

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051019\
 Data File : VD062221.D
 Acq On : 10 May 2019 17:54
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:04:05 AM

Quant Time: May 11 00:12:38 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	7.04	168	601426	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	838522	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	671670	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	385214	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	342992	61.37	ug/l	0.02
Spiked Amount 50.000			Recovery	=	122.74%	
35) Dibromofluoromethane	6.92	113	389239	55.95	ug/l	0.02
Spiked Amount 50.000			Recovery	=	111.90%	
50) Toluene-d8	10.41	98	900918	53.71	ug/l	0.01
Spiked Amount 50.000			Recovery	=	107.42%	
62) 4-Bromofluorobenzene	13.56	95	388825	57.72	ug/l	0.01
Spiked Amount 50.000			Recovery	=	115.44%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.57	85	282053	49.035	ug/l	96
3) Chloromethane	1.74	50	180715	43.479	ug/l	99
4) Vinyl Chloride	1.85	62	197406	48.327	ug/l	95
5) Bromomethane	2.14	94	78046	81.542	ug/l	99
6) Chloroethane	2.26	64	102399	59.742	ug/l	100
7) Trichlorofluoromethane	2.53	101	482816	60.797	ug/l	99
8) Diethyl Ether	2.87	74	58839	38.417	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	3.14	101	294717	49.059	ug/l	98
10) Methyl Iodide	3.29	142	383268	42.213	ug/l #	82
11) Tert butyl alcohol	4.07	59	66850	234.319	ug/l #	93
12) 1,1-Dichloroethene	3.13	96	211975	46.224	ug/l	95
13) Acrolein	3.02	56	60557	205.221	ug/l #	80
14) Allyl chloride	3.61	41	310772	46.609	ug/l #	83
15) Acrylonitrile	4.19	53	175466	233.991	ug/l	92
16) Acetone	3.22	43	312601	266.702	ug/l #	84
17) Carbon Disulfide	3.36	76	618349	46.874	ug/l	99
18) Methyl Acetate	3.64	43	97751	46.610	ug/l	98
19) Methyl tert-butyl Ether	4.23	73	525445	53.457	ug/l	96
20) Methylene Chloride	3.81	84	235465	48.113	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	267341	52.390	ug/l	92
22) Diisopropyl ether	5.11	45	737996	52.013	ug/l	94
23) Vinyl Acetate	5.06	43	2082828	278.226	ug/l #	95
24) 1,1-Dichloroethane	4.98	63	440080	51.414	ug/l	98
25) 2-Butanone	6.07	43	330187	258.265	ug/l	97
26) 2,2-Dichloropropane	6.02	77	448176	52.564	ug/l	93
27) cis-1,2-Dichloroethene	6.03	96	278414	48.743	ug/l	96
28) Bromochloromethane	6.43	49	194191	57.664	ug/l	89
29) Tetrahydrofuran	6.45	42	146468	248.642	ug/l	97
30) Chloroform	6.66	83	561756	54.456	ug/l	97
31) Cyclohexane	6.95	56	273636	46.662	ug/l	99
32) 1,1,1-Trichloroethane	6.87	97	515279	52.847	ug/l	98
36) 1,1-Dichloropropene	7.14	75	359758	52.328	ug/l	96
37) Ethyl Acetate	6.18	43	155105	53.198	ug/l #	90
38) Carbon Tetrachloride	7.10	117	542621m	57.024	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	8.86	83	320254	48.618	ug/l	92
40) Benzene	7.45	78	778481	50.145	ug/l	97
41) Methacrylonitrile	6.44	41	193269	54.243	ug/l #	85
42) 1,2-Dichloroethane	7.57	62	388178	59.015	ug/l	92
43) Isopropyl Acetate	9.24	43	204625	49.486	ug/l #	96
44) Trichloroethene	8.54	130	300388	50.777	ug/l	85
45) 1,2-Dichloropropane	8.94	63	176981	46.088	ug/l	99
46) Dibromomethane	9.06	93	173442	55.542	ug/l	87
47) Bromodichloromethane	9.38	83	441393	57.788	ug/l	98
48) Methyl methacrylate	9.12	41	131570	51.657	ug/l	86
49) 1,4-Dioxane	9.08	88	26814	975.732	ug/l #	85
51) 4-Methyl-2-Pentanone	10.30	43	681734	256.482	ug/l	91
52) Toluene	10.51	92	518983	51.379	ug/l	98
53) t-1,3-Dichloropropene	10.91	75	376344	57.009	ug/l	96
54) cis-1,3-Dichloropropene	10.04	75	386713	53.697	ug/l #	90
55) 1,1,2-Trichloroethane	11.19	97	183733	51.409	ug/l	98
56) Ethyl methacrylate	11.04	69	184210	49.600	ug/l #	83
57) 1,3-Dichloropropane	11.40	76	293242	54.310	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.86	63	536694	264.556	ug/l	94
59) 2-Hexanone	11.53	43	518163	264.495	ug/l	90
60) Dibromochloromethane	11.69	129	338482	54.801	ug/l	98
61) 1,2-Dibromoethane	11.81	107	226137	52.044	ug/l	93
64) Tetrachloroethene	11.26	164	279227	53.164	ug/l	98
65) Chlorobenzene	12.40	112	664903	53.149	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.51	131	319405	58.665	ug/l	94
67) Ethyl Benzene	12.52	91	1203917	57.484	ug/l	98
68) m/p-Xylenes	12.67	106	795696	104.425	ug/l	93
69) o-Xylene	13.05	106	358165	50.559	ug/l	82
70) Styrene	13.08	104	631280	52.605	ug/l	98
71) Bromoform	13.23	173	226226	59.722	ug/l #	98
73) Isopropylbenzene	13.40	105	1093499	47.356	ug/l	97
74) N-amyl acetate	13.26	43	294312	48.615	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.70	83	215236	49.237	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	230203	50.285	ug/l	96
77) Bromobenzene	13.67	156	347331	53.733	ug/l	87
78) n-propylbenzene	13.77	91	1352883	49.116	ug/l	97
79) 2-Chlorotoluene	13.84	91	838242	53.136	ug/l	95
80) 1,3,5-Trimethylbenzene	13.93	105	1009618	51.923	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.47	75	59244	45.841	ug/l #	69
82) 4-Chlorotoluene	13.94	91	961479	51.793	ug/l	81
83) tert-Butylbenzene	14.19	119	1167885	53.437	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	1008417	51.681	ug/l	91
85) sec-Butylbenzene	14.37	105	1213661	50.648	ug/l	96
86) p-Isopropyltoluene	14.49	119	1175400	54.902	ug/l	94
87) 1,3-Dichlorobenzene	14.45	146	603701	51.126	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	560159	48.280	ug/l	94
89) n-Butylbenzene	14.80	91	1006251	52.365	ug/l	95
90) Hexachloroethane	15.00	117	301996	51.870	ug/l	94
91) 1,2-Dichlorobenzene	14.81	146	507552	52.192	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	39598	55.183	ug/l	75

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VSTDCCC050

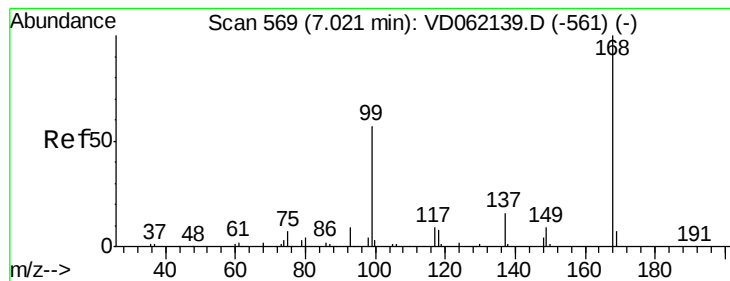
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	432751	61.138	ug/l	96
94) Hexachlorobutadiene	16.04	225	289338	54.959	ug/l	98
95) Naphthalene	16.13	128	572260	57.909	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	348994	78.418	ug/l	94

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



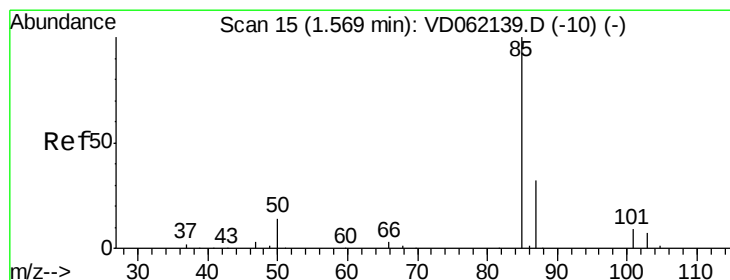
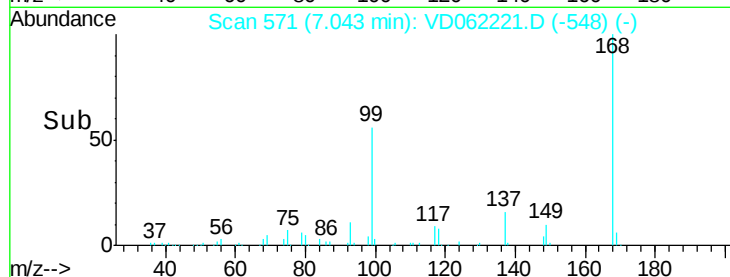
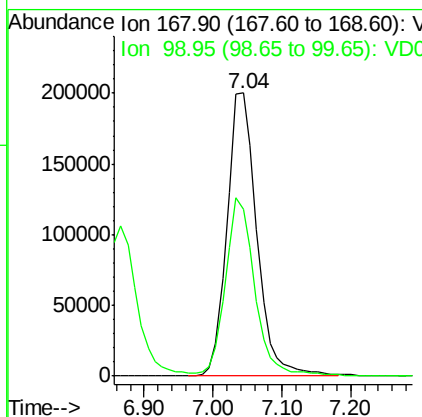
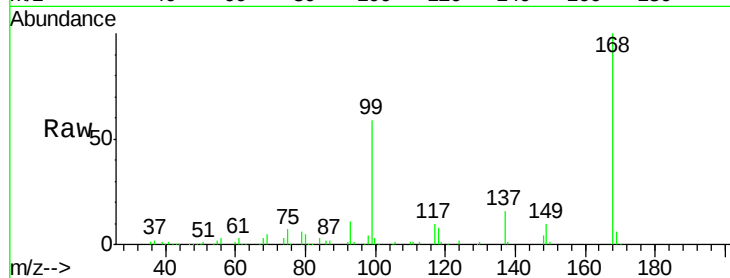
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
168	100	601426		
99	59.1	46.5	69.7	

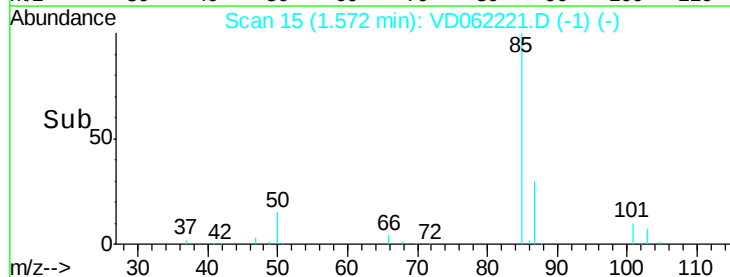
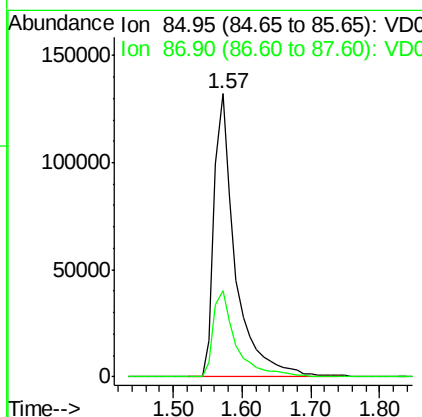
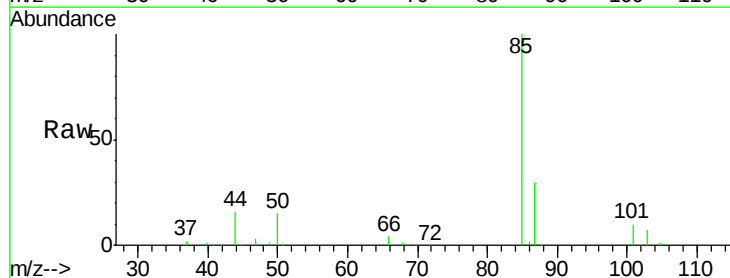
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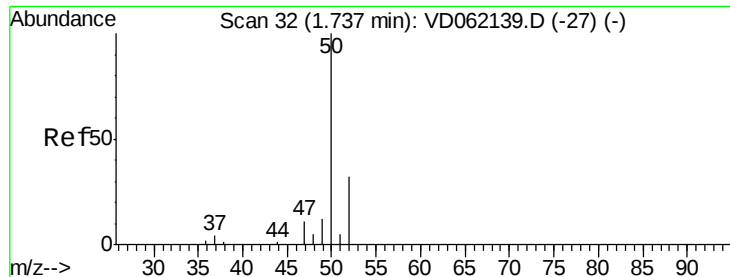
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#2
Dichlorodifluoromethane
Concen: 49.035 ug/l
RT: 1.57 min Scan# 15
Delta R.T. 0.00 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	282053		
87	30.4	16.2	48.6	





#3

Chloromethane

Concen: 43.479 ug/l

RT: 1.74 min Scan# 32

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 180715

Ion Ratio Lower Upper

50 100

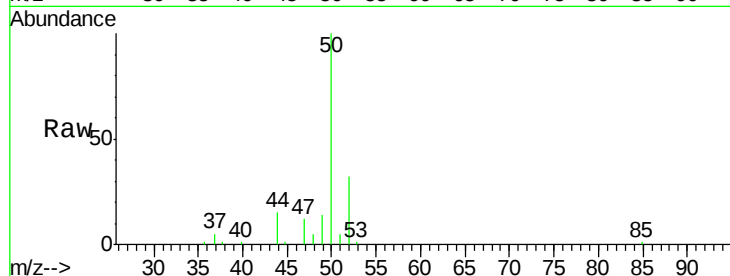
52 32.1 25.2 37.8

Manual Integrations

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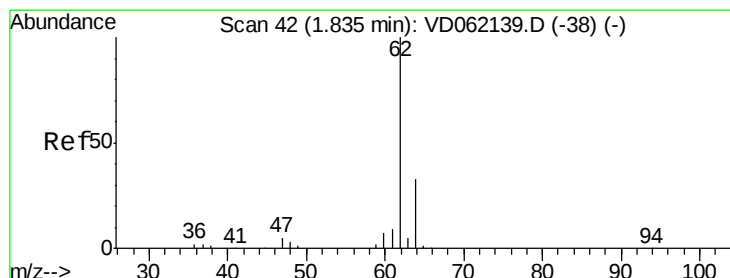
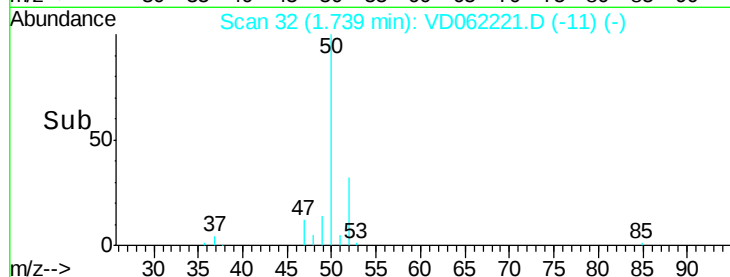
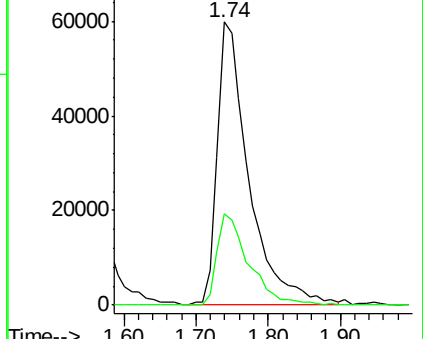
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.327 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062221.D

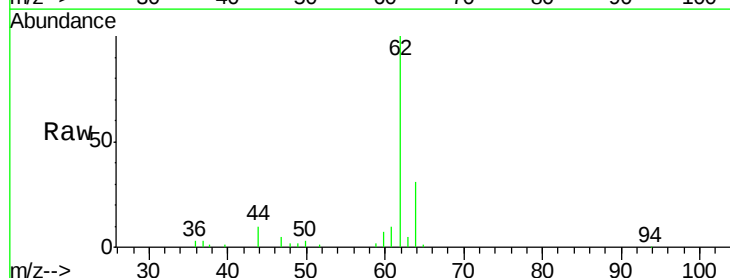
Acq: 10 May 2019 17:54

Tgt Ion: 62 Resp: 197406

Ion Ratio Lower Upper

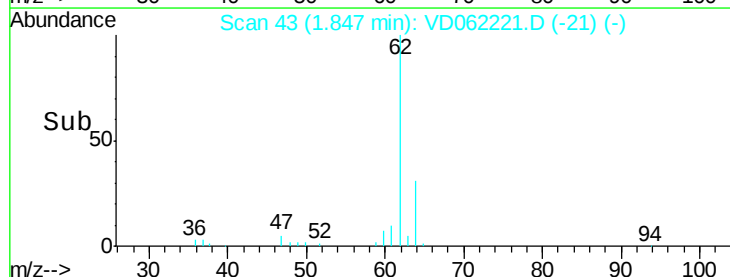
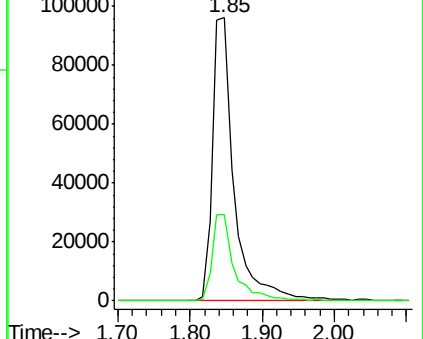
62 100

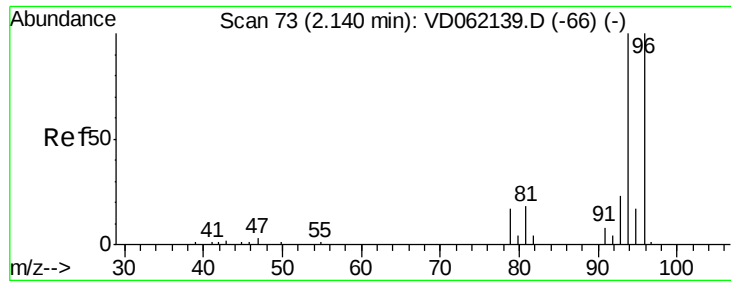
64 30.5 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 81.542 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 78046

Ion Ratio Lower Upper

94 100

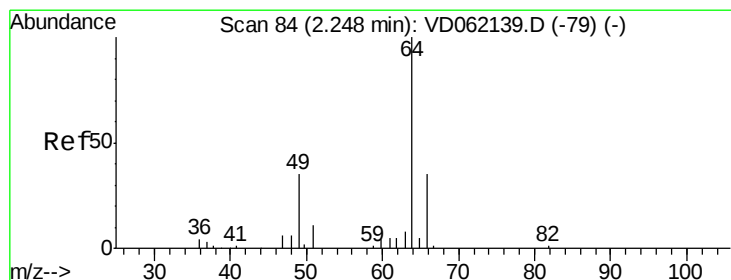
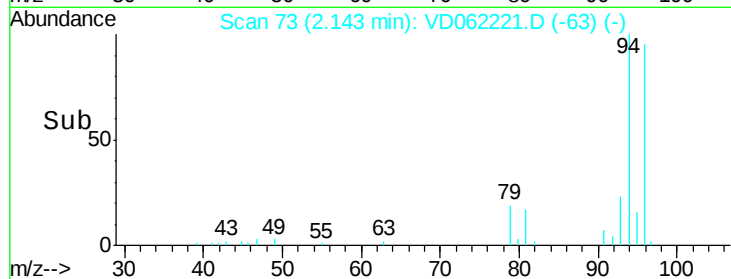
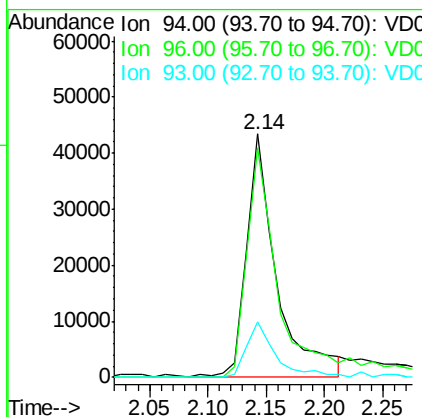
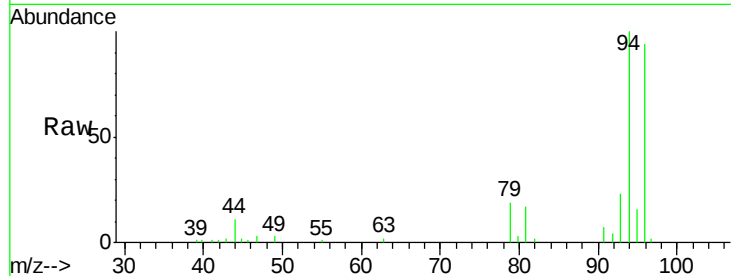
96 94.2 76.6 115.0

93 22.8 18.5 27.7

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#6

Chloroethane

Concen: 59.742 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VD062221.D

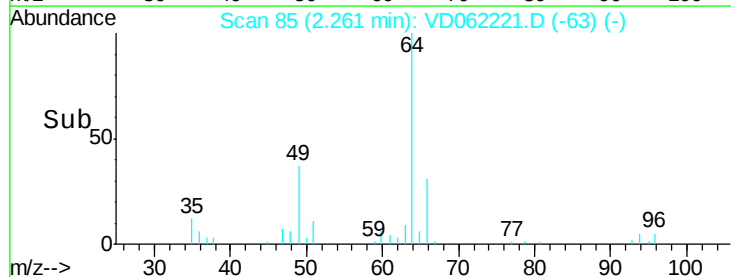
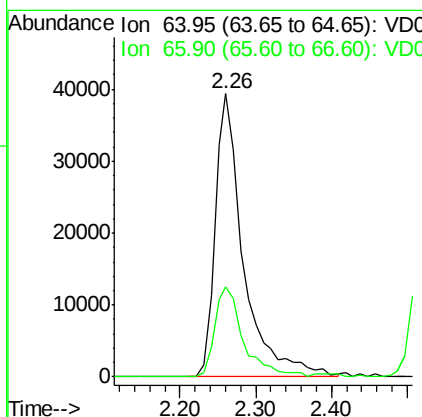
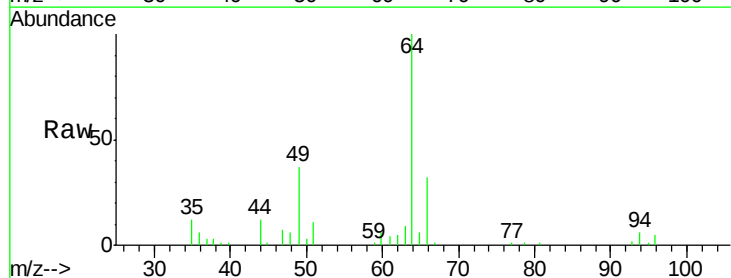
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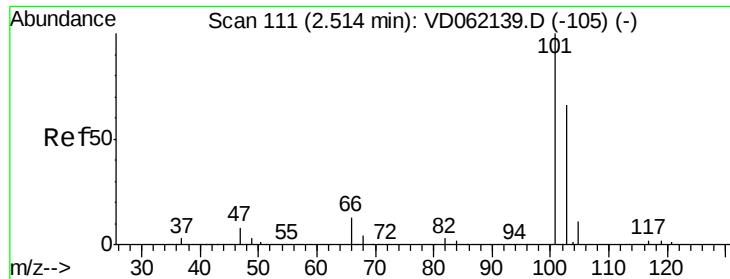
Tgt Ion: 64 Resp: 102399

Ion Ratio Lower Upper

64 100

66 31.8 25.6 38.4





#7

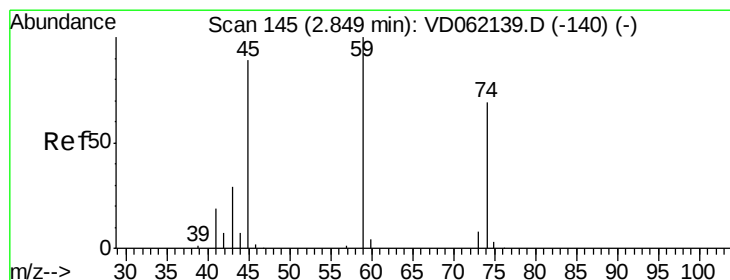
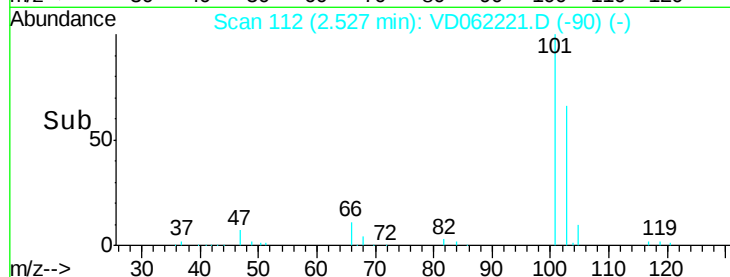
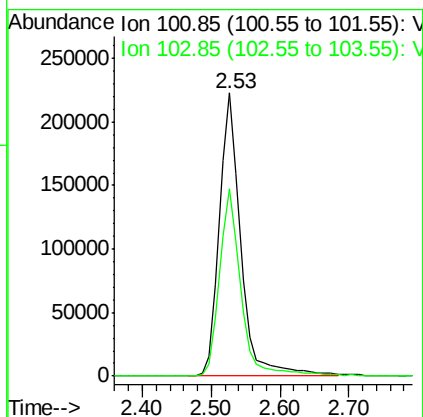
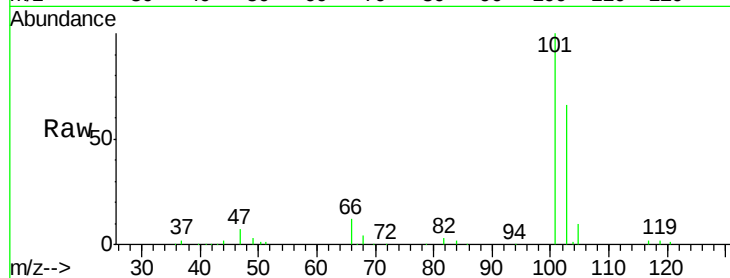
Trichlorofluoromethane
Concen: 60.797 ug/l
RT: 2.53 min Scan# 112
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

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ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	53.6	80.4

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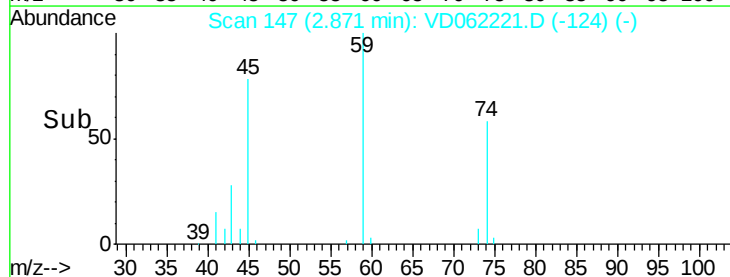
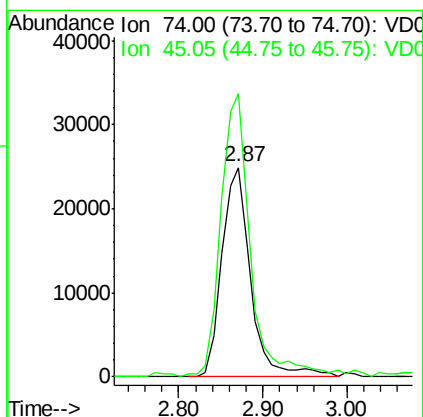
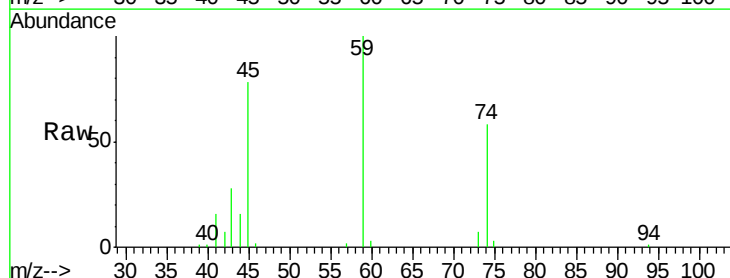
MMDadoda
5/13/2019 4:04:05 AM

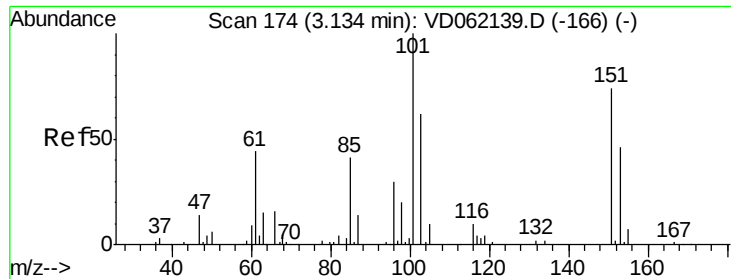


#8

Diethyl Ether
Concen: 38.417 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	137.7	56.9	170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.059 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

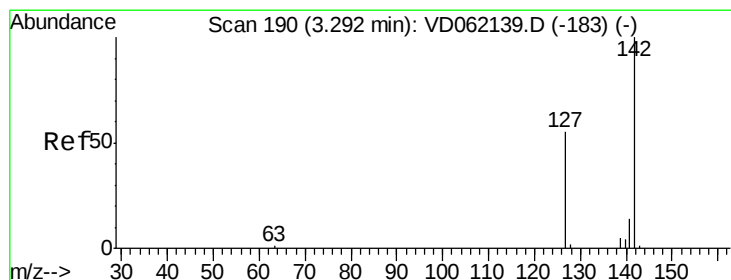
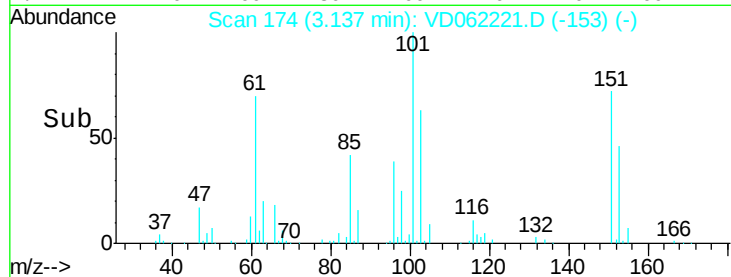
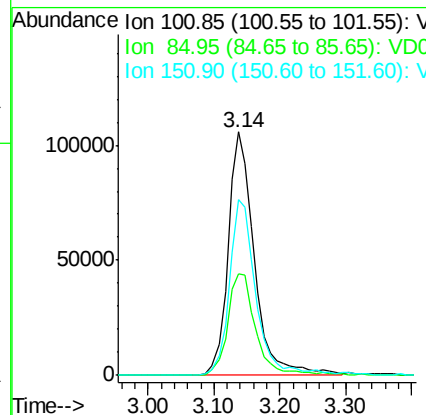
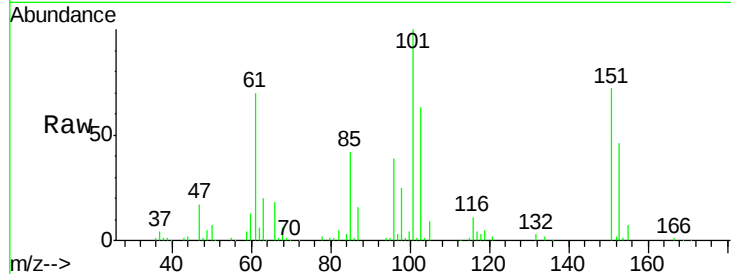
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	294717
Ion Ratio	Lower	Upper	
101	100		
85	41.8	32.4	48.6
151	72.1	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 42.213 ug/l

