

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050919\
 Data File : VD062185.D
 Acq On : 9 May 2019 13:23
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 11:54:13 AM

Quant Time: May 10 04:26:38 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	7.03	168	958256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1261923	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	1096256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	557987	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.43	65	452060	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	6.90	113	588541	56.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.42%	
50) Toluene-d8	10.40	98	1345364	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	
62) 4-Bromofluorobenzene	13.54	95	549459	54.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	483399	52.745	ug/l	96
3) Chloromethane	1.75	50	328157	49.553	ug/l	95
4) Vinyl Chloride	1.84	62	359149	55.183	ug/l	100
5) Bromomethane	2.14	94	103409	67.809	ug/l	92
6) Chloroethane	2.26	64	159419	58.375	ug/l	96
7) Trichlorofluoromethane	2.52	101	685093	54.144	ug/l	99
8) Diethyl Ether	2.86	74	133702	54.790	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.14	101	492448	51.449	ug/l	95
10) Methyl Iodide	3.29	142	763379	52.770	ug/l	94
11) Tert butyl alcohol	4.04	59	119370	262.605	ug/l	98
12) 1,1-Dichloroethene	3.11	96	399655	54.698	ug/l	94
13) Acrolein	3.02	56	98709	209.950	ug/l	98
14) Allyl chloride	3.61	41	585689	55.131	ug/l	88
15) Acrylonitrile	4.18	53	319639	267.526	ug/l	91
16) Acetone	3.20	43	598187	320.312	ug/l #	86
17) Carbon Disulfide	3.36	76	1217923	57.945	ug/l	100
18) Methyl Acetate	3.62	43	178122	53.350	ug/l	91
19) Methyl tert-butyl Ether	4.22	73	817880	52.224	ug/l	95
20) Methylene Chloride	3.80	84	419692	53.823	ug/l	93
21) trans-1,2-Dichloroethene	4.20	96	439306	54.032	ug/l	95
22) Diisopropyl ether	5.09	45	1295272	57.295	ug/l	94
23) Vinyl Acetate	5.03	43	3594915	301.393	ug/l	98
24) 1,1-Dichloroethane	4.96	63	761564	55.842	ug/l	98
25) 2-Butanone	6.05	43	596479	292.821	ug/l	96
26) 2,2-Dichloropropane	6.01	77	784349	57.736	ug/l	99
27) cis-1,2-Dichloroethene	6.02	96	519682	57.104	ug/l	96
28) Bromochloromethane	6.42	49	297905	55.521	ug/l	93
29) Tetrahydrofuran	6.43	42	253636	270.236	ug/l	98
30) Chloroform	6.64	83	917072	55.796	ug/l	100
31) Cyclohexane	6.93	56	557898	59.710	ug/l	96
32) 1,1,1-Trichloroethane	6.84	97	904465	58.220	ug/l	98
36) 1,1-Dichloropropene	7.13	75	608567	58.818	ug/l	98
37) Ethyl Acetate	6.15	43	253583	57.792	ug/l #	94
38) Carbon Tetrachloride	7.09	117	865893m	60.465	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	584560	58.967	ug/l	98
40) Benzene	7.43	78	1375346	58.867	ug/l	99
41) Methacrylonitrile	6.42	41	322543	60.152	ug/l #	90
42) 1,2-Dichloroethane	7.56	62	619216	62.554	ug/l	96
43) Isopropyl Acetate	9.21	43	355784	57.173	ug/l #	93
44) Trichloroethene	8.52	130	532037	59.760	ug/l	86
45) 1,2-Dichloropropane	8.92	63	359085	62.136	ug/l	99
46) Dibromomethane	9.05	93	273492	58.197	ug/l #	85
47) Bromodichloromethane	9.36	83	690204	60.044	ug/l	96
48) Methyl methacrylate	9.10	41	218789	57.079	ug/l	88
49) 1,4-Dioxane	9.06	88	43765	1058.224	ug/l	99
51) 4-Methyl-2-Pentanone	10.29	43	1170859	292.703	ug/l	99
52) Toluene	10.49	92	898711	59.120	ug/l	95
53) t-1,3-Dichloropropene	10.90	75	601399	60.534	ug/l	99
54) cis-1,3-Dichloropropene	10.02	75	665554	61.408	ug/l	92
55) 1,1,2-Trichloroethane	11.17	97	329338	61.231	ug/l	95
56) Ethyl methacrylate	11.03	69	366568	65.585	ug/l	93
57) 1,3-Dichloropropane	11.39	76	488721	60.145	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.84	63	844529	276.622	ug/l	98
59) 2-Hexanone	11.52	43	907552	307.825	ug/l	97
60) Dibromochloromethane	11.68	129	555089	59.717	ug/l	100
61) 1,2-Dibromoethane	11.79	107	418426	63.988	ug/l	96
64) Tetrachloroethene	11.24	164	441813	51.540	ug/l	95
65) Chlorobenzene	12.38	112	1143677	56.013	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.50	131	482023	54.244	ug/l	95
67) Ethyl Benzene	12.51	91	1808412	52.904	ug/l	98
68) m/p-Xylenes	12.66	106	1307473	105.131	ug/l	97
69) o-Xylene	13.04	106	641638	55.495	ug/l	97
70) Styrene	13.06	104	1104463	56.389	ug/l	99
71) Bromoform	13.22	173	343976	55.637	ug/l	97
73) Isopropylbenzene	13.40	105	1773424	53.021	ug/l	100
74) N-amyl acetate	13.26	43	483200	55.102	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.69	83	349858	55.252	ug/l	99
76) 1,2,3-Trichloropropane	13.72	75	360123	54.307	ug/l	99
77) Bromobenzene	13.66	156	536960	57.348	ug/l	95
78) n-propylbenzene	13.76	91	2184460	54.750	ug/l	96
79) 2-Chlorotoluene	13.83	91	1202403	52.620	ug/l	97
80) 1,3,5-Trimethylbenzene	13.93	105	1514473	53.770	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	112325	60.002	ug/l #	82
82) 4-Chlorotoluene	13.94	91	1455010	54.110	ug/l	91
83) tert-Butylbenzene	14.18	119	1803367	56.964	ug/l	95
84) 1,2,4-Trimethylbenzene	14.22	105	1639811	58.017	ug/l	91
85) sec-Butylbenzene	14.36	105	1955138	56.328	ug/l	99
86) p-Isopropyltoluene	14.48	119	1622107	52.307	ug/l	94
87) 1,3-Dichlorobenzene	14.45	146	913948	53.434	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	904399	53.814	ug/l	98
89) n-Butylbenzene	14.78	91	1421844	51.081	ug/l	94
90) Hexachloroethane	15.00	117	458502	54.367	ug/l	73
91) 1,2-Dichlorobenzene	14.80	146	727860	51.671	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	61112	58.795	ug/l	89

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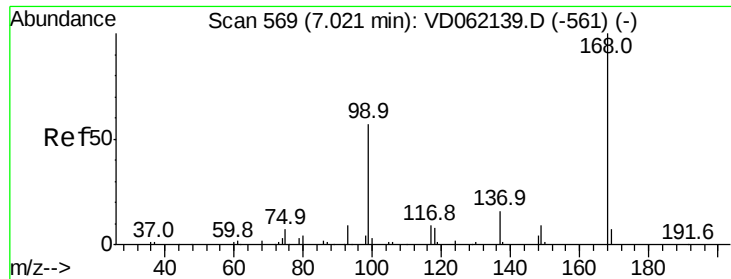
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	532425	51.929	ug/l	97
94) Hexachlorobutadiene	16.02	225	399677	52.411	ug/l	98
95) Naphthalene	16.11	128	646610	45.172	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	271199	42.069	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 958256

Ion Ratio Lower Upper

168 100

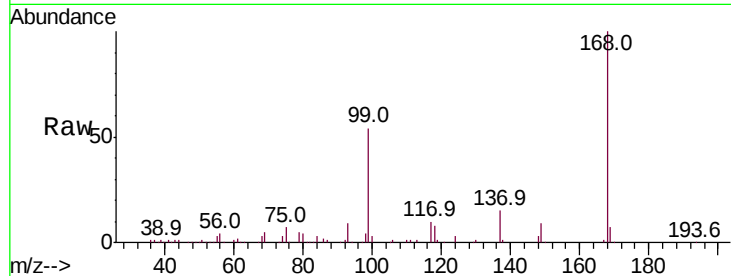
99 54.1 46.5 69.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

300000

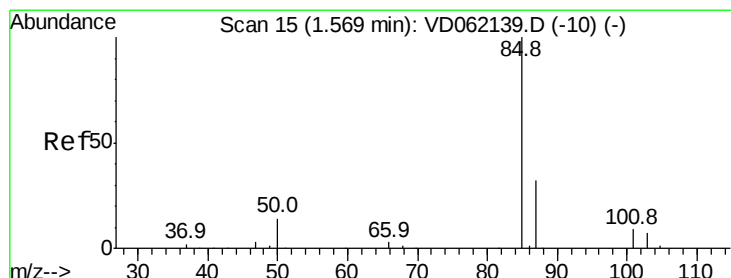
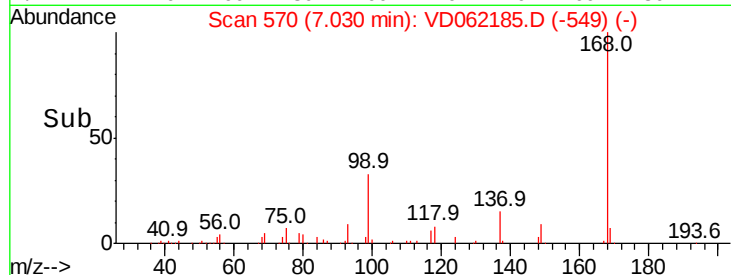
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 52.745 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD062185.D

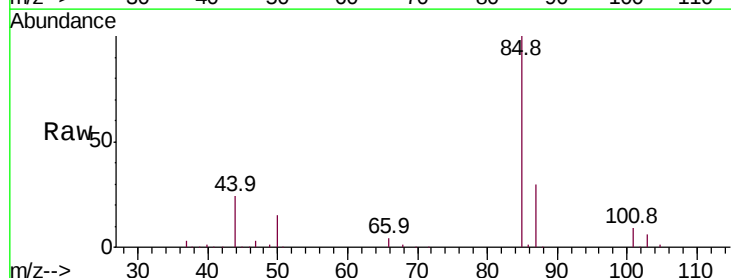
Acq: 9 May 2019 13:23

Tgt Ion: 85 Resp: 483399

Ion Ratio Lower Upper

85 100

87 30.3 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

250000

200000

150000

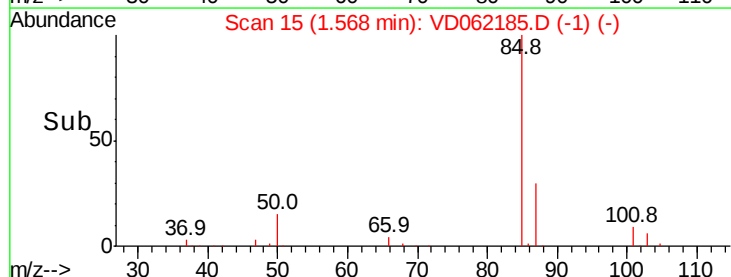
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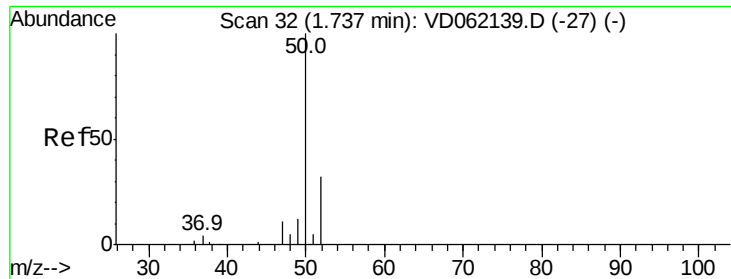
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 49.553 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 328157

Ion Ratio Lower Upper

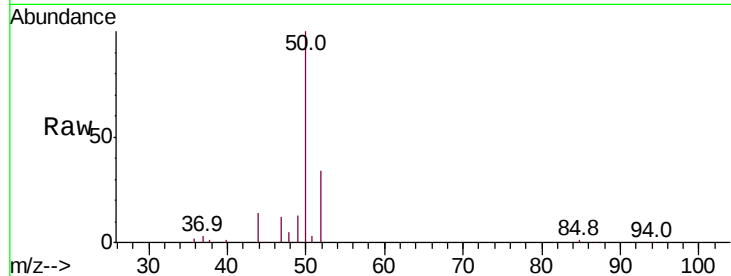
50 100

52 34.1 25.2 37.8

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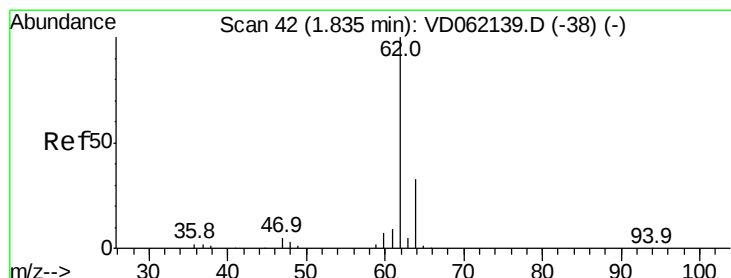
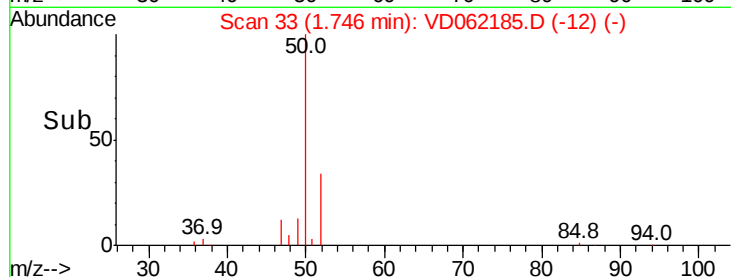
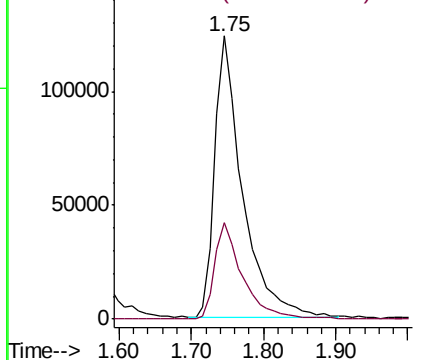
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 55.183 ug/l

RT: 1.84 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062185.D

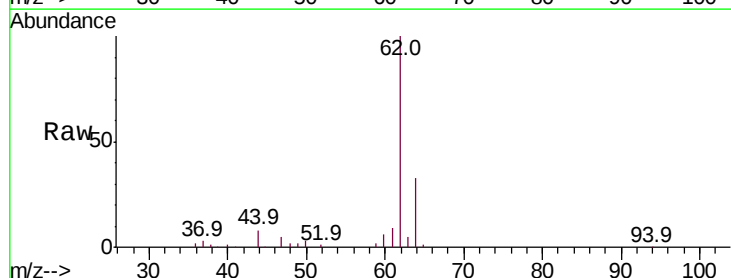
Acq: 9 May 2019 13:23

Tgt Ion: 62 Resp: 359149

Ion Ratio Lower Upper

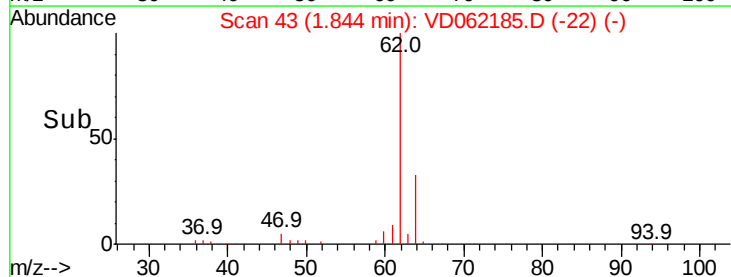
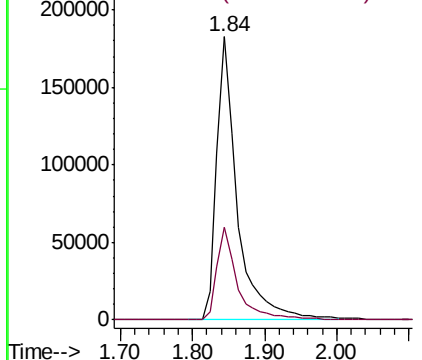
62 100

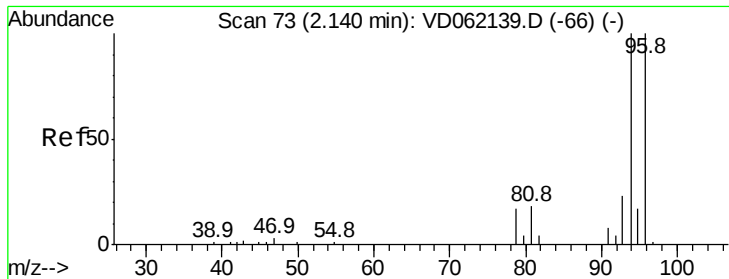
64 32.9 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 67.809 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

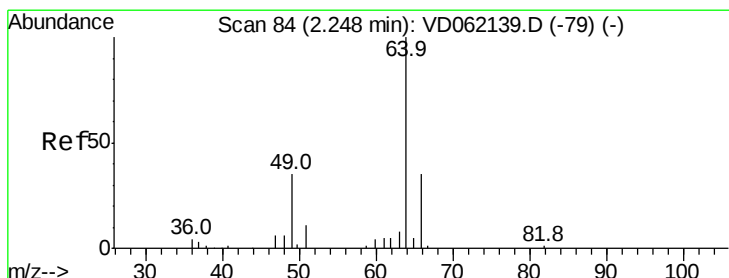
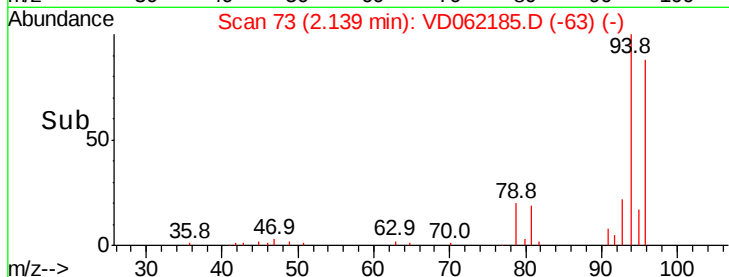
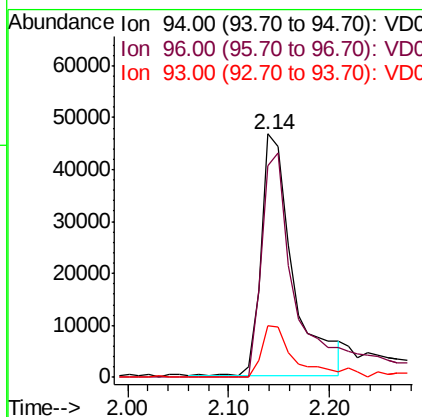
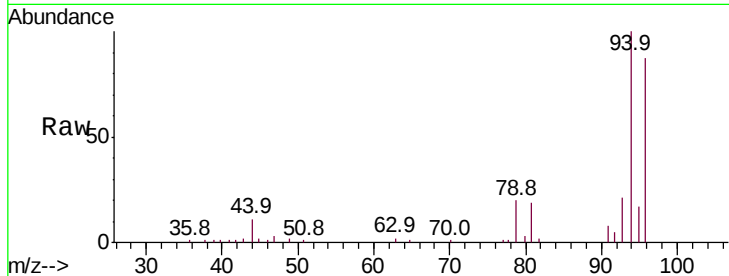
VSTDCCC050

Tot Ion: 94 Resp: 103409

Ion	Ratio	Lower	Upper
94	100		
96	87.1	76.6	115.0
93	21.4	18.5	27.7

Manual Integrations
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#6

Chloroethane

Concen: 58.375 ug/l

RT: 2.26 min Scan# 85

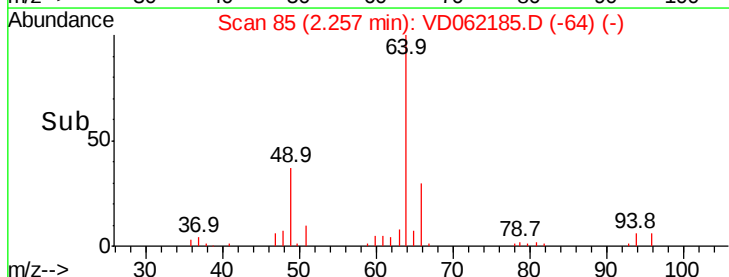
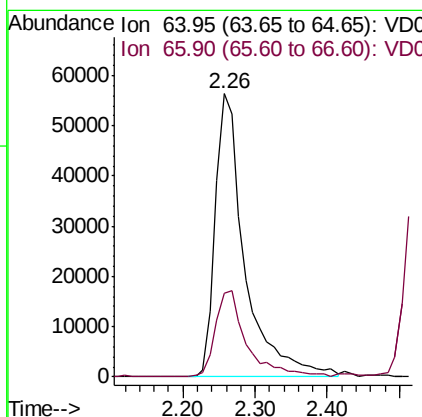
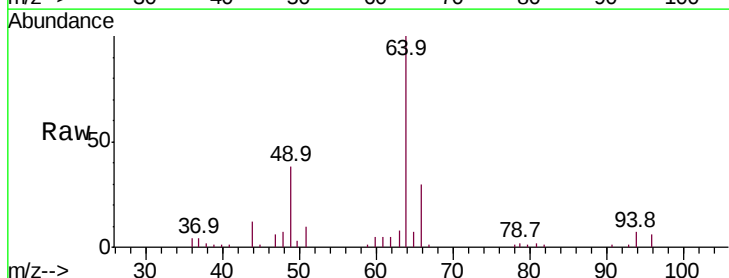
Delta R.T. 0.01 min

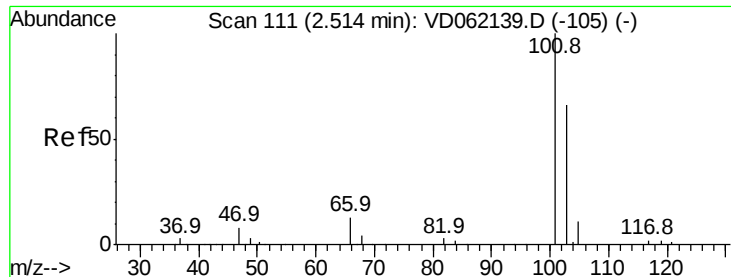
Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tgt Ion: 64 Resp: 159419

Ion	Ratio	Lower	Upper
64	100		
66	29.7	25.6	38.4





#7

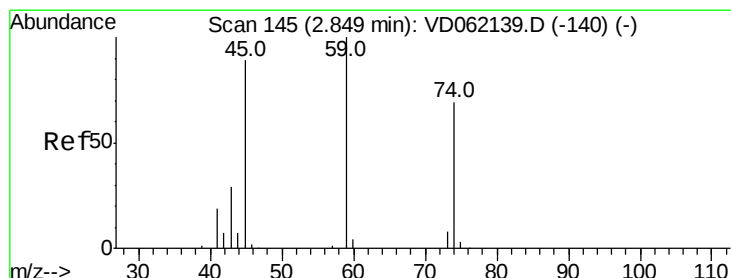
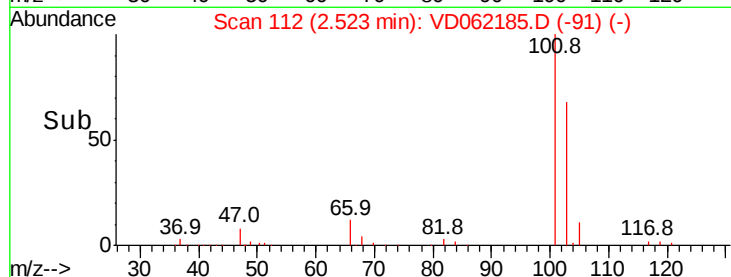
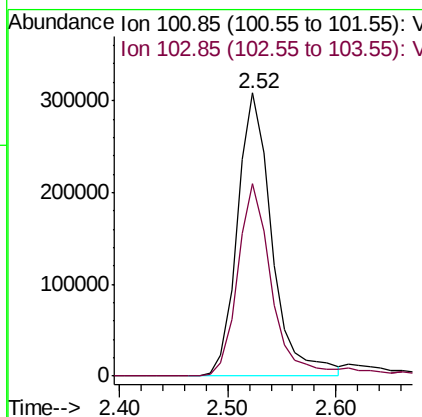
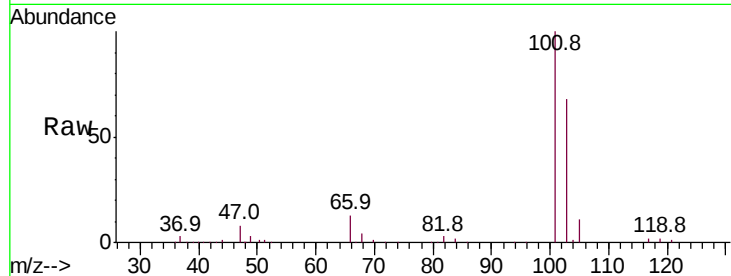
Trichlorofluoromethane
 Concen: 54.144 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. 0.01 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 685093
 Ion Ratio Lower Upper
 101 100
 103 67.9 53.6 80.4

Manual Integrations
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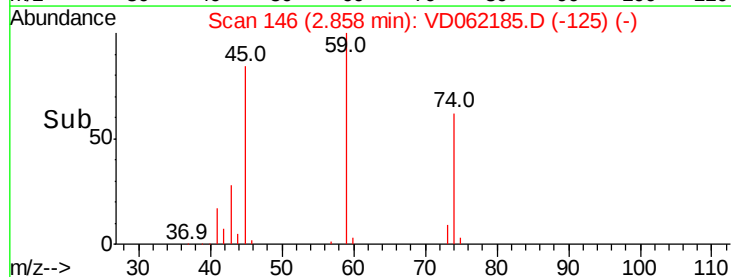
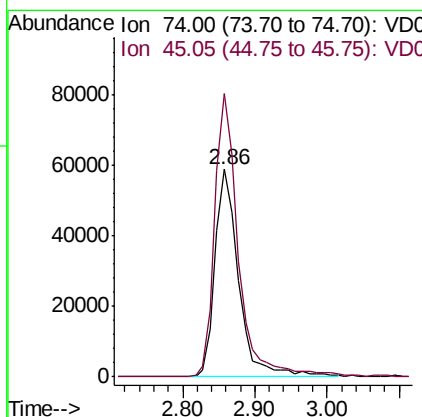
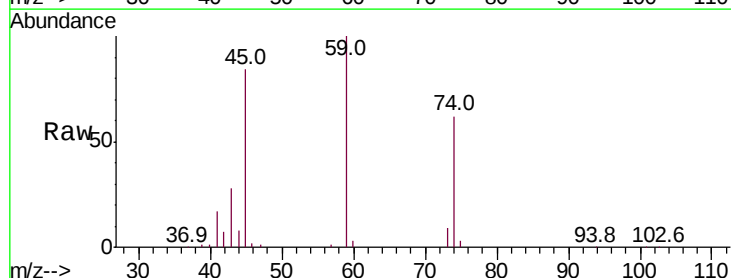
MMDadoda
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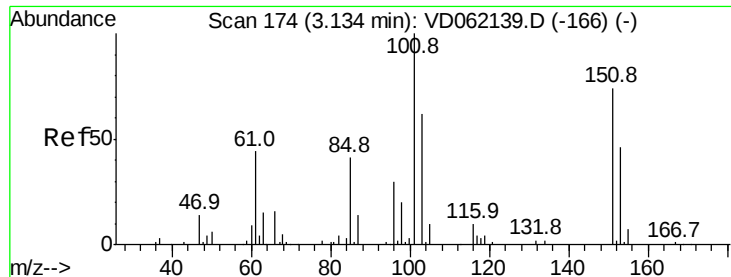


#8

Diethyl Ether
 Concen: 54.790 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. 0.01 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion: 74 Resp: 133702
 Ion Ratio Lower Upper
 74 100
 45 136.3 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.449 ug/l

RT: 3.14 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

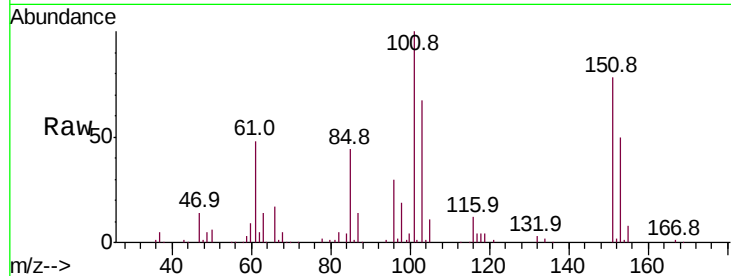
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VSTDCCC050

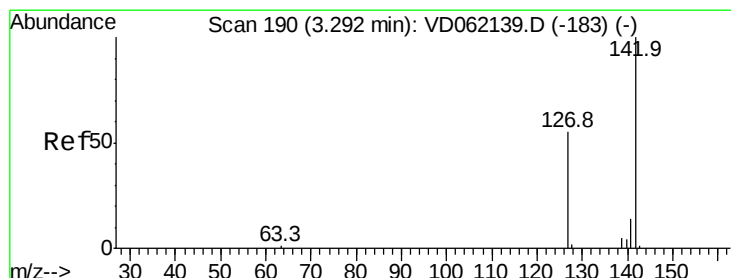
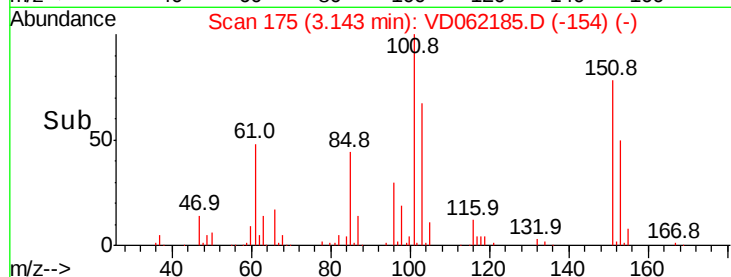
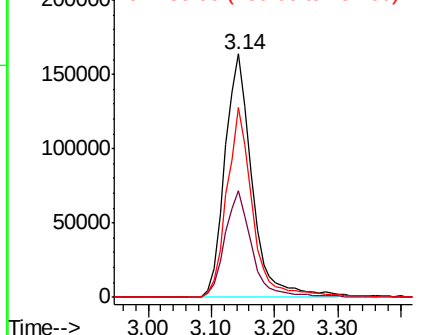
Tot Ion:	101	Resp:	492448
Ion Ratio	Lower	Upper	
101	100		
85	43.9	32.4	48.6
151	78.0	59.4	89.0

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



#10

Methyl Iodide

Concen: 52.770 ug/l

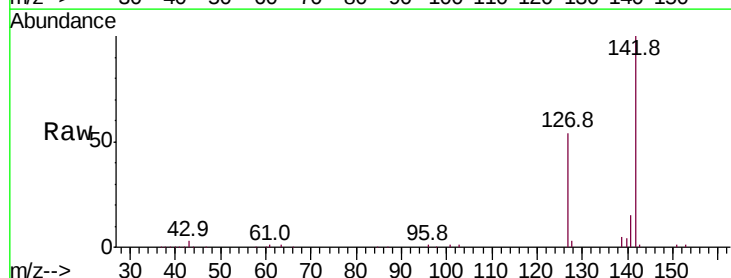
RT: 3.29 min Scan# 190

Delta R.T. -0.00 min

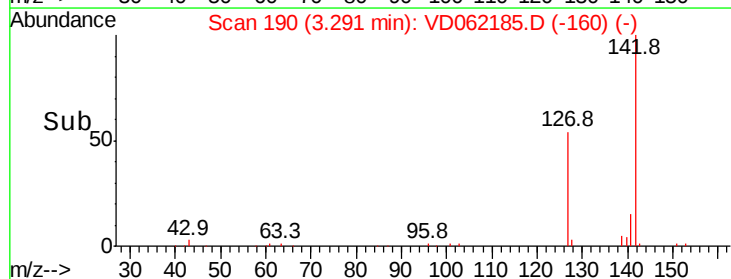
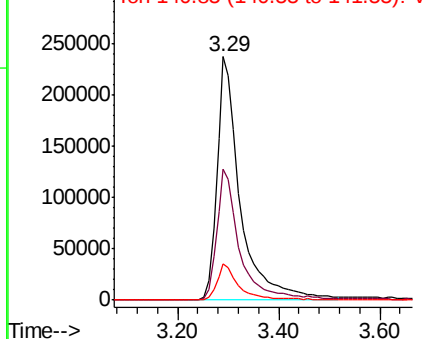
Lab File: VD062185.D

