

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051019\
 Data File : VD062206.D
 Acq On : 10 May 2019 10:32
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:04:04 AM

Quant Time: May 10 23:41:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	863657	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1144021	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	922862	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	482839	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	403593	50.29	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.58%	
35) Dibromofluoromethane	6.93	113	489789	51.60	ug/l	0.03
Spiked Amount	50.000		Recovery	=	103.20%	
50) Toluene-d8	10.41	98	1110888	48.54	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.08%	
62) 4-Bromofluorobenzene	13.56	95	451227	49.10	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	384809	46.586	ug/l	99
3) Chloromethane	1.75	50	234987	39.371	ug/l	99
4) Vinyl Chloride	1.85	62	268081	45.702	ug/l	99
5) Bromomethane	2.15	94	84225	61.279	ug/l	94
6) Chloroethane	2.27	64	124059	50.403	ug/l	98
7) Trichlorofluoromethane	2.53	101	591057	51.829	ug/l	95
8) Diethyl Ether	2.87	74	98256	44.675	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.15	101	407577	47.246	ug/l	98
10) Methyl Iodide	3.31	142	570141	43.729	ug/l	92
11) Tert butyl alcohol	4.05	59	97900	238.963	ug/l	96
12) 1,1-Dichloroethene	3.13	96	319527	48.522	ug/l	95
13) Acrolein	3.03	56	101647	239.880	ug/l	94
14) Allyl chloride	3.62	41	428794	44.783	ug/l	87
15) Acrylonitrile	4.19	53	234678	217.931	ug/l	92
16) Acetone	3.22	43	458681	272.513	ug/l #	89
17) Carbon Disulfide	3.37	76	919136	48.519	ug/l	99
18) Methyl Acetate	3.63	43	128721	42.716	ug/l	93
19) Methyl tert-butyl Ether	4.23	73	642505	45.519	ug/l	95
20) Methylene Chloride	3.82	84	328194	46.699	ug/l	96
21) trans-1,2-Dichloroethene	4.22	96	341278	46.573	ug/l	96
22) Diisopropyl ether	5.12	45	961808	47.205	ug/l	93
23) Vinyl Acetate	5.06	43	2731641	254.102	ug/l	100
24) 1,1-Dichloroethane	4.98	63	577747	47.003	ug/l	99
25) 2-Butanone	6.06	43	453168	246.835	ug/l	99
26) 2,2-Dichloropropane	6.02	77	623871	50.954	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	393179	47.935	ug/l	95
28) Bromochloromethane	6.44	49	241334	49.904	ug/l	91
29) Tetrahydrofuran	6.46	42	189096	223.540	ug/l	97
30) Chloroform	6.66	83	701636	47.364	ug/l	97
31) Cyclohexane	6.96	56	411637	48.882	ug/l	95
32) 1,1,1-Trichloroethane	6.87	97	676788	48.337	ug/l	100
36) 1,1-Dichloropropene	7.14	75	481015	51.281	ug/l	97
37) Ethyl Acetate	6.18	43	192128	48.299	ug/l #	93
38) Carbon Tetrachloride	7.11	117	682749m	52.590	ug/l	

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	455093	50.639	ug/l	99
40) Benzene	7.46	78	1024903	48.388	ug/l	99
41) Methacrylonitrile	6.44	41	240259	49.424	ug/l #	90
42) 1,2-Dichloroethane	7.58	62	462174	51.501	ug/l	92
43) Isopropyl Acetate	9.24	43	278738	49.408	ug/l	98
44) Trichloroethene	8.54	130	407042	50.432	ug/l	86
45) 1,2-Dichloropropane	8.94	63	249469	47.617	ug/l	96
46) Dibromomethane	9.06	93	210132	49.322	ug/l	93
47) Bromodichloromethane	9.38	83	529160	50.778	ug/l	97
48) Methyl methacrylate	9.12	41	167998	48.345	ug/l	91
49) 1,4-Dioxane	9.08	88	34264	913.876	ug/l	94
51) 4-Methyl-2-Pentanone	10.30	43	846685	233.477	ug/l	98
52) Toluene	10.51	92	659902	47.884	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	463029	51.410	ug/l	100
54) cis-1,3-Dichloropropene	10.04	75	509560	51.860	ug/l	91
55) 1,1,2-Trichloroethane	11.19	97	240704	49.364	ug/l	95
56) Ethyl methacrylate	11.04	69	254151	50.158	ug/l #	92
57) 1,3-Dichloropropane	11.40	76	367578	49.898	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.86	63	699381	252.688	ug/l	98
59) 2-Hexanone	11.53	43	666984	249.544	ug/l	96
60) Dibromochloromethane	11.69	129	424600	50.386	ug/l	98
61) 1,2-Dibromoethane	11.81	107	294850	49.737	ug/l	100
64) Tetrachloroethene	11.26	164	358044	49.615	ug/l	94
65) Chlorobenzene	12.40	112	839406	48.835	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	357519	47.792	ug/l	94
67) Ethyl Benzene	12.53	91	1333318	46.334	ug/l	96
68) m/p-Xylenes	12.66	106	1031469	98.522	ug/l	92
69) o-Xylene	13.05	106	492206	50.569	ug/l	94
70) Styrene	13.07	104	871973	52.884	ug/l	95
71) Bromoform	13.24	173	253967	48.797	ug/l #	95
73) Isopropylbenzene	13.40	105	1512397	52.255	ug/l	98
74) N-amyl acetate	13.26	43	374888	49.404	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	268267	48.961	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	250705	43.691	ug/l	97
77) Bromobenzene	13.67	156	424410	52.382	ug/l	93
78) n-propylbenzene	13.78	91	1784775	51.694	ug/l	100
79) 2-Chlorotoluene	13.84	91	925900	46.826	ug/l	90
80) 1,3,5-Trimethylbenzene	13.93	105	1233935	50.629	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.47	75	78089	48.206	ug/l #	85
82) 4-Chlorotoluene	13.94	91	1164037	50.026	ug/l	86
83) tert-Butylbenzene	14.19	119	1421687	51.897	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	1225950	50.126	ug/l	96
85) sec-Butylbenzene	14.37	105	1488782	49.568	ug/l	98
86) p-Isopropyltoluene	14.49	119	1293323	48.196	ug/l	97
87) 1,3-Dichlorobenzene	14.46	146	678976	45.875	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	734091	50.478	ug/l	98
89) n-Butylbenzene	14.80	91	1200679	49.849	ug/l	97
90) Hexachloroethane	15.01	117	372882	51.096	ug/l	92
91) 1,2-Dichlorobenzene	14.81	146	587990	48.238	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	44878	49.896	ug/l	97

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ClientSampleId :
VSTDCCC050

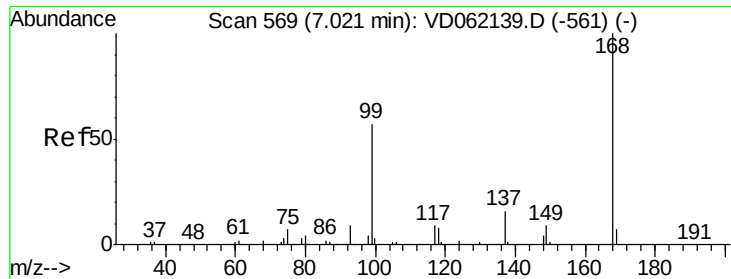
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	401063	45.205	ug/l	98
94) Hexachlorobutadiene	16.04	225	301037	45.620	ug/l	98
95) Naphthalene	16.12	128	512473	41.373	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	209804	37.611	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 863657

Ion Ratio Lower Upper

168 100

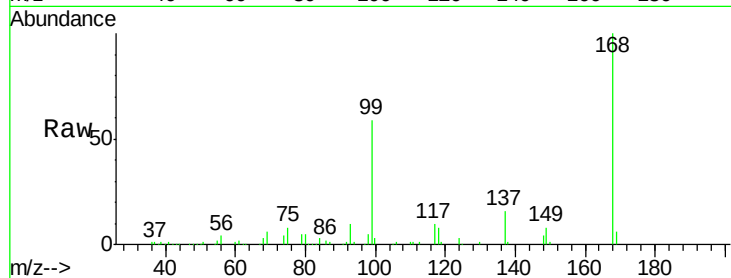
99 59.0 46.5 69.7

Manual Integrations

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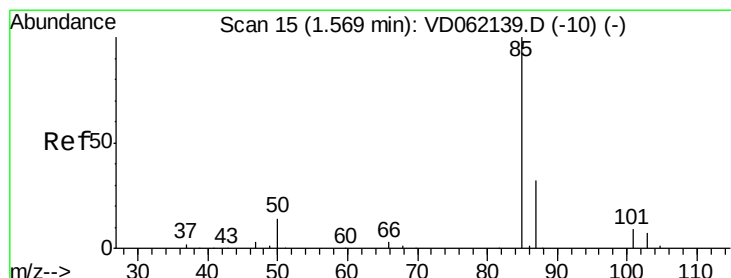
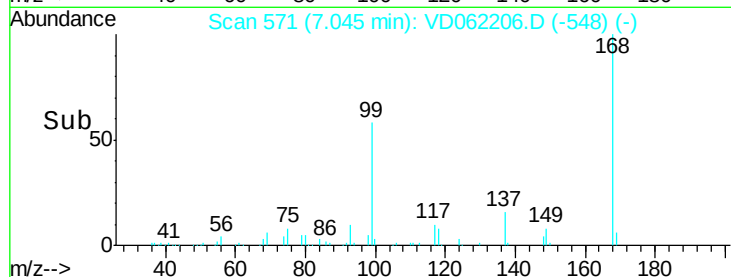
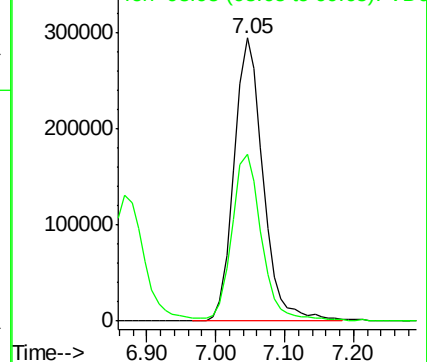
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 46.586 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062206.D

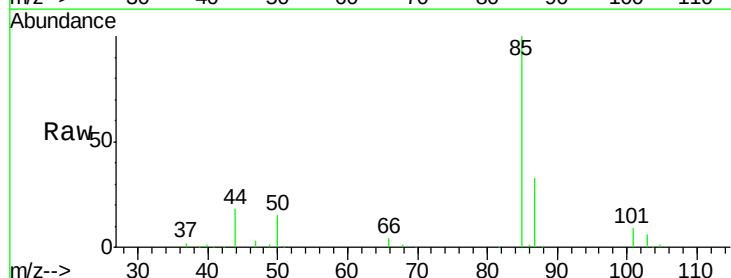
Acq: 10 May 2019 10:32

Tgt Ion: 85 Resp: 384809

Ion Ratio Lower Upper

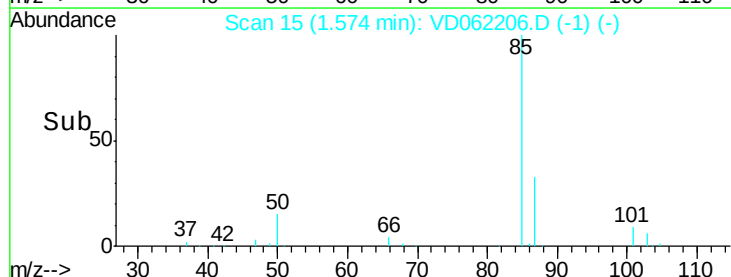
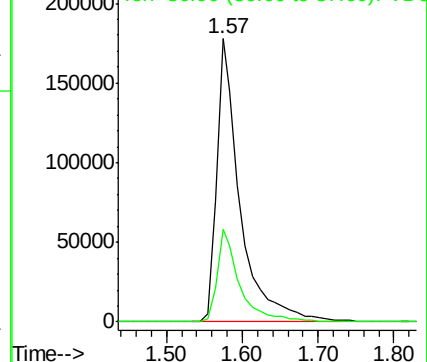
85 100

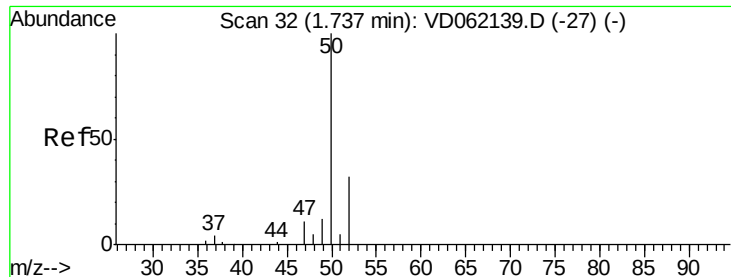
87 32.8 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 39.371 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 234987

Ion Ratio Lower Upper

50 100

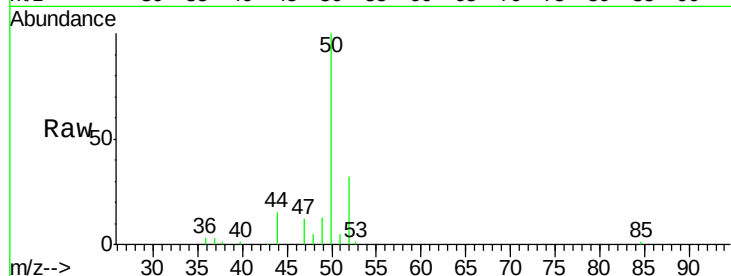
52 32.0 25.2 37.8

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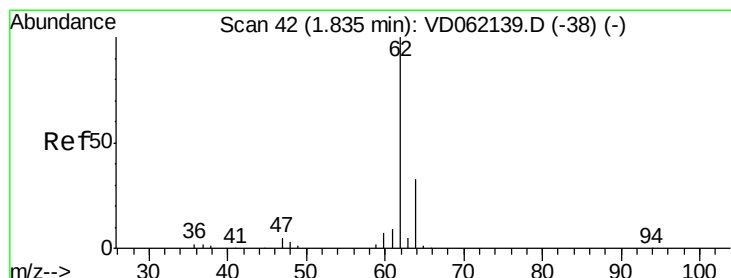
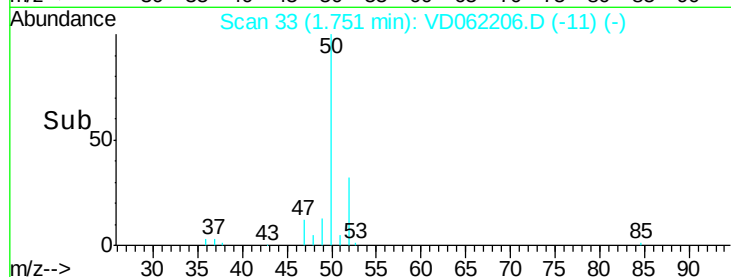
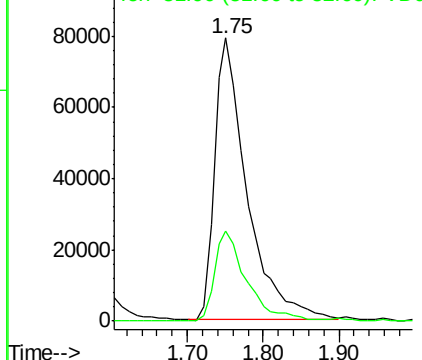
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 45.702 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062206.D

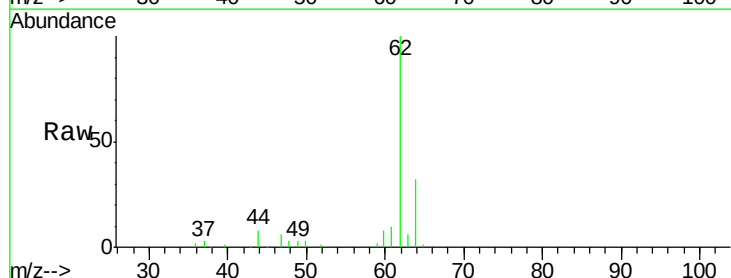
Acq: 10 May 2019 10:32

Tgt Ion: 62 Resp: 268081

Ion Ratio Lower Upper

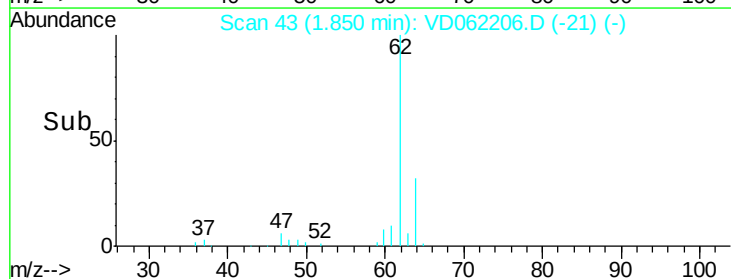
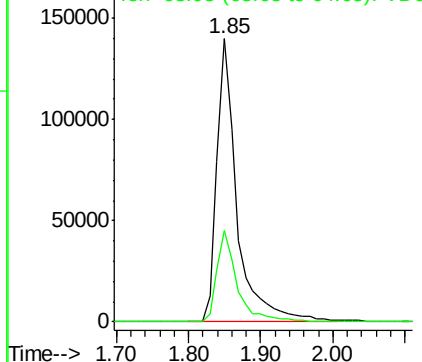
62 100

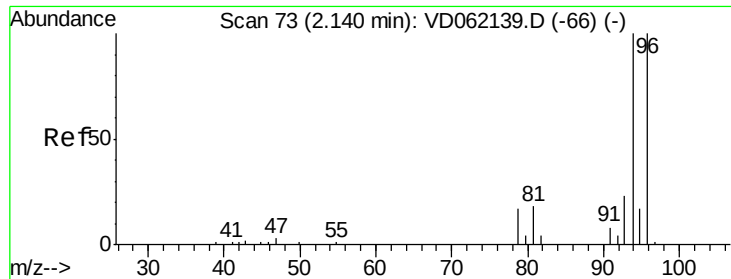
64 32.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 61.279 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

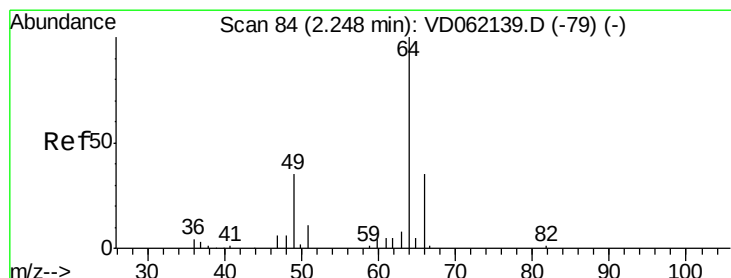
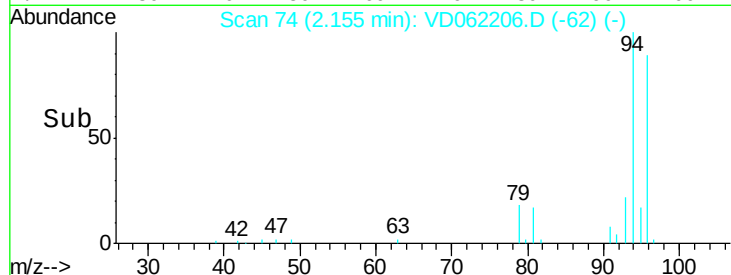
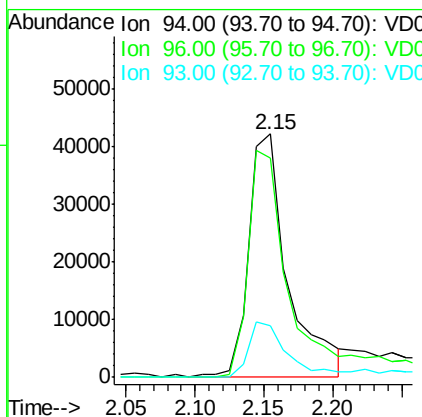
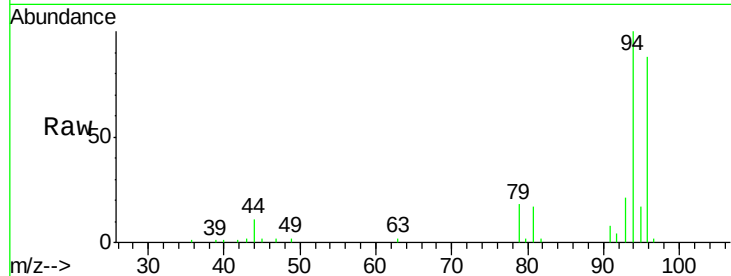
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	84225
Ion	Ratio	Lower	Upper
94	100		
96	89.9	76.6	115.0
93	21.4	18.5	27.7

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#6

Chloroethane

Concen: 50.403 ug/l

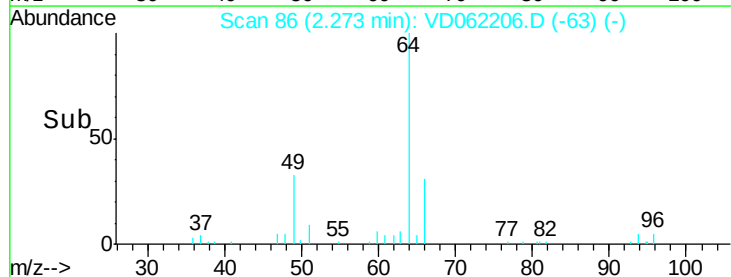
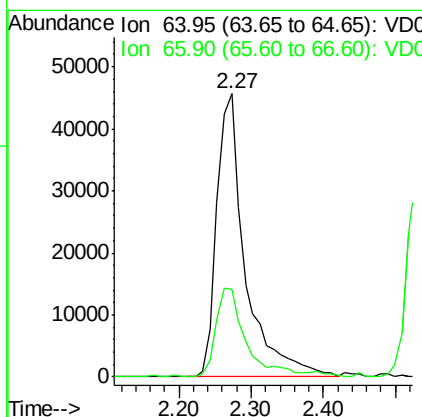
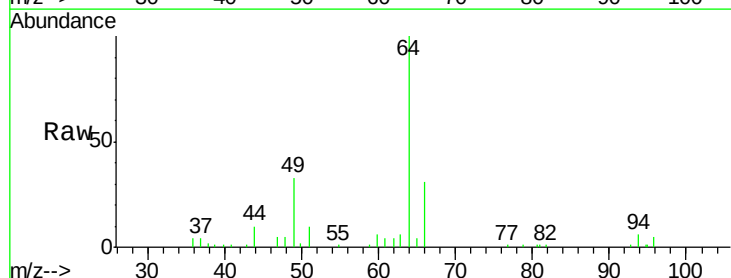
RT: 2.27 min Scan# 86

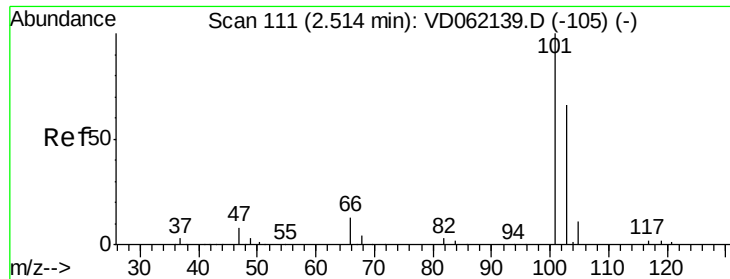
Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	64	Resp:	124059
Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.6	38.4





#7

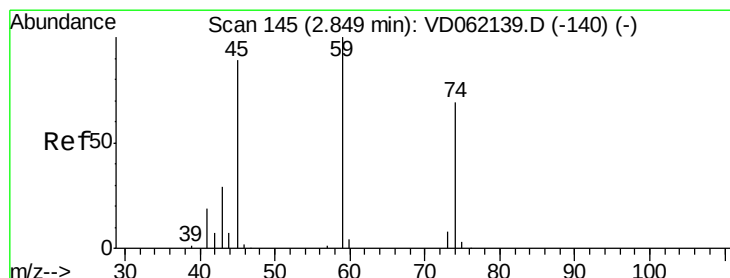
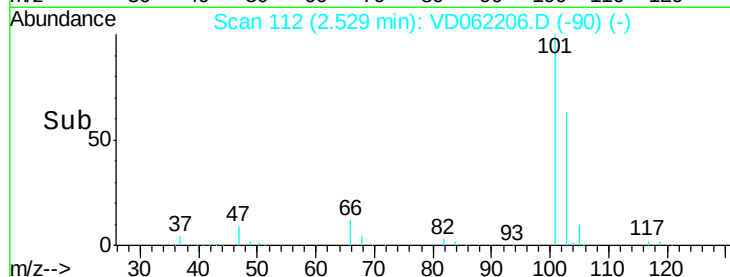
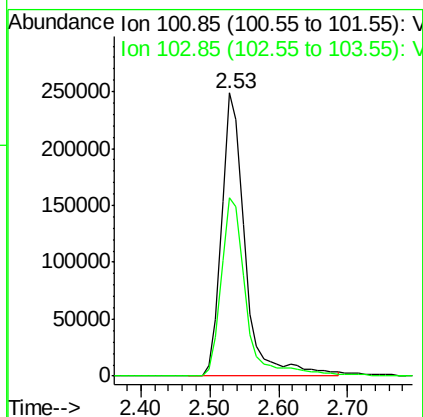
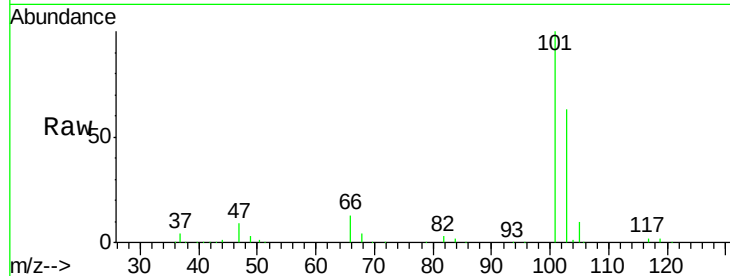
Trichlorofluoromethane
Concen: 51.829 ug/l
RT: 2.53 min Scan# 112
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	591057		
103	63.2		53.6	80.4

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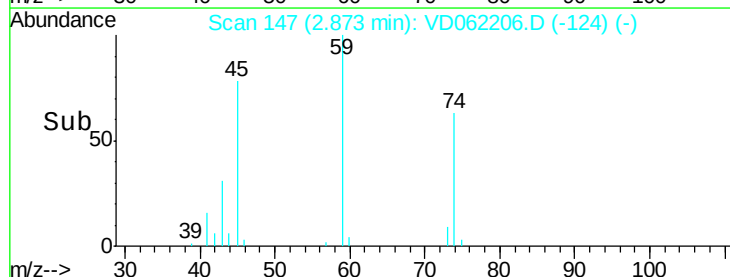
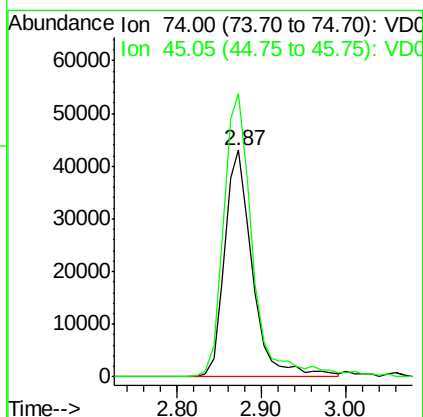
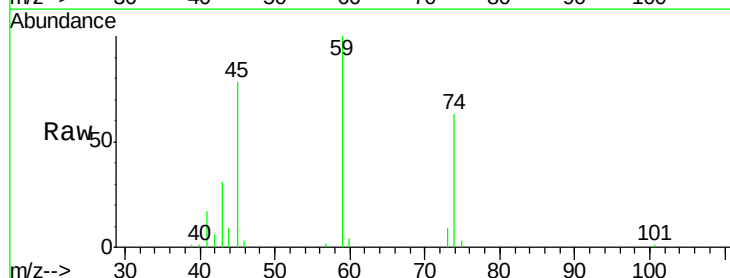
MMDadoda
5/13/2019 4:04:04 AM

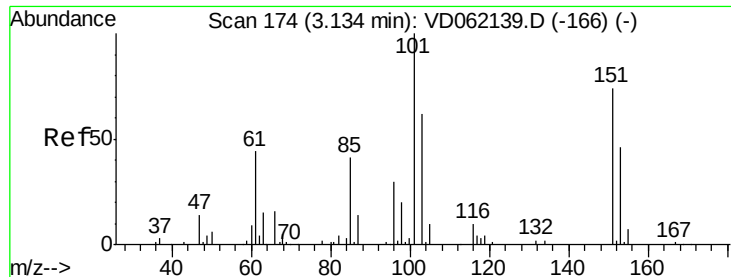


#8

Diethyl Ether
Concen: 44.675 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	98256		
45	124.9		56.9	170.7





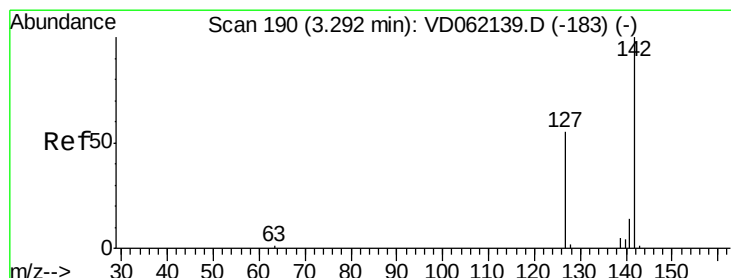
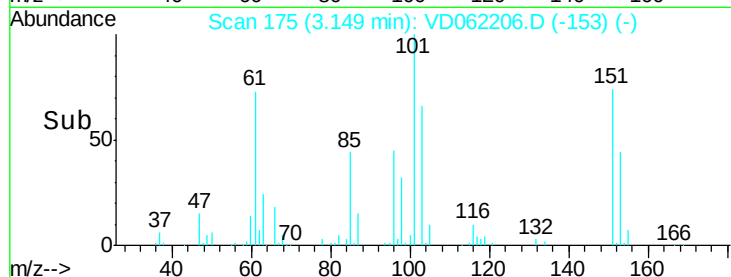
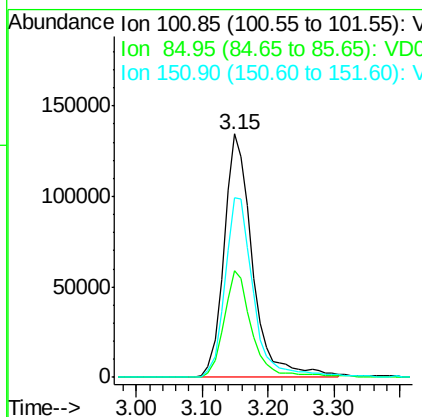
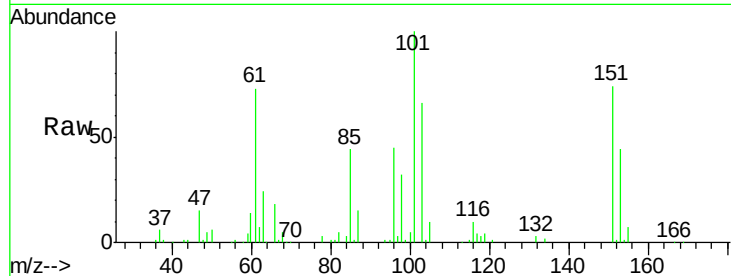
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.246 ug/l
 RT: 3.15 min Scan# 175
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	407577		
85	43.9	32.4	48.6	
151	73.9	59.4	89.0	

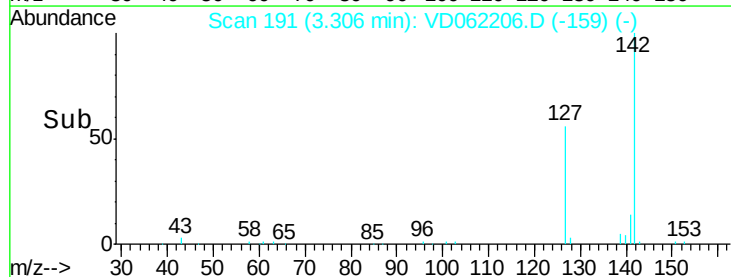
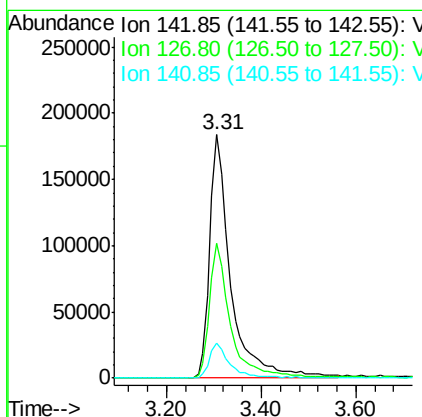
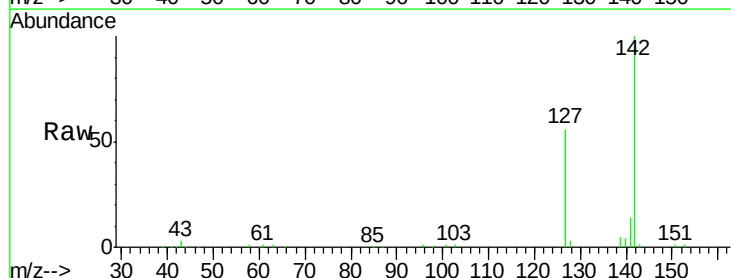
Manual Integrations
 APPROVED

