

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022820\
 Data File : VD065354.D
 Acq On : 28 Feb 2020 12:09
 Operator : VA/SY
 Sample : VD0228SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 10:35:32 AM

Quant Time: Feb 28 16:33:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	453239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	680763	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	620983	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	299152	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	204307	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
35) Dibromofluoromethane	7.92	113	217173	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
50) Toluene-d8	10.34	98	842427	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.64	95	268961	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	69036	18.160	ug/l	95
3) Chloromethane	2.21	50	92081	19.030	ug/l	98
4) Vinyl Chloride	2.35	62	92549	18.810	ug/l	99
5) Bromomethane	2.77	94	56765	19.081	ug/l	97
6) Chloroethane	2.92	64	57017	18.985	ug/l	97
7) Trichlorofluoromethane	3.27	101	144515	20.515	ug/l	94
8) Diethyl Ether	3.71	74	42679	20.072	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.09	101	89137	20.038	ug/l	97
10) Methyl Iodide	4.29	142	91251	19.757	ug/l	99
11) Tert butyl alcohol	5.24	59	21482	88.168	ug/l #	87
12) 1,1-Dichloroethene	4.06	96	86233	20.521	ug/l	96
13) Acrolein	3.93	56	34034	96.018	ug/l	99
14) Allyl chloride	4.71	41	137542	20.156	ug/l	97
15) Acrylonitrile	5.44	53	96324	102.321	ug/l	100
16) Acetone	4.17	43	91399	91.701	ug/l	92
17) Carbon Disulfide	4.40	76	268691	19.072	ug/l	100
18) Methyl Acetate	4.73	43	49965	22.289	ug/l	98
19) Methyl tert-butyl Ether	5.48	73	175765	20.058	ug/l	98
20) Methylene Chloride	4.97	84	110023	22.237	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	97178	20.342	ug/l	97
22) Diisopropyl ether	6.37	45	277528	21.097	ug/l	98
23) Vinyl Acetate	6.31	43	709621	97.847	ug/l	99
24) 1,1-Dichloroethane	6.26	63	169135	20.728	ug/l	98
25) 2-Butanone	7.22	43	116052	92.028	ug/l	100
26) 2,2-Dichloropropane	7.21	77	145715	20.582	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	104537	20.659	ug/l	98
28) Bromochloromethane	7.55	49	59643	19.702	ug/l	98
29) Tetrahydrofuran	7.57	42	74728	101.137	ug/l	99
30) Chloroform	7.71	83	170715	20.767	ug/l	96
31) Cyclohexane	7.98	56	152608	19.035	ug/l	93
32) 1,1,1-Trichloroethane	7.91	97	153219	20.832	ug/l	99
36) 1,1-Dichloropropene	8.11	75	138888	20.968	ug/l	100
37) Ethyl Acetate	7.30	43	53782	19.422	ug/l	97
38) Carbon Tetrachloride	8.10	117	139115	20.631	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	155850	20.013	ug/l	95
40) Benzene	8.36	78	387486	20.725	ug/l	98
41) Methacrylonitrile	7.53	41	29314	18.334	ug/l	94
42) 1,2-Dichloroethane	8.43	62	104151	20.263	ug/l	100
43) Isopropyl Acetate	8.46	43	99540	19.768	ug/l	99
44) Trichloroethene	9.12	130	108333	20.903	ug/l	91
45) 1,2-Dichloropropane	9.40	63	96937	20.851	ug/l	97
46) Dibromomethane	9.48	93	49412	20.657	ug/l	100
47) Bromodichloromethane	9.67	83	129110	20.481	ug/l	96
48) Methyl methacrylate	9.46	41	44516	19.126	ug/l	94
49) 1,4-Dioxane	9.47	88	10913	388.989	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	251561	98.359	ug/l	100
52) Toluene	10.41	92	250576	21.652	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	119029	20.371	ug/l	96
54) cis-1,3-Dichloropropene	10.09	75	146037	20.698	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	71602	21.267	ug/l	99
56) Ethyl methacrylate	10.67	69	78171	20.116	ug/l	98
57) 1,3-Dichloropropane	10.95	76	117299	20.470	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	125048	102.068	ug/l	99
59) 2-Hexanone	10.99	43	176590	96.454	ug/l	97
60) Dibromochloromethane	11.14	129	90218	20.936	ug/l	99
61) 1,2-Dibromoethane	11.25	107	65900	20.673	ug/l	99
64) Tetrachloroethene	10.88	164	92994	21.115	ug/l	98
65) Chlorobenzene	11.68	112	262015	21.026	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	96070	20.659	ug/l	99
67) Ethyl Benzene	11.75	91	447605	20.509	ug/l	98
68) m/p-Xylenes	11.86	106	354957	42.509	ug/l	98
69) o-Xylene	12.19	106	154002	20.817	ug/l	100
70) Styrene	12.20	104	274373	20.890	ug/l	100
71) Bromoform	12.37	173	52577	20.375	ug/l #	99
73) Isopropylbenzene	12.48	105	425757	21.497	ug/l	100
74) N-amyl acetate	12.30	43	87774	19.945	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	74821	20.932	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	50700m	19.919	ug/l	
77) Bromobenzene	12.77	156	105193	21.389	ug/l	99
78) n-propylbenzene	12.83	91	518261	21.775	ug/l	99
79) 2-Chlorotoluene	12.91	91	286159	21.462	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	361644	22.170	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.54	75	23804	20.193	ug/l	93
82) 4-Chlorotoluene	13.01	91	303228	21.422	ug/l	97
83) tert-Butylbenzene	13.23	119	294593	21.548	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	357240	21.880	ug/l	100
85) sec-Butylbenzene	13.41	105	420049	21.322	ug/l	100
86) p-Isopropyltoluene	13.53	119	388835	21.583	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	202556	21.305	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	201104	21.432	ug/l	99
89) n-Butylbenzene	13.86	91	352069	21.207	ug/l	98
90) Hexachloroethane	14.12	117	77875	21.289	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	172839	21.172	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	10812	19.628	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	114953	21.527	ug/l	98
94) Hexachlorobutadiene	15.28	225	71842	20.973	ug/l	98
95) Naphthalene	15.41	128	178466	20.558	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	102901	22.064	ug/l	98

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

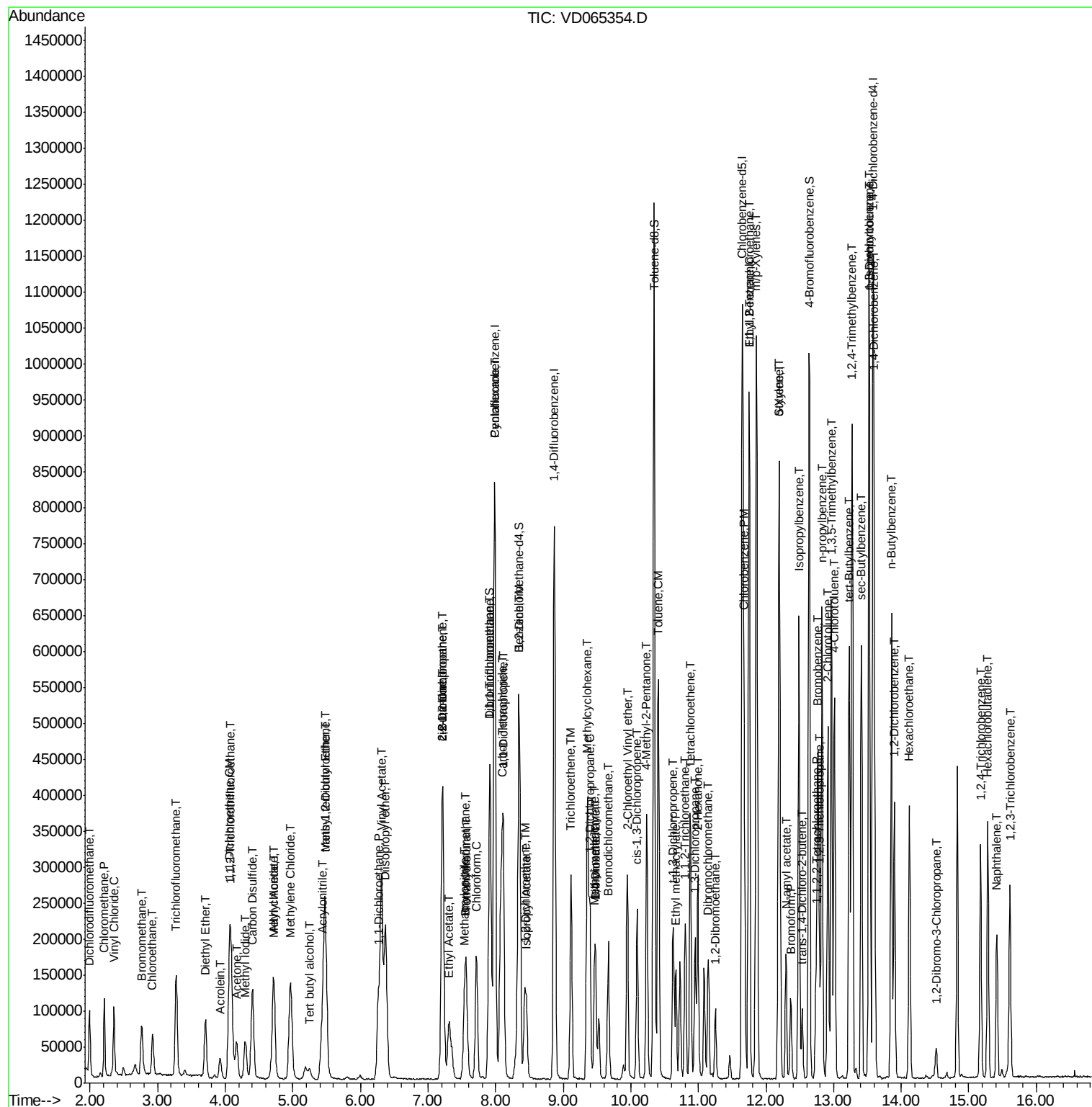
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022820\
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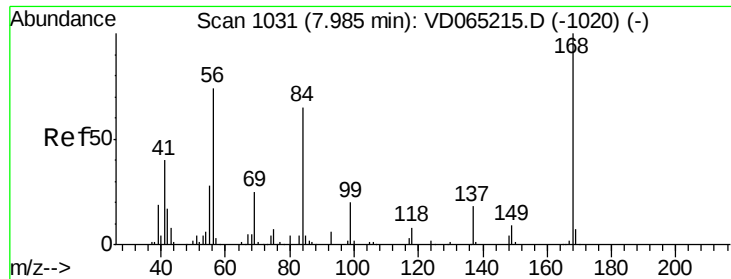
Instrument :
MSVOA_D
Client Sample Id :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion:168 Resp: 453239

Ion Ratio Lower Upper

168 100

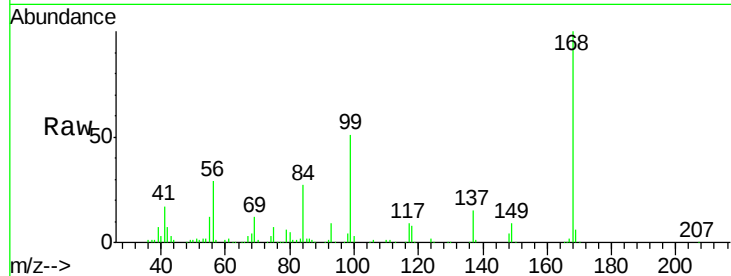
99 51.0 41.4 62.2

Manual Integrations

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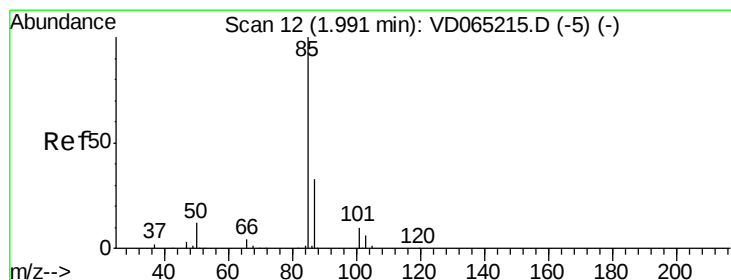
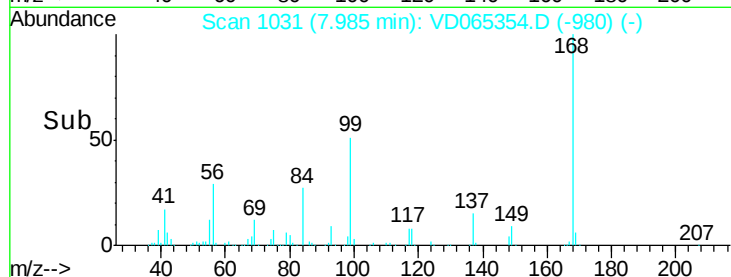
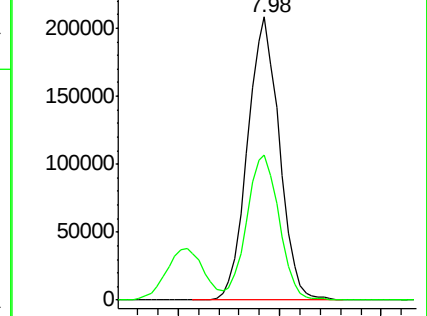
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 18.160 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065354.D

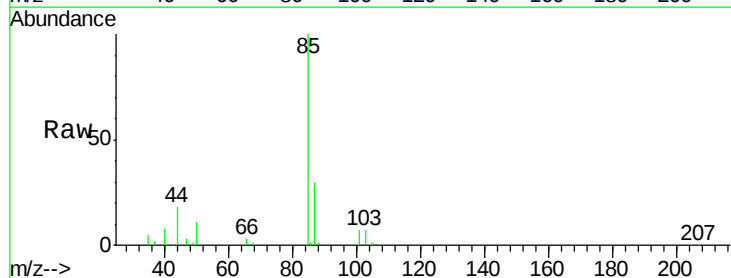
Acq: 28 Feb 2020 12:09

Tgt Ion: 85 Resp: 69036

Ion Ratio Lower Upper

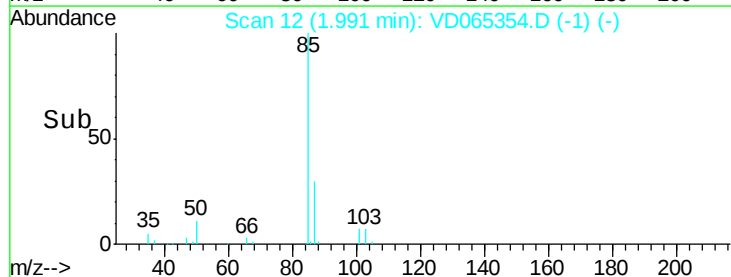
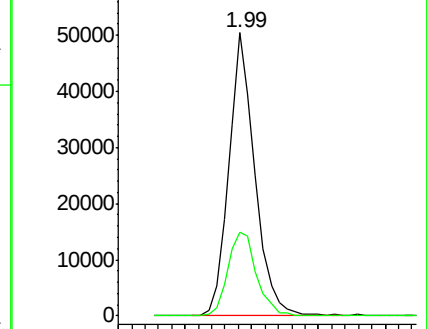
85 100

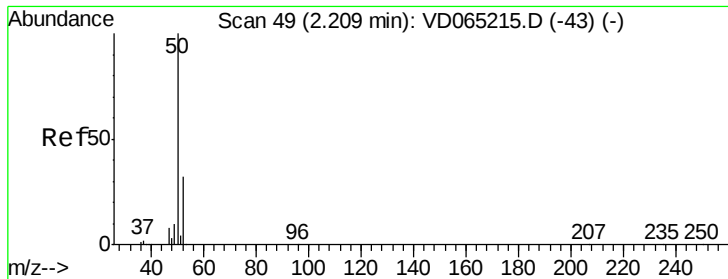
87 29.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.030 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 50 Resp: 92081

Ion Ratio Lower Upper

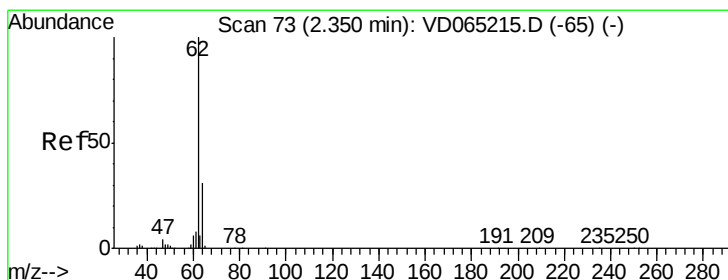
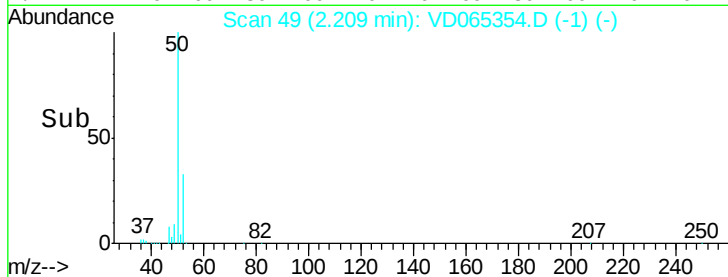
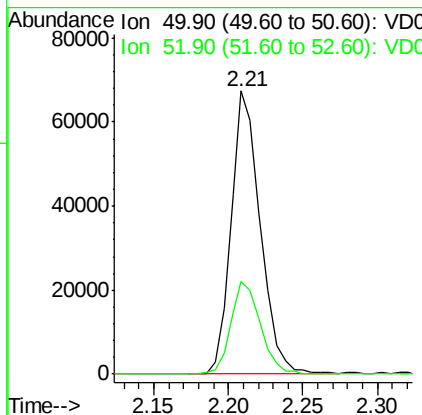
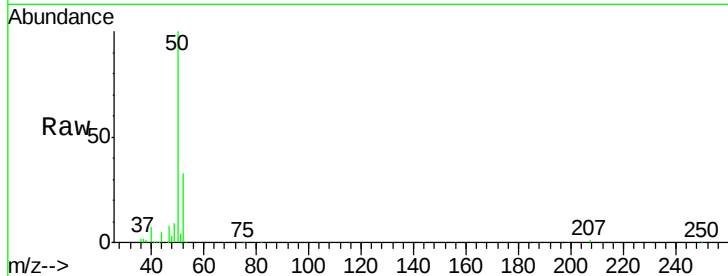
50 100

52 32.9 25.5 38.3

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.810 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065354.D

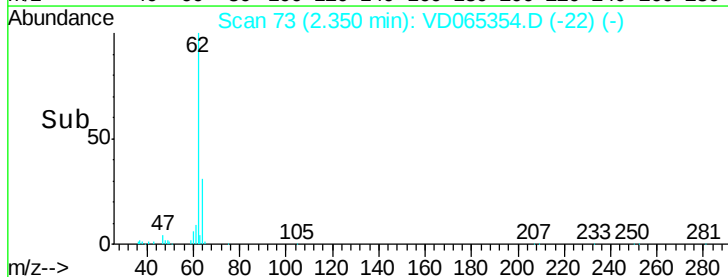
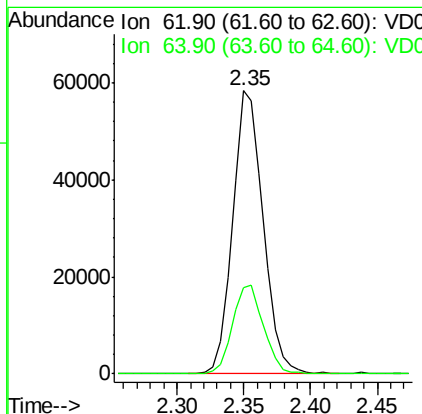
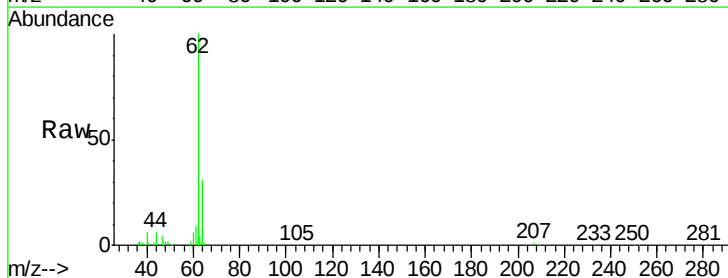
Acq: 28 Feb 2020 12:09

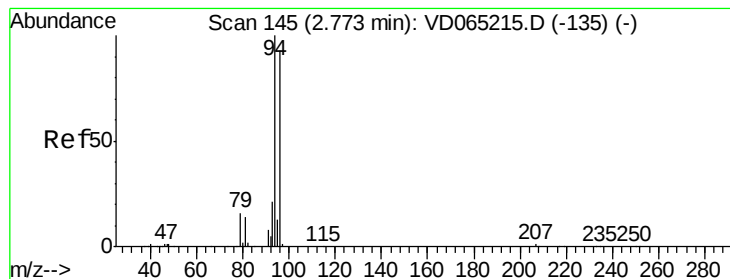
Tgt Ion: 62 Resp: 92549

Ion Ratio Lower Upper

62 100

64 30.7 25.0 37.6





#5

Bromomethane

Concen: 19.081 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

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ClientSampleId :

VD0228SBS01

Tot Ion: 94 Resp: 56765

Ion Ratio Lower Upper

94 100

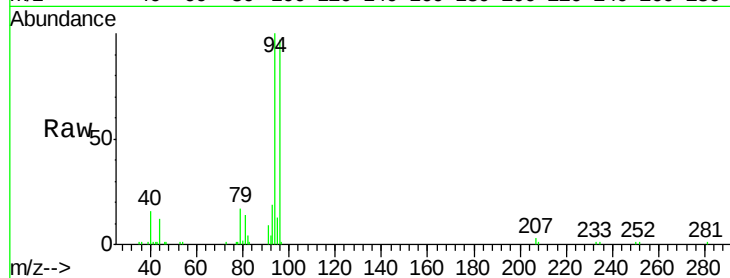
96 96.0 74.2 111.4

Manual Integrations

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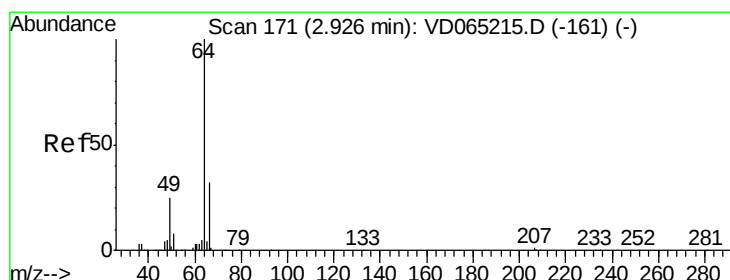
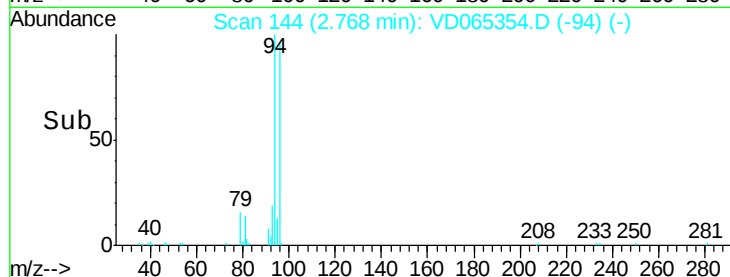
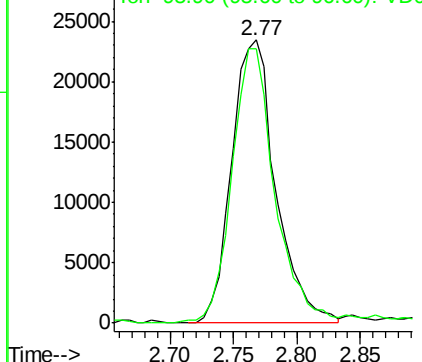
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 18.985 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065354.D

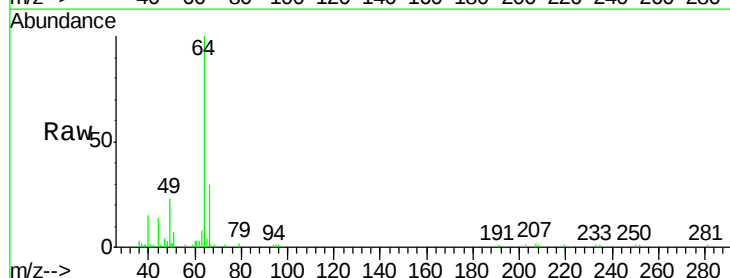
Acq: 28 Feb 2020 12:09

Tgt Ion: 64 Resp: 57017

Ion Ratio Lower Upper

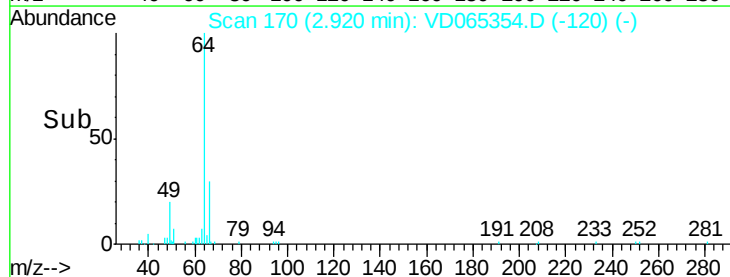
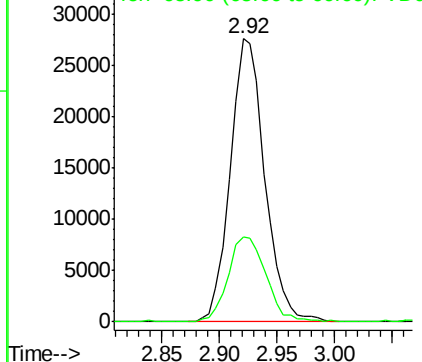
64 100

66 30.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

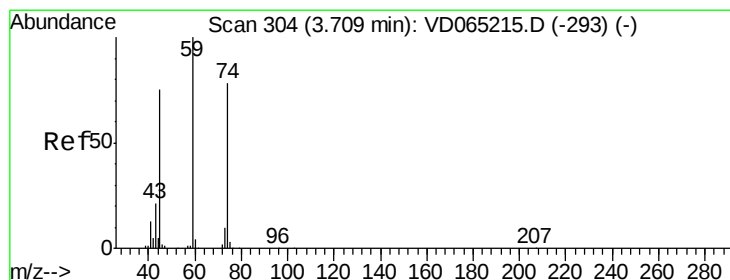
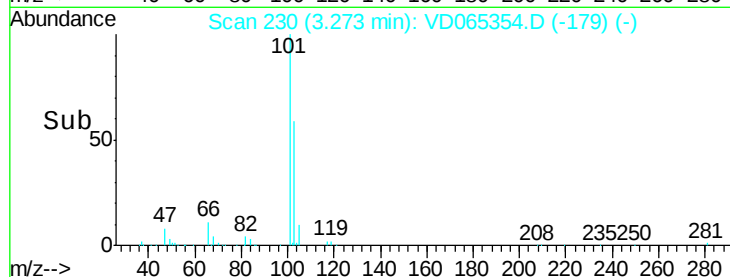
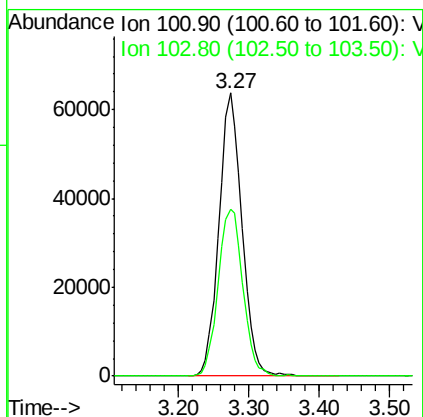
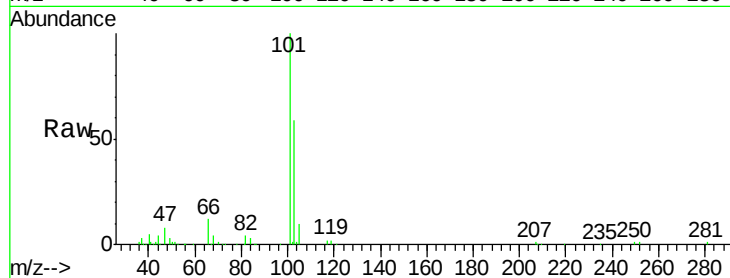
Trichlorofluoromethane
 Concen: 20.515 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	58.8	50.7	76.1

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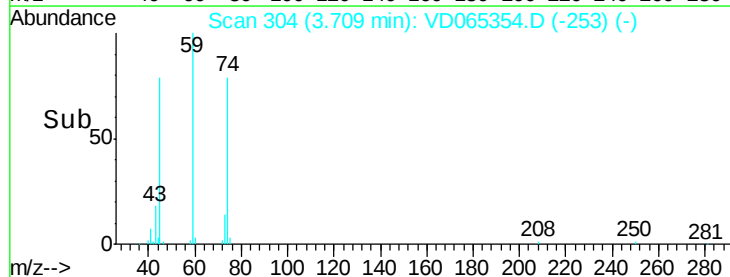
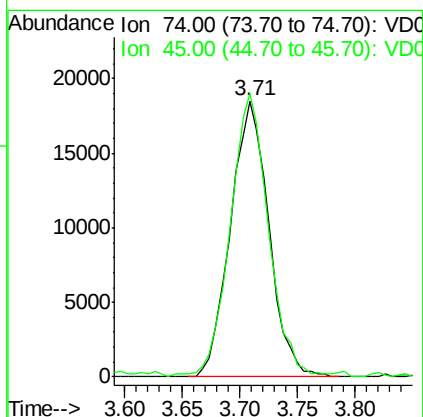
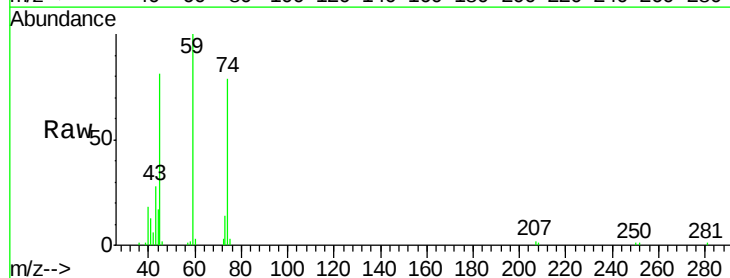
MMDadoda
 3/2/2020 10:35:32 AM



#8

Diethyl Ether
 Concen: 20.072 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.5	50.0	149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.038 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

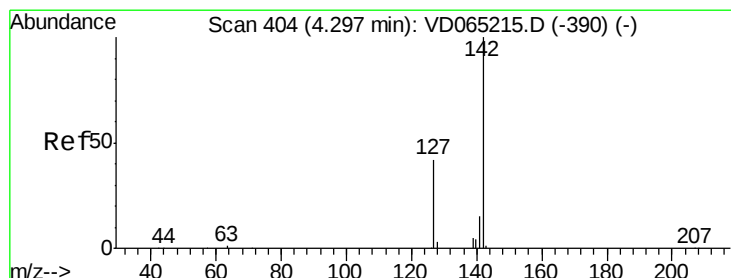
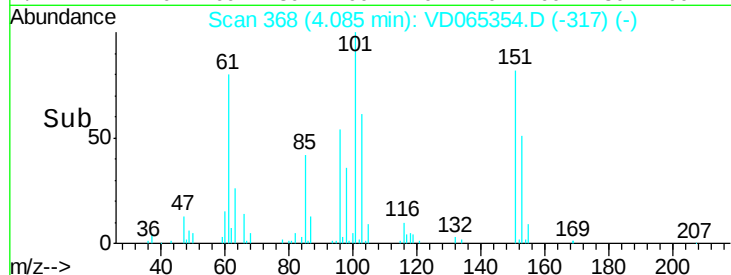
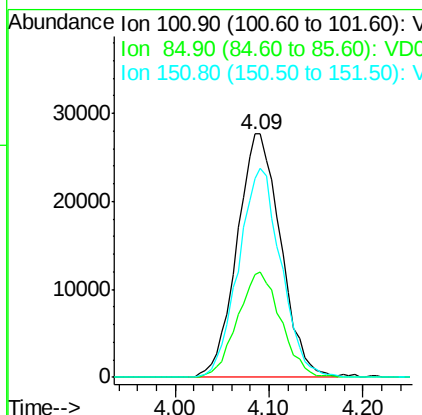
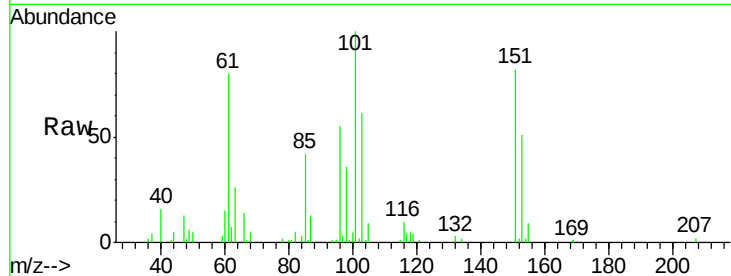
ClientSampleId :

