

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062410.D
 Acq On : 16 May 2019 11:29
 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
 5/17/2019 3:12:06 PM

Quant Time: May 17 02:32:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	700451	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	983746	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	782231	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	450878	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	290210	44.58	ug/l	0.03
Spiked Amount	50.000		Recovery	=	89.16%	
35) Dibromofluoromethane	6.93	113	344071	42.15	ug/l	0.03
Spiked Amount	50.000		Recovery	=	84.30%	
50) Toluene-d8	10.42	98	701986	35.67	ug/l	0.02
Spiked Amount	50.000		Recovery	=	71.34%	
62) 4-Bromofluorobenzene	13.56	95	335107	42.40	ug/l	0.01
Spiked Amount	50.000		Recovery	=	84.80%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	310538	46.354	ug/l	99
3) Chloromethane	1.75	50	192792	39.827	ug/l	97
4) Vinyl Chloride	1.85	62	210338	44.213	ug/l	99
5) Bromomethane	2.14	94	81678	73.272	ug/l	99
6) Chloroethane	2.26	64	115636	57.927	ug/l	99
7) Trichlorofluoromethane	2.53	101	539656	58.348	ug/l	98
8) Diethyl Ether	2.87	74	70481	39.513	ug/l	72
9) 1,1,2-Trichlorotrifluoroet	3.15	101	329200	47.052	ug/l	96
10) Methyl Iodide	3.31	142	432547	40.905	ug/l #	88
11) Tert butyl alcohol	4.06	59	85514	257.364	ug/l	97
12) 1,1-Dichloroethene	3.13	96	252329	47.245	ug/l	89
13) Acrolein	3.04	56	67831	197.374	ug/l	91
14) Allyl chloride	3.62	41	383099	49.334	ug/l #	81
15) Acrylonitrile	4.19	53	207704	237.824	ug/l #	85
16) Acetone	3.22	43	404019	295.966	ug/l #	80
17) Carbon Disulfide	3.37	76	632688	41.180	ug/l	98
18) Methyl Acetate	3.64	43	119833	49.077	ug/l	95
19) Methyl tert-butyl Ether	4.23	73	576577	50.366	ug/l	95
20) Methylene Chloride	3.82	84	263342	46.202	ug/l	90
21) trans-1,2-Dichloroethene	4.22	96	293789	49.434	ug/l	93
22) Diisopropyl ether	5.12	45	812595	49.174	ug/l	88
23) Vinyl Acetate	5.06	43	2362791	271.003	ug/l	96
24) 1,1-Dichloroethane	4.98	63	492816	49.436	ug/l	98
25) 2-Butanone	6.07	43	401743	269.811	ug/l	98
26) 2,2-Dichloropropane	6.03	77	556230	56.014	ug/l	95
27) cis-1,2-Dichloroethene	6.04	96	319249	47.991	ug/l	96
28) Bromochloromethane	6.44	49	231018	58.902	ug/l	93
29) Tetrahydrofuran	6.45	42	166030	242.004	ug/l	95
30) Chloroform	6.67	83	640116	53.280	ug/l	97
31) Cyclohexane	6.96	56	310390	45.447	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	628688	55.363	ug/l	98
36) 1,1-Dichloropropene	7.15	75	425715	52.780	ug/l	94
37) Ethyl Acetate	6.19	43	174222	50.933	ug/l #	91
38) Carbon Tetrachloride	7.11	117	626445m	56.114	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	349230	45.190	ug/l	93
40) Benzene	7.46	78	837328	45.973	ug/l	97
41) Methacrylonitrile	6.45	41	218881	52.362	ug/l #	84
42) 1,2-Dichloroethane	7.58	62	410897	53.247	ug/l	92
43) Isopropyl Acetate	9.24	43	249682	51.468	ug/l #	97
44) Trichloroethene	8.54	130	323013	46.541	ug/l	85
45) 1,2-Dichloropropane	8.94	63	211622	46.974	ug/l	98
46) Dibromomethane	9.06	93	189577	51.747	ug/l	96
47) Bromodichloromethane	9.38	83	478615	53.411	ug/l	99
48) Methyl methacrylate	9.12	41	147480	49.356	ug/l #	84
49) 1,4-Dioxane	9.08	88	29778	923.625	ug/l	93
51) 4-Methyl-2-Pentanone	10.30	43	781708	250.679	ug/l	93
52) Toluene	10.52	92	574252	48.458	ug/l	95
53) t-1,3-Dichloropropene	10.92	75	413891	53.441	ug/l	97
54) cis-1,3-Dichloropropene	10.05	75	448851	53.124	ug/l #	87
55) 1,1,2-Trichloroethane	11.20	97	202969	48.407	ug/l	93
56) Ethyl methacrylate	11.05	69	211034	48.434	ug/l #	85
57) 1,3-Dichloropropane	11.41	76	300240	47.397	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.87	63	637485	267.850	ug/l	95
59) 2-Hexanone	11.54	43	570380	248.169	ug/l	95
60) Dibromochloromethane	11.69	129	379294	52.343	ug/l	97
61) 1,2-Dibromoethane	11.81	107	251314	49.300	ug/l	94
64) Tetrachloroethene	11.27	164	296561	48.484	ug/l	95
65) Chlorobenzene	12.41	112	692525	47.533	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.52	131	334210	52.708	ug/l	95
67) Ethyl Benzene	12.53	91	1275039	52.275	ug/l	95
68) m/p-Xylenes	12.67	106	810854	91.373	ug/l	89
69) o-Xylene	13.06	106	399584	48.434	ug/l	89
70) Styrene	13.08	104	716623	51.276	ug/l	96
71) Bromoform	13.23	173	233339	52.893	ug/l	97
73) Isopropylbenzene	13.41	105	1280151	47.366	ug/l	97
74) N-amyl acetate	13.26	43	298619	42.143	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.71	83	217301	42.470	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	252821	47.183	ug/l	94
77) Bromobenzene	13.68	156	361437	47.772	ug/l	93
78) n-propylbenzene	13.78	91	1537451	47.687	ug/l	95
79) 2-Chlorotoluene	13.84	91	880495	47.686	ug/l	95
80) 1,3,5-Trimethylbenzene	13.93	105	1077172	47.330	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.48	75	68737	45.440	ug/l #	75
82) 4-Chlorotoluene	13.95	91	1007480	46.367	ug/l	90
83) tert-Butylbenzene	14.19	119	1273924	49.800	ug/l	90
84) 1,2,4-Trimethylbenzene	14.24	105	1118418	48.970	ug/l	91
85) sec-Butylbenzene	14.38	105	1335507	47.617	ug/l	99
86) p-Isopropyltoluene	14.49	119	1207661	48.194	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	624422	45.179	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	646302	47.592	ug/l	97
89) n-Butylbenzene	14.80	91	1136426	50.526	ug/l	93
90) Hexachloroethane	15.02	117	320122	46.976	ug/l	65
91) 1,2-Dichlorobenzene	14.81	146	542895	47.696	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	42033	50.046	ug/l	66

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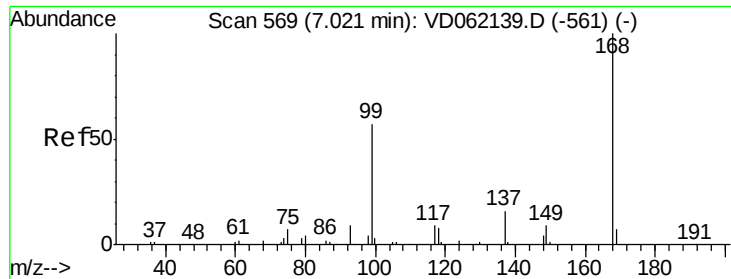
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	435937	52.618	ug/l	97
94) Hexachlorobutadiene	16.04	225	334007	54.204	ug/l	99
95) Naphthalene	16.13	128	506907	43.825	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	340262	65.322	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 700451

Ion Ratio Lower Upper

168 100

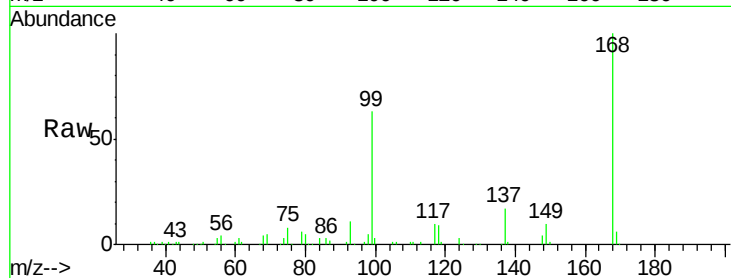
99 63.0 46.5 69.7

Manual Integrations

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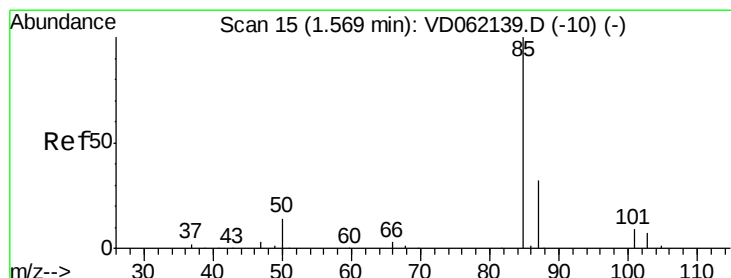
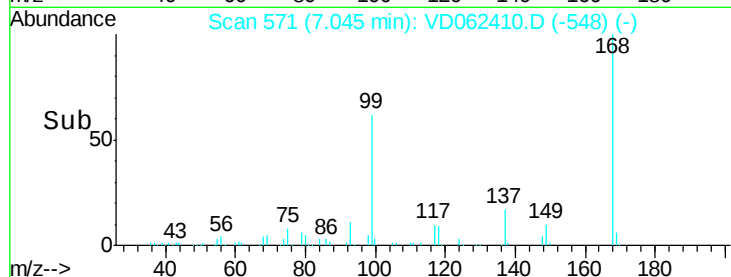
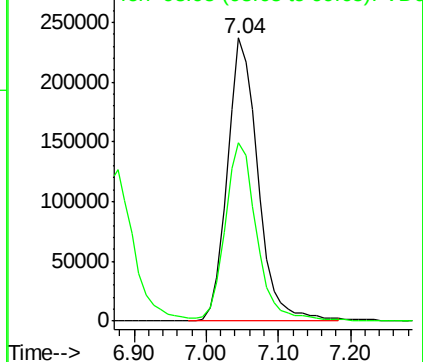
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 46.354 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062410.D

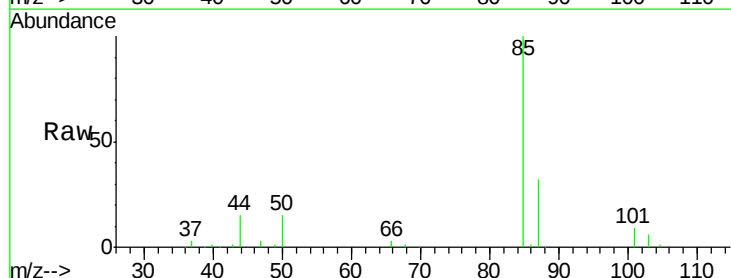
Acq: 16 May 2019 11:29

Tgt Ion: 85 Resp: 310538

Ion Ratio Lower Upper

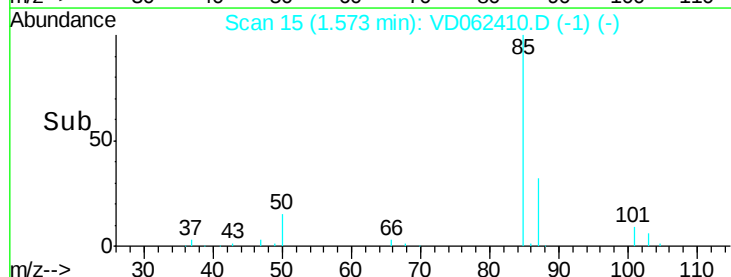
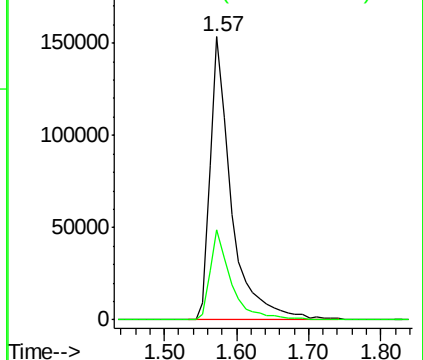
85 100

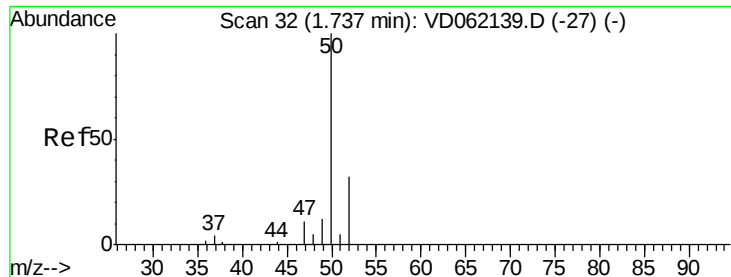
87 32.0 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 39.827 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 192792

Ion Ratio Lower Upper

50 100

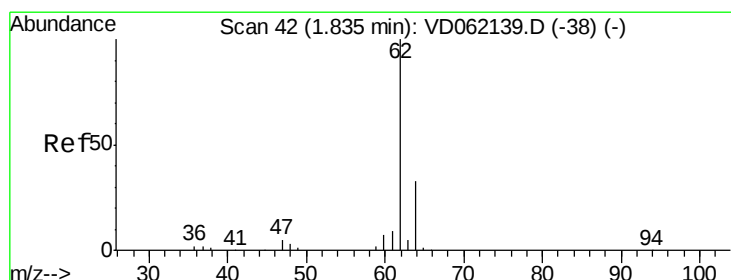
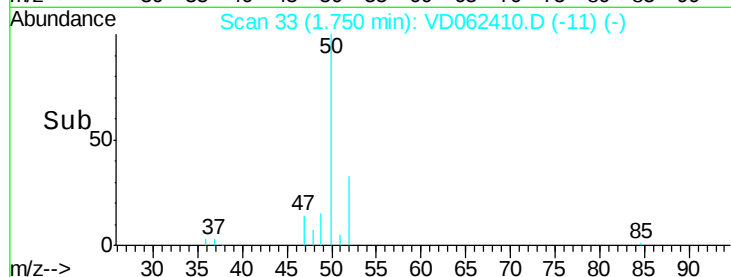
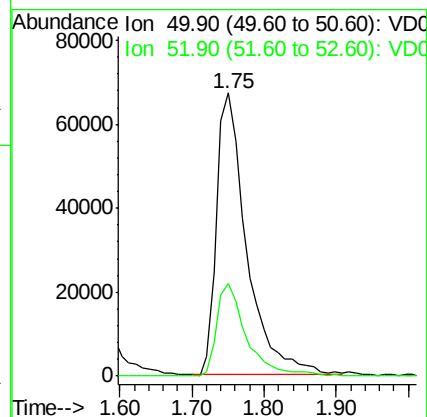
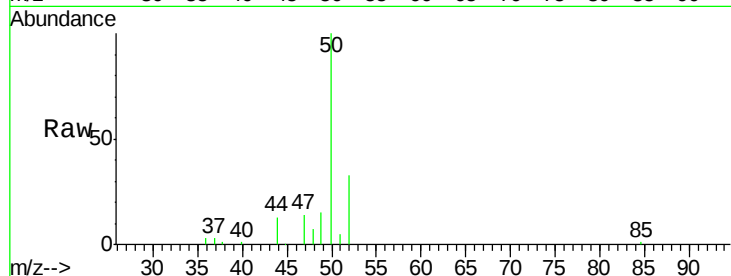
52 32.9 25.2 37.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 44.213 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD062410.D

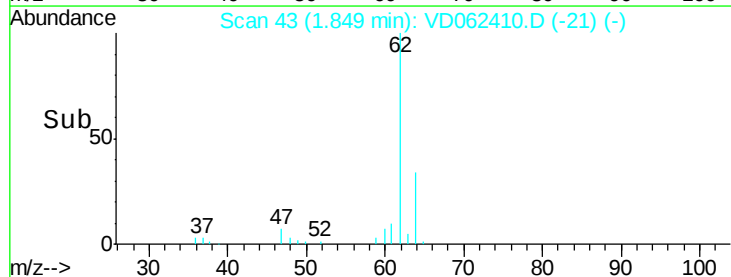
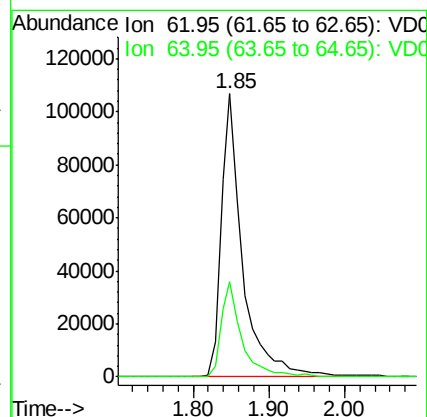
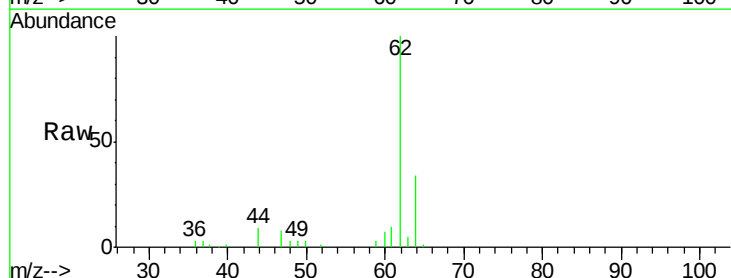
Acq: 16 May 2019 11:29

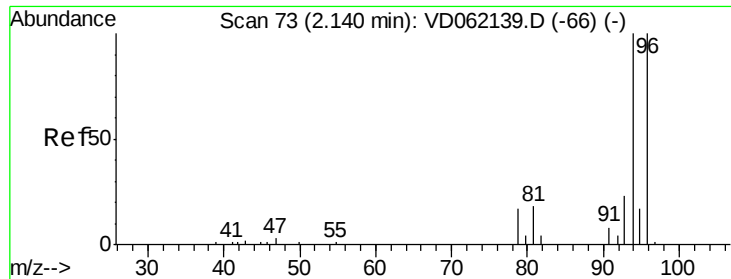
Tgt Ion: 62 Resp: 210338

Ion Ratio Lower Upper

62 100

64 33.7 26.5 39.7





#5

Bromomethane

Concen: 73.272 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 81678

Ion Ratio Lower Upper

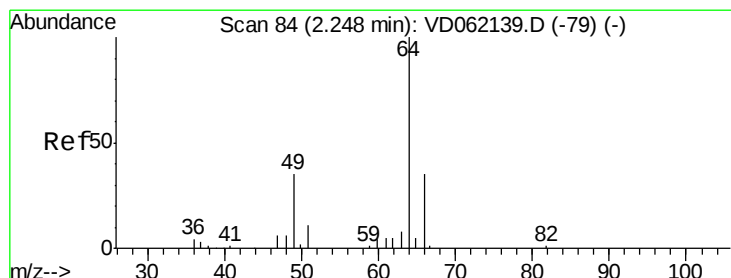
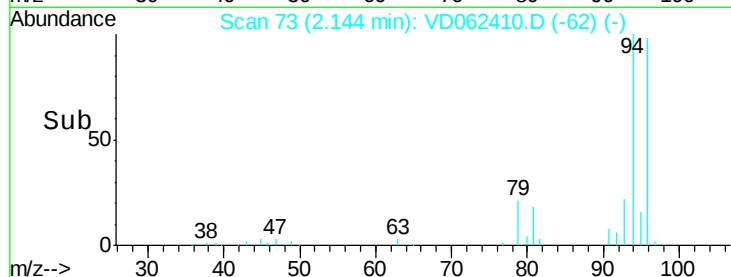
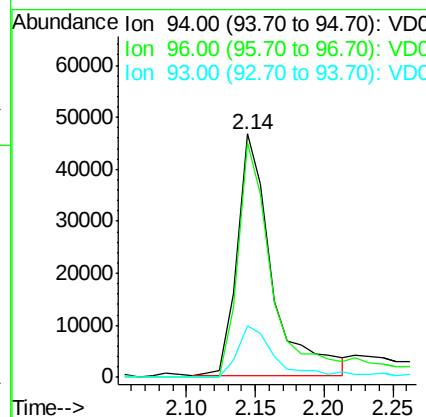
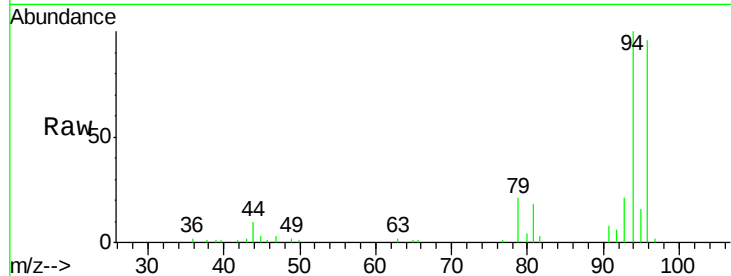
94 100

96 96.4 76.6 115.0

93 21.4 18.5 27.7

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#6

Chloroethane

Concen: 57.927 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VD062410.D

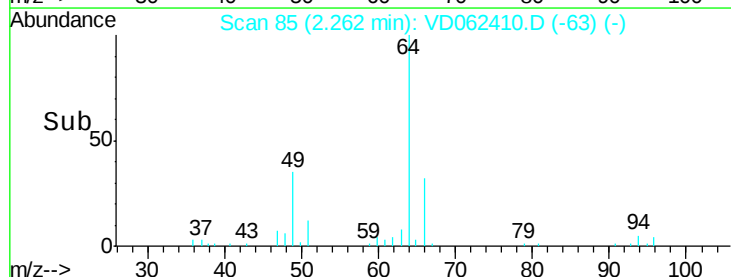
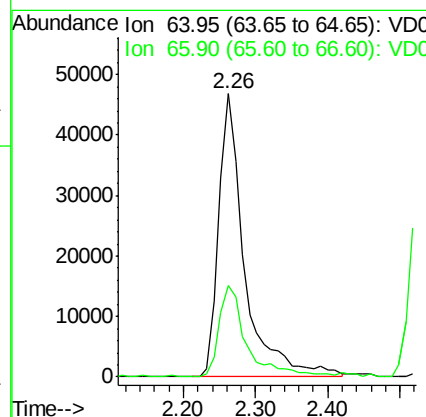
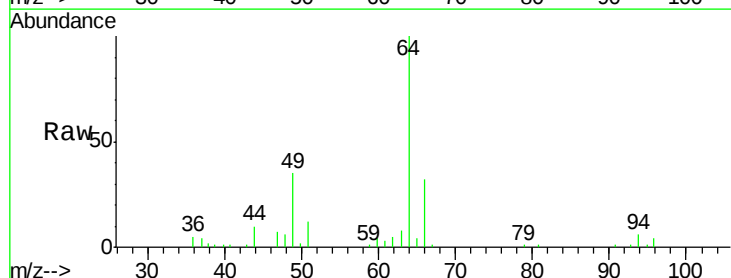
Acq: 16 May 2019 11:29

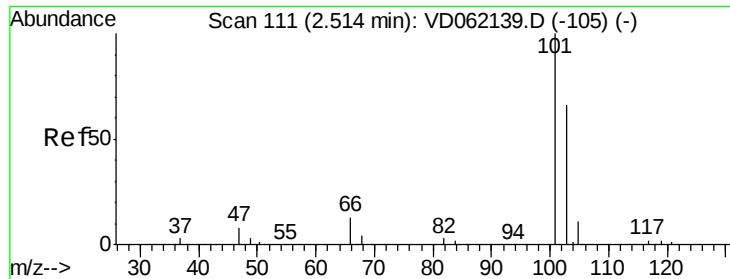
Tgt Ion: 64 Resp: 115636

Ion Ratio Lower Upper

64 100

66 32.5 25.6 38.4





#7

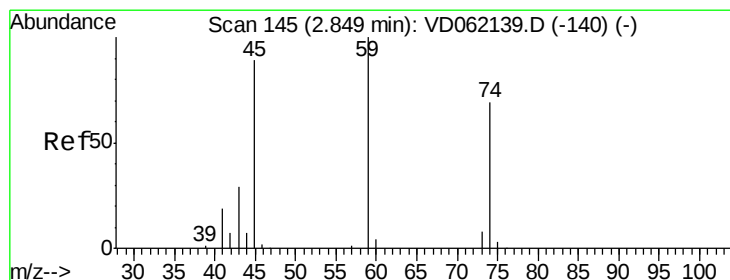
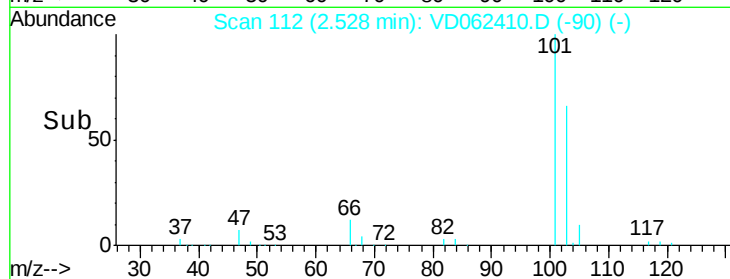
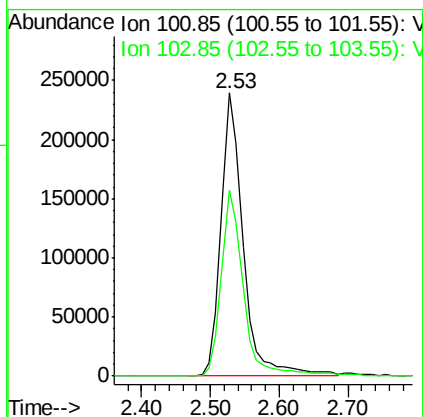
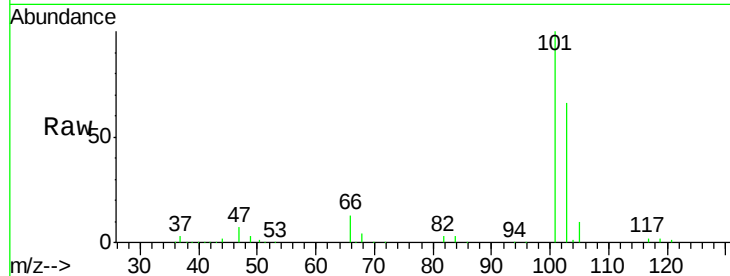
Trichlorofluoromethane
Concen: 58.348 ug/l
RT: 2.53 min Scan# 112
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

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ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 539656
Ion Ratio Lower Upper
101 100
103 65.6 53.6 80.4

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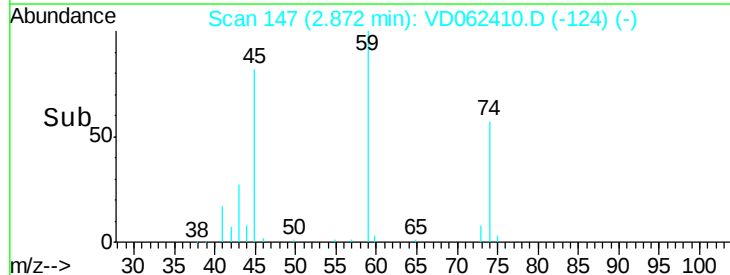
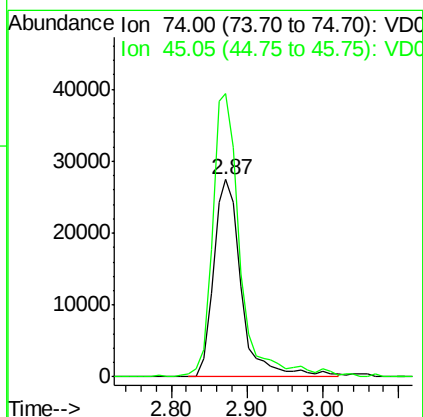
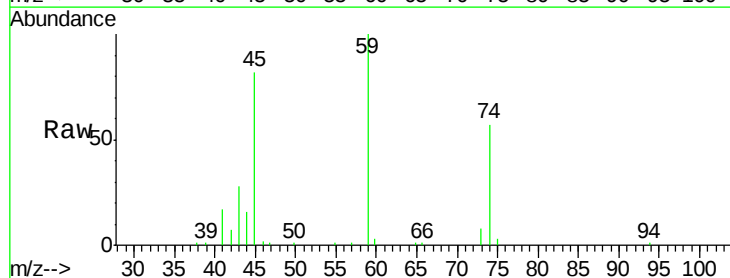
MMDadoda
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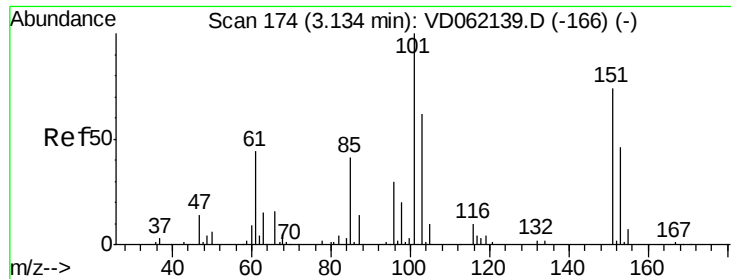


#8

Diethyl Ether
Concen: 39.513 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion: 74 Resp: 70481
Ion Ratio Lower Upper
74 100
45 143.6 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.052 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

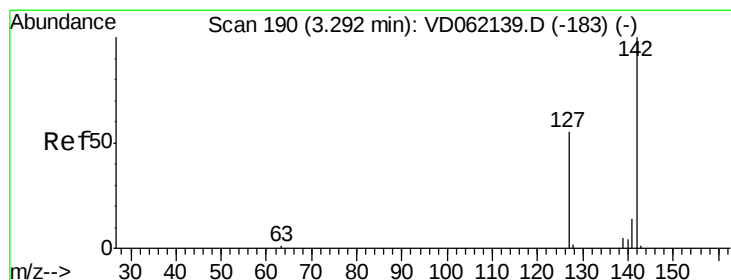
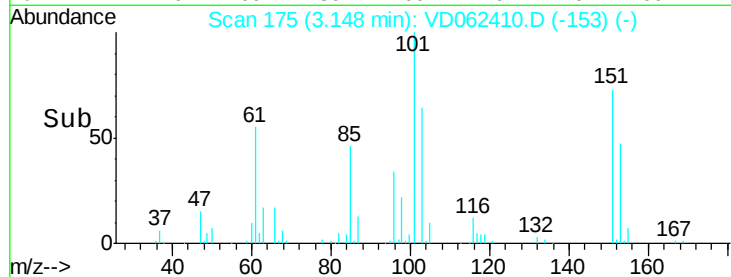
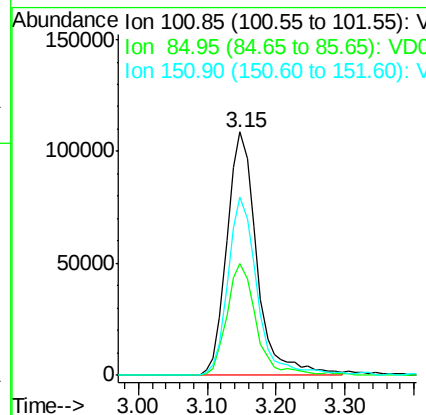
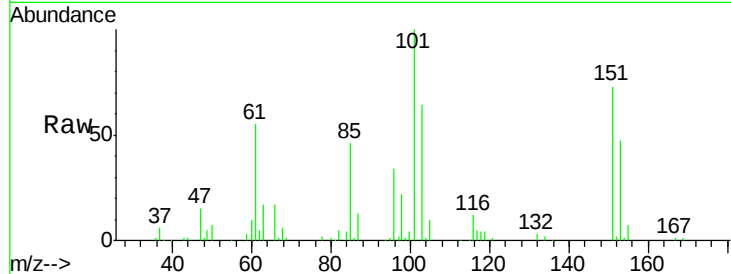
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	329200
Ion Ratio	Lower	Upper	
101	100		
85	45.8	32.4	48.6
151	73.0	59.4	89.0

