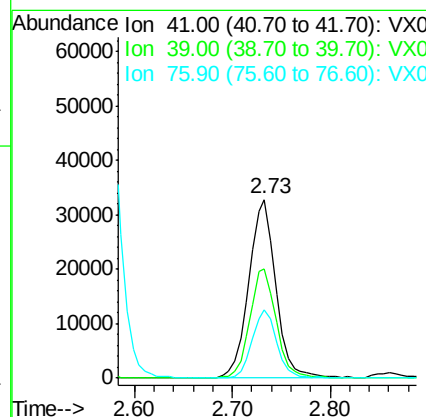
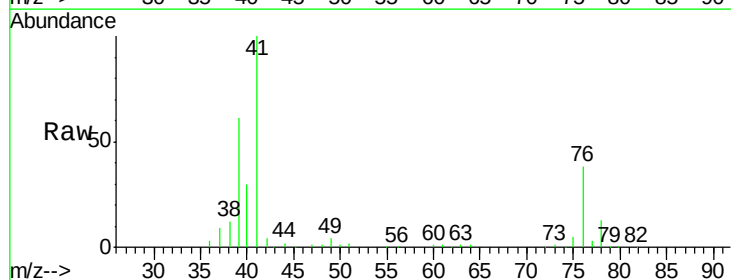
Manual Integrations
APPROVED

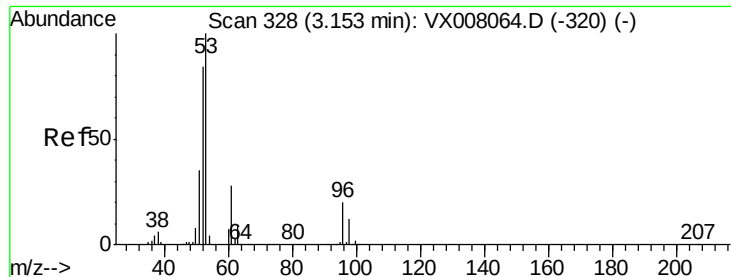
MMDadoda
3/16/2019 10:33:22 AM



#14
Allyl chloride
Concen: 17.257 ug/l
RT: 2.73 min Scan# 259
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
41	100		
39	59.8	46.1	69.1
76	35.0	24.0	36.0





#15

Acrylonitrile

Concen: 91.569 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

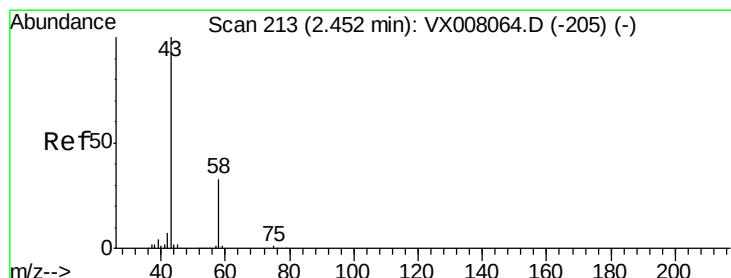
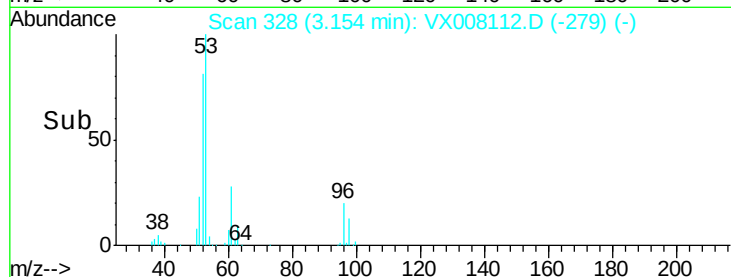
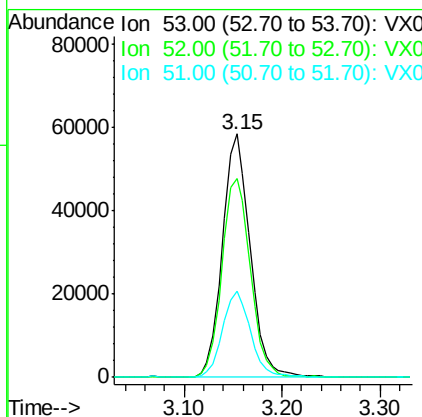
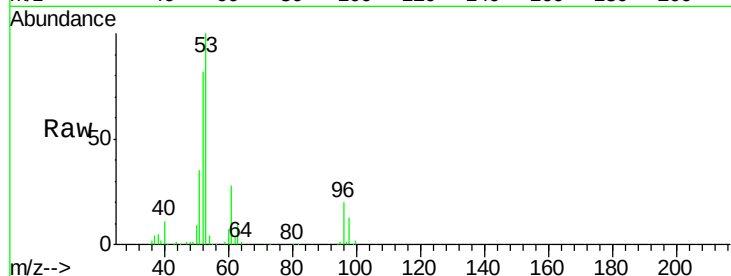
ClientSampleId :

VX0315WBS02

Tot Ion:	53	Resp:	114488
Ion Ratio		Lower	Upper
53	100		
52	84.4	66.0	99.0
51	36.0	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
3/16/2019 10:33:22 AM



#16

Acetone

Concen: 89.476 ug/l

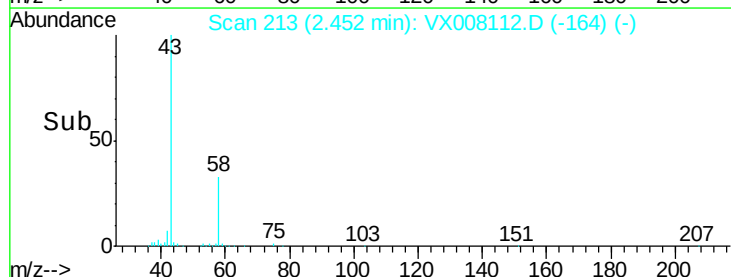
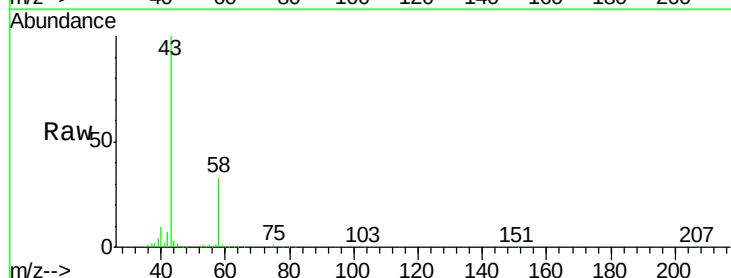
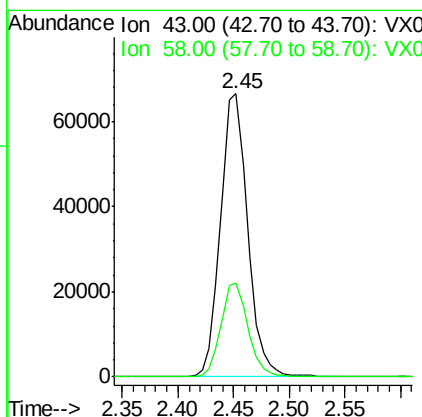
RT: 2.45 min Scan# 213

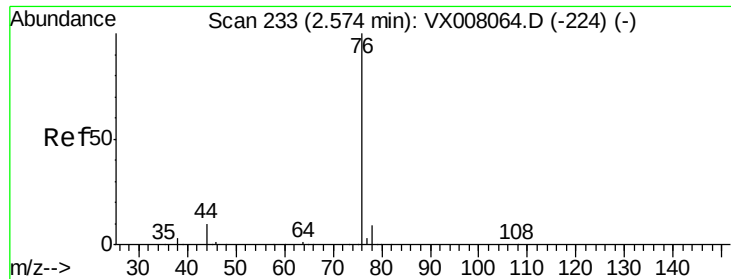
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	43	Resp:	112108
Ion Ratio		Lower	Upper
43	100		
58	33.4	25.5	38.3





#17

Carbon Disulfide

Concen: 17.935 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tot Ion: 76 Resp: 103297

Ion Ratio Lower Upper

76 100

78 10.2 7.2 10.8

Instrument :

MSVOA_X

ClientSampleId :

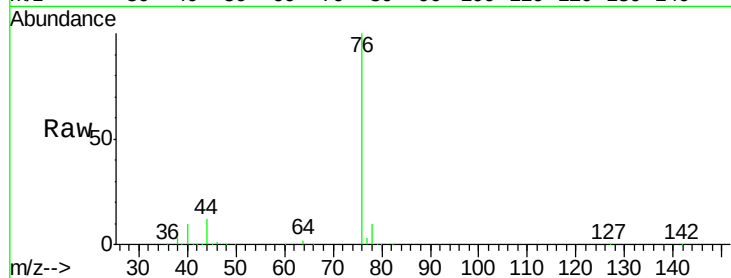
VX0315WBS02

Manual Integrations

APPROVED

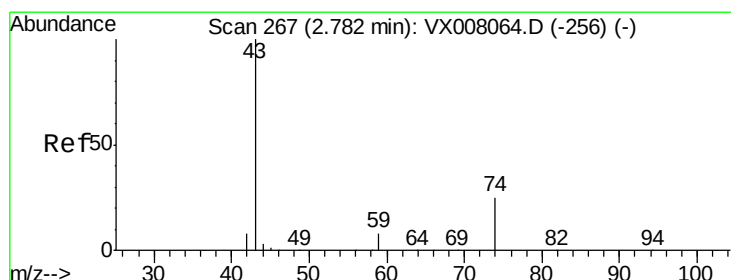
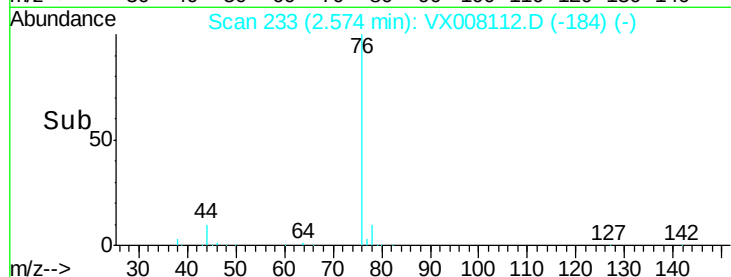
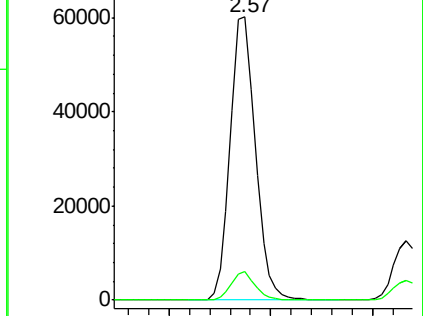
MMDadoda

3/16/2019 10:33:22 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 19.256 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX008112.D

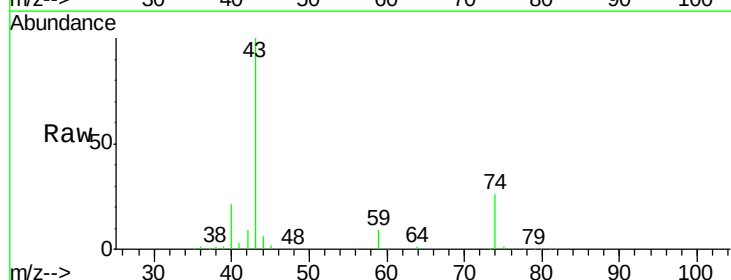
Acq: 15 Mar 2019 18:09

Tgt Ion: 43 Resp: 52145

Ion Ratio Lower Upper

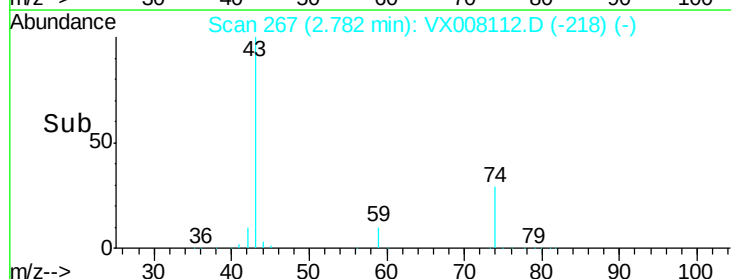
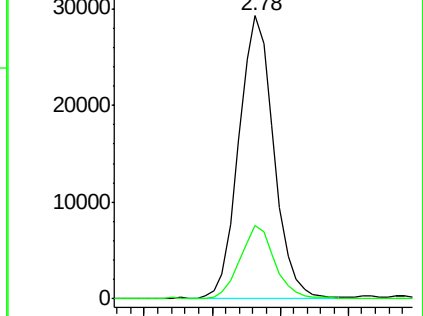
43 100

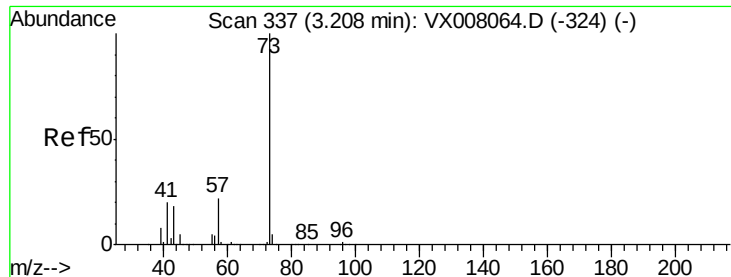
74 26.0 17.8 26.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





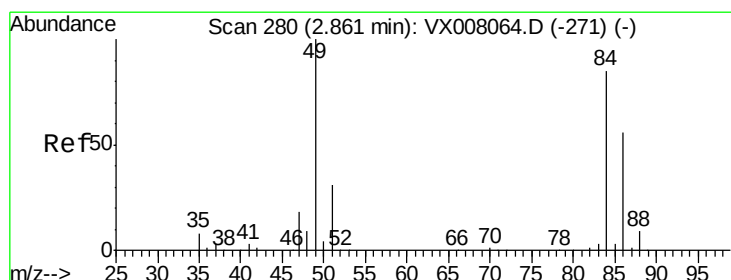
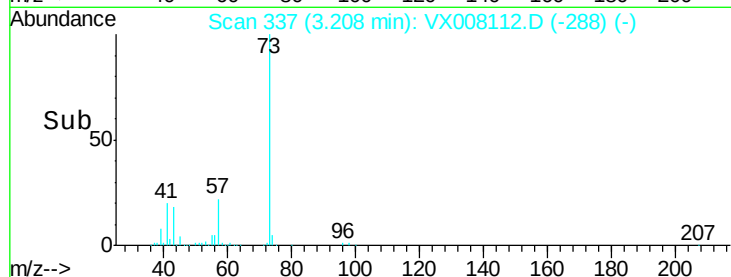
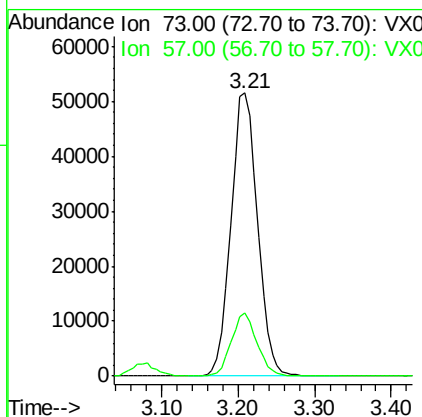
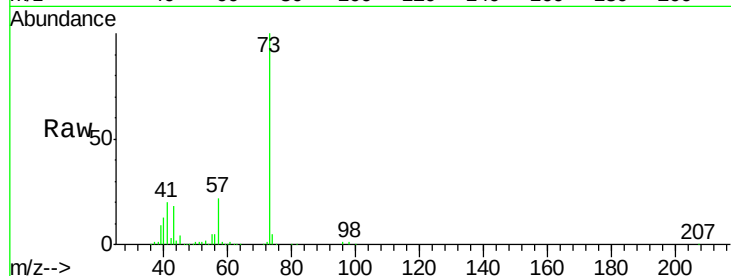
#19
Methyl tert-butyl Ether
Concen: 18.269 ug/l
RT: 3.21 min Scan# 337
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion: 73 Resp: 123903
Ion Ratio Lower Upper
73 100
57 22.2 18.2 27.4

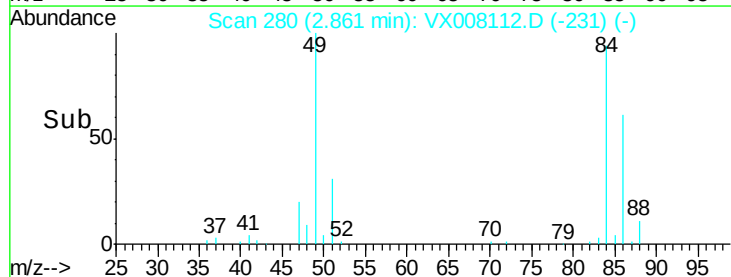
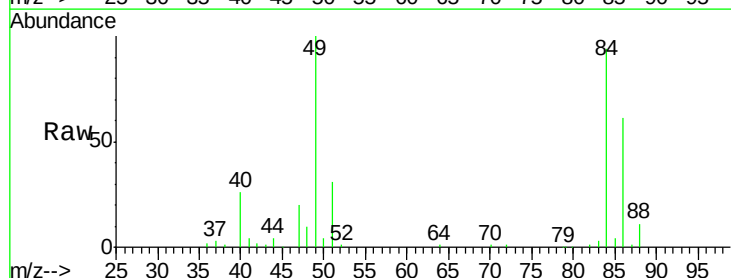
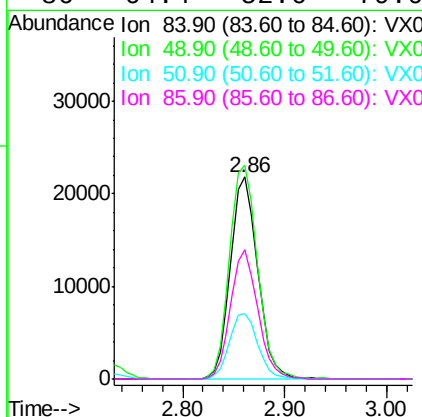
Manual Integrations
APPROVED

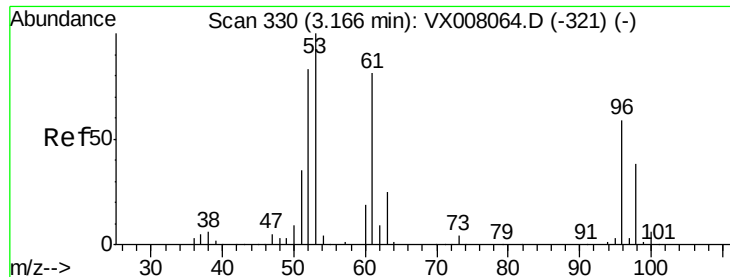
MMDadoda
3/16/2019 10:33:22 AM



#20
Methylene Chloride
Concen: 18.115 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion: 84 Resp: 40536
Ion Ratio Lower Upper
84 100
49 105.9 99.3 148.9
51 32.6 31.3 46.9
86 64.4 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 18.317 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 96 Resp: 39588

Ion Ratio Lower Upper

96 100

61 129.2 114.4 171.6

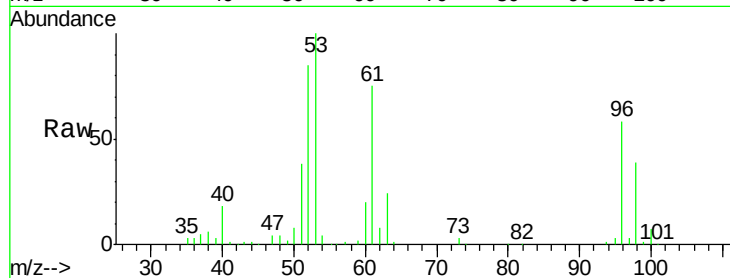
98 66.9 51.1 76.7

Manual Integrations

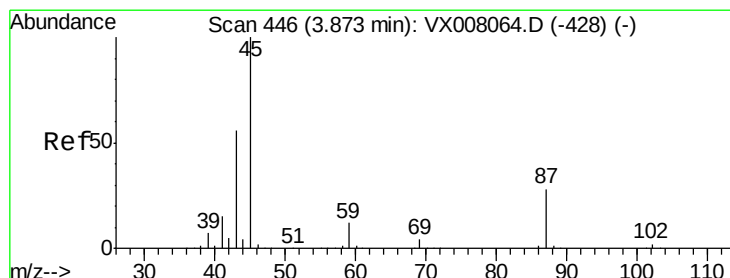
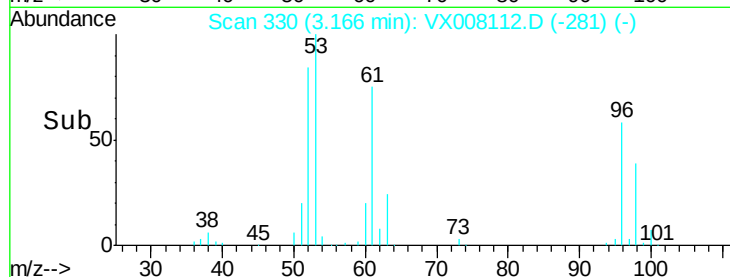
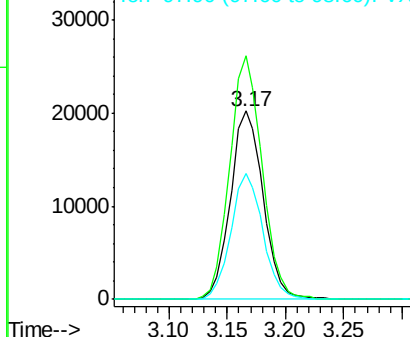
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Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 17.507 ug/l

RT: 3.87 min Scan# 446

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion: 45 Resp: 127117

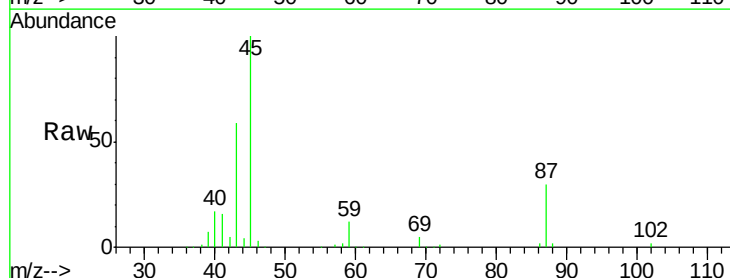
Ion Ratio Lower Upper

45 100

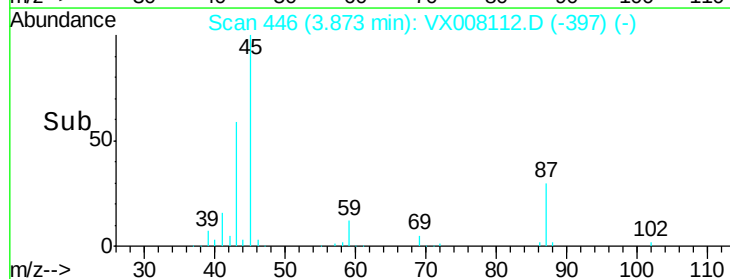
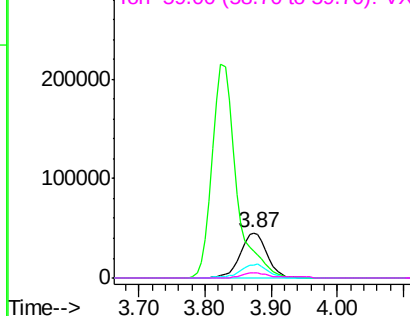
43 58.4 45.3 67.9

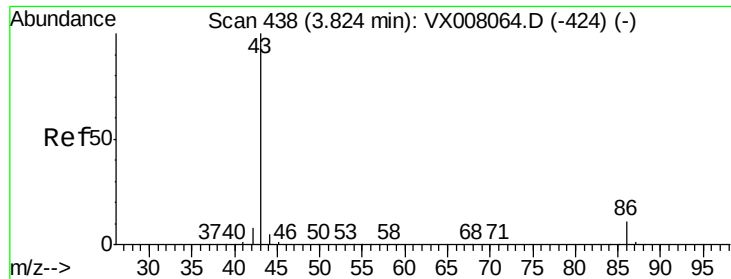
87 29.7 21.4 32.0

59 11.7 9.5 14.3



Abundance Ion 45.00 (44.70 to 45.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 87.00 (86.70 to 87.70): VX0
Ion 59.00 (58.70 to 59.70): VX0





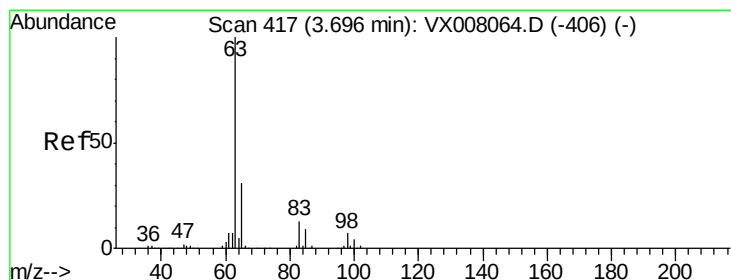
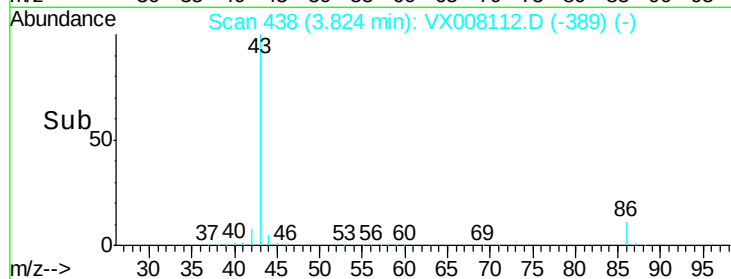
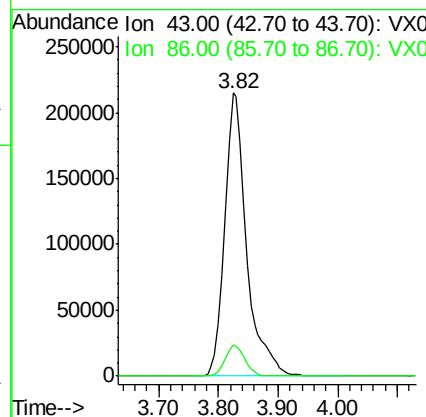
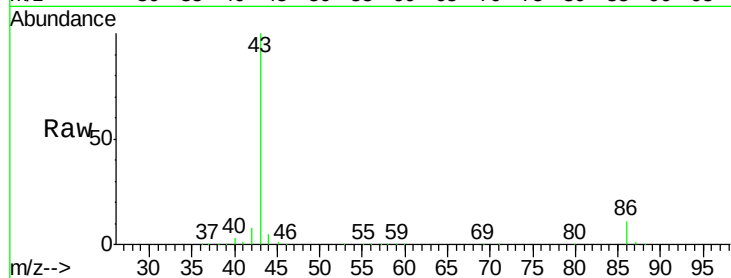
#23
 Vinyl Acetate
 Concen: 89.218 ug/l
 RT: 3.82 min Scan# 438
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9

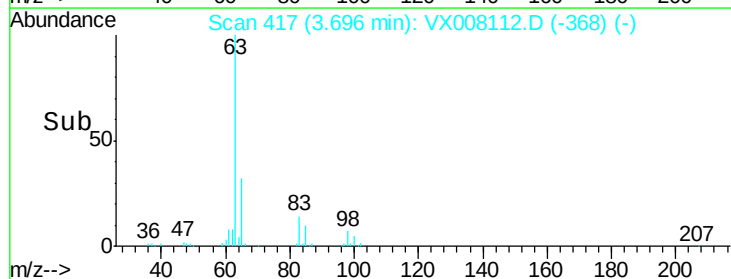
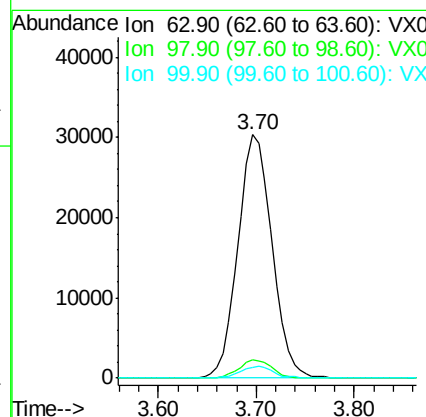
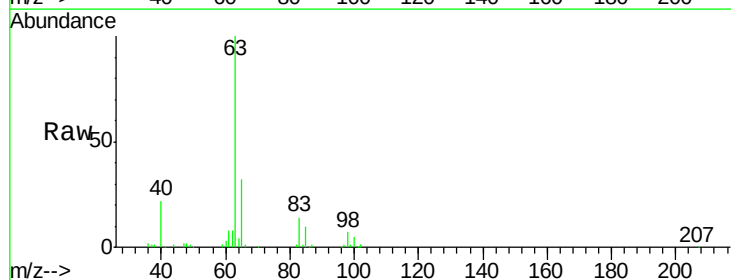
Manual Integrations
 APPROVED