VD0228SBS01

Tot Ion:	101	Resp:	89137
Ion Ratio	Lower	Upper	
101	100		
85	42.6	34.2	51.2
151	83.2	63.5	95.3

Manual Integrations
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3/2/2020 10:35:32 AM



#10

Methyl Iodide

Concen: 19.757 ug/l

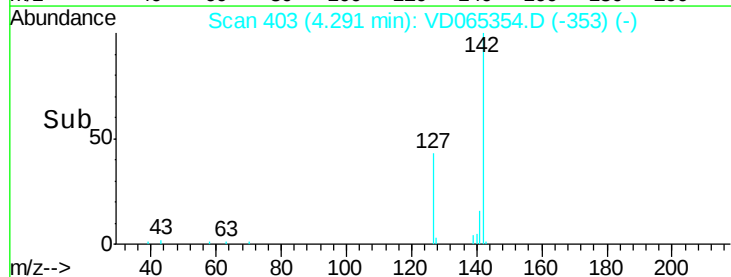
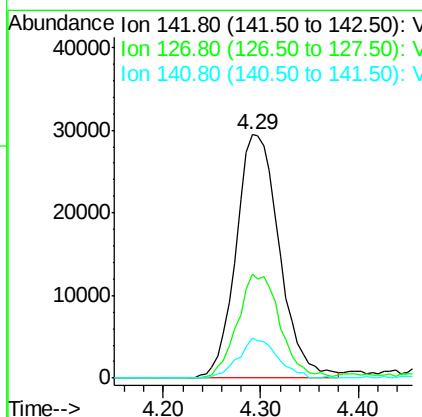
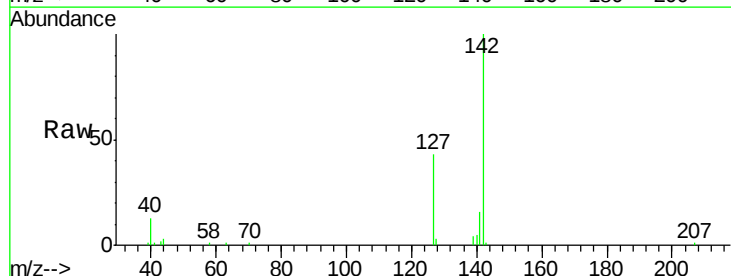
RT: 4.29 min Scan# 403

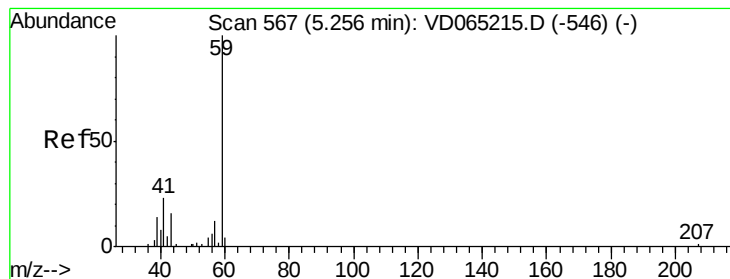
Delta R.T. -0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	142	Resp:	91251
Ion Ratio	Lower	Upper	
142	100		
127	41.7	33.8	50.8
141	14.6	11.7	17.5





#11

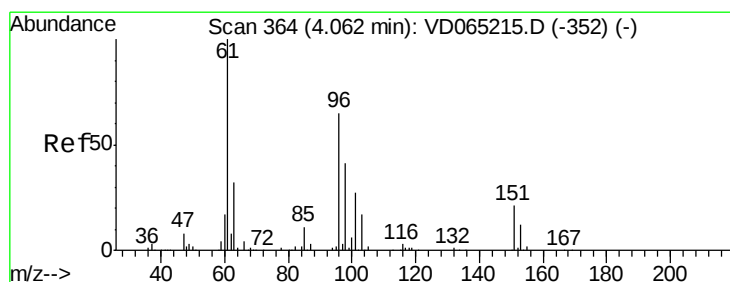
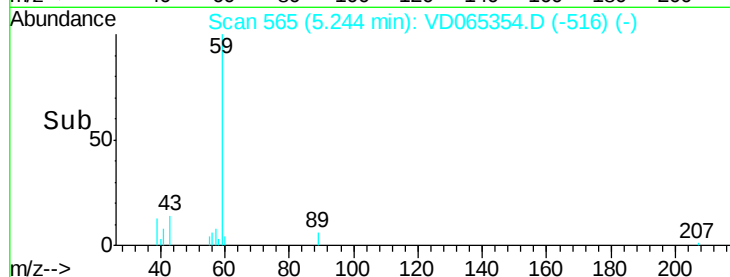
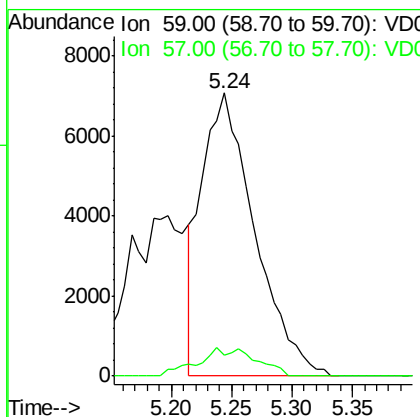
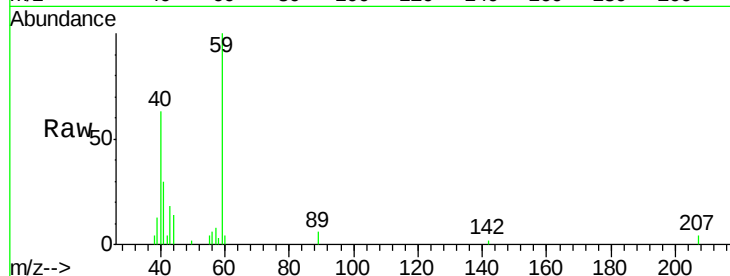
Tert butyl alcohol
Concen: 88.168 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion: 59 Resp: 21482
Ion Ratio Lower Upper
59 100
57 5.5 8.4 12.6#

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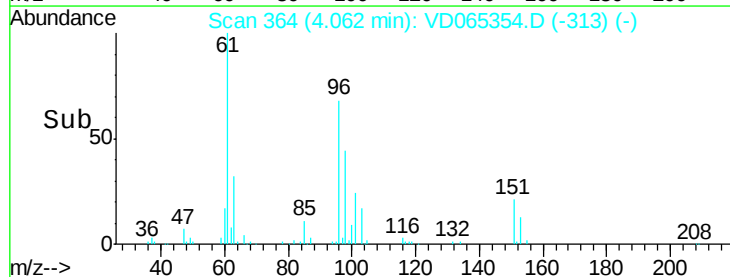
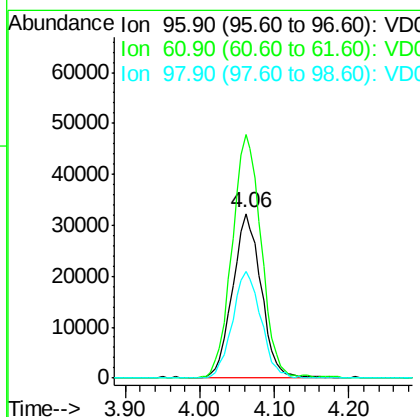
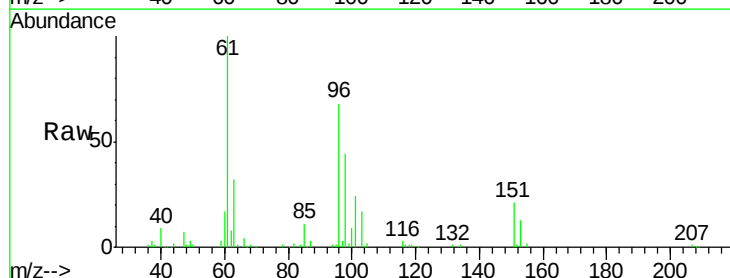
MMDadoda
3/2/2020 10:35:32 AM



#12

1,1-Dichloroethene
Concen: 20.521 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion: 96 Resp: 86233
Ion Ratio Lower Upper
96 100
61 147.9 123.3 184.9
98 64.5 51.0 76.4





#13

Acrolein

Concen: 96.018 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 56 Resp: 34034

Ion Ratio Lower Upper

56 100

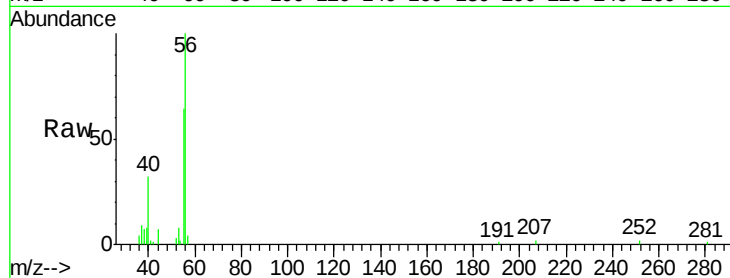
55 71.3 56.6 85.0

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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

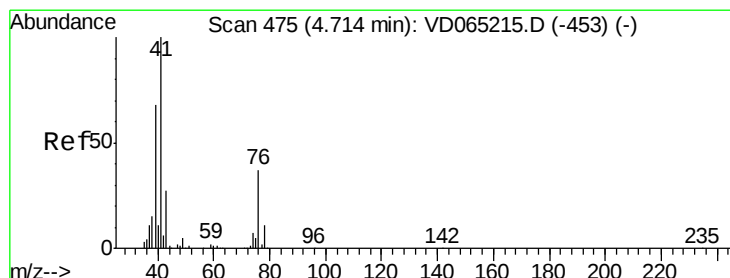
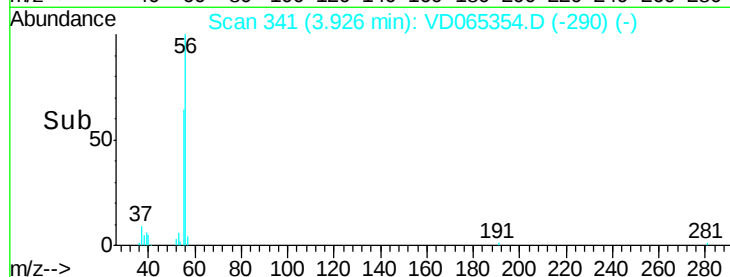
10000

5000

0

Time--> 3.80 3.90 4.00

3.93



#14

Allyl chloride

Concen: 20.156 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

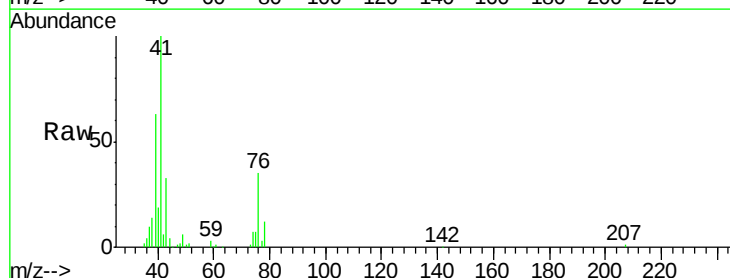
Tgt Ion: 41 Resp: 137542

Ion Ratio Lower Upper

41 100

39 63.6 53.8 80.6

76 36.0 28.7 43.1



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

60000

50000

40000

30000

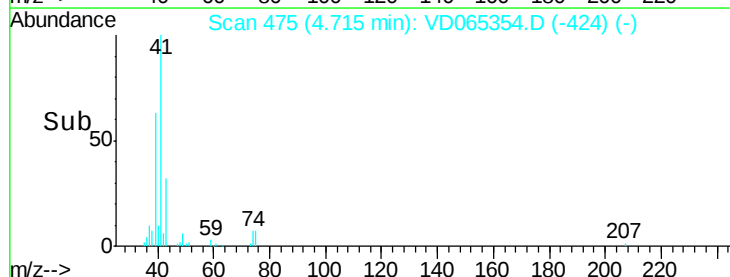
20000

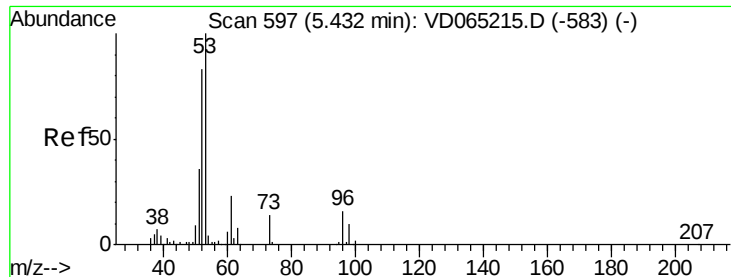
10000

0

Time--> 4.50 4.60 4.70 4.80

4.71





#15

Acrylonitrile

Concen: 102.321 ug/l

RT: 5.44 min Scan# 598

Delta R.T. 0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

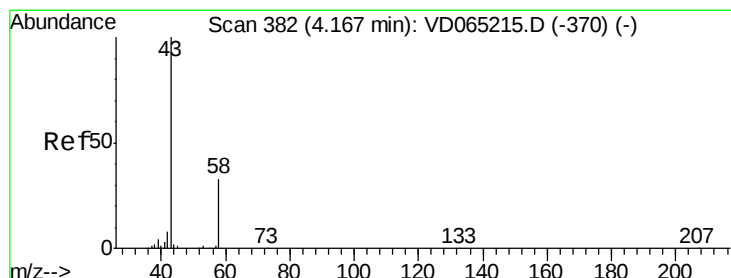
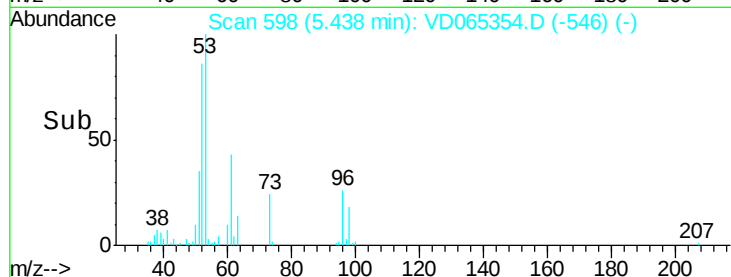
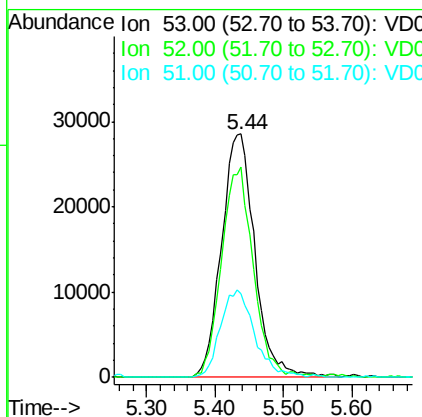
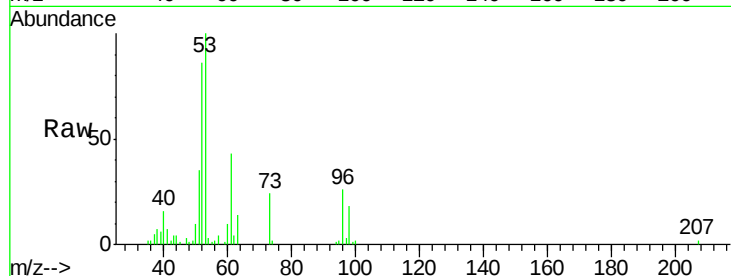
ClientSampleId :

VD0228SBS01

Tot Ion:	53	Resp:	96324
Ion Ratio	Lower	Upper	
53	100		
52	81.7	65.4	98.2
51	36.6	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 91.701 ug/l

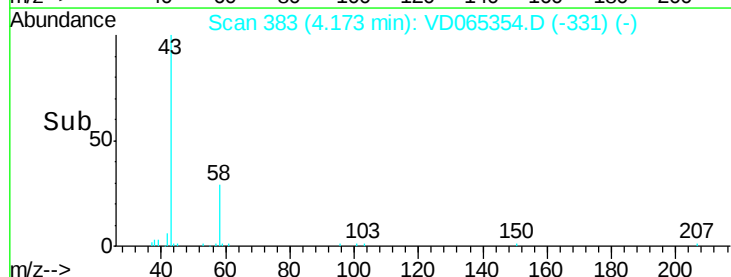
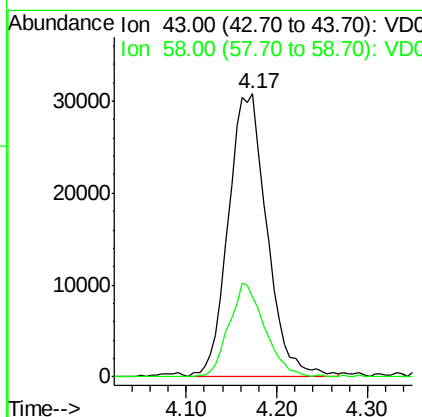
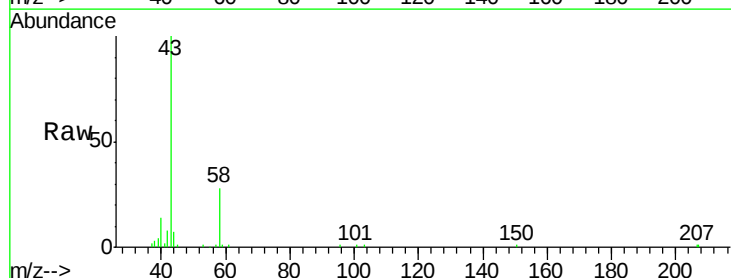
RT: 4.17 min Scan# 383

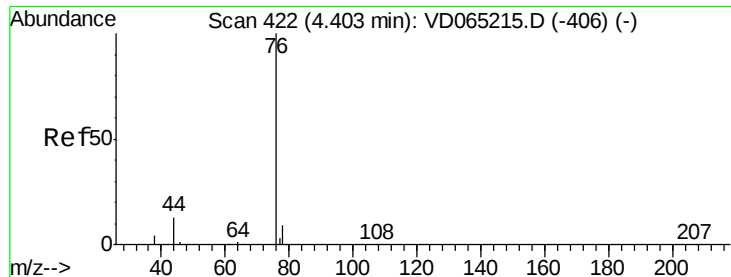
Delta R.T. 0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	43	Resp:	91399
Ion Ratio	Lower	Upper	
43	100		
58	28.3	26.2	39.2





#17

Carbon Disulfide

Concen: 19.072 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 76 Resp: 268691

Ion Ratio Lower Upper

76 100

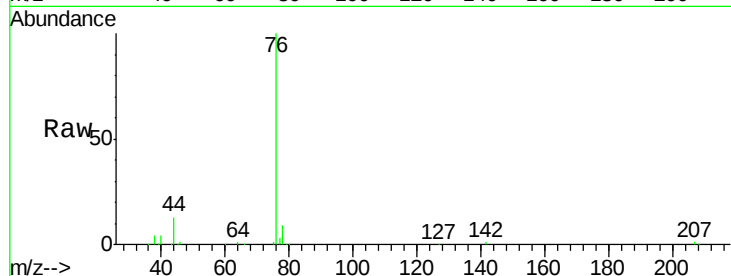
78 8.7 7.0 10.6

Manual Integrations

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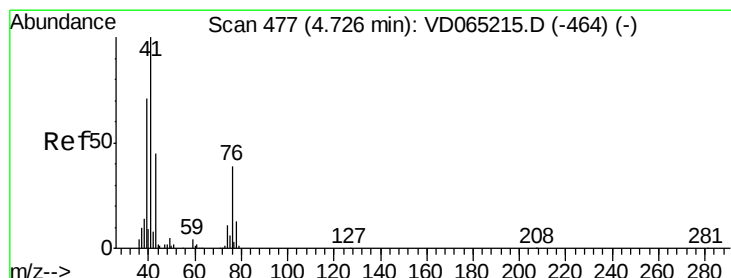
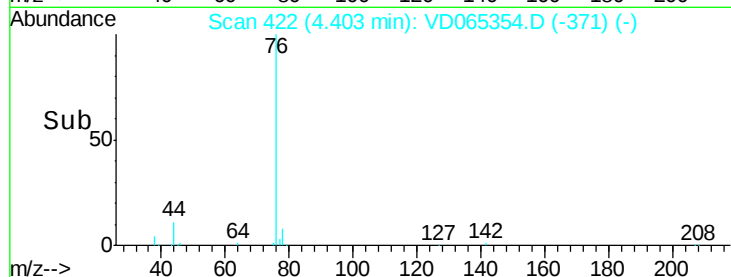
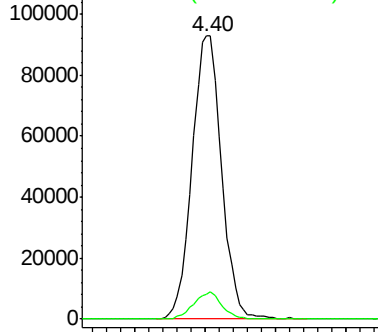
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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 22.289 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD065354.D

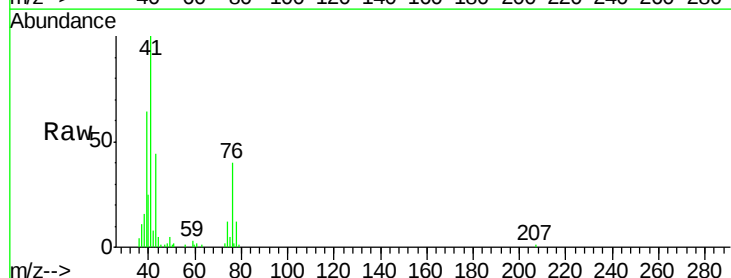
Acq: 28 Feb 2020 12:09

Tgt Ion: 43 Resp: 49965

Ion Ratio Lower Upper

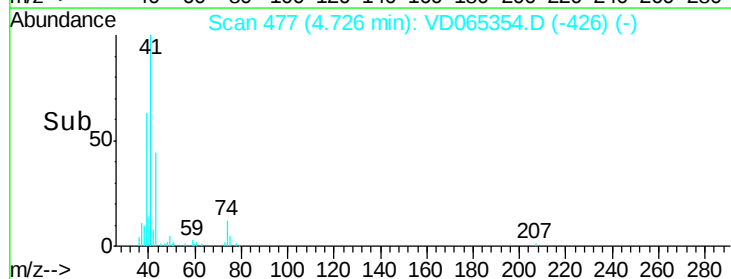
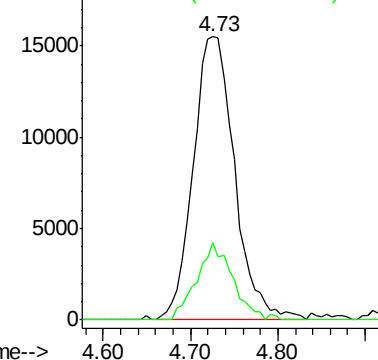
43 100

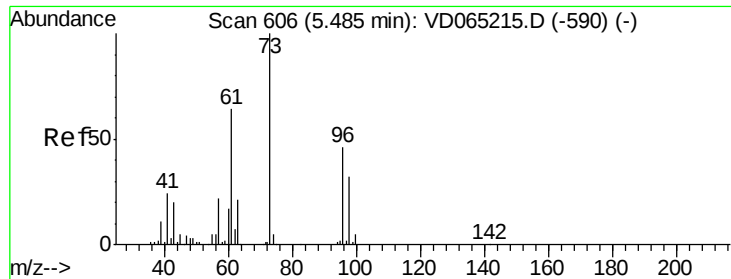
74 23.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





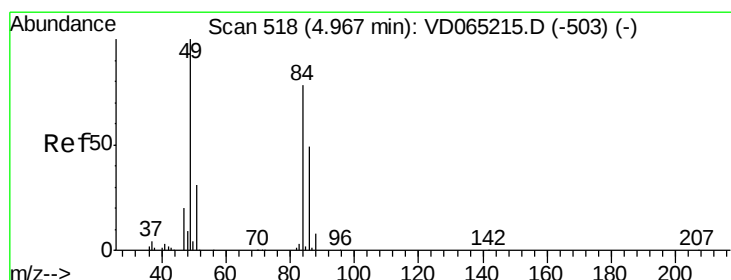
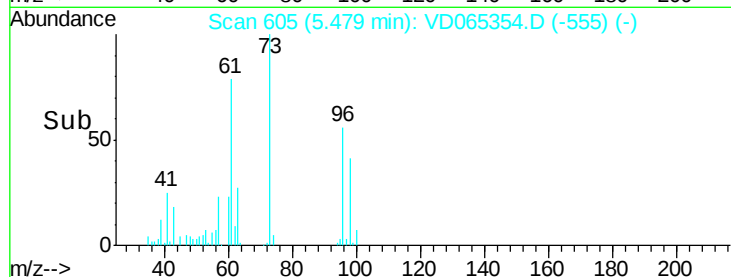
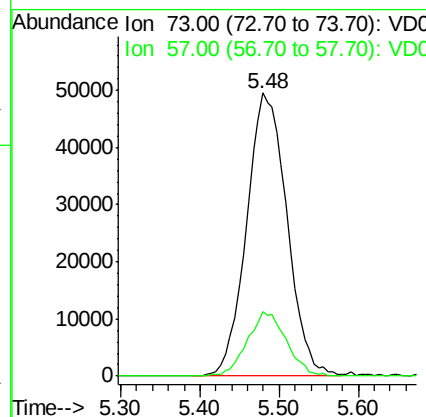
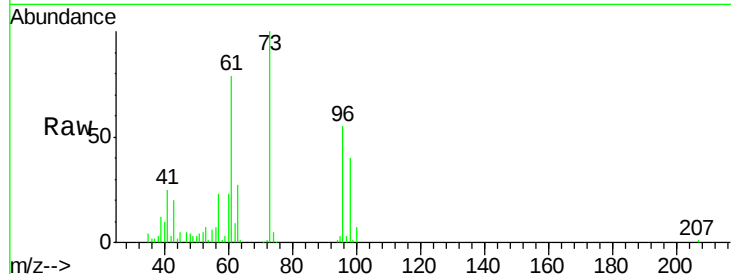
#19
Methvl tert-butvl Ether
Concen: 20.058 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion: 73 Resp: 175765
Ion Ratio Lower Upper
73 100
57 22.6 17.3 25.9

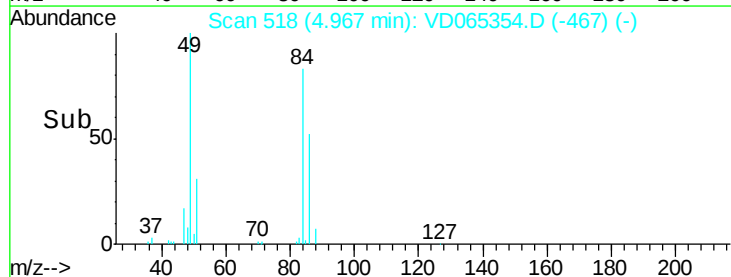
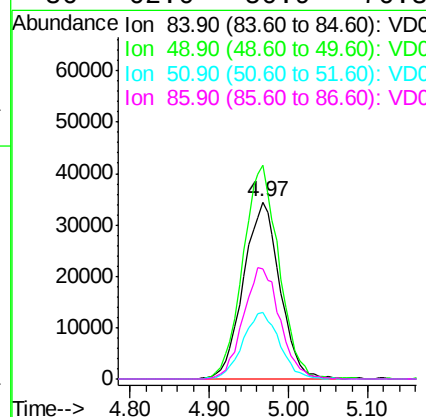
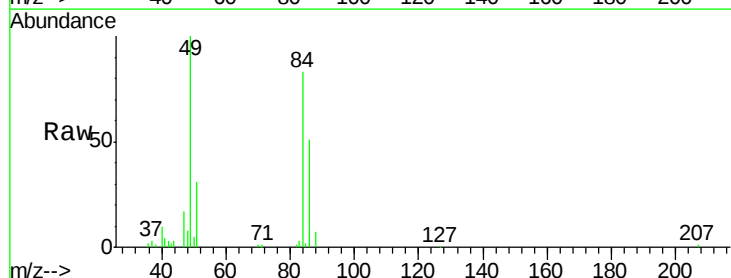
Manual Integrations
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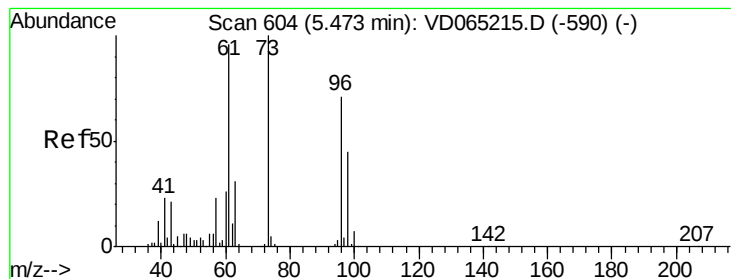
MMDadoda
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#20
Methylene Chloride
Concen: 22.237 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion: 84 Resp: 110023
Ion Ratio Lower Upper
84 100
49 120.8 103.1 154.7
51 37.4 31.7 47.5
86 62.0 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 20.342 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

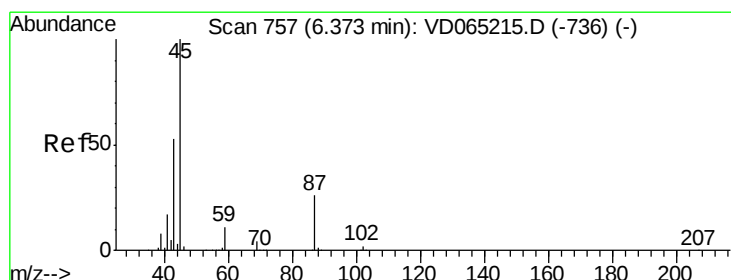
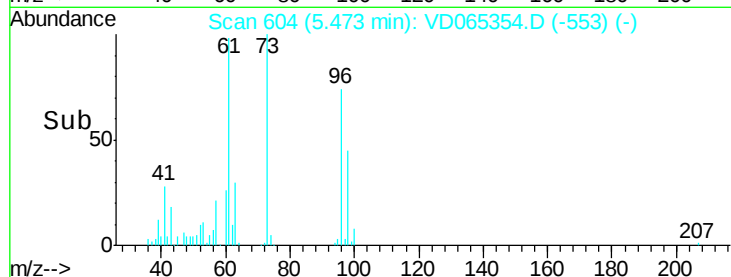
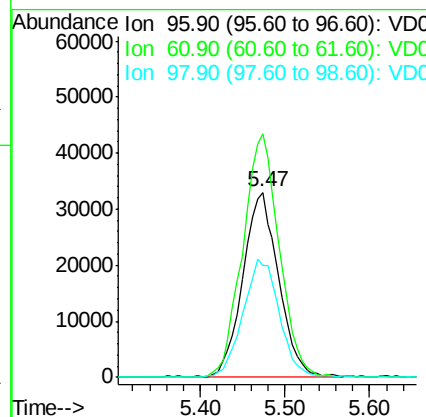
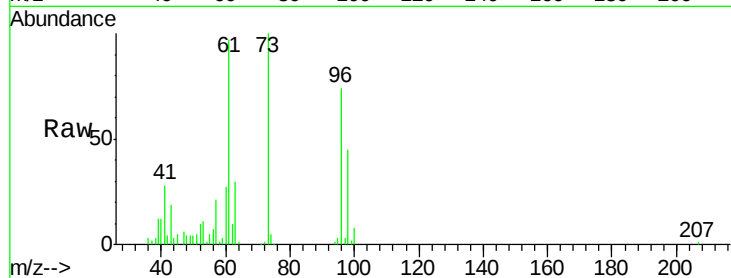
ClientSampleId :

VD0228SBS01

Tot Ion:	96	Resp:	97178
Ion	Ratio	Lower	Upper
96	100		
61	131.6	108.3	162.5
98	60.5	50.7	76.1

