

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008117.D
 Acq On : 15 Mar 2019 20:23
 Operator : JC/SP
 Sample : VX0315WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 10:33:28 AM

Quant Time: Mar 16 01:49:53 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	262788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	368775	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166794	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	123649	46.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.30%	
35) Dibromofluoromethane	5.51	113	114501	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
50) Toluene-d8	8.71	98	427453	48.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.12%	
62) 4-Bromofluorobenzene	11.13	95	147437	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	35180	16.724	ug/l	97
3) Chloromethane	1.33	50	32195	12.999	ug/l	100
4) Vinyl Chloride	1.41	62	34014	14.393	ug/l	99
5) Bromomethane	1.64	94	21168	17.420	ug/l	99
6) Chloroethane	1.73	64	20932	15.983	ug/l	100
7) Trichlorofluoromethane	1.93	101	47036	16.583	ug/l	99
8) Diethyl Ether	2.19	74	25107	17.807	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	37333	17.611	ug/l	94
10) Methyl Iodide	2.51	142	55945	18.891	ug/l	97
11) Tert butyl alcohol	3.07	59	49138	95.946	ug/l	99
12) 1,1-Dichloroethene	2.38	96	36421	18.178	ug/l	89
13) Acrolein	2.30	56	34429	72.982	ug/l	100
14) Allyl chloride	2.73	41	61105	16.744	ug/l	96
15) Acrylonitrile	3.15	53	112579	90.147	ug/l	99
16) Acetone	2.45	43	95575	76.370	ug/l	96
17) Carbon Disulfide	2.57	76	100573	17.482	ug/l	99
18) Methyl Acetate	2.78	43	51985	19.219	ug/l	94
19) Methyl tert-butyl Ether	3.21	73	120929	17.851	ug/l	97
20) Methylene Chloride	2.86	84	39356	17.608	ug/l	91
21) trans-1,2-Dichloroethene	3.17	96	38744	17.947	ug/l	90
22) Diisopropyl ether	3.88	45	127021	17.514	ug/l	93
23) Vinyl Acetate	3.82	43	540050	87.556	ug/l	96
24) 1,1-Dichloroethane	3.70	63	71533	17.993	ug/l	98
25) 2-Butanone	4.70	43	162767	84.733	ug/l	93
26) 2,2-Dichloropropane	4.59	77	47415	15.611	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	45894	17.884	ug/l	93
28) Bromochloromethane	5.01	49	37237	19.831	ug/l	84
29) Tetrahydrofuran	5.16	42	105754	88.190	ug/l	92
30) Chloroform	5.21	83	71835	17.838	ug/l	99
31) Cyclohexane	5.57	56	62666	16.533	ug/l	91
32) 1,1,1-Trichloroethane	5.49	97	60664	17.884	ug/l	97
36) 1,1-Dichloropropene	5.80	75	52673	17.362	ug/l	98
37) Ethyl Acetate	4.86	43	59449	18.232	ug/l	96
38) Carbon Tetrachloride	5.78	117	53686	18.385	ug/l	97

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	65437	16.874	ug/l	97
40) Benzene	6.14	78	167564	18.029	ug/l	100
41) Methacrylonitrile	5.07	41	33188	17.482	ug/l	94
42) 1,2-Dichloroethane	6.20	62	54319	18.270	ug/l	99
43) Isopropyl Acetate	6.46	43	89843	17.109	ug/l	97
44) Trichloroethene	7.21	130	47991	17.892	ug/l	95
45) 1,2-Dichloropropane	7.52	63	42704	17.416	ug/l	99
46) Dibromomethane	7.66	93	28599	18.609	ug/l	95
47) Bromodichloromethane	7.90	83	51393	17.584	ug/l	99
48) Methyl methacrylate	7.77	41	48070	17.528	ug/l	96
49) 1,4-Dioxane	7.75	88	22890	386.980	ug/l	96
51) 4-Methyl-2-Pentanone	8.65	43	302985	87.547	ug/l	96
52) Toluene	8.79	92	103377	17.498	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	53545	16.712	ug/l	100
54) cis-1,3-Dichloropropene	8.44	75	60979	17.125	ug/l	95
55) 1,1,2-Trichloroethane	9.21	97	43964	18.276	ug/l	98
56) Ethyl methacrylate	9.18	69	62345	17.546	ug/l	95
57) 1,3-Dichloropropane	9.37	76	70226	17.640	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	183596	87.827	ug/l	95
59) 2-Hexanone	9.49	43	231698	85.605	ug/l	97
60) Dibromochloromethane	9.58	129	43893	17.704	ug/l	99
61) 1,2-Dibromoethane	9.67	107	45892	18.207	ug/l	98
64) Tetrachloroethene	9.34	164	49785	18.668	ug/l	97
65) Chlorobenzene	10.14	112	117004	17.913	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.22	131	42369	18.277	ug/l	99
67) Ethyl Benzene	10.25	91	189999	17.574	ug/l	99
68) m/p-Xylenes	10.36	106	148054	35.788	ug/l	99
69) o-Xylene	10.70	106	72794	18.050	ug/l	97
70) Styrene	10.71	104	118435	17.926	ug/l	99
71) Bromoform	10.86	173	34758	18.119	ug/l #	100
73) Isopropylbenzene	11.02	105	192394	18.009	ug/l	99
74) N-amyl acetate	10.90	43	74291	16.485	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.27	83	63596	18.168	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	61261m	21.148	ug/l	
77) Bromobenzene	11.26	156	53299	18.279	ug/l	95
78) n-propylbenzene	11.36	91	205541	17.537	ug/l	99
79) 2-Chlorotoluene	11.42	91	126898	17.729	ug/l	97
80) 1,3,5-Trimethylbenzene	11.51	105	161171	18.309	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	16735	16.440	ug/l	93
82) 4-Chlorotoluene	11.51	91	145798	17.785	ug/l	99
83) tert-Butylbenzene	11.77	119	158341	17.949	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	164064	18.068	ug/l	100
85) sec-Butylbenzene	11.94	105	187791	17.867	ug/l	100
86) p-Isopropyltoluene	12.06	119	172442	18.141	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	94320	18.175	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	93194	17.685	ug/l	99
89) n-Butylbenzene	12.39	91	133605	16.797	ug/l	99
90) Hexachloroethane	12.60	117	26702	17.552	ug/l	96
91) 1,2-Dichlorobenzene	12.39	146	95406	18.530	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	13206	18.661	ug/l	90

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ClientSampleId :
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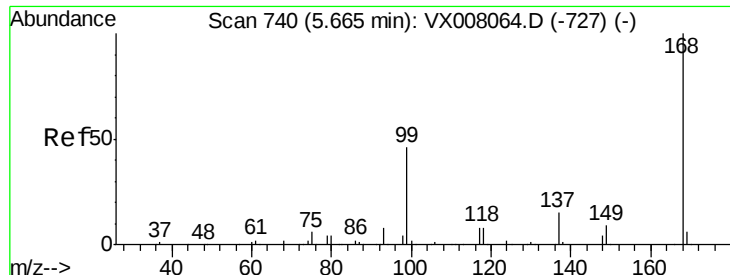
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	64206	17.604	ug/l	100
94) Hexachlorobutadiene	13.78	225	35901	18.118	ug/l	99
95) Naphthalene	13.83	128	189698	18.498	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	65841	18.338	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: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion:168 Resp: 262788

Ion Ratio Lower Upper

168 100

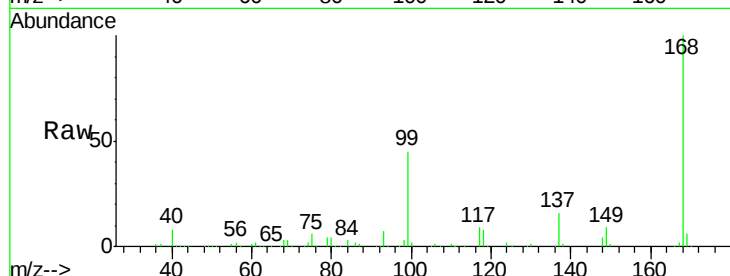
99 45.4 37.6 56.4

Manual Integrations

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3/16/2019 10:33:28 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

100000

80000

60000

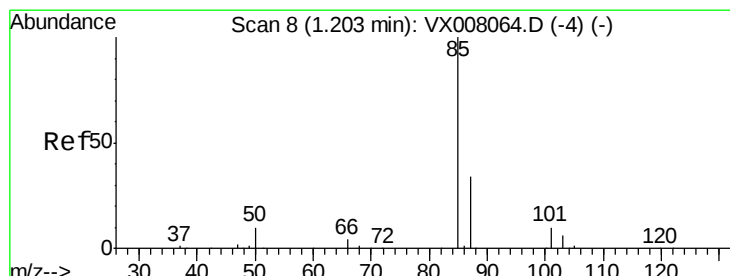
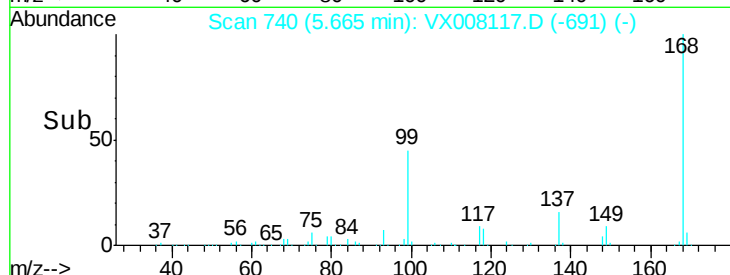
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 16.724 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.00 min

Lab File: VX008117.D

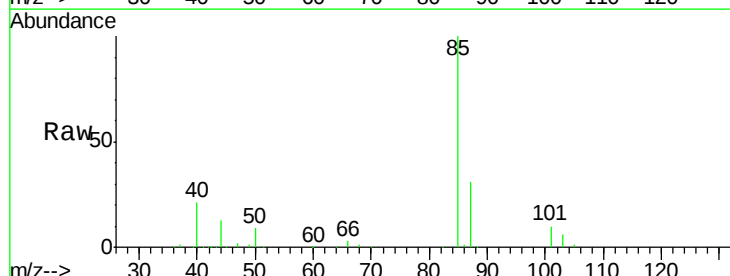
Acq: 15 Mar 2019 20:23

Tgt Ion: 85 Resp: 35180

Ion Ratio Lower Upper

85 100

87 30.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

40000

30000

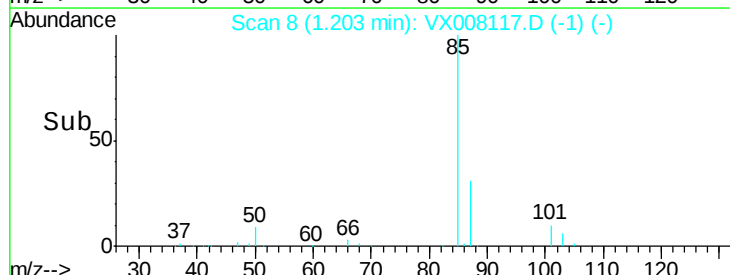
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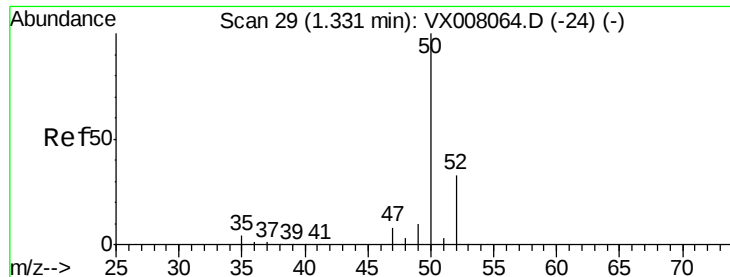
10000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 12.999 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 50 Resp: 32195

Ion Ratio Lower Upper

50 100

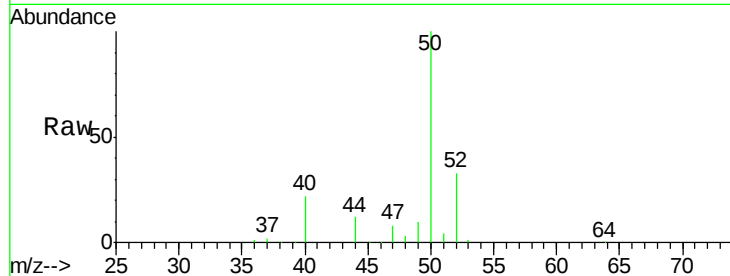
52 33.1 26.5 39.7

Manual Integrations

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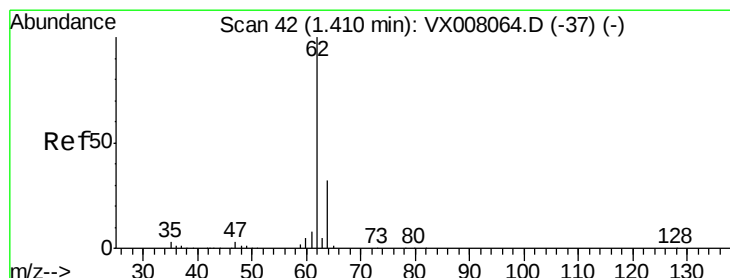
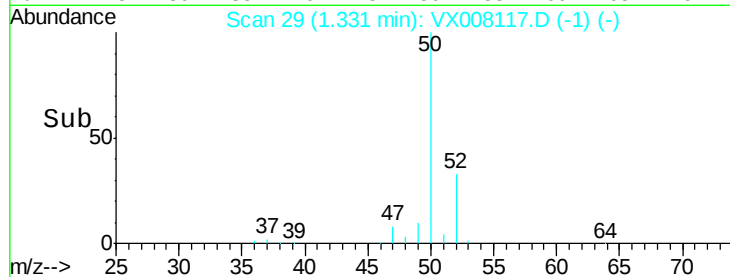
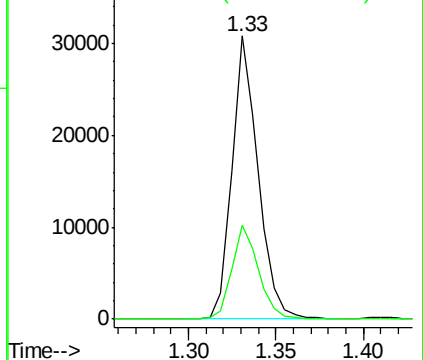
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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 14.393 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX008117.D

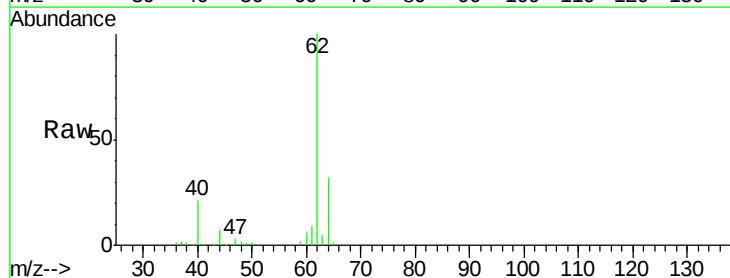
Acq: 15 Mar 2019 20:23

Tgt Ion: 62 Resp: 34014

Ion Ratio Lower Upper

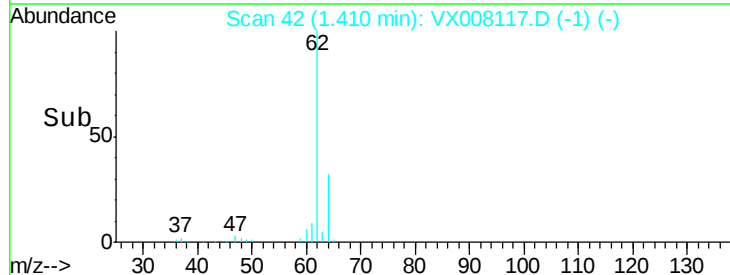
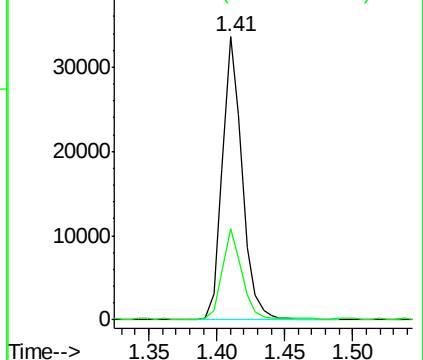
62 100

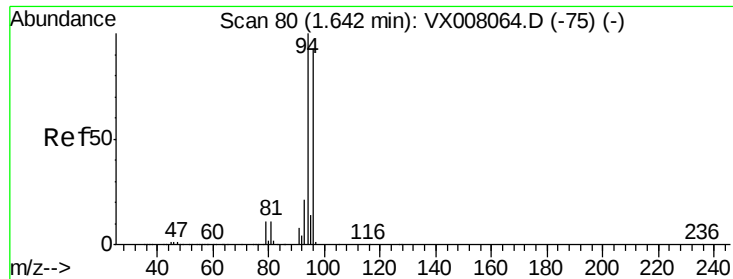
64 32.1 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 17.420 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 94 Resp: 21168

Ion Ratio Lower Upper

94 100

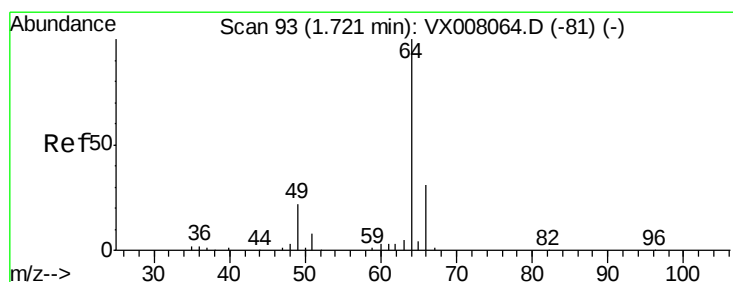
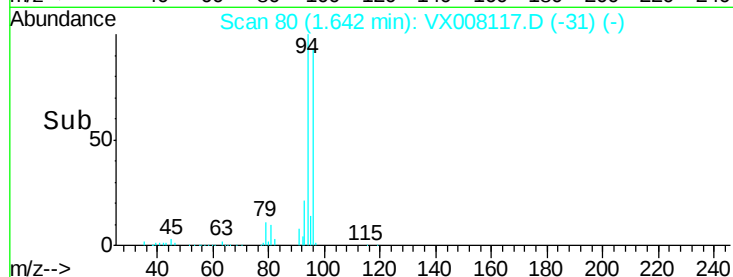
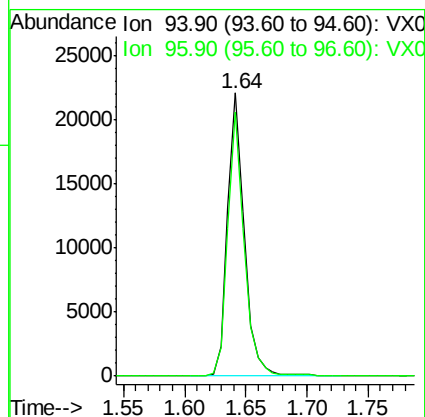
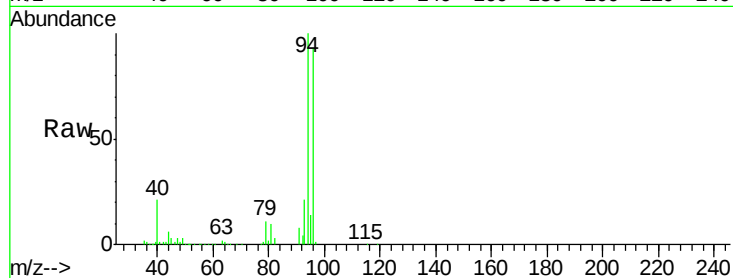
96 93.3 75.5 113.3

Manual Integrations

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#6

Chloroethane

Concen: 15.983 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008117.D

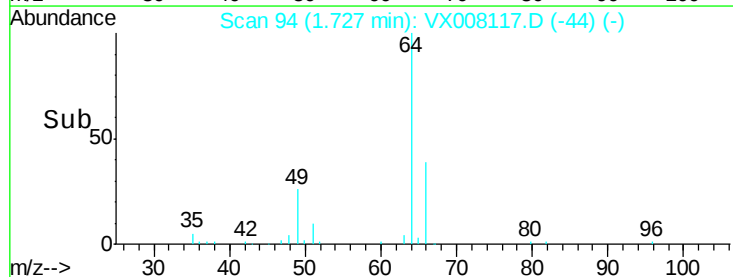
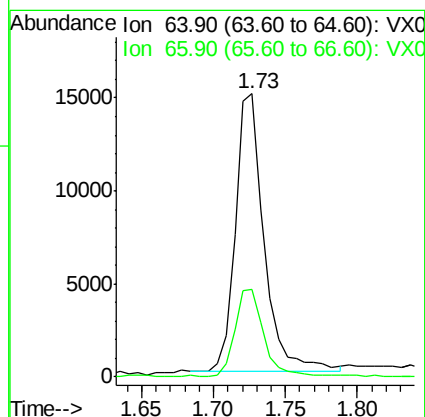
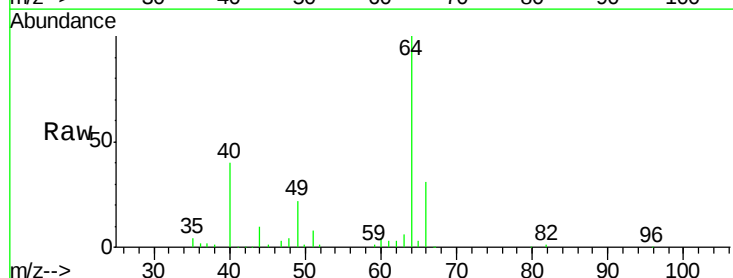
Acq: 15 Mar 2019 20:23

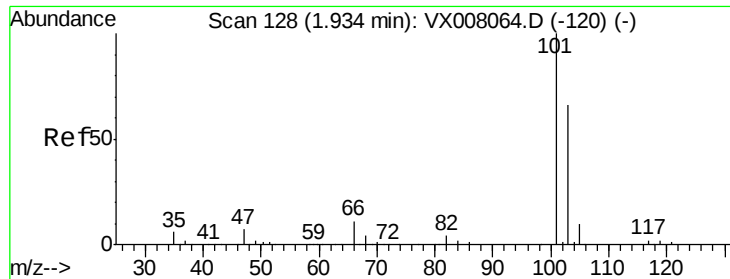
Tgt Ion: 64 Resp: 20932

Ion Ratio Lower Upper

64 100

66 31.3 25.2 37.8





#7

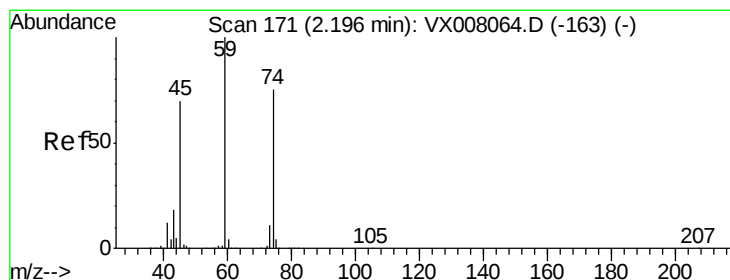
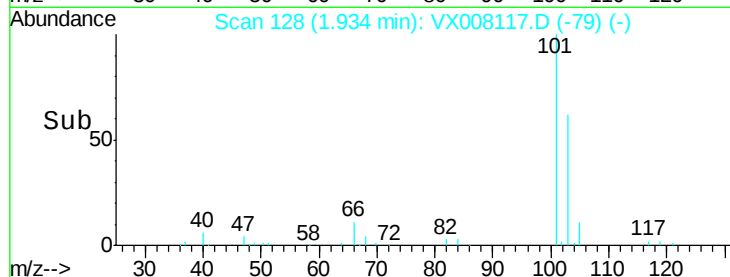
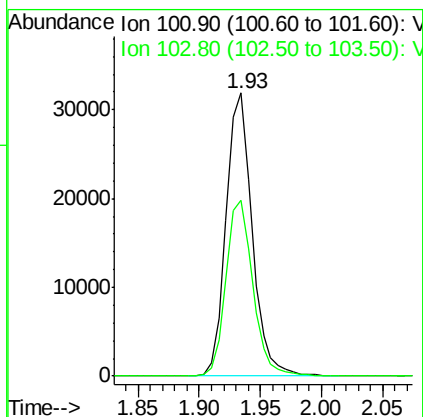
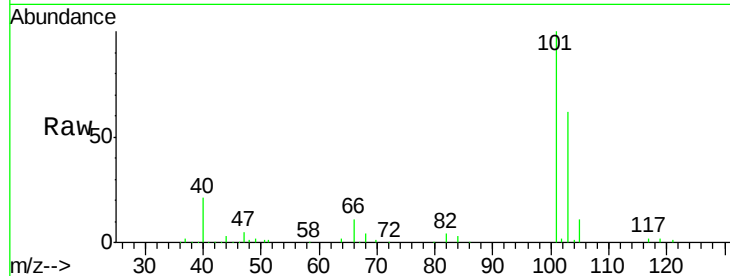
Trichlorofluoromethane
Concen: 16.583 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.2	50.4	75.6

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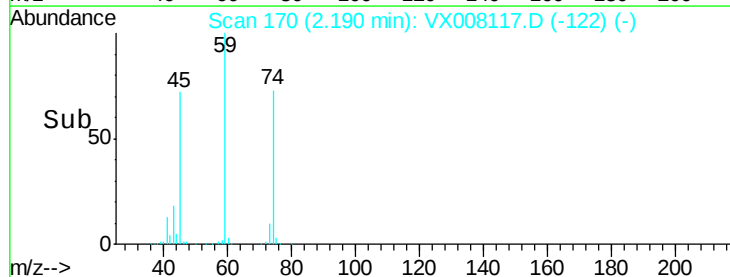
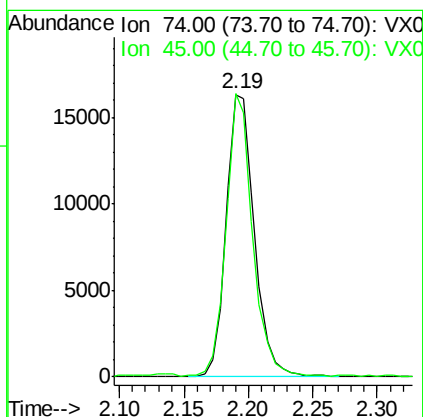
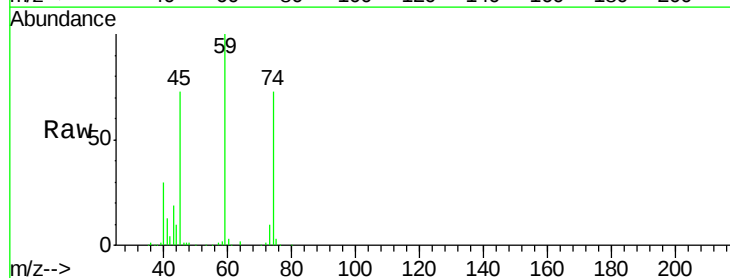
MMDadoda
3/16/2019 10:33:28 AM

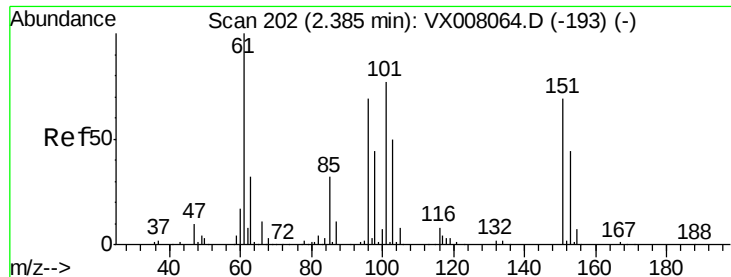


#8

Diethyl Ether
Concen: 17.807 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.6	52.1	156.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.611 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

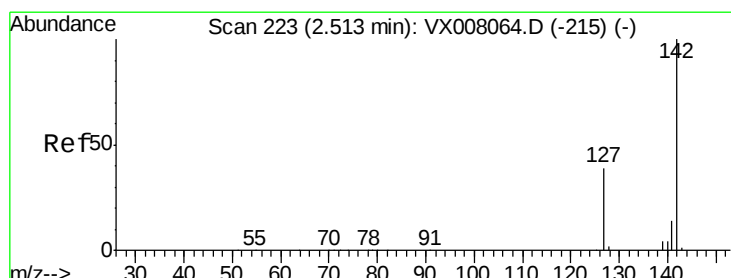
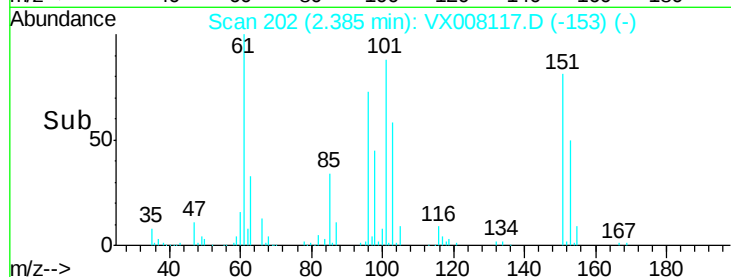
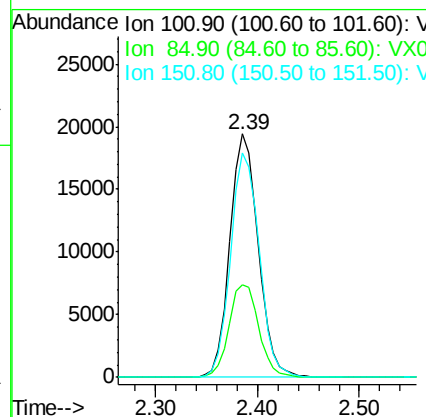
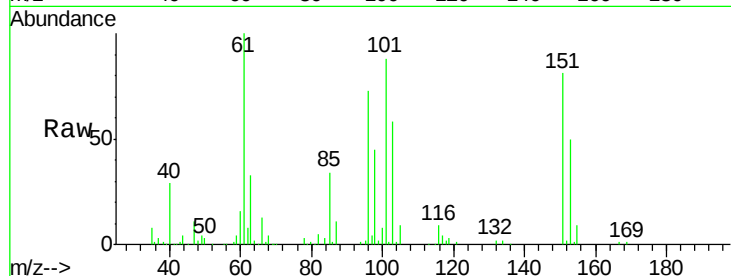
ClientSampleId :

VX0315WBSD02

Tot Ion:	101	Resp:	37333
Ion Ratio	Lower	Upper	
101	100		
85	39.9	33.8	50.6
151	93.2	69.1	103.7

Manual Integrations
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#10

Methyl Iodide

Concen: 18.891 ug/l

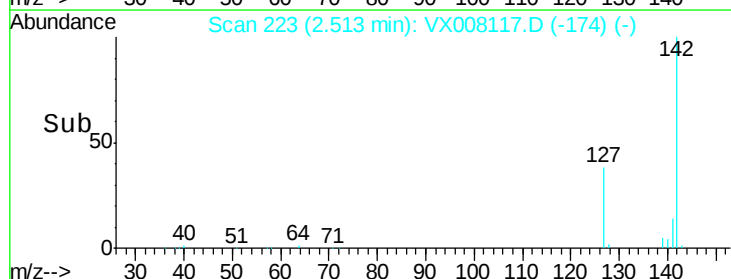
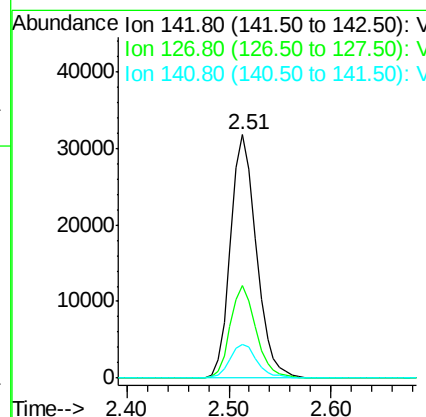
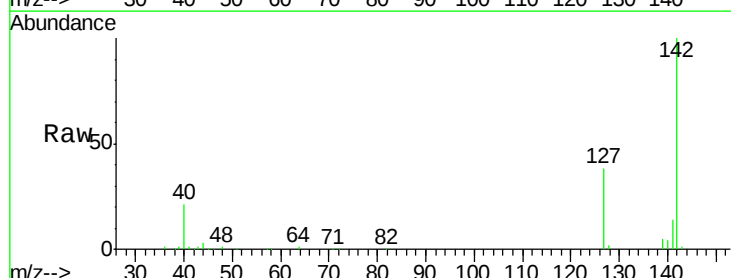
RT: 2.51 min Scan# 223

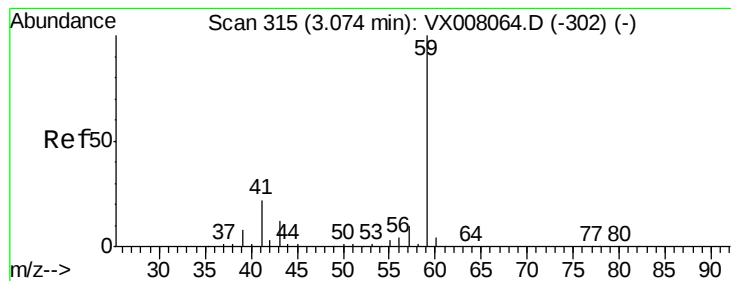
Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion:	142	Resp:	55945
Ion Ratio	Lower	Upper	
142	100		
127	37.7	32.1	48.1
141	14.5	11.4	17.2





