

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031320\
 Data File : VD065501.D
 Acq On : 13 Mar 2020 12:37
 Operator : VA/SY
 Sample : VD0313SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Manual Integrations
 APPROVED

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 3/16/2020 2:05:28 PM

Quant Time: Mar 16 02:22:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	456770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	663816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	618389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	310997	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	196388	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
35) Dibromofluoromethane	7.92	113	211187	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
50) Toluene-d8	10.34	98	809740	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.64	95	260597	53.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	84904	21.628	ug/l	99
3) Chloromethane	2.21	50	98195	20.719	ug/l	99
4) Vinyl Chloride	2.35	62	99875	21.365	ug/l	97
5) Bromomethane	2.76	94	63986	21.721	ug/l	96
6) Chloroethane	2.92	64	62321	21.767	ug/l	97
7) Trichlorofluoromethane	3.27	101	148844	21.609	ug/l	100
8) Diethyl Ether	3.70	74	43874	21.418	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	96422	21.735	ug/l	99
10) Methyl Iodide	4.30	142	94223	20.444	ug/l	99
11) Tert butyl alcohol	5.25	59	20291	90.285	ug/l	97
12) 1,1-Dichloroethene	4.06	96	87650	20.633	ug/l	94
13) Acrolein	3.92	56	29828	76.956	ug/l	96
14) Allyl chloride	4.71	41	132541	20.311	ug/l	99
15) Acrylonitrile	5.43	53	92458	103.751	ug/l	99
16) Acetone	4.17	43	78373	98.904	ug/l	93
17) Carbon Disulfide	4.40	76	286855	20.277	ug/l	99
18) Methyl Acetate	4.72	43	43966	21.873	ug/l	96
19) Methyl tert-butyl Ether	5.49	73	173630	21.254	ug/l	98
20) Methylene Chloride	4.96	84	106282	22.820	ug/l	97
21) trans-1,2-Dichloroethene	5.47	96	100651	21.299	ug/l	93
22) Diisopropyl ether	6.37	45	274832	22.655	ug/l	98
23) Vinyl Acetate	6.31	43	716130	106.319	ug/l	100
24) 1,1-Dichloroethane	6.27	63	170505	21.913	ug/l	97
25) 2-Butanone	7.22	43	109403	101.171	ug/l	97
26) 2,2-Dichloropropane	7.21	77	145594	21.412	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	105294	21.799	ug/l	99
28) Bromochloromethane	7.55	49	68908	22.135	ug/l	99
29) Tetrahydrofuran	7.57	42	70097	101.506	ug/l	98
30) Chloroform	7.71	83	175131	22.519	ug/l	92
31) Cyclohexane	7.98	56	157450	20.237	ug/l	96
32) 1,1,1-Trichloroethane	7.91	97	155739	21.669	ug/l	99
36) 1,1-Dichloropropene	8.11	75	135564	21.305	ug/l	99
37) Ethyl Acetate	7.30	43	52786	21.463	ug/l	97
38) Carbon Tetrachloride	8.10	117	145231	22.010	ug/l	100

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Manual Integrations
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Quant Time: Mar 16 02:22:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	154453	20.097	ug/l	96
40) Benzene	8.36	78	392718	22.074	ug/l	99
41) Methacrylonitrile	7.54	41	27449	21.104	ug/l #	85
42) 1,2-Dichloroethane	8.43	62	105626	22.736	ug/l	99
43) Isopropyl Acetate	8.46	43	95877	21.113	ug/l	99
44) Trichloroethene	9.11	130	109824	21.859	ug/l	99
45) 1,2-Dichloropropane	9.40	63	98176	22.781	ug/l	92
46) Dibromomethane	9.48	93	49617	22.196	ug/l	94
47) Bromodichloromethane	9.67	83	132149	22.724	ug/l	94
48) Methyl methacrylate	9.46	41	44193	20.688	ug/l	97
49) 1,4-Dioxane	9.47	88	11508	450.066	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	257198	112.548	ug/l	99
52) Toluene	10.41	92	250061	22.311	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	117192	21.564	ug/l	100
54) cis-1,3-Dichloropropene	10.10	75	144809	22.013	ug/l	97
55) 1,1,2-Trichloroethane	10.81	97	71728	22.655	ug/l	97
56) Ethyl methacrylate	10.67	69	75798	21.236	ug/l	99
57) 1,3-Dichloropropane	10.95	76	119780	22.360	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.95	63	112543	102.187	ug/l	99
59) 2-Hexanone	10.99	43	166627	105.332	ug/l	96
60) Dibromochloromethane	11.14	129	92781	22.862	ug/l	100
61) 1,2-Dibromoethane	11.25	107	68957	22.834	ug/l	96
64) Tetrachloroethene	10.88	164	95352	21.519	ug/l	96
65) Chlorobenzene	11.67	112	264207	21.590	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.75	131	100908	22.641	ug/l	98
67) Ethyl Benzene	11.75	91	448475	21.210	ug/l	99
68) m/p-Xylenes	11.86	106	361008	44.279	ug/l	100
69) o-Xylene	12.18	106	153184	21.359	ug/l	99
70) Styrene	12.20	104	280673	22.237	ug/l	99
71) Bromoform	12.37	173	54426	21.741	ug/l #	100
73) Isopropylbenzene	12.48	105	423405	20.699	ug/l	100
74) N-amyl acetate	12.30	43	82957	19.809	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	74330	20.672	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	49153m	20.030	ug/l	
77) Bromobenzene	12.77	156	110186	21.681	ug/l	99
78) n-propylbenzene	12.83	91	523941	21.587	ug/l	99
79) 2-Chlorotoluene	12.91	91	287958	21.052	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	359869	21.399	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	23867	20.524	ug/l	99
82) 4-Chlorotoluene	13.01	91	315479	21.948	ug/l	100
83) tert-Butylbenzene	13.23	119	292530	20.561	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	354661	21.395	ug/l	99
85) sec-Butylbenzene	13.41	105	422813	20.820	ug/l	99
86) p-Isopropyltoluene	13.53	119	392285	21.169	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	212314	21.729	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	206842	21.281	ug/l	97
89) n-Butylbenzene	13.86	91	348325	20.332	ug/l	99
90) Hexachloroethane	14.12	117	82073	21.506	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	181376	21.813	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	11285	20.608	ug/l	96

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MSVOA_D
ClientSampleId :
VD0313SBSD01

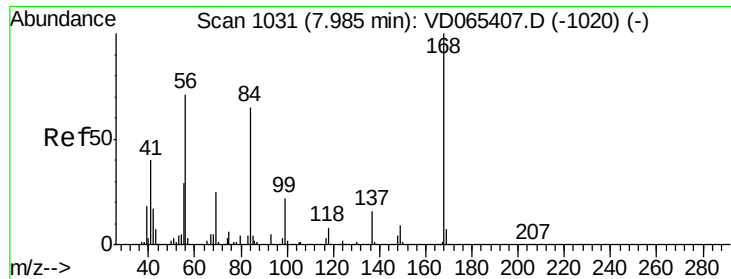
Manual Integrations
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3/16/2020 2:05:28 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 05 01:22:07 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	116525	20.676	ug/l	99
94) Hexachlorobutadiene	15.28	225	79602	21.497	ug/l	99
95) Naphthalene	15.41	128	177664	20.536	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	102959	21.142	ug/l	98

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



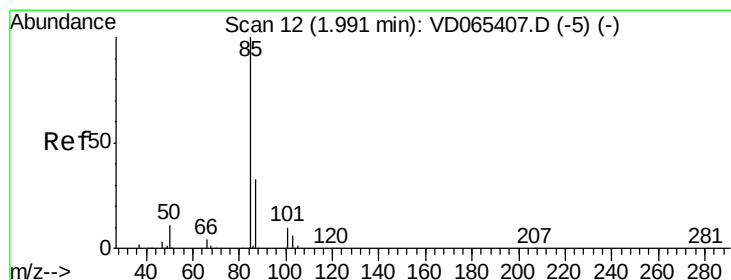
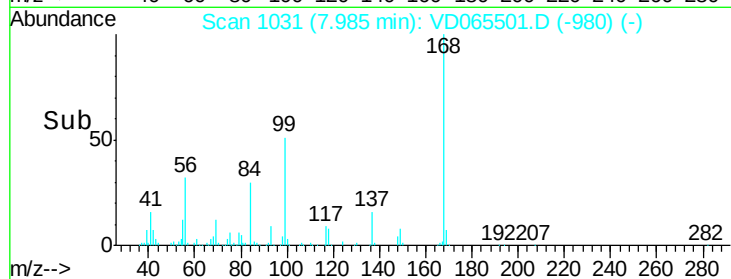
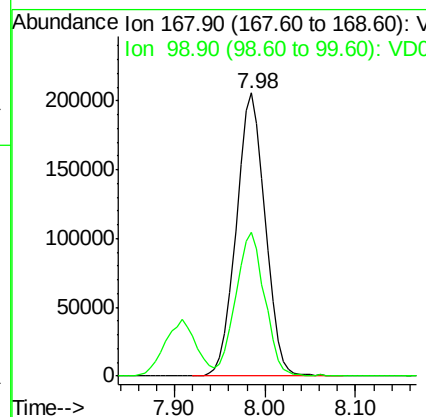
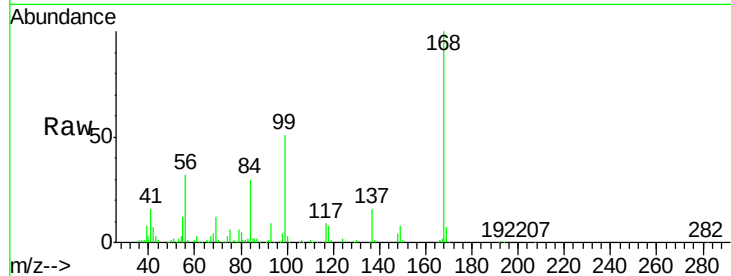
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
168	100		
99	50.8	41.5	62.3

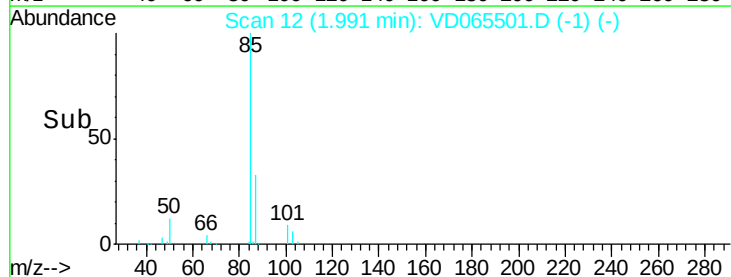
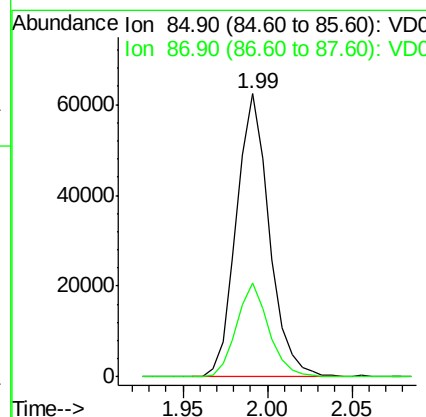
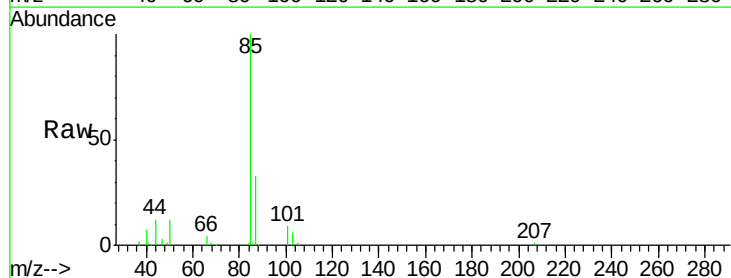
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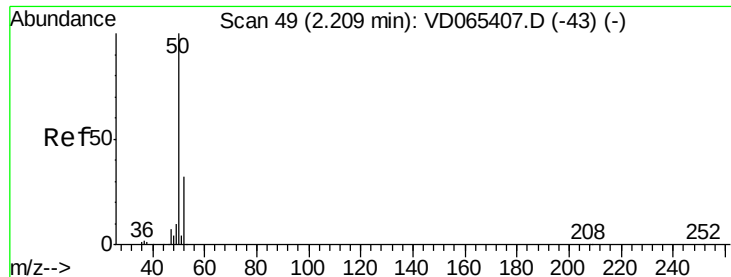
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#2
Dichlorodifluoromethane
Concen: 21.628 ug/l
RT: 1.99 min Scan# 12
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.4	49.1





#3

Chloromethane

Concen: 20.719 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 50 Resp: 98195

Ion Ratio Lower Upper

50 100

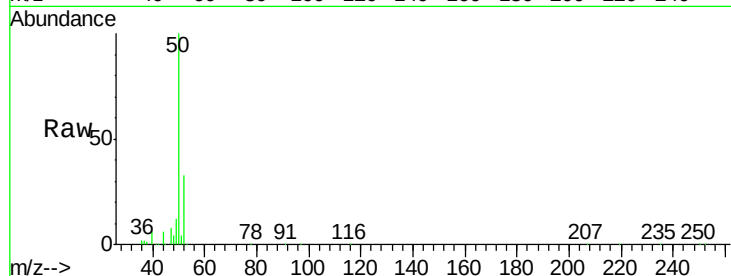
52 32.9 25.8 38.8

Manual Integrations

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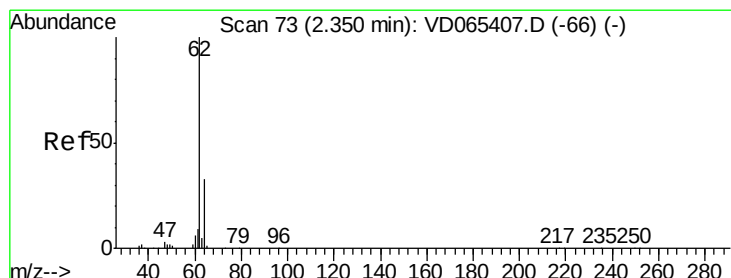
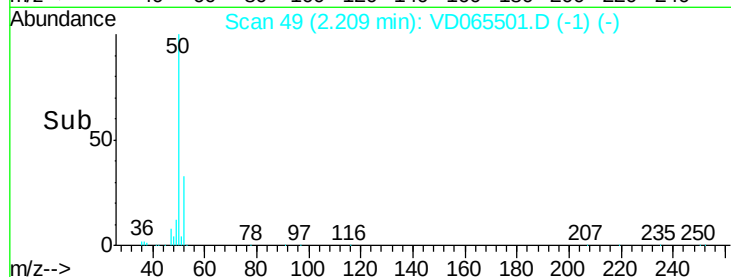
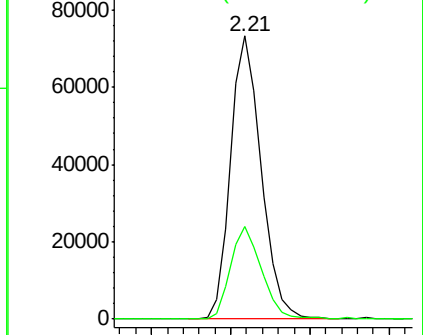
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.365 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065501.D

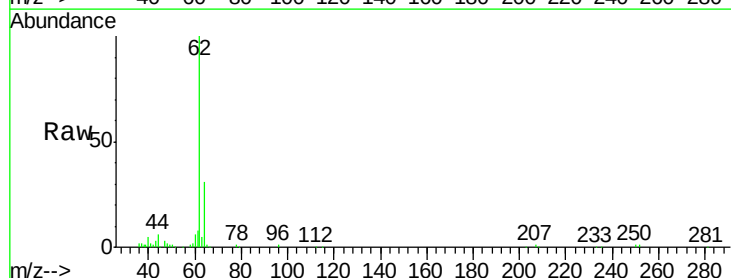
Acq: 13 Mar 2020 12:37

Tgt Ion: 62 Resp: 99875

Ion Ratio Lower Upper

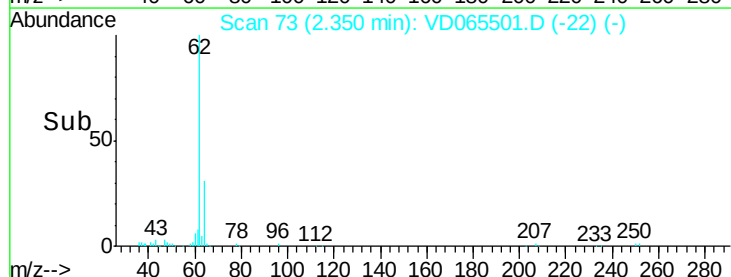
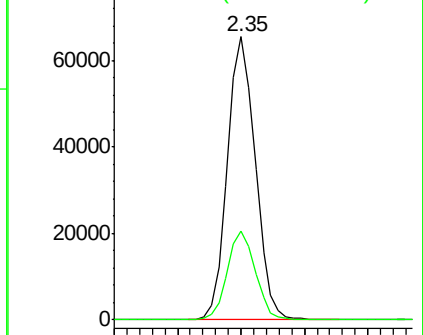
62 100

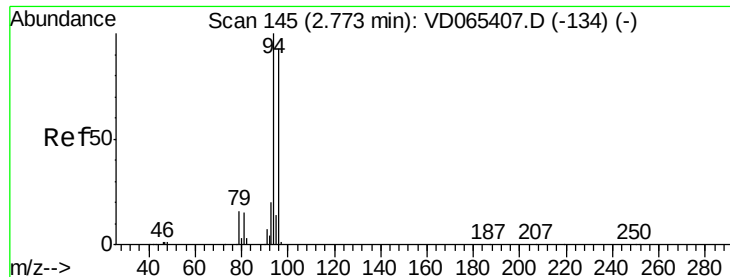
64 31.2 26.6 39.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 21.721 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 94 Resp: 63986

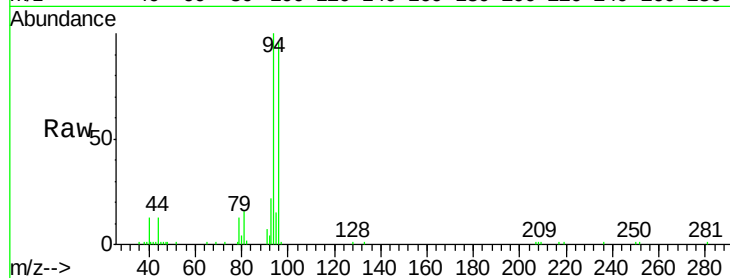
Ion Ratio Lower Upper

94 100

96 96.5 74.4 111.6

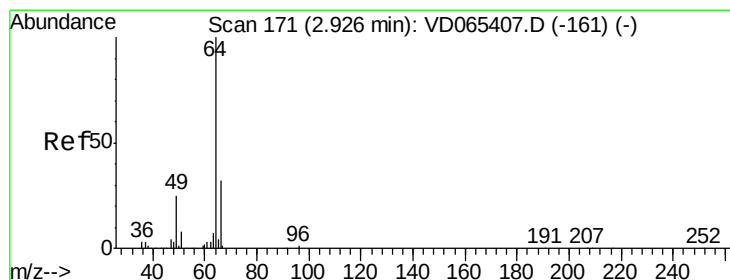
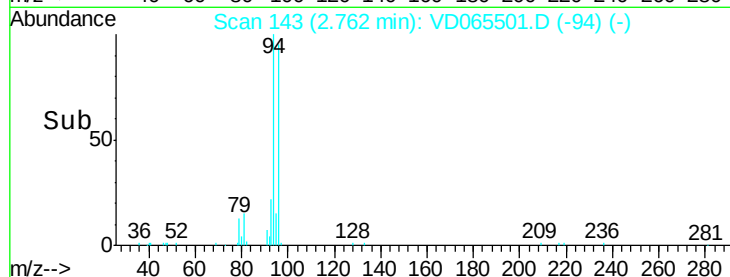
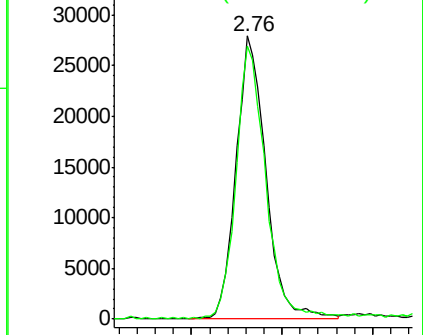
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.767 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065501.D

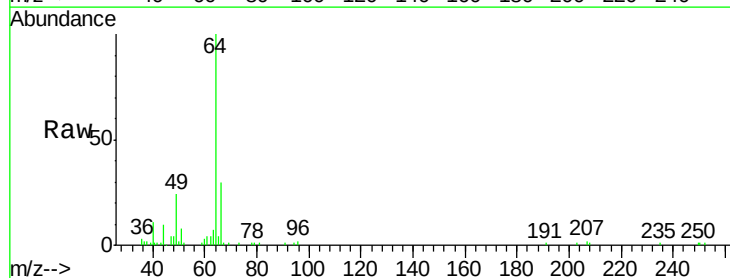
Acq: 13 Mar 2020 12:37

Tgt Ion: 64 Resp: 62321

Ion Ratio Lower Upper

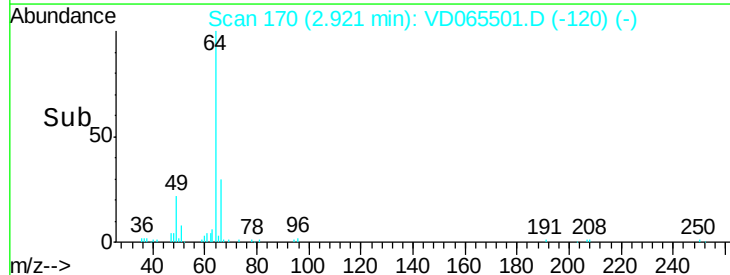
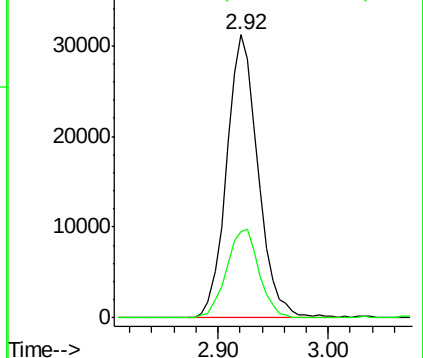
64 100

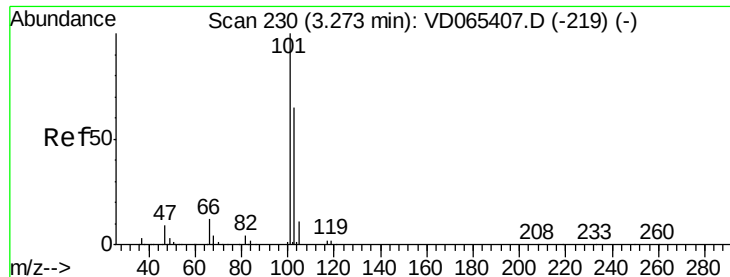
66 30.3 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

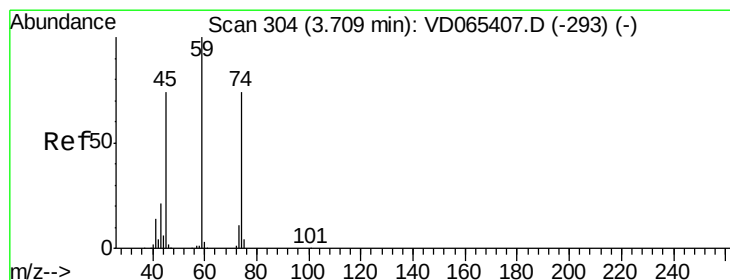
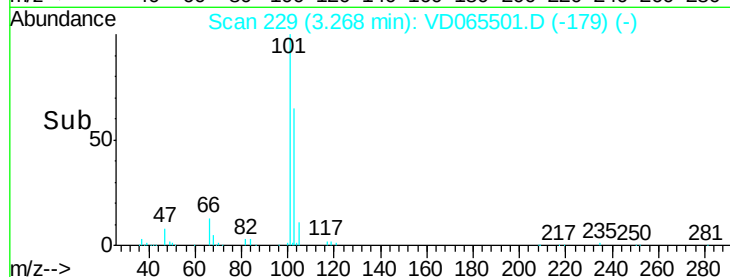
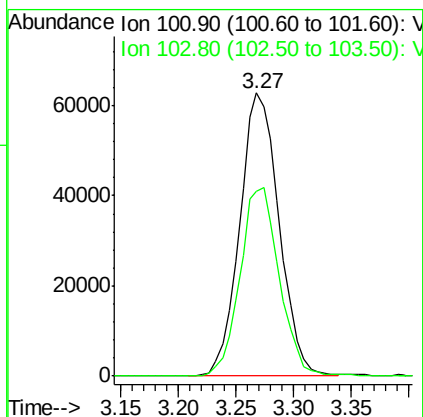
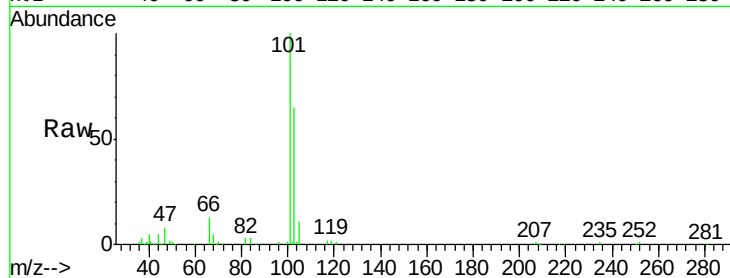
Trichlorofluoromethane
 Concen: 21.609 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.1	78.1

Manual Integrations
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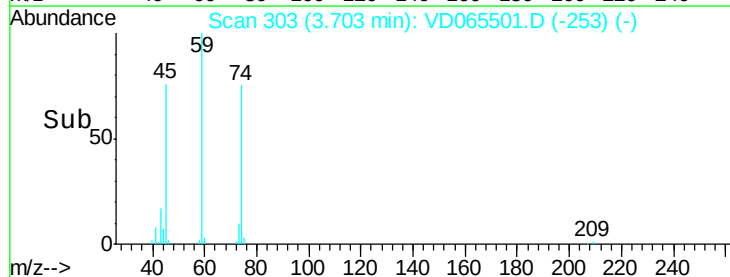
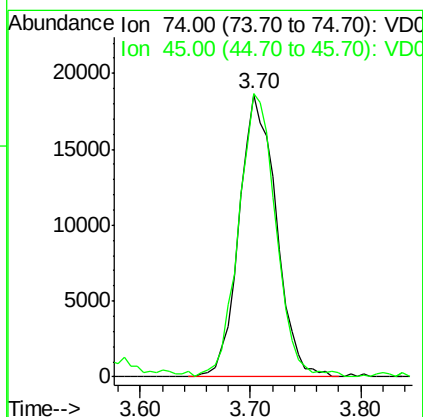
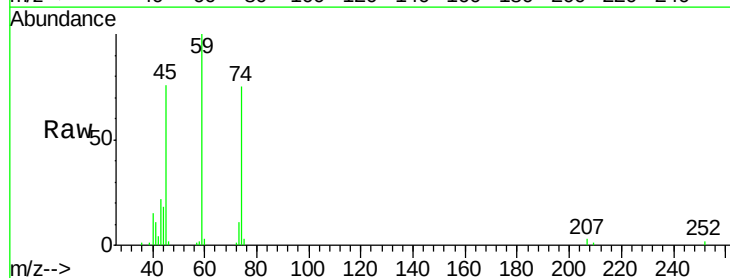
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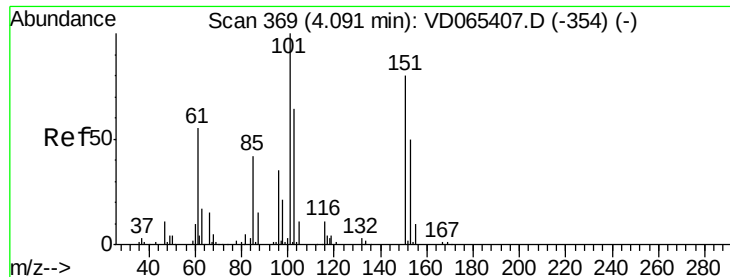


#8

Diethyl Ether
 Concen: 21.418 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.8	49.5	148.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.735 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

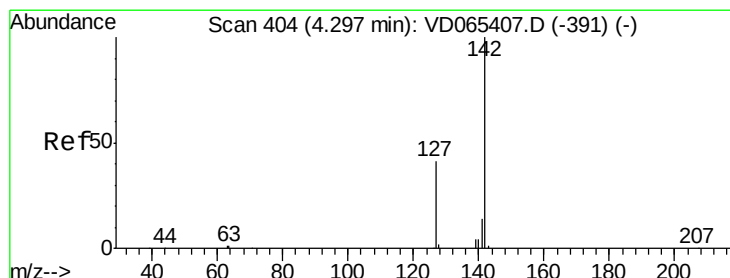
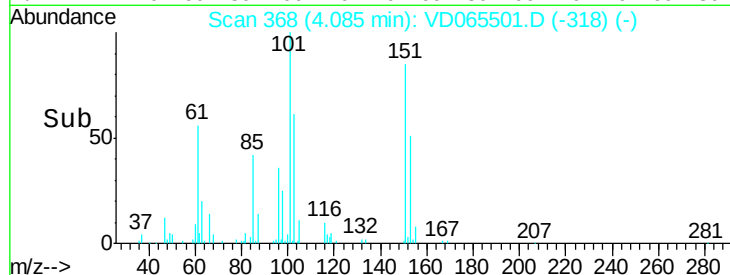
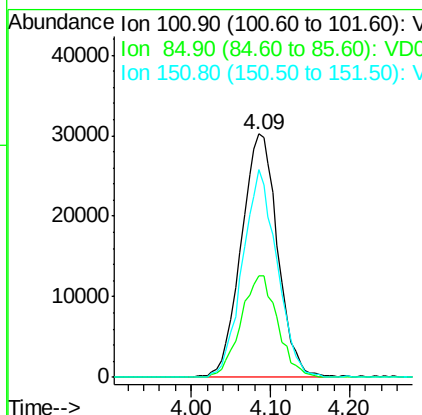
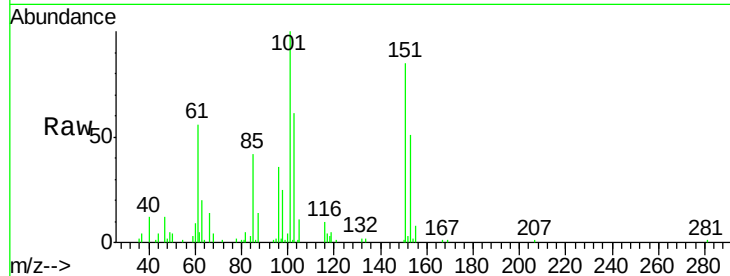
ClientSampleId :

VD0313SBS01

Tot Ion:	101	Resp:	96422
Ion Ratio	Lower	Upper	
101	100		
85	42.2	34.2	51.2
151	80.9	65.1	97.7

Manual Integrations
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#10

Methyl Iodide

Concen: 20.444 ug/l

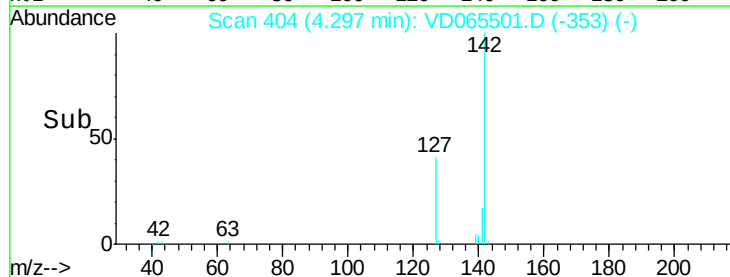
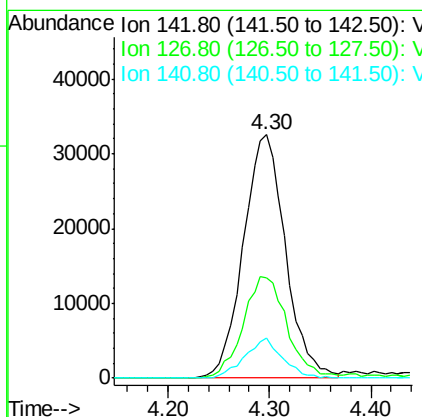
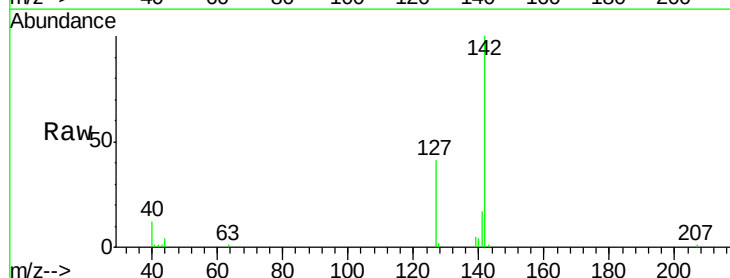
RT: 4.30 min Scan# 404