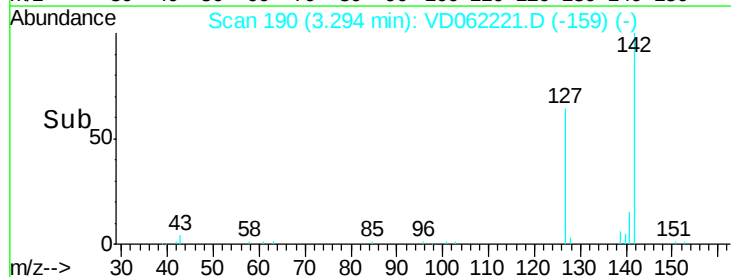
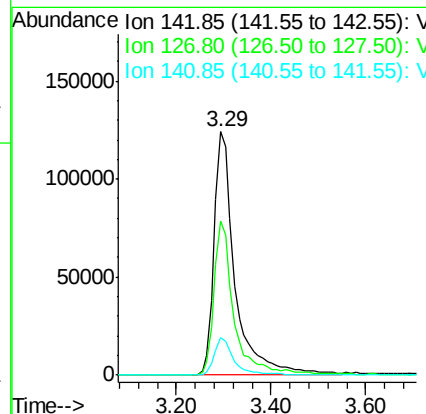
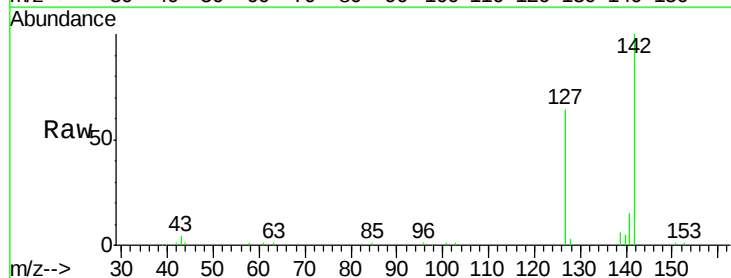
RT: 3.29 min Scan# 190

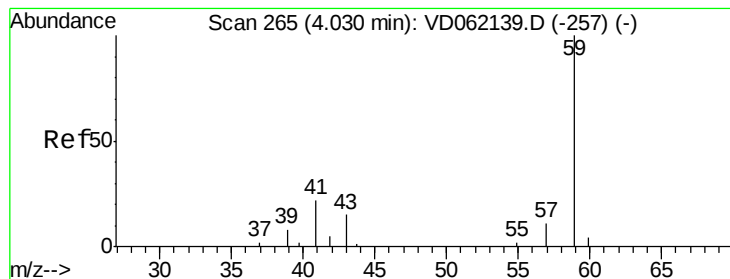
Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	142	Resp:	383268
Ion Ratio	Lower	Upper	
142	100		
127	63.5	38.8	58.2#
141	15.2	11.4	17.0





#11

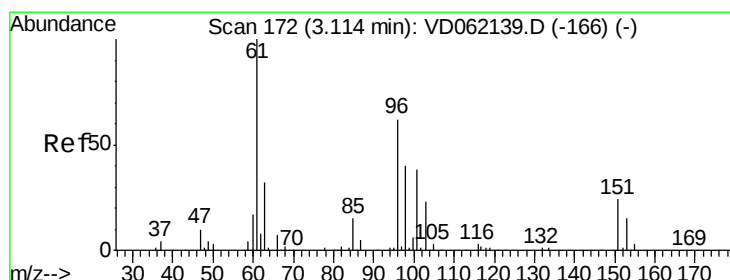
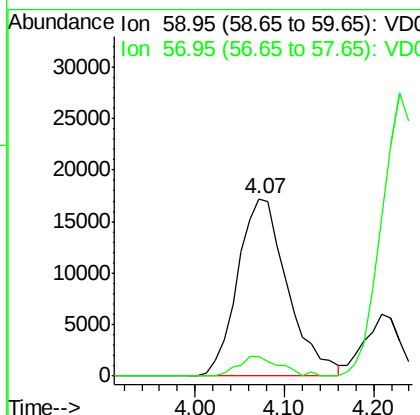
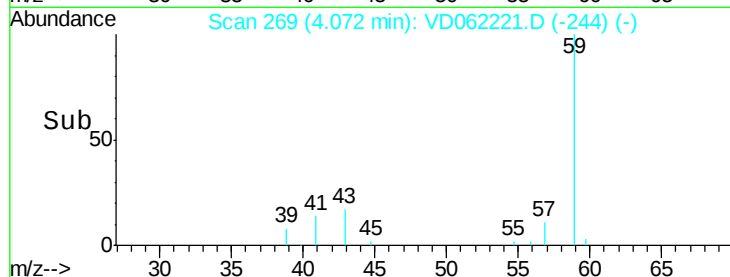
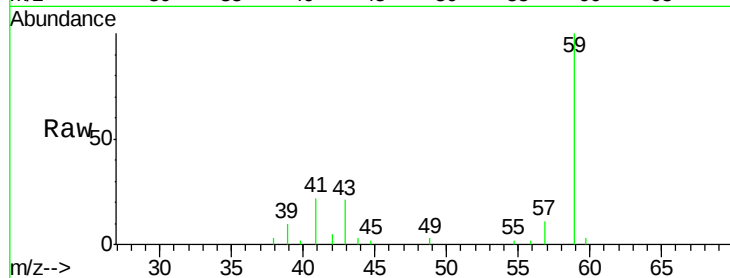
Tert butyl alcohol
Concen: 234.319 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.04 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 66850
Ion Ratio Lower Upper
59 100
57 11.2 6.9 10.3#

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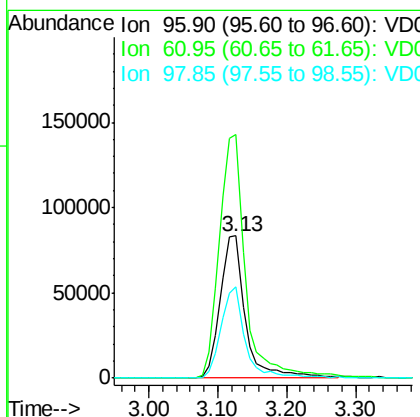
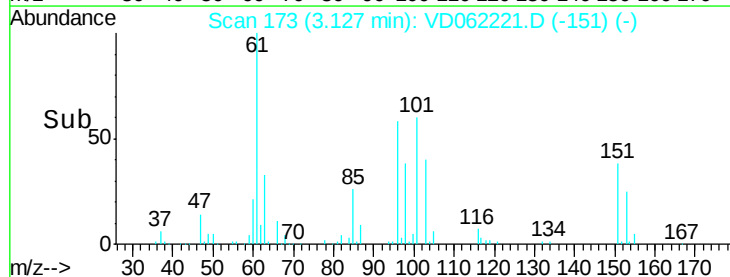
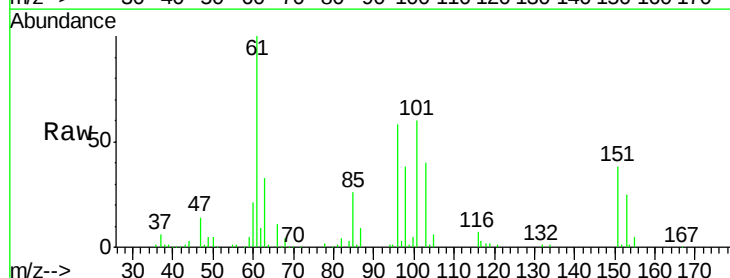
MMDadoda
5/13/2019 4:04:05 AM

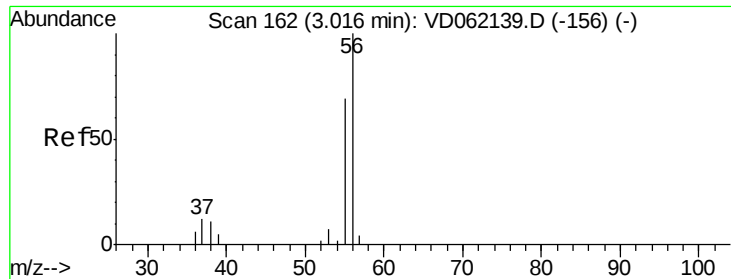


#12

1,1-Dichloroethene
Concen: 46.224 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion: 96 Resp: 211975
Ion Ratio Lower Upper
96 100
61 171.0 129.8 194.8
98 64.5 51.2 76.8





#13

Acrolein

Concen: 205.221 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 60557

Ion Ratio Lower Upper

56 100

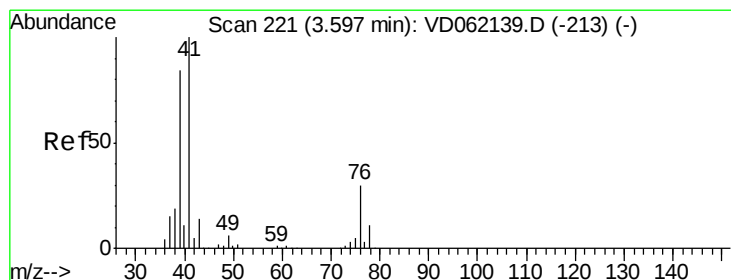
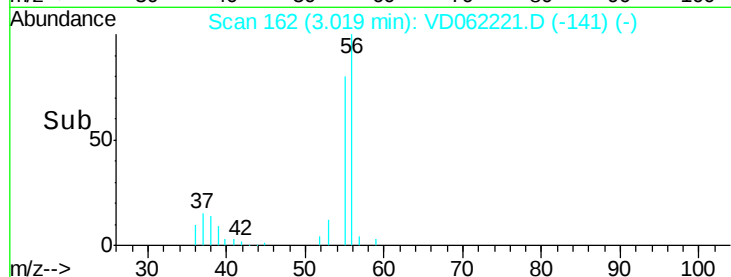
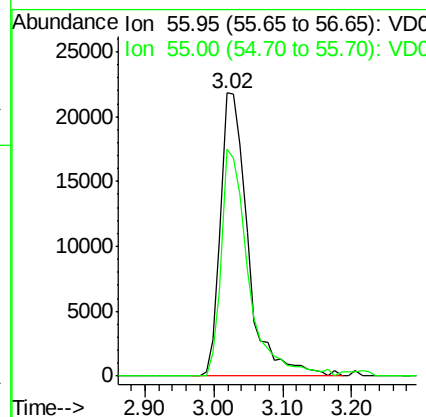
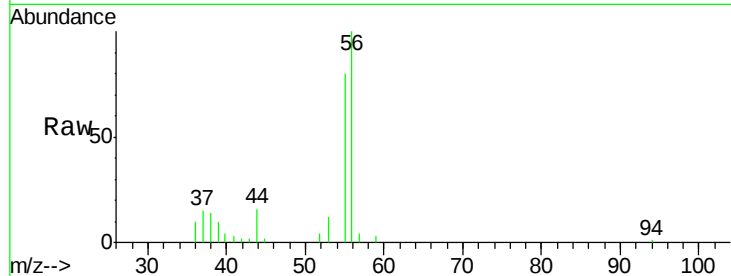
55 80.1 51.4 77.2#

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 46.609 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

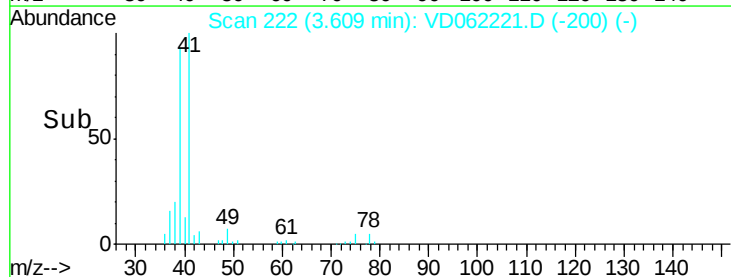
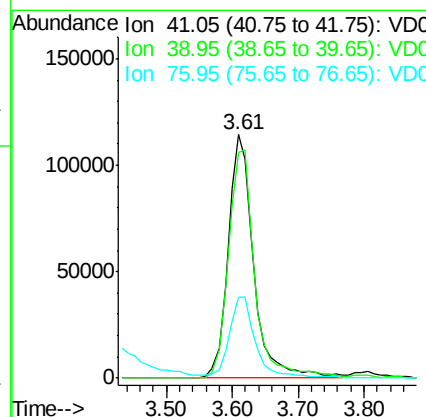
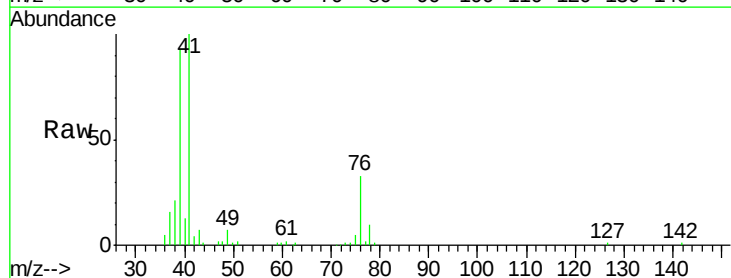
Tgt Ion: 41 Resp: 310772

Ion Ratio Lower Upper

41 100

39 92.9 60.5 90.7#

76 33.1 31.8 47.8





#15

Acrylonitrile

Concen: 233.991 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

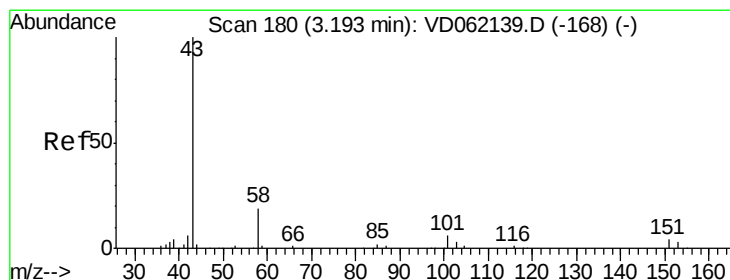
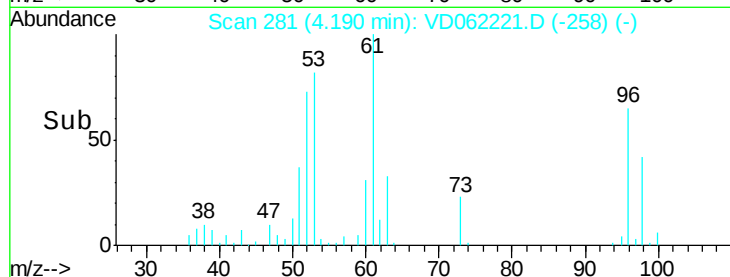
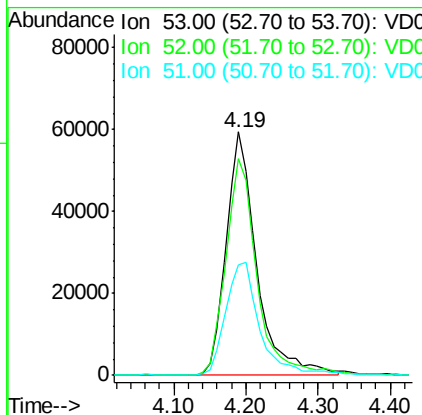
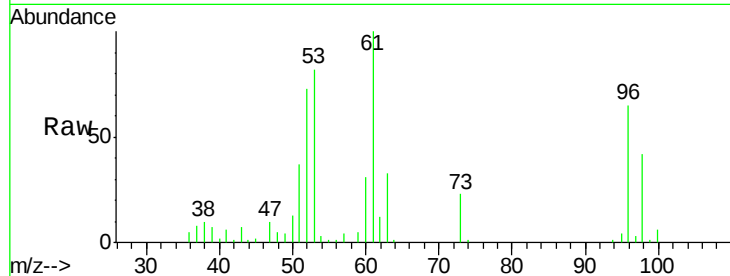
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	175466
Ion Ratio	Lower	Upper	
53	100		
52	88.8	65.0	97.4
51	45.4	32.6	48.8

Manual Integrations
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#16

Acetone

Concen: 266.702 ug/l

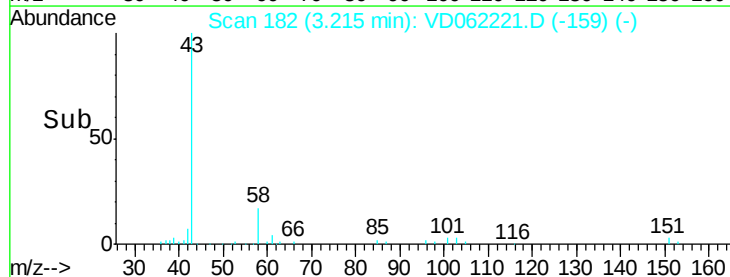
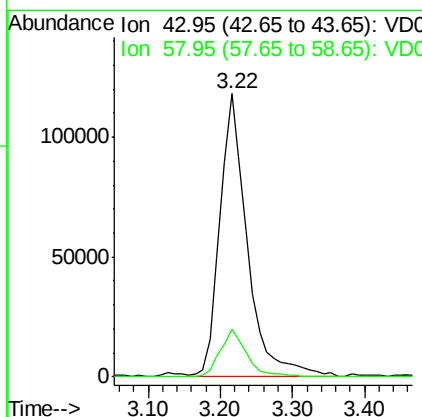
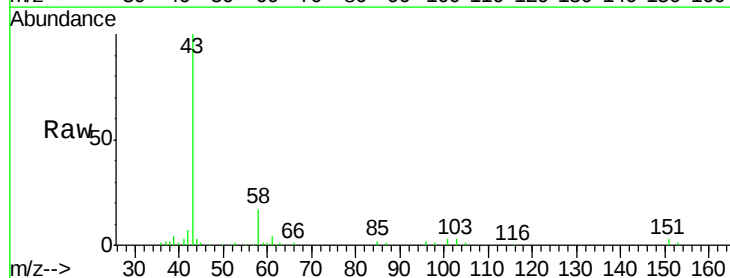
RT: 3.22 min Scan# 182

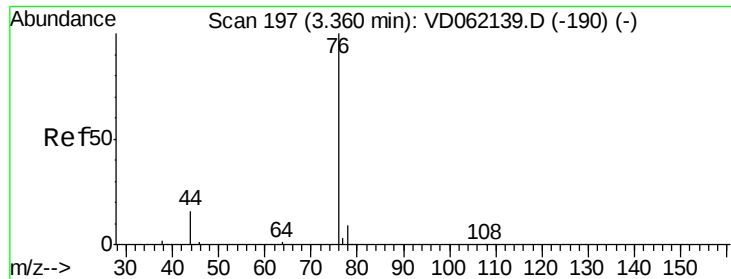
Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	43	Resp:	312601
Ion Ratio	Lower	Upper	
43	100		
58	16.8	19.9	29.9#





#17

Carbon Disulfide

Concen: 46.874 ug/l

RT: 3.36 min Scan# 197

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 618349

Ion Ratio Lower Upper

76 100

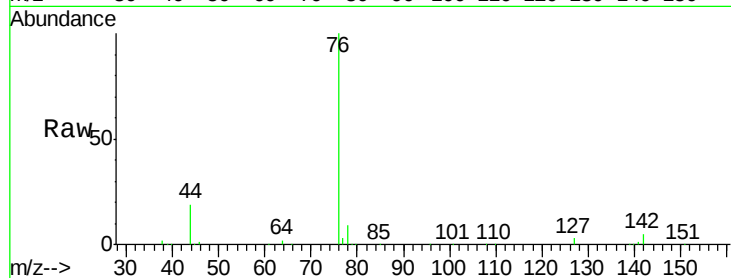
78 8.8 7.2 10.8

Manual Integrations

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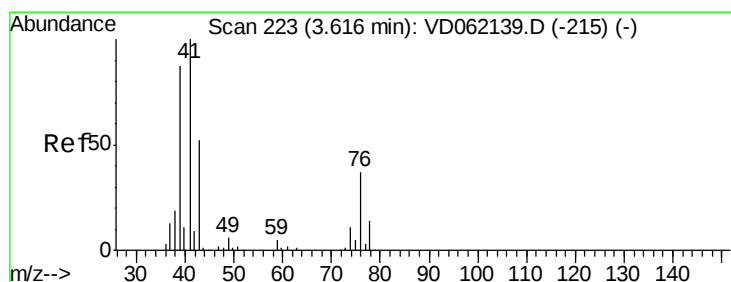
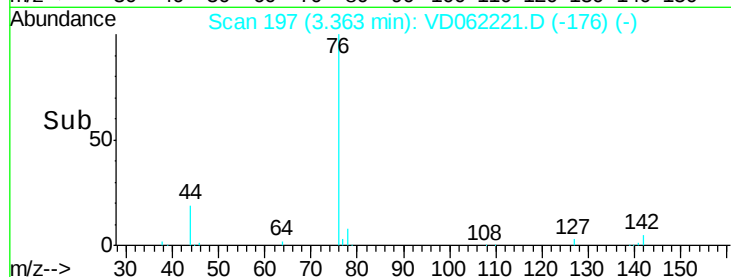
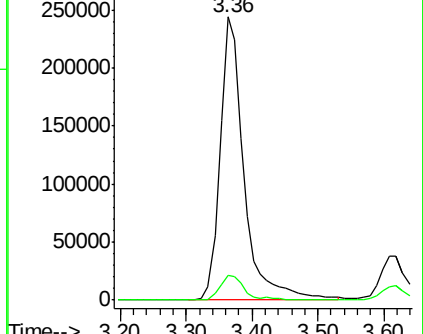
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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 46.610 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.02 min

Lab File: VD062221.D

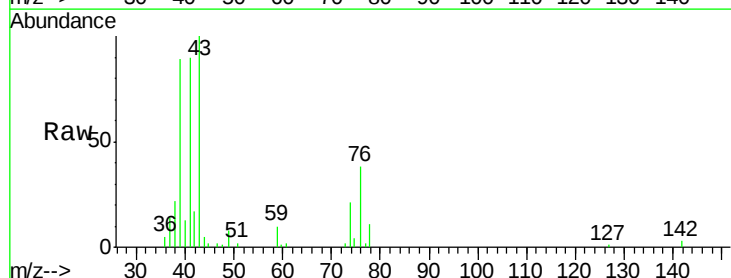
Acq: 10 May 2019 17:54

Tgt Ion: 43 Resp: 97751

Ion Ratio Lower Upper

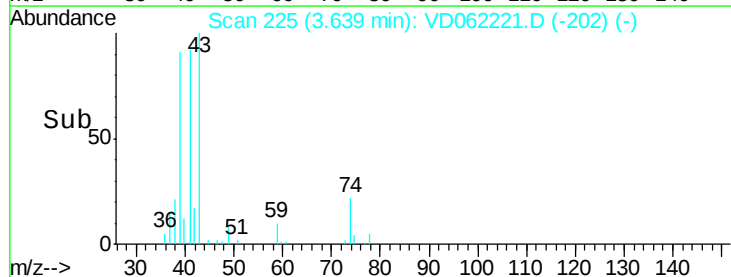
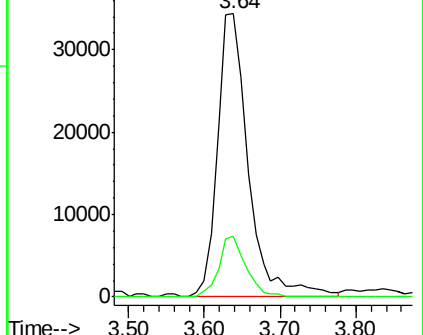
43 100

74 21.5 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

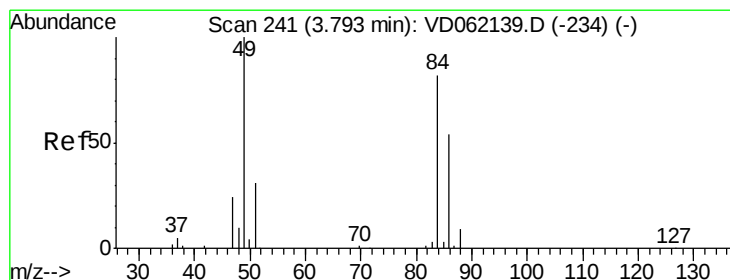
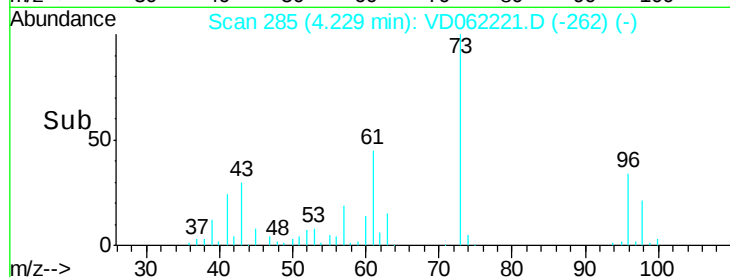
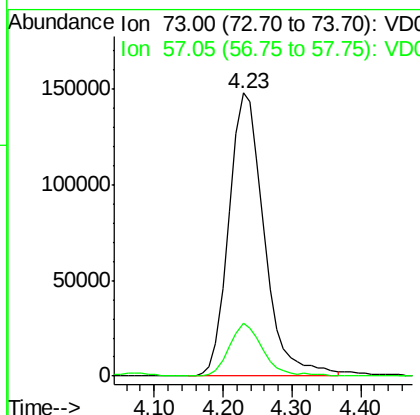
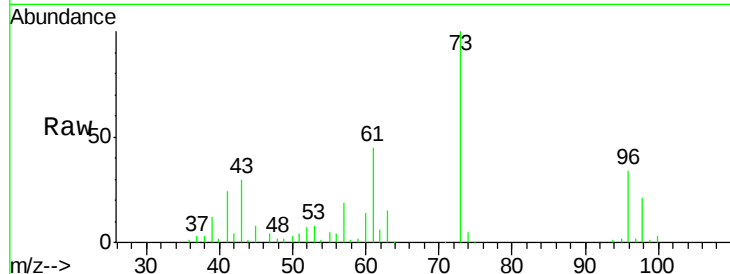
Methyl tert-butyl Ether
 Concen: 53.457 ug/l
 RT: 4.23 min Scan# 285
 Delta R.T. 0.02 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.6	16.3	24.5

Manual Integrations
 APPROVED

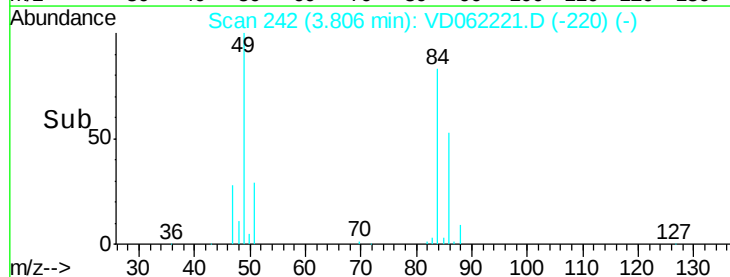
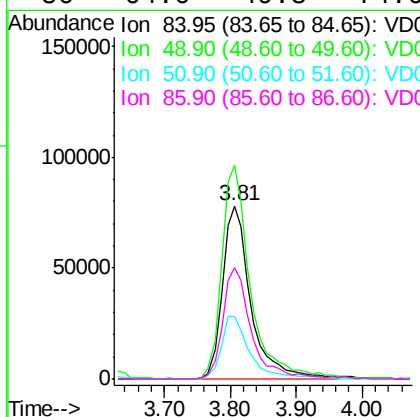
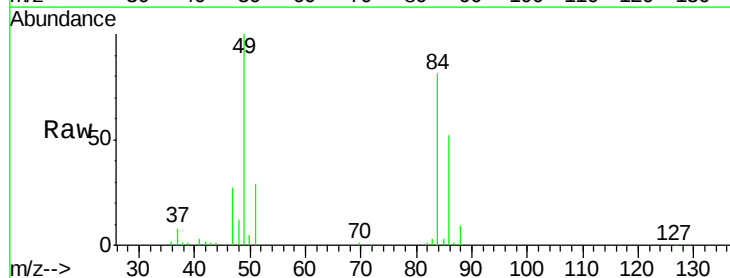
MMDadoda
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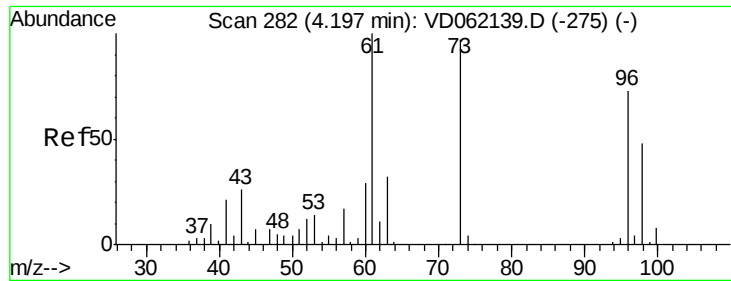


#20

Methylene Chloride
 Concen: 48.113 ug/l
 RT: 3.81 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
84	100		
49	123.5	94.0	141.0
51	36.3	29.0	43.4
86	64.0	49.8	74.6





#21

trans-1,2-Dichloroethene

Concen: 52.390 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

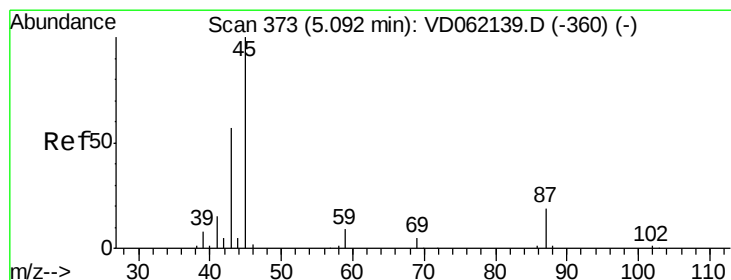
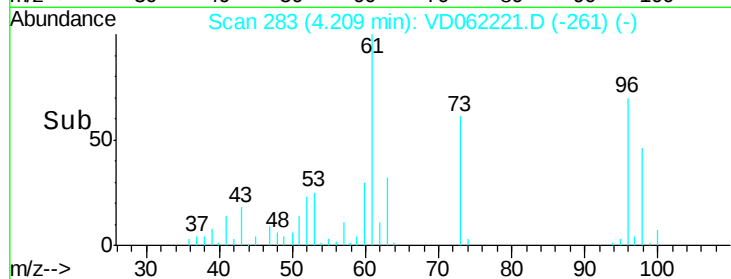
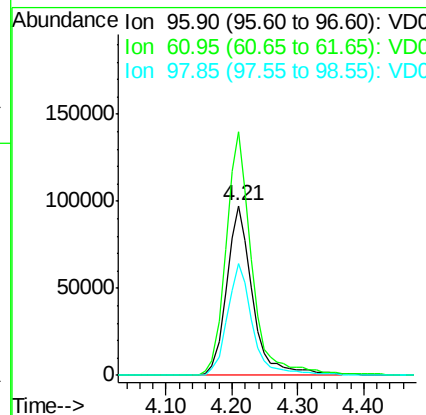
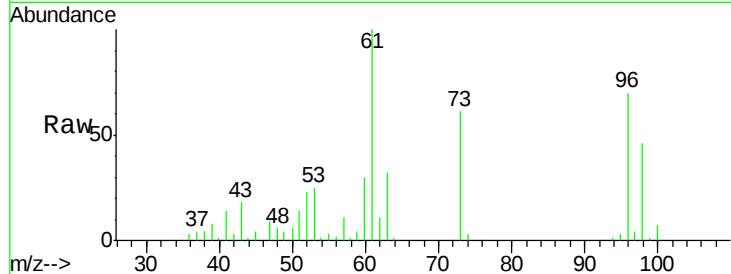
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	267341
Ion	Ratio	Lower	Upper
96	100		
61	143.4	104.4	156.6
98	65.7	51.8	77.8

Manual Integrations
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MMDadoda
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#22

