

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020320\
 Data File : VD065047.D
 Acq On : 03 Feb 2020 11:52
 Operator : VA/SY
 Sample : VD0203SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/4/2020 11:21:14 AM

Quant Time: Feb 03 12:59:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	484434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	698623	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	621571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	296602	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	237603	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
35) Dibromofluoromethane	7.92	113	233355	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	
50) Toluene-d8	10.34	98	907064	53.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.06%	
62) 4-Bromofluorobenzene	12.64	95	282370	54.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	81774	22.407	ug/l	95
3) Chloromethane	2.21	50	113491	21.218	ug/l	96
4) Vinyl Chloride	2.35	62	125534	20.434	ug/l	96
5) Bromomethane	2.76	94	83009	20.087	ug/l	96
6) Chloroethane	2.92	64	82608	20.396	ug/l	97
7) Trichlorofluoromethane	3.27	101	197055	20.769	ug/l	99
8) Diethyl Ether	3.71	74	44602	20.824	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.09	101	99286	22.493	ug/l	97
10) Methyl Iodide	4.29	142	98512	21.025	ug/l	98
11) Tert butyl alcohol	5.25	59	27646m	107.663	ug/l	
12) 1,1-Dichloroethene	4.06	96	93602	22.197	ug/l	98
13) Acrolein	3.92	56	24698	76.724	ug/l	94
14) Allyl chloride	4.71	41	151230	22.486	ug/l	97
15) Acrylonitrile	5.43	53	99687	107.478	ug/l	99
16) Acetone	4.17	43	101441	91.420	ug/l	98
17) Carbon Disulfide	4.40	76	298504	21.509	ug/l	98
18) Methyl Acetate	4.72	43	50307	23.116	ug/l	100
19) Methyl tert-butyl Ether	5.49	73	198744	21.093	ug/l	92
20) Methylene Chloride	4.96	84	129264	25.467	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	108310	22.293	ug/l	98
22) Diisopropyl ether	6.37	45	297659	22.208	ug/l	96
23) Vinyl Acetate	6.31	43	806471	102.767	ug/l	99
24) 1,1-Dichloroethane	6.27	63	184758	22.451	ug/l	96
25) 2-Butanone	7.23	43	128960	102.725	ug/l	95
26) 2,2-Dichloropropane	7.21	77	167773	22.476	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	112030	21.604	ug/l	97
28) Bromochloromethane	7.56	49	57929	17.601	ug/l	100
29) Tetrahydrofuran	7.57	42	81521	105.246	ug/l	97
30) Chloroform	7.71	83	186079	21.874	ug/l	98
31) Cyclohexane	7.98	56	171113	21.136	ug/l #	91
32) 1,1,1-Trichloroethane	7.90	97	179260	22.651	ug/l	100
36) 1,1-Dichloropropene	8.11	75	150745	22.377	ug/l	99
37) Ethyl Acetate	7.30	43	61097	21.956	ug/l	99
38) Carbon Tetrachloride	8.10	117	157100	22.063	ug/l	97

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 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	173412	22.018	ug/l	94
40) Benzene	8.36	78	416289	22.437	ug/l	98
41) Methacrylonitrile	7.53	41	32071	21.395	ug/l	89
42) 1,2-Dichloroethane	8.43	62	123520	22.349	ug/l	100
43) Isopropyl Acetate	8.46	43	110094	20.829	ug/l	99
44) Trichloroethene	9.11	130	116726	22.479	ug/l	99
45) 1,2-Dichloropropane	9.39	63	102320	22.748	ug/l	99
46) Dibromomethane	9.48	93	55133	22.452	ug/l	94
47) Bromodichloromethane	9.67	83	143643	22.480	ug/l #	96
48) Methyl methacrylate	9.46	41	50423	20.730	ug/l	94
49) 1,4-Dioxane	9.47	88	11494	403.579	ug/l #	85
51) 4-Methyl-2-Pentanone	10.23	43	279058	105.512	ug/l	98
52) Toluene	10.41	92	267076	22.327	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	131721	21.641	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	154836	21.727	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	73664	22.270	ug/l	96
56) Ethyl methacrylate	10.67	69	83549	21.122	ug/l	96
57) 1,3-Dichloropropane	10.95	76	122931	21.668	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	128232	97.581	ug/l	97
59) 2-Hexanone	10.99	43	187564	102.814	ug/l	99
60) Dibromochloromethane	11.14	129	96105	21.738	ug/l	100
61) 1,2-Dibromoethane	11.26	107	68881	21.627	ug/l	97
64) Tetrachloroethene	10.88	164	101098	22.508	ug/l	96
65) Chlorobenzene	11.68	112	279327	22.133	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	102820	21.663	ug/l	99
67) Ethyl Benzene	11.75	91	499404	22.290	ug/l	99
68) m/p-Xylenes	11.86	106	383504	44.457	ug/l	99
69) o-Xylene	12.18	106	168622	22.025	ug/l	97
70) Styrene	12.20	104	296340	21.729	ug/l	98
71) Bromoform	12.37	173	57683	21.863	ug/l #	97
73) Isopropylbenzene	12.48	105	464279	22.902	ug/l	99
74) N-amyl acetate	12.30	43	97760	21.550	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	75135	22.052	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	54618m	22.186	ug/l	
77) Bromobenzene	12.77	156	113095	22.801	ug/l	100
78) n-propylbenzene	12.83	91	561121	23.275	ug/l	99
79) 2-Chlorotoluene	12.91	91	307085	23.219	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	381423	22.959	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	25081	21.754	ug/l	98
82) 4-Chlorotoluene	13.01	91	320140	22.825	ug/l	100
83) tert-Butylbenzene	13.23	119	323849	22.971	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	386717	22.979	ug/l	99
85) sec-Butylbenzene	13.41	105	455830	22.835	ug/l	100
86) p-Isopropyltoluene	13.53	119	419380	22.451	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	211984	22.274	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	215076	22.769	ug/l	99
89) n-Butylbenzene	13.86	91	387773	22.747	ug/l	99
90) Hexachloroethane	14.12	117	82754	22.973	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	185851	23.002	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.52	75	11143	20.436	ug/l	92

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ClientSampleId :
VD0203SBSD01

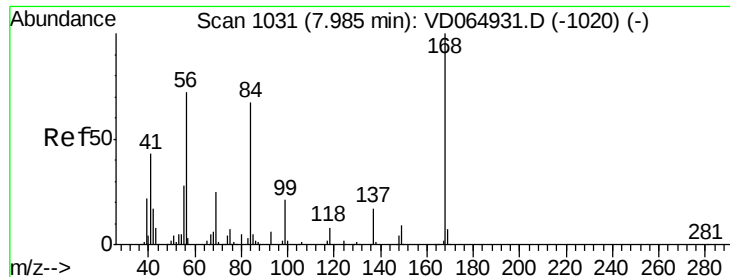
Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:14 AM

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	123358	22.069	ug/l	97
94) Hexachlorobutadiene	15.28	225	77289	21.860	ug/l	97
95) Naphthalene	15.41	128	189613	21.019	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	106940	22.065	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion:168 Resp: 484434

Ion Ratio Lower Upper

168 100

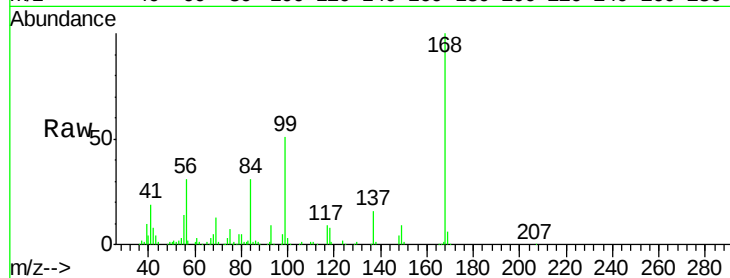
99 51.1 43.3 64.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

150000

100000

50000

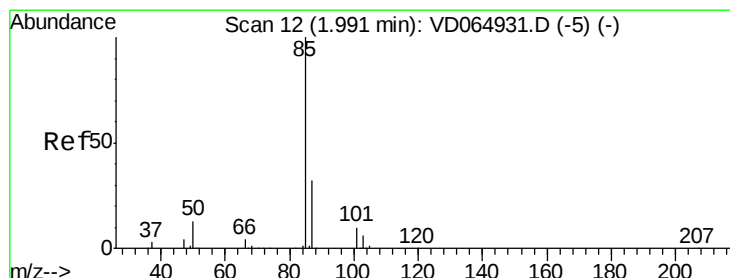
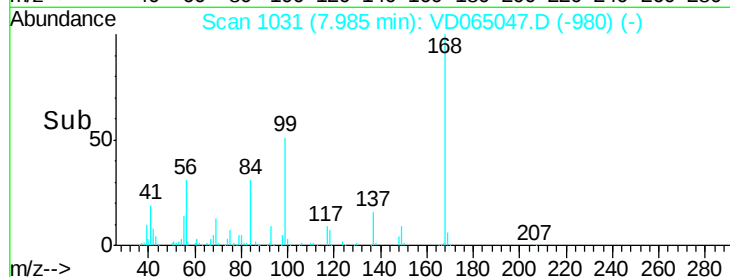
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 22.407 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065047.D

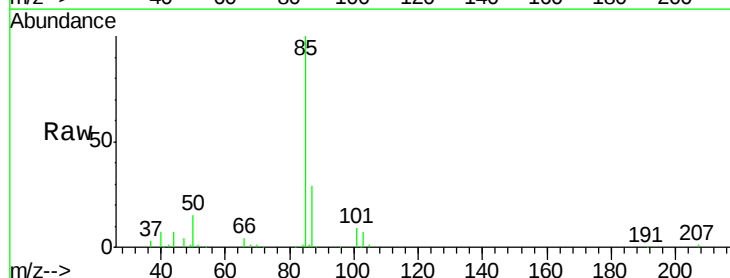
Acq: 03 Feb 2020 11:52

Tgt Ion: 85 Resp: 81774

Ion Ratio Lower Upper

85 100

87 28.7 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

40000

20000

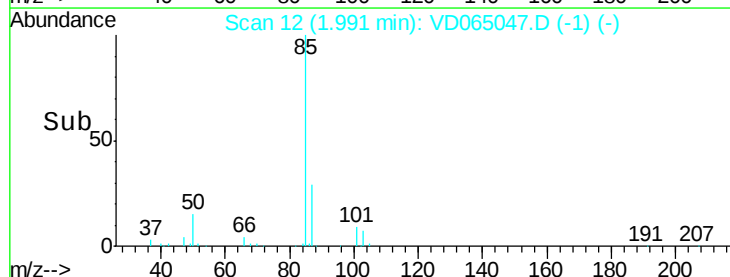
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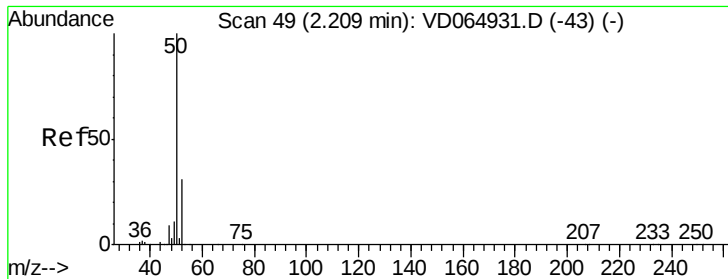
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 21.218 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 50 Resp: 113491

Ion Ratio Lower Upper

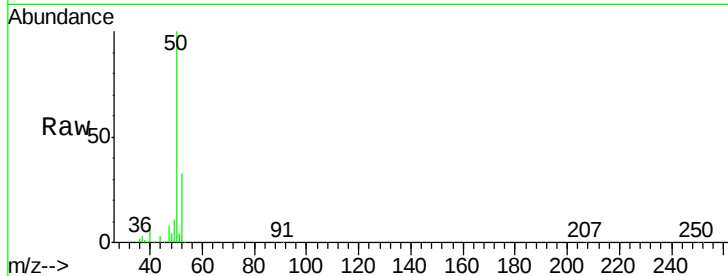
50 100

52 32.9 24.6 36.8

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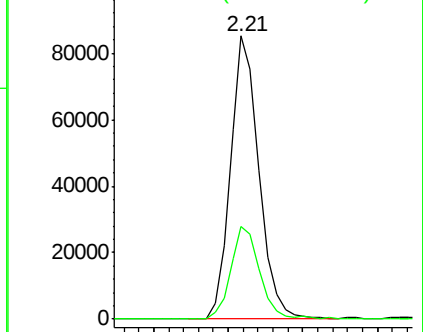
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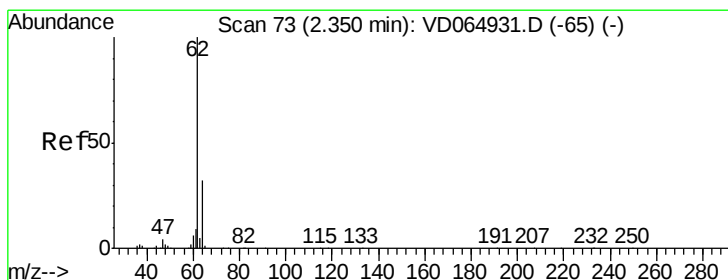
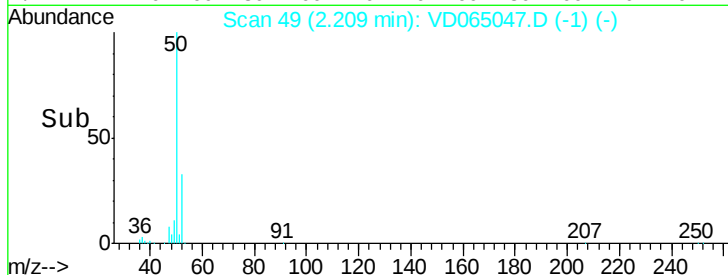


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->



#4

Vinyl Chloride

Concen: 20.434 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065047.D

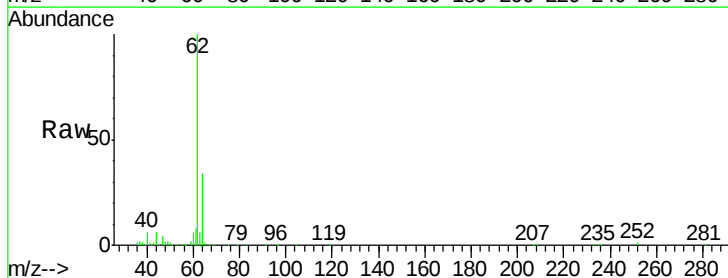
Acq: 03 Feb 2020 11:52

Tgt Ion: 62 Resp: 125534

Ion Ratio Lower Upper

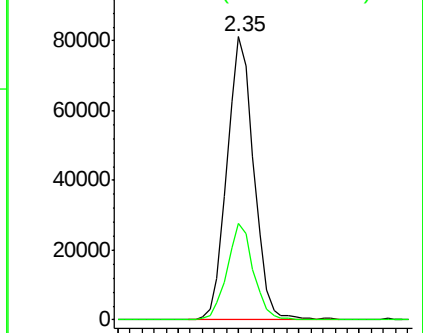
62 100

64 34.3 25.6 38.4

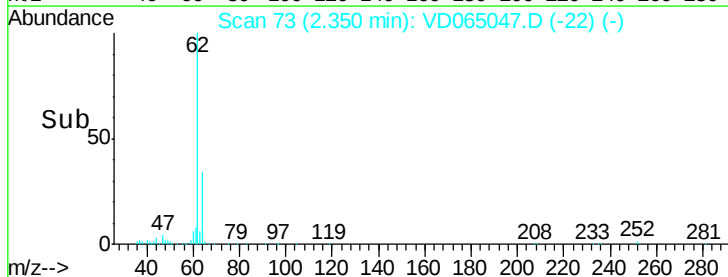


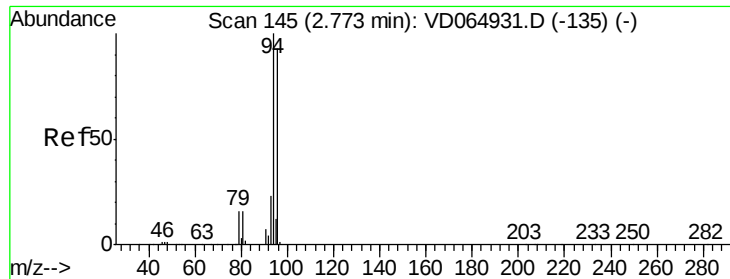
Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC



Time-->





#5

Bromomethane

Concen: 20.087 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 94 Resp: 83009

Ion Ratio Lower Upper

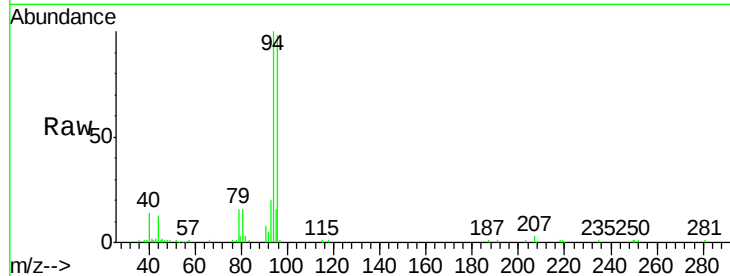
94 100

96 97.1 74.6 111.8

Manual Integrations
APPROVED

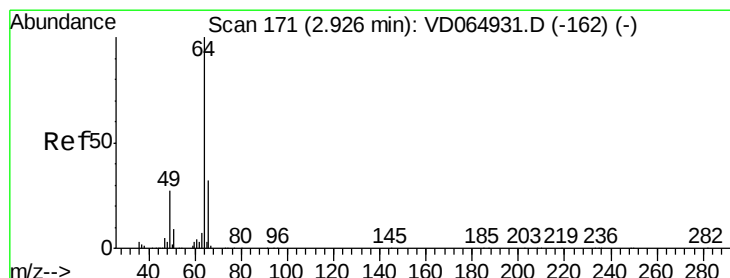
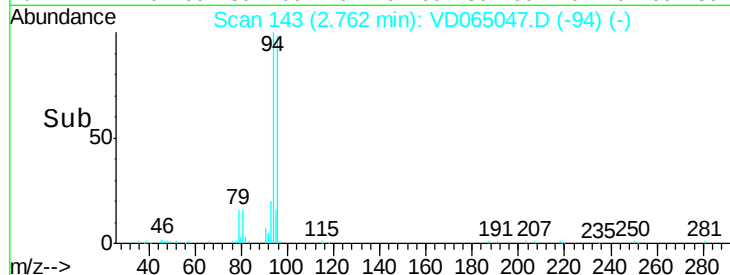
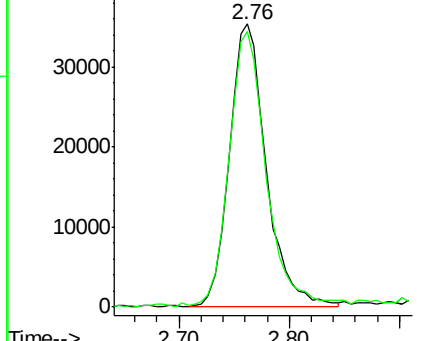
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 20.396 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065047.D

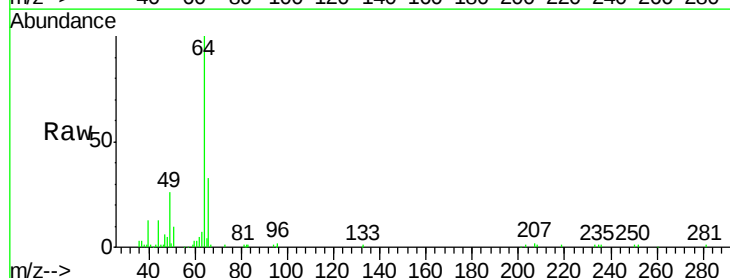
Acq: 03 Feb 2020 11:52

Tgt Ion: 64 Resp: 82608

Ion Ratio Lower Upper

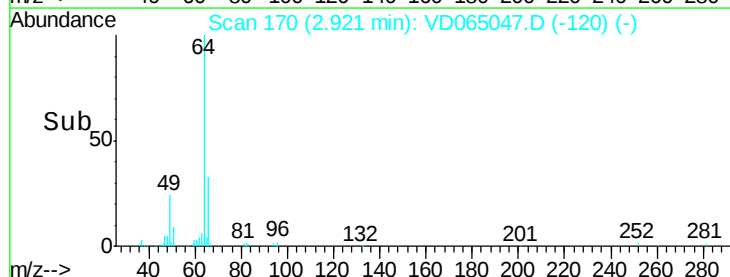
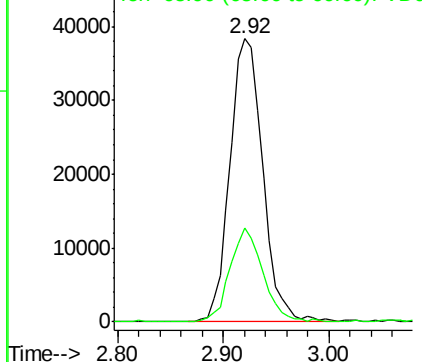
64 100

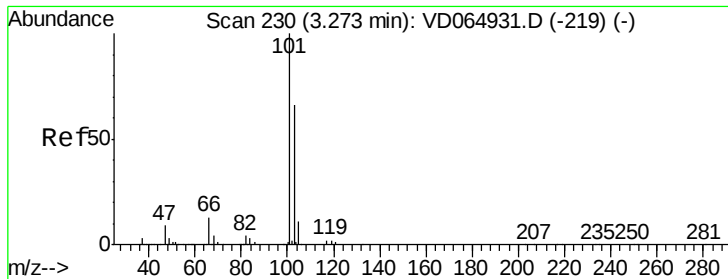
66 33.3 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

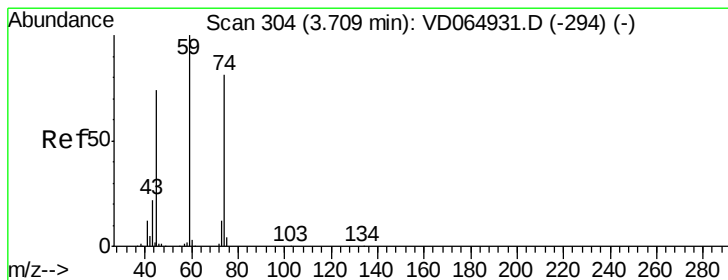
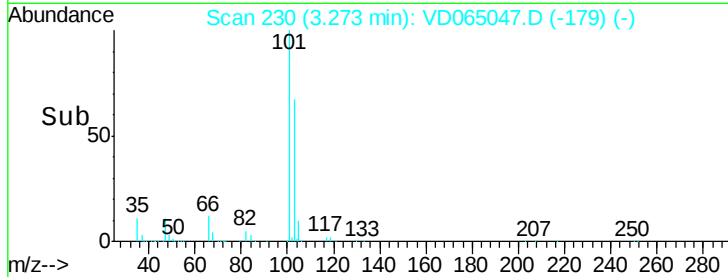
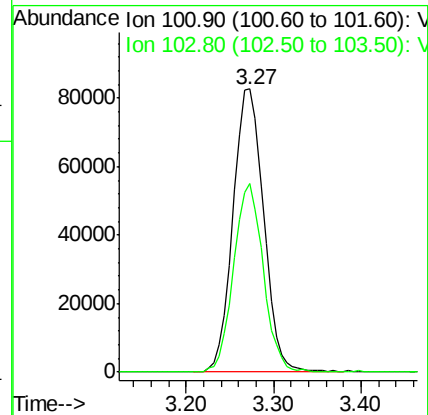
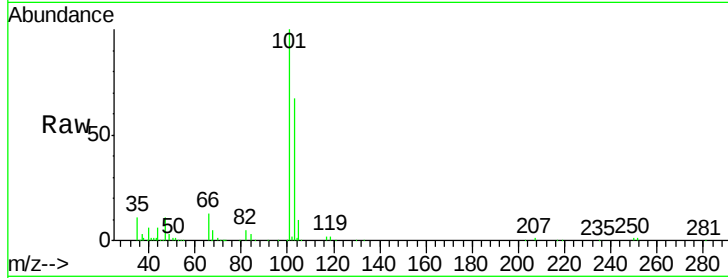
Trichlorofluoromethane
 Concen: 20.769 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
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 VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	197055		
103	66.7	52.5	78.7	

Manual Integrations
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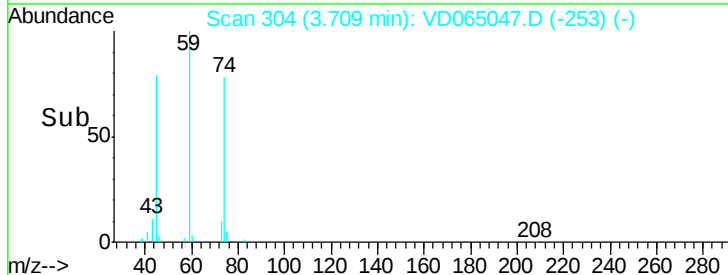
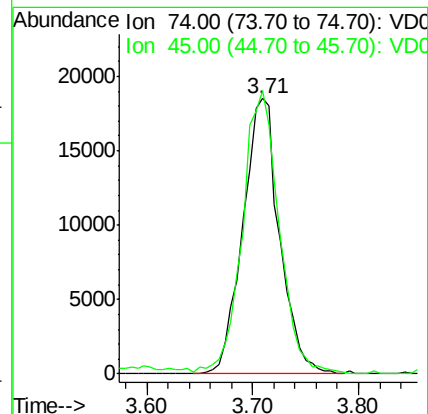
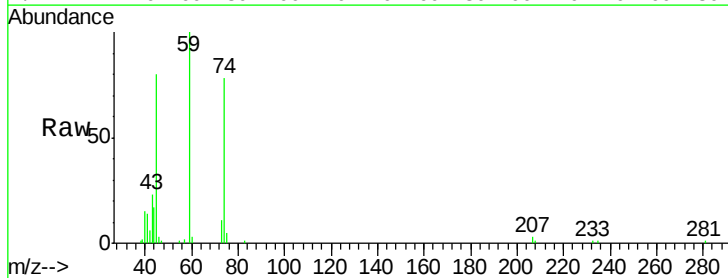
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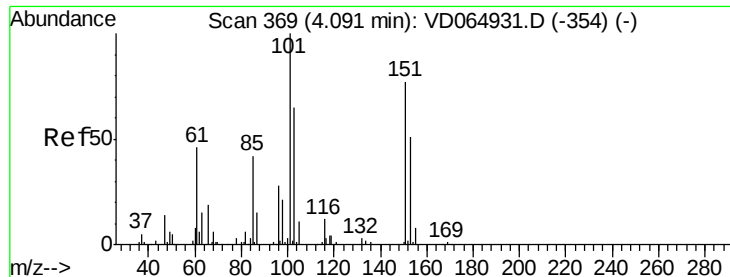


#8

Diethyl Ether
 Concen: 20.824 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	44602		
45	103.2	48.5	145.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.493 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

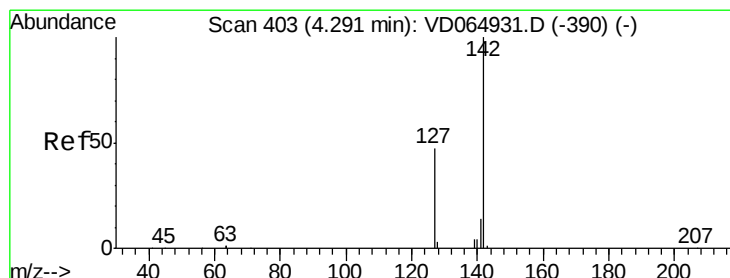
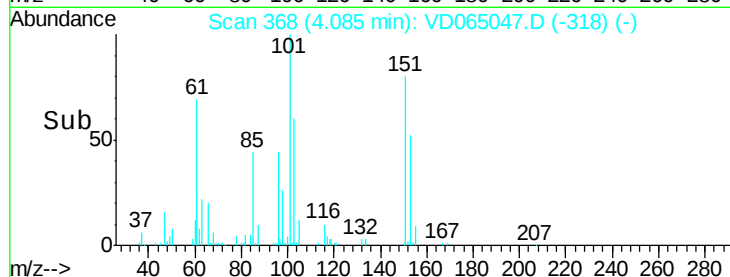
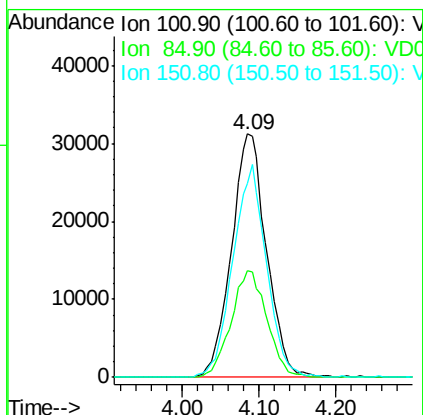
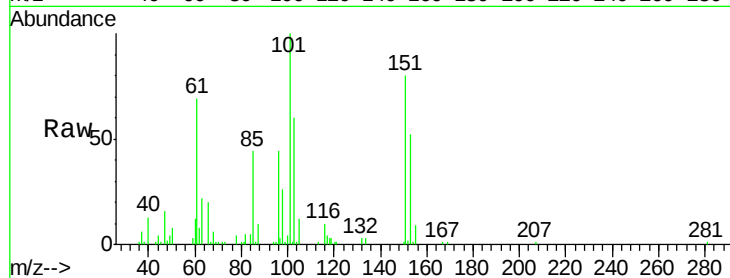
ClientSampleId :

VD0203SBSD01

Tot Ion:	101	Resp:	99286
Ion Ratio	Lower	Upper	
101	100		
85	44.6	35.0	52.4
151	83.8	64.6	96.8

Manual Integrations
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MMDadoda
2/4/2020 11:21:14 AM



#10

Methyl Iodide

Concen: 21.025 ug/l

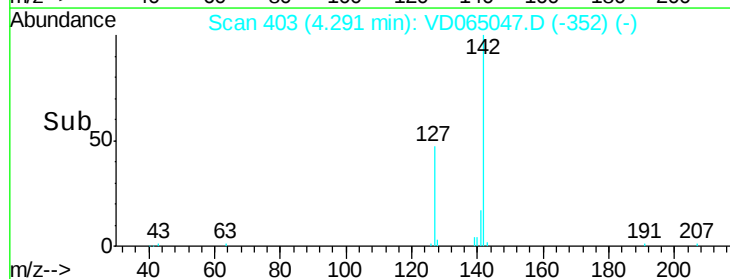
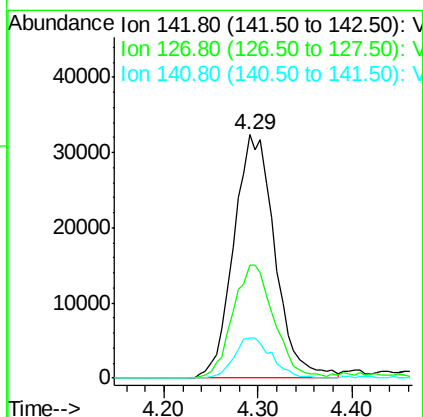
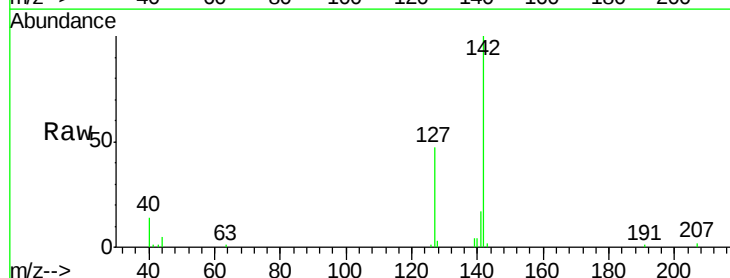
RT: 4.29 min Scan# 403

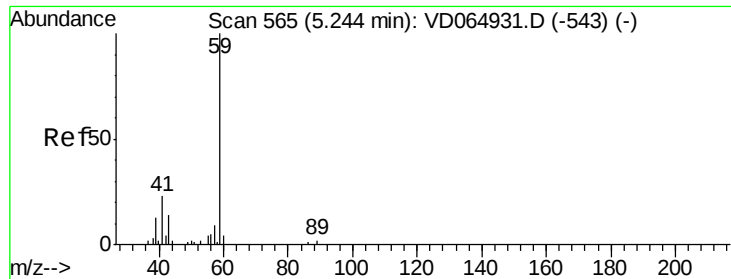
Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	142	Resp:	98512
Ion Ratio	Lower	Upper	
142	100		
127	46.3	36.2	54.2
141	15.2	11.6	17.4





