

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030119\
 Data File : VD060911.D
 Acq On : 1 Mar 2019 16:08
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 5:33:05 AM

Quant Time: Mar 02 01:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 01 16:47:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	674091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1159647	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	971963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	448126	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	115700	23.09	ug/l	0.00
Spiked Amount			Recovery	=	46.18%	
35) Dibromofluoromethane	6.92	113	191439	22.08	ug/l	0.00
Spiked Amount			Recovery	=	44.16%	
50) Toluene-d8	10.40	98	497889	21.22	ug/l	0.00
Spiked Amount			Recovery	=	42.44%	
62) 4-Bromofluorobenzene	13.55	95	177471	19.46	ug/l	0.00
Spiked Amount			Recovery	=	38.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	165849	22.562	ug/l	99
3) Chloromethane	1.75	50	142929	31.628	ug/l	96
4) Vinyl Chloride	1.85	62	129757	30.895	ug/l	96
5) Bromomethane	2.14	94	17712	22.540	ug/l #	85
6) Chloroethane	2.25	64	23561	20.675	ug/l	98
7) Trichlorofluoromethane	2.52	101	139957	20.558	ug/l	95
8) Diethyl Ether	2.87	74	67890	57.990	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.15	101	191903	45.839	ug/l	91
10) Methyl Iodide	3.30	142	214677	17.960	ug/l	96
11) Tert butyl alcohol	4.06	59	41961	110.293	ug/l	100
12) 1,1-Dichloroethene	3.12	96	163277	52.206	ug/l	90
13) Acrolein	3.03	56	66656	316.005	ug/l	93
14) Allyl chloride	3.61	41	262708	25.729	ug/l	89
15) Acrylonitrile	4.19	53	165498	139.311	ug/l	96
16) Acetone	3.21	43	199065	130.957	ug/l #	90
17) Carbon Disulfide	3.37	76	585983	25.358	ug/l	100
18) Methyl Acetate	3.64	43	73946	23.446	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	280452	21.391	ug/l	92
20) Methylene Chloride	3.81	84	210135	24.607	ug/l #	87
21) trans-1,2-Dichloroethene	4.21	96	175709	25.352	ug/l	97
22) Diisopropyl ether	5.10	45	555171	27.718	ug/l #	94
23) Vinyl Acetate	5.05	43	1519896	134.097	ug/l	99
24) 1,1-Dichloroethane	4.97	63	305392	27.911	ug/l	99
25) 2-Butanone	6.06	43	248957	124.091	ug/l	96
26) 2,2-Dichloropropane	6.01	77	231180	22.257	ug/l	93
27) cis-1,2-Dichloroethene	6.02	96	207476	27.260	ug/l	96
28) Bromochloromethane	6.42	49	120702	28.042	ug/l	99
29) Tetrahydrofuran	6.44	42	123584	123.617	ug/l	95
30) Chloroform	6.65	83	295344	22.817	ug/l	100
31) Cyclohexane	6.94	56	264954	29.195	ug/l	84
32) 1,1,1-Trichloroethane	6.86	97	246991	24.511	ug/l	98
36) 1,1-Dichloropropene	7.13	75	227496	18.751	ug/l	92
37) Ethyl Acetate	6.17	43	122584	21.491	ug/l	98
38) Carbon Tetrachloride	7.10	117	233287	20.722	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	246946	19.147	ug/l #	82
40) Benzene	7.44	78	600761	19.924	ug/l	98
41) Methacrylonitrile	6.43	41	72383m	23.490	ug/l	
42) 1,2-Dichloroethane	7.57	62	163871	19.983	ug/l	100
43) Isopropyl Acetate	9.23	43	161763	20.021	ug/l #	94
44) Trichloroethene	8.53	130	196336	19.968	ug/l	99
45) 1,2-Dichloropropane	8.92	63	159466	22.641	ug/l	97
46) Dibromomethane	9.05	93	99728	19.706	ug/l	92
47) Bromodichloromethane	9.37	83	212315	17.690	ug/l	96
48) Methyl methacrylate	9.11	41	94565	20.329	ug/l	92
49) 1,4-Dioxane	9.07	88	19178	393.562	ug/l #	88
51) 4-Methyl-2-Pentanone	10.29	43	497541	99.827	ug/l	91
52) Toluene	10.50	92	388567	22.250	ug/l	100
53) t-1,3-Dichloropropene	10.90	75	205045	18.507	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	249295	19.530	ug/l	99
55) 1,1,2-Trichloroethane	11.18	97	127207	21.235	ug/l	93
56) Ethyl methacrylate	11.03	69	132406	19.423	ug/l	96
57) 1,3-Dichloropropane	11.40	76	171466	17.380	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	328746	100.654	ug/l	99
59) 2-Hexanone	11.52	43	354125	92.546	ug/l	96
60) Dibromochloromethane	11.67	129	182917	21.250	ug/l	99
61) 1,2-Dibromoethane	11.80	107	147975	21.821	ug/l	100
64) Tetrachloroethene	11.25	164	158674	18.271	ug/l	92
65) Chlorobenzene	12.39	112	476711	24.199	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	174015	22.198	ug/l	97
67) Ethyl Benzene	12.52	91	718978	21.443	ug/l	91
68) m/p-Xylenes	12.67	106	544823	45.972	ug/l	83
69) o-Xylene	13.04	106	263643	23.098	ug/l	83
70) Styrene	13.07	104	438695	22.868	ug/l	94
71) Bromoform	13.23	173	97116	15.578	ug/l	98
73) Isopropylbenzene	13.39	105	743599	28.358	ug/l	99
74) N-amyl acetate	13.26	43	199338	21.996	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	145416	22.517	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	149130	22.365	ug/l	99
77) Bromobenzene	13.66	156	182342	21.607	ug/l	98
78) n-propylbenzene	13.77	91	786045	22.466	ug/l	96
79) 2-Chlorotoluene	13.84	91	467857	23.380	ug/l	94
80) 1,3,5-Trimethylbenzene	14.23	105	546270	25.349	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.46	75	44358	20.879	ug/l	95
82) 4-Chlorotoluene	13.93	91	509034	23.186	ug/l	94
83) tert-Butylbenzene	14.18	119	611915	24.589	ug/l	98
84) 1,2,4-Trimethylbenzene	14.23	105	546270	25.349	ug/l	99
85) sec-Butylbenzene	14.36	105	744140	26.784	ug/l	91
86) p-Isopropyltoluene	14.49	119	575385	24.662	ug/l	95
87) 1,3-Dichlorobenzene	14.45	146	307727	19.937	ug/l	94
88) 1,4-Dichlorobenzene	14.54	146	327674	21.982	ug/l	98
89) n-Butylbenzene	14.79	91	562121	23.256	ug/l	96
90) Hexachloroethane	15.00	117	163275	24.663	ug/l	64
91) 1,2-Dichlorobenzene	14.80	146	288264	22.431	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	15.37	75	17371	19.207	ug/l	70

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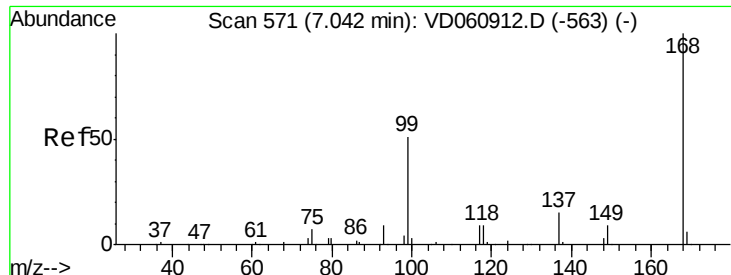
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APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	159650	17.554	ug/l	98
94) Hexachlorobutadiene	16.03	225	96146	17.620	ug/l	97
95) Naphthalene	16.12	128	253065	18.456	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	97918	14.000	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 674091

Ion Ratio Lower Upper

168 100

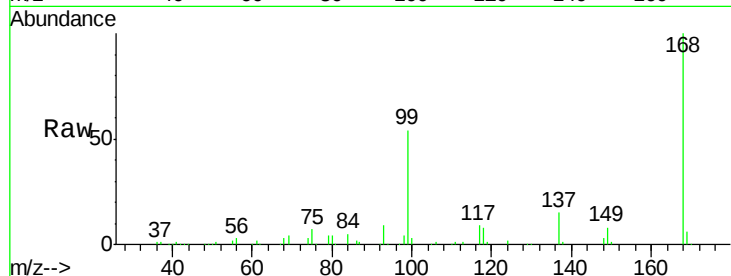
99 53.8 38.2 57.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

250000

200000

150000

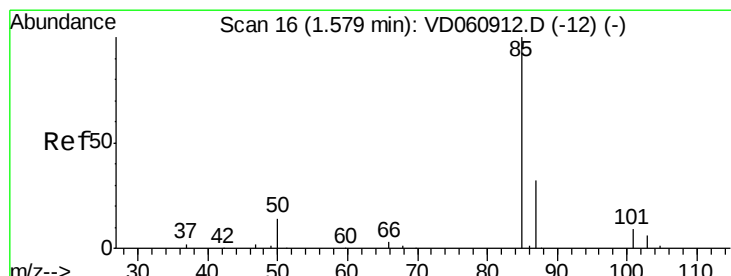
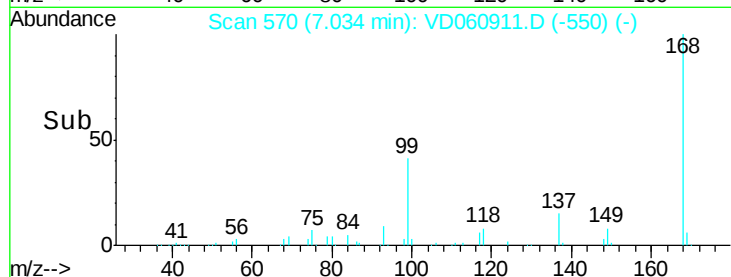
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 22.562 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.00 min

Lab File: VD060911.D

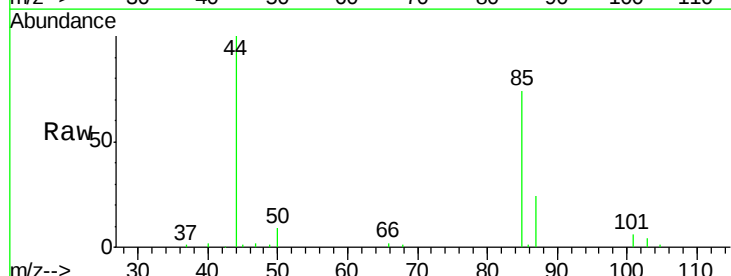
Acq: 1 Mar 2019 16:08

Tgt Ion: 85 Resp: 165849

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.2



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

60000

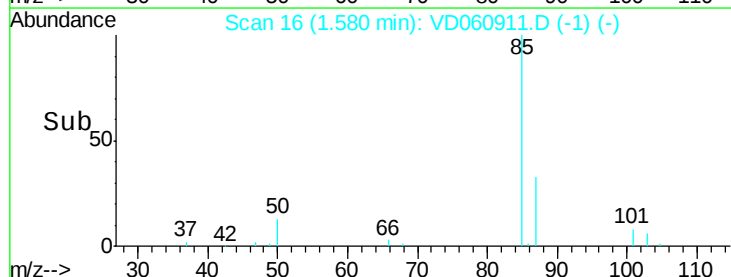
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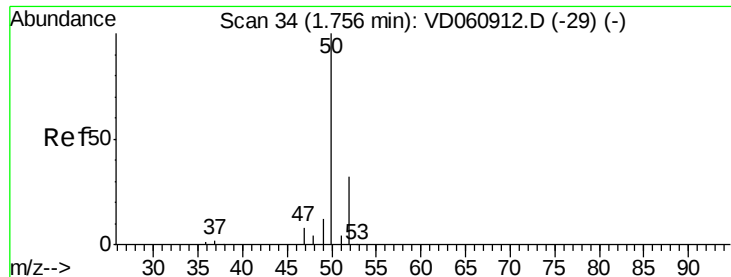
20000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 31.628 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 142929

Ion Ratio Lower Upper

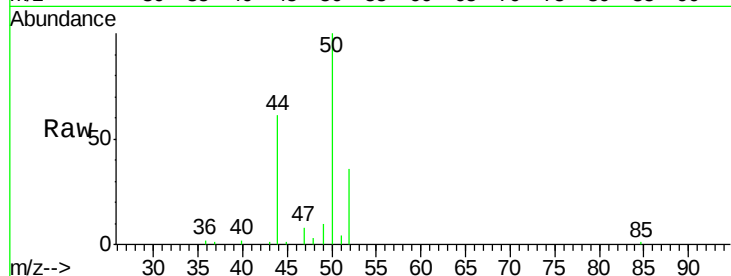
50 100

52 35.6 26.8 40.2

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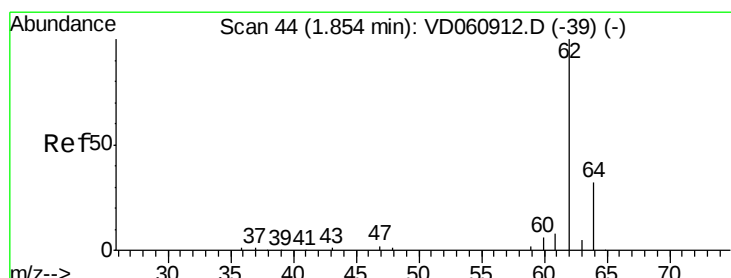
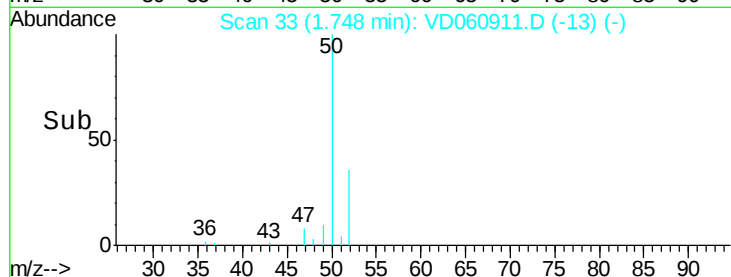
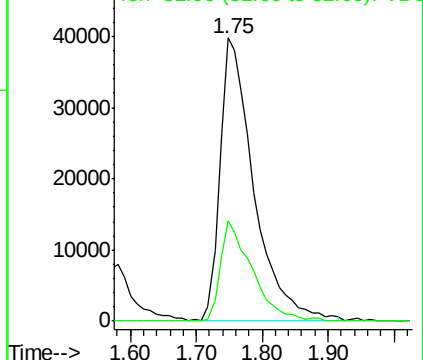
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 30.895 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD060911.D

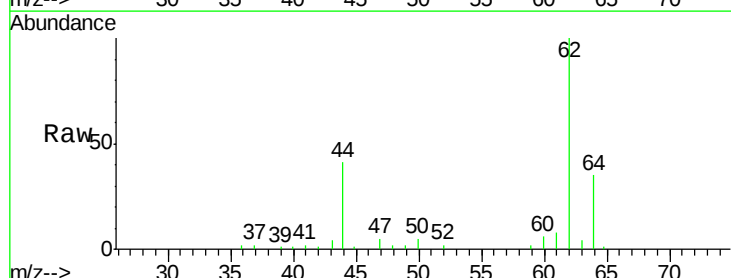
Acq: 1 Mar 2019 16:08

Tgt Ion: 62 Resp: 129757

Ion Ratio Lower Upper

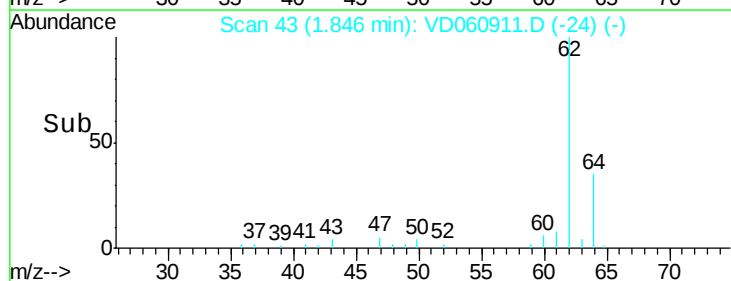
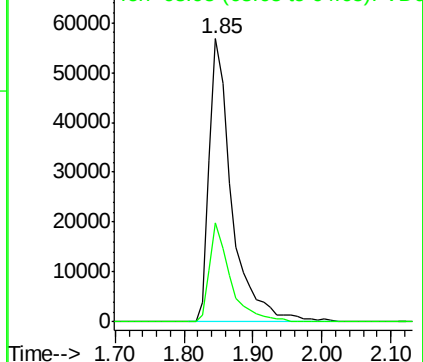
62 100

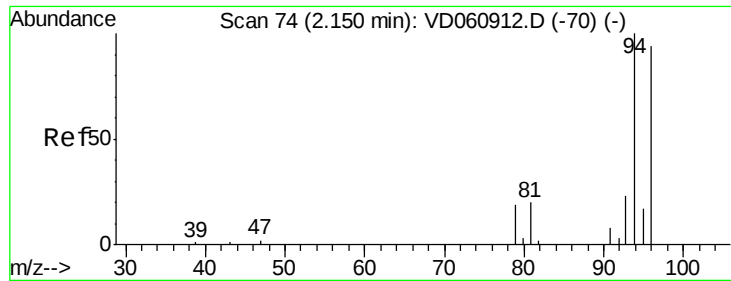
64 35.0 26.3 39.5



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 22.540 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

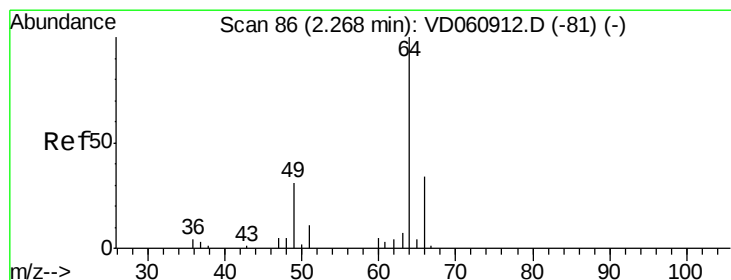
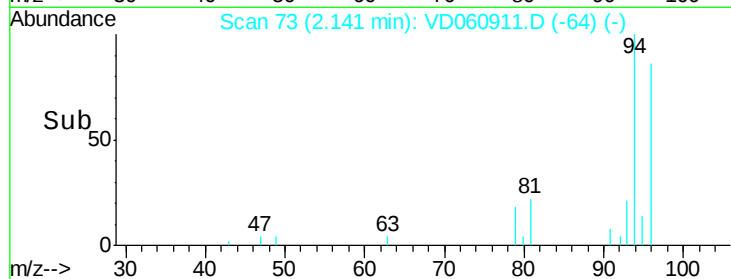
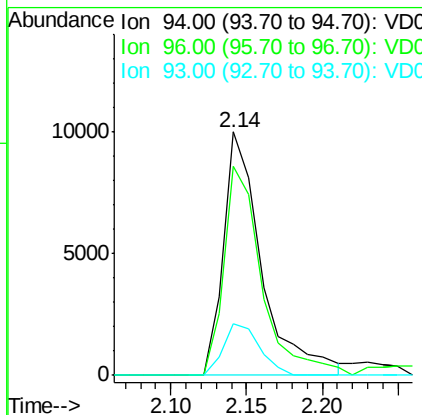
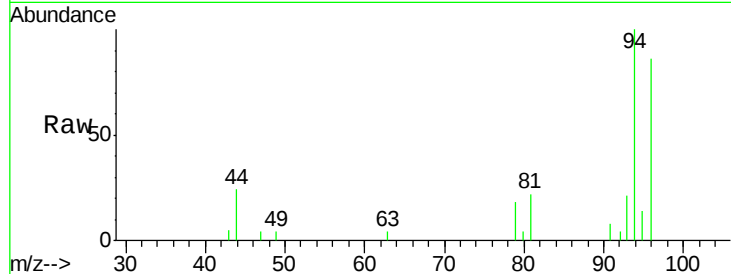
ClientSampleId :

VSTDIC020

Tot Ion:	94	Resp:	17712
Ion	Ratio	Lower	Upper
94	100		
96	85.9	81.0	121.4
93	21.3	0.0	0.0#

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#6

Chloroethane

Concen: 20.675 ug/l

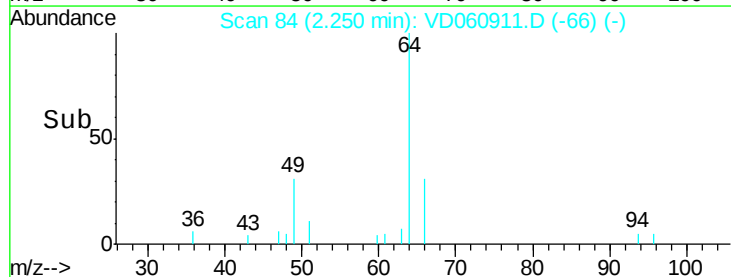
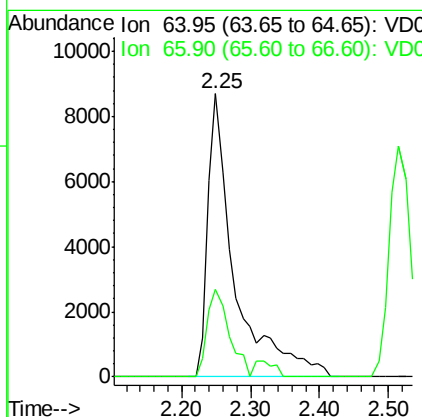
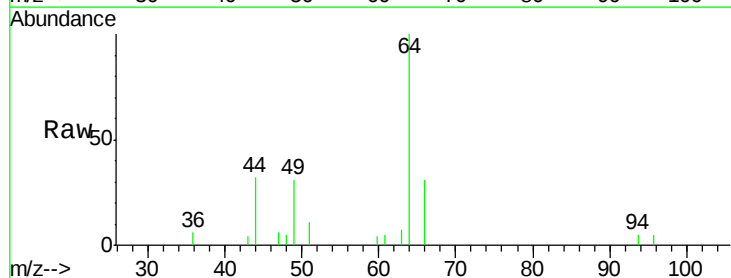
RT: 2.25 min Scan# 84

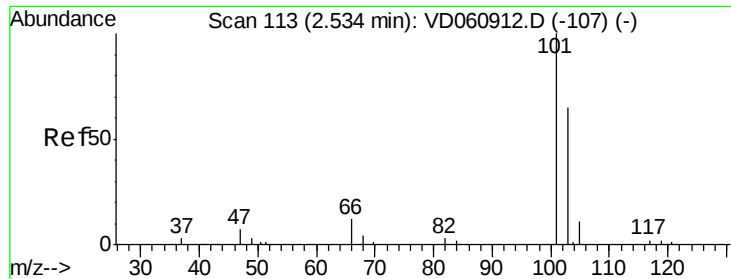
Delta R.T. -0.02 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	64	Resp:	23561
Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.8	38.6





#7

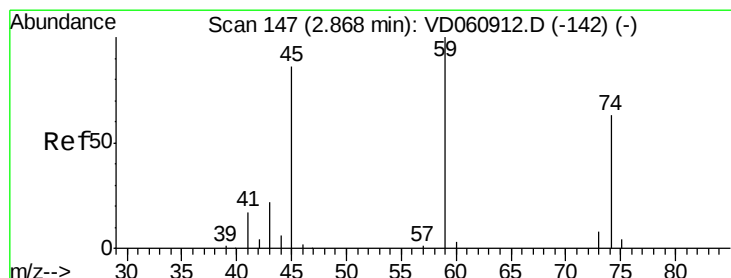
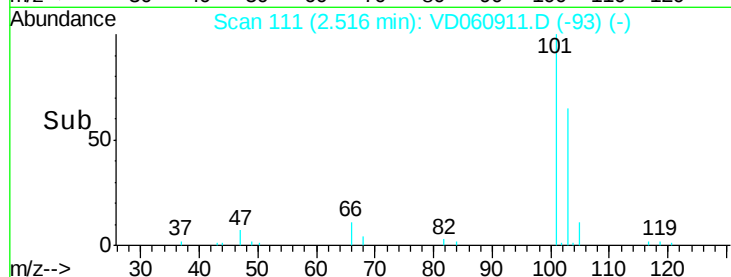
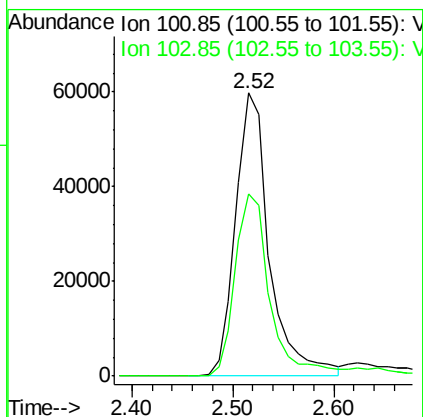
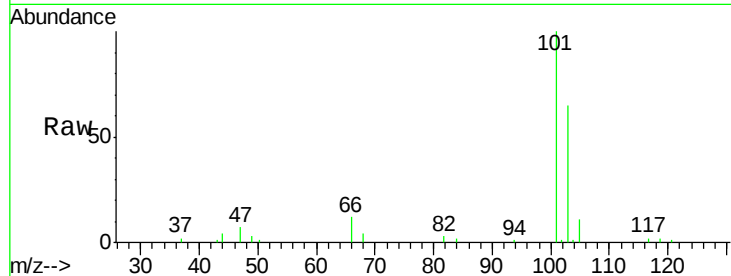
Trichlorofluoromethane
 Concen: 20.558 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.02 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	48.6	72.8

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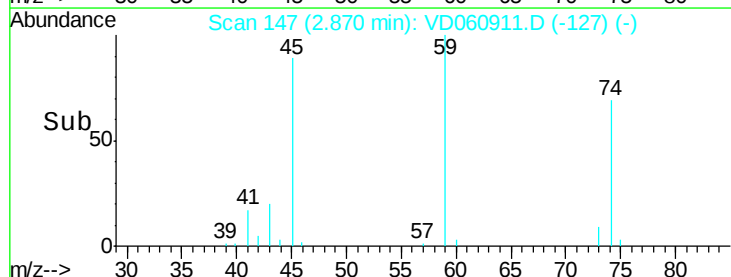
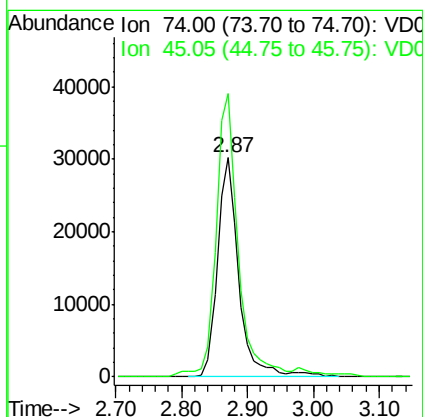
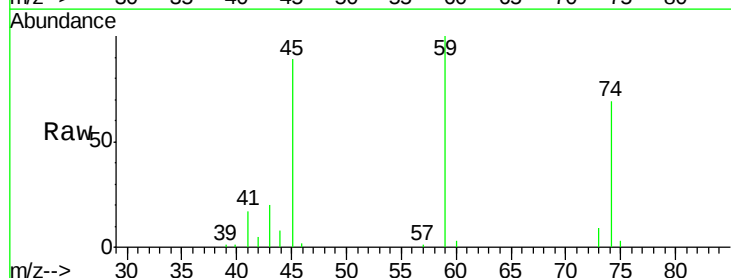
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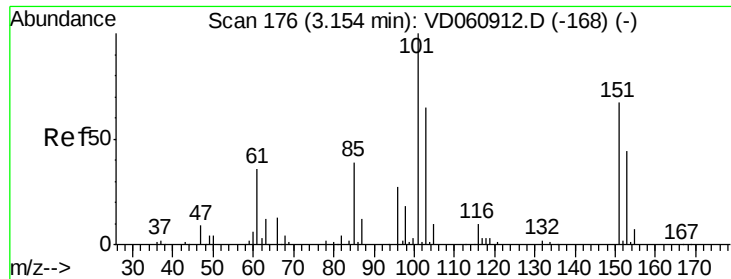


#8

Diethyl Ether
 Concen: 57.990 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	129.4	64.8	194.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.839 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

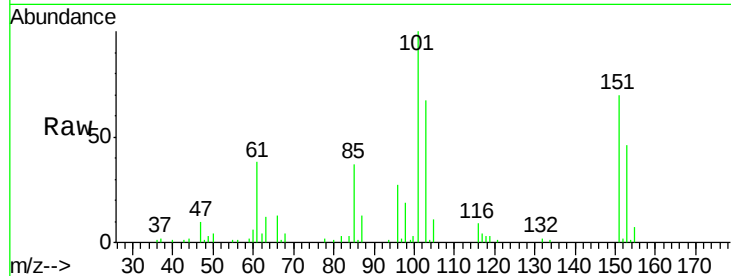
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VSTDIC020

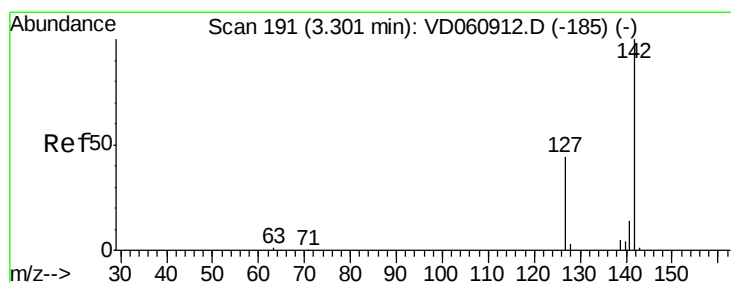
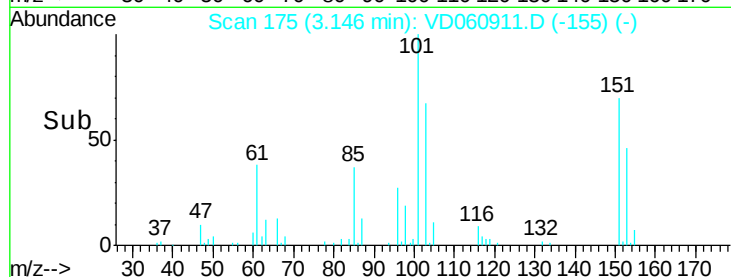
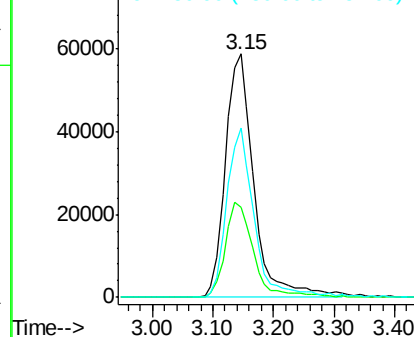
Tot Ion:	101	Resp:	191903
Ion Ratio	Lower	Upper	
101	100		
85	36.7	34.7	52.1
151	69.6	61.2	91.8

Manual Integrations
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3/6/2019 5:33:05 AM



Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.960 ug/l

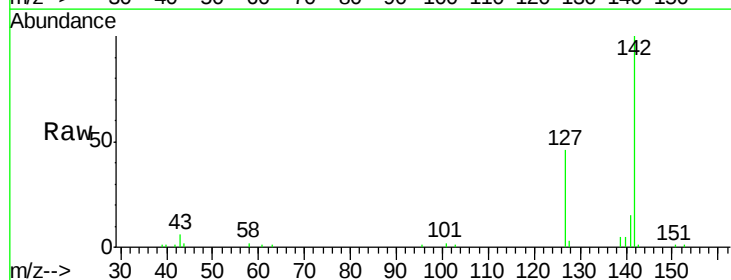
RT: 3.30 min Scan# 191

Delta R.T. -0.01 min

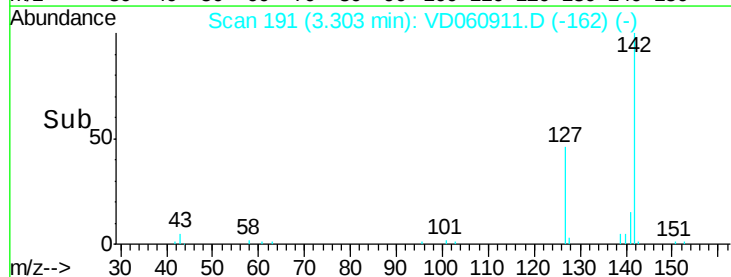
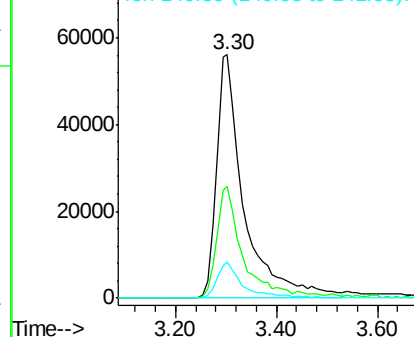
Lab File: VD060911.D