#11

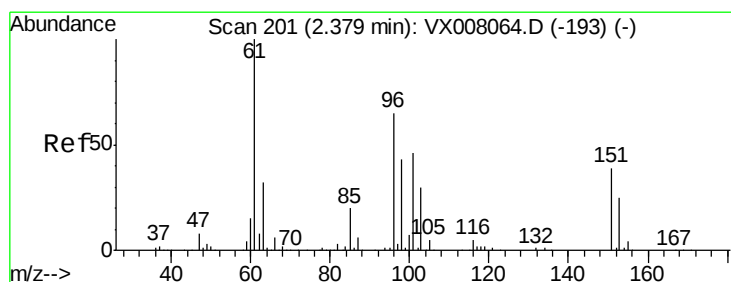
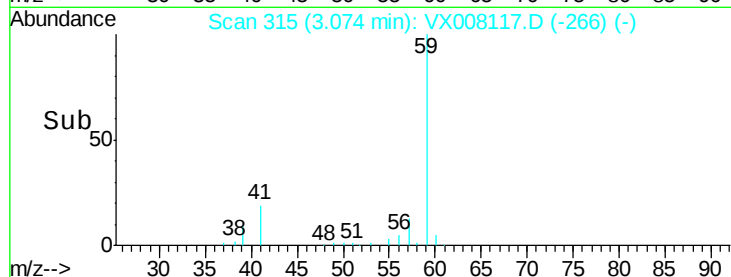
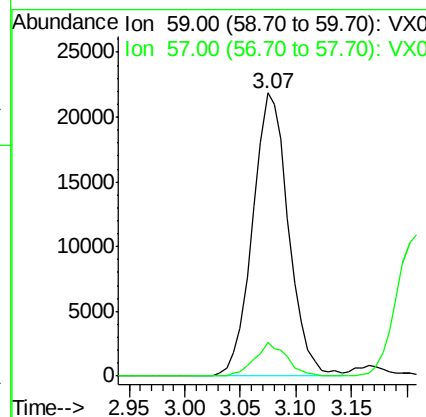
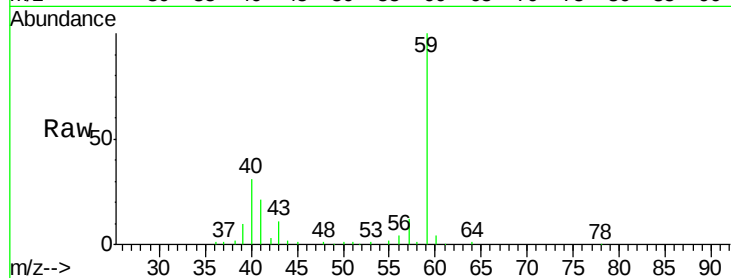
Tert butyl alcohol
 Concen: 95.946 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
59	100	49138		
57	10.6		8.2	12.2

Manual Integrations
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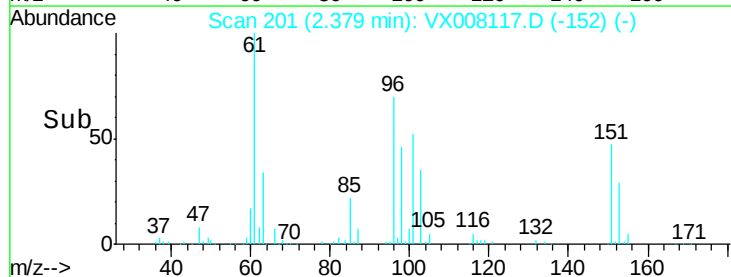
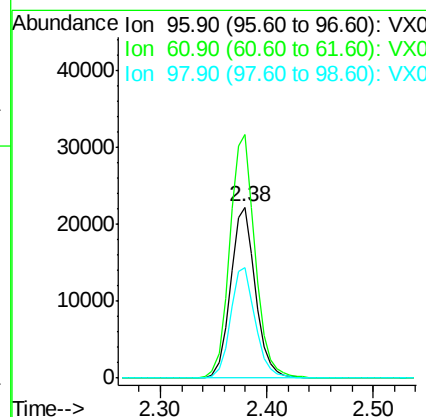
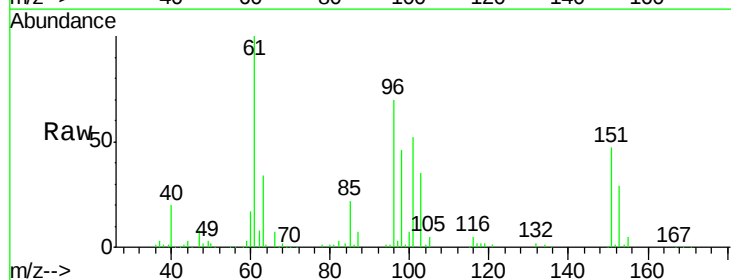
MMDadoda
 3/16/2019 10:33:28 AM

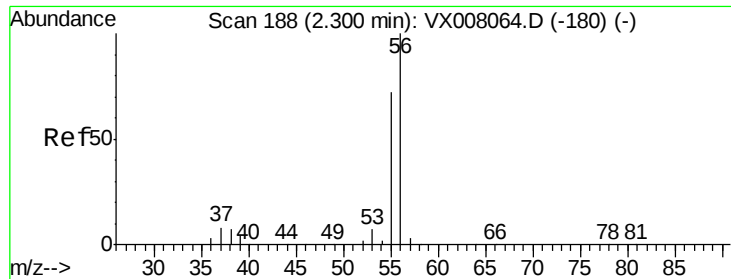


#12

1,1-Dichloroethene
 Concen: 18.178 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	36421		
61	142.4		129.8	194.6
98	64.9		51.0	76.6





#13

Acrolein

Concen: 72.982 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 56 Resp: 34429

Ion Ratio Lower Upper

56 100

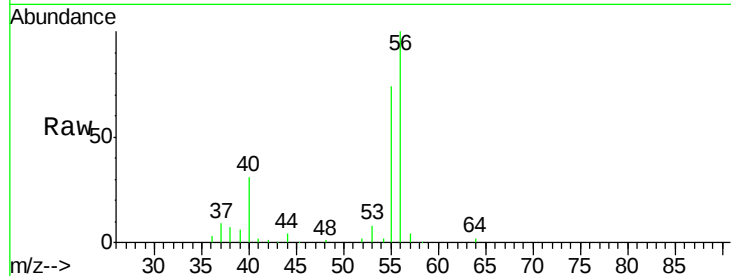
55 72.4 57.8 86.6

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

25000

20000

15000

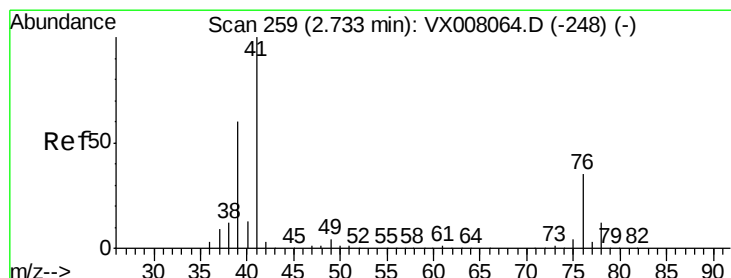
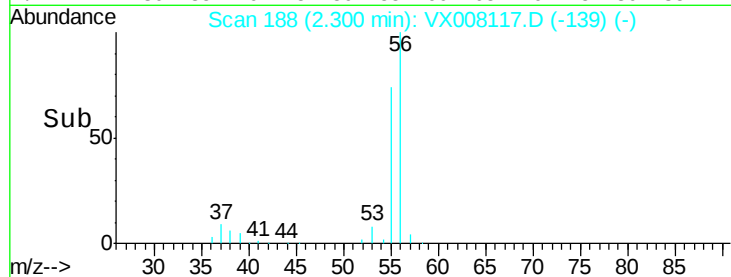
10000

5000

0

Time-->

2.25 2.30 2.35 2.40



#14

Allyl chloride

Concen: 16.744 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

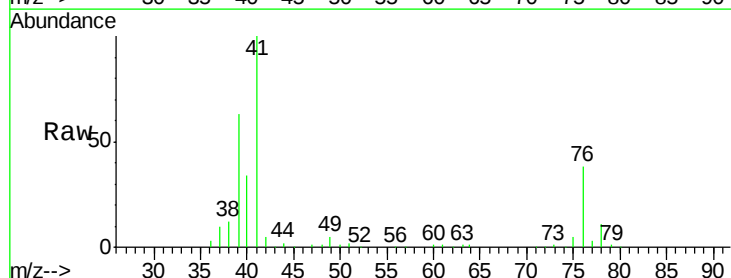
Tgt Ion: 41 Resp: 61105

Ion Ratio Lower Upper

41 100

39 59.1 46.1 69.1

76 34.6 24.0 36.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

50000

40000

30000

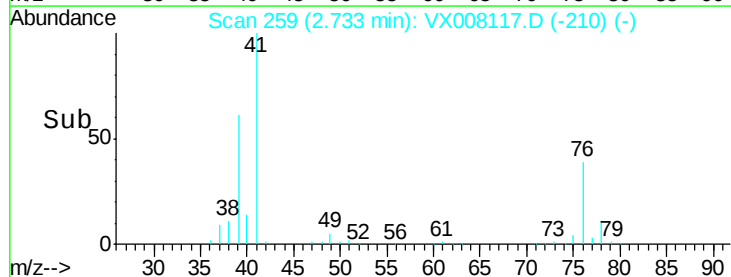
20000

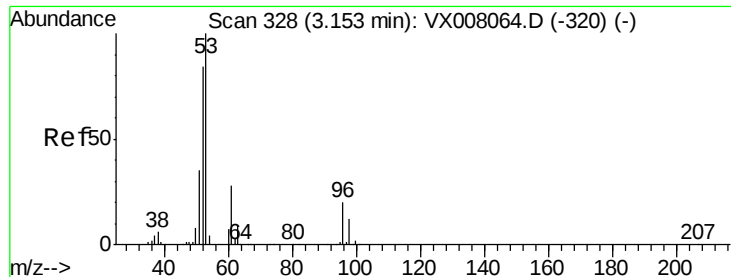
10000

0

Time-->

2.60 2.70 2.80





#15

Acrylonitrile

Concen: 90.147 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

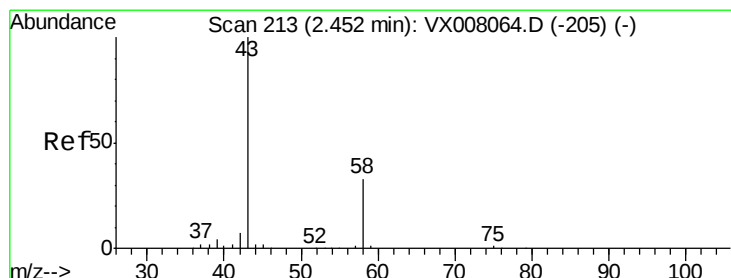
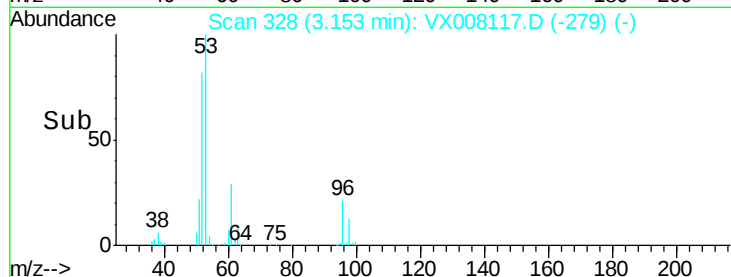
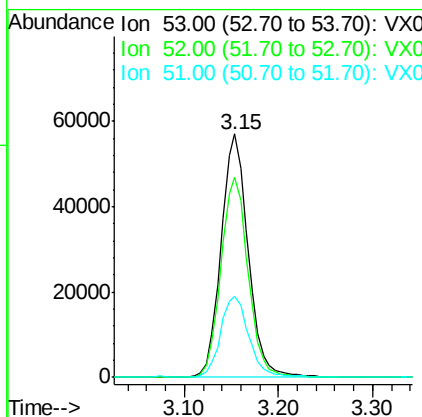
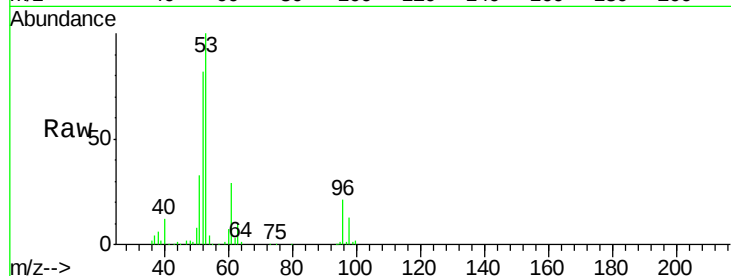
ClientSampleId :

VX0315WBSD02

Tot Ion:	53	Resp:	112579
Ion Ratio		Lower	Upper
53	100		
52	83.6	66.0	99.0
51	35.1	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 76.370 ug/l

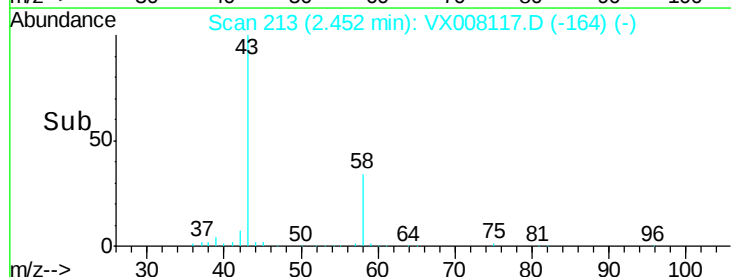
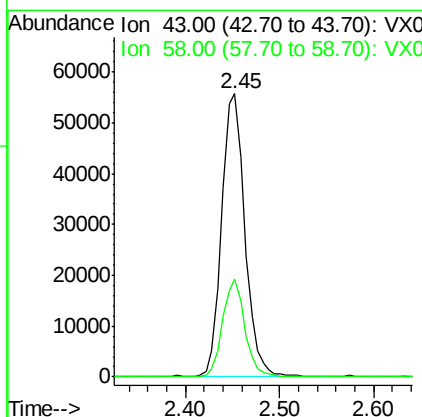
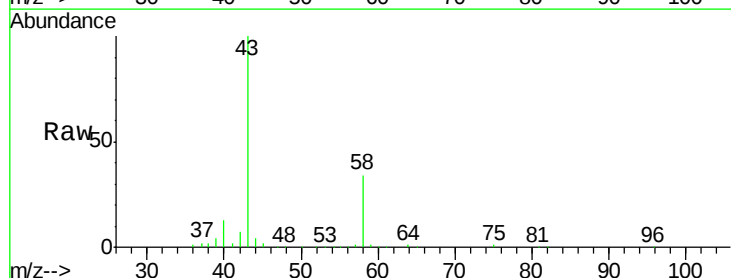
RT: 2.45 min Scan# 213

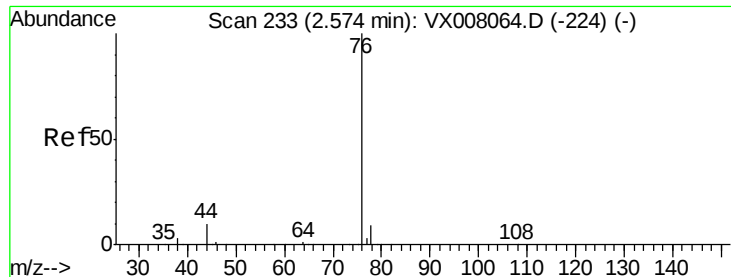
Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion:	43	Resp:	95575
Ion Ratio		Lower	Upper
43	100		
58	34.3	25.5	38.3





#17

Carbon Disulfide

Concen: 17.482 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 76 Resp: 100573

Ion Ratio Lower Upper

76 100

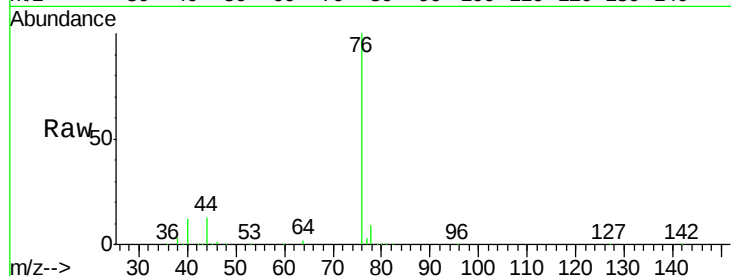
78 9.2 7.2 10.8

Manual Integrations

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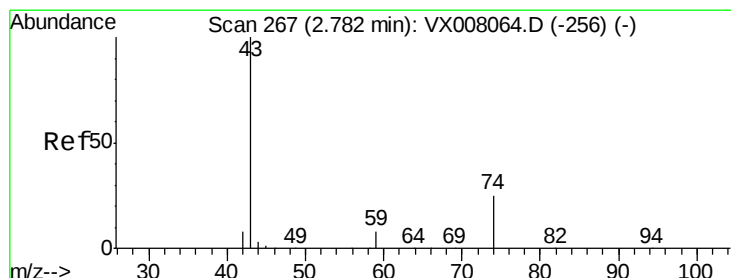
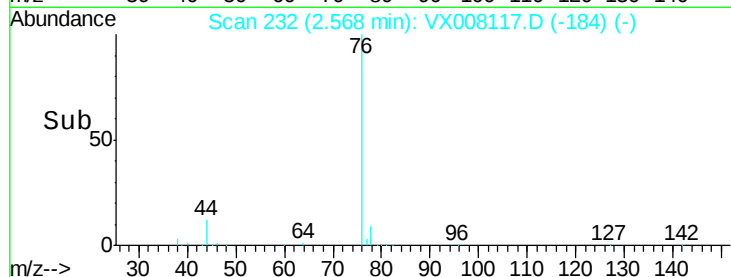
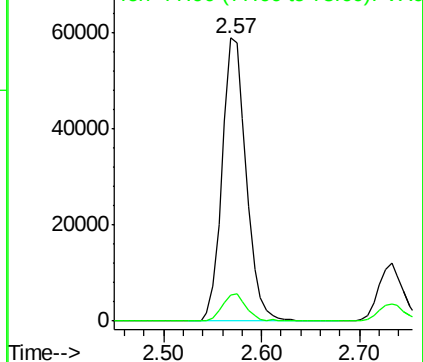
MMDadoda

3/16/2019 10:33:28 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 19.219 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX008117.D

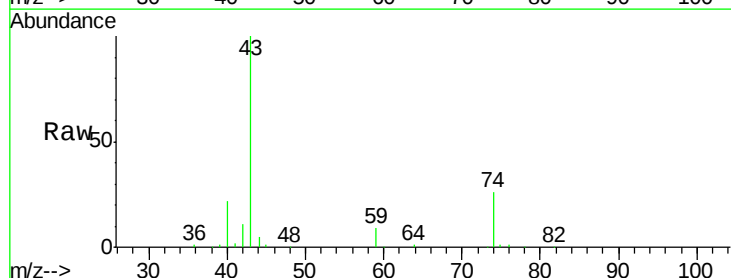
Acq: 15 Mar 2019 20:23

Tgt Ion: 43 Resp: 51985

Ion Ratio Lower Upper

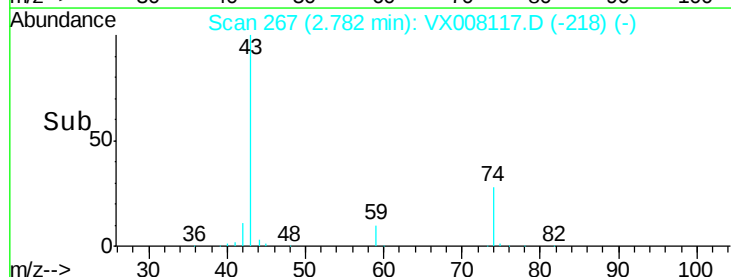
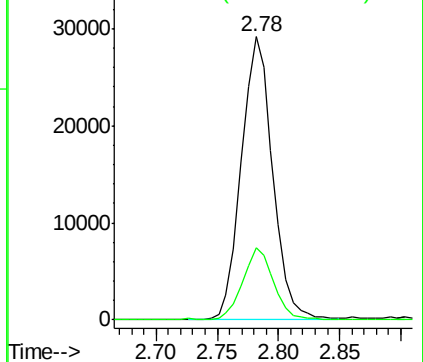
43 100

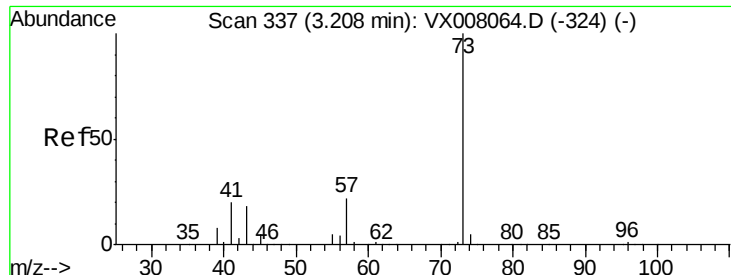
74 25.1 17.8 26.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





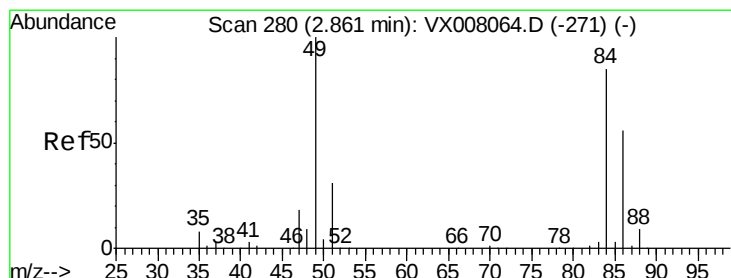
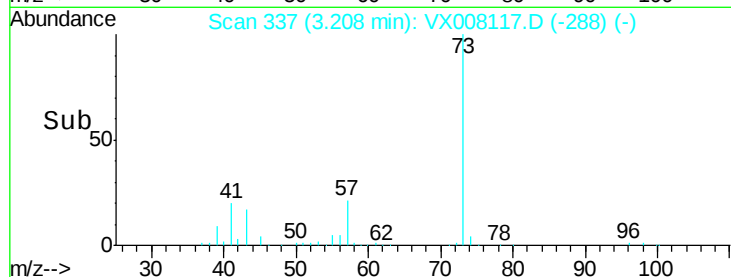
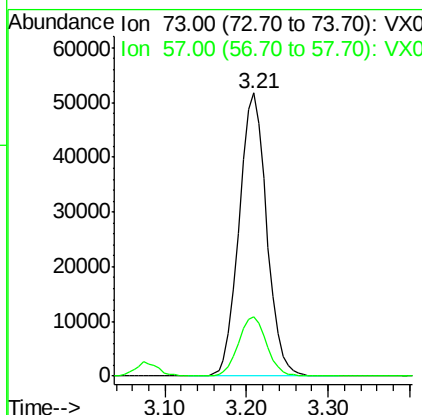
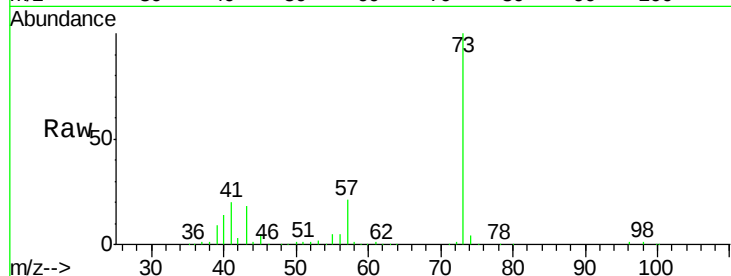
#19
Methvl tert-butvl Ether
Concen: 17.851 ug/l
RT: 3.21 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion: 73 Resp: 120929
Ion Ratio Lower Upper
73 100
57 21.2 18.2 27.4

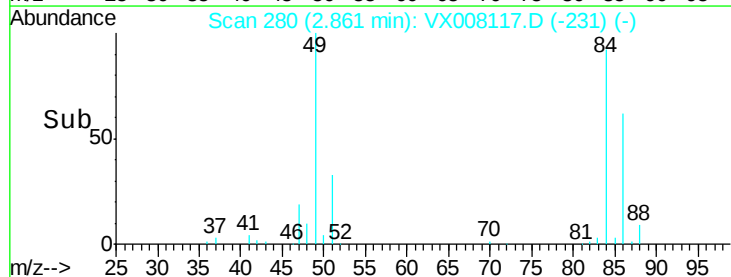
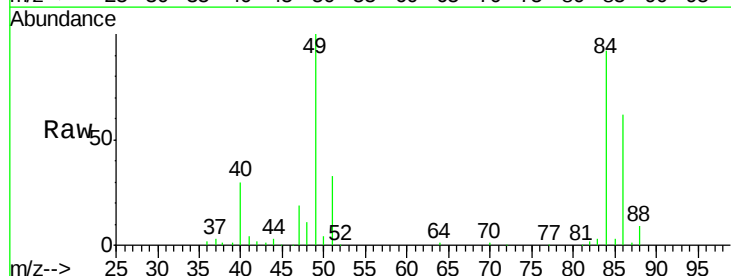
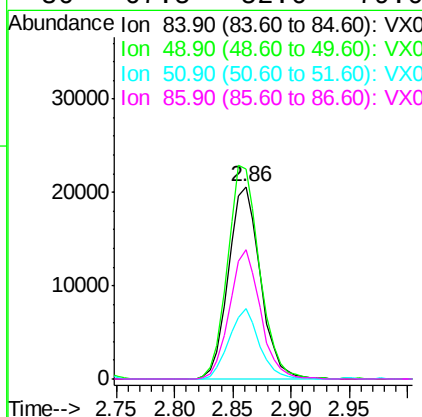
Manual Integrations
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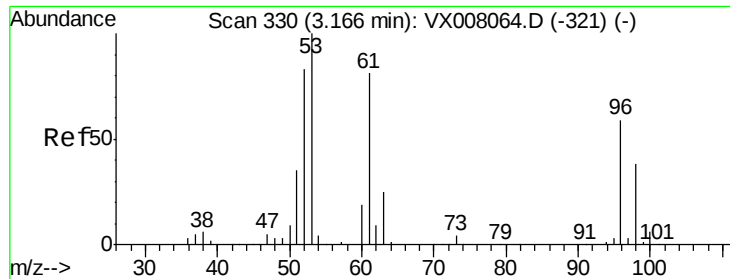
MMDadoda
3/16/2019 10:33:28 AM



#20
Methylene Chloride
Concen: 17.608 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion: 84 Resp: 39356
Ion Ratio Lower Upper
84 100
49 109.1 99.3 148.9
51 36.4 31.3 46.9
86 67.5 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 17.947 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 96 Resp: 38744

Ion Ratio Lower Upper

96 100

61 125.8 114.4 171.6

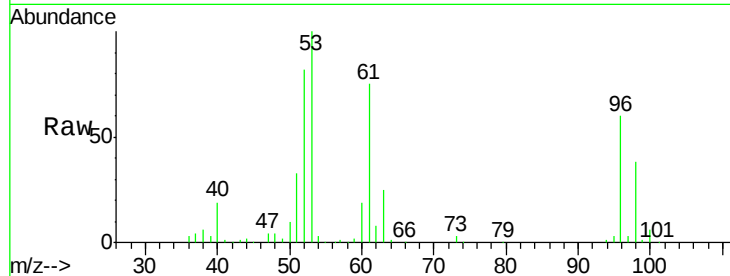
98 63.6 51.1 76.7

Manual Integrations

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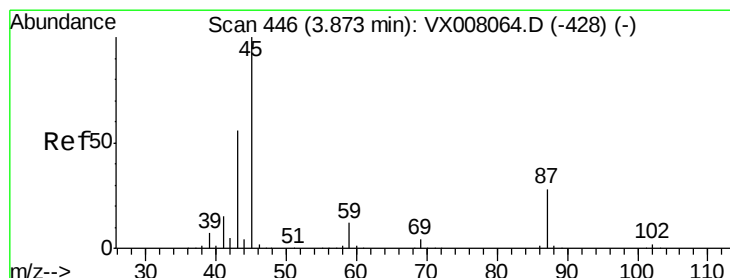
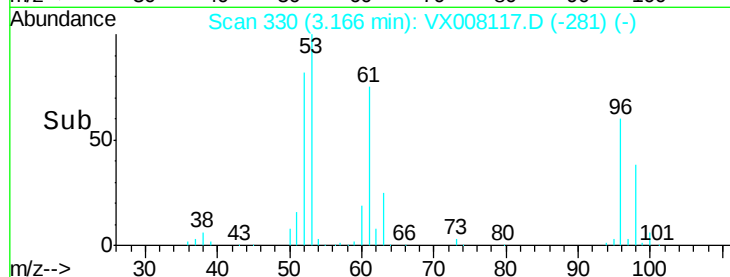
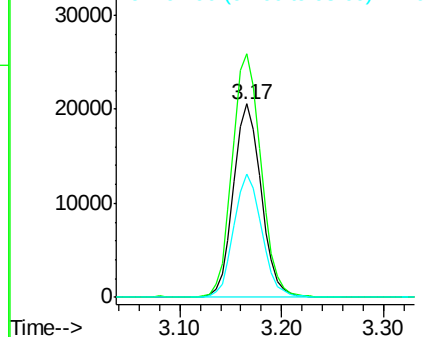
3/16/2019 10:33:28 AM



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: 17.514 ug/l

RT: 3.88 min Scan# 447

Delta R.T. 0.01 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion: 45 Resp: 127021

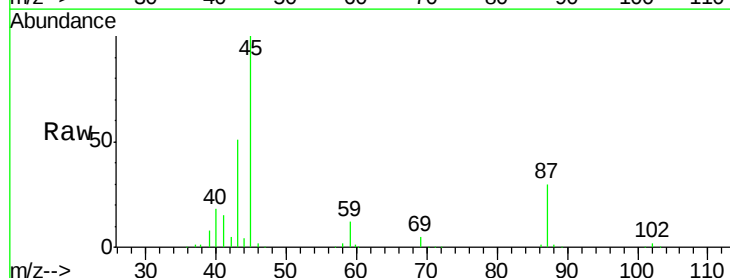
Ion Ratio Lower Upper

45 100

43 50.4 45.3 67.9

87 29.7 21.4 32.0

59 12.3 9.5 14.3

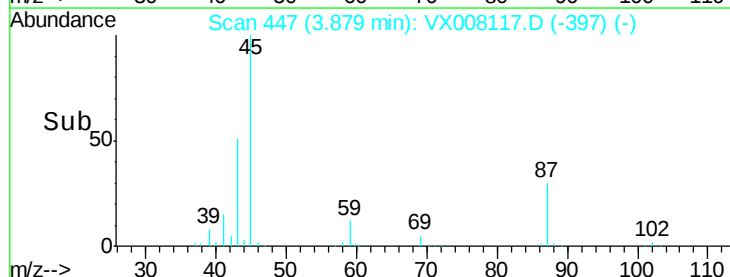
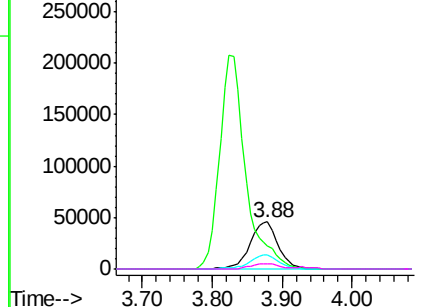


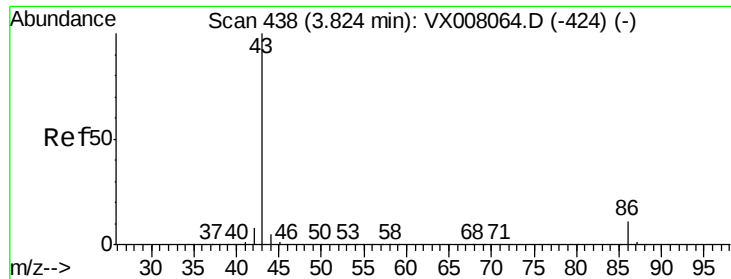
Abundance Ion 45.00 (44.70 to 45.70): VX0

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: 87.556 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 43 Resp: 540050