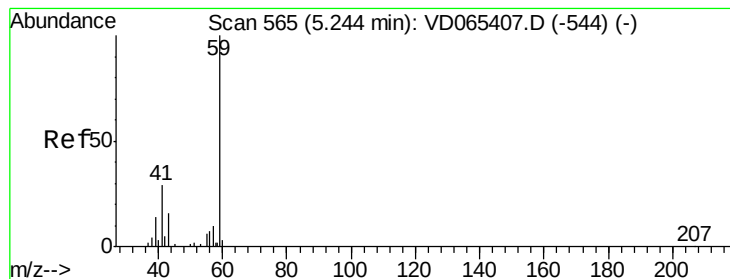
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	142	Resp:	94223
Ion Ratio	Lower	Upper	
142	100		
127	43.5	35.0	52.6
141	14.6	12.4	18.6





#11

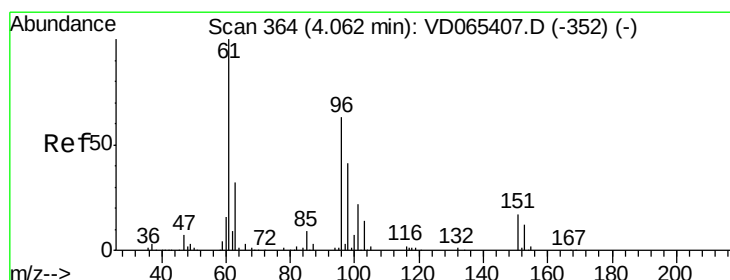
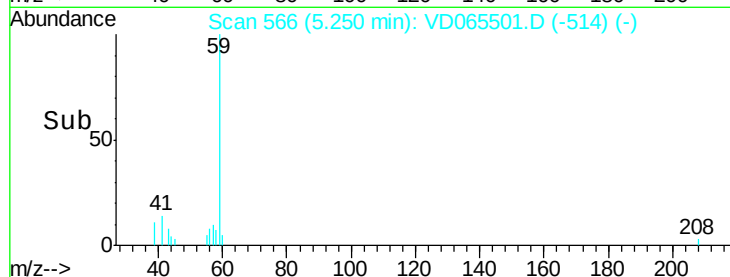
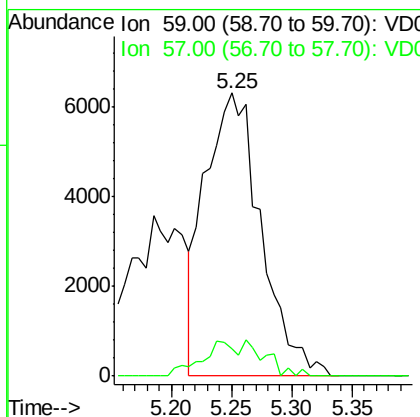
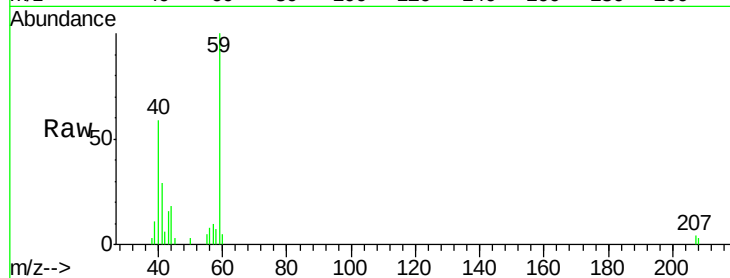
Tert butyl alcohol
Concen: 90.285 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.5	6.9	10.3

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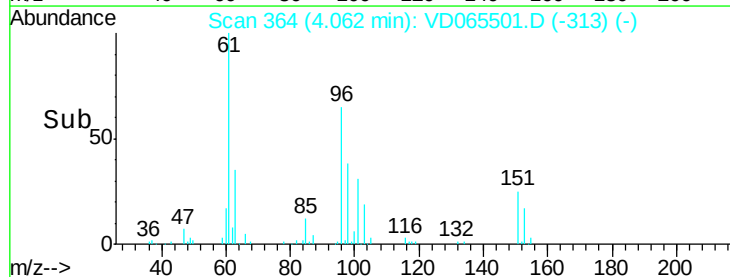
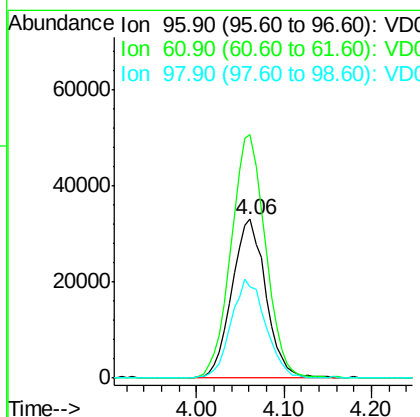
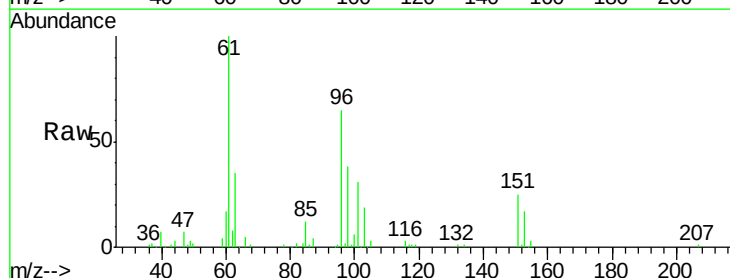
MMDadoda
3/16/2020 2:05:28 PM

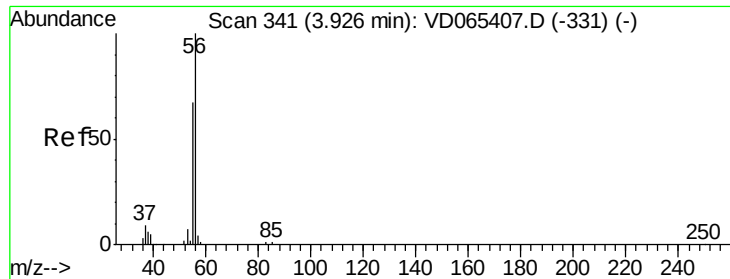


#12

1,1-Dichloroethene
Concen: 20.633 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.4	128.0	192.0
98	57.9	51.9	77.9





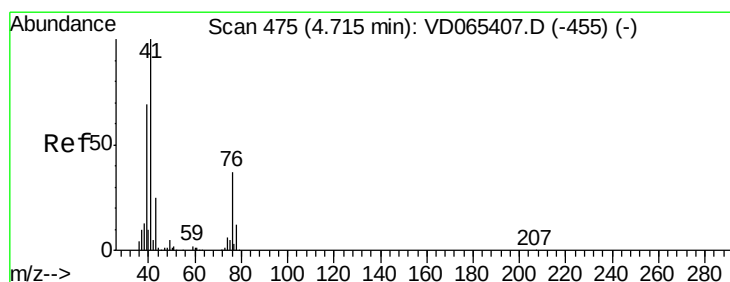
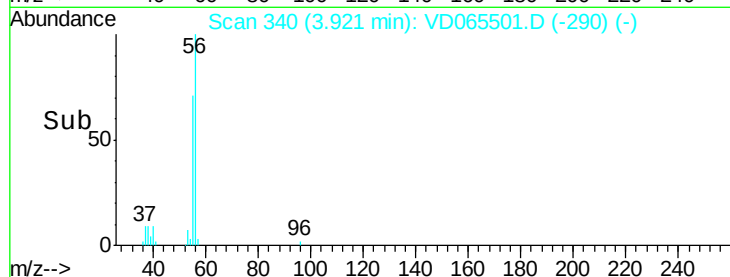
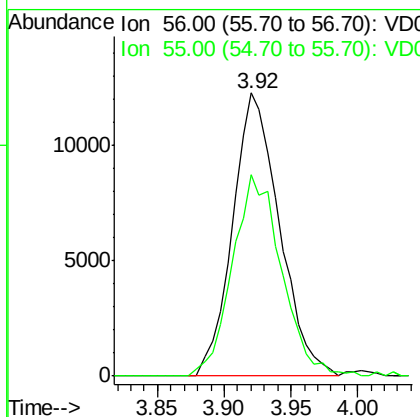
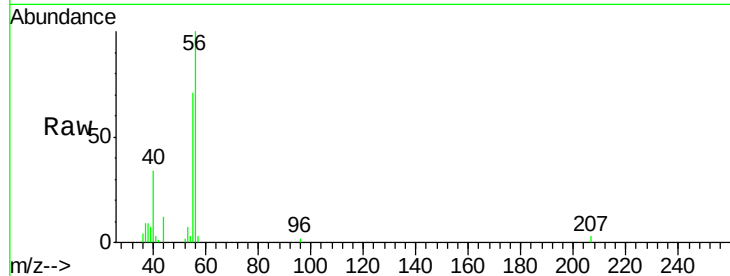
#13
Acrolein
Concen: 76.956 ug/l
RT: 3.92 min Scan# 340
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	74.5	56.6	85.0

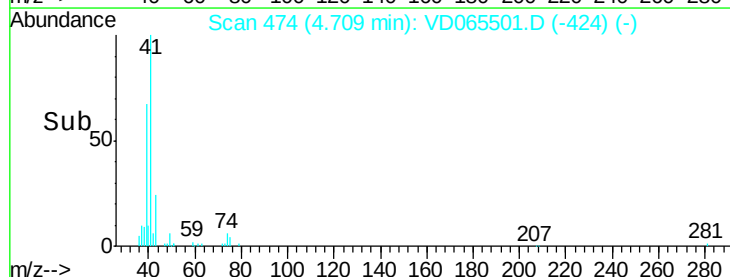
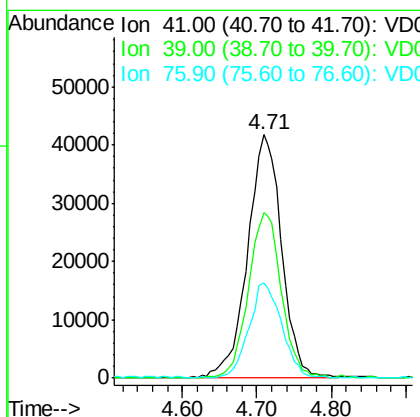
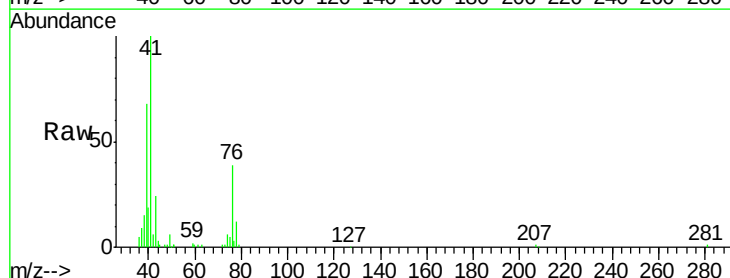
Manual Integrations
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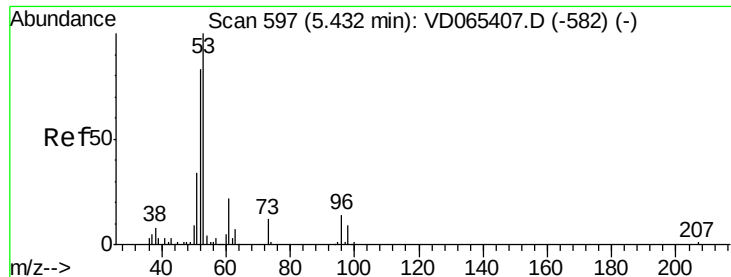
MMDadoda
3/16/2020 2:05:28 PM



#14
Allyl chloride
Concen: 20.311 ug/l
RT: 4.71 min Scan# 474
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
41	100		
39	65.8	52.6	79.0
76	37.6	29.2	43.8





#15

Acrylonitrile

Concen: 103.751 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

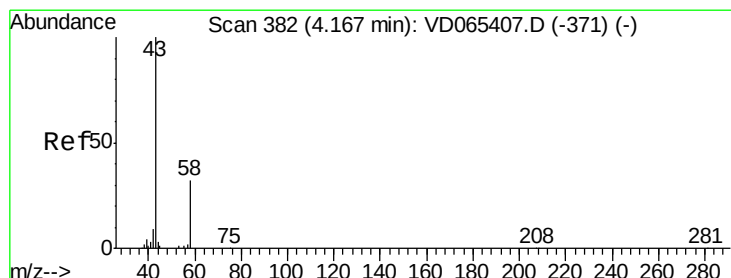
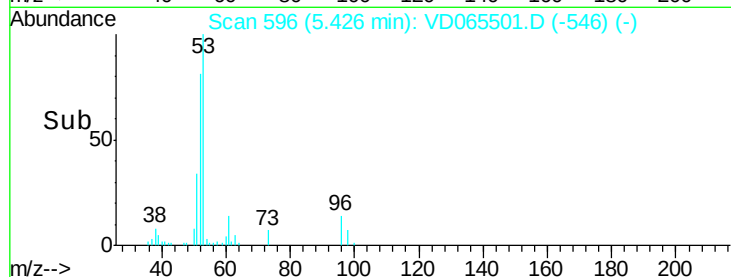
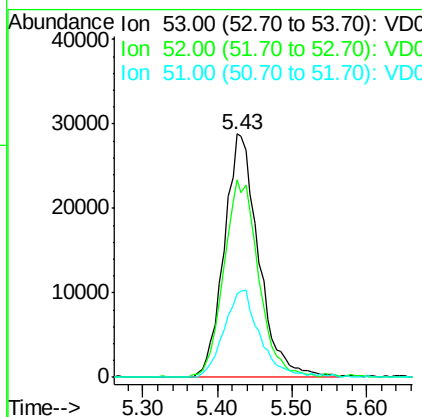
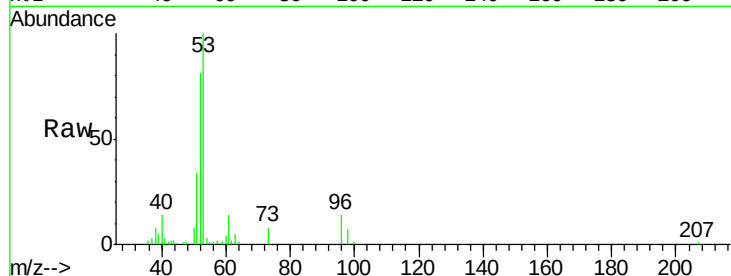
ClientSampleId :

VD0313SBS01

Tot Ion:	53	Resp:	92458
Ion Ratio	Lower	Upper	
53	100		
52	81.7	65.1	97.7
51	37.5	28.5	42.7

Manual Integrations
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#16

Acetone

Concen: 98.904 ug/l

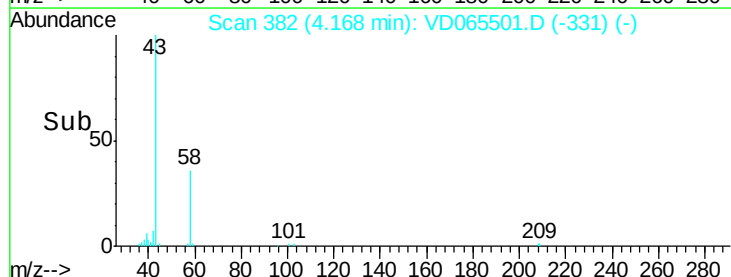
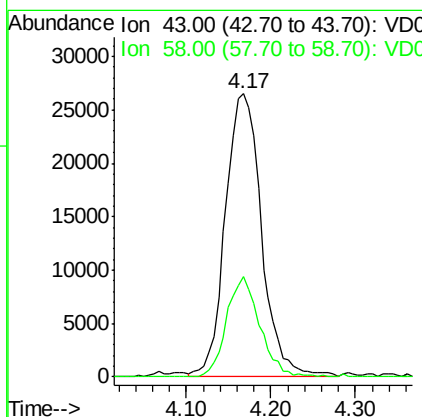
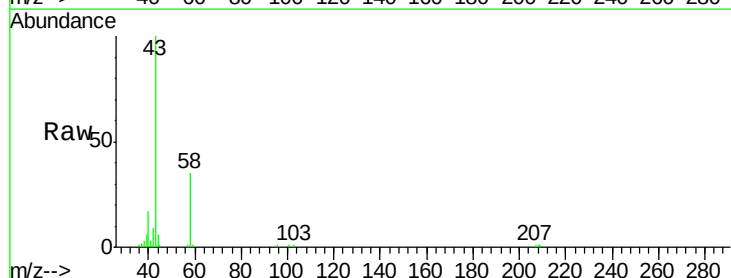
RT: 4.17 min Scan# 382

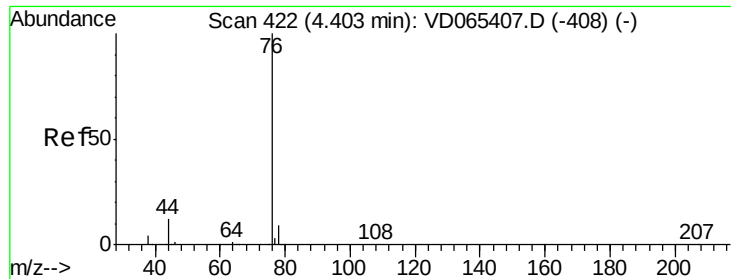
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	43	Resp:	78373
Ion Ratio	Lower	Upper	
43	100		
58	35.5	25.1	37.7





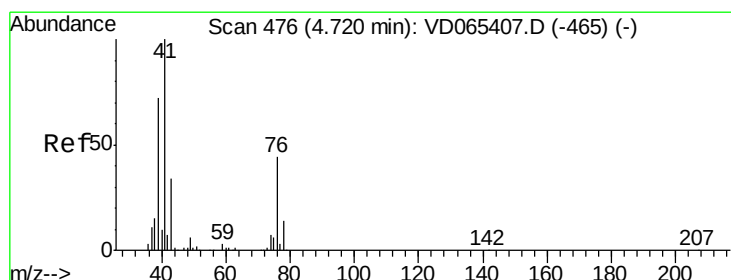
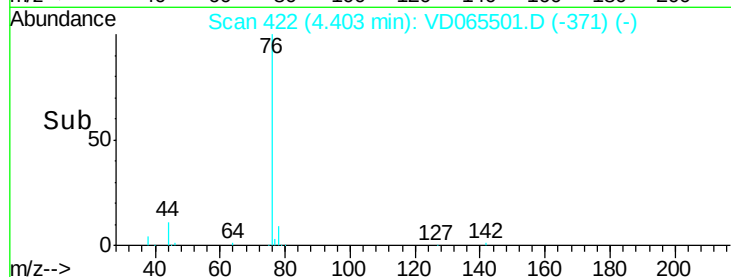
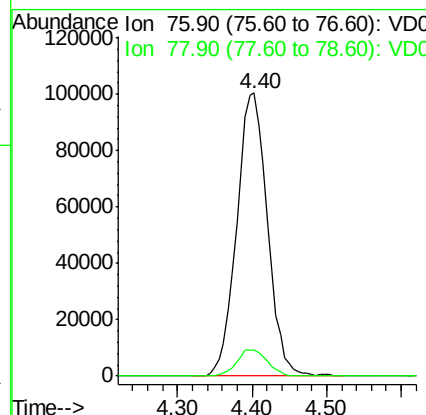
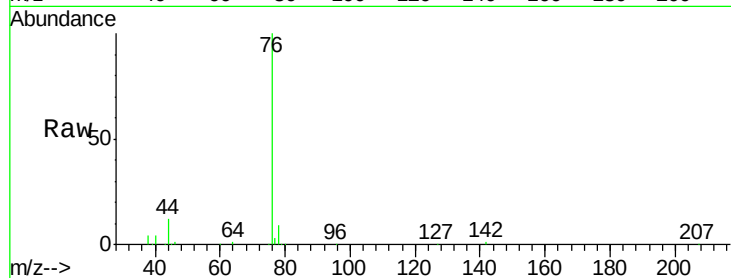
#17
Carbon Disulfide
Concen: 20.277 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
76	100	286855		
78	9.4		7.4	11.0

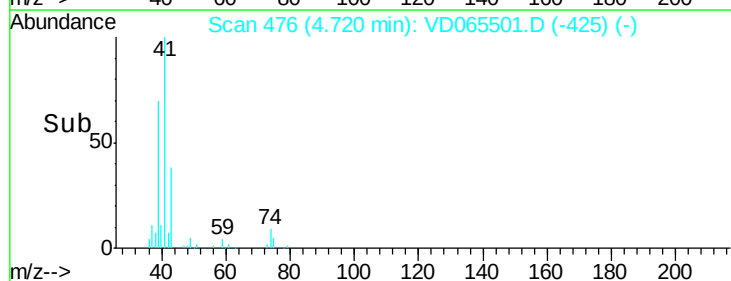
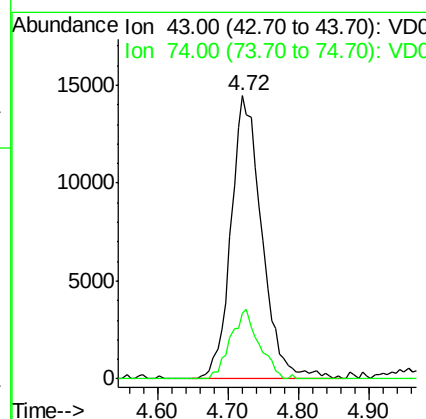
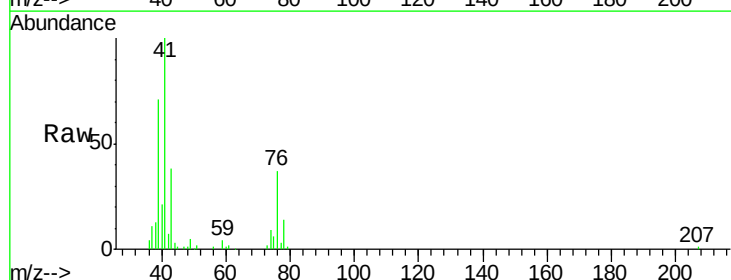
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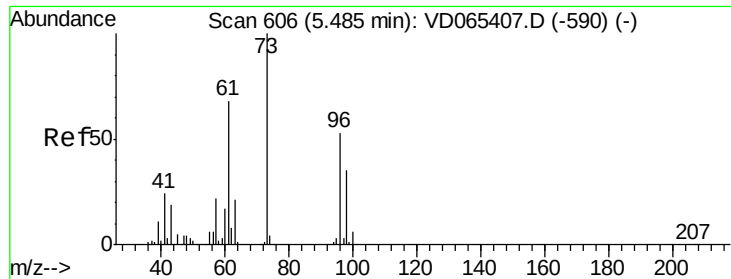
MMDadoda
3/16/2020 2:05:28 PM



#18
Methyl Acetate
Concen: 21.873 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	43966		
74	22.5		19.6	29.4





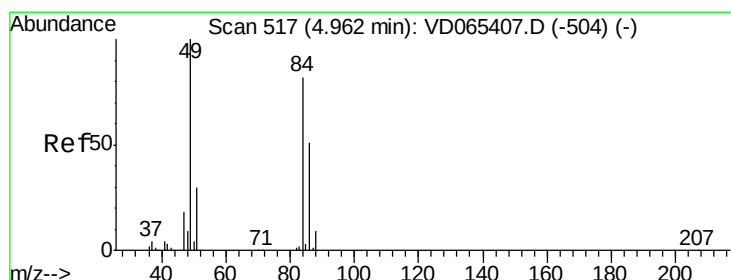
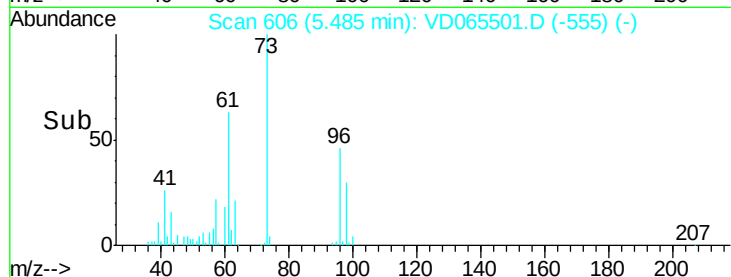
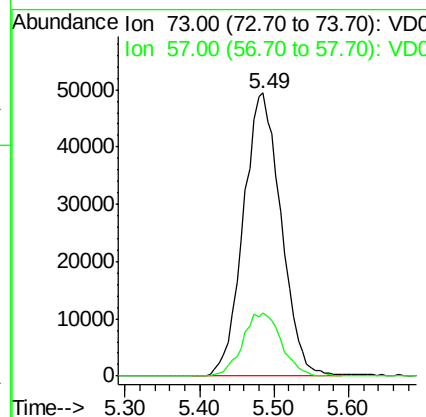
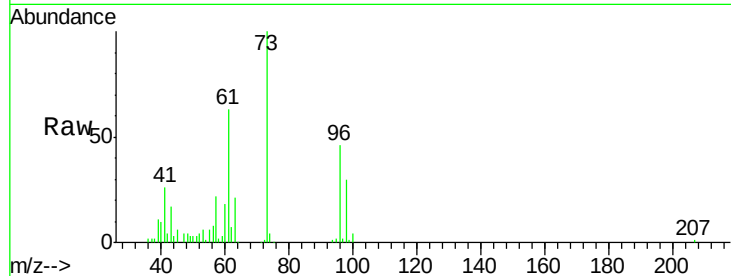
#19
Methyl tert-butyl Ether
Concen: 21.254 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion: 73 Resp: 173630
Ion Ratio Lower Upper
73 100
57 22.4 17.3 25.9

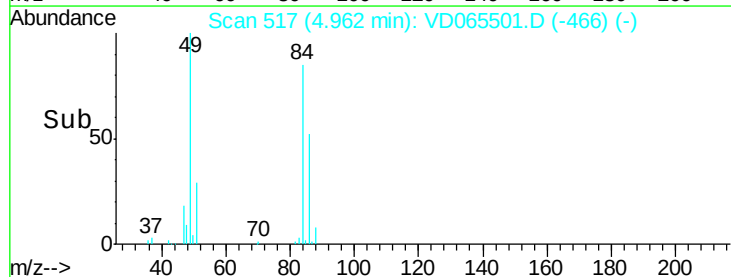
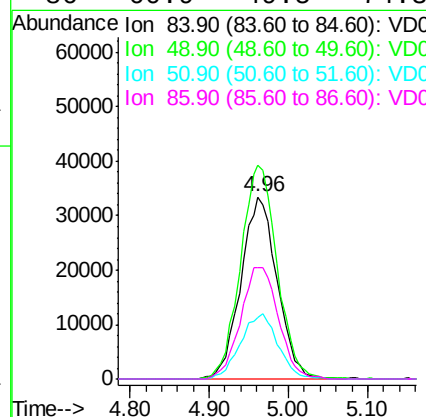
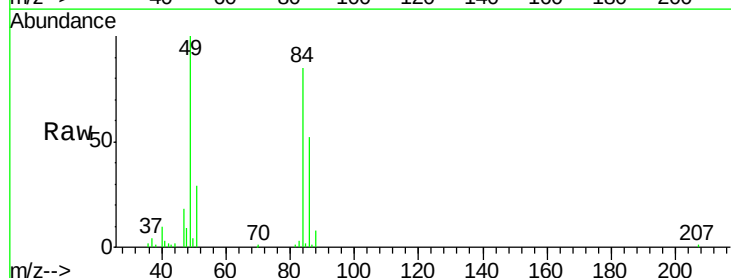
Manual Integrations
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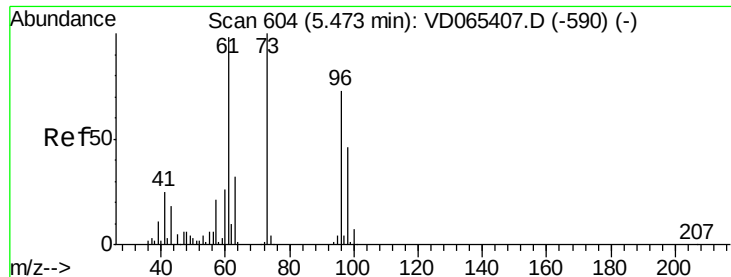
MMDadoda
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#20
Methylene Chloride
Concen: 22.820 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion: 84 Resp: 106282
Ion Ratio Lower Upper
84 100
49 117.2 97.7 146.5
51 34.0 28.8 43.2
86 60.9 49.5 74.3





#21

trans-1,2-Dichloroethene

Concen: 21.299 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

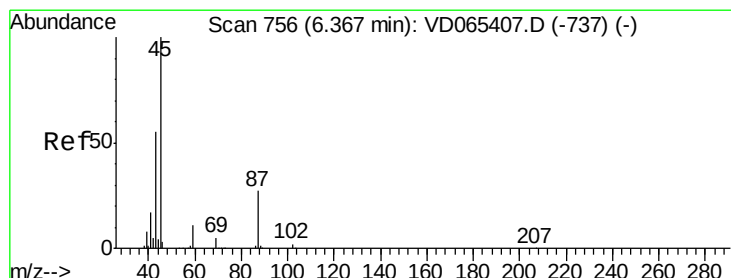
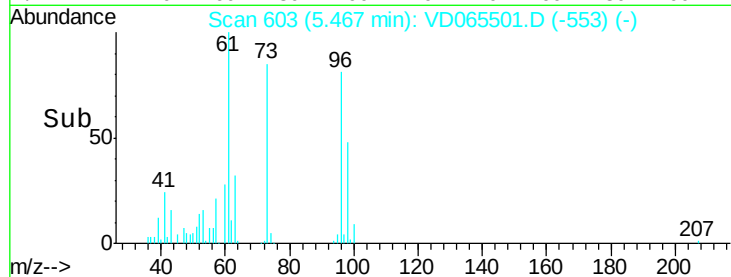
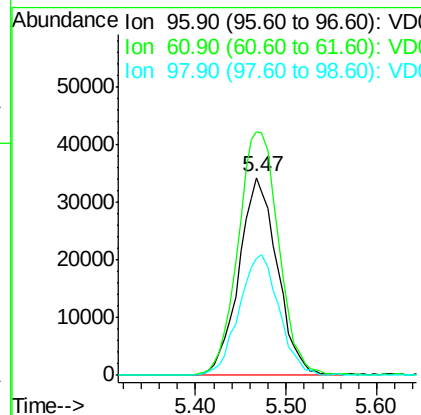
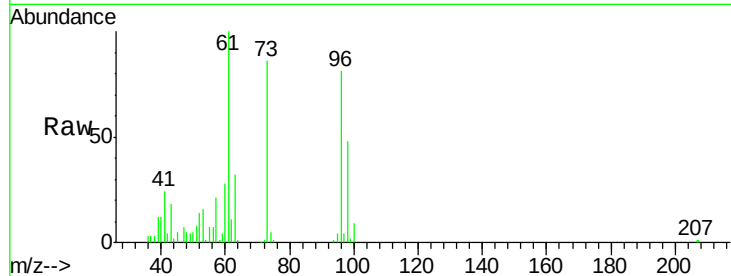
ClientSampleId :

VD0313SBS01

Tot Ion:	96	Resp:	100651
Ion	Ratio	Lower	Upper
96	100		
61	123.2	106.3	159.5
98	59.4	50.2	75.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.655 ug/l

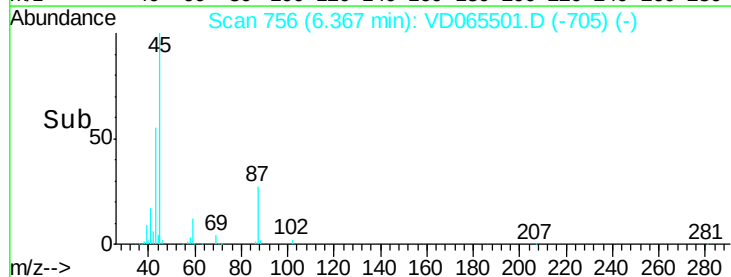
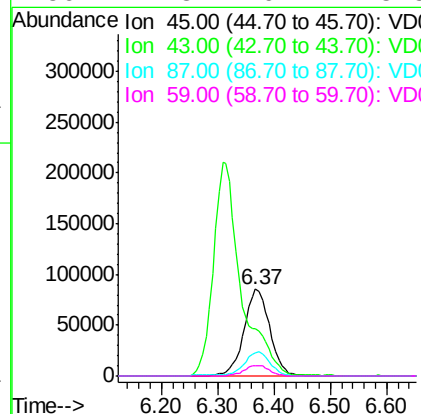
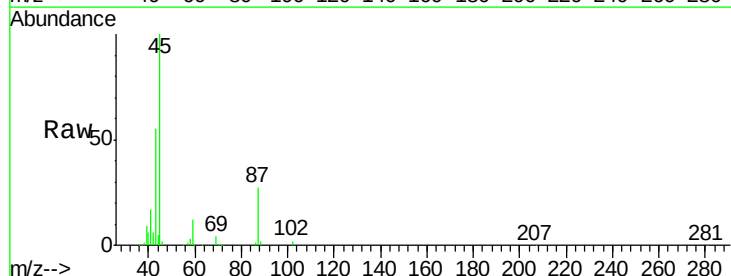
RT: 6.37 min Scan# 756