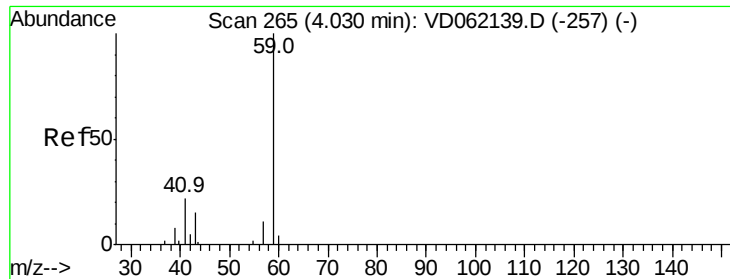
Acq: 9 May 2019 13:23

Tgt Ion:	142	Resp:	763379
Ion Ratio	Lower	Upper	
142	100		
127	53.6	38.8	58.2
141	14.7	11.4	17.0



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





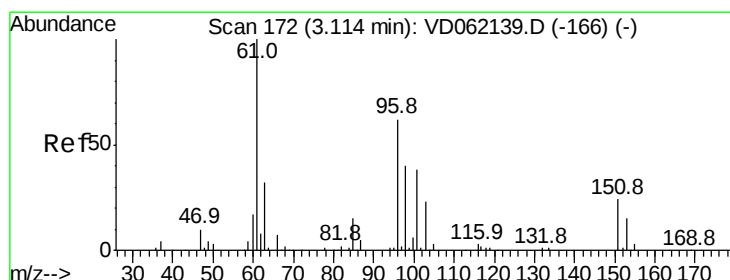
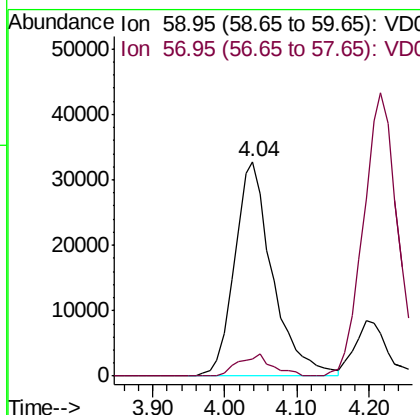
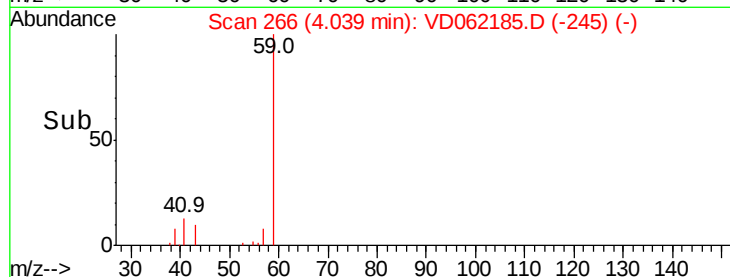
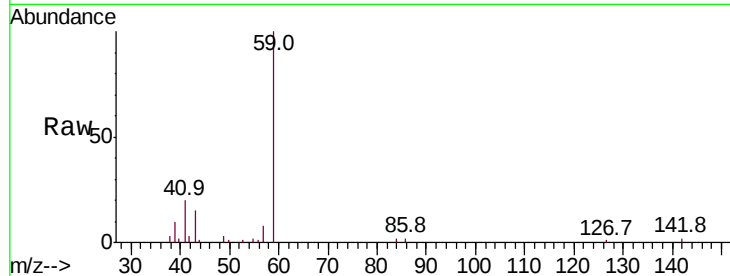
#11
Tert butyl alcohol
Concen: 262.605 ug/l
RT: 4.04 min Scan# 266
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 119370
Ion Ratio Lower Upper
59 100
57 8.0 6.9 10.3

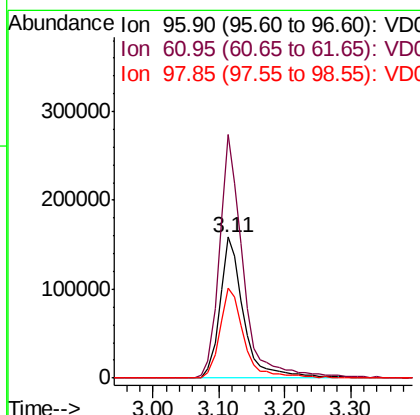
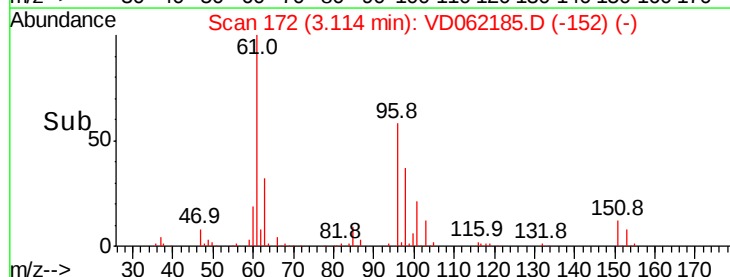
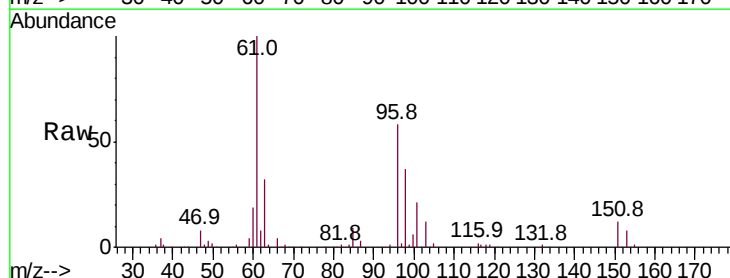
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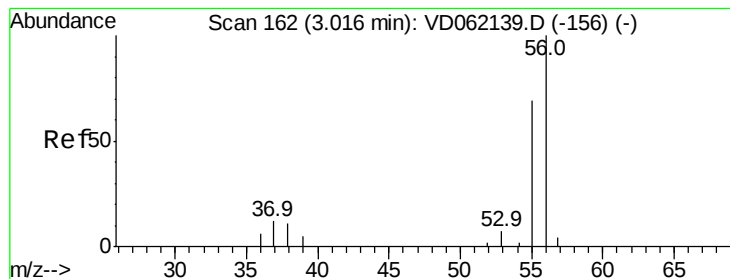
MMDadoda
5/10/2019 11:54:13 AM



#12
1,1-Dichloroethene
Concen: 54.698 ug/l
RT: 3.11 min Scan# 172
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 96 Resp: 399655
Ion Ratio Lower Upper
96 100
61 172.7 129.8 194.8
98 63.8 51.2 76.8





#13

Acrolein

Concen: 209.950 ug/l

RT: 3.02 min Scan# 163

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 98709

Ion Ratio Lower Upper

56 100

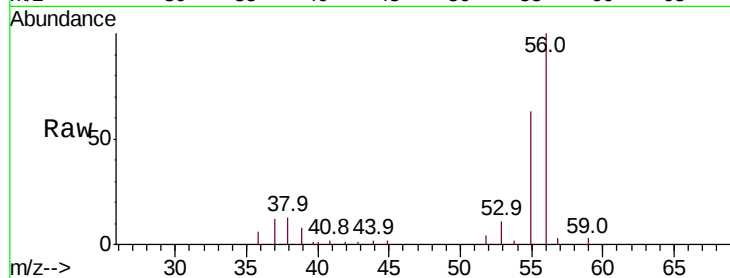
55 62.8 51.4 77.2

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

40000

30000

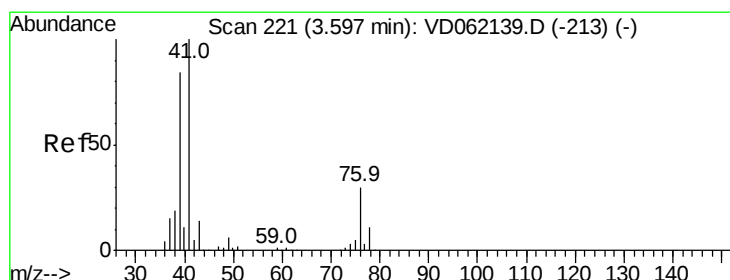
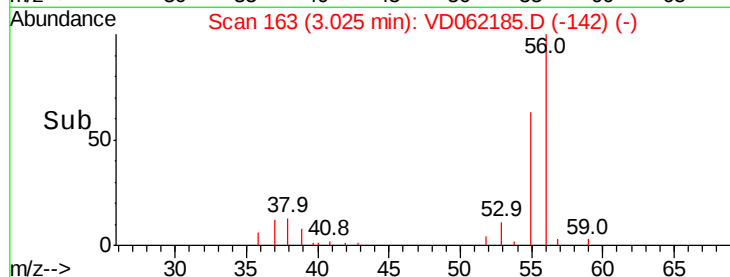
20000

10000

0

2.90 3.00 3.10 3.20

Time-->



#14

Allyl chloride

Concen: 55.131 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

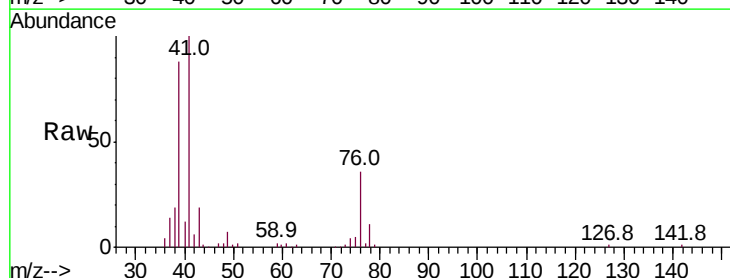
Tgt Ion: 41 Resp: 585689

Ion Ratio Lower Upper

41 100

39 88.4 60.5 90.7

76 35.8 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.61

250000

200000

150000

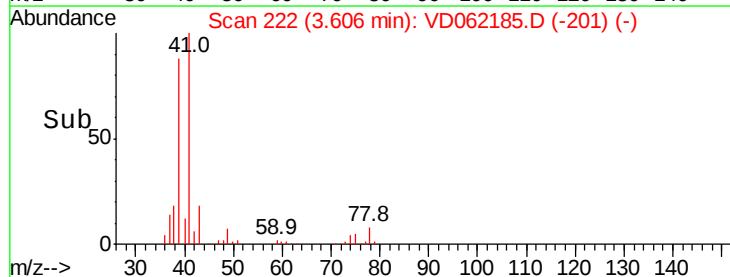
100000

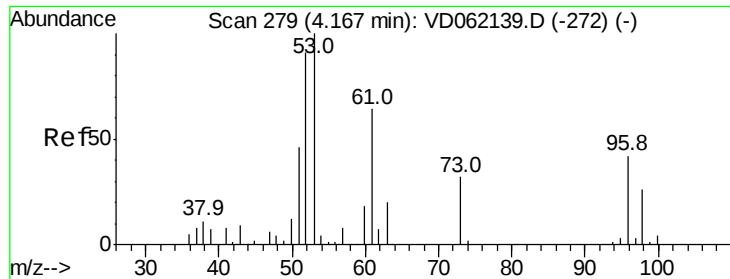
50000

0

3.40 3.50 3.60 3.70 3.80

Time-->





#15

Acrylonitrile

Concen: 267.526 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

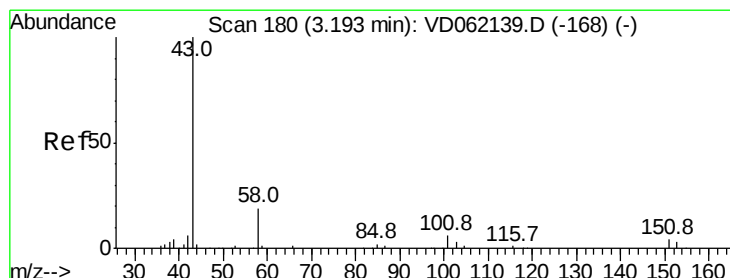
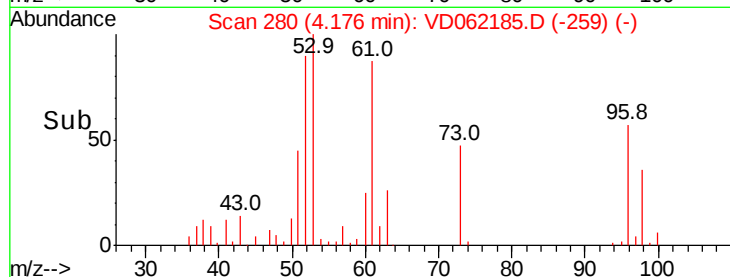
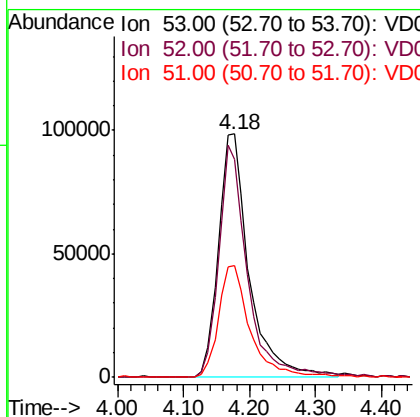
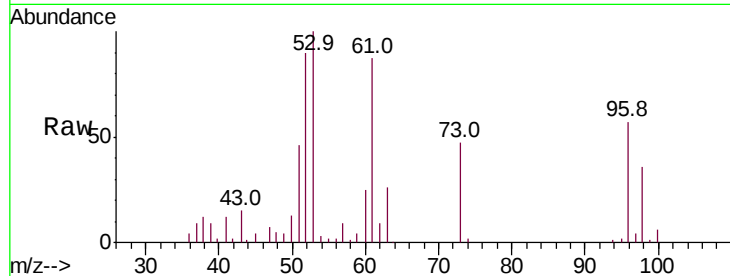
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	319639
Ion Ratio	Lower	Upper	
53	100		
52	89.5	65.0	97.4
51	46.1	32.6	48.8

Manual Integrations
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#16

Acetone

Concen: 320.312 ug/l

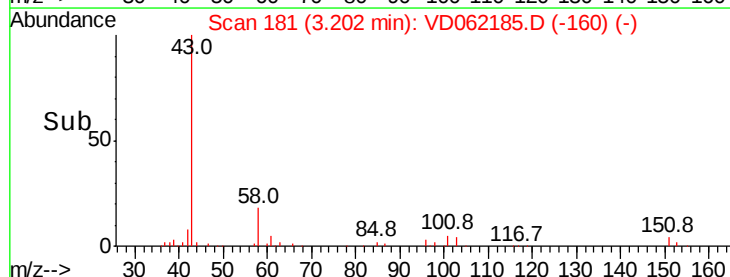
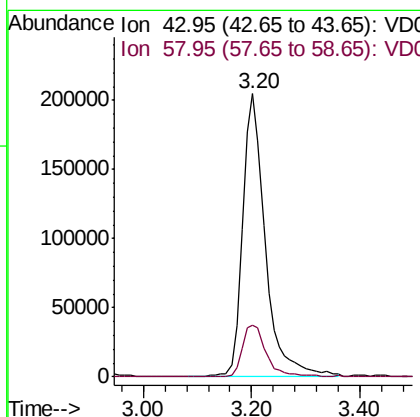
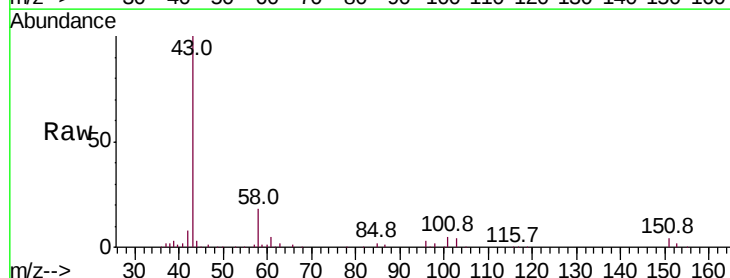
RT: 3.20 min Scan# 181

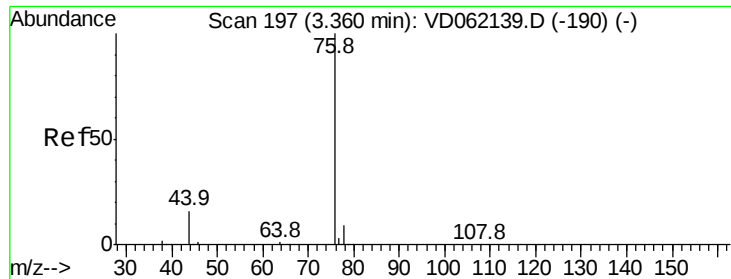
Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tgt Ion:	43	Resp:	598187
Ion Ratio	Lower	Upper	
43	100		
58	18.1	19.9	29.9#





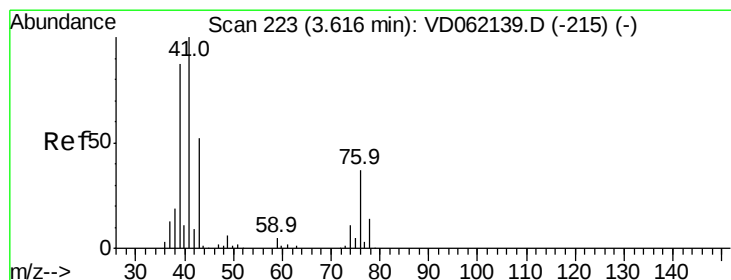
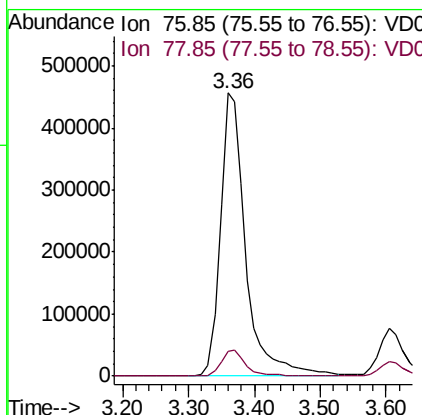
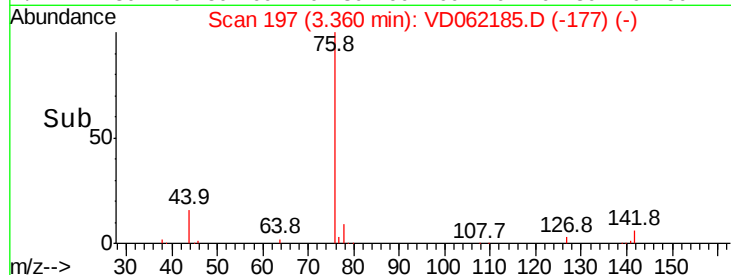
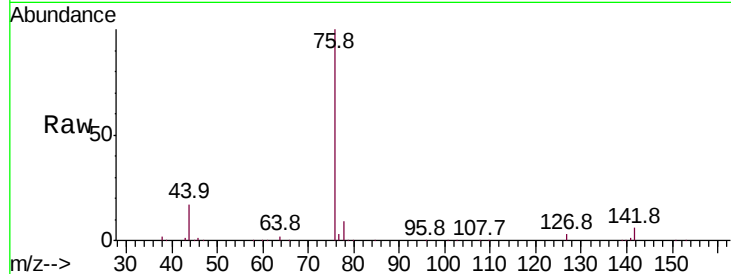
#17
Carbon Disulfide
Concen: 57.945 ug/l
RT: 3.36 min Scan# 197
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1217923
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8

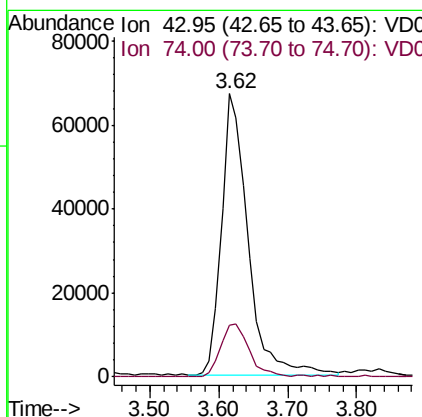
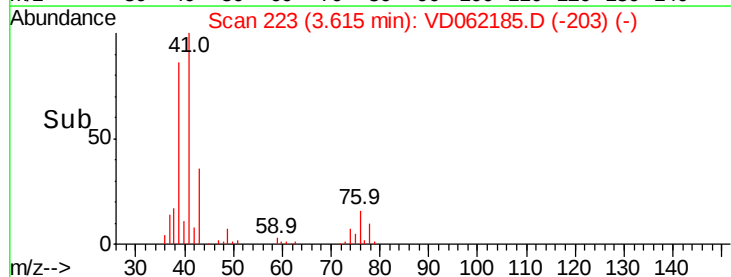
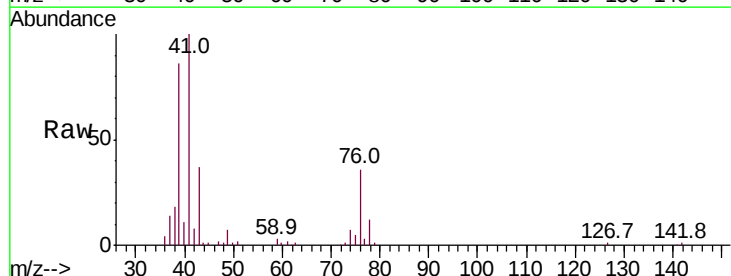
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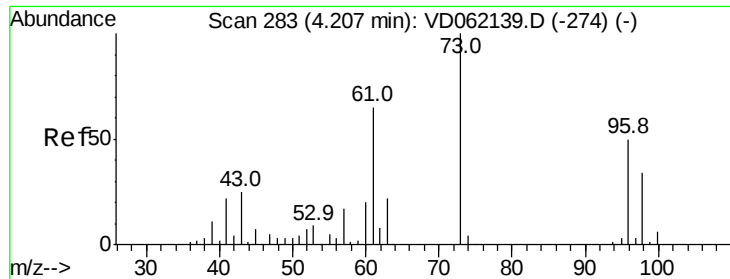
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#18
Methyl Acetate
Concen: 53.350 ug/l
RT: 3.62 min Scan# 223
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 43 Resp: 178122
Ion Ratio Lower Upper
43 100
74 18.3 18.0 27.0





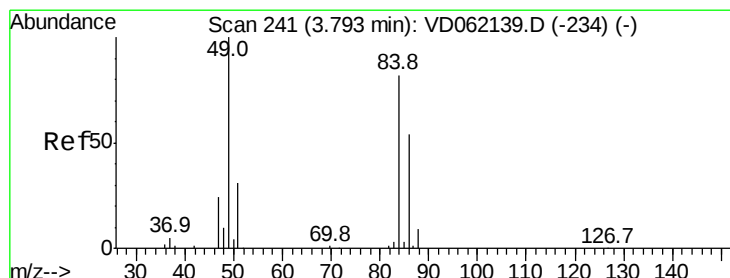
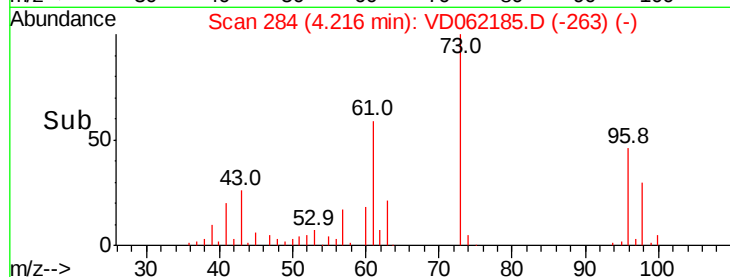
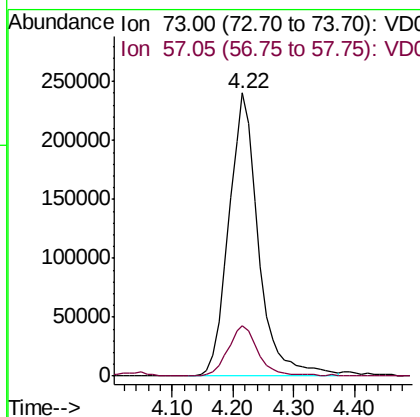
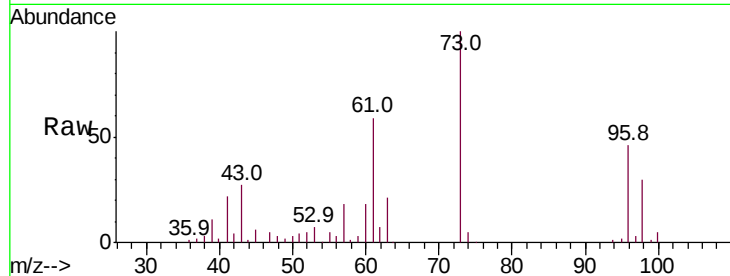
#19
Methyl tert-butyl Ether
Concen: 52.224 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

Tot Ion: 73 Resp: 817880
Ion Ratio Lower Upper
73 100
57 18.0 16.3 24.5

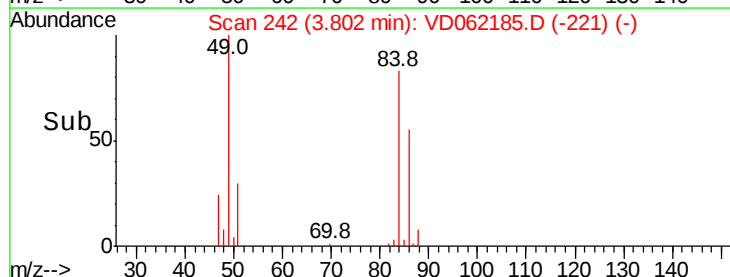
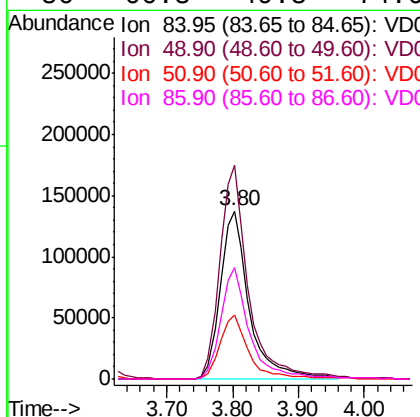
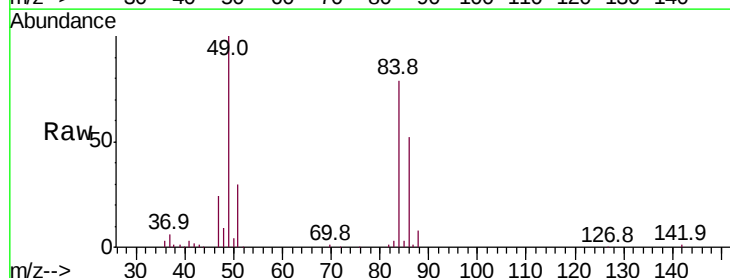
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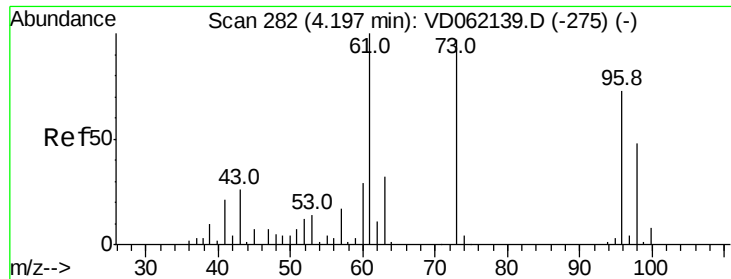
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#20
Methylene Chloride
Concen: 53.823 ug/l
RT: 3.80 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 84 Resp: 419692
Ion Ratio Lower Upper
84 100
49 127.1 94.0 141.0
51 38.1 29.0 43.4
86 66.3 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 54.032 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 439306

Ion Ratio Lower Upper

96 100

61 138.2 104.4 156.6

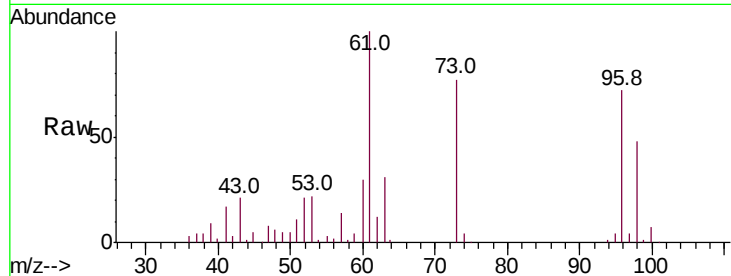
98 66.7 51.8 77.8

Manual Integrations

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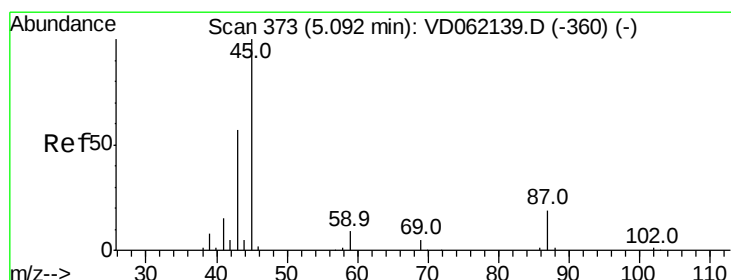
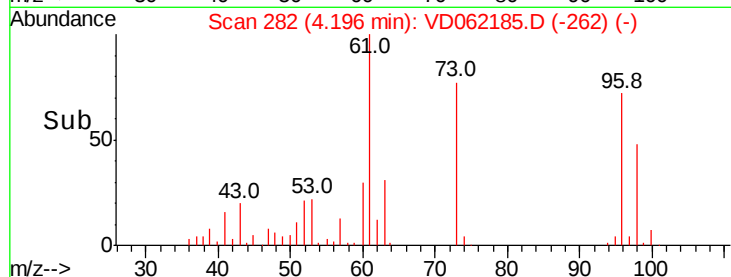
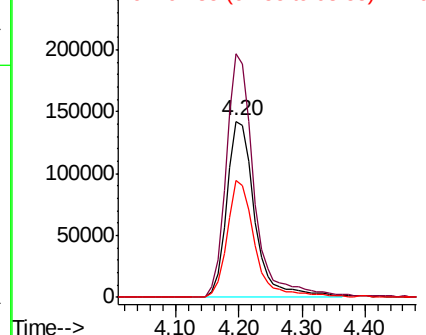


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 57.295 ug/l

RT: 5.09 min Scan# 373

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tgt Ion: 45 Resp: 1295272

Ion Ratio Lower Upper

45 100

43 63.7 46.2 69.2

87 20.3 15.9 23.9

59 9.4 7.9 11.9

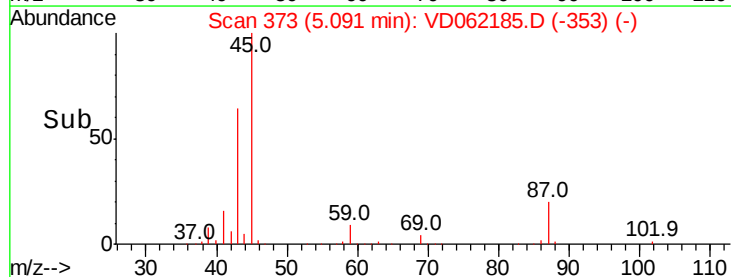
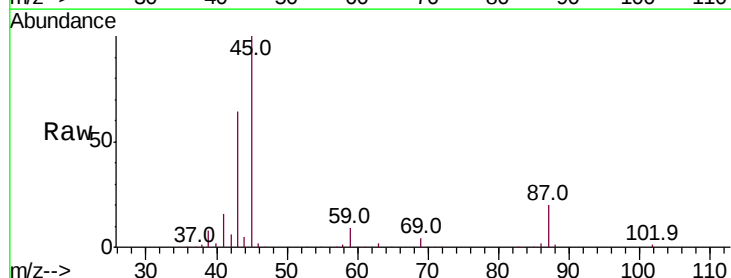
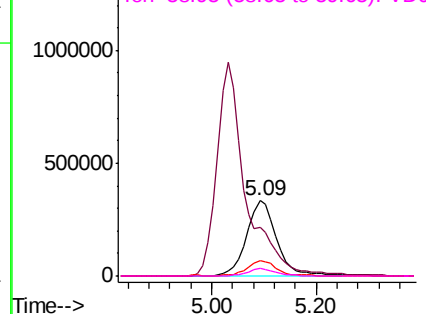
Abundance

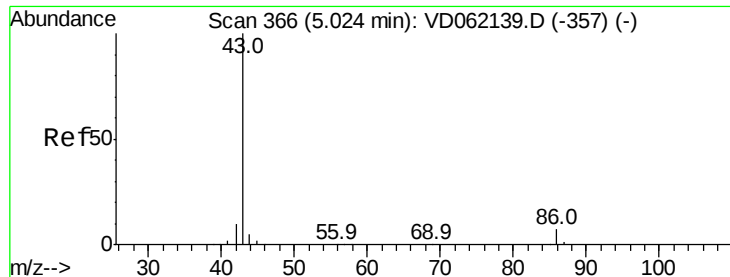
Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 301.393 ug/l