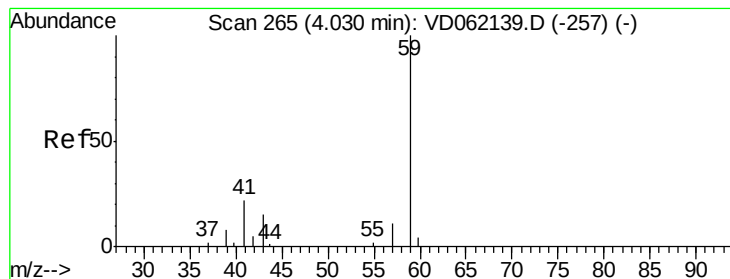
MMDadoda
 5/13/2019 4:04:04 AM



#10
 Methyl Iodide
 Concen: 43.729 ug/l
 RT: 3.31 min Scan# 191
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	570141		
127	55.5	38.8	58.2	
141	14.4	11.4	17.0	





#11

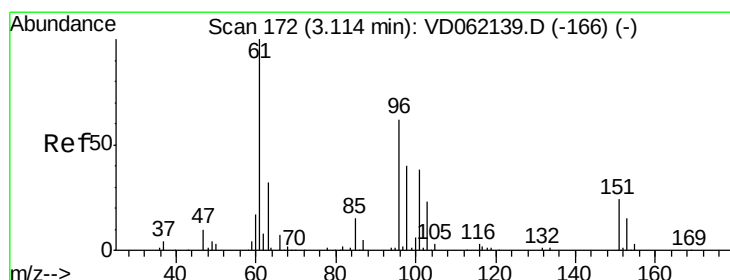
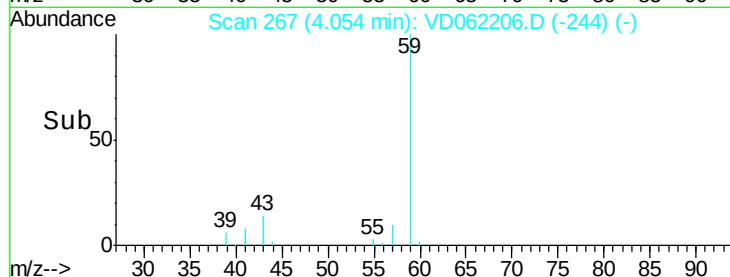
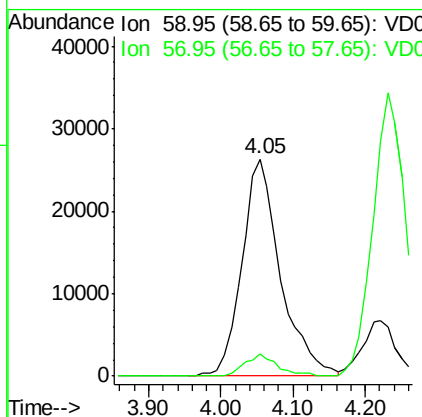
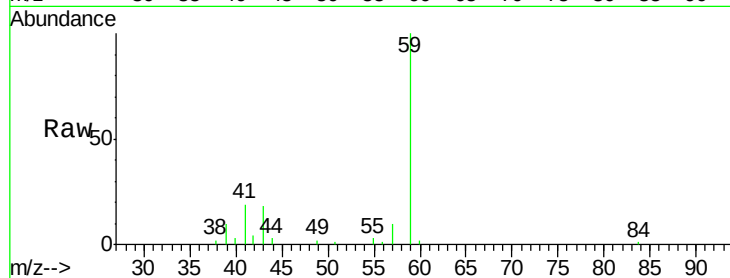
Tert butyl alcohol
 Concen: 238.963 ug/l
 RT: 4.05 min Scan# 267
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	97900		
57	10.2		6.9	10.3

Manual Integrations
 APPROVED

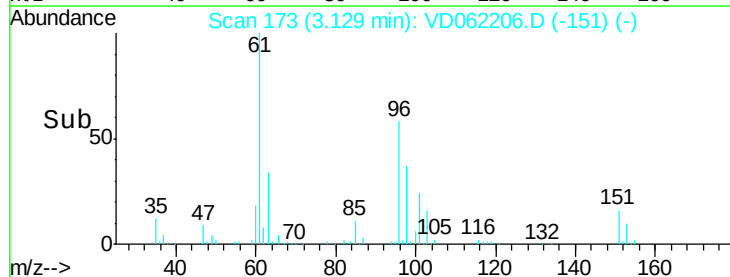
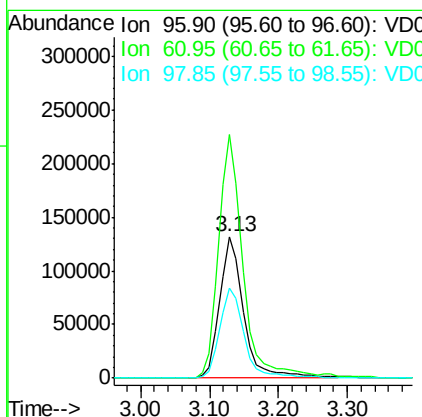
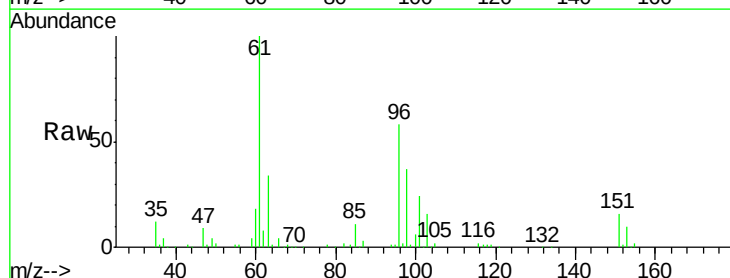
MMDadoda
 5/13/2019 4:04:04 AM

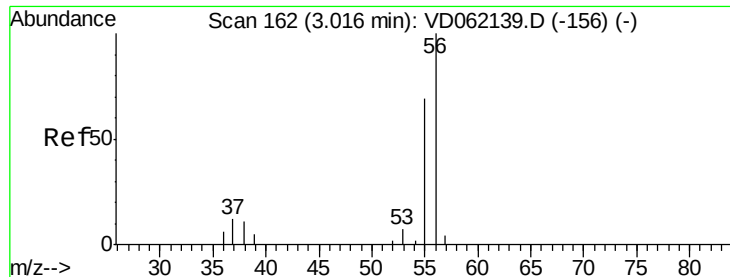


#12

1,1-Dichloroethene
 Concen: 48.522 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	319527		
61	172.4		129.8	194.8
98	63.9		51.2	76.8





#13

Acrolein

Concen: 239.880 ug/l

RT: 3.03 min Scan# 163

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 101647

Ion Ratio Lower Upper

56 100

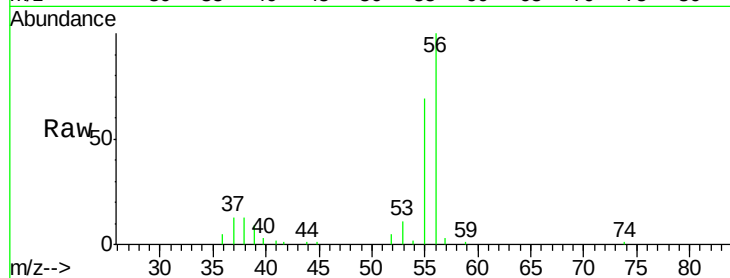
55 68.8 51.4 77.2

Manual Integrations

APPROVED

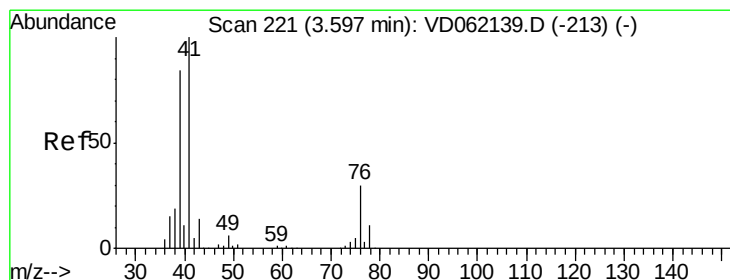
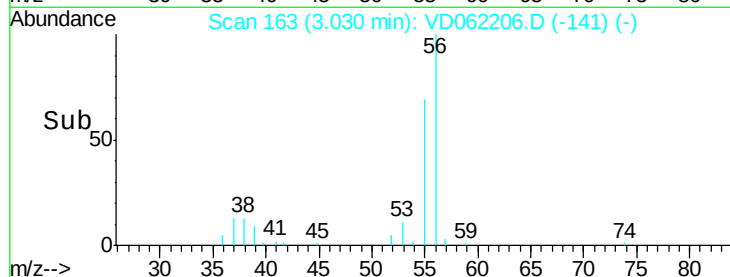
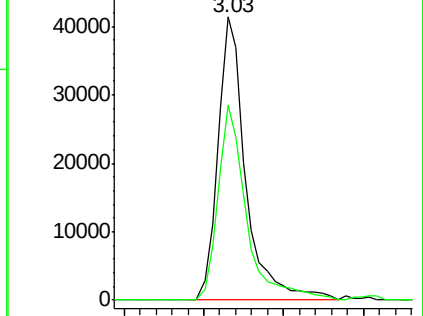
MMDadoda

5/13/2019 4:04:04 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 44.783 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

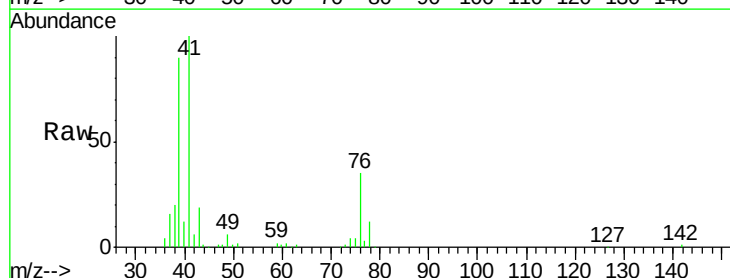
Tgt Ion: 41 Resp: 428794

Ion Ratio Lower Upper

41 100

39 89.7 60.5 90.7

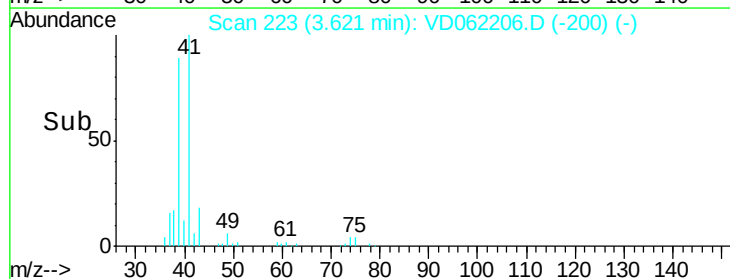
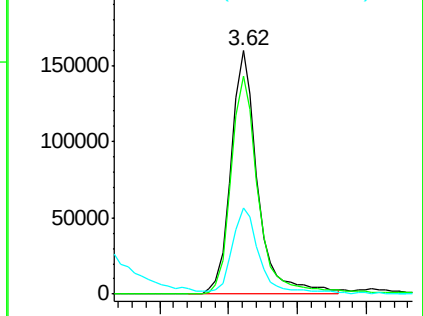
76 35.2 31.8 47.8

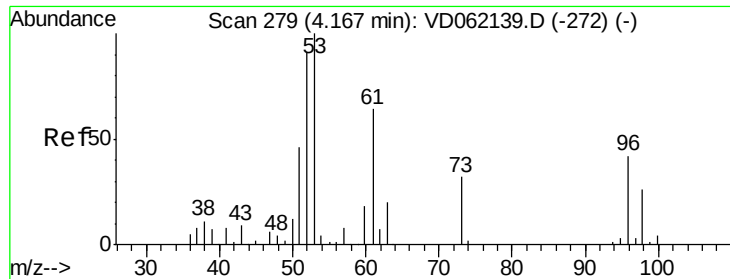


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





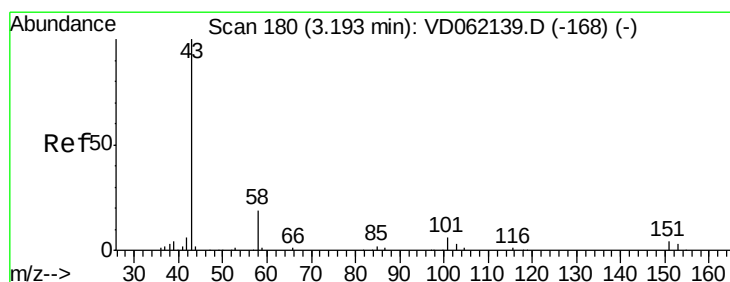
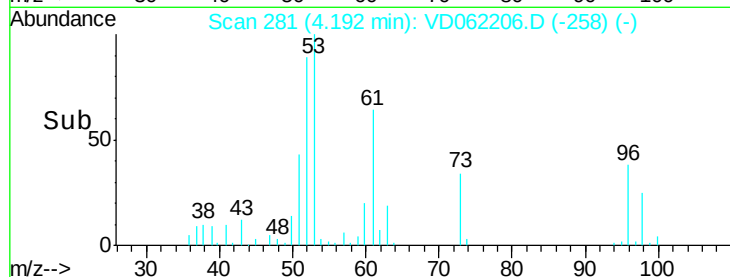
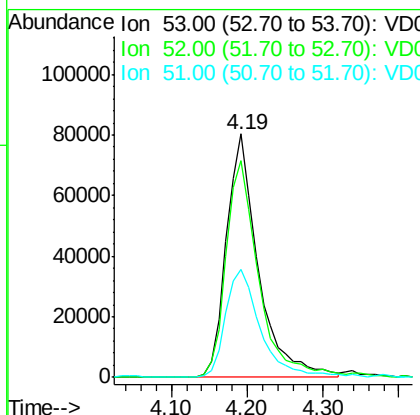
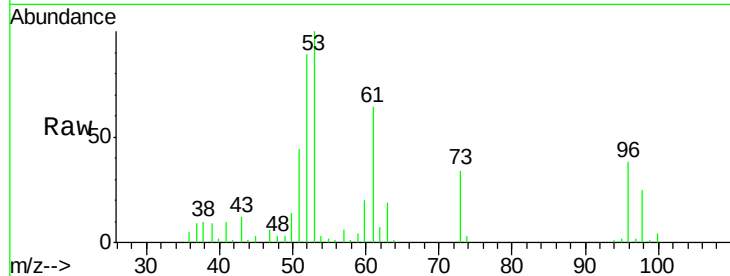
#15
 Acrylonitrile
 Concen: 217.931 ug/l
 RT: 4.19 min Scan# 281
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
53	100	234678		
52	89.2	65.0	97.4	
51	44.3	32.6	48.8	

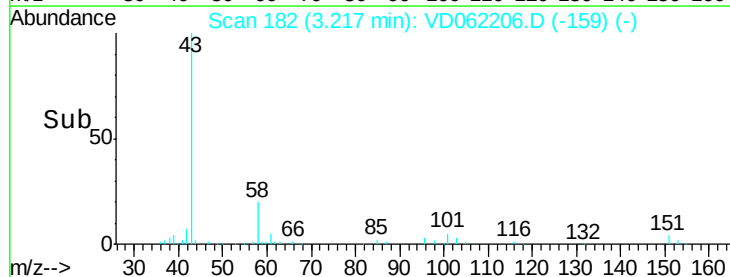
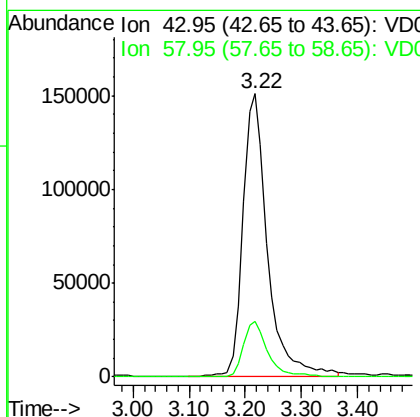
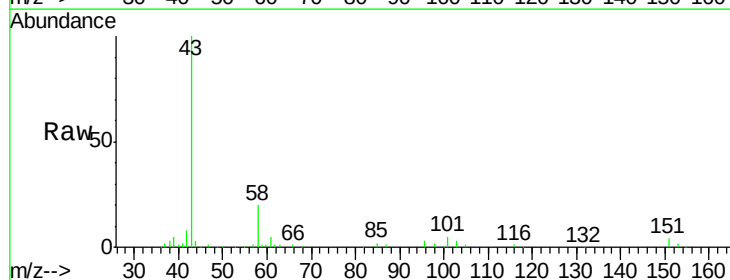
Manual Integrations
 APPROVED

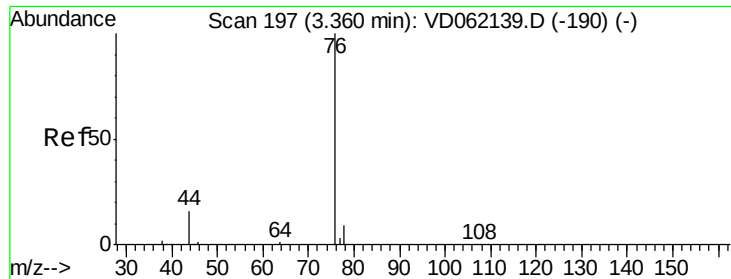
MMDadoda
 5/13/2019 4:04:04 AM



#16
 Acetone
 Concen: 272.513 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	458681		
58	19.6	19.9	29.9	#





#17

Carbon Disulfide

Concen: 48.519 ug/l

RT: 3.37 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 919136

Ion Ratio Lower Upper

76 100

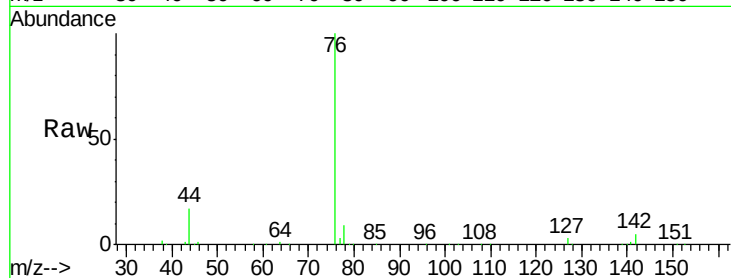
78 8.5 7.2 10.8

Manual Integrations

APPROVED

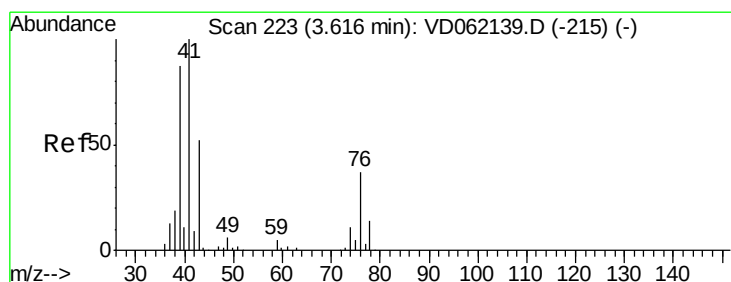
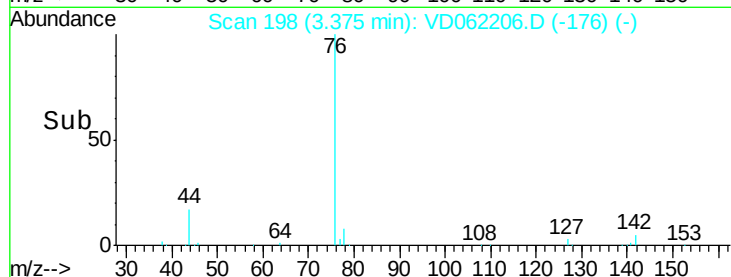
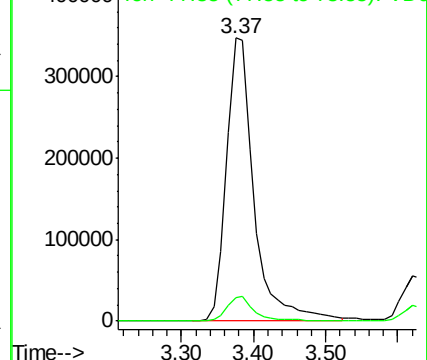
MMDadoda

5/13/2019 4:04:04 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 42.716 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD062206.D

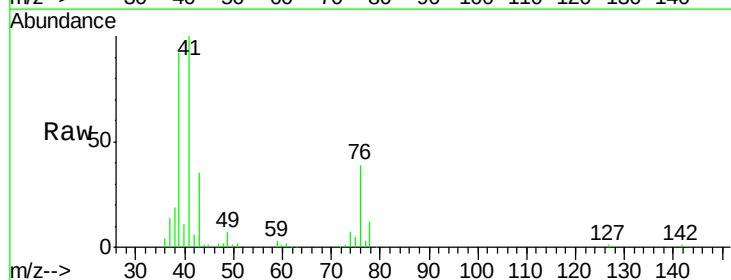
Acq: 10 May 2019 10:32

Tgt Ion: 43 Resp: 128721

Ion Ratio Lower Upper

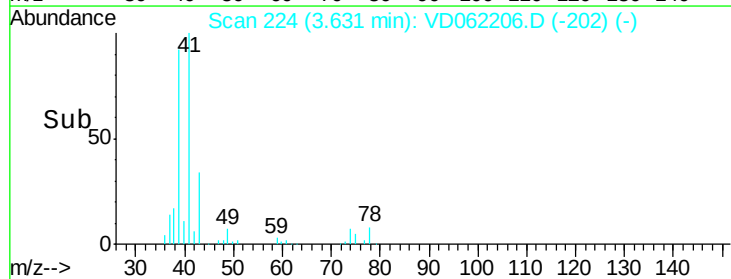
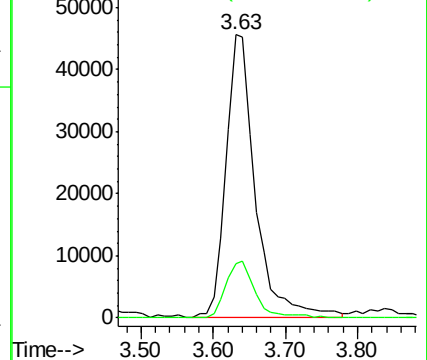
43 100

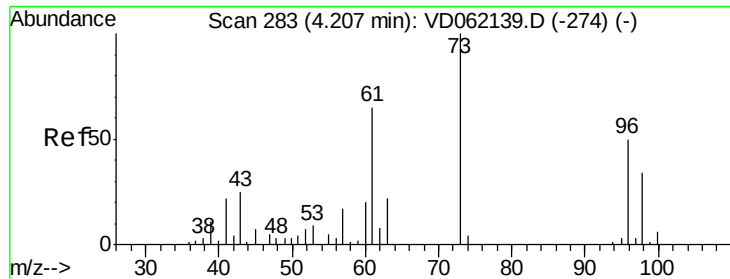
74 19.0 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





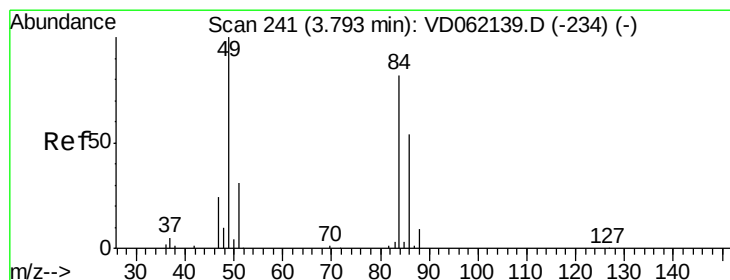
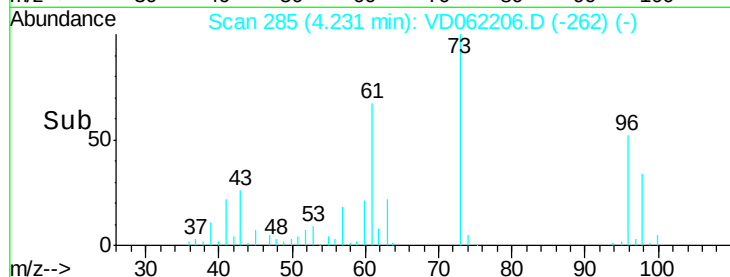
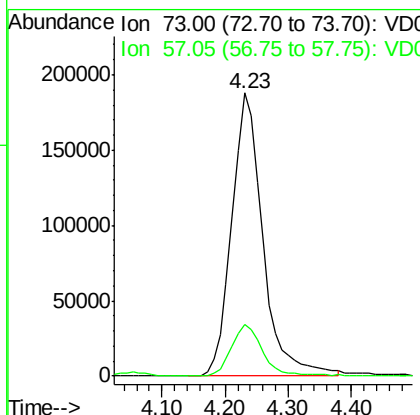
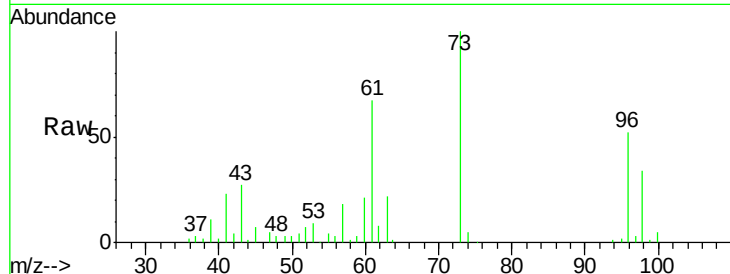
#19
Methyl tert-butyl Ether
Concen: 45.519 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 642505
Ion Ratio Lower Upper
73 100
57 18.3 16.3 24.5

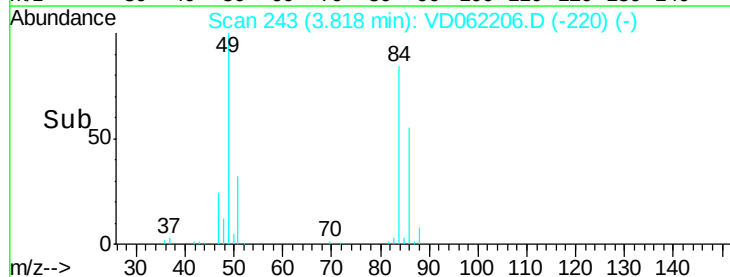
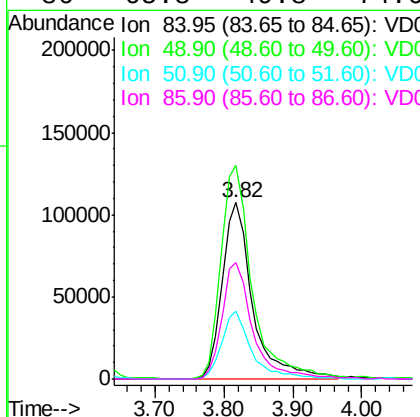
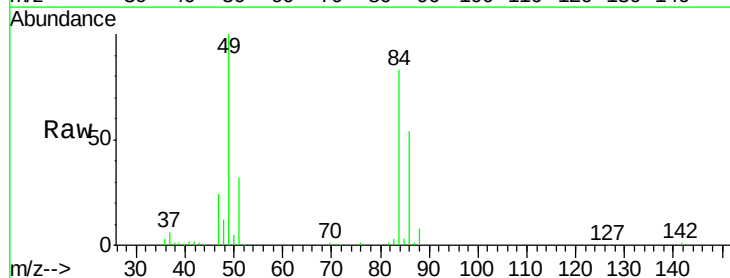
Manual Integrations
APPROVED

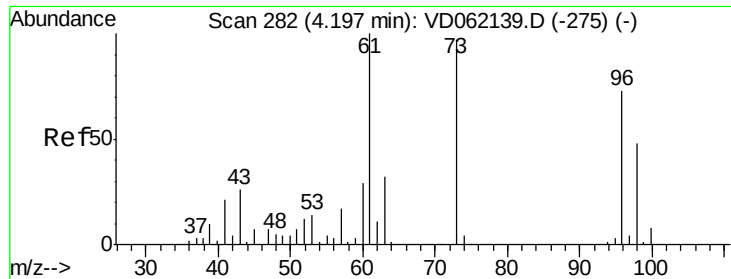
MMDadoda
5/13/2019 4:04:04 AM



#20
Methylene Chloride
Concen: 46.699 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion: 84 Resp: 328194
Ion Ratio Lower Upper
84 100
49 121.2 94.0 141.0
51 38.7 29.0 43.4
86 65.8 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 46.573 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 341278

Ion Ratio Lower Upper

96 100

61 135.5 104.4 156.6

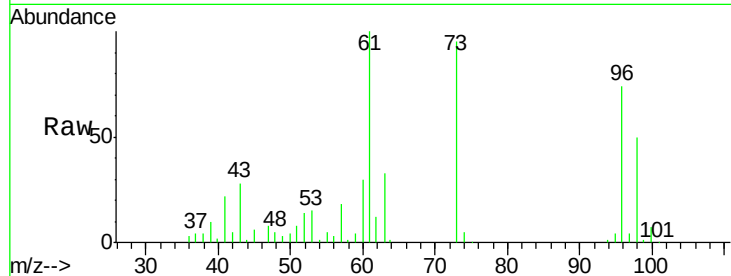
98 67.5 51.8 77.8

Manual Integrations

APPROVED

MMDadoda

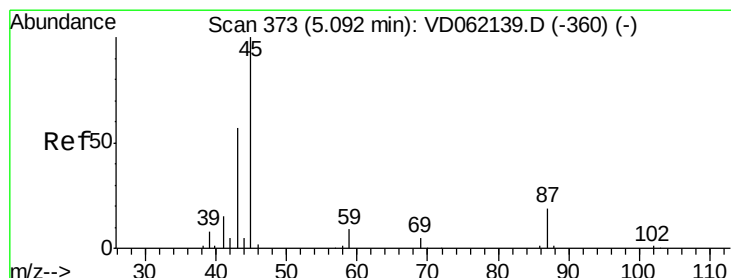
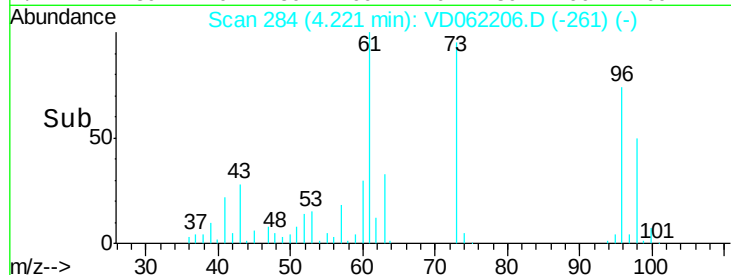
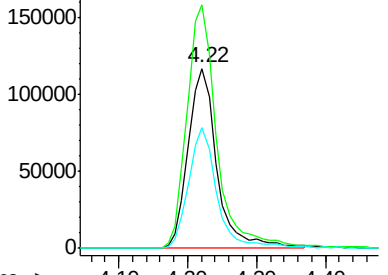
5/13/2019 4:04:04 AM



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: 47.205 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion: 45 Resp: 961808

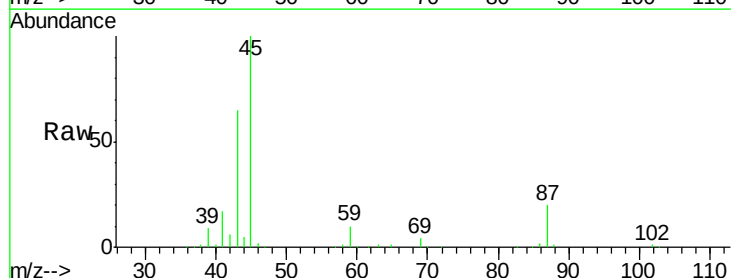
Ion Ratio Lower Upper

45 100

43 65.0 46.2 69.2

87 20.2 15.9 23.9

59 9.8 7.9 11.9

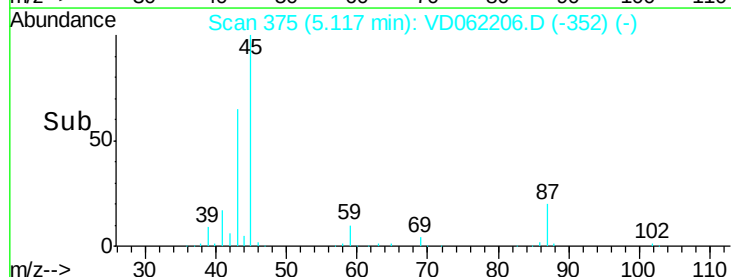
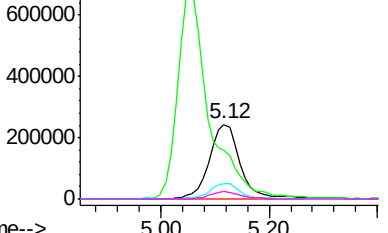


