

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021420\
 Data File : VD065187.D
 Acq On : 14 Feb 2020 14:53
 Operator : VA/SY
 Sample : VD0214SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/17/2020 10:35:13 AM

Quant Time: Feb 15 00:38:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	431122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	654646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	584967	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	276417	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	208740	56.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.94%	
35) Dibromofluoromethane	7.92	113	219474	60.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.18%	
50) Toluene-d8	10.34	98	834710	57.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.84%	
62) 4-Bromofluorobenzene	12.64	95	258856	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	77421	21.580	ug/l	99
3) Chloromethane	2.21	50	97499	23.086	ug/l	95
4) Vinyl Chloride	2.35	62	102639	22.980	ug/l	100
5) Bromomethane	2.77	94	59644	20.595	ug/l	99
6) Chloroethane	2.92	64	63512	22.924	ug/l	98
7) Trichlorofluoromethane	3.27	101	144617	22.249	ug/l	99
8) Diethyl Ether	3.71	74	40004	21.439	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.09	101	90232	22.708	ug/l	100
10) Methyl Iodide	4.30	142	93754	20.672	ug/l	99
11) Tert butyl alcohol	5.26	59	21986	98.206	ug/l	94
12) 1,1-Dichloroethene	4.06	96	85401	22.441	ug/l	97
13) Acrolein	3.92	56	20767	75.417	ug/l	99
14) Allyl chloride	4.71	41	138249	21.858	ug/l	97
15) Acrylonitrile	5.43	53	87717	107.525	ug/l	99
16) Acetone	4.16	43	87480	95.491	ug/l	96
17) Carbon Disulfide	4.40	76	273890	22.415	ug/l	99
18) Methyl Acetate	4.73	43	46797	24.450	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	172606	20.511	ug/l	94
20) Methylene Chloride	4.96	84	109610	25.220	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	96271	22.360	ug/l	91
22) Diisopropyl ether	6.37	45	275467	23.090	ug/l	97
23) Vinyl Acetate	6.31	43	685315	103.061	ug/l	99
24) 1,1-Dichloroethane	6.27	63	164678	22.805	ug/l	97
25) 2-Butanone	7.22	43	111896	102.396	ug/l	97
26) 2,2-Dichloropropane	7.21	77	146426	22.623	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	100871	22.053	ug/l	99
28) Bromochloromethane	7.54	49	57000	20.823	ug/l	99
29) Tetrahydrofuran	7.57	42	68332	103.401	ug/l	97
30) Chloroform	7.71	83	169011	23.506	ug/l	97
31) Cyclohexane	7.99	56	156376	21.453	ug/l	95
32) 1,1,1-Trichloroethane	7.90	97	152849	22.821	ug/l	99
36) 1,1-Dichloropropene	8.11	75	134976	22.174	ug/l	99
37) Ethyl Acetate	7.30	43	50083	20.139	ug/l	98
38) Carbon Tetrachloride	8.10	117	139877	22.499	ug/l	96

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MMDadoda
 2/17/2020 10:35:13 AM

Quant Time: Feb 15 00:38:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	151333	20.141	ug/l	99
40) Benzene	8.36	78	378905	22.541	ug/l	97
41) Methacrylonitrile	7.53	41	28601	20.876	ug/l #	87
42) 1,2-Dichloroethane	8.43	62	101654	21.223	ug/l	99
43) Isopropyl Acetate	8.46	43	95241	20.021	ug/l	98
44) Trichloroethene	9.11	130	103356	21.421	ug/l	99
45) 1,2-Dichloropropane	9.39	63	92440	22.936	ug/l	96
46) Dibromomethane	9.48	93	46094	21.765	ug/l	98
47) Bromodichloromethane	9.67	83	125639	22.515	ug/l	98
48) Methyl methacrylate	9.46	41	44857	19.596	ug/l	98
49) 1,4-Dioxane	9.47	88	9857	392.957	ug/l	93
51) 4-Methyl-2-Pentanone	10.23	43	239659	102.350	ug/l	100
52) Toluene	10.41	92	239454	22.319	ug/l	97
53) t-1,3-Dichloropropene	10.63	75	115860	21.325	ug/l	98
54) cis-1,3-Dichloropropene	10.10	75	141661	21.801	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	65568	22.571	ug/l	98
56) Ethyl methacrylate	10.67	69	72072	19.609	ug/l	98
57) 1,3-Dichloropropane	10.95	76	113511	22.222	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	115728	84.898	ug/l	99
59) 2-Hexanone	10.99	43	166373	100.311	ug/l	97
60) Dibromochloromethane	11.14	129	83263	22.129	ug/l	96
61) 1,2-Dibromoethane	11.25	107	61277	21.588	ug/l	99
64) Tetrachloroethene	10.88	164	87576	20.835	ug/l	98
65) Chlorobenzene	11.68	112	248204	21.937	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	90135	21.585	ug/l	96
67) Ethyl Benzene	11.75	91	437336	21.276	ug/l	98
68) m/p-Xylenes	11.86	106	340246	43.368	ug/l	99
69) o-Xylene	12.19	106	148101	20.963	ug/l	99
70) Styrene	12.20	104	264394	21.532	ug/l	99
71) Bromoform	12.37	173	49102	21.846	ug/l #	98
73) Isopropylbenzene	12.48	105	406325	21.417	ug/l	99
74) N-amyl acetate	12.30	43	84995	20.611	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	69370	23.232	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	46163m	22.058	ug/l	
77) Bromobenzene	12.77	156	101316	22.165	ug/l	99
78) n-propylbenzene	12.83	91	494643	22.263	ug/l	100
79) 2-Chlorotoluene	12.91	91	273696	22.100	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	335066	21.588	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	21955	20.981	ug/l	94
82) 4-Chlorotoluene	13.01	91	291996	22.449	ug/l	100
83) tert-Butylbenzene	13.23	119	277006	20.687	ug/l	100
84) 1,2,4-Trimethylbenzene	13.28	105	335358	21.763	ug/l	98
85) sec-Butylbenzene	13.41	105	394643	21.578	ug/l	100
86) p-Isopropyltoluene	13.53	119	364596	21.456	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	188829	22.064	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	187503	22.012	ug/l	99
89) n-Butylbenzene	13.86	91	338092	21.556	ug/l	99
90) Hexachloroethane	14.12	117	71896	22.344	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	161088	21.975	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	10301	21.133	ug/l	98

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	108377	20.685	ug/l	98
94) Hexachlorobutadiene	15.28	225	67951	21.092	ug/l	99
95) Naphthalene	15.41	128	158738	18.228	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	90668	20.231	ug/l	100

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

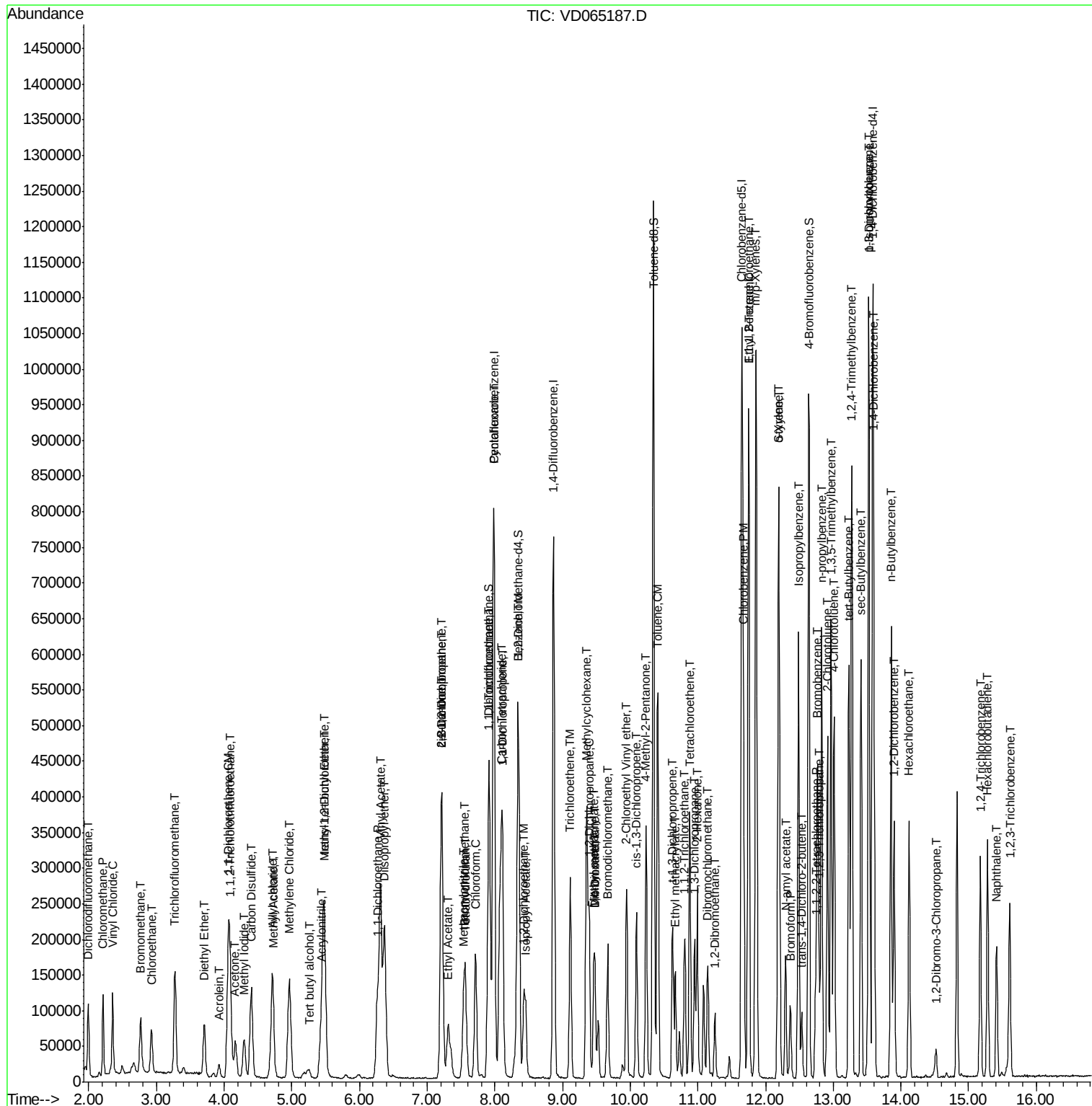
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD021420\
Data File : VD065187.D
Acq On : 14 Feb 2020 14:53
Operator : VA/SY
Sample : VD0214SBSD01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 1 Sample Multiplier: 1

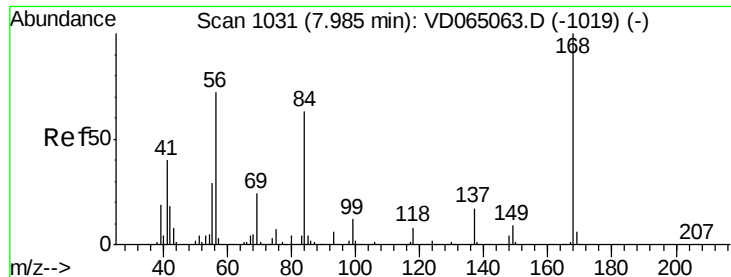
Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion:168 Resp: 431122

Ion Ratio Lower Upper

168 100

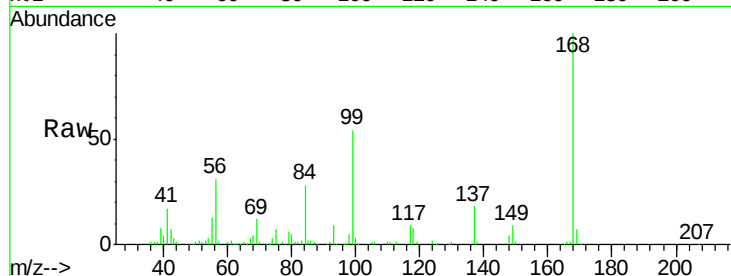
99 54.3 41.0 61.6

Manual Integrations

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2/17/2020 10:35:13 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

200000

150000

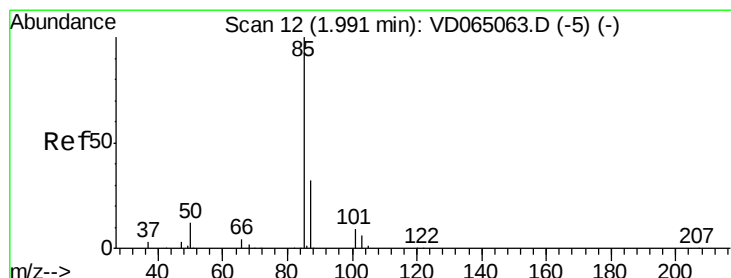
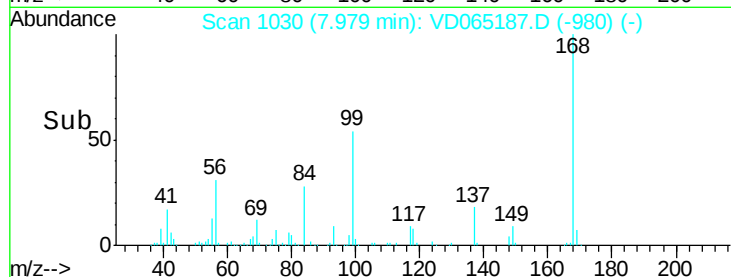
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.580 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065187.D

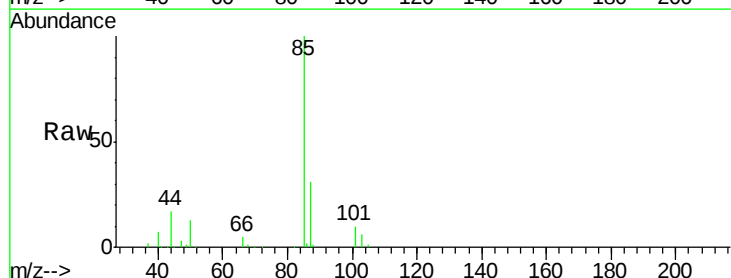
Acq: 14 Feb 2020 14:53

Tgt Ion: 85 Resp: 77421

Ion Ratio Lower Upper

85 100

87 30.8 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

60000

50000

40000

30000

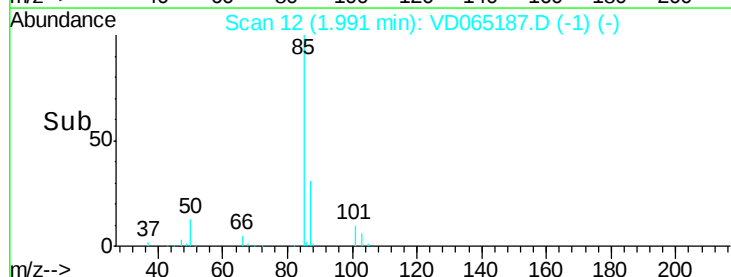
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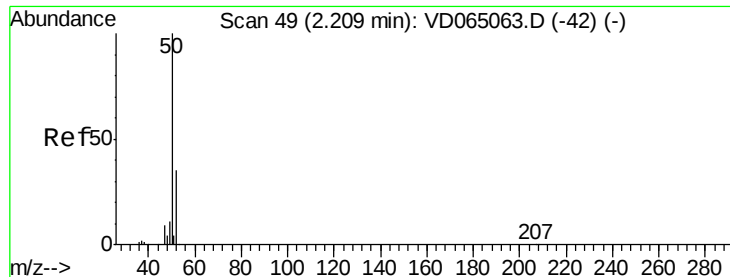
10000

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 23.086 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion: 50 Resp: 97499

Ion Ratio Lower Upper

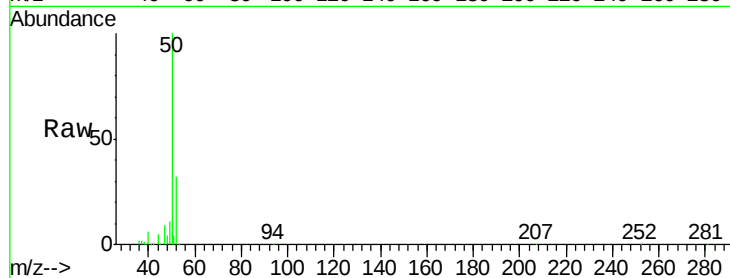
50 100

52 31.7 27.8 41.6

Manual Integrations
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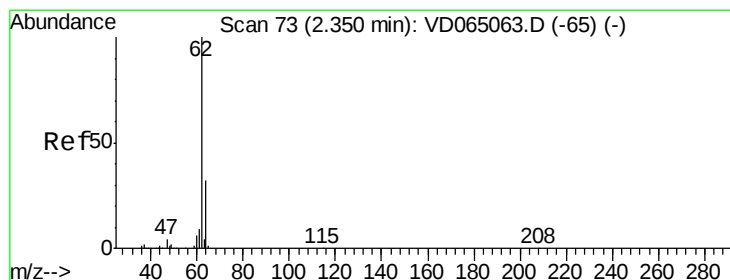
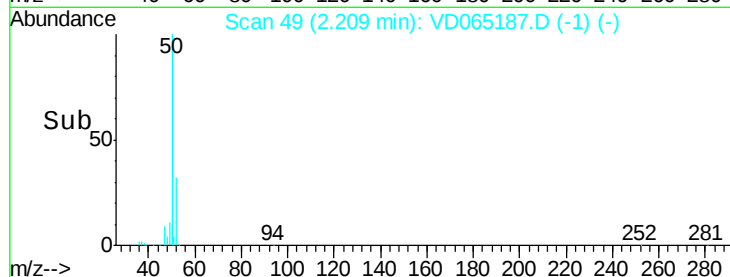
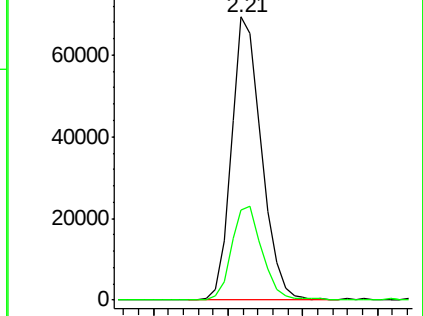
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2/17/2020 10:35:13 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 22.980 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065187.D

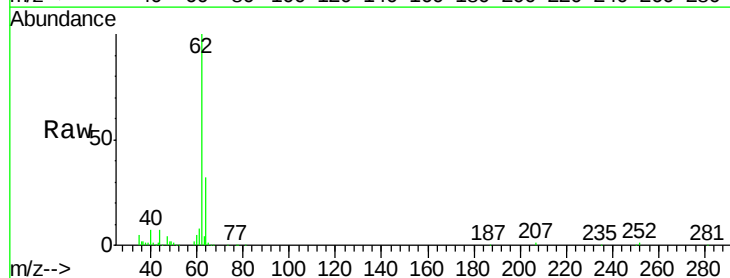
Acq: 14 Feb 2020 14:53

Tgt Ion: 62 Resp: 102639

Ion Ratio Lower Upper

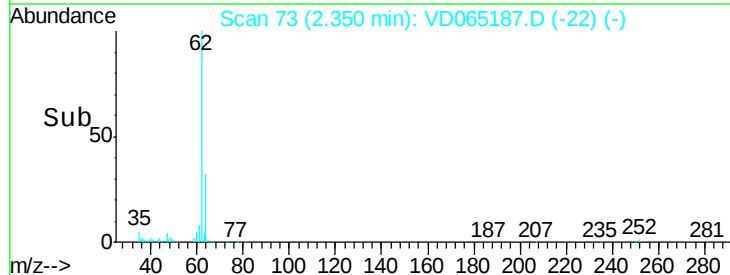
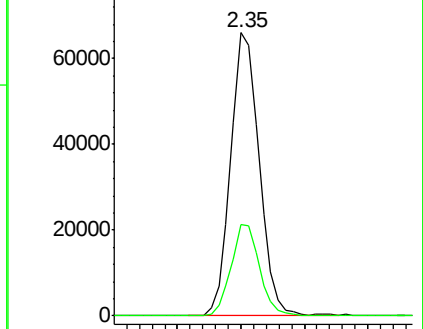
62 100

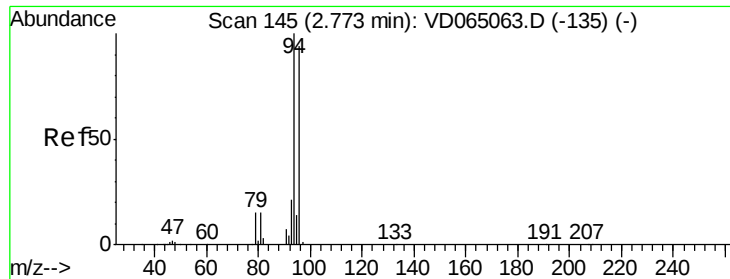
64 32.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.595 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion: 94 Resp: 59644

Ion Ratio Lower Upper

94 100

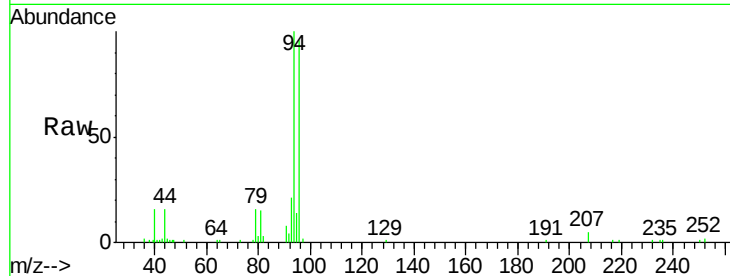
96 94.9 75.4 113.0

Manual Integrations

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2/17/2020 10:35:13 AM



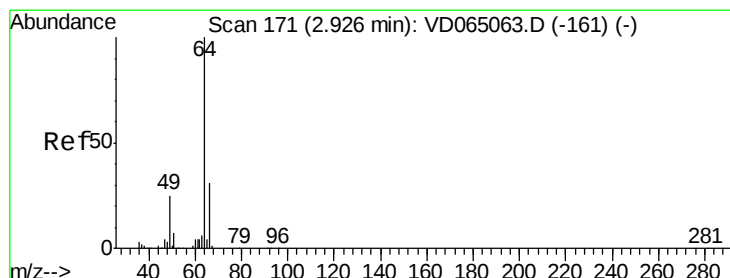
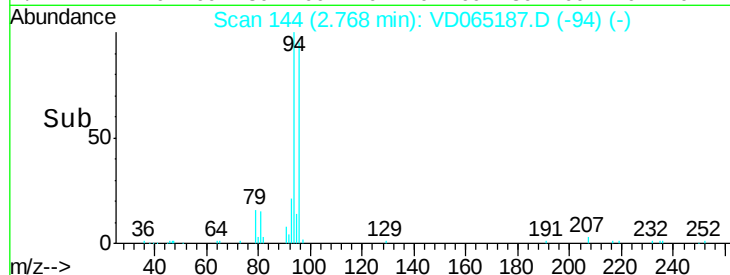
Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

2.70 2.75 2.80 2.85

Time-->



#6

Chloroethane

Concen: 22.924 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065187.D

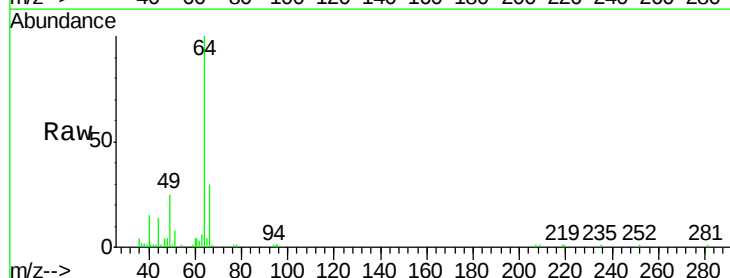
Acq: 14 Feb 2020 14:53

Tgt Ion: 64 Resp: 63512

Ion Ratio Lower Upper

64 100

66 29.7 24.8 37.2



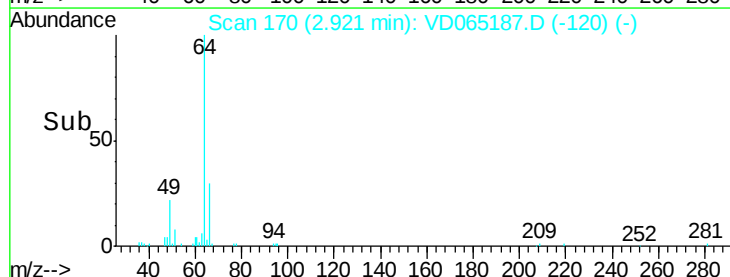
Abundance Ion 63.90 (63.60 to 64.60): VDC

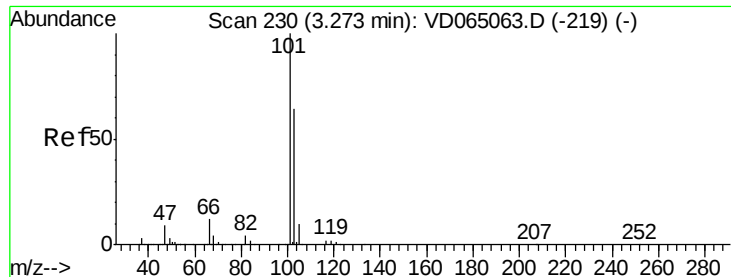
Ion 65.90 (65.60 to 66.60): VDC

2.92

2.80 2.90 3.00

Time-->





#7

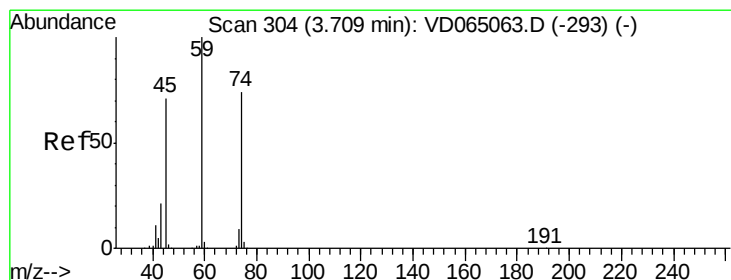
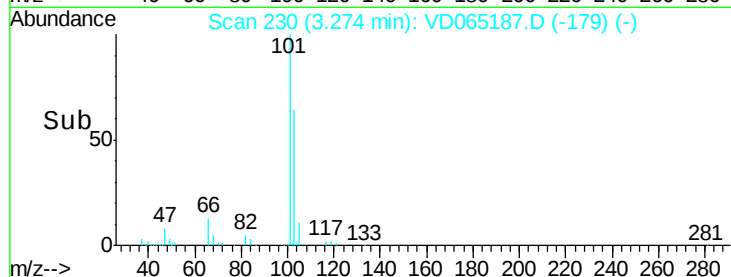
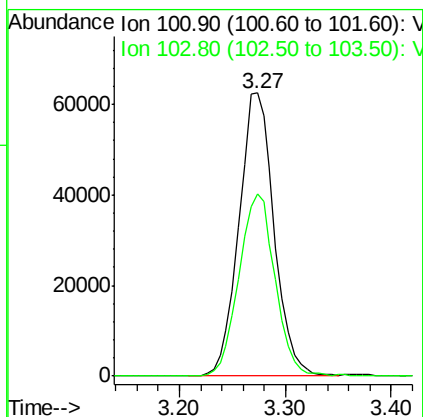
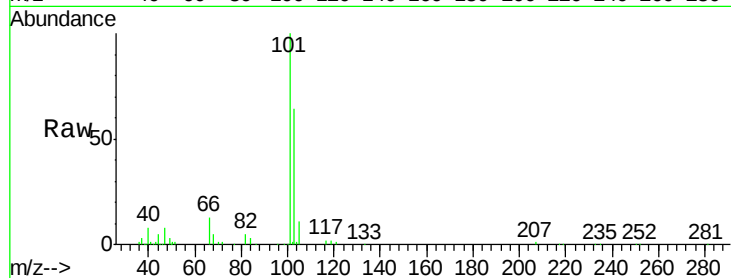
Trichlorofluoromethane
Concen: 22.249 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.0	76.6

Manual Integrations
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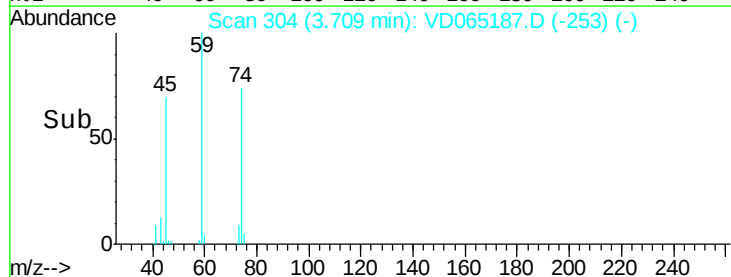
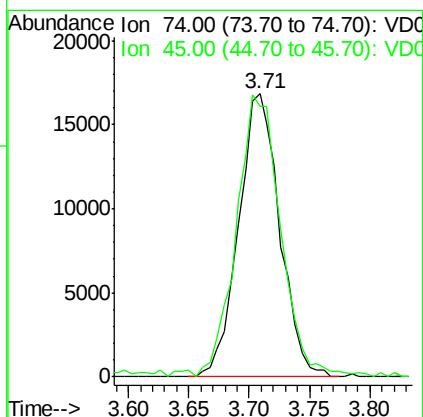
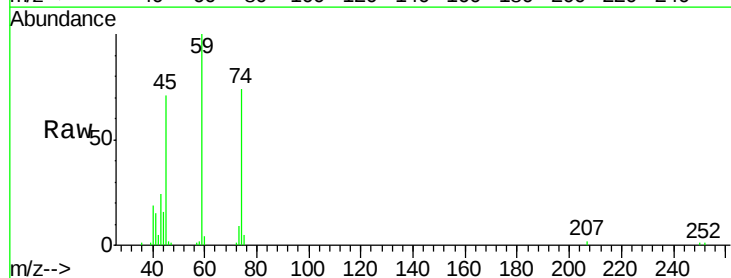
MMDadoda
2/17/2020 10:35:13 AM

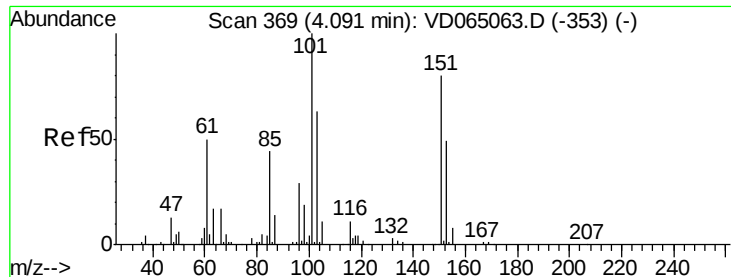


#8

Diethyl Ether
Concen: 21.439 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.2	49.0	147.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.708 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

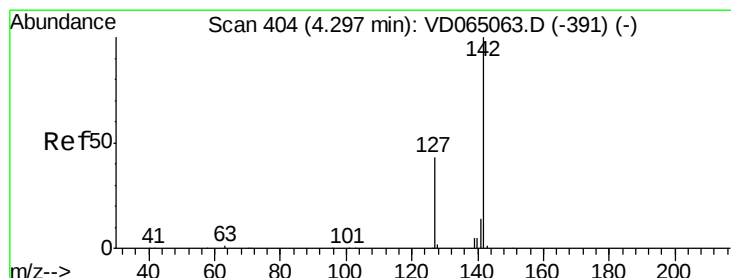
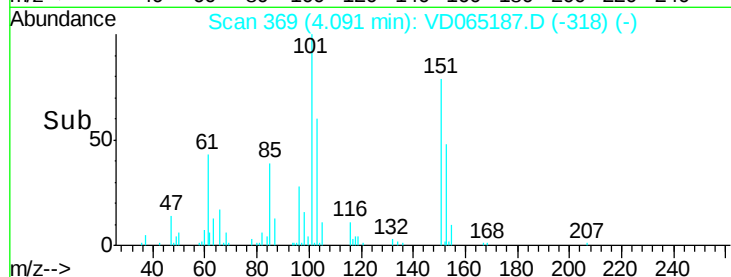
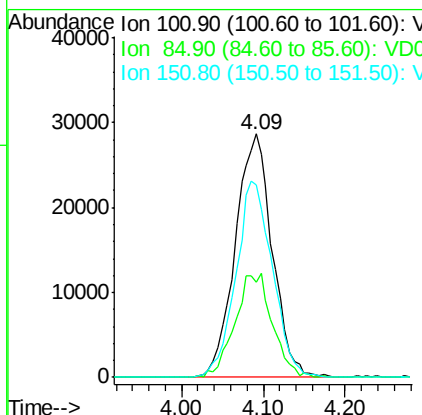
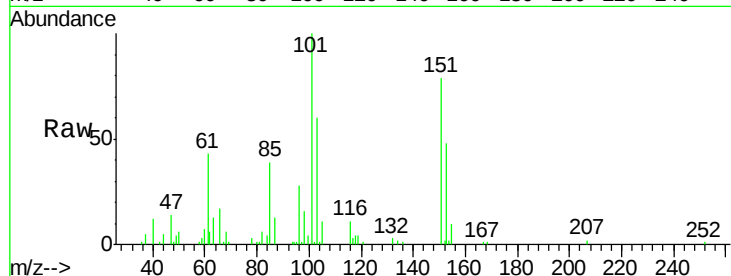
ClientSampleId :