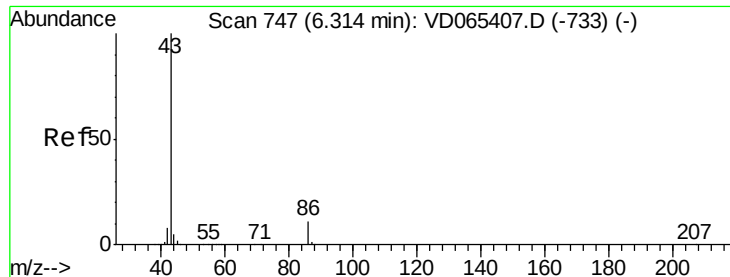
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	45	Resp:	274832
Ion	Ratio	Lower	Upper
45	100		
43	54.1	44.4	66.6
87	26.7	21.9	32.9
59	12.3	9.2	13.8





#23

Vinyl Acetate

Concen: 106.319 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 43 Resp: 716130

Ion Ratio Lower Upper

43 100

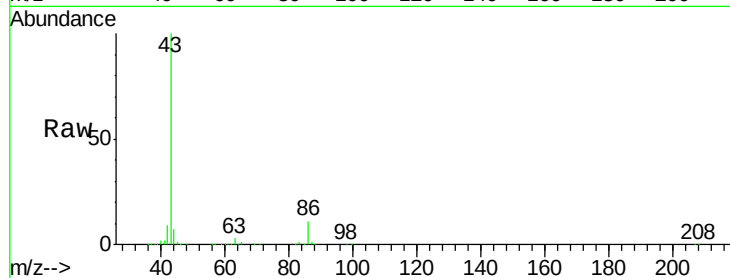
86 11.1 8.9 13.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

250000

200000

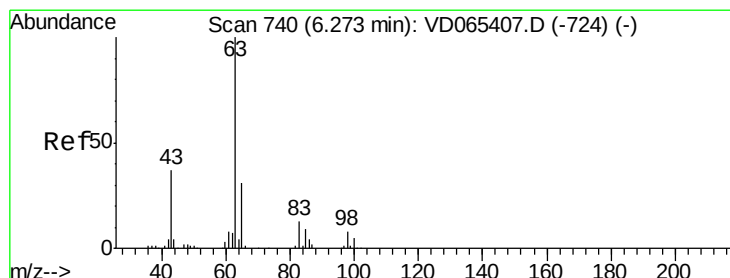
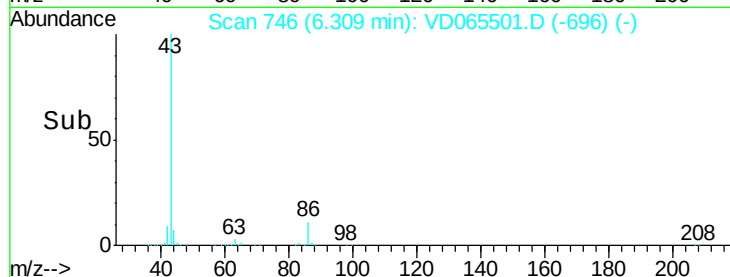
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.913 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

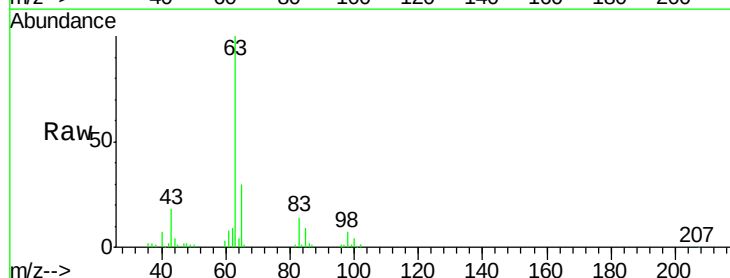
Tgt Ion: 63 Resp: 170505

Ion Ratio Lower Upper

63 100

98 7.0 4.2 12.6

100 4.2 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

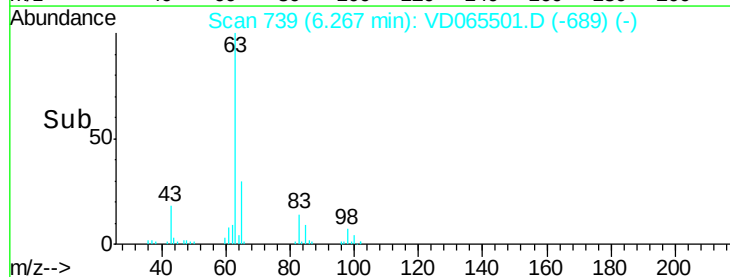
60000

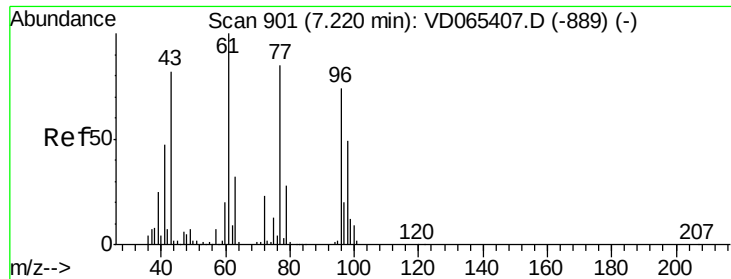
40000

20000

0

Time-->





#25

2-Butanone

Concen: 101.171 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 43 Resp: 109403

Ion Ratio Lower Upper

43 100

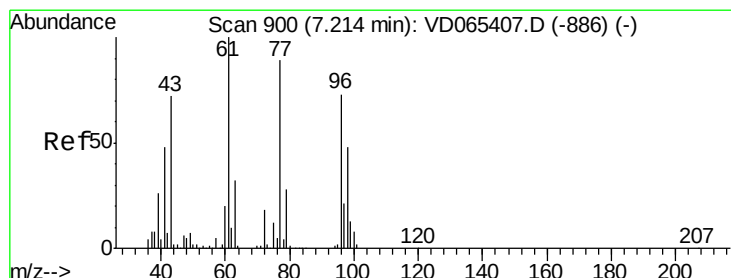
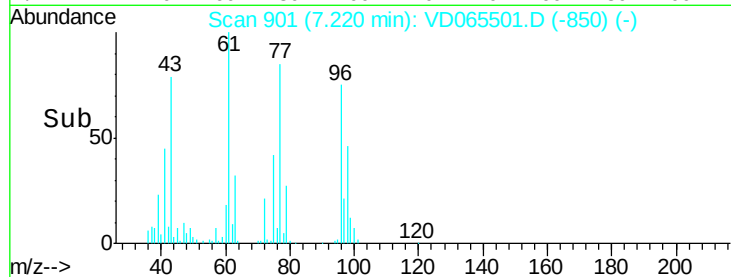
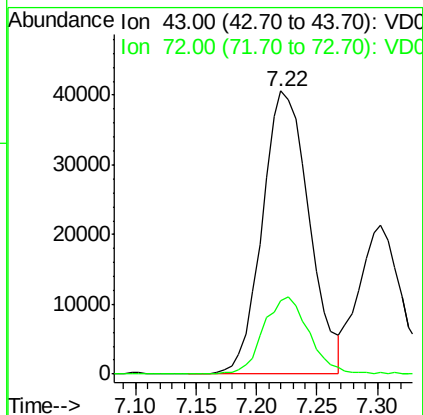
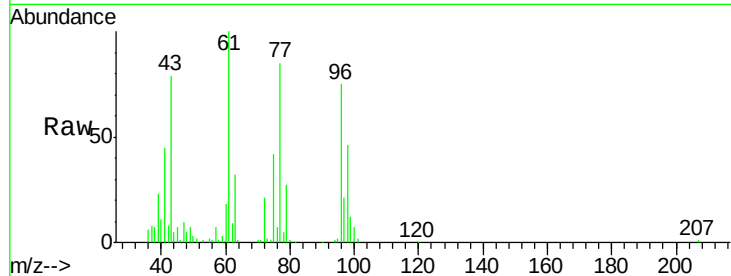
72 26.1 22.3 33.5

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 21.412 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065501.D

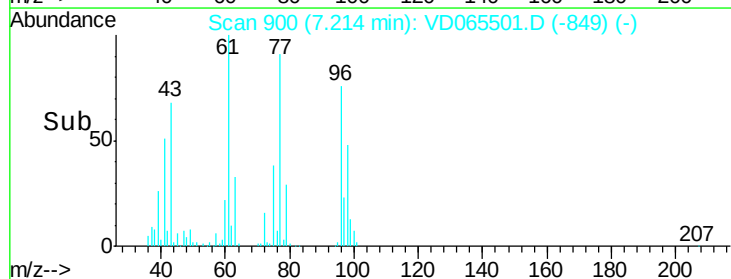
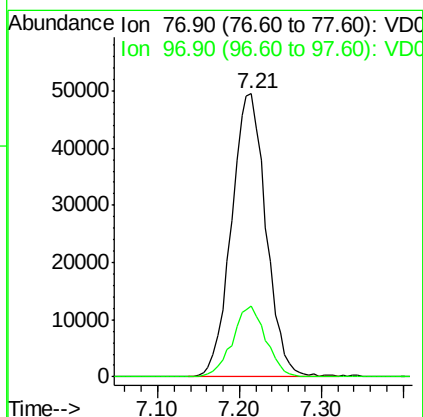
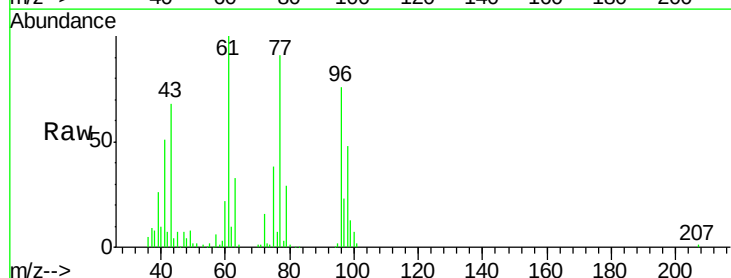
Acq: 13 Mar 2020 12:37

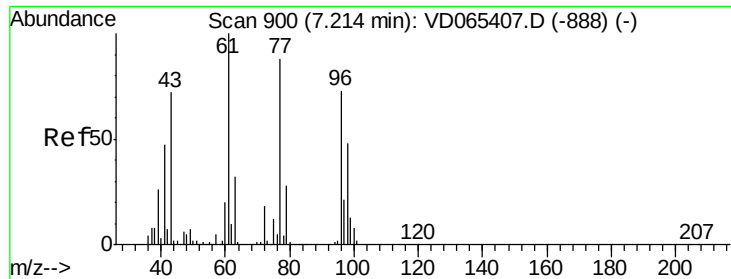
Tgt Ion: 77 Resp: 145594

Ion Ratio Lower Upper

77 100

97 24.1 11.8 35.4





#27

cis-1,2-Dichloroethene

Concen: 21.799 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

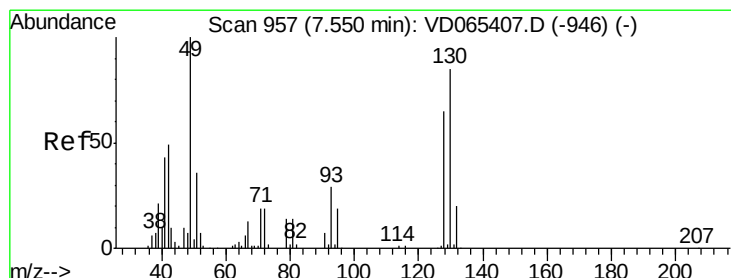
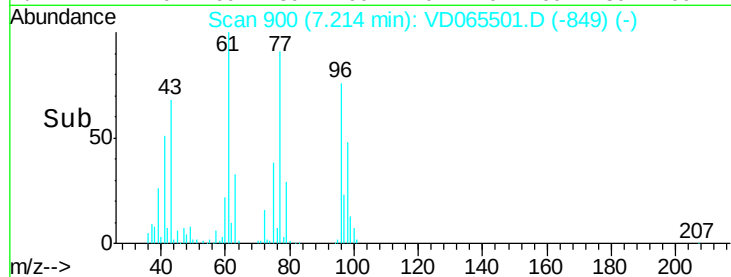
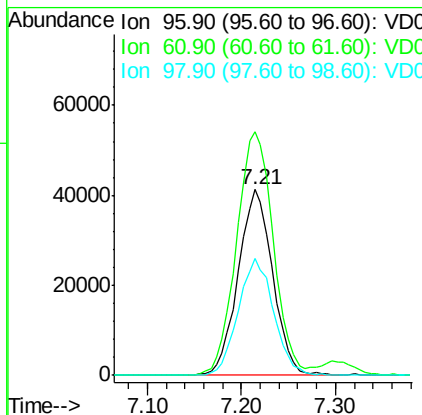
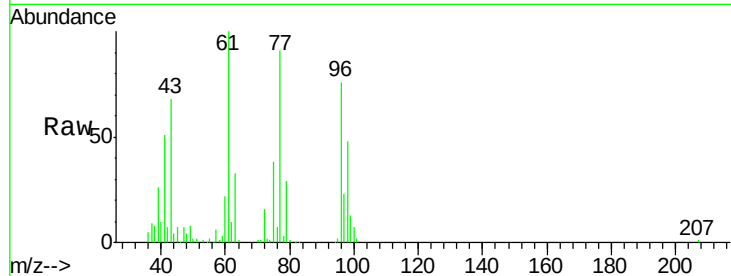
ClientSampleId :

VD0313SBS01

Tot Ion:	96	Resp:	105294
Ion Ratio	Lower	Upper	
96	100		
61	139.3	0.0	280.4
98	64.5	0.0	132.6

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#28

Bromochloromethane

Concen: 22.135 ug/l

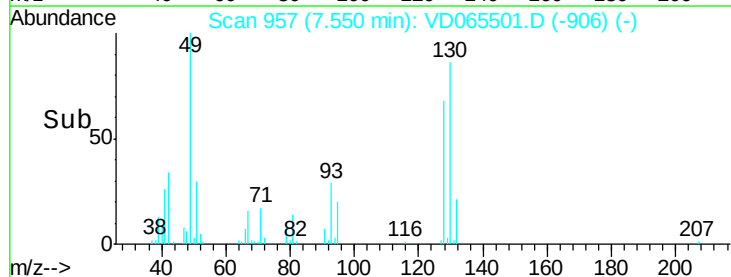
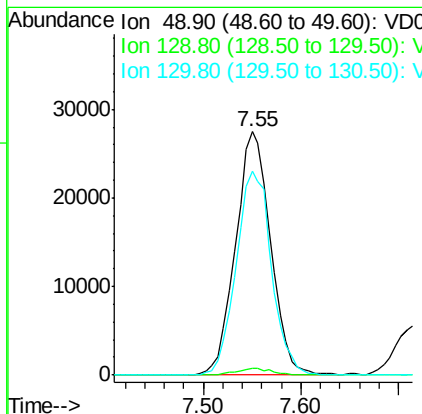
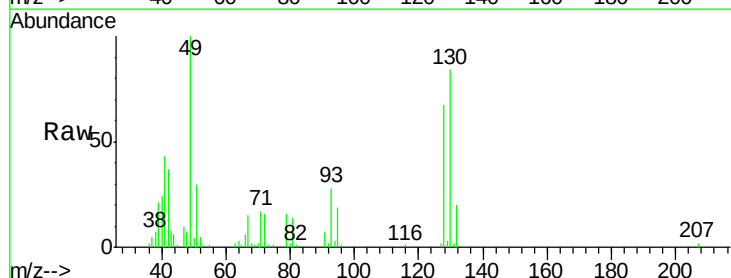
RT: 7.55 min Scan# 957

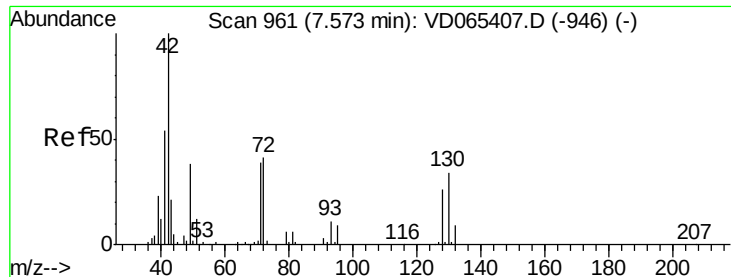
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	49	Resp:	68908
Ion Ratio	Lower	Upper	
49	100		
129	2.8	0.0	4.6
130	84.4	66.6	100.0





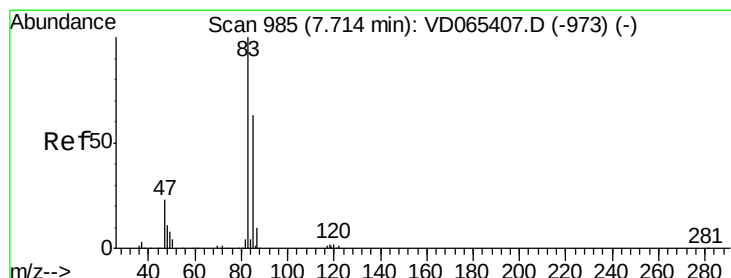
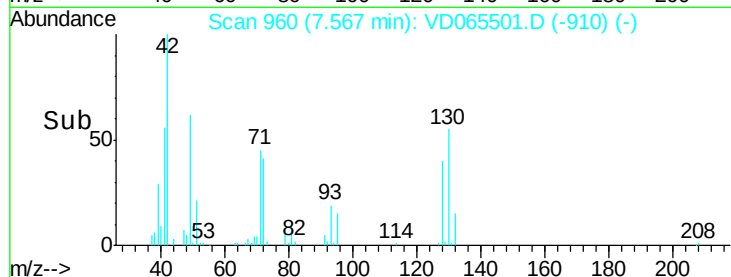
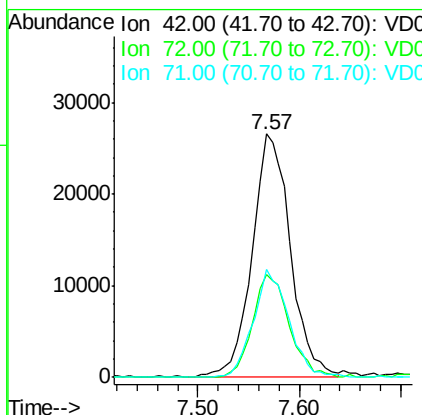
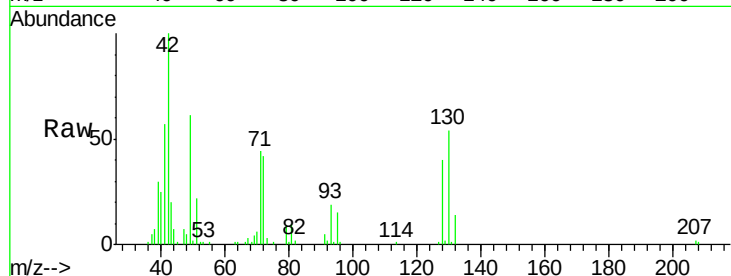
#29
Tetrahydrofuran
Concen: 101.506 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	33.0	49.6
71	41.3	32.0	48.0

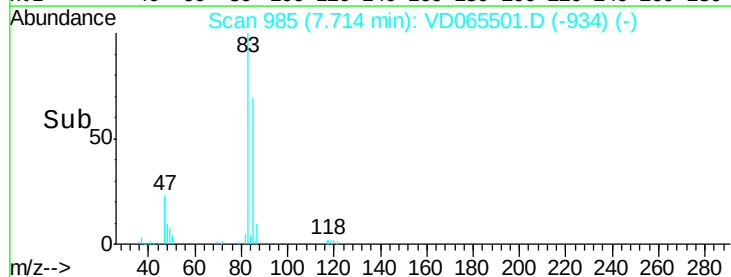
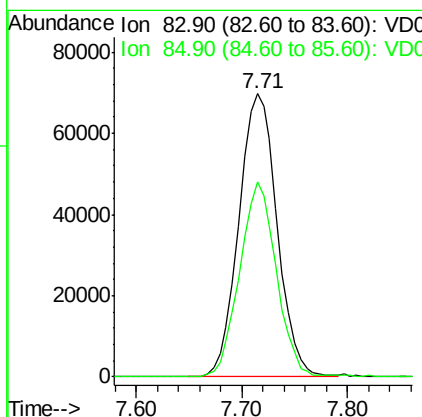
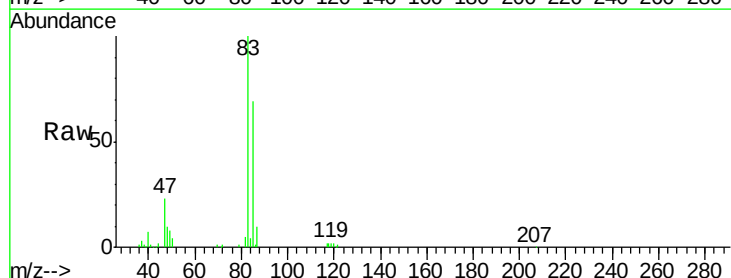
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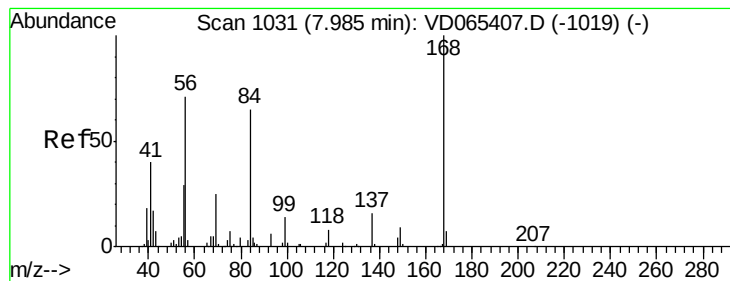
MMDadoda
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#30
Chloroform
Concen: 22.519 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.9	50.3	75.5





#31

Cyclohexane

Concen: 20.237 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

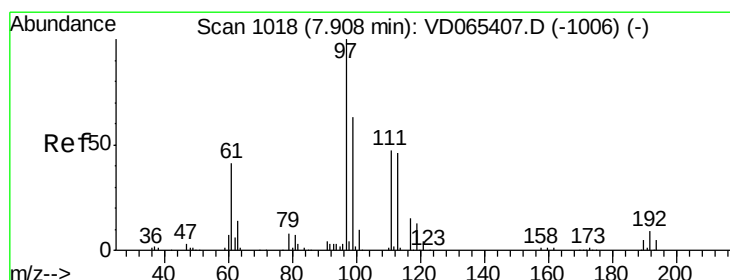
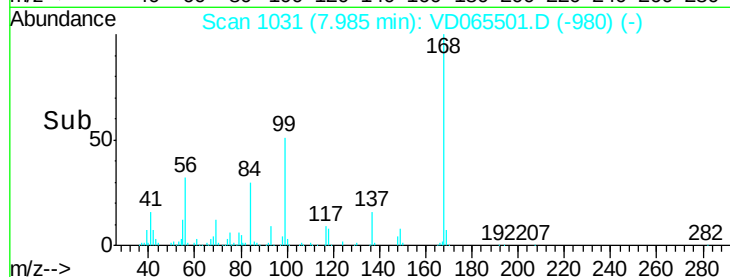
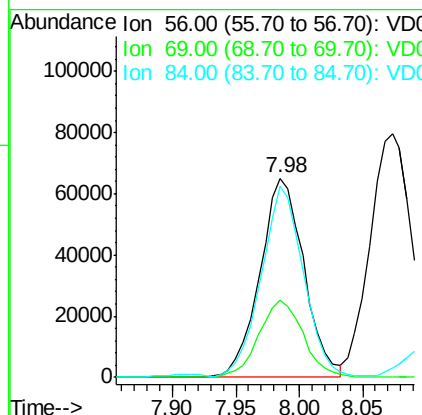
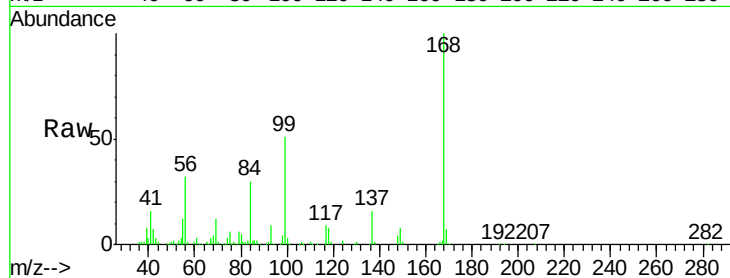
ClientSampleId :

VD0313SBS01

Tot Ion:	56	Resp:	157450
Ion	Ratio	Lower	Upper
56	100		
69	38.9	28.3	42.5
84	94.7	73.1	109.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.669 ug/l

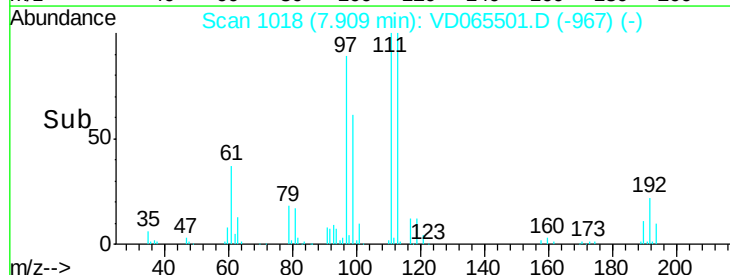
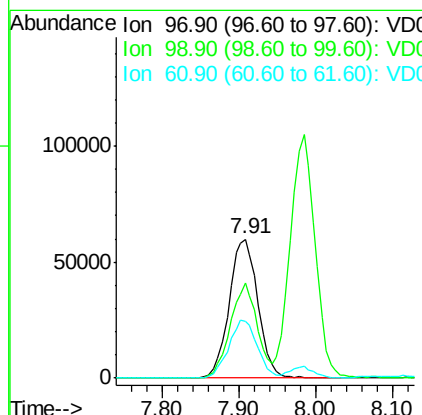
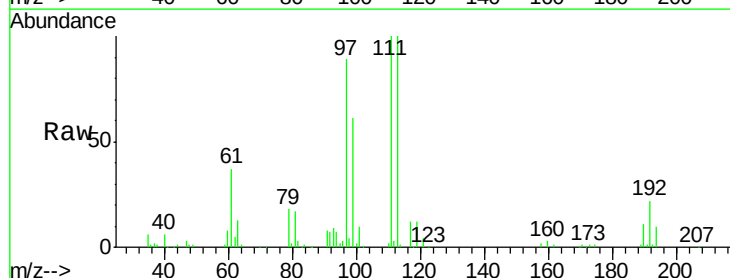
RT: 7.91 min Scan# 1018

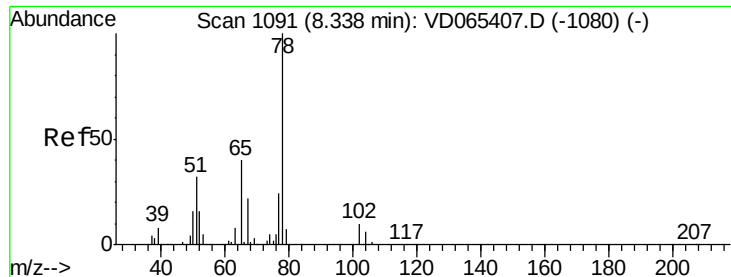
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	97	Resp:	155739
Ion	Ratio	Lower	Upper
97	100		
99	64.7	50.9	76.3
61	41.8	33.2	49.8





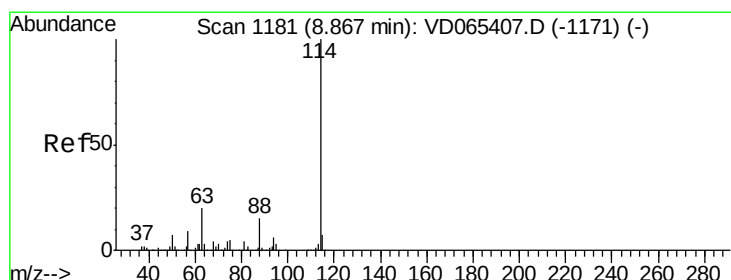
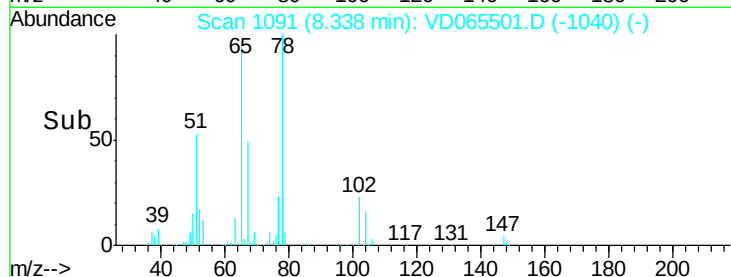
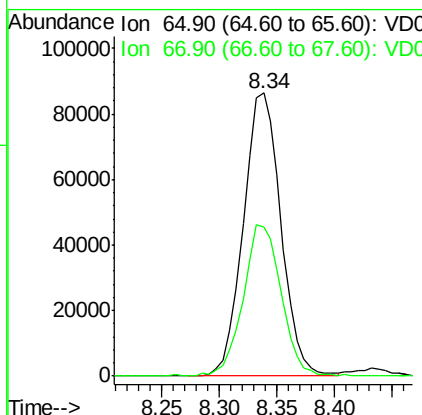
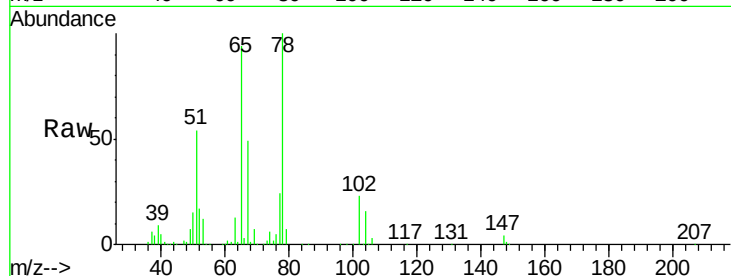
#33
 1,2-Dichloroethane-d4
 Concen: 50.122 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313BSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	196388		
67	53.9	0.0	108.0	

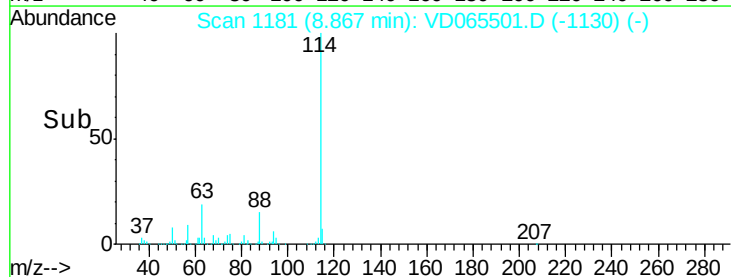
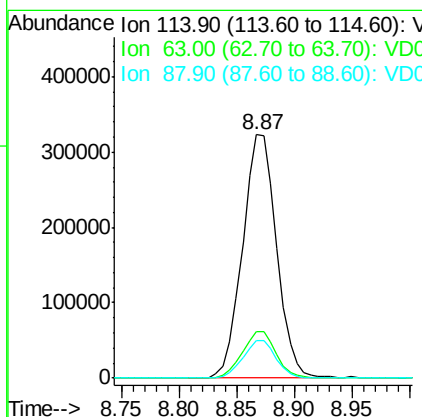
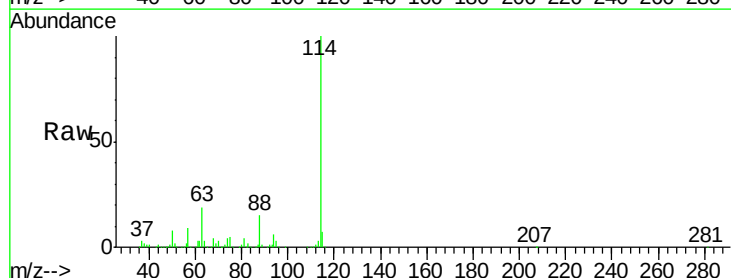
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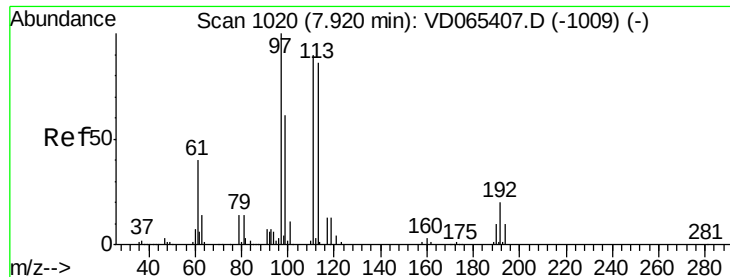
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	663816		
63	19.2	0.0	39.6	
88	15.4	0.0	30.4	