Ion Ratio Lower Upper

43 100

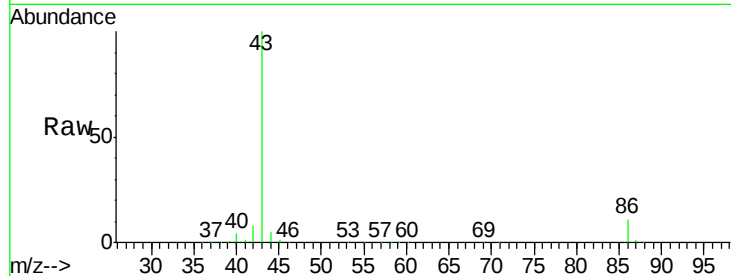
86 11.3 7.9 11.9

Manual Integrations

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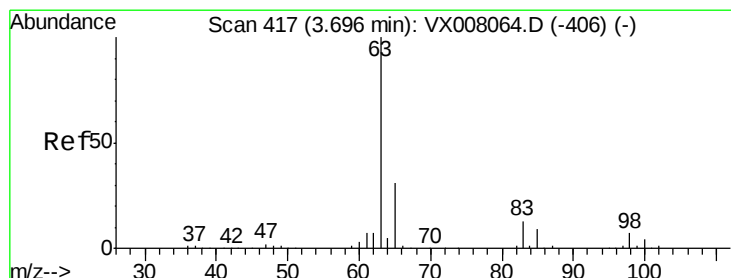
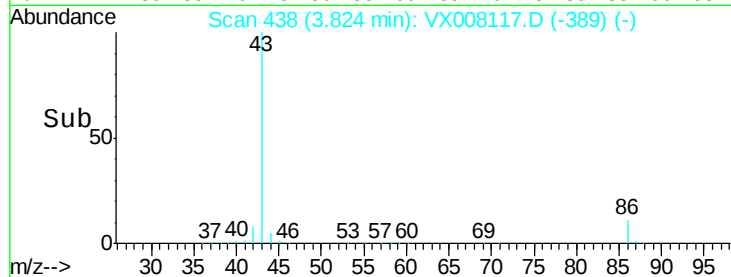
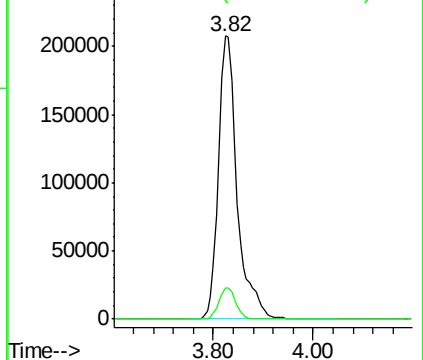
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 17.993 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

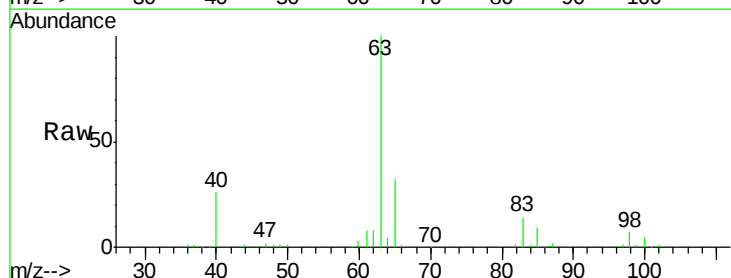
Tgt Ion: 63 Resp: 71533

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

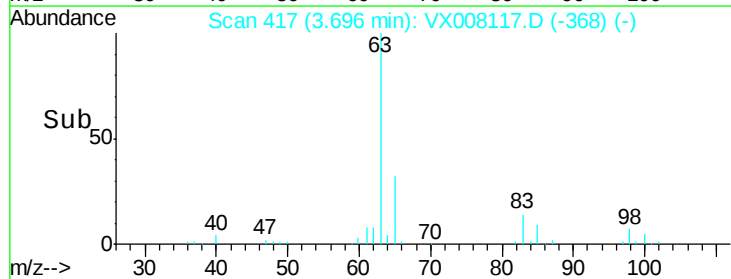
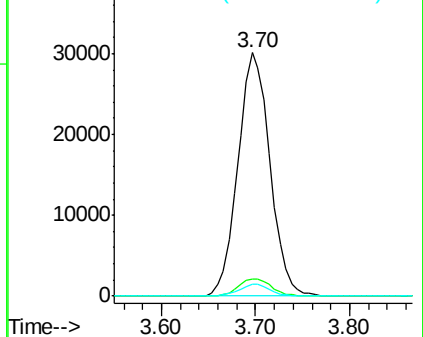
100 5.1 2.3 6.8

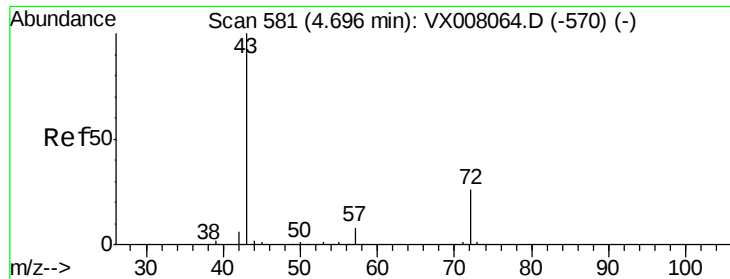


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 84.733 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 43 Resp: 162767

Ion Ratio Lower Upper

43 100

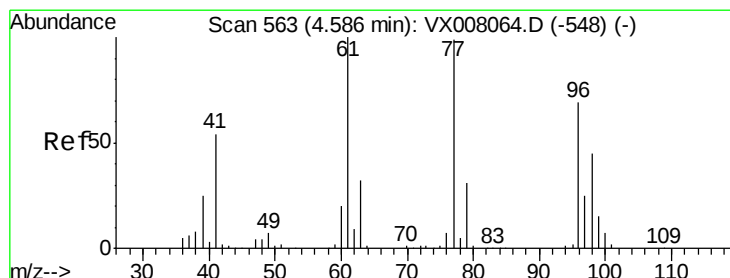
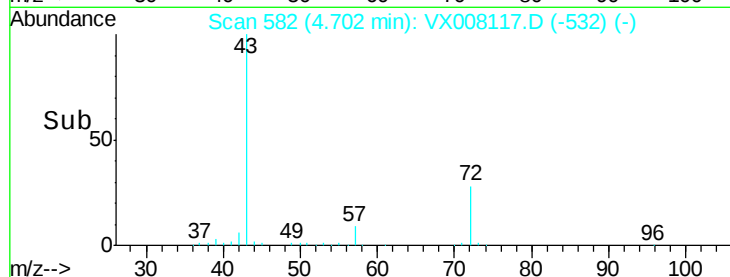
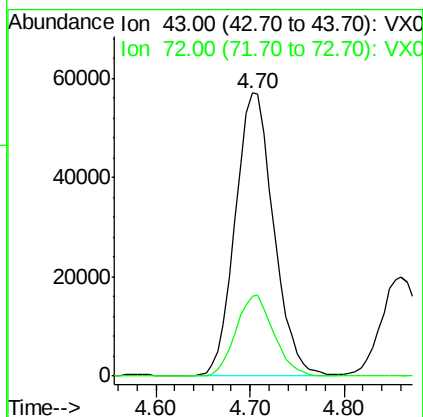
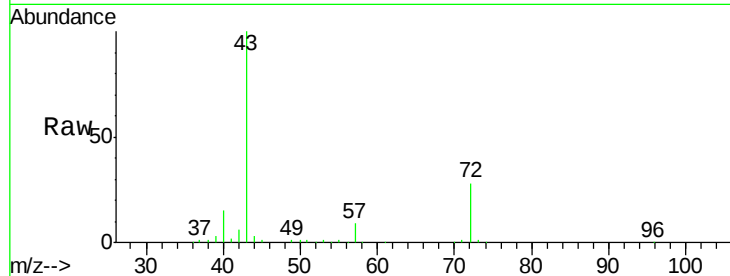
72 28.3 19.9 29.9

Manual Integrations

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MMDadoda

3/16/2019 10:33:28 AM



#26

2,2-Dichloropropane

Concen: 15.611 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX008117.D

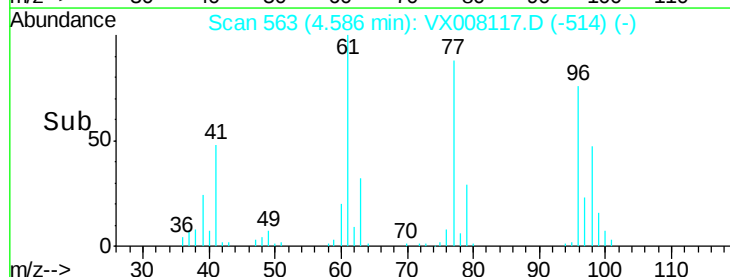
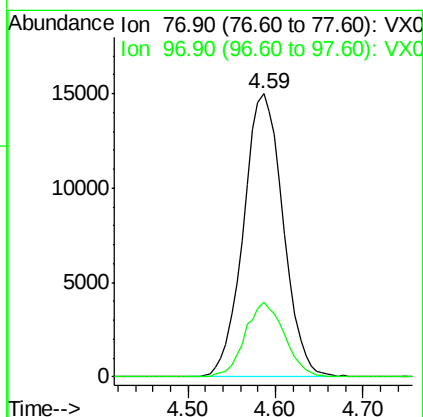
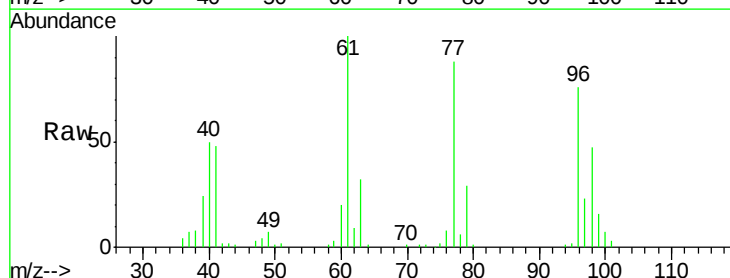
Acq: 15 Mar 2019 20:23

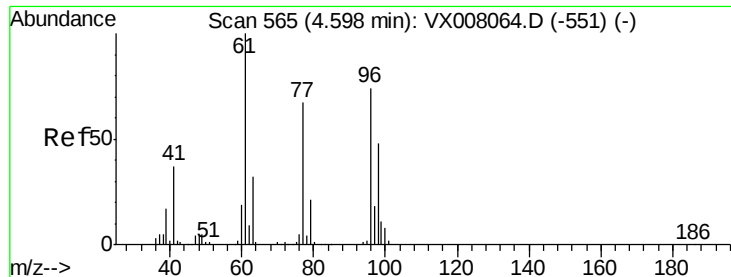
Tgt Ion: 77 Resp: 47415

Ion Ratio Lower Upper

77 100

97 25.9 12.2 36.6





#27

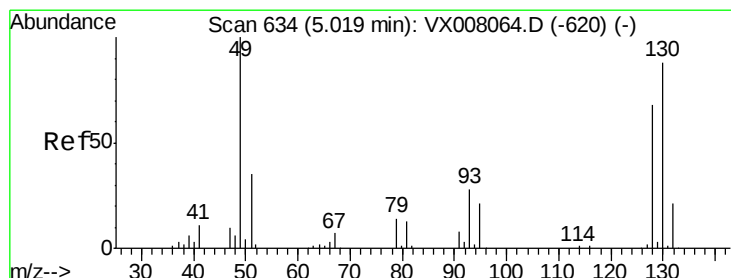
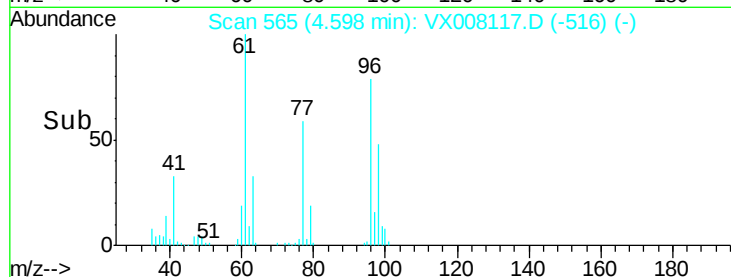
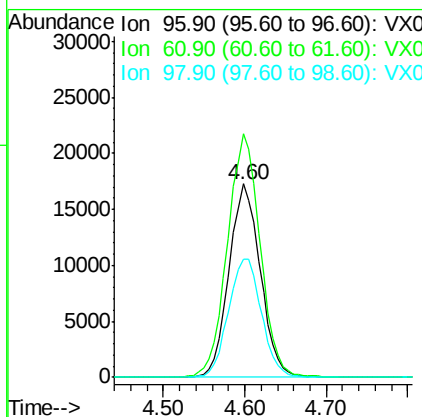
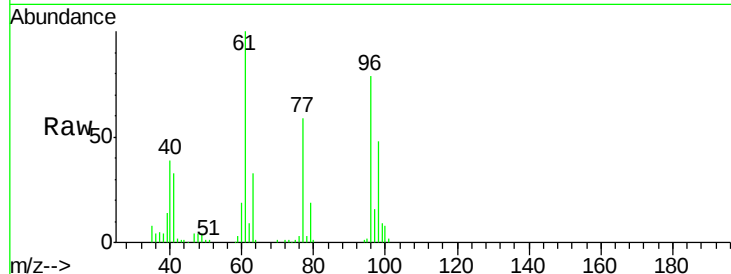
cis-1,2-Dichloroethene
Concen: 17.884 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.3	0.0	288.0
98	64.4	0.0	129.0

Manual Integrations
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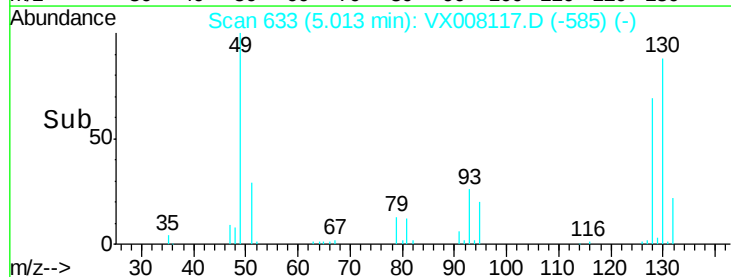
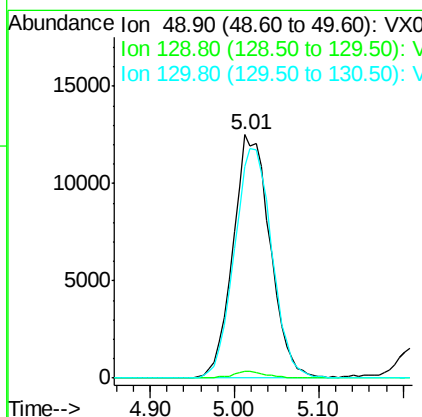
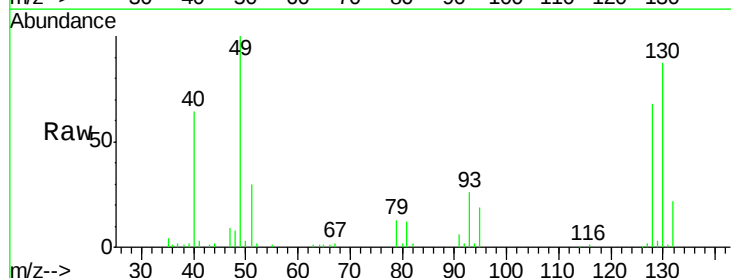
MMDadoda
3/16/2019 10:33:28 AM

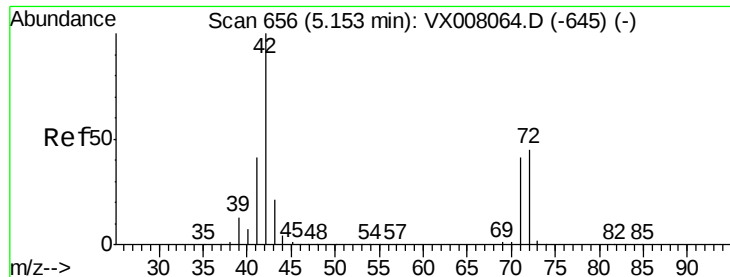


#28

Bromochloromethane
Concen: 19.831 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.0
130	95.8	65.0	97.4





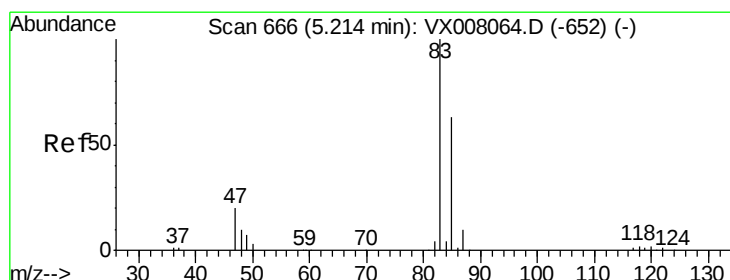
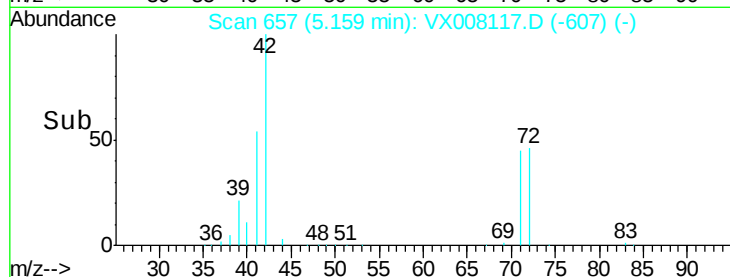
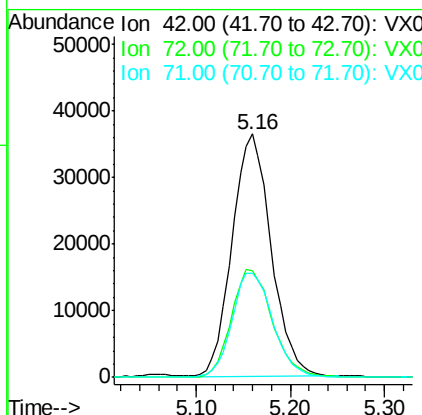
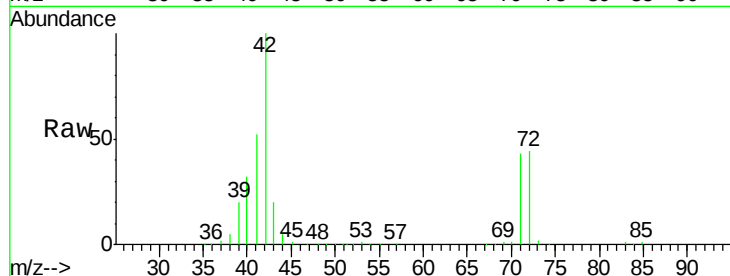
#29
Tetrahydrofuran
Concen: 88.190 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.7	33.8	50.6
71	44.8	31.5	47.3

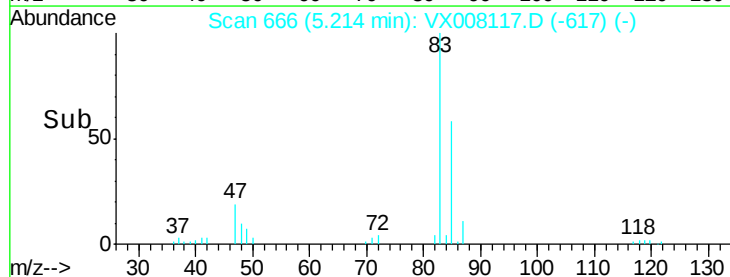
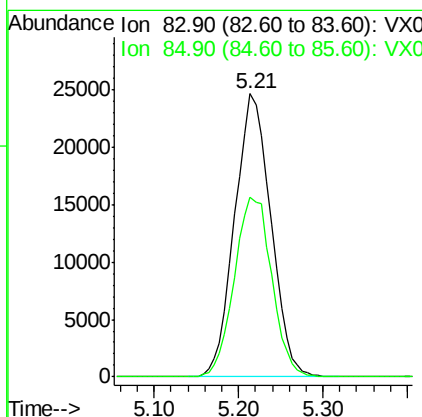
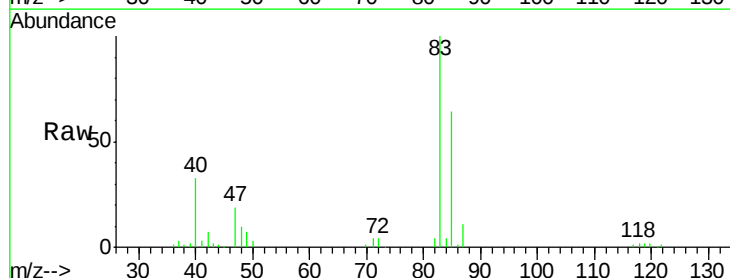
Manual Integrations
APPROVED

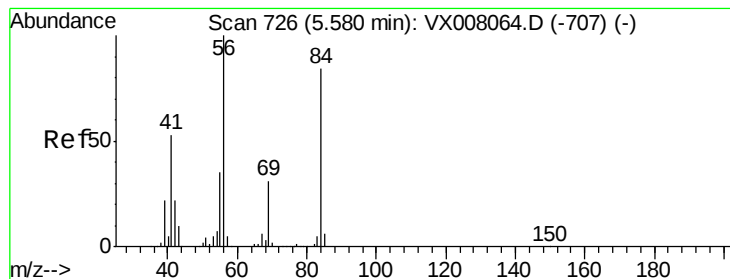
MMDadoda
3/16/2019 10:33:28 AM



#30
Chloroform
Concen: 17.838 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.8	77.6





#31

Cyclohexane

Concen: 16.533 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.01 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

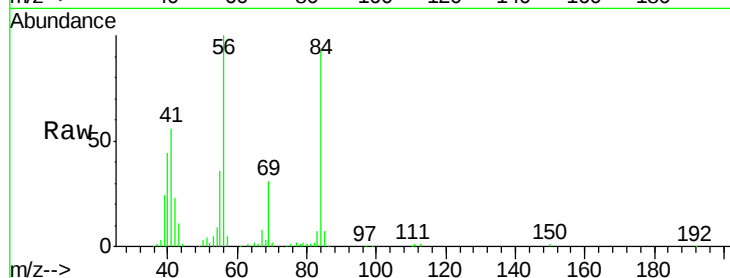
ClientSampleId :

VX0315WBSD02

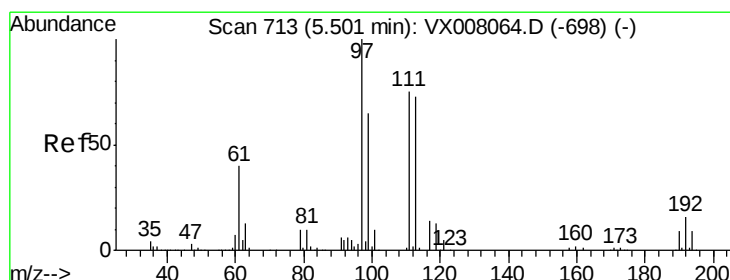
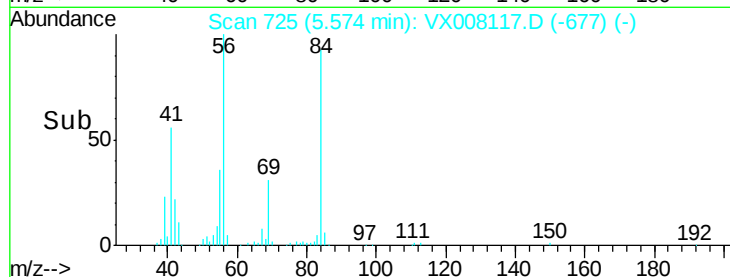
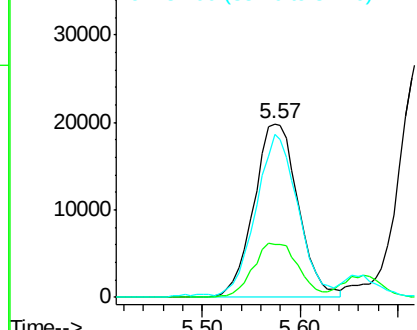
Tot Ion:	56	Resp:	62666
Ion	Ratio	Lower	Upper
56	100		
69	30.8	24.0	36.0
84	92.4	65.3	97.9

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 17.884 ug/l

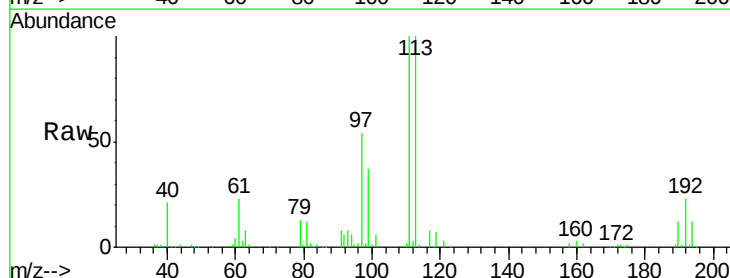
RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

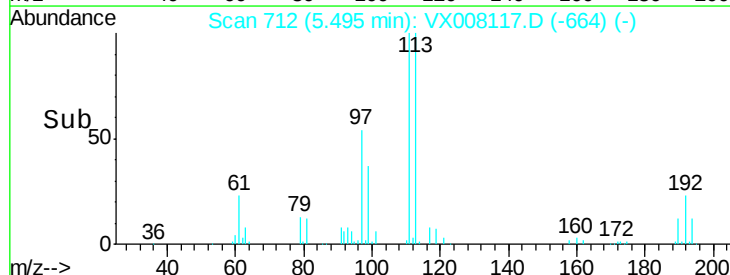
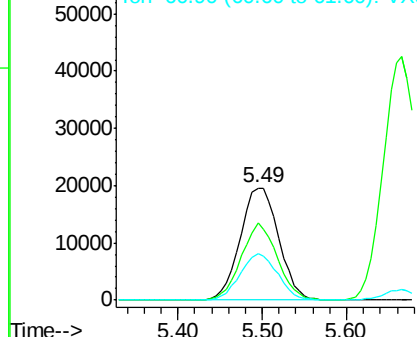
Lab File: VX008117.D

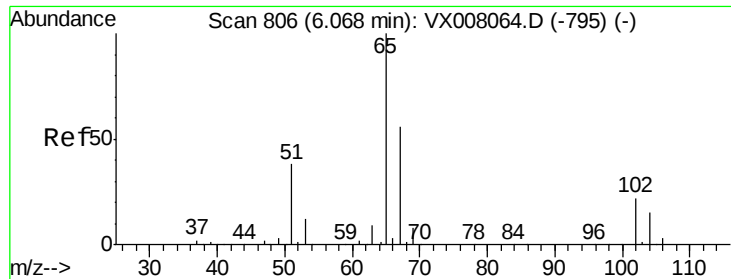
Acq: 15 Mar 2019 20:23

Tgt Ion:	97	Resp:	60664
Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.2
61	40.4	34.9	52.3



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





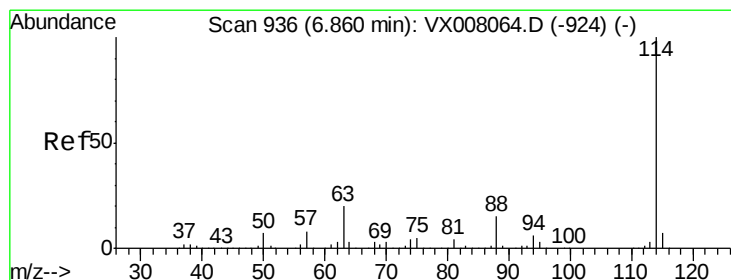
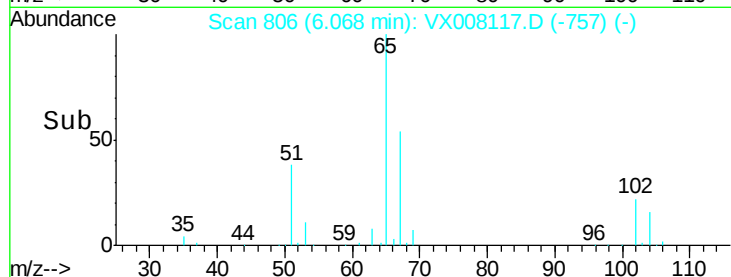
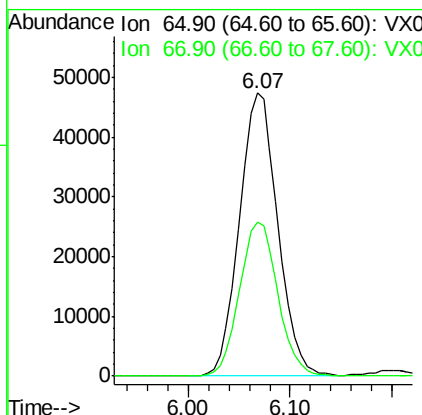
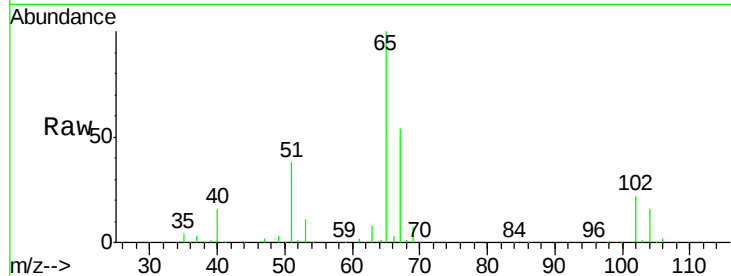
#33
 1,2-Dichloroethane-d4
 Concen: 46.645 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	123649		
67	54.2	0.0	110.0	

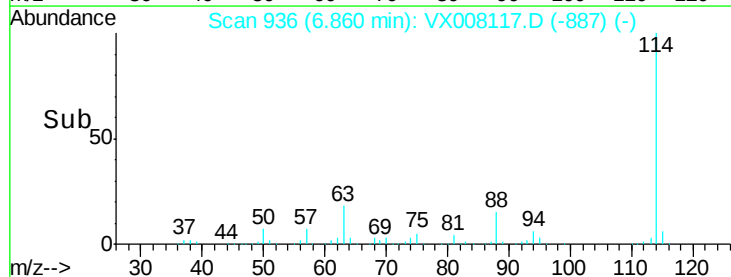
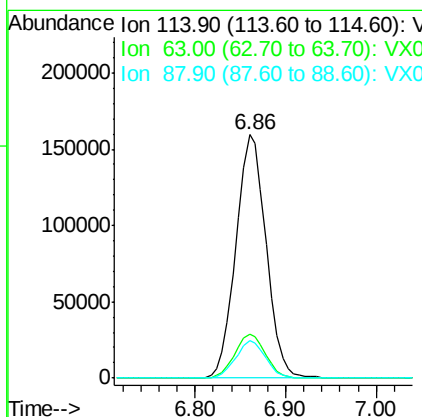
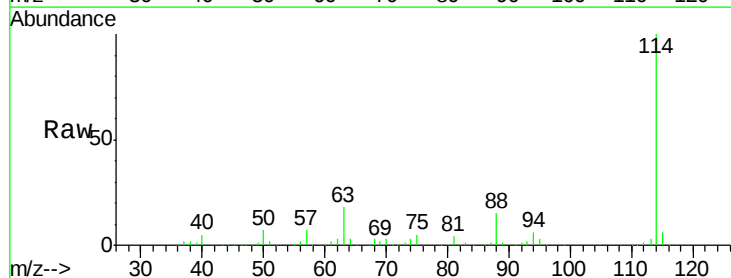
Manual Integrations
 APPROVED

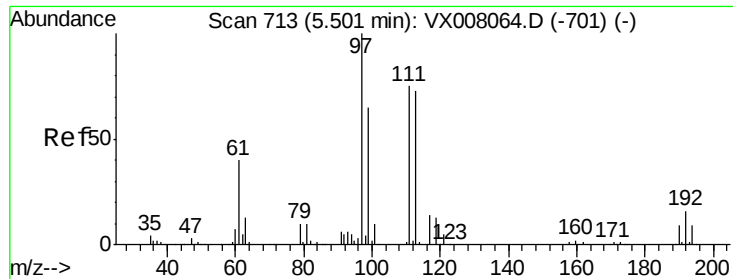
MMDadoda
 3/16/2019 10:33:28 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	368775		
63	18.1	0.0	39.8	
88	15.3	0.0	31.4	