VD0214SBSD01

Tot Ion:	101	Resp:	90232
Ion Ratio	Lower	Upper	
101	100		
85	43.0	34.0	51.0
151	79.7	64.0	96.0

Manual Integrations
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#10

Methyl Iodide

Concen: 20.672 ug/l

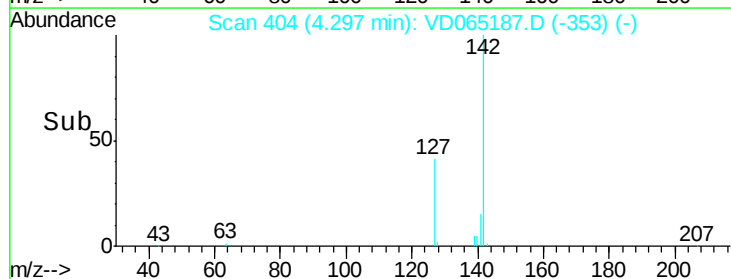
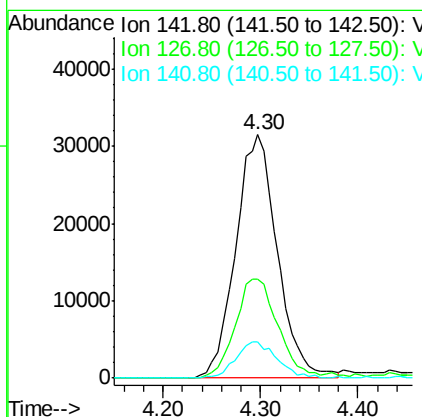
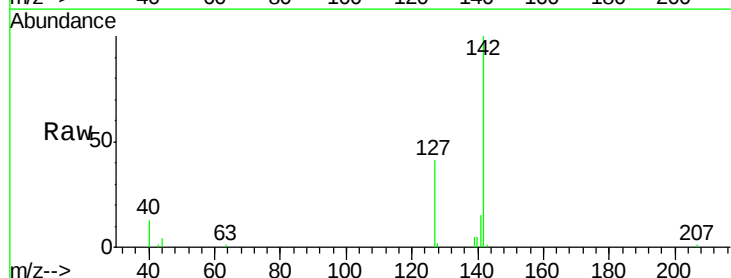
RT: 4.30 min Scan# 404

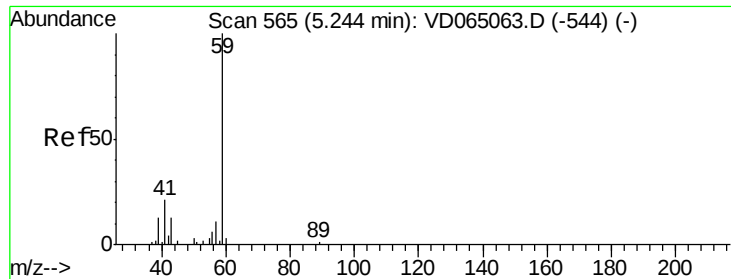
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	142	Resp:	93754
Ion Ratio	Lower	Upper	
142	100		
127	41.6	34.0	51.0
141	14.7	11.6	17.4





#11

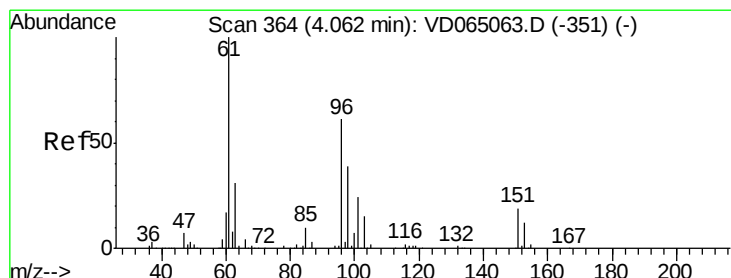
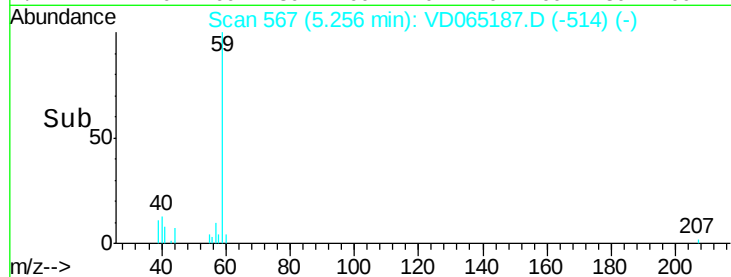
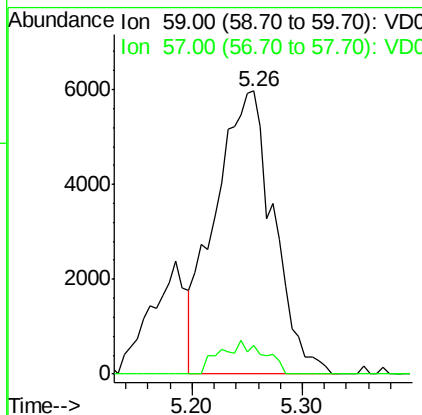
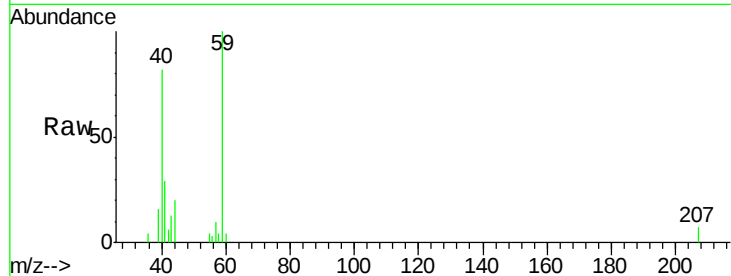
Tert butyl alcohol
 Concen: 98.206 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	8.8	13.2

Manual Integrations
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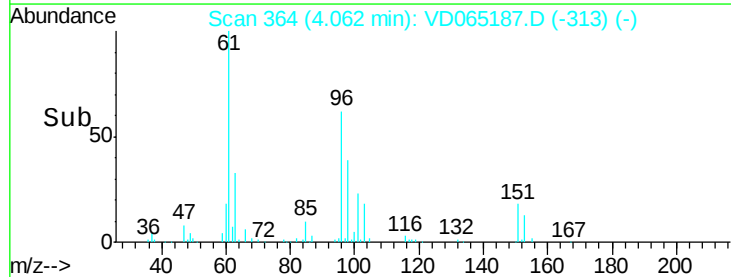
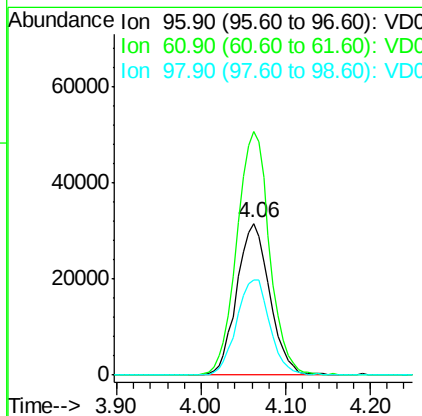
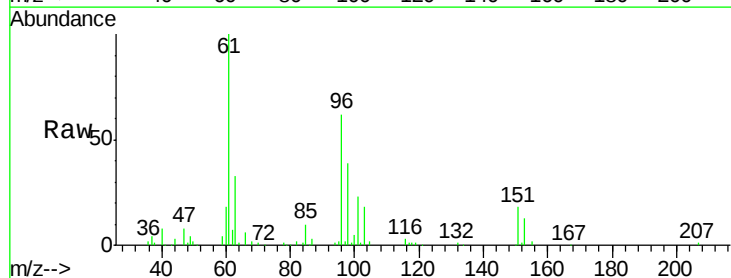
MMDadoda
 2/17/2020 10:35:13 AM



#12

1,1-Dichloroethene
 Concen: 22.441 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.3	131.4	197.2
98	62.4	51.1	76.7





#13

Acrolein

Concen: 75.417 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion: 56 Resp: 20767

Ion Ratio Lower Upper

56 100

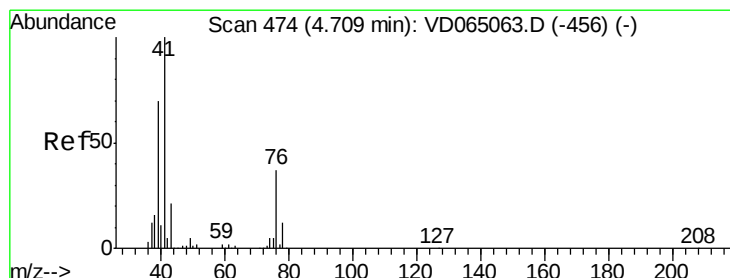
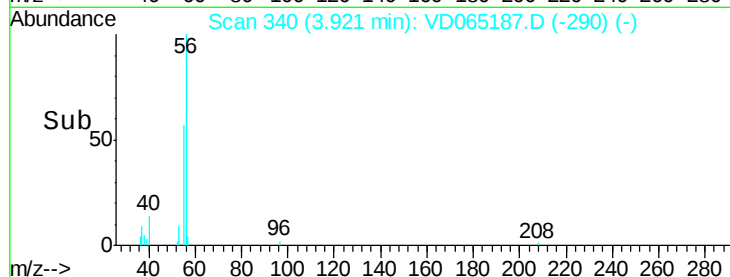
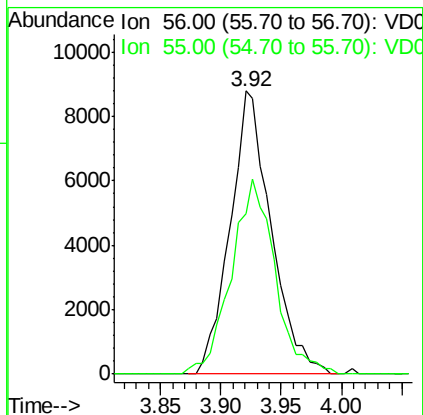
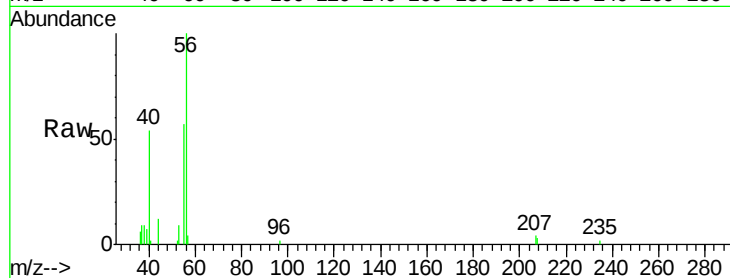
55 73.4 58.2 87.2

Manual Integrations

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#14

Allyl chloride

Concen: 21.858 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

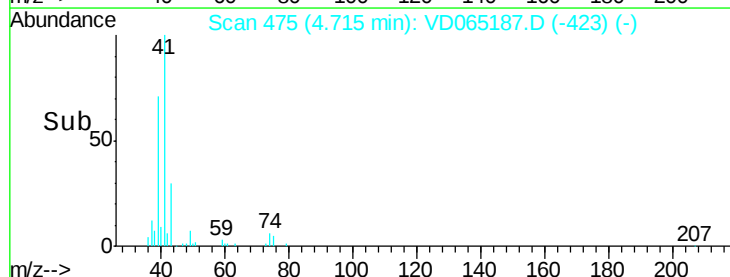
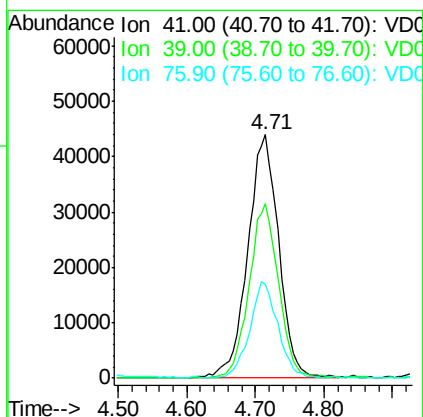
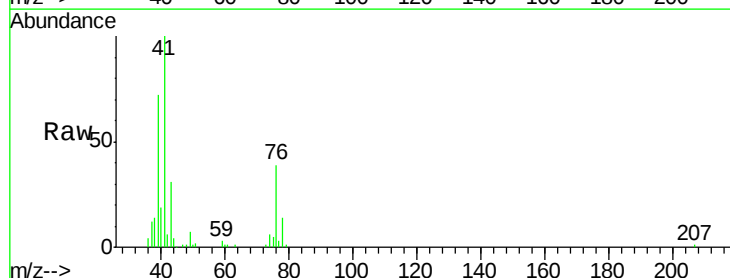
Tgt Ion: 41 Resp: 138249

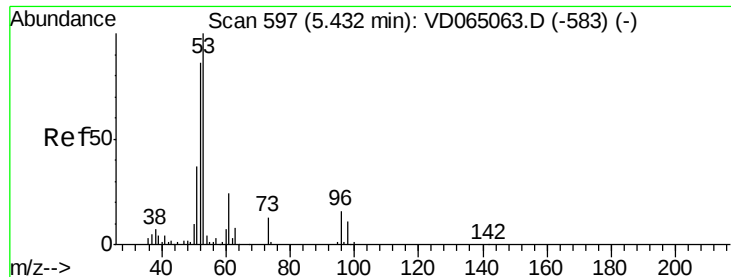
Ion Ratio Lower Upper

41 100

39 68.0 57.1 85.7

76 36.1 28.0 42.0





#15

Acrylonitrile

Concen: 107.525 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

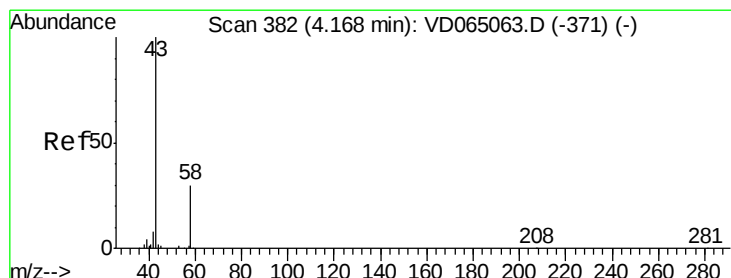
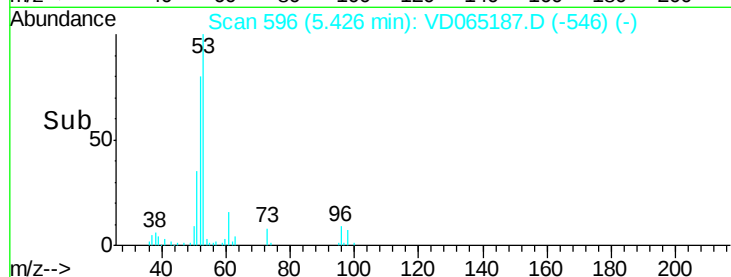
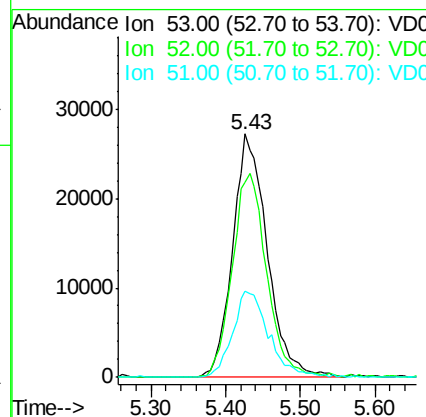
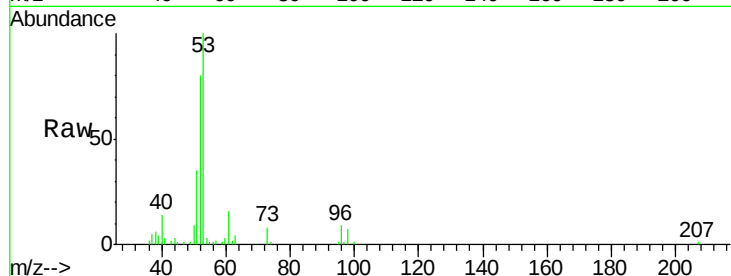
ClientSampleId :

VD0214SBS01

Tot Ion:	53	Resp:	87717
Ion Ratio	Lower	Upper	
53	100		
52	83.2	66.2	99.2
51	37.1	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 95.491 ug/l

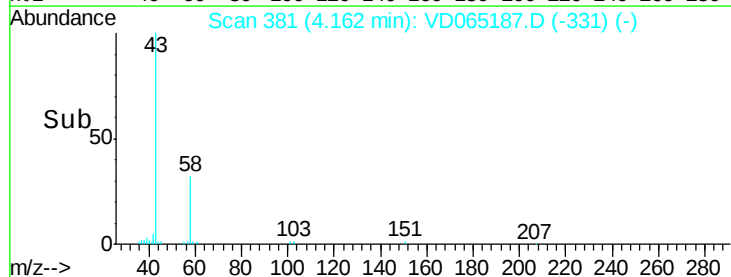
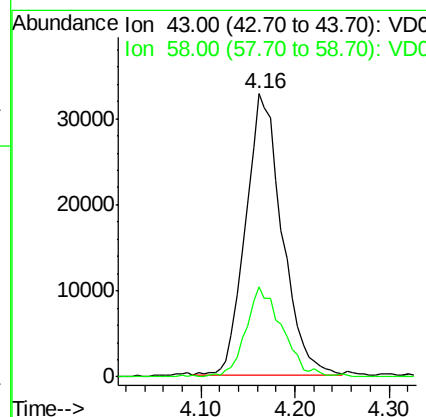
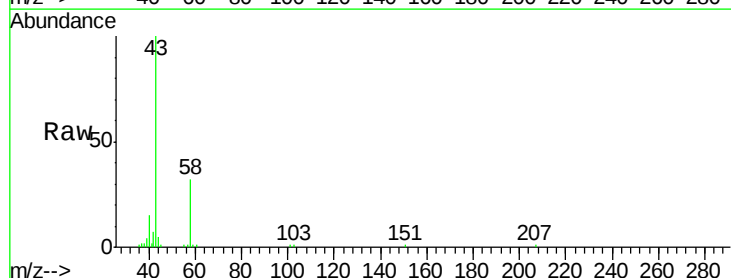
RT: 4.16 min Scan# 381

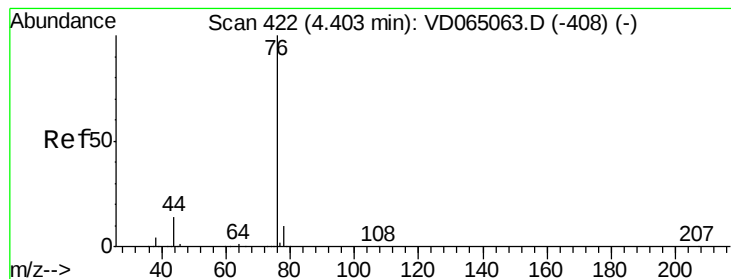
Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	43	Resp:	87480
Ion Ratio	Lower	Upper	
43	100		
58	31.5	23.5	35.3





#17

Carbon Disulfide

Concen: 22.415 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion: 76 Resp: 273890

Ion Ratio Lower Upper

76 100

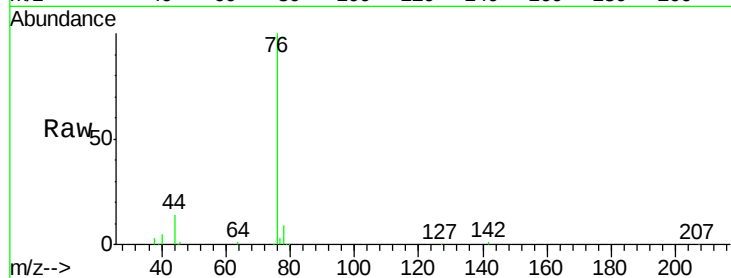
78 9.3 7.6 11.4

Manual Integrations

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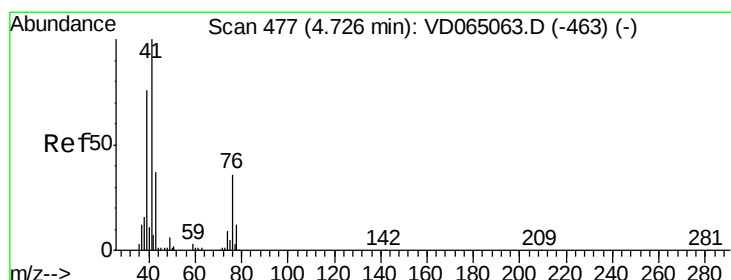
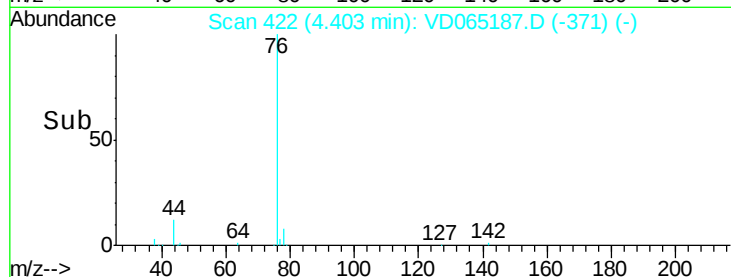
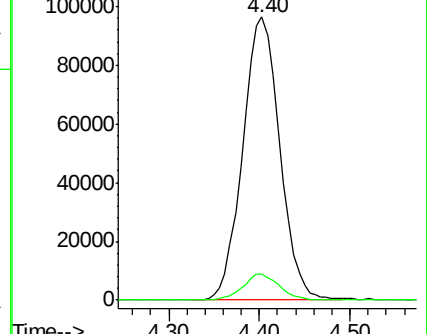
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 24.450 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD065187.D

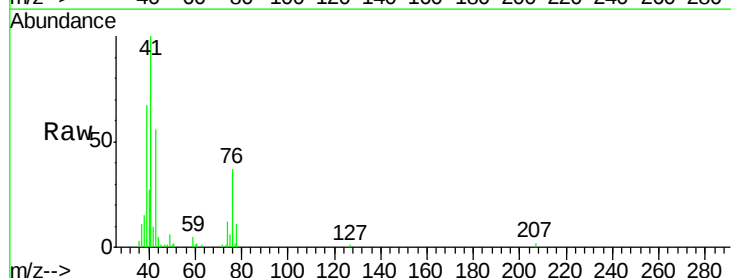
Acq: 14 Feb 2020 14:53

Tgt Ion: 43 Resp: 46797

Ion Ratio Lower Upper

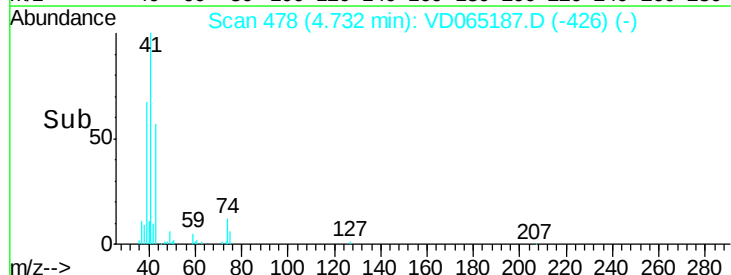
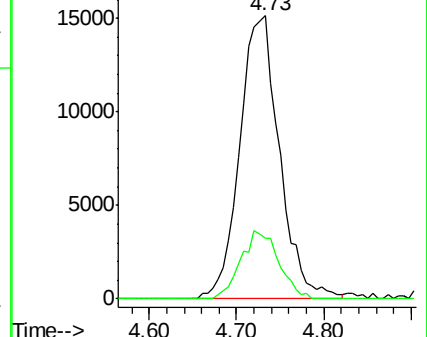
43 100

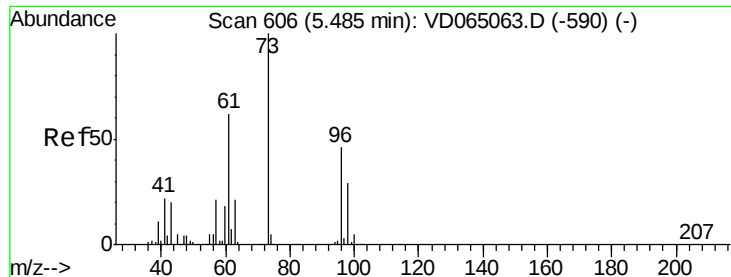
74 22.8 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





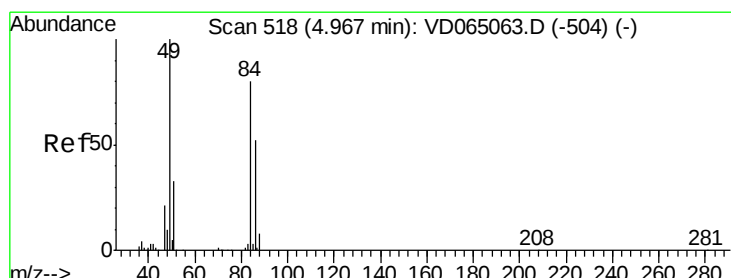
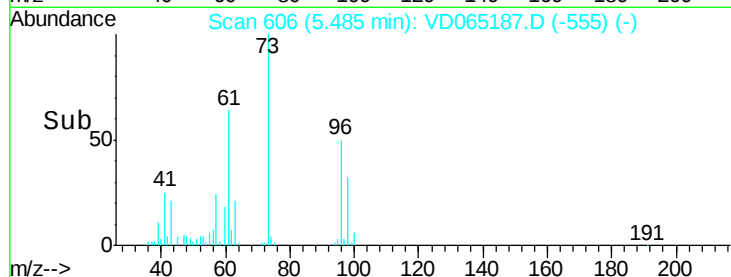
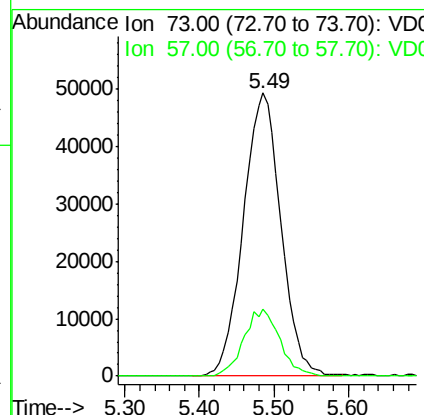
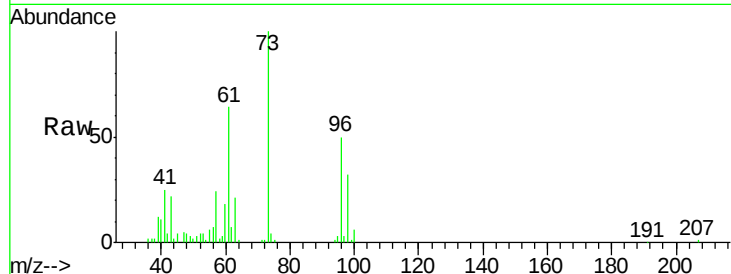
#19
Methyl tert-butyl Ether
Concen: 20.511 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion: 73 Resp: 172606
Ion Ratio Lower Upper
73 100
57 23.8 16.8 25.2

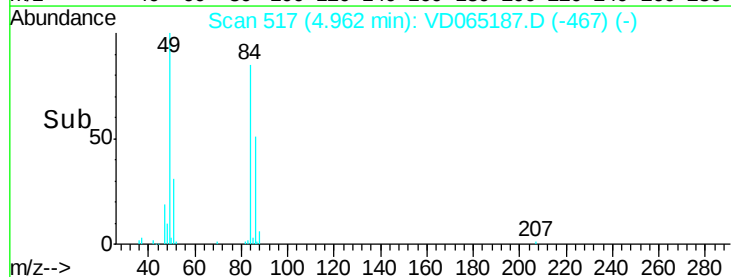
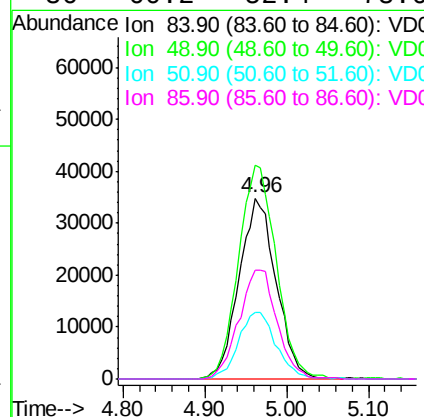
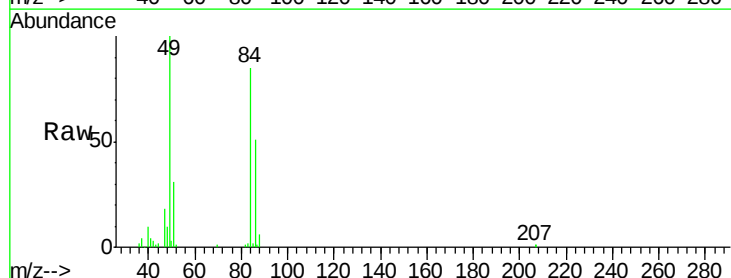
Manual Integrations
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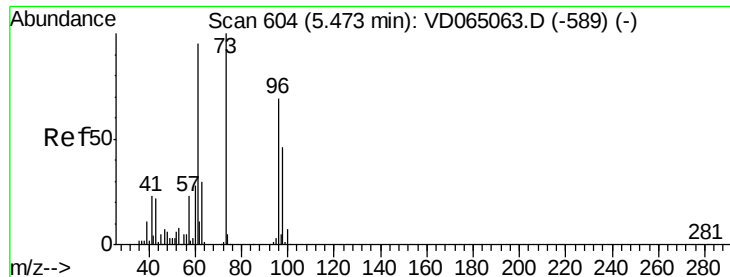
MMDadoda
2/17/2020 10:35:13 AM



#20
Methylene Chloride
Concen: 25.220 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion: 84 Resp: 109610
Ion Ratio Lower Upper
84 100
49 118.2 100.4 150.6
51 37.0 32.7 49.1
86 60.2 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 22.360 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 96 Resp: 96271

Ion Ratio Lower Upper

96 100

61 127.8 109.5 164.3

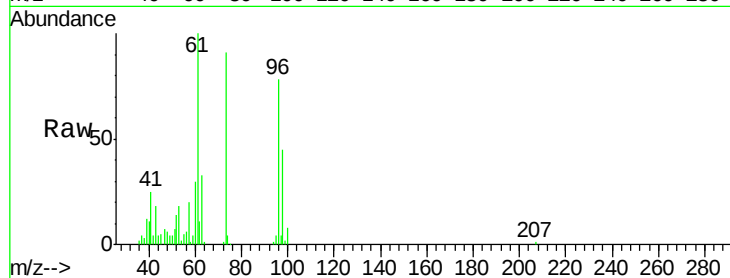
98 57.5 53.7 80.5

Manual Integrations

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MMDadoda

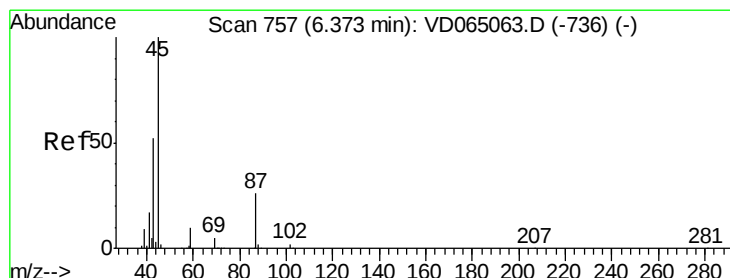
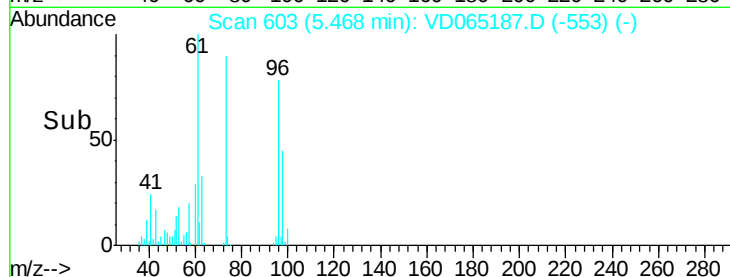
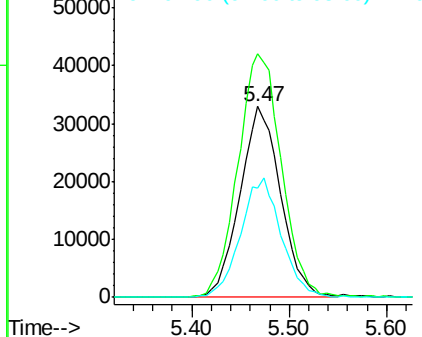
2/17/2020 10:35:13 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 23.090 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion: 45 Resp: 275467