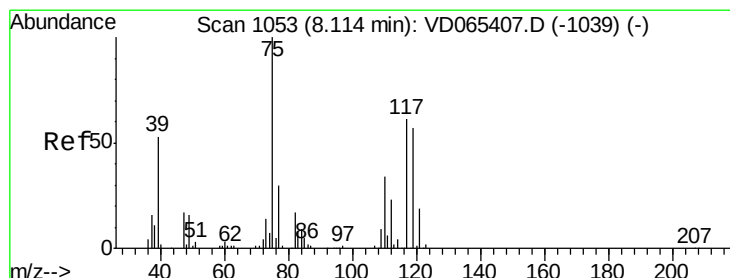
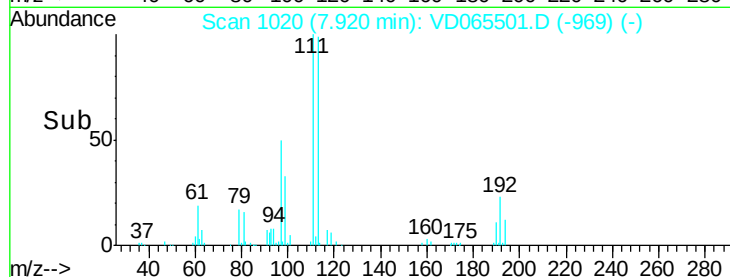
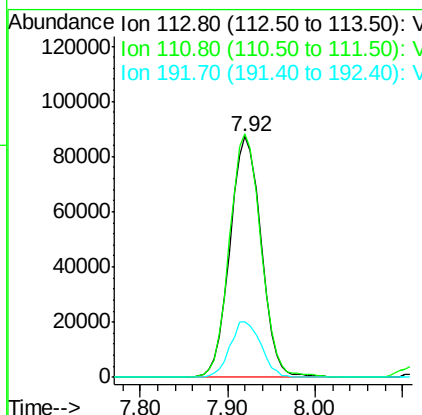
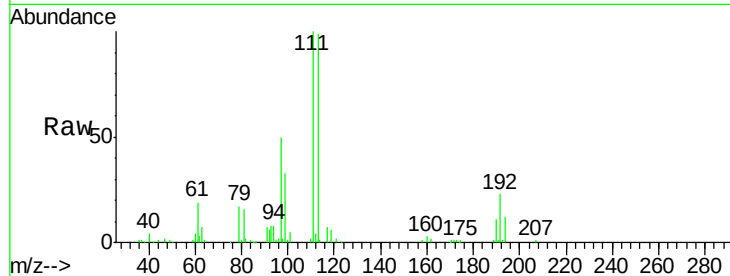
#35
 Dibromofluoromethane
 Concen: 51.445 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.1	123.1
192	23.0	17.2	25.8

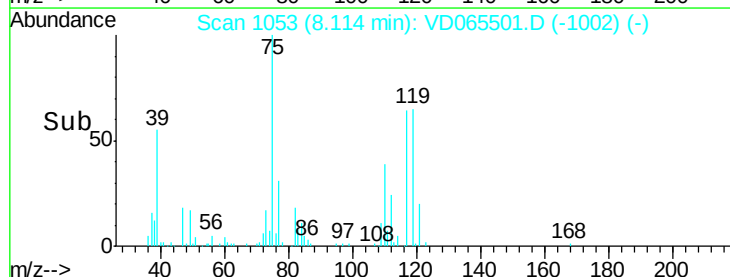
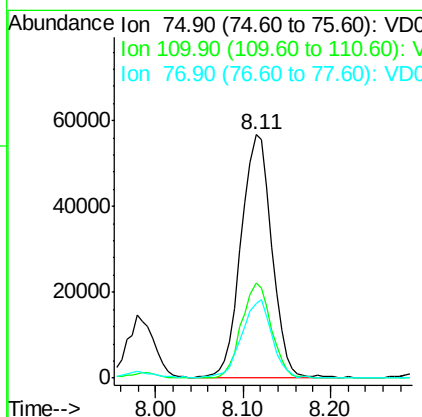
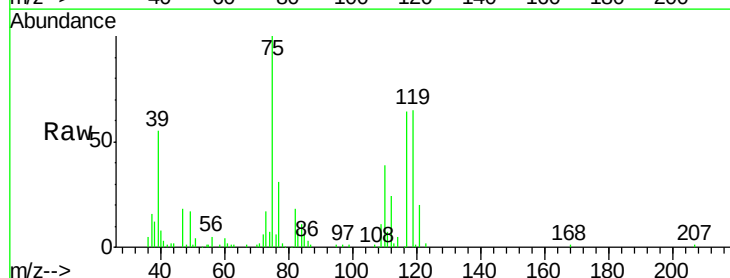
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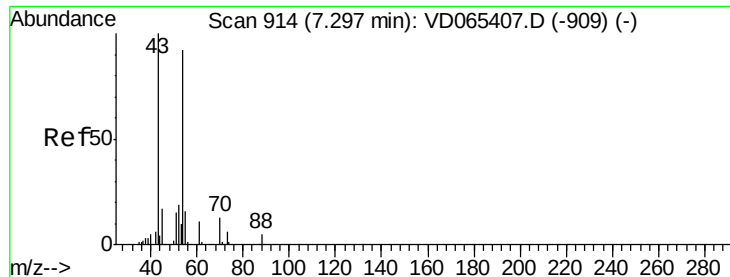
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#36
 1,1-Dichloropropene
 Concen: 21.305 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.5	18.1	54.1
77	31.7	25.2	37.8





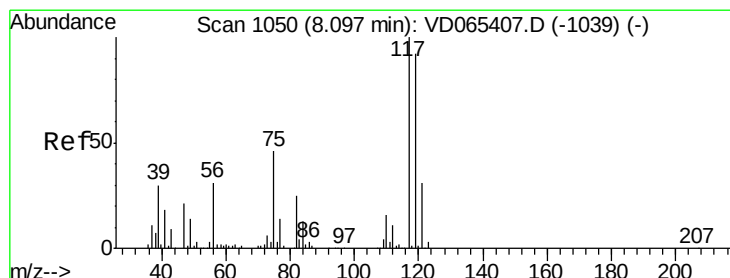
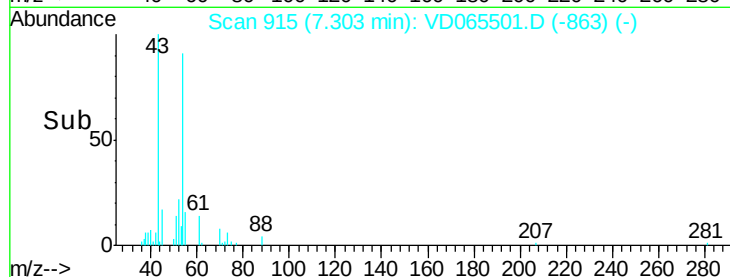
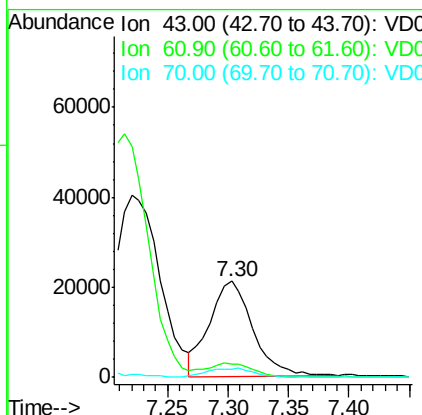
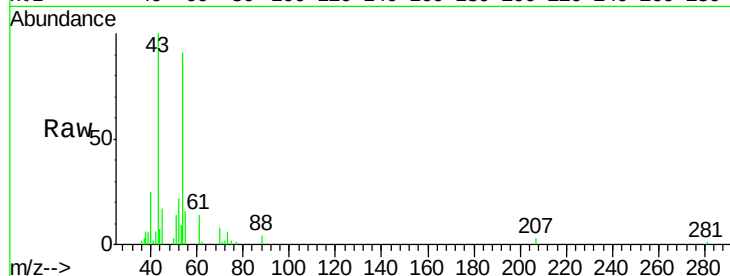
#37
Ethyl Acetate
Concen: 21.463 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.4	17.0
70	10.0	9.0	13.4

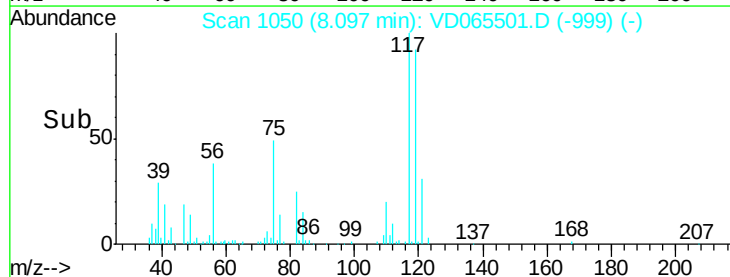
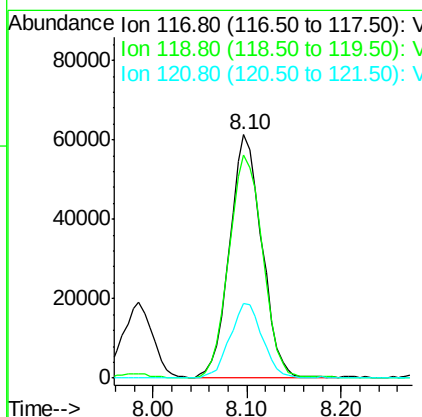
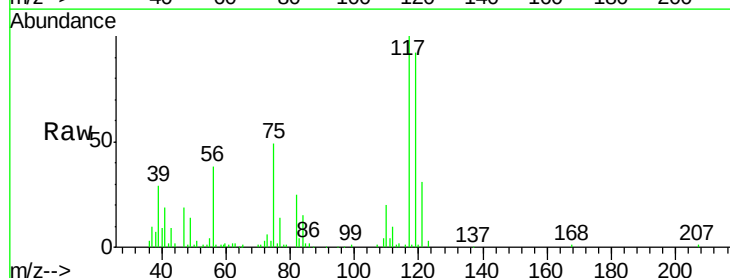
Manual Integrations
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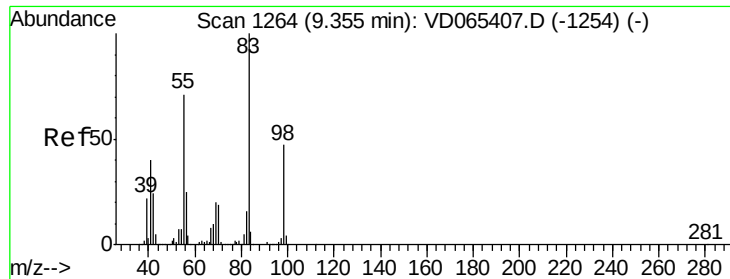
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#38
Carbon Tetrachloride
Concen: 22.010 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.5	73.3	109.9
121	30.8	25.0	37.4





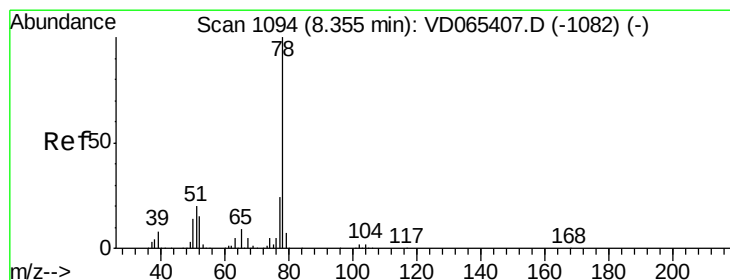
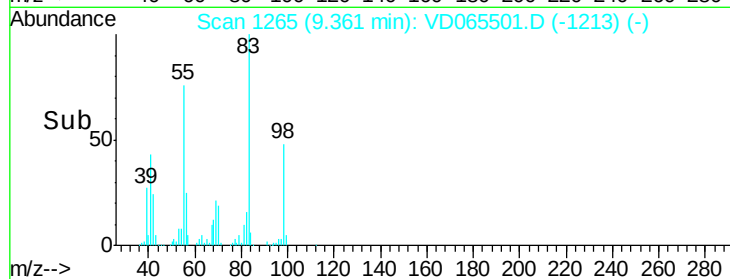
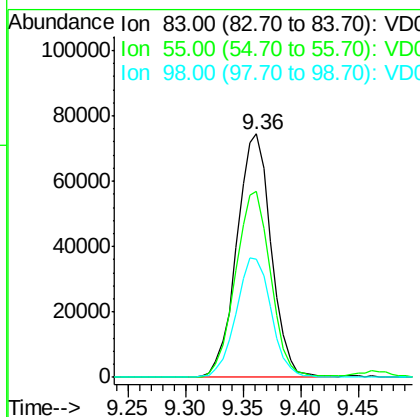
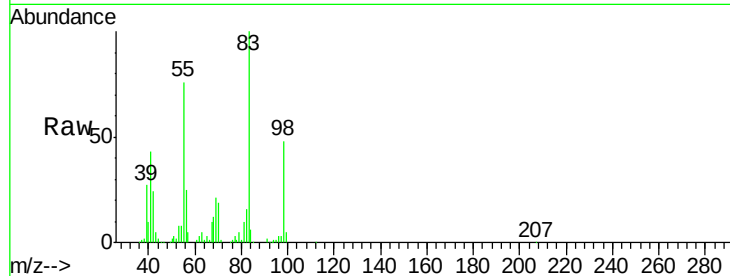
#39
Methylvlcyclohexane
Concen: 20.097 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.2	57.1	85.7
98	48.4	37.8	56.8

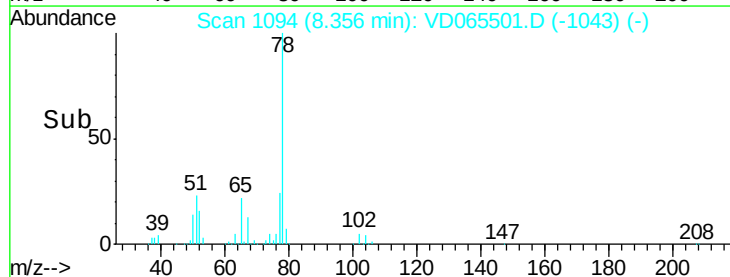
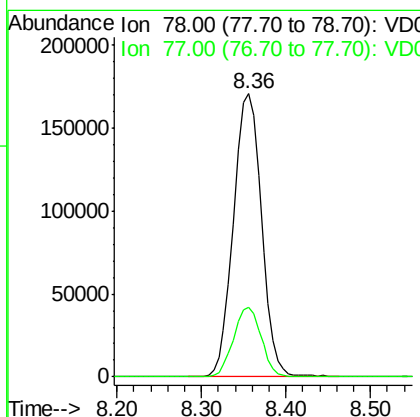
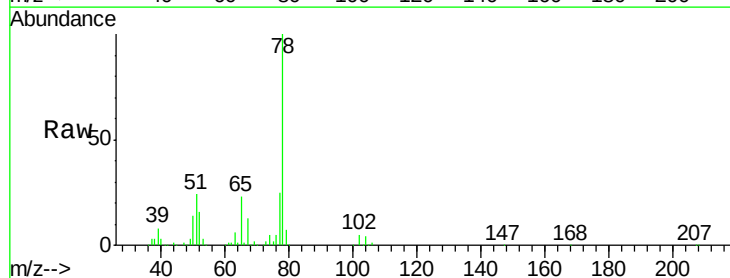
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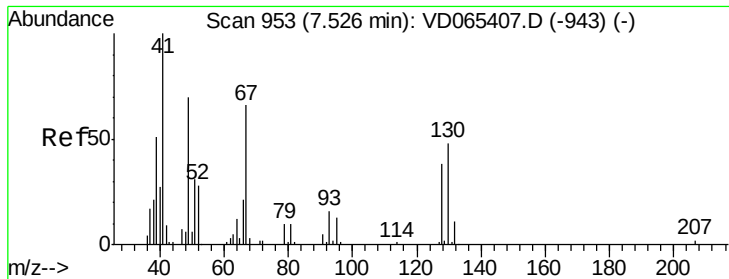
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#40
Benzene
Concen: 22.074 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.4	29.0





#41

Methacrylonitrile

Concen: 21.104 ug/l

RT: 7.54 min Scan# 955

Delta R.T. 0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 41 Resp: 27449

Ion Ratio Lower Upper

41 100

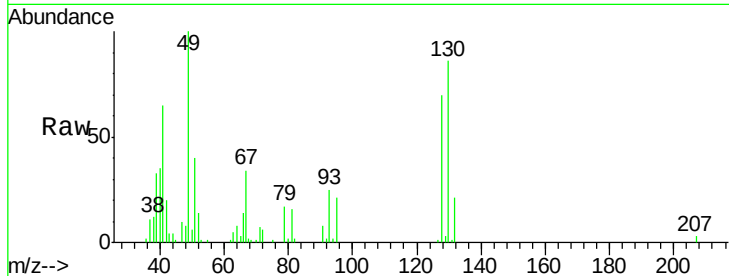
39 53.2 55.0 82.6#

67 75.9 70.3 105.5

52 32.4 30.7 46.1

Manual Integrations
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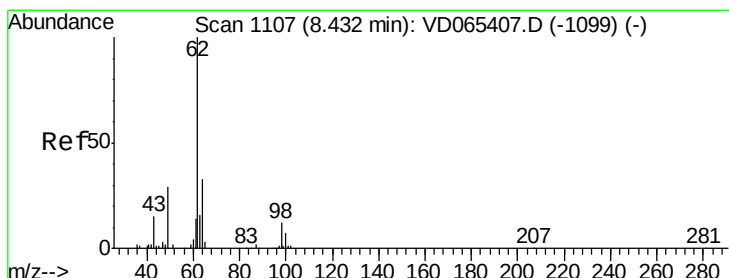
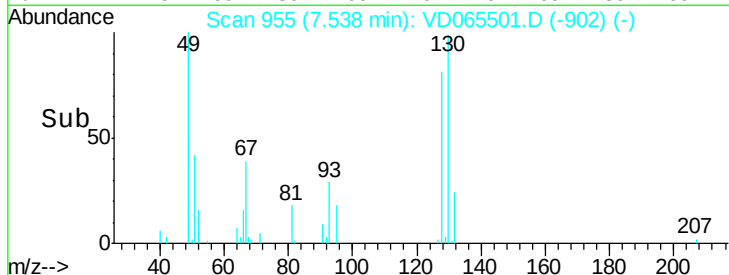
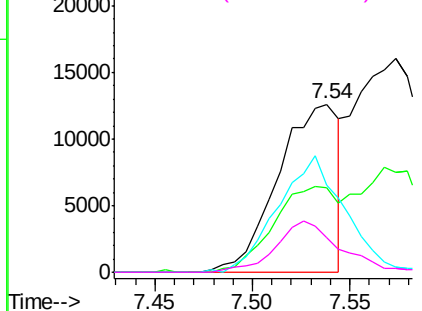


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 22.736 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD065501.D

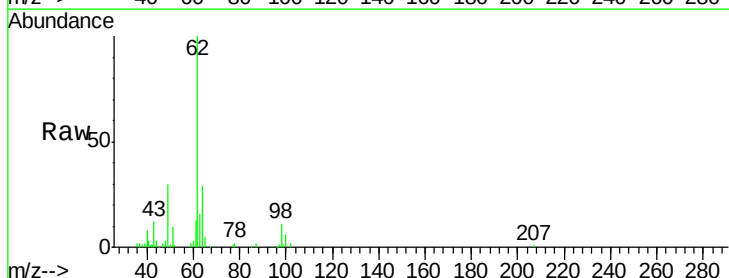
Acq: 13 Mar 2020 12:37

Tgt Ion: 62 Resp: 105626

Ion Ratio Lower Upper

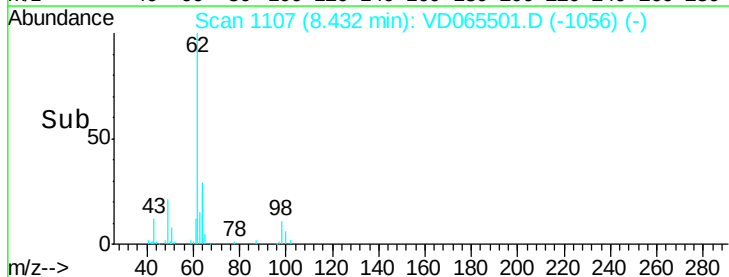
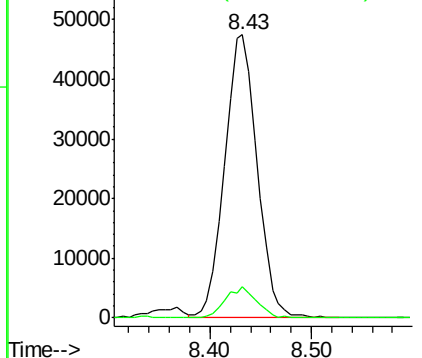
62 100

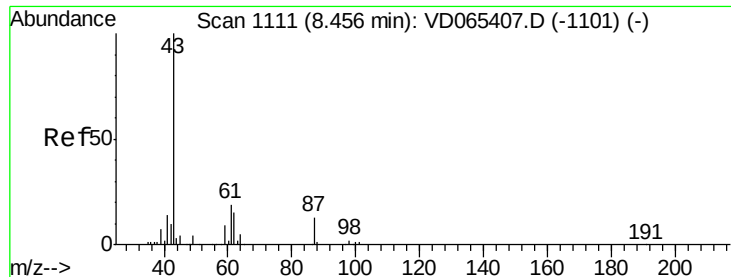
98 10.5 0.0 21.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





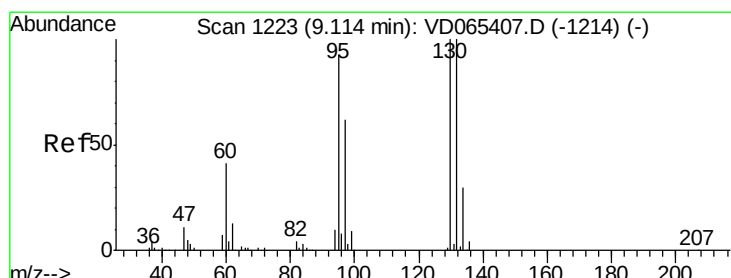
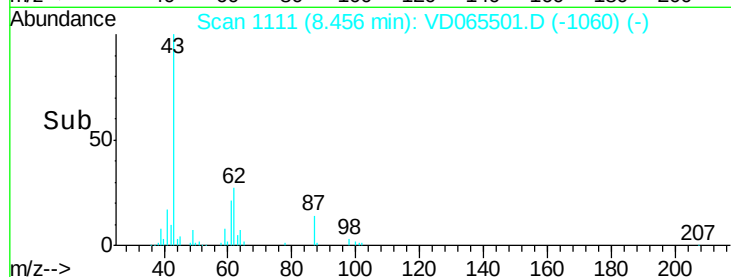
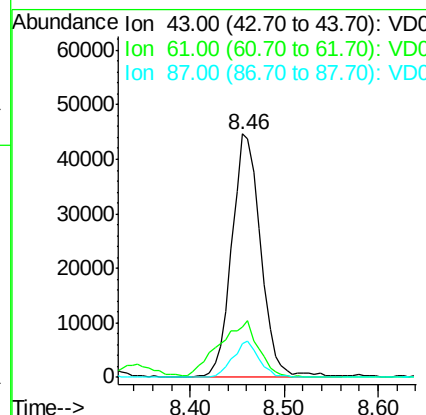
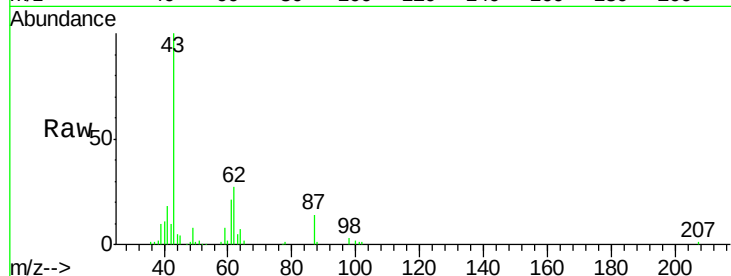
#43
Isopropyl Acetate
Concen: 21.113 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.5	25.0	37.6
87	13.3	11.0	16.4

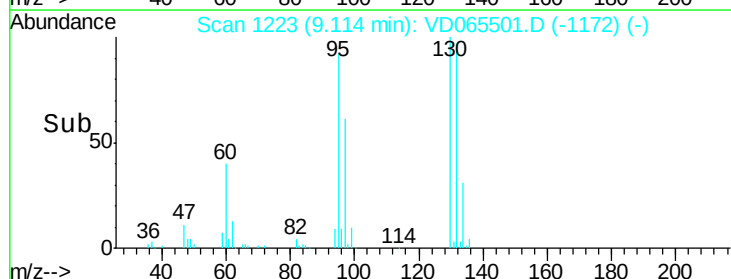
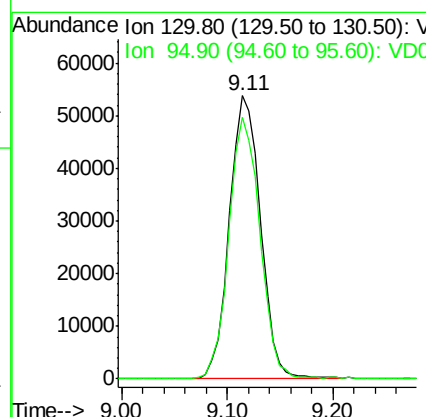
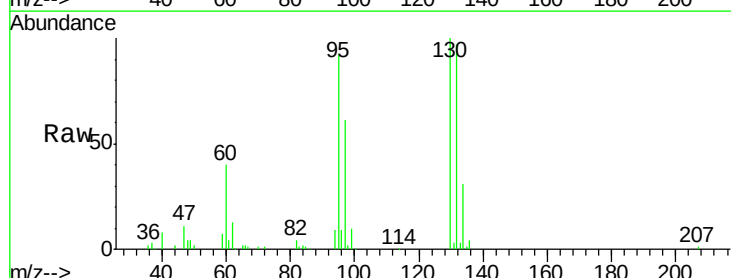
Manual Integrations
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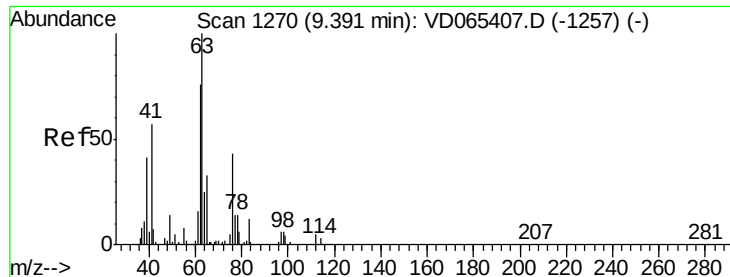
MMDadoda
3/16/2020 2:05:28 PM



#44
Trichloroethene
Concen: 21.859 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.2	0.0	186.0





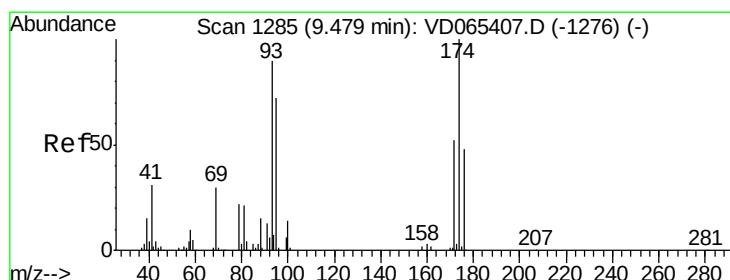
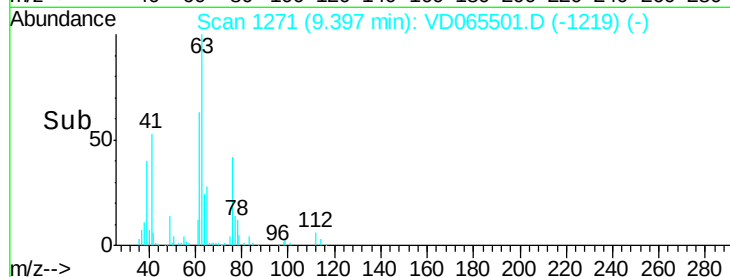
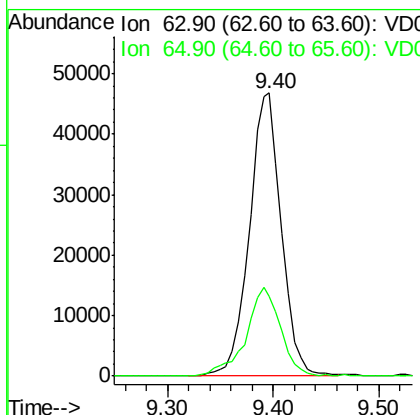
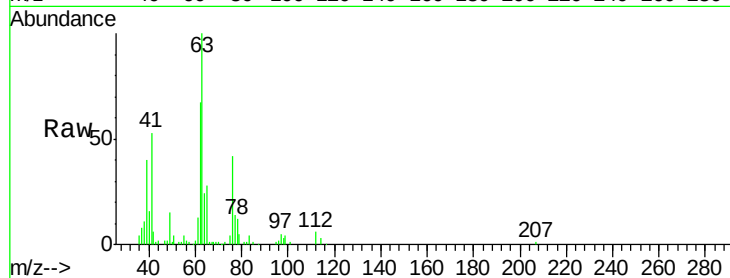
#45
 1,2-Dichloropropane
 Concen: 22.781 ug/l
 RT: 9.40 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.3	26.4	39.6

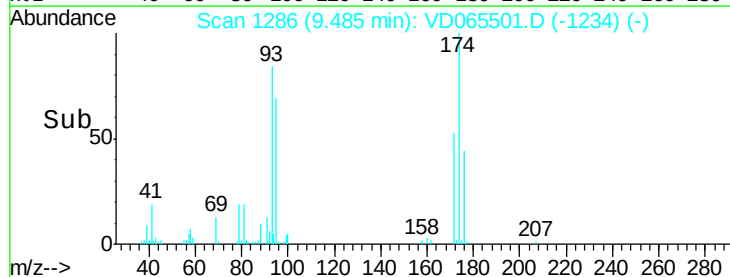
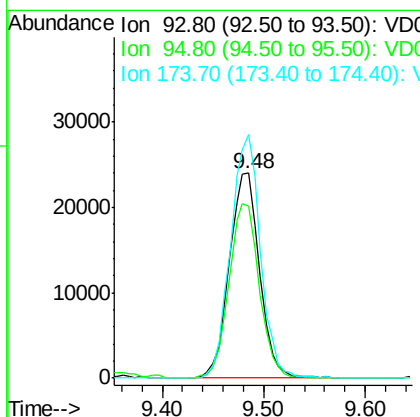
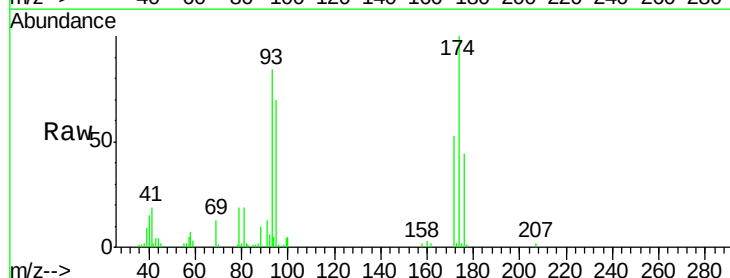
Manual Integrations
 APPROVED

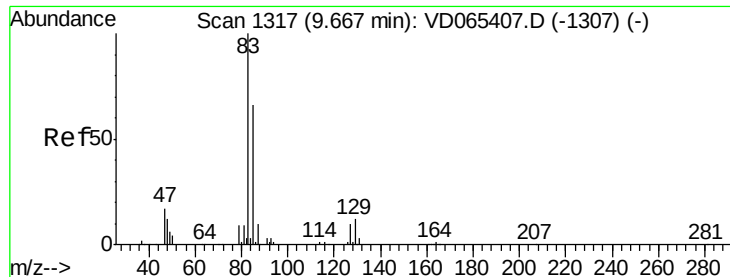
MMDadoda
 3/16/2020 2:05:28 PM



#46
 Dibromomethane
 Concen: 22.196 ug/l
 RT: 9.48 min Scan# 1286
 Delta R.T. 0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.3	65.0	97.6
174	117.1	88.3	132.5