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#10

Methyl Iodide

Concen: 40.905 ug/l

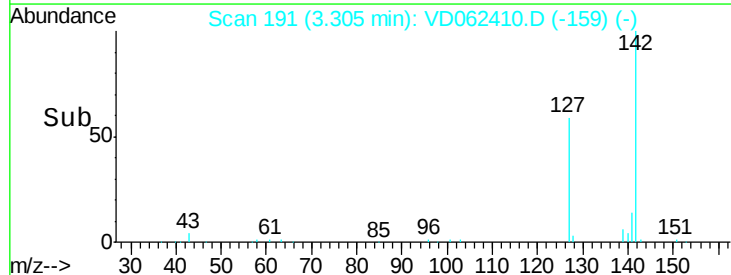
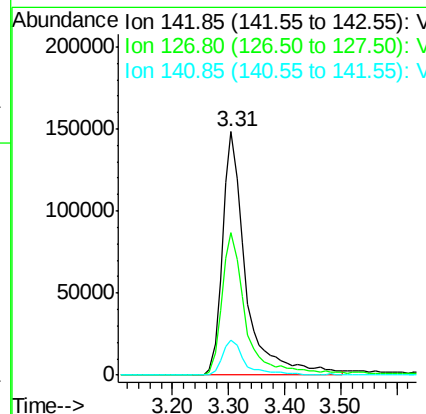
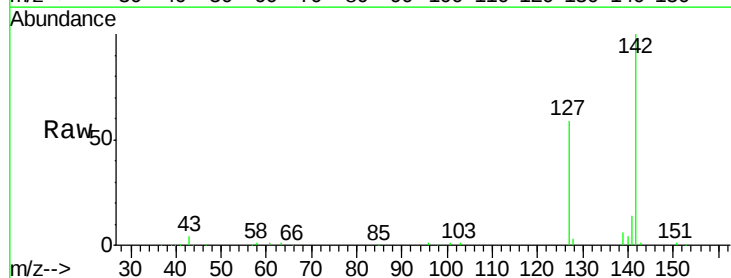
RT: 3.31 min Scan# 191

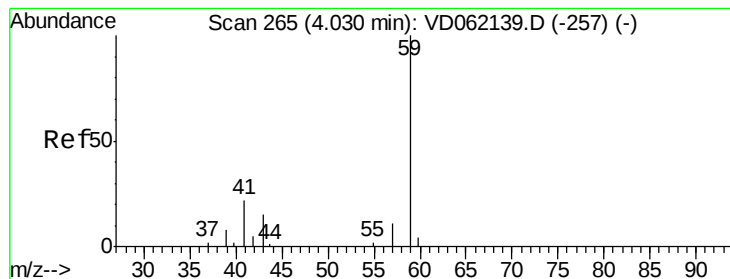
Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	142	Resp:	432547
Ion Ratio	Lower	Upper	
142	100		
127	58.6	38.8	58.2#
141	14.1	11.4	17.0





#11

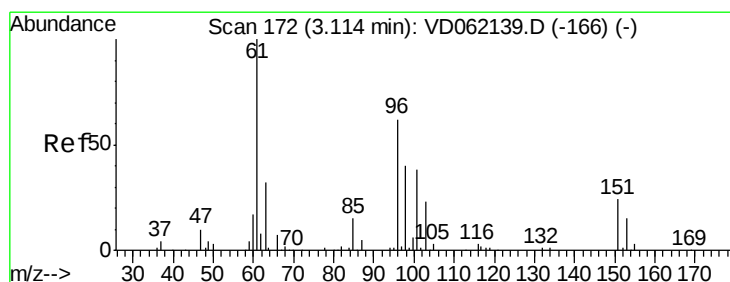
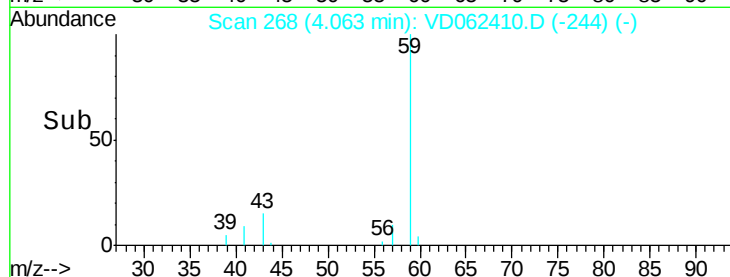
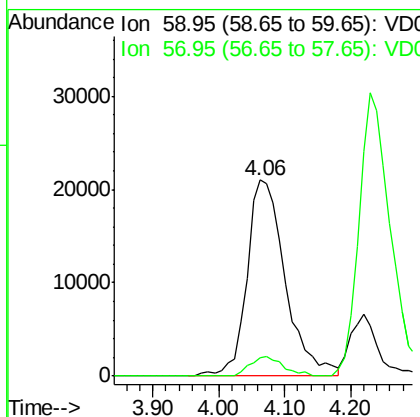
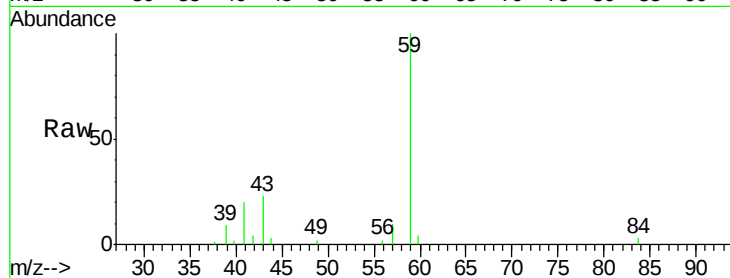
Tert butyl alcohol
 Concen: 257.364 ug/l
 RT: 4.06 min Scan# 268
 Delta R.T. 0.03 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	85514		
57	9.6		6.9	10.3

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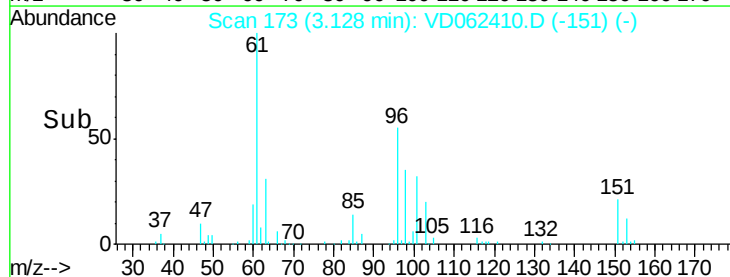
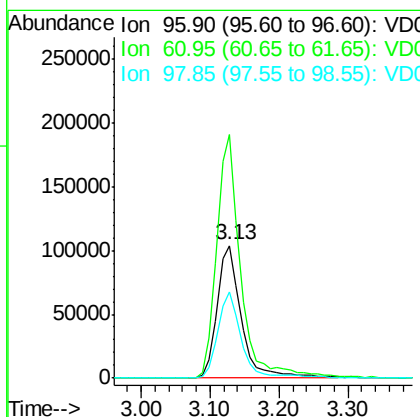
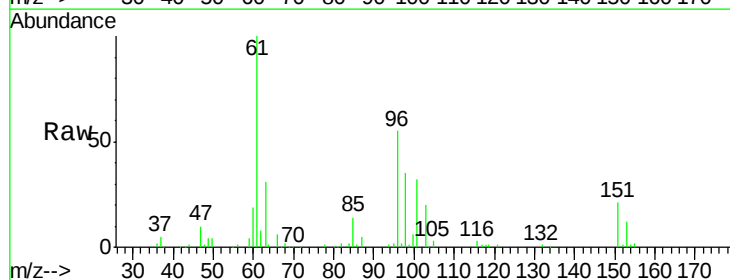
MMDadoda
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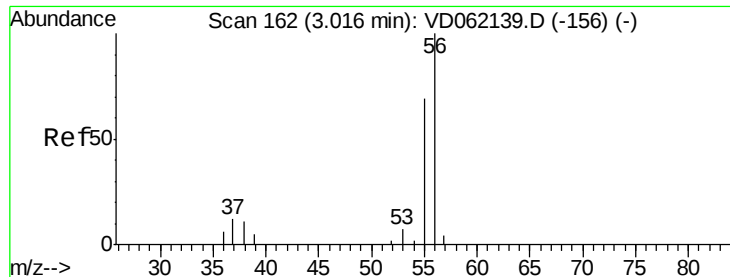


#12

1,1-Dichloroethene
 Concen: 47.245 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	252329		
61	183.3		129.8	194.8
98	64.4		51.2	76.8





#13

Acrolein

Concen: 197.374 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 67831

Ion Ratio Lower Upper

56 100

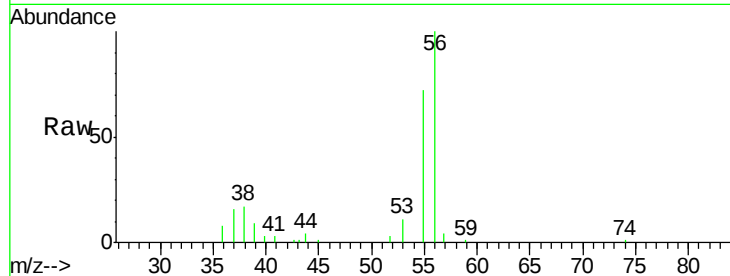
55 71.7 51.4 77.2

Manual Integrations

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.04

25000

20000

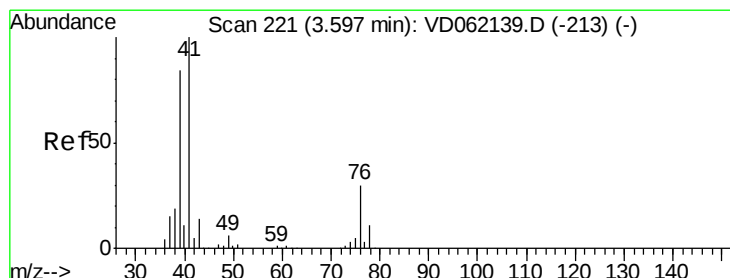
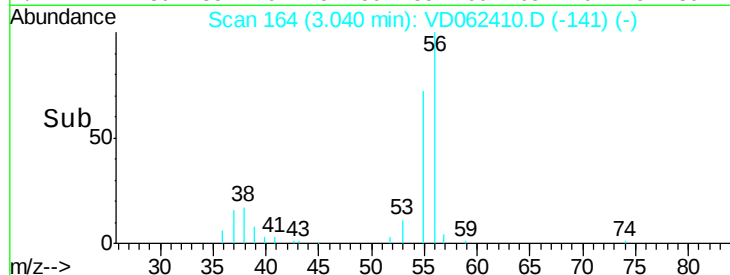
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 49.334 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

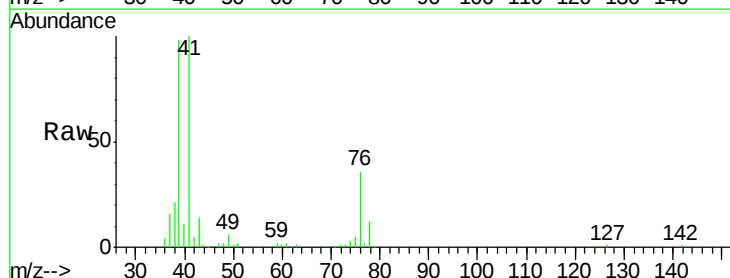
Tgt Ion: 41 Resp: 383099

Ion Ratio Lower Upper

41 100

39 97.8 60.5 90.7#

76 35.5 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

3.62

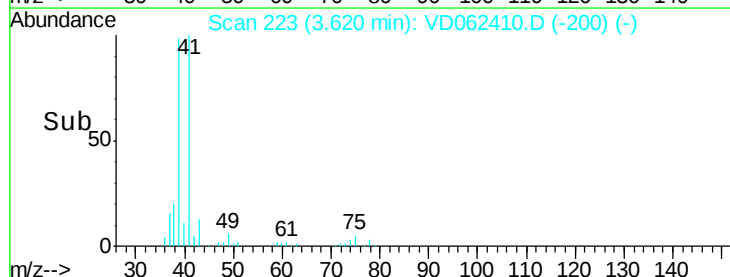
150000

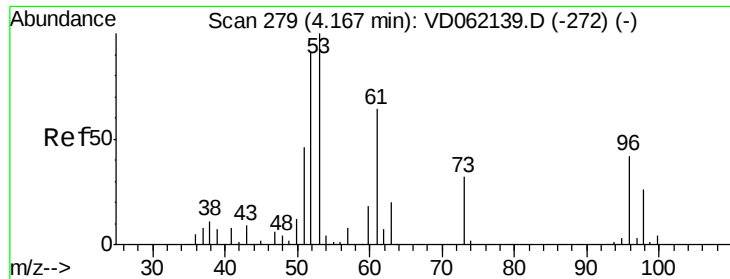
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 237.824 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

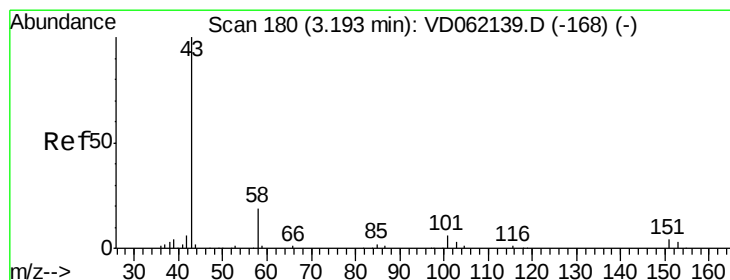
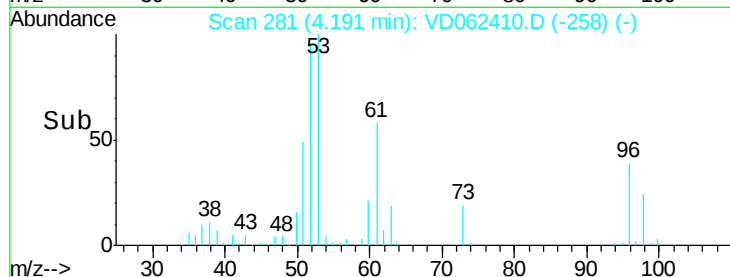
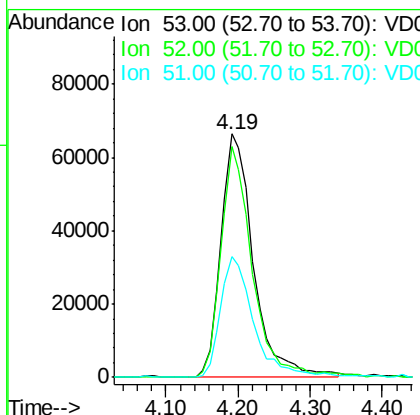
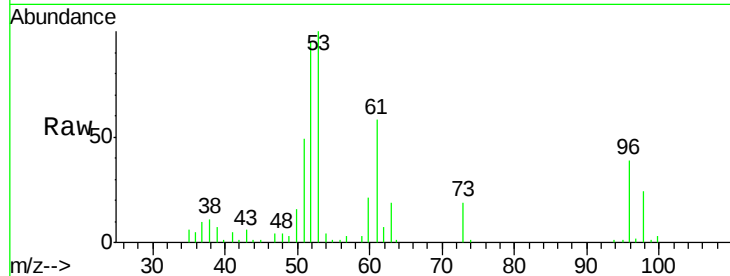
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	207704
Ion Ratio	Lower	Upper	
53	100		
52	94.9	65.0	97.4
51	49.4	32.6	48.8#

Manual Integrations
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#16

Acetone

Concen: 295.966 ug/l

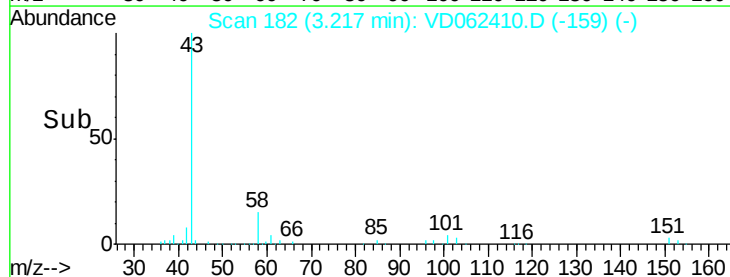
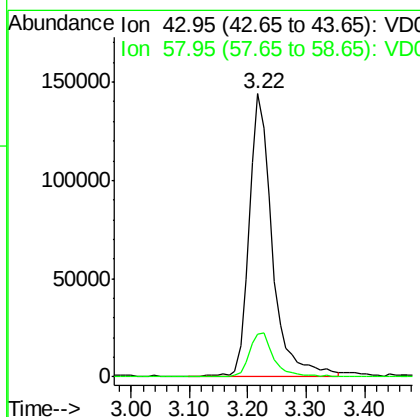
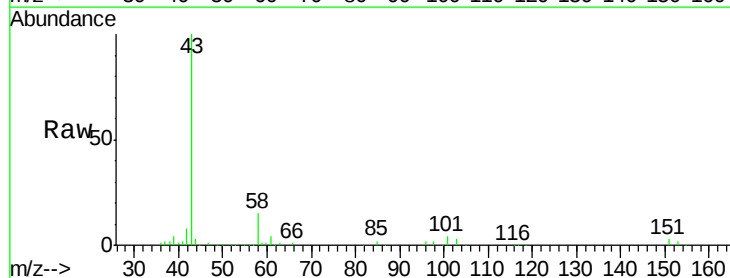
RT: 3.22 min Scan# 182

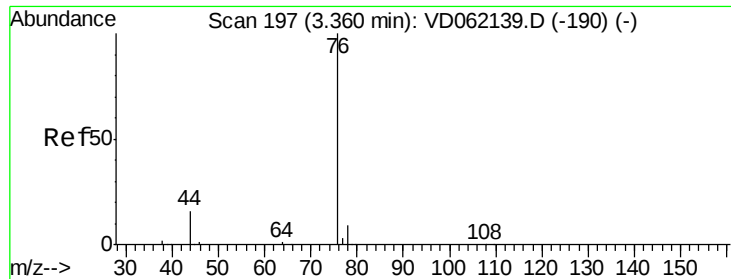
Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	43	Resp:	404019
Ion Ratio	Lower	Upper	
43	100		
58	15.1	19.9	29.9#





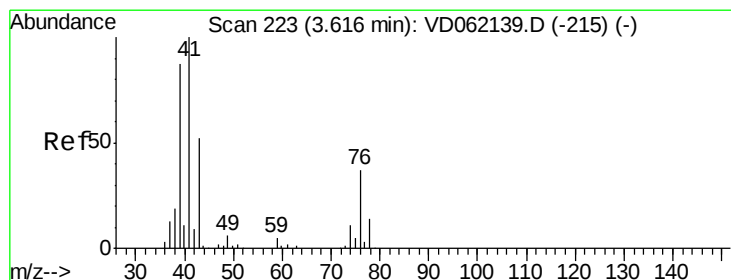
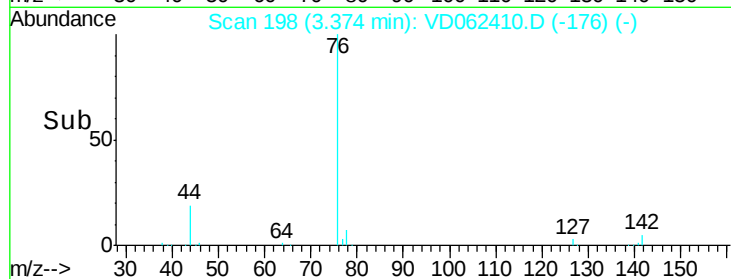
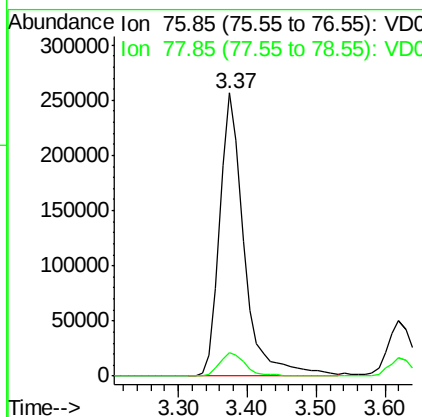
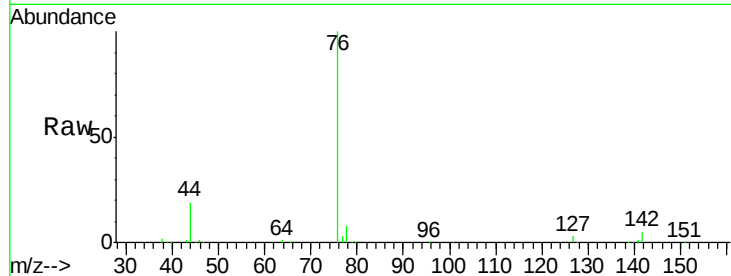
#17
Carbon Disulfide
Concen: 41.180 ug/l
RT: 3.37 min Scan# 198
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	76	Resp	632688
Ion Ratio	Lower	Upper	
76	100		
78	8.2	7.2	10.8

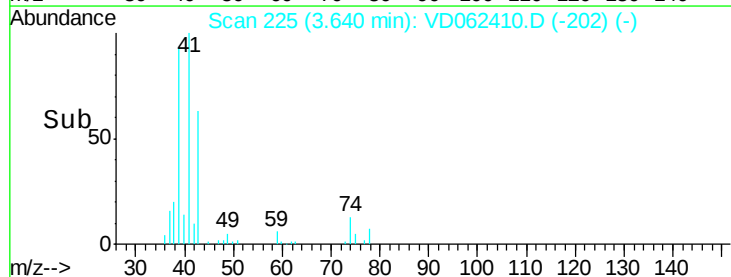
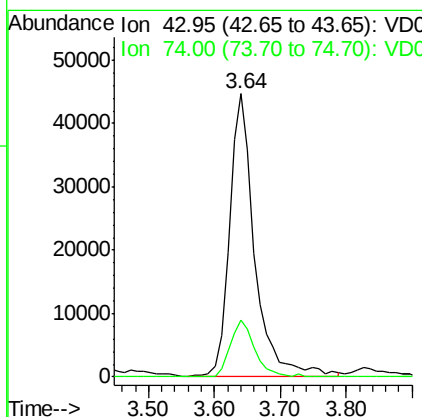
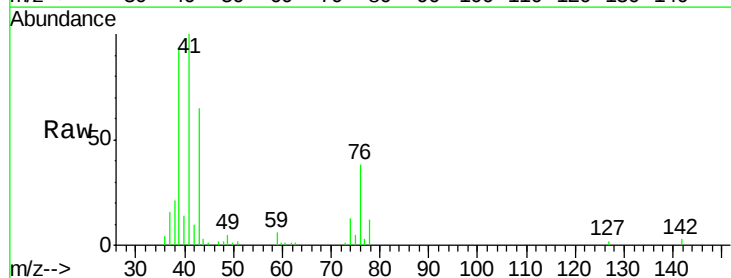
Manual Integrations
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#18
Methyl Acetate
Concen: 49.077 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	43	Resp	119833
Ion Ratio	Lower	Upper	
43	100		
74	20.0	18.0	27.0





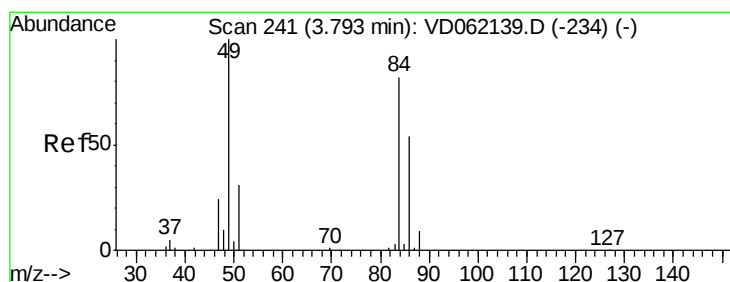
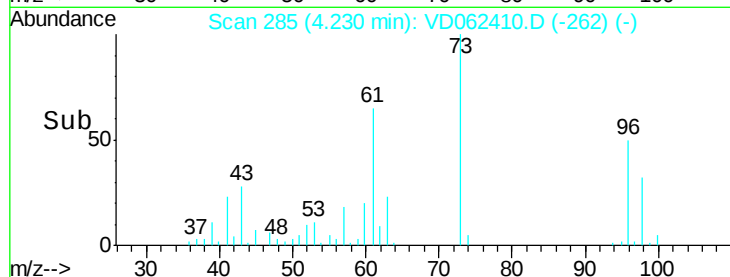
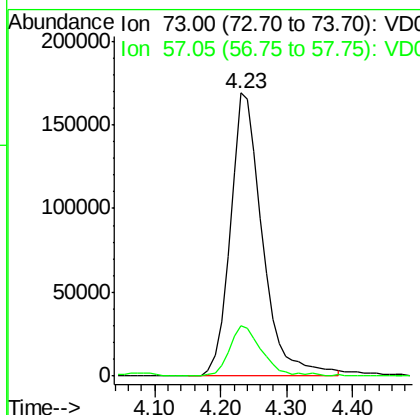
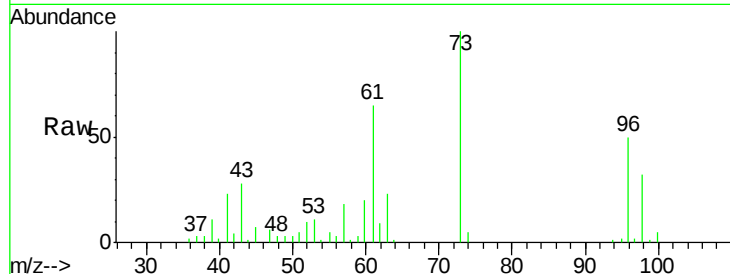
#19
Methvl tert-butvl Ether
Concen: 50.366 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 576577
Ion Ratio Lower Upper
73 100
57 18.0 16.3 24.5

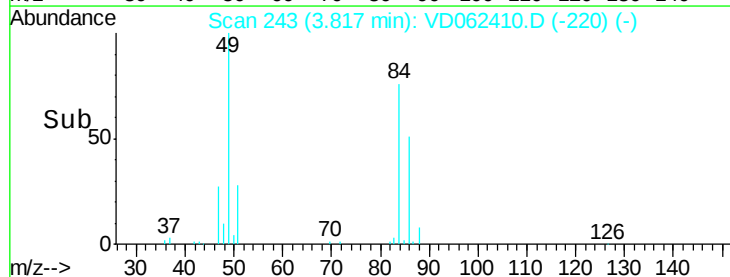
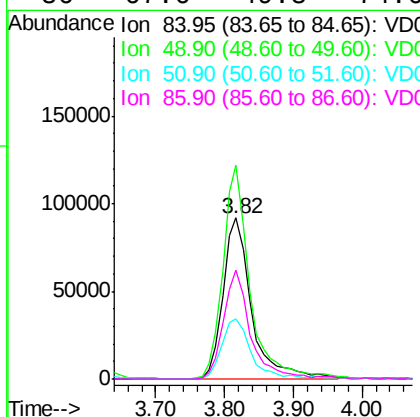
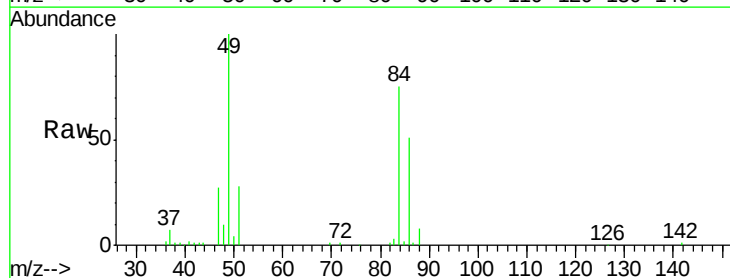
Manual Integrations
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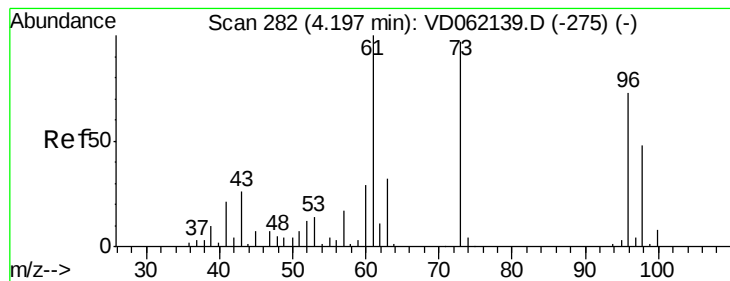
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5/17/2019 3:12:06 PM



#20
Methylene Chloride
Concen: 46.202 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion: 84 Resp: 263342
Ion Ratio Lower Upper
84 100
49 132.7 94.0 141.0
51 37.7 29.0 43.4
86 67.6 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 49.434 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 293789

Ion Ratio Lower Upper

96 100

61 140.5 104.4 156.6

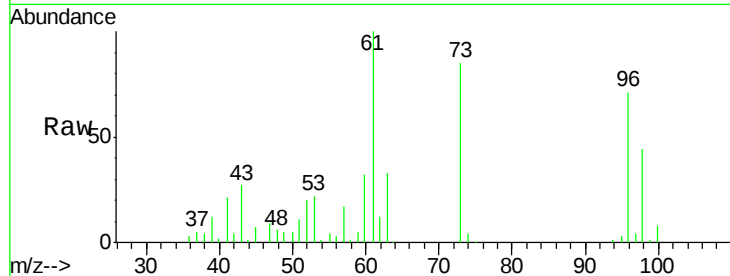
98 62.4 51.8 77.8

Manual Integrations

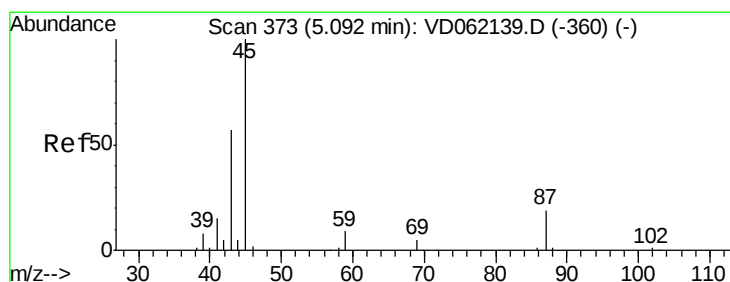
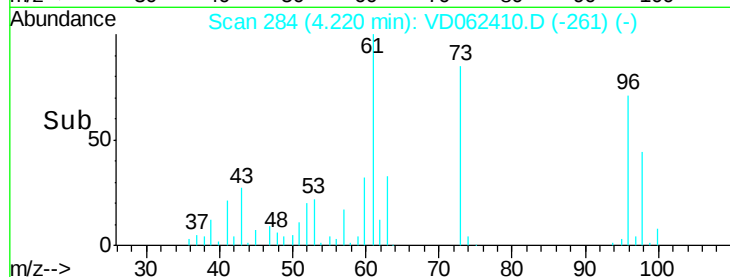
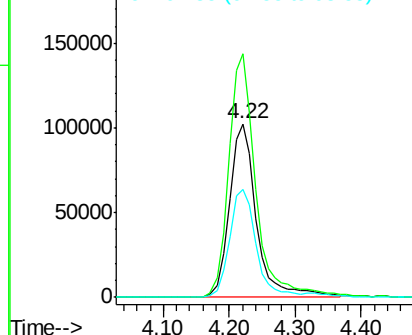
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 49.174 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion: 45 Resp: 812595

