

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012220\
 Data File : VD064915.D
 Acq On : 22 Jan 2020 14:01
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/23/2020 11:13:39 AM

Quant Time: Jan 22 23:40:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	405525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	575742	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	514102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	258991	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	200630	56.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.22%	
35) Dibromofluoromethane	7.92	113	198482	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	
50) Toluene-d8	10.34	98	750042	55.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.88%	
62) 4-Bromofluorobenzene	12.64	95	238003	55.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	136566	43.333	ug/l	99
3) Chloromethane	2.21	50	200752	45.547	ug/l	99
4) Vinyl Chloride	2.35	62	244435	45.484	ug/l	97
5) Bromomethane	2.77	94	161960	41.449	ug/l	96
6) Chloroethane	2.93	64	164783	45.761	ug/l	99
7) Trichlorofluoromethane	3.27	101	417316	46.119	ug/l	98
8) Diethyl Ether	3.71	74	89431	49.770	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.09	101	198603	52.997	ug/l	97
10) Methyl Iodide	4.30	142	204503	50.804	ug/l	99
11) Tert butyl alcohol	5.25	59	66842	326.163	ug/l #	93
12) 1,1-Dichloroethene	4.06	96	178586	50.056	ug/l	93
13) Acrolein	3.92	56	63884	223.678	ug/l	99
14) Allyl chloride	4.71	41	299816	53.899	ug/l	100
15) Acrylonitrile	5.43	53	210398	281.109	ug/l	99
16) Acetone	4.17	43	248639	344.766	ug/l	94
17) Carbon Disulfide	4.40	76	491992	42.648	ug/l	99
18) Methyl Acetate	4.73	43	109657	54.470	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	431583	54.462	ug/l	100
20) Methylene Chloride	4.96	84	210037	58.237	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	207525	51.075	ug/l	93
22) Diisopropyl ether	6.37	45	617006	55.611	ug/l	98
23) Vinyl Acetate	6.31	43	1777758	282.463	ug/l	98
24) 1,1-Dichloroethane	6.26	63	368638	55.345	ug/l	99
25) 2-Butanone	7.22	43	289433	294.462	ug/l	99
26) 2,2-Dichloropropane	7.21	77	353195	57.033	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	231686	52.835	ug/l	96
28) Bromochloromethane	7.55	49	141915	54.810	ug/l	98
29) Tetrahydrofuran	7.57	42	170058	278.211	ug/l	97
30) Chloroform	7.71	83	381959	54.658	ug/l	97
31) Cyclohexane	7.98	56	319293	47.889	ug/l	93
32) 1,1,1-Trichloroethane	7.91	97	361255	55.038	ug/l	99
36) 1,1-Dichloropropene	8.11	75	299664	54.076	ug/l	99
37) Ethyl Acetate	7.30	43	120266	55.244	ug/l	98
38) Carbon Tetrachloride	8.10	117	334368	56.587	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	347136	51.721	ug/l	94
40) Benzene	8.36	78	821770	54.322	ug/l	97
41) Methacrylonitrile	7.53	41	74942	59.332	ug/l	97
42) 1,2-Dichloroethane	8.43	62	244676	55.970	ug/l	100
43) Isopropyl Acetate	8.46	43	240906	55.597	ug/l	99
44) Trichloroethene	9.11	130	233081	52.448	ug/l	97
45) 1,2-Dichloropropane	9.39	63	204641	56.657	ug/l	99
46) Dibromomethane	9.48	93	109304	54.278	ug/l	98
47) Bromodichloromethane	9.67	83	299079	55.813	ug/l	99
48) Methyl methacrylate	9.46	41	110057	53.942	ug/l	93
49) 1,4-Dioxane	9.47	88	24806	1068.293	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	612454	285.958	ug/l	100
52) Toluene	10.41	92	541313	54.541	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	282105	56.467	ug/l	97
54) cis-1,3-Dichloropropene	10.09	75	331226	56.227	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	149194	54.974	ug/l	95
56) Ethyl methacrylate	10.67	69	188215	55.532	ug/l	96
57) 1,3-Dichloropropane	10.95	76	251974	53.923	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	333255	258.076	ug/l	99
59) 2-Hexanone	10.99	43	445076	306.177	ug/l	100
60) Dibromochloromethane	11.14	129	204383	54.459	ug/l	98
61) 1,2-Dibromoethane	11.25	107	143748	53.702	ug/l	99
64) Tetrachloroethene	10.88	164	198825	50.411	ug/l	94
65) Chlorobenzene	11.67	112	562345	52.703	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.75	131	220252	54.755	ug/l	100
67) Ethyl Benzene	11.75	91	1046335	54.027	ug/l	99
68) m/p-Xylenes	11.86	106	816056	109.168	ug/l	99
69) o-Xylene	12.18	106	361143	53.487	ug/l	99
70) Styrene	12.20	104	648325	54.703	ug/l	99
71) Bromoform	12.37	173	120942	52.723	ug/l #	100
73) Isopropylbenzene	12.48	105	1006417	54.377	ug/l	99
74) N-amyl acetate	12.30	43	214386	54.188	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	157332	54.114	ug/l	100
76) 1,2,3-Trichloropropane	12.79	75	104516m	51.104	ug/l	
77) Bromobenzene	12.77	156	235226	51.724	ug/l	98
78) n-propylbenzene	12.83	91	1197573	55.464	ug/l	98
79) 2-Chlorotoluene	12.91	91	640769	54.022	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	813753	53.524	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	53404	54.613	ug/l	96
82) 4-Chlorotoluene	13.01	91	660478	52.324	ug/l	99
83) tert-Butylbenzene	13.23	119	710000	53.786	ug/l	97
84) 1,2,4-Trimethylbenzene	13.28	105	822013	54.288	ug/l	98
85) sec-Butylbenzene	13.41	105	989344	54.669	ug/l	99
86) p-Isopropyltoluene	13.53	119	940699	54.363	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	455496	52.540	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	445718	52.335	ug/l	100
89) n-Butylbenzene	13.85	91	850909	54.605	ug/l	100
90) Hexachloroethane	14.12	117	178616	54.037	ug/l	93
91) 1,2-Dichlorobenzene	13.90	146	382843	51.788	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	24805	52.628	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	272972	50.149	ug/l	98
94) Hexachlorobutadiene	15.28	225	174569	50.966	ug/l	99
95) Naphthalene	15.41	128	450106	52.270	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	232689	50.075	ug/l	99

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

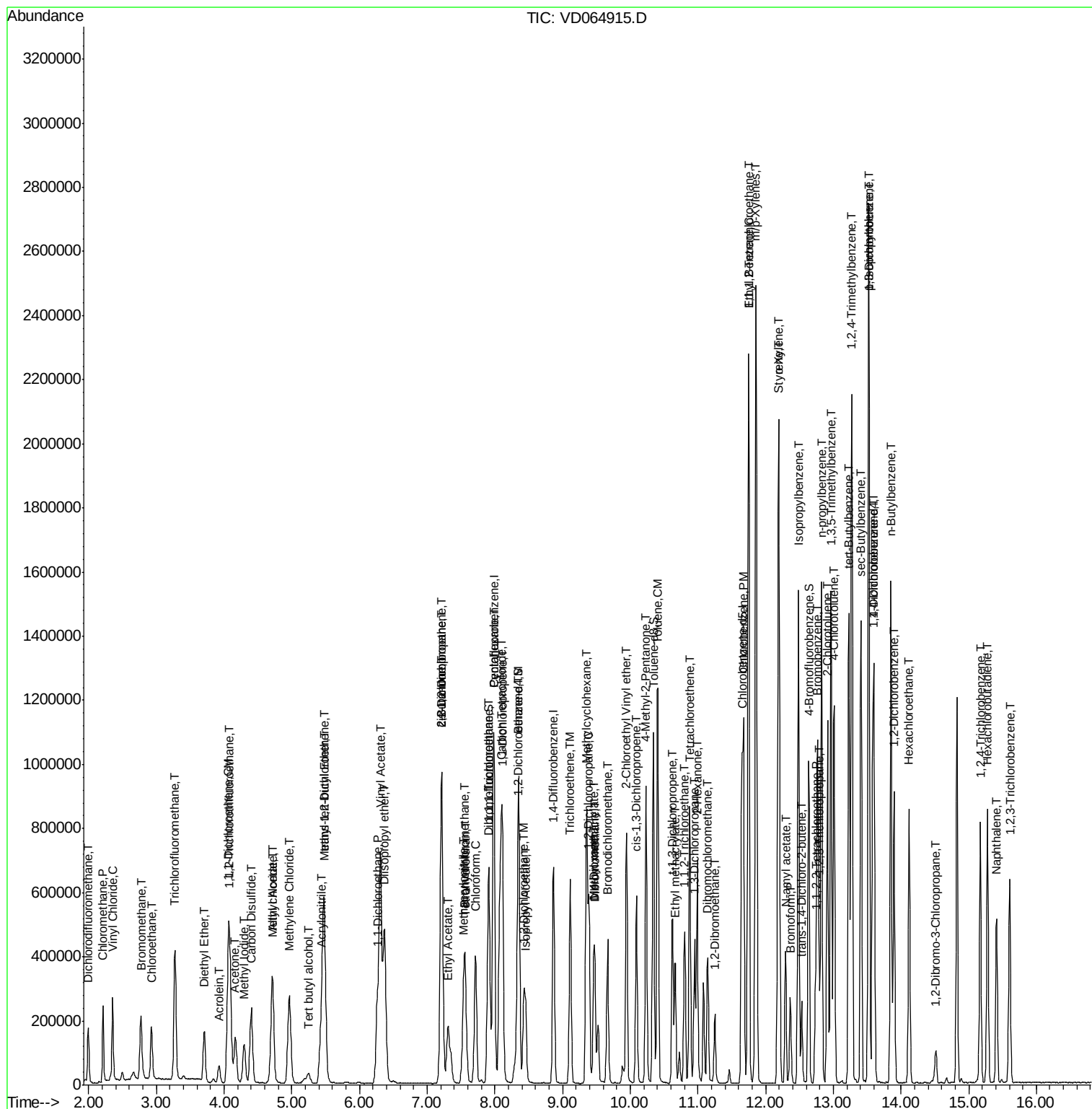
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD012220\
Data File : VD064915.D
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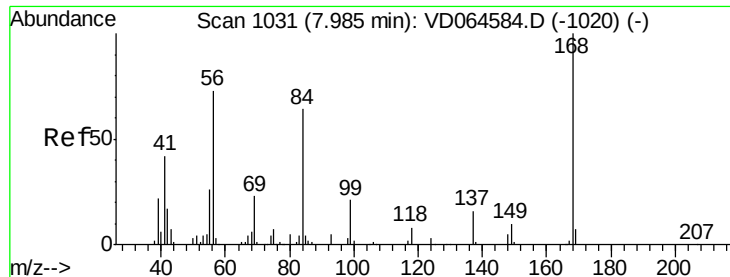
Instrument :
MSVOA_D
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 405525

Ion Ratio Lower Upper

168 100

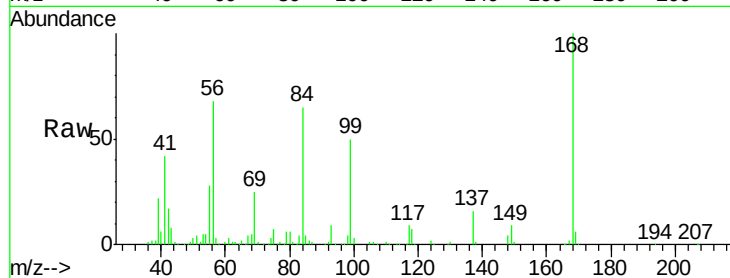
99 50.0 41.8 62.6

Manual Integrations

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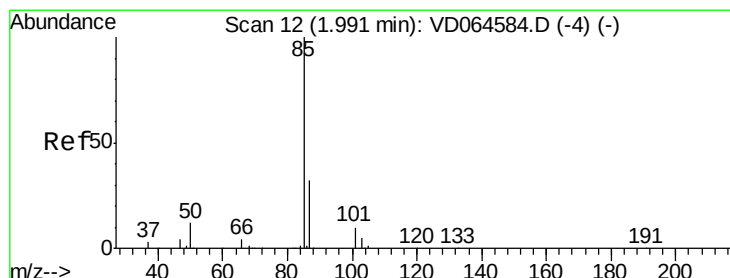
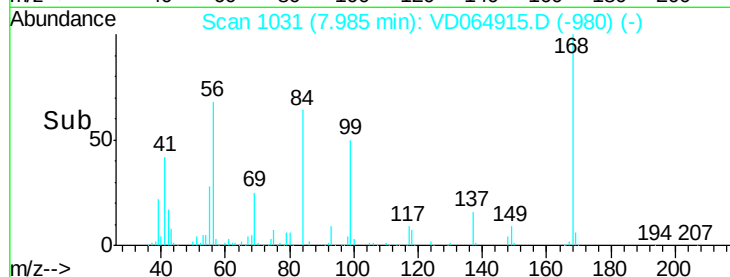
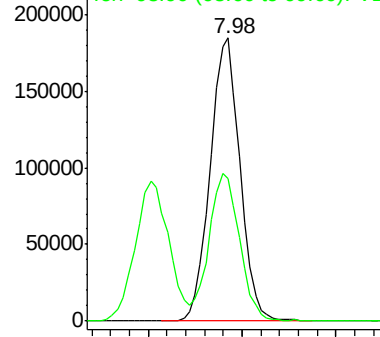
MMDadoda

1/23/2020 11:13:39 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 43.333 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064915.D

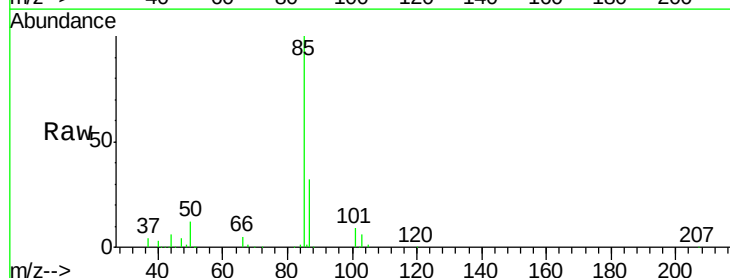
Acq: 22 Jan 2020 14:01

Tgt Ion: 85 Resp: 136566

Ion Ratio Lower Upper

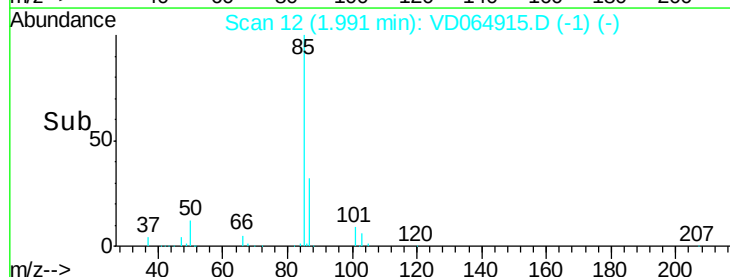
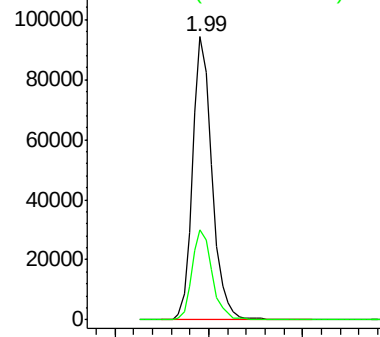
85 100

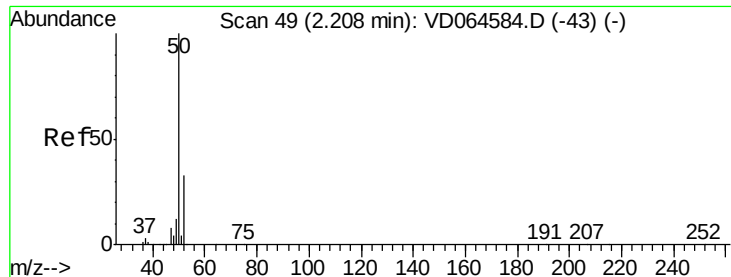
87 31.8 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 45.547 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 200752

Ion Ratio Lower Upper

50 100

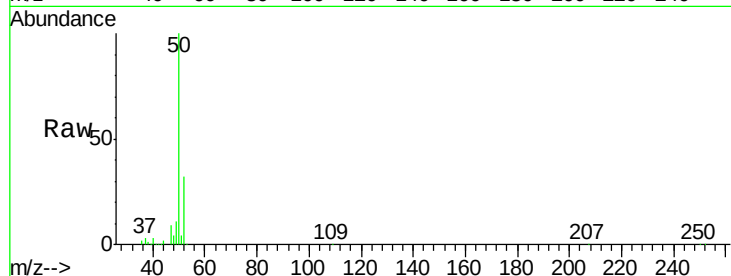
52 32.4 26.5 39.7

Manual Integrations

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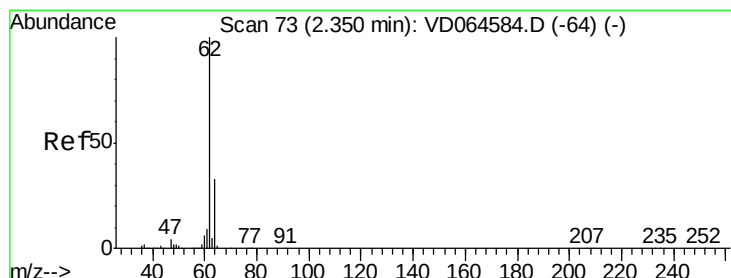
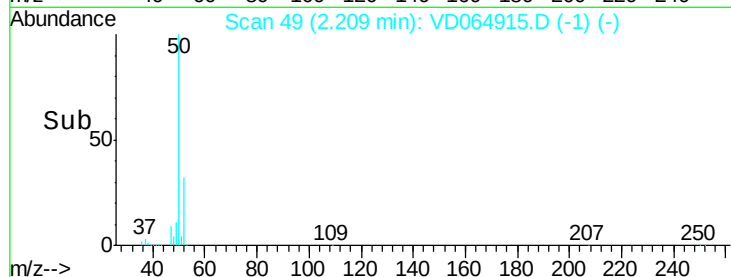
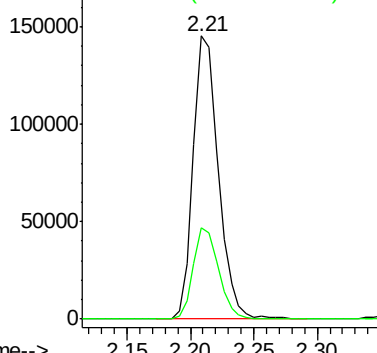
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 45.484 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064915.D

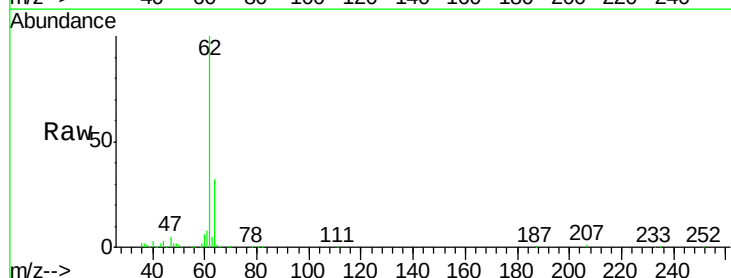
Acq: 22 Jan 2020 14:01

Tgt Ion: 62 Resp: 244435

Ion Ratio Lower Upper

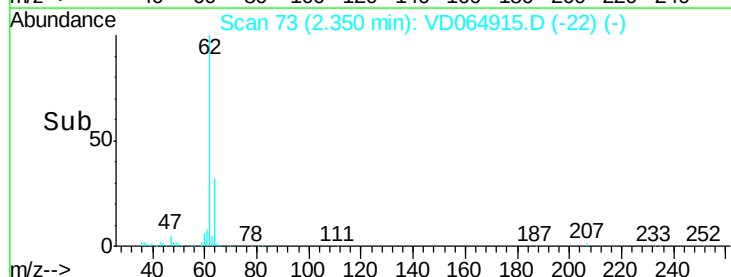
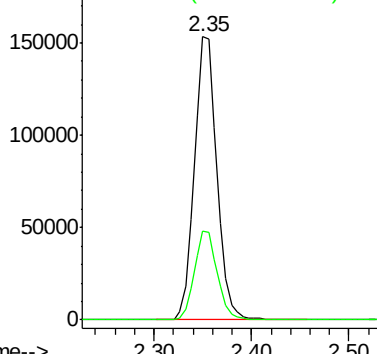
62 100

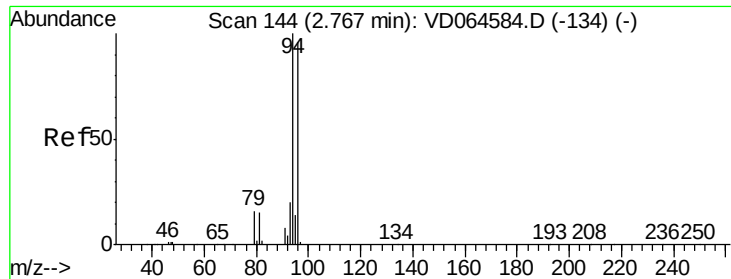
64 31.6 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 41.449 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

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VSTDCCC050

Tot Ion: 94 Resp: 161960

Ion Ratio Lower Upper

94 100

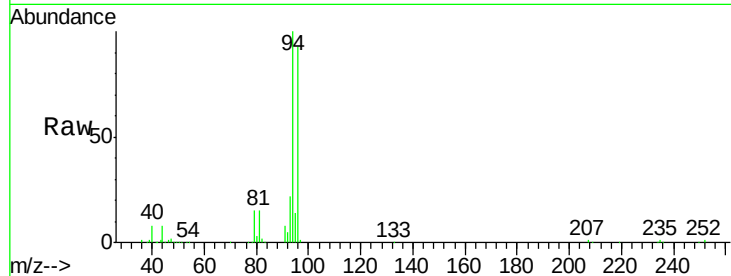
96 92.6 77.2 115.8

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

2.77

80000

60000

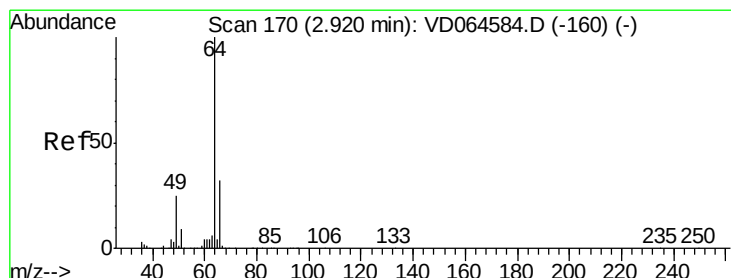
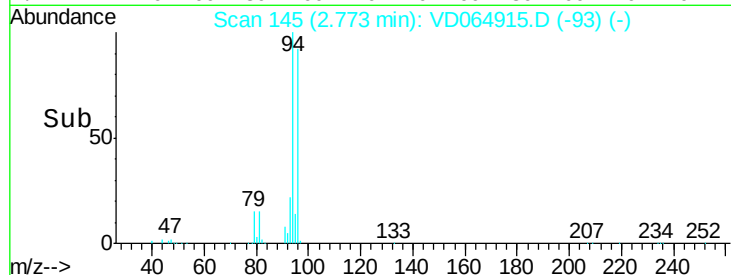
40000

20000

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Time-->

2.70 2.80 2.90



#6

Chloroethane

Concen: 45.761 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD064915.D

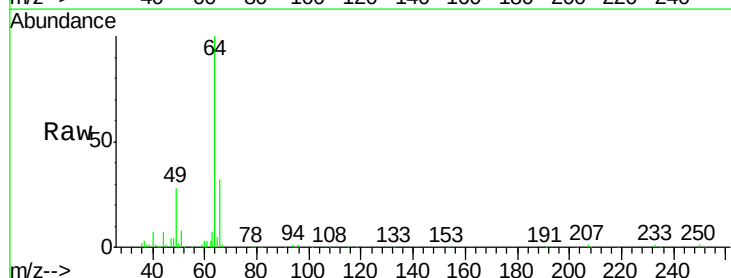
Acq: 22 Jan 2020 14:01

Tgt Ion: 64 Resp: 164783

Ion Ratio Lower Upper

64 100

66 32.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.93

80000

60000

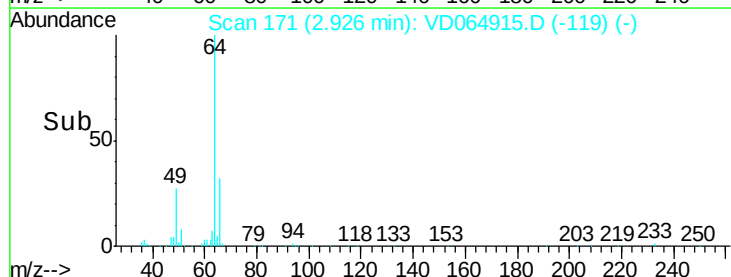
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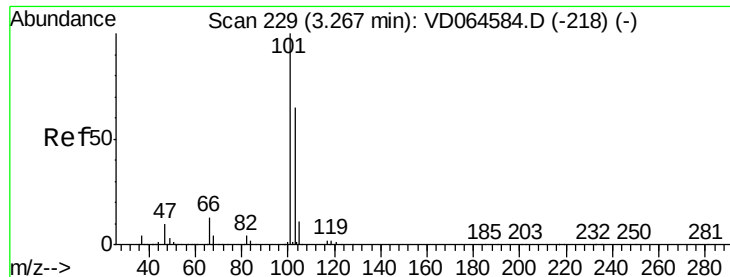
20000

0

Time-->

2.80 2.90 3.00





#7

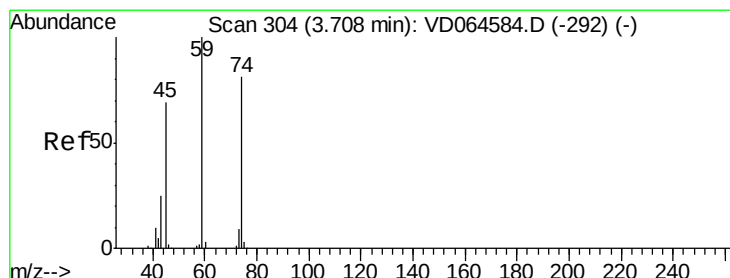
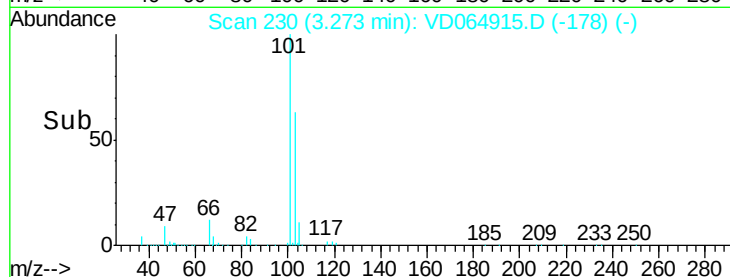
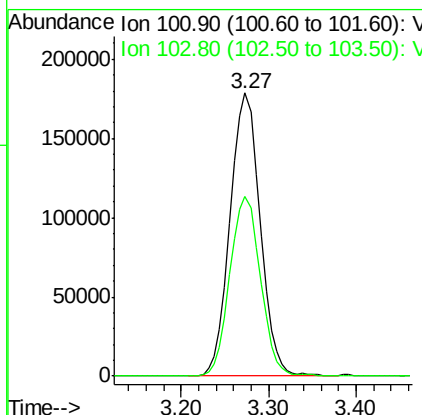
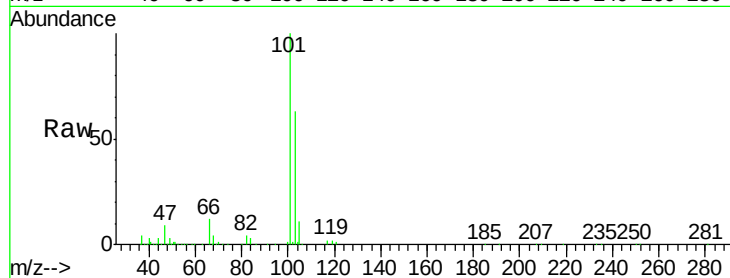
Trichlorofluoromethane
Concen: 46.119 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	52.2	78.4

Manual Integrations
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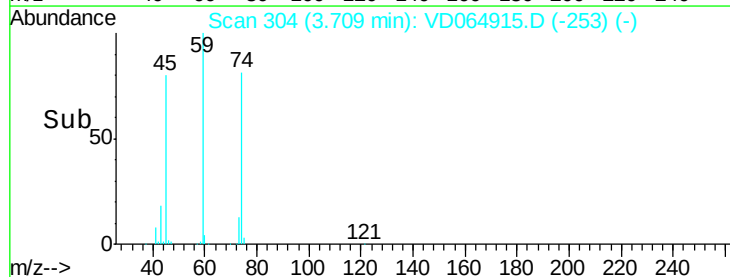
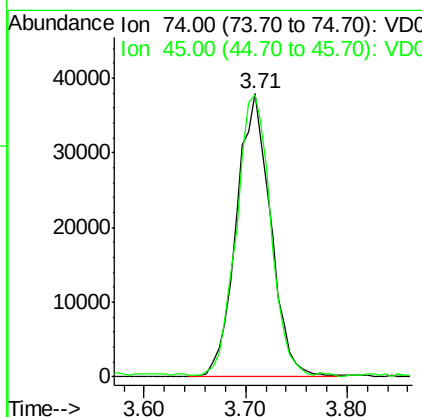
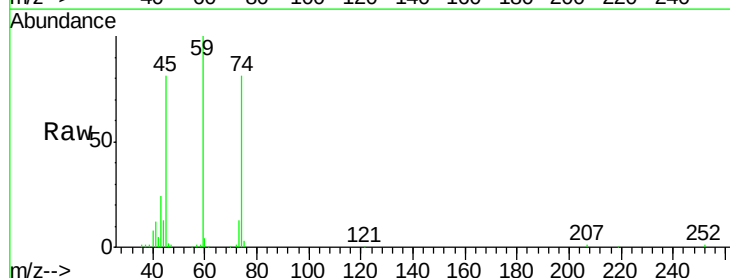
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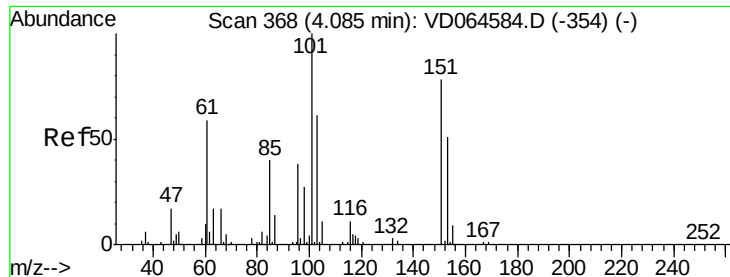


#8

Diethyl Ether
Concen: 49.770 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.1	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.997 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

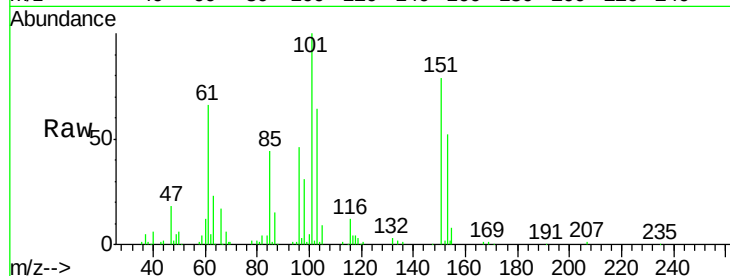
ClientSampleId :

VSTDCCC050

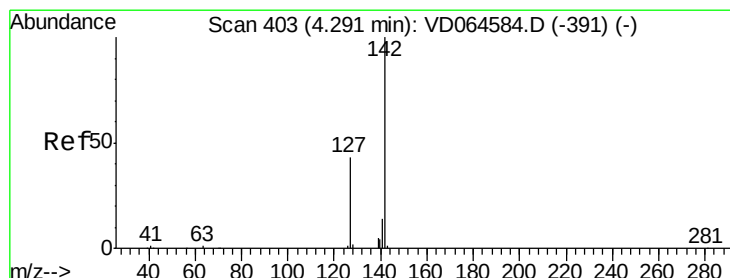
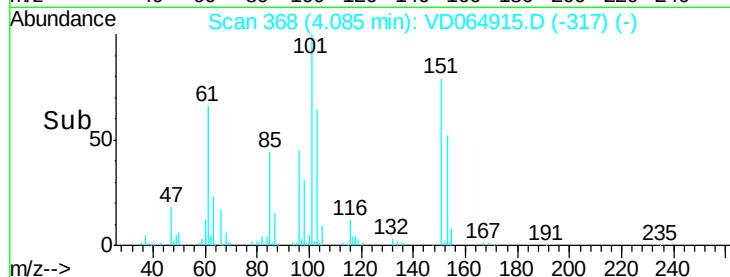
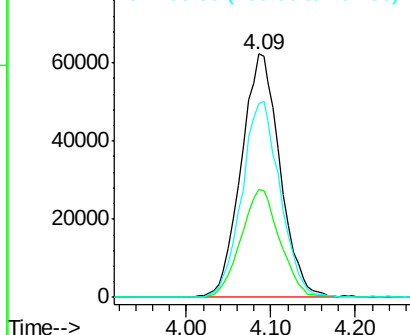
Tot Ion:	101	Resp:	198603
Ion Ratio	Lower	Upper	
101	100		
85	44.6	35.2	52.8
151	79.6	66.2	99.4