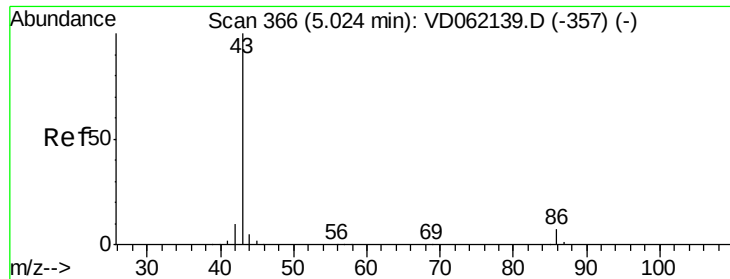
Abundance Ion 45.05 (44.75 to 45.75): VDC

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





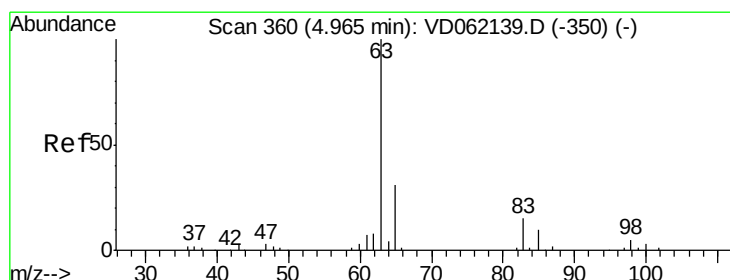
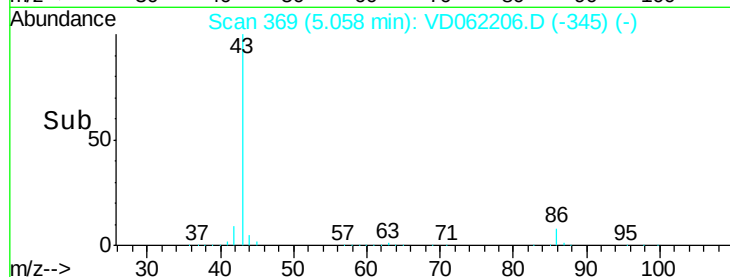
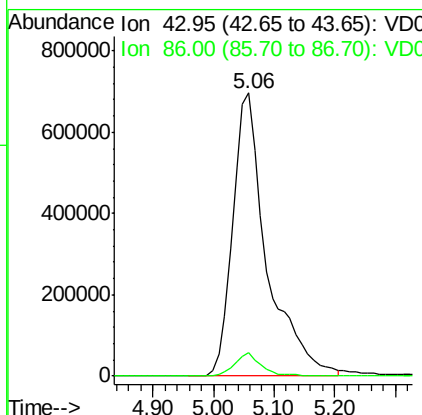
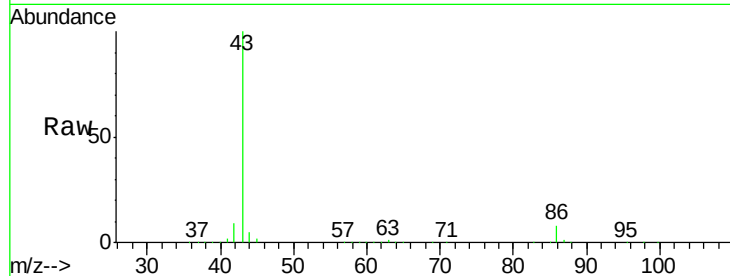
#23
 Vinyl Acetate
 Concen: 254.102 ug/l
 RT: 5.06 min Scan# 369
 Delta R.T. 0.03 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 2731641
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.4 9.6

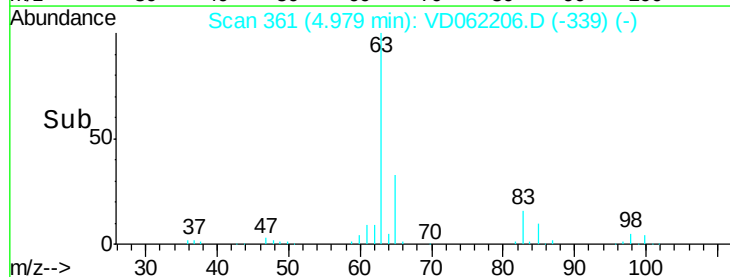
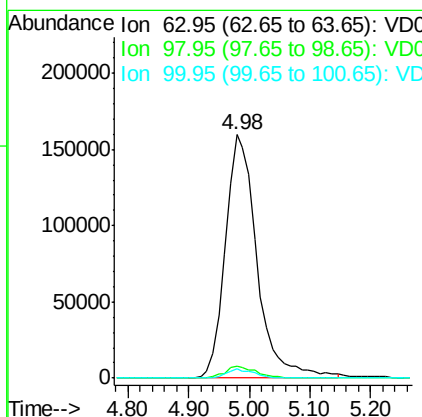
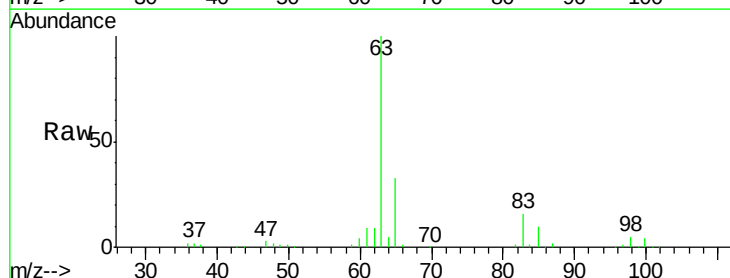
Manual Integrations
 APPROVED

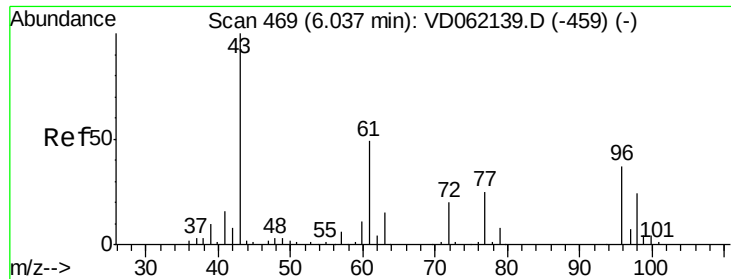
MMDadoda
 5/13/2019 4:04:04 AM



#24
 1,1-Dichloroethane
 Concen: 47.003 ug/l
 RT: 4.98 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion: 63 Resp: 577747
 Ion Ratio Lower Upper
 63 100
 98 5.0 2.8 8.4
 100 3.9 1.8 5.5





#25

2-Butanone

Concen: 246.835 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tot Ion: 43 Resp: 453168

Ion Ratio Lower Upper

43 100

72 19.8 16.2 24.4

Instrument :

MSVOA_D

ClientSampleId :

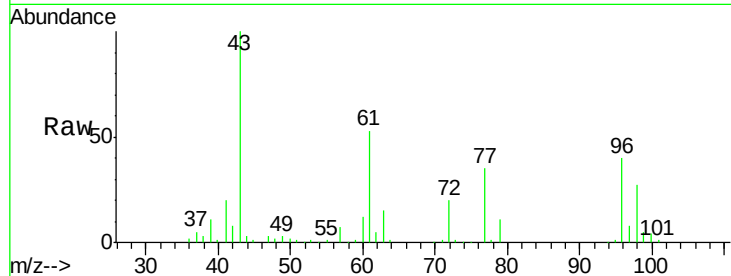
VSTDCCC050

Manual Integrations

APPROVED

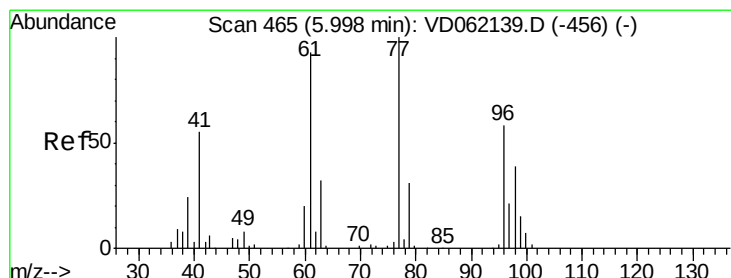
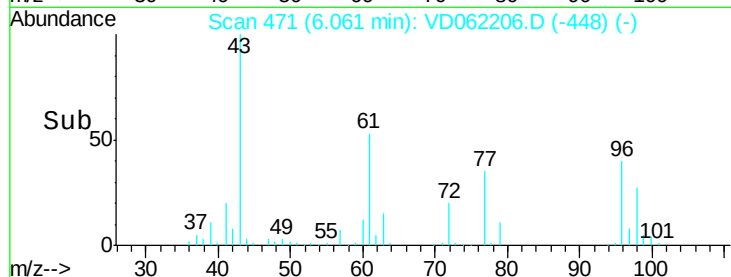
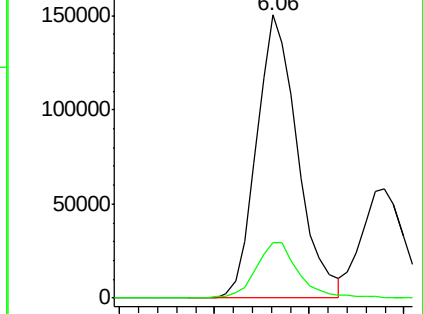
MMDadoda

5/13/2019 4:04:04 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: 50.954 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.02 min

Lab File: VD062206.D

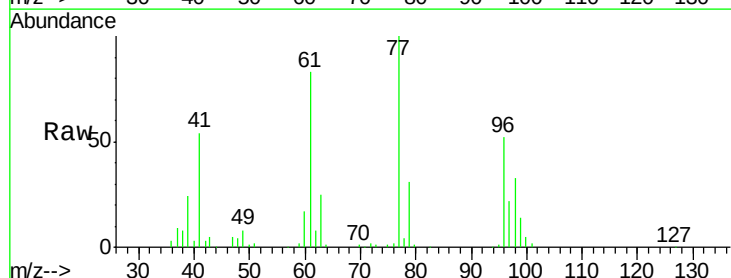
Acq: 10 May 2019 10:32

Tgt Ion: 77 Resp: 623871

Ion Ratio Lower Upper

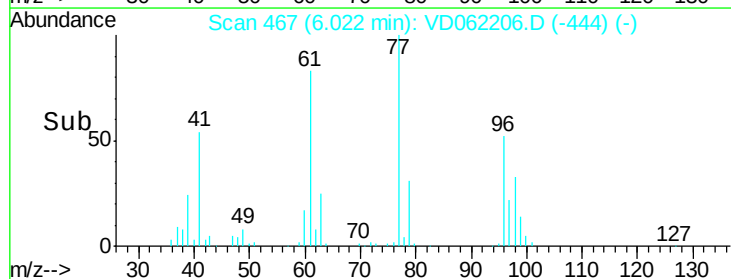
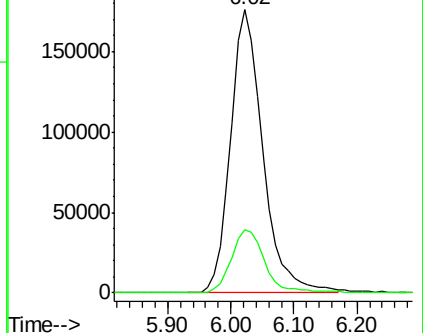
77 100

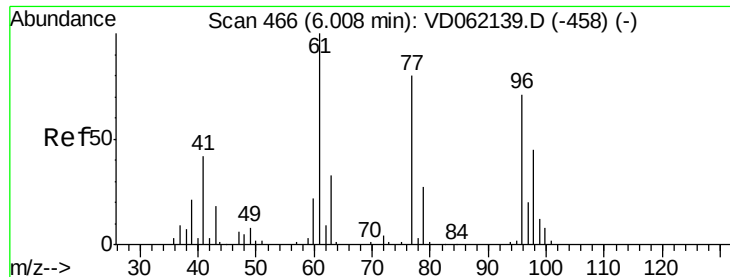
97 22.4 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





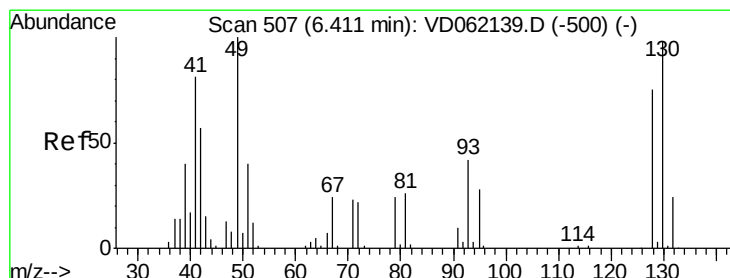
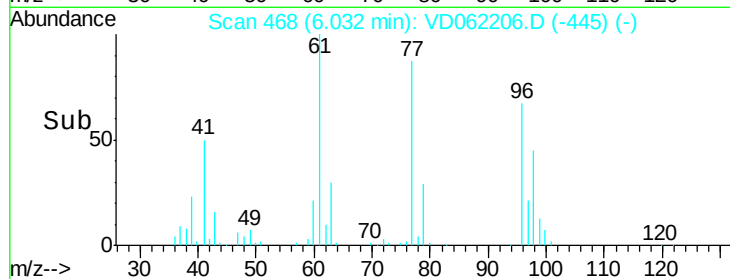
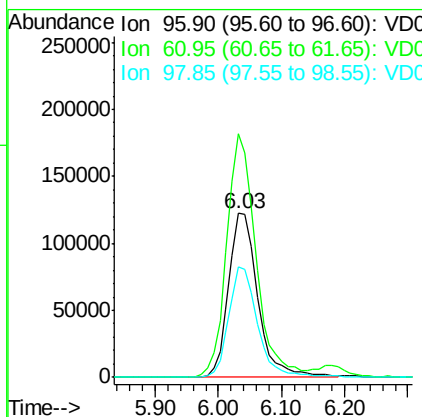
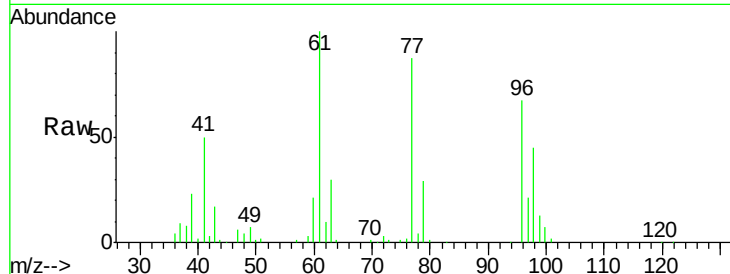
#27
 cis-1,2-Dichloroethene
 Concen: 47.935 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	393179		
61	148.7	0.0	279.8	
98	67.7	0.0	136.0	

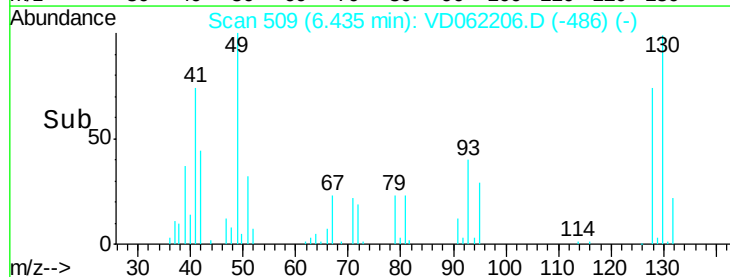
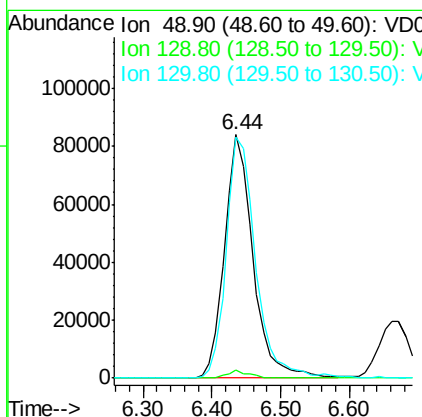
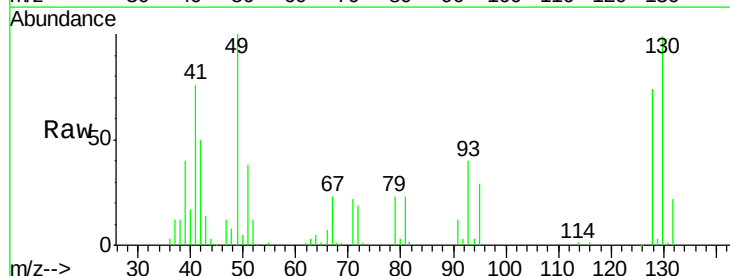
Manual Integrations
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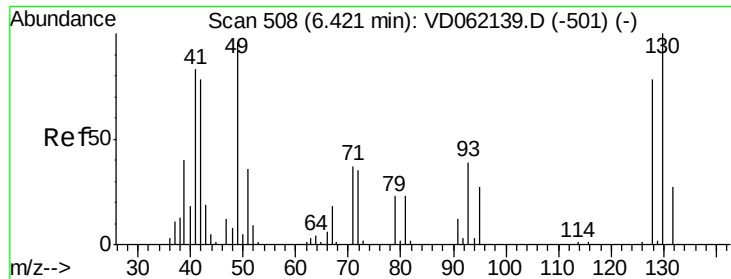
MMDadoda
 5/13/2019 4:04:04 AM



#28
 Bromochloromethane
 Concen: 49.904 ug/l
 RT: 6.44 min Scan# 509
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	241334		
129	3.3	0.0	6.6	
130	99.1	86.7	130.1	





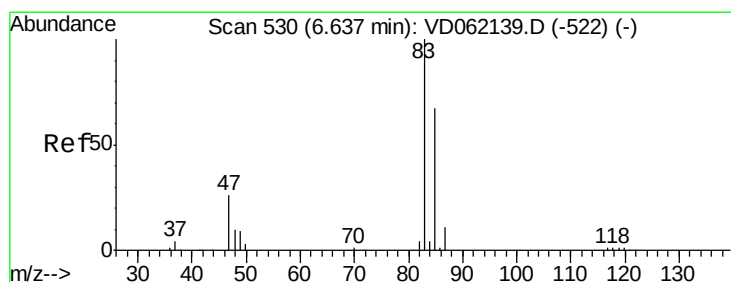
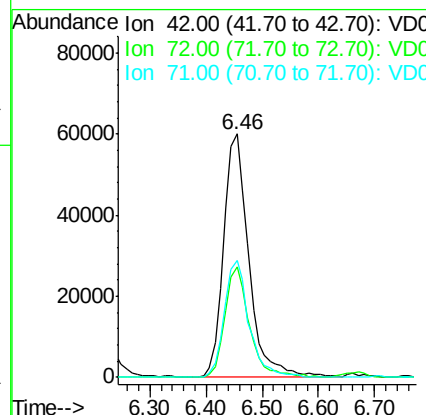
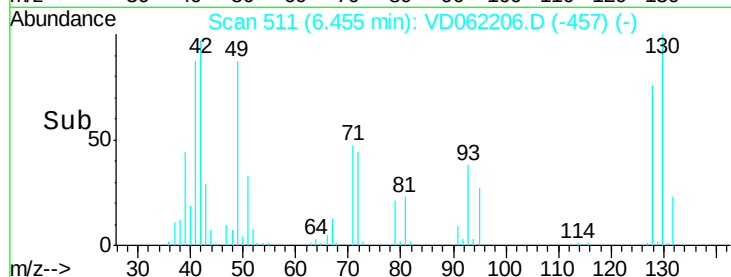
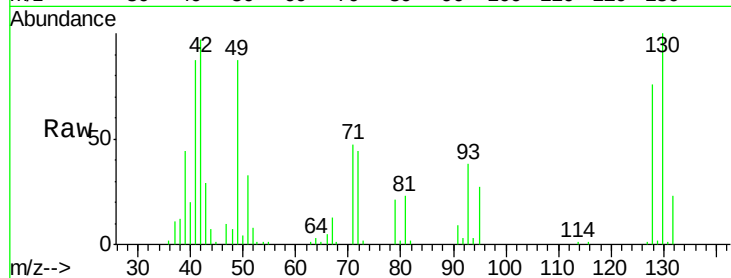
#29
Tetrahydrofuran
Concen: 223.540 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	43.9		37.8	56.6
71	46.7		36.7	55.1

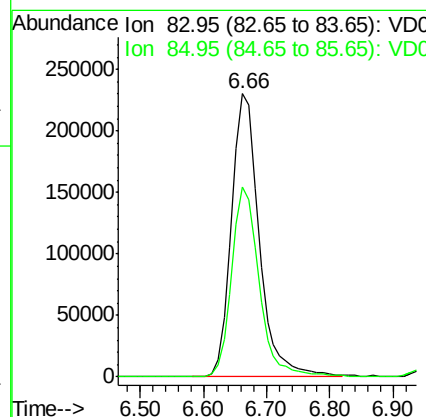
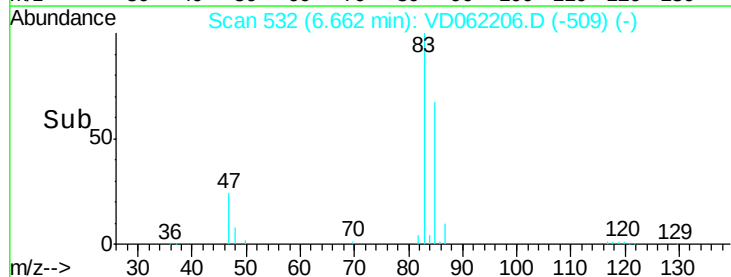
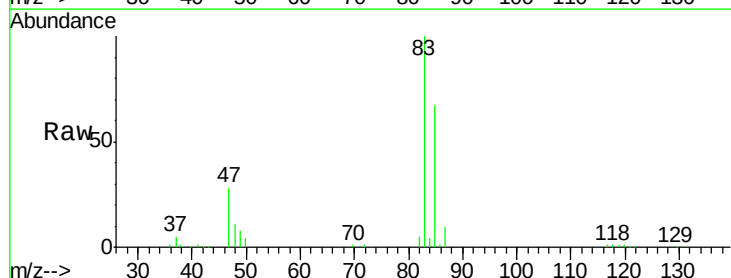
Manual Integrations
APPROVED

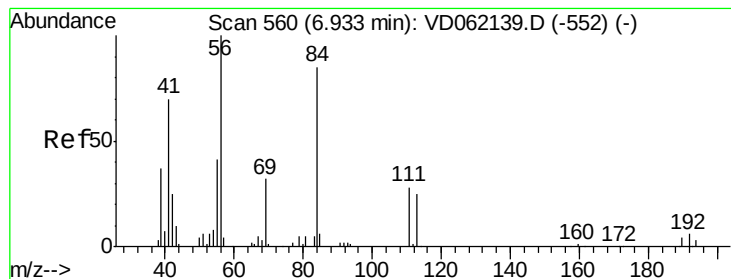
MMDadoda
5/13/2019 4:04:04 AM



#30
Chloroform
Concen: 47.364 ug/l
RT: 6.66 min Scan# 532
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	67.0		51.7	77.5





#31

Cyclohexane

Concen: 48.882 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

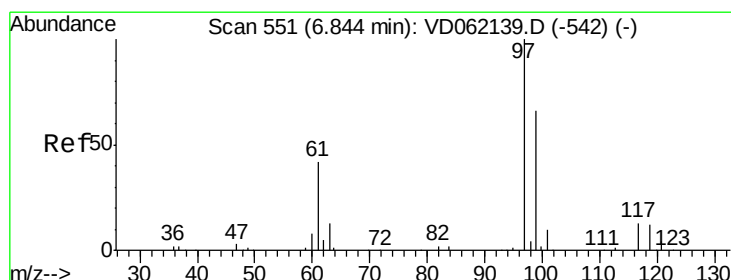
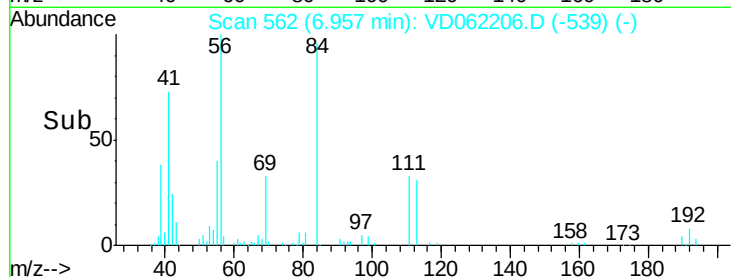
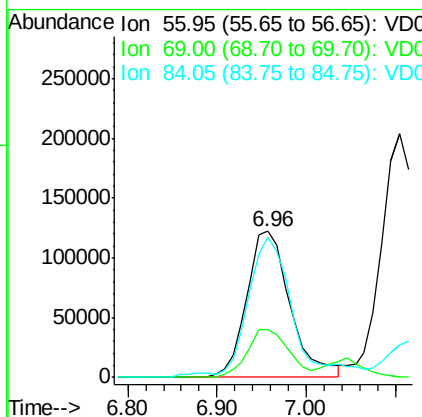
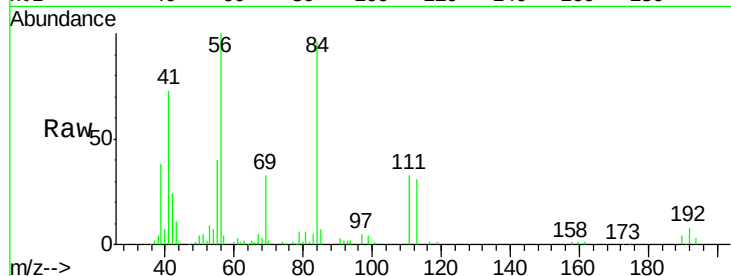
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	411637
Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.8	38.6
84	96.1	72.2	108.4

Manual Integrations
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MMDadoda
5/13/2019 4:04:04 AM



#32

1,1,1-Trichloroethane

Concen: 48.337 ug/l

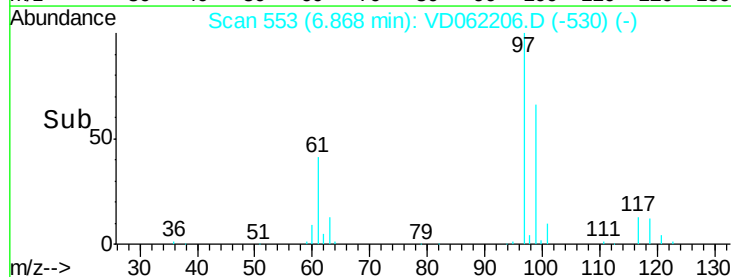
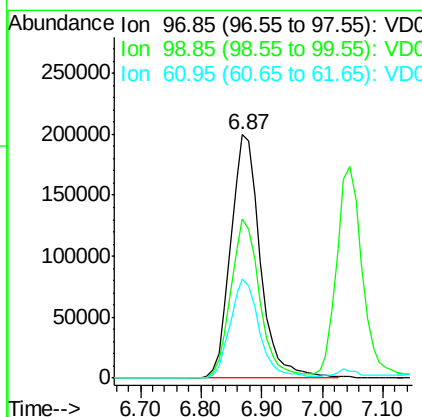
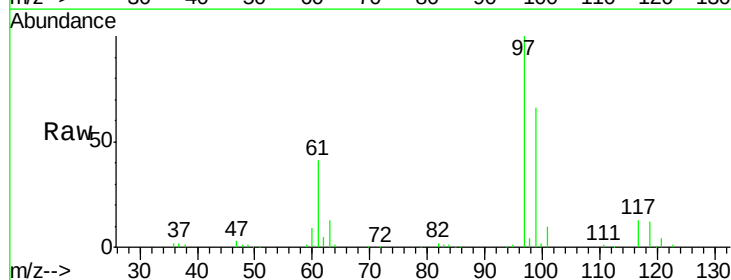
RT: 6.87 min Scan# 553

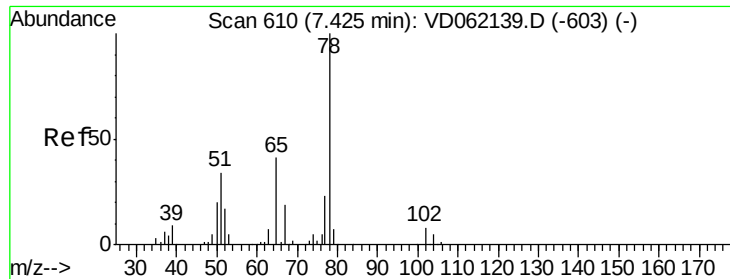
Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	97	Resp:	676788
Ion	Ratio	Lower	Upper
97	100		
99	65.6	52.2	78.2
61	40.6	32.4	48.6





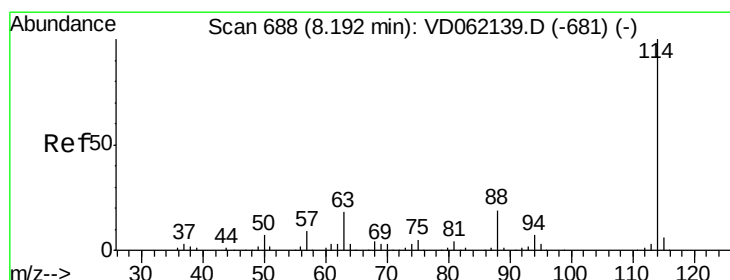
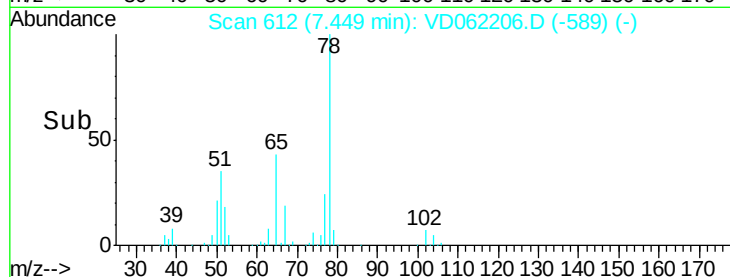
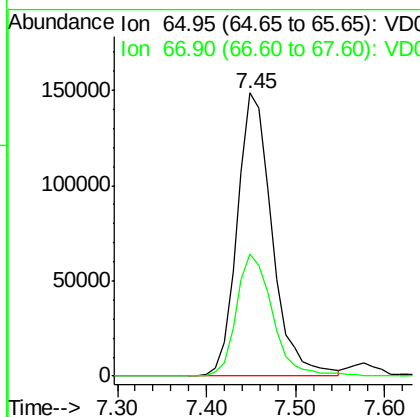
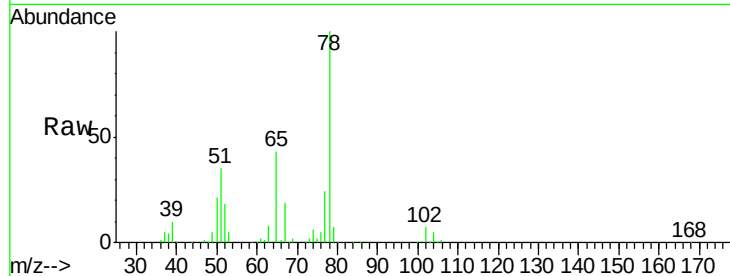
#33
 1,2-Dichloroethane-d4
 Concen: 50.285 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 65 Resp: 403593
 Ion Ratio Lower Upper
 65 100
 67 43.3 0.0 98.0

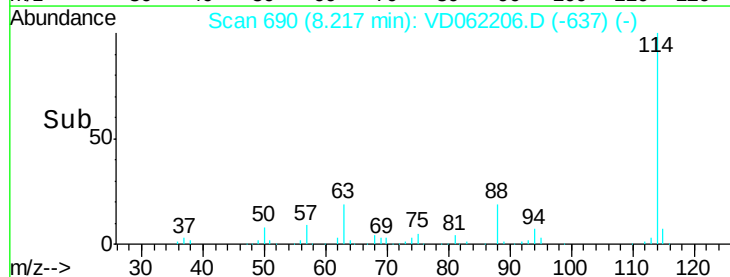
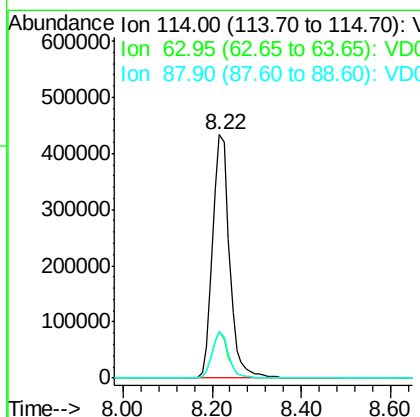
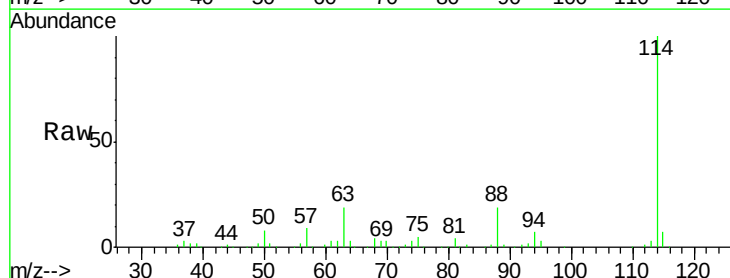
Manual Integrations
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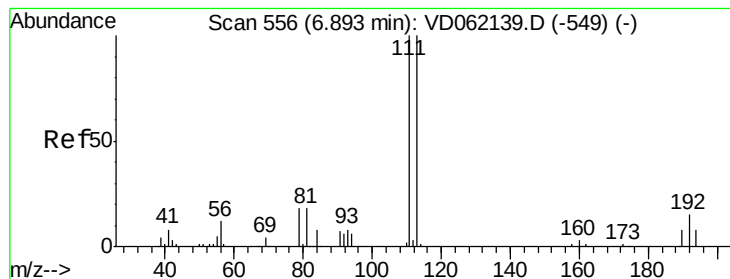
MMDadoda
 5/13/2019 4:04:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion: 114 Resp: 1144021
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 32.4
 88 19.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.600 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:113 Resp: 489789