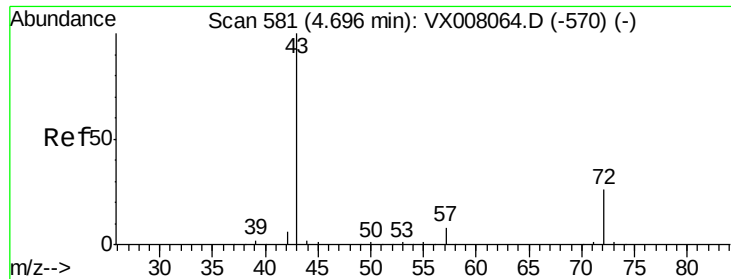
MMDadoda
 3/16/2019 10:33:22 AM



#24
 1,1-Dichloroethane
 Concen: 18.406 ug/l
 RT: 3.70 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.3	9.8
100	4.6	2.3	6.8





#25

2-Butanone

Concen: 90.971 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 43 Resp: 174954

Ion Ratio Lower Upper

43 100

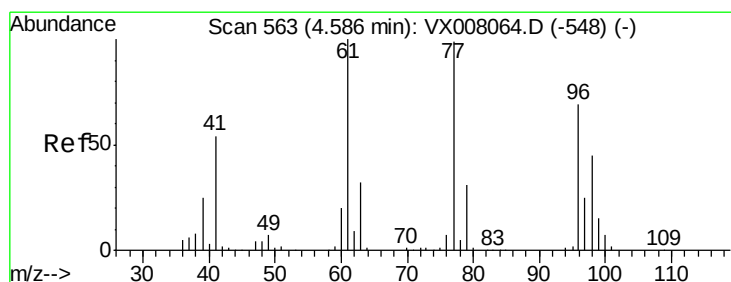
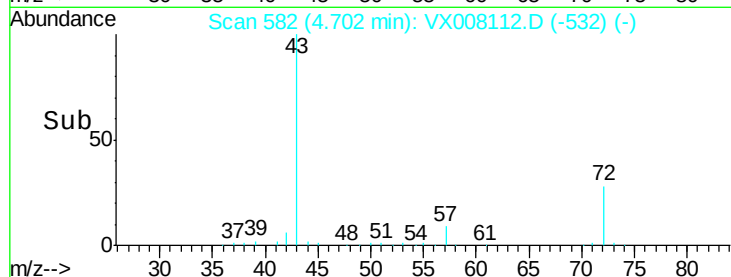
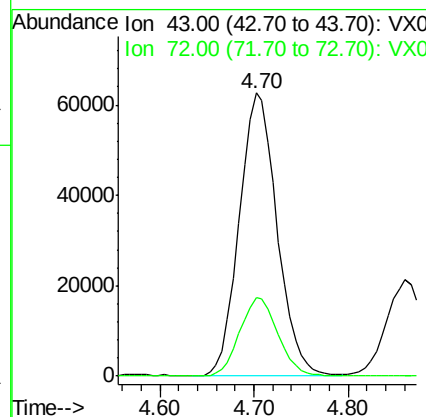
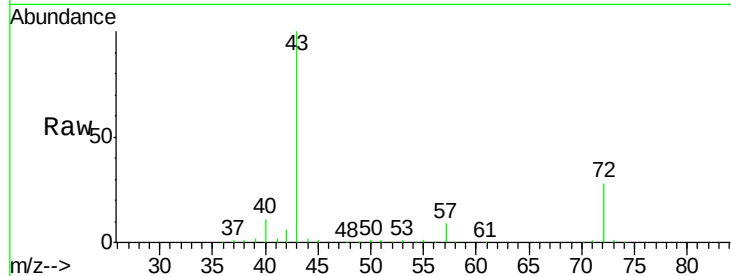
72 27.8 19.9 29.9

Manual Integrations

APPROVED

MMDadoda

3/16/2019 10:33:22 AM



#26

2,2-Dichloropropane

Concen: 17.506 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX008112.D

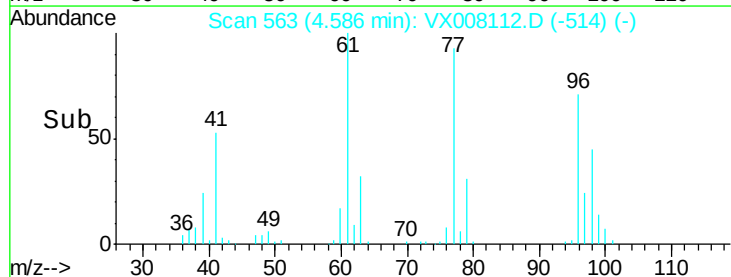
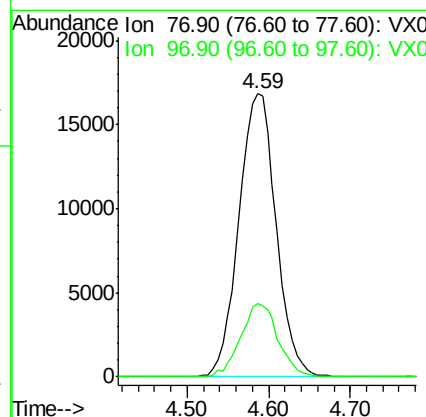
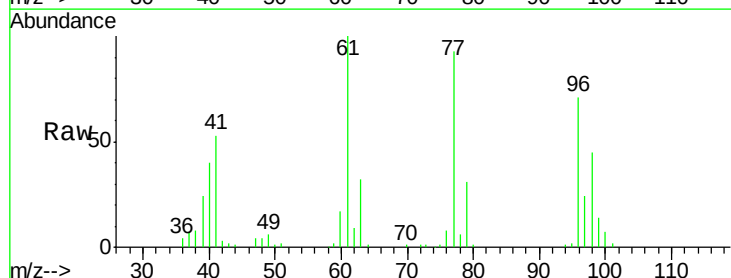
Acq: 15 Mar 2019 18:09

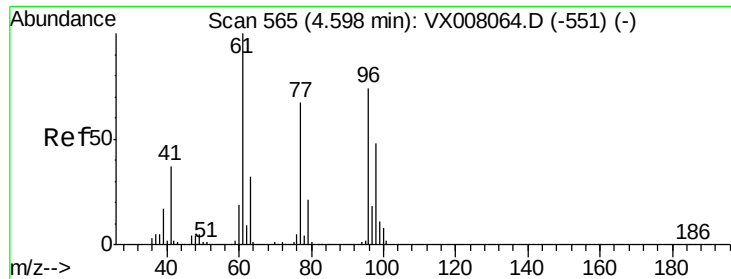
Tgt Ion: 77 Resp: 53234

Ion Ratio Lower Upper

77 100

97 26.1 12.2 36.6





#27

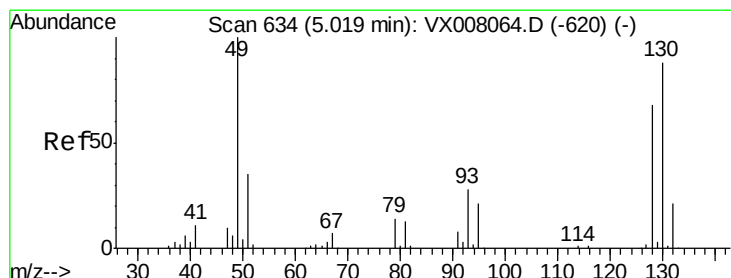
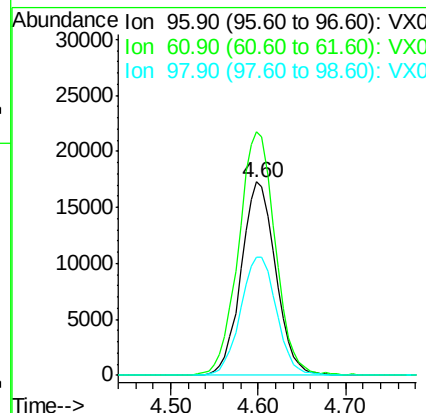
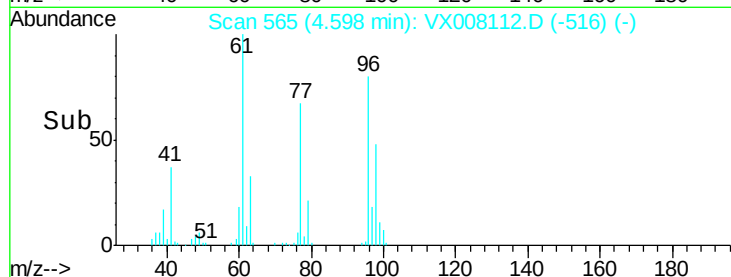
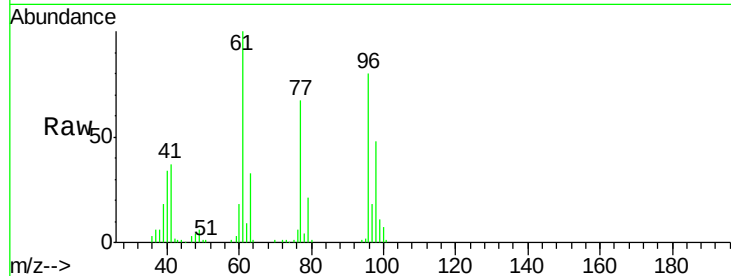
cis-1,2-Dichloroethene
Concen: 18.419 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	0.0	288.0
98	63.7	0.0	129.0

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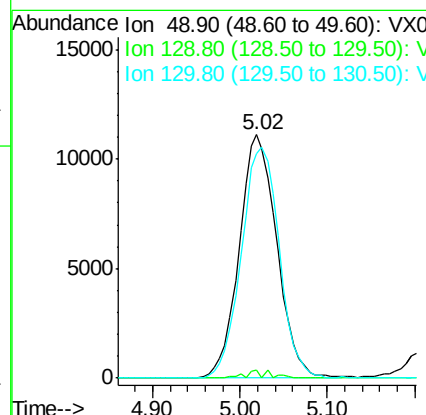
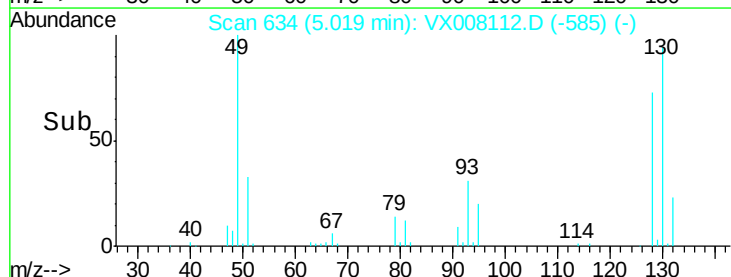
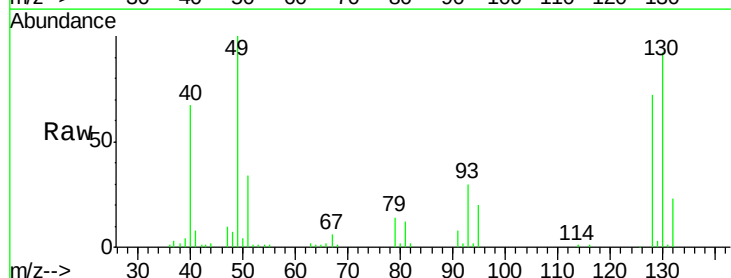
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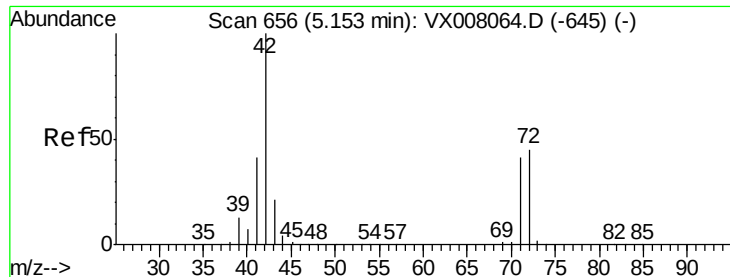


#28

Bromochloromethane
Concen: 17.691 ug/l
RT: 5.02 min Scan# 634
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.0
130	95.4	65.0	97.4





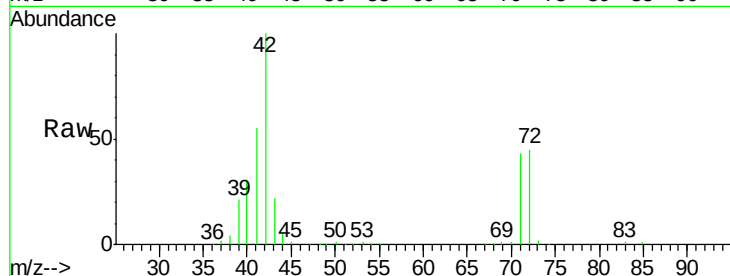
#29
Tetrahydrofuran
Concen: 90.222 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

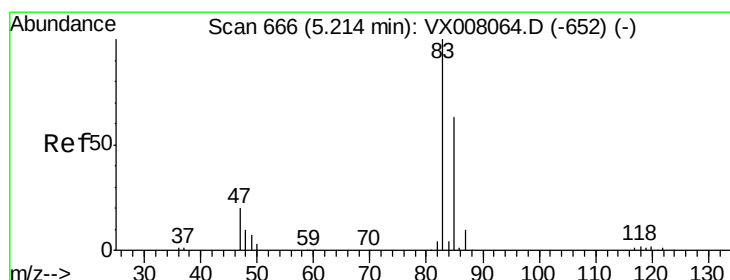
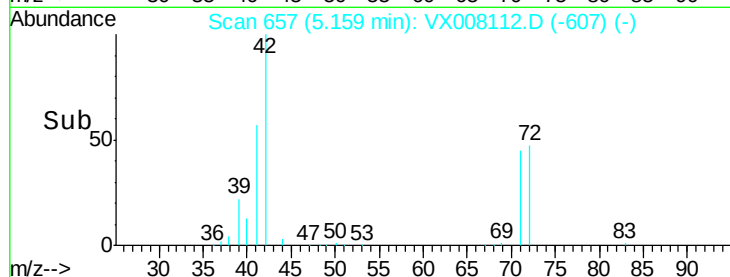
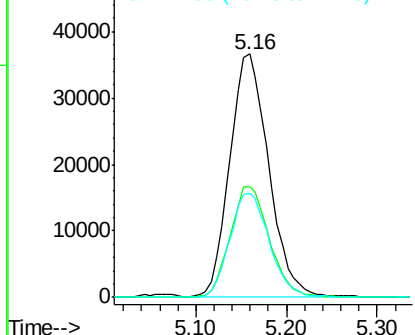
Tot Ion	Ratio	Lower	Upper
42	100		
72	46.4	33.8	50.6
71	43.7	31.5	47.3

Manual Integrations
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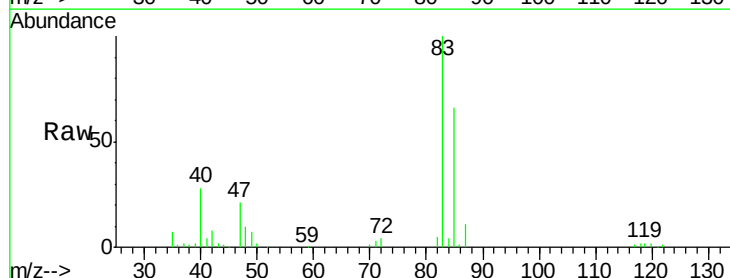


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

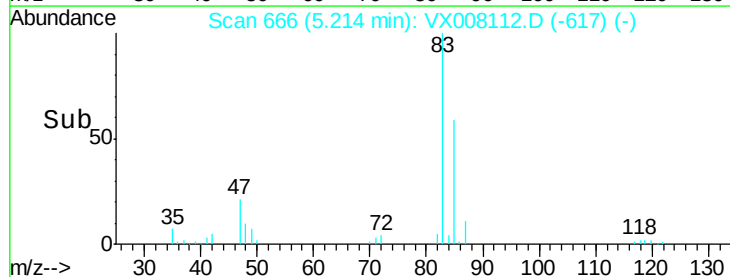
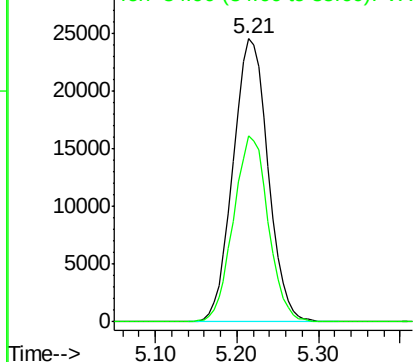


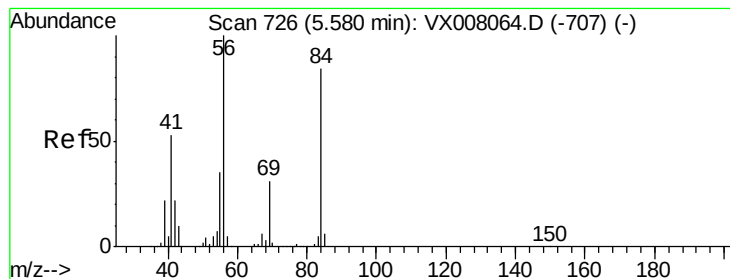
#30
Chloroform
Concen: 18.114 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.6



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 17.242 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

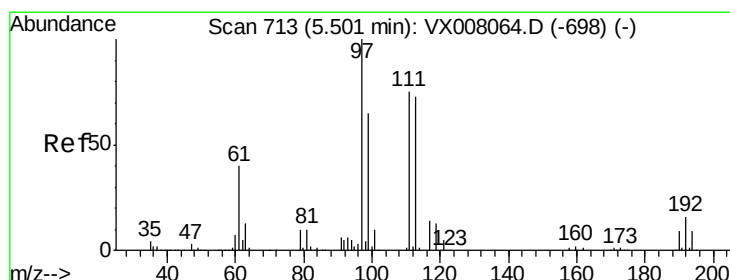
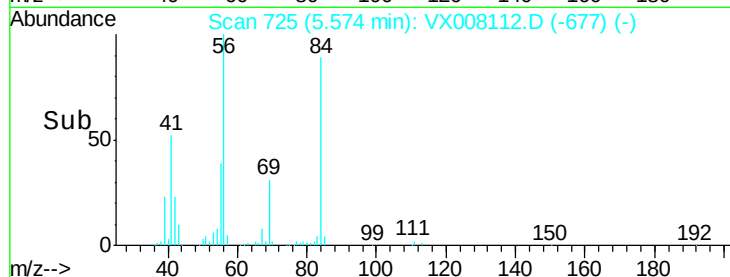
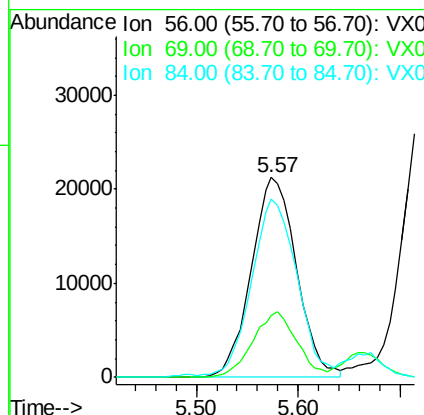
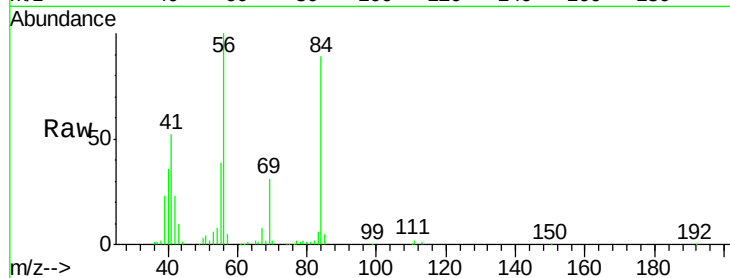
ClientSampleId :

VX0315WBS02

Tot Ion:	56	Resp:	65429
Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.0	36.0
84	87.7	65.3	97.9

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#32

1,1,1-Trichloroethane

Concen: 18.180 ug/l

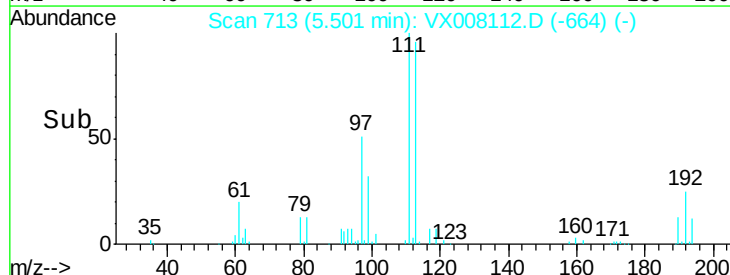
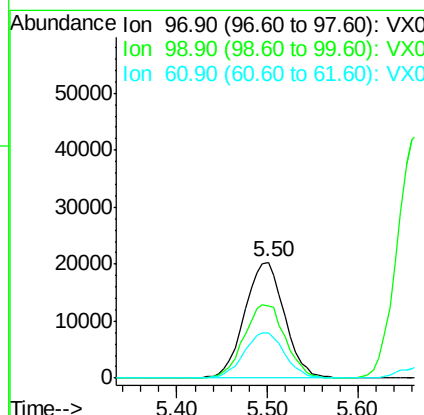
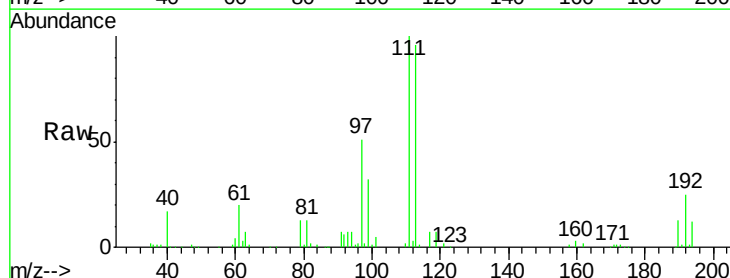
RT: 5.50 min Scan# 713

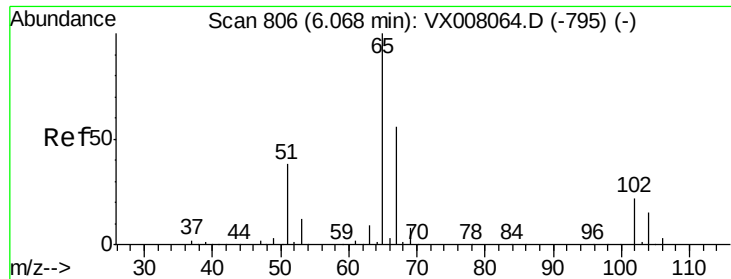
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	97	Resp:	61740
Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.2	78.2
61	40.0	34.9	52.3





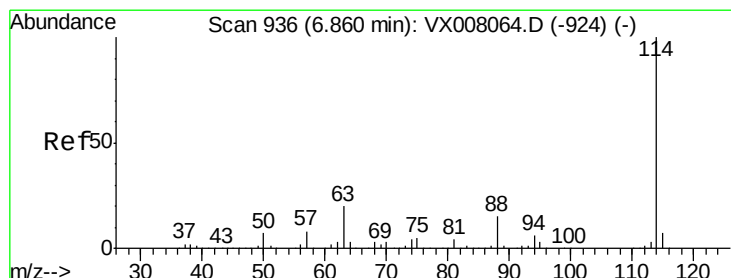
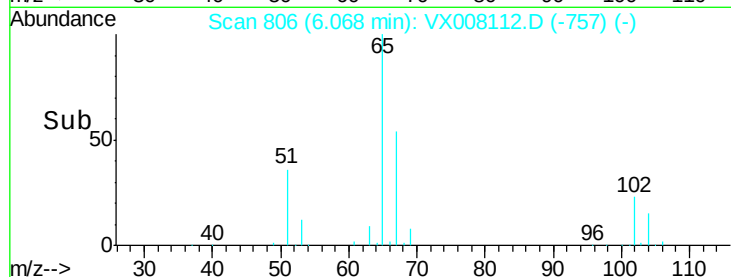
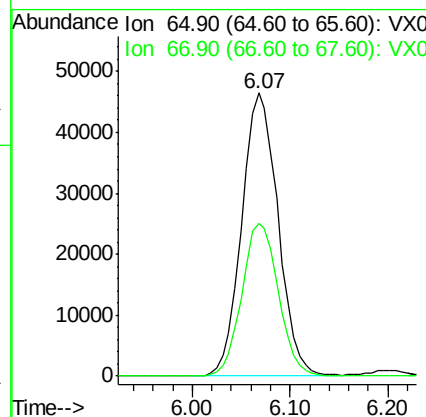
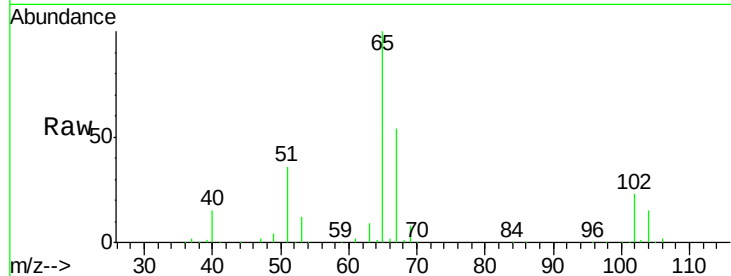
#33
 1,2-Dichloroethane-d4
 Concen: 45.241 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampled :
 VX0315WBS02

Tot Ion: 65 Resp: 120067
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.0

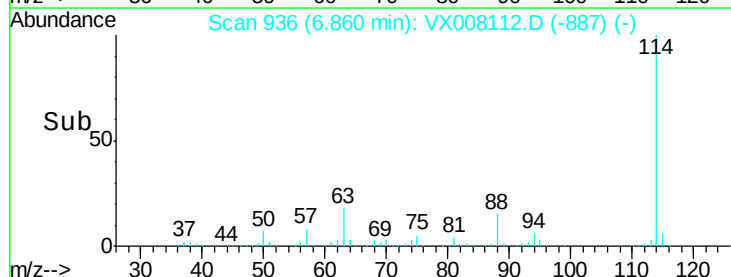
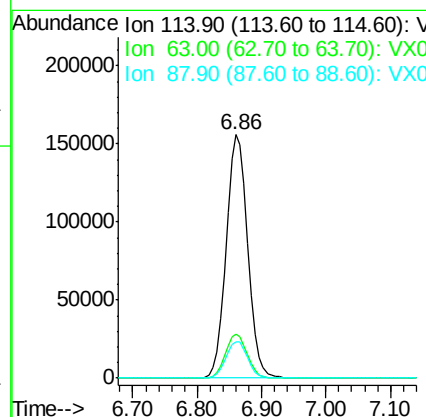
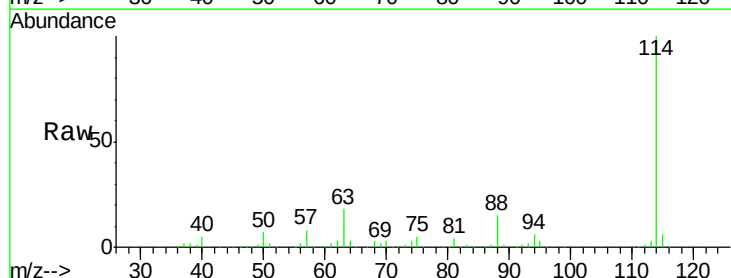
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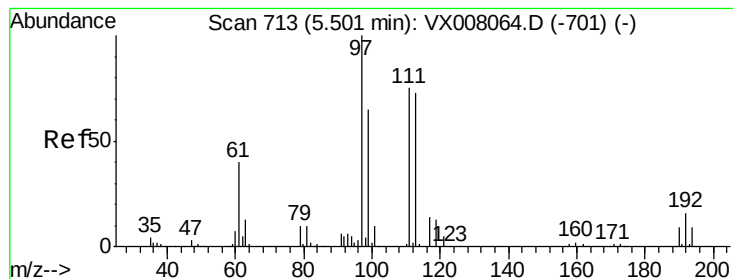
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion: 114 Resp: 367708
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 39.8
 88 15.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.074 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion:113 Resp: 112098