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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: 50.804 ug/l

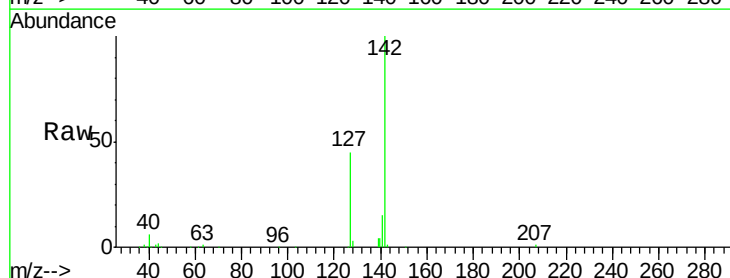
RT: 4.30 min Scan# 404

Delta R.T. 0.01 min

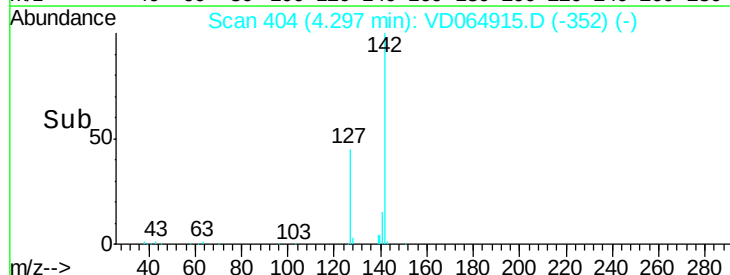
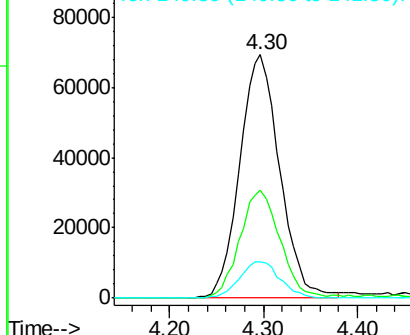
Lab File: VD064915.D

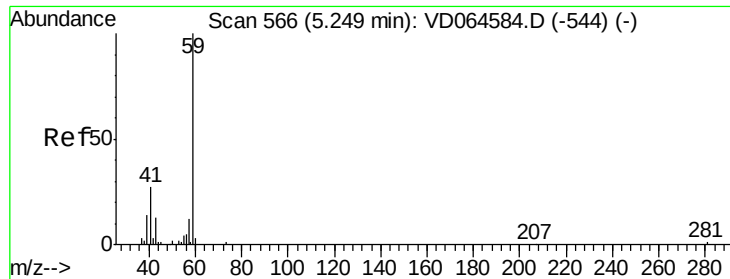
Acq: 22 Jan 2020 14:01

Tgt Ion:	142	Resp:	204503
Ion Ratio	Lower	Upper	
142	100		
127	44.5	36.2	54.4
141	15.4	11.8	17.8



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

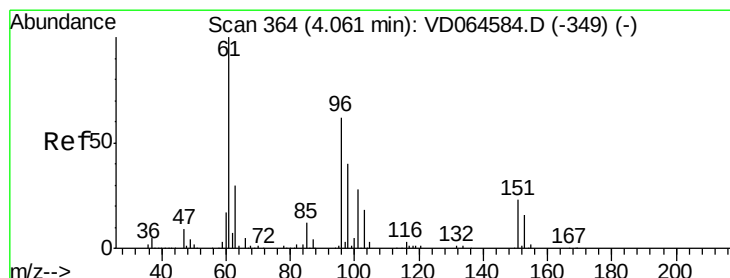
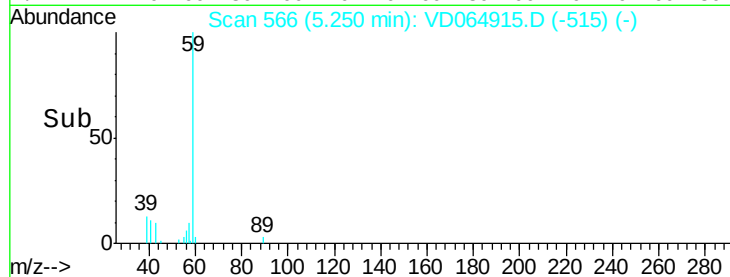
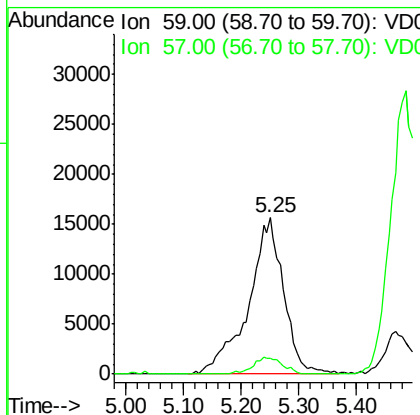
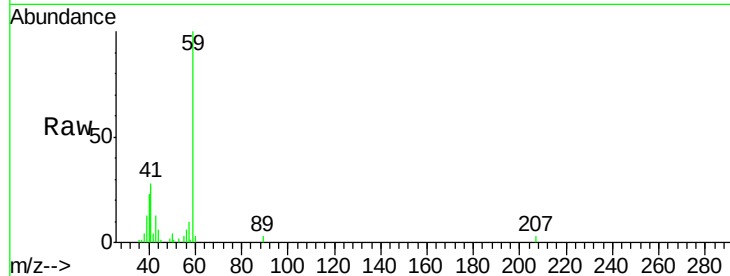
Tert butyl alcohol
Concen: 326.163 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.0	9.3	13.9#

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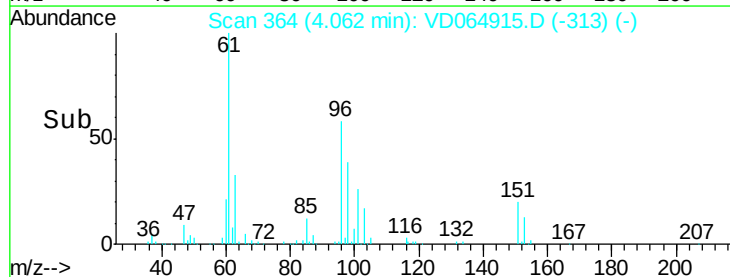
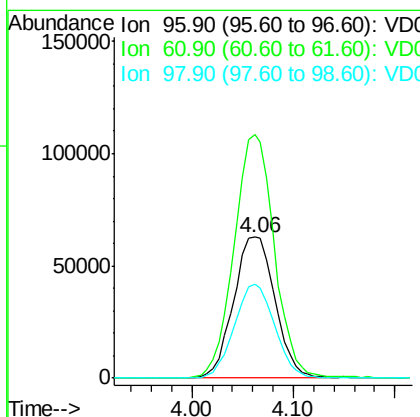
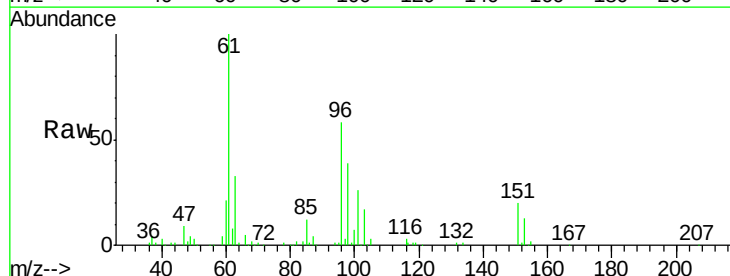
MMDadoda
1/23/2020 11:13:39 AM

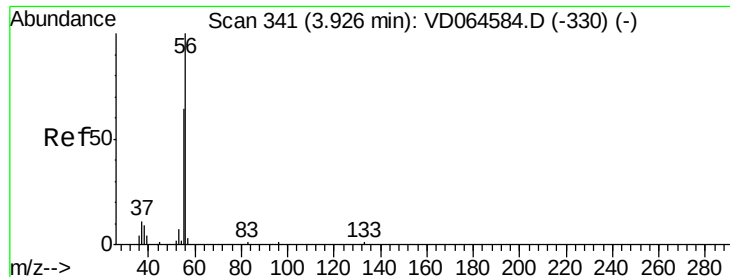


#12

1,1-Dichloroethene
Concen: 50.056 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.5	129.4	194.0
98	66.8	51.4	77.0





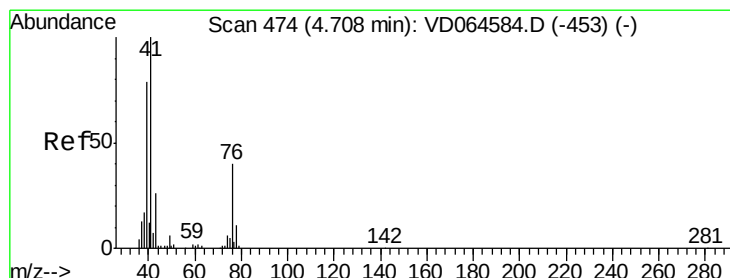
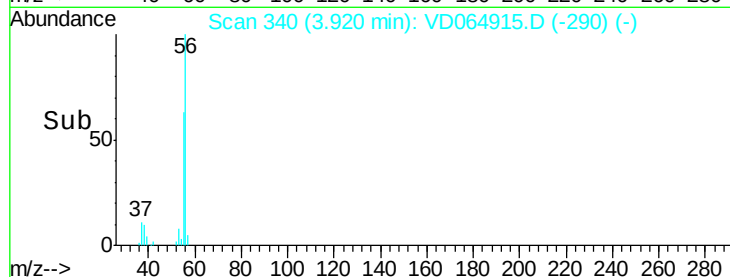
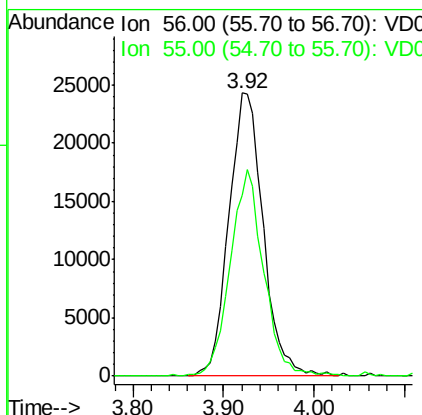
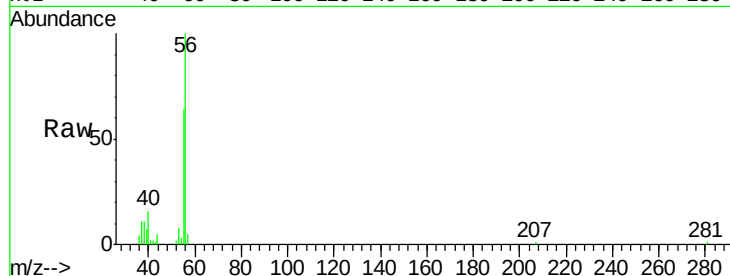
#13
Acrolein
Concen: 223.678 ug/l
RT: 3.92 min Scan# 340
Delta R.T. -0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	71.4	56.7	85.1

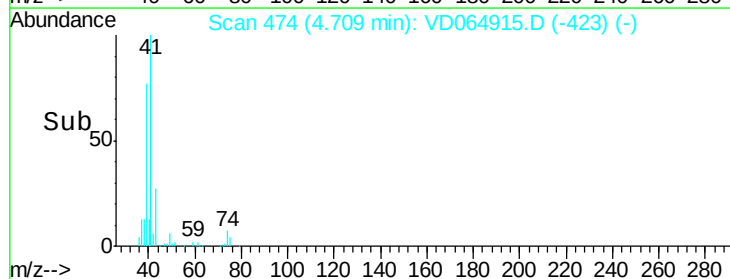
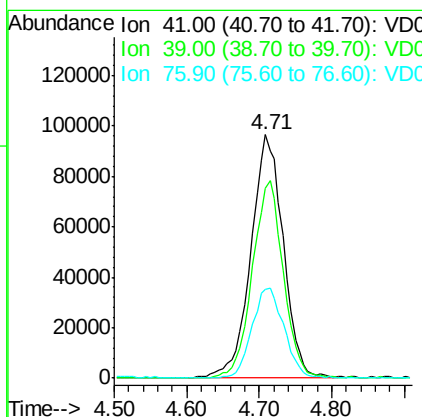
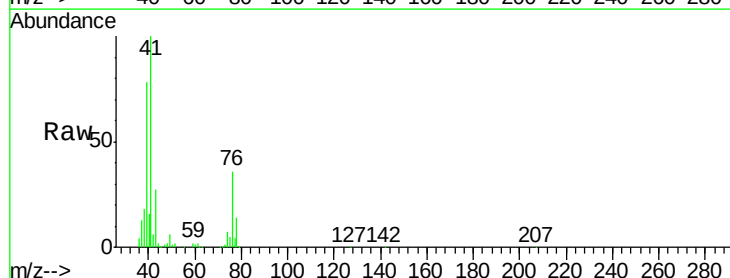
Manual Integrations
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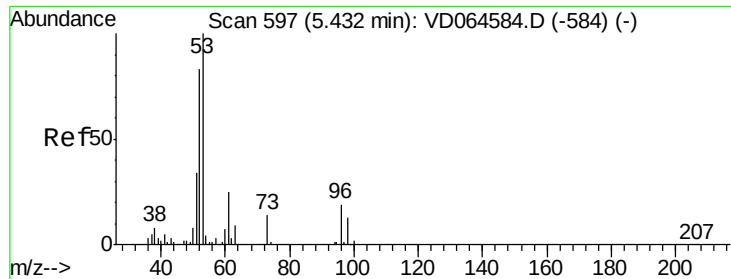
MMDadoda
1/23/2020 11:13:39 AM



#14
Allyl chloride
Concen: 53.899 ug/l
RT: 4.71 min Scan# 474
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	77.9	62.3	93.5
76	76	36.9	29.7	44.5





#15

Acrylonitrile

Concen: 281.109 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

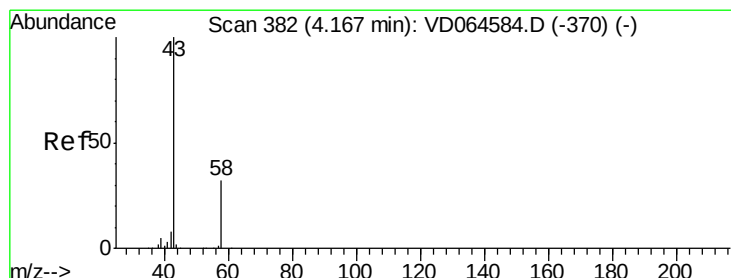
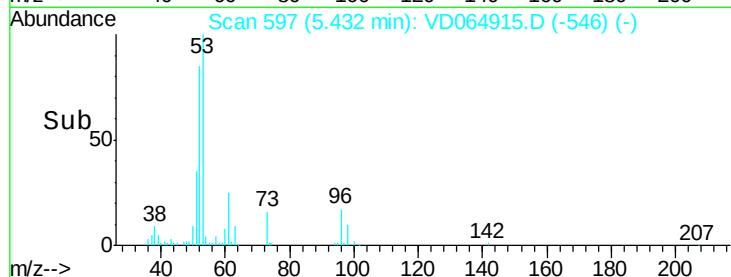
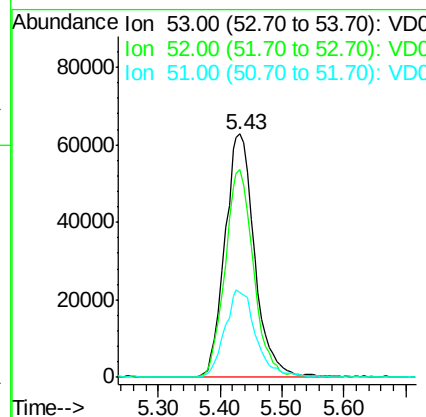
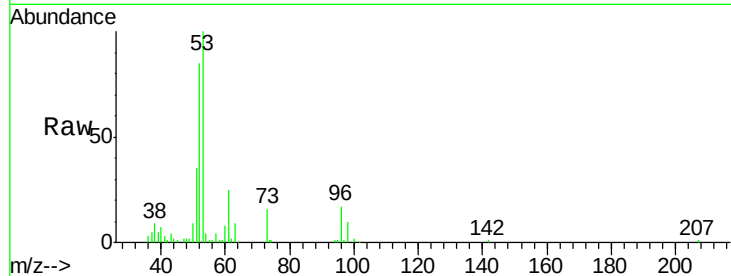
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	210398
Ion Ratio	Lower	Upper	
53	100		
52	81.5	66.2	99.2
51	37.4	30.1	45.1

Manual Integrations
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#16

Acetone

Concen: 344.766 ug/l

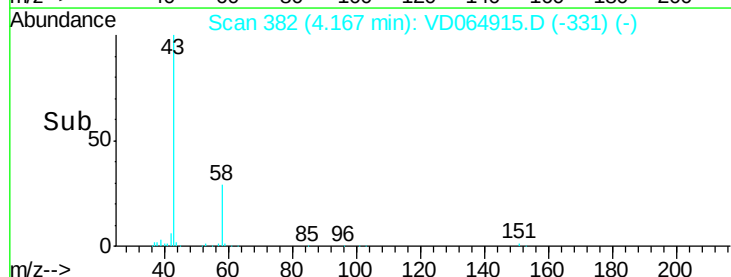
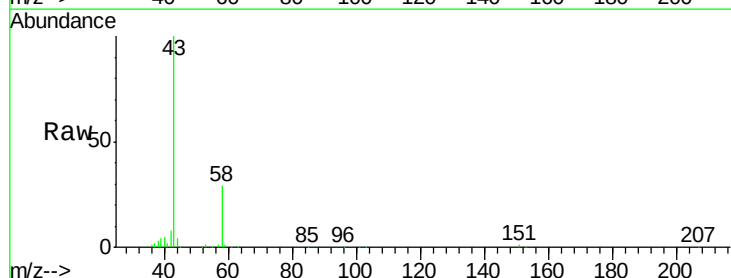
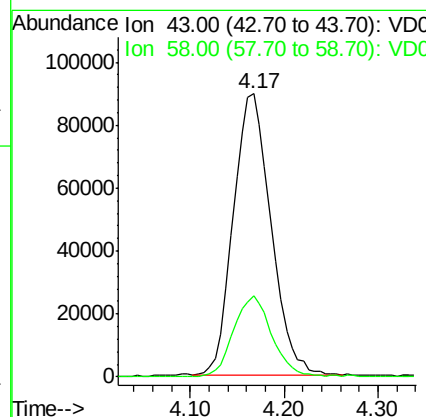
RT: 4.17 min Scan# 382

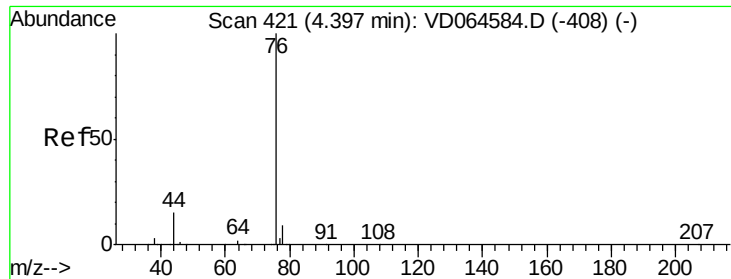
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion:	43	Resp:	248639
Ion Ratio	Lower	Upper	
43	100		
58	28.8	25.8	38.6





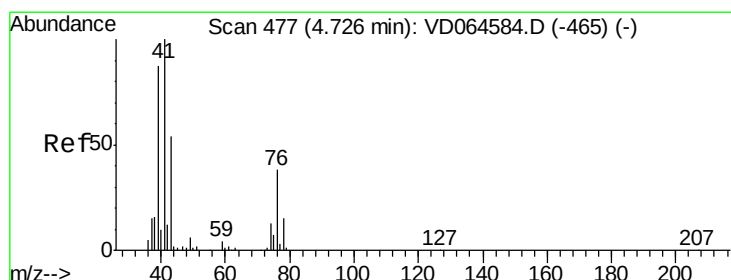
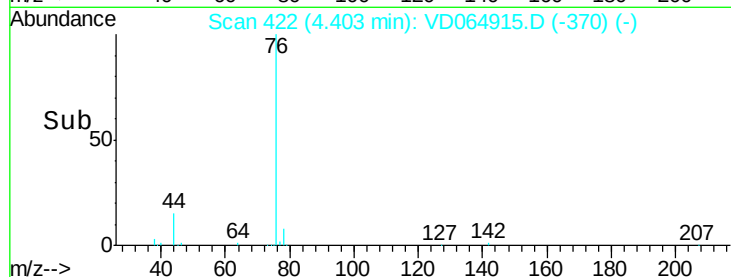
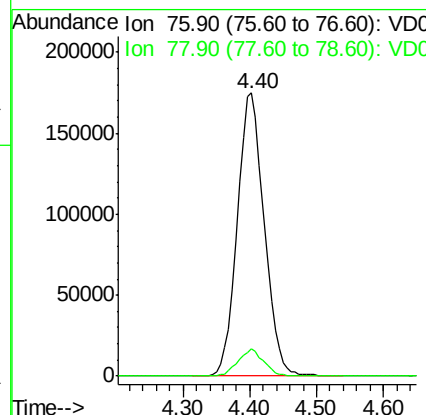
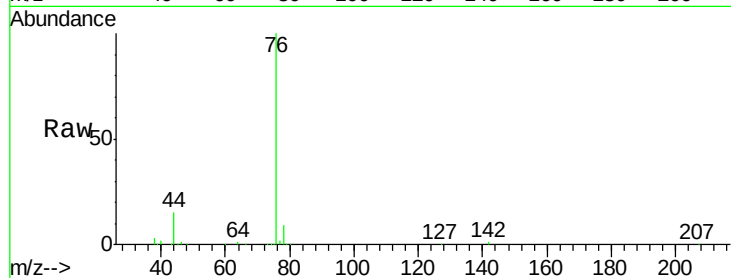
#17
Carbon Disulfide
Concen: 42.648 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.3	10.9

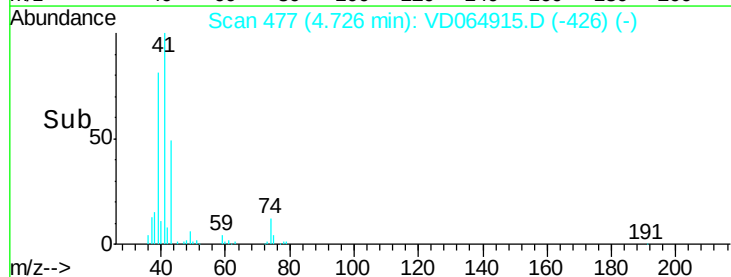
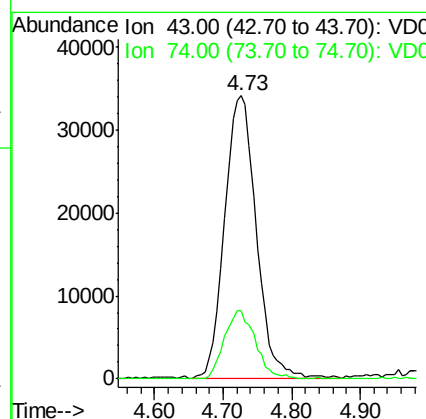
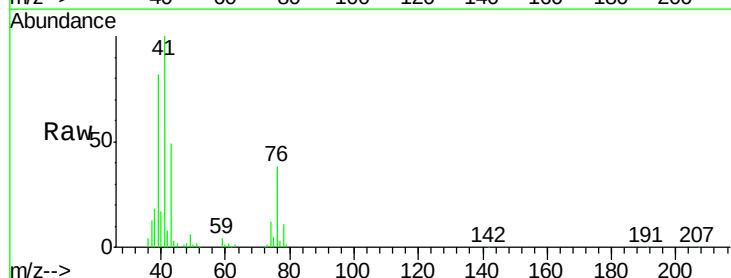
Manual Integrations
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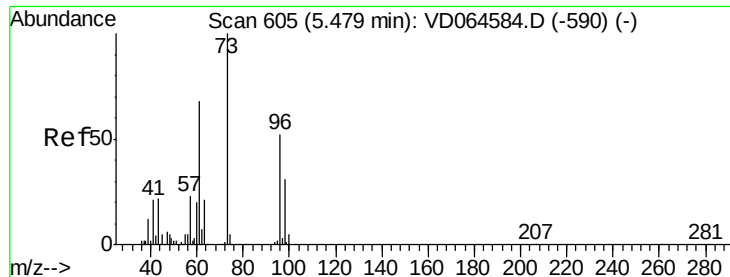
MMDadoda
1/23/2020 11:13:39 AM



#18
Methyl Acetate
Concen: 54.470 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.4	19.2	28.8





#19

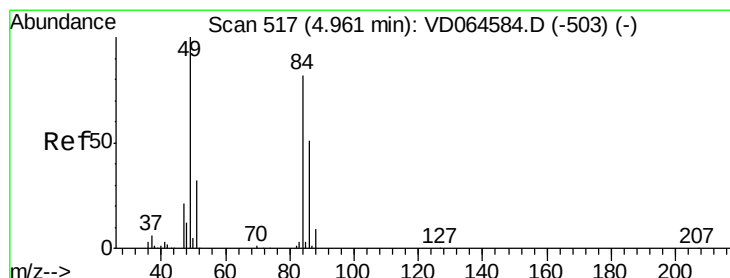
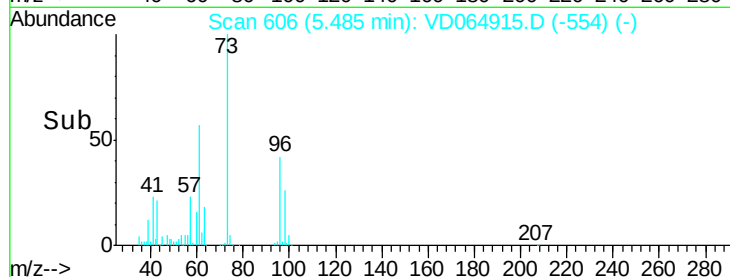
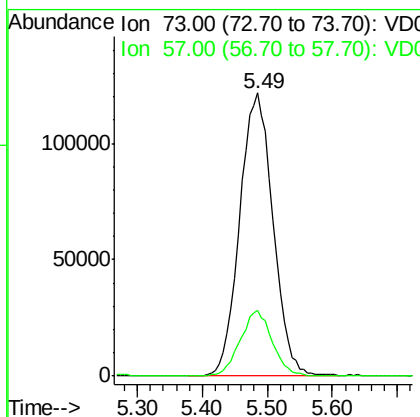
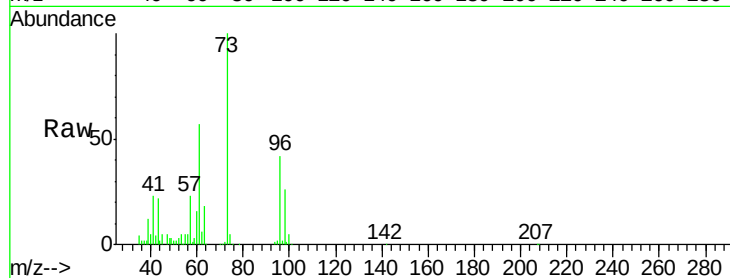
Methyl tert-butyl Ether
 Concen: 54.462 ug/l
 RT: 5.49 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	18.6	27.8

Manual Integrations
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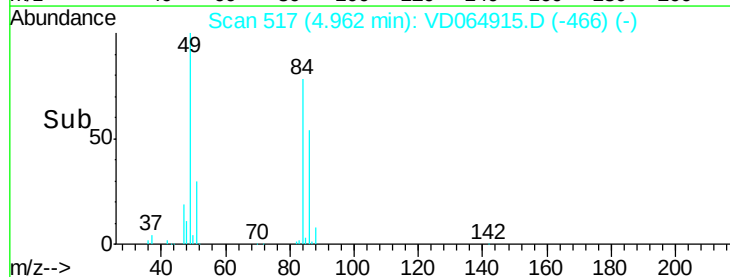
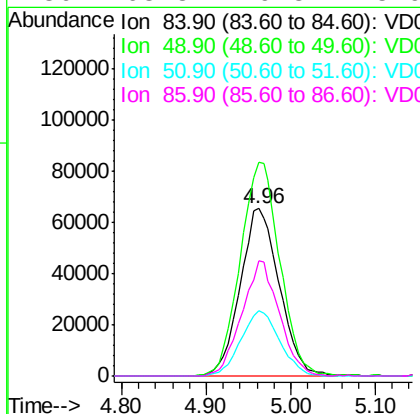
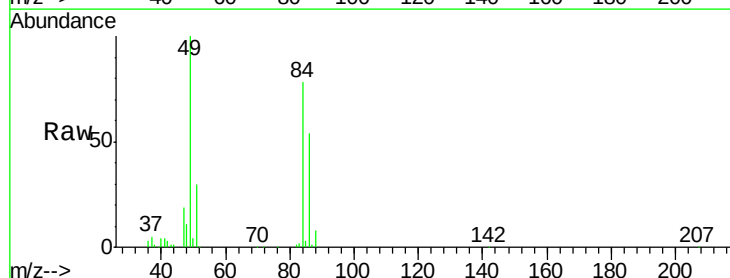
MMDadoda
 1/23/2020 11:13:39 AM

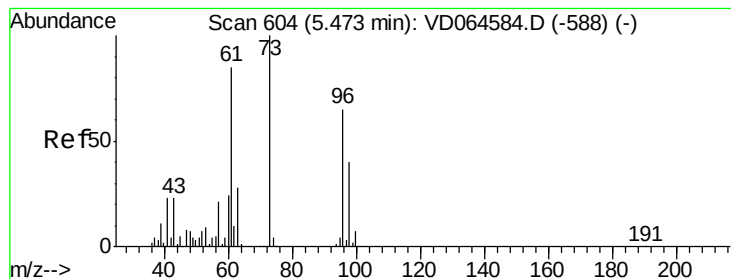


#20

Methylene Chloride
 Concen: 58.237 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.8	97.2	145.8
51	38.9	31.4	47.0
86	68.8	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 51.075 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 207525

Ion Ratio Lower Upper

96 100

61 140.7 104.7 157.1

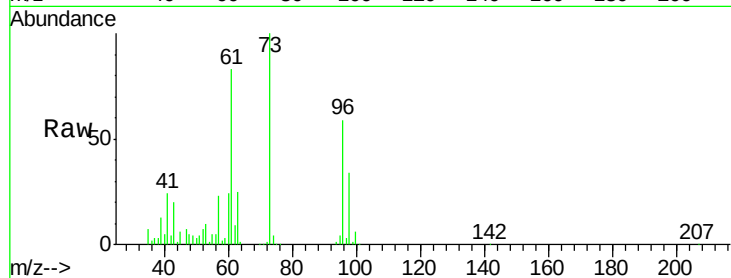
98 57.5 49.4 74.2

Manual Integrations

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MMDadoda

1/23/2020 11:13:39 AM

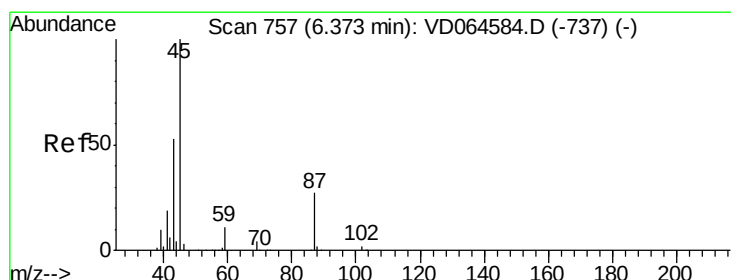
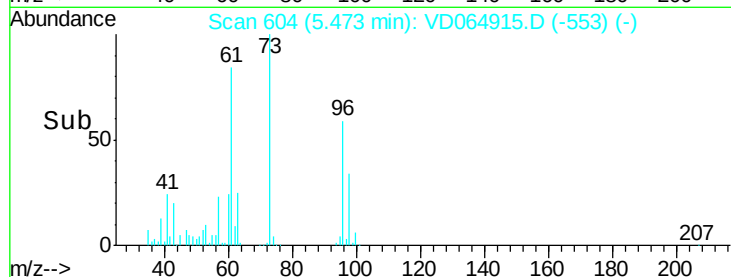
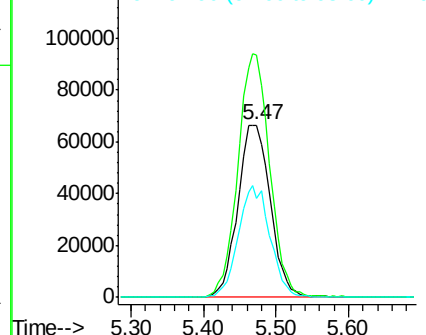


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 55.611 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion: 45 Resp: 617006