Ion Ratio Lower Upper

45 100

43 53.3 41.3 61.9

87 24.5 21.0 31.6

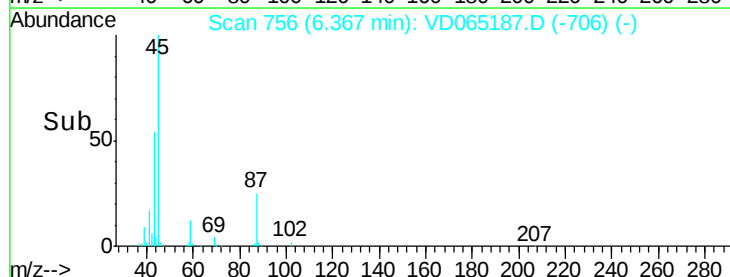
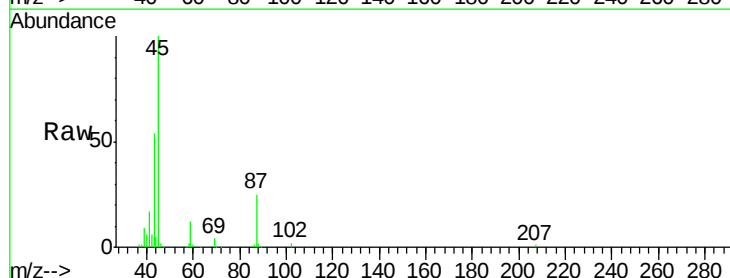
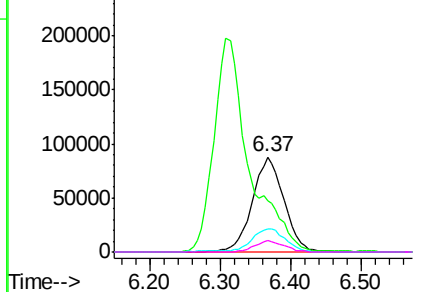
59 12.3 8.2 12.4

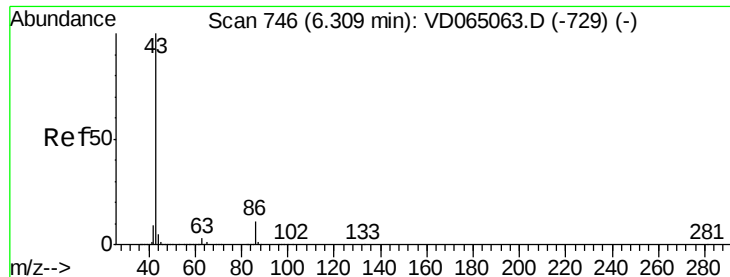
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 103.061 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tot Ion: 43 Resp: 685315

Ion Ratio Lower Upper

43 100

86 11.1 8.5 12.7

Instrument :

MSVOA_D

ClientSampleId :

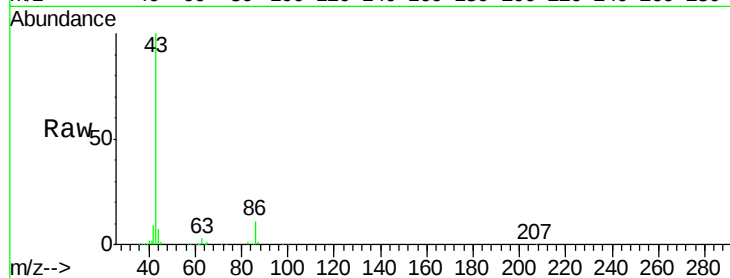
VD0214SBS01

Manual Integrations

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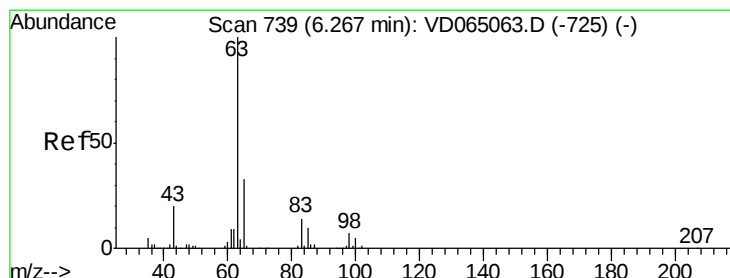
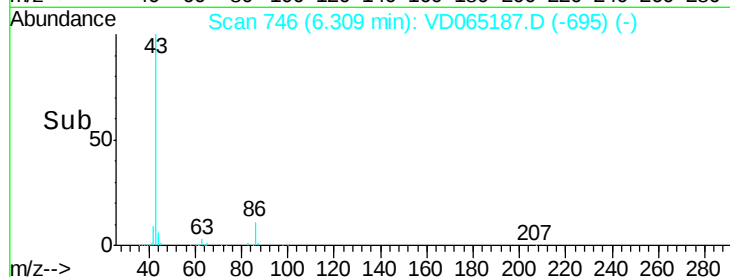
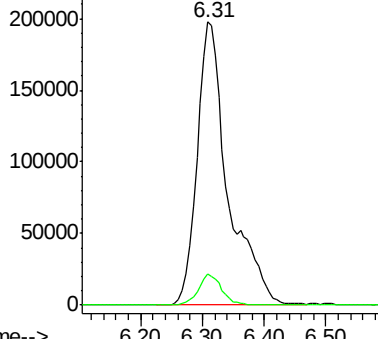
MMDadoda

2/17/2020 10:35:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.805 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

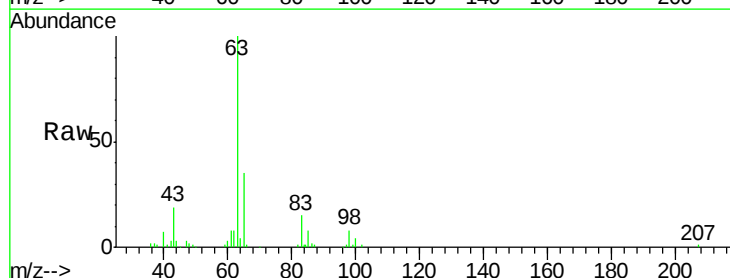
Tgt Ion: 63 Resp: 164678

Ion Ratio Lower Upper

63 100

98 8.2 3.5 10.4

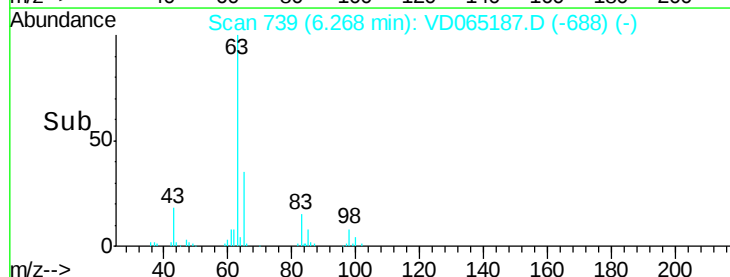
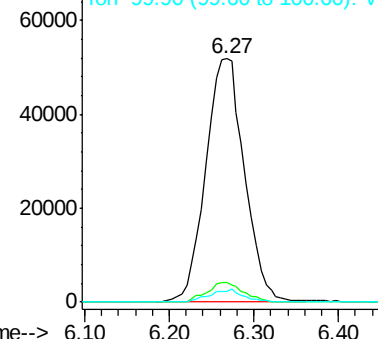
100 4.2 2.5 7.6

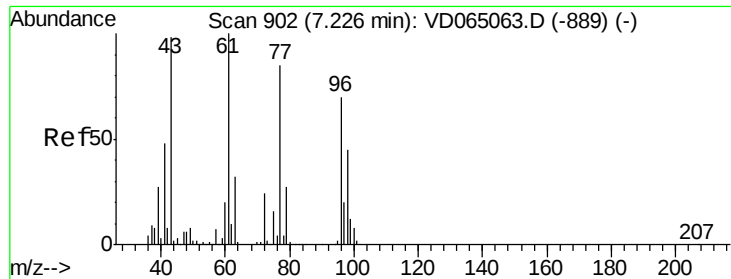


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 102.396 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBSD01

Tot Ion: 43 Resp: 111896

Ion Ratio Lower Upper

43 100

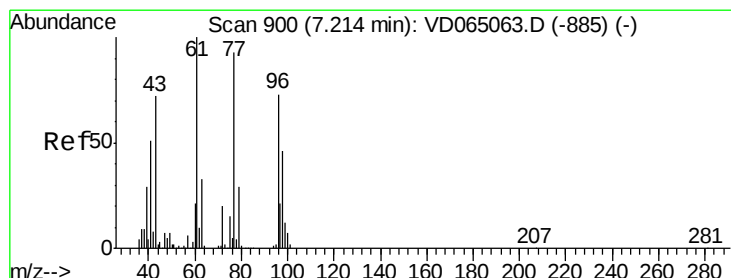
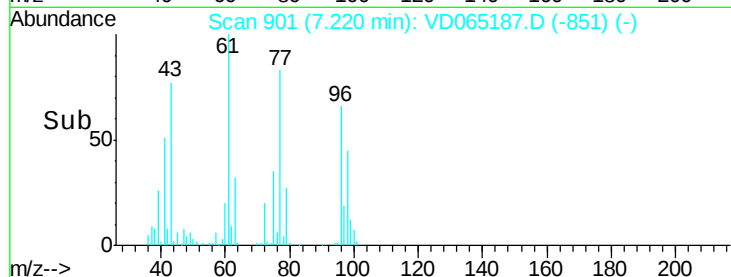
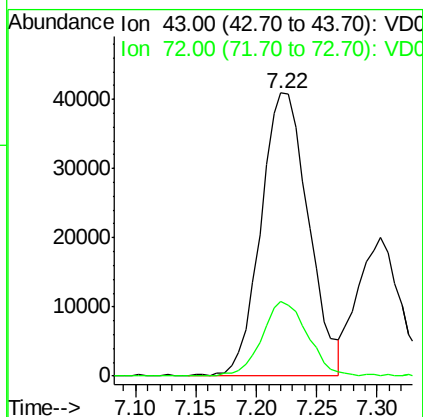
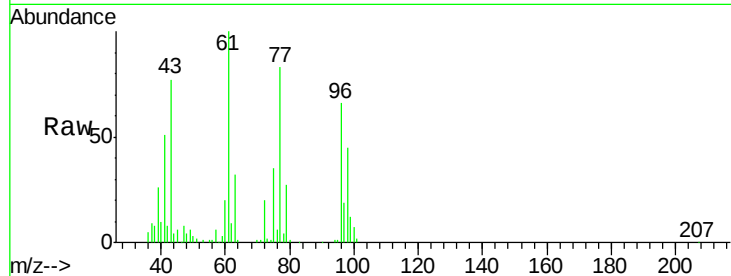
72 26.4 19.9 29.9

Manual Integrations

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2/17/2020 10:35:13 AM



#26

2,2-Dichloropropane

Concen: 22.623 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065187.D

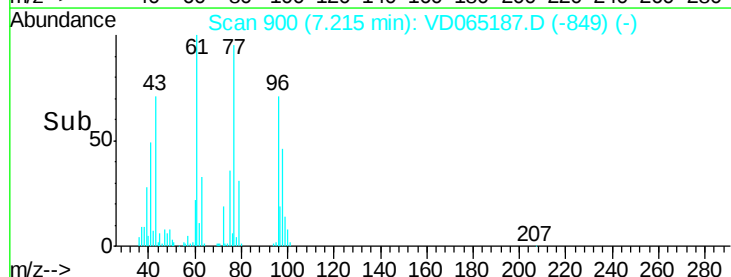
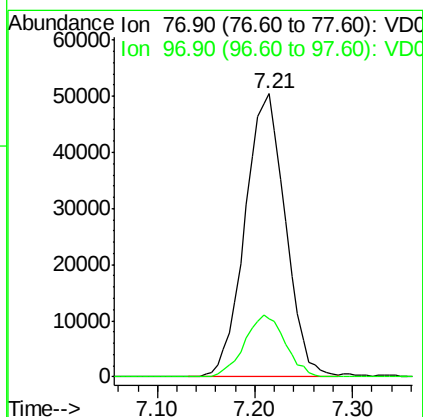
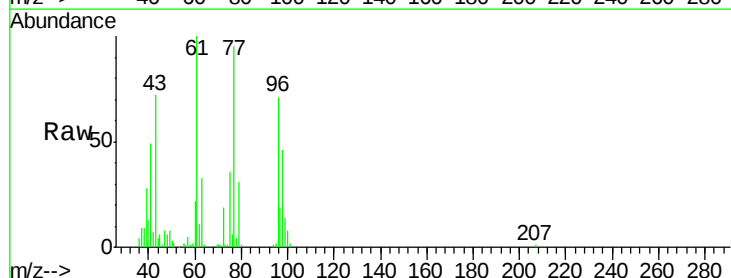
Acq: 14 Feb 2020 14:53

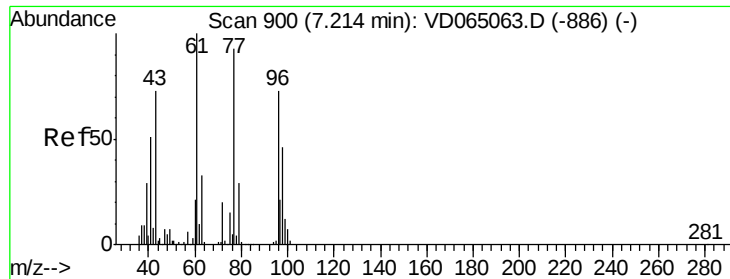
Tgt Ion: 77 Resp: 146426

Ion Ratio Lower Upper

77 100

97 21.9 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 22.053 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

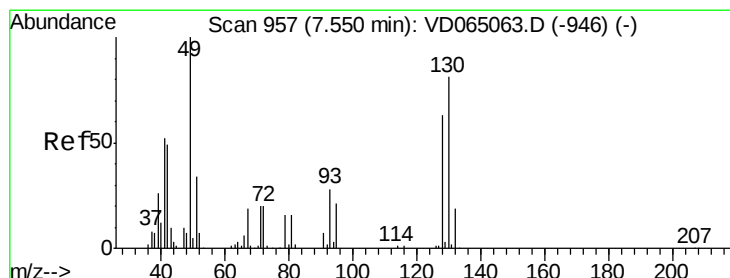
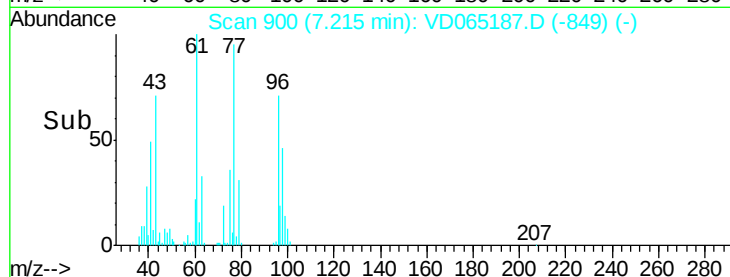
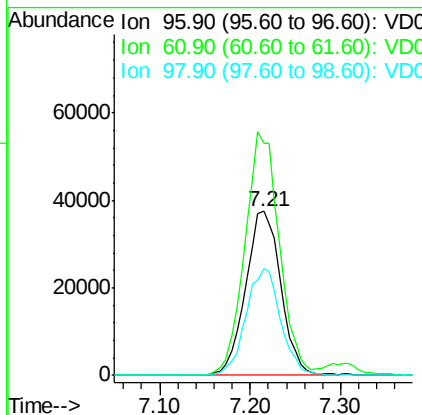
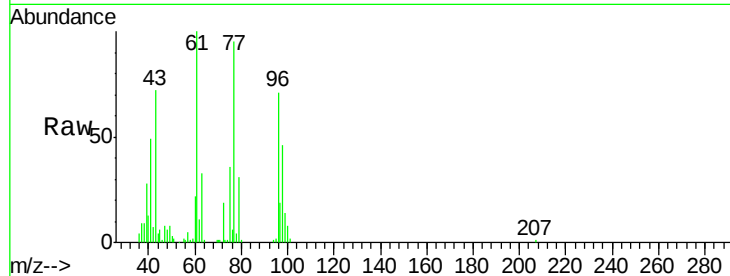
ClientSampleId :

VD0214SBS01

Tot Ion:	96	Resp:	100871
Ion Ratio	Lower	Upper	
96	100		
61	145.1	0.0	292.8
98	64.1	0.0	128.8

Manual Integrations
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#28

Bromochloromethane

Concen: 20.823 ug/l

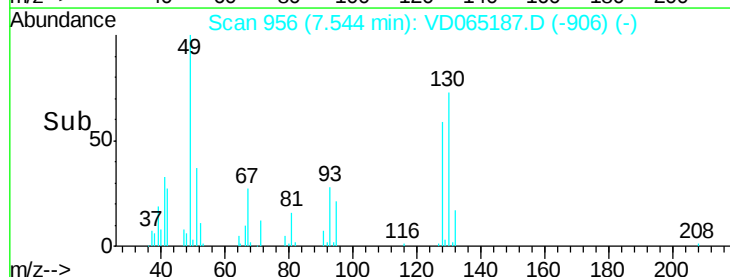
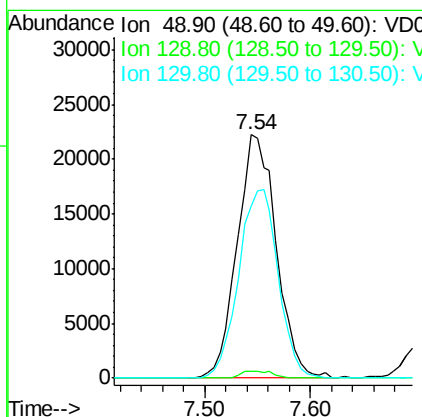
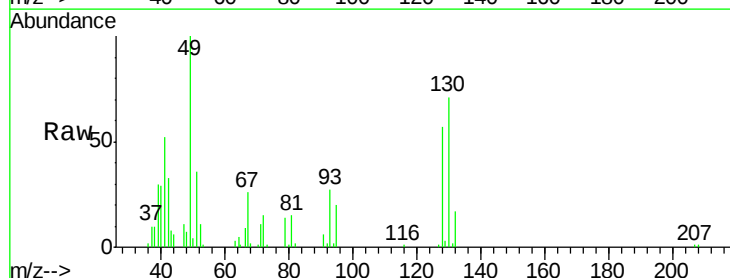
RT: 7.54 min Scan# 956

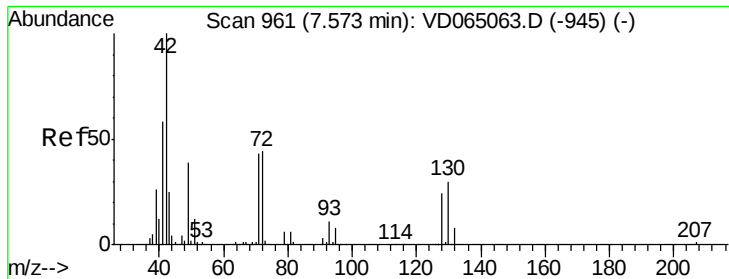
Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	49	Resp:	57000
Ion Ratio	Lower	Upper	
49	100		
129	2.3	0.0	4.4
130	78.5	63.8	95.8





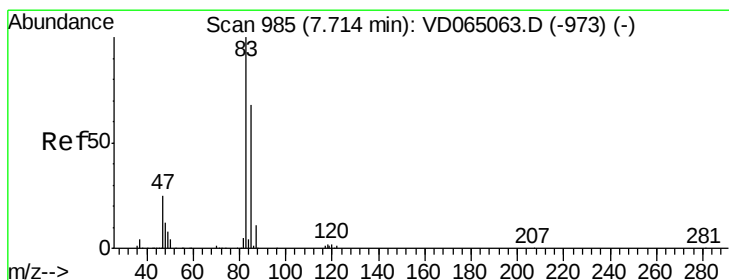
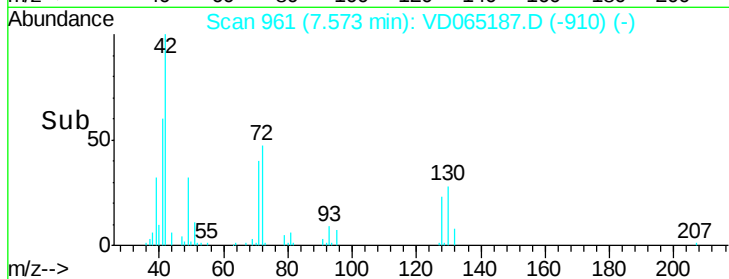
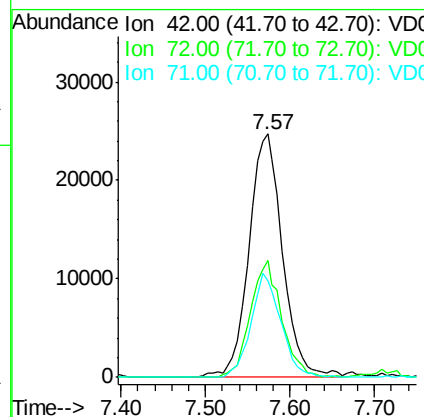
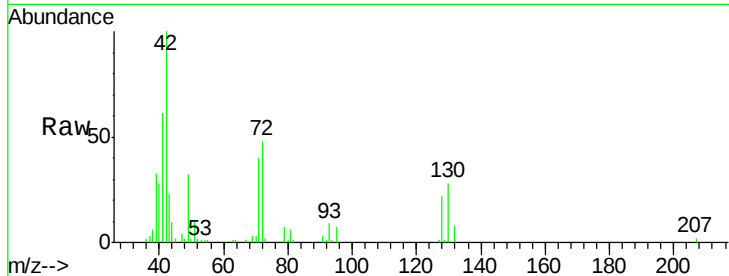
#29
Tetrahydrofuran
Concen: 103.401 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	34.2	51.4
71	38.1	31.8	47.6

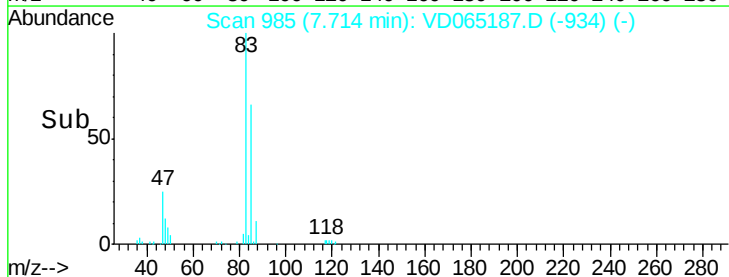
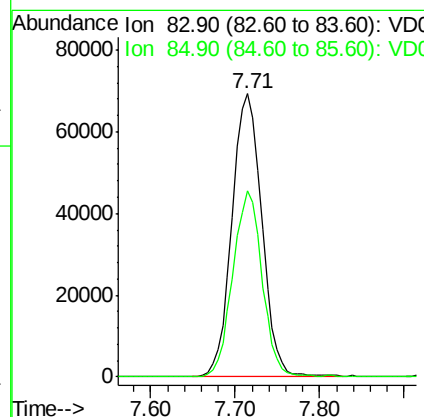
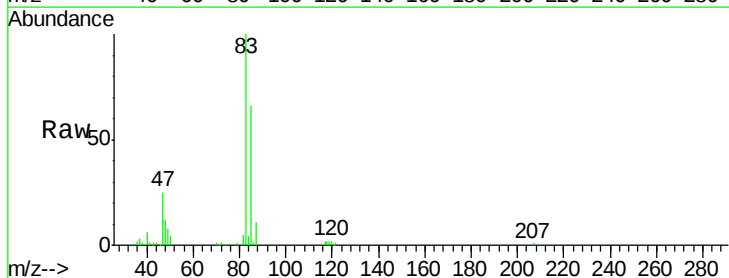
Manual Integrations
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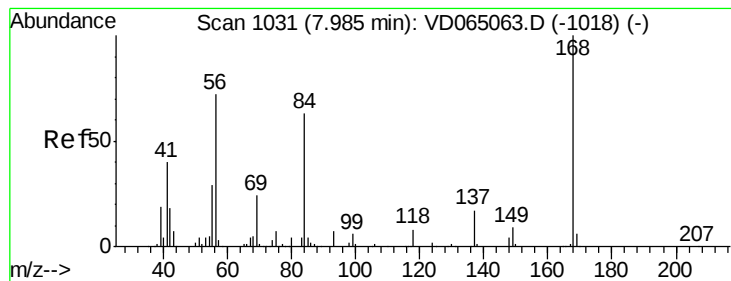
MMDadoda
2/17/2020 10:35:13 AM



#30
Chloroform
Concen: 23.506 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	54.2	81.4





#31

Cyclohexane

Concen: 21.453 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleID :

VD0214SBS01

Tot Ion: 56 Resp: 156376

Ion Ratio Lower Upper

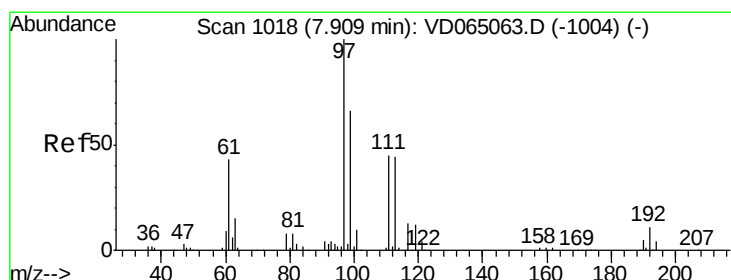
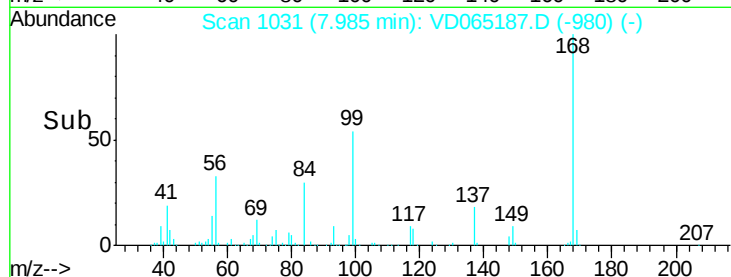
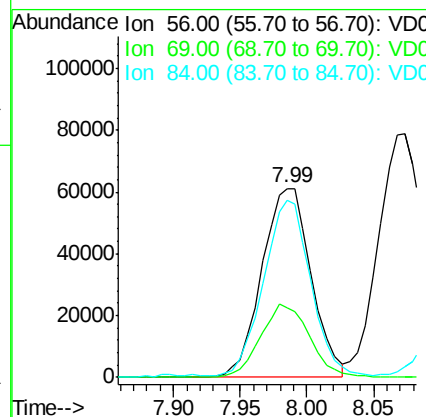
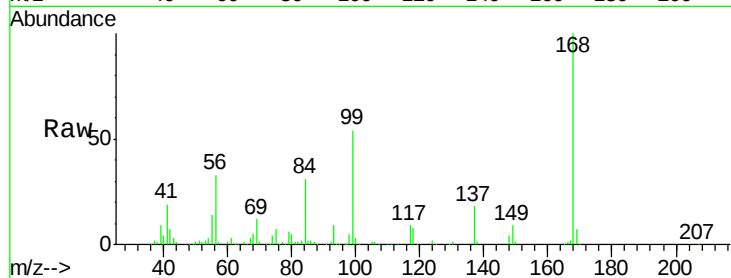
56 100

69 36.8 26.6 40.0

84 92.4 70.6 106.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.821 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

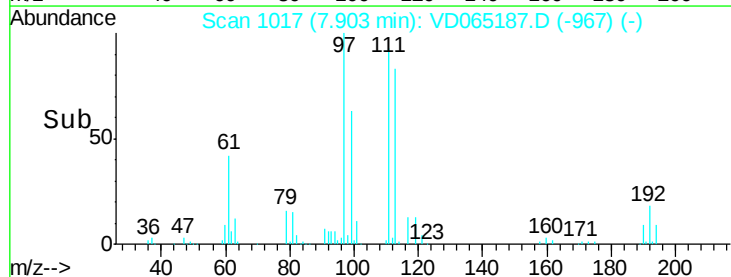
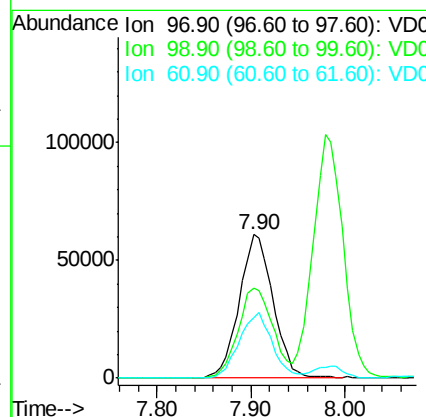
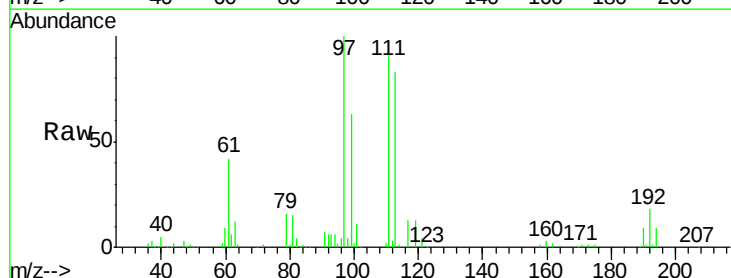
Tgt Ion: 97 Resp: 152849

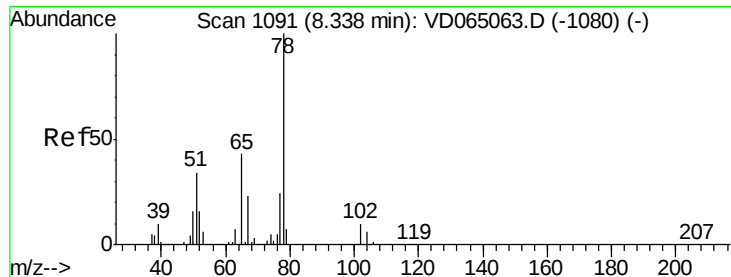
Ion Ratio Lower Upper

97 100

99 64.9 51.5 77.3

61 44.2 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 56.968 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 65 Resp: 208740

Ion Ratio Lower Upper

65 100

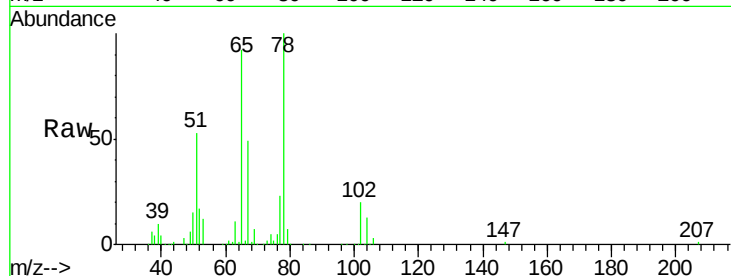
67 53.2 0.0 105.8

Manual Integrations

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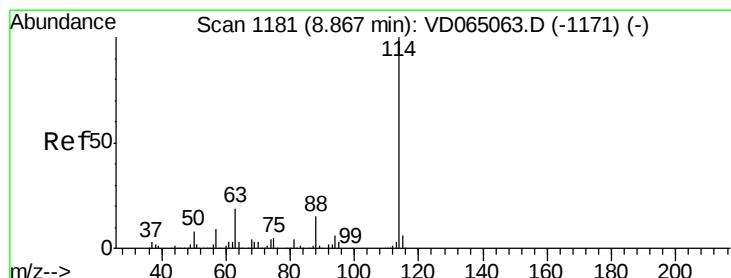
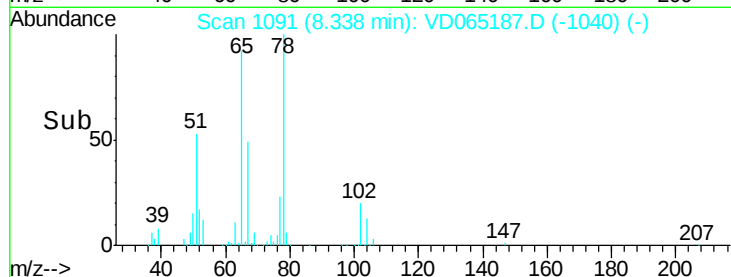
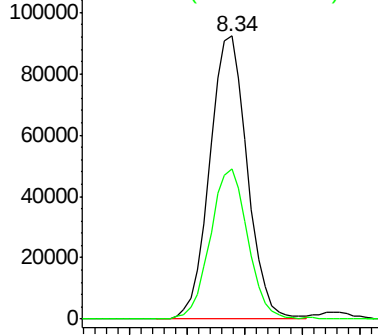
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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

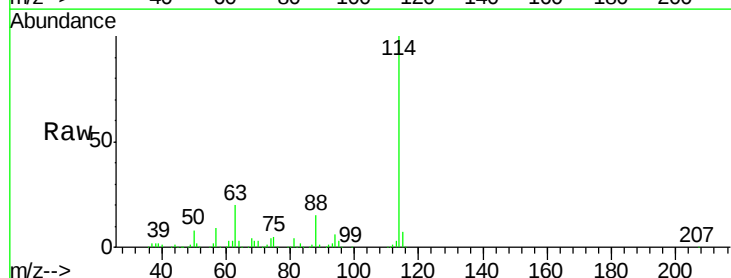
Tgt Ion: 114 Resp: 654646

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

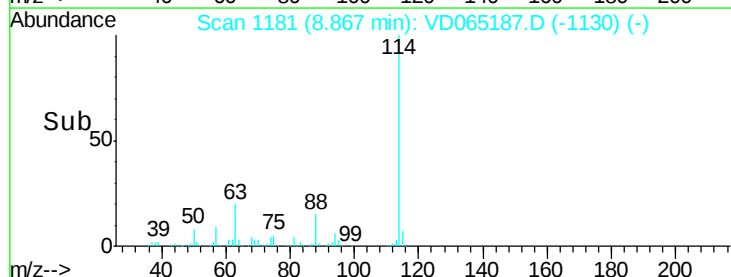
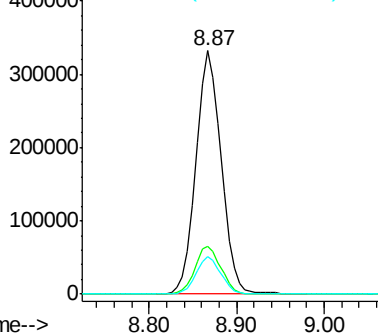
88 15.3 0.0 29.6