Manual Integrations
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#22

Diisopropyl ether

Concen: 21.097 ug/l

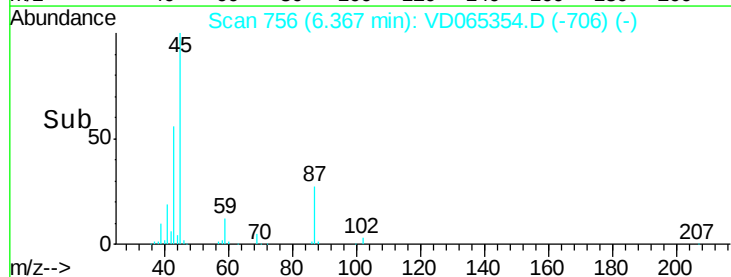
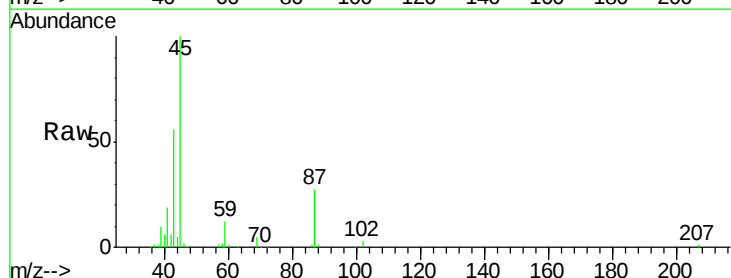
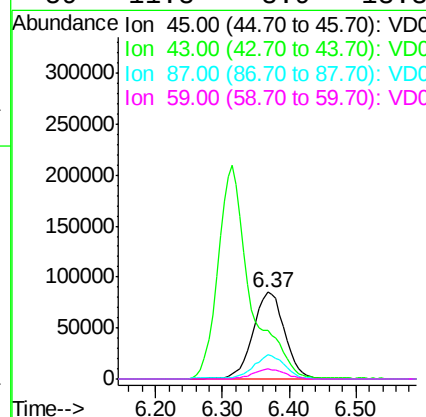
RT: 6.37 min Scan# 756

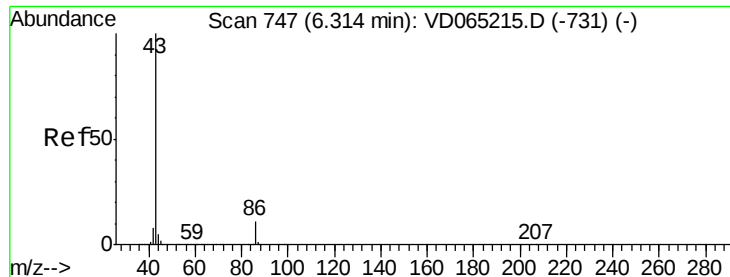
Delta R.T. -0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	45	Resp:	277528
Ion	Ratio	Lower	Upper
45	100		
43	54.5	42.6	64.0
87	27.5	21.2	31.8
59	11.8	8.9	13.3





#23

Vinyl Acetate

Concen: 97.847 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 43 Resp: 709621

Ion Ratio Lower Upper

43 100

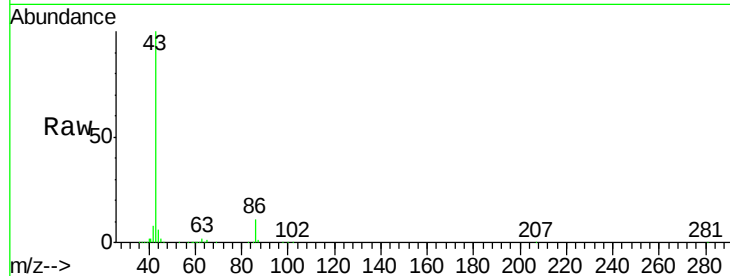
86 11.0 8.6 12.8

Manual Integrations

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MMDadoda

3/2/2020 10:35:32 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

250000

200000

150000

100000

50000

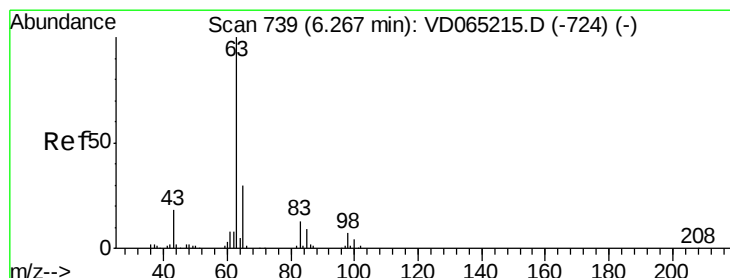
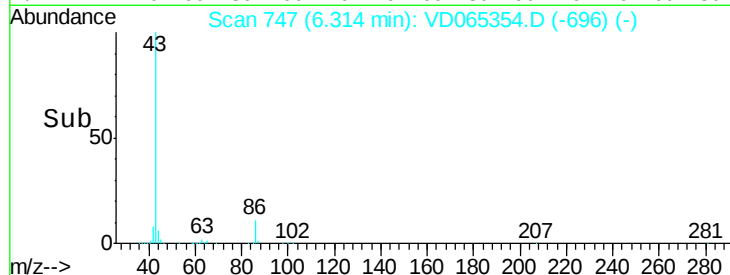
0

6.20

6.31

6.40

Time-->



#24

1,1-Dichloroethane

Concen: 20.728 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

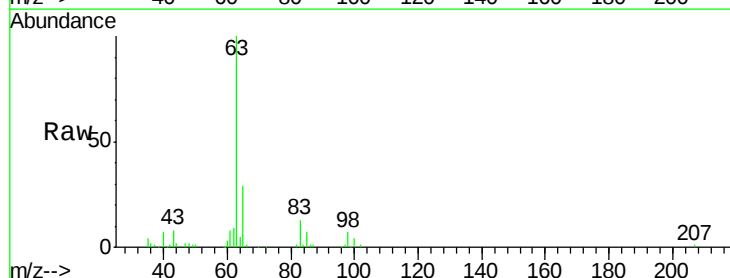
Tgt Ion: 63 Resp: 169135

Ion Ratio Lower Upper

63 100

98 7.4 3.4 10.1

100 4.1 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

60000

40000

20000

0

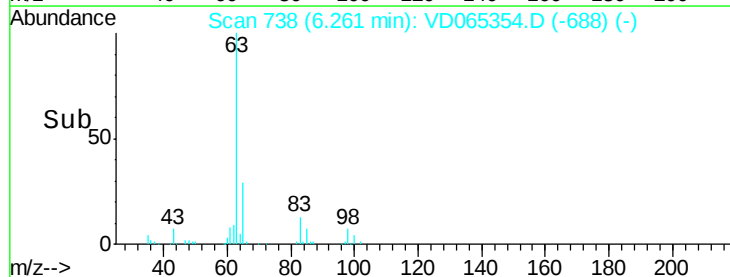
6.10

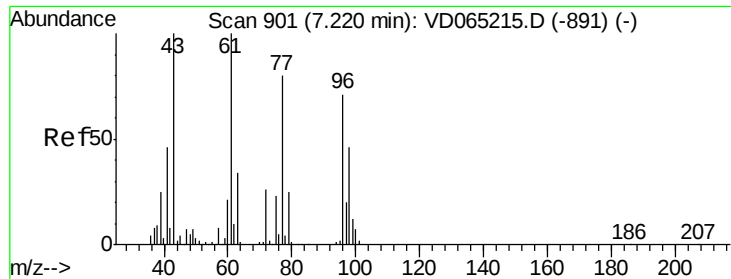
6.26

6.30

6.40

Time-->





#25

2-Butanone

Concen: 92.028 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 43 Resp: 116052

Ion Ratio Lower Upper

43 100

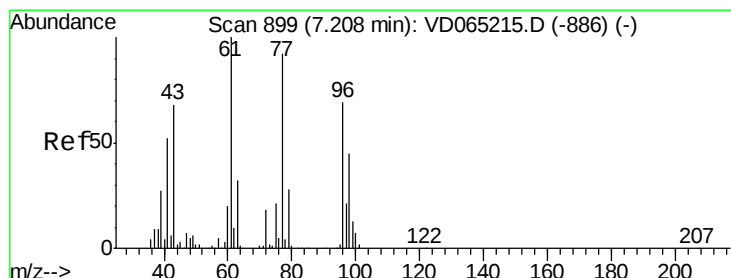
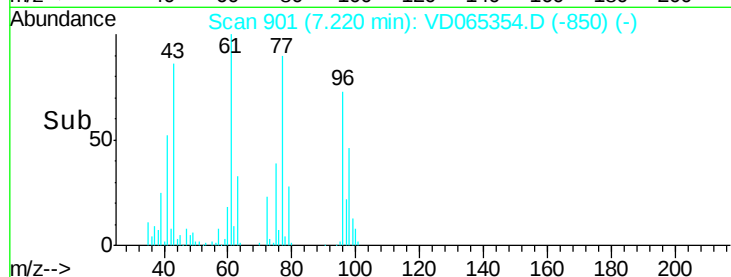
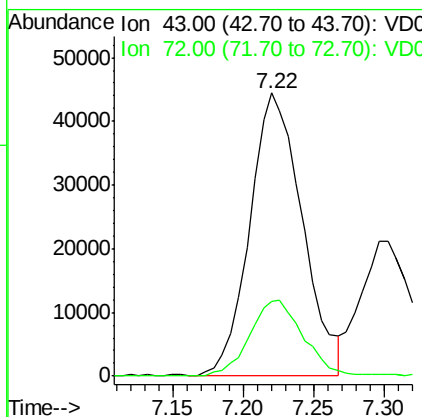
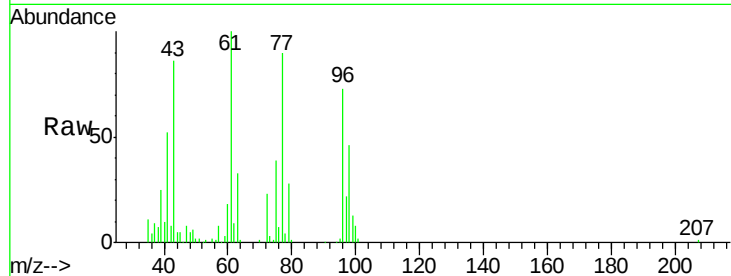
72 26.3 20.9 31.3

Manual Integrations

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MMDadoda

3/2/2020 10:35:32 AM



#26

2,2-Dichloropropane

Concen: 20.582 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD065354.D

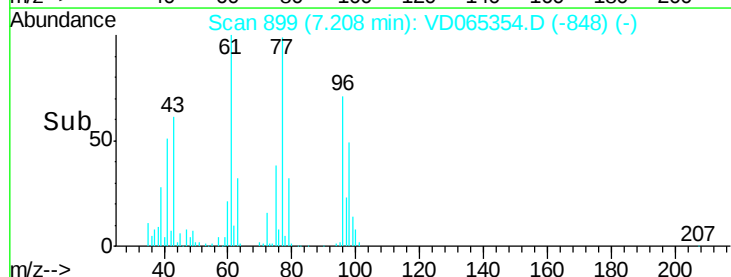
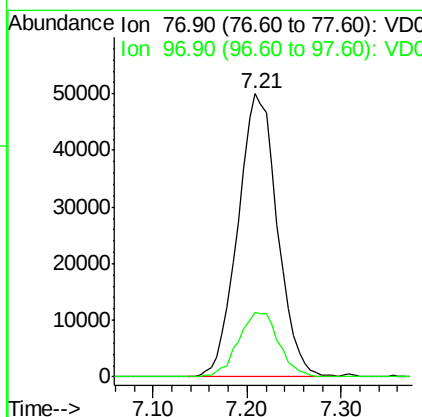
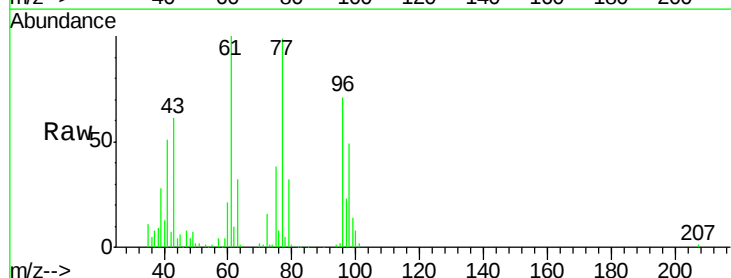
Acq: 28 Feb 2020 12:09

Tgt Ion: 77 Resp: 145715

Ion Ratio Lower Upper

77 100

97 23.3 11.7 35.1





#27

cis-1,2-Dichloroethene

Concen: 20.659 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

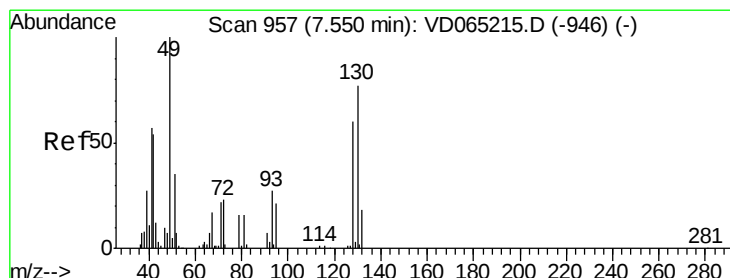
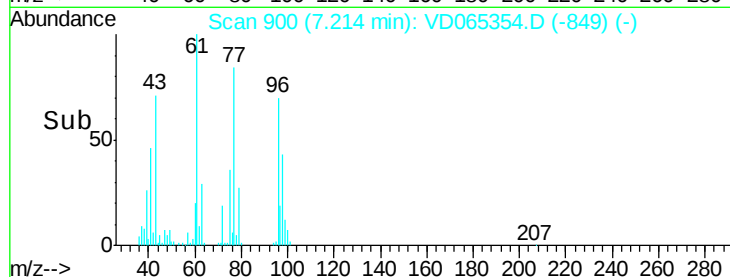
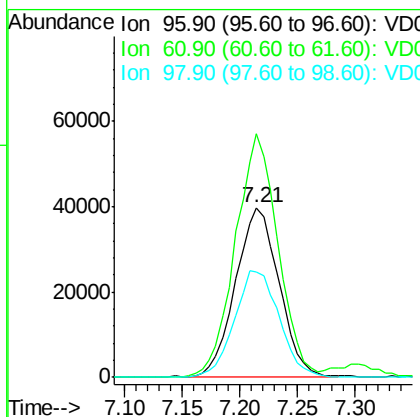
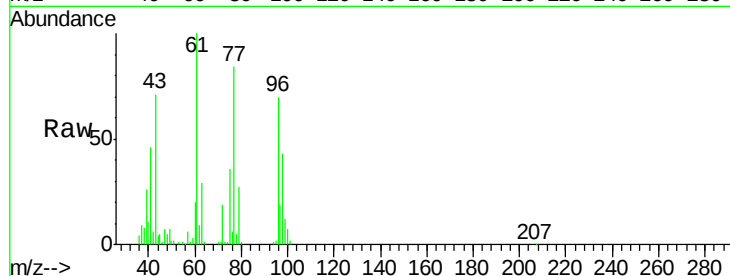
ClientSampleId :

VD0228SBS01

Tot Ion:	96	Resp:	104537
Ion Ratio	Lower	Upper	
96	100		
61	140.0	0.0	286.0
98	64.5	0.0	127.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.702 ug/l

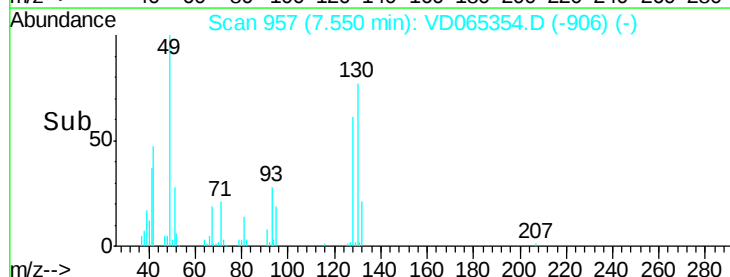
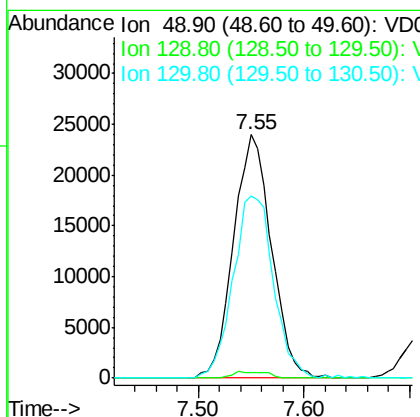
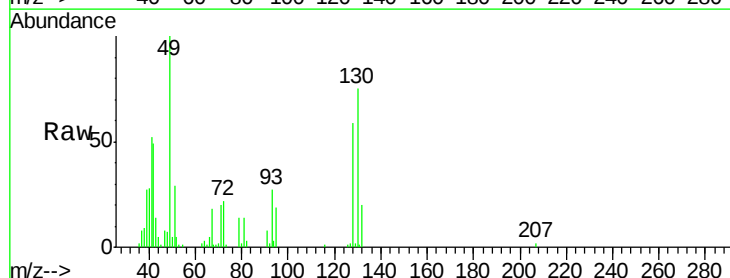
RT: 7.55 min Scan# 957

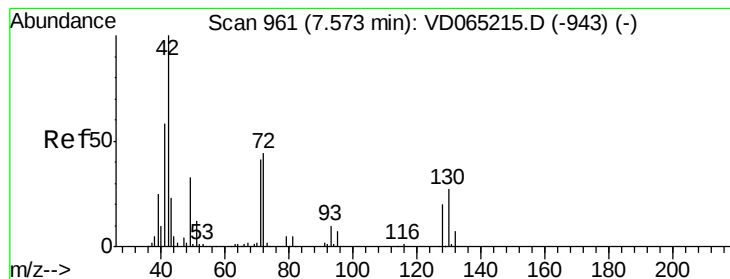
Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	49	Resp:	59643
Ion Ratio	Lower	Upper	
49	100		
129	1.3	0.0	4.6
130	79.5	64.7	97.1





#29

Tetrahydrofuran

Concen: 101.137 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

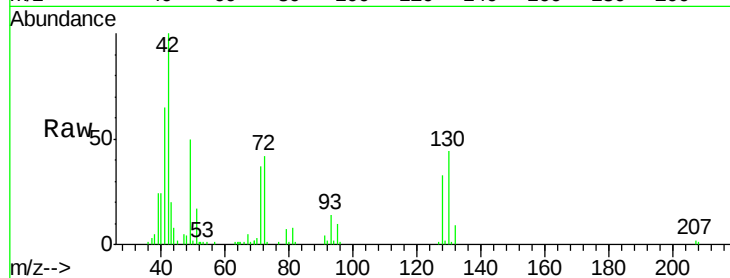
ClientSampleId :

VD0228SBS01

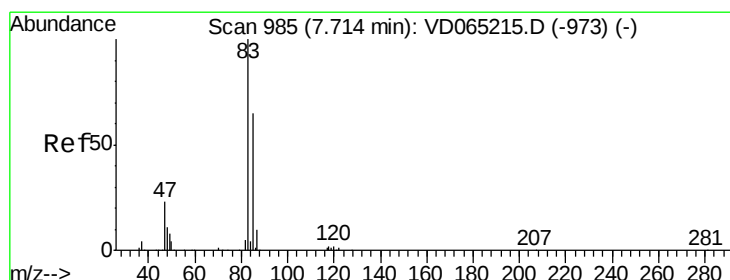
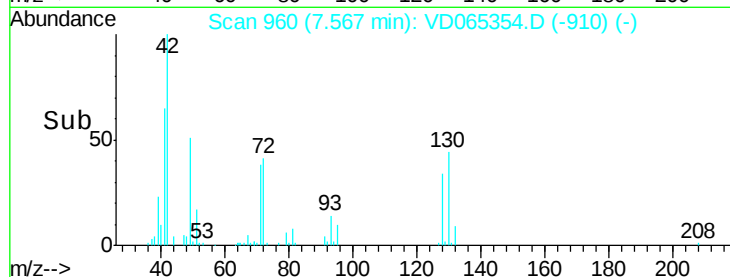
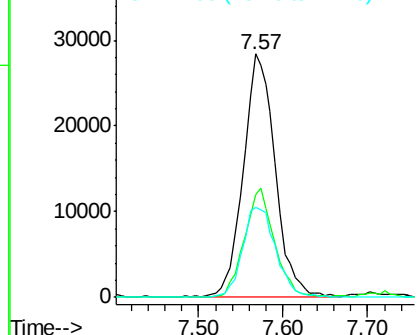
Tot Ion:	42	Resp:	74728
Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	38.2	31.4	47.2

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



#30

Chloroform

Concen: 20.767 ug/l

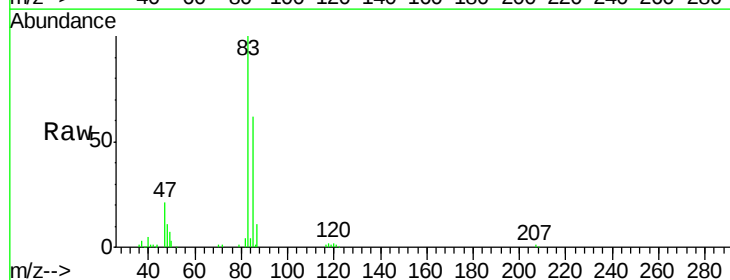
RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

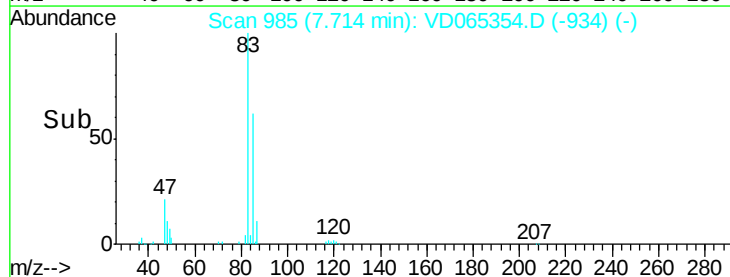
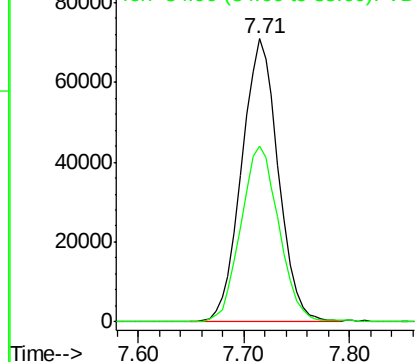
Lab File: VD065354.D

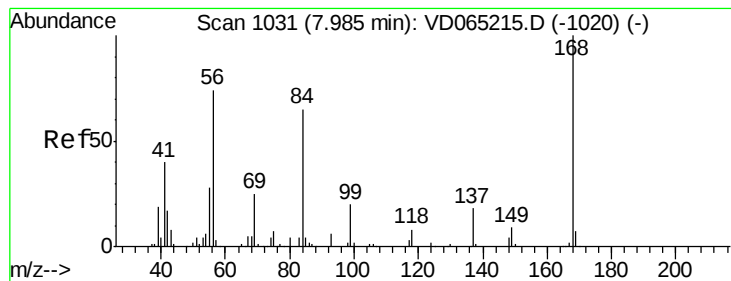
Acq: 28 Feb 2020 12:09

Tgt Ion:	83	Resp:	170715
Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.3	78.5



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





#31

Cyclohexane

Concen: 19.035 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

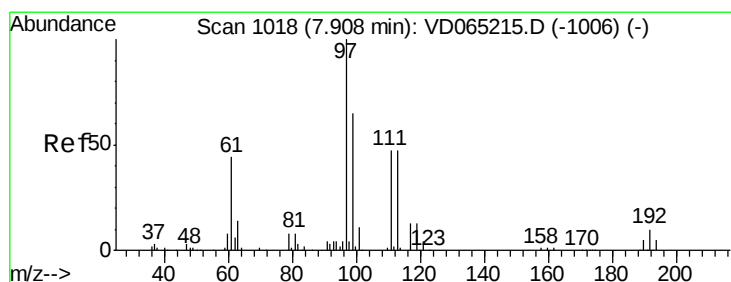
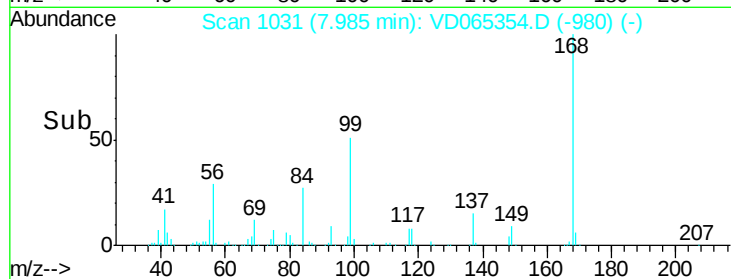
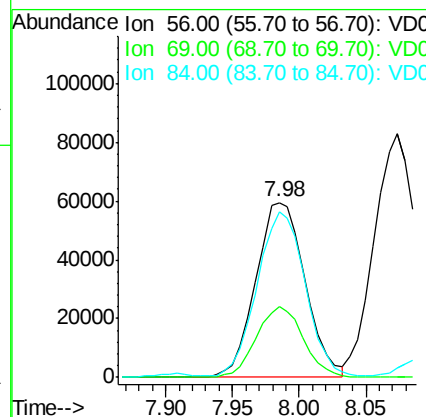
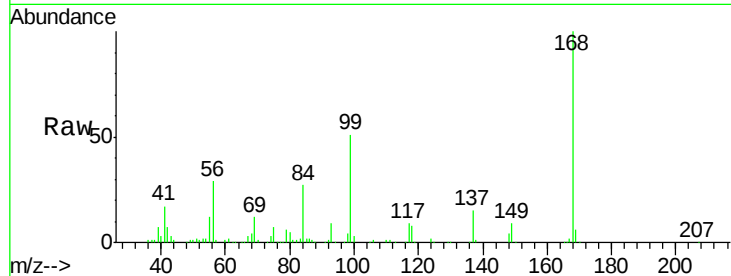
ClientSampleId :

VD0228SBS01

Tot Ion:	56	Resp:	152608
Ion Ratio	Lower	Upper	
56	100		
69	40.7	27.4	41.0
84	93.5	71.1	106.7

Manual Integrations
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3/2/2020 10:35:32 AM



#32

1,1,1-Trichloroethane

Concen: 20.832 ug/l

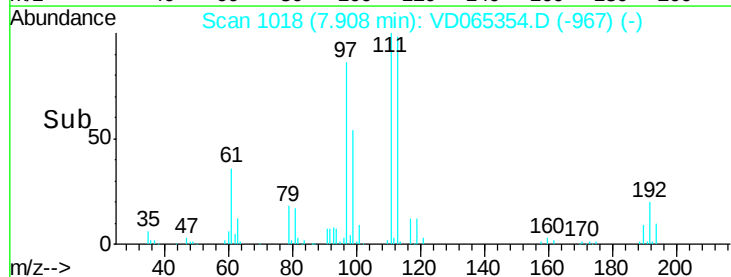
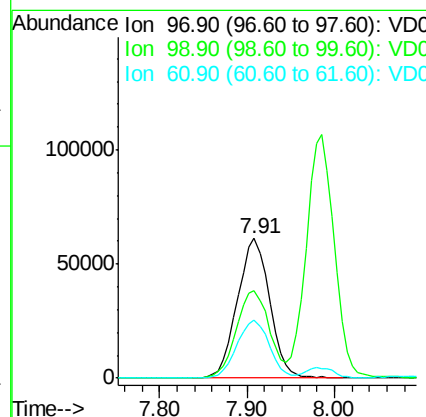
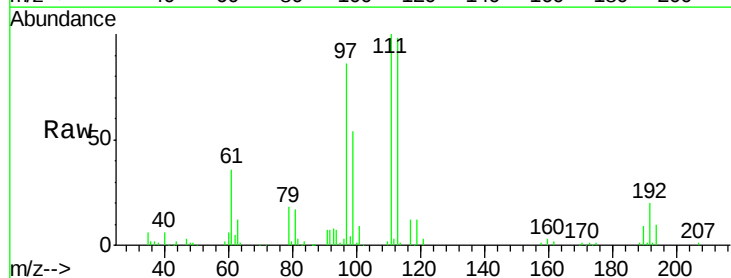
RT: 7.91 min Scan# 1018

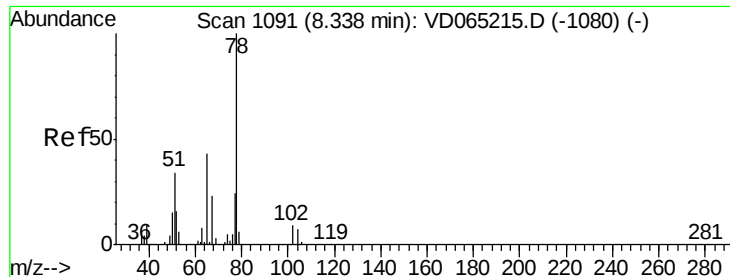
Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	97	Resp:	153219
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.4	77.2
61	41.6	34.8	52.2





#33

1,2-Dichloroethane-d4

Concen: 50.107 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 65 Resp: 204307

Ion Ratio Lower Upper

65 100

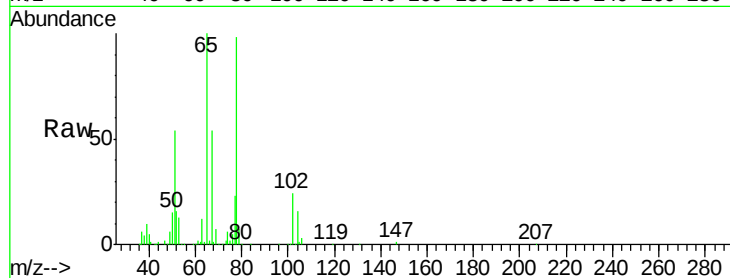
67 54.2 0.0 106.8

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

100000

80000

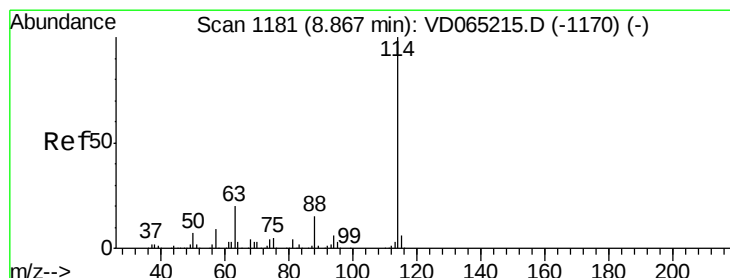
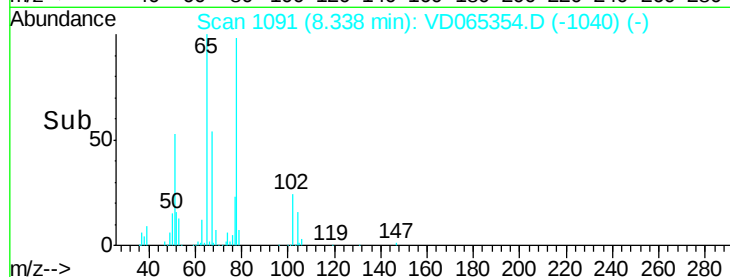
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