Diisopropyl ether

Concen: 52.013 ug/l

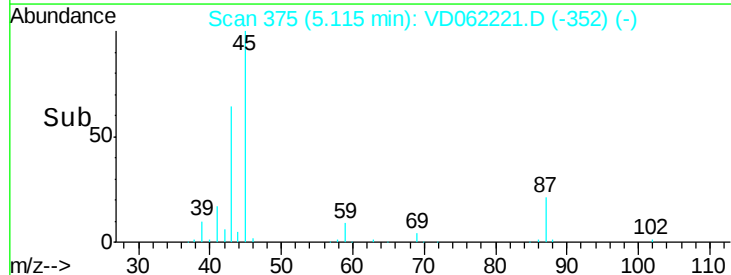
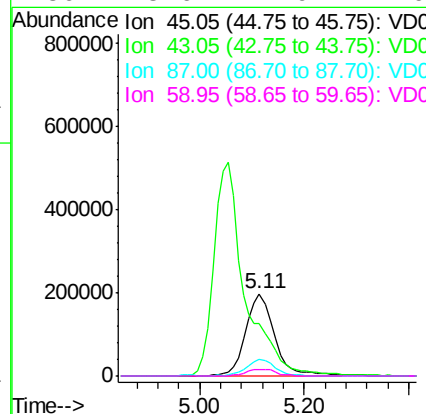
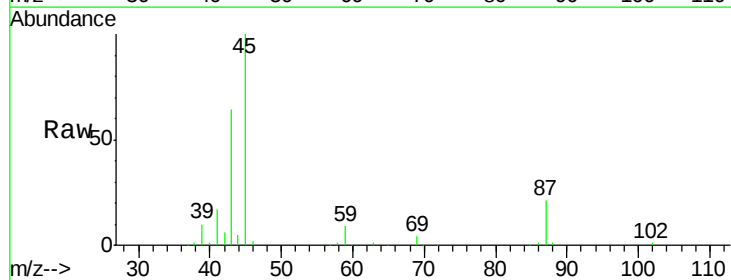
RT: 5.11 min Scan# 375

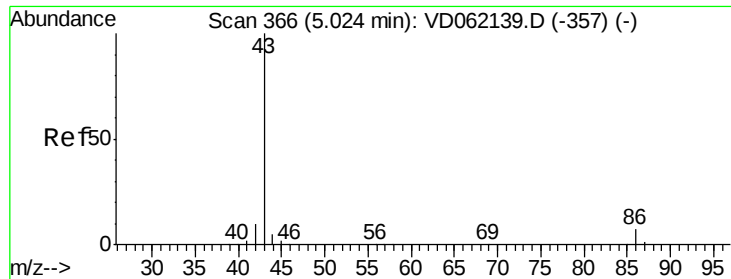
Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	45	Resp:	737996
Ion	Ratio	Lower	Upper
45	100		
43	63.8	46.2	69.2
87	20.7	15.9	23.9
59	8.6	7.9	11.9





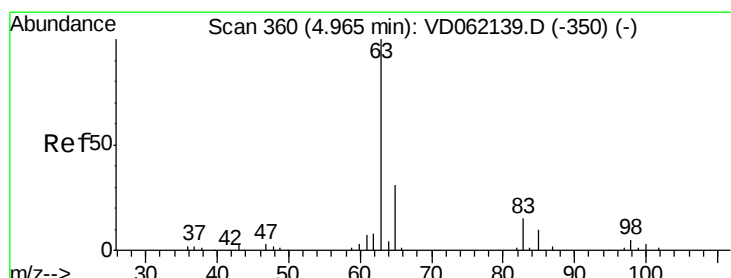
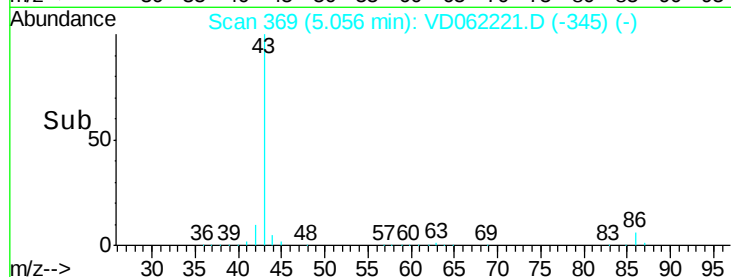
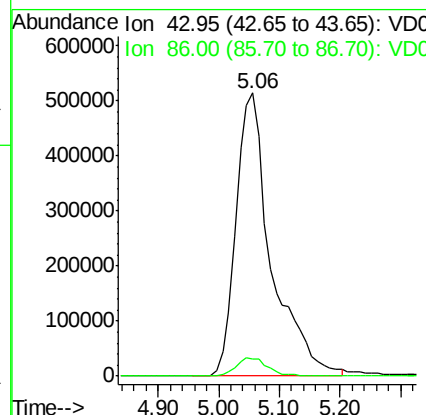
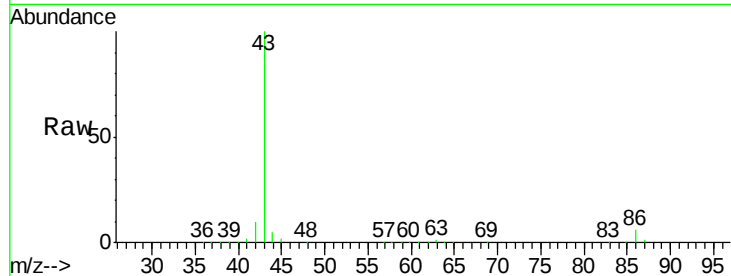
#23
 Vinyl Acetate
 Concen: 278.226 ug/l
 RT: 5.06 min Scan# 369
 Delta R.T. 0.03 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion: 43 Resp: 2082828
 Ion Ratio Lower Upper
 43 100
 86 6.2 6.4 9.6#

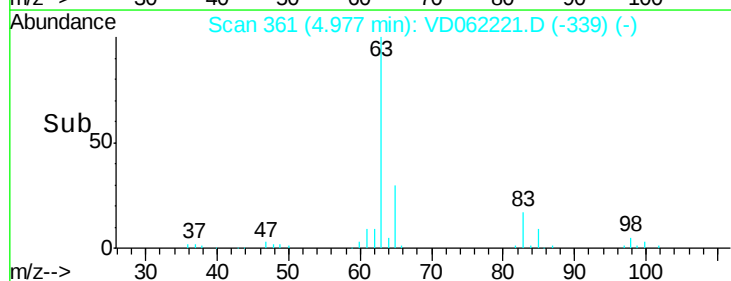
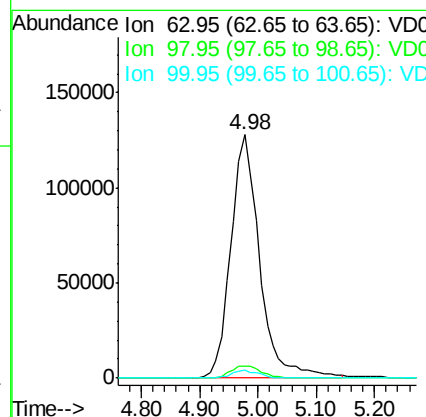
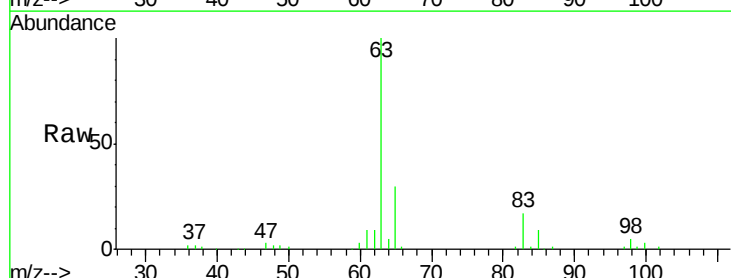
Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 4:04:05 AM



#24
 1,1-Dichloroethane
 Concen: 51.414 ug/l
 RT: 4.98 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion: 63 Resp: 440080
 Ion Ratio Lower Upper
 63 100
 98 5.1 2.8 8.4
 100 3.2 1.8 5.5





#25

2-Butanone

Concen: 258.265 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 330187

Ion Ratio Lower Upper

43 100

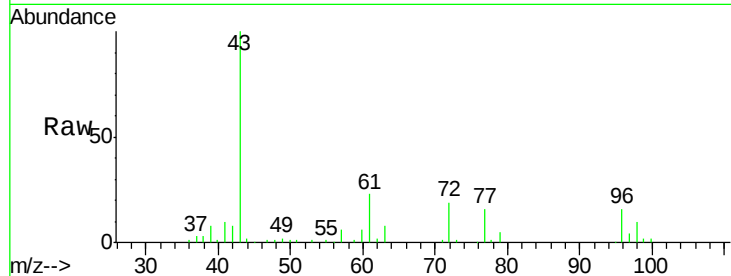
72 19.0 16.2 24.4

Manual Integrations

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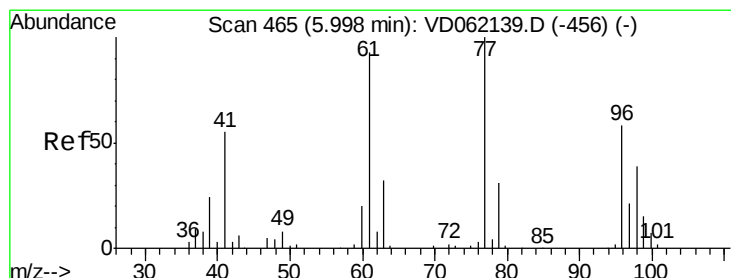
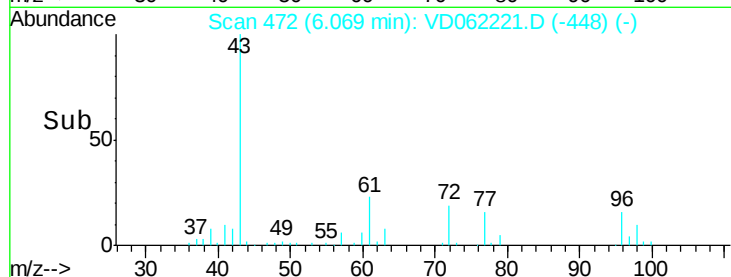
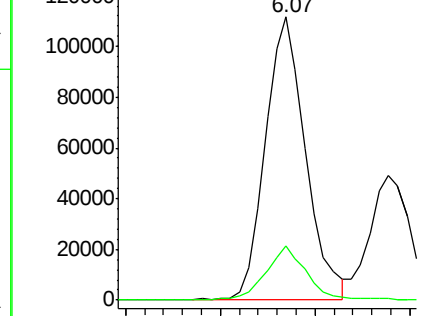
MMDadoda

5/13/2019 4:04:05 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 52.564 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.02 min

Lab File: VD062221.D

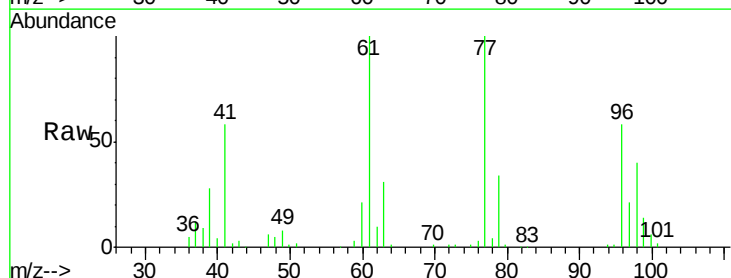
Acq: 10 May 2019 17:54

Tgt Ion: 77 Resp: 448176

Ion Ratio Lower Upper

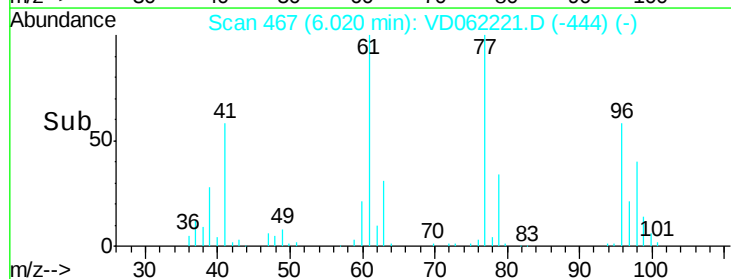
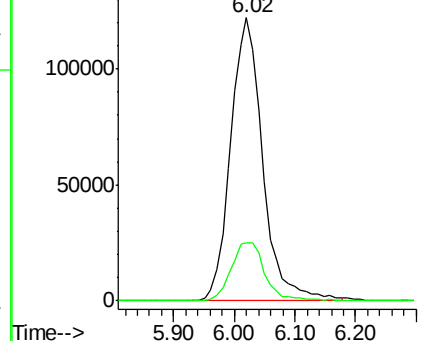
77 100

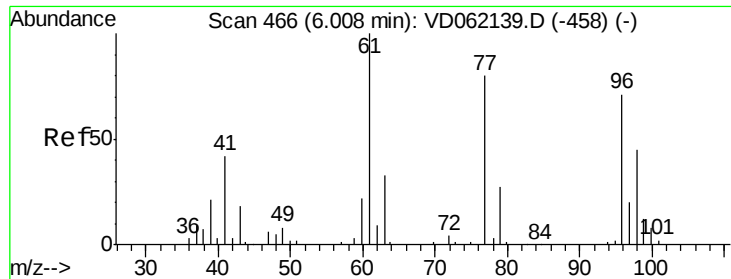
97 20.6 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

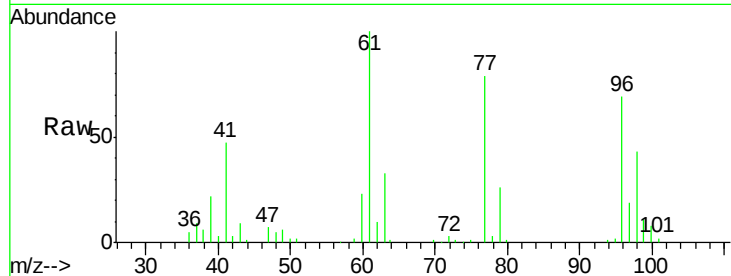
cis-1,2-Dichloroethene
Concen: 48.743 ug/l
RT: 6.03 min Scan# 468
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

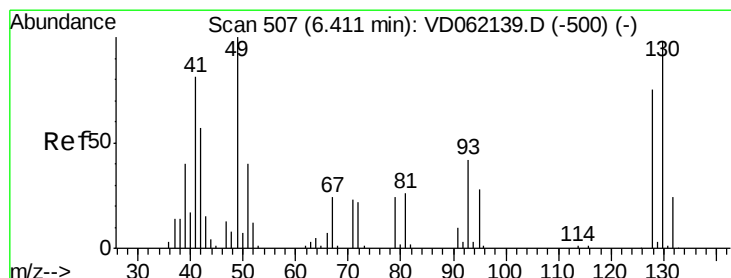
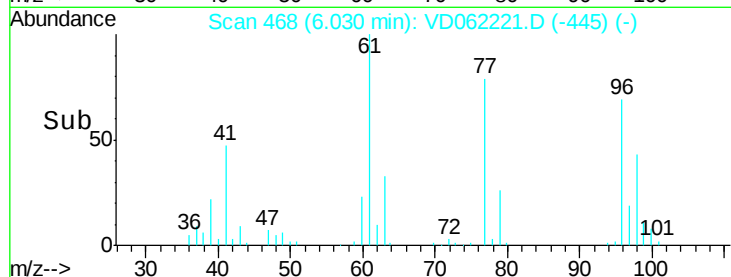
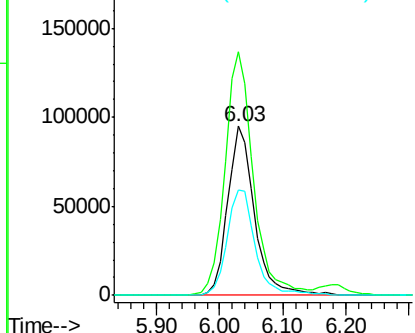
Tot Ion	Ratio	Resp	Lower	Upper
96	100	278414		
61	144.1	0.0	279.8	
98	62.6	0.0	136.0	

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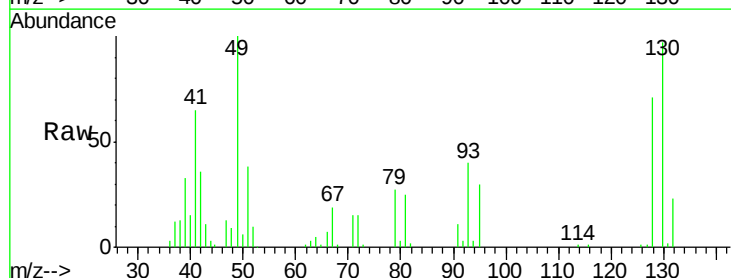
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



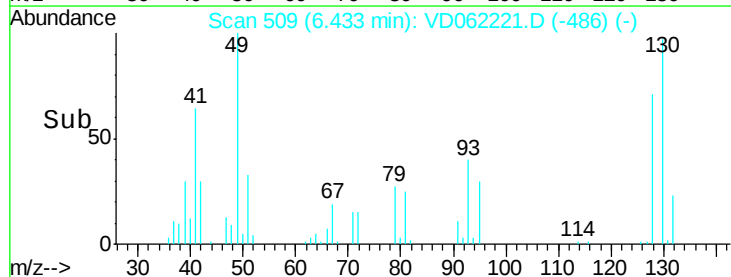
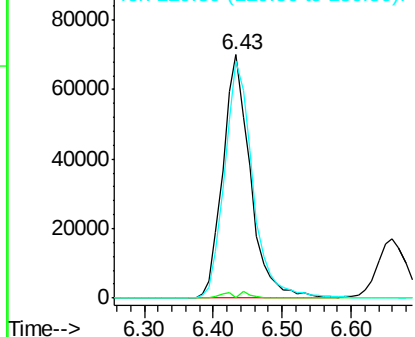
#28

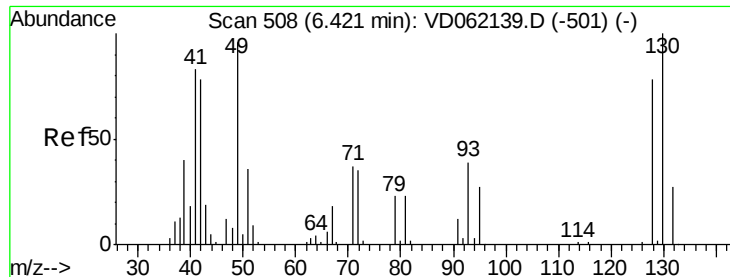
Bromochloromethane
Concen: 57.664 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	194191		
129	0.0	0.0	6.6	
130	97.3	86.7	130.1	



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





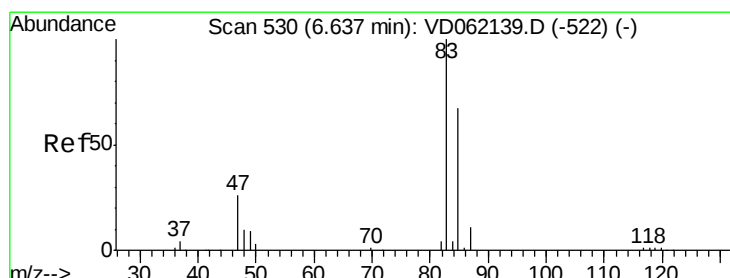
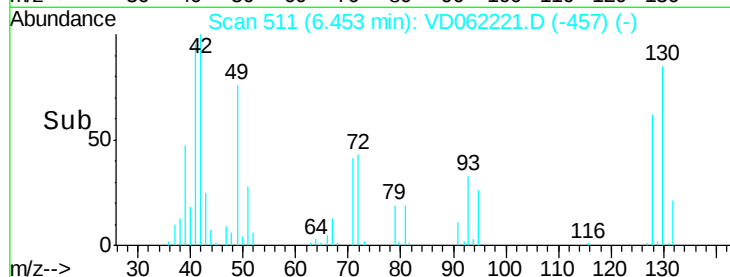
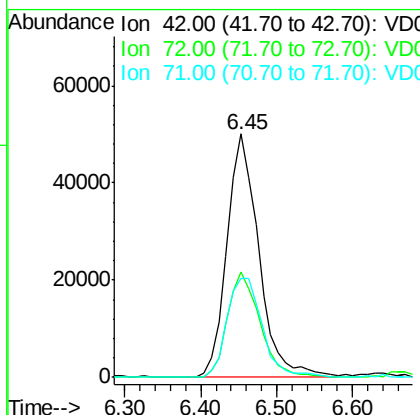
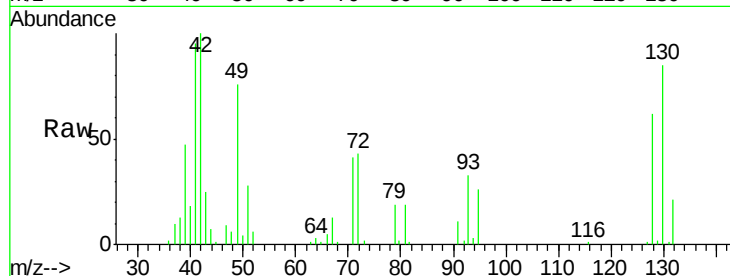
#29
Tetrahydrofuran
Concen: 248.642 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.9	37.8	56.6
71	44.8	36.7	55.1

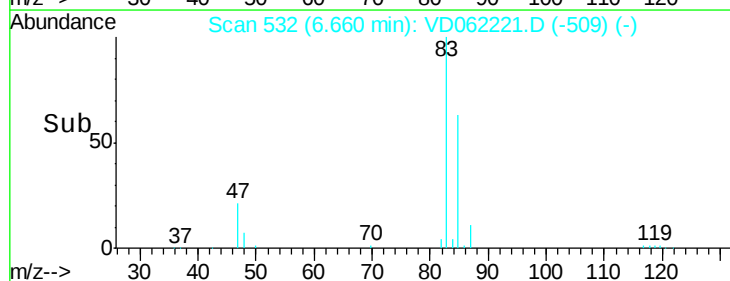
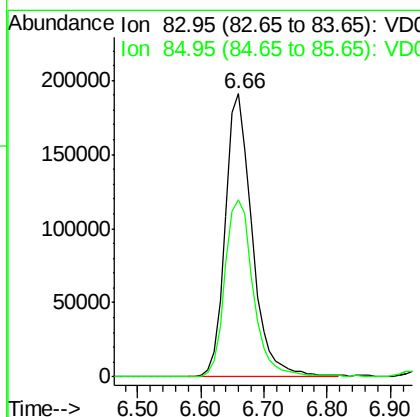
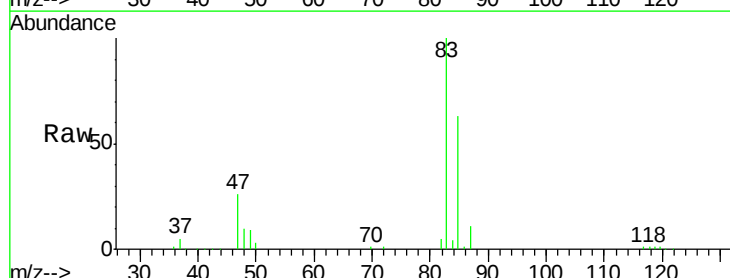
Manual Integrations
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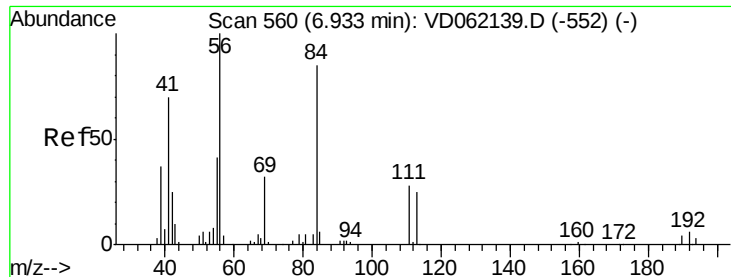
MMDadoda
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#30
Chloroform
Concen: 54.456 ug/l
RT: 6.66 min Scan# 532
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.7	77.5





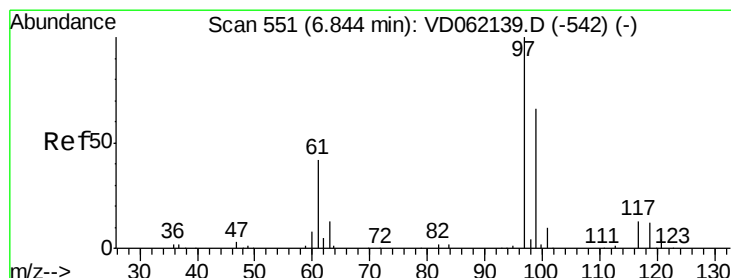
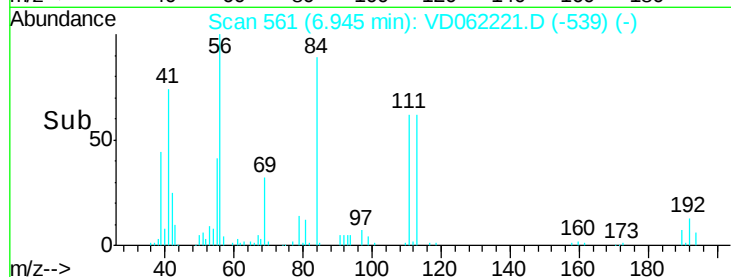
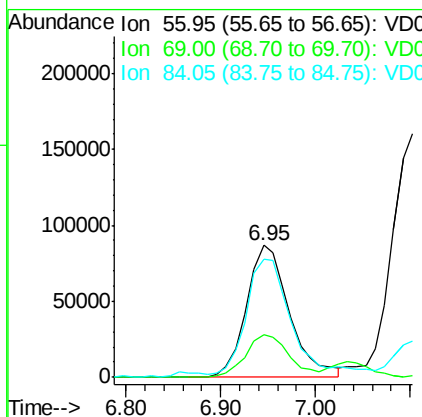
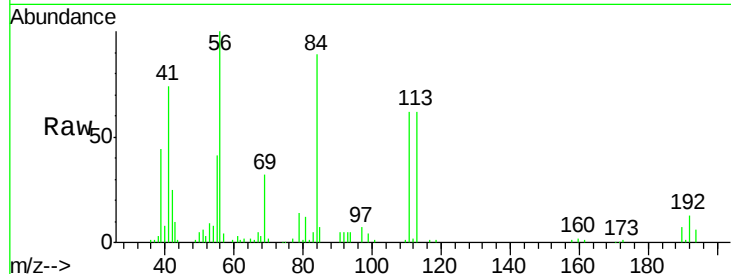
#31
Cyclohexane
Concen: 46.662 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.2	25.8	38.6
84	89.4	72.2	108.4

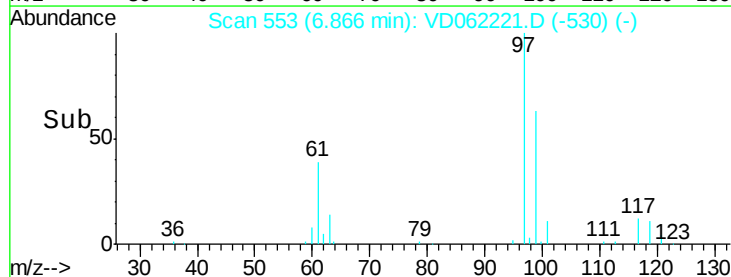
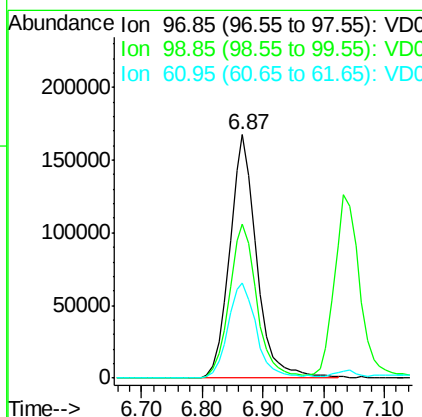
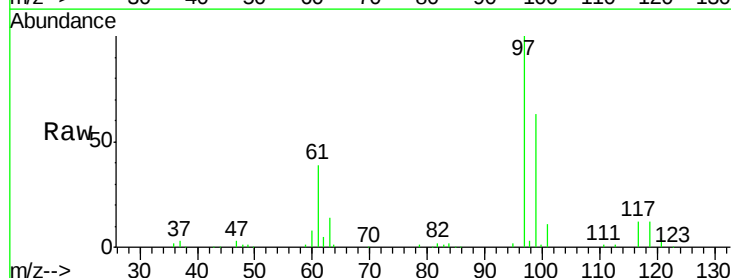
Manual Integrations
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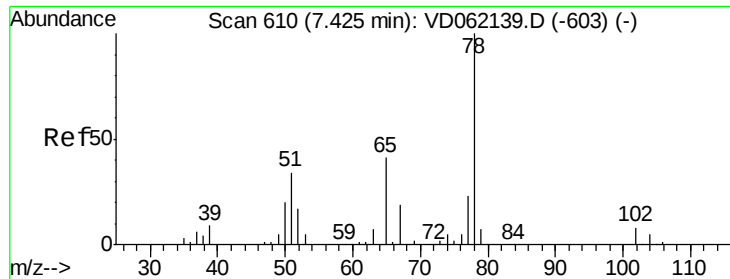
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#32
1,1,1-Trichloroethane
Concen: 52.847 ug/l
RT: 6.87 min Scan# 553
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	52.2	78.2
61	39.2	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 61.368 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tot Ion: 65 Resp: 342992

Ion Ratio Lower Upper

65 100

67 47.2 0.0 98.0

Instrument :

MSVOA_D

ClientSampled :

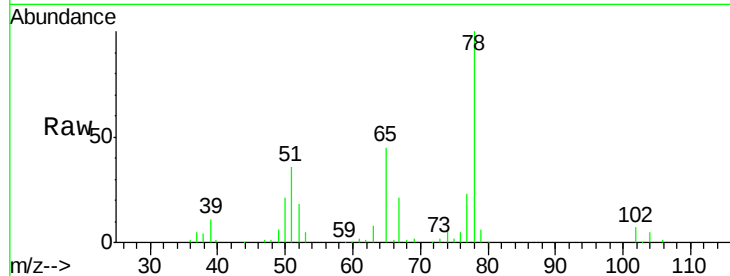
VSTDCCC050

Manual Integrations

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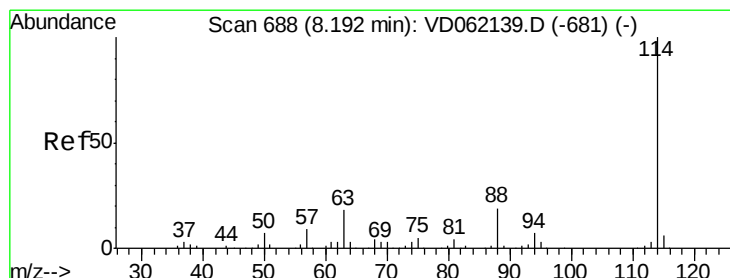
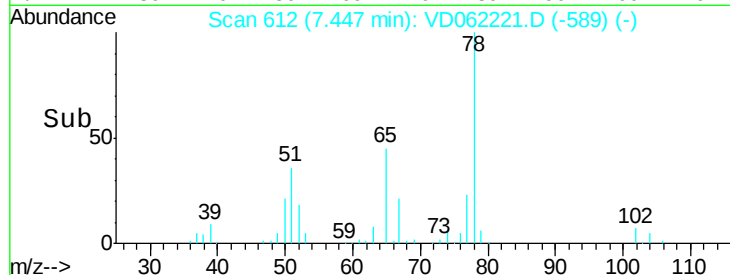
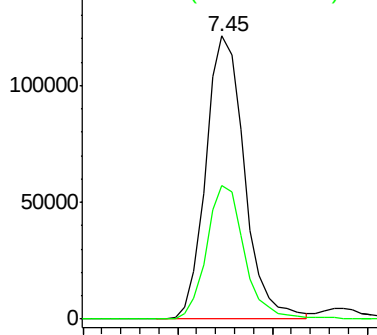
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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