#47

Bromodichloromethane

Concen: 22.724 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

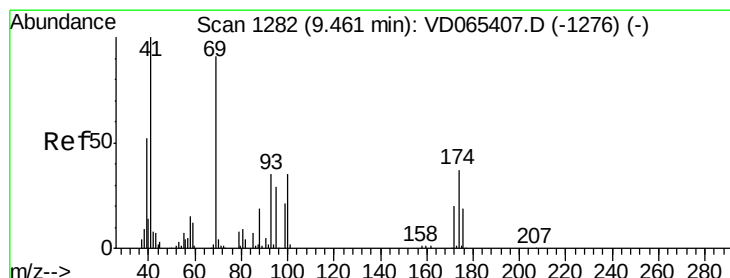
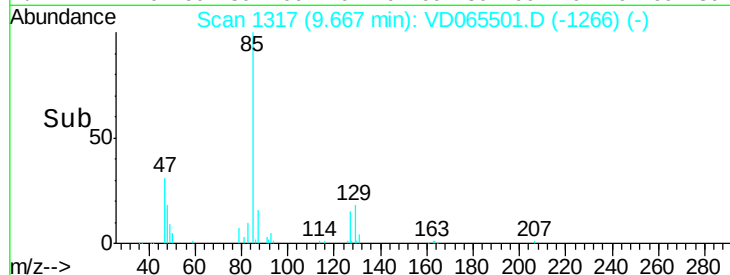
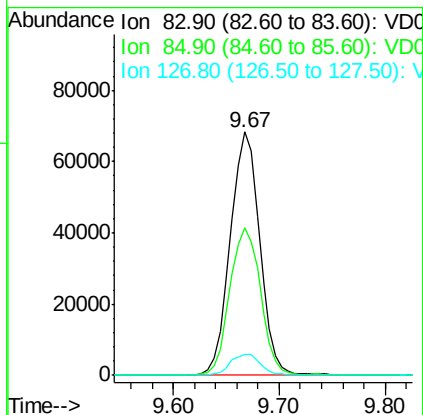
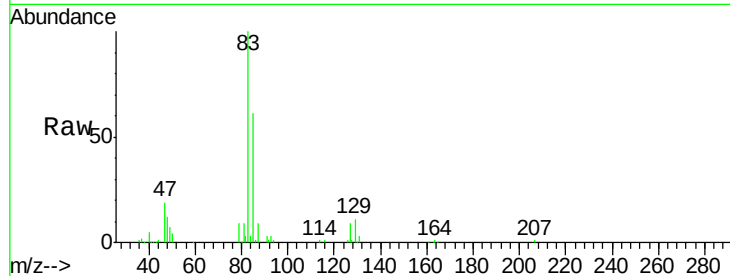
ClientSampleId :

VD0313SBS01

Tot Ion:	83	Resp:	132149
Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.8	79.2
127	8.8	8.0	12.0

Manual Integrations
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3/16/2020 2:05:28 PM



#48

Methyl methacrylate

Concen: 20.688 ug/l

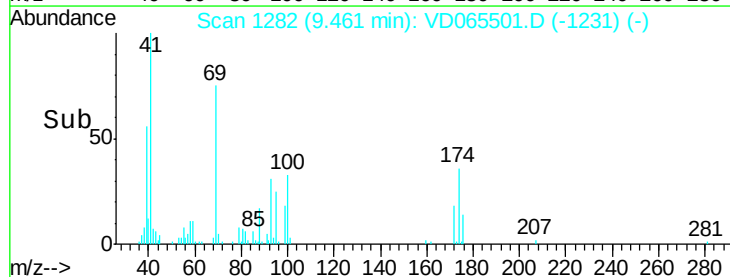
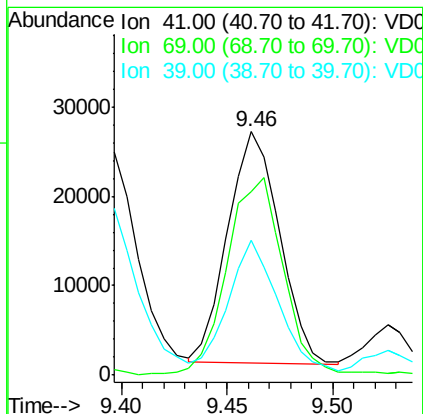
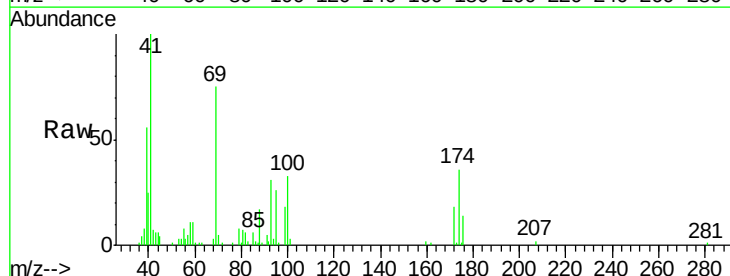
RT: 9.46 min Scan# 1282

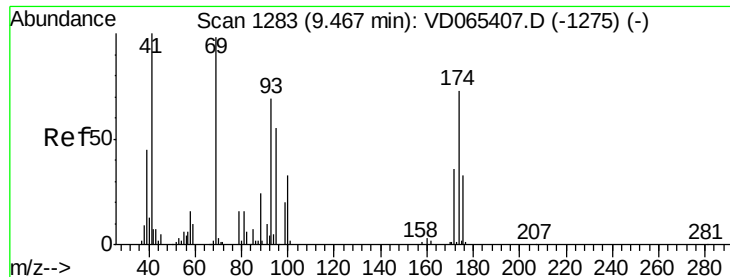
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	41	Resp:	44193
Ion	Ratio	Lower	Upper
41	100		
69	93.6	72.5	108.7
39	53.1	41.6	62.4





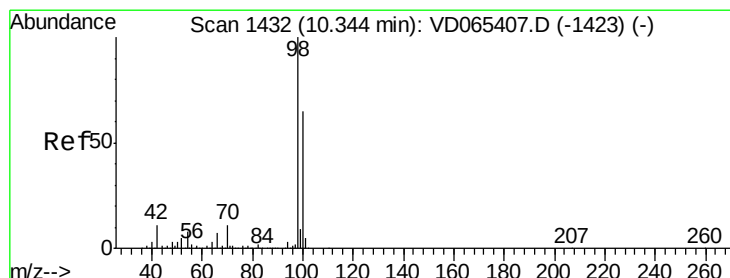
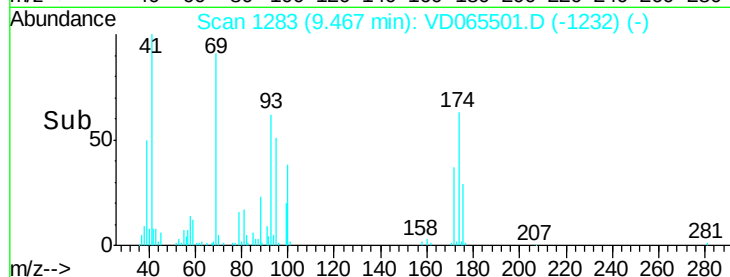
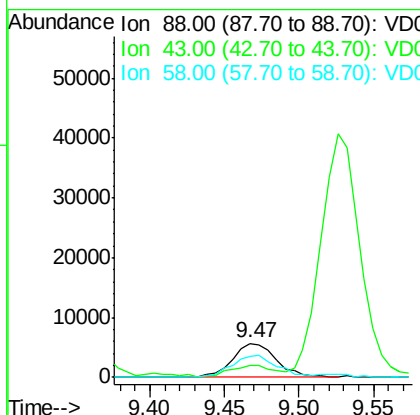
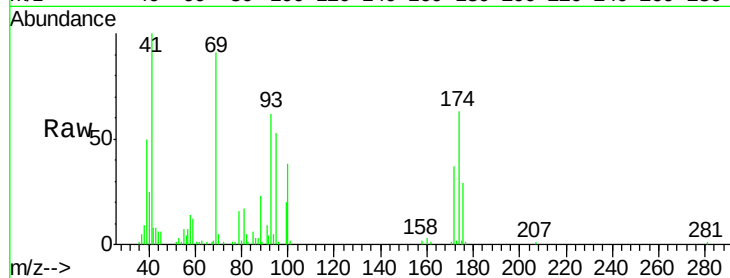
#49
1,4-Dioxane
Concen: 450.066 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	88	Resp	11508
Ion Ratio	Lower	Upper	
88	100		
43	36.2	24.5	36.7
58	66.3	54.5	81.7

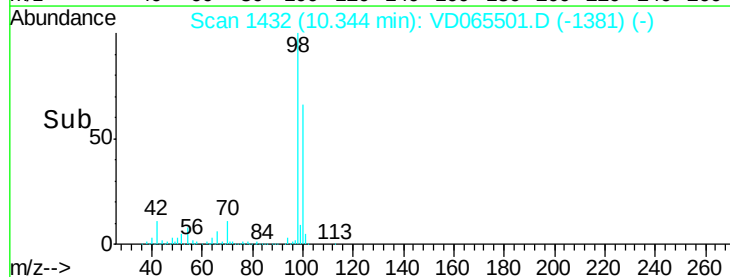
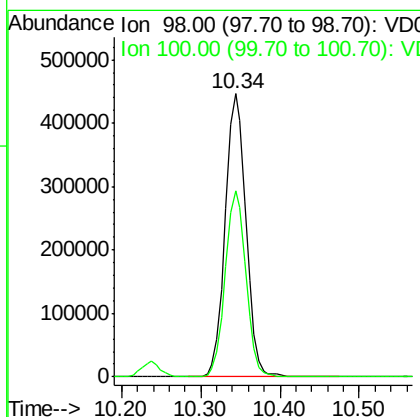
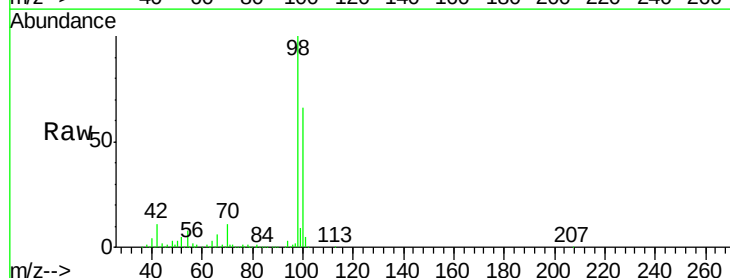
Manual Integrations
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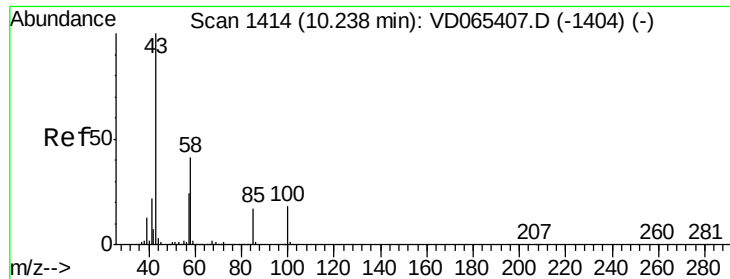
MMDadoda
3/16/2020 2:05:28 PM



#50
Toluene-d8
Concen: 51.417 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	98	Resp	809740
Ion Ratio	Lower	Upper	
98	100		
100	65.0	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 112.548 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 43 Resp: 257198

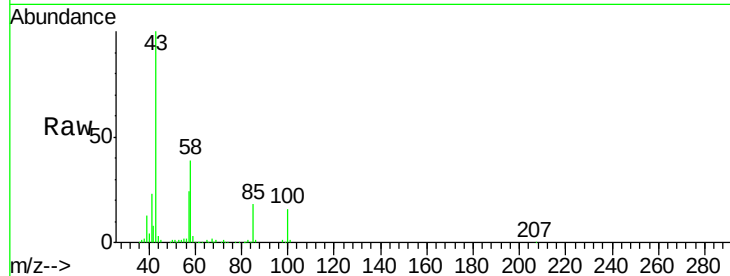
Ion Ratio Lower Upper

43 100

58 38.9 31.8 47.6

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

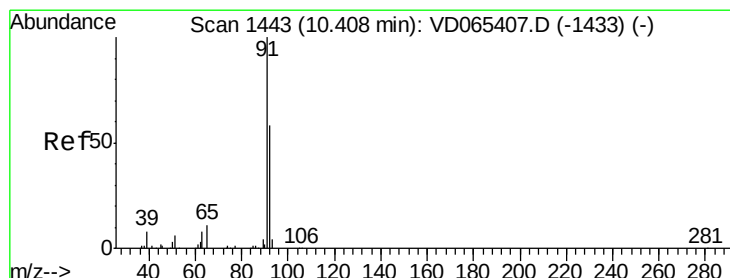
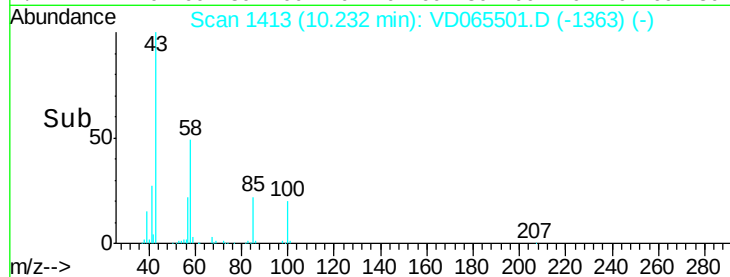
150000

100000

50000

0

Time--> 10.10 10.20 10.30



#52

Toluene

Concen: 22.311 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065501.D

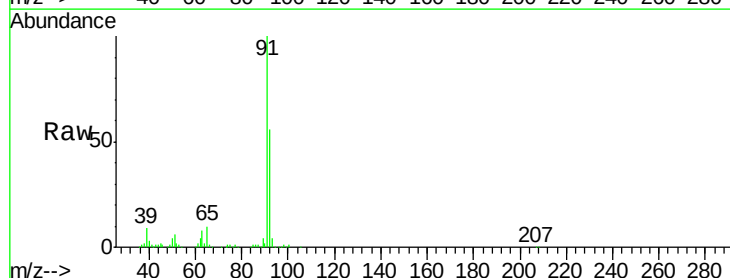
Acq: 13 Mar 2020 12:37

Tgt Ion: 92 Resp: 250061

Ion Ratio Lower Upper

92 100

91 172.9 137.8 206.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.41

250000

200000

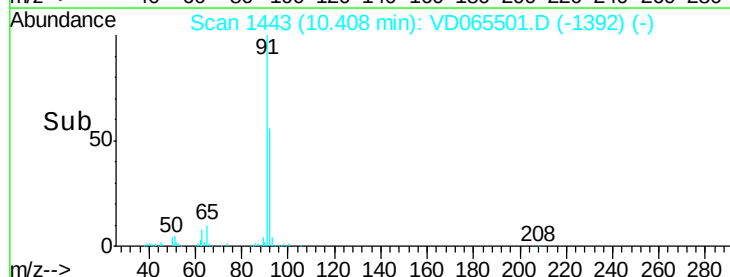
150000

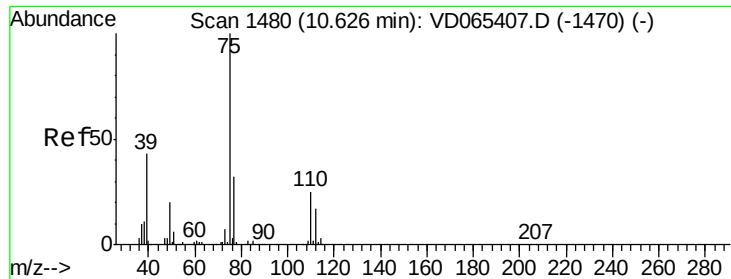
100000

50000

0

Time--> 10.30 10.40 10.50





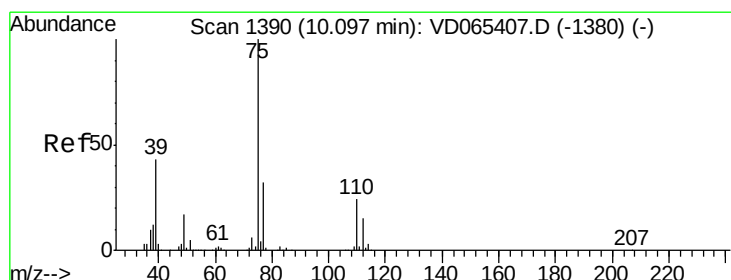
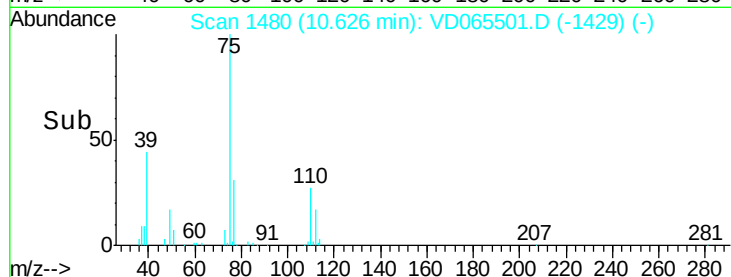
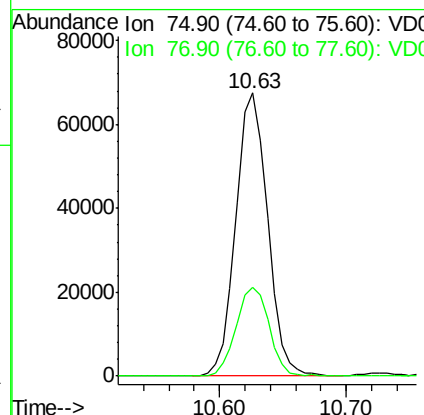
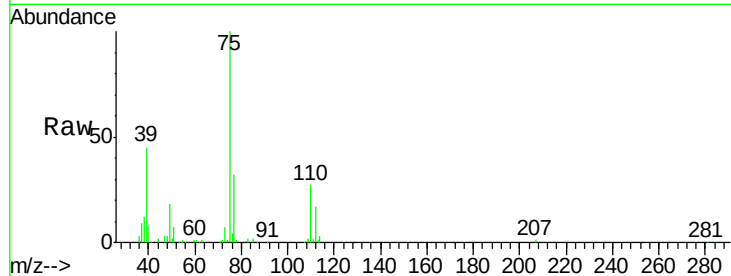
#53
t-1,3-Dichloropropene
Concen: 21.564 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

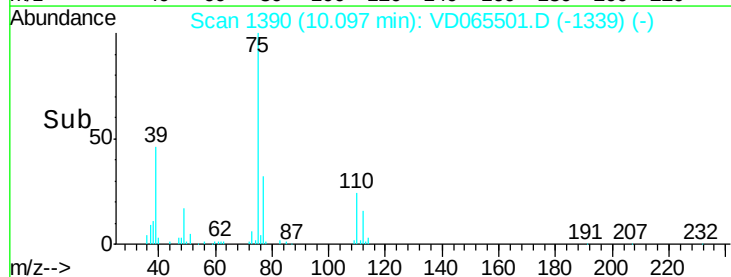
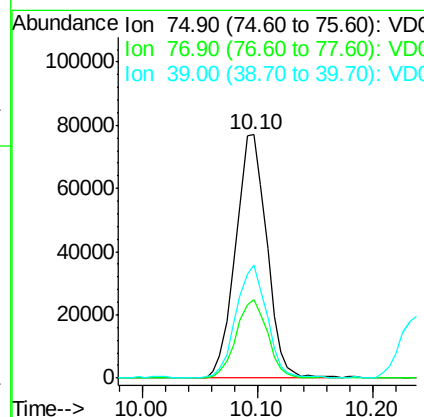
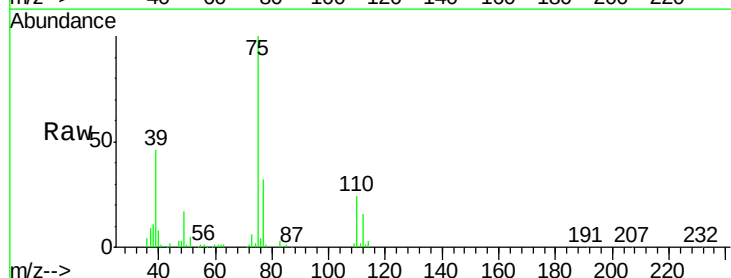
Manual Integrations
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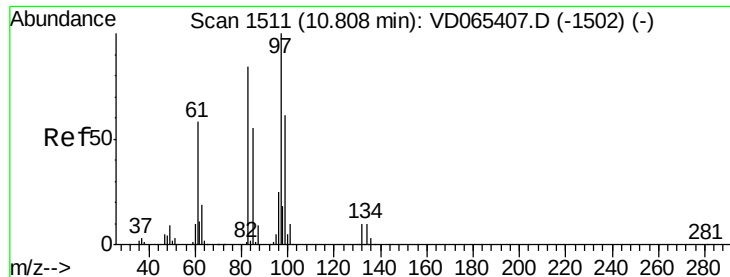
MMDadoda
3/16/2020 2:05:28 PM



#54
cis-1,3-Dichloropropene
Concen: 22.013 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.3	37.9
39	46.3	34.6	52.0





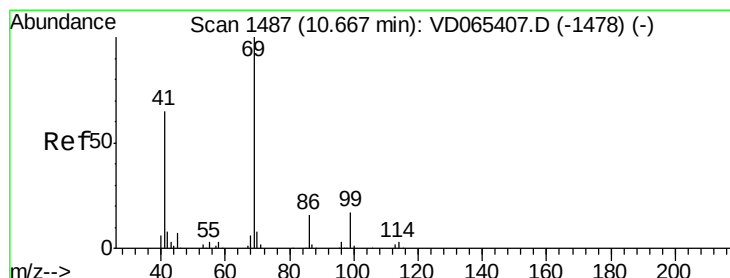
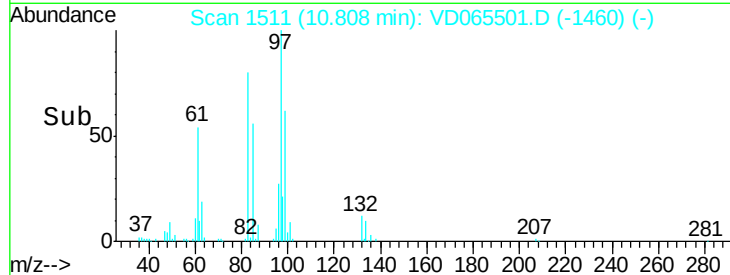
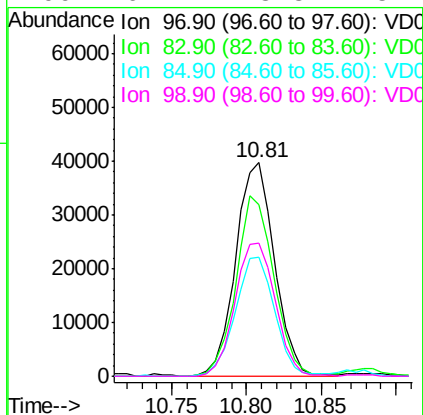
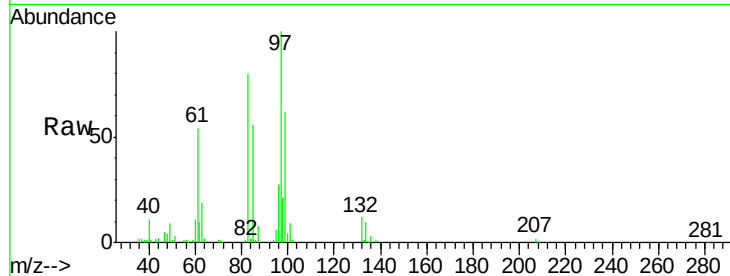
#55
 1,1,2-Trichloroethane
 Concen: 22.655 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	80.3	67.4	101.0
85	55.5	43.8	65.8
99	62.2	48.8	73.2

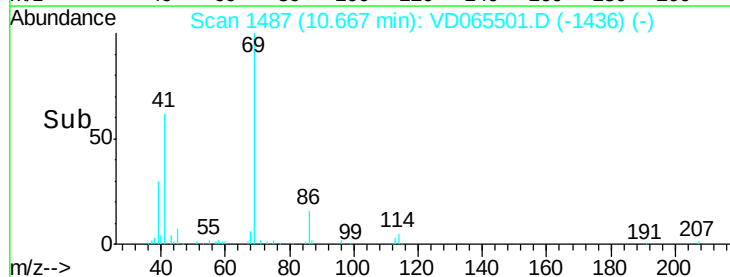
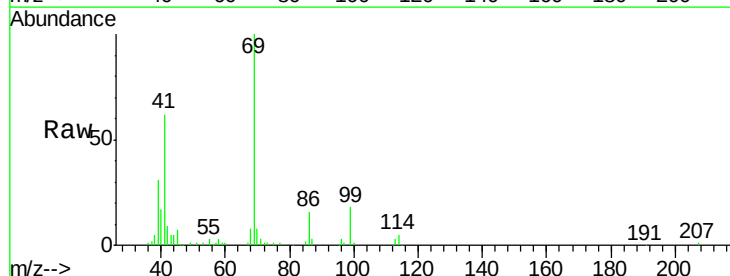
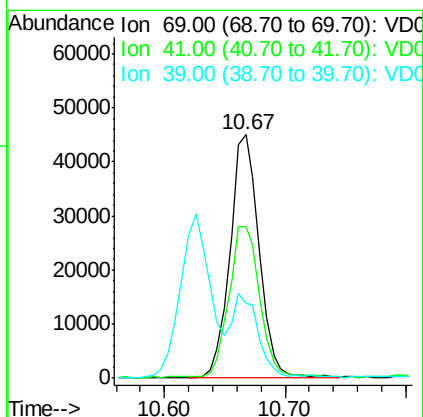
Manual Integrations
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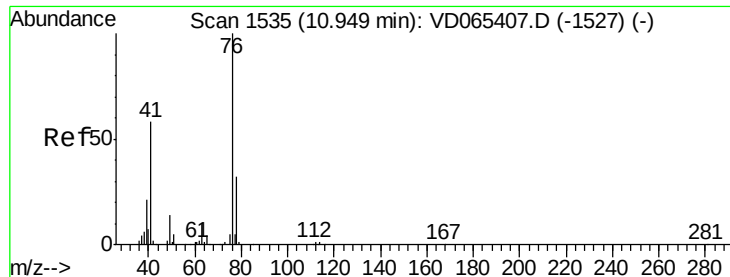
MMDadoda
 3/16/2020 2:05:28 PM



#56
 Ethyl methacrylate
 Concen: 21.236 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.8	53.0	79.6
39	32.2	26.0	39.0





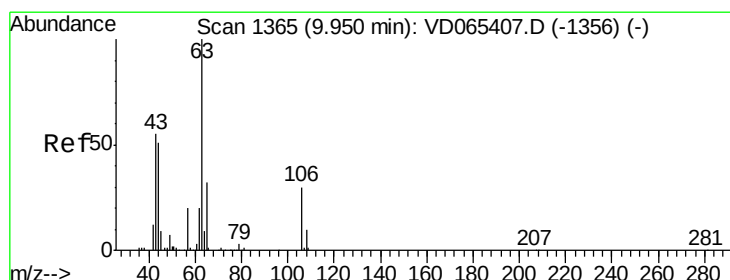
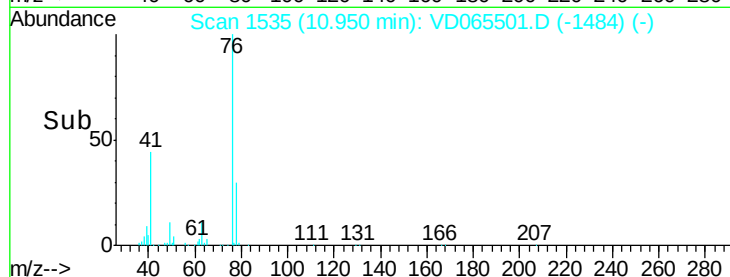
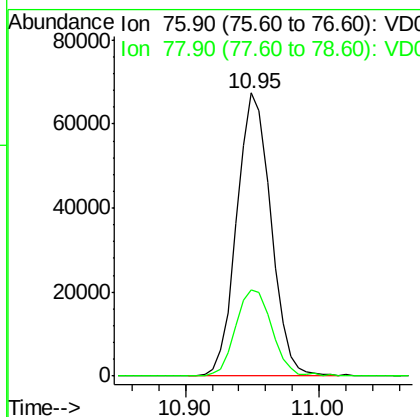
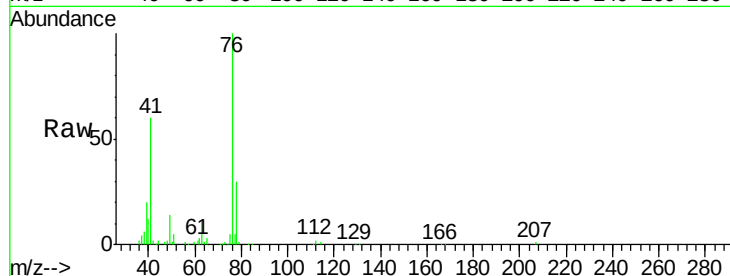
#57
 1,3-Dichloropropane
 Concen: 22.360 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.0	39.0

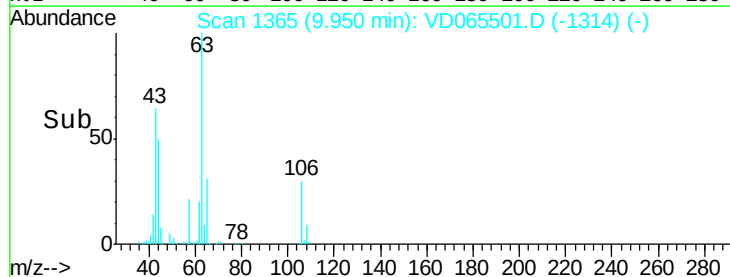
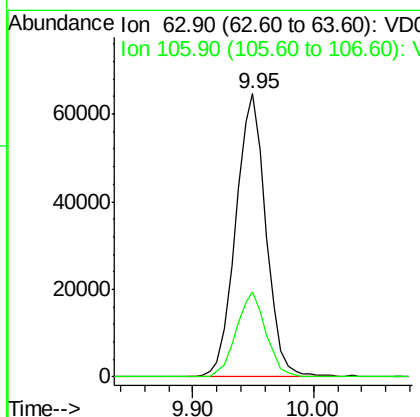
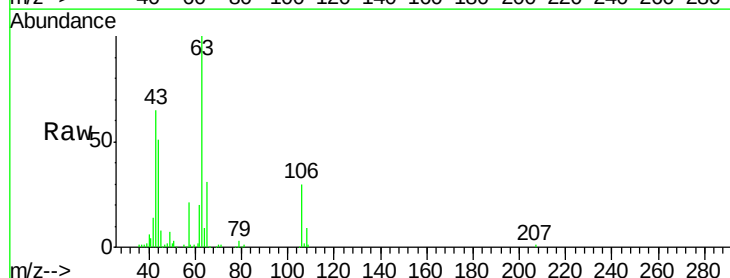
Manual Integrations
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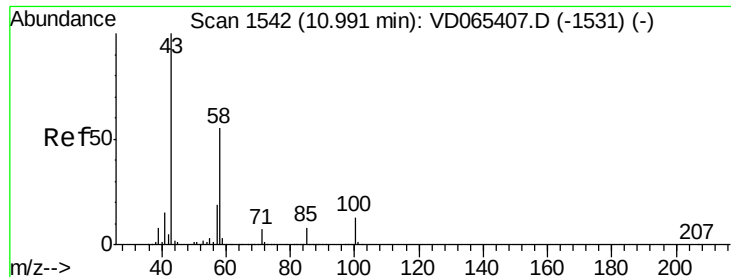
MMDadoda
 3/16/2020 2:05:28 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 102.187 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.3	34.9