#11

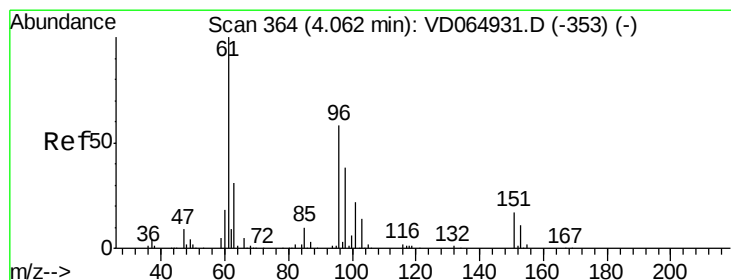
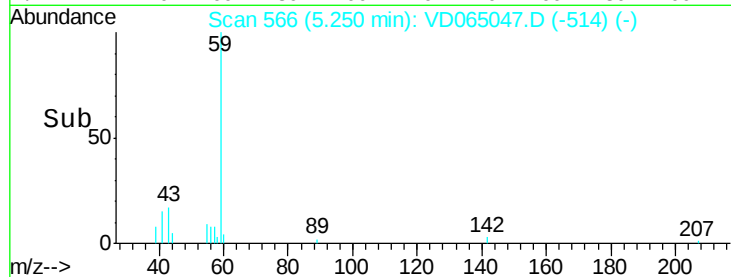
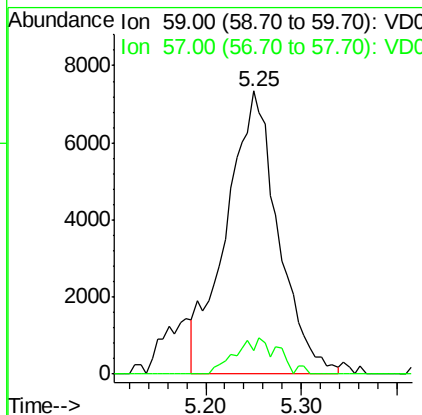
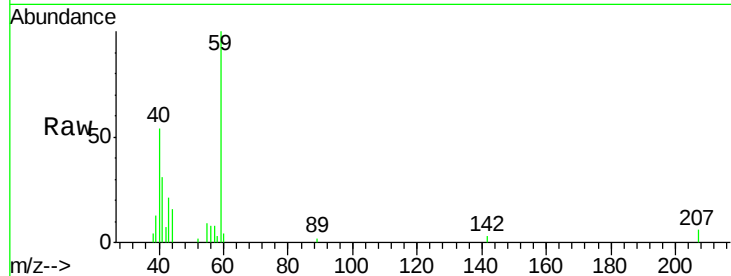
Tert butyl alcohol
 Concen: 107.663 ug/l m
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	59	Resp	27646
Ion Ratio	100	Lower	Upper
57	7.8	7.7	11.5

Manual Integrations
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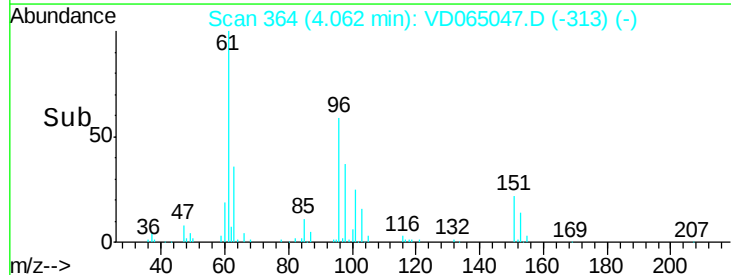
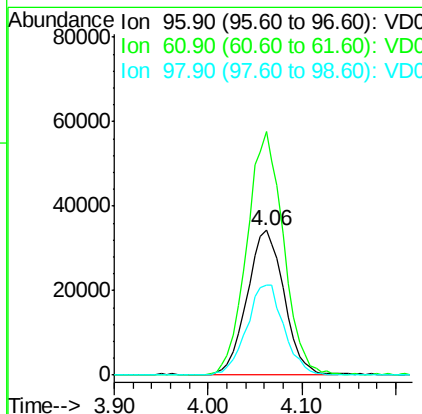
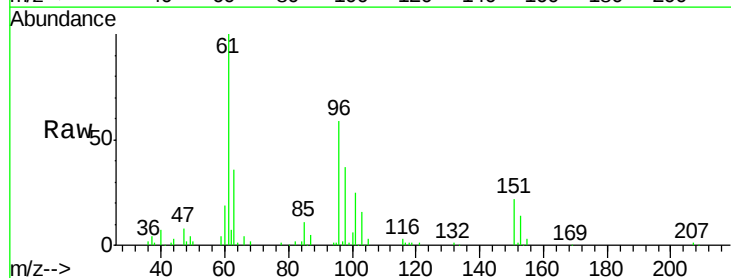
MMDadoda
 2/4/2020 11:21:14 AM

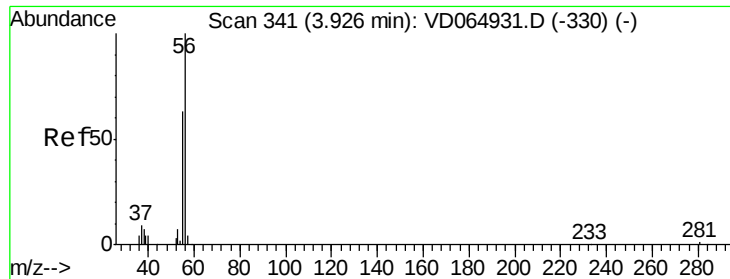


#12

1,1-Dichloroethene
 Concen: 22.197 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	96	Resp	93602
Ion Ratio	100	Lower	Upper
61	168.4	137.0	205.4
98	62.7	52.1	78.1





#13

Acrolein

Concen: 76.724 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 56 Resp: 24698

Ion Ratio Lower Upper

56 100

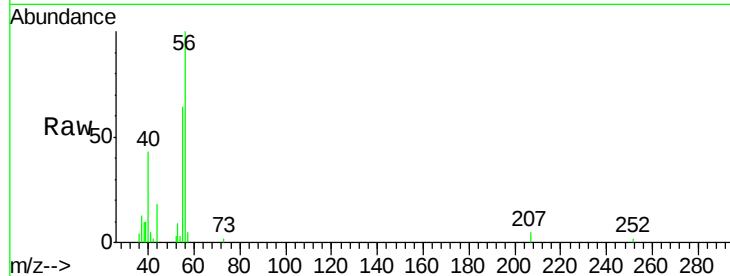
55 69.7 59.7 89.5

Manual Integrations

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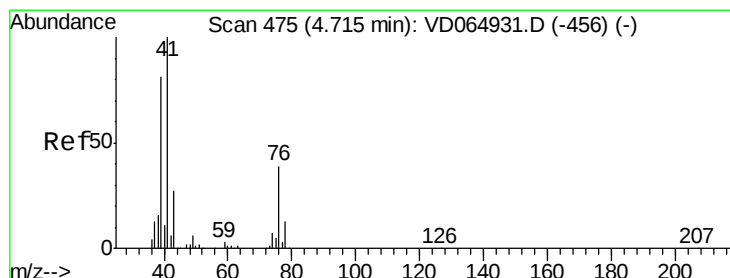
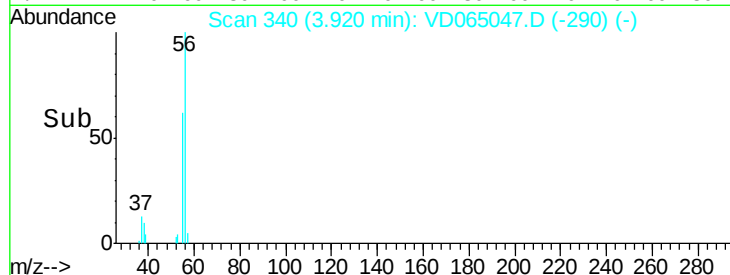
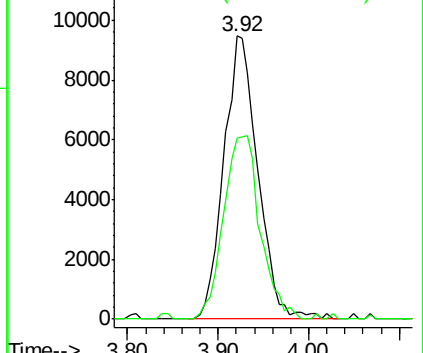
MMDadoda

2/4/2020 11:21:14 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.486 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

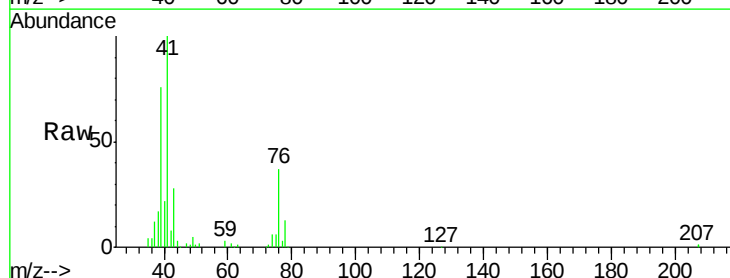
Tgt Ion: 41 Resp: 151230

Ion Ratio Lower Upper

41 100

39 74.3 62.0 93.0

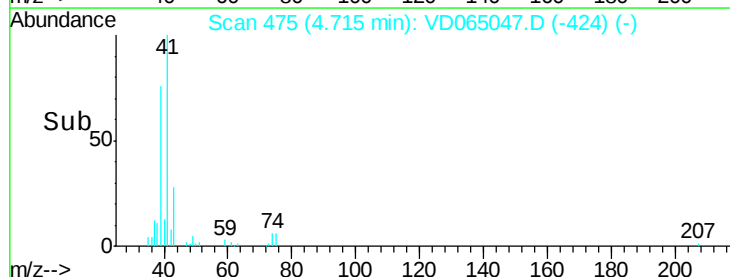
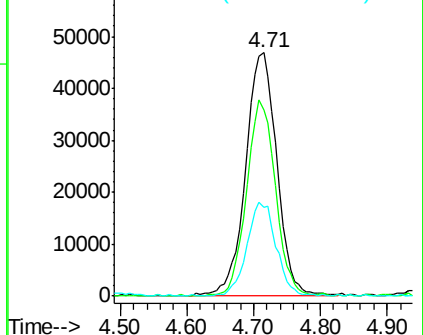
76 35.9 29.3 43.9

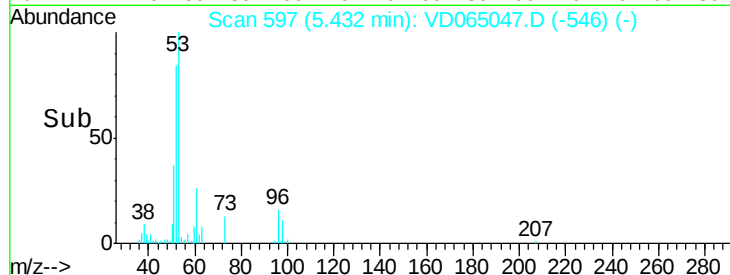
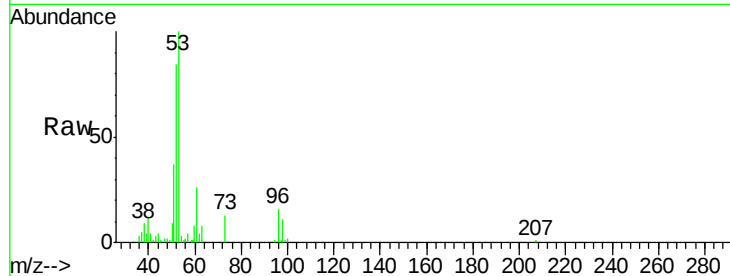
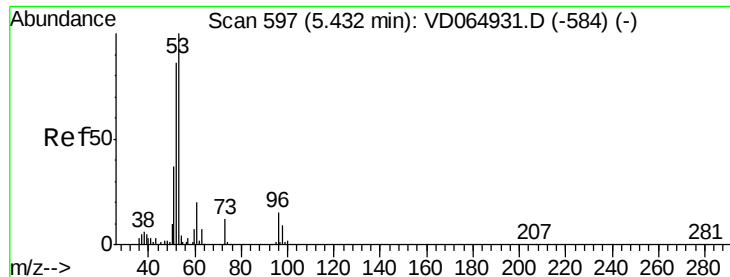


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 107.478 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD065047.D

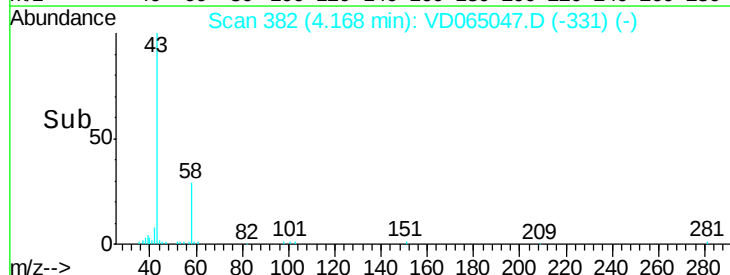
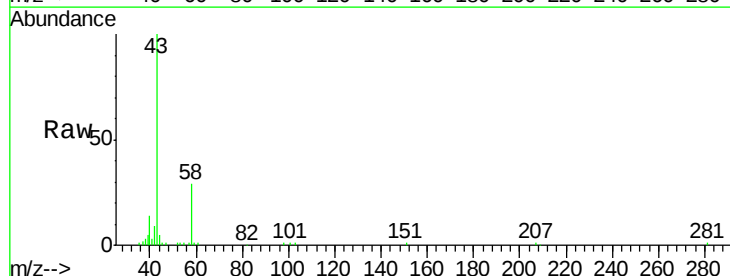
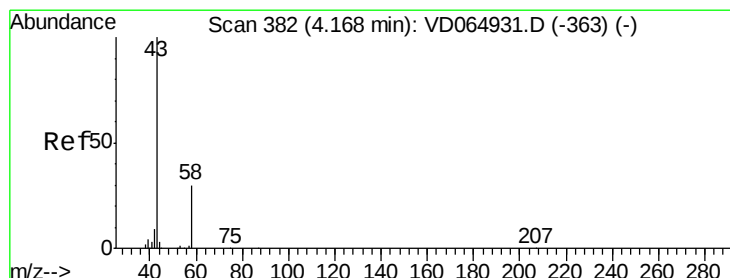
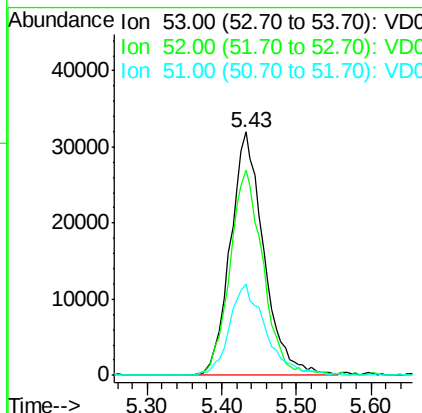
Acq: 03 Feb 2020 11:52

Tot Ion:	53	Resp:	99687
Ion Ratio	Lower	Upper	
53	100		
52	83.4	66.7	100.1
51	40.3	31.1	46.7

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 91.420 ug/l

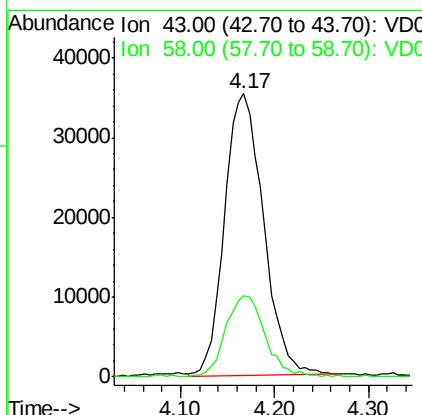
RT: 4.17 min Scan# 382

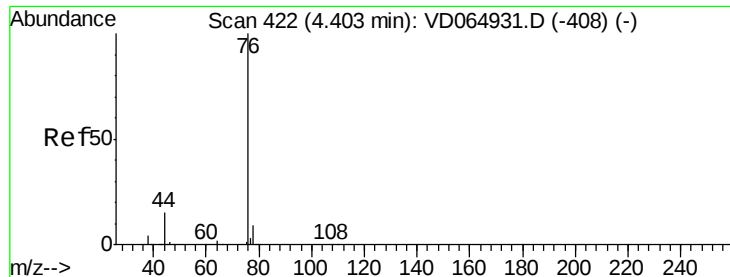
Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	43	Resp:	101441
Ion Ratio	Lower	Upper	
43	100		
58	28.8	23.8	35.8





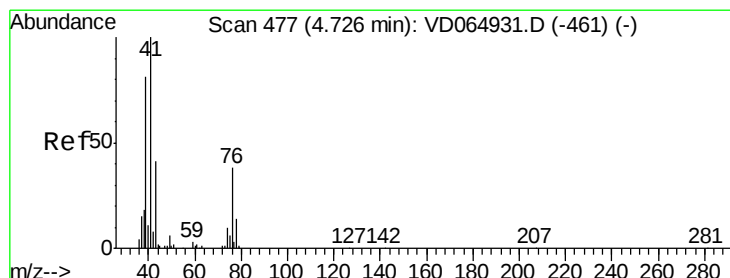
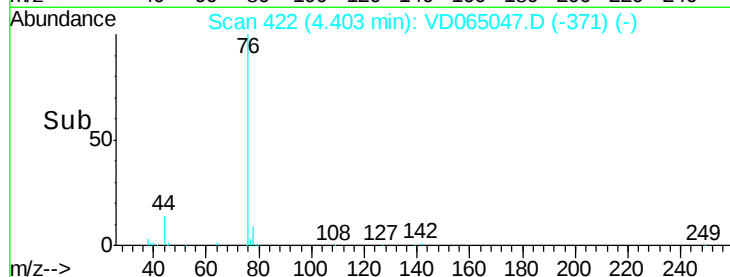
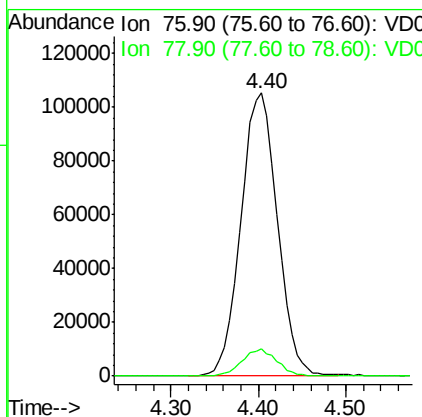
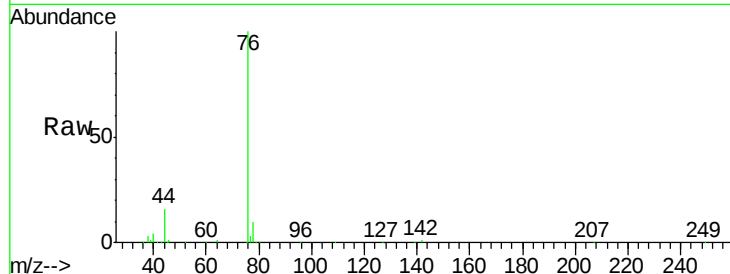
#17
Carbon Disulfide
Concen: 21.509 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.1	10.7

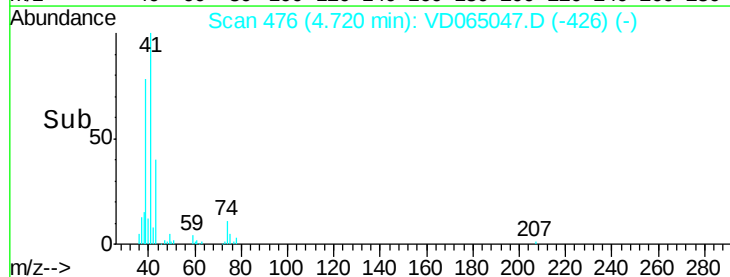
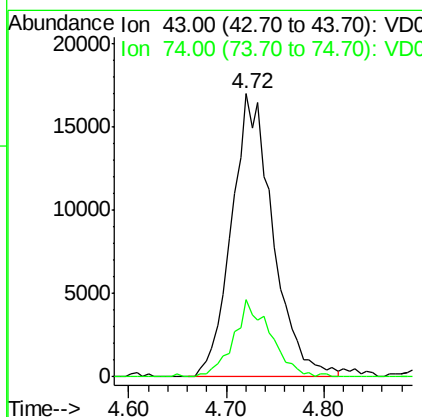
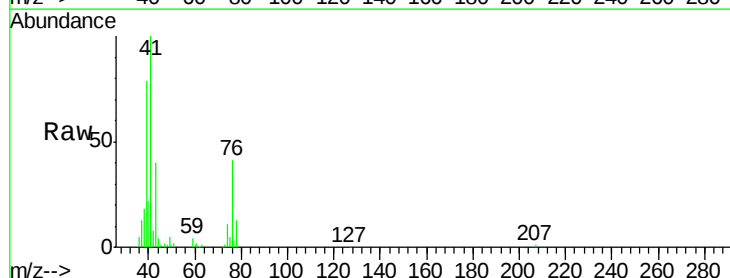
Manual Integrations
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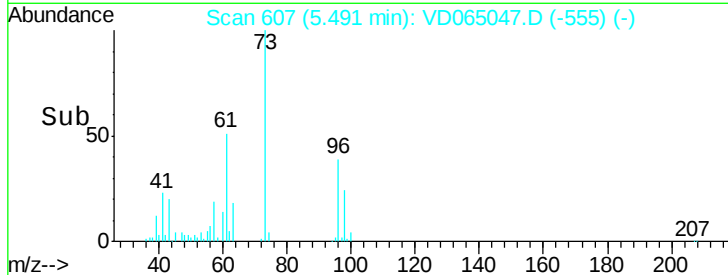
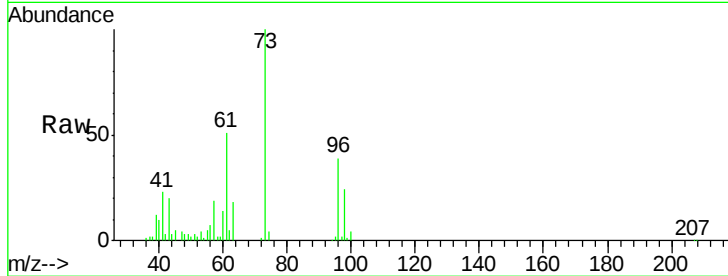
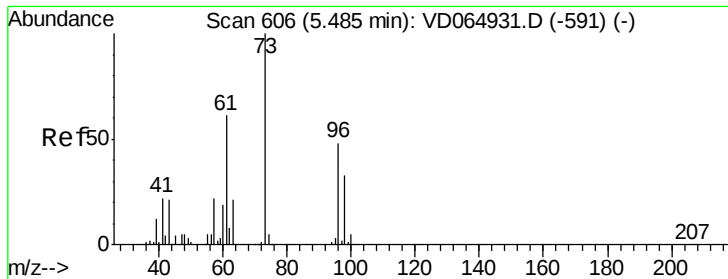
MMDadoda
2/4/2020 11:21:14 AM



#18
Methyl Acetate
Concen: 23.116 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.1	28.7





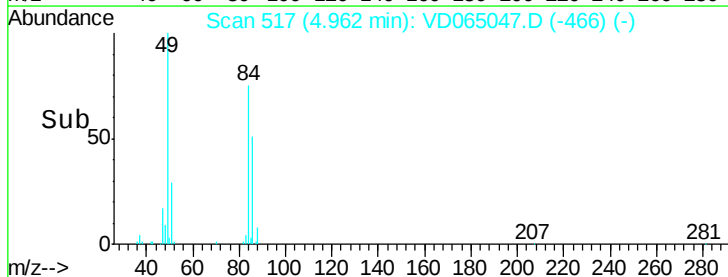
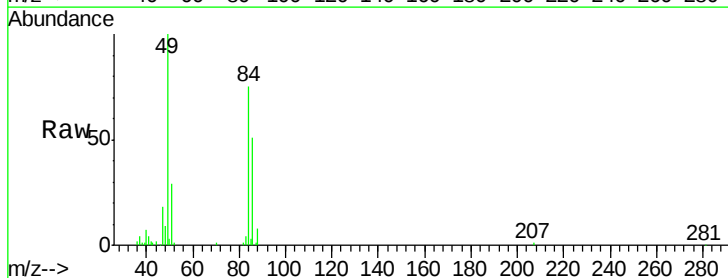
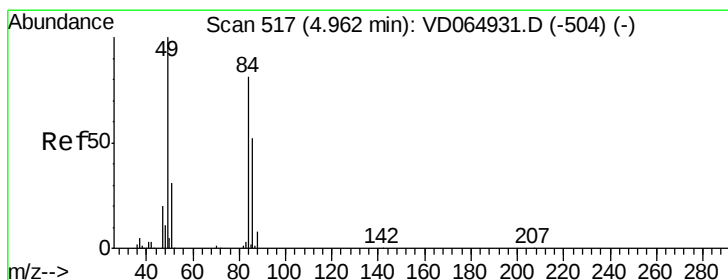
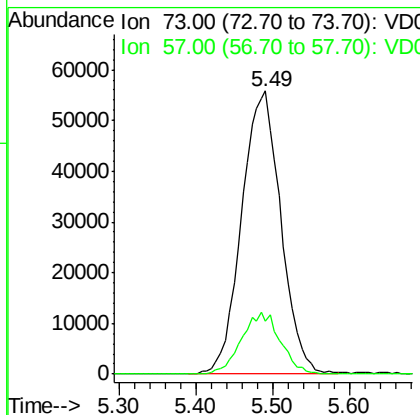
#19
Methyl tert-butyl Ether
Concen: 21.093 ug/l
RT: 5.49 min Scan# 607
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tot Ion: 73 Resp: 198744
Ion Ratio Lower Upper
73 100
57 18.7 17.9 26.9

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

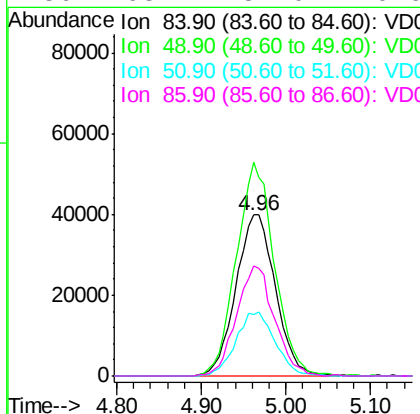
Manual Integrations
APPROVED

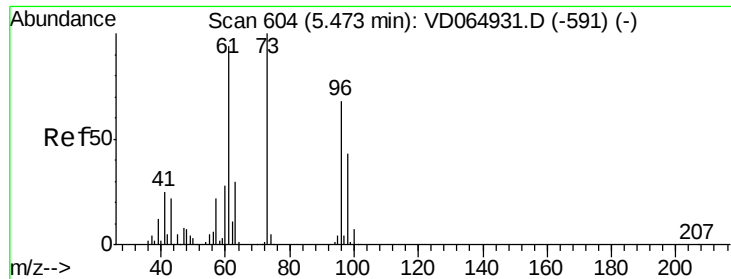
MMDadoda
2/4/2020 11:21:14 AM



#20
Methylene Chloride
Concen: 25.467 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion: 84 Resp: 129264
Ion Ratio Lower Upper
84 100
49 132.8 98.4 147.6
51 38.4 30.8 46.2
86 68.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 22.293 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

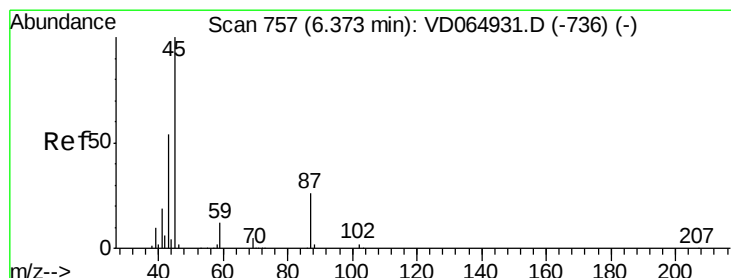
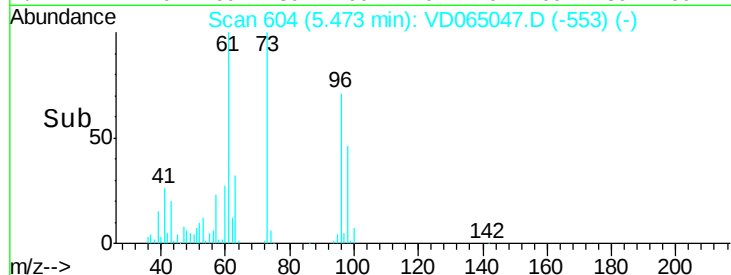
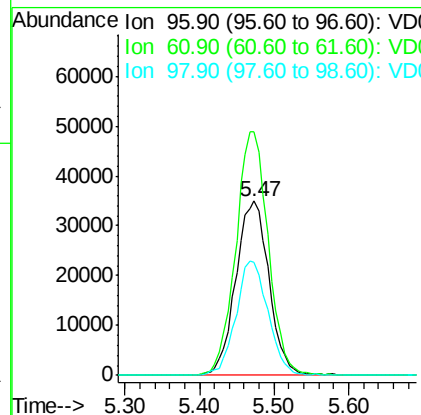
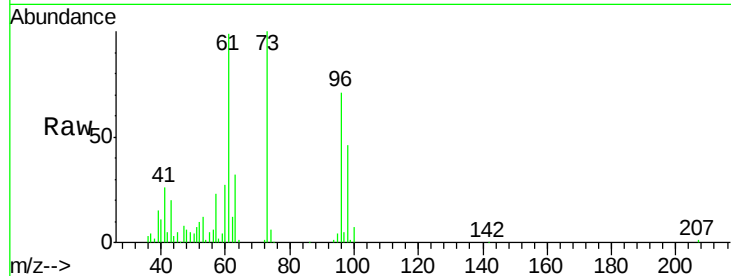
ClientSampleId :

VD0203SBSD01

Tot Ion:	96	Resp:	108310
Ion	Ratio	Lower	Upper
96	100		
61	139.9	110.4	165.6
98	64.7	50.5	75.7

Manual Integrations
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MMDadoda
2/4/2020 11:21:14 AM



#22

Diisopropyl ether

Concen: 22.208 ug/l

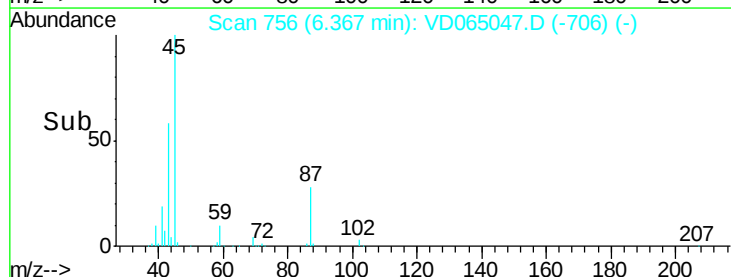
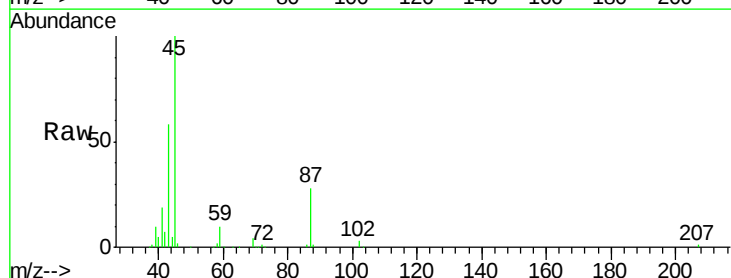
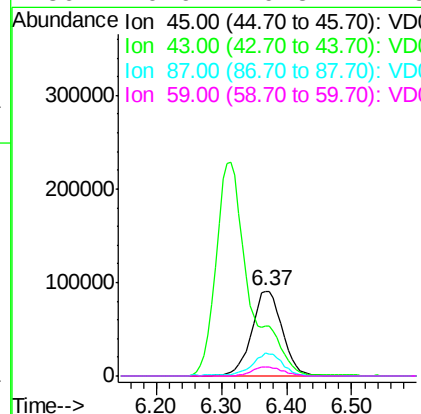
RT: 6.37 min Scan# 756

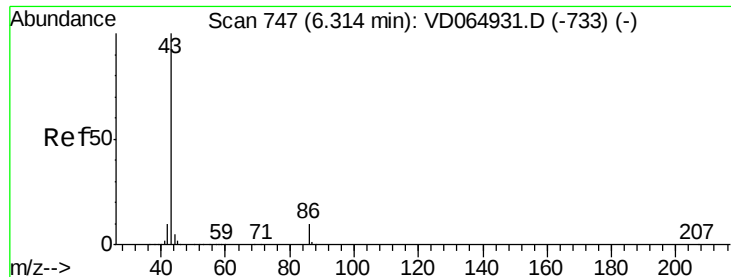
Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	45	Resp:	297659
Ion	Ratio	Lower	Upper
45	100		
43	57.5	43.1	64.7
87	27.6	21.4	32.2
59	9.9	9.5	14.3





