

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021120\
 Data File : VD065143.D
 Acq On : 11 Feb 2020 11:47
 Operator : VA/SY
 Sample : VD0211SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:12:48 PM

Quant Time: Feb 12 07:12:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	461328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	679586	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	613466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	298866	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	208945	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	
35) Dibromofluoromethane	7.92	113	211082	55.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.34%	
50) Toluene-d8	10.34	98	824713	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
62) 4-Bromofluorobenzene	12.64	95	260313	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	81752	21.295	ug/l	97
3) Chloromethane	2.21	50	107683	23.828	ug/l	96
4) Vinyl Chloride	2.35	62	111280	23.284	ug/l	100
5) Bromomethane	2.76	94	66679	21.517	ug/l	97
6) Chloroethane	2.92	64	68164	22.992	ug/l	92
7) Trichlorofluoromethane	3.27	101	161729	23.253	ug/l	99
8) Diethyl Ether	3.70	74	43228	21.650	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	91956	21.627	ug/l	97
10) Methyl Iodide	4.29	142	88434	18.222	ug/l	98
11) Tert butyl alcohol	5.25	59	22250	92.878	ug/l #	93
12) 1,1-Dichloroethene	4.06	96	88496	21.732	ug/l	99
13) Acrolein	3.93	56	25801	87.564	ug/l	98
14) Allyl chloride	4.71	41	145642	21.519	ug/l	97
15) Acrylonitrile	5.43	53	94928	108.745	ug/l	99
16) Acetone	4.16	43	97872	99.840	ug/l	96
17) Carbon Disulfide	4.40	76	289080	22.109	ug/l	96
18) Methyl Acetate	4.73	43	47485	23.185	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	183028	20.325	ug/l	96
20) Methylene Chloride	4.96	84	107150	22.670	ug/l	91
21) trans-1,2-Dichloroethene	5.47	96	100116	21.730	ug/l	98
22) Diisopropyl ether	6.37	45	285617	22.373	ug/l	99
23) Vinyl Acetate	6.31	43	744067	104.570	ug/l	99
24) 1,1-Dichloroethane	6.26	63	174483	22.581	ug/l	99
25) 2-Butanone	7.23	43	123758	105.836	ug/l	96
26) 2,2-Dichloropropane	7.21	77	155249	22.416	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	106387	21.736	ug/l	98
28) Bromochloromethane	7.55	49	57980	19.794	ug/l	99
29) Tetrahydrofuran	7.57	42	74603	105.499	ug/l	97
30) Chloroform	7.71	83	177338	23.049	ug/l	97
31) Cyclohexane	7.99	56	165694	21.243	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	159666	22.278	ug/l	99
36) 1,1-Dichloropropene	8.11	75	138634	21.939	ug/l	98
37) Ethyl Acetate	7.30	43	55213	21.387	ug/l	99
38) Carbon Tetrachloride	8.10	117	146307	22.669	ug/l	95

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 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	161087	20.653	ug/l	98
40) Benzene	8.35	78	393110	22.528	ug/l	100
41) Methacrylonitrile	7.54	41	37427m	26.315	ug/l	
42) 1,2-Dichloroethane	8.43	62	109414	22.005	ug/l	98
43) Isopropyl Acetate	8.46	43	104189	21.098	ug/l	100
44) Trichloroethene	9.11	130	110900	22.141	ug/l	99
45) 1,2-Dichloropropane	9.39	63	98326	23.501	ug/l	98
46) Dibromomethane	9.48	93	50768	23.092	ug/l	98
47) Bromodichloromethane	9.67	83	134031	23.137	ug/l	98
48) Methyl methacrylate	9.46	41	47271	19.892	ug/l	95
49) 1,4-Dioxane	9.47	88	11837	454.573	ug/l	94
51) 4-Methyl-2-Pentanone	10.23	43	257148	105.789	ug/l	99
52) Toluene	10.41	92	251013	22.538	ug/l	97
53) t-1,3-Dichloropropene	10.63	75	125843	22.312	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	147997	21.940	ug/l	98
55) 1,1,2-Trichloroethane	10.81	97	67922	22.524	ug/l	97
56) Ethyl methacrylate	10.67	69	80165	21.010	ug/l	97
57) 1,3-Dichloropropane	10.95	76	119115	22.463	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	124490	88.720	ug/l	99
59) 2-Hexanone	10.99	43	185294	107.619	ug/l	97
60) Dibromochloromethane	11.14	129	90520	23.175	ug/l	99
61) 1,2-Dibromoethane	11.25	107	67109	22.775	ug/l	98
64) Tetrachloroethene	10.88	164	94705	21.484	ug/l	99
65) Chlorobenzene	11.68	112	266862	22.491	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	96783	22.100	ug/l	99
67) Ethyl Benzene	11.75	91	462446	21.452	ug/l	98
68) m/p-Xylenes	11.86	106	366622	44.559	ug/l	98
69) o-Xylene	12.18	106	156837	21.168	ug/l	98
70) Styrene	12.20	104	284822	22.118	ug/l	99
71) Bromoform	12.37	173	52090	22.099	ug/l	# 99
73) Isopropylbenzene	12.48	105	440090	21.454	ug/l	99
74) N-amyl acetate	12.30	43	91143	20.442	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	73144	22.656	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	49223m	21.754	ug/l	
77) Bromobenzene	12.77	156	106092	21.466	ug/l	98
78) n-propylbenzene	12.83	91	530516	22.084	ug/l	99
79) 2-Chlorotoluene	12.91	91	288237	21.526	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	363333	21.650	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	23632	20.887	ug/l	99
82) 4-Chlorotoluene	13.01	91	310288	22.064	ug/l	100
83) tert-Butylbenzene	13.23	119	295297	20.396	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	359185	21.559	ug/l	99
85) sec-Butylbenzene	13.41	105	427981	21.643	ug/l	100
86) p-Isopropyltoluene	13.53	119	392230	21.348	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	204316	22.080	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	199835	21.698	ug/l	99
89) n-Butylbenzene	13.86	91	366752	21.627	ug/l	99
90) Hexachloroethane	14.12	117	78170	22.469	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	172884	21.812	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.52	75	11216	21.282	ug/l	98

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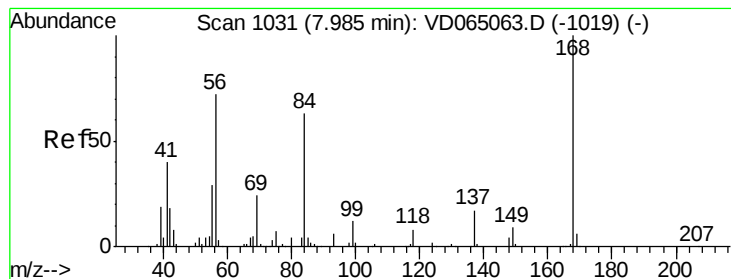
Manual Integrations
APPROVED

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2/12/2020 3:12:48 PM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	115739	20.431	ug/l	100
94) Hexachlorobutadiene	15.28	225	72123	20.706	ug/l	96
95) Naphthalene	15.41	128	177947	18.899	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	98207	20.267	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion:168 Resp: 461328

Ion Ratio Lower Upper

168 100

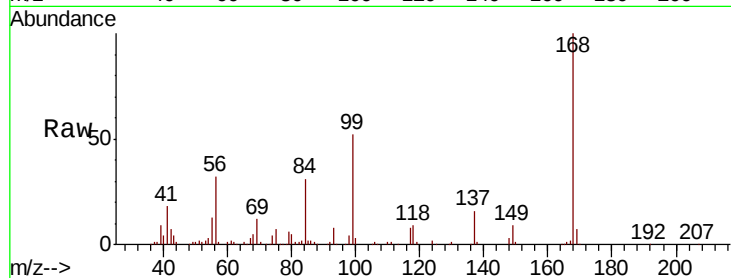
99 51.8 41.0 61.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

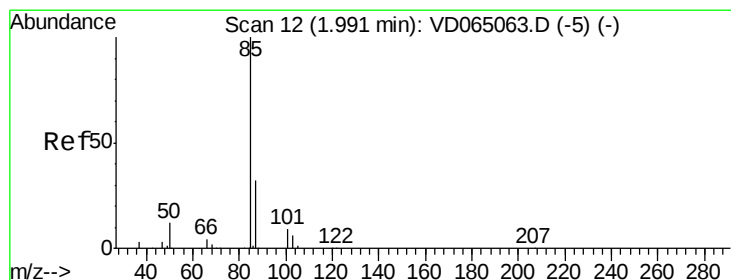
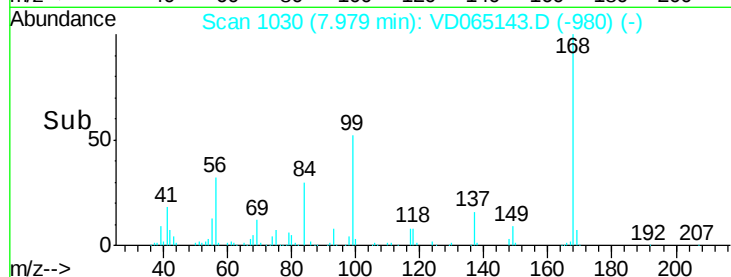
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50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.295 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065143.D

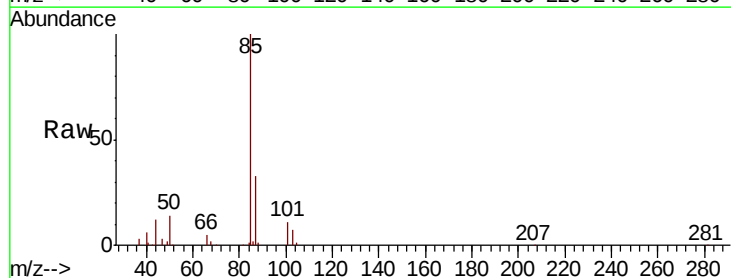
Acq: 11 Feb 2020 11:47

Tgt Ion: 85 Resp: 81752

Ion Ratio Lower Upper

85 100

87 33.4 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

50000

40000

30000

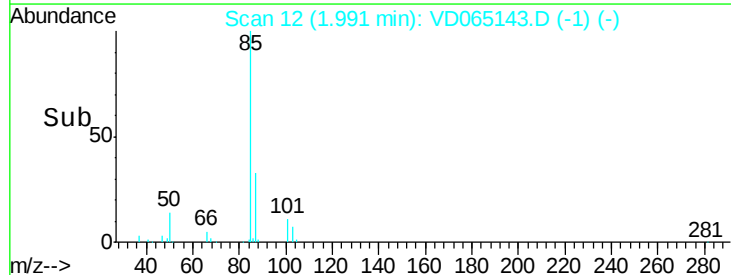
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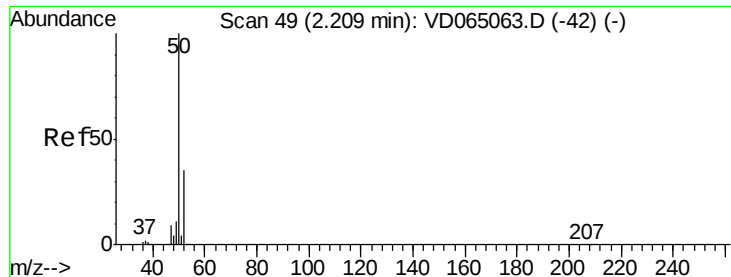
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0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 23.828 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 50 Resp: 107683

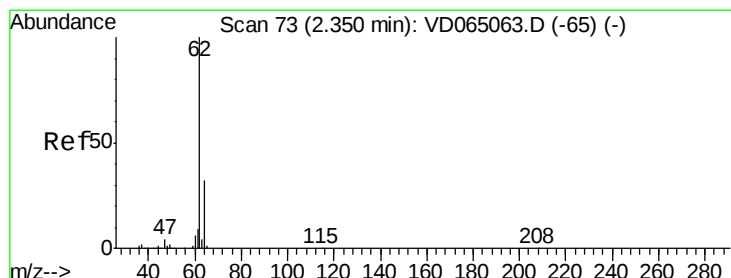
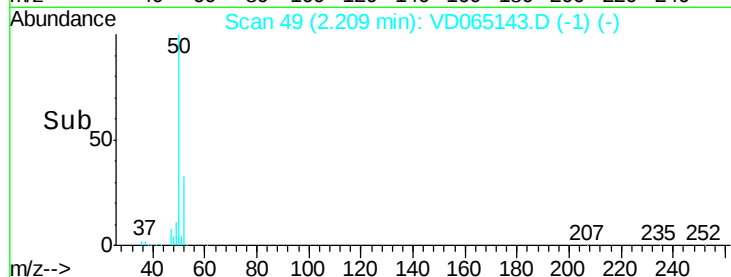
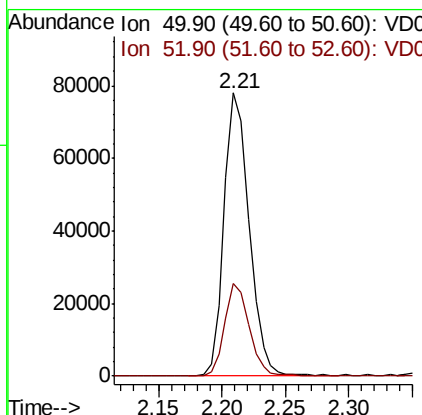
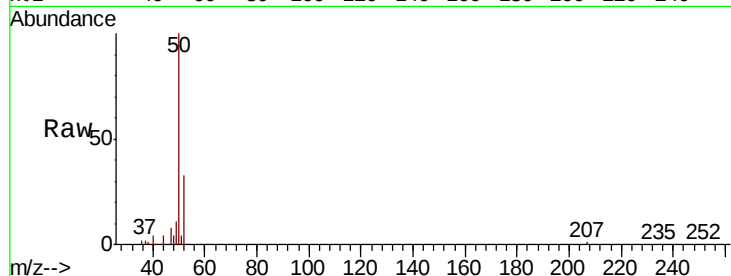
Ion Ratio Lower Upper

50 100

52 32.6 27.8 41.6

Manual Integrations
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#4

Vinyl Chloride

Concen: 23.284 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065143.D

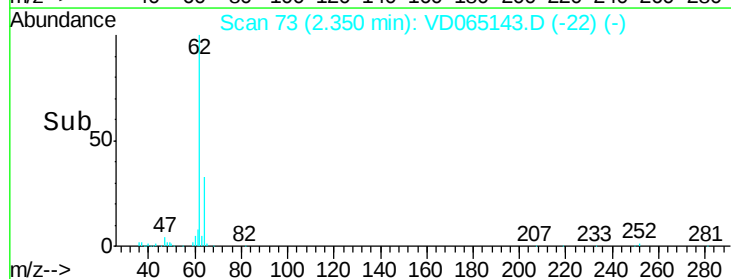
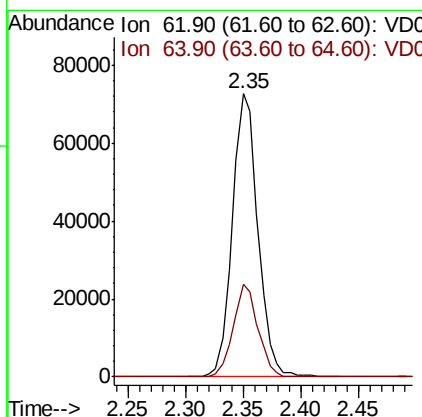
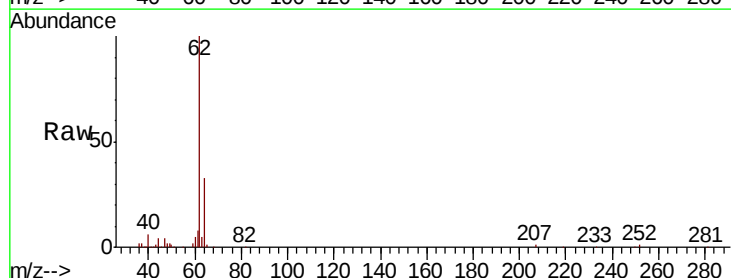
Acq: 11 Feb 2020 11:47

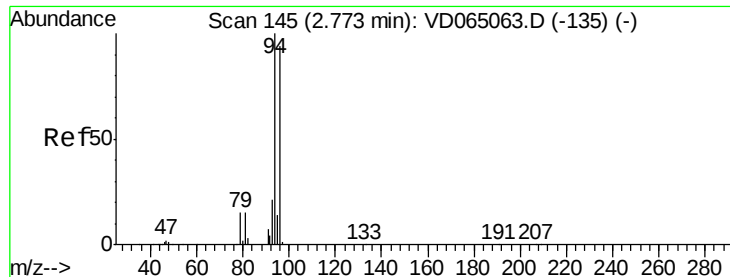
Tgt Ion: 62 Resp: 111280

Ion Ratio Lower Upper

62 100

64 32.6 25.9 38.9





#5

Bromomethane

Concen: 21.517 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 94 Resp: 66679

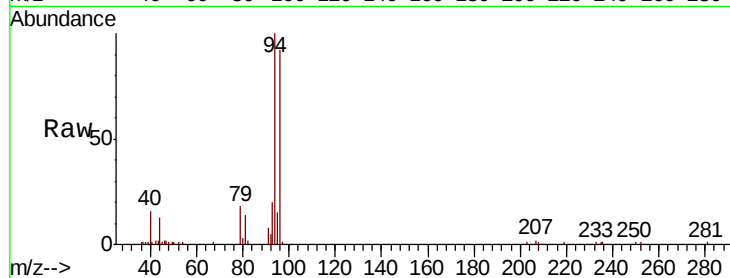
Ion Ratio Lower Upper

94 100

96 91.7 75.4 113.0

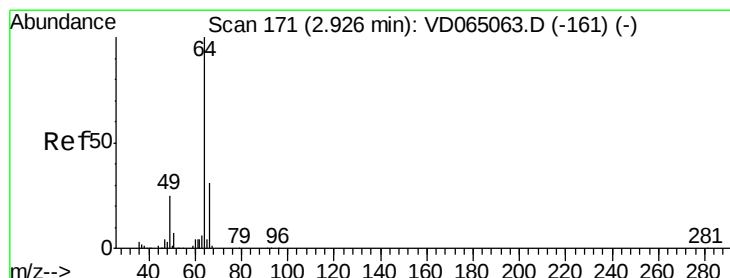
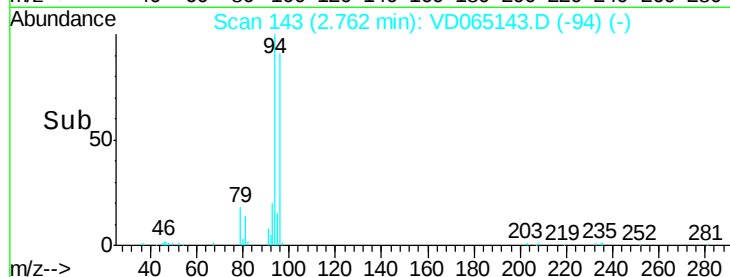
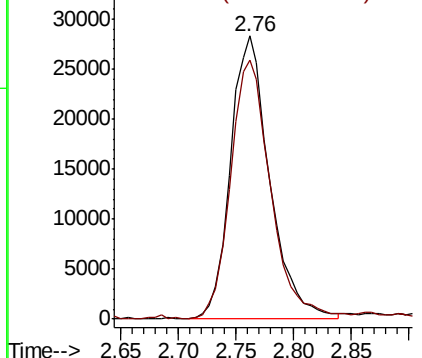
Manual Integrations
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 22.992 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065143.D

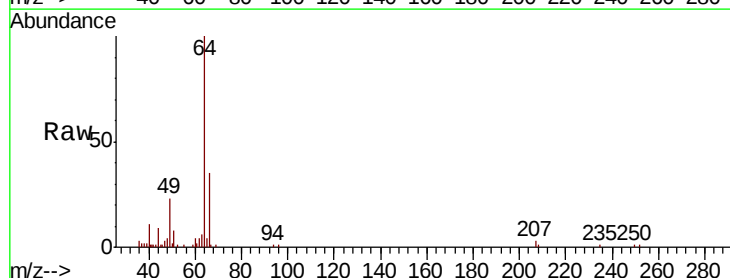
Acq: 11 Feb 2020 11:47

Tgt Ion: 64 Resp: 68164

Ion Ratio Lower Upper

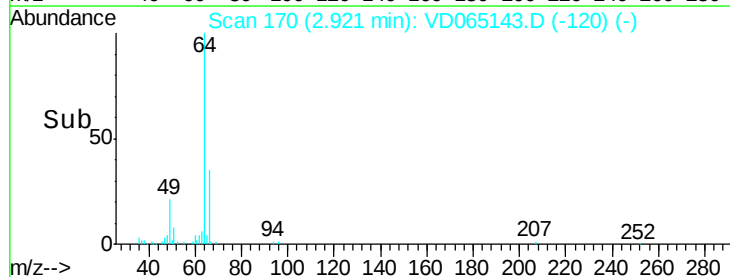
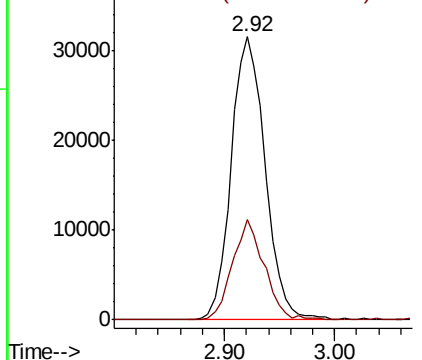
64 100

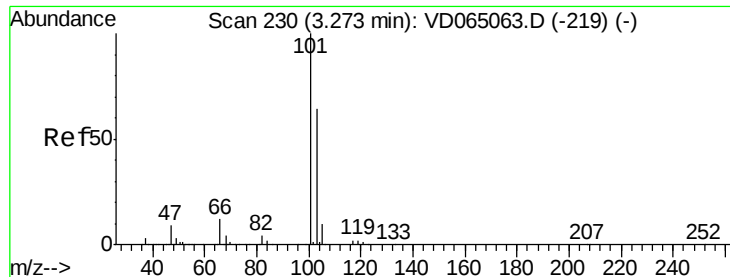
66 35.4 24.8 37.2



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

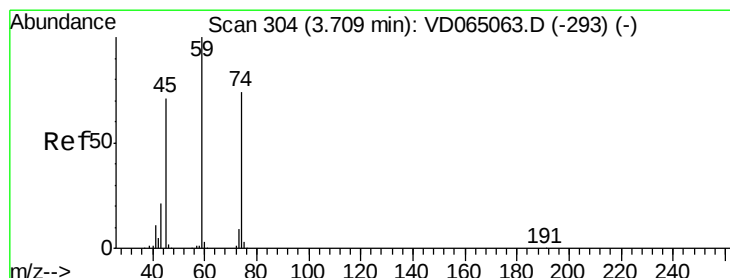
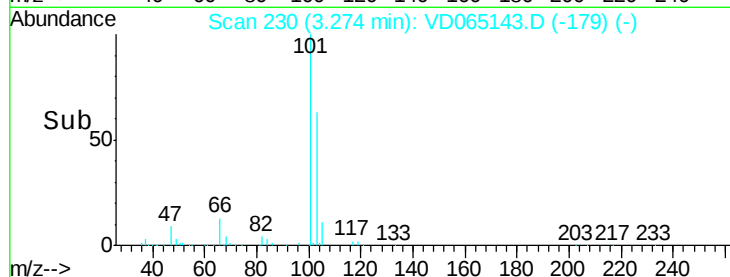
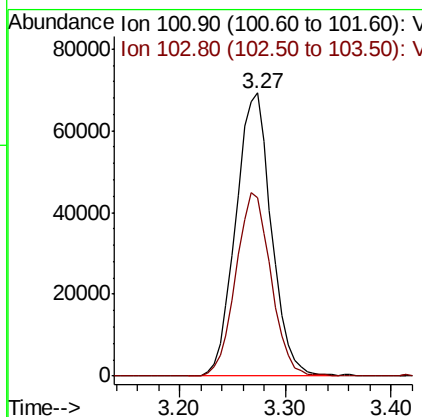
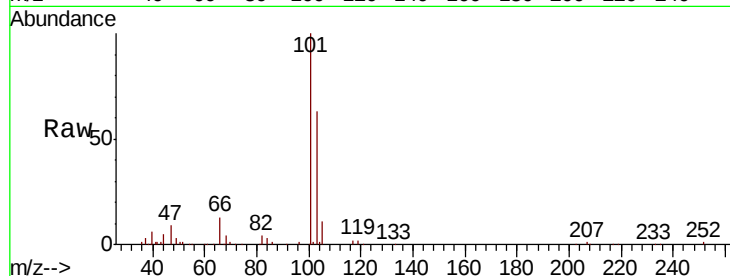
Trichlorofluoromethane
 Concen: 23.253 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.0	76.6

Manual Integrations
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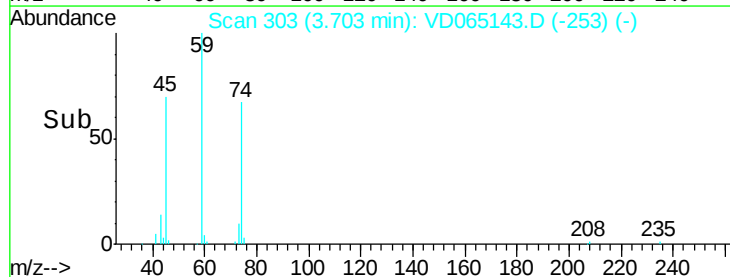
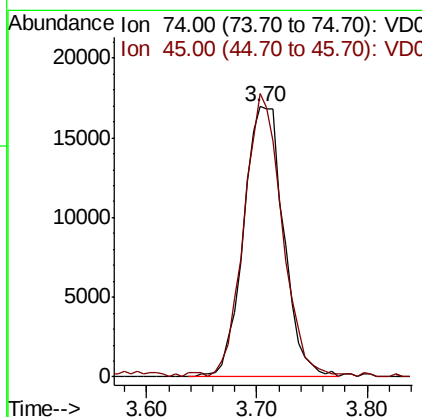
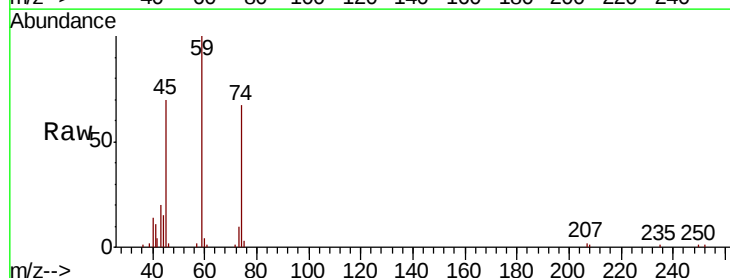
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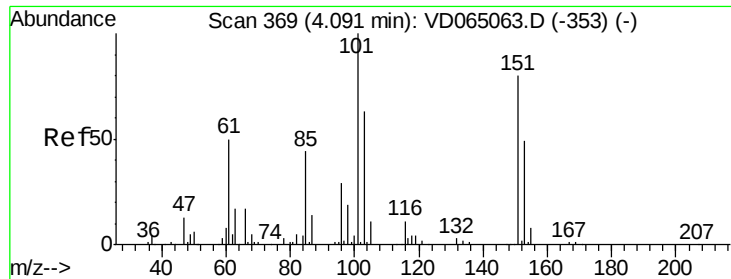


#8

Diethyl Ether
 Concen: 21.650 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.0	49.0	147.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.627 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

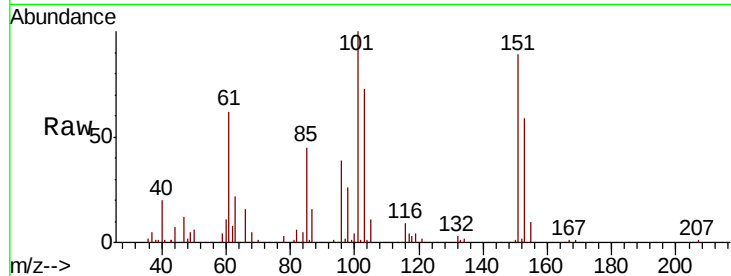
ClientSampleId :

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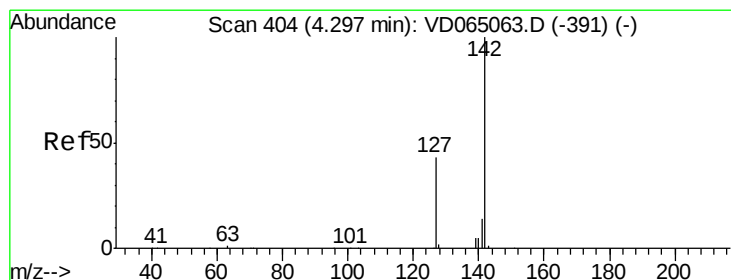
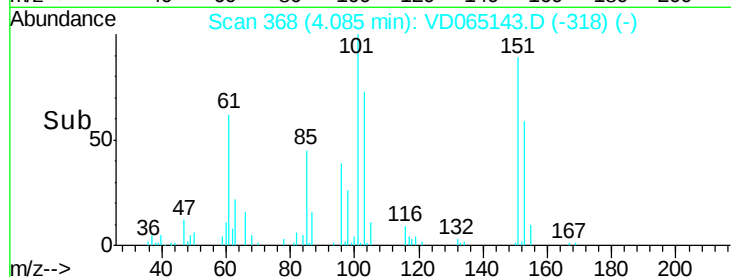
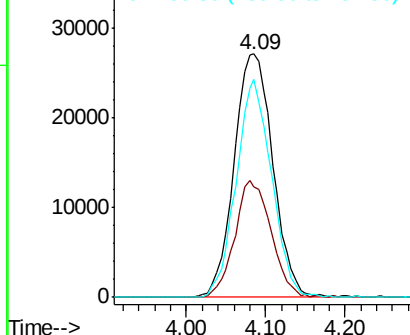
Tot Ion:	101	Resp:	91956
Ion Ratio	Lower	Upper	
101	100		
85	45.0	34.0	51.0
151	81.7	64.0	96.0

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.222 ug/l

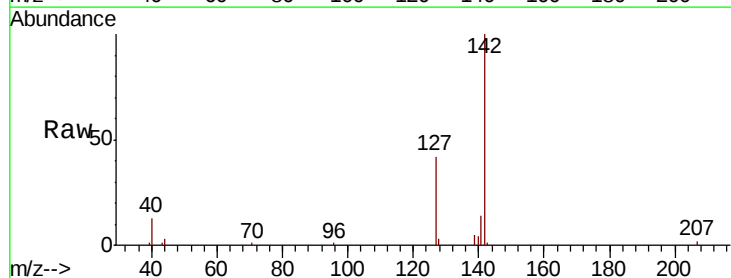
RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

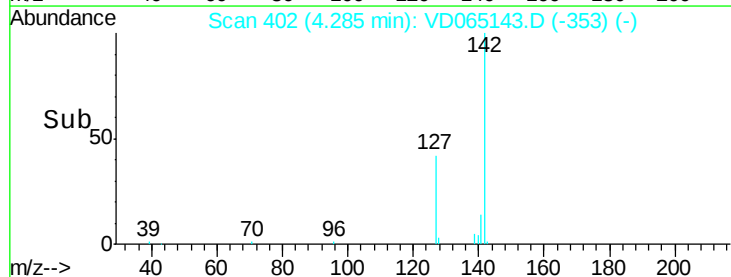
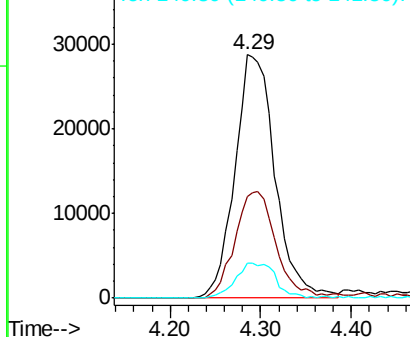
Lab File: VD065143.D

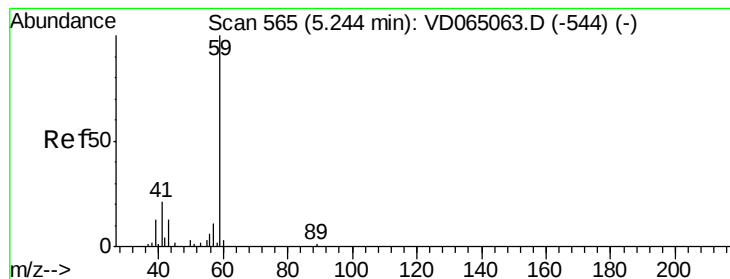
Acq: 11 Feb 2020 11:47

Tgt Ion:	142	Resp:	88434
Ion Ratio	Lower	Upper	
142	100		
127	44.5	34.0	51.0
141	14.4	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