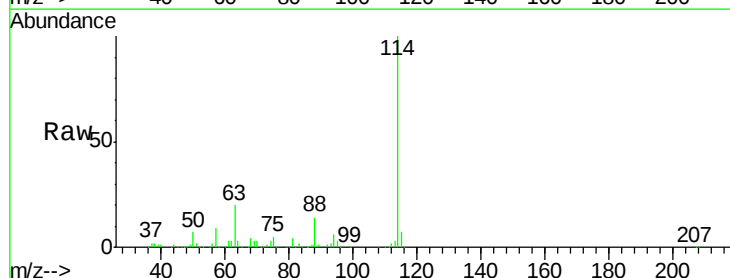
Tgt Ion: 114 Resp: 680763

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.4

88 14.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

400000

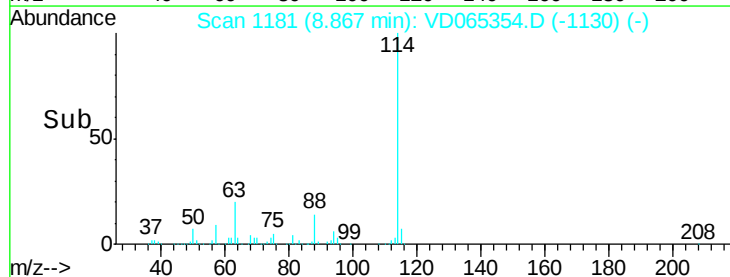
300000

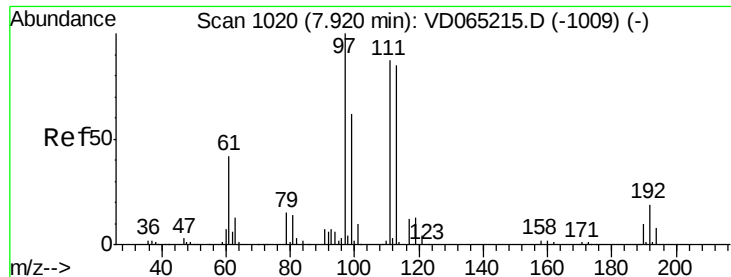
200000

100000

0

Time-->





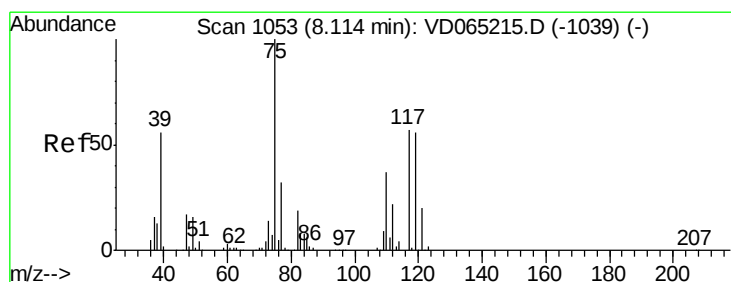
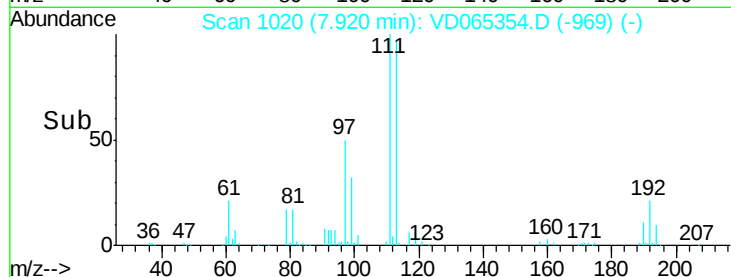
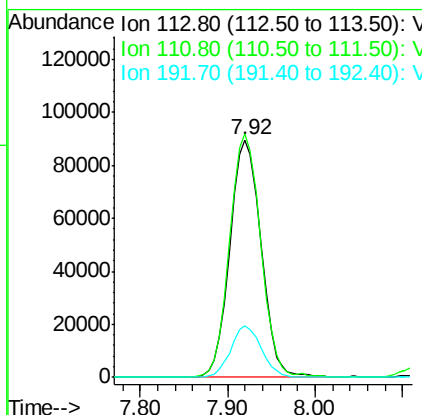
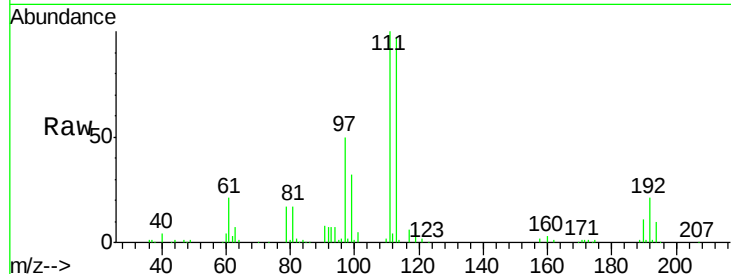
#35
Dibromofluoromethane
Concen: 52.320 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	217173		
111	102.0	82.9	124.3	
192	21.4	17.3	25.9	

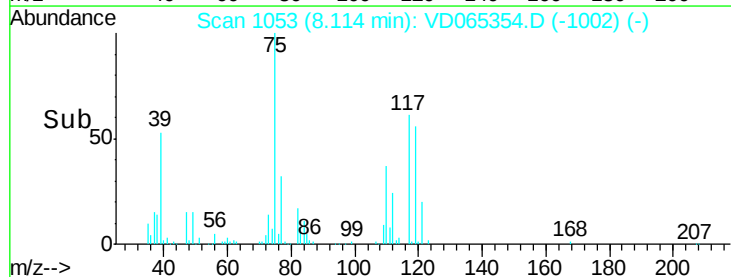
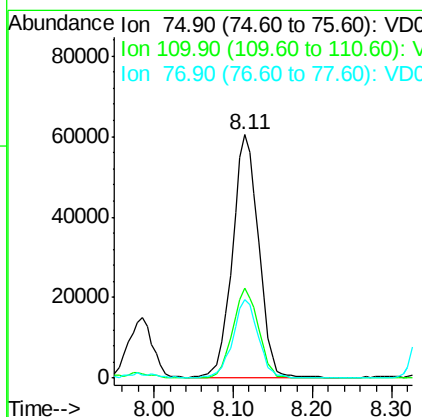
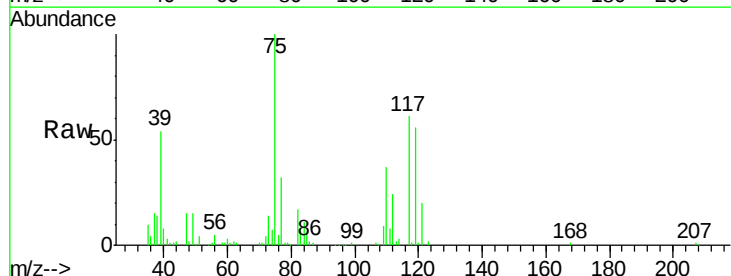
Manual Integrations
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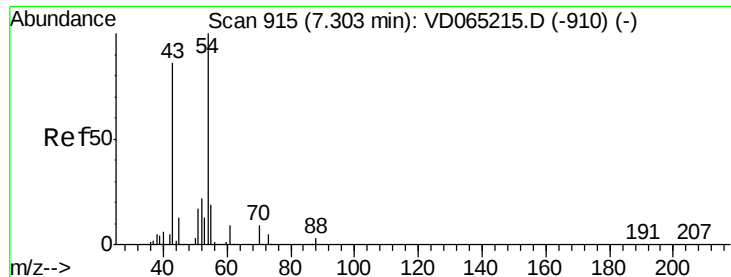
MMDadoda
3/2/2020 10:35:32 AM



#36
1,1-Dichloropropene
Concen: 20.968 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138888		
110	36.0	17.9	53.7	
77	31.3	25.1	37.7	





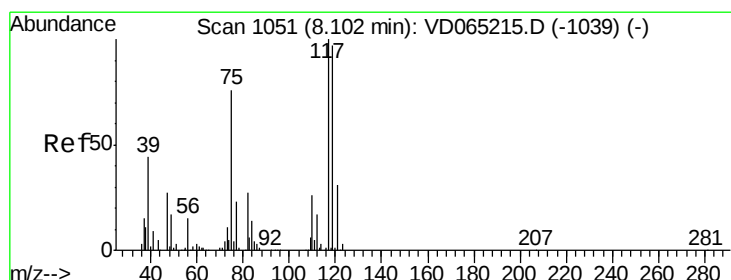
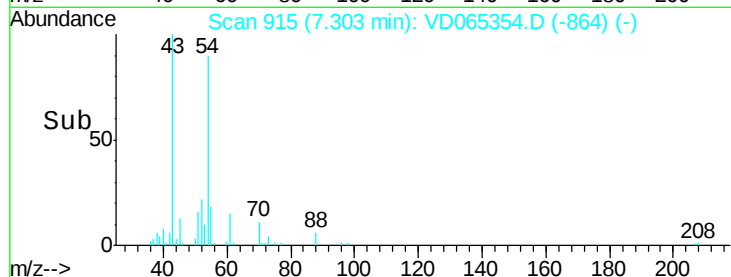
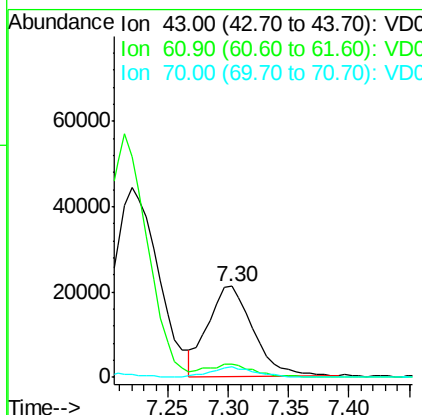
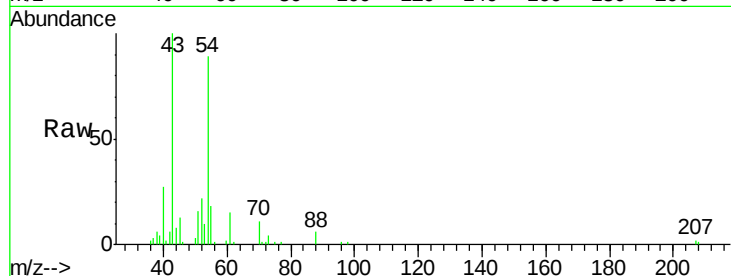
#37
Ethyl Acetate
Concen: 19.422 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.2	16.8
70	11.4	8.2	12.2

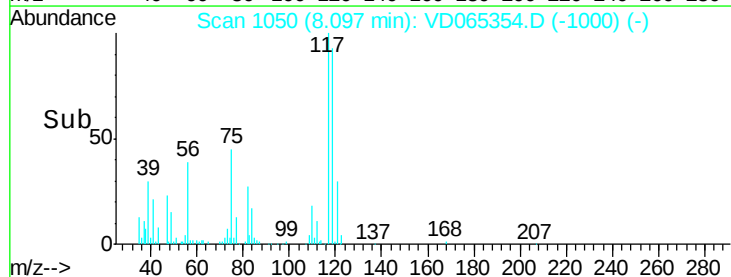
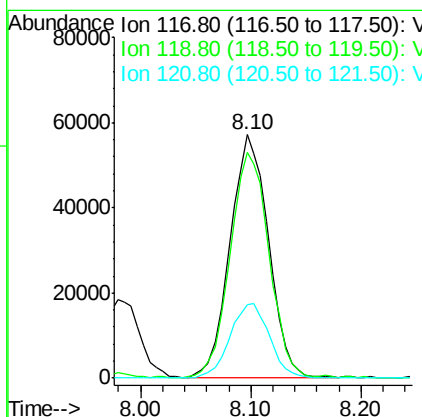
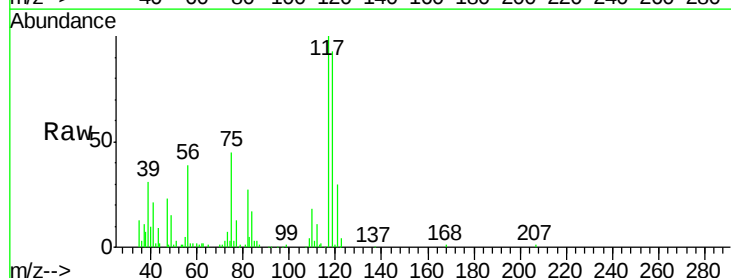
Manual Integrations
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3/2/2020 10:35:32 AM



#38
Carbon Tetrachloride
Concen: 20.631 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.5	77.6	116.4
121	30.0	24.8	37.2





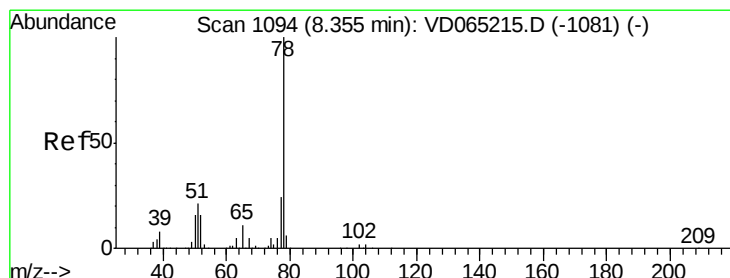
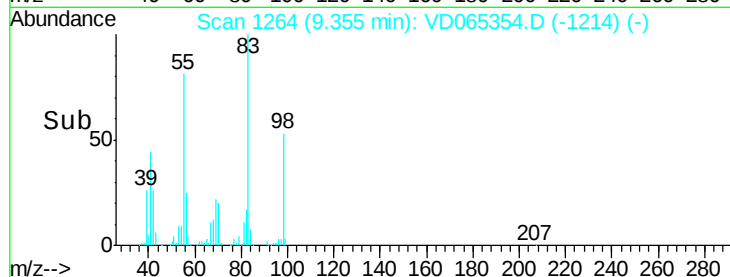
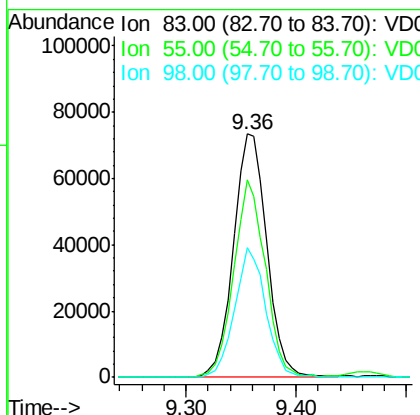
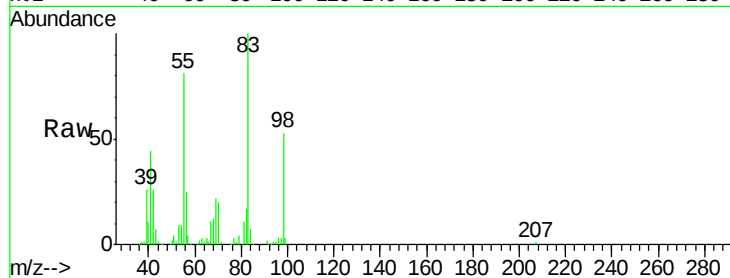
#39
Methvlcvclohexane
Concen: 20.013 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.9	61.8	92.6
98	53.2	39.4	59.0

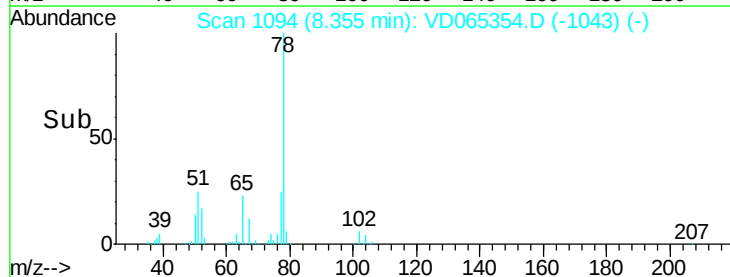
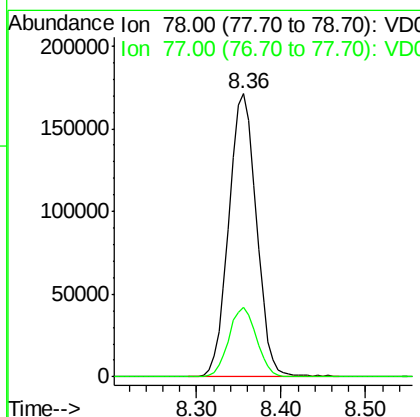
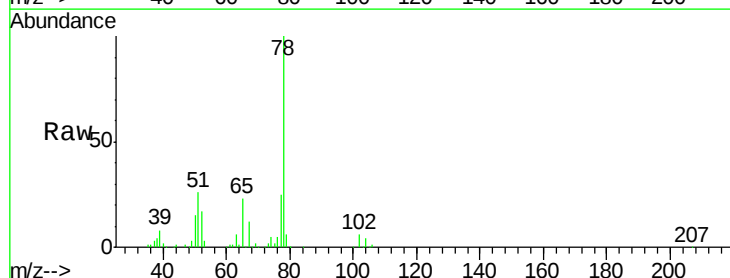
Manual Integrations
APPROVED

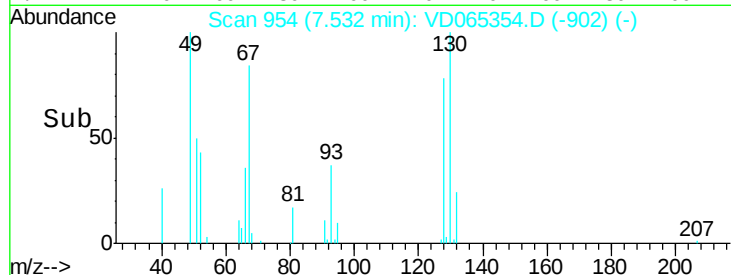
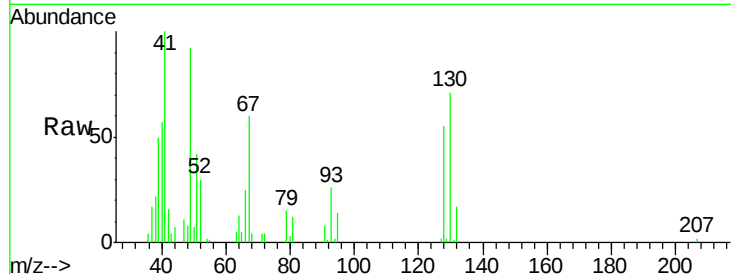
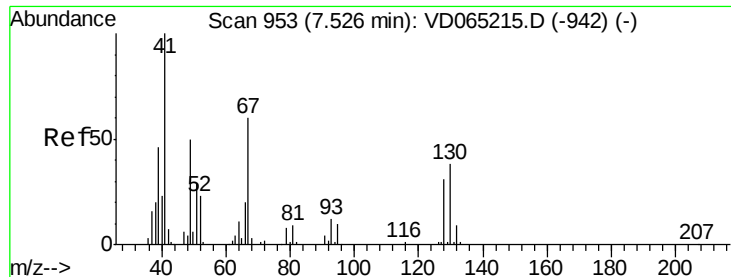
MMDadoda
3/2/2020 10:35:32 AM



#40
Benzene
Concen: 20.725 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.6





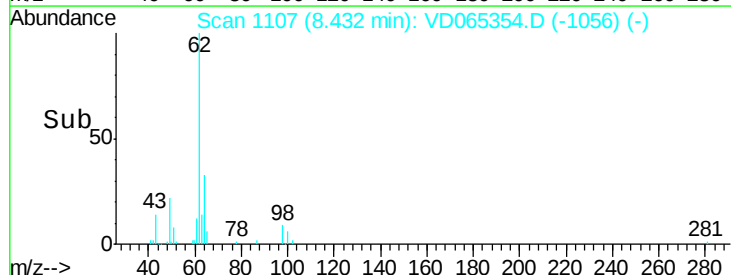
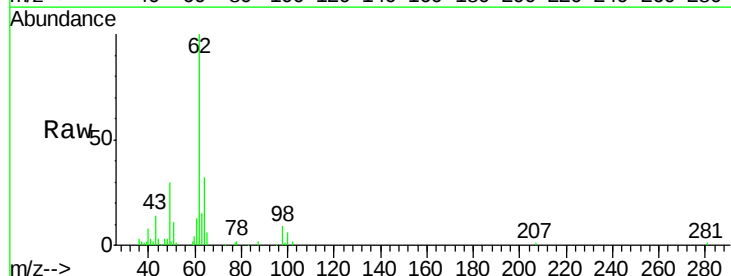
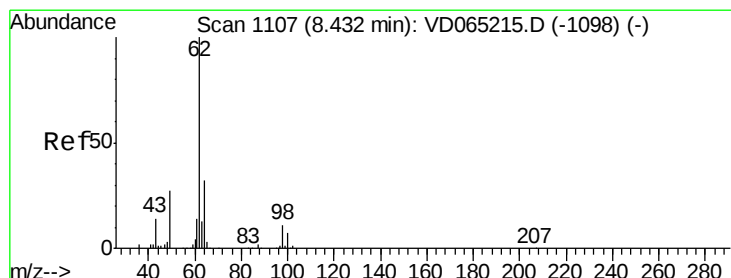
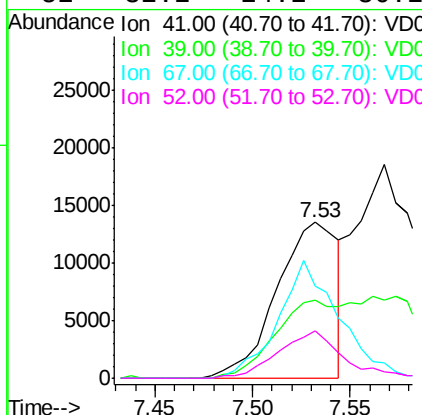
#41
Methacrylonitrile
Concen: 18.334 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tot Ion	41	Resp	29314
Ion	Ratio	Lower	Upper
41	100		
39	51.3	48.1	72.1
67	75.8	58.9	88.3
52	32.2	24.2	36.2

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

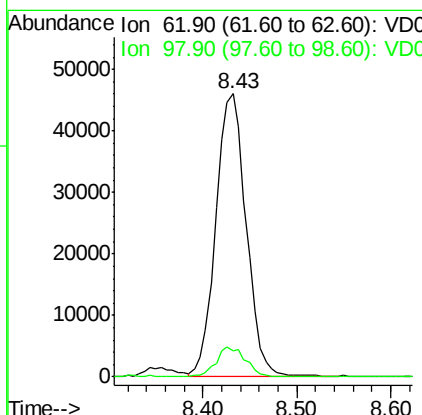
Manual Integrations
APPROVED

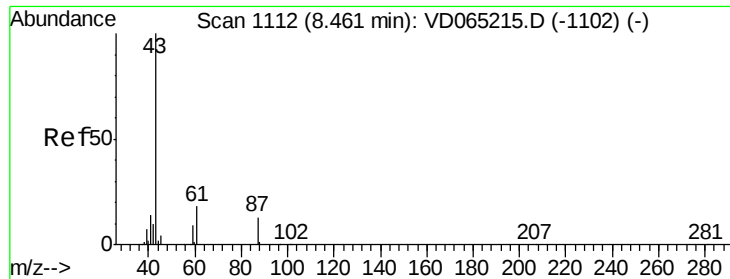
MMDadoda
3/2/2020 10:35:32 AM



#42
1,2-Dichloroethane
Concen: 20.263 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	62	Resp	104151
Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6





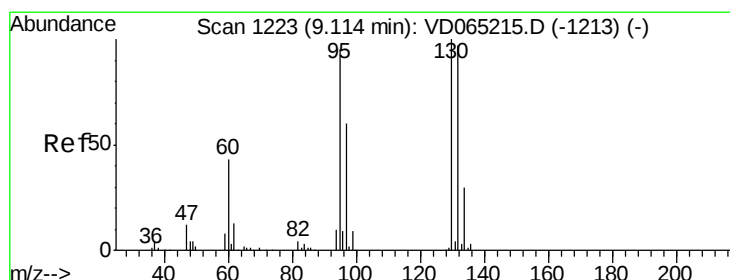
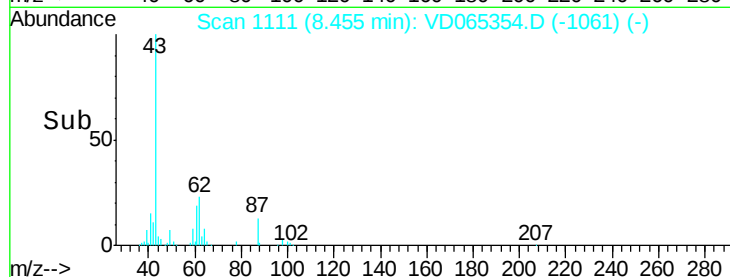
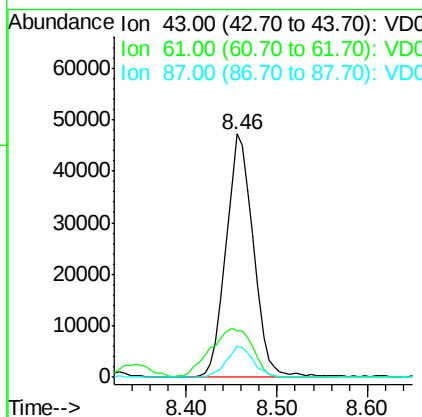
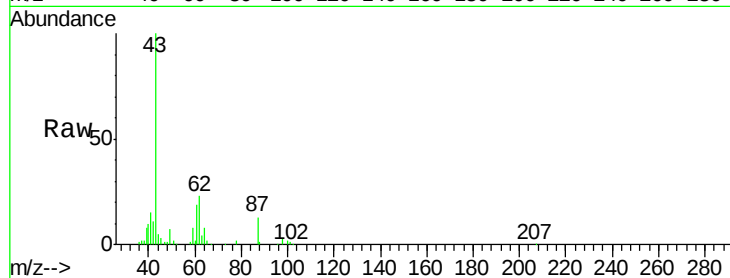
#43
Isopropyl Acetate
Concen: 19.768 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion:	43	Resp:	99540
Ion	Ratio	Lower	Upper
43	100		
61	30.9	24.6	36.8
87	12.4	10.6	16.0

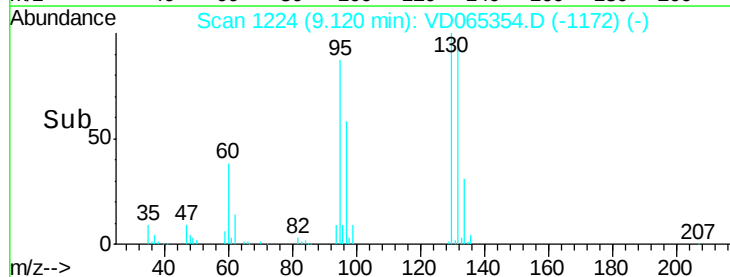
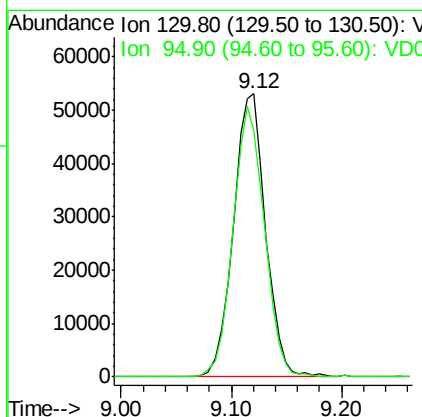
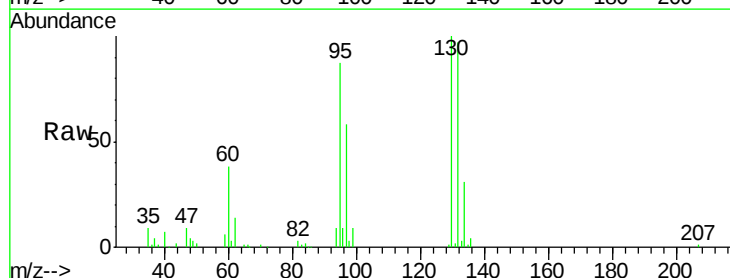
Manual Integrations
APPROVED

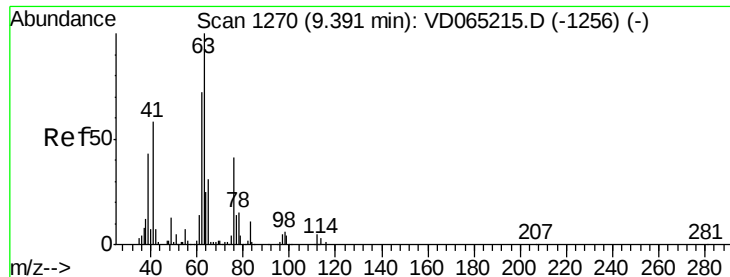
MMDadoda
3/2/2020 10:35:32 AM



#44
Trichloroethene
Concen: 20.903 ug/l
RT: 9.12 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion:	130	Resp:	108333
Ion	Ratio	Lower	Upper
130	100		
95	86.9	0.0	190.6





#45

1,2-Dichloropropane

Concen: 20.851 ug/l

RT: 9.40 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 63 Resp: 96937

Ion Ratio Lower Upper

63 100

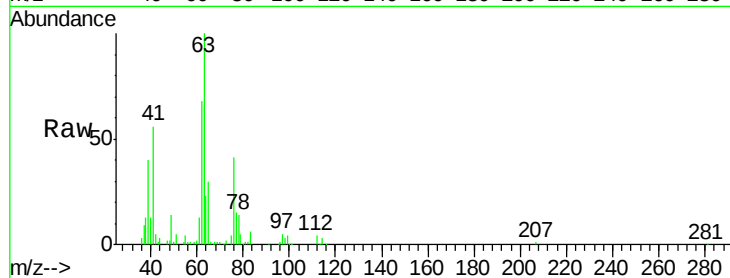
65 29.7 24.9 37.3

Manual Integrations

APPROVED

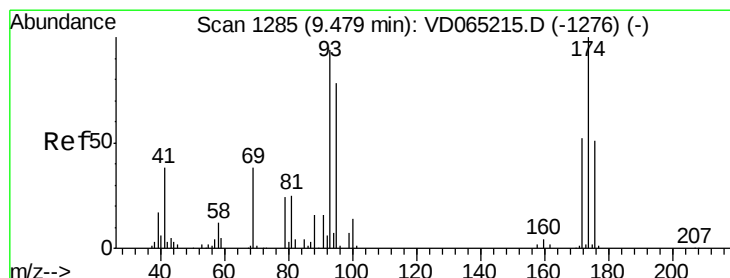
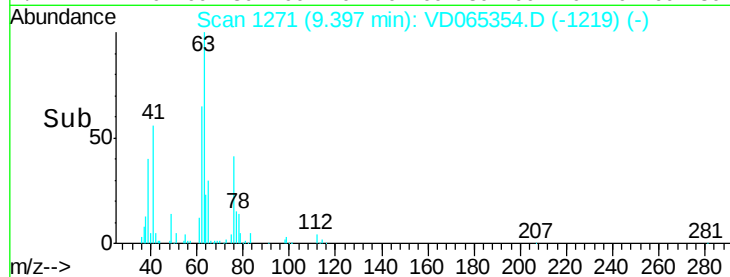
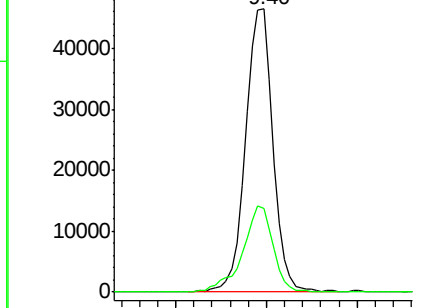
MMDadoda

3/2/2020 10:35:32 AM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 20.657 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

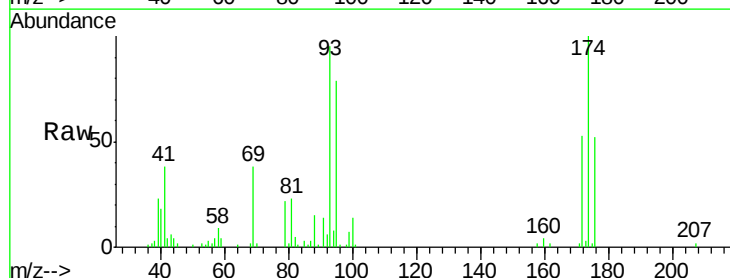
Tgt Ion: 93 Resp: 49412

Ion Ratio Lower Upper

93 100

95 81.6 65.8 98.6

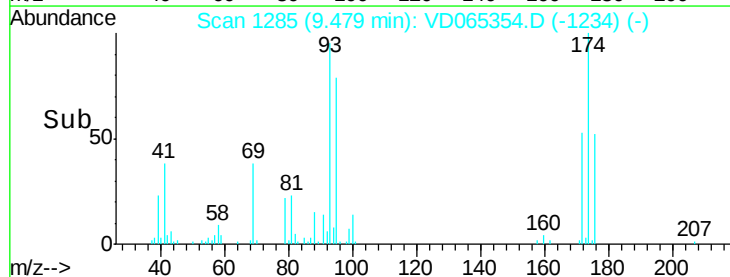
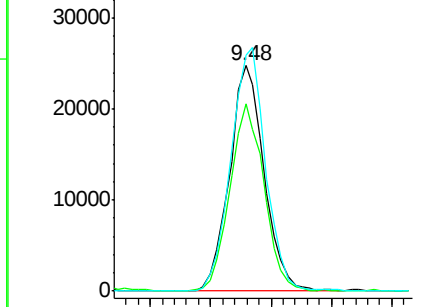
174 108.2 86.8 130.2