Ion Ratio Lower Upper

113 100

111 102.7 78.5 117.7

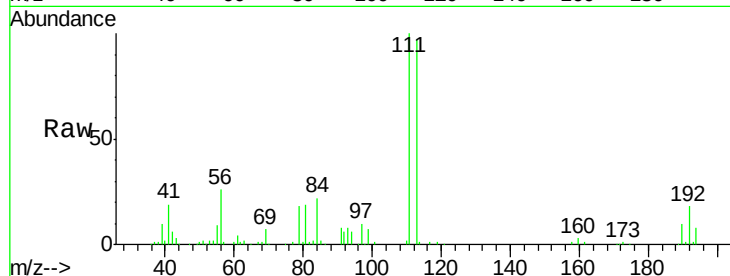
192 18.4 13.0 19.4

Manual Integrations

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MMDadoda

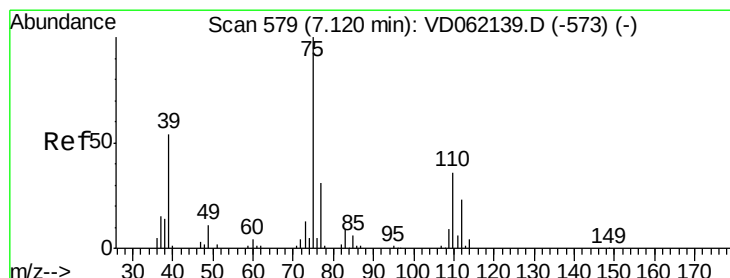
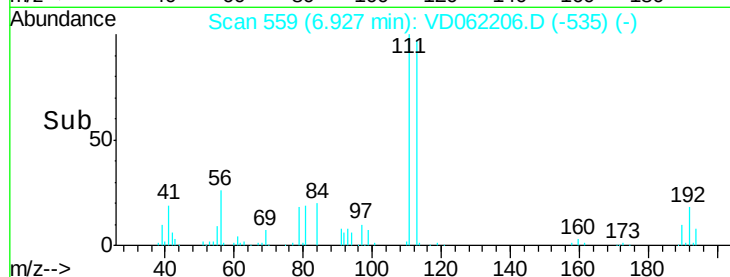
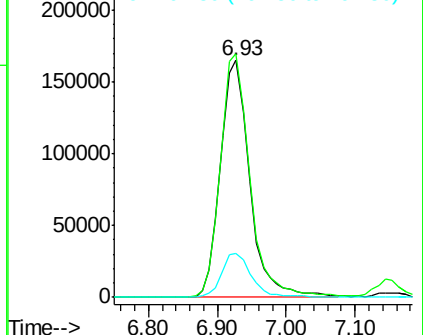
5/13/2019 4:04:04 AM



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 51.281 ug/l

RT: 7.14 min Scan# 581

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

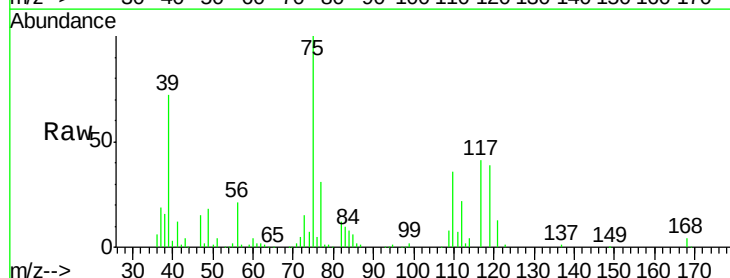
Tgt Ion: 75 Resp: 481015

Ion Ratio Lower Upper

75 100

110 35.7 19.1 57.1

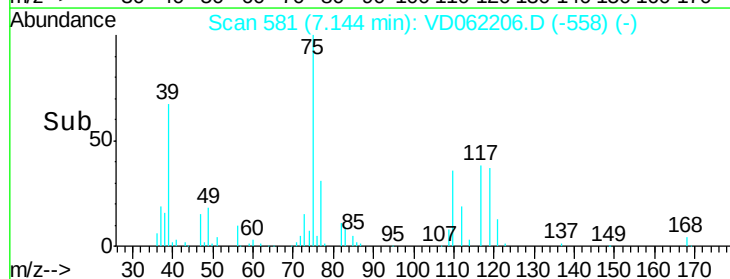
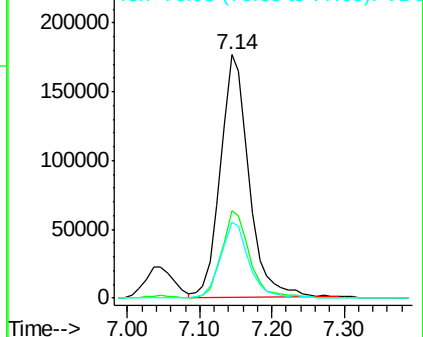
77 31.0 25.6 38.4

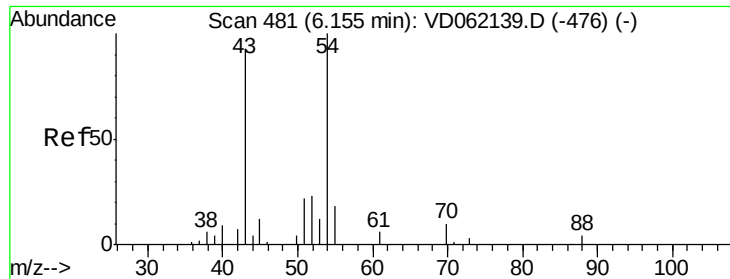


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





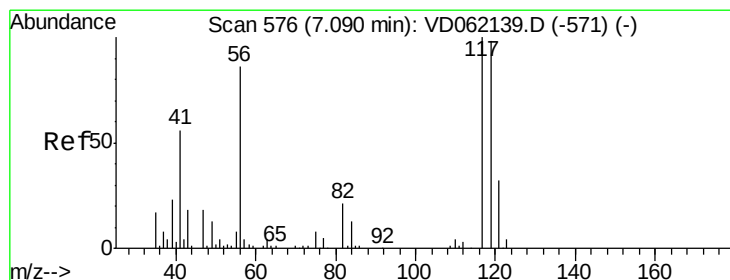
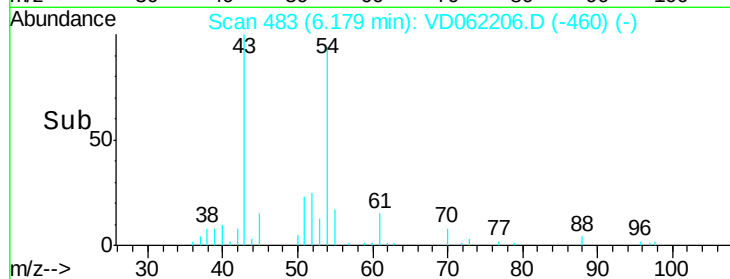
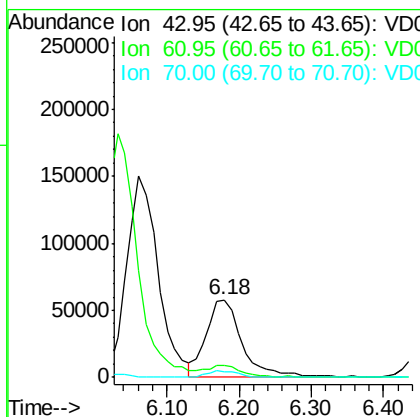
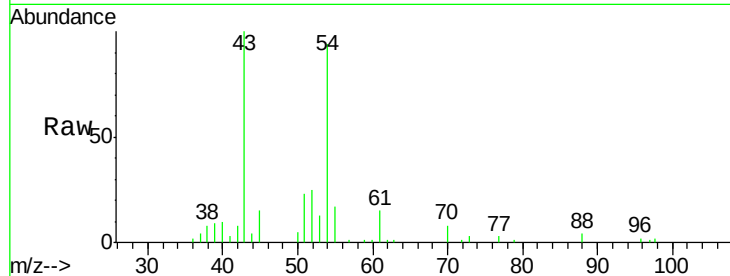
#37
Ethyl Acetate
Concen: 48.299 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	14.7	22.1#
70	7.8	7.8	11.6

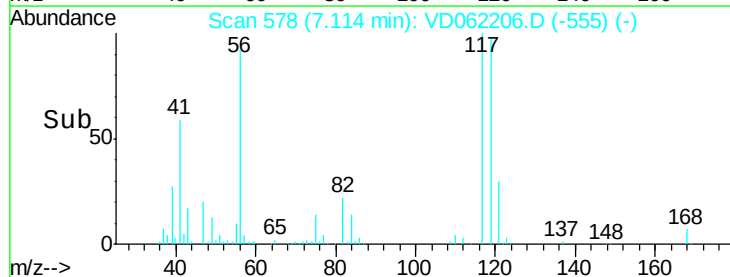
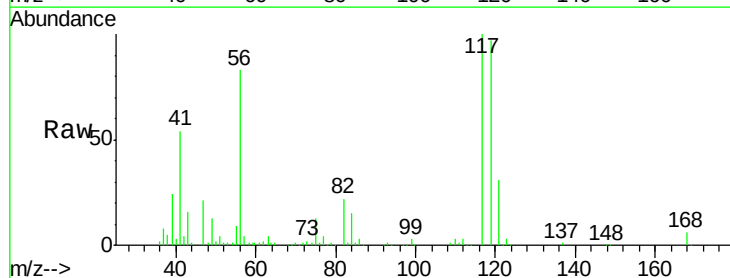
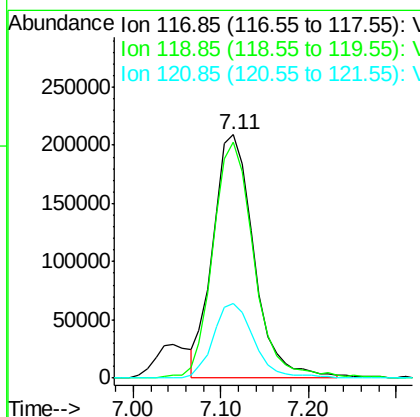
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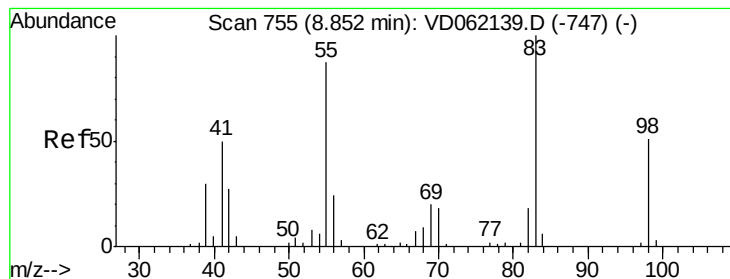
MMDadoda
5/13/2019 4:04:04 AM



#38
Carbon Tetrachloride
Concen: 52.590 ug/l m
RT: 7.11 min Scan# 578
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.8	113.8
121	30.7	25.9	38.9





#39

Methylvlcyclohexane

Concen: 50.639 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 455093

Ion Ratio Lower Upper

83 100

55 84.3 68.2 102.4

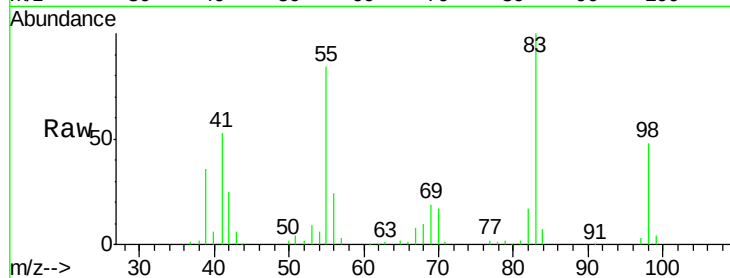
98 48.5 38.2 57.4

Manual Integrations

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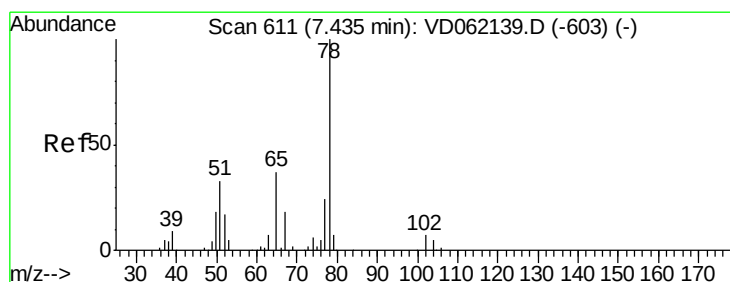
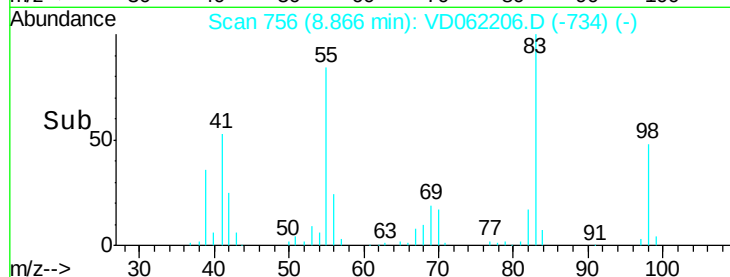
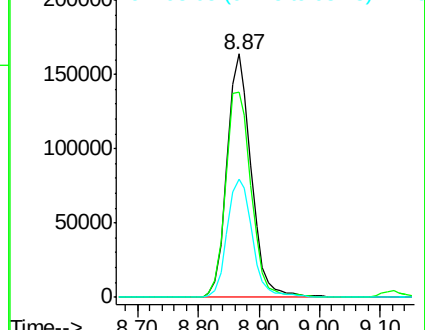
5/13/2019 4:04:04 AM



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: 48.388 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD062206.D

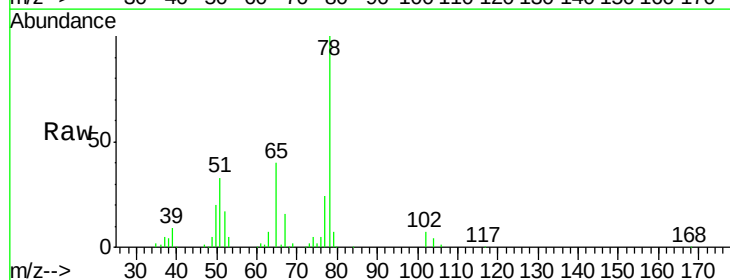
Acq: 10 May 2019 10:32

Tgt Ion: 78 Resp: 1024903

Ion Ratio Lower Upper

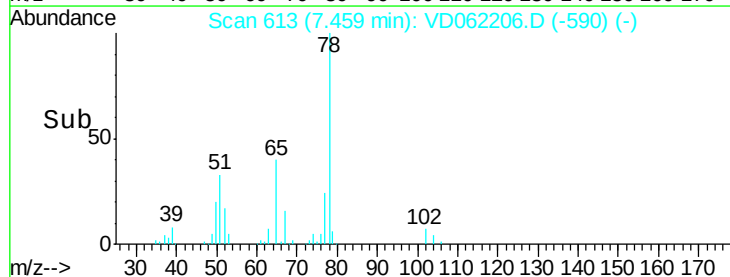
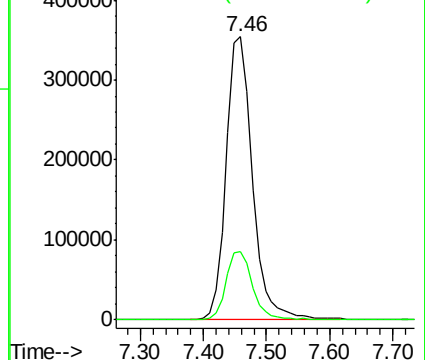
78 100

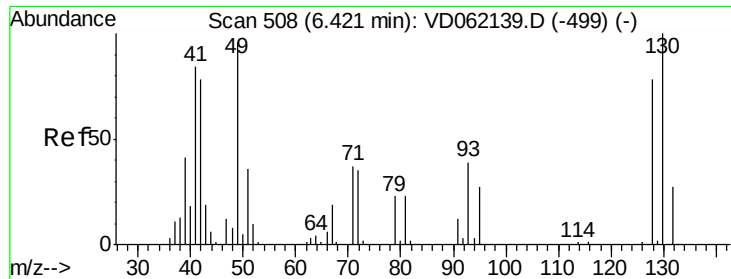
77 24.3 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





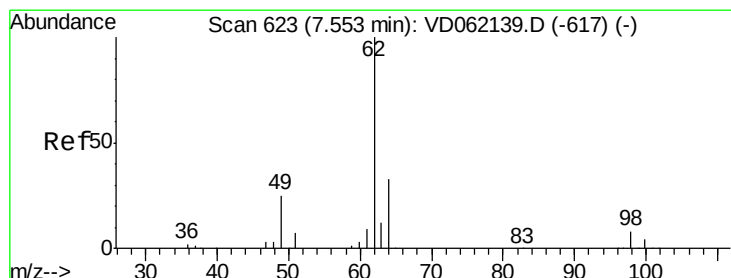
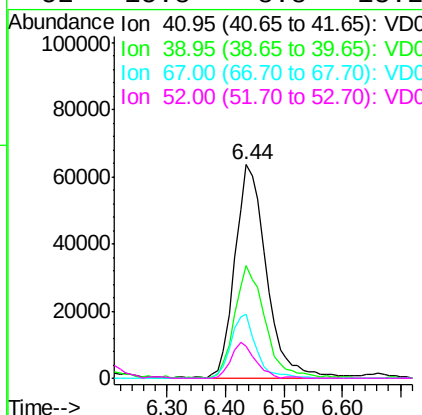
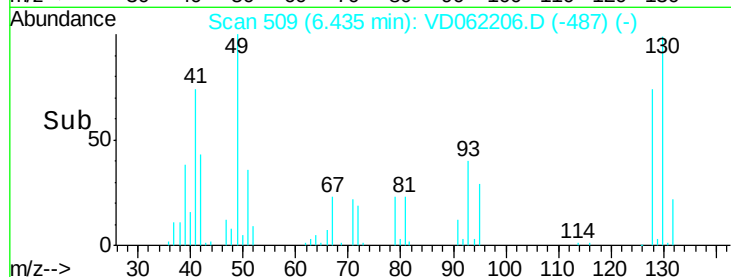
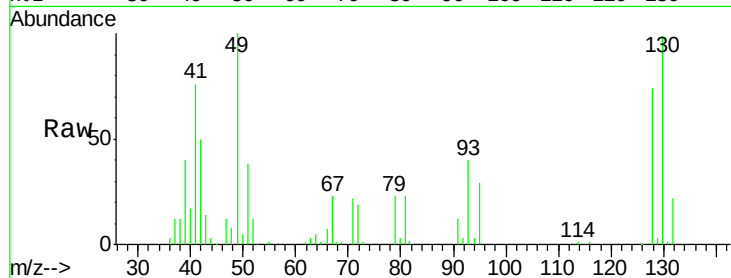
#41
Methacrylonitrile
Concen: 49.424 ug/l
RT: 6.44 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	52.5	34.1	51.1#	
67	30.2	23.8	35.6	
52	15.8	8.8	13.2#	

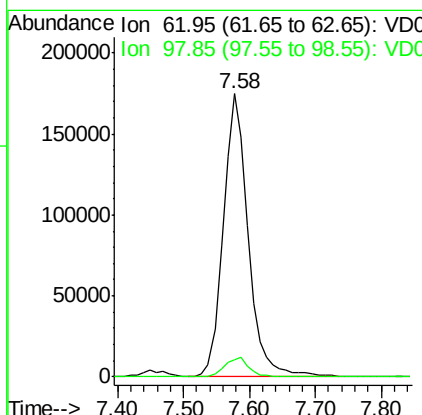
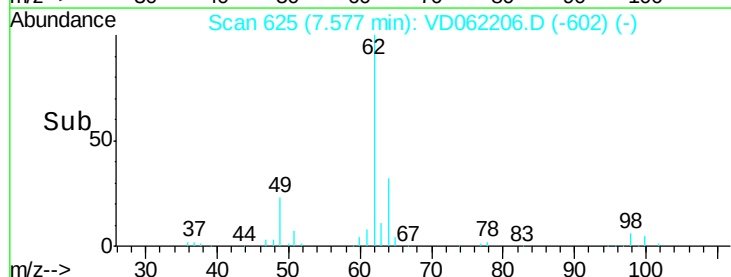
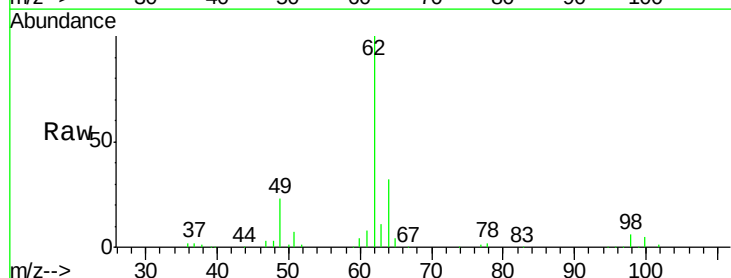
Manual Integrations
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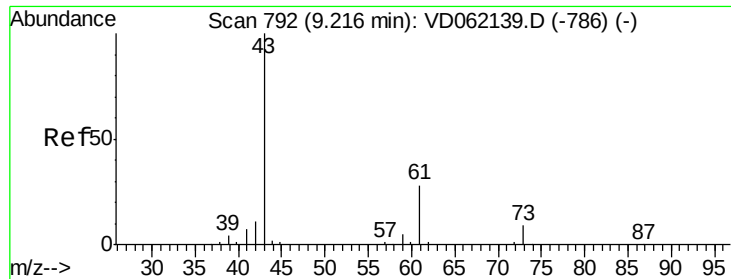
MMDadoda
5/13/2019 4:04:04 AM



#42
1,2-Dichloroethane
Concen: 51.501 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	6.0	0.0	17.8	





#43

Isopropyl Acetate

Concen: 49.408 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

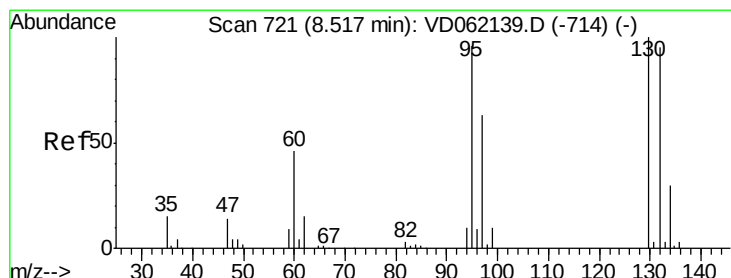
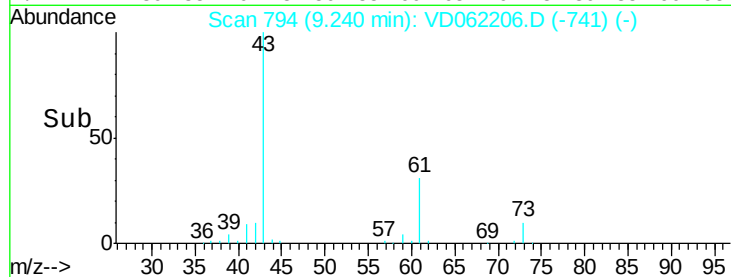
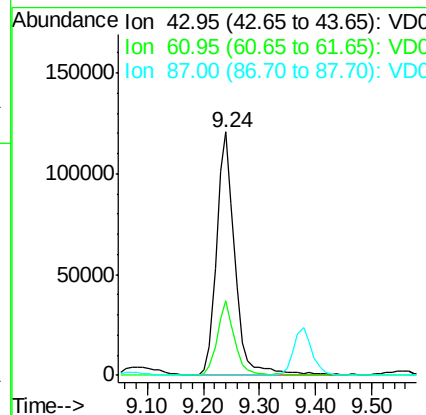
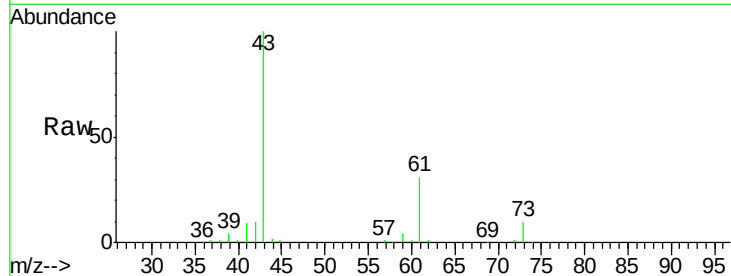
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	278738
Ion	Ratio	Lower	Upper
43	100		
61	30.5	25.1	37.7
87	0.0	0.0	0.0

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#44

Trichloroethene

Concen: 50.432 ug/l

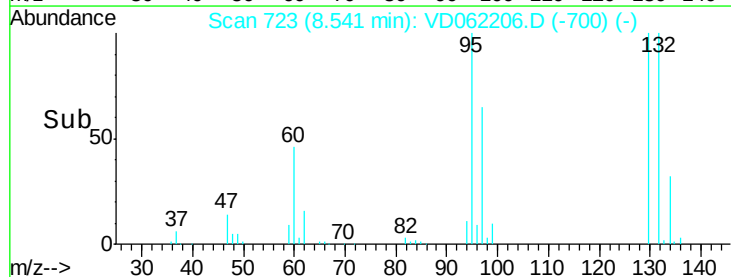
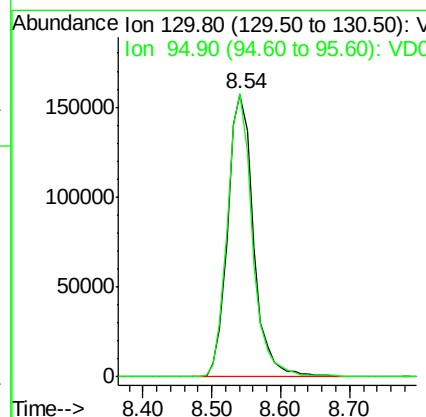
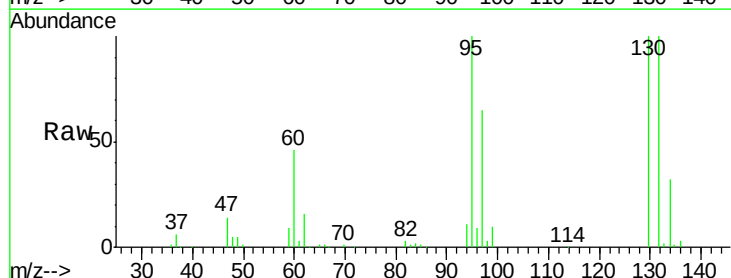
RT: 8.54 min Scan# 723

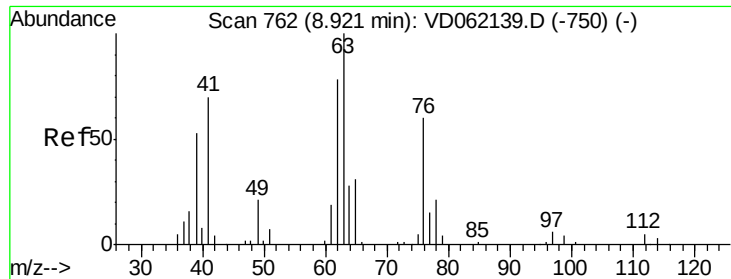
Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	130	Resp:	407042
Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	174.0





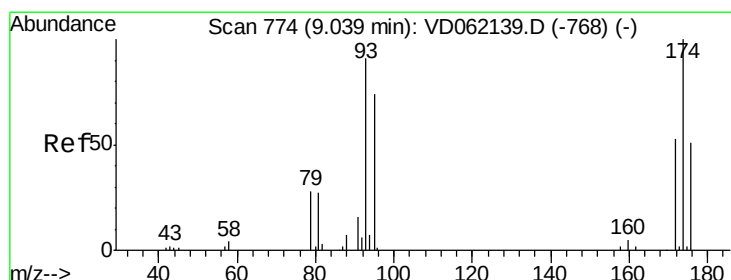
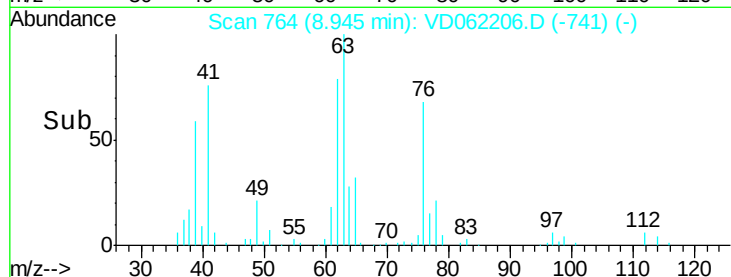
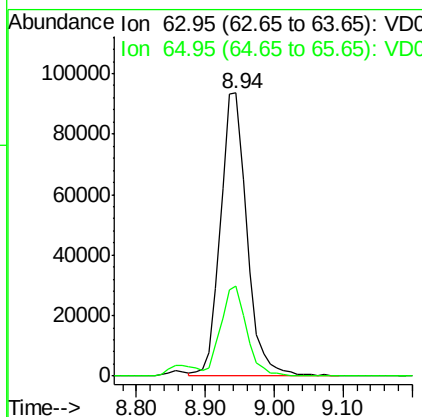
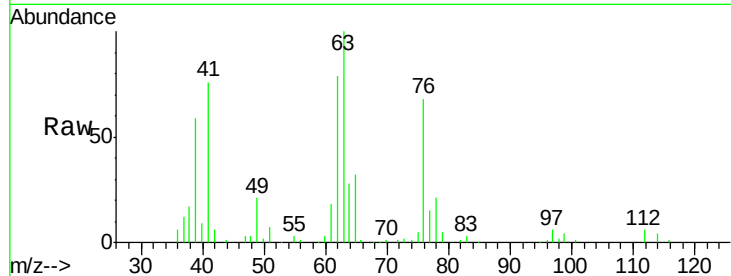
#45
 1,2-Dichloropropane
 Concen: 47.617 ug/l
 RT: 8.94 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 249469
 Ion Ratio Lower Upper
 63 100
 65 31.9 23.8 35.6

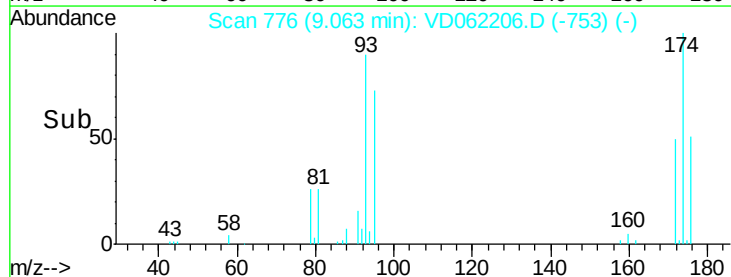
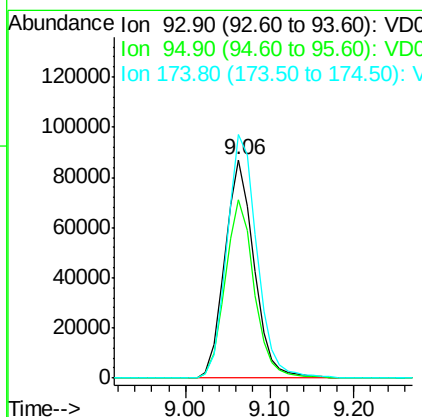
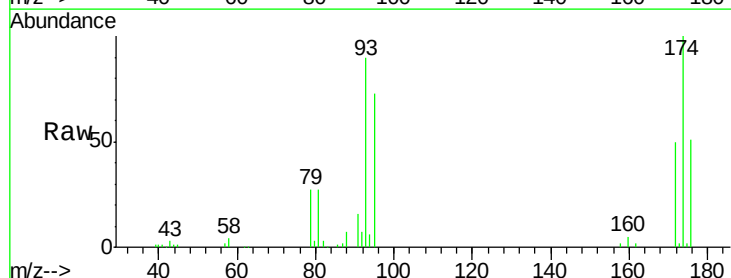
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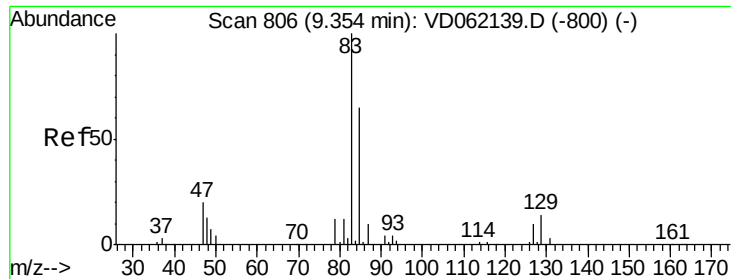
MMDadoda
 5/13/2019 4:04:04 AM