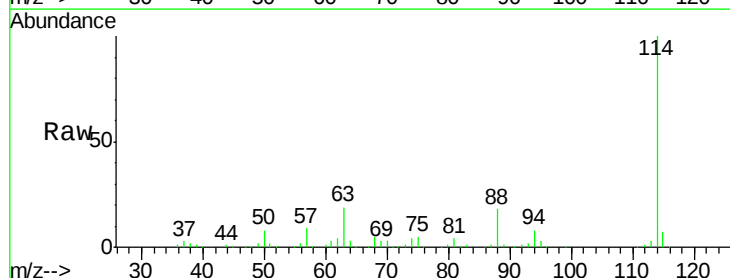
Tgt Ion: 114 Resp: 838522

Ion Ratio Lower Upper

114 100

63 19.3 0.0 32.4

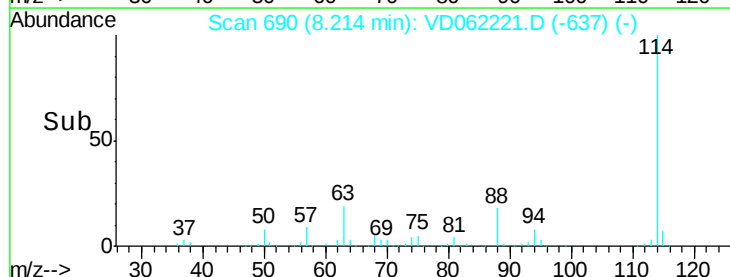
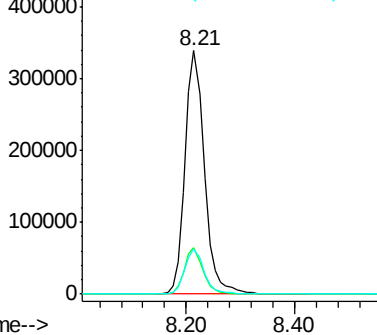
88 18.5 0.0 33.6

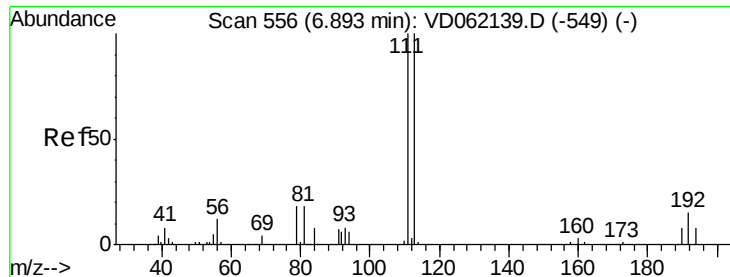


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 55.947 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

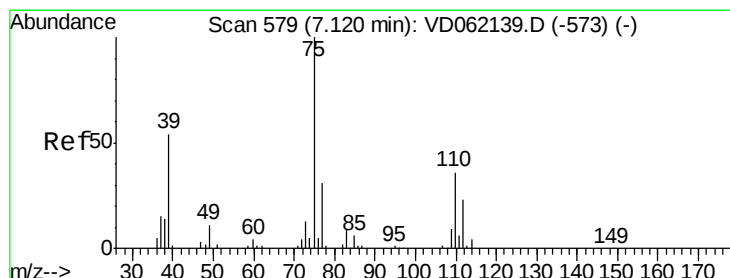
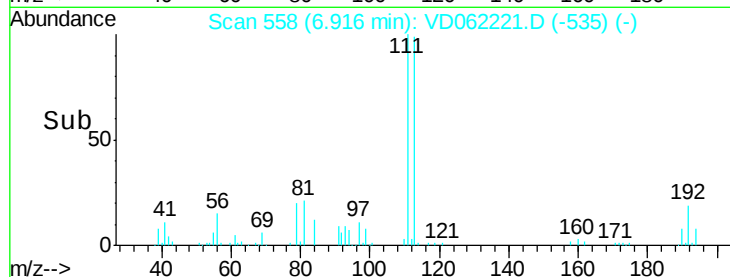
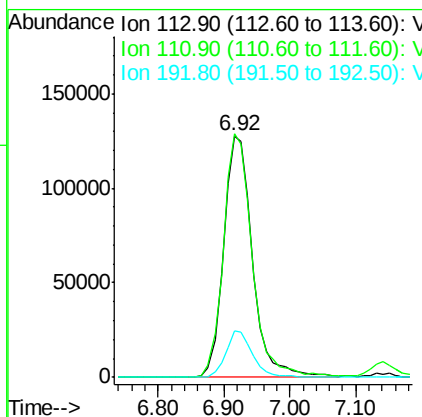
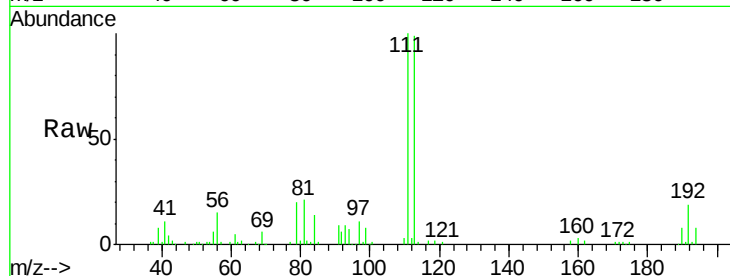
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	389239
Ion	Ratio	Lower	Upper
113	100		
111	101.0	78.5	117.7
192	19.2	13.0	19.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 52.328 ug/l

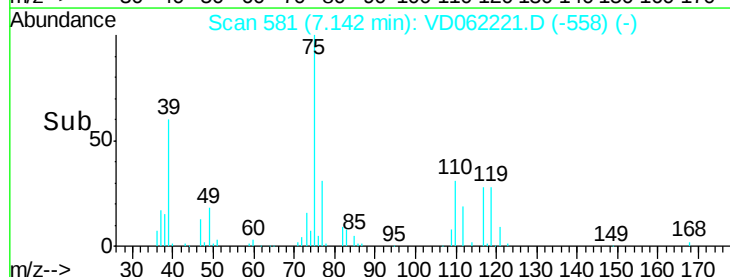
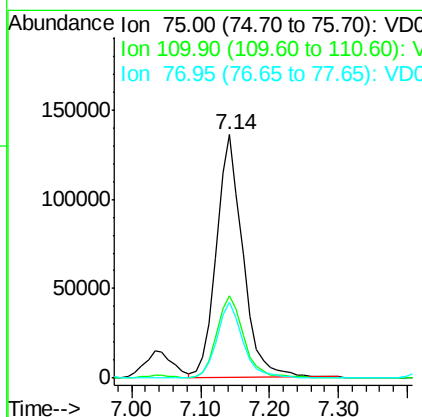
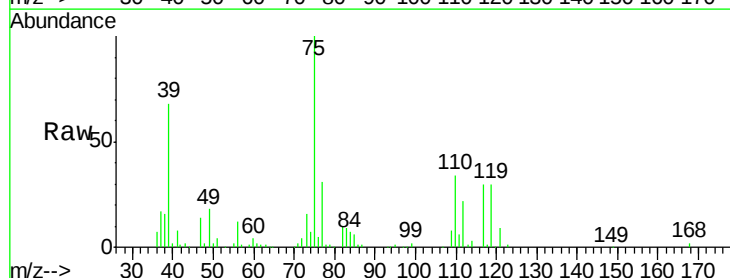
RT: 7.14 min Scan# 581

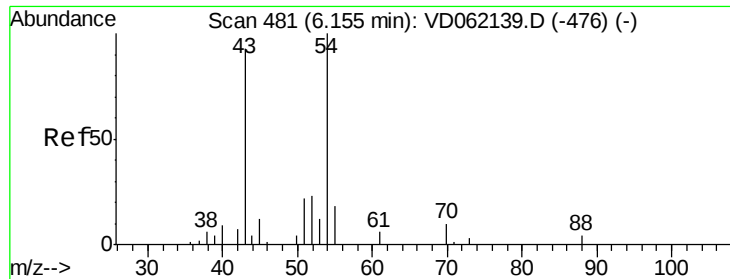
Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	75	Resp:	359758
Ion	Ratio	Lower	Upper
75	100		
110	33.7	19.1	57.1
77	31.4	25.6	38.4





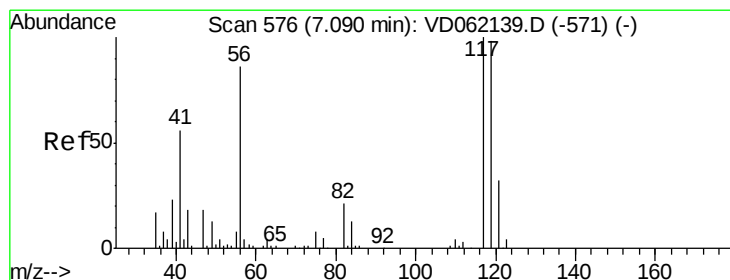
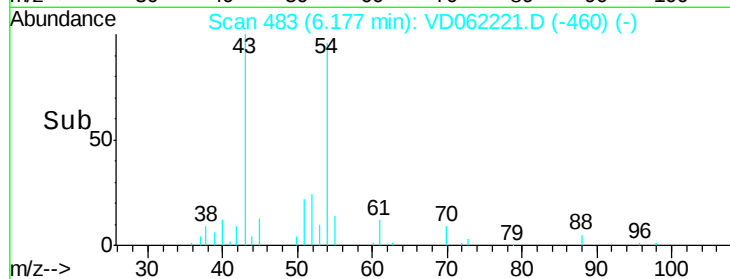
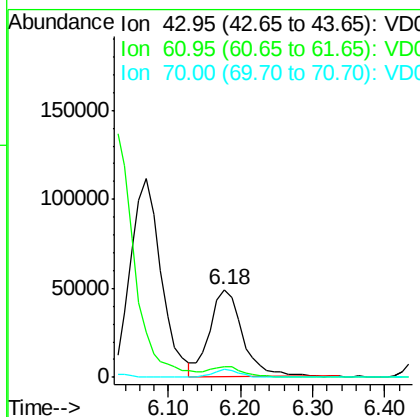
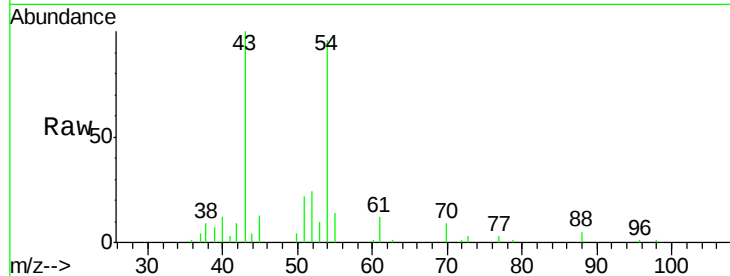
#37
Ethyl Acetate
Concen: 53.198 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	14.7	22.1#
70	8.8	7.8	11.6

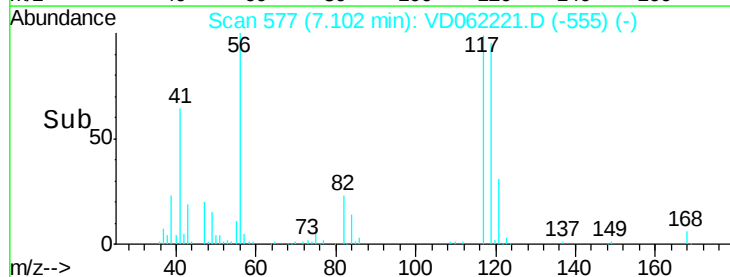
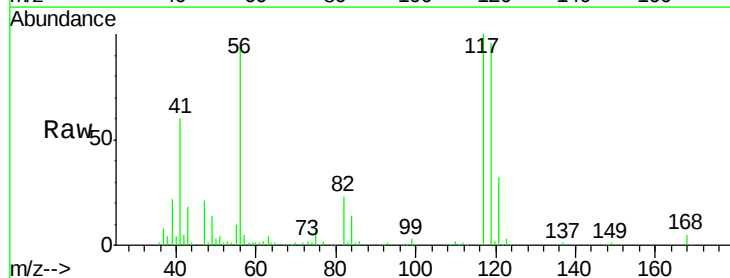
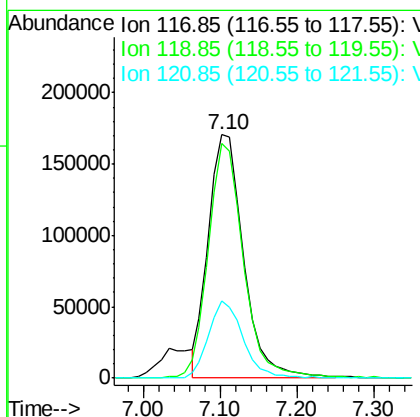
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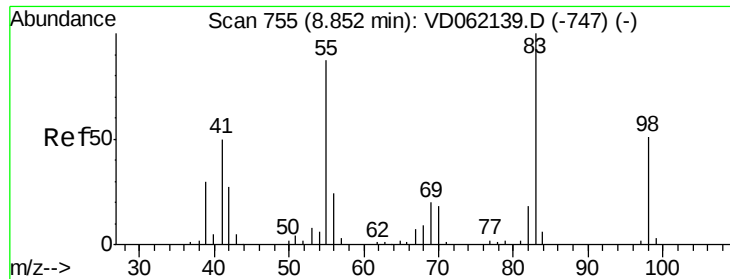
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#38
Carbon Tetrachloride
Concen: 57.024 ug/l m
RT: 7.10 min Scan# 577
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	113.8
121	31.7	25.9	38.9





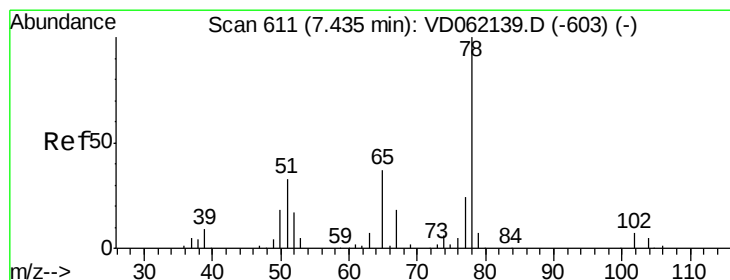
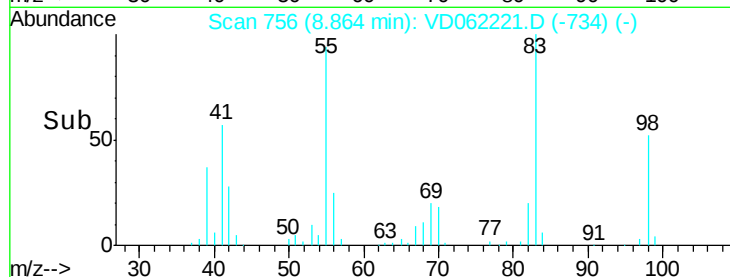
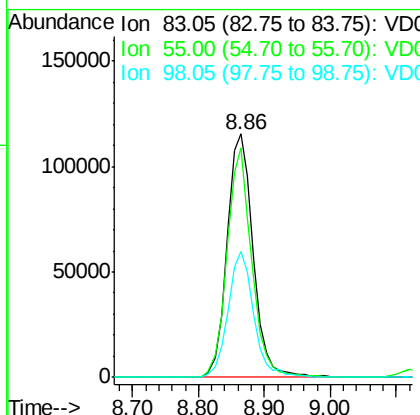
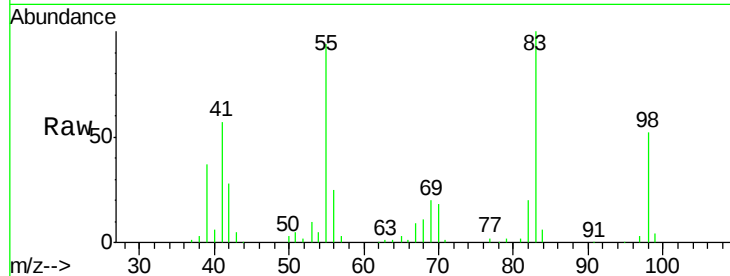
#39
Methvlcvclohexane
Concen: 48.618 ug/l
RT: 8.86 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	320254
Ion	Ratio	Lower	Upper
83	100		
55	94.4	68.2	102.4
98	51.8	38.2	57.4

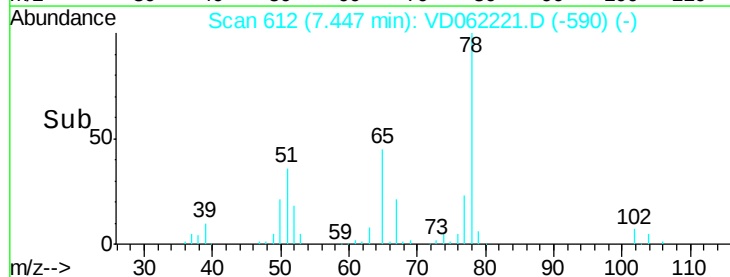
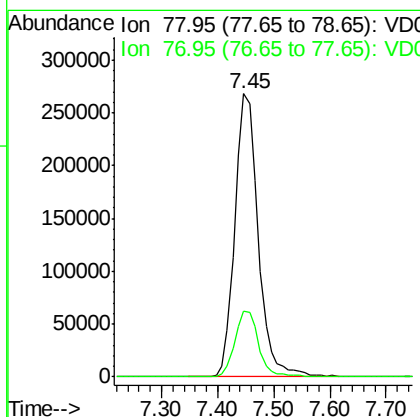
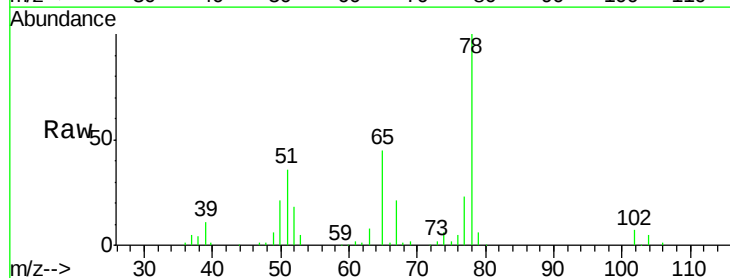
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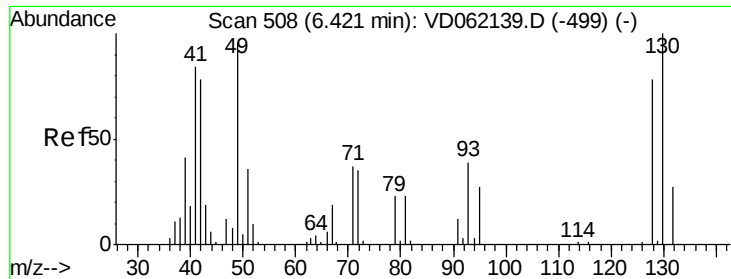
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#40
Benzene
Concen: 50.145 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	78	Resp	778481
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.7	29.5





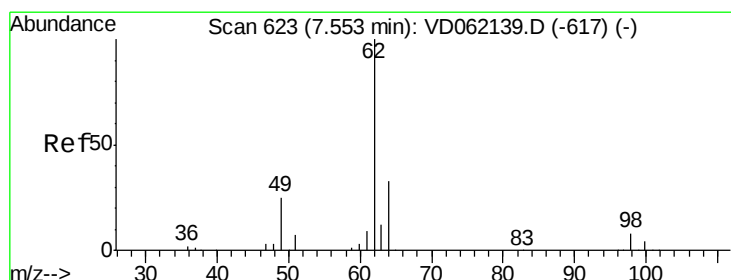
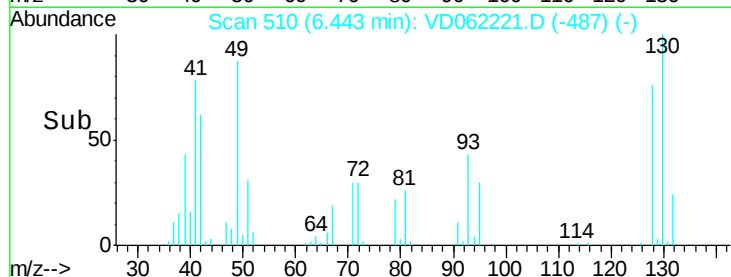
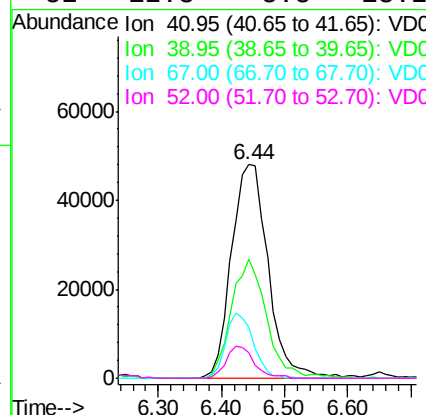
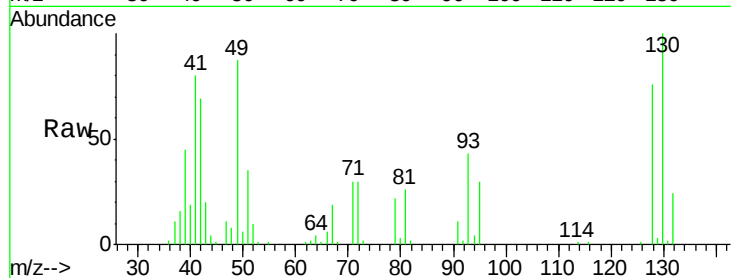
#41
Methacrylonitrile
Concen: 54.243 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	55.8	34.1	51.1#	
67	24.0	23.8	35.6	
52	12.3	8.8	13.2	

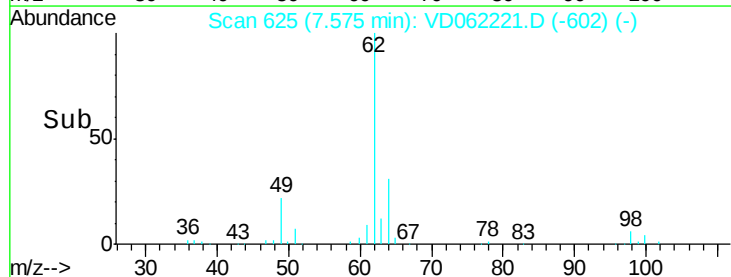
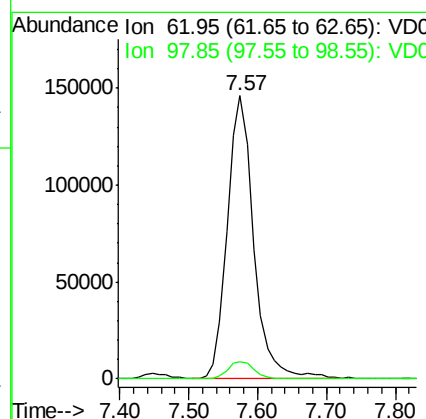
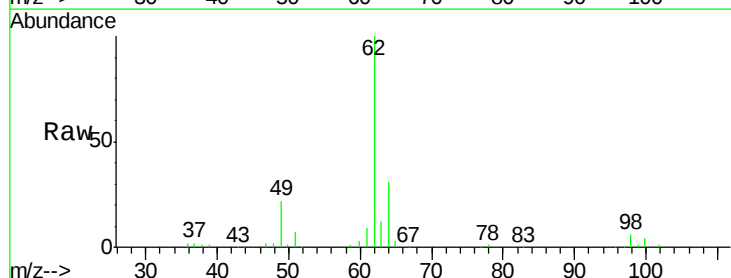
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 59.015 ug/l
RT: 7.57 min Scan# 625
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	5.9	0.0	17.8	





#43

Isopropyl Acetate

Concen: 49.486 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

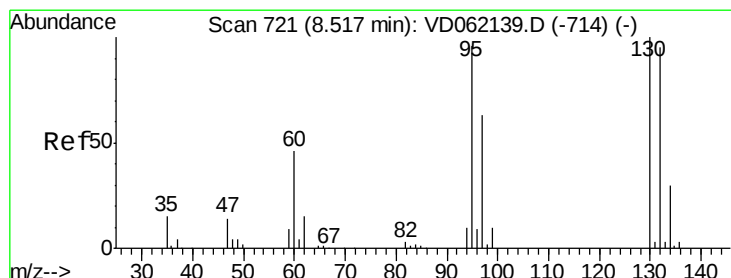
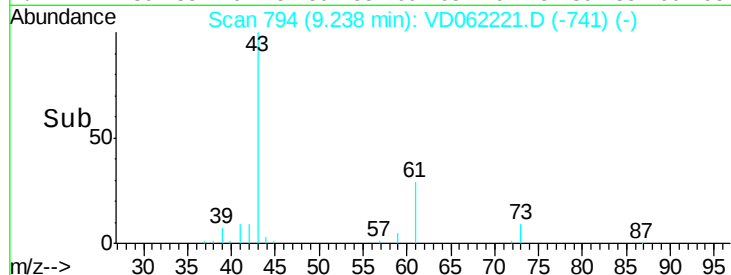
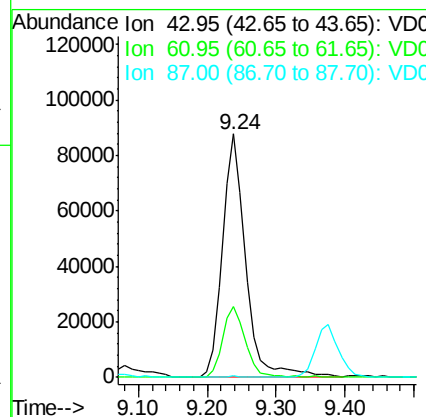
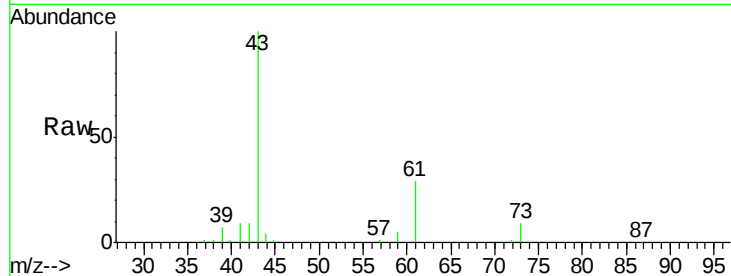
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	204625
Ion Ratio	Lower	Upper	
43	100		
61	29.3	25.1	37.7
87	0.5	0.0	0.0

Manual Integrations
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#44

Trichloroethene

Concen: 50.777 ug/l

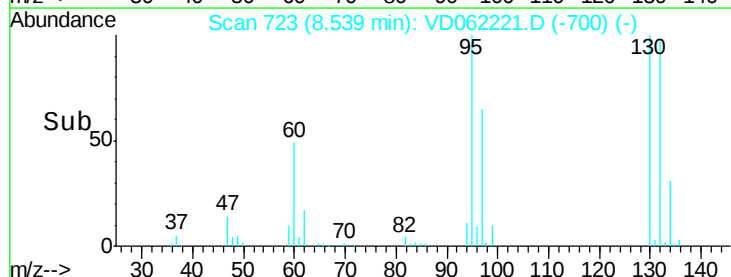
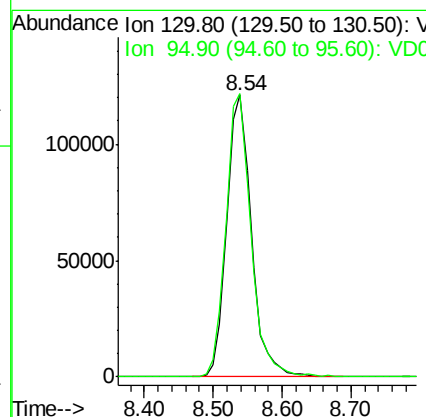
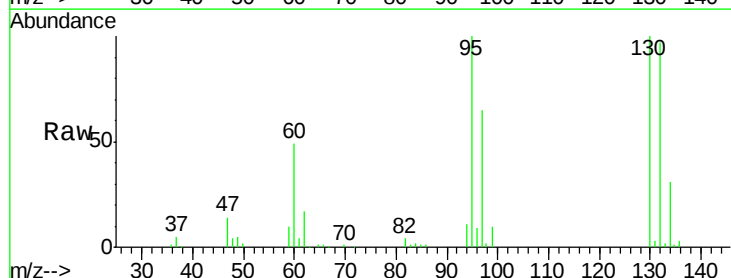
RT: 8.54 min Scan# 723

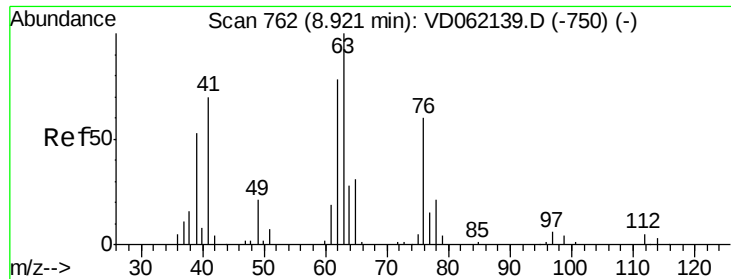
Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	130	Resp:	300388
Ion Ratio	Lower	Upper	
130	100		
95	100.5	0.0	174.0





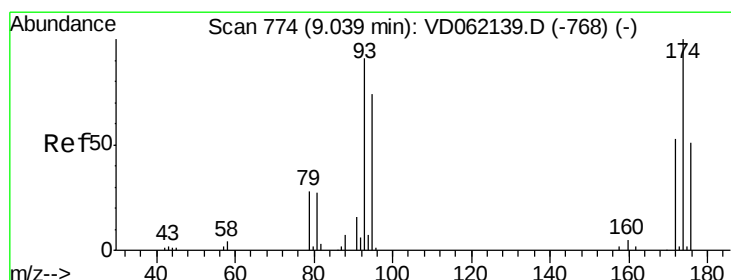
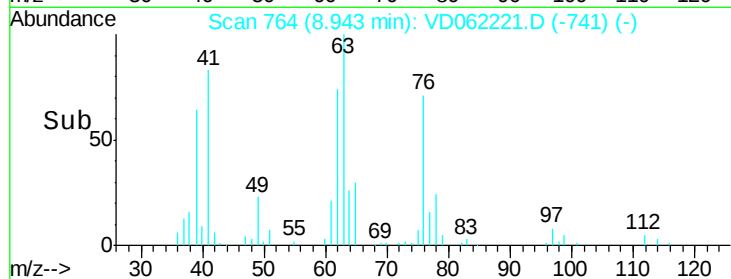
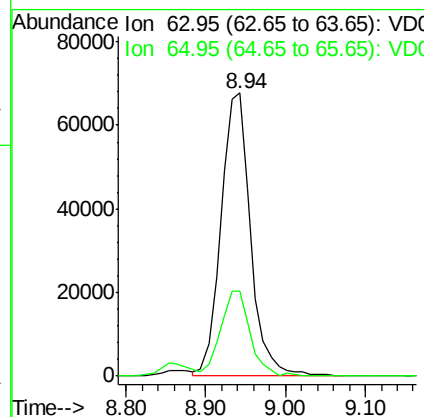
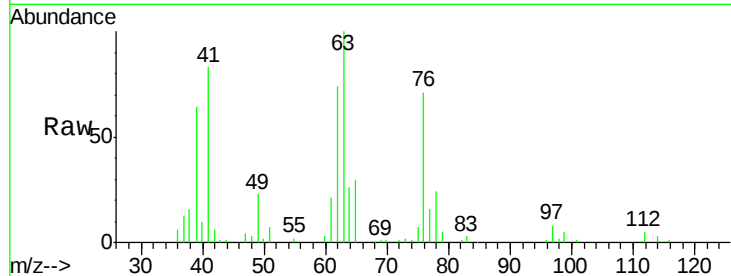
#45
 1,2-Dichloropropane
 Concen: 46.088 ug/l
 RT: 8.94 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 176981
 Ion Ratio Lower Upper
 63 100
 65 30.1 23.8 35.6

