

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101619\
 Data File : VD063982.D
 Acq On : 16 Oct 2019 12:46
 Operator : VA/SY
 Sample : VD1016SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 12:49:47 AM

Quant Time: Oct 16 14:07:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	188934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	295712	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	291407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	154294	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	88267	47.99	ug/l	0.00
Spiked Amount						
			Recovery	=	95.98%	
35) Dibromofluoromethane	7.92	113	87916	48.65	ug/l	0.00
Spiked Amount						
			Recovery	=	97.30%	
50) Toluene-d8	10.34	98	382820	52.19	ug/l	0.00
Spiked Amount						
			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	12.63	95	125992	49.43	ug/l	0.00
Spiked Amount						
			Recovery	=	98.86%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.99	85	24450	18.248	ug/l 97
3) Chloromethane	2.21	50	78407	18.943	ug/l 91
4) Vinyl Chloride	2.35	62	91628	21.159	ug/l 99
5) Bromomethane	2.76	94	56931	20.449	ug/l 94
6) Chloroethane	2.92	64	60253	21.039	ug/l # 86
7) Trichlorofluoromethane	3.27	101	129307	22.584	ug/l 95
8) Diethyl Ether	3.70	74	16669	18.138	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	4.09	101	31950	20.159	ug/l 94
10) Methyl Iodide	4.29	142	37338	17.097	ug/l 97
11) Tert butyl alcohol	5.26	59	3842m	22.776	ug/l
12) 1,1-Dichloroethene	4.06	96	29896	18.881	ug/l 90
13) Acrolein	3.91	56	8843	53.827	ug/l 84
14) Allyl chloride	4.71	41	51696	19.637	ug/l 99
15) Acrylonitrile	5.42	53	37994	93.773	ug/l 97
16) Acetone	4.17	43	40303	84.158	ug/l 95
17) Carbon Disulfide	4.40	76	99939	17.363	ug/l 98
18) Methyl Acetate	4.72	43	19035	20.322	ug/l # 81
19) Methyl tert-butyl Ether	5.49	73	68874	16.797	ug/l 94
20) Methylene Chloride	4.96	84	43728	18.694	ug/l 86
21) trans-1,2-Dichloroethene	5.47	96	39294	19.934	ug/l 93
22) Diisopropyl ether	6.36	45	103925	19.330	ug/l 97
23) Vinyl Acetate	6.31	43	298531	93.337	ug/l 100
24) 1,1-Dichloroethane	6.27	63	67290	20.319	ug/l 98
25) 2-Butanone	7.23	43	48201	84.929	ug/l # 86
26) 2,2-Dichloropropane	7.21	77	58994	19.693	ug/l 99
27) cis-1,2-Dichloroethene	7.21	96	42537	19.065	ug/l 95
28) Bromochloromethane	7.54	49	19866	17.054	ug/l 98
29) Tetrahydrofuran	7.57	42	29764	89.849	ug/l 95
30) Chloroform	7.71	83	69223	19.245	ug/l 97
31) Cyclohexane	7.98	56	66221	21.946	ug/l 96
32) 1,1,1-Trichloroethane	7.90	97	62485	20.251	ug/l 98
36) 1,1-Dichloropropene	8.11	75	56083	20.743	ug/l 96
37) Ethyl Acetate	7.30	43	23038	18.757	ug/l # 78
38) Carbon Tetrachloride	8.10	117	57049	20.880	ug/l # 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	71253	21.433	ug/l	92
40) Benzene	8.36	78	159966	20.646	ug/l	96
41) Methacrylonitrile	7.51	41	7441	11.870	ug/l #	69
42) 1,2-Dichloroethane	8.43	62	43652	19.476	ug/l	98
43) Isopropyl Acetate	8.46	43	40292	17.770	ug/l	99
44) Trichloroethene	9.11	130	47044	21.056	ug/l	98
45) 1,2-Dichloropropane	9.39	63	37248	19.640	ug/l	95
46) Dibromomethane	9.48	93	21298	19.719	ug/l	98
47) Bromodichloromethane	9.66	83	54378	19.555	ug/l	93
48) Methyl methacrylate	9.46	41	20716	19.068	ug/l	90
49) 1,4-Dioxane	9.47	88	6210	421.219	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	109756	93.333	ug/l	96
52) Toluene	10.40	92	108600	20.417	ug/l	96
53) t-1,3-Dichloropropene	10.62	75	51100	18.832	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	59445	19.031	ug/l	91
55) 1,1,2-Trichloroethane	10.80	97	30463	19.976	ug/l	93
56) Ethyl methacrylate	10.66	69	35256	18.256	ug/l	96
57) 1,3-Dichloropropane	10.95	76	49929	19.135	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	74888	90.215	ug/l	99
59) 2-Hexanone	10.99	43	75255	88.467	ug/l	100
60) Dibromochloromethane	11.14	129	38937	19.612	ug/l	95
61) 1,2-Dibromoethane	11.25	107	28145	19.037	ug/l	93
64) Tetrachloroethene	10.88	164	40283	20.249	ug/l	91
65) Chlorobenzene	11.67	112	119107	20.352	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	43317	20.088	ug/l	97
67) Ethyl Benzene	11.75	91	214409	20.318	ug/l	97
68) m/p-Xylenes	11.86	106	171529	42.112	ug/l	100
69) o-Xylene	12.18	106	78116	20.029	ug/l	100
70) Styrene	12.20	104	129905	19.675	ug/l	98
71) Bromoform	12.36	173	20915	18.072	ug/l #	99
73) Isopropylbenzene	12.48	105	214561	20.686	ug/l	96
74) N-amyl acetate	12.29	43	39775	17.811	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	34598	19.169	ug/l	96
76) 1,2,3-Trichloropropane	12.79	75	24994m	24.186	ug/l	
77) Bromobenzene	12.76	156	50466	19.529	ug/l	98
78) n-propylbenzene	12.82	91	260433	21.391	ug/l	98
79) 2-Chlorotoluene	12.91	91	135782	20.226	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	186074	21.503	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.53	75	10117	17.324	ug/l	94
82) 4-Chlorotoluene	13.01	91	145862	20.482	ug/l	99
83) tert-Butylbenzene	13.23	119	155294	20.164	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	183038	20.517	ug/l	99
85) sec-Butylbenzene	13.40	105	221926	21.338	ug/l	100
86) p-Isopropyltoluene	13.52	119	212692	21.611	ug/l	98
87) 1,3-Dichlorobenzene	13.52	146	103051	20.182	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	104513	20.747	ug/l	99
89) n-Butylbenzene	13.85	91	200227	21.857	ug/l	98
90) Hexachloroethane	14.11	117	36245	20.477	ug/l	99
91) 1,2-Dichlorobenzene	13.89	146	90648	20.600	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5303	17.303	ug/l	87

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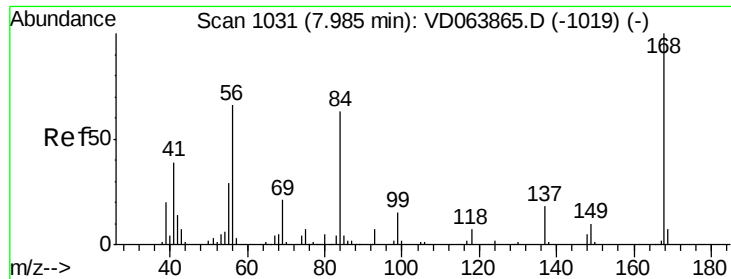
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	65151	19.188	ug/l	98
94) Hexachlorobutadiene	15.27	225	38832	20.725	ug/l	96
95) Naphthalene	15.41	128	106705	18.698	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	53846	18.381	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion:168 Resp: 188934

Ion Ratio Lower Upper

168 100

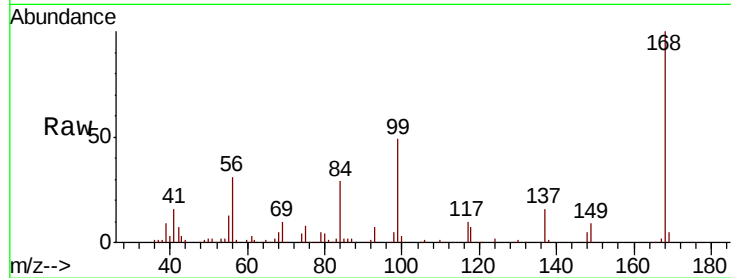
99 48.4 43.0 64.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

80000

60000

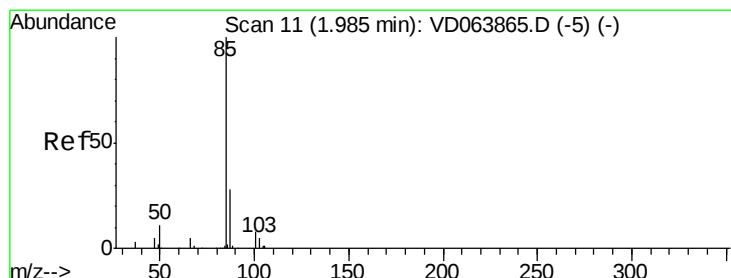
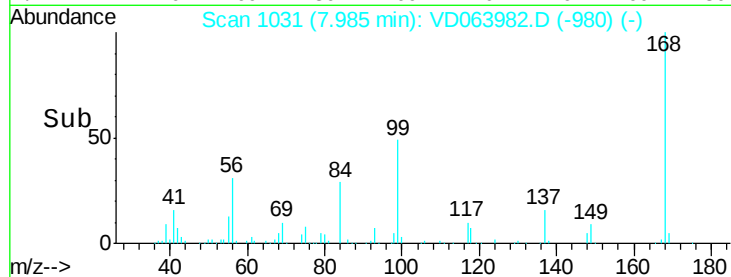
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.248 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD063982.D

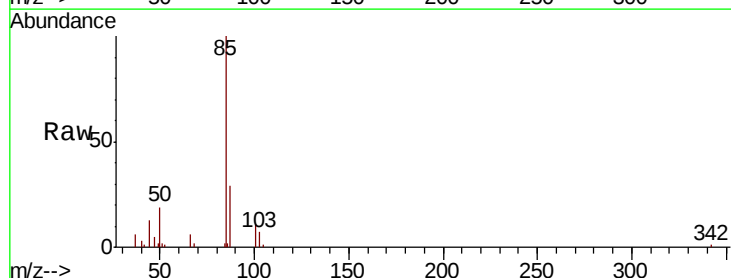
Acq: 16 Oct 2019 12:46

Tgt Ion: 85 Resp: 24450

Ion Ratio Lower Upper

85 100

87 29.5 14.0 42.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

20000

15000

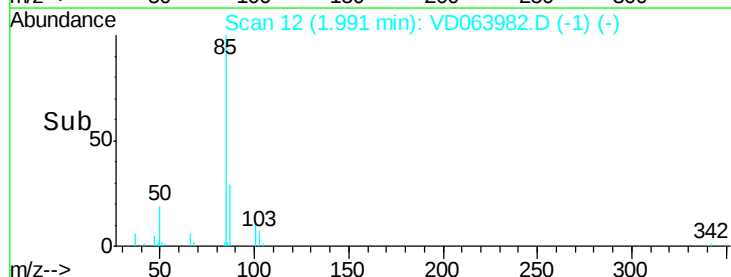
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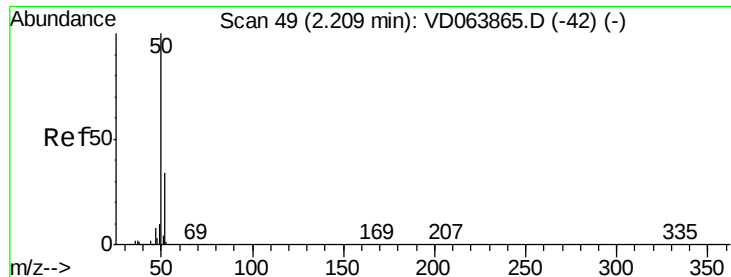
5000

0

1.90 1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 18.943 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 50 Resp: 78407

Ion Ratio Lower Upper

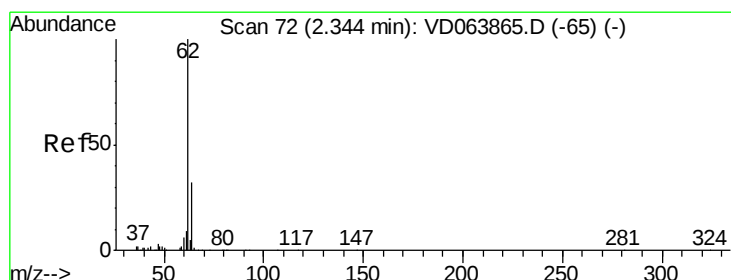
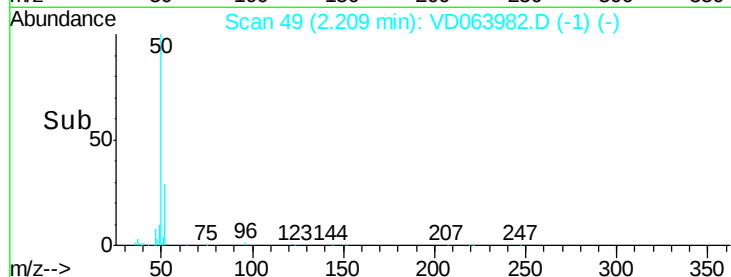
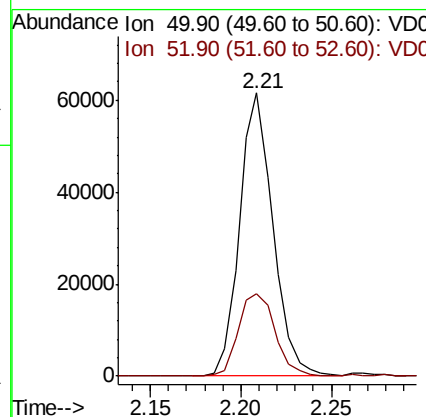
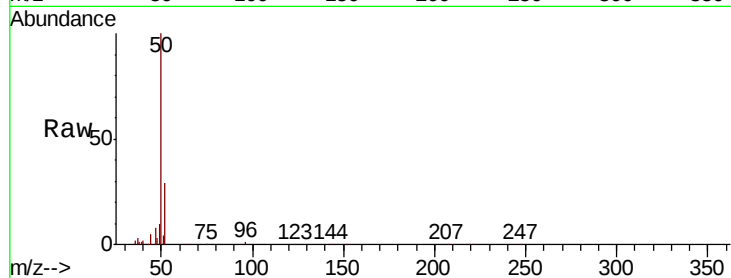
50 100

52 29.1 27.5 41.3

Manual Integrations
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#4

Vinyl Chloride

Concen: 21.159 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063982.D

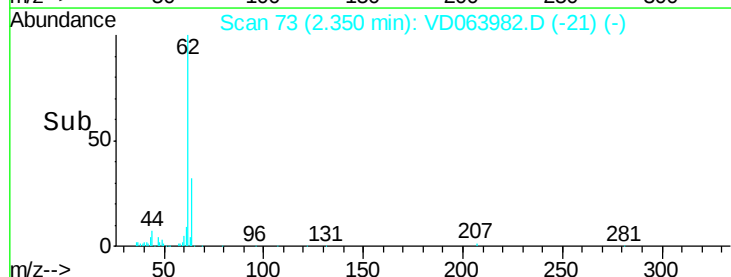
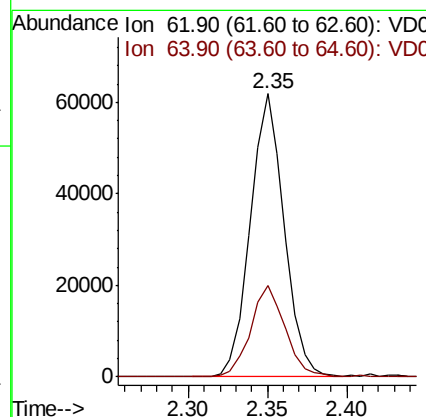
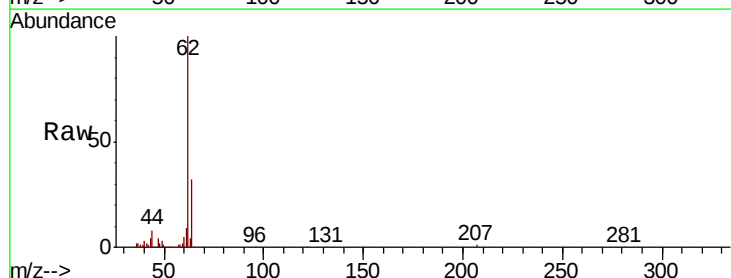
Acq: 16 Oct 2019 12:46

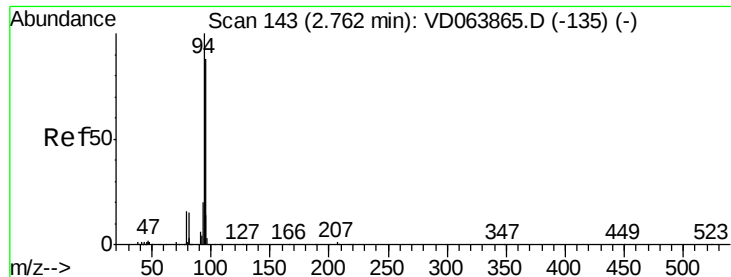
Tgt Ion: 62 Resp: 91628

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.0





#5

Bromomethane

Concen: 20.449 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 94 Resp: 56931

Ion Ratio Lower Upper

94 100

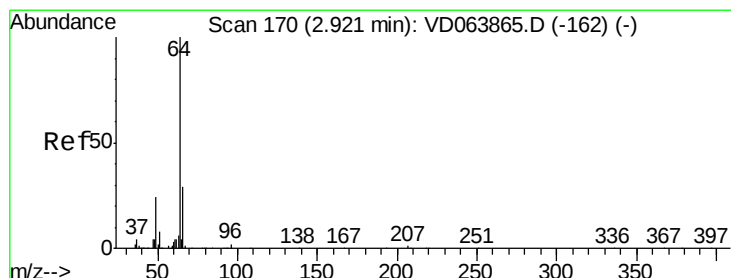
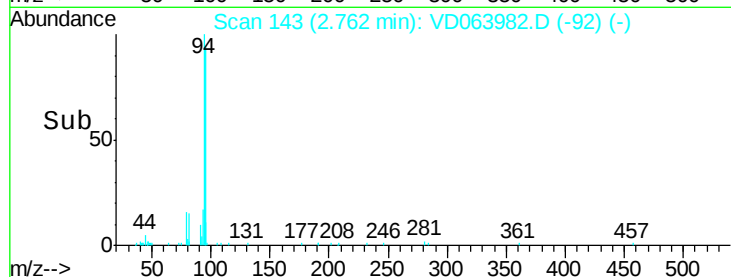
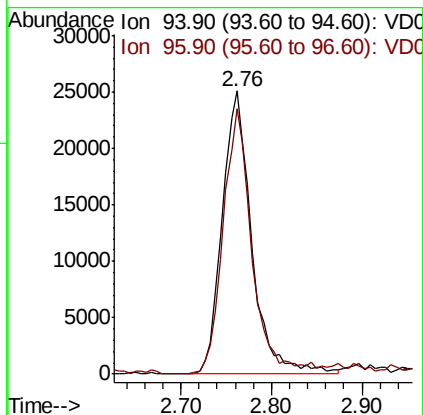
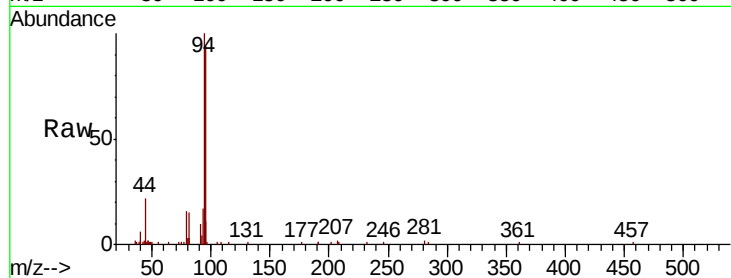
96 93.8 70.8 106.2