RT: 5.03 min Scan# 367

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3594915

Ion Ratio Lower Upper

43 100

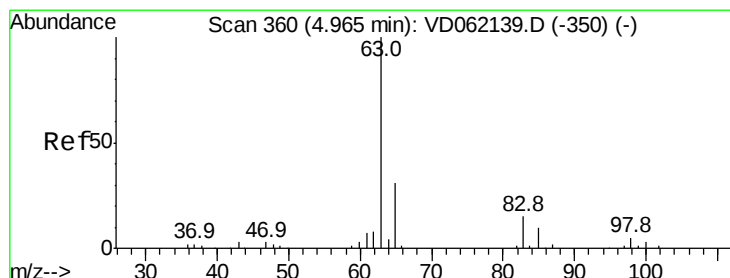
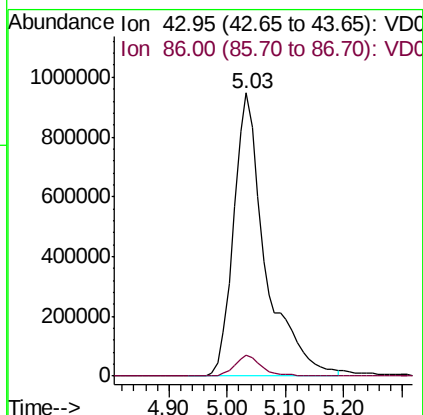
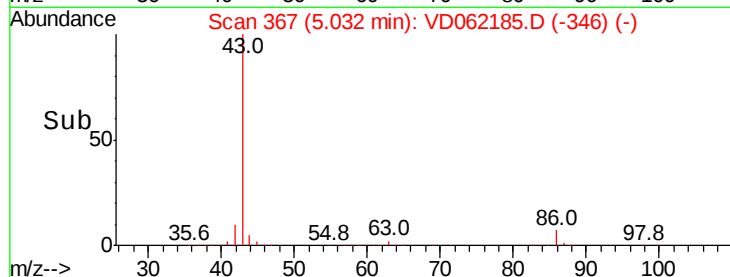
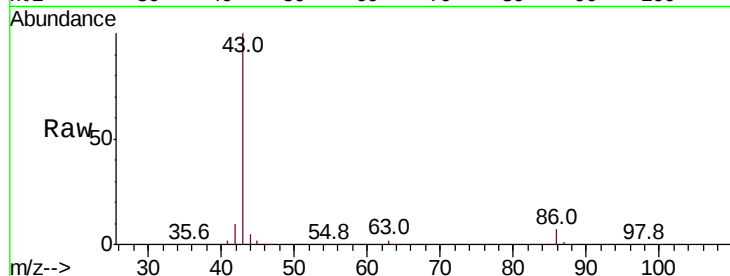
86 7.3 6.4 9.6

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#24

1,1-Dichloroethane

Concen: 55.842 ug/l

RT: 4.96 min Scan# 360

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

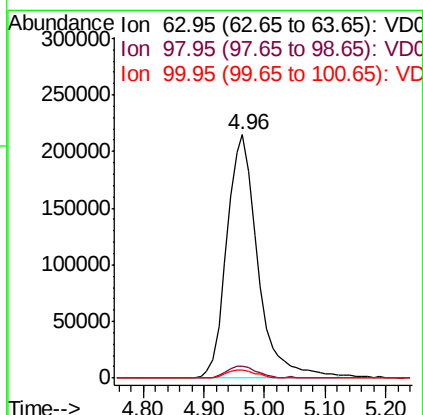
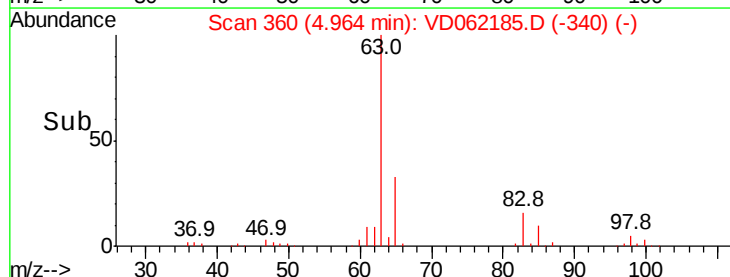
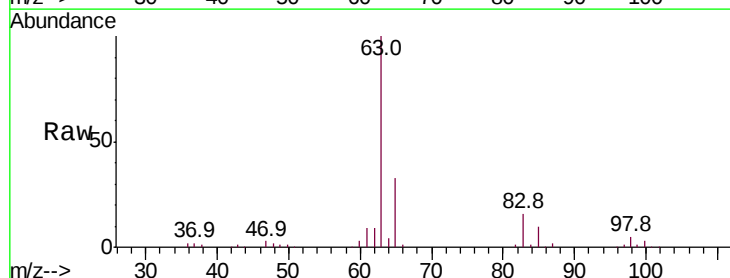
Tgt Ion: 63 Resp: 761564

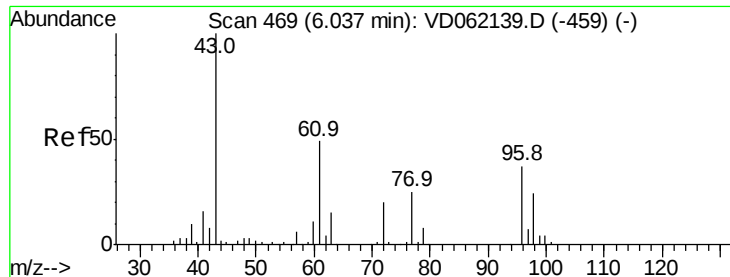
Ion Ratio Lower Upper

63 100

98 4.7 2.8 8.4

100 3.4 1.8 5.5





#25

2-Butanone

Concen: 292.821 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 596479

Ion Ratio Lower Upper

43 100

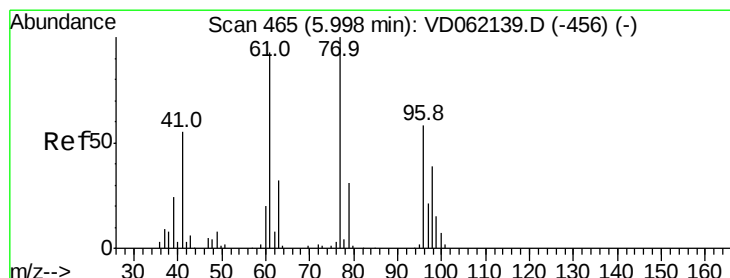
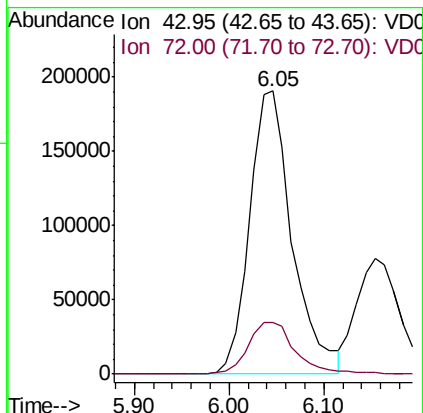
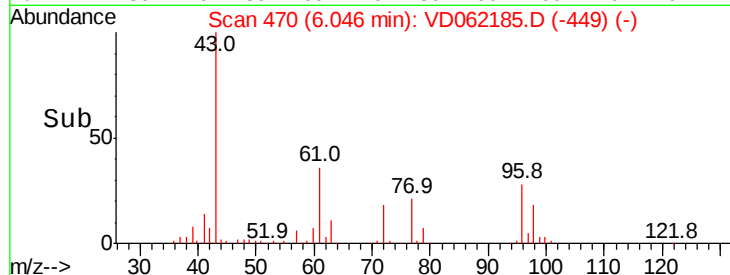
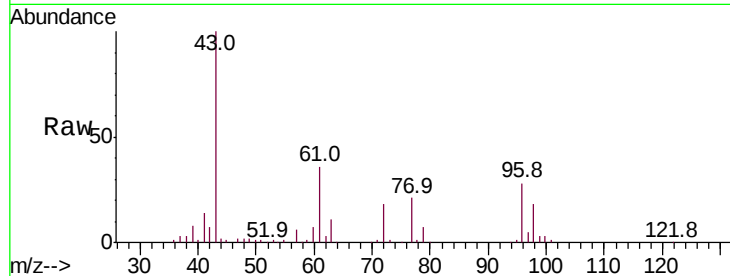
72 18.2 16.2 24.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 57.736 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD062185.D

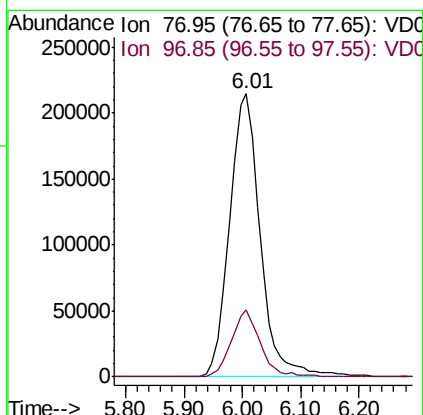
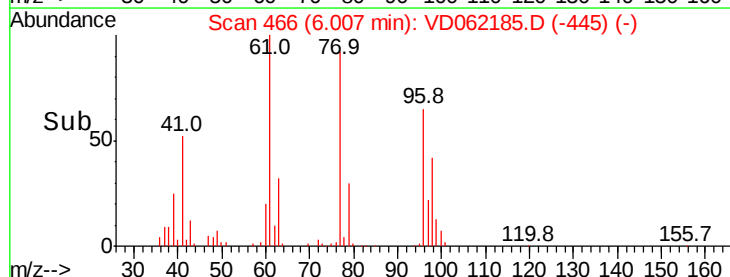
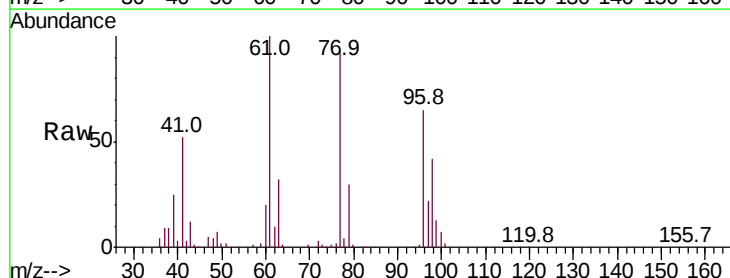
Acq: 9 May 2019 13:23

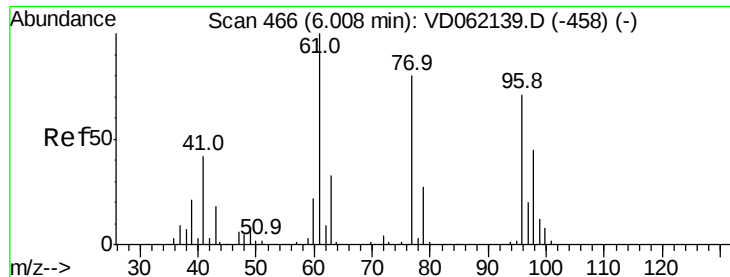
Tgt Ion: 77 Resp: 784349

Ion Ratio Lower Upper

77 100

97 23.6 11.9 35.9





#27

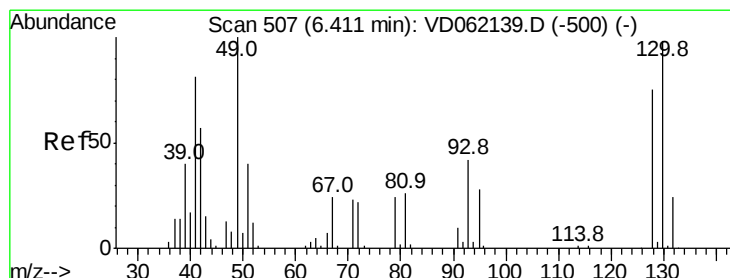
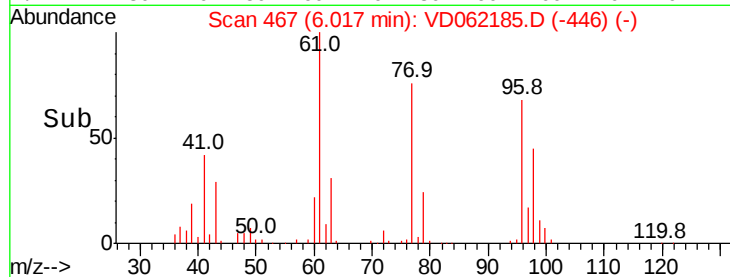
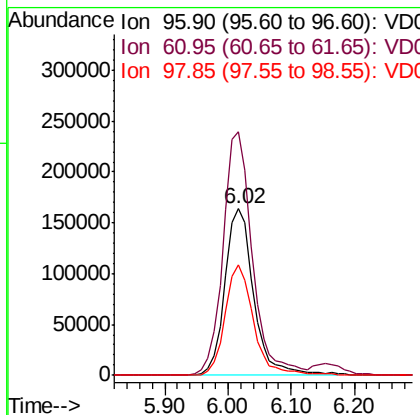
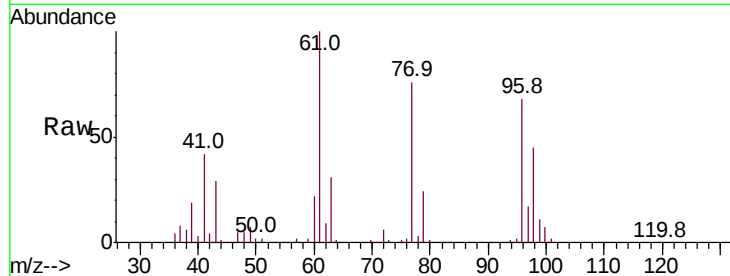
cis-1,2-Dichloroethene
Concen: 57.104 ug/l
RT: 6.02 min Scan# 467
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	519682		
61	146.1	0.0	279.8	
98	65.9	0.0	136.0	

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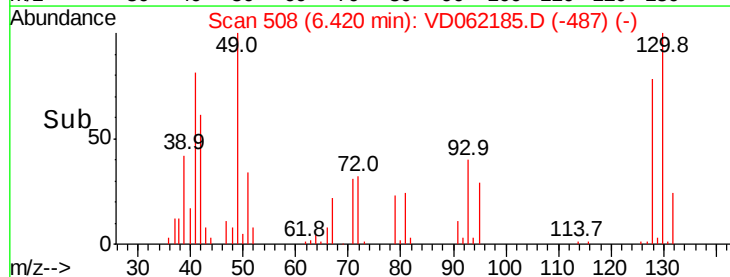
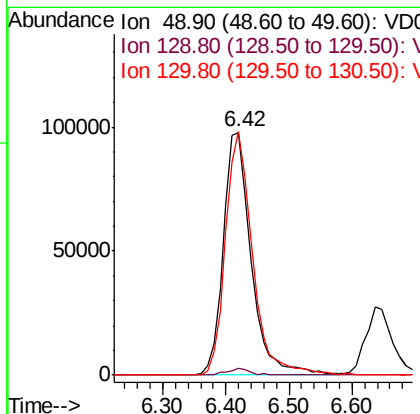
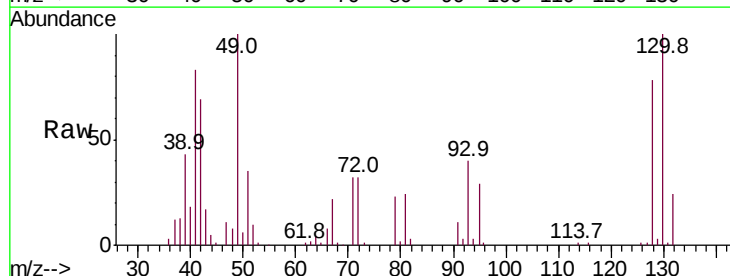
MMDadoda
5/10/2019 11:54:13 AM

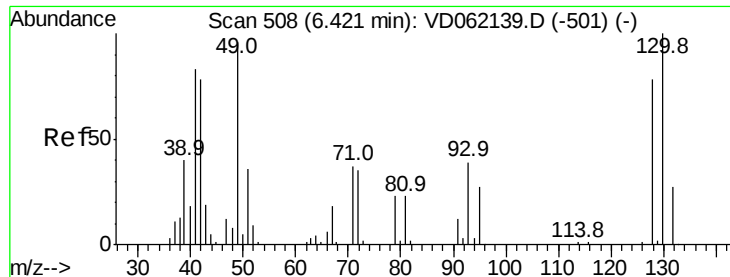


#28

Bromochloromethane
Concen: 55.521 ug/l
RT: 6.42 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	297905		
129	2.6	0.0	6.6	
130	100.4	86.7	130.1	





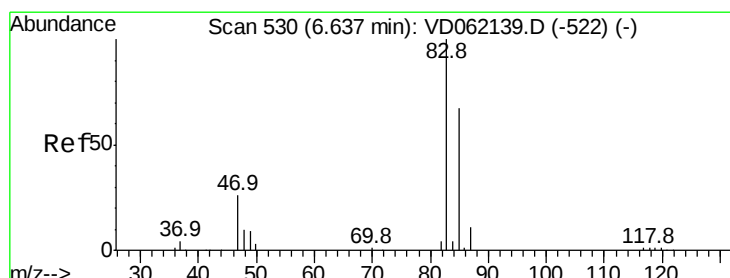
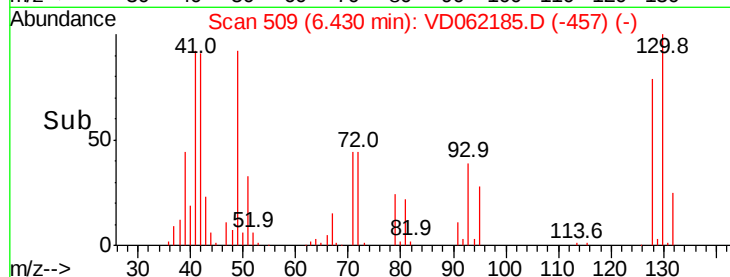
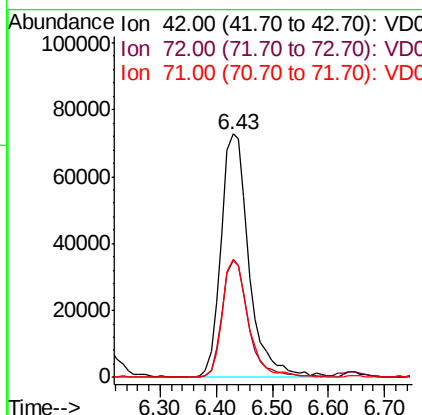
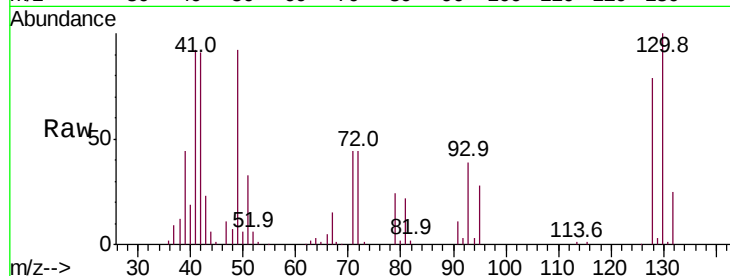
#29
Tetrahydrofuran
Concen: 270.236 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	37.8	56.6
71	45.0	36.7	55.1

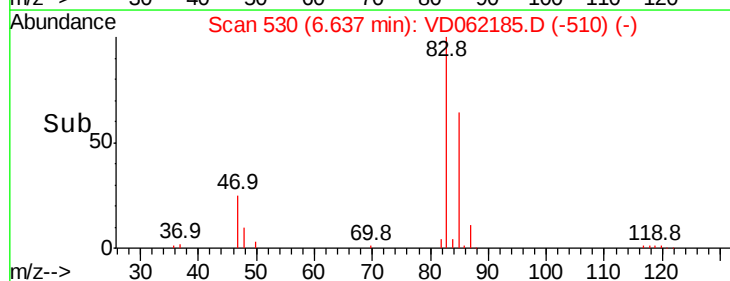
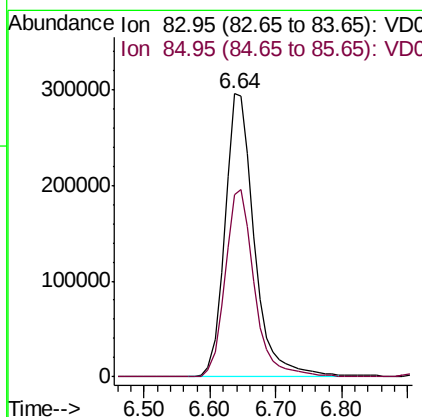
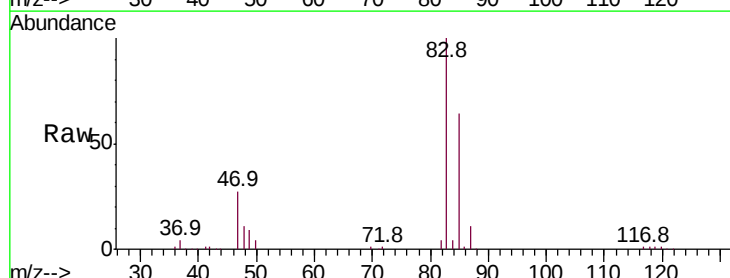
Manual Integrations
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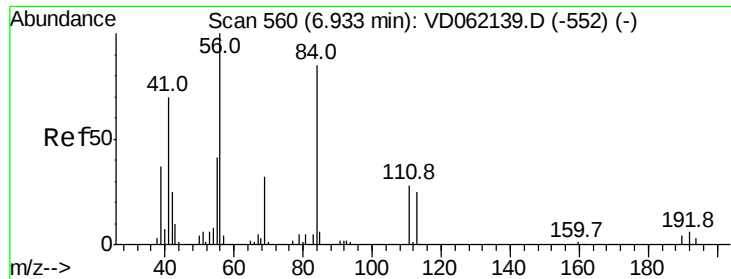
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#30
Chloroform
Concen: 55.796 ug/l
RT: 6.64 min Scan# 530
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.7	77.5





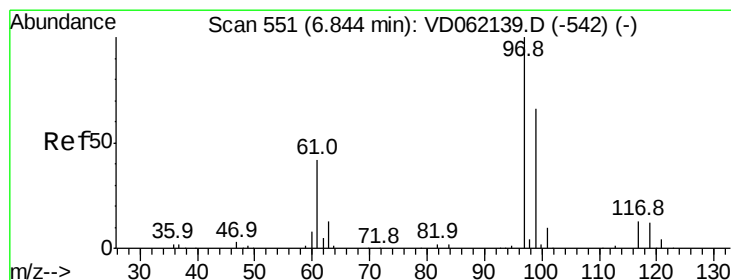
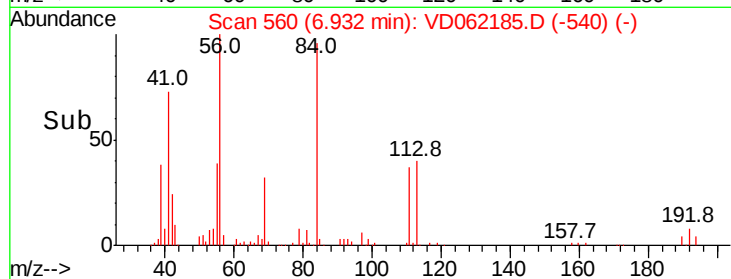
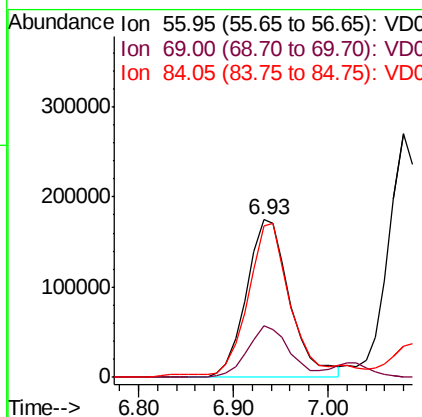
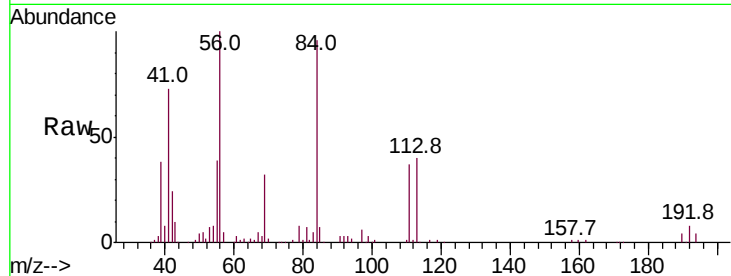
#31
Cvclohexane
Concen: 59.710 ug/l
RT: 6.93 min Scan# 560
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.8	38.6
84	95.8	72.2	108.4

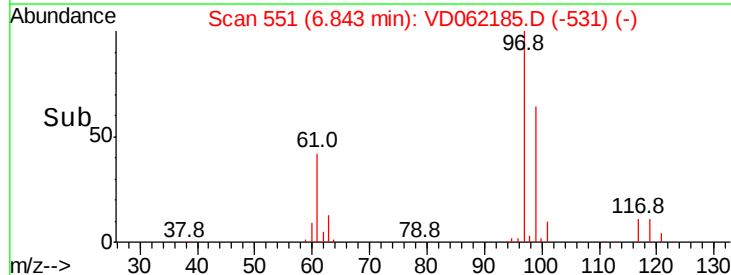
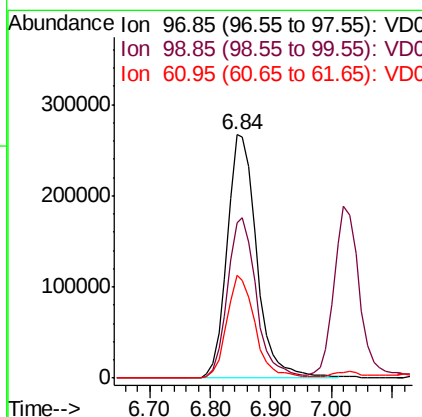
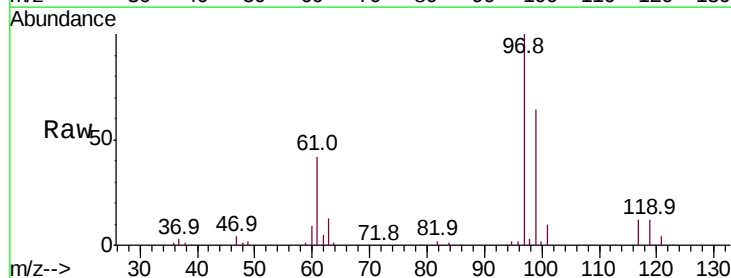
Manual Integrations
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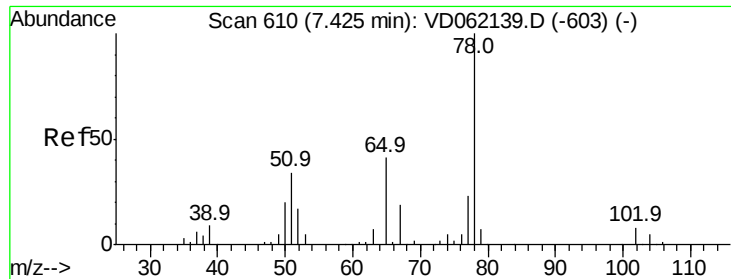
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#32
1,1,1-Trichloroethane
Concen: 58.220 ug/l
RT: 6.84 min Scan# 551
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.2	78.2
61	42.4	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 50.764 ug/l

RT: 7.43 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 452060

Ion Ratio Lower Upper

65 100

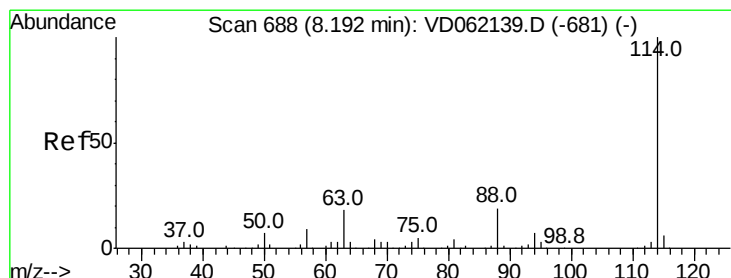
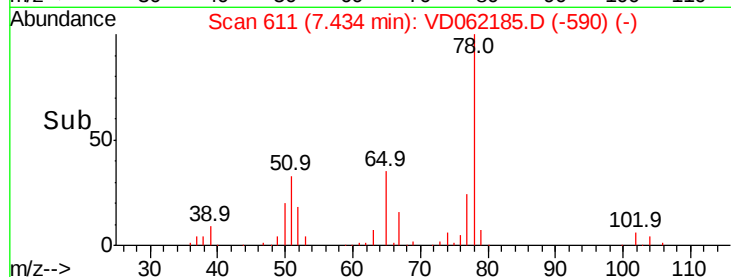
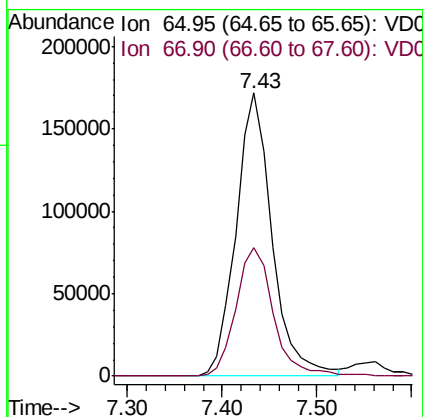
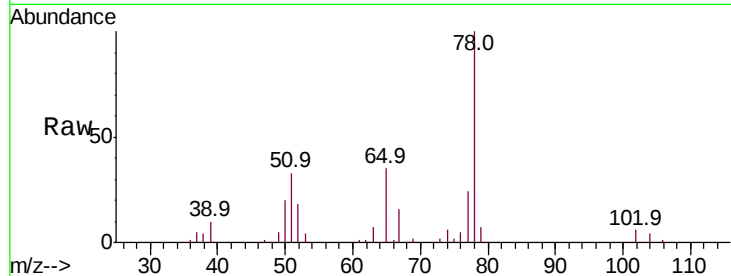
67 45.4 0.0 98.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

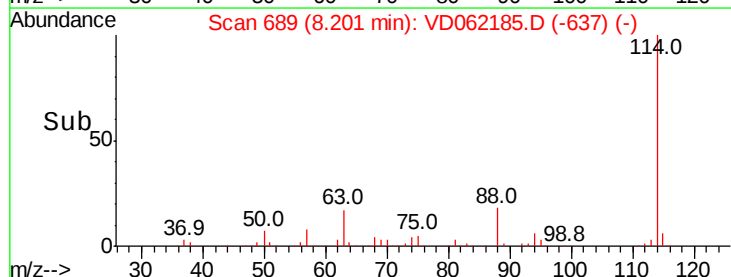
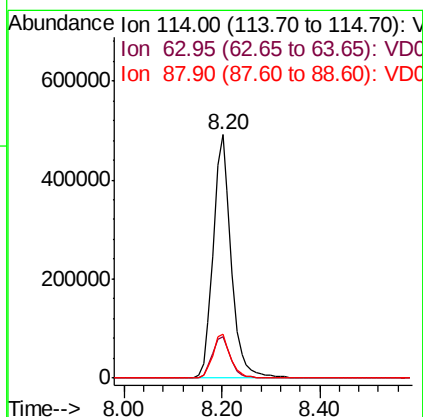
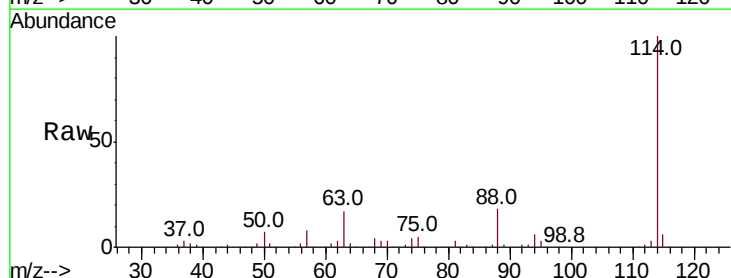
Tgt Ion: 114 Resp: 1261923