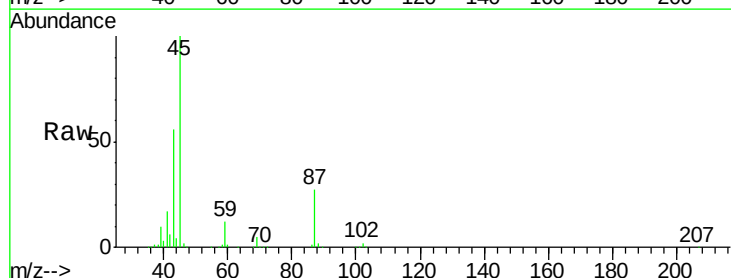
Ion Ratio Lower Upper

45 100

43 55.5 43.2 64.8

87 26.5 21.9 32.9

59 11.8 9.0 13.4



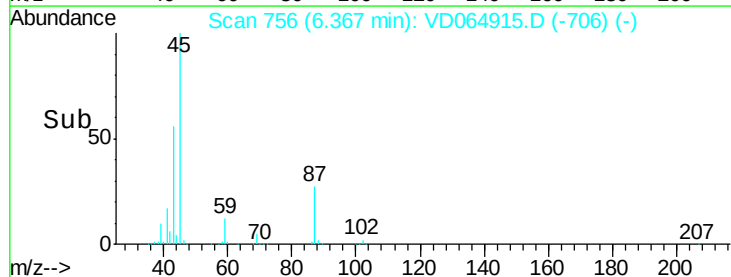
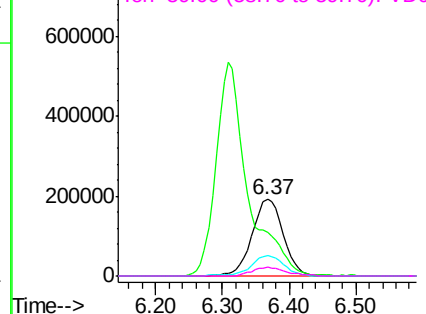
Abundance

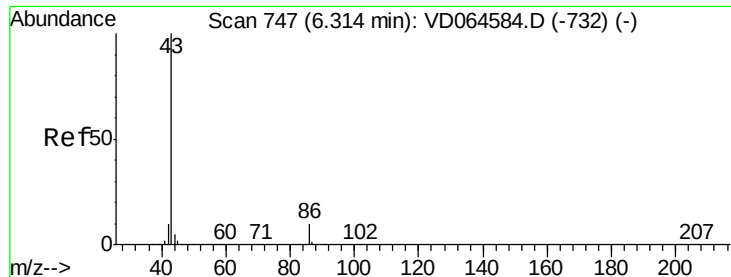
Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 282.463 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1777758

Ion Ratio Lower Upper

43 100

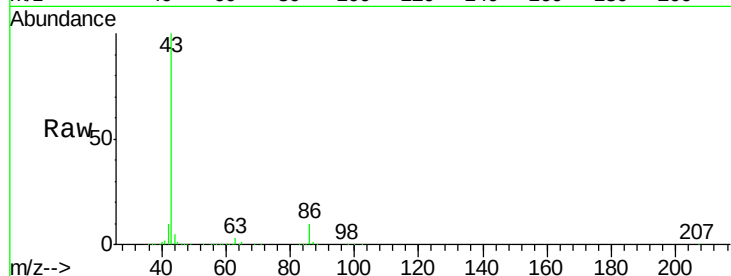
86 9.8 8.3 12.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

600000

500000

400000

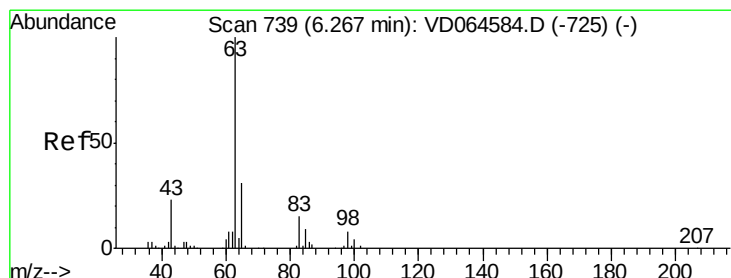
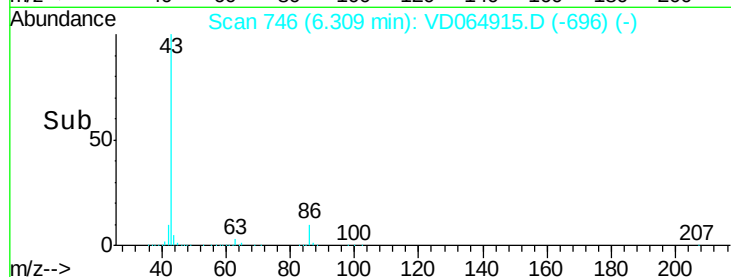
300000

200000

100000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 55.345 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

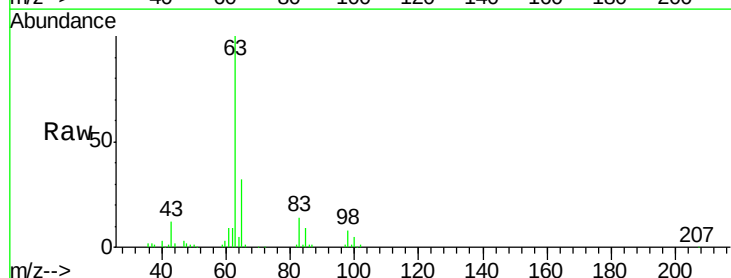
Tgt Ion: 63 Resp: 368638

Ion Ratio Lower Upper

63 100

98 8.2 4.1 12.3

100 5.2 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.26

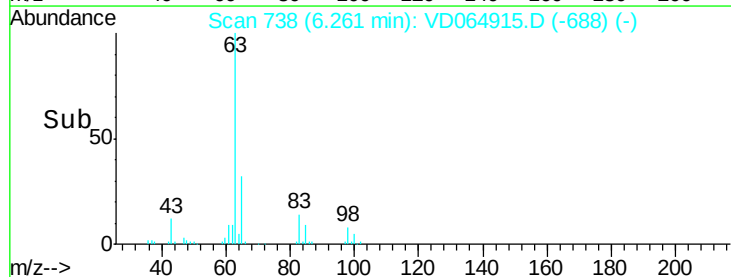
150000

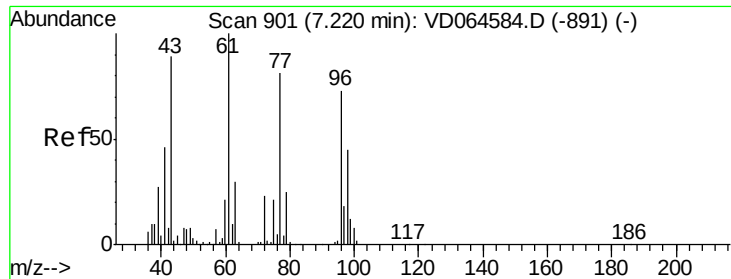
100000

50000

0

Time--> 6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 294.462 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 289433

Ion Ratio Lower Upper

43 100

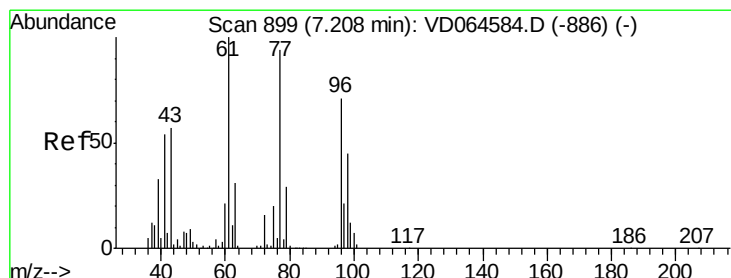
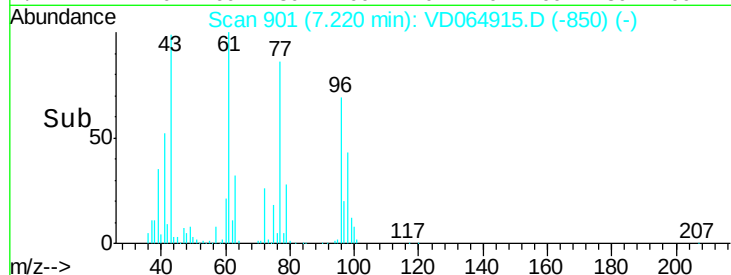
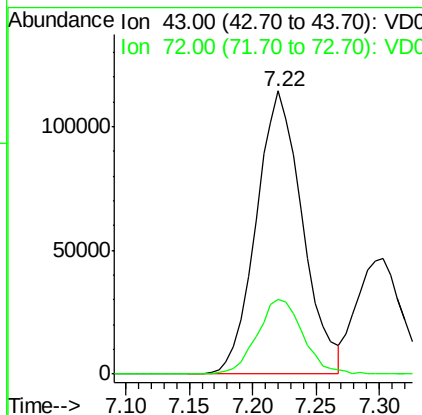
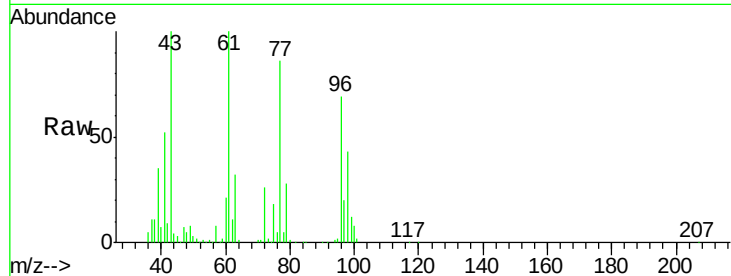
72 26.4 20.7 31.1

Manual Integrations

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MMDadoda

1/23/2020 11:13:39 AM



#26

2,2-Dichloropropane

Concen: 57.033 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD064915.D

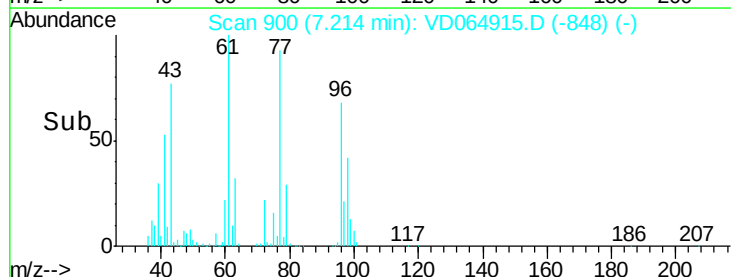
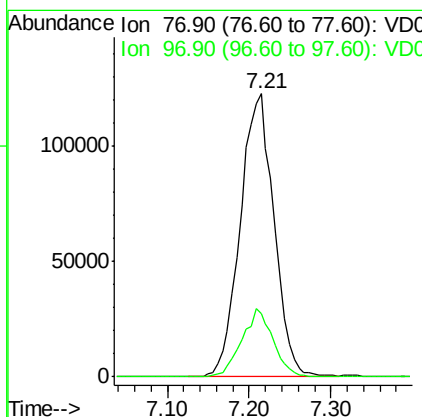
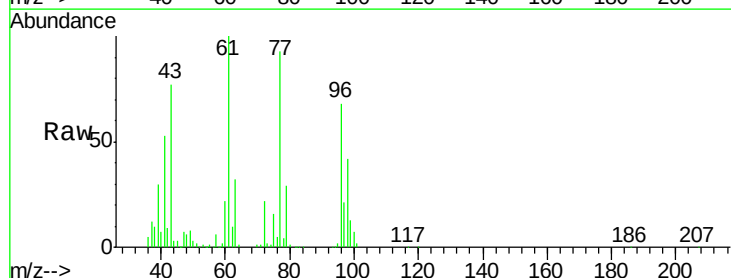
Acq: 22 Jan 2020 14:01

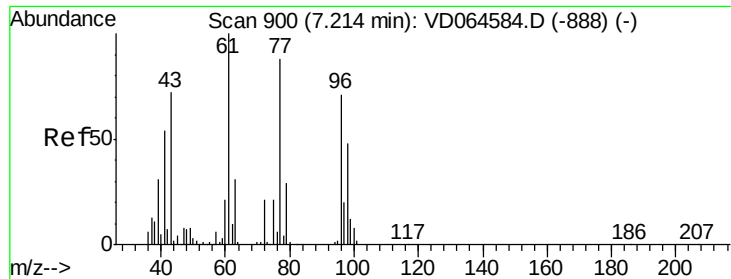
Tgt Ion: 77 Resp: 353195

Ion Ratio Lower Upper

77 100

97 22.1 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 52.835 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

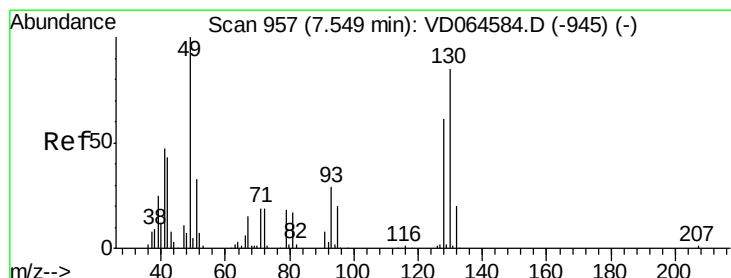
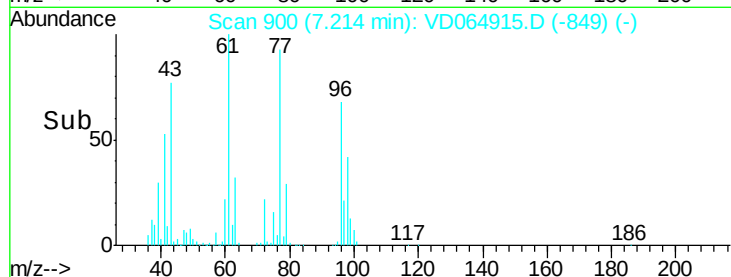
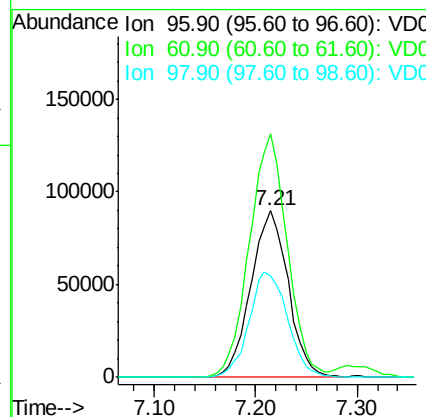
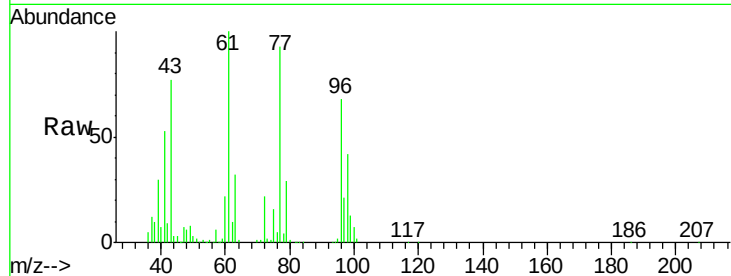
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	231686		
61	147.9	0.0	282.6	
98	65.1	0.0	130.8	

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#28

Bromochloromethane

Concen: 54.810 ug/l

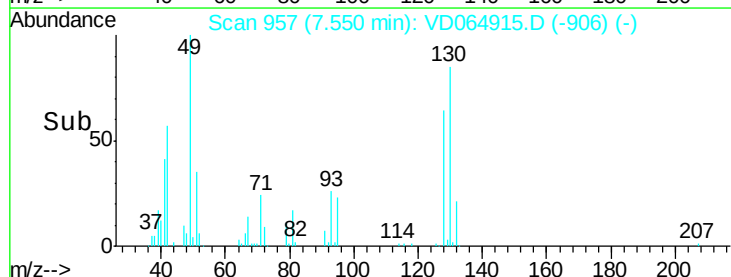
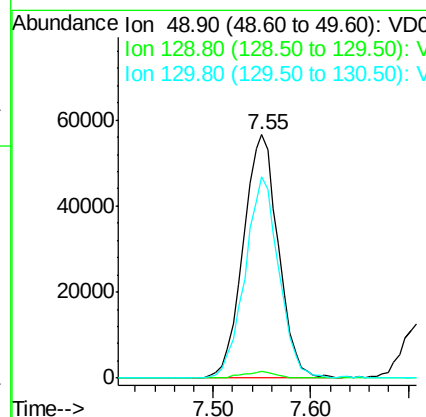
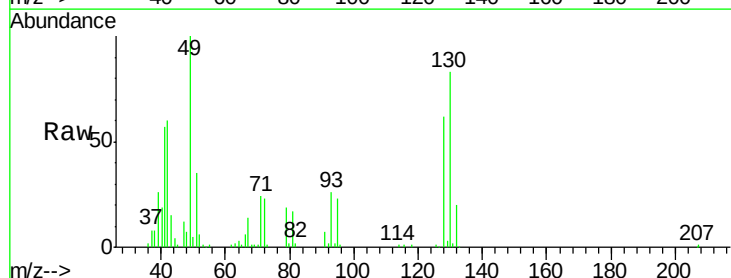
RT: 7.55 min Scan# 957

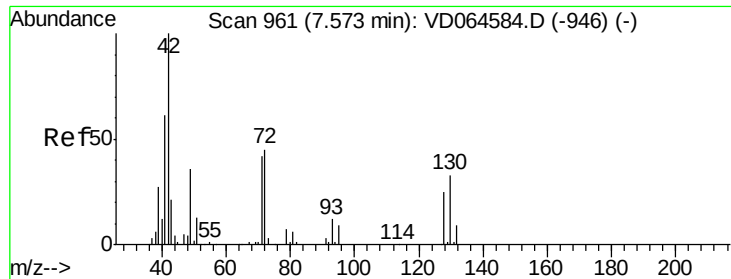
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	141915		
129	2.5	0.0	4.8	
130	79.8	65.0	97.6	





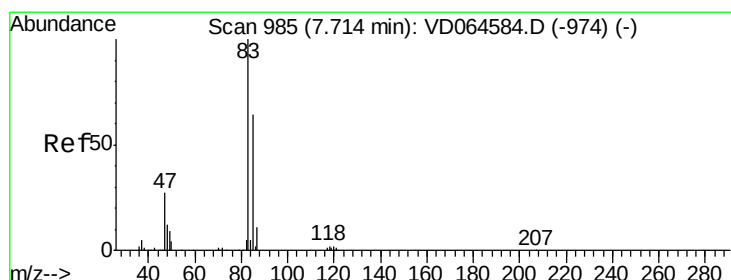
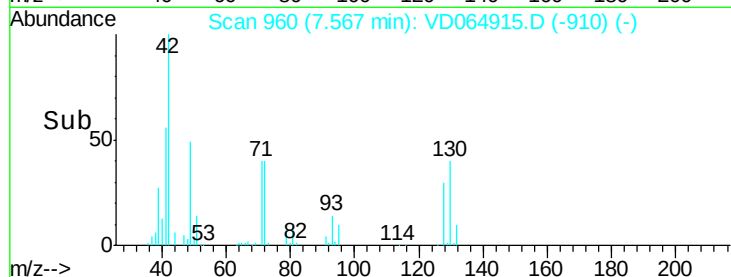
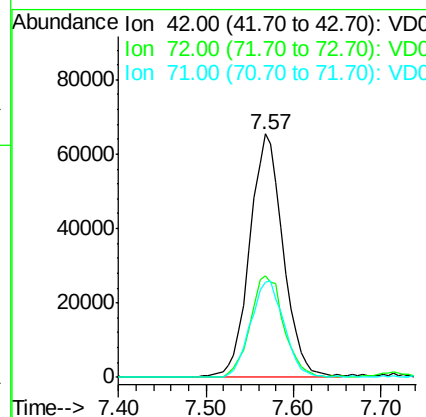
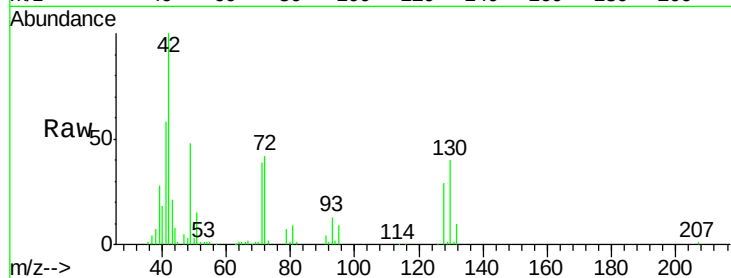
#29
Tetrahydrofuran
Concen: 278.211 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	35.0	52.4
71	39.7	32.9	49.3

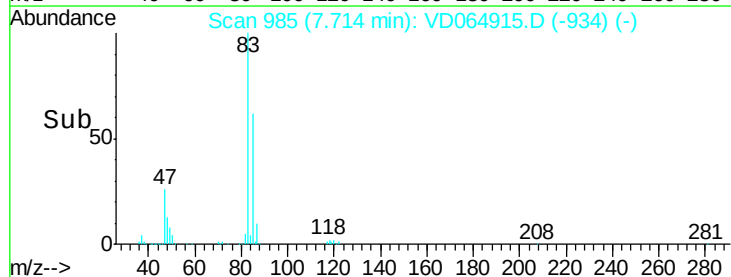
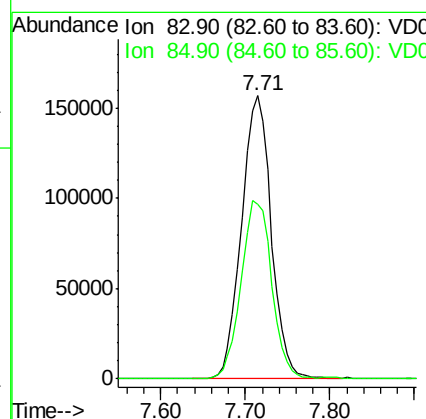
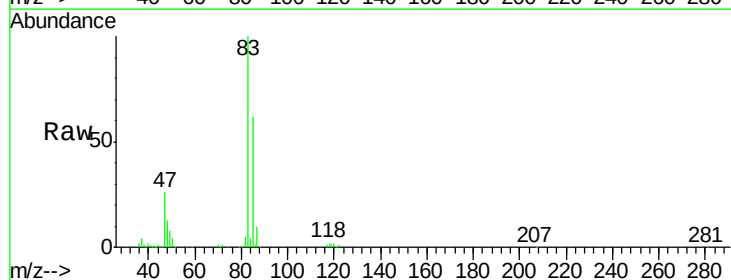
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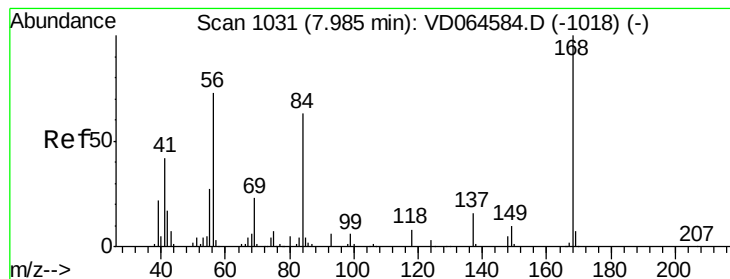
MMDadoda
1/23/2020 11:13:39 AM



#30
Chloroform
Concen: 54.658 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7





#31

Cyclohexane

Concen: 47.889 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

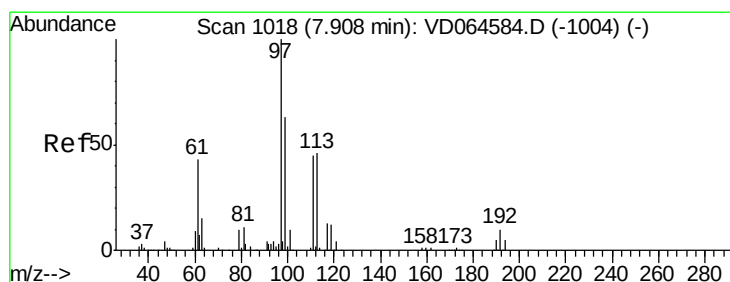
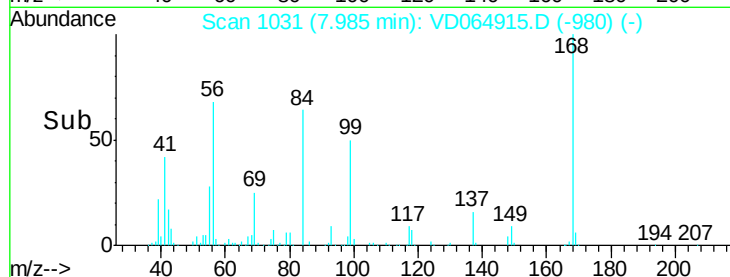
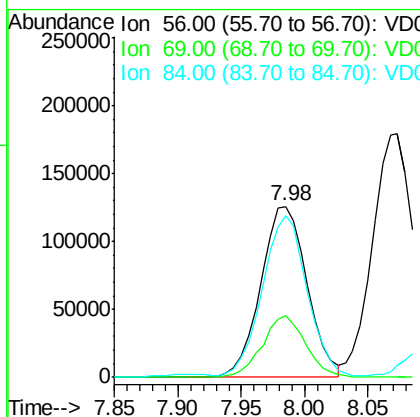
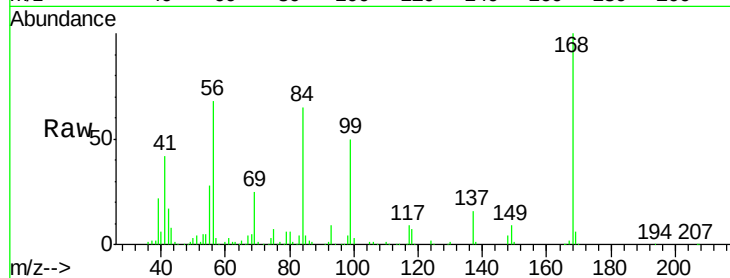
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	319293
Ion	Ratio	Lower	Upper
56	100		
69	36.0	24.7	37.1
84	93.0	69.4	104.2

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#32

1,1,1-Trichloroethane

Concen: 55.038 ug/l

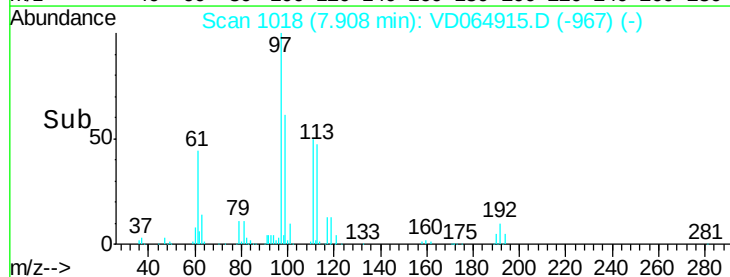
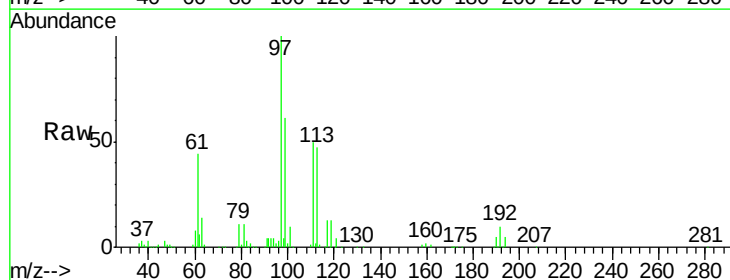
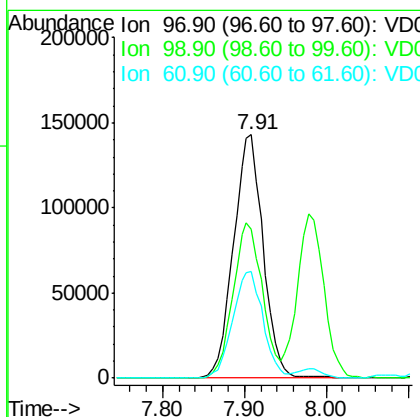
RT: 7.91 min Scan# 1018

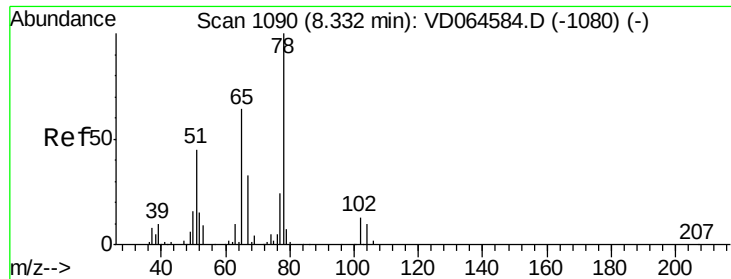
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion:	97	Resp:	361255
Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.0	76.6
61	44.6	35.4	53.0





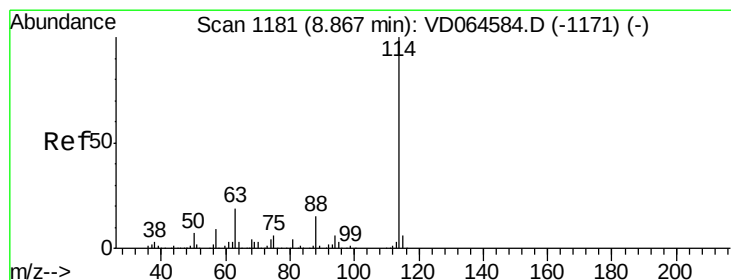
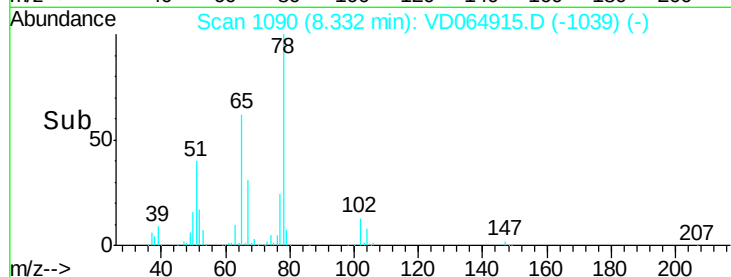
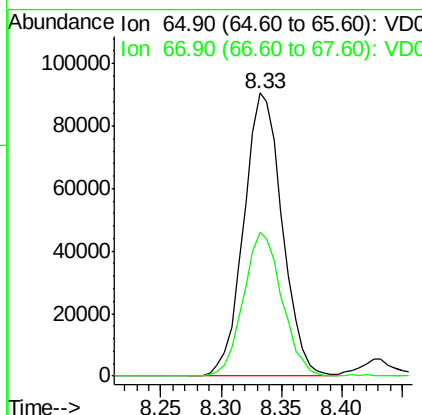
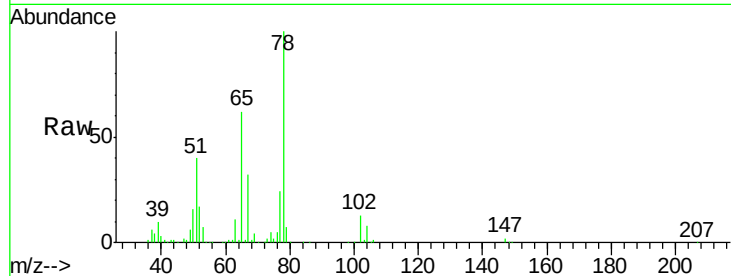
#33
 1,2-Dichloroethane-d4
 Concen: 56.107 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	200630		
67	51.1	0.0	106.2	

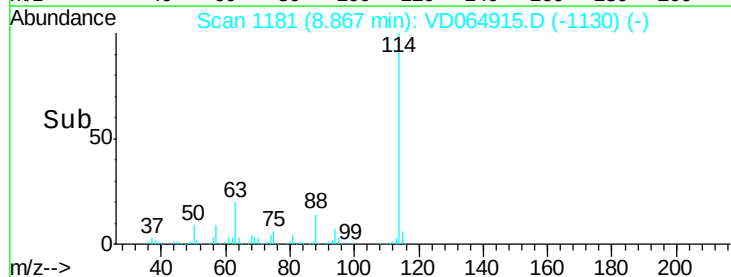
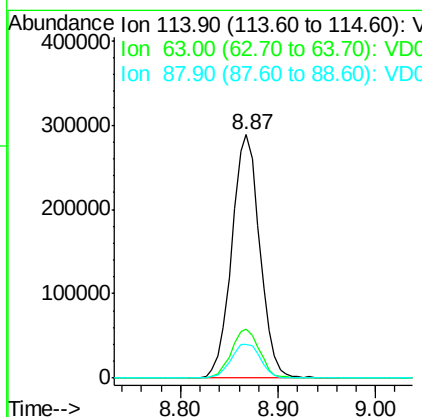
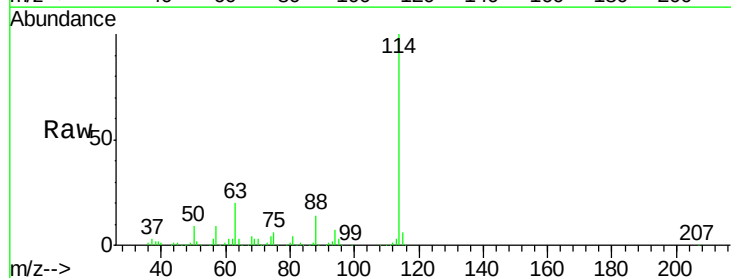
Manual Integrations
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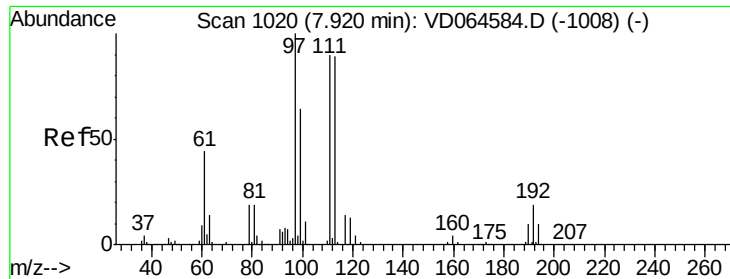
MMDadoda
 1/23/2020 11:13:39 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	575742		
63	20.1	0.0	38.0	
88	14.0	0.0	29.2	