Manual Integrations

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#6

Chloroethane

Concen: 21.039 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD063982.D

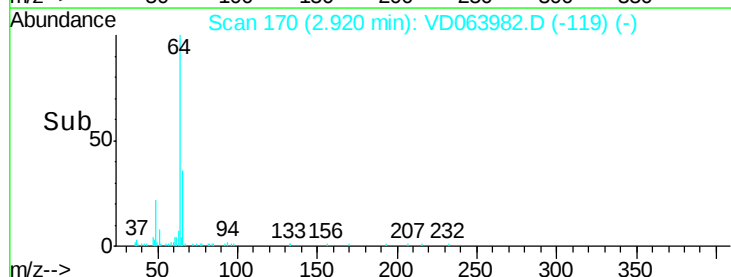
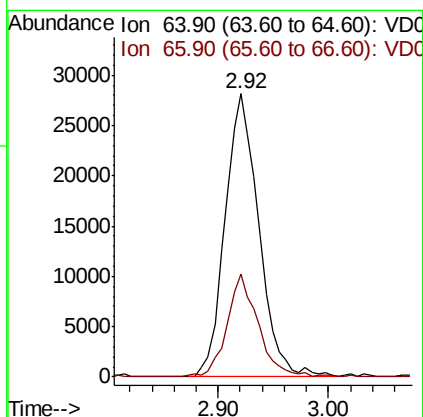
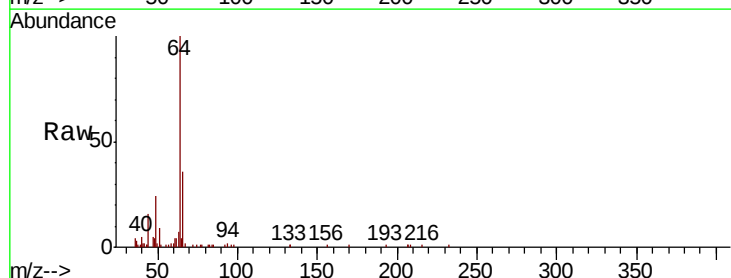
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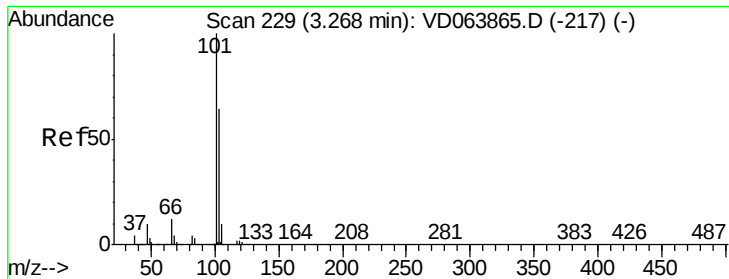
Tgt Ion: 64 Resp: 60253

Ion Ratio Lower Upper

64 100

66 36.2 23.0 34.4#





#7

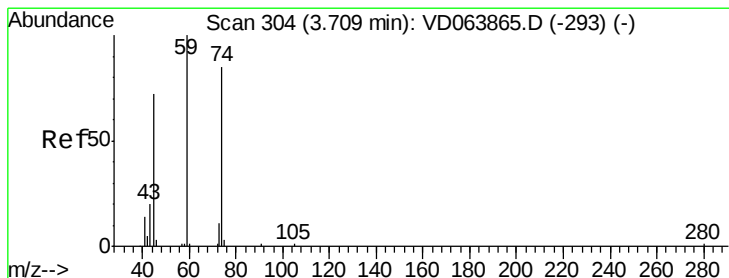
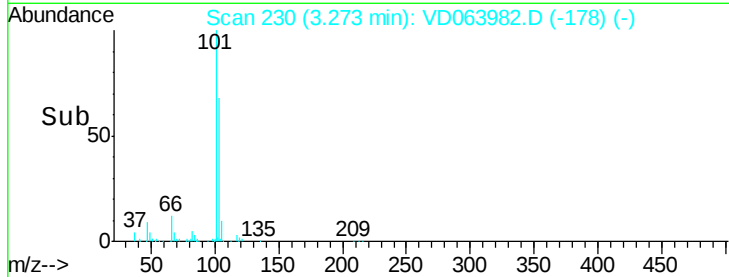
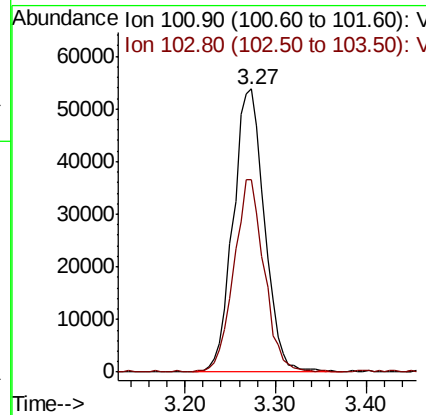
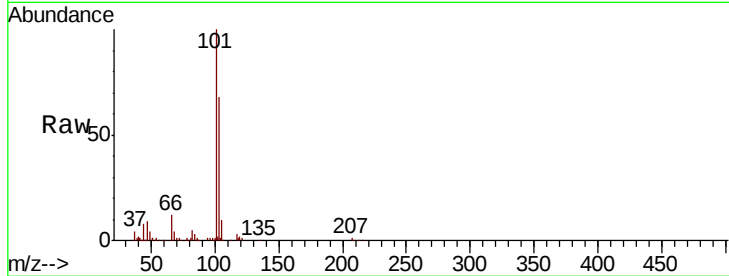
Trichlorofluoromethane
 Concen: 22.584 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
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 ClientSampleId :
 VD1016SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.8	51.1	76.7

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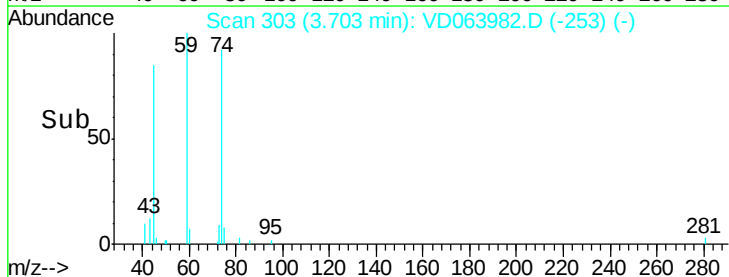
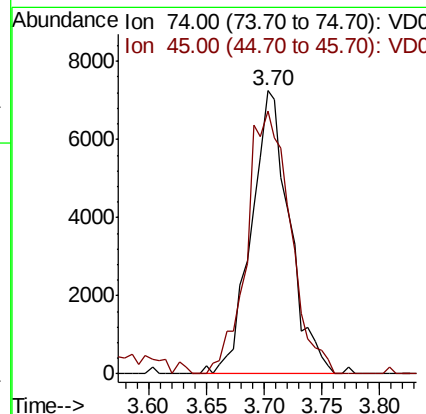
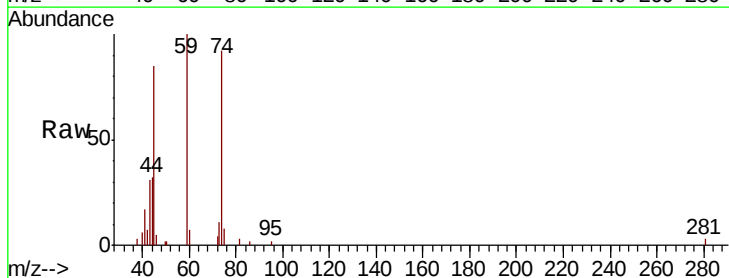
MMDadoda
 10/18/2019 12:49:47 AM

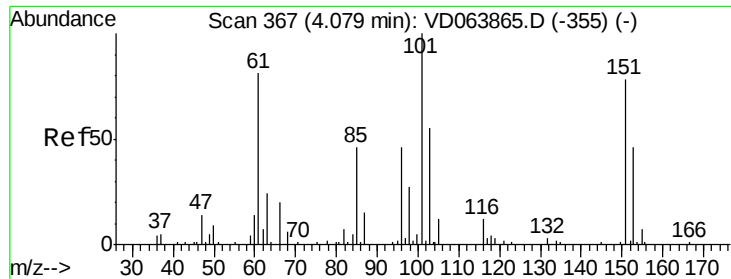


#8

Diethyl Ether
 Concen: 18.138 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.3	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.159 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

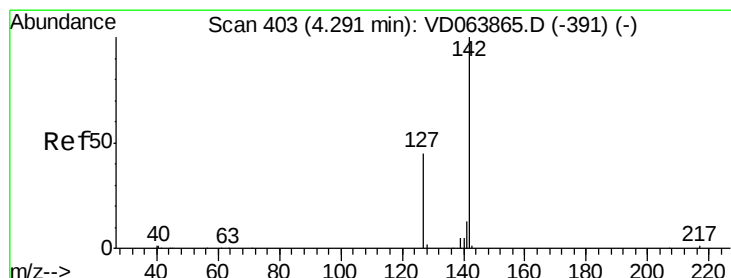
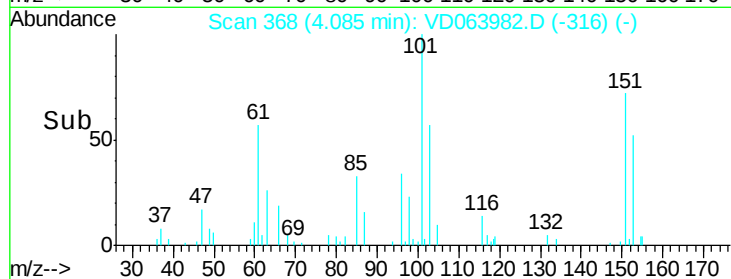
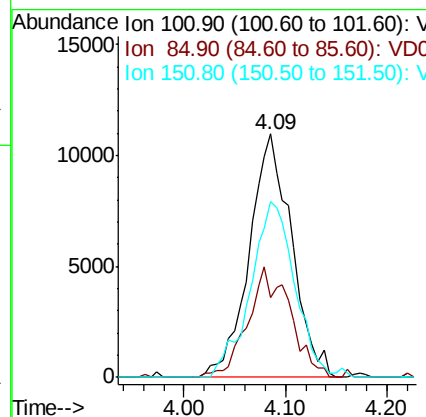
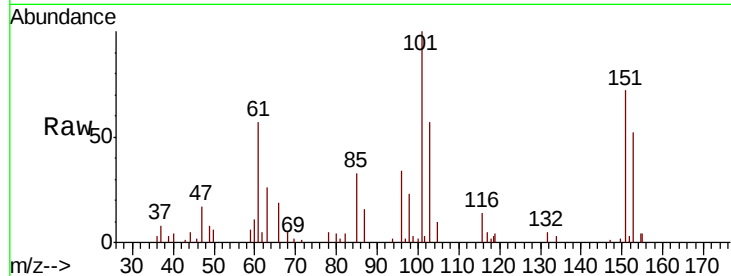
ClientSampleId :

VD1016SBS01

Tot Ion:	101	Resp:	31950
Ion Ratio	Lower	Upper	
101	100		
85	45.5	37.5	56.3
151	75.1	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 17.097 ug/l

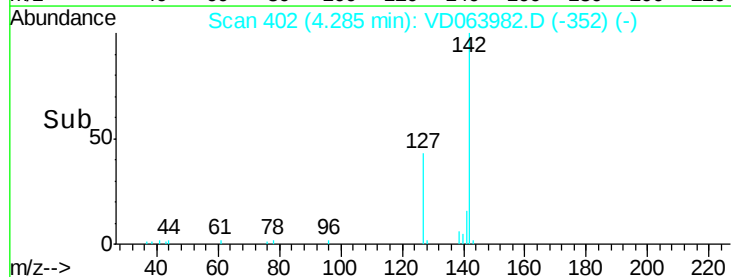
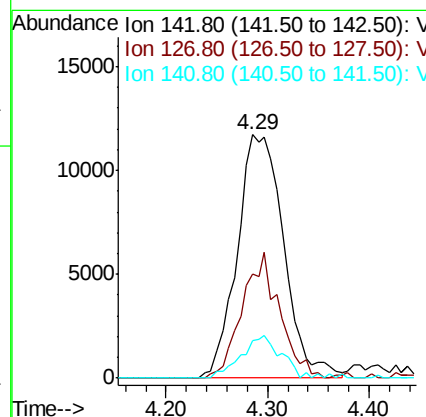
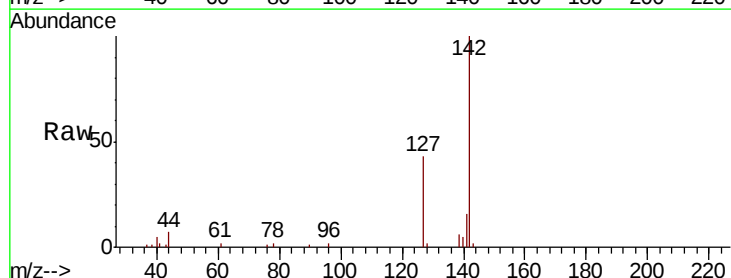
RT: 4.29 min Scan# 402

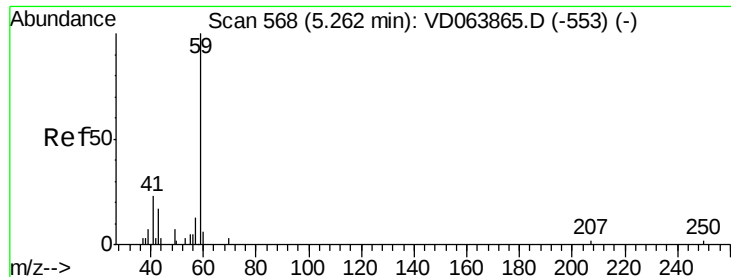
Delta R.T. -0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion:	142	Resp:	37338
Ion Ratio	Lower	Upper	
142	100		
127	41.6	35.3	52.9
141	14.9	12.2	18.2





#11

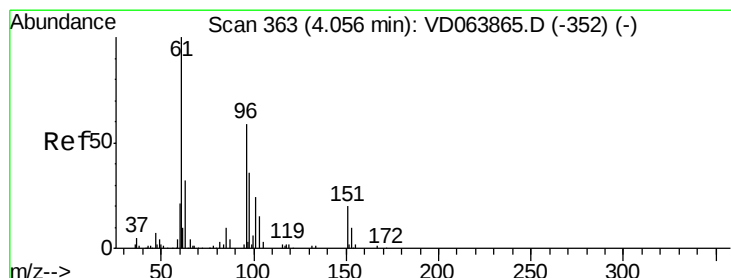
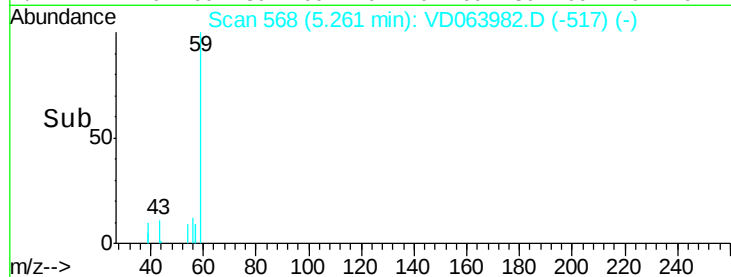
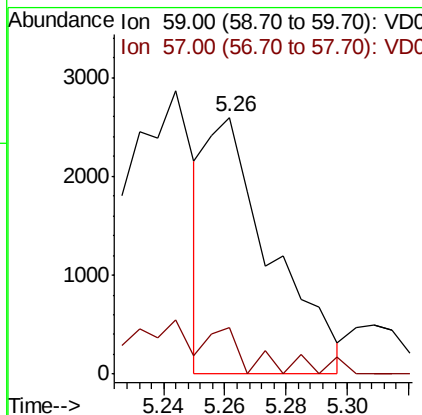
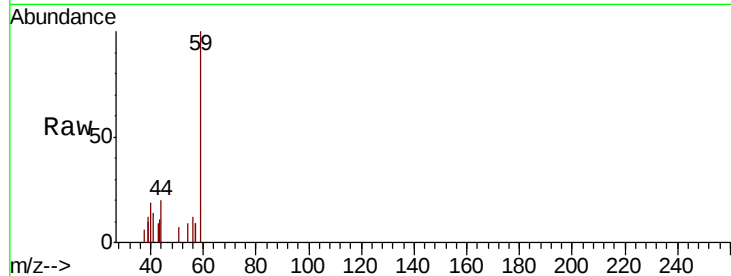
Tert butyl alcohol
 Concen: 22.776 ug/l m
 RT: 5.26 min Scan# 568
 Delta R.T. 0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion: 59 Resp: 3842
 Ion Ratio Lower Upper
 59 100
 57 36.7 8.8 13.2#

Manual Integrations
 APPROVED

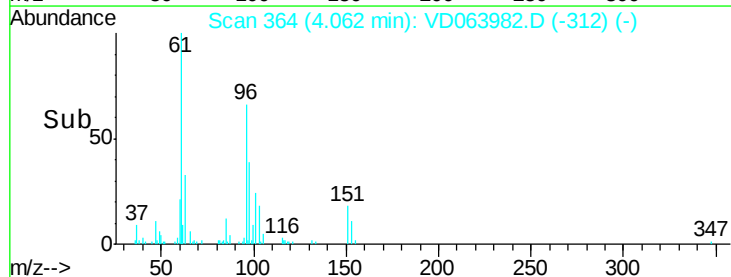
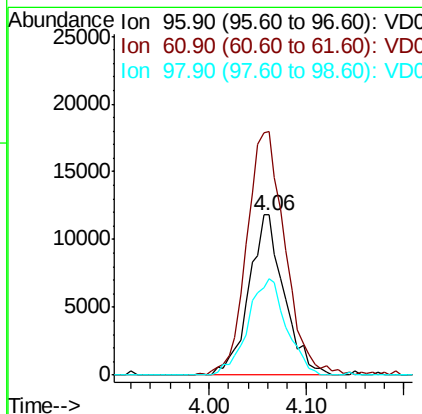
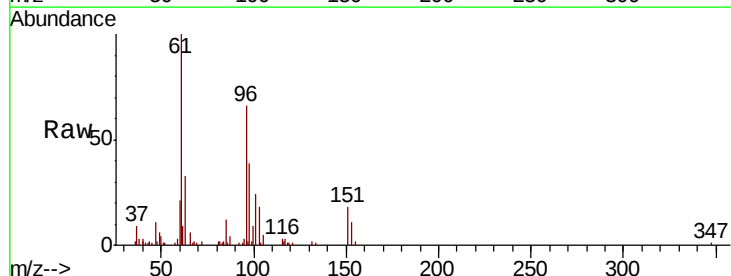
MMDadoda
 10/18/2019 12:49:47 AM