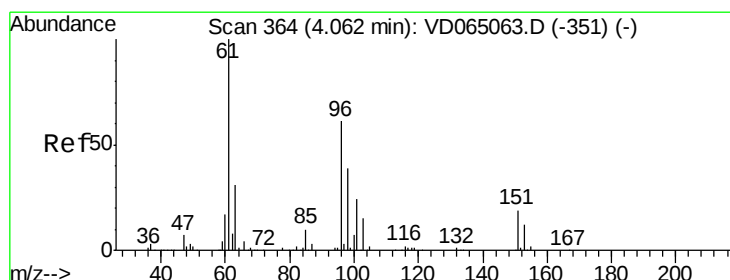
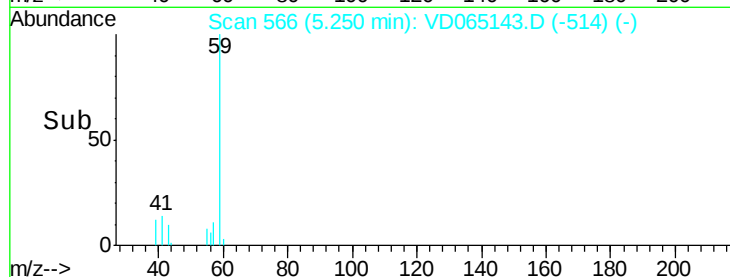
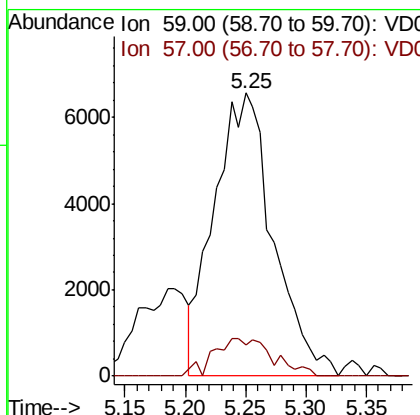
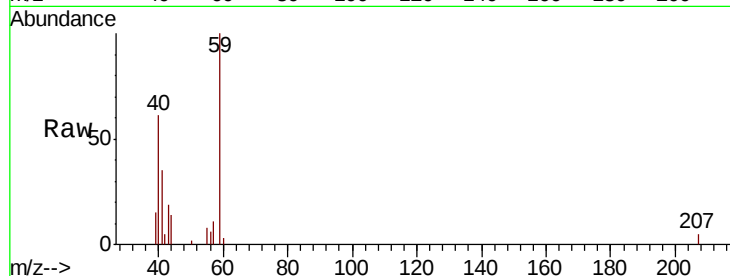
Tert butyl alcohol
 Concen: 92.878 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.5	8.8	13.2#

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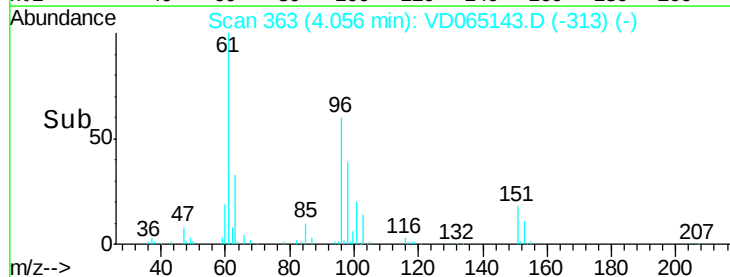
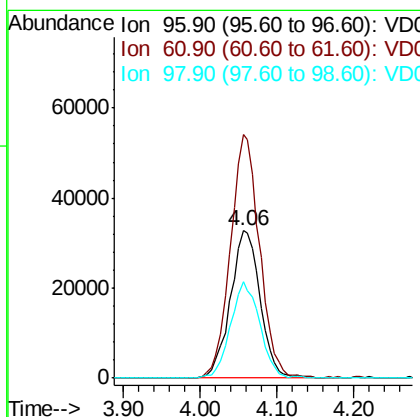
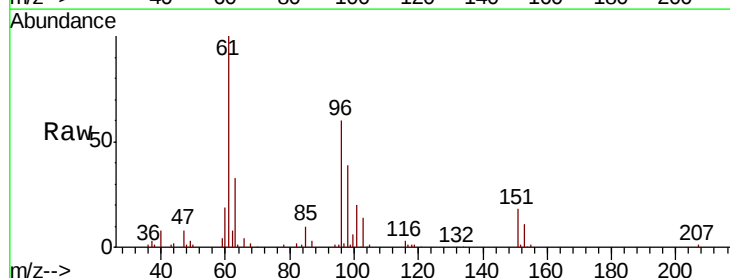
MMDadoda
 2/12/2020 3:12:48 PM



#12

1,1-Dichloroethene
 Concen: 21.732 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.3	131.4	197.2
98	65.0	51.1	76.7





#13

Acrolein

Concen: 87.564 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 56 Resp: 25801

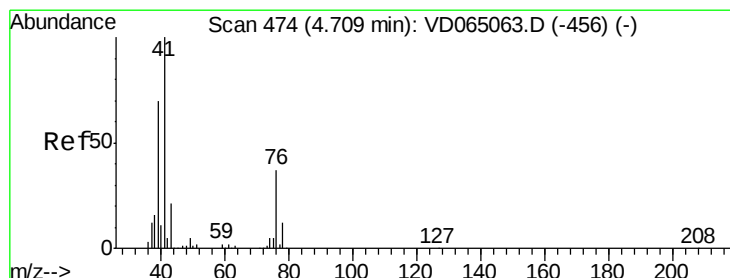
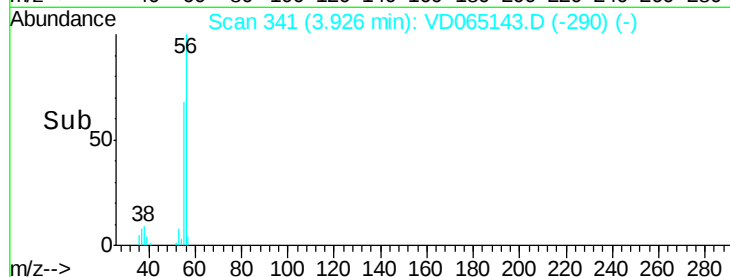
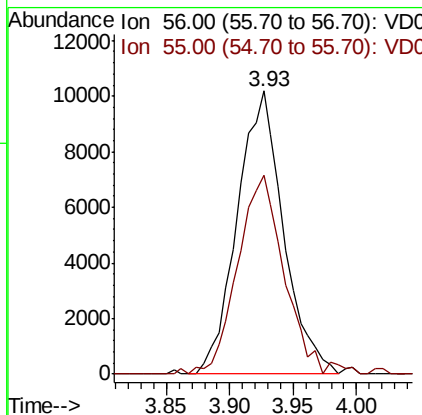
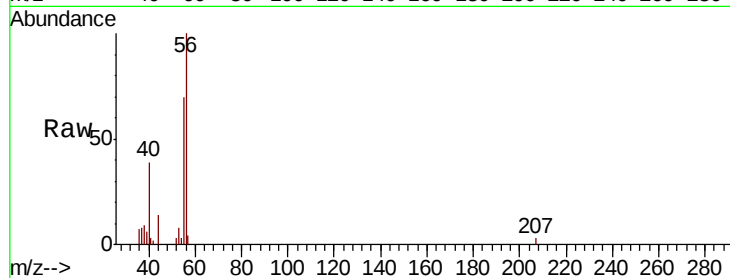
Ion Ratio Lower Upper

56 100

55 70.9 58.2 87.2

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#14

Allyl chloride

Concen: 21.519 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

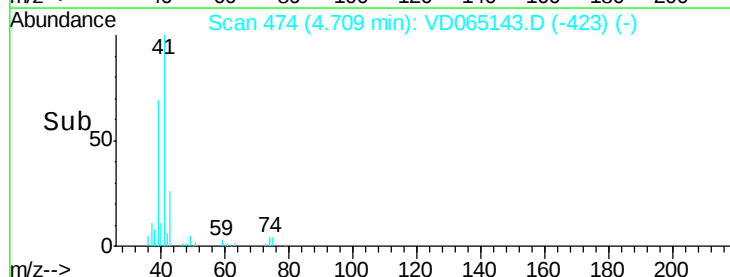
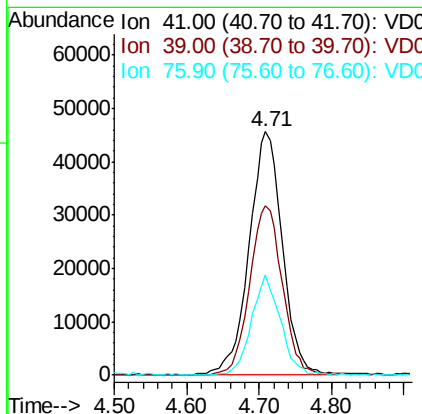
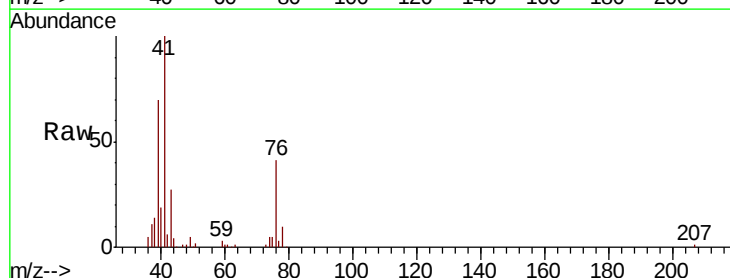
Tgt Ion: 41 Resp: 145642

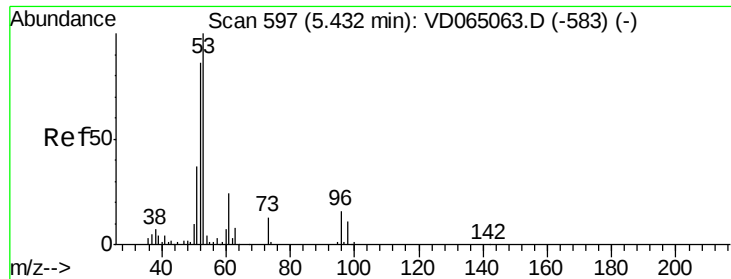
Ion Ratio Lower Upper

41 100

39 68.3 57.1 85.7

76 35.4 28.0 42.0





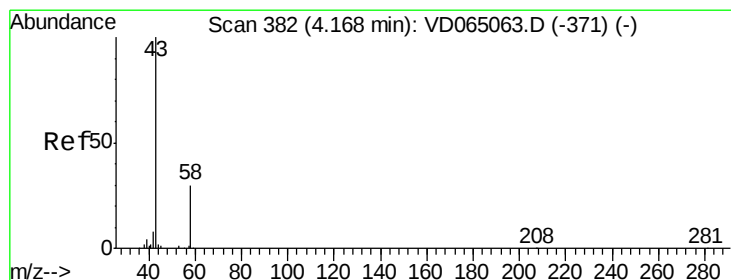
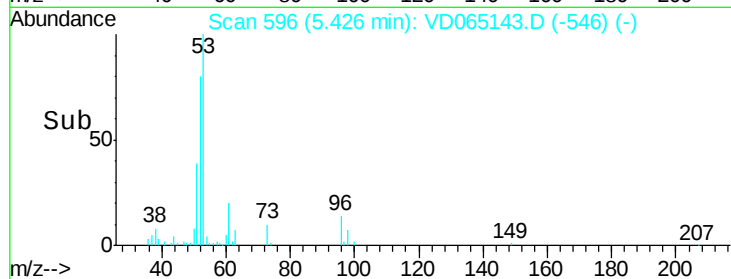
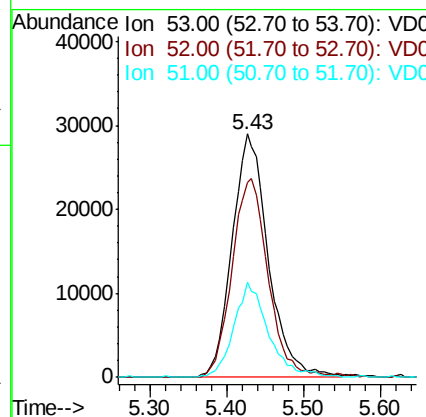
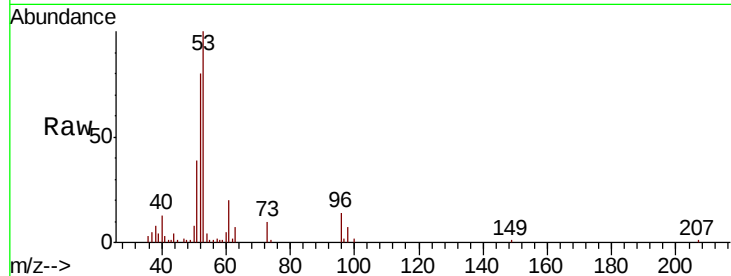
#15
 Acrylonitrile
 Concen: 108.745 ug/l
 RT: 5.43 min Scan# 596
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion:	53	Resp:	94928
Ion Ratio	Lower	Upper	
53	100		
52	81.6	66.2	99.2
51	37.3	30.4	45.6

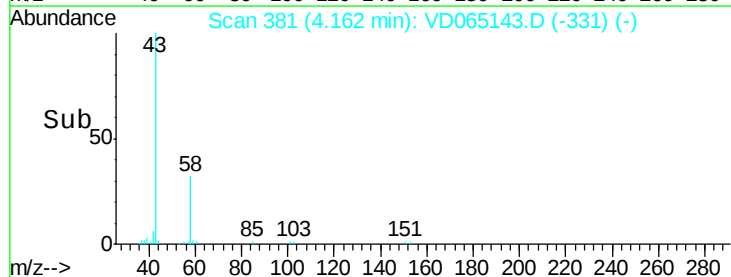
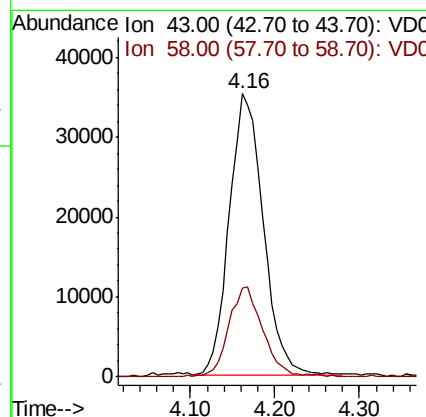
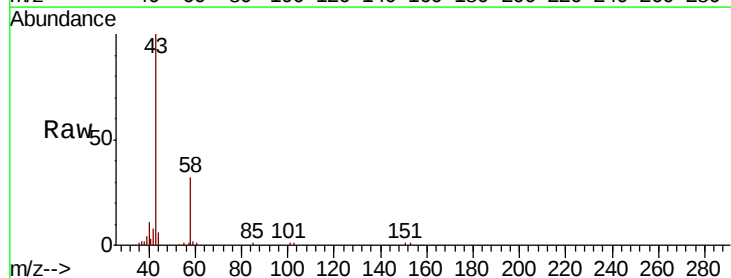
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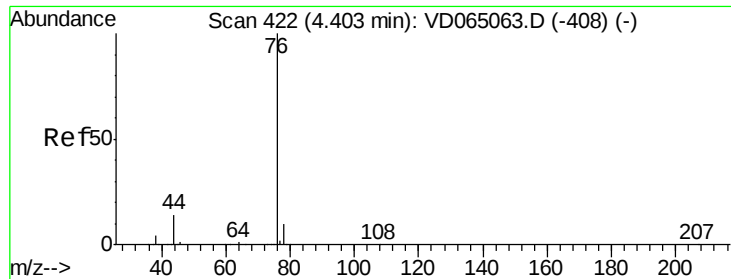
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#16
 Acetone
 Concen: 99.840 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion:	43	Resp:	97872
Ion Ratio	Lower	Upper	
43	100		
58	31.8	23.5	35.3





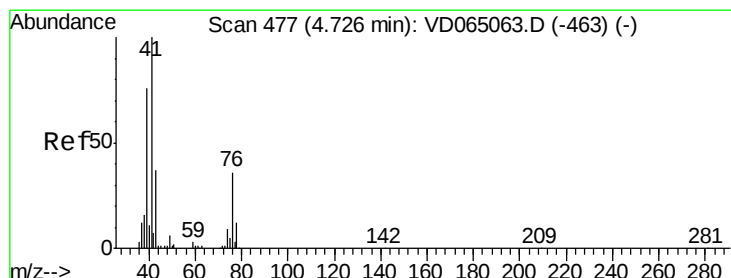
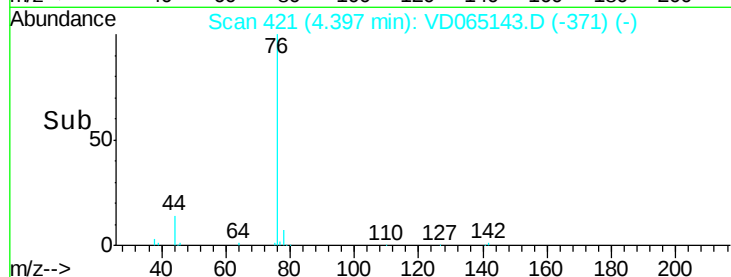
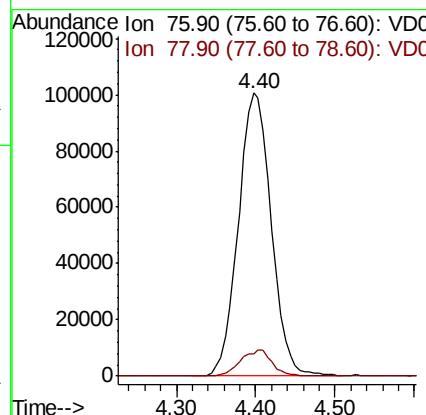
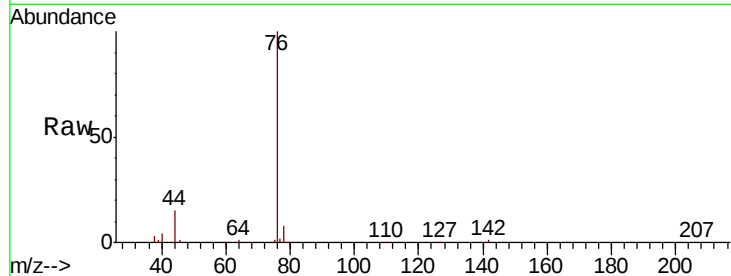
#17
Carbon Disulfide
Concen: 22.109 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.6	11.4

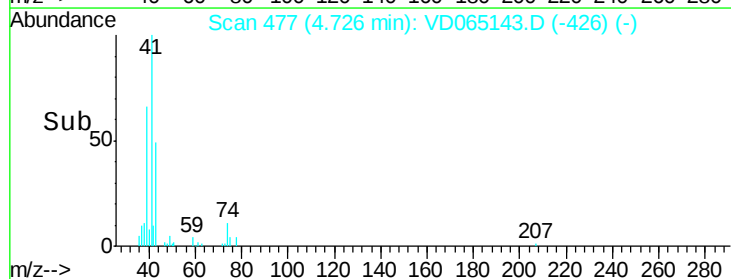
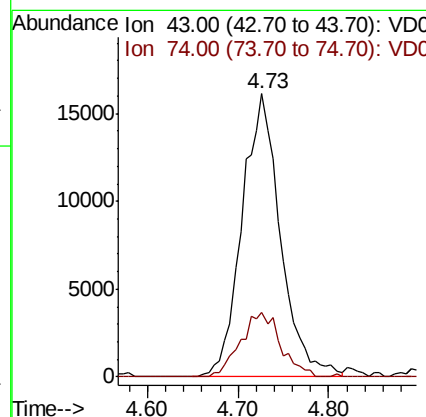
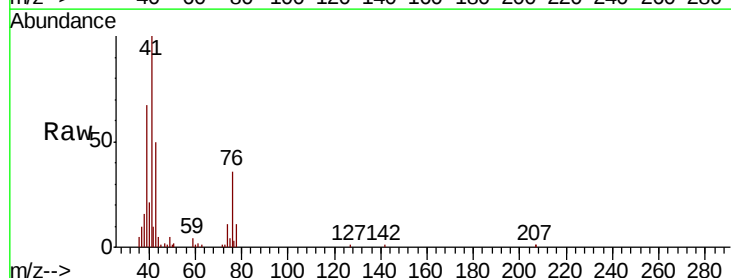
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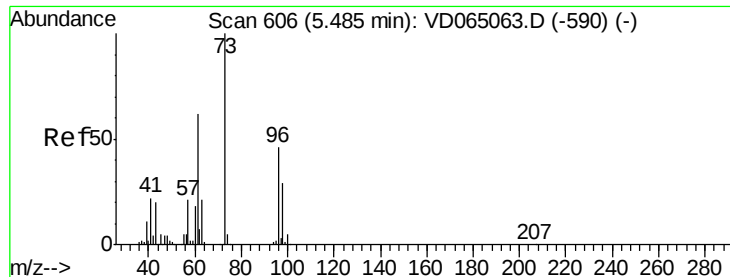
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#18
Methyl Acetate
Concen: 23.185 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.7	28.1





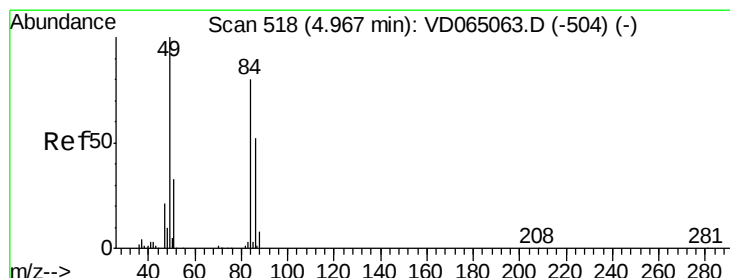
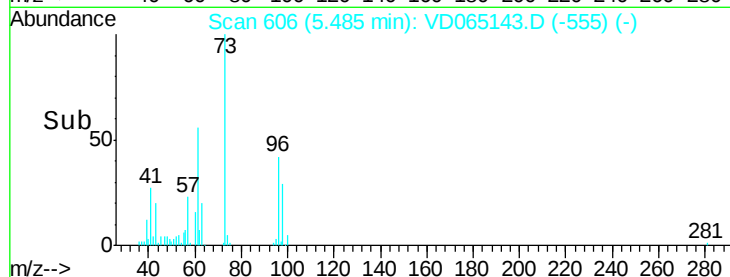
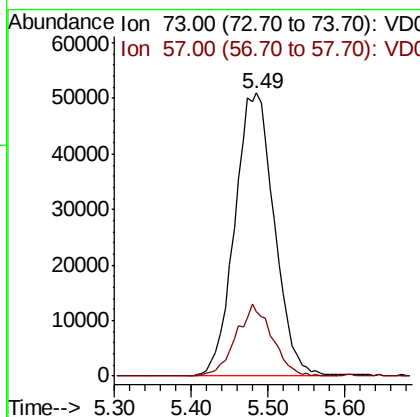
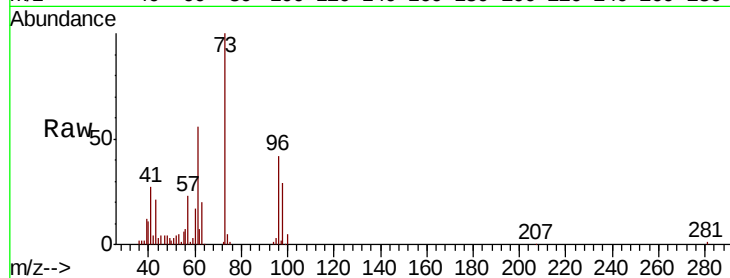
#19
Methvl tert-butvl Ether
Concen: 20.325 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	73	Resp	183028
Ion Ratio	100	Lower	Upper
73	100		
57	22.8	16.8	25.2

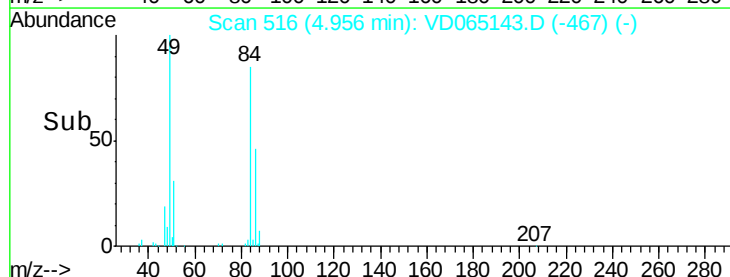
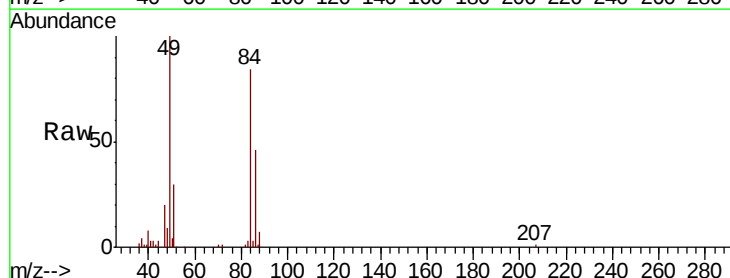
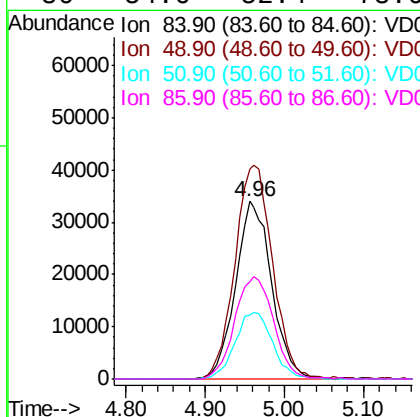
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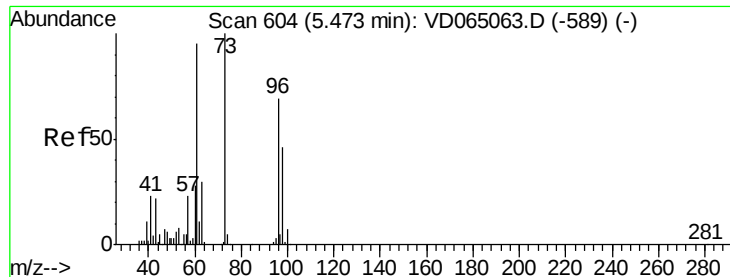
MMDadoda
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#20
Methylene Chloride
Concen: 22.670 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	84	Resp	107150
Ion Ratio	100	Lower	Upper
84	100		
49	118.5	100.4	150.6
51	36.0	32.7	49.1
86	54.6	52.4	78.6





#21

trans-1,2-Dichloroethene

Concen: 21.730 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

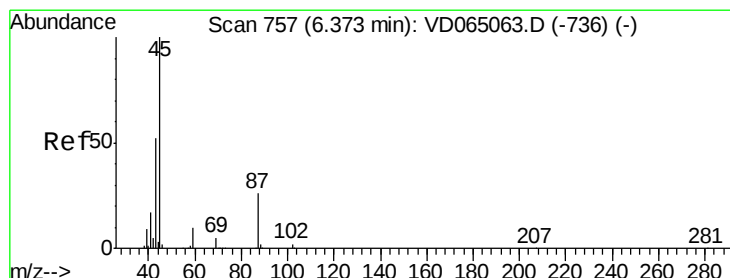
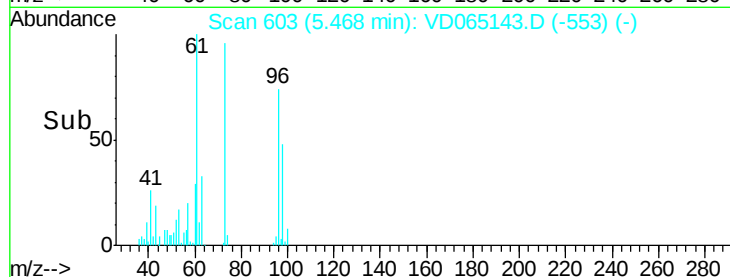
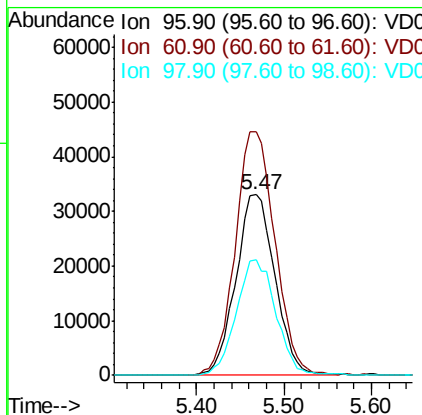
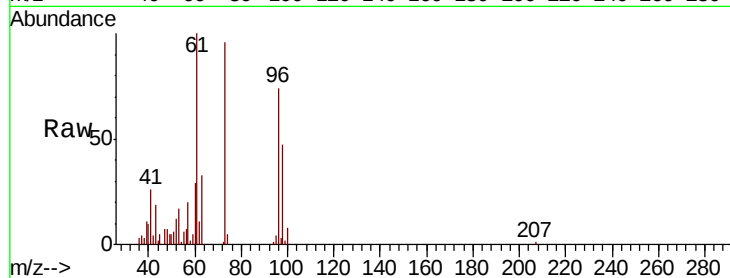
ClientSampleId :

VD0211SBS01

Tot Ion:	96	Resp:	100116
Ion	Ratio	Lower	Upper
96	100		
61	134.9	109.5	164.3
98	63.9	53.7	80.5

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.373 ug/l

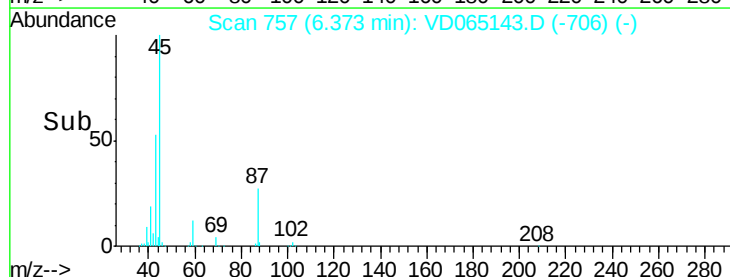
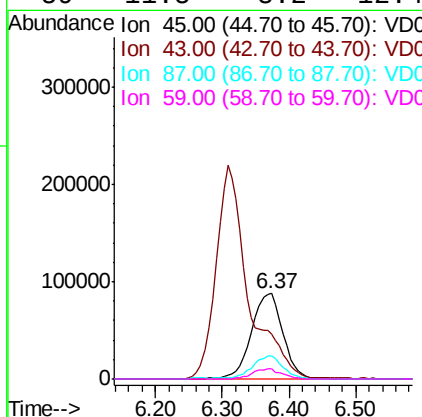
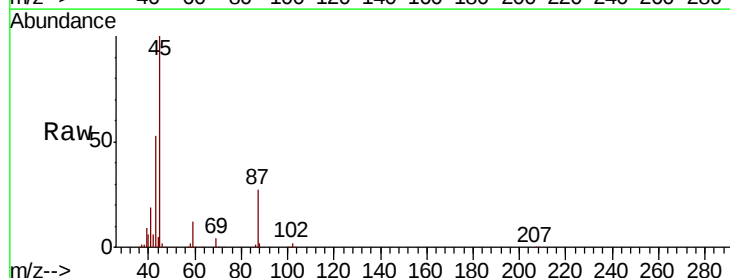
RT: 6.37 min Scan# 757

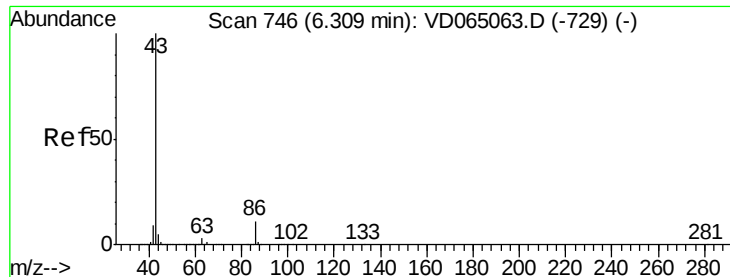
Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	45	Resp:	285617
Ion	Ratio	Lower	Upper
45	100		
43	52.2	41.3	61.9
87	27.2	21.0	31.6
59	11.5	8.2	12.4





#23

Vinyl Acetate

Concen: 104.570 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 43 Resp: 744067