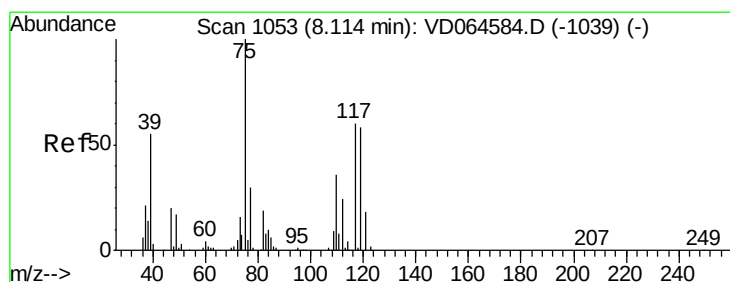
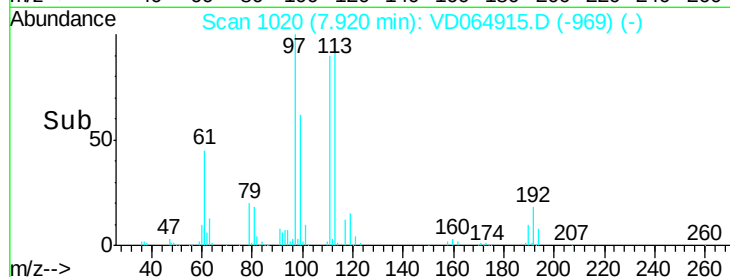
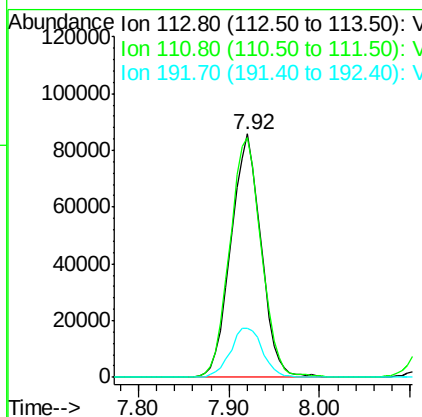
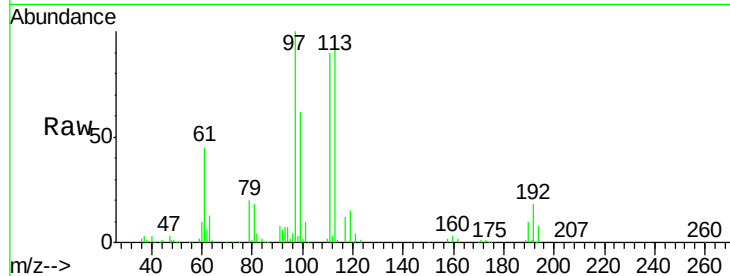
#35
 Dibromofluoromethane
 Concen: 56.191 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	198482		
111	103.1	80.6	121.0	
192	21.7	17.9	26.9	

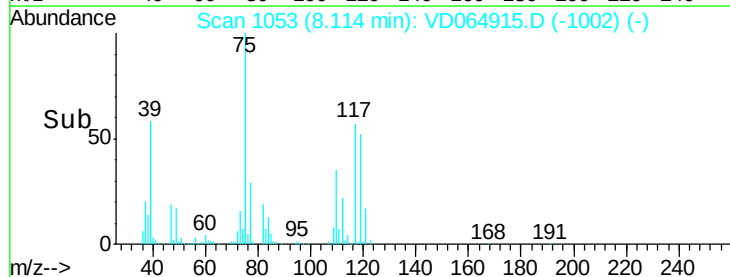
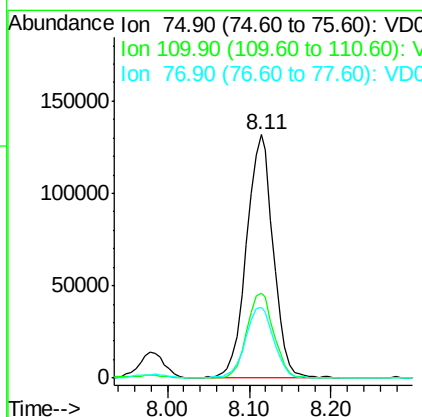
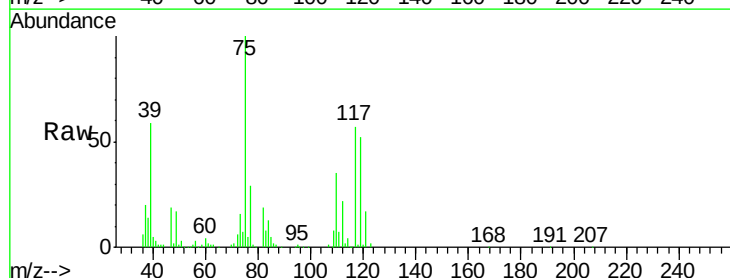
Manual Integrations
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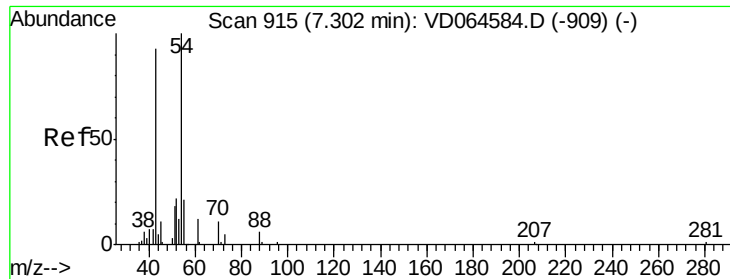
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#36
 1,1-Dichloropropene
 Concen: 54.076 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	299664		
110	35.1	18.1	54.1	
77	30.9	24.2	36.4	





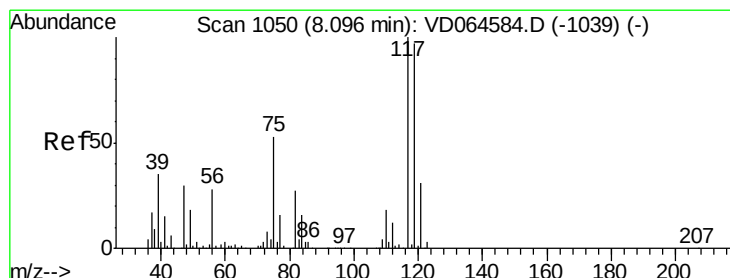
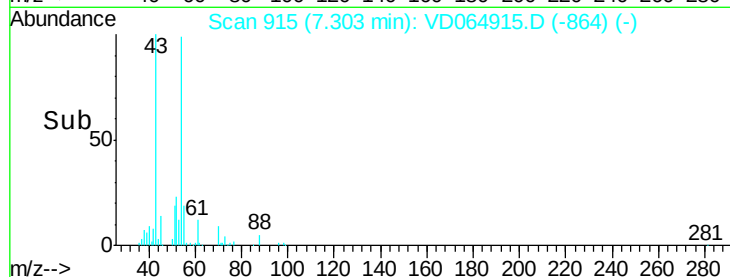
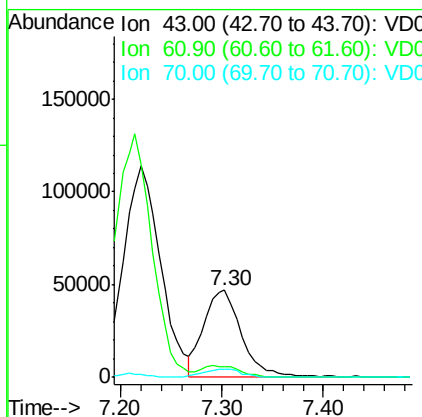
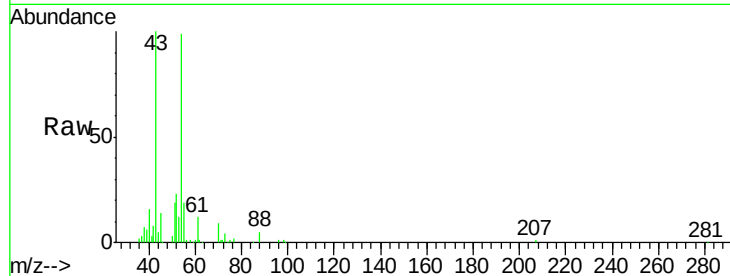
#37
Ethyl Acetate
Concen: 55.244 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.3	15.5
70	9.4	7.6	11.4

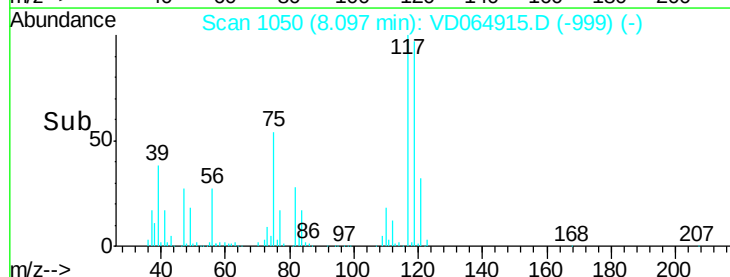
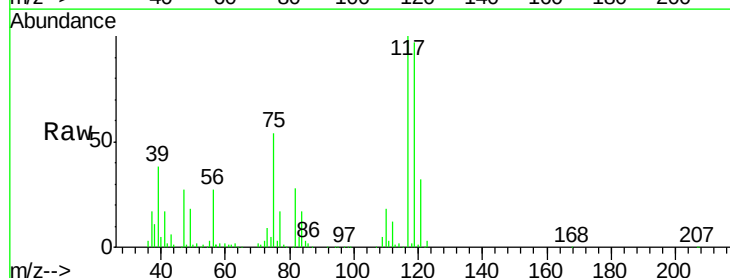
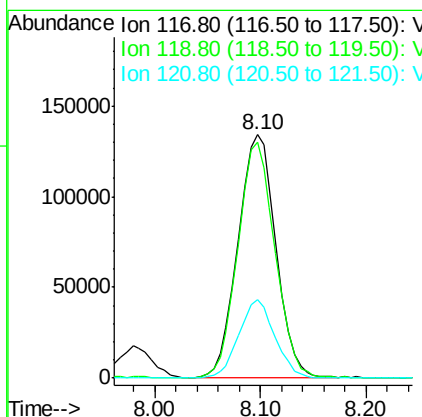
Manual Integrations
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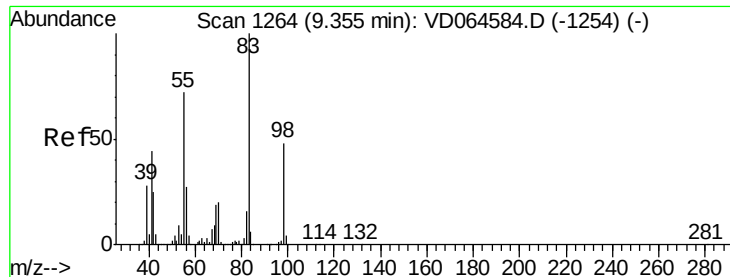
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1/23/2020 11:13:39 AM



#38
Carbon Tetrachloride
Concen: 56.587 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.3	115.9
121	32.1	25.0	37.6





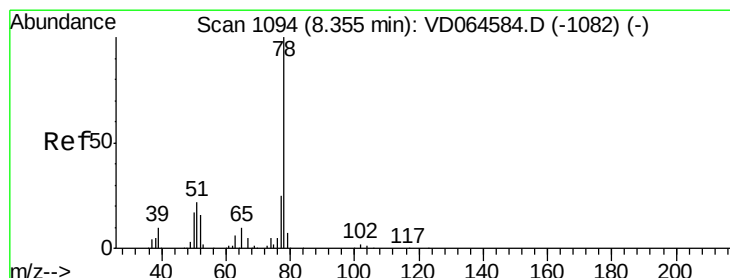
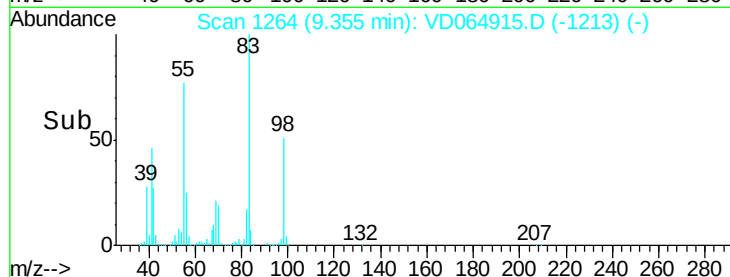
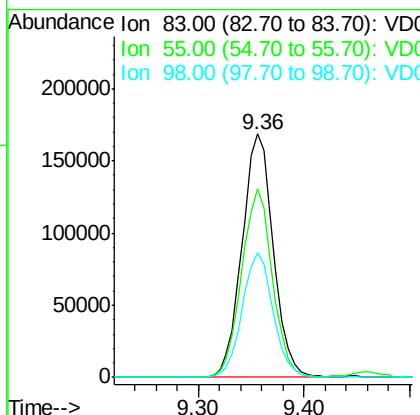
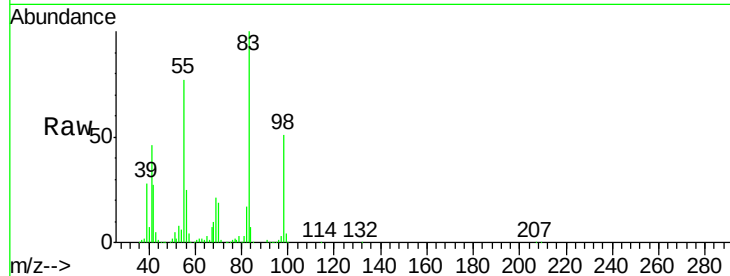
#39
Methylvlcyclohexane
Concen: 51.721 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.5	57.8	86.6
98	51.3	38.7	58.1

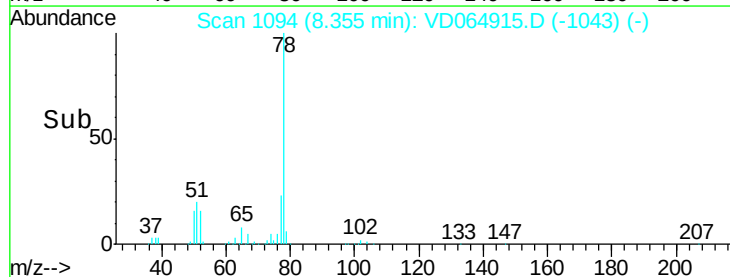
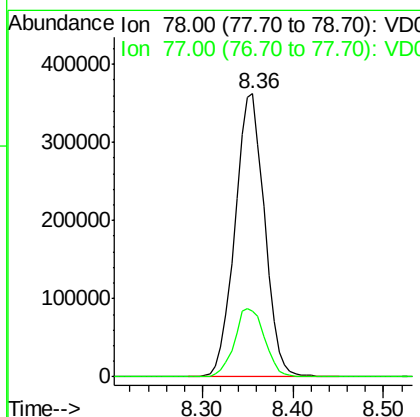
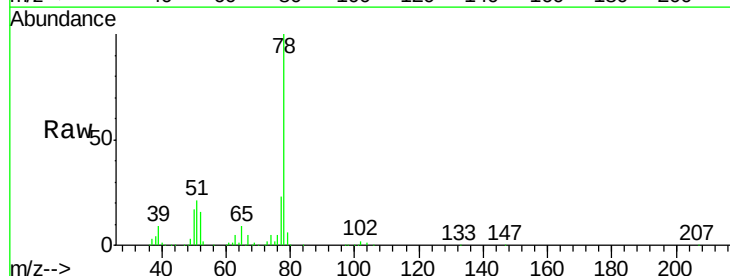
Manual Integrations
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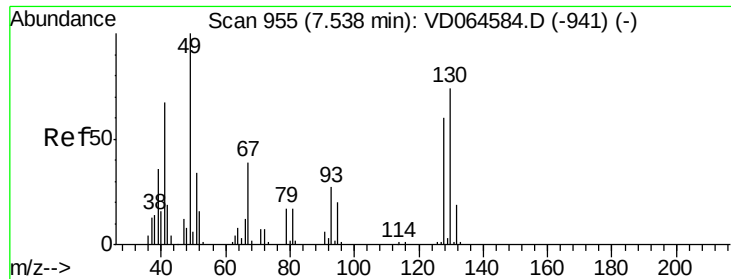
MMDadoda
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#40
Benzene
Concen: 54.322 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.9	29.9





#41

Methacrylonitrile

Concen: 59.332 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 74942

Ion Ratio Lower Upper

41 100

39 54.6 46.7 70.1

67 68.0 52.5 78.7

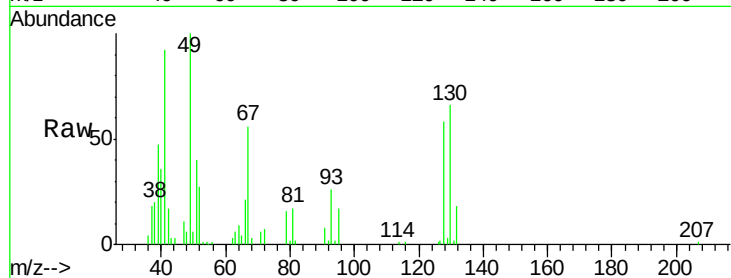
52 29.9 24.1 36.1

Manual Integrations

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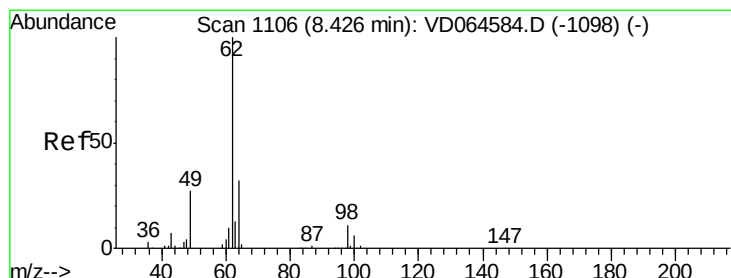
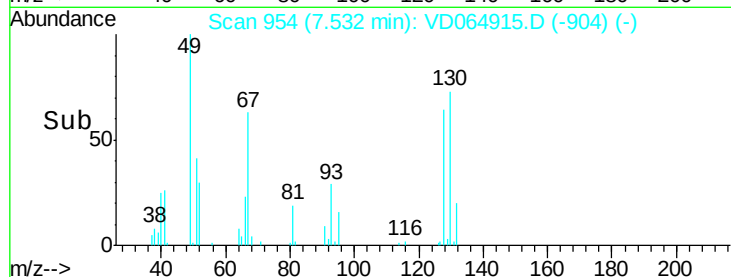
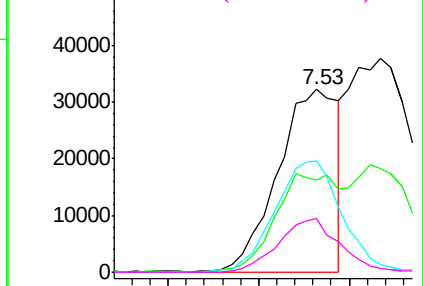


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 55.970 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064915.D

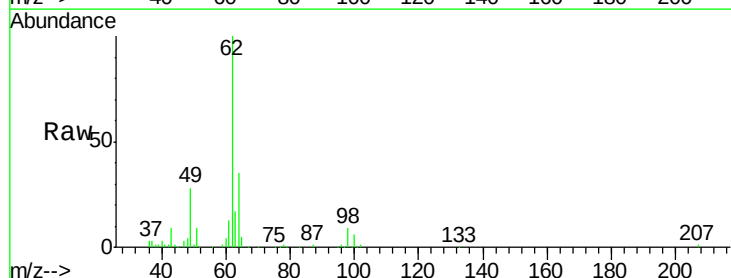
Acq: 22 Jan 2020 14:01

Tgt Ion: 62 Resp: 244676

Ion Ratio Lower Upper

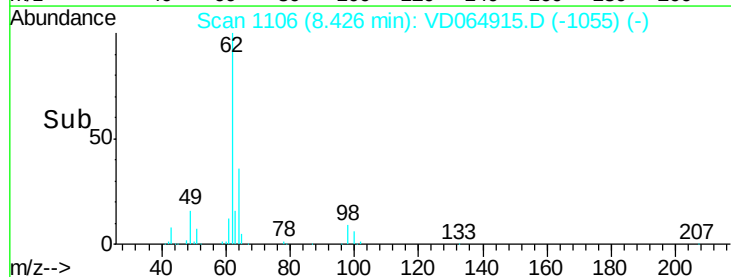
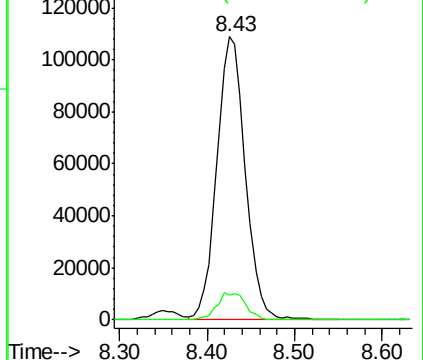
62 100

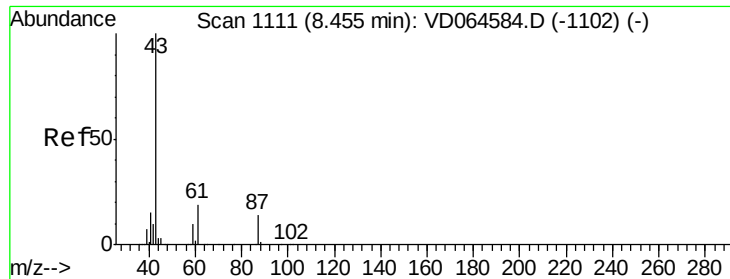
98 9.8 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 55.597 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

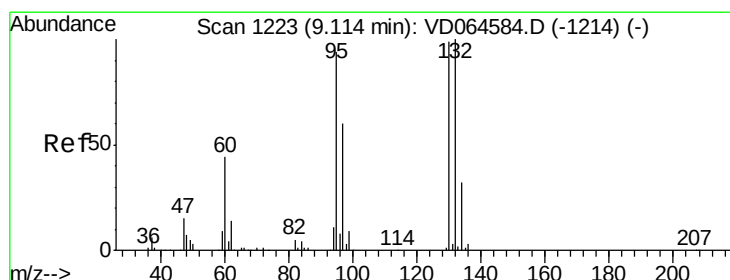
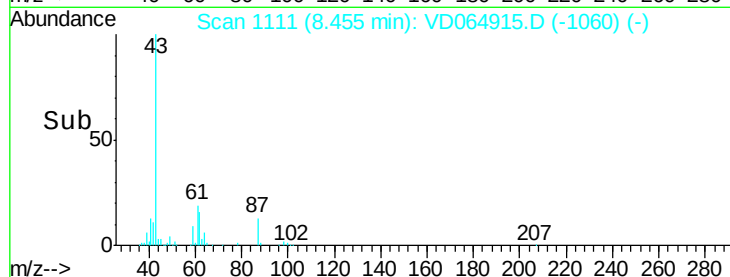
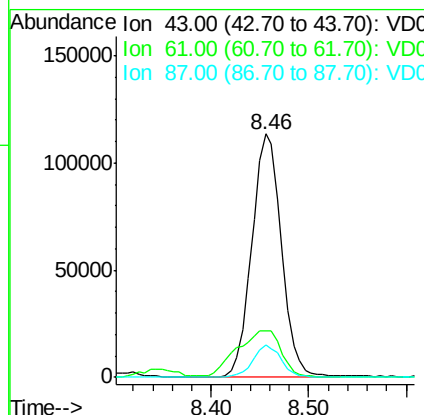
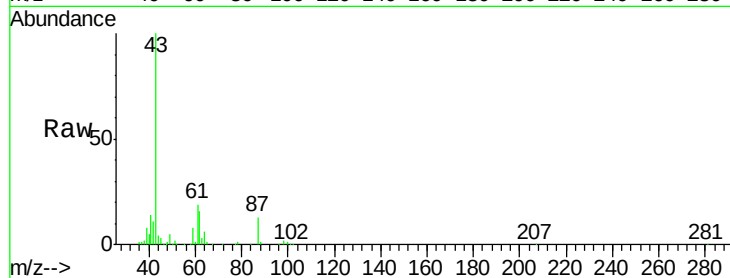
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	240906
Ion	Ratio	Lower	Upper
43	100		
61	28.9	23.7	35.5
87	12.5	10.5	15.7

Manual Integrations
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#44

Trichloroethene

Concen: 52.448 ug/l

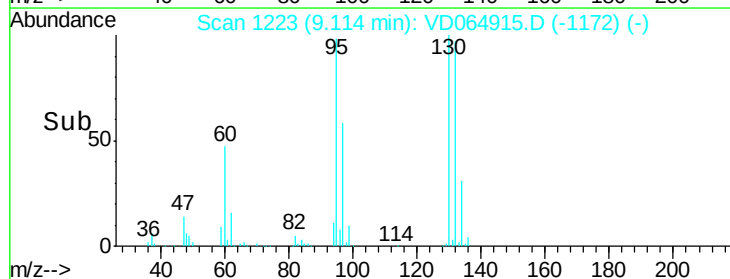
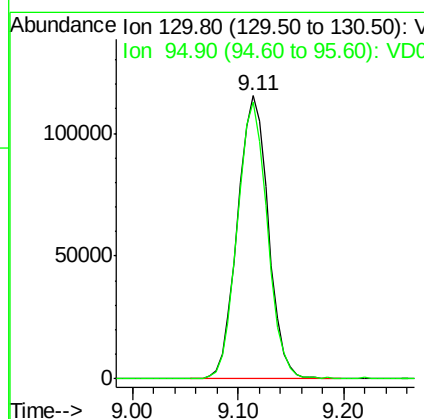
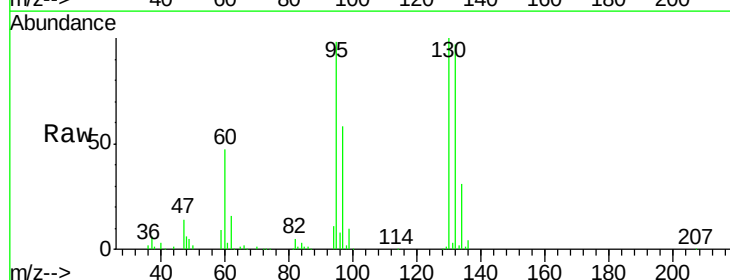
RT: 9.11 min Scan# 1223

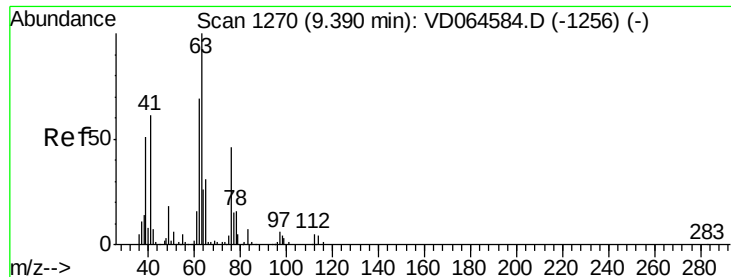
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion:	130	Resp:	233081
Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	190.2





#45

1,2-Dichloropropane

Concen: 56.657 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 204641

Ion Ratio Lower Upper

63 100

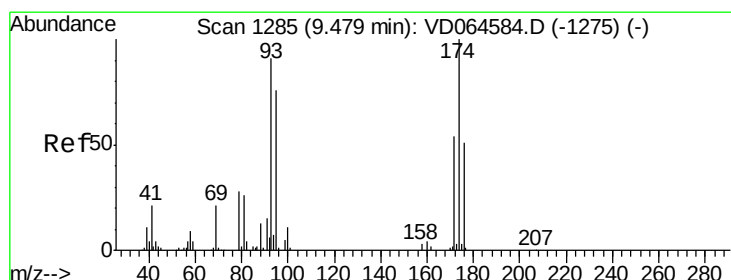
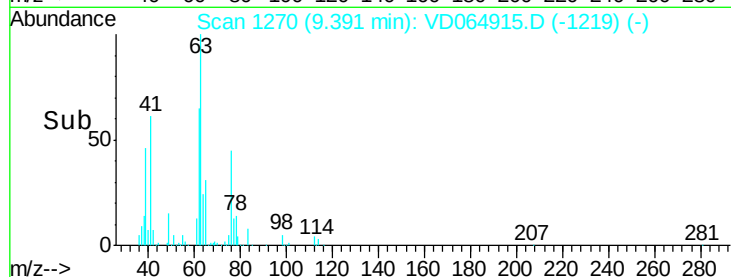
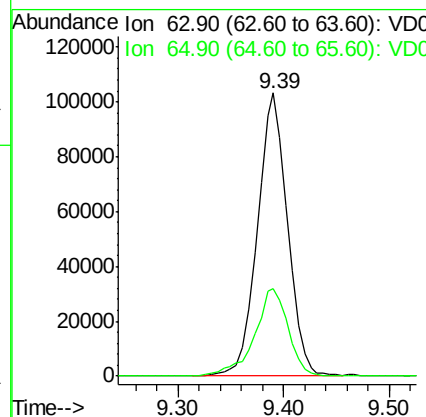
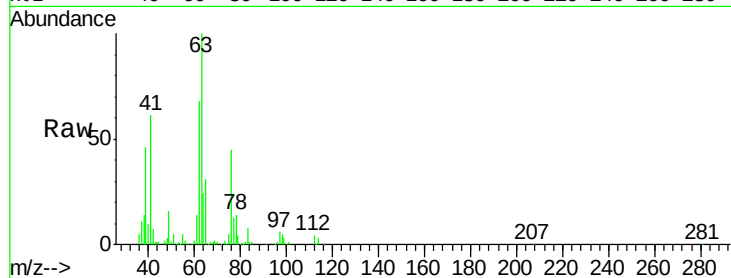
65 31.0 25.2 37.8

Manual Integrations

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MMDadoda

1/23/2020 11:13:39 AM



#46

Dibromomethane

Concen: 54.278 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

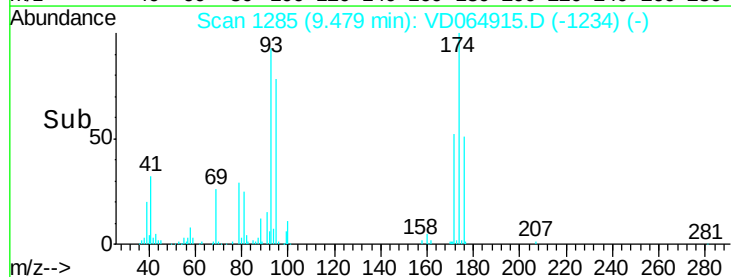
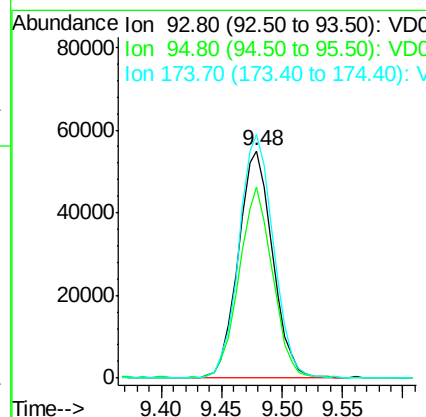
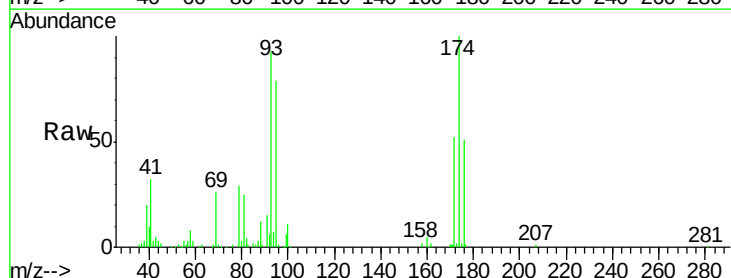
Tgt Ion: 93 Resp: 109304