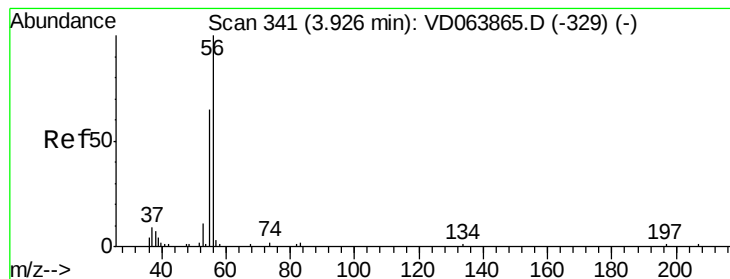


#12

1,1-Dichloroethene
 Concen: 18.881 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion: 96 Resp: 29896
 Ion Ratio Lower Upper
 96 100
 61 152.0 135.6 203.4
 98 60.0 49.2 73.8





#13

Acrolein

Concen: 53.827 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 56 Resp: 8843

Ion Ratio Lower Upper

56 100

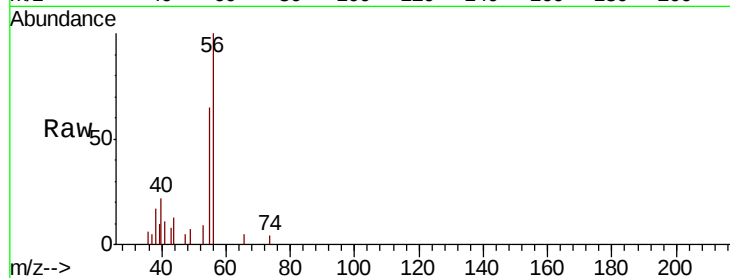
55 78.9 53.0 79.6

Manual Integrations

APPROVED

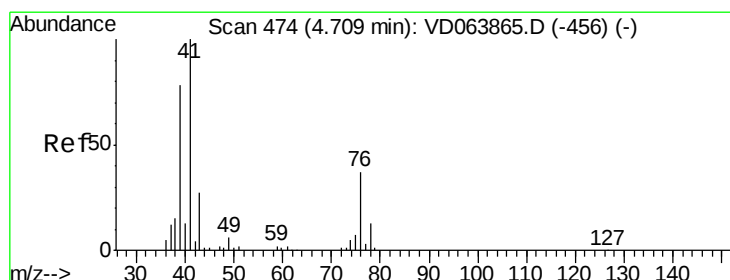
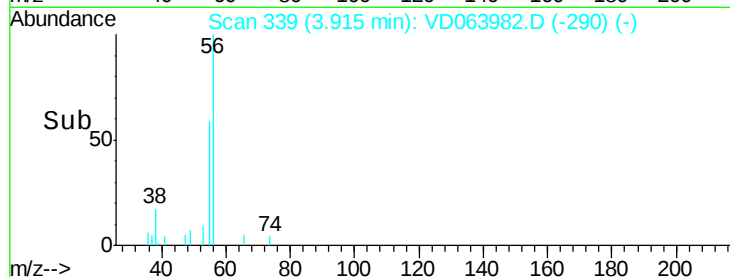
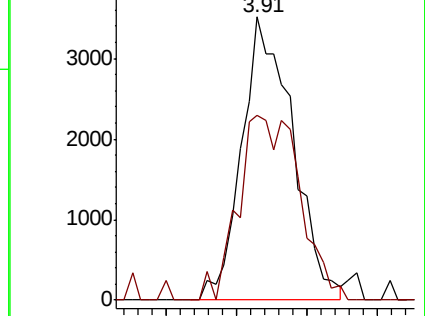
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.637 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

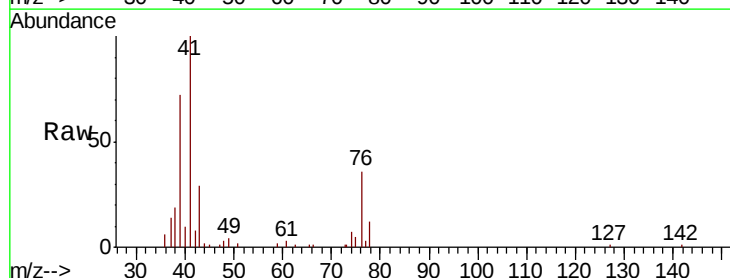
Tgt Ion: 41 Resp: 51696

Ion Ratio Lower Upper

41 100

39 78.5 61.8 92.6

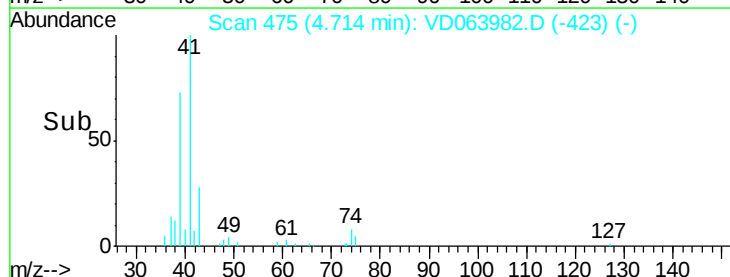
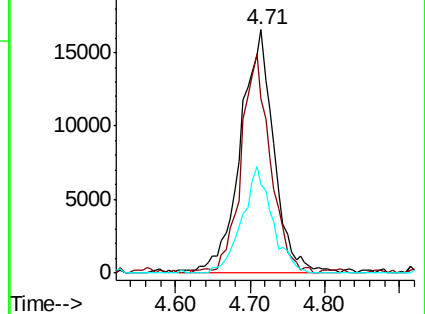
76 39.1 31.3 46.9

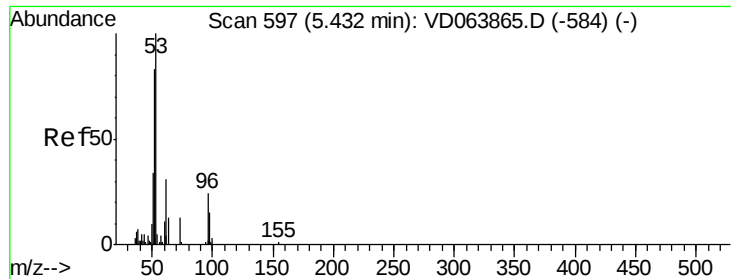


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 93.773 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

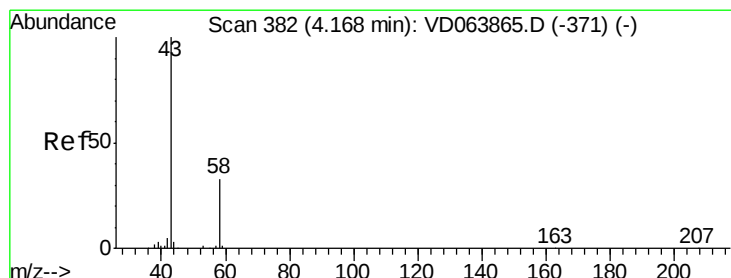
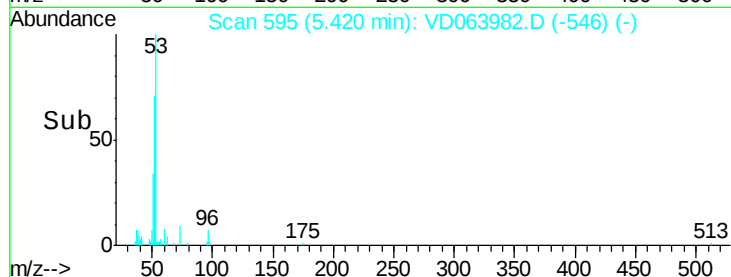
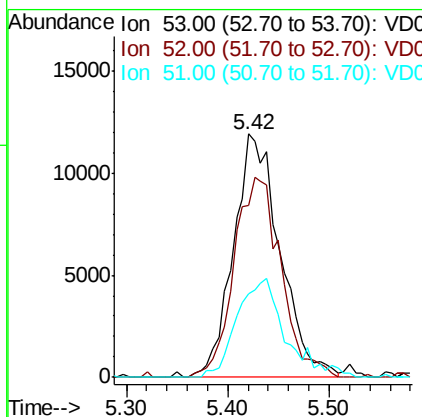
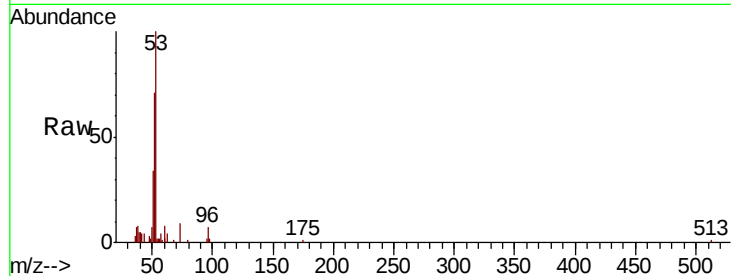
ClientSampleId :

VD1016SBS01

Tot Ion:	53	Resp:	37994
Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.3	100.9
51	42.1	30.5	45.7

Manual Integrations
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#16

Acetone

Concen: 84.158 ug/l

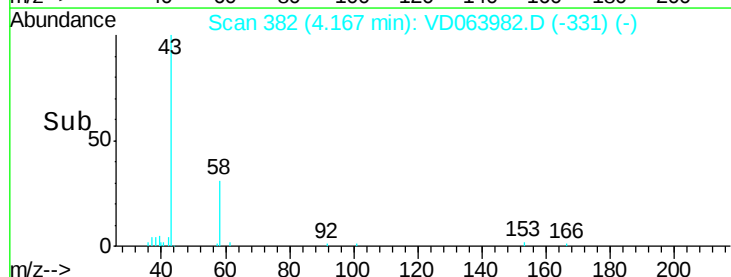
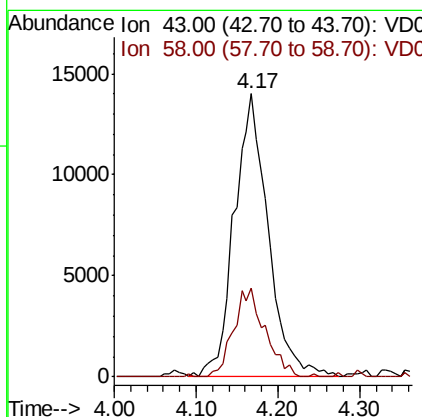
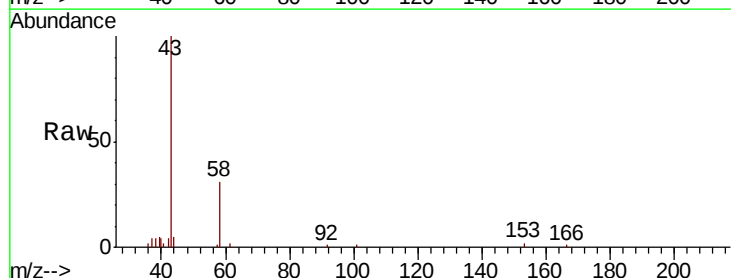
RT: 4.17 min Scan# 382

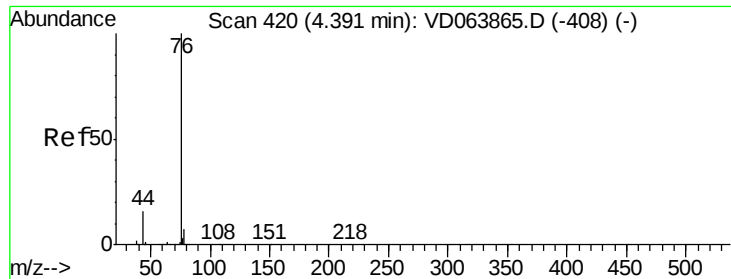
Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion:	43	Resp:	40303
Ion	Ratio	Lower	Upper
43	100		
58	30.3	26.2	39.4





#17

Carbon Disulfide

Concen: 17.363 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 76 Resp: 99939

Ion Ratio Lower Upper

76 100

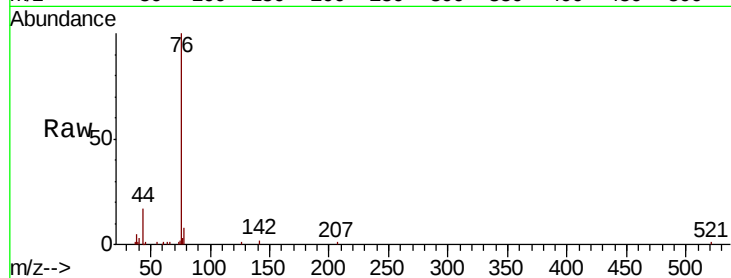
78 8.0 5.8 8.8

Manual Integrations

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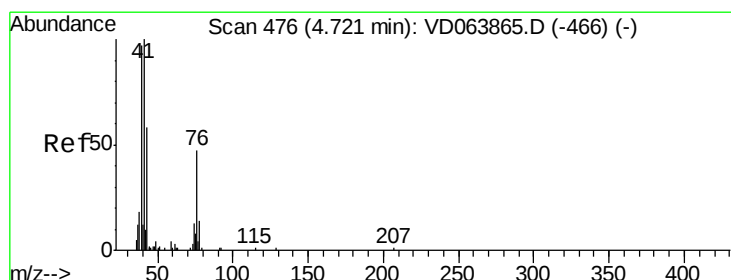
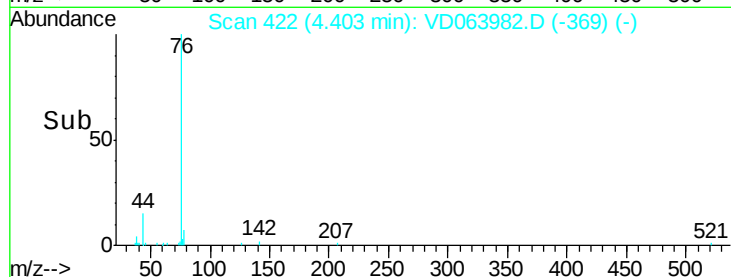
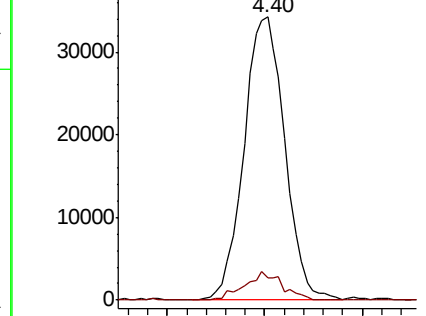
MMDadoda

10/18/2019 12:49:47 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 20.322 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD063982.D

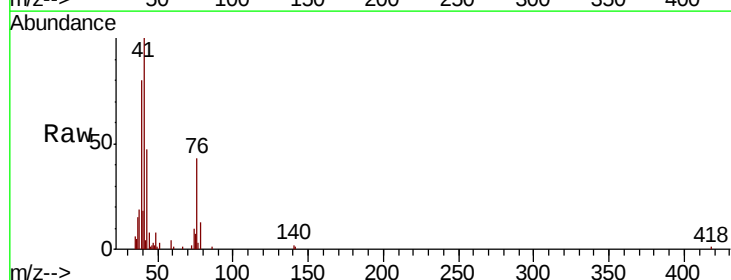
Acq: 16 Oct 2019 12:46

Tgt Ion: 43 Resp: 19035

Ion Ratio Lower Upper

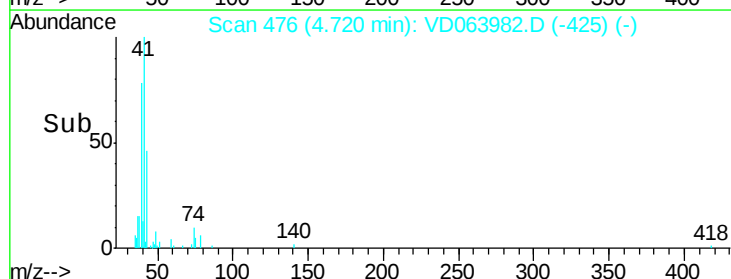
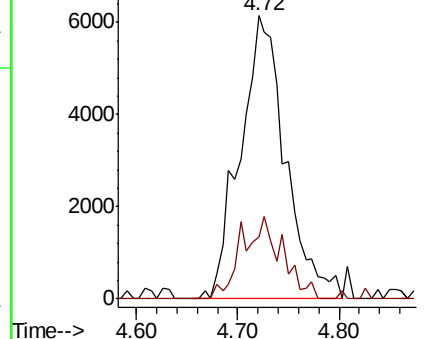
43 100

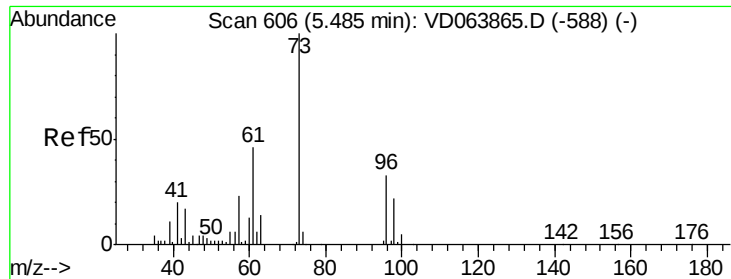
74 16.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