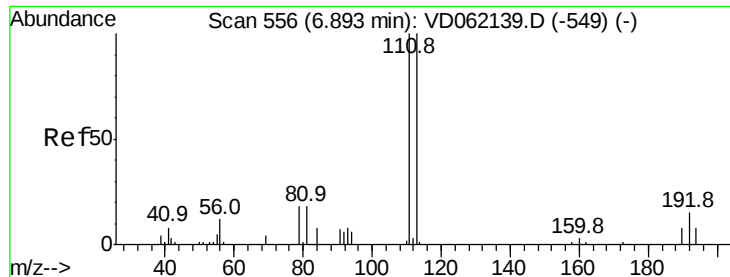
Ion Ratio Lower Upper

114 100

63 17.0 0.0 32.4

88 17.8 0.0 33.6





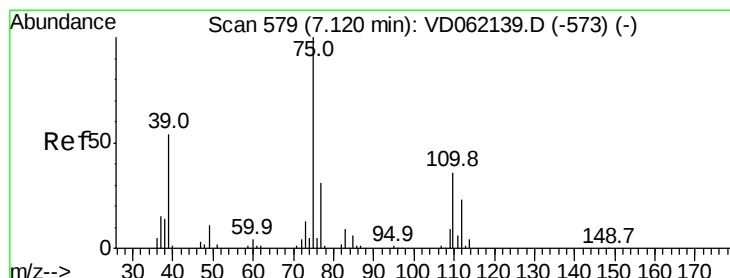
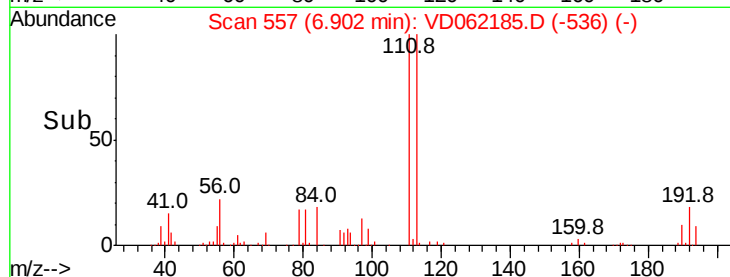
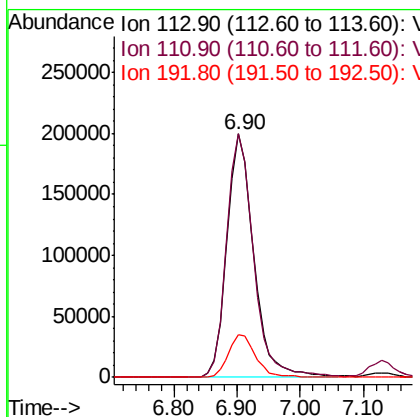
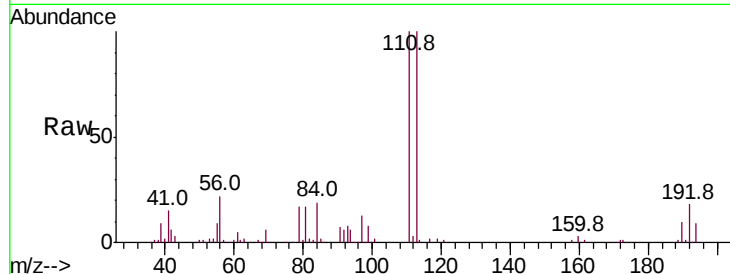
#35
 Dibromofluoromethane
 Concen: 56.210 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	100.1	78.5	117.7	
192	17.6	13.0	19.4	

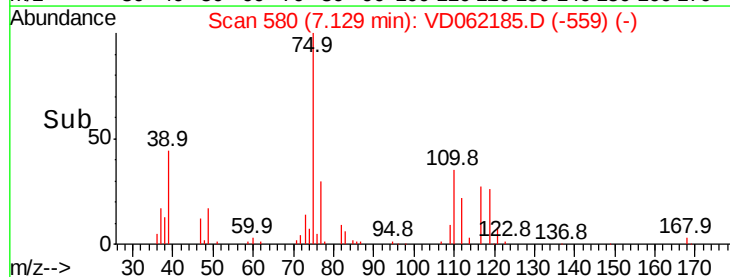
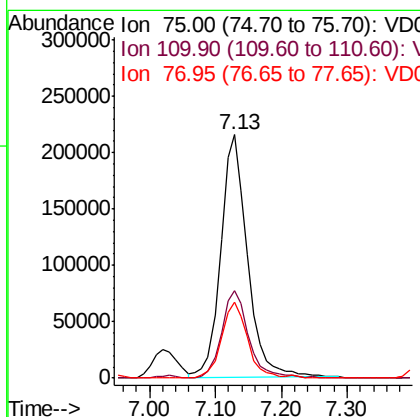
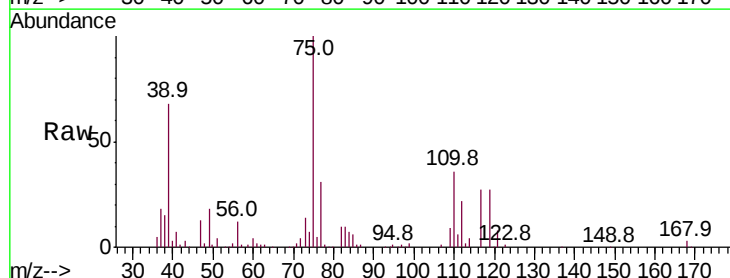
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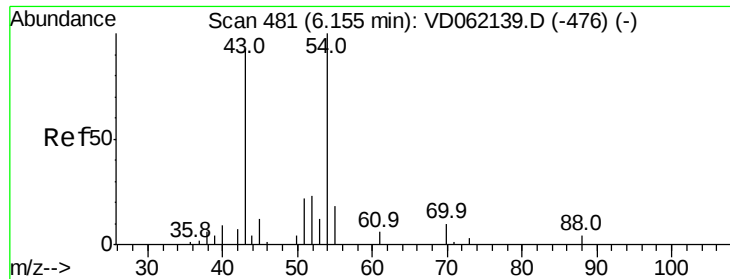
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#36
 1,1-Dichloropropene
 Concen: 58.818 ug/l
 RT: 7.13 min Scan# 580
 Delta R.T. 0.01 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.9	19.1	57.1	
77	31.4	25.6	38.4	





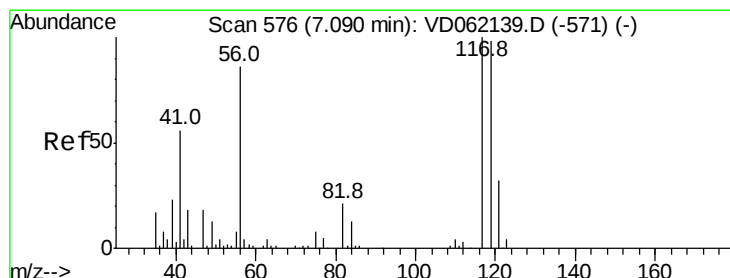
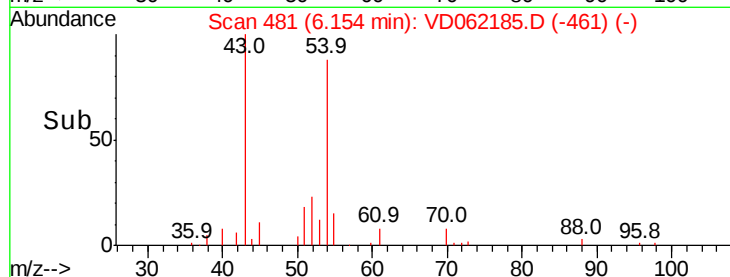
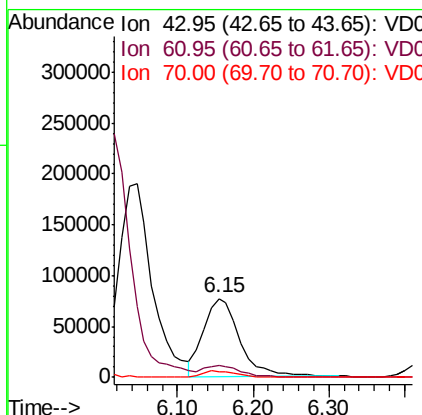
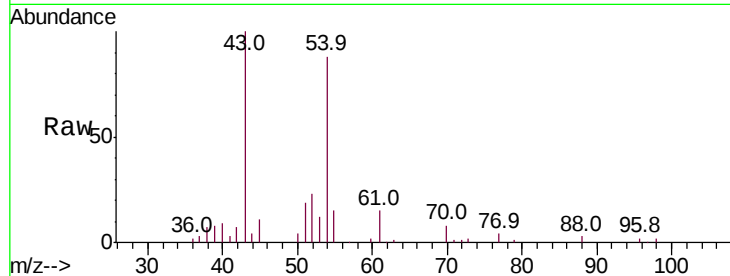
#37
Ethyl Acetate
Concen: 57.792 ug/l
RT: 6.15 min Scan# 481
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 253583
Ion Ratio Lower Upper
43 100
61 15.3 14.7 22.1
70 7.7 7.8 11.6#

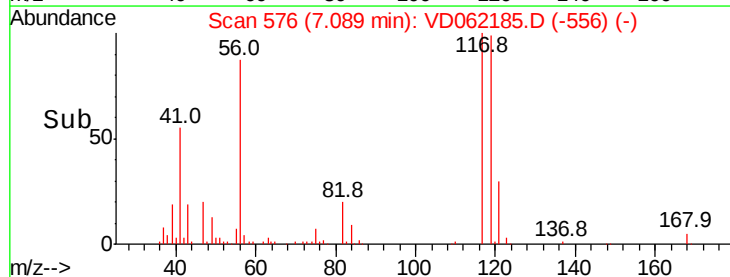
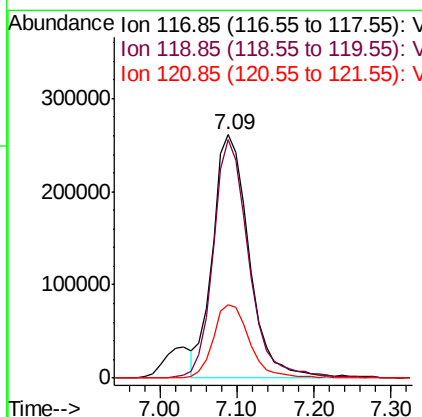
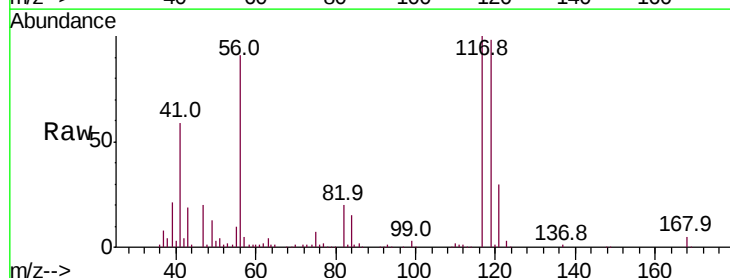
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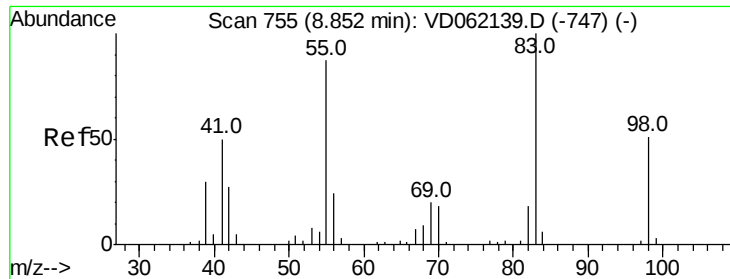
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#38
Carbon Tetrachloride
Concen: 60.465 ug/l m
RT: 7.09 min Scan# 576
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 117 Resp: 865893
Ion Ratio Lower Upper
117 100
119 98.1 75.8 113.8
121 30.2 25.9 38.9





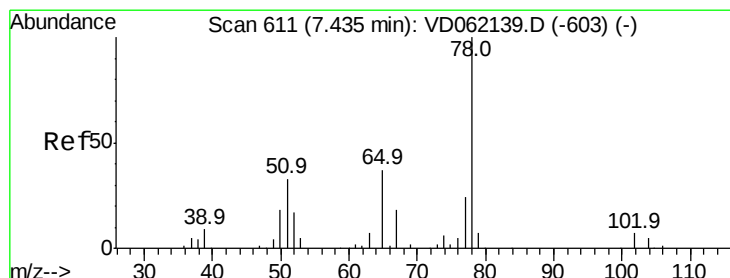
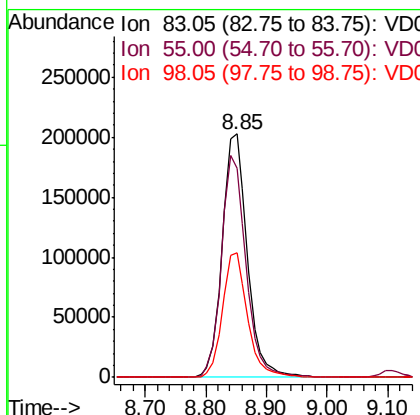
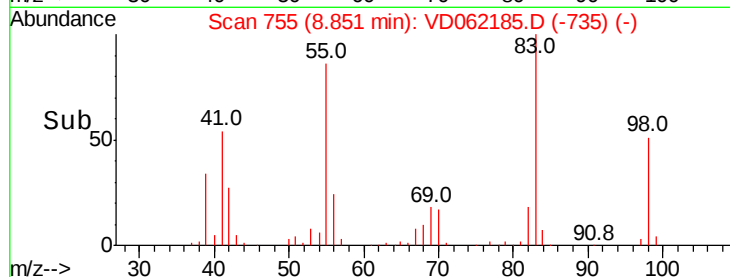
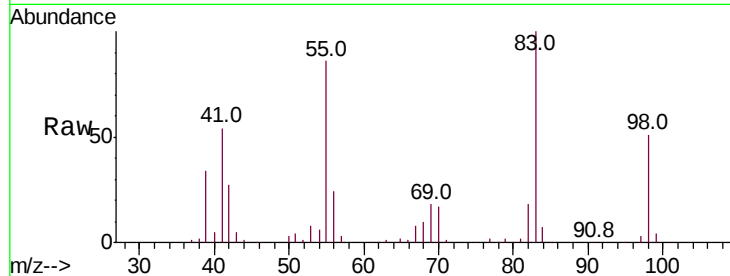
#39
Methvlcvclohexane
Concen: 58.967 ug/l
RT: 8.85 min Scan# 755
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	68.2	102.4
98	51.2	38.2	57.4

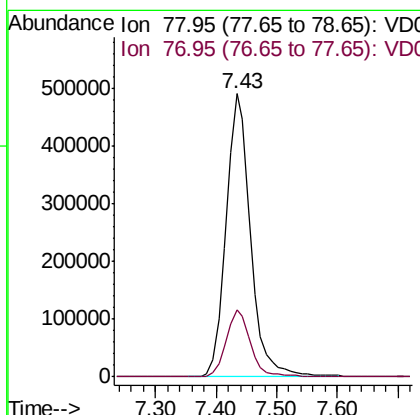
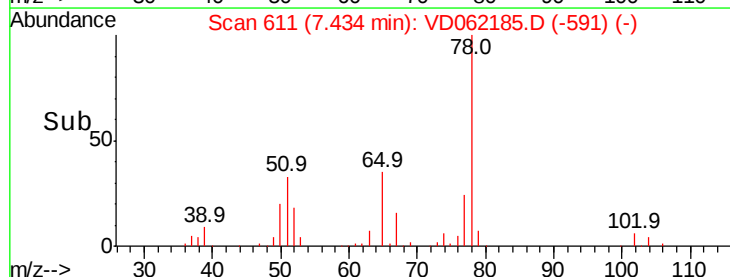
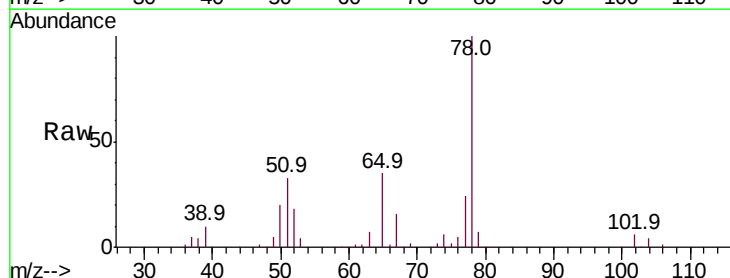
Manual Integrations
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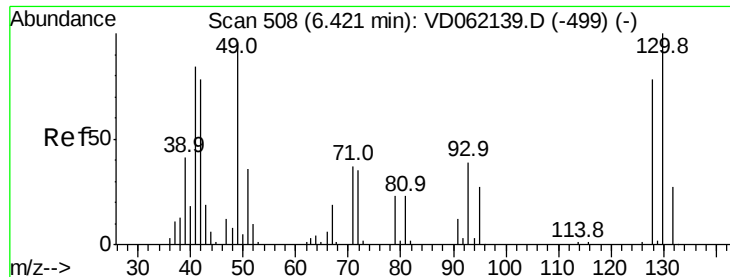
MMDadoda
5/10/2019 11:54:13 AM



#40
Benzene
Concen: 58.867 ug/l
RT: 7.43 min Scan# 611
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.7	29.5





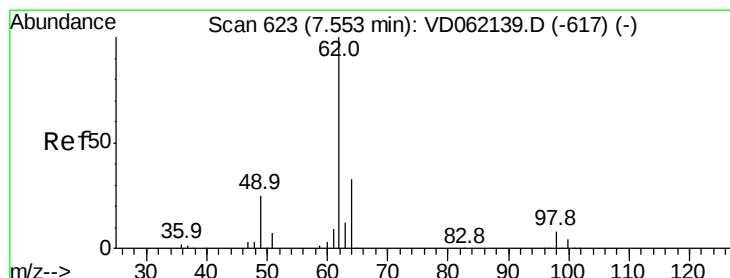
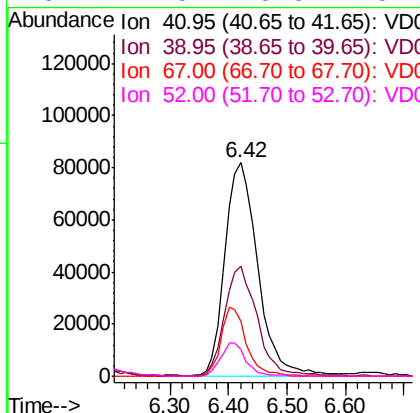
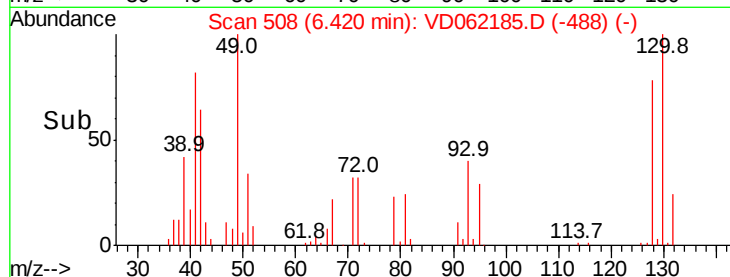
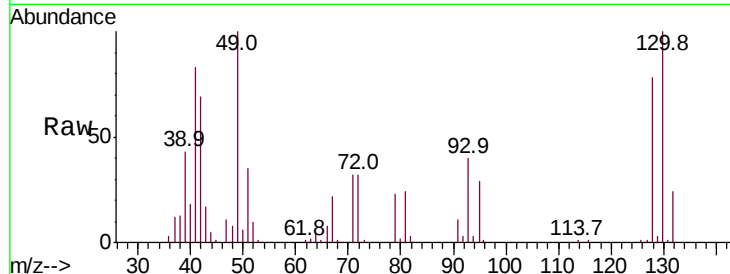
#41
Methacrylonitrile
Concen: 60.152 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.6	34.1	51.1#
67	25.8	23.8	35.6
52	12.5	8.8	13.2

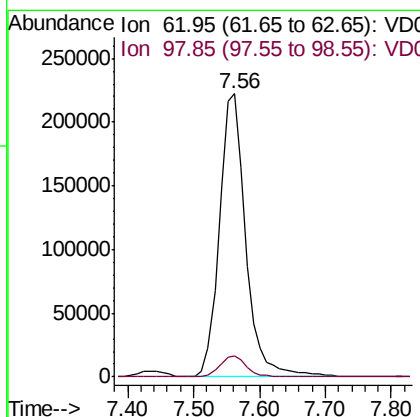
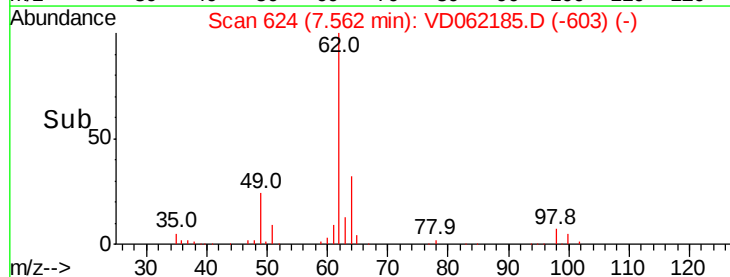
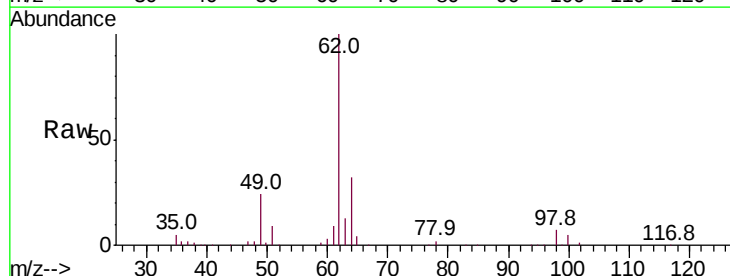
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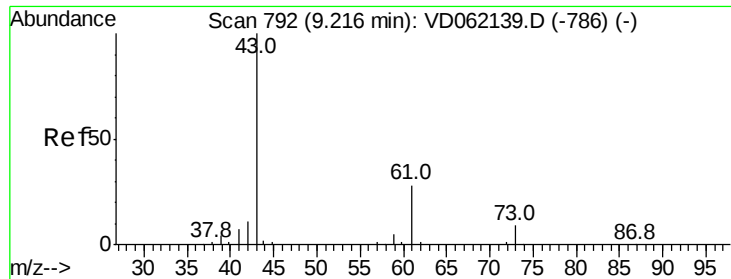
MMDadoda
5/10/2019 11:54:13 AM



#42
1,2-Dichloroethane
Concen: 62.554 ug/l
RT: 7.56 min Scan# 624
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	17.8





#43

Isopropyl Acetate

Concen: 57.173 ug/l

RT: 9.21 min Scan# 792

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

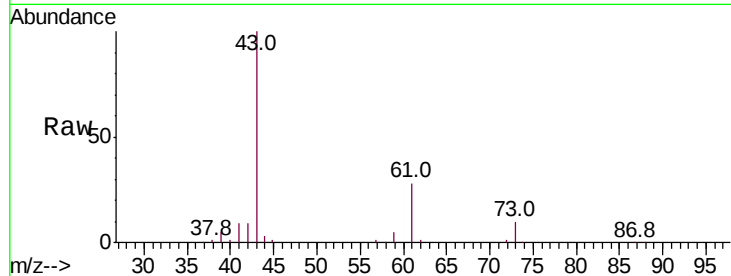
ClientSampleId :

VSTDCCC050

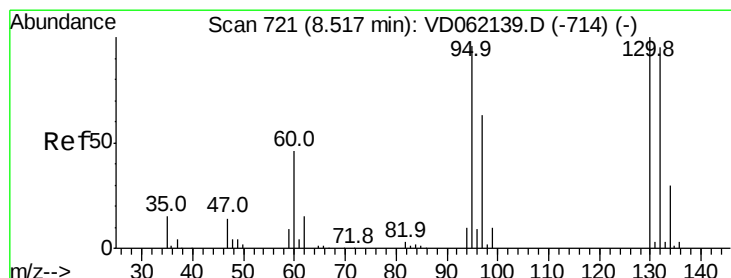
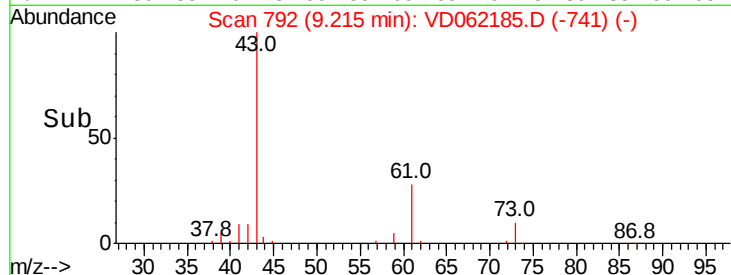
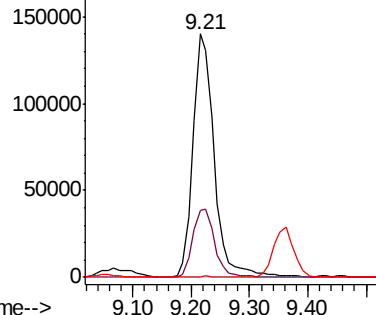
Tot Ion:	43	Resp:	355784
Ion	Ratio	Lower	Upper
43	100		
61	27.6	25.1	37.7
87	0.4	0.0	0.0#

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MMDadoda
5/10/2019 11:54:13 AM



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



#44

Trichloroethene

Concen: 59.760 ug/l

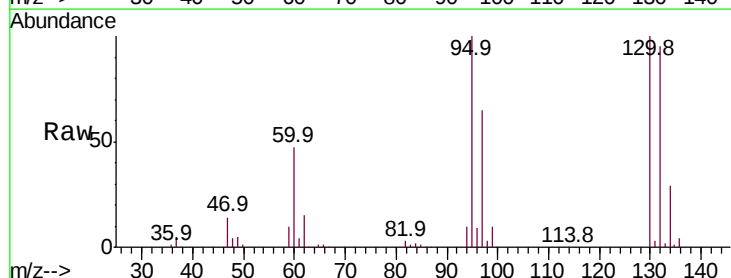
RT: 8.52 min Scan# 721

Delta R.T. -0.00 min

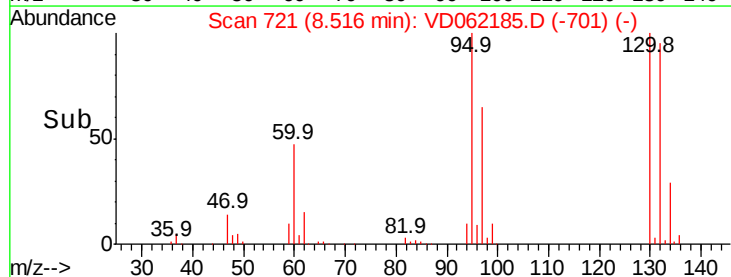
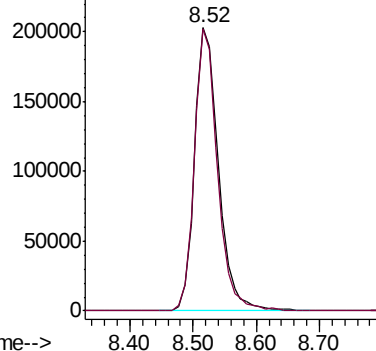
Lab File: VD062185.D

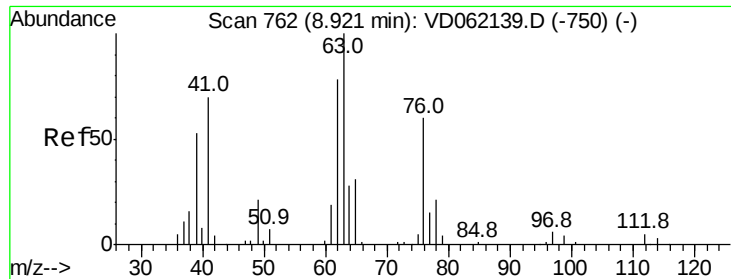
Acq: 9 May 2019 13:23

Tgt Ion:	130	Resp:	532037
Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	174.0



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





#45

1,2-Dichloropropane

Concen: 62.136 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 359085

Ion Ratio Lower Upper

63 100

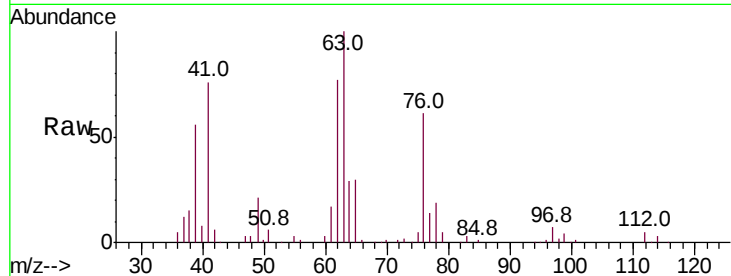
65 30.1 23.8 35.6

Manual Integrations

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MMDadoda

5/10/2019 11:54:13 AM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.92

150000

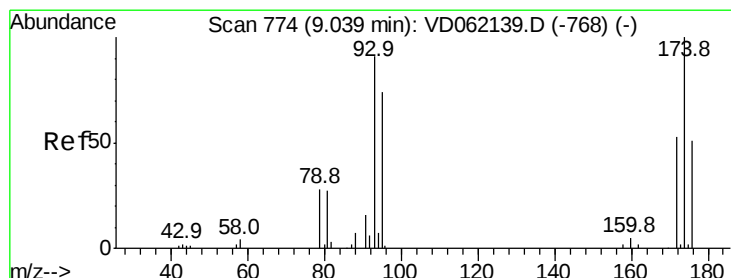
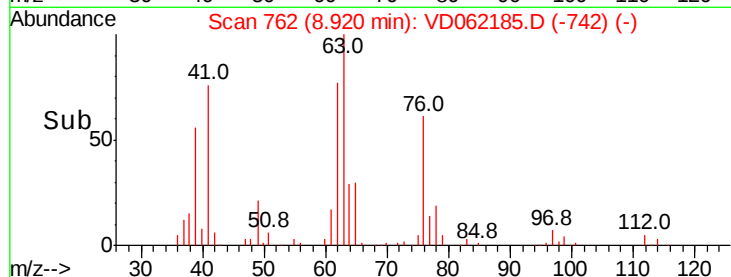
100000

50000

0

8.80 8.90 9.00 9.10

Time-->



#46

Dibromomethane

Concen: 58.197 ug/l

RT: 9.05 min Scan# 775

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

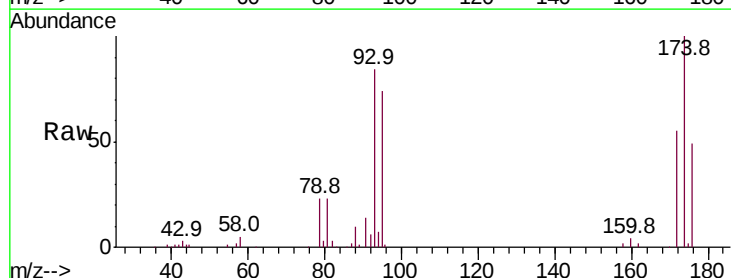
Tgt Ion: 93 Resp: 273492

Ion Ratio Lower Upper

93 100

95 88.5 64.8 97.2

174 119.1 79.3 118.9#



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

150000

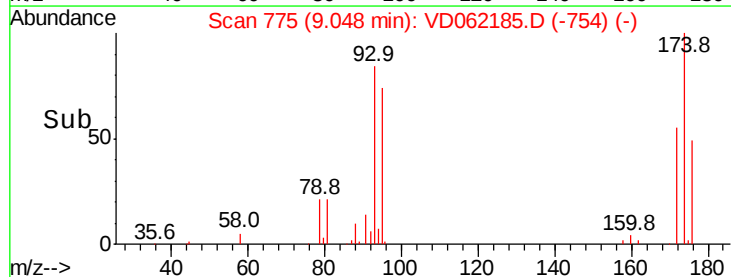
100000

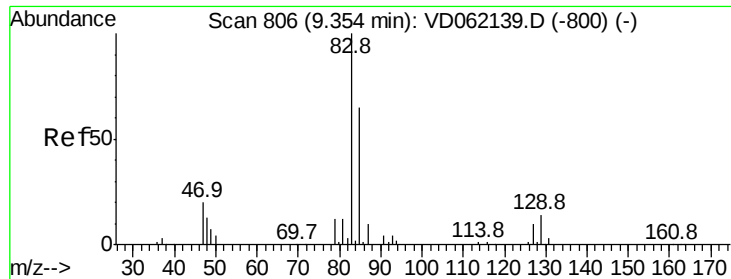
50000

0

8.90 9.00 9.10 9.20

Time-->





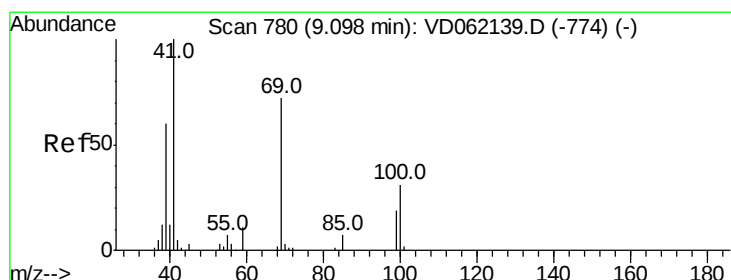
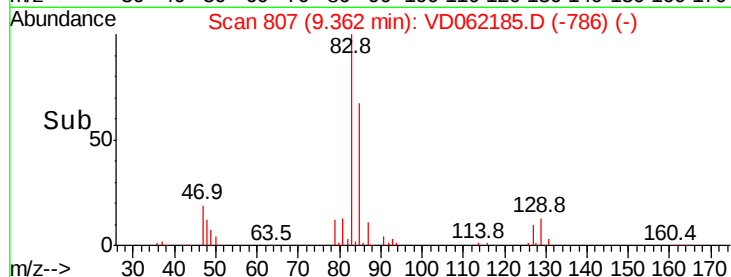
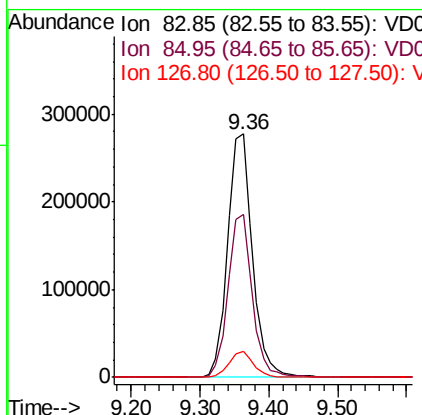
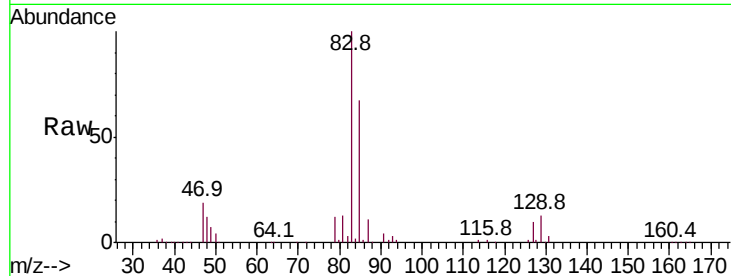
#47
Bromodichloromethane
Concen: 60.044 ug/l
RT: 9.36 min Scan# 807
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	690204		
85	66.8		50.9	76.3
127	10.5		8.1	12.1