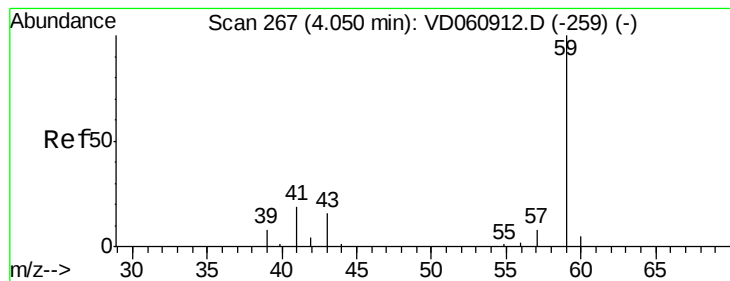
Acq: 1 Mar 2019 16:08

Tgt Ion:	142	Resp:	214677
Ion Ratio	Lower	Upper	
142	100		
127	46.1	34.2	51.4
141	14.7	11.4	17.2



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

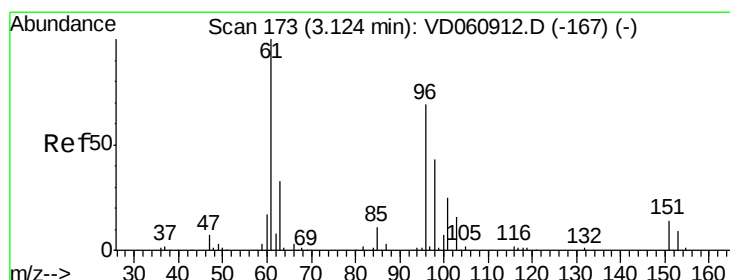
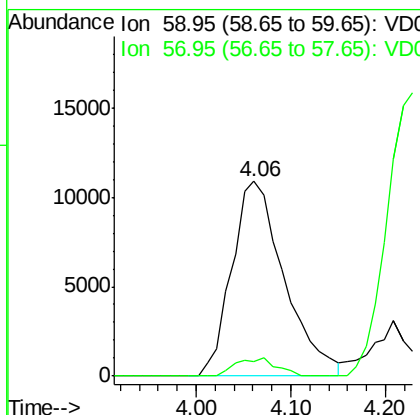
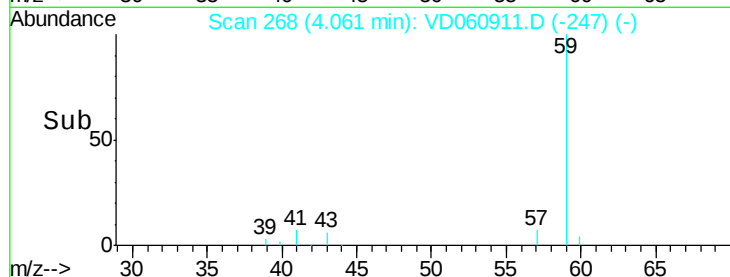
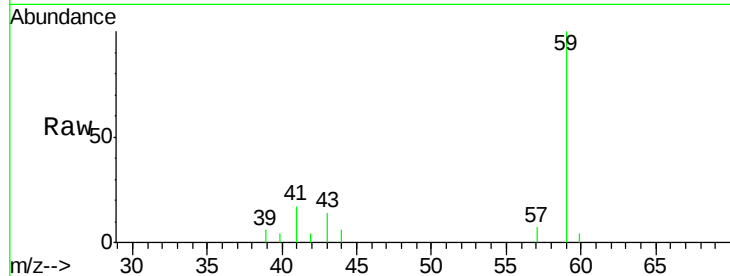
Tert butyl alcohol
Concen: 110.293 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
59	59	100		
57	57	7.4	5.8	8.8

Manual Integrations
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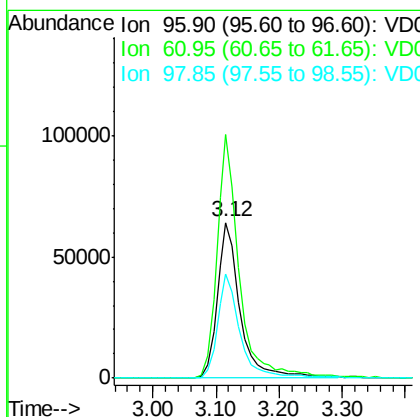
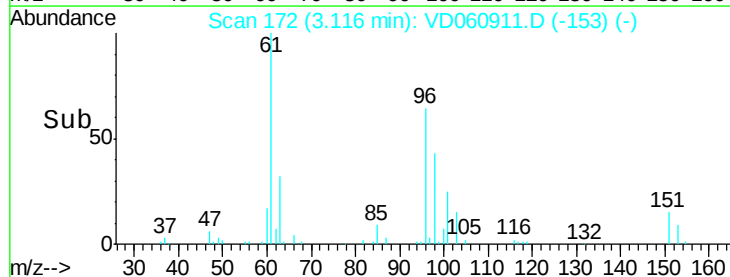
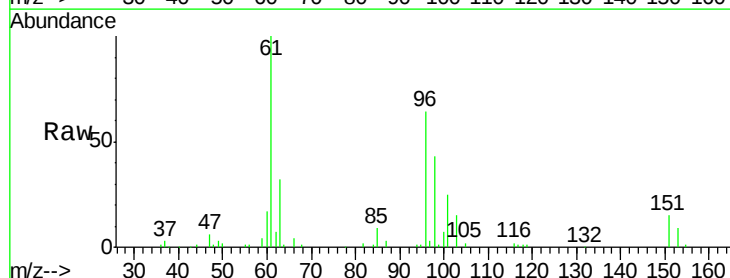
MMDadoda
3/6/2019 5:33:05 AM

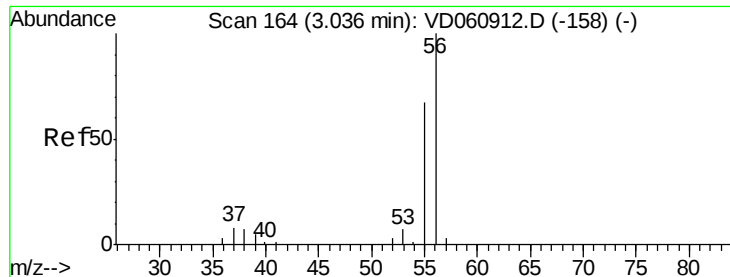


#12

1,1-Dichloroethene
Concen: 52.206 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	156.1	112.4	168.6
98	98	67.2	51.0	76.6





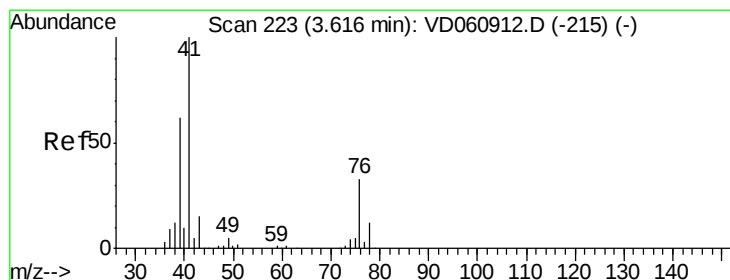
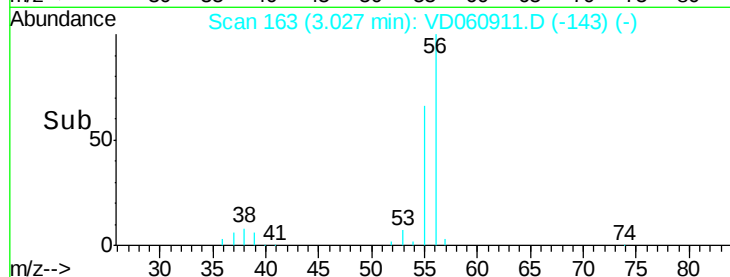
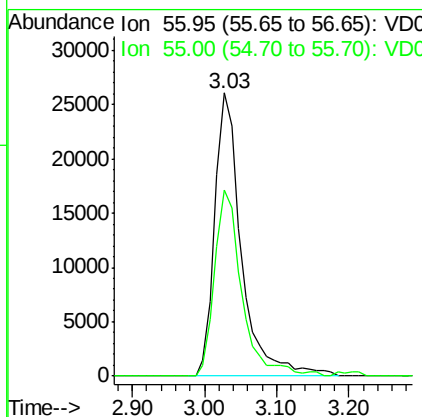
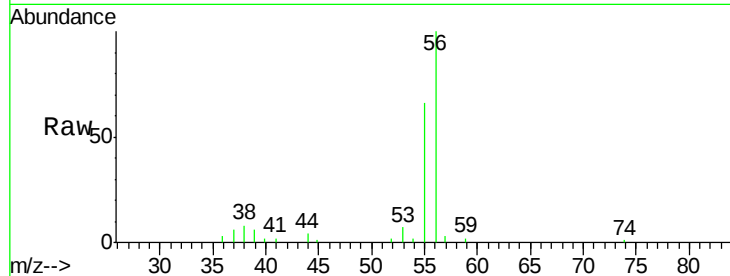
#13
Acrolein
Concen: 316.005 ug/l
RT: 3.03 min Scan# 163
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	56	Resp	66656
Ion Ratio	100	Lower	Upper
56	100		
55	65.5	56.8	85.2

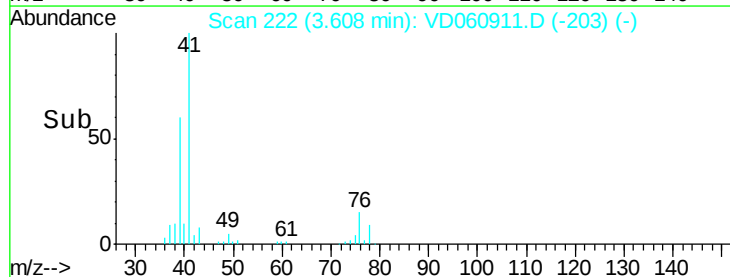
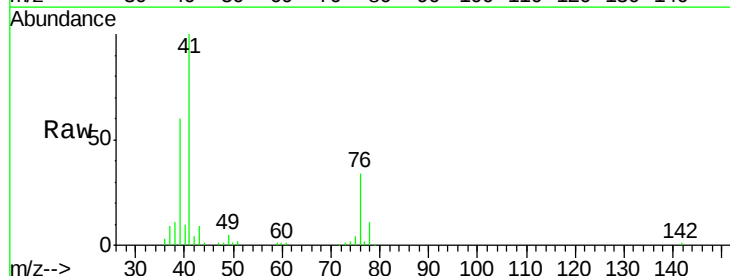
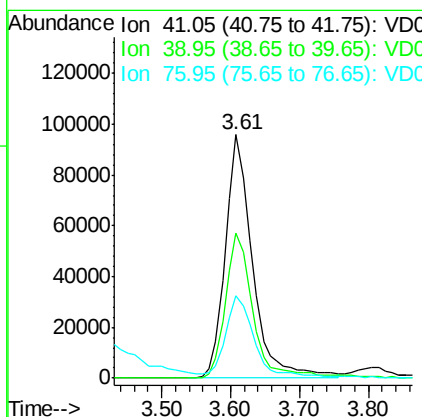
Manual Integrations
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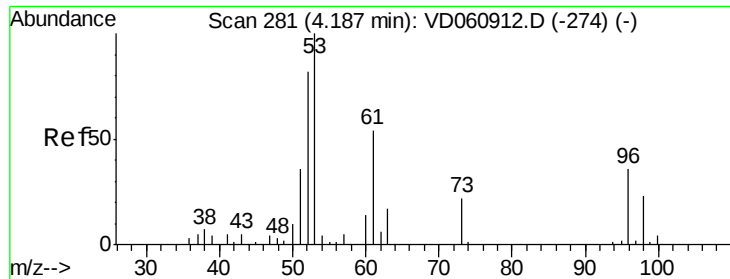
MMDadoda
3/6/2019 5:33:05 AM



#14
Allyl chloride
Concen: 25.729 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	41	Resp	262708
Ion Ratio	100	Lower	Upper
41	100		
39	59.7	55.7	83.5
76	33.6	31.3	46.9





#15

Acrylonitrile

Concen: 139.311 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

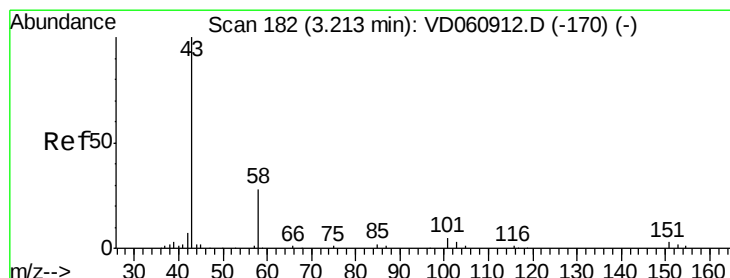
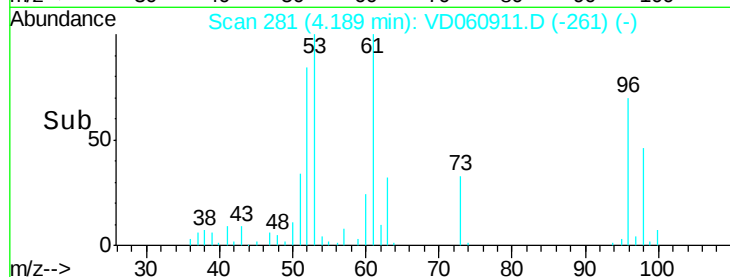
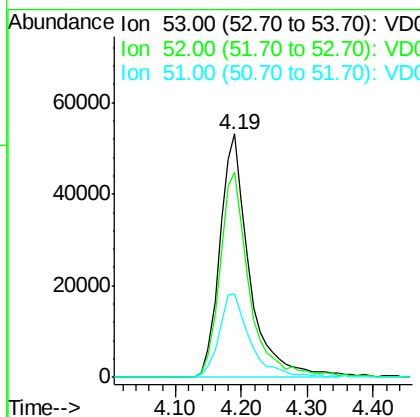
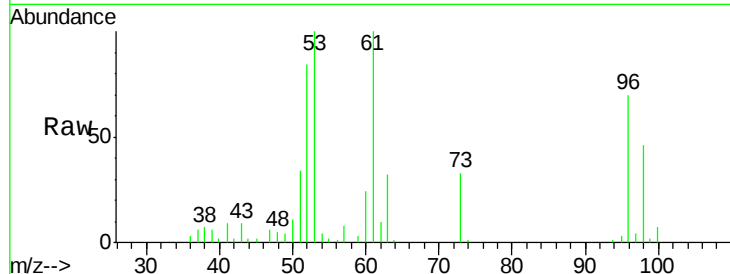
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	165498
Ion Ratio	Lower	Upper	
53	100		
52	84.3	66.2	99.2
51	34.4	31.0	46.6

Manual Integrations
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MMDadoda
3/6/2019 5:33:05 AM



#16

Acetone

Concen: 130.957 ug/l

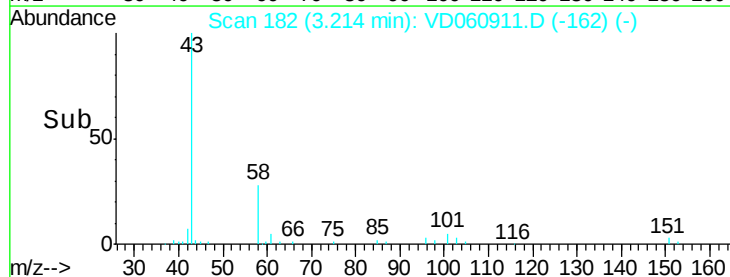
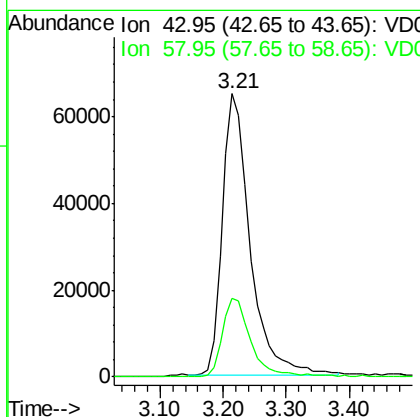
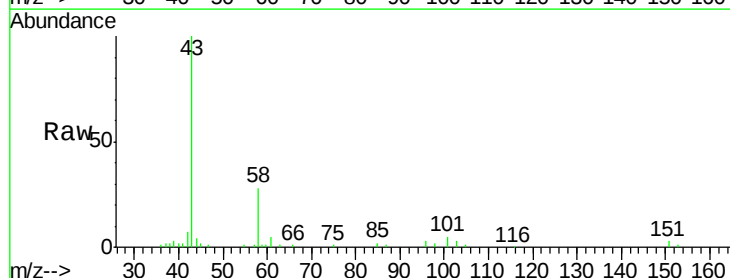
RT: 3.21 min Scan# 182

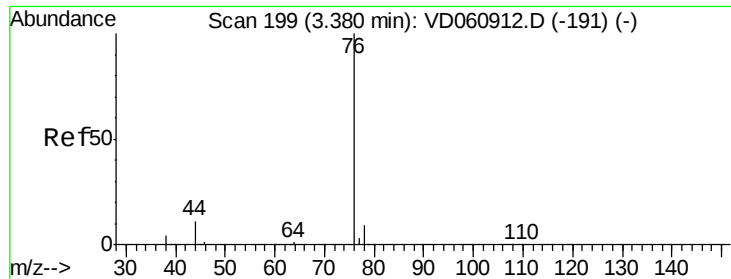
Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	43	Resp:	199065
Ion Ratio	Lower	Upper	
43	100		
58	27.9	18.4	27.6#





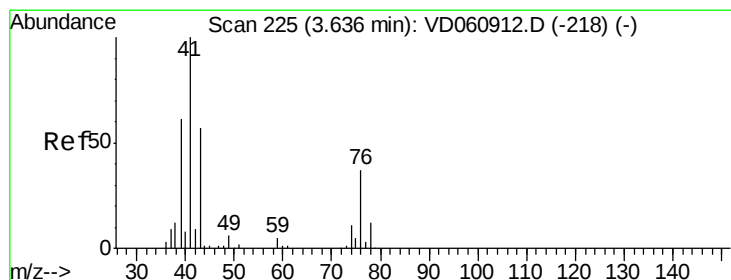
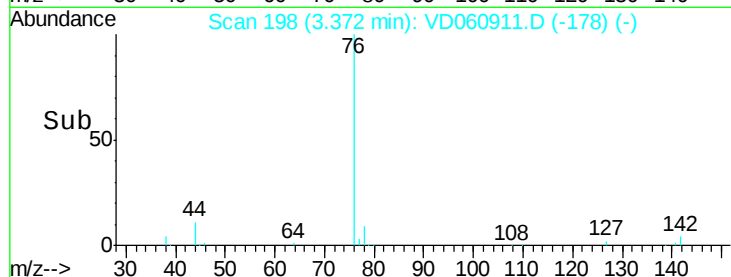
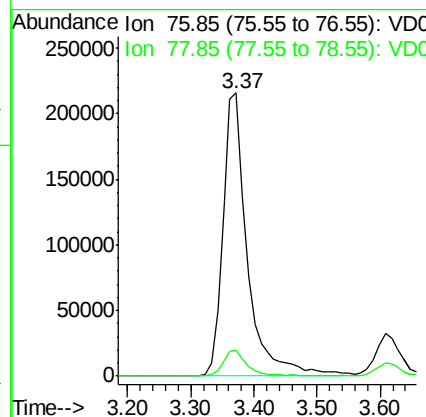
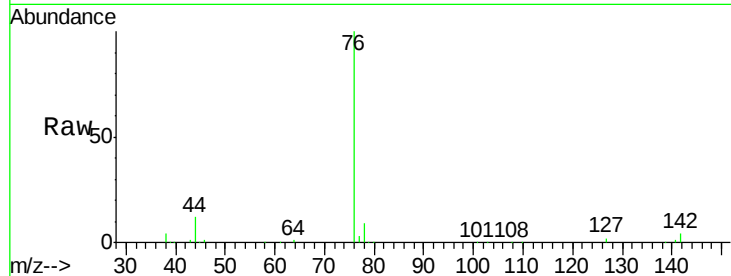
#17
Carbon Disulfide
Concen: 25.358 ug/l
RT: 3.37 min Scan# 198
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

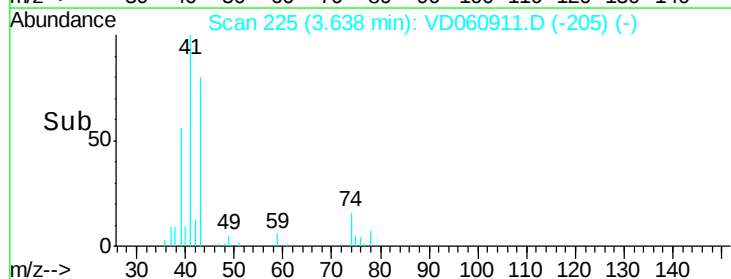
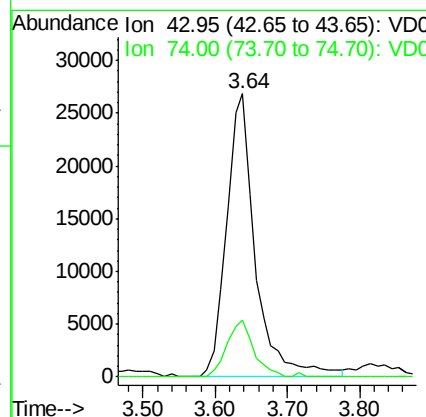
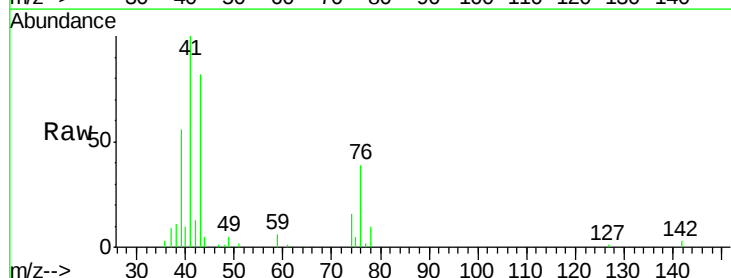
Manual Integrations
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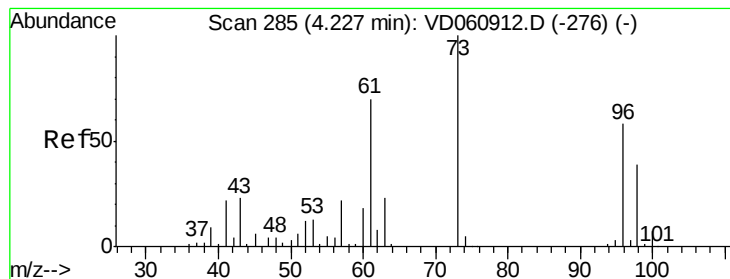
MMDadoda
3/6/2019 5:33:05 AM



#18
Methyl Acetate
Concen: 23.446 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.9	18.6	28.0





#19

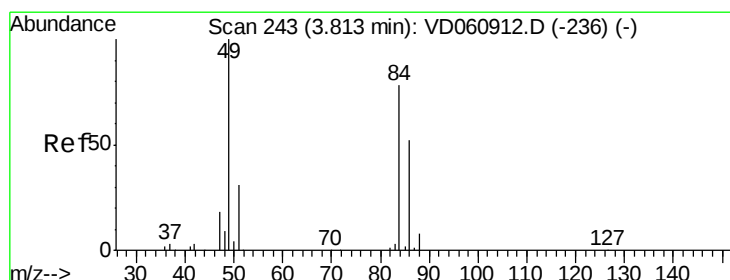
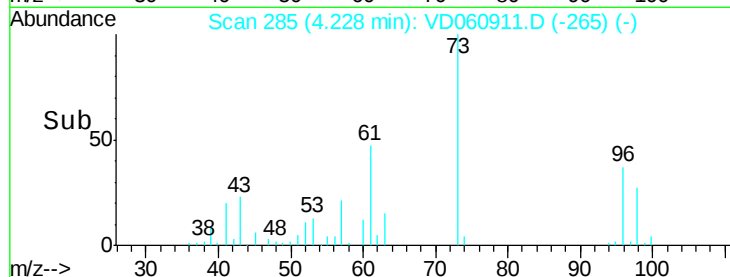
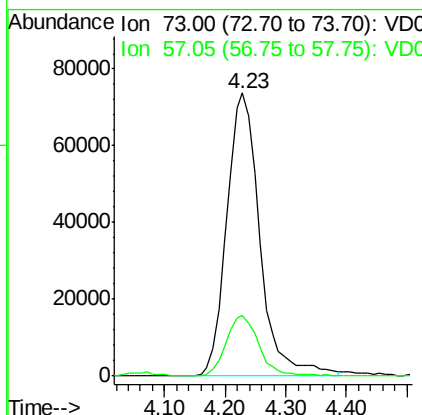
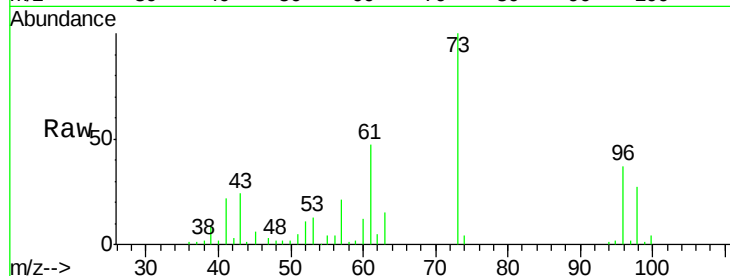
Methyl tert-butyl Ether
 Concen: 21.391 ug/l
 RT: 4.23 min Scan# 285
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.5	14.4	21.6

Manual Integrations
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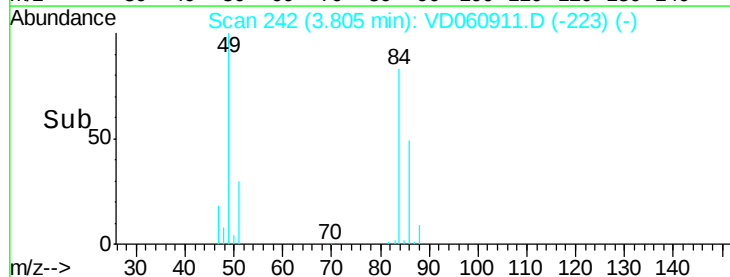
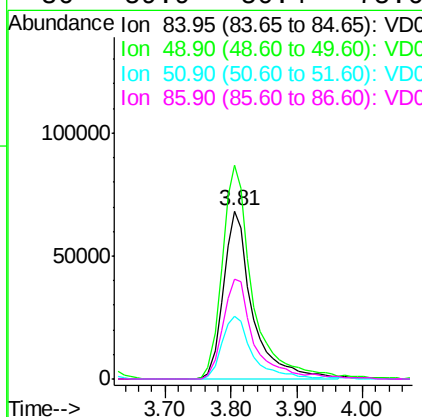
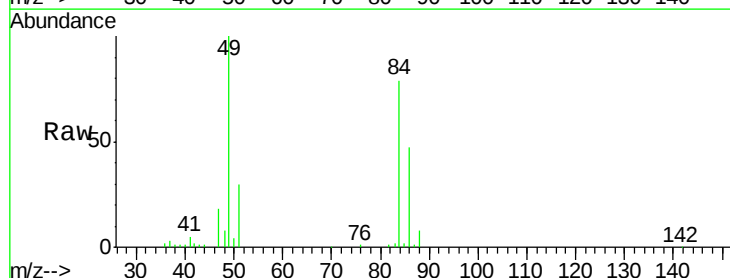
MMDadoda
 3/6/2019 5:33:05 AM

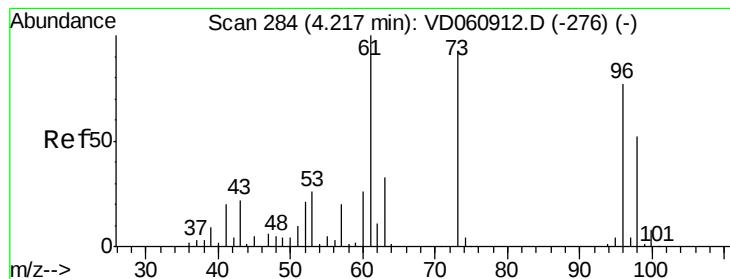


#20

Methylene Chloride
 Concen: 24.607 ug/l
 RT: 3.81 min Scan# 242
 Delta R.T. -0.01 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.4	84.7	127.1#
51	37.7	26.4	39.6
86	59.9	50.4	75.6





#21

trans-1,2-Dichloroethene

Concen: 25.352 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleID :

VSTDIC020

Tot Ion: 96 Resp: 175709

Ion Ratio Lower Upper

96 100

61 130.0 100.1 150.1

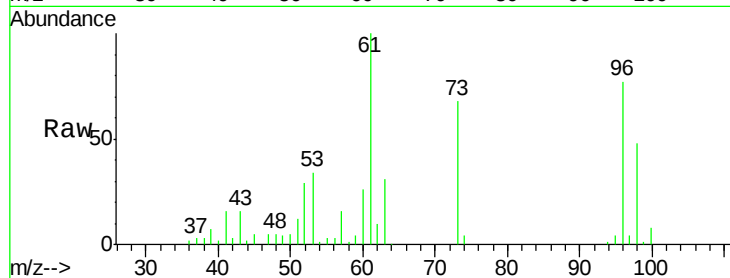
98 62.5 49.9 74.9

Manual Integrations

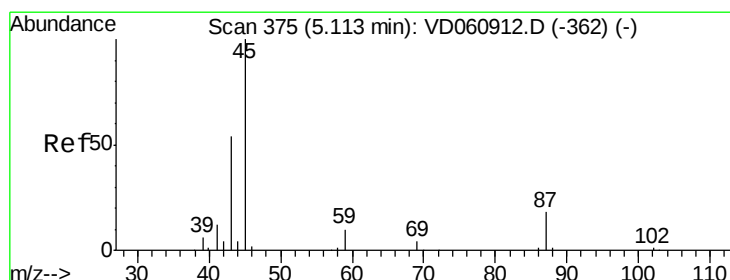
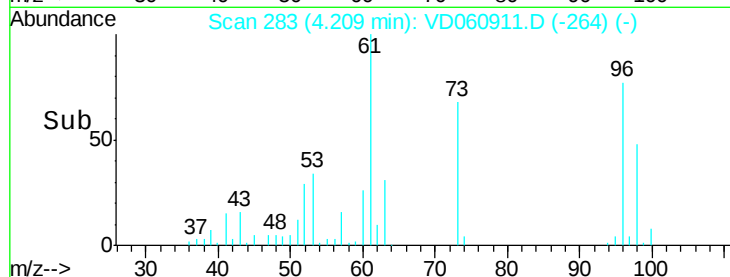
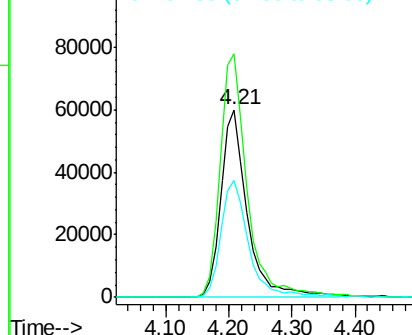
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 27.718 ug/l

RT: 5.10 min Scan# 374

Delta R.T. -0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion: 45 Resp: 555171

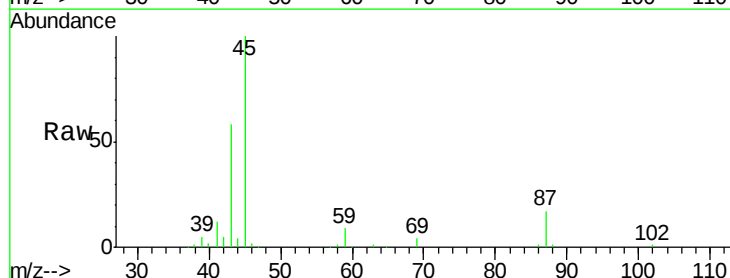
Ion Ratio Lower Upper

45 100

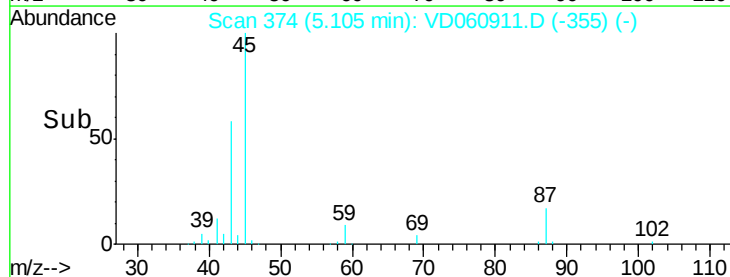
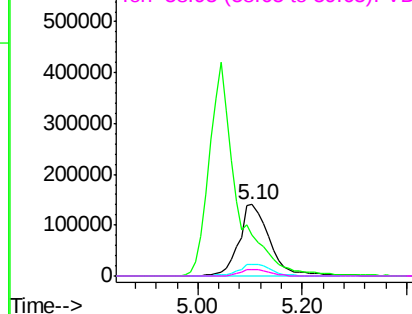
43 57.5 49.6 74.4