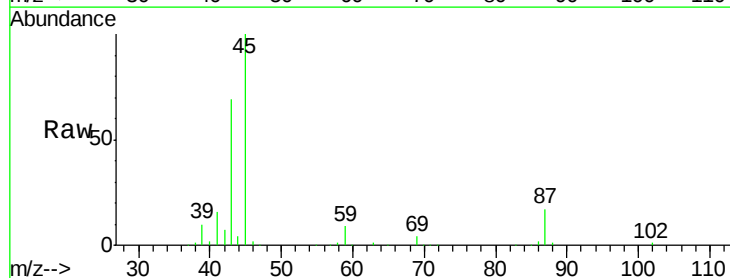
Ion Ratio Lower Upper

45 100

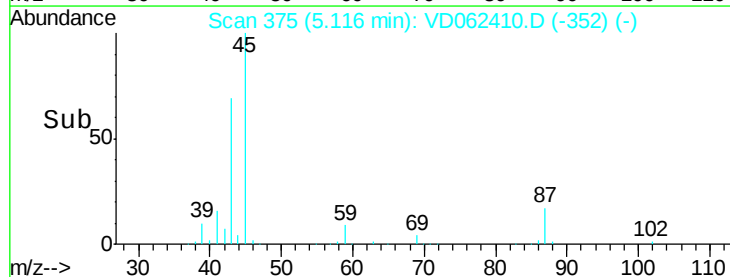
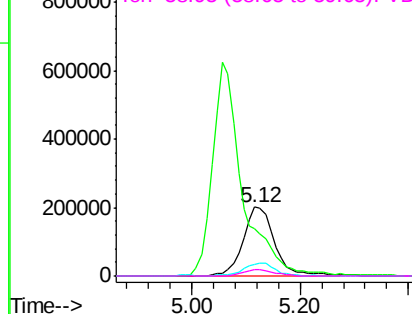
43 69.0 46.2 69.2

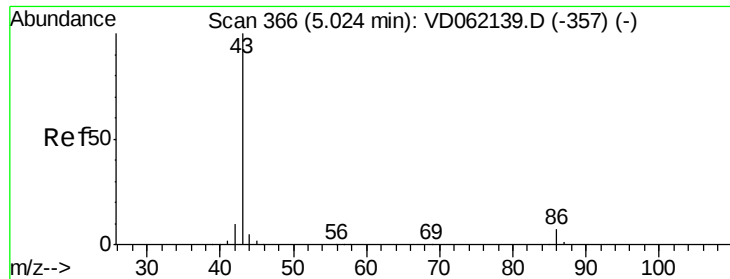
87 17.3 15.9 23.9

59 8.8 7.9 11.9



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





#23

Vinyl Acetate

Concen: 271.003 ug/l

RT: 5.06 min Scan# 369

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2362791

Ion Ratio Lower Upper

43 100

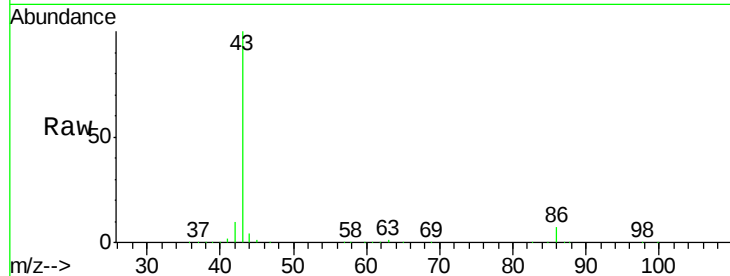
86 6.6 6.4 9.6

Manual Integrations

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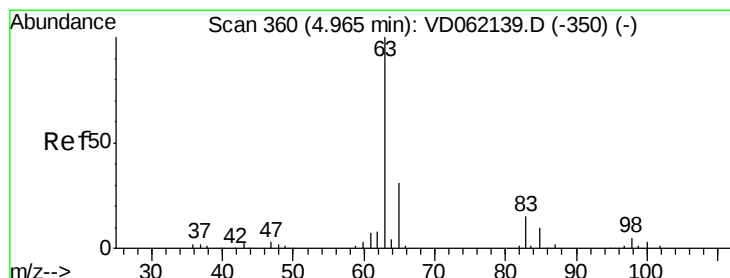
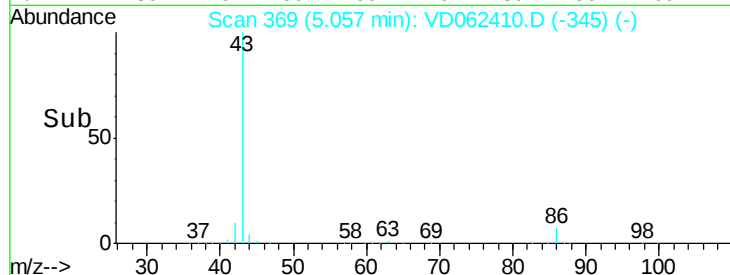
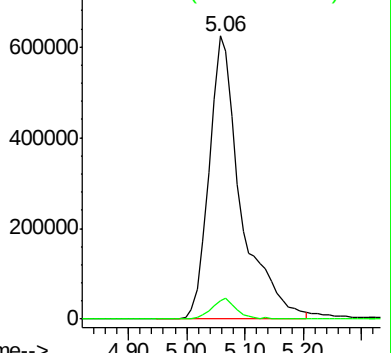
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.436 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

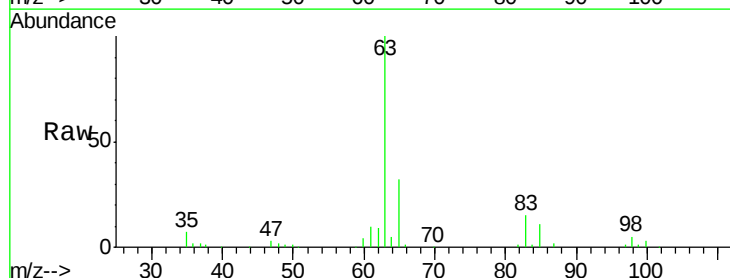
Tgt Ion: 63 Resp: 492816

Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

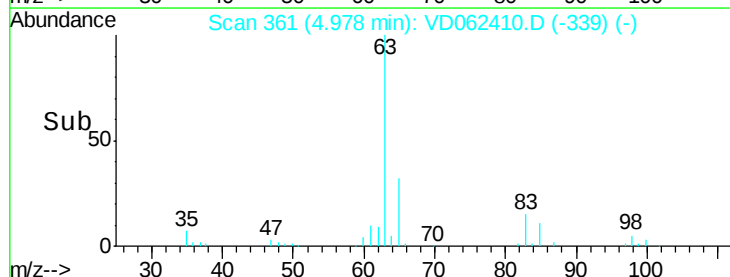
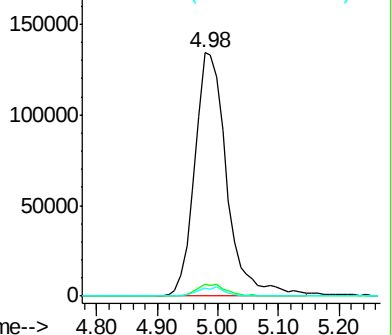
100 3.2 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 269.811 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 401743

Ion Ratio Lower Upper

43 100

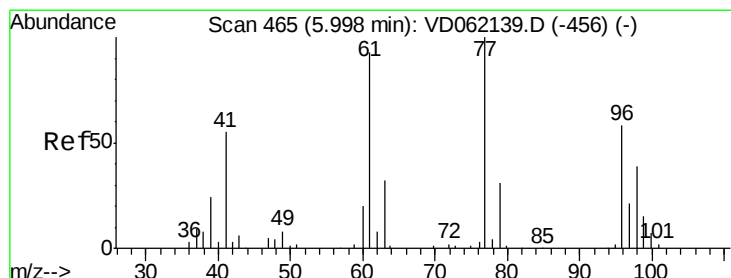
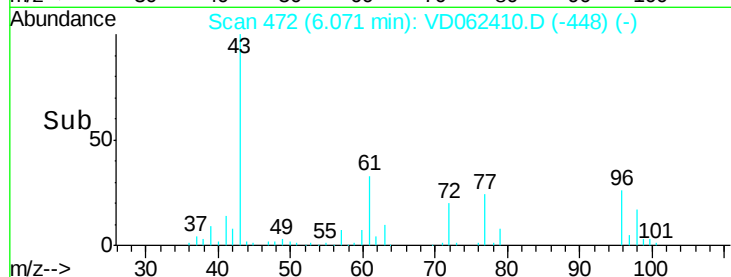
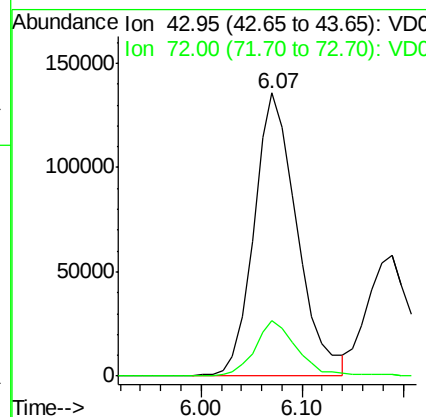
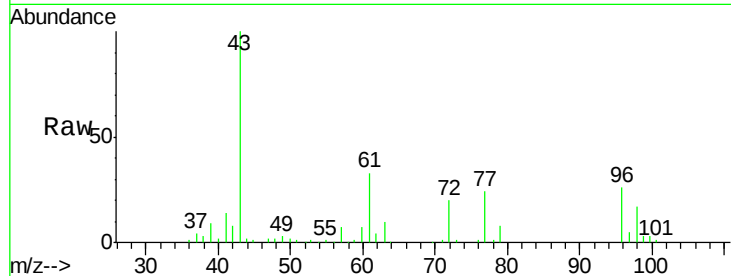
72 19.5 16.2 24.4

Manual Integrations

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5/17/2019 3:12:06 PM



#26

2,2-Dichloropropane

Concen: 56.014 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD062410.D

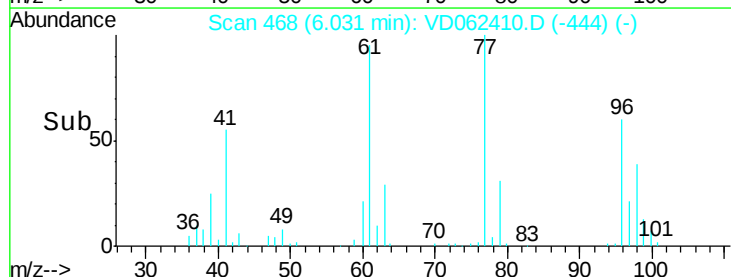
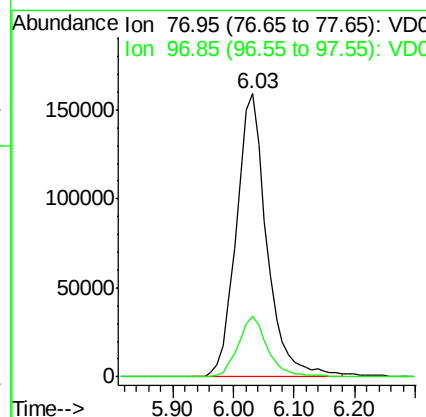
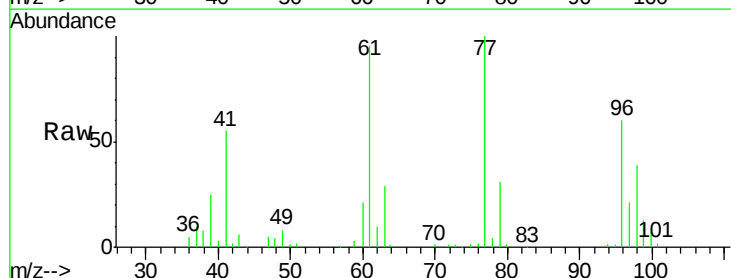
Acq: 16 May 2019 11:29

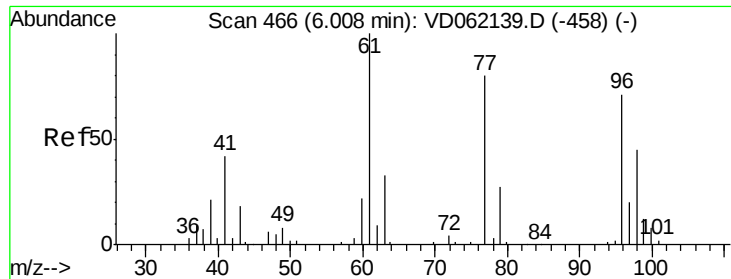
Tgt Ion: 77 Resp: 556230

Ion Ratio Lower Upper

77 100

97 21.5 11.9 35.9





#27

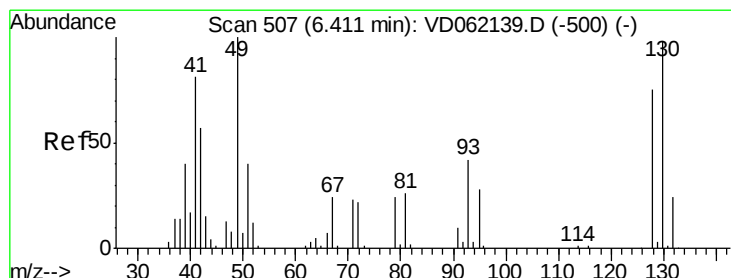
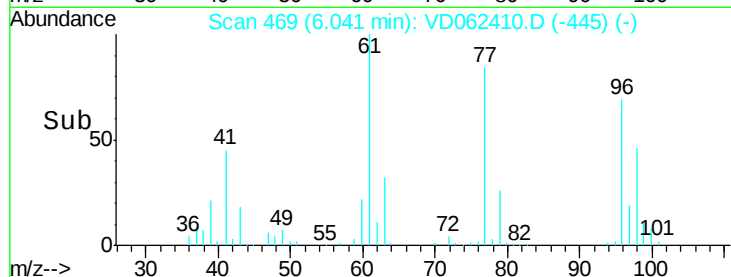
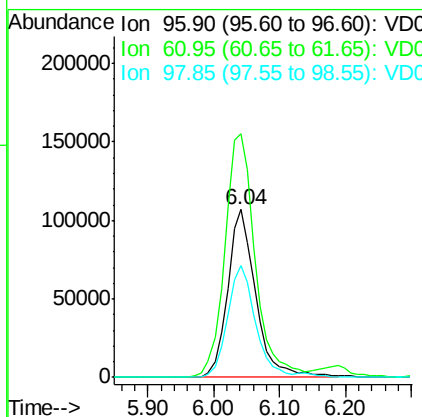
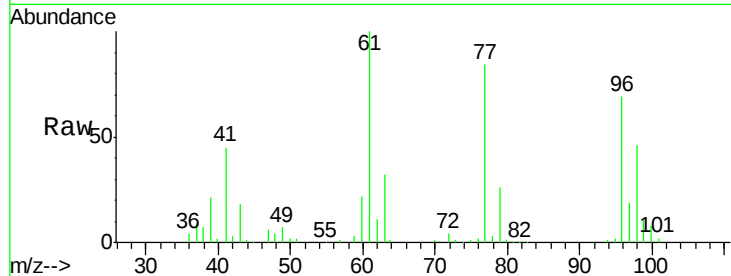
cis-1,2-Dichloroethene
Concen: 47.991 ug/l
RT: 6.04 min Scan# 469
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	319249		
61	145.3	0.0	279.8	
98	66.7	0.0	136.0	

Manual Integrations
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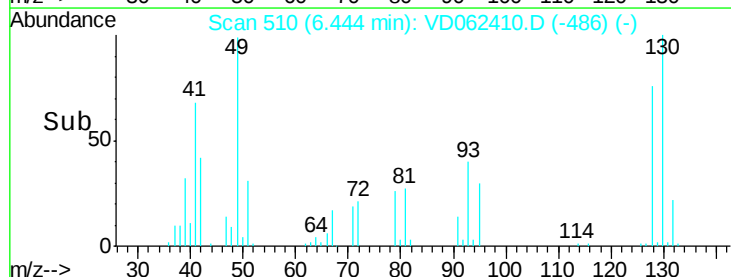
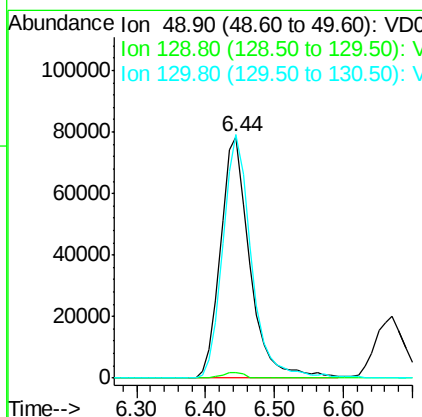
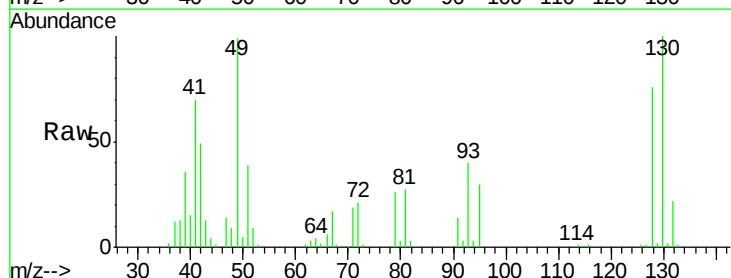
MMDadoda
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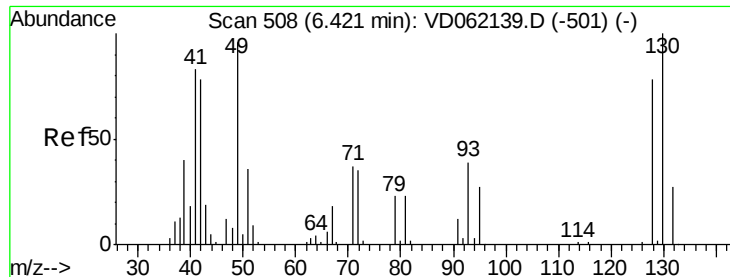


#28

Bromochloromethane
Concen: 58.902 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	231018		
129	2.4	0.0	6.6	
130	101.0	86.7	130.1	





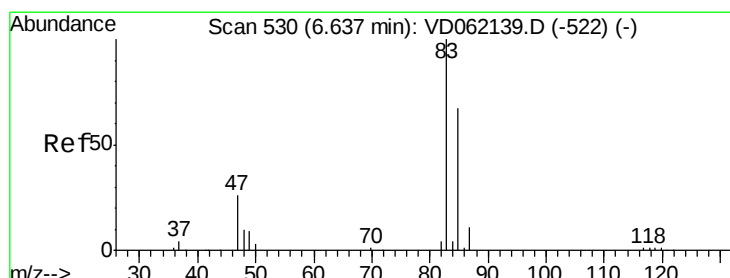
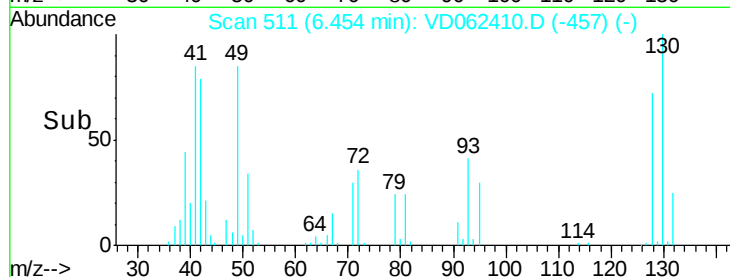
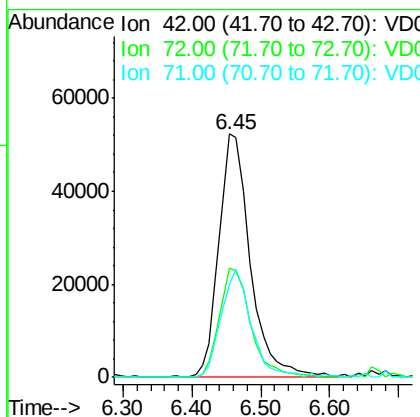
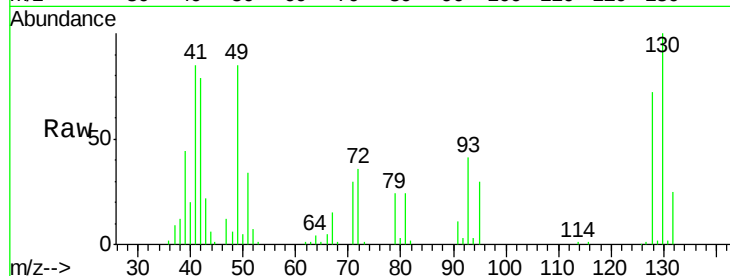
#29
Tetrahydrofuran
Concen: 242.004 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	37.8	56.6
71	42.1	36.7	55.1

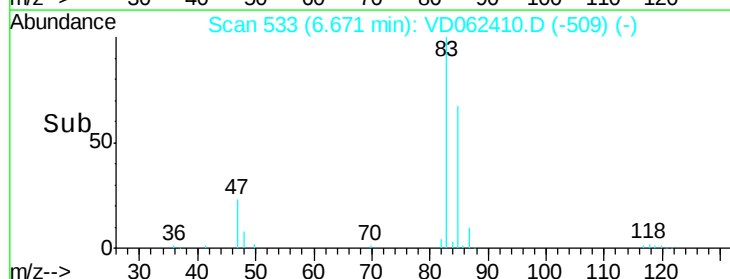
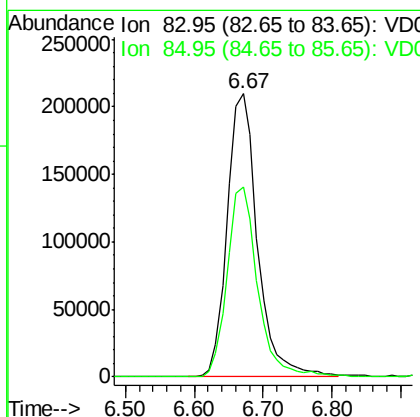
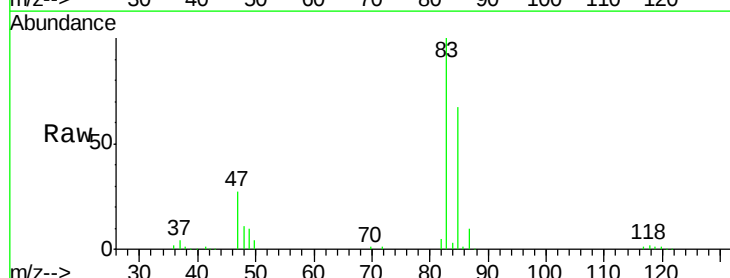
Manual Integrations
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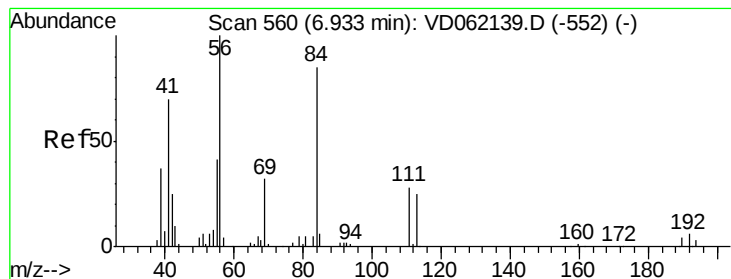
MMDadoda
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#30
Chloroform
Concen: 53.280 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.7	77.5





#31

Cyclohexane

Concen: 45.447 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

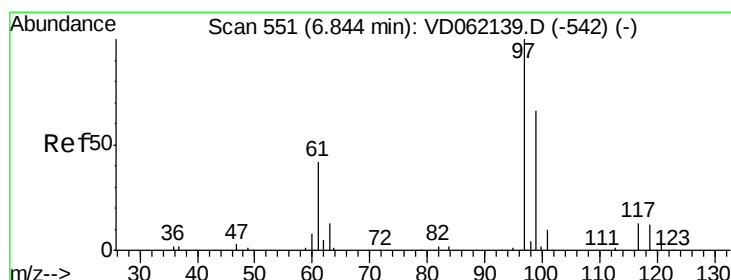
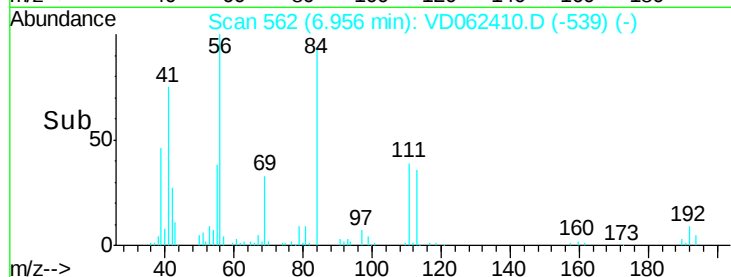
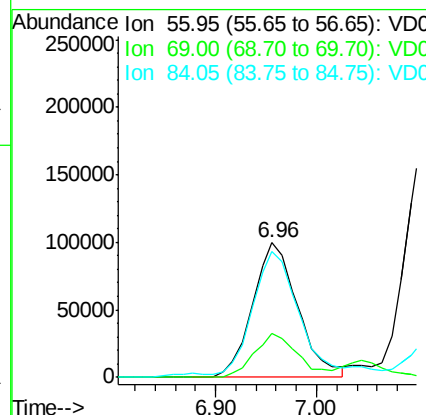
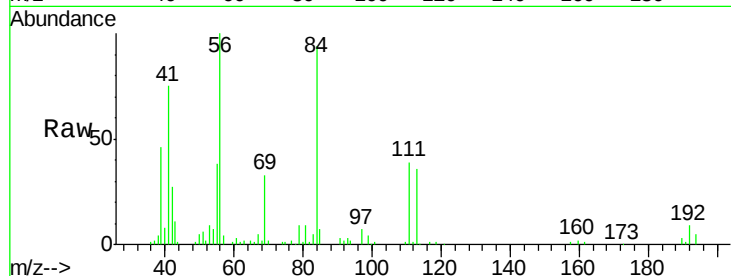
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	310390
Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.8	38.6
84	93.8	72.2	108.4

Manual Integrations
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5/17/2019 3:12:06 PM



#32

1,1,1-Trichloroethane

Concen: 55.363 ug/l

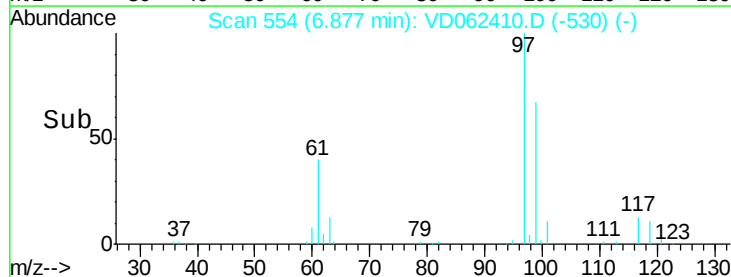
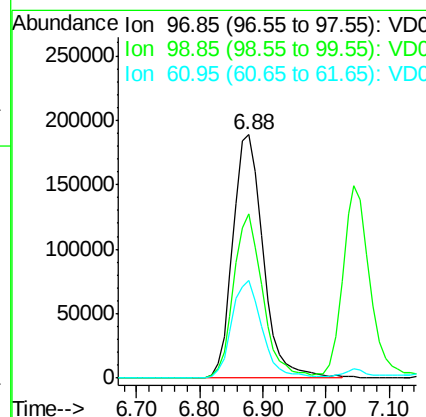
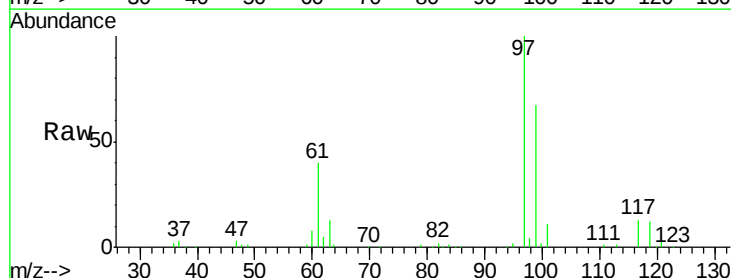
RT: 6.88 min Scan# 554

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	97	Resp:	628688
Ion	Ratio	Lower	Upper
97	100		
99	67.2	52.2	78.2
61	40.1	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 44.583 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 290210

Ion Ratio Lower Upper

65 100

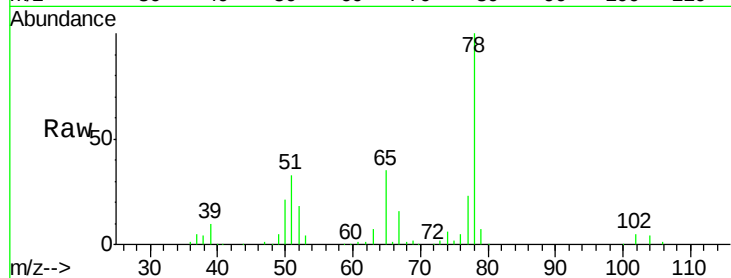
67 44.4 0.0 98.0

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5/17/2019 3:12:06 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

120000

100000

80000

60000

40000

20000

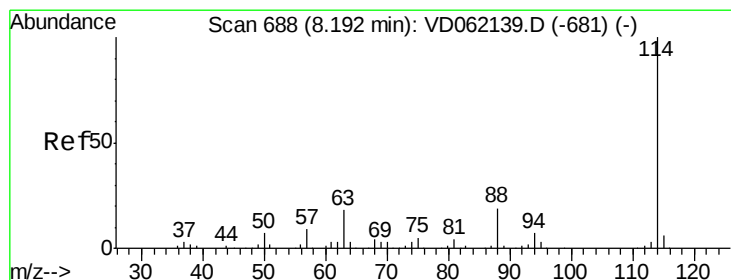
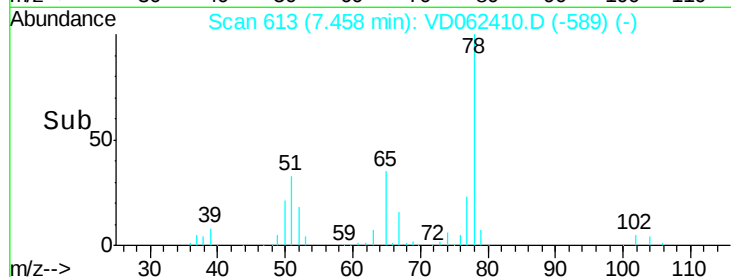
0