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

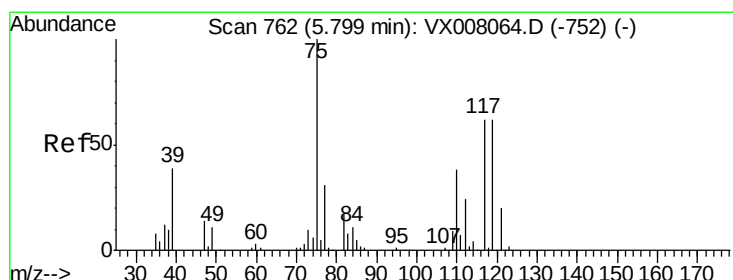
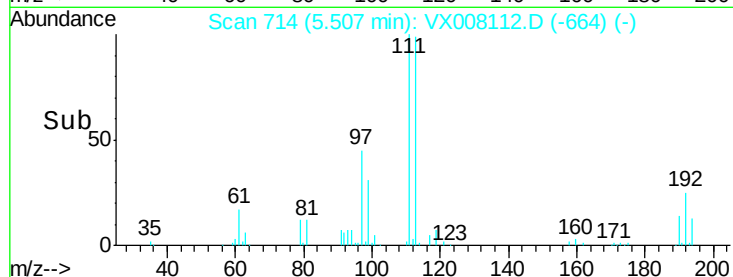
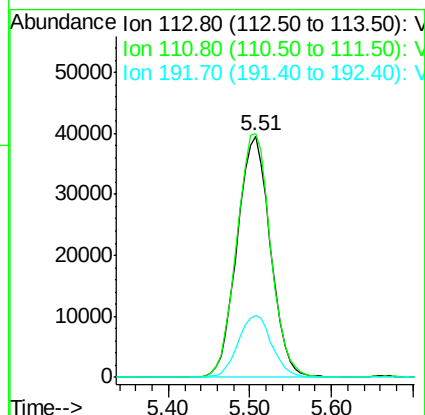
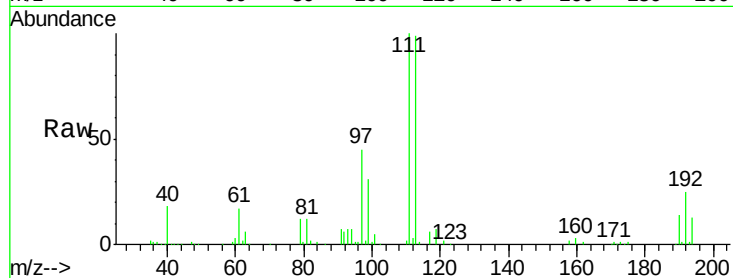
192 26.0 19.4 29.0

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#36

1,1-Dichloropropene

Concen: 17.883 ug/l

RT: 5.80 min Scan# 762

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

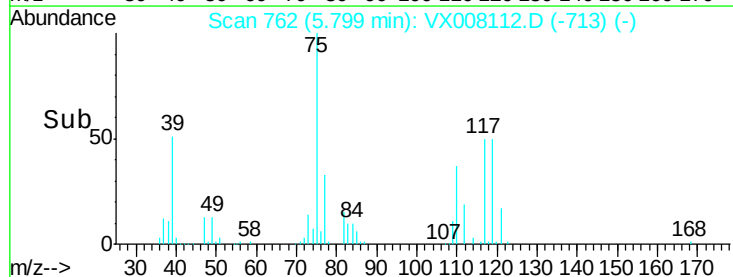
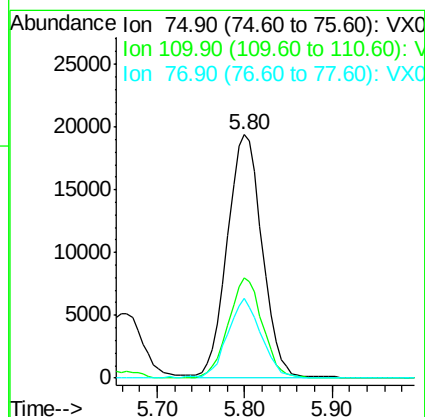
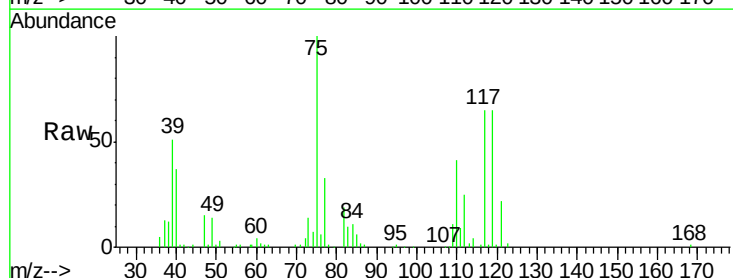
Tgt Ion: 75 Resp: 54096

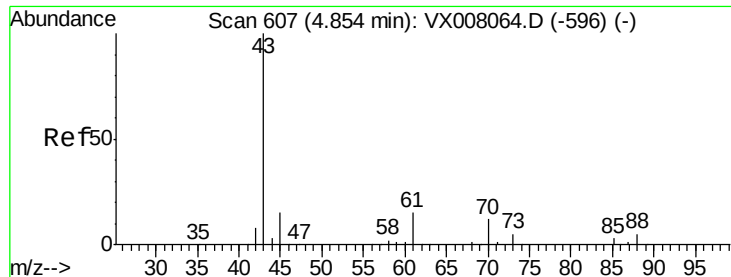
Ion Ratio Lower Upper

75 100

110 39.7 18.4 55.0

77 31.5 25.0 37.4





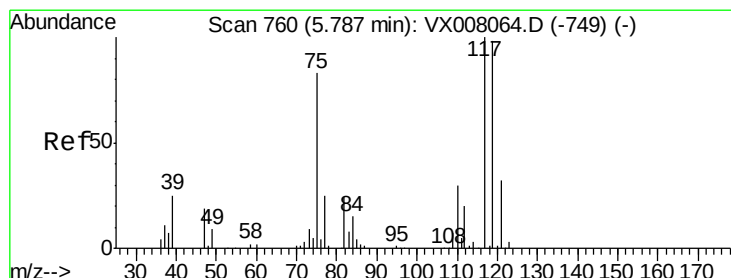
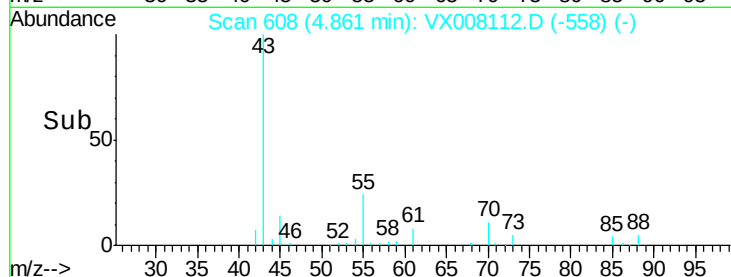
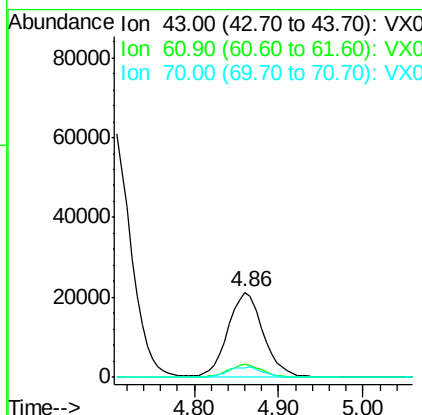
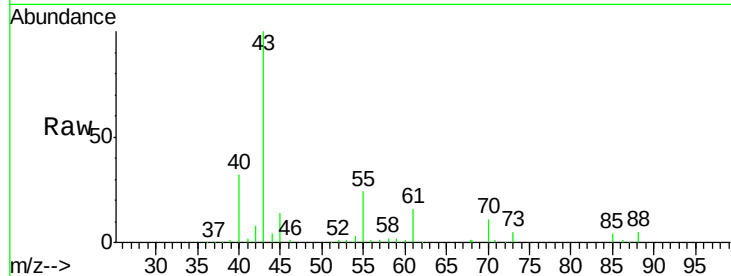
#37
Ethyl Acetate
Concen: 18.545 ug/l
RT: 4.86 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.3	16.9
70	12.2	8.5	12.7

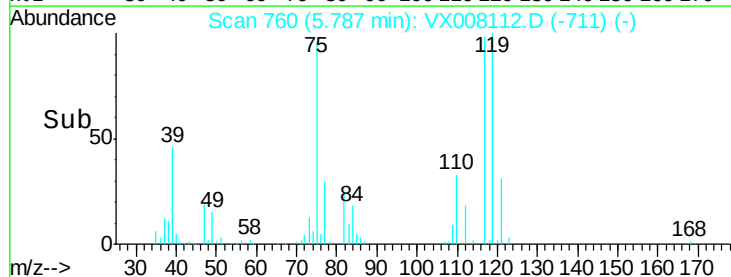
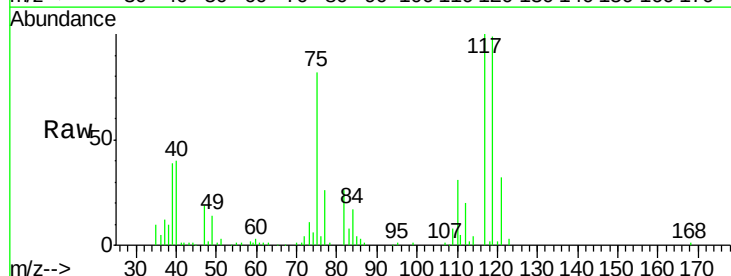
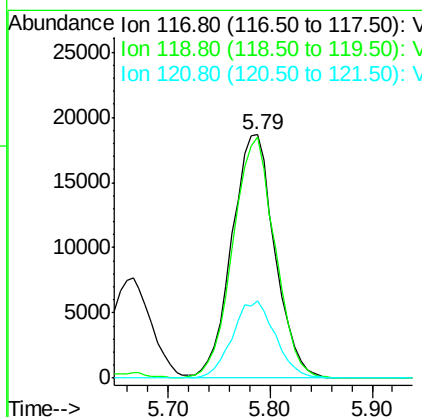
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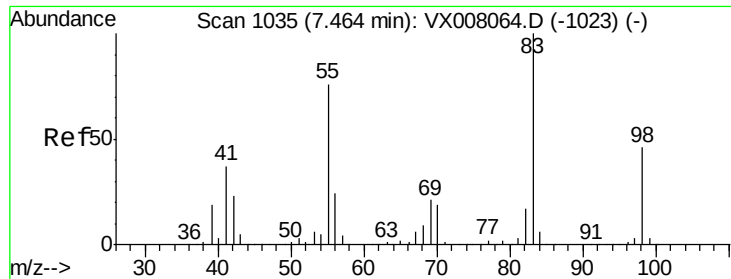
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#38
Carbon Tetrachloride
Concen: 18.749 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.2	114.2
121	31.5	24.6	36.8





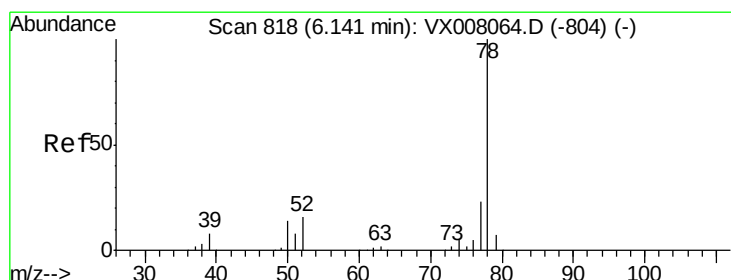
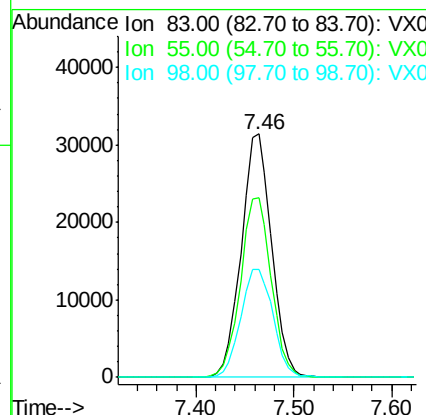
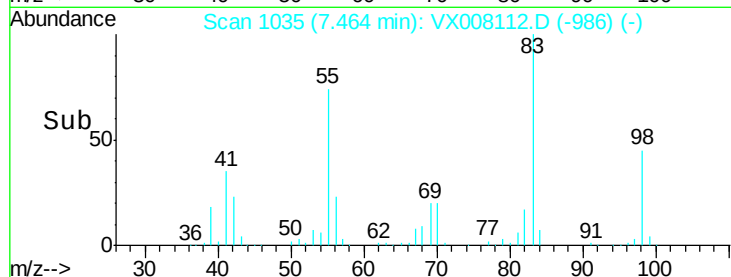
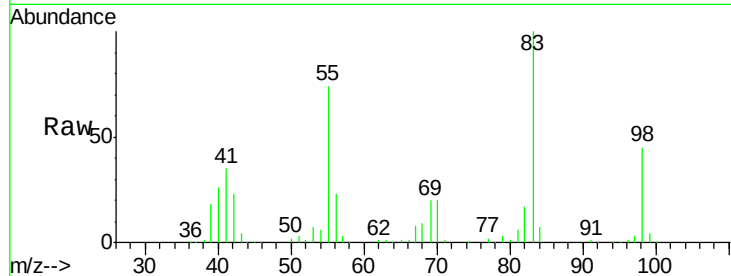
#39
Methylvlcyclohexane
Concen: 17.480 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.7	60.4	90.6
98	44.6	36.5	54.7

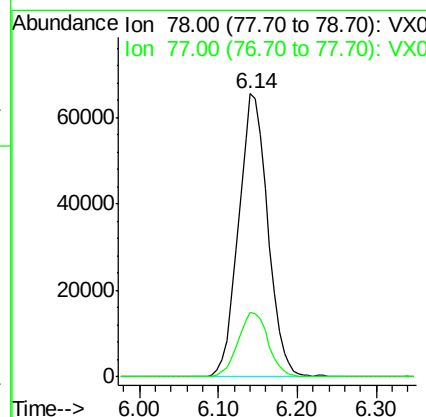
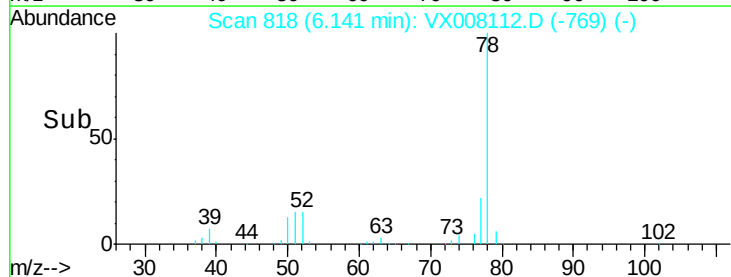
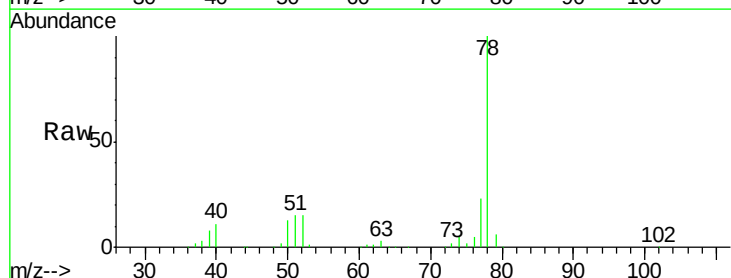
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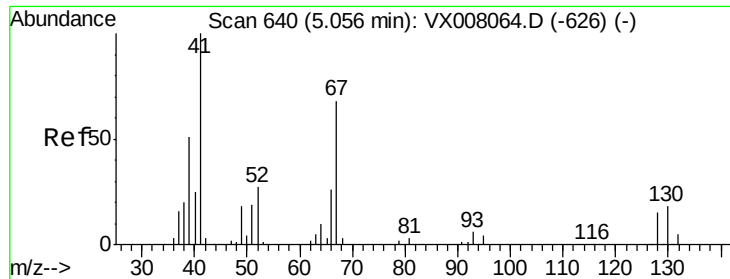
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#40
Benzene
Concen: 18.217 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.4





#41

Methacrylonitrile

Concen: 17.683 ug/l

RT: 5.06 min Scan# 641

Delta R.T. 0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 41 Resp: 33473

Ion Ratio Lower Upper

41 100

39 54.7 41.6 62.4

67 76.3 55.8 83.6

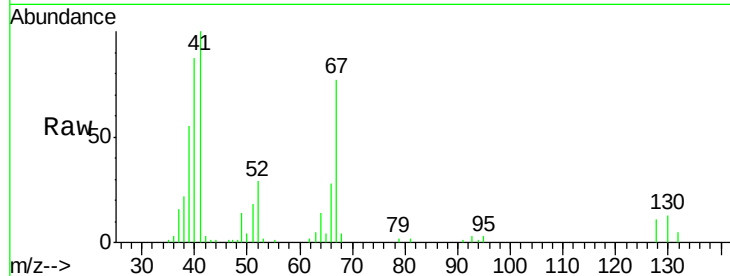
52 28.7 21.7 32.5

Manual Integrations

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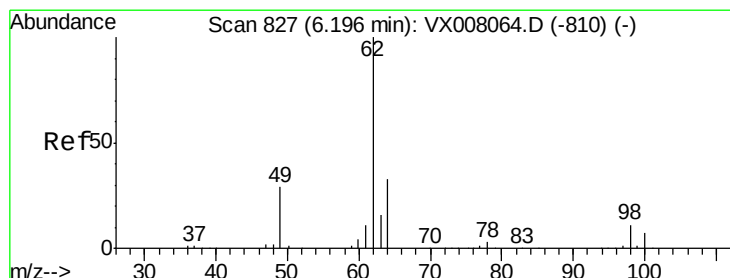
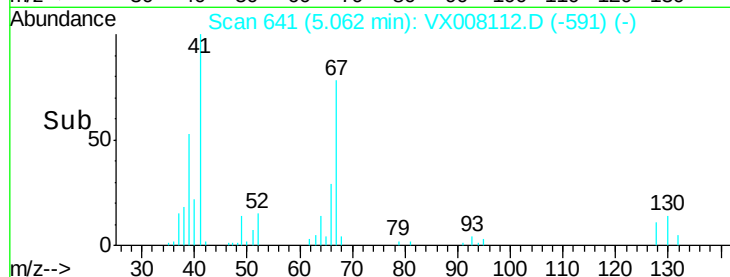
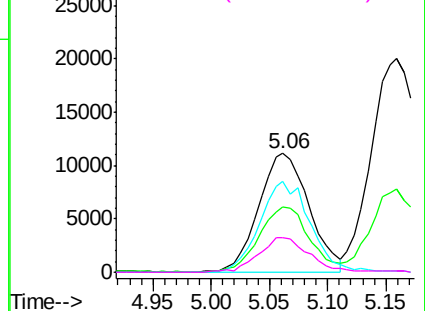
Abundance

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 18.409 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX008112.D

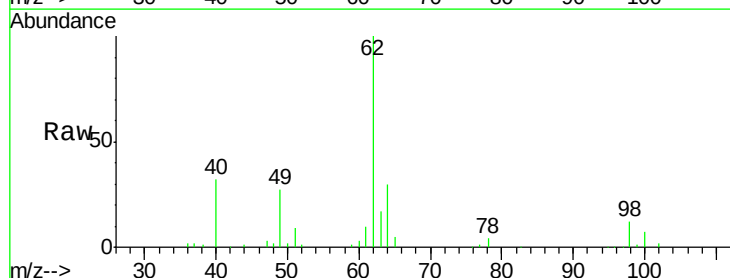
Acq: 15 Mar 2019 18:09

Tgt Ion: 62 Resp: 54576

Ion Ratio Lower Upper

62 100

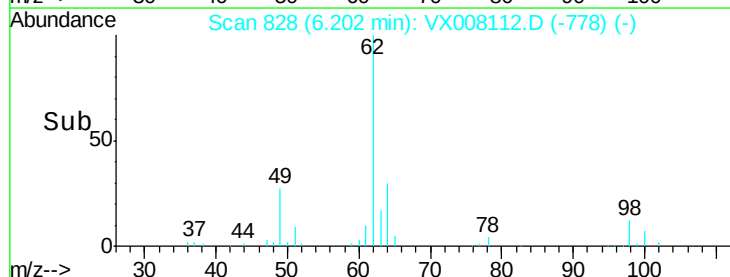
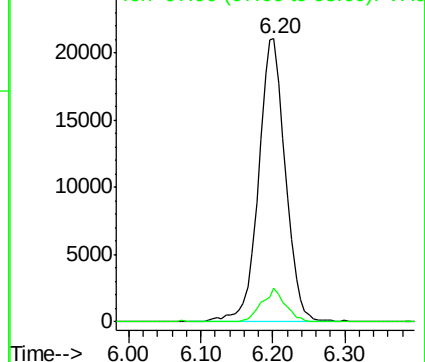
98 10.5 0.0 20.4

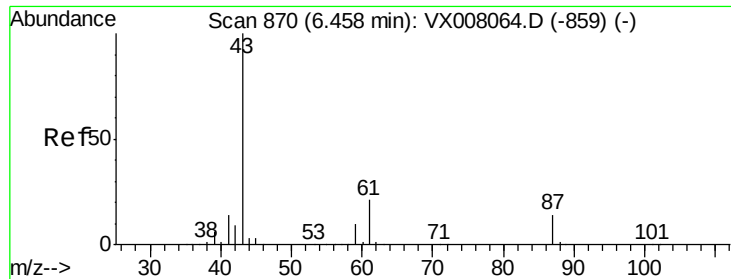


Abundance

Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 17.570 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

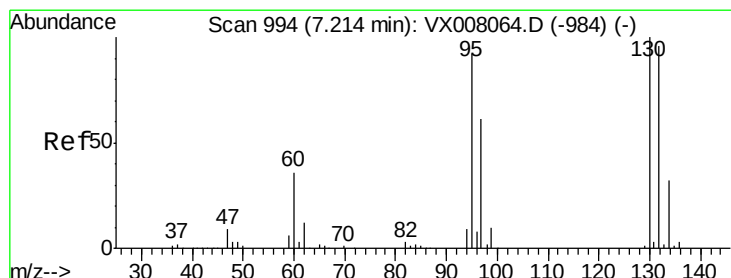
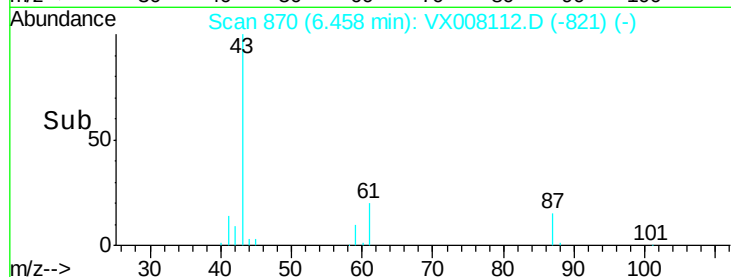
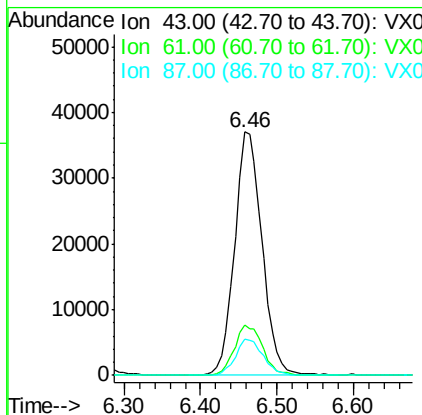
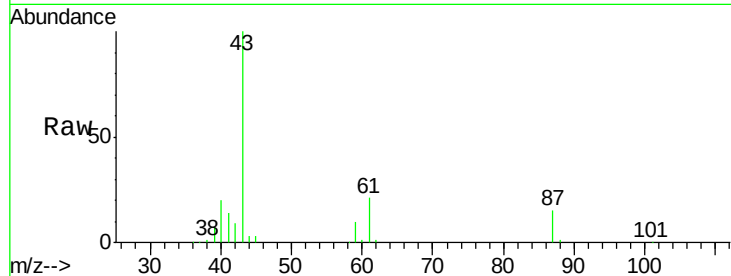
ClientSampleId :

VX0315WBS02

Tot Ion:	43	Resp:	91994
Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.3	24.5
87	14.9	10.5	15.7

Manual Integrations
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3/16/2019 10:33:22 AM



#44

Trichloroethene

Concen: 18.198 ug/l

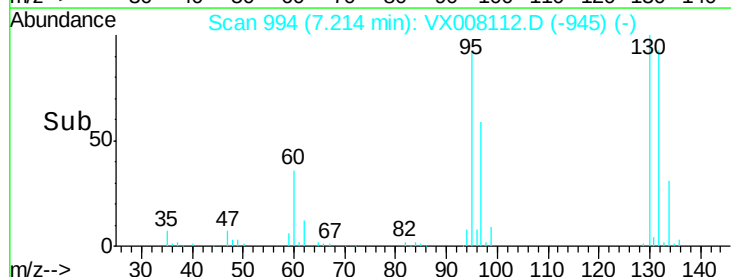
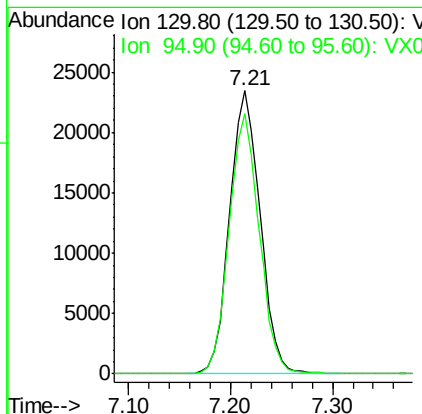
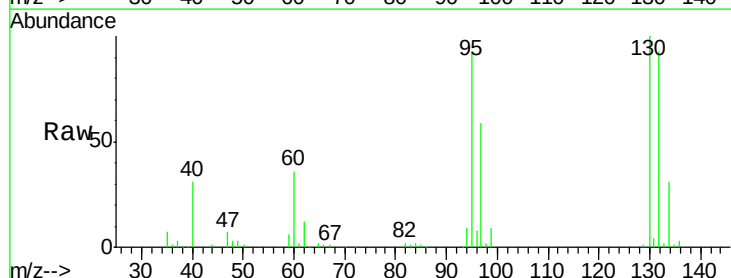
RT: 7.21 min Scan# 994

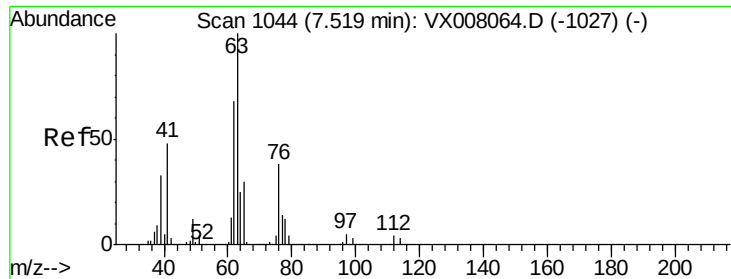
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	130	Resp:	48670
Ion	Ratio	Lower	Upper
130	100		
95	92.0	0.0	188.0