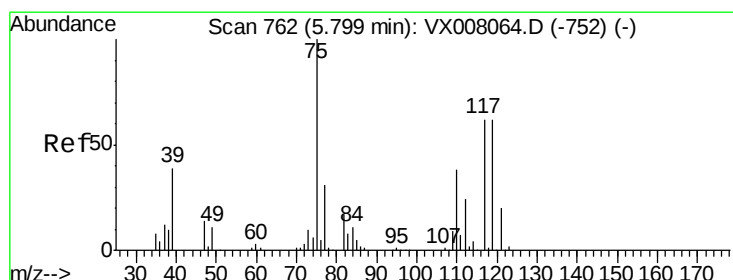
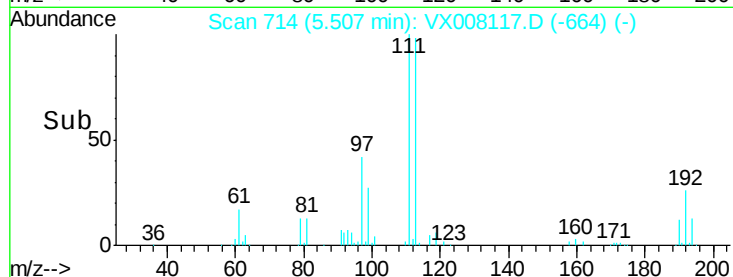
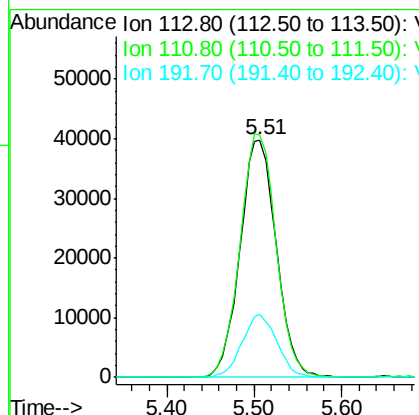
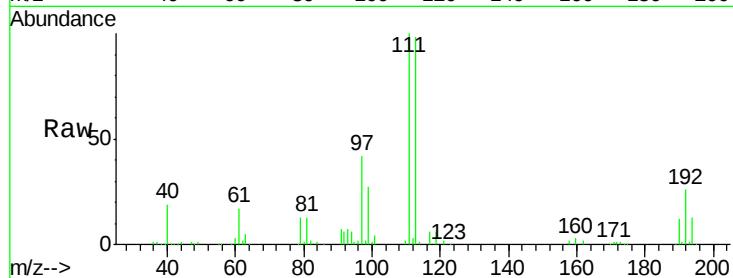
#35
 Dibromofluoromethane
 Concen: 48.962 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	114501		
111	102.5	81.4	122.0	
192	25.6	19.4	29.0	

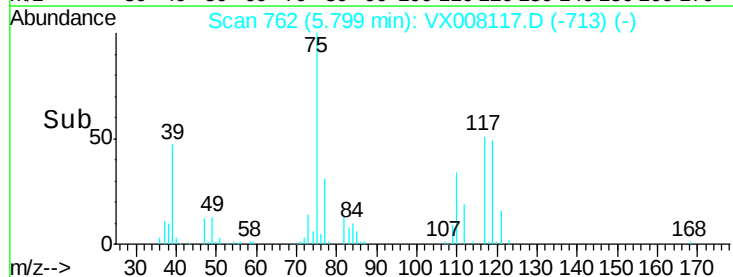
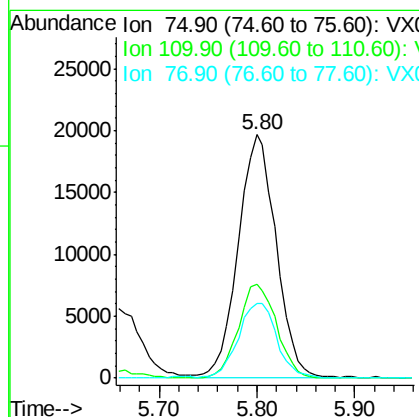
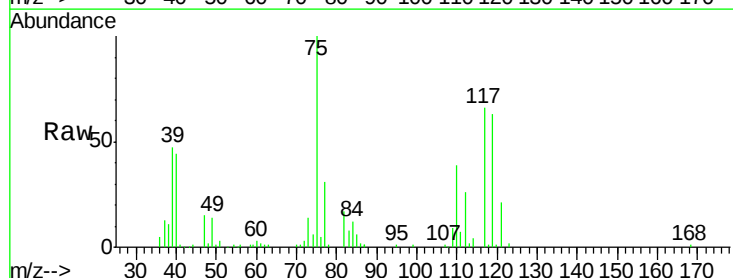
Manual Integrations
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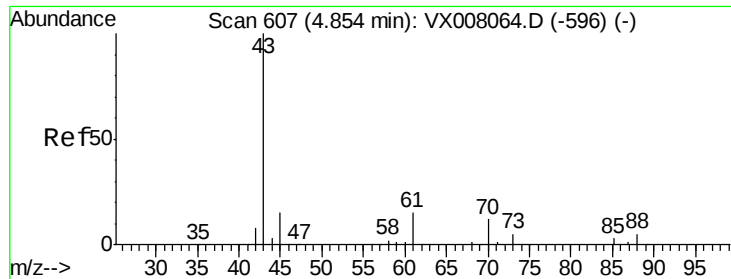
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 17.362 ug/l
 RT: 5.80 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	52673		
110	39.0	18.4	55.0	
77	31.5	25.0	37.4	





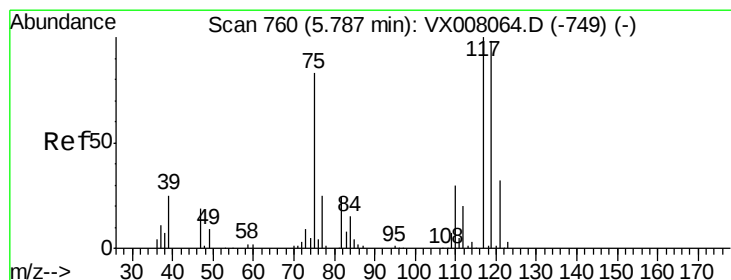
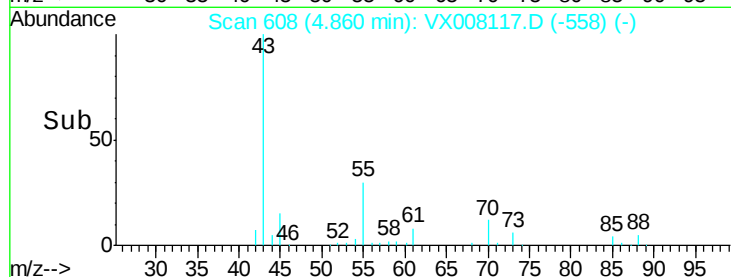
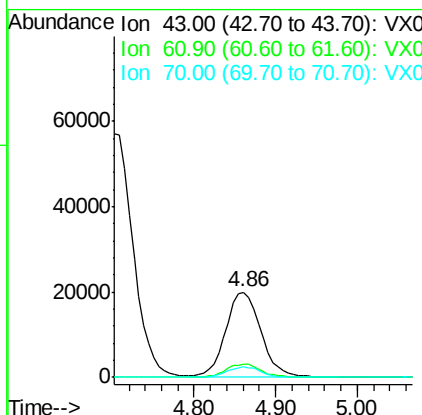
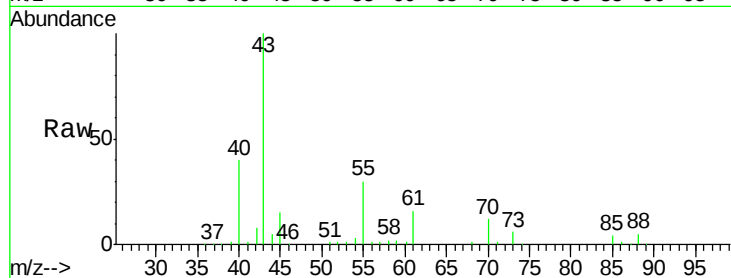
#37
Ethyl Acetate
Concen: 18.232 ug/l
RT: 4.86 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleID :
VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.3	16.9
70	11.8	8.5	12.7

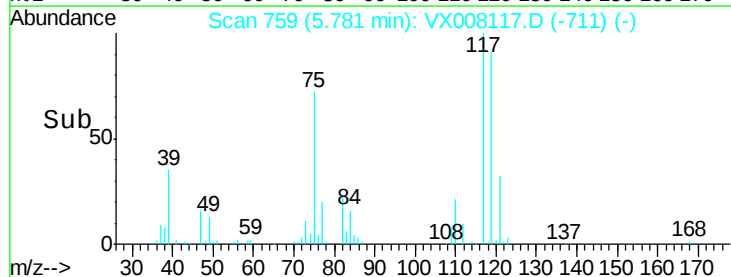
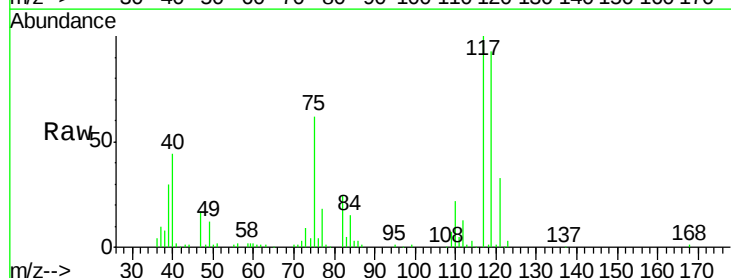
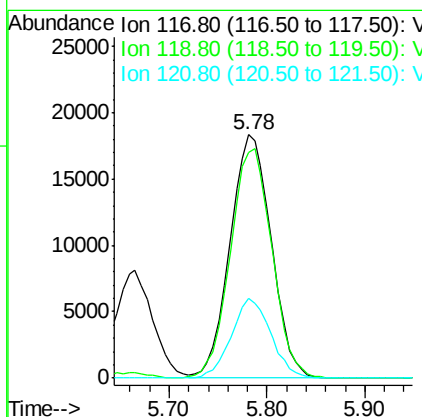
Manual Integrations
APPROVED

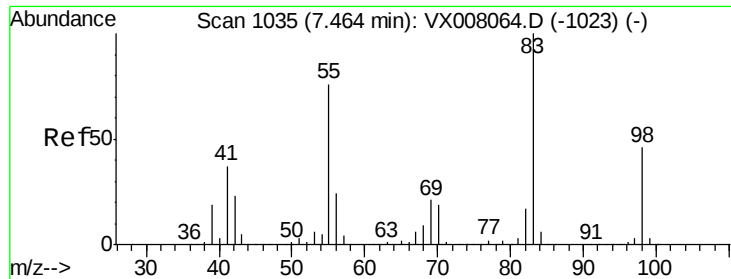
MMDadoda
3/16/2019 10:33:28 AM



#38
Carbon Tetrachloride
Concen: 18.385 ug/l
RT: 5.78 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.2	114.2
121	32.7	24.6	36.8





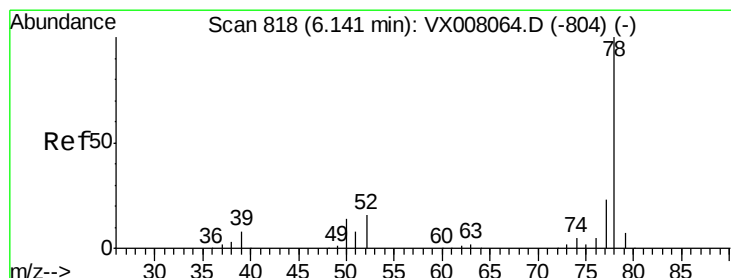
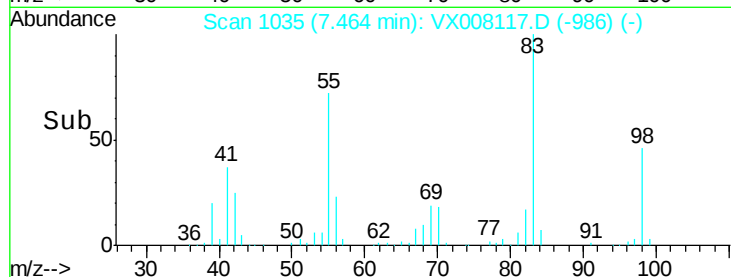
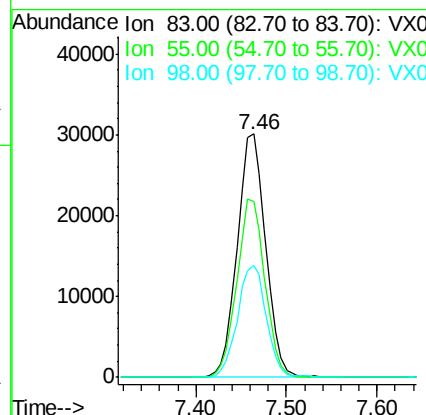
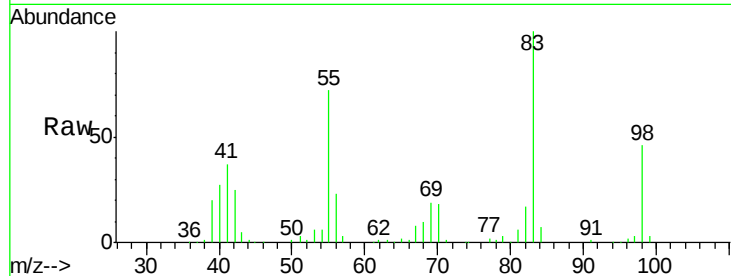
#39
Methylvlcyclohexane
Concen: 16.874 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.1	60.4	90.6
98	45.7	36.5	54.7

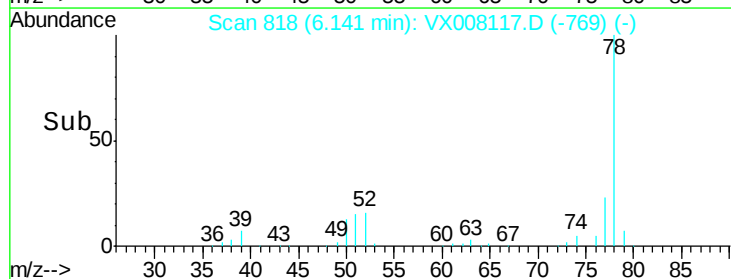
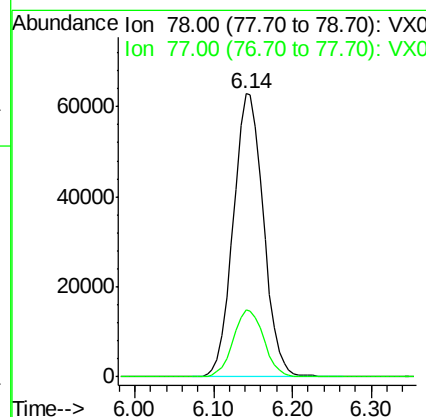
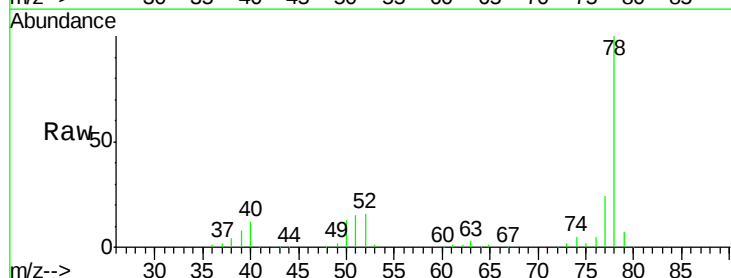
Manual Integrations
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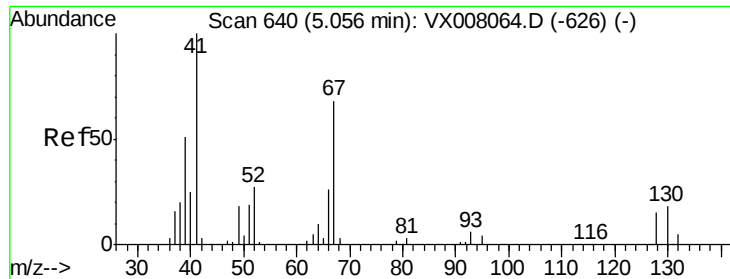
MMDadoda
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#40
Benzene
Concen: 18.029 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





#41

Methacrylonitrile

Concen: 17.482 ug/l

RT: 5.07 min Scan# 642

Delta R.T. 0.01 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 41 Resp: 33188

Ion Ratio Lower Upper

41 100

39 54.1 41.6 62.4

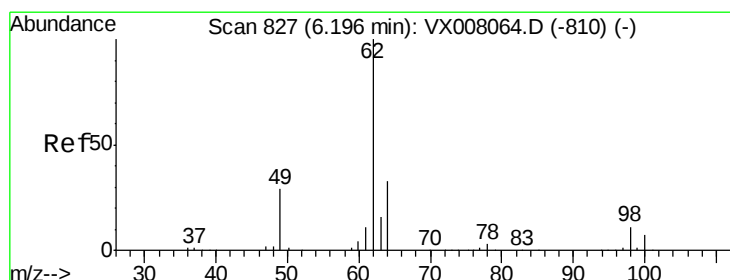
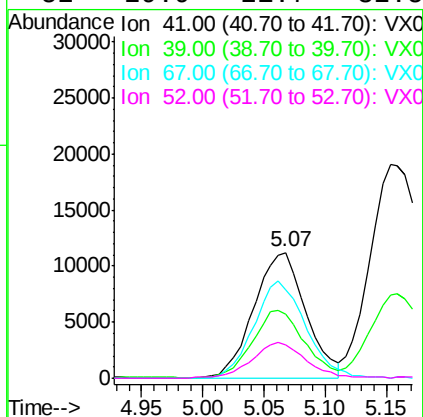
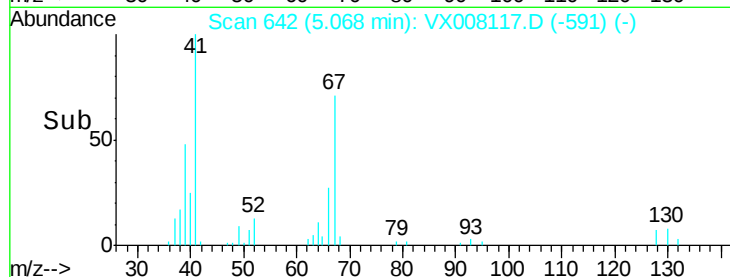
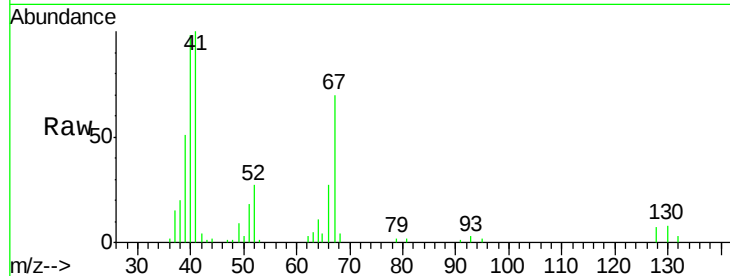
67 77.2 55.8 83.6

52 29.9 21.7 32.5

Manual Integrations
APPROVED

MMDadoda

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#42

1,2-Dichloroethane

Concen: 18.270 ug/l

RT: 6.20 min Scan# 827

Delta R.T. -0.00 min

Lab File: VX008117.D

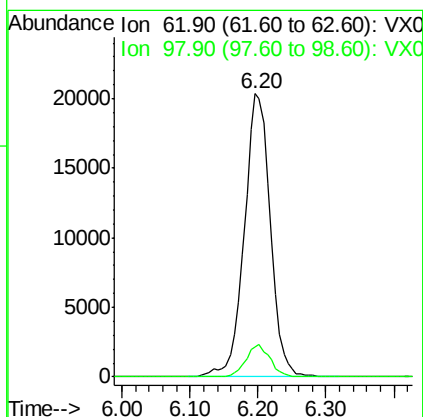
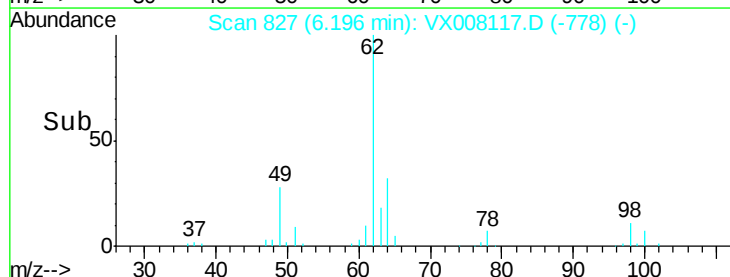
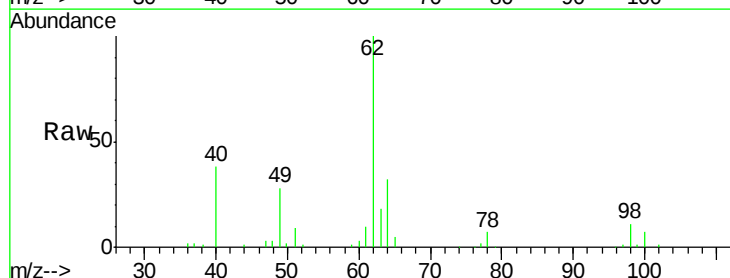
Acq: 15 Mar 2019 20:23

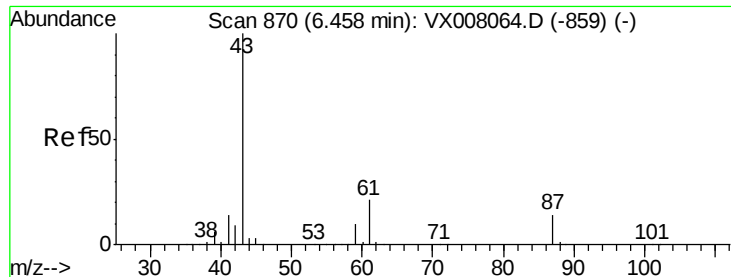
Tgt Ion: 62 Resp: 54319

Ion Ratio Lower Upper

62 100

98 10.6 0.0 20.4





#43

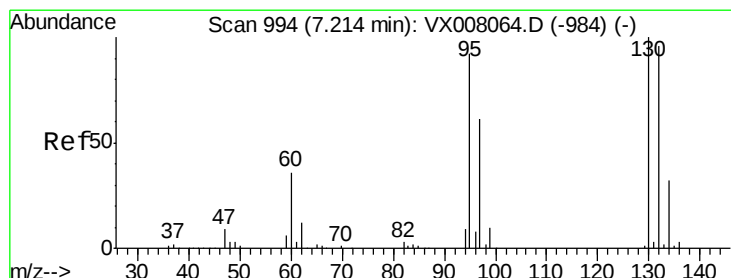
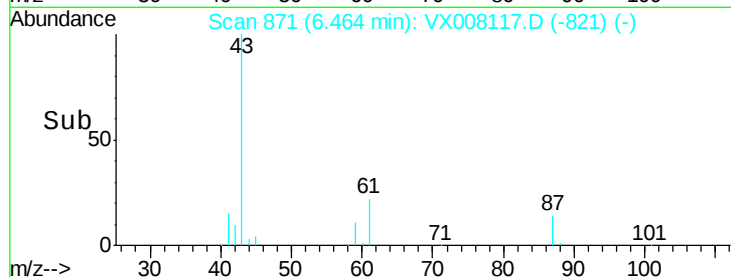
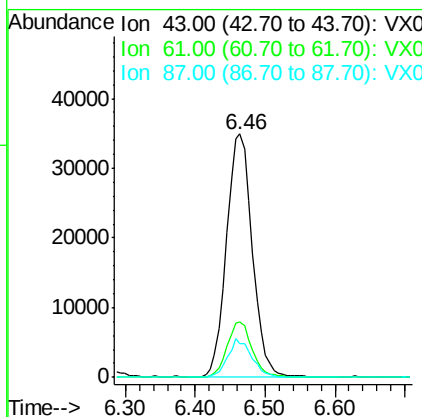
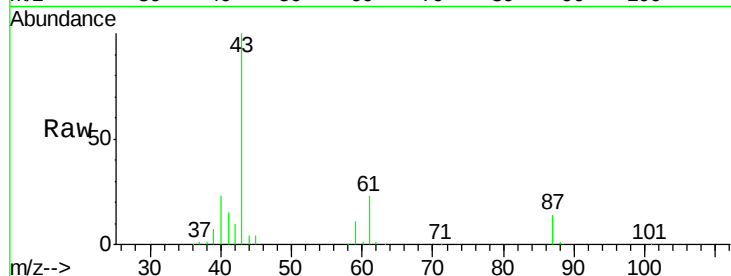
Isopropyl Acetate
 Concen: 17.109 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.8	16.3	24.5
87	14.6	10.5	15.7

Manual Integrations
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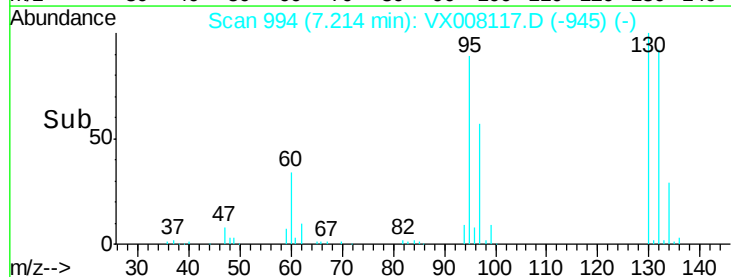
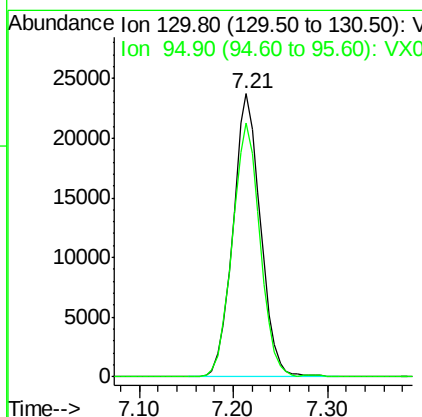
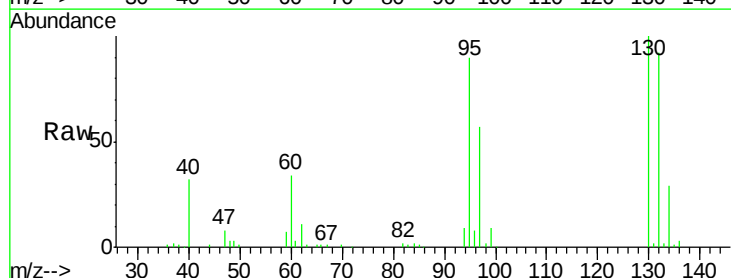
MMDadoda
 3/16/2019 10:33:28 AM

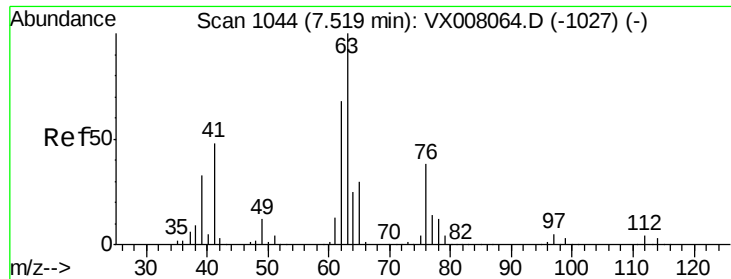


#44

Trichloroethene
 Concen: 17.892 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.6	0.0	188.0





#45

1,2-Dichloropropane

Concen: 17.416 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 63 Resp: 42704

Ion Ratio Lower Upper

63 100

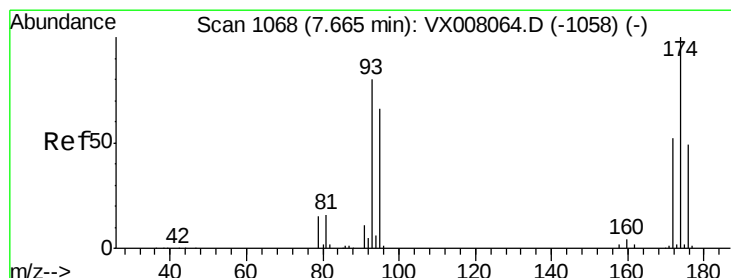
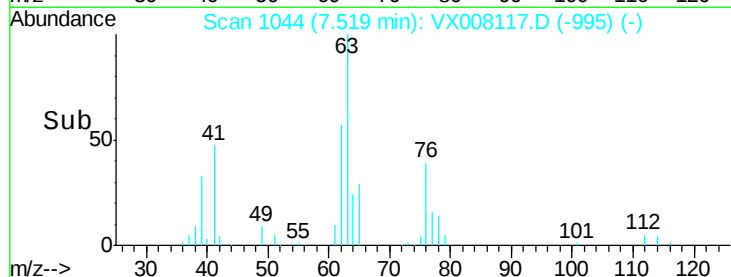
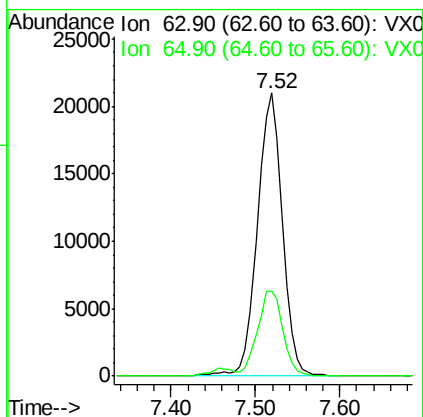
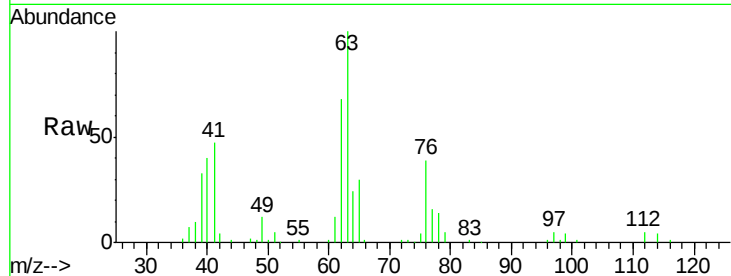
65 30.2 24.7 37.1

Manual Integrations

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#46

Dibromomethane

Concen: 18.609 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

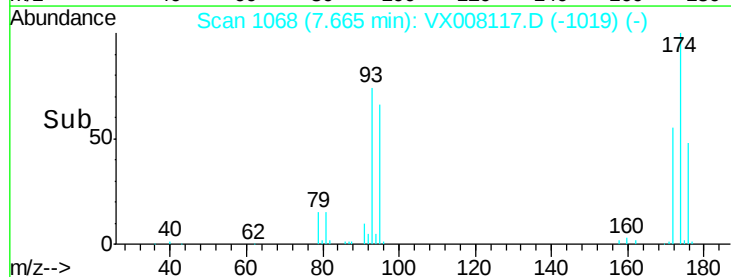
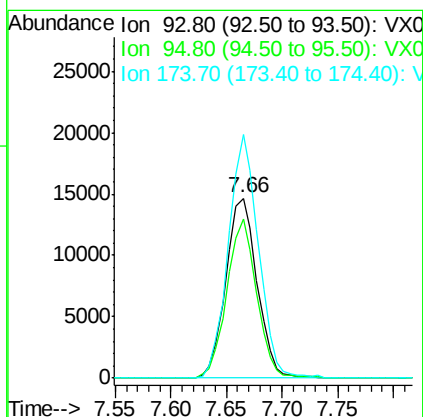
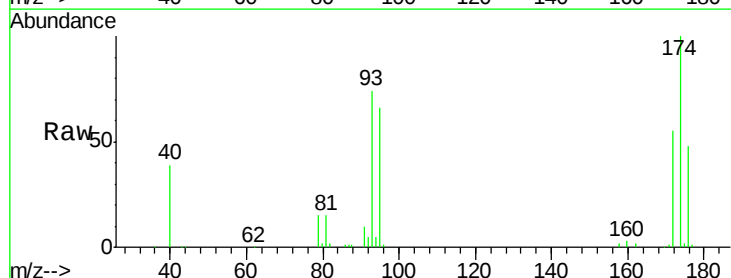
Tgt Ion: 93 Resp: 28599

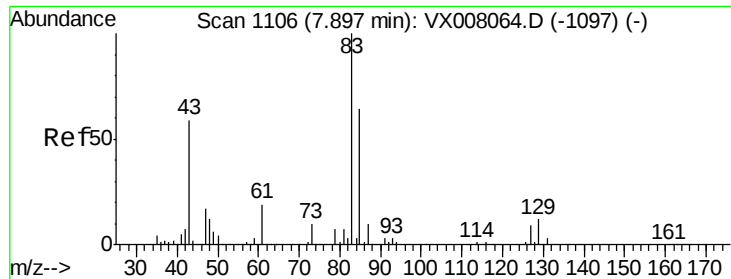
Ion Ratio Lower Upper

93 100

95 84.2 66.8 100.2

174 130.2 97.3 145.9





#47

Bromodichloromethane

Concen: 17.584 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

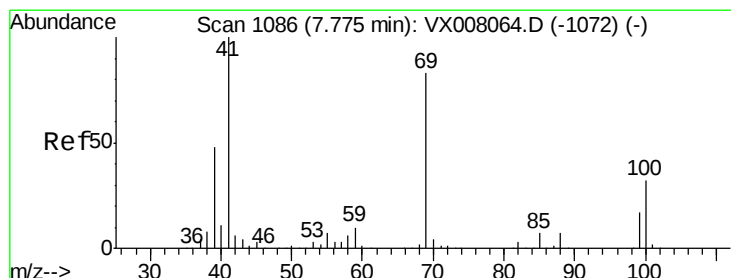
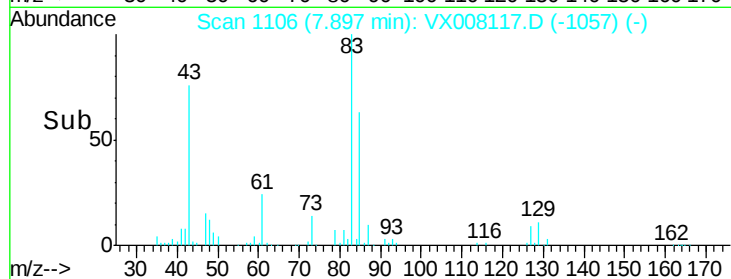
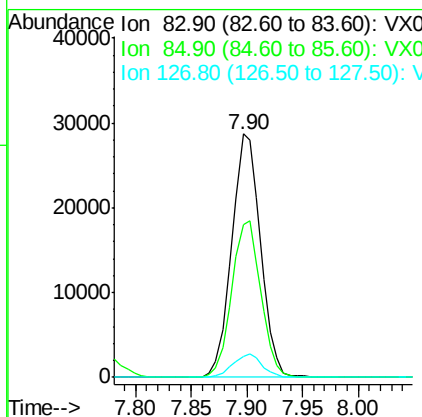
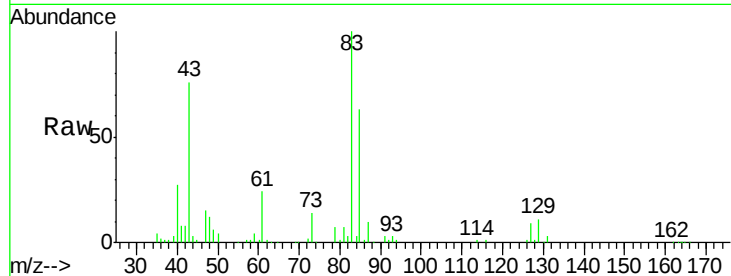
ClientSampleId :