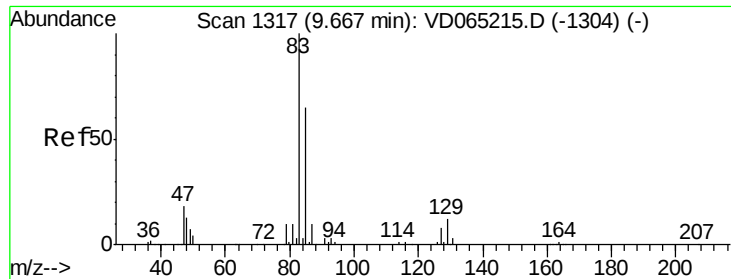


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): VDC





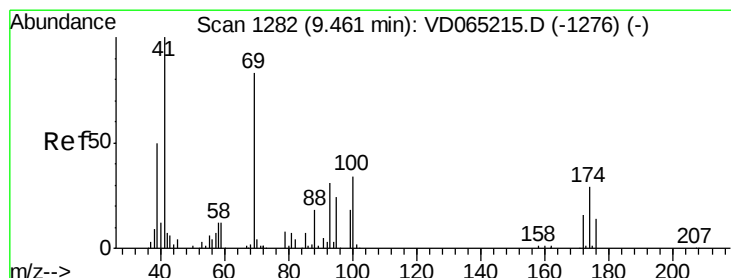
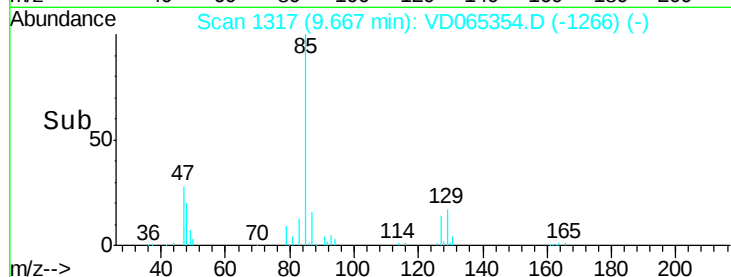
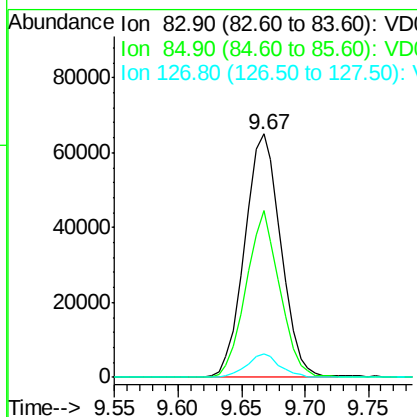
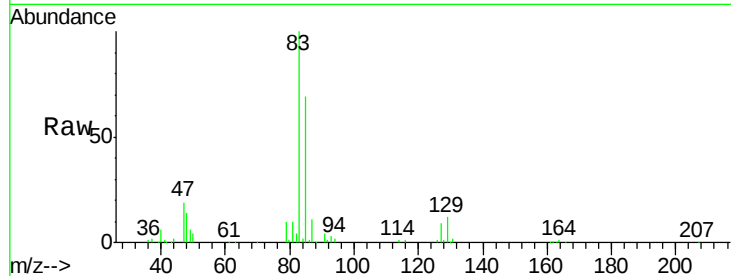
#47
Bromodichloromethane
Concen: 20.481 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion	83	Resp	129110
Ion Ratio	100	Lower	Upper
83	100		
85	68.7	52.0	78.0
127	9.4	6.7	10.1

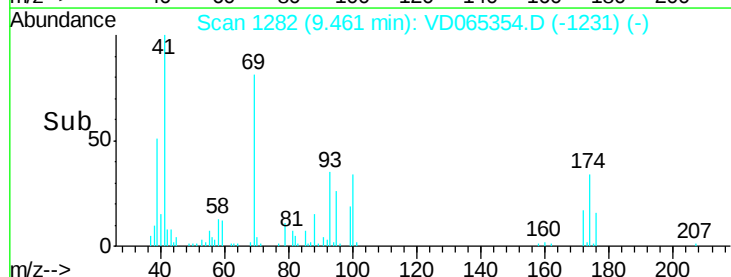
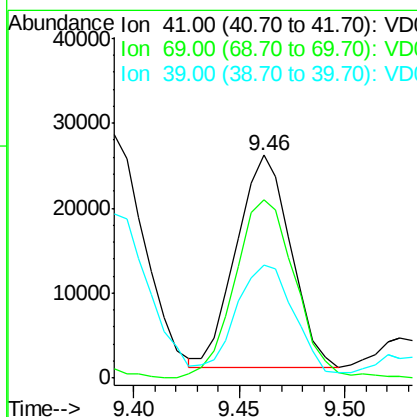
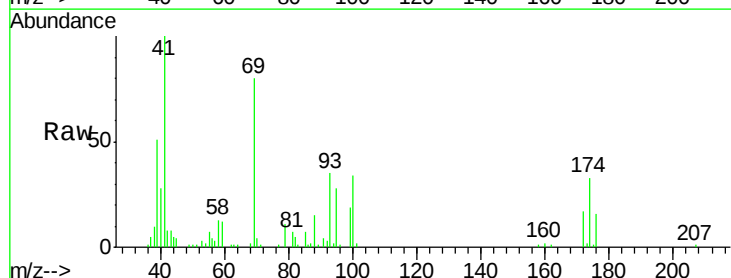
Manual Integrations
APPROVED

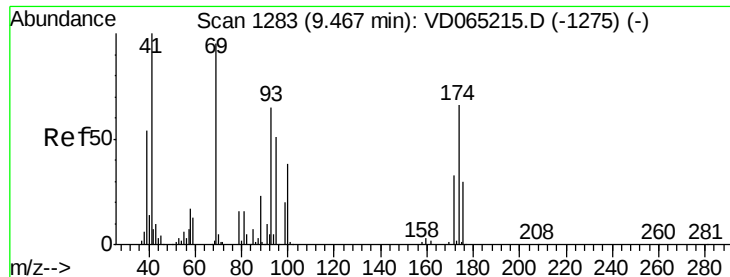
MMDadoda
3/2/2020 10:35:32 AM



#48
Methyl methacrylate
Concen: 19.126 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	41	Resp	44516
Ion Ratio	100	Lower	Upper
41	100		
69	93.7	68.2	102.2
39	52.9	42.0	63.0





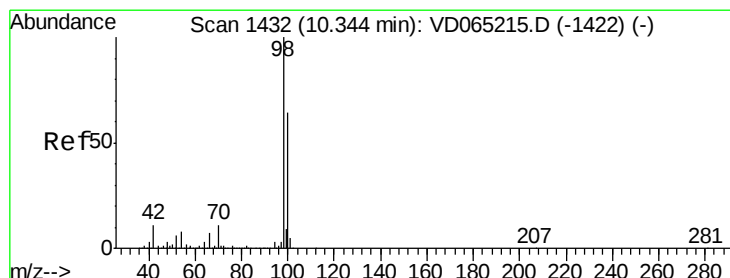
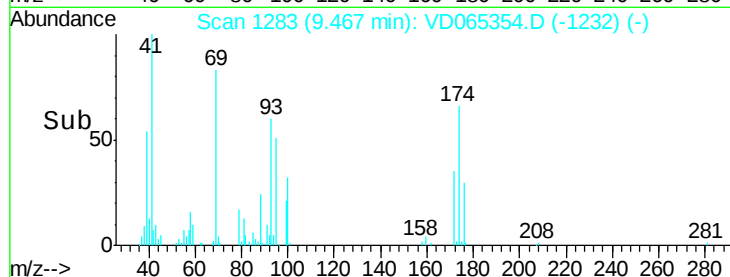
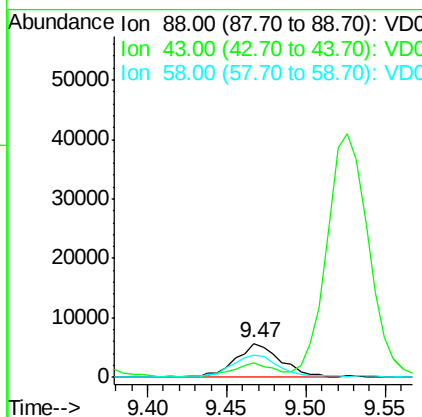
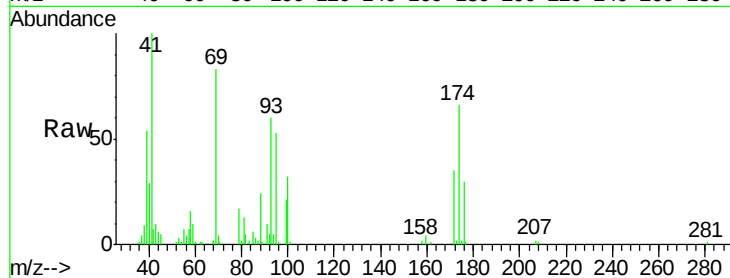
#49
1,4-Dioxane
Concen: 388.989 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.4	28.5	42.7
58	72.4	58.6	87.8

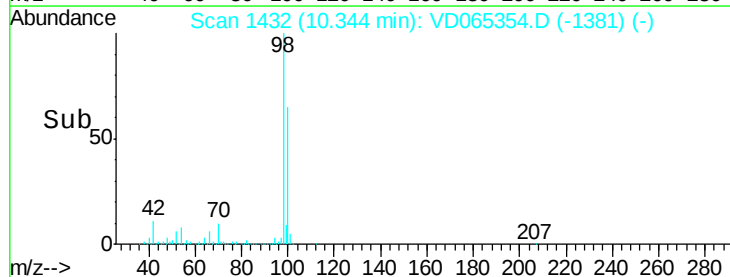
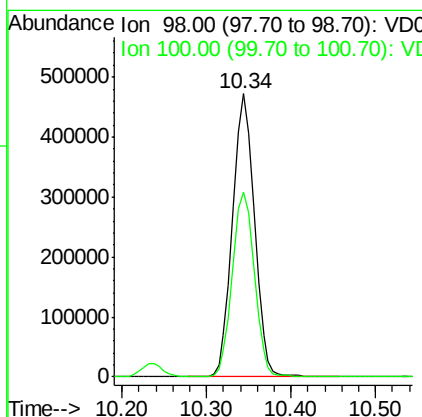
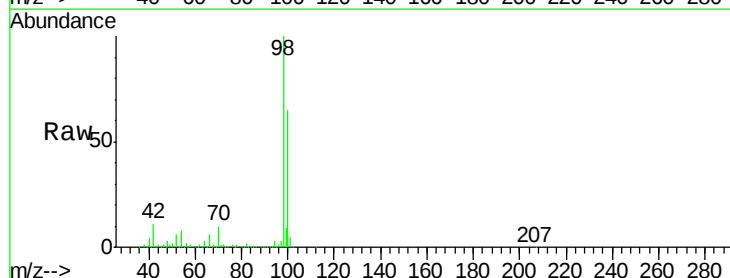
Manual Integrations
APPROVED

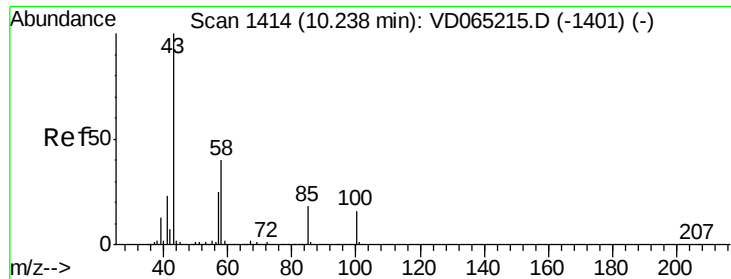
MMDadoda
3/2/2020 10:35:32 AM



#50
Toluene-d8
Concen: 53.088 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0





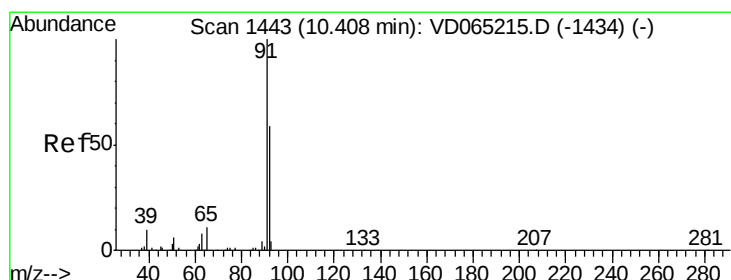
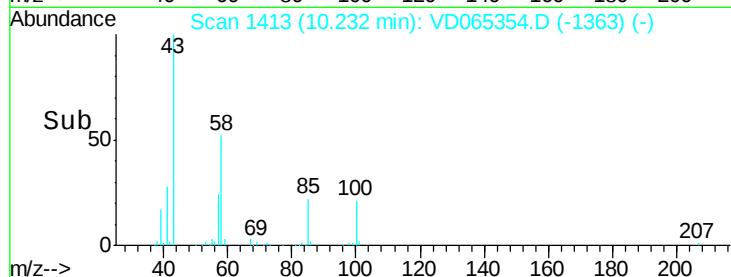
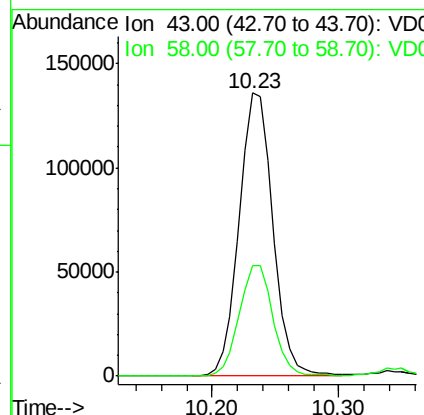
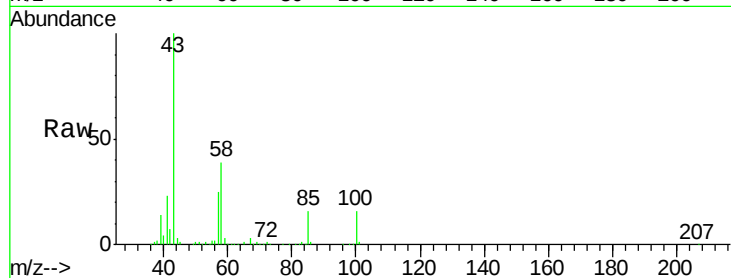
#51
4-Methyl-2-Pentanone
Concen: 98.359 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.1	46.7

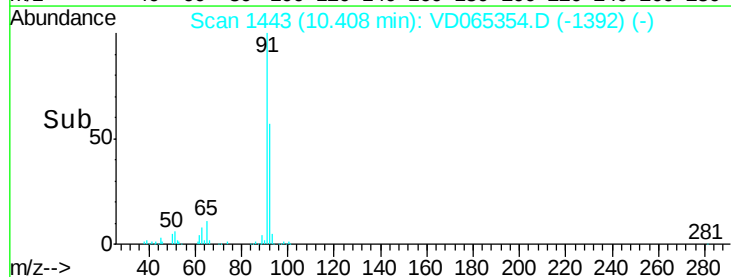
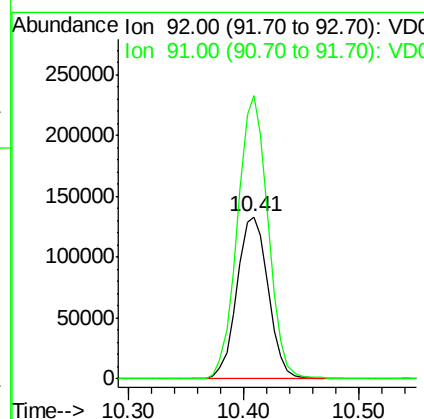
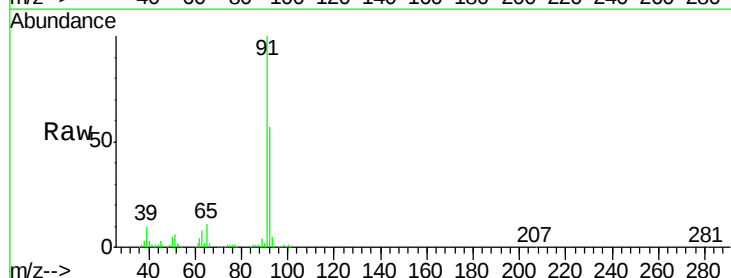
Manual Integrations
APPROVED

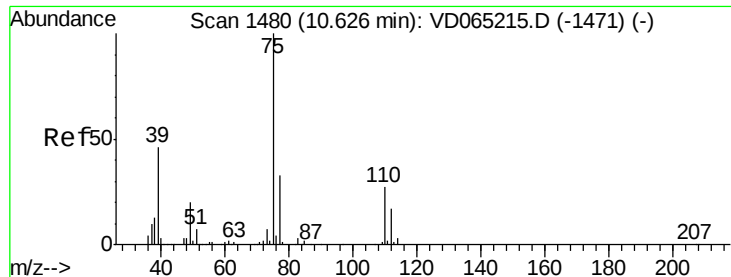
MMDadoda
3/2/2020 10:35:32 AM



#52
Toluene
Concen: 21.652 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
92	100		
91	170.9	136.3	204.5





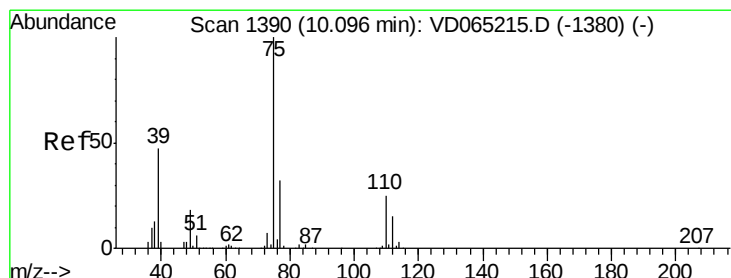
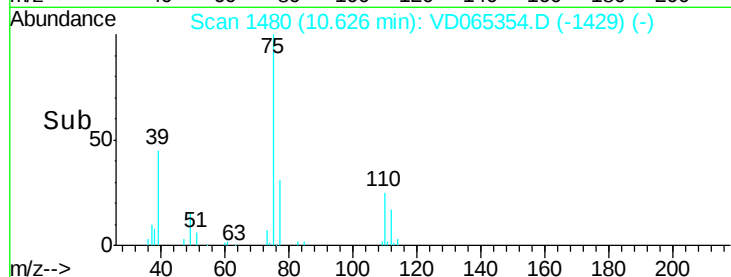
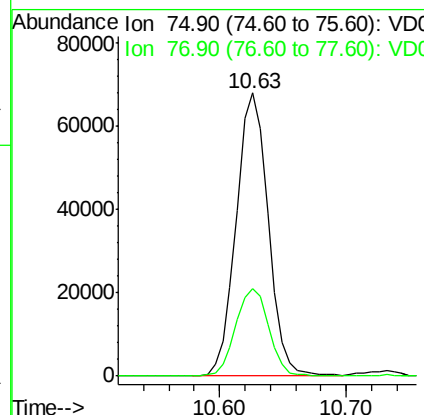
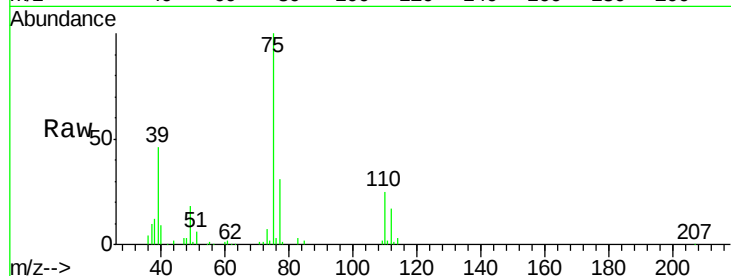
#53
t-1,3-Dichloropropene
Concen: 20.371 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion: 75 Resp: 119029
Ion Ratio Lower Upper
75 100
77 30.9 26.6 40.0

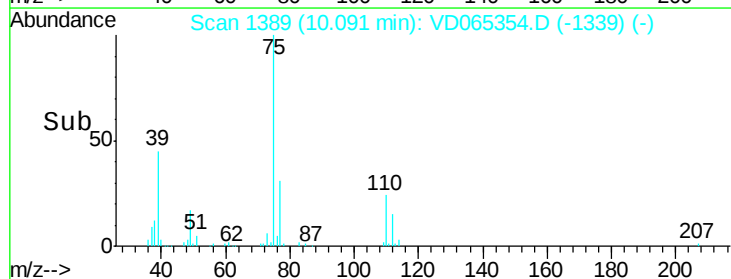
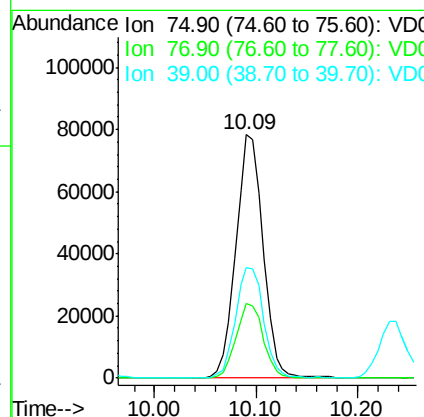
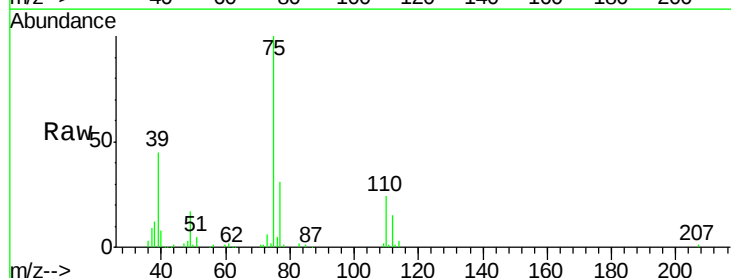
Manual Integrations
APPROVED

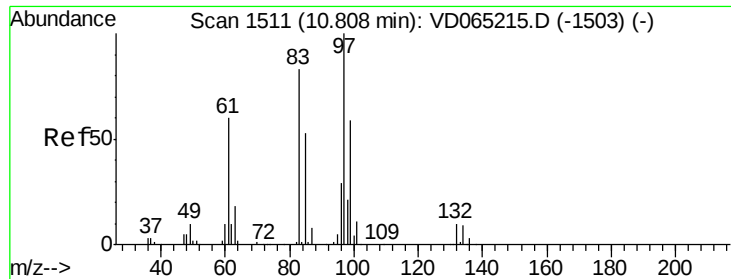
MMDadoda
3/2/2020 10:35:32 AM



#54
cis-1,3-Dichloropropene
Concen: 20.698 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion: 75 Resp: 146037
Ion Ratio Lower Upper
75 100
77 30.7 25.8 38.8
39 45.2 37.3 55.9





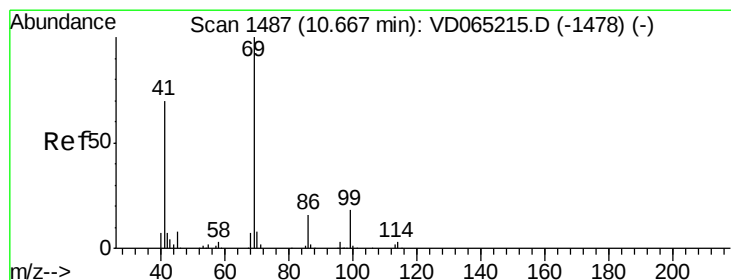
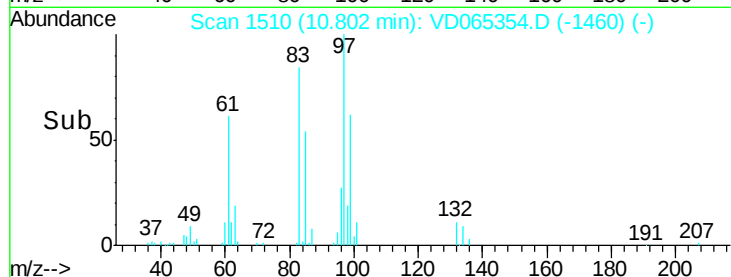
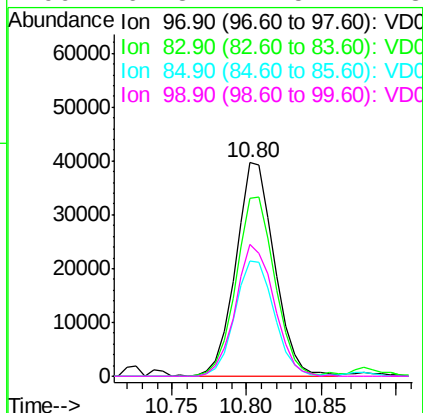
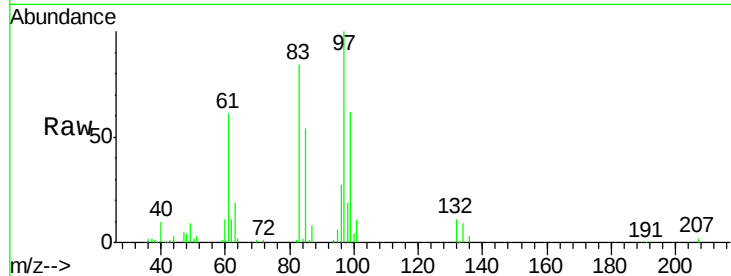
#55
 1,1,2-Trichloroethane
 Concen: 21.267 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.5	66.7	100.1
85	54.2	42.4	63.6
99	61.8	47.5	71.3

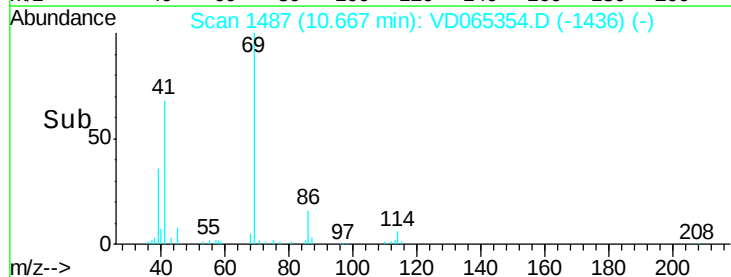
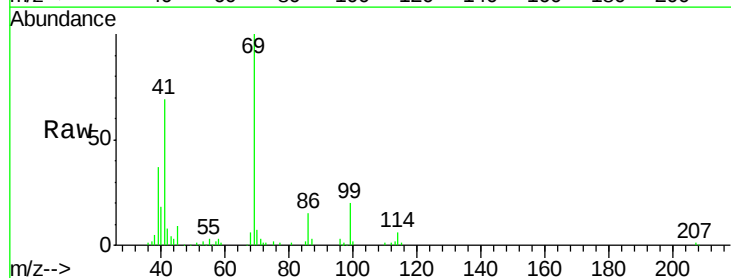
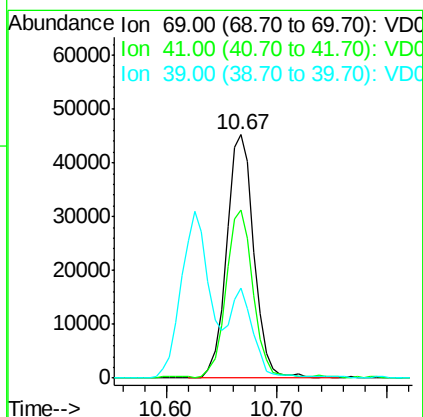
Manual Integrations
 APPROVED

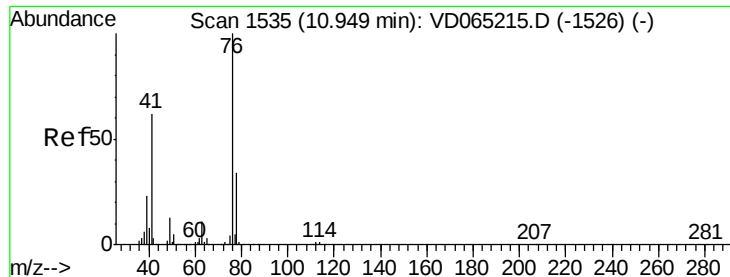
MMDadoda
 3/2/2020 10:35:32 AM



#56
 Ethyl methacrylate
 Concen: 20.116 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.6	81.8
39	31.0	26.5	39.7





#57

1,3-Dichloropropane

Concen: 20.470 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 76 Resp: 117299

Ion Ratio Lower Upper

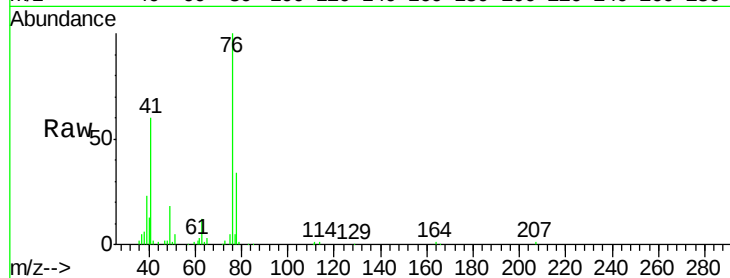
76 100

78 32.8 26.3 39.5

Manual Integrations
APPROVED

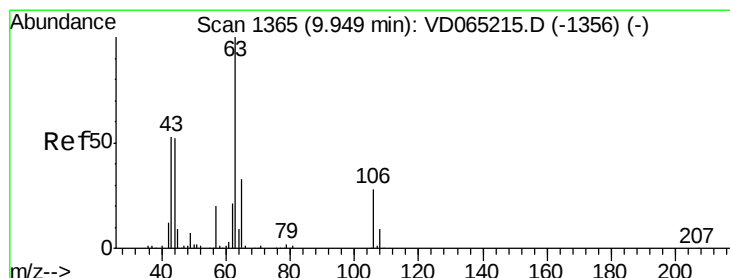
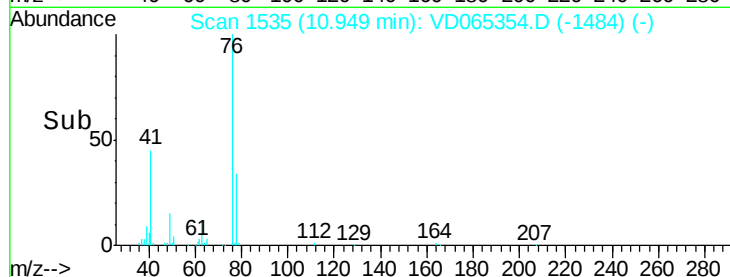
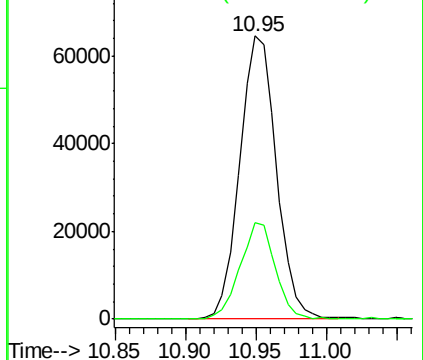
MMDadoda

3/2/2020 10:35:32 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 102.068 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VD065354.D

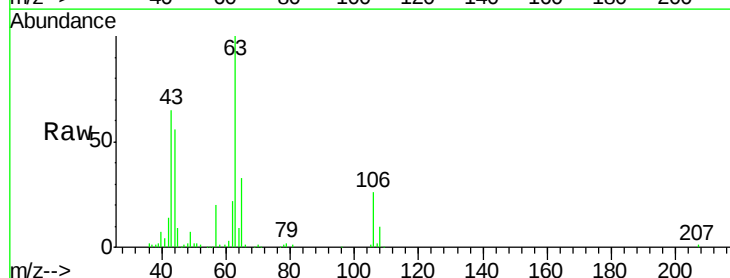
Acq: 28 Feb 2020 12:09

Tgt Ion: 63 Resp: 125048

Ion Ratio Lower Upper

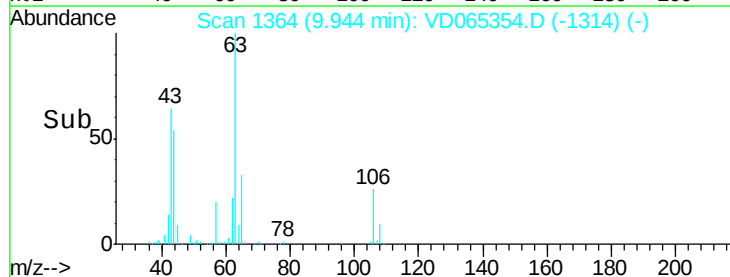
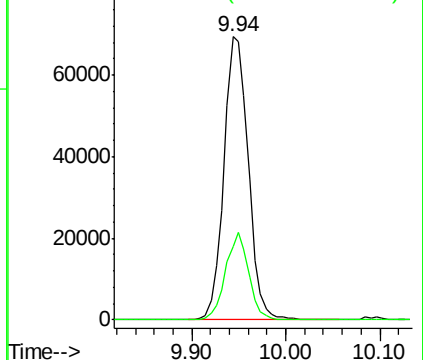
63 100

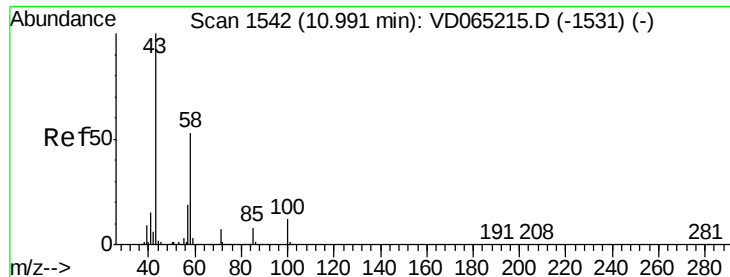
106 29.1 22.8 34.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V