7.40

7.50

7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

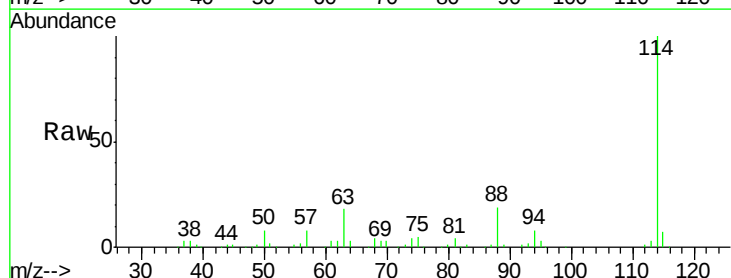
Tgt Ion: 114 Resp: 983746

Ion Ratio Lower Upper

114 100

63 18.1 0.0 32.4

88 18.7 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

300000

200000

100000

0

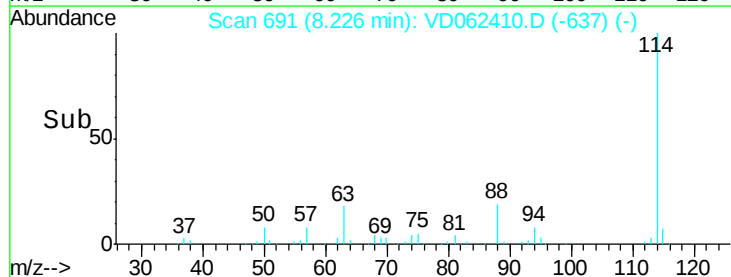
8.10

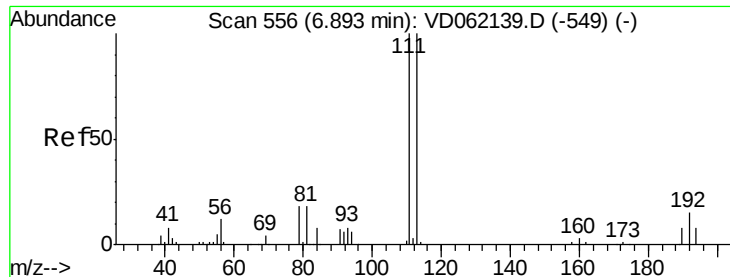
8.20

8.30

8.40

Time-->





#35

Dibromofluoromethane

Concen: 42.154 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

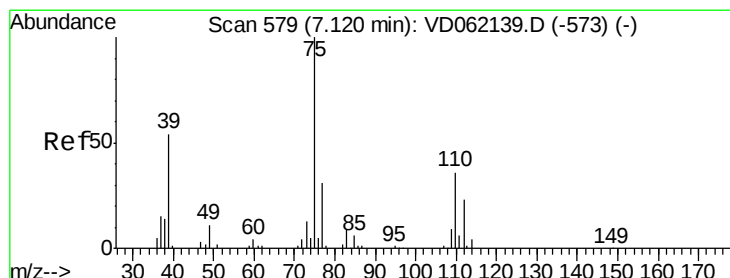
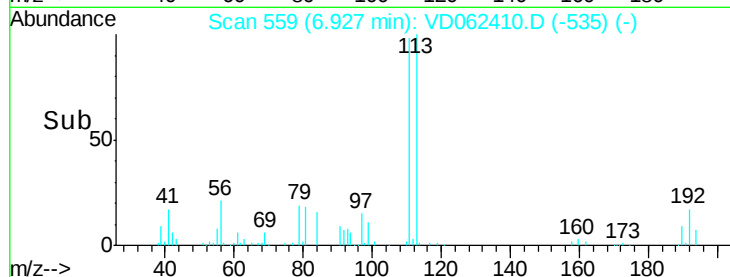
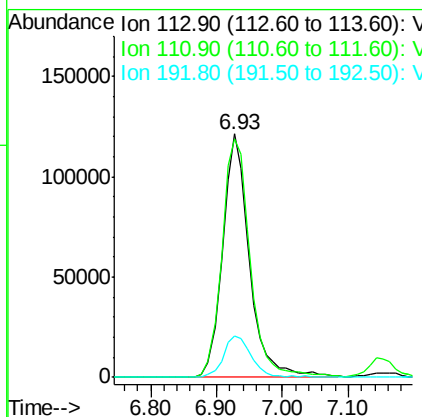
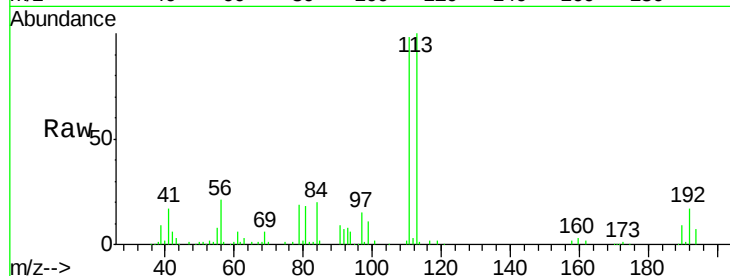
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	344071
Ion Ratio	Lower	Upper	
113	100		
111	97.9	78.5	117.7
192	17.2	13.0	19.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 52.780 ug/l

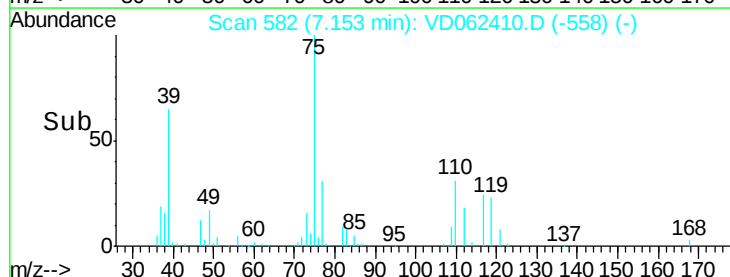
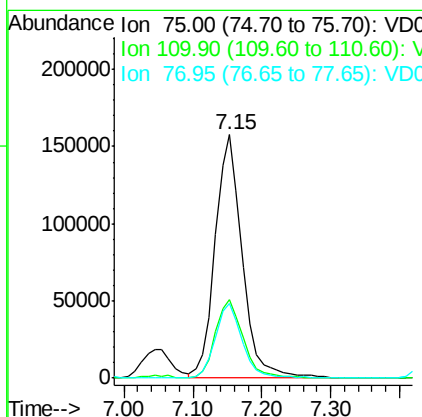
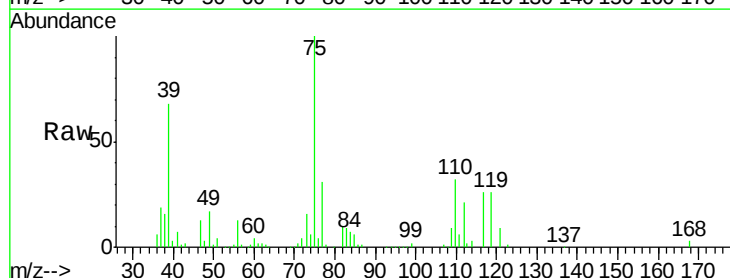
RT: 7.15 min Scan# 582

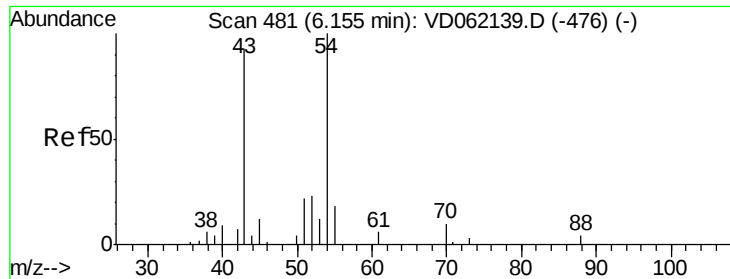
Delta R.T. 0.03 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	75	Resp:	425715
Ion Ratio	Lower	Upper	
75	100		
110	32.4	19.1	57.1
77	30.8	25.6	38.4





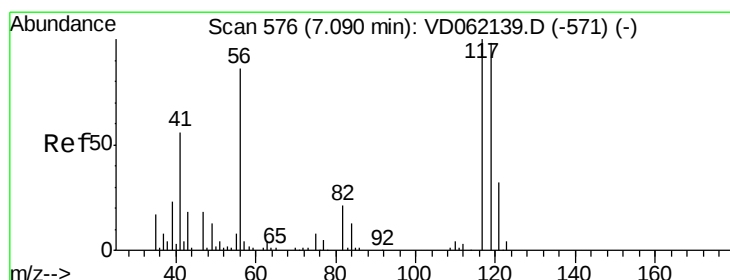
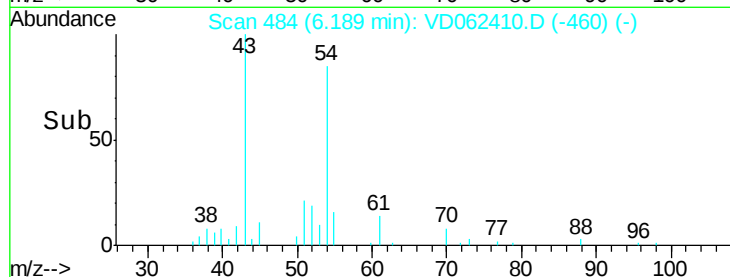
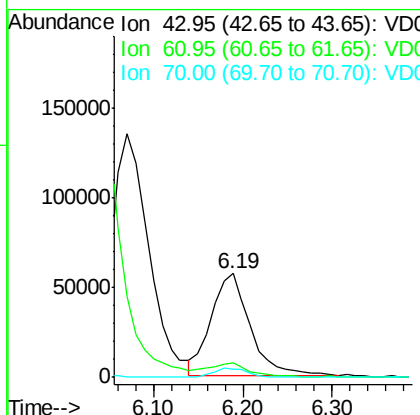
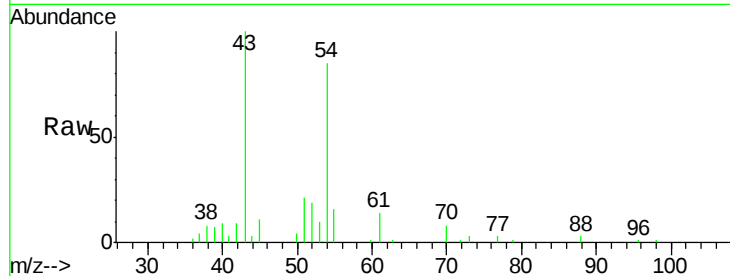
#37
Ethyl Acetate
Concen: 50.933 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	14.7	22.1#
70	7.6	7.8	11.6#

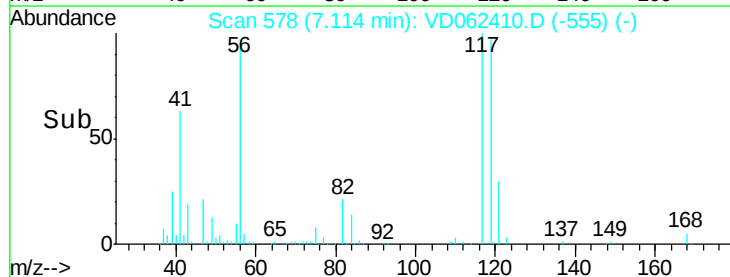
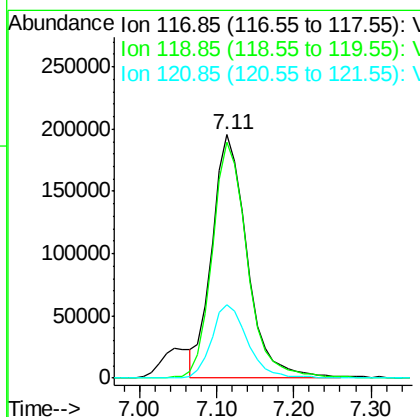
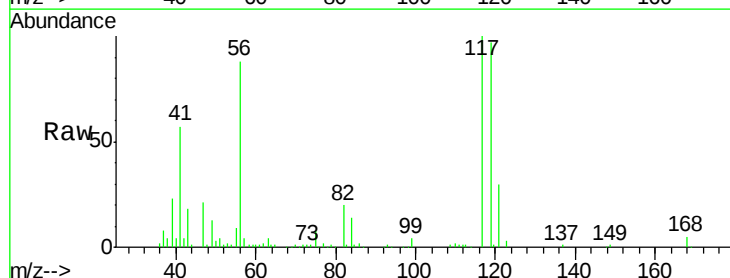
Manual Integrations
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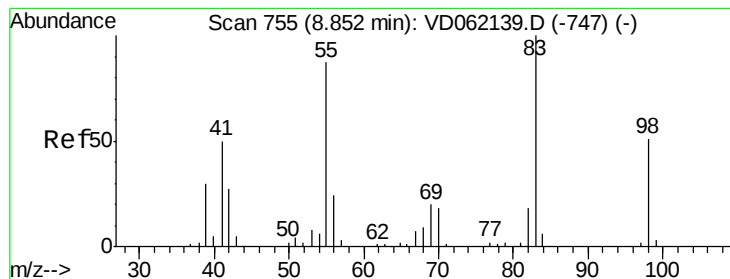
MMDadoda
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#38
Carbon Tetrachloride
Concen: 56.114 ug/l m
RT: 7.11 min Scan# 578
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	75.8	113.8
121	29.9	25.9	38.9





#39

Methvlcvclohexane

Concen: 45.190 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

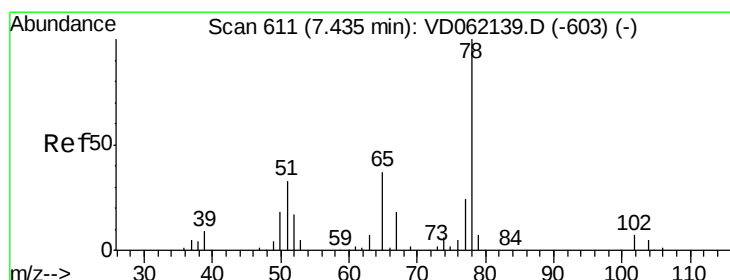
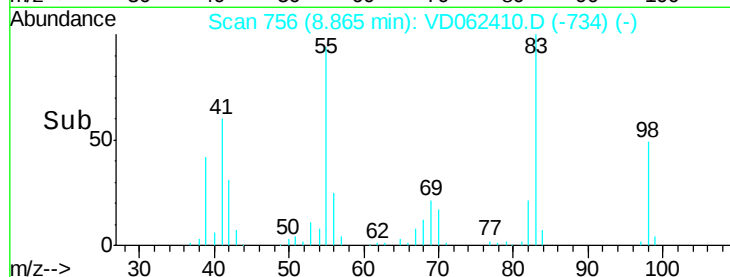
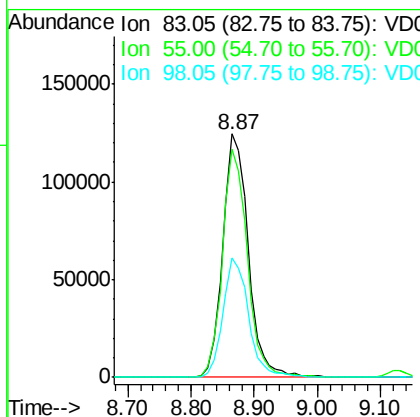
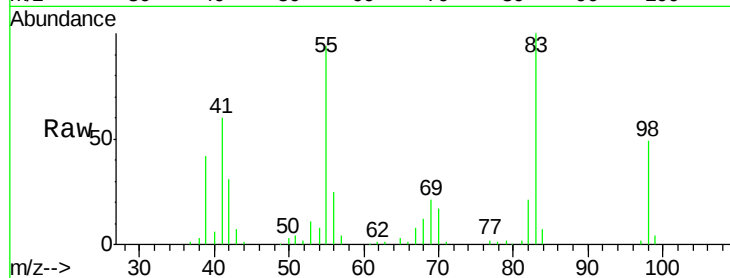
VSTDCCC050

Tot Ion: 83 Resp: 349230

Ion	Ratio	Lower	Upper
83	100		
55	93.6	68.2	102.4
98	49.1	38.2	57.4

Manual Integrations
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#40

Benzene

Concen: 45.973 ug/l

RT: 7.46 min Scan# 613

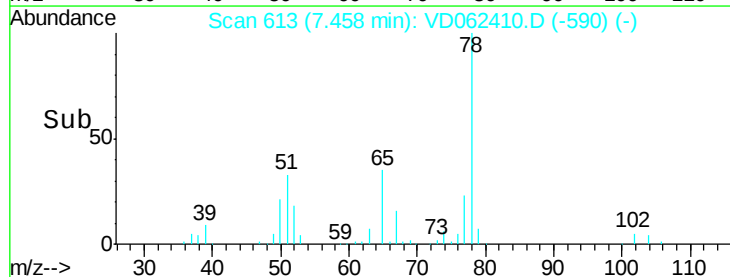
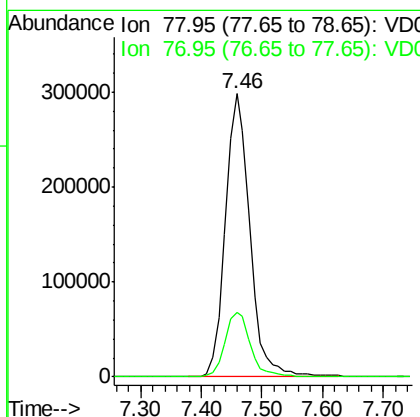
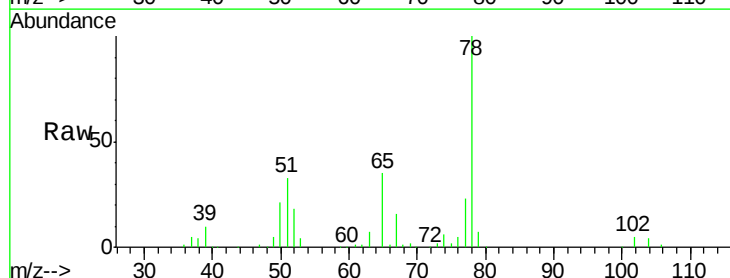
Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion: 78 Resp: 837328

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.7	29.5





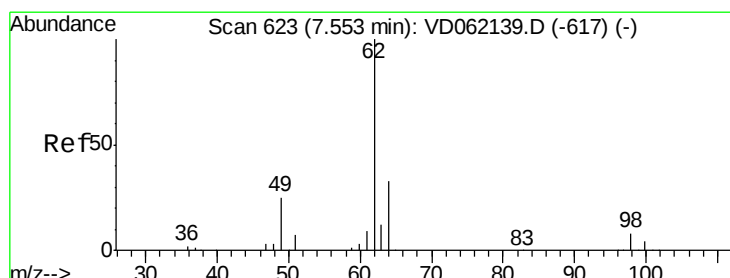
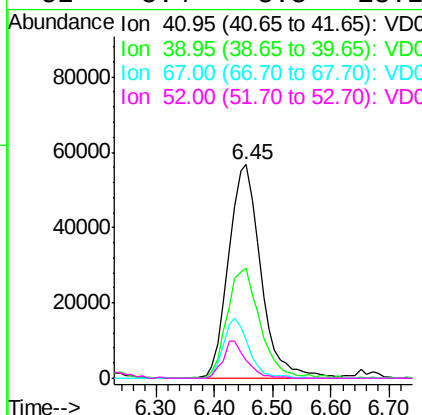
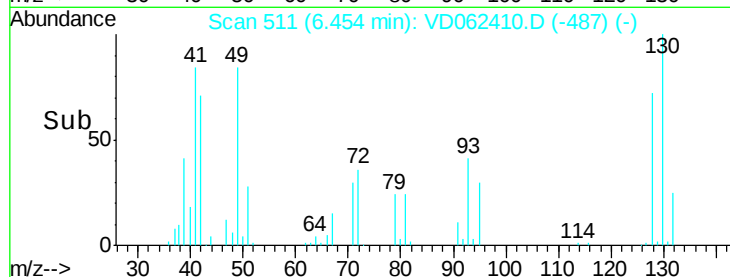
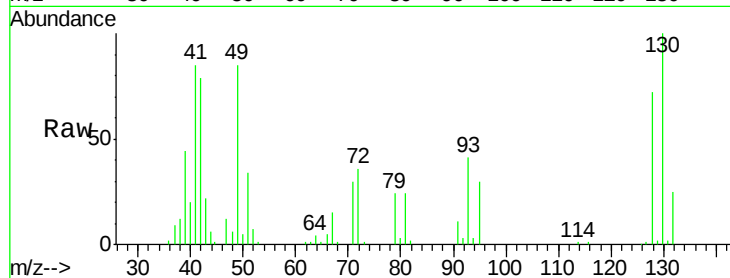
#41
Methacrylonitrile
Concen: 52.362 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	51.4	34.1	51.1#	
67	17.9	23.8	35.6#	
52	8.4	8.8	13.2#	

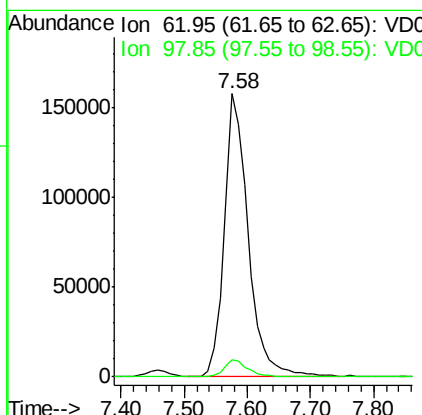
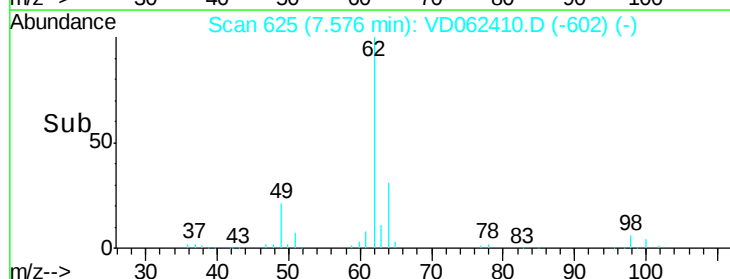
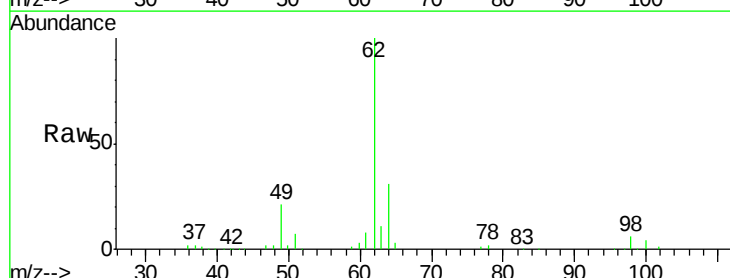
Manual Integrations
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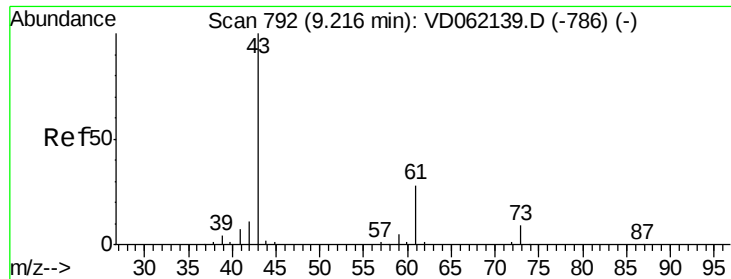
MMDadoda
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#42
1,2-Dichloroethane
Concen: 53.247 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	6.1	0.0	17.8	





#43

Isopropyl Acetate

Concen: 51.468 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

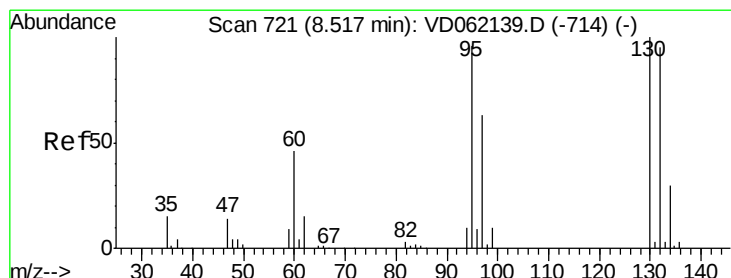
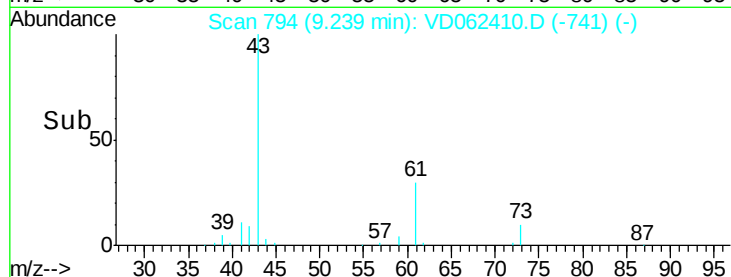
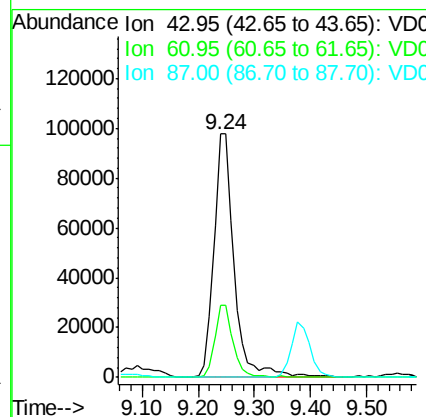
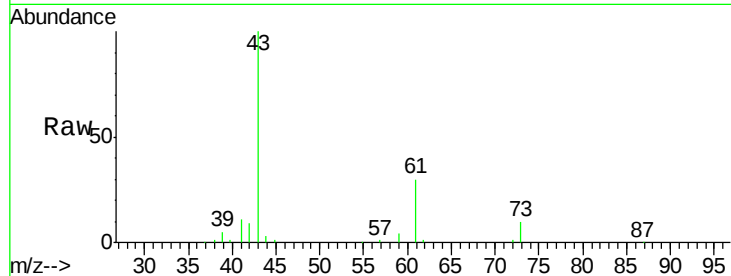
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	249682
Ion	Ratio	Lower	Upper
43	100		
61	29.5	25.1	37.7
87	0.3	0.0	0.0

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#44

Trichloroethene

Concen: 46.541 ug/l

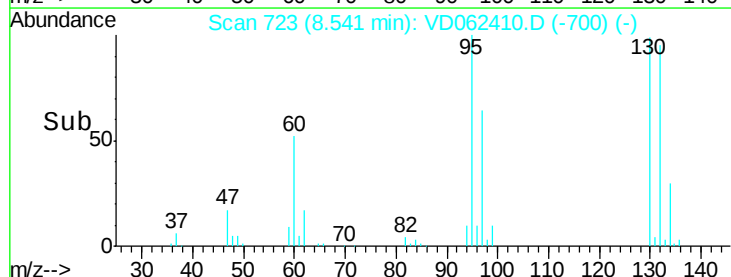
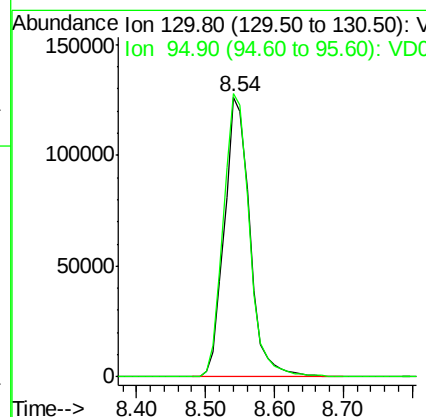
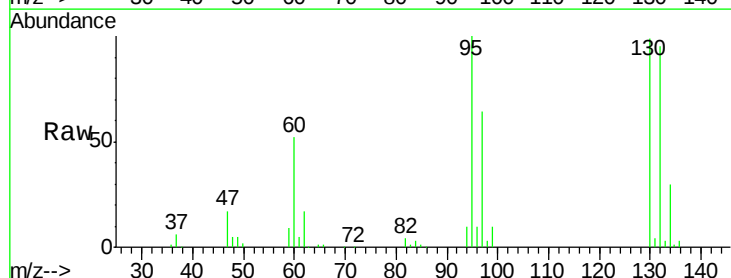
RT: 8.54 min Scan# 723

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	130	Resp:	323013
Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	174.0





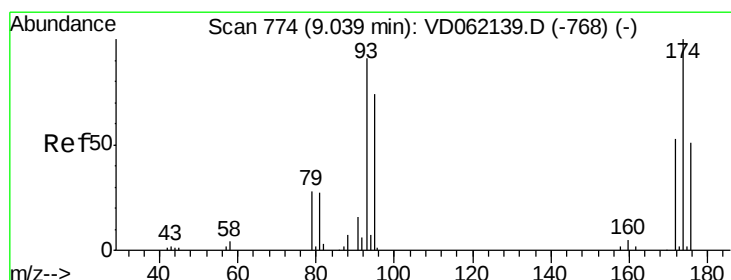
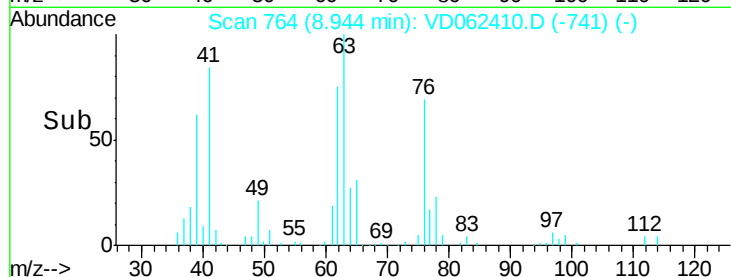
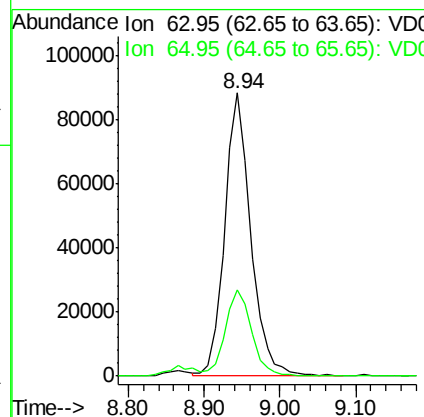
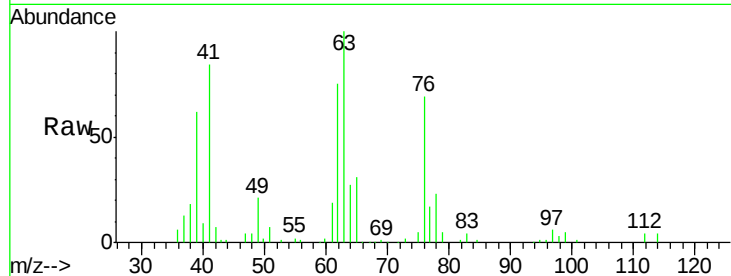
#45
 1,2-Dichloropropane
 Concen: 46.974 ug/l
 RT: 8.94 min Scan# 764
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 211622
 Ion Ratio Lower Upper
 63 100
 65 30.6 23.8 35.6