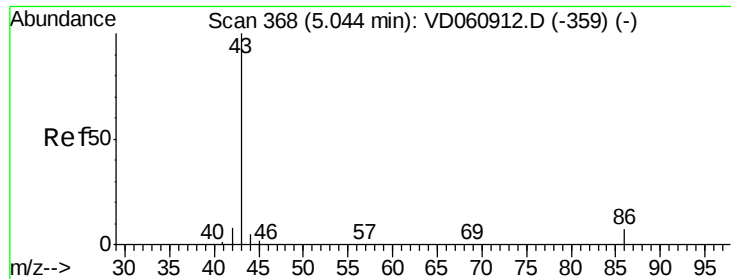
87 16.9 17.0 25.4#

59 8.8 7.9 11.9



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





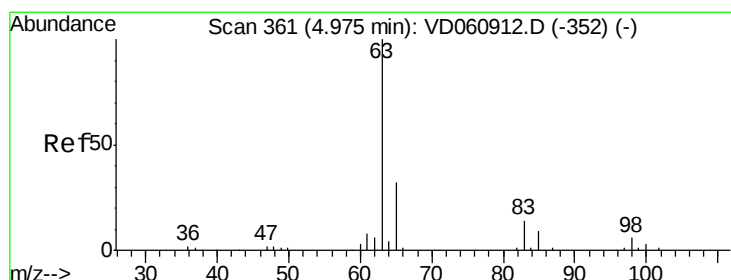
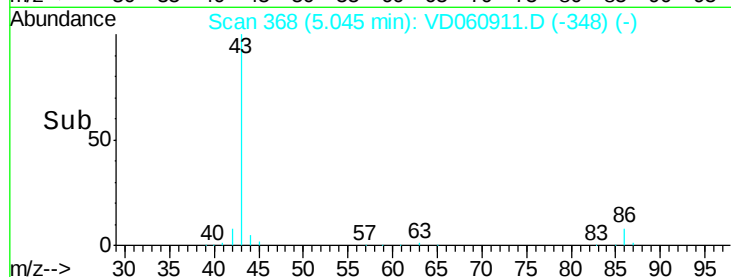
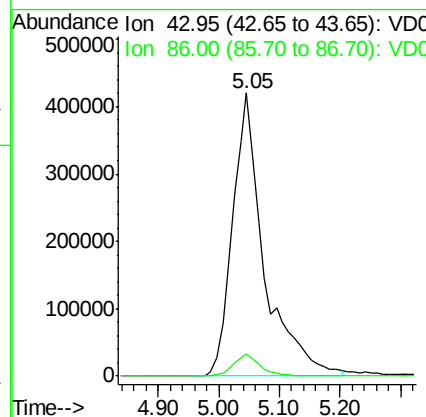
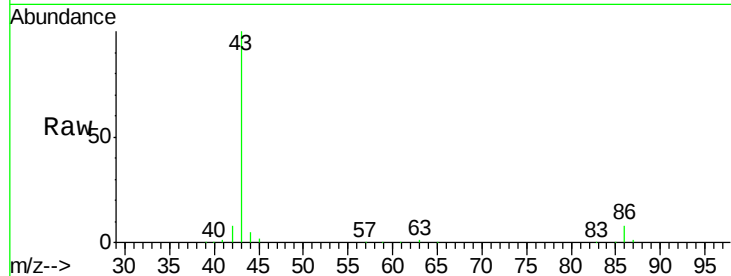
#23
 Vinyl Acetate
 Concen: 134.097 ug/l
 RT: 5.05 min Scan# 368
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1519896
 Ion Ratio Lower Upper
 43 100
 86 7.8 6.5 9.7

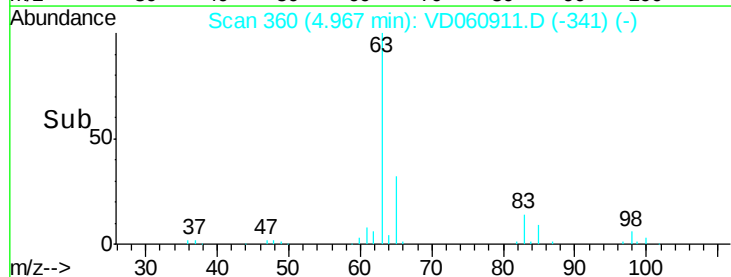
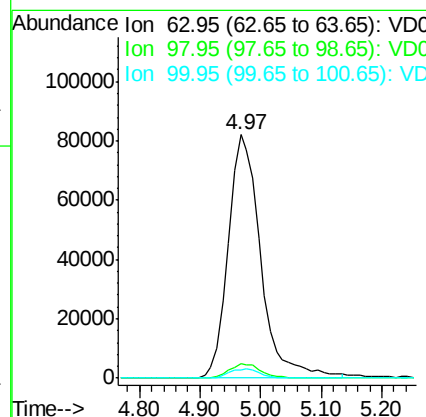
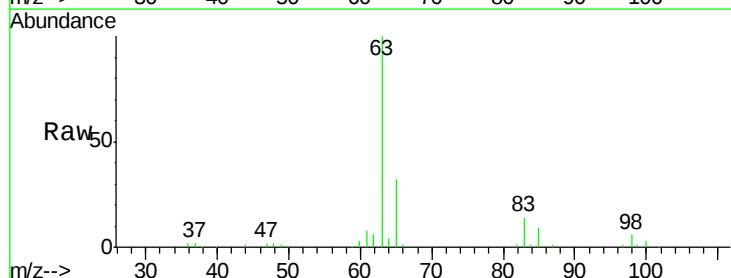
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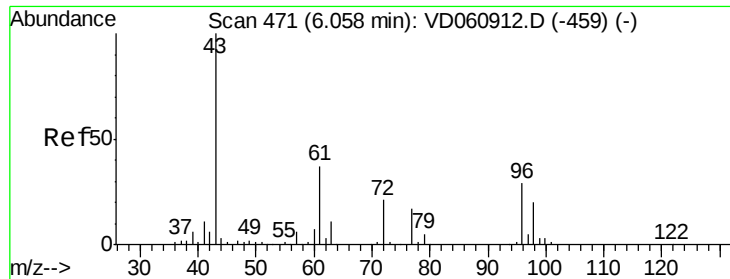
MMDadoda
 3/6/2019 5:33:05 AM



#24
 1,1-Dichloroethane
 Concen: 27.911 ug/l
 RT: 4.97 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion: 63 Resp: 305392
 Ion Ratio Lower Upper
 63 100
 98 5.9 2.9 8.6
 100 3.4 1.8 5.3





#25

2-Butanone

Concen: 124.091 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 248957

Ion Ratio Lower Upper

43 100

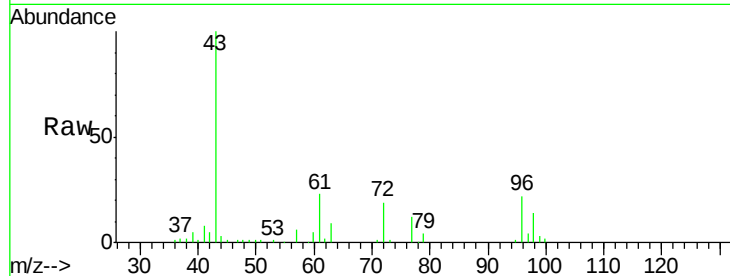
72 19.3 16.8 25.2

Manual Integrations

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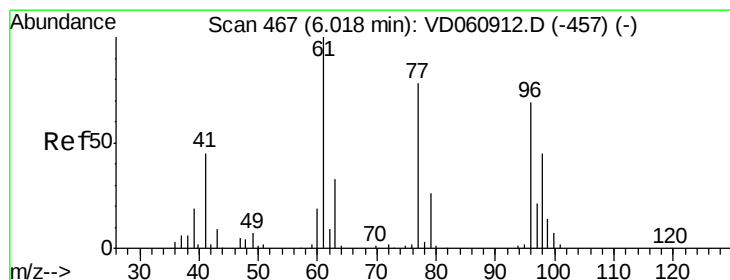
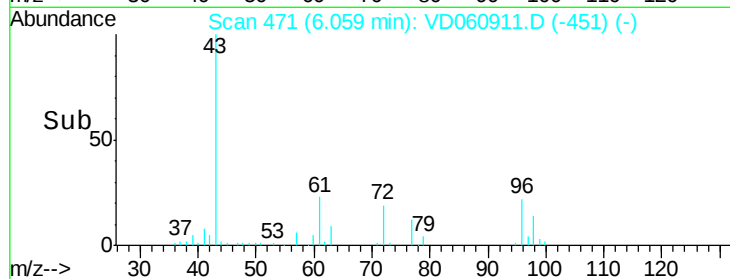
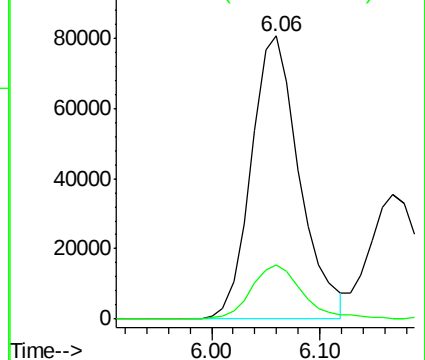
MMDadoda

3/6/2019 5:33:05 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.257 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.01 min

Lab File: VD060911.D

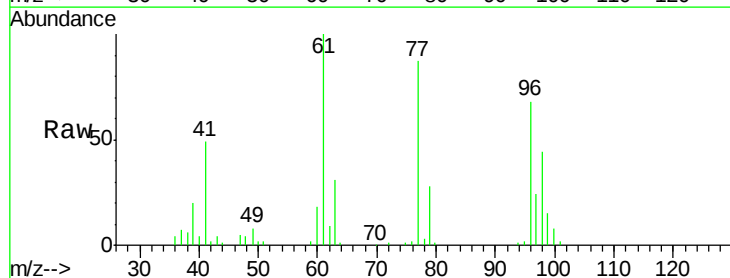
Acq: 1 Mar 2019 16:08

Tgt Ion: 77 Resp: 231180

Ion Ratio Lower Upper

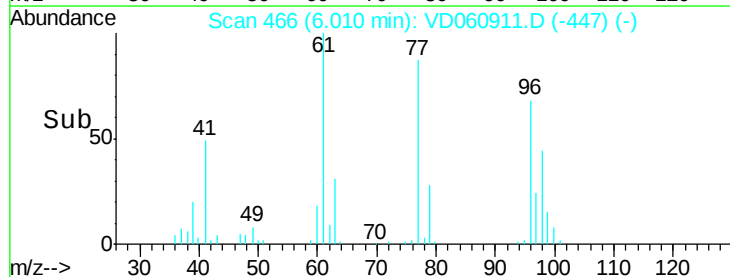
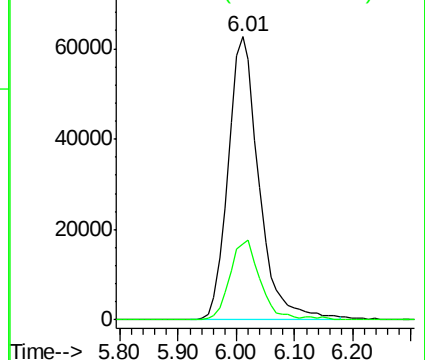
77 100

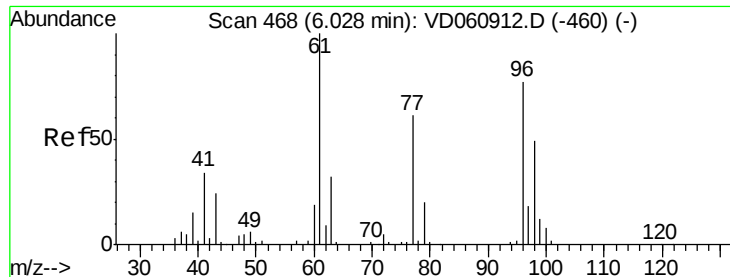
97 27.0 11.7 35.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

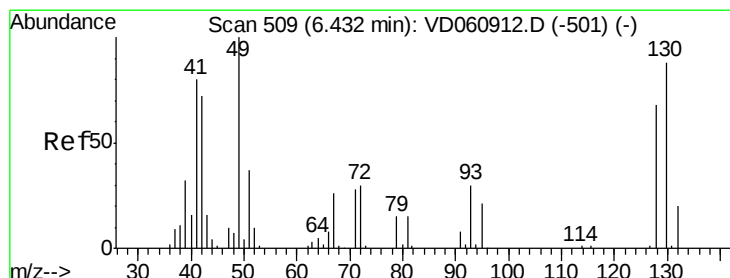
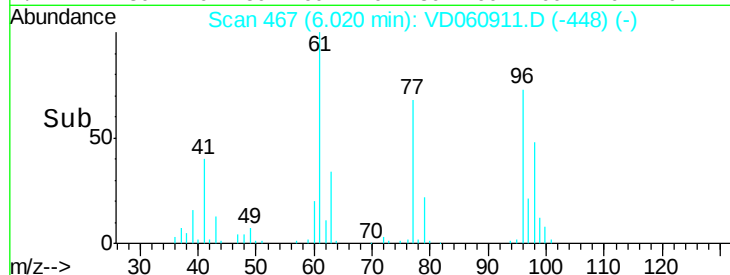
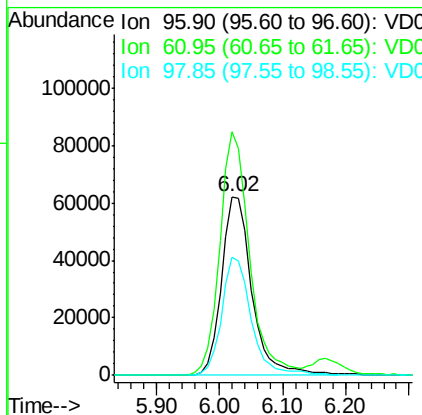
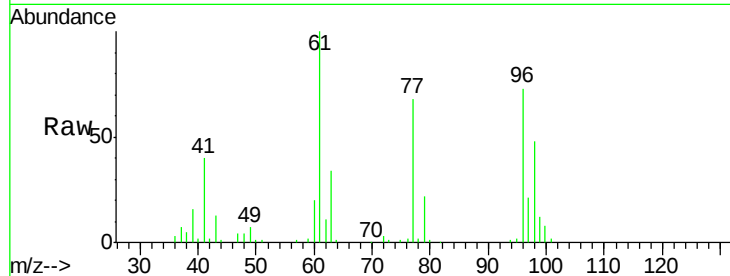
cis-1,2-Dichloroethene
Concen: 27.260 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	259.0
98	66.0	0.0	132.4

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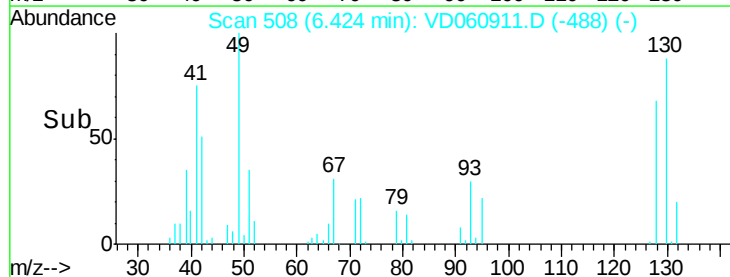
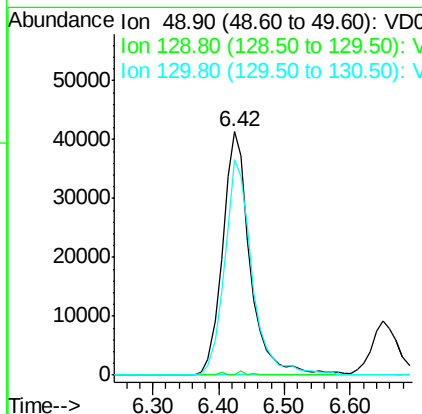
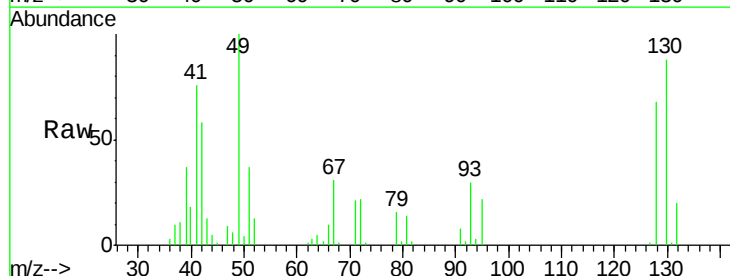
MMDadoda
3/6/2019 5:33:05 AM

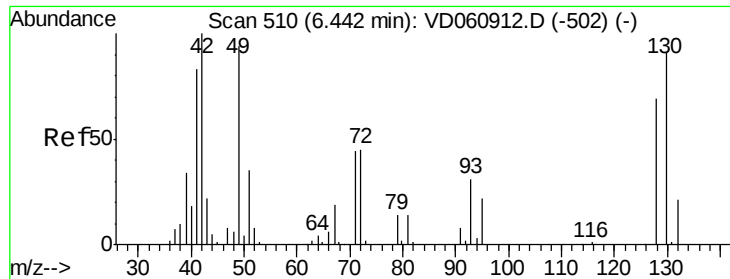


#28

Bromochloromethane
Concen: 28.042 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	88.4	69.8	104.8





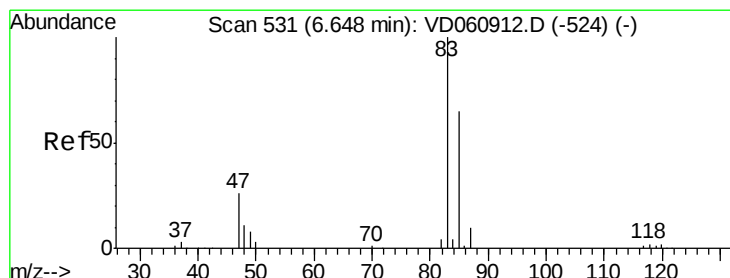
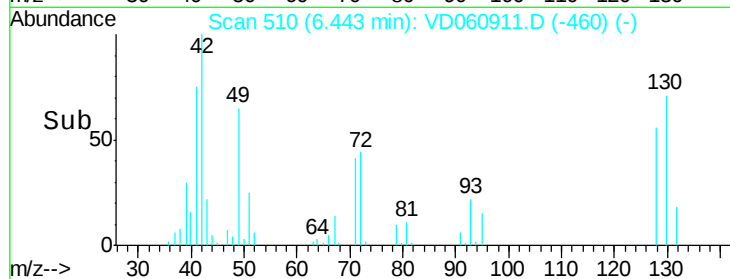
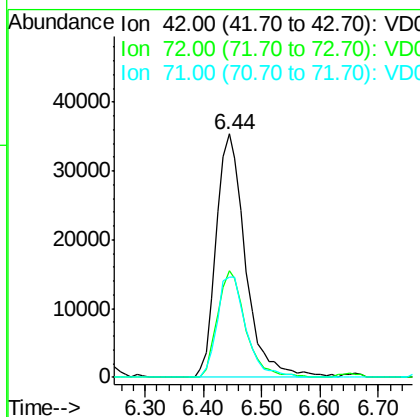
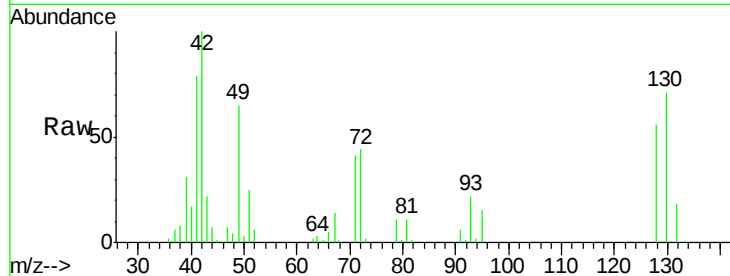
#29
Tetrahydrofuran
Concen: 123.617 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	36.2	54.2
71	40.9	35.4	53.0

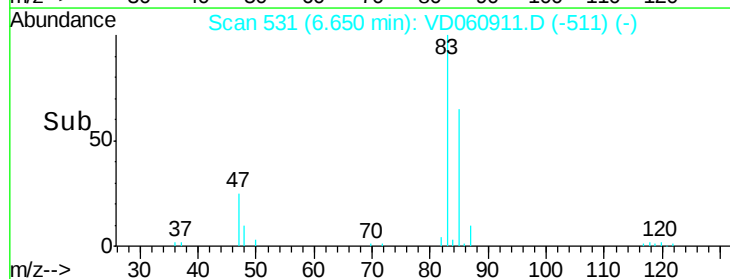
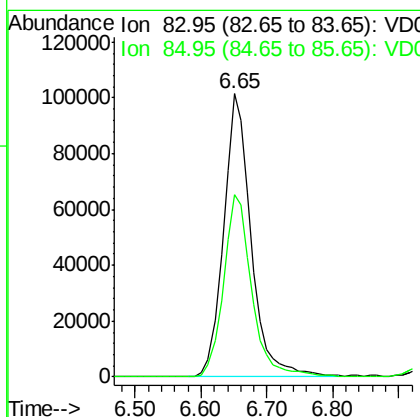
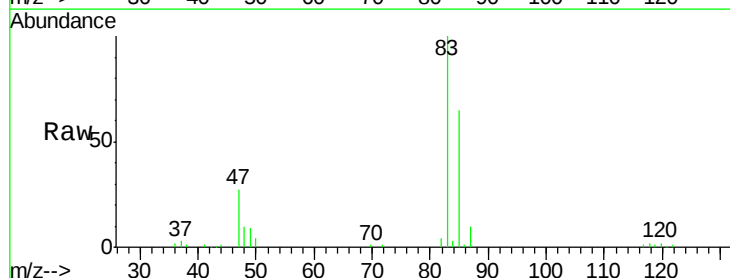
Manual Integrations
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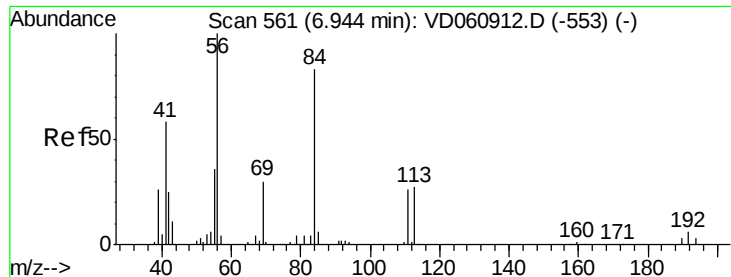
MMDadoda
3/6/2019 5:33:05 AM



#30
Chloroform
Concen: 22.817 ug/l
RT: 6.65 min Scan# 531
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.5	77.3





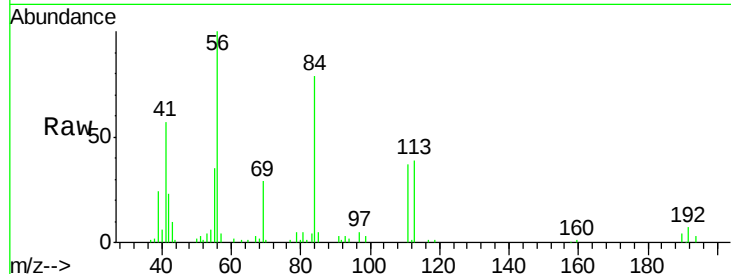
#31
Cyclohexane
Concen: 29.195 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

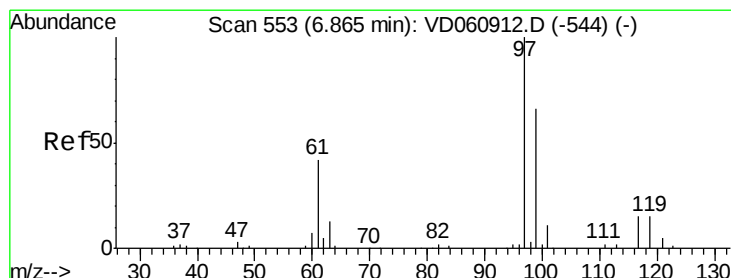
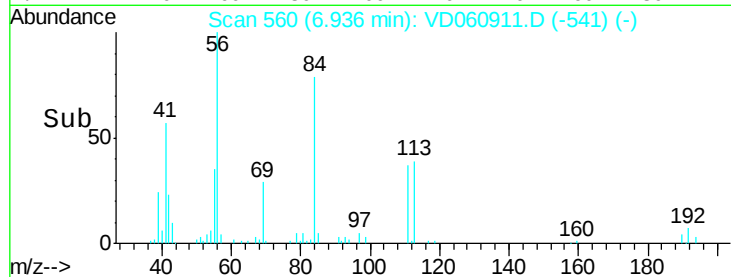
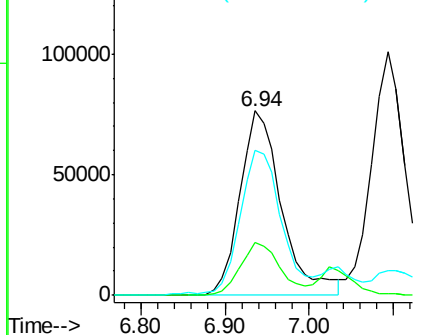
Tot Ion	Ratio	Lower	Upper
56	100		
69	28.9	25.3	37.9
84	78.7	78.1	117.1

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3/6/2019 5:33:05 AM

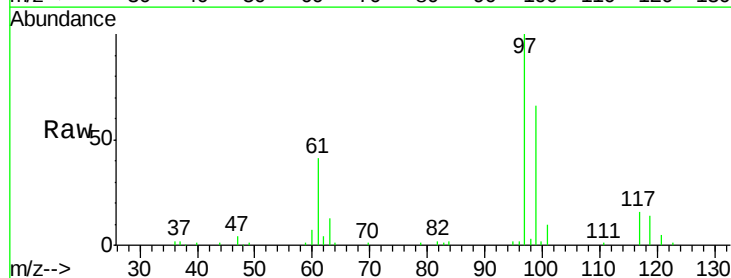


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

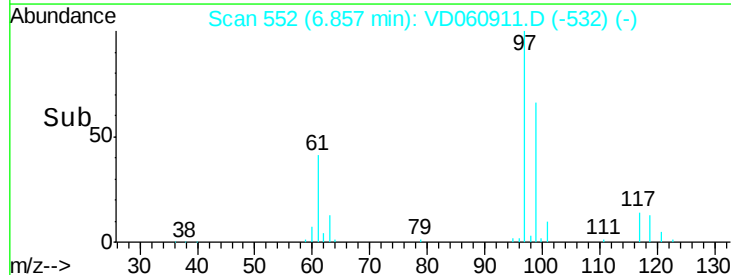
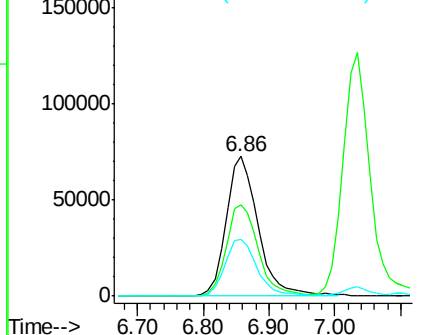


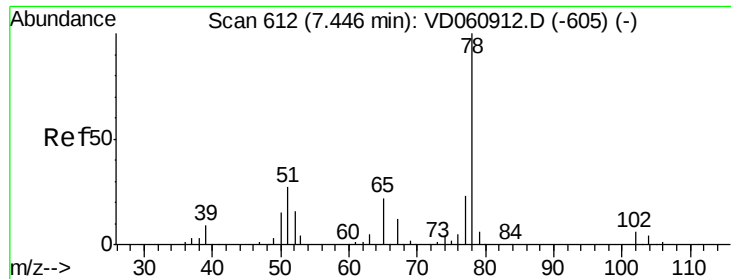
#32
1,1,1-Trichloroethane
Concen: 24.511 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.0	76.4
61	41.0	31.9	47.9



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





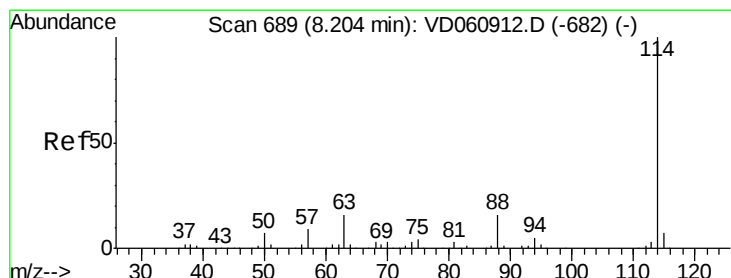
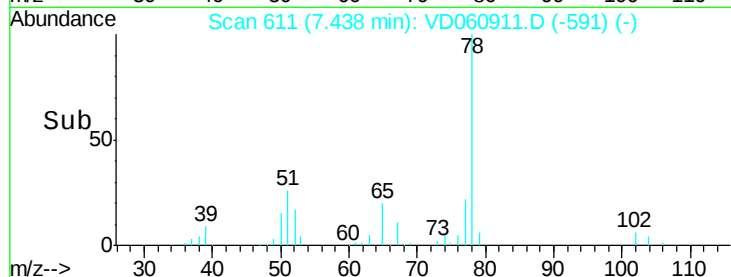
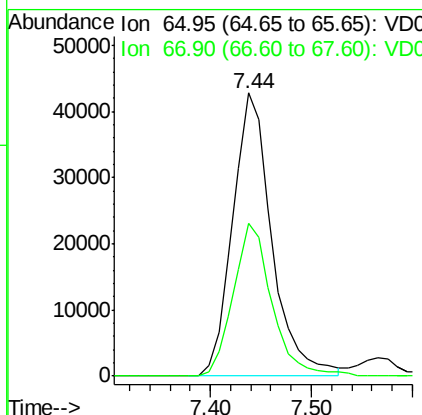
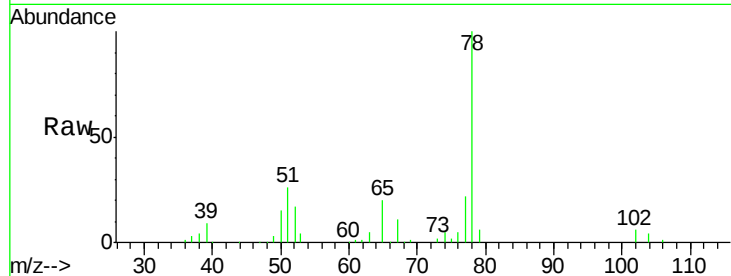
#33
 1,2-Dichloroethane-d4
 Concen: 24.511 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 65 Resp: 115700
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 106.0

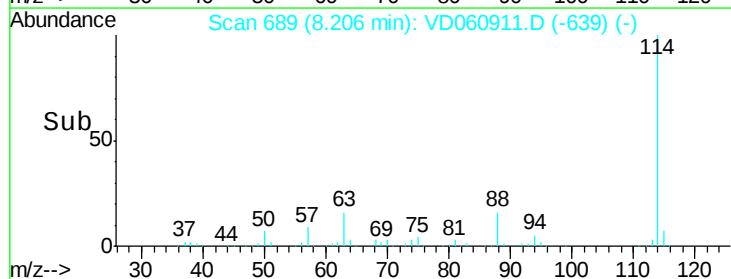
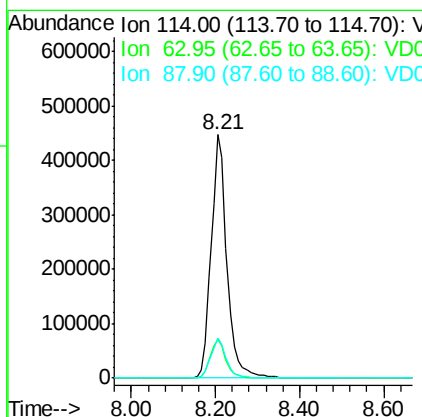
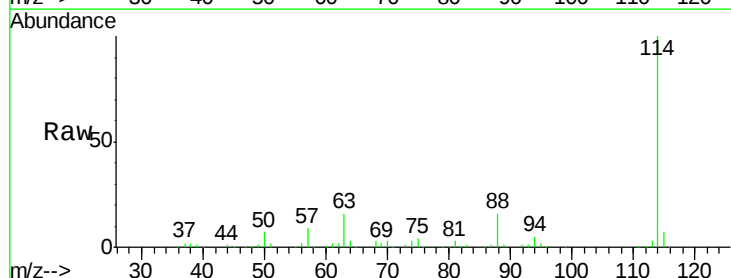
Manual Integrations
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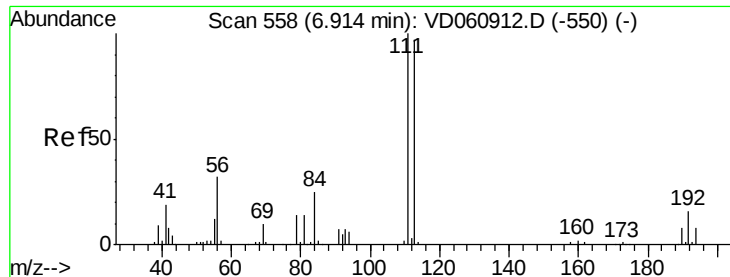
MMDadoda
 3/6/2019 5:33:05 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion: 114 Resp: 1159647
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 34.8
 88 16.4 0.0 39.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