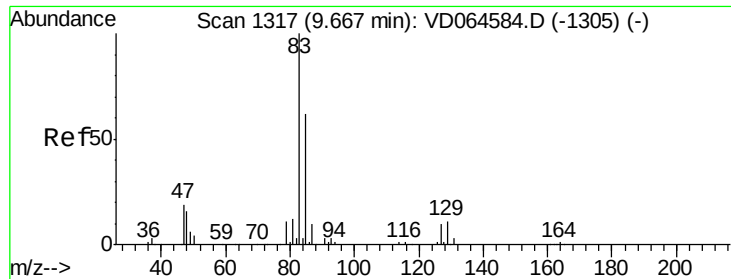
Ion Ratio Lower Upper

93 100

95 82.4 64.6 97.0

174 107.4 88.1 132.1





#47

Bromodichloromethane

Concen: 55.813 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

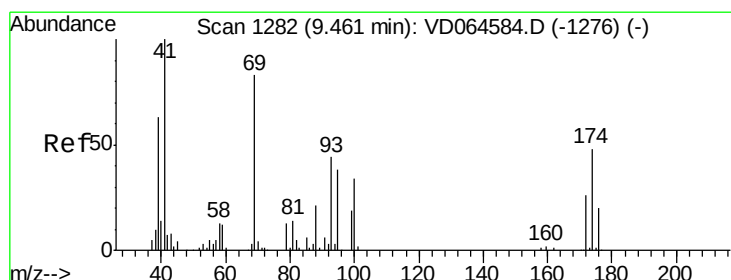
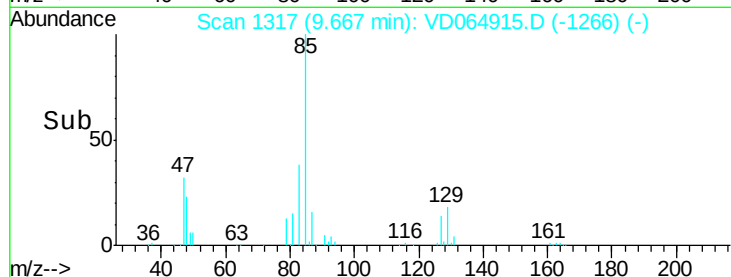
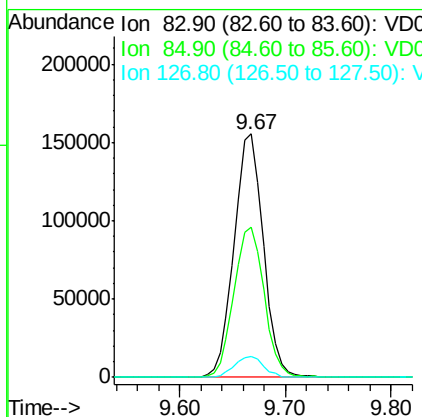
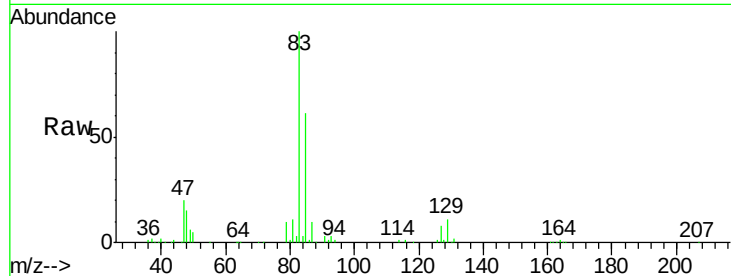
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	299079
Ion	Ratio	Lower	Upper
83	100		
85	61.4	49.5	74.3
127	8.5	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 53.942 ug/l

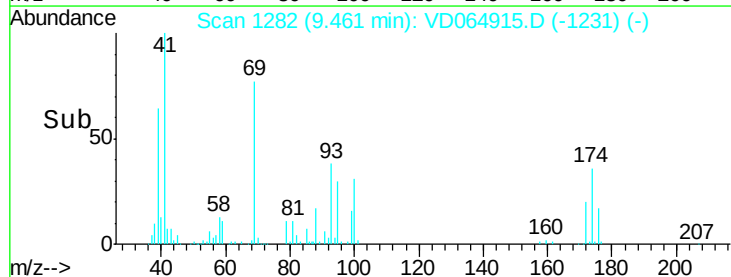
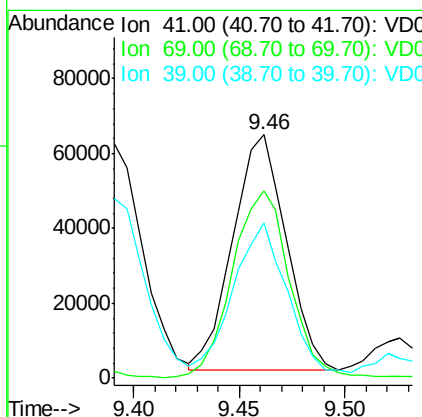
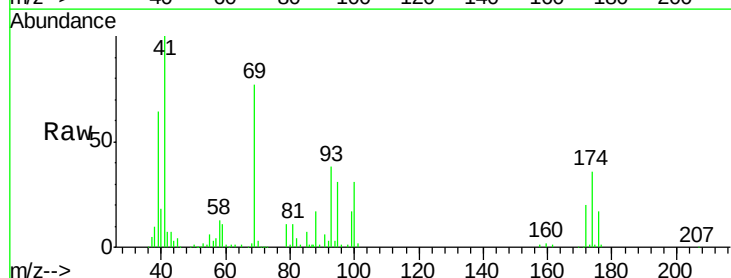
RT: 9.46 min Scan# 1282

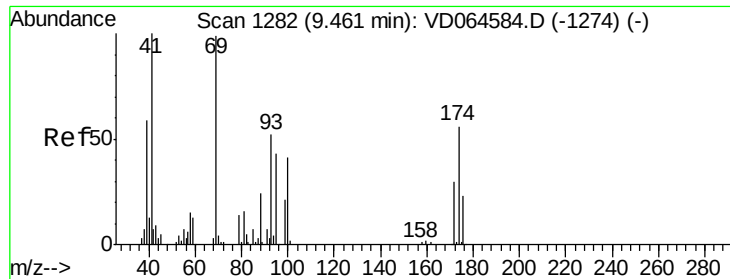
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion:	41	Resp:	110057
Ion	Ratio	Lower	Upper
41	100		
69	86.4	63.0	94.6
39	63.4	47.4	71.2





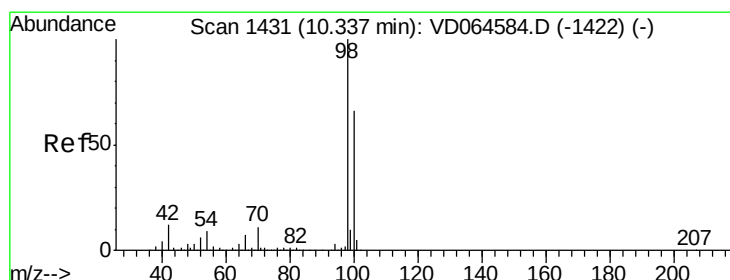
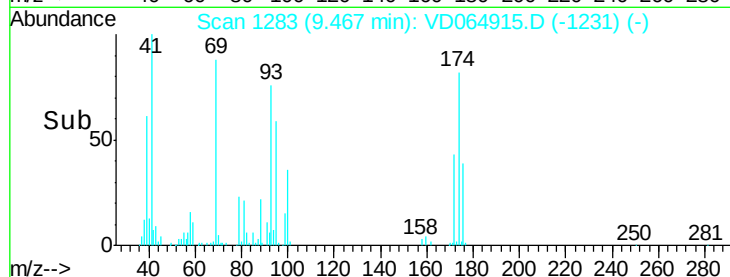
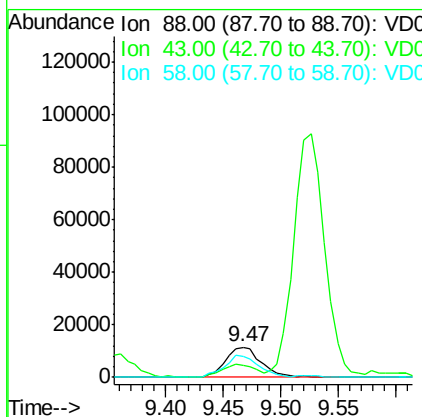
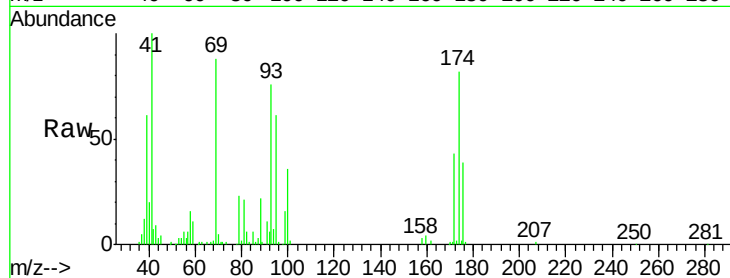
#49
1,4-Dioxane
Concen: 1068.293 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	24806
Ion	Ratio	Lower	Upper
88	100		
43	41.3	27.7	41.5
58	68.2	53.8	80.6

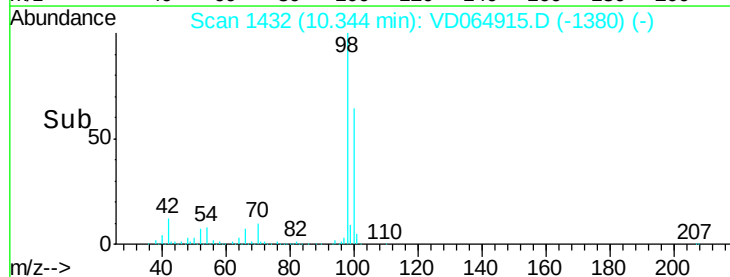
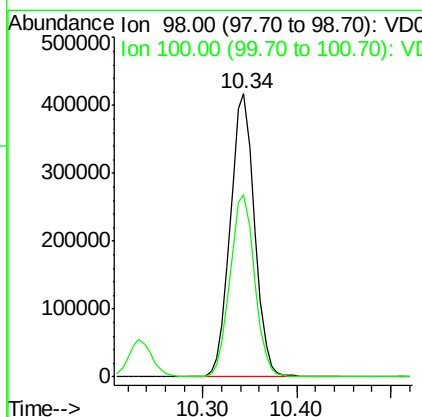
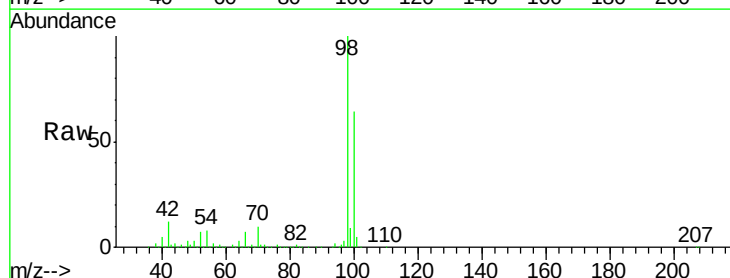
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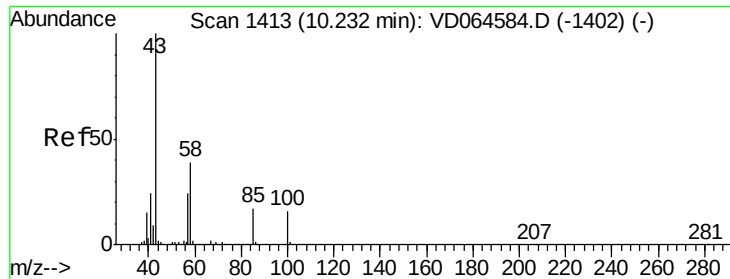
MMDadoda
1/23/2020 11:13:39 AM



#50
Toluene-d8
Concen: 55.443 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	98	Resp	750042
Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.7	77.5





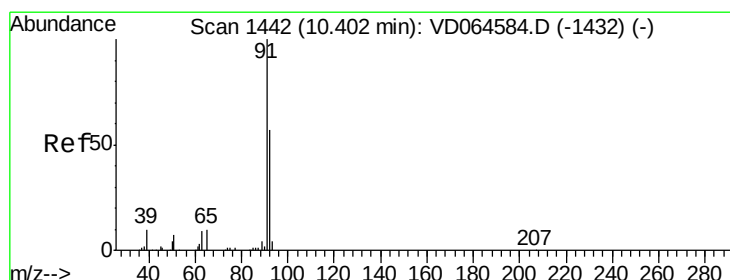
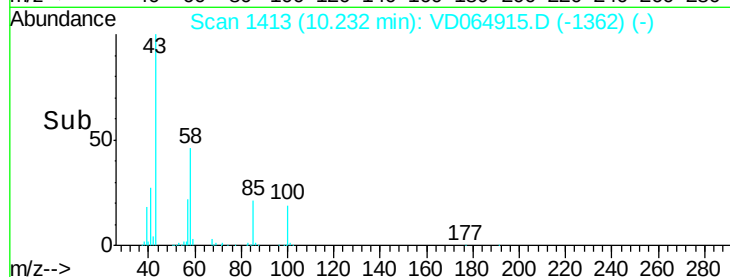
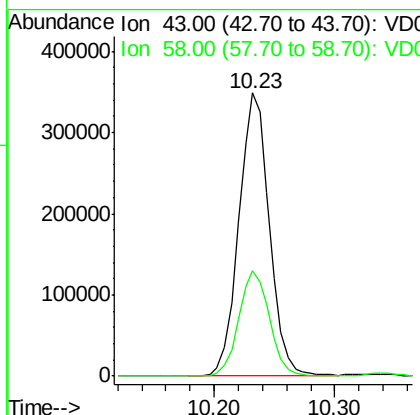
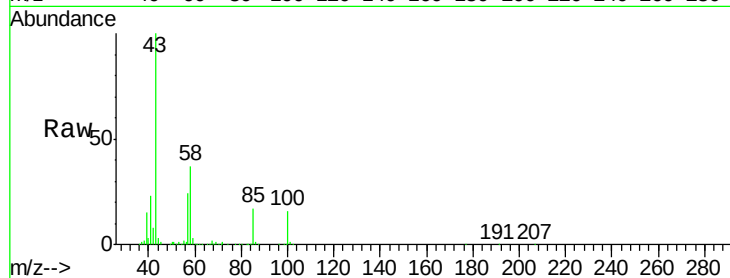
#51
4-Methyl-2-Pentanone
Concen: 285.958 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.2	45.2

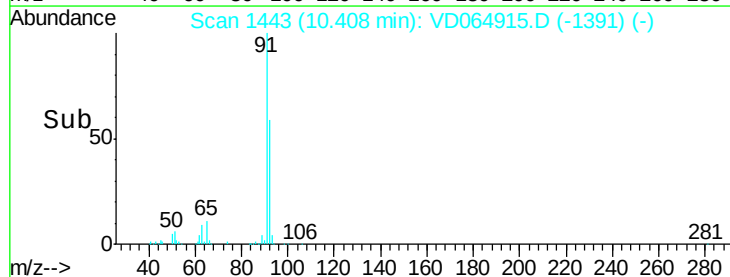
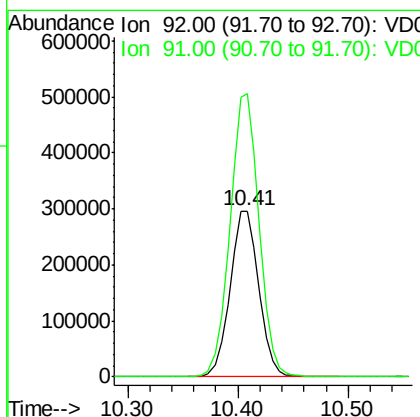
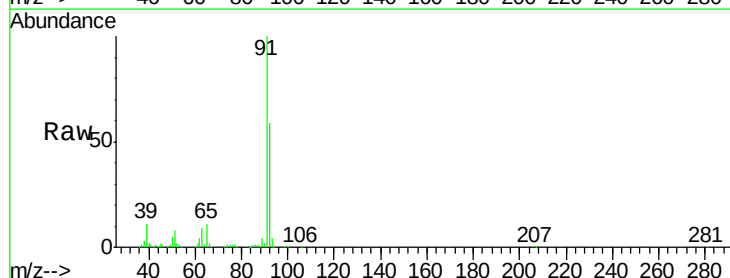
Manual Integrations
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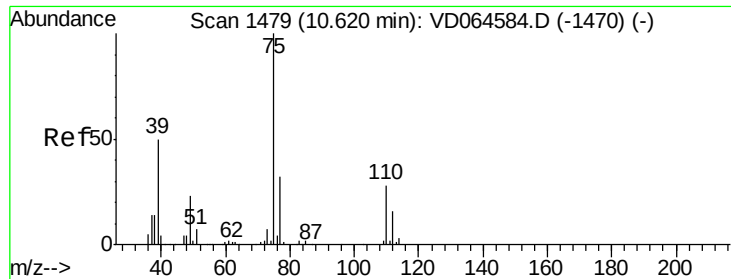
MMDadoda
1/23/2020 11:13:39 AM



#52
Toluene
Concen: 54.541 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.2	138.7	208.1





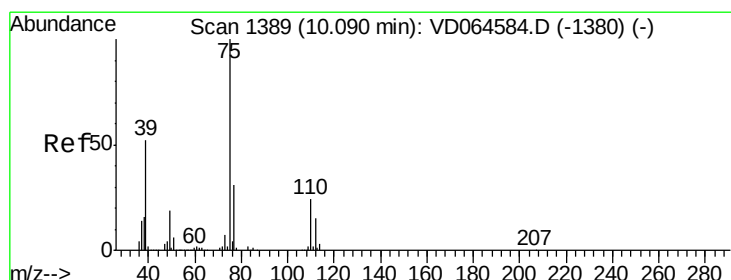
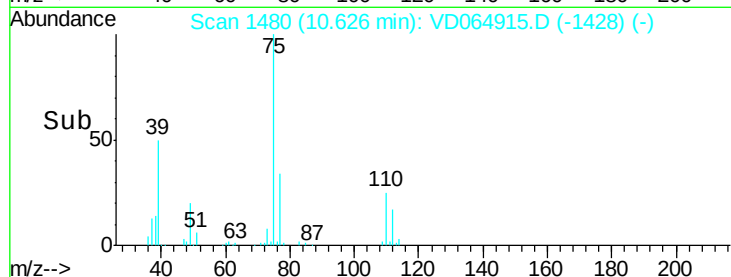
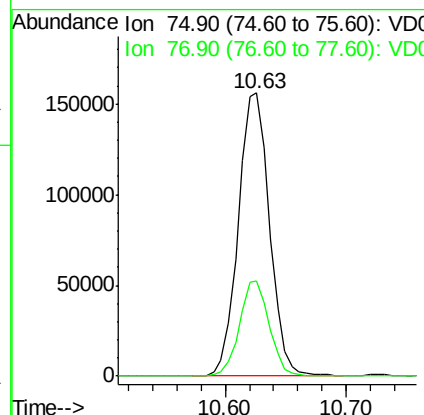
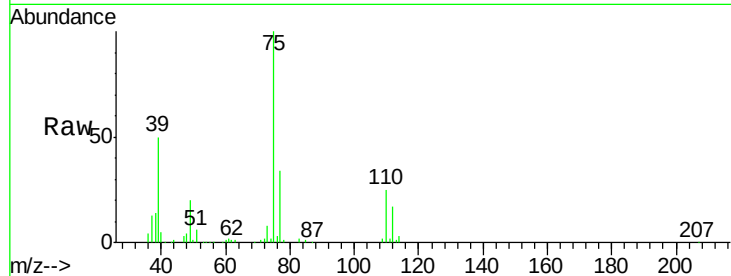
#53
 t-1,3-Dichloropropene
 Concen: 56.467 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 282105
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.4 38.2

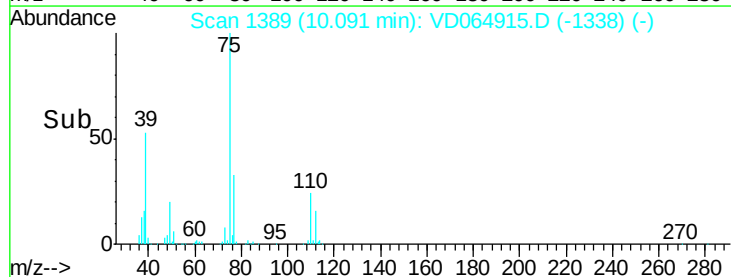
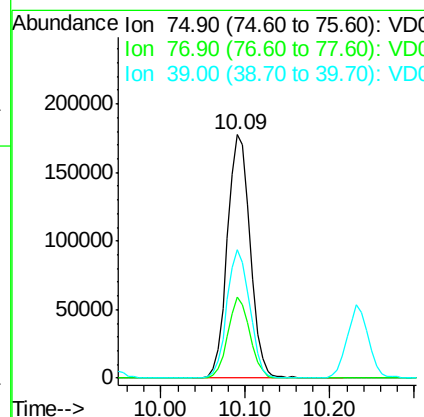
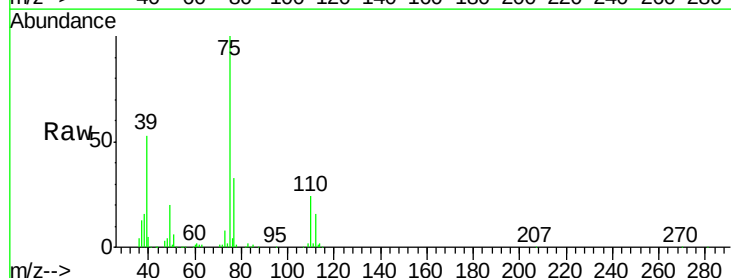
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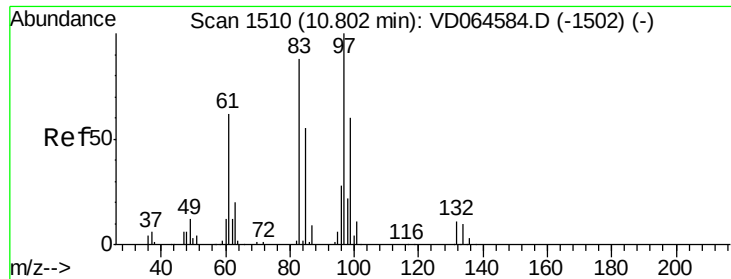
MMDadoda
 1/23/2020 11:13:39 AM



#54
 cis-1,3-Dichloropropene
 Concen: 56.227 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion: 75 Resp: 331226
 Ion Ratio Lower Upper
 75 100
 77 33.1 24.6 36.8
 39 52.8 41.4 62.2





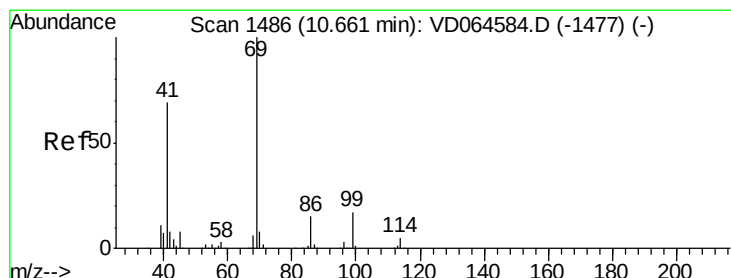
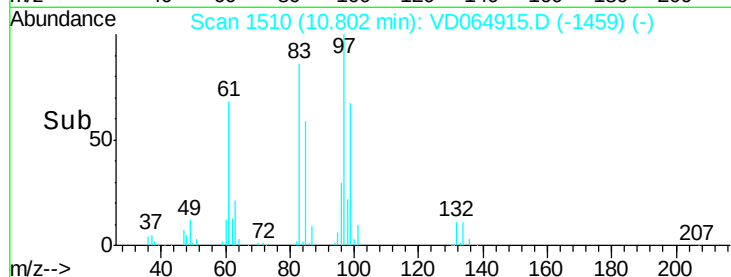
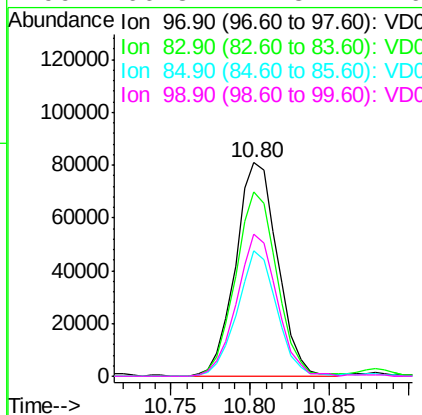
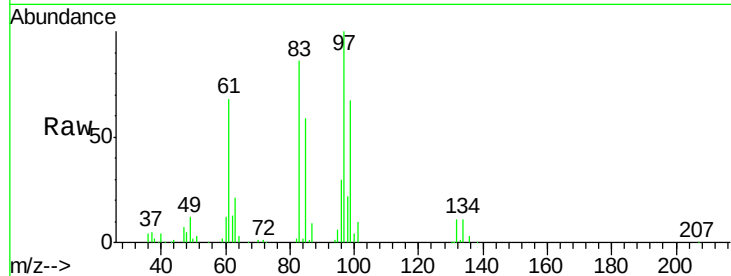
#55
 1,1,2-Trichloroethane
 Concen: 54.974 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	149194
Ion	Ratio	Lower	Upper
97	100		
83	86.2	70.2	105.4
85	58.5	44.0	66.0
99	66.8	47.8	71.6

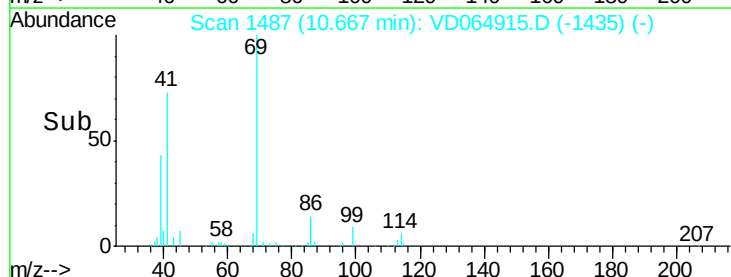
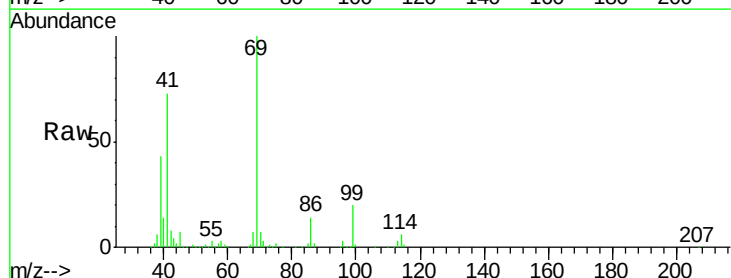
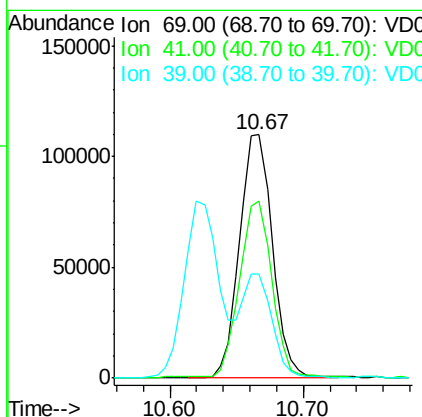
Manual Integrations
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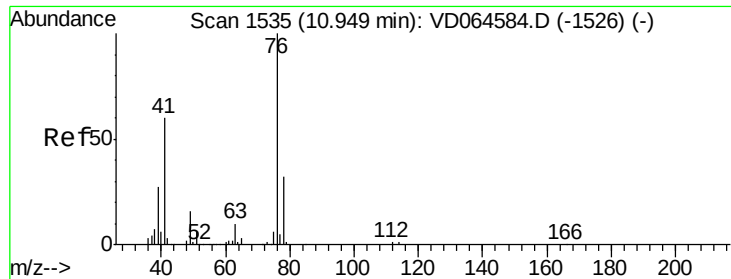
MMDadoda
 1/23/2020 11:13:39 AM



#56
 Ethyl methacrylate
 Concen: 55.532 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion:	69	Resp:	188215
Ion	Ratio	Lower	Upper
69	100		
41	70.3	55.3	82.9
39	37.1	33.8	50.8





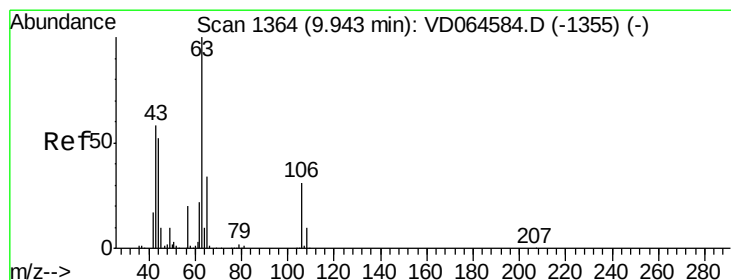
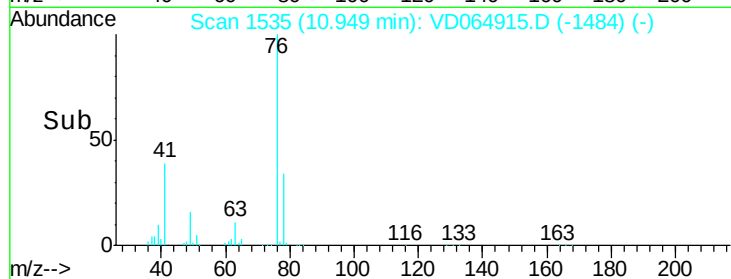
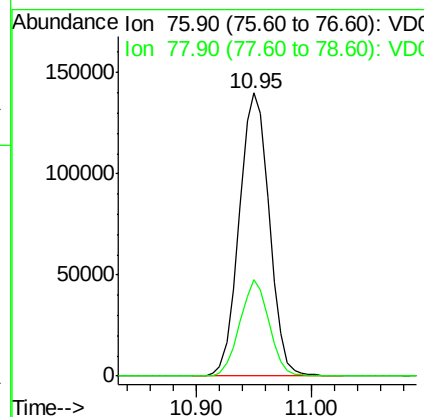
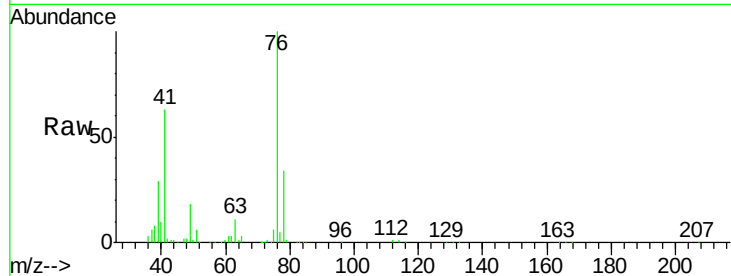
#57
 1,3-Dichloropropane
 Concen: 53.923 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 251974
 Ion Ratio Lower Upper
 76 100
 78 33.1 26.2 39.4

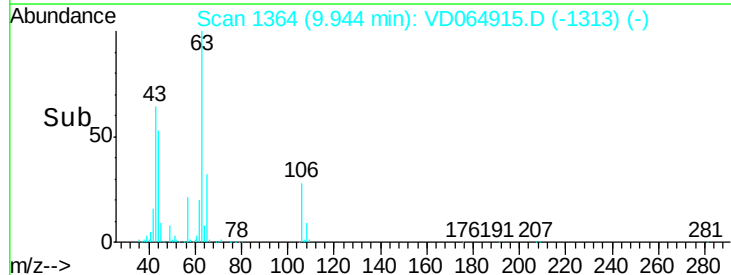
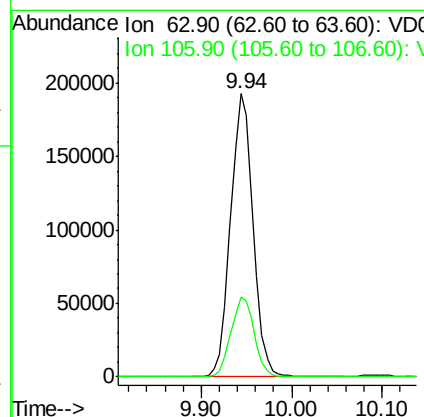
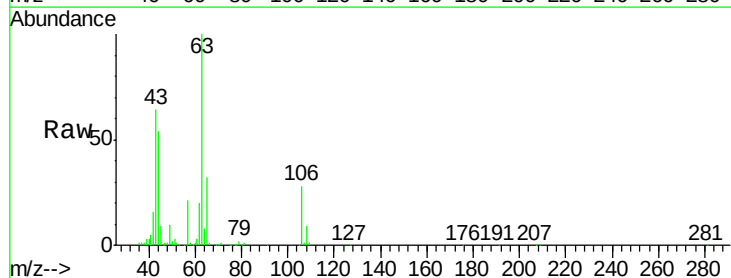
Manual Integrations
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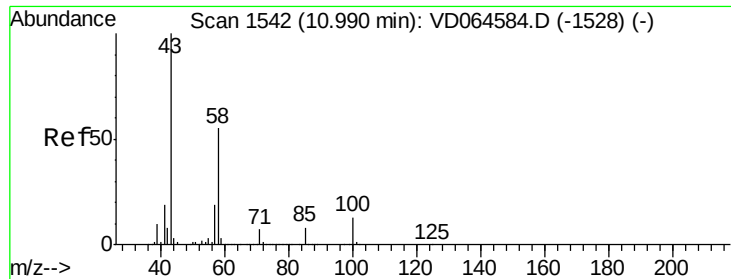
MMDadoda
 1/23/2020 11:13:39 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 258.076 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion: 63 Resp: 333255
 Ion Ratio Lower Upper
 63 100
 106 29.1 23.8 35.8