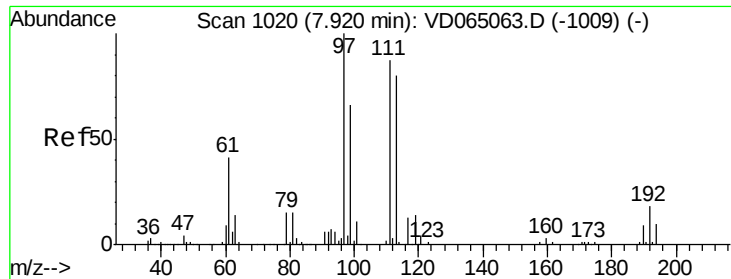


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





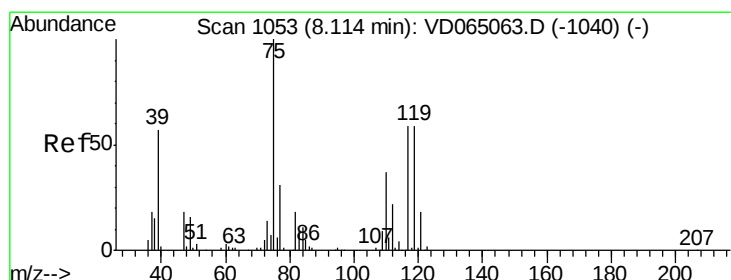
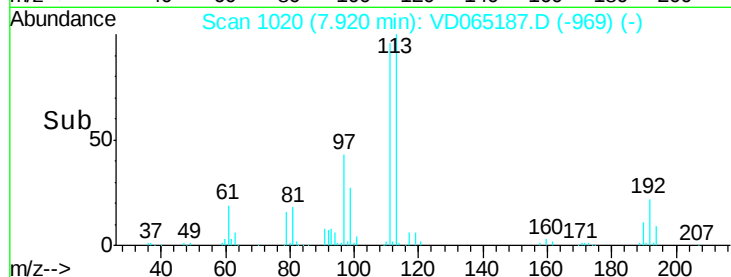
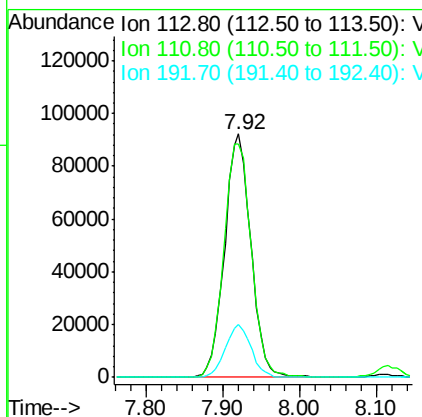
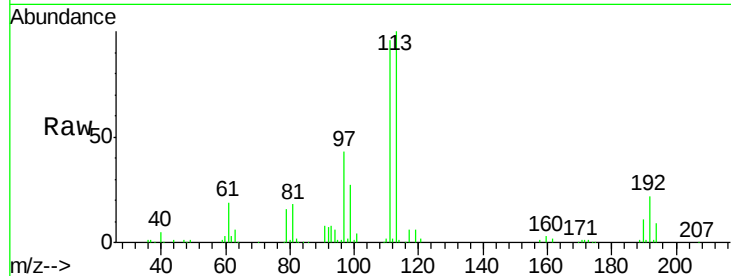
#35
 Dibromofluoromethane
 Concen: 60.088 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	219474		
111	100.8	83.1	124.7	
192	21.0	18.1	27.1	

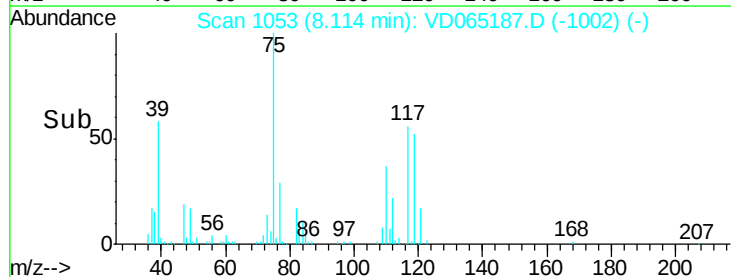
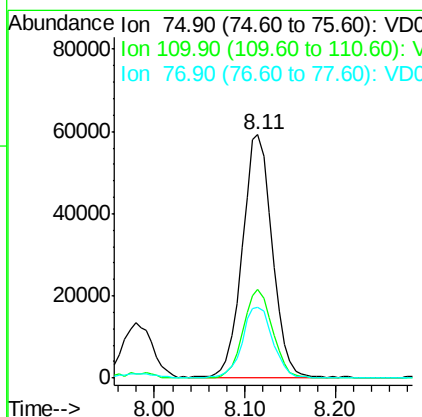
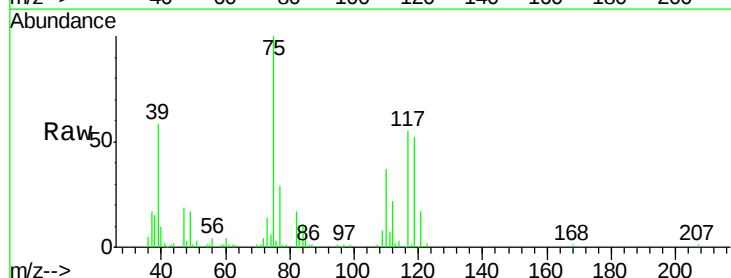
Manual Integrations
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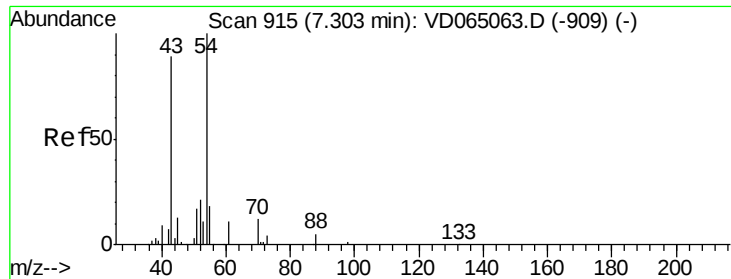
MMDadoda
 2/17/2020 10:35:13 AM



#36
 1,1-Dichloropropene
 Concen: 22.174 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	134976		
110	36.0	18.1	54.3	
77	30.2	24.7	37.1	





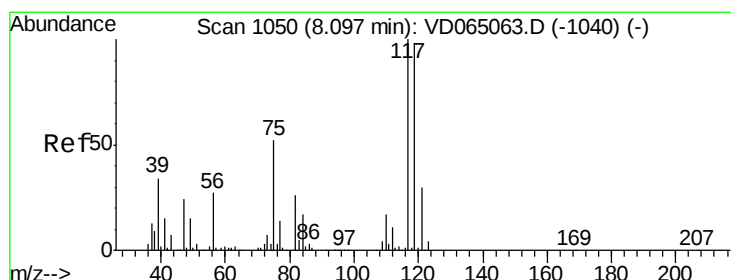
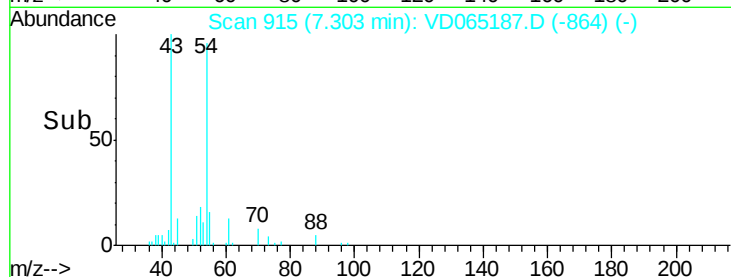
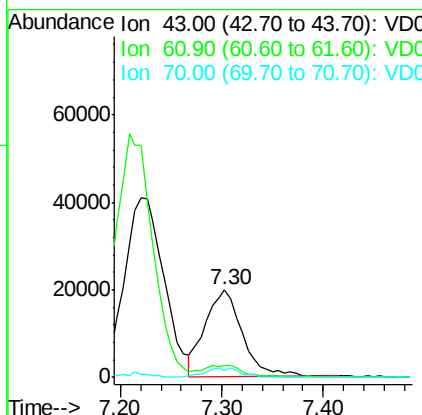
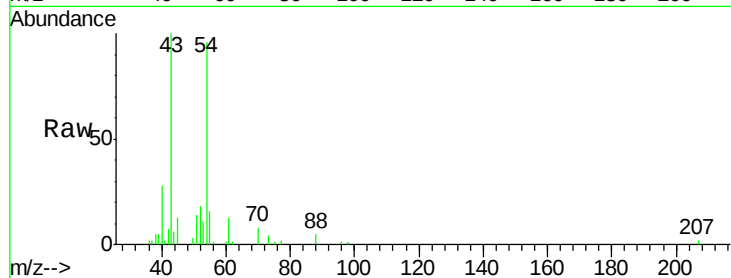
#37
Ethyl Acetate
Concen: 20.139 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.0	16.4
70	10.3	8.2	12.2

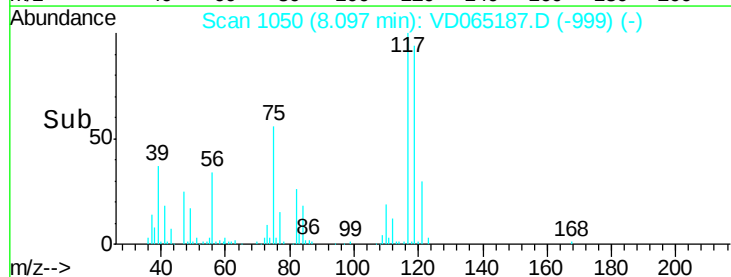
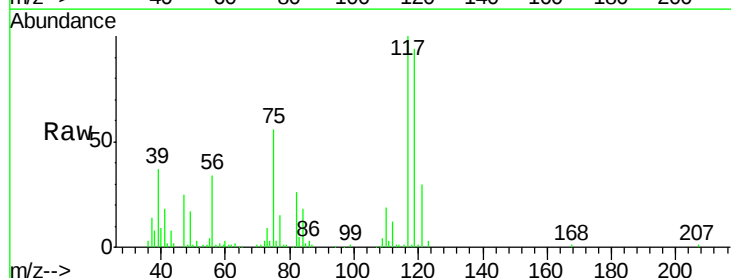
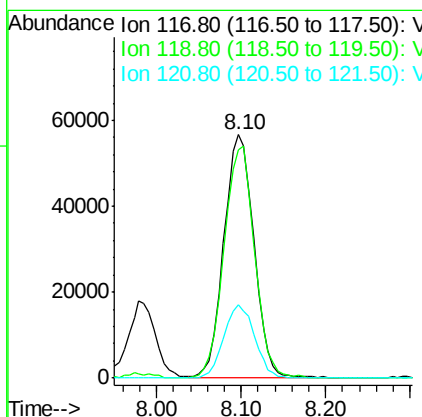
Manual Integrations
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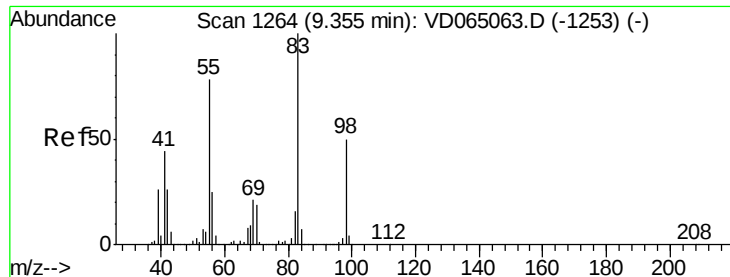
MMDadoda
2/17/2020 10:35:13 AM



#38
Carbon Tetrachloride
Concen: 22.499 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.6	78.5	117.7
121	30.3	23.8	35.6





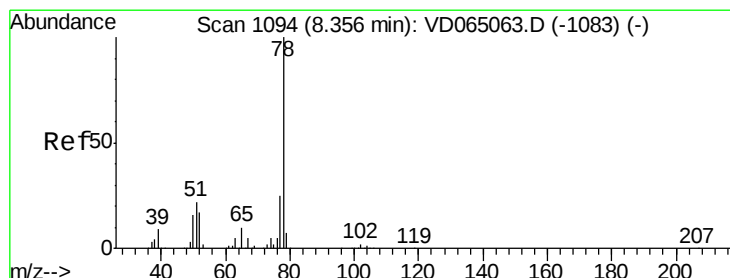
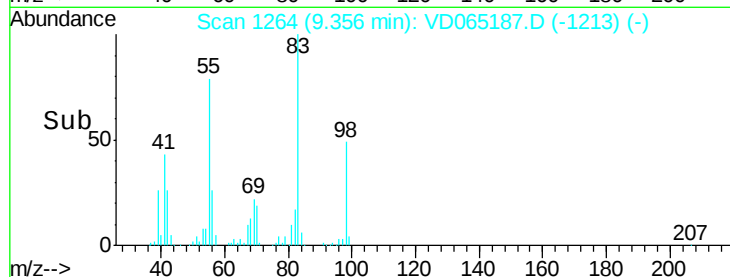
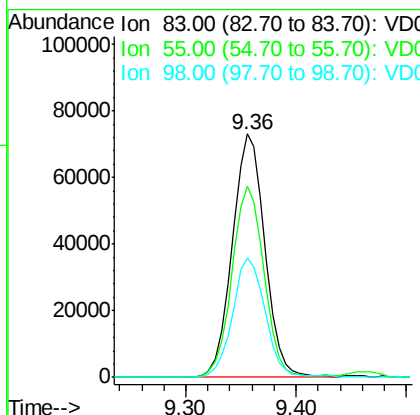
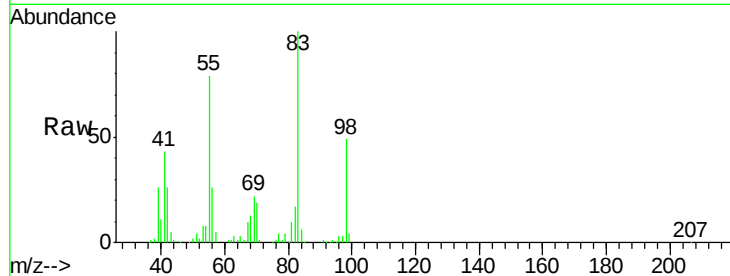
#39
Methvlcvclohexane
Concen: 20.141 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.7	62.0	93.0	
98	49.1	39.9	59.9	

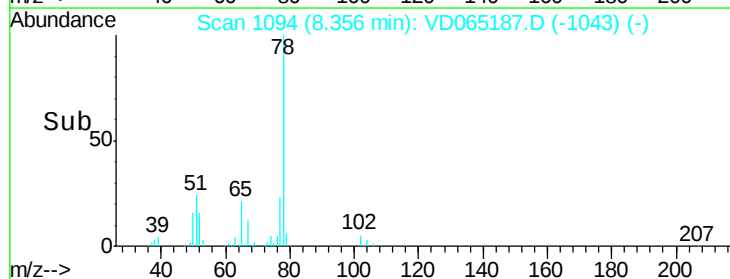
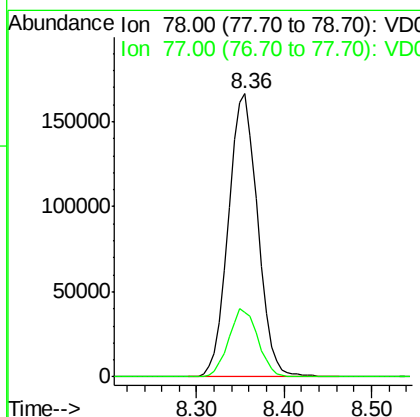
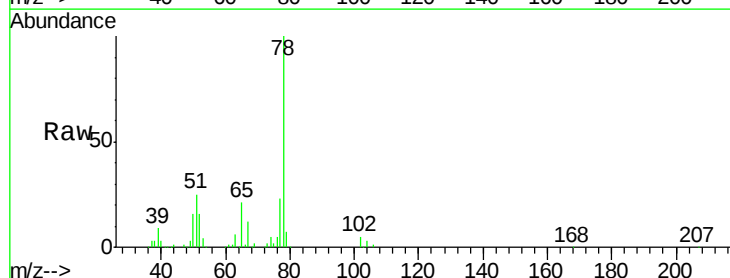
Manual Integrations
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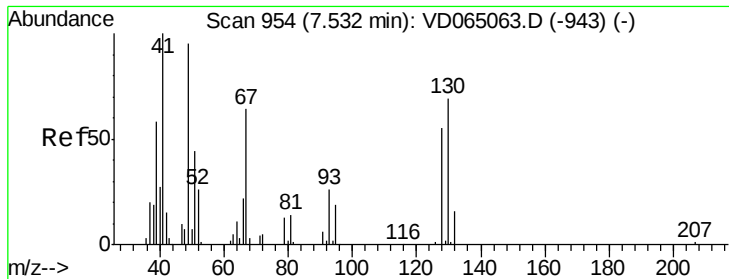
MMDadoda
2/17/2020 10:35:13 AM



#40
Benzene
Concen: 22.541 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.0	19.6	29.4	





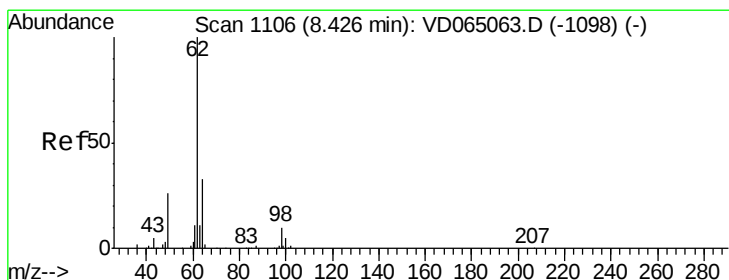
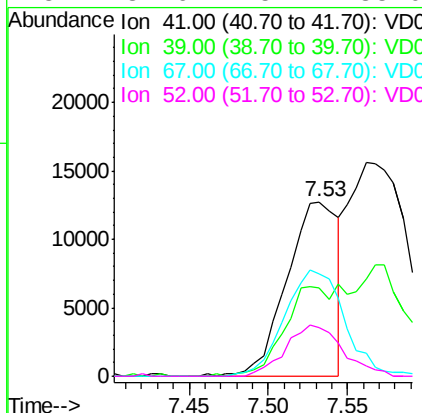
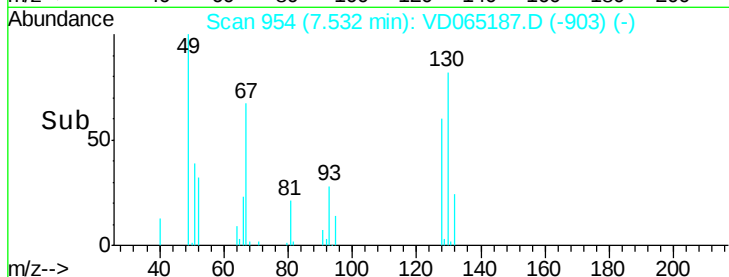
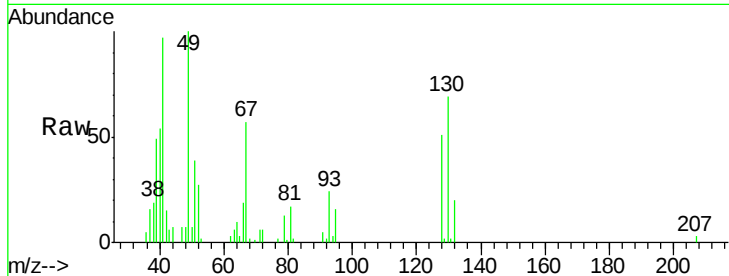
#41
Methacrylonitrile
Concen: 20.876 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	45.2	55.4	83.0#
67	71.0	59.0	88.6
52	32.6	25.4	38.0

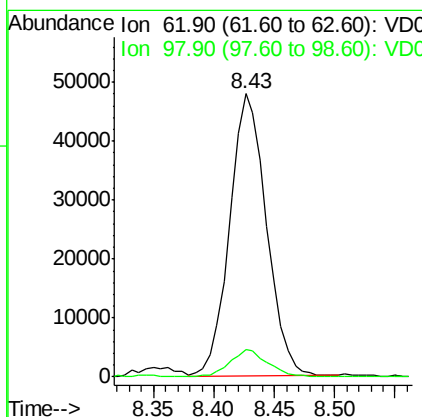
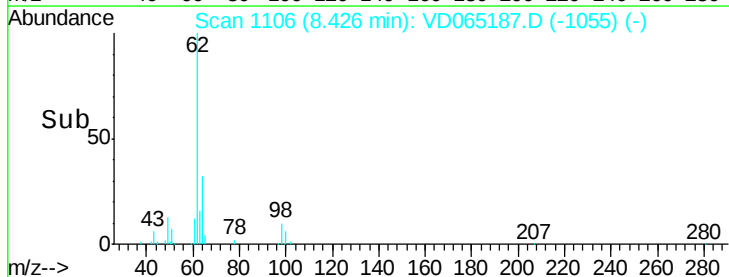
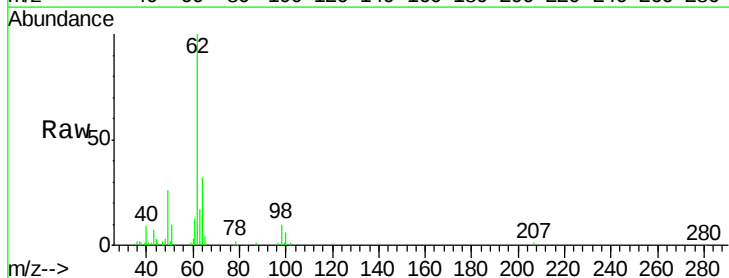
Manual Integrations
APPROVED

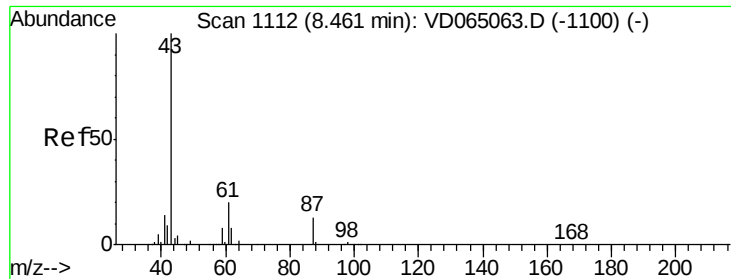
MMDadoda
2/17/2020 10:35:13 AM



#42
1,2-Dichloroethane
Concen: 21.223 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.6





#43

Isopropyl Acetate

Concen: 20.021 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

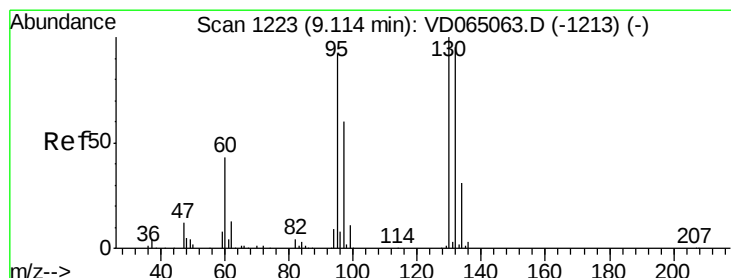
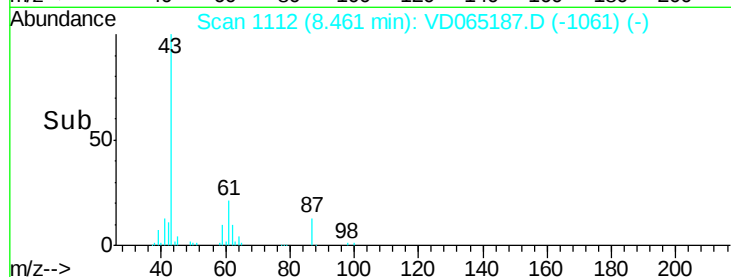
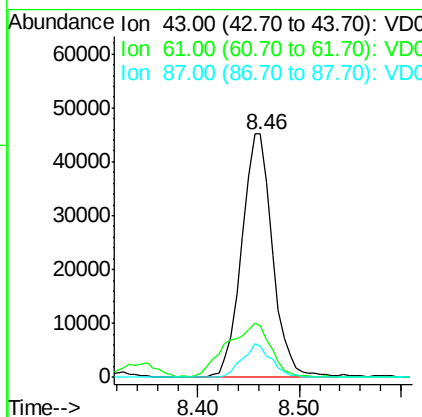
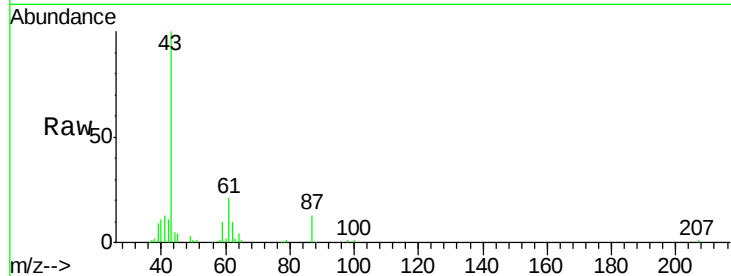
ClientSampleId :

VD0214SBS01

Tot Ion:	43	Resp:	95241
Ion	Ratio	Lower	Upper
43	100		
61	31.9	24.0	36.0
87	12.9	10.2	15.4

Manual Integrations
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#44

Trichloroethene

Concen: 21.421 ug/l

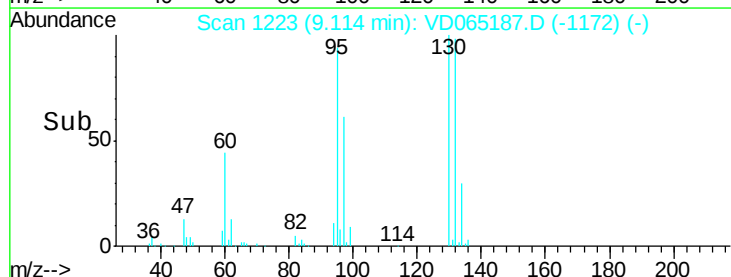
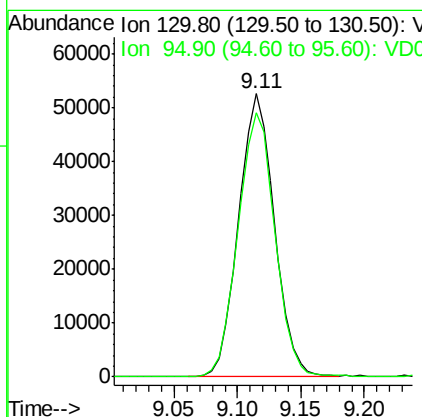
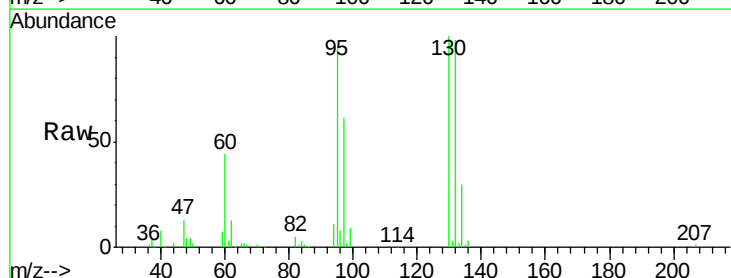
RT: 9.11 min Scan# 1223

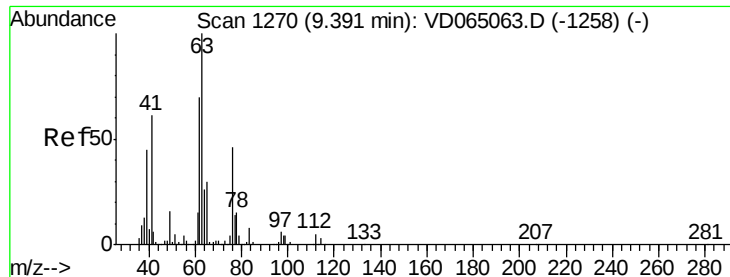
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	130	Resp:	103356
Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	185.0





#45

1,2-Dichloropropane

Concen: 22.936 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 63 Resp: 92440

Ion Ratio Lower Upper

63 100

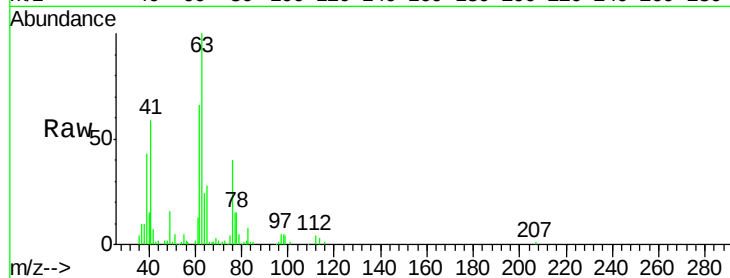
65 28.0 23.9 35.9

Manual Integrations

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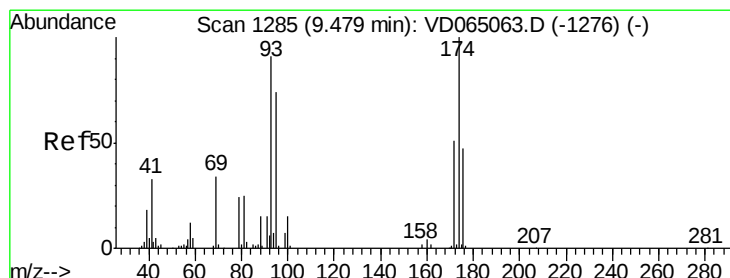
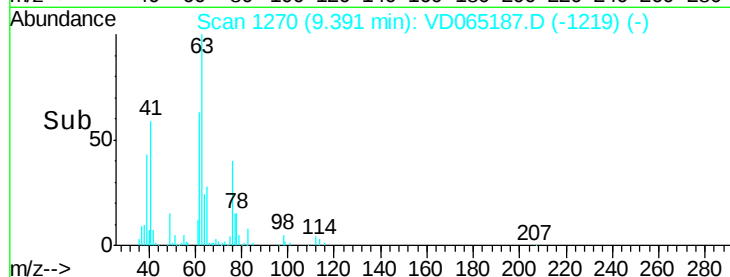
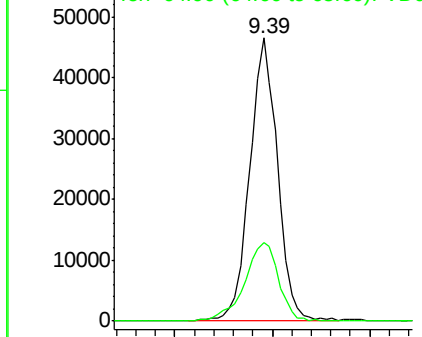
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 21.765 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

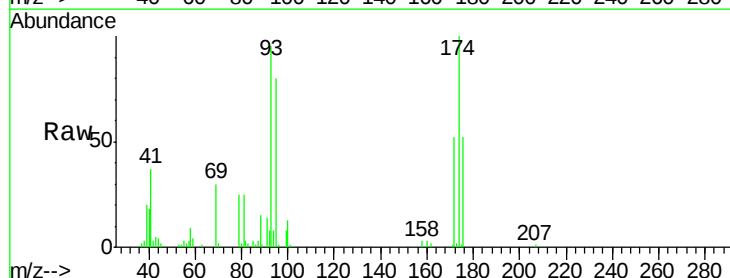
Tgt Ion: 93 Resp: 46094

Ion Ratio Lower Upper

93 100

95 86.7 66.5 99.7

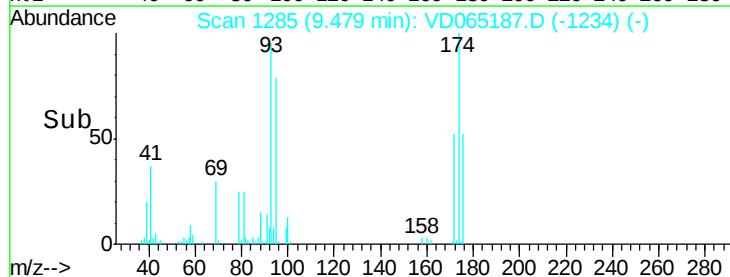
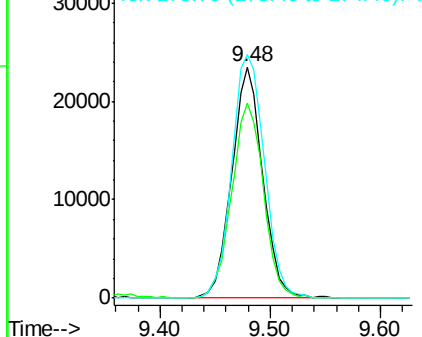
174 111.7 89.8 134.8