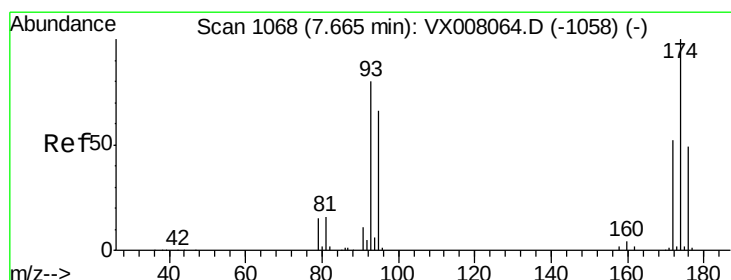
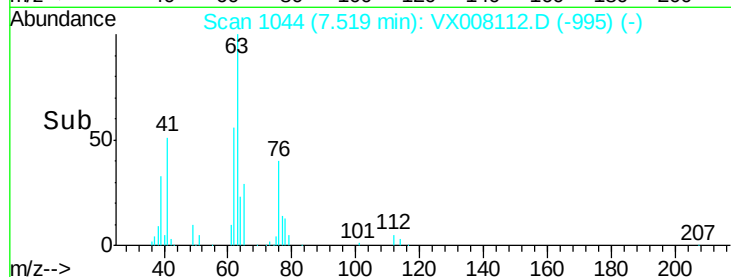
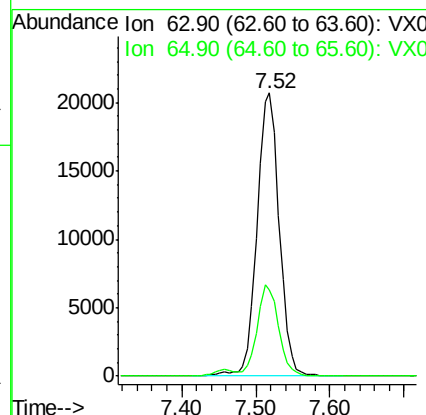
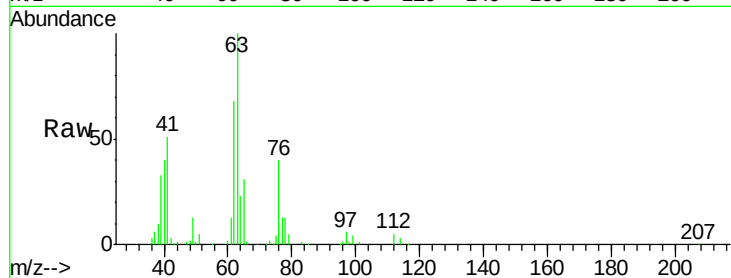
#45
 1,2-Dichloropropane
 Concen: 17.775 ug/l
 RT: 7.52 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion: 63 Resp: 43458
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.7 37.1

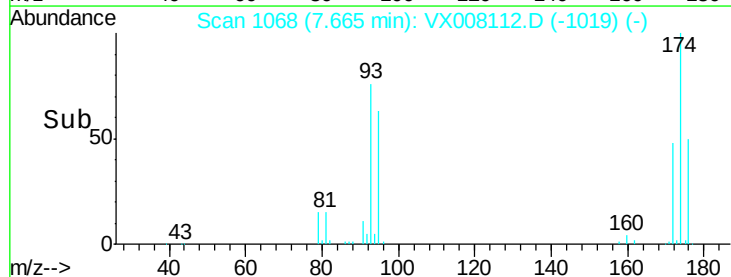
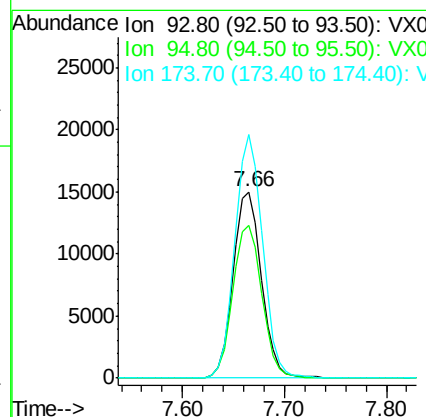
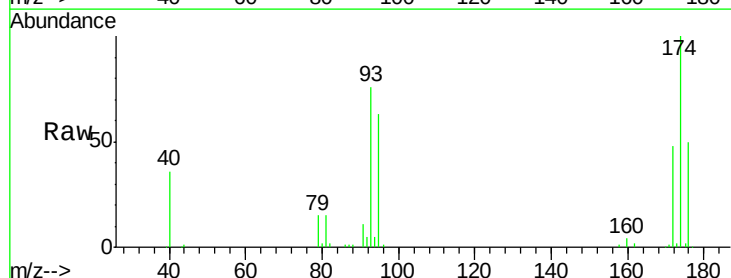
Manual Integrations
 APPROVED

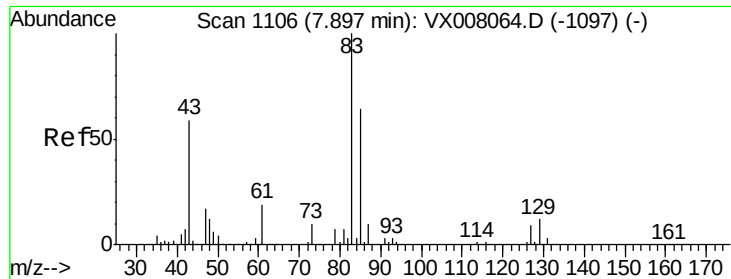
MMDadoda
 3/16/2019 10:33:22 AM



#46
 Dibromomethane
 Concen: 18.800 ug/l
 RT: 7.66 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion: 93 Resp: 28809
 Ion Ratio Lower Upper
 93 100
 95 84.2 66.8 100.2
 174 128.0 97.3 145.9





#47

Bromodichloromethane

Concen: 17.975 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

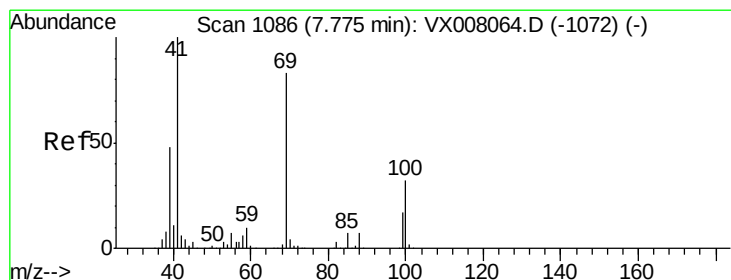
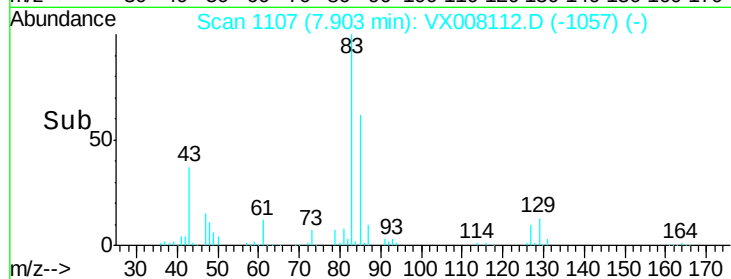
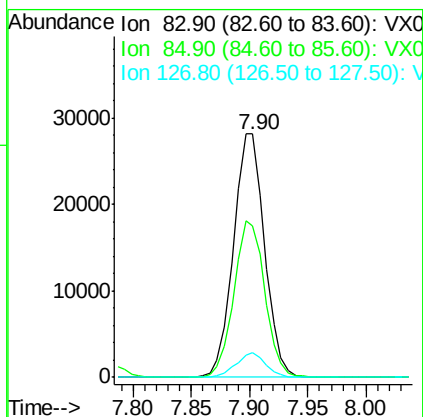
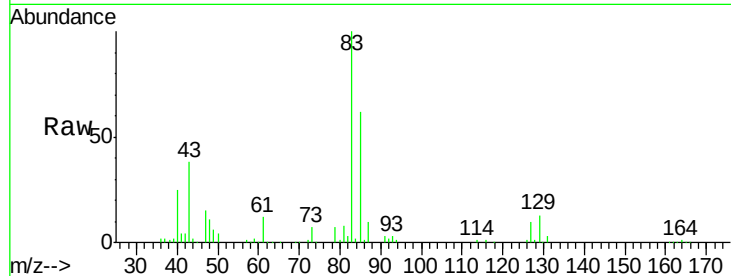
ClientSampleId :

VX0315WBS02

Tot Ion:	83	Resp:	52383
Ion Ratio	Lower	Upper	
83	100		
85	62.3	50.9	76.3
127	10.0	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
3/16/2019 10:33:22 AM



#48

Methyl methacrylate

Concen: 17.573 ug/l

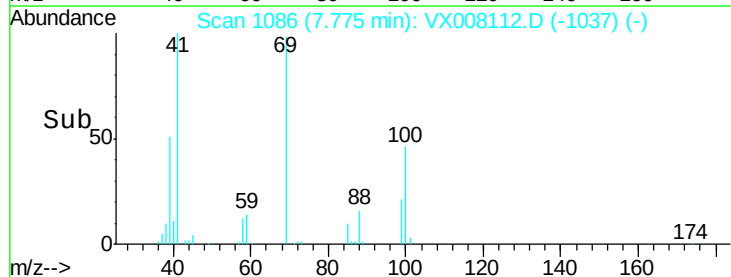
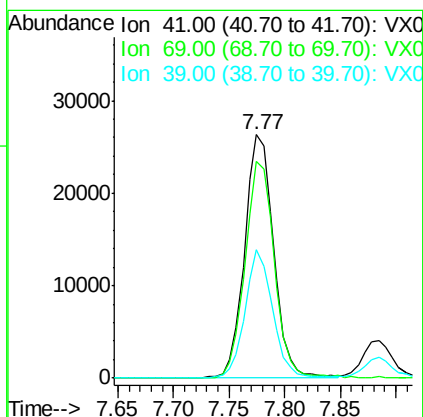
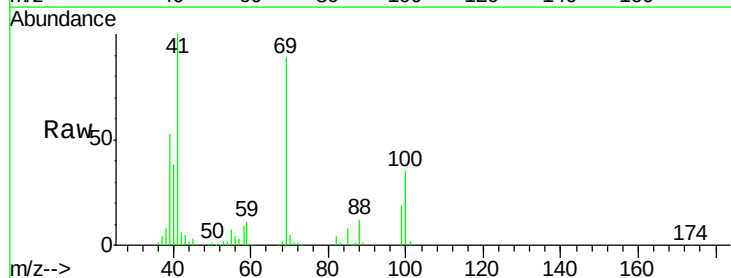
RT: 7.77 min Scan# 1086

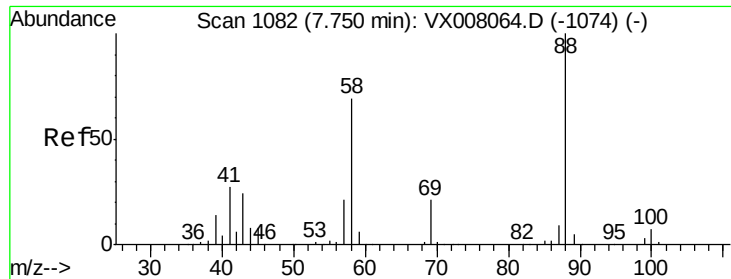
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	41	Resp:	48054
Ion Ratio	Lower	Upper	
41	100		
69	89.9	65.2	97.8
39	50.3	39.4	59.2





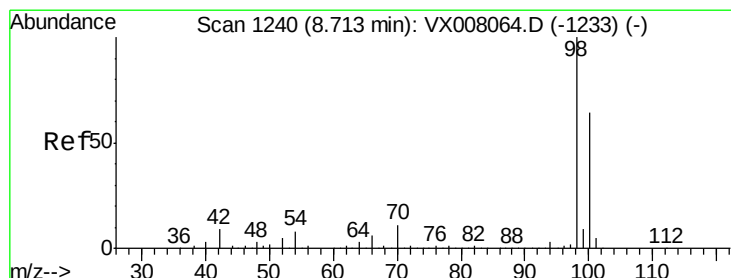
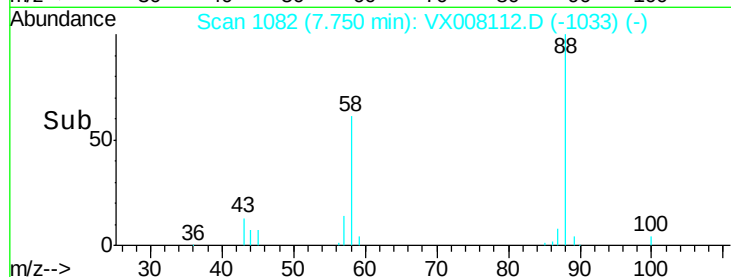
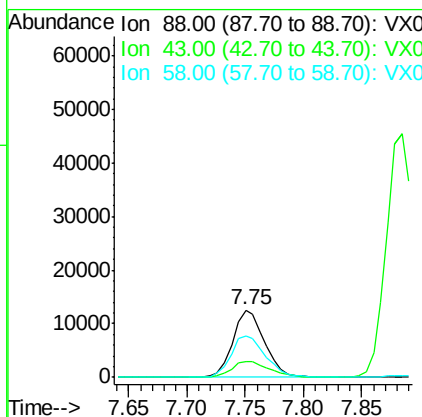
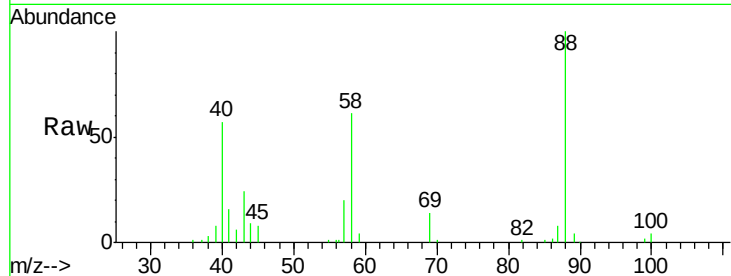
#49
1,4-Dioxane
Concen: 404.753 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.0	25.1	37.7
58	67.6	57.8	86.6

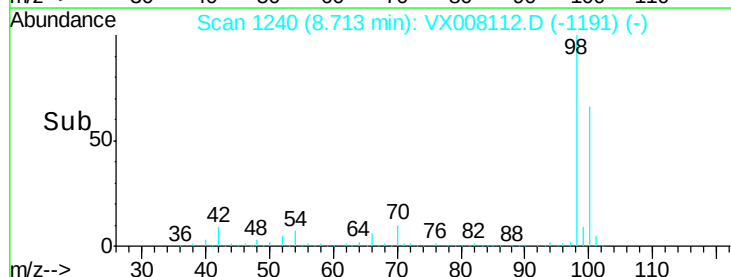
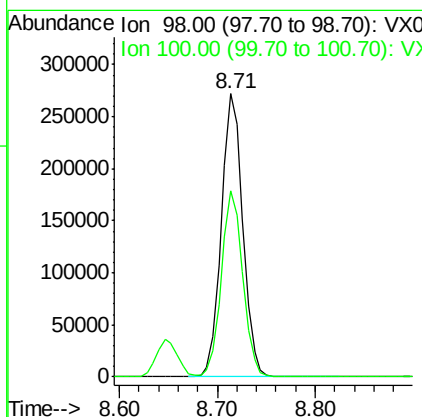
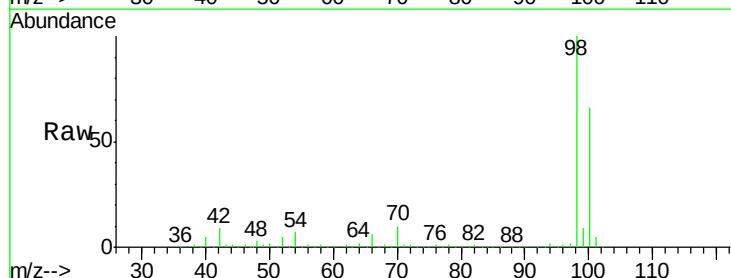
Manual Integrations
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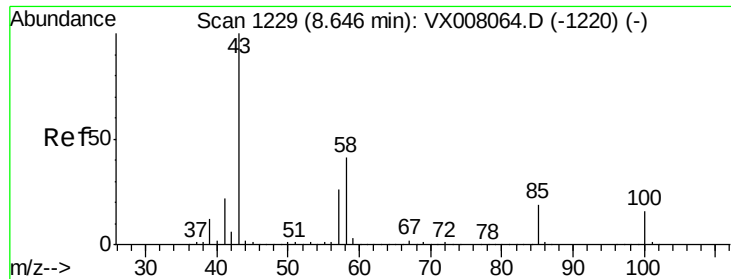
MMDadoda
3/16/2019 10:33:22 AM



#50
Toluene-d8
Concen: 46.641 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 89.190 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 43 Resp: 307776

Ion Ratio Lower Upper

43 100

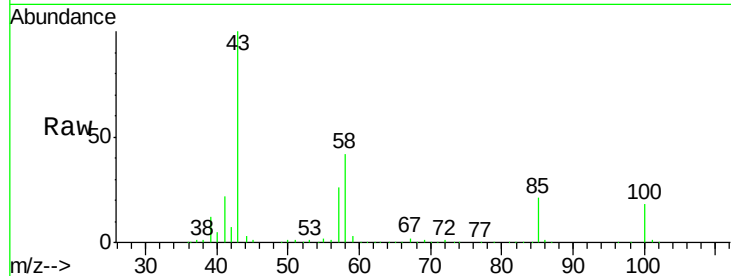
58 41.8 31.3 46.9

Manual Integrations

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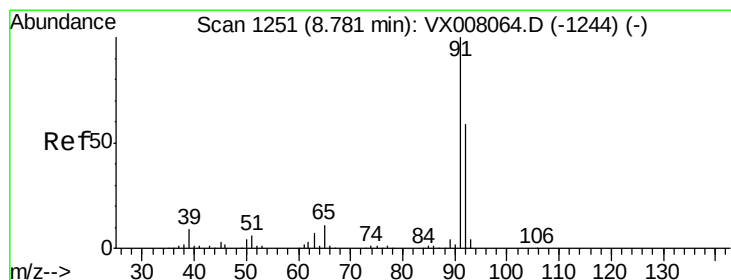
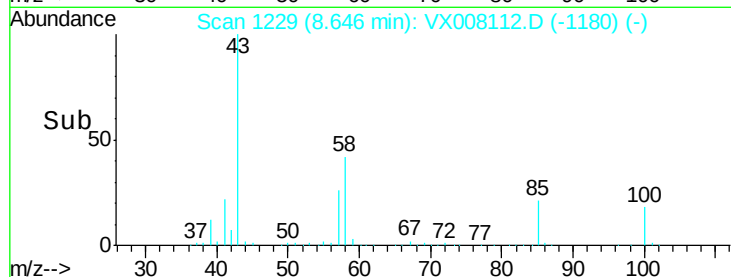
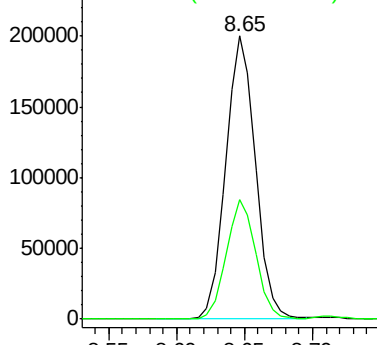
MMDadoda

3/16/2019 10:33:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 17.785 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008112.D

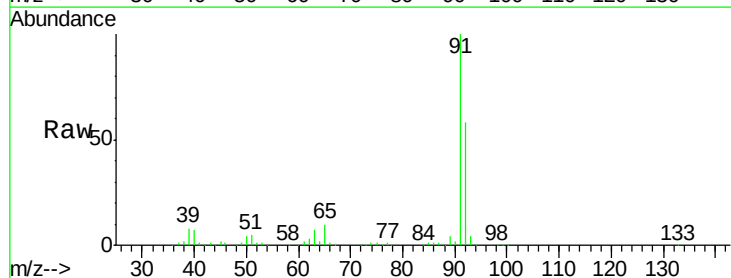
Acq: 15 Mar 2019 18:09

Tgt Ion: 92 Resp: 104767

Ion Ratio Lower Upper

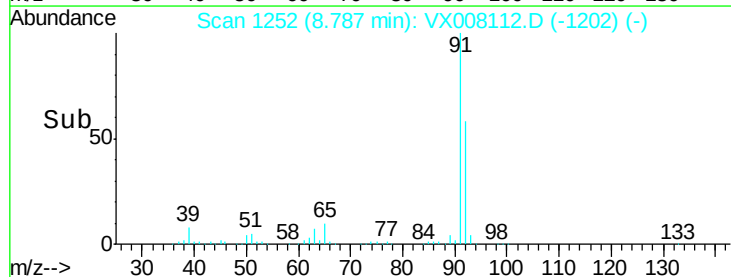
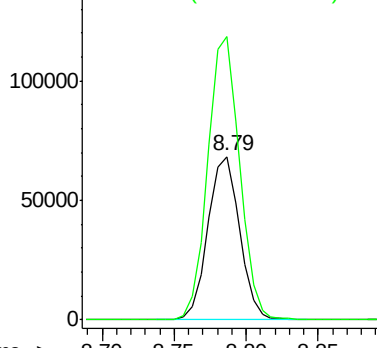
92 100

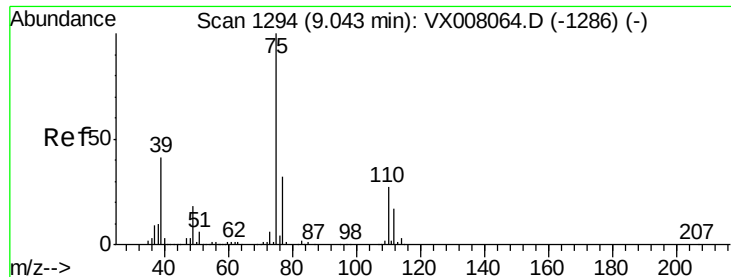
91 173.9 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





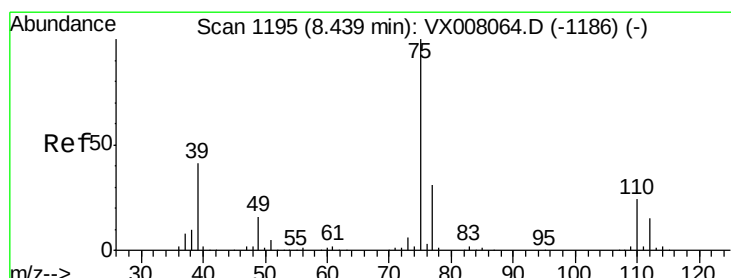
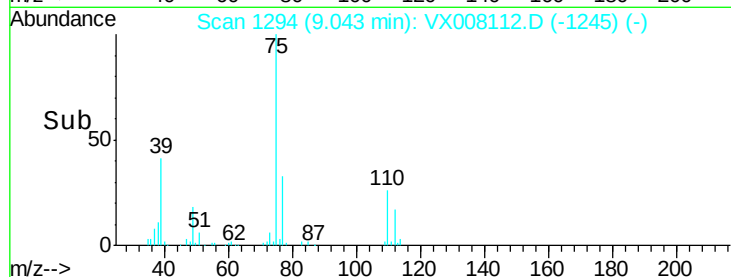
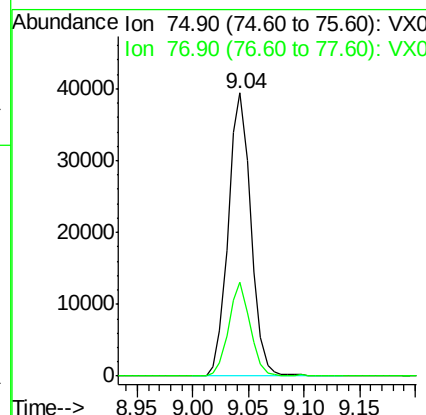
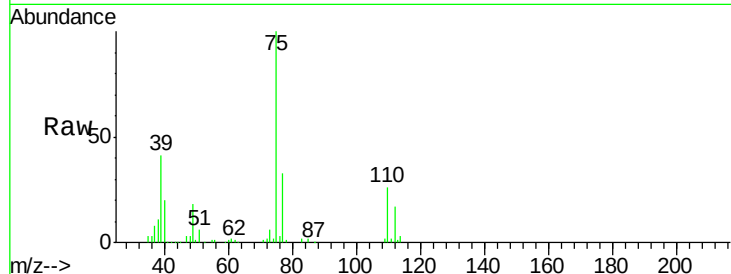
#53
 t-1,3-Dichloropropene
 Concen: 17.394 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion: 75 Resp: 55570
 Ion Ratio Lower Upper
 75 100
 77 33.2 25.4 38.0

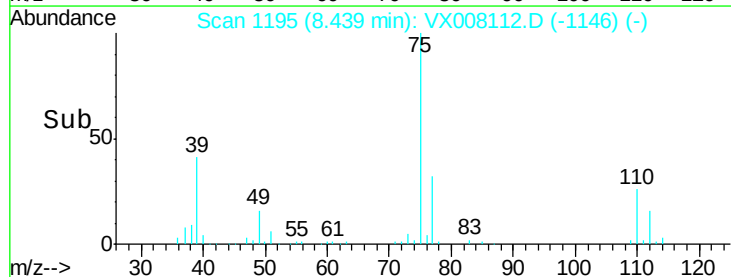
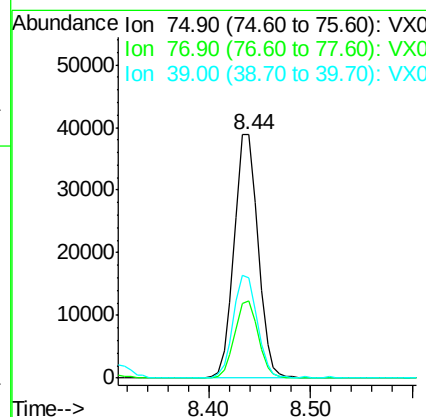
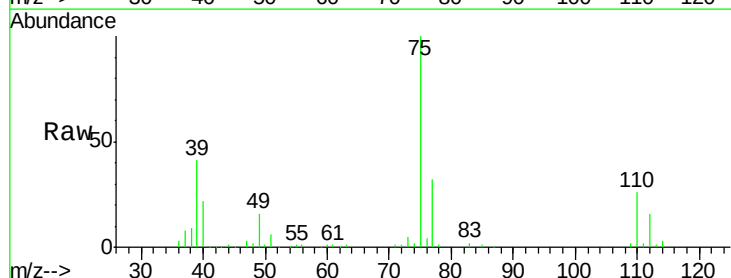
Manual Integrations
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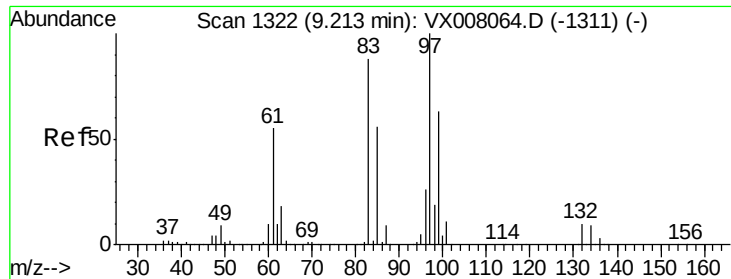
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 17.713 ug/l
 RT: 8.44 min Scan# 1195
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion: 75 Resp: 62892
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.0 37.6
 39 40.9 36.6 54.8