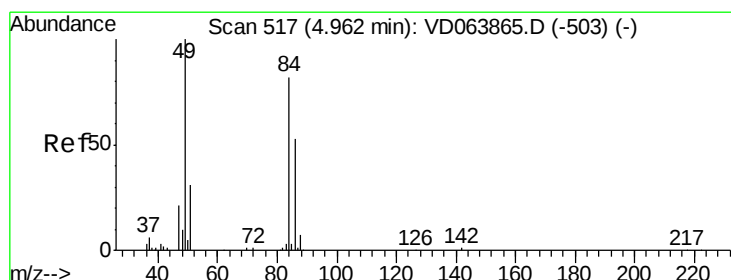
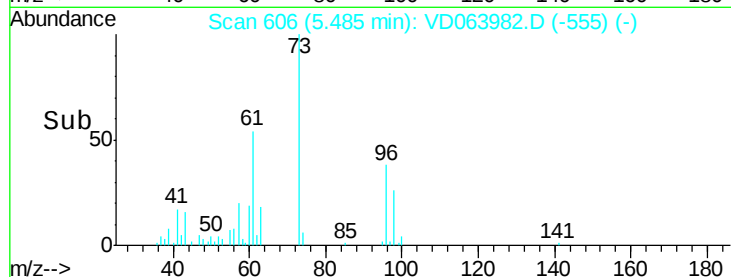
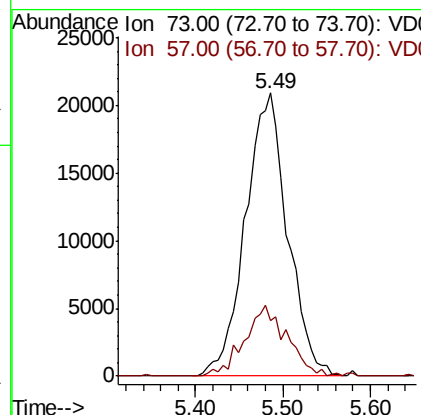
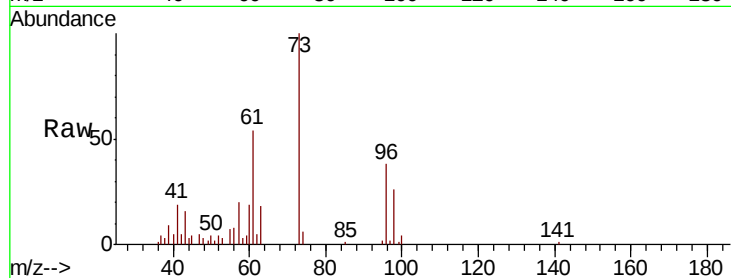
#19
Methyl tert-butyl Ether
Concen: 16.797 ug/l
RT: 5.49 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion: 73 Resp: 68874
Ion Ratio Lower Upper
73 100
57 19.6 18.1 27.1

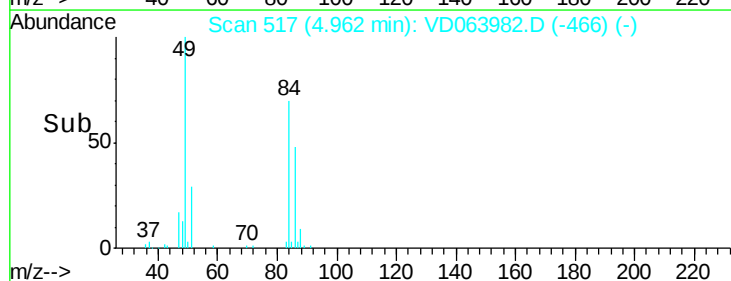
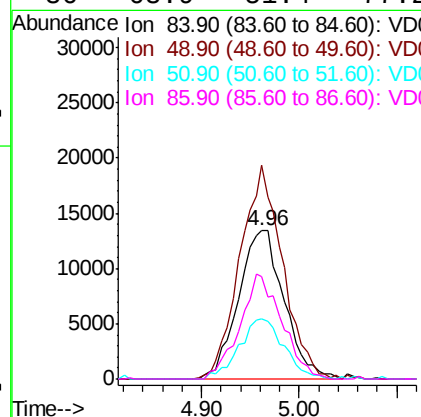
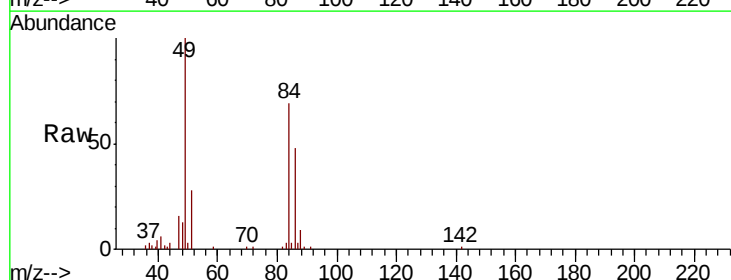
Manual Integrations
APPROVED

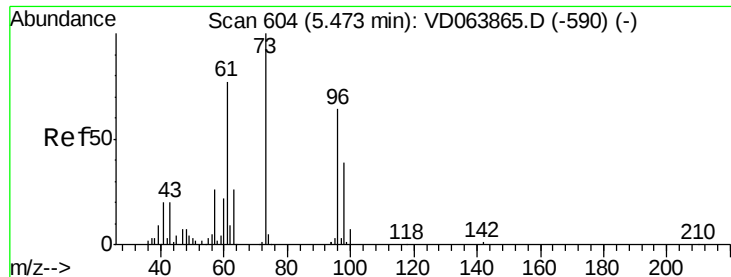
MMDadoda
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#20
Methylene Chloride
Concen: 18.694 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion: 84 Resp: 43728
Ion Ratio Lower Upper
84 100
49 144.2 97.3 145.9
51 40.8 30.1 45.1
86 68.9 51.4 77.2





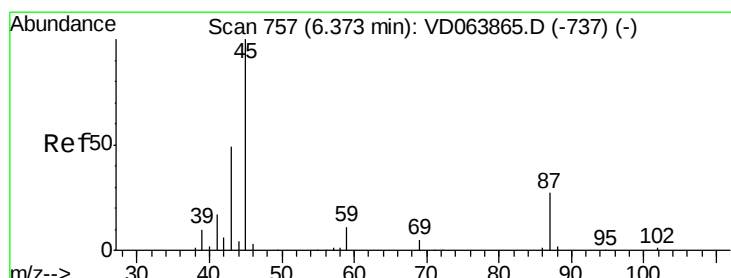
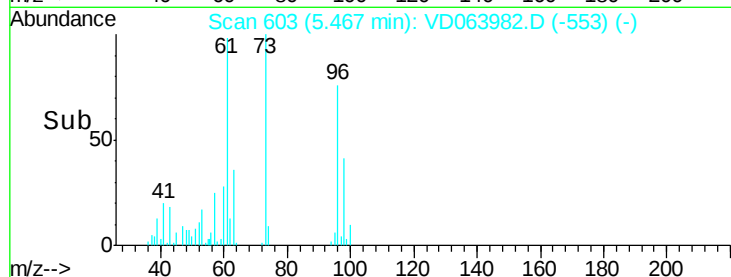
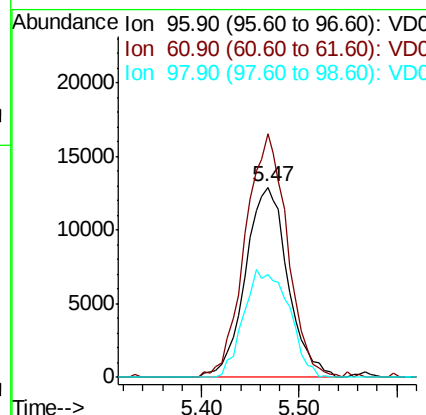
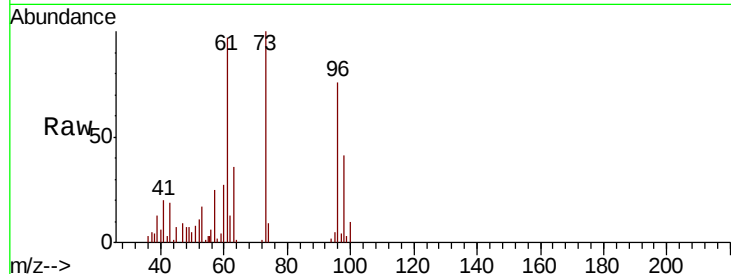
#21
trans-1,2-Dichloroethene
Concen: 19.934 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.1	96.6	145.0
98	53.9	48.7	73.1

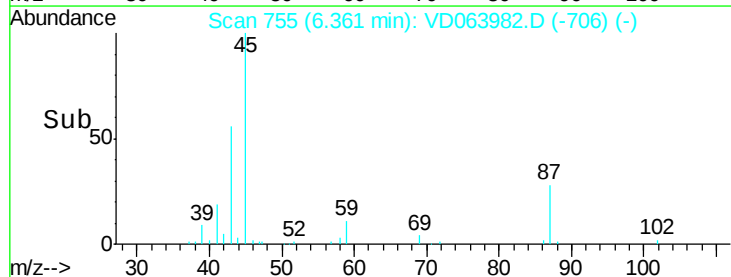
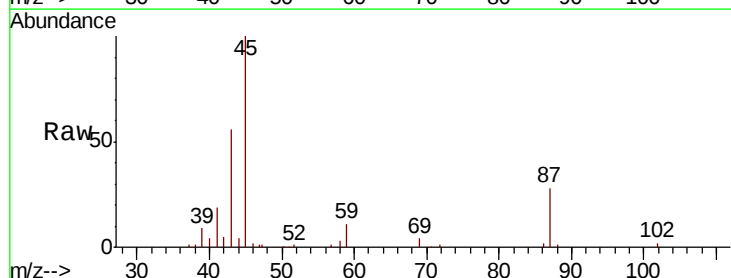
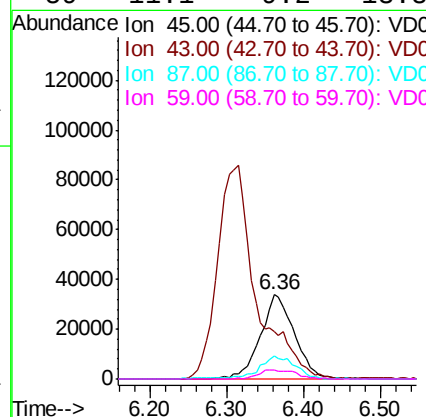
Manual Integrations
APPROVED

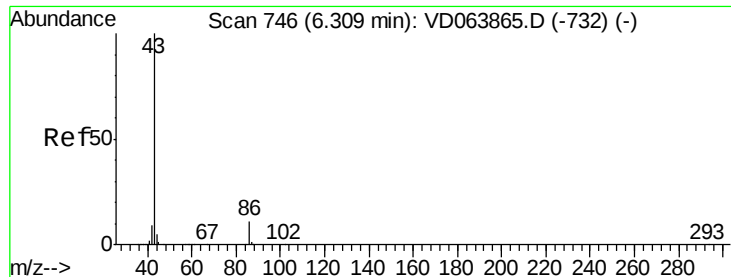
MMDadoda
10/18/2019 12:49:47 AM



#22
Diisopropyl ether
Concen: 19.330 ug/l
RT: 6.36 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.8	41.2	61.8
87	27.1	22.2	33.4
59	11.1	9.2	13.8





#23

Vinyl Acetate

Concen: 93.337 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleID :

VD1016SBS01

Tot Ion: 43 Resp: 298531

Ion Ratio Lower Upper

43 100

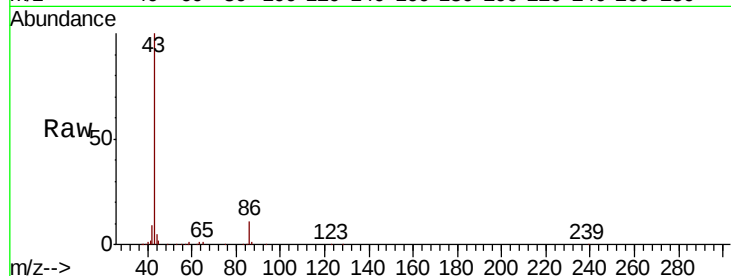
86 11.0 8.8 13.2

Manual Integrations

APPROVED

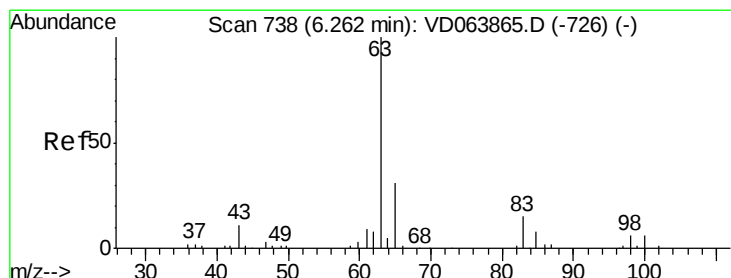
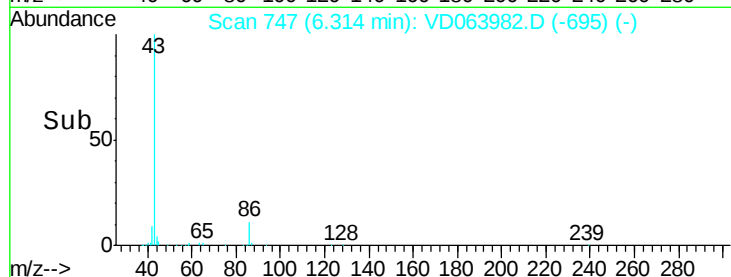
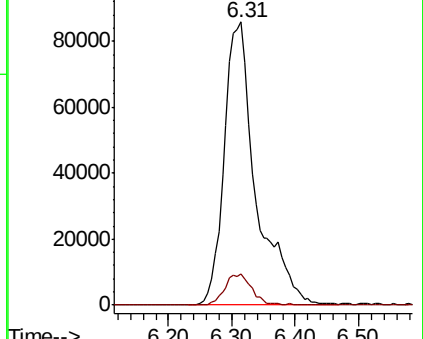
MMDadoda

10/18/2019 12:49:47 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: 20.319 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

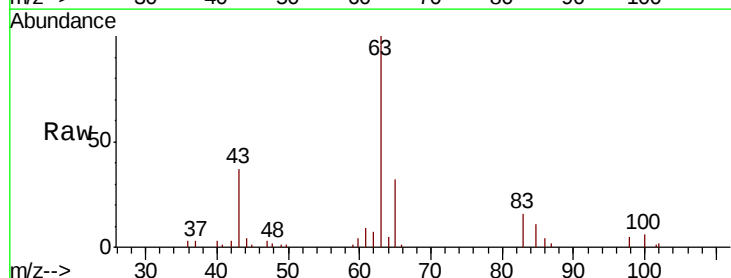
Tgt Ion: 63 Resp: 67290

Ion Ratio Lower Upper

63 100

98 5.2 3.1 9.4

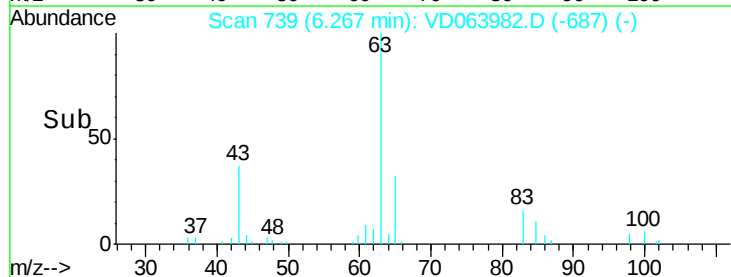
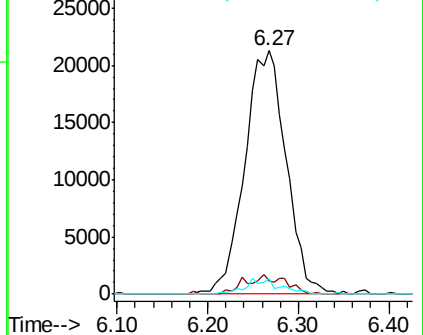
100 6.5 3.0 9.2

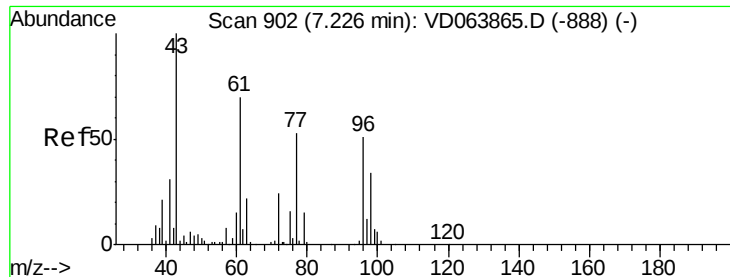


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 84.929 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 43 Resp: 48201

Ion Ratio Lower Upper

43 100

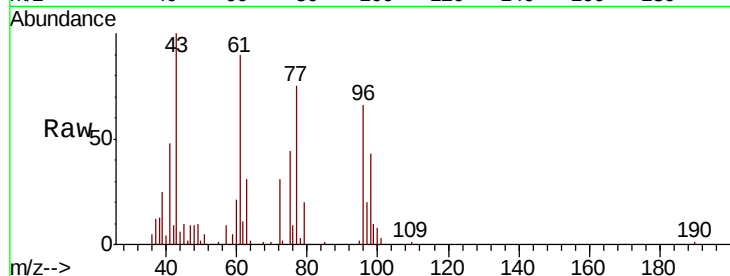
72 30.9 19.2 28.8#

Manual Integrations

APPROVED

MMDadoda

10/18/2019 12:49:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

20000

15000

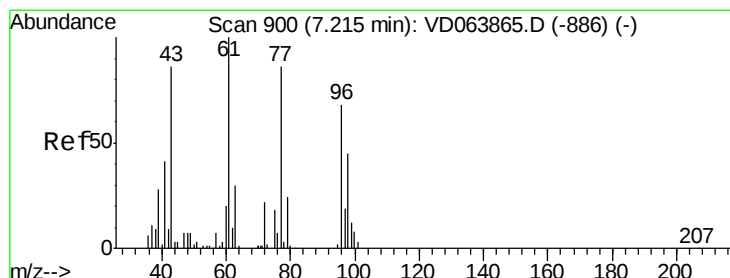
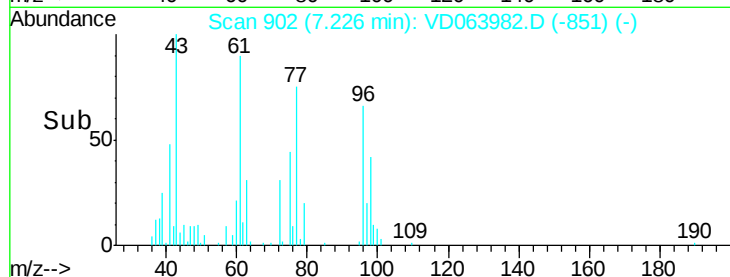
10000

5000

0

7.15 7.20 7.25 7.30

Time-->



#26

2,2-Dichloropropane

Concen: 19.693 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD063982.D

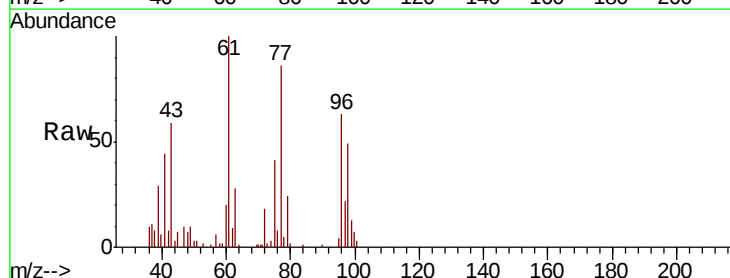
Acq: 16 Oct 2019 12:46

Tgt Ion: 77 Resp: 58994

Ion Ratio Lower Upper

77 100

97 22.3 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

20000

15000

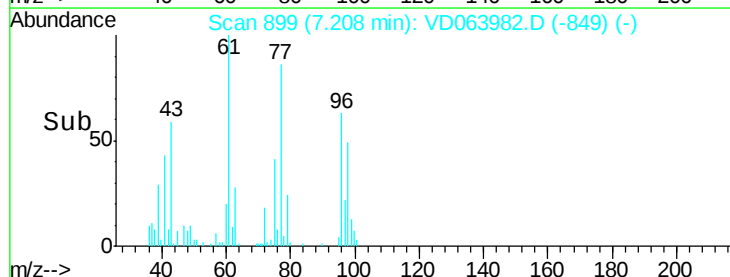
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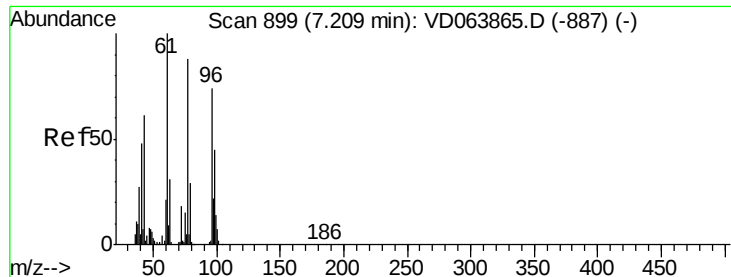
5000