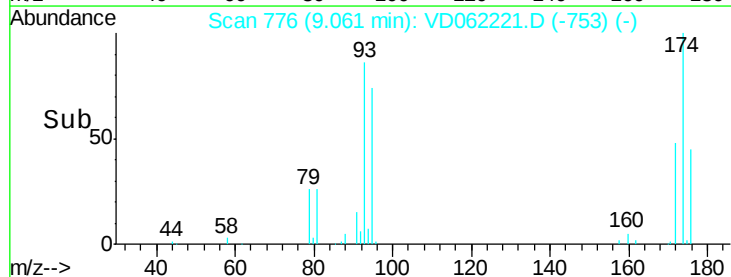
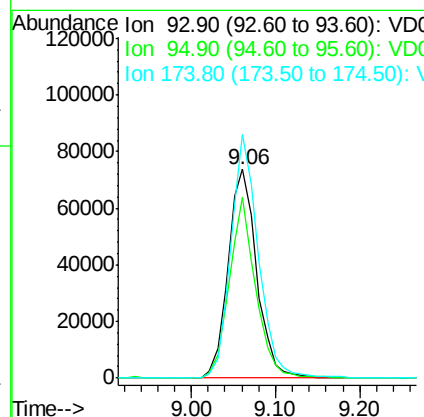
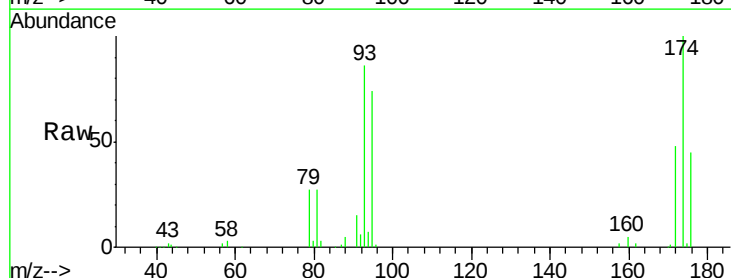
Manual Integrations
 APPROVED

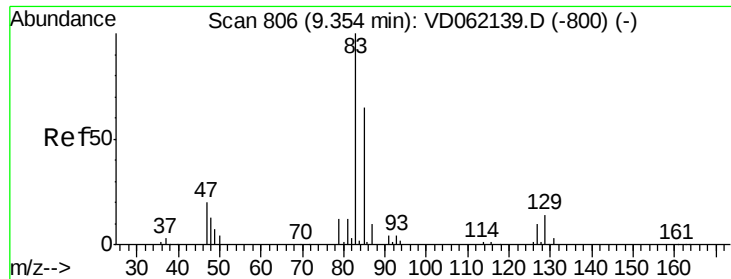
MMDadoda
 5/13/2019 4:04:05 AM



#46
 Dibromomethane
 Concen: 55.542 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. 0.02 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion: 93 Resp: 173442
 Ion Ratio Lower Upper
 93 100
 95 86.7 64.8 97.2
 174 116.7 79.3 118.9





#47

Bromodichloromethane

Concen: 57.788 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

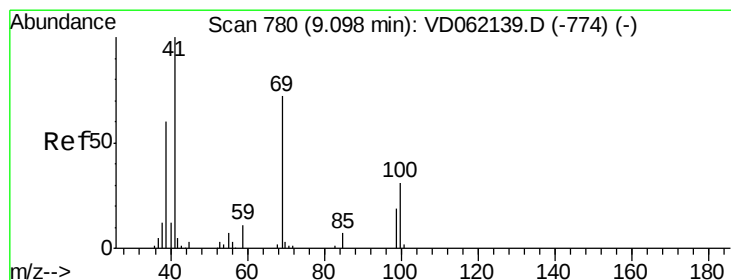
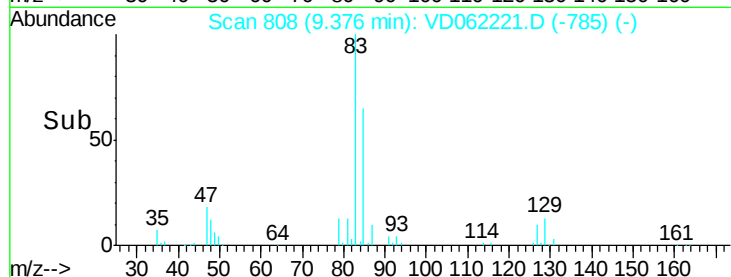
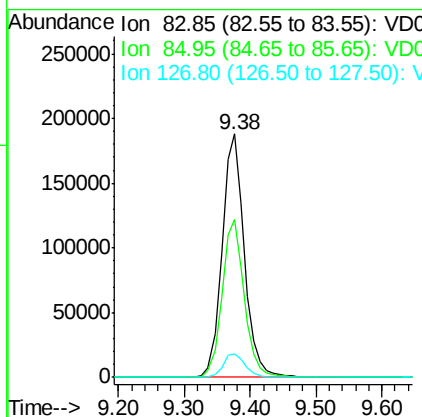
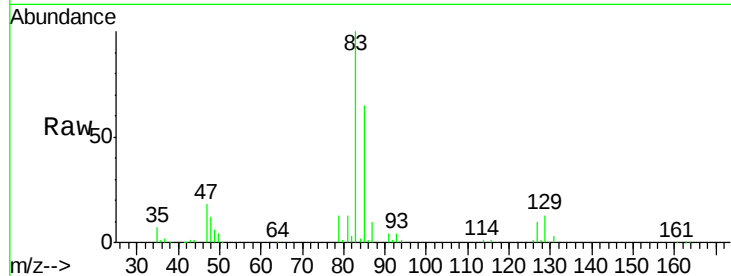
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	441393
Ion Ratio	Lower	Upper	
83	100		
85	65.0	50.9	76.3
127	9.6	8.1	12.1

Manual Integrations
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MMDadoda
5/13/2019 4:04:05 AM



#48

Methyl methacrylate

Concen: 51.657 ug/l

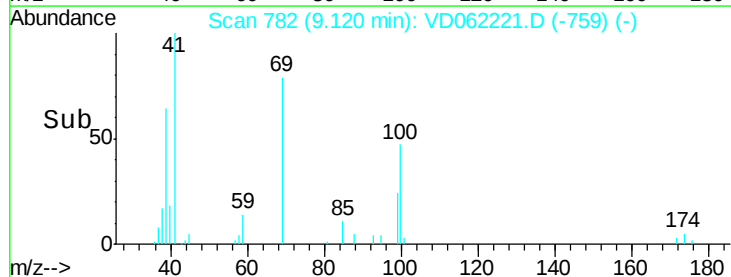
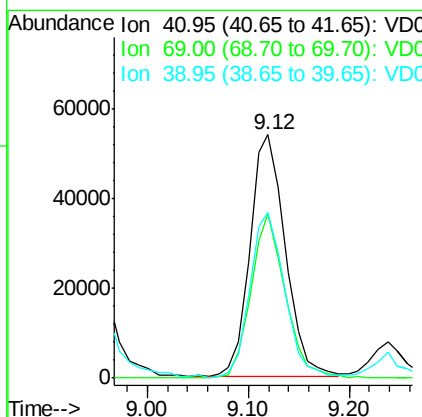
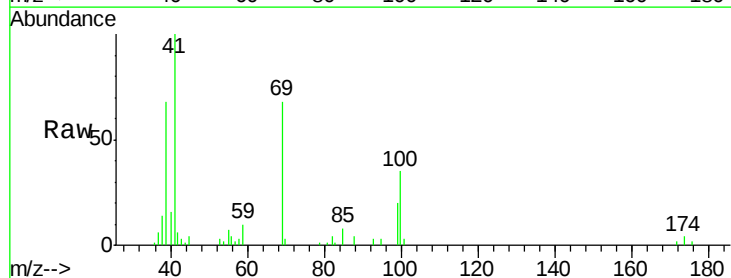
RT: 9.12 min Scan# 782

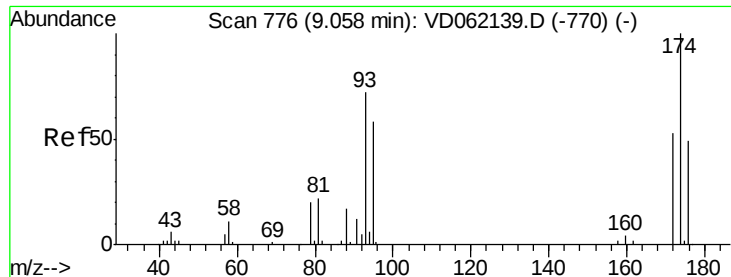
Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	41	Resp:	131570
Ion Ratio	Lower	Upper	
41	100		
69	67.7	64.2	96.2
39	68.2	46.8	70.2





#49

1,4-Dioxane

Concen: 975.732 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

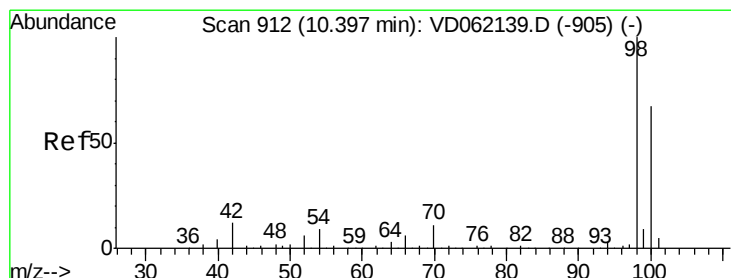
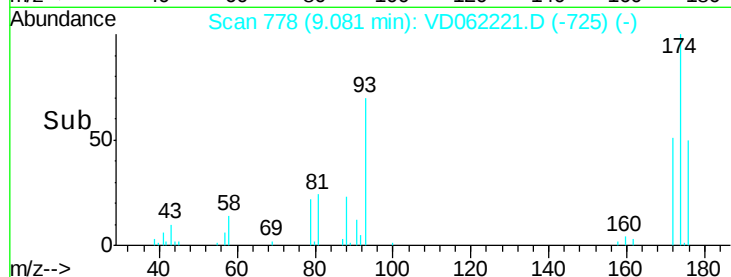
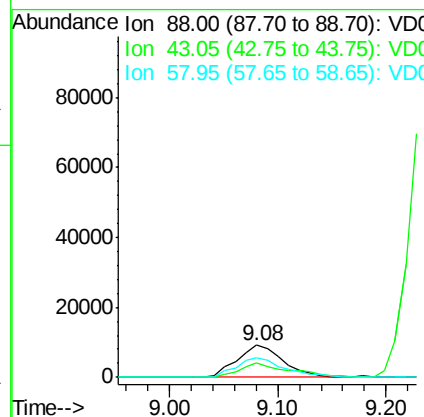
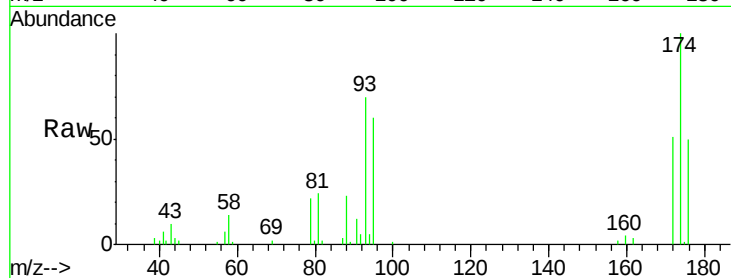
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	26814
Ion	Ratio	Lower	Upper
88	100		
43	45.3	23.4	35.0#
58	60.4	44.0	66.0

Manual Integrations
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#50

Toluene-d8

Concen: 53.707 ug/l

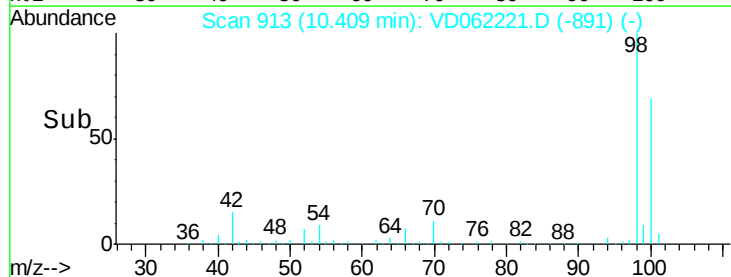
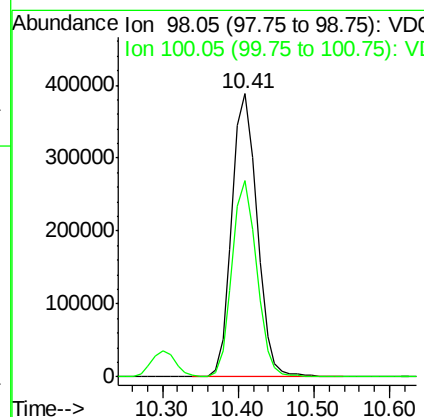
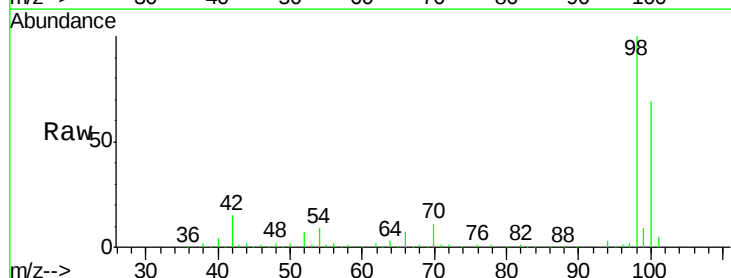
RT: 10.41 min Scan# 913

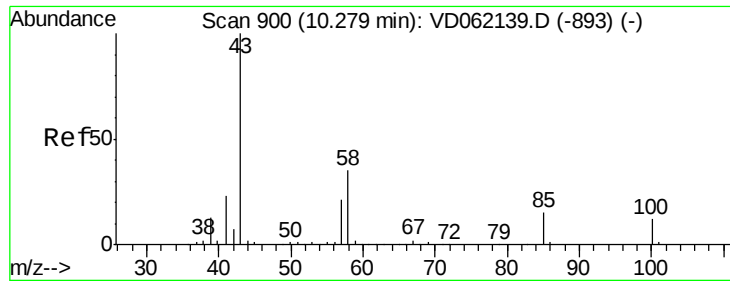
Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	98	Resp:	900918
Ion	Ratio	Lower	Upper
98	100		
100	69.3	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 256.482 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 681734

Ion Ratio Lower Upper

43 100

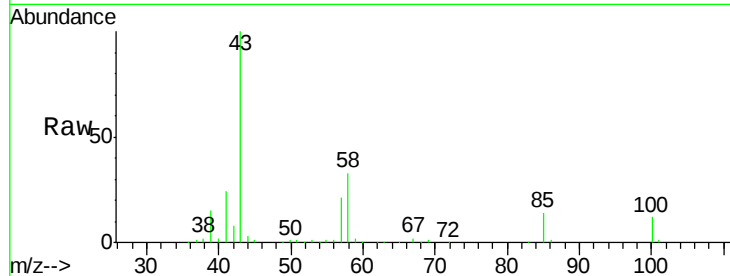
58 32.6 30.4 45.6

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

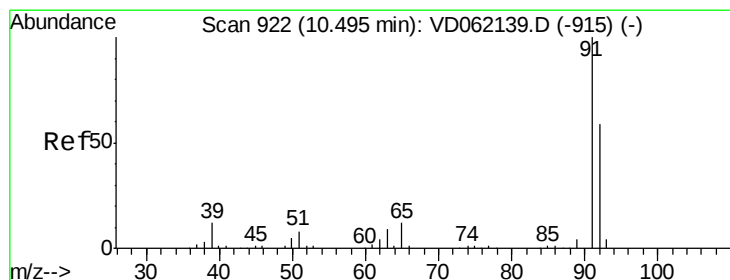
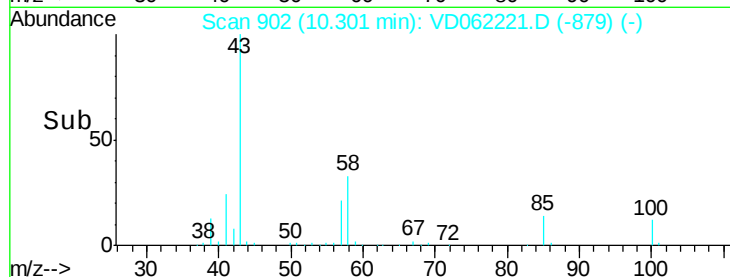
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 51.379 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD062221.D

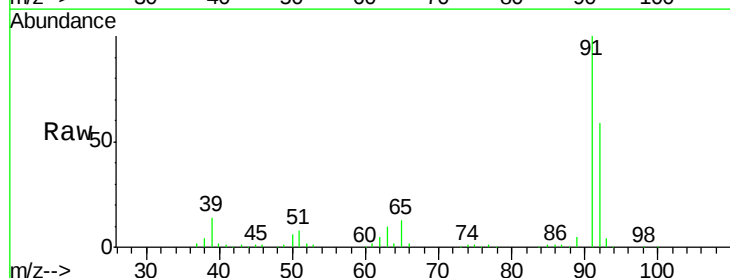
Acq: 10 May 2019 17:54

Tgt Ion: 92 Resp: 518983

Ion Ratio Lower Upper

92 100

91 168.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.51

400000

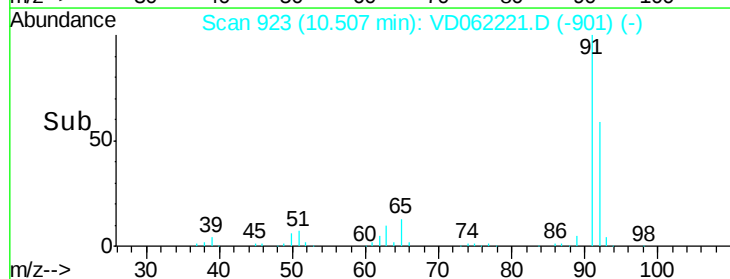
300000

200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 57.009 ug/l

RT: 10.91 min Scan# 964

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tot Ion: 75 Resp: 376344

Ion Ratio Lower Upper

75 100

77 30.2 25.8 38.8

Instrument :

MSVOA_D

ClientSampleId :

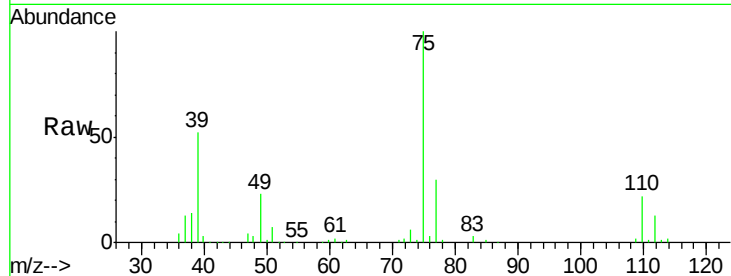
VSTDCCC050

Manual Integrations

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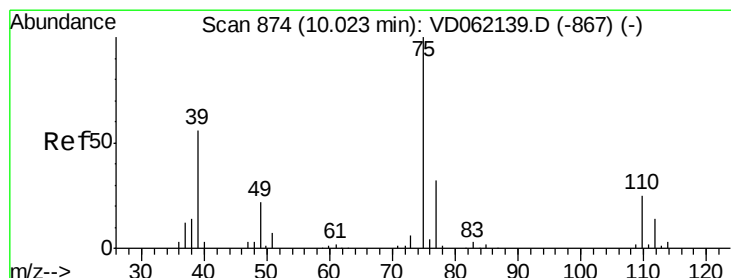
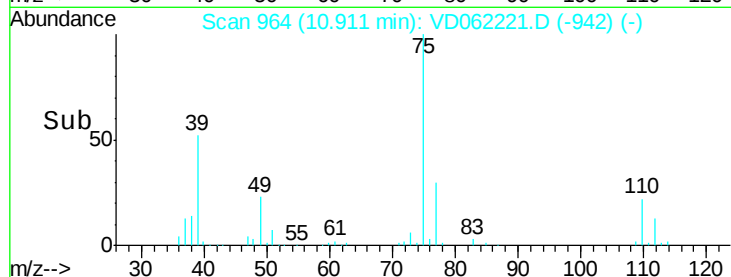
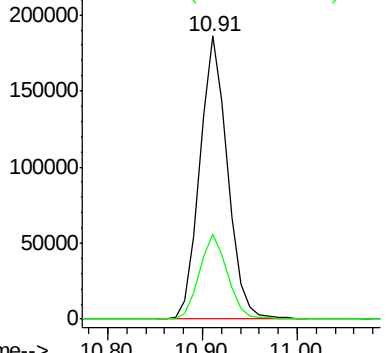
MMDadoda

5/13/2019 4:04:05 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 53.697 ug/l

RT: 10.04 min Scan# 875

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

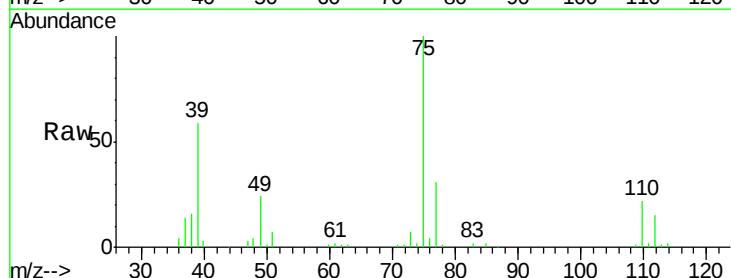
Tgt Ion: 75 Resp: 386713

Ion Ratio Lower Upper

75 100

77 31.1 25.5 38.3

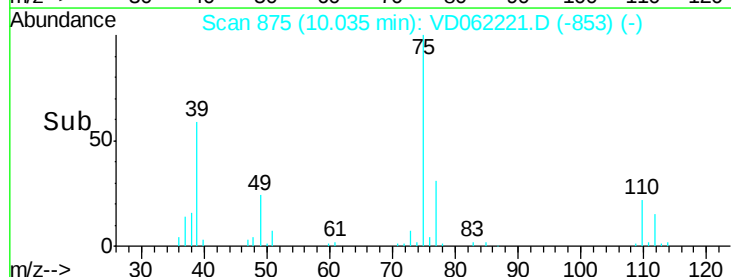
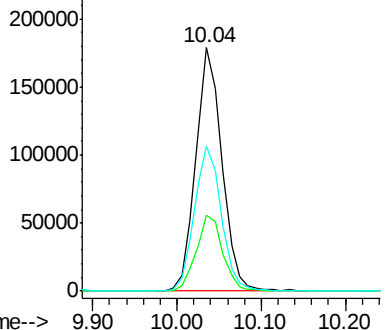
39 59.4 39.4 59.2#

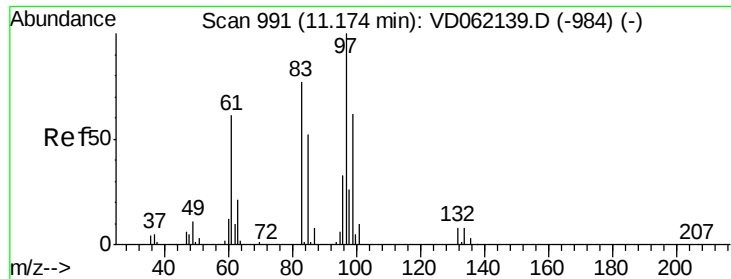


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





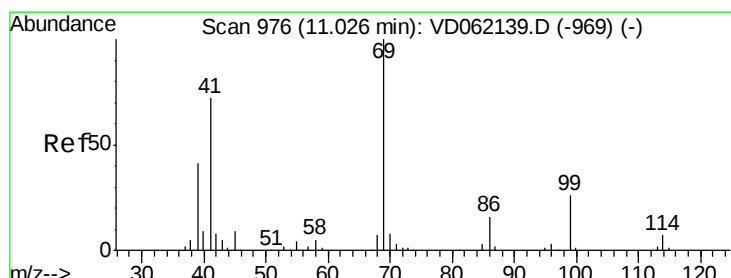
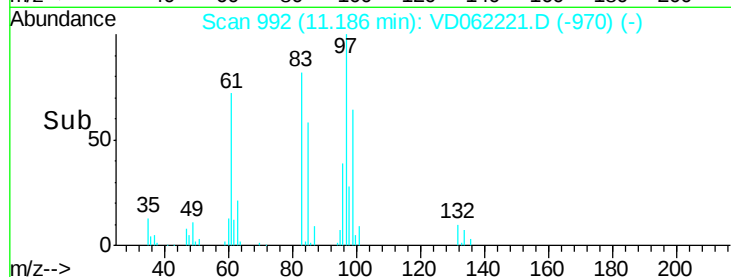
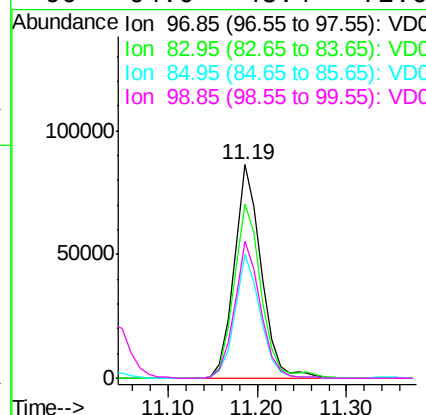
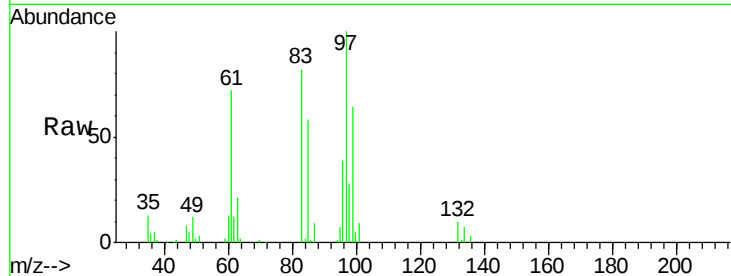
#55
 1,1,2-Trichloroethane
 Concen: 51.409 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
97	100	183733		
83	81.8	65.7	98.5	
85	58.0	45.6	68.4	
99	64.0	48.4	72.6	

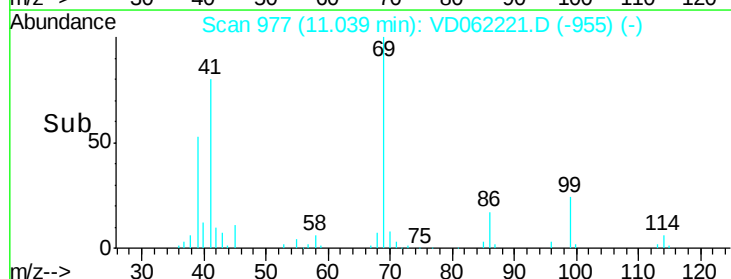
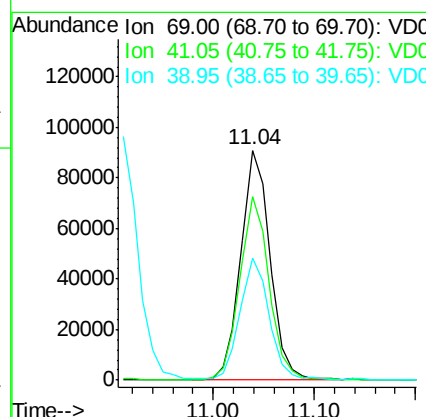
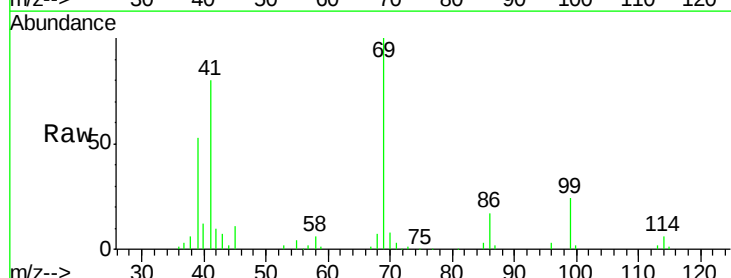
Manual Integrations
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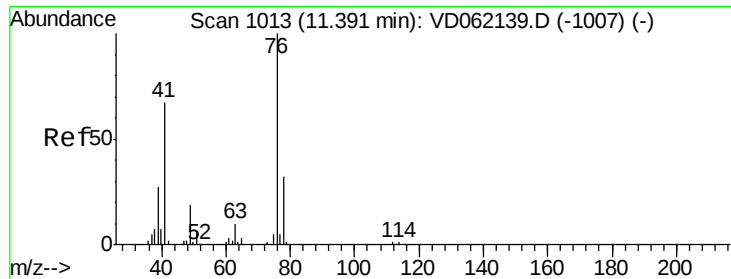
MMDadoda
 5/13/2019 4:04:05 AM



#56
 Ethyl methacrylate
 Concen: 49.600 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	184210		
41	80.0	56.3	84.5	
39	53.2	29.4	44.2	





#57

1,3-Dichloropropane

Concen: 54.310 ug/l

RT: 11.40 min Scan# 1014

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 293242

Ion Ratio Lower Upper

76 100

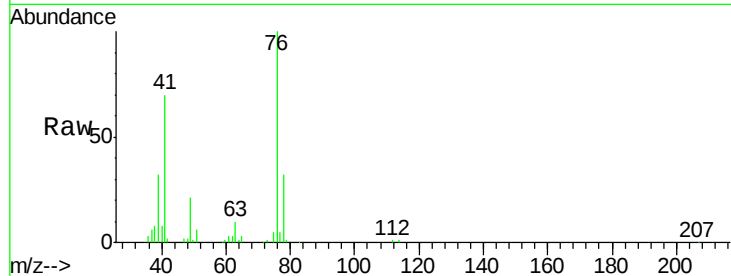
78 32.0 26.2 39.2

Manual Integrations

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MMDadoda

5/13/2019 4:04:05 AM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.40

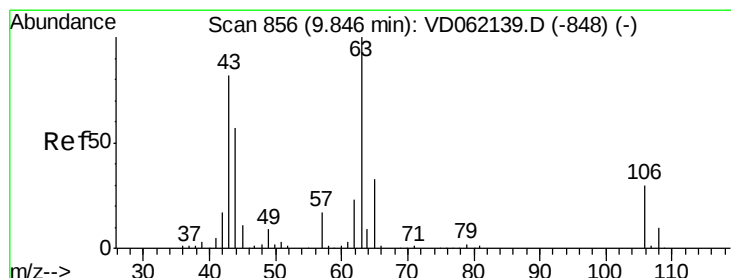
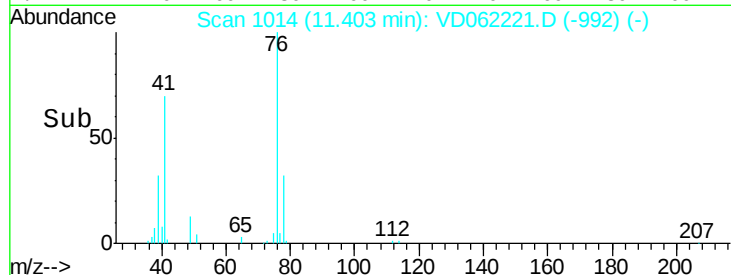
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 264.556 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD062221.D