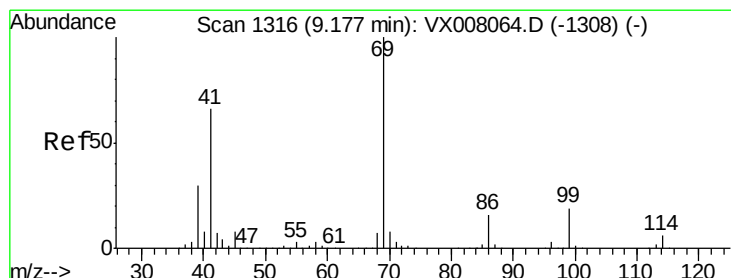
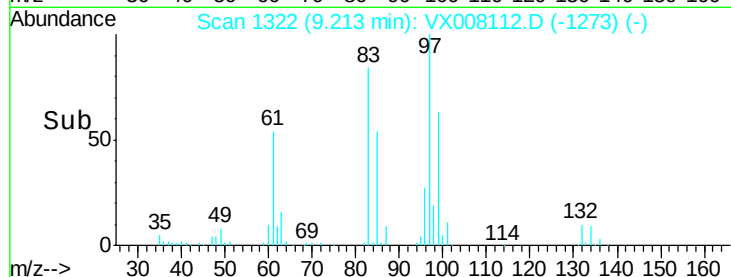
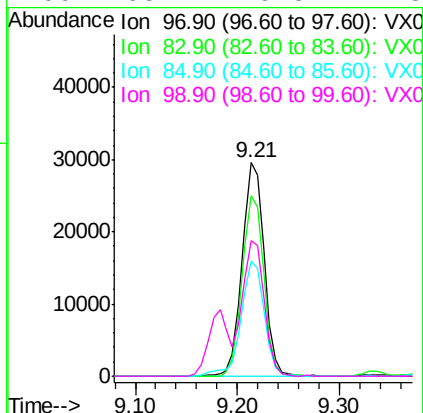
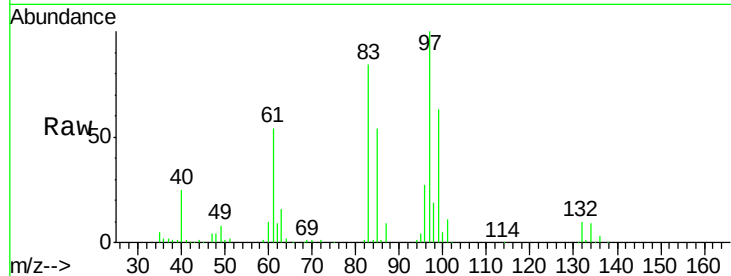
#55
 1,1,2-Trichloroethane
 Concen: 18.402 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.3	69.1	103.7
85	53.7	44.3	66.5
99	63.4	49.8	74.8

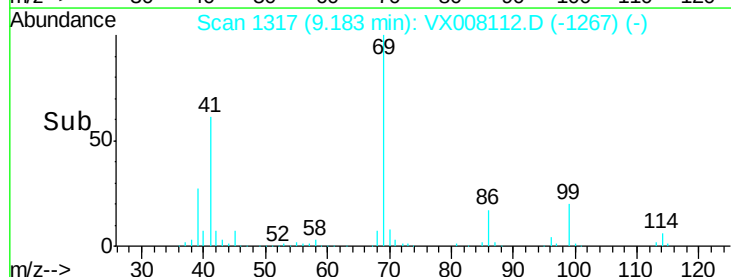
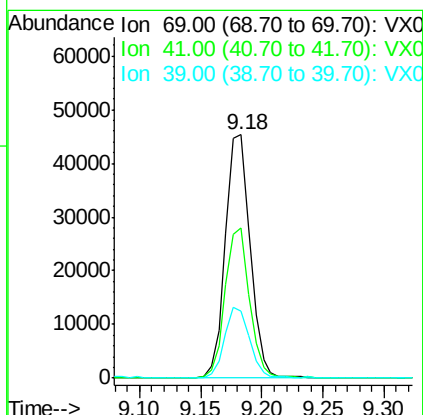
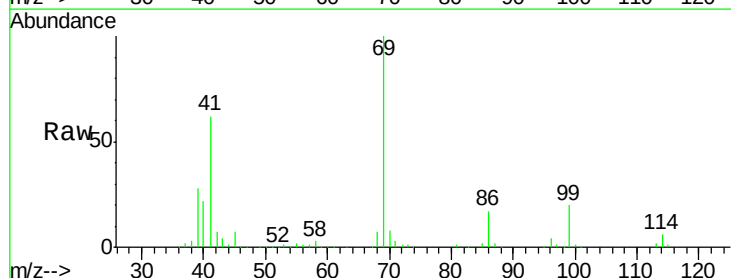
Manual Integrations
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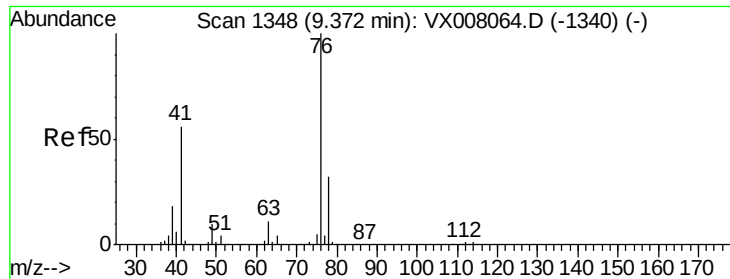
MMDadoda
 3/16/2019 10:33:22 AM



#56
 Ethyl methacrylate
 Concen: 18.031 ug/l
 RT: 9.18 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.0	54.2	81.4
39	28.9	25.0	37.4





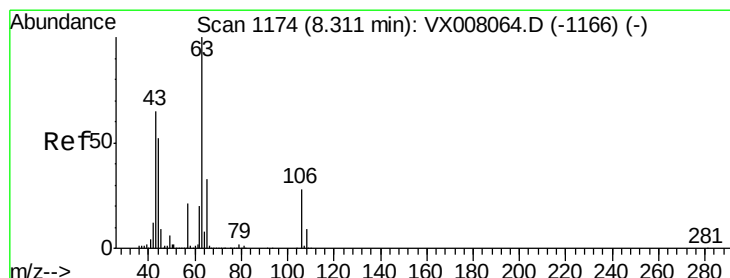
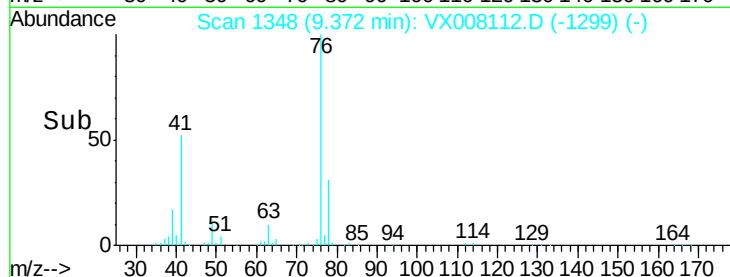
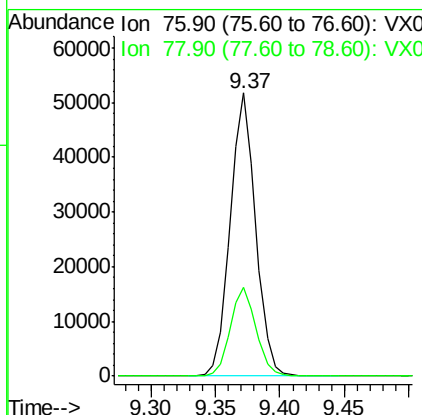
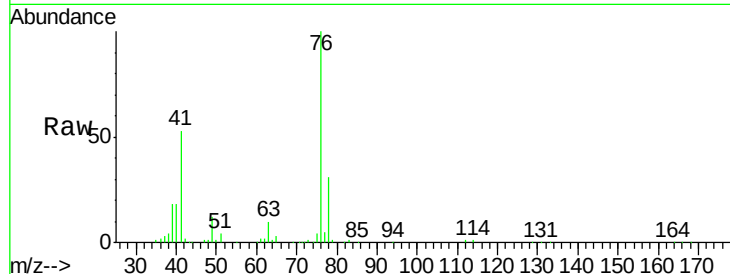
#57
 1,3-Dichloropropane
 Concen: 18.052 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3

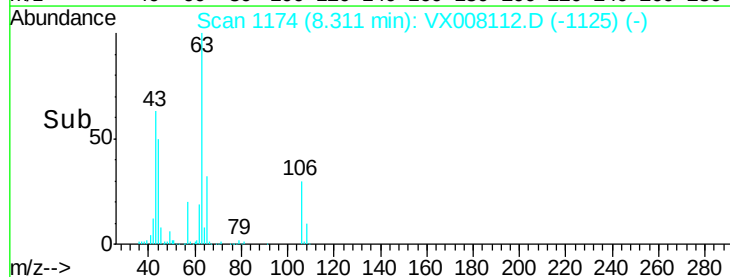
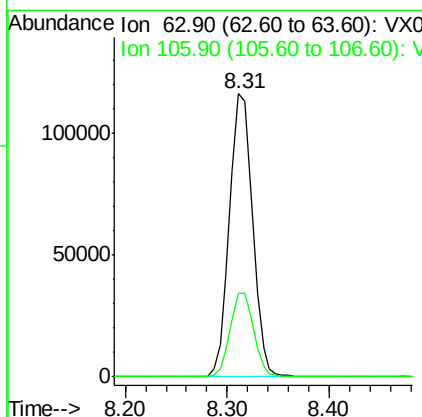
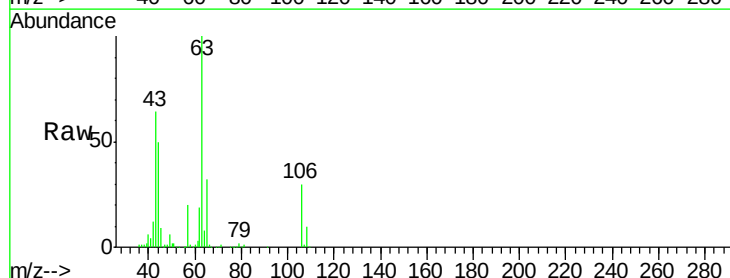
Manual Integrations
 APPROVED

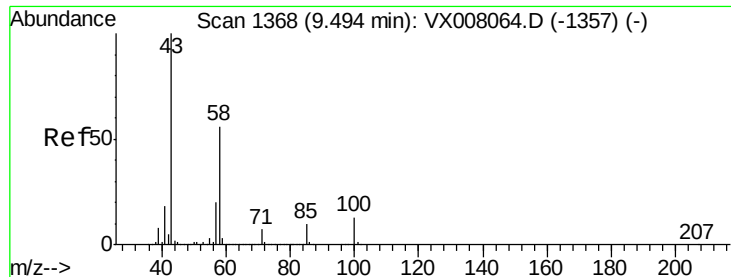
MMDadoda
 3/16/2019 10:33:22 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 87.893 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.0	22.2	33.2





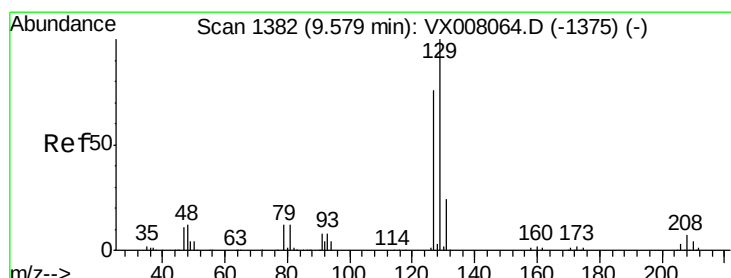
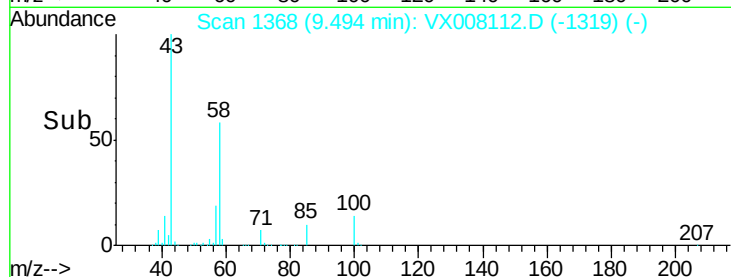
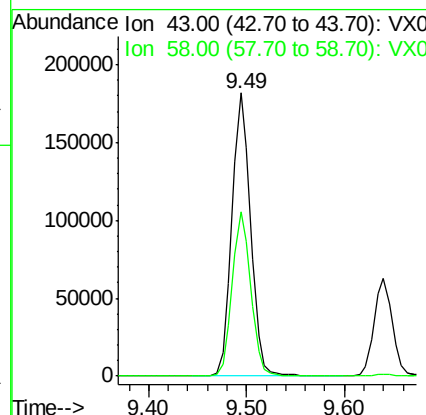
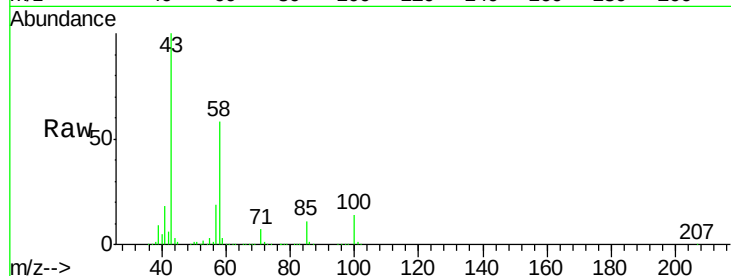
#59
2-Hexanone
Concen: 89.591 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	43	Resp	241785
Ion Ratio	100	Lower	Upper
43	100		
58	57.8	27.6	82.7

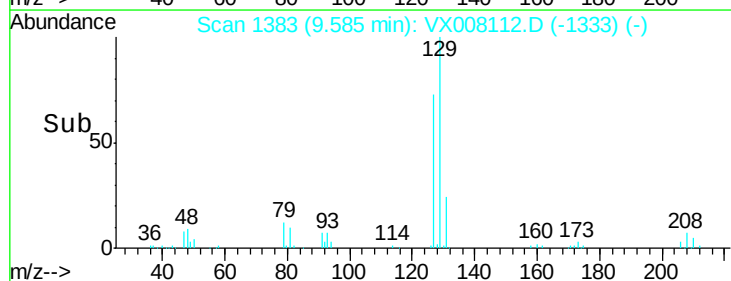
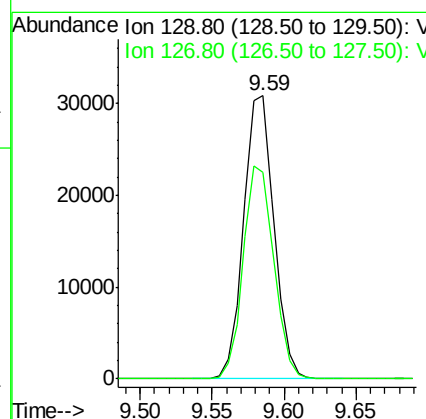
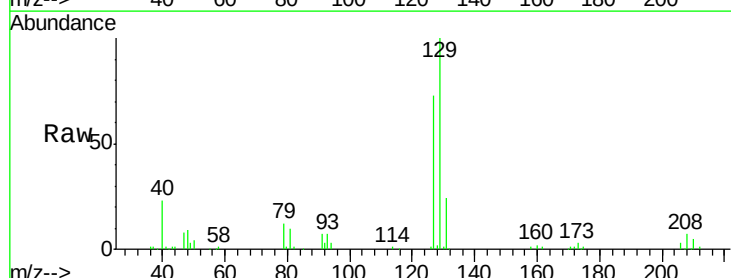
Manual Integrations
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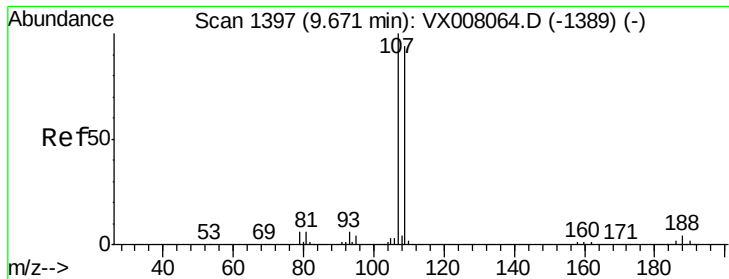
MMDadoda
3/16/2019 10:33:22 AM



#60
Dibromochloromethane
Concen: 18.254 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	129	Resp	45126
Ion Ratio	100	Lower	Upper
129	100		
127	75.7	38.3	114.8





#61

1,2-Dibromoethane

Concen: 18.523 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 107 Resp: 46553

Ion Ratio Lower Upper

107 100

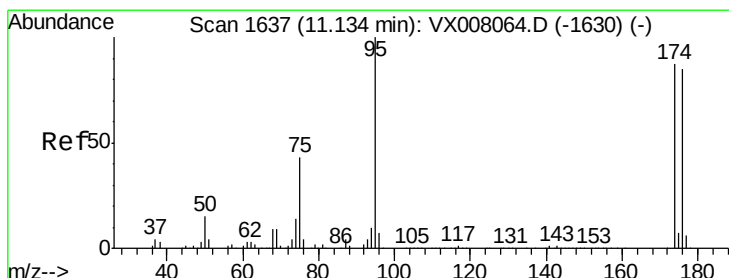
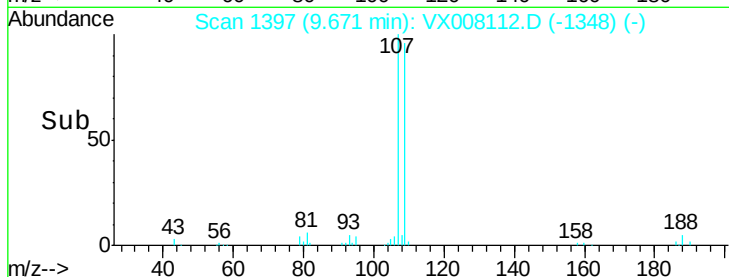
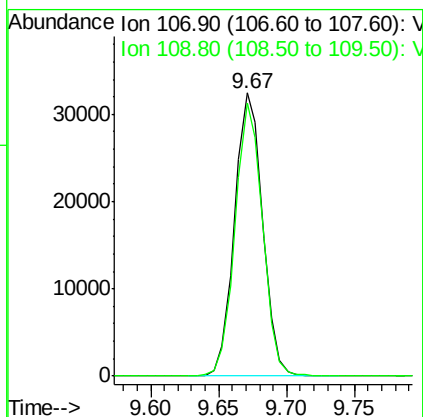
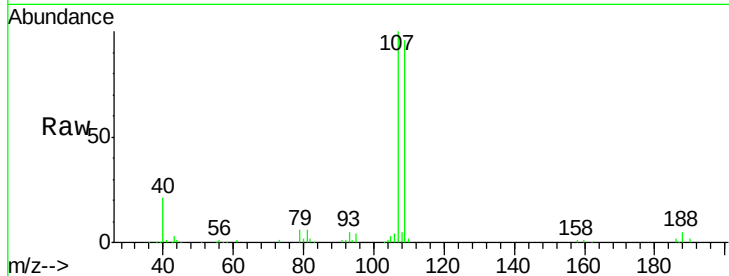
109 94.5 75.8 113.8

Manual Integrations

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MMDadoda

3/16/2019 10:33:22 AM



#62

4-Bromofluorobenzene

Concen: 45.726 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

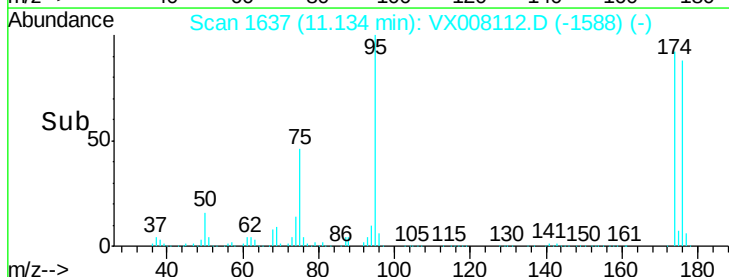
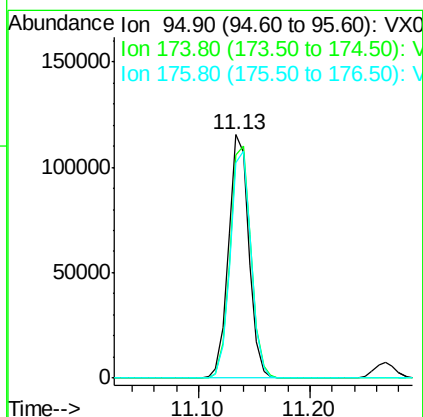
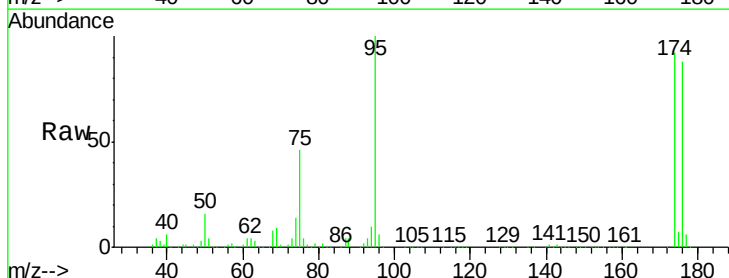
Tgt Ion: 95 Resp: 145271

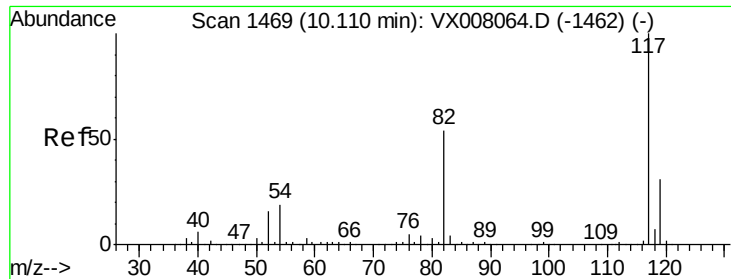
Ion Ratio Lower Upper

95 100

174 97.7 0.0 182.8

176 95.2 0.0 178.0





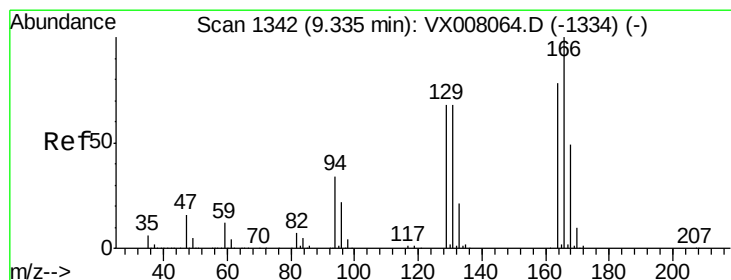
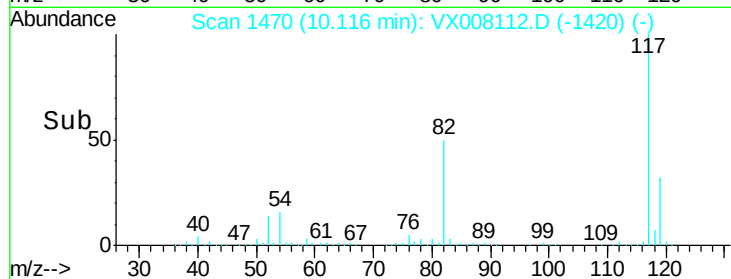
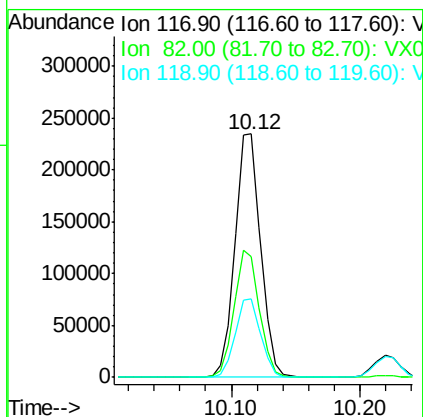
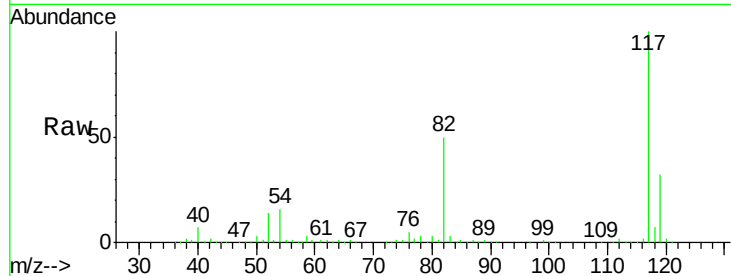
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.5	44.3	66.5
119	32.4	25.3	37.9

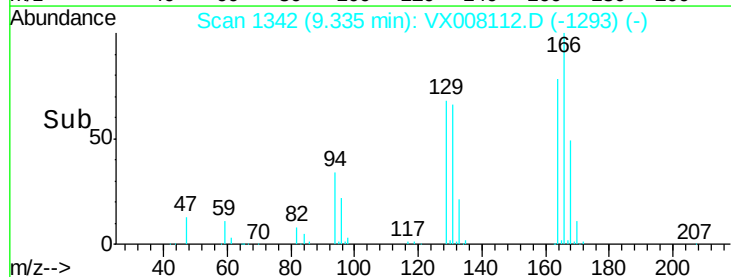
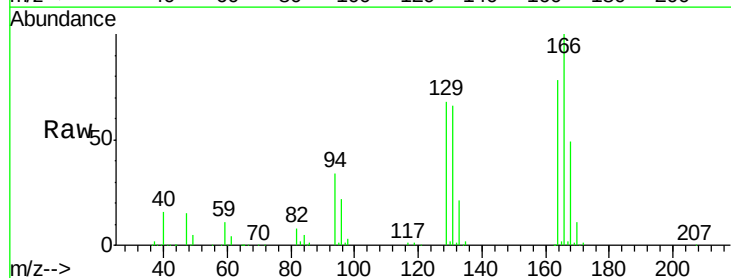
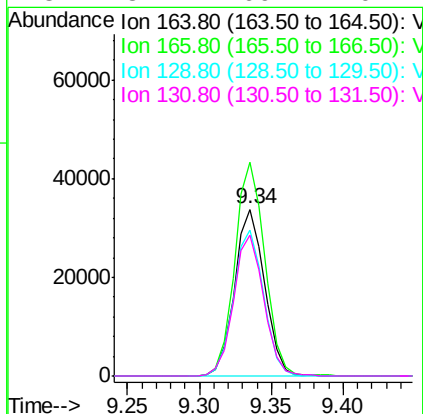
Manual Integrations
APPROVED

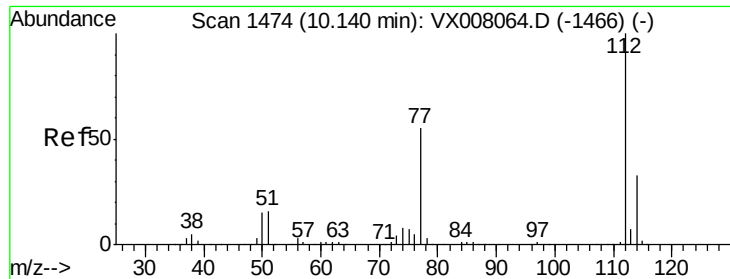
MMDadoda
3/16/2019 10:33:22 AM



#64
Tetrachloroethene
Concen: 18.548 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	103.4	155.0
129	87.5	72.2	108.4
131	84.4	69.4	104.2





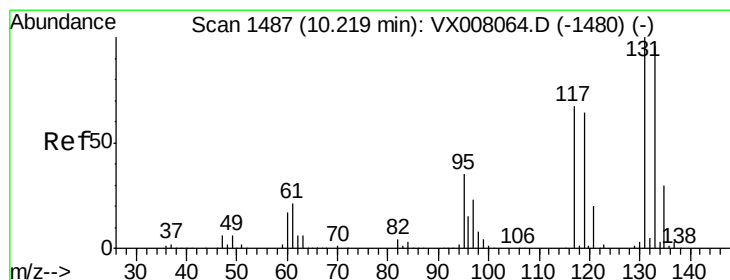
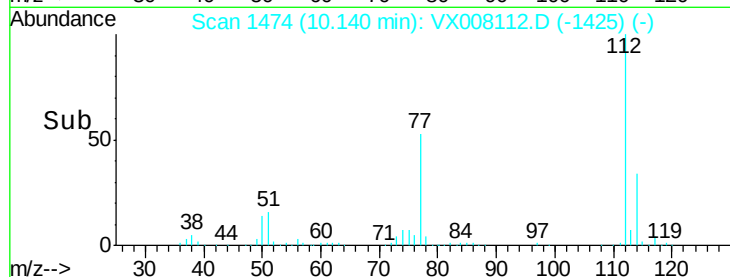
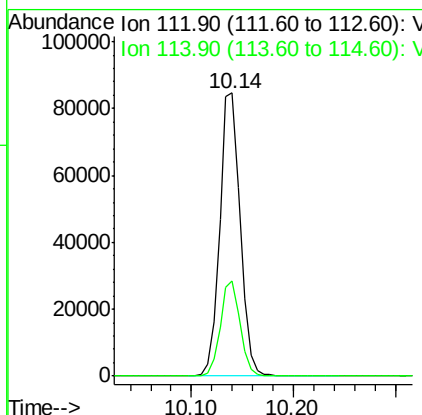
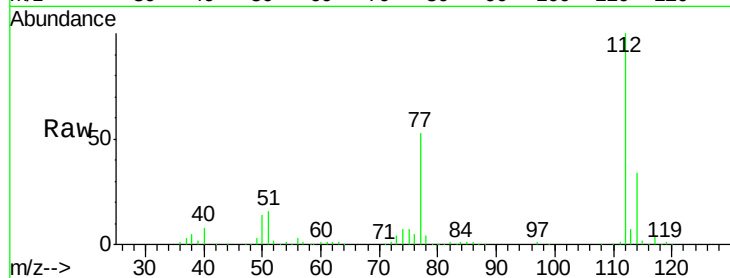
#65
Chlorobenzene
Concen: 18.401 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion:112 Resp: 119000
Ion Ratio Lower Upper
112 100
114 33.7 26.0 39.0