0

7.10 7.20 7.30

Time-->





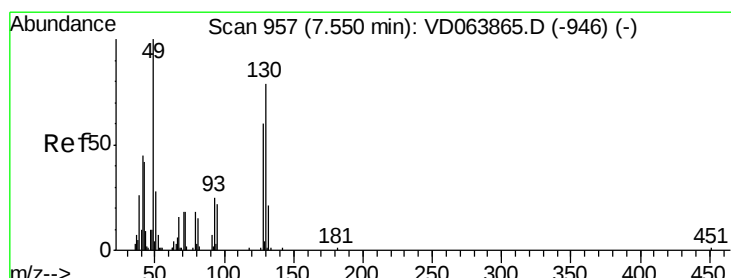
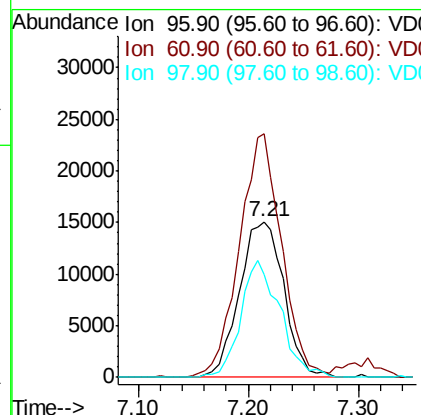
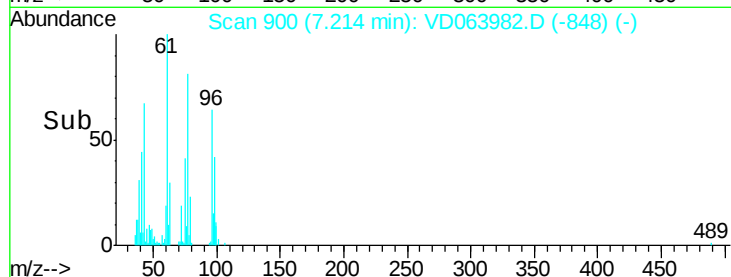
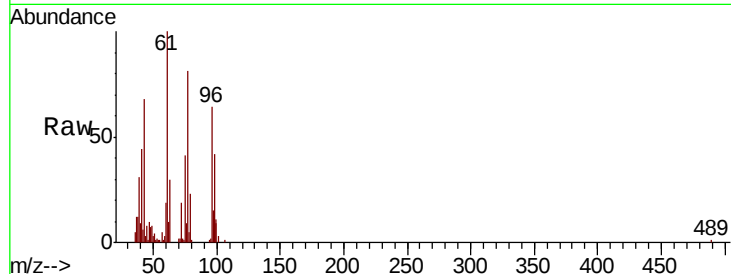
#27
 cis-1,2-Dichloroethene
 Concen: 19.065 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	280.0
98	66.5	0.0	130.4

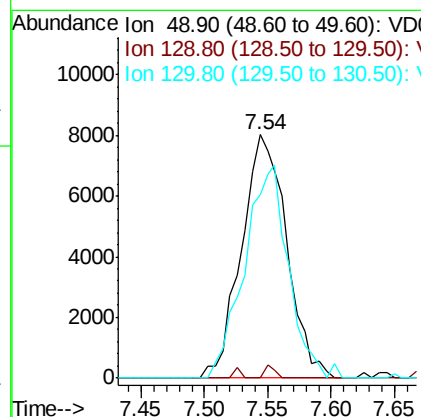
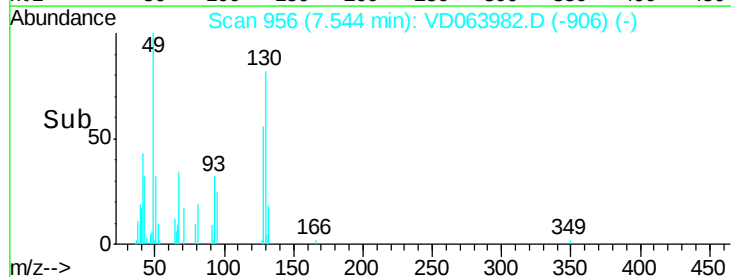
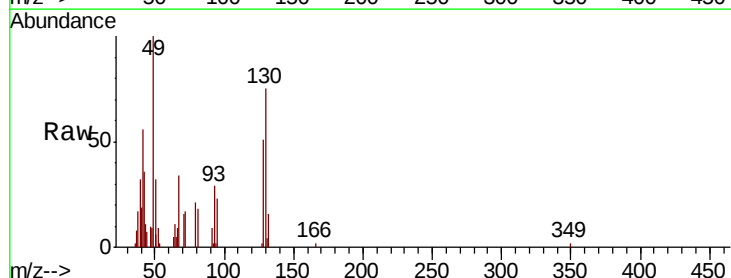
Manual Integrations
 APPROVED

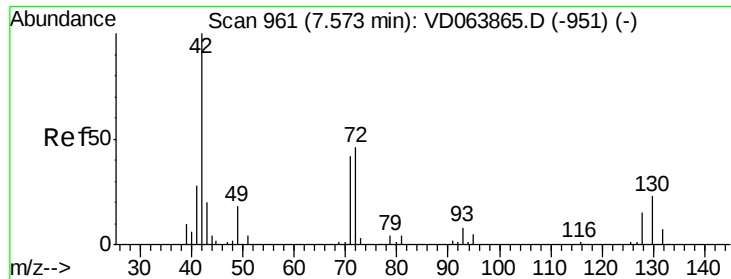
MMDadoda
 10/18/2019 12:49:47 AM



#28
 Bromochloromethane
 Concen: 17.054 ug/l
 RT: 7.54 min Scan# 956
 Delta R.T. -0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	5.6
130	85.3	66.8	100.2





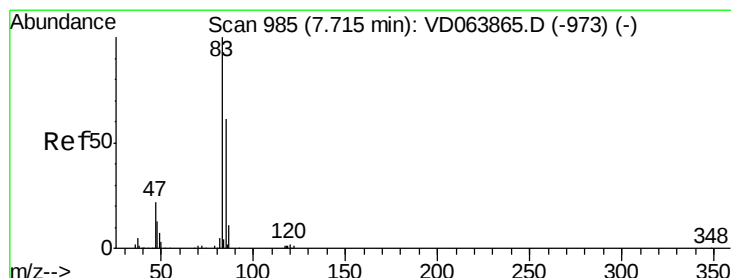
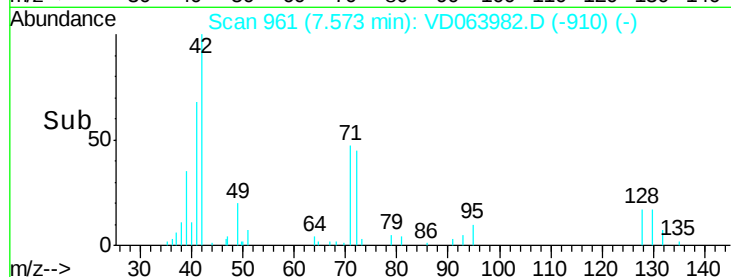
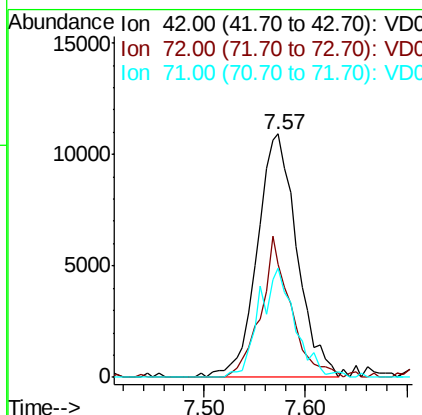
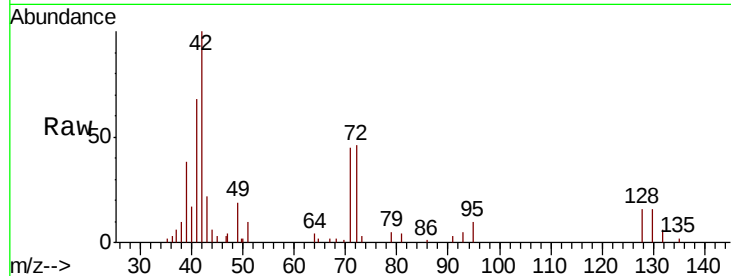
#29
Tetrahydrofuran
Concen: 89.849 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	37.6	56.4
71	40.9	35.0	52.6

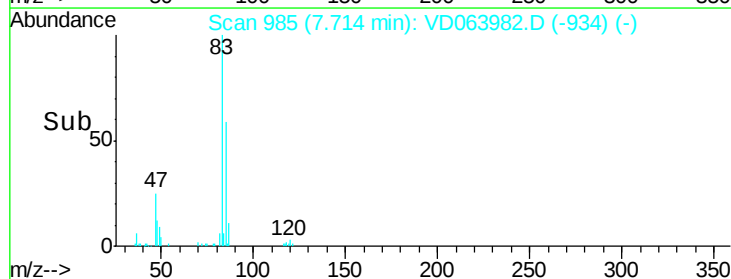
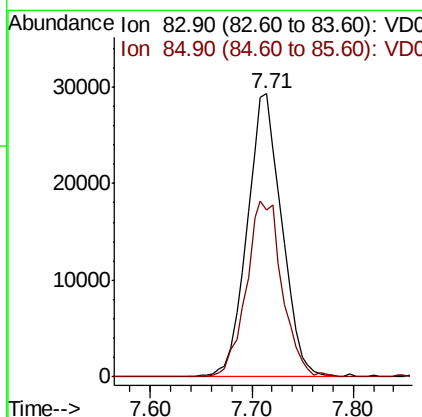
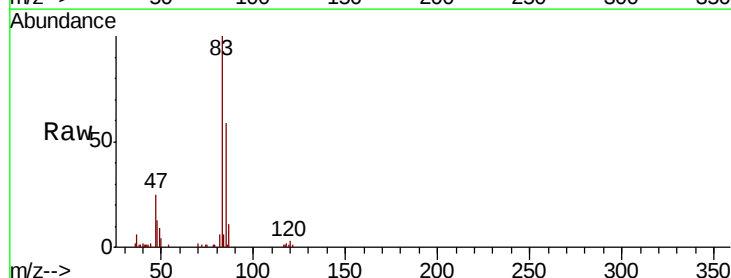
Manual Integrations
APPROVED

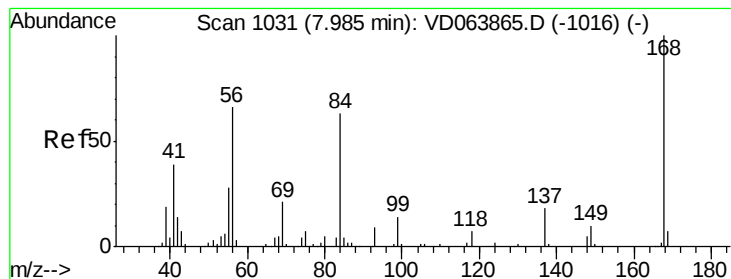
MMDadoda
10/18/2019 12:49:47 AM



#30
Chloroform
Concen: 19.245 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.0	48.9	73.3





#31

Cyclohexane

Concen: 21.946 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

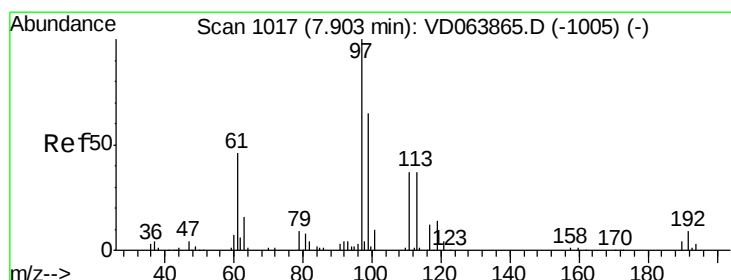
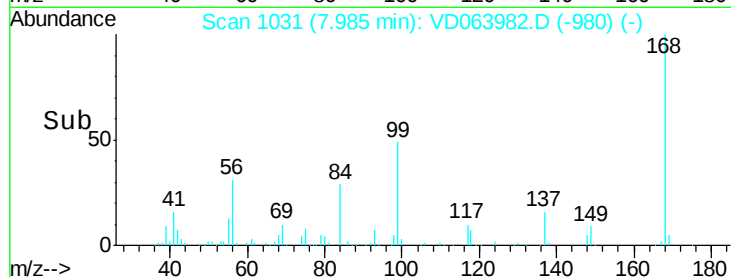
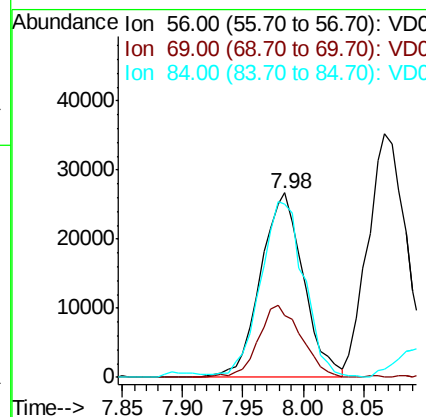
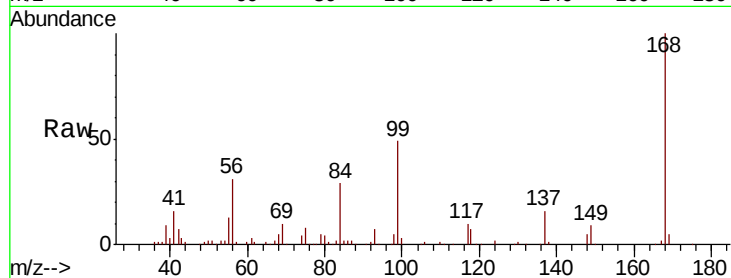
ClientSampleId :

VD1016SBS01

Tot Ion:	56	Resp:	66221
Ion Ratio	Lower	Upper	
56	100		
69	33.4	25.0	37.4
84	92.1	76.3	114.5

Manual Integrations
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10/18/2019 12:49:47 AM



#32

1,1,1-Trichloroethane

Concen: 20.251 ug/l

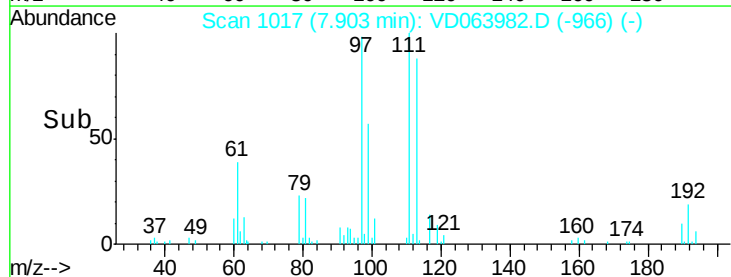
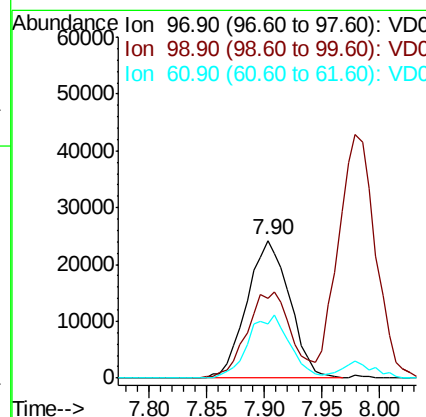
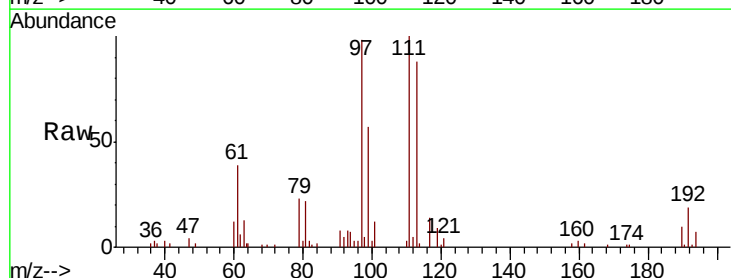
RT: 7.90 min Scan# 1017

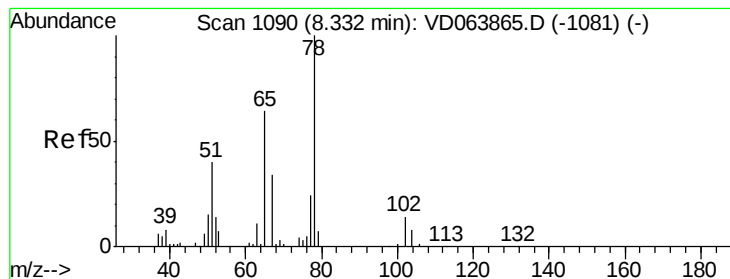
Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion:	97	Resp:	62485
Ion Ratio	Lower	Upper	
97	100		
99	64.6	52.4	78.6
61	44.2	33.8	50.8





#33

1,2-Dichloroethane-d4

Concen: 47.986 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 65 Resp: 88267