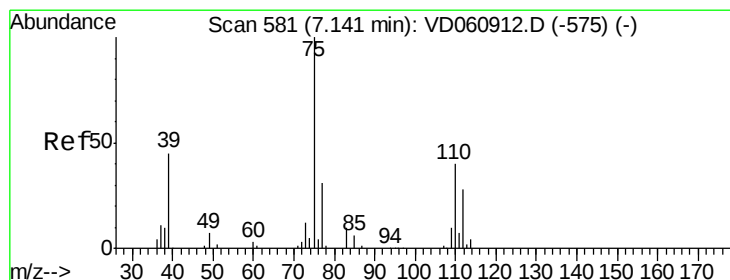
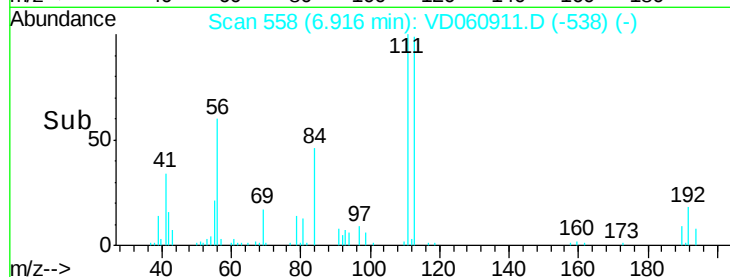
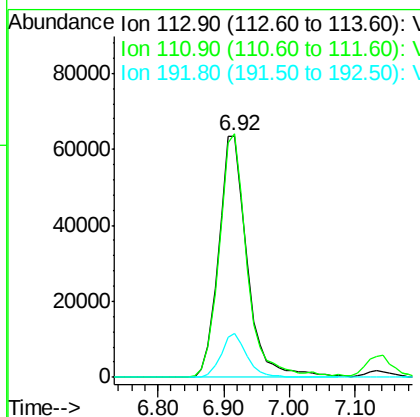
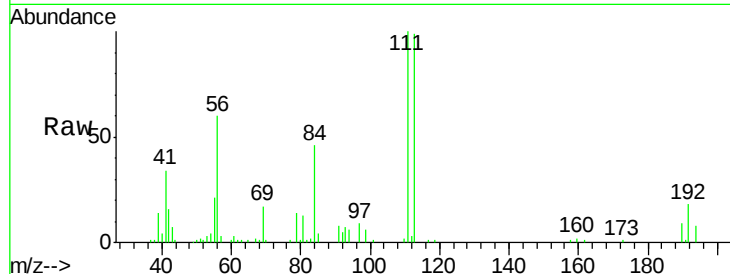
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	191439
Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	18.2	16.9	25.3

Manual Integrations
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3/6/2019 5:33:05 AM



#36

1,1-Dichloropropene

Concen: 18.751 ug/l

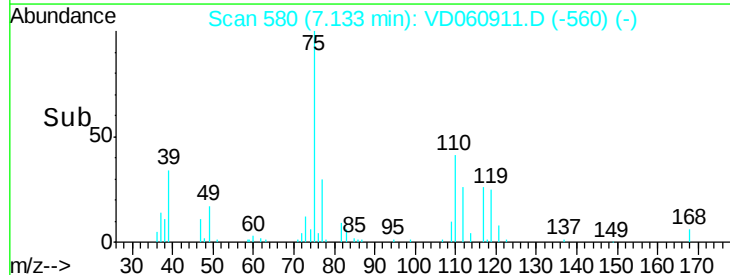
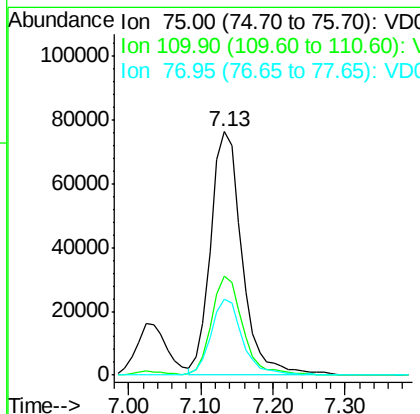
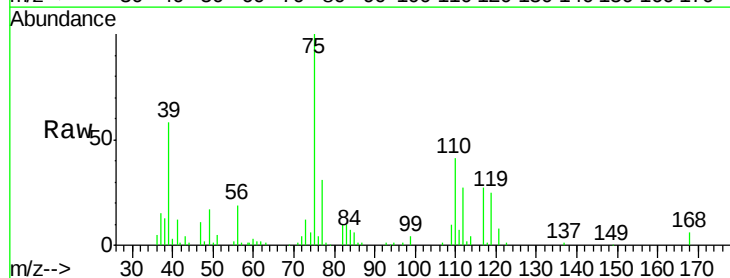
RT: 7.13 min Scan# 580

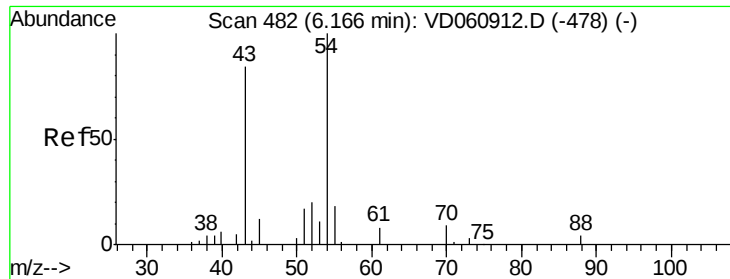
Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	75	Resp:	227496
Ion	Ratio	Lower	Upper
75	100		
110	40.9	16.8	50.3
77	31.2	25.8	38.8





#37

Ethyl Acetate

Concen: 21.491 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

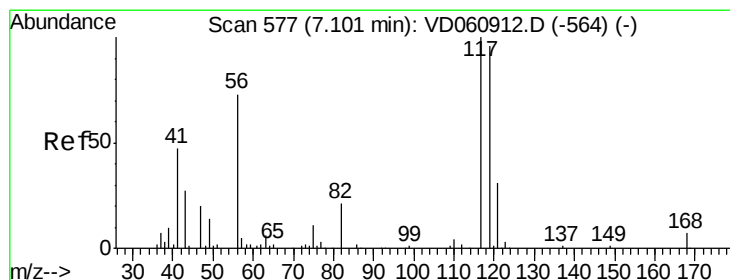
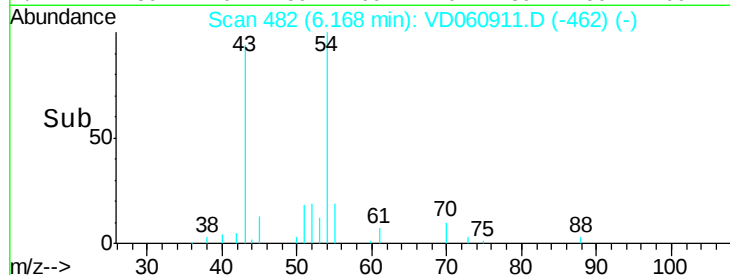
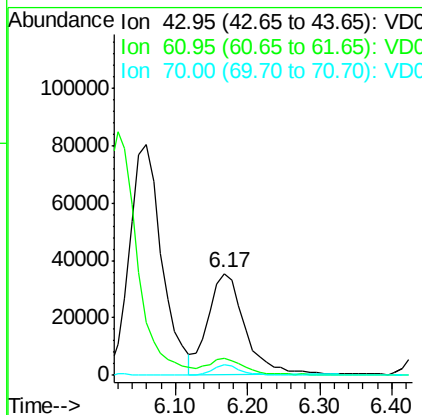
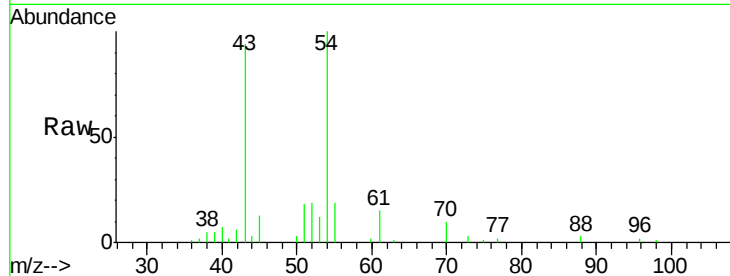
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	122584
Ion	Ratio	Lower	Upper
43	100		
61	16.5	12.5	18.7
70	10.4	7.9	11.9

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 20.722 ug/l

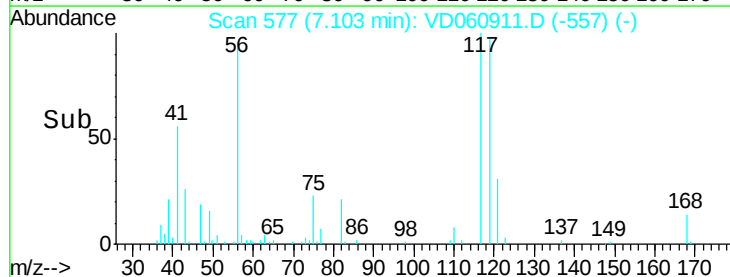
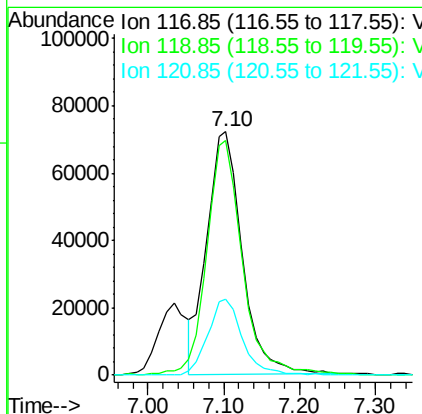
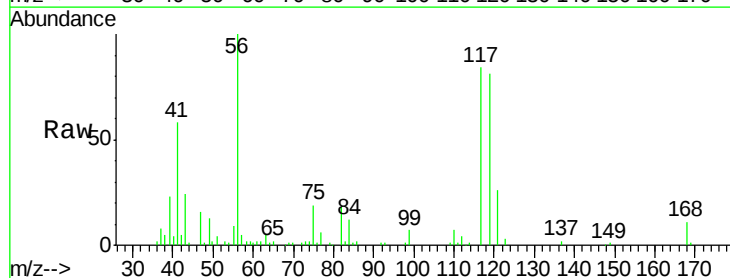
RT: 7.10 min Scan# 577

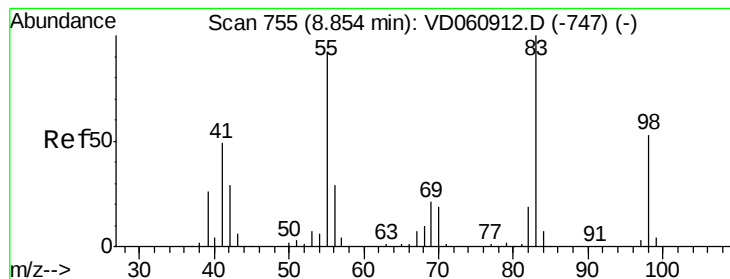
Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	117	Resp:	233287
Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.2	115.8
121	31.1	25.0	37.4





#39

Methvlcvclohexane

Concen: 19.147 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 246946

Ion Ratio Lower Upper

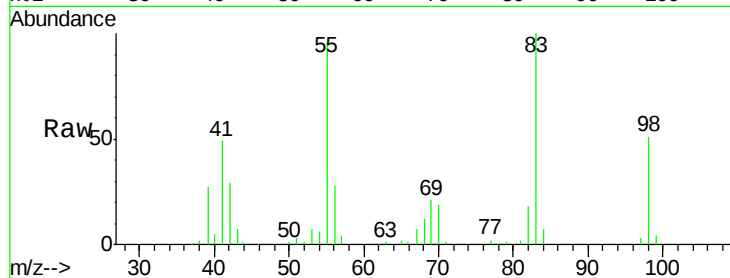
83 100

55 94.6 58.8 88.2#

98 51.2 36.8 55.2

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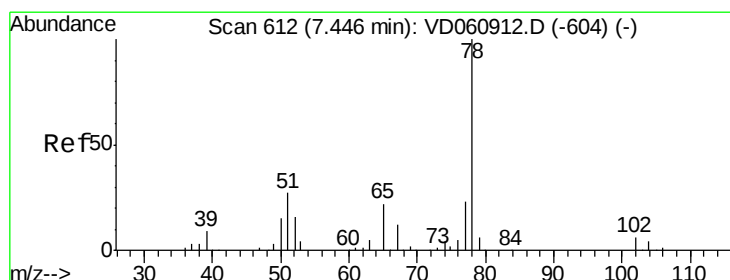
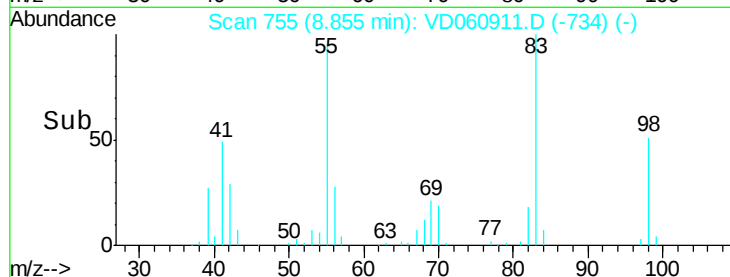
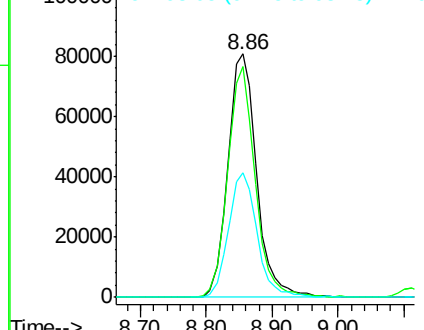
MMDadoda
3/6/2019 5:33:05 AM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 19.924 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD060911.D

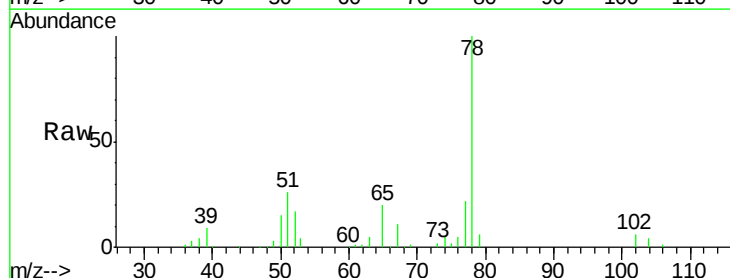
Acq: 1 Mar 2019 16:08

Tgt Ion: 78 Resp: 600761

Ion Ratio Lower Upper

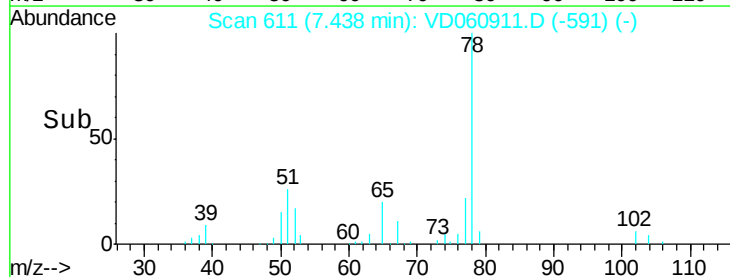
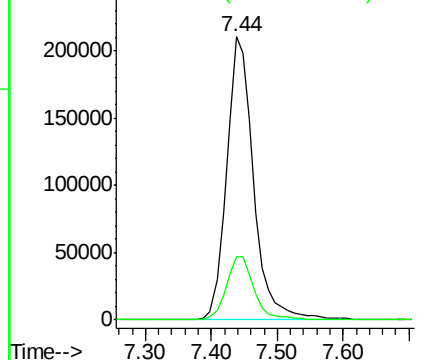
78 100

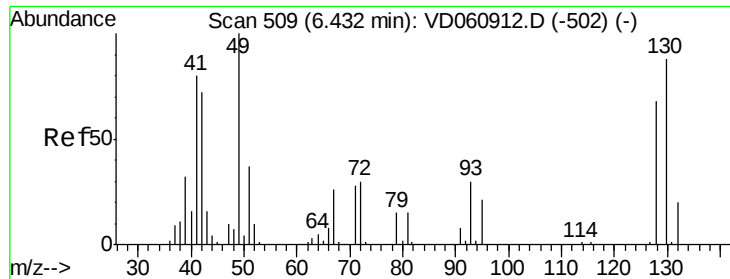
77 22.4 18.9 28.3



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





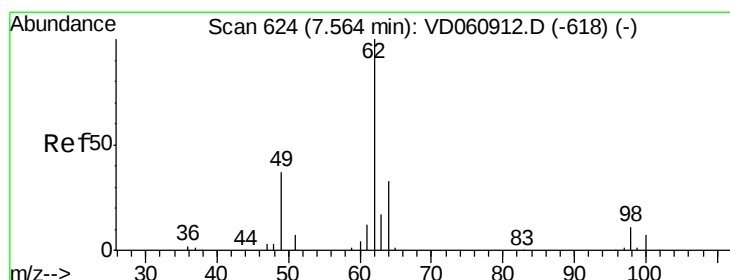
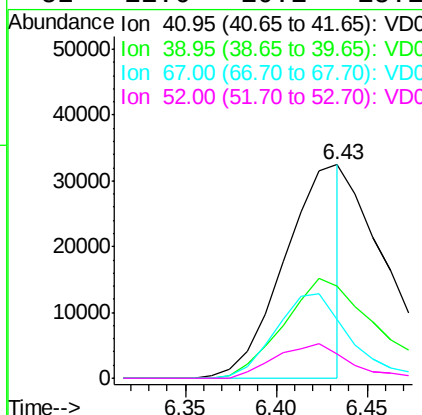
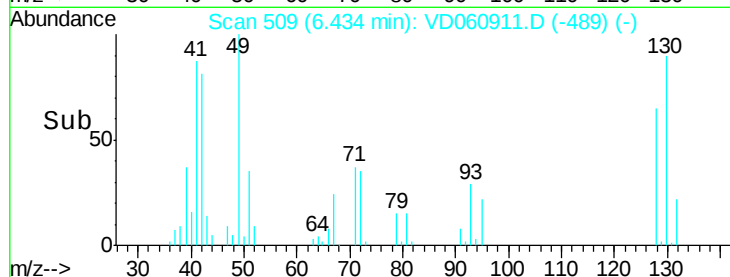
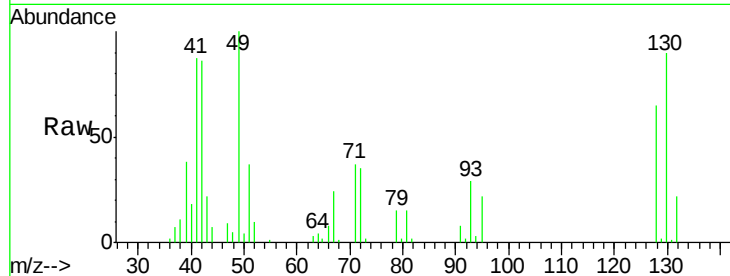
#41
Methacrylonitrile
Concen: 23.490 ug/l m
RT: 6.43 min Scan# 509
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	43.4	36.9	55.3
67	27.5	24.9	37.3
52	11.6	10.1	15.1

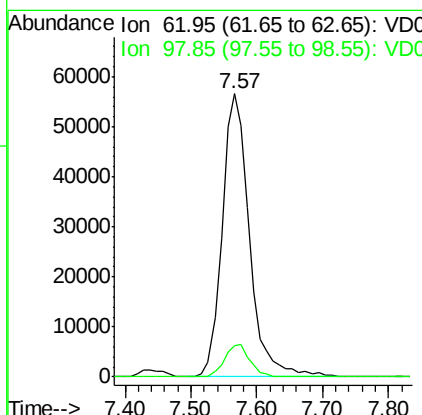
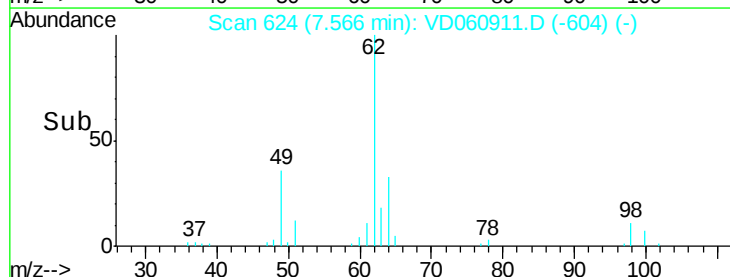
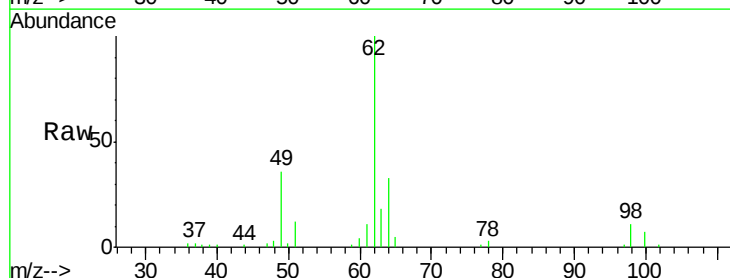
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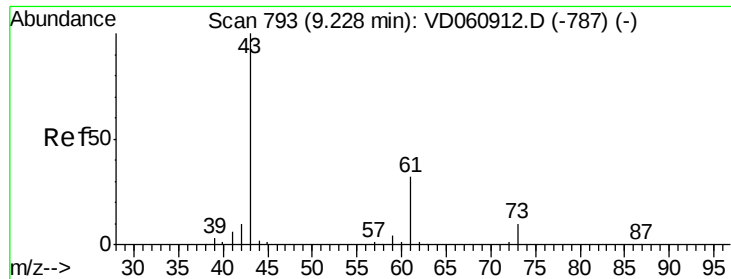
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#42
1,2-Dichloroethane
Concen: 19.983 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.6





#43

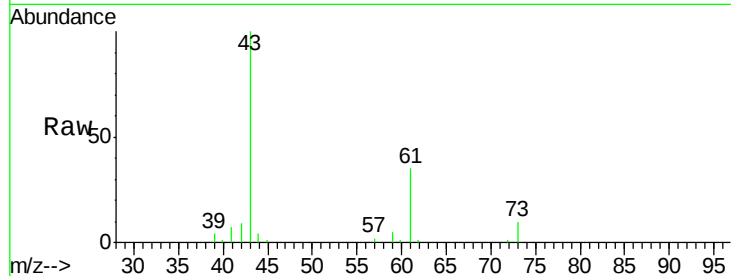
Isopropyl Acetate
 Concen: 20.021 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

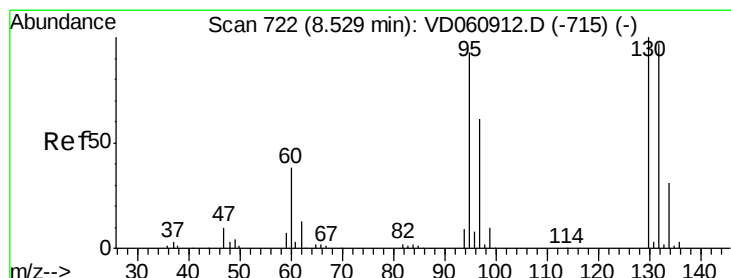
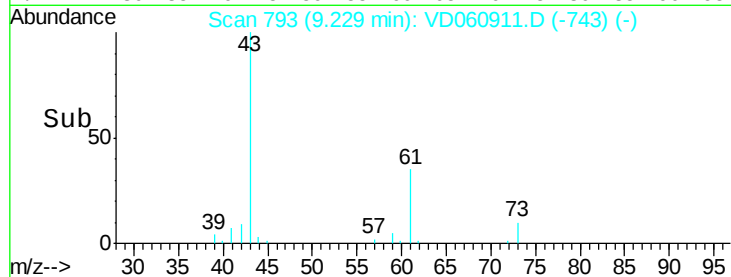
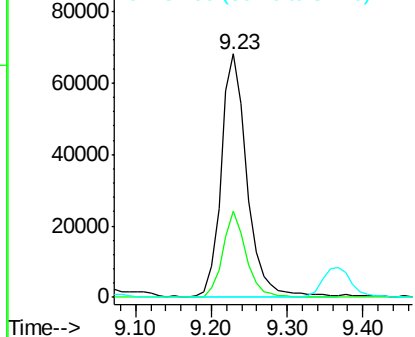
Tot Ion	Ratio	Lower	Upper
43	100		
61	35.4	25.4	38.2
87	0.0	0.3	0.5

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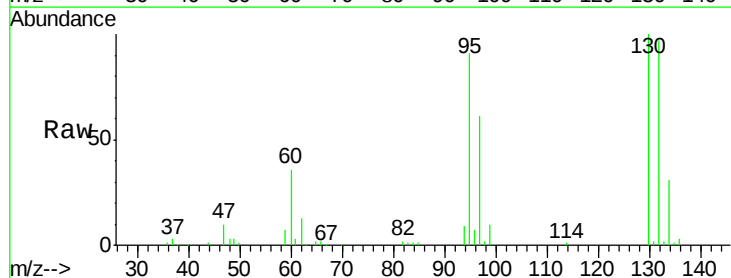
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



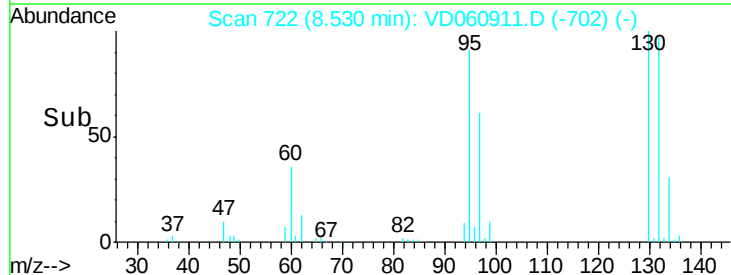
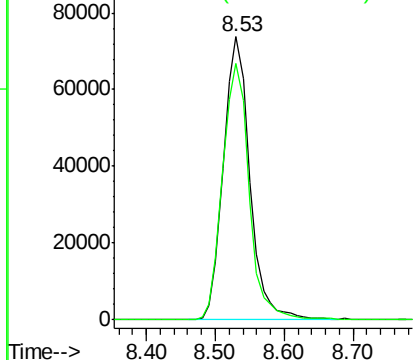
#44

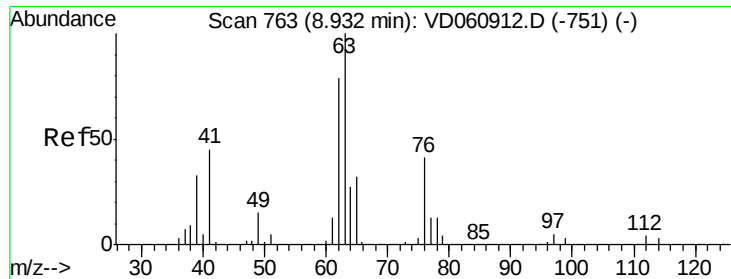
Trichloroethene
 Concen: 19.968 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	179.6



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 22.641 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 159466

Ion Ratio Lower Upper

63 100

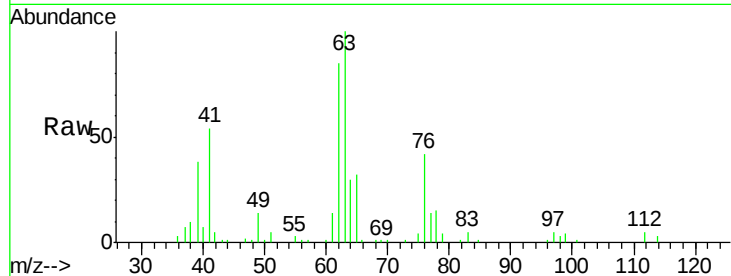
65 32.1 24.6 36.8

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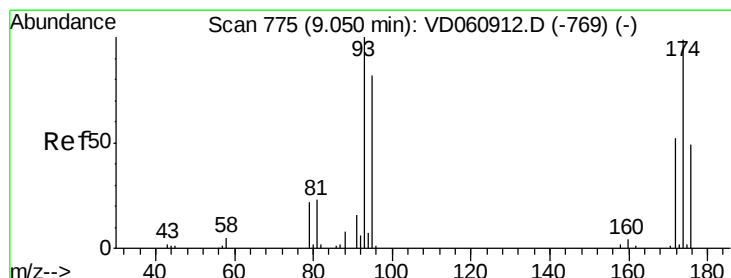
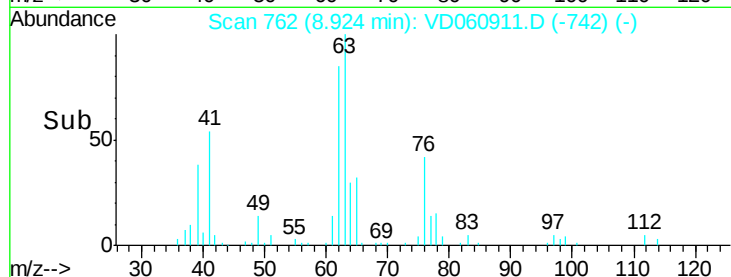
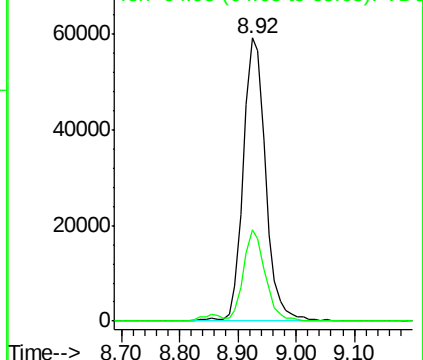
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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 19.706 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

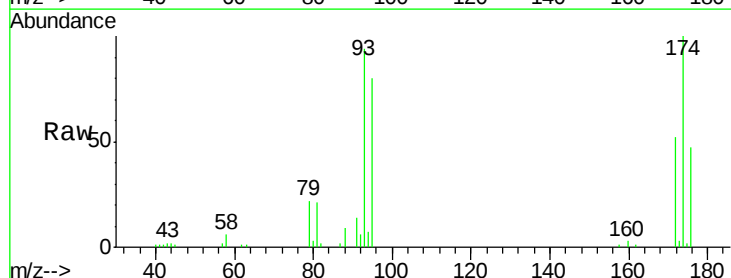
Tgt Ion: 93 Resp: 99728

Ion Ratio Lower Upper

93 100

95 85.2 64.0 96.0

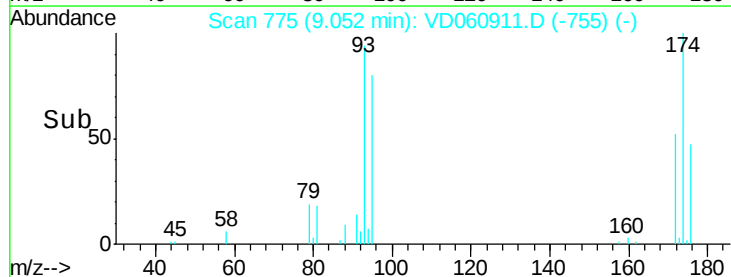
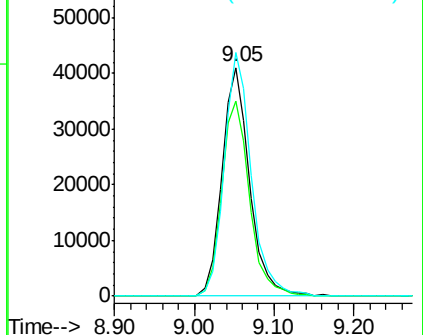
174 106.4 93.1 139.7

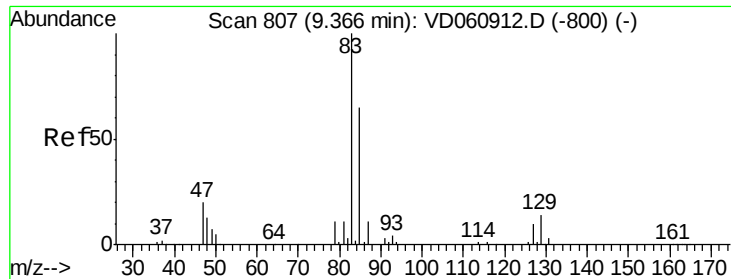


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 17.690 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