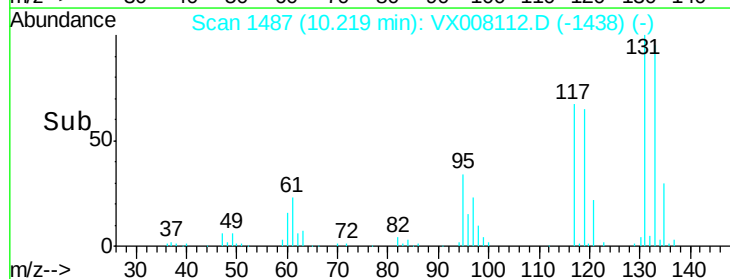
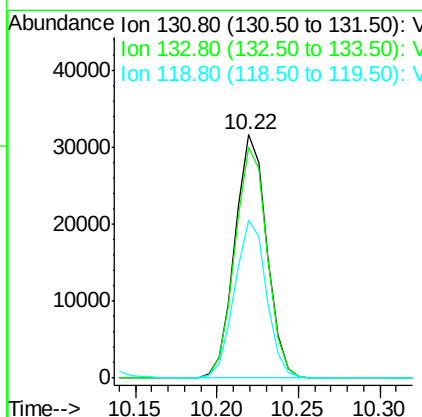
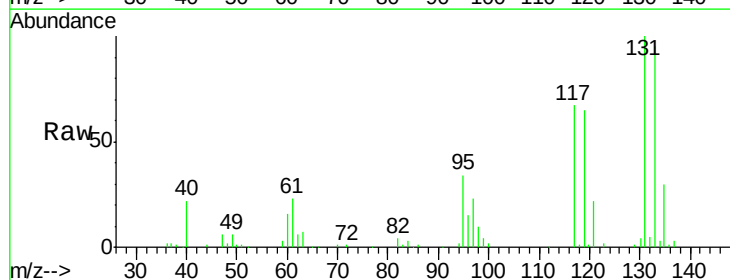
Manual Integrations
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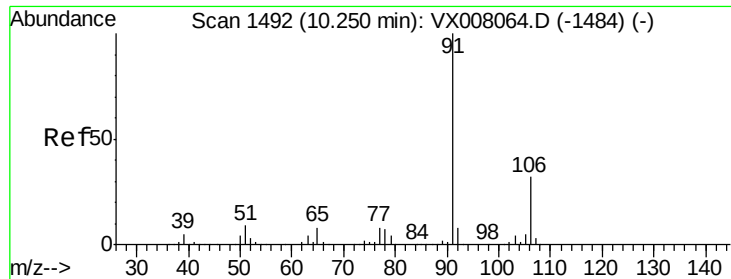
MMDadoda
3/16/2019 10:33:22 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.782 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion:131 Resp: 43108
Ion Ratio Lower Upper
131 100
133 96.1 47.8 143.3
119 65.1 32.5 97.5





#67

Ethyl Benzene

Concen: 17.989 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 91 Resp: 192565

Ion Ratio Lower Upper

91 100

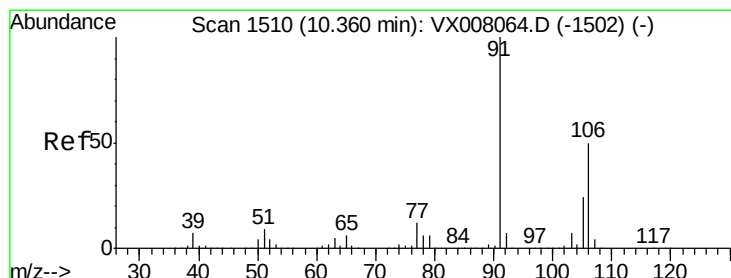
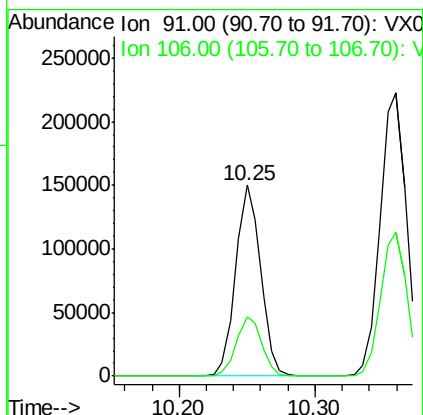
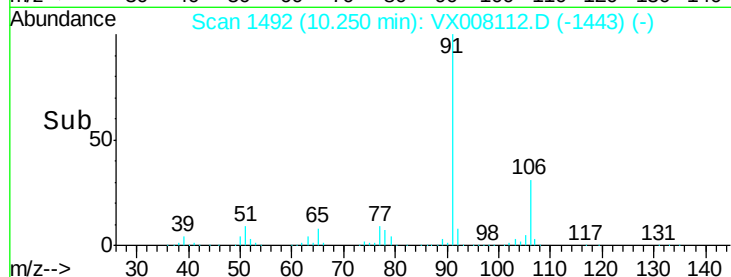
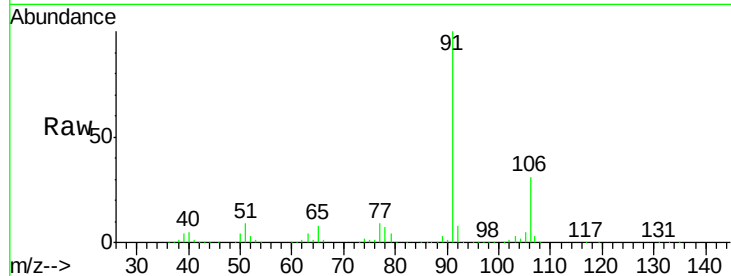
106 31.4 25.2 37.8

Manual Integrations

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#68

m/p-Xylenes

Concen: 37.089 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008112.D

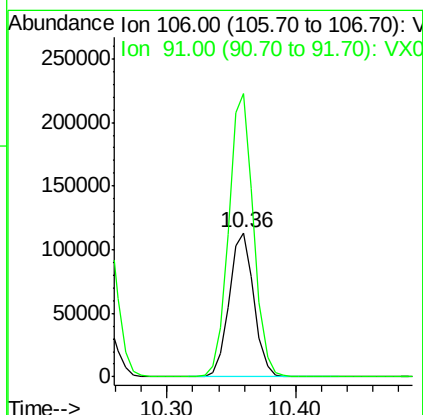
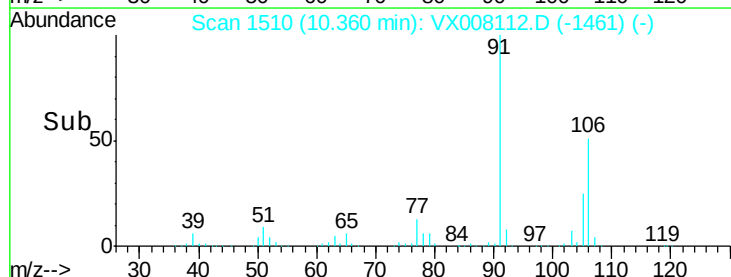
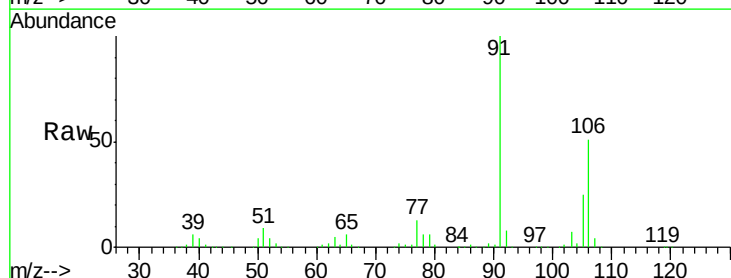
Acq: 15 Mar 2019 18:09

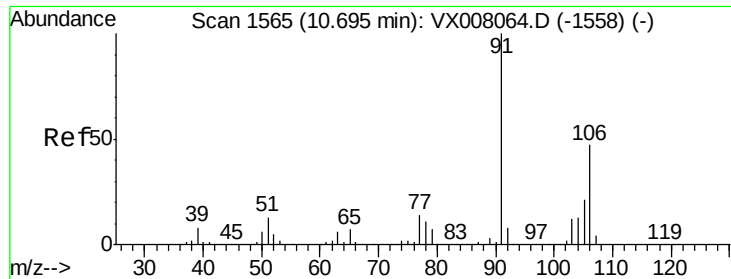
Tgt Ion: 106 Resp: 151918

Ion Ratio Lower Upper

106 100

91 197.3 159.8 239.6





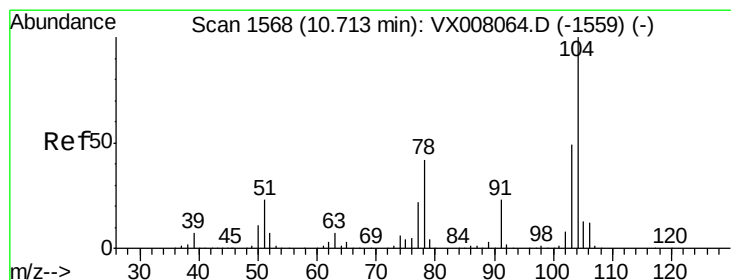
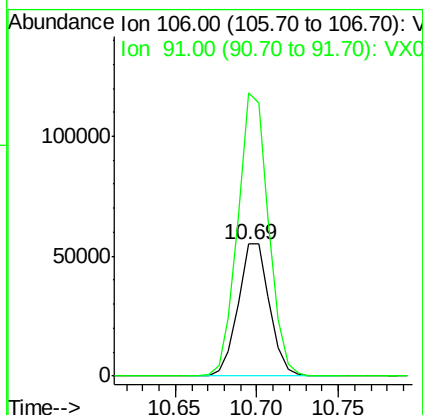
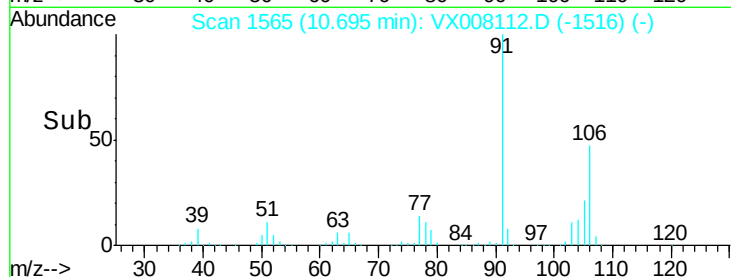
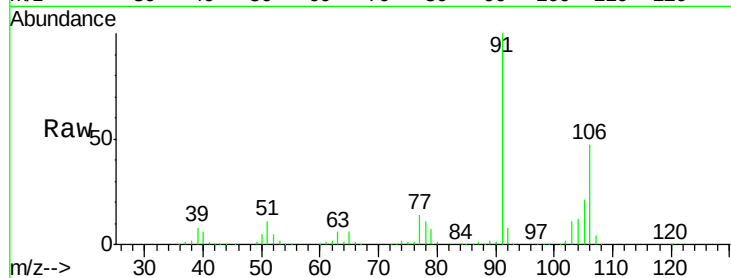
#69
o-Xylene
Concen: 18.561 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampled :
VX0315WBS02

Tot Ion:106 Resp: 74114
Ion Ratio Lower Upper
106 100
91 210.0 106.3 318.9

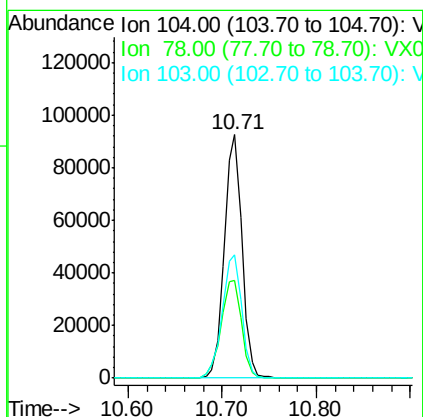
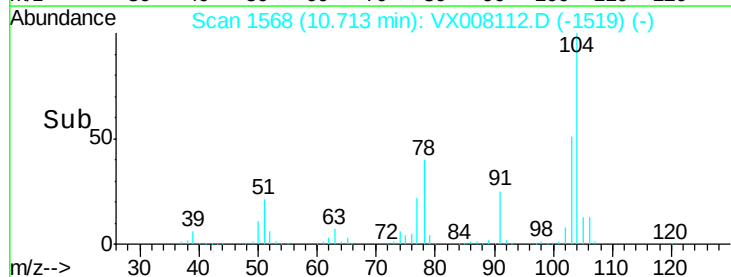
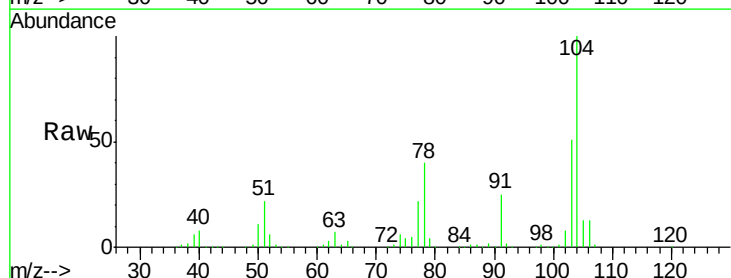
Manual Integrations
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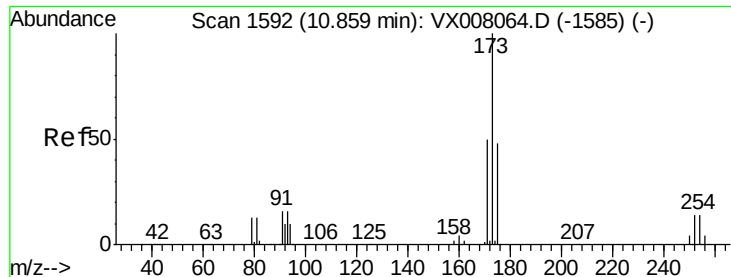
MMDadoda
3/16/2019 10:33:22 AM



#70
Styrene
Concen: 18.464 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion:104 Resp: 120777
Ion Ratio Lower Upper
104 100
78 46.3 38.5 57.7
103 55.9 44.1 66.1





#71

Bromoform

Concen: 19.055 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion:173 Resp: 36192

Ion Ratio Lower Upper

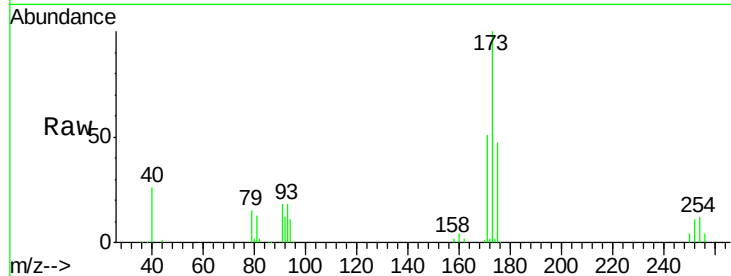
173 100

175 48.1 24.3 72.9

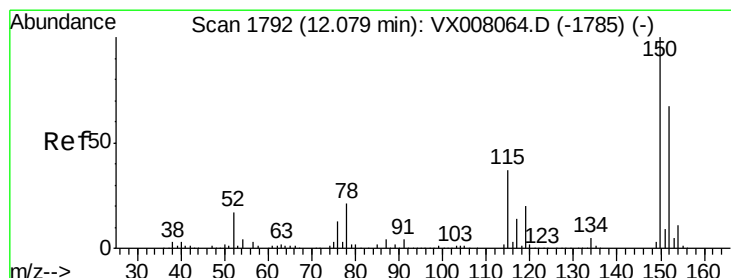
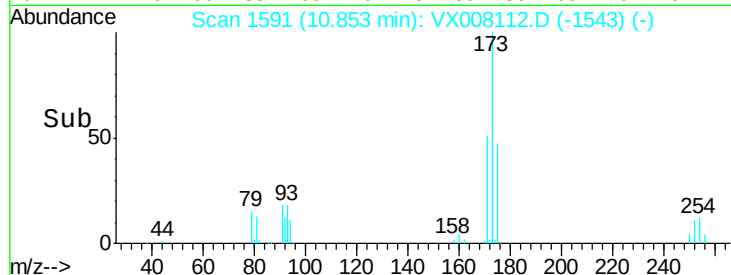
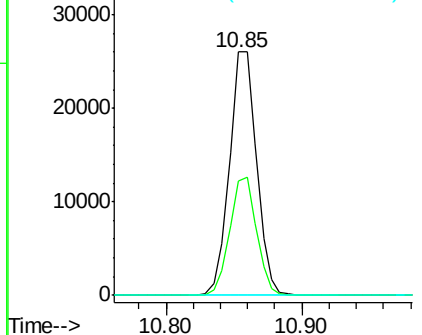
254 0.0 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

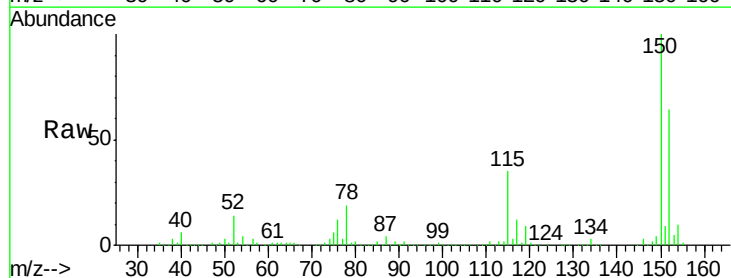
Tgt Ion:152 Resp: 166873

Ion Ratio Lower Upper

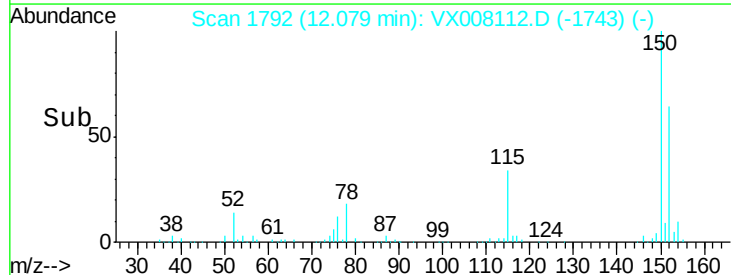
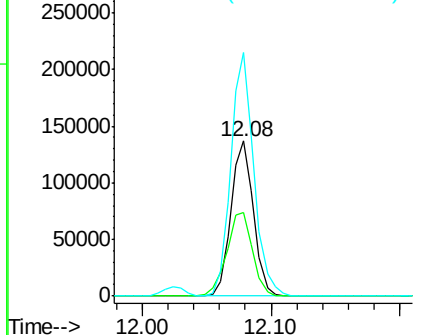
152 100

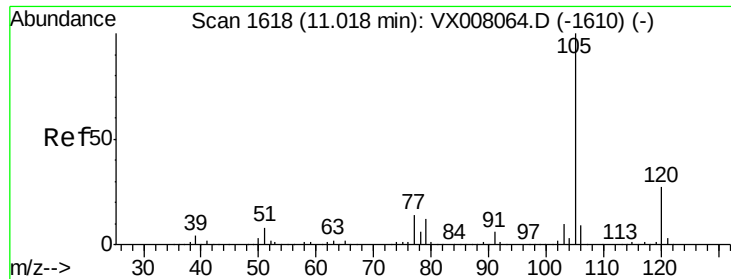
115 62.3 38.6 115.7

150 161.2 0.0 348.4



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: 18.740 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 105 Resp: 200295

Ion Ratio Lower Upper

105 100

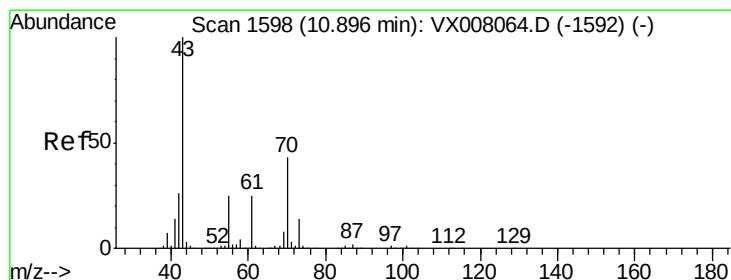
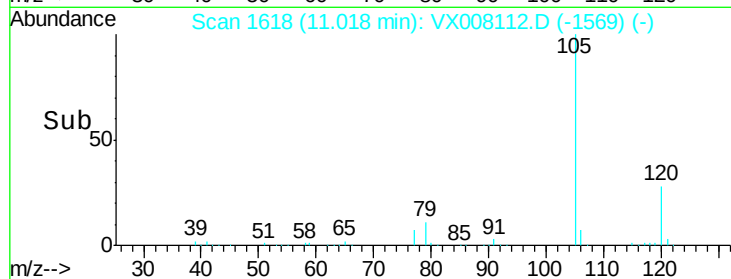
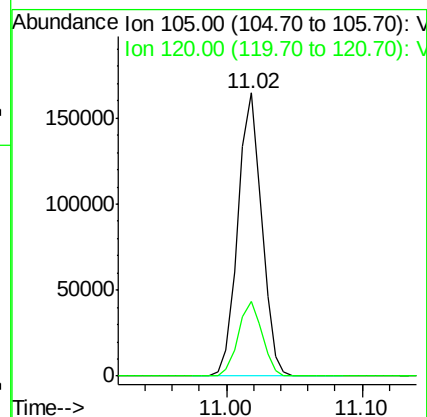
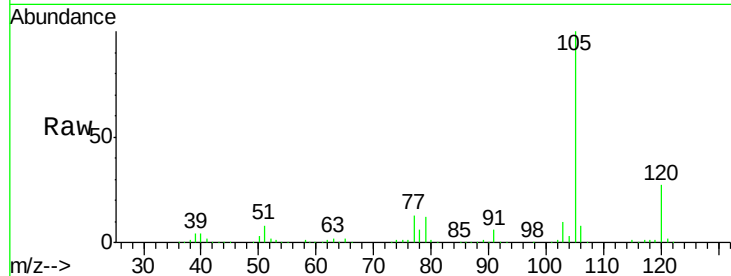
120 26.7 13.4 40.1

Manual Integrations

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3/16/2019 10:33:22 AM



#74

N-ethyl acetate

Concen: 16.807 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion: 43 Resp: 75776

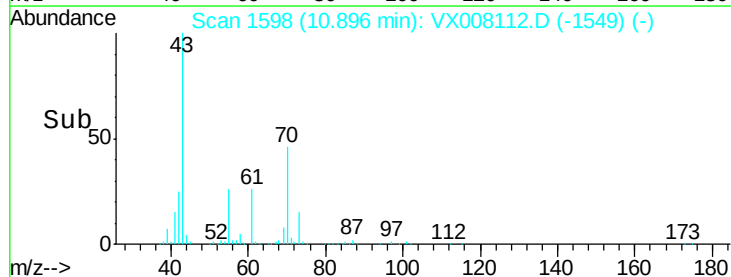
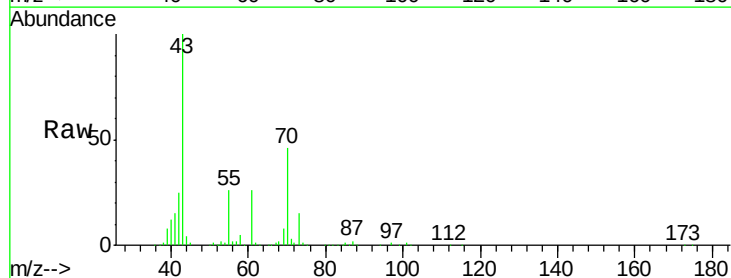
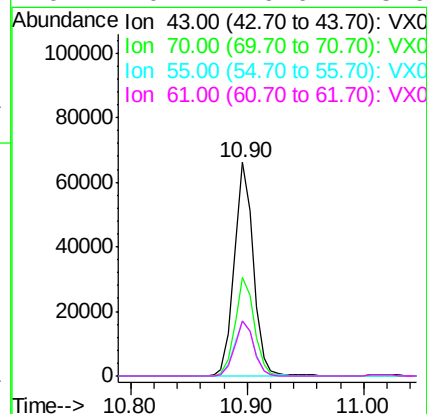
Ion Ratio Lower Upper

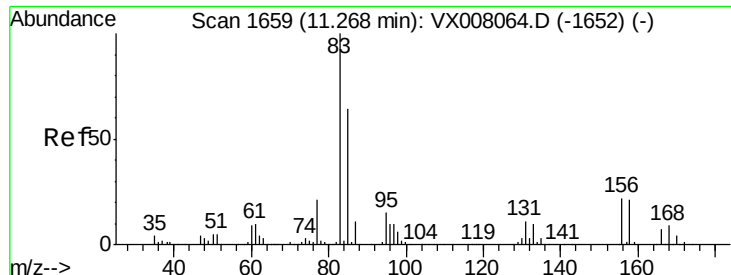
43 100

70 46.4 33.5 50.3

55 26.9 19.2 28.8

61 26.2 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.602 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

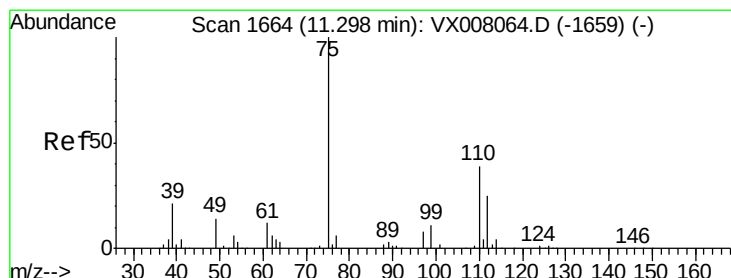
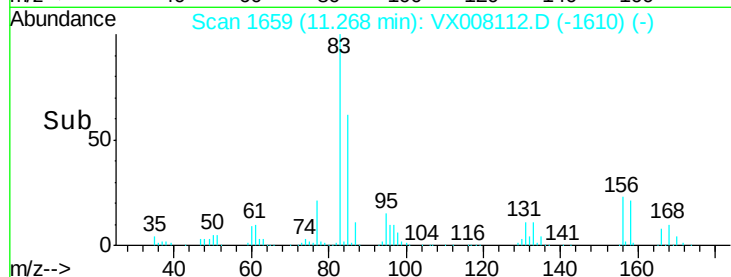
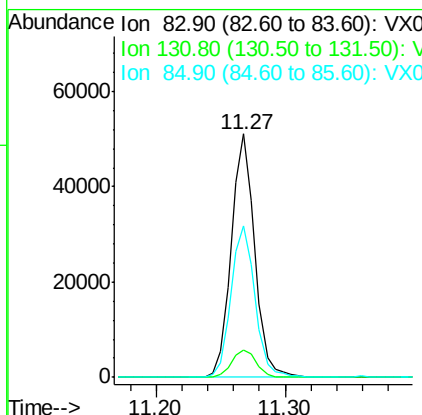
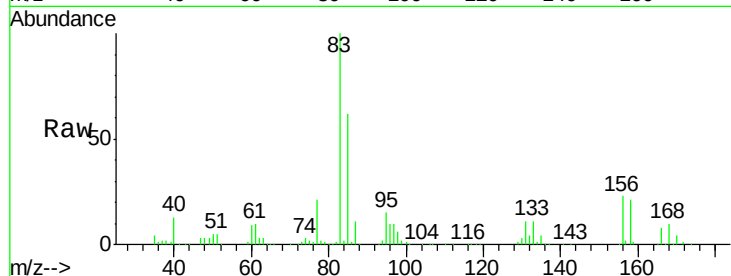
ClientSampleId :