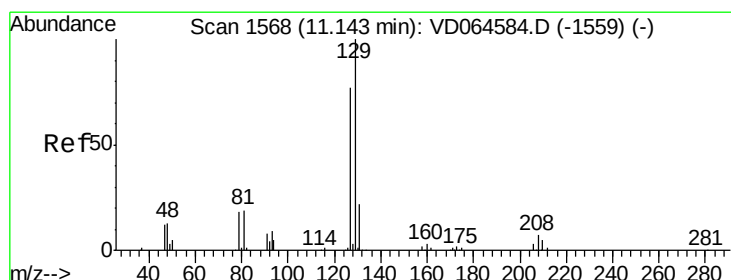
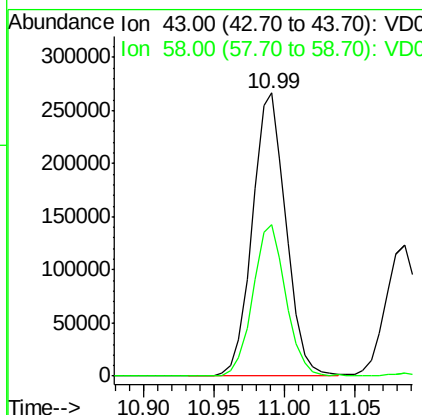
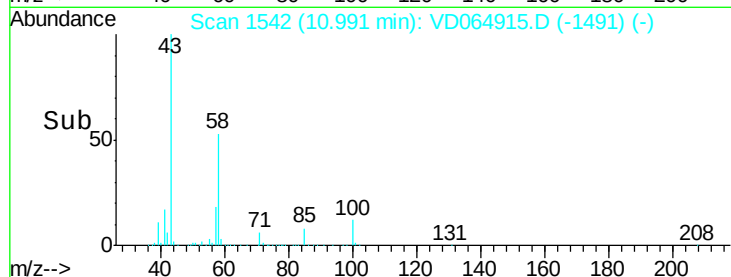
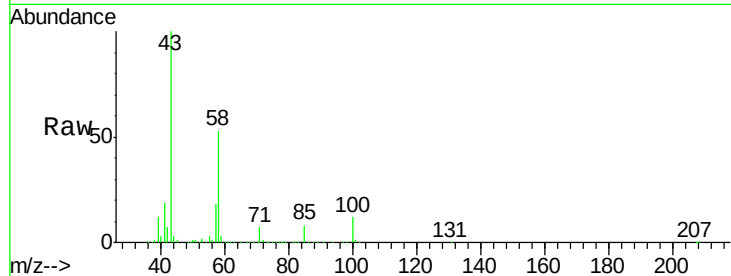
#59
2-Hexanone
Concen: 306.177 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 445076
Ion Ratio Lower Upper
43 100
58 52.7 26.4 79.0

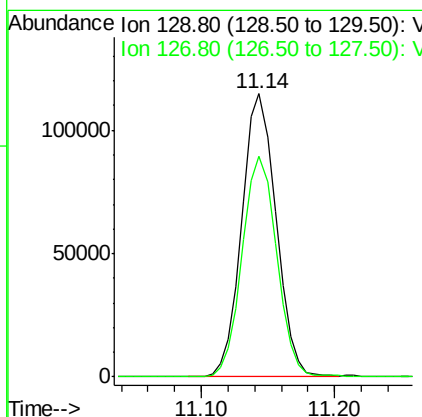
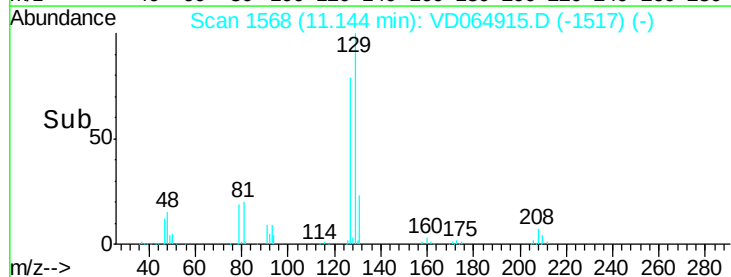
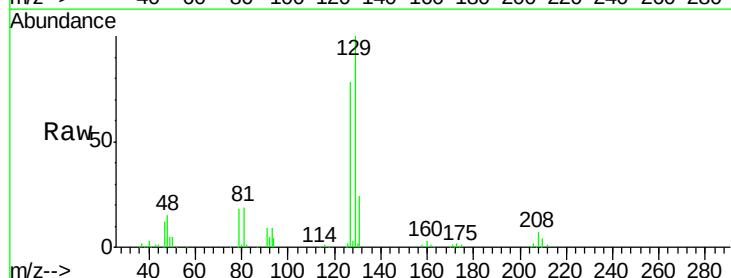
Manual Integrations
APPROVED

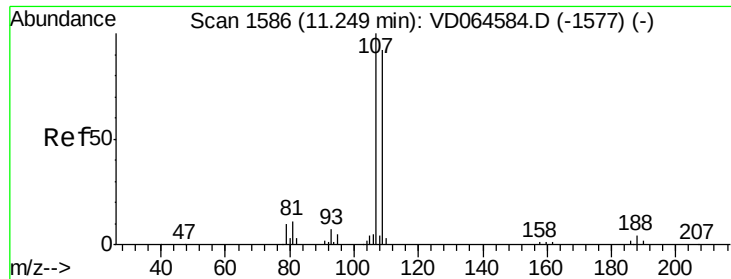
MMDadoda
1/23/2020 11:13:39 AM



#60
Dibromochloromethane
Concen: 54.459 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion: 129 Resp: 204383
Ion Ratio Lower Upper
129 100
127 78.5 38.4 115.2





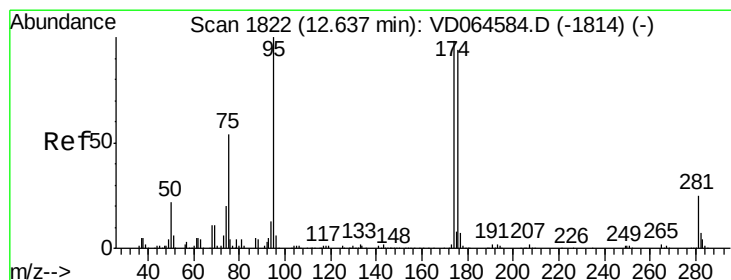
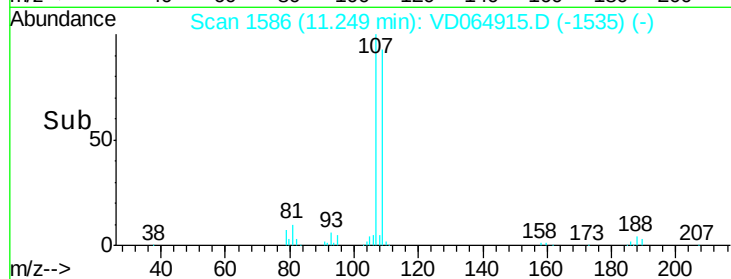
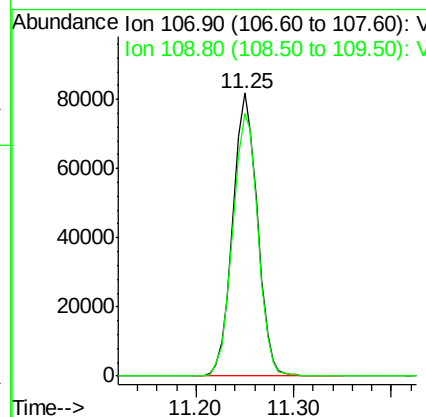
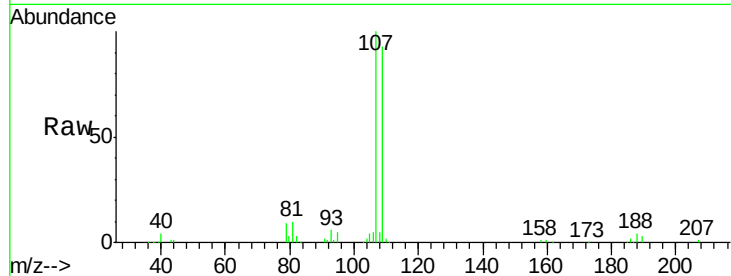
#61
 1,2-Dibromoethane
 Concen: 53.702 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.6	113.4

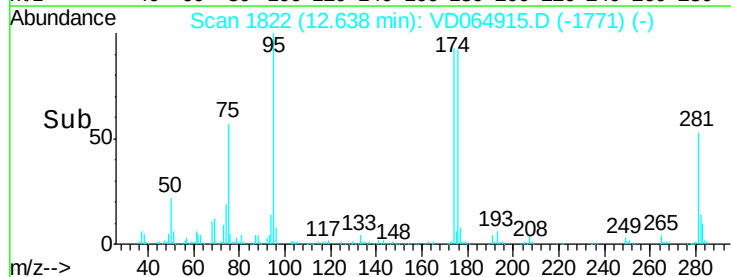
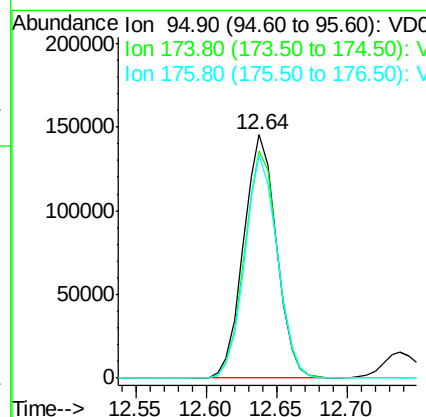
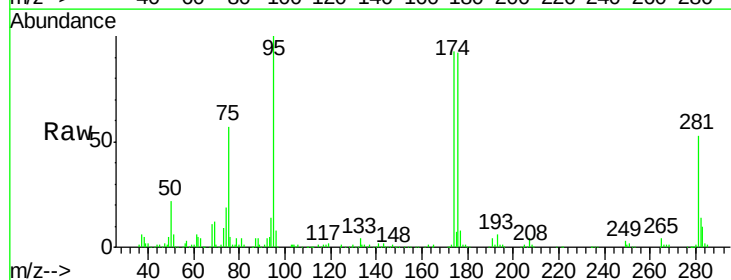
Manual Integrations
 APPROVED

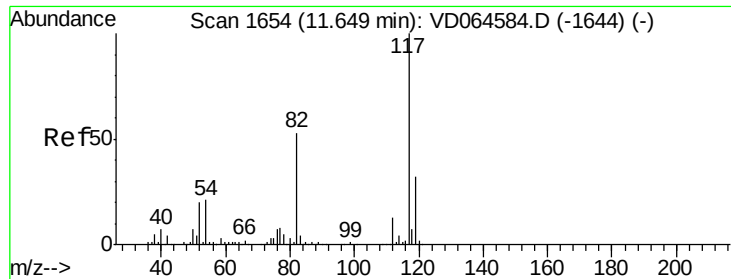
MMDadoda
 1/23/2020 11:13:39 AM



#62
 4-Bromofluorobenzene
 Concen: 55.637 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.5	0.0	193.2
176	90.7	0.0	184.2





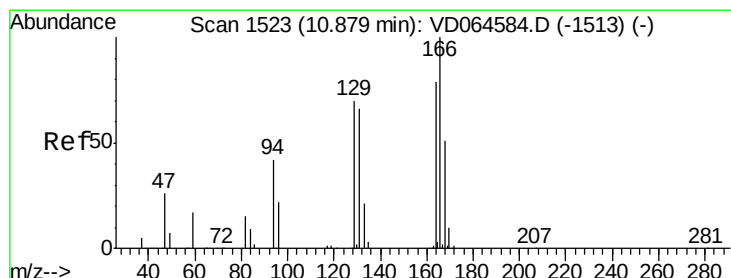
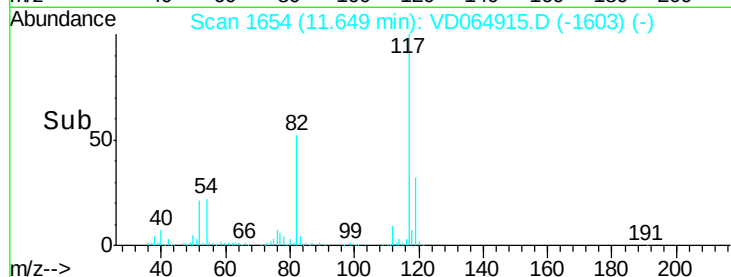
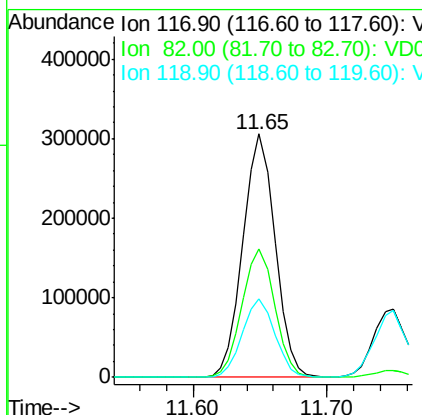
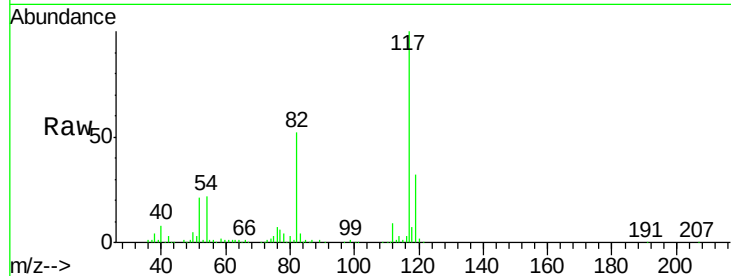
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	514102		
82	52.5		42.2	63.4
119	32.3		26.0	39.0

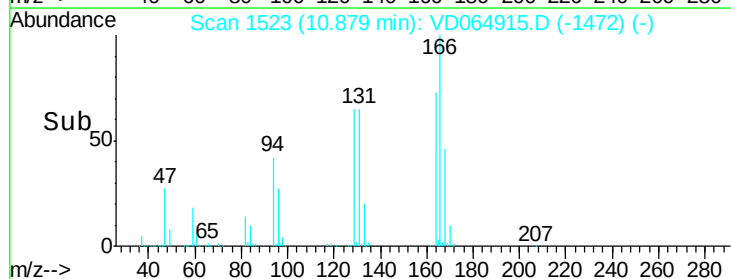
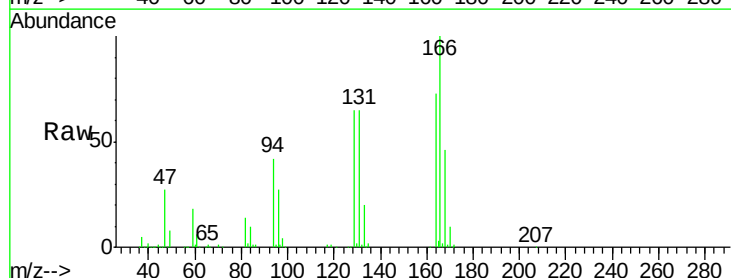
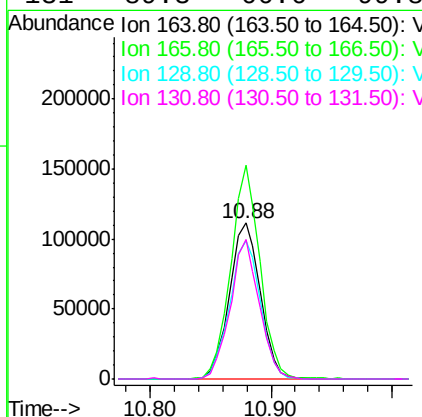
Manual Integrations
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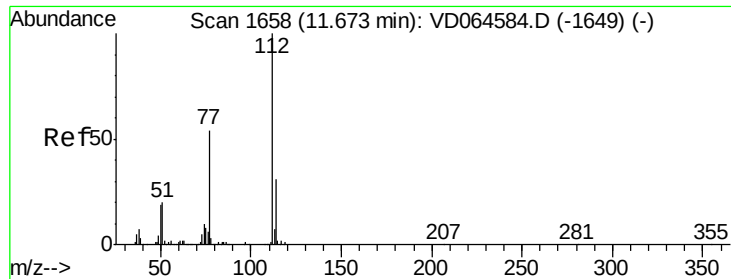
MMDadoda
1/23/2020 11:13:39 AM



#64
Tetrachloroethene
Concen: 50.411 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	198825		
166	136.7		101.3	151.9
129	88.6		70.5	105.7
131	89.3		66.6	99.8





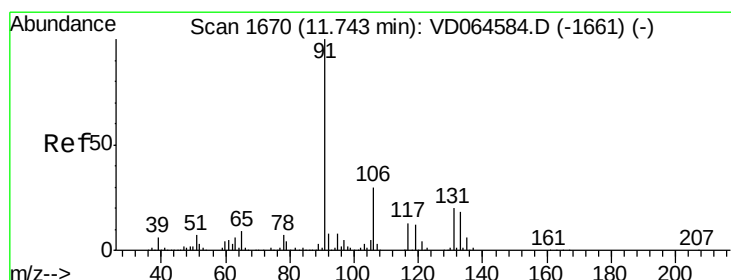
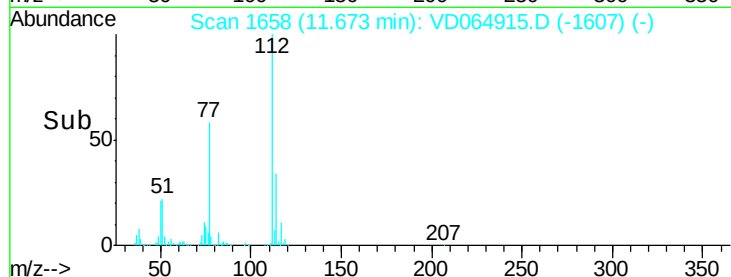
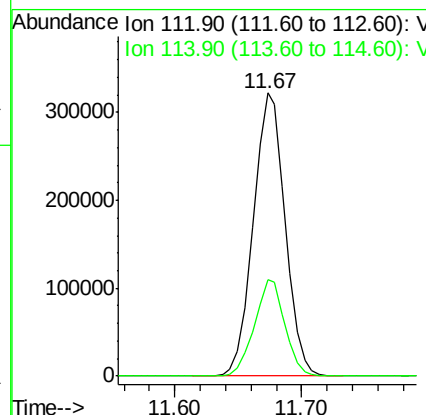
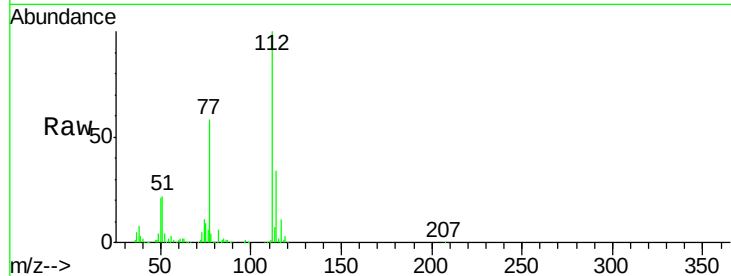
#65
Chlorobenzene
Concen: 52.703 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.0	24.8	37.2

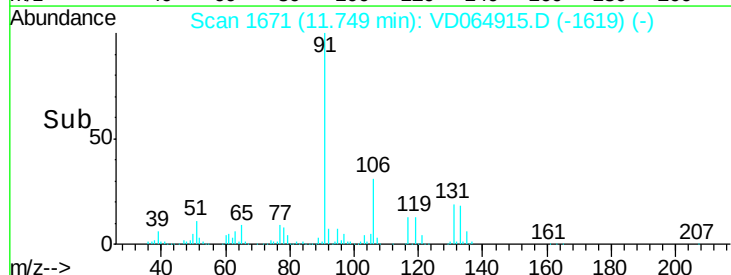
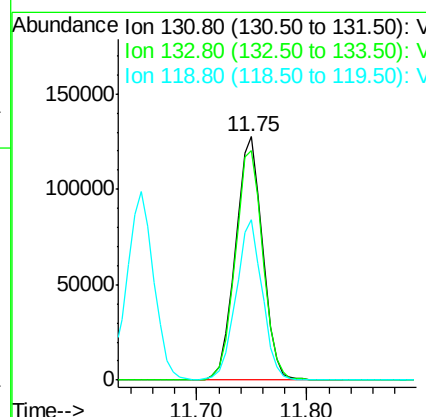
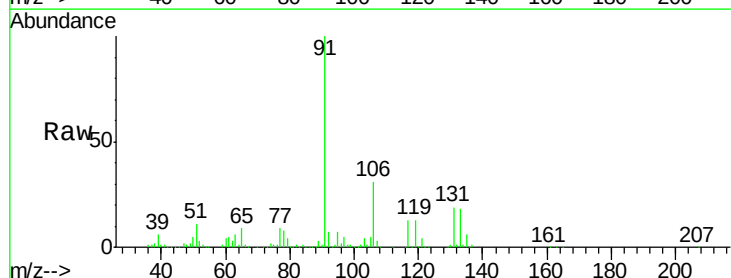
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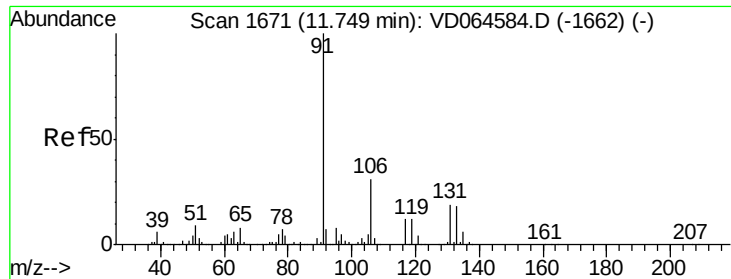
MMDadoda
1/23/2020 11:13:39 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 54.755 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	48.3	144.8
119	63.9	32.1	96.3





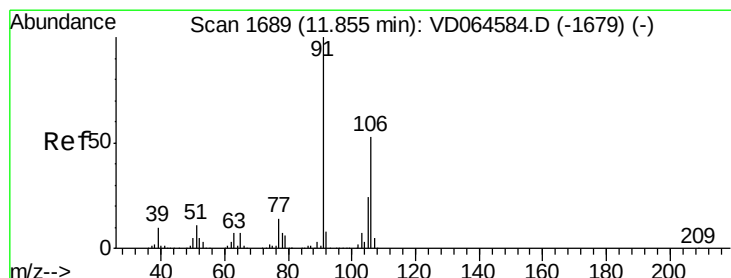
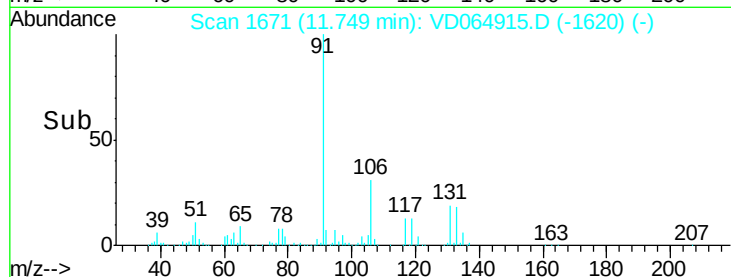
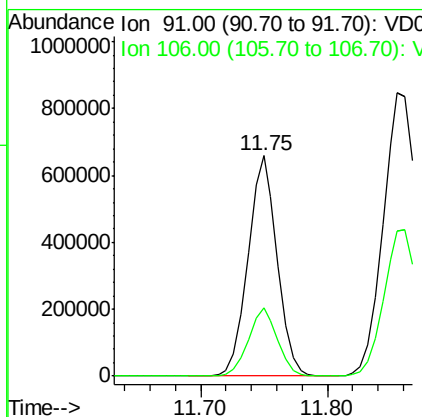
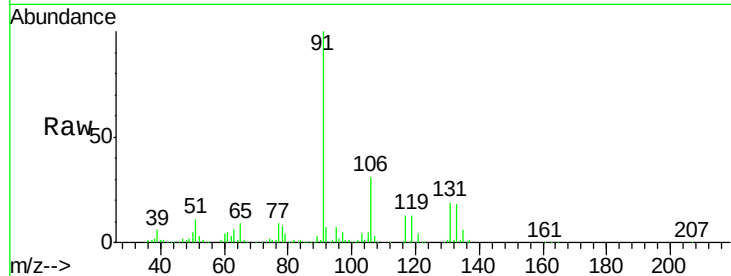
#67
Ethyl Benzene
Concen: 54.027 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1046335
Ion Ratio Lower Upper
91 100
106 31.2 24.6 36.8

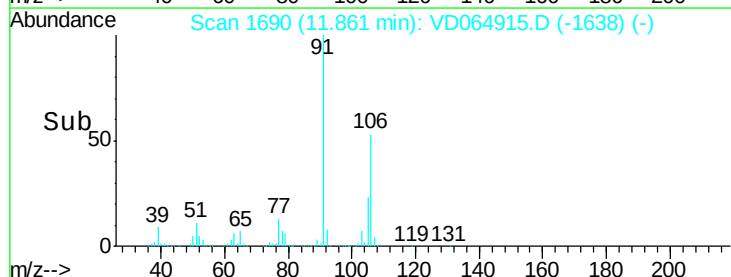
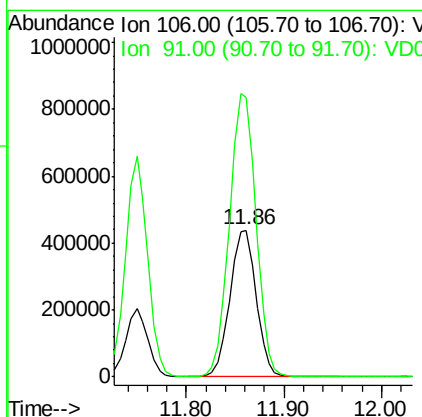
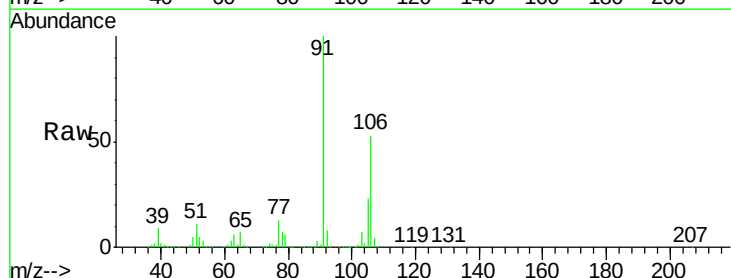
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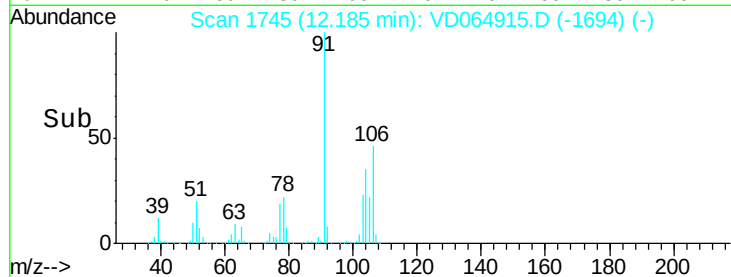
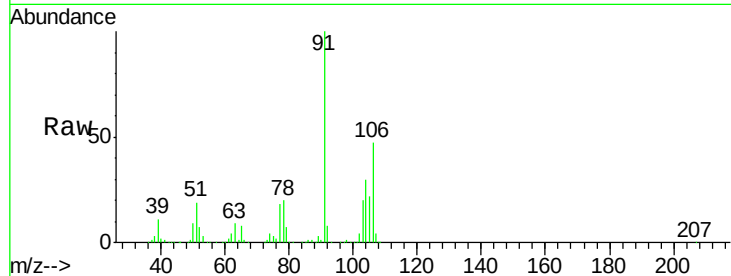
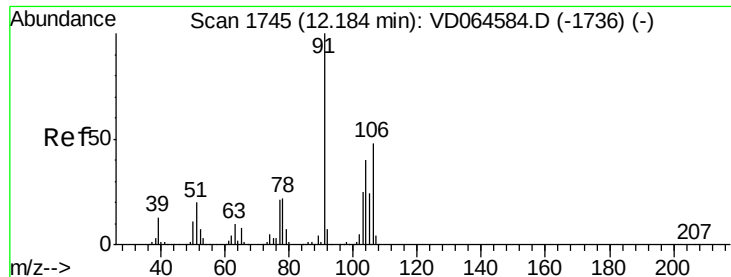
MMDadoda
1/23/2020 11:13:39 AM



#68
m/p-Xylenes
Concen: 109.168 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion: 106 Resp: 816056
Ion Ratio Lower Upper
106 100
91 196.4 156.3 234.5





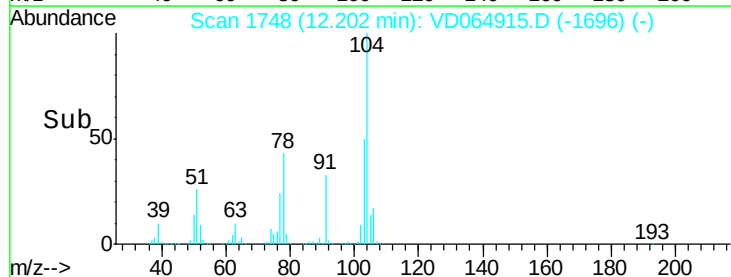
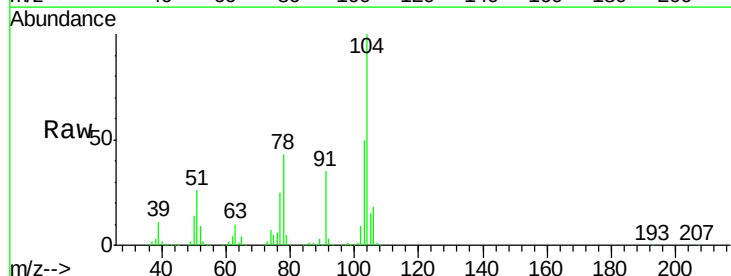
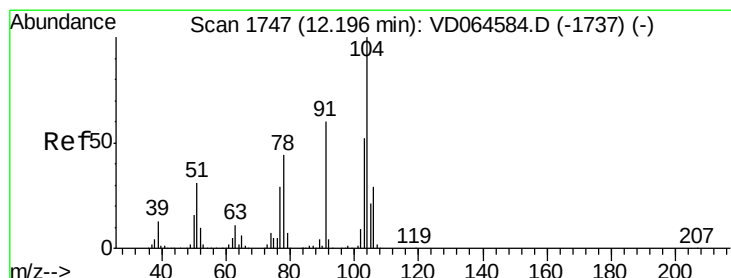
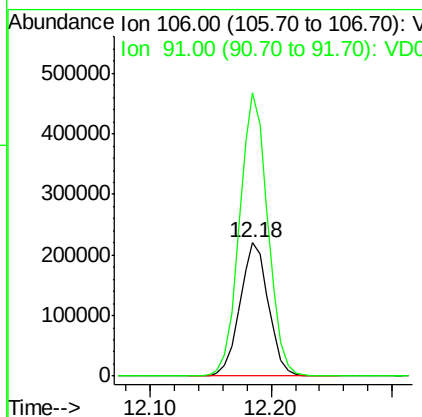
#69
o-Xylene
Concen: 53.487 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tot Ion:106 Resp: 361143
Ion Ratio Lower Upper
106 100
91 211.0 104.8 314.4

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

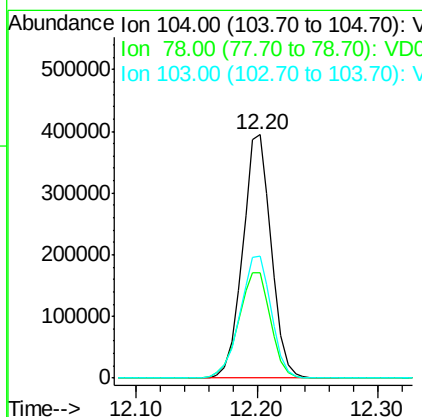
Manual Integrations
APPROVED

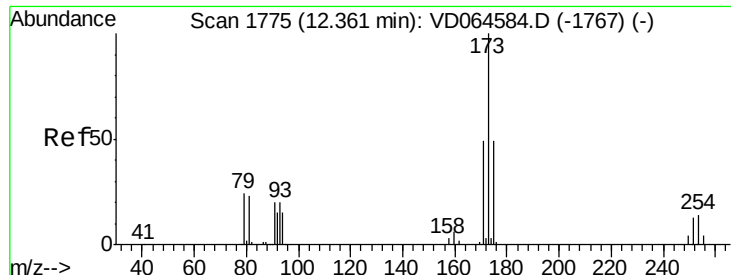
MMDadoda
1/23/2020 11:13:39 AM



#70
Styrene
Concen: 54.703 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion:104 Resp: 648325
Ion Ratio Lower Upper
104 100
78 48.6 38.2 57.2
103 55.0 44.6 67.0