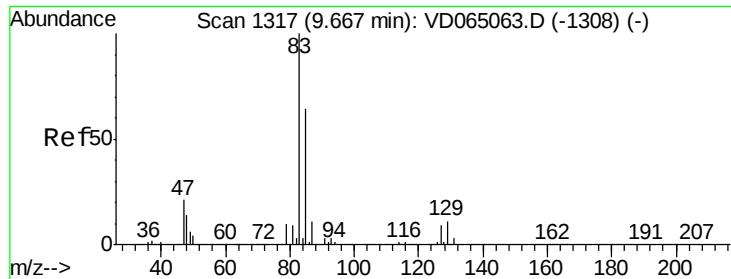


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





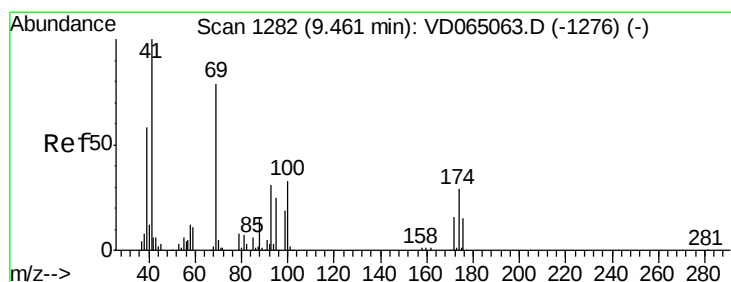
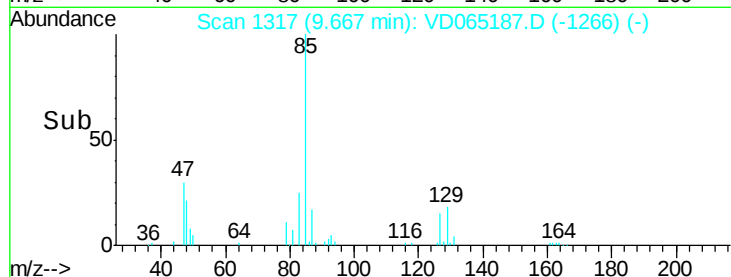
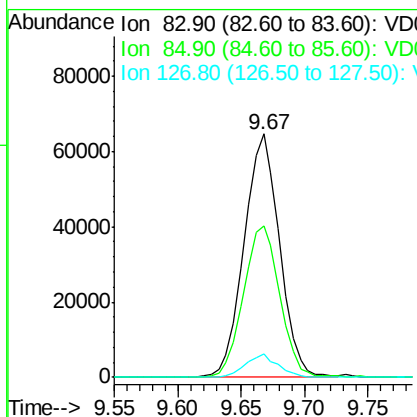
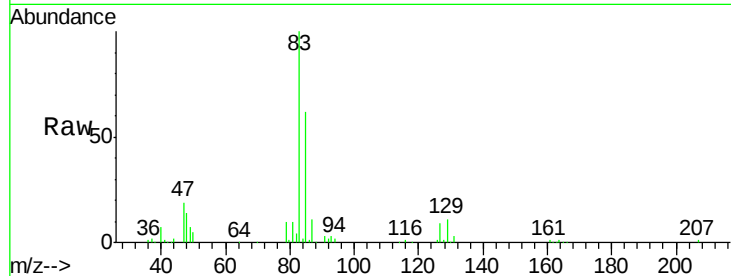
#47
Bromodichloromethane
Concen: 22.515 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	125639		
85	62.3		51.0	76.6
127	9.5		7.3	10.9

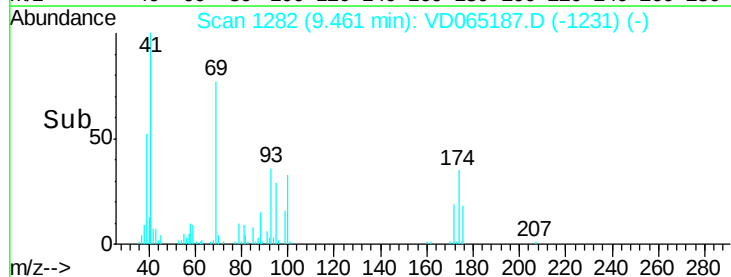
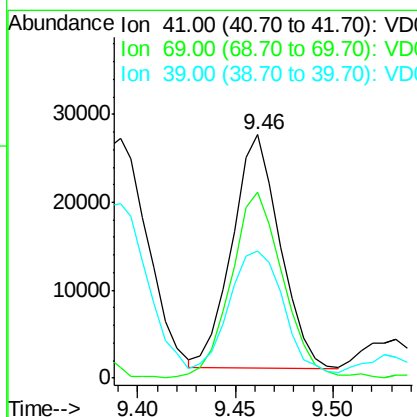
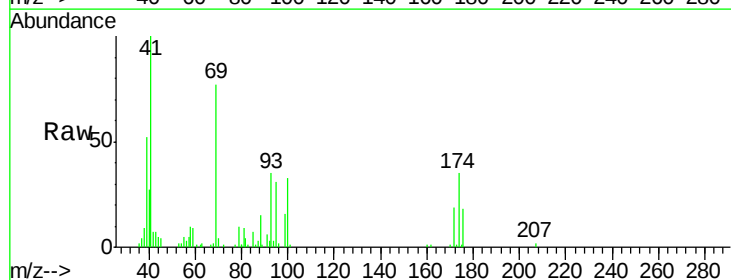
Manual Integrations
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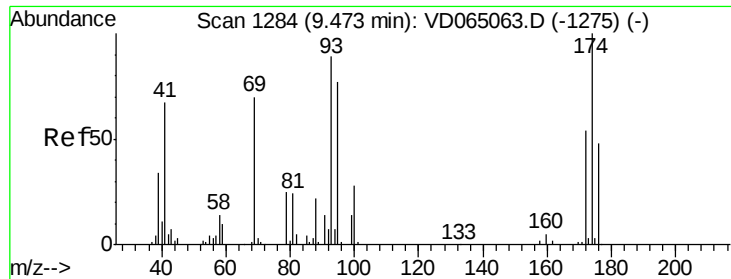
MMDadoda
2/17/2020 10:35:13 AM



#48
Methyl methacrylate
Concen: 19.596 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	44857		
69	87.3		67.5	101.3
39	58.9		47.0	70.4





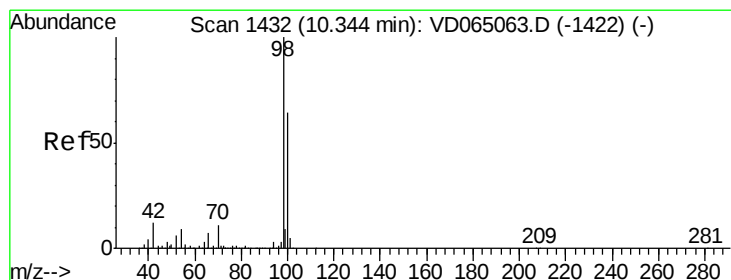
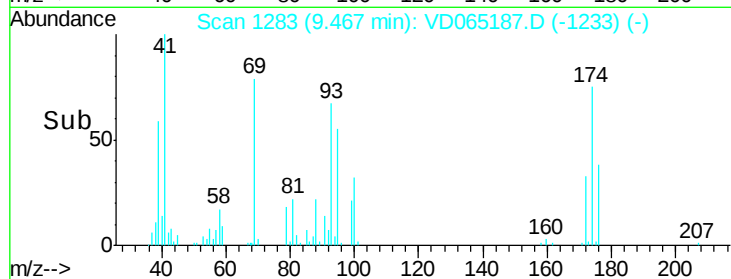
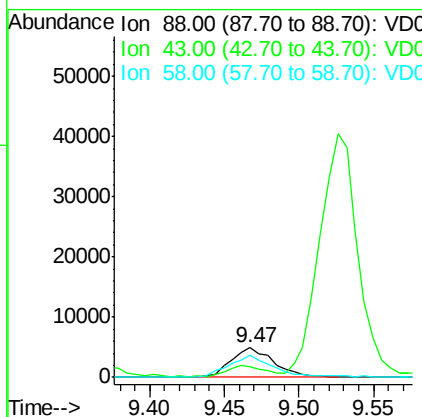
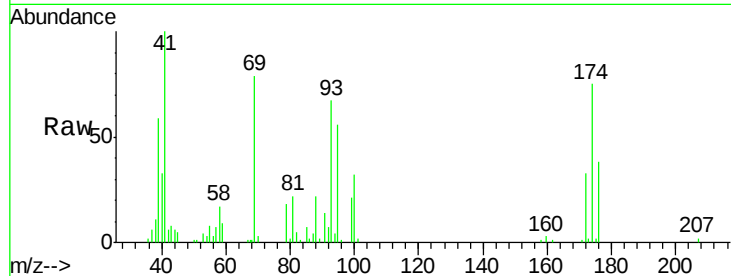
#49
1,4-Dioxane
Concen: 392.957 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.9	27.7	41.5
58	76.9	55.5	83.3

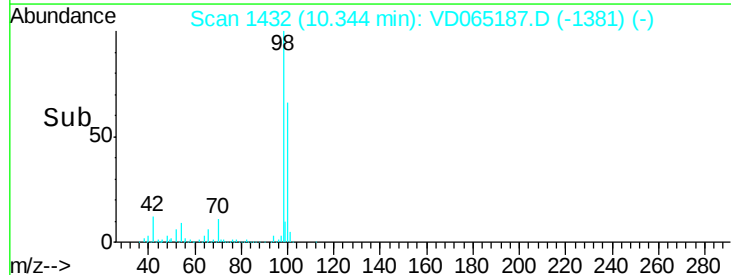
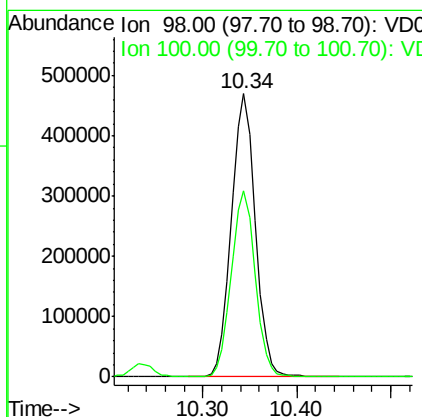
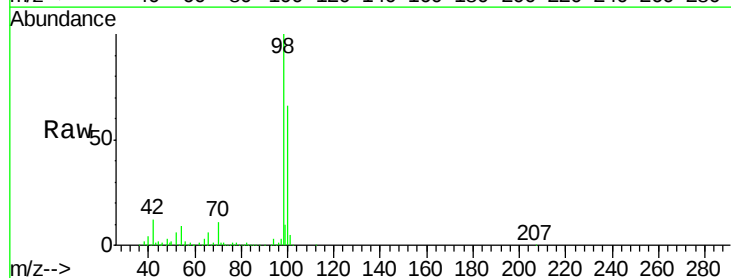
Manual Integrations
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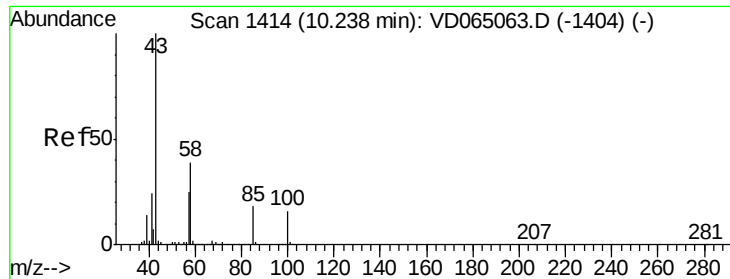
MMDadoda
2/17/2020 10:35:13 AM



#50
Toluene-d8
Concen: 57.415 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 102.350 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 43 Resp: 239659

Ion Ratio Lower Upper

43 100

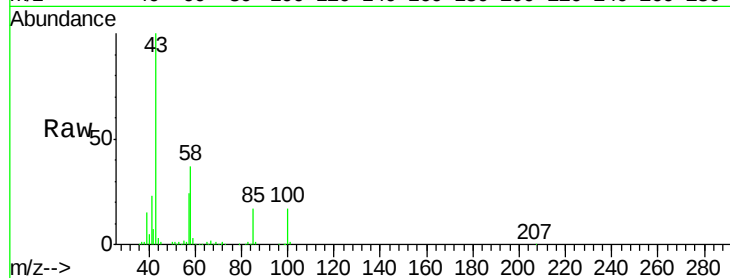
58 37.7 30.2 45.2

Manual Integrations

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MMDadoda

2/17/2020 10:35:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

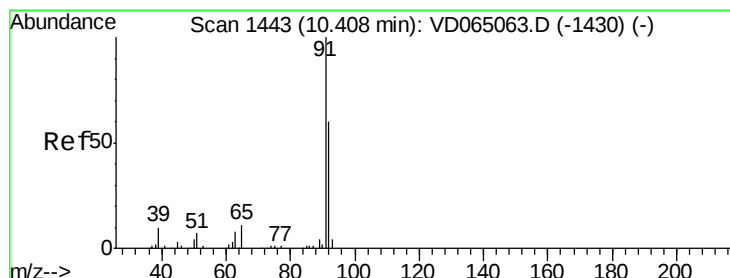
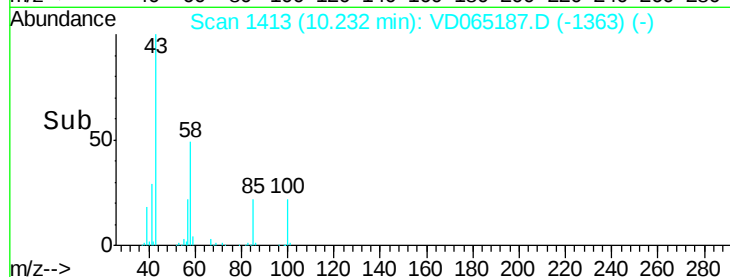
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 22.319 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065187.D

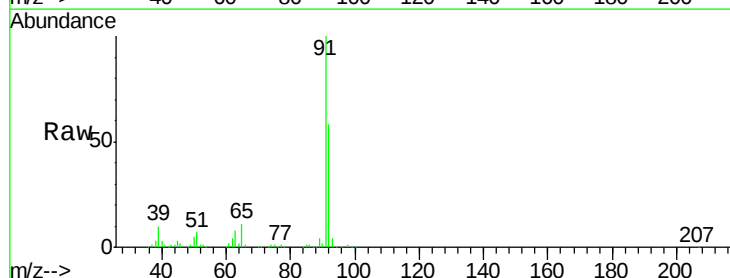
Acq: 14 Feb 2020 14:53

Tgt Ion: 92 Resp: 239454

Ion Ratio Lower Upper

92 100

91 173.6 135.3 202.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.41

250000

200000

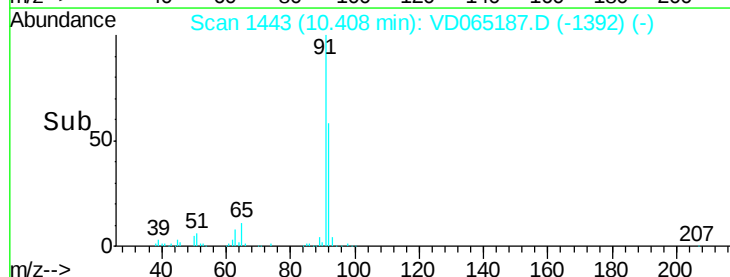
150000

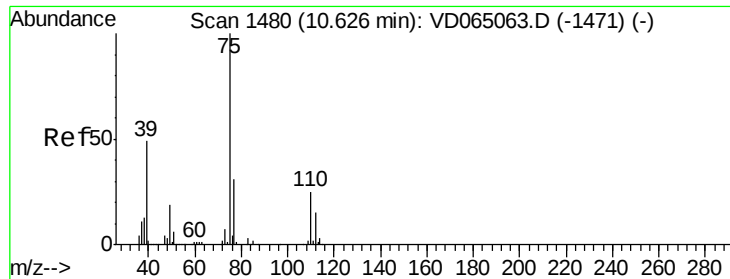
100000

50000

0

Time-->





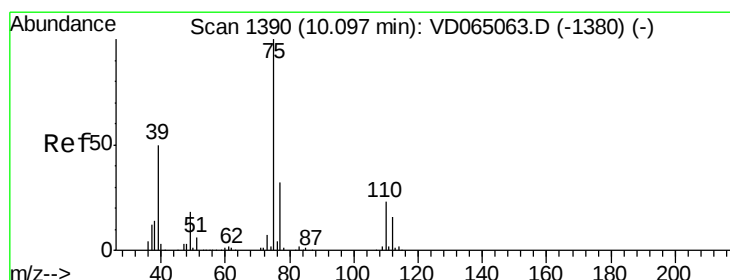
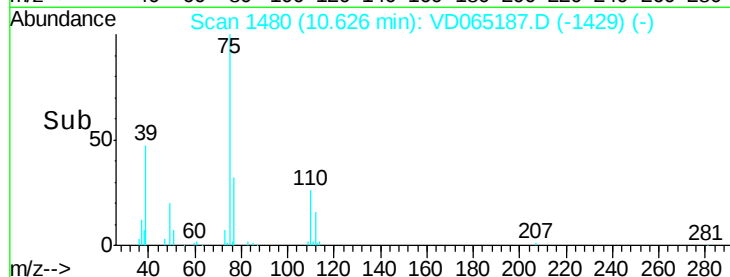
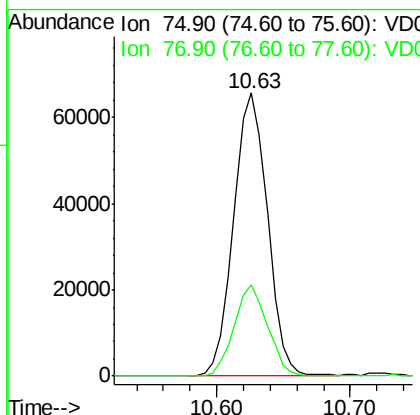
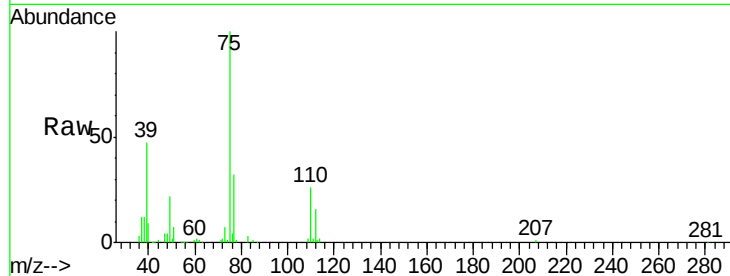
#53
t-1,3-Dichloropropene
Concen: 21.325 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3

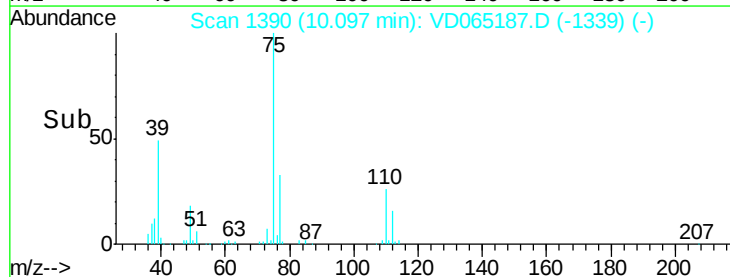
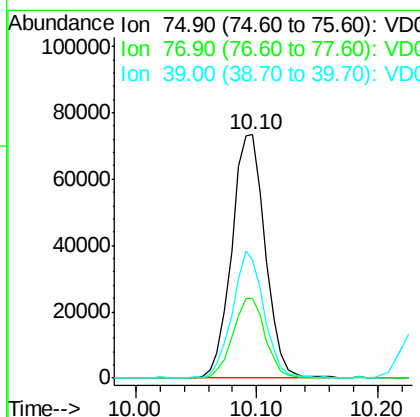
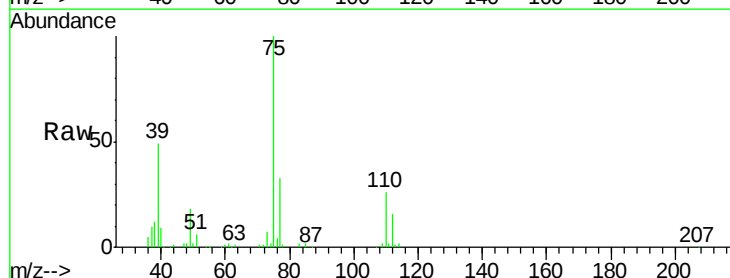
Manual Integrations
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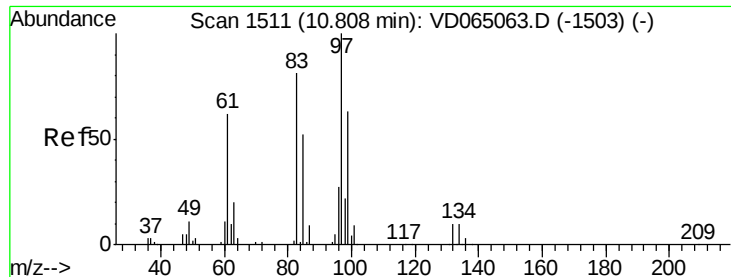
MMDadoda
2/17/2020 10:35:13 AM



#54
cis-1,3-Dichloropropene
Concen: 21.801 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.3	37.9
39	48.7	40.3	60.5





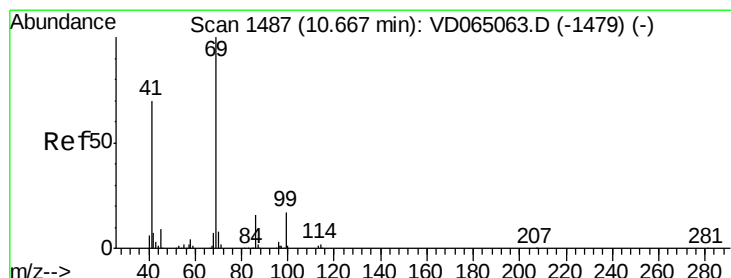
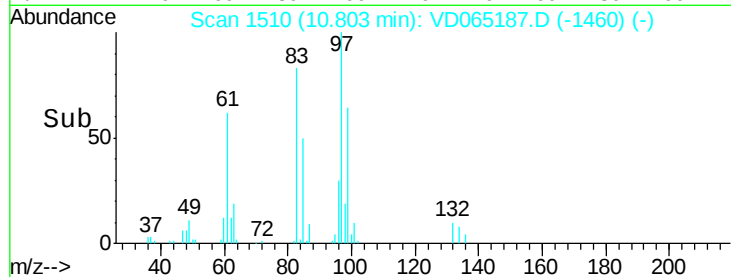
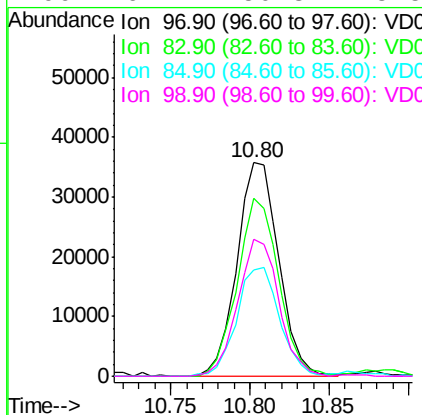
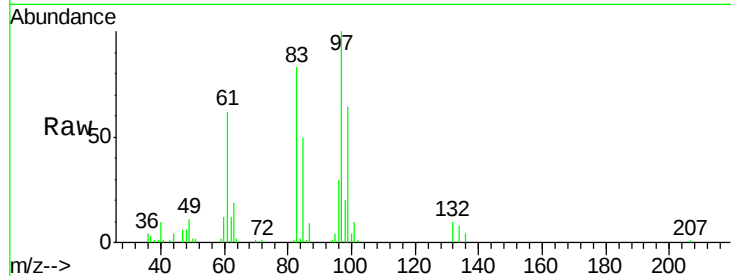
#55
 1,1,2-Trichloroethane
 Concen: 22.571 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBSD01

Tot Ion:	97	Resp:	65568
Ion	Ratio	Lower	Upper
97	100		
83	83.4	64.8	97.2
85	49.6	41.2	61.8
99	64.1	50.3	75.5

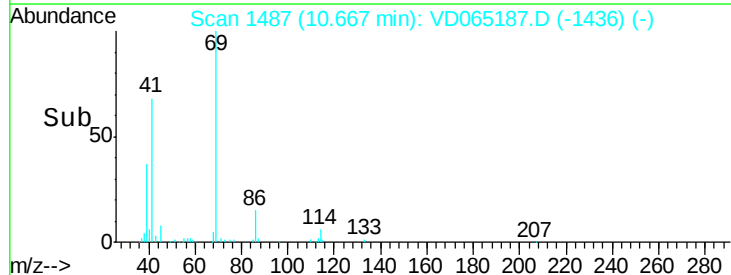
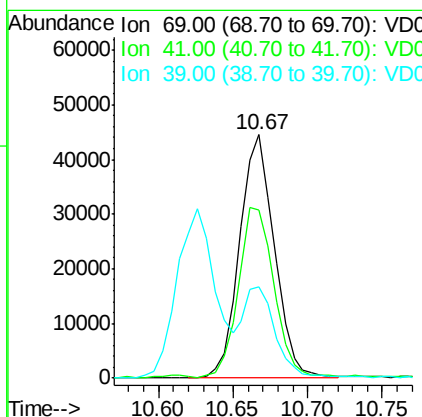
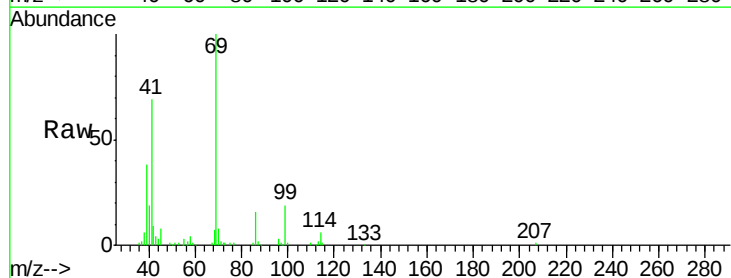
Manual Integrations
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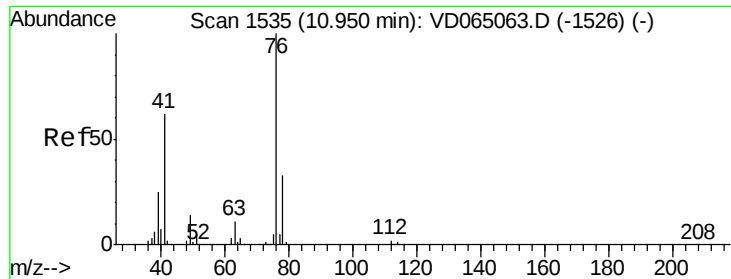
MMDadoda
 2/17/2020 10:35:13 AM



#56
 Ethyl methacrylate
 Concen: 19.609 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion:	69	Resp:	72072
Ion	Ratio	Lower	Upper
69	100		
41	71.2	55.9	83.9
39	35.0	29.4	44.0





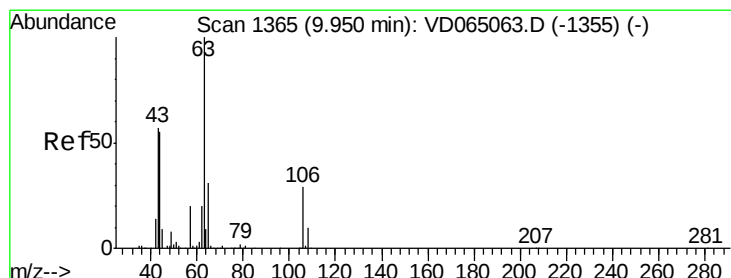
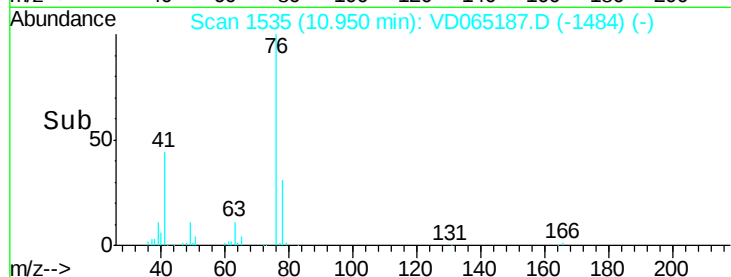
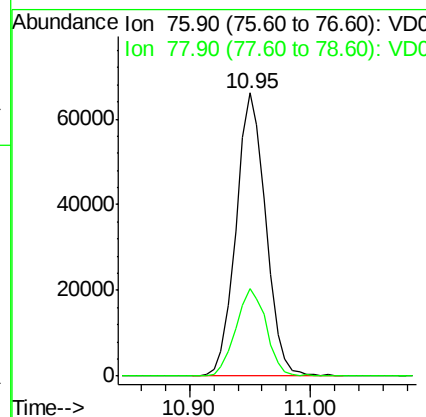
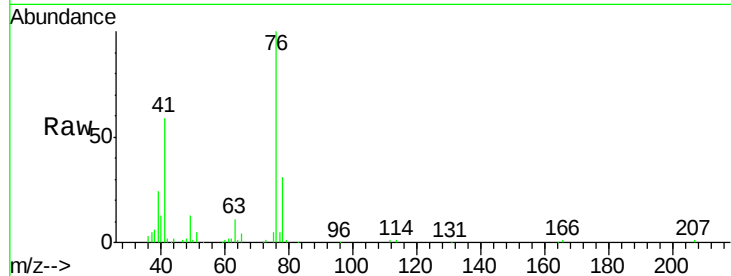
#57
 1,3-Dichloropropane
 Concen: 22.222 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.8	38.6

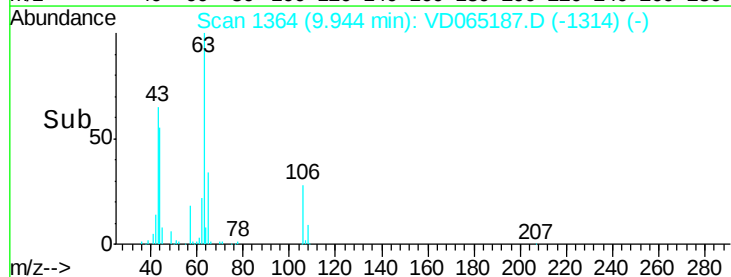
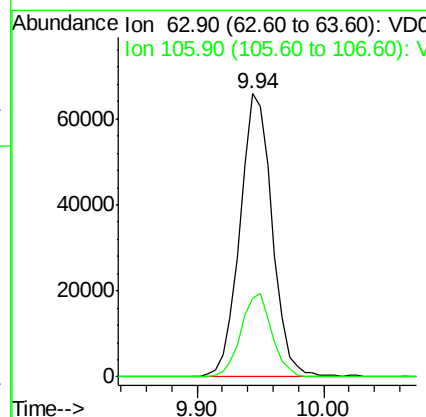
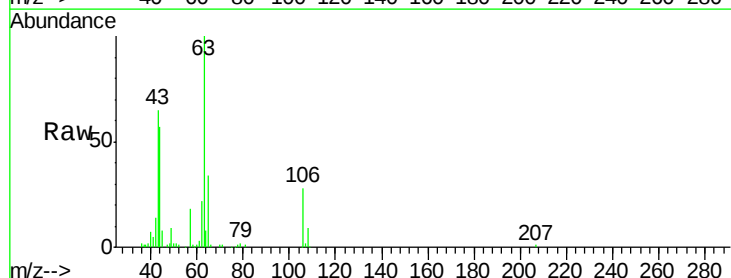
Manual Integrations
 APPROVED

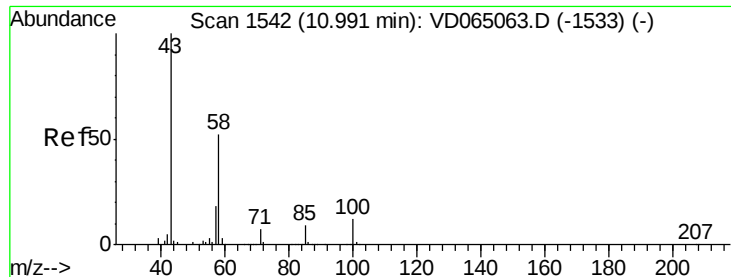
MMDadoda
 2/17/2020 10:35:13 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 84.898 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.4	23.3	34.9