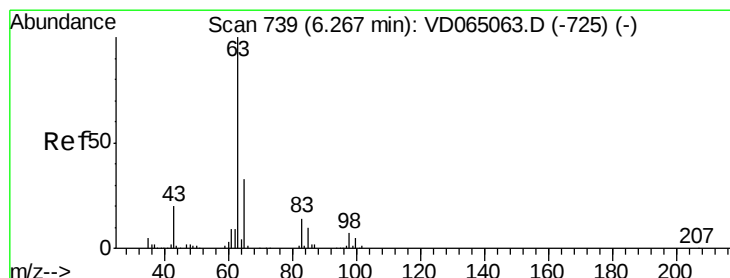
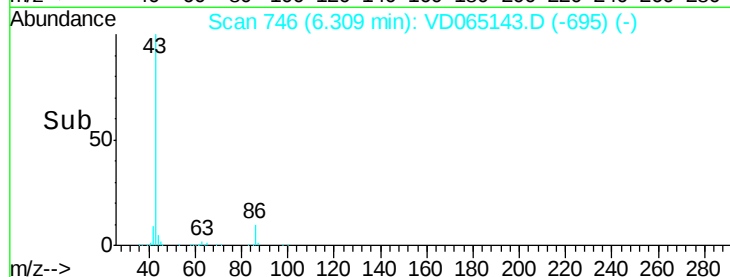
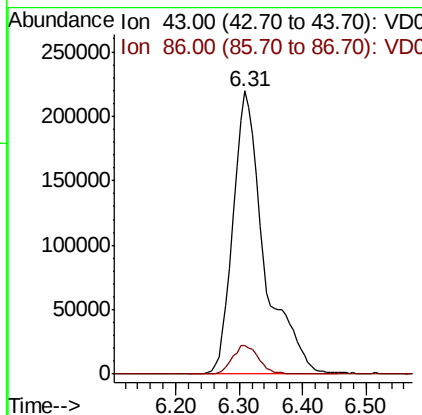
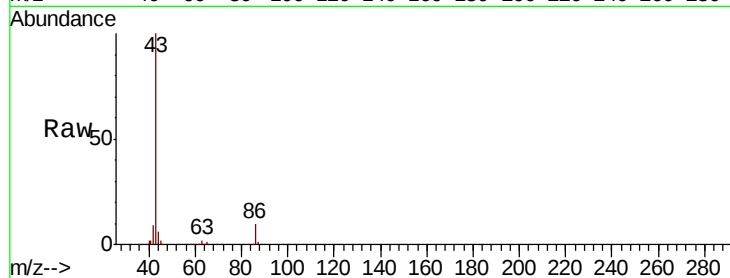
Ion Ratio Lower Upper

43 100

86 10.2 8.5 12.7

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#24

1,1-Dichloroethane

Concen: 22.581 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

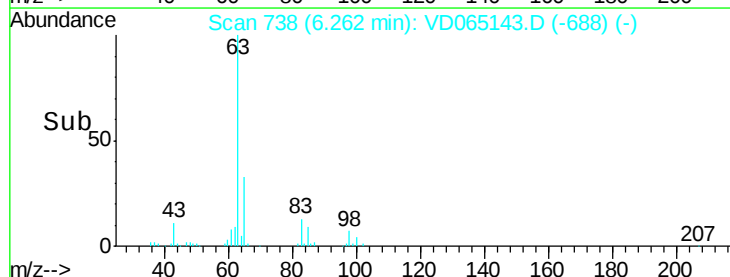
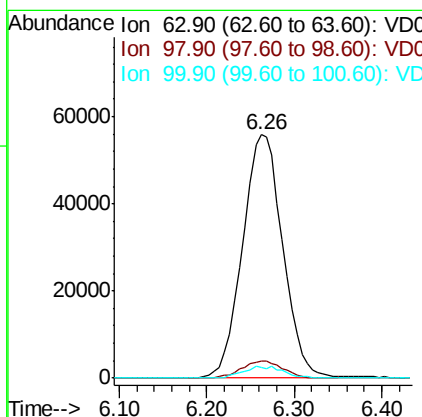
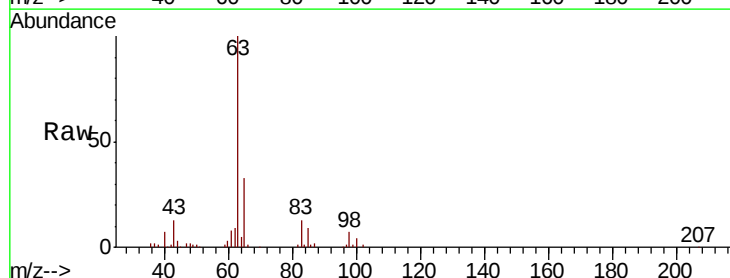
Tgt Ion: 63 Resp: 174483

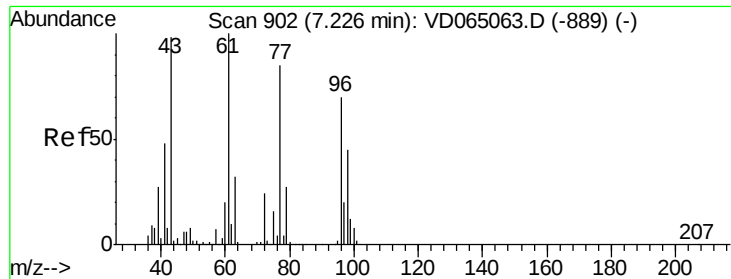
Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.4

100 4.3 2.5 7.6





#25

2-Butanone

Concen: 105.836 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 43 Resp: 123758

Ion Ratio Lower Upper

43 100

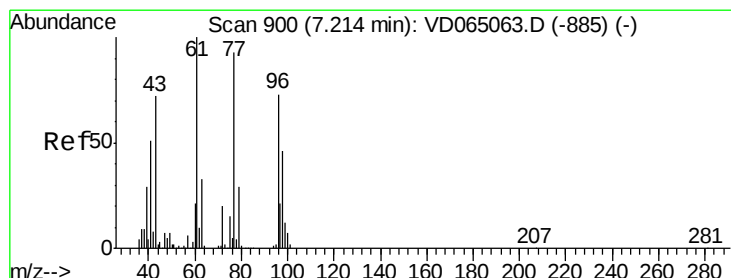
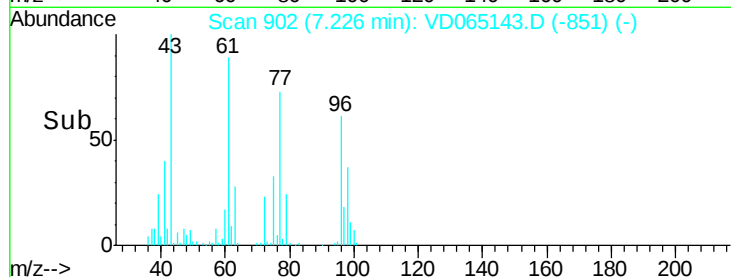
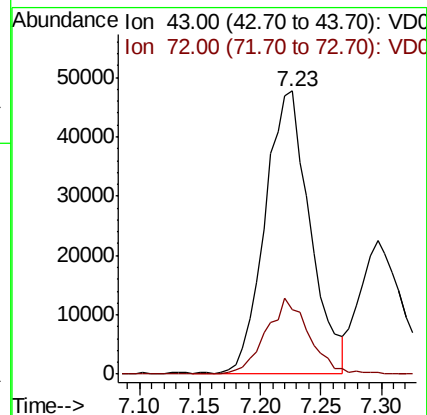
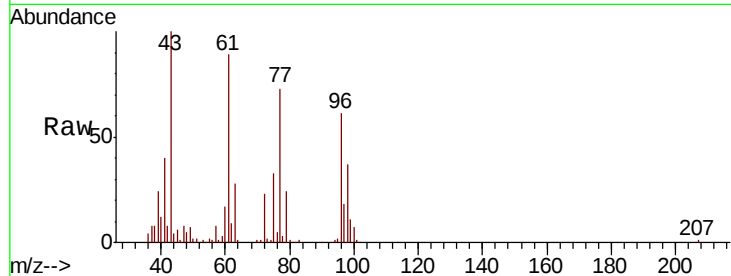
72 22.8 19.9 29.9

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 22.416 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065143.D

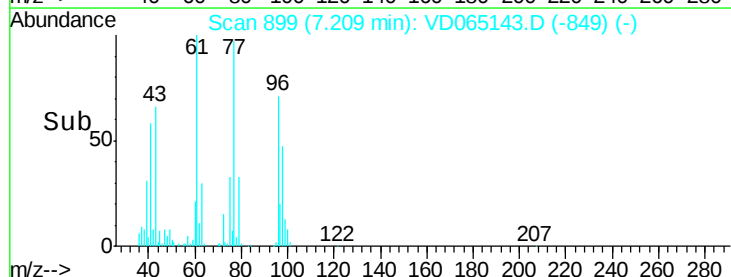
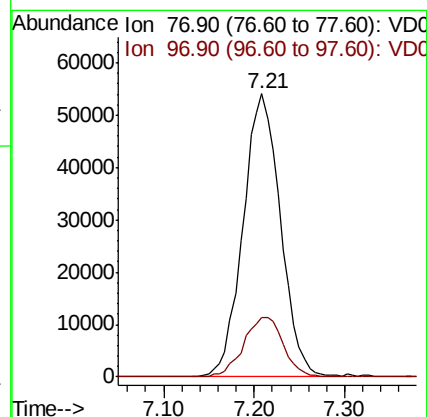
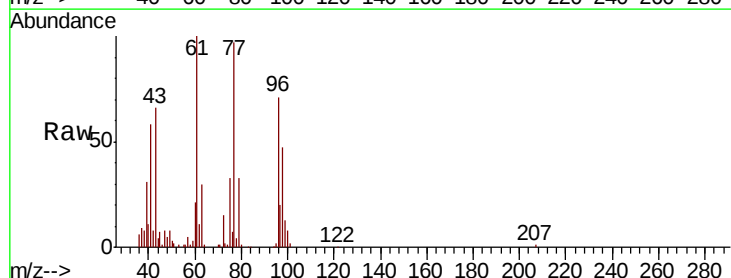
Acq: 11 Feb 2020 11:47

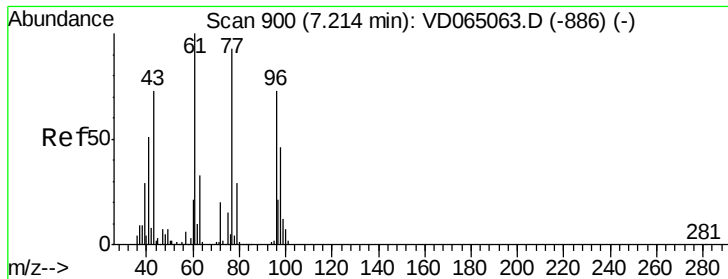
Tgt Ion: 77 Resp: 155249

Ion Ratio Lower Upper

77 100

97 22.2 10.9 32.6





#27

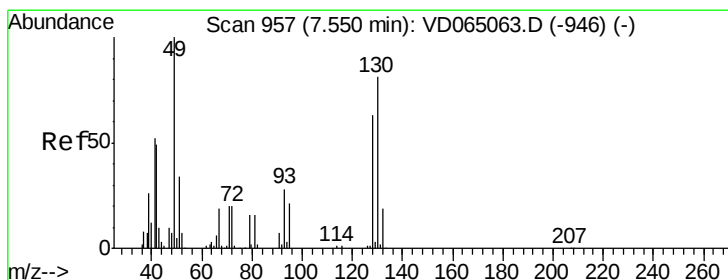
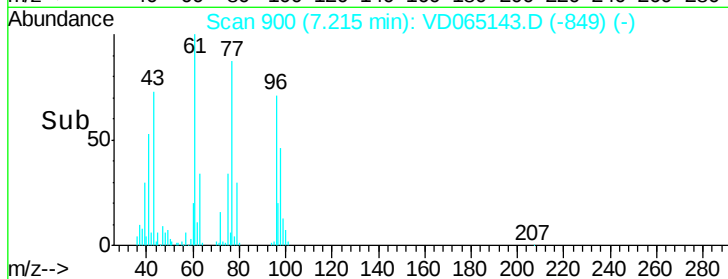
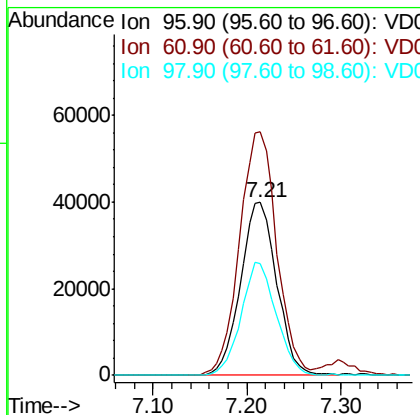
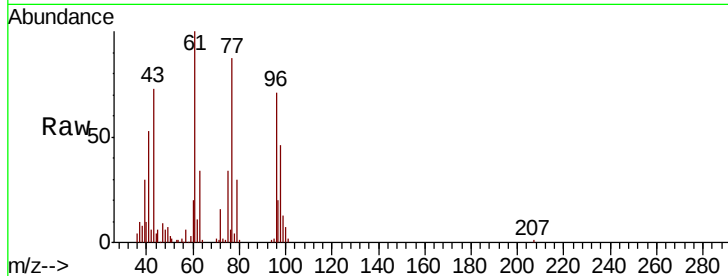
cis-1,2-Dichloroethene
Concen: 21.736 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Resp Lower	Upper
96	100		
61	144.4	0.0	292.8
98	63.3	0.0	128.8

Manual Integrations
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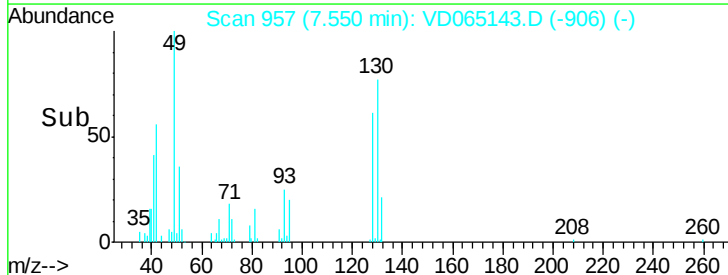
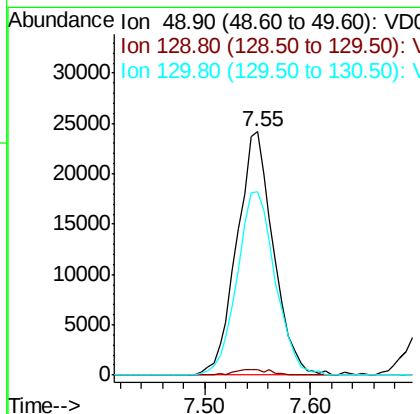
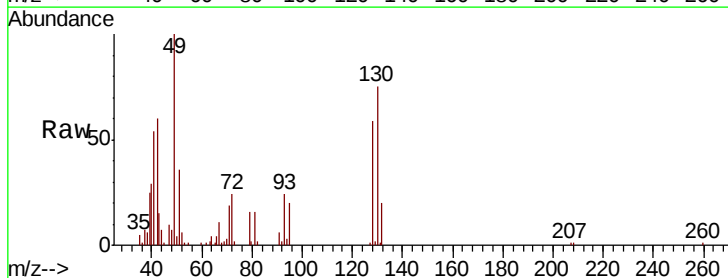
MMDadoda
2/12/2020 3:12:48 PM

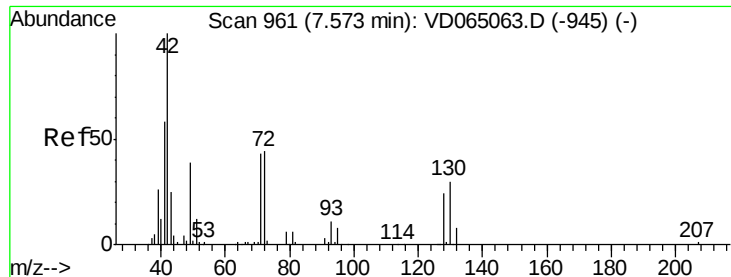


#28

Bromochloromethane
Concen: 19.794 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Resp Lower	Upper
49	100		
129	2.3	0.0	4.4
130	78.5	63.8	95.8





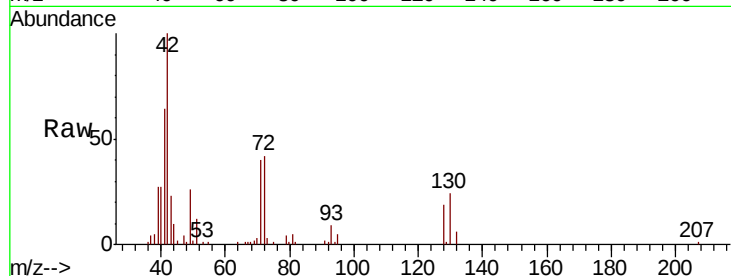
#29
Tetrahydrofuran
Concen: 105.499 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

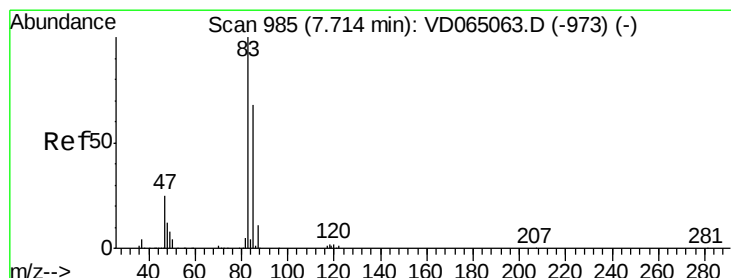
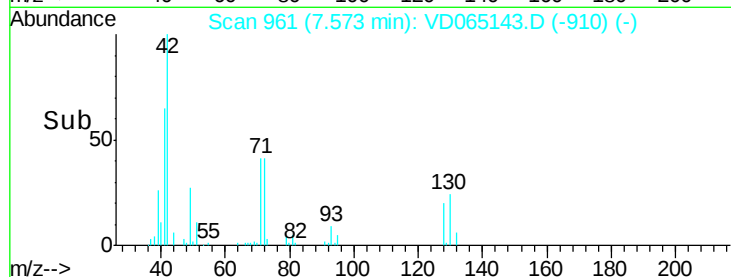
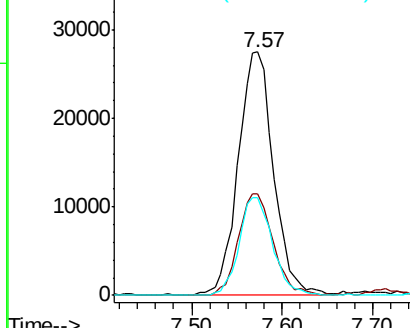
Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	34.2	51.4
71	38.0	31.8	47.6

Manual Integrations
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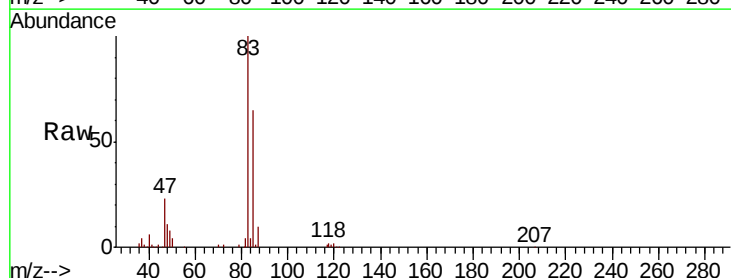


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

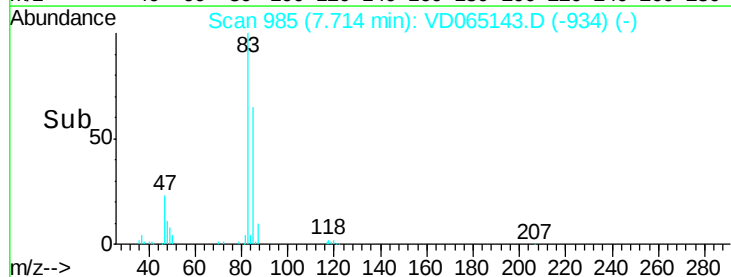
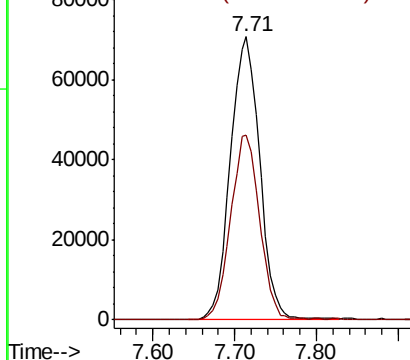


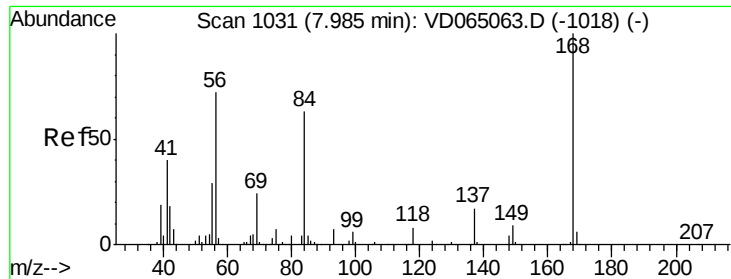
#30
Chloroform
Concen: 23.049 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	54.2	81.4



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC





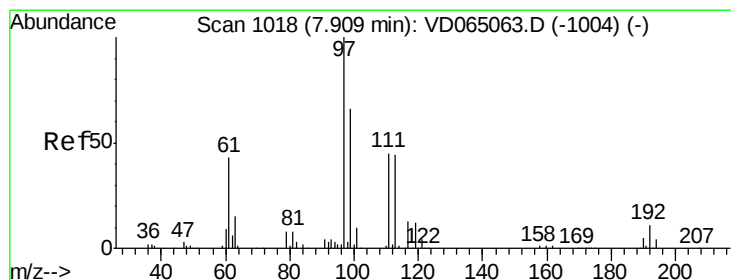
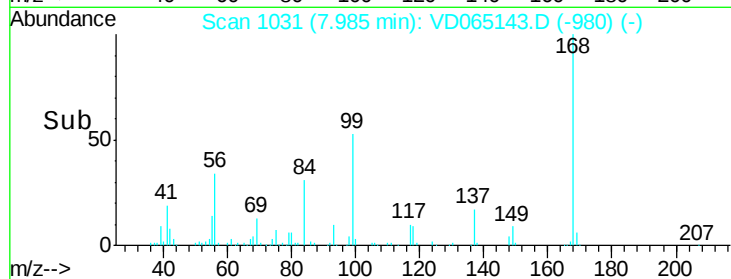
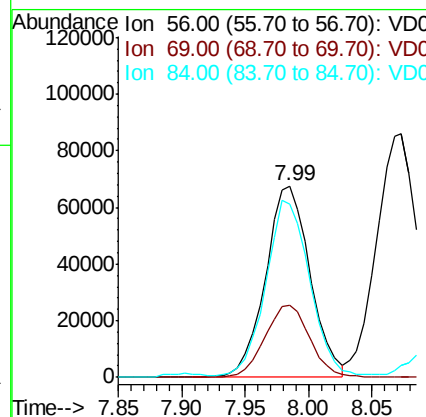
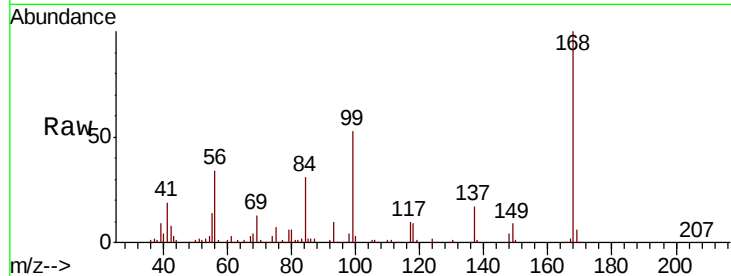
#31
Cyclohexane
Concen: 21.243 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.4	26.6	40.0
84	89.4	70.6	106.0

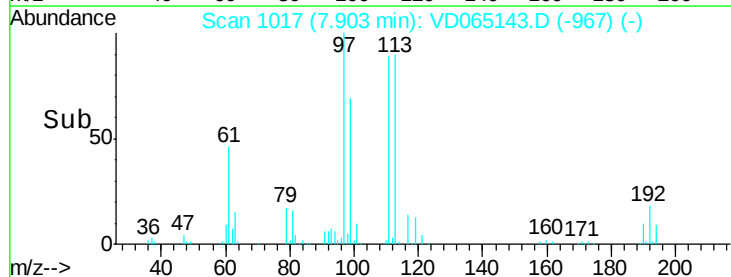
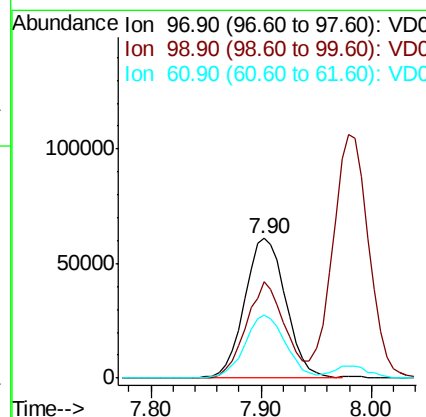
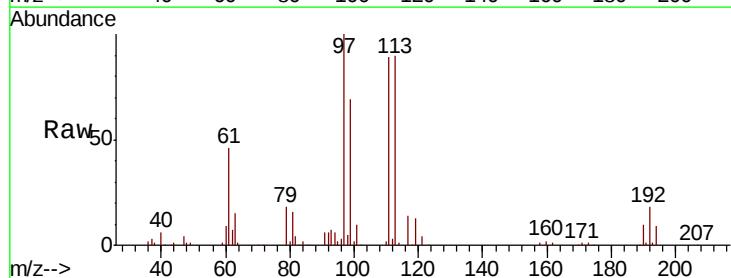
Manual Integrations
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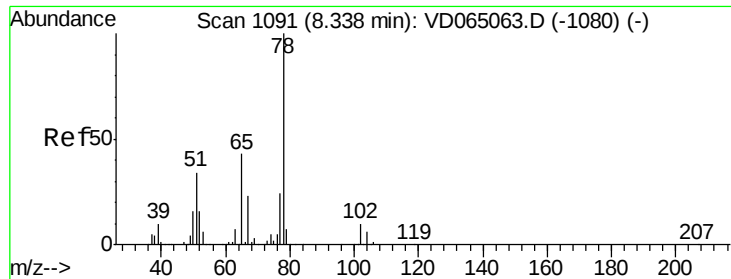
MMDadoda
2/12/2020 3:12:48 PM



#32
1,1,1-Trichloroethane
Concen: 22.278 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.5	77.3
61	44.4	34.8	52.2





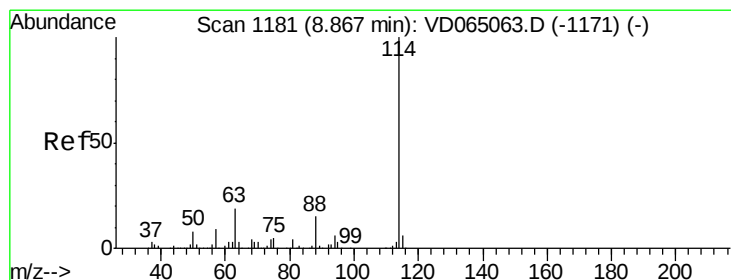
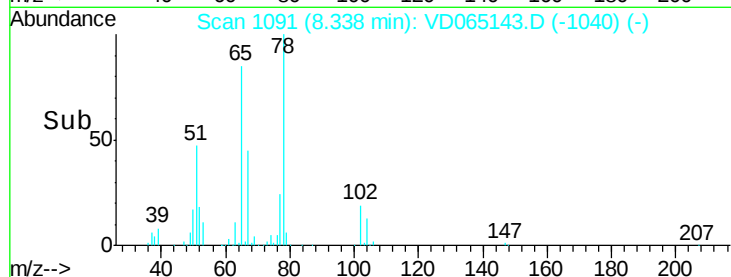
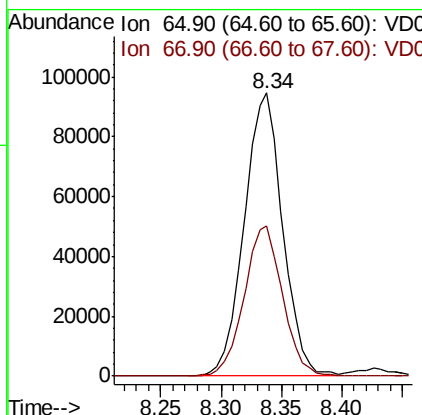
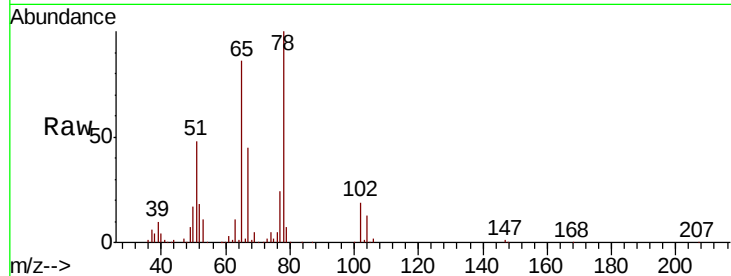
#33
 1,2-Dichloroethane-d4
 Concen: 53.290 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	208945		
67	53.1	0.0	105.8	

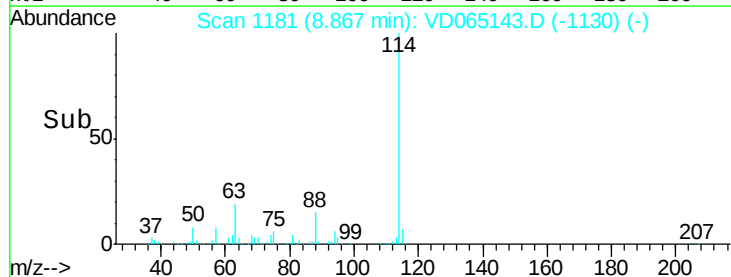
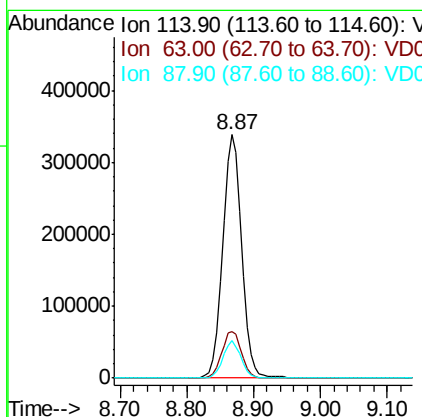
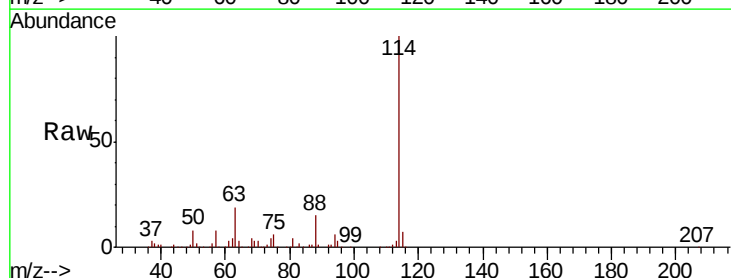
Manual Integrations
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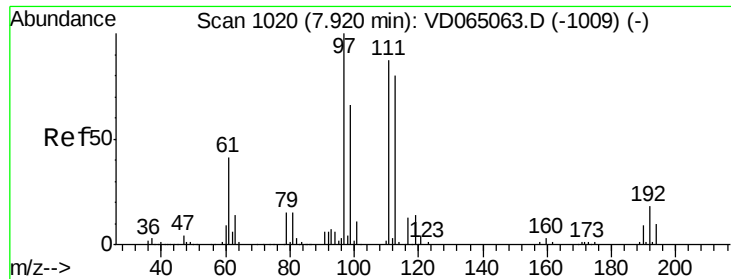
MMDadoda
 2/12/2020 3:12:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	679586		
63	19.0	0.0	38.8	
88	15.5	0.0	29.6	





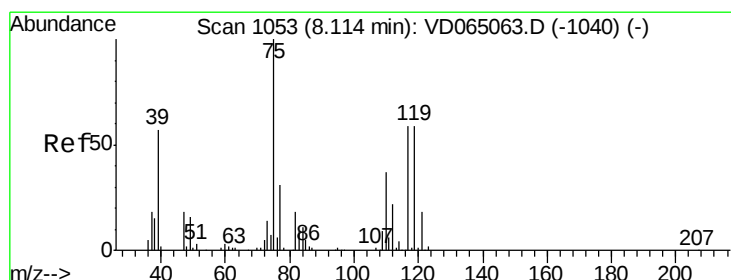
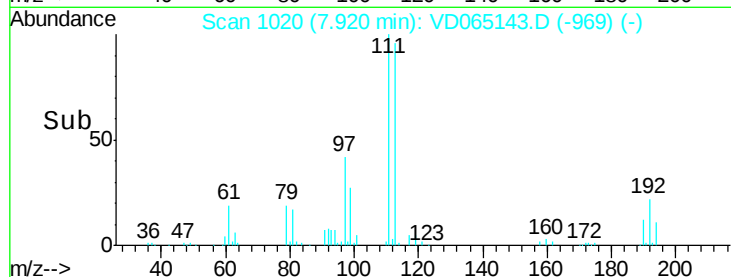
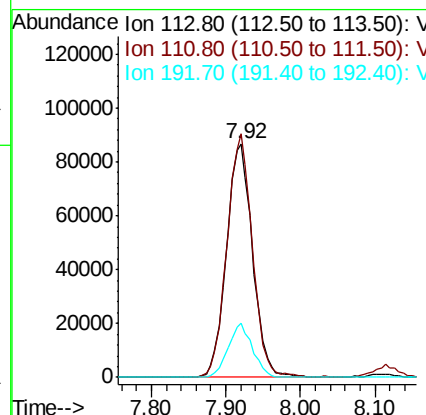
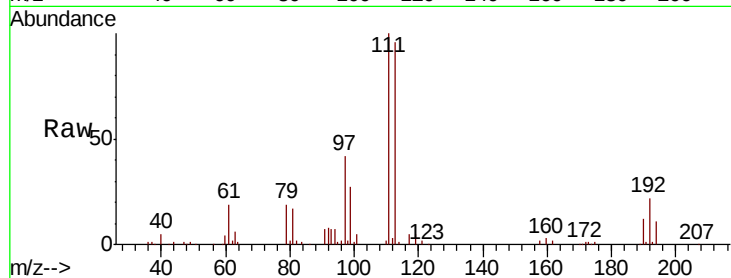
#35
 Dibromofluoromethane
 Concen: 55.670 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	211082		
111	101.6	83.1	124.7	
192	21.5	18.1	27.1	