VX0315WBSD02

Tot Ion:	83	Resp:	51393
Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.9	76.3
127	8.8	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.528 ug/l

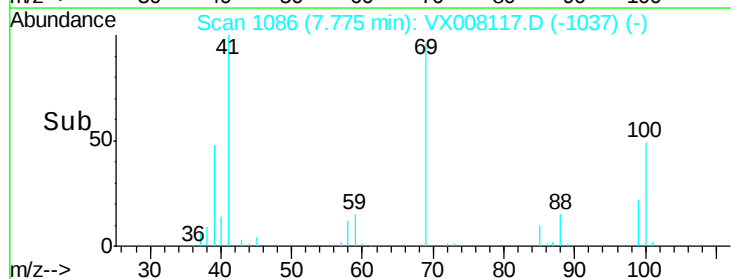
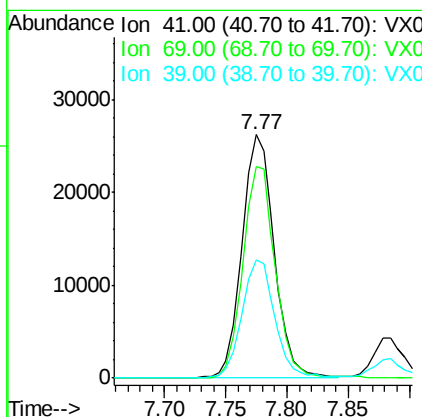
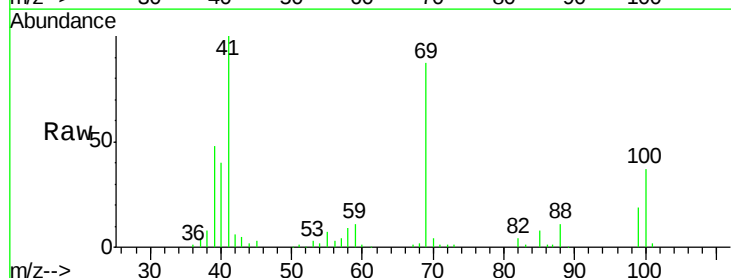
RT: 7.77 min Scan# 1086

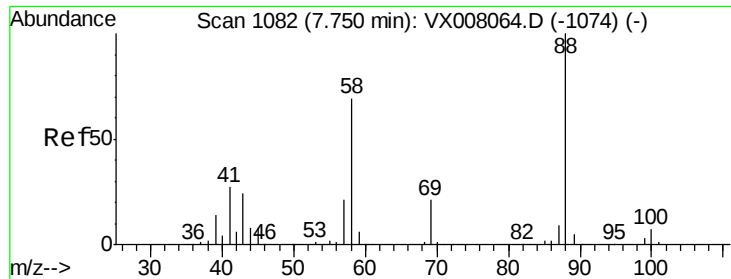
Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion:	41	Resp:	48070
Ion	Ratio	Lower	Upper
41	100		
69	87.5	65.2	97.8
39	49.8	39.4	59.2





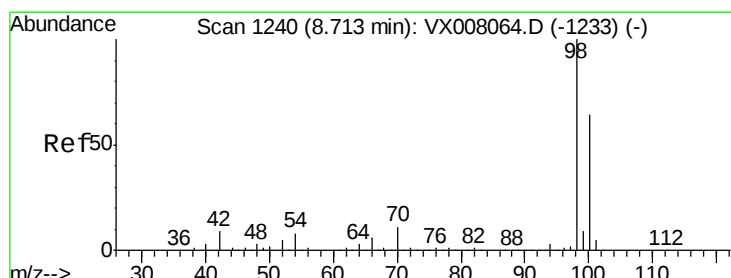
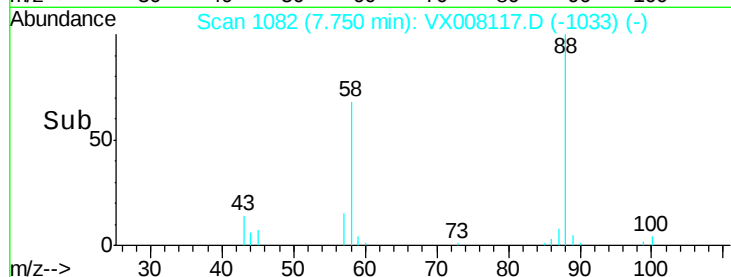
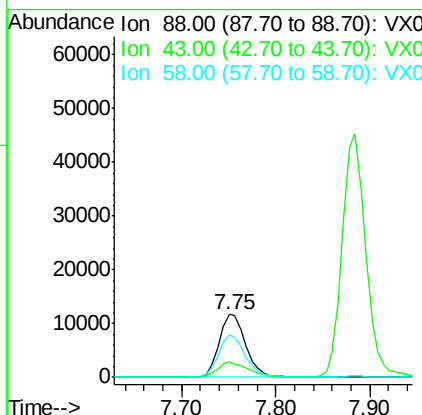
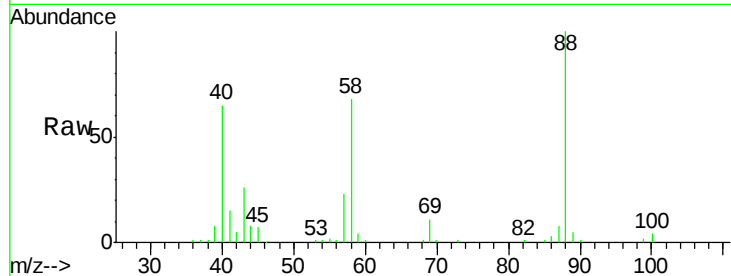
#49
1,4-Dioxane
Concen: 386.980 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.5	25.1	37.7
58	68.5	57.8	86.6

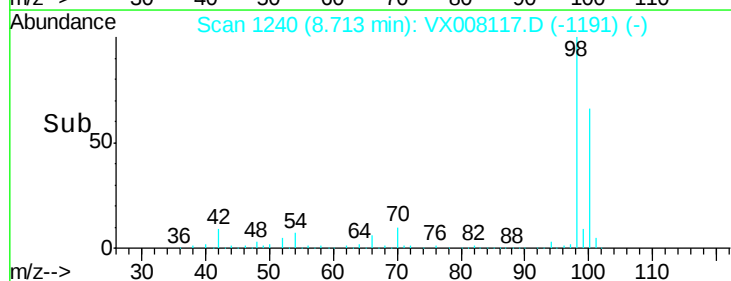
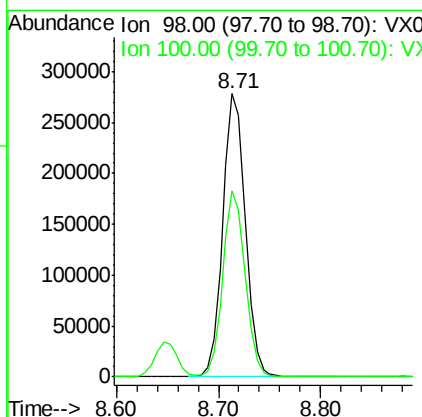
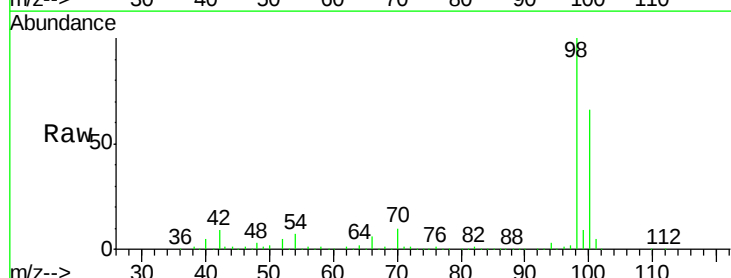
Manual Integrations
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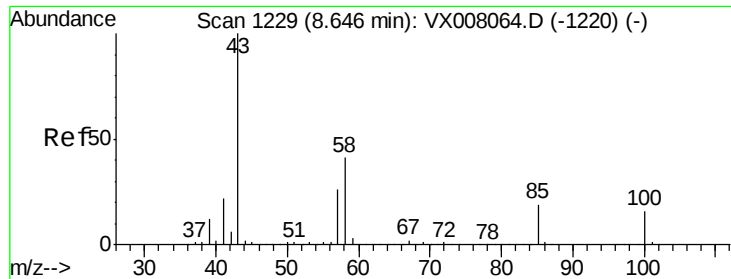
MMDadoda
3/16/2019 10:33:28 AM



#50
Toluene-d8
Concen: 48.059 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 87.547 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 43 Resp: 302985

Ion Ratio Lower Upper

43 100

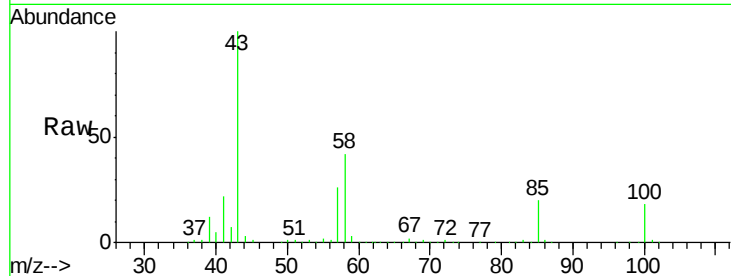
58 41.3 31.3 46.9

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.65

200000

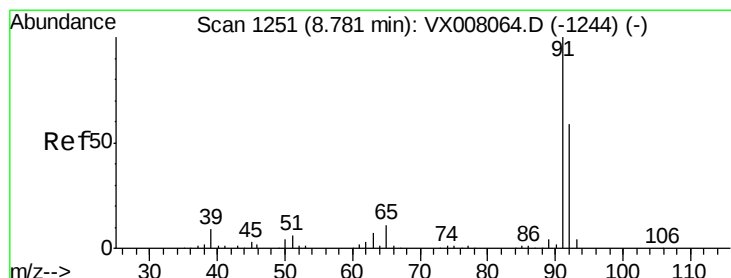
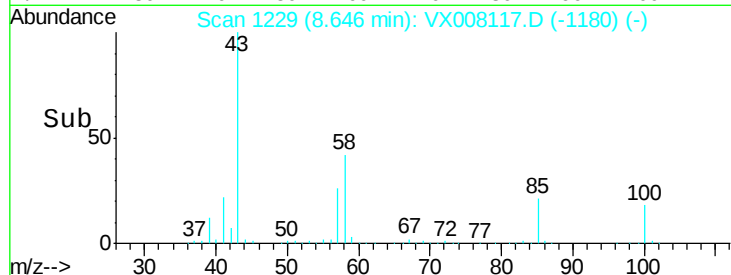
150000

100000

50000

0

Time--> 8.55 8.60 8.65 8.70



#52

Toluene

Concen: 17.498 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008117.D

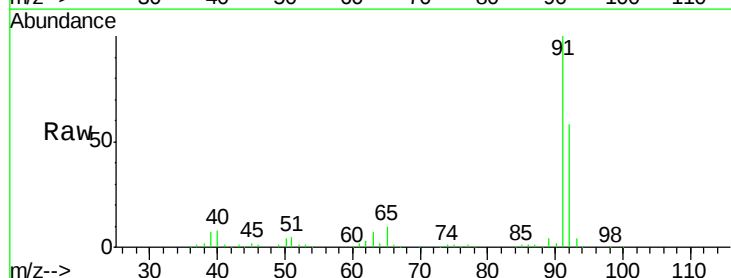
Acq: 15 Mar 2019 20:23

Tgt Ion: 92 Resp: 103377

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

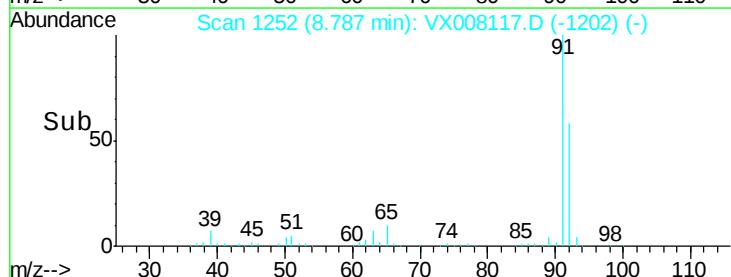
8.79

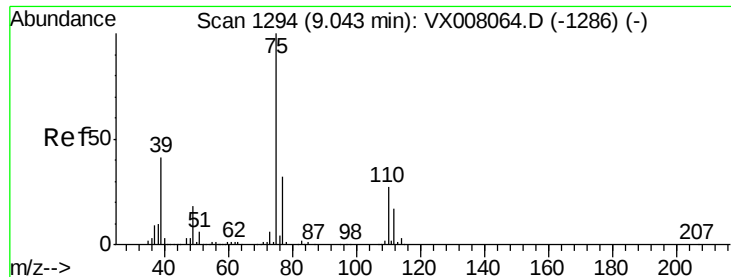
100000

50000

0

Time--> 8.70 8.80 8.90





#53

t-1,3-Dichloropropene

Concen: 16.712 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 75 Resp: 53545

Ion Ratio Lower Upper

75 100

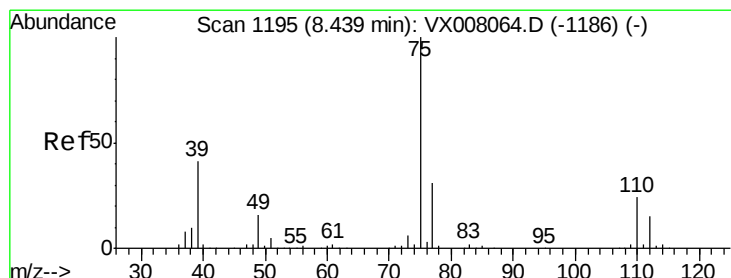
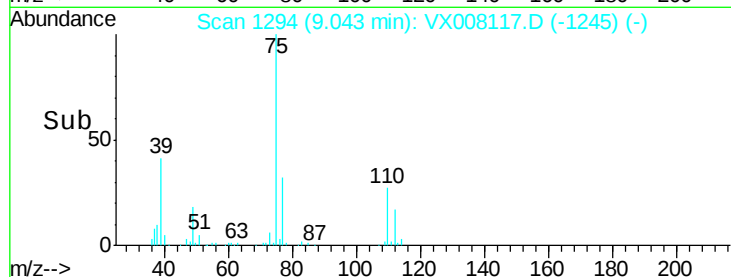
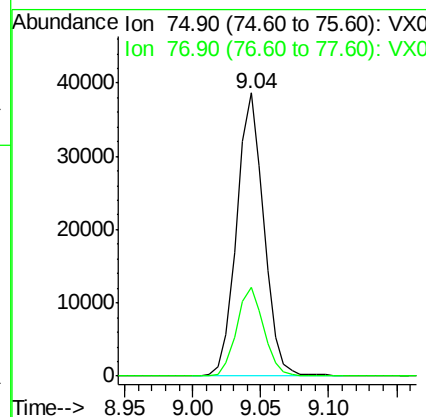
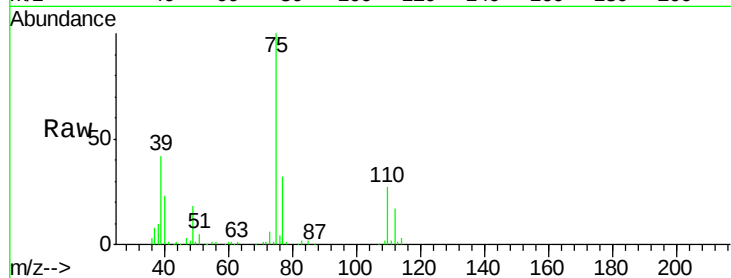
77 31.5 25.4 38.0

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#54

cis-1,3-Dichloropropene

Concen: 17.125 ug/l

RT: 8.44 min Scan# 1195

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

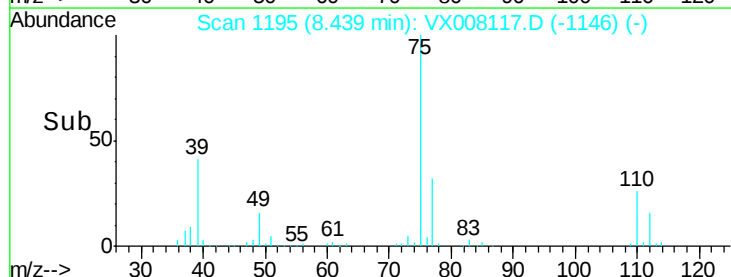
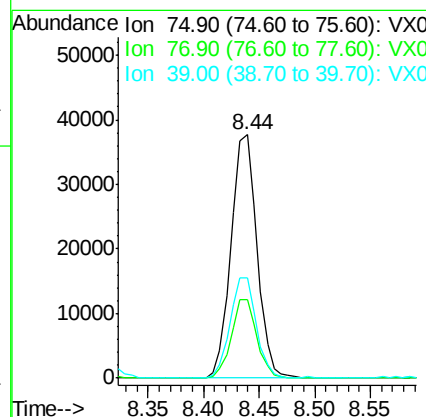
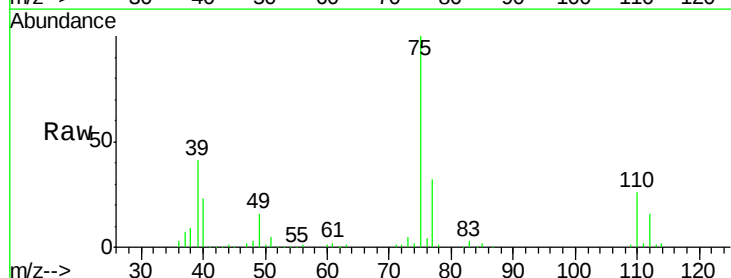
Tgt Ion: 75 Resp: 60979

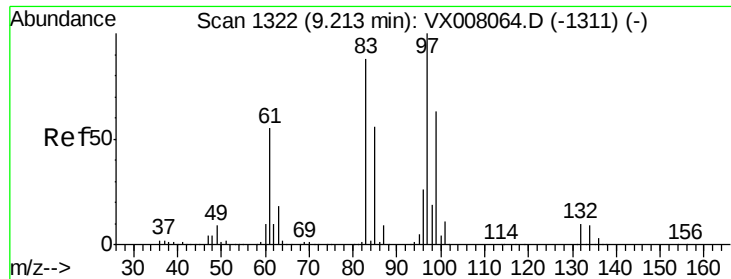
Ion Ratio Lower Upper

75 100

77 32.1 25.0 37.6

39 41.3 36.6 54.8





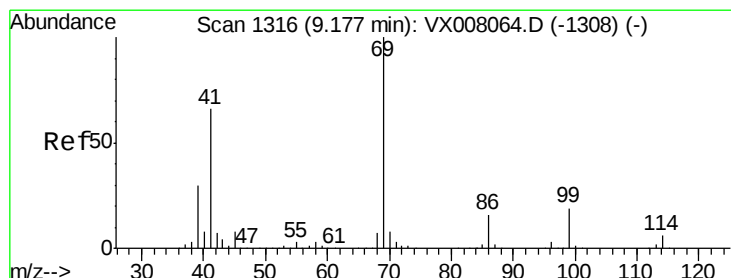
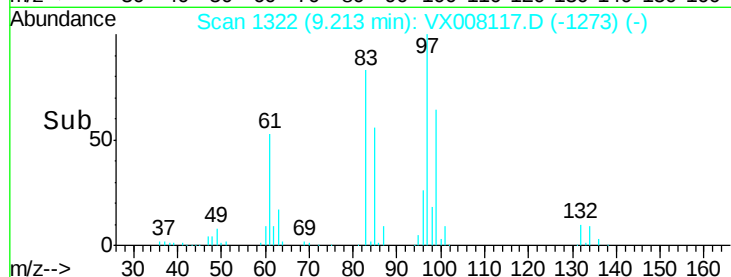
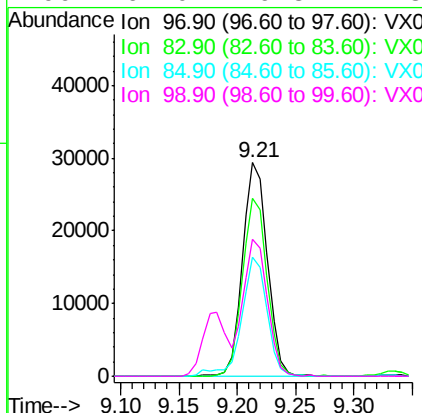
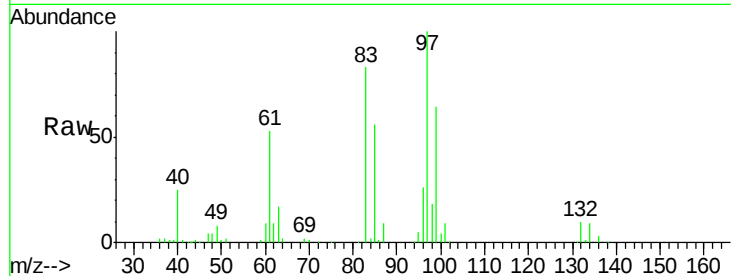
#55
 1,1,2-Trichloroethane
 Concen: 18.276 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion:	97	Resp:	43964
Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.1	103.7
85	55.4	44.3	66.5
99	64.0	49.8	74.8

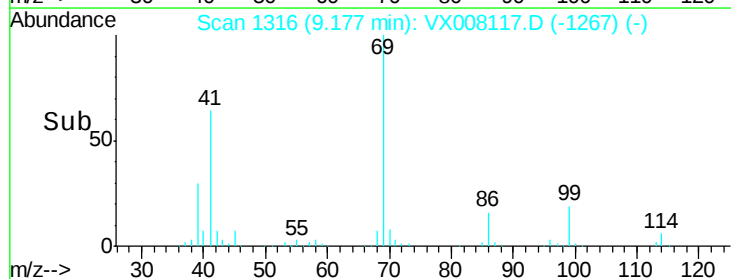
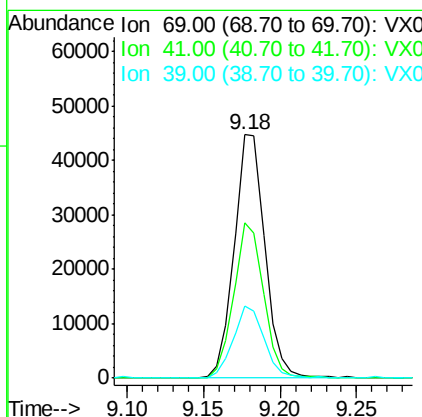
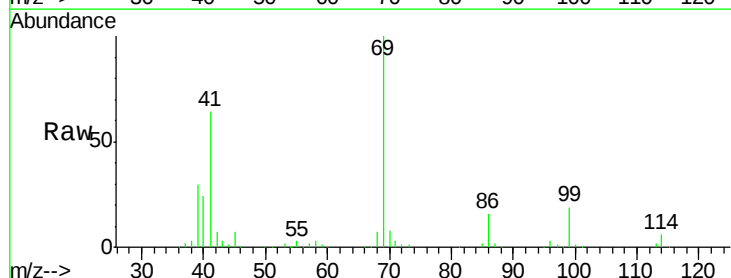
Manual Integrations
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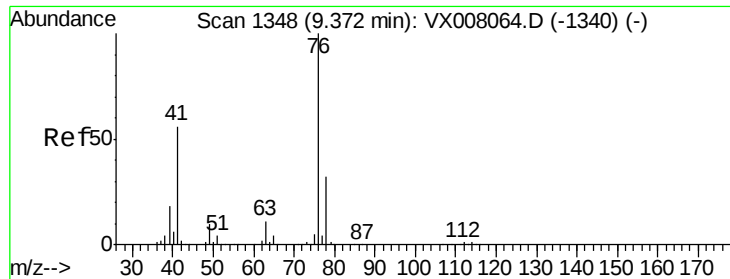
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 17.546 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion:	69	Resp:	62345
Ion	Ratio	Lower	Upper
69	100		
41	63.1	54.2	81.4
39	30.1	25.0	37.4





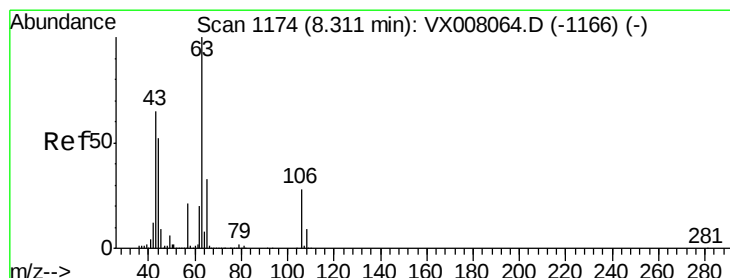
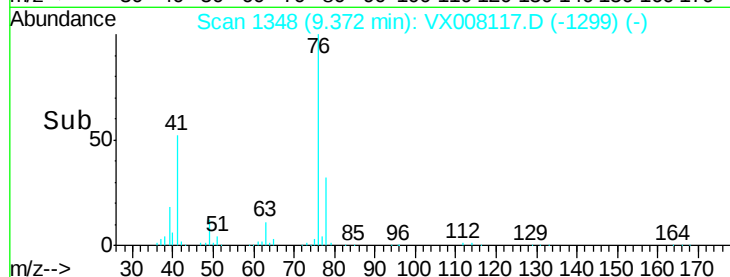
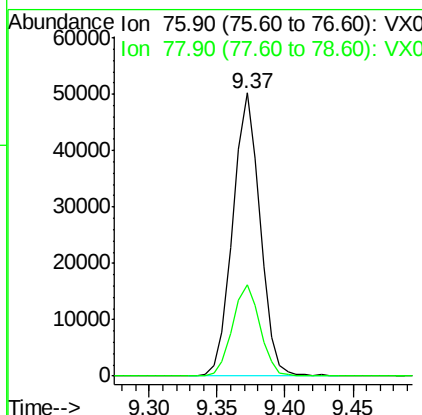
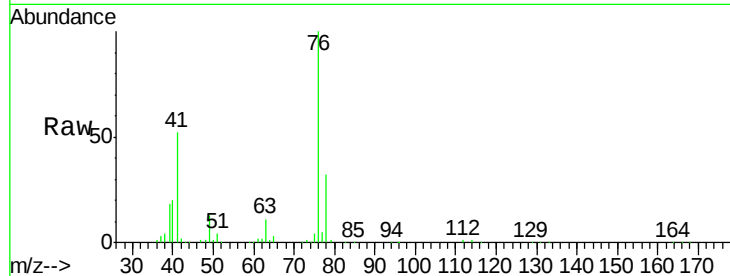
#57
 1,3-Dichloropropane
 Concen: 17.640 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion: 76 Resp: 70226
 Ion Ratio Lower Upper
 76 100
 78 32.7 25.5 38.3

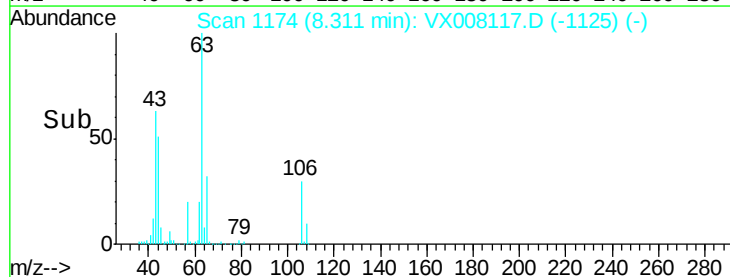
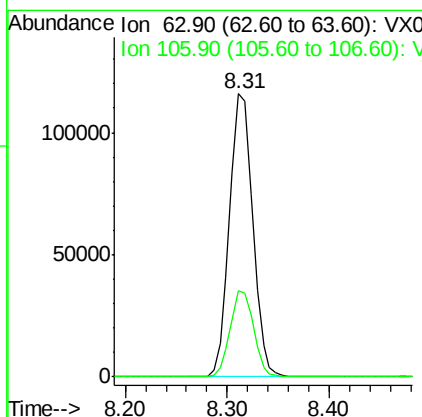
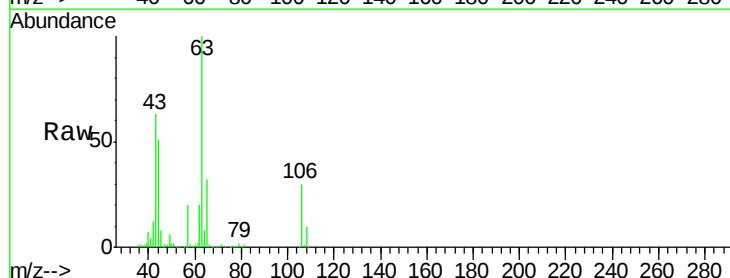
Manual Integrations
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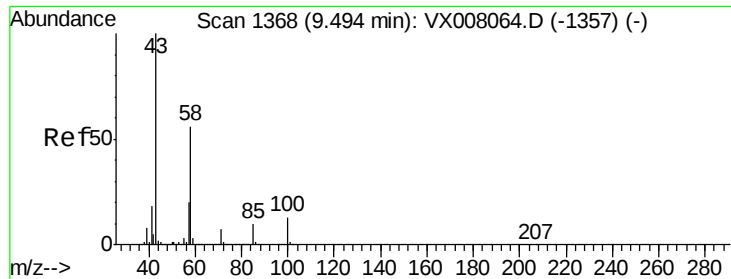
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 87.827 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion: 63 Resp: 183596
 Ion Ratio Lower Upper
 63 100
 106 30.5 22.2 33.2





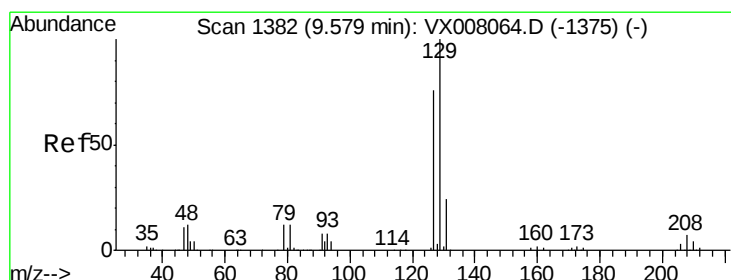
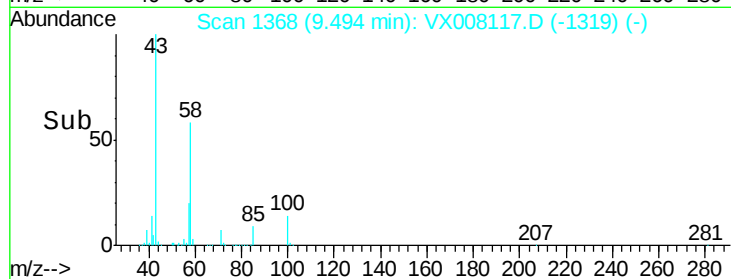
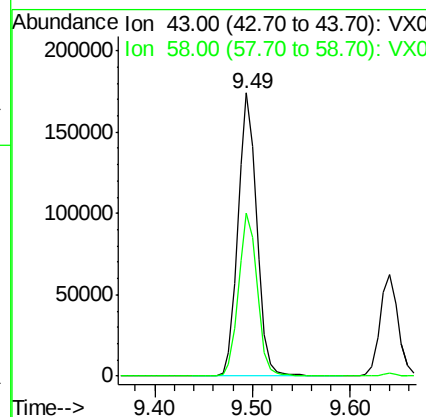
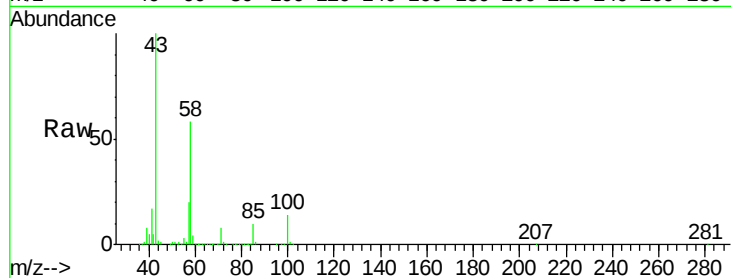
#59
2-Hexanone
Concen: 85.605 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion: 43 Resp: 231698
Ion Ratio Lower Upper
43 100
58 57.5 27.6 82.7