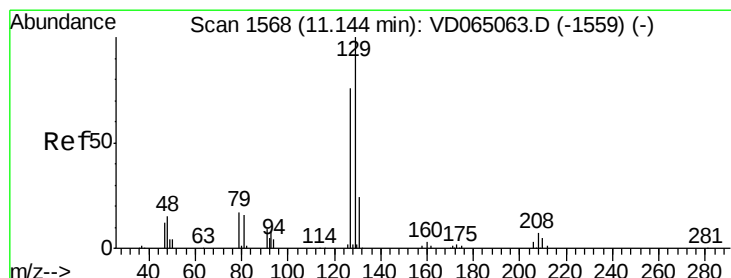
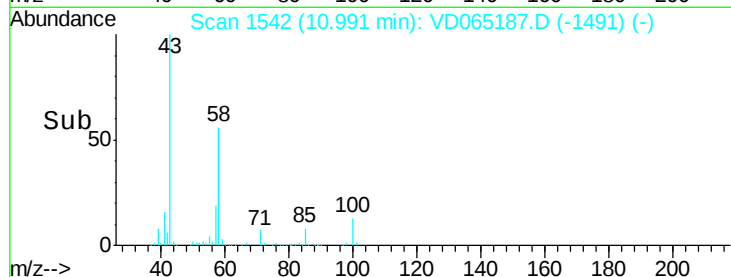
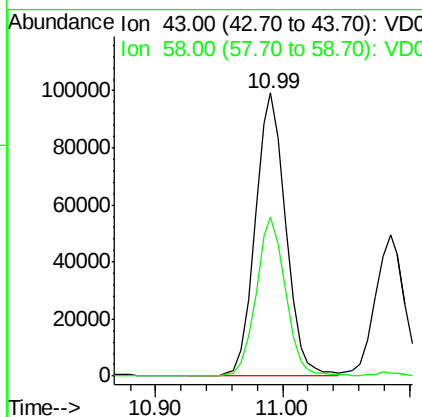
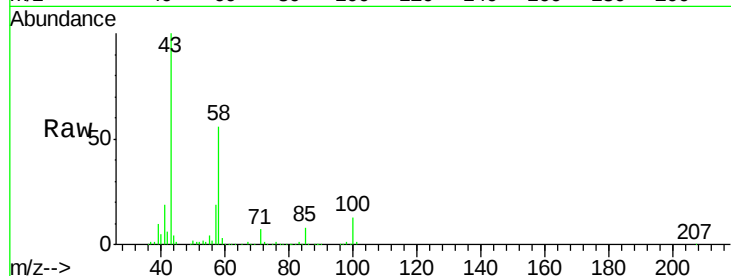
#59
2-Hexanone
Concen: 100.311 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Tot Ion: 43 Resp: 166373
Ion Ratio Lower Upper
43 100
58 54.3 26.2 78.6

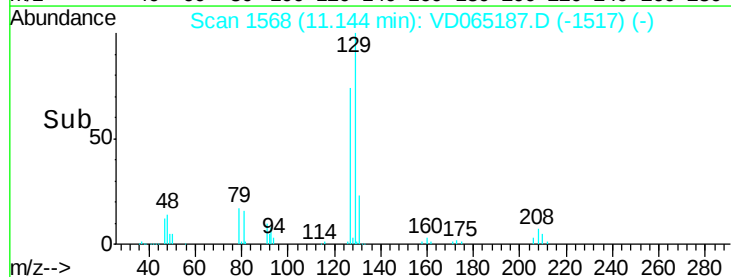
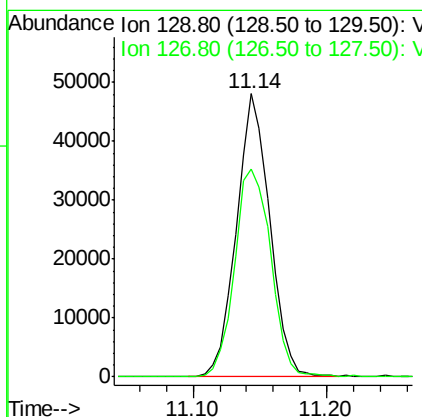
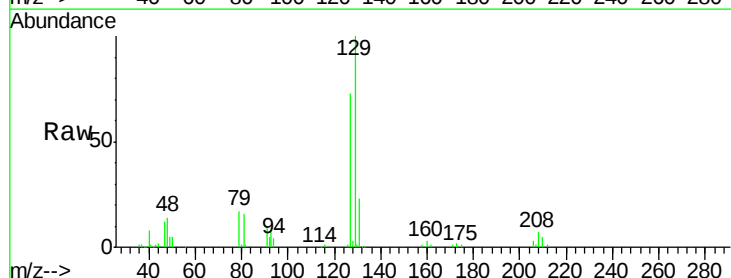
Manual Integrations
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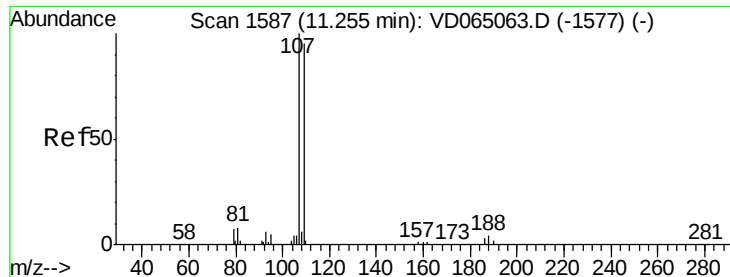
MMDadoda
2/17/2020 10:35:13 AM



#60
Dibromochloromethane
Concen: 22.129 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion: 129 Resp: 83263
Ion Ratio Lower Upper
129 100
127 79.7 38.3 114.9





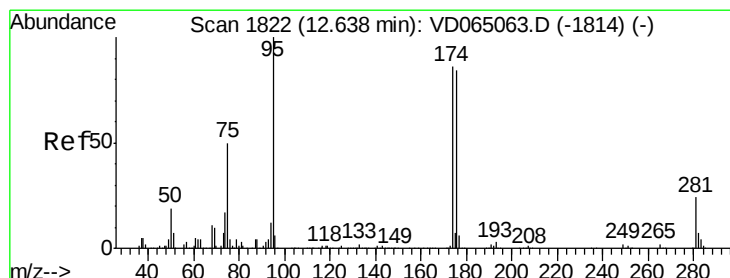
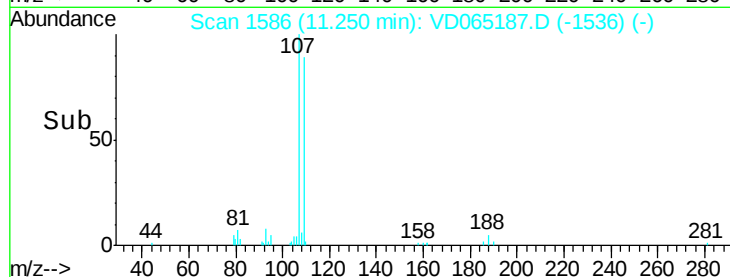
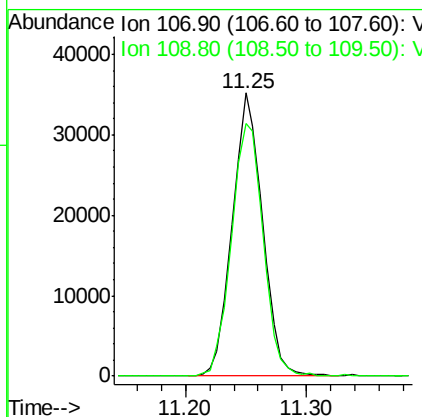
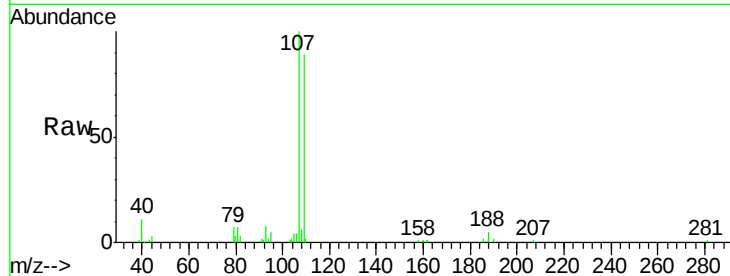
#61
 1,2-Dibromoethane
 Concen: 21.588 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBSD01

Tot Ion: 107 Resp: 61277
 Ion Ratio Lower Upper
 107 100
 109 93.9 75.5 113.3

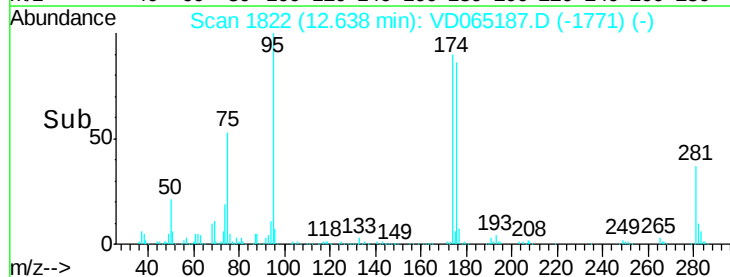
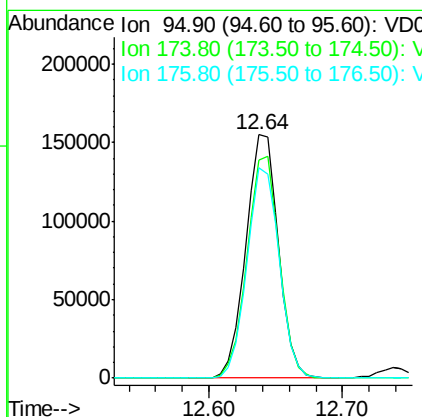
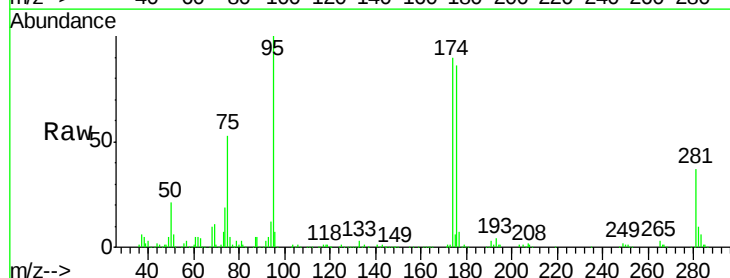
Manual Integrations
 APPROVED

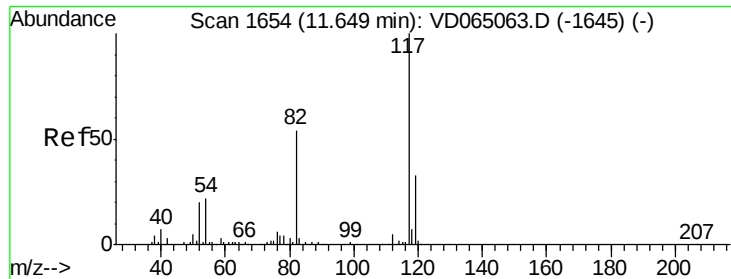
MMDadoda
 2/17/2020 10:35:13 AM



#62
 4-Bromofluorobenzene
 Concen: 56.193 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion: 95 Resp: 258856
 Ion Ratio Lower Upper
 95 100
 174 90.5 0.0 180.0
 176 85.9 0.0 173.2





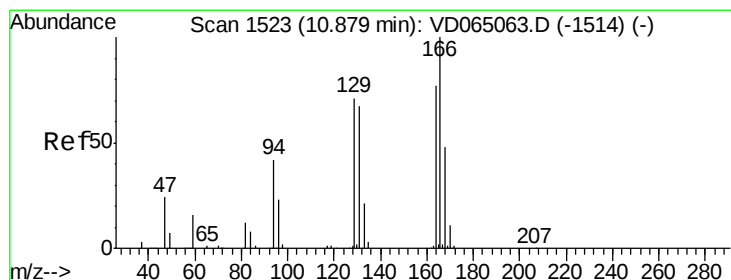
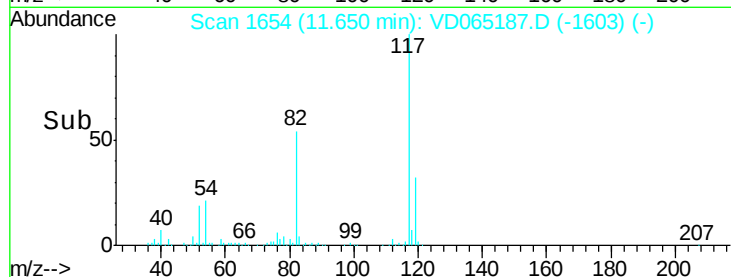
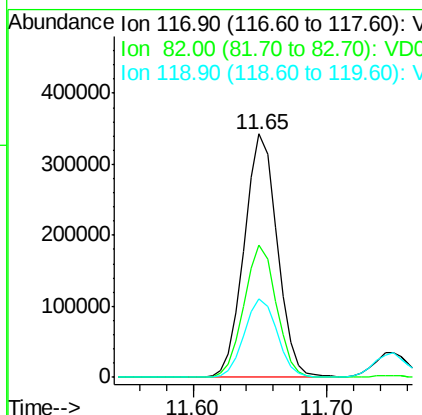
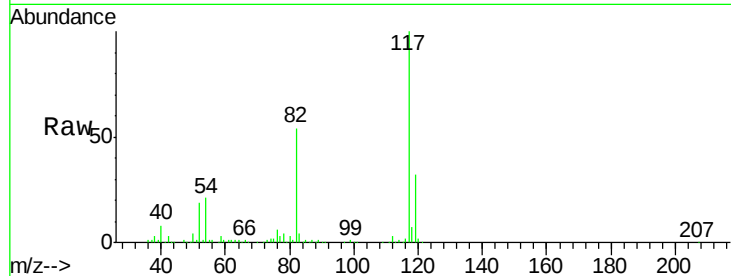
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	584967		
82	54.4	43.1	64.7	
119	32.4	26.0	39.0	

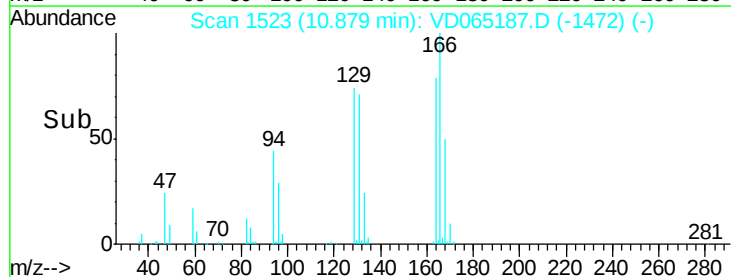
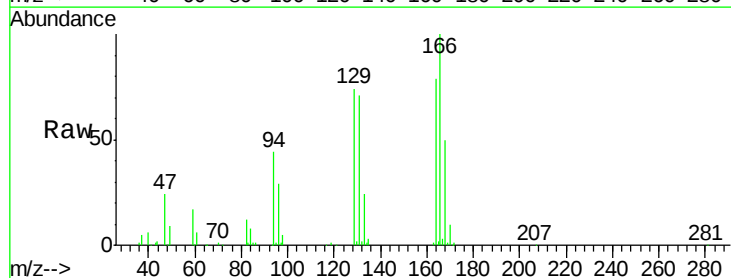
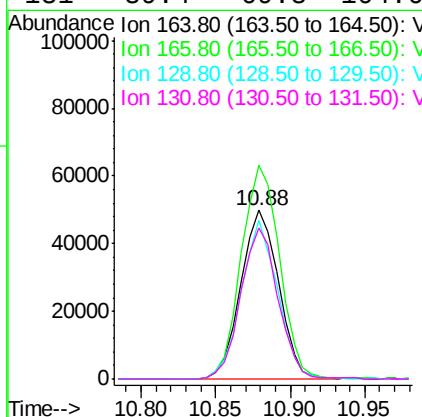
Manual Integrations
APPROVED

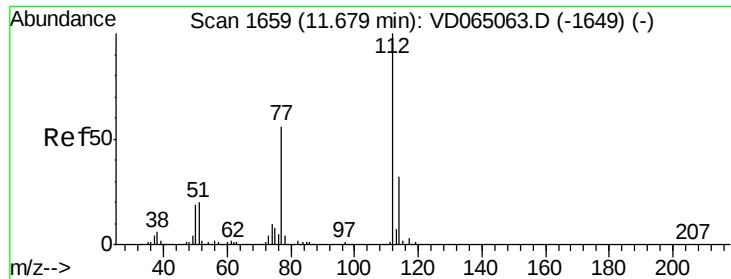
MMDadoda
2/17/2020 10:35:13 AM



#64
Tetrachloroethene
Concen: 20.835 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	87576		
166	126.6	103.5	155.3	
129	94.1	73.3	109.9	
131	89.4	69.8	104.6	





#65

Chlorobenzene

Concen: 21.937 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion:112 Resp: 248204

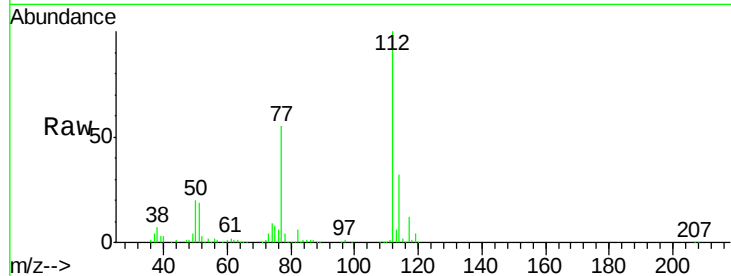
Ion Ratio Lower Upper

112 100

114 32.4 25.4 38.0

Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.68

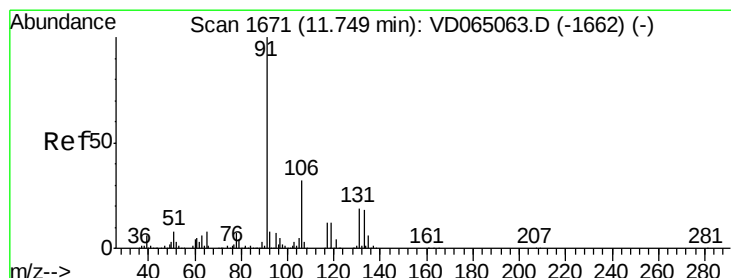
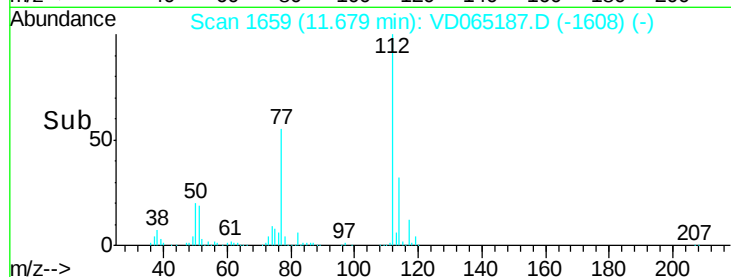
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 21.585 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

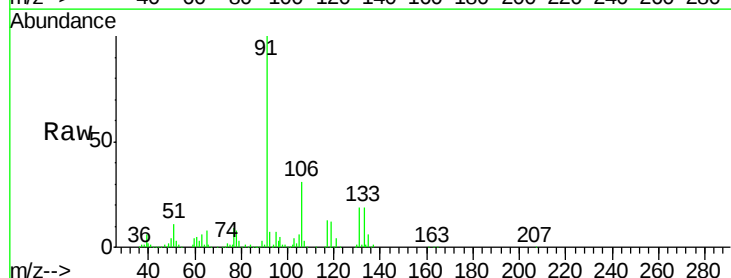
Tgt Ion:131 Resp: 90135

Ion Ratio Lower Upper

131 100

133 99.9 47.7 143.1

119 65.3 31.3 93.8



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.75

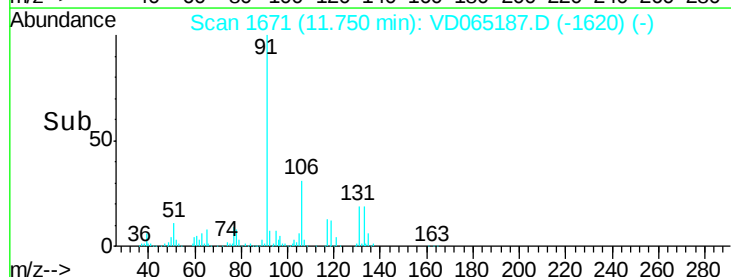
150000

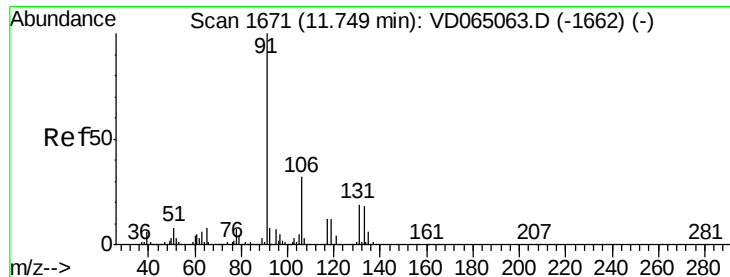
100000

50000

0

Time-->





#67

Ethyl Benzene

Concen: 21.276 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 91 Resp: 437336

Ion Ratio Lower Upper

91 100

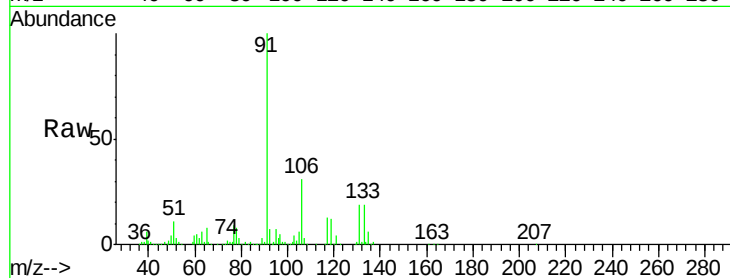
106 30.5 25.4 38.2

Manual Integrations

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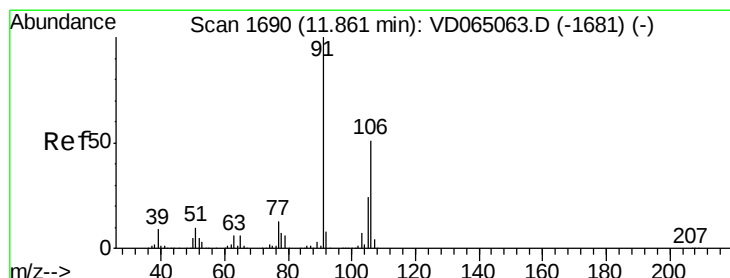
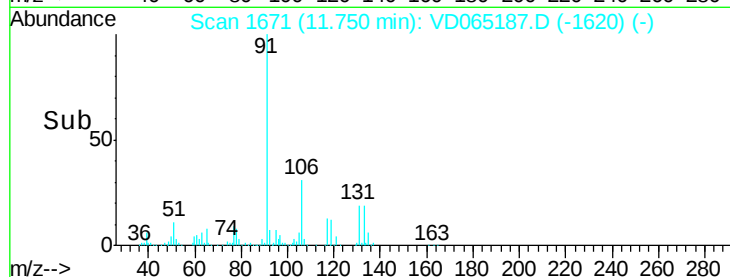
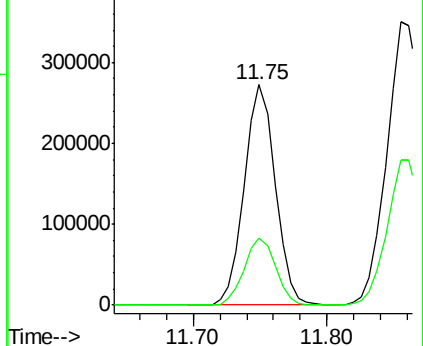
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VD065187.D (-1670) (-)

Ion 106.00 (105.70 to 106.70): VD065187.D (-1670) (-)



#68

m/p-Xylenes

Concen: 43.368 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VD065187.D

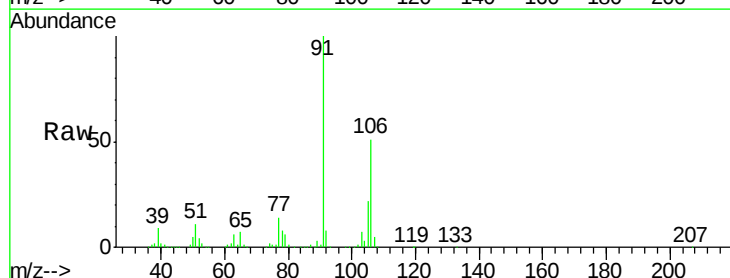
Acq: 14 Feb 2020 14:53

Tgt Ion: 106 Resp: 340246

Ion Ratio Lower Upper

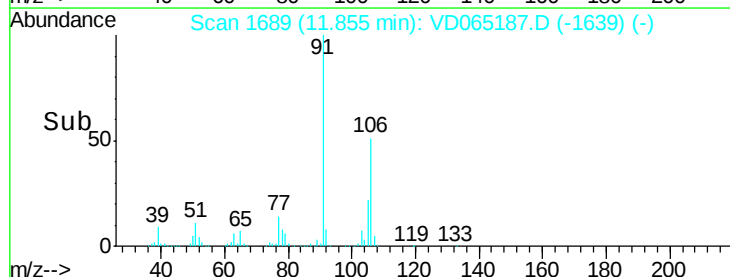
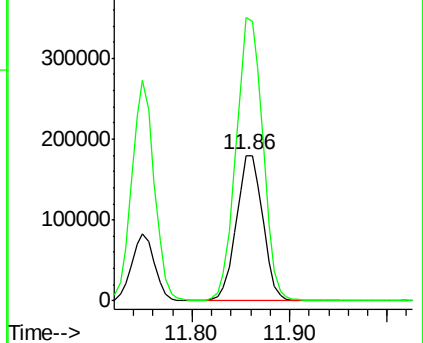
106 100

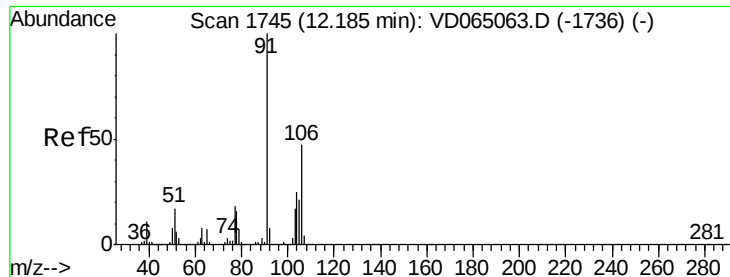
91 197.0 158.9 238.3



Abundance Ion 106.00 (105.70 to 106.70): VD065187.D (-1689) (-)

Ion 91.00 (90.70 to 91.70): VD065187.D (-1689) (-)





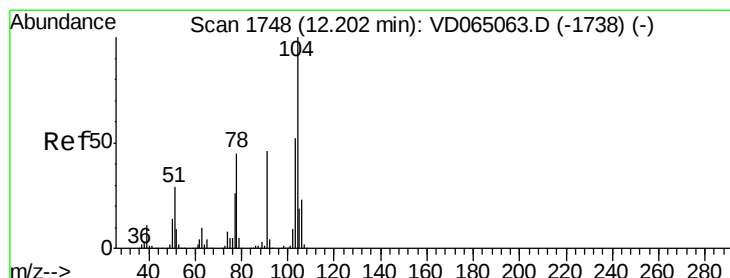
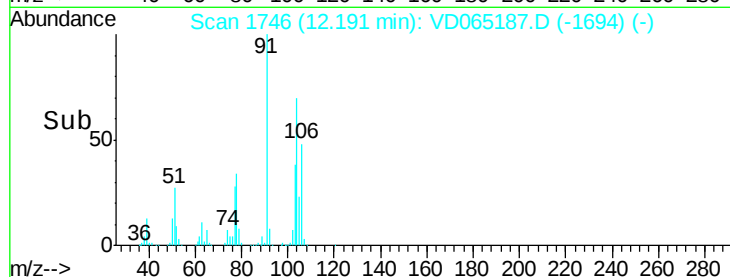
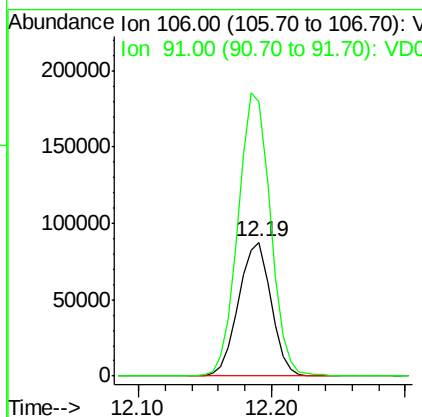
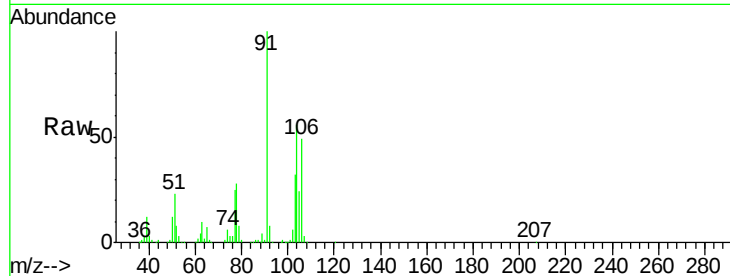
#69
o-Xylene
Concen: 20.963 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		148101		
91	210.6	104.7	313.9		

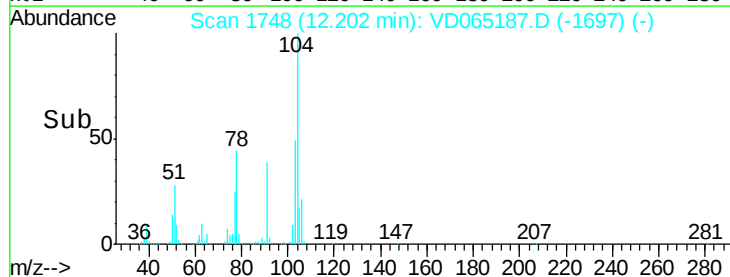
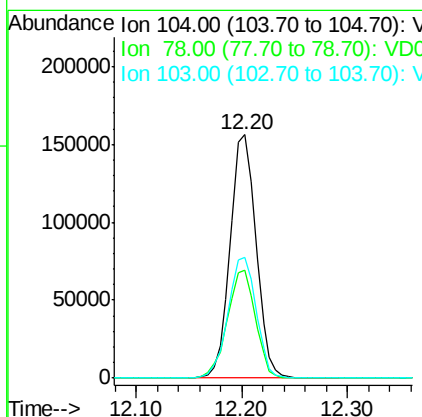
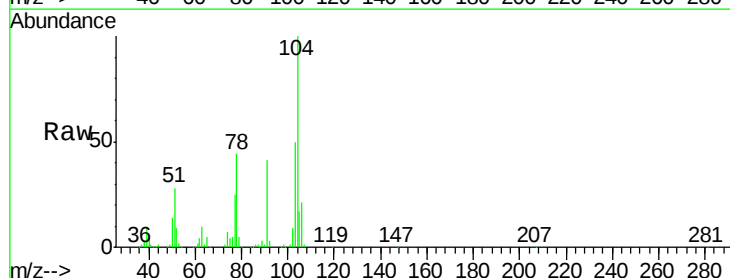
Manual Integrations
APPROVED

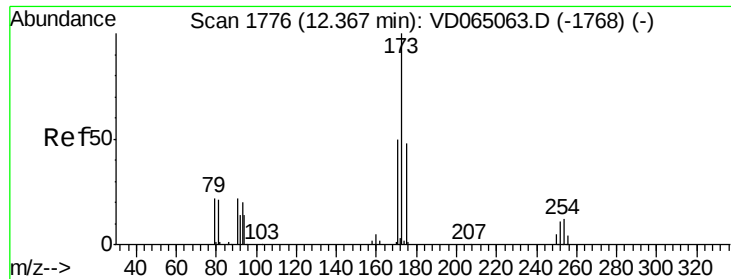
MMDadoda
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#70
Styrene
Concen: 21.532 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		264394		
78	47.8	38.5	57.7		
103	54.0	43.8	65.8		





#71

Bromoform

Concen: 21.846 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

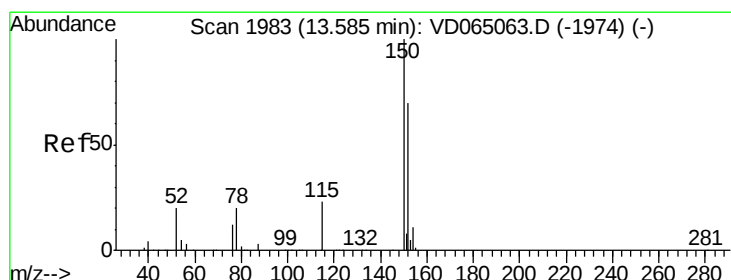
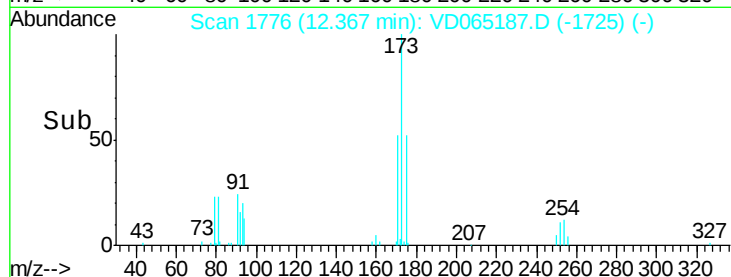
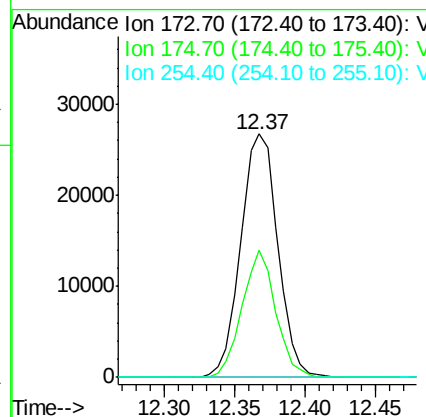
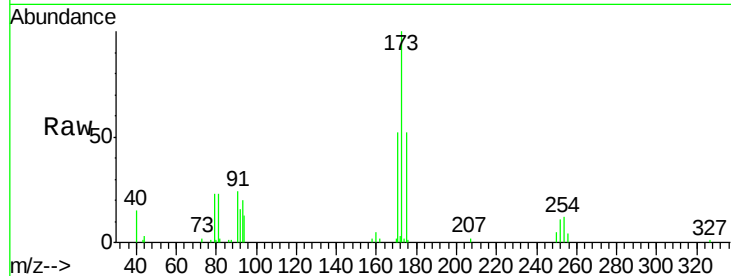
ClientSampleId :