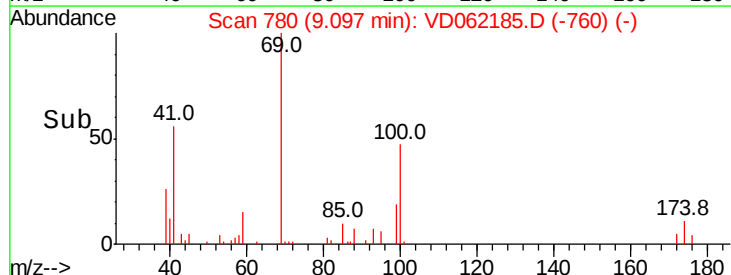
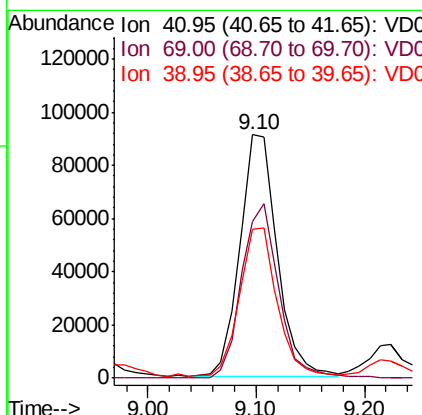
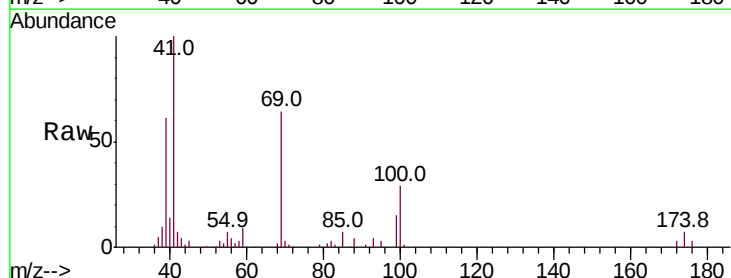
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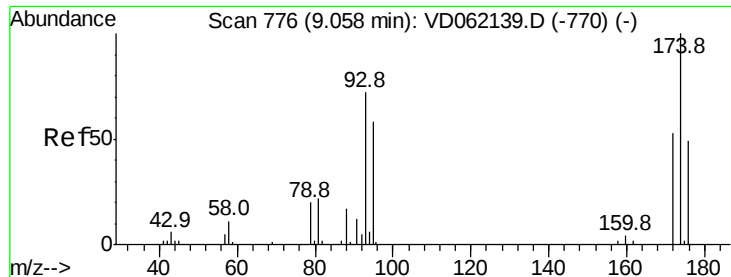
MMDadoda
5/10/2019 11:54:13 AM



#48
Methyl methacrylate
Concen: 57.079 ug/l
RT: 9.10 min Scan# 780
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	218789		
69	64.4		64.2	96.2
39	61.1		46.8	70.2





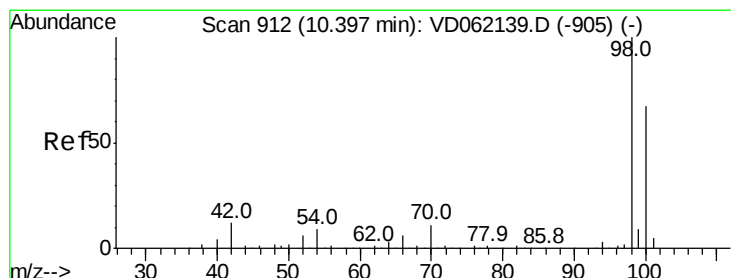
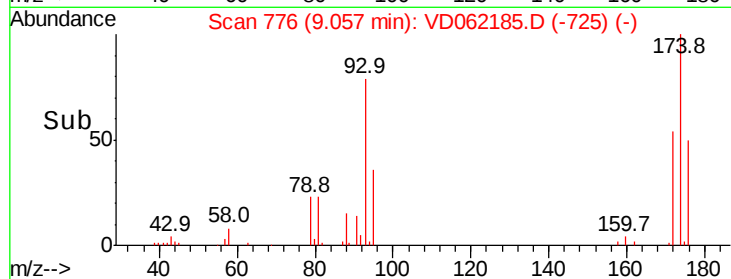
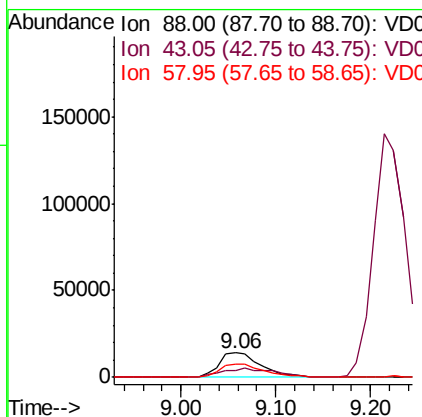
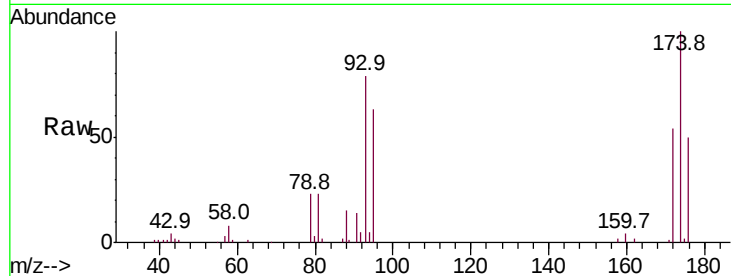
#49
1,4-Dioxane
Concen: 1058.224 ug/l
RT: 9.06 min Scan# 776
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.9	23.4	35.0
58	55.4	44.0	66.0

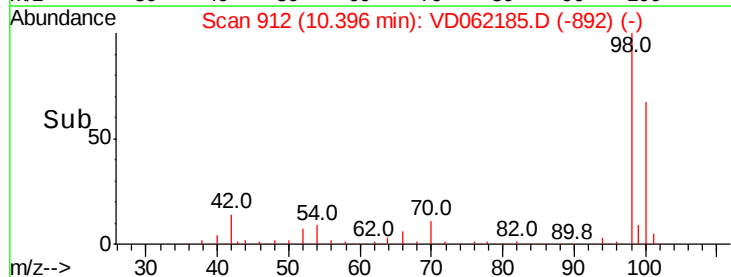
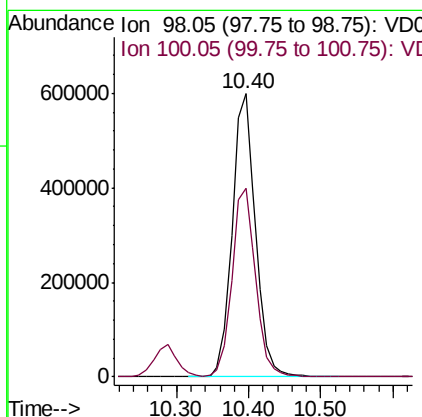
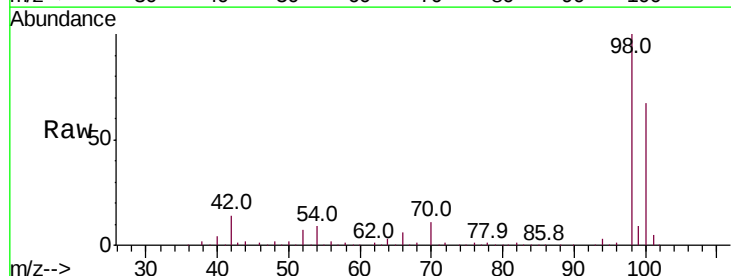
Manual Integrations
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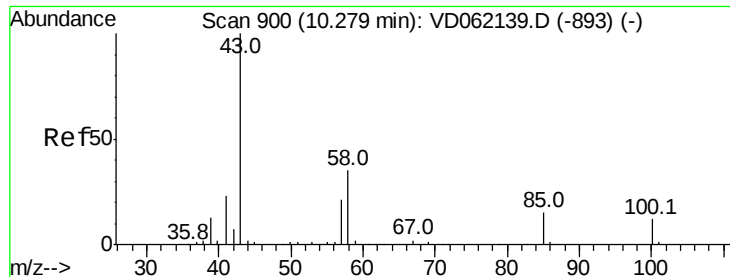
MMDadoda
5/10/2019 11:54:13 AM



#50
Toluene-d8
Concen: 53.293 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 292.703 ug/l

RT: 10.29 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tot Ion: 43 Resp: 1170859

Ion Ratio Lower Upper

43 100

58 37.1 30.4 45.6

Instrument :

MSVOA_D

ClientSampleId :

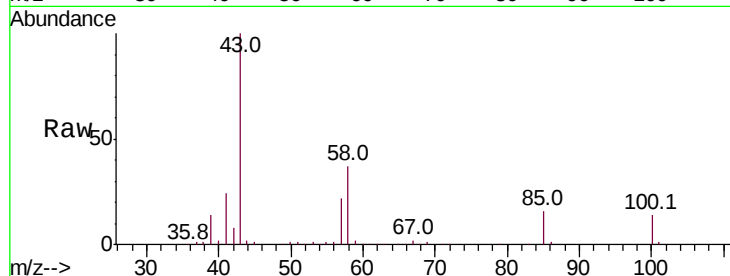
VSTDCCC050

Manual Integrations

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MMDadoda

5/10/2019 11:54:13 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

500000

400000

300000

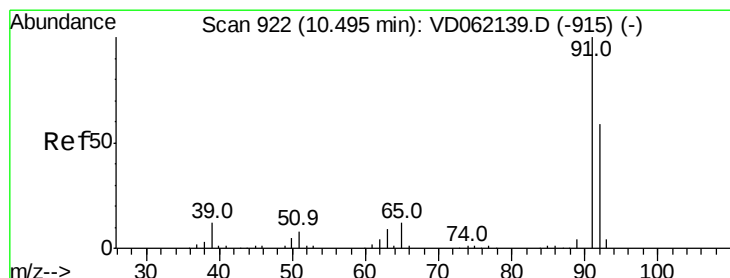
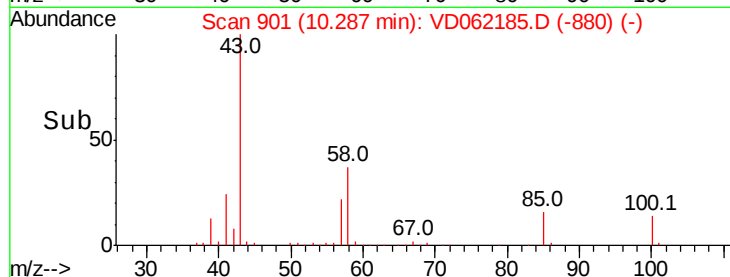
200000

100000

0

10.20 10.30 10.40

Time-->



#52

Toluene

Concen: 59.120 ug/l

RT: 10.49 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD062185.D

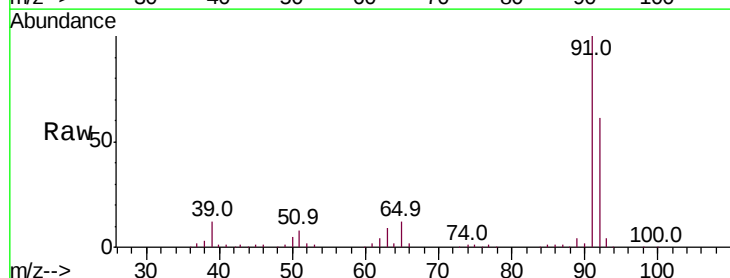
Acq: 9 May 2019 13:23

Tgt Ion: 92 Resp: 898711

Ion Ratio Lower Upper

92 100

91 163.6 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

800000

600000

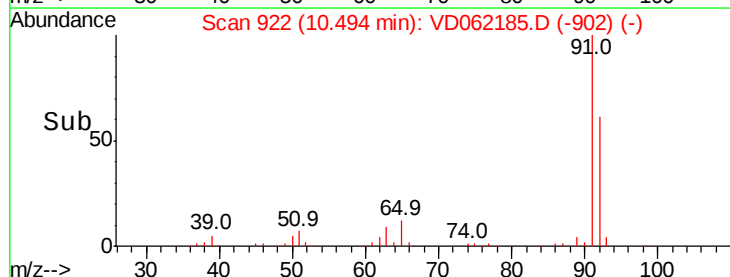
400000

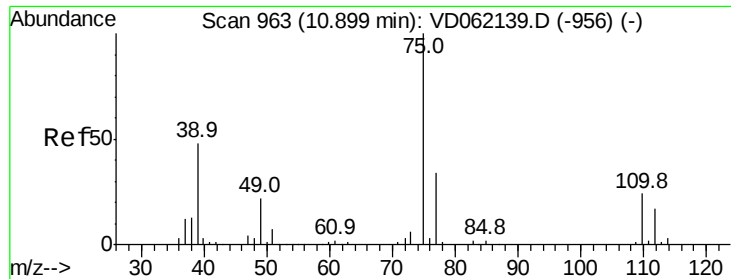
200000

0

10.40 10.50 10.60

Time-->





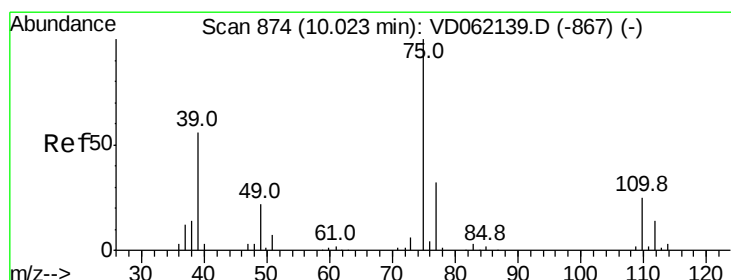
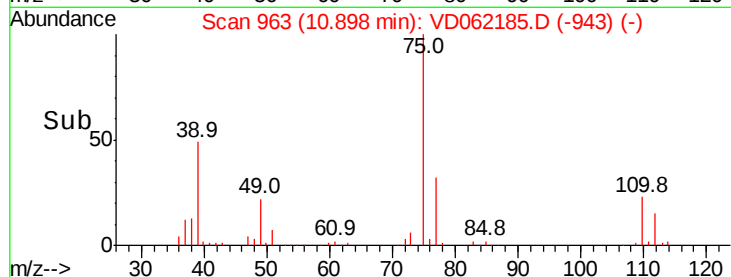
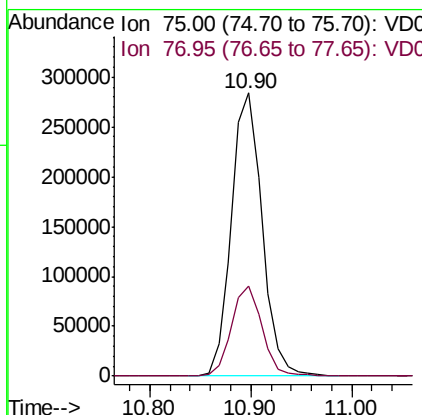
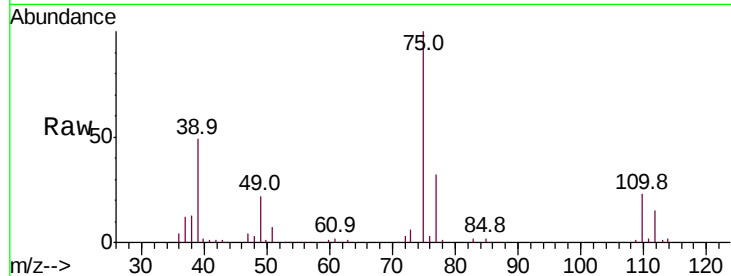
#53
 t-1,3-Dichloropropene
 Concen: 60.534 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 601399
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8

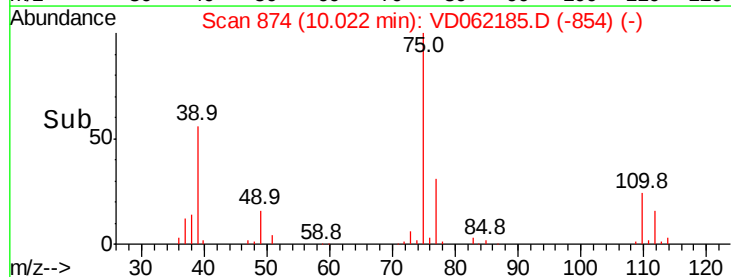
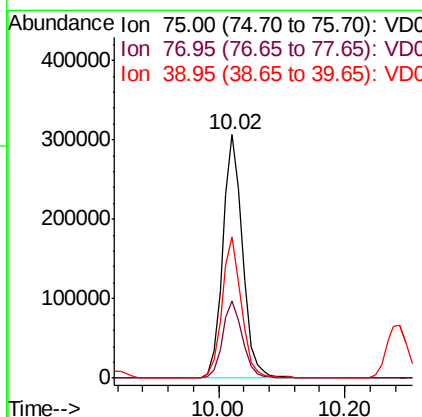
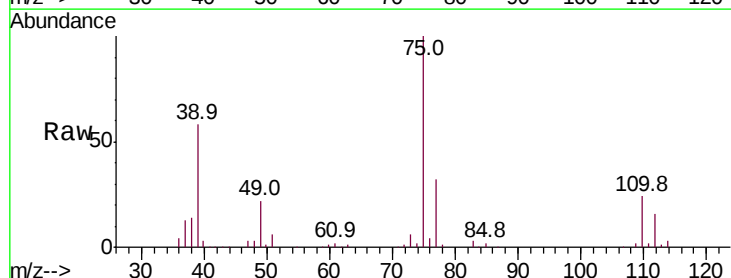
Manual Integrations
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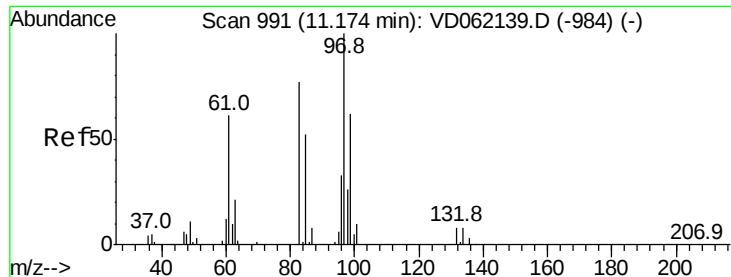
MMDadoda
 5/10/2019 11:54:13 AM



#54
 cis-1,3-Dichloropropene
 Concen: 61.408 ug/l
 RT: 10.02 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion: 75 Resp: 665554
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.5 38.3
 39 58.1 39.4 59.2





#55

1,1,2-Trichloroethane

Concen: 61.231 ug/l

RT: 11.17 min Scan# 991

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 329338

Ion Ratio Lower Upper

97 100

83 77.1 65.7 98.5

85 51.9 45.6 68.4

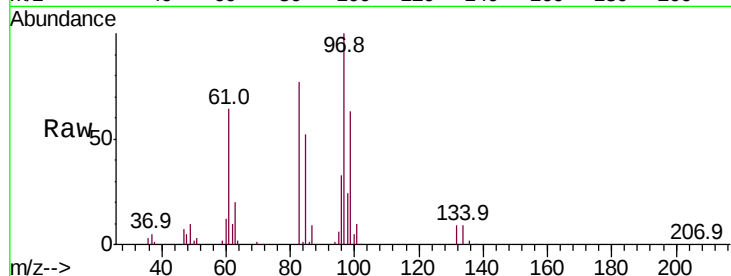
99 63.3 48.4 72.6

Manual Integrations

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MMDadoda

5/10/2019 11:54:13 AM

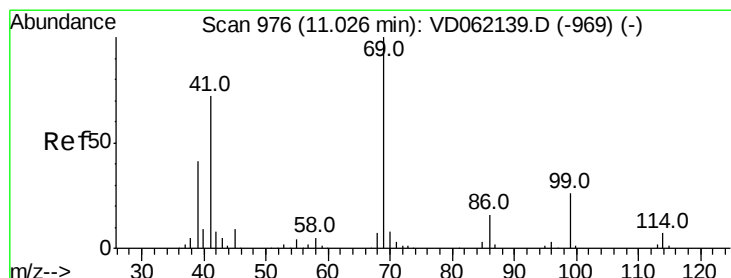
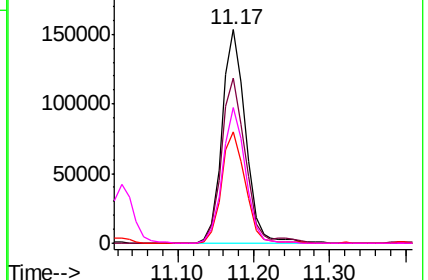
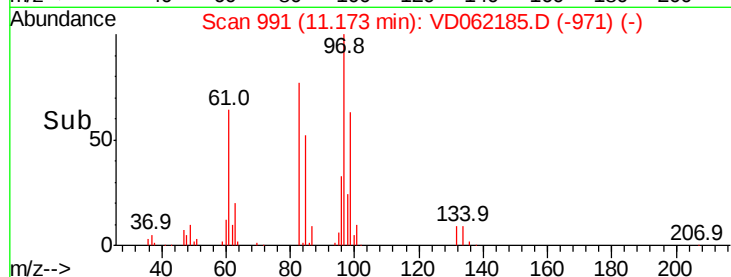


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 65.585 ug/l

RT: 11.03 min Scan# 976

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

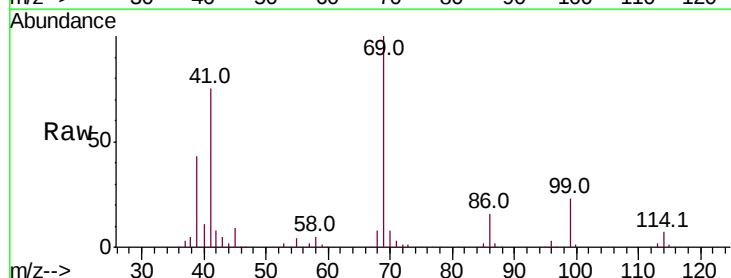
Tgt Ion: 69 Resp: 366568

Ion Ratio Lower Upper

69 100

41 74.6 56.3 84.5

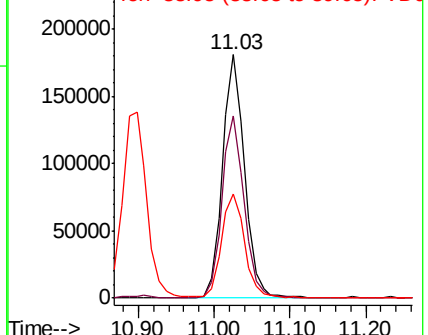
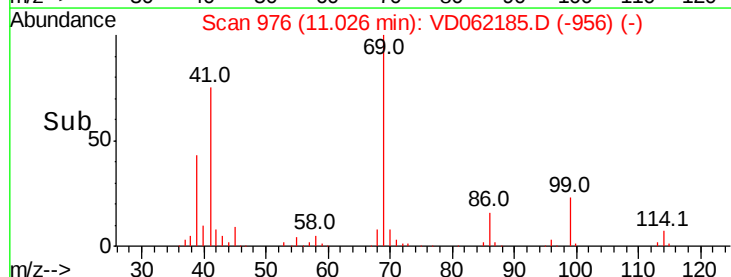
39 42.6 29.4 44.2

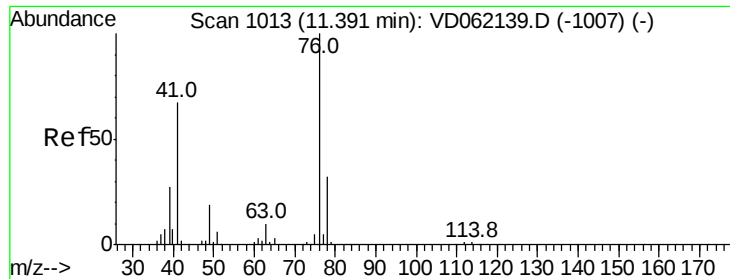


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





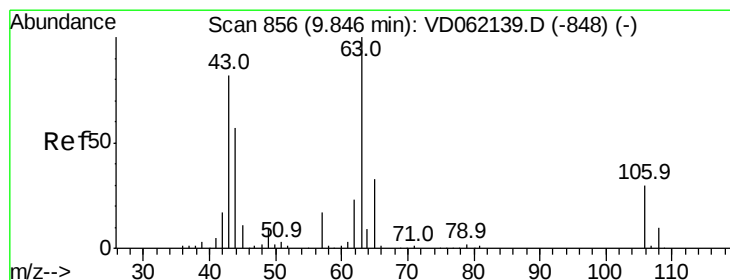
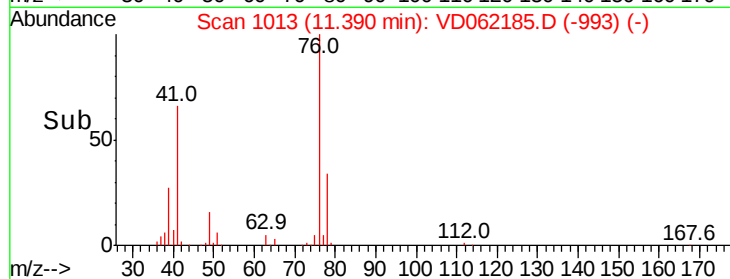
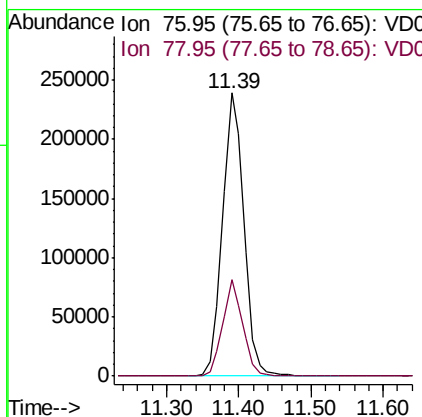
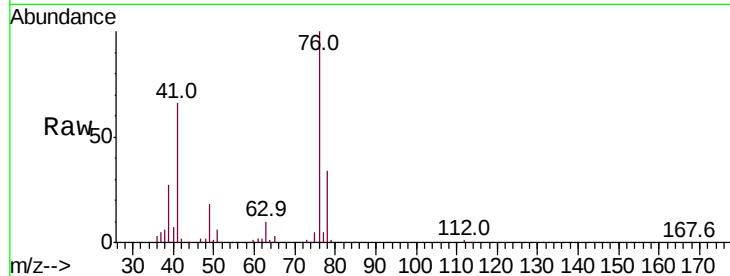
#57
 1,3-Dichloropropane
 Concen: 60.145 ug/l
 RT: 11.39 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion: 76 Resp: 488721
 Ion Ratio Lower Upper
 76 100
 78 34.1 26.2 39.2

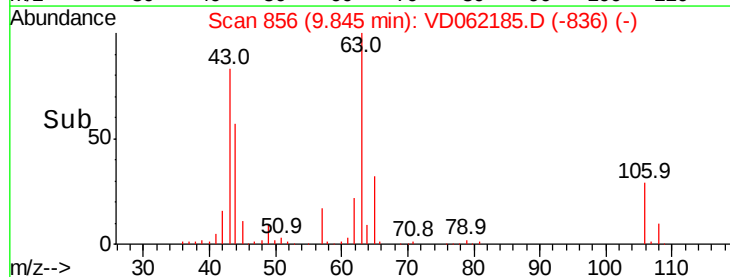
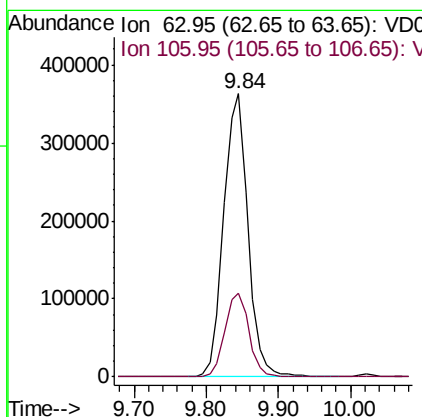
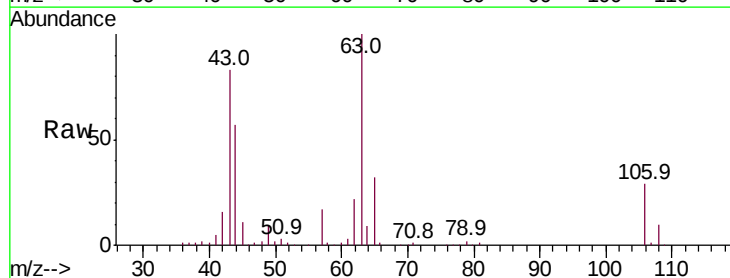
Manual Integrations
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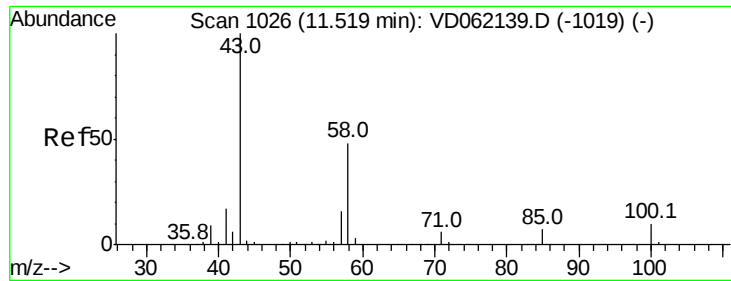
MMDadoda
 5/10/2019 11:54:13 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 276.622 ug/l
 RT: 9.84 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion: 63 Resp: 844529
 Ion Ratio Lower Upper
 63 100
 106 29.5 22.6 34.0





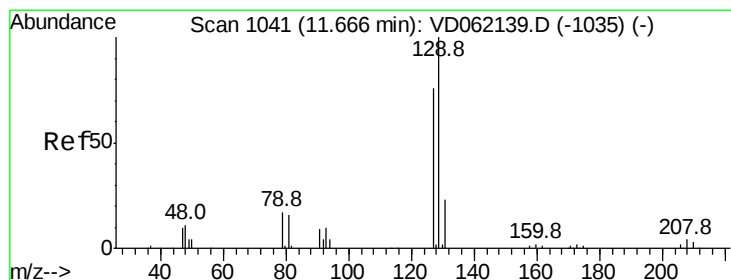
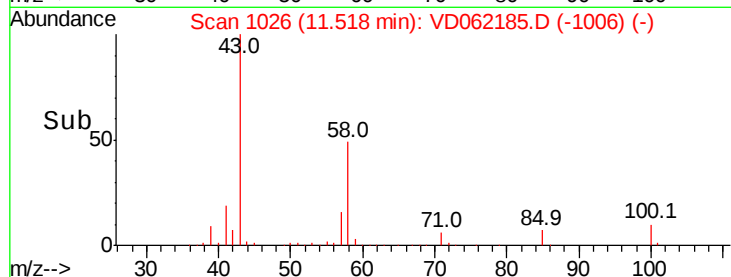
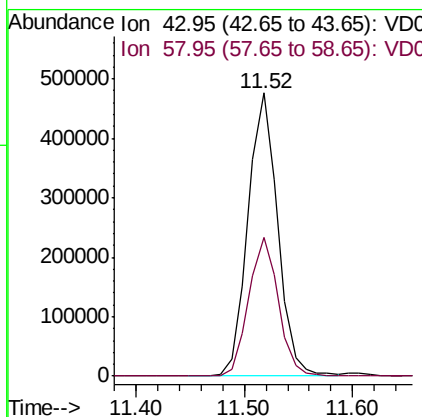
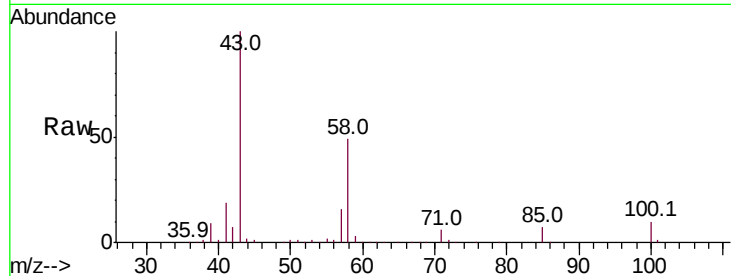
#59
2-Hexanone
Concen: 307.825 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 907552
Ion Ratio Lower Upper
43 100
58 49.1 25.4 76.4