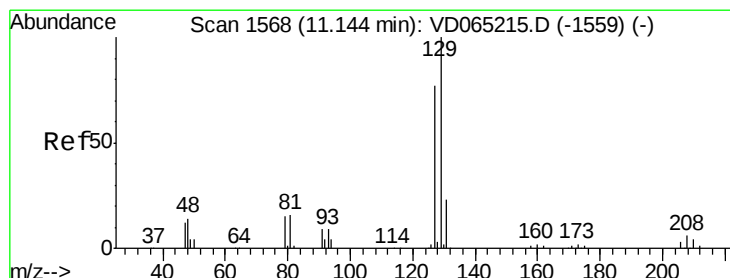
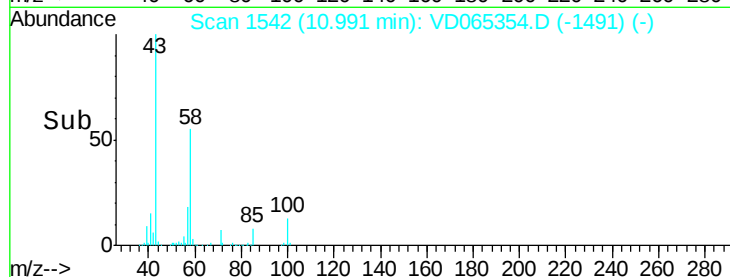
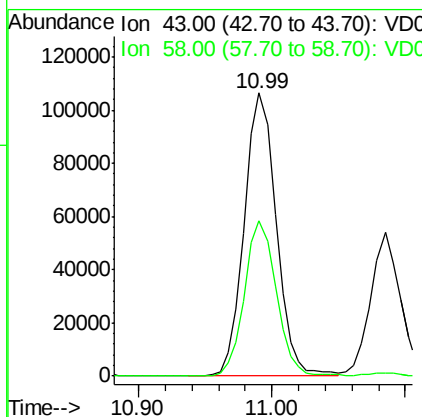
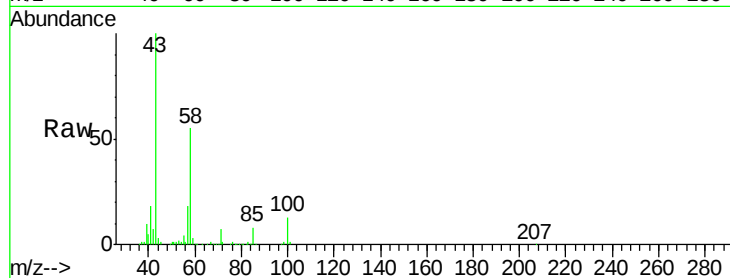
#59
2-Hexanone
Concen: 96.454 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion: 43 Resp: 176590
Ion Ratio Lower Upper
43 100
58 54.8 26.3 78.8

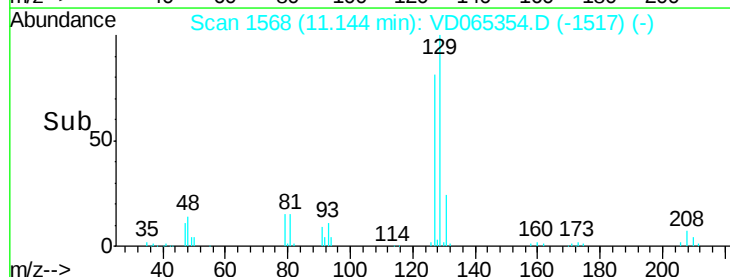
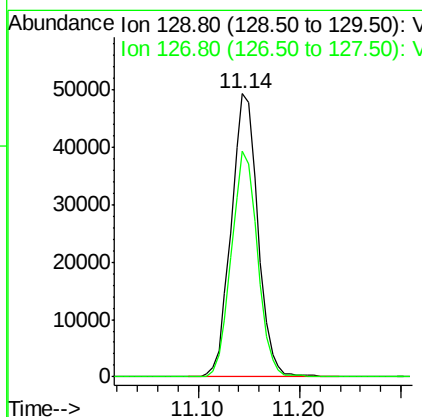
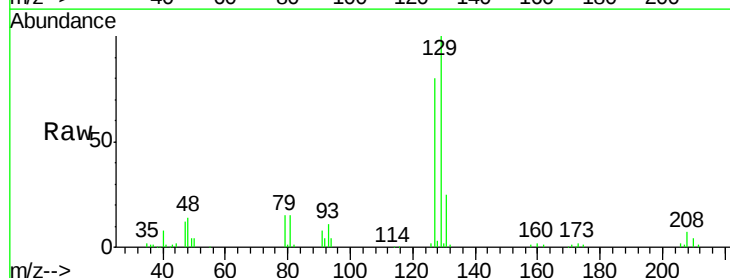
Manual Integrations
APPROVED

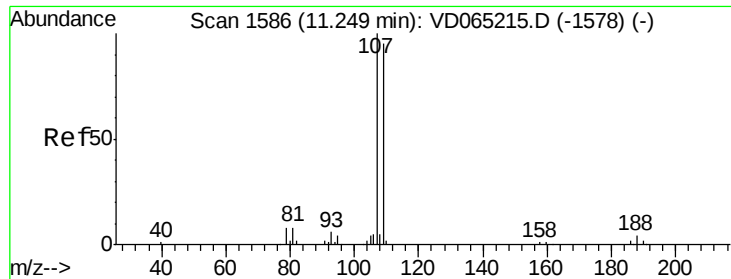
MMDadoda
3/2/2020 10:35:32 AM



#60
Dibromochloromethane
Concen: 20.936 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion: 129 Resp: 90218
Ion Ratio Lower Upper
129 100
127 77.9 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.673 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBSD01

Tot Ion: 107 Resp: 65900

Ion Ratio Lower Upper

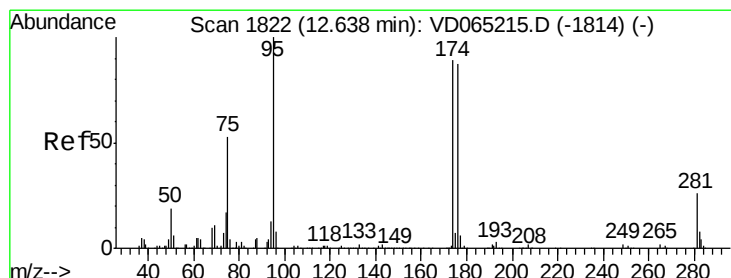
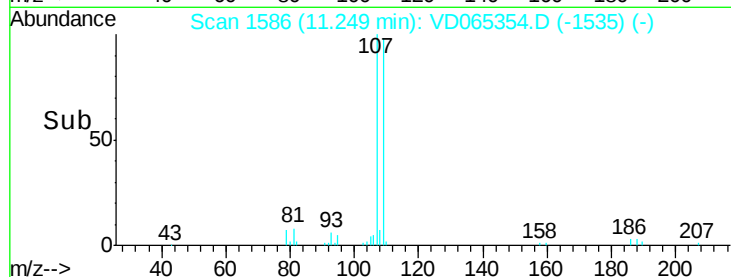
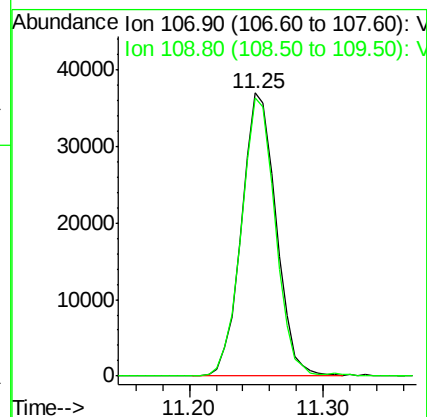
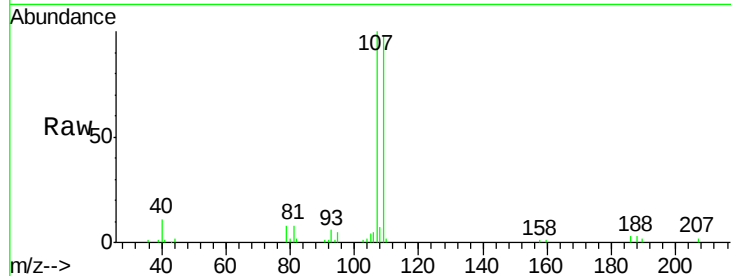
107 100

109 96.5 76.2 114.4

Manual Integrations
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MMDadoda

3/2/2020 10:35:32 AM



#62

4-Bromofluorobenzene

Concen: 53.503 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

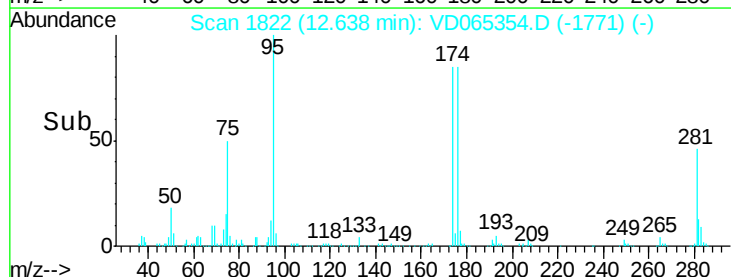
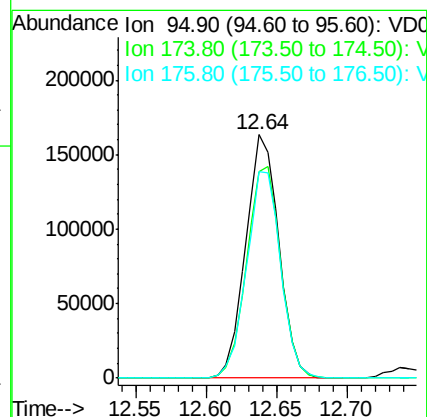
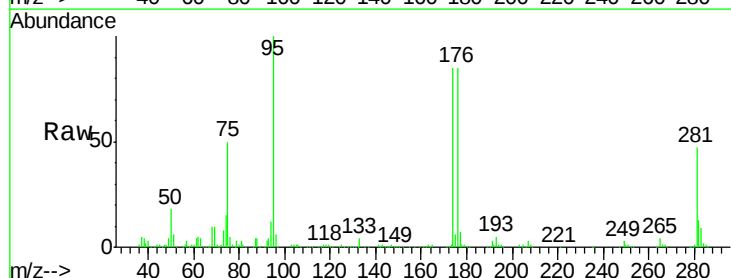
Tgt Ion: 95 Resp: 268961

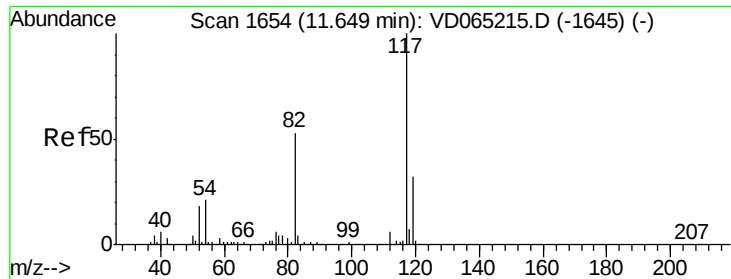
Ion Ratio Lower Upper

95 100

174 89.0 0.0 178.0

176 87.3 0.0 174.4





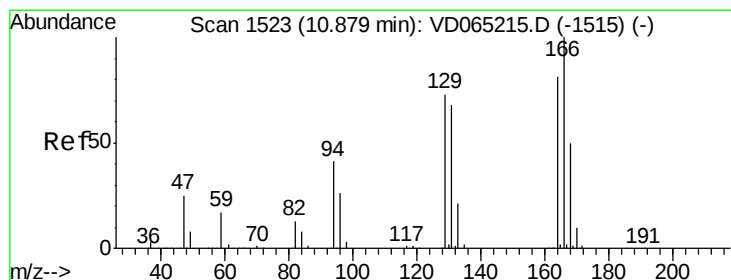
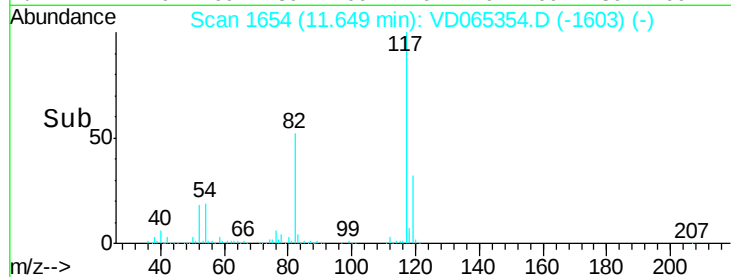
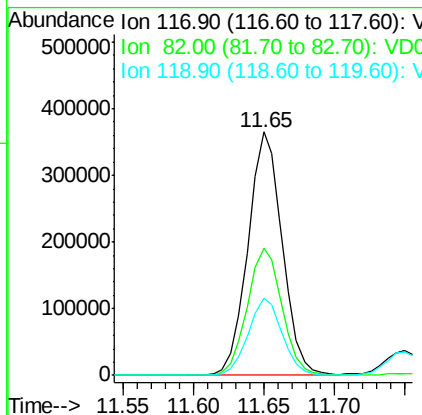
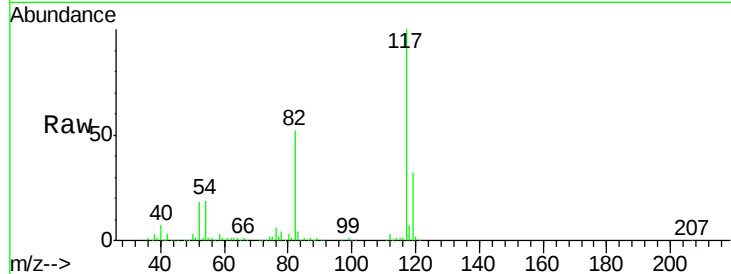
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.7	64.1
119	31.8	25.5	38.3

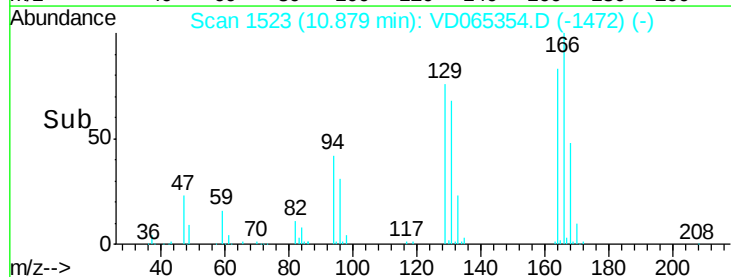
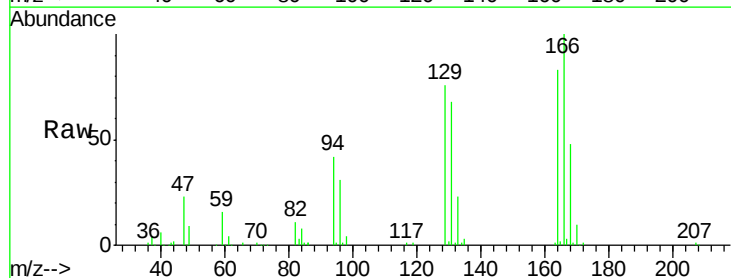
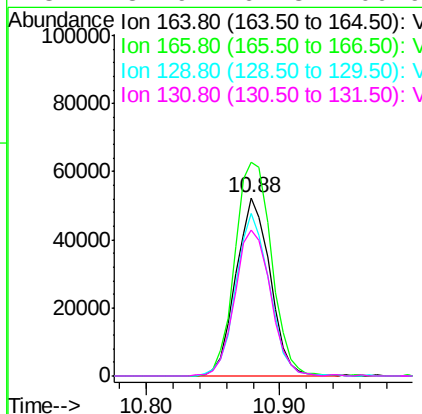
Manual Integrations
APPROVED

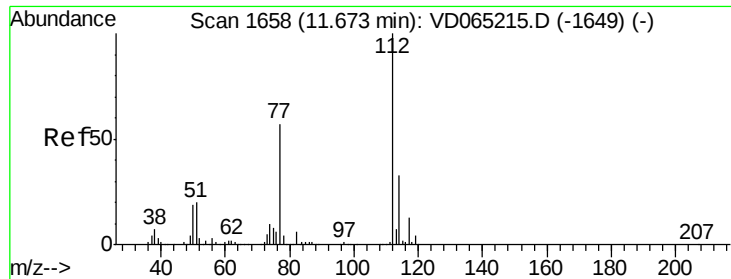
MMDadoda
3/2/2020 10:35:32 AM



#64
Tetrachloroethene
Concen: 21.115 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.9	98.4	147.6
129	91.5	71.6	107.4
131	81.9	67.3	100.9





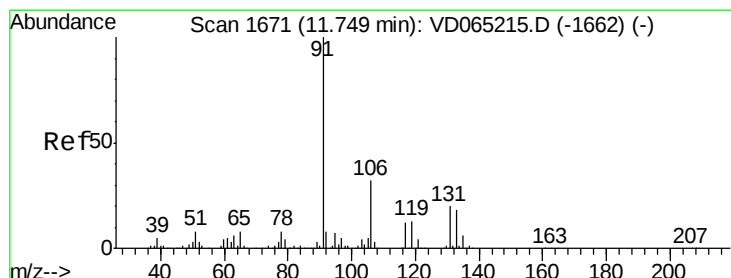
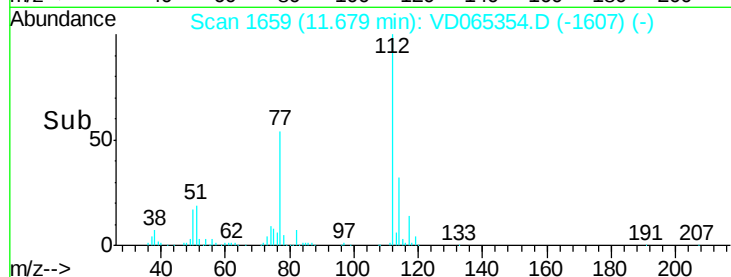
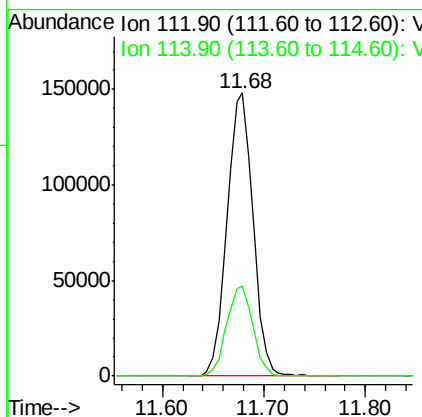
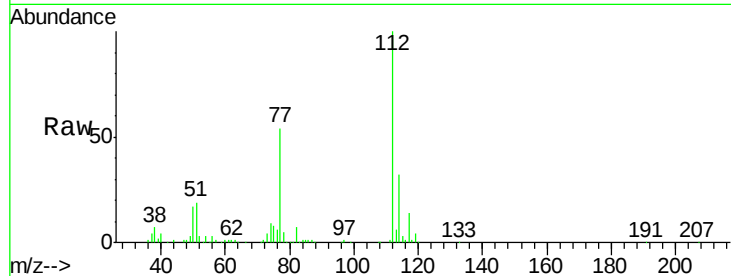
#65
Chlorobenzene
Concen: 21.026 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	262015		
114	31.8	26.4	39.6	

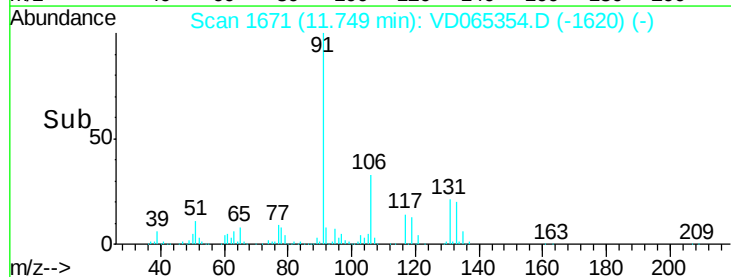
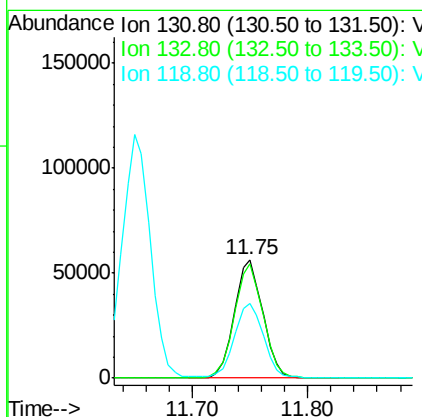
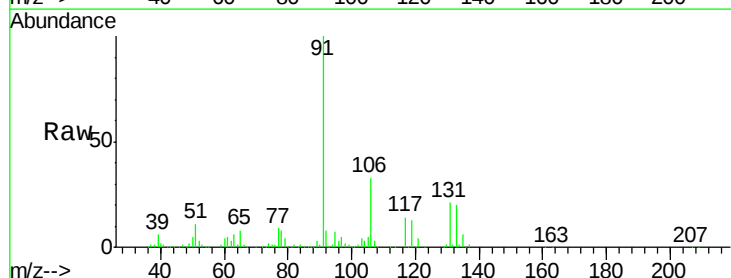
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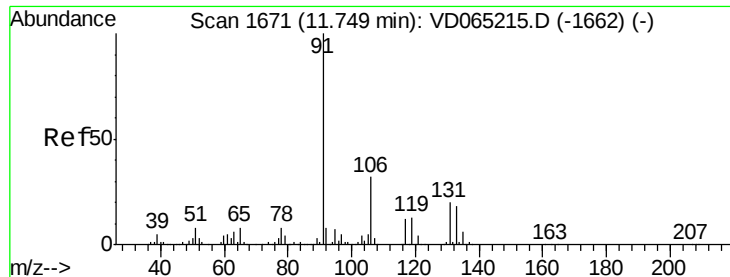
MMDadoda
3/2/2020 10:35:32 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.659 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	96070		
133	97.5	47.7	143.1	
119	65.4	32.7	98.1	





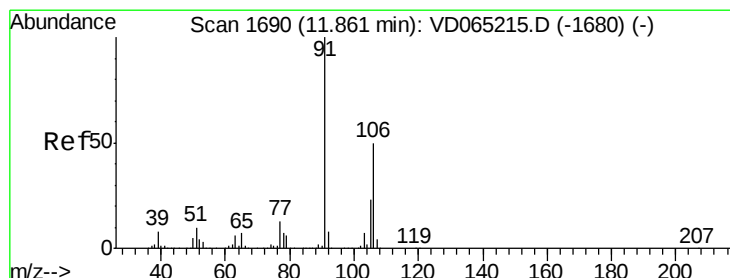
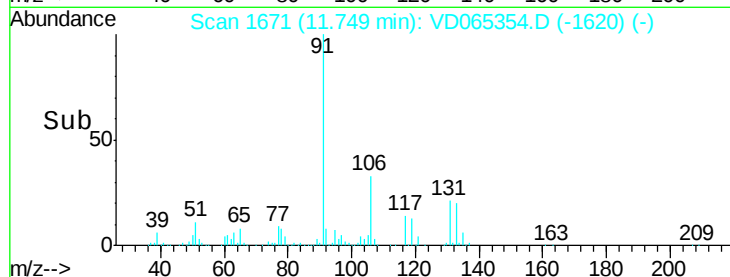
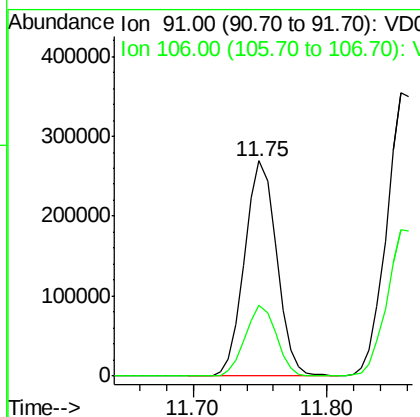
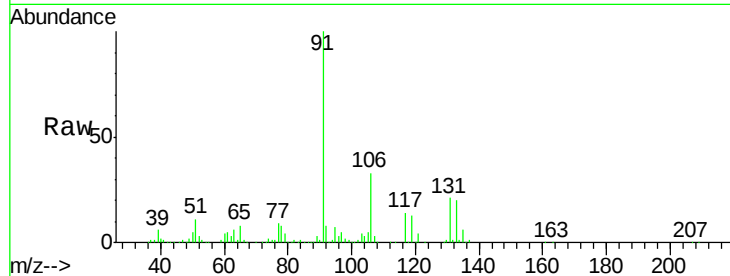
#67
Ethyl Benzene
Concen: 20.509 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion: 91 Resp: 447605
Ion Ratio Lower Upper
91 100
106 32.7 25.2 37.8

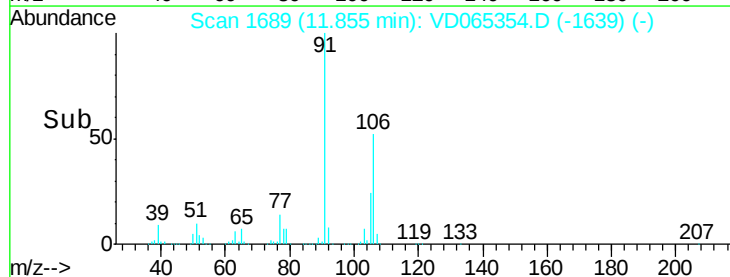
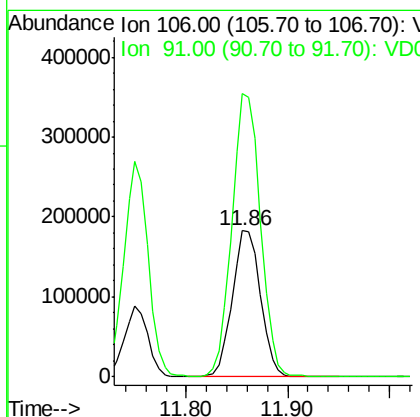
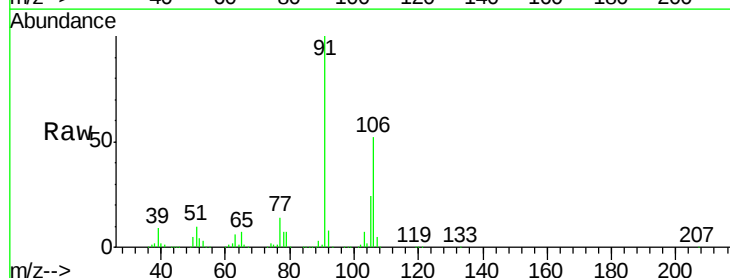
Manual Integrations
APPROVED

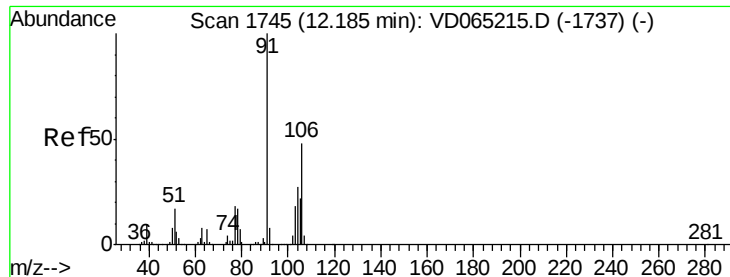
MMDadoda
3/2/2020 10:35:32 AM



#68
m/p-Xylenes
Concen: 42.509 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion: 106 Resp: 354957
Ion Ratio Lower Upper
106 100
91 195.2 158.2 237.4





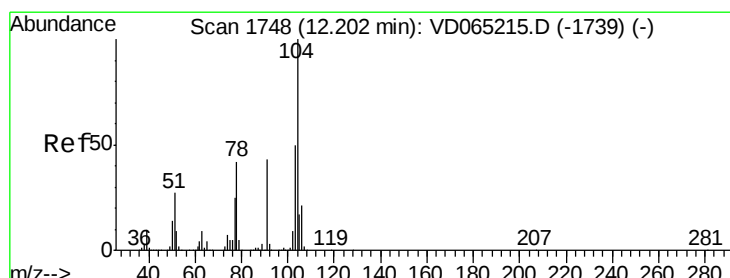
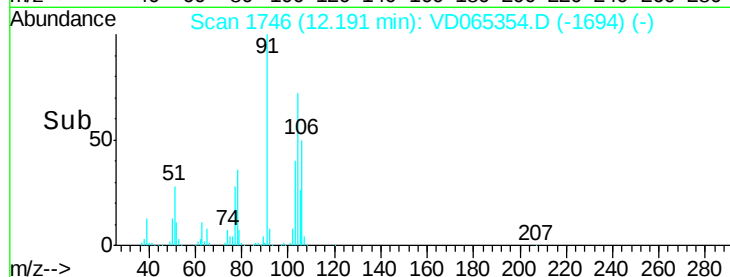
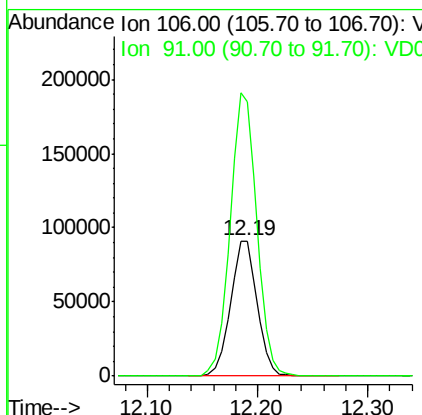
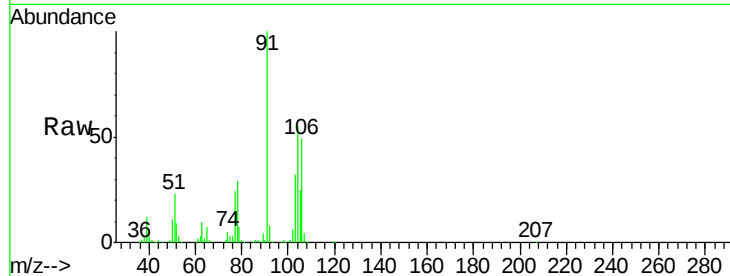
#69
o-Xylene
Concen: 20.817 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	209.7	104.7	313.9		

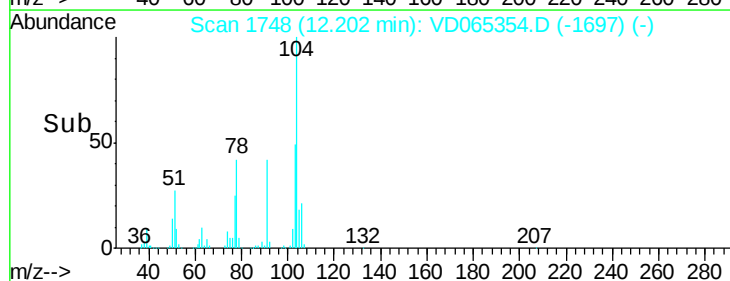
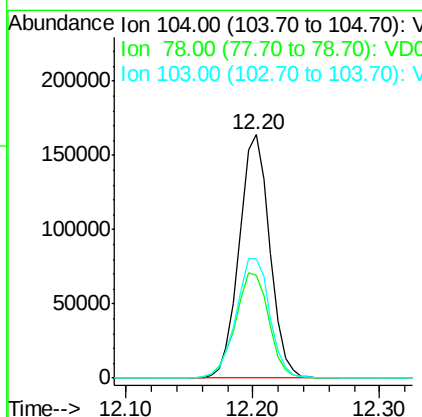
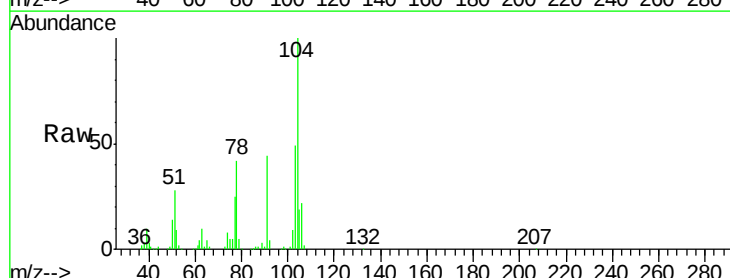
Manual Integrations
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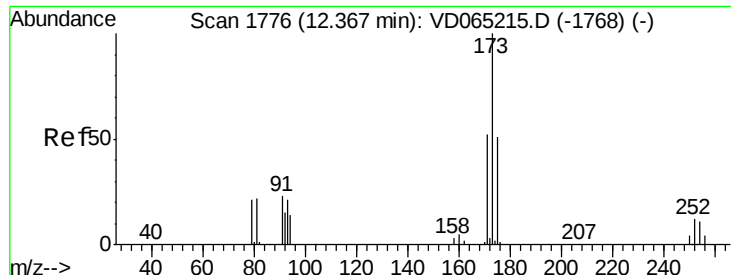
MMDadoda
3/2/2020 10:35:32 AM