#46
 Dibromomethane
 Concen: 49.322 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. 0.02 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion: 93 Resp: 210132
 Ion Ratio Lower Upper
 93 100
 95 81.7 64.8 97.2
 174 111.5 79.3 118.9





#47

Bromodichloromethane

Concen: 50.778 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

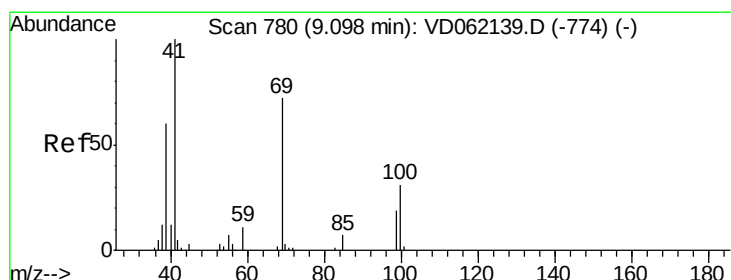
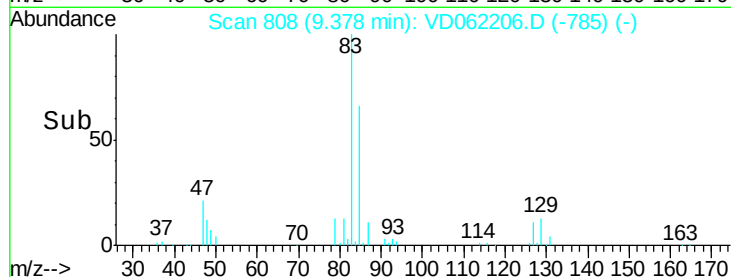
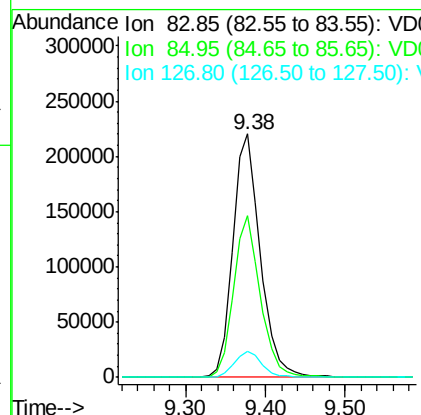
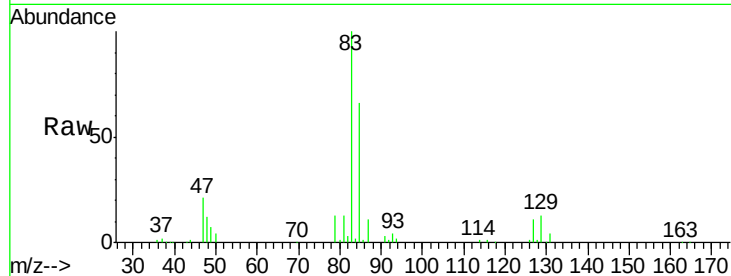
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	529160
Ion Ratio	Lower	Upper	
83	100		
85	66.4	50.9	76.3
127	10.7	8.1	12.1

Manual Integrations
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MMDadoda
5/13/2019 4:04:04 AM



#48

Methyl methacrylate

Concen: 48.345 ug/l

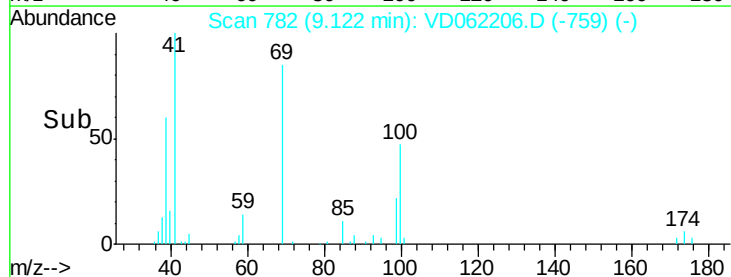
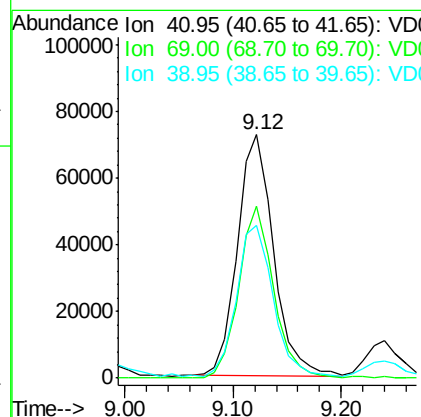
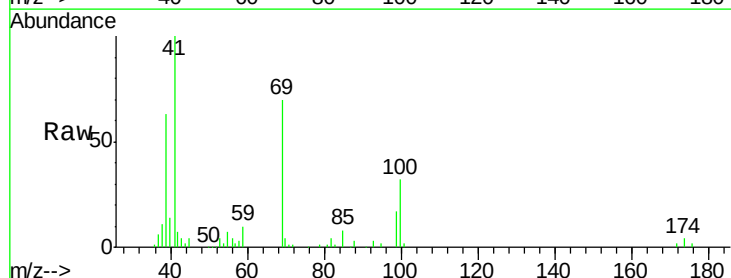
RT: 9.12 min Scan# 782

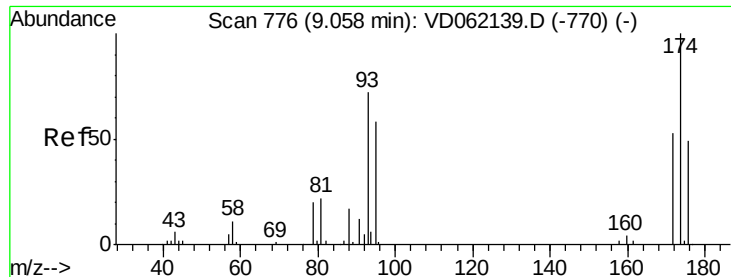
Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	41	Resp:	167998
Ion Ratio	Lower	Upper	
41	100		
69	70.4	64.2	96.2
39	62.9	46.8	70.2





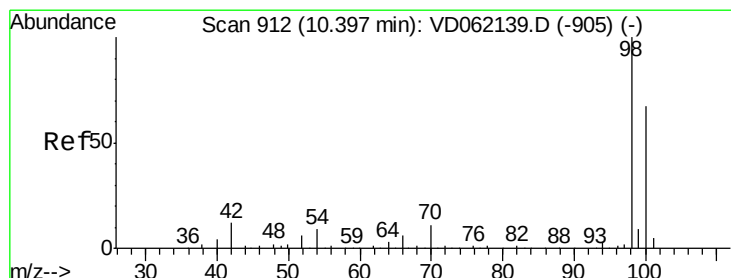
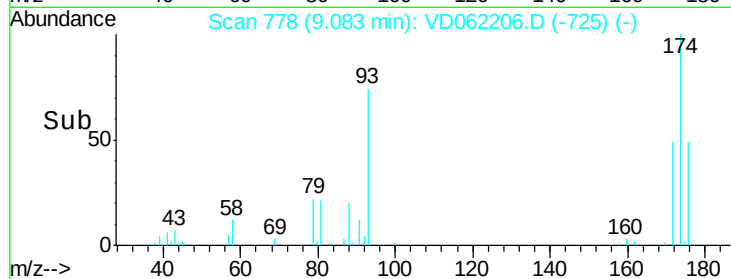
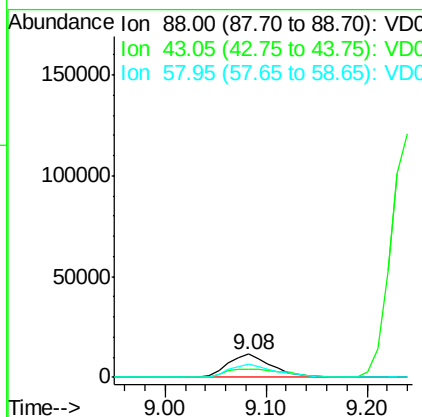
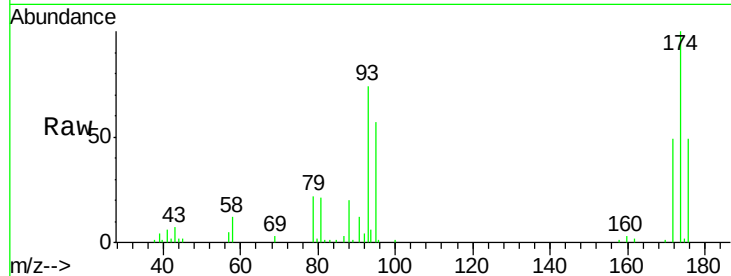
#49
1,4-Dioxane
Concen: 913.876 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.6	23.4	35.0
58	58.5	44.0	66.0

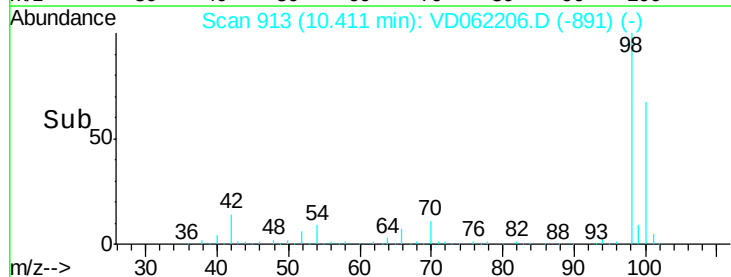
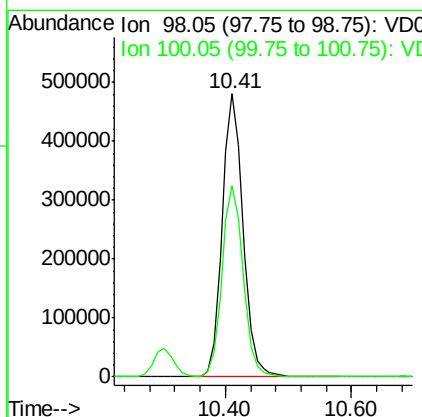
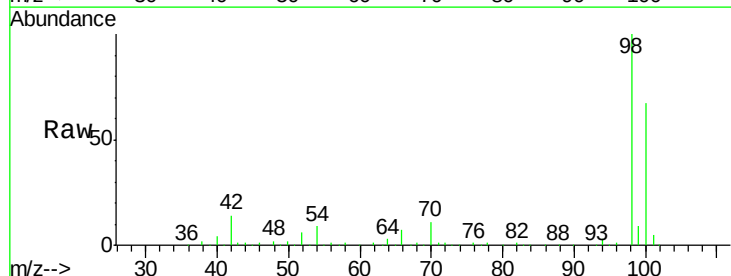
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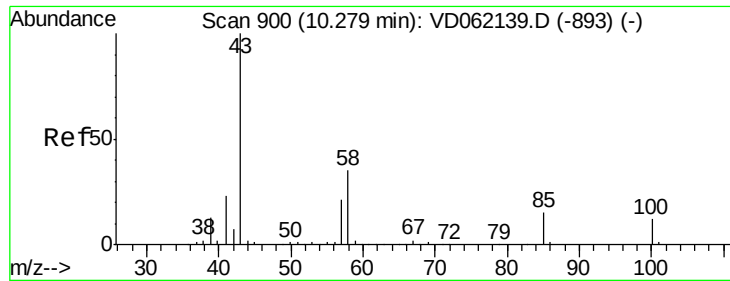
MMDadoda
5/13/2019 4:04:04 AM



#50
Toluene-d8
Concen: 48.540 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 233.477 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 846685

Ion Ratio Lower Upper

43 100

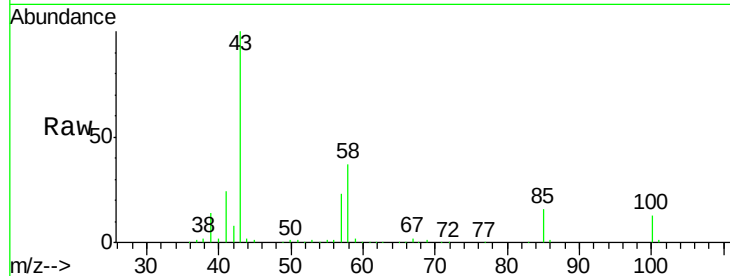
58 36.6 30.4 45.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

400000

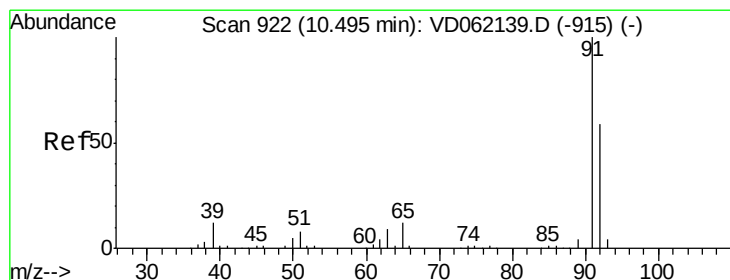
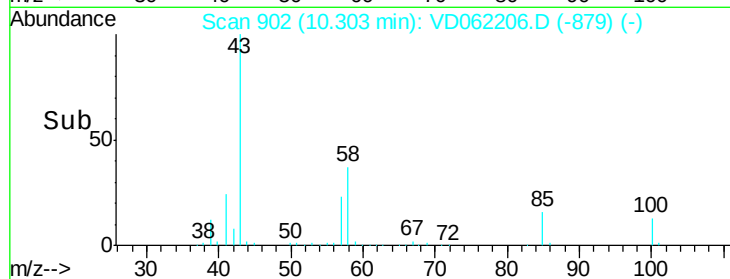
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 47.884 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD062206.D

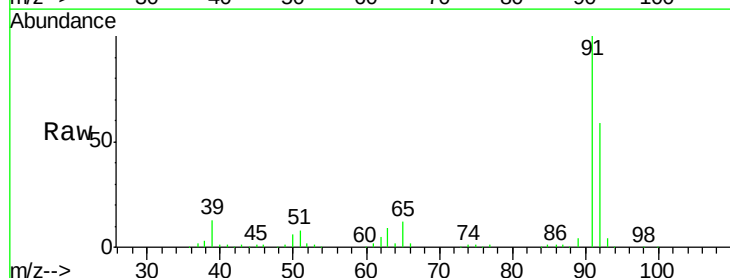
Acq: 10 May 2019 10:32

Tgt Ion: 92 Resp: 659902

Ion Ratio Lower Upper

92 100

91 168.8 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

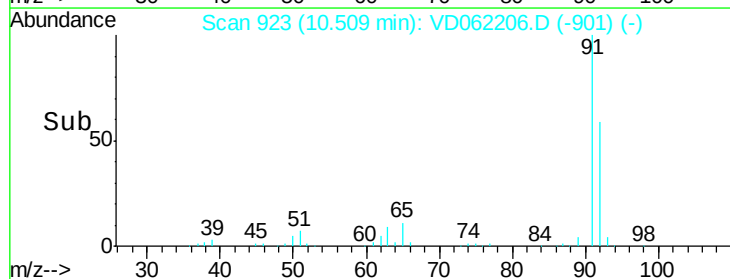
300000

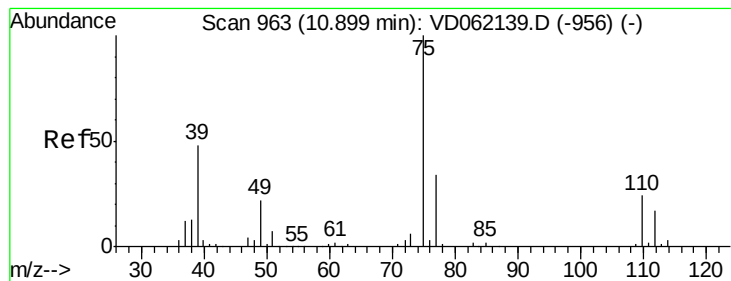
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 51.410 ug/l

RT: 10.91 min Scan# 964

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 463029

Ion Ratio Lower Upper

75 100

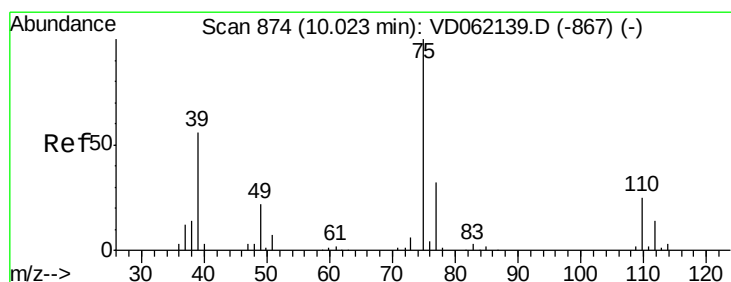
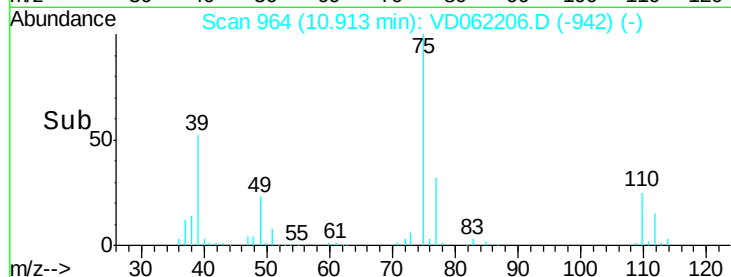
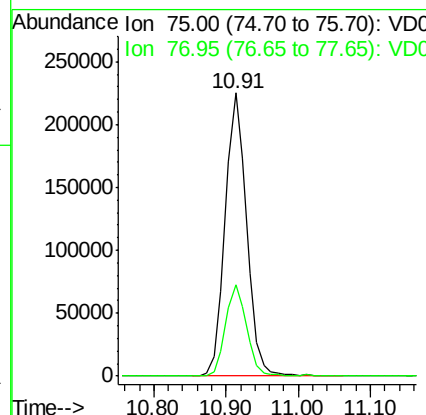
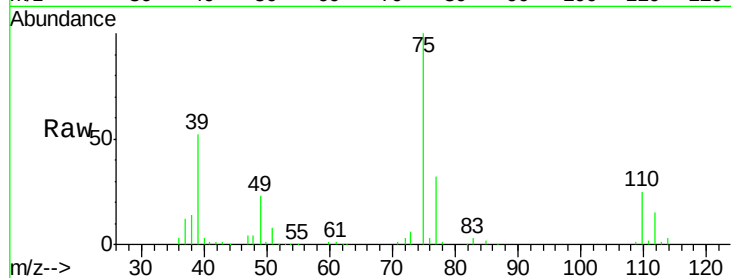
77 32.5 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 51.860 ug/l

RT: 10.04 min Scan# 875

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

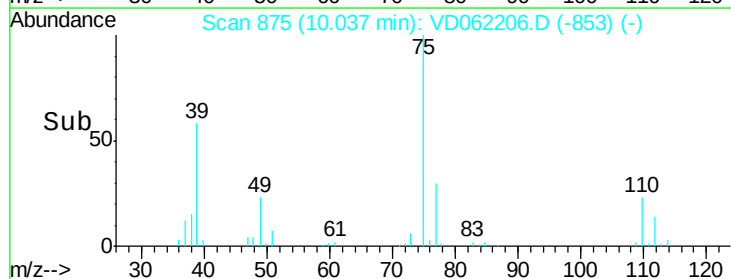
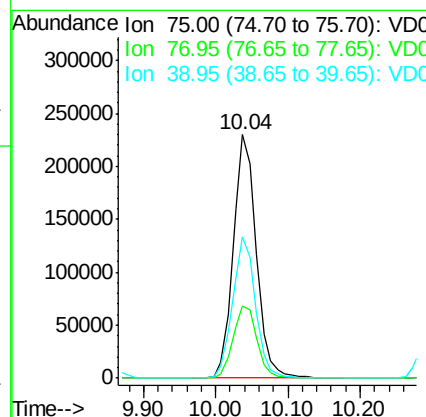
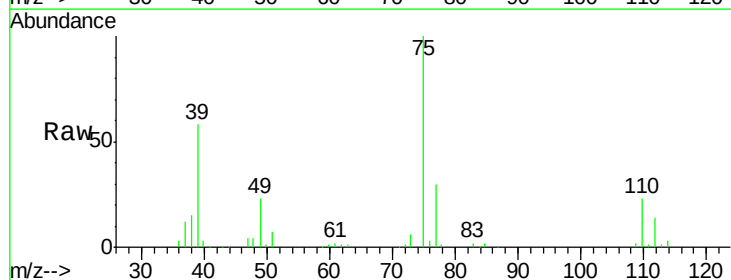
Tgt Ion: 75 Resp: 509560

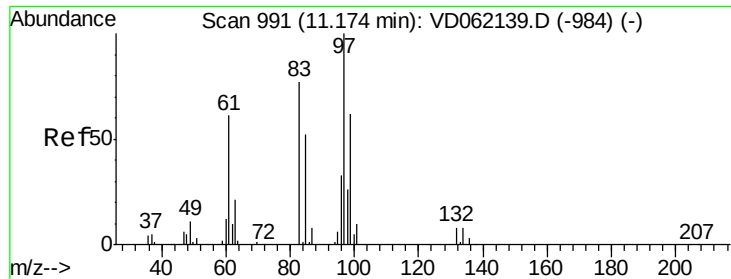
Ion Ratio Lower Upper

75 100

77 29.8 25.5 38.3

39 58.3 39.4 59.2





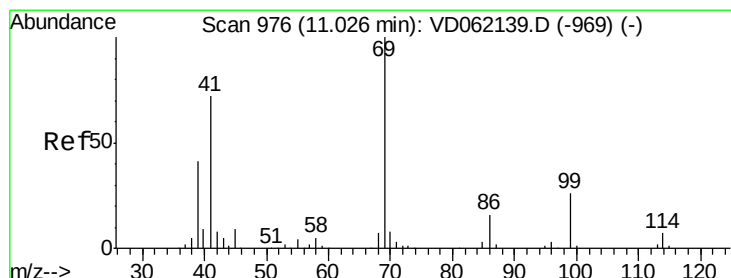
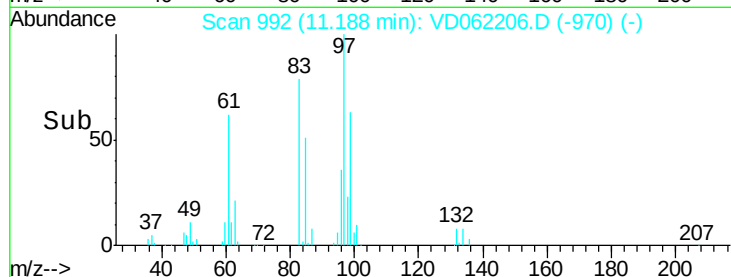
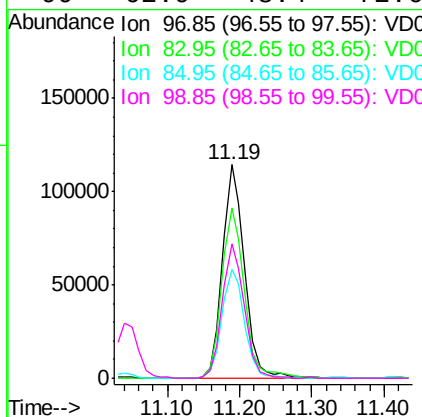
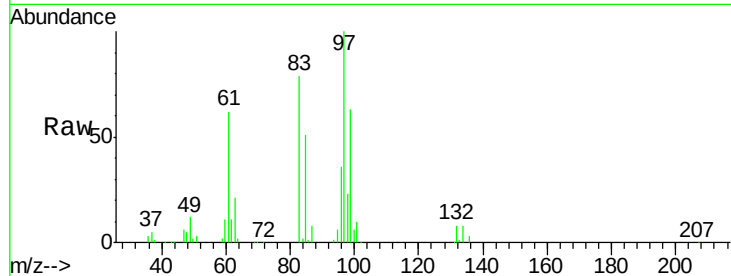
#55
 1,1,2-Trichloroethane
 Concen: 49.364 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		240704		
83	79.5	65.7	98.5		
85	50.9	45.6	68.4		
99	62.9	48.4	72.6		

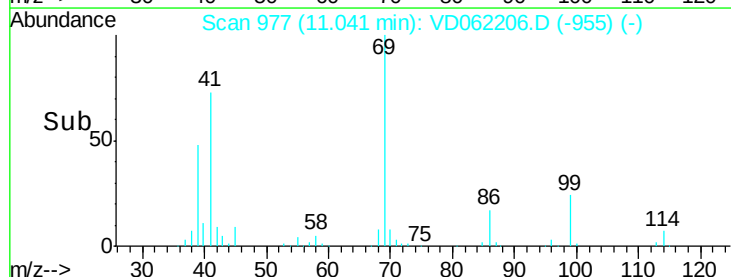
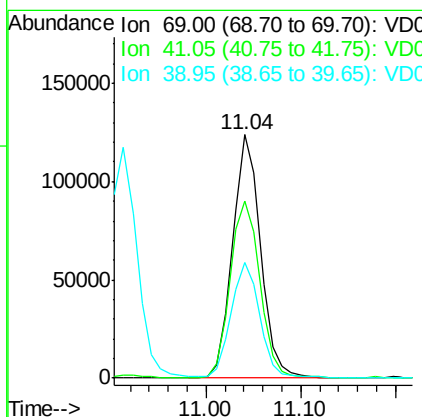
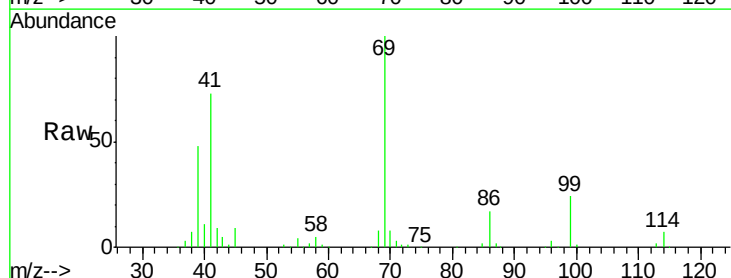
Manual Integrations
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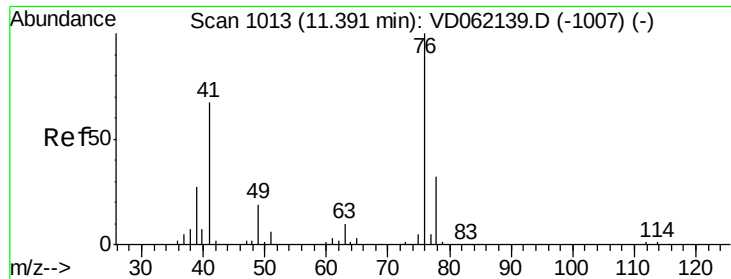
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 50.158 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		254151		
41	72.9	56.3	84.5		
39	47.5	29.4	44.2#		





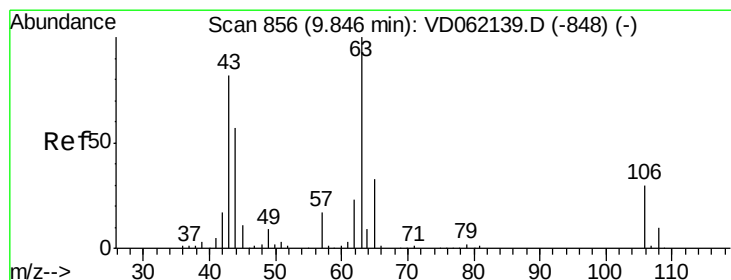
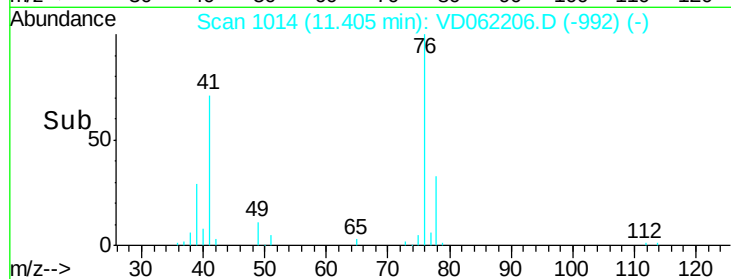
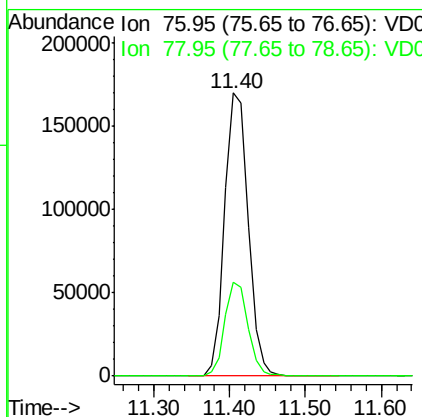
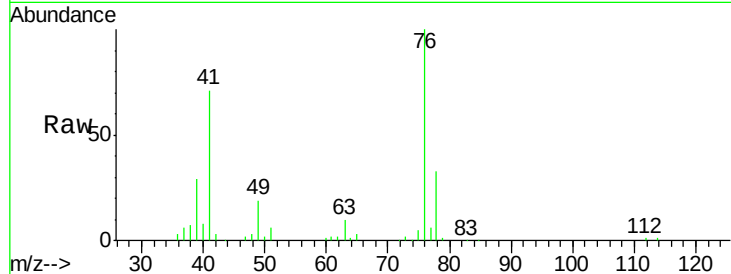
#57
 1,3-Dichloropropane
 Concen: 49.898 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 367578
 Ion Ratio Lower Upper
 76 100
 78 33.1 26.2 39.2

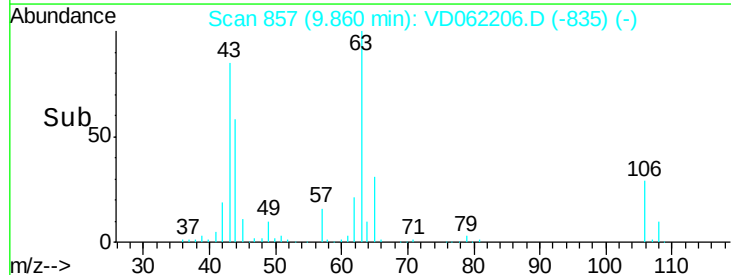
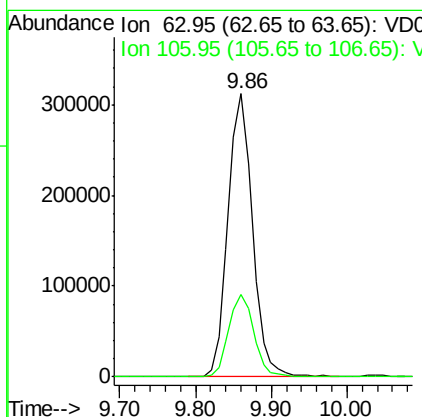
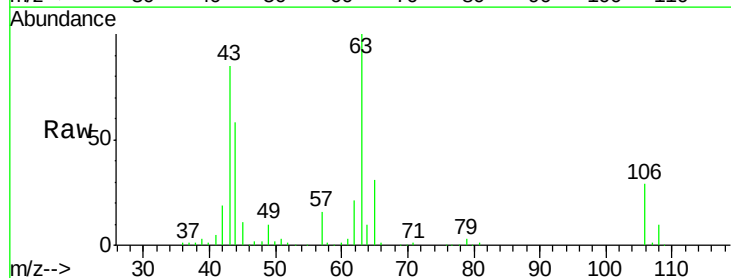
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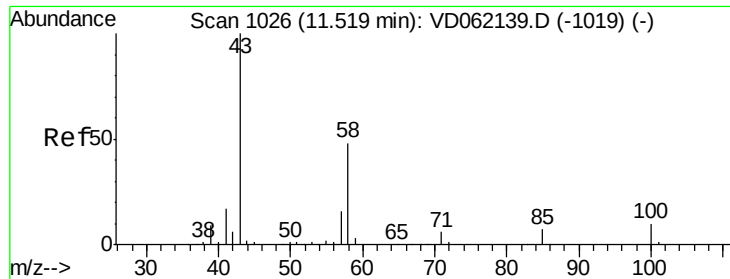
MMDadoda
 5/13/2019 4:04:04 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 252.688 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion: 63 Resp: 699381
 Ion Ratio Lower Upper
 63 100
 106 29.2 22.6 34.0