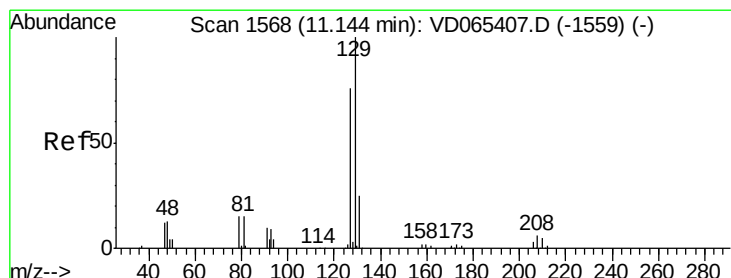
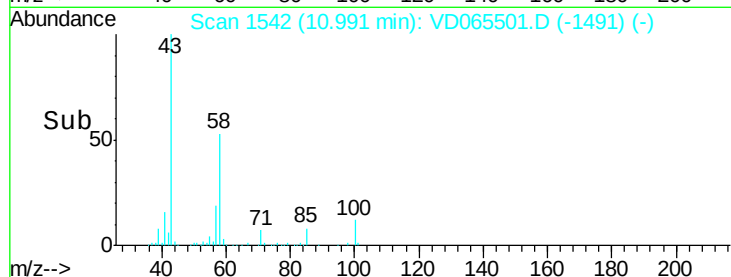
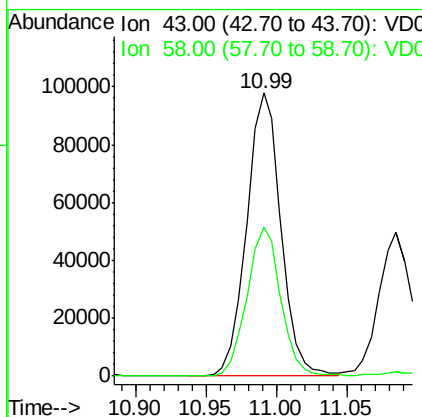
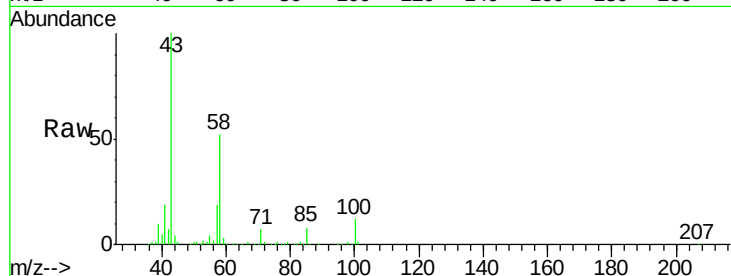
#59
2-Hexanone
Concen: 105.332 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313BSD01

Tot Ion: 43 Resp: 166627
Ion Ratio Lower Upper
43 100
58 52.0 27.4 82.2

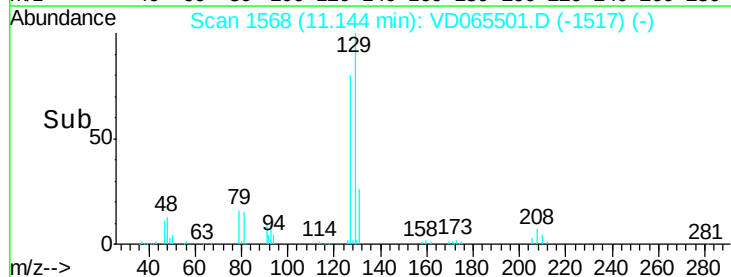
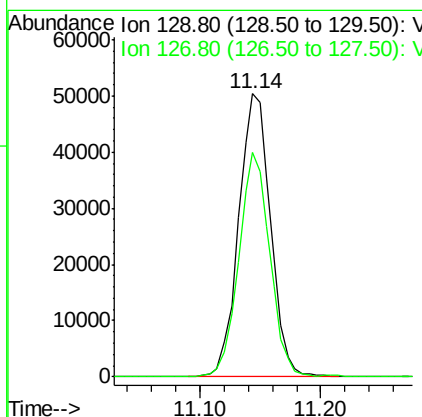
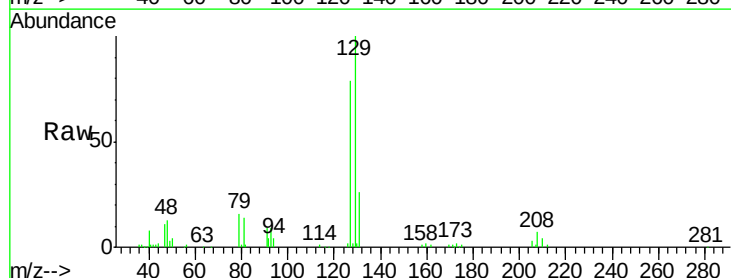
Manual Integrations
APPROVED

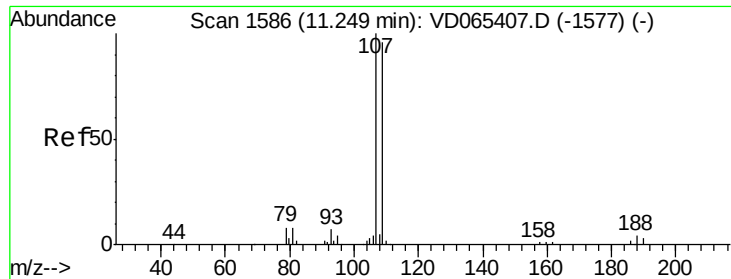
MMDadoda
3/16/2020 2:05:28 PM



#60
Dibromochloromethane
Concen: 22.862 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion: 129 Resp: 92781
Ion Ratio Lower Upper
129 100
127 77.3 38.5 115.5





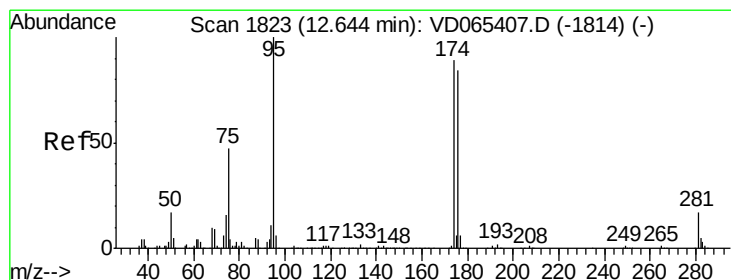
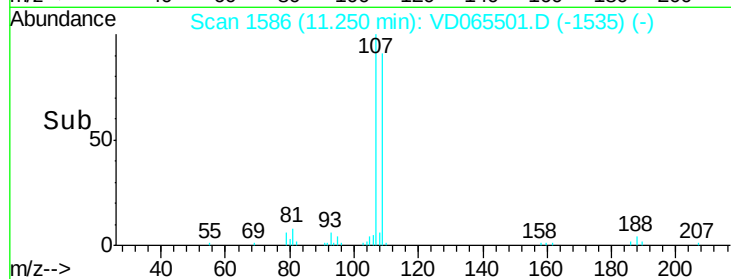
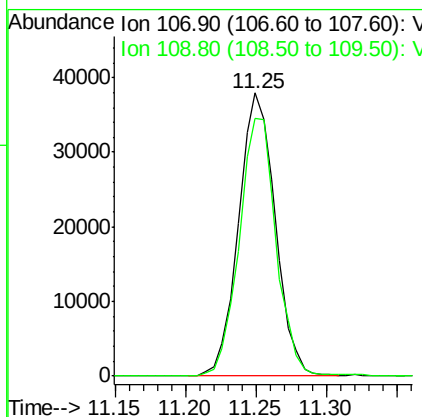
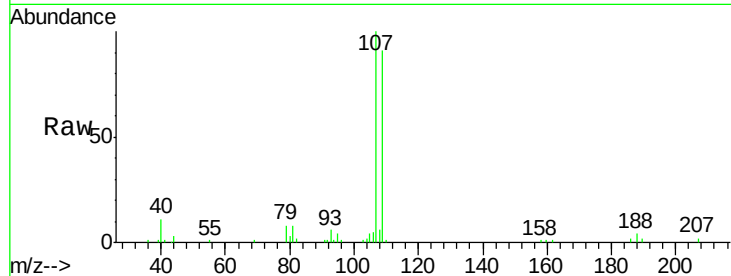
#61
 1,2-Dibromoethane
 Concen: 22.834 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313BSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.7	76.8	115.2

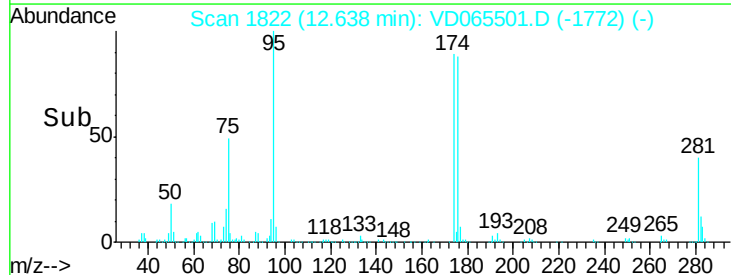
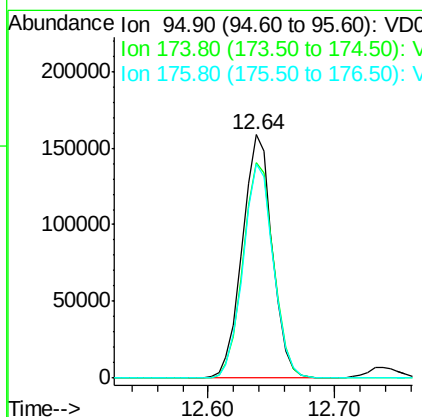
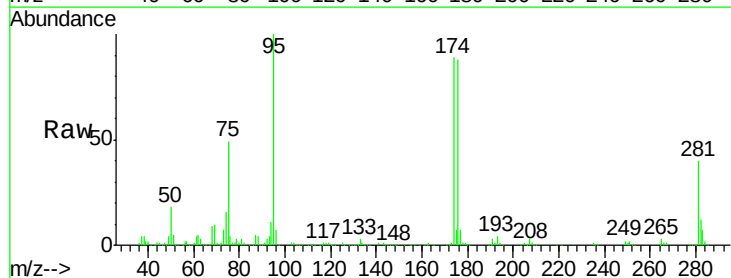
Manual Integrations
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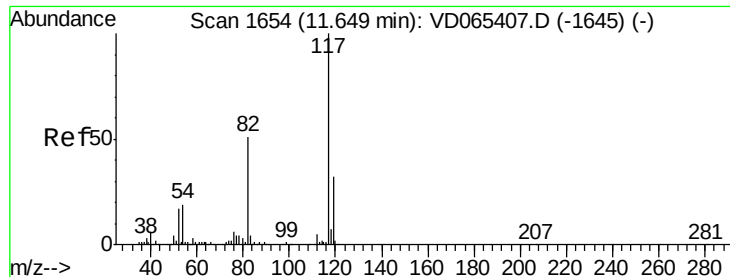
MMDadoda
 3/16/2020 2:05:28 PM



#62
 4-Bromofluorobenzene
 Concen: 53.602 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	176.8
176	88.8	0.0	171.4





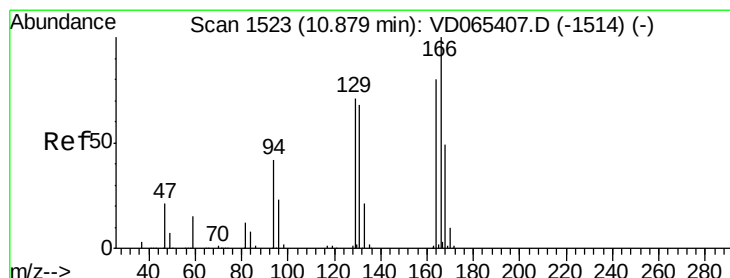
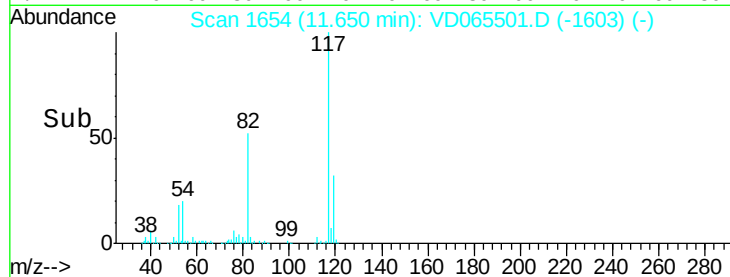
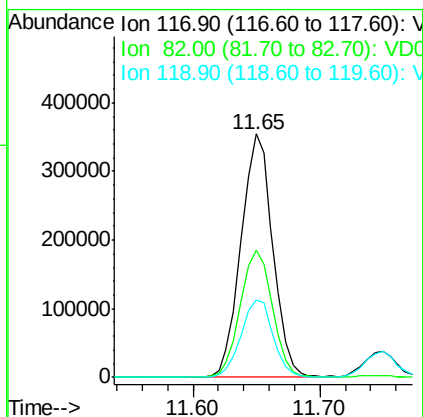
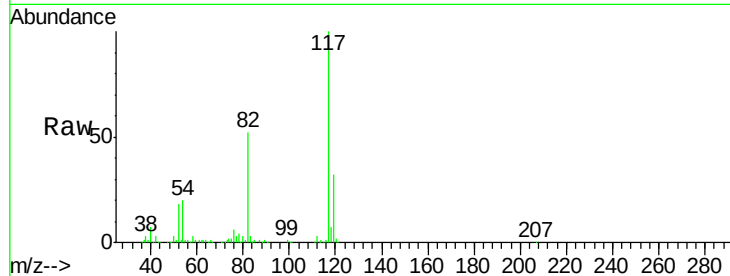
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	40.6	60.8
119	32.0	25.4	38.2

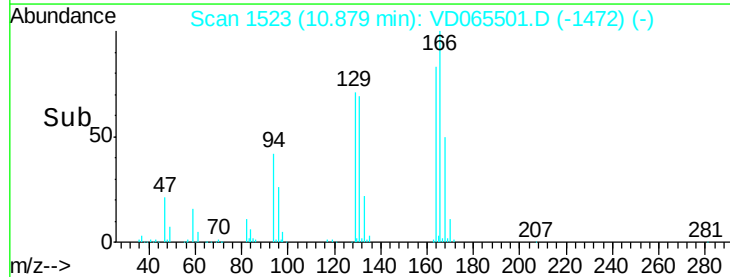
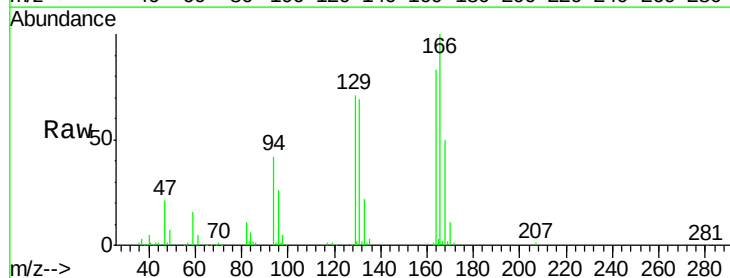
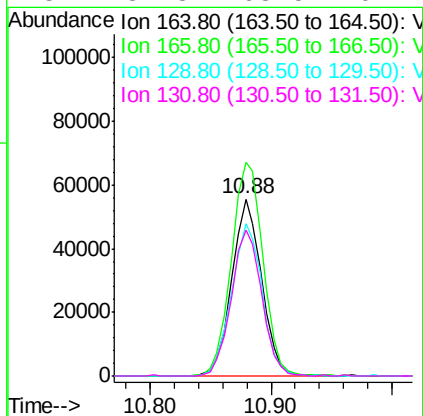
Manual Integrations
APPROVED

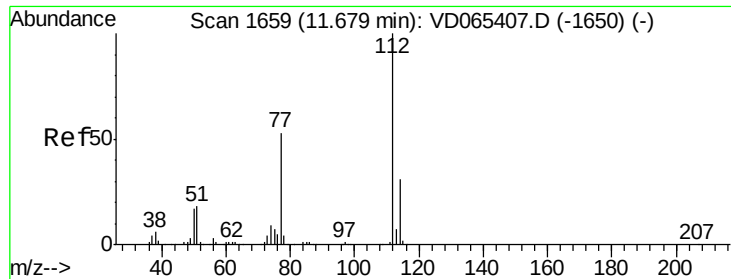
MMDadoda
3/16/2020 2:05:28 PM



#64
Tetrachloroethene
Concen: 21.519 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.7	100.5	150.7
129	85.7	71.5	107.3
131	82.8	68.5	102.7





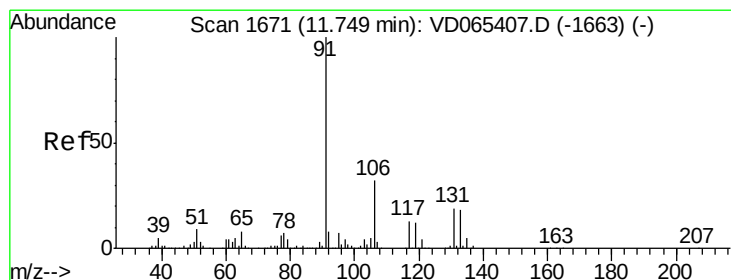
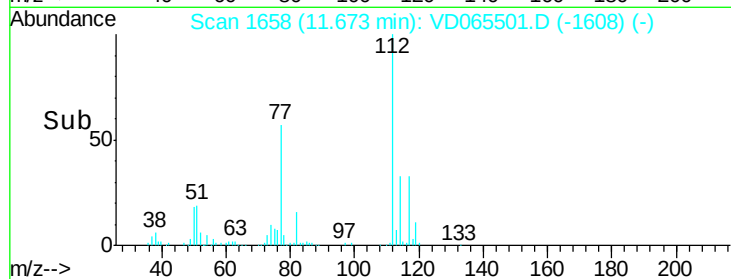
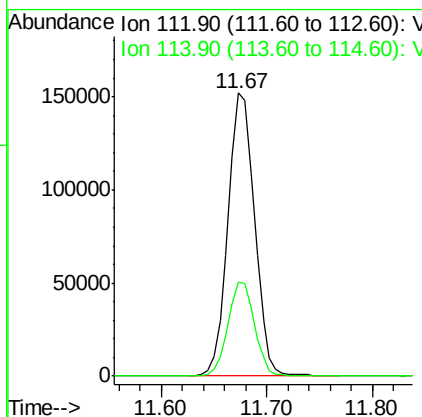
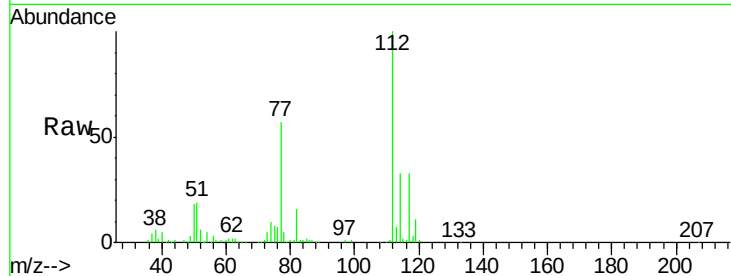
#65
Chlorobenzene
Concen: 21.590 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.3	24.4	36.6

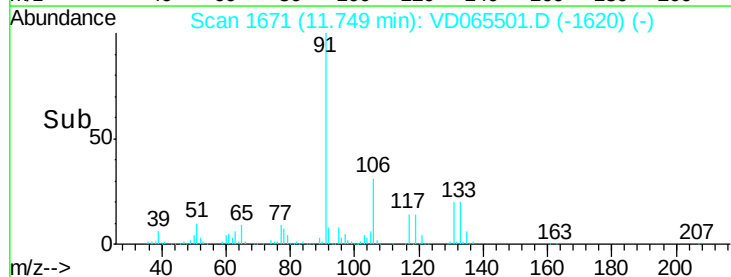
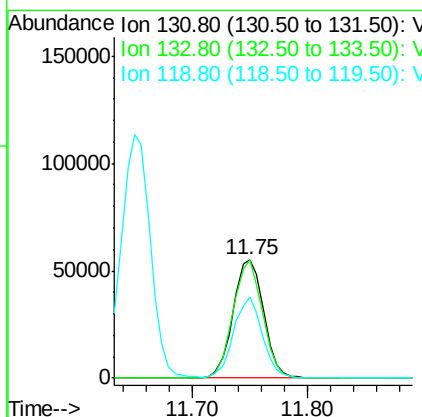
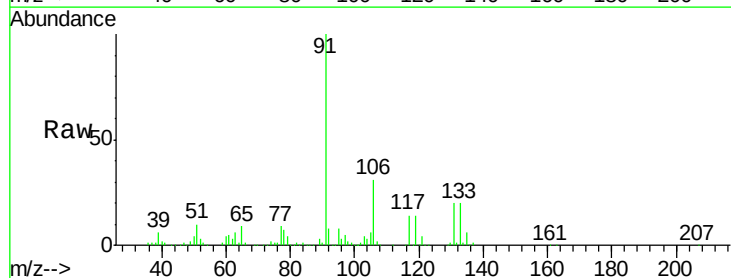
Manual Integrations
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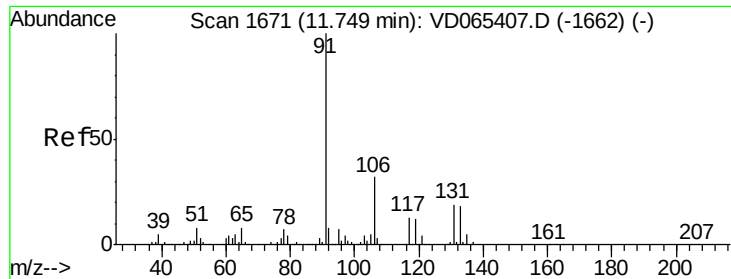
MMDadoda
3/16/2020 2:05:28 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.641 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	49.2	147.6
119	64.9	33.3	99.8





#67

Ethyl Benzene

Concen: 21.210 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 91 Resp: 448475

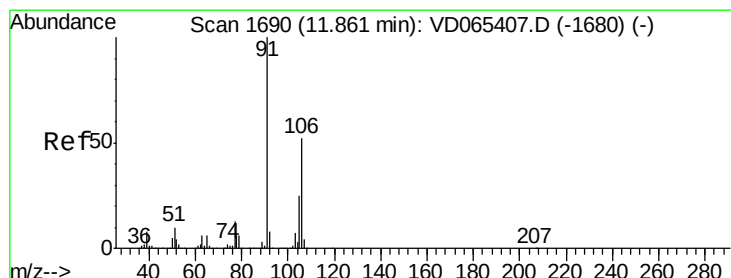
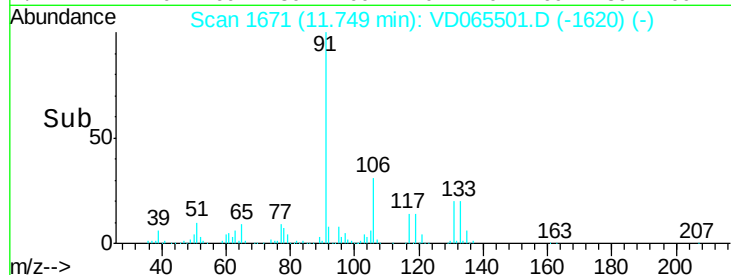
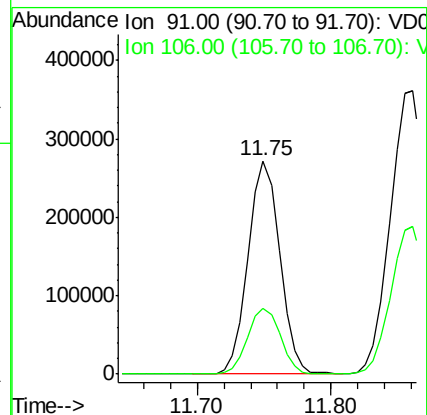
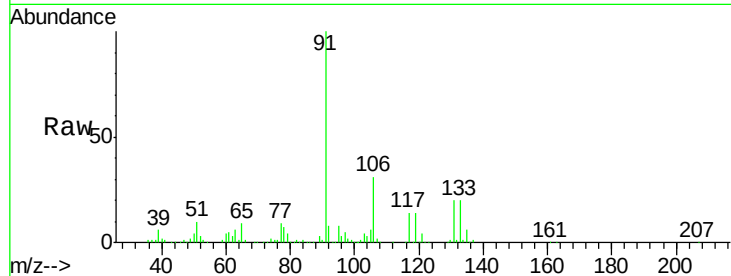
Ion Ratio Lower Upper

91 100

106 31.2 25.2 37.8

Manual Integrations
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3/16/2020 2:05:28 PM



#68

m/p-Xylenes

Concen: 44.279 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VD065501.D

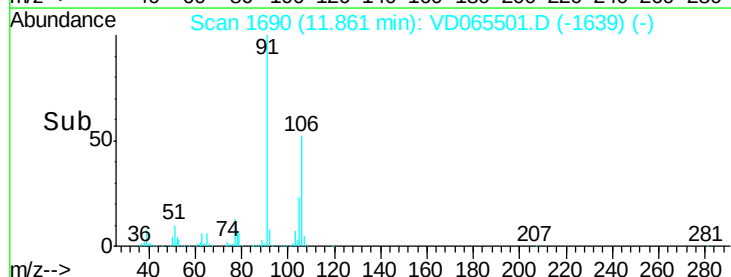
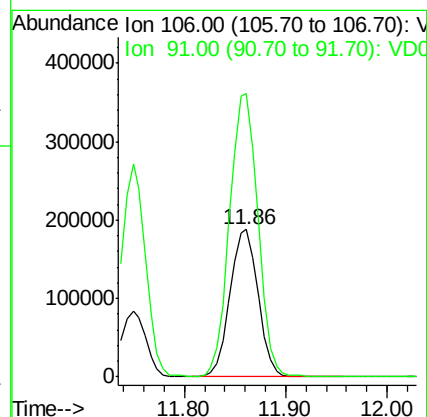
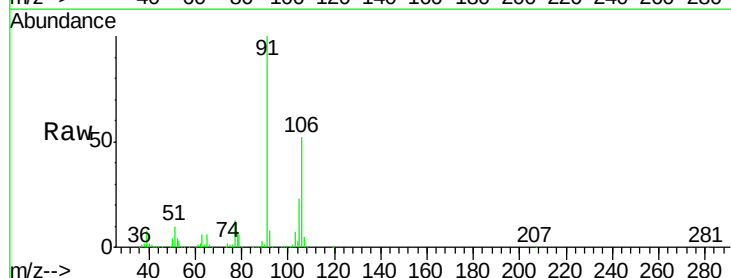
Acq: 13 Mar 2020 12:37

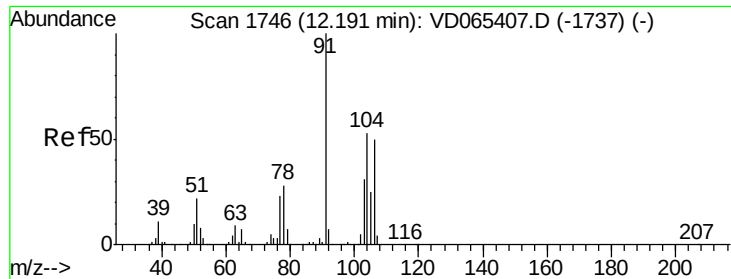
Tgt Ion: 106 Resp: 361008

Ion Ratio Lower Upper

106 100

91 194.4 155.9 233.9





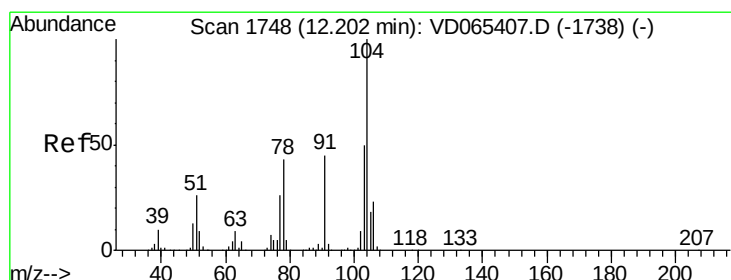
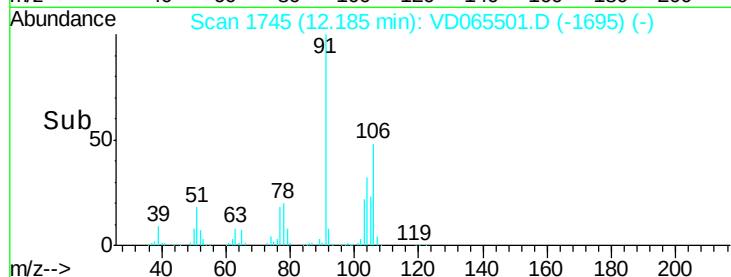
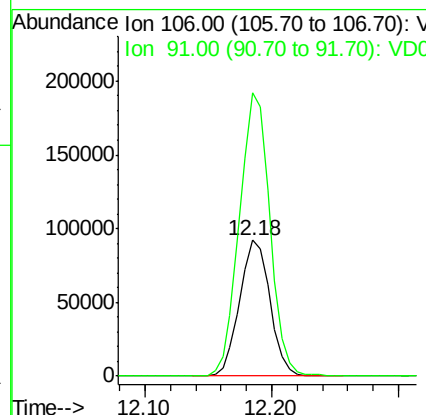
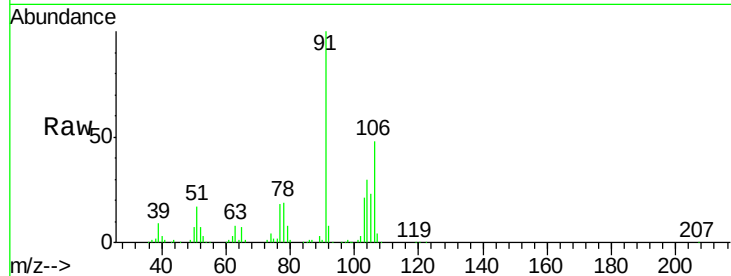
#69
o-Xylene
Concen: 21.359 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.7	103.5	310.3

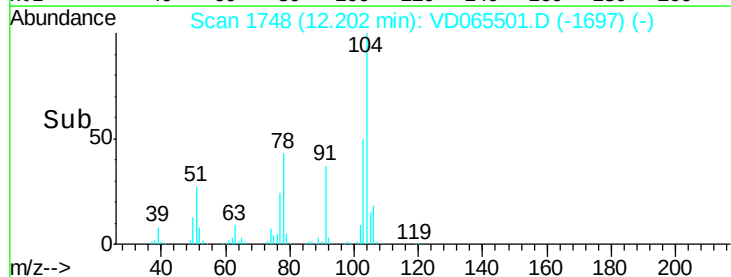
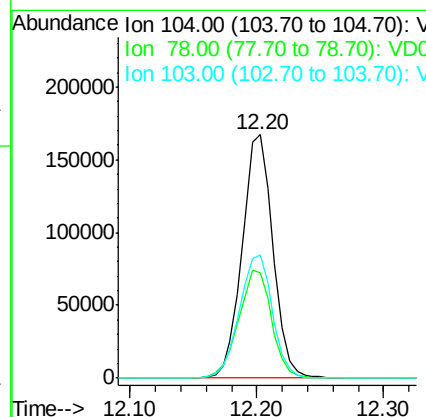
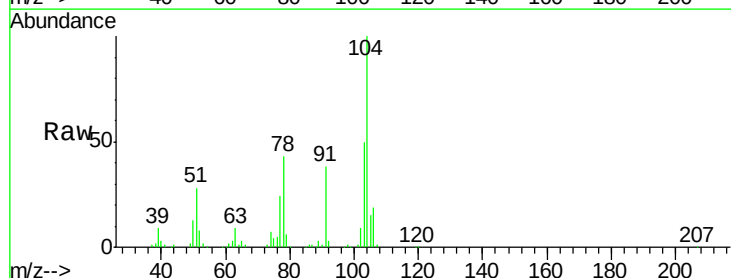
Manual Integrations
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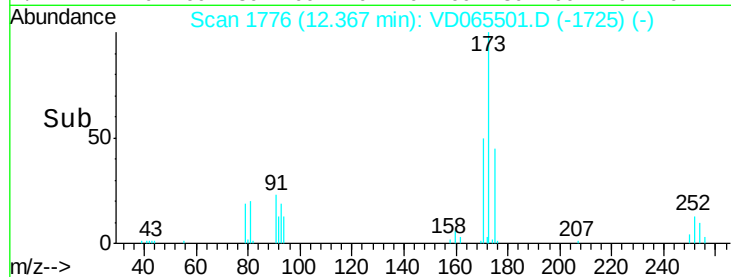
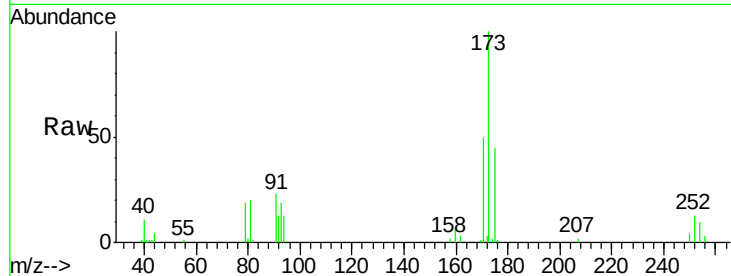
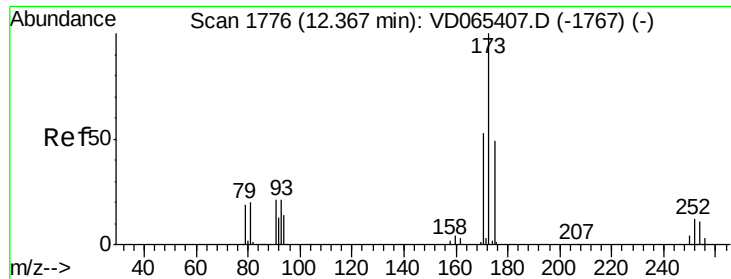
MMDadoda
3/16/2020 2:05:28 PM