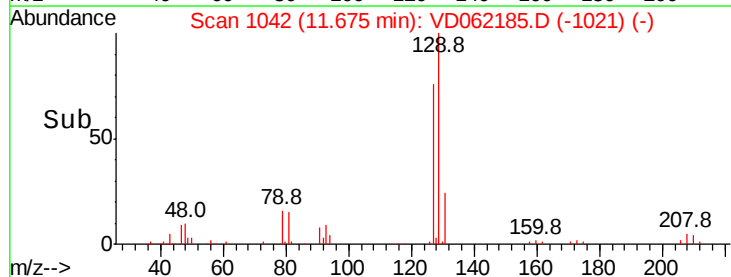
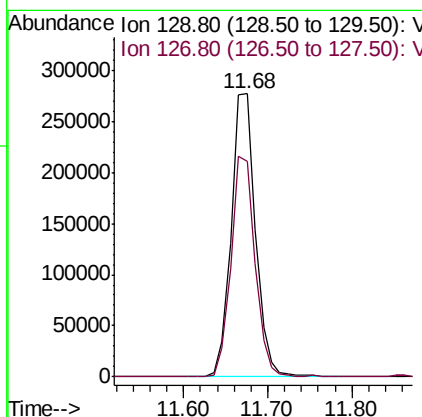
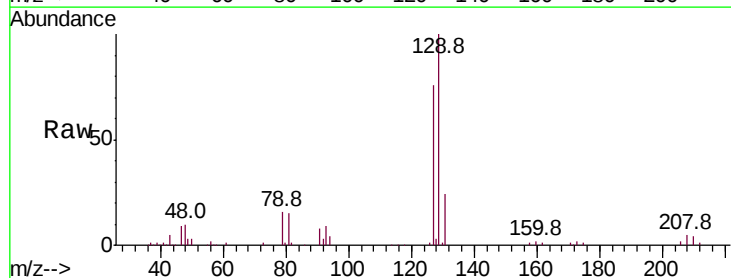
Manual Integrations
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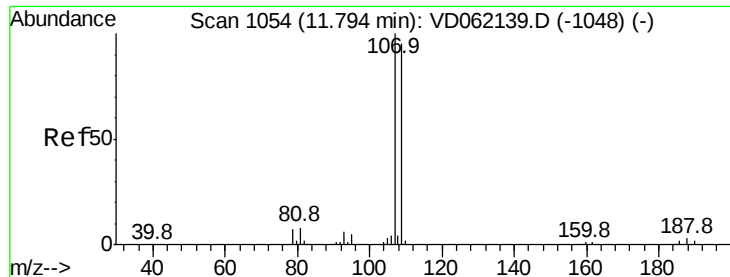
MMDadoda
5/10/2019 11:54:13 AM



#60
Dibromochloromethane
Concen: 59.717 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 129 Resp: 555089
Ion Ratio Lower Upper
129 100
127 75.9 38.0 113.9





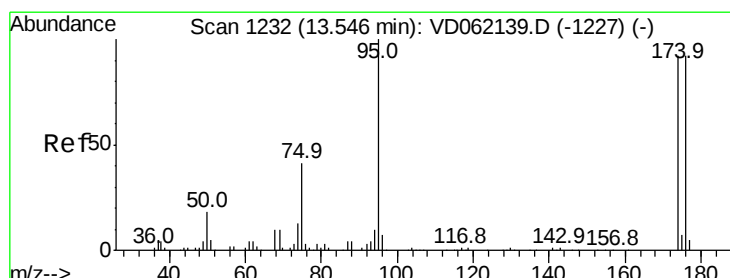
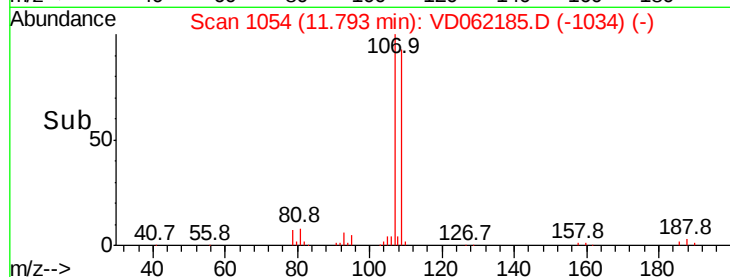
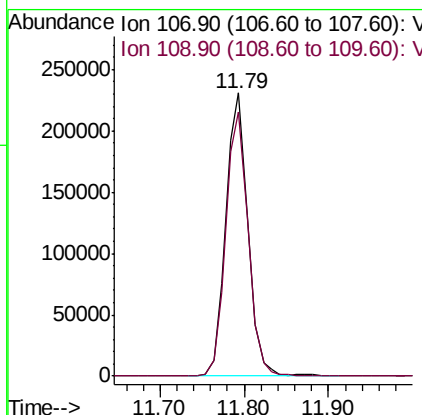
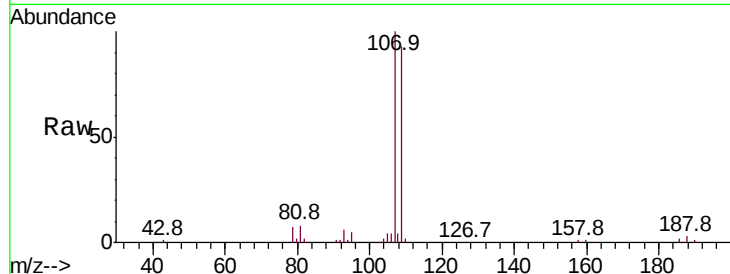
#61
 1,2-Dibromoethane
 Concen: 63.988 ug/l
 RT: 11.79 min Scan# 1054
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	78.3	117.5

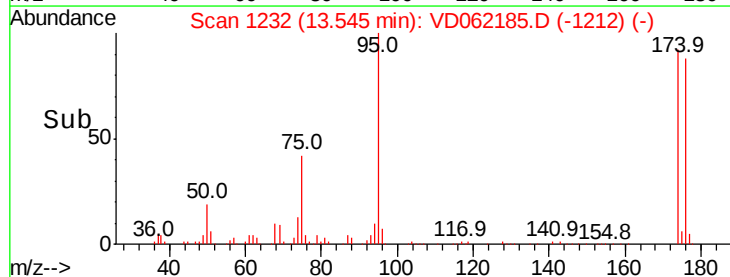
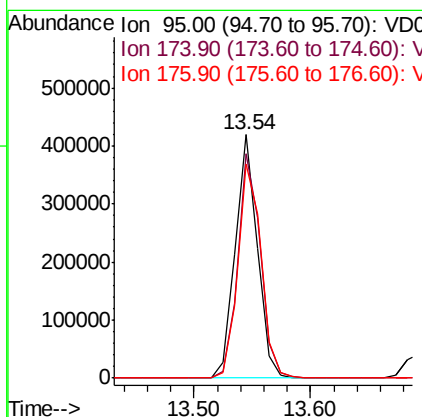
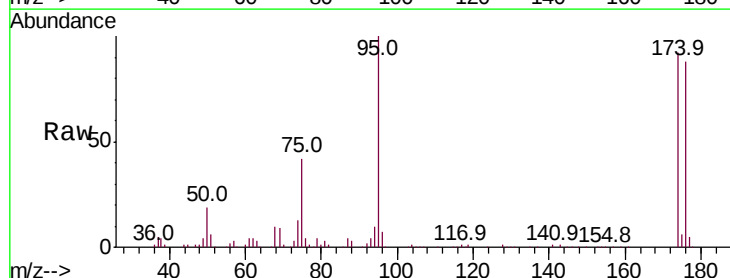
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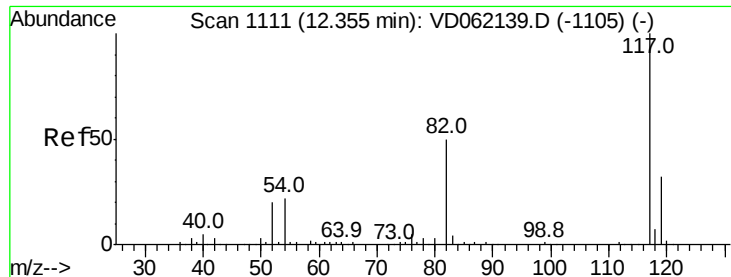
MMDadoda
 5/10/2019 11:54:13 AM



#62
 4-Bromofluorobenzene
 Concen: 54.201 ug/l
 RT: 13.54 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.4	0.0	181.8
176	88.0	0.0	174.4





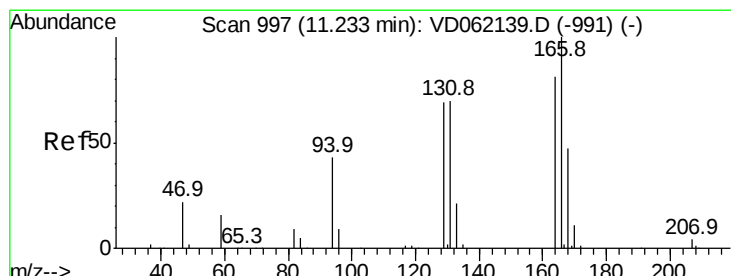
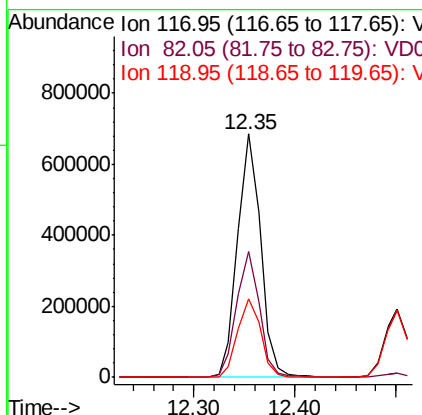
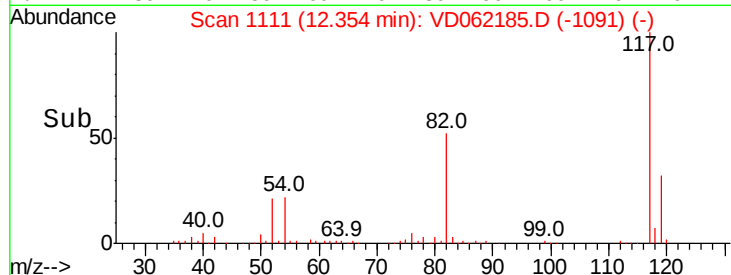
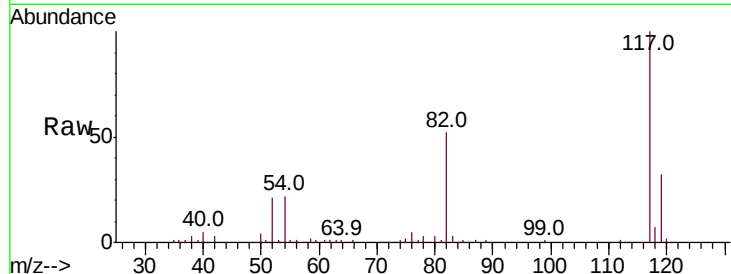
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1096256
Ion Ratio Lower Upper
117 100
82 51.6 36.2 54.2
119 32.4 26.2 39.4

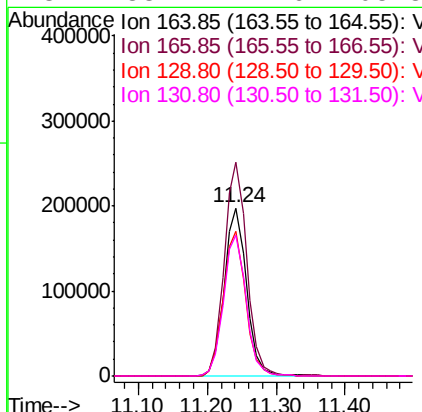
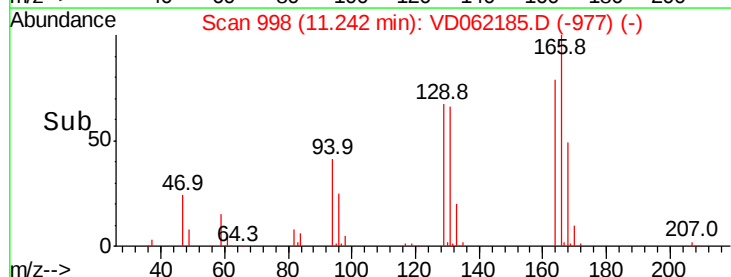
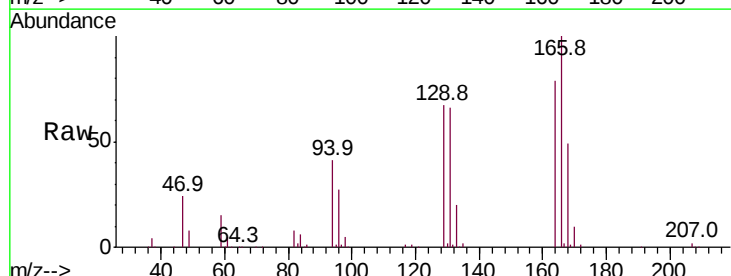
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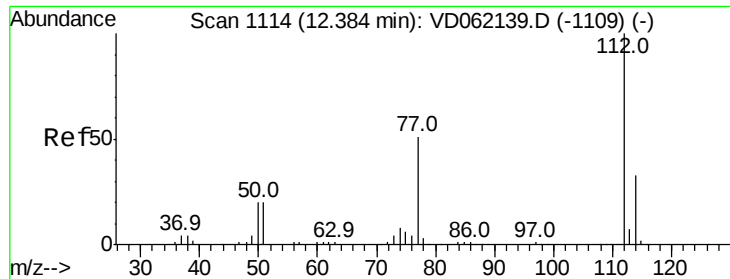
MMDadoda
5/10/2019 11:54:13 AM



#64
Tetrachloroethene
Concen: 51.540 ug/l
RT: 11.24 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion:164 Resp: 441813
Ion Ratio Lower Upper
164 100
166 127.3 101.5 152.3
129 85.9 74.6 112.0
131 83.7 72.6 108.8





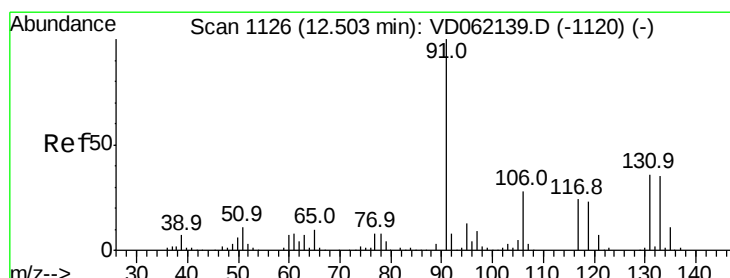
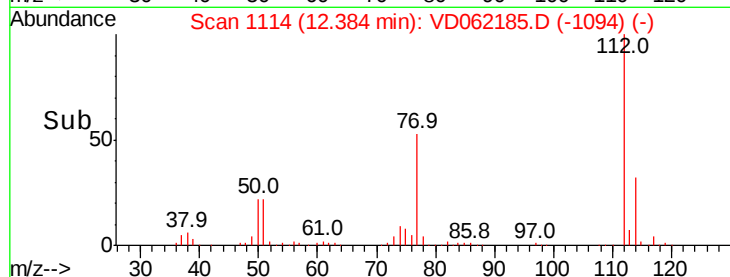
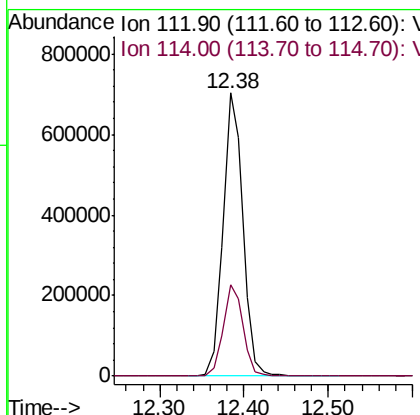
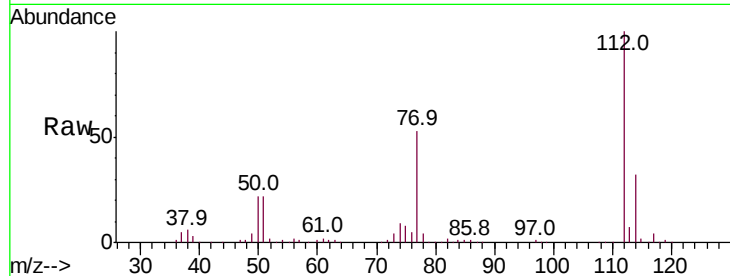
#65
Chlorobenzene
Concen: 56.013 ug/l
RT: 12.38 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1143677
Ion Ratio Lower Upper
112 100
114 32.1 25.8 38.8

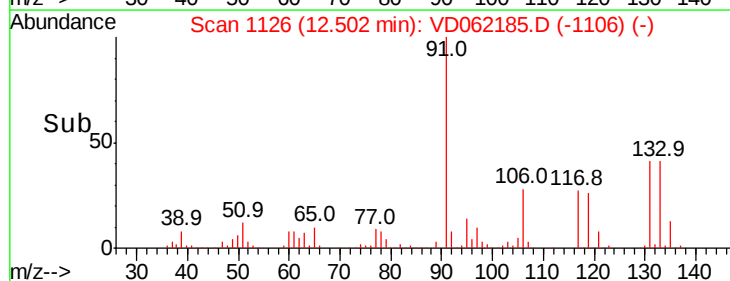
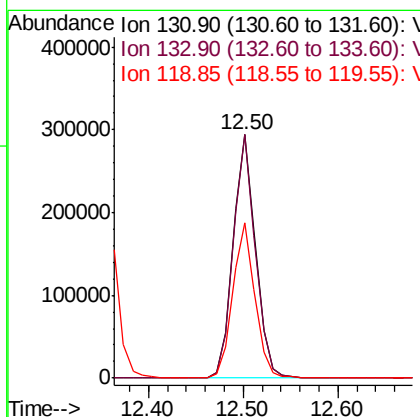
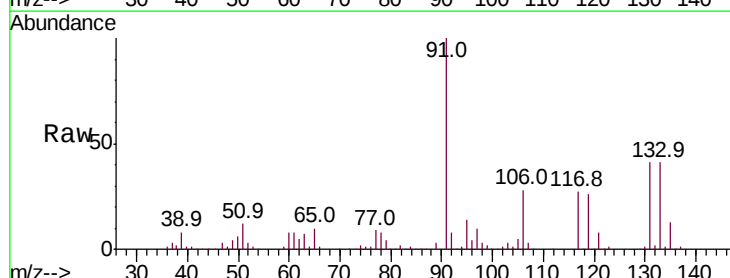
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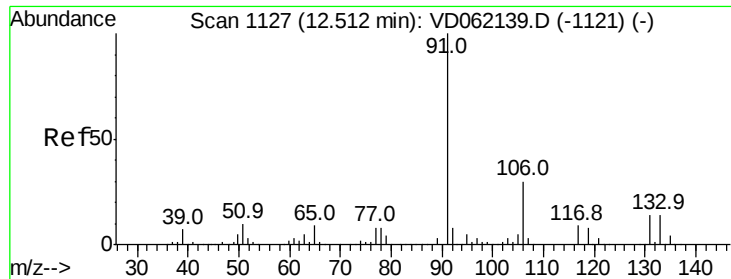
MMDadoda
5/10/2019 11:54:13 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 54.244 ug/l
RT: 12.50 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion:131 Resp: 482023
Ion Ratio Lower Upper
131 100
133 99.9 48.6 145.8
119 63.7 34.7 104.1





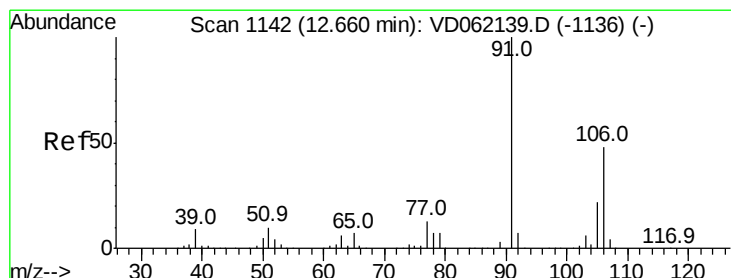
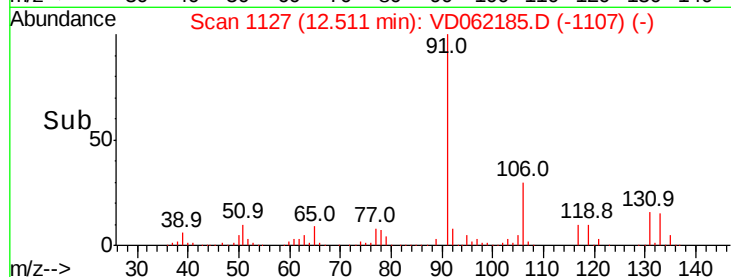
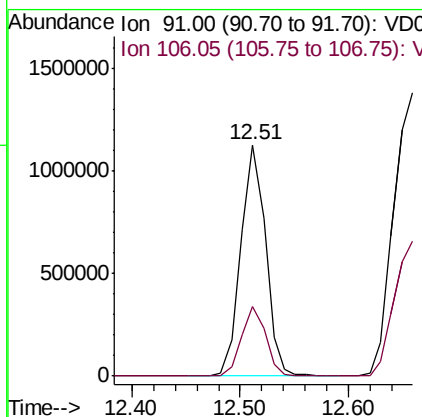
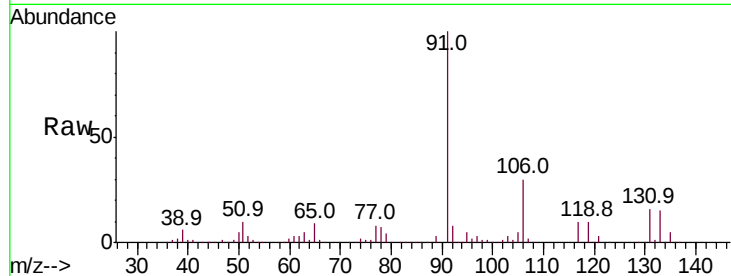
#67
Ethyl Benzene
Concen: 52.904 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1808412
Ion Ratio Lower Upper
91 100
106 30.0 24.7 37.1

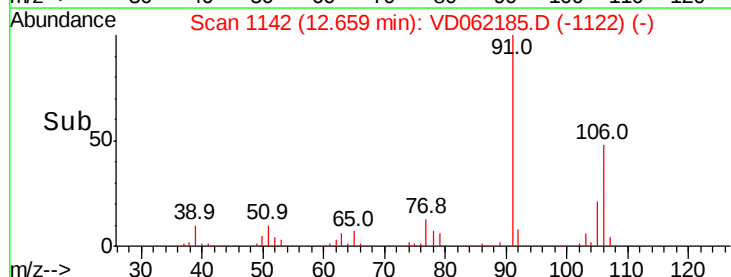
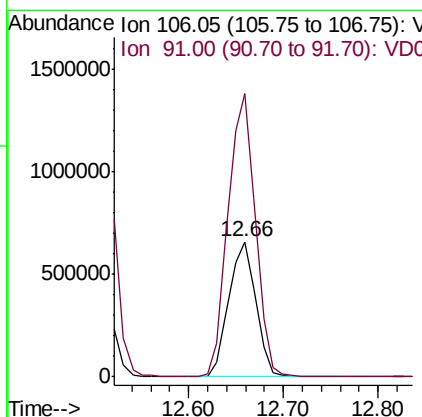
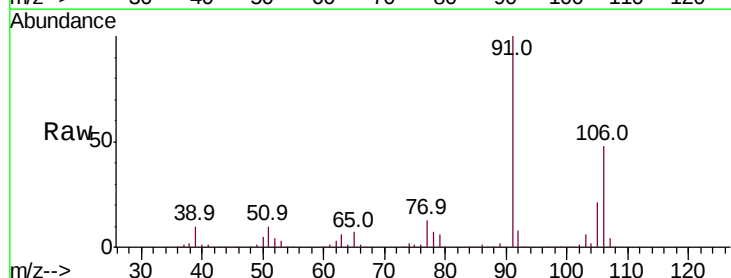
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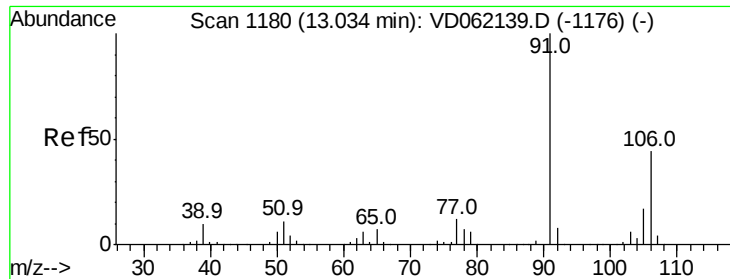
MMDadoda
5/10/2019 11:54:13 AM



#68
m/p-Xylenes
Concen: 105.131 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 106 Resp: 1307473
Ion Ratio Lower Upper
106 100
91 209.6 164.0 246.0





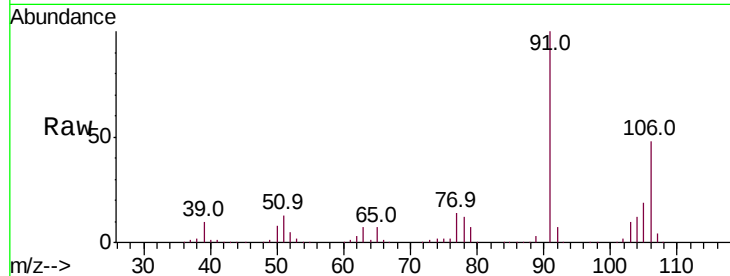
#69
o-Xylene
Concen: 55.495 ug/l
RT: 13.04 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

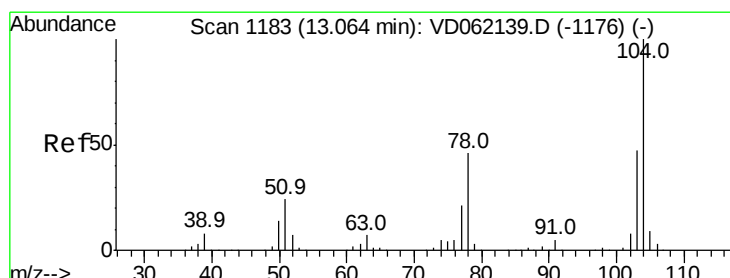
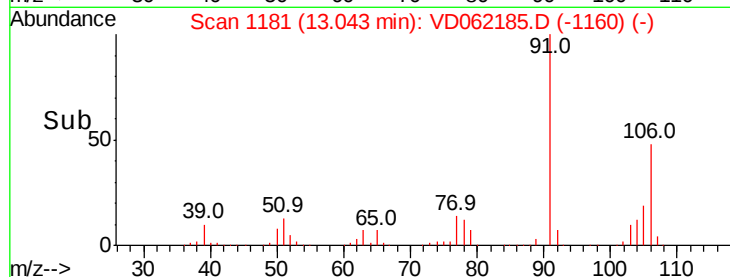
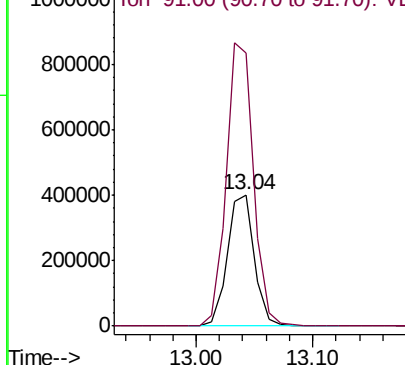
Tot Ion:106 Resp: 641638
Ion Ratio Lower Upper
106 100
91 207.9 106.7 319.9

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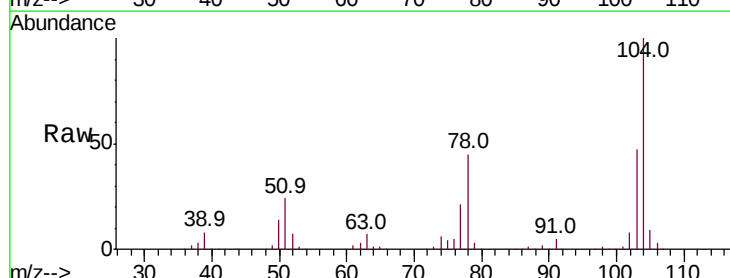


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

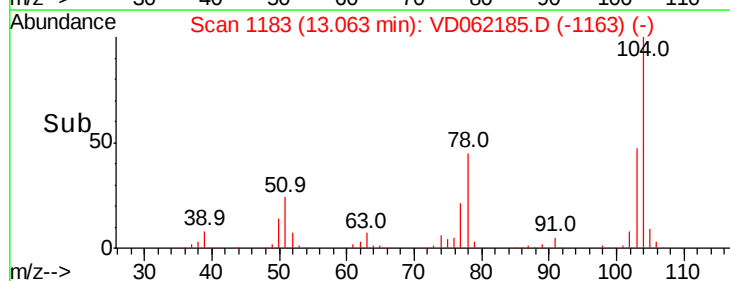
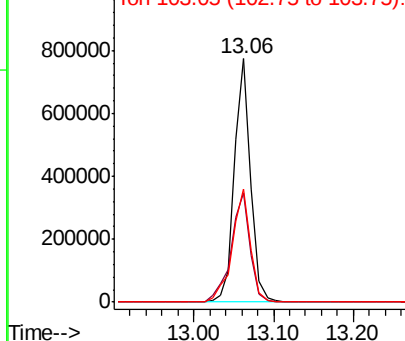


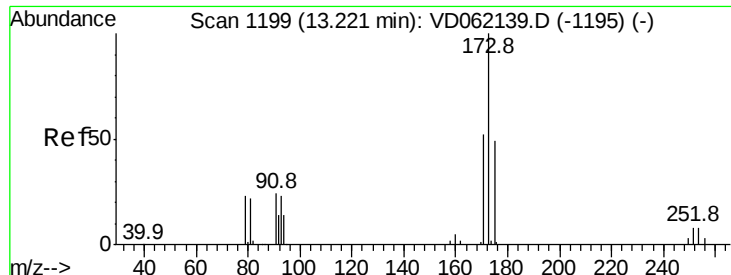
#70
Styrene
Concen: 56.389 ug/l
RT: 13.06 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion:104 Resp: 1104463
Ion Ratio Lower Upper
104 100
78 45.0 35.4 53.2
103 46.5 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: 55.637 ug/l

RT: 13.22 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 343976

Ion Ratio Lower Upper

173 100

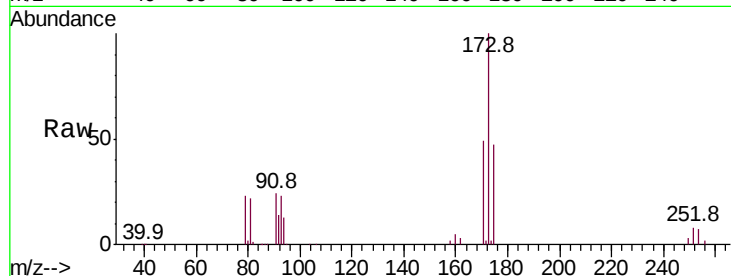
175 47.1 24.4 73.4

254 7.4 5.4 8.2

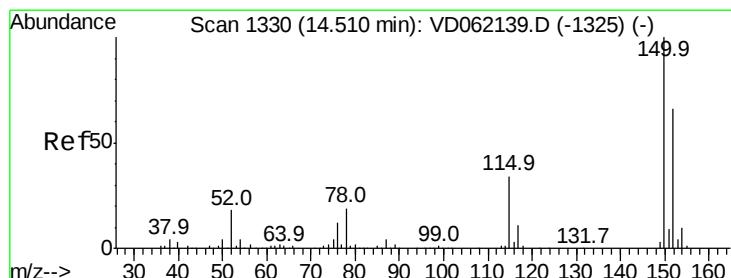
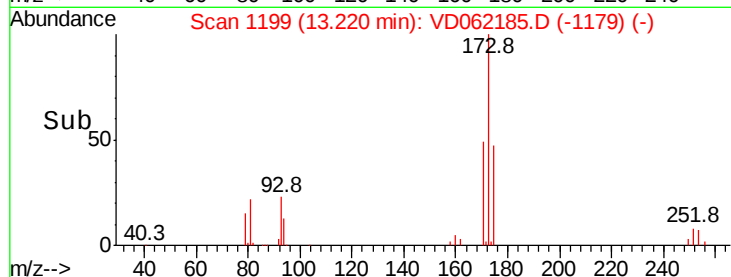
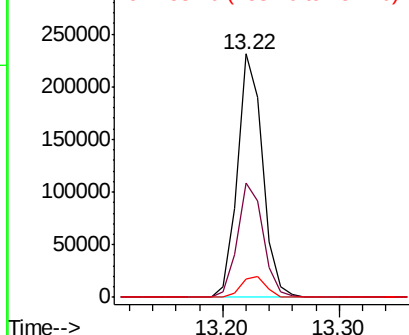
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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