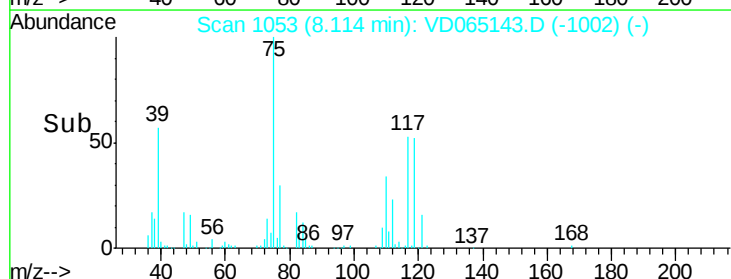
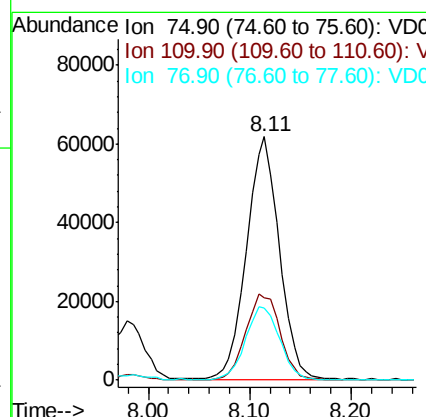
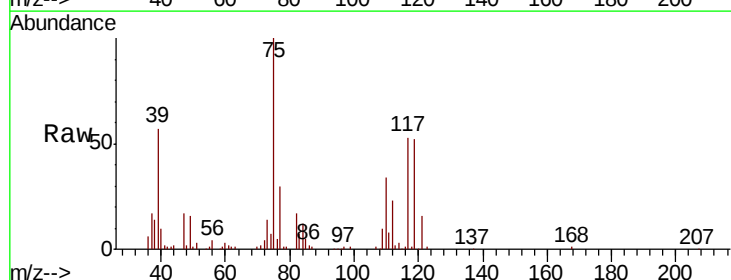
Manual Integrations
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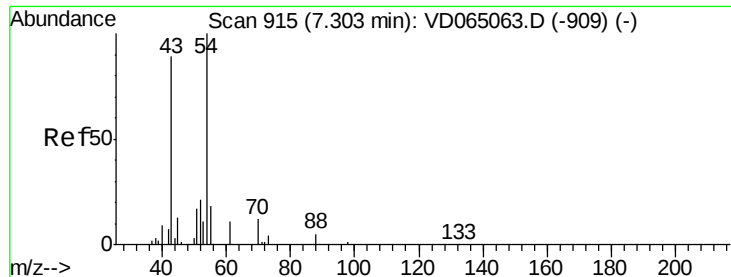
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 21.939 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138634		
110	37.4	18.1	54.3	
77	31.6	24.7	37.1	





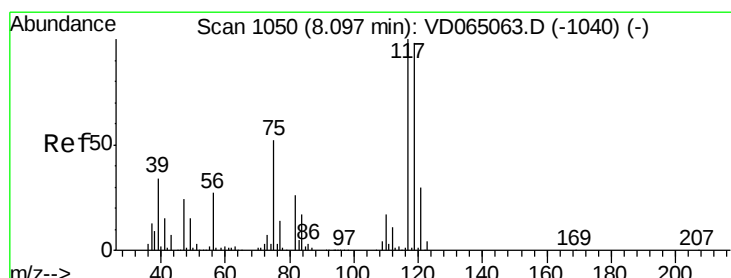
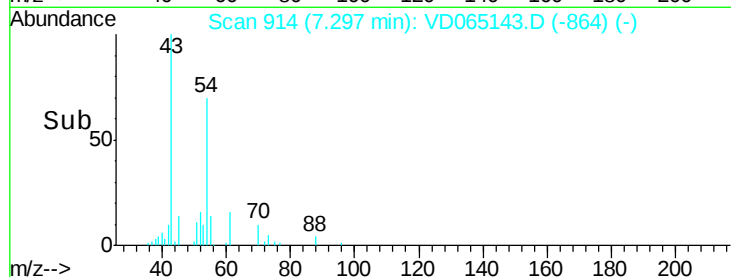
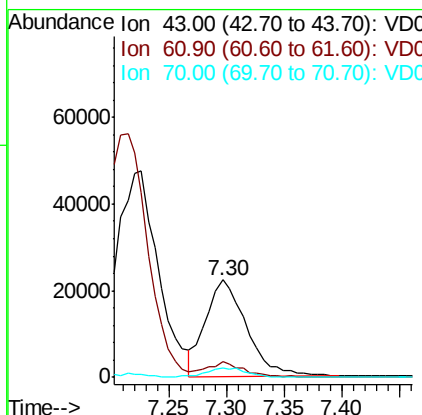
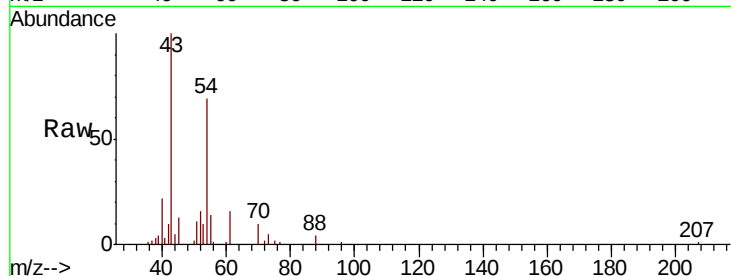
#37
Ethyl Acetate
Concen: 21.387 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.4
70	9.7	8.2	12.2

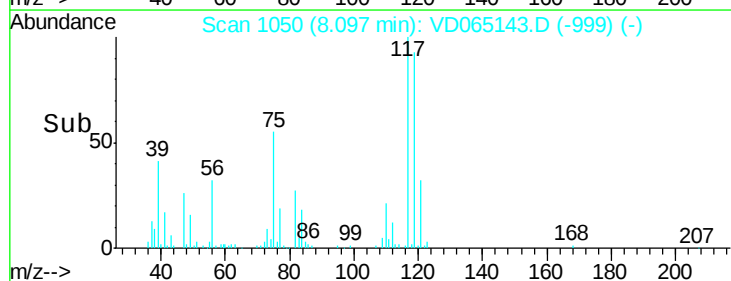
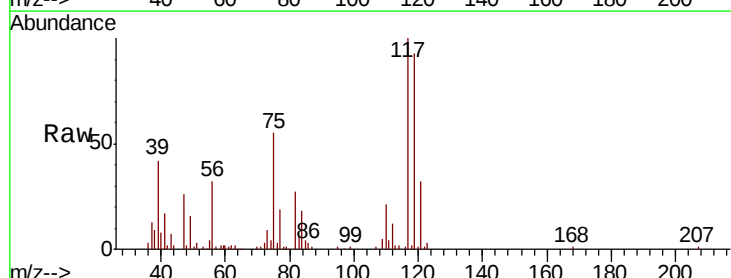
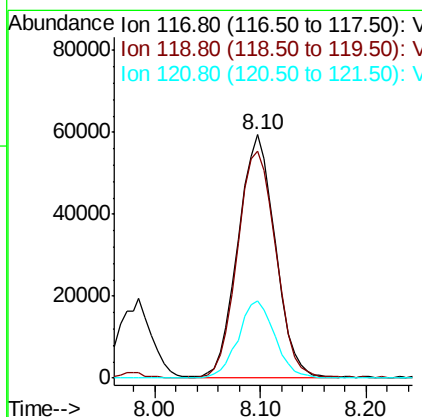
Manual Integrations
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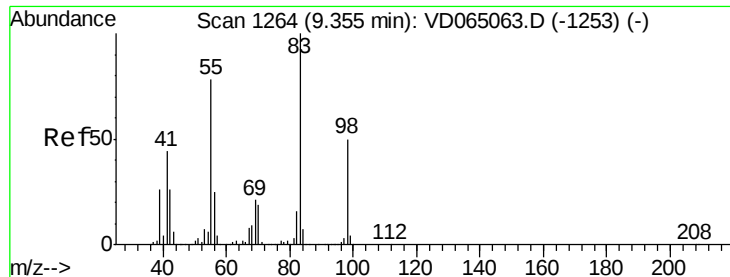
MMDadoda
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#38
Carbon Tetrachloride
Concen: 22.669 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.1	78.5	117.7
121	31.5	23.8	35.6





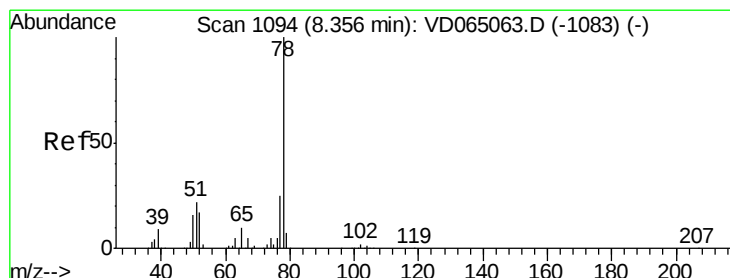
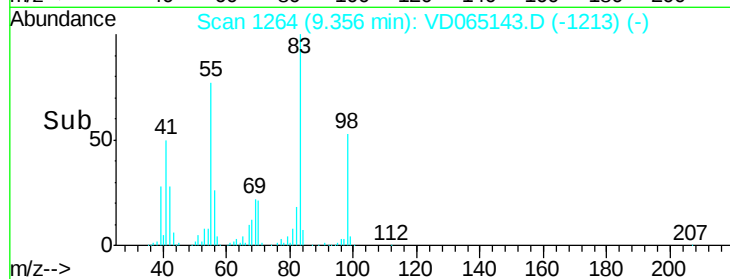
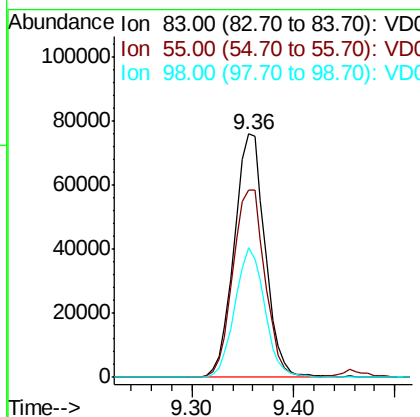
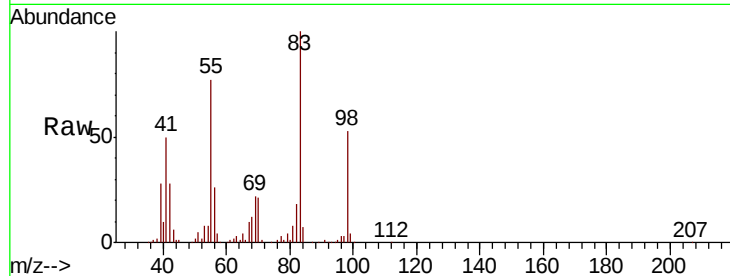
#39
Methvlcvclohexane
Concen: 20.653 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.1	62.0	93.0
98	53.4	39.9	59.9

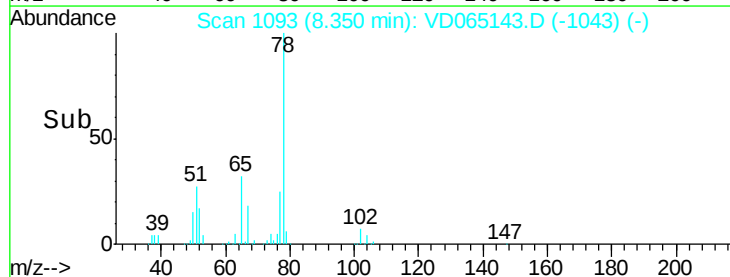
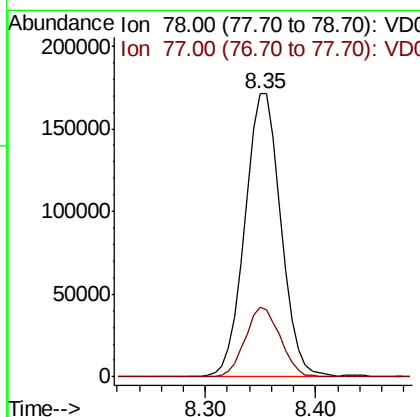
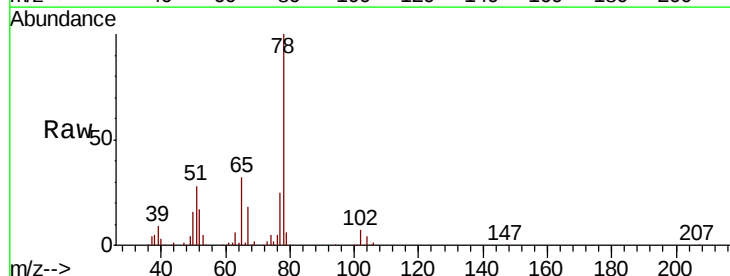
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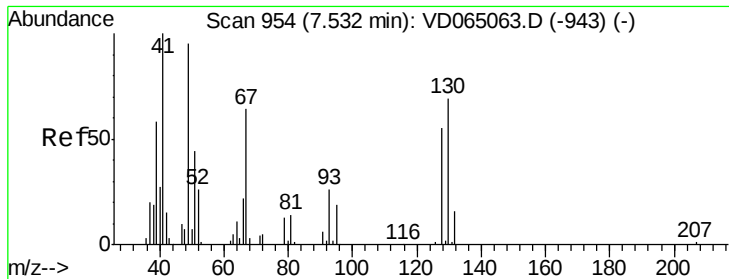
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#40
Benzene
Concen: 22.528 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.6	29.4





#41

Methacrylonitrile

Concen: 26.315 ug/l m

RT: 7.54 min Scan# 956

Delta R.T. 0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 41 Resp: 37427

Ion Ratio Lower Upper

41 100

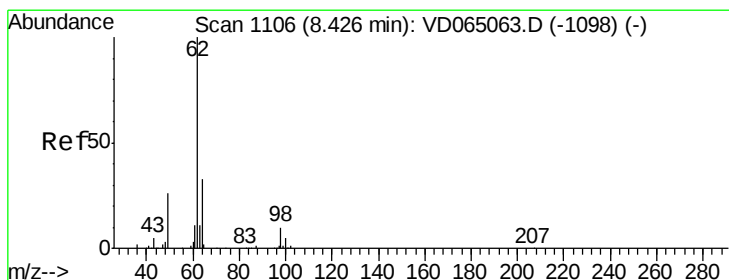
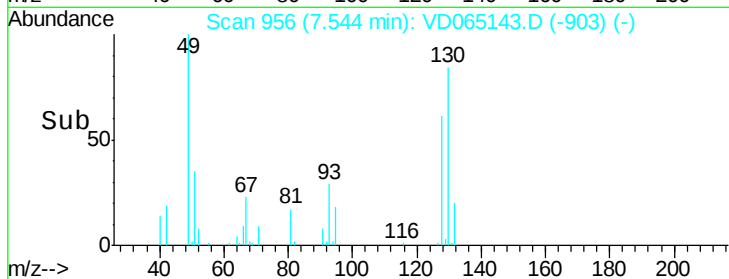
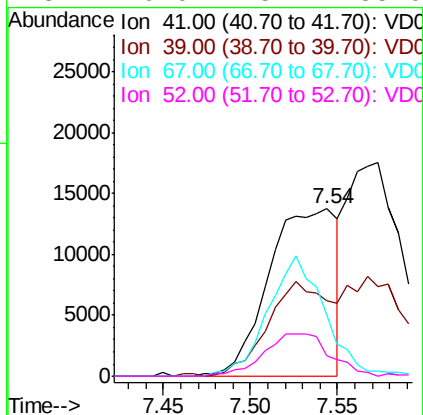
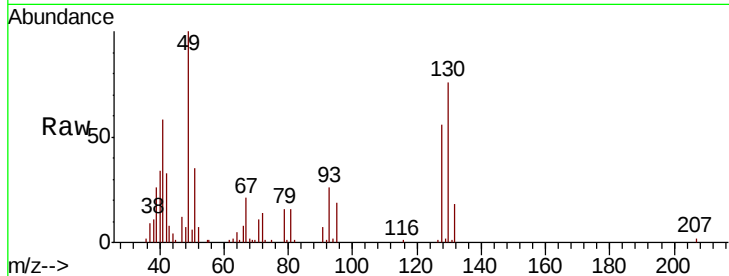
39 53.1 55.4 83.0#

67 0.0 59.0 88.6#

52 0.0 25.4 38.0#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 22.005 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD065143.D

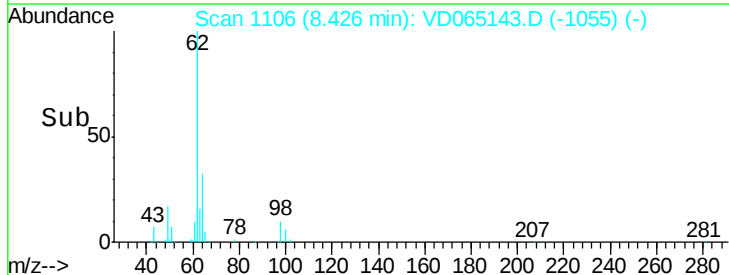
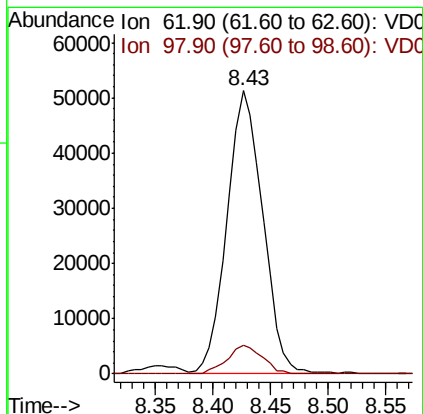
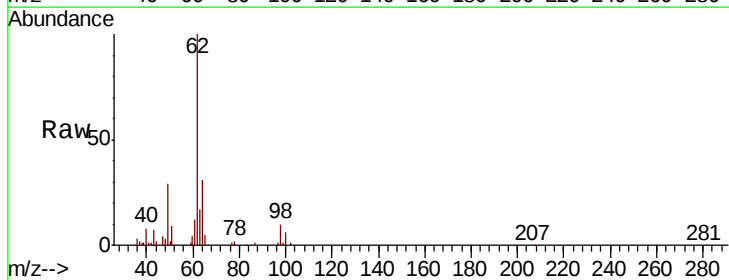
Acq: 11 Feb 2020 11:47

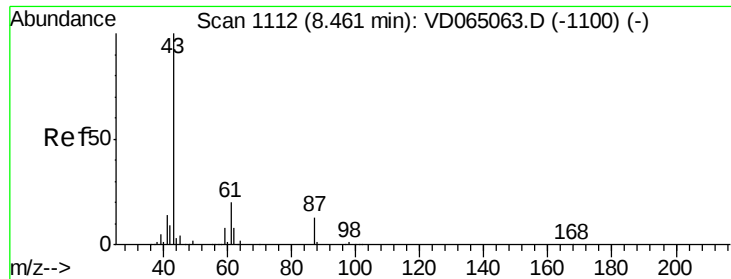
Tgt Ion: 62 Resp: 109414

Ion Ratio Lower Upper

62 100

98 10.1 0.0 18.6





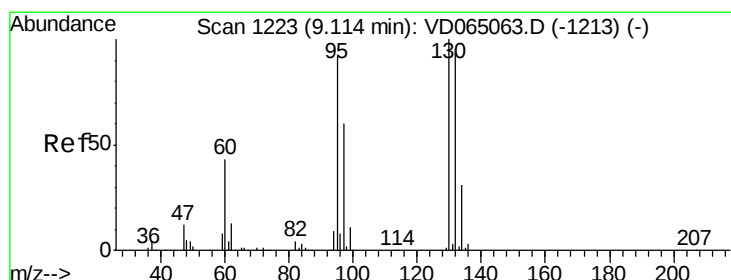
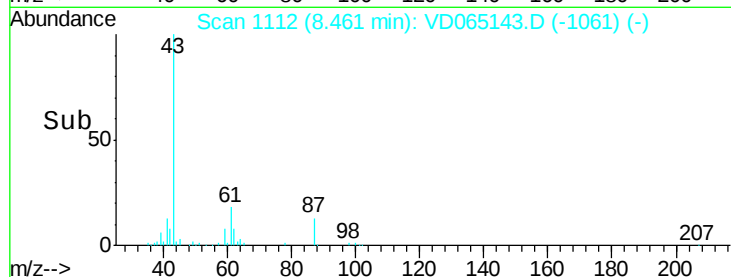
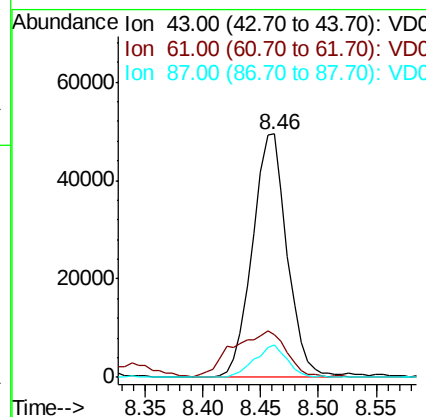
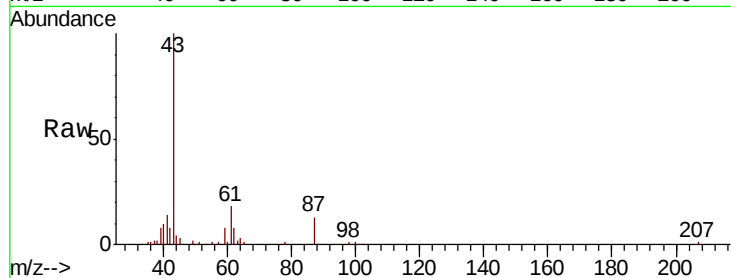
#43
Isopropyl Acetate
Concen: 21.098 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.8	24.0	36.0
87	12.5	10.2	15.4

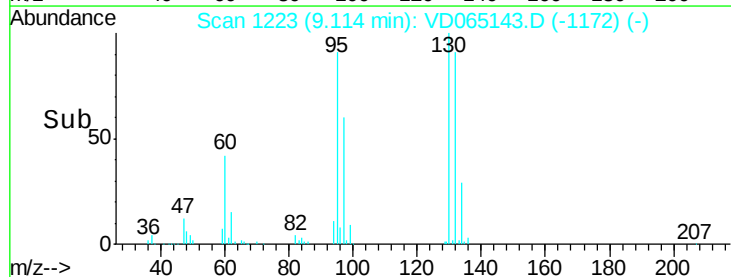
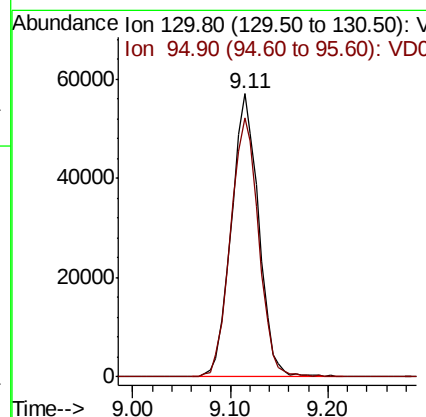
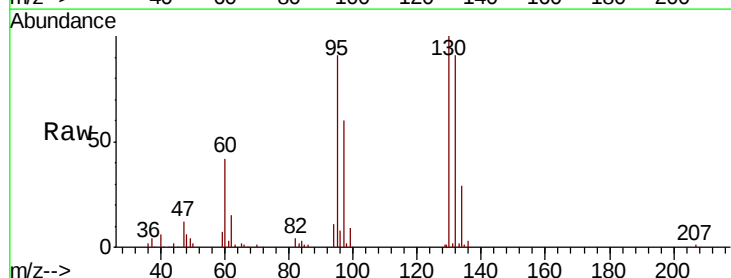
Manual Integrations
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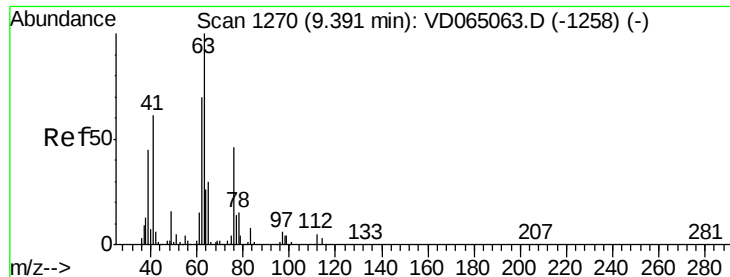
MMDadoda
2/12/2020 3:12:48 PM



#44
Trichloroethene
Concen: 22.141 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.3	0.0	185.0





#45

1,2-Dichloropropane

Concen: 23.501 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 63 Resp: 98326

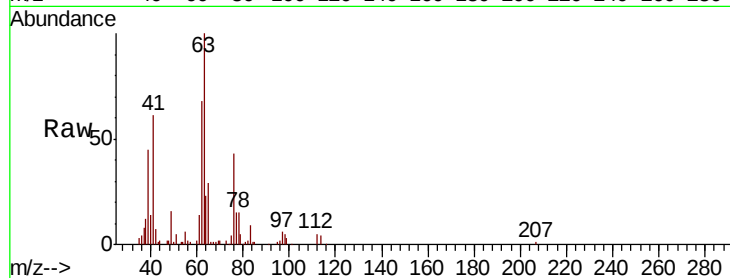
Ion Ratio Lower Upper

63 100

65 28.6 23.9 35.9

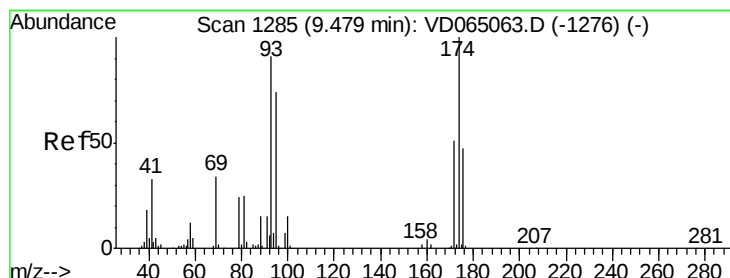
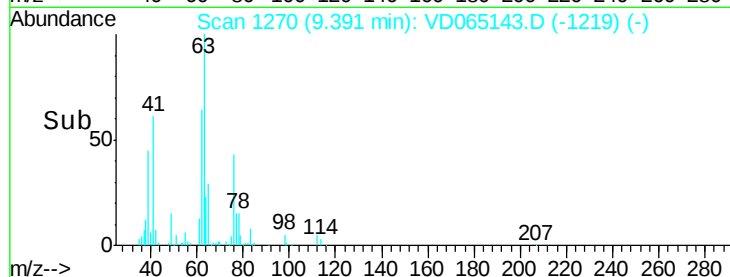
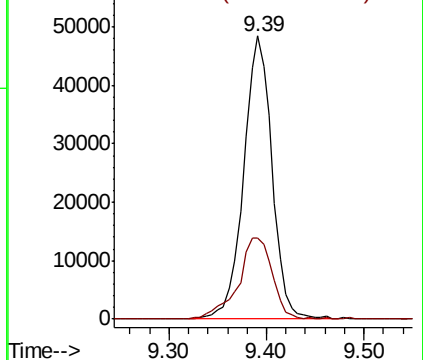
Manual Integrations
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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 23.092 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

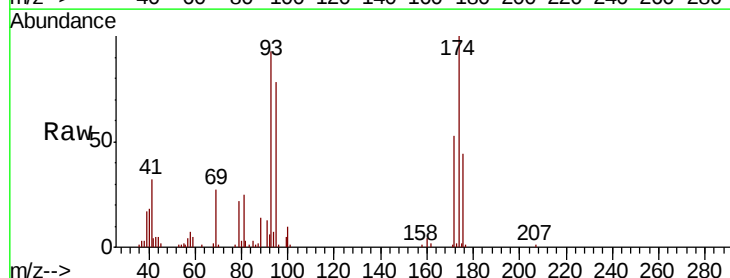
Tgt Ion: 93 Resp: 50768

Ion Ratio Lower Upper

93 100

95 83.1 66.5 99.7

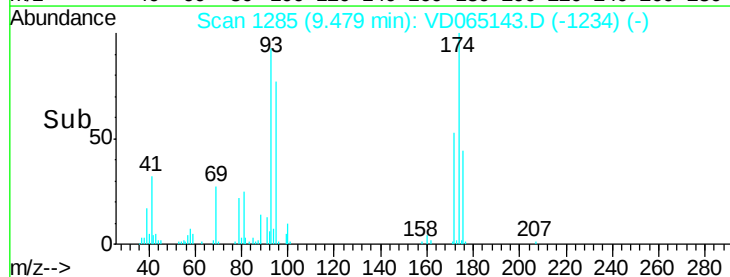
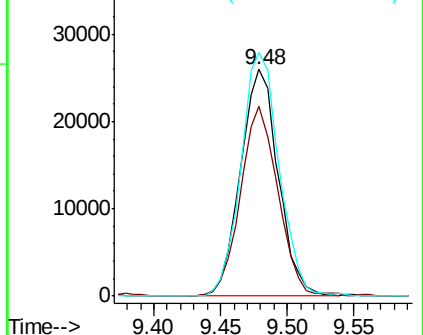
174 108.7 89.8 134.8

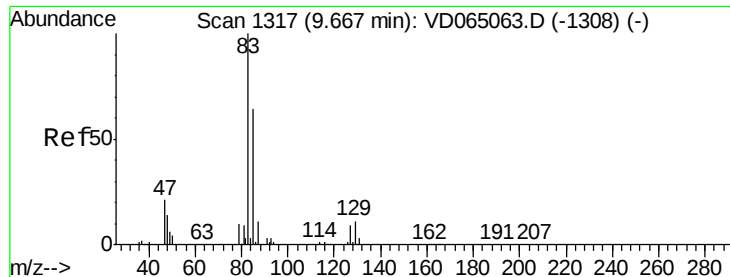


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 23.137 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

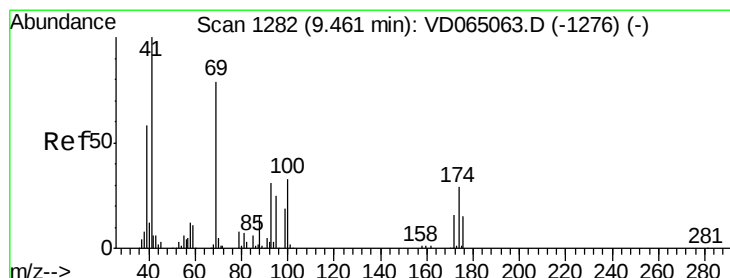
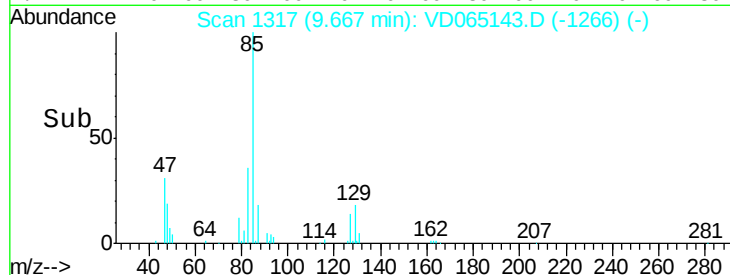
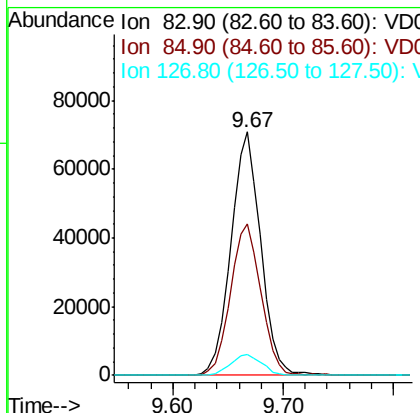
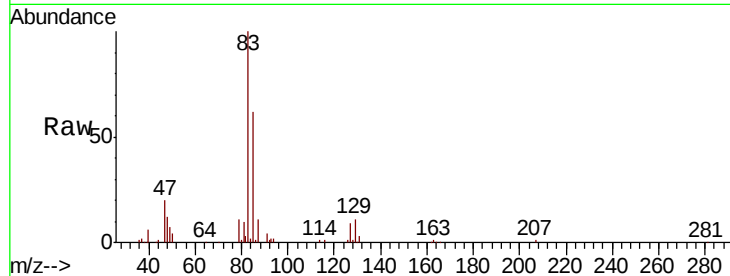
ClientSampleId :