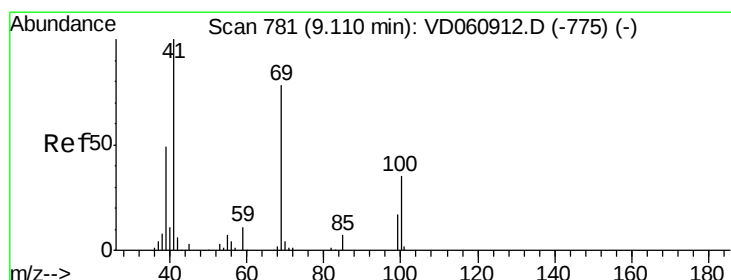
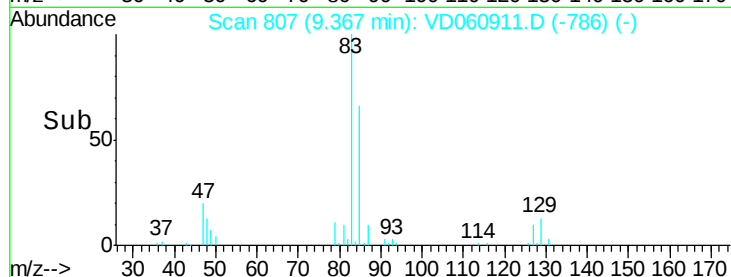
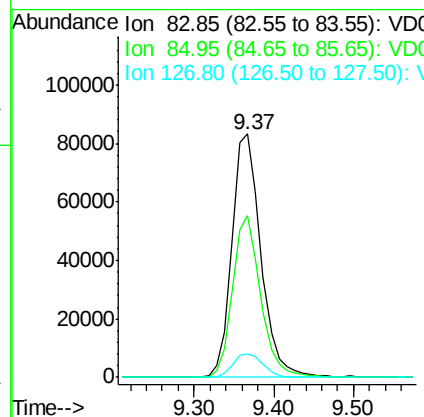
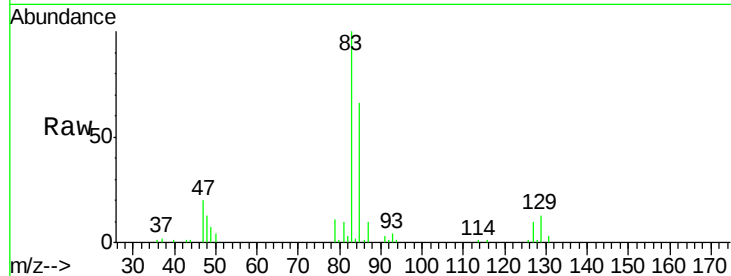
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	212315
Ion	Ratio	Lower	Upper
83	100		
85	66.4	50.8	76.2
127	9.7	7.3	10.9

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#48

Methyl methacrylate

Concen: 20.329 ug/l

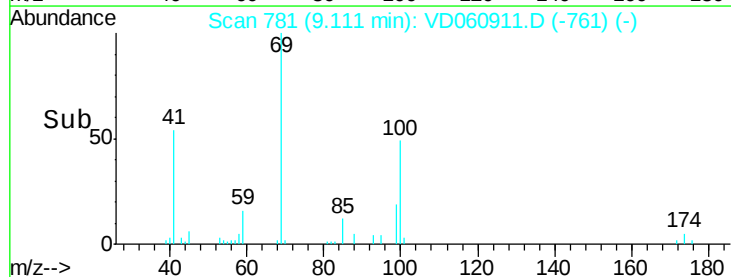
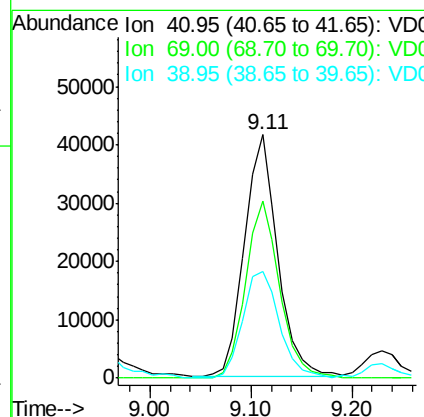
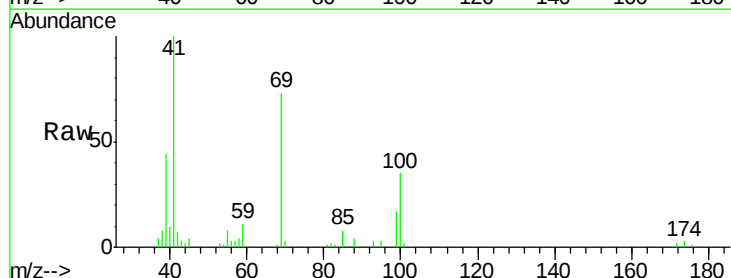
RT: 9.11 min Scan# 781

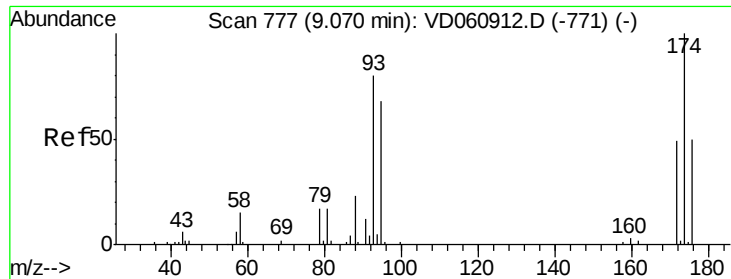
Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	41	Resp:	94565
Ion	Ratio	Lower	Upper
41	100		
69	72.8	61.4	92.2
39	43.7	42.1	63.1





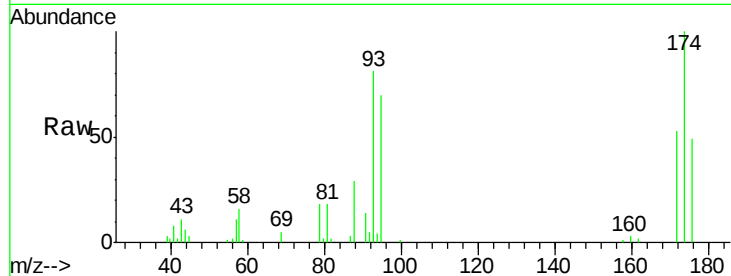
#49
1,4-Dioxane
Concen: 393.562 ug/l
RT: 9.07 min Scan# 777
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

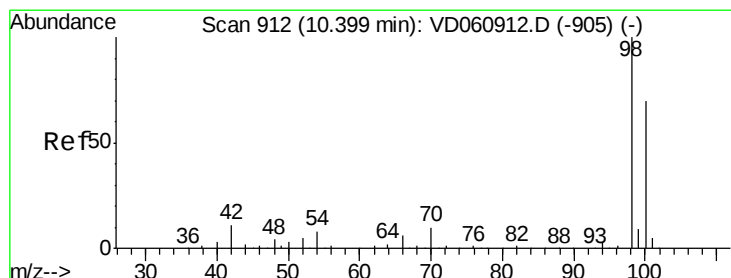
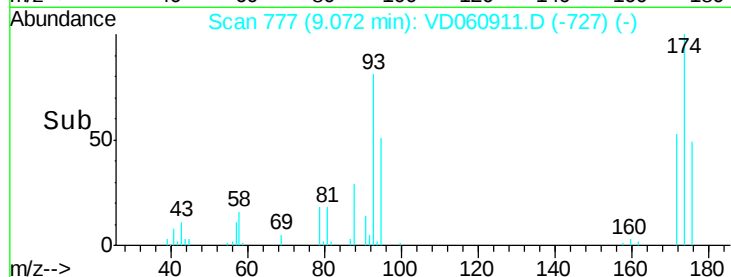
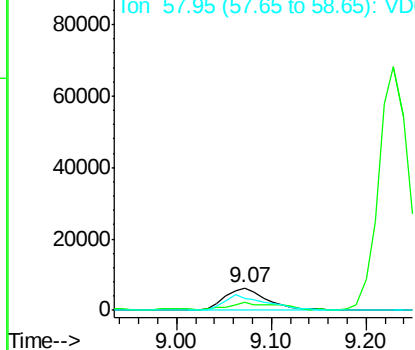
Tot Ion	Ratio	Lower	Upper
88	100		
43	36.1	20.3	30.5#
58	55.5	40.6	61.0

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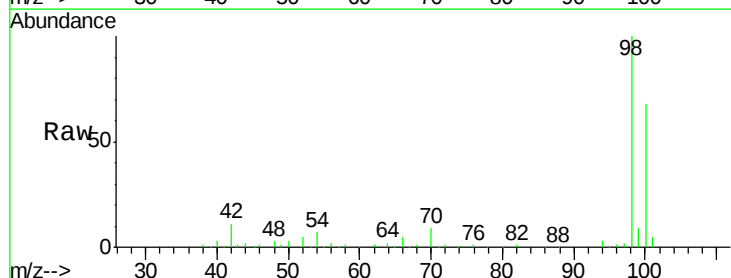


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

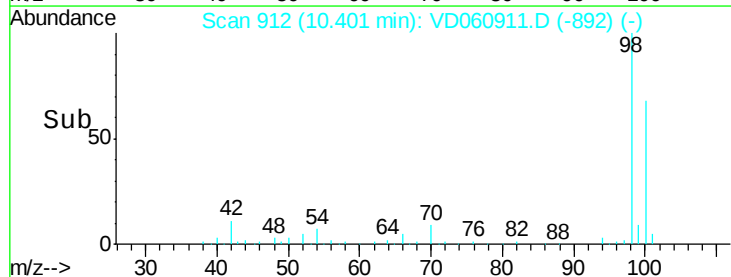
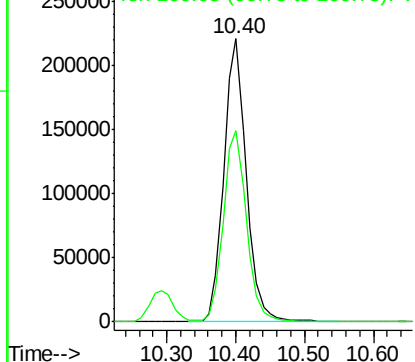


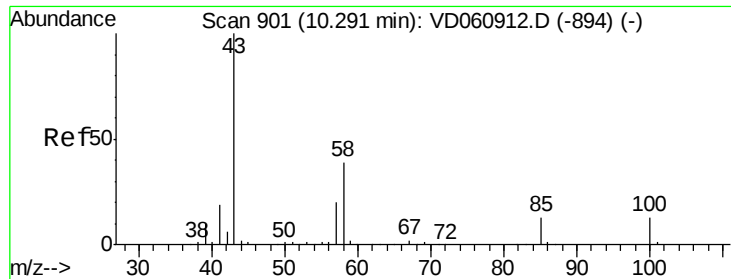
#50
Toluene-d8
Concen: 393.562 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.6	55.3	82.9



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 99.827 ug/l

RT: 10.29 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tot Ion: 43 Resp: 497541

Ion Ratio Lower Upper

43 100

58 38.3 26.8 40.2

Instrument :

MSVOA_D

ClientSampleId :

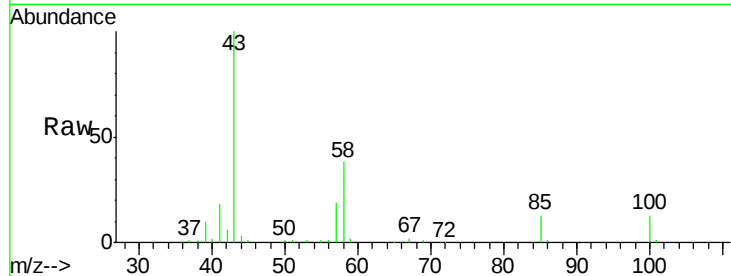
VSTDIC020

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

200000

150000

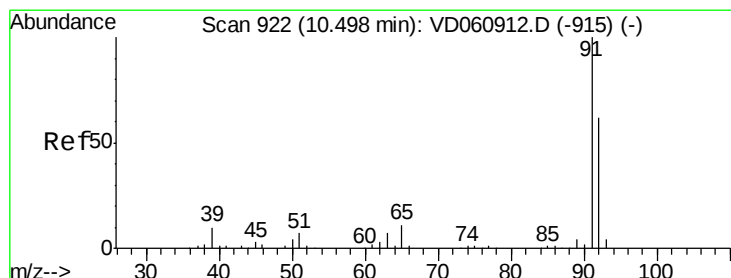
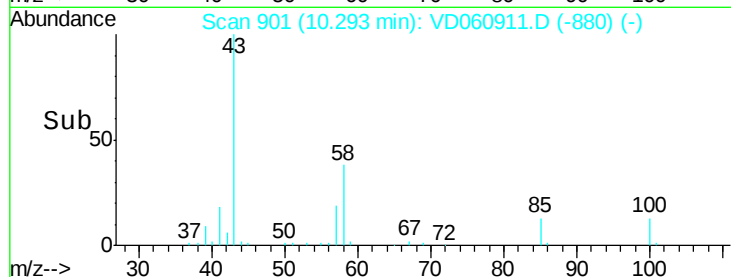
100000

50000

0

10.20 10.30 10.40

Time-->



#52

Toluene

Concen: 22.250 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD060911.D

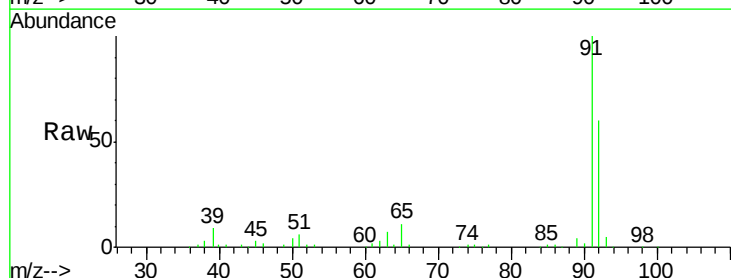
Acq: 1 Mar 2019 16:08

Tgt Ion: 92 Resp: 388567

Ion Ratio Lower Upper

92 100

91 165.5 132.1 198.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

300000

250000

200000

150000

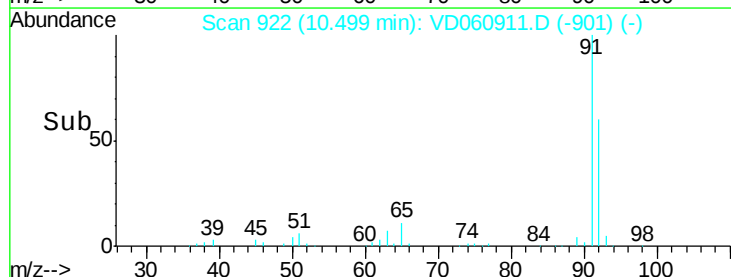
100000

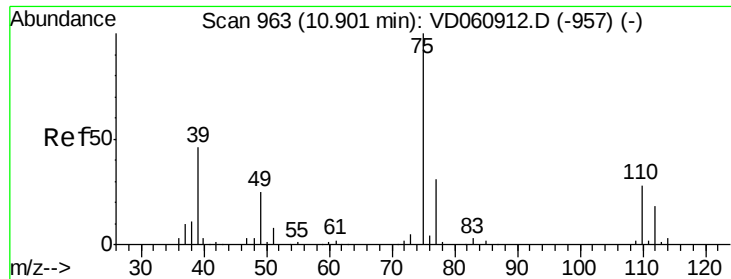
50000

0

10.40 10.50 10.60 10.70

Time-->





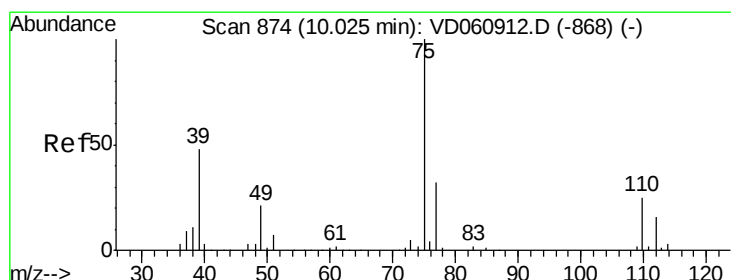
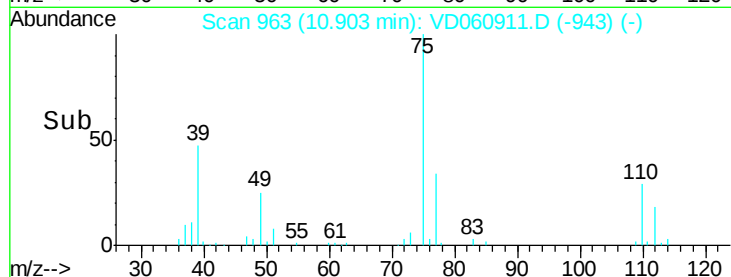
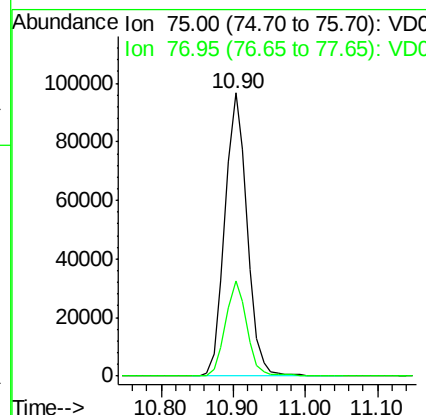
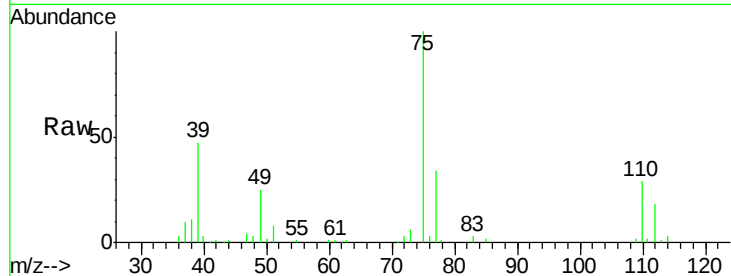
#53
t-1,3-Dichloropropene
Concen: 18.507 ug/l
RT: 10.90 min Scan# 963
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.6	25.4	38.2

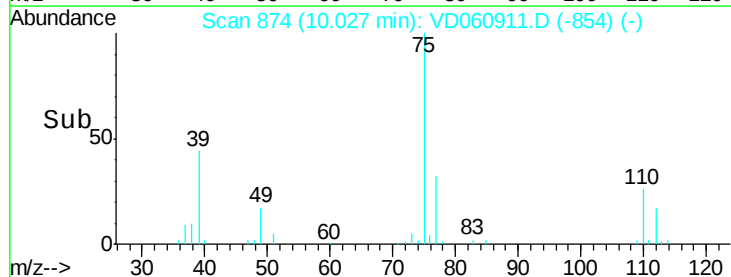
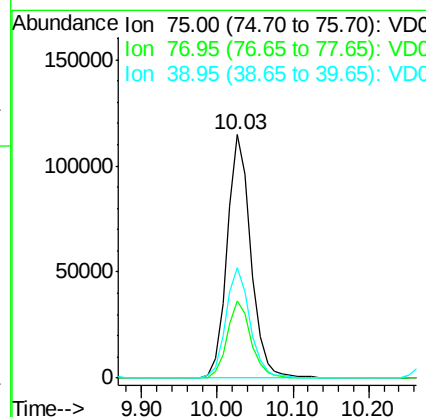
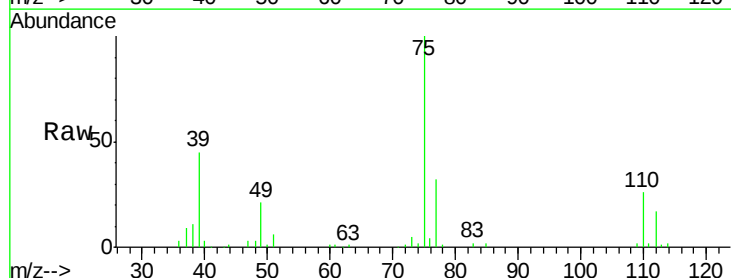
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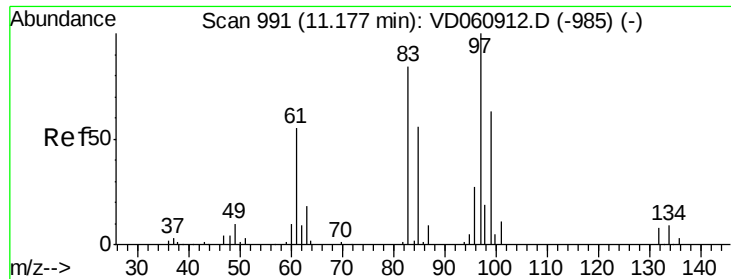
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#54
cis-1,3-Dichloropropene
Concen: 19.530 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.1	39.1
39	45.4	36.6	54.8





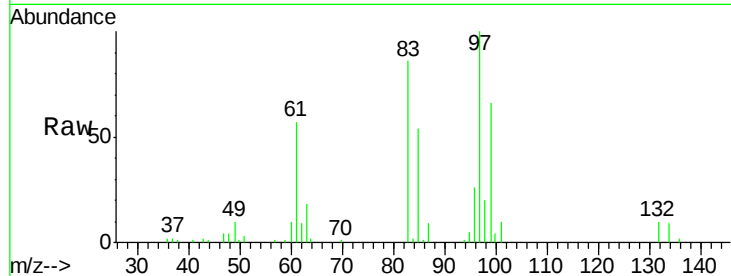
#55
1,1,2-Trichloroethane
Concen: 21.235 ug/l
RT: 11.18 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

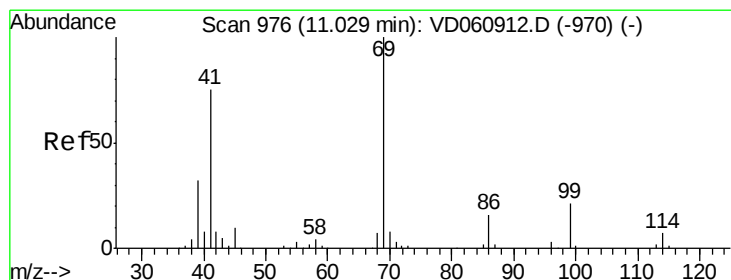
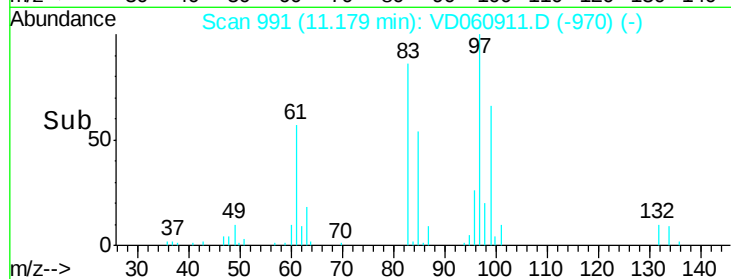
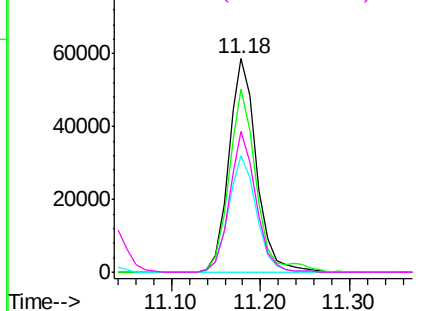
Tot Ion:	97	Resp:	127207
Ion	Ratio	Lower	Upper
97	100		
83	85.7	73.0	109.6
85	54.4	47.6	71.4
99	65.8	47.9	71.9

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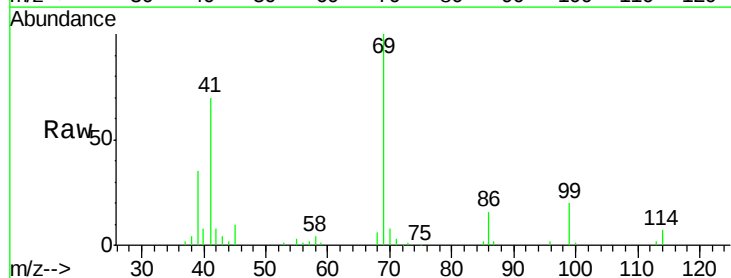


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

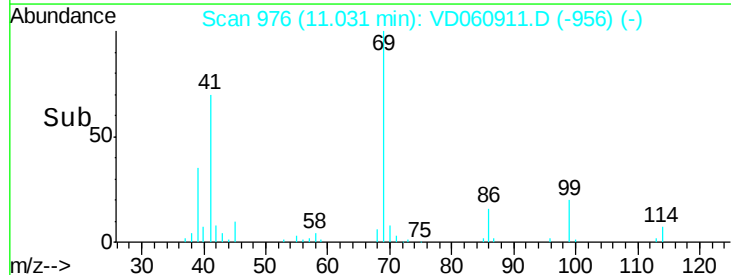
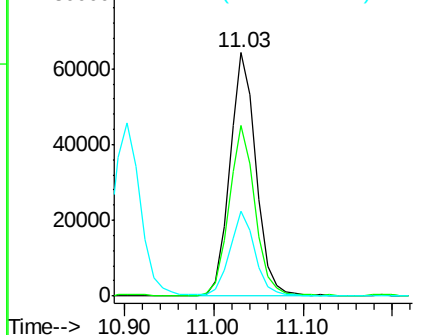


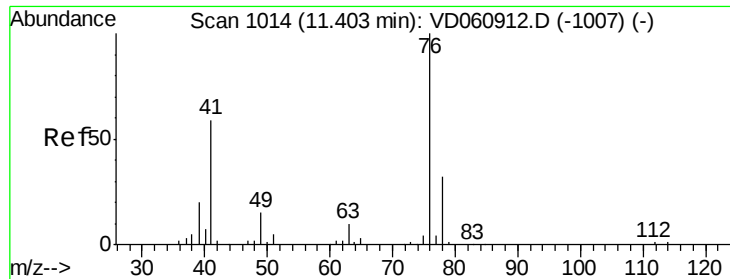
#56
Ethyl methacrylate
Concen: 19.423 ug/l
RT: 11.03 min Scan# 976
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion:	69	Resp:	132406
Ion	Ratio	Lower	Upper
69	100		
41	70.0	58.2	87.2
39	34.7	30.8	46.2



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC





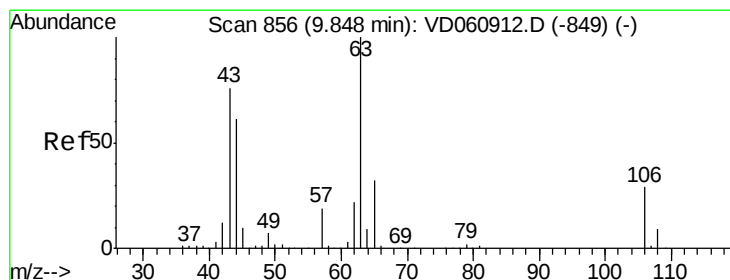
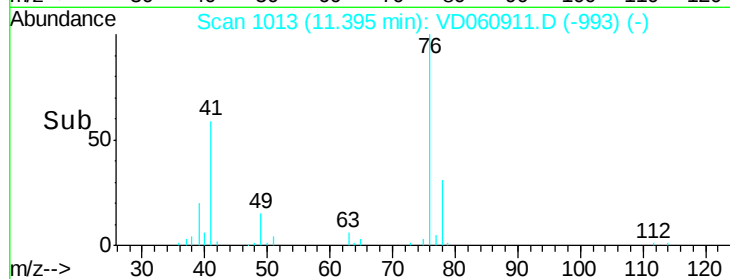
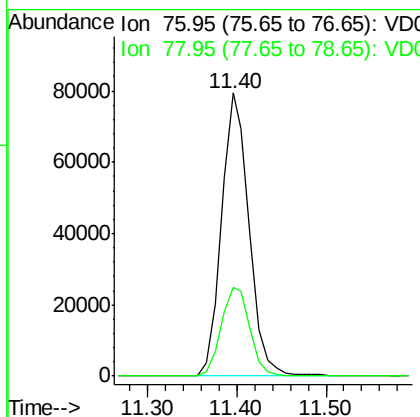
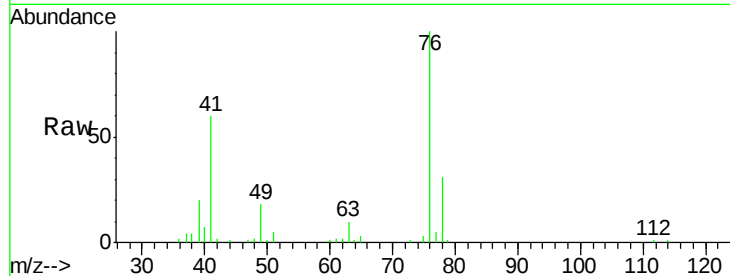
#57
 1,3-Dichloropropane
 Concen: 17.380 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 171466
 Ion Ratio Lower Upper
 76 100
 78 31.2 25.2 37.8

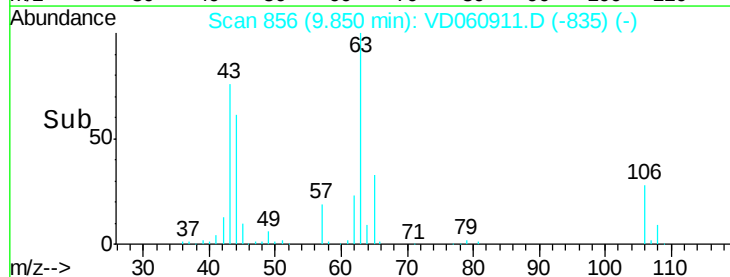
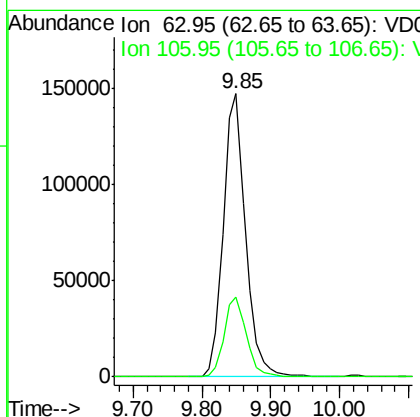
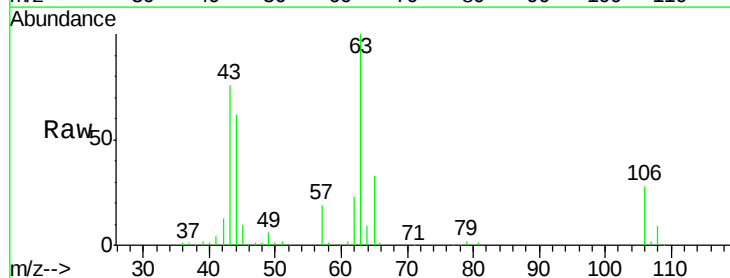
Manual Integrations
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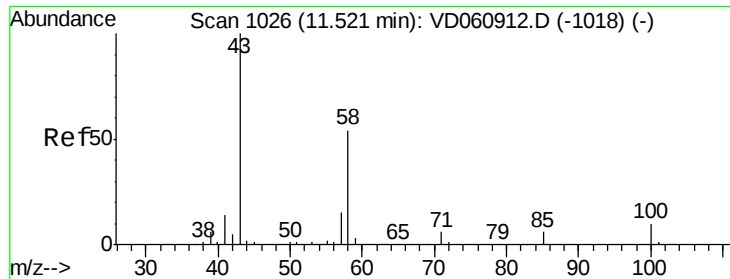
MMDadoda
 3/6/2019 5:33:05 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.654 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion: 63 Resp: 328746
 Ion Ratio Lower Upper
 63 100
 106 28.2 23.0 34.4





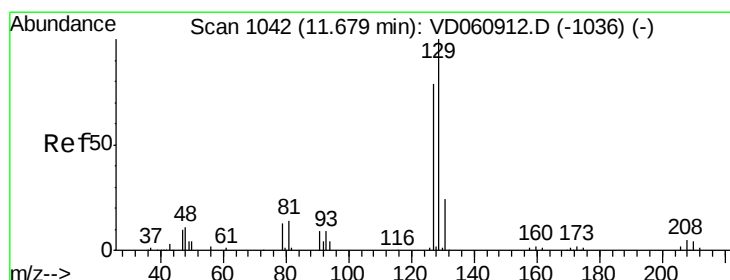
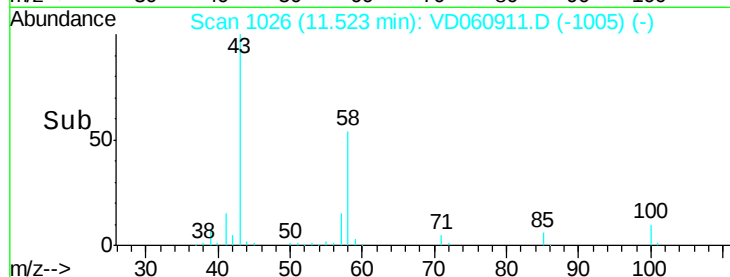
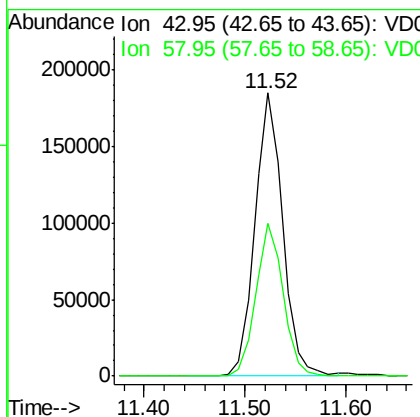
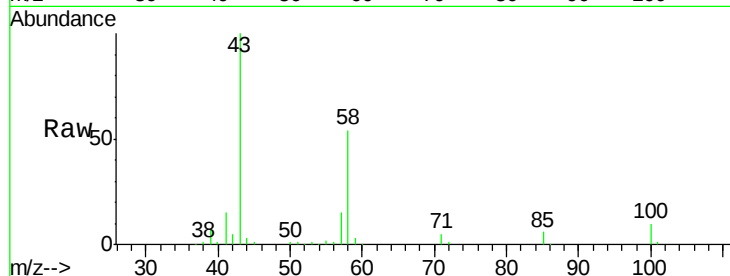
#59
2-Hexanone
Concen: 92.546 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 354125
Ion Ratio Lower Upper
43 100
58 53.9 25.4 76.2