#70
Styrene
Concen: 20.890 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	47.4	37.8	56.6		
103	54.4	43.4	65.2		





#71

Bromoform

Concen: 20.375 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

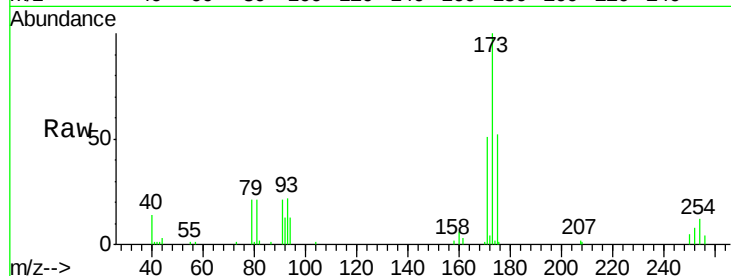
ClientSampleId :

VD0228SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.4	73.4
254	0.1	0.0	0.0

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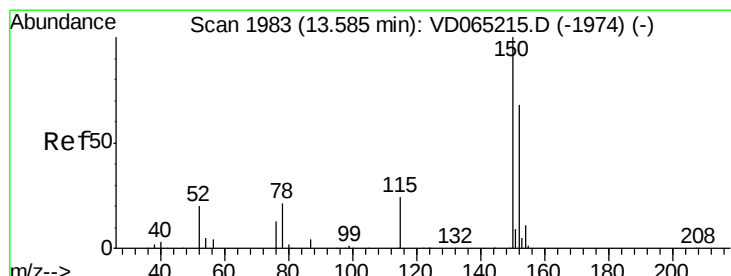
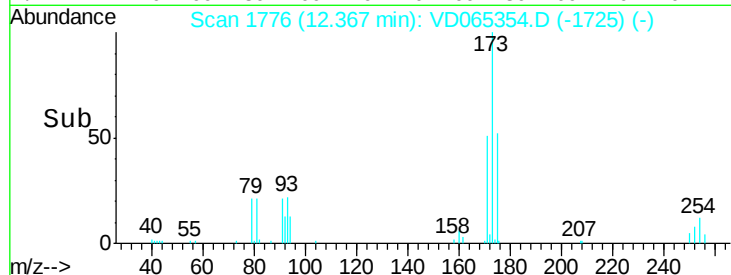
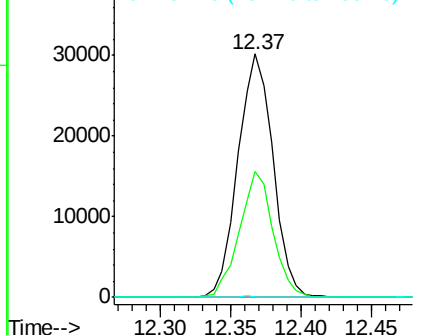


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

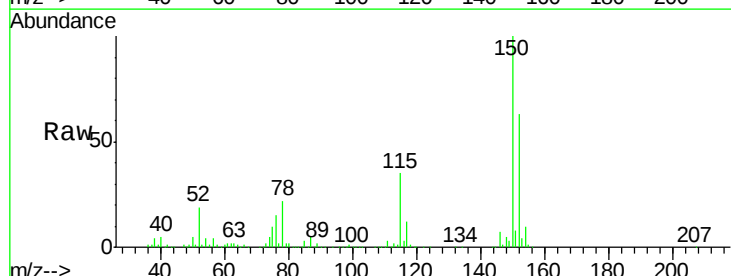
RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.6	82.8
150	165.9	0.0	347.4

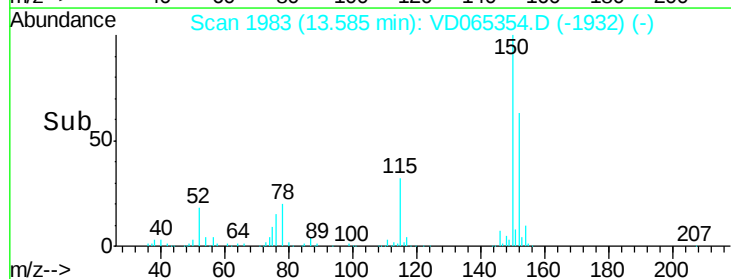
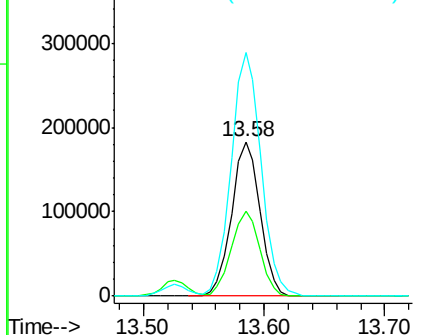


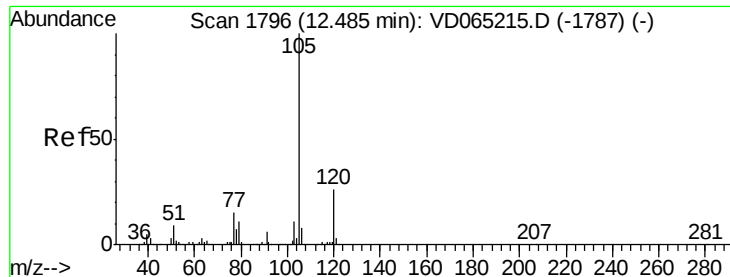
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.497 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 105 Resp: 425757

Ion Ratio Lower Upper

105 100

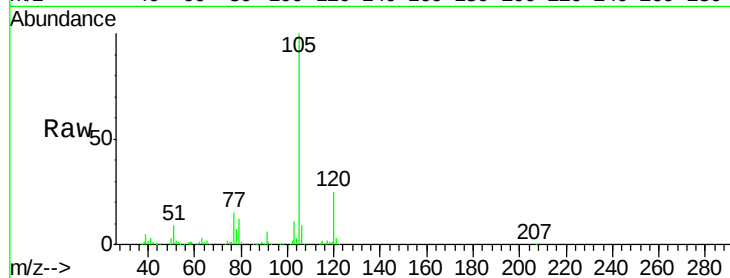
120 26.6 13.3 39.9

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

250000

200000

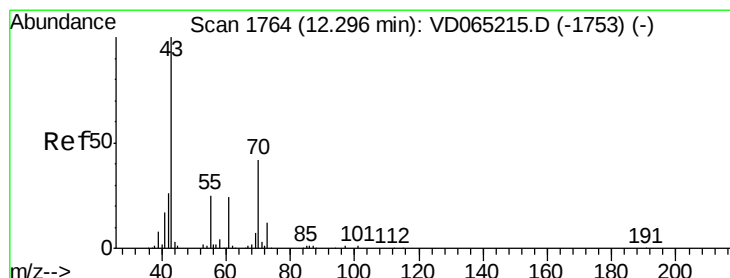
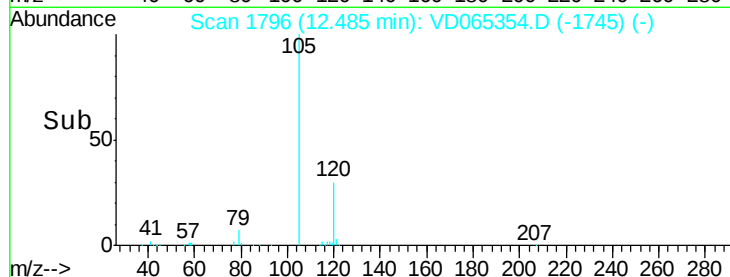
150000

100000

50000

0

Time--> 12.40 12.50 12.60



#74

N-ethyl acetate

Concen: 19.945 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion: 43 Resp: 87774

Ion Ratio Lower Upper

43 100

70 43.4 33.7 50.5

55 27.8 20.7 31.1

61 23.7 19.0 28.4

Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

80000

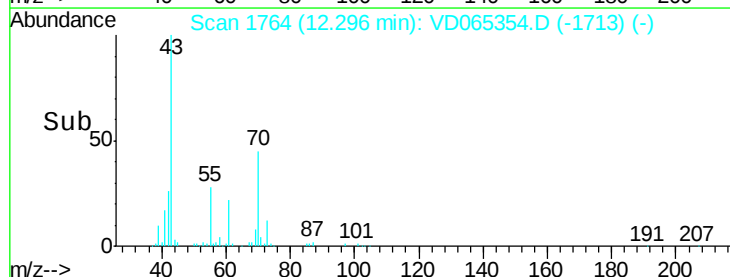
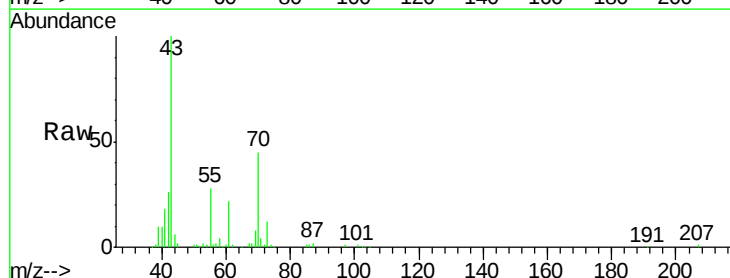
60000

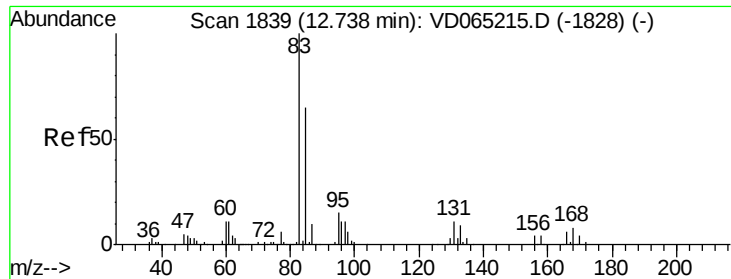
40000

20000

0

Time--> 12.20 12.30 12.40 12.50





#75

1,1,2,2-Tetrachloroethane

Concen: 20.932 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

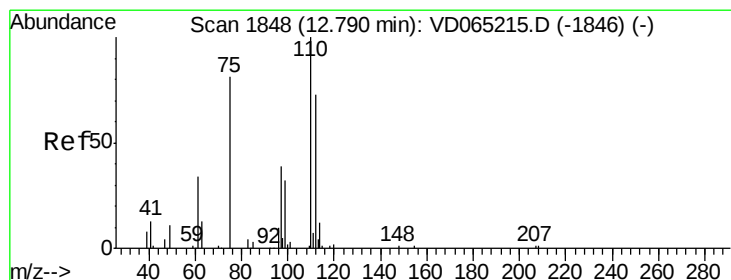
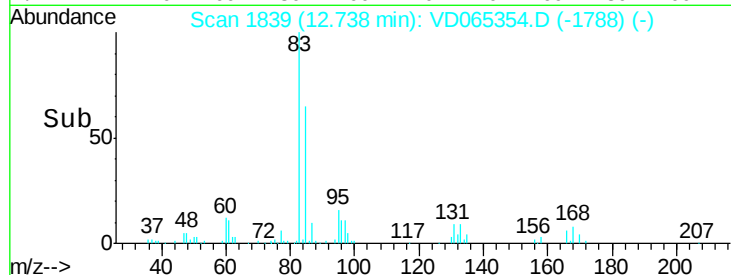
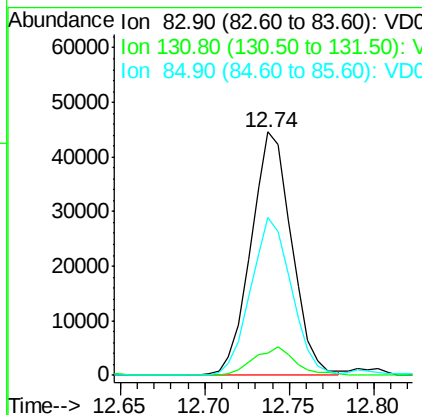
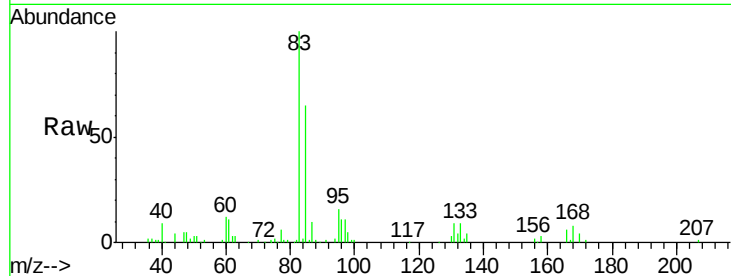
ClientSampleId :

VD0228SBS01

Tot Ion:	83	Resp:	74821
Ion Ratio	Lower	Upper	
83	100		
131	11.6	5.4	16.2
85	65.0	31.6	94.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.919 ug/l m

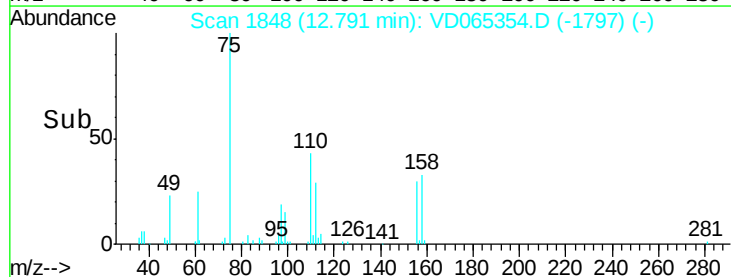
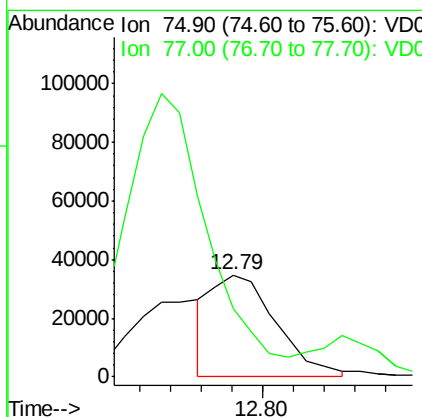
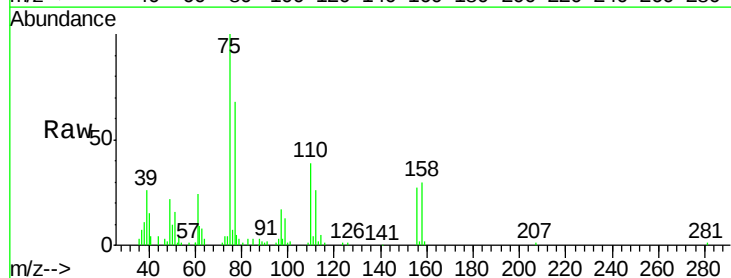
RT: 12.79 min Scan# 1848

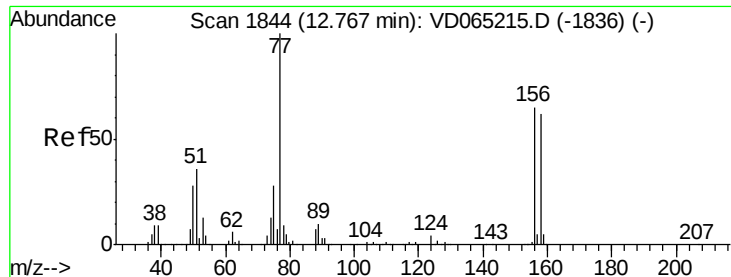
Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	75	Resp:	50700
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.389 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

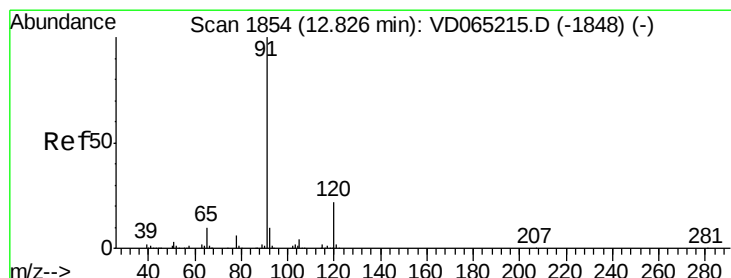
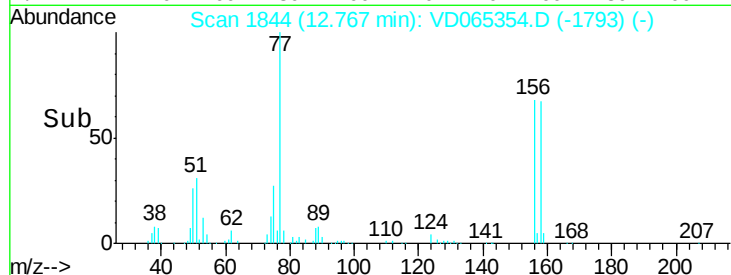
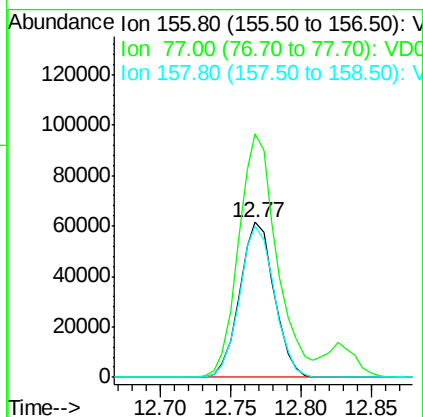
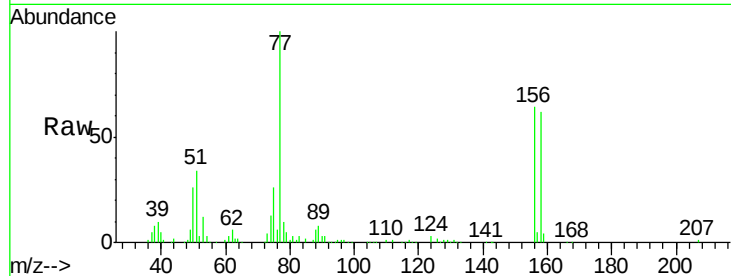
ClientSampleId :

VD0228SBS01

Tot Ion:	156	Resp:	105193
Ion Ratio	Lower	Upper	
156	100		
77	173.6	86.6	259.7
158	98.2	48.1	144.3

Manual Integrations
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#78

n-propylbenzene

Concen: 21.775 ug/l

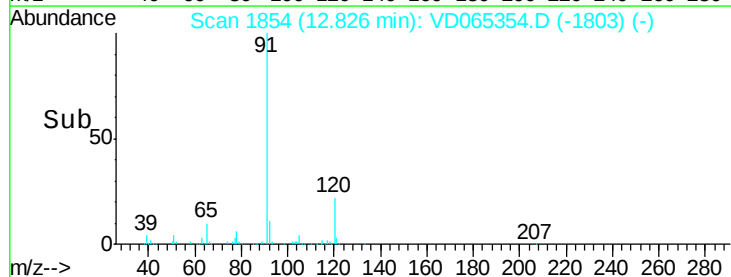
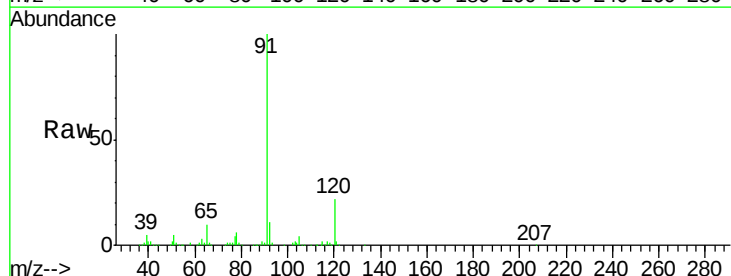
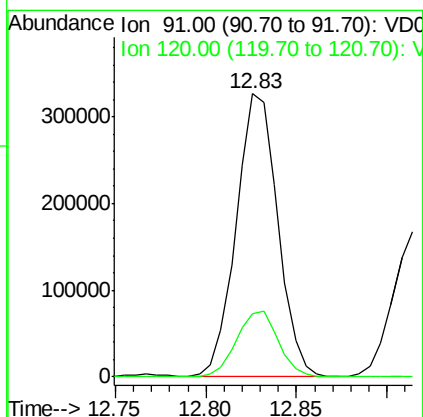
RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	91	Resp:	518261
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.5	34.5





#79

2-Chlorotoluene

Concen: 21.462 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

ClientSampleId :

VD0228SBS01

Tot Ion: 91 Resp: 286159

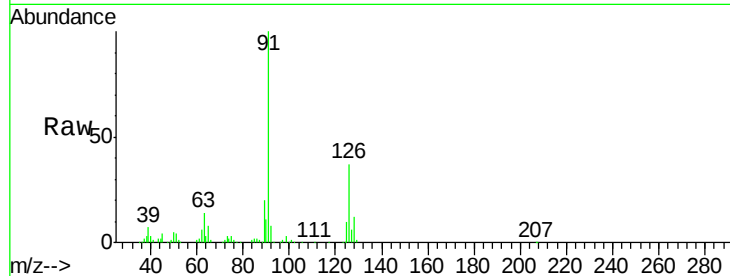
Ion Ratio Lower Upper

91 100

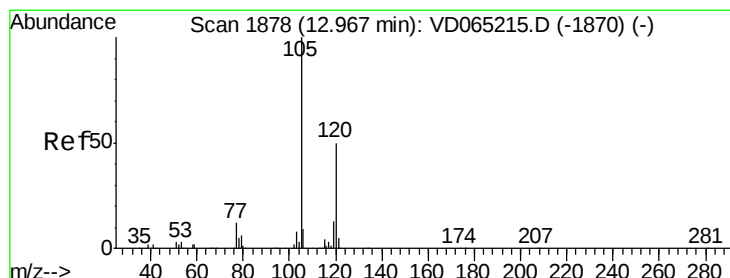
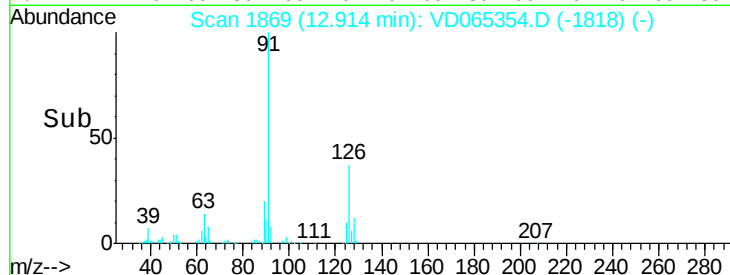
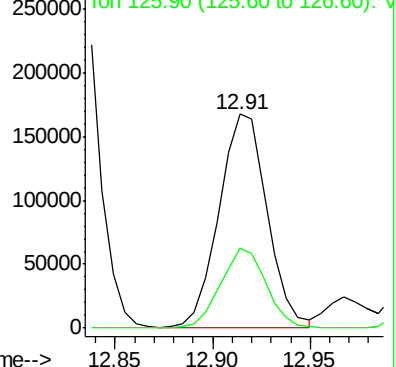
126 35.6 17.5 52.6

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Abundance Ion 91.00 (90.70 to 91.70): VD065215.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.170 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065354.D

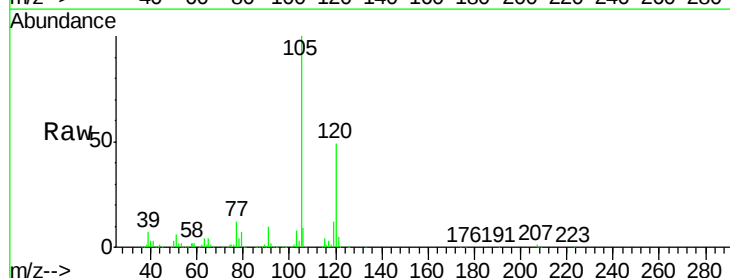
Acq: 28 Feb 2020 12:09

Tgt Ion: 105 Resp: 361644

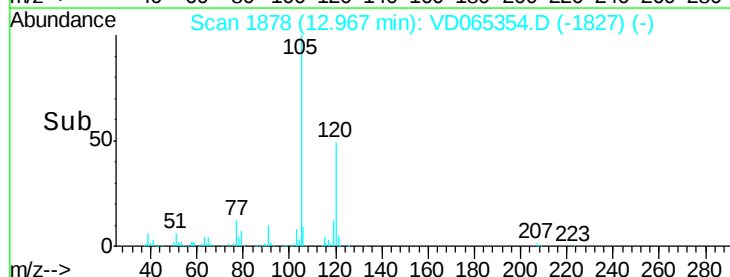
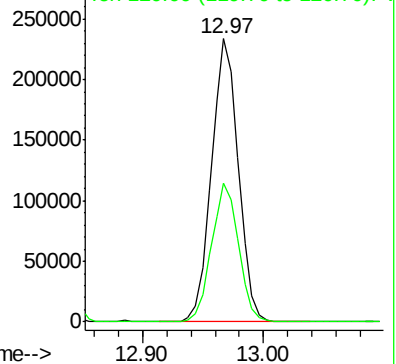
Ion Ratio Lower Upper

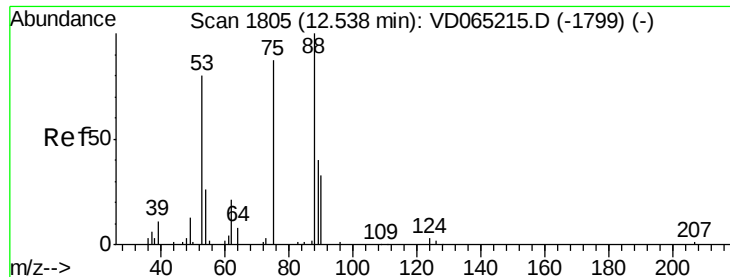
105 100

120 49.4 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): VD065215.D (-1870) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.193 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Instrument :

MSVOA_D

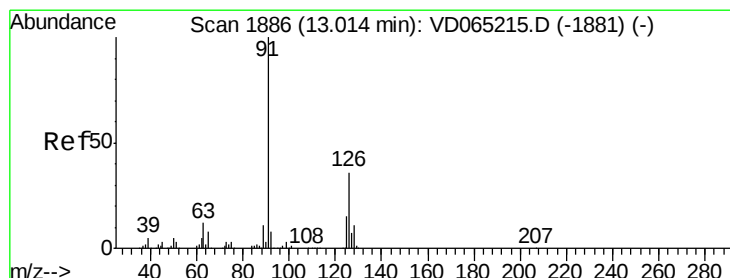
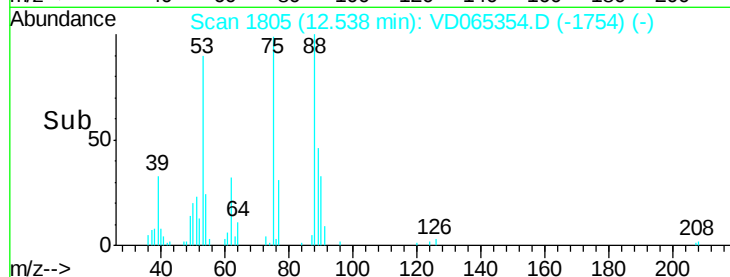
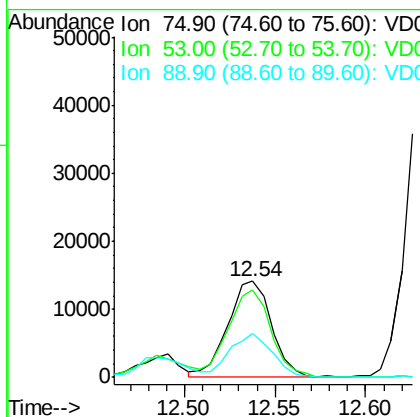
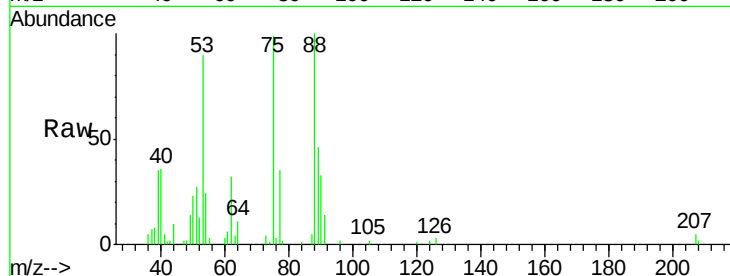
ClientSampleId :

VD0228SBS01

Tot Ion:	75	Resp:	23804
Ion	Ratio	Lower	Upper
75	100		
53	87.9	77.6	116.4
89	44.7	37.2	55.8

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#82

4-Chlorotoluene

Concen: 21.422 ug/l

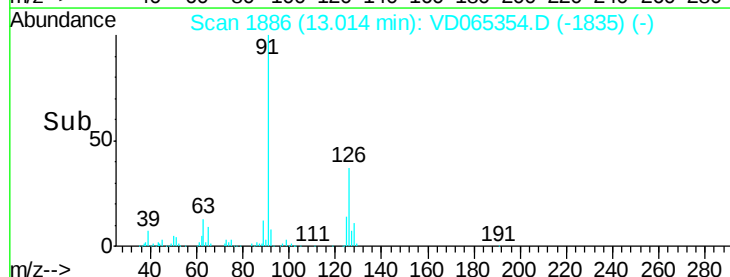
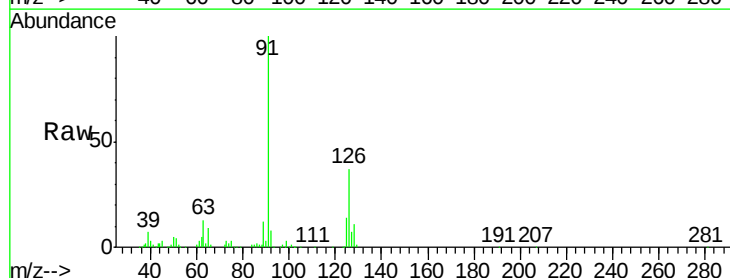
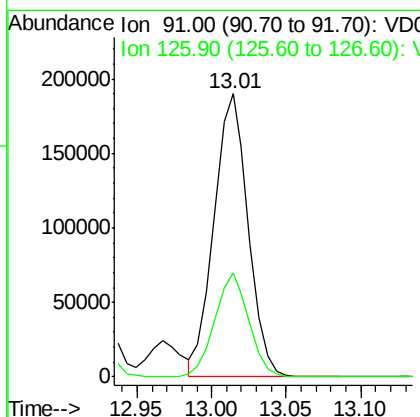
RT: 13.01 min Scan# 1886

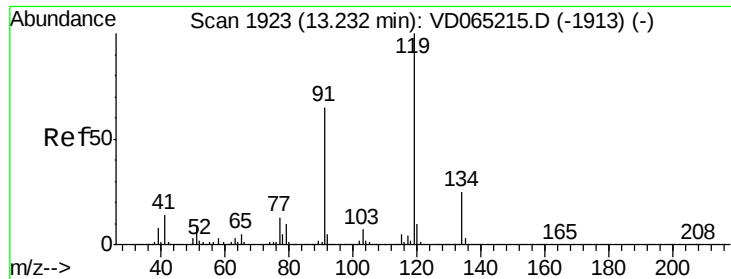
Delta R.T. 0.00 min

Lab File: VD065354.D

Acq: 28 Feb 2020 12:09

Tgt Ion:	91	Resp:	303228
Ion	Ratio	Lower	Upper
91	100		
126	36.5	17.4	52.3





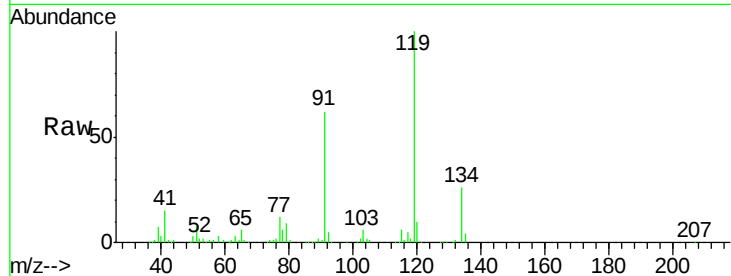
#83
tert-Butylbenzene
Concen: 21.548 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBS01