#70
Styrene
Concen: 22.237 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.7	37.7	56.5
103	54.3	43.6	65.4





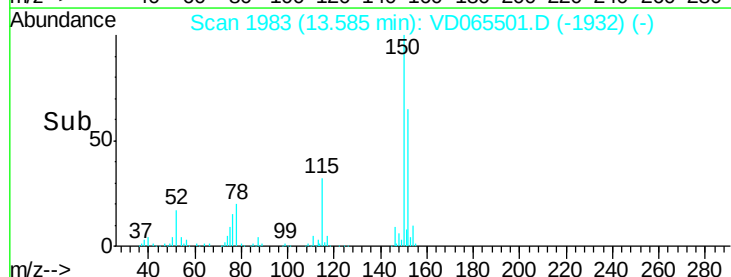
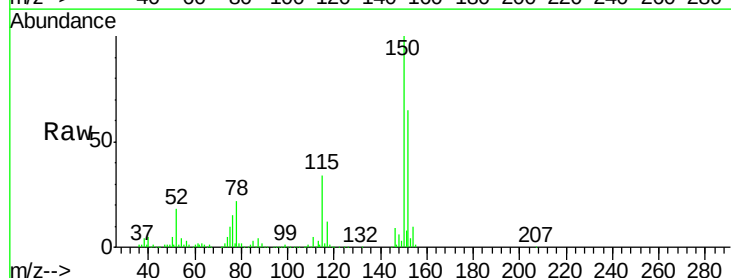
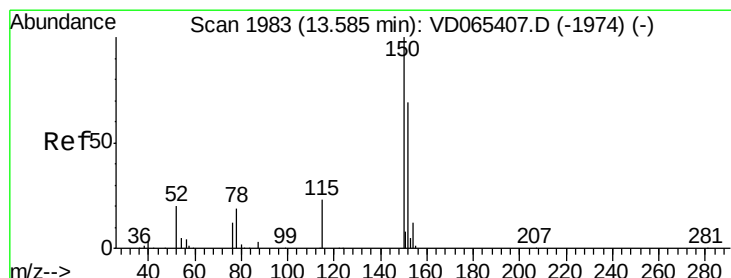
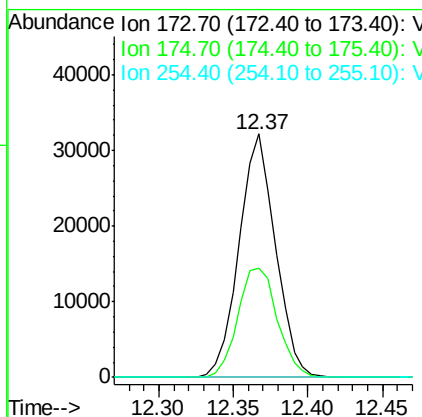
#71
Bromoform
Concen: 21.741 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	73.0
254	0.0	0.1	0.1#

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

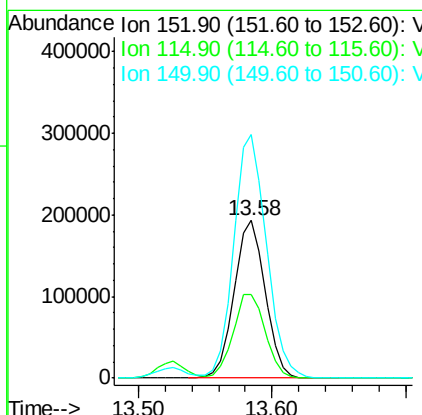
Manual Integrations
APPROVED

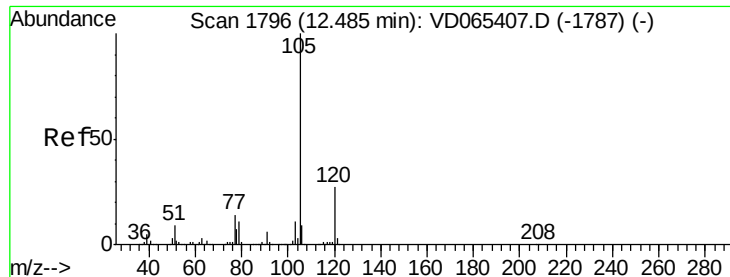
MMDadoda
3/16/2020 2:05:28 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.6	82.8
150	163.4	0.0	345.0





#73

Isopropylbenzene

Concen: 20.699 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBS01

Tot Ion: 105 Resp: 423405

Ion Ratio Lower Upper

105 100

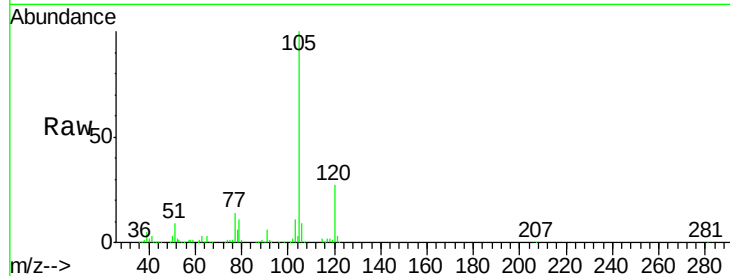
120 27.1 13.5 40.4

Manual Integrations

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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

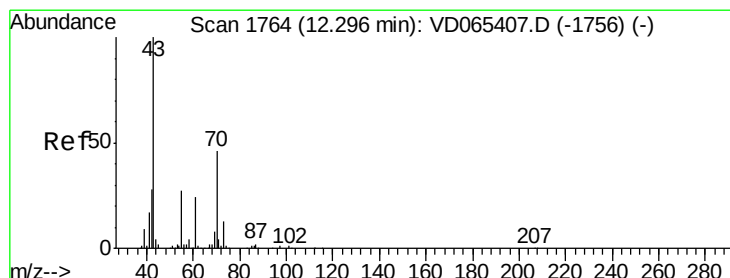
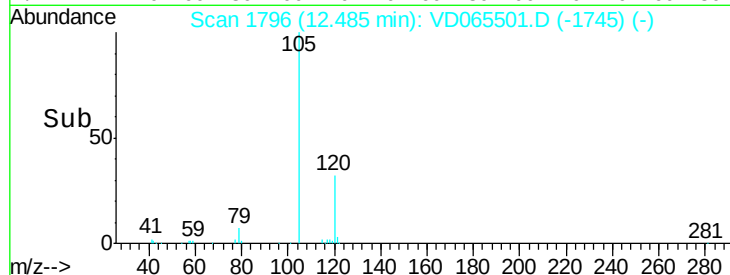
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 19.809 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion: 43 Resp: 82957

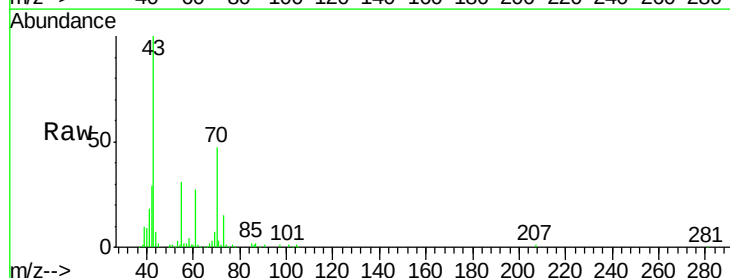
Ion Ratio Lower Upper

43 100

70 44.6 36.1 54.1

55 29.4 21.6 32.4

61 24.6 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.30

80000

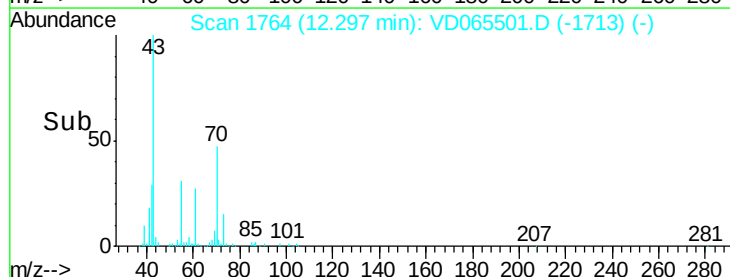
60000

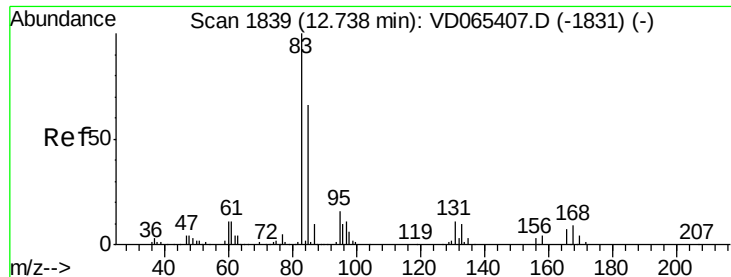
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.672 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

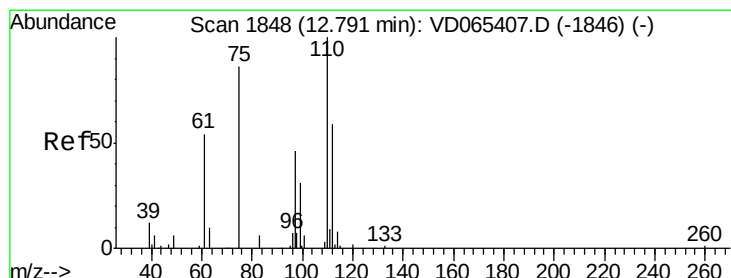
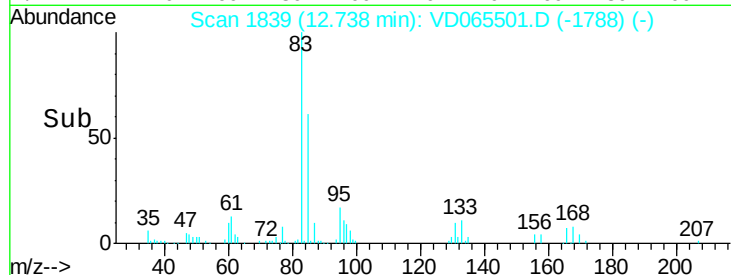
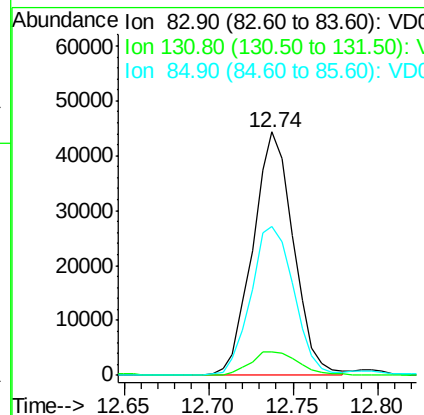
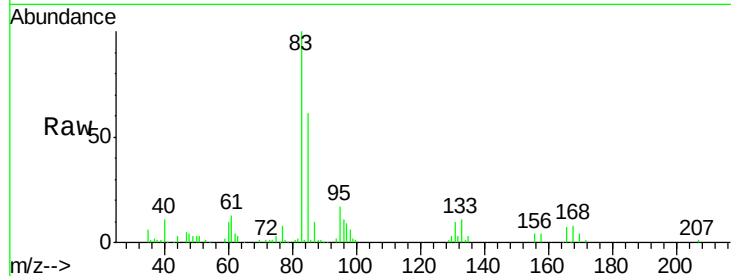
ClientSampleId :

VD0313SBSD01

Tot Ion:	83	Resp:	74330
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.4	16.2
85	65.1	33.0	98.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.030 ug/l m

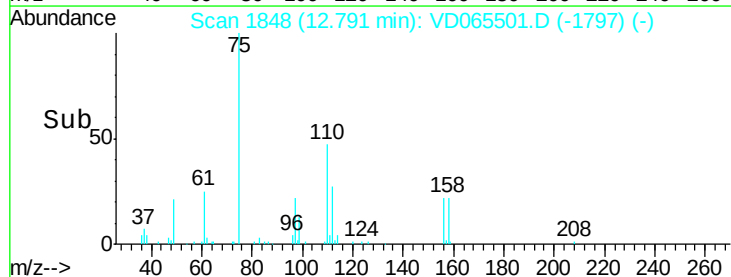
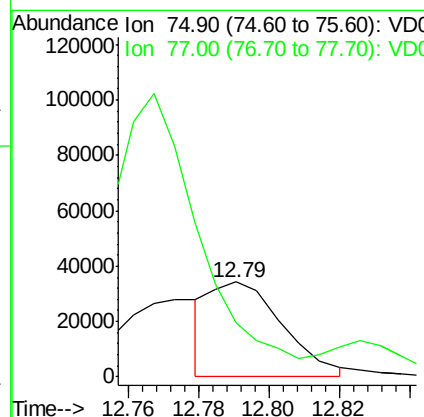
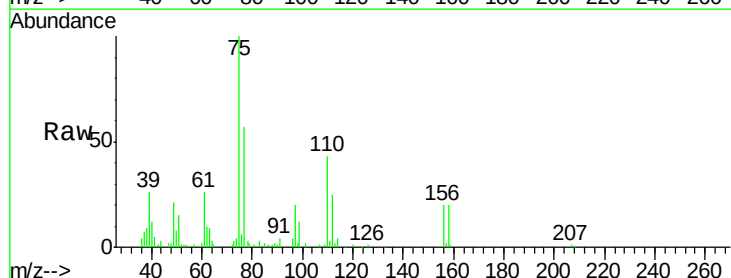
RT: 12.79 min Scan# 1848

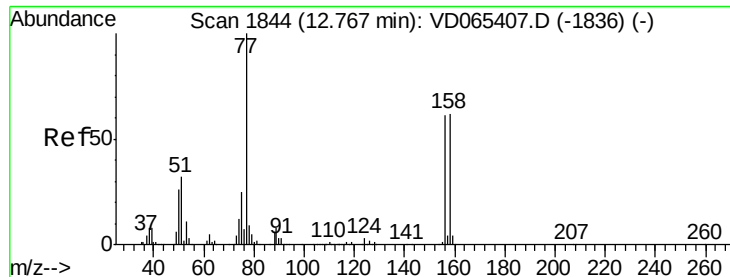
Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Tgt Ion:	75	Resp:	49153
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





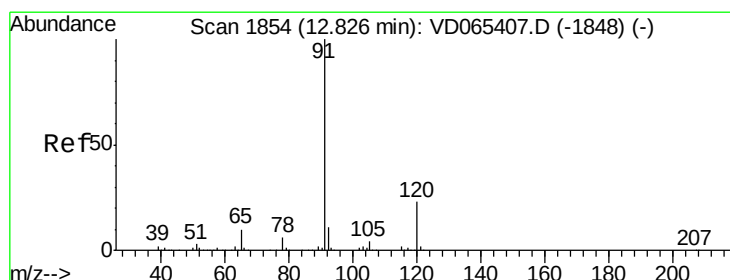
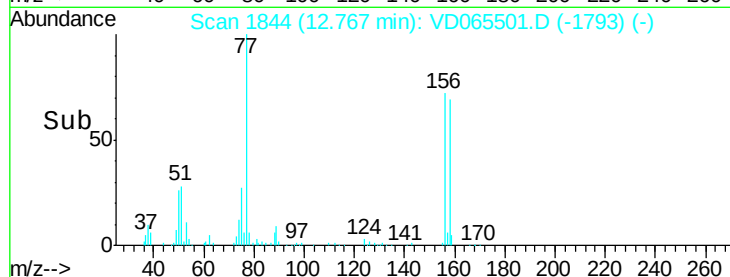
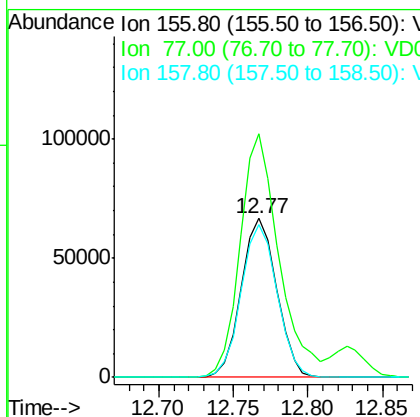
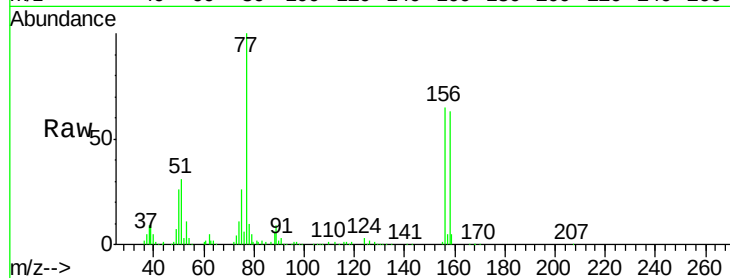
#77
Bromobenzene
Concen: 21.681 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
156	100	110186		
77	167.4	84.9	254.6	
158	97.4	49.0	147.2	

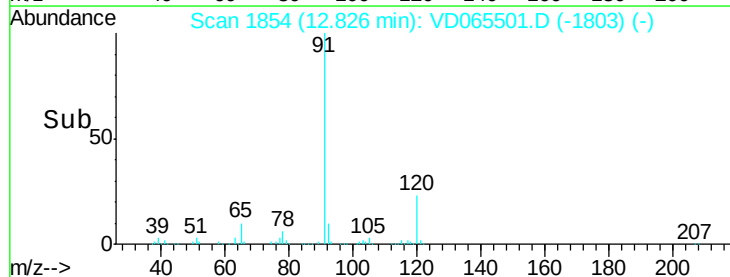
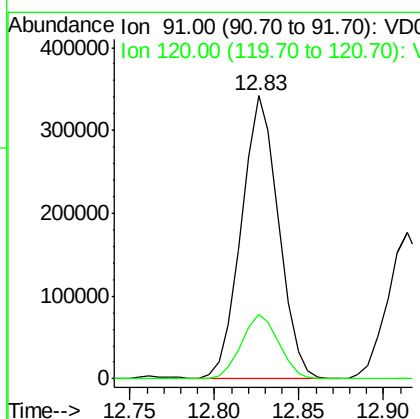
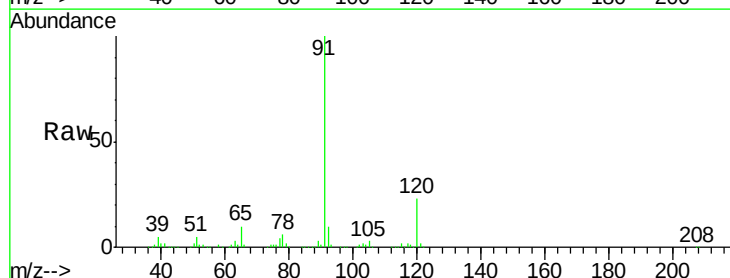
Manual Integrations
APPROVED

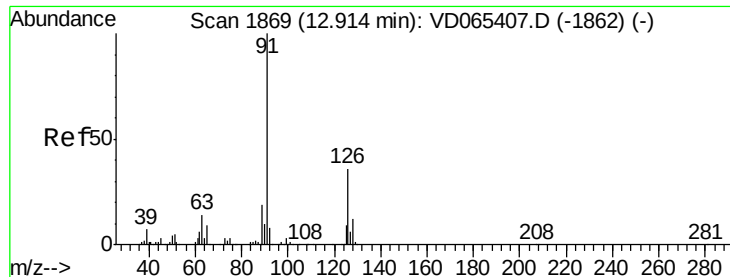
MMDadoda
3/16/2020 2:05:28 PM



#78
n-propylbenzene
Concen: 21.587 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	523941		
120	23.1	11.9	35.5	





#79

2-Chlorotoluene

Concen: 21.052 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313SBSD01

Tot Ion: 91 Resp: 287958

Ion Ratio Lower Upper

91 100

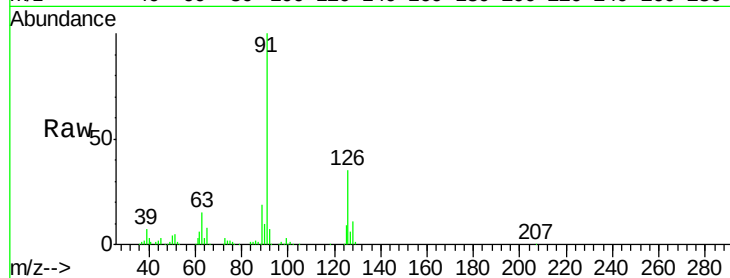
126 35.6 17.9 53.8

Manual Integrations

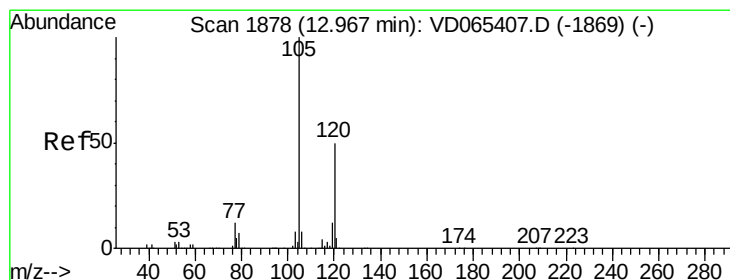
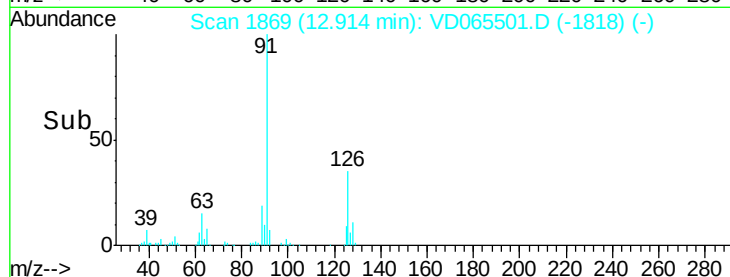
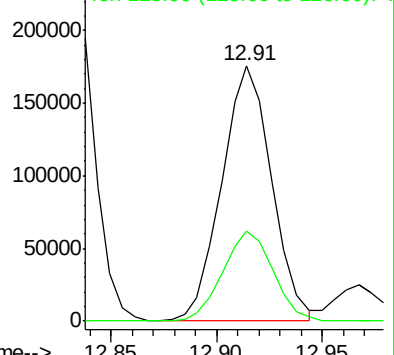
APPROVED

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3/16/2020 2:05:28 PM



Abundance Ion 91.00 (90.70 to 91.70): VD065407.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.399 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065501.D

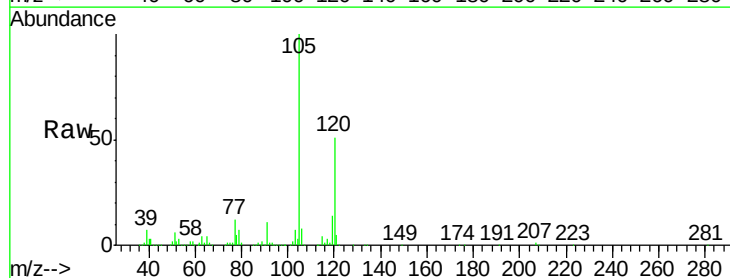
Acq: 13 Mar 2020 12:37

Tgt Ion: 105 Resp: 359869

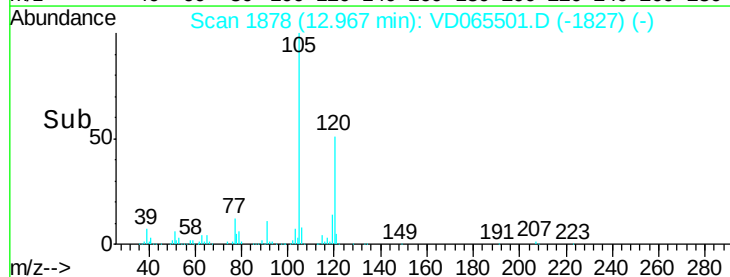
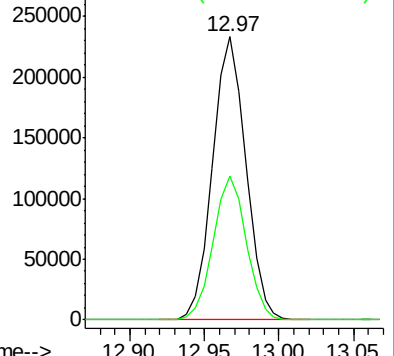
Ion Ratio Lower Upper

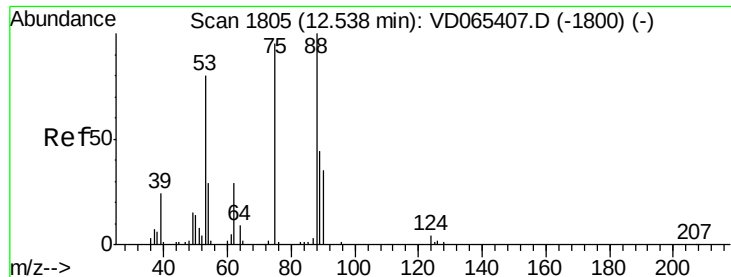
105 100

120 50.4 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): VD065407.D (-1869) (-)





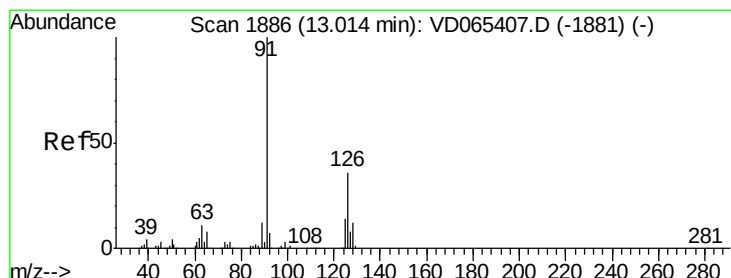
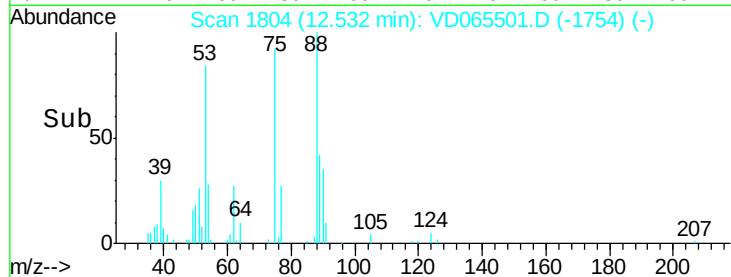
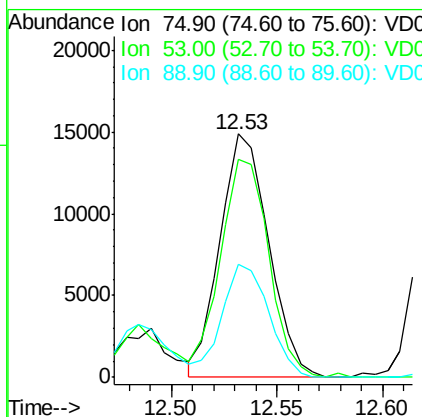
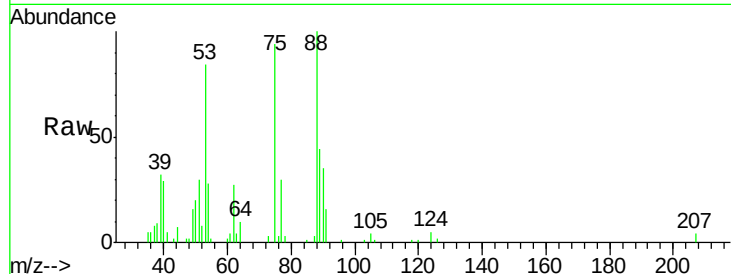
#81
trans-1,4-Dichloro-2-butene
Concen: 20.524 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.01 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.6	71.3	106.9
89	44.7	37.0	55.6

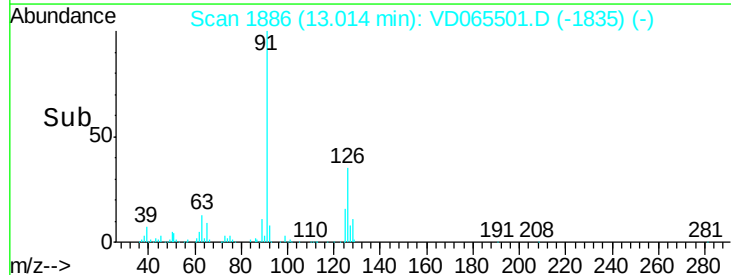
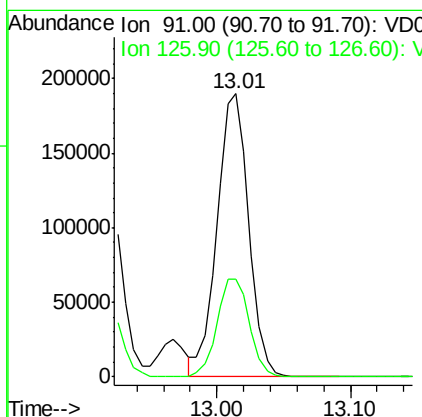
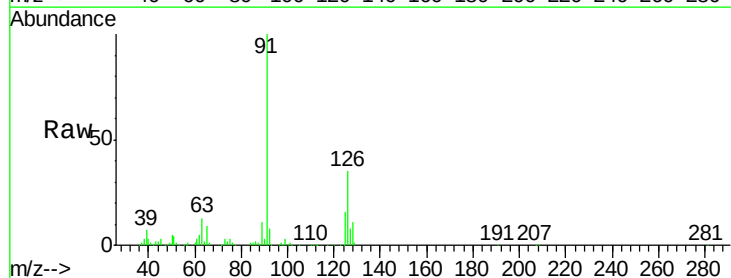
Manual Integrations
APPROVED

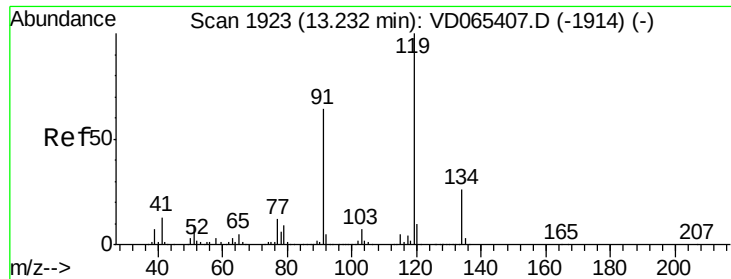
MMDadoda
3/16/2020 2:05:28 PM



#82
4-Chlorotoluene
Concen: 21.948 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.6	52.8





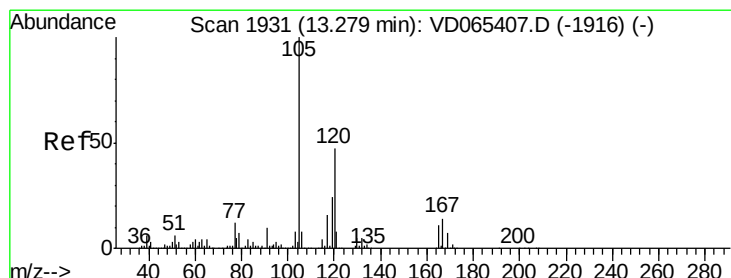
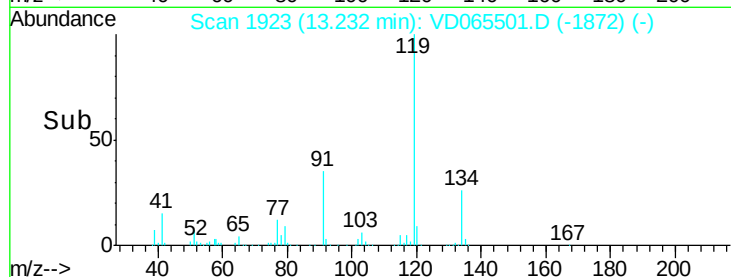
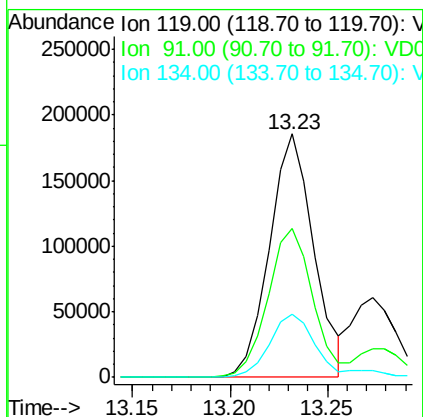
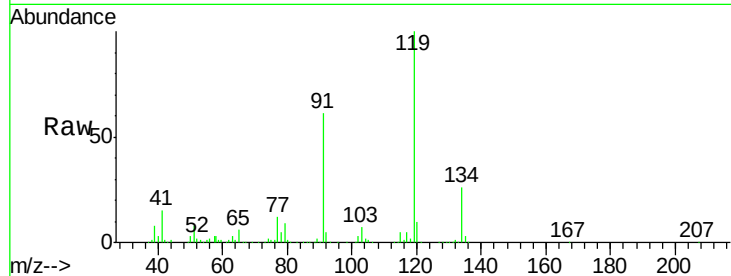
#83
 tert-Butylbenzene
 Concen: 20.561 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	292530		
91	62.8		31.6	95.0
134	28.5		14.2	42.8