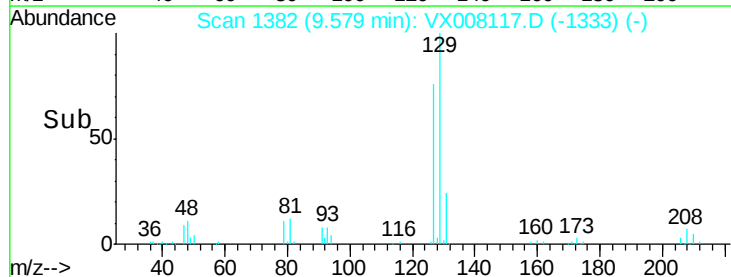
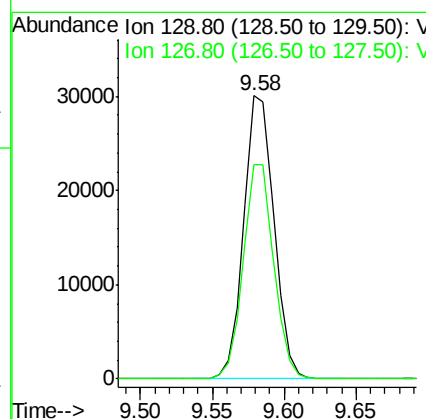
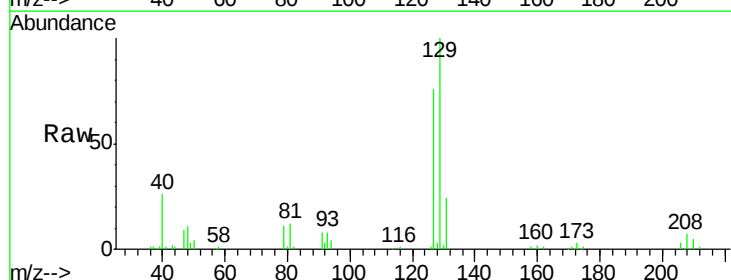
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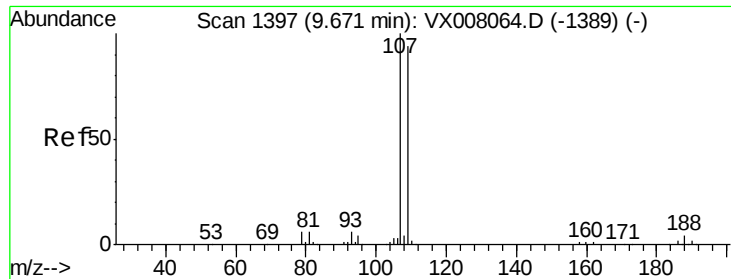
MMDadoda
3/16/2019 10:33:28 AM



#60
Dibromochloromethane
Concen: 17.704 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion: 129 Resp: 43893
Ion Ratio Lower Upper
129 100
127 76.1 38.3 114.8





#61

1,2-Dibromoethane

Concen: 18.207 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion:107 Resp: 45892

Ion Ratio Lower Upper

107 100

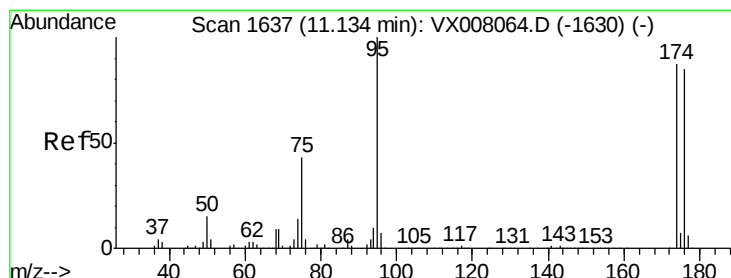
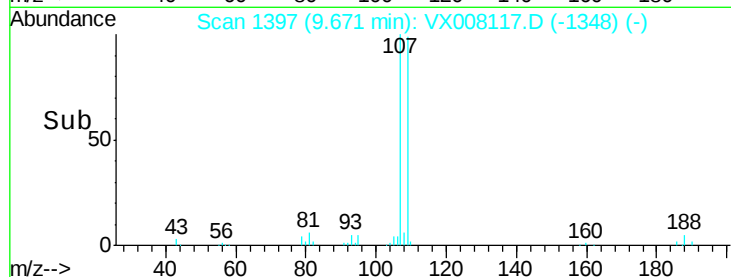
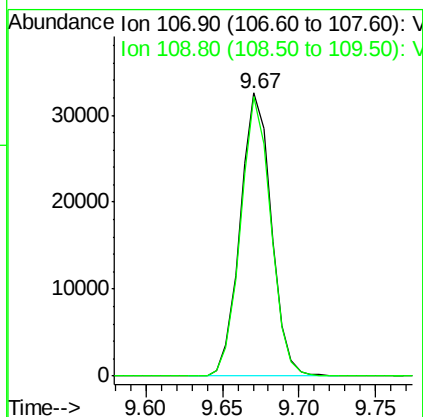
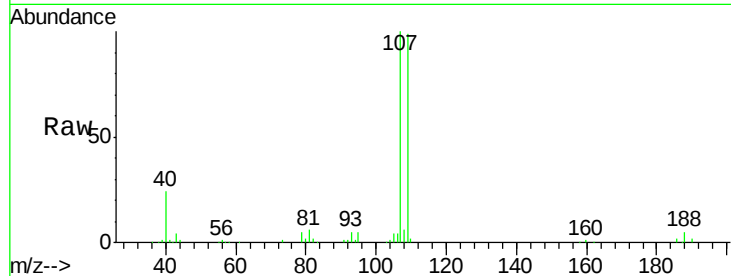
109 96.3 75.8 113.8

Manual Integrations

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MMDadoda

3/16/2019 10:33:28 AM



#62

4-Bromofluorobenzene

Concen: 46.273 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

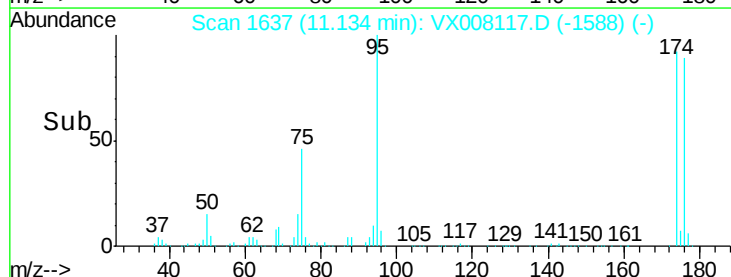
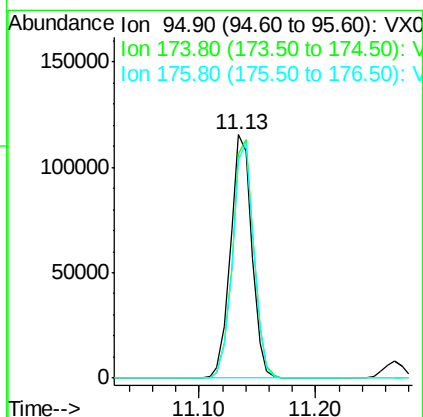
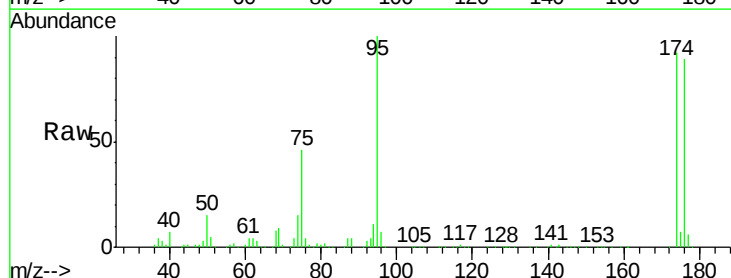
Tgt Ion: 95 Resp: 147437

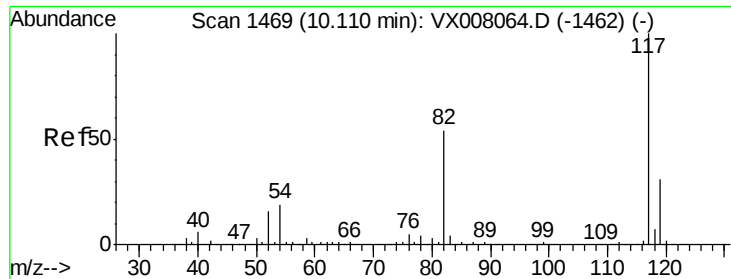
Ion Ratio Lower Upper

95 100

174 97.7 0.0 182.8

176 96.1 0.0 178.0





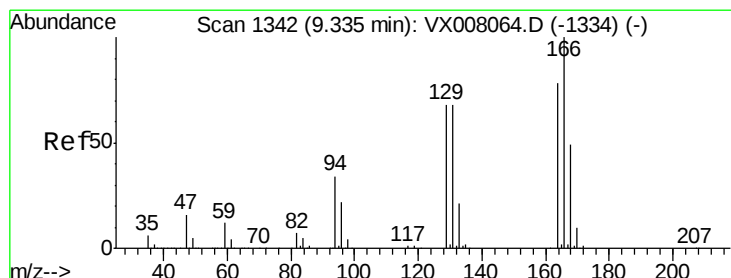
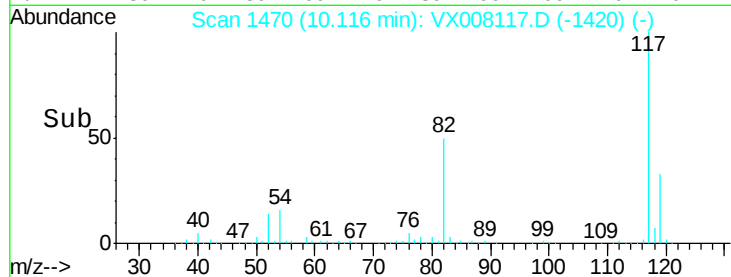
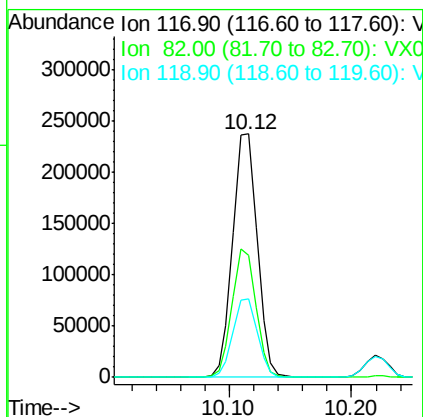
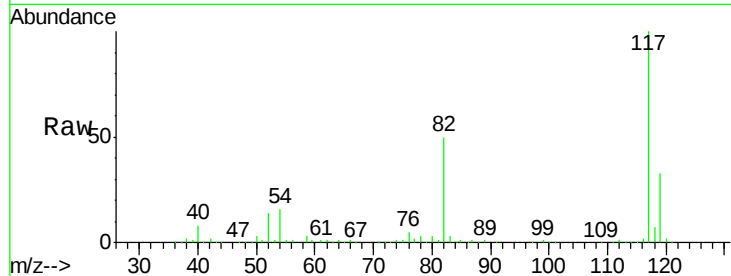
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	329152		
82	50.0	44.3	66.5	
119	32.5	25.3	37.9	

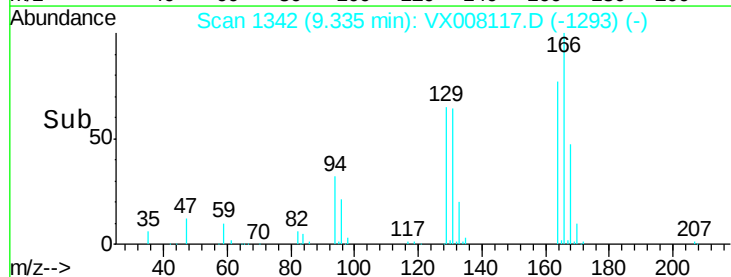
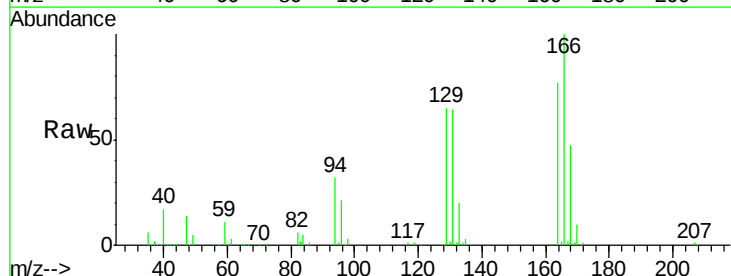
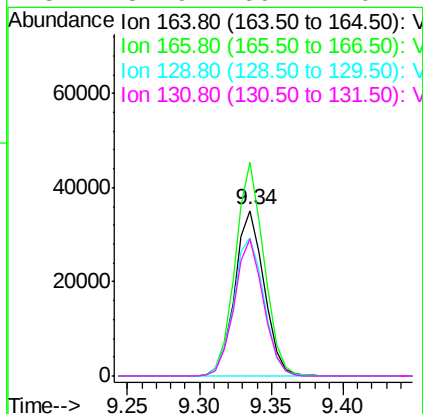
Manual Integrations
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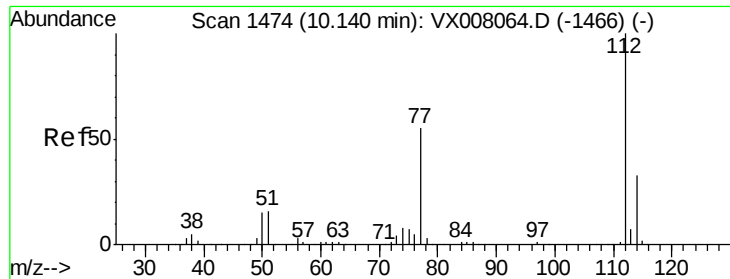
MMDadoda
3/16/2019 10:33:28 AM



#64
Tetrachloroethene
Concen: 18.668 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	49785		
166	129.3	103.4	155.0	
129	83.8	72.2	108.4	
131	82.9	69.4	104.2	





#65

Chlorobenzene

Concen: 17.913 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion:112 Resp: 117004

Ion Ratio Lower Upper

112 100

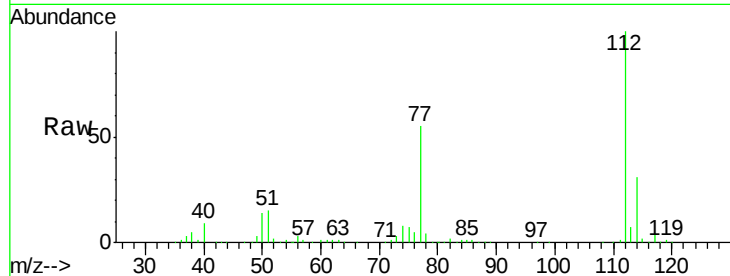
114 30.8 26.0 39.0

Manual Integrations

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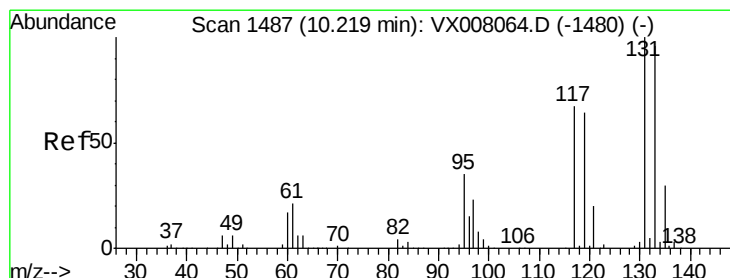
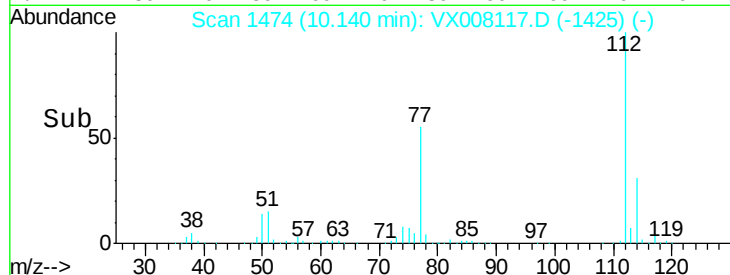
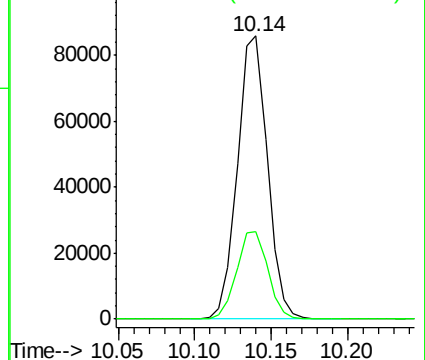
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.277 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

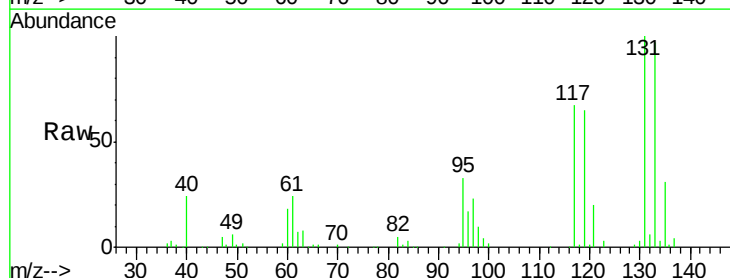
Tgt Ion:131 Resp: 42369

Ion Ratio Lower Upper

131 100

133 96.7 47.8 143.3

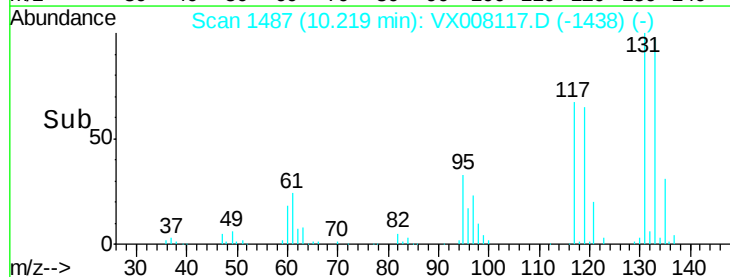
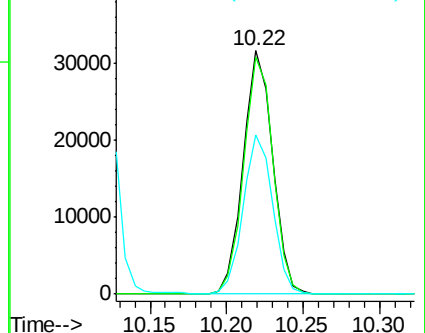
119 65.0 32.5 97.5

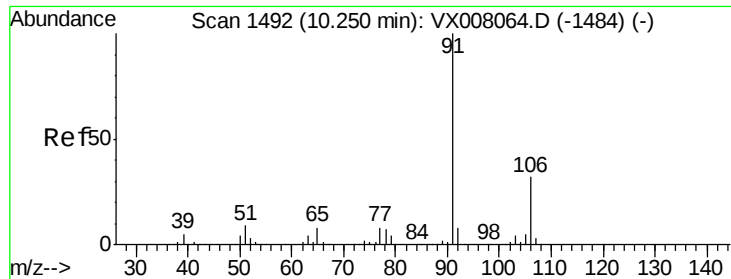


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





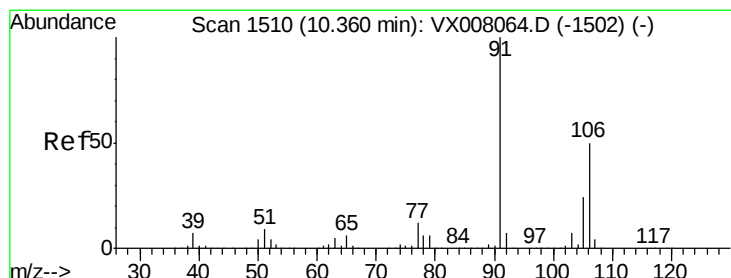
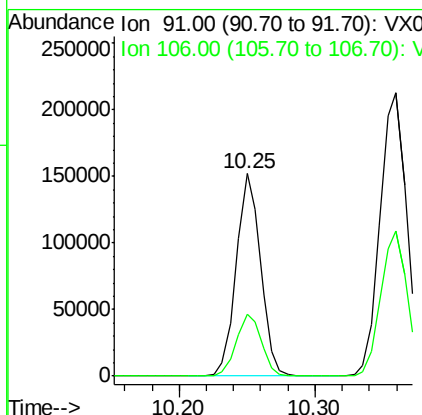
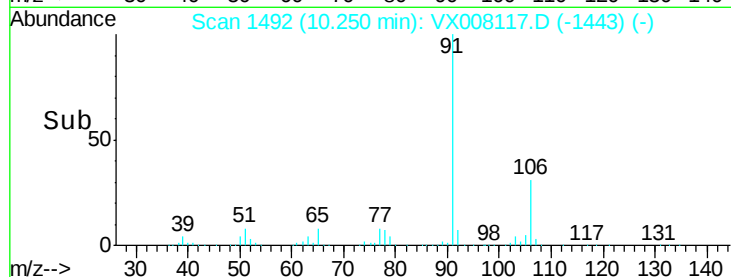
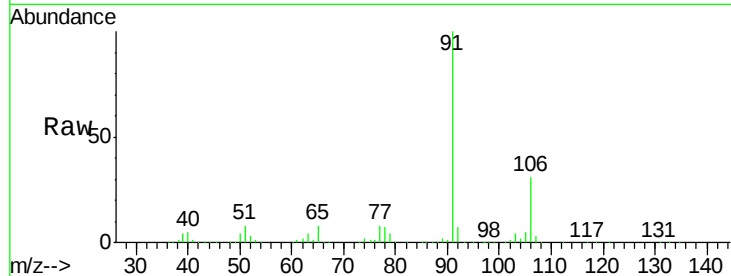
#67
Ethyl Benzene
Concen: 17.574 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion: 91 Resp: 189999
Ion Ratio Lower Upper
91 100
106 30.9 25.2 37.8

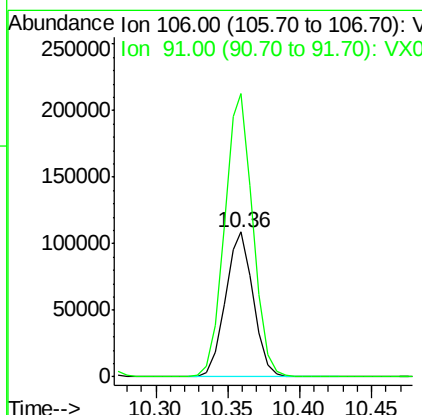
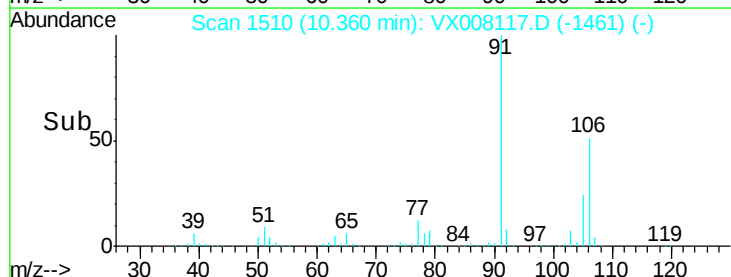
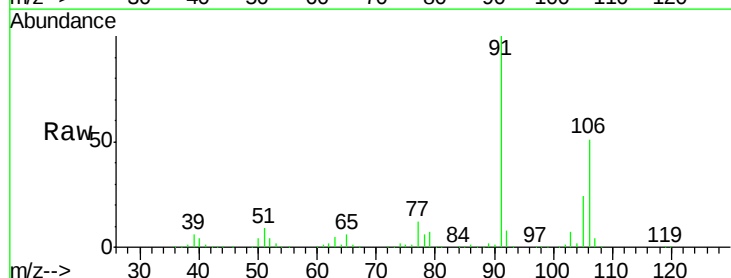
Manual Integrations
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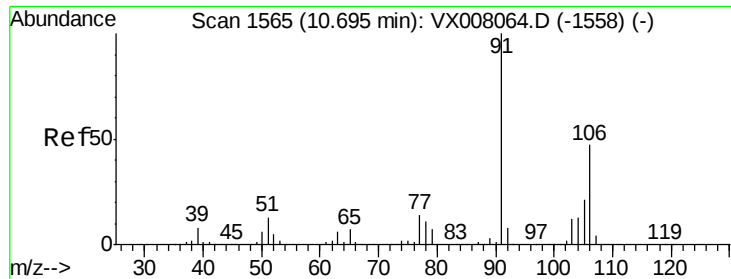
MMDadoda
3/16/2019 10:33:28 AM



#68
m/p-Xylenes
Concen: 35.788 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion: 106 Resp: 148054
Ion Ratio Lower Upper
106 100
91 198.2 159.8 239.6





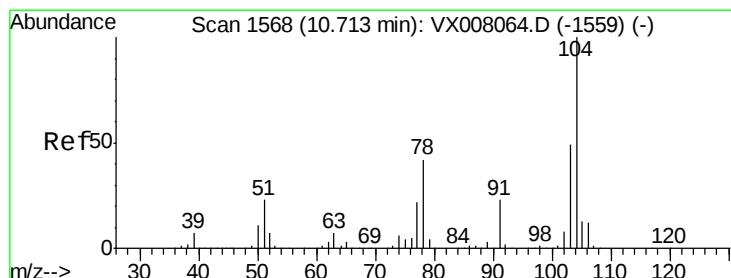
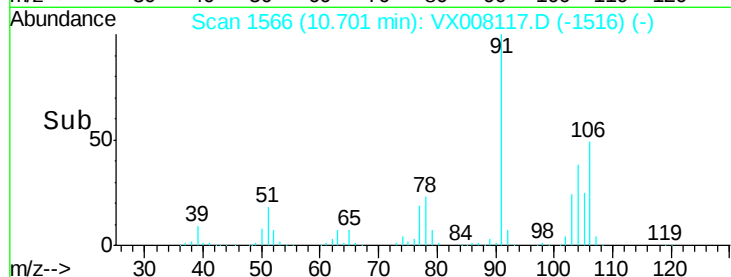
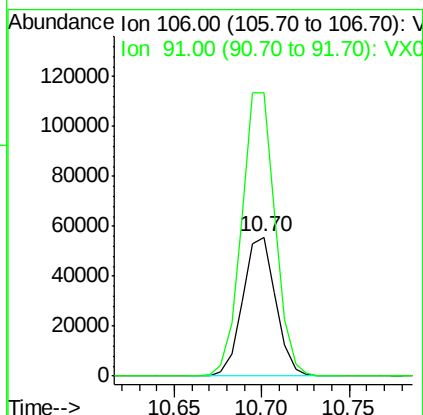
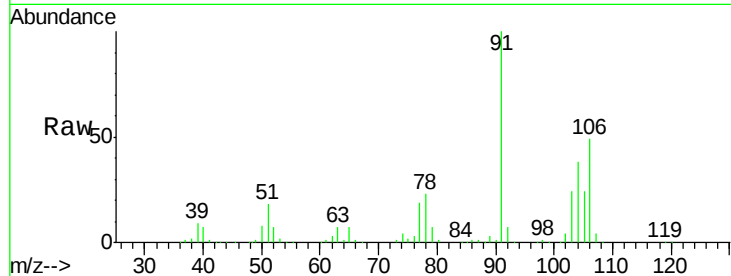
#69
o-Xylene
Concen: 18.050 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion:106 Resp: 72794
Ion Ratio Lower Upper
106 100
91 208.0 106.3 318.9

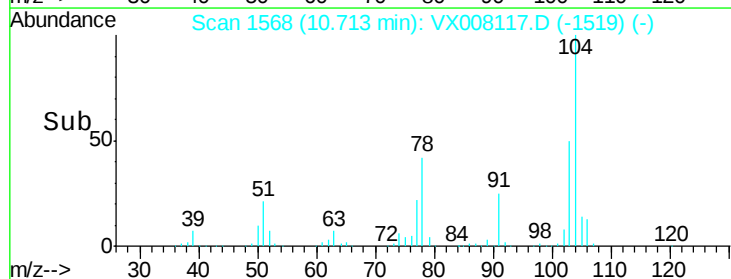
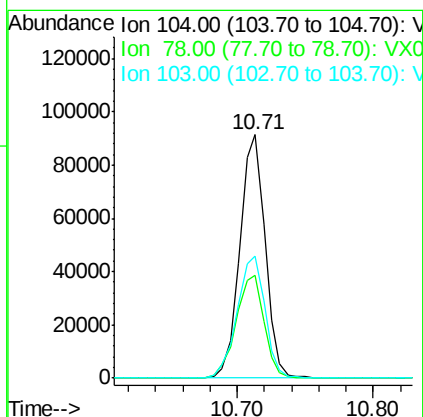
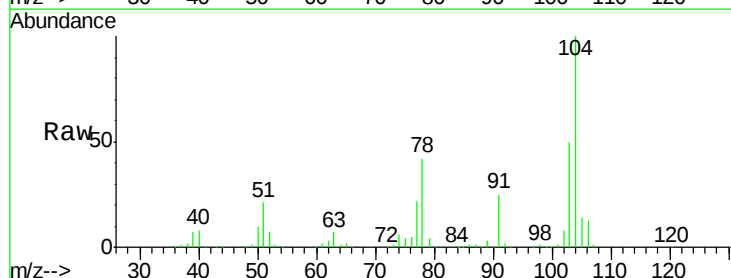
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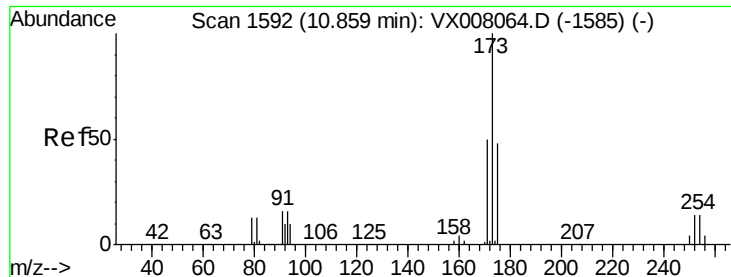
MMDadoda
3/16/2019 10:33:28 AM



#70
Styrene
Concen: 17.926 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion:104 Resp: 118435
Ion Ratio Lower Upper
104 100
78 47.0 38.5 57.7
103 55.7 44.1 66.1





#71

Bromoform

Concen: 18.119 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion:173 Resp: 34758

Ion Ratio Lower Upper

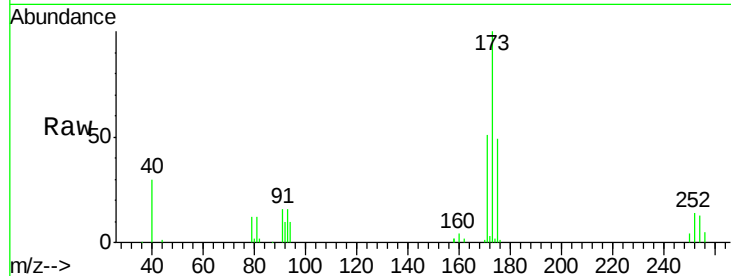
173 100

175 48.5 24.3 72.9

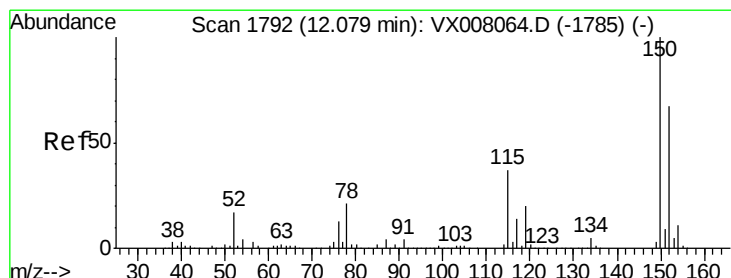
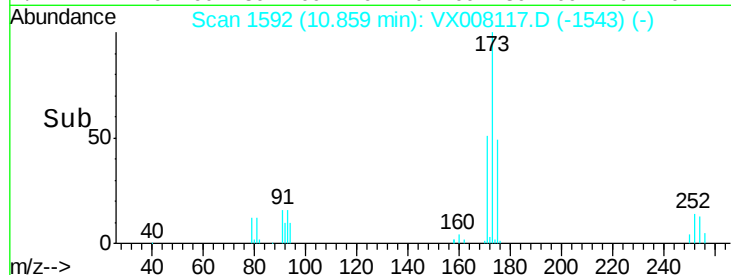
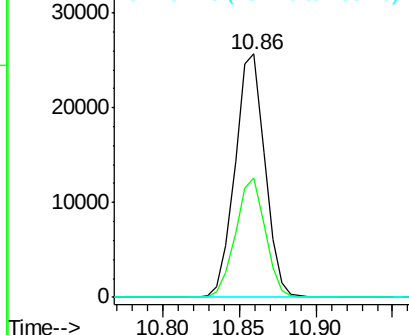
254 0.0 0.1 0.1#