Ion Ratio Lower Upper

65 100

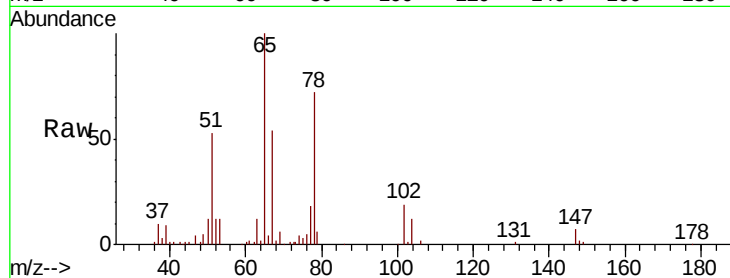
67 54.8 0.0 106.4

Manual Integrations

APPROVED

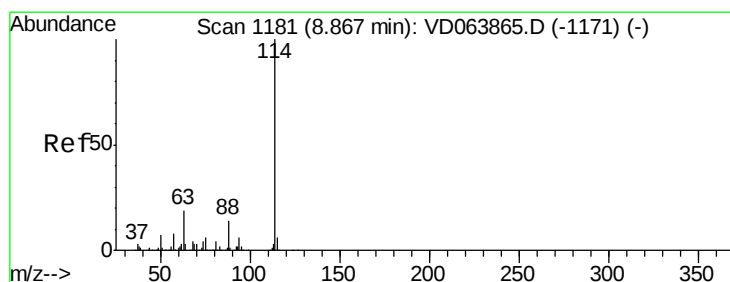
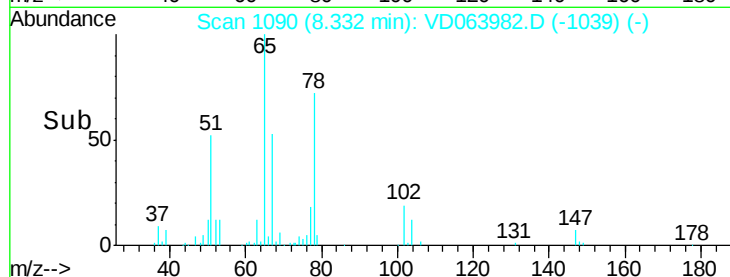
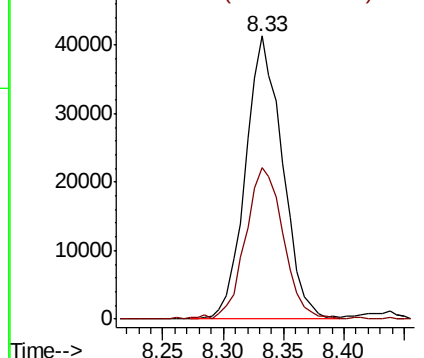
MMDadoda

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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: VD063982.D

Acq: 16 Oct 2019 12:46

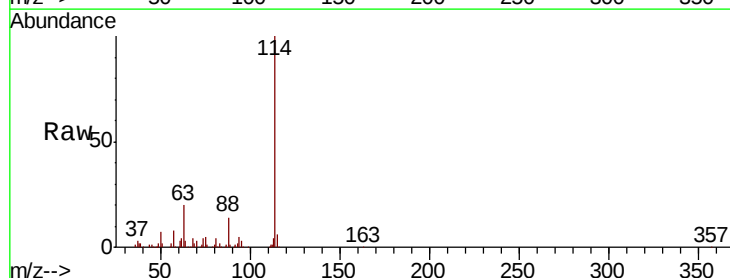
Tgt Ion: 114 Resp: 295712

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.4

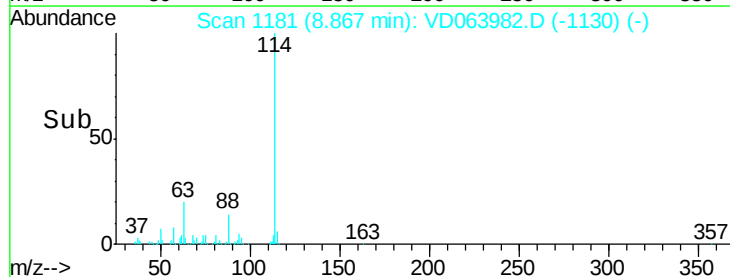
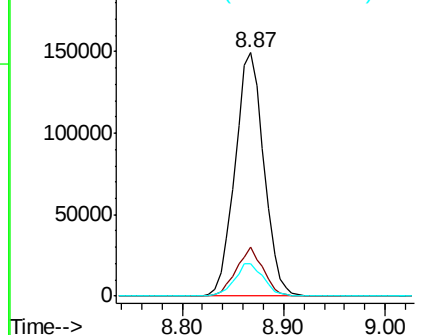
88 13.6 0.0 27.4

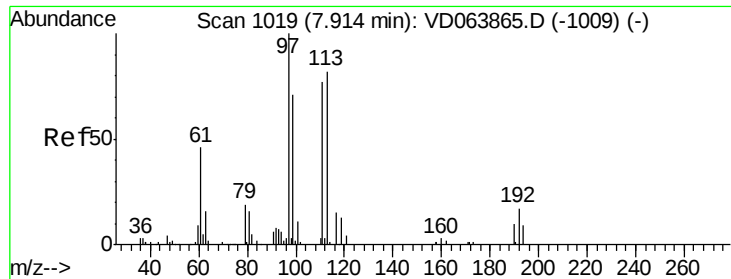


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





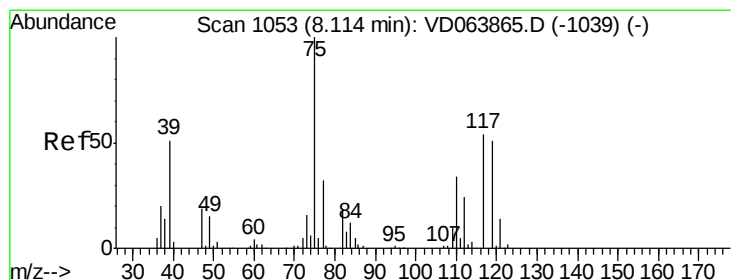
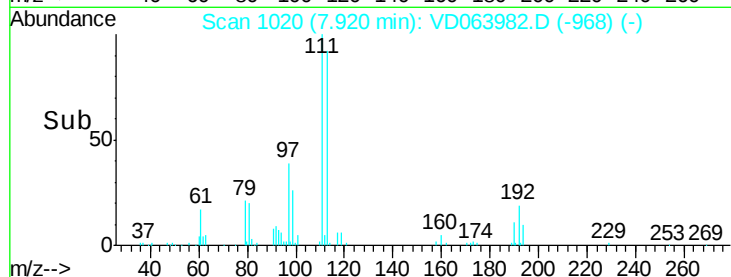
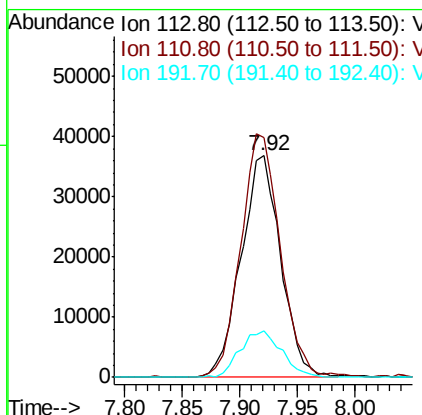
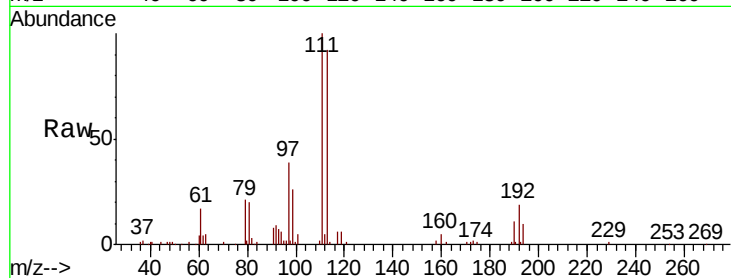
#35
Dibromofluoromethane
Concen: 48.648 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	87916		
111	109.8	82.6	123.8	
192	21.9	17.1	25.7	

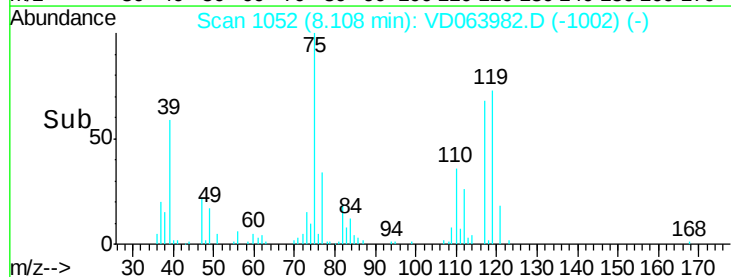
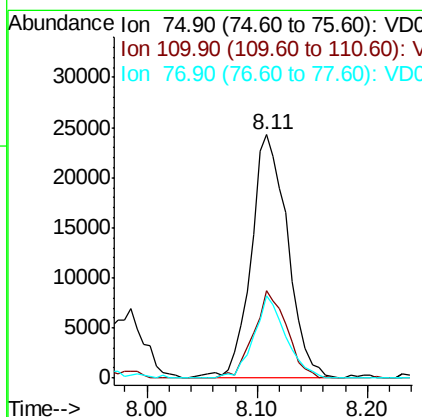
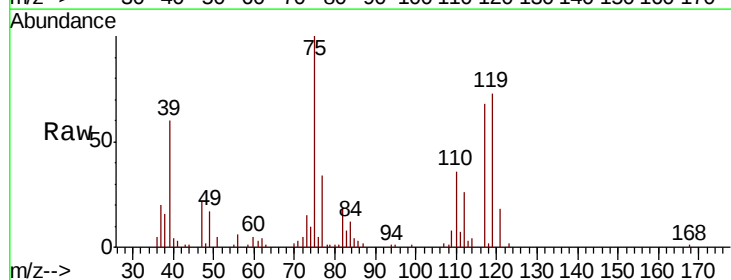
Manual Integrations
APPROVED

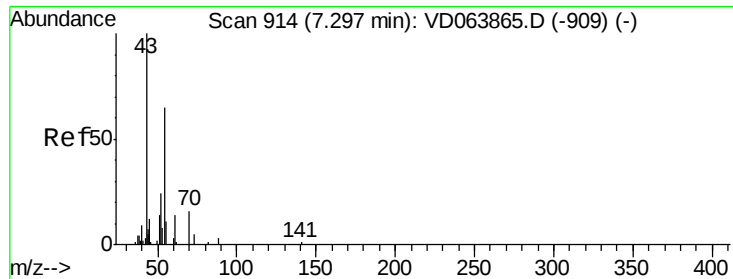
MMDadoda
10/18/2019 12:49:47 AM



#36
1,1-Dichloropropene
Concen: 20.743 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	56083		
110	32.7	17.4	52.3	
77	29.7	25.4	38.0	





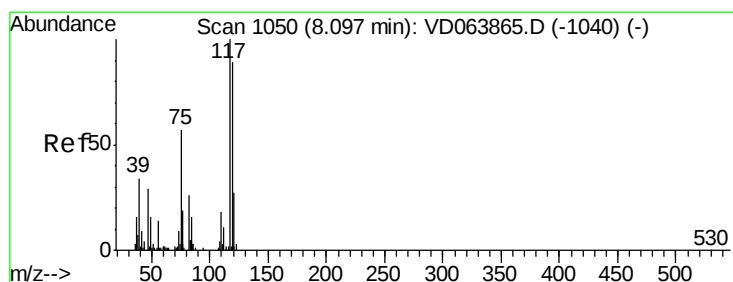
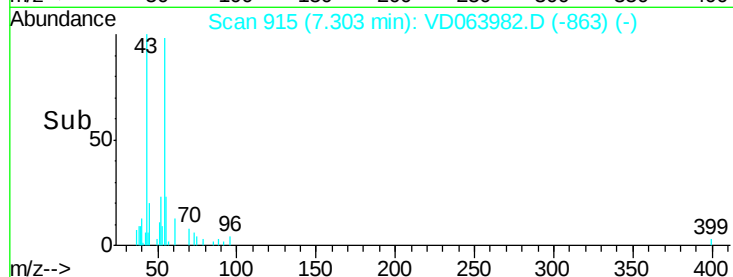
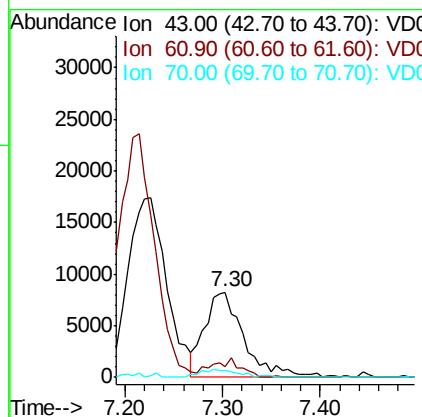
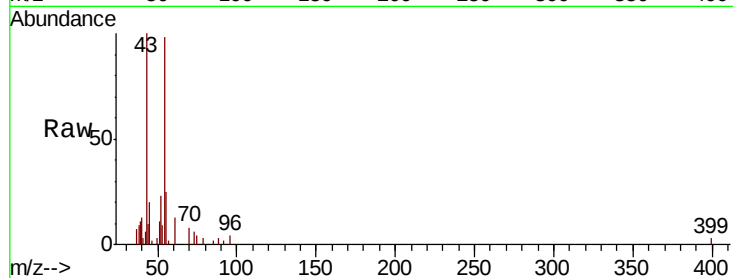
#37
Ethyl Acetate
Concen: 18.757 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	8.5	8.2	12.4

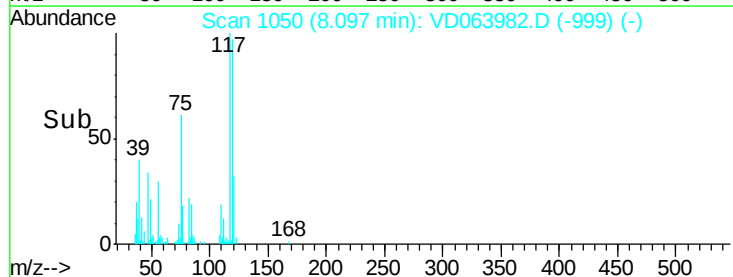
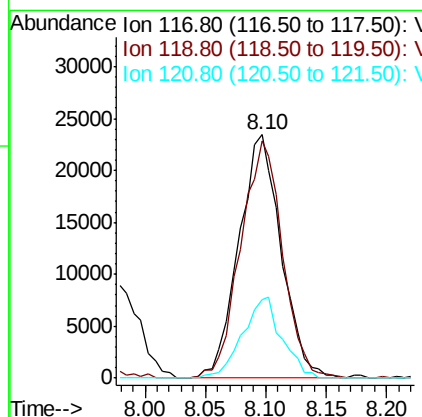
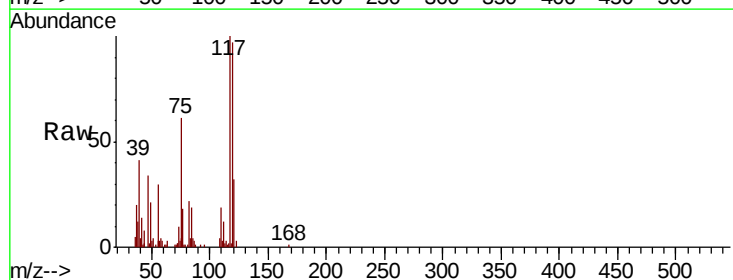
Manual Integrations
APPROVED

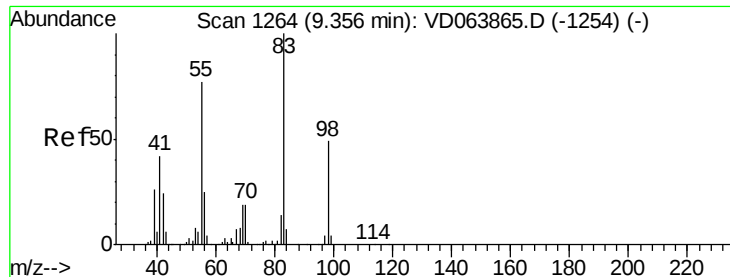
MMDadoda
10/18/2019 12:49:47 AM



#38
Carbon Tetrachloride
Concen: 20.880 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	70.8	106.2
121	32.2	21.4	32.0#





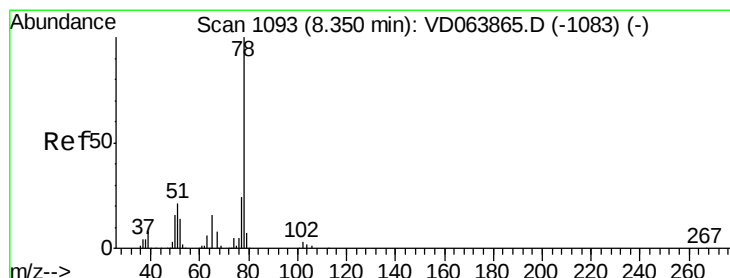
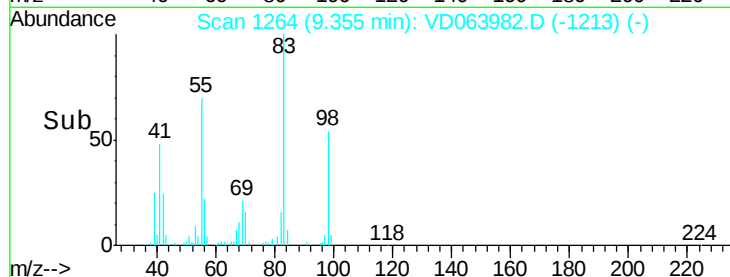
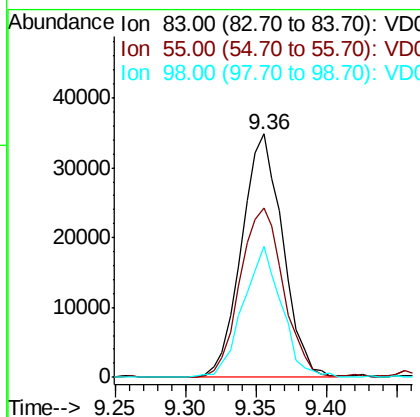
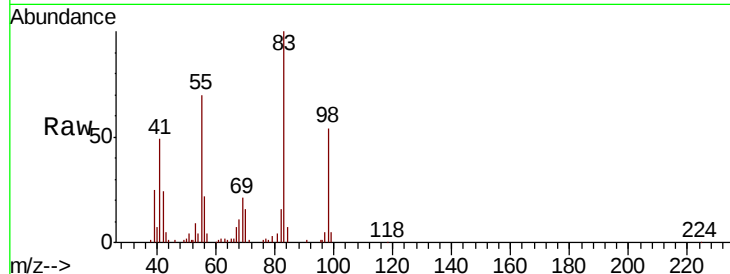
#39
Methvlcvclohexane
Concen: 21.433 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.6	61.3	91.9
98	53.6	39.3	58.9

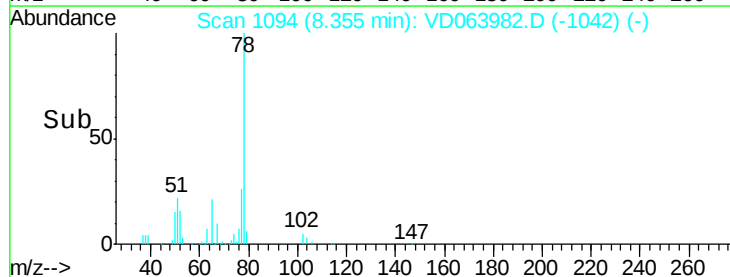
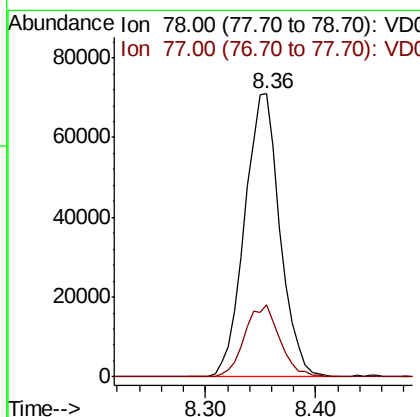
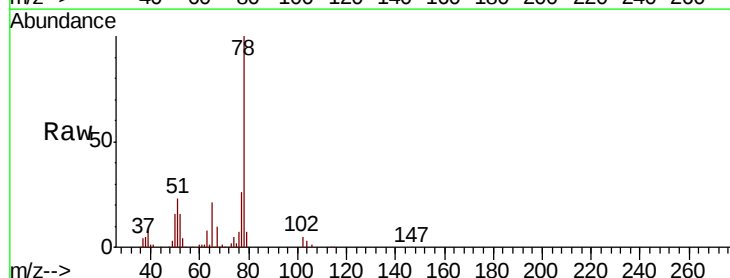
Manual Integrations
APPROVED