VD0211SBS01

Tot Ion:	83	Resp:	134031
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.0	76.6
127	8.7	7.3	10.9

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#48

Methyl methacrylate

Concen: 19.892 ug/l

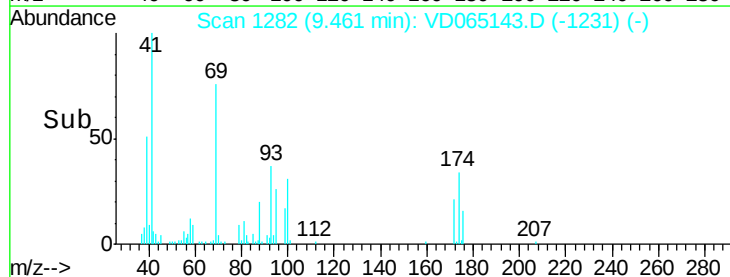
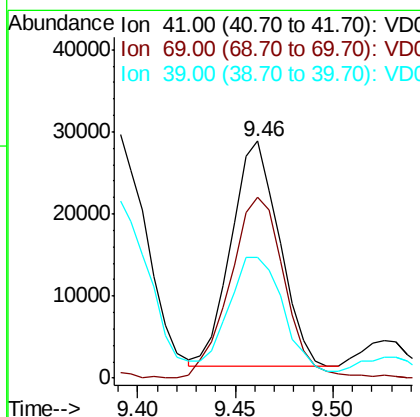
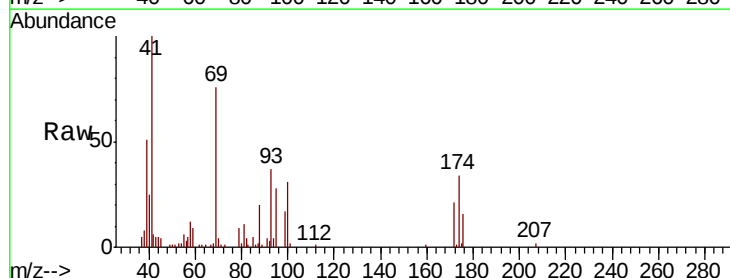
RT: 9.46 min Scan# 1282

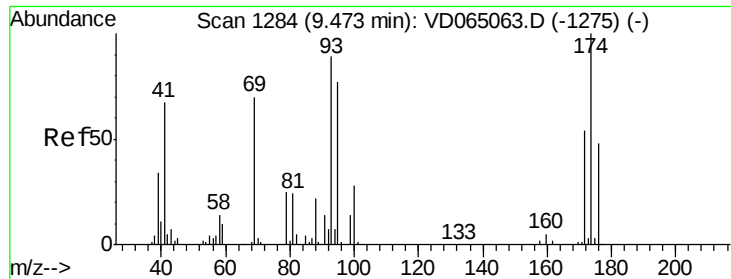
Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	41	Resp:	47271
Ion	Ratio	Lower	Upper
41	100		
69	91.0	67.5	101.3
39	56.6	47.0	70.4





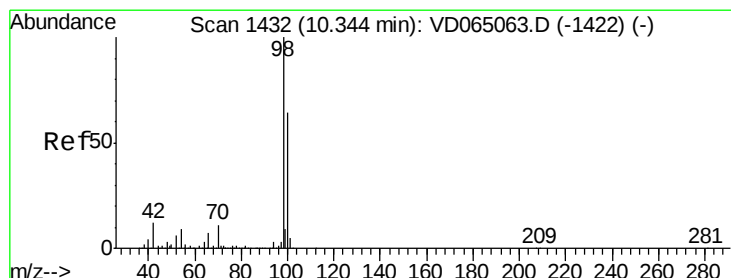
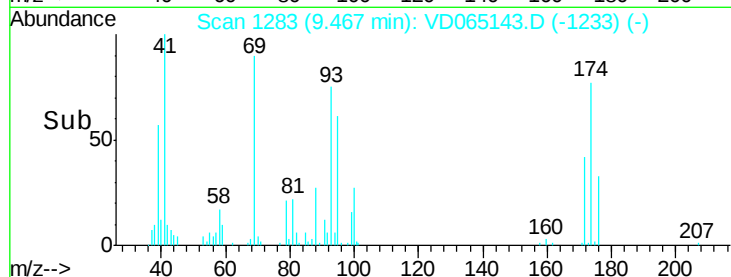
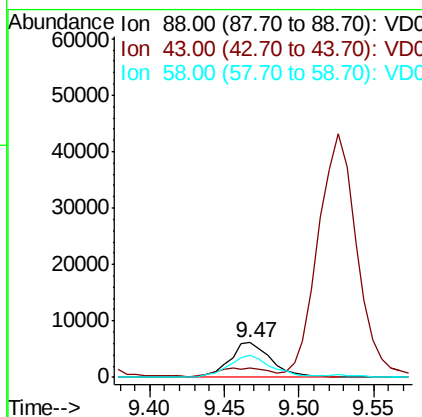
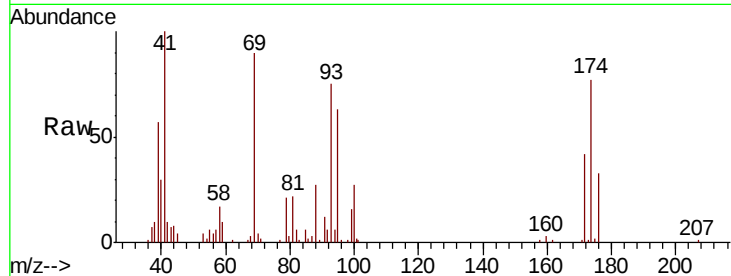
#49
1,4-Dioxane
Concen: 454.573 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	88	Resp	11837
Ion Ratio	100	Lower	Upper
88	100		
43	29.0	27.7	41.5
58	65.5	55.5	83.3

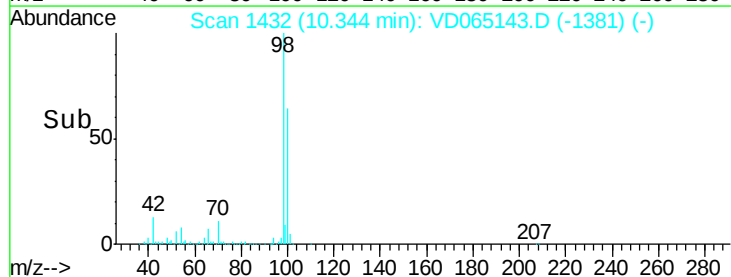
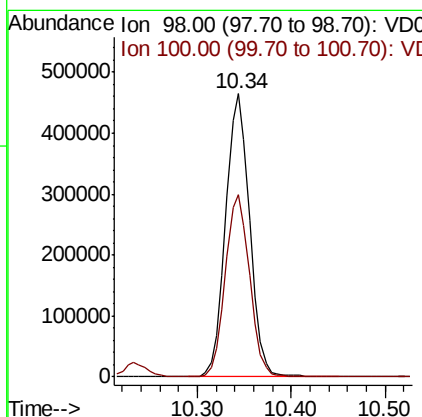
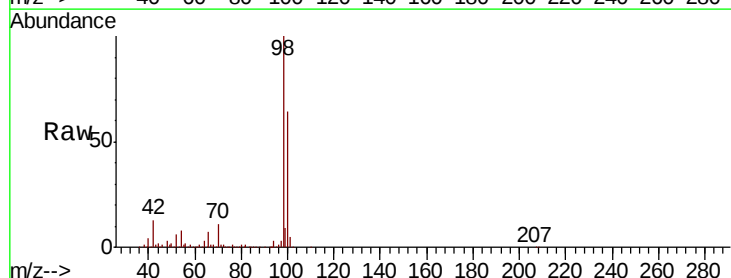
Manual Integrations
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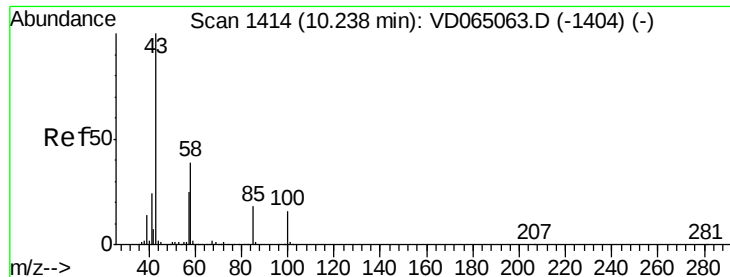
MMDadoda
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#50
Toluene-d8
Concen: 54.646 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	98	Resp	824713
Ion Ratio	100	Lower	Upper
98	100		
100	65.2	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 105.789 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 43 Resp: 257148

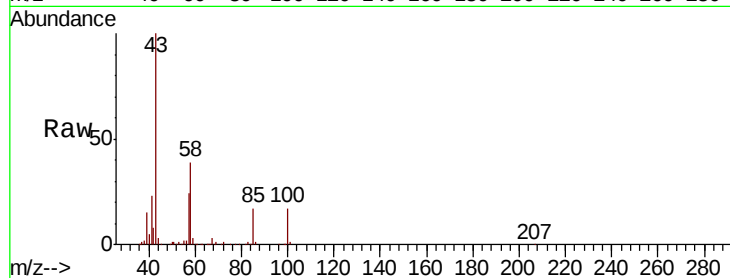
Ion Ratio Lower Upper

43 100

58 38.5 30.2 45.2

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

150000

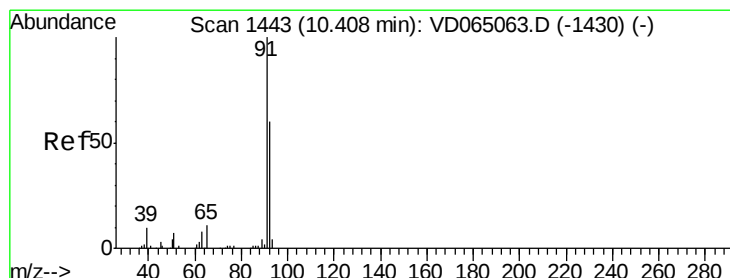
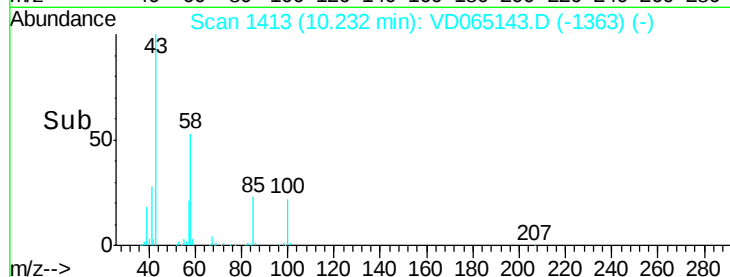
100000

50000

0

10.20 10.30

Time-->



#52

Toluene

Concen: 22.538 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065143.D

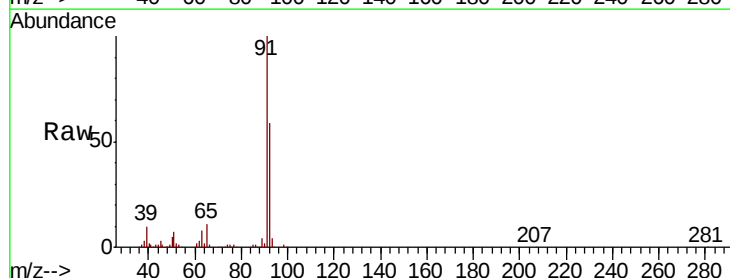
Acq: 11 Feb 2020 11:47

Tgt Ion: 92 Resp: 251013

Ion Ratio Lower Upper

92 100

91 173.5 135.3 202.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

250000

200000

150000

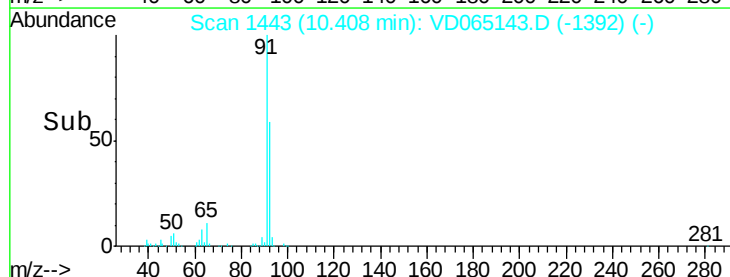
100000

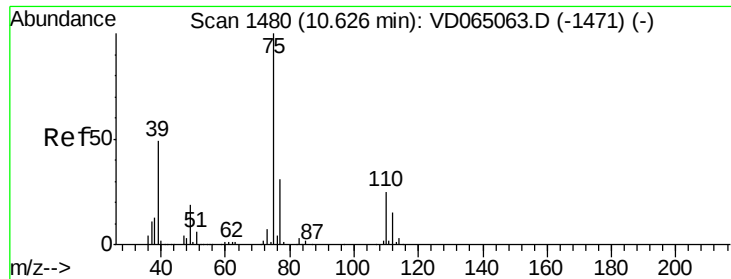
50000

0

10.30 10.40 10.50

Time-->





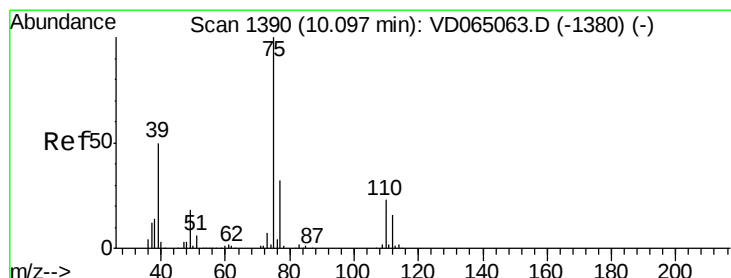
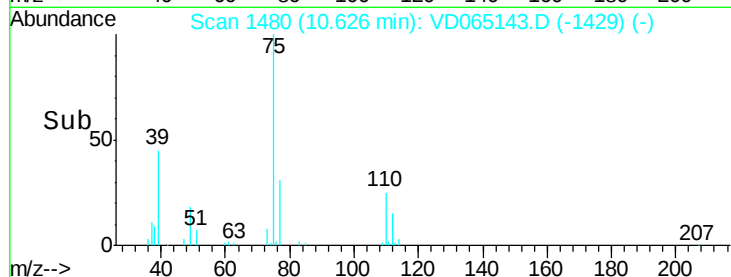
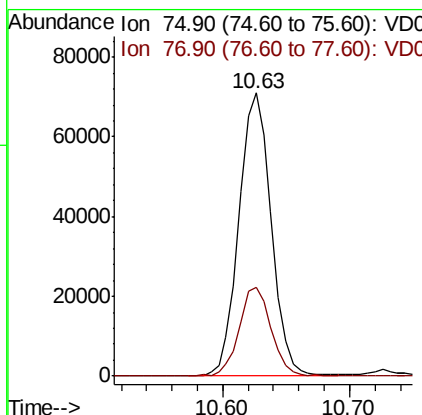
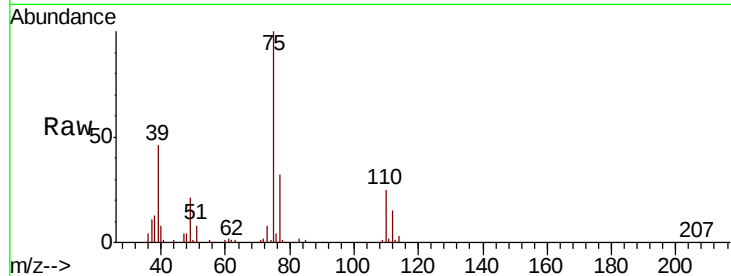
#53
t-1,3-Dichloropropene
Concen: 22.312 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.9	37.3

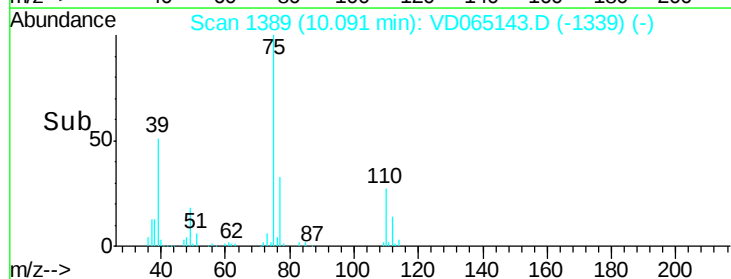
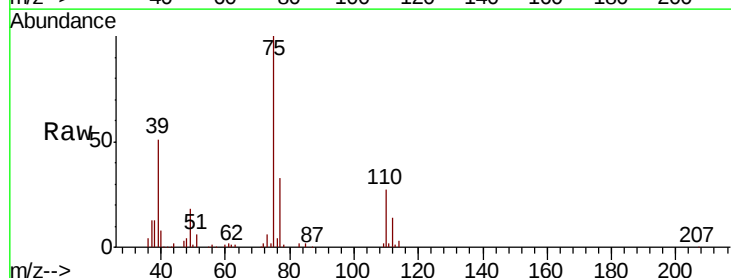
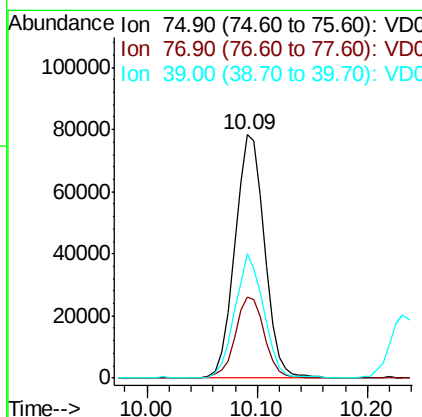
Manual Integrations
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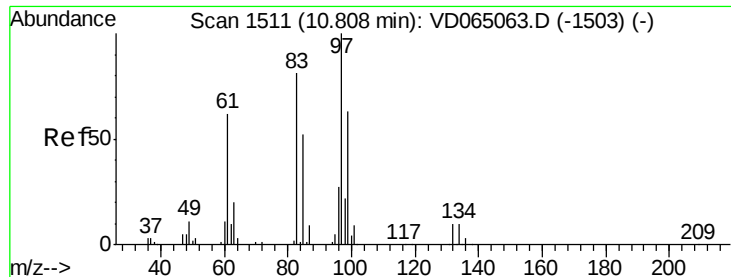
MMDadoda
2/12/2020 3:12:48 PM



#54
cis-1,3-Dichloropropene
Concen: 21.940 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.3	37.9
39	51.1	40.3	60.5





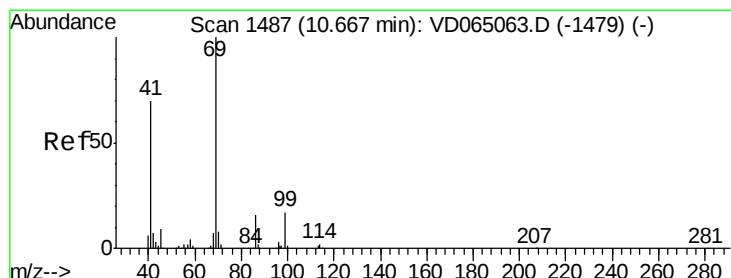
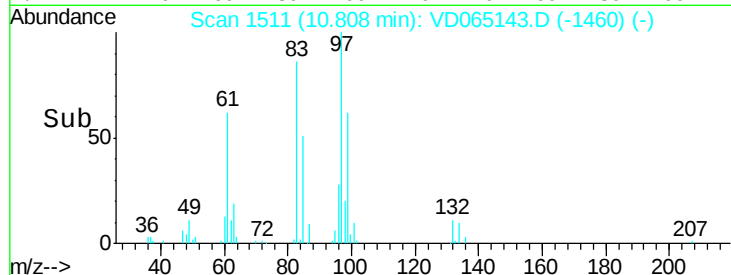
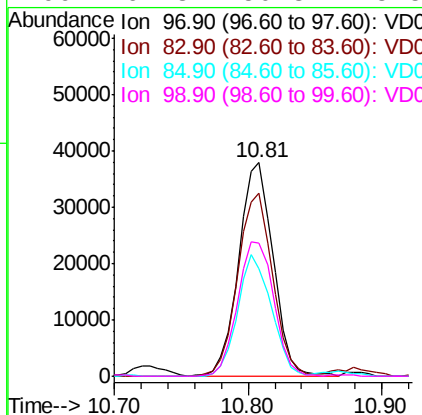
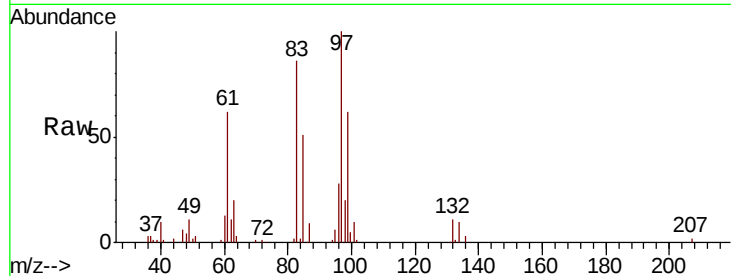
#55
 1,1,2-Trichloroethane
 Concen: 22.524 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion:	97	Resp:	67922
Ion	Ratio	Lower	Upper
97	100		
83	85.6	64.8	97.2
85	50.5	41.2	61.8
99	62.3	50.3	75.5

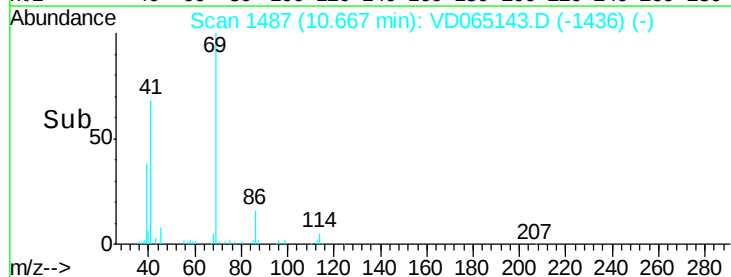
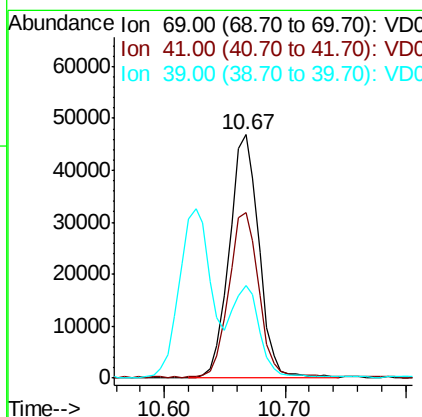
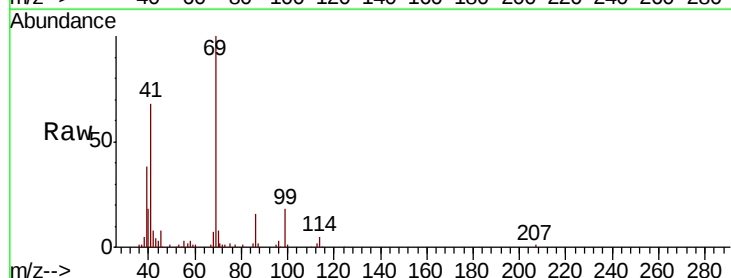
Manual Integrations
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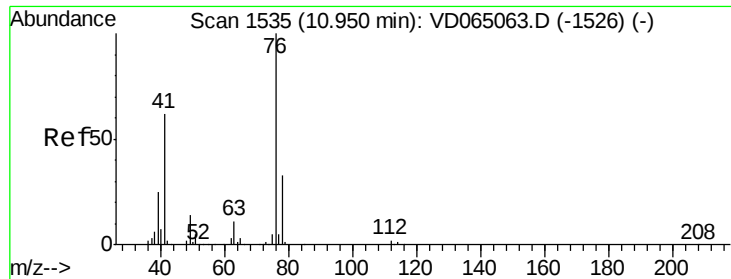
MMDadoda
 2/12/2020 3:12:48 PM



#56
 Ethyl methacrylate
 Concen: 21.010 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion:	69	Resp:	80165
Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.9	83.9
39	34.4	29.4	44.0





#57

1,3-Dichloropropane

Concen: 22.463 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 76 Resp: 119115

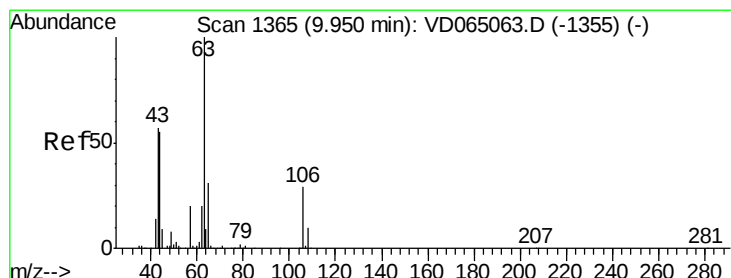
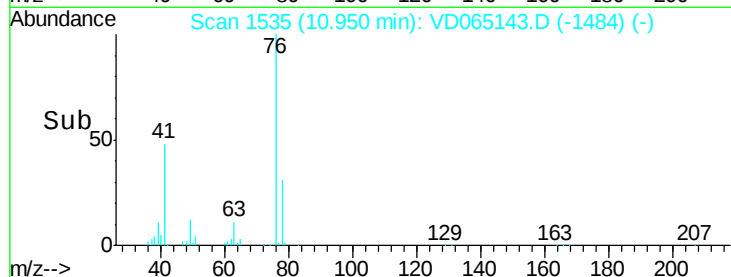
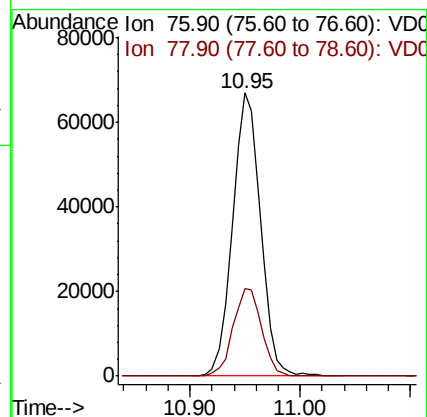
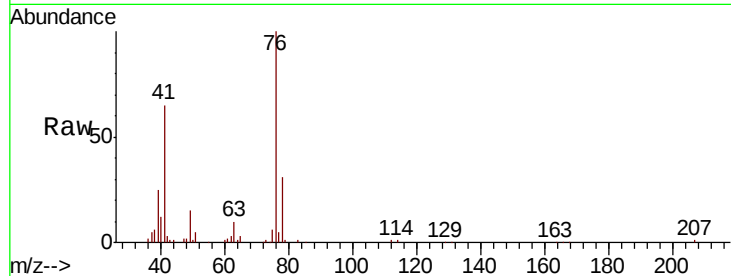
Ion Ratio Lower Upper

76 100

78 31.6 25.8 38.6

Manual Integrations
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2/12/2020 3:12:48 PM



#58

2-Chloroethyl Vinyl ether

Concen: 88.720 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VD065143.D

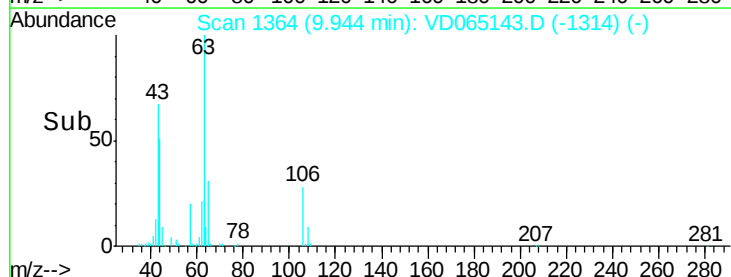
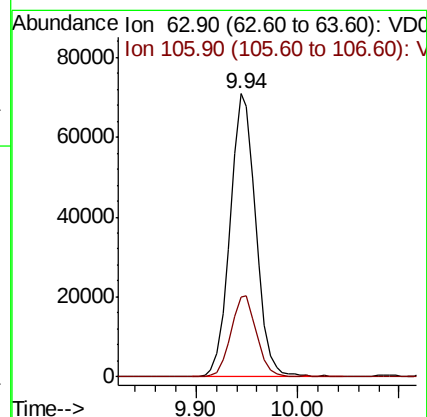
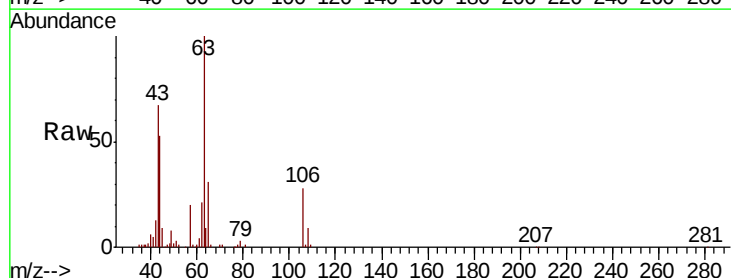
Acq: 11 Feb 2020 11:47

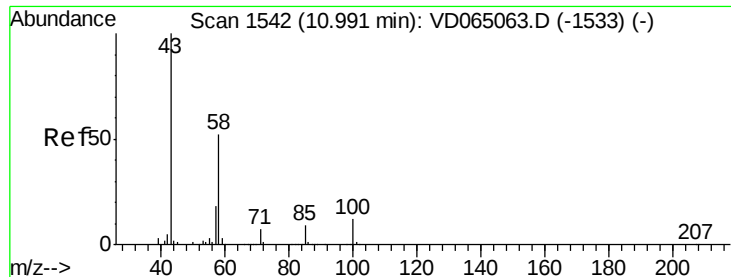
Tgt Ion: 63 Resp: 124490

Ion Ratio Lower Upper

63 100

106 28.6 23.3 34.9





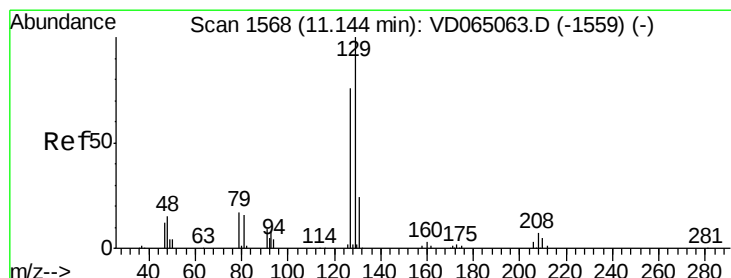
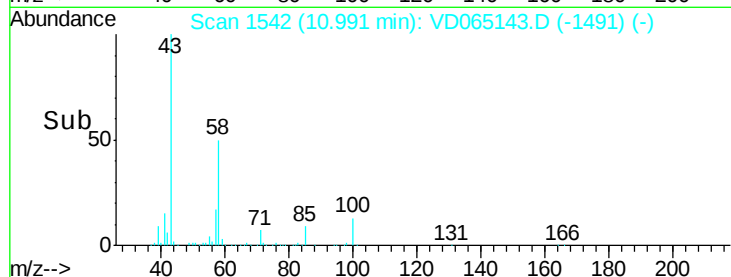
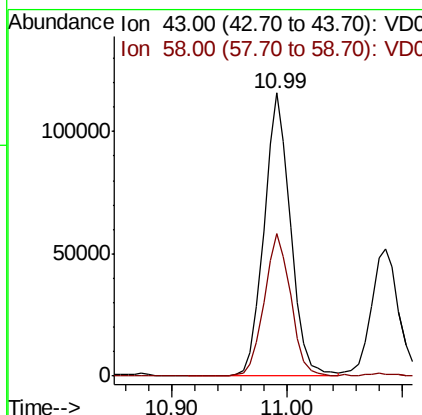
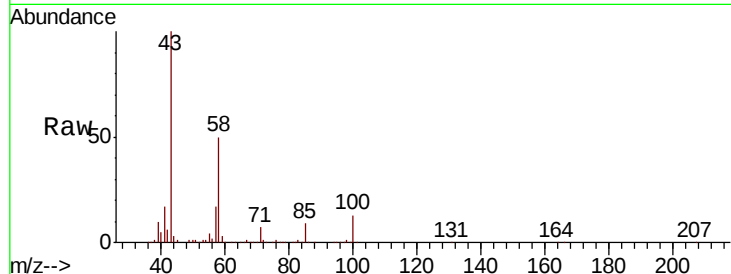
#59
2-Hexanone
Concen: 107.619 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	43	Resp	185294
Ion Ratio	43	100	
Lower	58	50.3	26.2
Upper			78.6