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3/16/2019 10:33:28 AM



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: VX008117.D

Acq: 15 Mar 2019 20:23

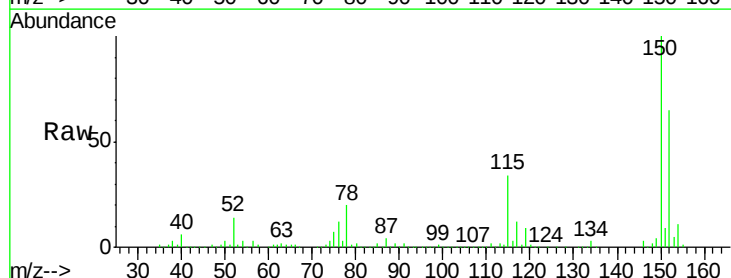
Tgt Ion:152 Resp: 166794

Ion Ratio Lower Upper

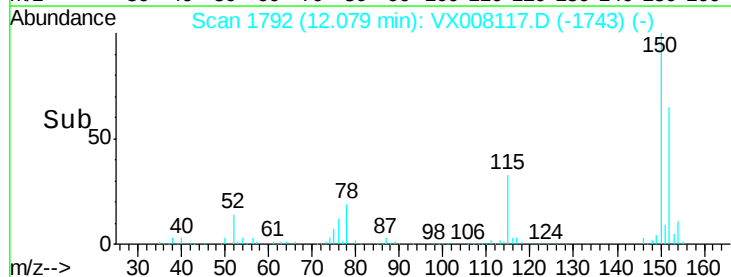
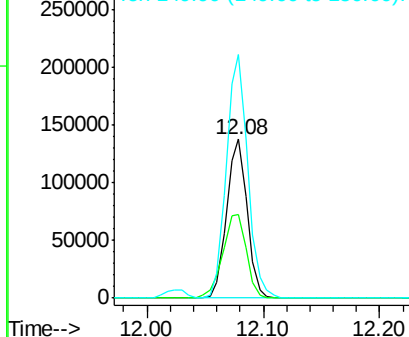
152 100

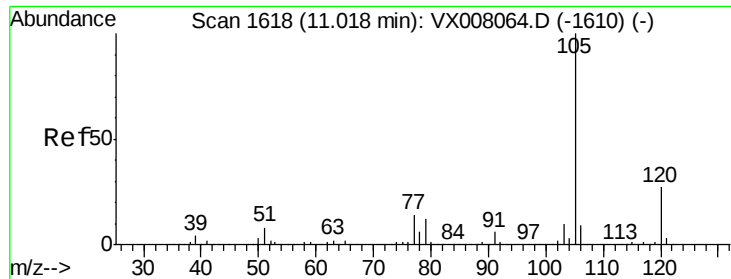
115 60.6 38.6 115.7

150 160.1 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: 18.009 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 105 Resp: 192394

Ion Ratio Lower Upper

105 100

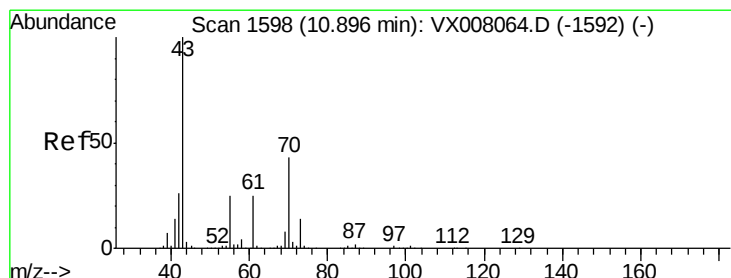
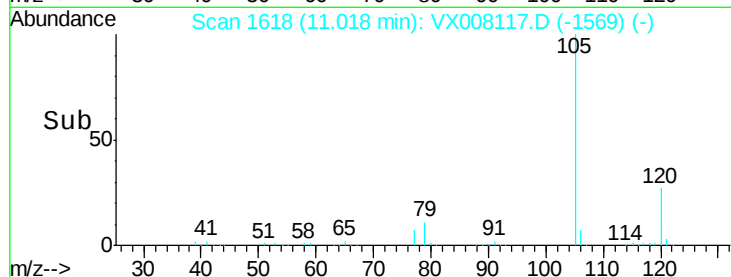
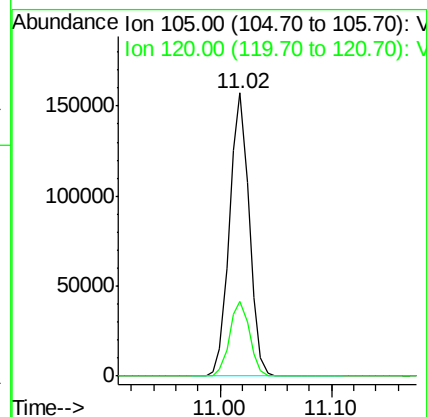
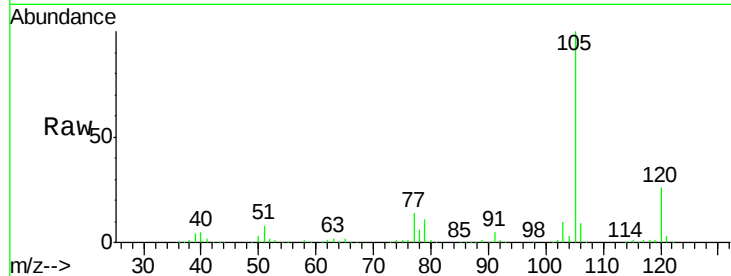
120 27.1 13.4 40.1

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#74

N-ethyl acetate

Concen: 16.485 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion: 43 Resp: 74291

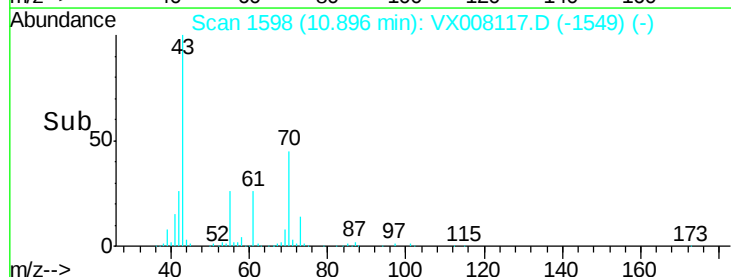
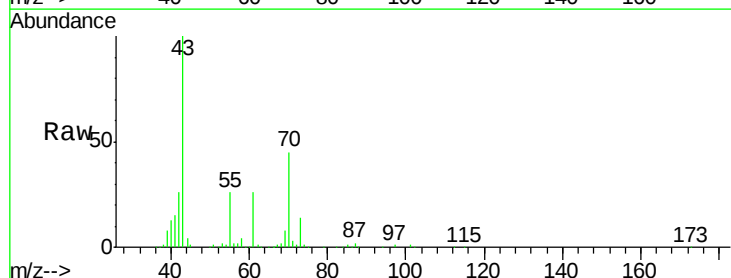
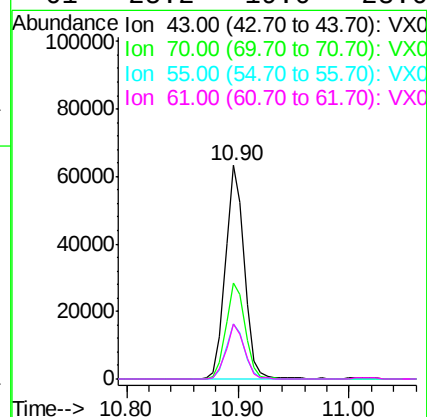
Ion Ratio Lower Upper

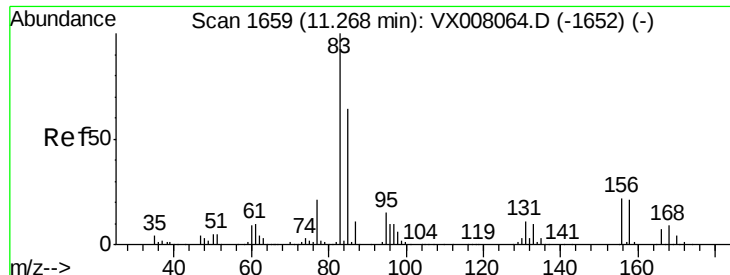
43 100

70 46.0 33.5 50.3

55 25.7 19.2 28.8

61 25.2 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.168 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 83 Resp: 63596

Ion Ratio Lower Upper

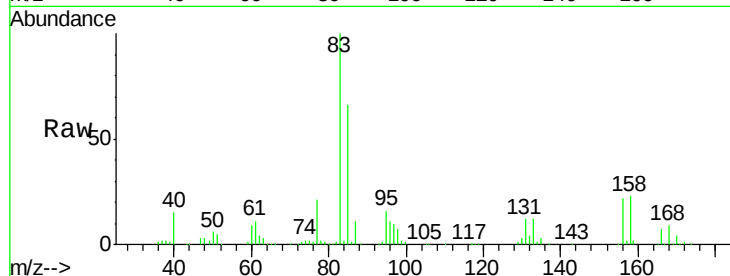
83 100

131 11.7 5.4 16.2

85 65.2 32.3 96.8

Manual Integrations
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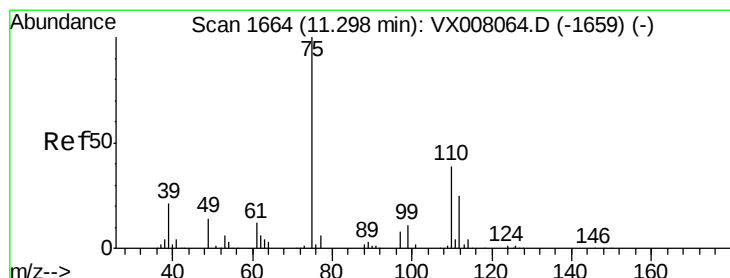
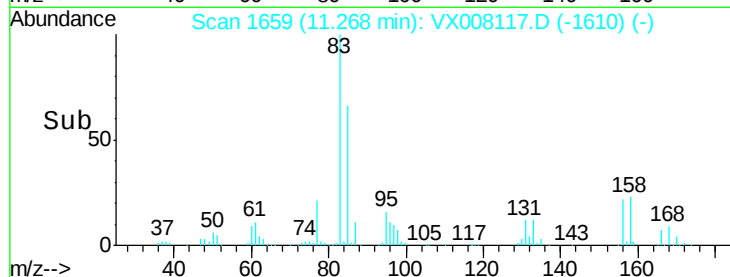
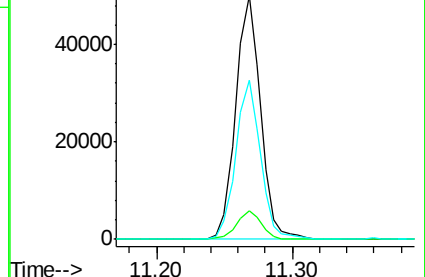
MMDadoda
3/16/2019 10:33:28 AM



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.148 ug/l m

RT: 11.29 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VX008117.D

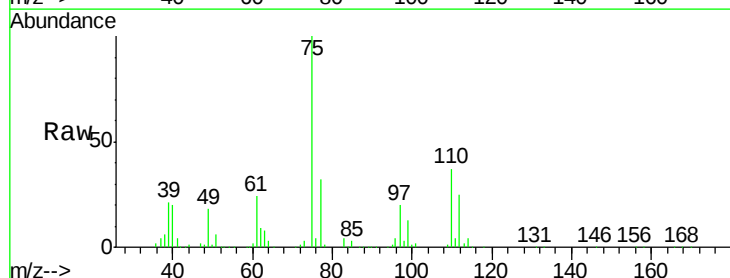
Acq: 15 Mar 2019 20:23

Tgt Ion: 75 Resp: 61261

Ion Ratio Lower Upper

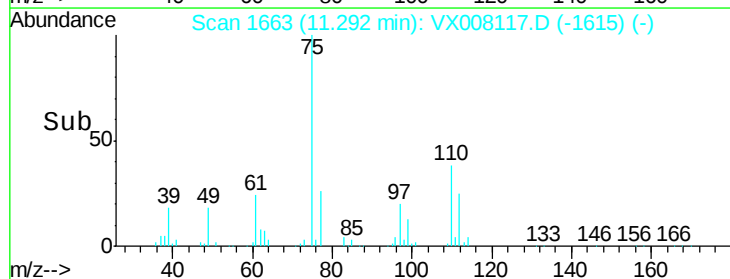
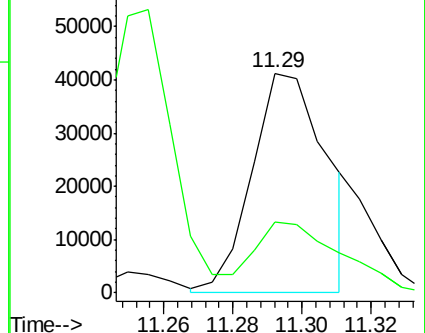
75 100

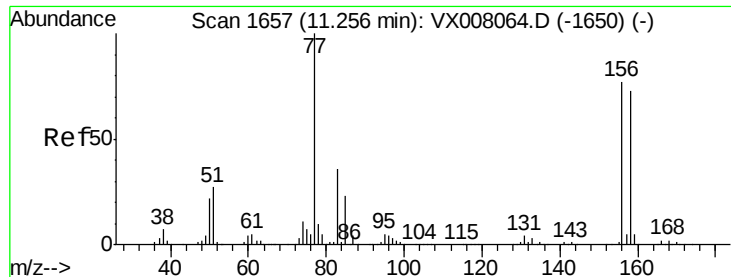
77 37.3 18.9 56.7



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 18.279 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion:156 Resp: 53299

Ion Ratio Lower Upper

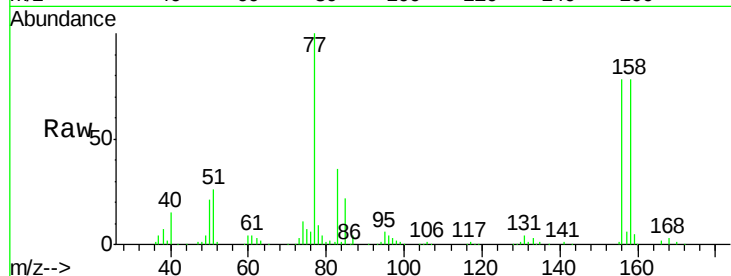
156 100

77 135.5 72.0 215.9

158 100.1 48.6 145.9

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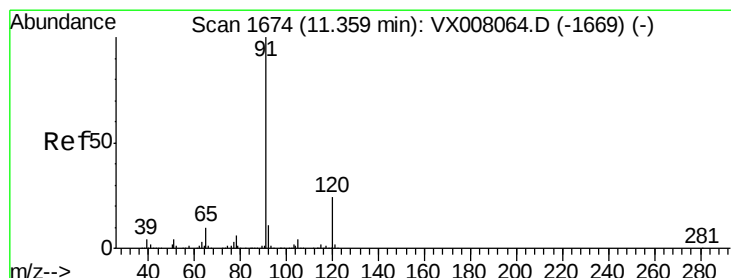
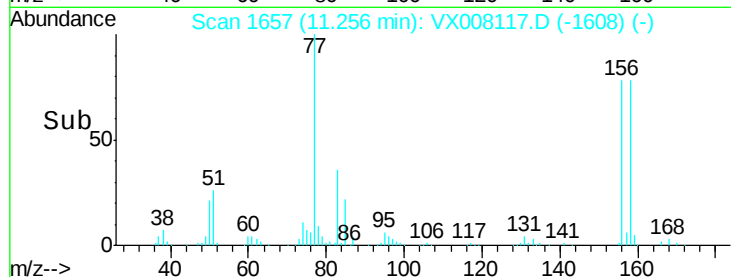
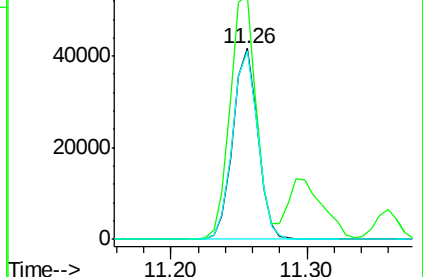
MMDadoda
3/16/2019 10:33:28 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 17.537 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008117.D

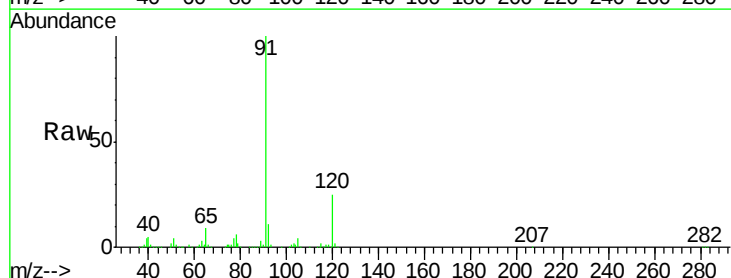
Acq: 15 Mar 2019 20:23

Tgt Ion: 91 Resp: 205541

Ion Ratio Lower Upper

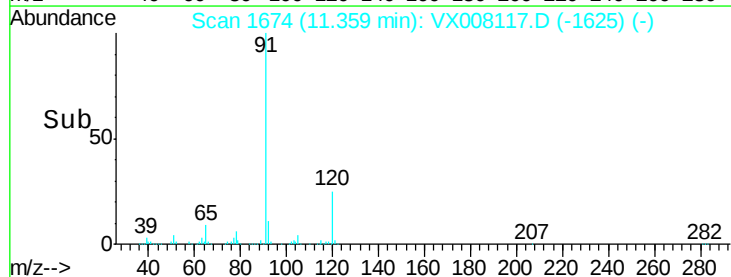
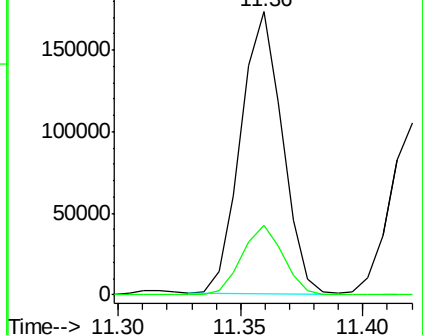
91 100

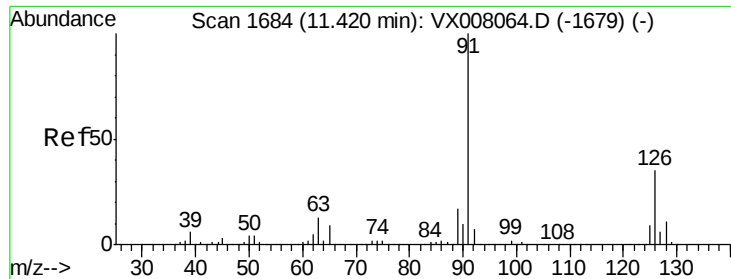
120 24.6 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.729 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBSD02

Tot Ion: 91 Resp: 126898

Ion Ratio Lower Upper

91 100

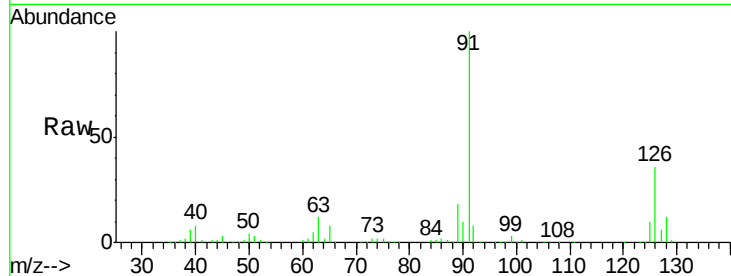
126 37.0 17.5 52.6

Manual Integrations

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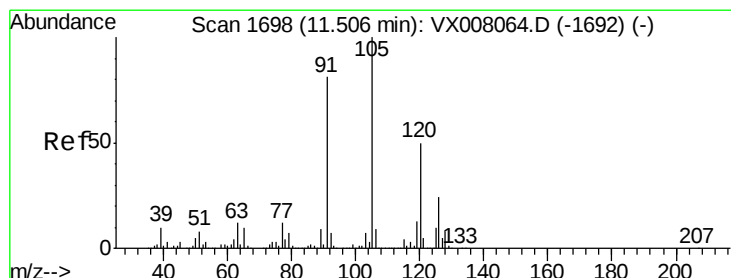
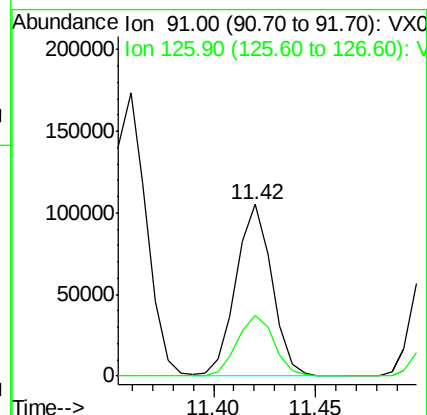
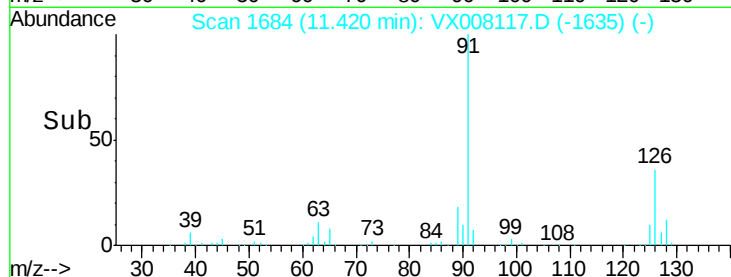
MMDadoda

3/16/2019 10:33:28 AM



Abundance Ion 91.00 (90.70 to 91.70): VX008117.D (-1635) (-)

Ion 125.90 (125.60 to 126.60): VX008117.D (-1635) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.309 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008117.D

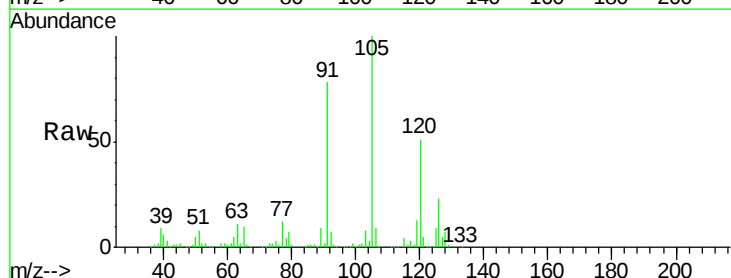
Acq: 15 Mar 2019 20:23

Tgt Ion: 105 Resp: 161171

Ion Ratio Lower Upper

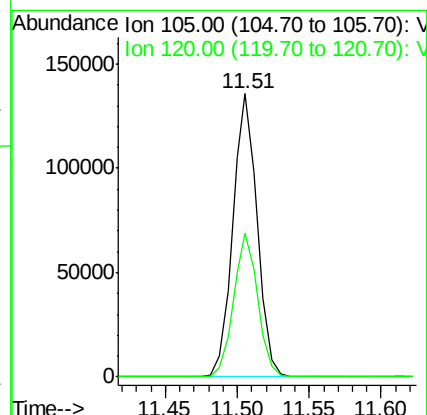
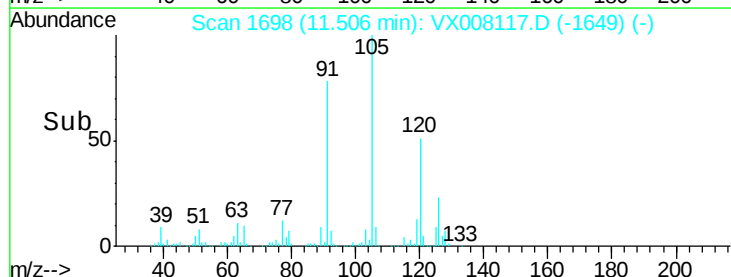
105 100

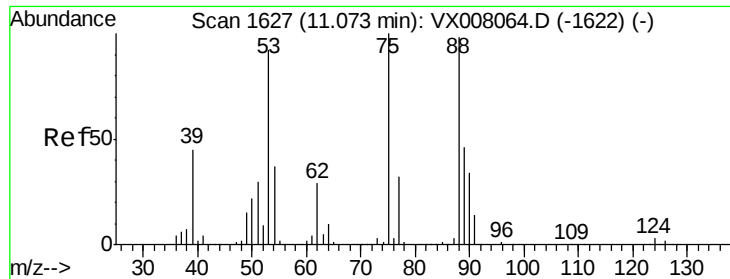
120 50.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VX008117.D (-1649) (-)

Ion 120.00 (119.70 to 120.70): VX008117.D (-1649) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 16.440 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

ClientSampled :

VX0315WBSD02

Tot Ion: 75 Resp: 16735

Ion Ratio Lower Upper

75 100

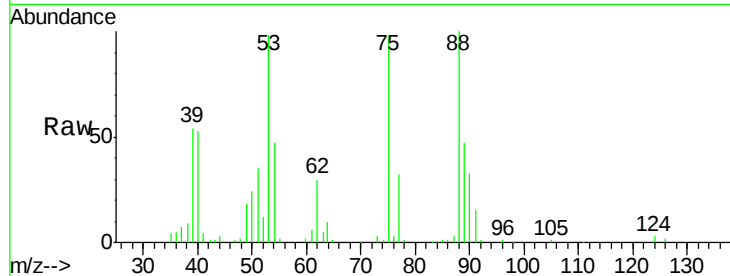
53 102.9 76.1 114.1

89 47.7 36.3 54.5

Manual Integrations
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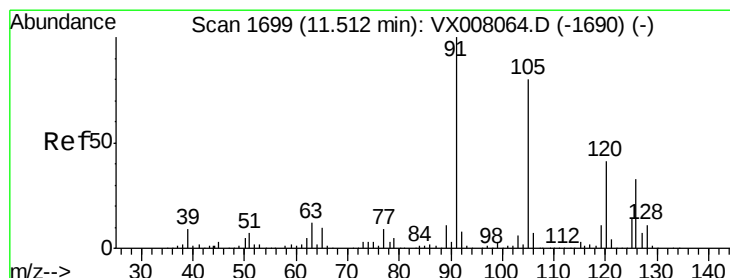
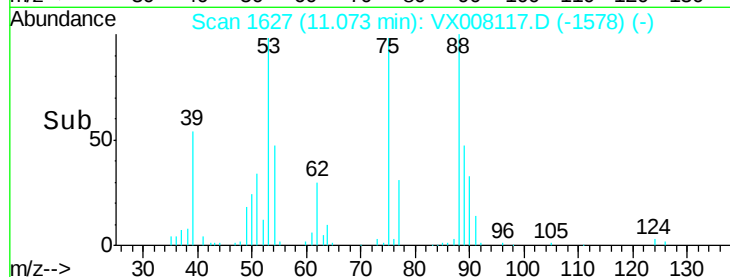
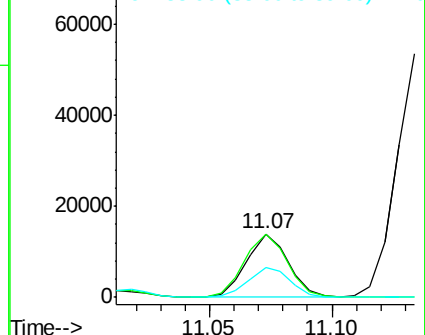
3/16/2019 10:33:28 AM



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 17.785 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX008117.D

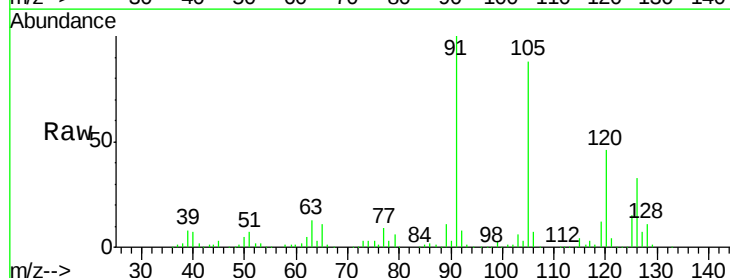
Acq: 15 Mar 2019 20:23

Tgt Ion: 91 Resp: 145798

Ion Ratio Lower Upper

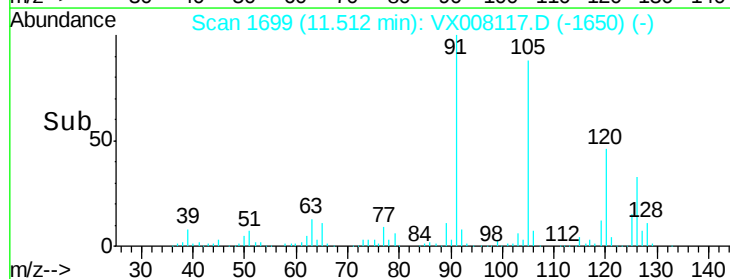
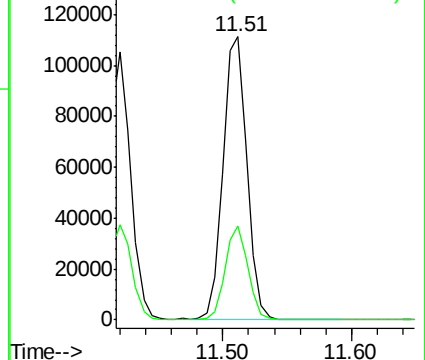
91 100

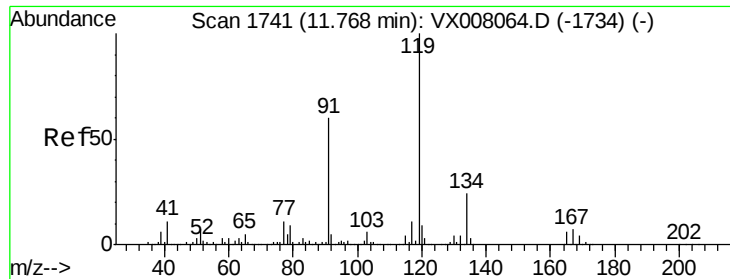
126 31.7 15.6 46.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





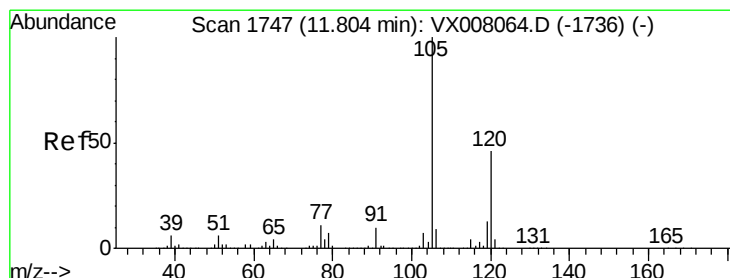
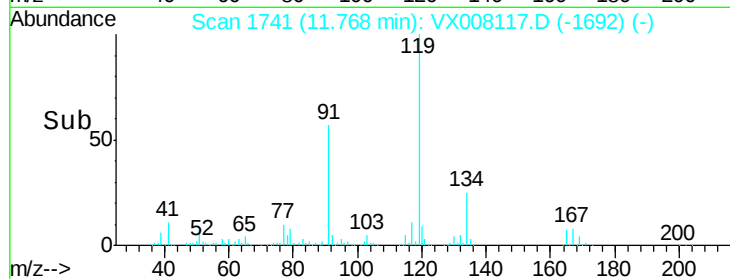
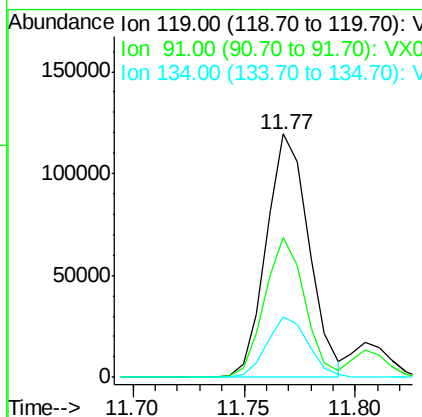
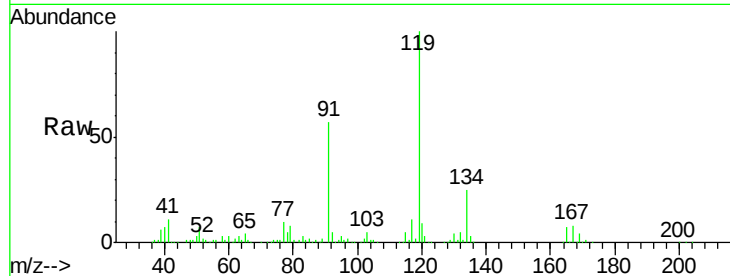
#83
tert-Butylbenzene
Concen: 17.949 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	158341		
91	54.3	27.1	81.3	
134	24.1	11.4	34.1	