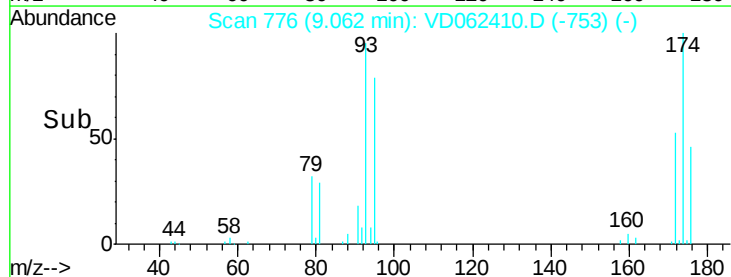
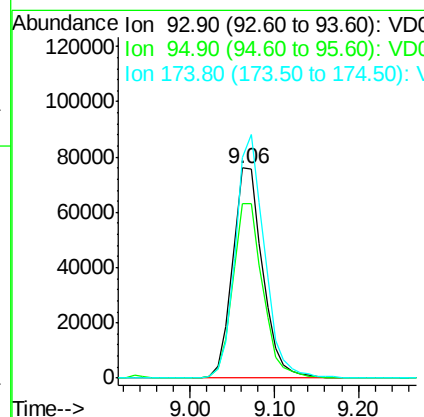
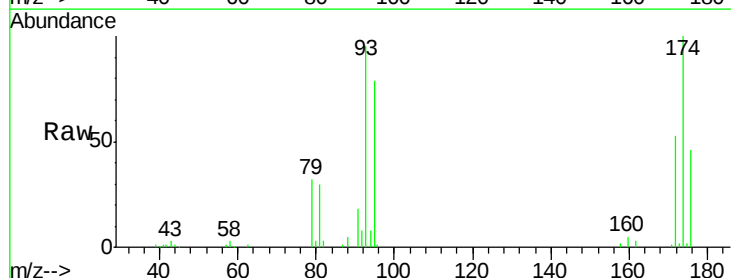
Manual Integrations
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#46
 Dibromomethane
 Concen: 51.747 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion: 93 Resp: 189577
 Ion Ratio Lower Upper
 93 100
 95 83.3 64.8 97.2
 174 105.0 79.3 118.9





#47

Bromodichloromethane

Concen: 53.411 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

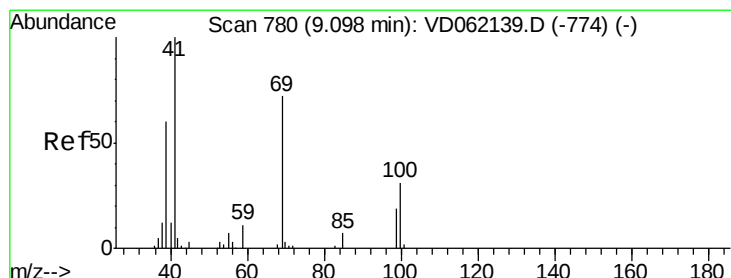
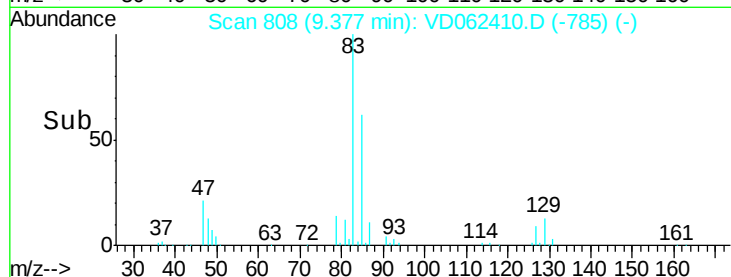
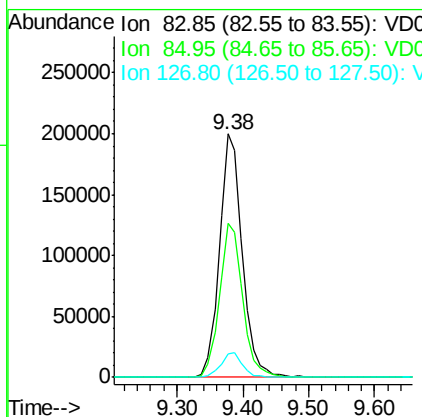
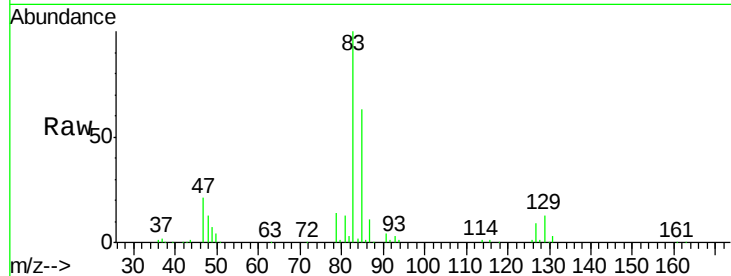
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	478615
Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.9	76.3
127	9.4	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 49.356 ug/l

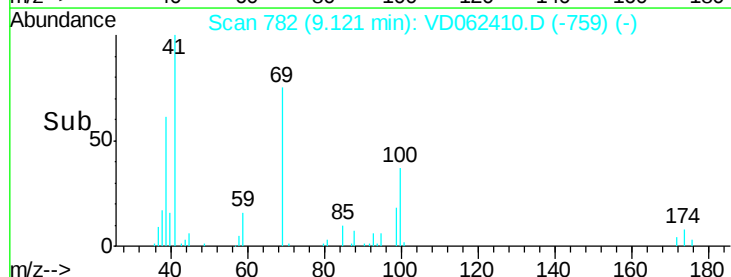
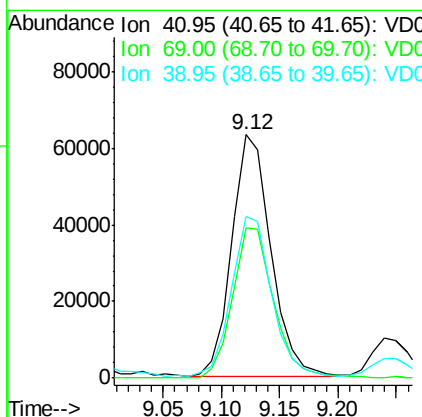
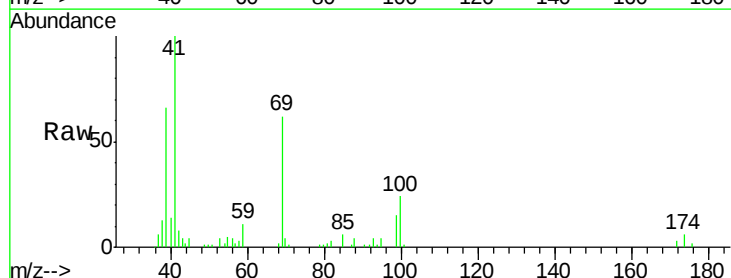
RT: 9.12 min Scan# 782

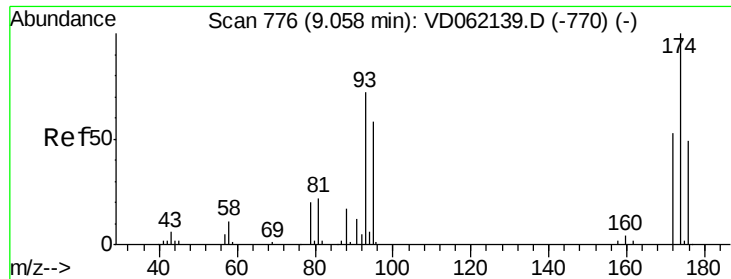
Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	41	Resp:	147480
Ion	Ratio	Lower	Upper
41	100		
69	61.8	64.2	96.2#
39	66.3	46.8	70.2





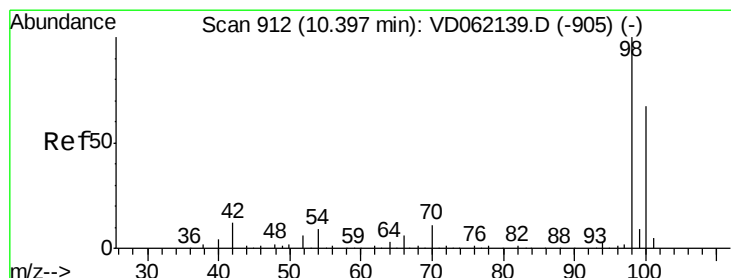
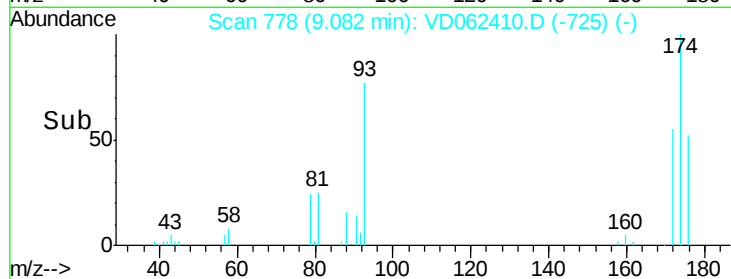
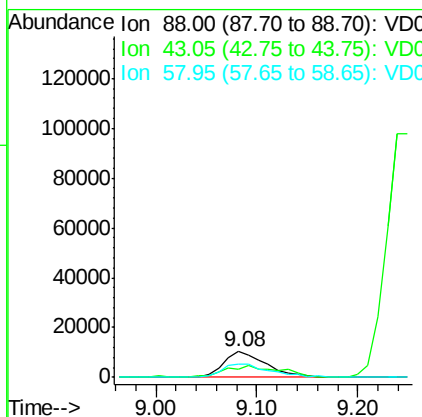
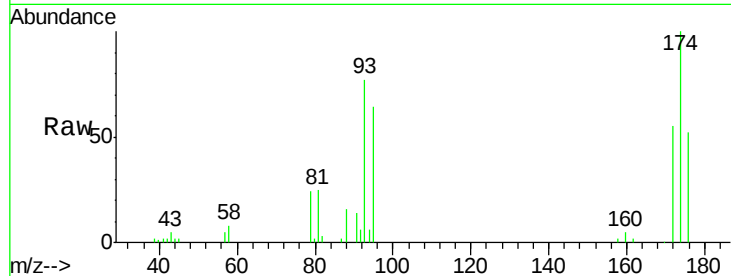
#49
1,4-Dioxane
Concen: 923.625 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	29778
Ion	Ratio	Lower	Upper
88	100		
43	33.7	23.4	35.0
58	50.5	44.0	66.0

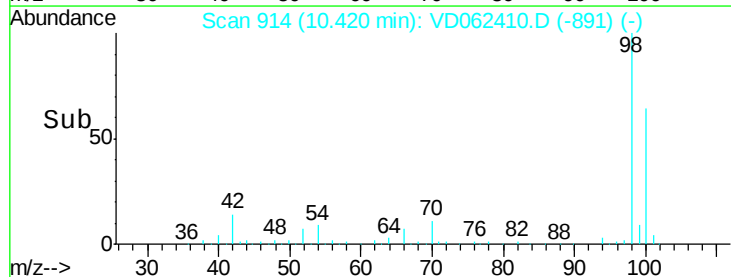
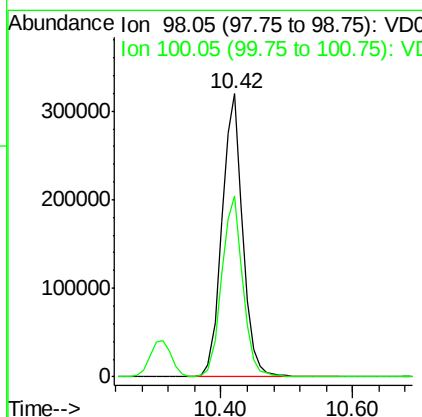
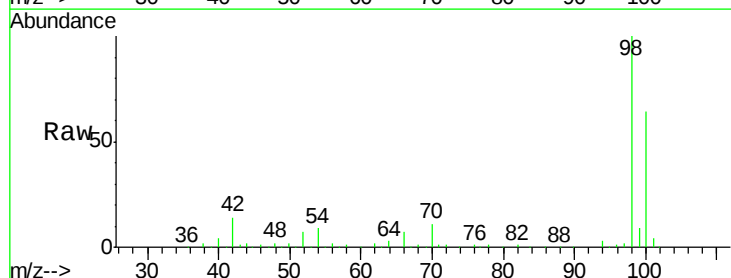
Manual Integrations
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#50
Toluene-d8
Concen: 35.670 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	98	Resp	701986
Ion	Ratio	Lower	Upper
98	100		
100	64.0	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 250.679 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 781708

Ion Ratio Lower Upper

43 100

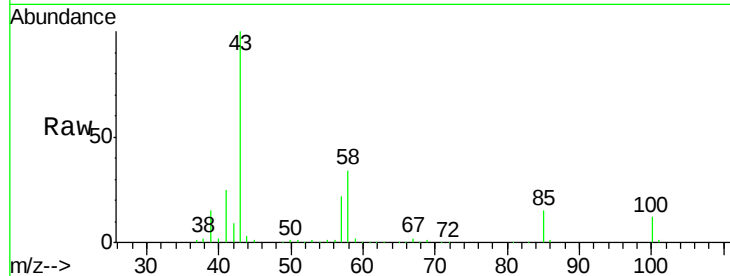
58 34.0 30.4 45.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

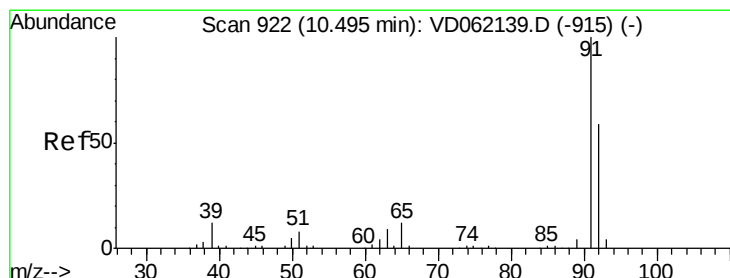
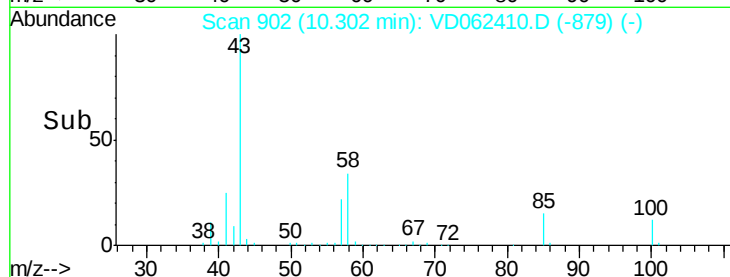
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 48.458 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD062410.D

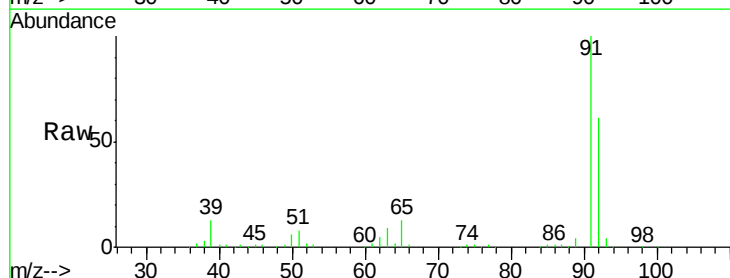
Acq: 16 May 2019 11:29

Tgt Ion: 92 Resp: 574252

Ion Ratio Lower Upper

92 100

91 164.4 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

500000

400000

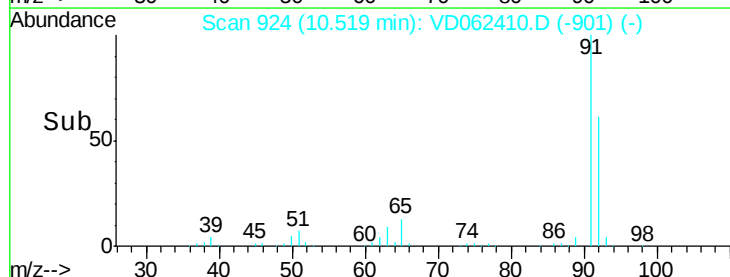
300000

200000

100000

0

Time-->





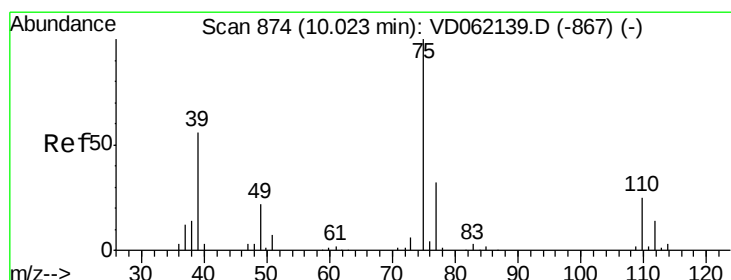
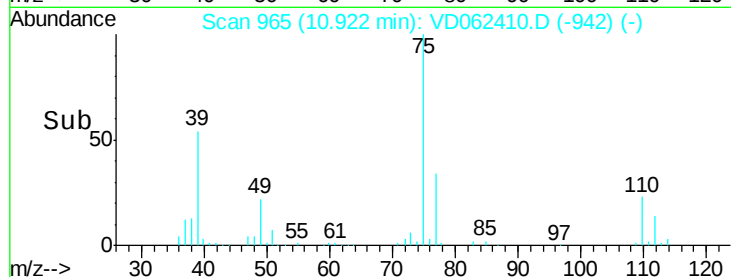
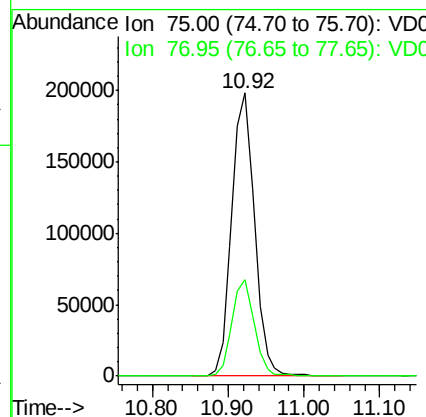
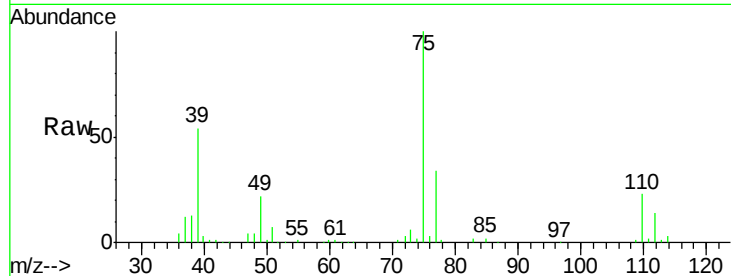
#53
 t-1,3-Dichloropropene
 Concen: 53.441 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.8	38.8

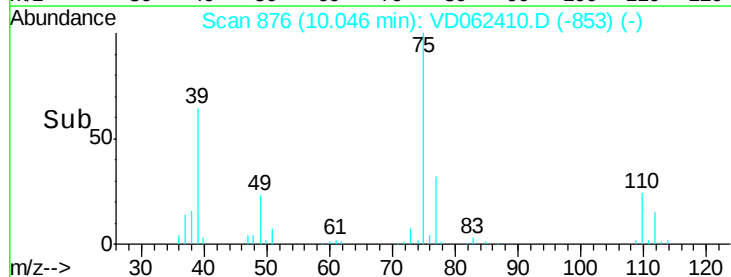
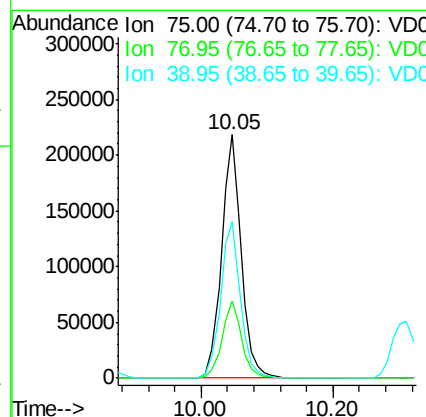
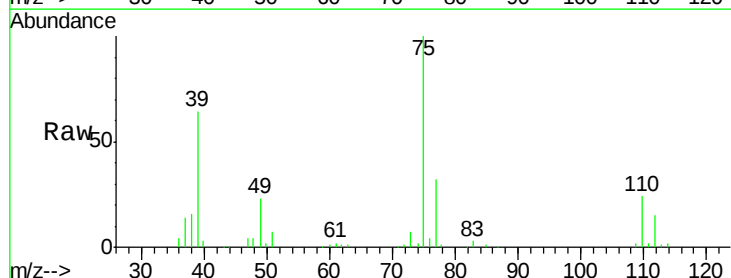
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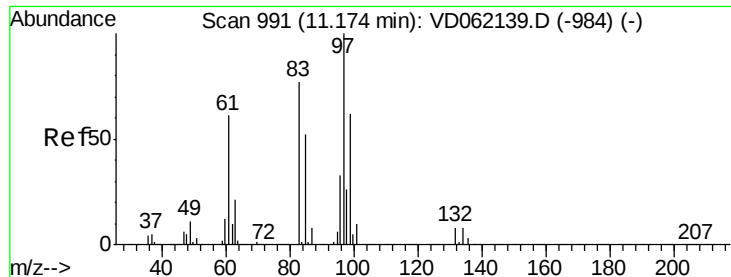
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#54
 cis-1,3-Dichloropropene
 Concen: 53.124 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.5	38.3
39	64.2	39.4	59.2#





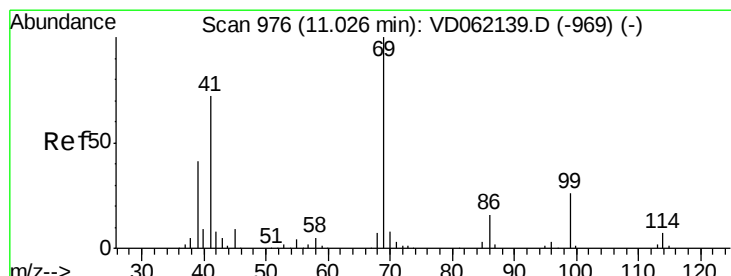
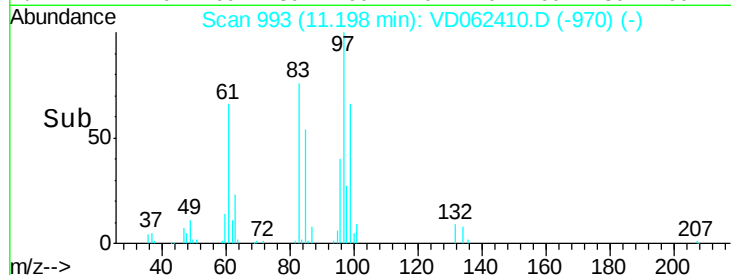
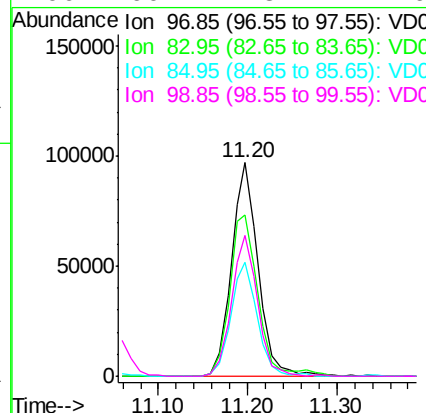
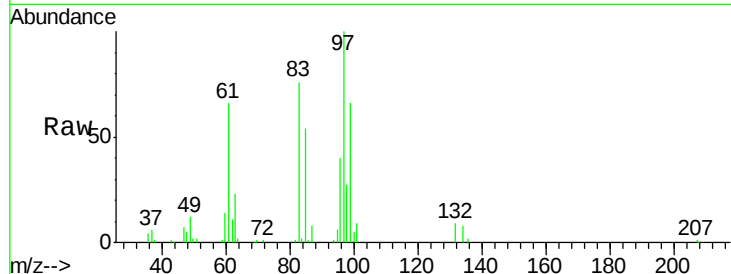
#55
 1,1,2-Trichloroethane
 Concen: 48.407 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	97	Resp	202969
Ion Ratio	Lower	Upper	
97	100		
83	75.6	65.7	98.5
85	53.6	45.6	68.4
99	66.1	48.4	72.6

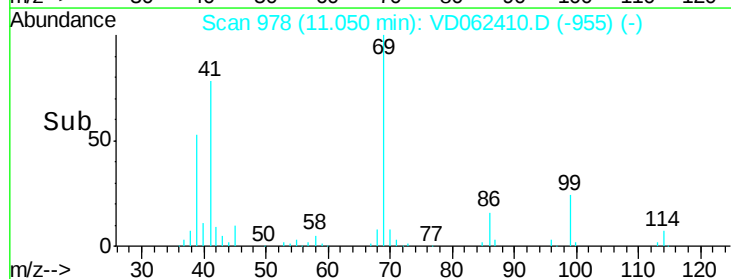
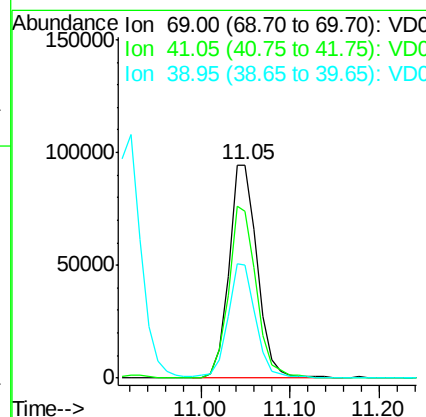
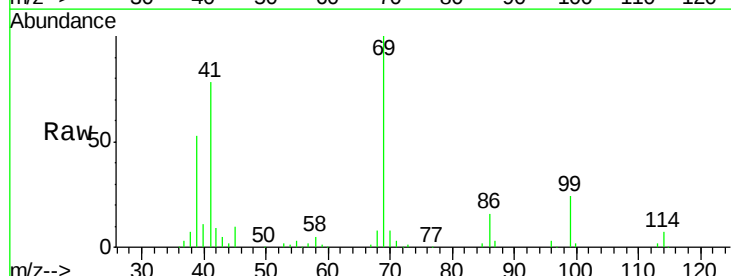
Manual Integrations
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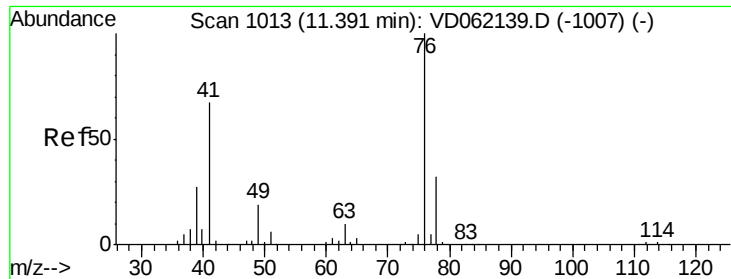
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#56
 Ethyl methacrylate
 Concen: 48.434 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	69	Resp	211034
Ion Ratio	Lower	Upper	
69	100		
41	78.2	56.3	84.5
39	52.7	29.4	44.2#





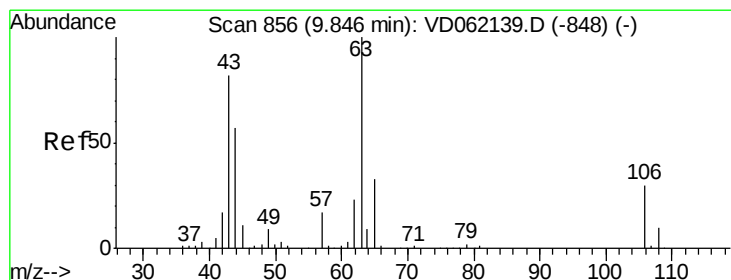
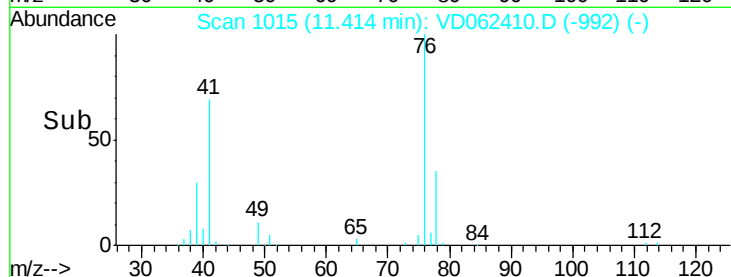
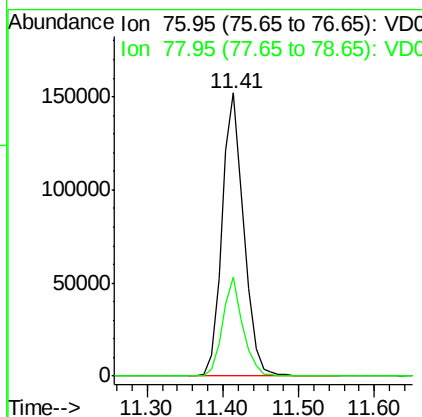
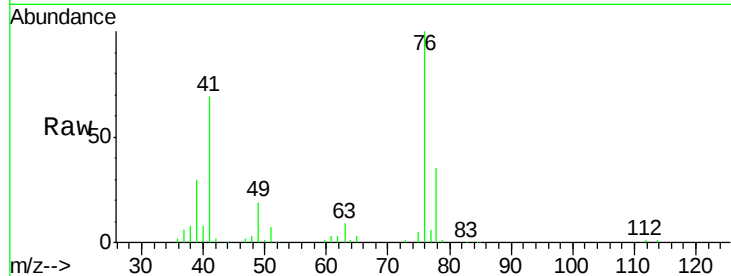
#57
 1,3-Dichloropropane
 Concen: 47.397 ug/l
 RT: 11.41 min Scan# 1015
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 300240
 Ion Ratio Lower Upper
 76 100
 78 35.0 26.2 39.2

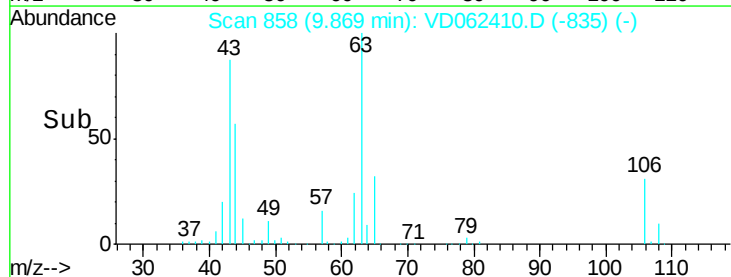
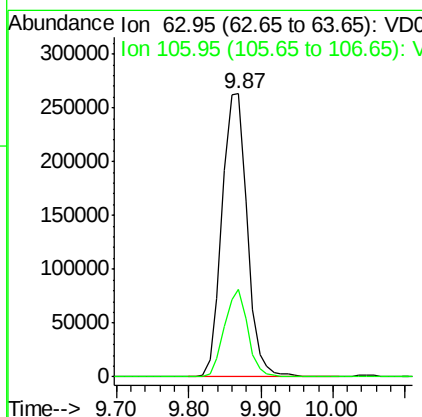
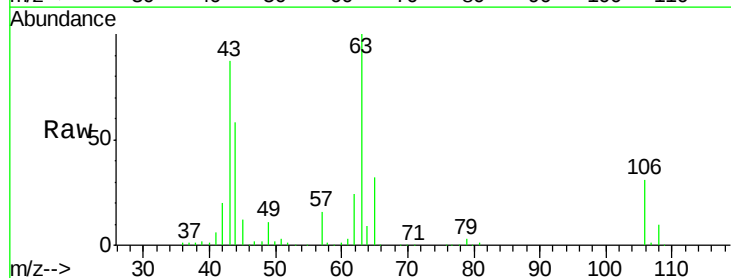
Manual Integrations
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#58
 2-Chloroethyl Vinyl ether
 Concen: 267.850 ug/l
 RT: 9.87 min Scan# 858
 Delta R.T. 0.02 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion: 63 Resp: 637485
 Ion Ratio Lower Upper
 63 100
 106 30.9 22.6 34.0