#23

Vinyl Acetate

Concen: 102.767 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleID :

VD0203SBS01

Tot Ion: 43 Resp: 806471

Ion Ratio Lower Upper

43 100

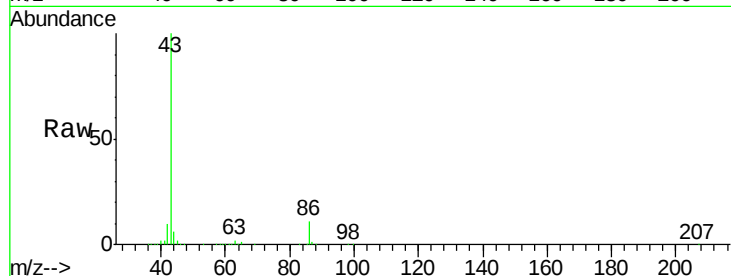
86 10.7 8.3 12.5

Manual Integrations

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MMDadoda

2/4/2020 11:21:14 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

250000

200000

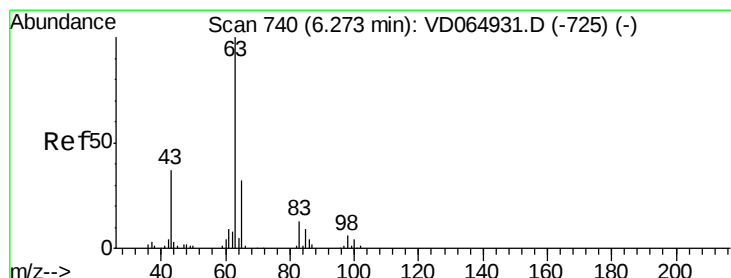
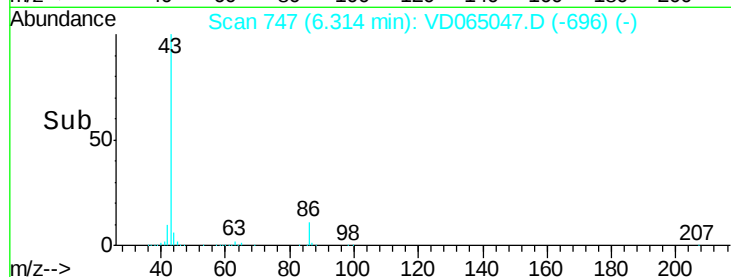
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.451 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

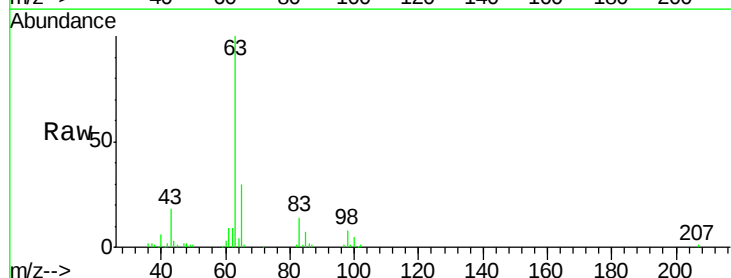
Tgt Ion: 63 Resp: 184758

Ion Ratio Lower Upper

63 100

98 8.1 3.1 9.3

100 4.7 2.3 6.8



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

6.27

80000

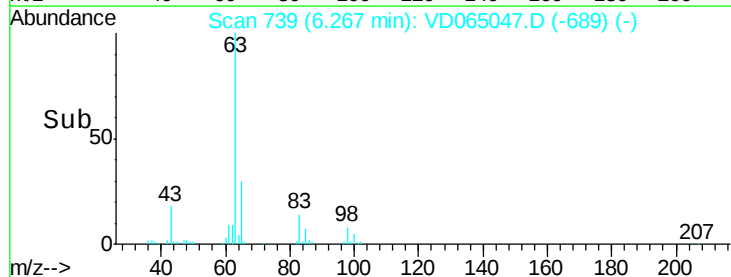
60000

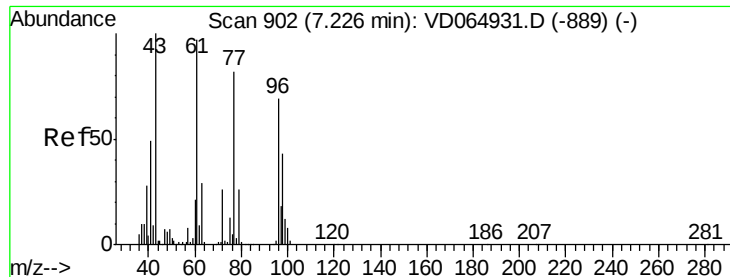
40000

20000

0

Time-->





#25

2-Butanone

Concen: 102.725 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBSD01

Tot Ion: 43 Resp: 128960

Ion Ratio Lower Upper

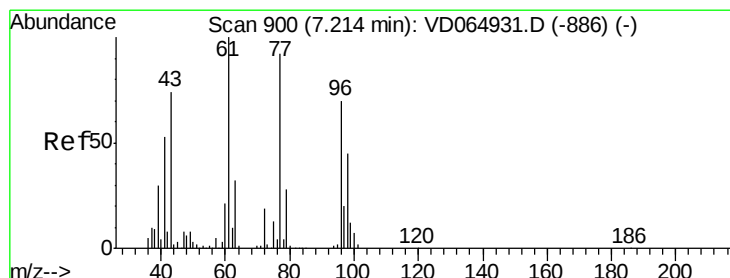
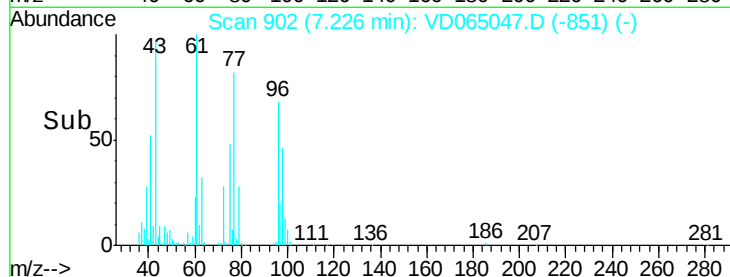
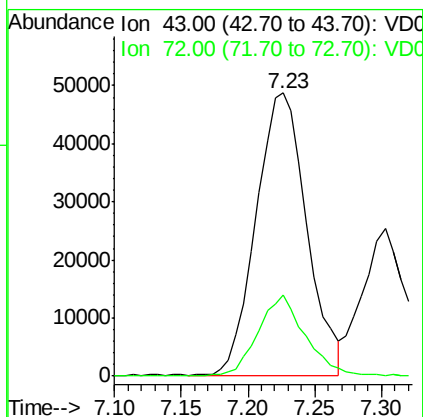
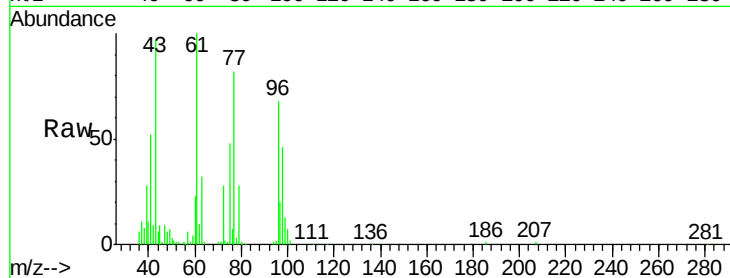
43 100

72 28.5 20.6 31.0

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2/4/2020 11:21:14 AM



#26

2,2-Dichloropropane

Concen: 22.476 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065047.D

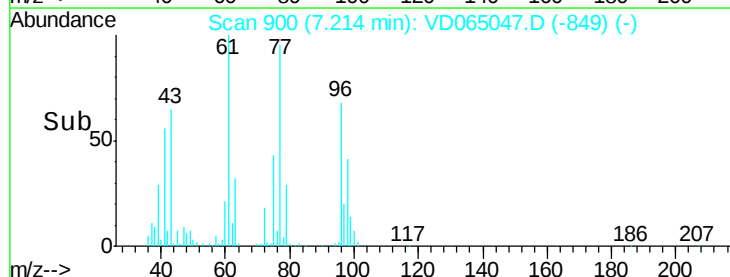
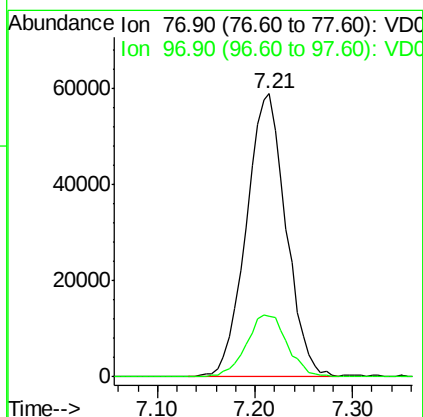
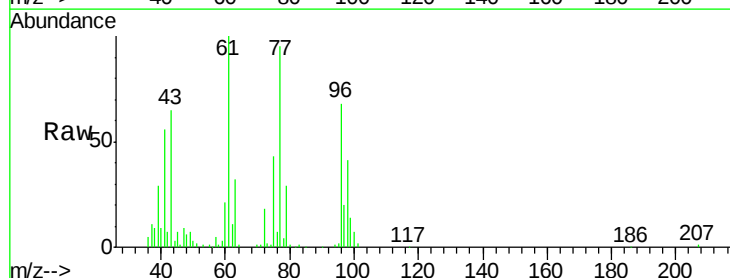
Acq: 03 Feb 2020 11:52

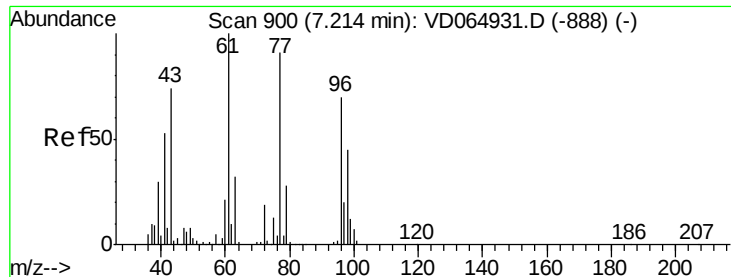
Tgt Ion: 77 Resp: 167773

Ion Ratio Lower Upper

77 100

97 22.5 11.4 34.2





#27

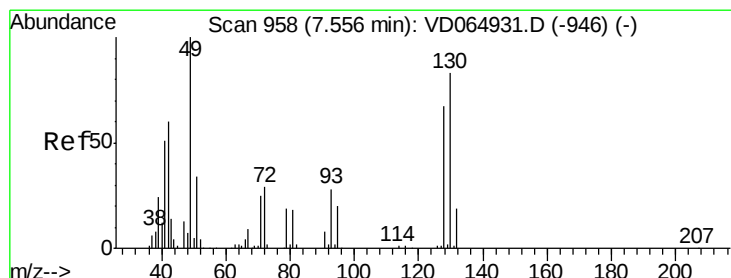
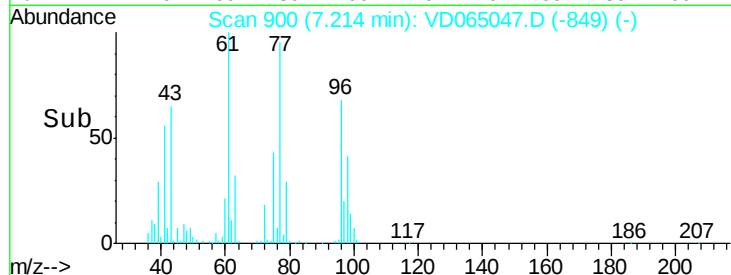
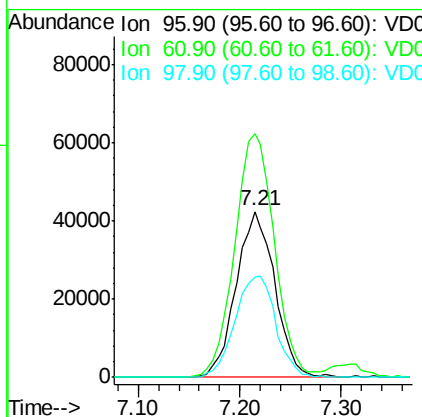
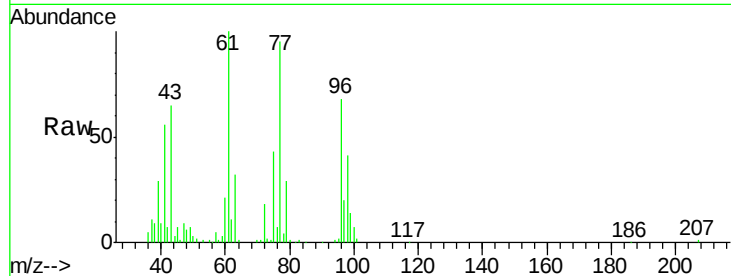
cis-1,2-Dichloroethene
Concen: 21.604 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	112030		
61	151.0	0.0	292.8	
98	64.4	0.0	130.0	

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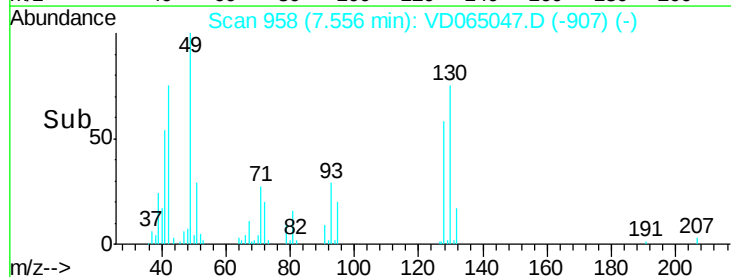
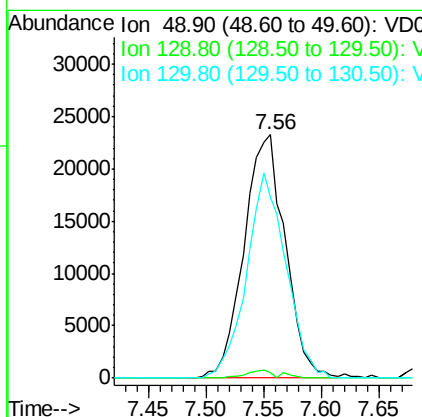
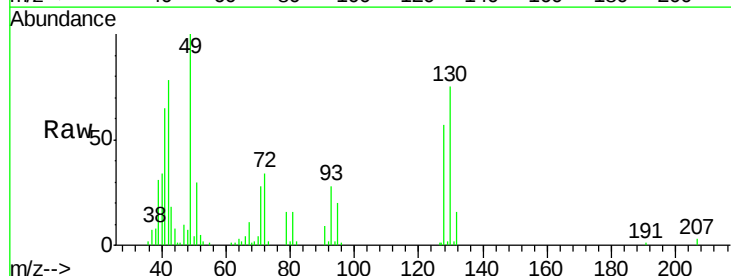
MMDadoda
2/4/2020 11:21:14 AM

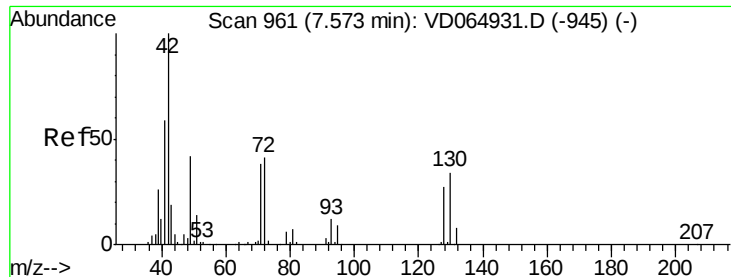


#28

Bromochloromethane
Concen: 17.601 ug/l
RT: 7.56 min Scan# 958
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	57929		
129	1.9	0.0	4.4	
130	80.2	63.8	95.8	





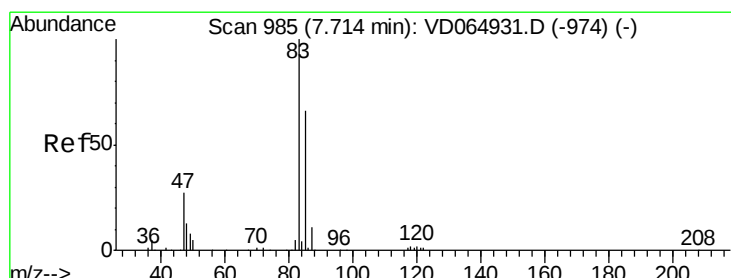
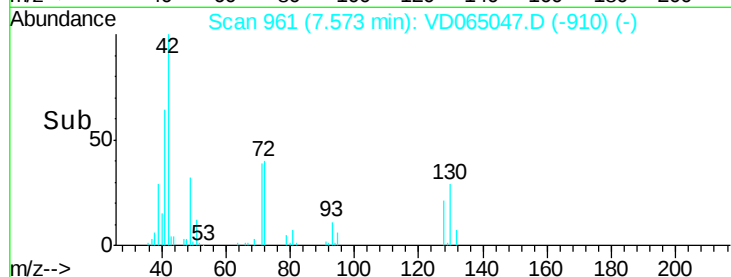
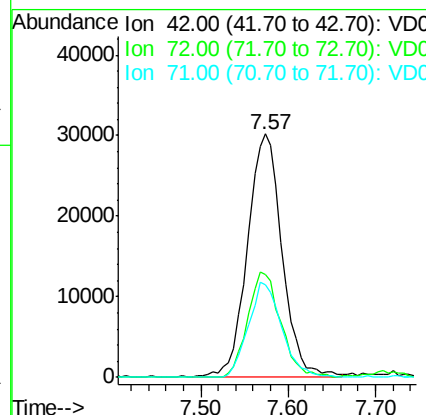
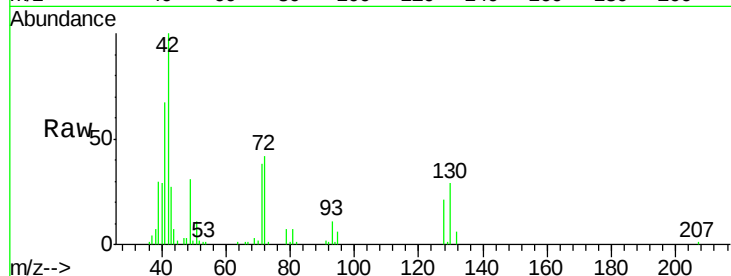
#29
Tetrahydrofuran
Concen: 105.246 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.0	51.0
71	37.5	31.5	47.3

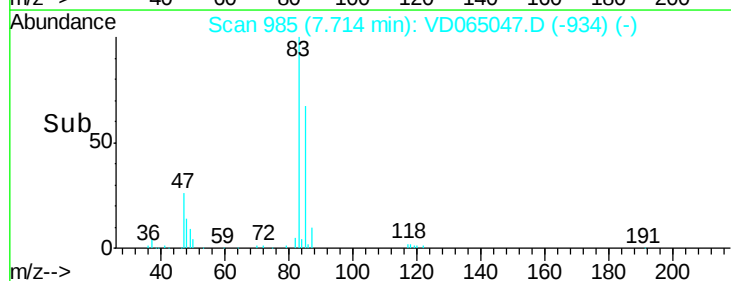
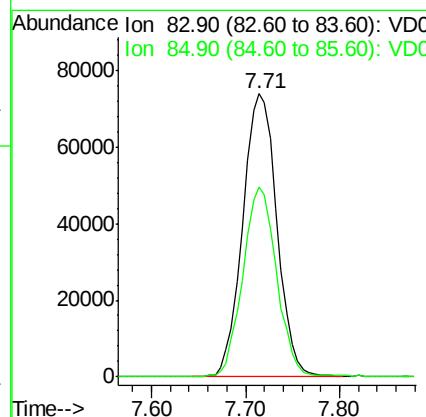
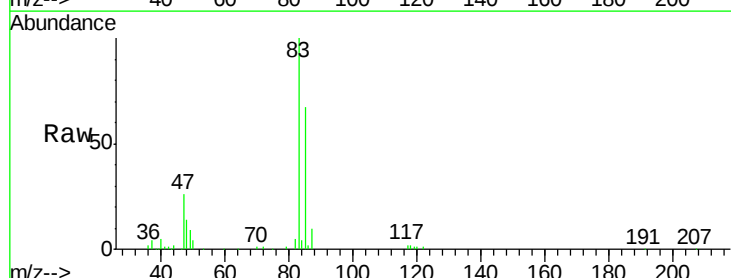
Manual Integrations
APPROVED

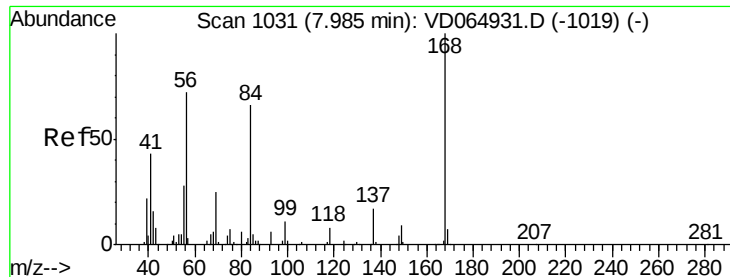
MMDadoda
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#30
Chloroform
Concen: 21.874 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.4	78.6





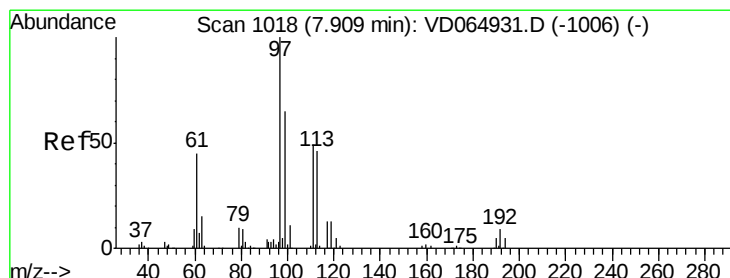
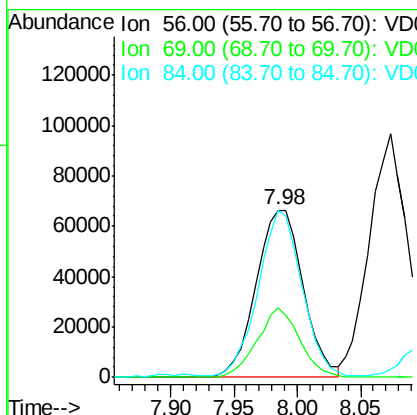
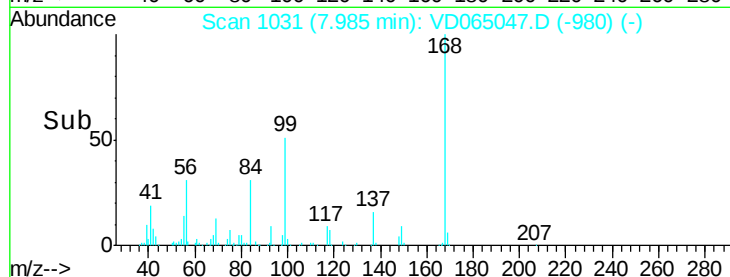
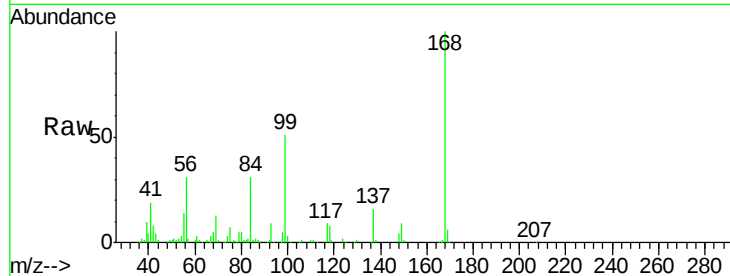
#31
Cyclohexane
Concen: 21.136 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	42.0	27.9	41.9#
84	98.2	72.8	109.2

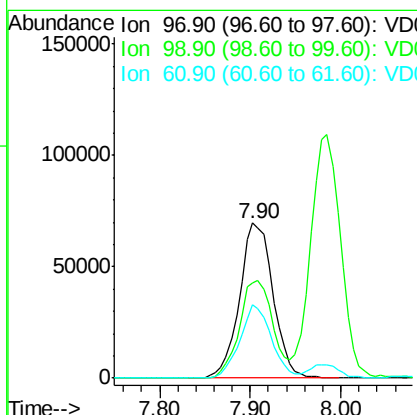
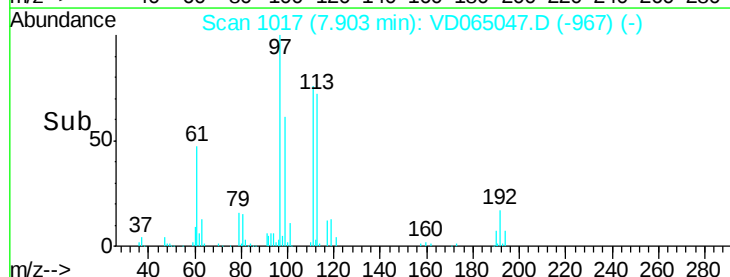
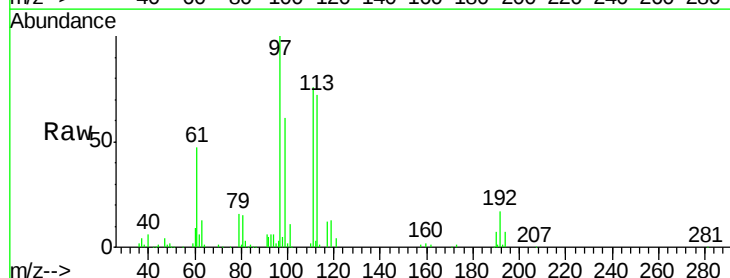
Manual Integrations
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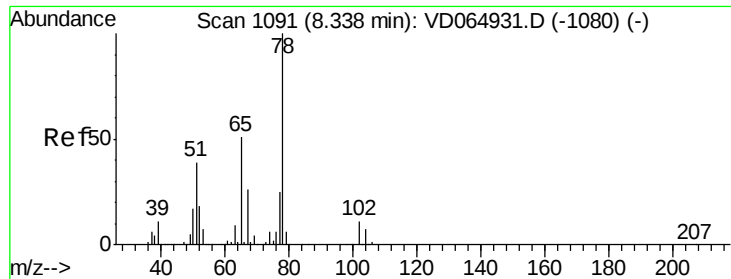
MMDadoda
2/4/2020 11:21:14 AM



#32
1,1,1-Trichloroethane
Concen: 22.651 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.6	76.0
61	44.0	35.7	53.5





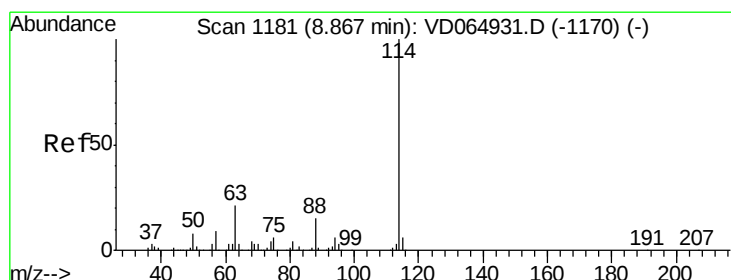
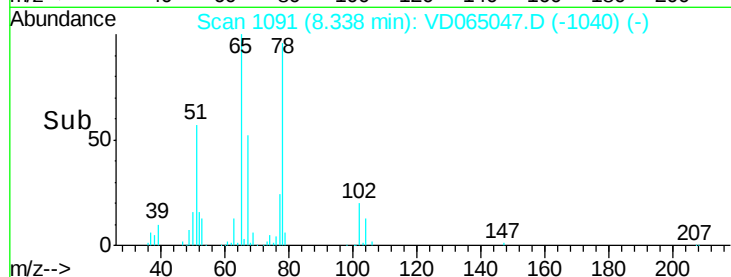
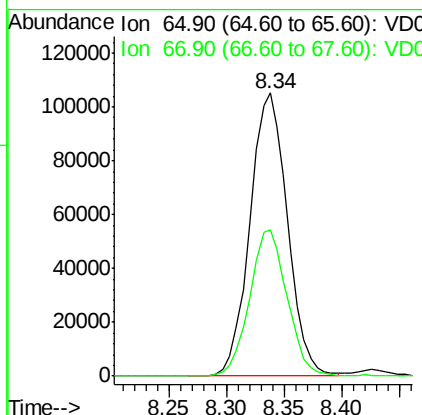
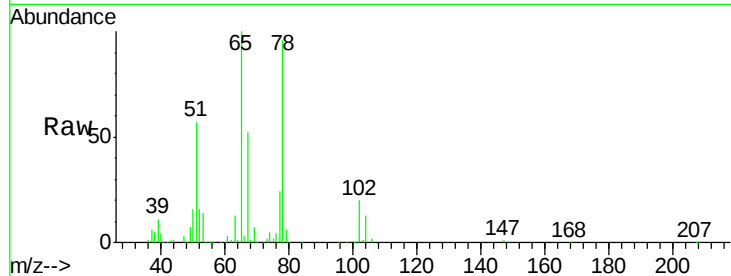
#33
 1,2-Dichloroethane-d4
 Concen: 51.133 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	237603		
67	51.5	0.0	103.6	

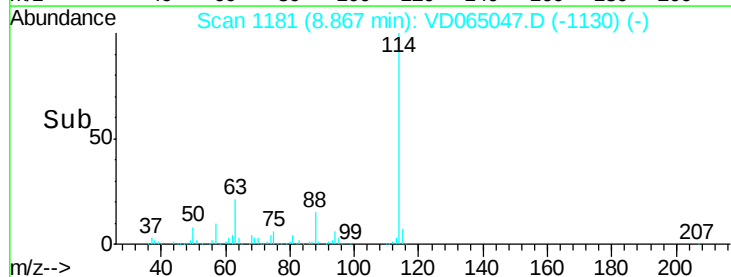
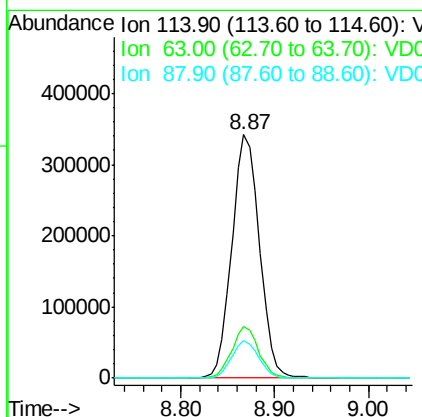
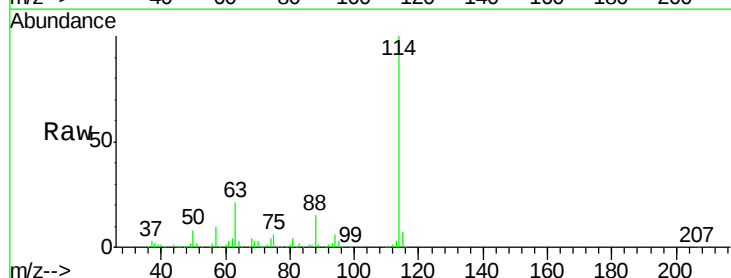
Manual Integrations
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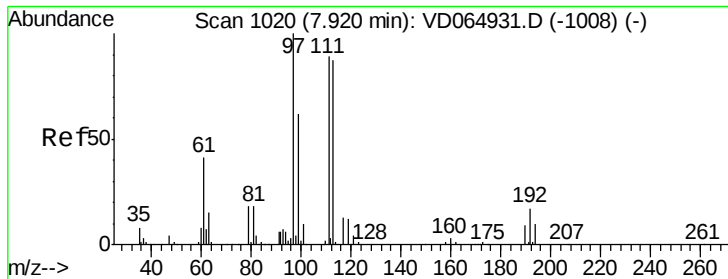
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	698623		
63	21.4	0.0	42.0	
88	15.4	0.0	29.4	