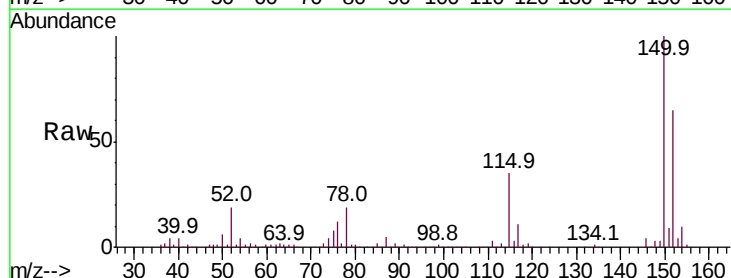
Tgt Ion:152 Resp: 557987

Ion Ratio Lower Upper

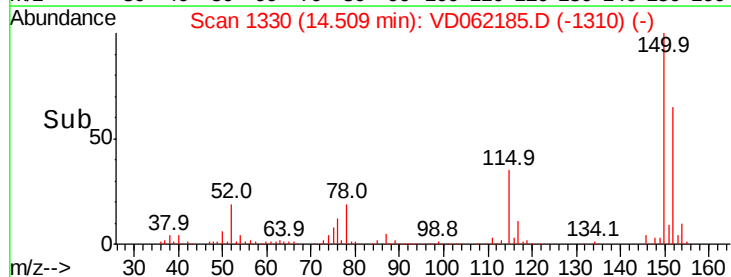
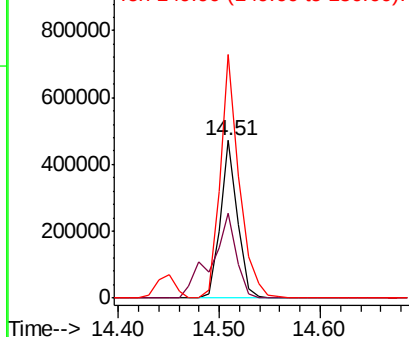
152 100

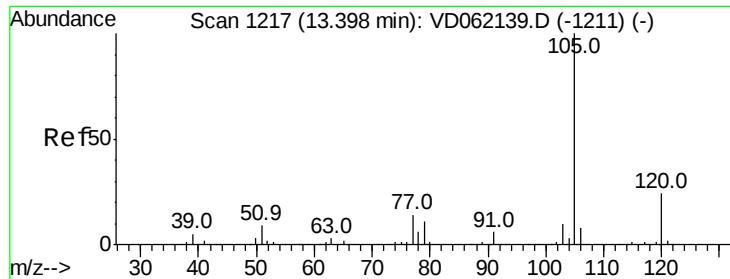
115 54.2 30.9 92.7

150 154.6 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: 53.021 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1773424

Ion Ratio Lower Upper

105 100

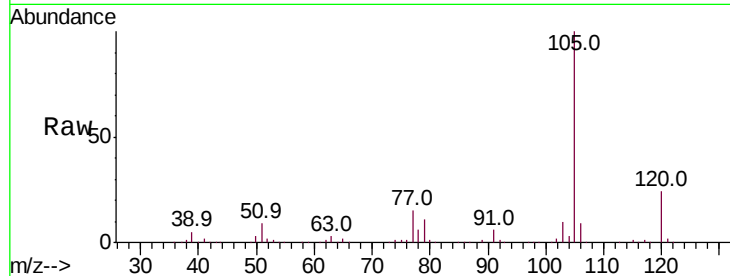
120 24.0 12.0 36.1

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

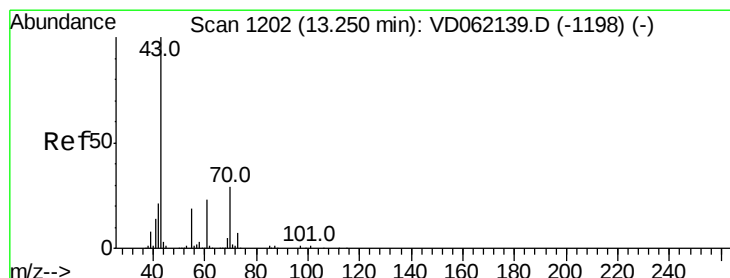
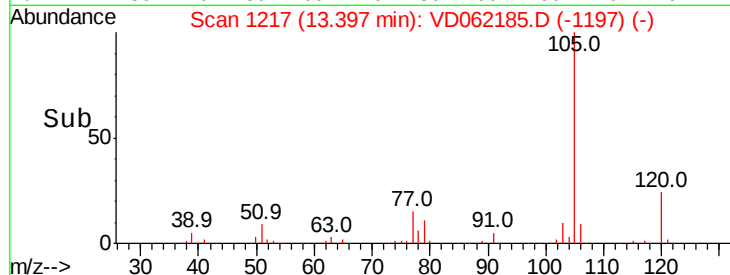
13.40

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 55.102 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tgt Ion: 43 Resp: 483200

Ion Ratio Lower Upper

43 100

70 32.7 24.2 36.4

55 19.5 16.0 24.0

61 25.3 21.6 32.4

Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

500000

400000

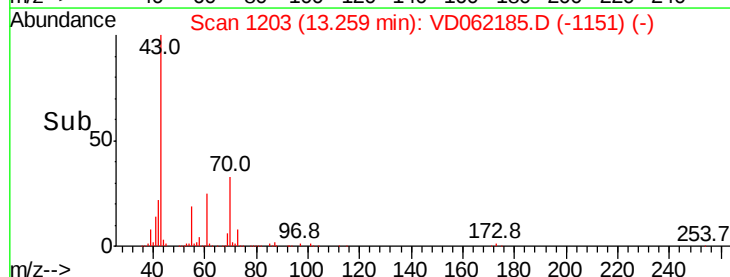
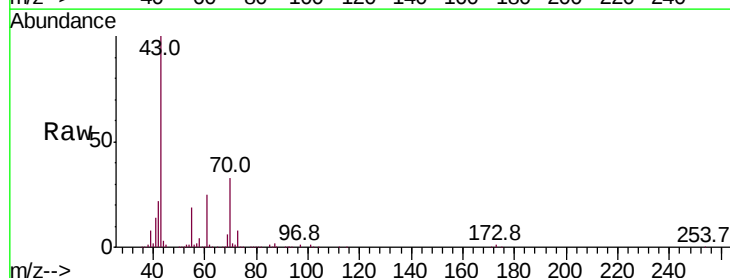
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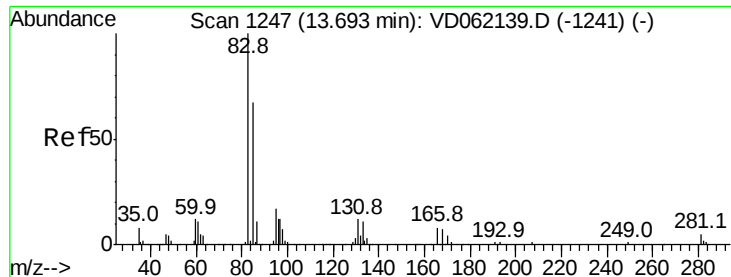
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 55.252 ug/l

RT: 13.69 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

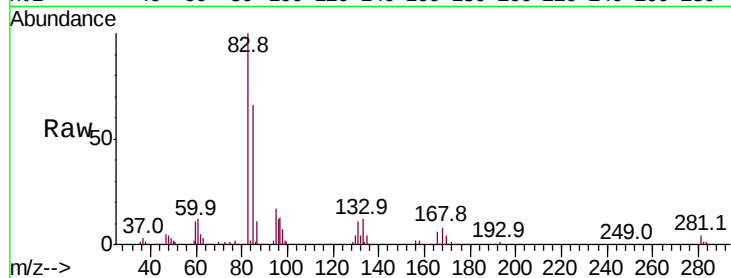
ClientSampleId :

VSTDCCC050

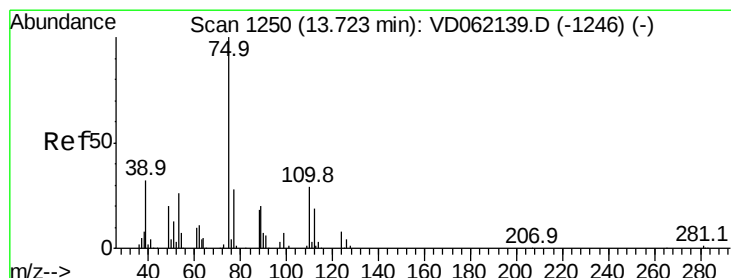
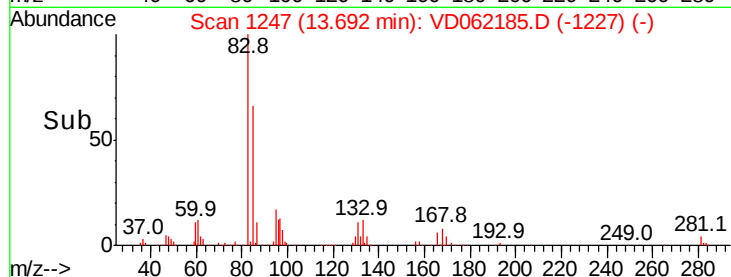
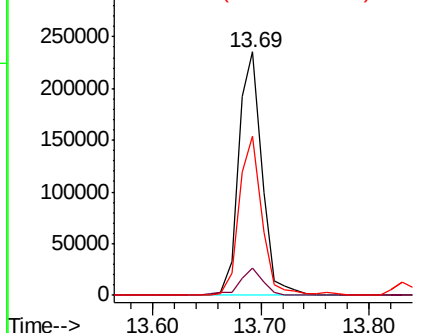
Tot Ion:	83	Resp:	349858
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.0	14.9
85	65.6	32.6	97.7

Manual Integrations
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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: 54.307 ug/l

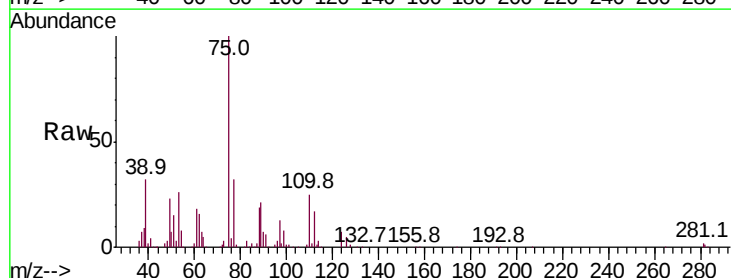
RT: 13.72 min Scan# 1250

Delta R.T. -0.00 min

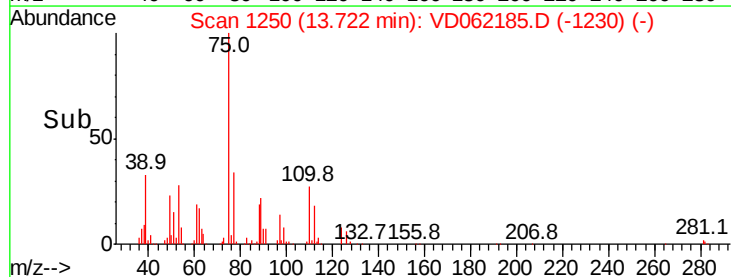
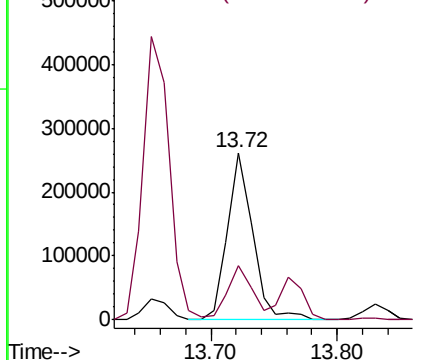
Lab File: VD062185.D

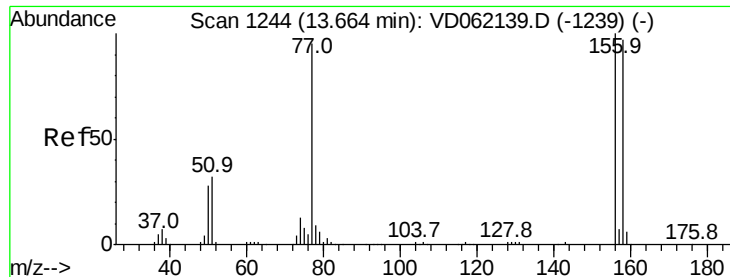
Acq: 9 May 2019 13:23

Tgt Ion:	75	Resp:	360123
Ion Ratio	Lower	Upper	
75	100		
77	32.5	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: 57.348 ug/l

RT: 13.66 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

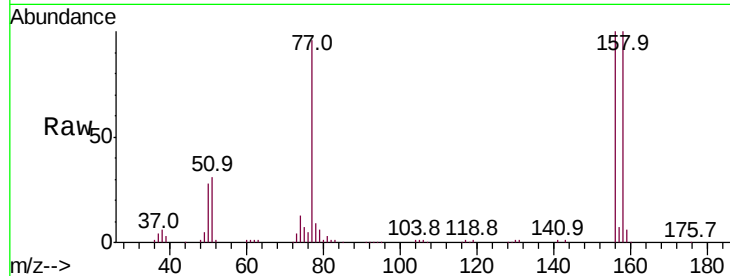
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
156	100			
77	96.3	53.1	159.4	
158	99.6	49.4	148.0	

Manual Integrations
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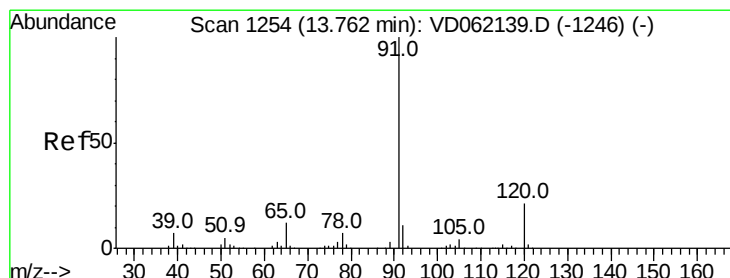
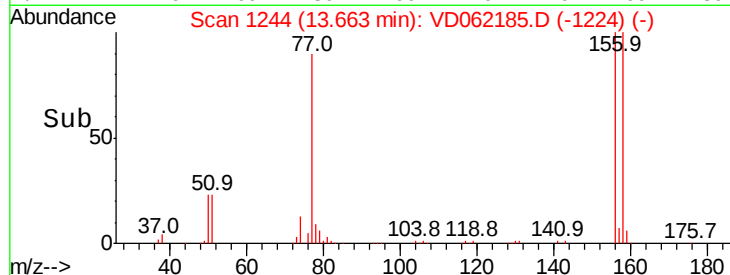
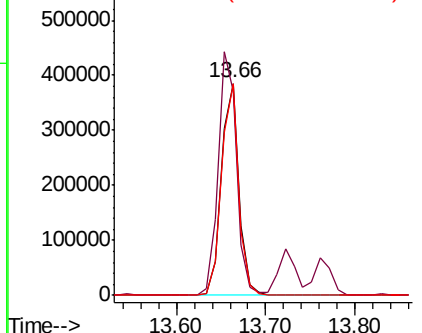
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 54.750 ug/l

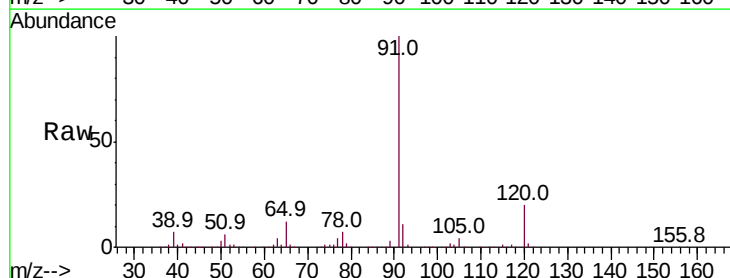
RT: 13.76 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD062185.D

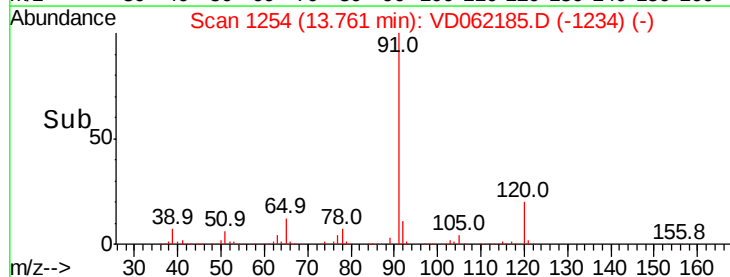
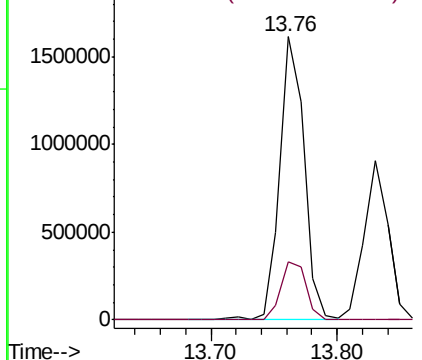
Acq: 9 May 2019 13:23

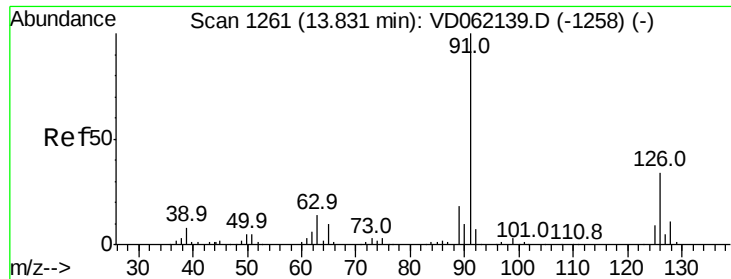
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
120	20.3	11.1	33.1	



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 52.620 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1202403

Ion Ratio Lower Upper

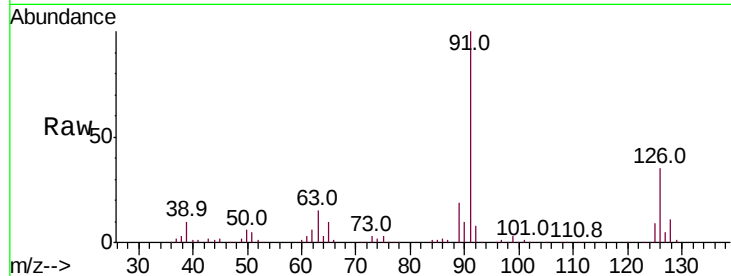
91 100

126 35.3 18.6 55.8

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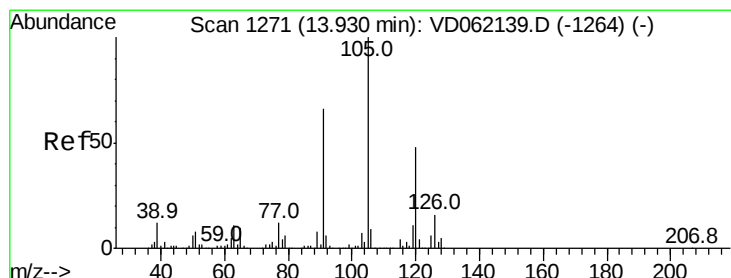
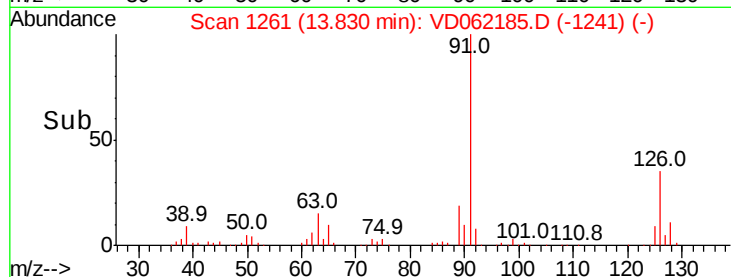
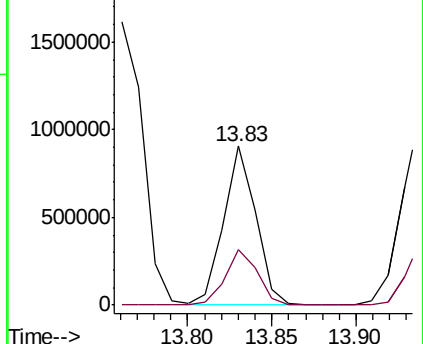
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 53.770 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD062185.D

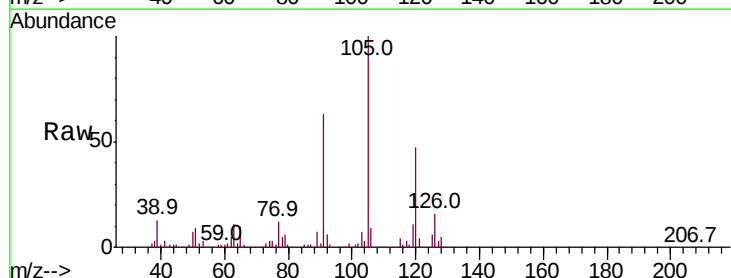
Acq: 9 May 2019 13:23

Tgt Ion:105 Resp: 1514473

Ion Ratio Lower Upper

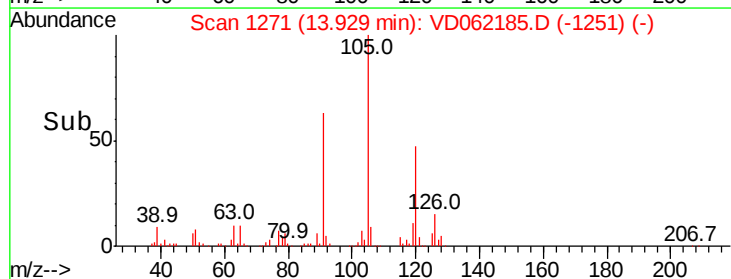
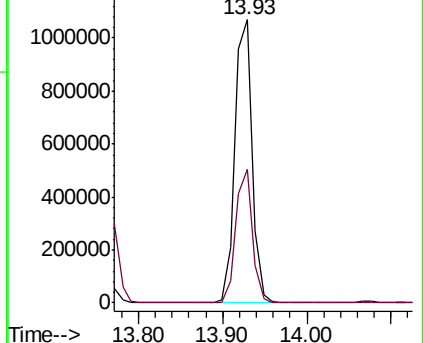
105 100

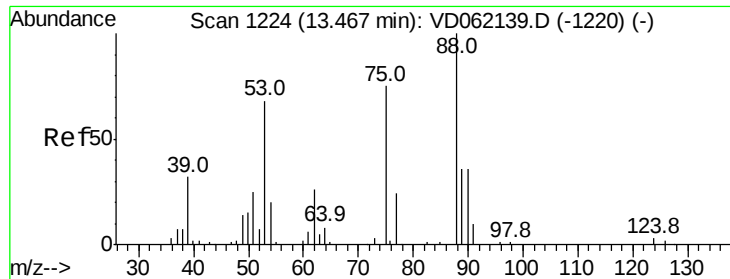
120 47.2 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





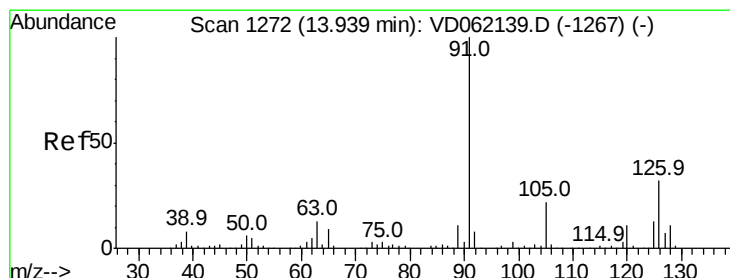
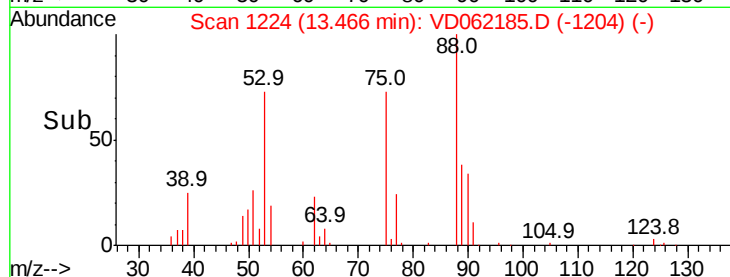
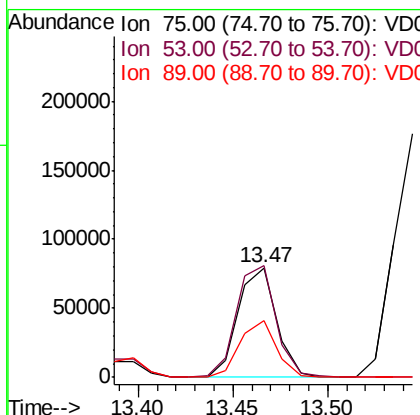
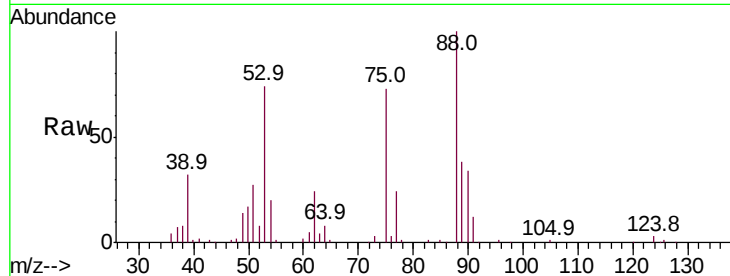
#81
trans-1,4-Dichloro-2-butene
Concen: 60.002 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.8	65.8	98.8#
89	51.7	35.0	52.6

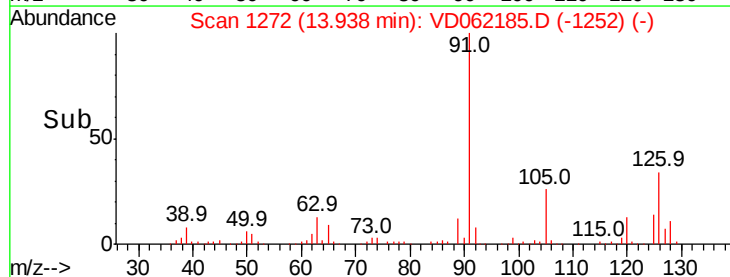
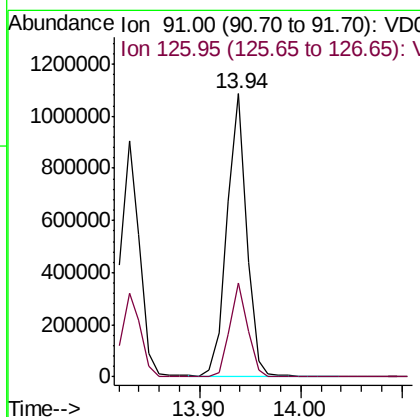
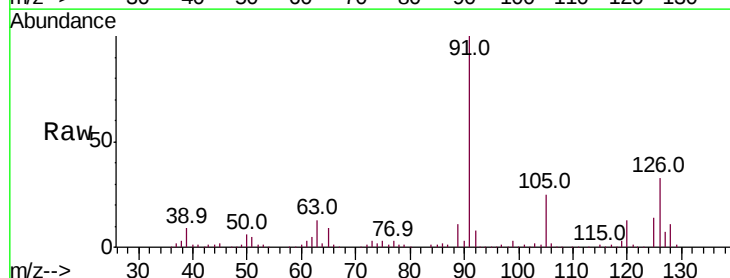
Manual Integrations
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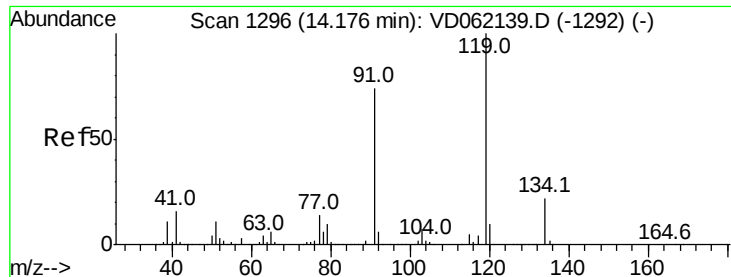
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#82
4-Chlorotoluene
Concen: 54.110 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.1	19.1	57.5





#83

tert-Butylbenzene

Concen: 56.964 ug/l

RT: 14.18 min Scan# 1297

Delta R.T. 0.01 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1803367

Ion Ratio Lower Upper

119 100

91 63.6 34.2 102.6

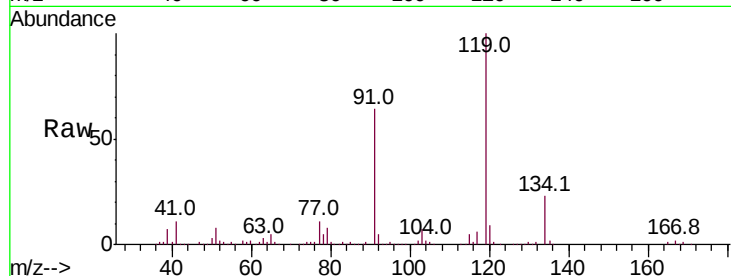
134 23.1 12.0 36.0

Manual Integrations

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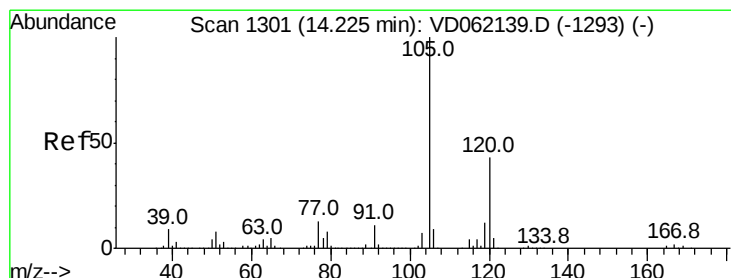
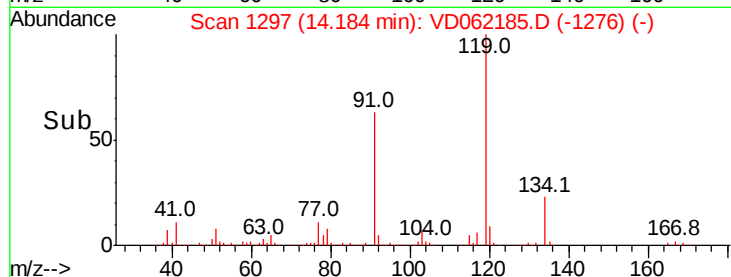
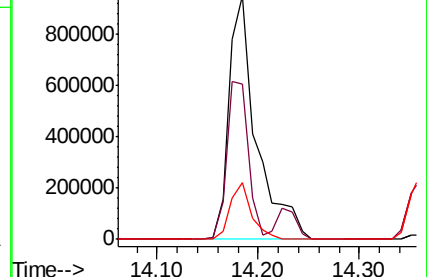
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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 58.017 ug/l