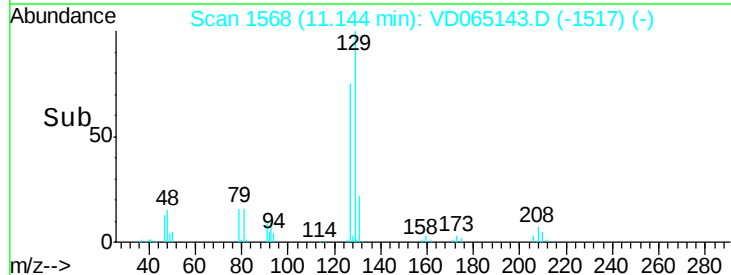
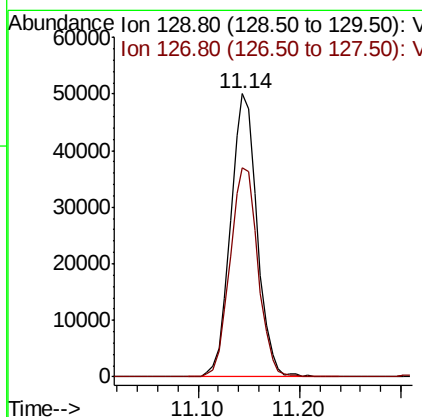
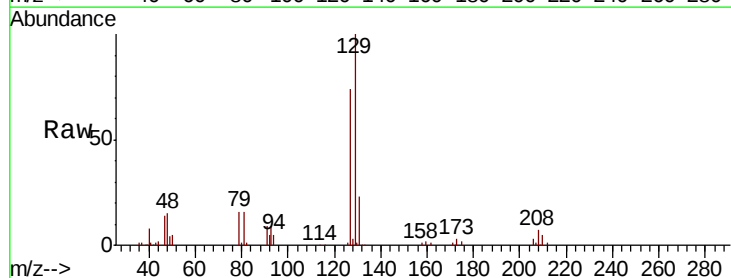
Manual Integrations
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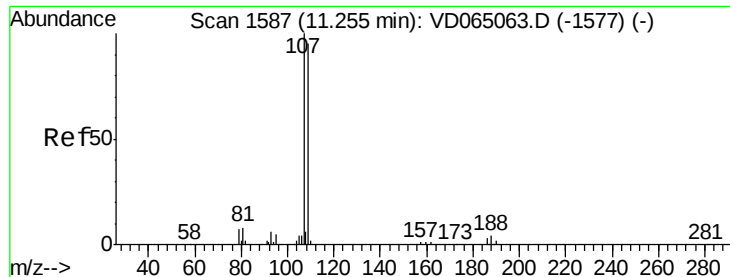
MMDadoda
2/12/2020 3:12:48 PM



#60
Dibromochloromethane
Concen: 23.175 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	129	Resp	90520
Ion Ratio	129	100	
Lower	127	77.8	38.3
Upper			114.9





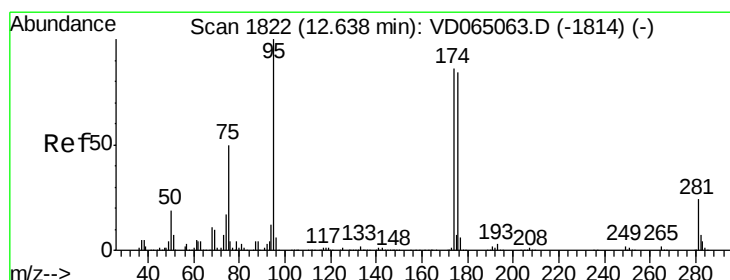
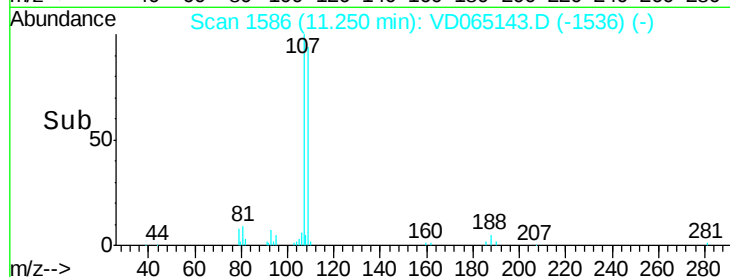
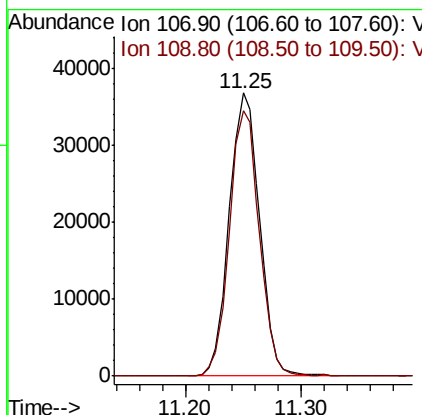
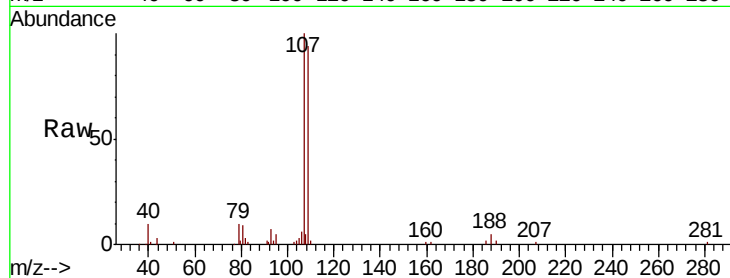
#61
 1,2-Dibromoethane
 Concen: 22.775 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	75.5	113.3

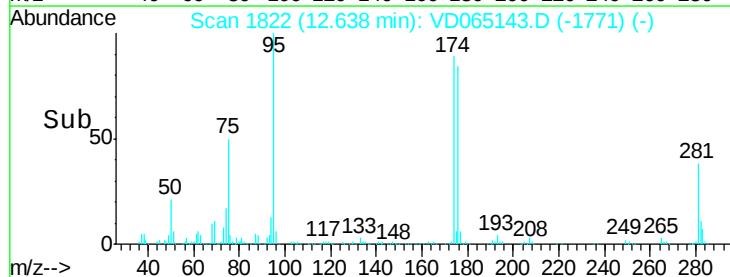
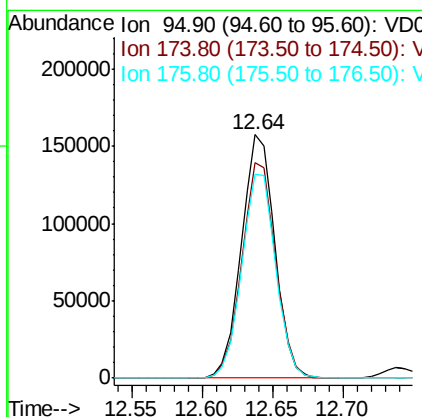
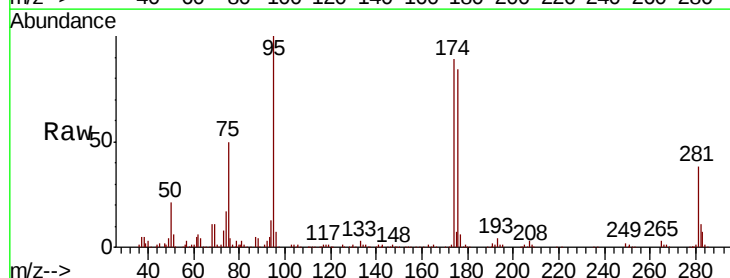
Manual Integrations
 APPROVED

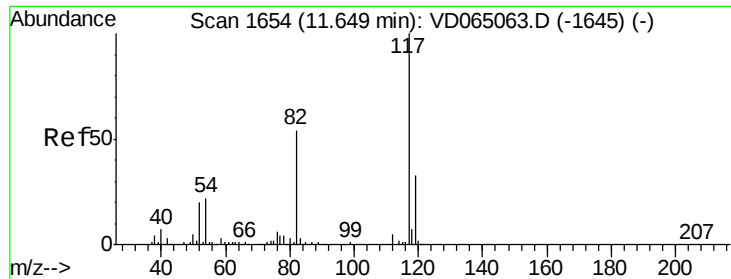
MMDadoda
 2/12/2020 3:12:48 PM



#62
 4-Bromofluorobenzene
 Concen: 54.435 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	180.0
176	85.5	0.0	173.2





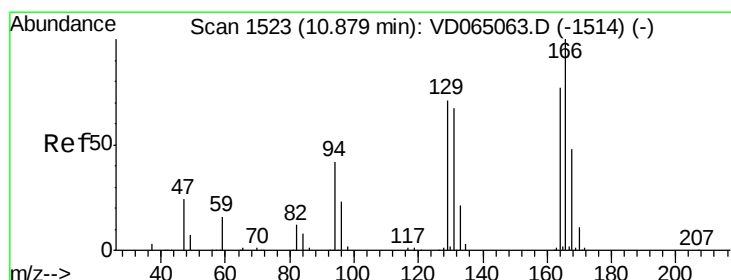
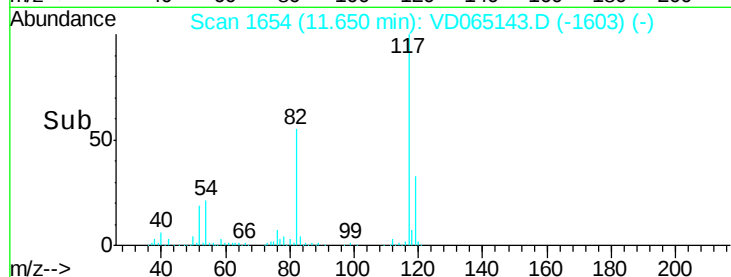
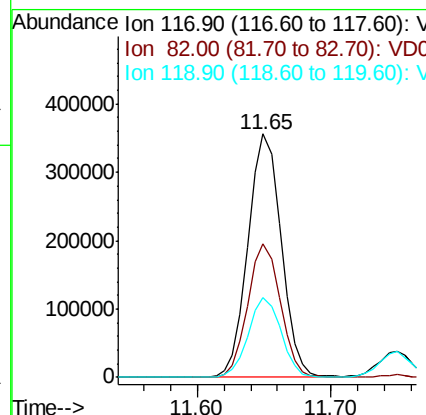
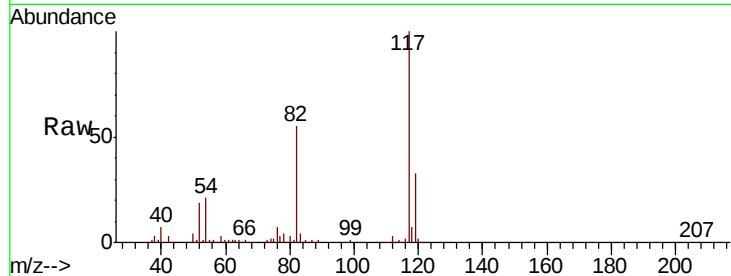
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	613466		
82	54.7		43.1	64.7
119	32.7		26.0	39.0

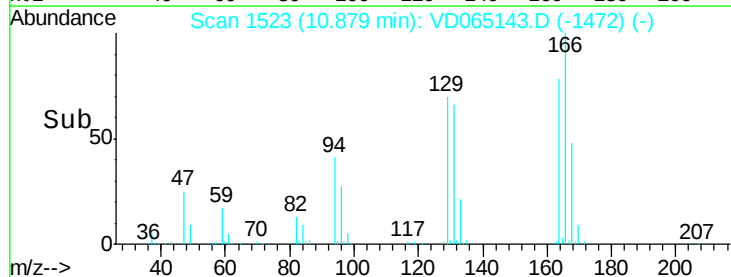
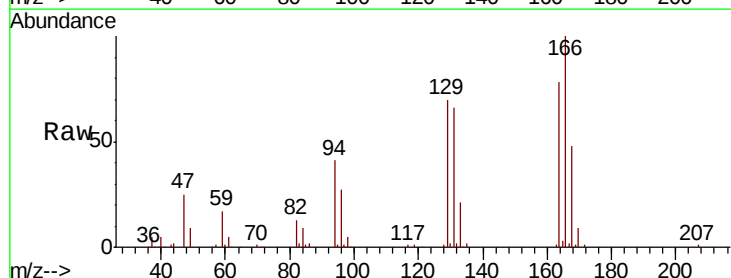
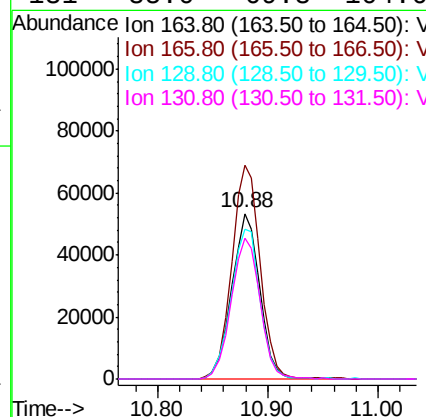
Manual Integrations
APPROVED

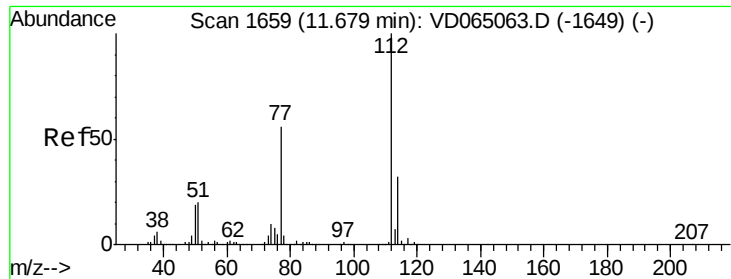
MMDadoda
2/12/2020 3:12:48 PM



#64
Tetrachloroethene
Concen: 21.484 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	94705		
166	128.9		103.5	155.3
129	90.6		73.3	109.9
131	85.0		69.8	104.6





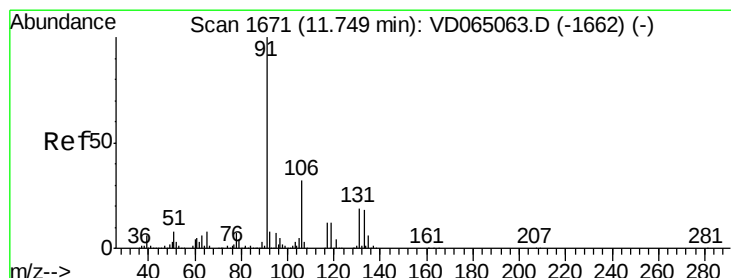
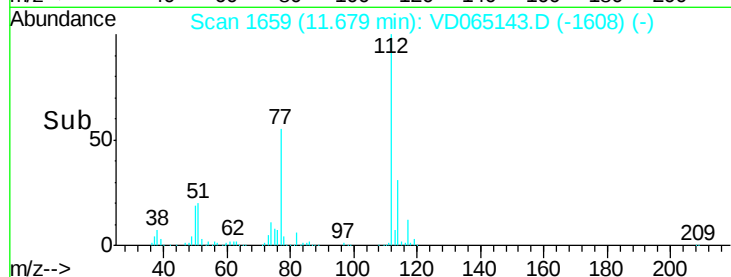
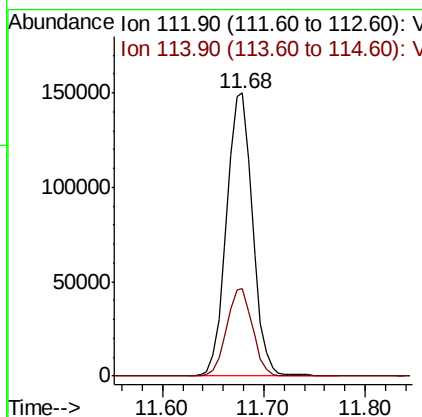
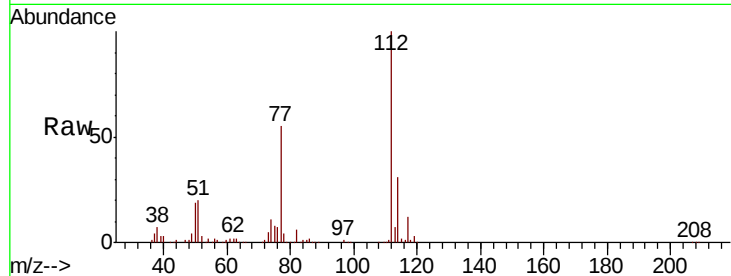
#65
Chlorobenzene
Concen: 22.491 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion:112 Resp: 266862
Ion Ratio Lower Upper
112 100
114 30.8 25.4 38.0

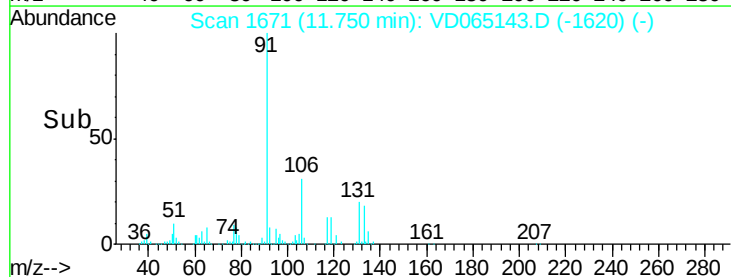
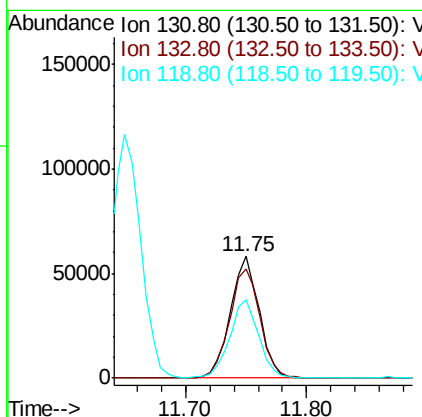
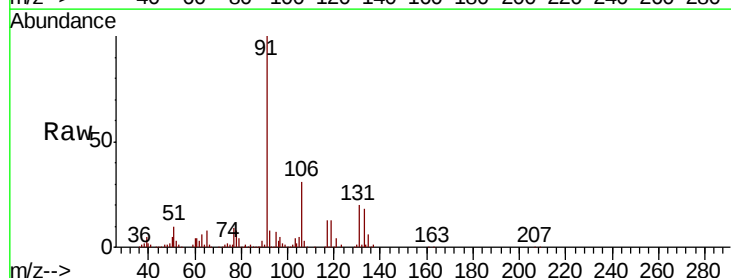
Manual Integrations
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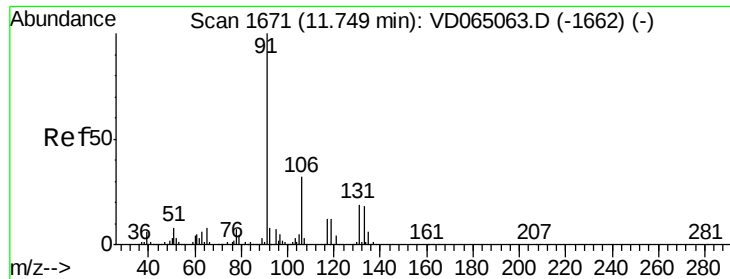
MMDadoda
2/12/2020 3:12:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.100 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion:131 Resp: 96783
Ion Ratio Lower Upper
131 100
133 95.5 47.7 143.1
119 65.3 31.3 93.8





#67

Ethyl Benzene

Concen: 21.452 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

ClientSampleId :

VD0211SBS01

Tot Ion: 91 Resp: 462446

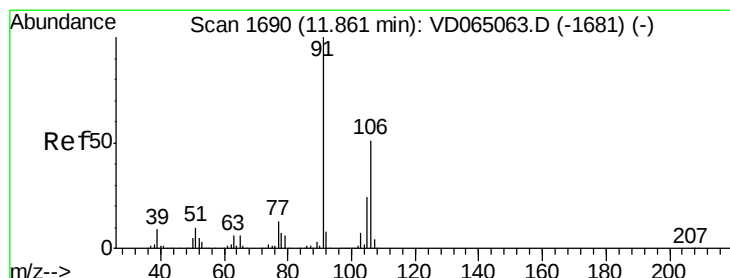
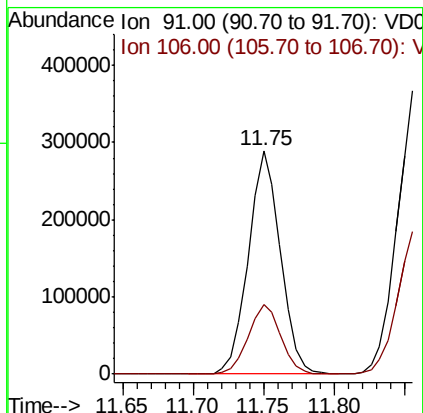
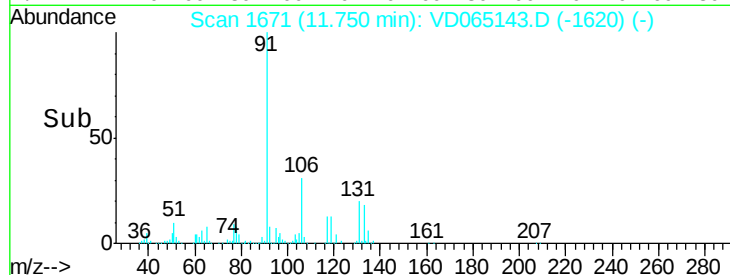
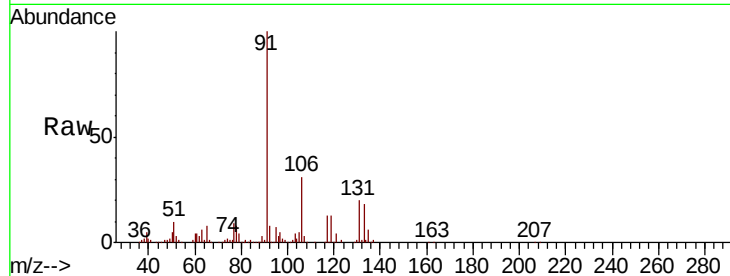
Ion Ratio Lower Upper

91 100

106 30.9 25.4 38.2

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:12:48 PM



#68

m/p-Xylenes

Concen: 44.559 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VD065143.D

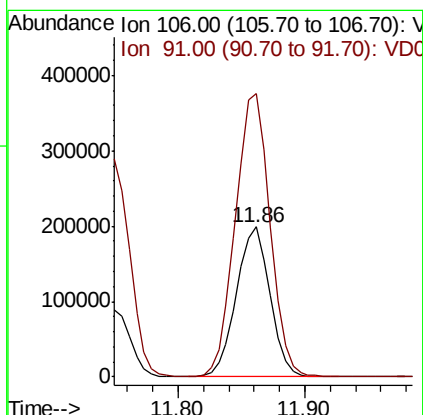
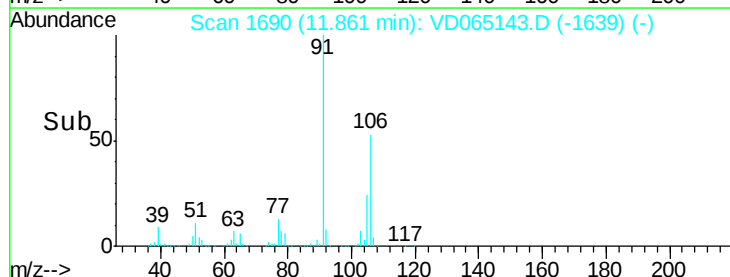
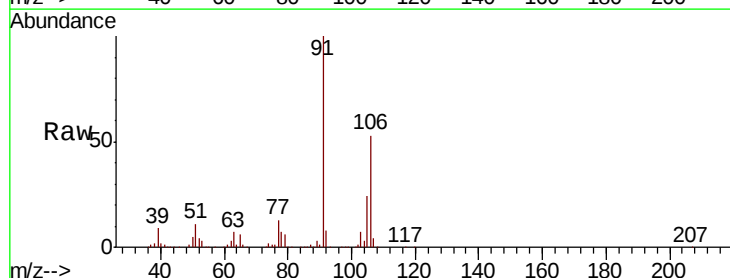
Acq: 11 Feb 2020 11:47

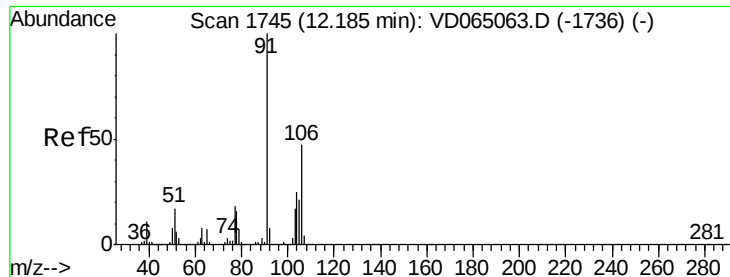
Tgt Ion: 106 Resp: 366622

Ion Ratio Lower Upper

106 100

91 194.9 158.9 238.3





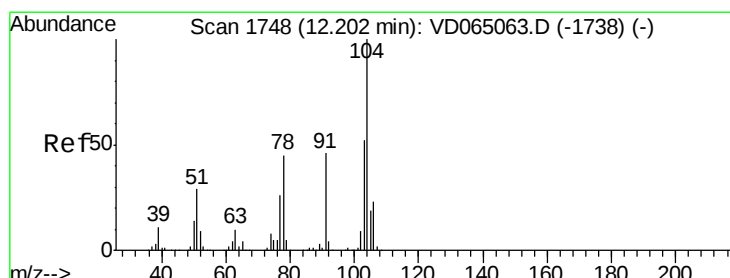
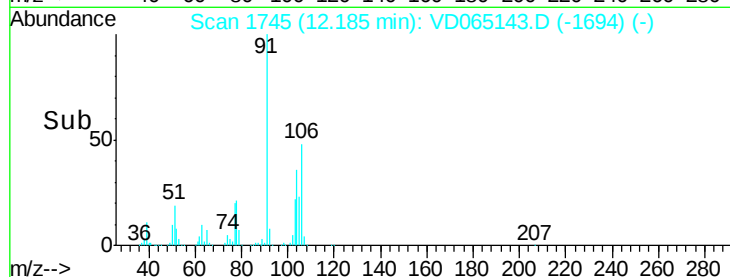
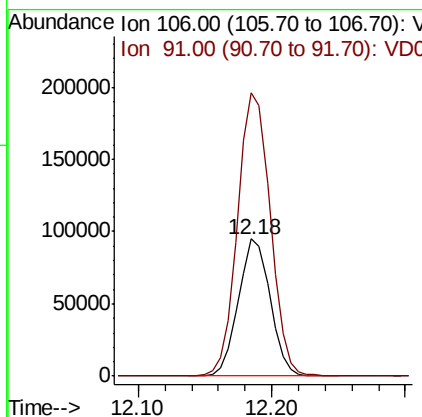
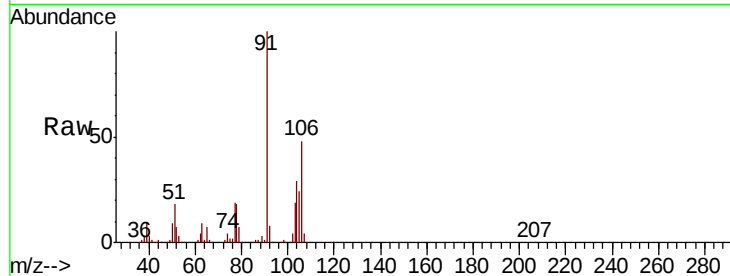
#69
o-Xylene
Concen: 21.168 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	212.4	104.7	313.9

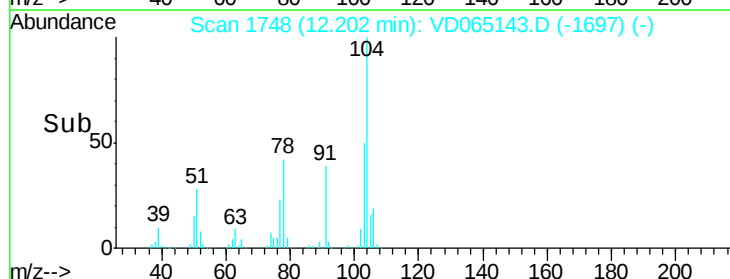
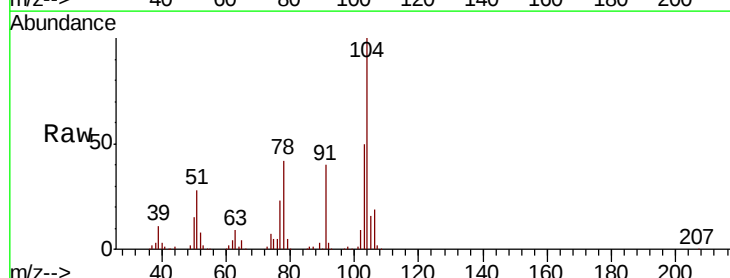
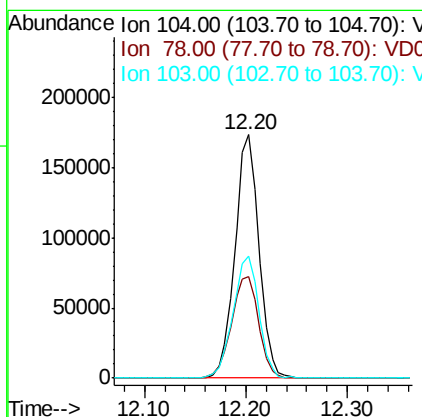
Manual Integrations
APPROVED

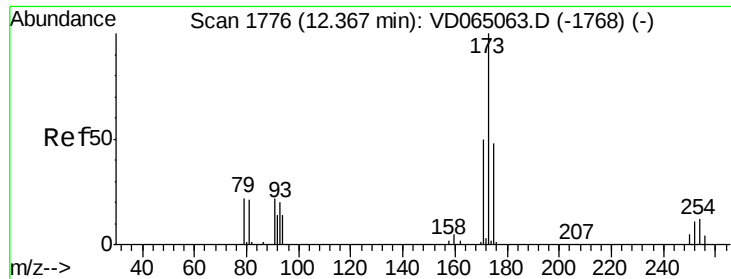
MMDadoda
2/12/2020 3:12:48 PM



#70
Styrene
Concen: 22.118 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	47.2	38.5	57.7
103	103	54.1	43.8	65.8





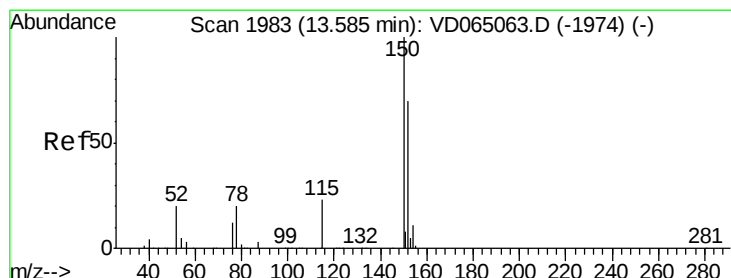
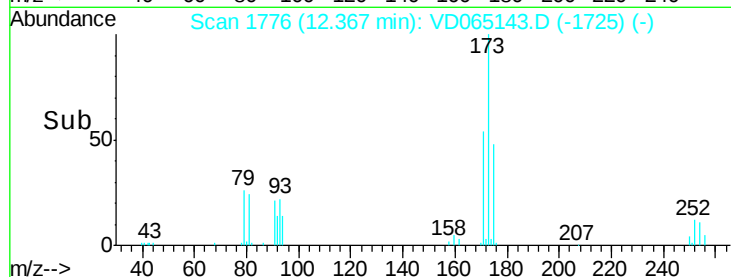
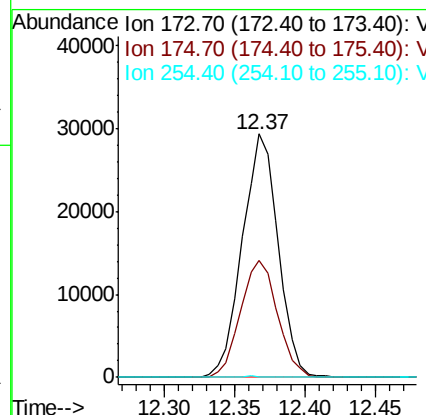
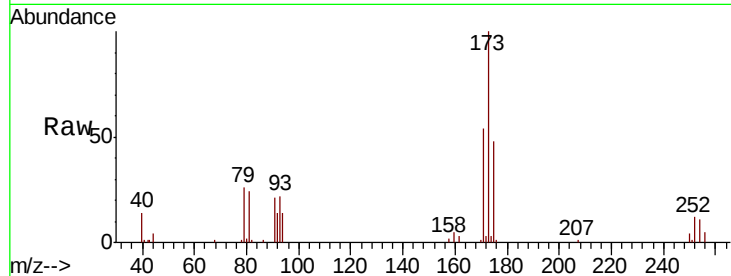
#71
Bromoform
Concen: 22.099 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.3	72.8
254	0.1	0.1	0.1#