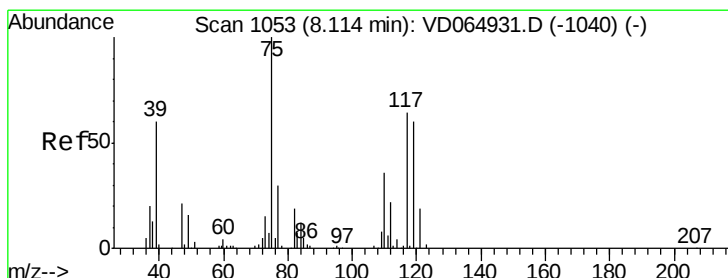
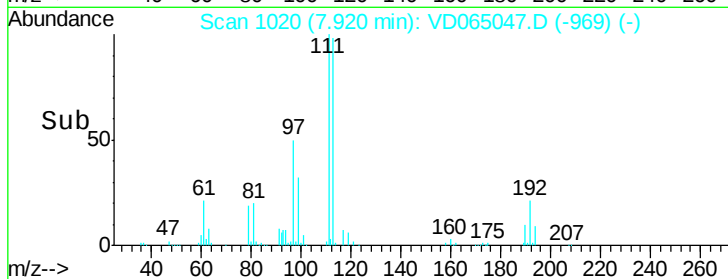
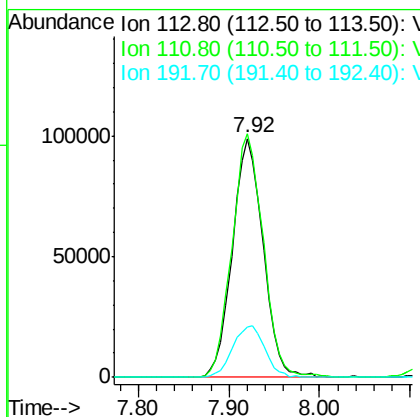
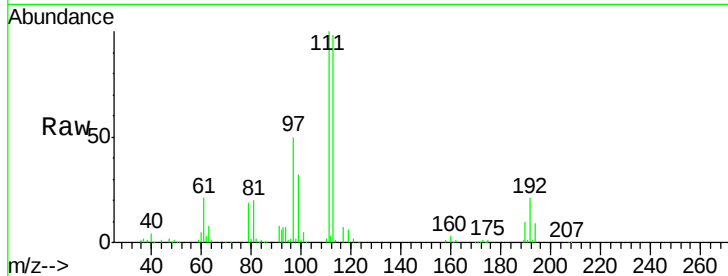
#35
 Dibromofluoromethane
 Concen: 53.153 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	233355		
111	103.7	82.4	123.6	
192	22.5	16.9	25.3	

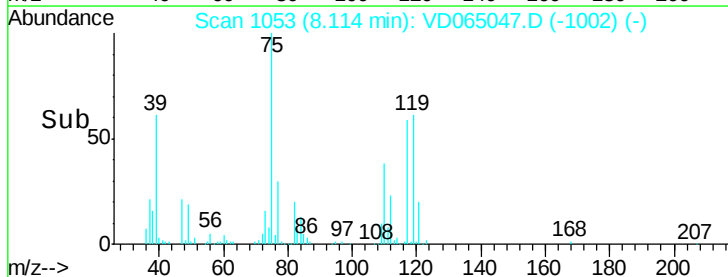
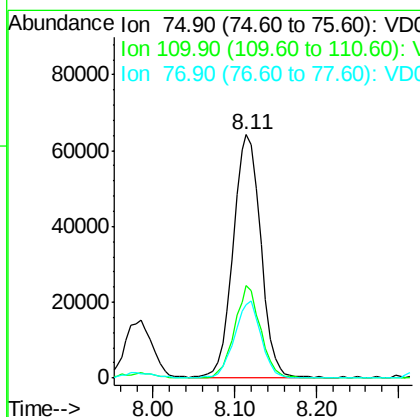
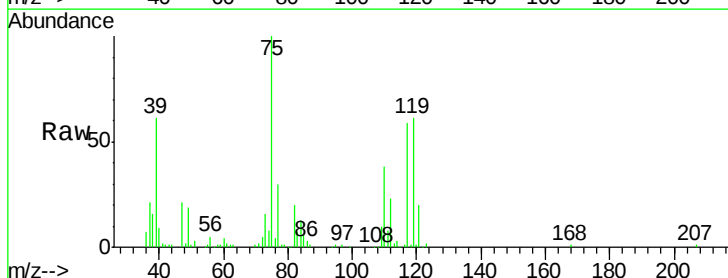
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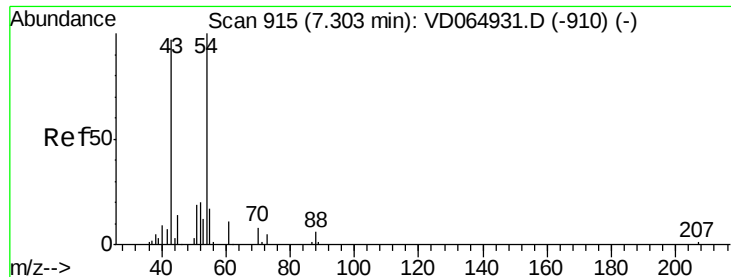
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#36
 1,1-Dichloropropene
 Concen: 22.377 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	150745		
110	35.6	17.3	52.0	
77	30.7	24.7	37.1	





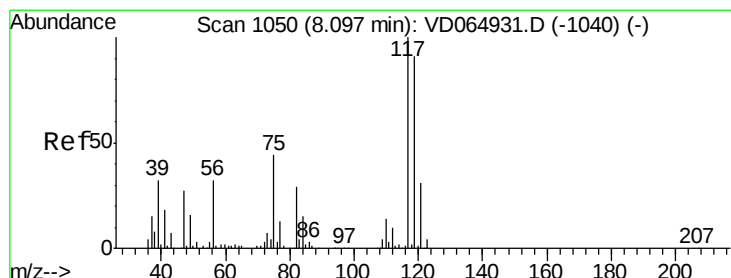
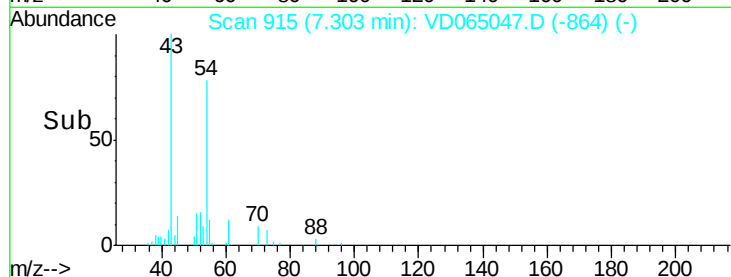
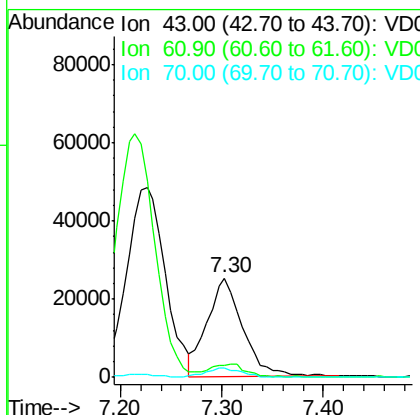
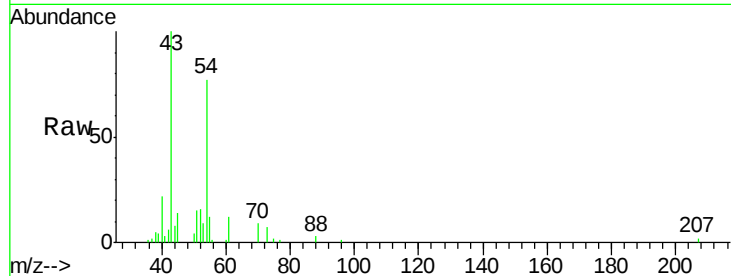
#37
Ethyl Acetate
Concen: 21.956 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	11.0	16.4
70	9.0	7.5	11.3

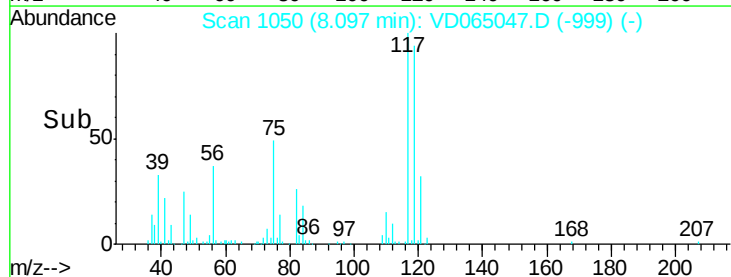
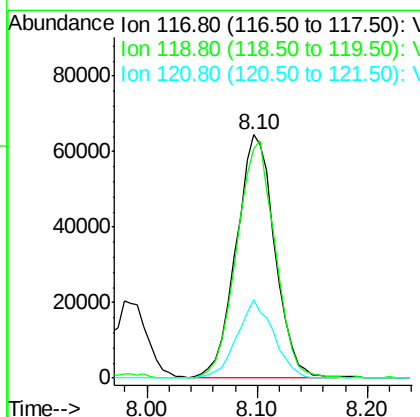
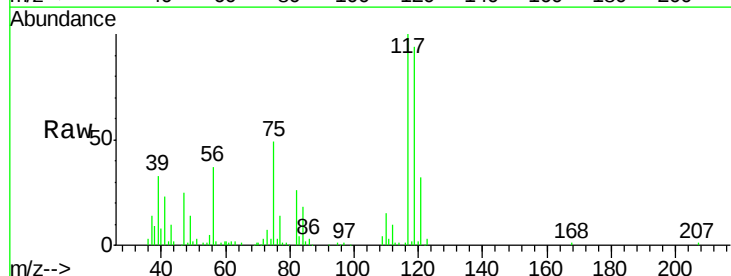
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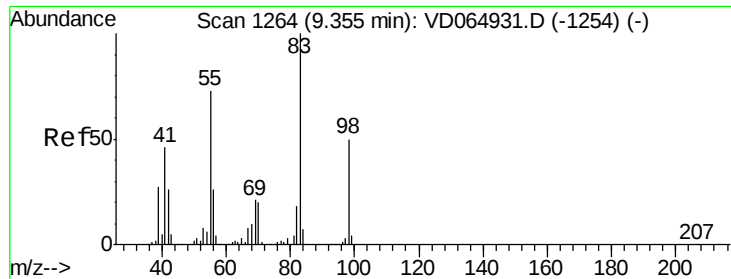
MMDadoda
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#38
Carbon Tetrachloride
Concen: 22.063 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.7	73.2	109.8
121	32.3	24.4	36.6





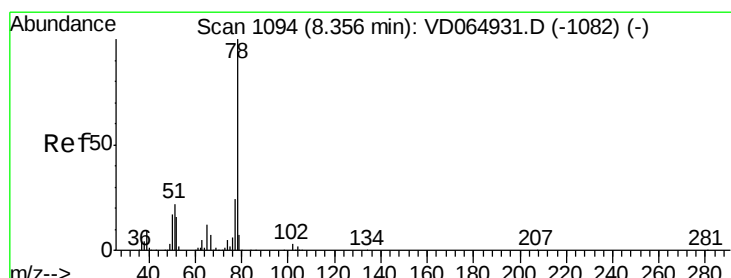
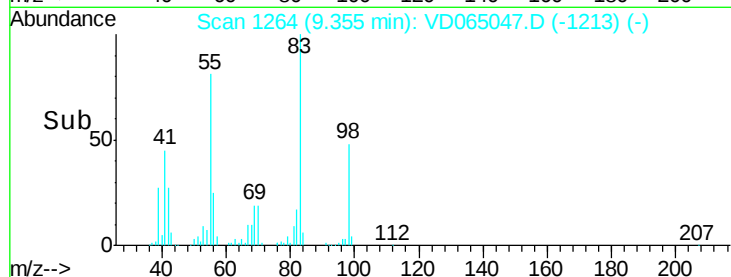
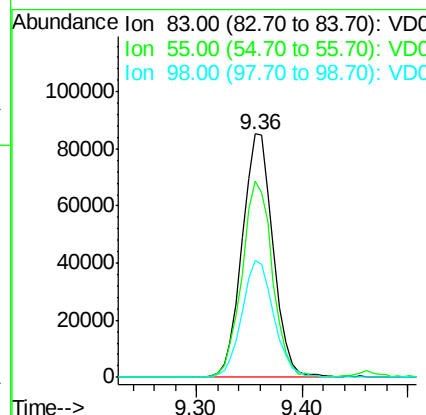
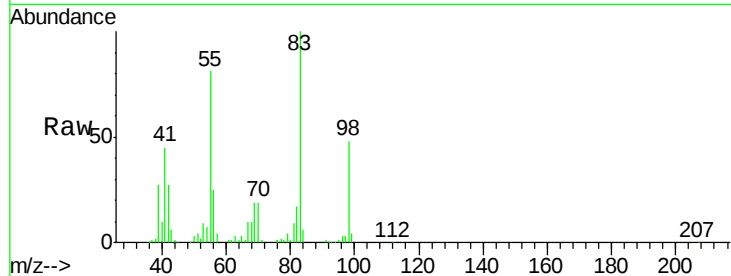
#39
Methvlcvclohexane
Concen: 22.018 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	83	Resp	173412
Ion Ratio	Lower	Upper	
83	100		
55	80.5	58.7	88.1
98	47.8	40.2	60.2

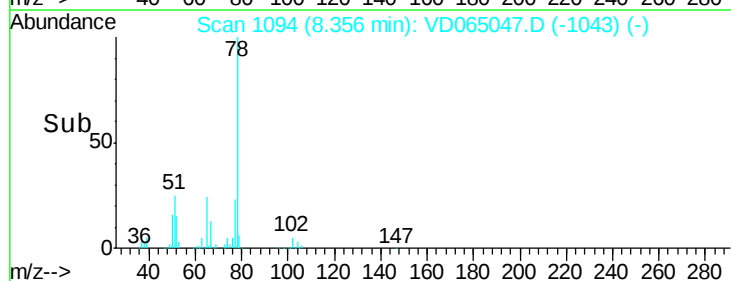
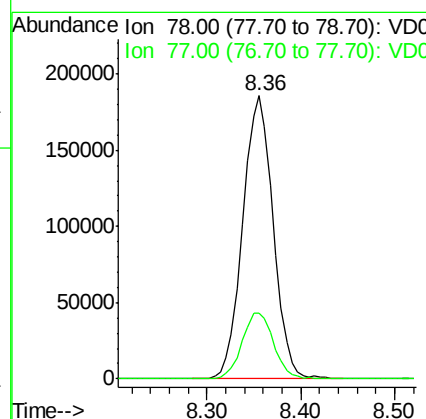
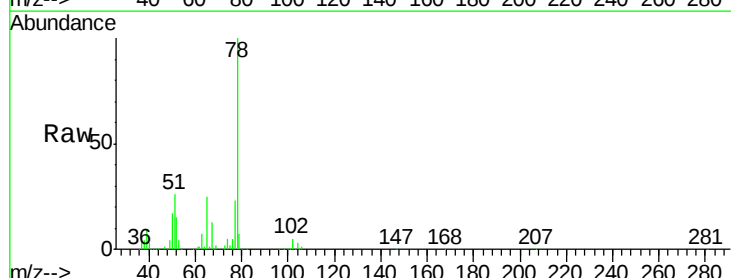
Manual Integrations
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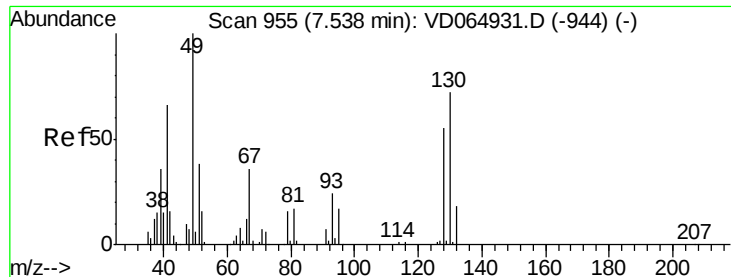
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#40
Benzene
Concen: 22.437 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	78	Resp	416289
Ion Ratio	Lower	Upper	
78	100		
77	23.2	19.2	28.8





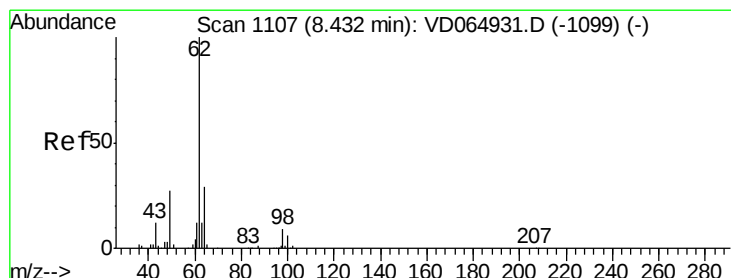
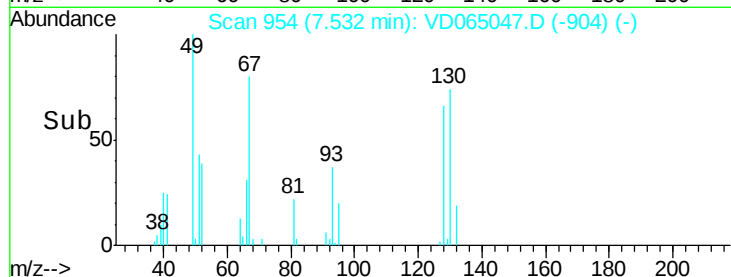
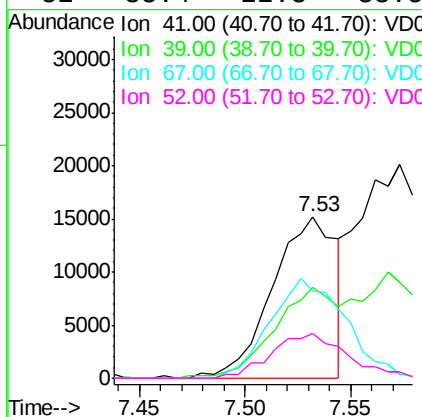
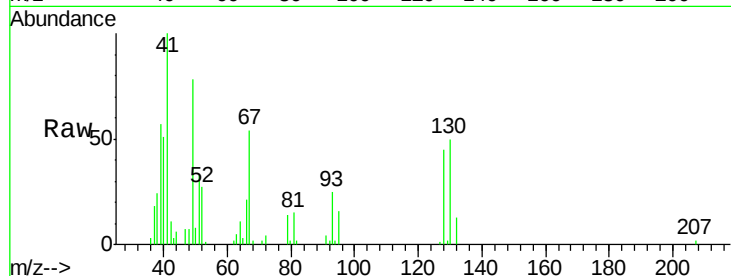
#41
Methacrylonitrile
Concen: 21.395 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	41	Resp	32071
Ion	Ratio	Lower	Upper
41	100		
39	54.6	49.3	73.9
67	73.2	51.0	76.6
52	33.4	22.3	33.5

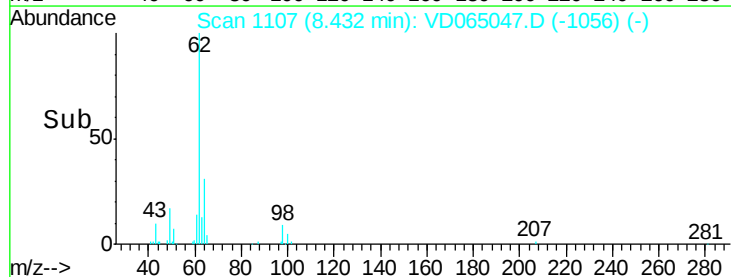
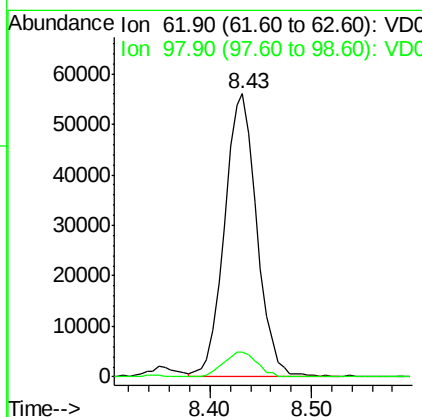
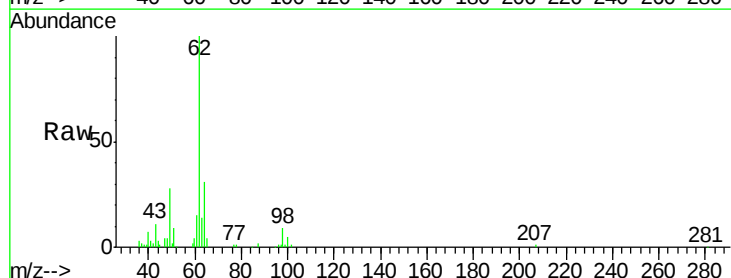
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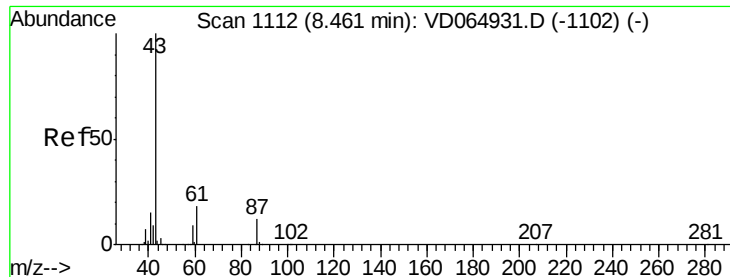
MMDadoda
2/4/2020 11:21:14 AM



#42
1,2-Dichloroethane
Concen: 22.349 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	62	Resp	123520
Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.8





#43

Isopropyl Acetate

Concen: 20.829 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

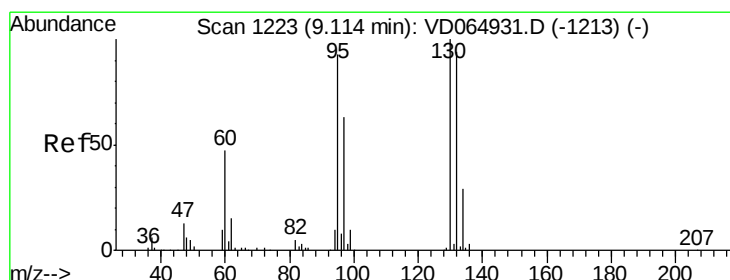
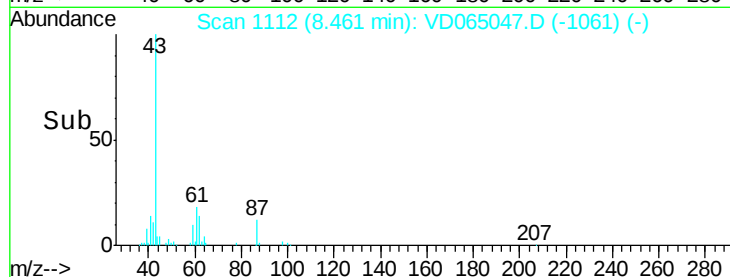
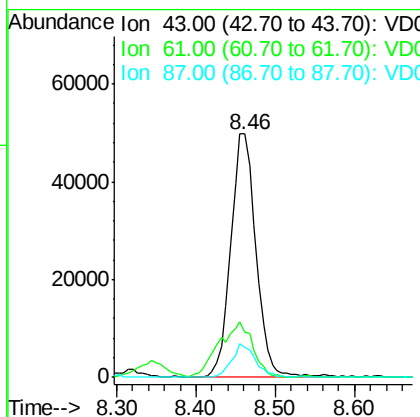
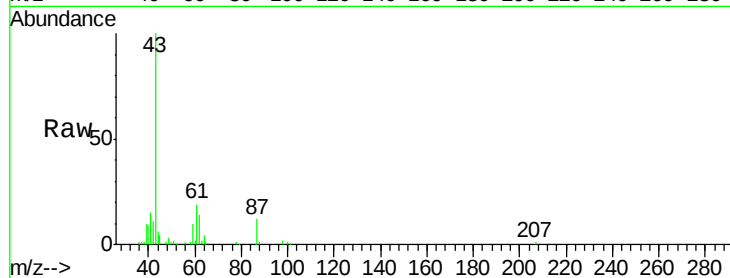
ClientSampleId :

VD0203SBSD01

Tot Ion:	43	Resp:	110094
Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.8	35.6
87	12.8	10.3	15.5

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2/4/2020 11:21:14 AM



#44

Trichloroethene

Concen: 22.479 ug/l

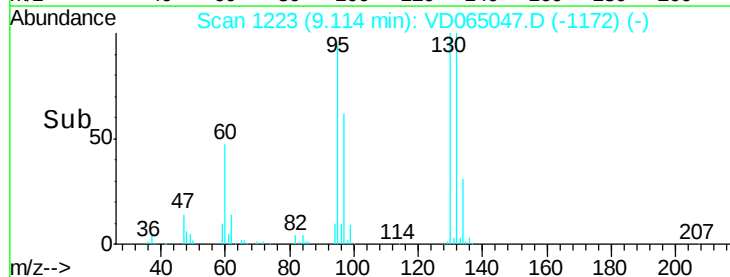
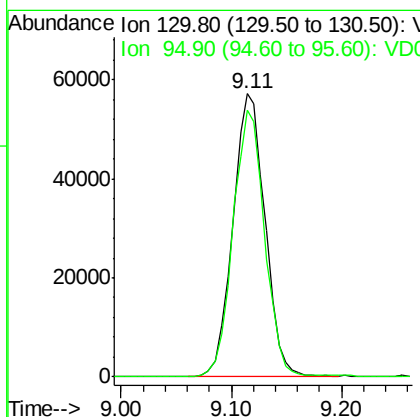
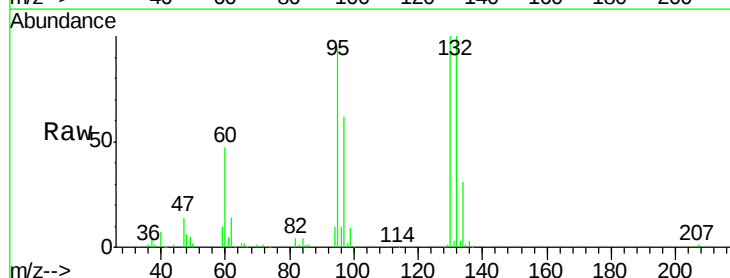
RT: 9.11 min Scan# 1223

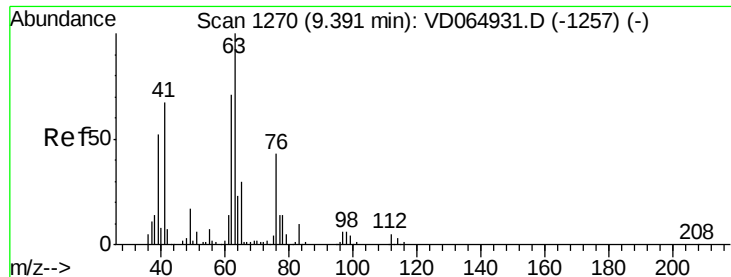
Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	130	Resp:	116726
Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	185.8





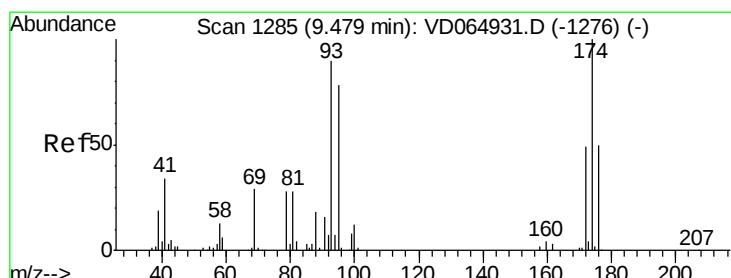
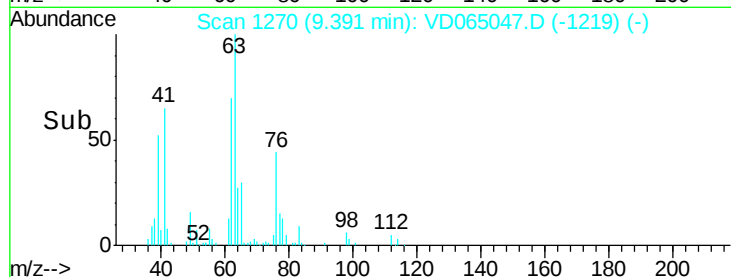
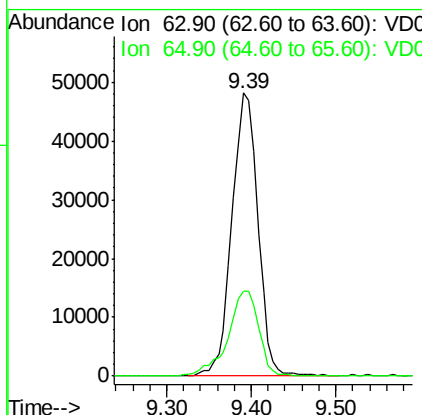
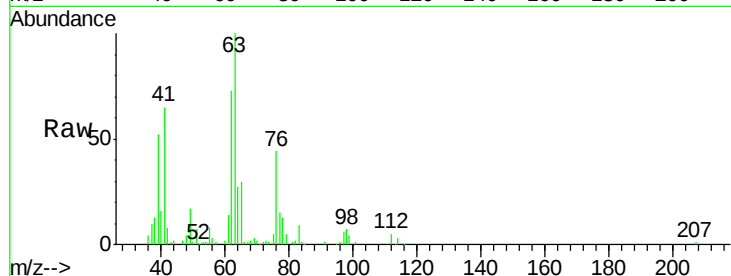
#45
 1,2-Dichloropropane
 Concen: 22.748 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.3	36.5

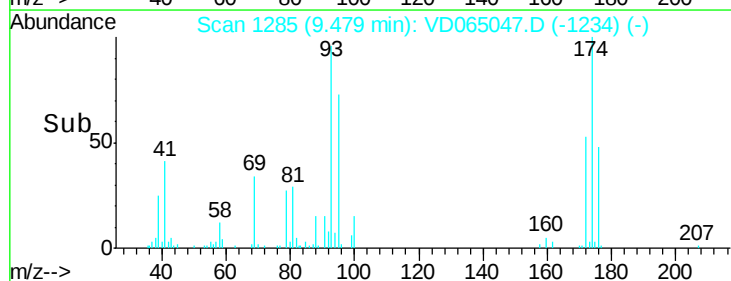
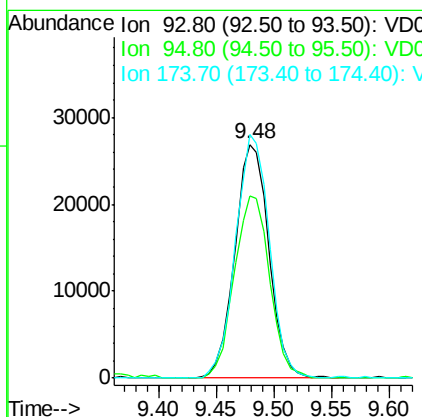
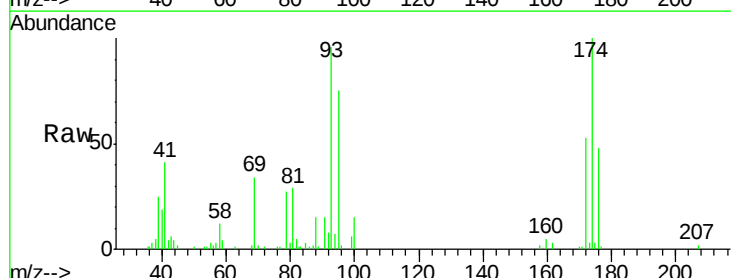
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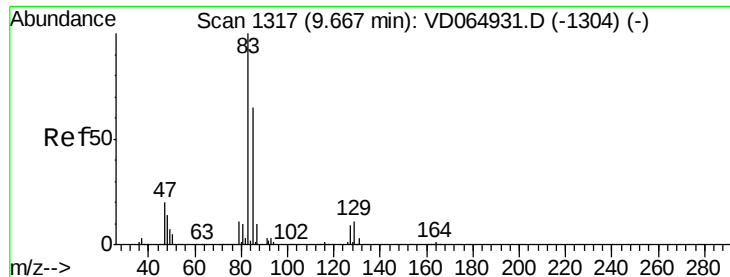
MMDadoda
 2/4/2020 11:21:14 AM



#46
 Dibromomethane
 Concen: 22.452 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.7	67.5	101.3
174	103.1	88.4	132.6





#47

Bromodichloromethane

Concen: 22.480 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

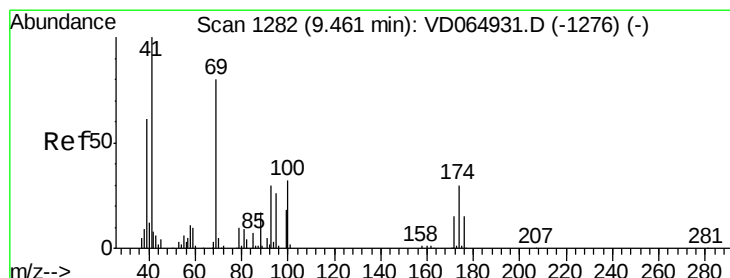
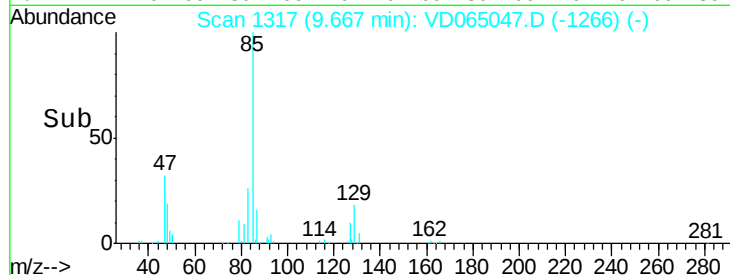
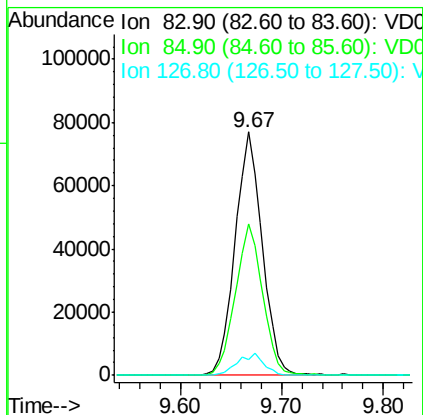
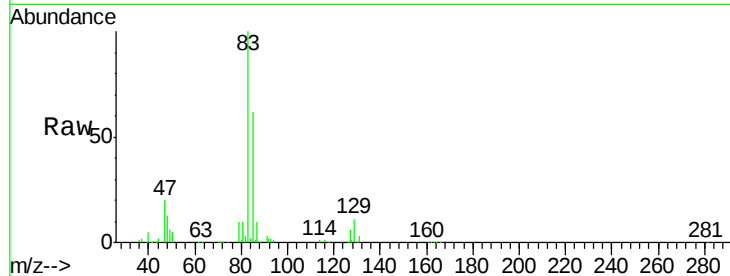
ClientSampleId :