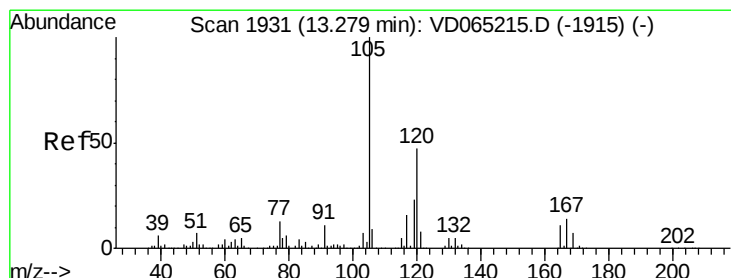
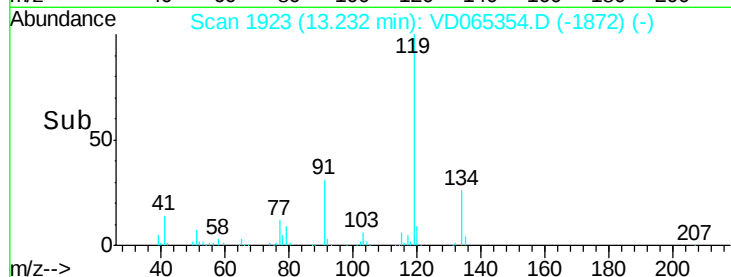
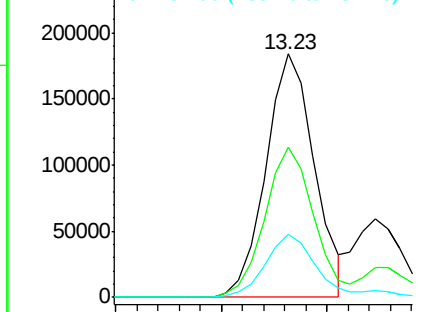
Tot Ion	Ratio	Resp	Lower	Upper
119	100	294593		
91	62.3		31.9	95.5
134	27.9		13.8	41.3

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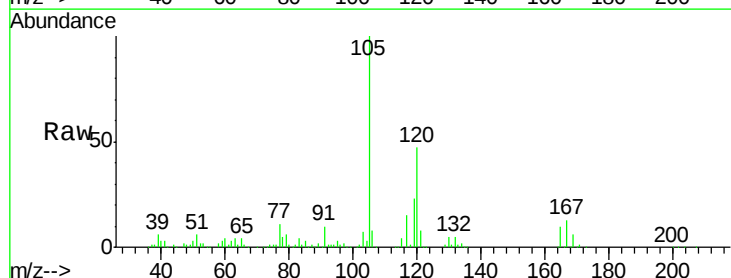


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

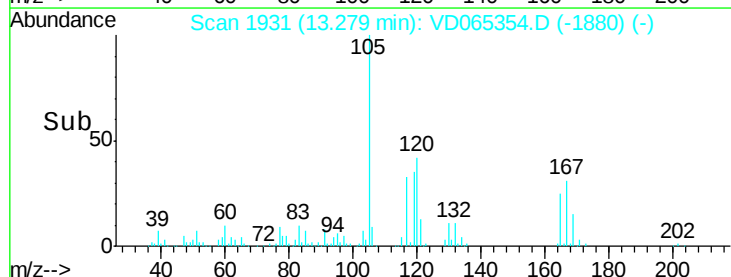
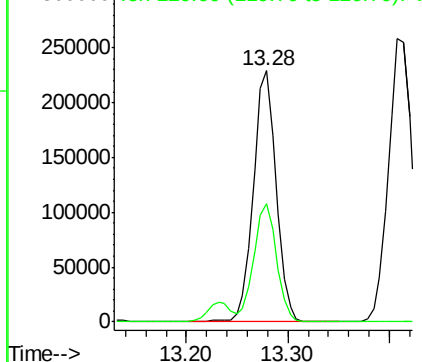


#84
1,2,4-Trimethylbenzene
Concen: 21.880 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	357240		
120	46.7		23.3	69.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





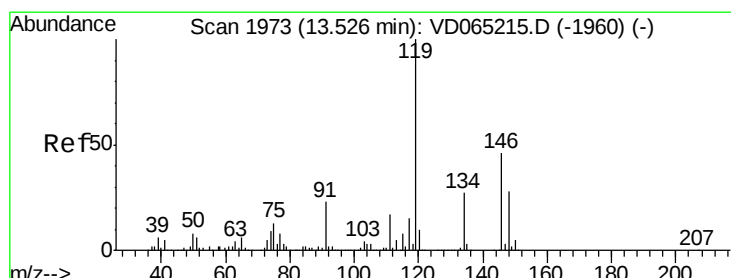
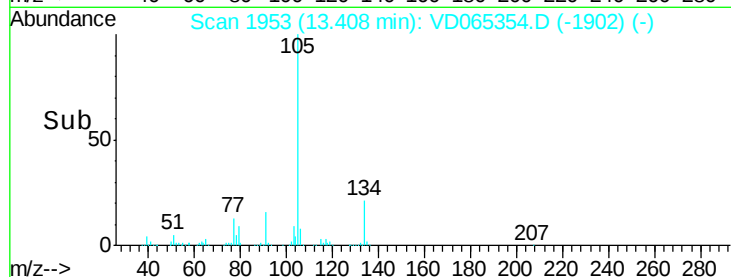
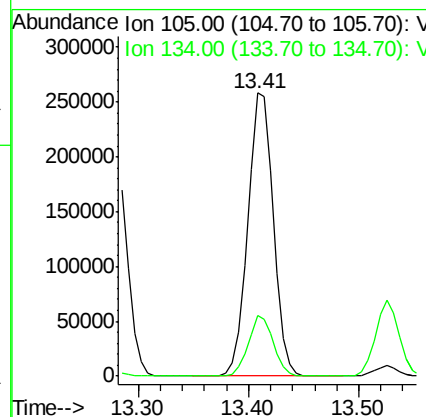
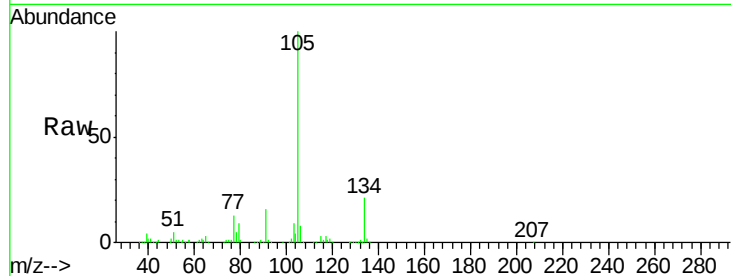
#85
 sec-Butylbenzene
 Concen: 21.322 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.3	30.9

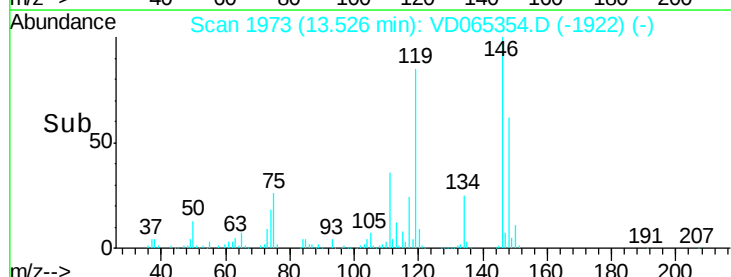
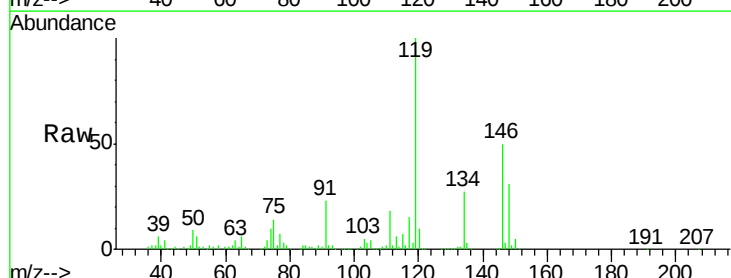
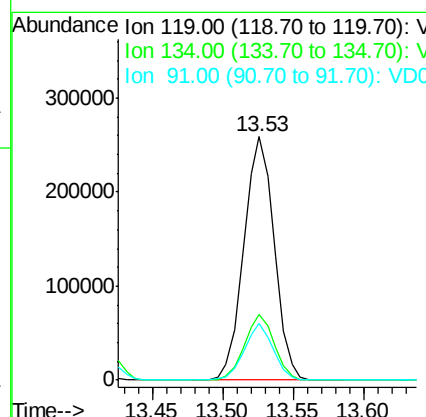
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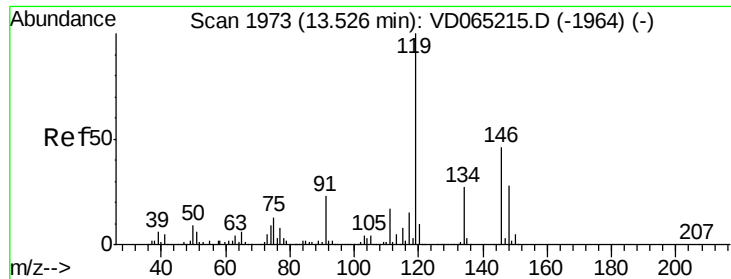
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#86
 p-Isopropyltoluene
 Concen: 21.583 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.3	39.8
91	21.7	11.1	33.1





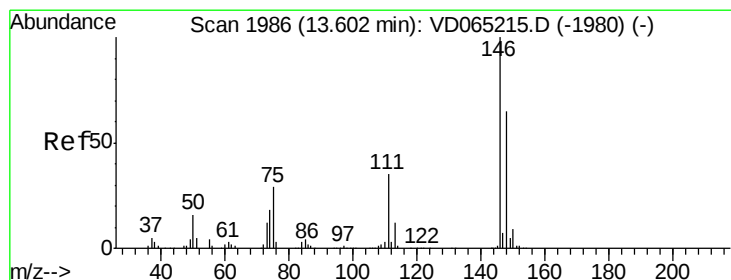
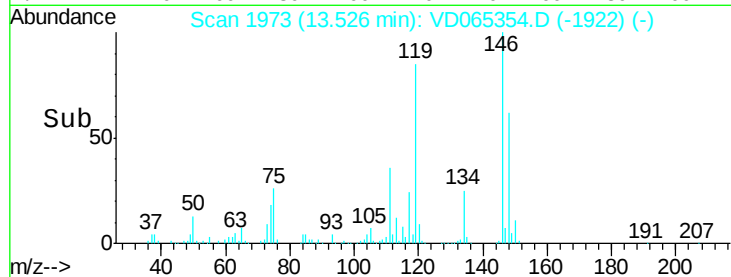
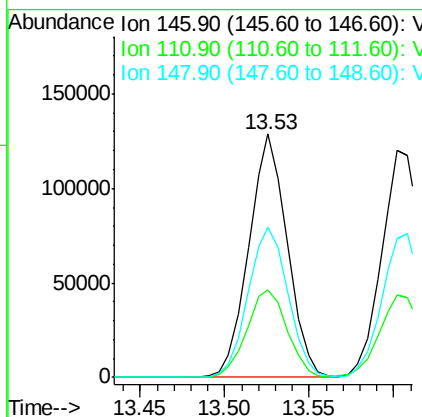
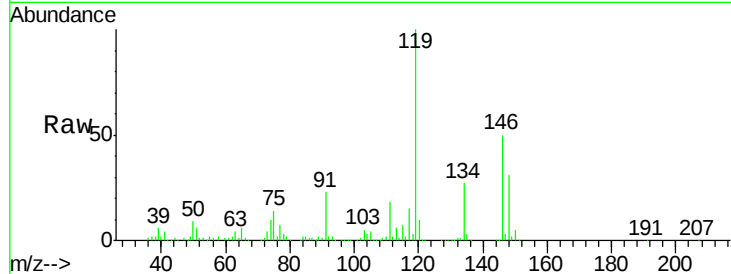
#87
 1,3-Dichlorobenzene
 Concen: 21.305 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	202556		
111	37.9	18.6	55.8	
148	64.3	31.4	94.3	

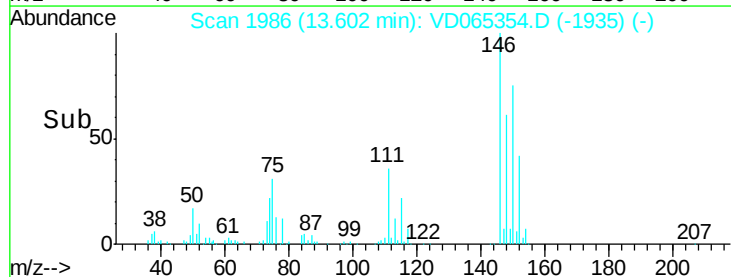
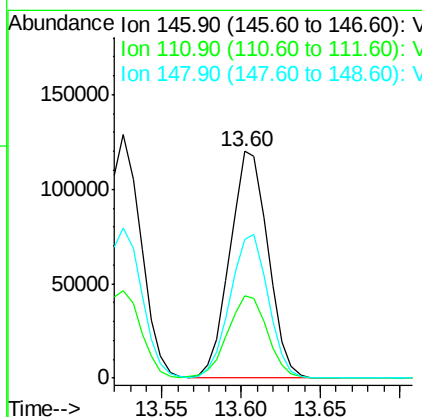
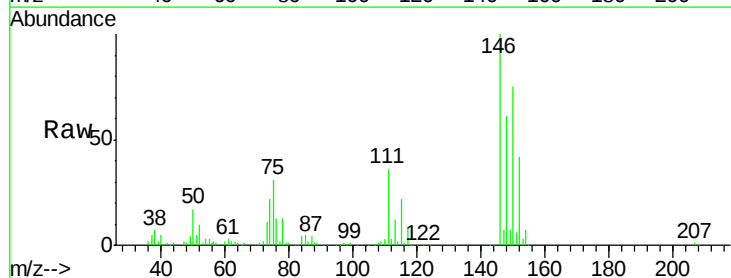
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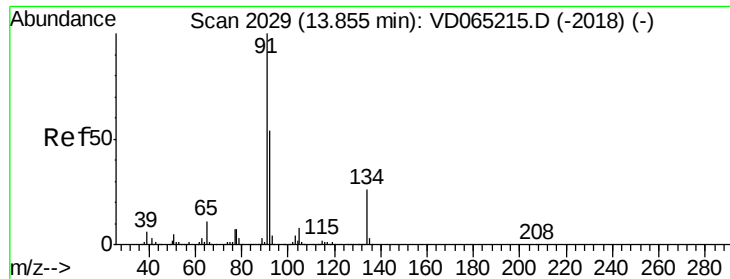
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#88
 1,4-Dichlorobenzene
 Concen: 21.432 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	201104		
111	37.7	18.4	55.2	
148	63.2	32.1	96.5	





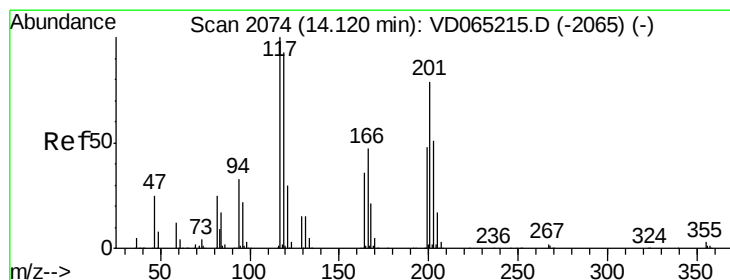
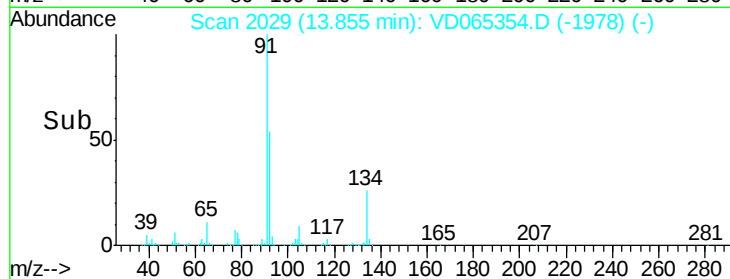
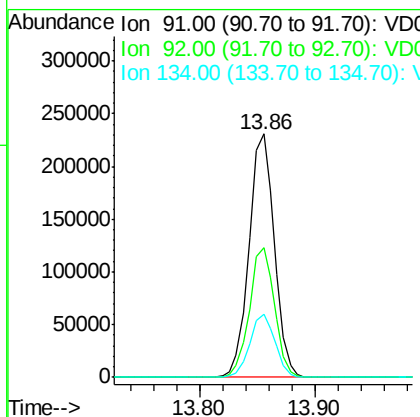
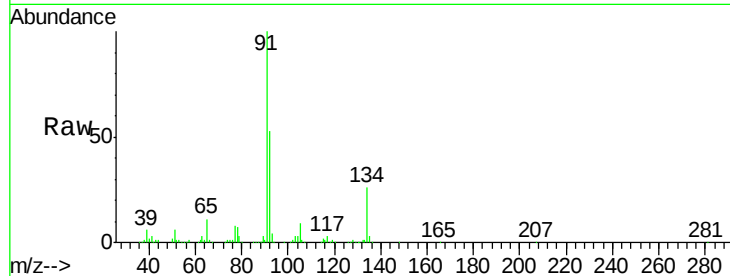
#89
n-Butylbenzene
Concen: 21.207 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.9	27.0	80.8	
134	25.8	13.5	40.4	

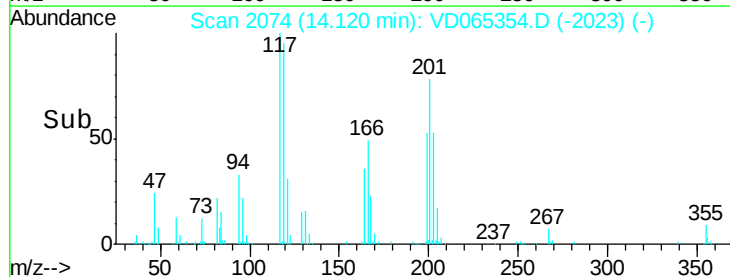
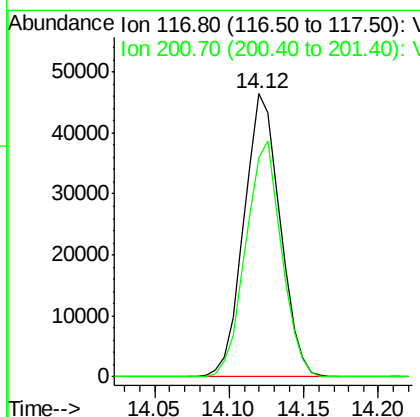
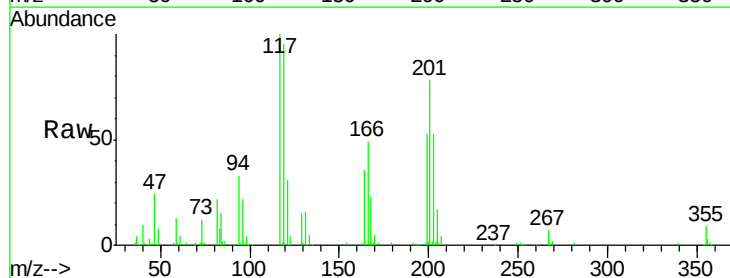
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#90
Hexachloroethane
Concen: 21.289 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	81.9	41.3	124.1	





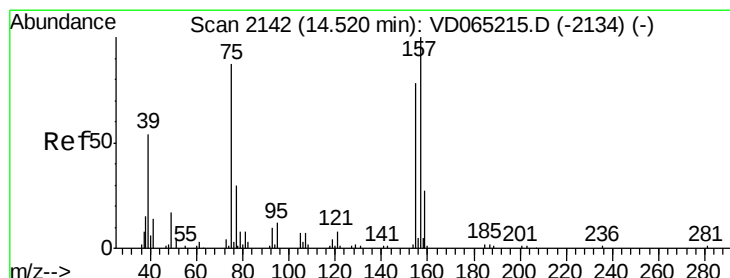
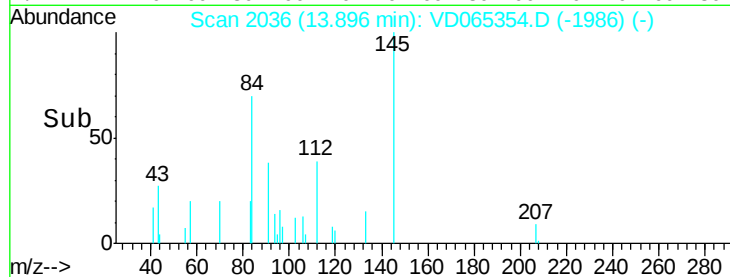
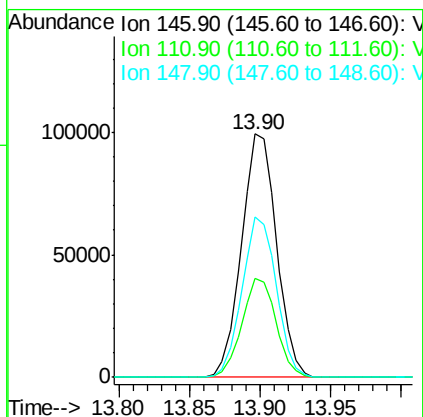
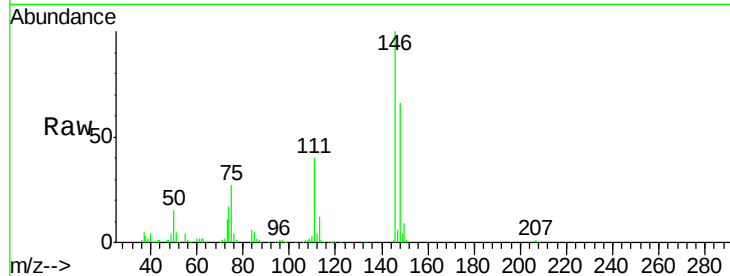
#91
 1,2-Dichlorobenzene
 Concen: 21.172 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBSD01

Tot Ion:	146	Resp:	172839
Ion Ratio	Lower	Upper	
146	100		
111	39.5	19.7	59.0
148	64.6	32.0	96.2

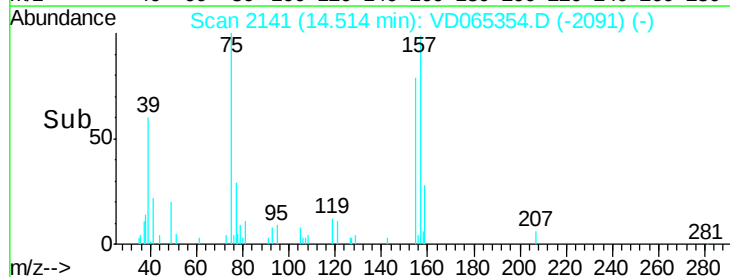
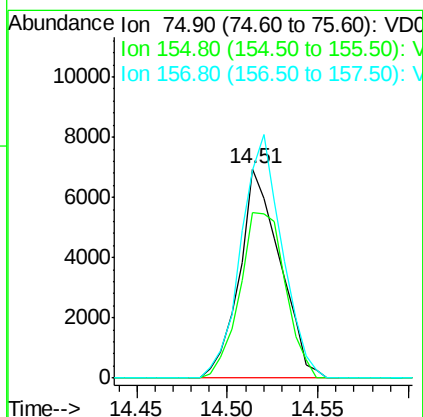
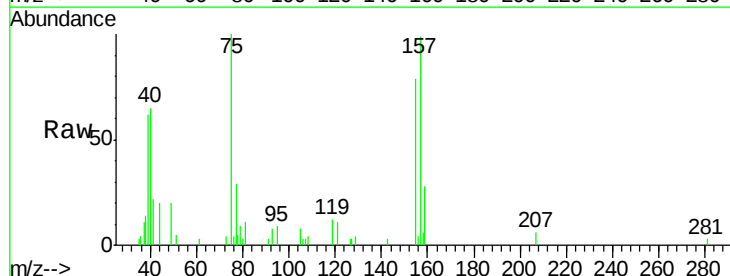
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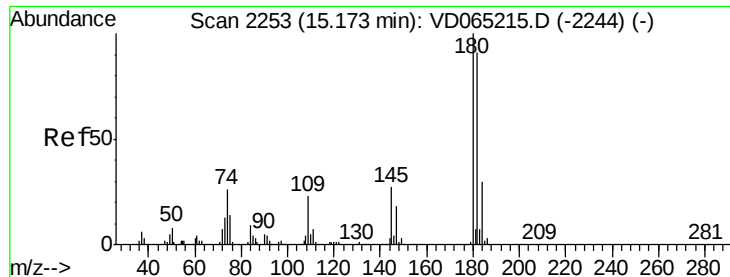
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.628 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion:	75	Resp:	10812
Ion Ratio	Lower	Upper	
75	100		
155	88.3	42.3	126.9
157	117.4	56.7	170.1





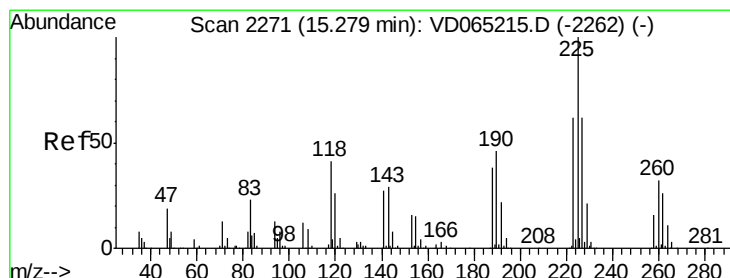
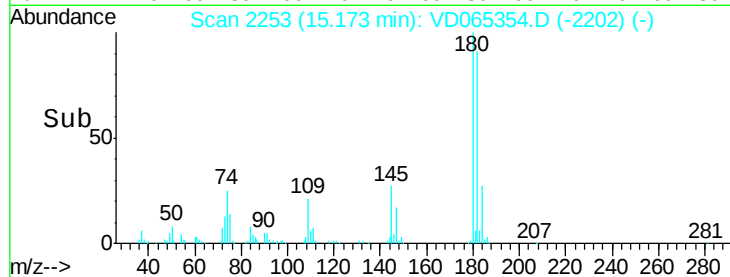
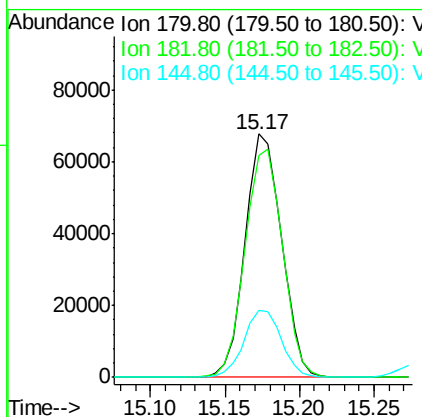
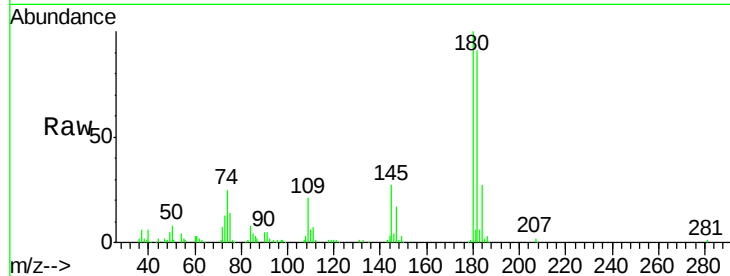
#93
 1,2,4-Trichlorobenzene
 Concen: 21.527 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0228SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	114953		
182	95.9	46.9	140.6	
145	28.3	13.9	41.7	

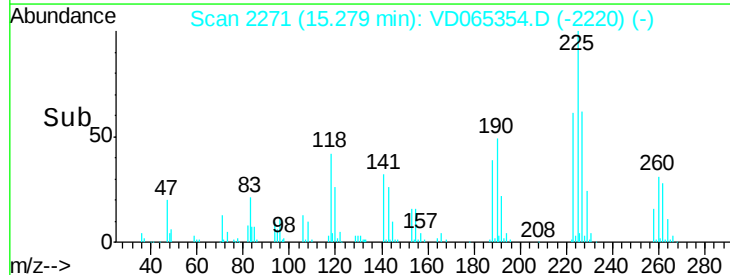
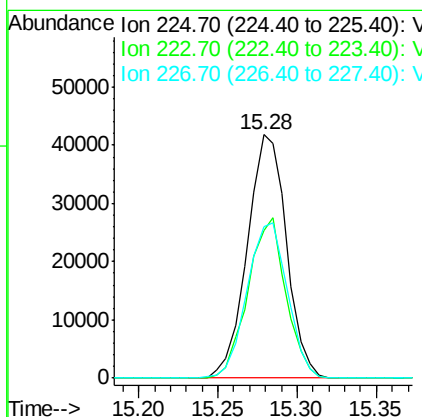
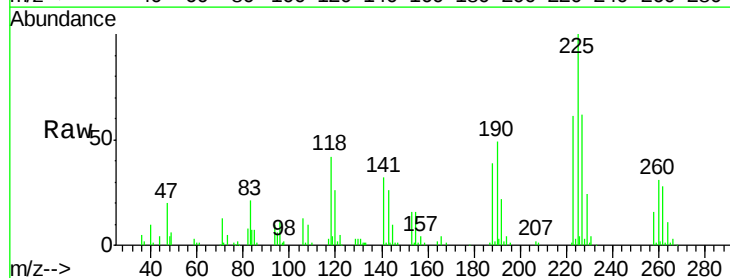
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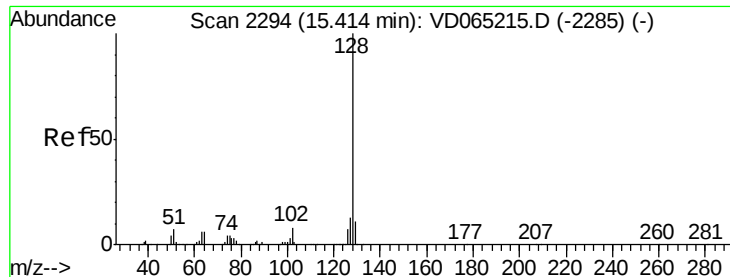
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#94
 Hexachlorobutadiene
 Concen: 20.973 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065354.D
 Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	71842		
223	63.9	31.4	94.2	
227	65.8	31.7	95.1	





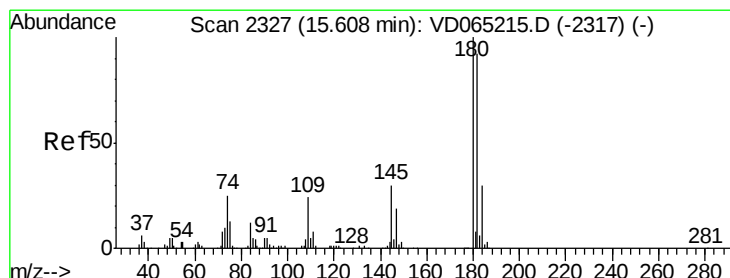
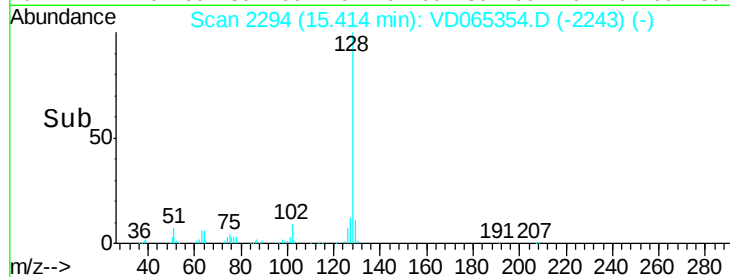
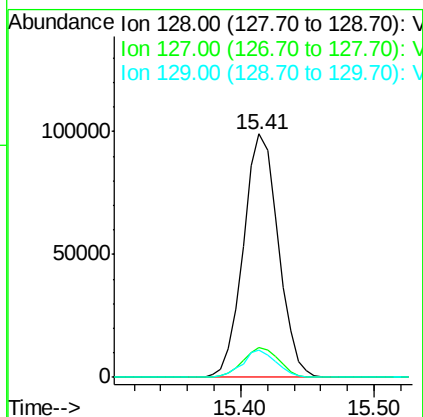
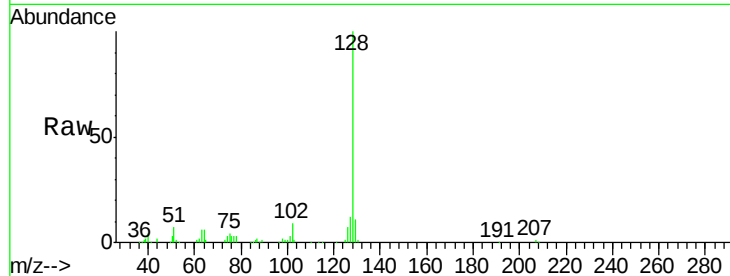
#95
Naphthalene
Concen: 20.558 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Instrument :
MSVOA_D
ClientSampleId :
VD0228SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	178466		
127	12.6		10.3	15.5
129	10.9		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 22.064 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065354.D
Acq: 28 Feb 2020 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	102901		
182	91.7		46.9	140.6
145	30.4		15.4	46.1