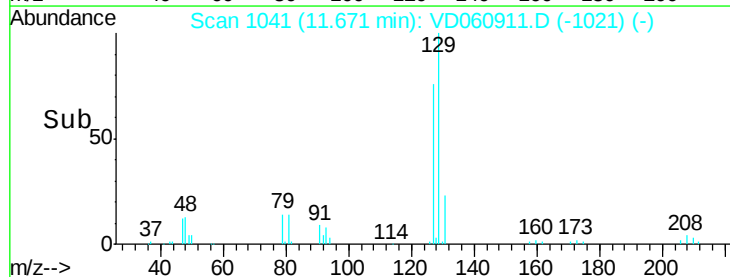
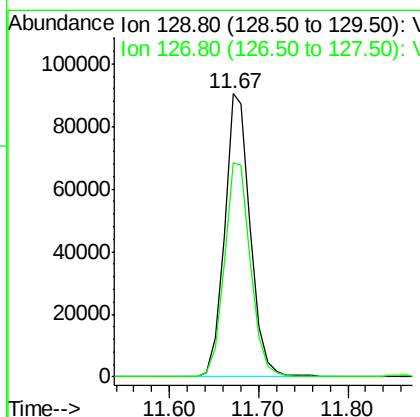
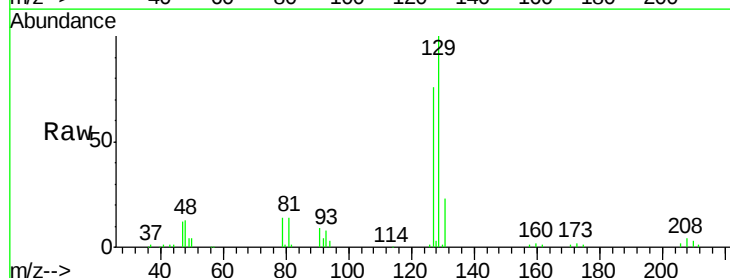
Manual Integrations
APPROVED

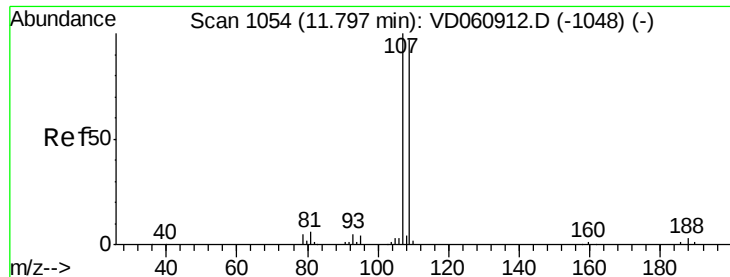
MMDadoda
3/6/2019 5:33:05 AM



#60
Dibromochloromethane
Concen: 21.250 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion: 129 Resp: 182917
Ion Ratio Lower Upper
129 100
127 75.8 38.5 115.3





#61

1,2-Dibromoethane

Concen: 21.821 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 147975

Ion Ratio Lower Upper

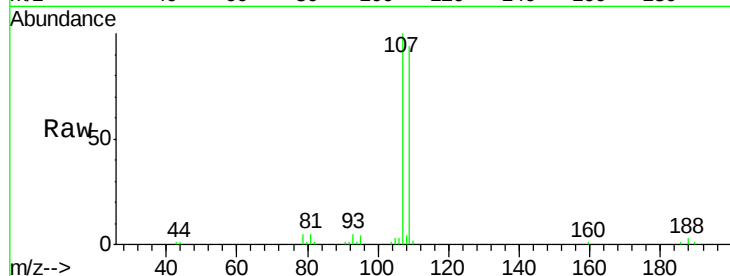
107 100

109 93.7 75.0 112.6

Manual Integrations
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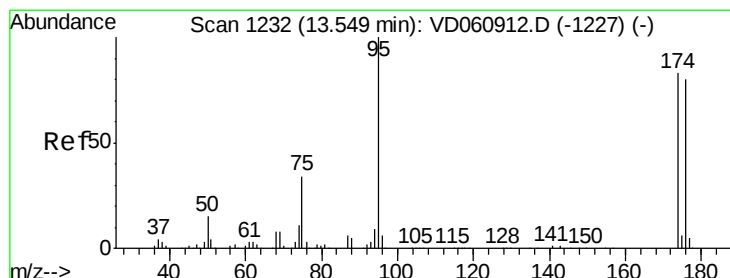
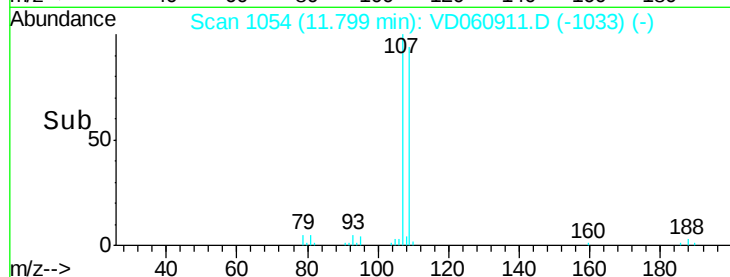
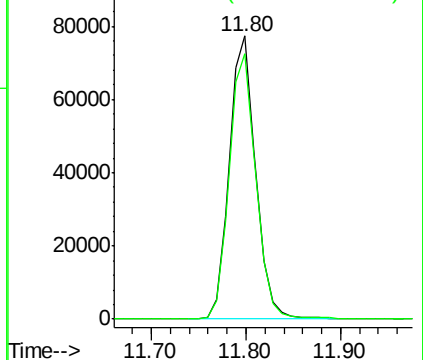
MMDadoda

3/6/2019 5:33:05 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 21.821 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

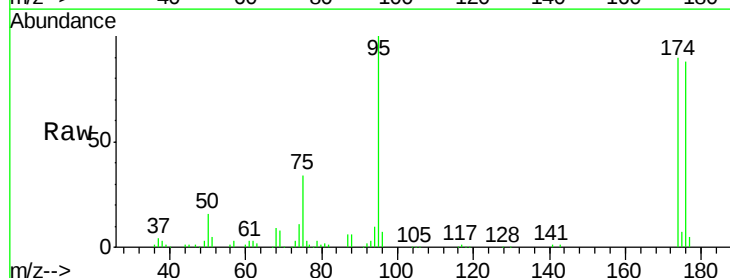
Tgt Ion: 95 Resp: 177471

Ion Ratio Lower Upper

95 100

174 89.8 0.0 207.2

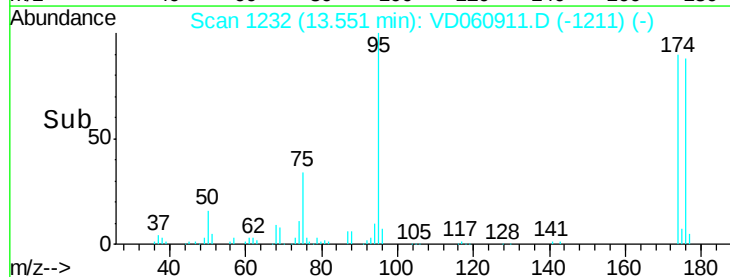
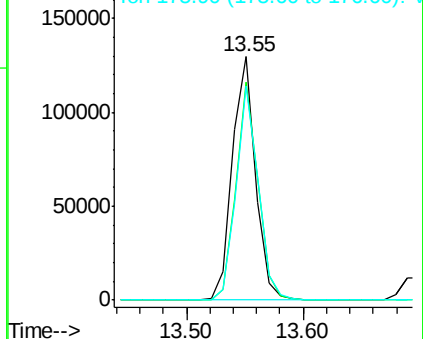
176 87.7 0.0 198.4

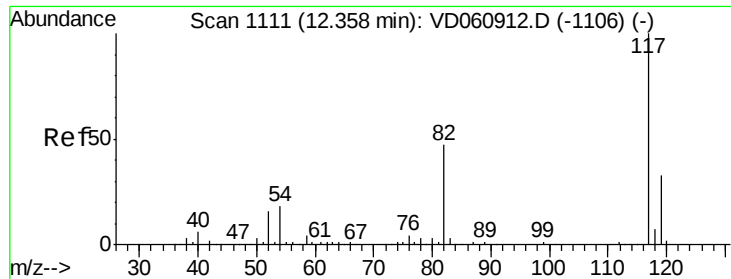


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





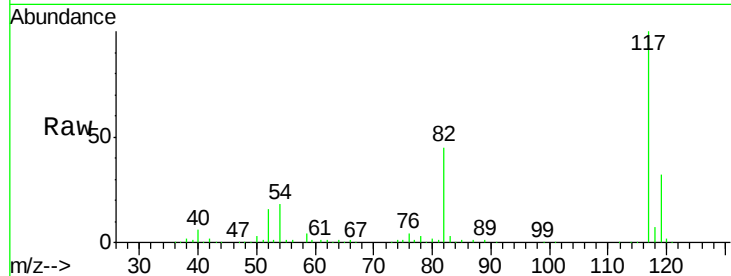
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

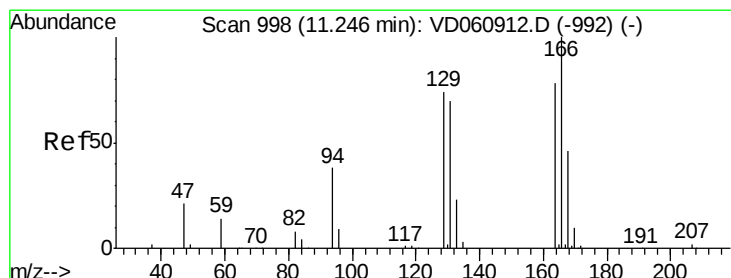
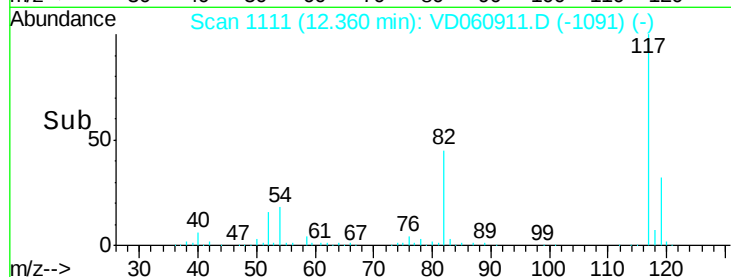
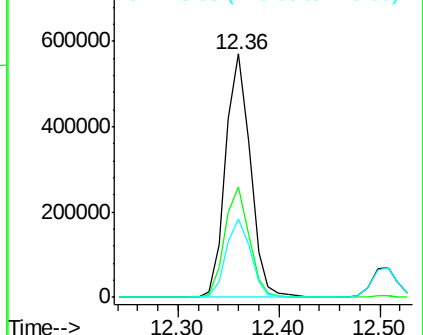
Tot Ion	Ratio	Lower	Upper
117	100		
82	45.1	45.5	68.3#
119	32.2	25.7	38.5

Manual Integrations
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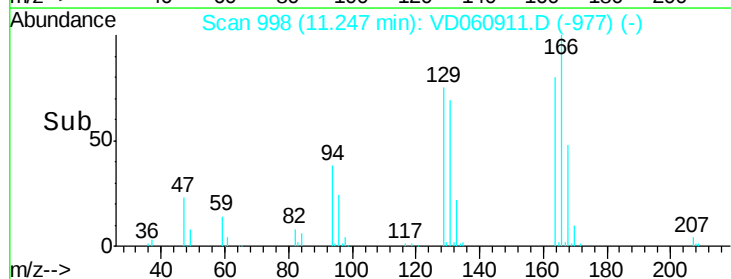
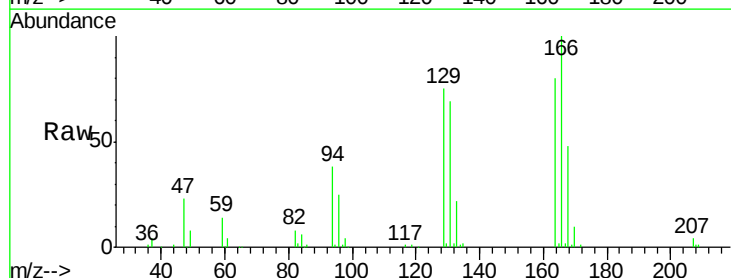
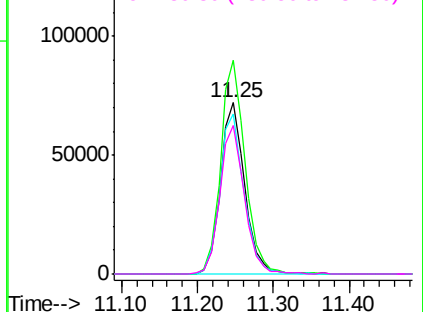
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

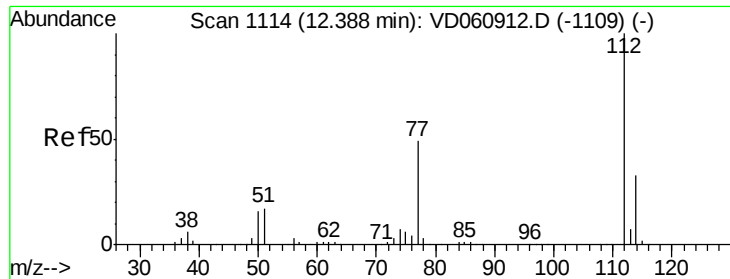


#64
Tetrachloroethene
Concen: 18.271 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.8	101.9	152.9
129	93.1	63.0	94.4
131	86.7	63.1	94.7

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





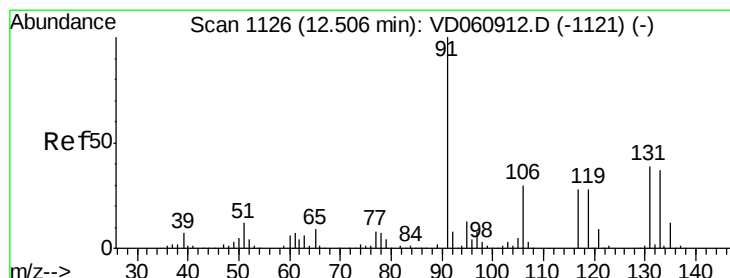
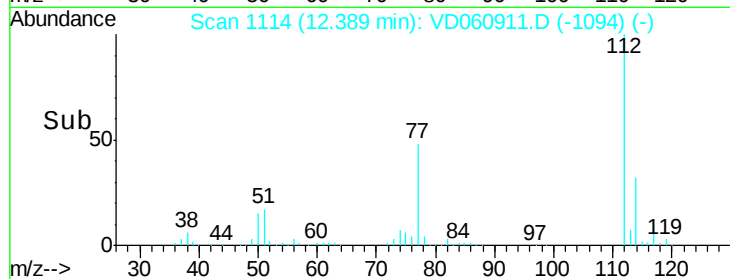
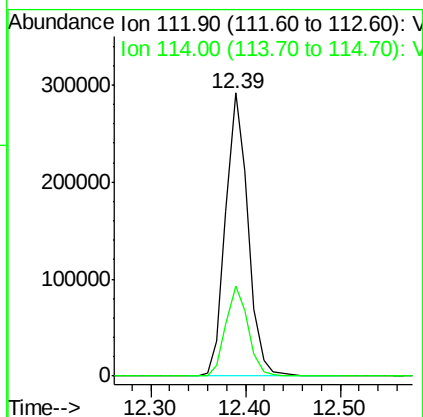
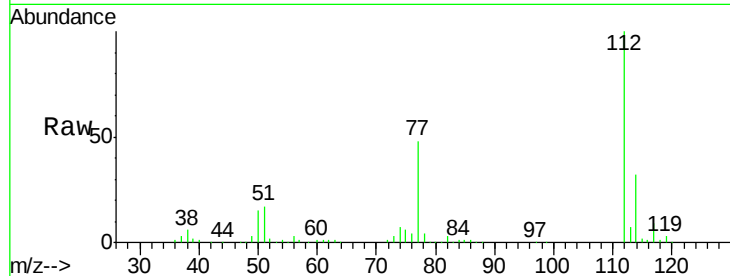
#65
Chlorobenzene
Concen: 24.199 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 476711
Ion Ratio Lower Upper
112 100
114 31.9 26.4 39.6

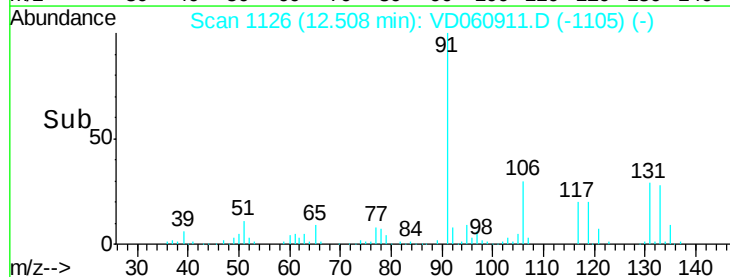
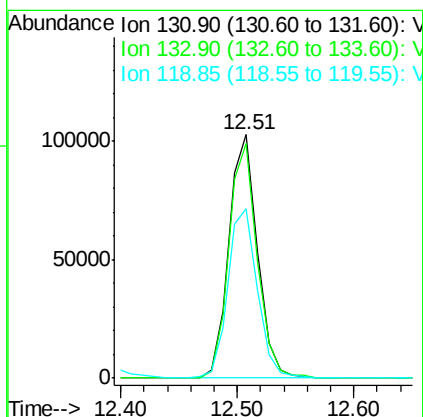
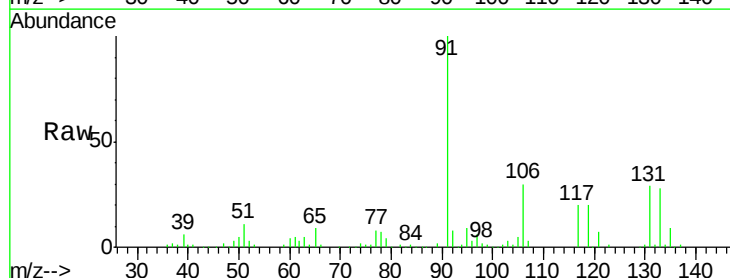
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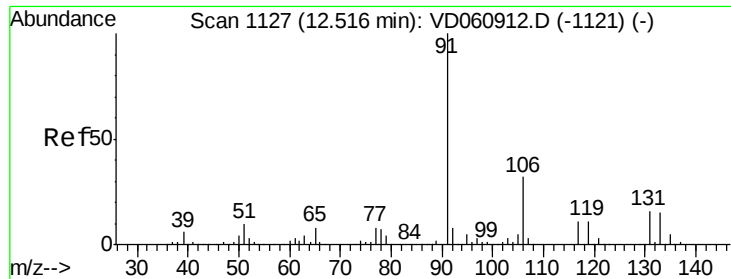
MMDadoda
3/6/2019 5:33:05 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.198 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion:131 Resp: 174015
Ion Ratio Lower Upper
131 100
133 96.2 48.5 145.6
119 69.5 32.8 98.3





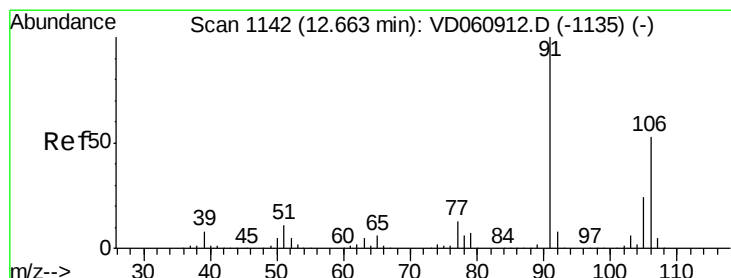
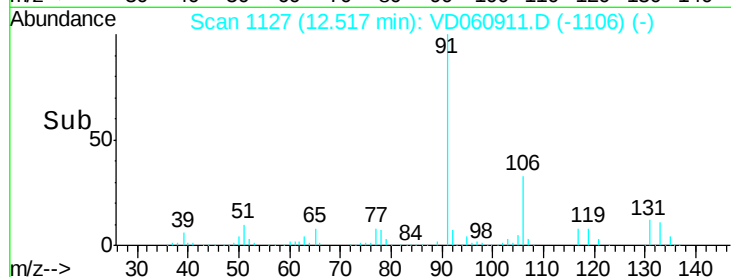
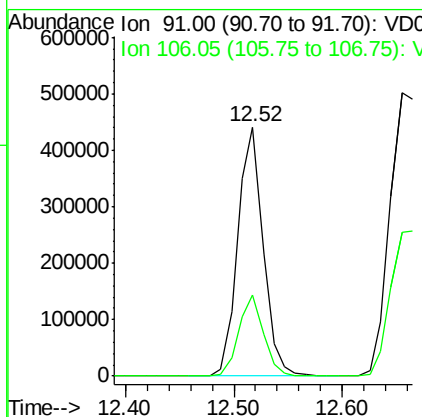
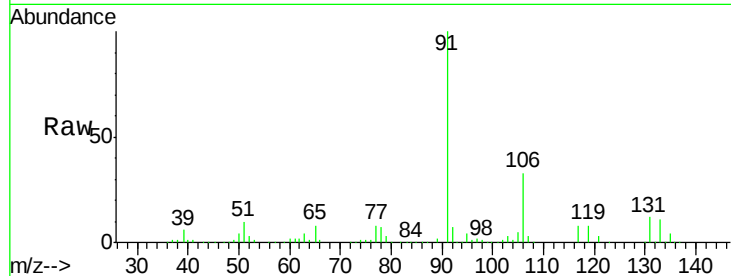
#67
Ethyl Benzene
Concen: 21.443 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 718978
Ion Ratio Lower Upper
91 100
106 32.6 22.2 33.2

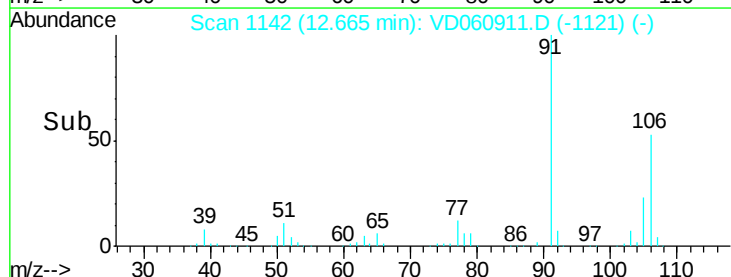
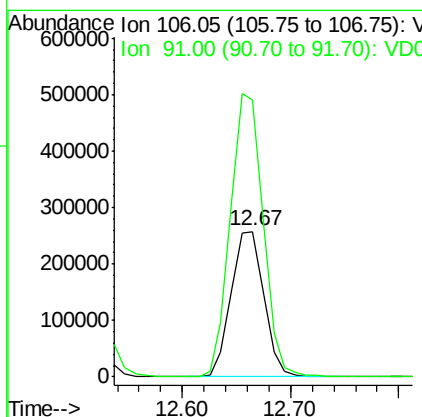
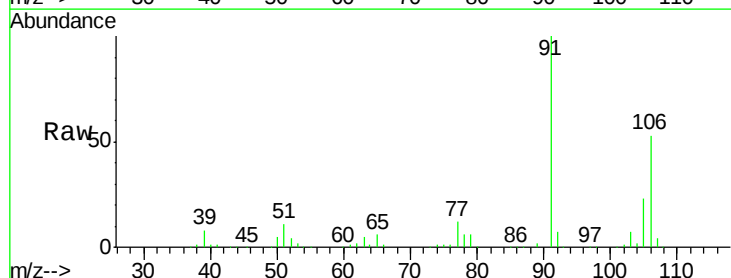
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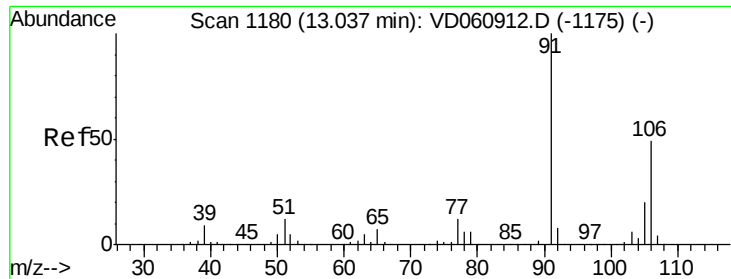
MMDadoda
3/6/2019 5:33:05 AM



#68
m/p-Xylenes
Concen: 45.972 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion: 106 Resp: 544823
Ion Ratio Lower Upper
106 100
91 190.4 174.2 261.2





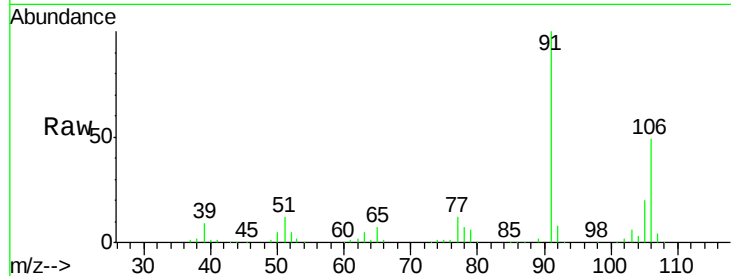
#69
o-Xylene
Concen: 23.098 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

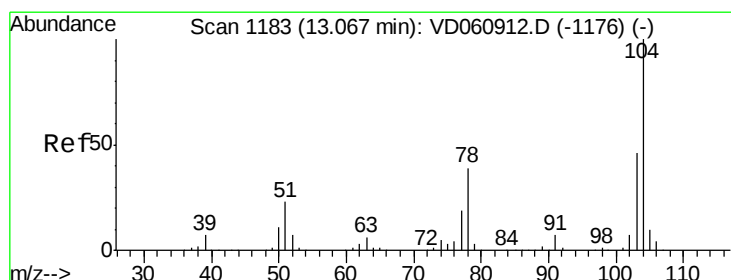
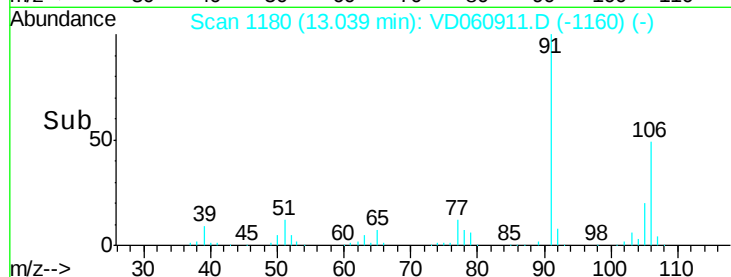
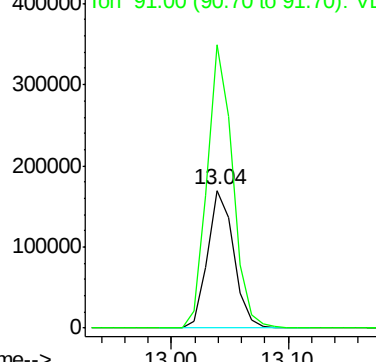
Tot Ion:106 Resp: 263643
Ion Ratio Lower Upper
106 100
91 205.0 116.9 350.7

Manual Integrations
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3/6/2019 5:33:05 AM

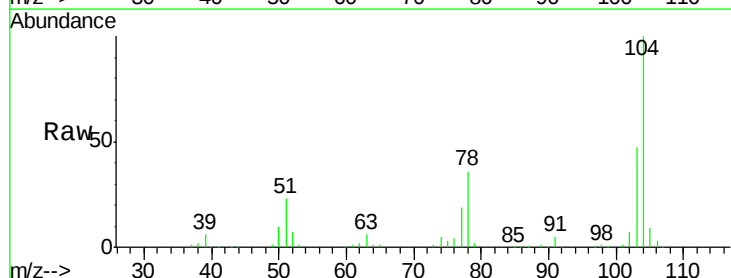


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

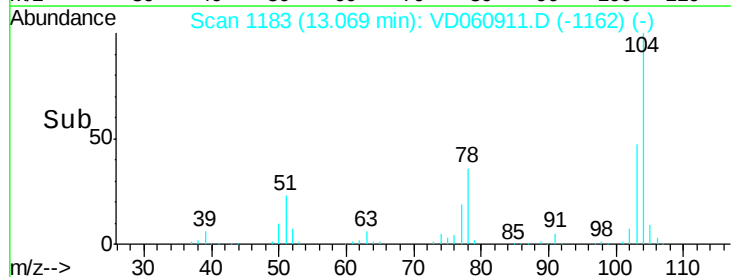
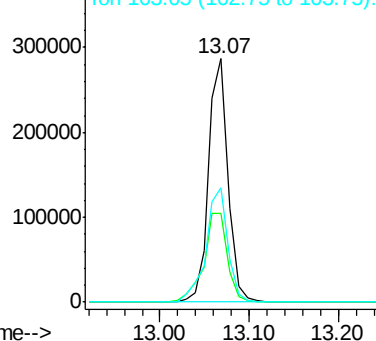


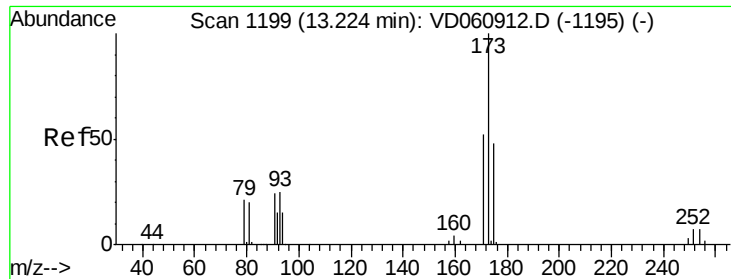
#70
Styrene
Concen: 22.868 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion:104 Resp: 438695
Ion Ratio Lower Upper
104 100
78 36.4 34.6 51.8
103 46.7 36.3 54.5



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





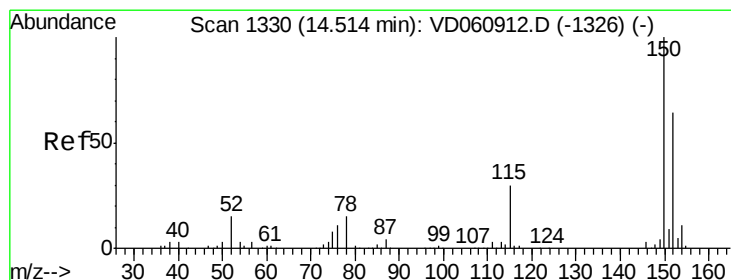
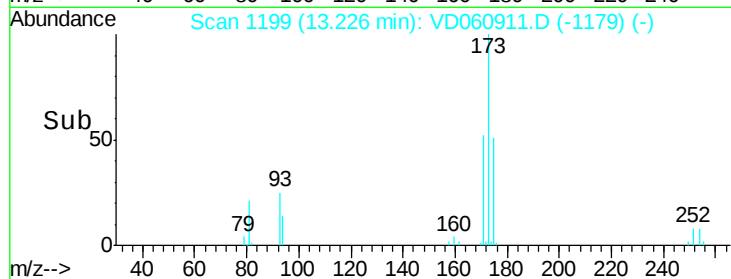
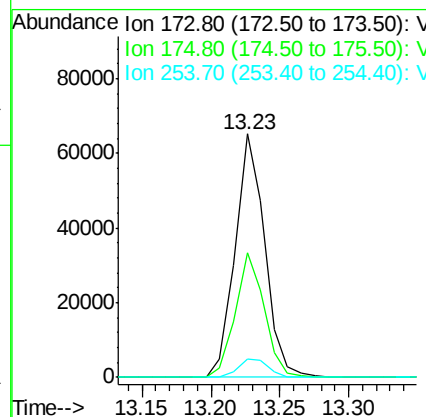
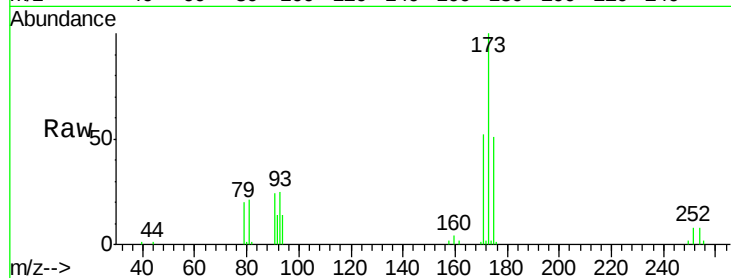
#71
Bromoform
Concen: 15.578 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.0	24.6	73.8
254	7.6	6.0	9.0