VD0203SBSD01

Tot Ion:	83	Resp:	143643
Ion	Ratio	Lower	Upper
83	100		
85	62.0	52.0	78.0
127	6.4	7.3	10.9#

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#48

Methyl methacrylate

Concen: 20.730 ug/l

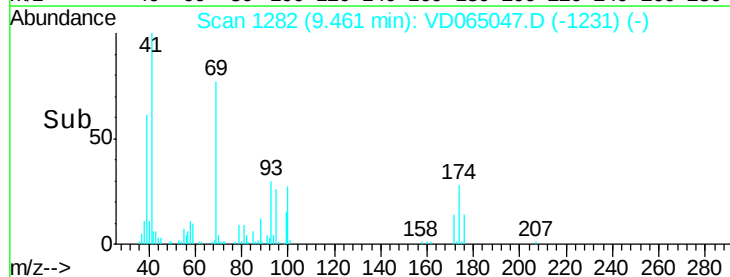
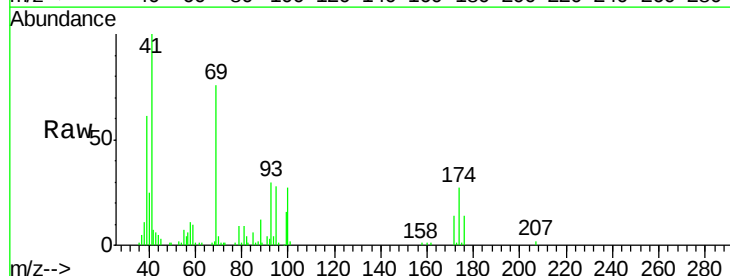
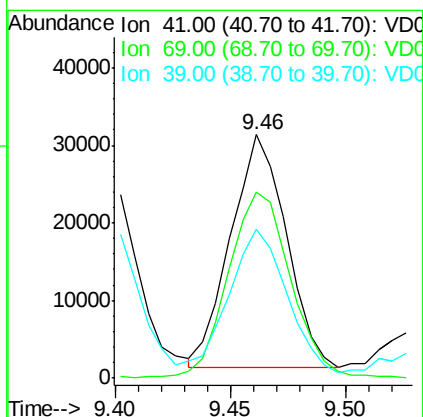
RT: 9.46 min Scan# 1282

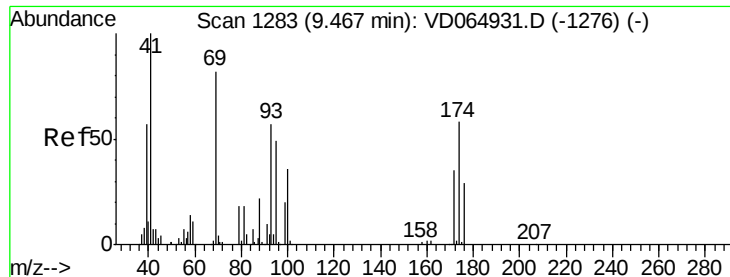
Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	41	Resp:	50423
Ion	Ratio	Lower	Upper
41	100		
69	89.8	65.8	98.8
39	64.2	49.4	74.0





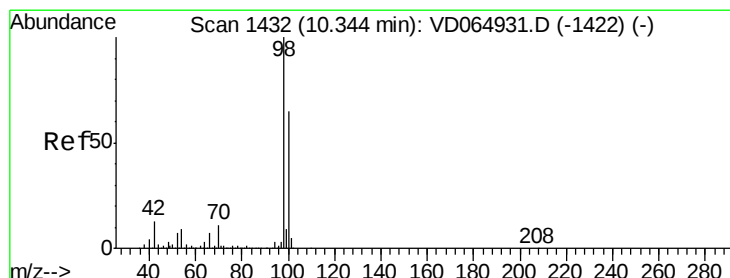
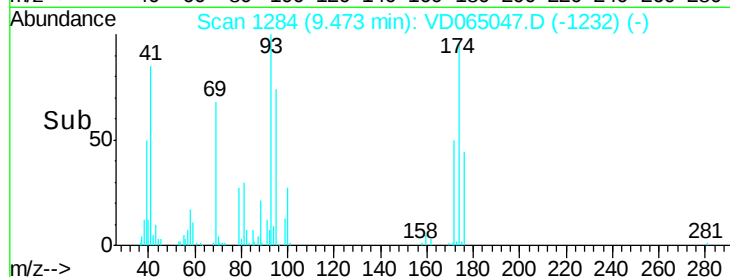
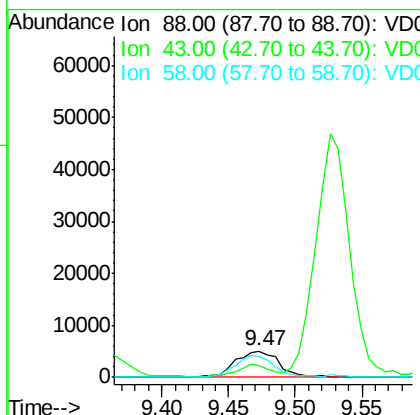
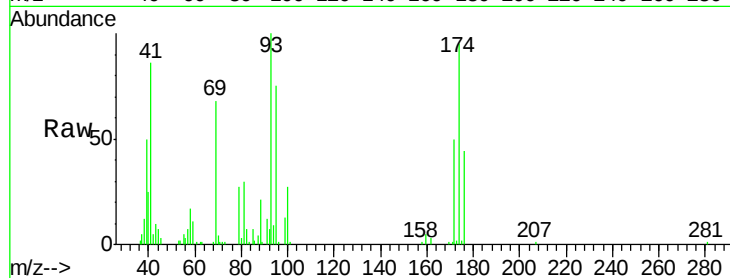
#49
1,4-Dioxane
Concen: 403.579 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	88	Resp	11494
Ion	Ratio	Lower	Upper
88	100		
43	41.0	26.2	39.4#
58	74.6	50.3	75.5

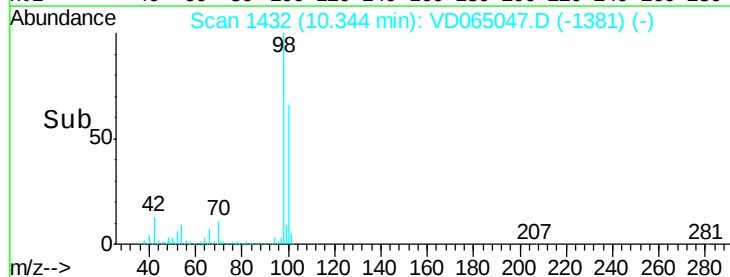
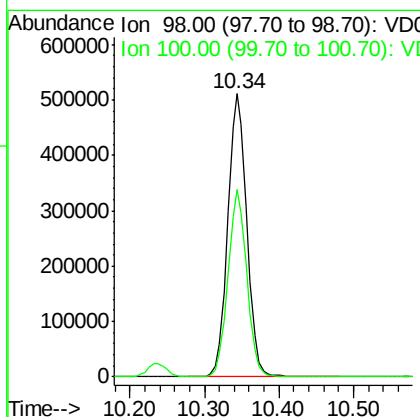
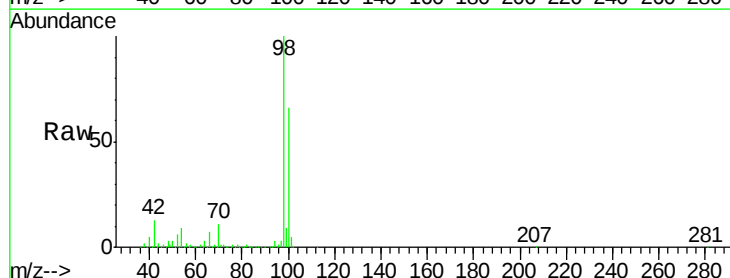
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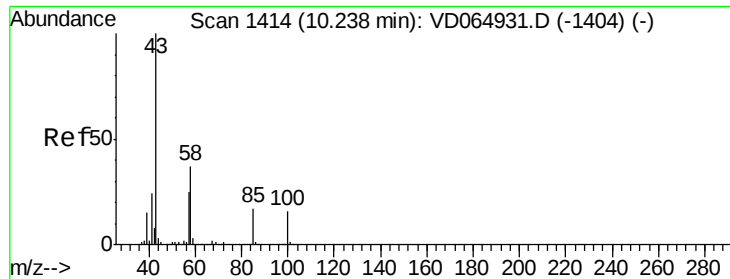
MMDadoda
2/4/2020 11:21:14 AM



#50
Toluene-d8
Concen: 53.531 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	98	Resp	907064
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.3	78.5





#51

4-Methyl-2-Pentanone

Concen: 105.512 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS001

Tot Ion: 43 Resp: 279058

Ion Ratio Lower Upper

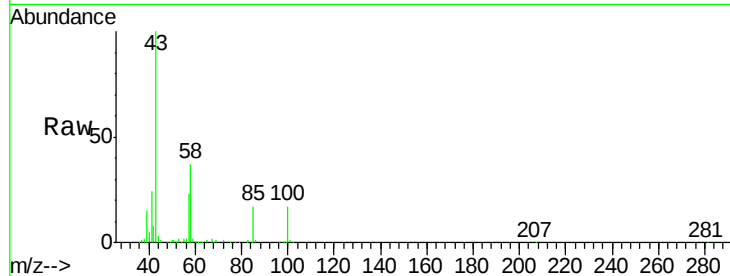
43 100

58 37.0 30.4 45.6

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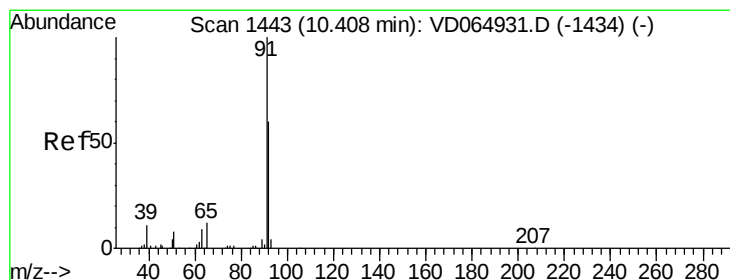
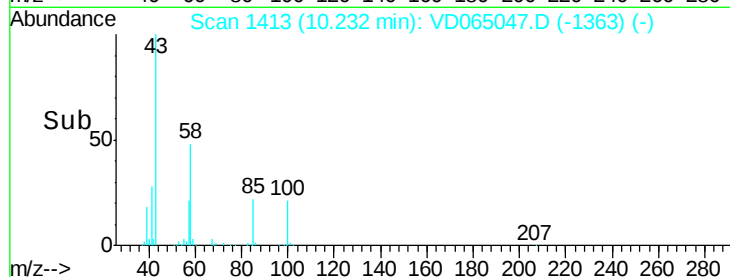
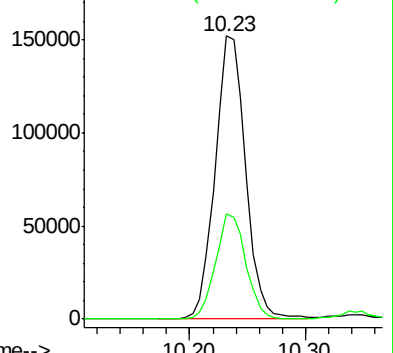
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 22.327 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065047.D

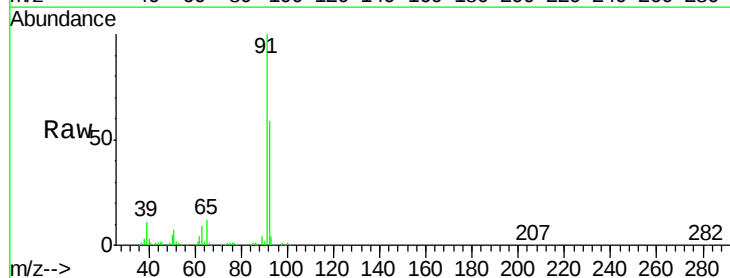
Acq: 03 Feb 2020 11:52

Tgt Ion: 92 Resp: 267076

Ion Ratio Lower Upper

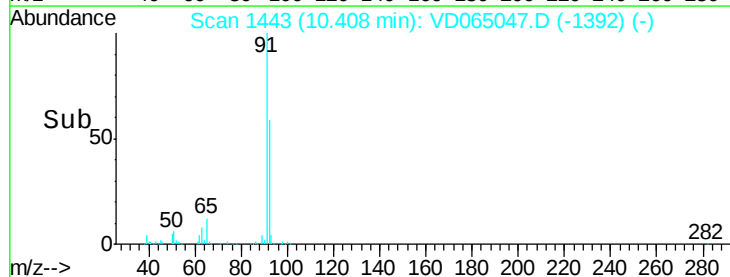
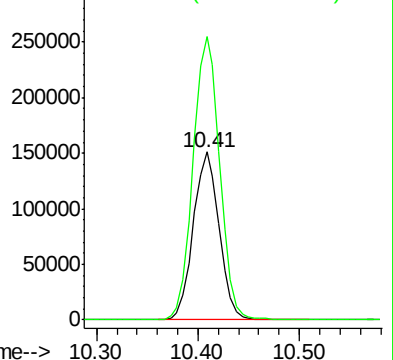
92 100

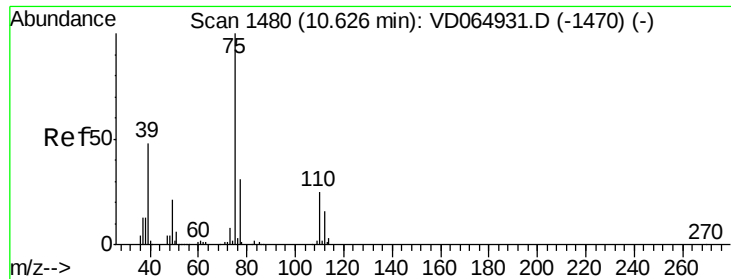
91 173.4 136.8 205.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





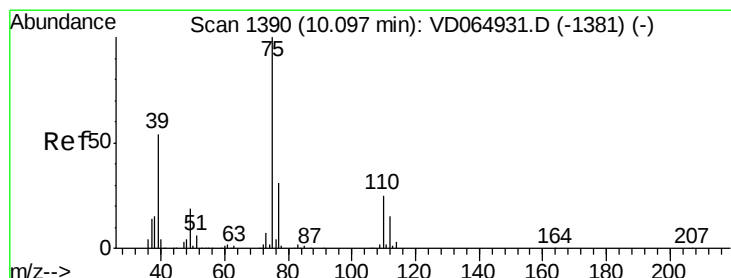
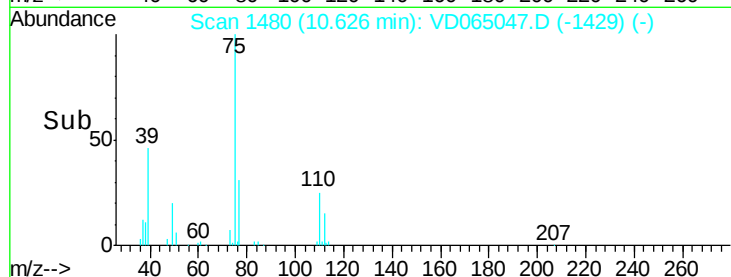
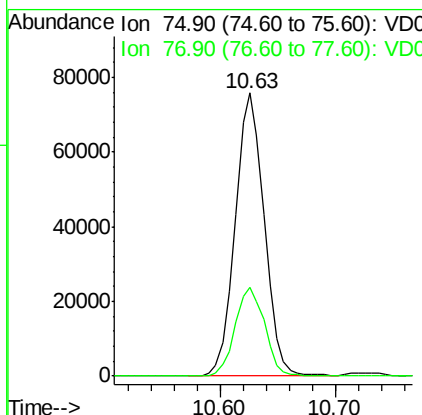
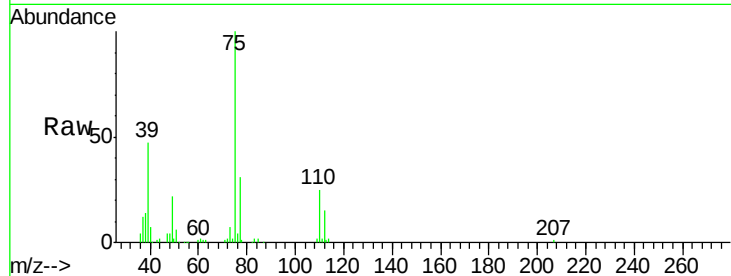
#53
t-1,3-Dichloropropene
Concen: 21.641 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	75	Resp	131721
Ion Ratio	Lower	Upper	
75	100		
77	31.3	25.0	37.6

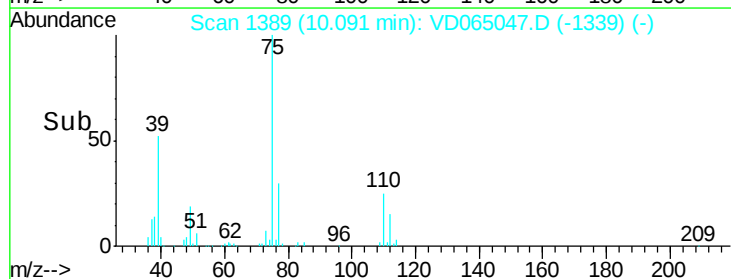
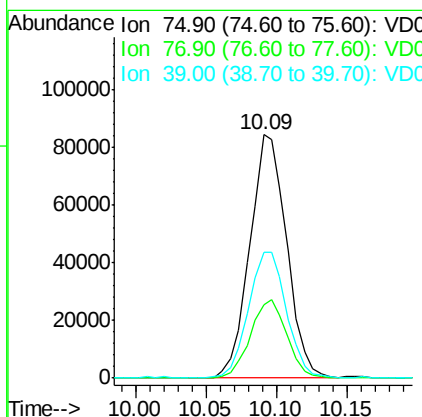
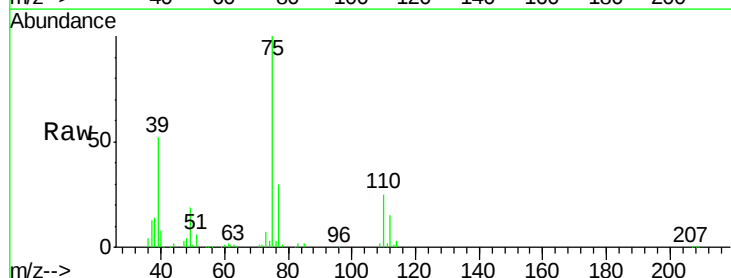
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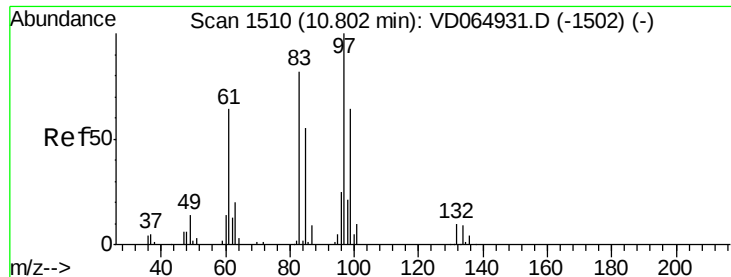
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 21.727 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	75	Resp	154836
Ion Ratio	Lower	Upper	
75	100		
77	30.3	25.1	37.7
39	51.6	43.0	64.6





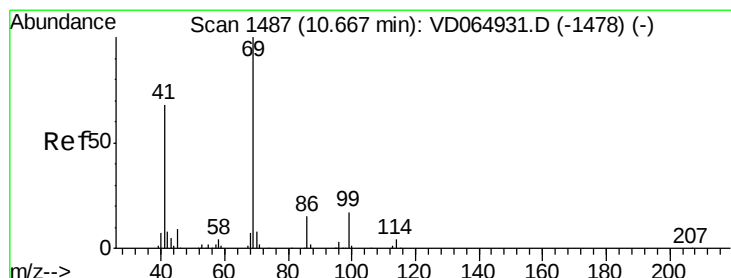
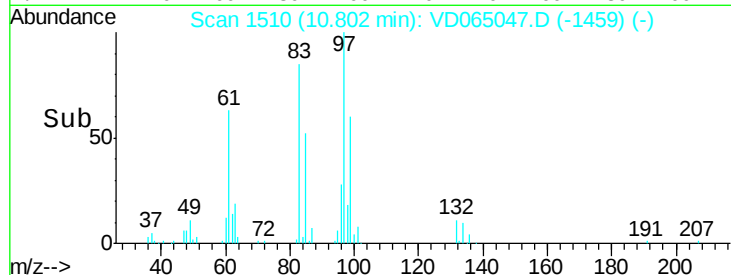
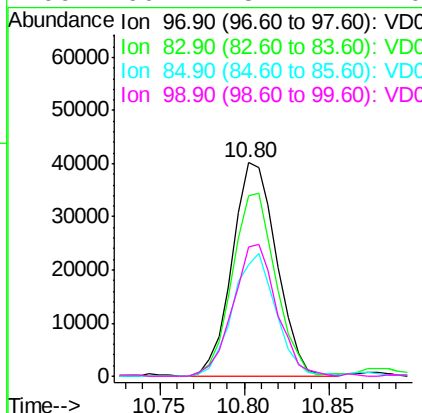
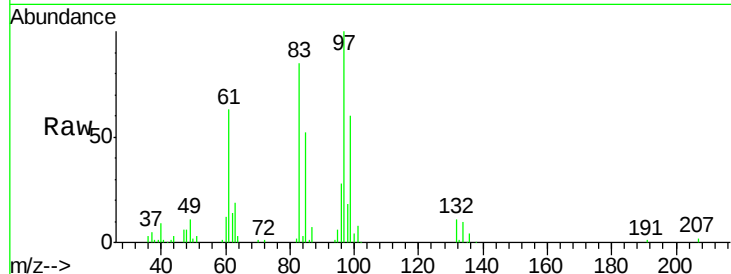
#55
 1,1,2-Trichloroethane
 Concen: 22.270 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion:	97	Resp:	73664
Ion	Ratio	Lower	Upper
97	100		
83	84.7	66.0	99.0
85	51.9	44.4	66.6
99	60.4	51.4	77.0

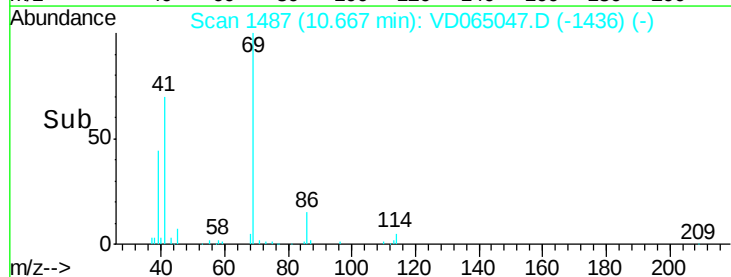
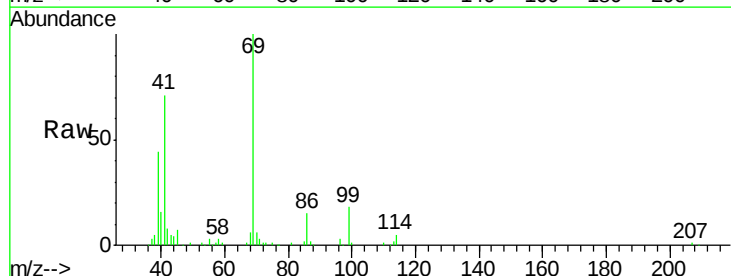
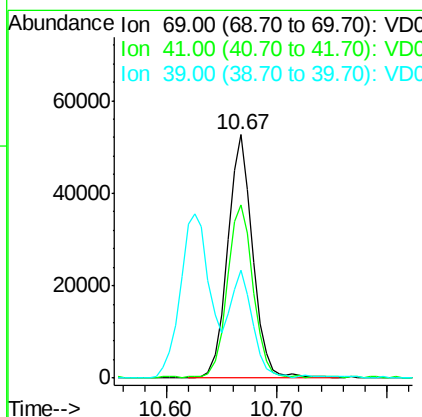
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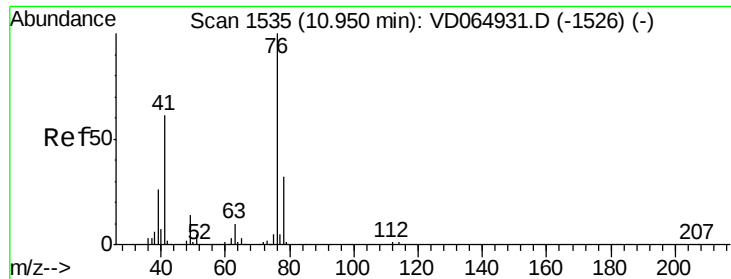
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#56
 Ethyl methacrylate
 Concen: 21.122 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion:	69	Resp:	83549
Ion	Ratio	Lower	Upper
69	100		
41	75.0	56.4	84.6
39	39.4	30.6	46.0





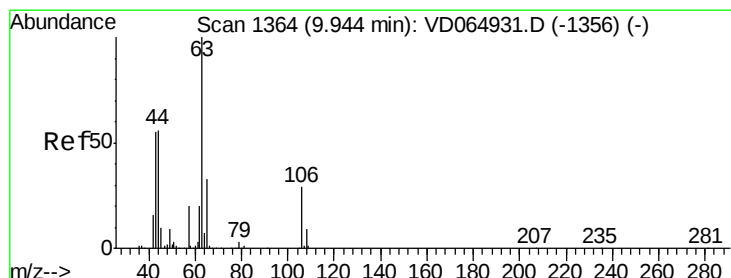
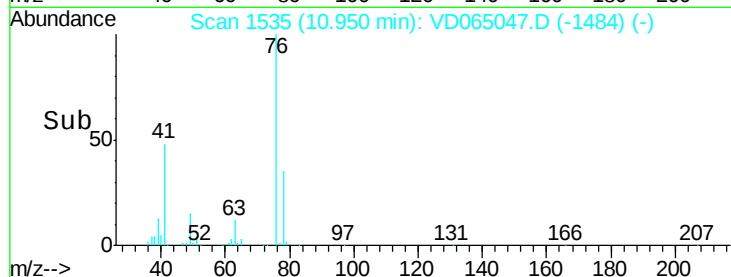
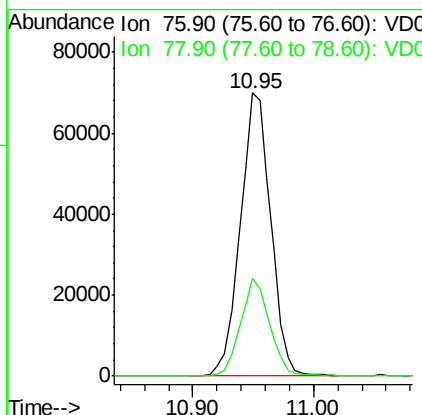
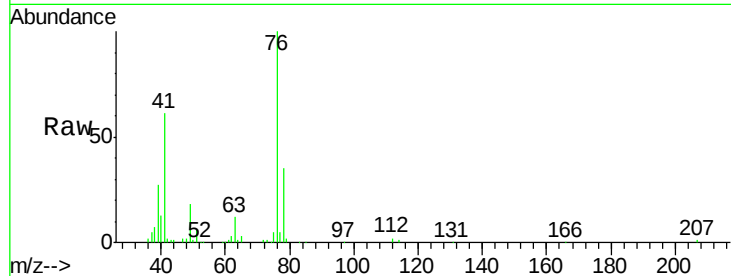
#57
 1,3-Dichloropropane
 Concen: 21.668 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.7	38.5

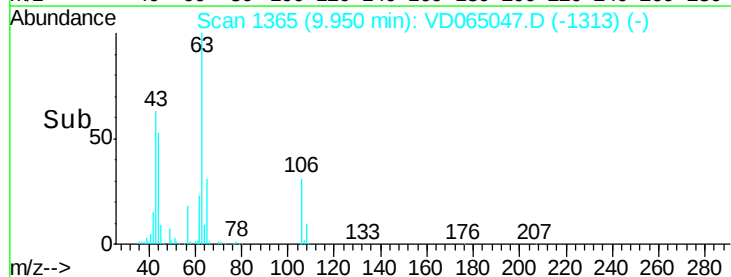
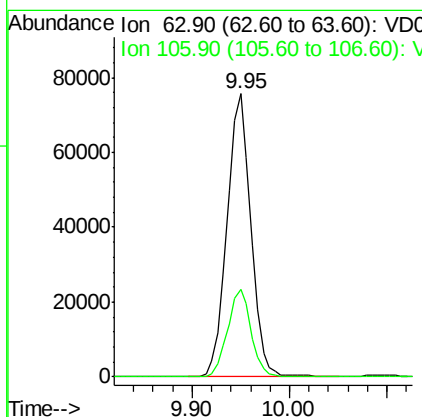
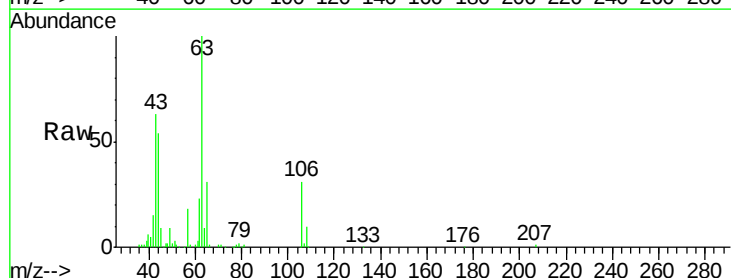
Manual Integrations
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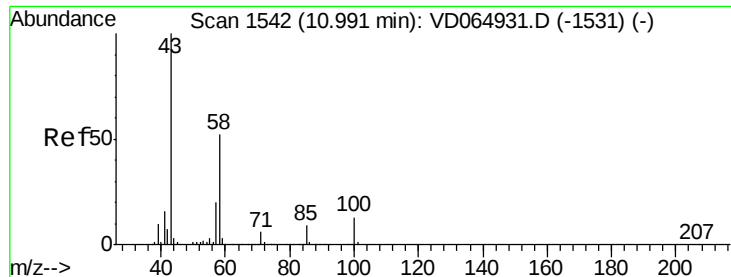
MMDadoda
 2/4/2020 11:21:14 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.581 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.5	23.0	34.4