VD0214SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.3	72.8
254	0.0	0.1	0.1

Manual Integrations
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2/17/2020 10:35:13 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

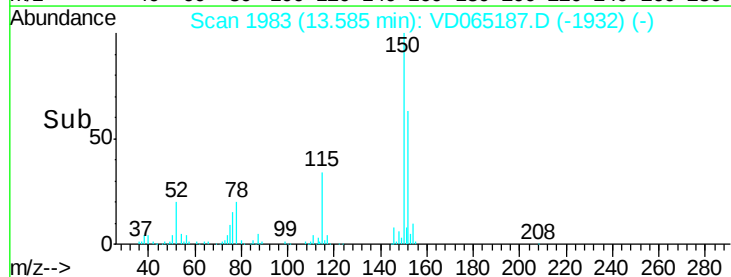
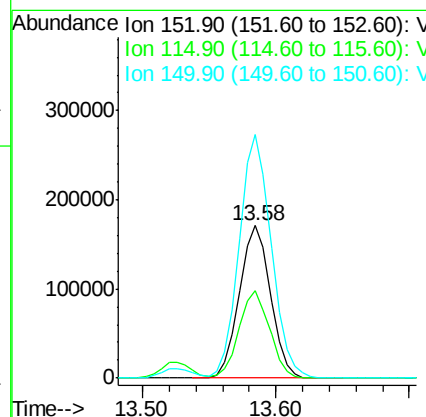
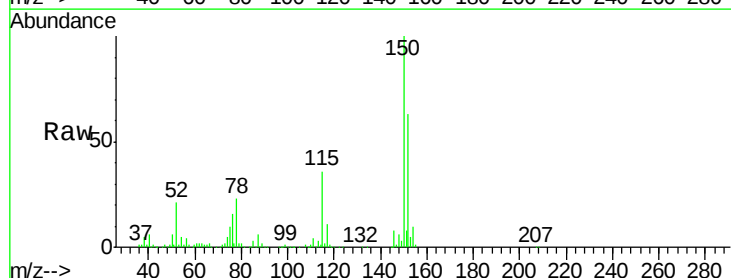
RT: 13.58 min Scan# 1983

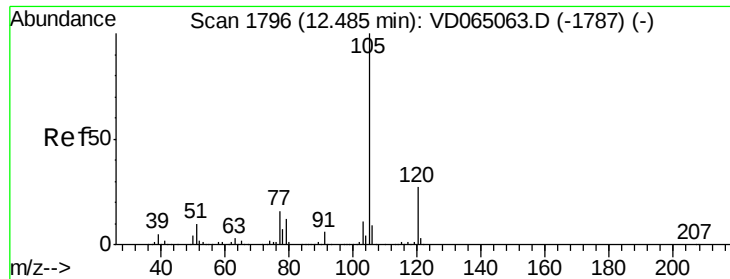
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	27.5	82.4
150	163.9	0.0	343.2





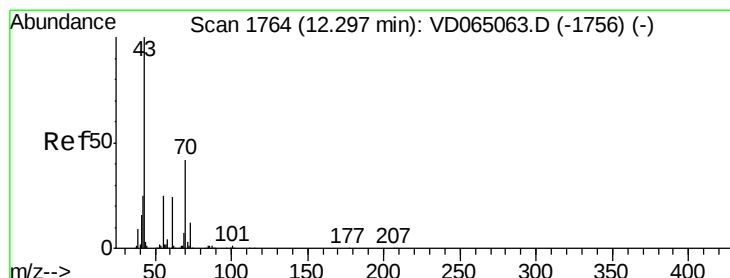
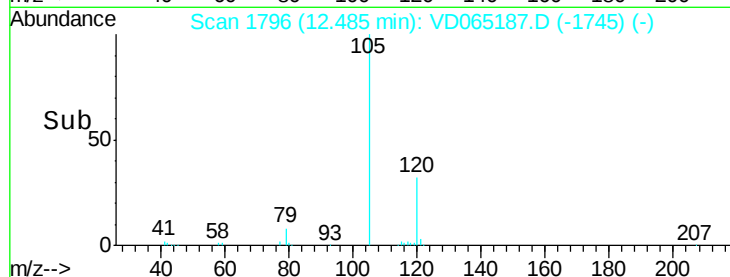
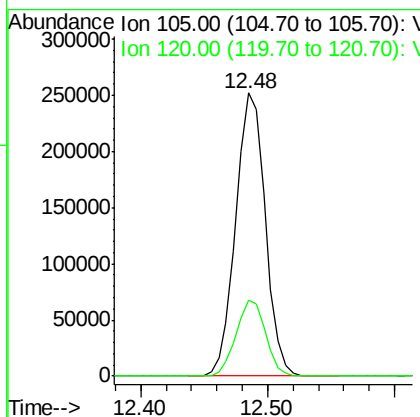
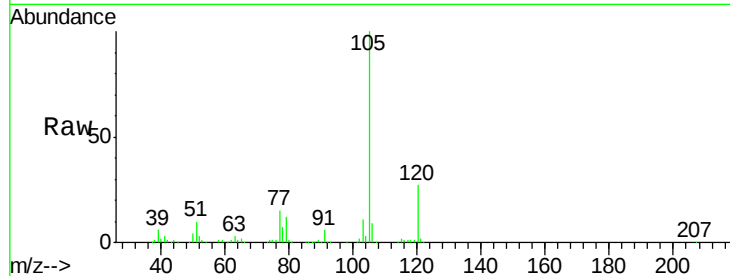
#73
Isopropylbenzene
Concen: 21.417 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.3	39.9

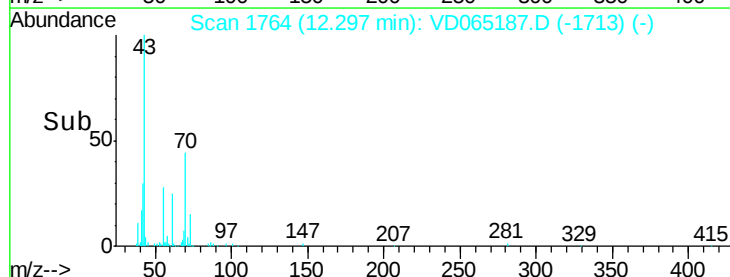
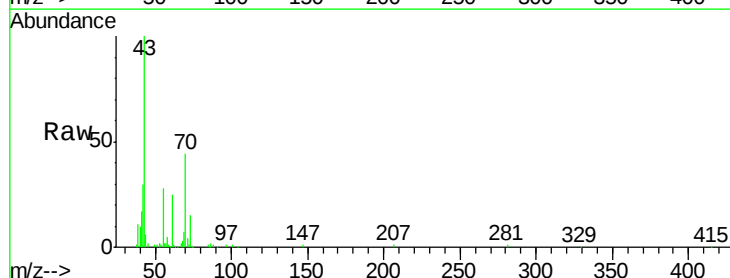
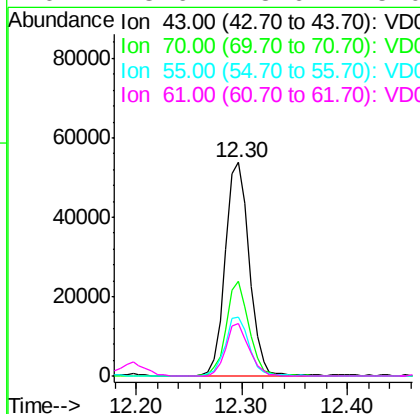
Manual Integrations
APPROVED

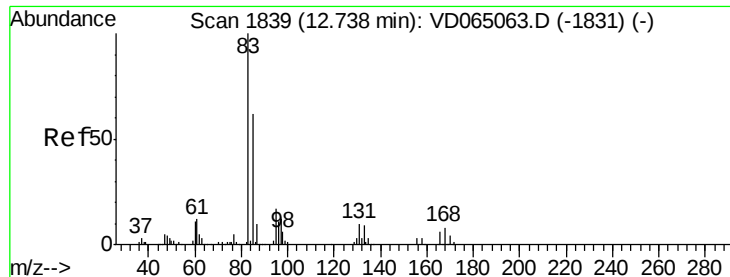
MMDadoda
2/17/2020 10:35:13 AM



#74
N-ethyl acetate
Concen: 20.611 ug/l
RT: 12.30 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.2	33.5	50.3
55	27.5	19.4	29.2
61	23.6	18.6	28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 23.232 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

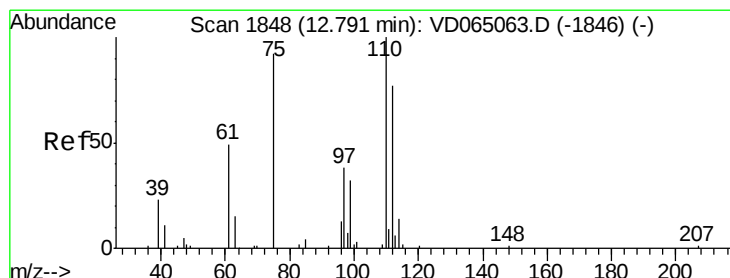
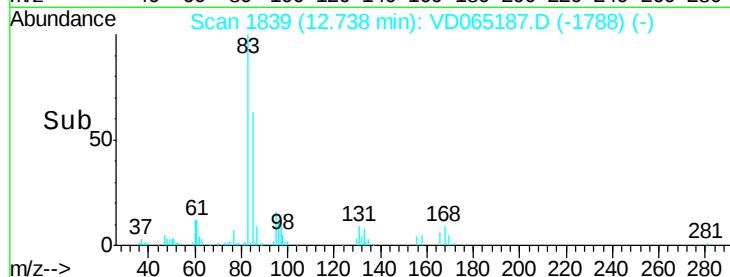
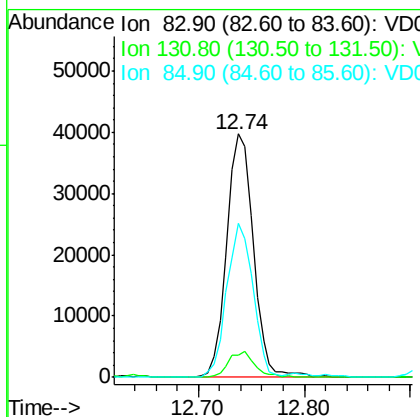
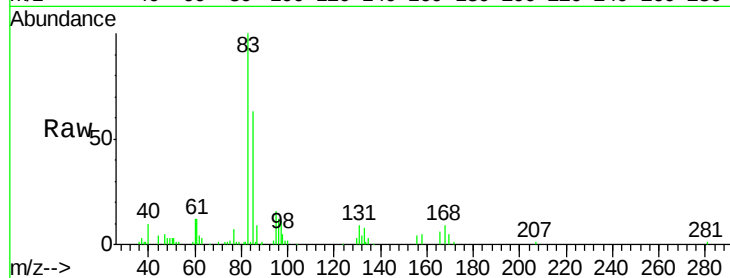
ClientSampleId :

VD0214SBS01

Tot Ion:	83	Resp:	69370
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.5	16.4
85	61.8	31.8	95.4

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#76

1,2,3-Trichloropropane

Concen: 22.058 ug/l m

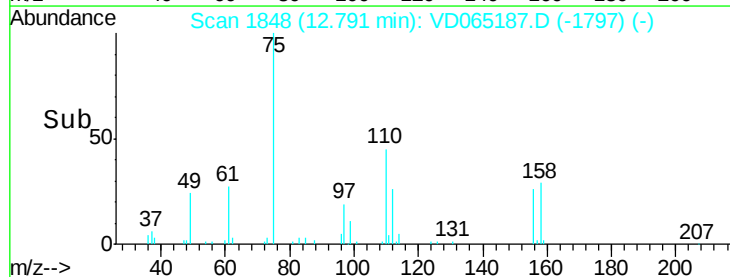
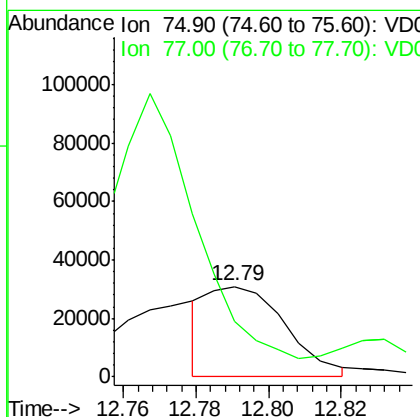
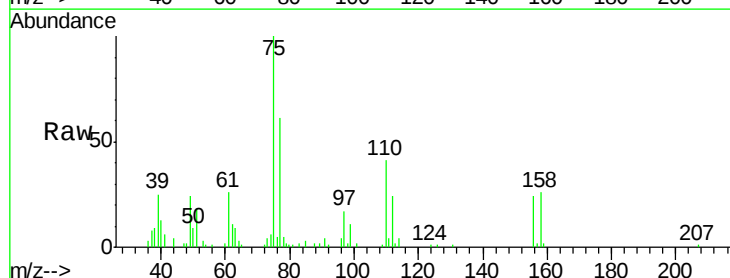
RT: 12.79 min Scan# 1848

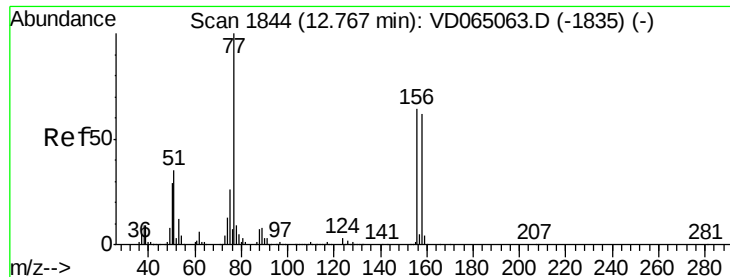
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	75	Resp:	46163
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.165 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

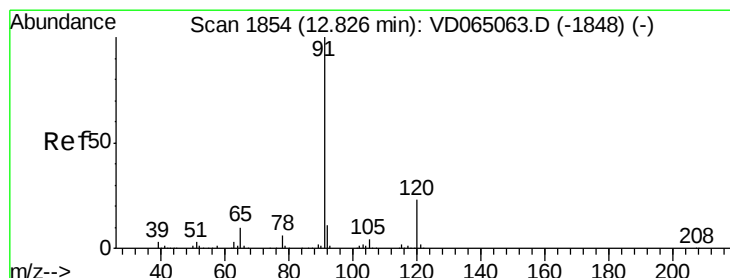
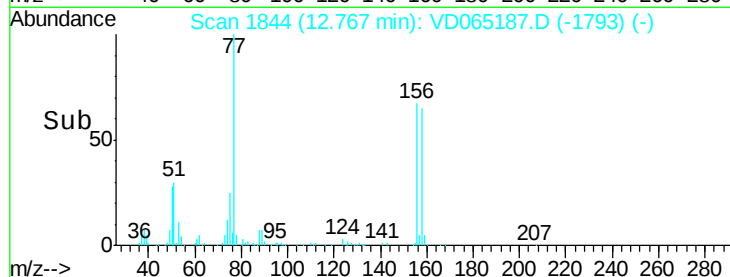
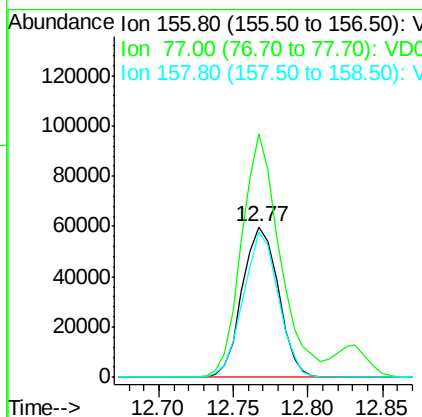
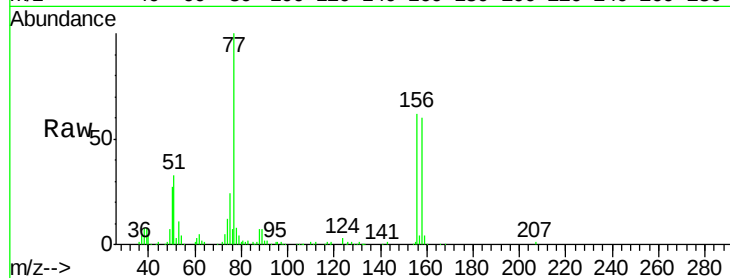
ClientSampleId :

VD0214SBSD01

Tot Ion:	156	Resp:	101316
Ion Ratio	Lower	Upper	
156	100		
77	170.4	85.6	256.8
158	93.5	47.4	142.2

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#78

n-propylbenzene

Concen: 22.263 ug/l

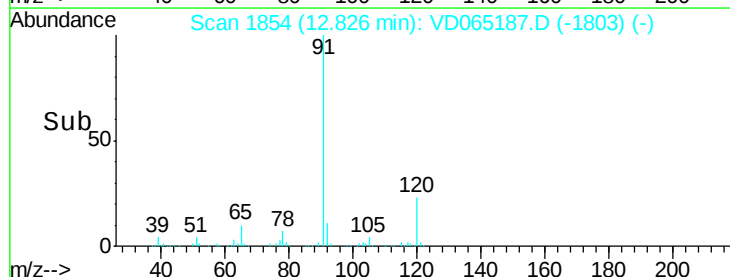
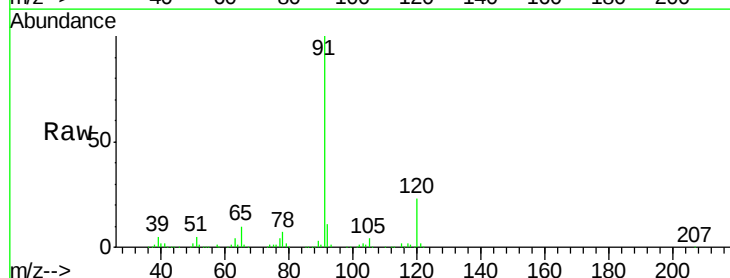
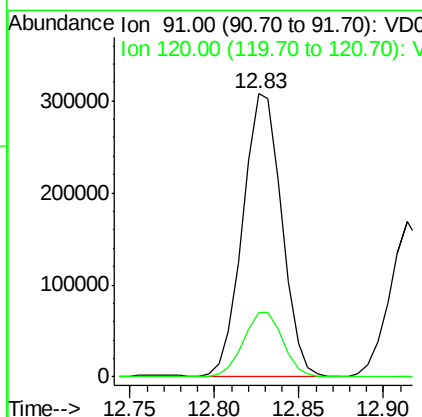
RT: 12.83 min Scan# 1854

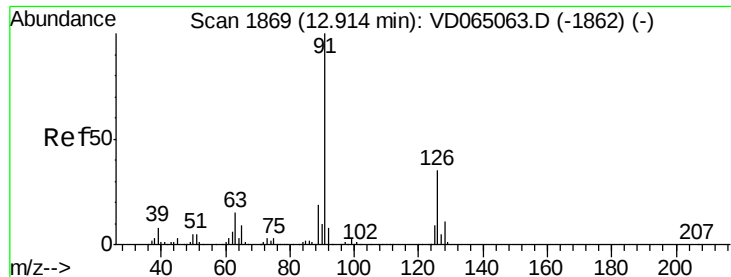
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	91	Resp:	494643
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.8	35.3





#79

2-Chlorotoluene

Concen: 22.100 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

ClientSampleId :

VD0214SBS01

Tot Ion: 91 Resp: 273696

Ion Ratio Lower Upper

91 100

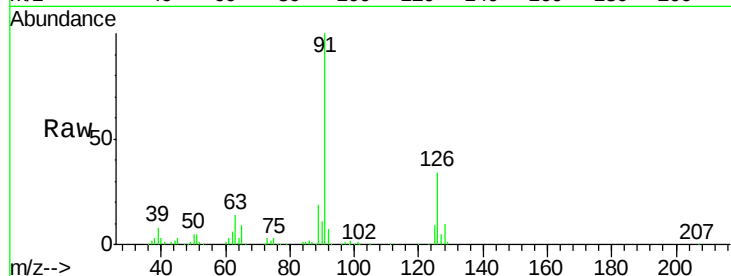
126 34.8 17.4 52.3

Manual Integrations

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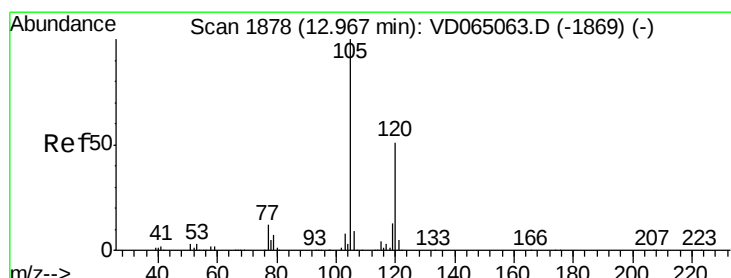
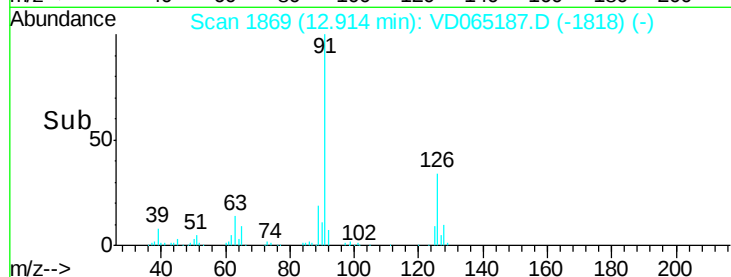
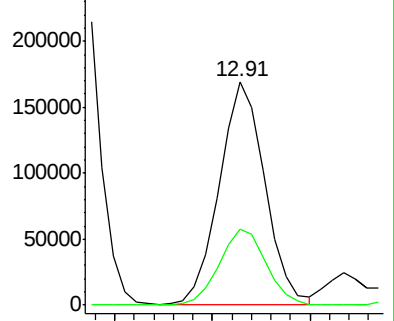
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Abundance Ion 91.00 (90.70 to 91.70): VD065187.D (-1818) (-)

Ion 125.90 (125.60 to 126.60): VD065187.D (-1818) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.588 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065187.D

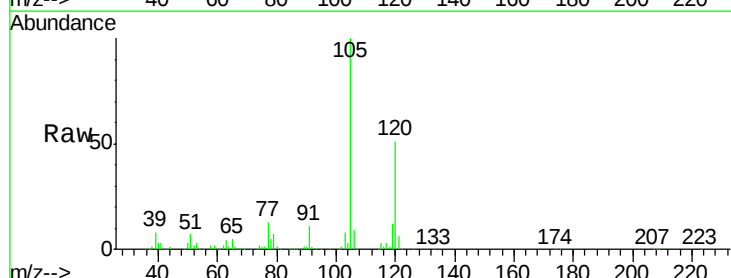
Acq: 14 Feb 2020 14:53

Tgt Ion: 105 Resp: 335066

Ion Ratio Lower Upper

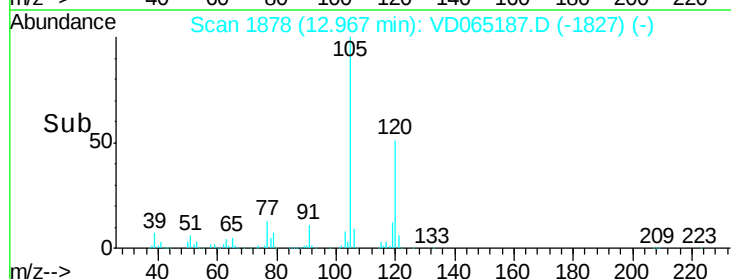
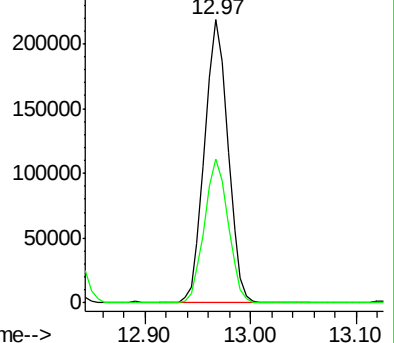
105 100

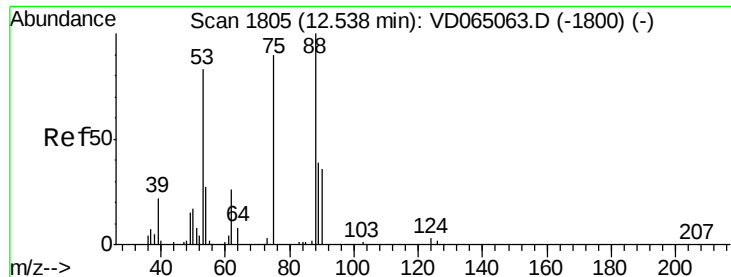
120 51.2 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): VD065187.D (-1827) (-)

Ion 120.00 (119.70 to 120.70): VD065187.D (-1827) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.981 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Instrument :

MSVOA_D

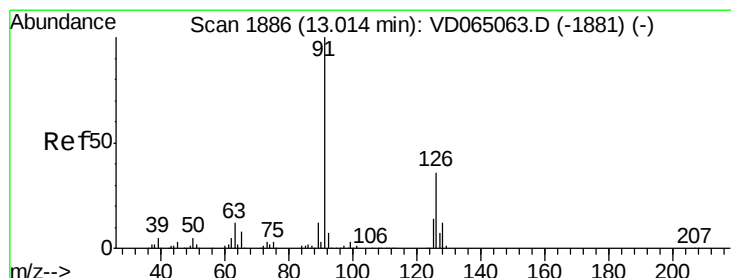
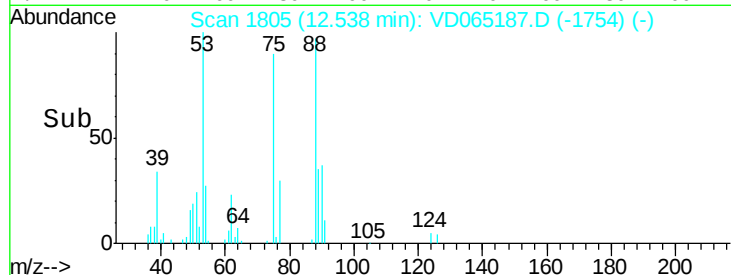
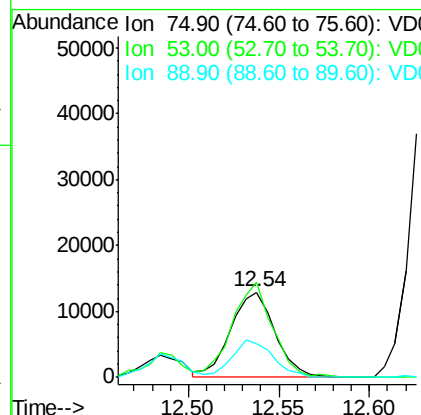
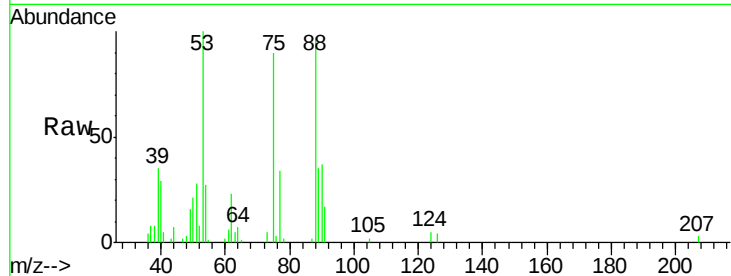
ClientSampleId :

VD0214SBS01

Tot Ion:	75	Resp:	21955
Ion	Ratio	Lower	Upper
75	100		
53	102.6	78.5	117.7
89	40.1	37.0	55.4

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#82

4-Chlorotoluene

Concen: 22.449 ug/l

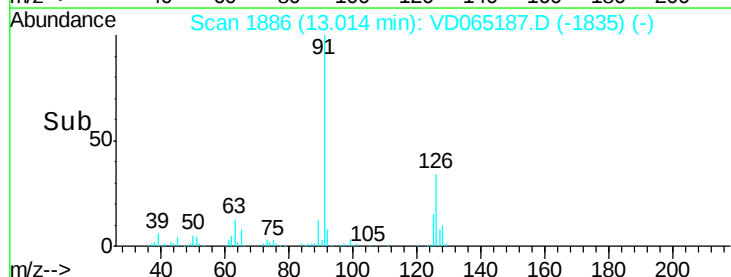
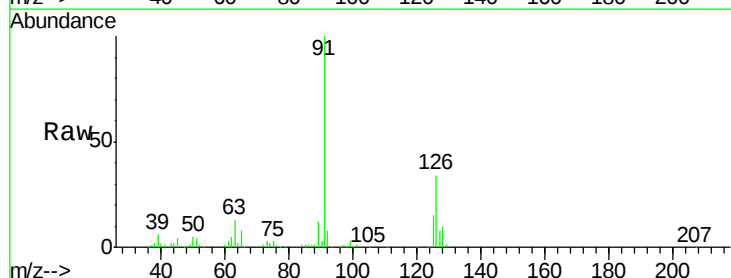
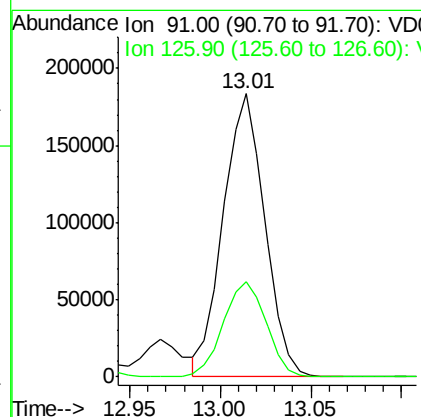
RT: 13.01 min Scan# 1886

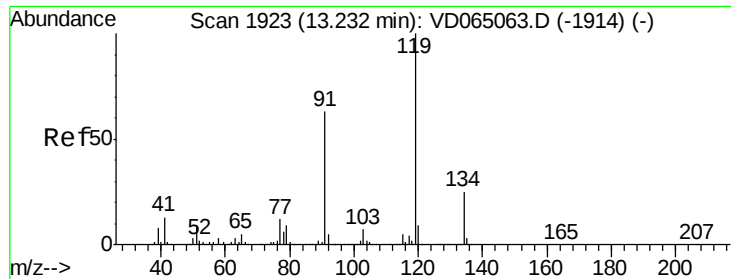
Delta R.T. 0.00 min

Lab File: VD065187.D

Acq: 14 Feb 2020 14:53

Tgt Ion:	91	Resp:	291996
Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.5	52.5





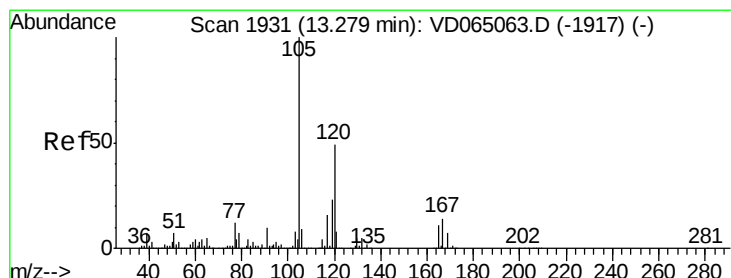
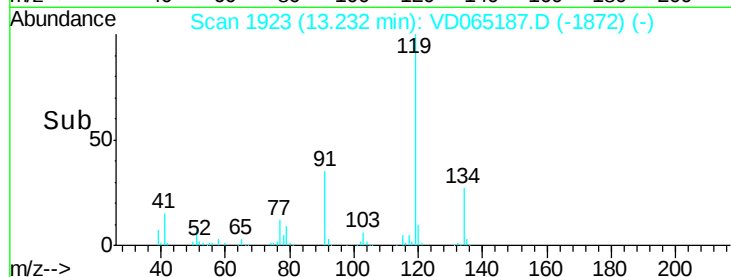
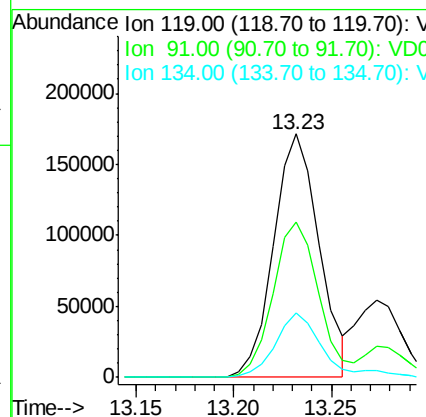
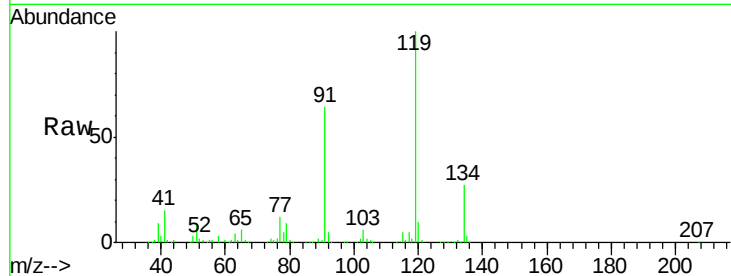
#83
tert-Butylbenzene
Concen: 20.687 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	277006		
91	64.2		32.3	96.9
134	27.7		13.8	41.3