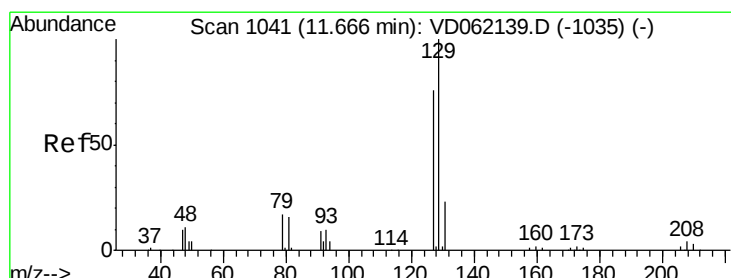
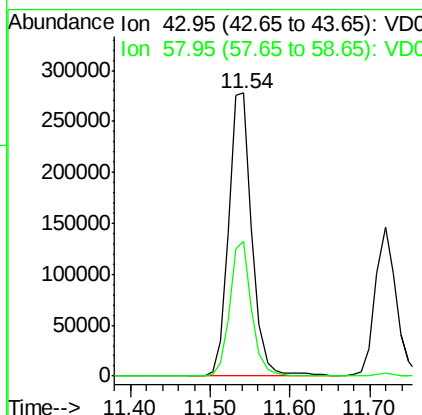
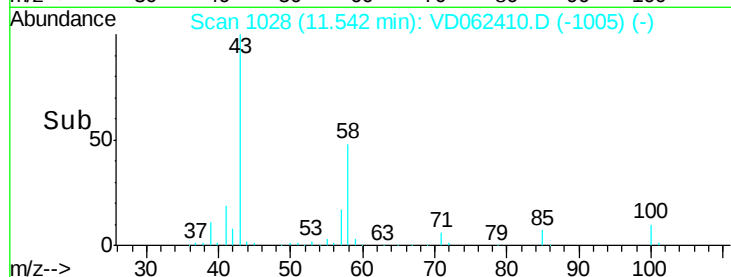
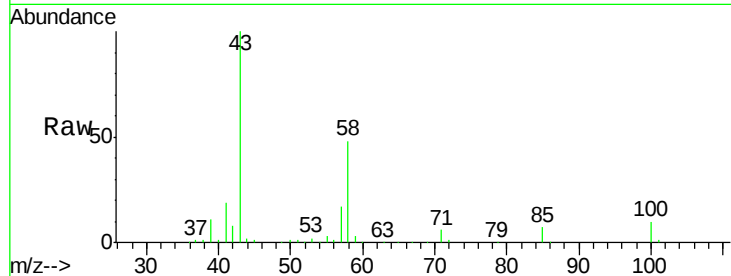
#59
2-Hexanone
Concen: 248.169 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 570380
Ion Ratio Lower Upper
43 100
58 47.5 25.4 76.4

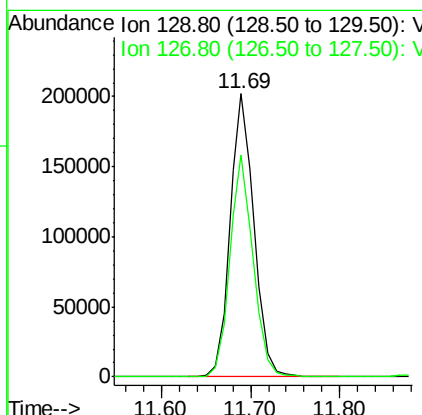
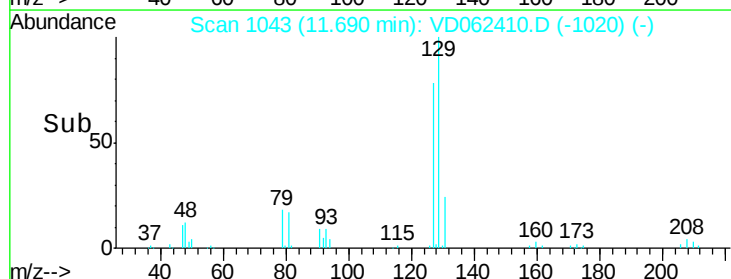
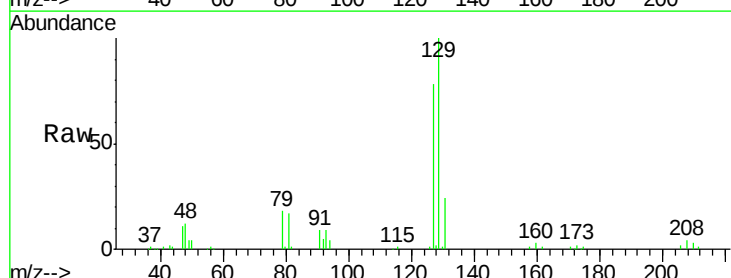
Manual Integrations
APPROVED

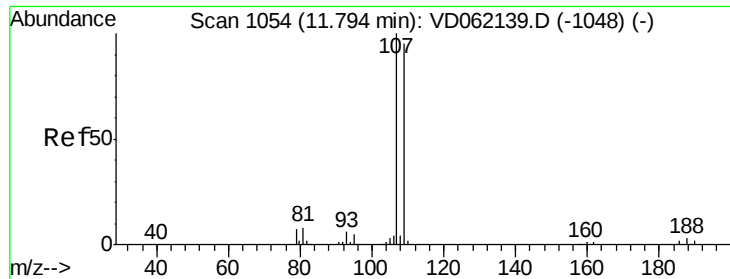
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#60
Dibromochloromethane
Concen: 52.343 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion:129 Resp: 379294
Ion Ratio Lower Upper
129 100
127 78.2 38.0 113.9





#61

1,2-Dibromoethane

Concen: 49.300 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 251314

Ion Ratio Lower Upper

107 100

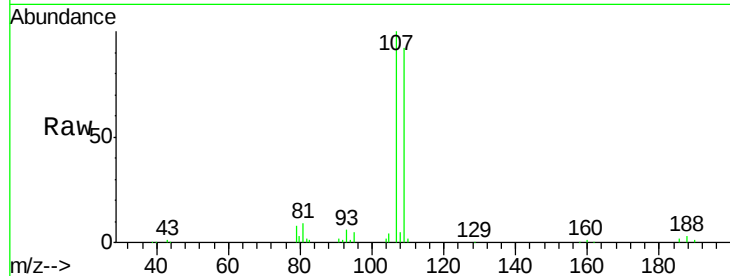
109 92.2 78.3 117.5

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.81

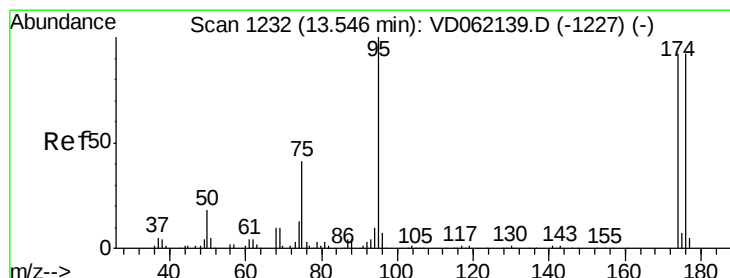
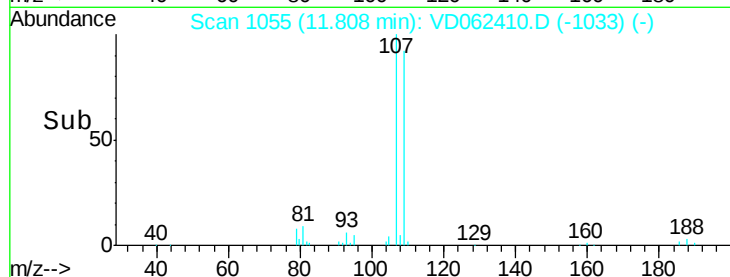
150000

100000

50000

0

Time--> 11.70 11.80 11.90



#62

4-Bromofluorobenzene

Concen: 42.404 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

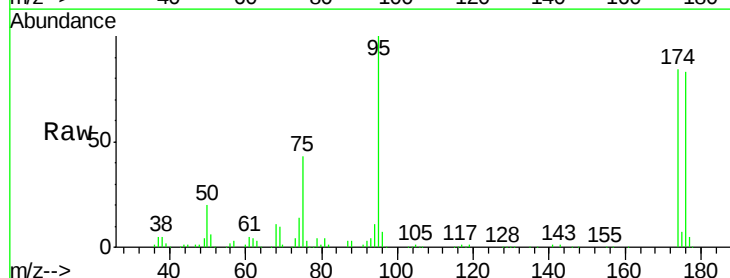
Tgt Ion: 95 Resp: 335107

Ion Ratio Lower Upper

95 100

174 84.3 0.0 181.8

176 82.5 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.56

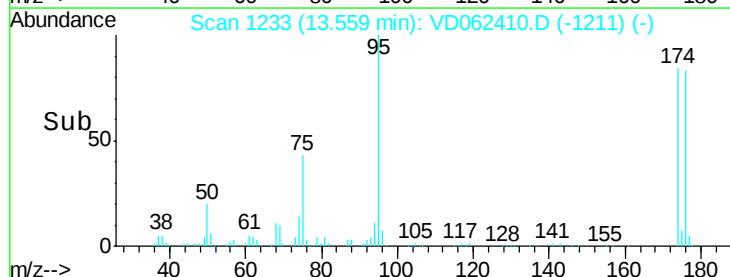
300000

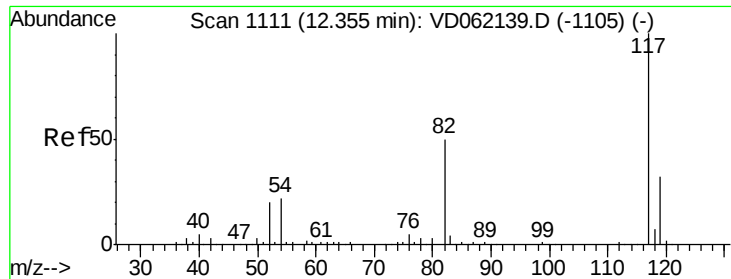
200000

100000

0

Time--> 13.50 13.60





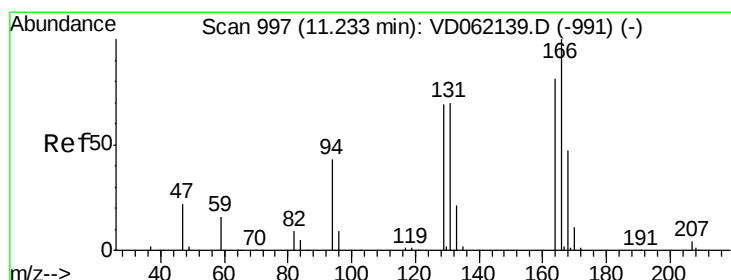
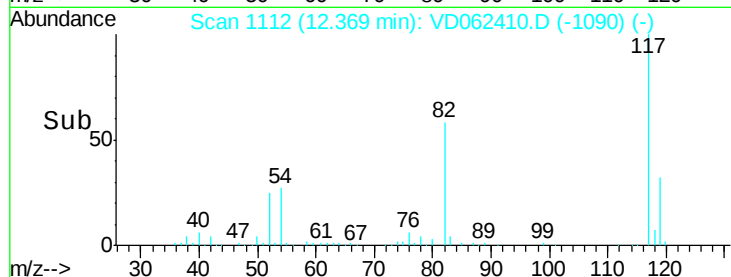
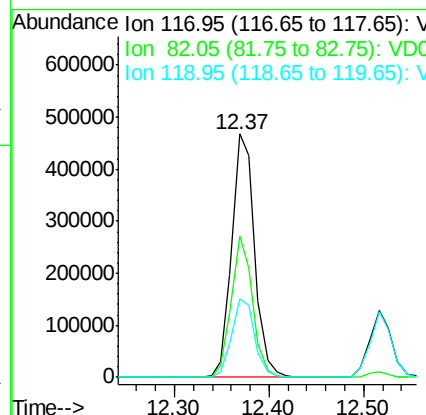
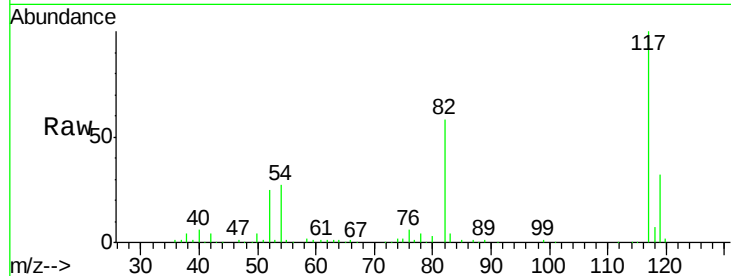
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	36.2	54.2#
119	32.3	26.2	39.4

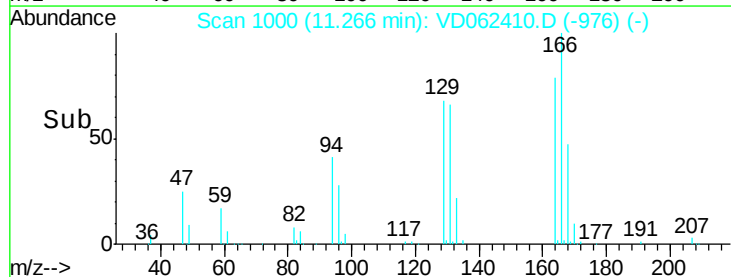
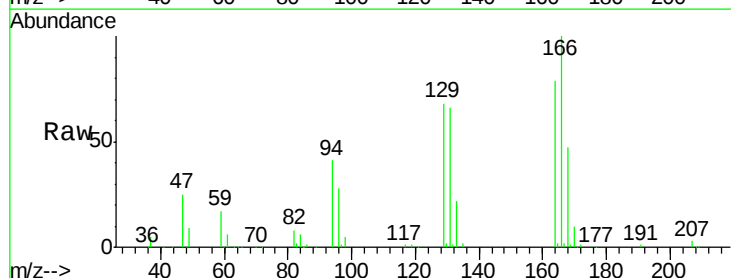
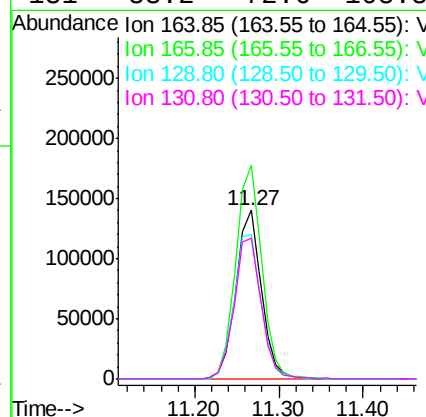
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#64
Tetrachloroethene
Concen: 48.484 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.03 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.5	152.3
129	85.7	74.6	112.0
131	83.2	72.6	108.8





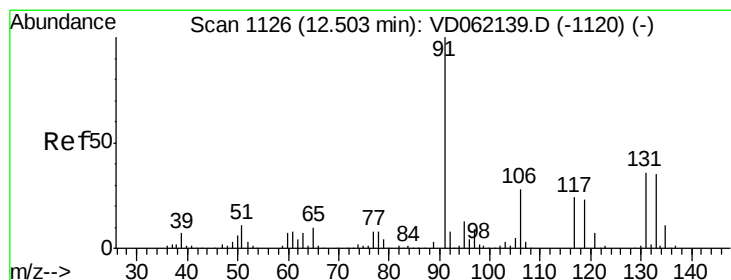
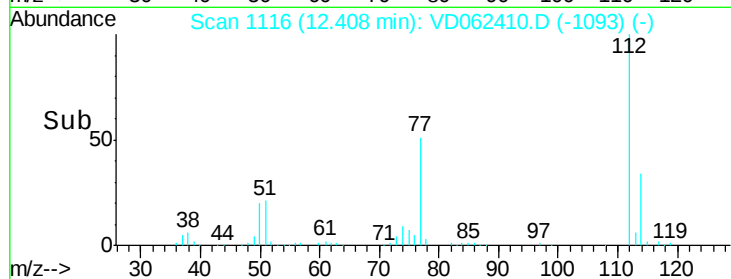
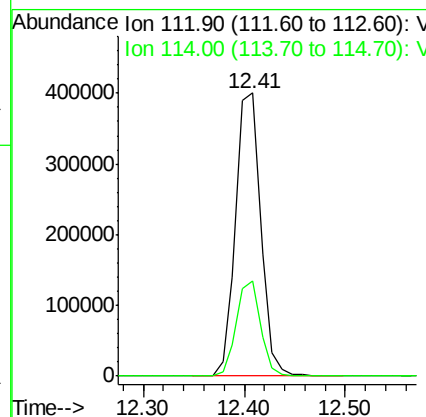
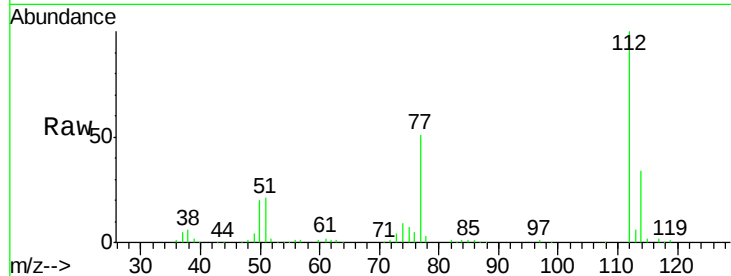
#65
Chlorobenzene
Concen: 47.533 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 692525
Ion Ratio Lower Upper
112 100
114 33.5 25.8 38.8

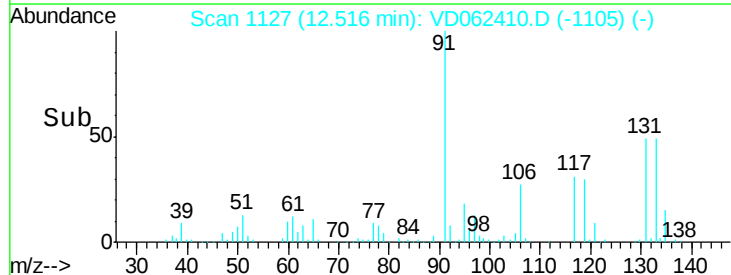
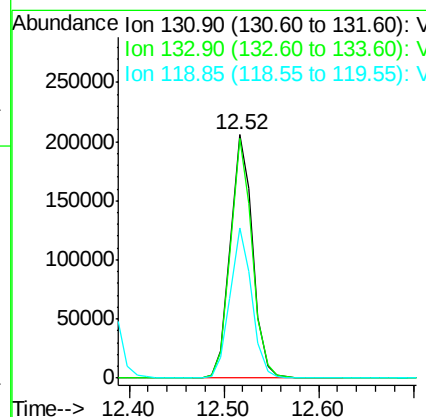
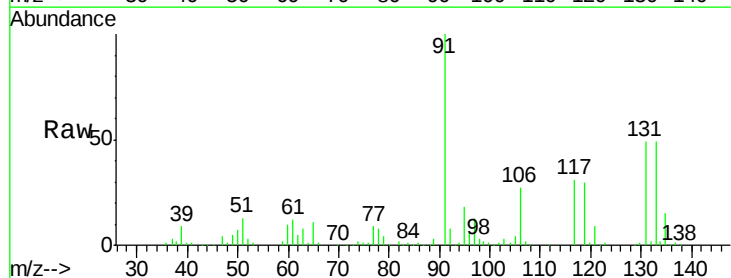
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#66
1,1,1,2-Tetrachloroethane
Concen: 52.708 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion:131 Resp: 334210
Ion Ratio Lower Upper
131 100
133 98.7 48.6 145.8
119 61.8 34.7 104.1





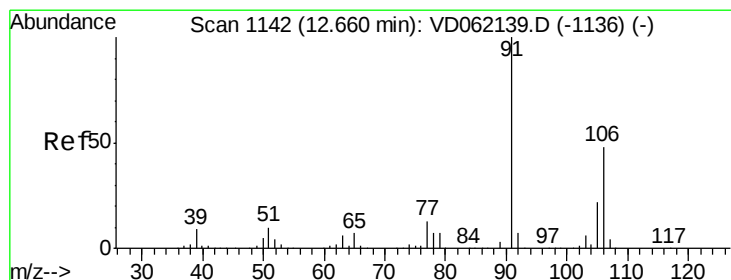
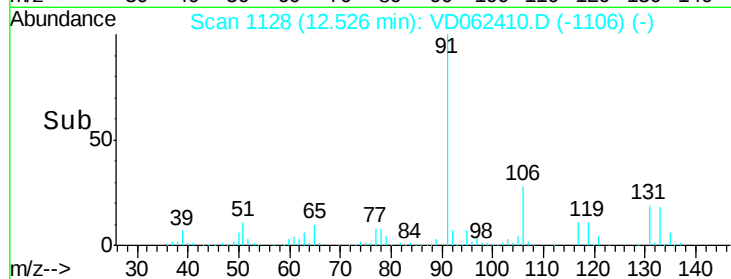
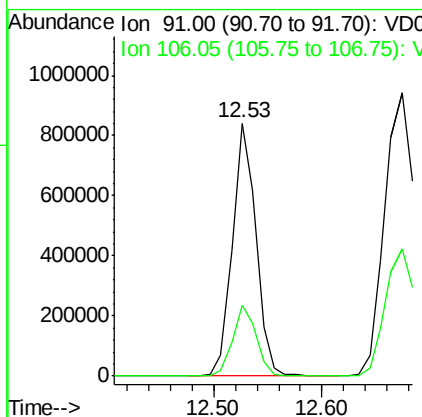
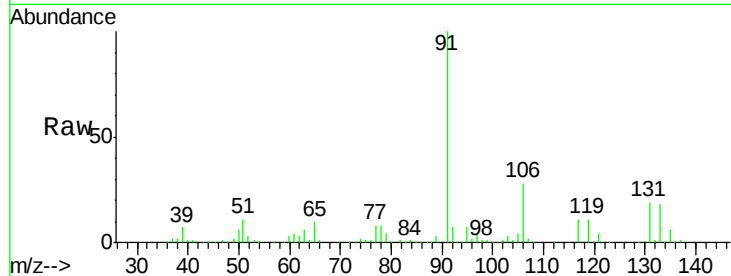
#67
Ethyl Benzene
Concen: 52.275 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1275039
Ion Ratio Lower Upper
91 100
106 27.9 24.7 37.1

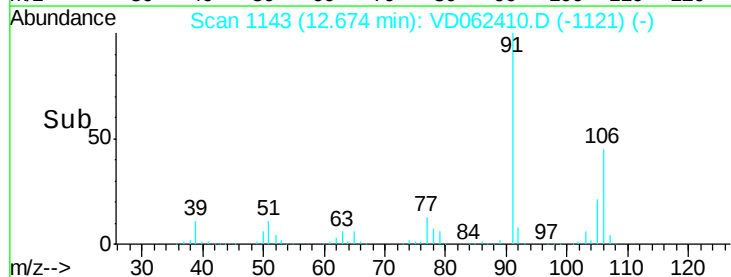
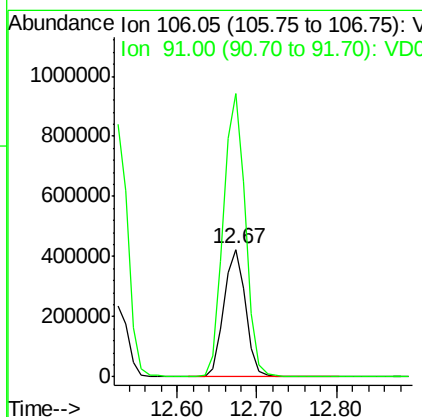
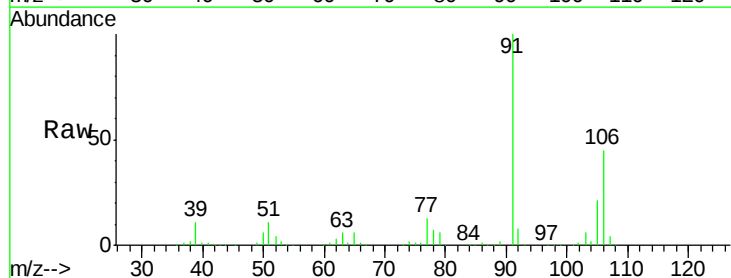
Manual Integrations
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#68
m/p-Xylenes
Concen: 91.373 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion: 106 Resp: 810854
Ion Ratio Lower Upper
106 100
91 222.5 164.0 246.0





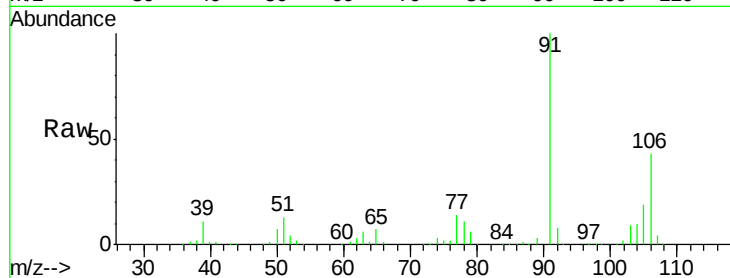
#69
o-Xylene
Concen: 48.434 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

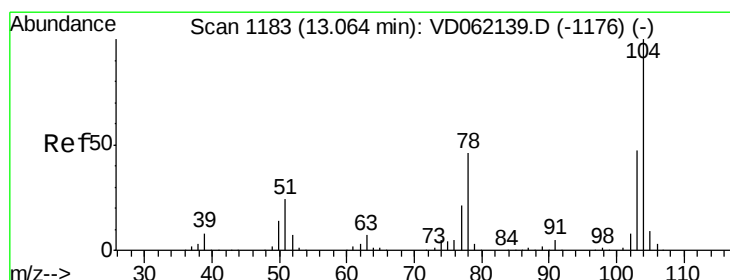
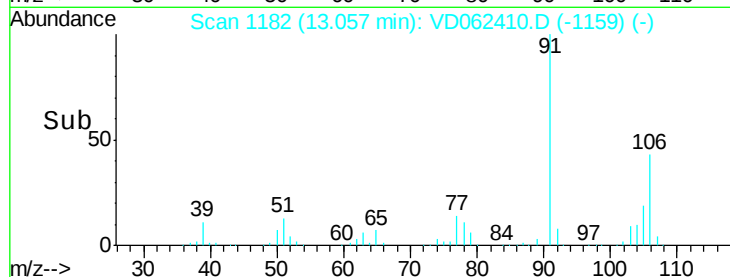
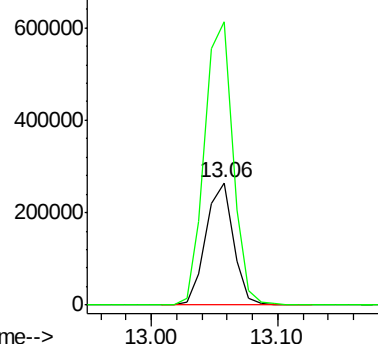
Tot Ion:106 Resp: 399584
Ion Ratio Lower Upper
106 100
91 231.4 106.7 319.9

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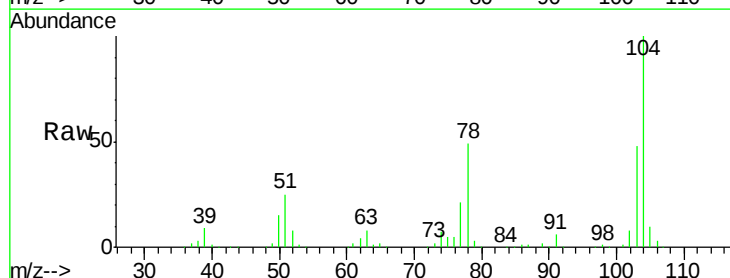


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

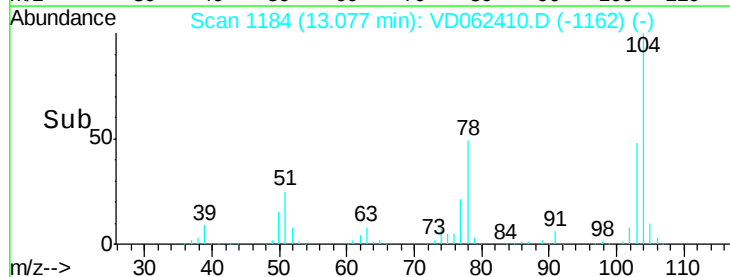
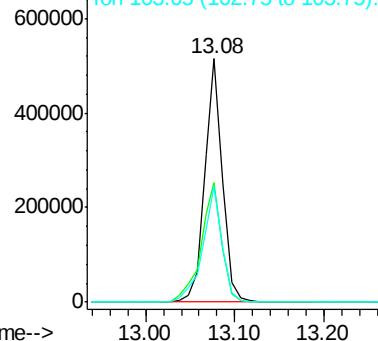


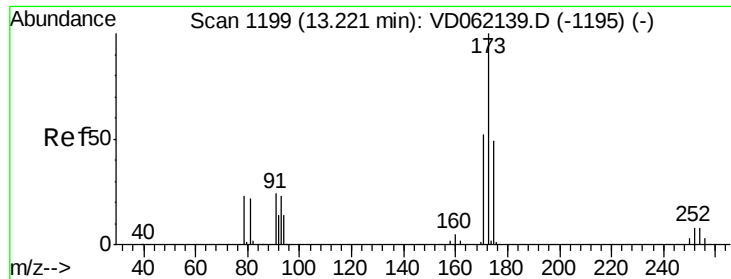
#70
Styrene
Concen: 51.276 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion:104 Resp: 716623
Ion Ratio Lower Upper
104 100
78 49.1 35.4 53.2
103 47.6 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: 52.893 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

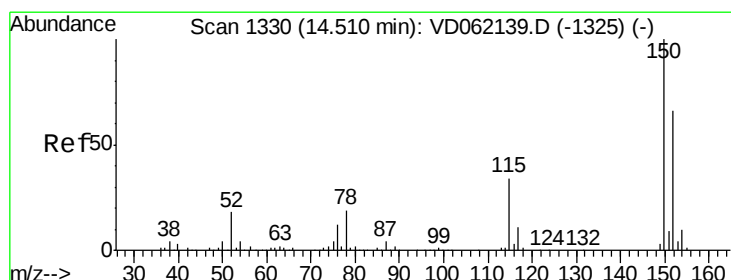
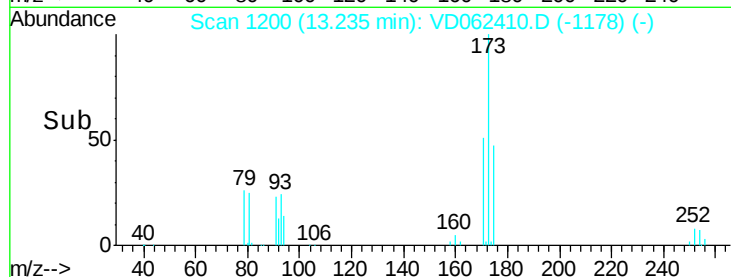
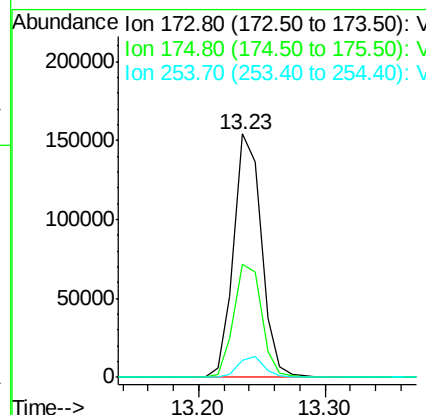
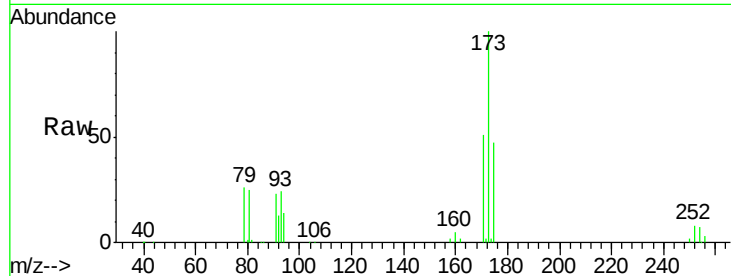
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	233339
Ion Ratio	Lower	Upper	
173	100		
175	46.5	24.4	73.4
254	6.8	5.4	8.2