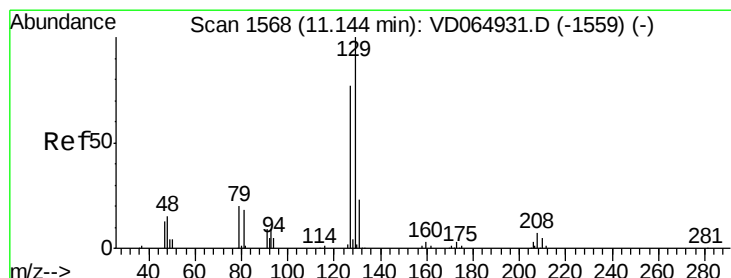
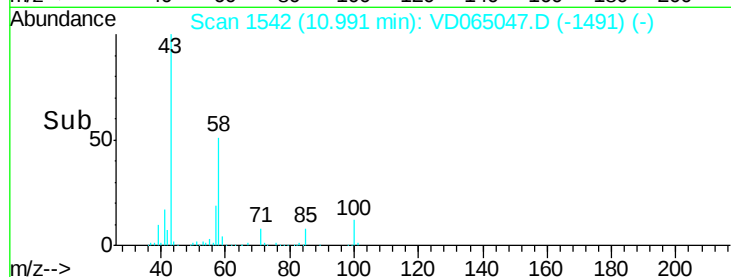
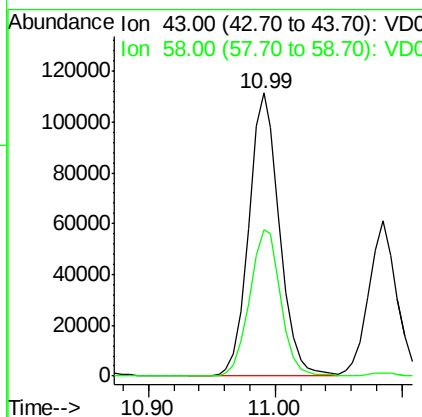
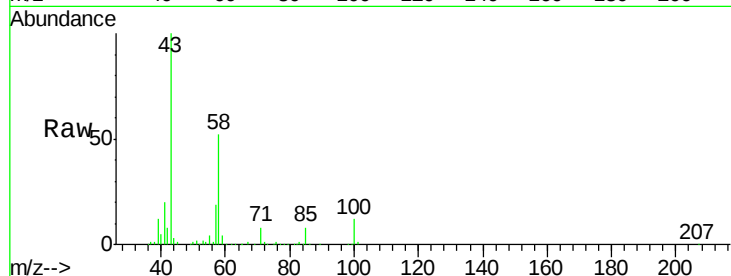
#59
2-Hexanone
Concen: 102.814 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion: 43 Resp: 187564
Ion Ratio Lower Upper
43 100
58 52.3 26.5 79.4

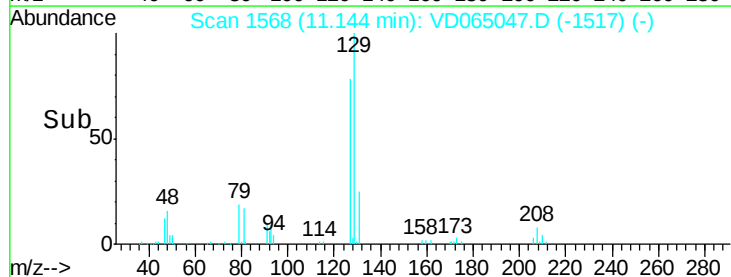
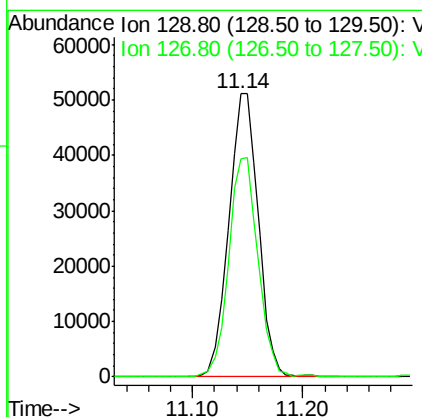
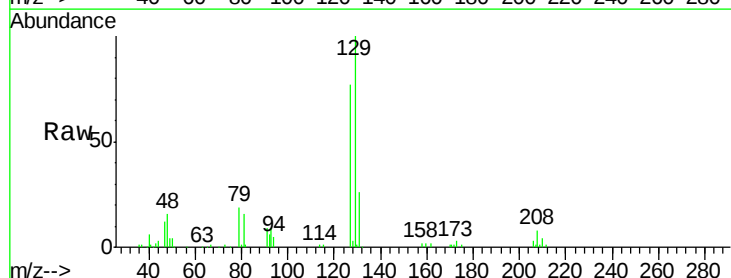
Manual Integrations
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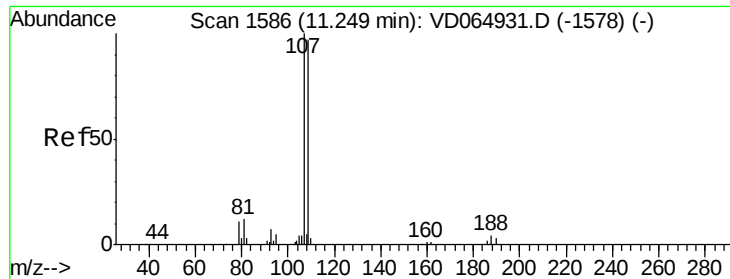
MMDadoda
2/4/2020 11:21:14 AM



#60
Dibromochloromethane
Concen: 21.738 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion: 129 Resp: 96105
Ion Ratio Lower Upper
129 100
127 76.6 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.627 ug/l

RT: 11.26 min Scan# 1587

Delta R.T. 0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBSD01

Tot Ion: 107 Resp: 68881

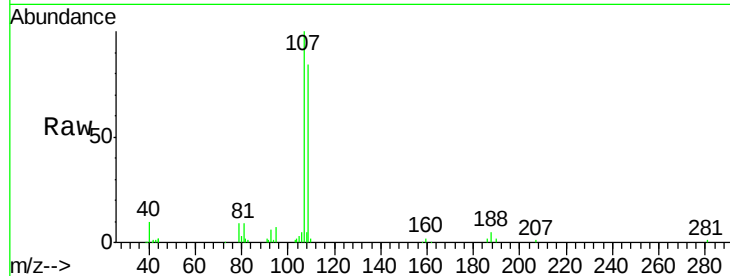
Ion Ratio Lower Upper

107 100

109 93.1 77.1 115.7

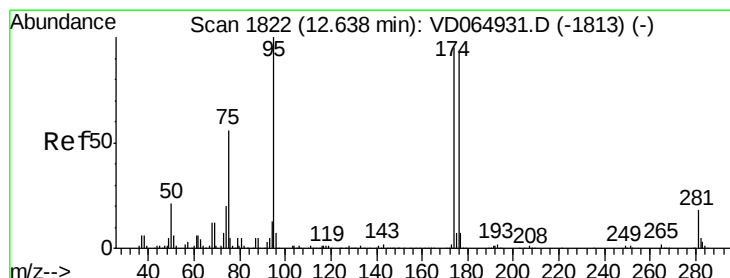
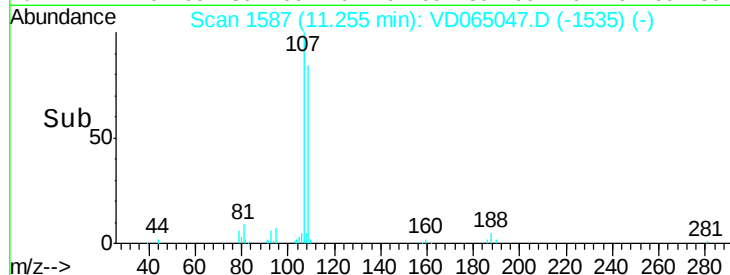
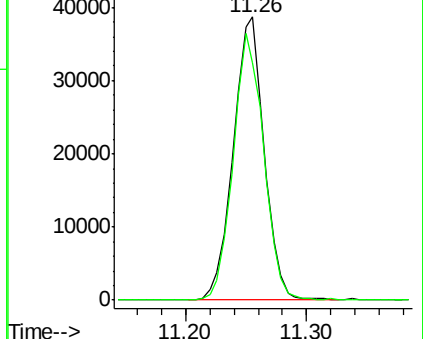
Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:14 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 54.455 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

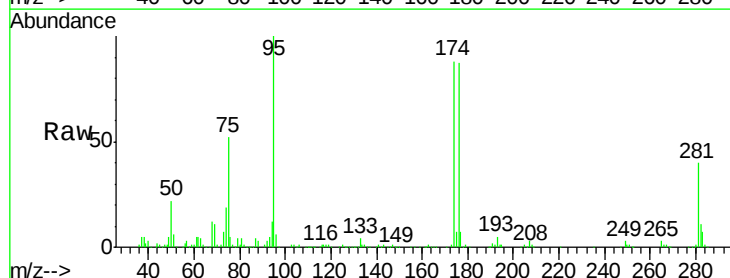
Tgt Ion: 95 Resp: 282370

Ion Ratio Lower Upper

95 100

174 91.9 0.0 186.8

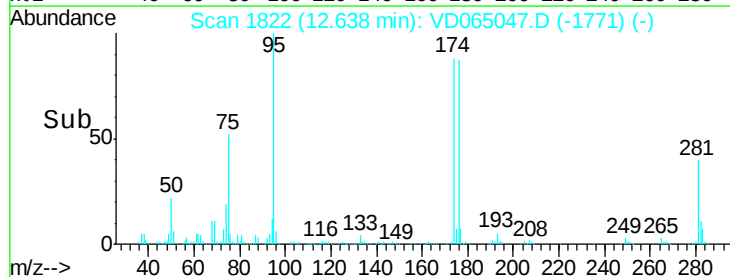
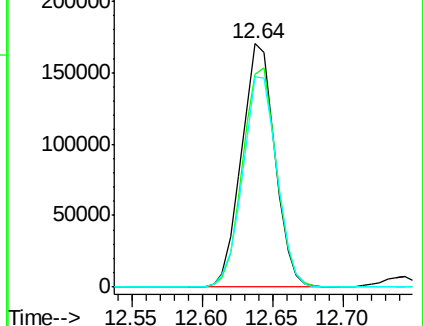
176 88.9 0.0 183.4

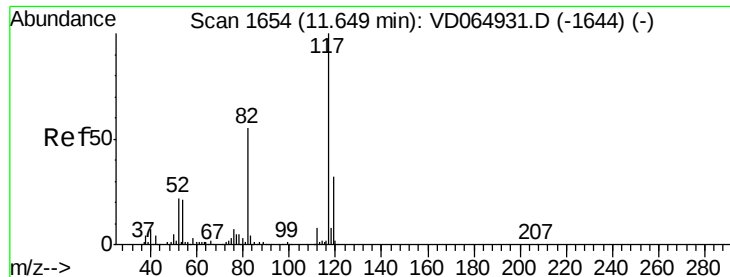


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





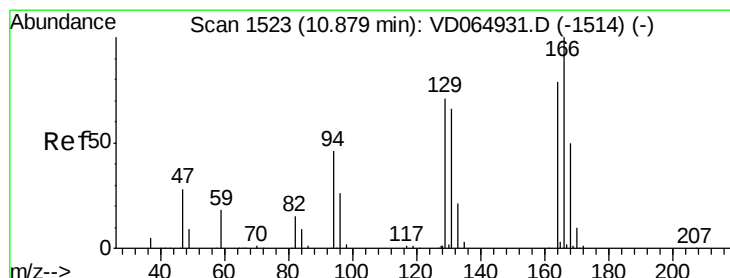
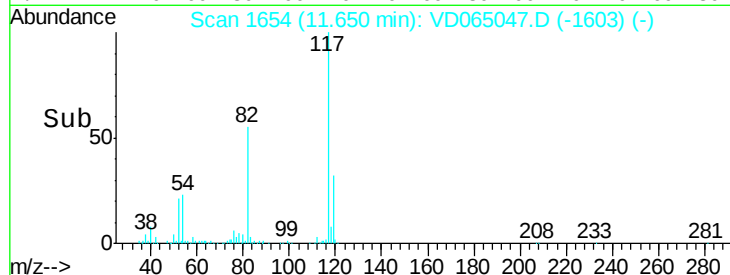
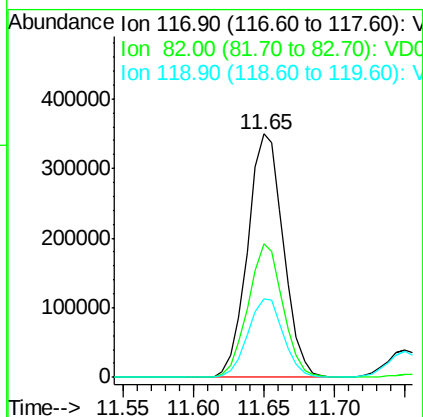
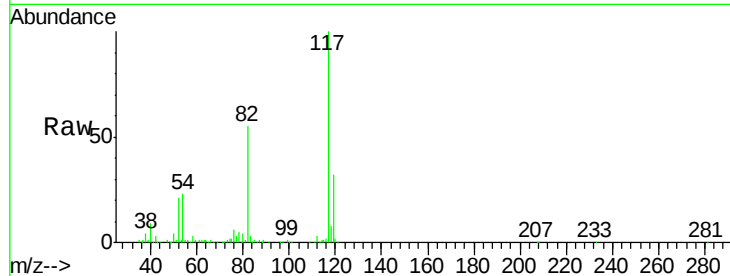
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.6	65.4
119	32.2	25.2	37.8

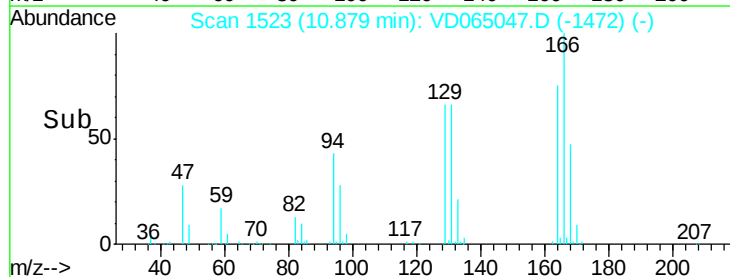
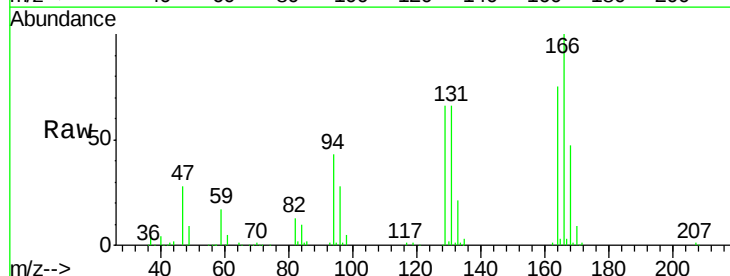
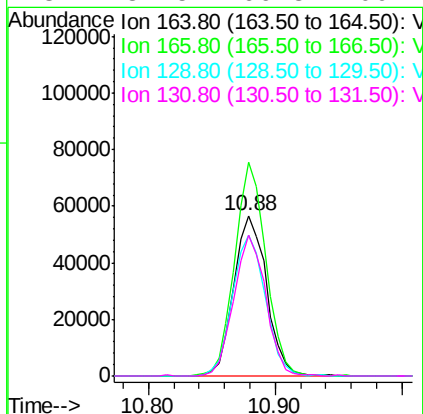
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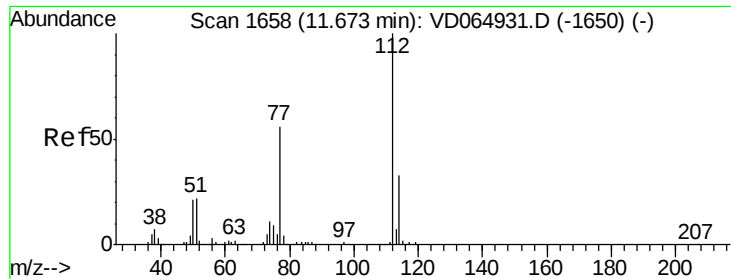
MMDadoda
2/4/2020 11:21:14 AM



#64
Tetrachloroethene
Concen: 22.508 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.1	101.4	152.2
129	87.6	71.8	107.8
131	87.5	66.8	100.2





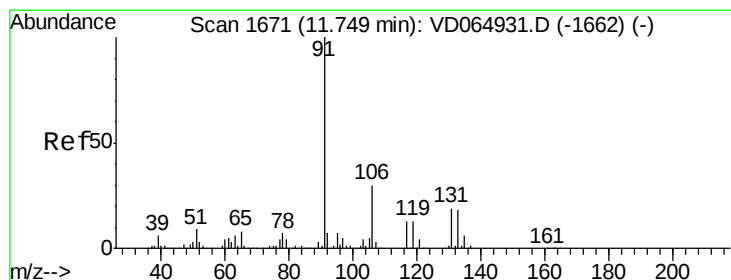
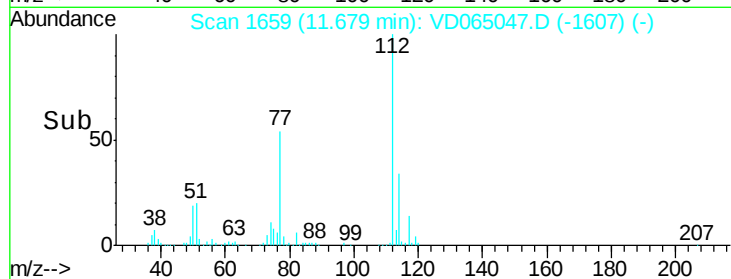
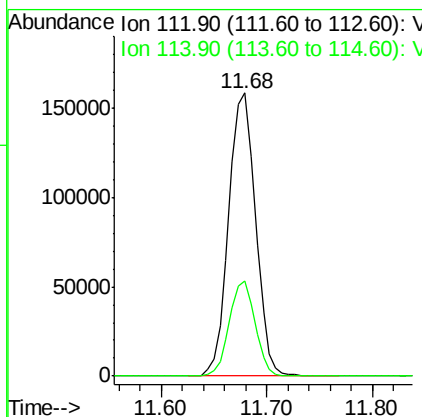
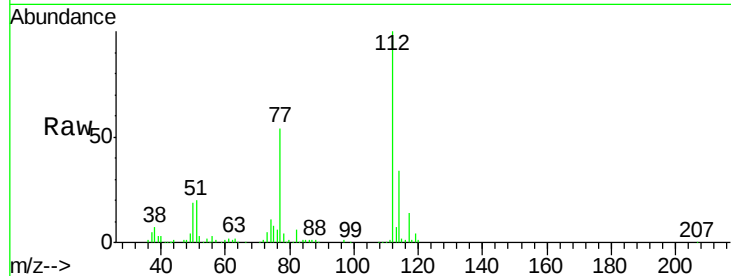
#65
Chlorobenzene
Concen: 22.133 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	279327		
114	33.7	26.2	39.4	

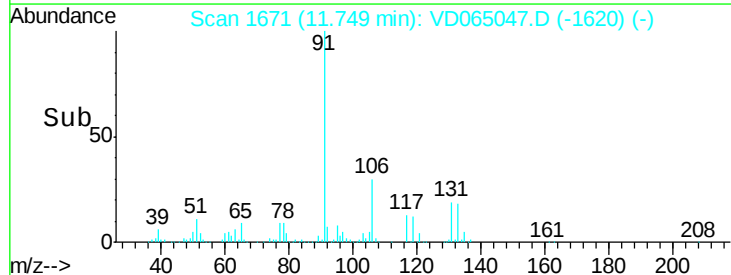
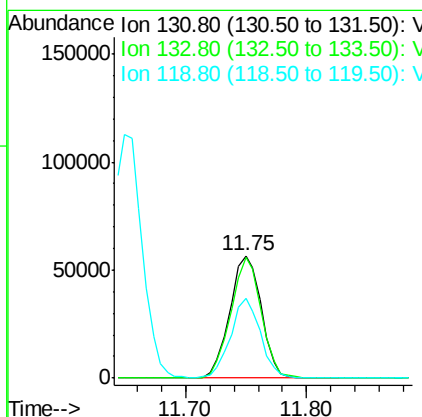
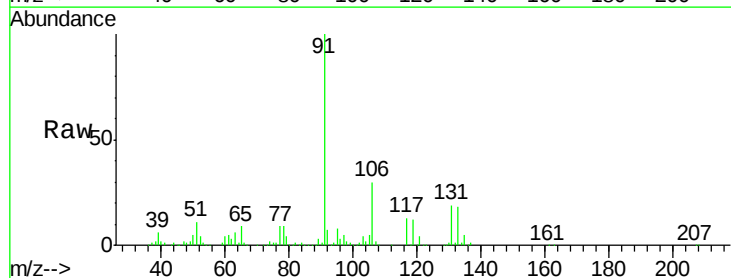
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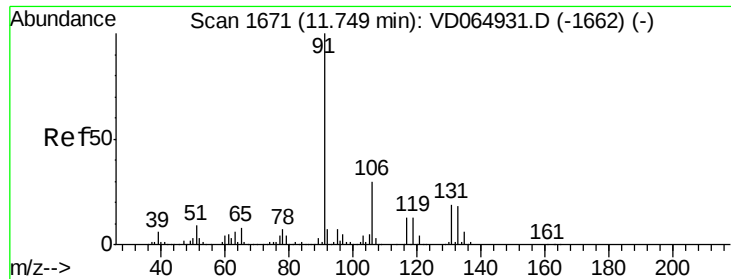
MMDadoda
2/4/2020 11:21:14 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.663 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	102820		
133	96.0	47.5	142.5	
119	62.1	31.1	93.5	





#67

Ethyl Benzene

Concen: 22.290 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 91 Resp: 499404

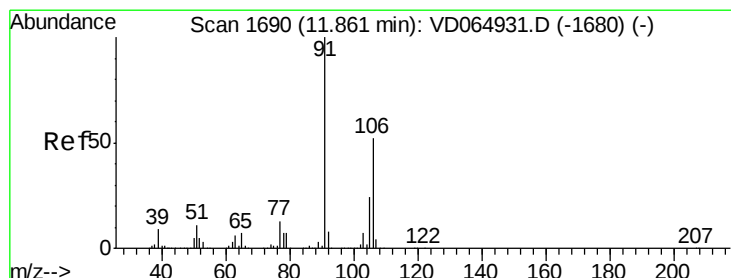
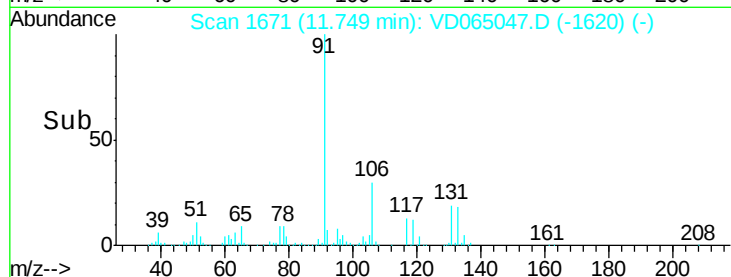
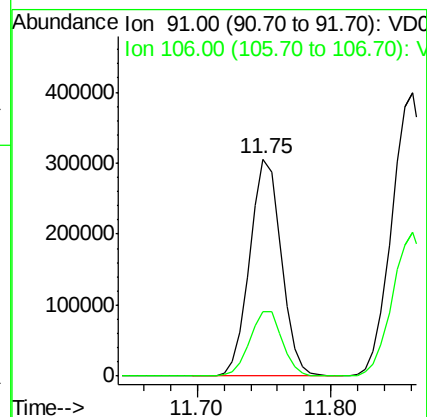
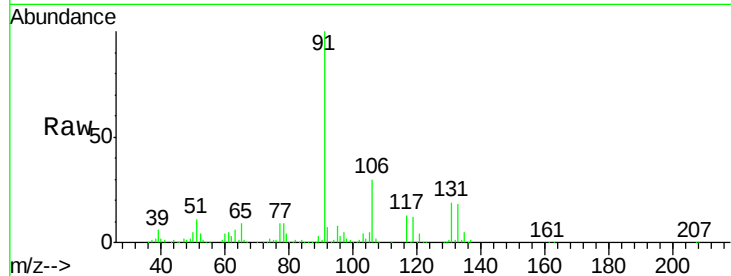
Ion Ratio Lower Upper

91 100

106 29.9 24.3 36.5

Manual Integrations
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2/4/2020 11:21:14 AM



#68

m/p-Xylenes

Concen: 44.457 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VD065047.D

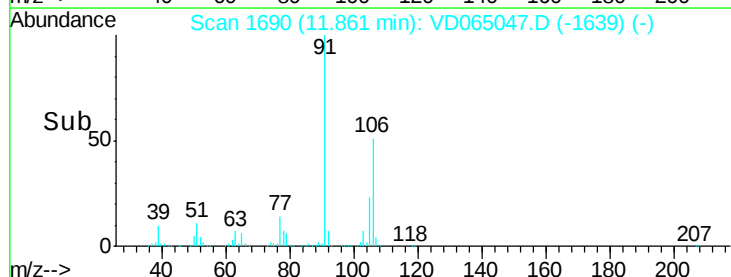
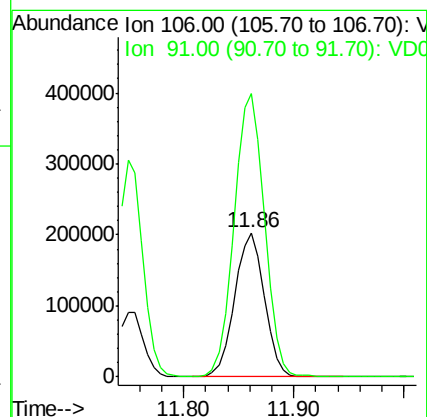
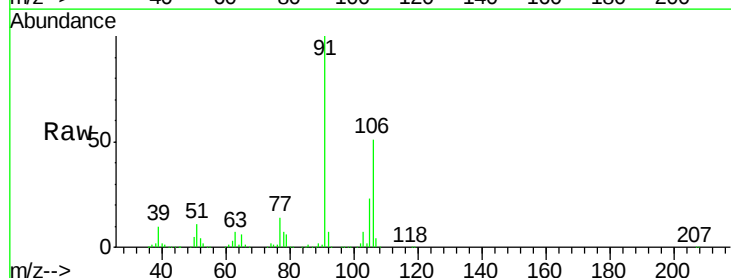
Acq: 03 Feb 2020 11:52

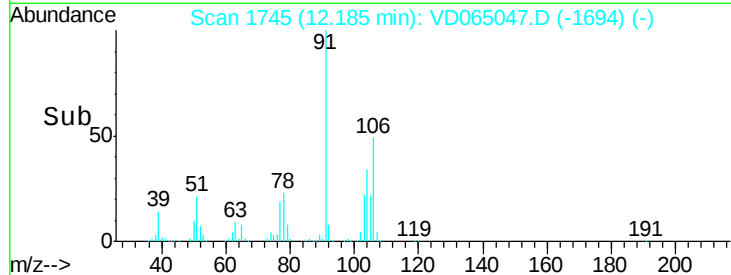
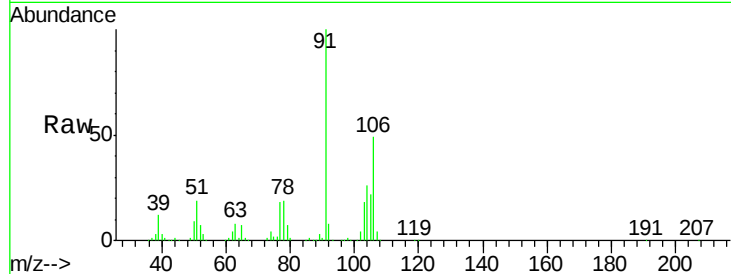
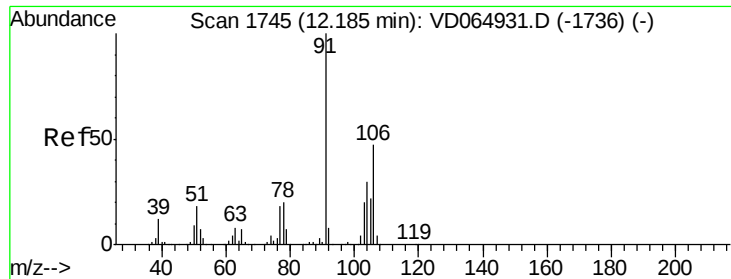
Tgt Ion: 106 Resp: 383504

Ion Ratio Lower Upper

106 100

91 200.7 159.0 238.4





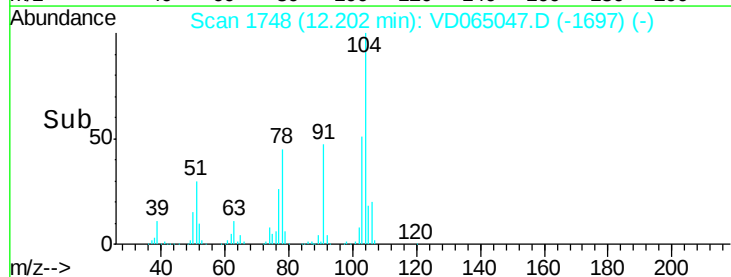
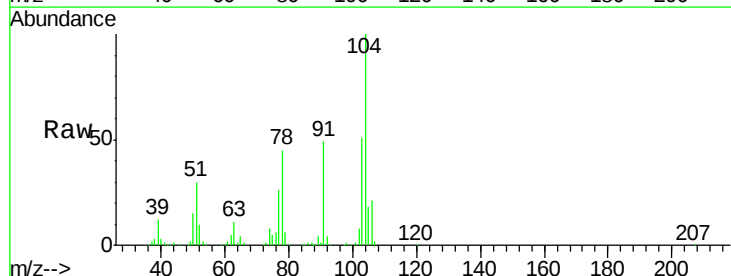
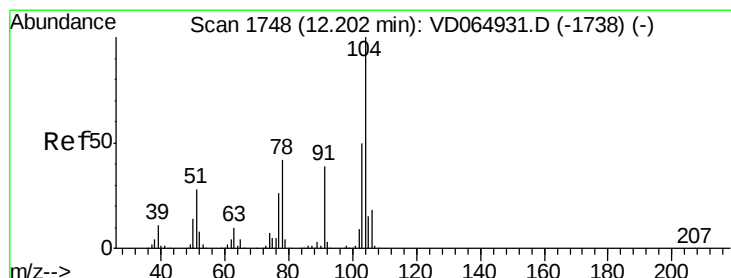
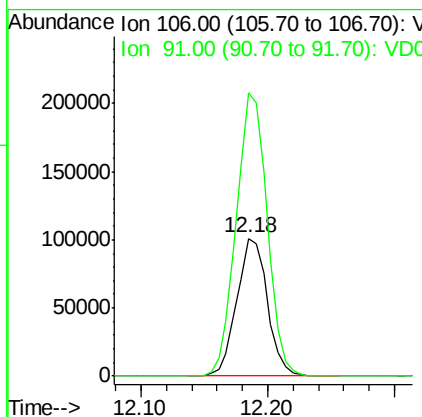
#69
o-Xylene
Concen: 22.025 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tot Ion:106 Resp: 168622
Ion Ratio Lower Upper
106 100
91 208.9 106.7 319.9

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

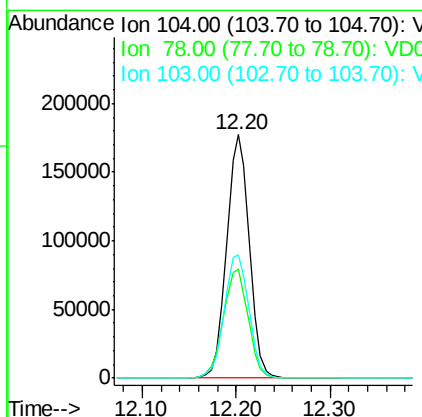
Manual Integrations
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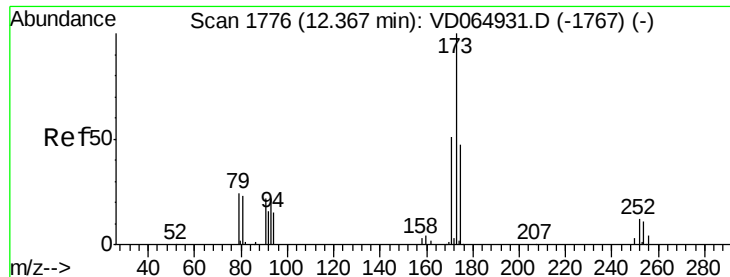
MMDadoda
2/4/2020 11:21:14 AM



#70
Styrene
Concen: 21.729 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion:104 Resp: 296340
Ion Ratio Lower Upper
104 100
78 49.1 38.3 57.5
103 55.5 43.5 65.3





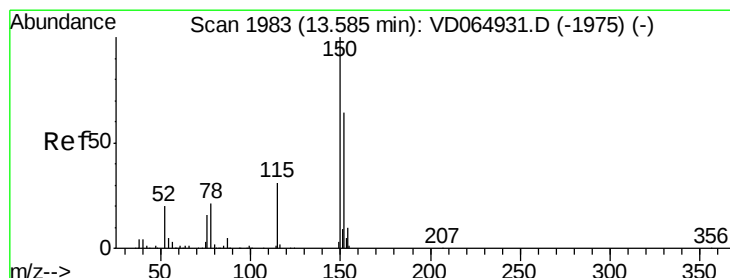
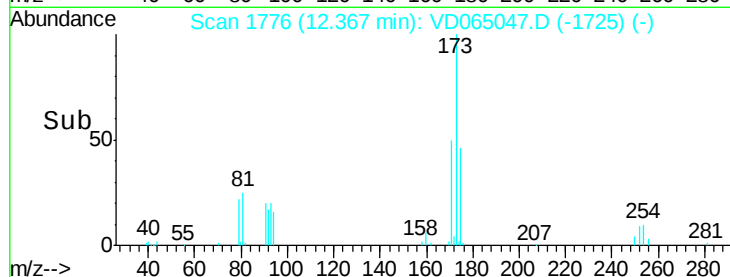
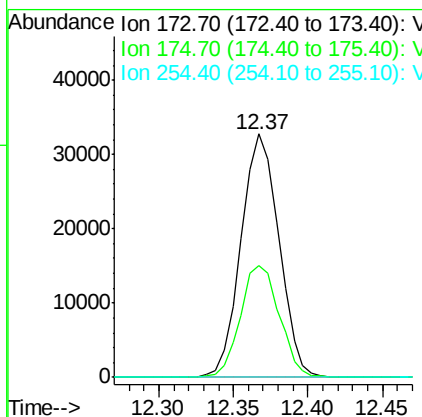
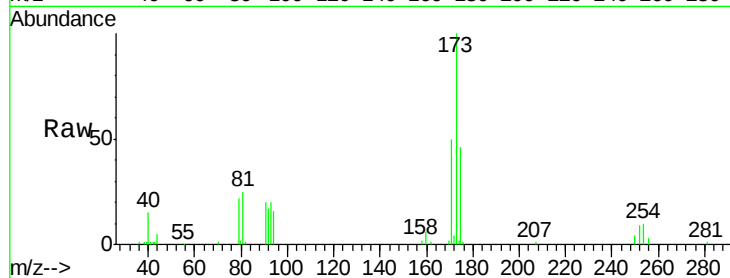
#71
Bromoform
Concen: 21.863 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.6	73.8
254	0.0	0.1	0.1#