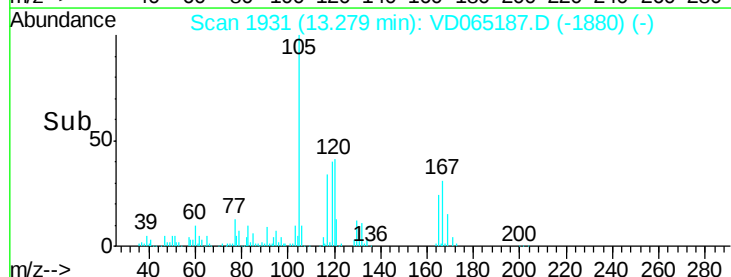
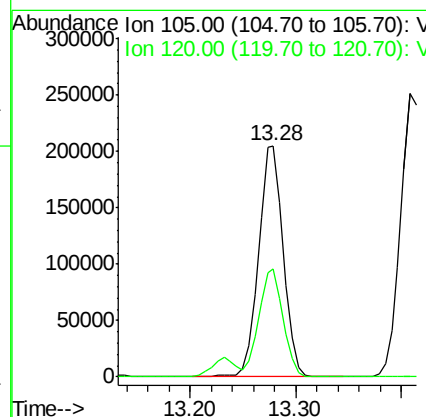
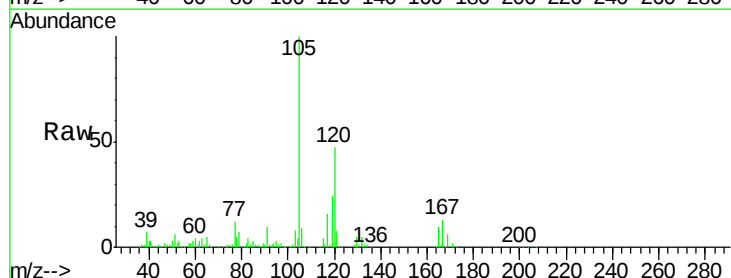
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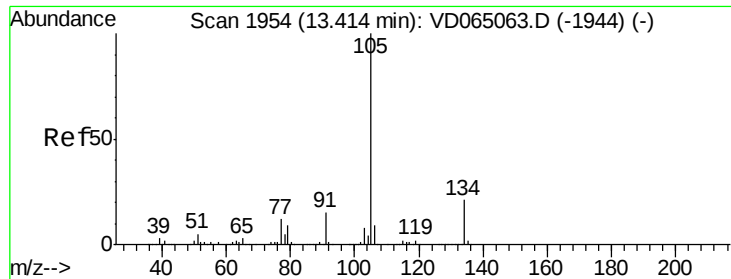
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#84
1,2,4-Trimethylbenzene
Concen: 21.763 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	335358		
120	45.8		23.5	70.5





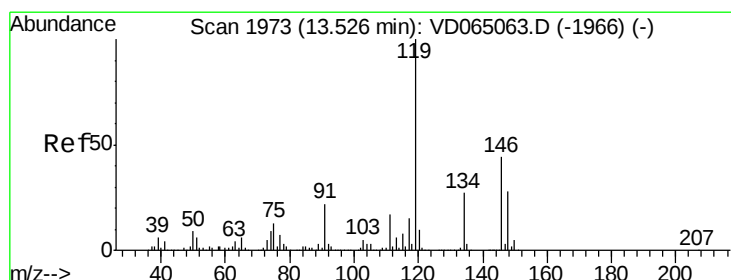
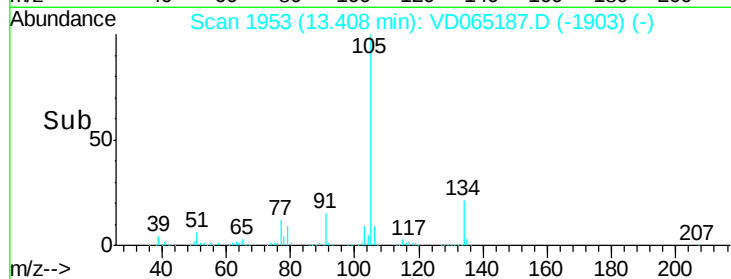
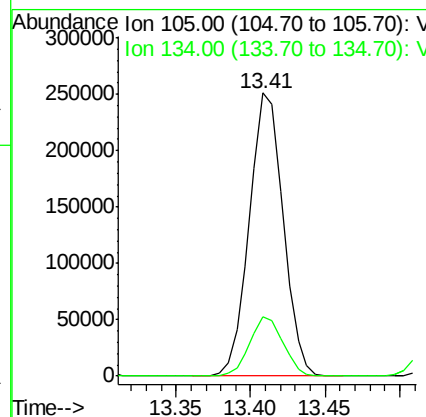
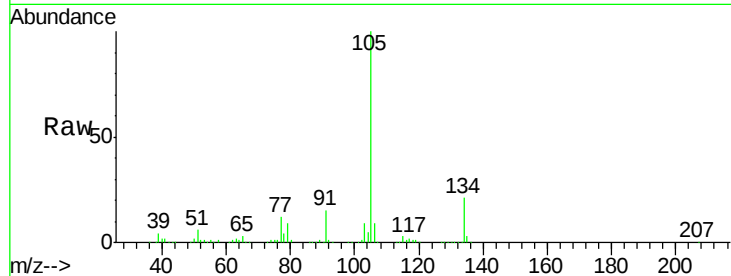
#85
 sec-Butylbenzene
 Concen: 21.578 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	394643		
134	134	20.7		10.4	31.1

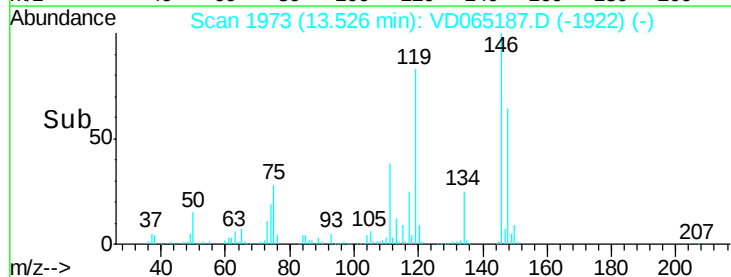
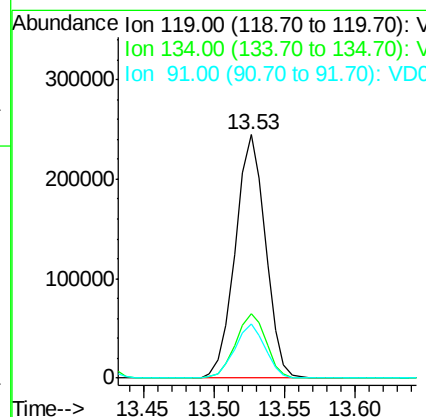
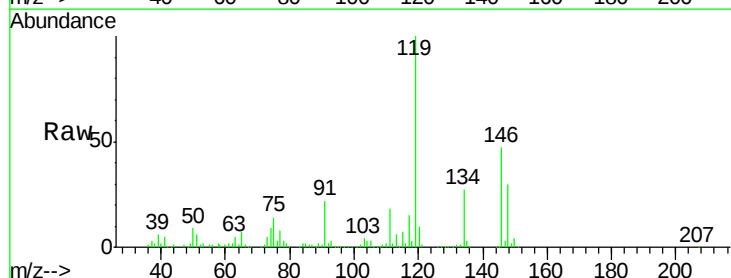
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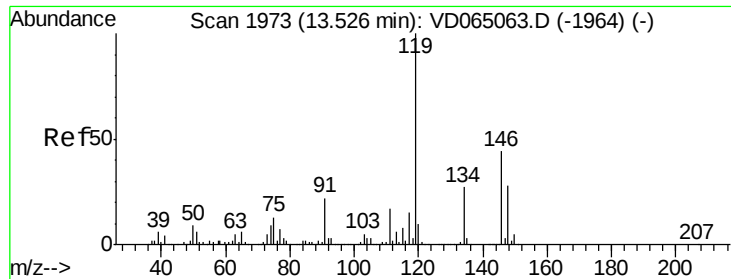
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 2/17/2020 10:35:13 AM



#86
 p-Isopropyltoluene
 Concen: 21.456 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
119	119	100	364596		
134	134	27.1		13.5	40.5
91	91	22.4		11.3	33.9





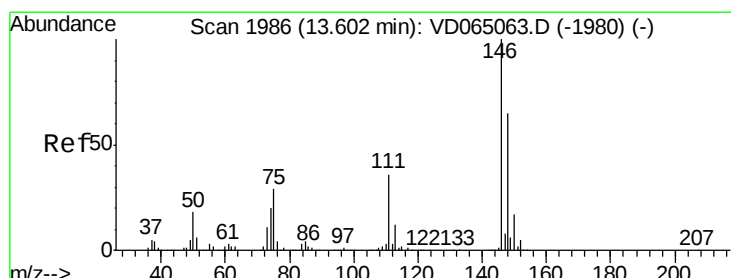
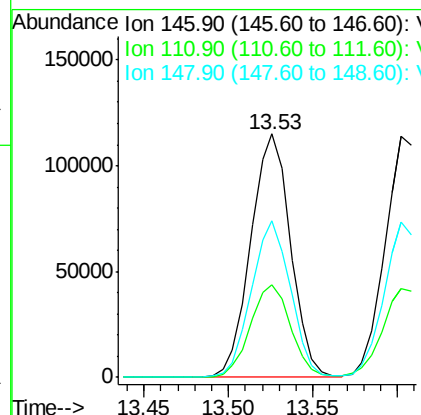
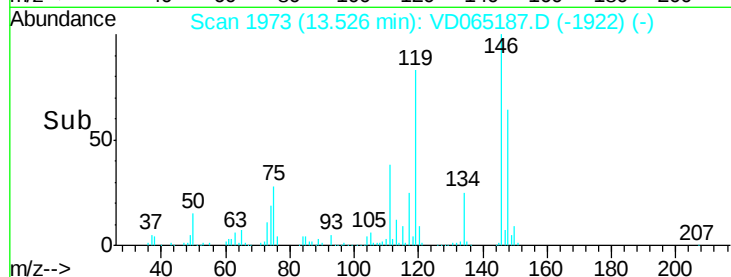
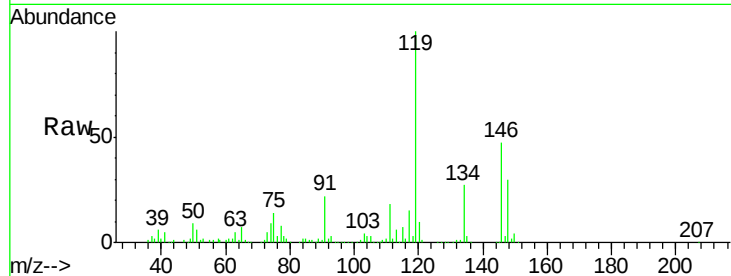
#87
 1,3-Dichlorobenzene
 Concen: 22.064 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	188829		
111	38.7	19.4	58.4	
148	63.0	32.3	96.8	

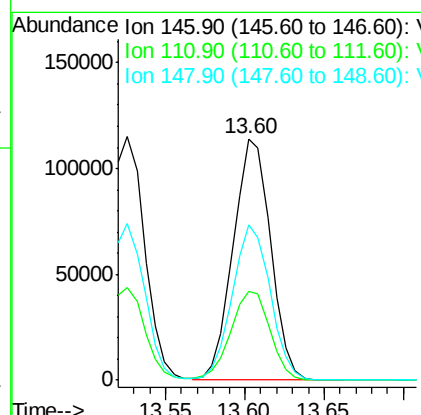
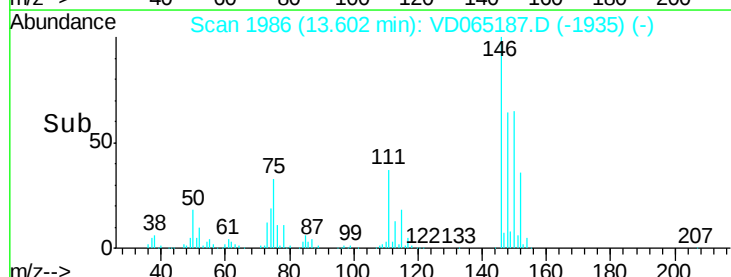
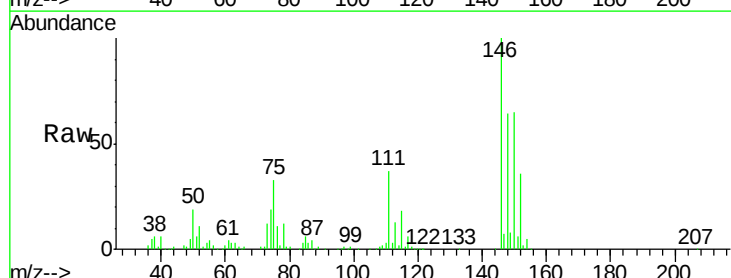
Manual Integrations
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#88
 1,4-Dichlorobenzene
 Concen: 22.012 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	187503		
111	38.5	18.5	55.5	
148	65.3	32.7	98.1	





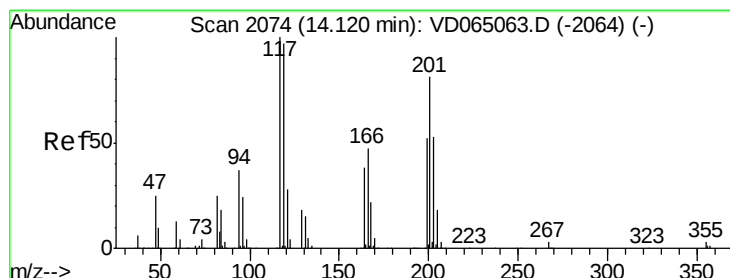
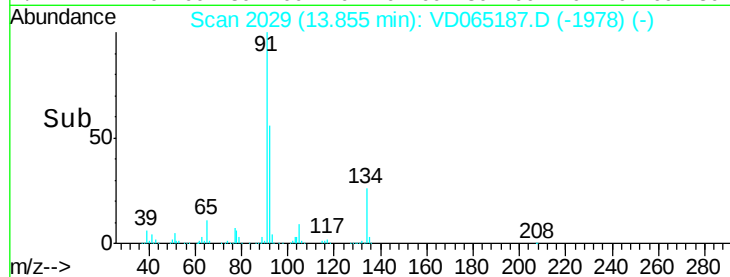
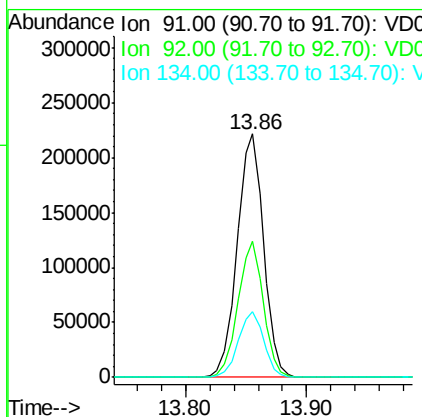
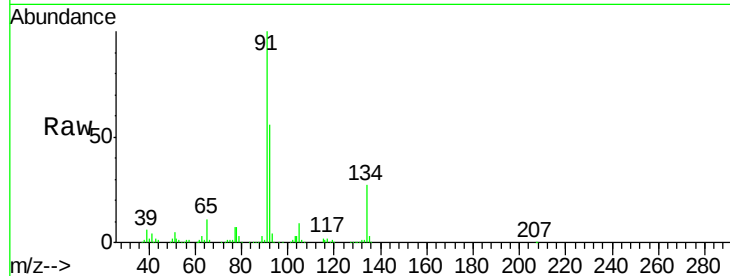
#89
n-Butylbenzene
Concen: 21.556 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.1
134	25.8	13.4	40.2

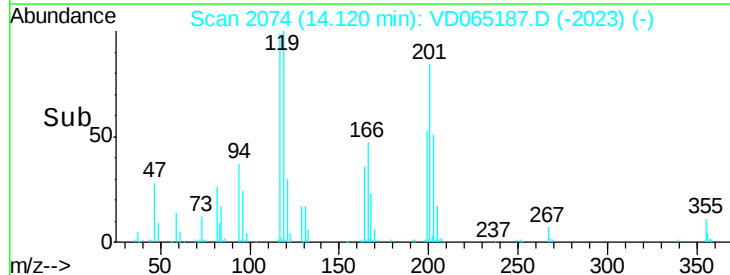
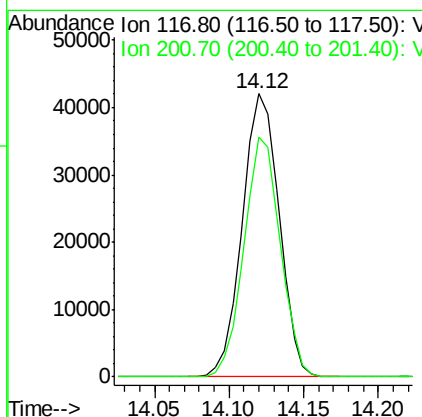
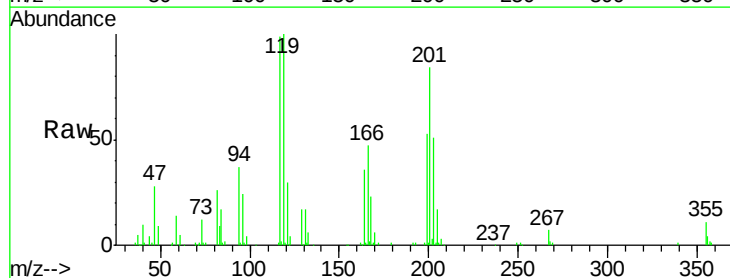
Manual Integrations
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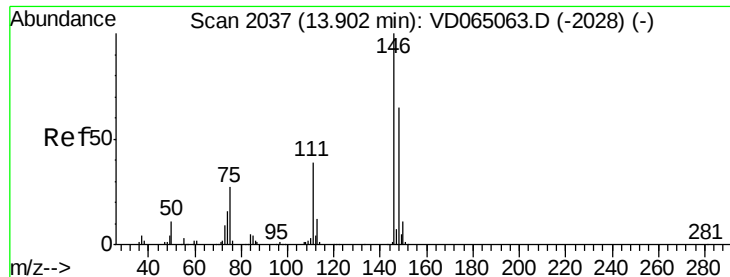
MMDadoda
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#90
Hexachloroethane
Concen: 22.344 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.1	42.5	127.6





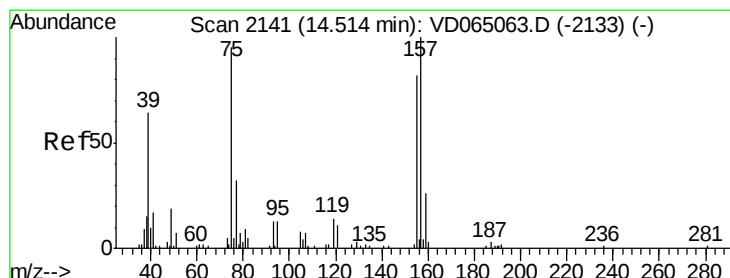
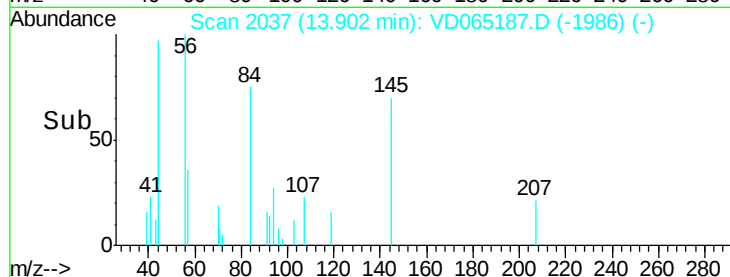
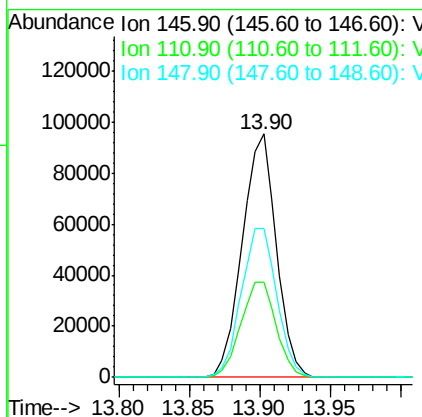
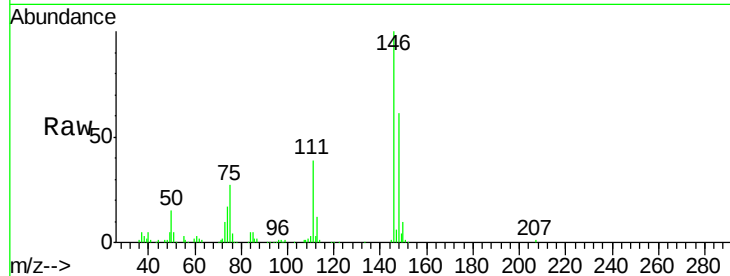
#91
 1,2-Dichlorobenzene
 Concen: 21.975 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.7	59.1
148	63.8	31.9	95.5

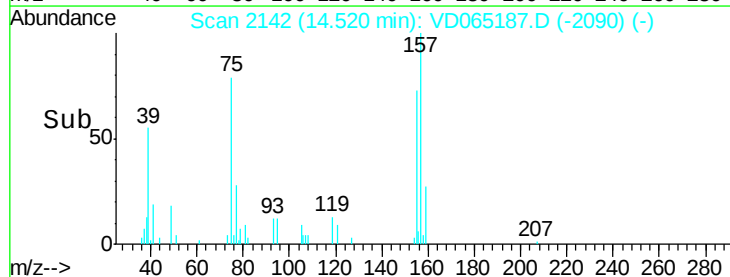
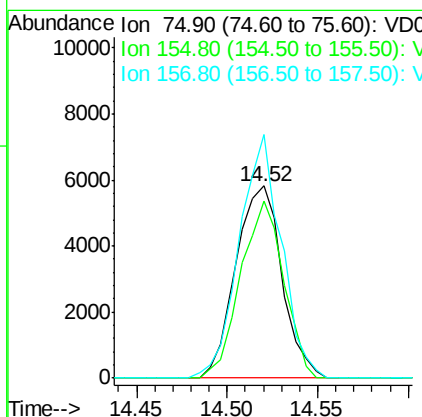
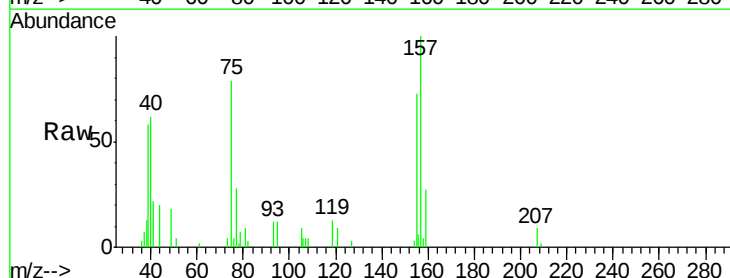
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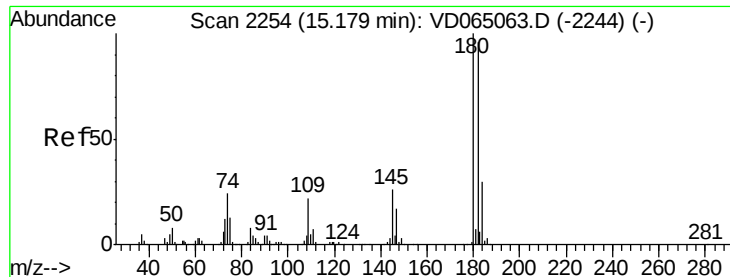
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.133 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.4	130.1
157	114.9	55.8	167.3





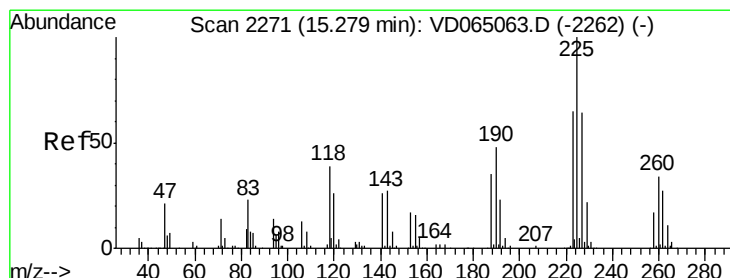
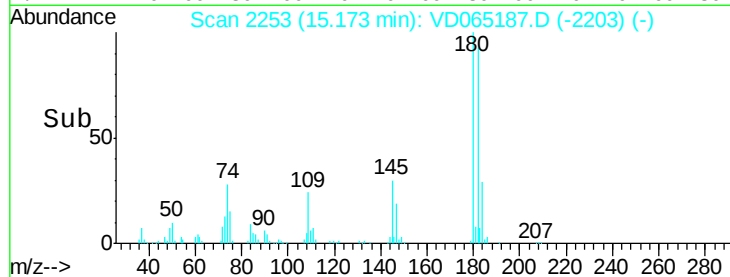
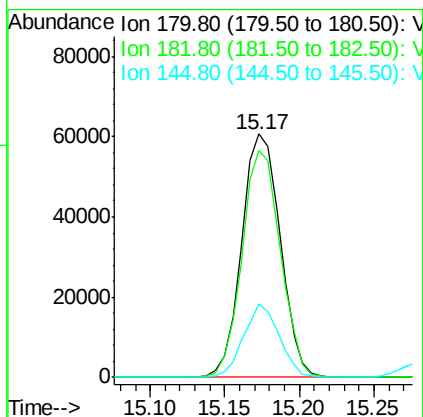
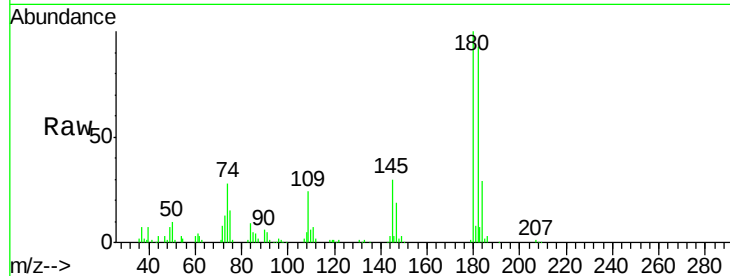
#93
 1,2,4-Trichlorobenzene
 Concen: 20.685 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0214SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	108377		
182	92.8	47.4	142.3	
145	28.0	14.1	42.4	

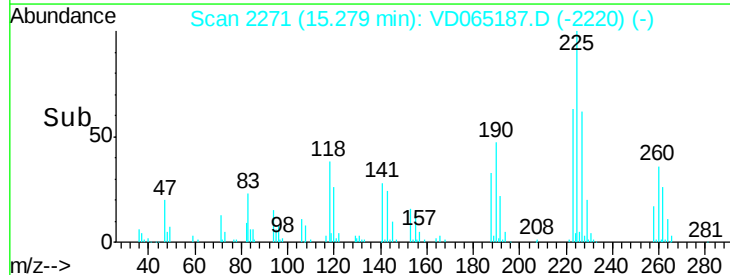
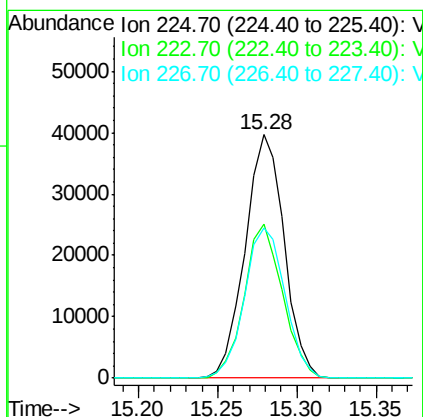
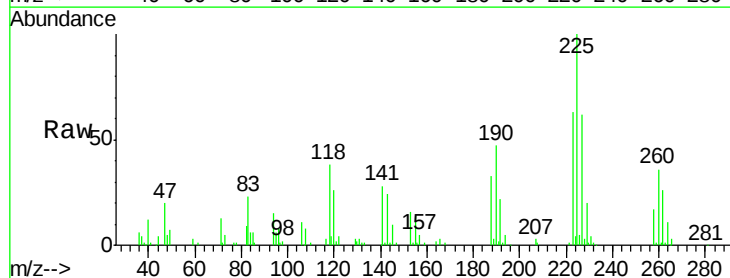
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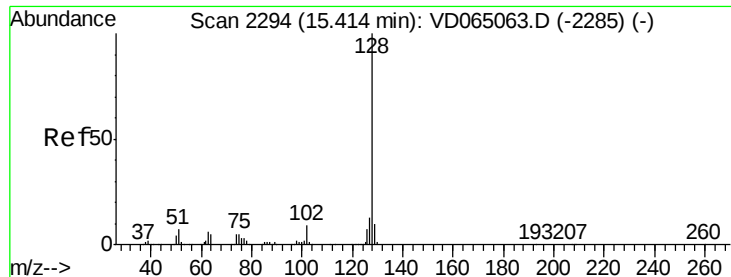
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 2/17/2020 10:35:13 AM



#94
 Hexachlorobutadiene
 Concen: 21.092 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065187.D
 Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	67951		
223	62.0	31.4	94.0	
227	63.8	31.8	95.3	





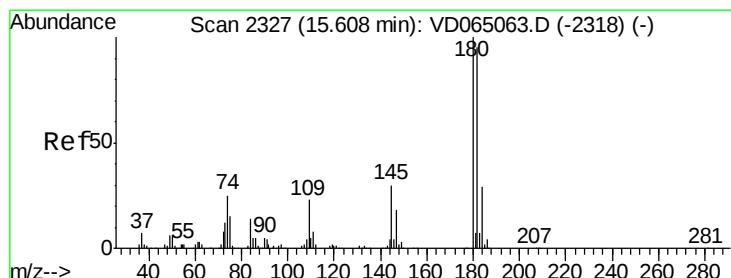
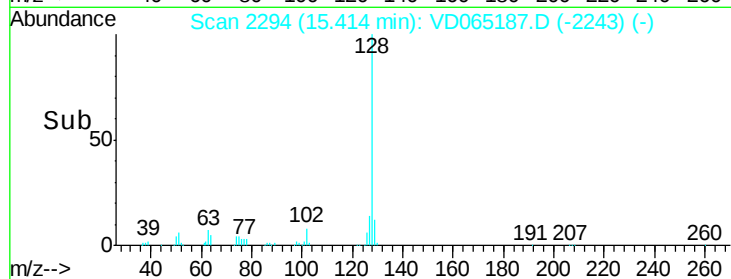
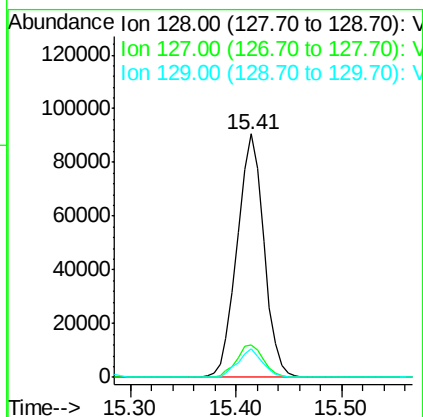
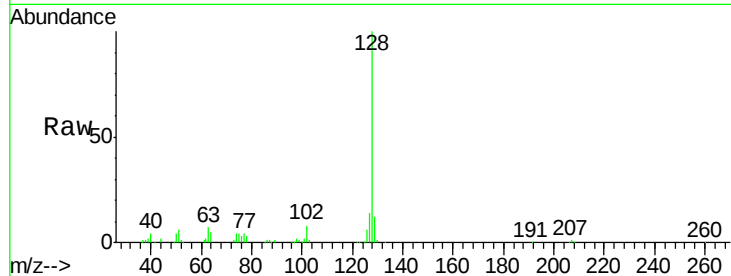
#95
Naphthalene
Concen: 18.228 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Instrument :
MSVOA_D
ClientSampleId :
VD0214SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	158738		
127	13.6	10.6	15.8	
129	10.8	8.7	13.1	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.231 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD065187.D
Acq: 14 Feb 2020 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	90668		
182	94.2	47.1	141.4	
145	30.5	14.9	44.9	