VX0315WBS02

Tot Ion:	83	Resp:	65144
Ion Ratio	Lower	Upper	
83	100		
131	11.8	5.4	16.2
85	64.0	32.3	96.8

Manual Integrations
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3/16/2019 10:33:22 AM



#76

1,2,3-Trichloropropane

Concen: 21.530 ug/l m

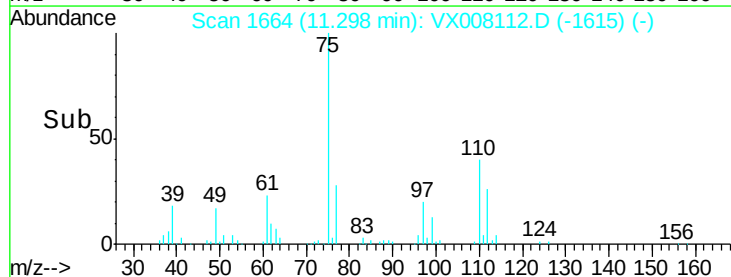
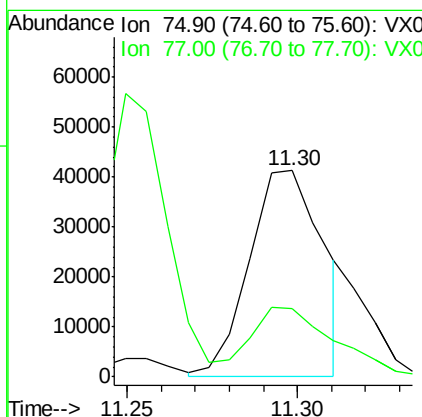
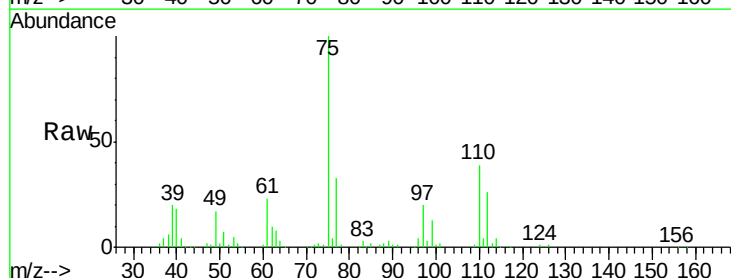
RT: 11.30 min Scan# 1664

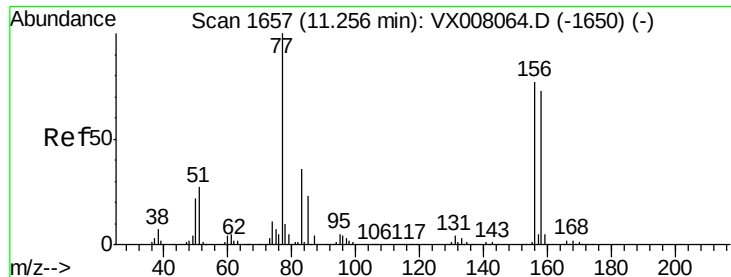
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	75	Resp:	62395
Ion Ratio	Lower	Upper	
75	100		
77	39.1	18.9	56.7





#77

Bromobenzene

Concen: 18.739 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion:156 Resp: 54668

Ion Ratio Lower Upper

156 100

77 133.3 72.0 215.9

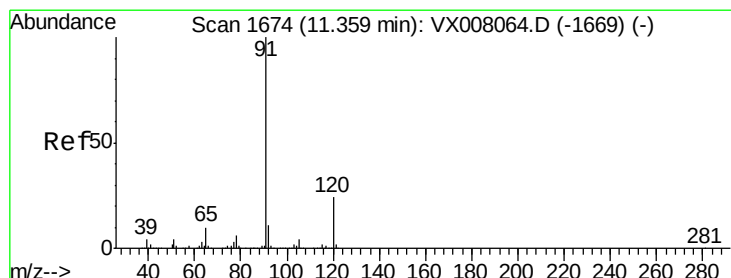
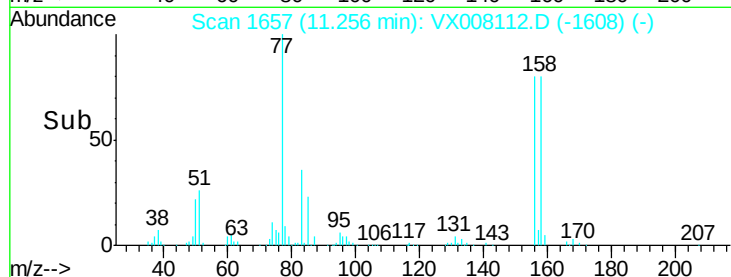
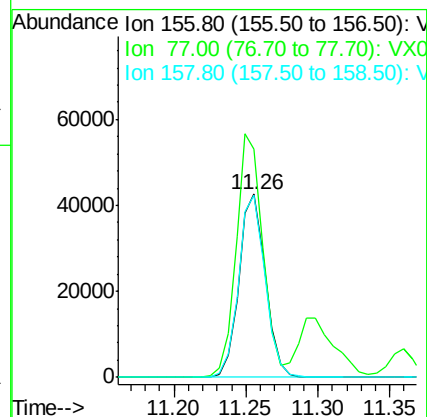
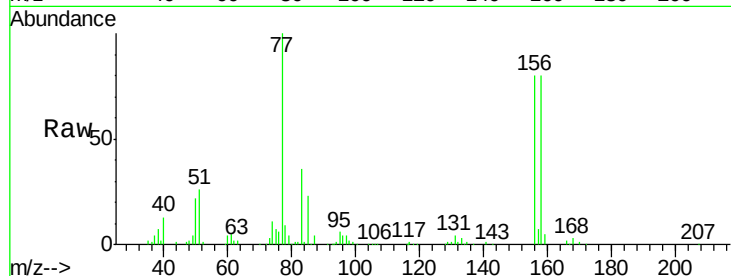
158 99.8 48.6 145.9

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#78

n-propylbenzene

Concen: 18.197 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008112.D

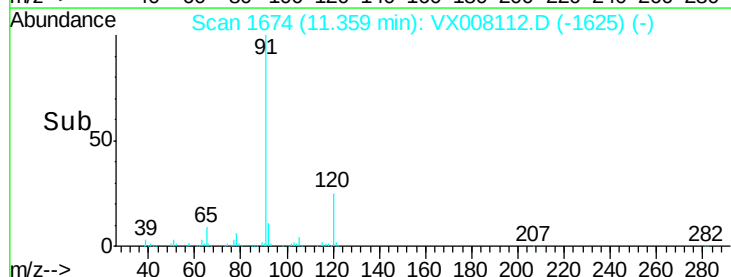
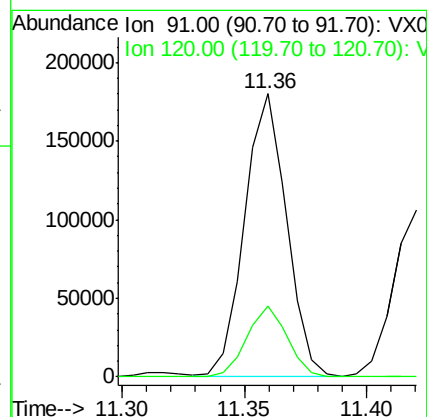
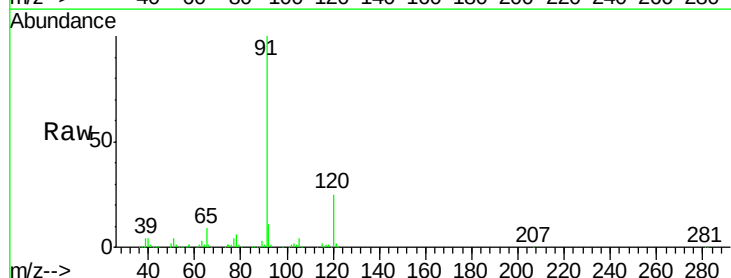
Acq: 15 Mar 2019 18:09

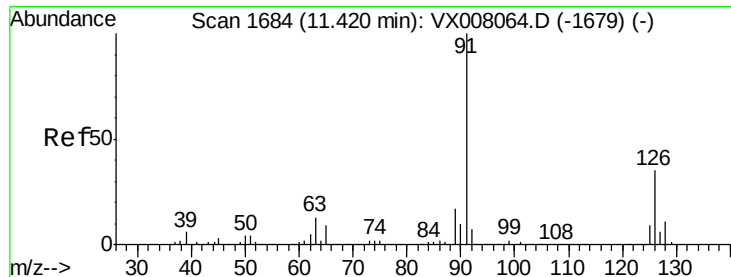
Tgt Ion: 91 Resp: 213374

Ion Ratio Lower Upper

91 100

120 24.4 12.0 36.0





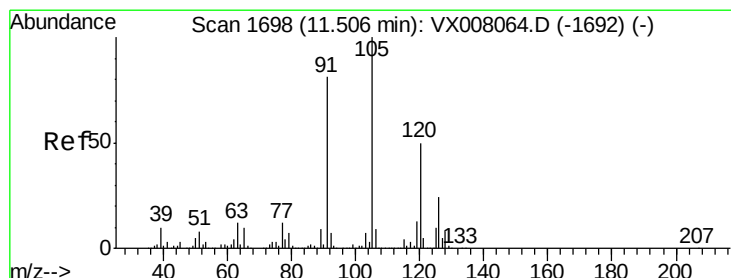
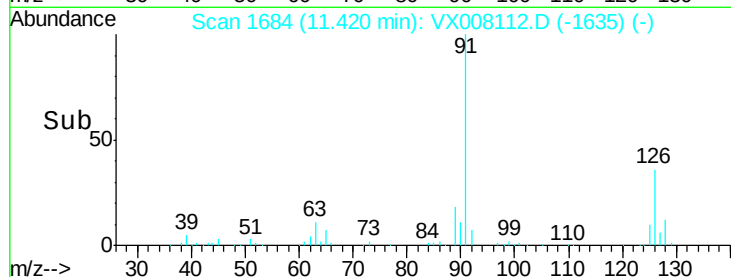
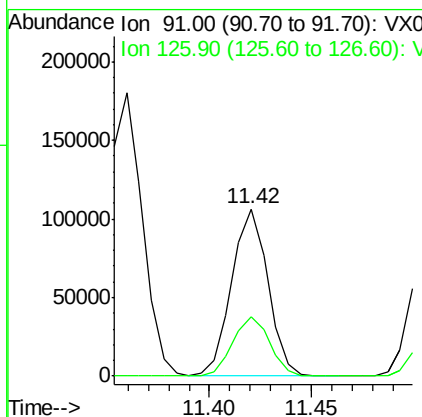
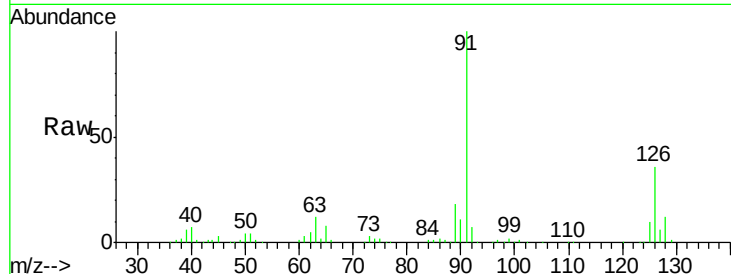
#79
2-Chlorotoluene
Concen: 18.211 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBS02

Tot Ion: 91 Resp: 130413
Ion Ratio Lower Upper
91 100
126 36.4 17.5 52.6

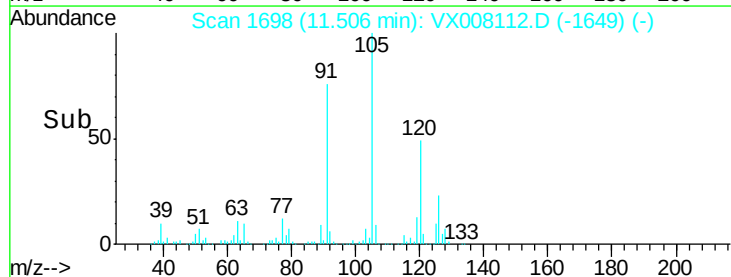
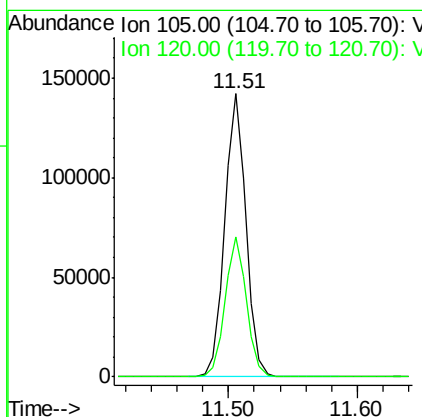
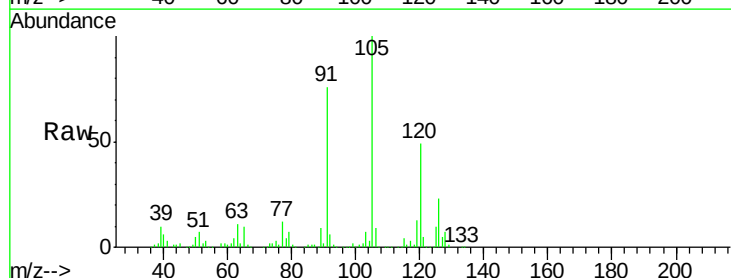
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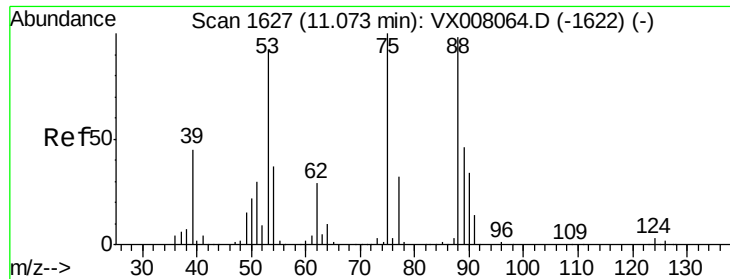
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 18.771 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX008112.D
Acq: 15 Mar 2019 18:09

Tgt Ion: 105 Resp: 165317
Ion Ratio Lower Upper
105 100
120 49.7 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 17.867 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion: 75 Resp: 18196

Ion Ratio Lower Upper

75 100

53 96.9 76.1 114.1

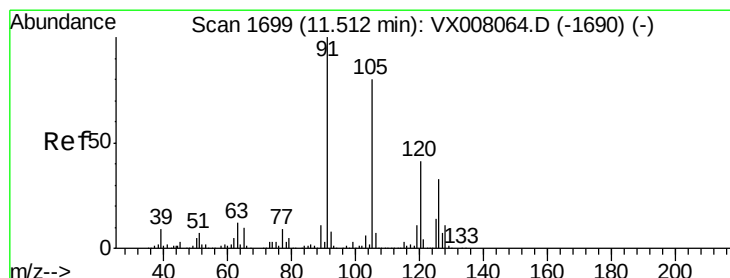
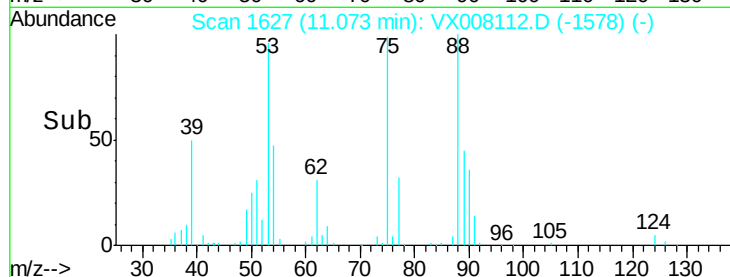
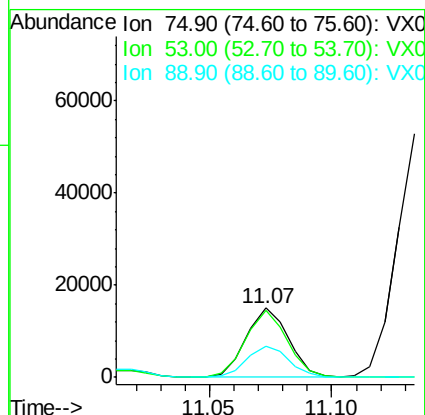
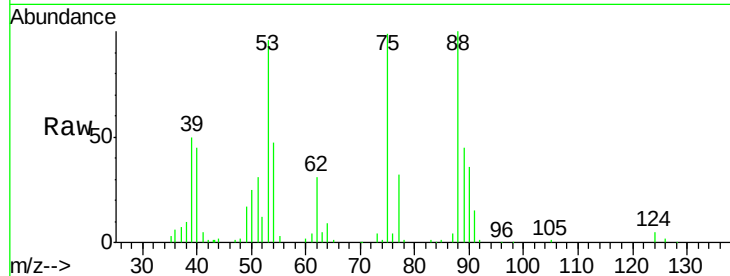
89 46.0 36.3 54.5

Manual Integrations

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#82

4-Chlorotoluene

Concen: 18.123 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX008112.D

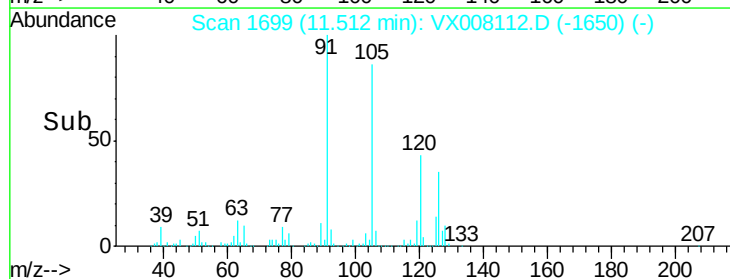
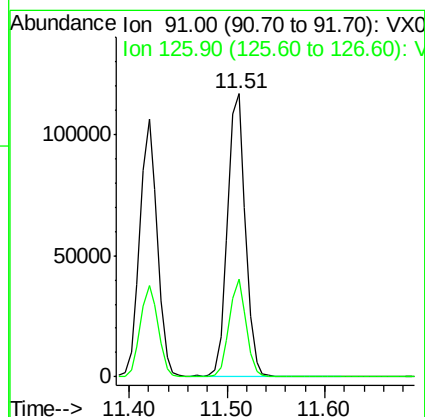
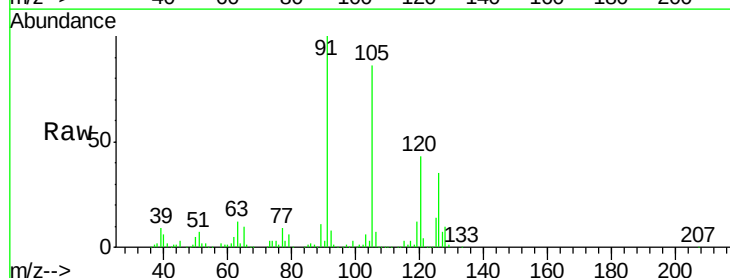
Acq: 15 Mar 2019 18:09

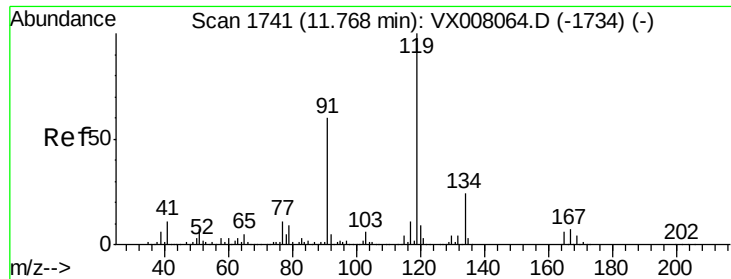
Tgt Ion: 91 Resp: 148636

Ion Ratio Lower Upper

91 100

126 32.8 15.6 46.8





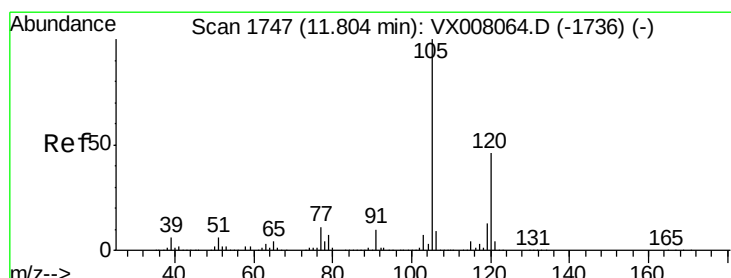
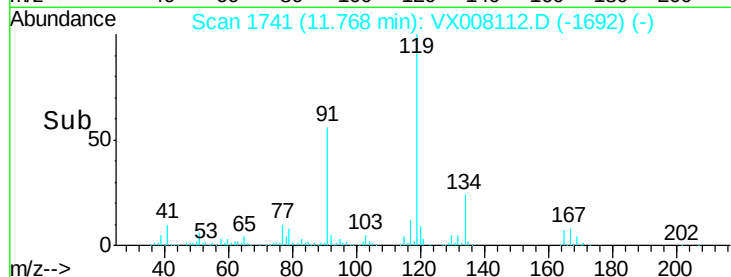
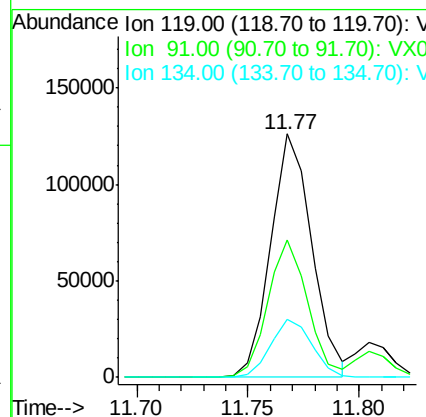
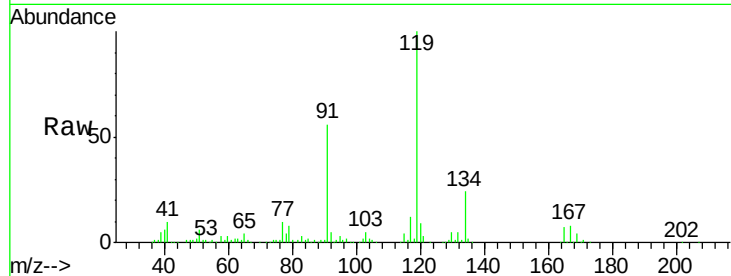
#83
 tert-Butylbenzene
 Concen: 18.401 ug/l
 RT: 11.77 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	162404		
91	54.4	27.1	81.3	
134	23.9	11.4	34.1	

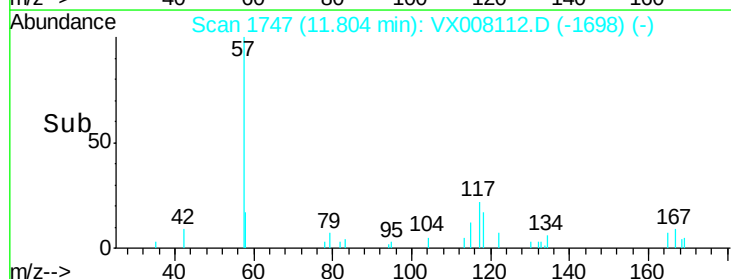
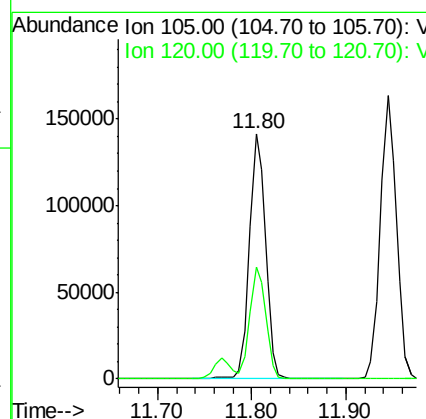
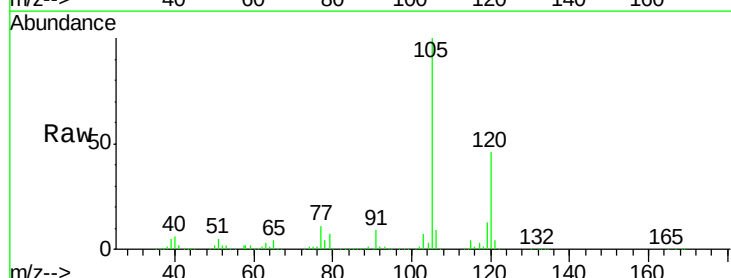
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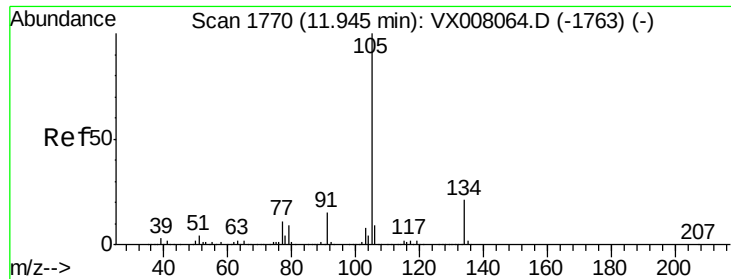
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#84
 1,2,4-Trimethylbenzene
 Concen: 18.663 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	169549		
120	45.3	22.6	67.7	





#85

sec-Butylbenzene

Concen: 18.519 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampled :

VX0315WBS02

Tot Ion:105 Resp: 194739

Ion Ratio Lower Upper

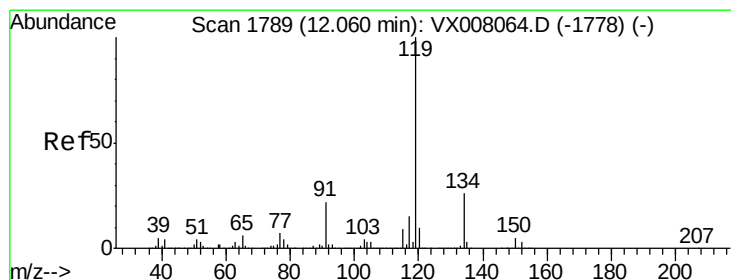
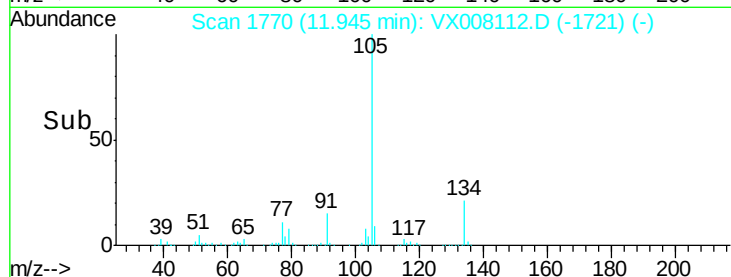
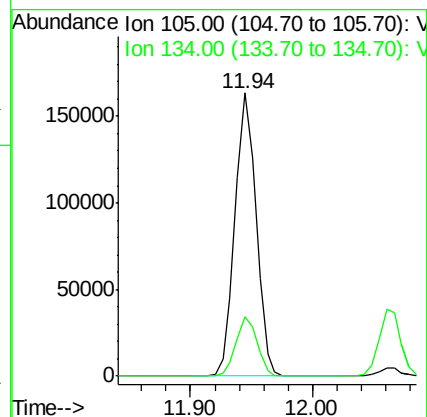
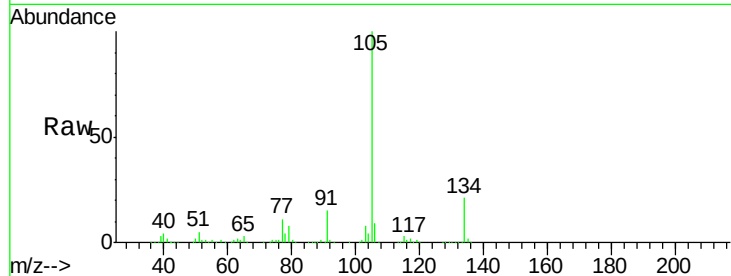
105 100