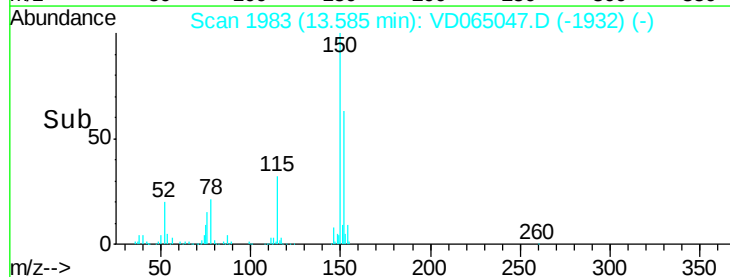
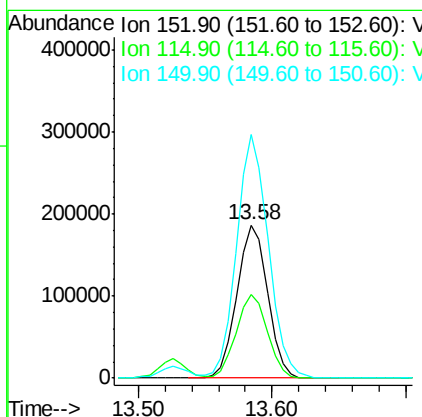
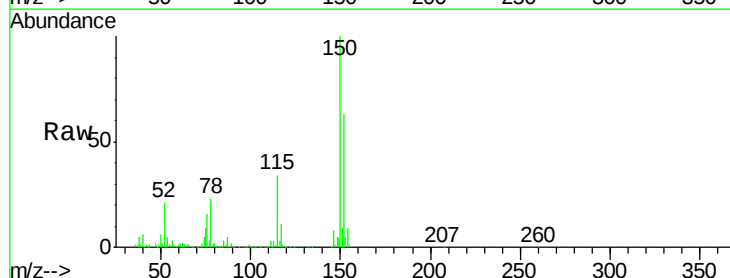
Manual Integrations
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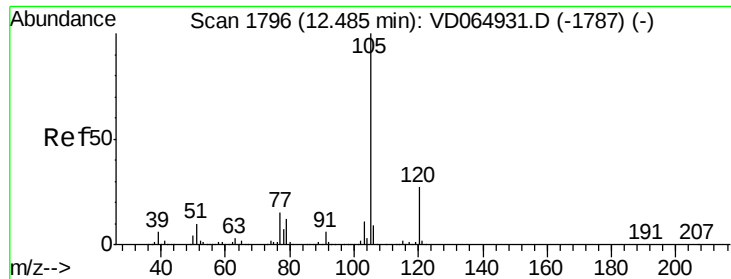
MMDadoda
2/4/2020 11:21:14 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	28.1	84.4
150	164.8	0.0	350.4





#73

Isopropylbenzene

Concen: 22.902 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 105 Resp: 464279

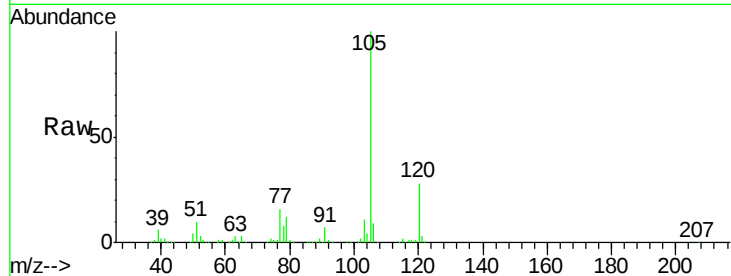
Ion Ratio Lower Upper

105 100

120 27.1 13.3 39.8

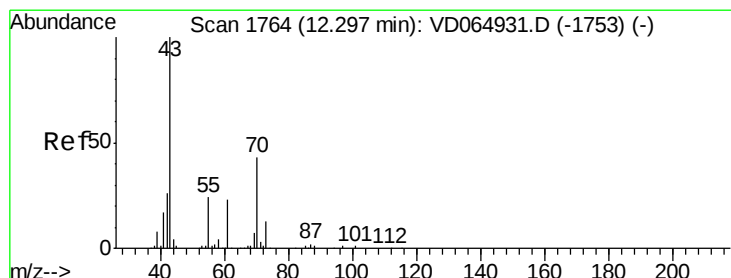
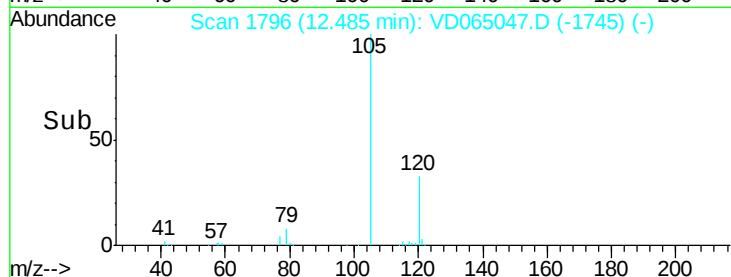
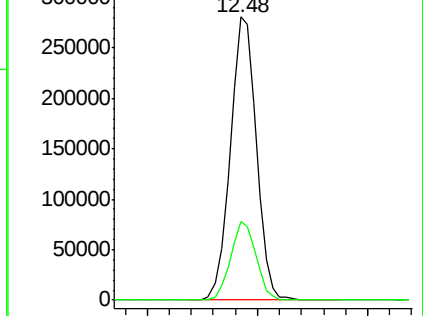
Manual Integrations
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MMDadoda
2/4/2020 11:21:14 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.550 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion: 43 Resp: 97760

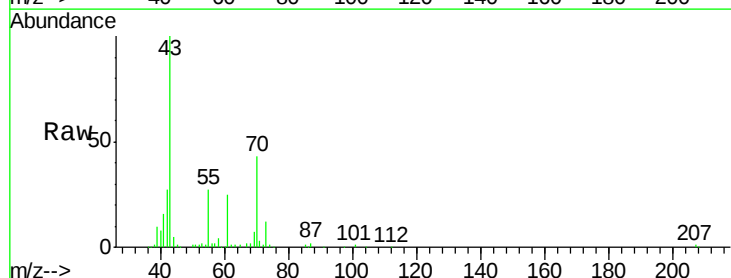
Ion Ratio Lower Upper

43 100

70 40.4 32.6 49.0

55 27.1 19.9 29.9

61 24.3 18.3 27.5

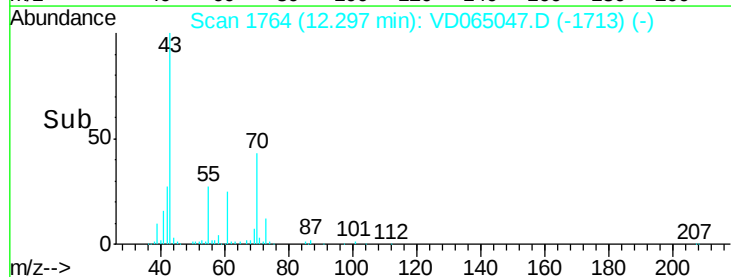
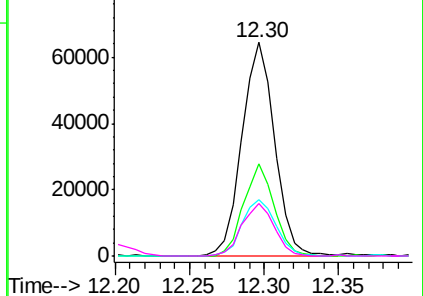


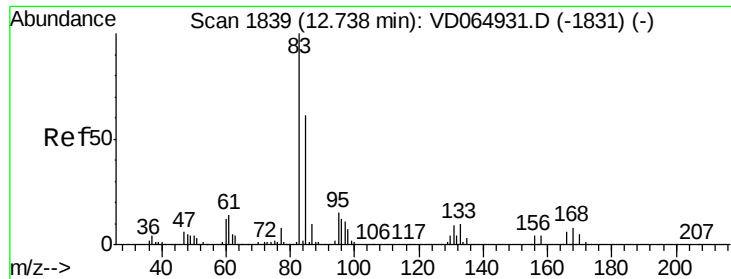
Abundance Ion 43.00 (42.70 to 43.70): V

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: 22.052 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

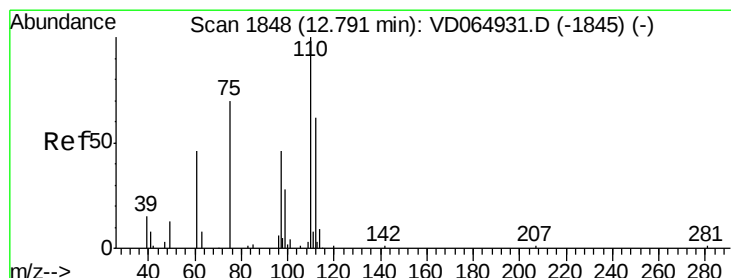
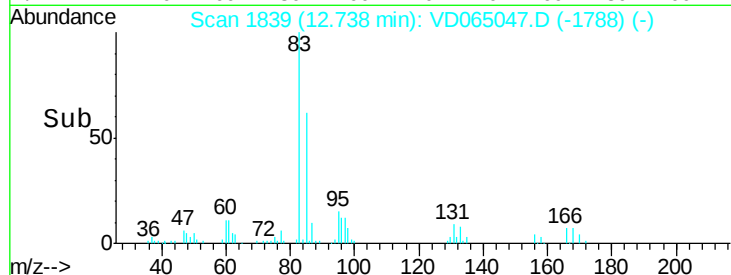
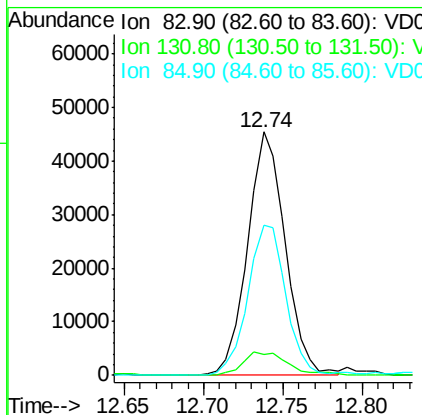
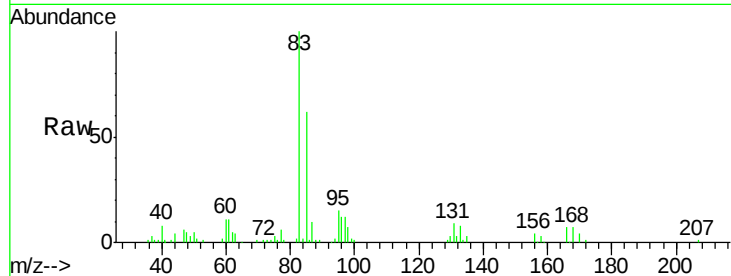
ClientSampleId :

VD0203SBSD01

Tot Ion:	83	Resp:	75135
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.5	16.4
85	62.3	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.186 ug/l m

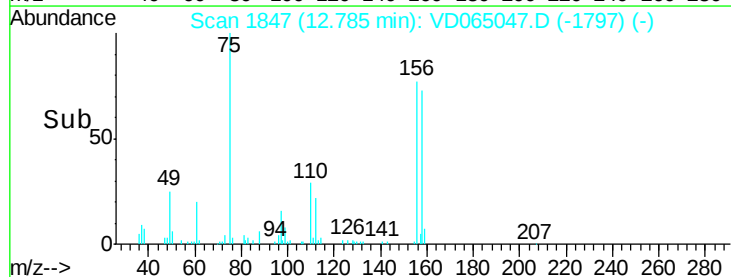
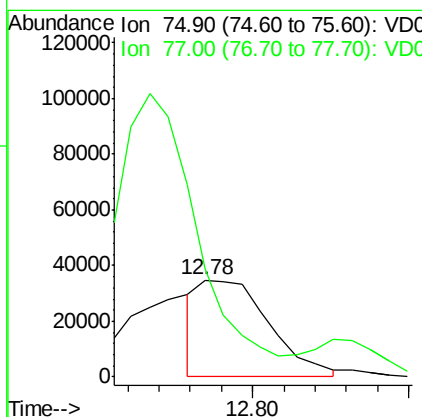
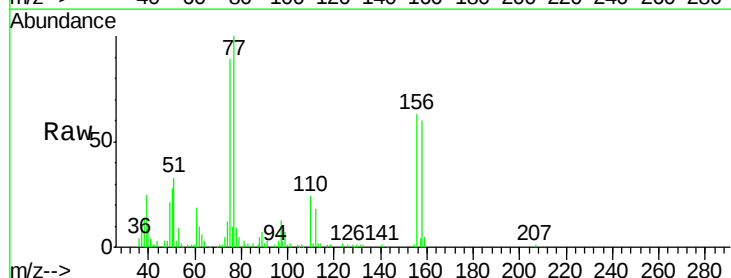
RT: 12.78 min Scan# 1847

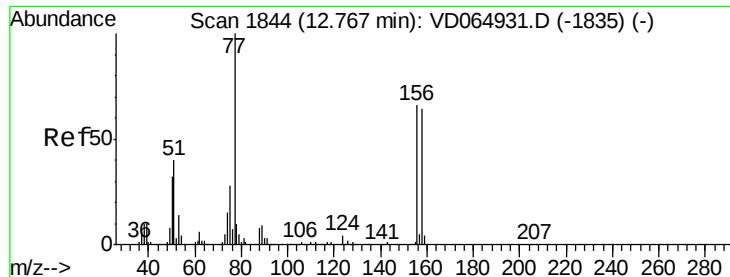
Delta R.T. -0.01 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Tgt Ion:	75	Resp:	54618
Ion Ratio	Lower	Upper	
75	100		
77	348.6	0.0	0.0#





#77

Bromobenzene

Concen: 22.801 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

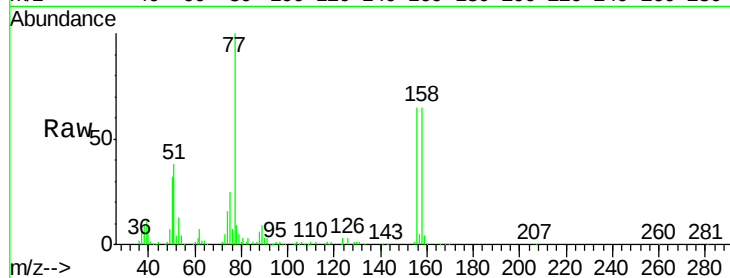
ClientSampleId :

VD0203SBS01

Tot Ion:	156	Resp:	113095
Ion Ratio	Lower	Upper	
156	100		
77	168.4	84.2	252.5
158	96.7	48.1	144.4

Manual Integrations
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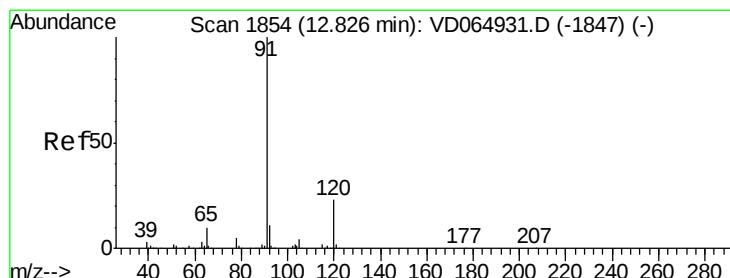
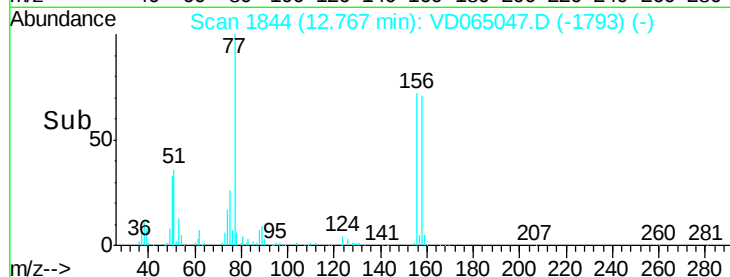
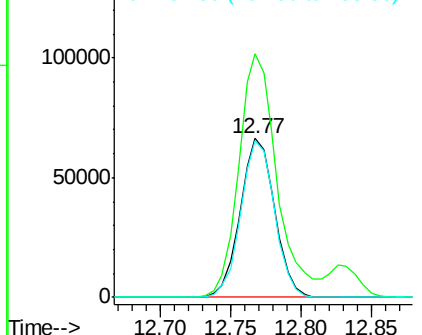
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 23.275 ug/l

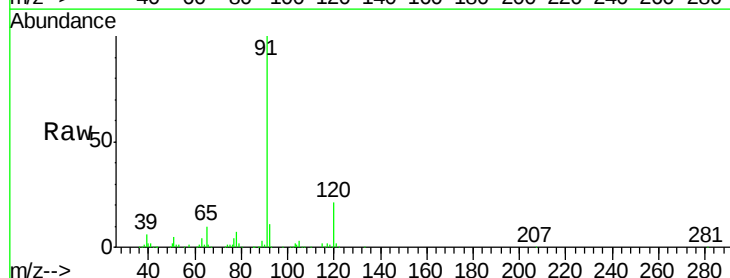
RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD065047.D

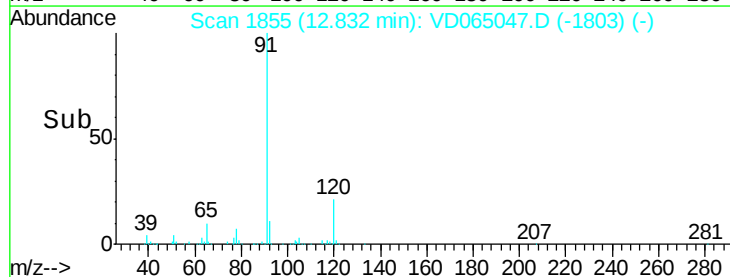
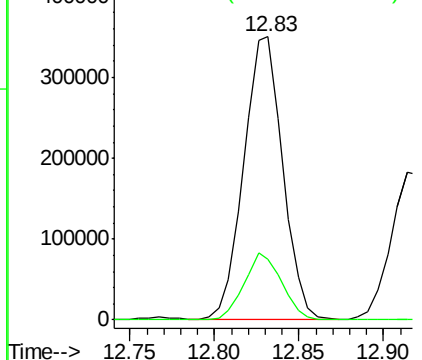
Acq: 03 Feb 2020 11:52

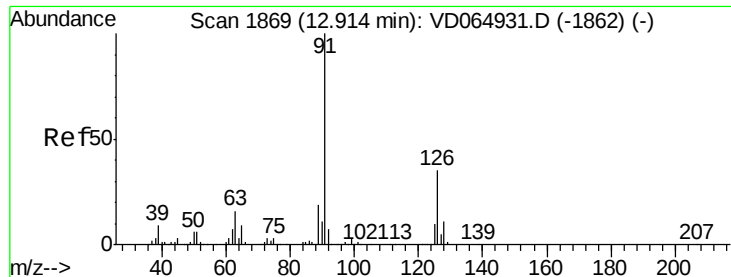
Tgt Ion:	91	Resp:	561121
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.7	35.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.219 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065047.D

Acq: 03 Feb 2020 11:52

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 91 Resp: 307085

Ion Ratio Lower Upper

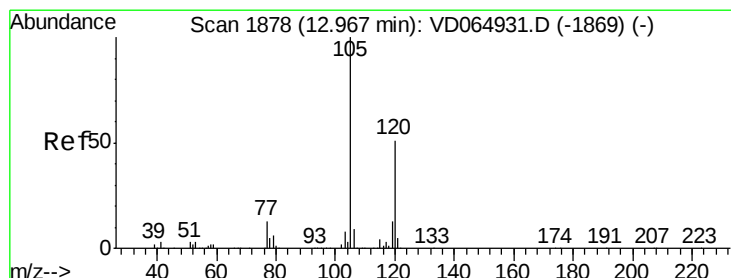
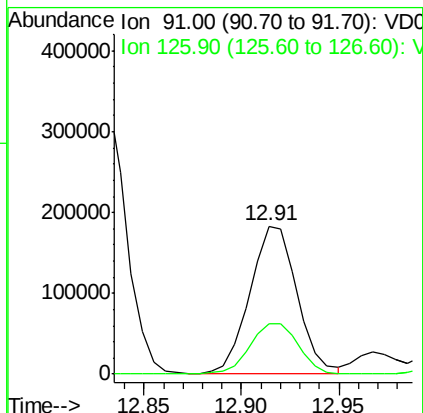
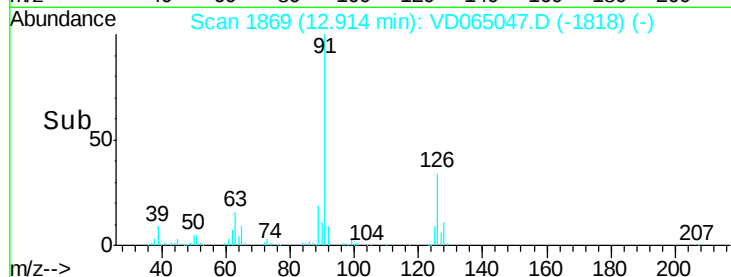
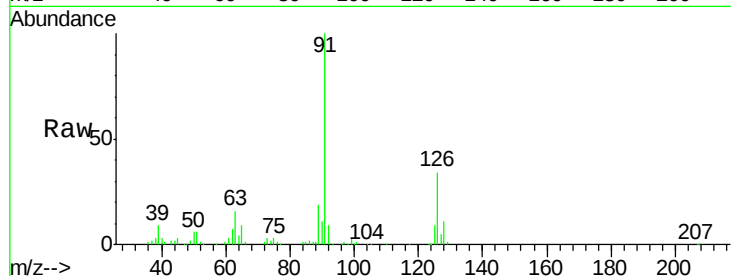
91 100

126 35.4 17.9 53.8

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 22.959 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065047.D

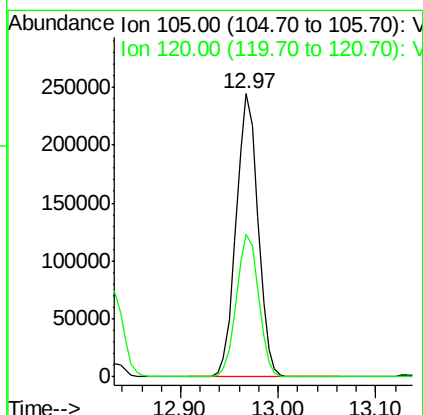
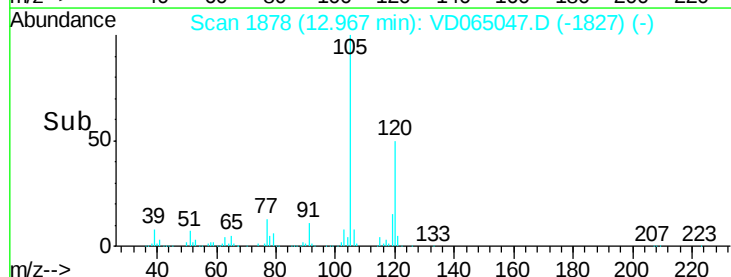
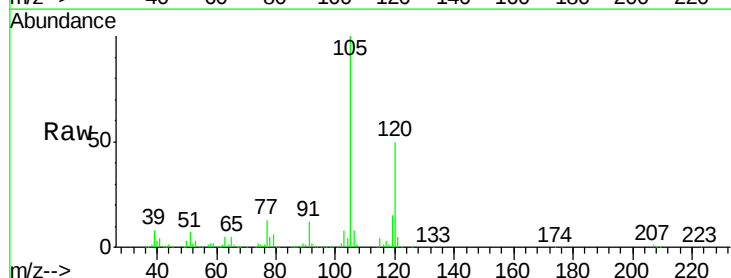
Acq: 03 Feb 2020 11:52

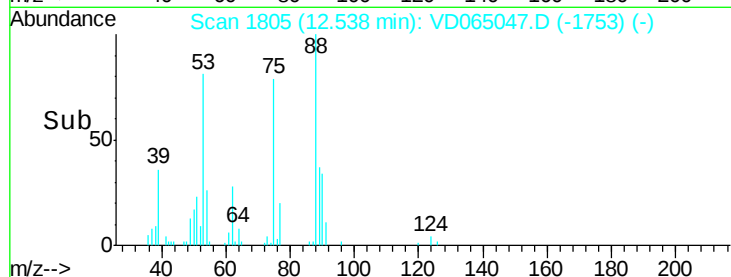
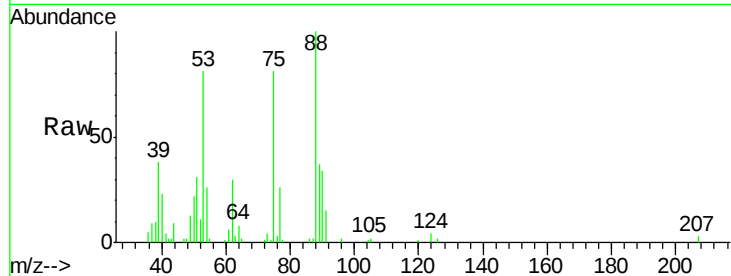
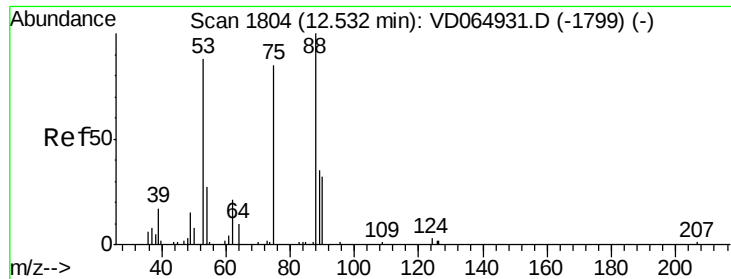
Tgt Ion: 105 Resp: 381423

Ion Ratio Lower Upper

105 100

120 51.1 25.6 76.8





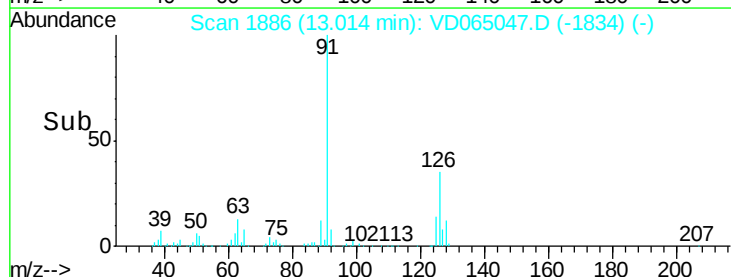
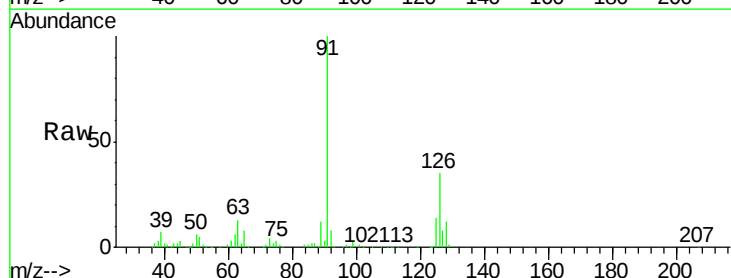
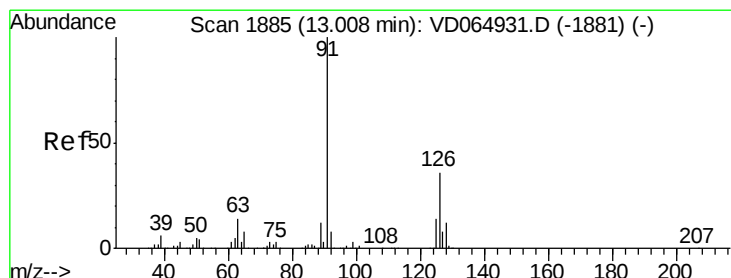
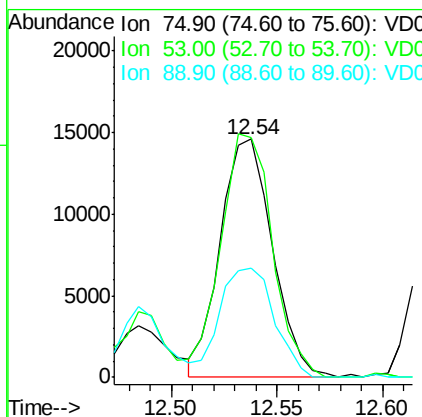
#81
trans-1,4-Dichloro-2-butene
Concen: 21.754 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tot Ion	Ratio	Lower	Upper
75	100		
53	102.0	81.0	121.4
89	47.9	36.2	54.4

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

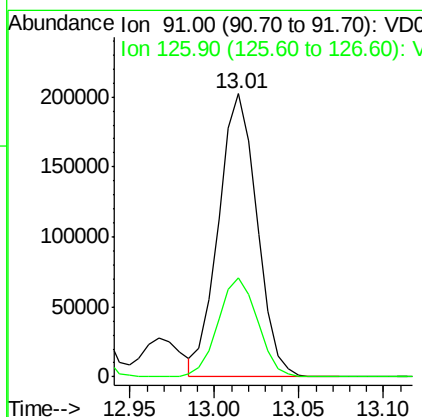
Manual Integrations
APPROVED

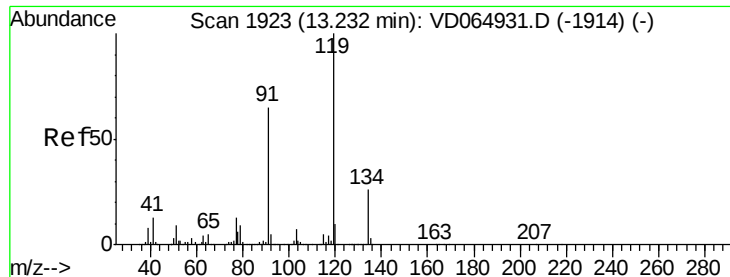
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#82
4-Chlorotoluene
Concen: 22.825 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.0	54.0





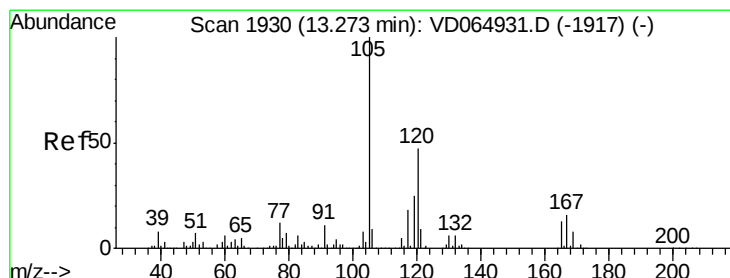
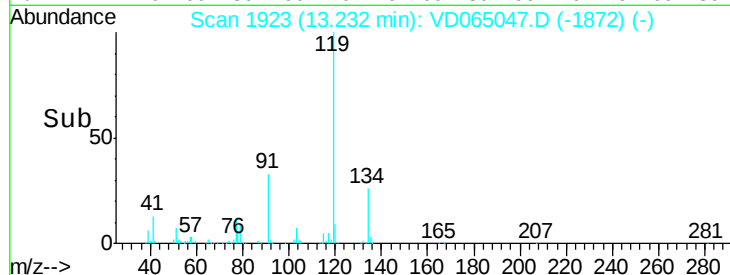
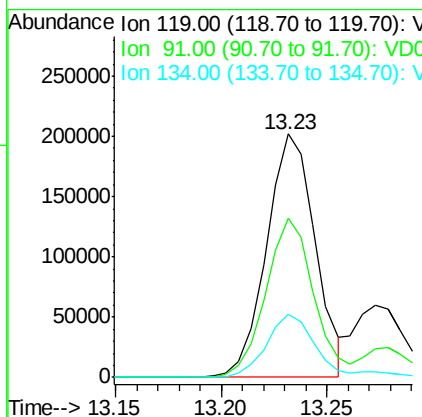
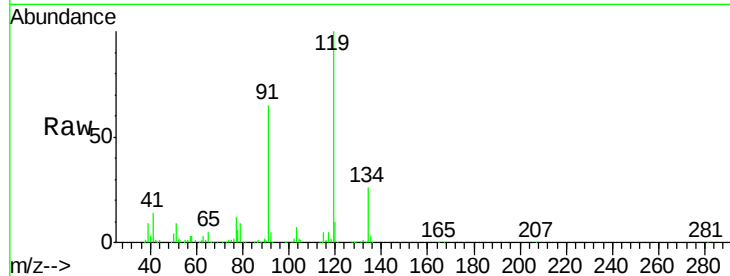
#83
tert-Butylbenzene
Concen: 22.971 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.5	32.0	96.0
134	27.1	13.9	41.6