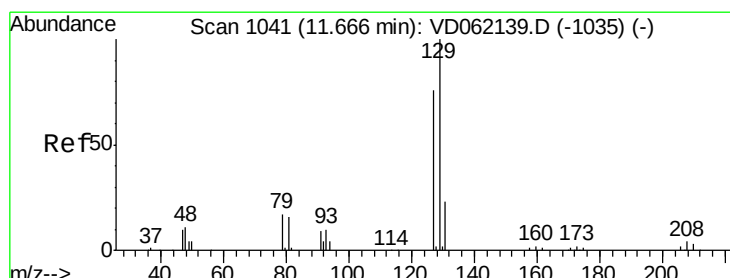
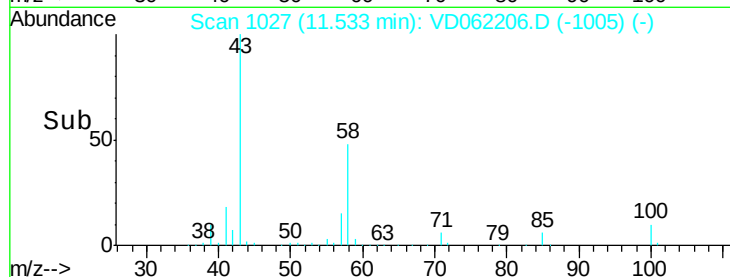
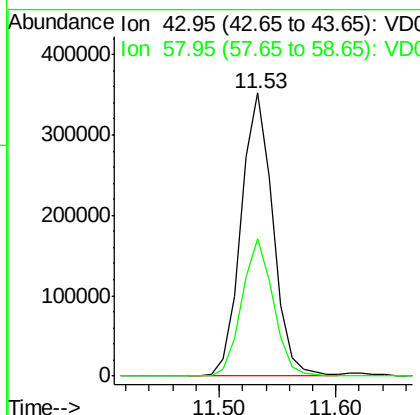
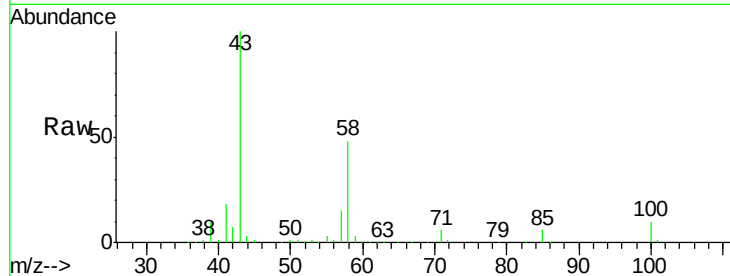
#59
2-Hexanone
Concen: 249.544 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 666984
Ion Ratio Lower Upper
43 100
58 48.4 25.4 76.4

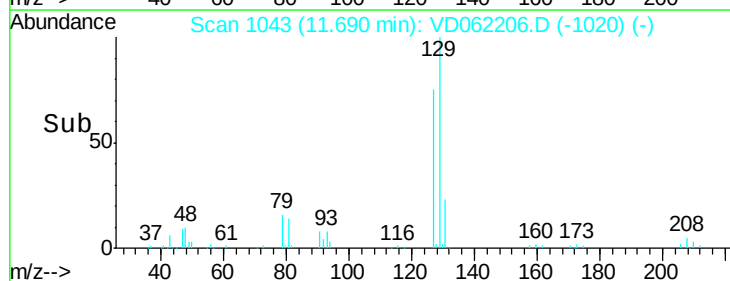
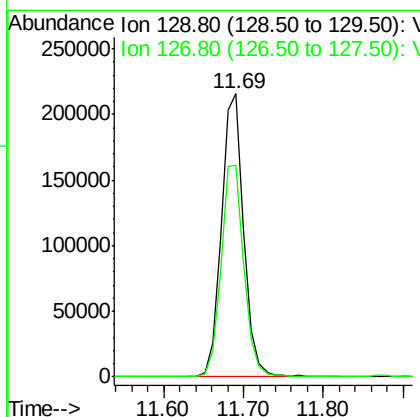
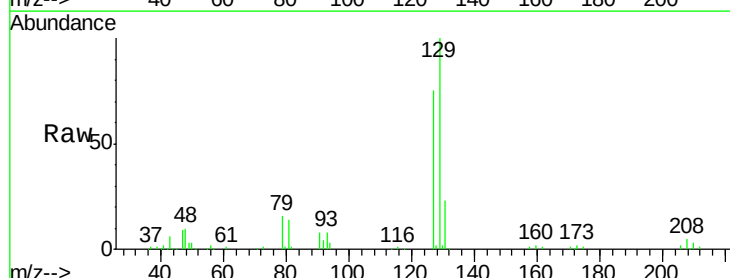
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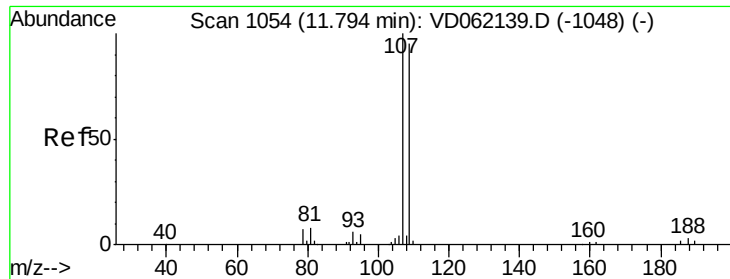
MMDadoda
5/13/2019 4:04:04 AM



#60
Dibromochloromethane
Concen: 50.386 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion: 129 Resp: 424600
Ion Ratio Lower Upper
129 100
127 74.6 38.0 113.9





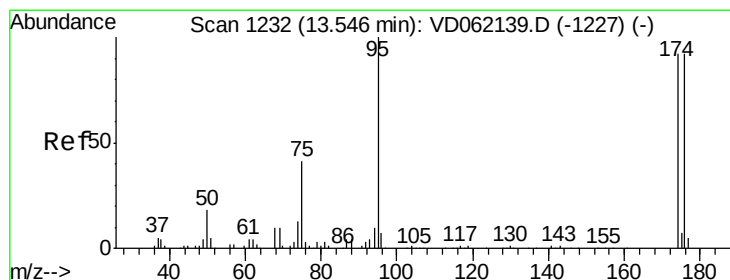
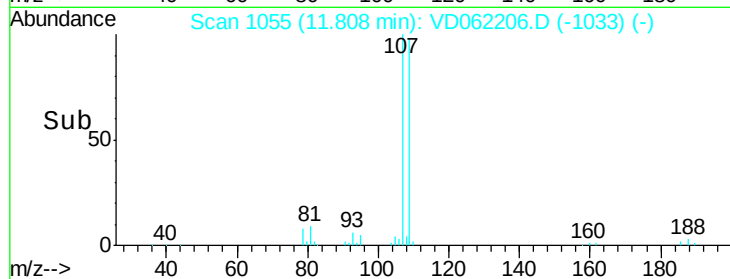
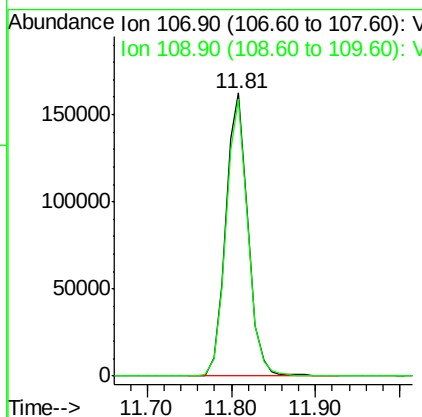
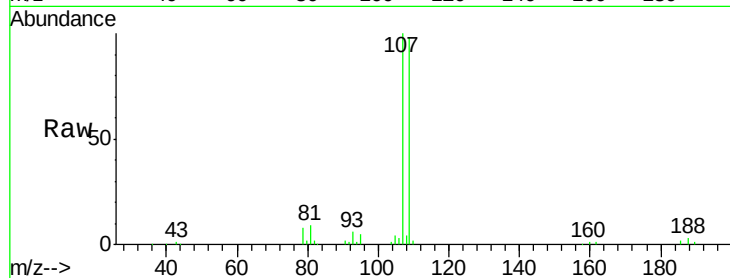
#61
 1,2-Dibromoethane
 Concen: 49.737 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.1	78.3	117.5

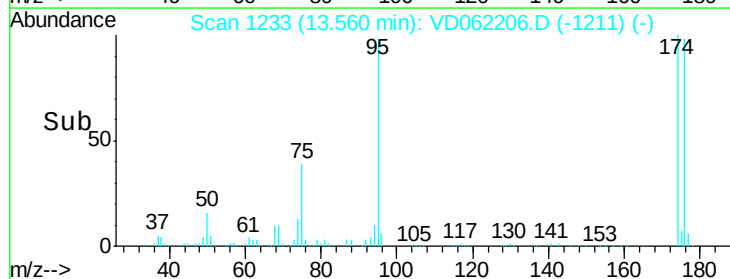
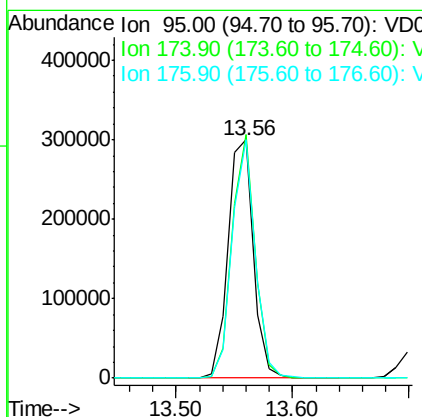
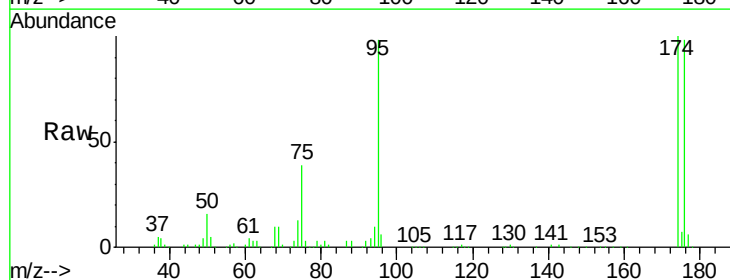
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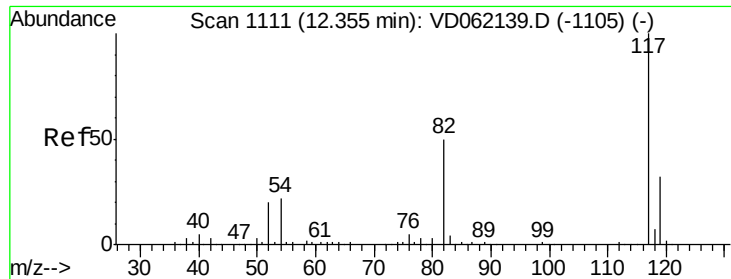
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 49.099 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	102.3	0.0	181.8
176	100.2	0.0	174.4





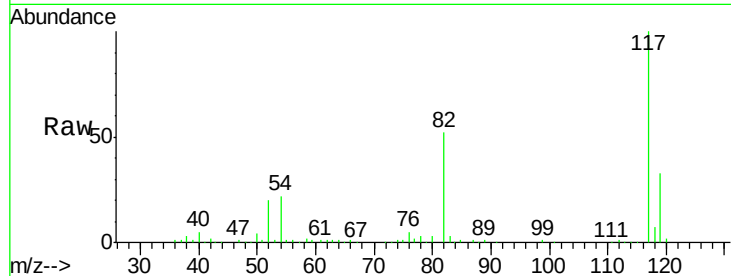
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

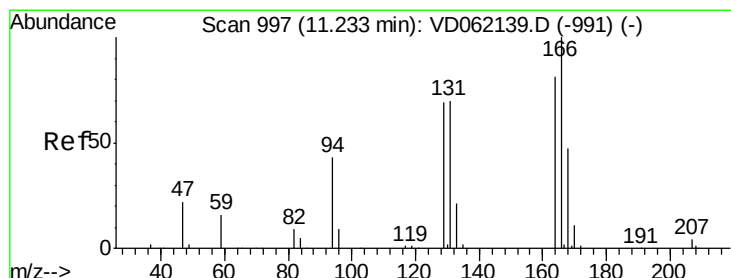
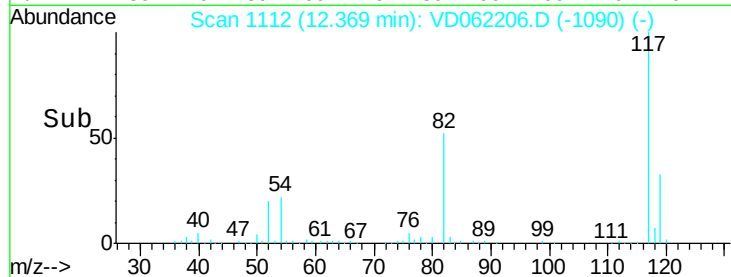
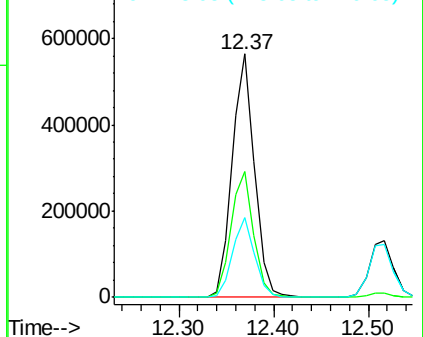
Tot Ion	Ratio	Resp	Lower	Upper
117	100	922862		
82	51.8	36.2	54.2	
119	32.9	26.2	39.4	

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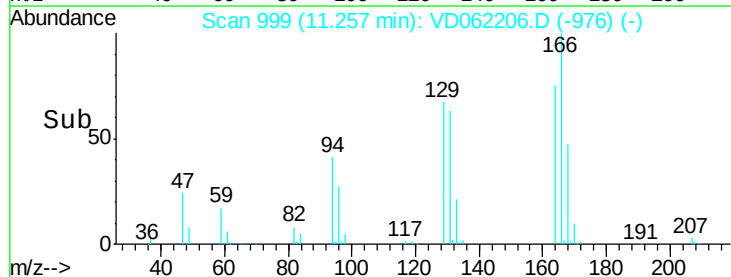
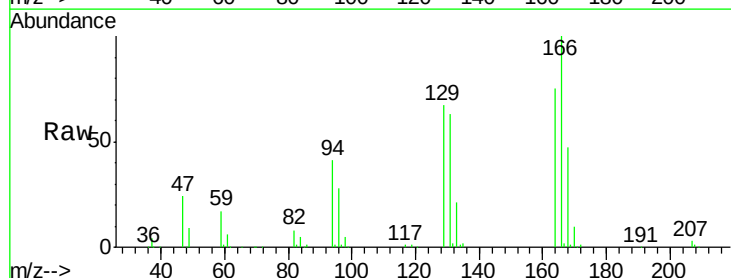
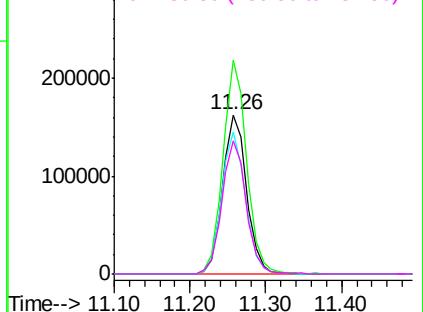
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

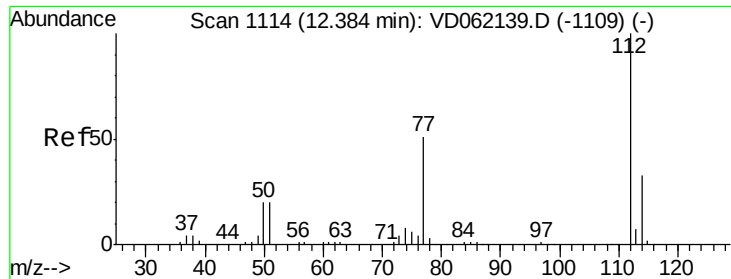


#64
Tetrachloroethene
Concen: 49.615 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.02 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	358044		
166	134.2	101.5	152.3	
129	89.3	74.6	112.0	
131	83.9	72.6	108.8	

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





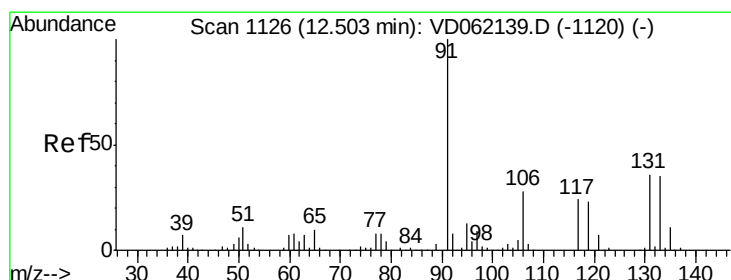
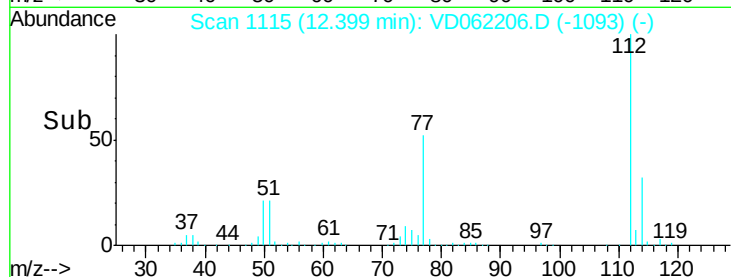
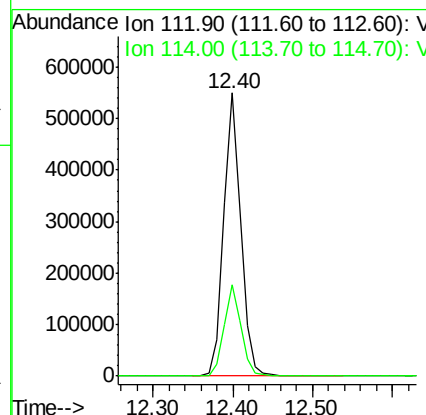
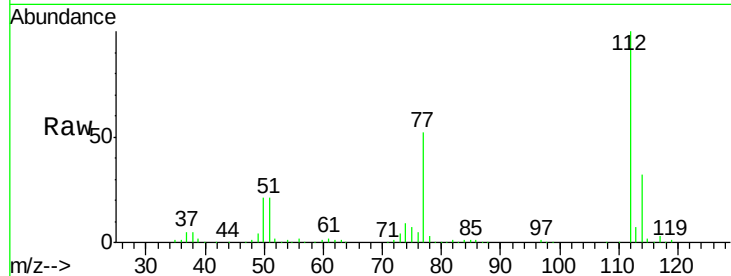
#65
Chlorobenzene
Concen: 48.835 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.8	38.8

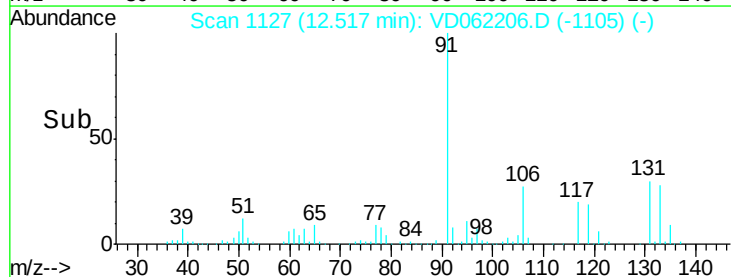
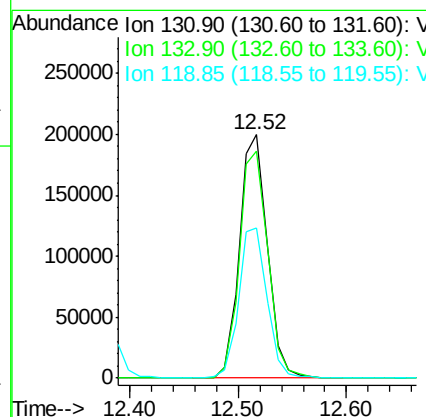
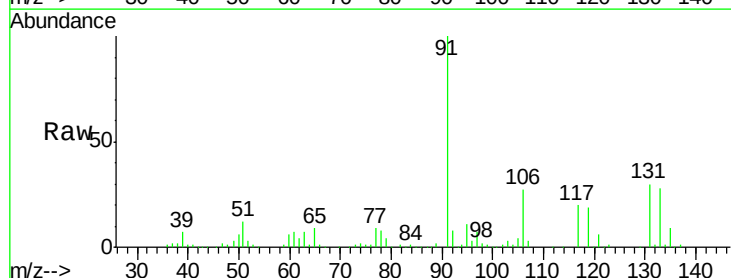
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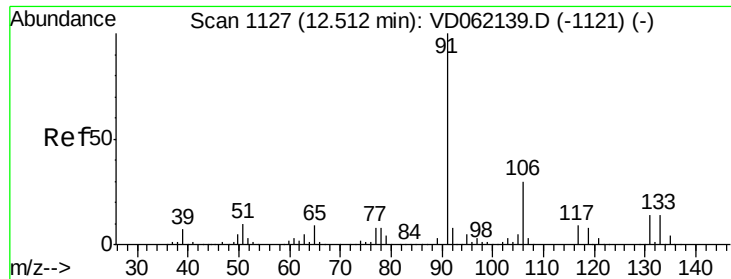
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.792 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.1	48.6	145.8
119	61.9	34.7	104.1





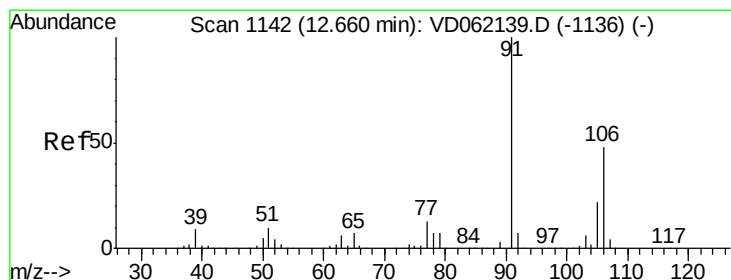
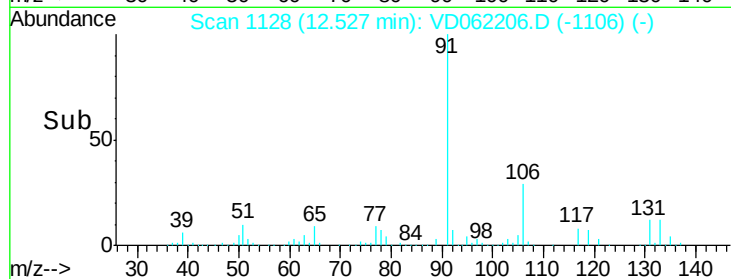
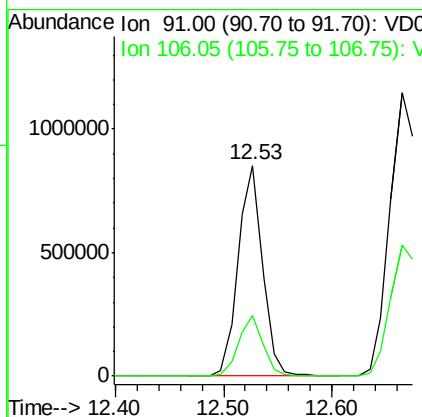
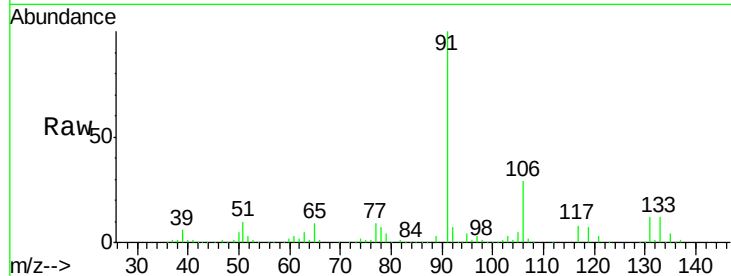
#67
Ethyl Benzene
Concen: 46.334 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1333318
Ion Ratio Lower Upper
91 100
106 28.8 24.7 37.1

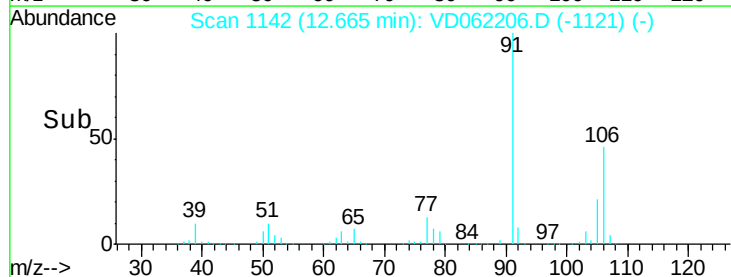
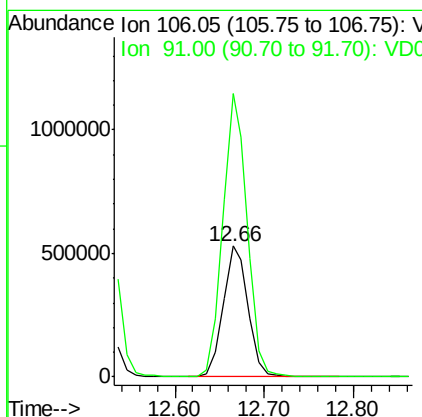
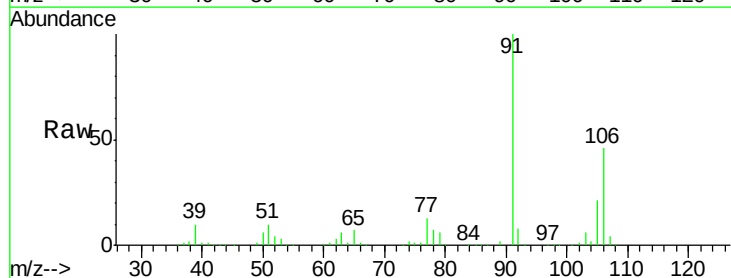
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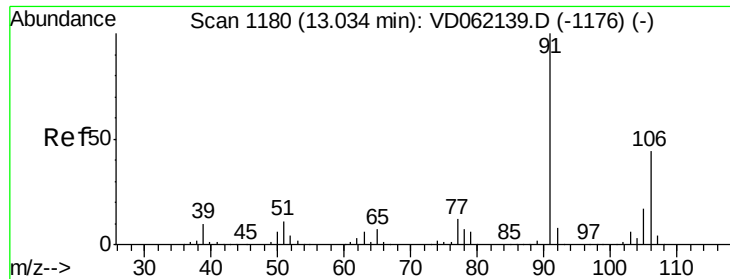
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#68
m/p-Xylenes
Concen: 98.522 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Tgt Ion:106 Resp: 1031469
Ion Ratio Lower Upper
106 100
91 216.7 164.0 246.0





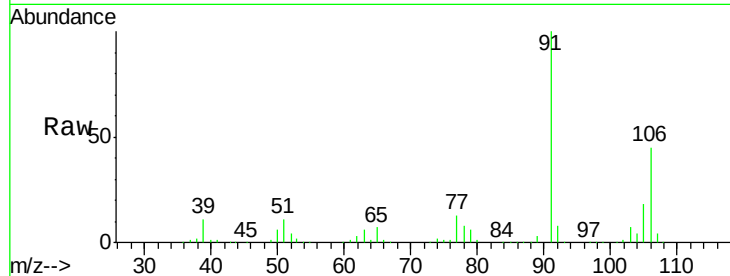
#69
o-Xylene
Concen: 50.569 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

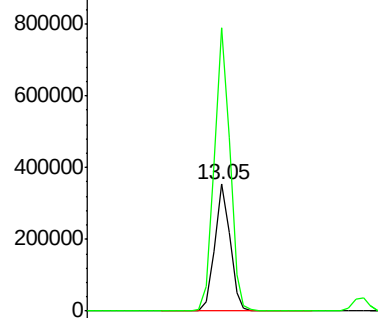
Tot Ion:106 Resp: 492206
Ion Ratio Lower Upper
106 100
91 223.4 106.7 319.9

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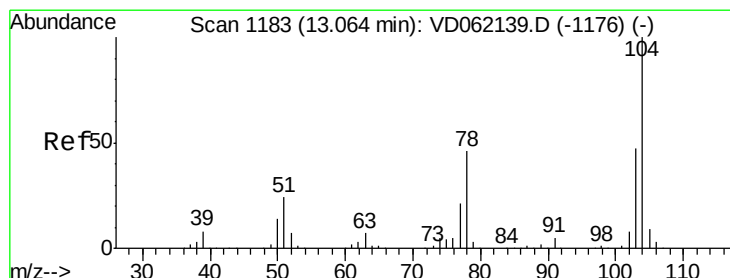
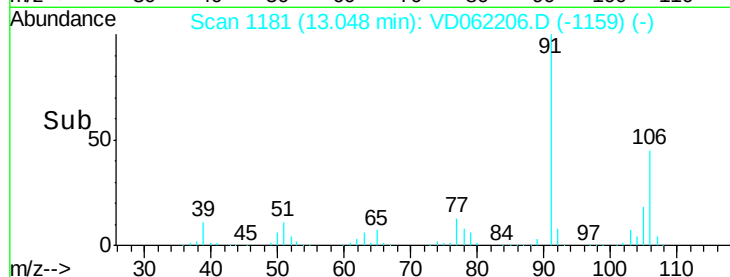
MMDadoda
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Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

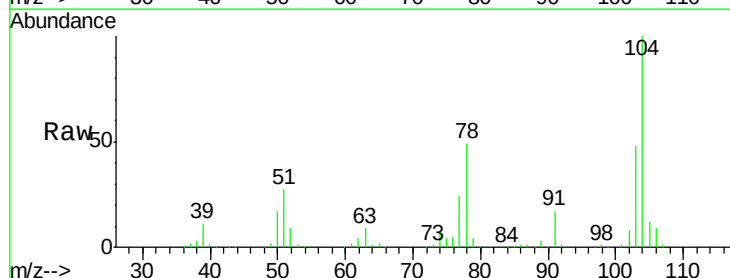


Time-->

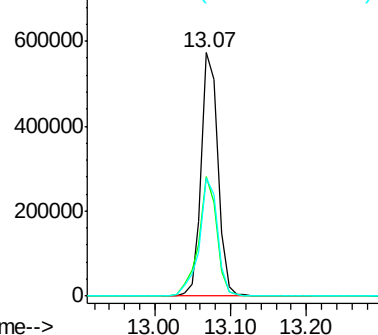


#70
Styrene
Concen: 52.884 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD062206.D
Acq: 10 May 2019 10:32

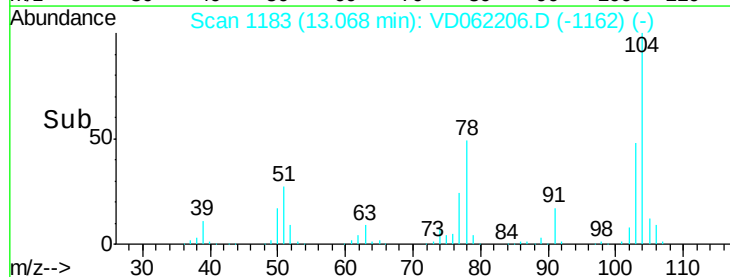
Tgt Ion:104 Resp: 871973
Ion Ratio Lower Upper
104 100
78 49.2 35.4 53.2
103 48.5 37.5 56.3

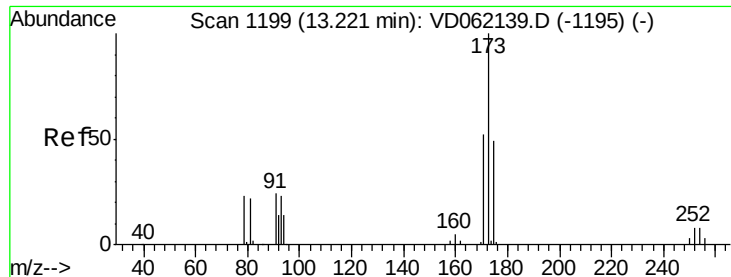


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V



Time-->





#71

Bromoform

Concen: 48.797 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 253967

Ion Ratio Lower Upper

173 100

175 52.2 24.4 73.4

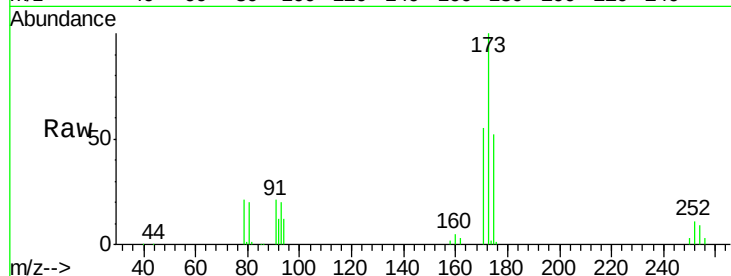
254 8.8 5.4 8.2#

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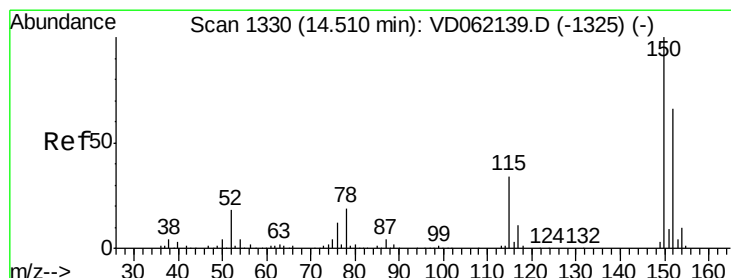
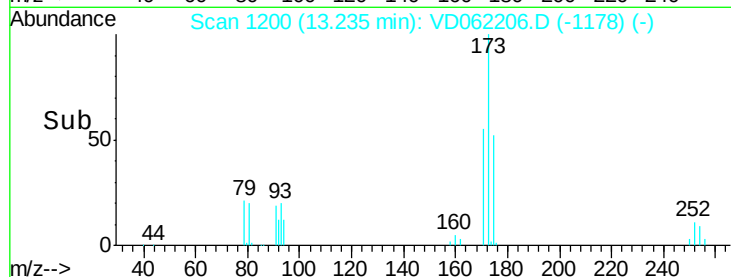
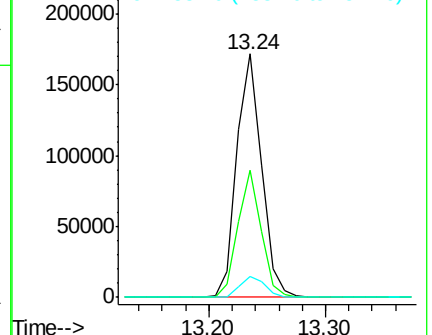
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Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