134 20.9 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 18.563 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

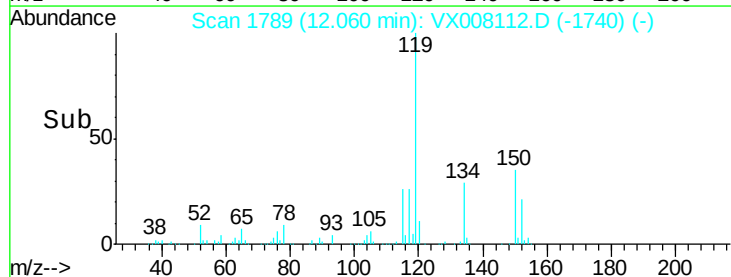
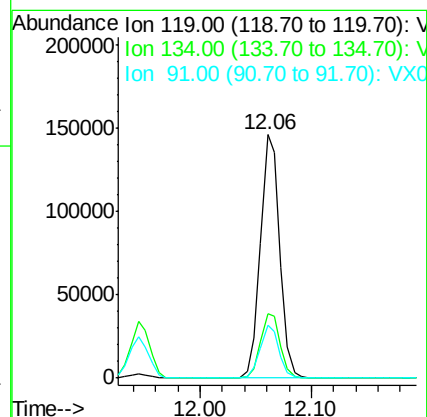
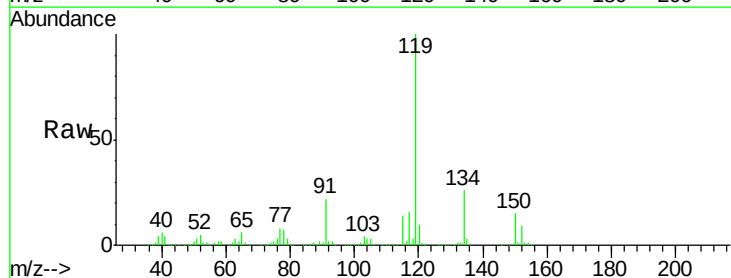
Tgt Ion:119 Resp: 176533

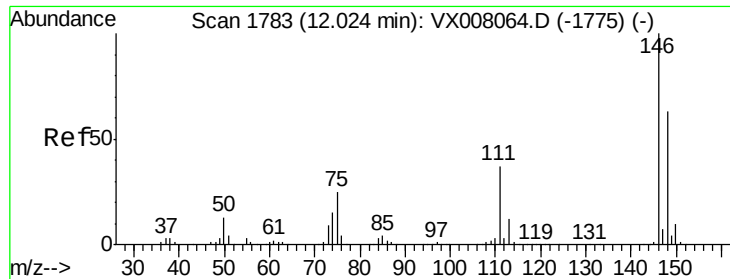
Ion Ratio Lower Upper

119 100

134 26.9 13.3 39.9

91 21.4 10.9 32.7





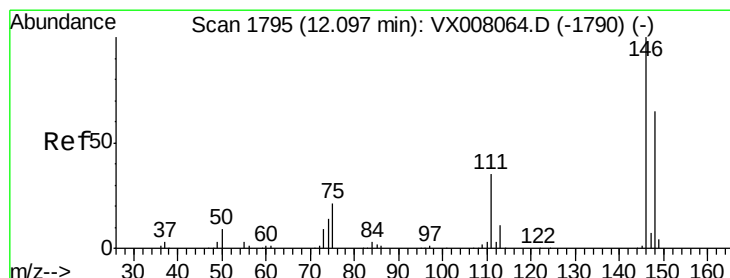
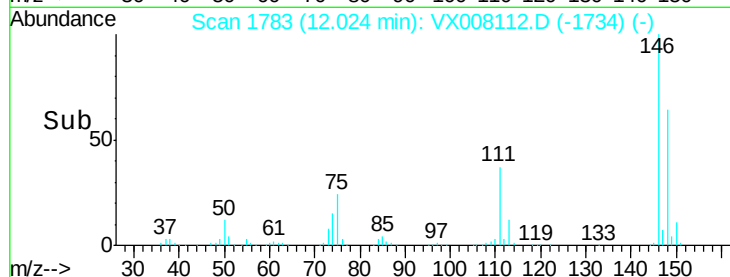
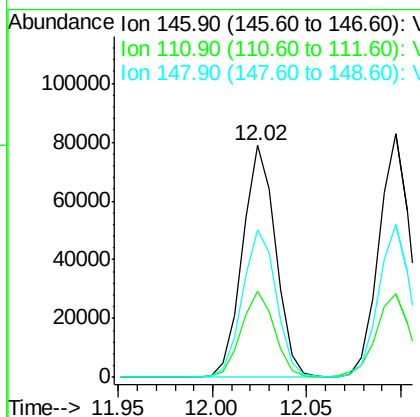
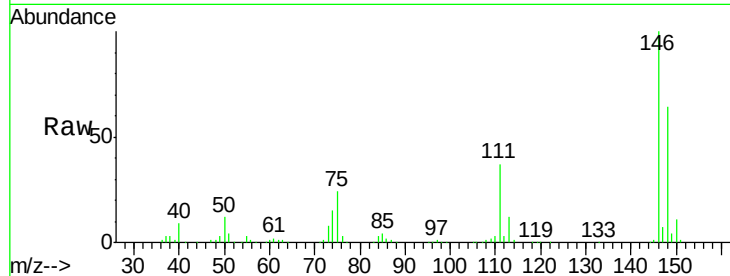
#87
 1,3-Dichlorobenzene
 Concen: 18.592 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.9	56.7
148	64.4	31.7	95.1

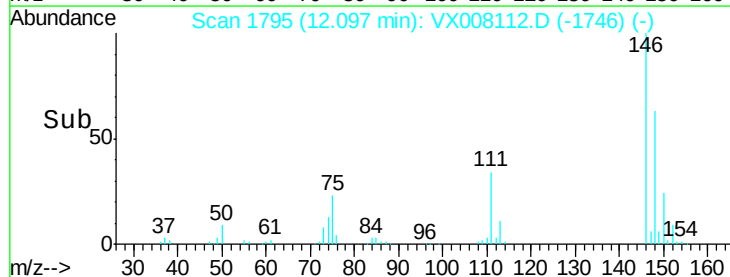
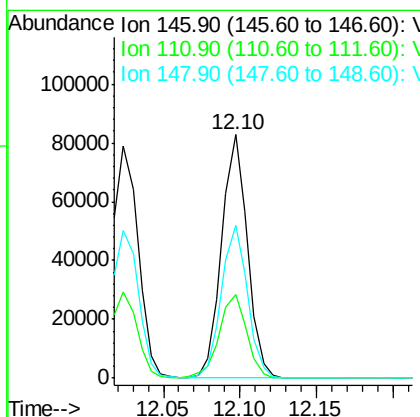
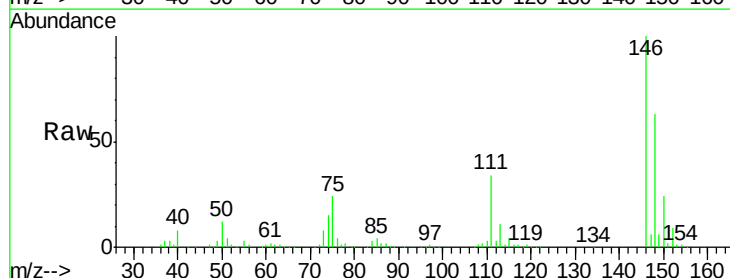
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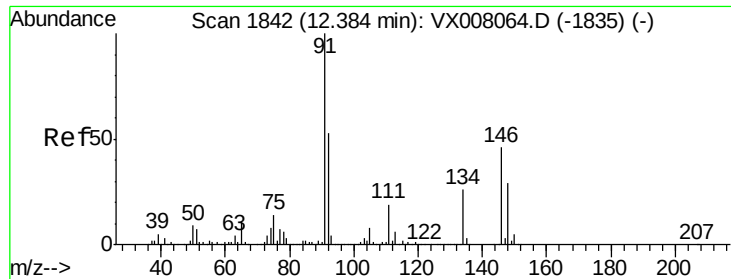
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#88
 1,4-Dichlorobenzene
 Concen: 18.372 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.4	55.0
148	64.0	32.2	96.6





#89

n-Butylbenzene

Concen: 17.484 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

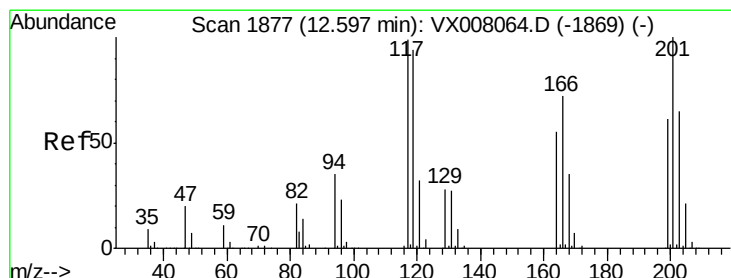
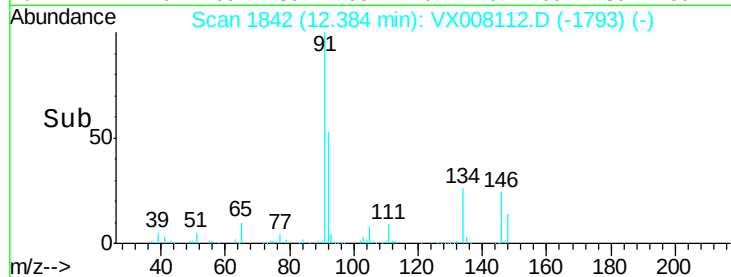
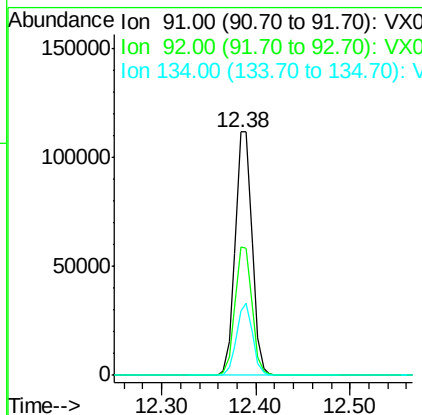
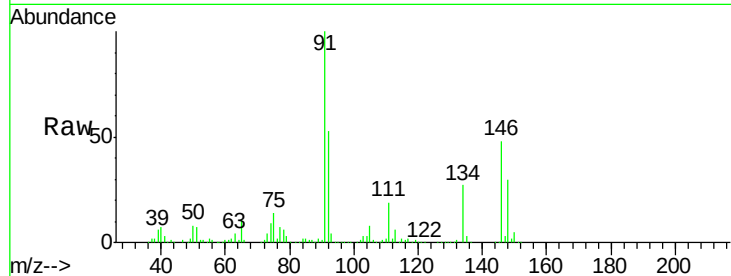
ClientSampleId :

VX0315WBS02

Tot Ion:	91	Resp:	139128
Ion Ratio		Lower	Upper
91	100		
92	52.7	27.0	80.8
134	28.1	13.7	41.0

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#90

Hexachloroethane

Concen: 17.522 ug/l

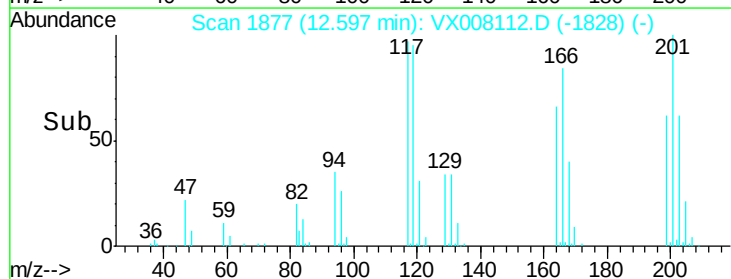
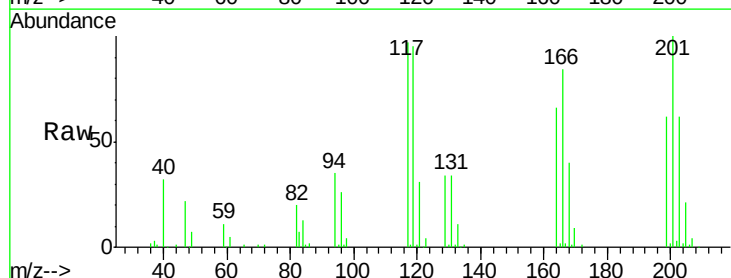
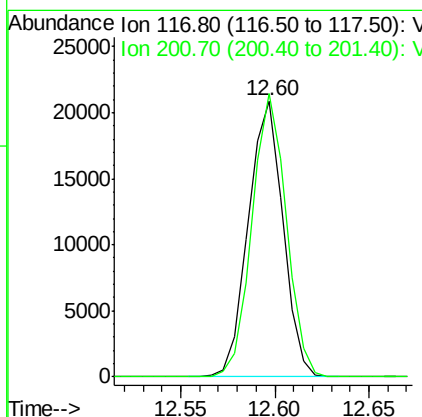
RT: 12.60 min Scan# 1877

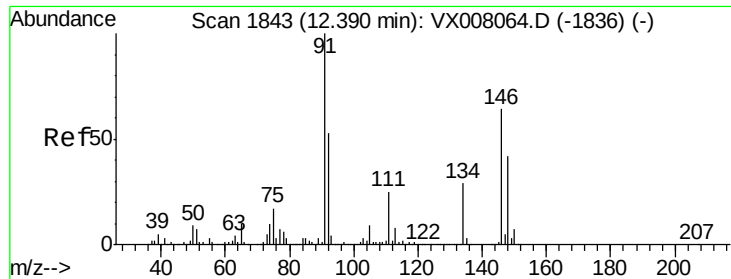
Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	117	Resp:	26669
Ion Ratio		Lower	Upper
117	100		
201	101.1	48.9	146.7





#91

1,2-Dichlorobenzene

Concen: 18.961 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBS02

Tot Ion:146 Resp: 97673

Ion Ratio Lower Upper

146 100

111 37.6 19.6 58.8

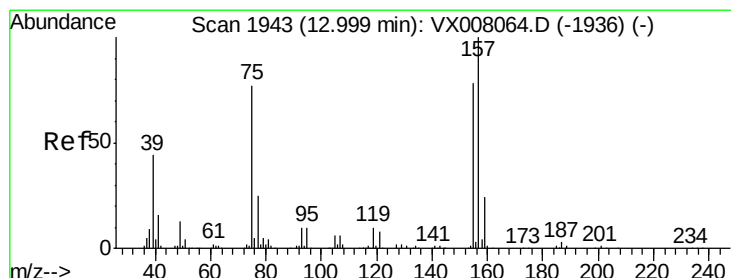
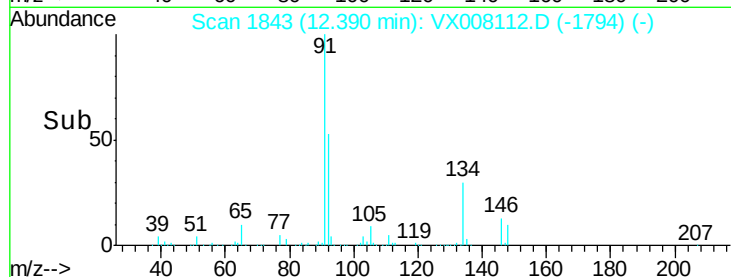
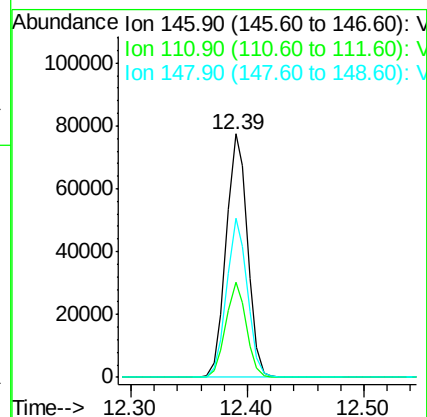
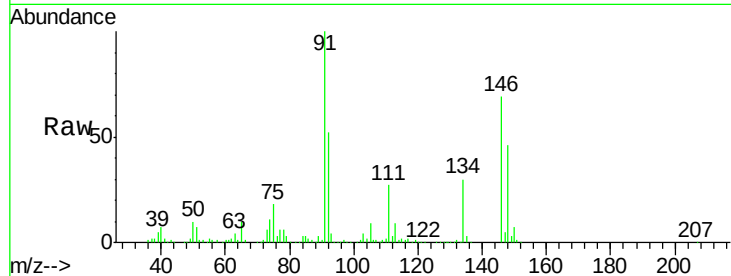
148 63.6 31.9 95.5

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#92

1,2-Dibromo-3-Chloropropane

Concen: 19.047 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

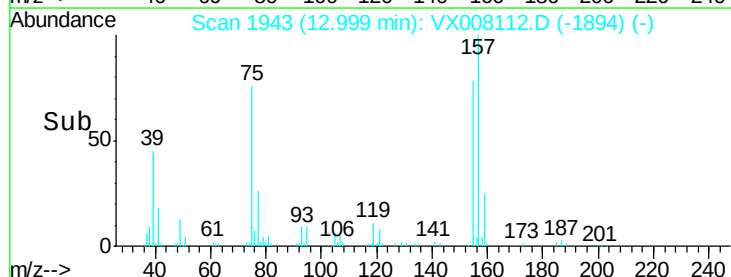
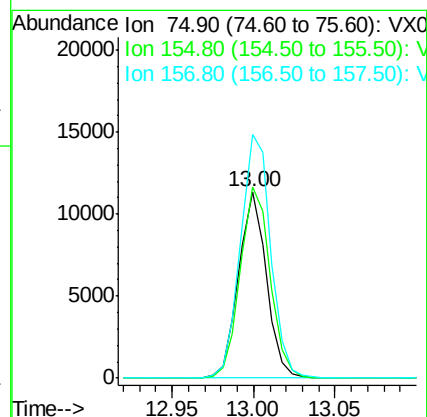
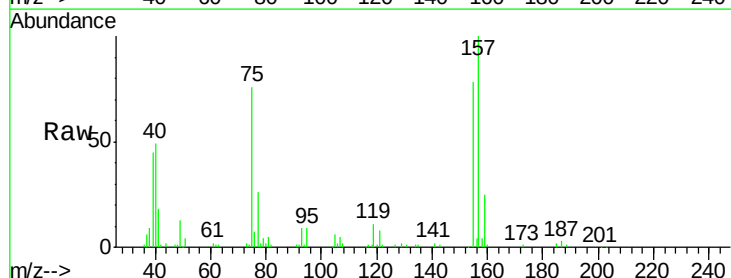
Tgt Ion: 75 Resp: 13486

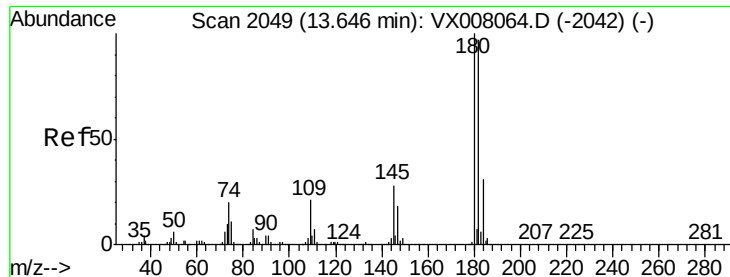
Ion Ratio Lower Upper

75 100

155 110.0 49.7 149.1

157 141.8 63.8 191.4





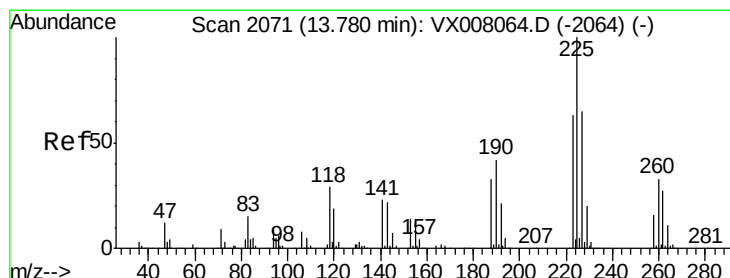
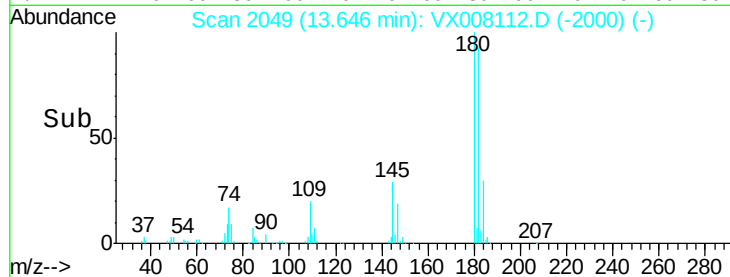
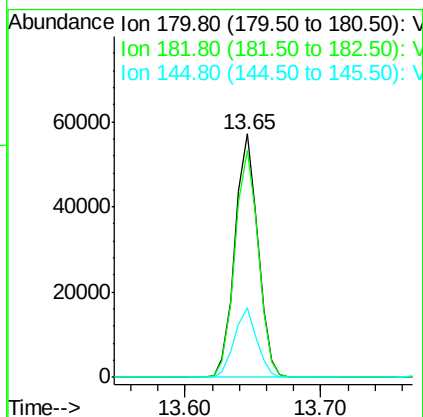
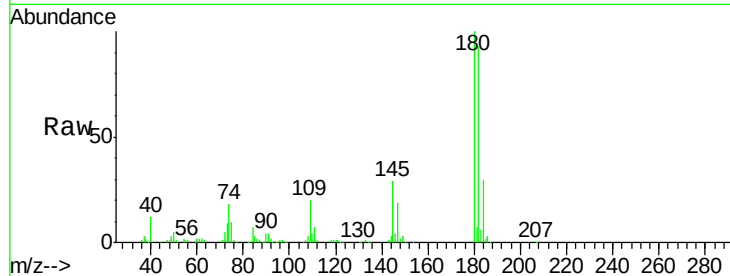
#93
 1,2,4-Trichlorobenzene
 Concen: 18.505 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	67525		
182	94.8	47.9	143.7	
145	28.1	14.1	42.4	

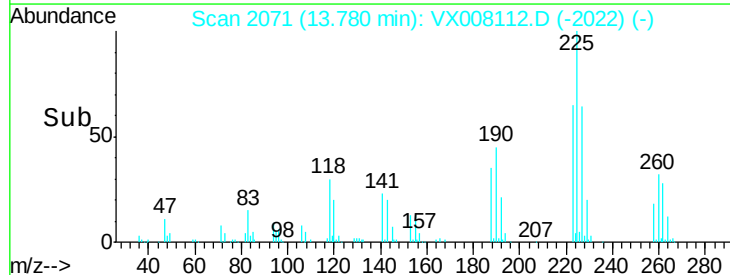
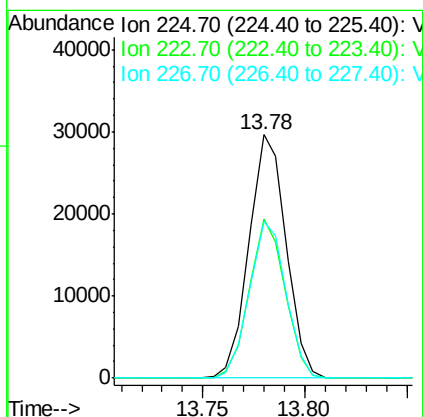
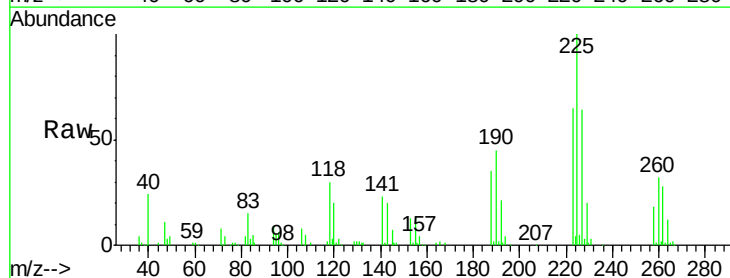
Manual Integrations
 APPROVED

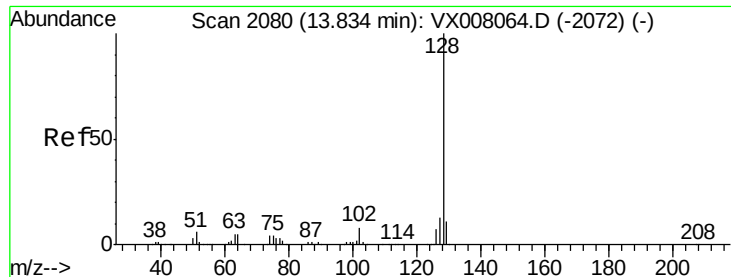
MMDadoda
 3/16/2019 10:33:22 AM



#94
 Hexachlorobutadiene
 Concen: 18.929 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VX008112.D
 Acq: 15 Mar 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	37526		
223	62.9	31.1	93.2	
227	63.5	32.0	96.0	





#95

Naphthalene

Concen: 19.492 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Instrument :

MSVOA_X

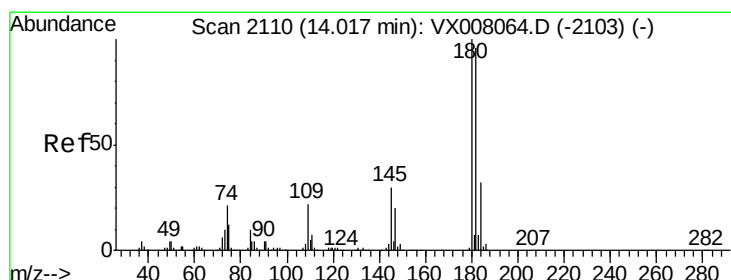
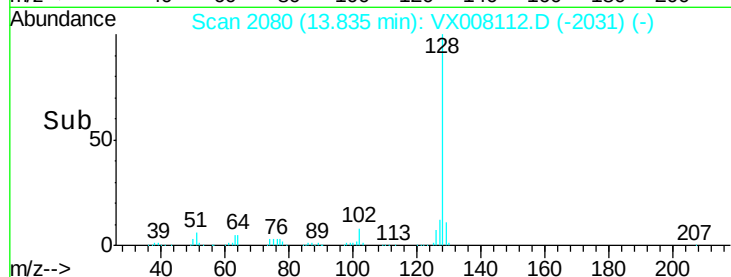
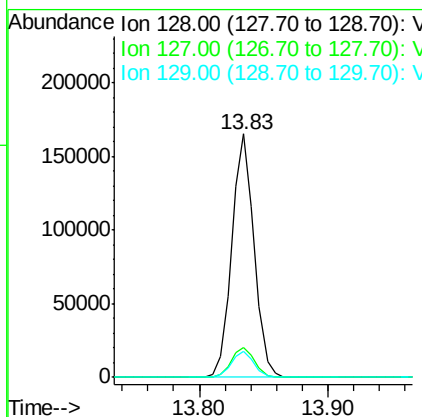
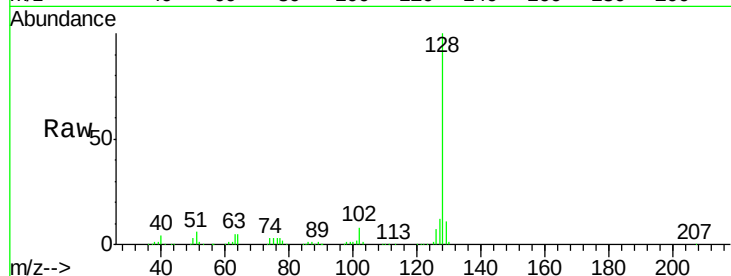
ClientSampleId :

VX0315WBS02

Tot Ion:	128	Resp:	199994
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/16/2019 10:33:22 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.173 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX008112.D

Acq: 15 Mar 2019 18:09

Tgt Ion:	180	Resp:	68871
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.5	142.5
145	29.6	14.8	44.3