RT: 14.22 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD062185.D

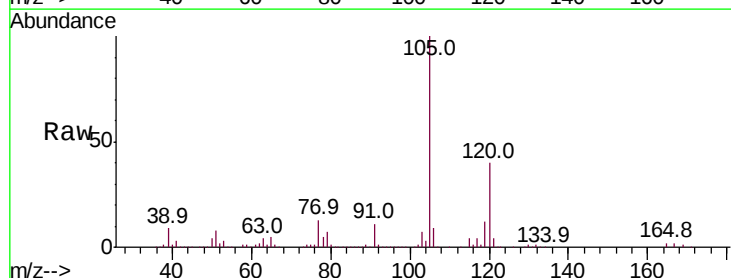
Acq: 9 May 2019 13:23

Tgt Ion:105 Resp: 1639811

Ion Ratio Lower Upper

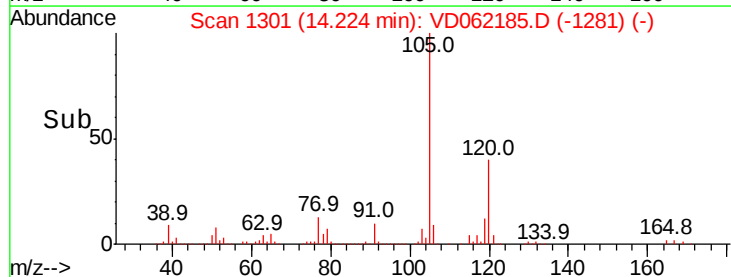
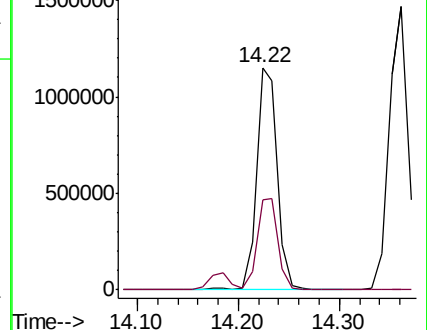
105 100

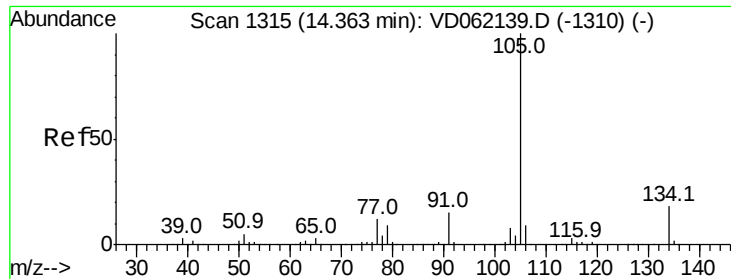
120 40.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





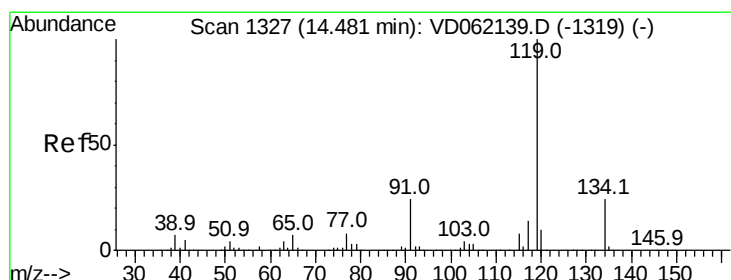
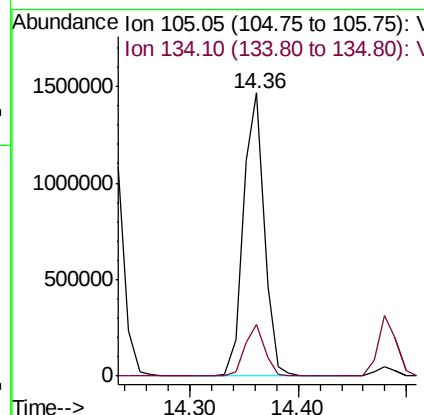
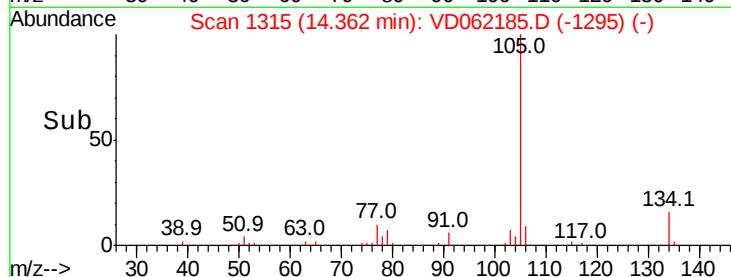
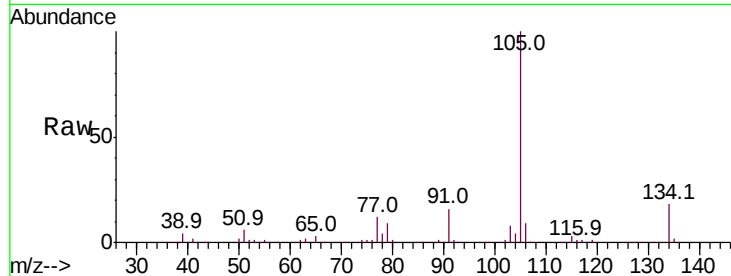
#85
 sec-Butylbenzene
 Concen: 56.328 ug/l
 RT: 14.36 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1955138
 Ion Ratio Lower Upper
 105 100
 134 18.3 8.9 26.7

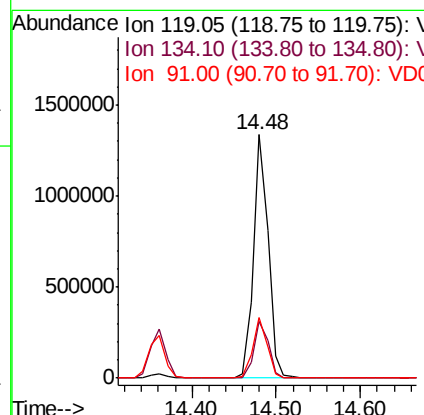
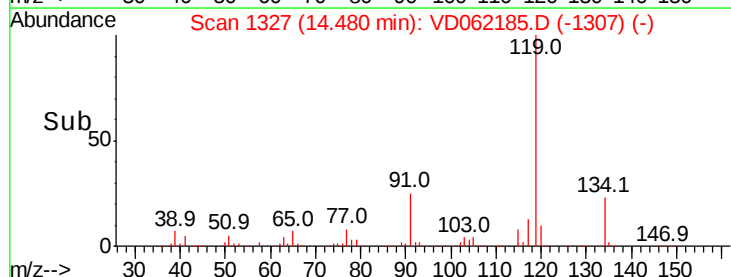
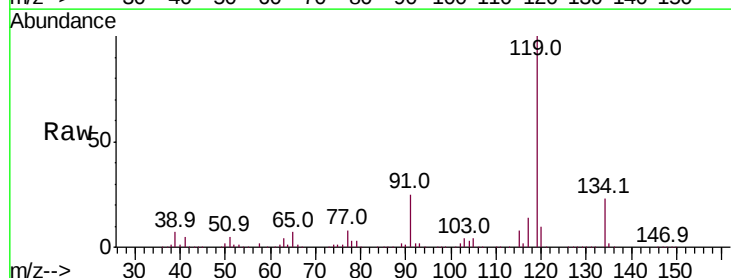
Manual Integrations
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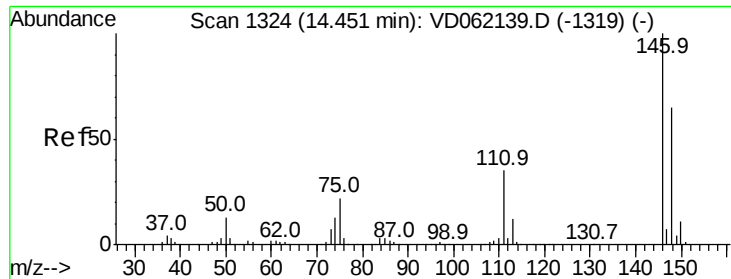
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#86
 p-Isopropyltoluene
 Concen: 52.307 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion:119 Resp: 1622107
 Ion Ratio Lower Upper
 119 100
 134 23.4 12.8 38.3
 91 24.8 10.7 32.1





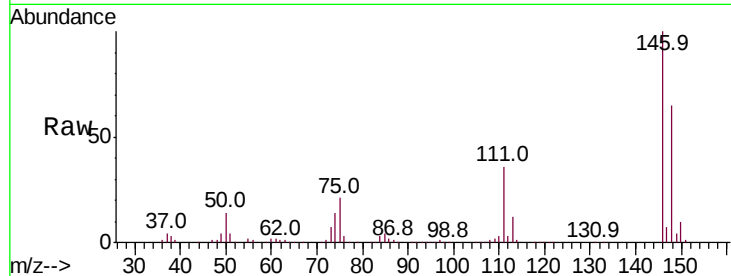
#87
 1,3-Dichlorobenzene
 Concen: 53.434 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

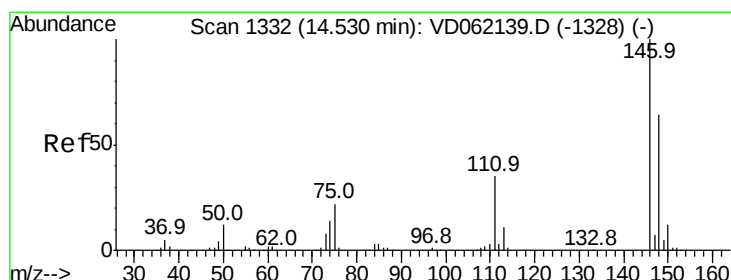
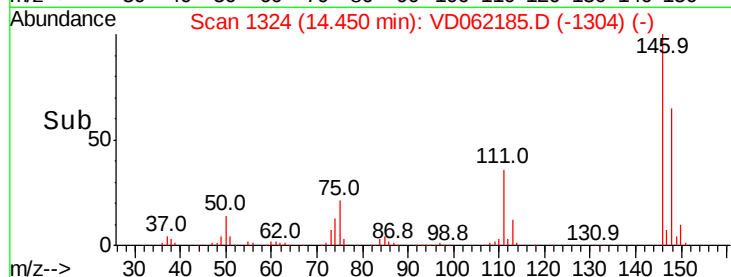
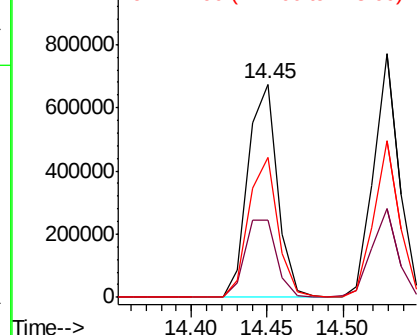
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	20.0	60.0
148	65.5	31.8	95.4

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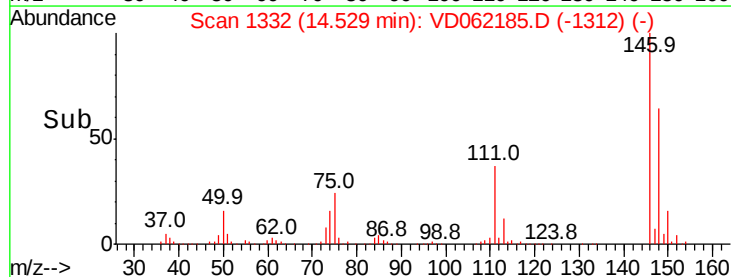
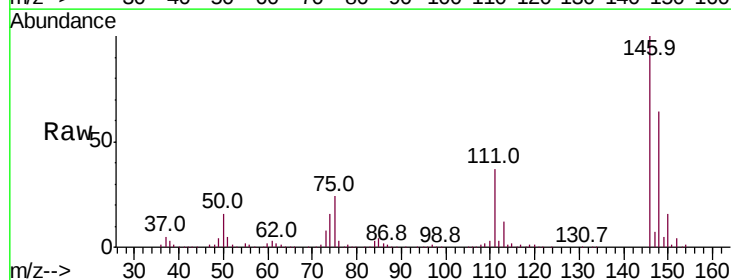
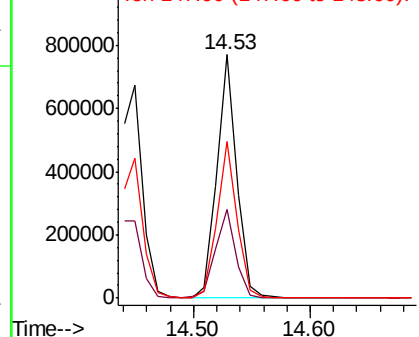
Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

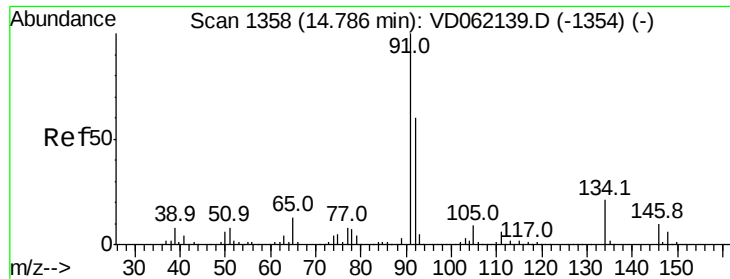


#88
 1,4-Dichlorobenzene
 Concen: 53.814 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	20.2	60.5
148	64.1	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





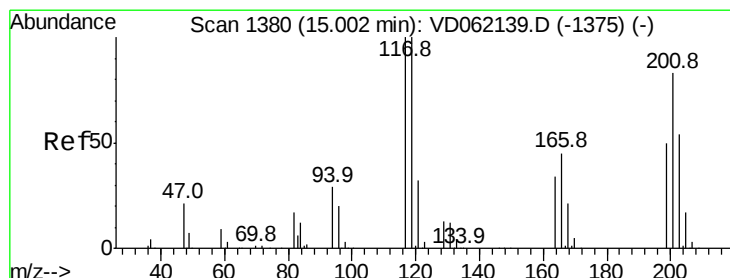
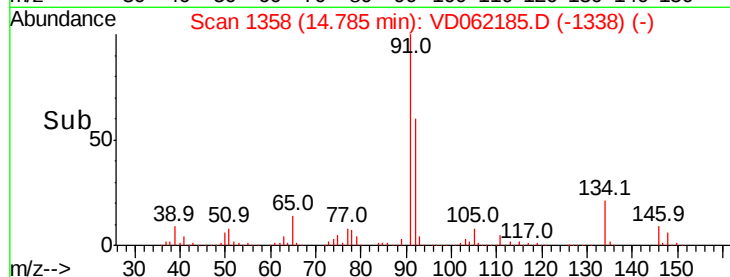
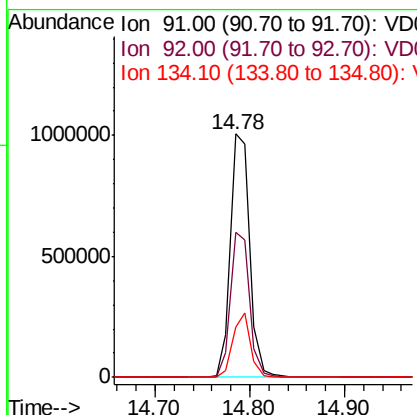
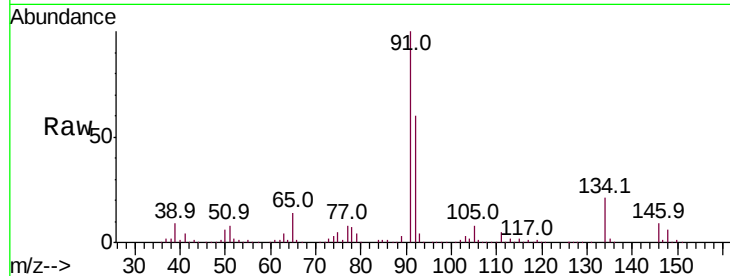
#89
n-Butylbenzene
Concen: 51.081 ug/l
RT: 14.78 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1421844
Ion Ratio Lower Upper
91 100
92 59.8 30.3 91.0
134 20.6 14.5 43.6

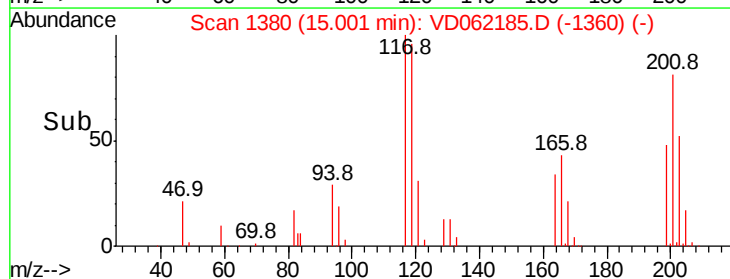
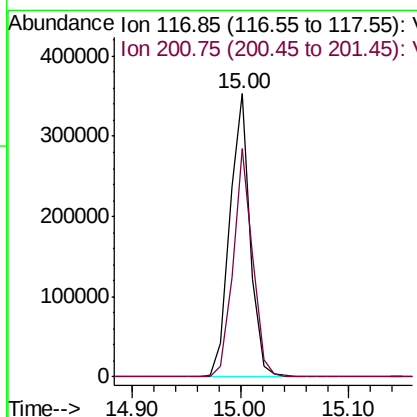
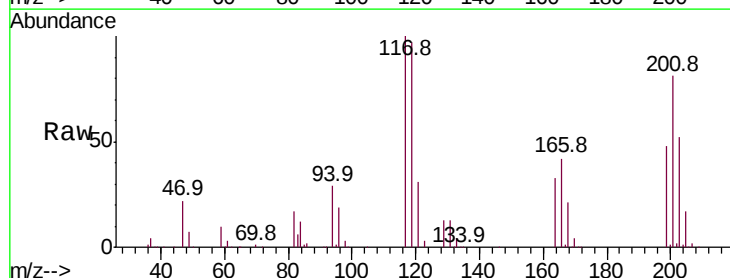
Manual Integrations
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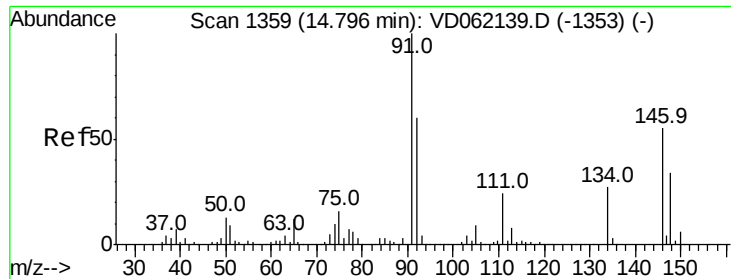
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#90
Hexachloroethane
Concen: 54.367 ug/l
RT: 15.00 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD062185.D
Acq: 9 May 2019 13:23

Tgt Ion: 117 Resp: 458502
Ion Ratio Lower Upper
117 100
201 80.9 30.2 90.6





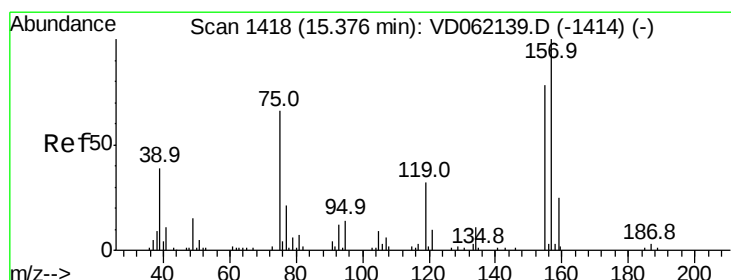
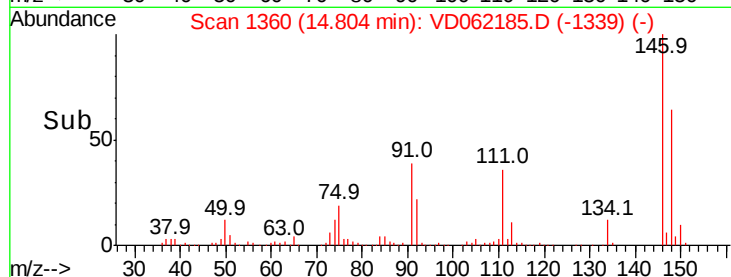
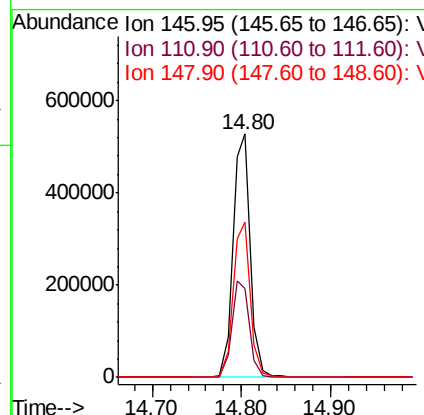
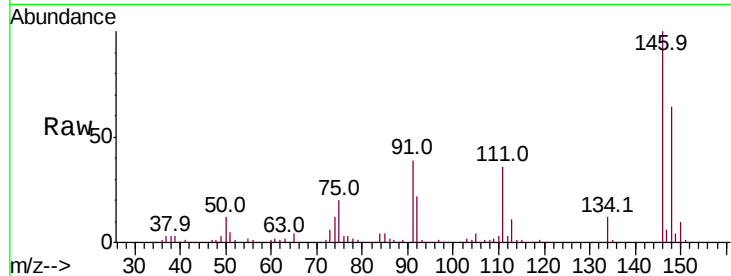
#91
 1,2-Dichlorobenzene
 Concen: 51.671 ug/l
 RT: 14.80 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	20.0	59.9
148	64.0	32.3	96.8

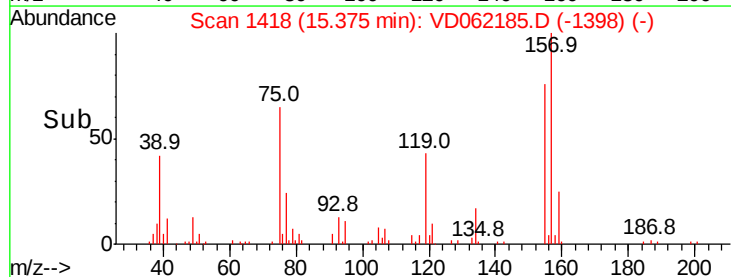
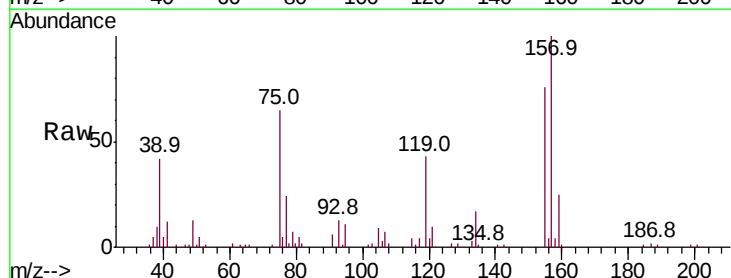
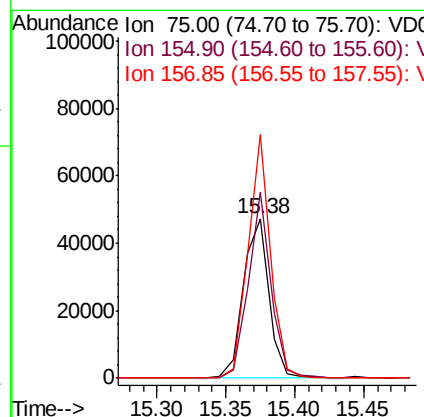
Manual Integrations
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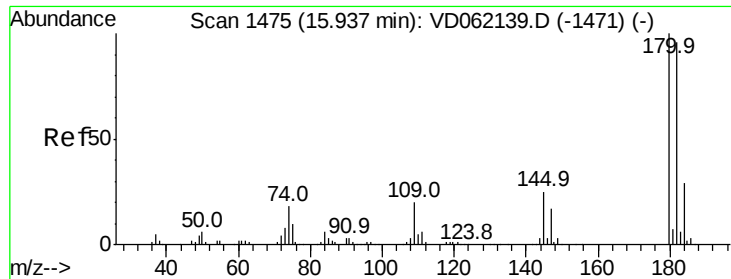
MMDadoda
 5/10/2019 11:54:13 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.795 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	116.7	55.3	165.8
157	152.9	67.8	203.2





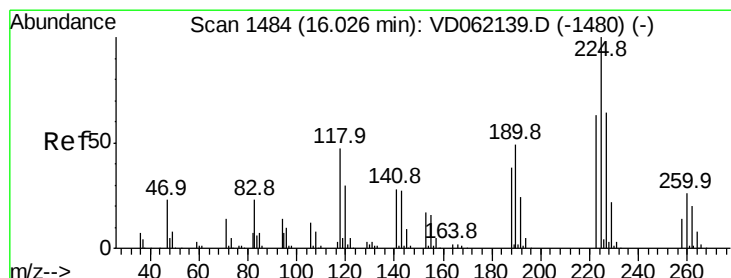
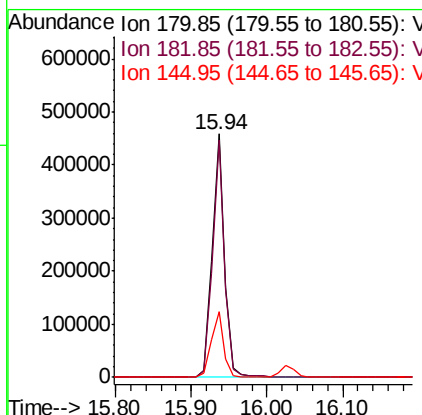
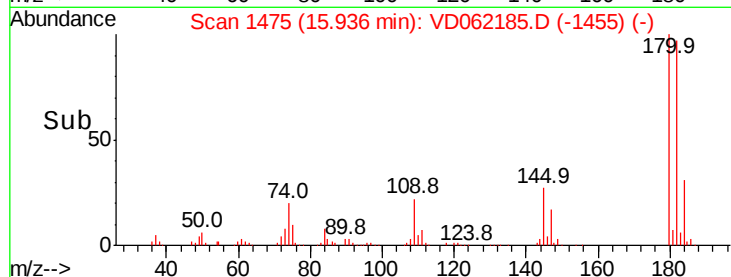
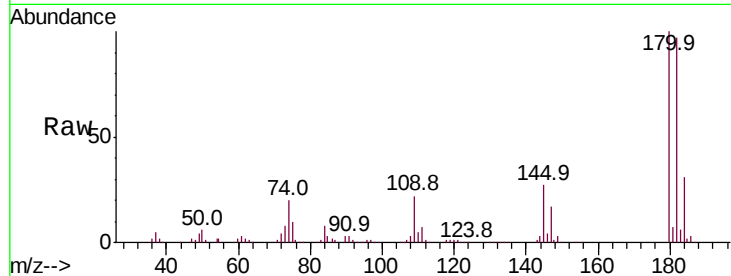
#93
 1,2,4-Trichlorobenzene
 Concen: 51.929 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	49.3	147.8
145	26.9	16.2	48.6

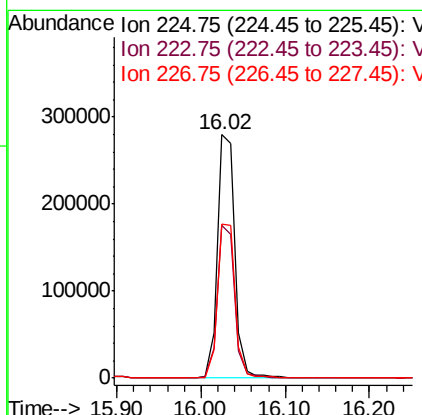
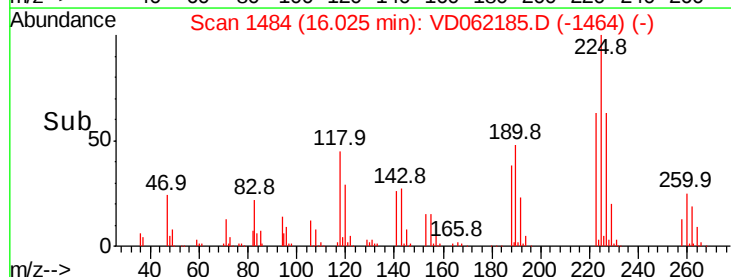
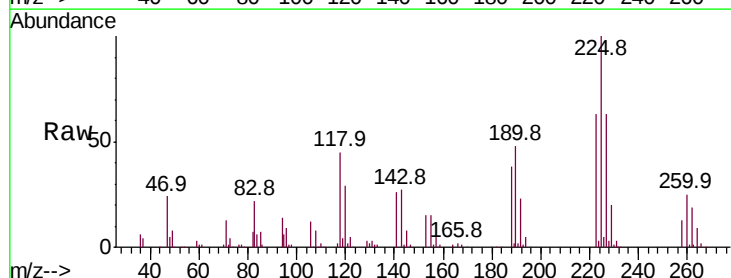
Manual Integrations
 APPROVED

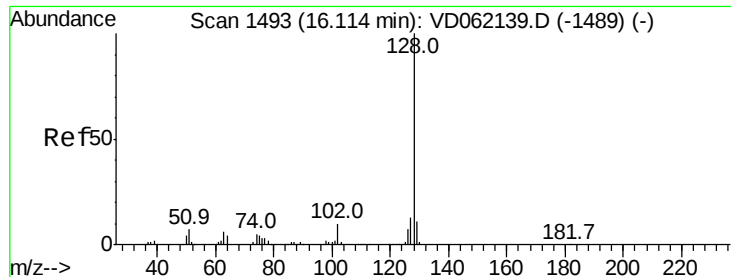
MMDadoda
 5/10/2019 11:54:13 AM



#94
 Hexachlorobutadiene
 Concen: 52.411 ug/l
 RT: 16.02 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD062185.D
 Acq: 9 May 2019 13:23

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	30.6	92.0
227	63.1	32.0	96.2





#95

Naphthalene

Concen: 45.172 ug/l

RT: 16.11 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Instrument :

MSVOA_D

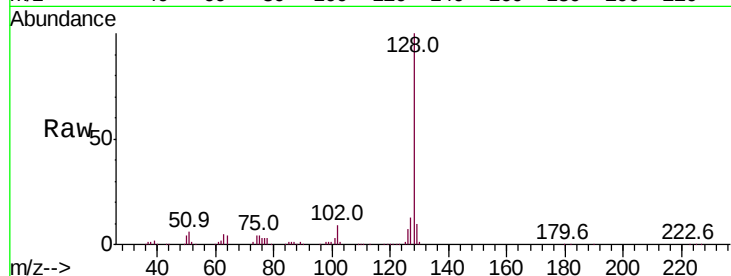
ClientSampleId :

VSTDCCC050

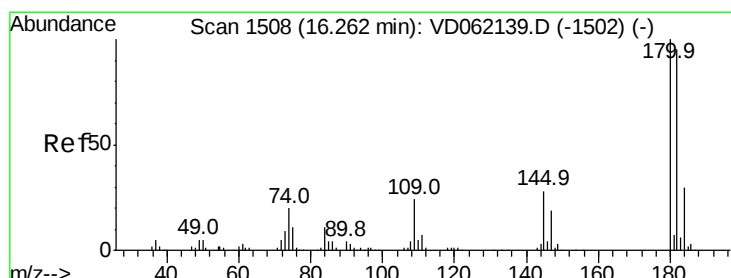
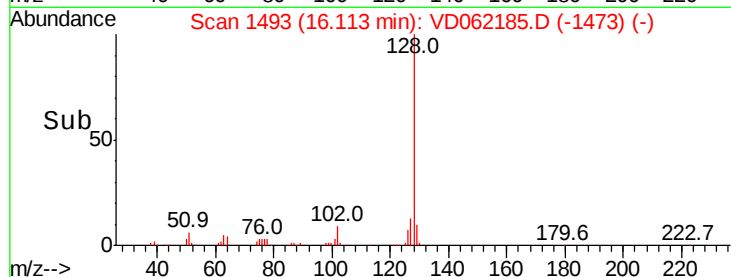
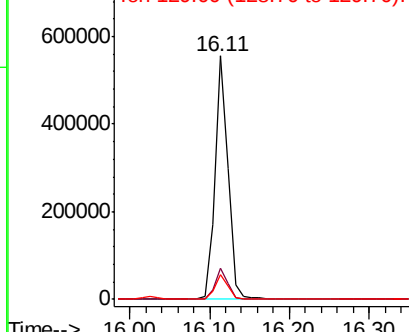
Tot Ion:	128	Resp:	646610
Ion Ratio	Lower	Upper	
128	100		
127	12.8	9.8	14.8
129	10.4	8.8	13.2

Manual Integrations
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5/10/2019 11:54:13 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 42.069 ug/l

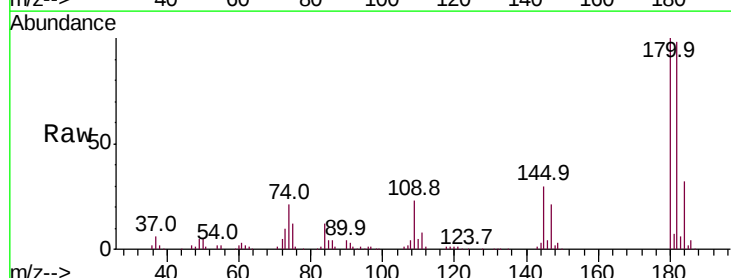
RT: 16.26 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD062185.D

Acq: 9 May 2019 13:23

Tgt Ion:	180	Resp:	271199
Ion Ratio	Lower	Upper	
180	100		
182	98.4	47.0	141.0
145	30.3	17.0	51.0



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