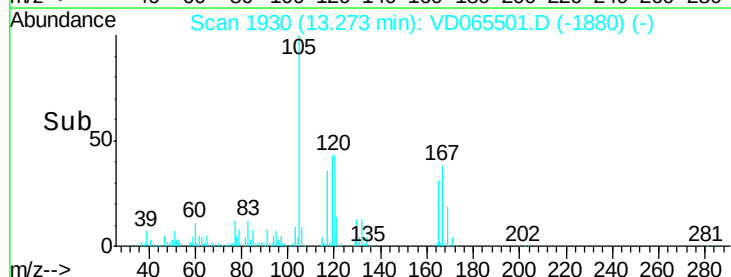
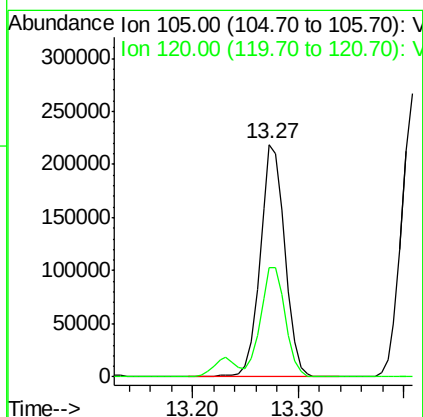
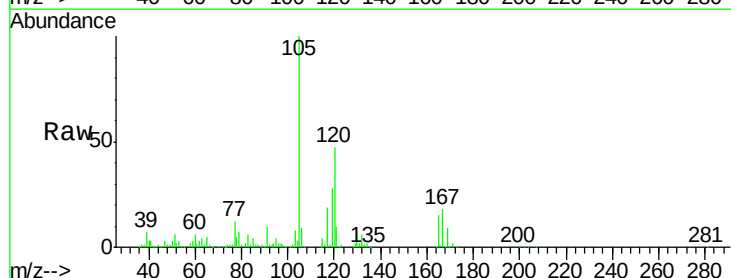
Manual Integrations
 APPROVED

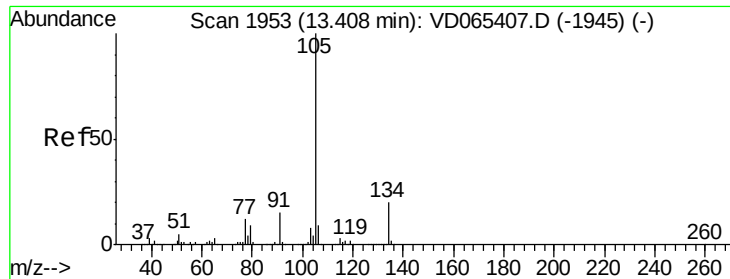
MMDadoda
 3/16/2020 2:05:28 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.395 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	354661		
120	47.3		23.4	70.3





#85

sec-Butylbenzene

Concen: 20.820 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

Instrument :

MSVOA_D

ClientSampleId :

VD0313BSD01

Tot Ion:105 Resp: 422813

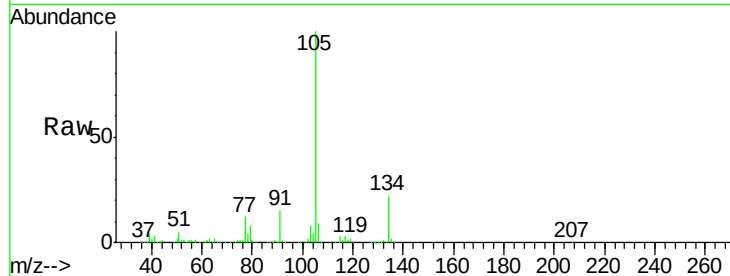
Ion Ratio Lower Upper

105 100

134 21.1 10.3 30.9

Manual Integrations
APPROVED

MMDadoda
3/16/2020 2:05:28 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

250000

200000

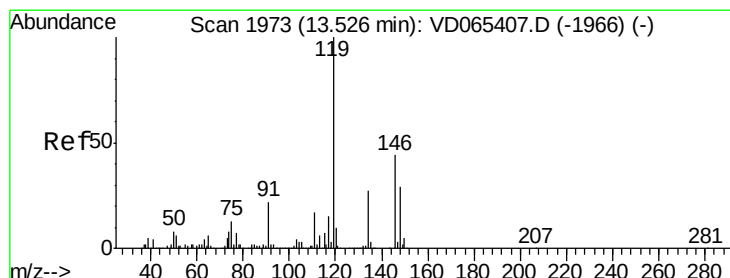
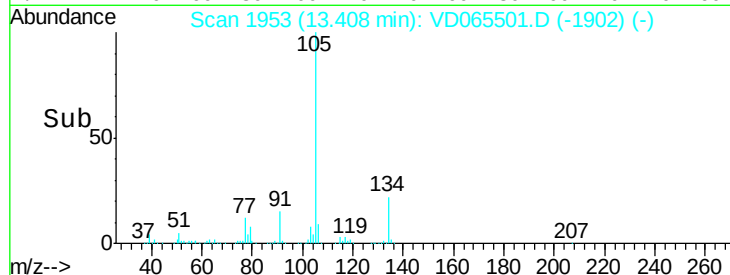
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.169 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065501.D

Acq: 13 Mar 2020 12:37

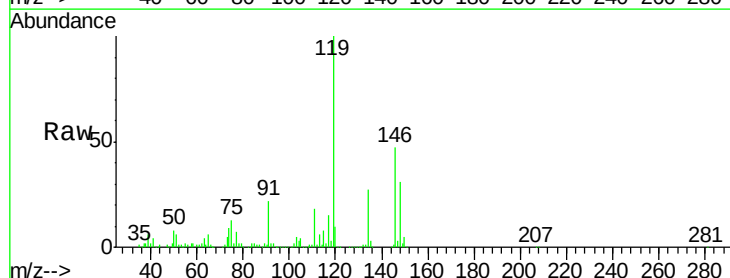
Tgt Ion:119 Resp: 392285

Ion Ratio Lower Upper

119 100

134 26.7 13.3 39.9

91 22.1 10.9 32.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.53

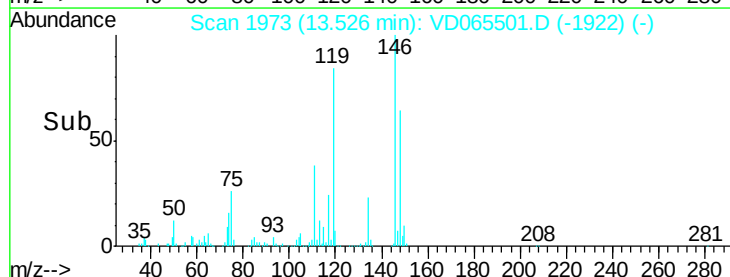
300000

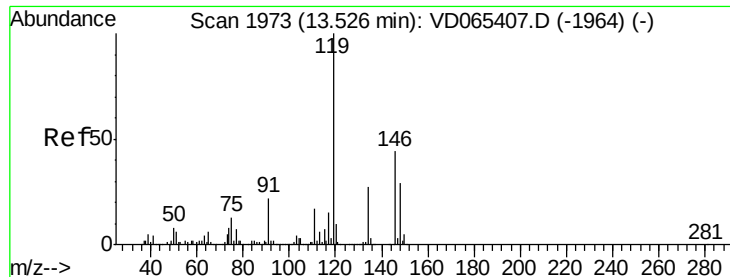
200000

100000

0

Time-->





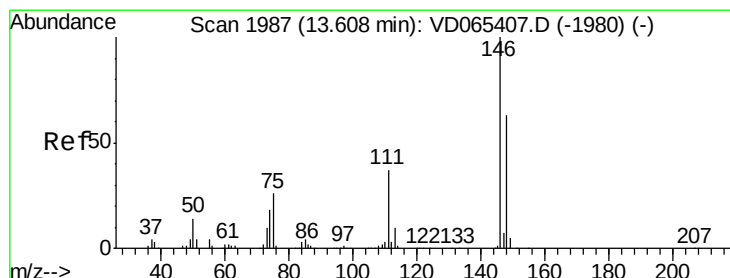
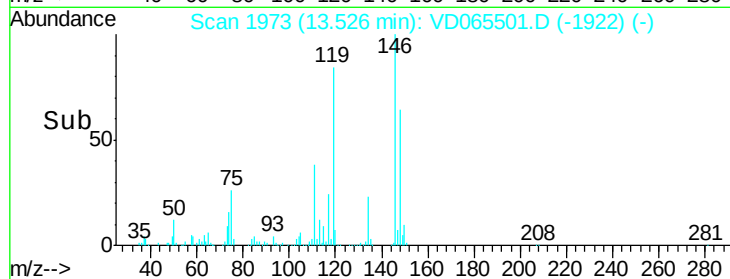
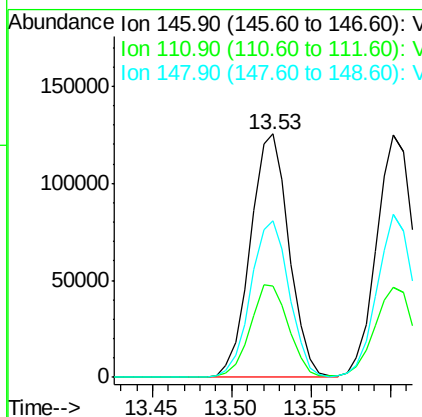
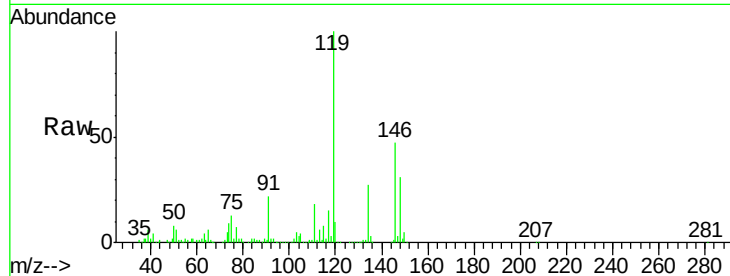
#87
 1,3-Dichlorobenzene
 Concen: 21.729 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	64.1	32.3	96.8

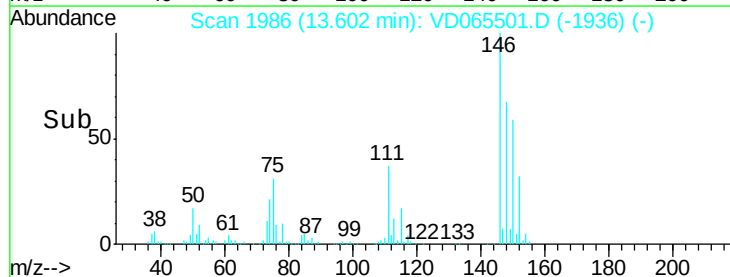
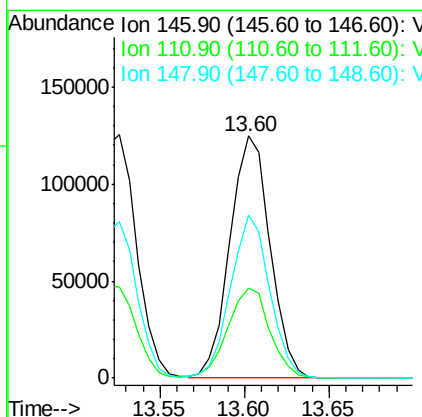
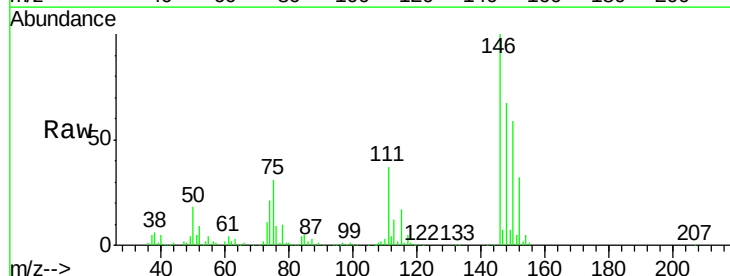
Manual Integrations
 APPROVED

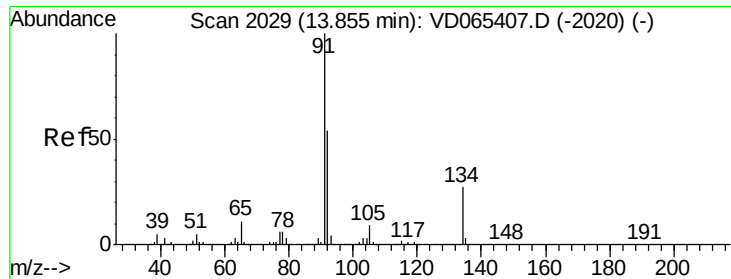
MMDadoda
 3/16/2020 2:05:28 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.281 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	18.5	55.5
148	65.6	32.0	96.0





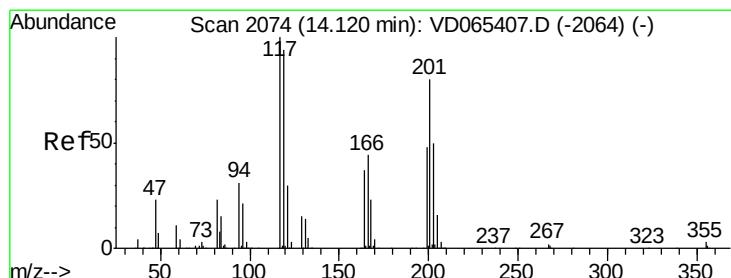
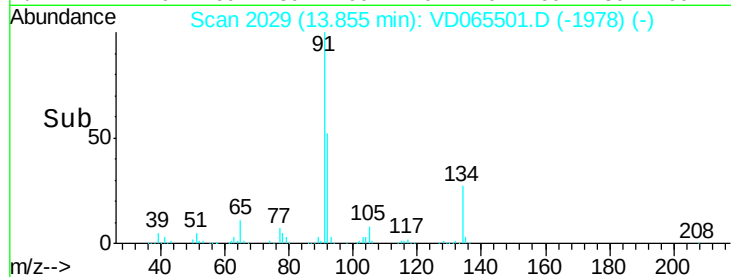
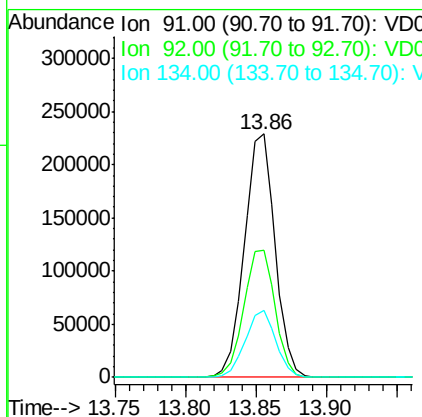
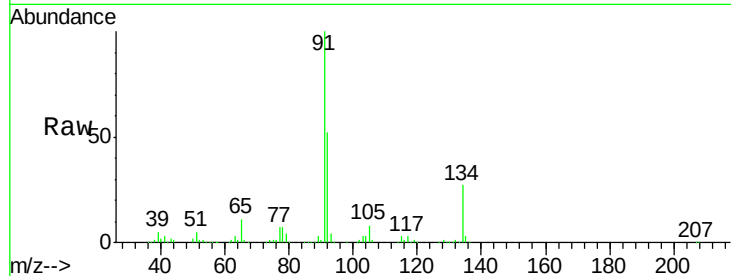
#89
n-Butylbenzene
Concen: 20.332 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		348325		
92	53.4	26.8		80.4	
134	27.2	13.4		40.2	

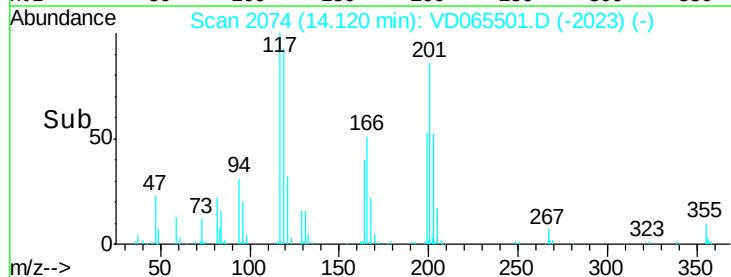
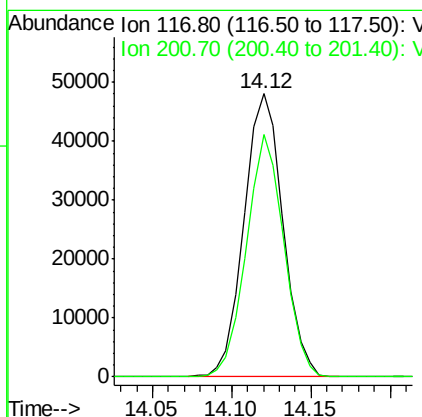
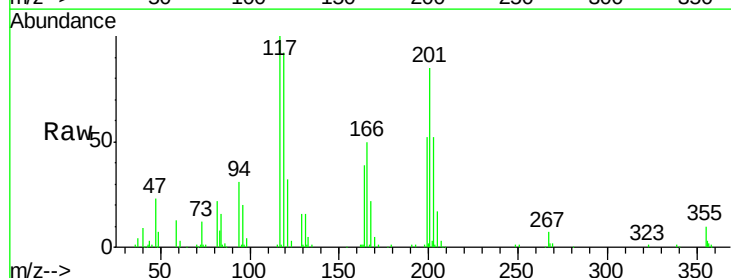
Manual Integrations
APPROVED

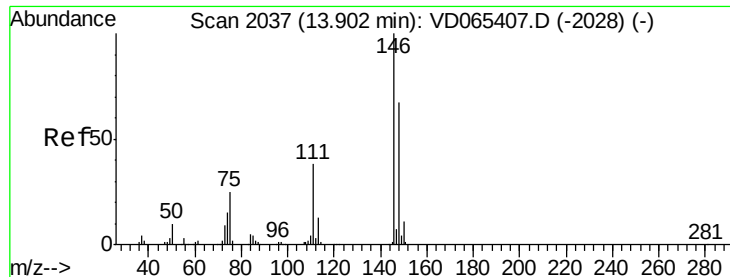
MMDadoda
3/16/2020 2:05:28 PM



#90
Hexachloroethane
Concen: 21.506 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		82073		
201	82.2	41.9		125.6	





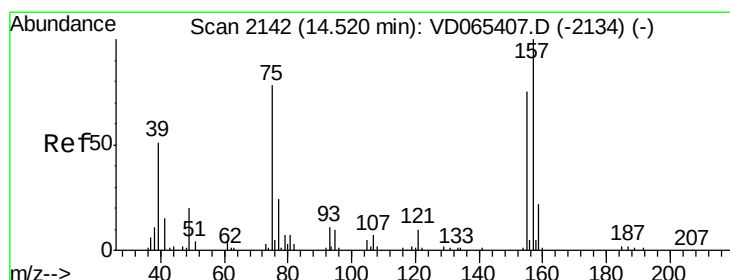
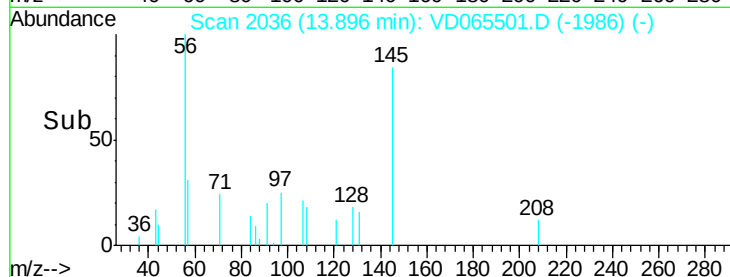
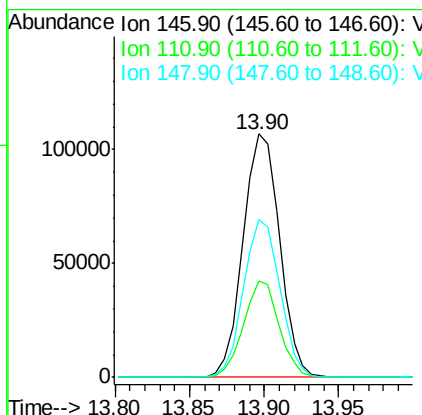
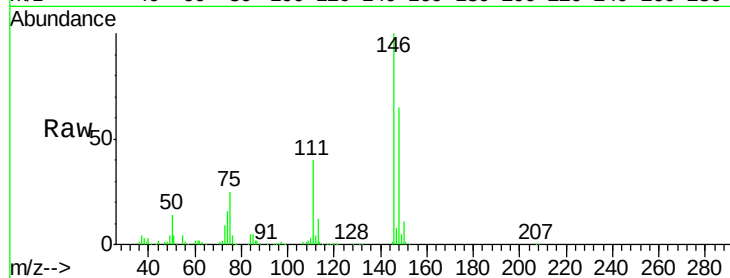
#91
 1,2-Dichlorobenzene
 Concen: 21.813 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.8	59.3
148	64.6	32.6	97.8

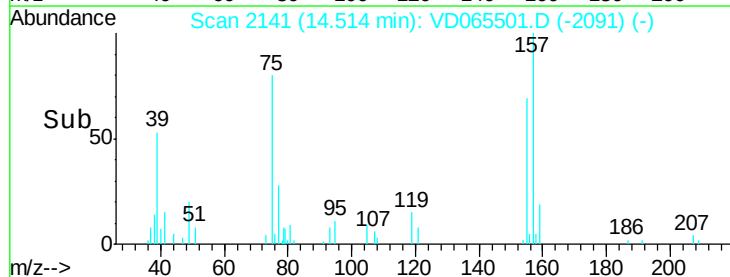
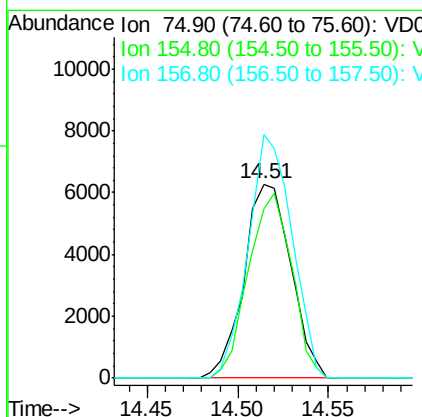
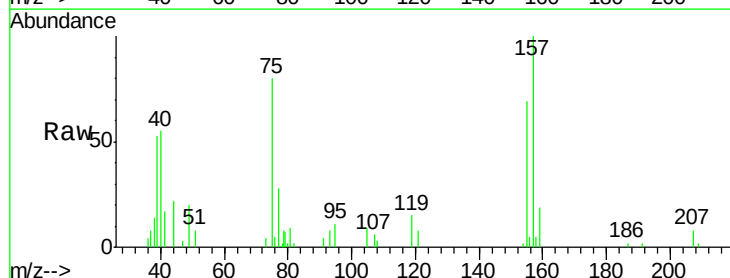
Manual Integrations
 APPROVED

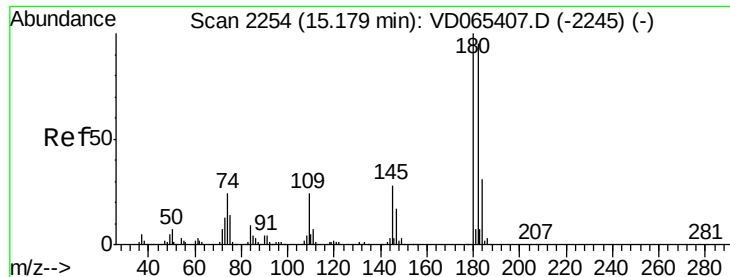
MMDadoda
 3/16/2020 2:05:28 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.608 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.4	46.4	139.1
157	117.2	60.2	180.4





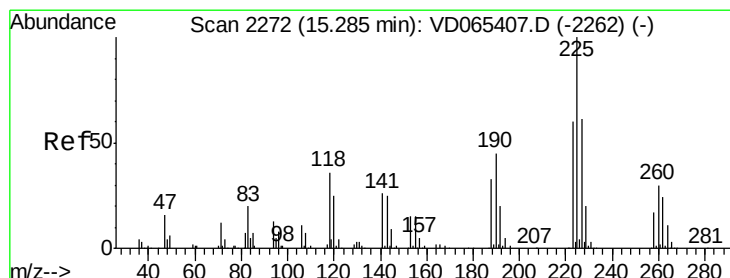
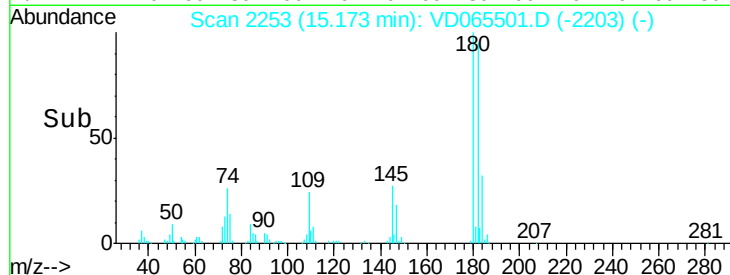
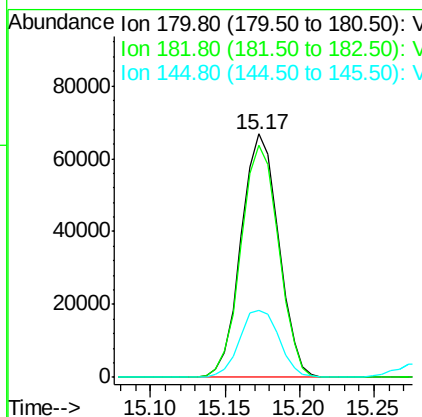
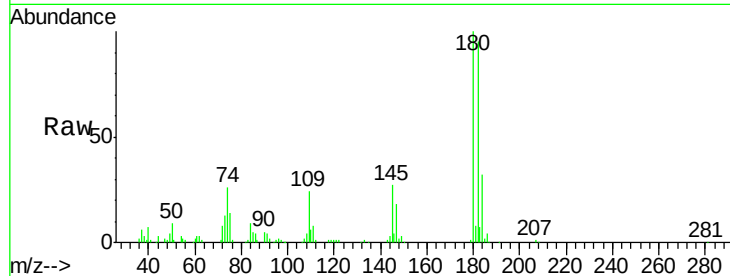
#93
 1,2,4-Trichlorobenzene
 Concen: 20.676 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0313SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	48.3	144.9	
145	29.1	14.4	43.4	

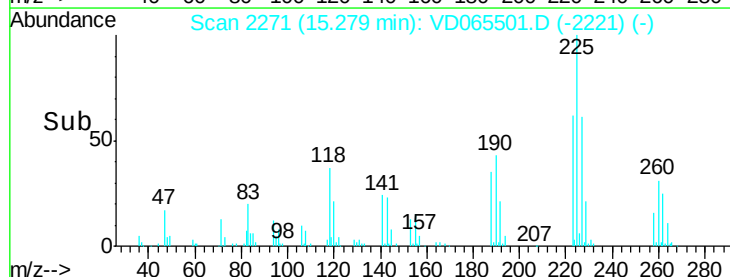
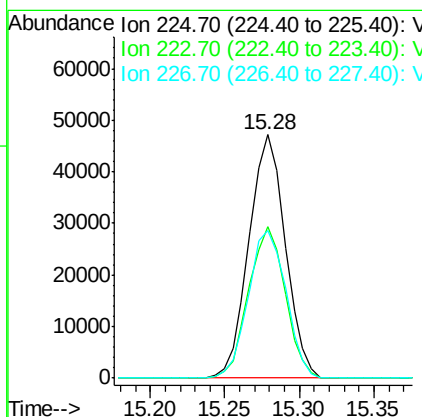
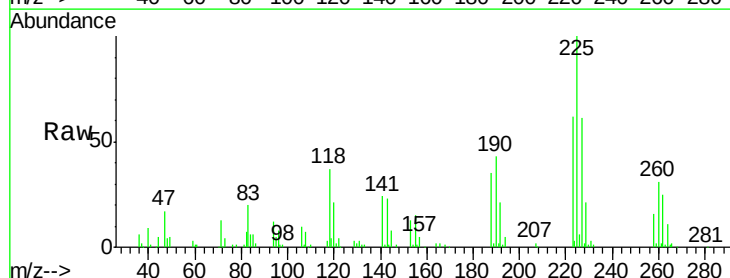
Manual Integrations
 APPROVED

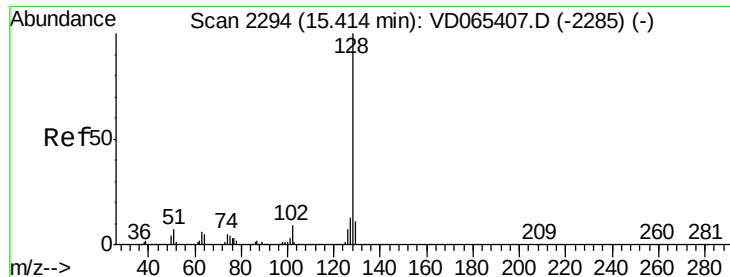
MMDadoda
 3/16/2020 2:05:28 PM



#94
 Hexachlorobutadiene
 Concen: 21.497 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: VD065501.D
 Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.3	30.9	92.5	
227	62.8	31.6	94.7	





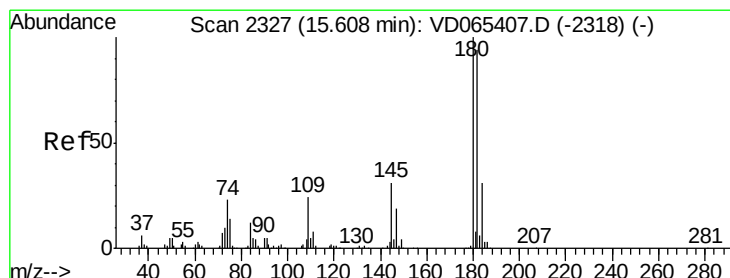
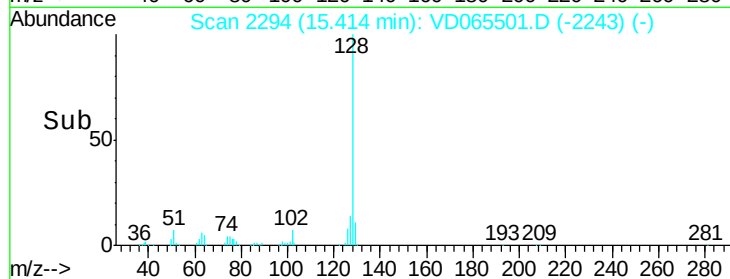
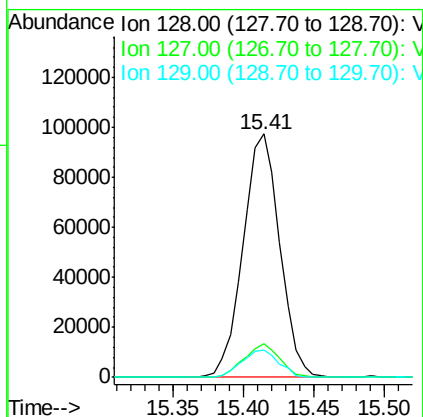
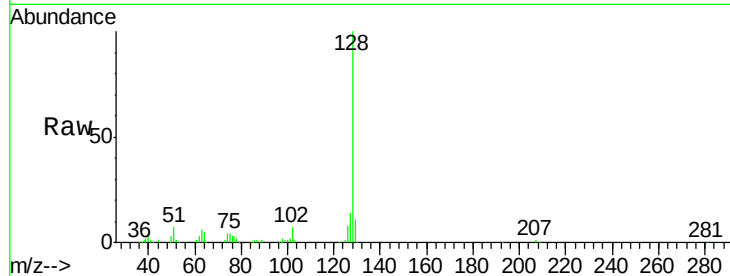
#95
Naphthalene
Concen: 20.536 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Instrument :
MSVOA_D
ClientSampleId :
VD0313SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.4	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/16/2020 2:05:28 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.142 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065501.D
Acq: 13 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.9	140.6
145	29.5	15.0	45.1