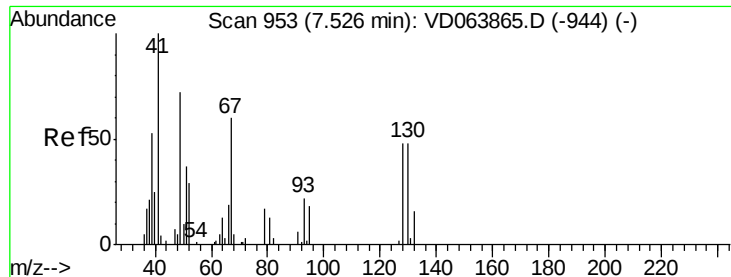
MMDadoda
10/18/2019 12:49:47 AM



#40
Benzene
Concen: 20.646 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.0	28.6





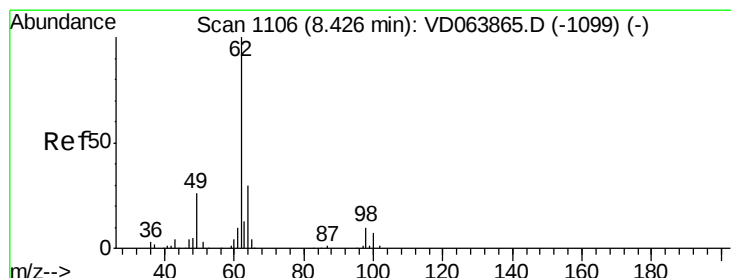
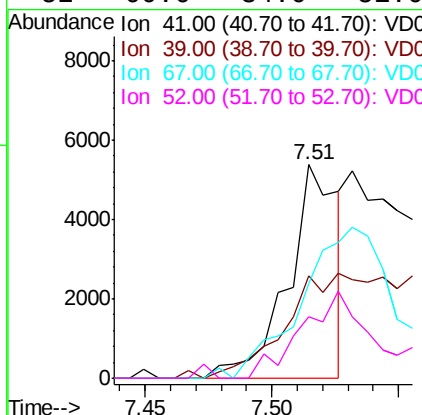
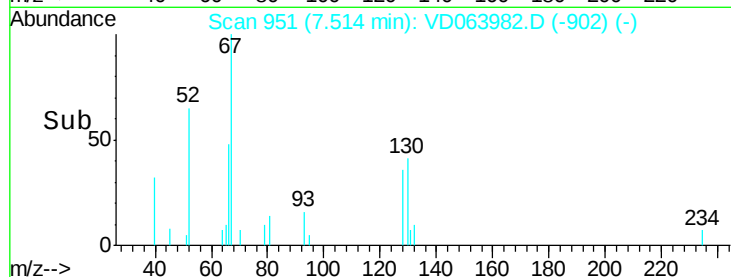
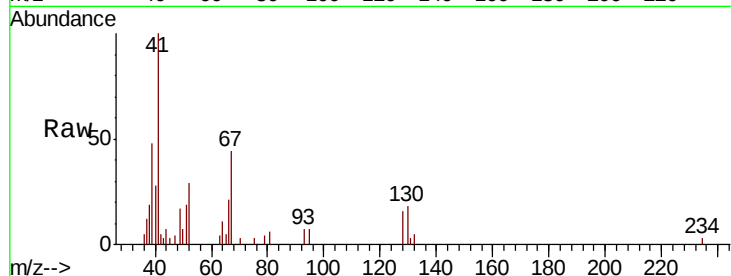
#41
Methacrylonitrile
Concen: 11.870 ug/l
RT: 7.51 min Scan# 951
Delta R.T. -0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	79.7	52.6	78.8#
67	131.9	74.2	111.2#
52	60.6	34.0	51.0#

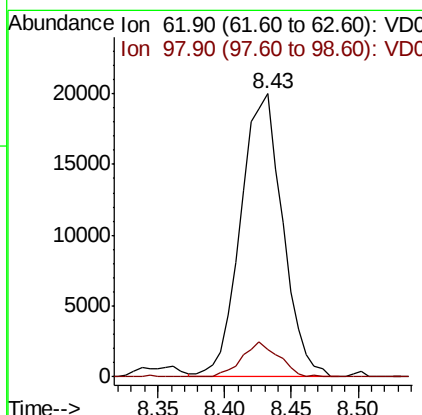
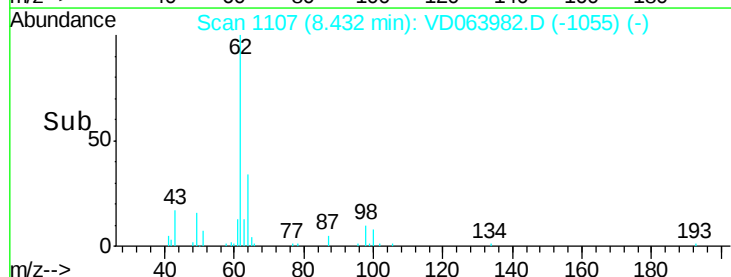
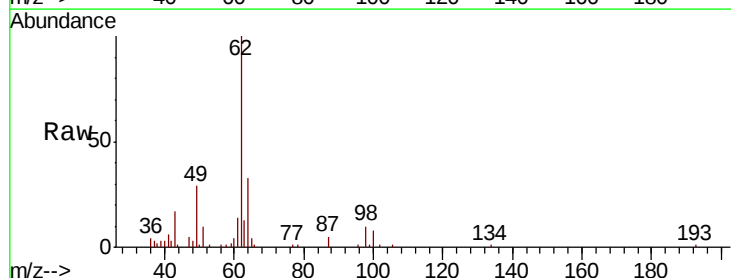
Manual Integrations
APPROVED

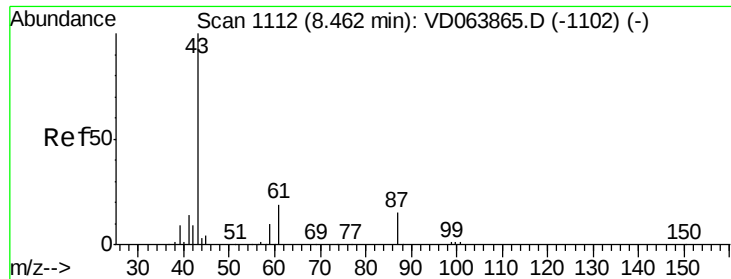
MMDadoda
10/18/2019 12:49:47 AM



#42
1,2-Dichloroethane
Concen: 19.476 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	20.0





#43

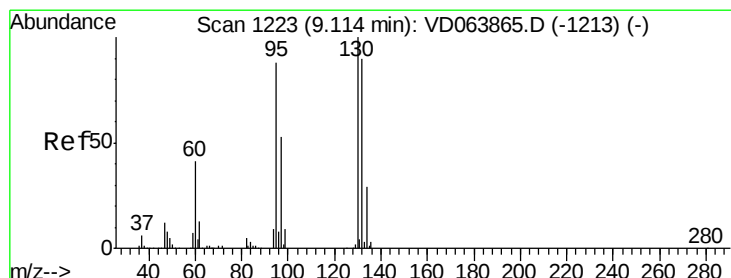
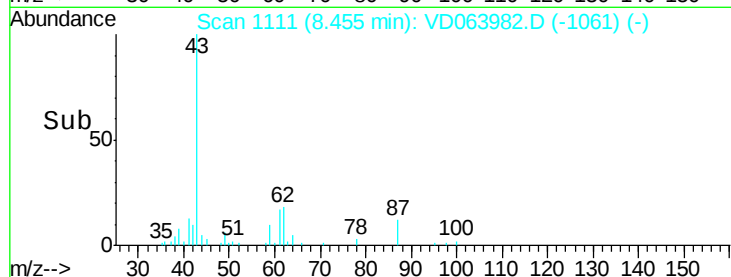
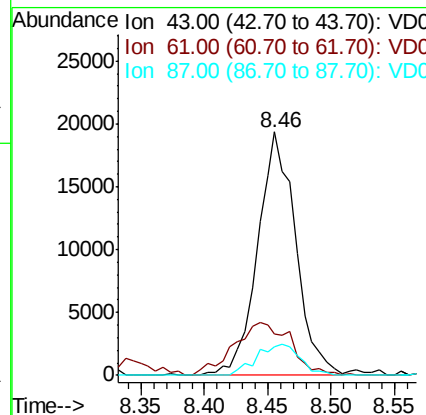
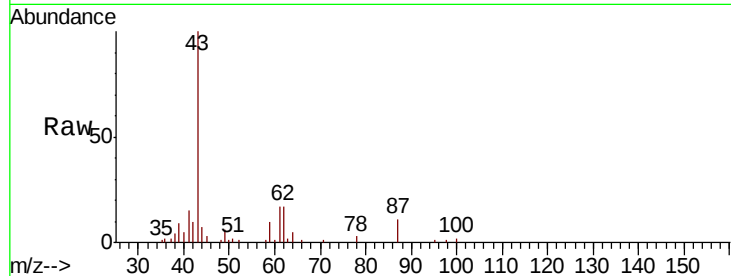
Isopropyl Acetate
 Concen: 17.770 ug/l
 RT: 8.46 min Scan# 1111
 Delta R.T. -0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1016SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.6	25.7	38.5
87	14.6	11.6	17.4

Manual Integrations
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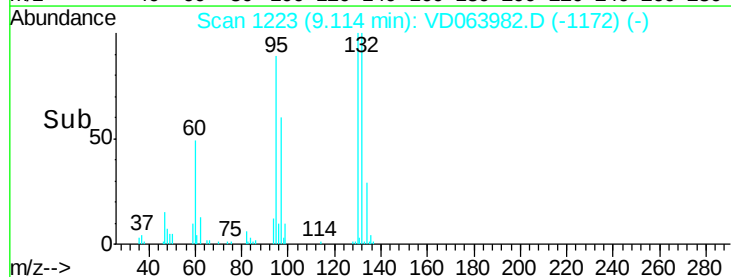
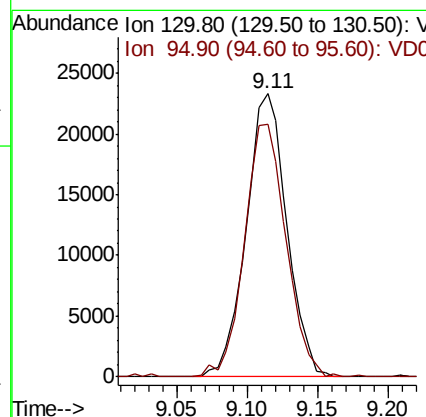
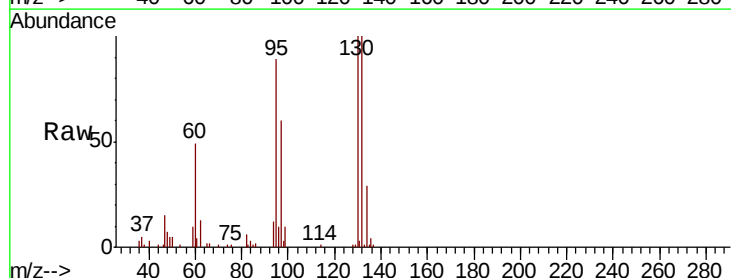
MMDadoda
 10/18/2019 12:49:47 AM

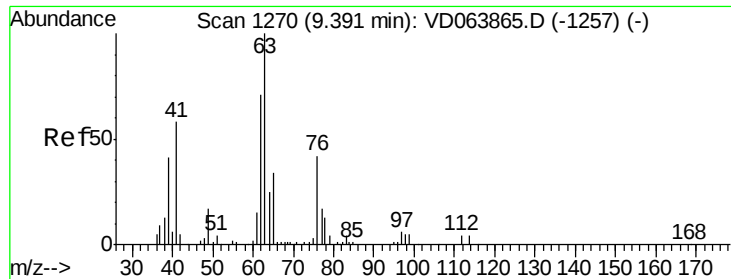


#44

Trichloroethene
 Concen: 21.056 ug/l
 RT: 9.11 min Scan# 1223
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.3	0.0	175.6





#45

1,2-Dichloropropane

Concen: 19.640 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 63 Resp: 37248

Ion Ratio Lower Upper

63 100

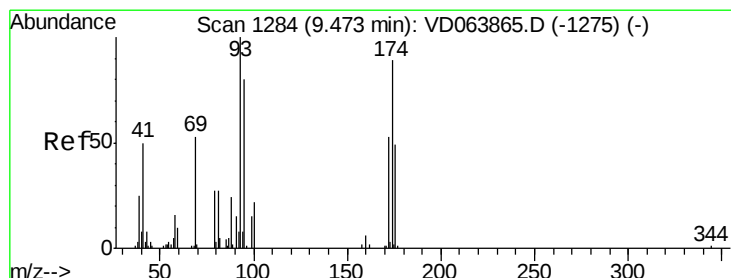
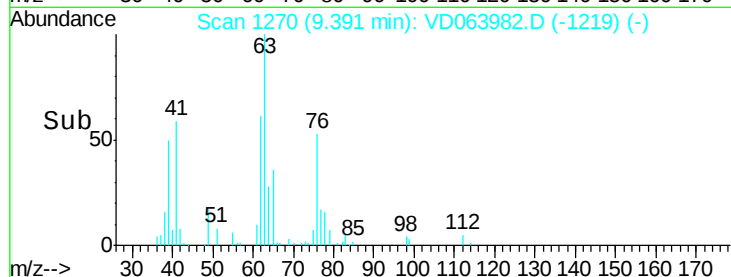
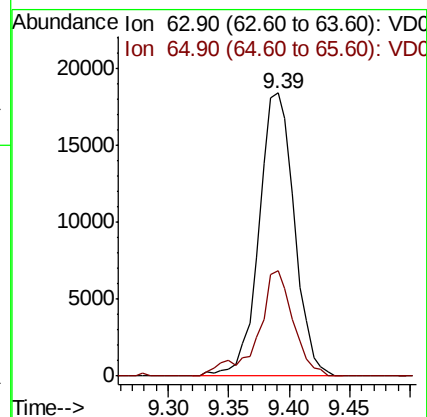
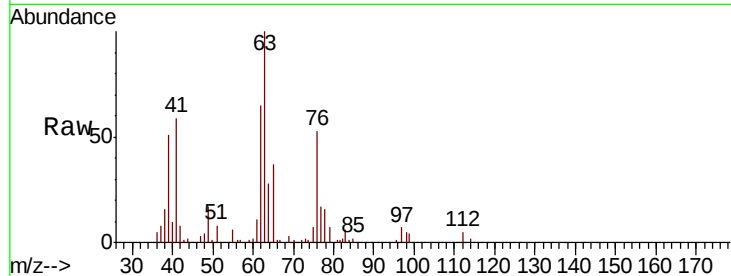
65 37.1 27.3 40.9

Manual Integrations

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#46

Dibromomethane

Concen: 19.719 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

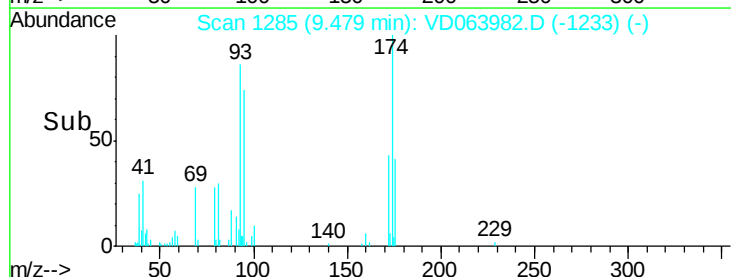
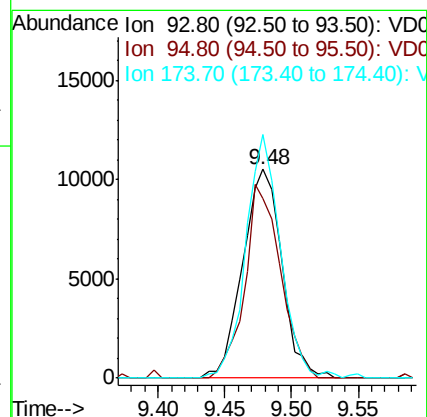
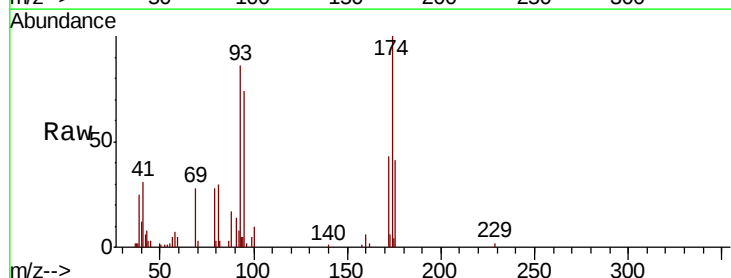
Tgt Ion: 93 Resp: 21298

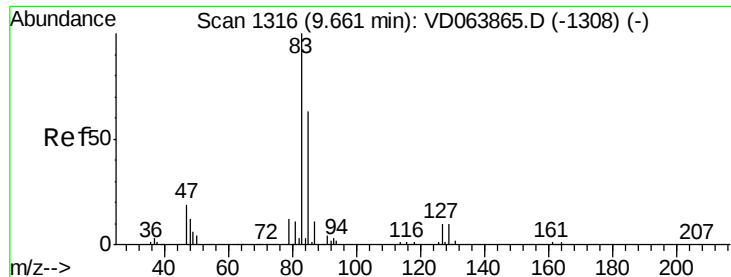
Ion Ratio Lower Upper

93 100

95 84.7 66.0 99.0

174 103.1 83.4 125.0





#47

Bromodichloromethane

Concen: 19.555 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

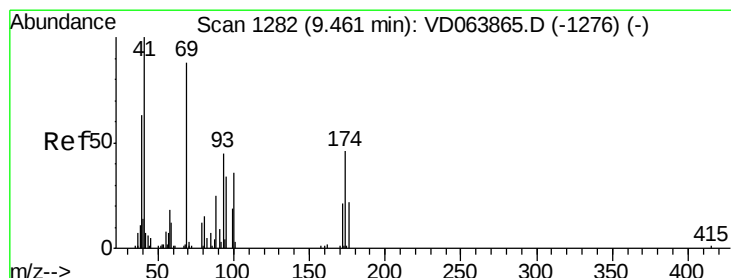
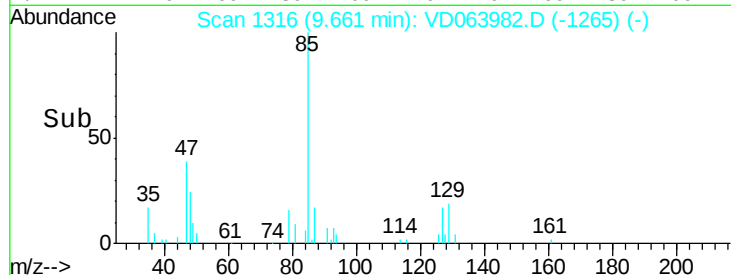
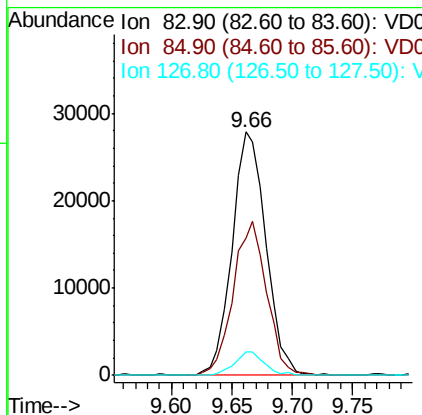
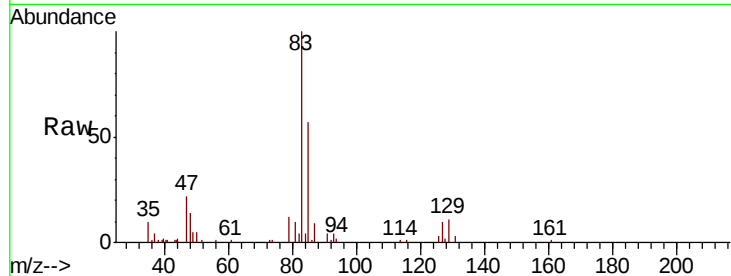
ClientSampleId :