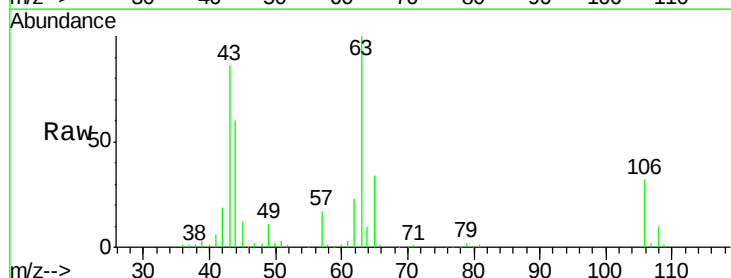
Acq: 10 May 2019 17:54

Tgt Ion: 63 Resp: 536694

Ion Ratio Lower Upper

63 100

106 31.7 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.86

250000

200000

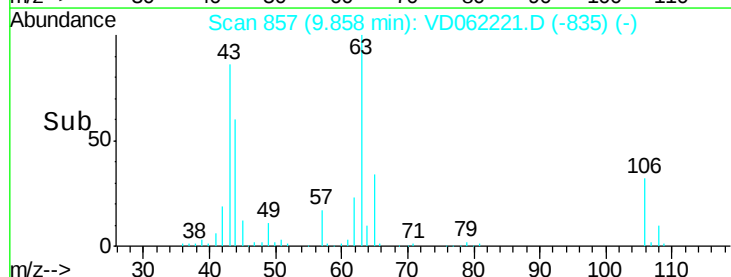
150000

100000

50000

0

Time-->





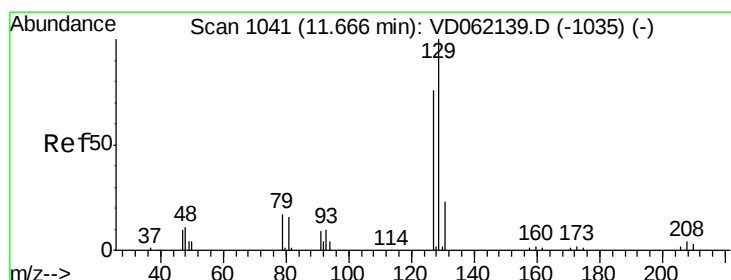
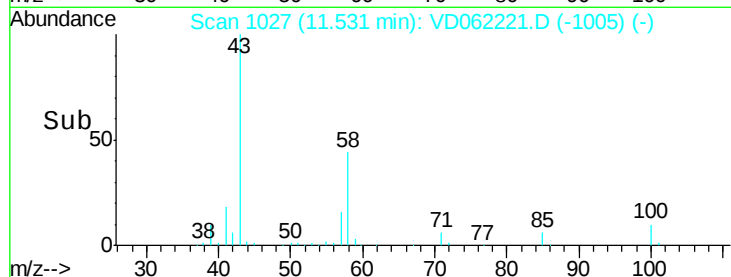
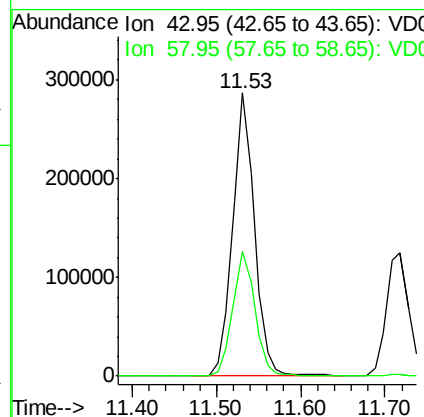
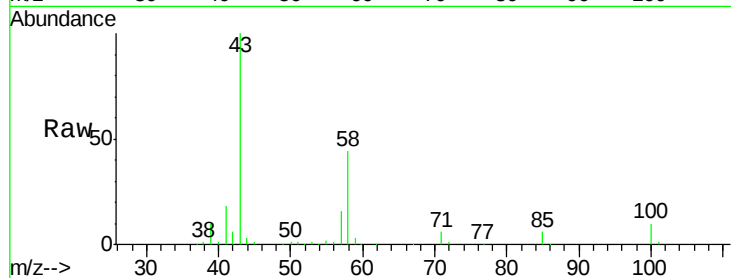
#59
2-Hexanone
Concen: 264.495 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 518163
Ion Ratio Lower Upper
43 100
58 44.1 25.4 76.4

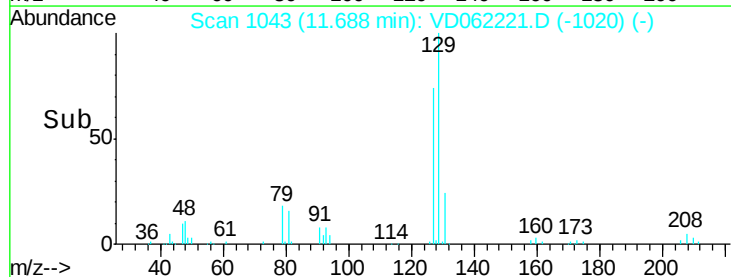
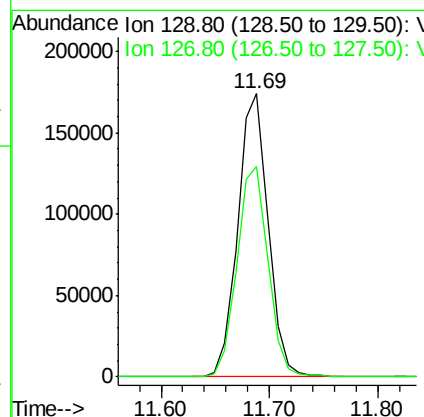
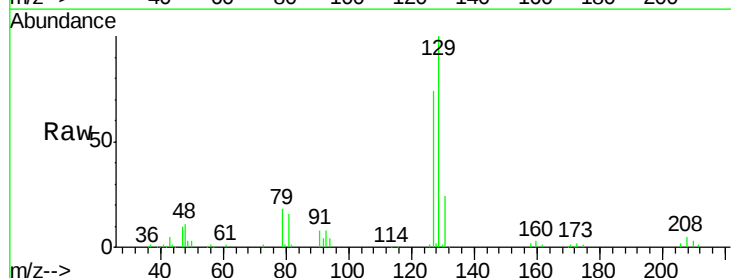
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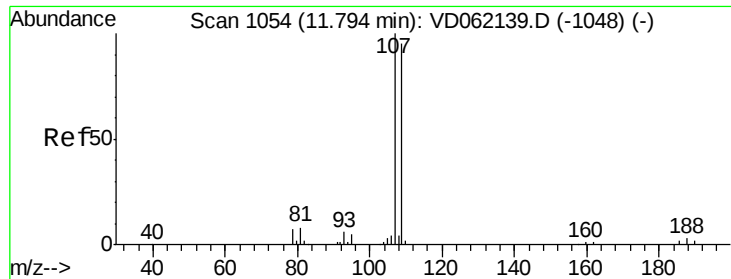
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#60
Dibromochloromethane
Concen: 54.801 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion: 129 Resp: 338482
Ion Ratio Lower Upper
129 100
127 74.3 38.0 113.9





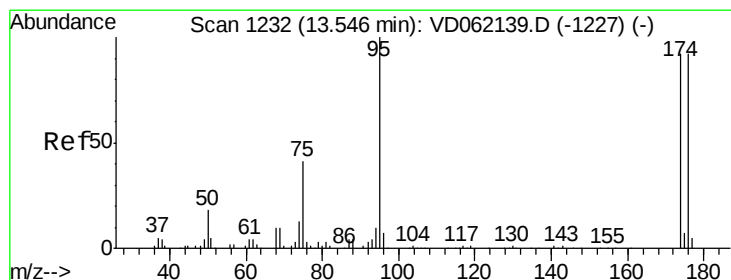
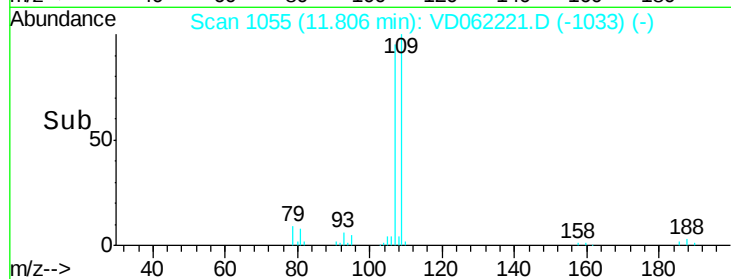
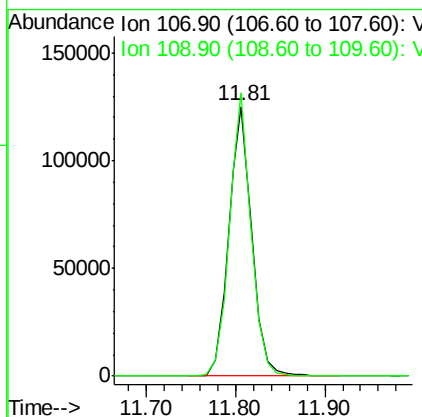
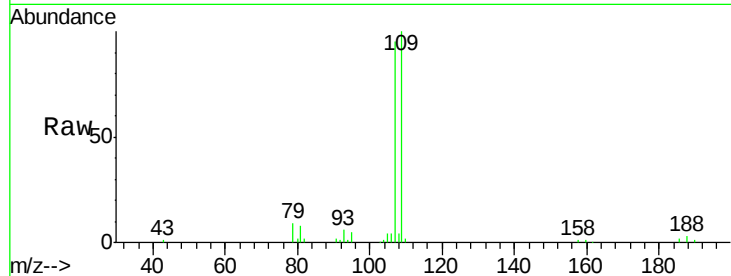
#61
 1,2-Dibromoethane
 Concen: 52.044 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	105.1	78.3	117.5

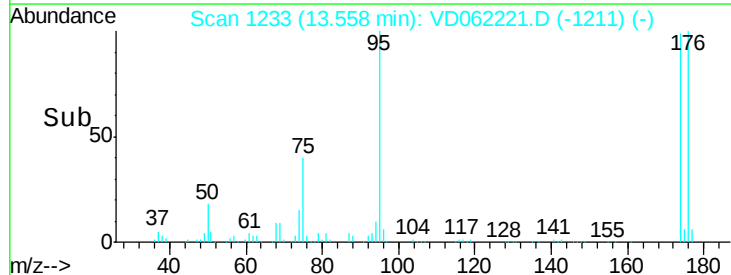
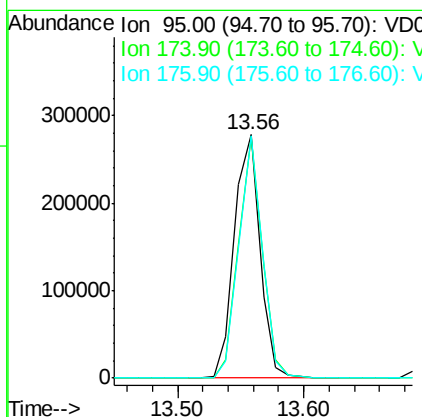
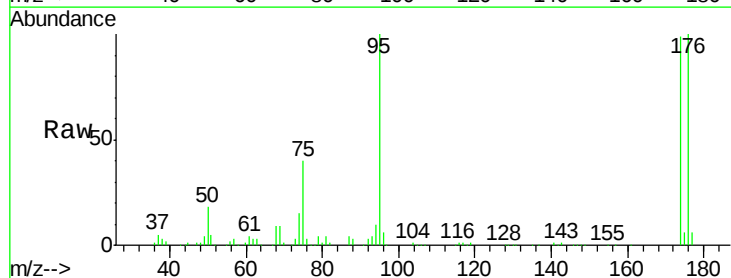
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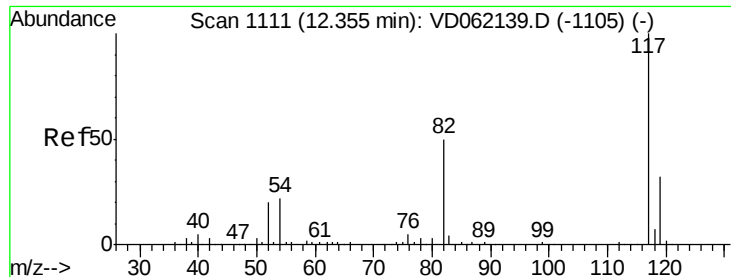
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#62
 4-Bromofluorobenzene
 Concen: 57.723 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
95	100		
174	99.0	0.0	181.8
176	99.7	0.0	174.4





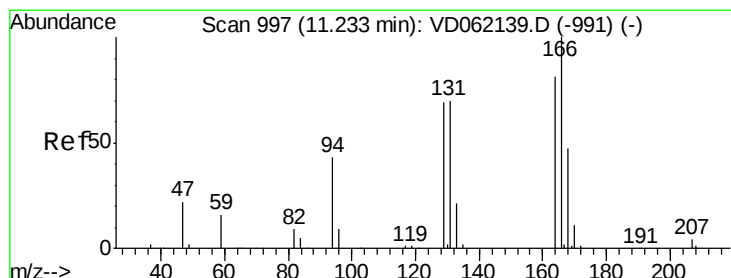
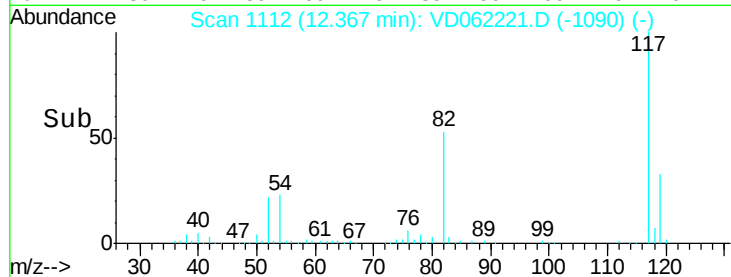
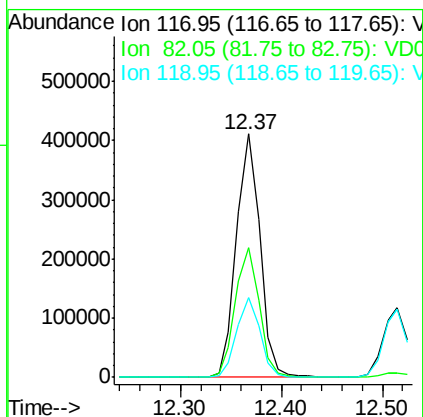
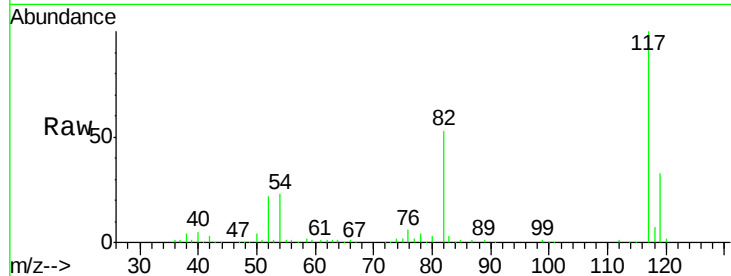
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	36.2	54.2
119	33.0	26.2	39.4

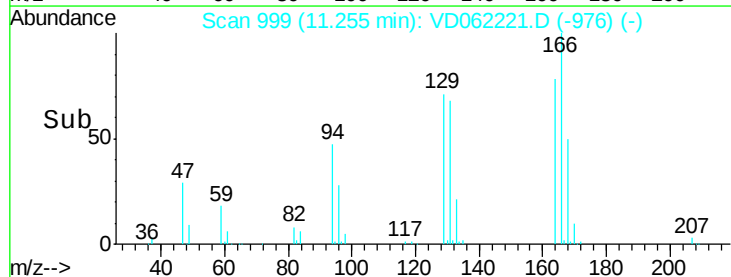
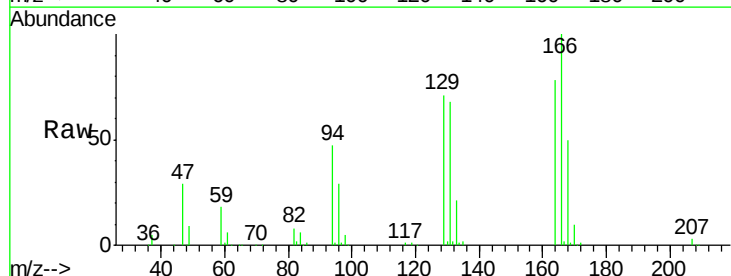
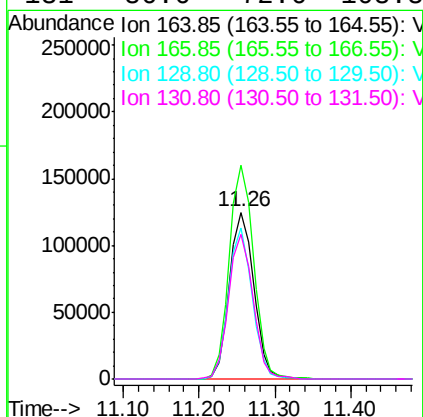
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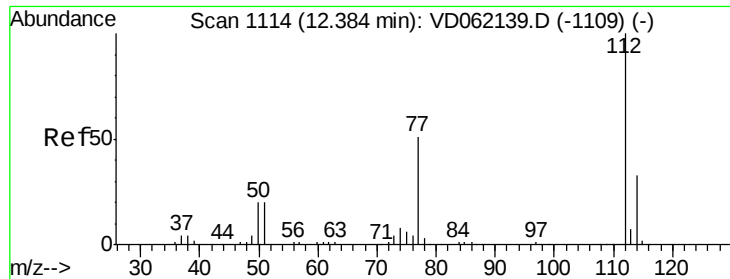
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#64
Tetrachloroethene
Concen: 53.164 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.02 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.5	152.3
129	90.8	74.6	112.0
131	86.6	72.6	108.8





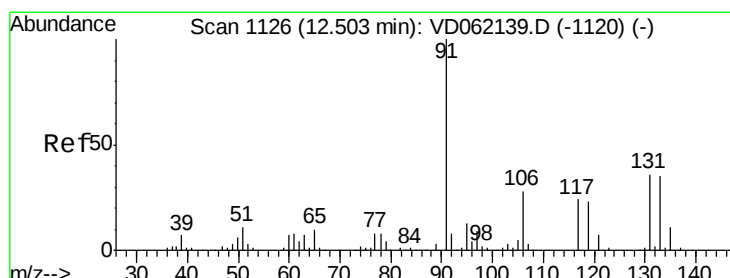
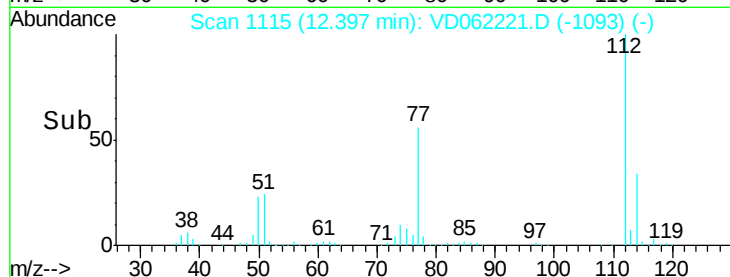
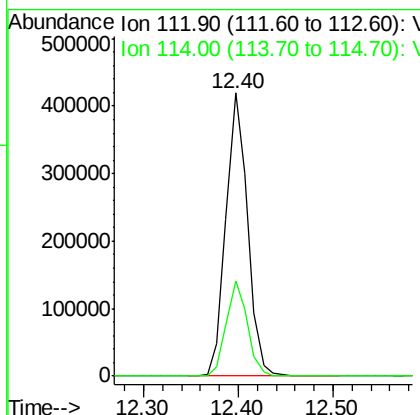
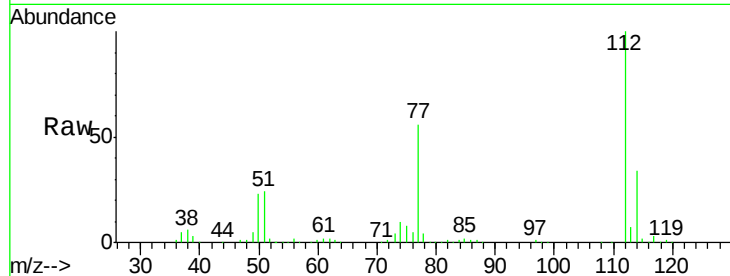
#65
Chlorobenzene
Concen: 53.149 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 664903
Ion Ratio Lower Upper
112 100
114 33.8 25.8 38.8

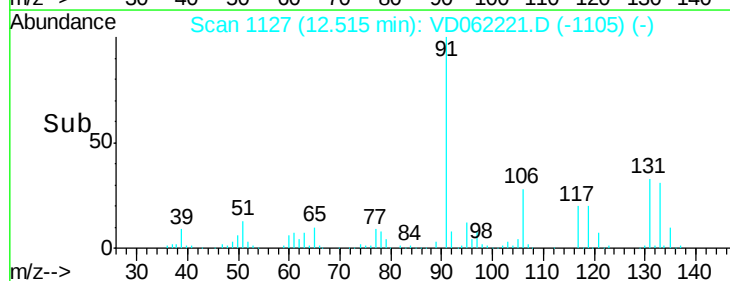
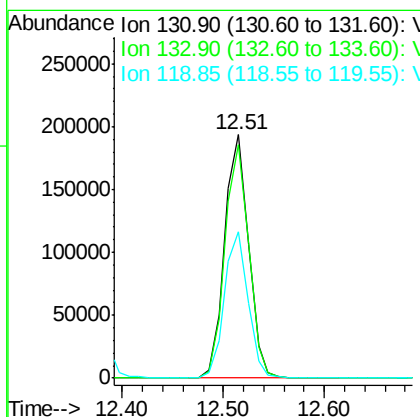
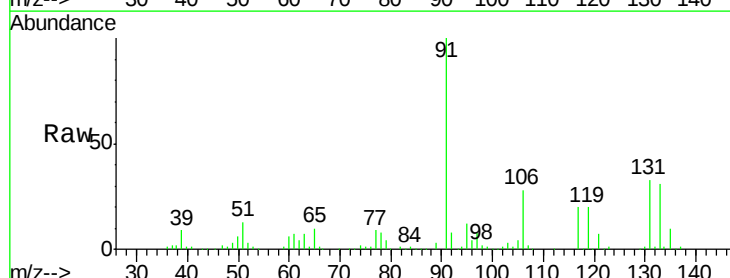
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#66
1,1,1,2-Tetrachloroethane
Concen: 58.665 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion:131 Resp: 319405
Ion Ratio Lower Upper
131 100
133 95.9 48.6 145.8
119 59.9 34.7 104.1





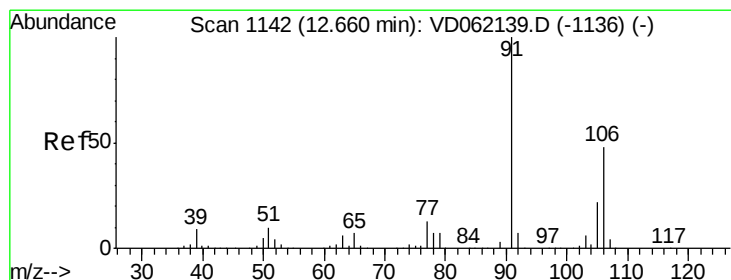
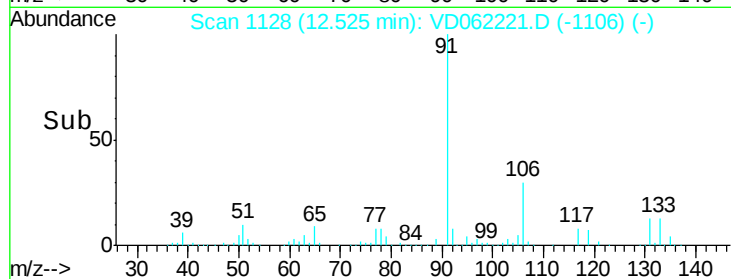
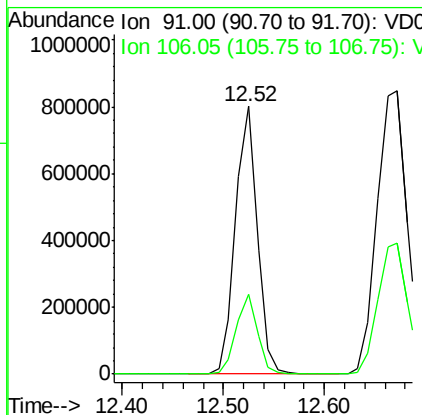
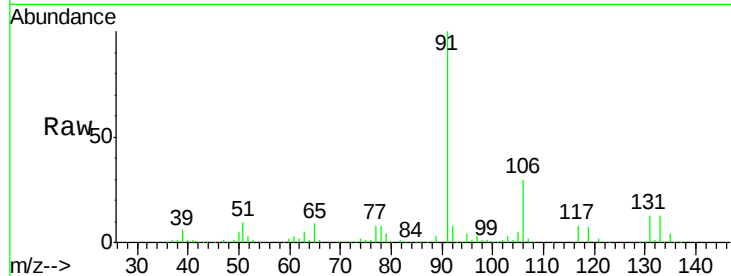
#67
Ethyl Benzene
Concen: 57.484 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1203917
Ion Ratio Lower Upper
91 100
106 29.6 24.7 37.1

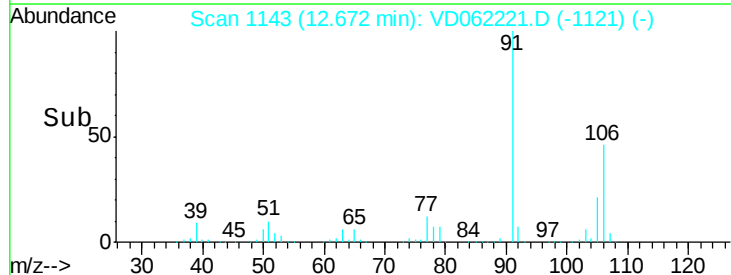
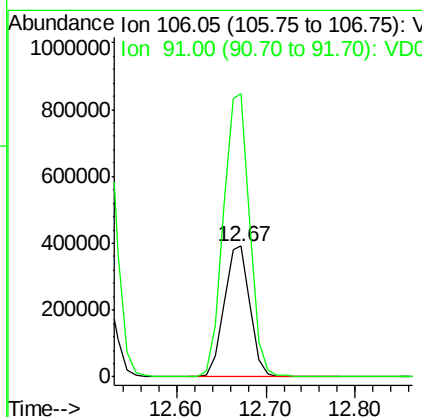
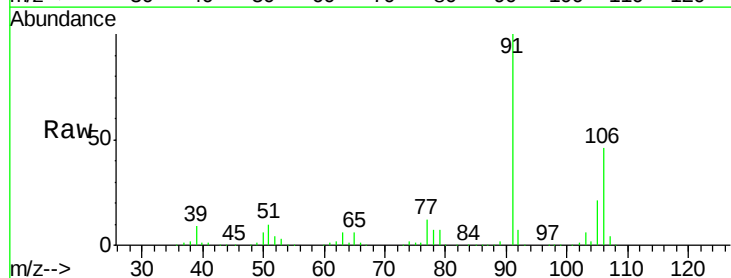
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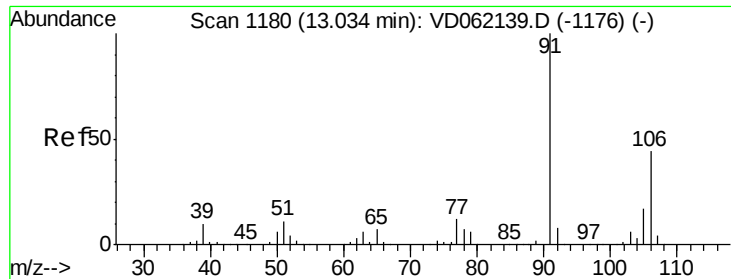
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#68
m/p-Xylenes
Concen: 104.425 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion: 106 Resp: 795696
Ion Ratio Lower Upper
106 100
91 216.4 164.0 246.0





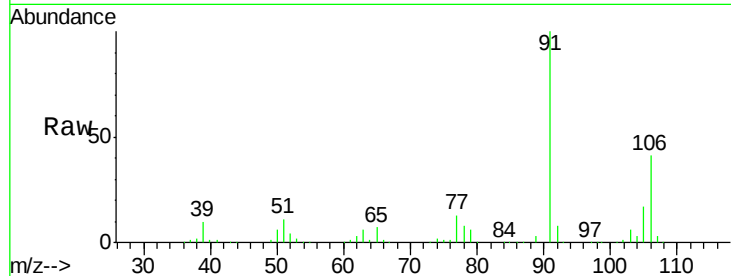
#69
o-Xylene
Concen: 50.559 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

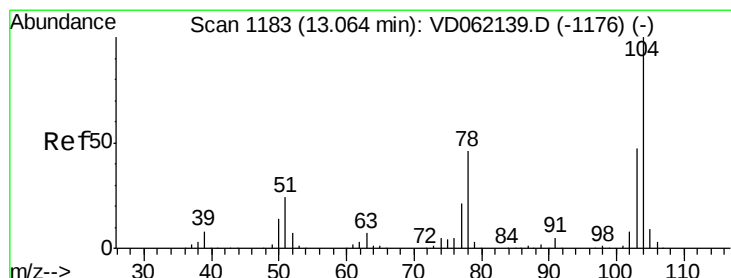
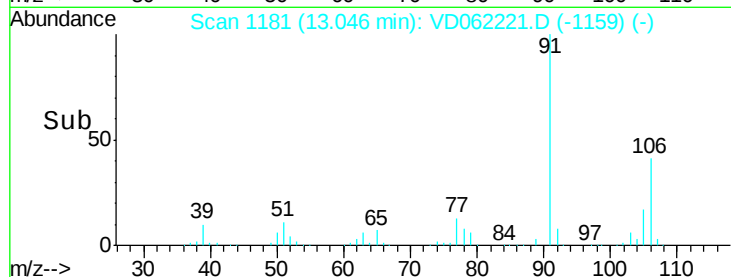
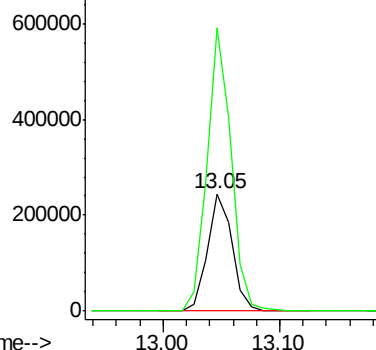
Tot Ion:106 Resp: 358165
Ion Ratio Lower Upper
106 100
91 241.5 106.7 319.9

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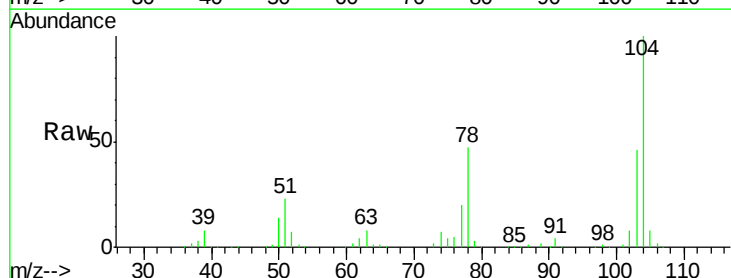


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

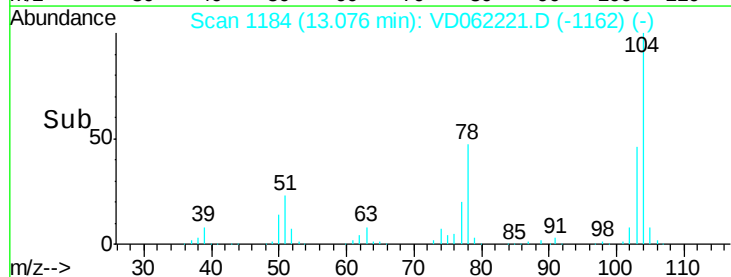
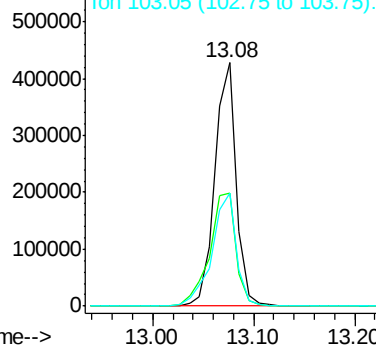


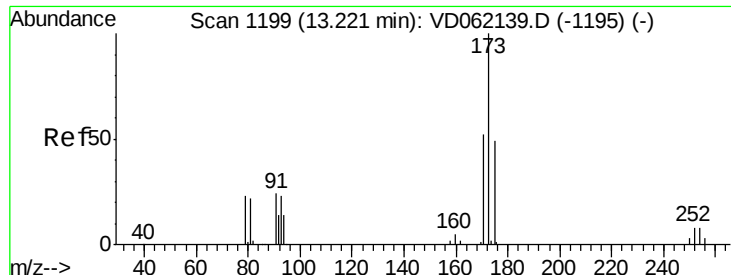
#70
Styrene
Concen: 52.605 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion:104 Resp: 631280
Ion Ratio Lower Upper
104 100
78 46.6 35.4 53.2
103 46.4 37.5 56.3