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

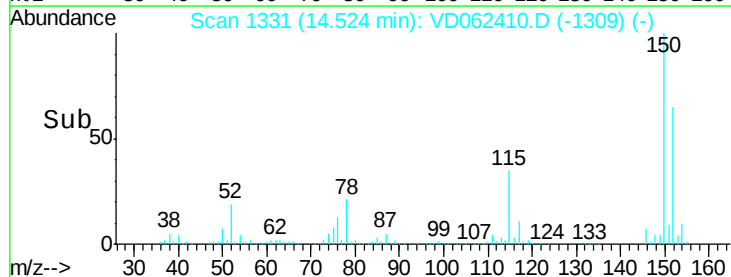
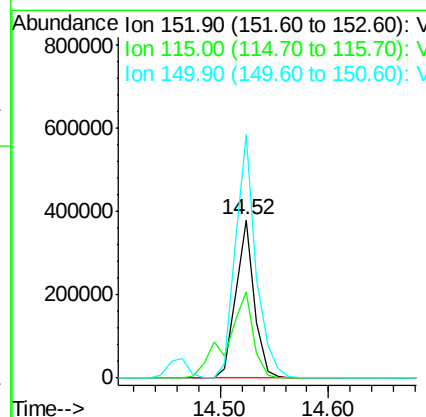
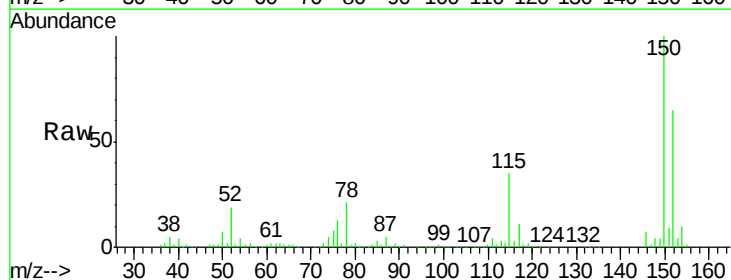
RT: 14.52 min Scan# 1331

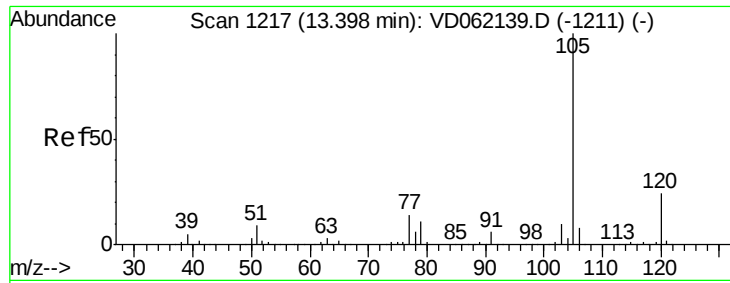
Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	152	Resp:	450878
Ion Ratio	Lower	Upper	
152	100		
115	54.6	30.9	92.7
150	154.1	0.0	314.8





#73

Isopropylbenzene

Concen: 47.366 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1280151

Ion Ratio Lower Upper

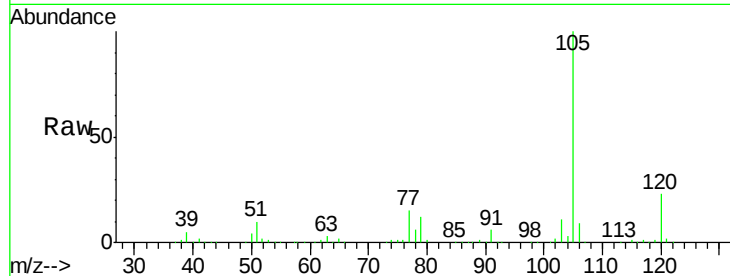
105 100

120 22.6 12.0 36.1

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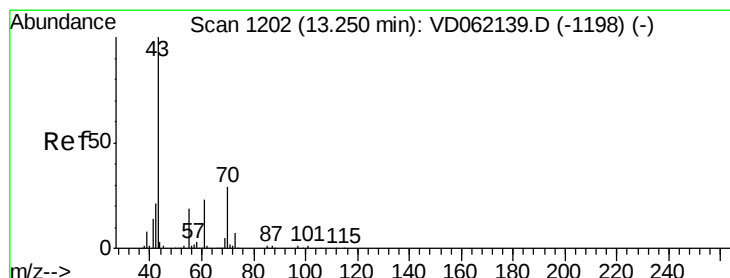
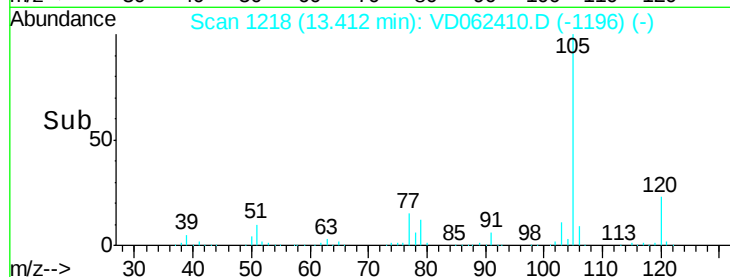
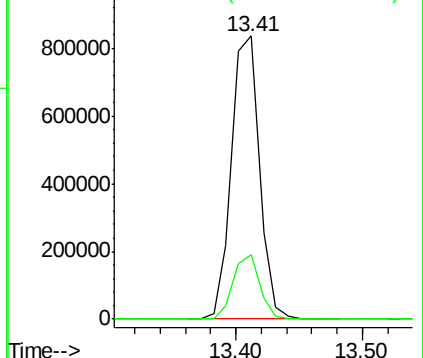
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 42.143 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion: 43 Resp: 298619

Ion Ratio Lower Upper

43 100

70 25.5 24.2 36.4

55 18.6 16.0 24.0

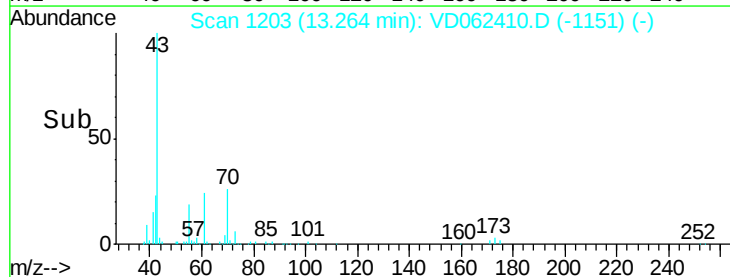
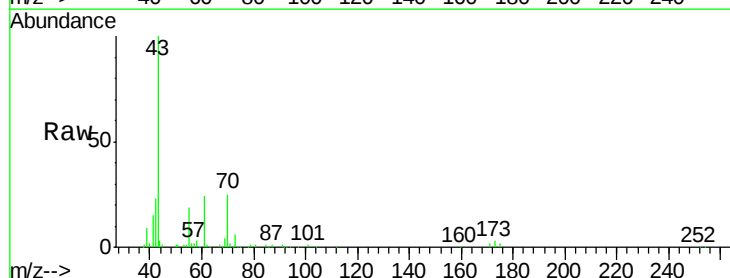
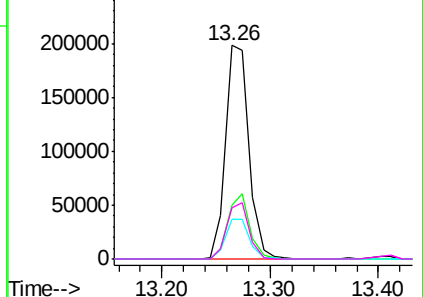
61 23.8 21.6 32.4

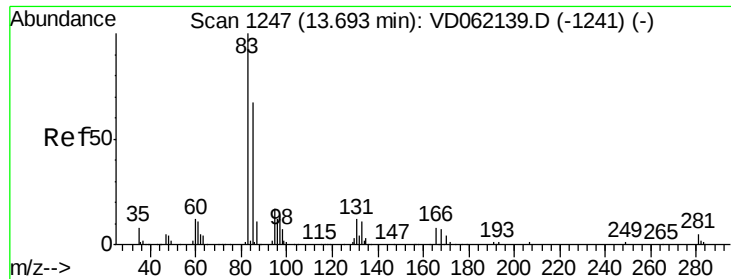
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 42.470 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

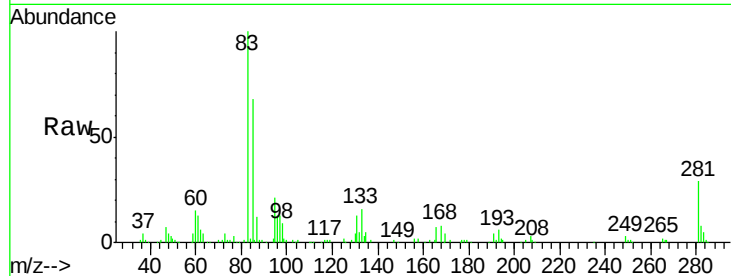
ClientSampleId :

VSTDCCC050

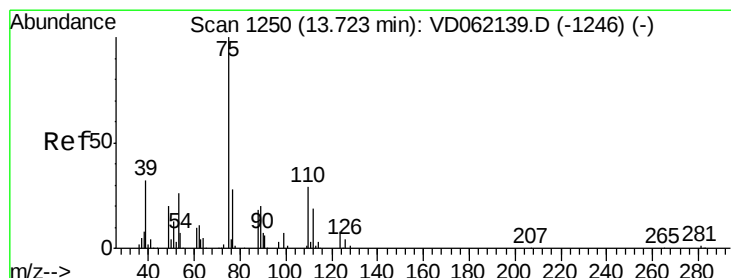
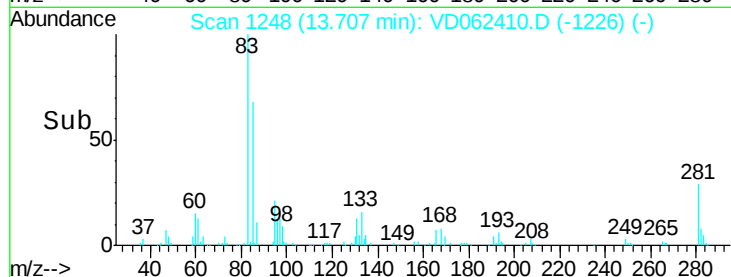
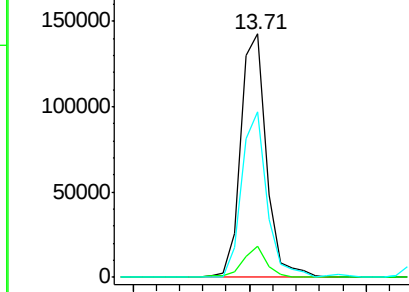
Tot Ion:	83	Resp:	217301
Ion Ratio	Lower	Upper	
83	100		
131	12.6	5.0	14.9
85	67.8	32.6	97.7

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



#76

1,2,3-Trichloropropane

Concen: 47.183 ug/l

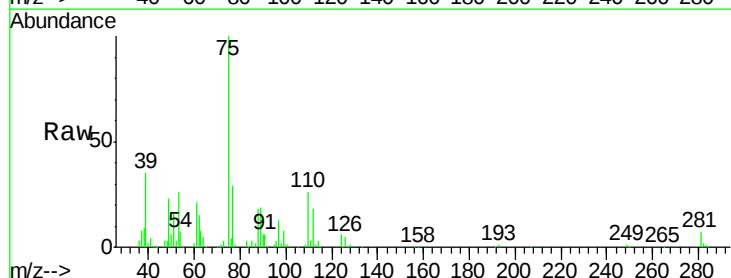
RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

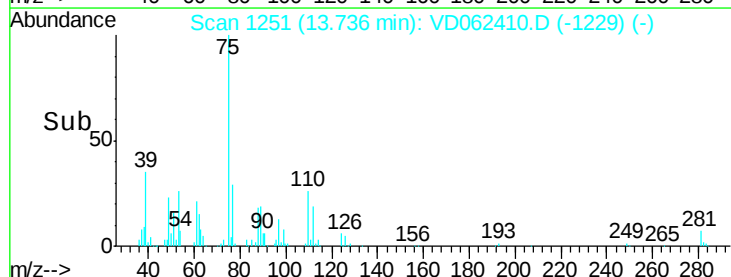
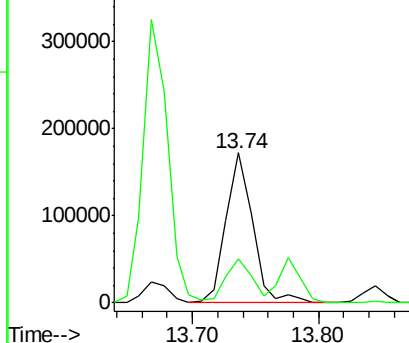
Lab File: VD062410.D

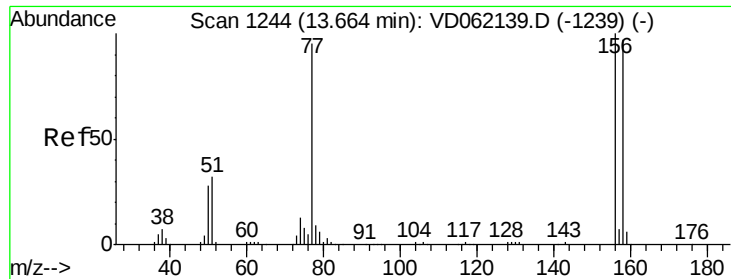
Acq: 16 May 2019 11:29

Tgt Ion:	75	Resp:	252821
Ion Ratio	Lower	Upper	
75	100		
77	29.2	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: 47.772 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

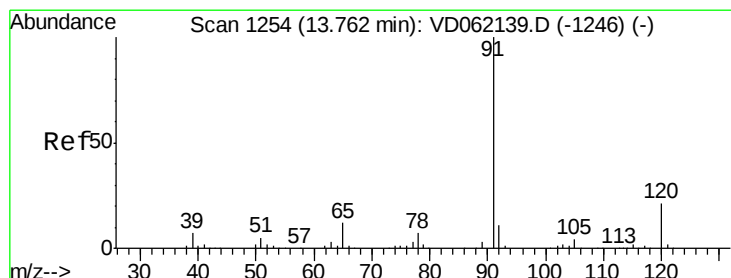
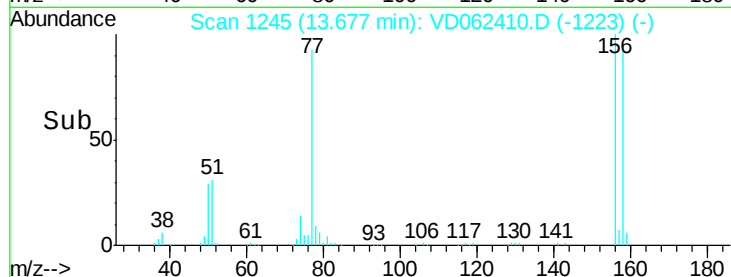
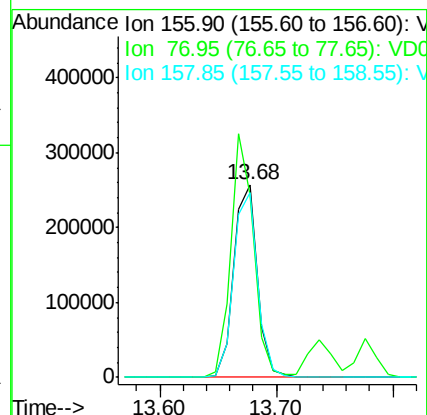
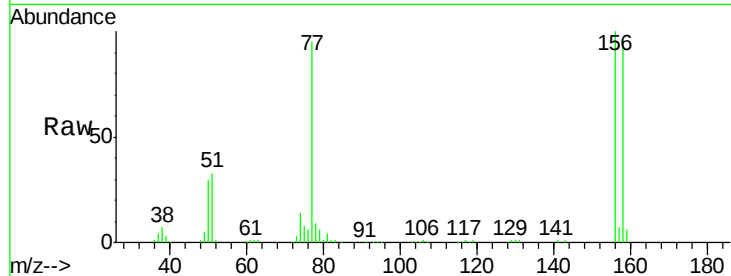
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	361437
Ion Ratio	Lower	Upper	
156	100		
77	94.7	53.1	159.4
158	96.0	49.4	148.0

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5/17/2019 3:12:06 PM



#78

n-propylbenzene

Concen: 47.687 ug/l

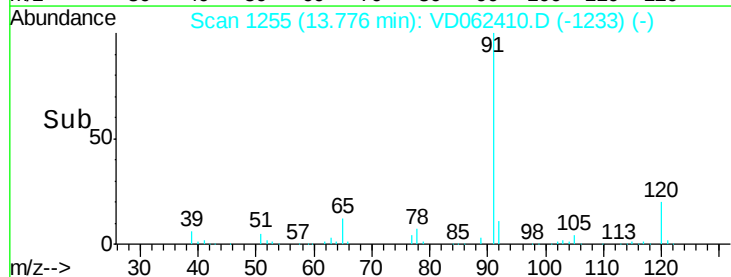
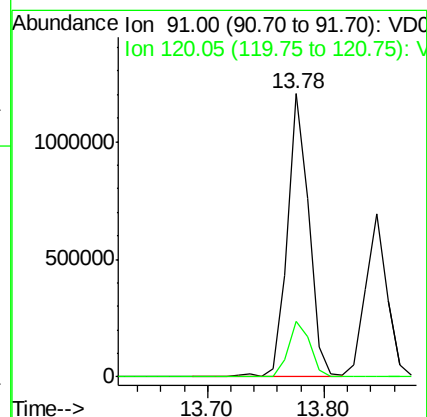
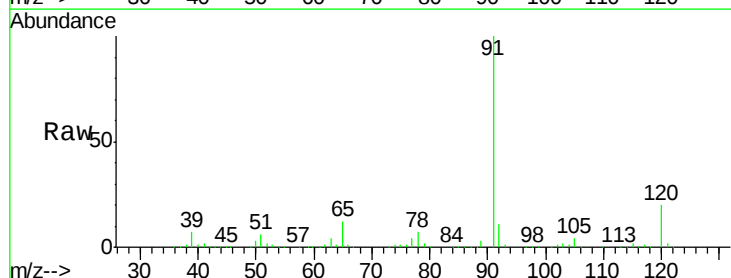
RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Tgt Ion:	91	Resp:	1537451
Ion Ratio	Lower	Upper	
91	100		
120	19.7	11.1	33.1





#79

2-Chlorotoluene

Concen: 47.686 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062410.D

Acq: 16 May 2019 11:29

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 880495

Ion Ratio Lower Upper

91 100

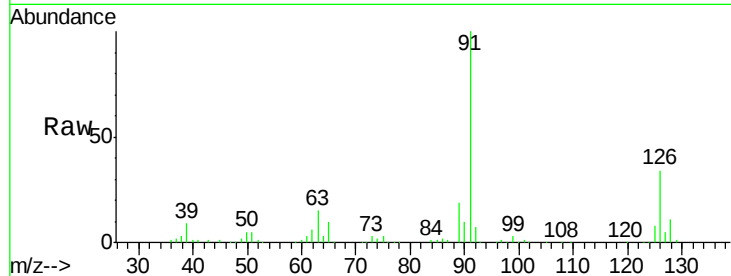
126 34.2 18.6 55.8

Manual Integrations

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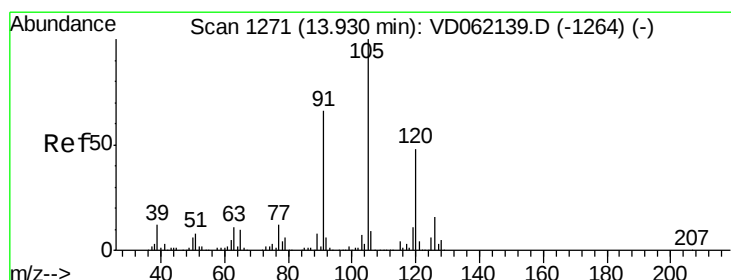
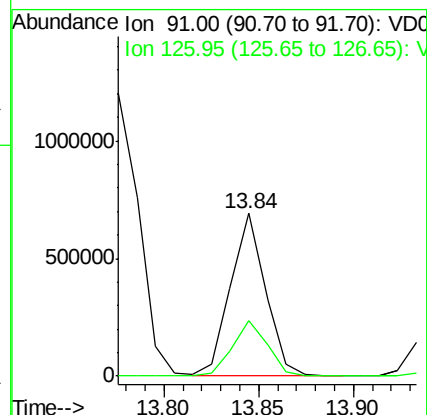
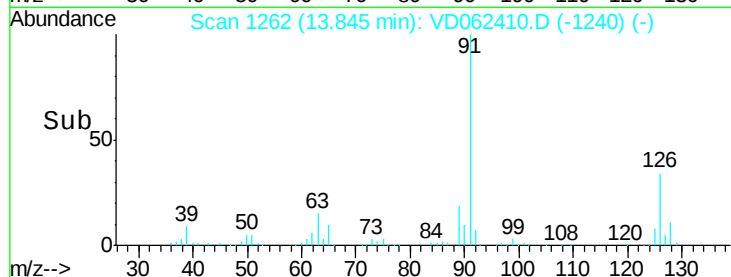
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 47.330 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062410.D

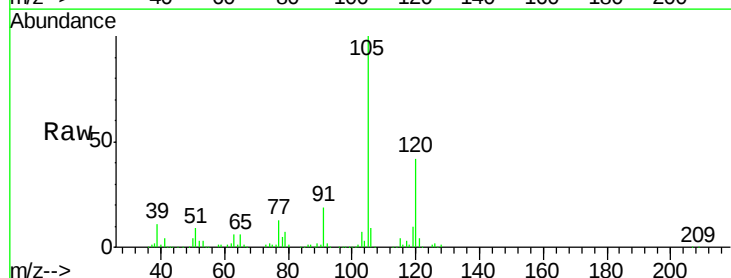
Acq: 16 May 2019 11:29

Tgt Ion:105 Resp: 1077172

Ion Ratio Lower Upper

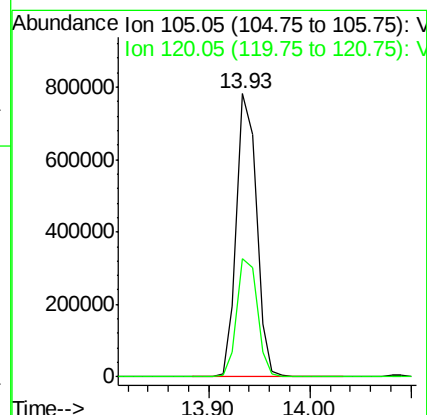
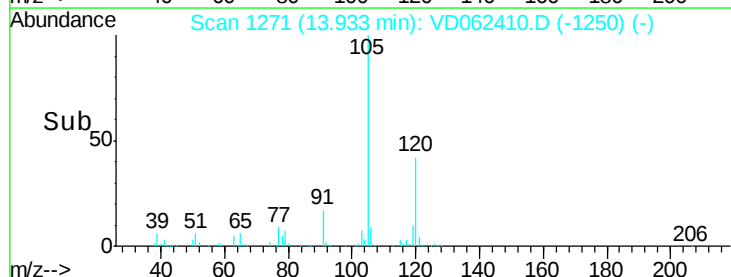
105 100

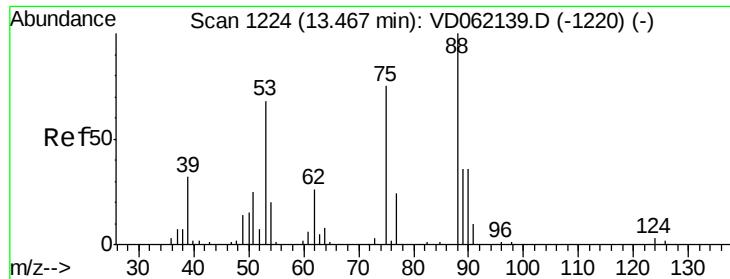
120 41.6 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





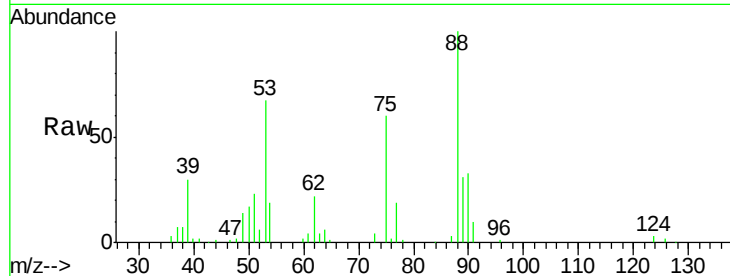
#81
trans-1,4-Dichloro-2-butene
Concen: 45.440 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

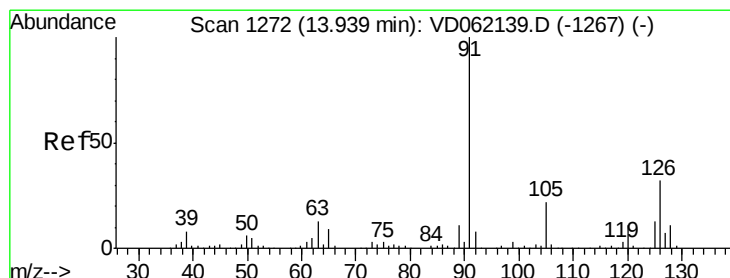
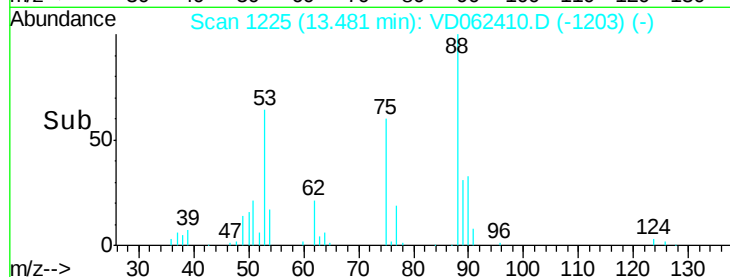
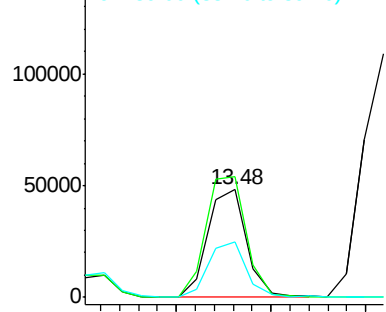
Tot Ion	Ratio	Lower	Upper
75	100		
53	111.8	65.8	98.8#
89	51.2	35.0	52.6

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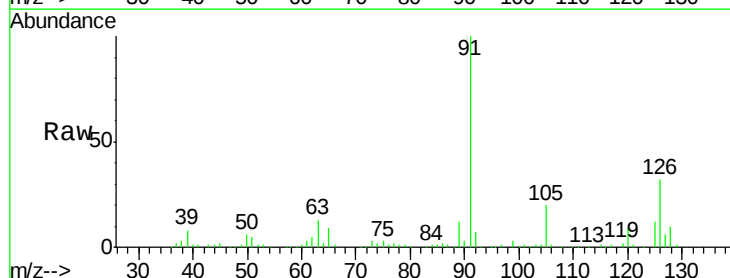


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

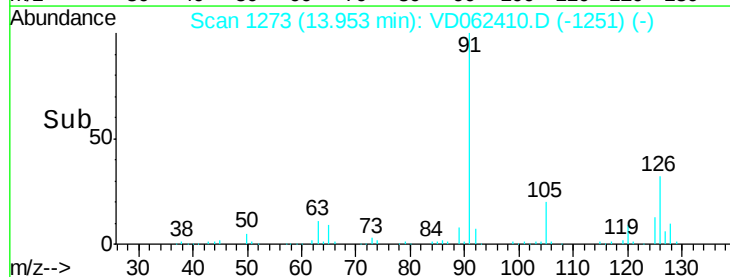
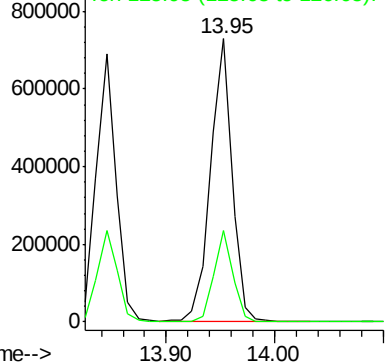


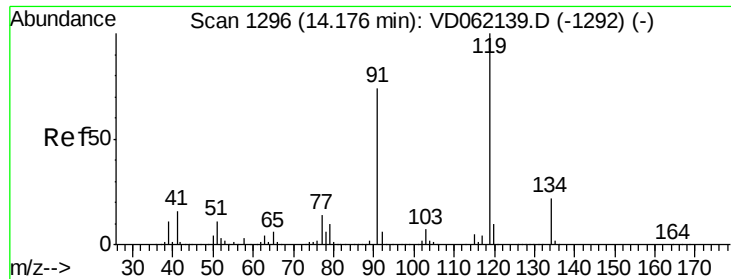
#82
4-Chlorotoluene
Concen: 46.367 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	19.1	57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





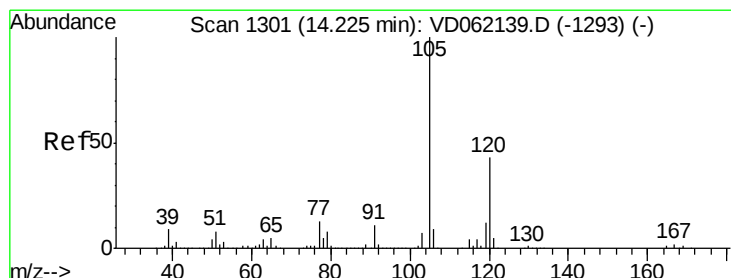
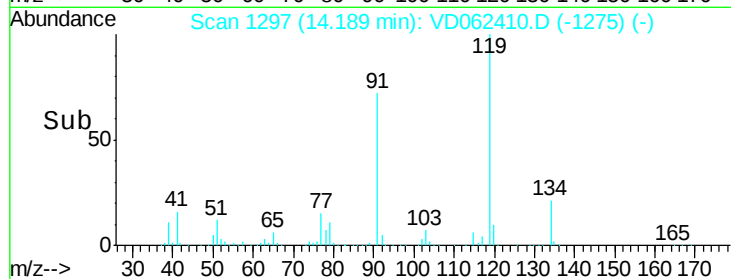
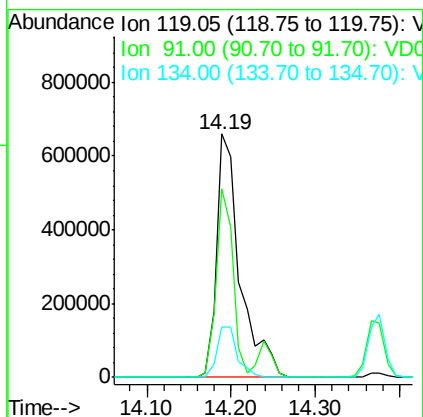
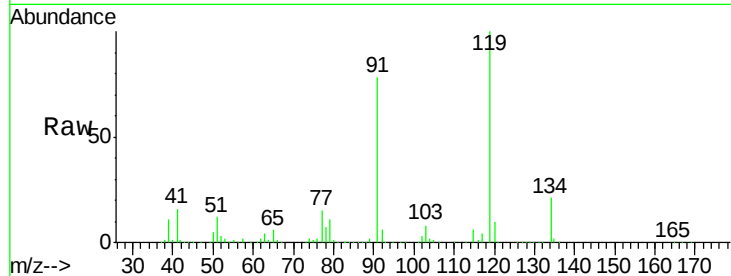
#83
 tert-Butylbenzene
 Concen: 49.800 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1273924
 Ion Ratio Lower Upper
 119 100
 91 77.5 34.2 102.6
 134 20.9 12.0 36.0