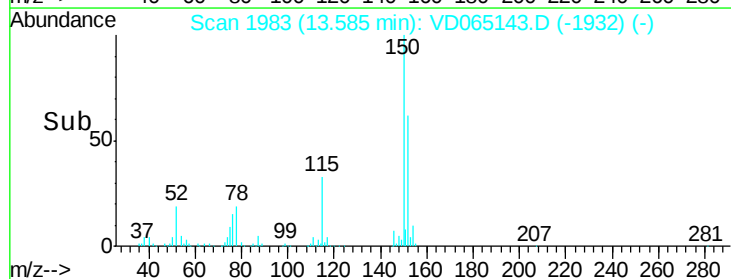
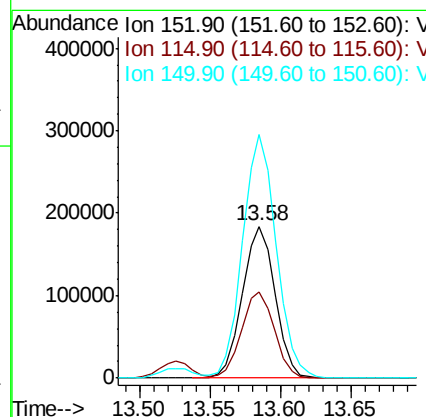
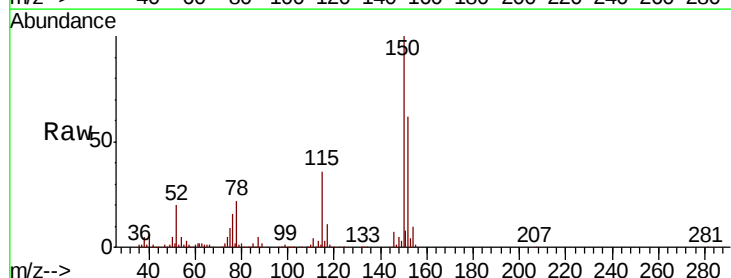
Manual Integrations
APPROVED

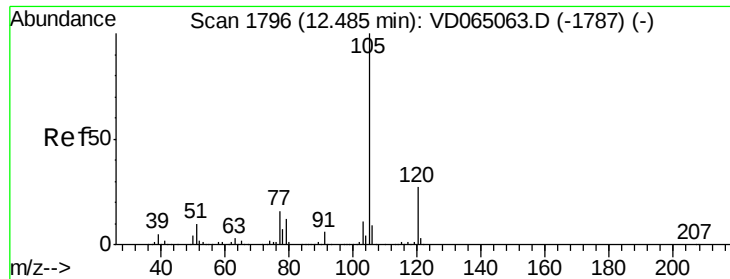
MMDadoda
2/12/2020 3:12:48 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	27.5	82.4
150	165.0	0.0	343.2





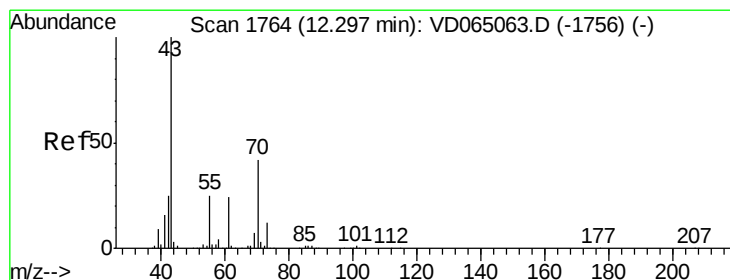
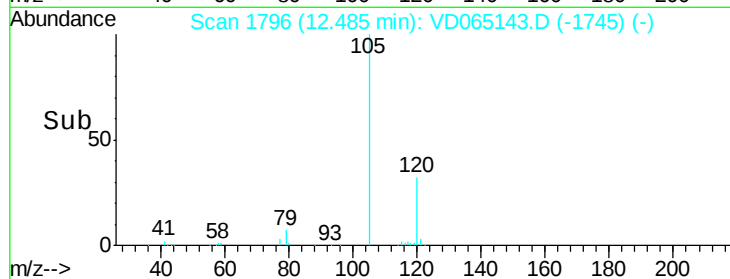
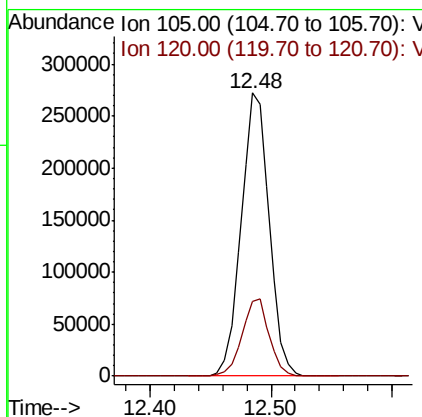
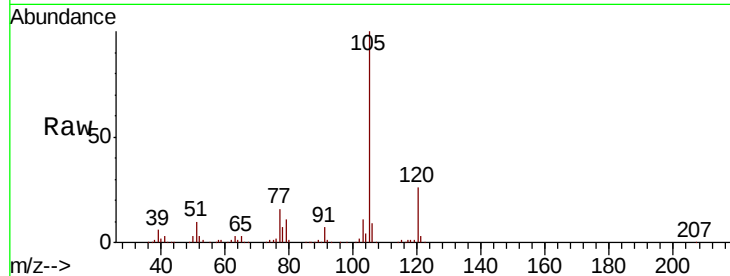
#73
Isopropylbenzene
Concen: 21.454 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.3	39.9

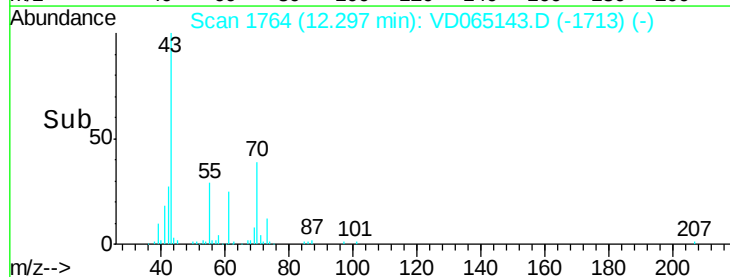
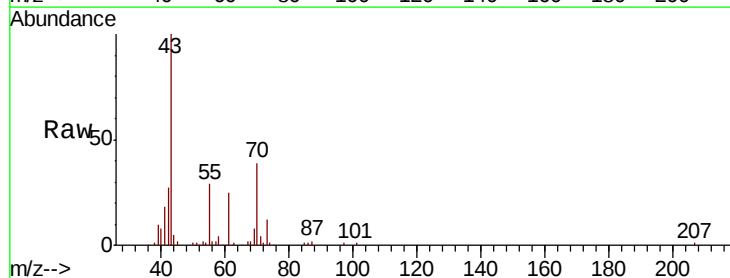
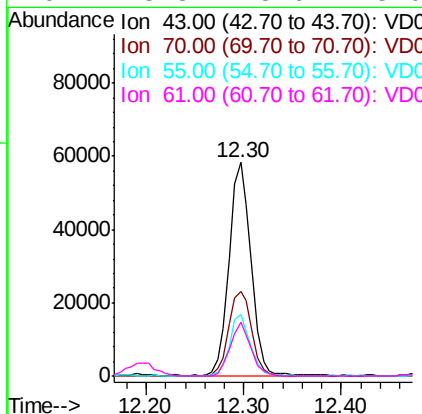
Manual Integrations
APPROVED

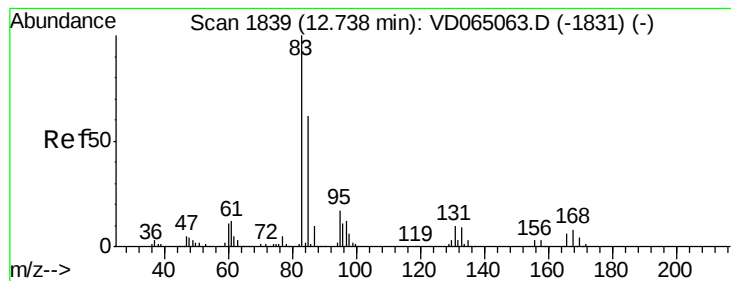
MMDadoda
2/12/2020 3:12:48 PM



#74
N-ethyl acetate
Concen: 20.442 ug/l
RT: 12.30 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.1	33.5	50.3
55	27.4	19.4	29.2
61	23.3	18.6	28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.656 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

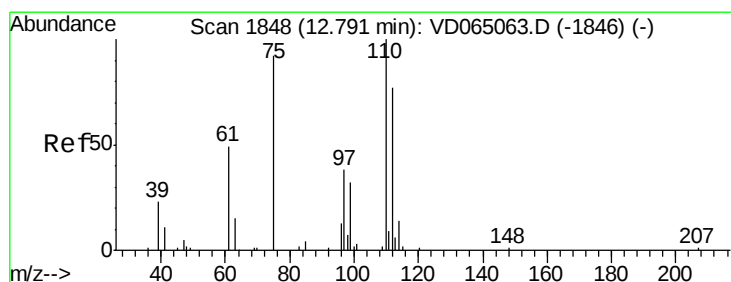
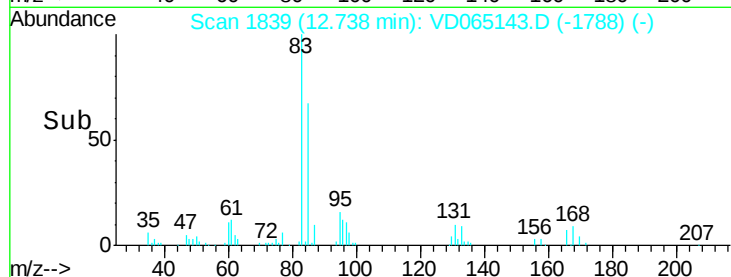
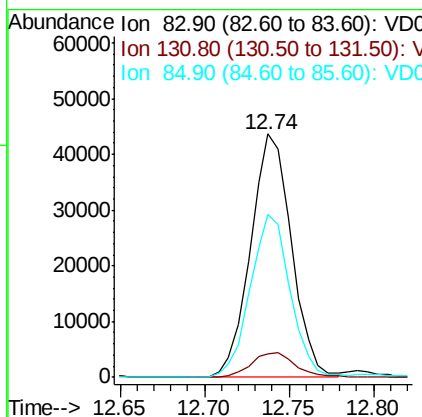
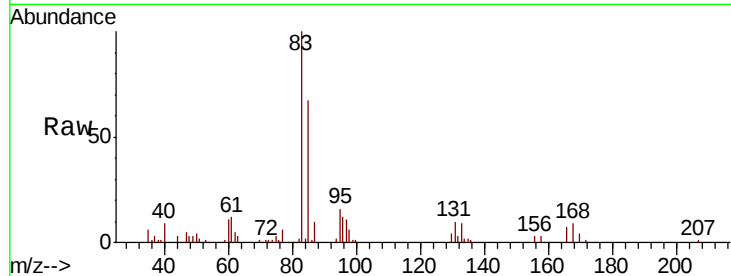
ClientSampleId :

VD0211SBS01

Tot Ion:	83	Resp:	73144
Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.5	16.4
85	65.5	31.8	95.4

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#76

1,2,3-Trichloropropane

Concen: 21.754 ug/l m

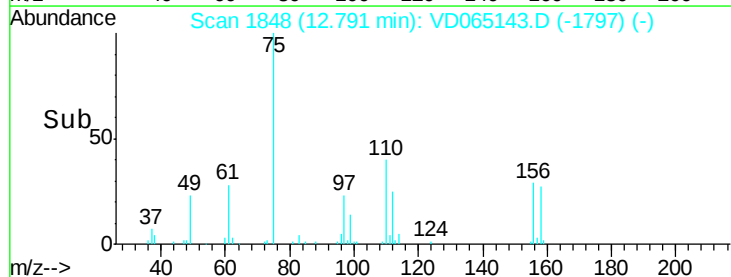
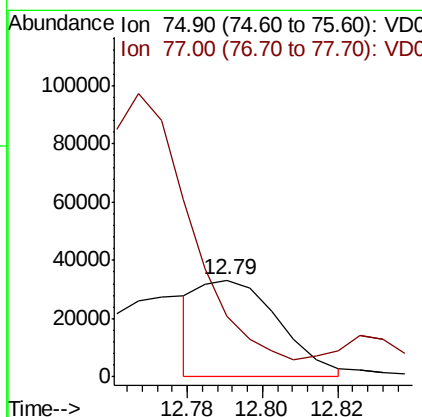
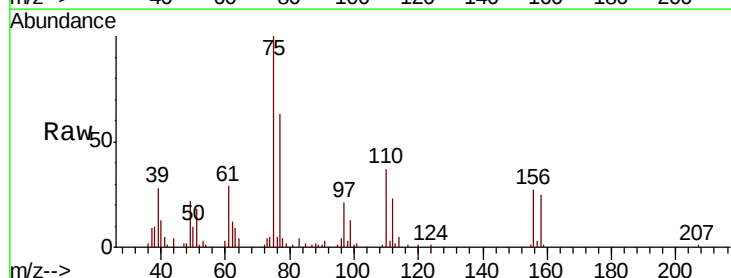
RT: 12.79 min Scan# 1848

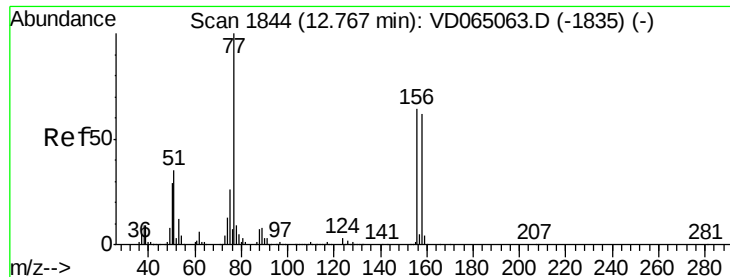
Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	75	Resp:	49223
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.466 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

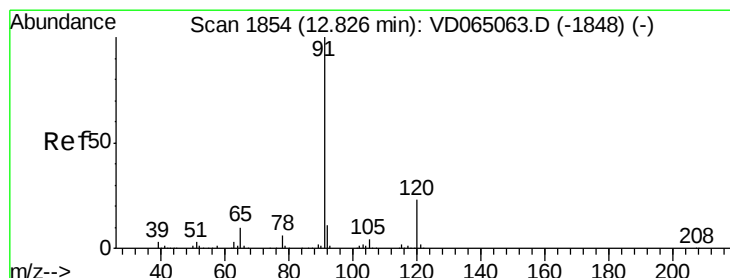
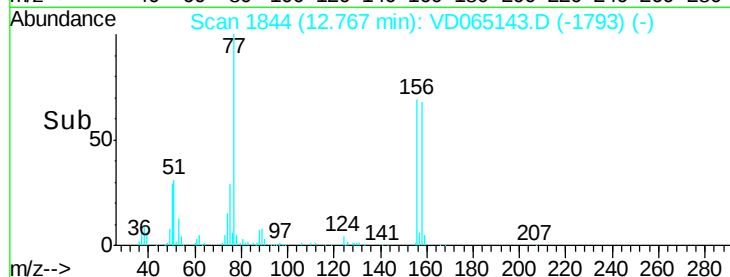
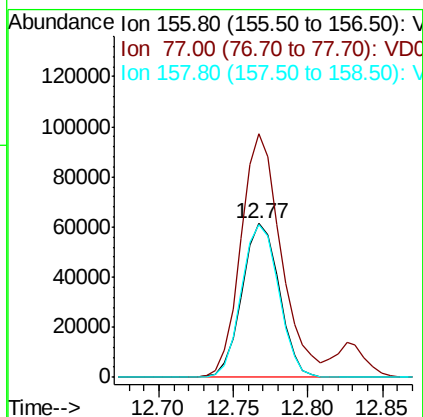
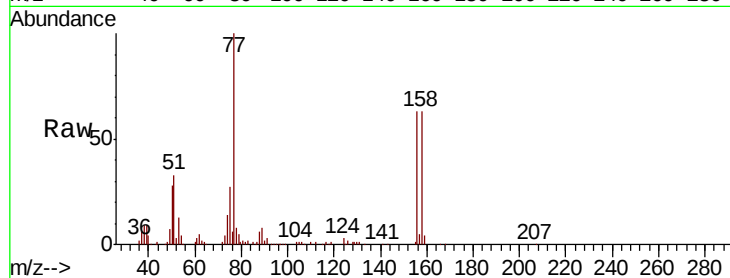
ClientSampleId :

VD0211SBS01

Tot Ion:	156	Resp:	106092
Ion Ratio	Lower	Upper	
156	100		
77	170.7	85.6	256.8
158	99.1	47.4	142.2

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#78

n-propylbenzene

Concen: 22.084 ug/l

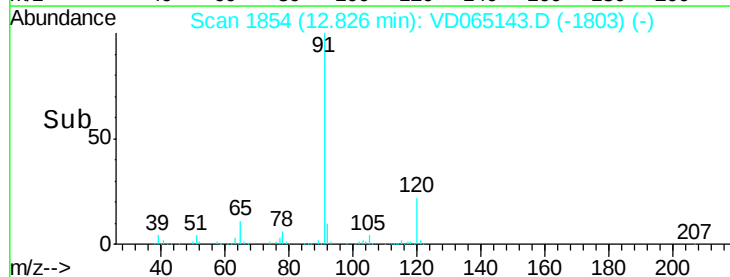
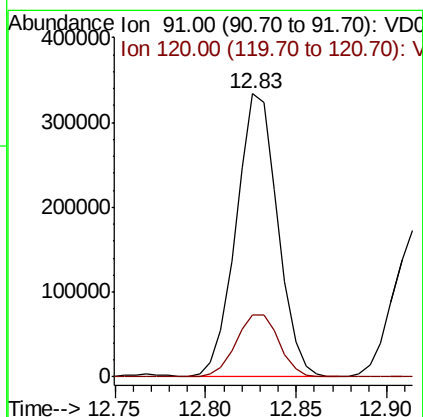
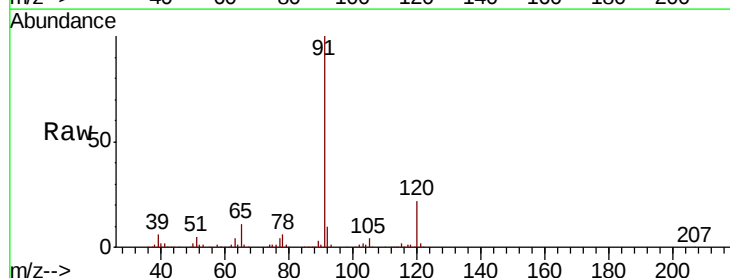
RT: 12.83 min Scan# 1854

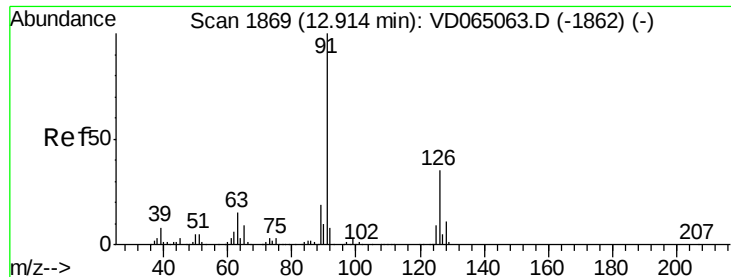
Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	91	Resp:	530516
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.8	35.3





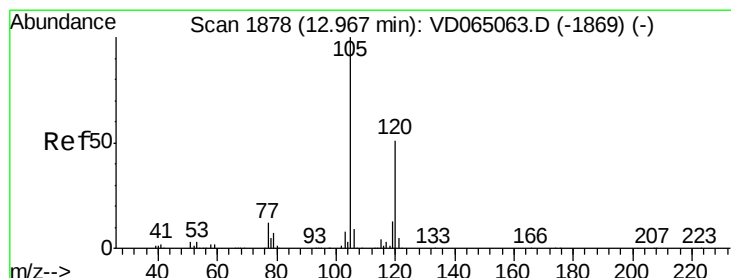
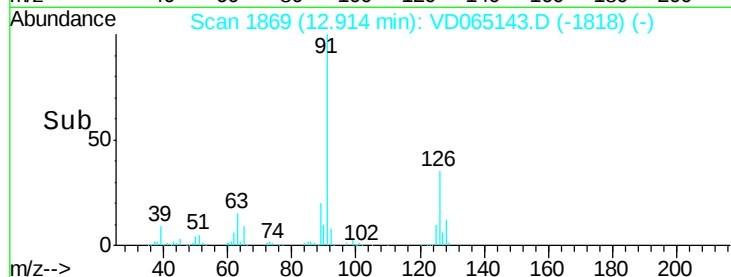
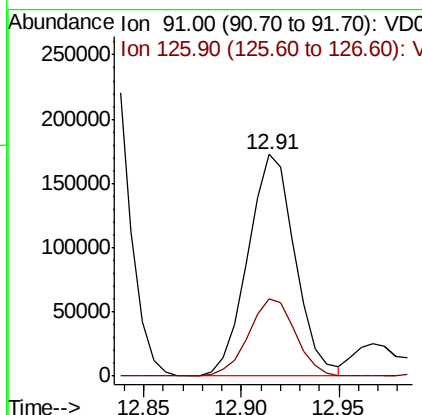
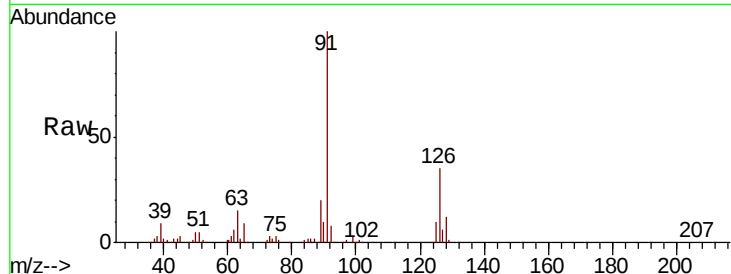
#79
 2-Chlorotoluene
 Concen: 21.526 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

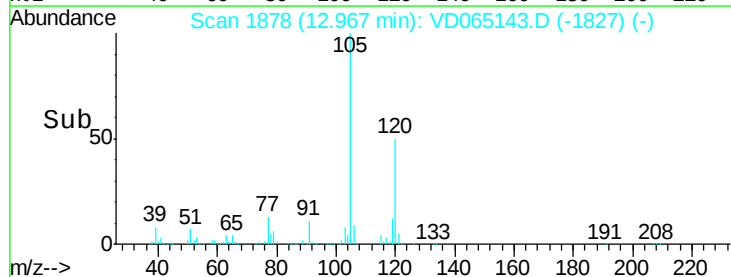
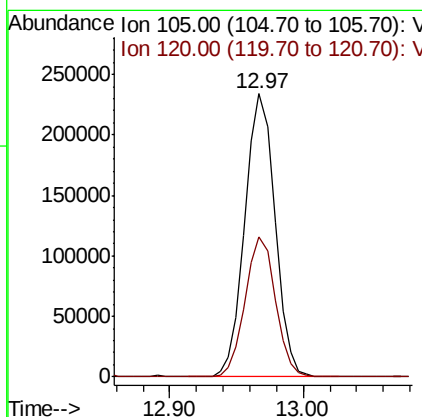
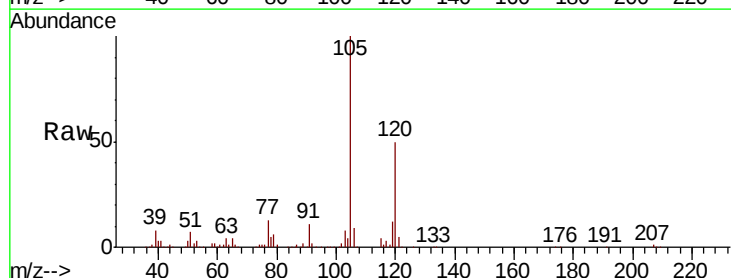
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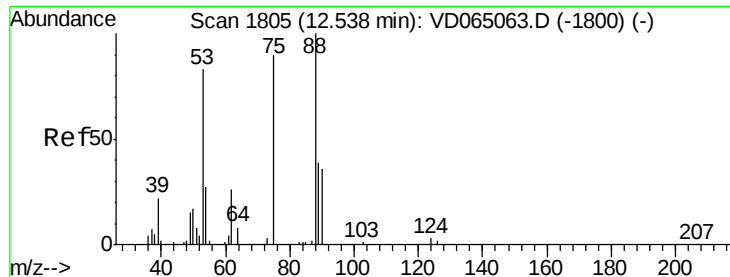
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#80
 1,3,5-Trimethylbenzene
 Concen: 21.650 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.0	25.1	75.4





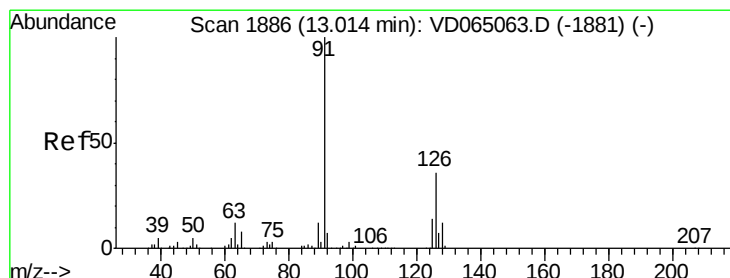
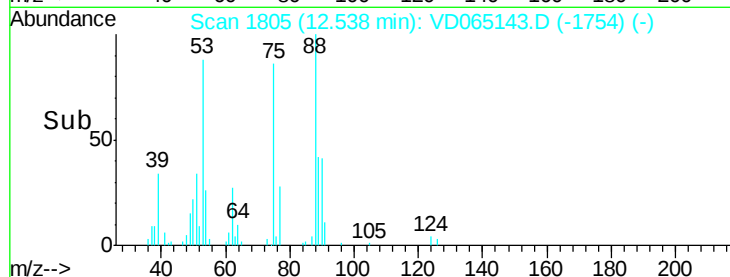
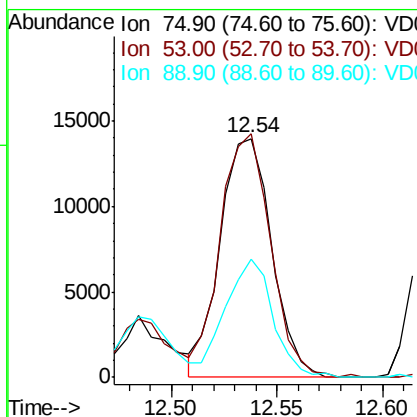
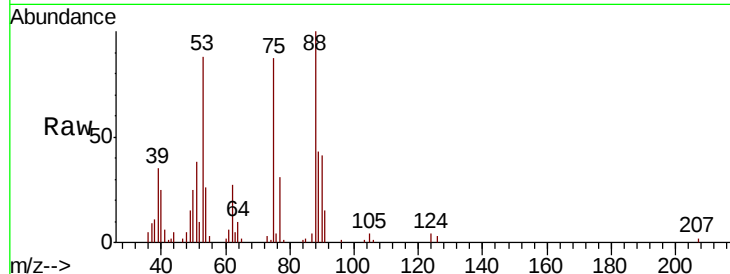
#81
trans-1,4-Dichloro-2-butene
Concen: 20.887 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.9	78.5	117.7
89	46.3	37.0	55.4

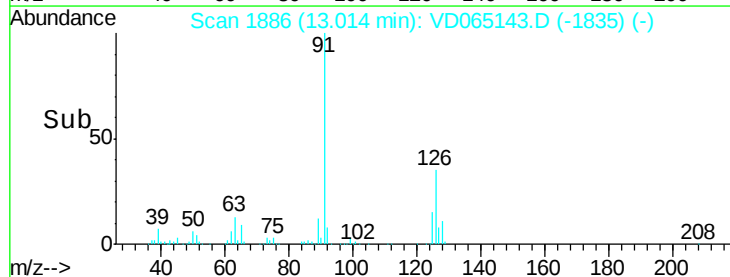
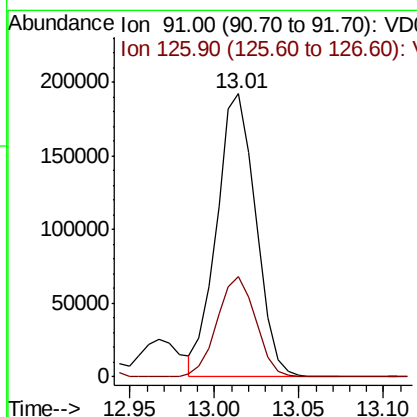
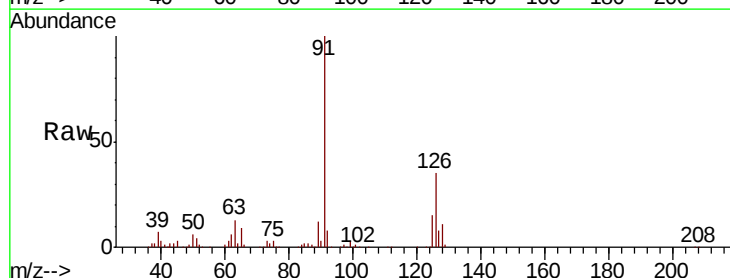
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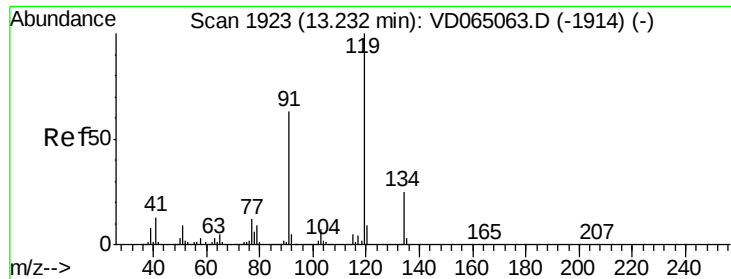
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#82
4-Chlorotoluene
Concen: 22.064 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.5	52.5





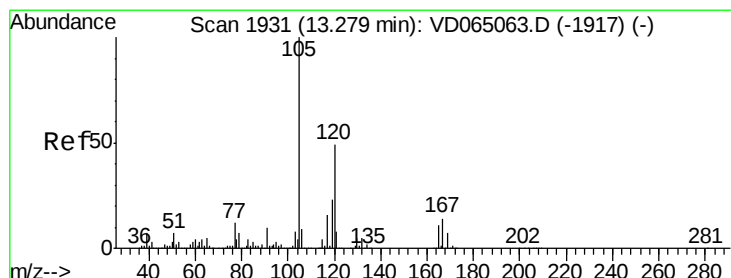
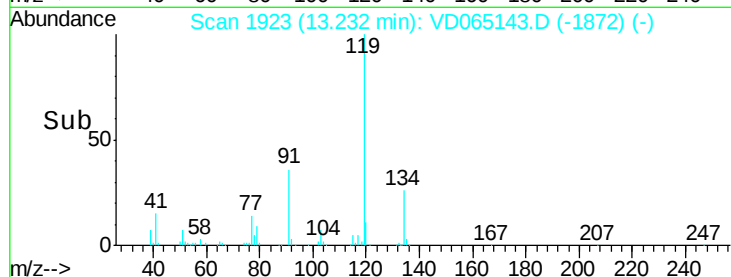
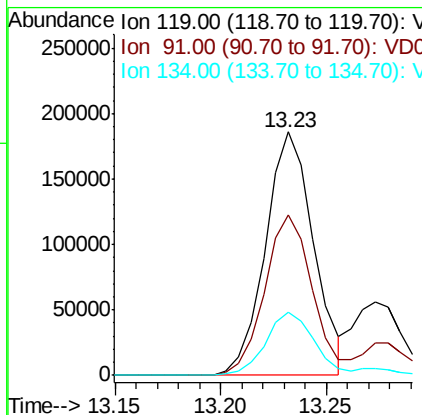
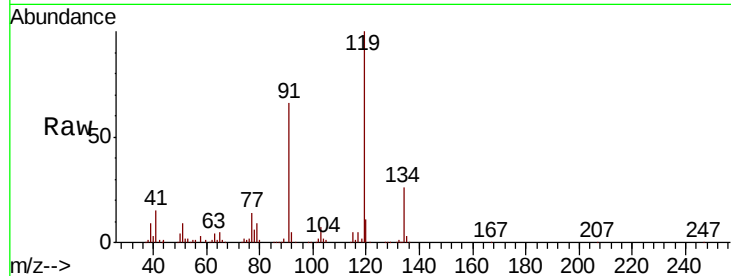
#83
tert-Butylbenzene
Concen: 20.396 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.3	96.9
134	25.9	13.8	41.3