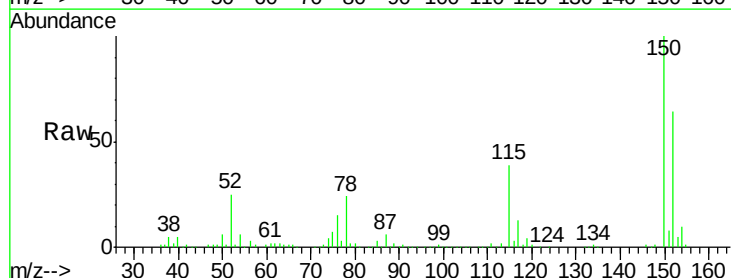
Tgt Ion:152 Resp: 482839

Ion Ratio Lower Upper

152 100

115 61.4 30.9 92.7

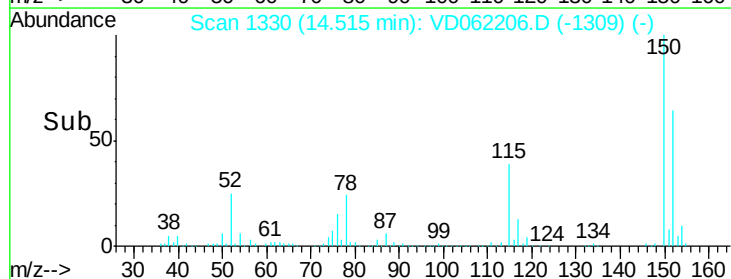
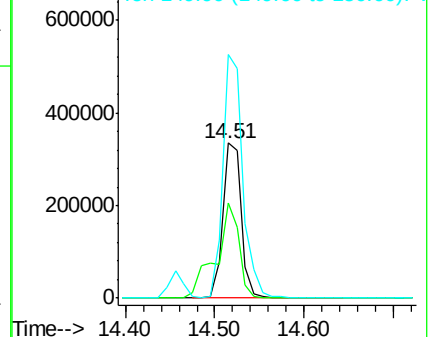
150 157.0 0.0 314.8

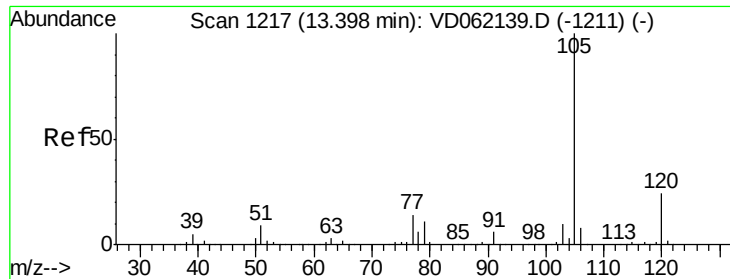


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.255 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1512397

Ion Ratio Lower Upper

105 100

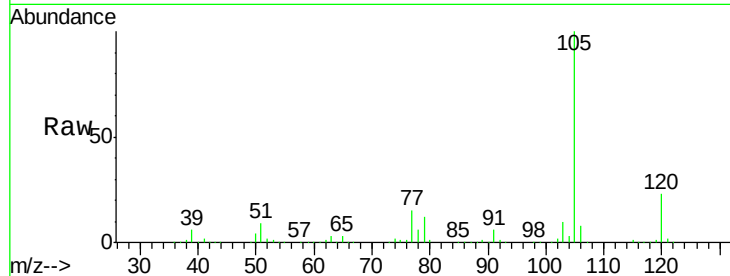
120 23.1 12.0 36.1

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

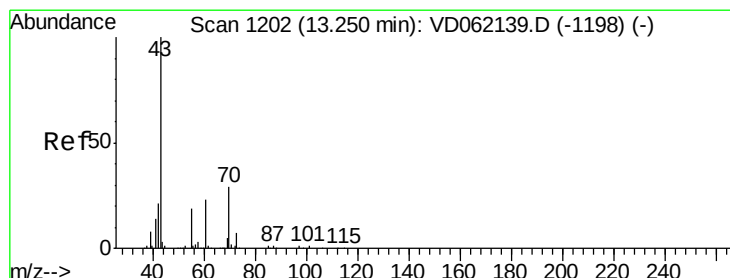
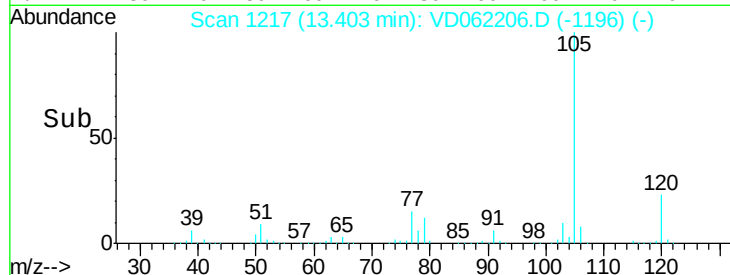
13.40

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 49.404 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion: 43 Resp: 374888

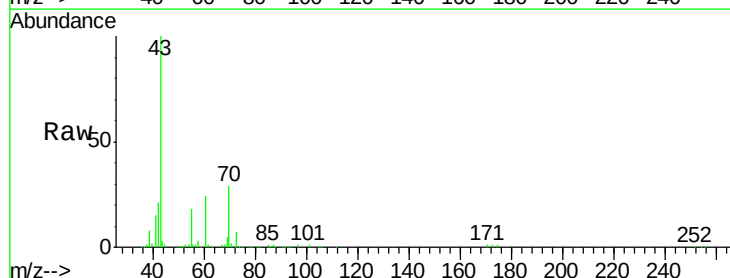
Ion Ratio Lower Upper

43 100

70 29.4 24.2 36.4

55 17.8 16.0 24.0

61 23.9 21.6 32.4



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

13.26

400000

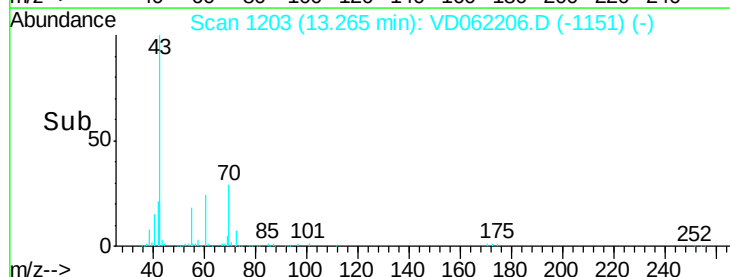
300000

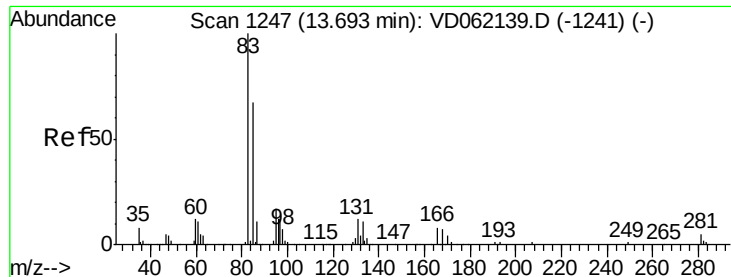
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 48.961 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

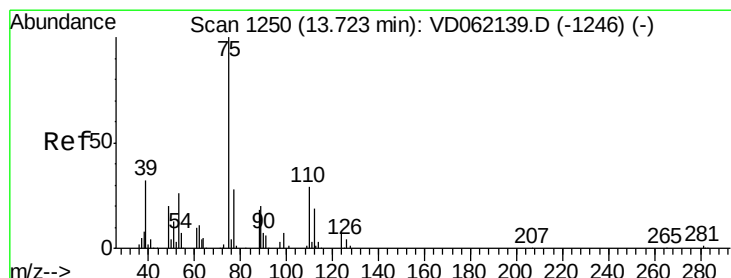
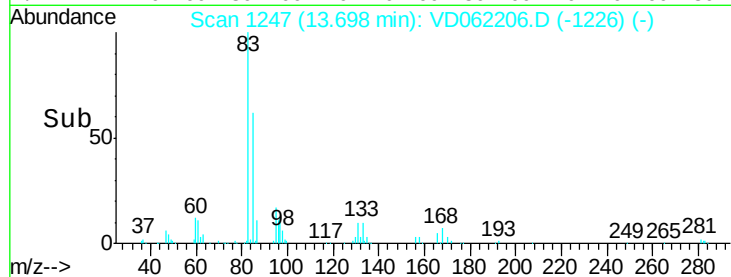
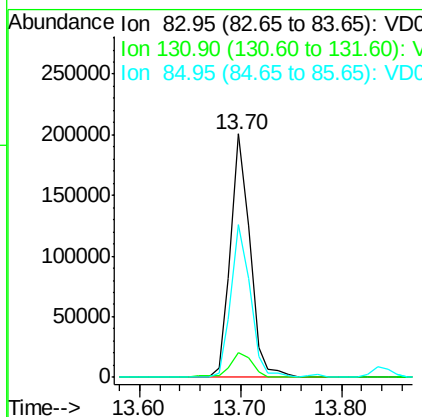
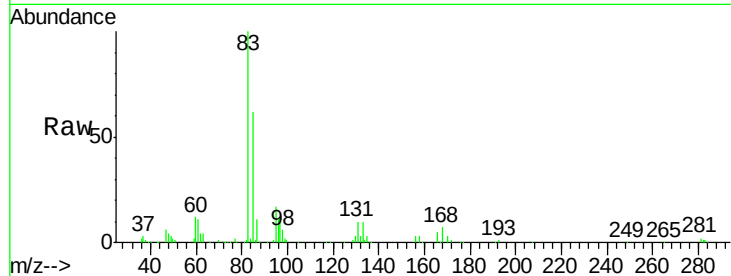
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	268267
Ion Ratio		Lower	Upper
83	100		
131	9.9	5.0	14.9
85	62.5	32.6	97.7

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#76

1,2,3-Trichloropropane

Concen: 43.691 ug/l

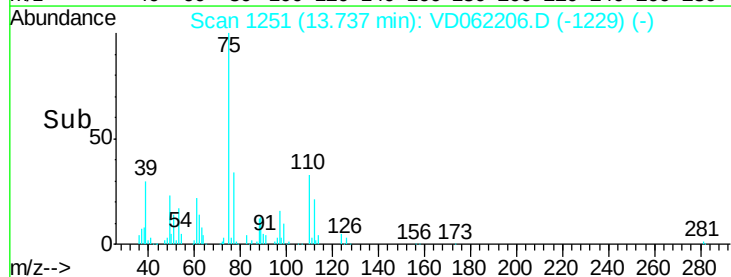
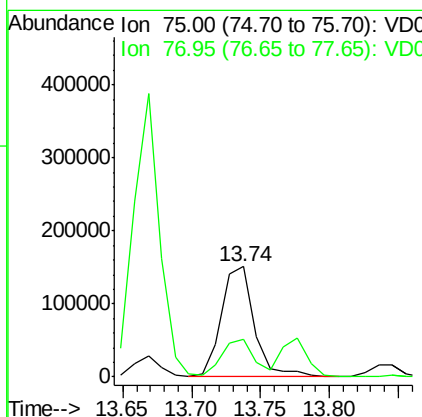
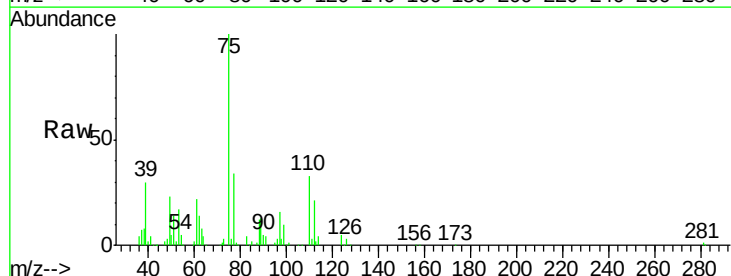
RT: 13.74 min Scan# 1251

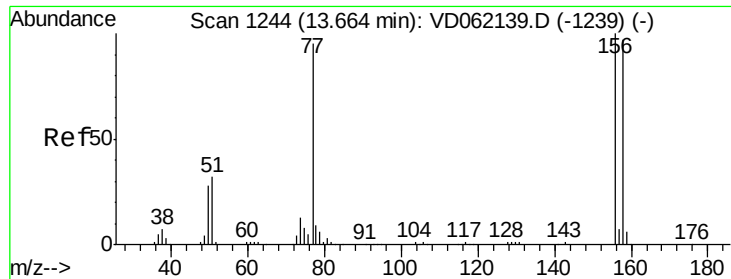
Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	75	Resp:	250705
Ion Ratio		Lower	Upper
75	100		
77	34.5	16.4	49.4





#77

Bromobenzene

Concen: 52.382 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

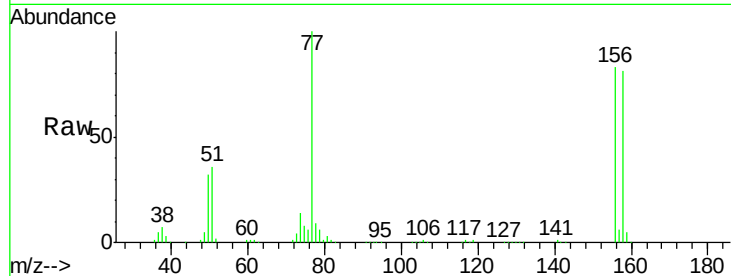
ClientSampleId :

VSTDCCC050

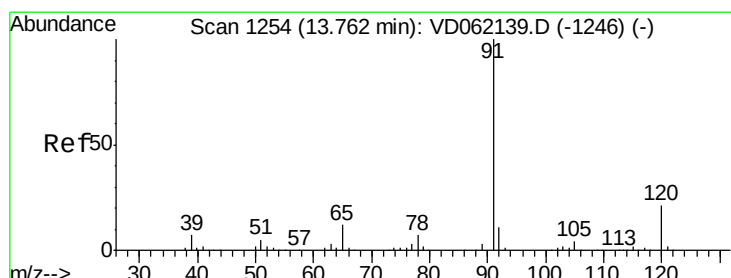
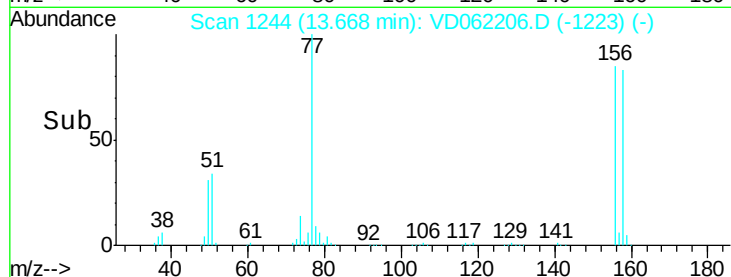
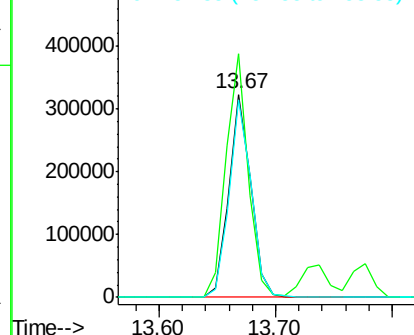
Tot Ion:	156	Resp:	424410
Ion Ratio	Lower	Upper	
156	100		
77	120.0	53.1	159.4
158	97.6	49.4	148.0

Manual Integrations
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Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 51.694 ug/l

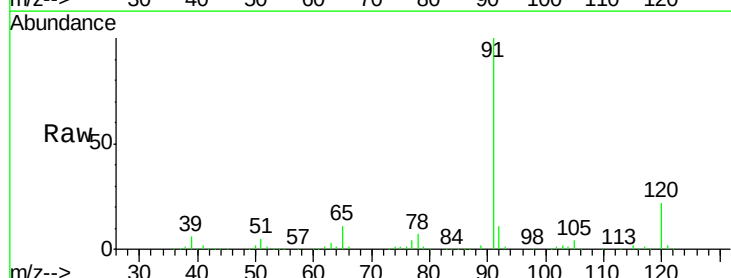
RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

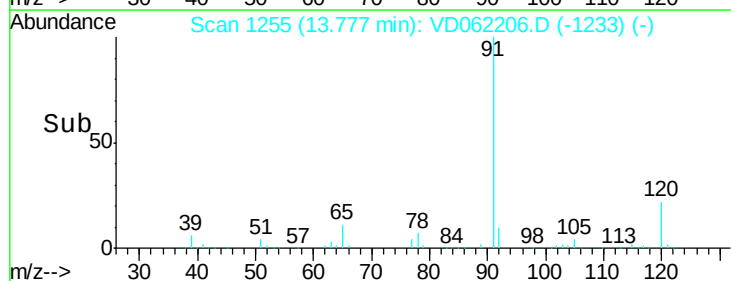
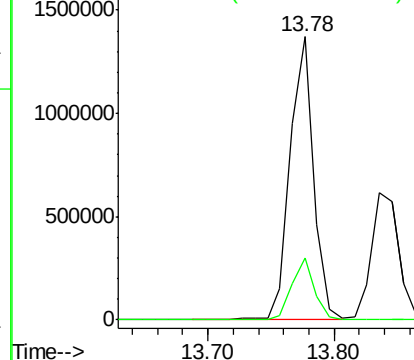
Lab File: VD062206.D

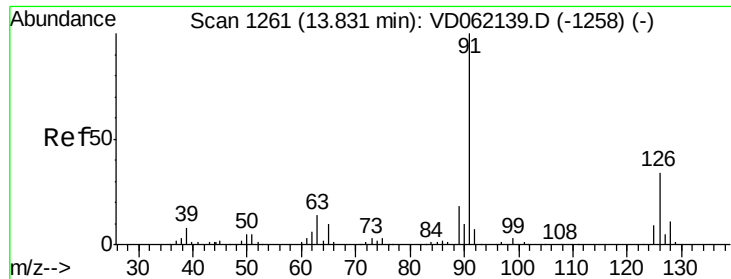
Acq: 10 May 2019 10:32

Tgt Ion:	91	Resp:	1784775
Ion Ratio	Lower	Upper	
91	100		
120	22.0	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 46.826 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 925900

Ion Ratio Lower Upper

91 100

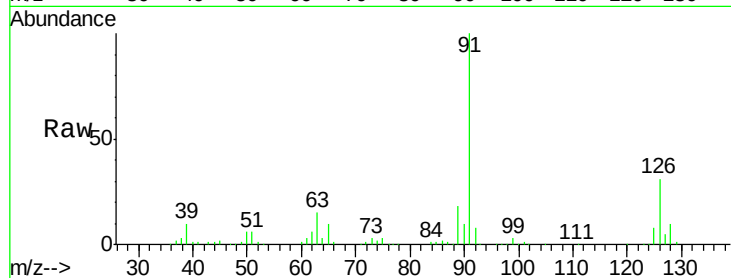
126 31.4 18.6 55.8

Manual Integrations

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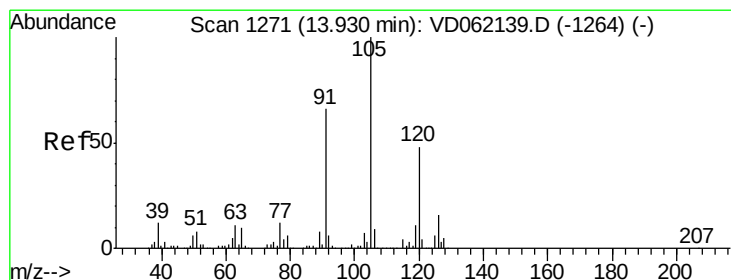
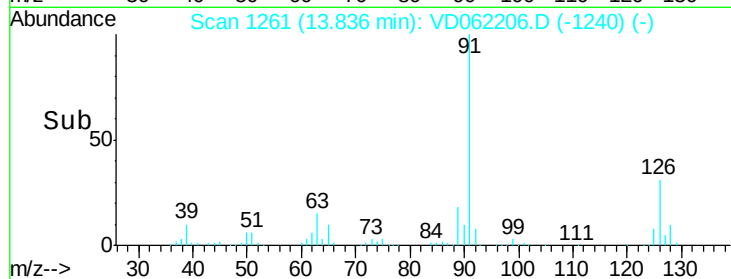
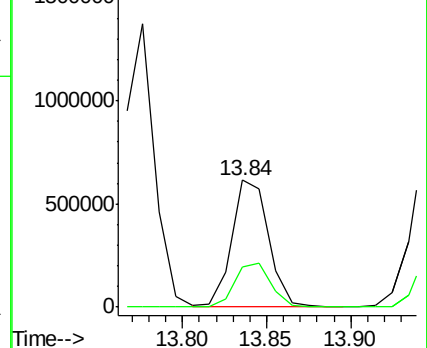
MMDadoda

5/13/2019 4:04:04 AM



Abundance Ion 91.00 (90.70 to 91.70): VD062139.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062139.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 50.629 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062206.D

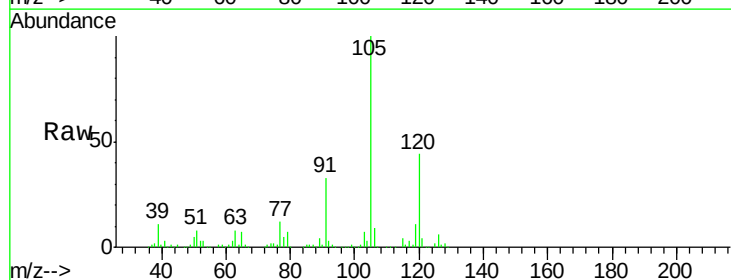
Acq: 10 May 2019 10:32

Tgt Ion:105 Resp: 1233935

Ion Ratio Lower Upper

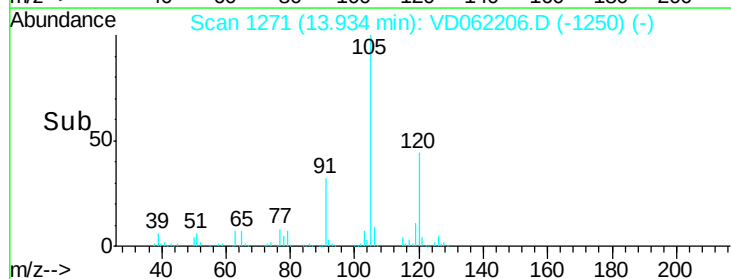
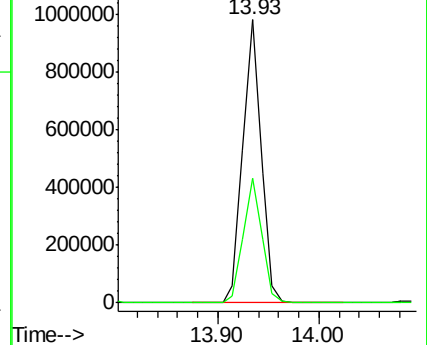
105 100

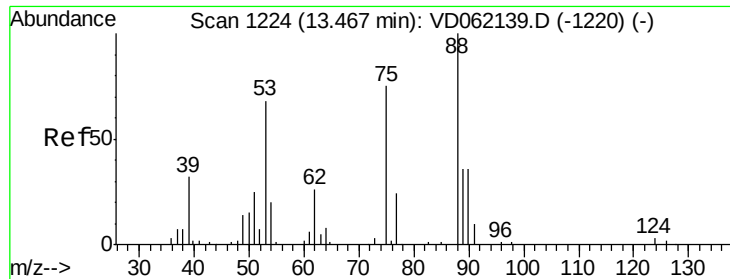
120 44.2 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062139.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD062139.D (-1264) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 48.206 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 78089

Ion Ratio Lower Upper

75 100

53 101.1 65.8 98.8#

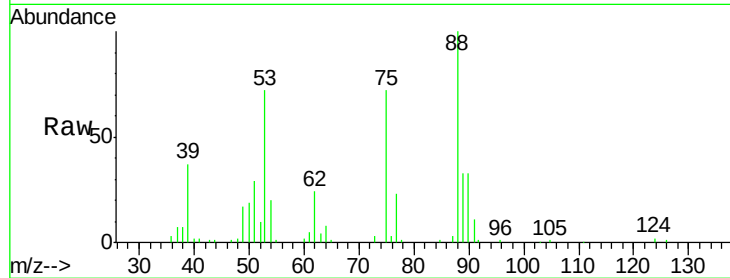
89 46.1 35.0 52.6

Manual Integrations

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MMDadoda

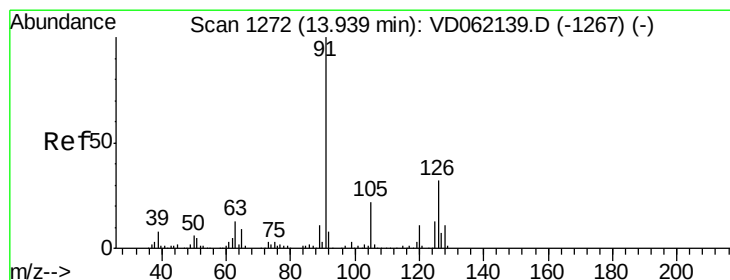
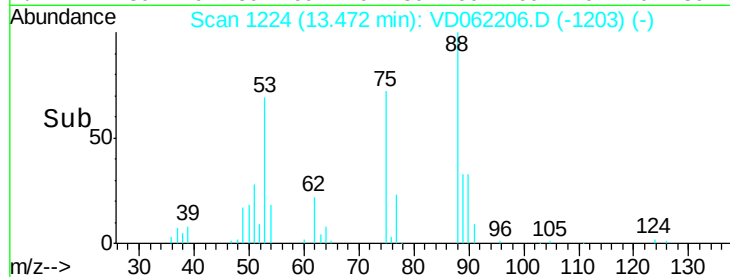
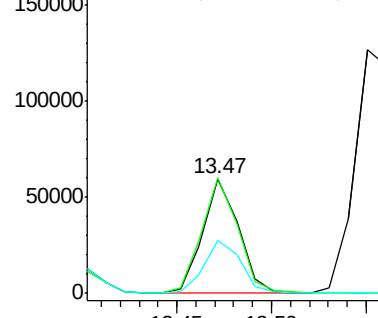
5/13/2019 4:04:04 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 50.026 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD062206.D

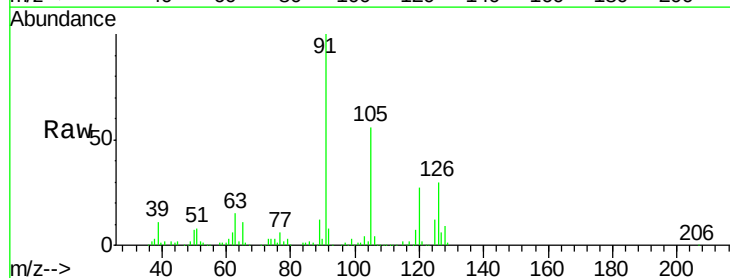
Acq: 10 May 2019 10:32

Tgt Ion: 91 Resp: 1164037

Ion Ratio Lower Upper

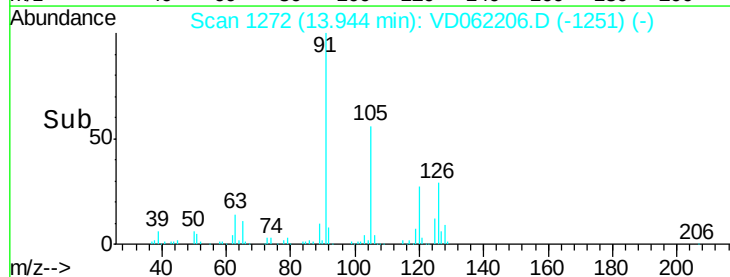
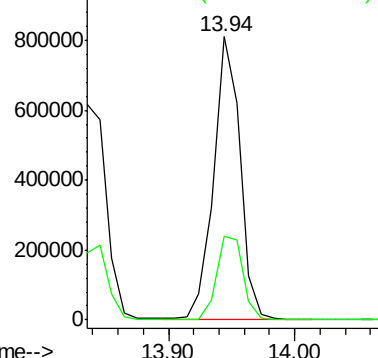
91 100

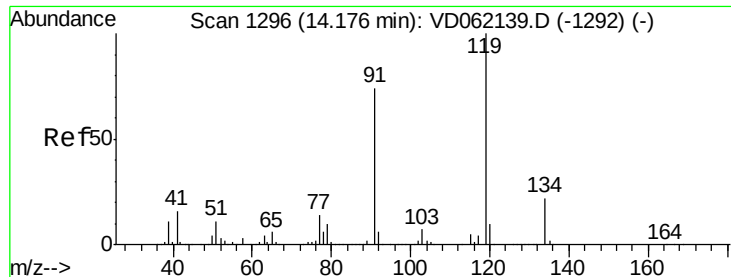
126 29.7 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





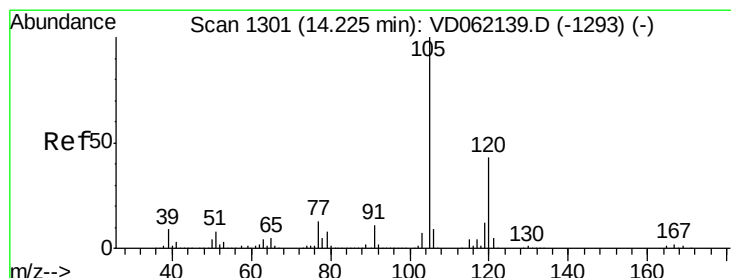
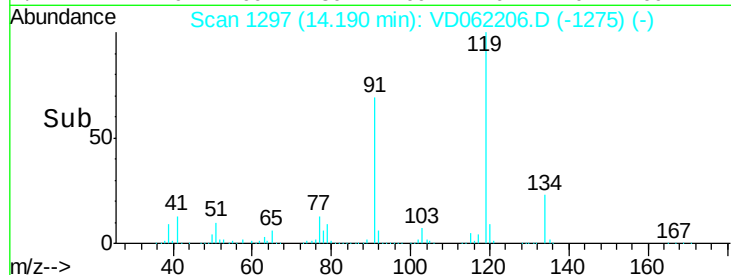
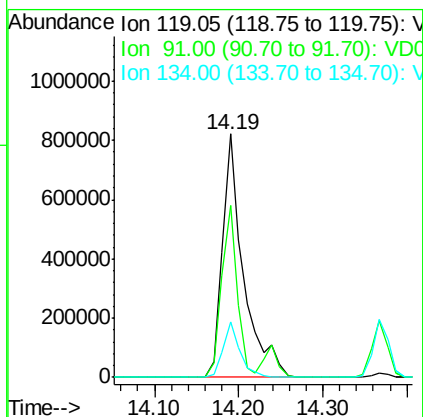
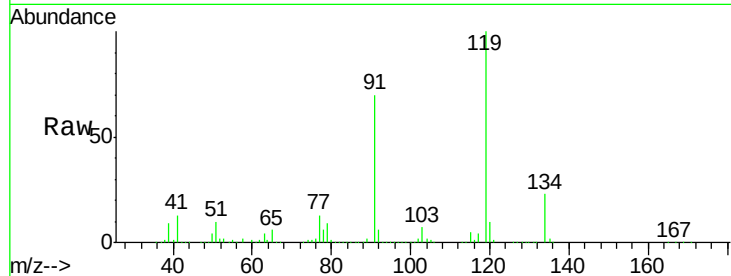
#83
 tert-Butylbenzene
 Concen: 51.897 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1421687
 Ion Ratio Lower Upper
 119 100
 91 70.4 34.2 102.6
 134 23.0 12.0 36.0