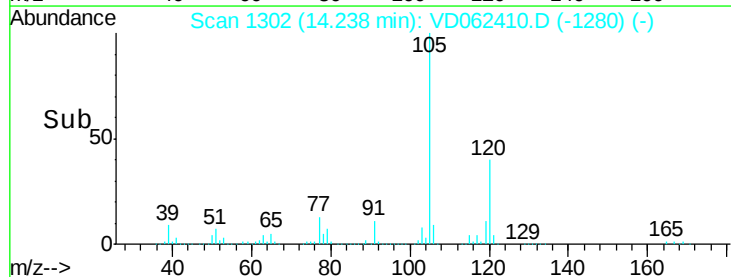
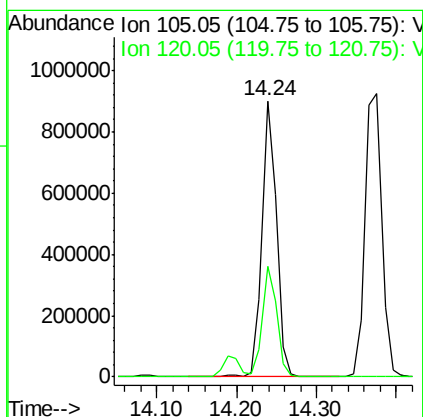
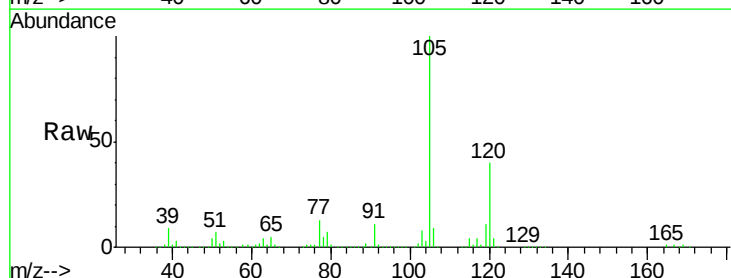
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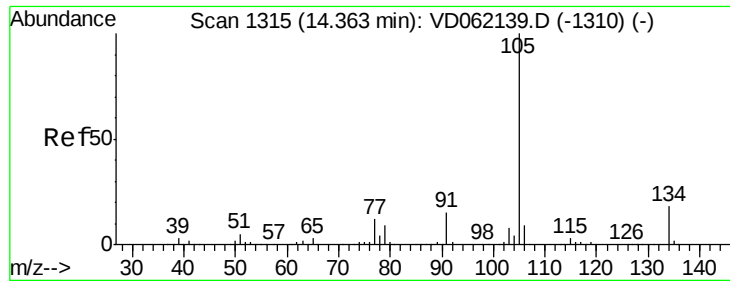
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#84
 1,2,4-Trimethylbenzene
 Concen: 48.970 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion:105 Resp: 1118418
 Ion Ratio Lower Upper
 105 100
 120 39.9 23.1 69.2





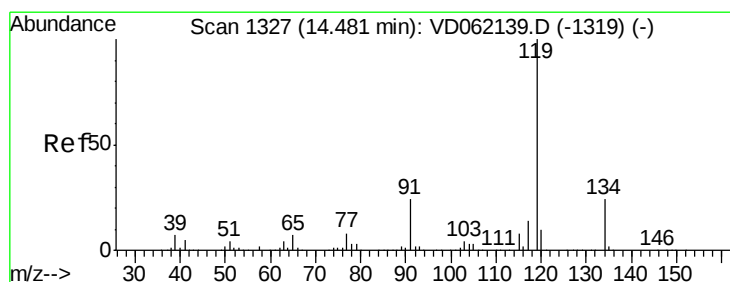
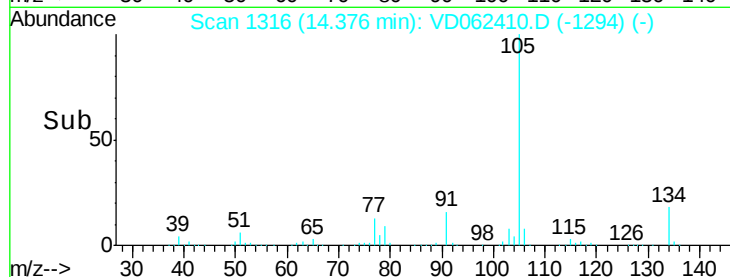
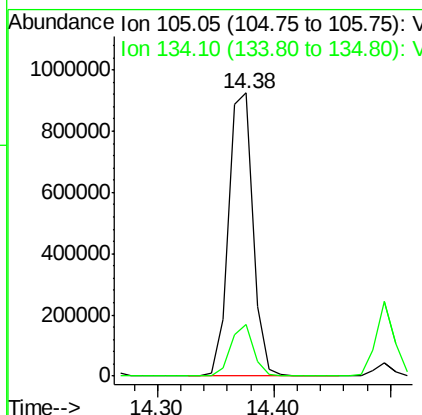
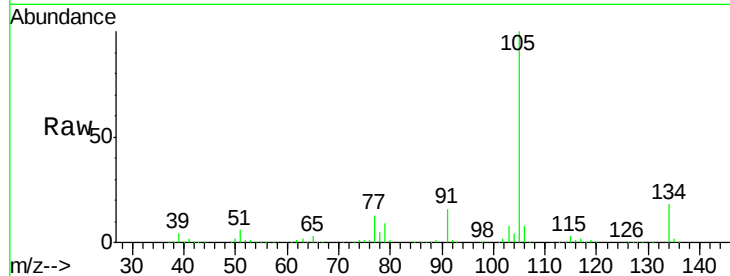
#85
 sec-Butylbenzene
 Concen: 47.617 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1335507
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.9 26.7

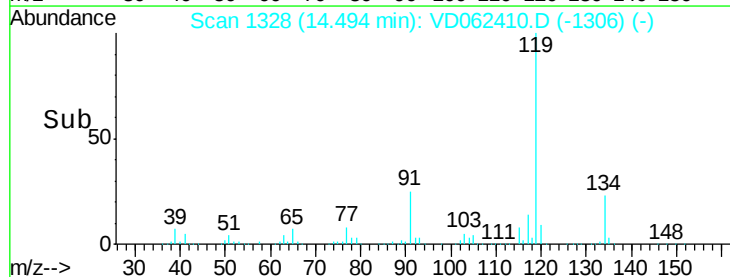
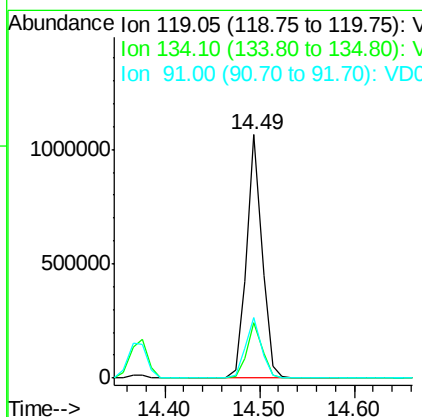
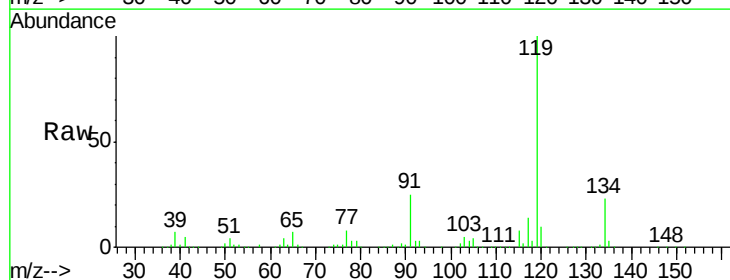
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#86
 p-Isopropyltoluene
 Concen: 48.194 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion:119 Resp: 1207661
 Ion Ratio Lower Upper
 119 100
 134 23.0 12.8 38.3
 91 25.0 10.7 32.1





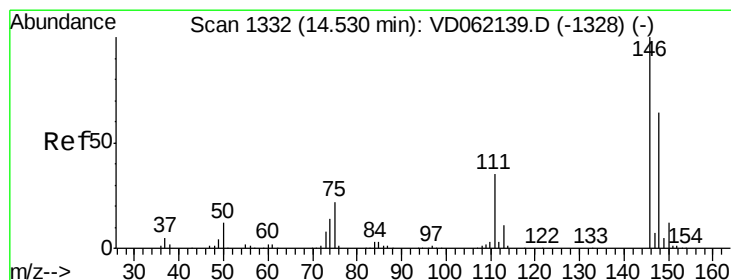
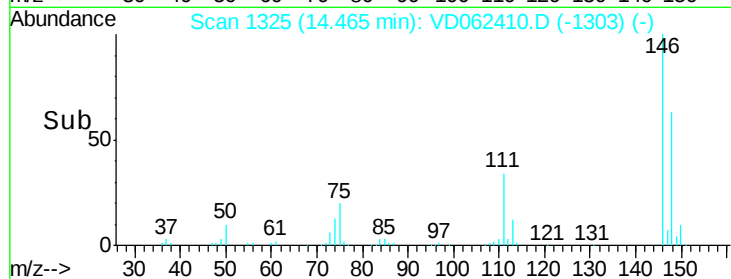
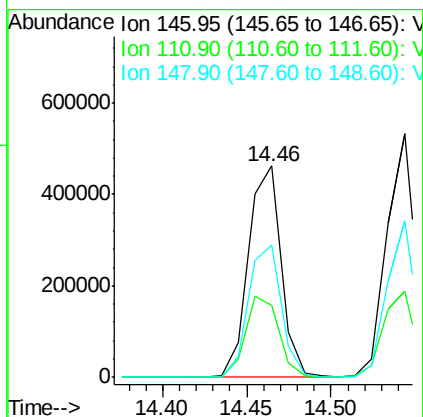
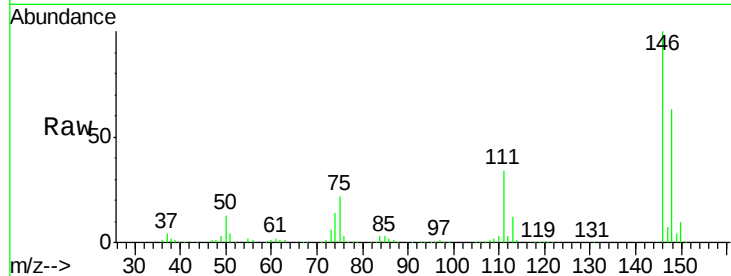
#87
 1,3-Dichlorobenzene
 Concen: 45.179 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	20.0	60.0
148	62.7	31.8	95.4

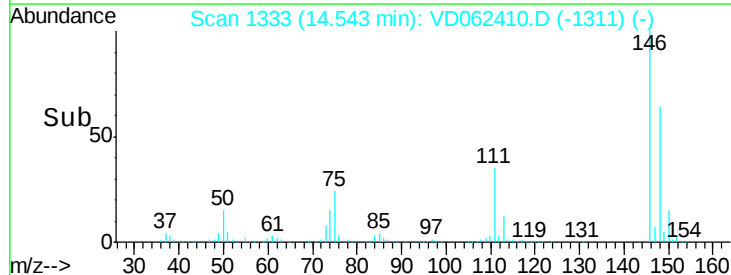
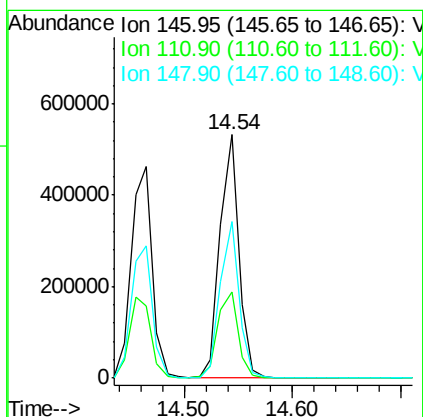
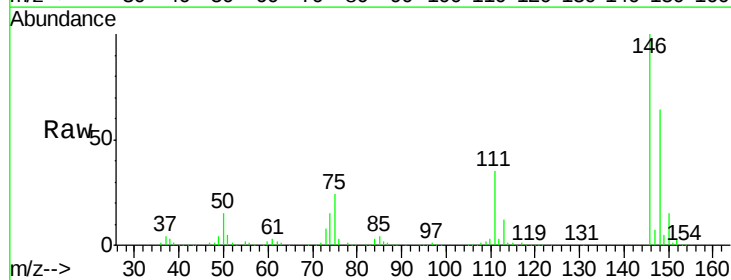
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#88
 1,4-Dichlorobenzene
 Concen: 47.592 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.3	20.2	60.5
148	64.5	32.0	96.2





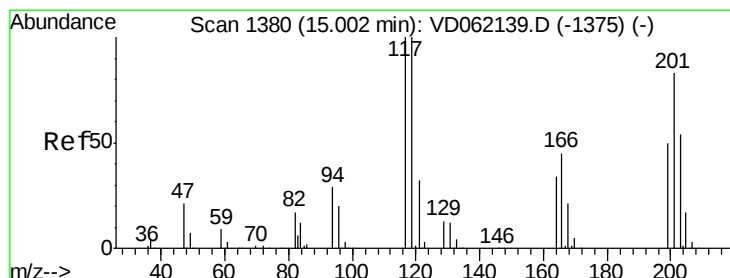
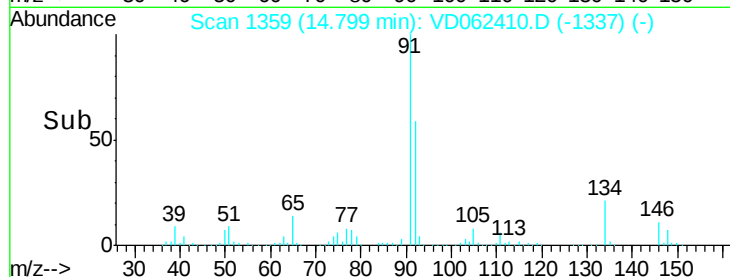
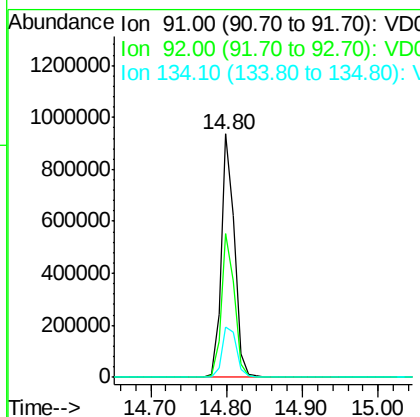
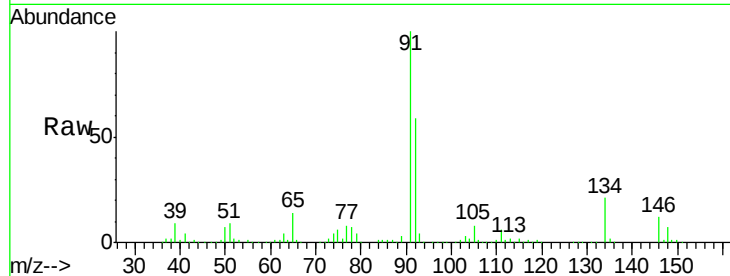
#89
n-Butylbenzene
Concen: 50.526 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1136426
Ion Ratio Lower Upper
91 100
92 58.9 30.3 91.0
134 20.8 14.5 43.6

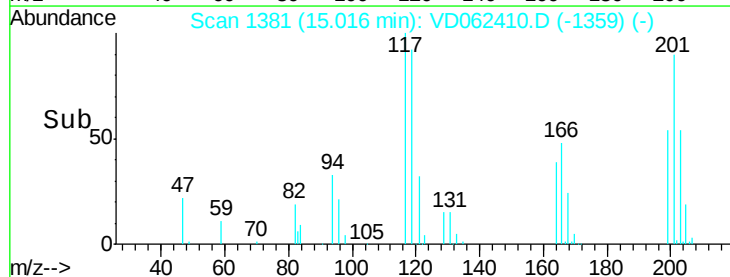
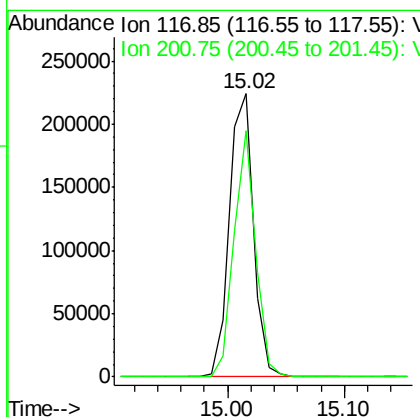
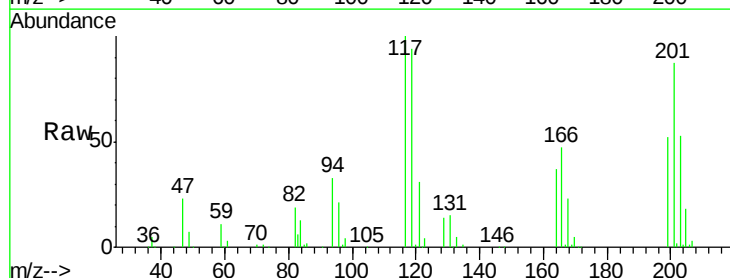
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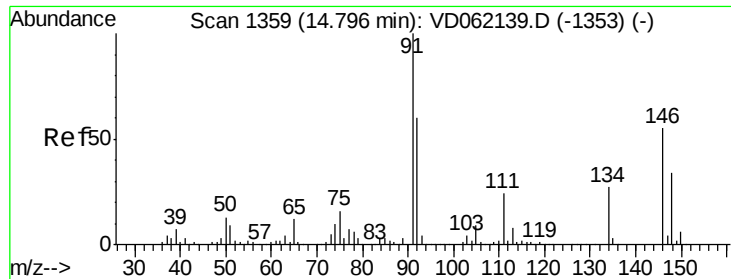
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#90
Hexachloroethane
Concen: 46.976 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion: 117 Resp: 320122
Ion Ratio Lower Upper
117 100
201 87.1 30.2 90.6





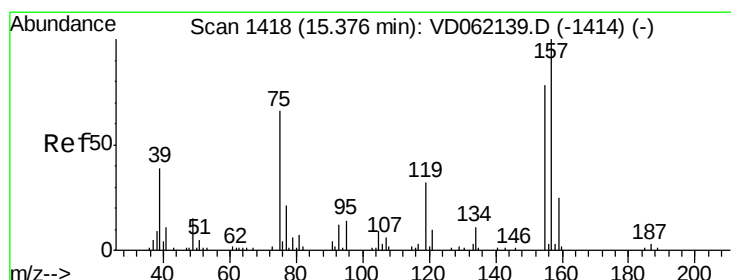
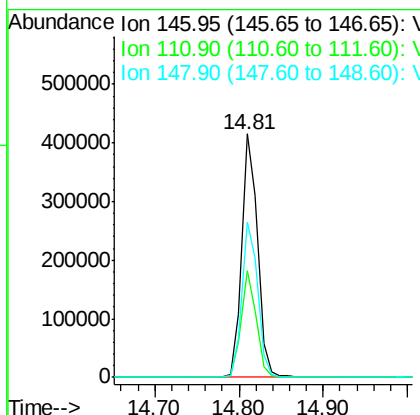
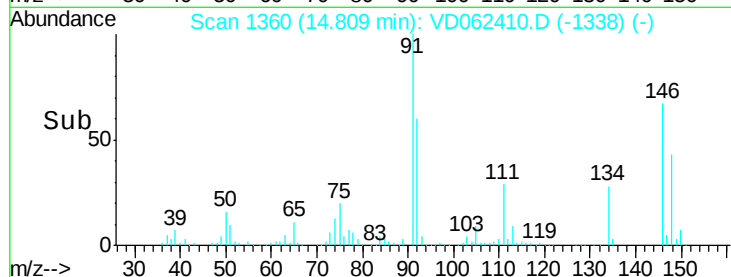
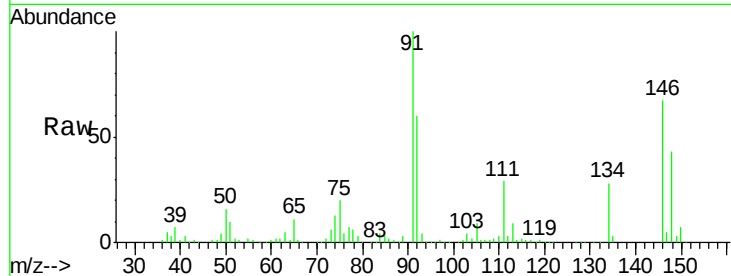
#91
 1,2-Dichlorobenzene
 Concen: 47.696 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.0	20.0	59.9
148	63.9	32.3	96.8

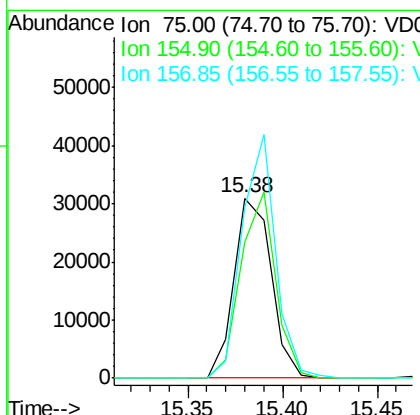
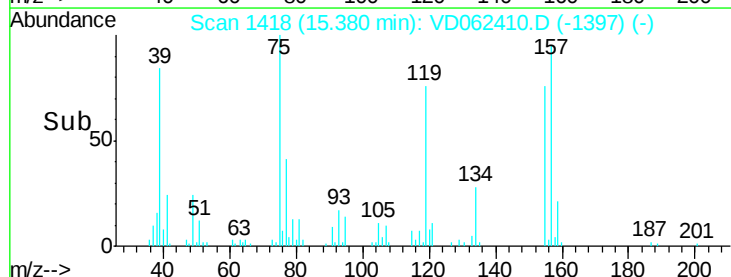
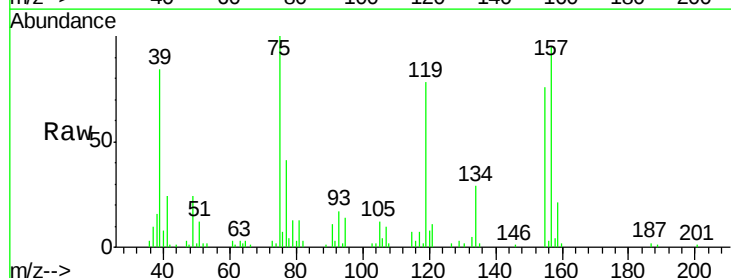
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.046 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.6	55.3	165.8
157	94.9	67.8	203.2





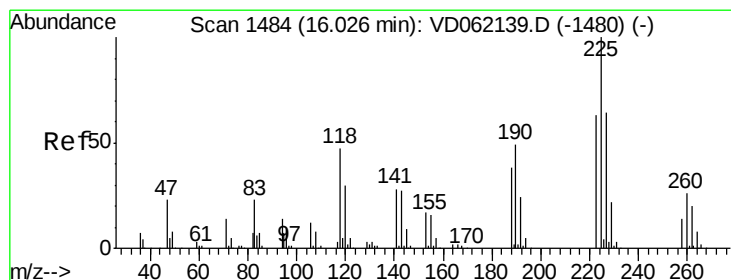
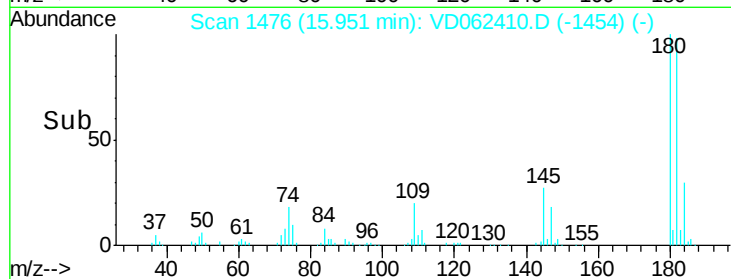
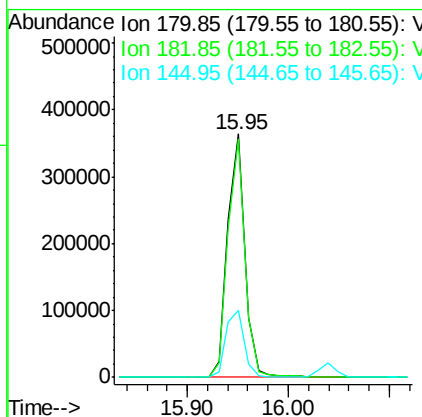
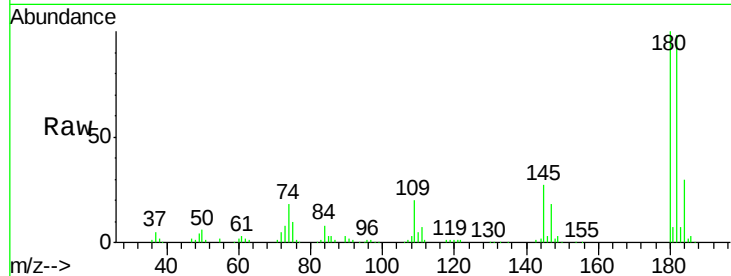
#93
 1,2,4-Trichlorobenzene
 Concen: 52.618 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	49.3	147.8
145	27.5	16.2	48.6

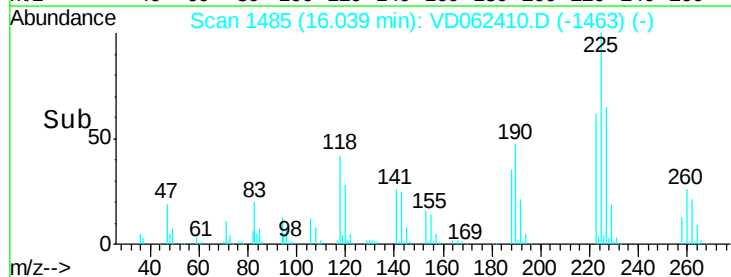
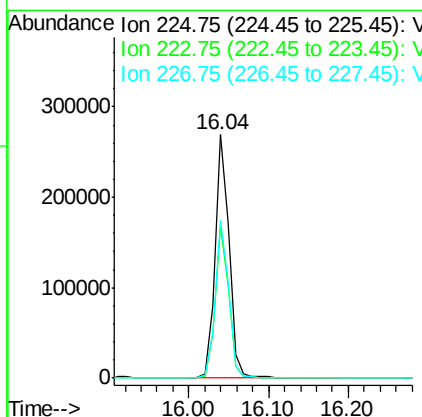
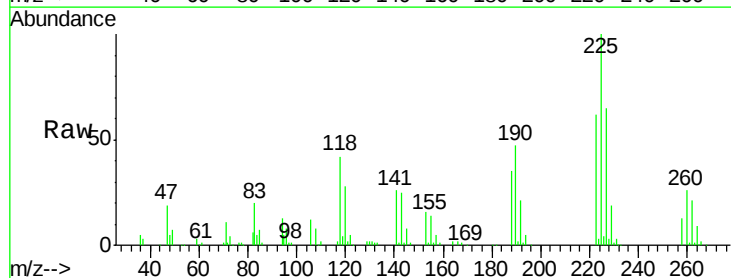
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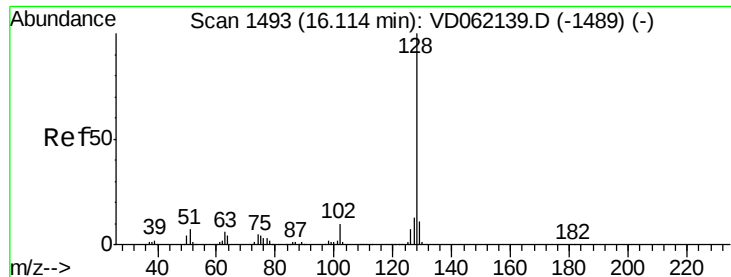
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#94
 Hexachlorobutadiene
 Concen: 54.204 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062410.D
 Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	30.6	92.0
227	64.7	32.0	96.2





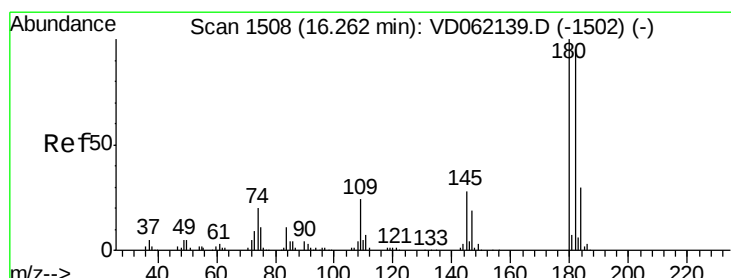
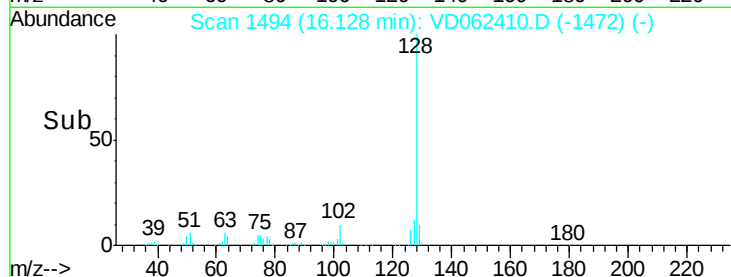
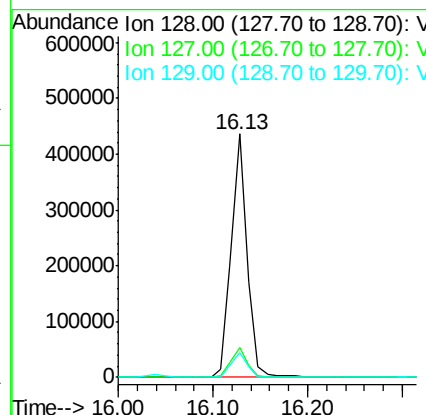
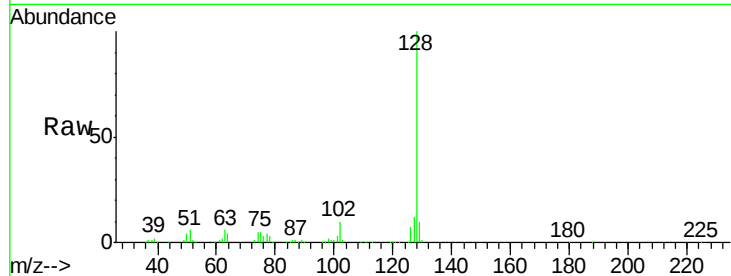
#95
Naphthalene
Concen: 43.825 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	506907		
127	12.1		9.8	14.8
129	10.3		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/17/2019 3:12:06 PM



#96
1,2,3-Trichlorobenzene
Concen: 65.322 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062410.D
Acq: 16 May 2019 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	340262		
182	95.5		47.0	141.0
145	28.9		17.0	51.0