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





#71

Bromoform

Concen: 59.722 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 226226

Ion Ratio Lower Upper

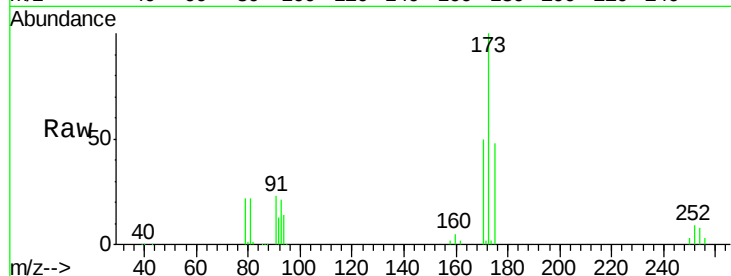
173 100

175 48.0 24.4 73.4

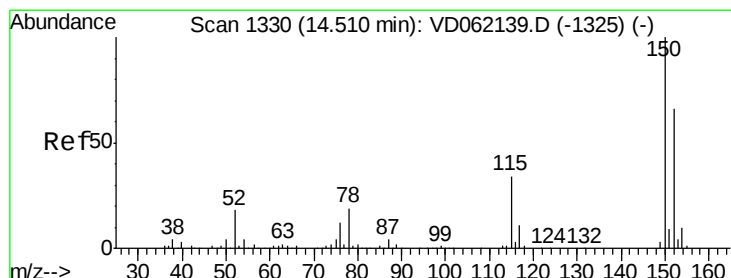
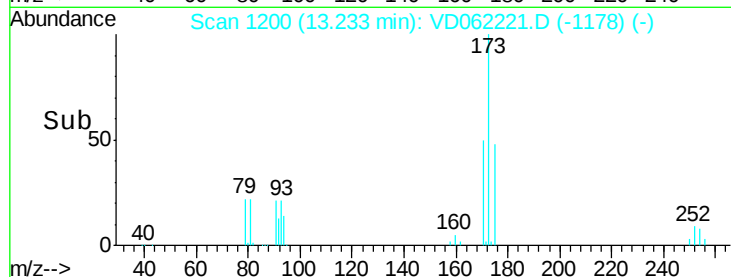
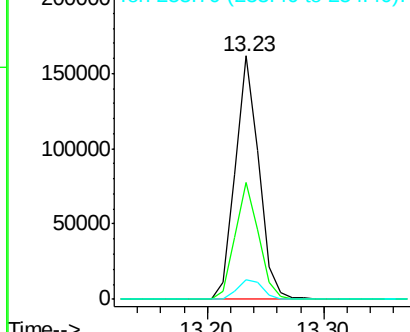
254 8.3 5.4 8.2#

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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: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

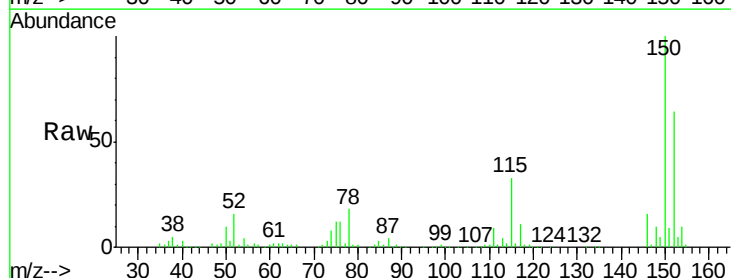
Tgt Ion:152 Resp: 385214

Ion Ratio Lower Upper

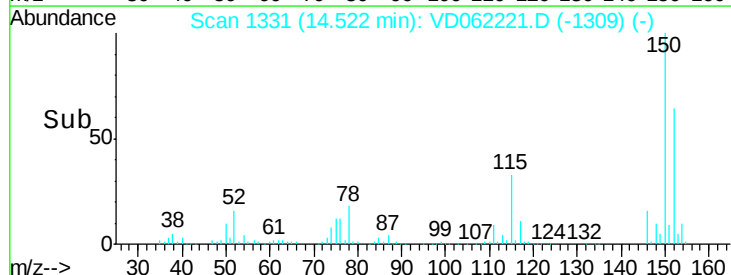
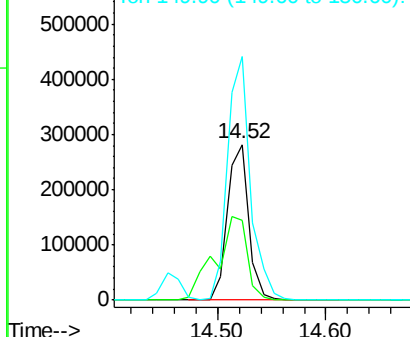
152 100

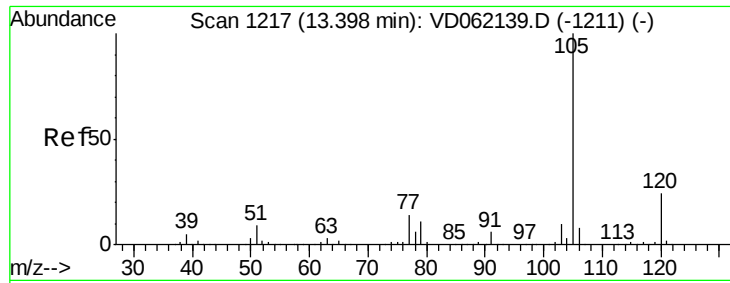
115 51.3 30.9 92.7

150 156.3 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: 47.356 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1093499

Ion Ratio Lower Upper

105 100

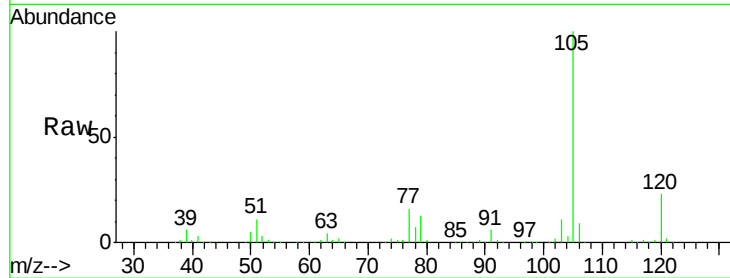
120 22.9 12.0 36.1

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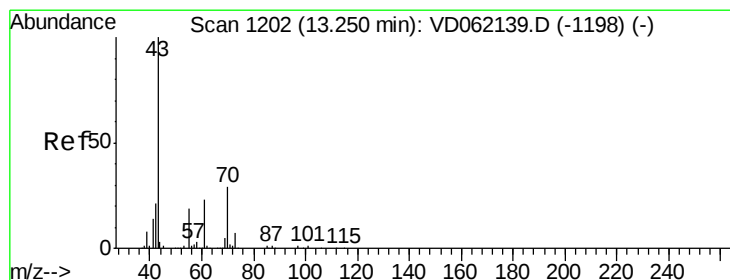
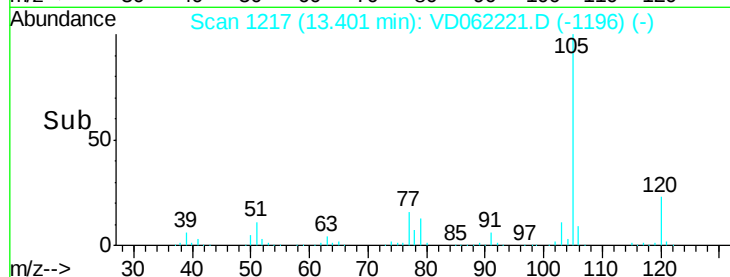
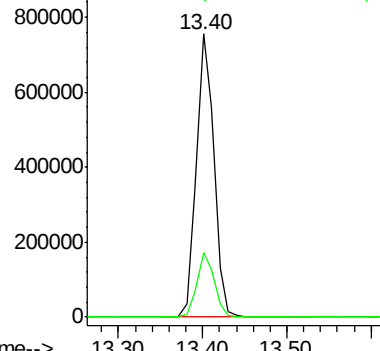
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 48.615 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion: 43 Resp: 294312

Ion Ratio Lower Upper

43 100

70 29.8 24.2 36.4

55 18.3 16.0 24.0

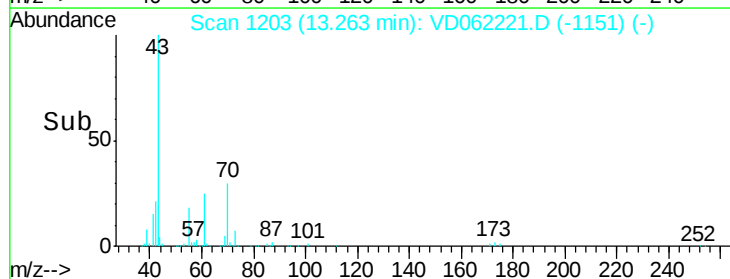
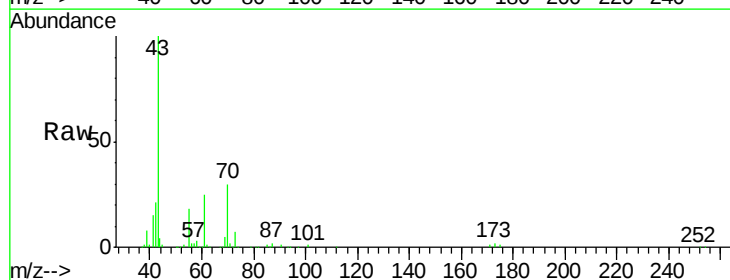
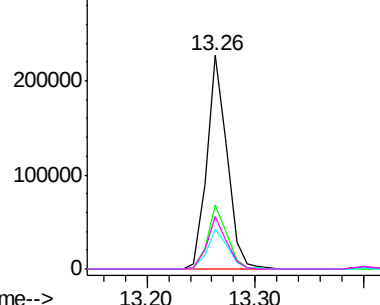
61 24.6 21.6 32.4

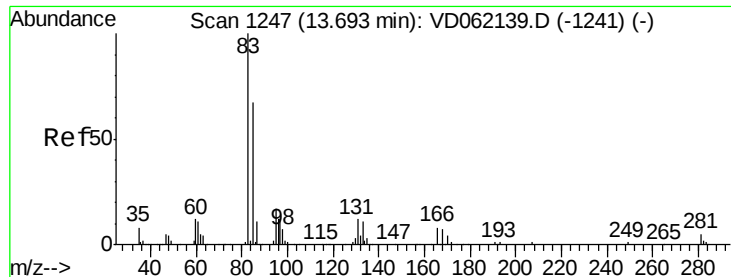
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 49.237 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

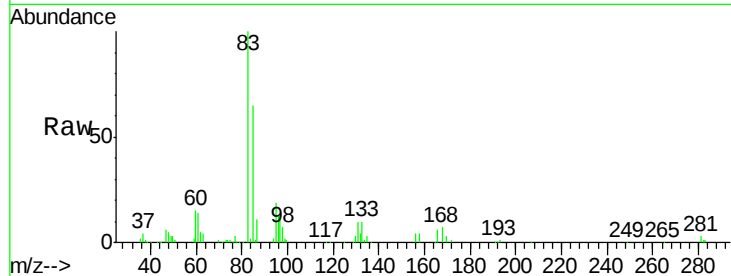
ClientSampleId :

VSTDCCC050

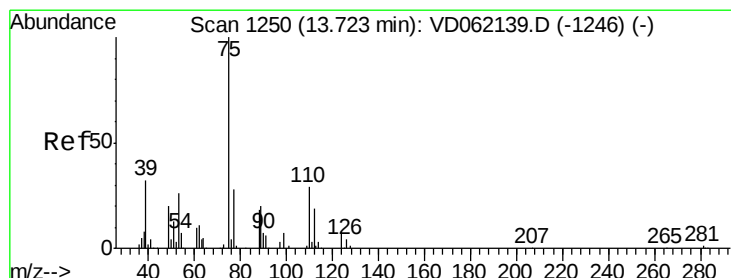
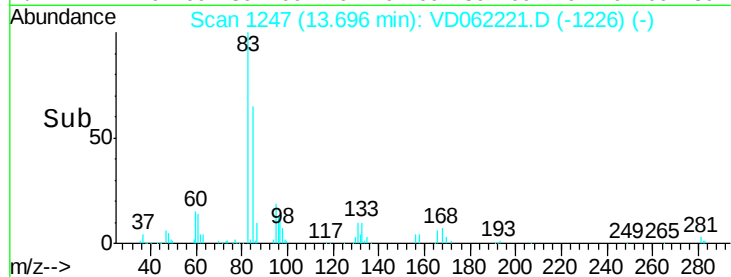
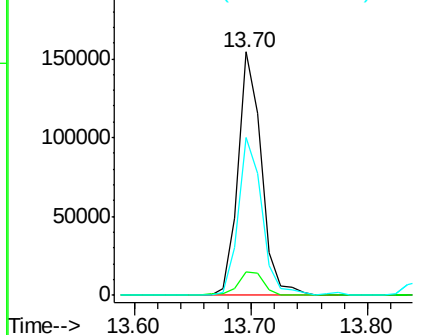
Tot Ion:	83	Resp:	215236
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	14.9
85	64.7	32.6	97.7

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Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 50.285 ug/l

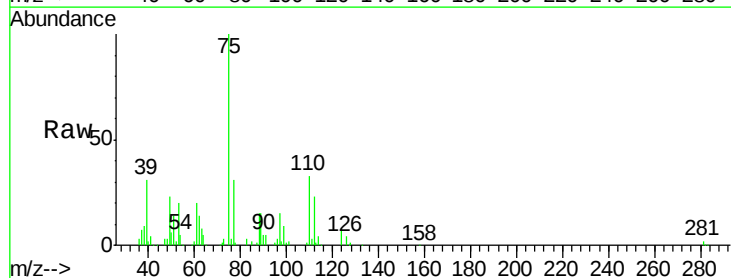
RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

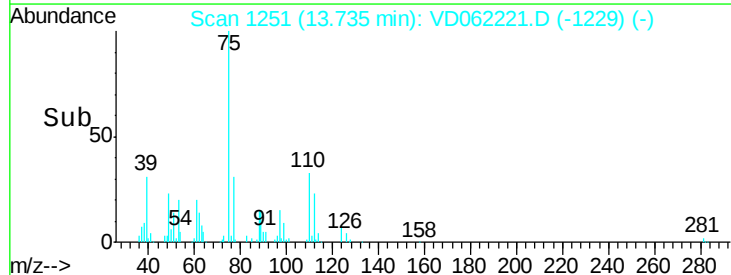
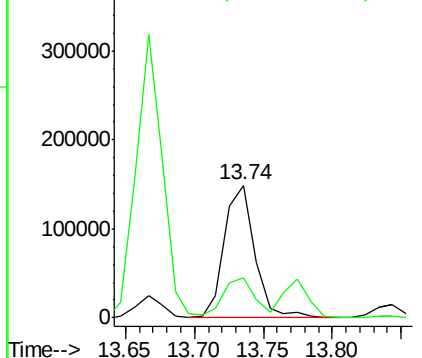
Lab File: VD062221.D

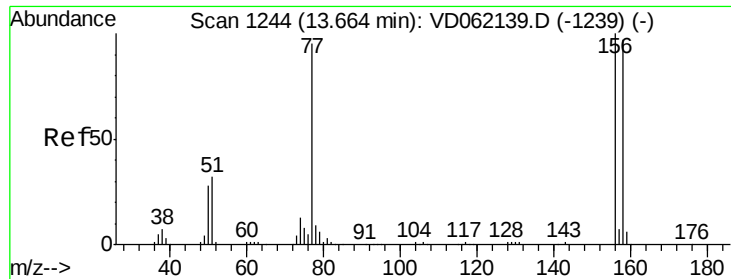
Acq: 10 May 2019 17:54

Tgt Ion:	75	Resp:	230203
Ion Ratio	Lower	Upper	
75	100		
77	30.8	16.4	49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 53.733 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

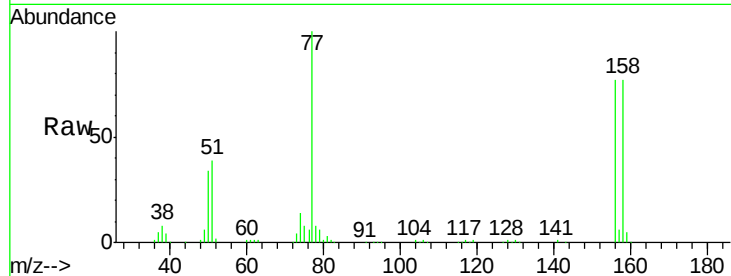
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	130.3	53.1	159.4	
158	100.1	49.4	148.0	

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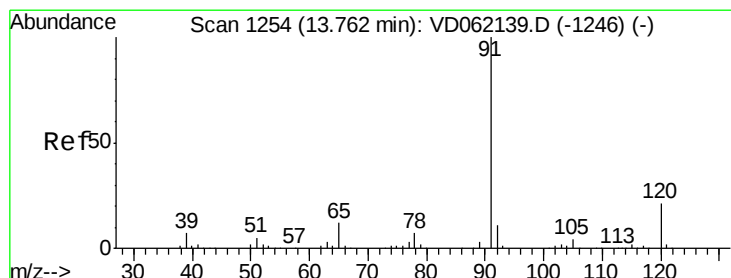
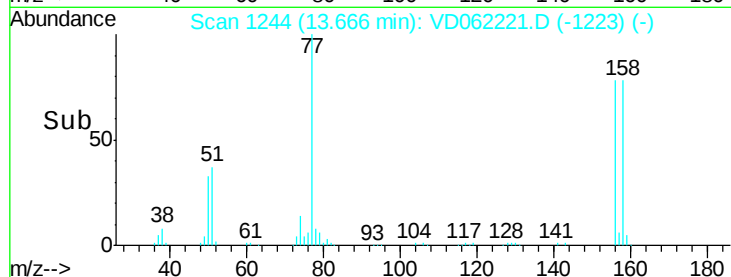
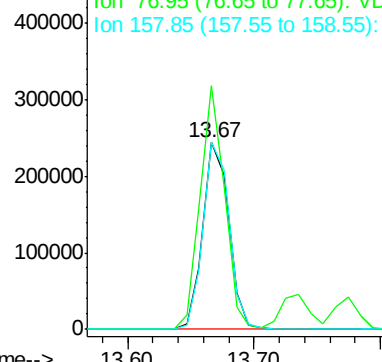
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 49.116 ug/l

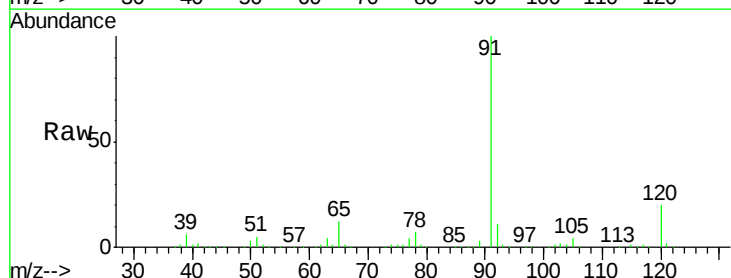
RT: 13.77 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062221.D

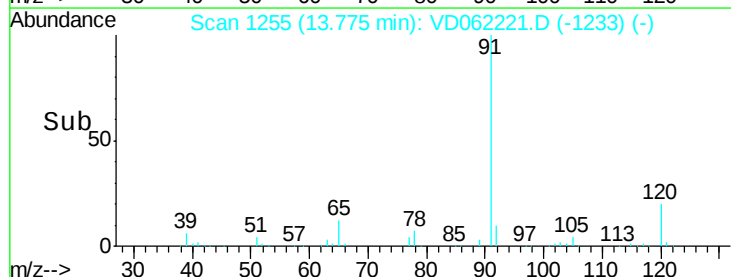
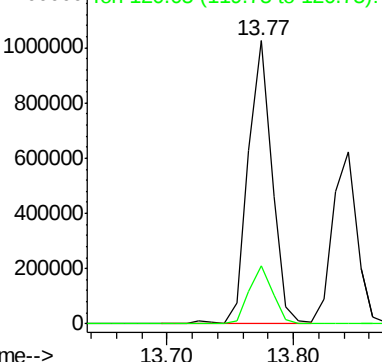
Acq: 10 May 2019 17:54

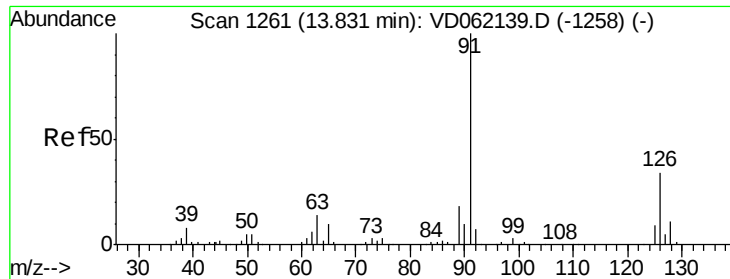
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.4	11.1	33.1	



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 53.136 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 838242

Ion Ratio Lower Upper

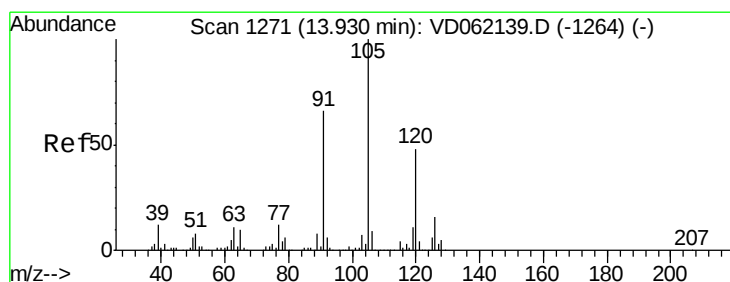
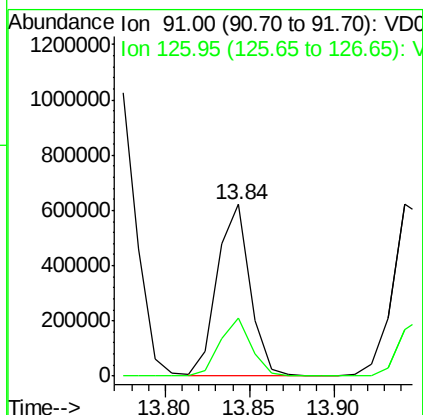
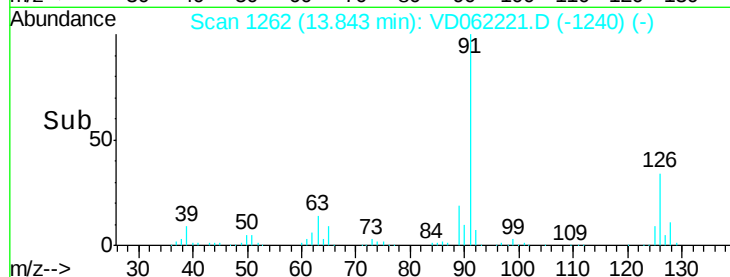
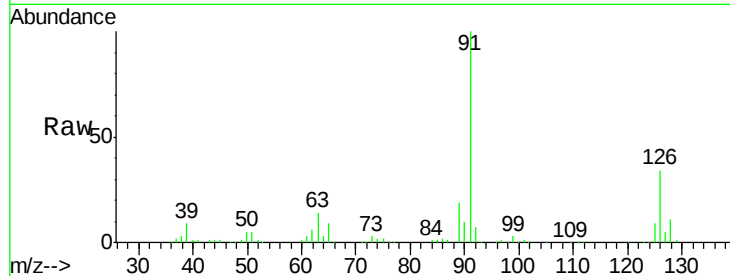
91 100

126 34.0 18.6 55.8

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#80

1,3,5-Trimethylbenzene

Concen: 51.923 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062221.D

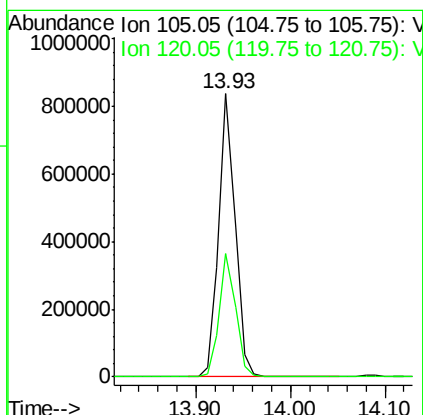
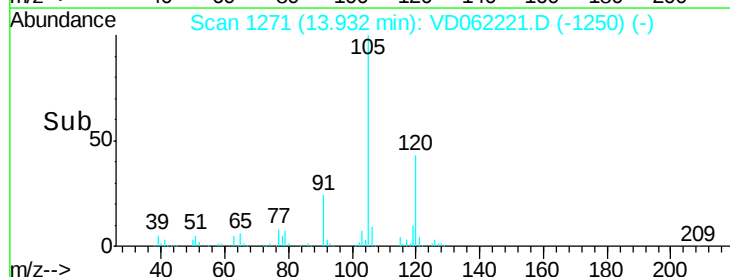
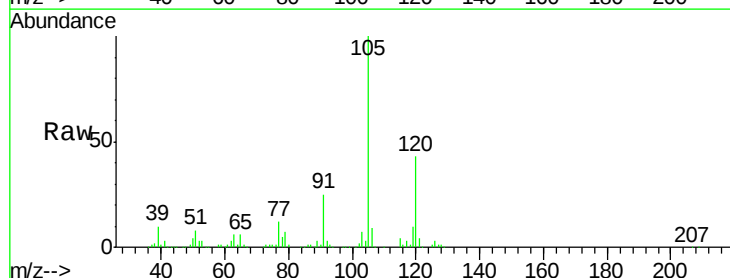
Acq: 10 May 2019 17:54

Tgt Ion: 105 Resp: 1009618

Ion Ratio Lower Upper

105 100

120 43.5 24.0 72.0





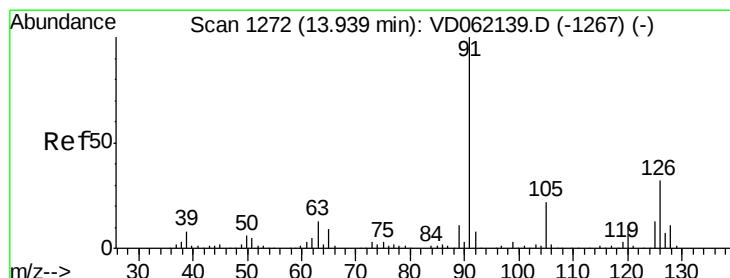
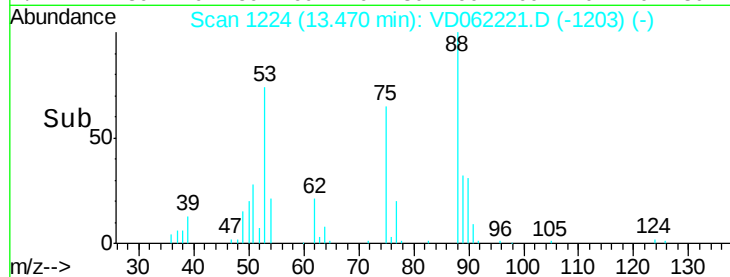
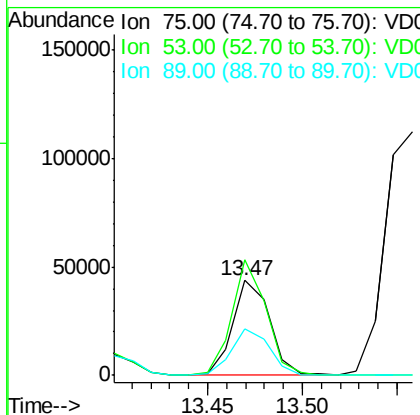
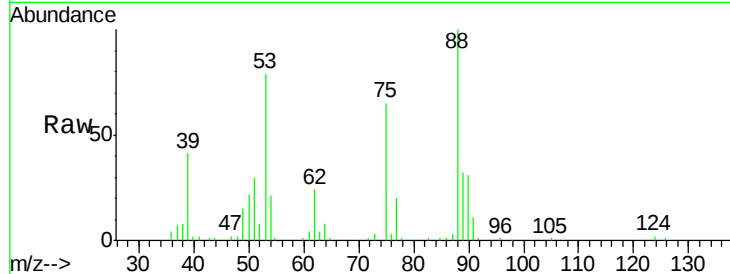
#81
trans-1,4-Dichloro-2-butene
Concen: 45.841 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	121.4	65.8	98.8#
89	49.1	35.0	52.6

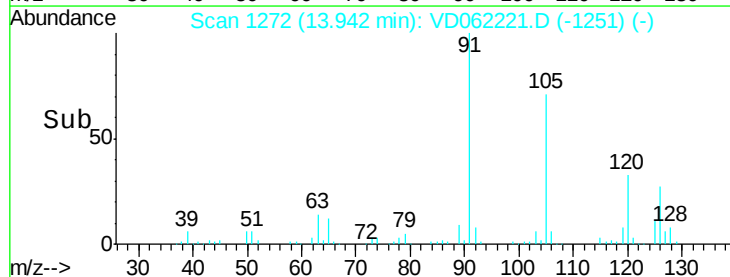
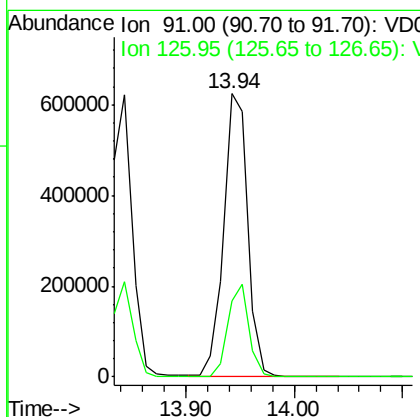
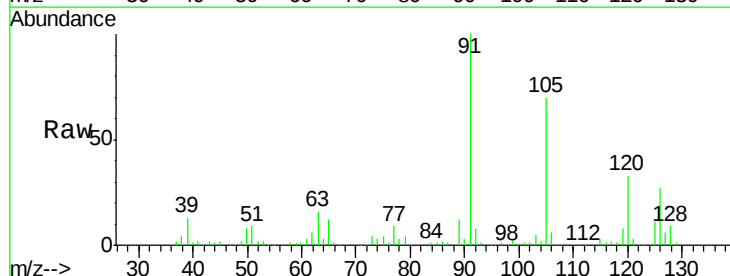
Manual Integrations
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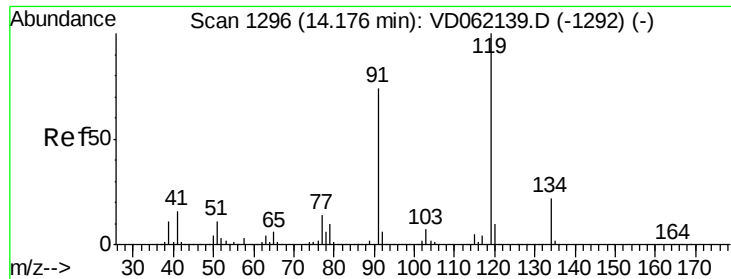
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#82
4-Chlorotoluene
Concen: 51.793 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	27.1	19.1	57.5





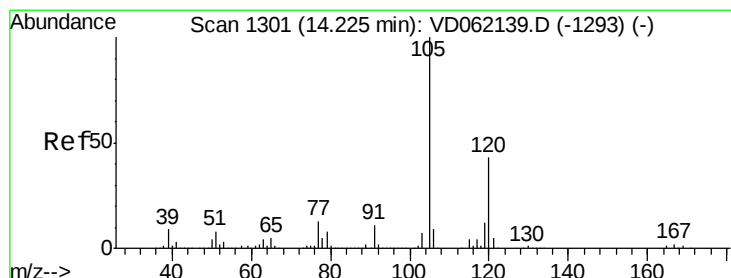
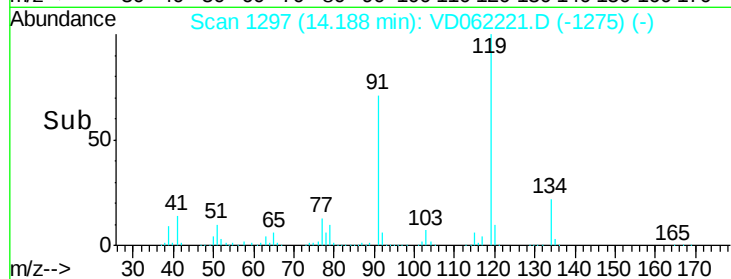
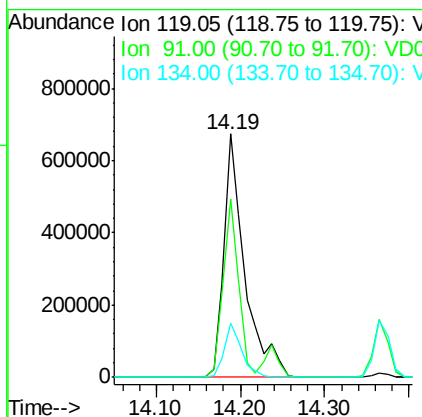
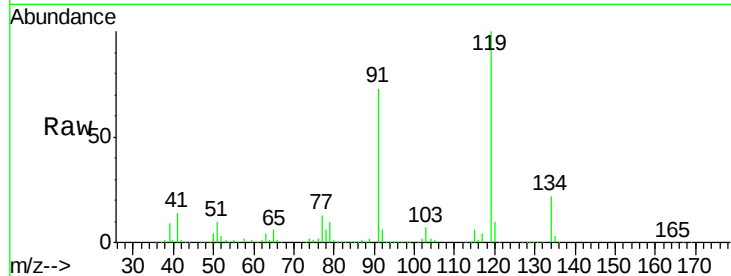
#83
tert-Butylbenzene
Concen: 53.437 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1167885
Ion Ratio Lower Upper
119 100
91 73.1 34.2 102.6
134 22.1 12.0 36.0