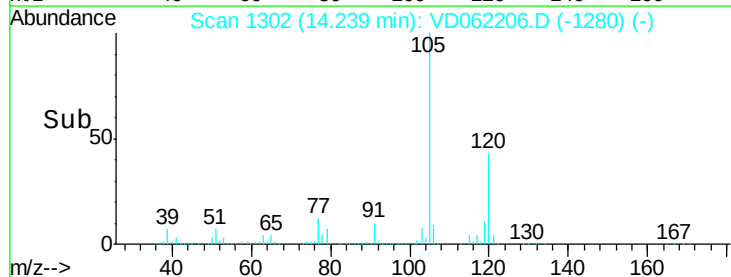
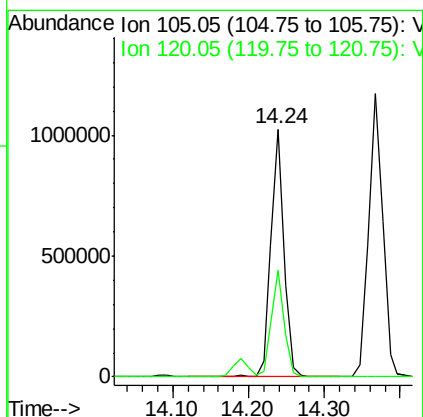
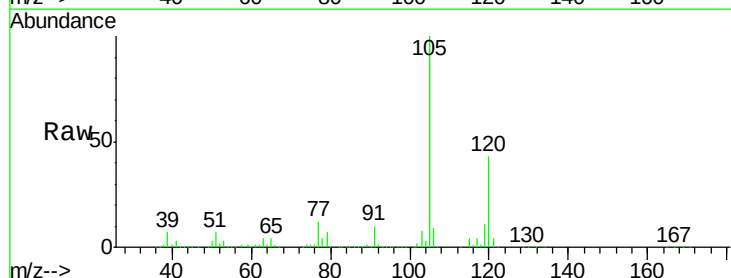
Manual Integrations
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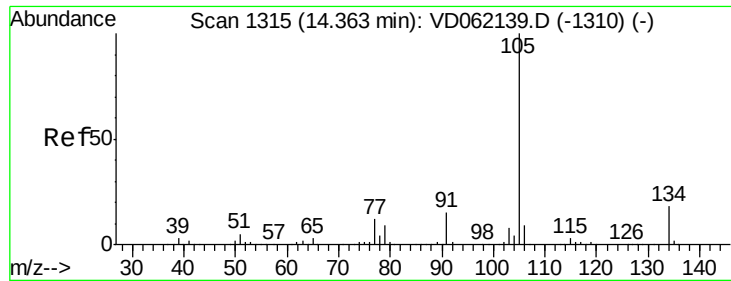
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.126 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion:105 Resp: 1225950
 Ion Ratio Lower Upper
 105 100
 120 43.4 23.1 69.2





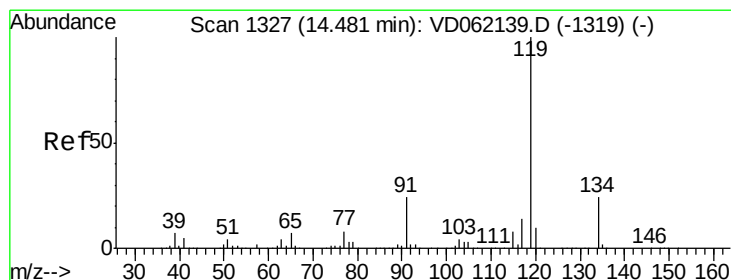
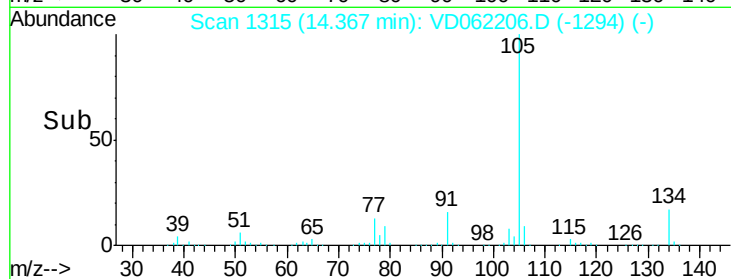
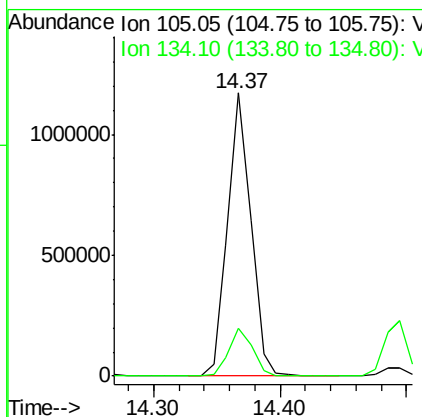
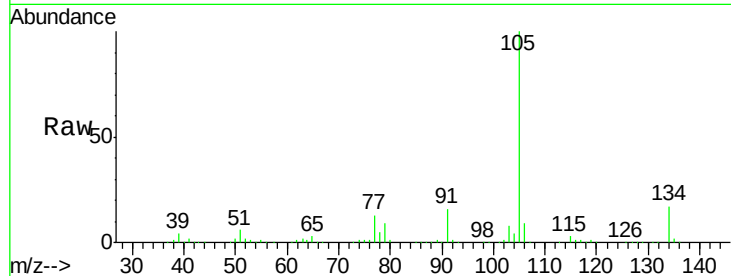
#85
 sec-Butylbenzene
 Concen: 49.568 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1488782
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.9 26.7

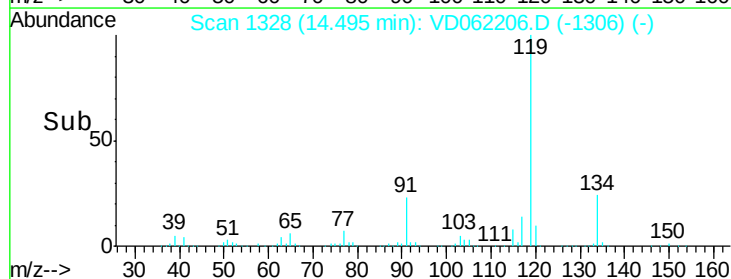
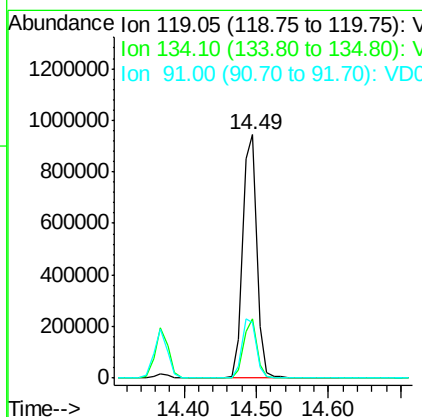
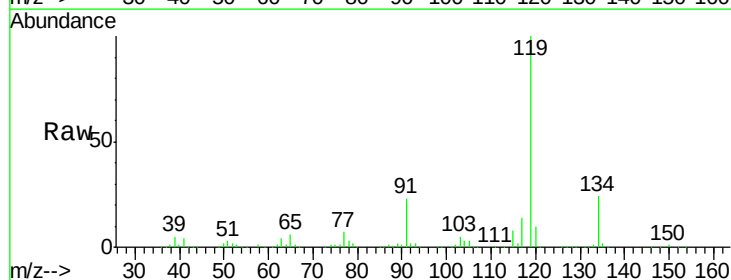
Manual Integrations
 APPROVED

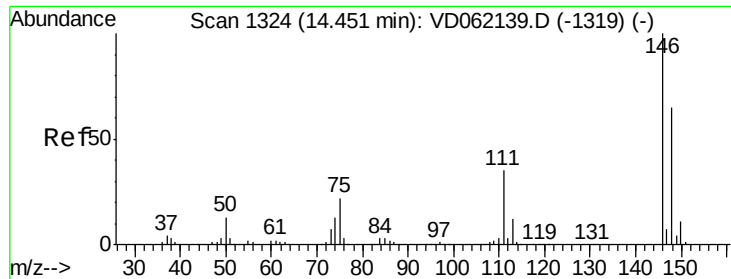
MMDadoda
 5/13/2019 4:04:04 AM



#86
 p-Isopropyltoluene
 Concen: 48.196 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion:119 Resp: 1293323
 Ion Ratio Lower Upper
 119 100
 134 24.1 12.8 38.3
 91 22.9 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 45.875 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

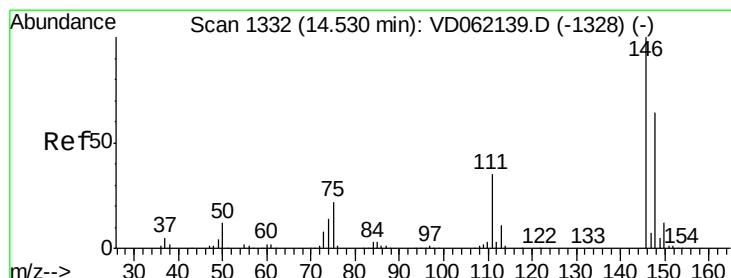
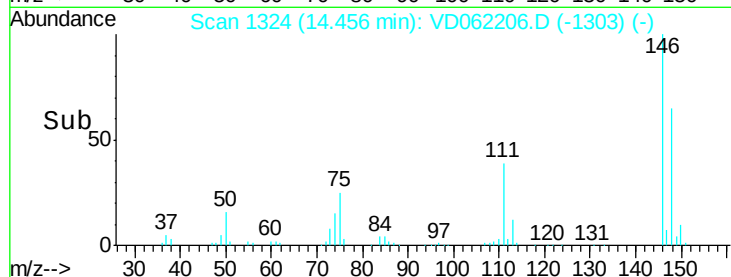
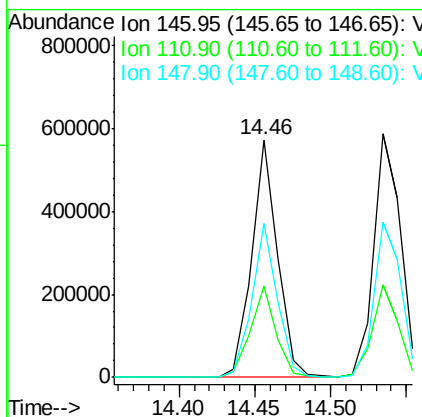
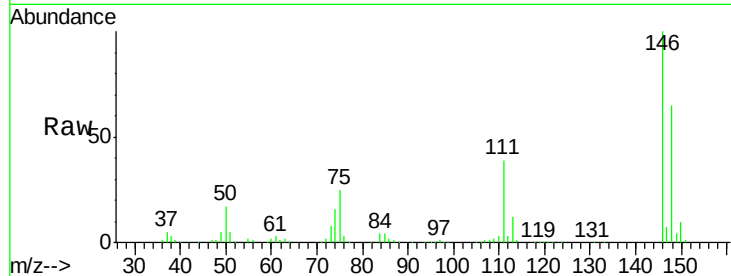
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	678976
Ion Ratio	Lower	Upper	
146	100		
111	38.7	20.0	60.0
148	64.8	31.8	95.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 50.478 ug/l

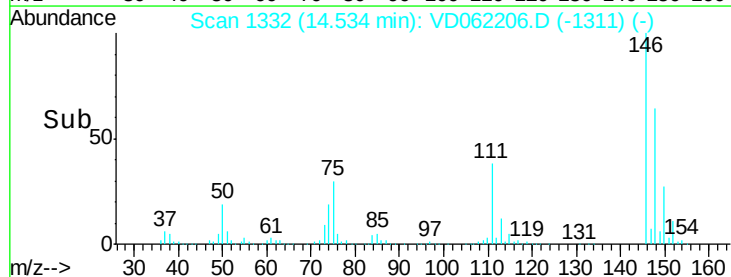
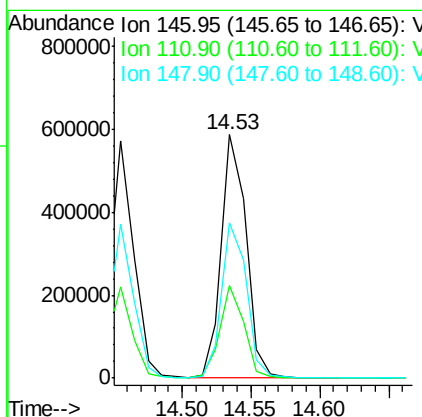
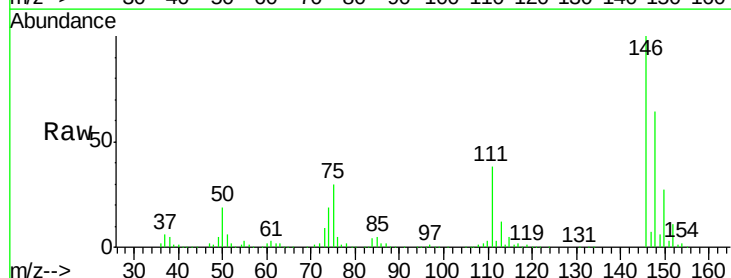
RT: 14.53 min Scan# 1332

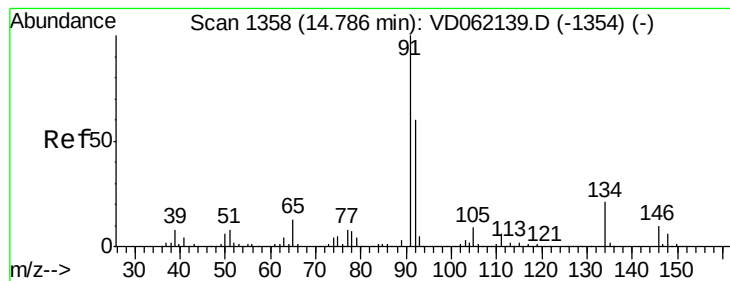
Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	146	Resp:	734091
Ion Ratio	Lower	Upper	
146	100		
111	37.9	20.2	60.5
148	63.5	32.0	96.2





#89

n-Butylbenzene

Concen: 49.849 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1200679

Ion Ratio Lower Upper

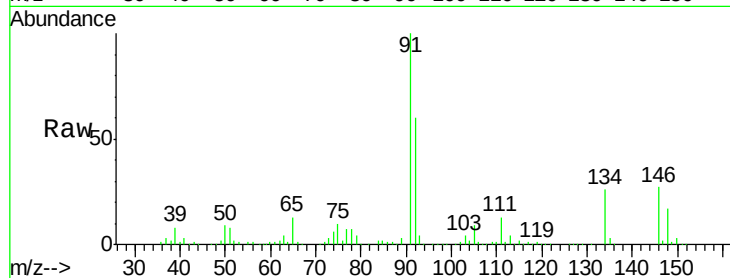
91 100

92 59.7 30.3 91.0

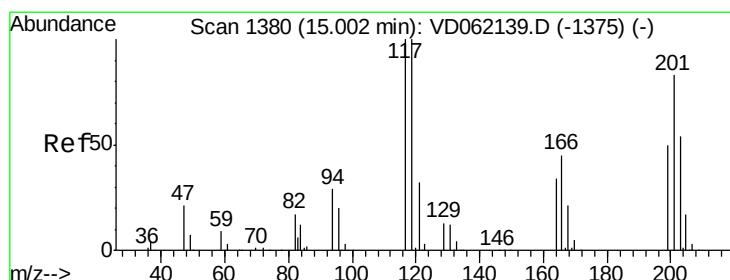
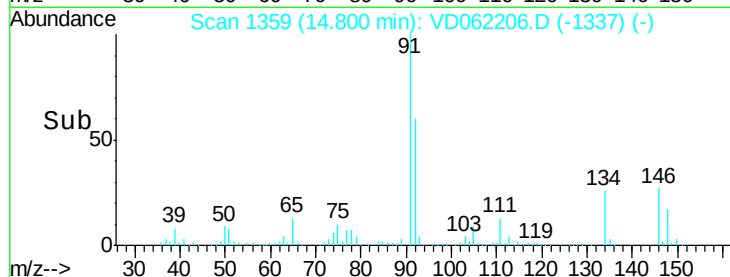
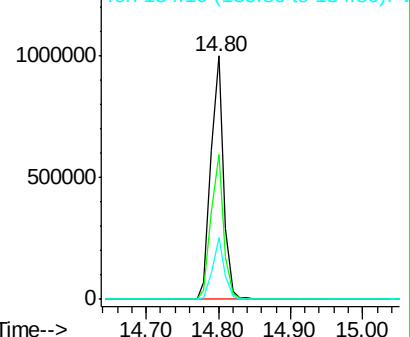
134 25.6 14.5 43.6

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Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 51.096 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD062206.D

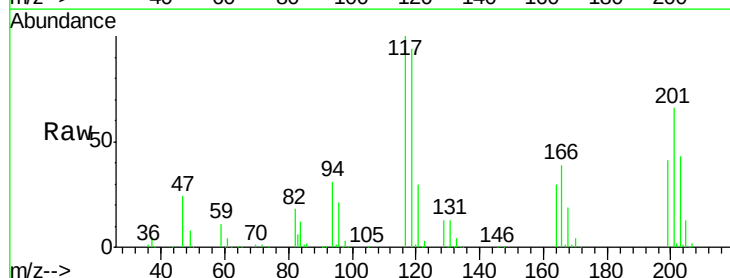
Acq: 10 May 2019 10:32

Tgt Ion: 117 Resp: 372882

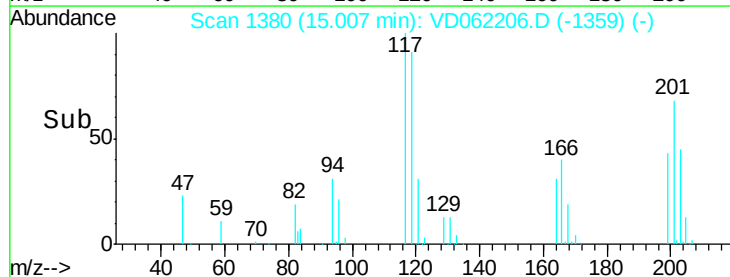
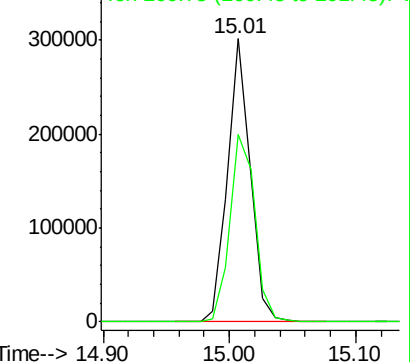
Ion Ratio Lower Upper

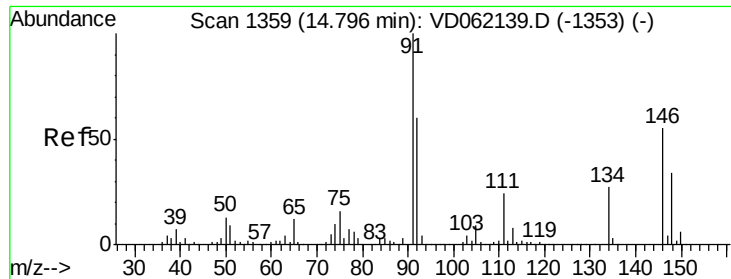
117 100

201 66.1 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





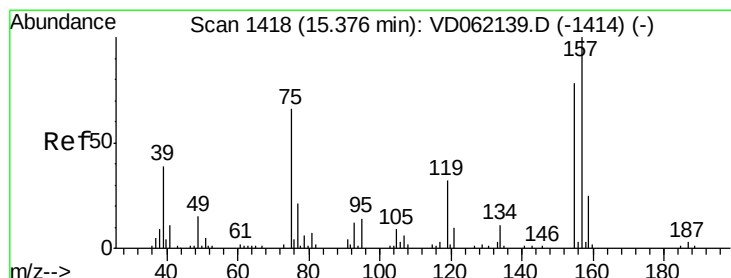
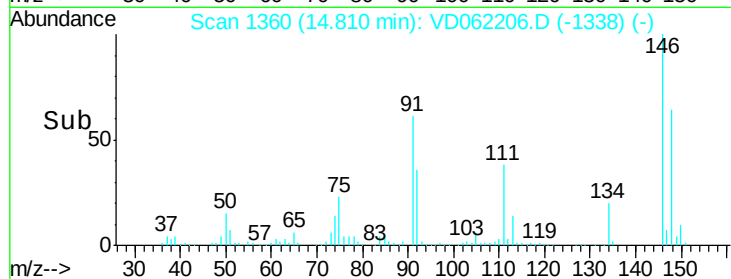
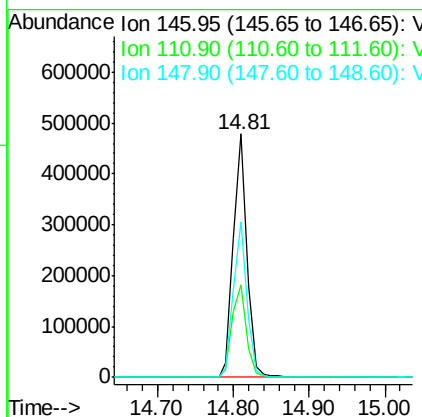
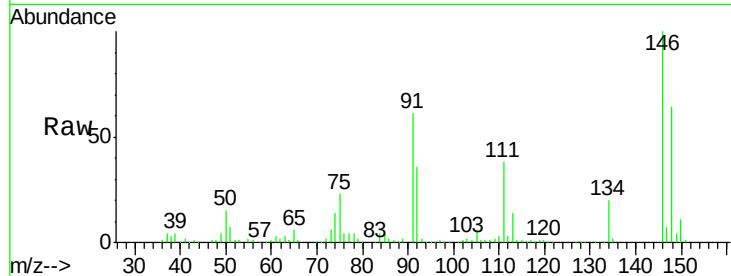
#91
 1,2-Dichlorobenzene
 Concen: 48.238 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	20.0	59.9
148	63.9	32.3	96.8

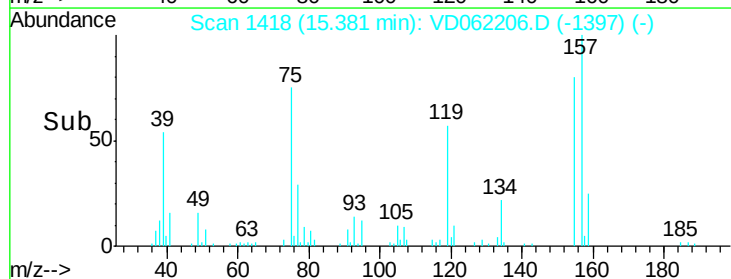
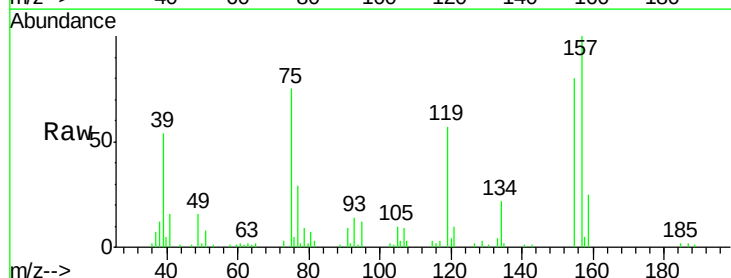
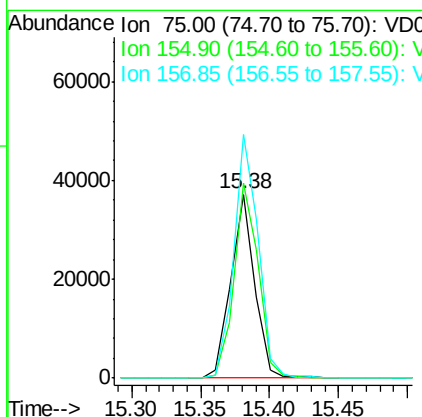
Manual Integrations
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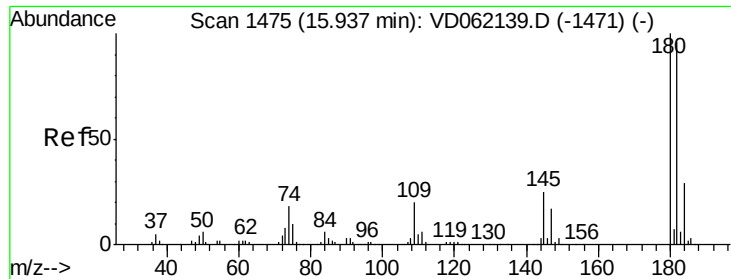
MMDadoda
 5/13/2019 4:04:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.896 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	106.2	55.3	165.8
157	132.7	67.8	203.2





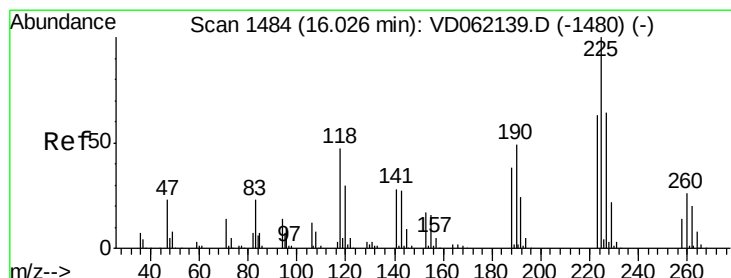
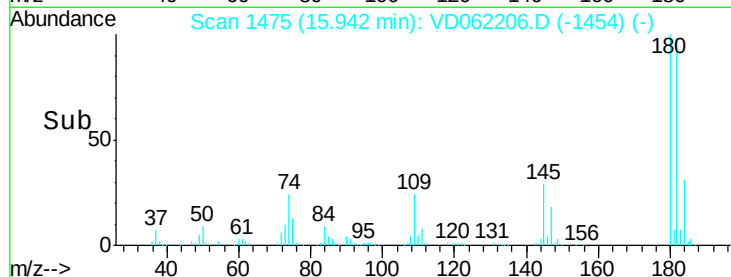
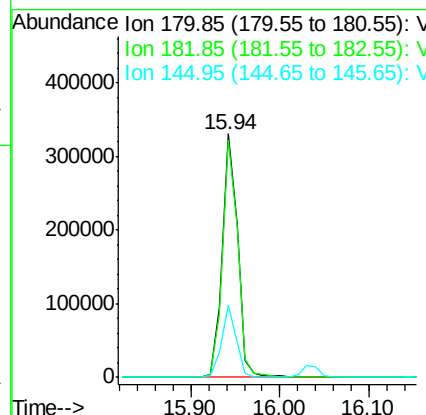
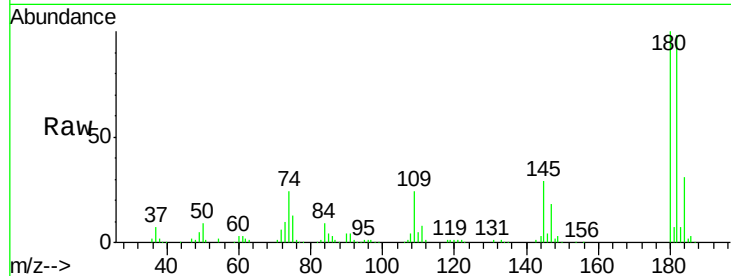
#93
 1,2,4-Trichlorobenzene
 Concen: 45.205 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	401063		
182	97.7	49.3	147.8	
145	29.5	16.2	48.6	

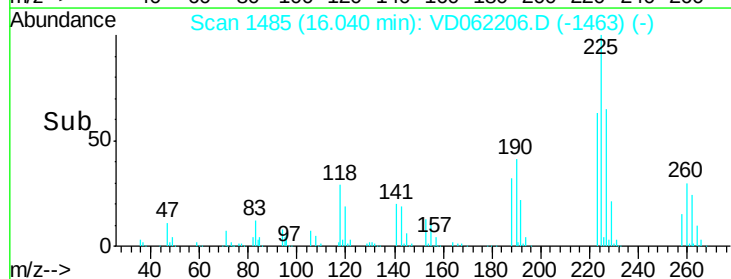
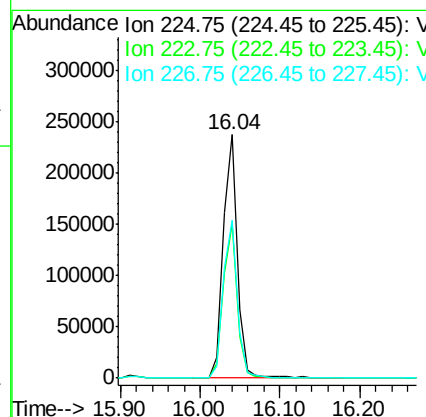
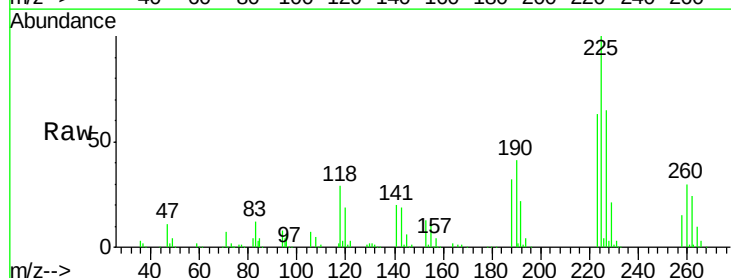
Manual Integrations
 APPROVED

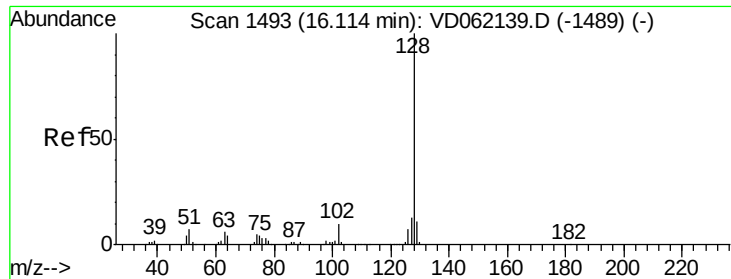
MMDadoda
 5/13/2019 4:04:04 AM



#94
 Hexachlorobutadiene
 Concen: 45.620 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062206.D
 Acq: 10 May 2019 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	301037		
223	63.2	30.6	92.0	
227	64.6	32.0	96.2	





#95

Naphthalene

Concen: 41.373 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Instrument :

MSVOA_D

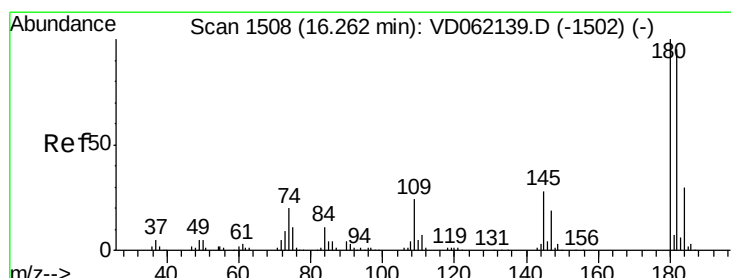
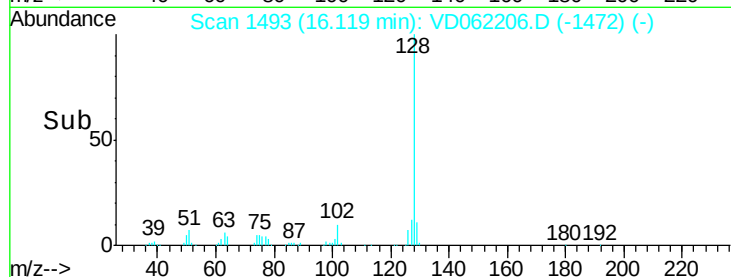
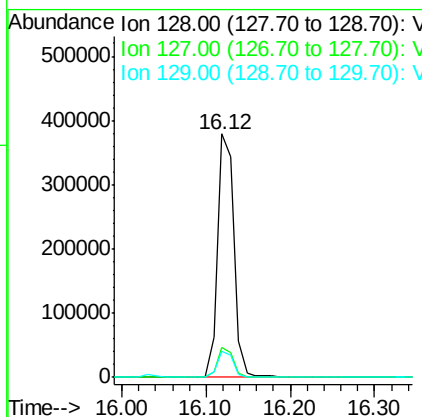
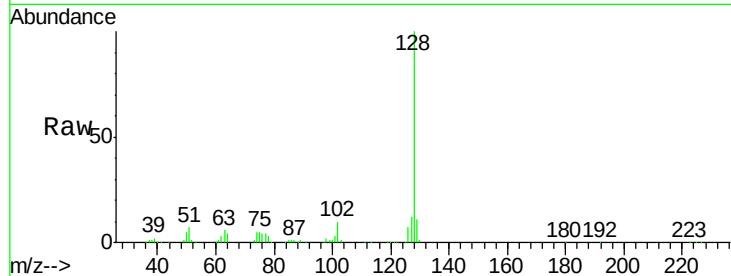
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	512473
Ion Ratio	Lower	Upper	
128	100		
127	12.0	9.8	14.8
129	10.7	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:04:04 AM



#96

1,2,3-Trichlorobenzene

Concen: 37.611 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VD062206.D

Acq: 10 May 2019 10:32

Tgt Ion:	180	Resp:	209804
Ion Ratio	Lower	Upper	
180	100		
182	90.9	47.0	141.0
145	29.8	17.0	51.0