#71

Bromoform

Concen: 52.723 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 120942

Ion Ratio Lower Upper

173 100

175 49.4 24.6 73.8

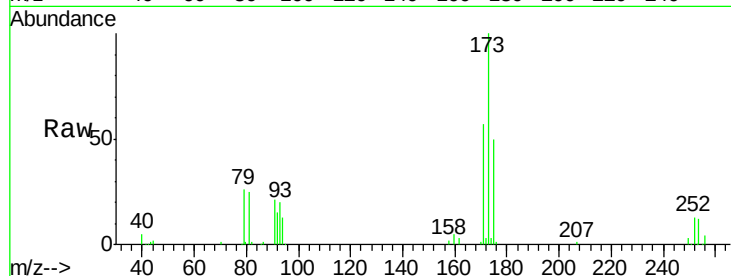
254 0.1 0.1 0.1#

Manual Integrations

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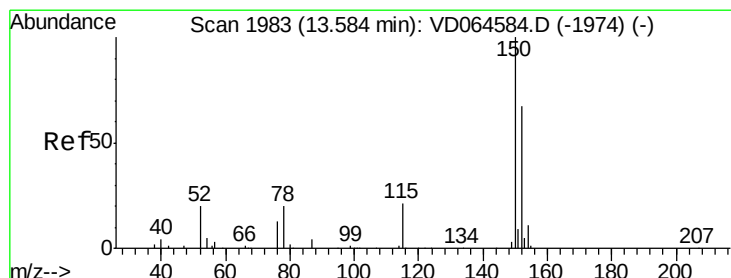
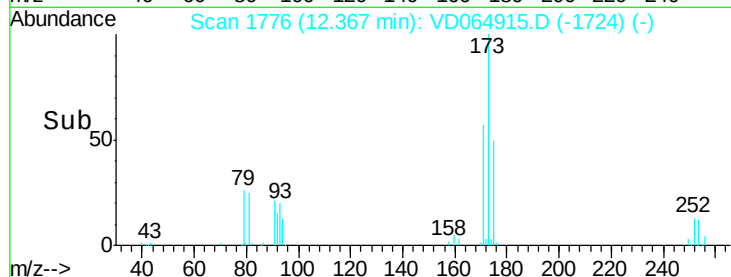
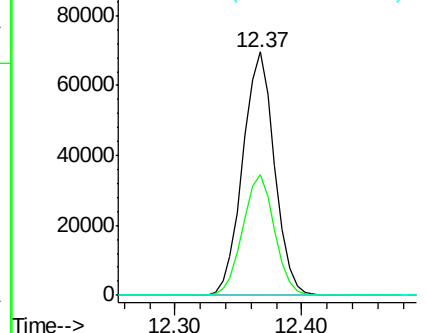
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

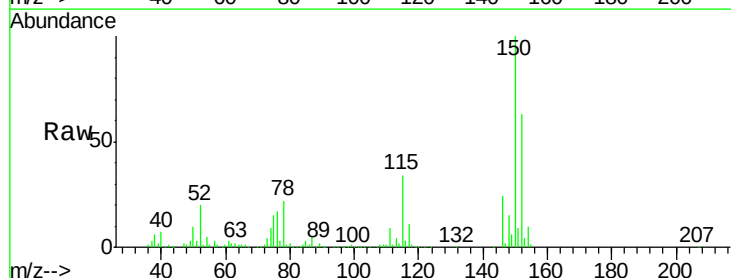
Tgt Ion:152 Resp: 258991

Ion Ratio Lower Upper

152 100

115 54.1 27.8 83.4

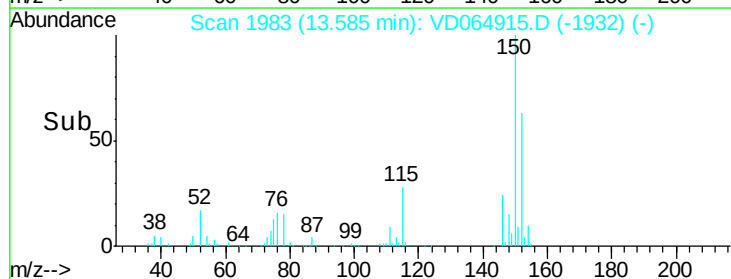
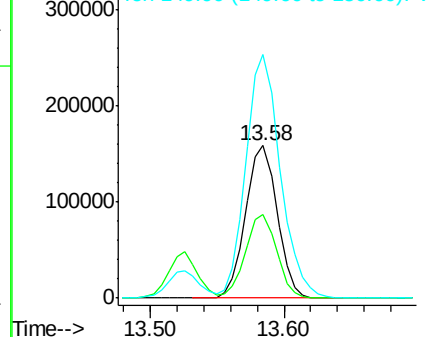
150 173.3 0.0 351.4

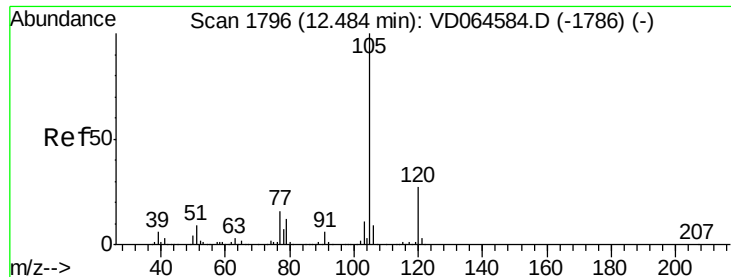


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 54.377 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1006417

Ion Ratio Lower Upper

105 100

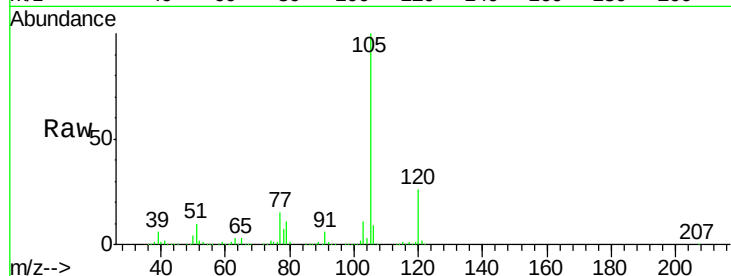
120 26.7 13.5 40.5

Manual Integrations

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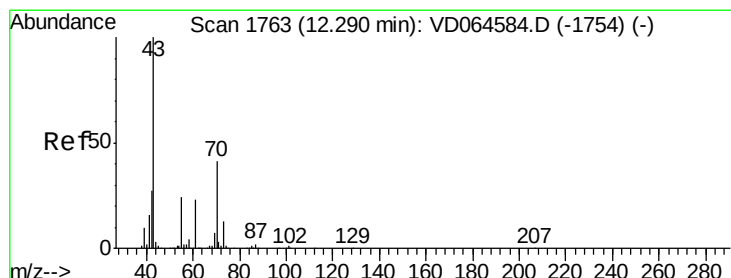
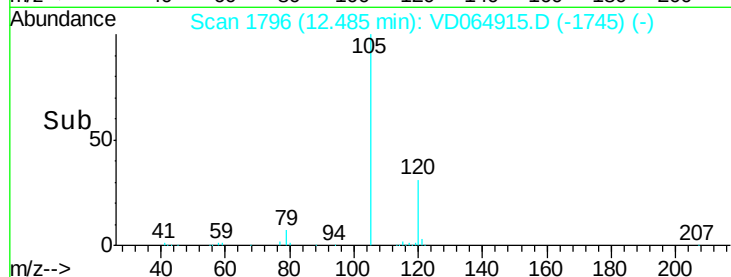
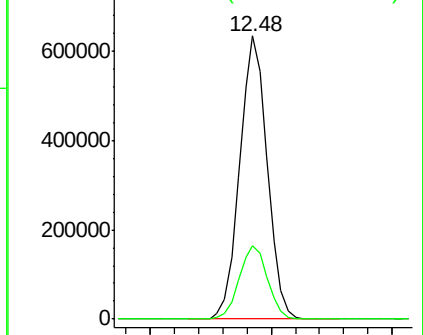
MMDadoda

1/23/2020 11:13:39 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.188 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion: 43 Resp: 214386

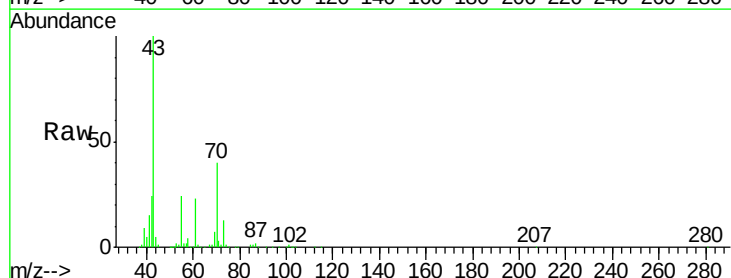
Ion Ratio Lower Upper

43 100

70 40.7 33.4 50.0

55 24.5 19.4 29.0

61 22.7 18.3 27.5

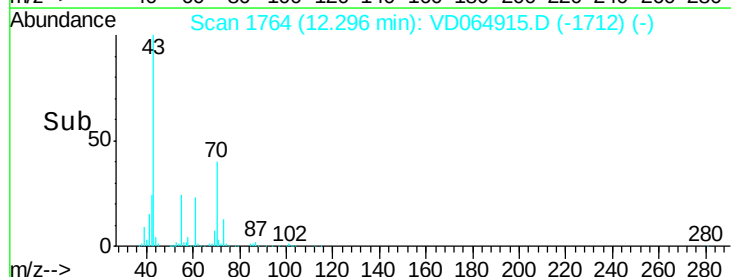
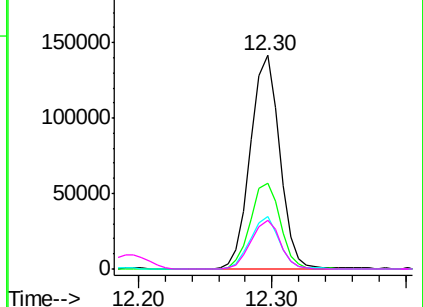


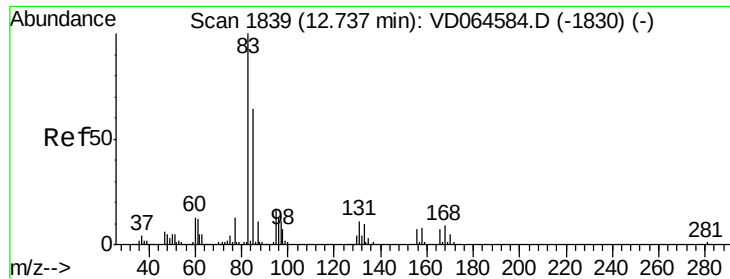
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 54.114 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

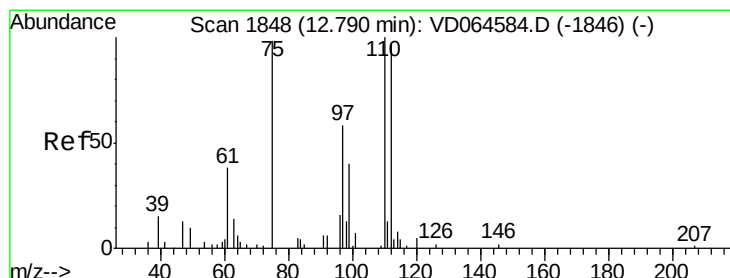
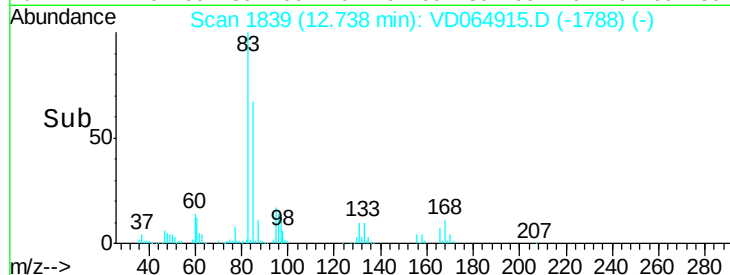
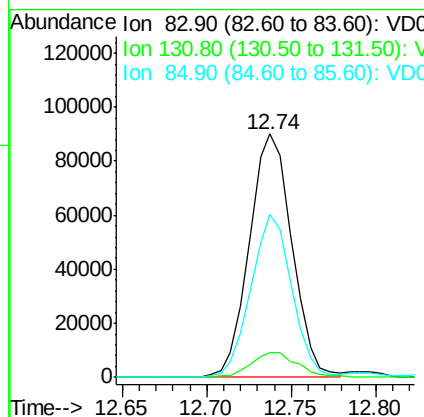
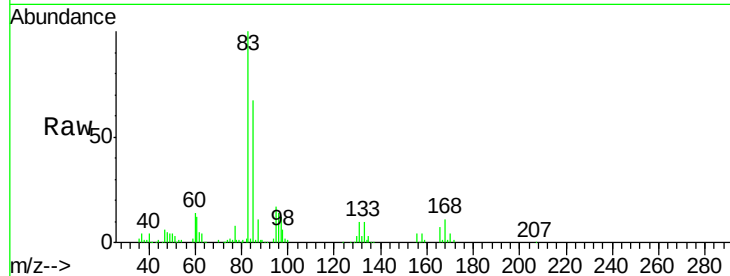
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	157332
Ion Ratio	Lower	Upper	
83	100		
131	11.3	5.8	17.4
85	64.6	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 51.104 ug/l m

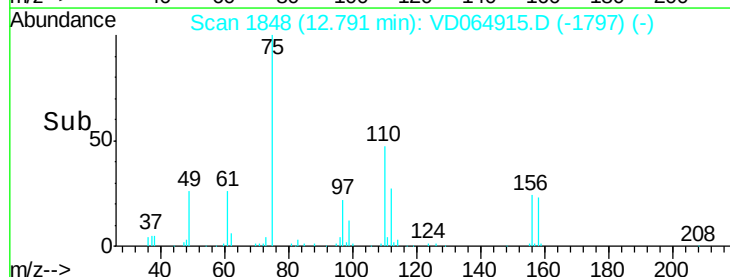
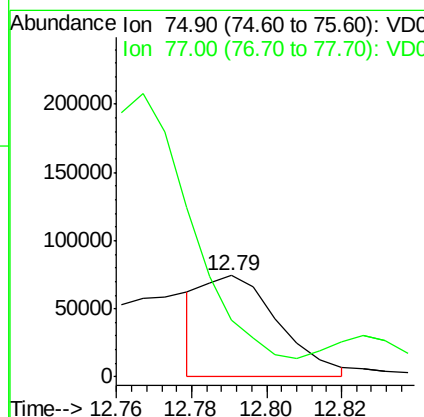
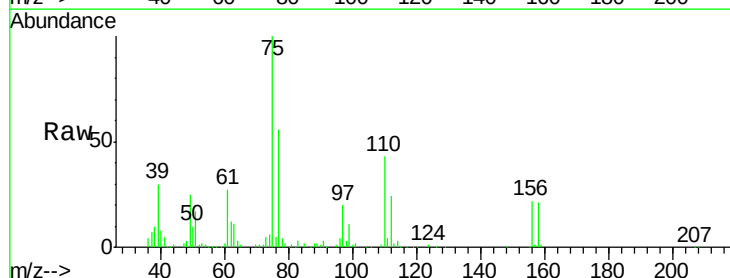
RT: 12.79 min Scan# 1848

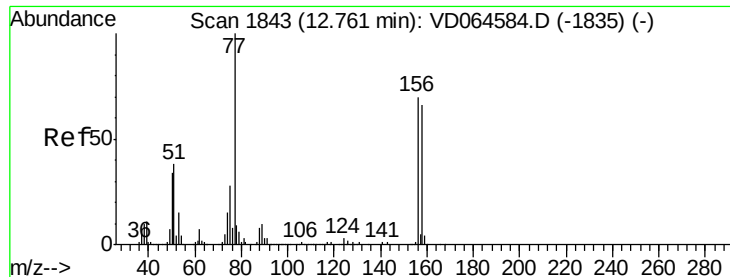
Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Tgt Ion:	75	Resp:	104516
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.724 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 235226

Ion Ratio Lower Upper

156 100

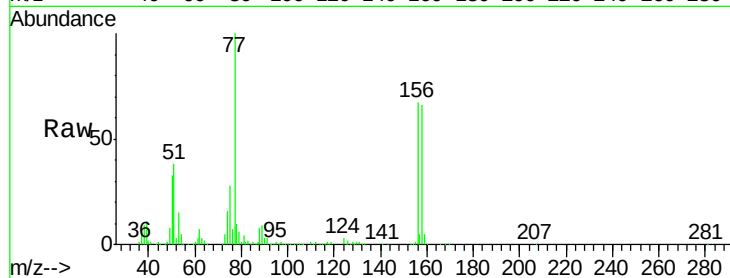
77 165.5 80.9 242.7

158 96.2 48.0 144.2

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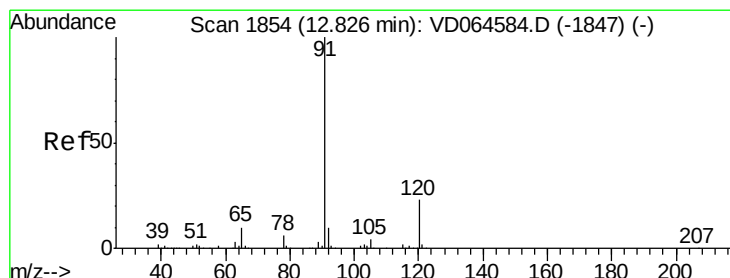
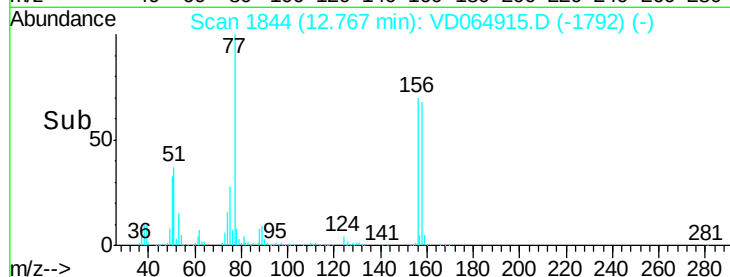
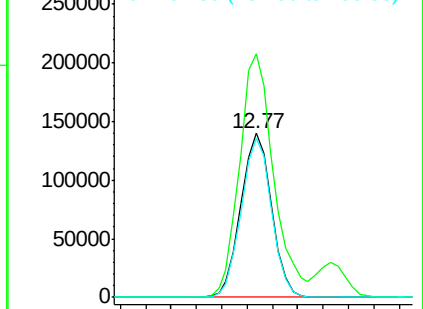
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 55.464 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064915.D

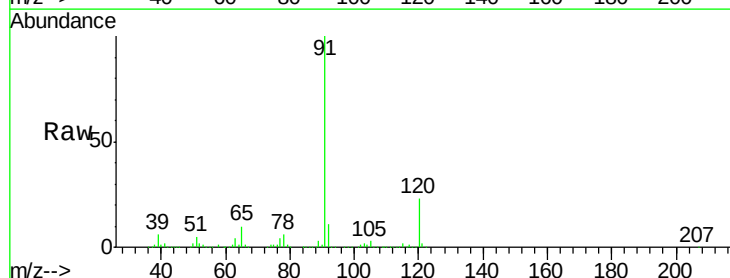
Acq: 22 Jan 2020 14:01

Tgt Ion: 91 Resp: 1197573

Ion Ratio Lower Upper

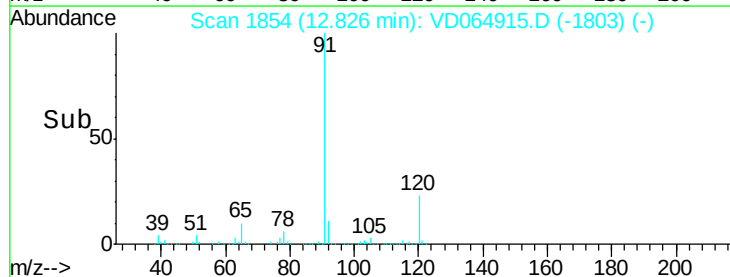
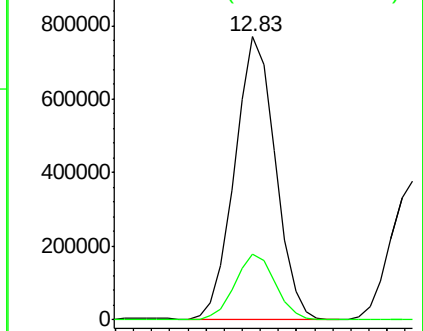
91 100

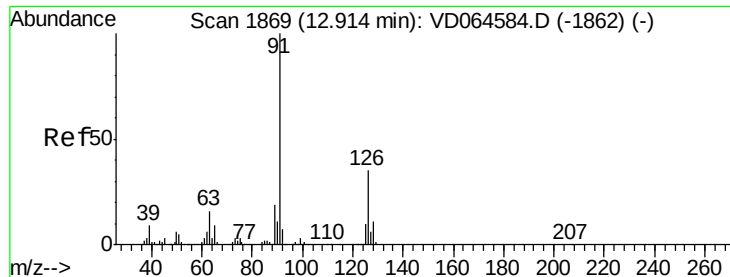
120 23.2 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 54.022 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 640769

Ion Ratio Lower Upper

91 100

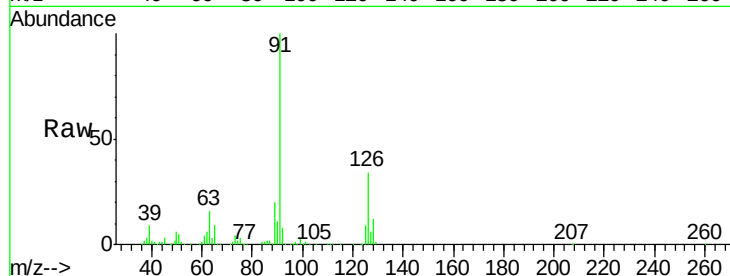
126 35.7 17.8 53.5

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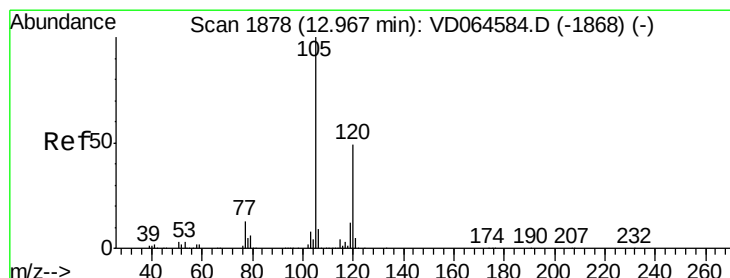
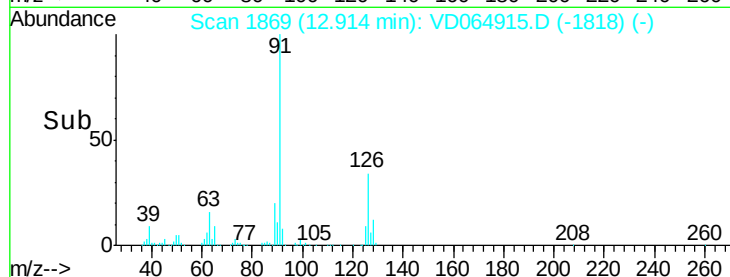
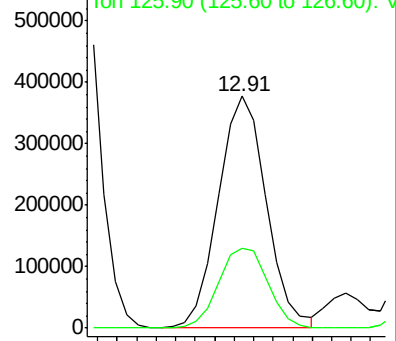
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Abundance Ion 91.00 (90.70 to 91.70): VD064915.D (-1818) (-)



#80

1,3,5-Trimethylbenzene

Concen: 53.524 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064915.D

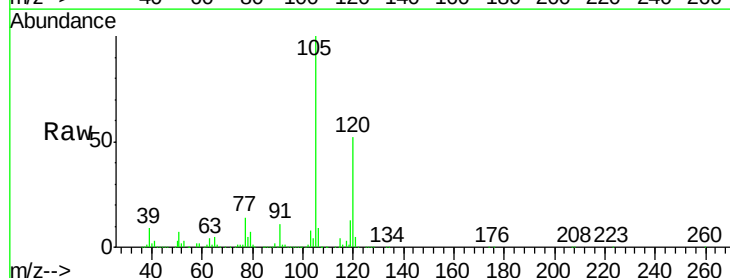
Acq: 22 Jan 2020 14:01

Tgt Ion: 105 Resp: 813753

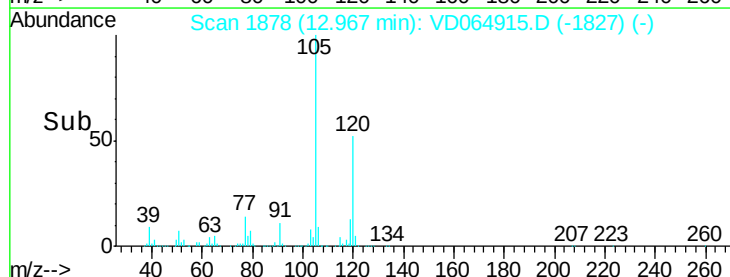
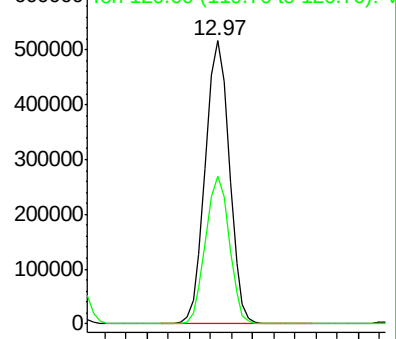
Ion Ratio Lower Upper

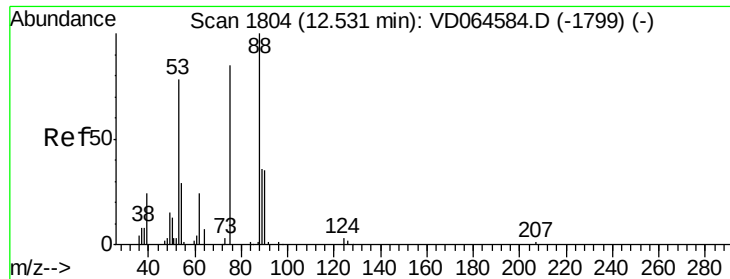
105 100

120 51.2 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VD064915.D (-1827) (-)





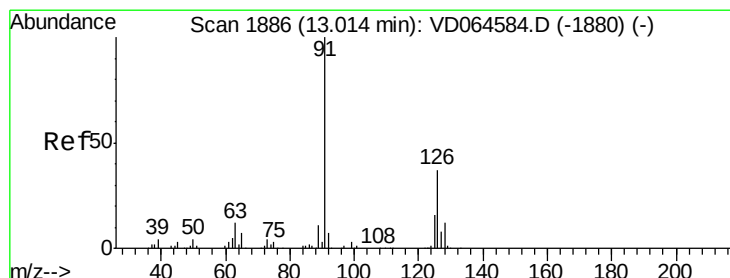
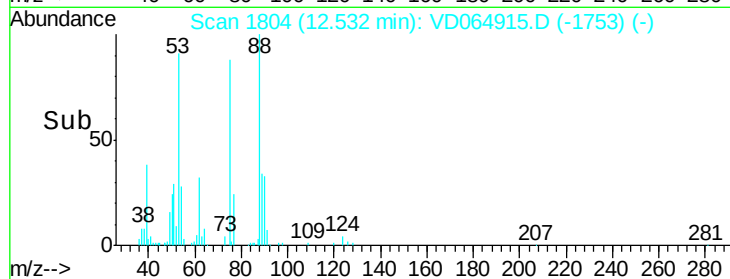
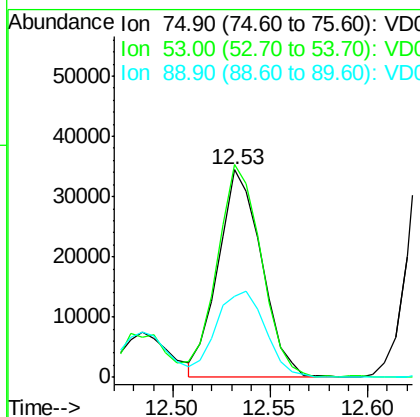
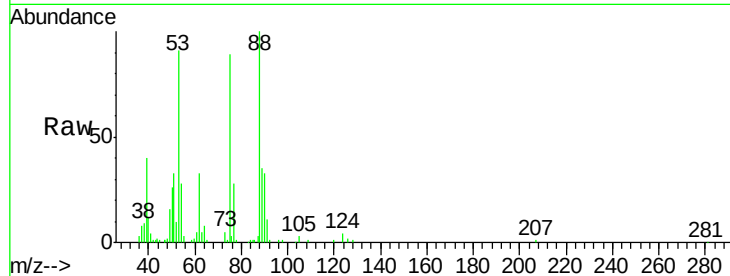
#81
trans-1,4-Dichloro-2-butene
Concen: 54.613 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.7	78.8	118.2
89	46.7	38.3	57.5

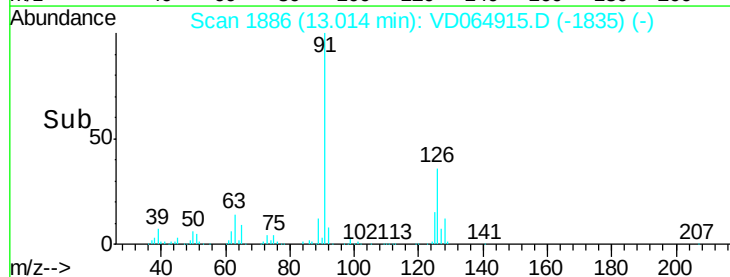
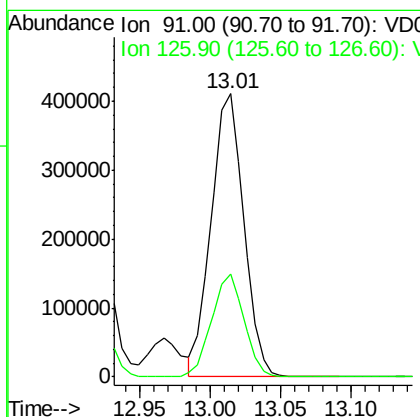
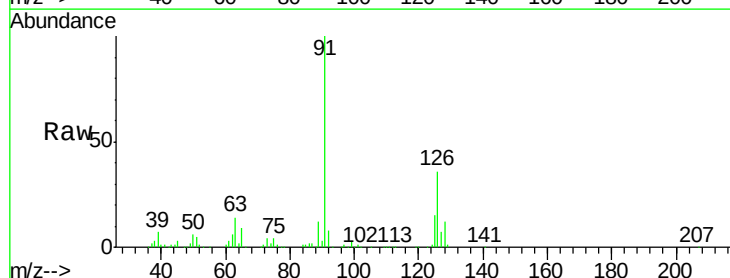
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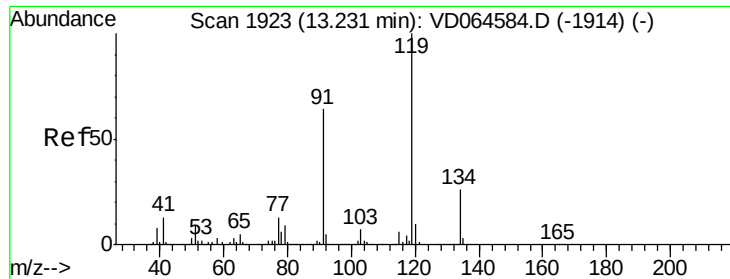
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#82
4-Chlorotoluene
Concen: 52.324 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.8	53.5





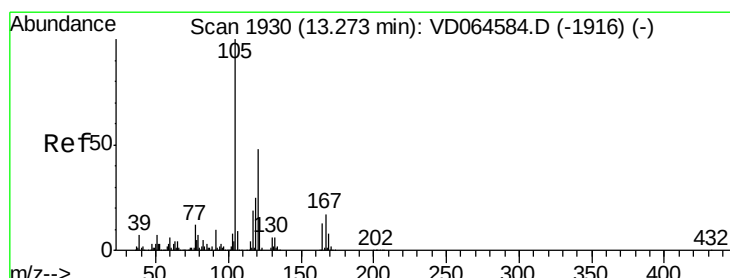
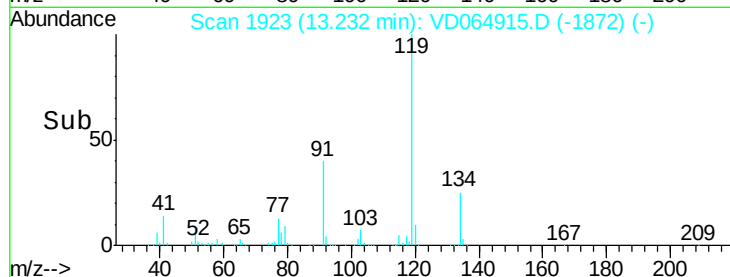
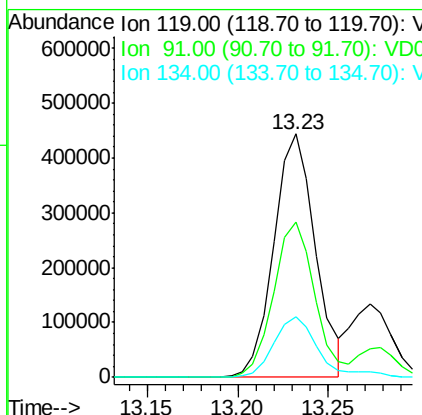
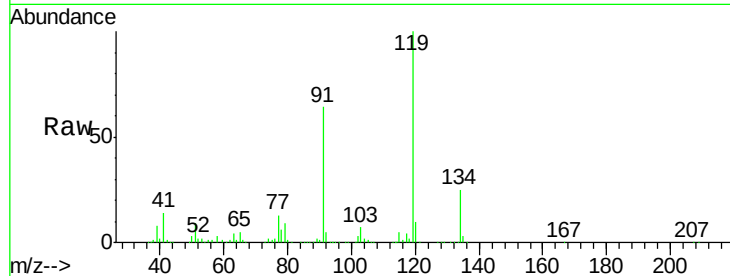
#83
 tert-Butylbenzene
 Concen: 53.786 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.9	30.8	92.4
134	27.1	12.8	38.3