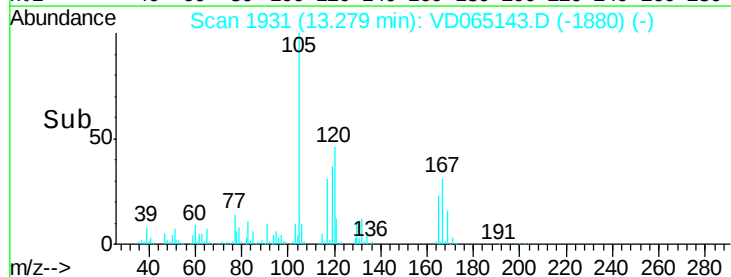
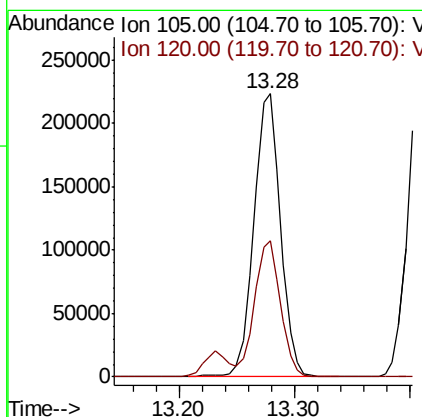
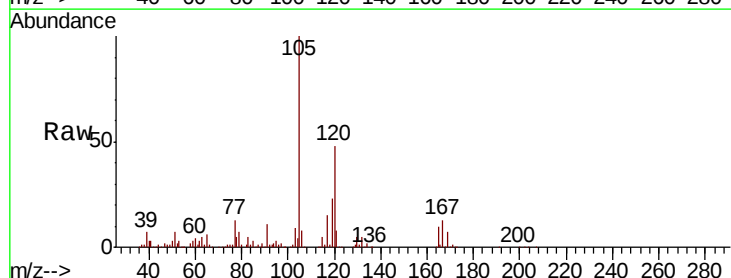
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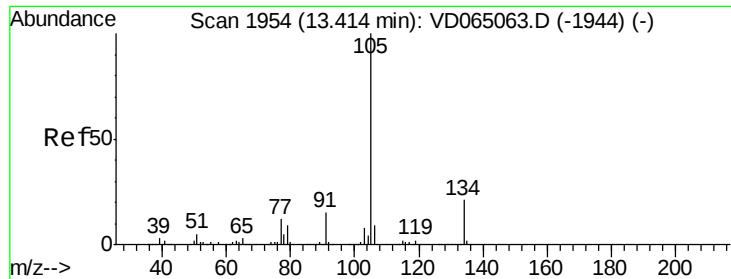
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.559 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.5	70.5





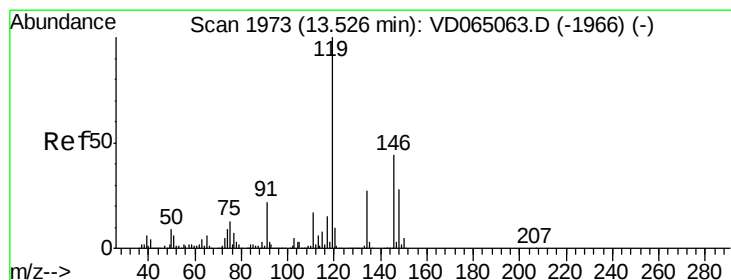
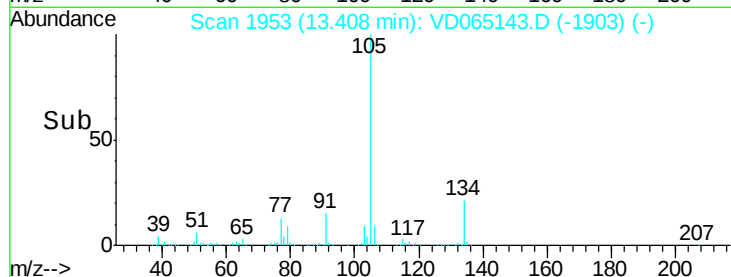
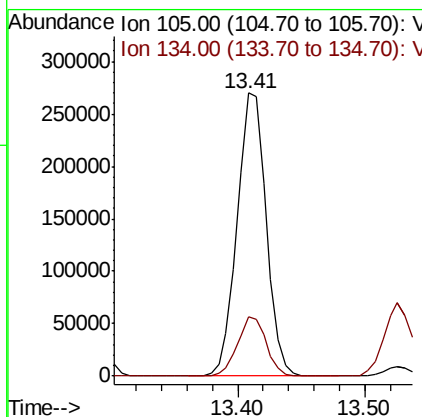
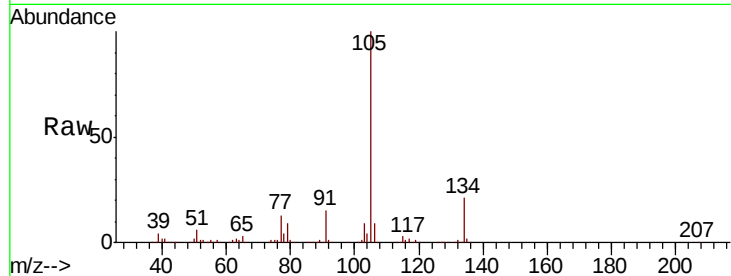
#85
 sec-Butylbenzene
 Concen: 21.643 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.4	31.1

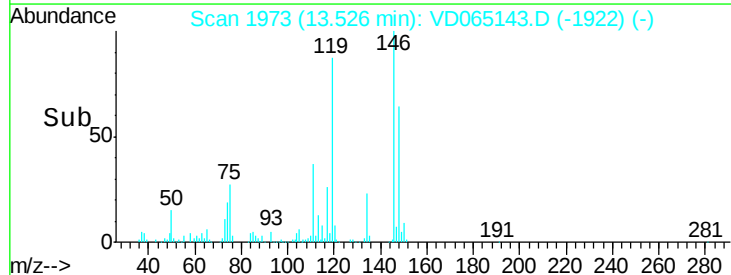
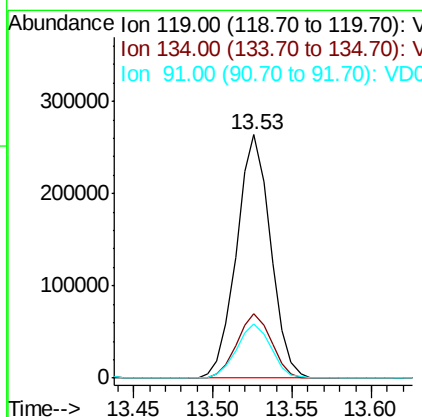
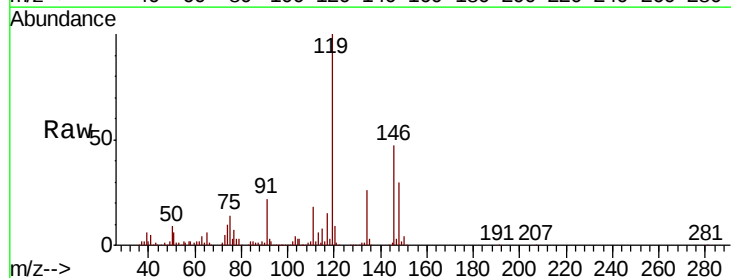
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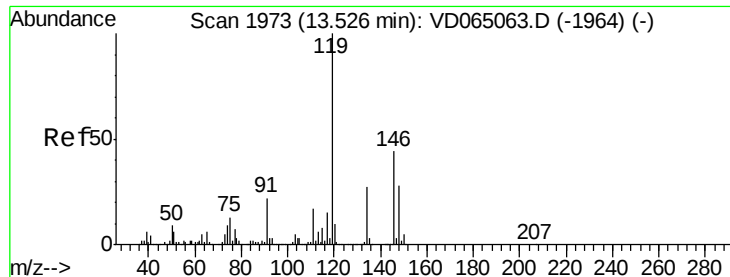
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#86
 p-Isopropyltoluene
 Concen: 21.348 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.5	40.5
91	22.8	11.3	33.9





#87

1,3-Dichlorobenzene

Concen: 22.080 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

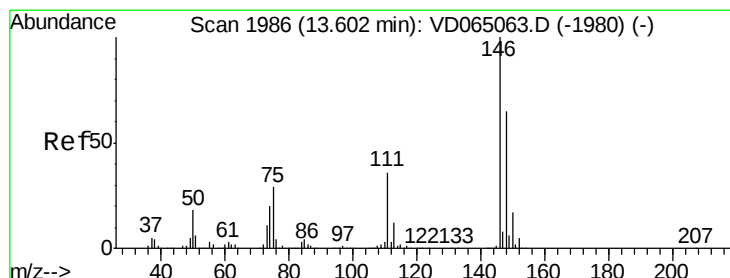
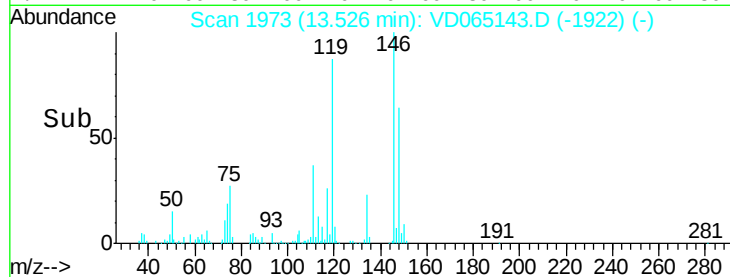
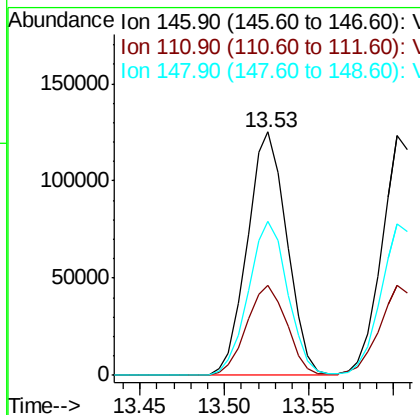
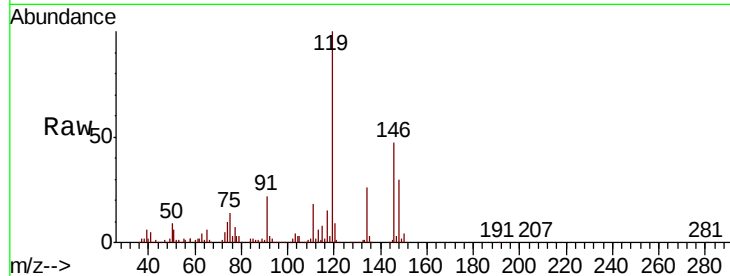
ClientSampleId :

VD0211SBS01

Tot Ion:	146	Resp:	204316
Ion Ratio	Lower	Upper	
146	100		
111	37.4	19.4	58.4
148	63.1	32.3	96.8

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 21.698 ug/l

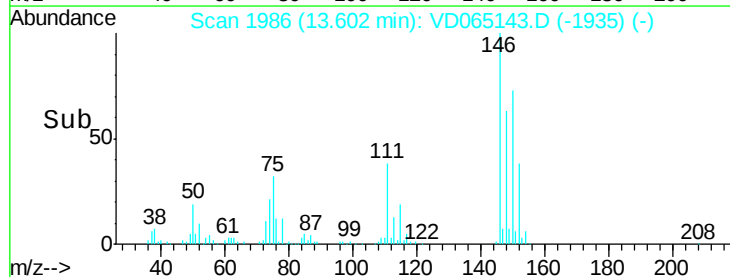
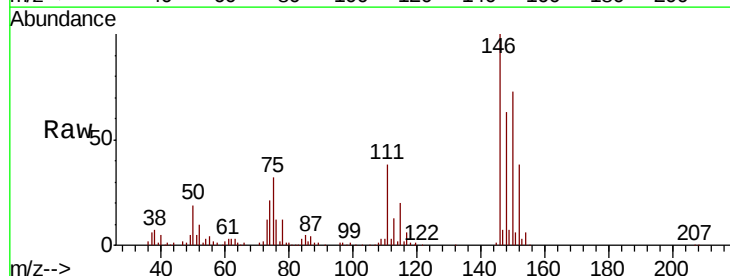
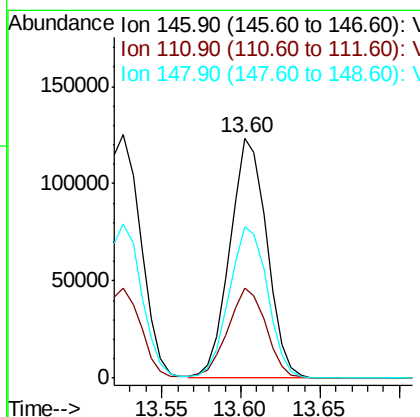
RT: 13.60 min Scan# 1986

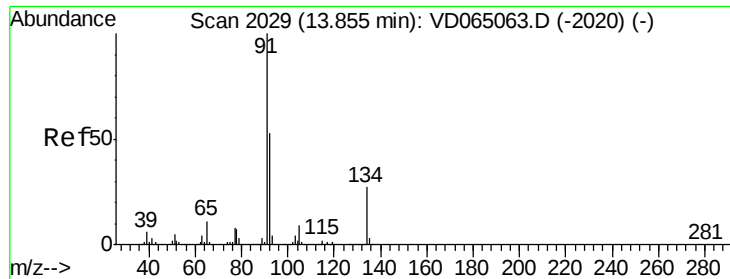
Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	146	Resp:	199835
Ion Ratio	Lower	Upper	
146	100		
111	39.1	18.5	55.5
148	65.5	32.7	98.1





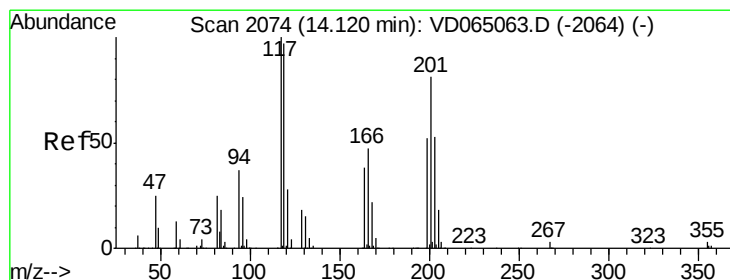
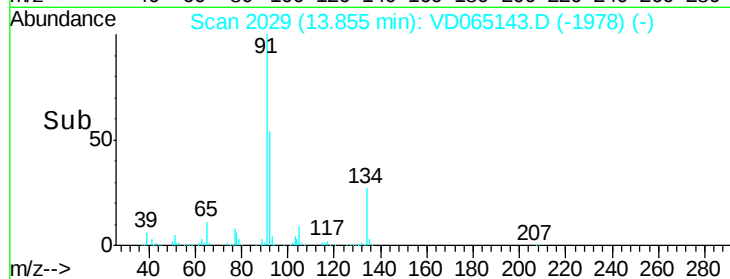
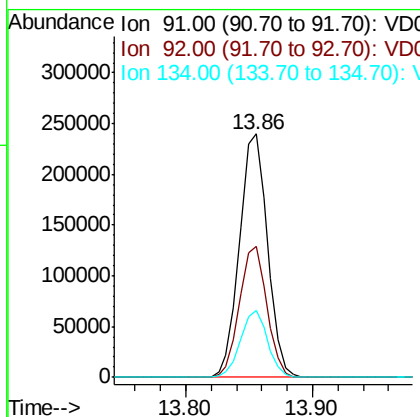
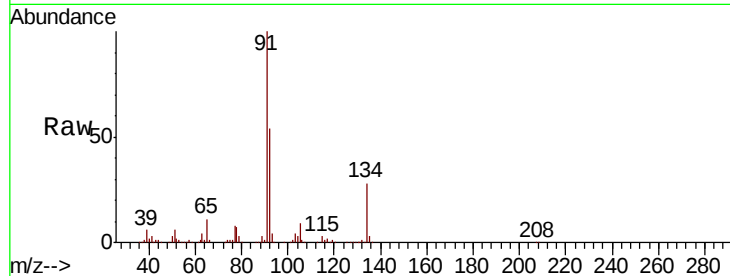
#89
n-Butylbenzene
Concen: 21.627 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.7	80.1
134	26.8	13.4	40.2

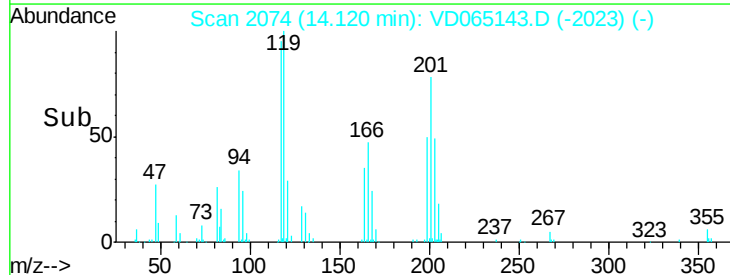
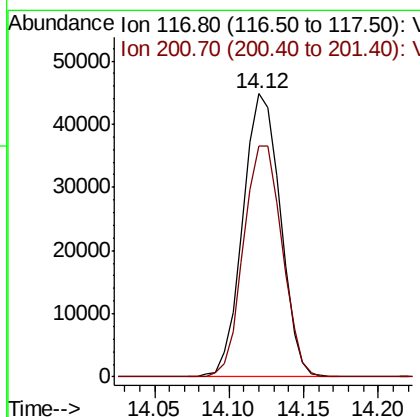
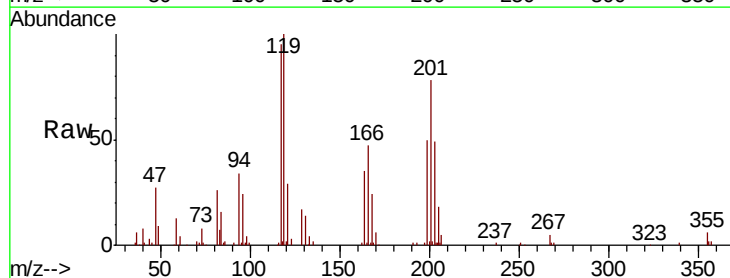
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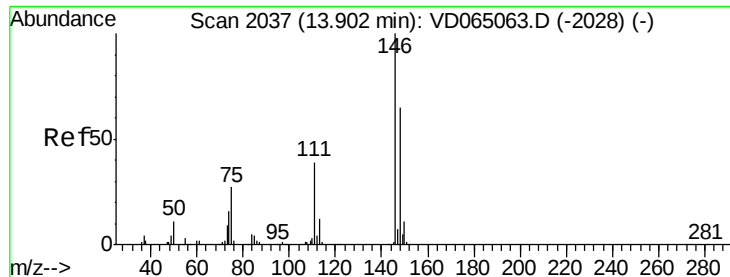
MMDadoda
2/12/2020 3:12:48 PM



#90
Hexachloroethane
Concen: 22.469 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.7	42.5	127.6





#91

1,2-Dichlorobenzene

Concen: 21.812 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Instrument :

MSVOA_D

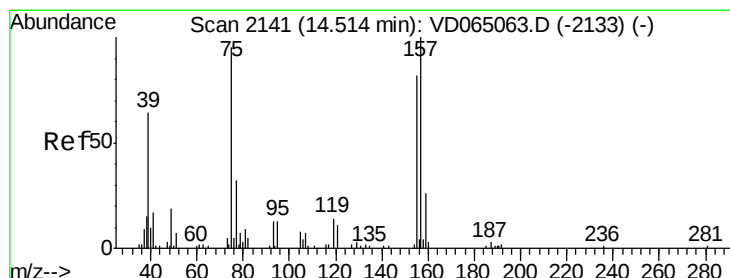
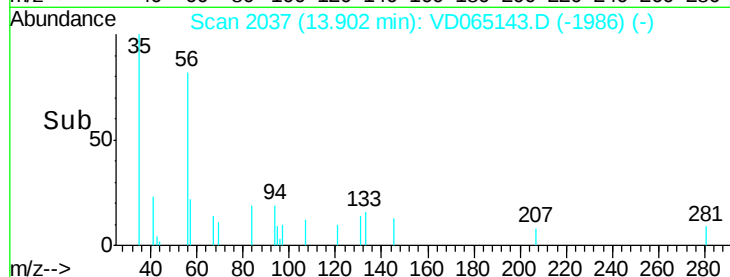
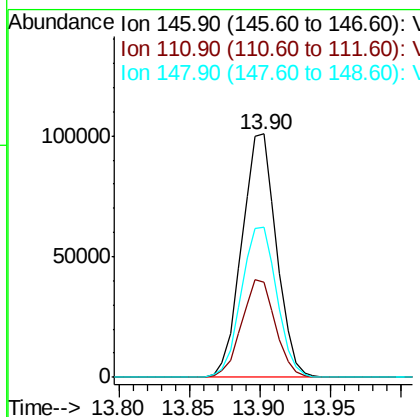
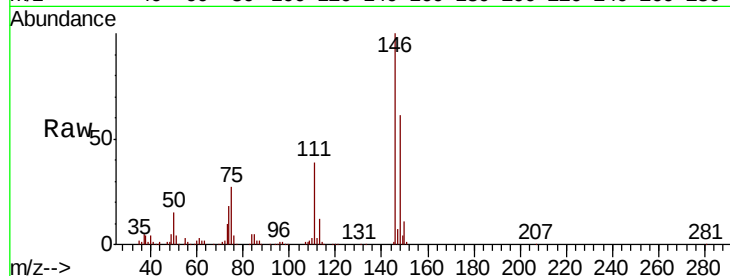
ClientSampleId :

VD0211SBS01

Tot Ion:	146	Resp:	172884
Ion Ratio	Lower	Upper	
146	100		
111	39.3	19.7	59.1
148	63.3	31.9	95.5

Manual Integrations
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2/12/2020 3:12:48 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.282 ug/l

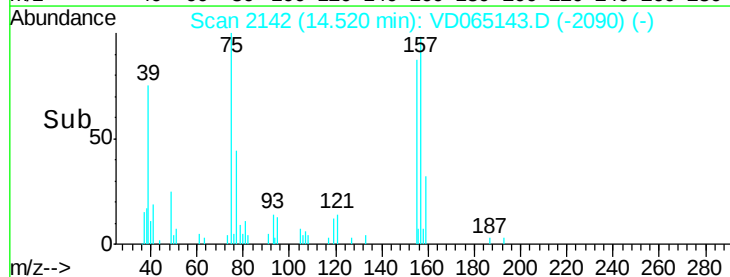
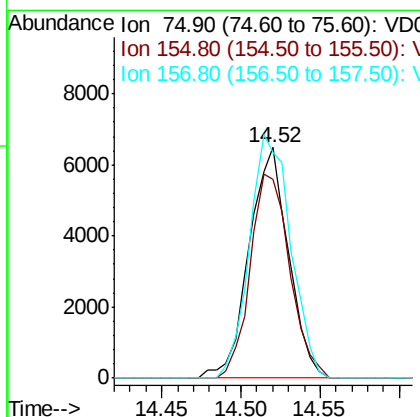
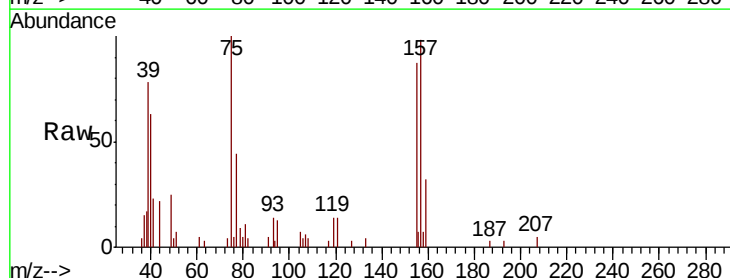
RT: 14.52 min Scan# 2142

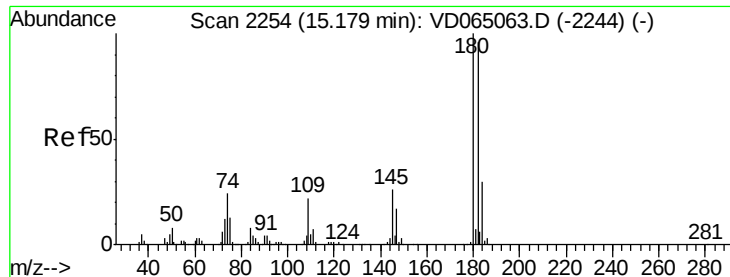
Delta R.T. 0.01 min

Lab File: VD065143.D

Acq: 11 Feb 2020 11:47

Tgt Ion:	75	Resp:	11216
Ion Ratio	Lower	Upper	
75	100		
155	88.6	43.4	130.1
157	110.3	55.8	167.3





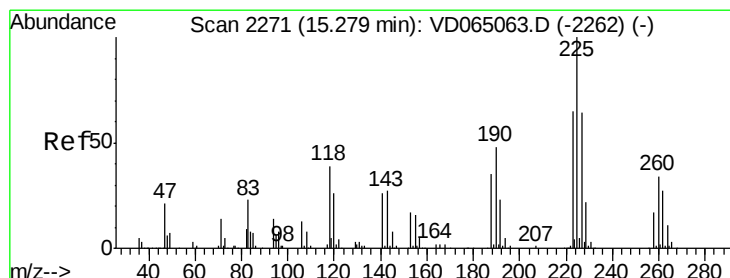
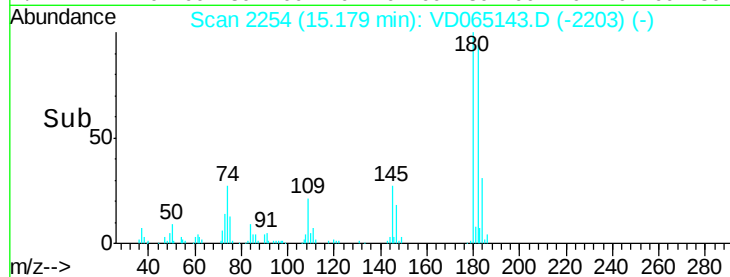
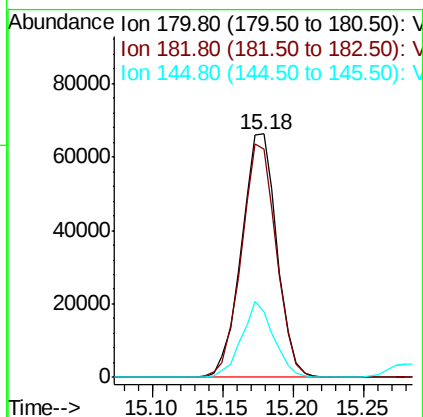
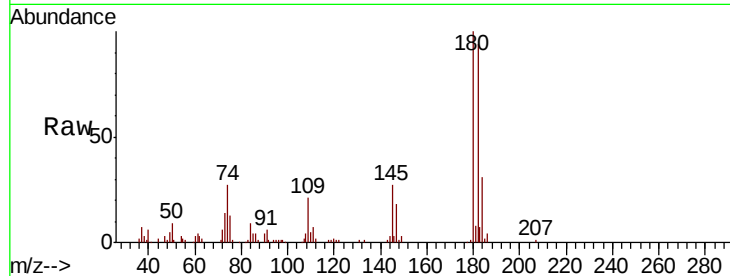
#93
 1,2,4-Trichlorobenzene
 Concen: 20.431 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115739		
182	95.0		47.4	142.3
145	28.5		14.1	42.4

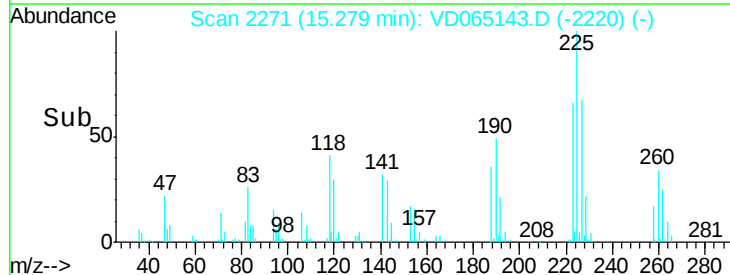
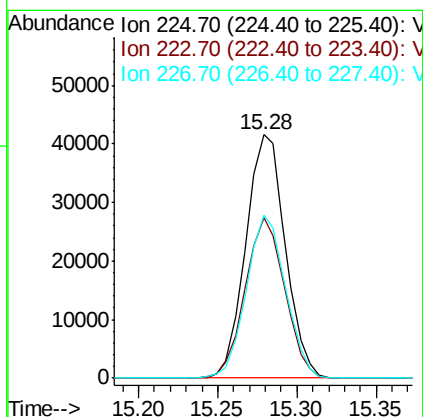
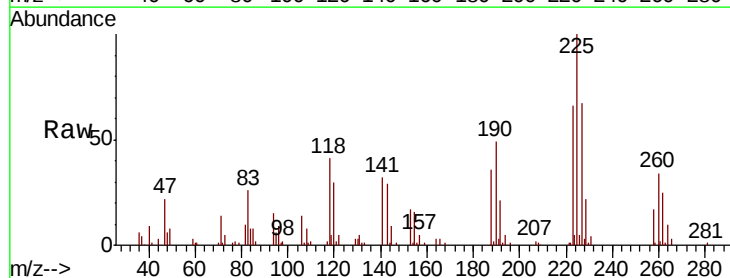
Manual Integrations
 APPROVED

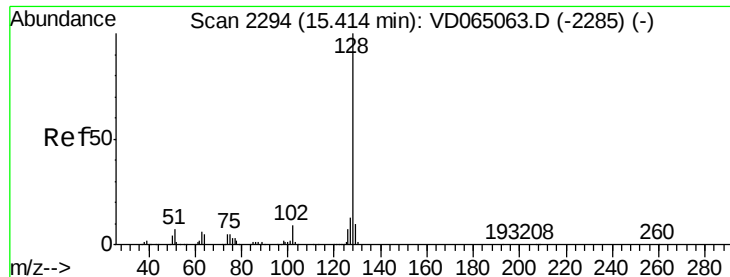
MMDadoda
 2/12/2020 3:12:48 PM



#94
 Hexachlorobutadiene
 Concen: 20.706 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065143.D
 Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	72123		
223	65.6		31.4	94.0
227	66.2		31.8	95.3





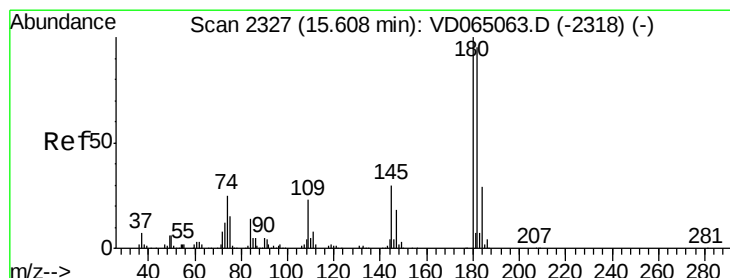
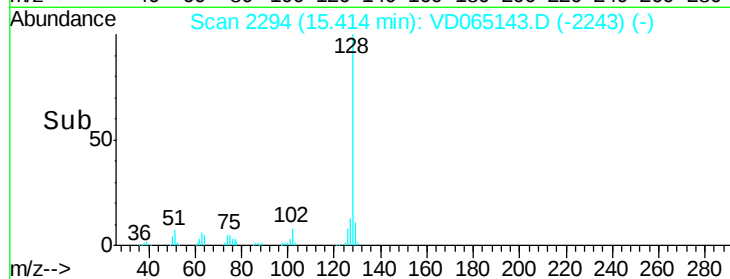
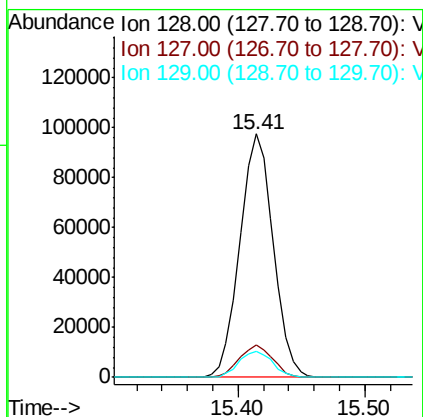
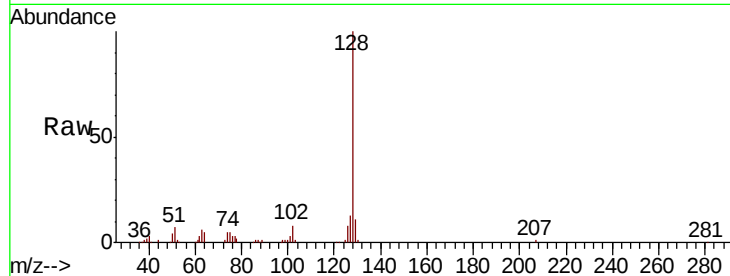
#95
Naphthalene
Concen: 18.899 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Instrument :
MSVOA_D
ClientSampleId :
VD0211SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:12:48 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.267 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065143.D
Acq: 11 Feb 2020 11:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.1	141.4
145	30.9	14.9	44.9