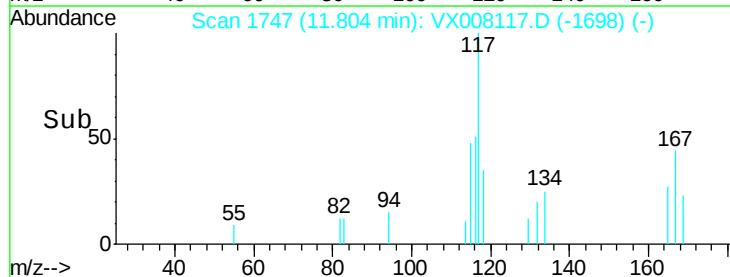
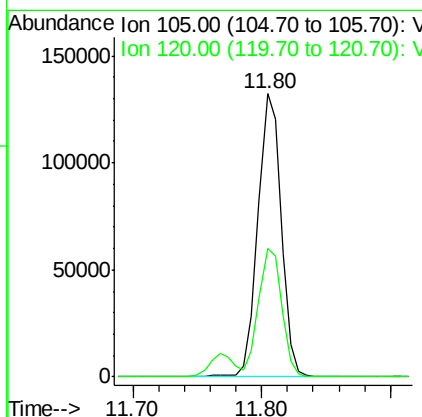
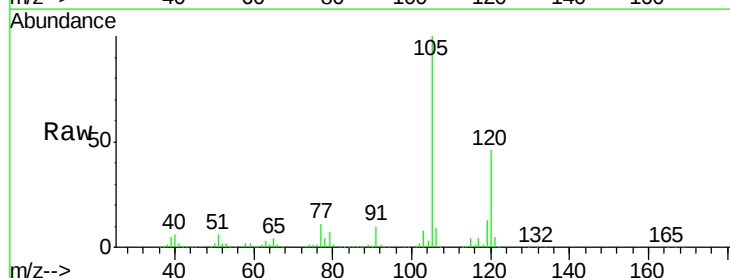
Manual Integrations
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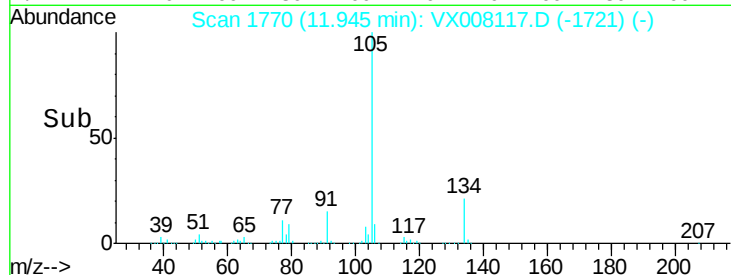
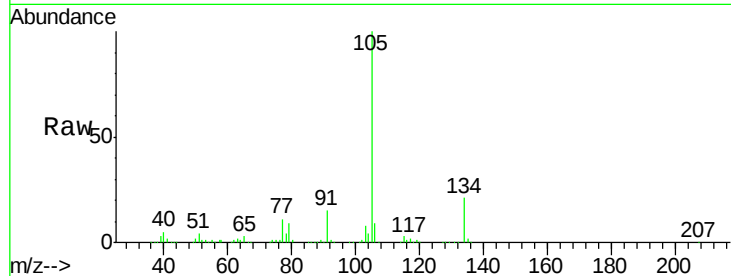
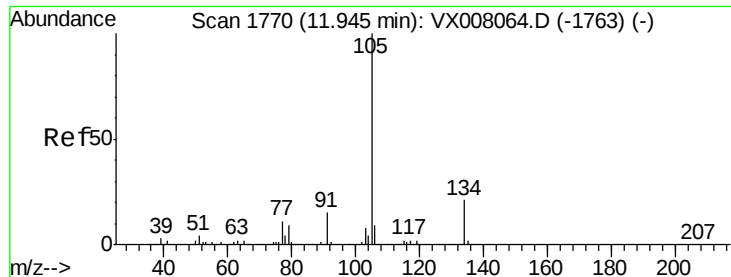
MMDadoda
3/16/2019 10:33:28 AM



#84
1,2,4-Trimethylbenzene
Concen: 18.068 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	164064		
120	45.3	22.6	67.7	





#85

sec-Butylbenzene

Concen: 17.867 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tot Ion:105 Resp: 187791

Ion Ratio Lower Upper

105 100

134 20.8 10.4 31.2

Instrument :

MSVOA_X

ClientSampled :

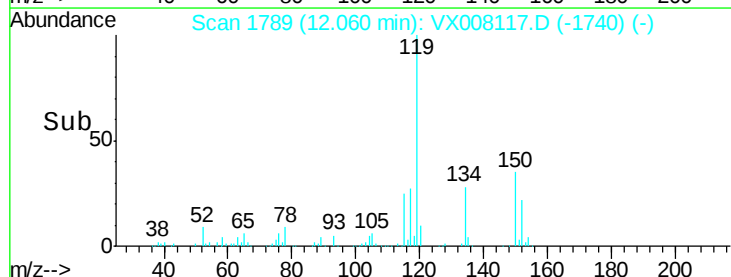
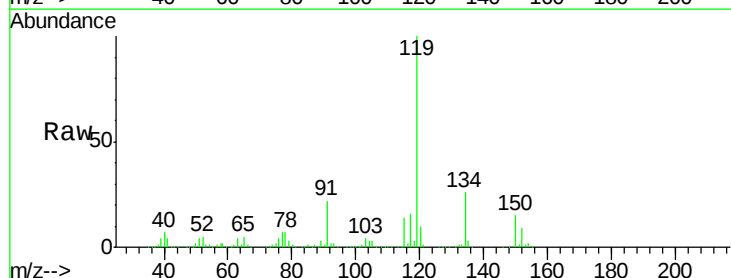
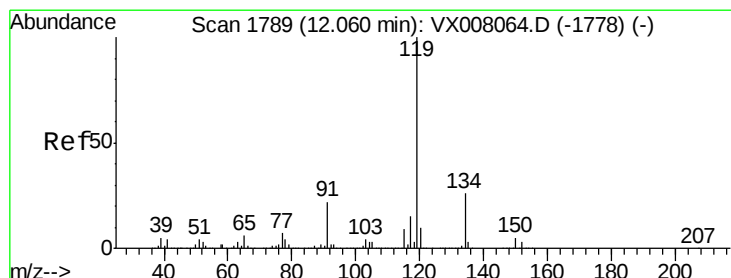
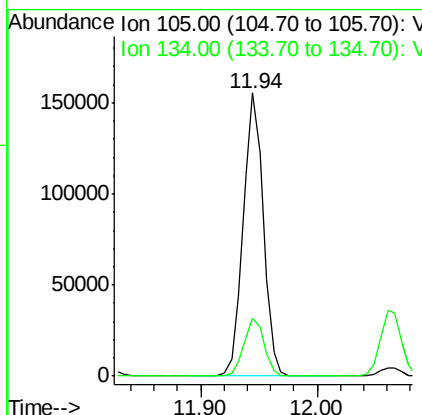
VX0315WBSD02

Manual Integrations

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3/16/2019 10:33:28 AM



#86

p-Isopropyltoluene

Concen: 18.141 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

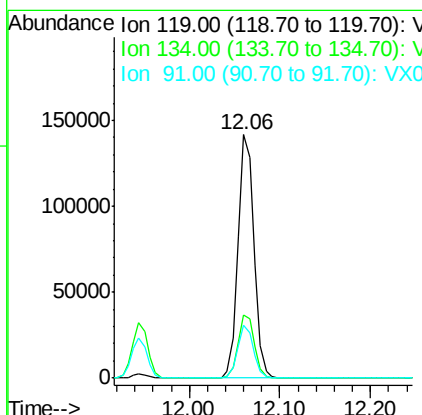
Tgt Ion:119 Resp: 172442

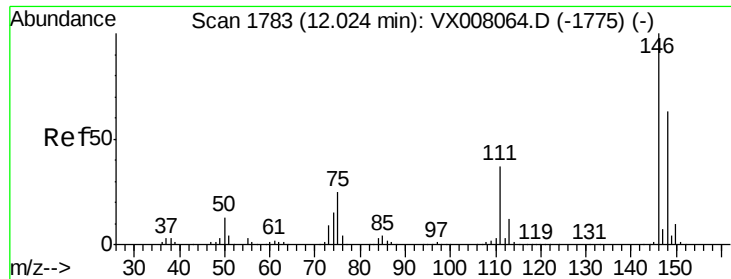
Ion Ratio Lower Upper

119 100

134 26.4 13.3 39.9

91 21.6 10.9 32.7





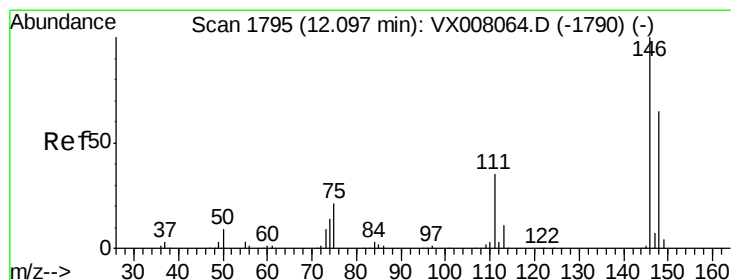
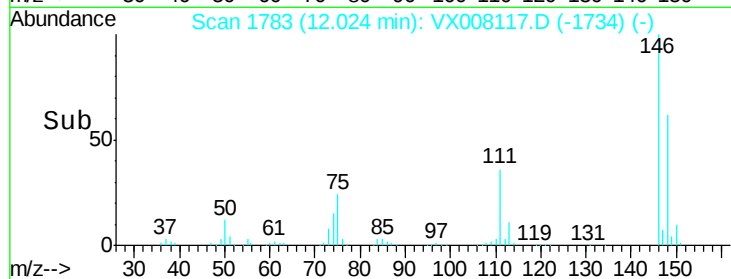
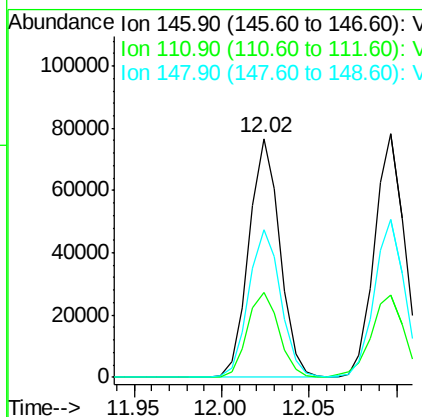
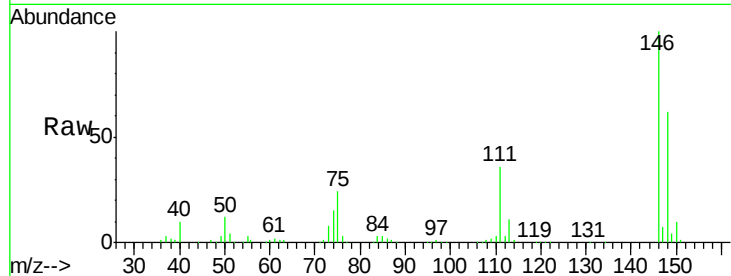
#87
 1,3-Dichlorobenzene
 Concen: 18.175 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.9	56.7
148	64.0	31.7	95.1

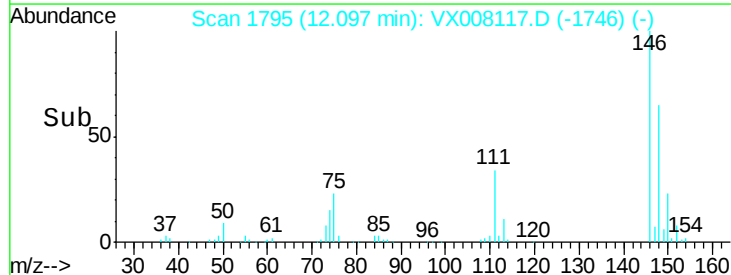
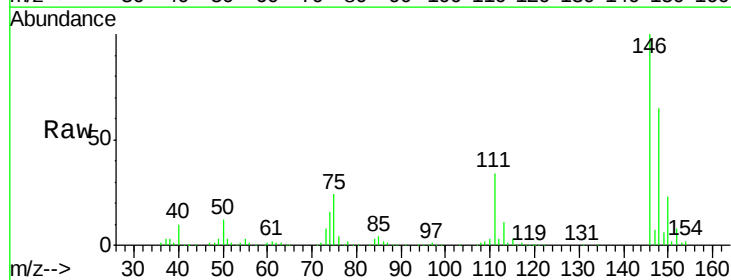
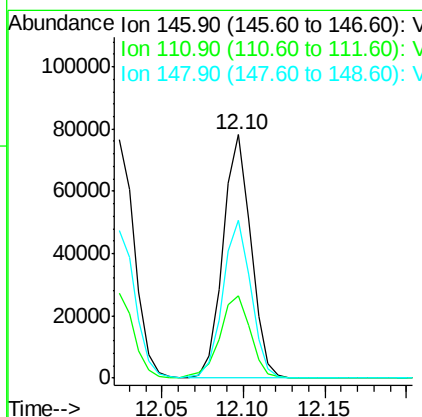
Manual Integrations
 APPROVED

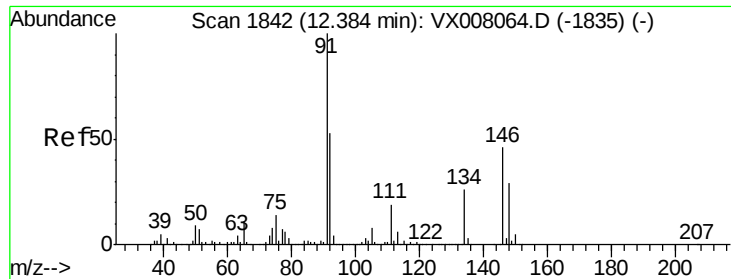
MMDadoda
 3/16/2019 10:33:28 AM



#88
 1,4-Dichlorobenzene
 Concen: 17.685 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.4	55.0
148	65.5	32.2	96.6





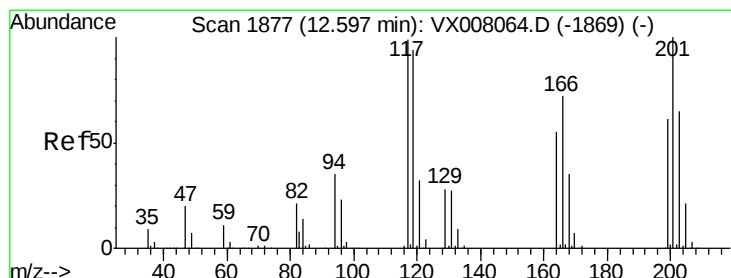
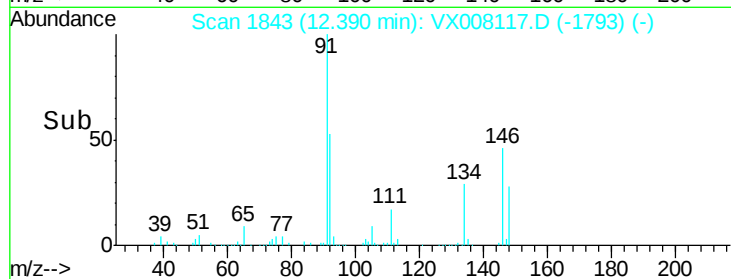
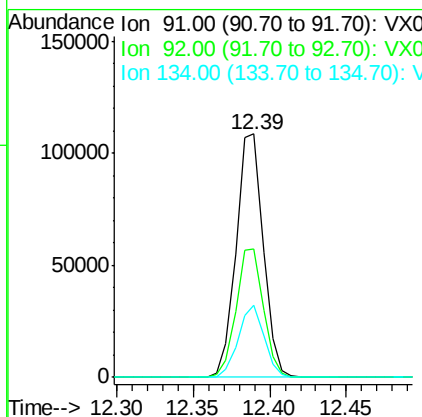
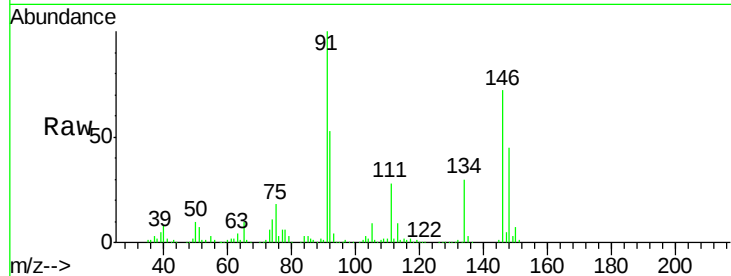
#89
n-Butylbenzene
Concen: 16.797 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.01 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
91	100	133605		
92	53.1	27.0	80.8	
134	28.2	13.7	41.0	

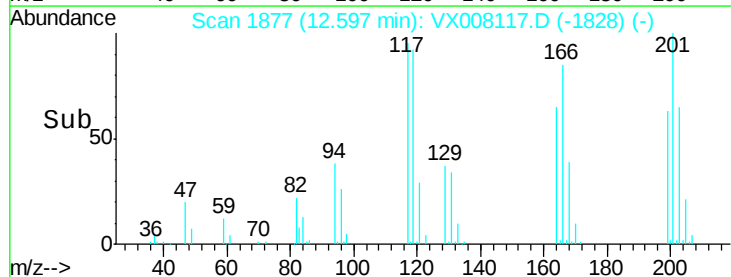
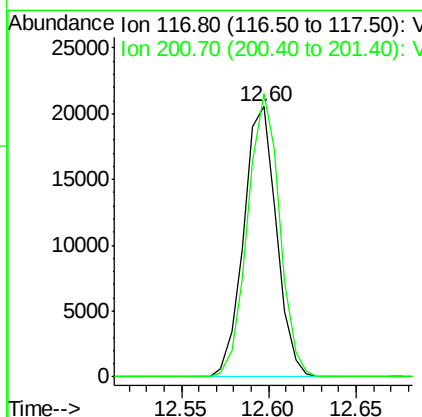
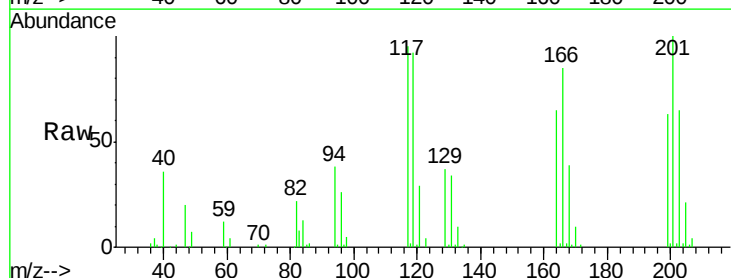
Manual Integrations
APPROVED

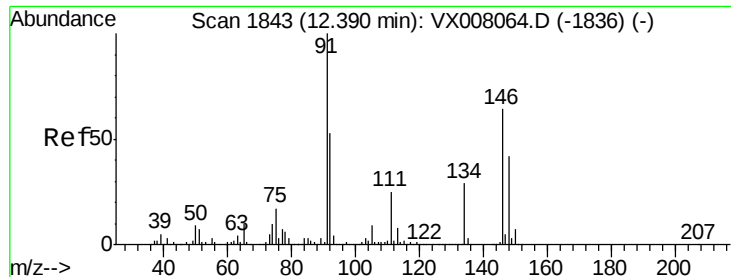
MMDadoda
3/16/2019 10:33:28 AM



#90
Hexachloroethane
Concen: 17.552 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX008117.D
Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	26702		
201	102.2	48.9	146.7	





#91

1,2-Dichlorobenzene

Concen: 18.530 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

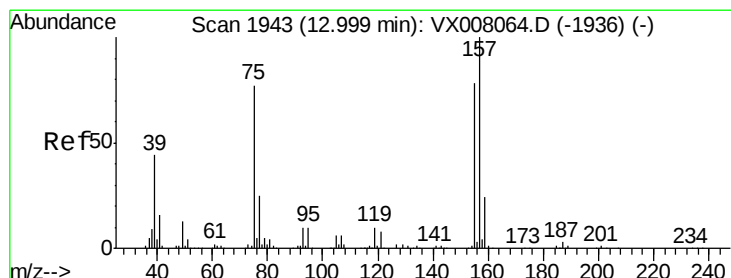
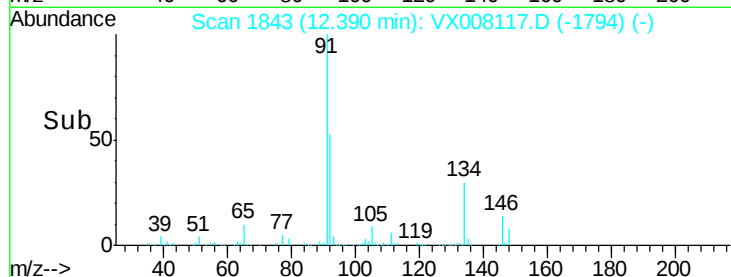
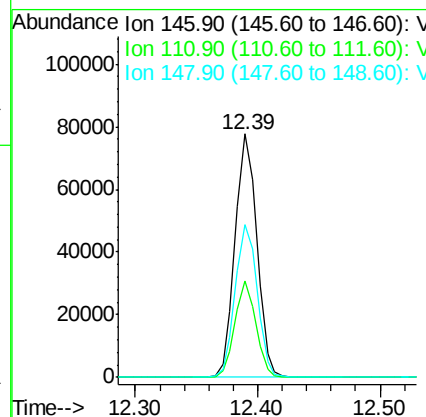
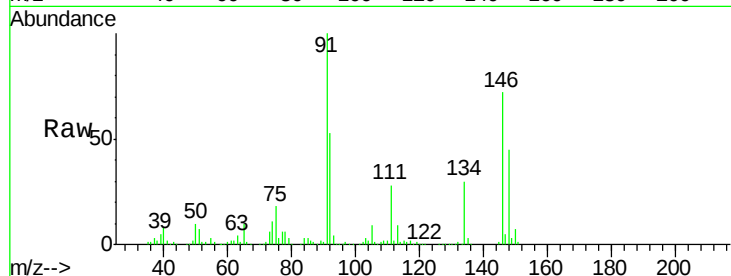
ClientSampleId :

VX0315WBSD02

Tot Ion:	146	Resp:	95406
Ion Ratio	Lower	Upper	
146	100		
111	37.9	19.6	58.8
148	63.8	31.9	95.5

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 18.661 ug/l

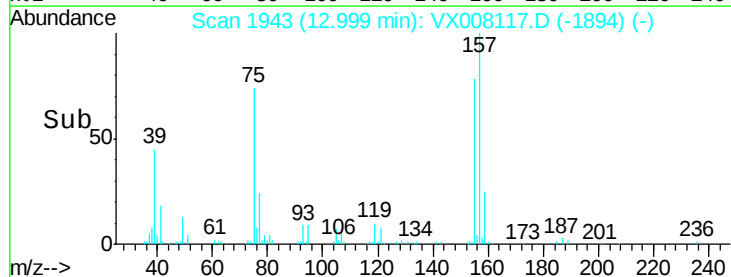
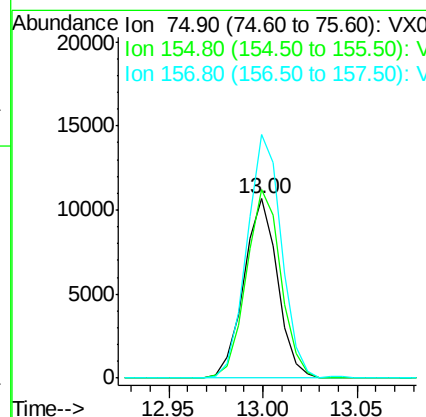
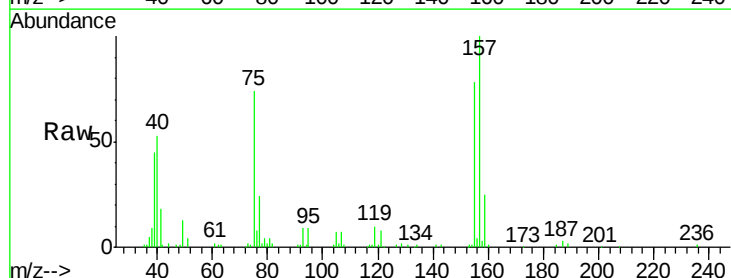
RT: 13.00 min Scan# 1943

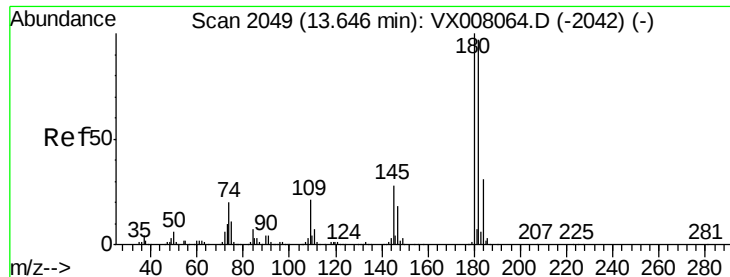
Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion:	75	Resp:	13206
Ion Ratio	Lower	Upper	
75	100		
155	107.5	49.7	149.1
157	139.9	63.8	191.4





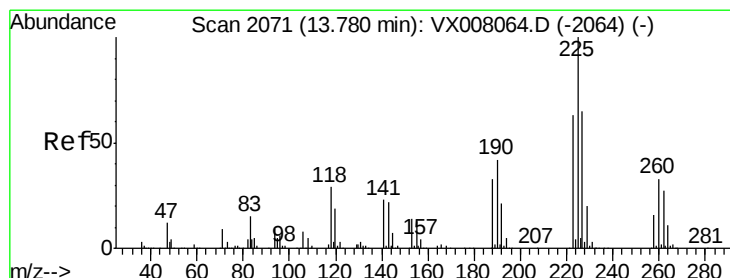
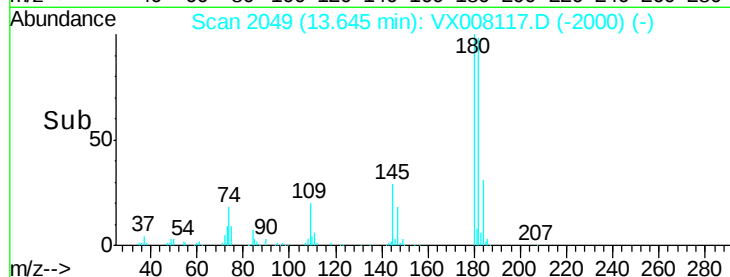
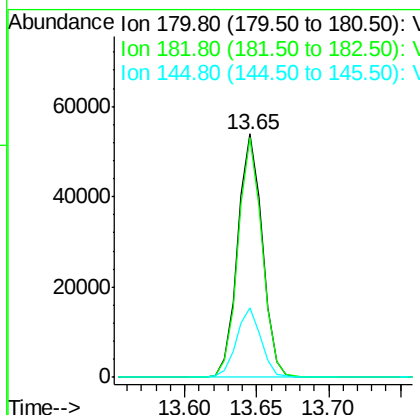
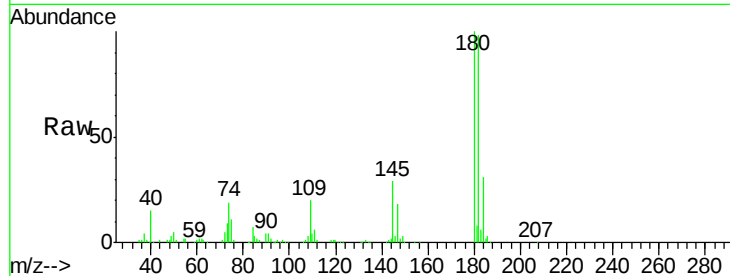
#93
 1,2,4-Trichlorobenzene
 Concen: 17.604 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	64206		
182	96.3		47.9	143.7
145	28.1		14.1	42.4

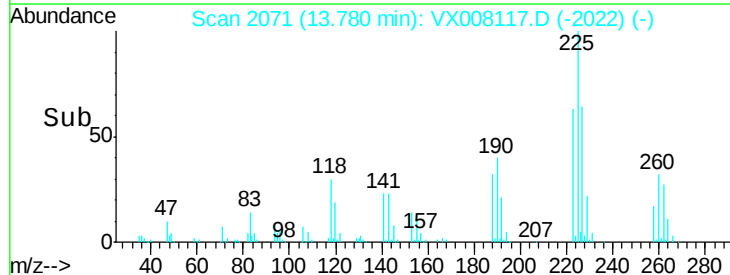
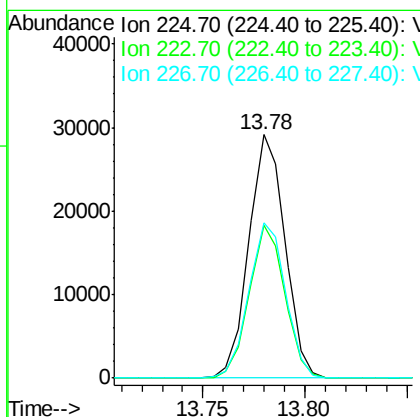
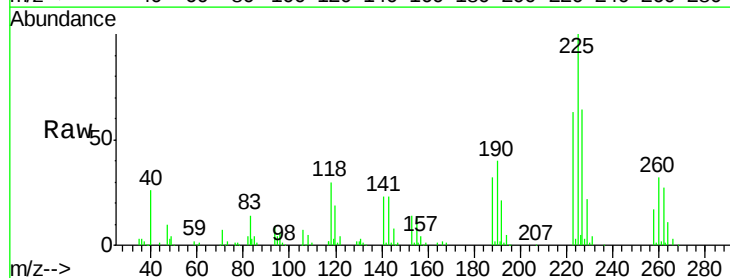
Manual Integrations
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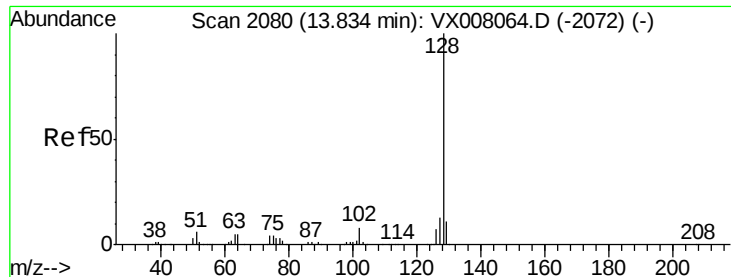
MMDadoda
 3/16/2019 10:33:28 AM



#94
 Hexachlorobutadiene
 Concen: 18.118 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VX008117.D
 Acq: 15 Mar 2019 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	35901		
223	61.9		31.1	93.2
227	64.7		32.0	96.0





#95

Naphthalene

Concen: 18.498 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Instrument :

MSVOA_X

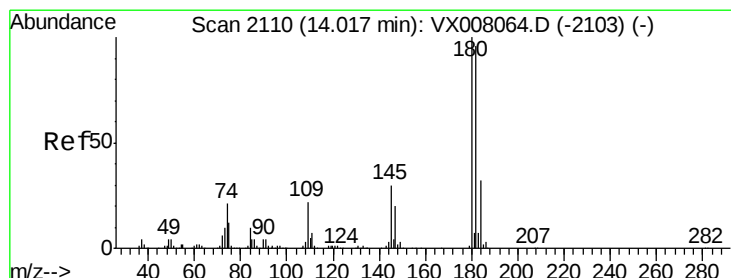
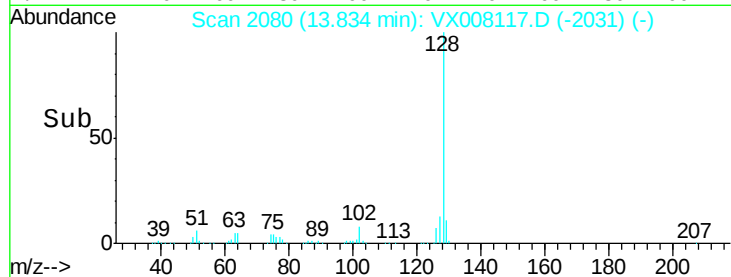
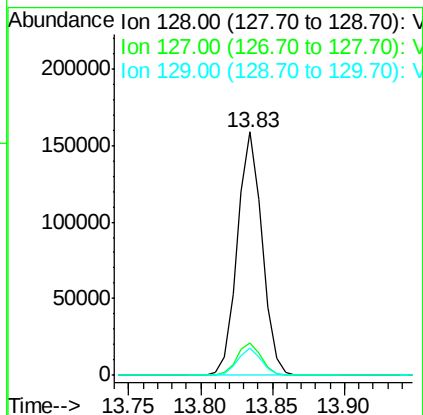
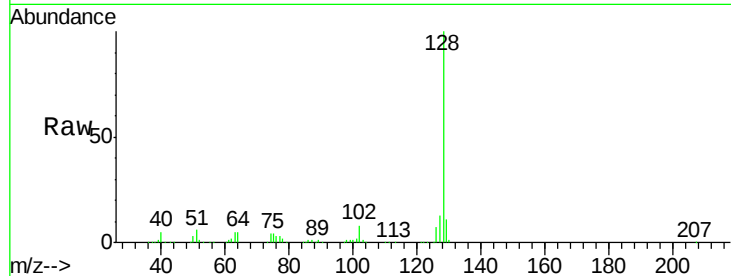
ClientSampleId :

VX0315WBSD02

Tot Ion:	128	Resp:	189698
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.3	15.5
129	10.8	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 18.338 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX008117.D

Acq: 15 Mar 2019 20:23

Tgt Ion:	180	Resp:	65841
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.5	142.5
145	30.0	14.8	44.3