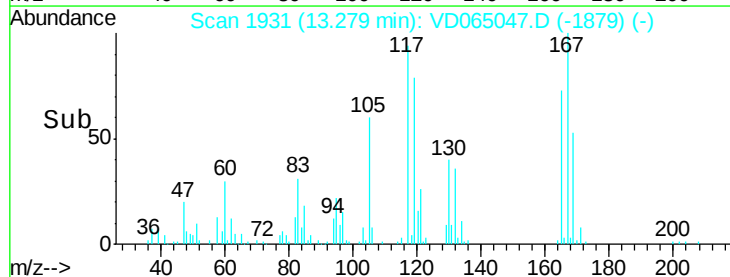
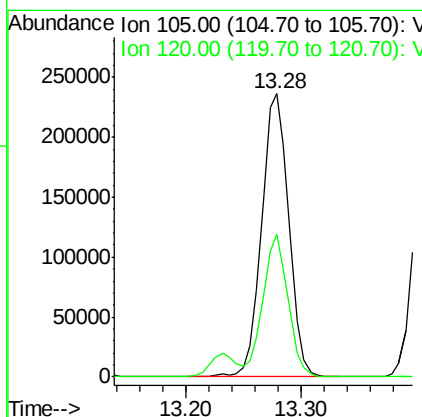
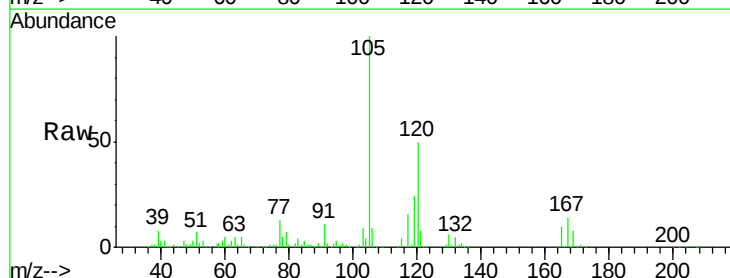
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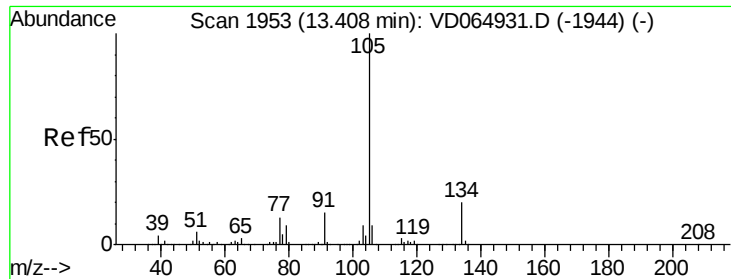
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#84
1,2,4-Trimethylbenzene
Concen: 22.979 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.1	69.3





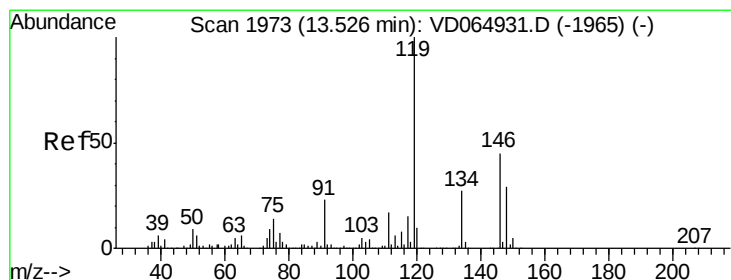
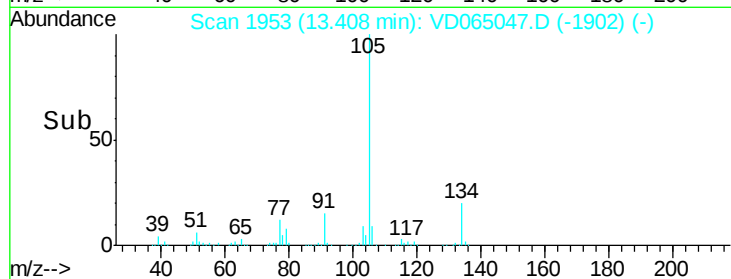
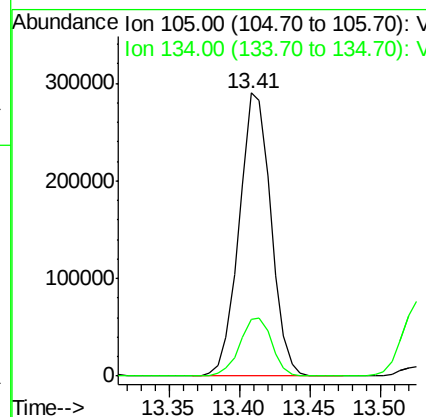
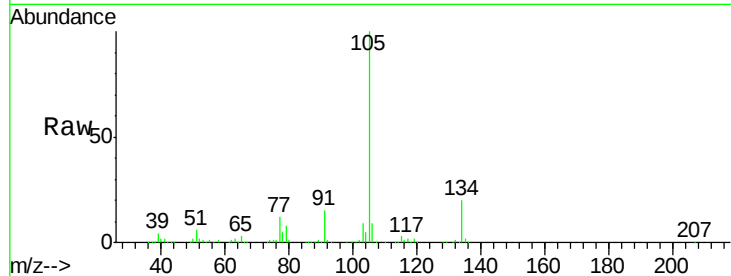
#85
 sec-Butylbenzene
 Concen: 22.835 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.4	31.4

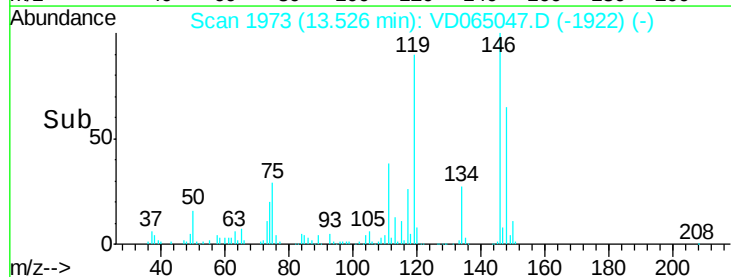
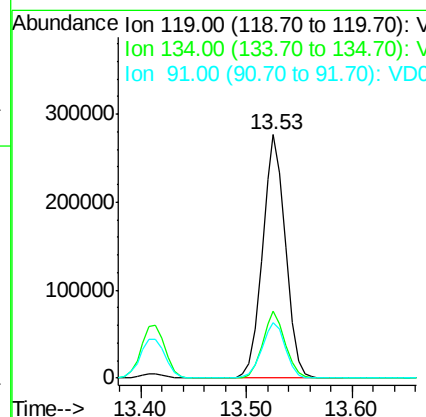
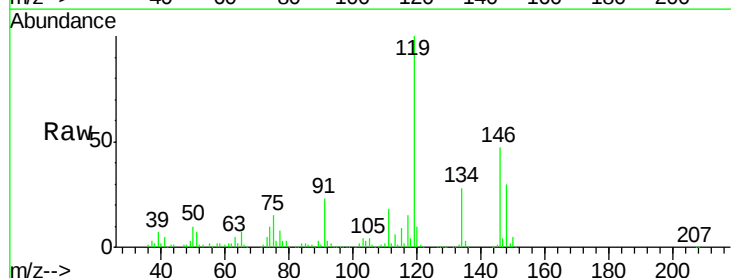
Manual Integrations
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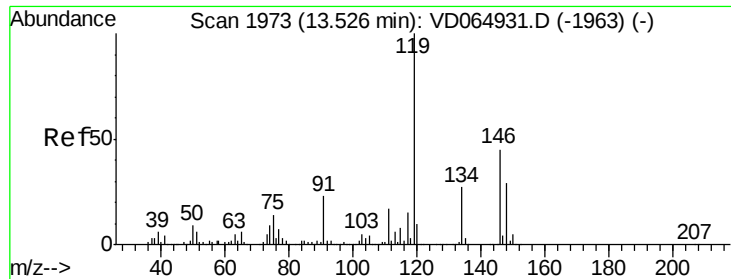
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 2/4/2020 11:21:14 AM



#86
 p-Isopropyltoluene
 Concen: 22.451 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.3	39.9
91	23.0	11.4	34.2





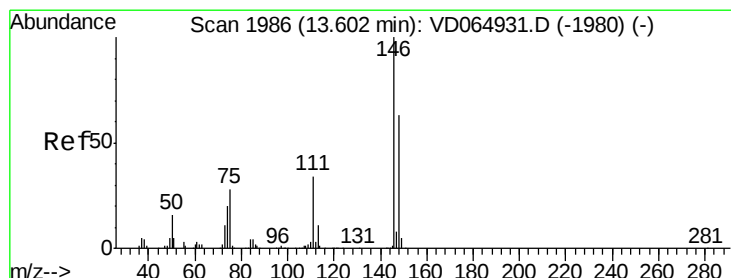
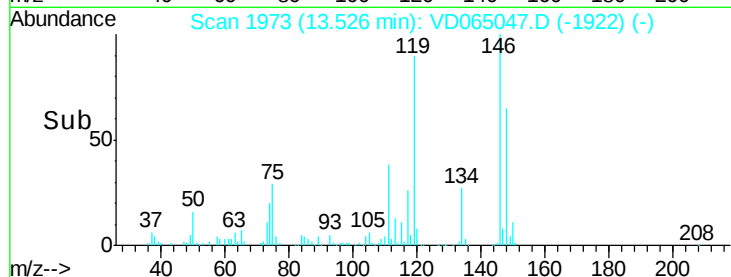
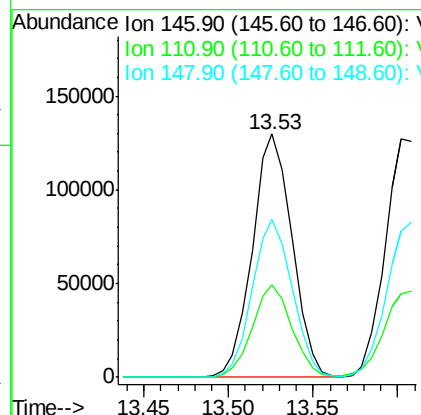
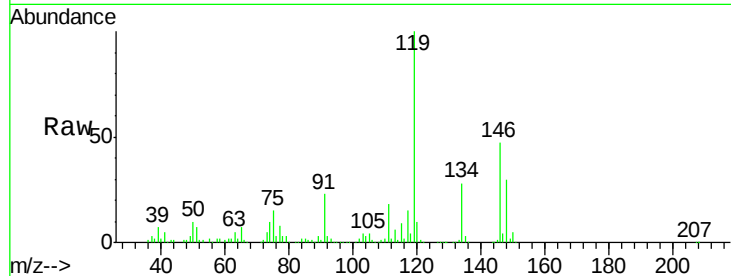
#87
 1,3-Dichlorobenzene
 Concen: 22.274 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	211984		
111	37.7	18.9	56.9	
148	65.0	32.6	97.7	

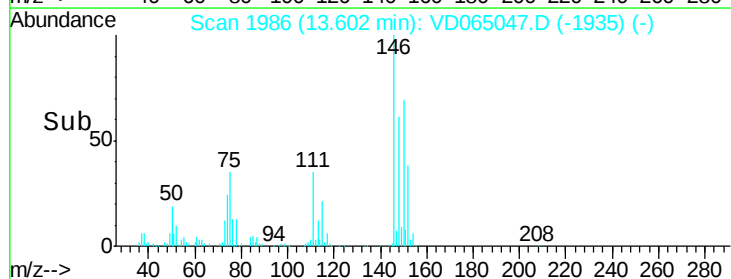
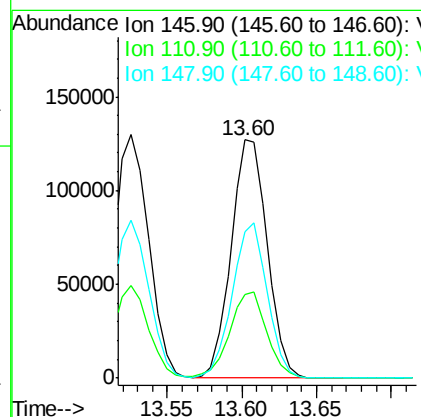
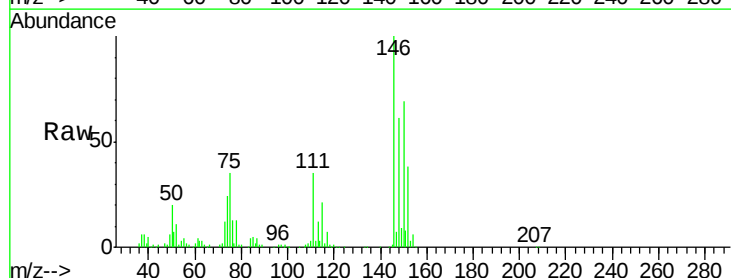
Manual Integrations
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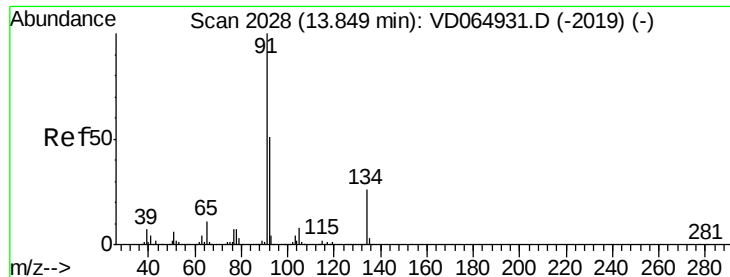
MMDadoda
 2/4/2020 11:21:14 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.769 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	215076		
111	37.2	18.2	54.6	
148	63.1	32.0	96.0	





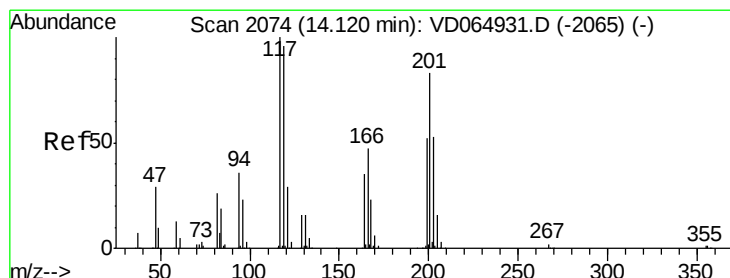
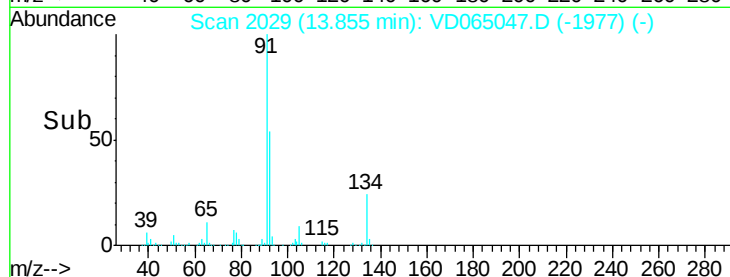
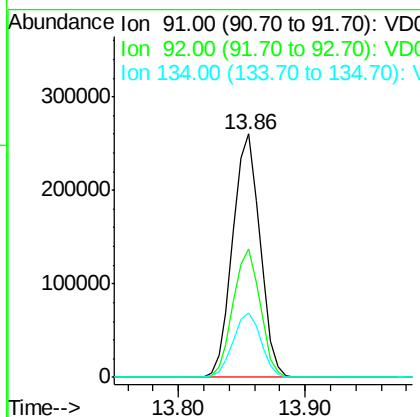
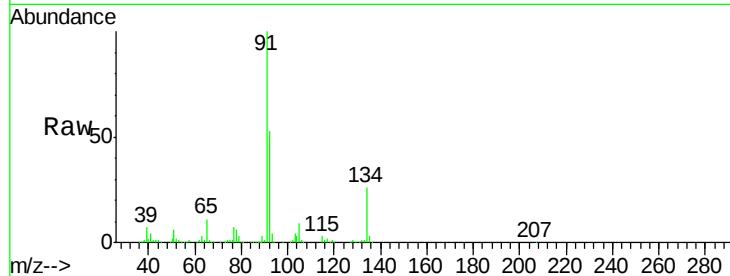
#89
n-Butylbenzene
Concen: 22.747 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.4	79.0
134	27.1	13.3	39.9

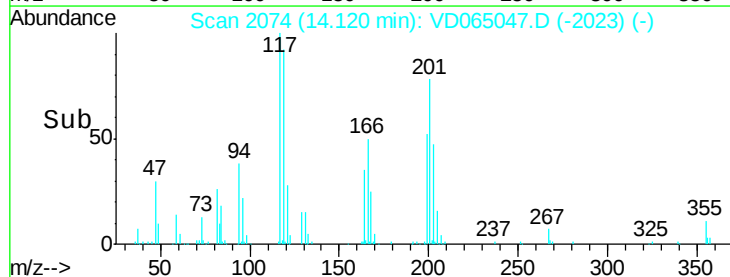
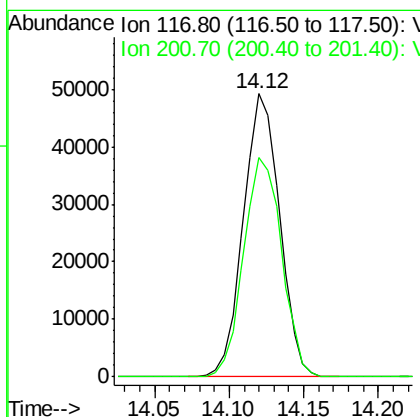
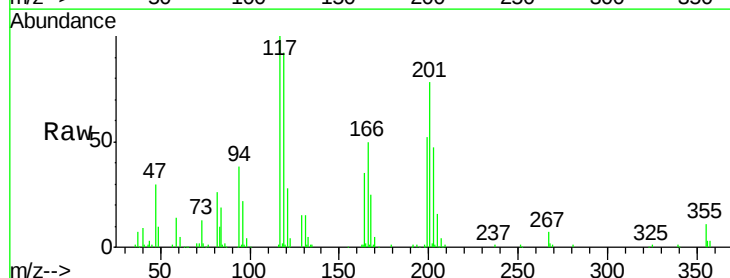
Manual Integrations
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#90
Hexachloroethane
Concen: 22.973 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.3	41.1	123.3





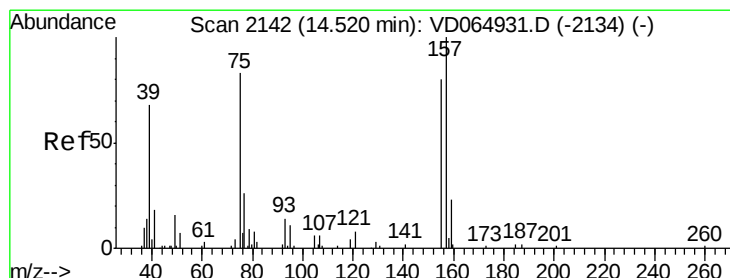
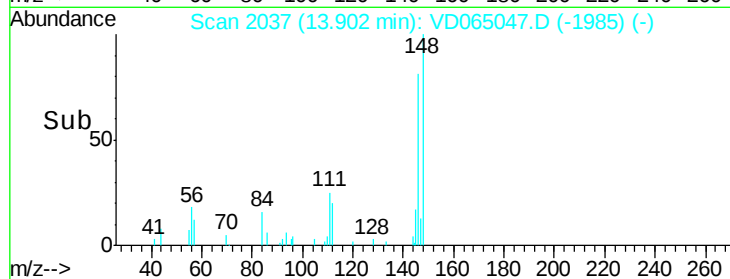
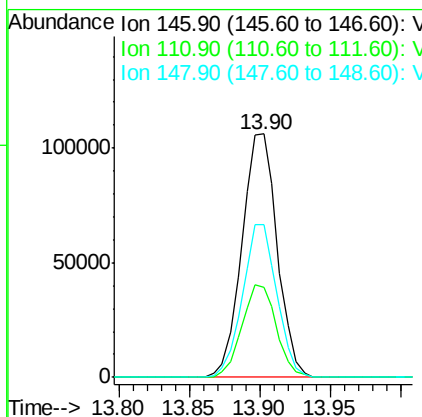
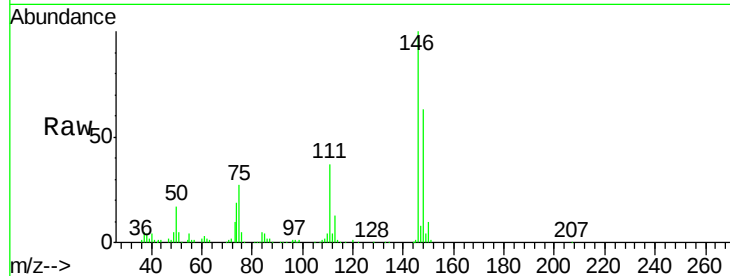
#91
 1,2-Dichlorobenzene
 Concen: 23.002 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	185851		
111	37.1	19.4	58.2	
148	61.2	31.6	95.0	

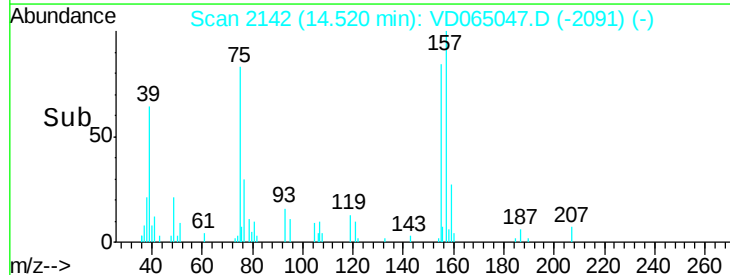
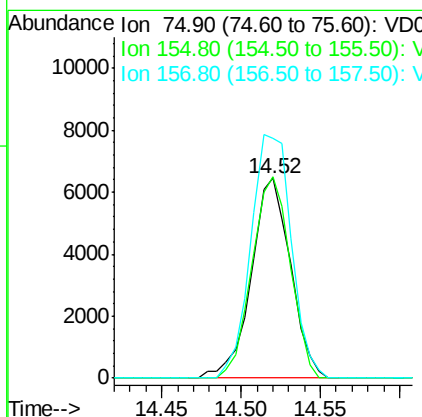
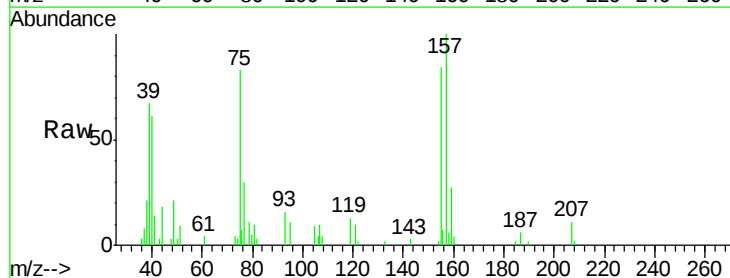
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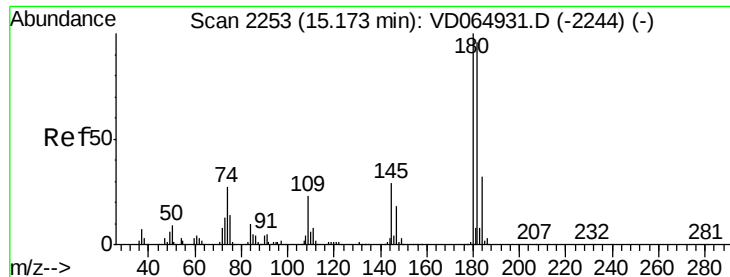
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.436 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	11143		
155	97.9	44.9	134.7	
157	126.0	58.9	176.6	





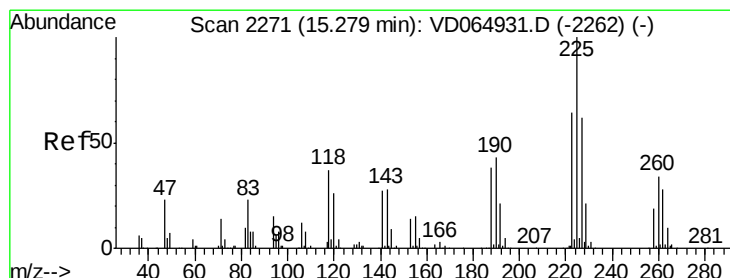
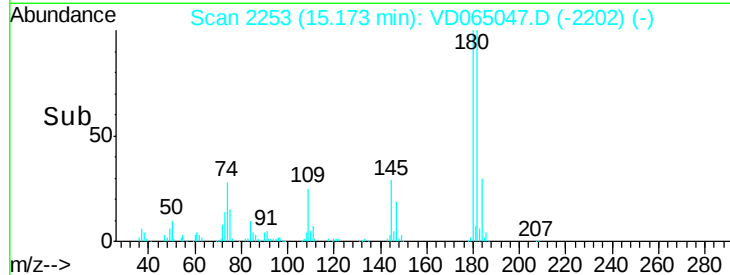
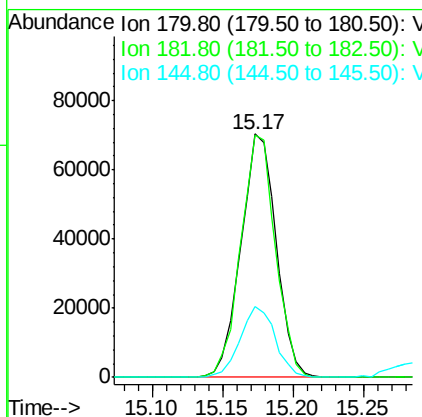
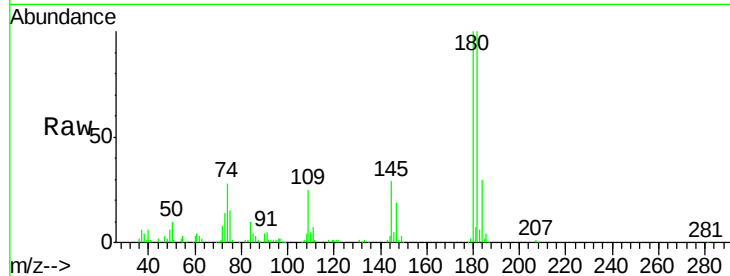
#93
 1,2,4-Trichlorobenzene
 Concen: 22.069 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	123358		
182	97.6	47.1	141.4	
145	28.8	14.1	42.3	

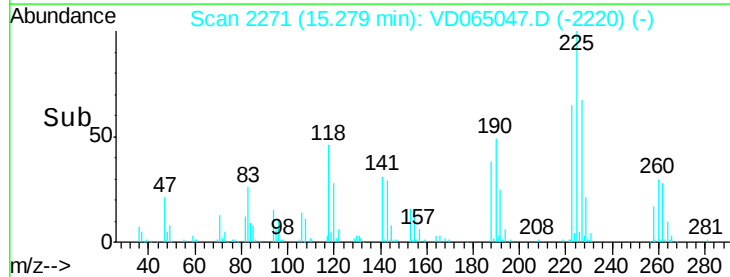
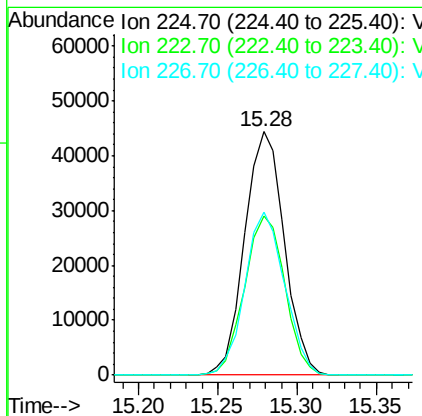
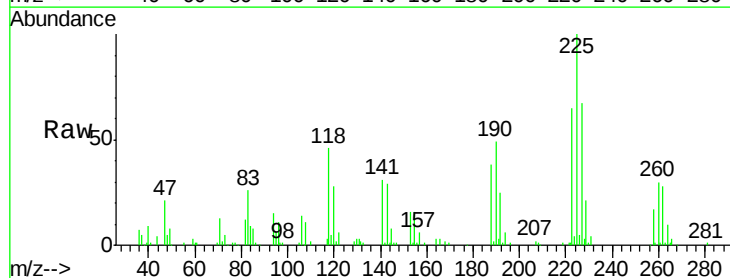
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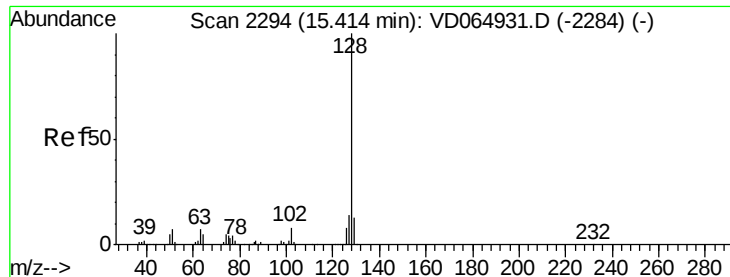
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#94
 Hexachlorobutadiene
 Concen: 21.860 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065047.D
 Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	77289		
223	66.2	32.4	97.2	
227	67.2	31.9	95.9	





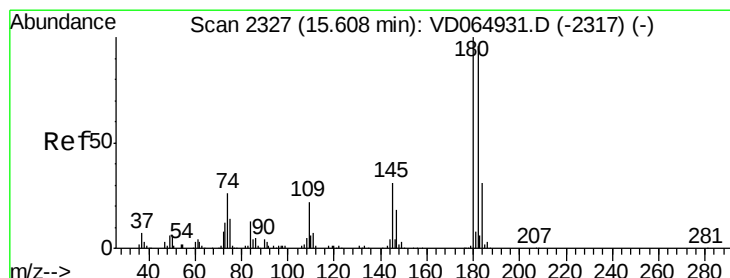
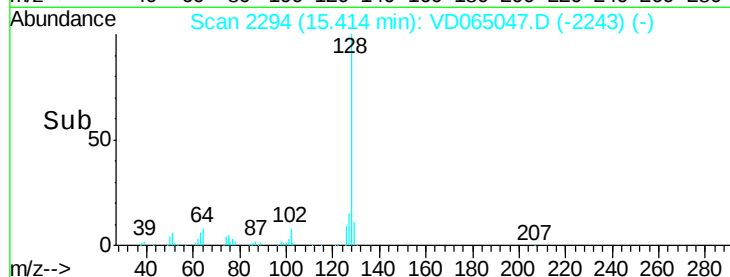
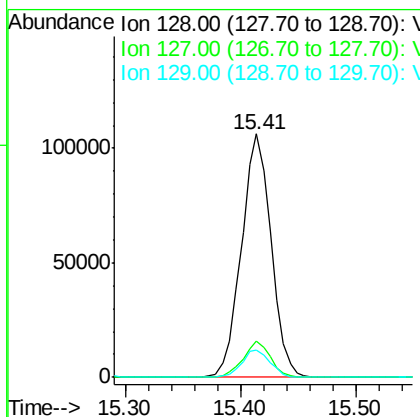
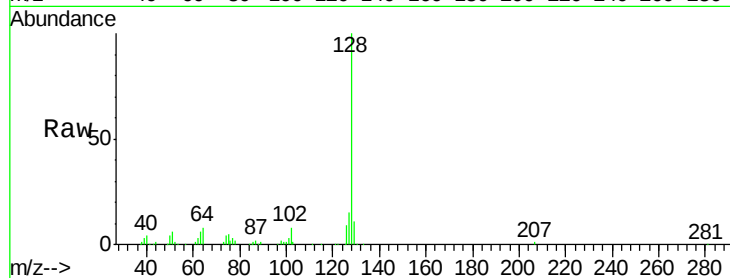
#95
Naphthalene
Concen: 21.019 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	189613		
127	13.8	10.6	15.8	
129	10.8	9.3	13.9	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 22.065 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065047.D
Acq: 03 Feb 2020 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	106940		
182	93.9	47.3	141.8	
145	31.0	14.6	43.8	