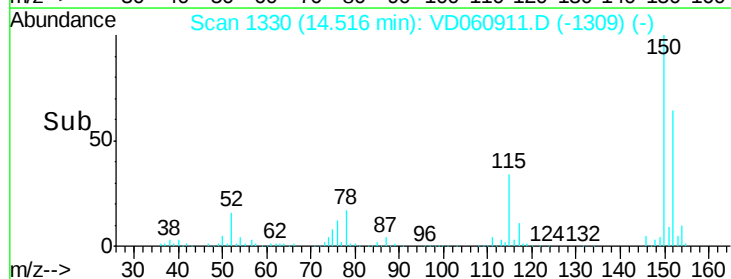
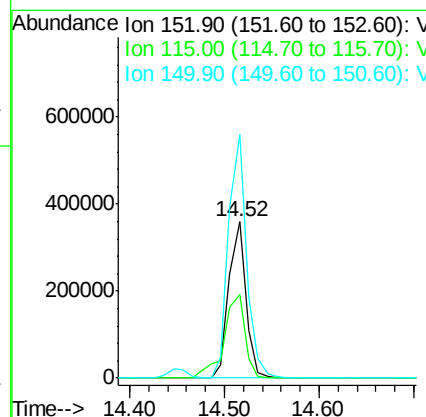
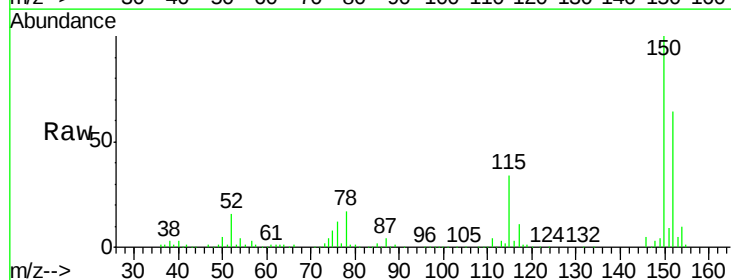
Manual Integrations
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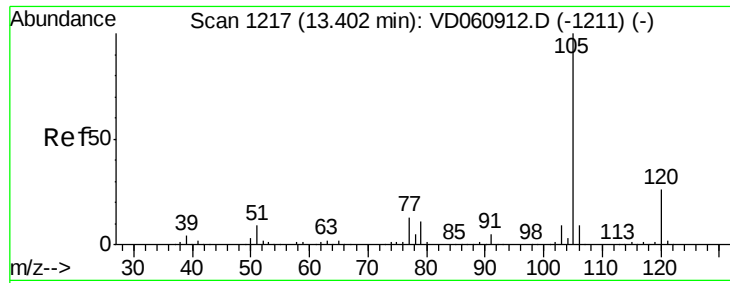
MMDadoda
3/6/2019 5:33:05 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.6	24.4	73.2
150	156.0	0.0	311.0





#73

Isopropylbenzene

Concen: 28.358 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 743599

Ion Ratio Lower Upper

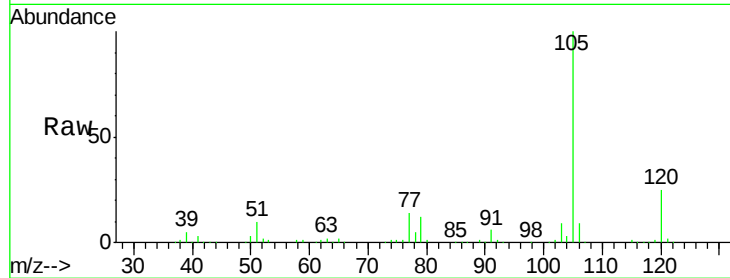
105 100

120 25.0 12.2 36.6

Manual Integrations
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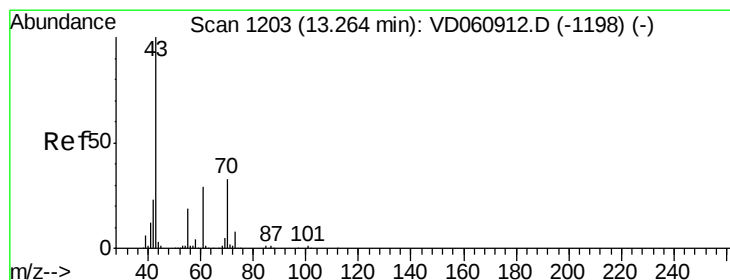
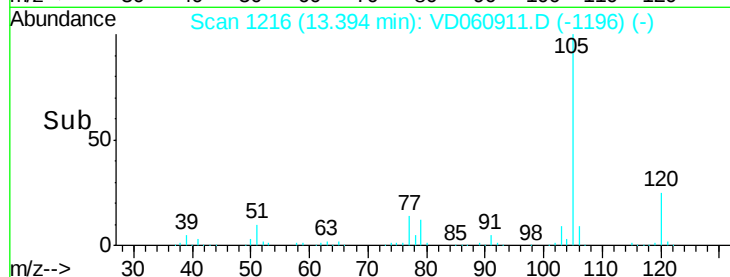
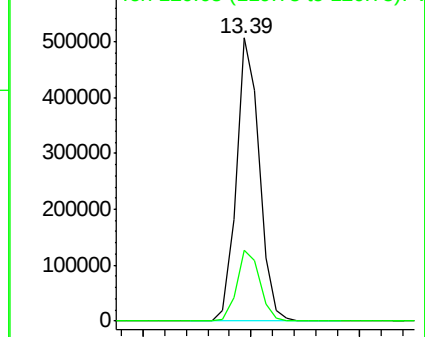
MMDadoda

3/6/2019 5:33:05 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.996 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion: 43 Resp: 199338

Ion Ratio Lower Upper

43 100

70 29.4 26.8 40.2

55 19.4 14.2 21.4

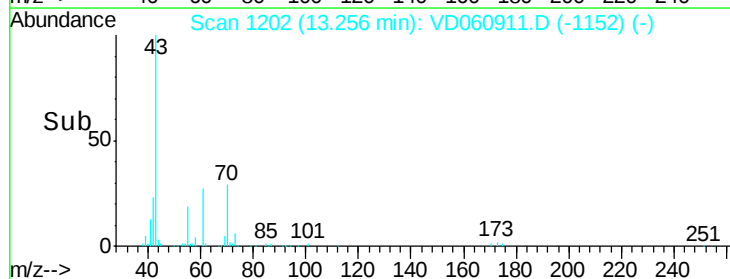
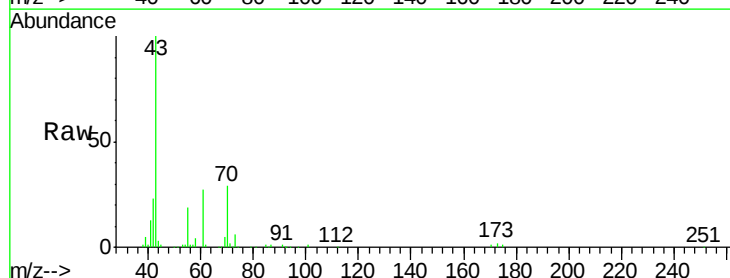
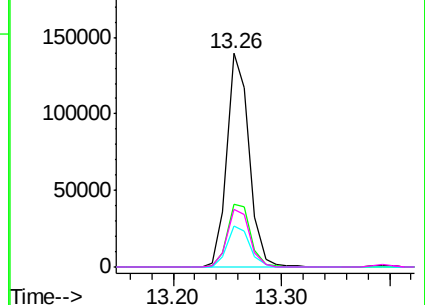
61 27.0 20.6 31.0

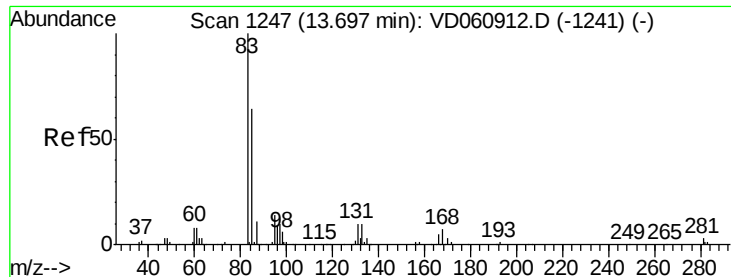
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 22.517 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

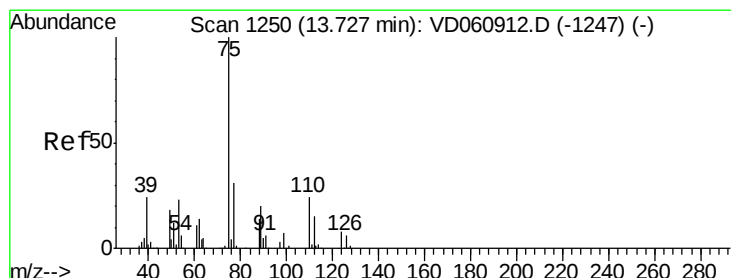
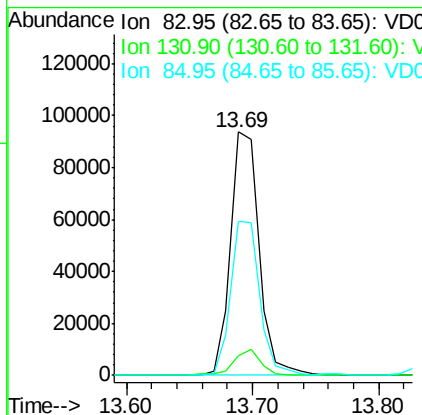
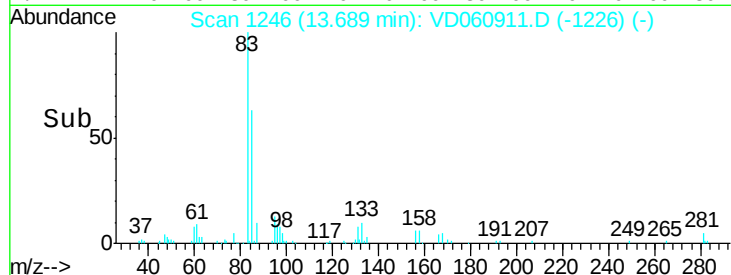
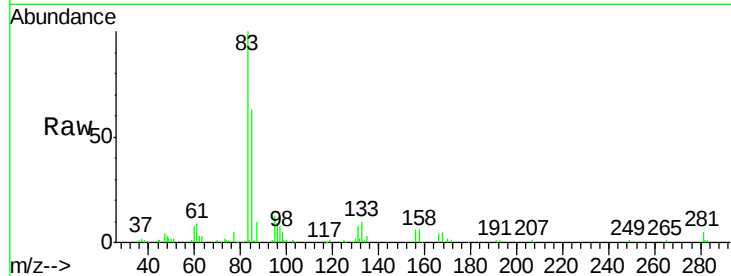
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	145416
Ion Ratio	Lower	Upper	
83	100		
131	8.2	4.9	14.6
85	63.3	31.9	95.9

Manual Integrations
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3/6/2019 5:33:05 AM



#76

1,2,3-Trichloropropane

Concen: 22.365 ug/l

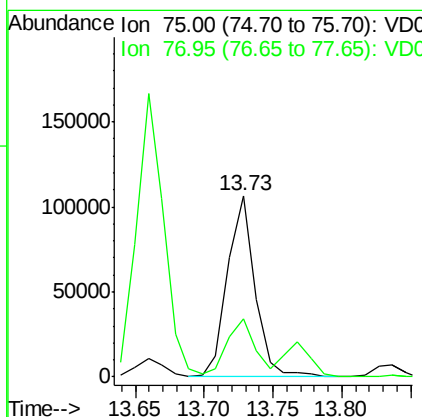
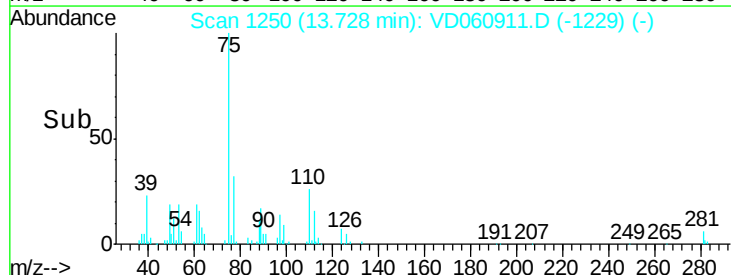
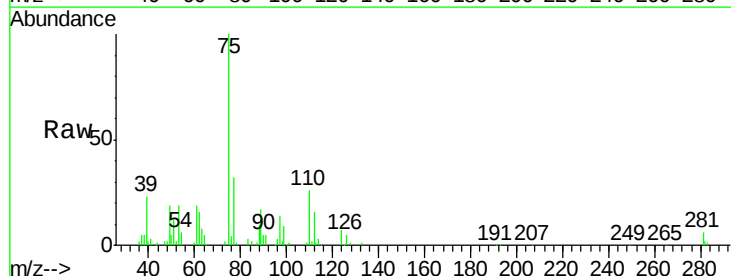
RT: 13.73 min Scan# 1250

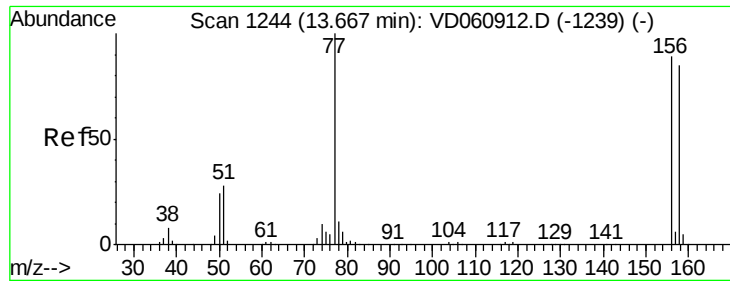
Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	75	Resp:	149130
Ion Ratio	Lower	Upper	
75	100		
77	32.2	16.3	48.8





#77

Bromobenzene

Concen: 21.607 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

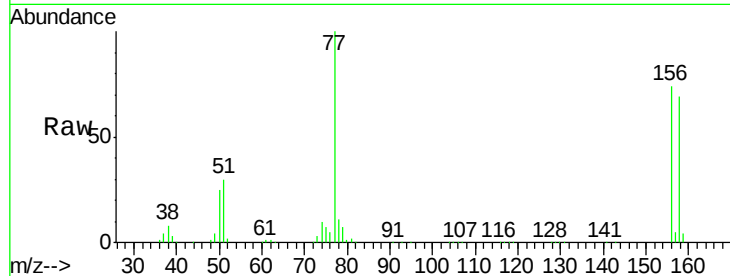
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		182342		
77	135.9	67.4	202.2		
158	94.3	49.2	147.6		

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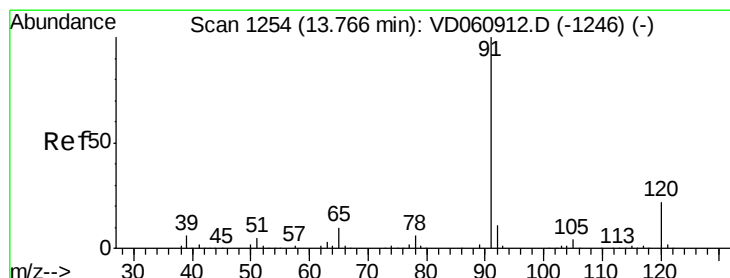
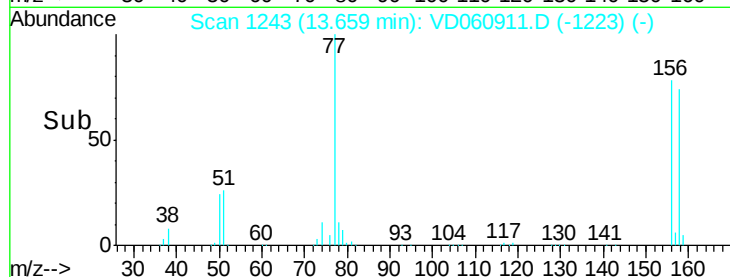
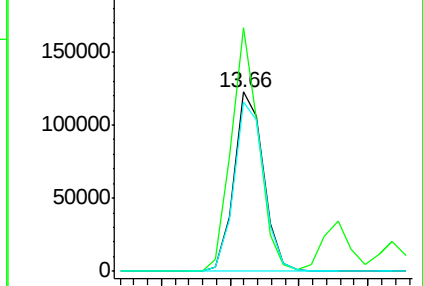
MMDadoda
3/6/2019 5:33:05 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 22.466 ug/l

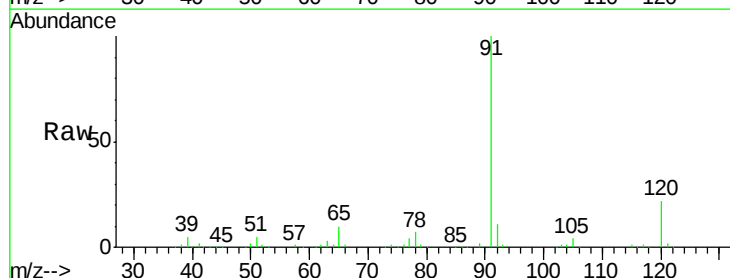
RT: 13.77 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD060911.D

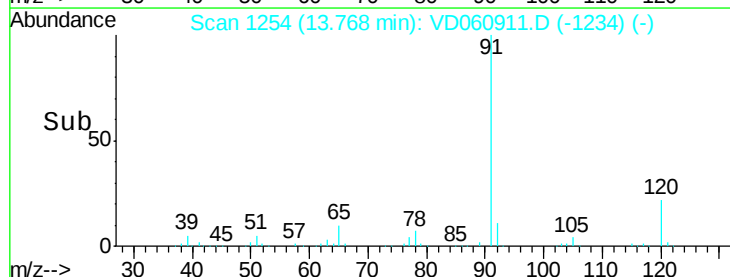
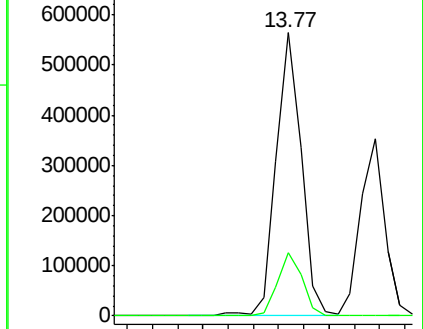
Acq: 1 Mar 2019 16:08

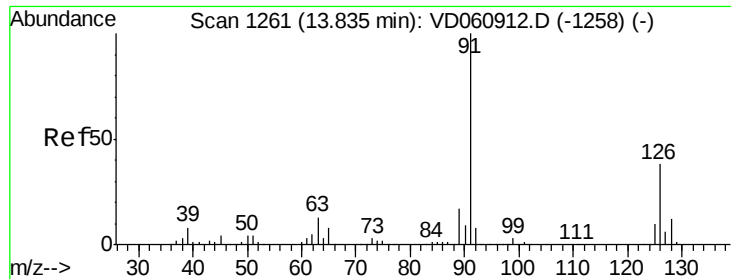
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		786045		
120	22.2	10.1	30.3		



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 23.380 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 467857

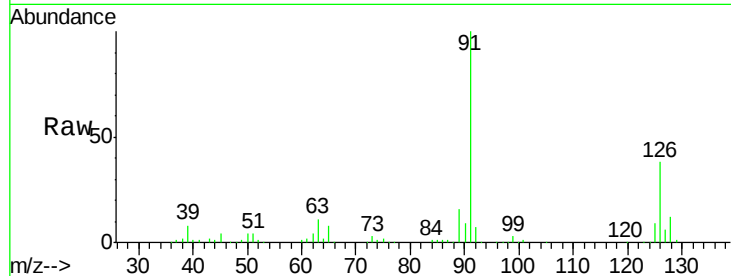
Ion Ratio Lower Upper

91 100

126 38.0 17.4 52.2

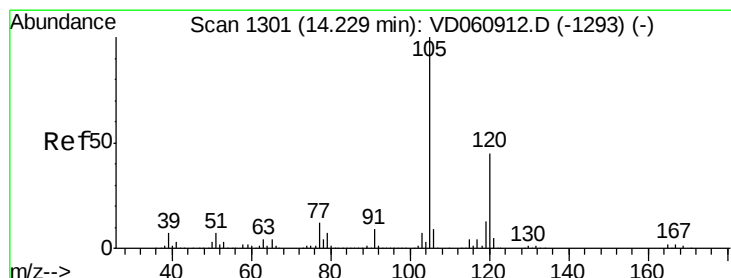
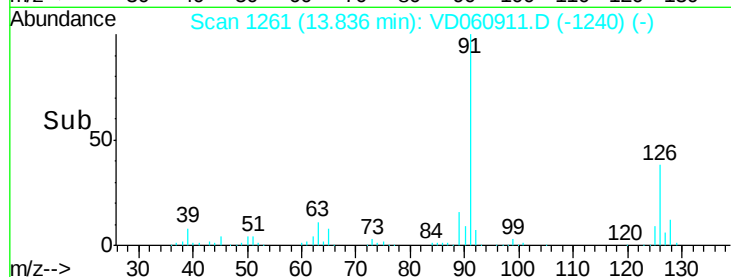
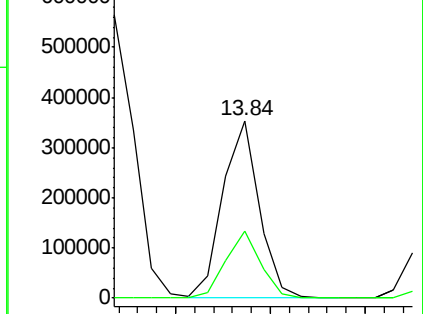
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 25.349 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD060911.D

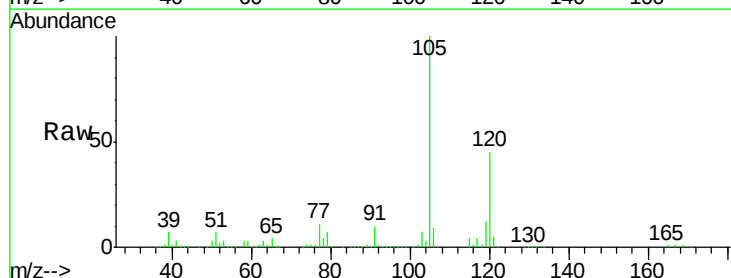
Acq: 1 Mar 2019 16:08

Tgt Ion: 105 Resp: 546270

Ion Ratio Lower Upper

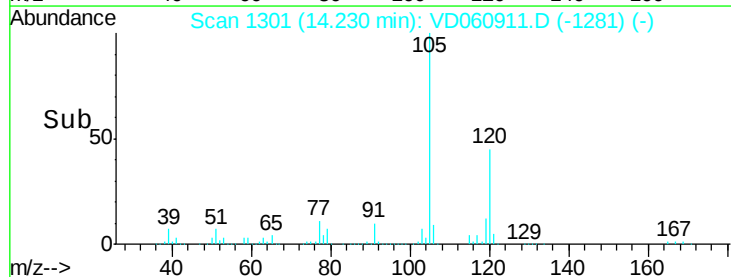
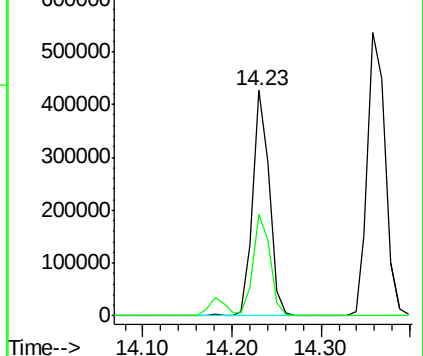
105 100

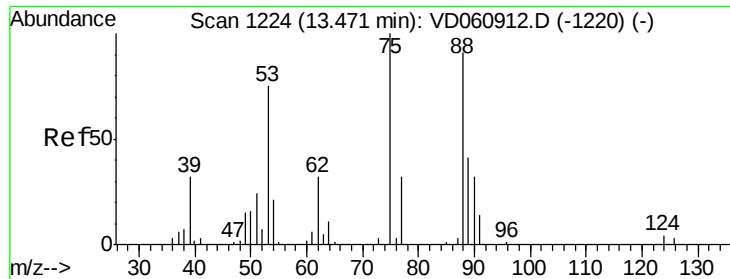
120 44.8 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





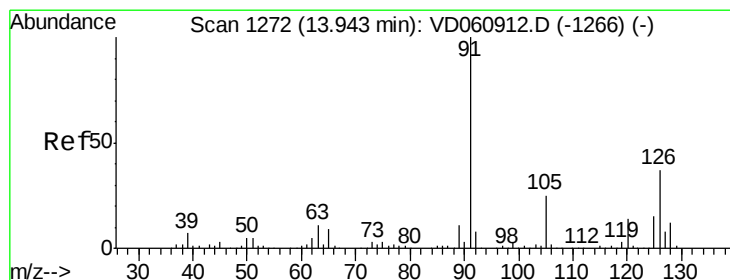
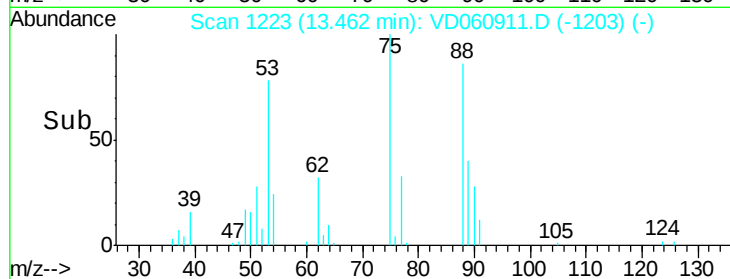
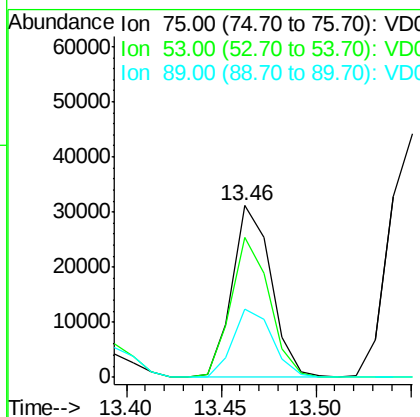
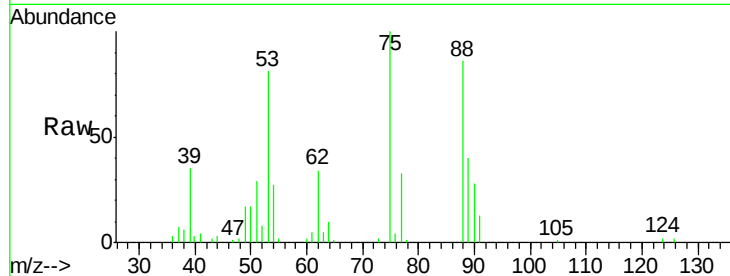
#81
trans-1,4-Dichloro-2-butene
Concen: 20.879 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	81.3	60.2	90.4
89	39.6	32.6	49.0

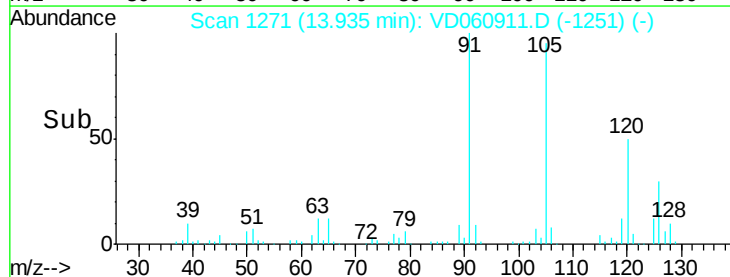
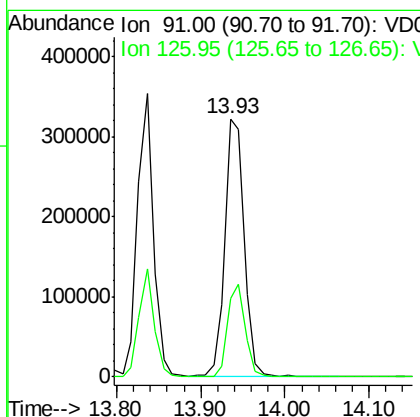
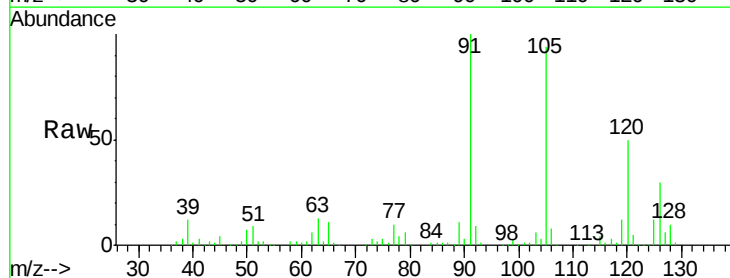
Manual Integrations
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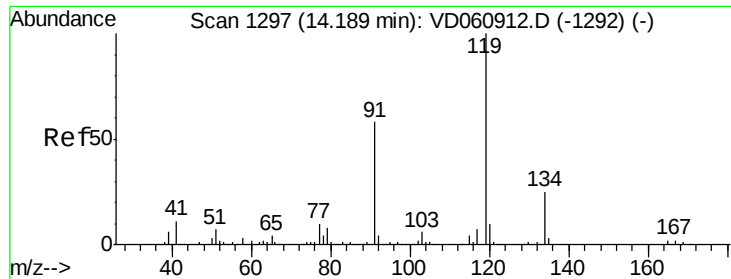
MMDadoda
3/6/2019 5:33:05 AM



#82
4-Chlorotoluene
Concen: 23.186 ug/l
RT: 13.93 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.3	16.9	50.7





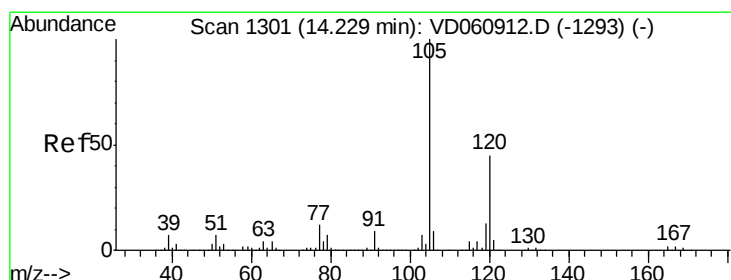
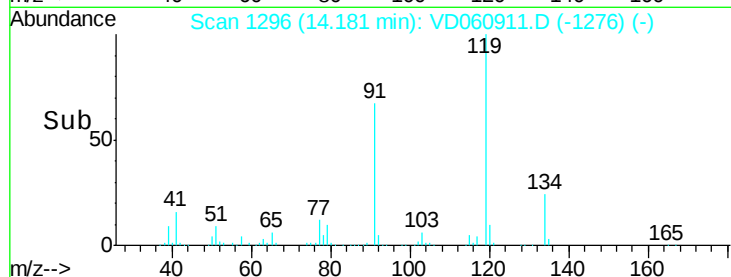
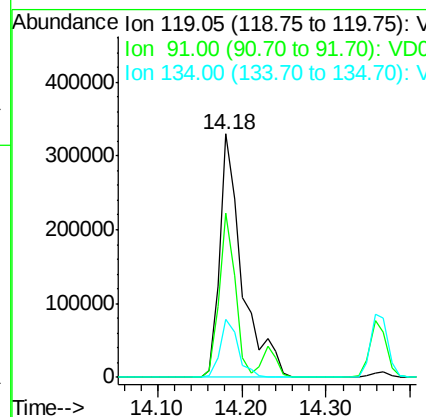
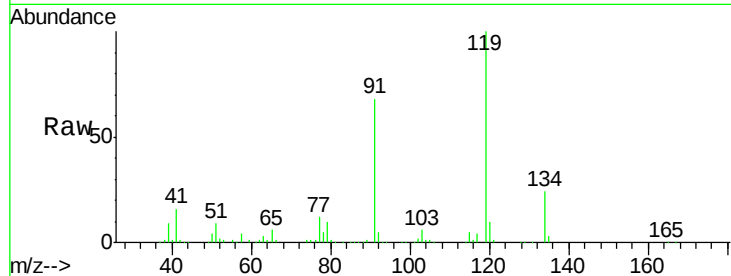
#83
 tert-Butylbenzene
 Concen: 24.589 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	611915		
91	67.5	34.2	102.5	
134	24.0	12.9	38.7	

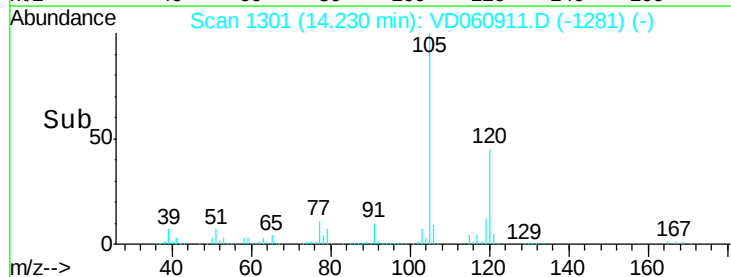
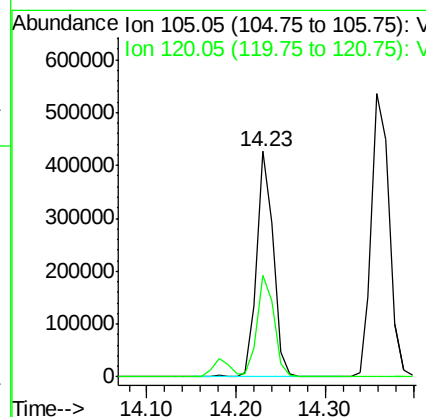
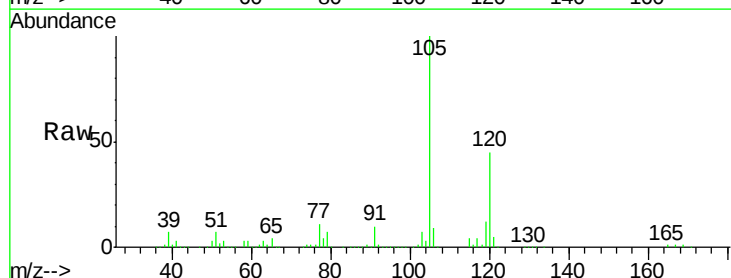
Manual Integrations
 APPROVED