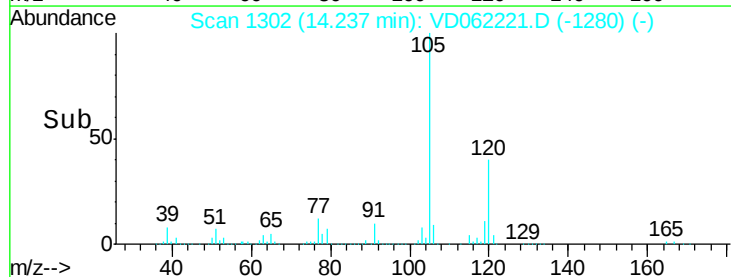
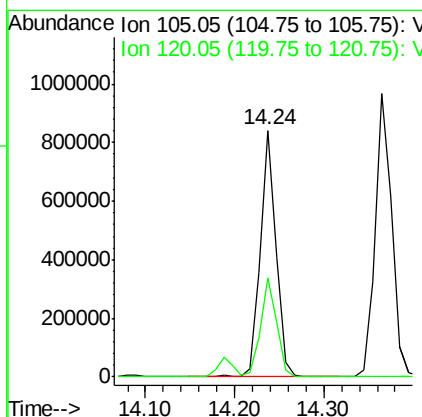
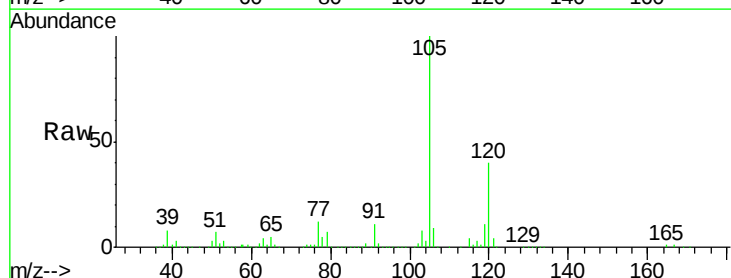
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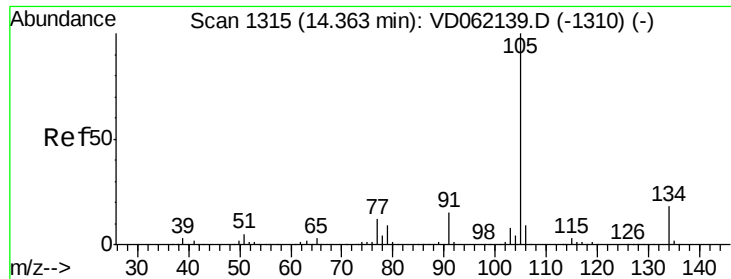
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#84
1,2,4-Trimethylbenzene
Concen: 51.681 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion:105 Resp: 1008417
Ion Ratio Lower Upper
105 100
120 40.1 23.1 69.2





#85

sec-Butylbenzene

Concen: 50.648 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion:105 Resp: 1213661

Ion Ratio Lower Upper

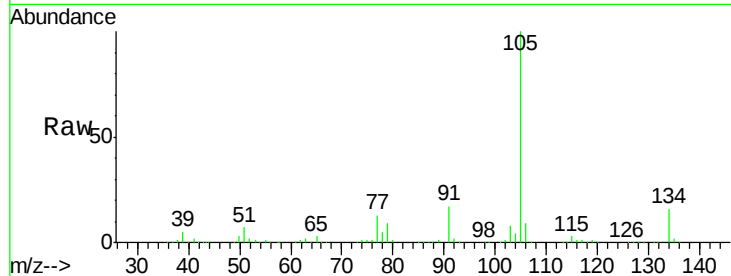
105 100

134 16.2 8.9 26.7

Manual Integrations
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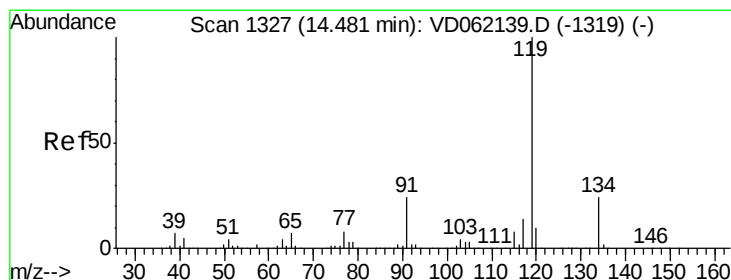
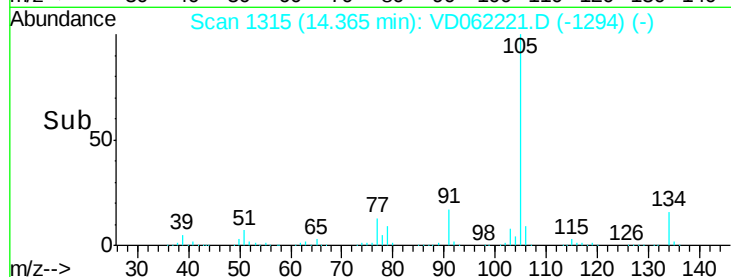
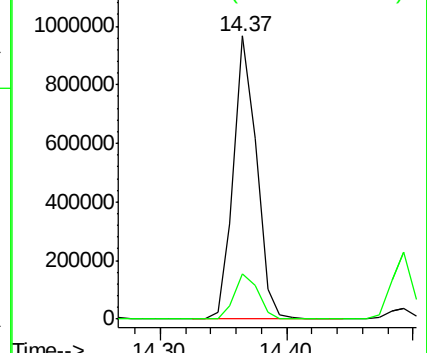
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 54.902 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

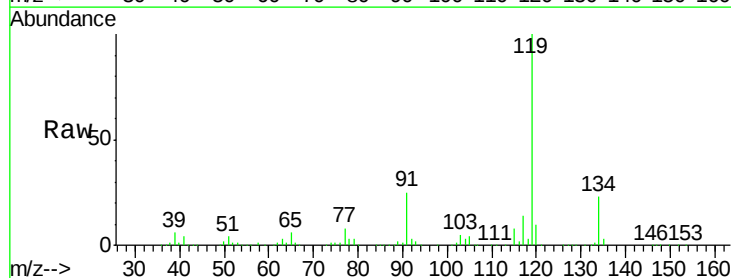
Tgt Ion:119 Resp: 1175400

Ion Ratio Lower Upper

119 100

134 23.2 12.8 38.3

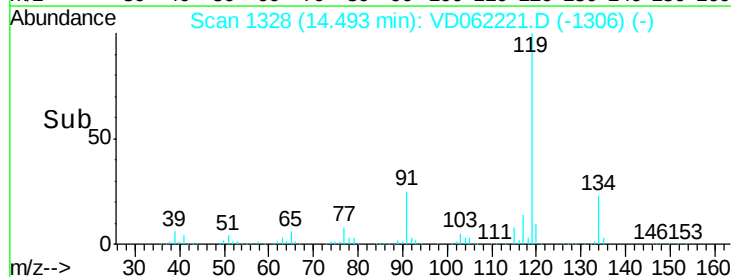
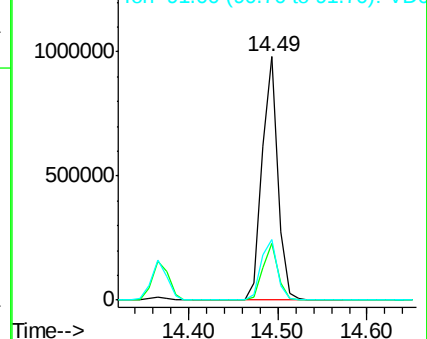
91 24.9 10.7 32.1



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 51.126 ug/l

RT: 14.45 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VD062221.D

Acq: 10 May 2019 17:54

Instrument :

MSVOA_D

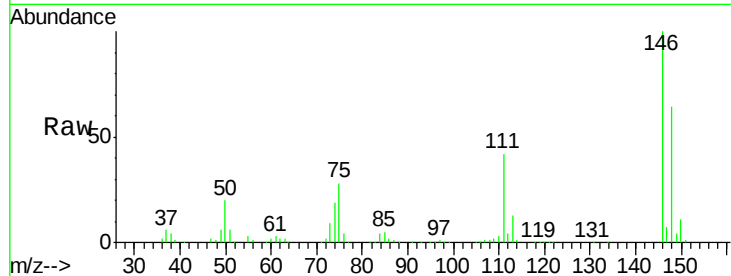
ClientSampleId :

VSTDCCC050

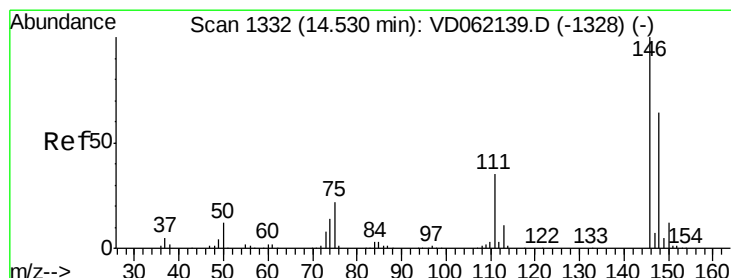
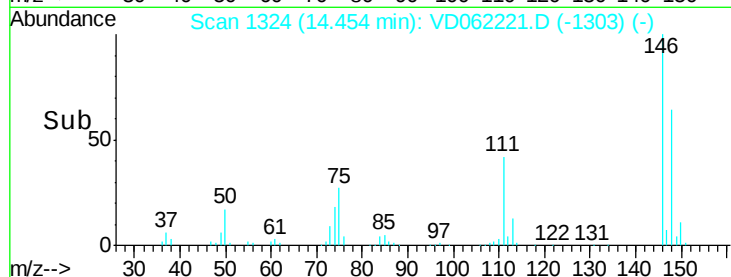
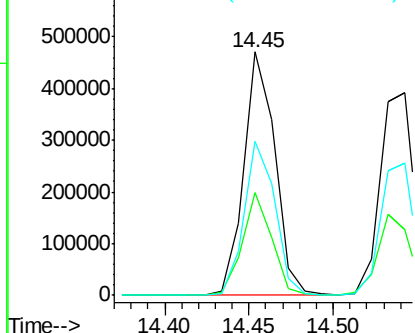
Tot Ion:	146	Resp:	603701
Ion Ratio	Lower	Upper	
146	100		
111	42.5	20.0	60.0
148	63.5	31.8	95.4

Manual Integrations
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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 48.280 ug/l

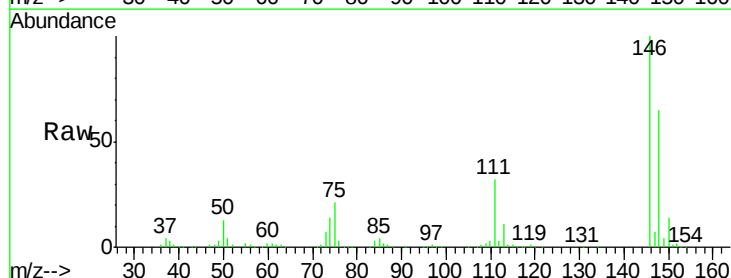
RT: 14.54 min Scan# 1333

Delta R.T. 0.01 min

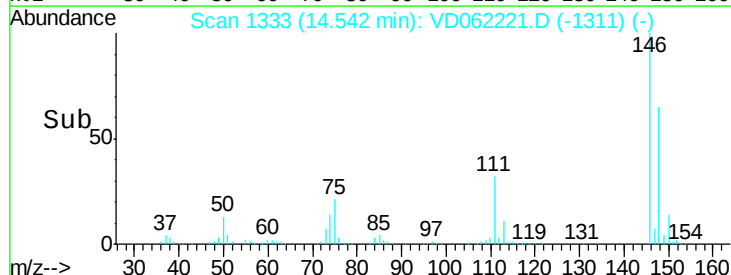
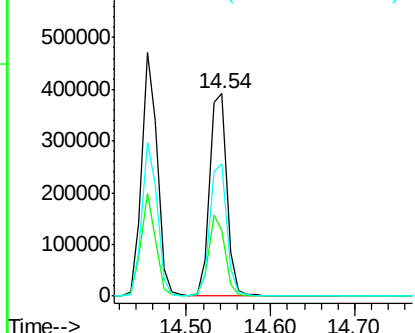
Lab File: VD062221.D

Acq: 10 May 2019 17:54

Tgt Ion:	146	Resp:	560159
Ion Ratio	Lower	Upper	
146	100		
111	32.4	20.2	60.5
148	65.4	32.0	96.2



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





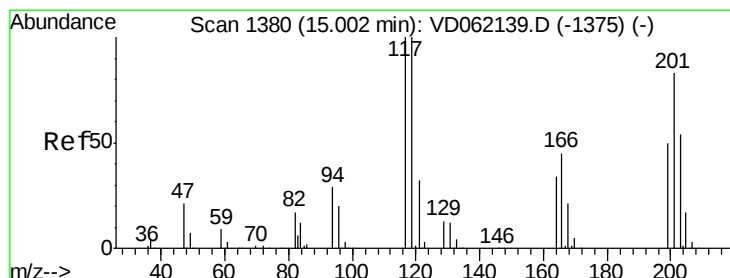
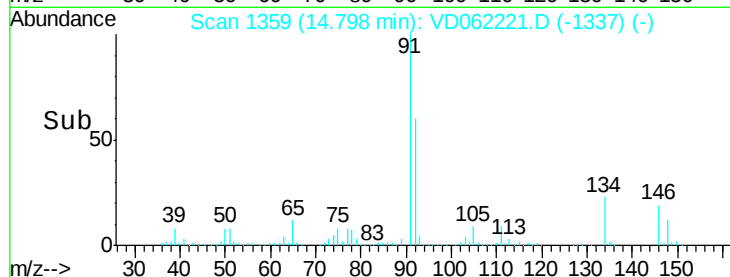
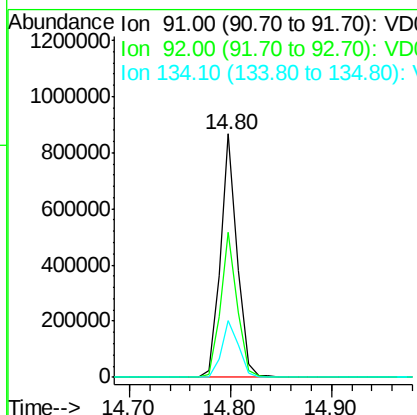
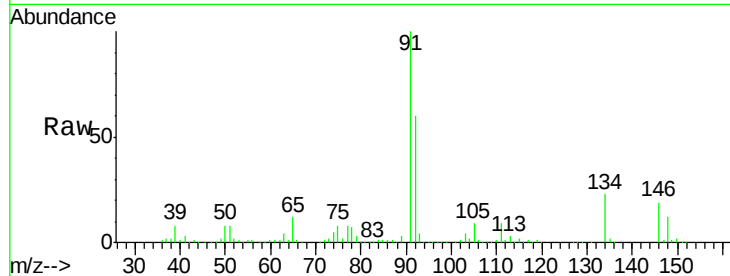
#89
n-Butylbenzene
Concen: 52.365 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1006251
Ion Ratio Lower Upper
91 100
92 59.5 30.3 91.0
134 23.4 14.5 43.6

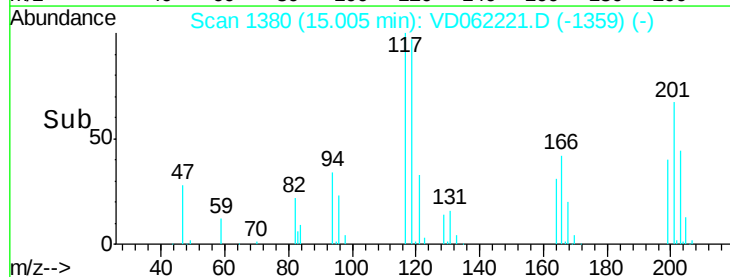
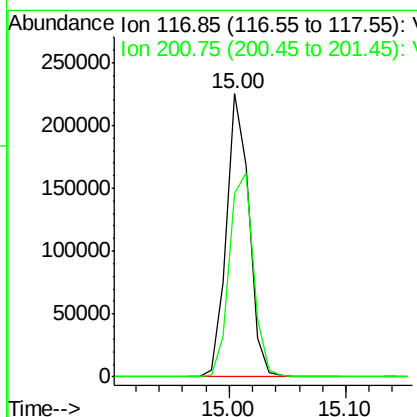
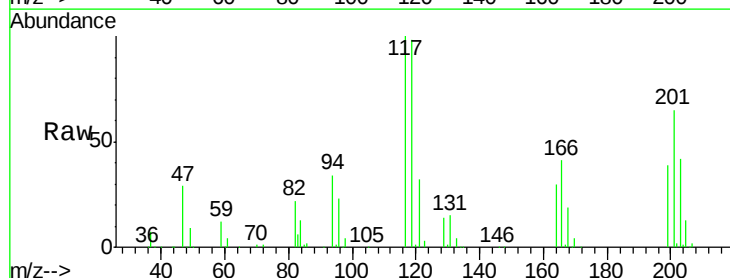
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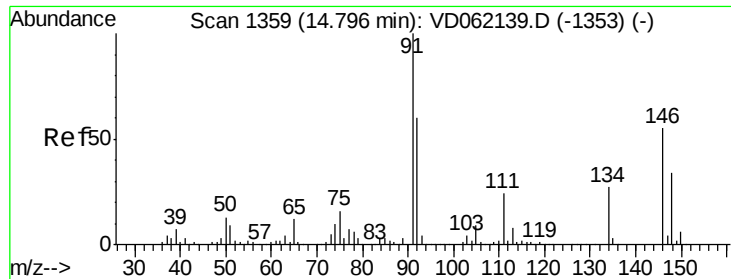
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#90
Hexachloroethane
Concen: 51.870 ug/l
RT: 15.00 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion: 117 Resp: 301996
Ion Ratio Lower Upper
117 100
201 64.8 30.2 90.6





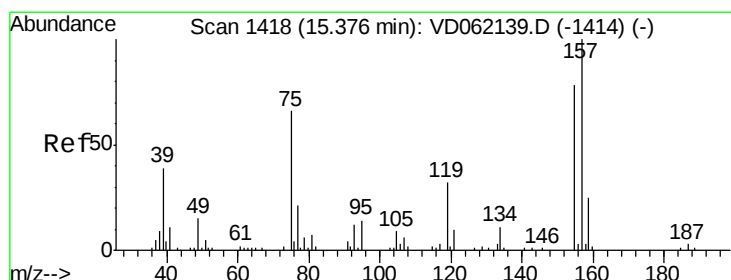
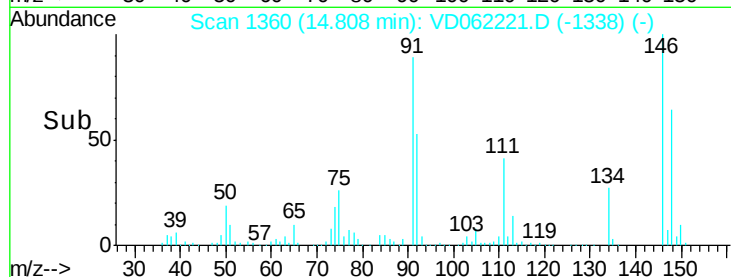
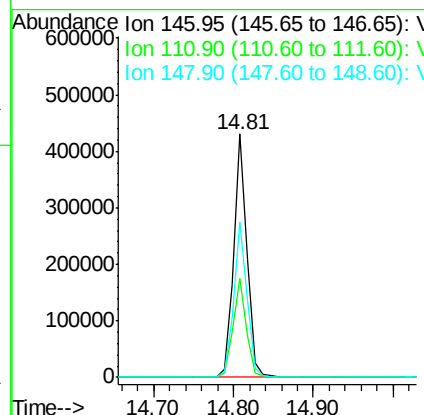
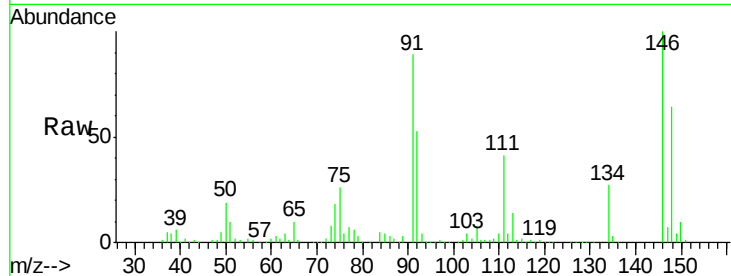
#91
 1,2-Dichlorobenzene
 Concen: 52.192 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	507552		
111	40.9	20.0	59.9	
148	63.7	32.3	96.8	

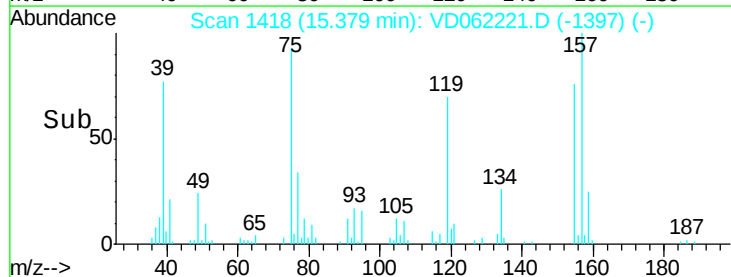
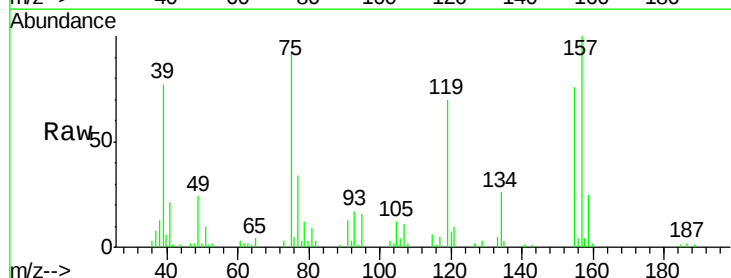
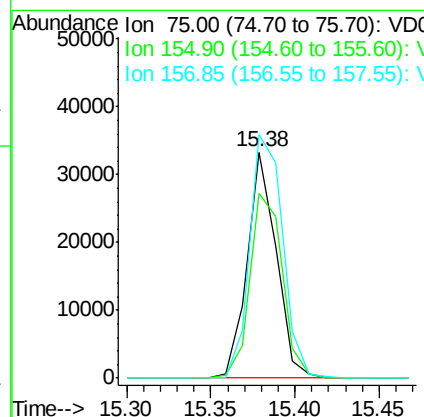
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.183 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	39598		
155	81.8	55.3	165.8	
157	107.7	67.8	203.2	





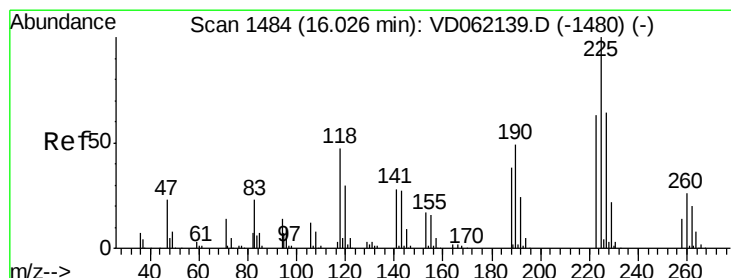
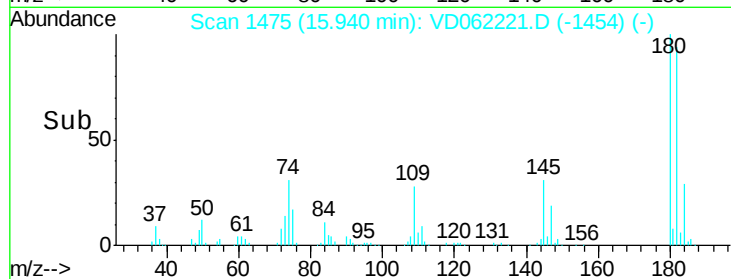
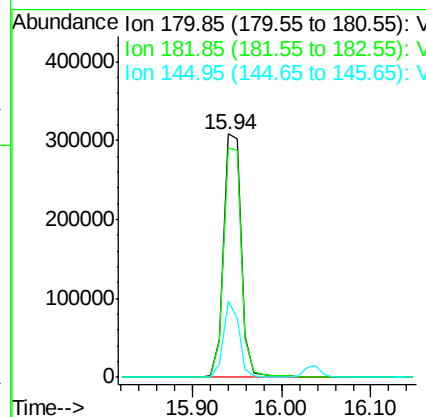
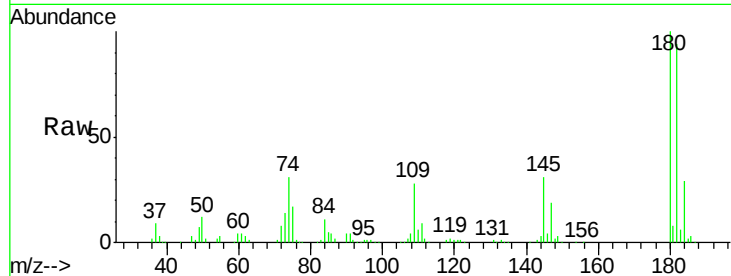
#93
 1,2,4-Trichlorobenzene
 Concen: 61.138 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	49.3	147.8
145	31.1	16.2	48.6

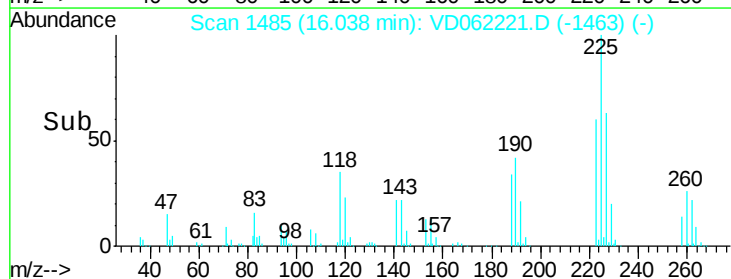
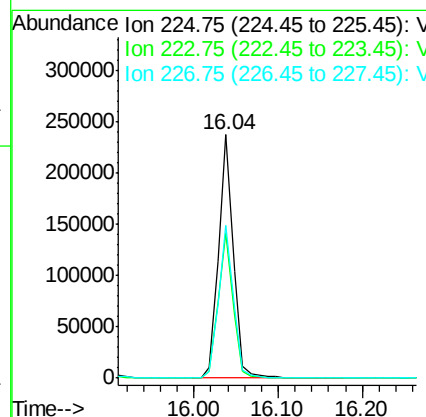
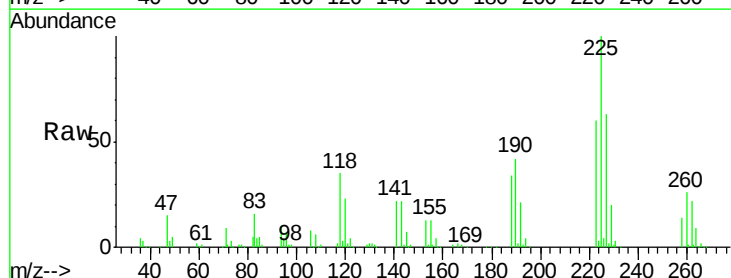
Manual Integrations
 APPROVED

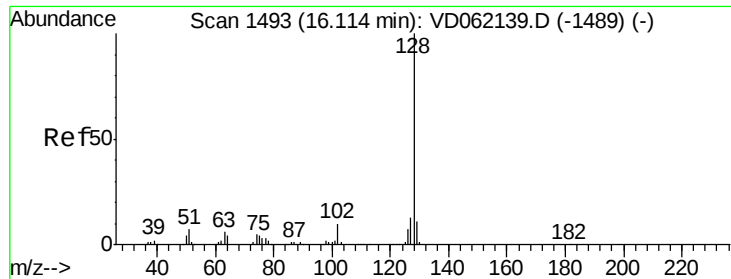
MMDadoda
 5/13/2019 4:04:05 AM



#94
 Hexachlorobutadiene
 Concen: 54.959 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062221.D
 Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.5	30.6	92.0
227	62.6	32.0	96.2





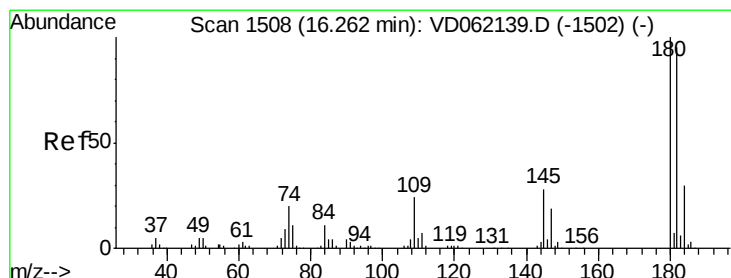
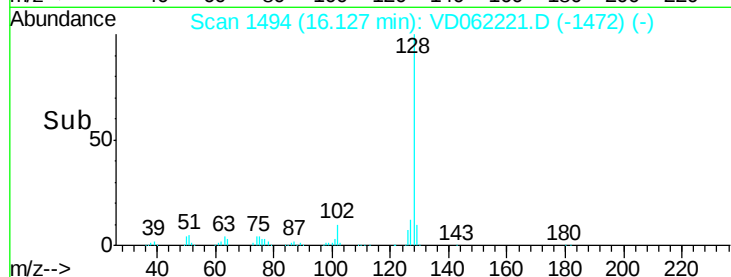
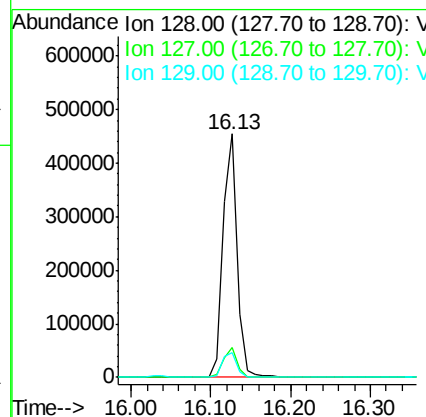
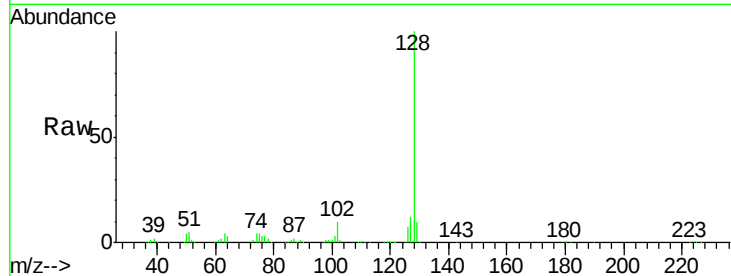
#95
Naphthalene
Concen: 57.909 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.8
129	10.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/13/2019 4:04:05 AM



#96
1,2,3-Trichlorobenzene
Concen: 78.418 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062221.D
Acq: 10 May 2019 17:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.8	47.0	141.0
145	27.5	17.0	51.0