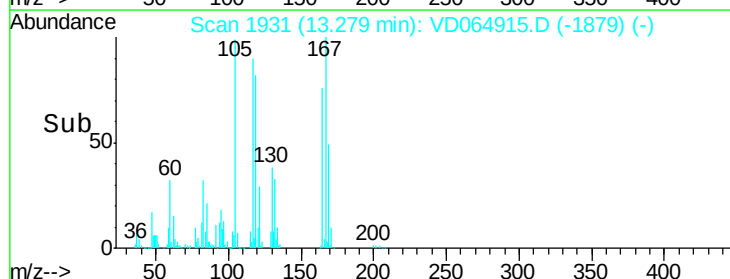
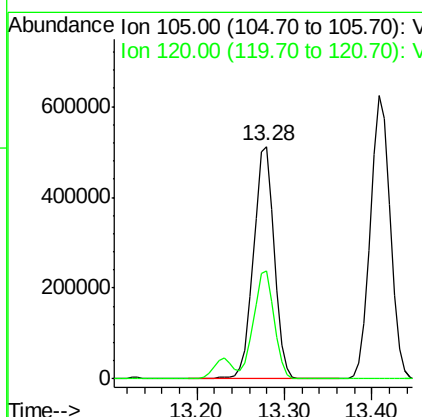
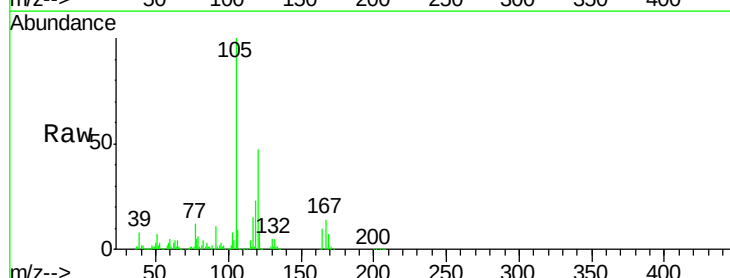
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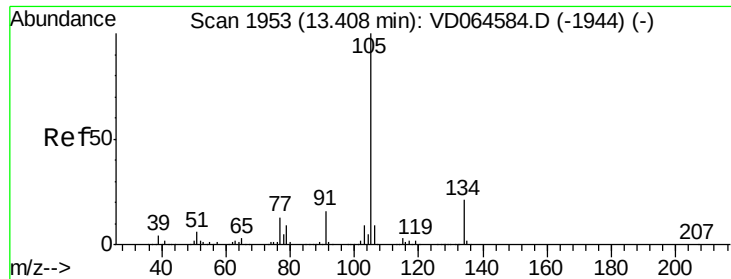
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#84
 1,2,4-Trimethylbenzene
 Concen: 54.288 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.8	71.2





#85

sec-Butylbenzene

Concen: 54.669 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 989344

Ion Ratio Lower Upper

105 100

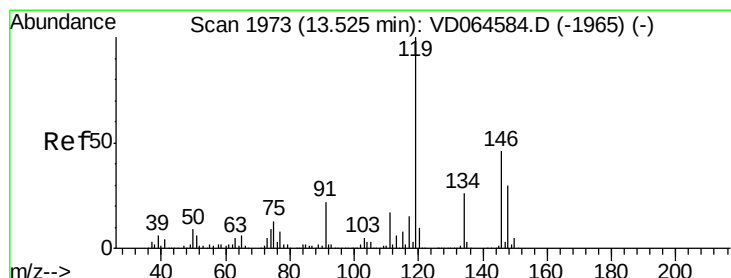
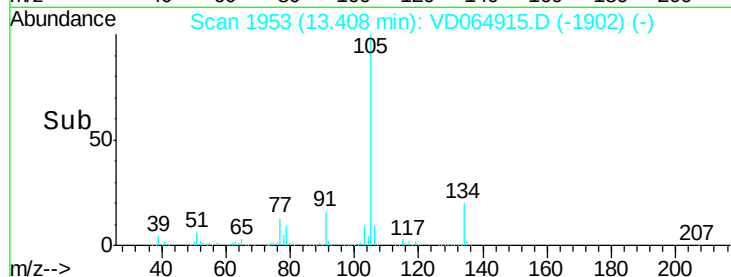
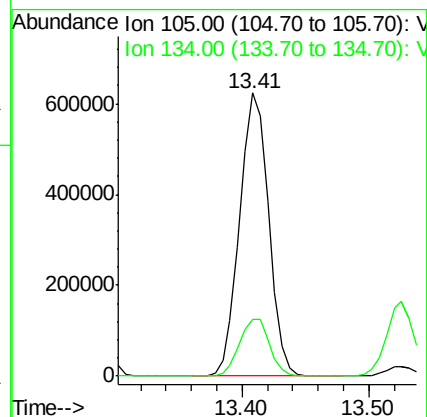
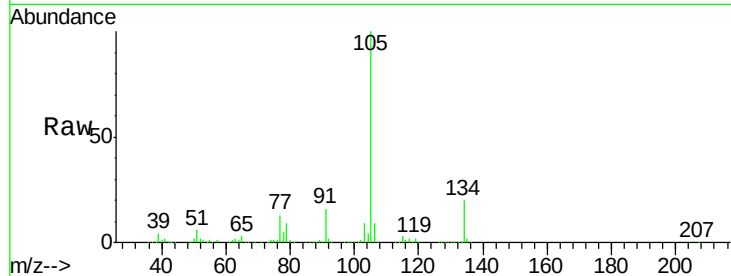
134 20.8 10.6 31.8

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#86

p-Isopropyltoluene

Concen: 54.363 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064915.D

Acq: 22 Jan 2020 14:01

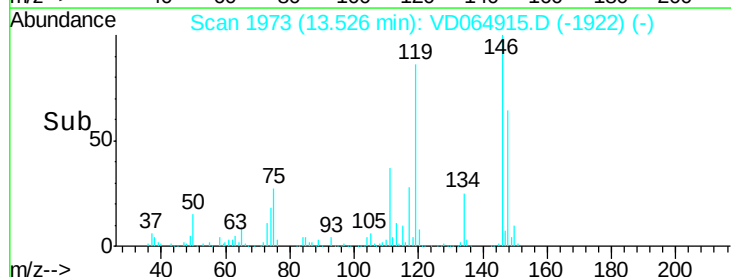
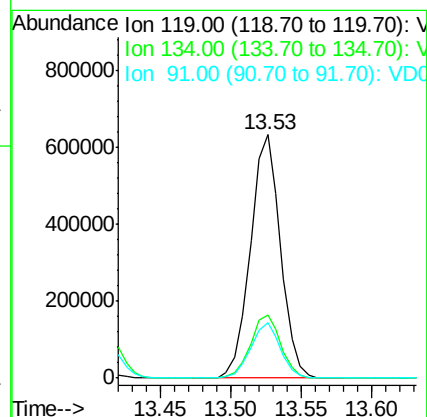
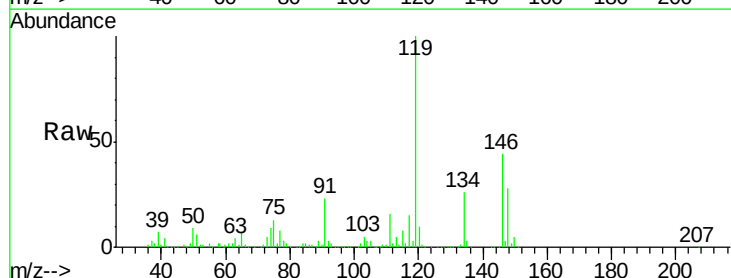
Tgt Ion:119 Resp: 940699

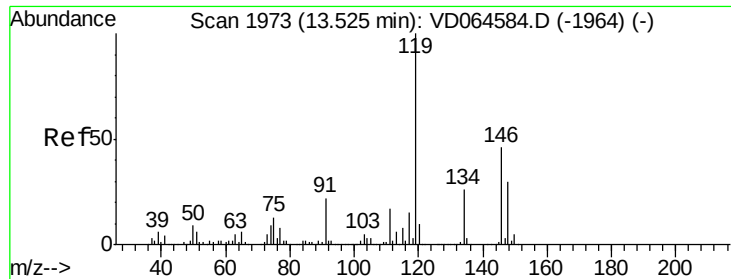
Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.1

91 22.5 11.2 33.6





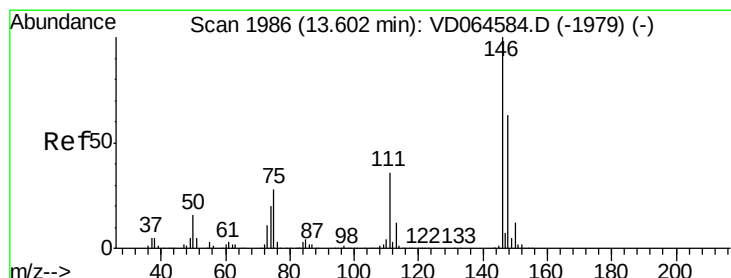
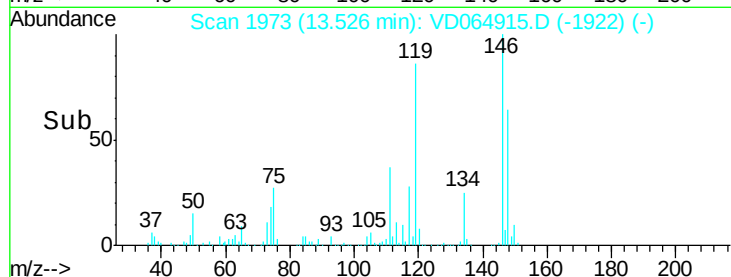
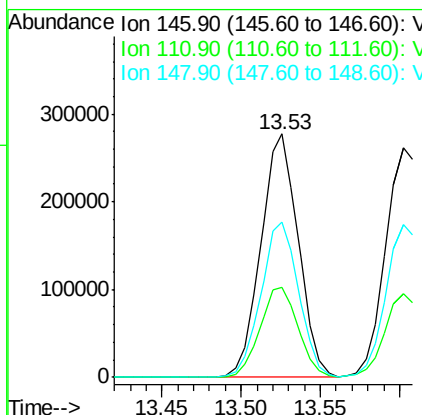
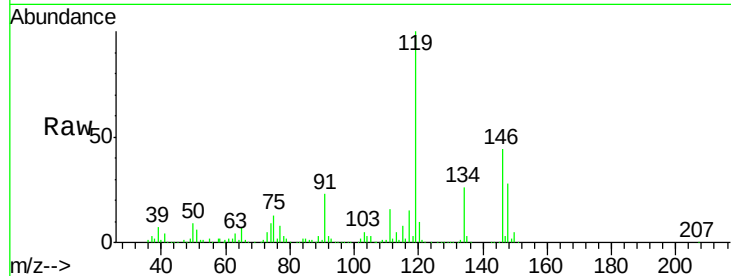
#87
 1,3-Dichlorobenzene
 Concen: 52.540 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	455496		
111	37.8	18.8	56.4	
148	64.3	32.5	97.5	

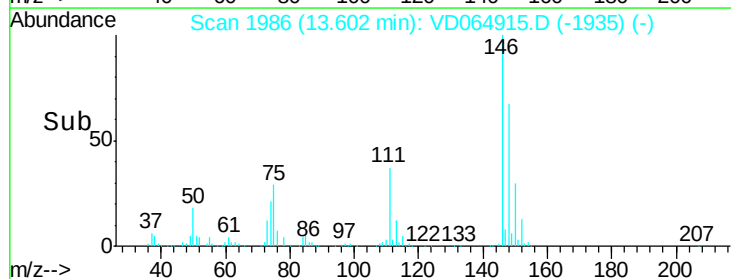
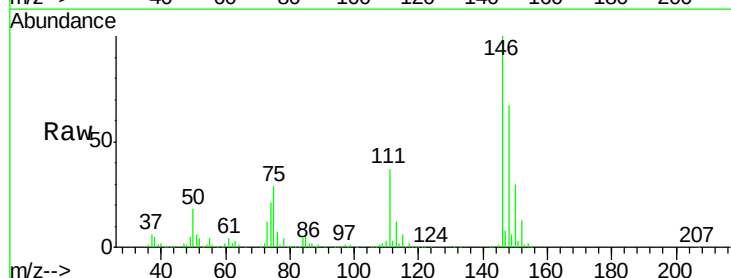
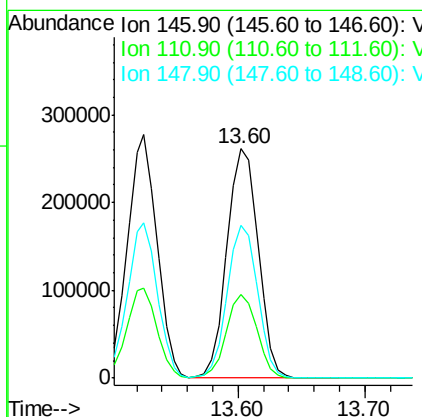
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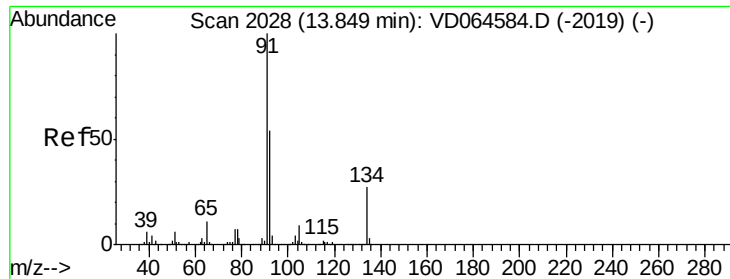
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#88
 1,4-Dichlorobenzene
 Concen: 52.335 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	445718		
111	35.8	18.1	54.1	
148	64.9	32.3	96.9	





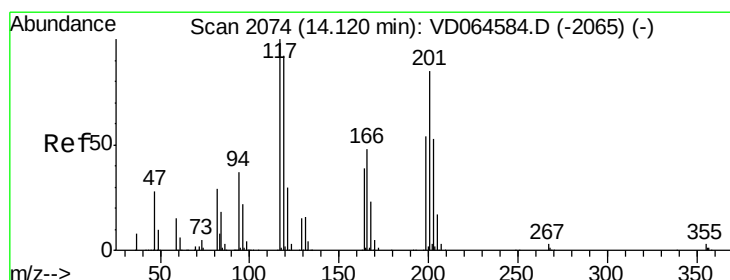
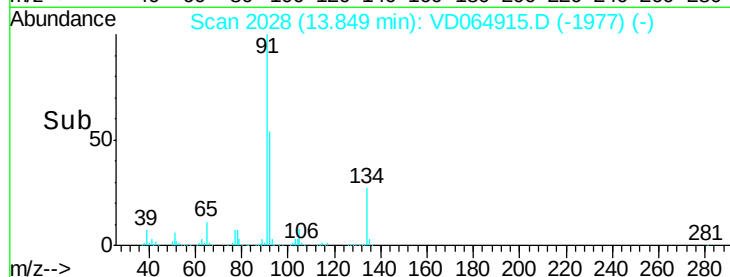
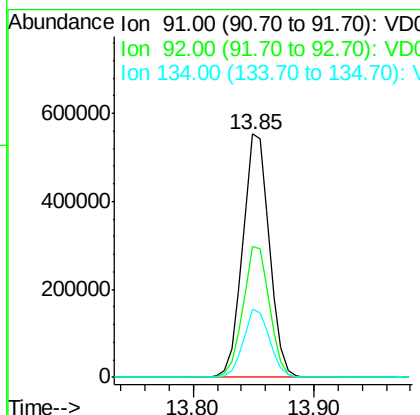
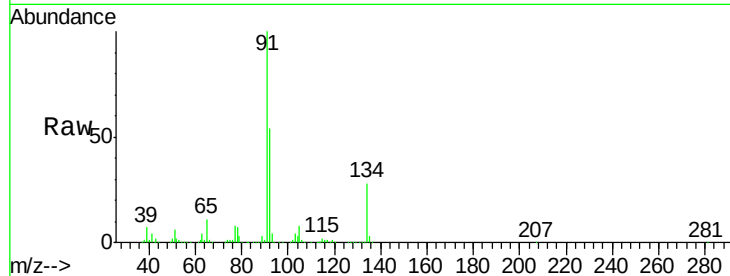
#89
n-Butylbenzene
Concen: 54.605 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.8	80.4
134	27.5	14.0	41.9

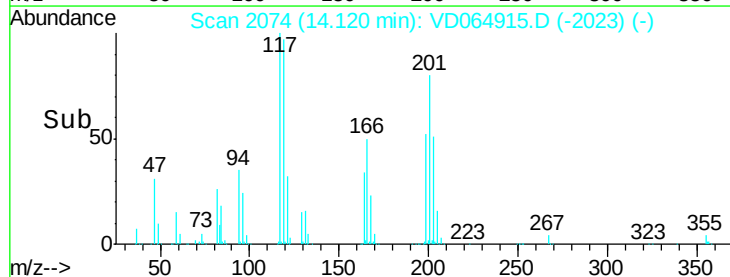
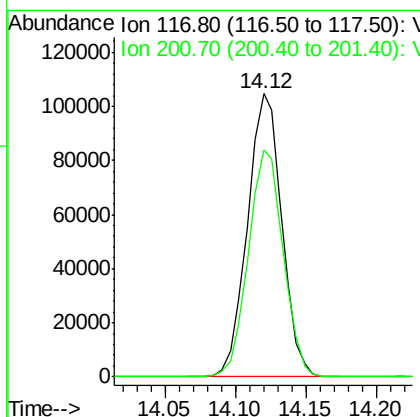
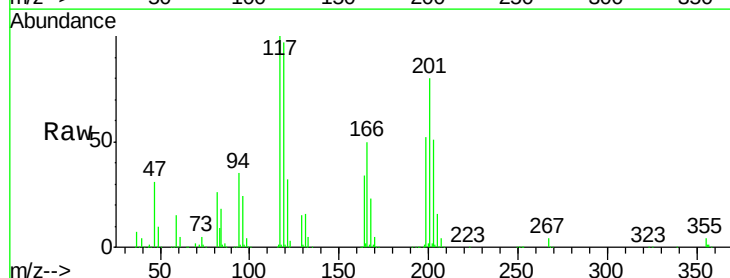
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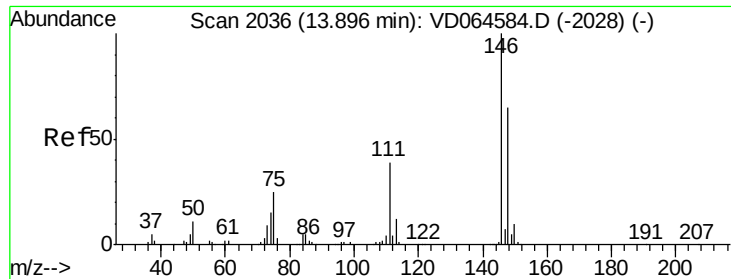
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#90
Hexachloroethane
Concen: 54.037 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.4	44.0	131.8





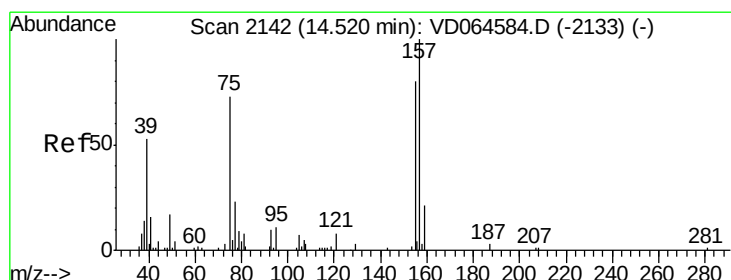
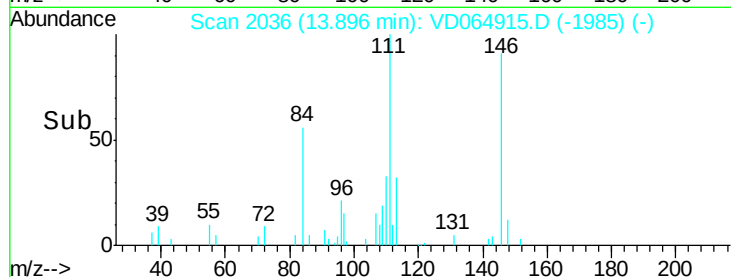
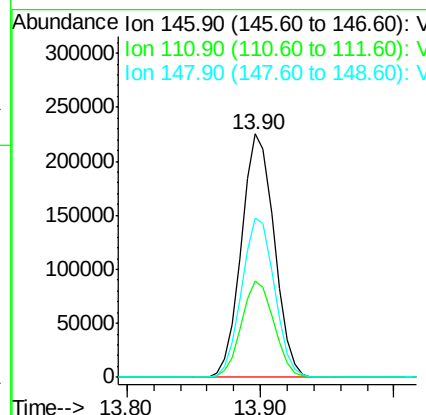
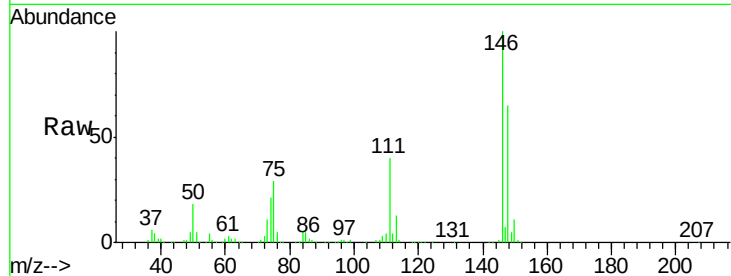
#91
 1,2-Dichlorobenzene
 Concen: 51.788 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.3	57.9
148	65.4	31.9	95.5

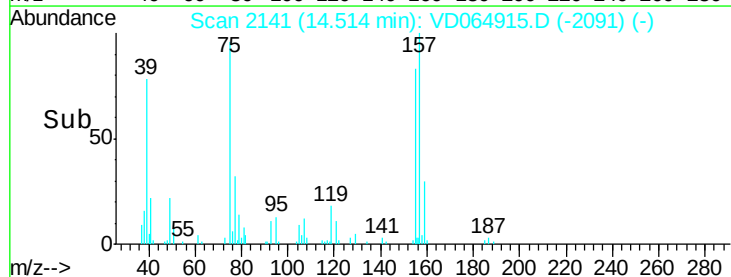
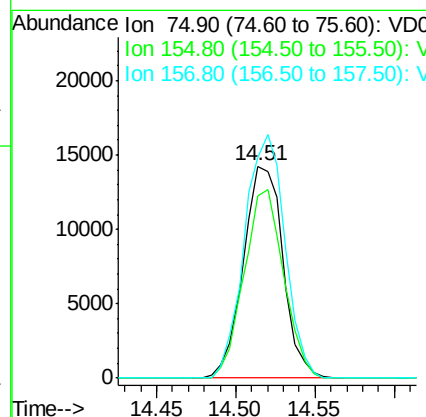
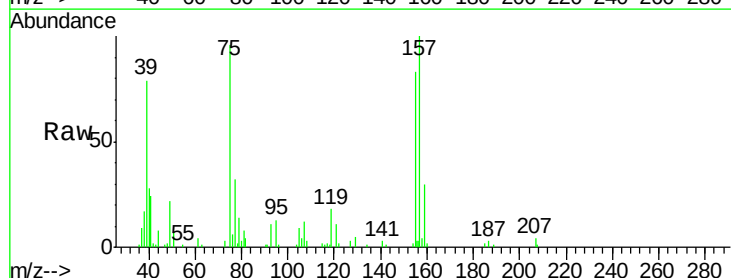
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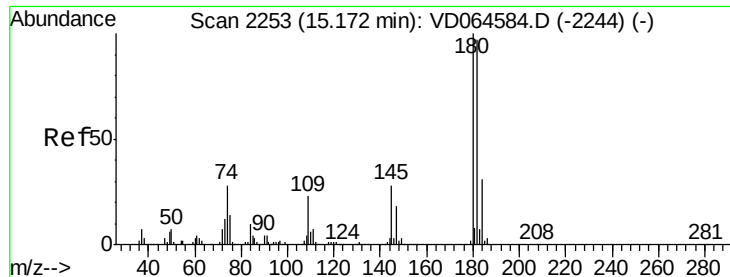
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.628 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.5	48.0	144.0
157	116.9	64.1	192.3





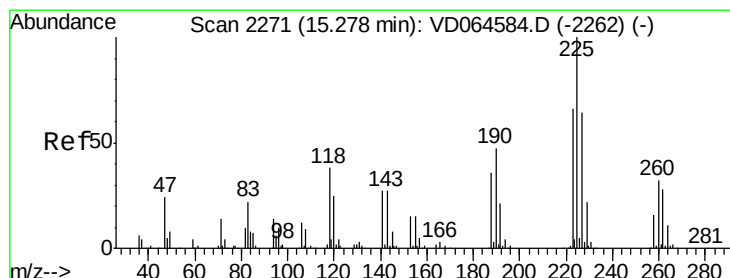
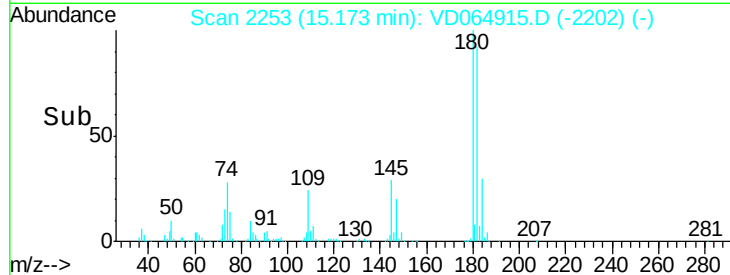
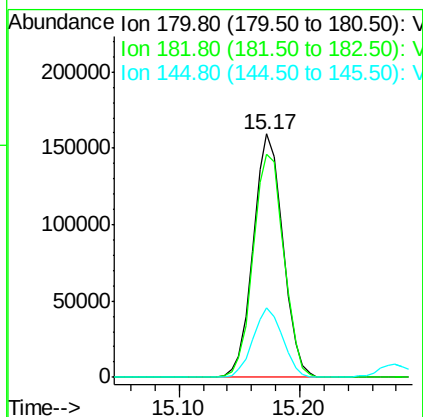
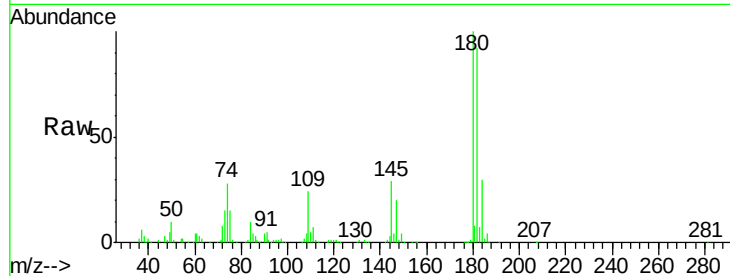
#93
 1,2,4-Trichlorobenzene
 Concen: 50.149 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	272972		
182	94.6	48.0	144.2	
145	28.7	13.8	41.4	

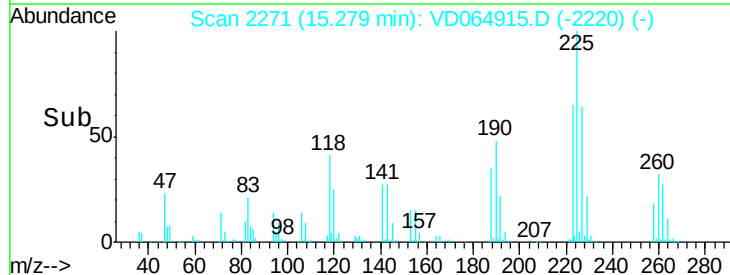
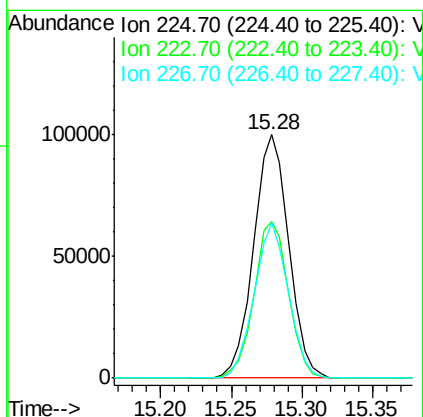
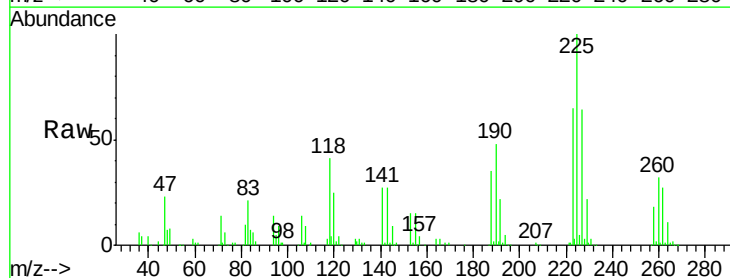
Manual Integrations
 APPROVED

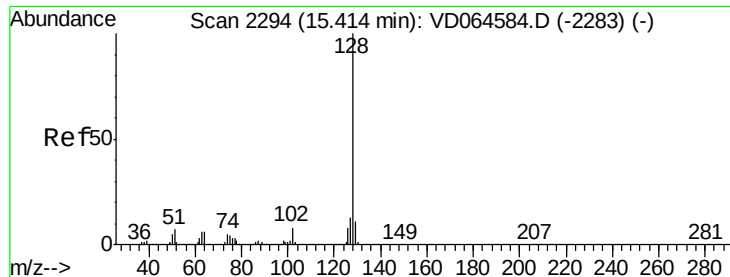
MMDadoda
 1/23/2020 11:13:39 AM



#94
 Hexachlorobutadiene
 Concen: 50.966 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064915.D
 Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	174569		
223	63.0	31.1	93.2	
227	61.8	30.9	92.7	





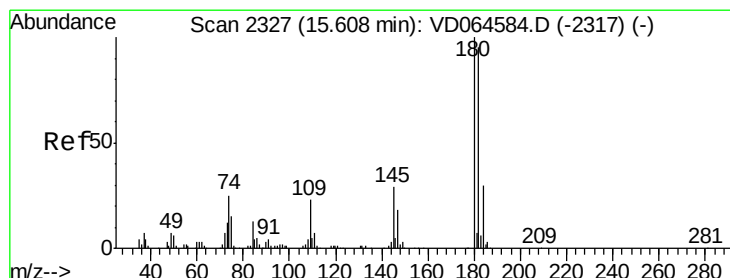
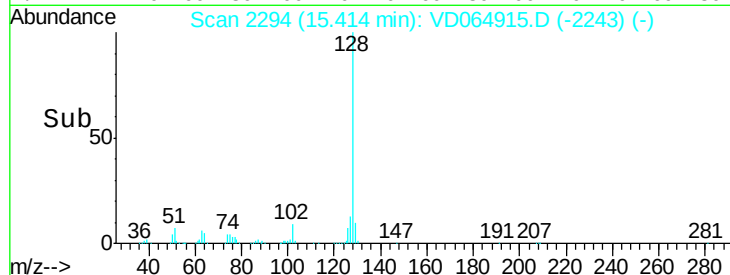
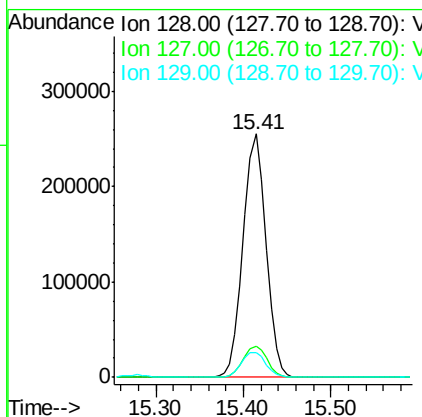
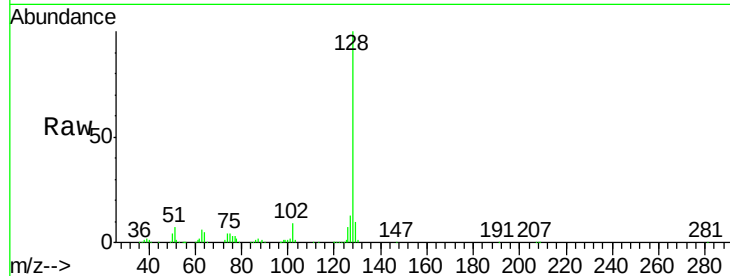
#95
Naphthalene
Concen: 52.270 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	450106		
127	13.4	10.3	15.5	
129	10.7	8.5	12.7	

Manual Integrations
APPROVED

MMDadoda
1/23/2020 11:13:39 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.075 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064915.D
Acq: 22 Jan 2020 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	232689		
182	95.1	47.9	143.7	
145	30.0	14.9	44.7	