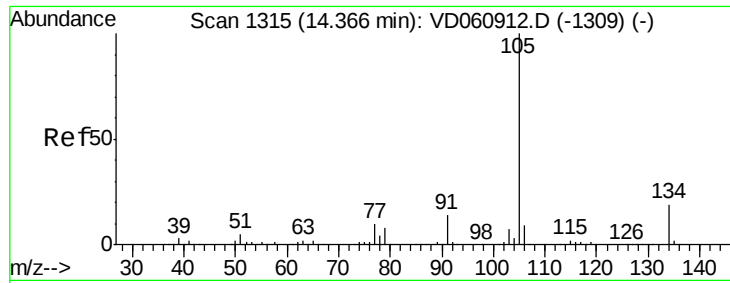
MMDadoda
 3/6/2019 5:33:05 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 25.349 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	546270		
120	44.8	22.8	68.4	





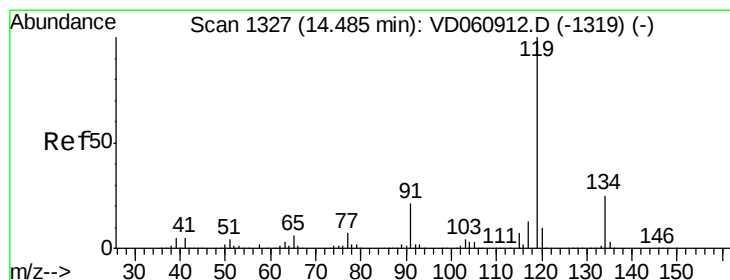
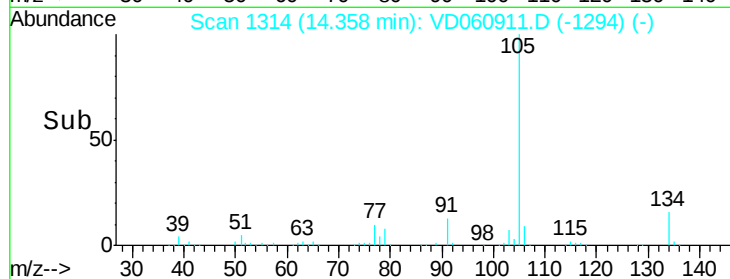
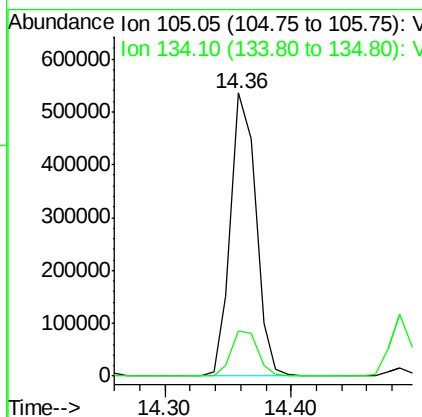
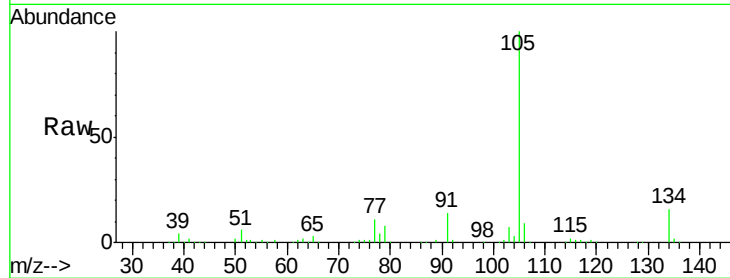
#85
 sec-Butylbenzene
 Concen: 26.784 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Tot Ion:105 Resp: 744140
 Ion Ratio Lower Upper
 105 100
 134 16.0 10.1 30.3

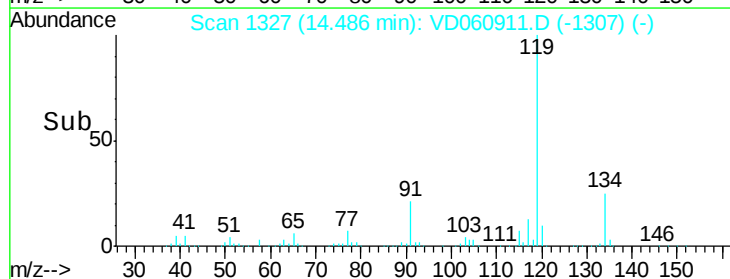
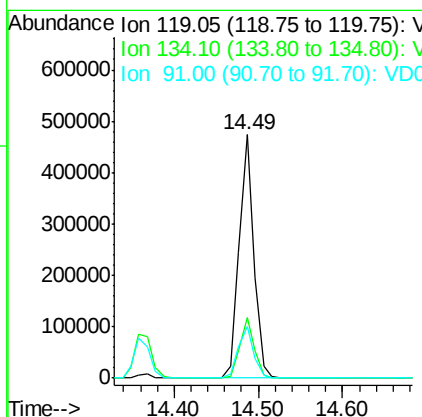
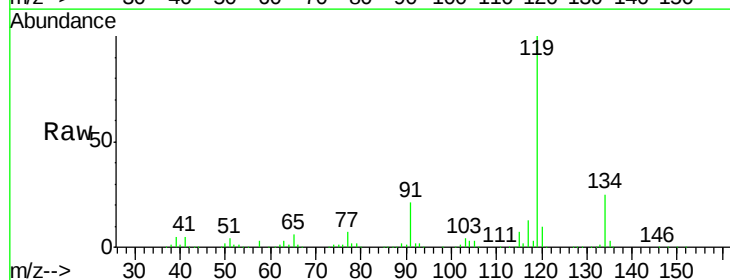
Manual Integrations
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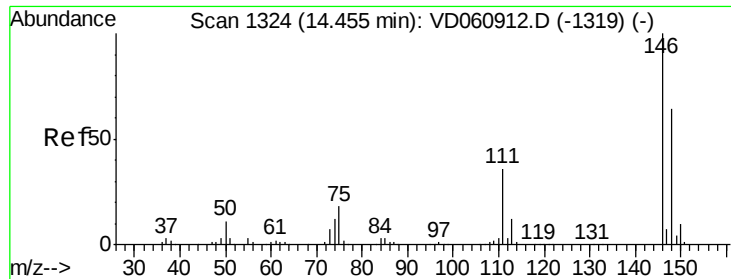
MMDadoda
 3/6/2019 5:33:05 AM



#86
 p-Isopropyltoluene
 Concen: 24.662 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion:119 Resp: 575385
 Ion Ratio Lower Upper
 119 100
 134 24.7 12.9 38.7
 91 21.1 12.6 37.8





#87

1,3-Dichlorobenzene

Concen: 19.937 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

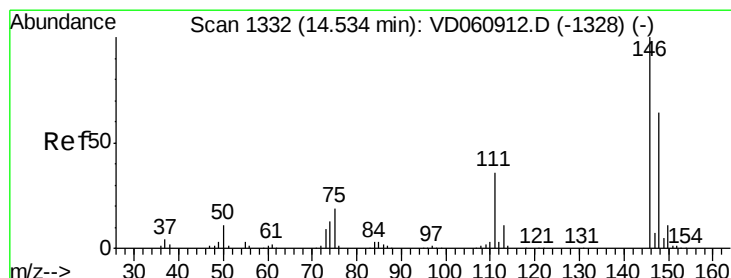
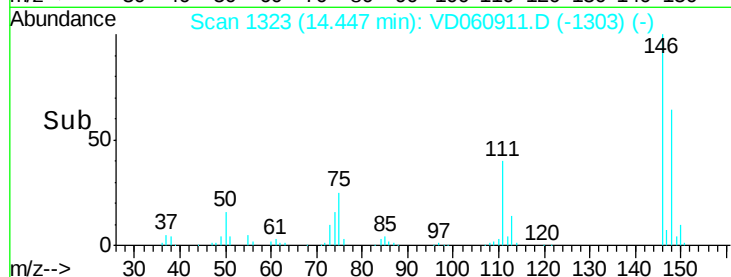
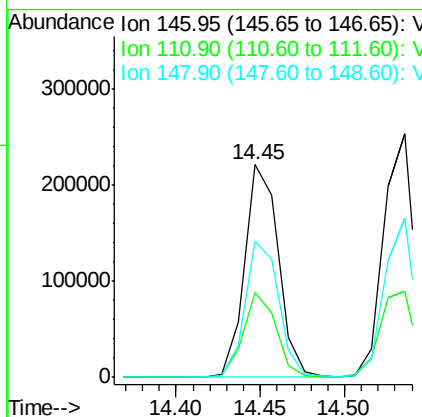
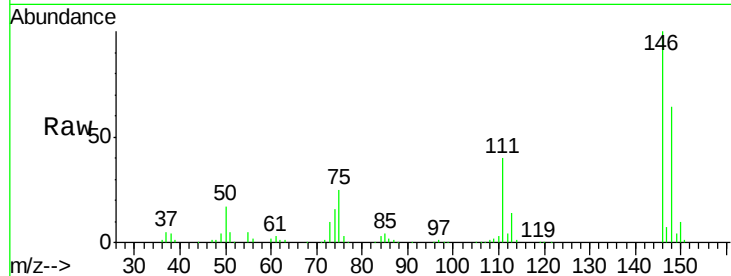
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	307727
Ion Ratio	Lower	Upper	
146	100		
111	40.1	15.9	47.6
148	64.0	32.4	97.0

Manual Integrations
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3/6/2019 5:33:05 AM



#88

1,4-Dichlorobenzene

Concen: 21.982 ug/l

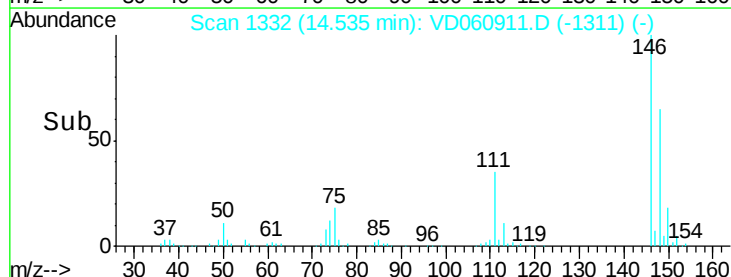
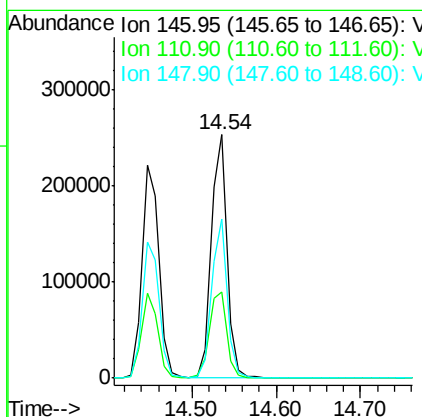
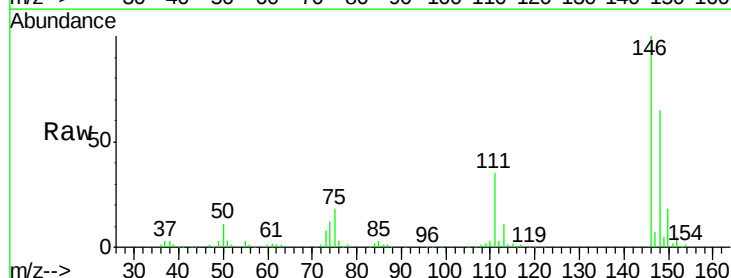
RT: 14.54 min Scan# 1332

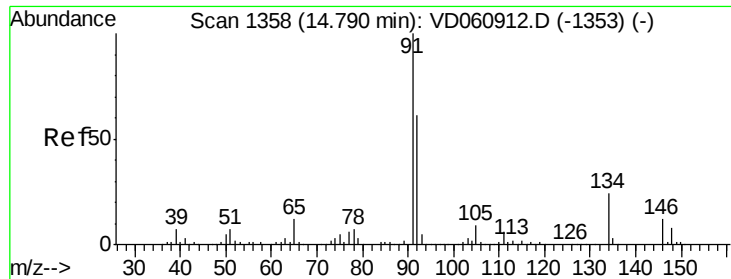
Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	146	Resp:	327674
Ion Ratio	Lower	Upper	
146	100		
111	35.2	15.9	47.7
148	65.3	32.6	97.8





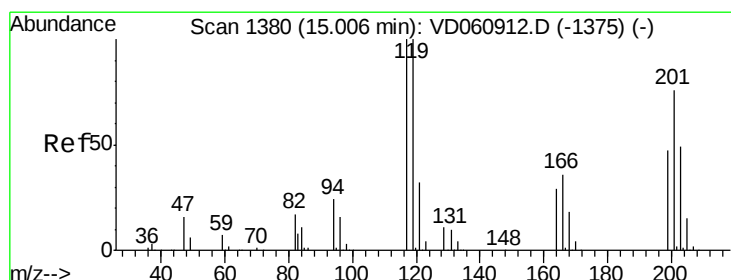
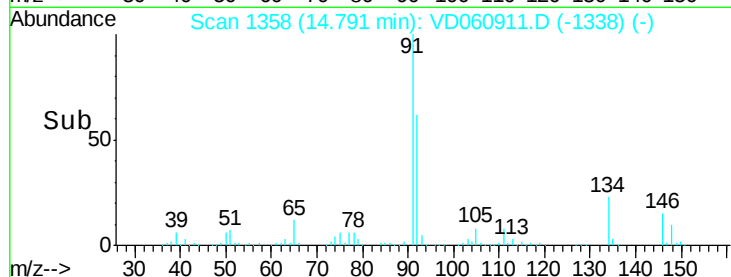
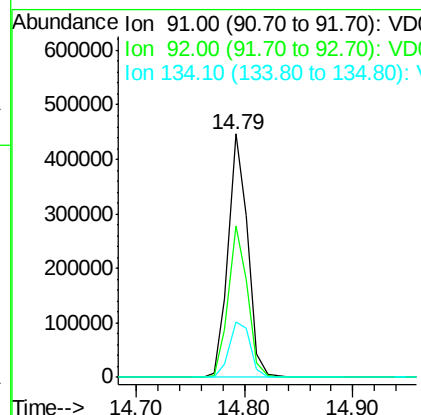
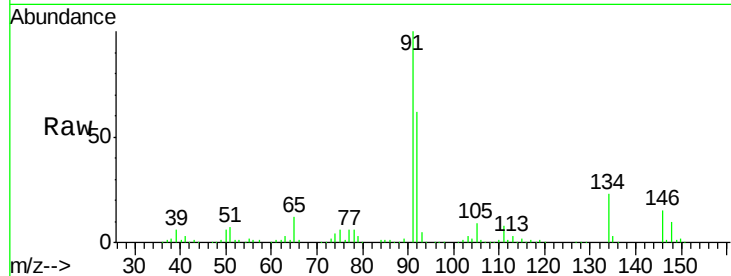
#89
n-Butylbenzene
Concen: 23.256 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.0	30.4	91.2
134	22.7	14.1	42.2

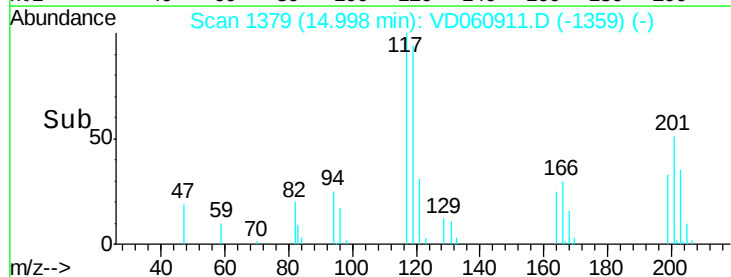
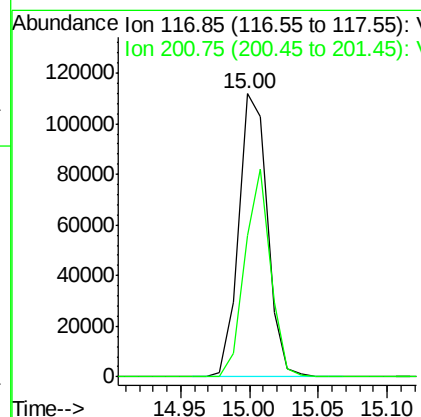
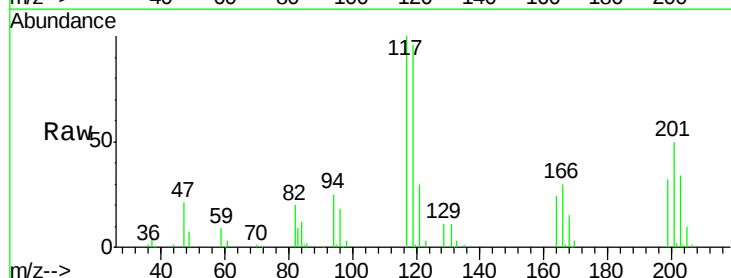
Manual Integrations
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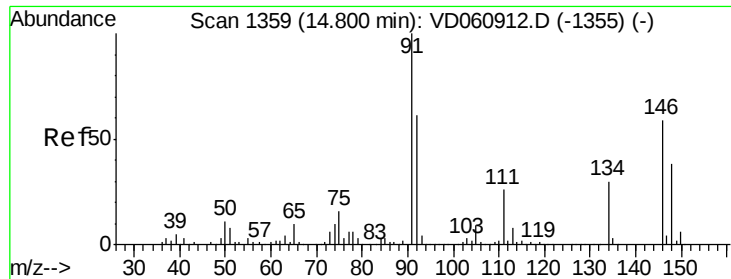
MMDadoda
3/6/2019 5:33:05 AM



#90
Hexachloroethane
Concen: 24.663 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.00 min
Lab File: VD060911.D
Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	50.1	41.4	124.4





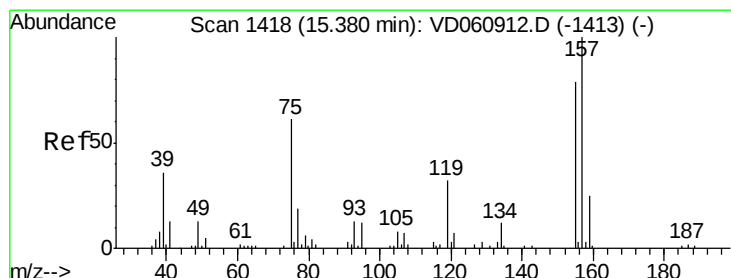
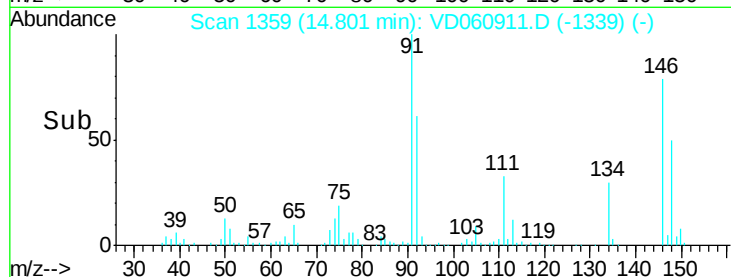
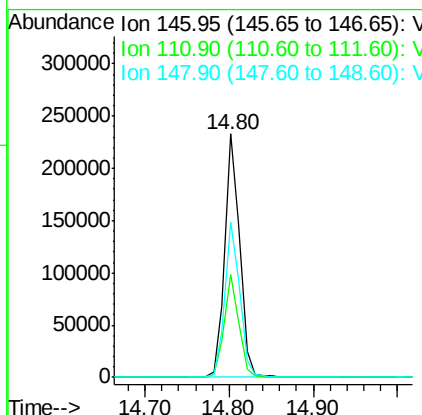
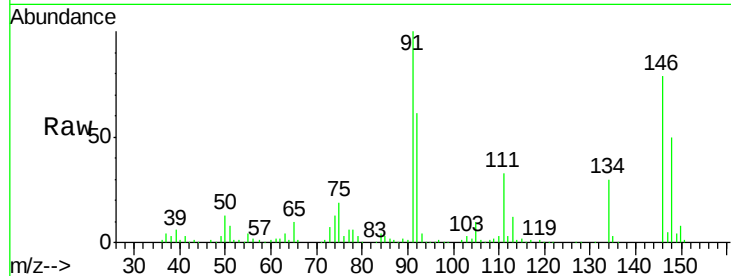
#91
 1,2-Dichlorobenzene
 Concen: 22.431 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	16.7	50.1
148	63.6	32.6	97.8

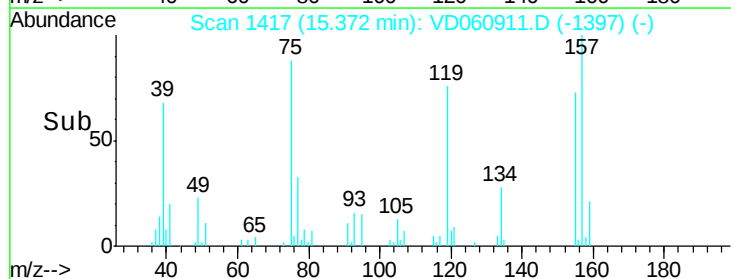
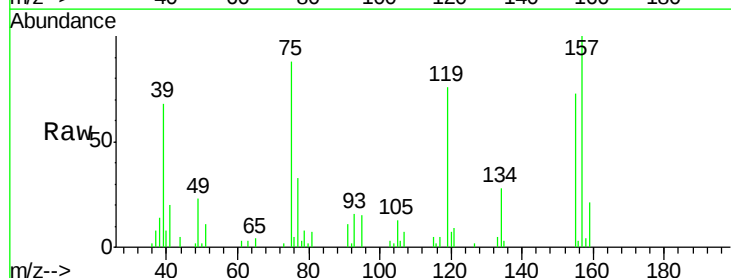
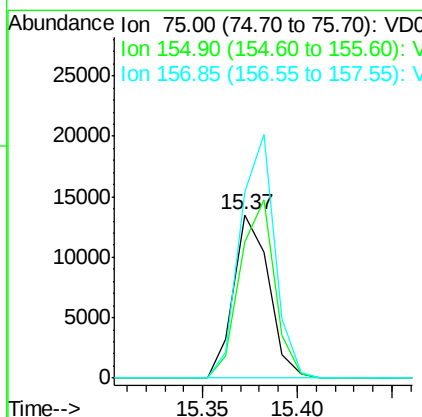
Manual Integrations
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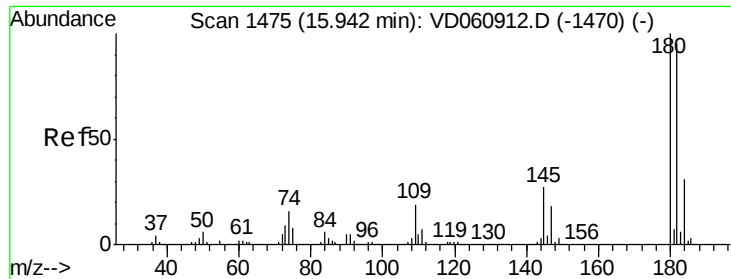
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.207 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.5	58.6	175.8
157	113.7	75.1	225.3





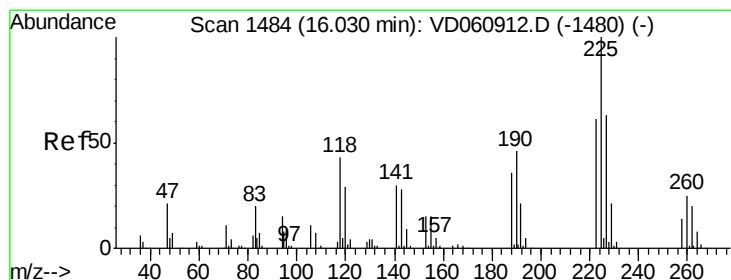
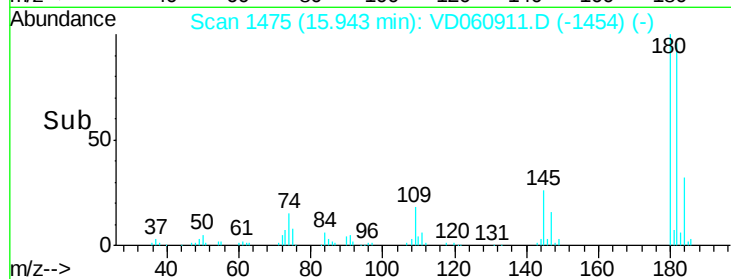
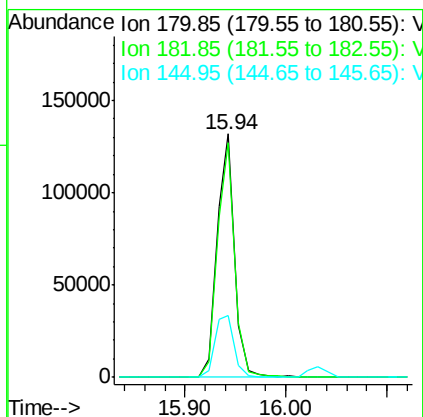
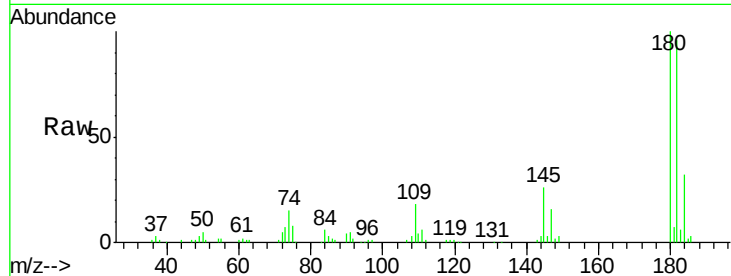
#93
 1,2,4-Trichlorobenzene
 Concen: 17.554 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.01 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	159650		
182	96.5	47.5	142.6	
145	25.5	14.3	42.9	

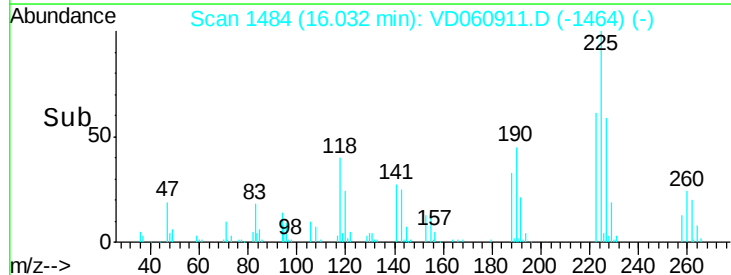
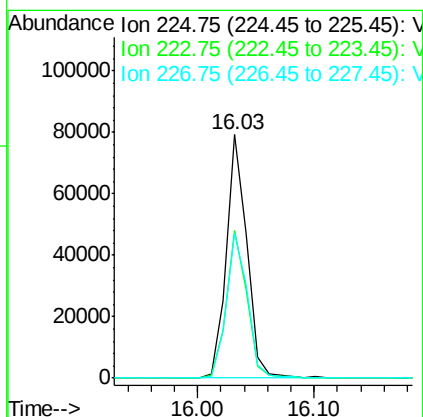
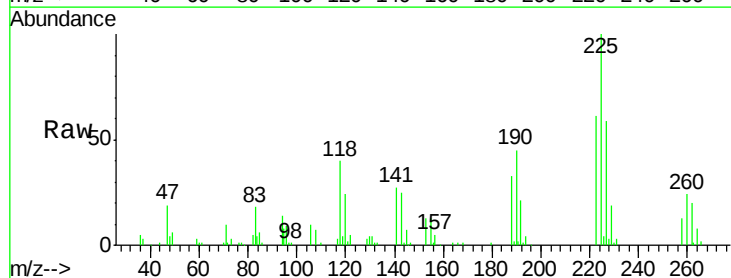
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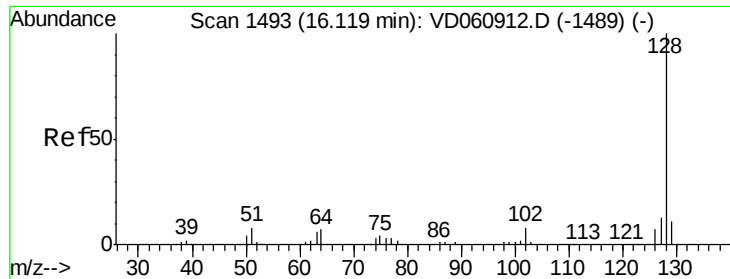
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 3/6/2019 5:33:05 AM



#94
 Hexachlorobutadiene
 Concen: 17.620 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD060911.D
 Acq: 1 Mar 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96146		
223	60.6	30.6	91.6	
227	59.4	32.0	96.0	





#95

Naphthalene

Concen: 18.456 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Instrument :

MSVOA_D

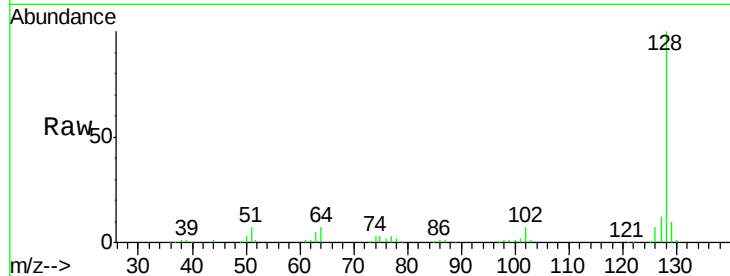
ClientSampleId :

VSTDIC020

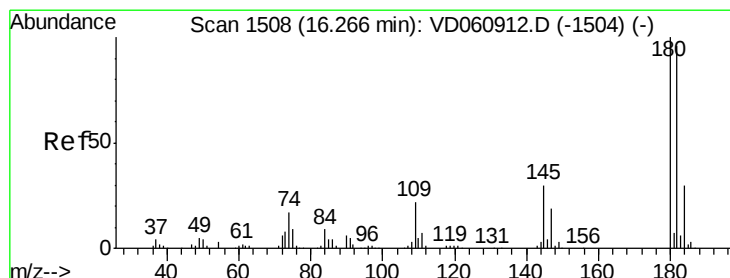
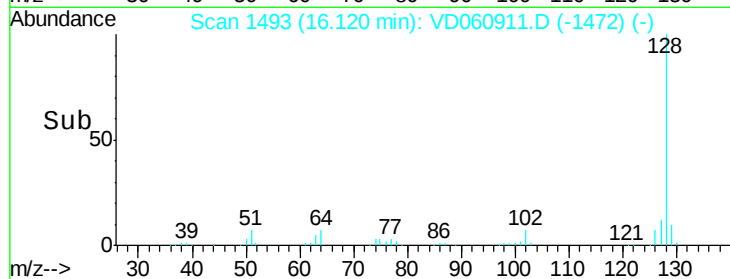
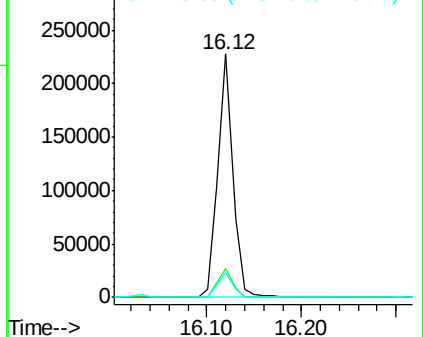
Tot Ion:	128	Resp:	253065
Ion Ratio	Lower	Upper	
128	100		
127	11.6	9.7	14.5
129	10.1	9.0	13.4

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 14.000 ug/l

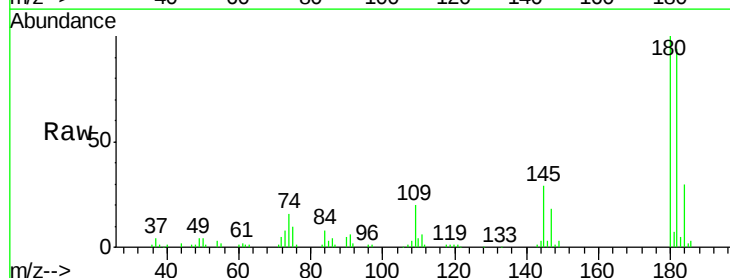
RT: 16.27 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VD060911.D

Acq: 1 Mar 2019 16:08

Tgt Ion:	180	Resp:	97918
Ion Ratio	Lower	Upper	
180	100		
182	93.6	47.9	143.8
145	29.1	12.9	38.7



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