VD1016SBS01

Tot Ion:	83	Resp:	54378
Ion	Ratio	Lower	Upper
83	100		
85	56.6	50.2	75.2
127	9.6	7.6	11.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.068 ug/l

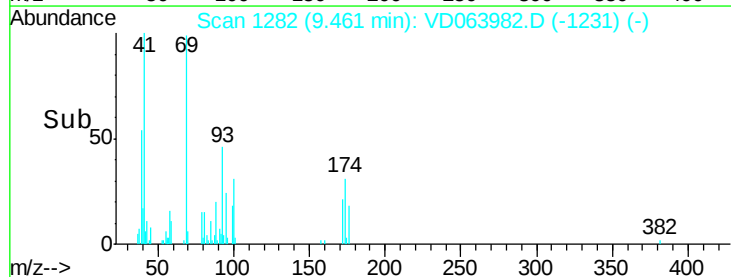
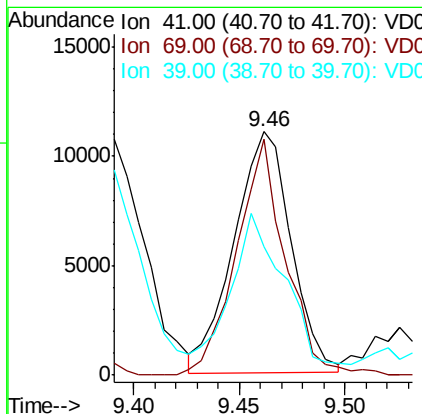
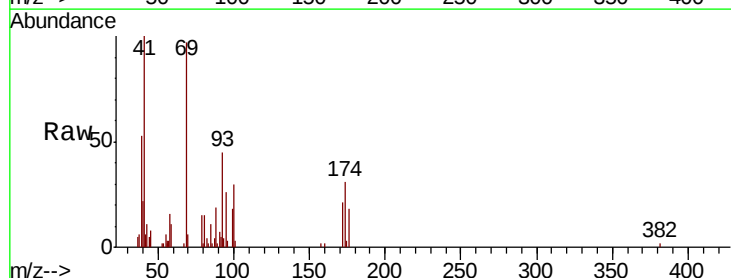
RT: 9.46 min Scan# 1282

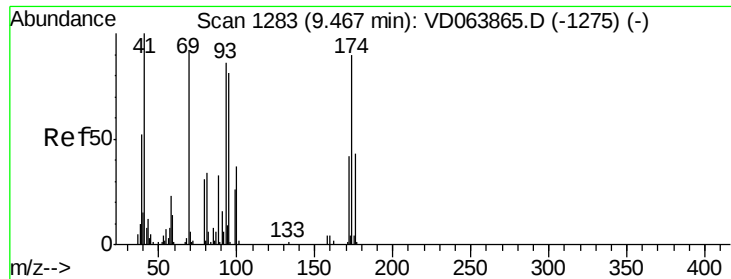
Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion:	41	Resp:	20716
Ion	Ratio	Lower	Upper
41	100		
69	84.2	75.1	112.7
39	55.8	50.2	75.2





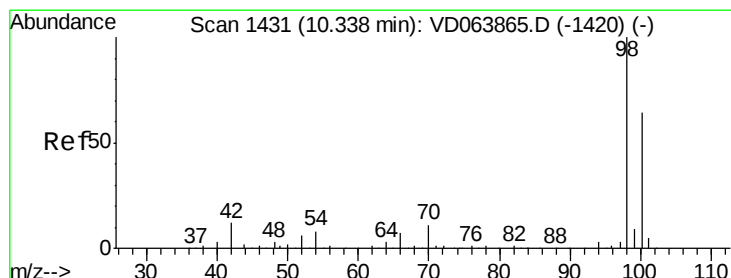
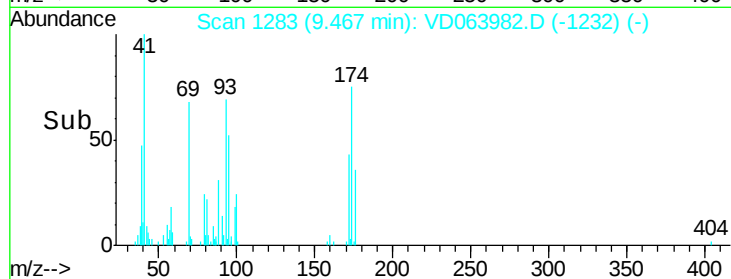
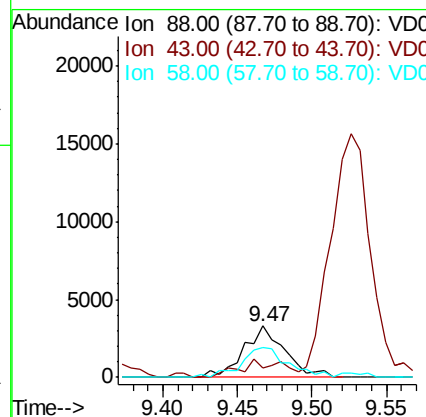
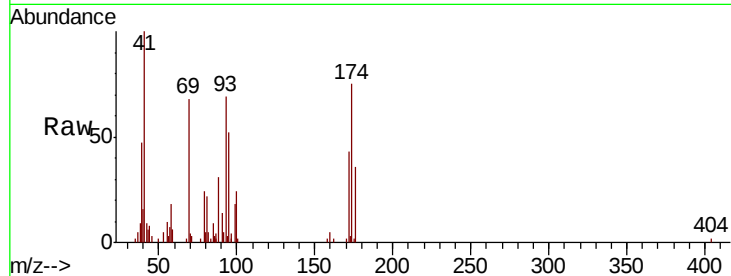
#49
1,4-Dioxane
Concen: 421.219 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.9	27.6	41.4
58	65.3	54.1	81.1

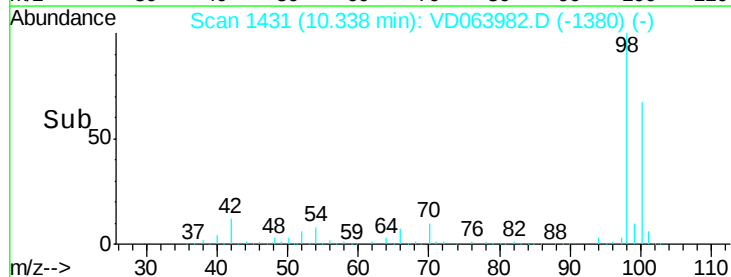
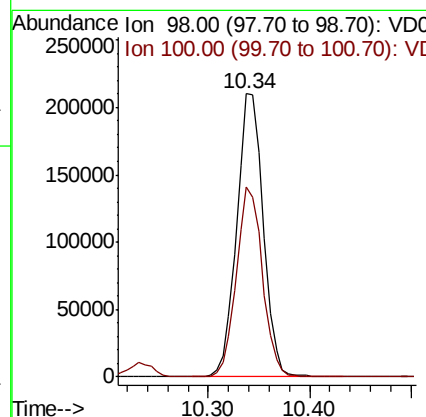
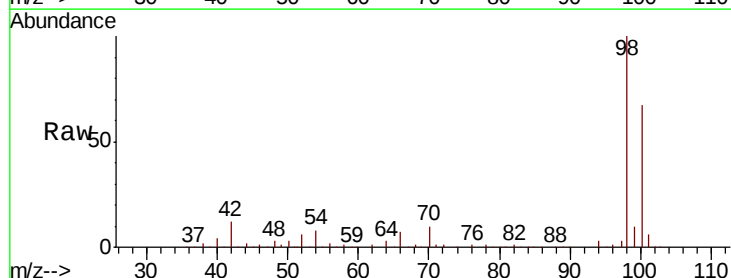
Manual Integrations
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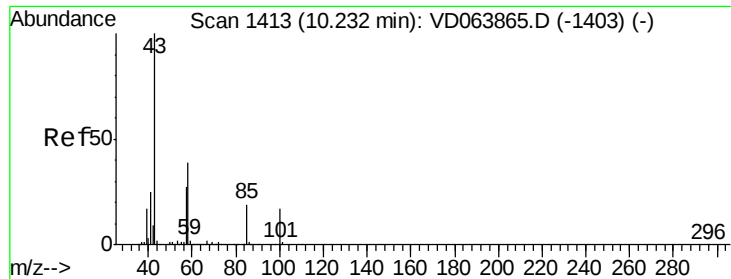
MMDadoda
10/18/2019 12:49:47 AM



#50
Toluene-d8
Concen: 52.190 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 93.333 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 43 Resp: 109756

Ion Ratio Lower Upper

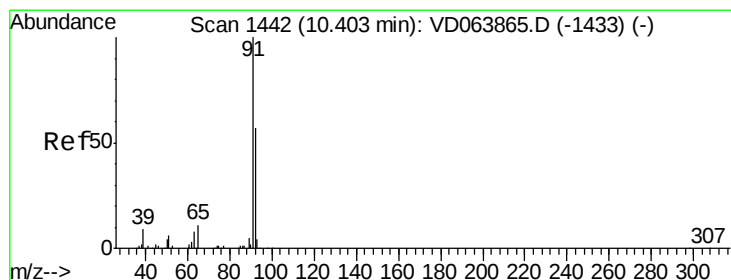
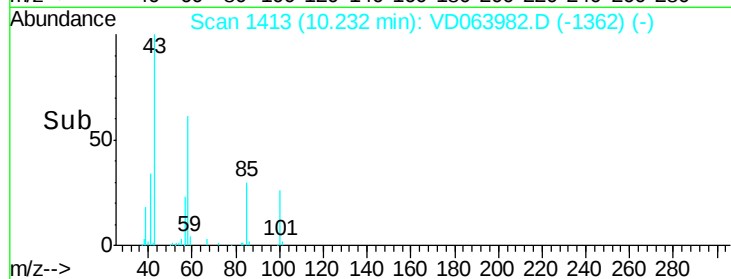
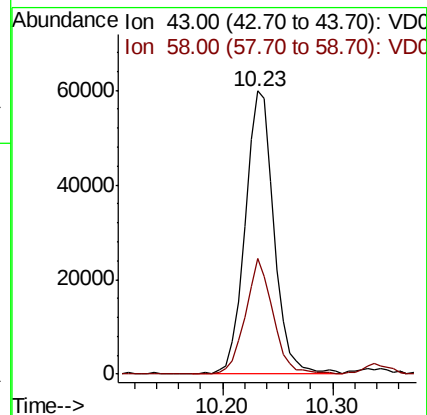
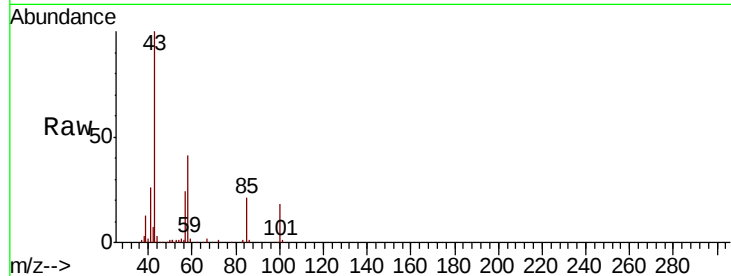
43 100

58 39.0 33.0 49.4

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10/18/2019 12:49:47 AM



#52

Toluene

Concen: 20.417 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD063982.D

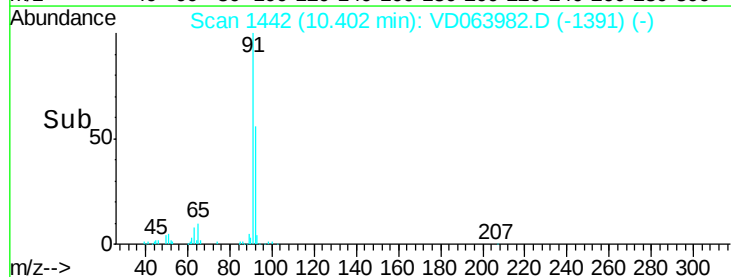
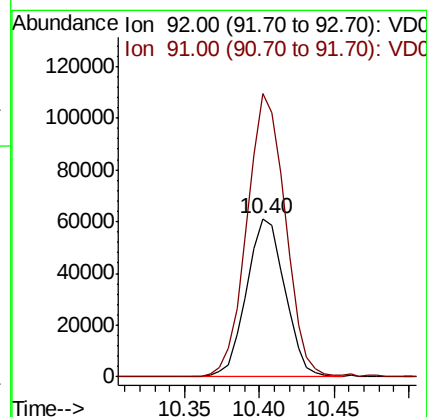
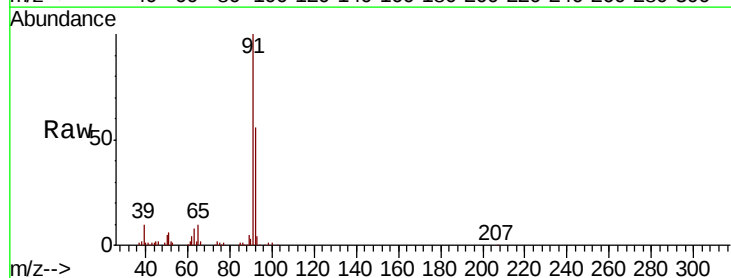
Acq: 16 Oct 2019 12:46

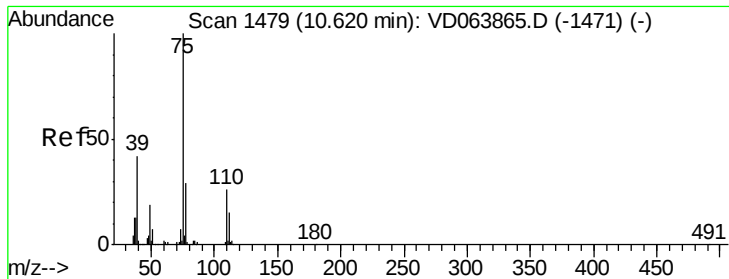
Tgt Ion: 92 Resp: 108600

Ion Ratio Lower Upper

92 100

91 180.3 139.5 209.3





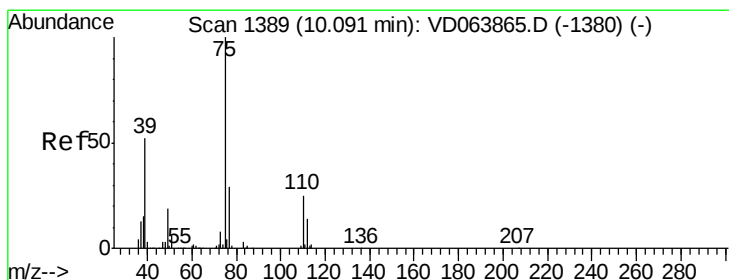
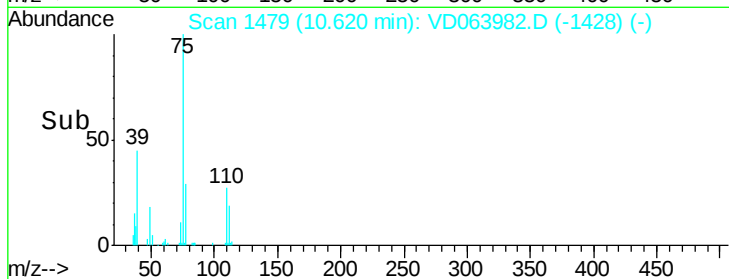
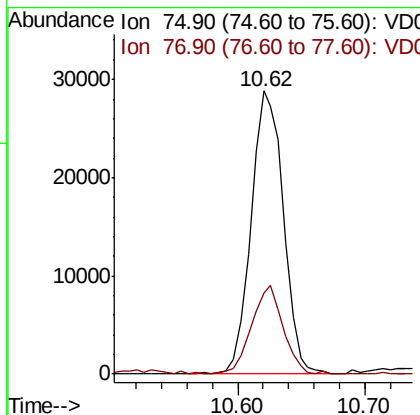
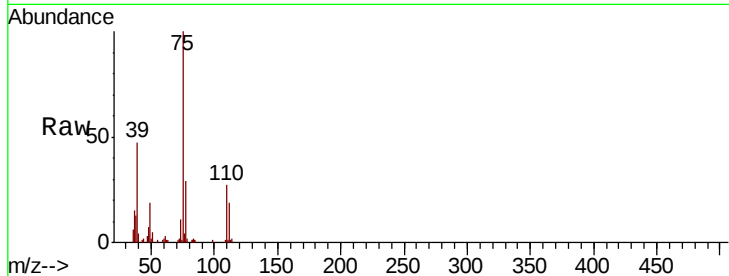
#53
 t-1,3-Dichloropropene
 Concen: 18.832 ug/l
 RT: 10.62 min Scan# 1479
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion: 75 Resp: 51100
 Ion Ratio Lower Upper
 75 100
 77 28.9 22.8 34.2

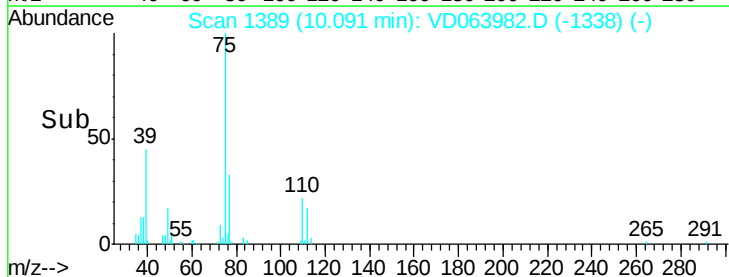
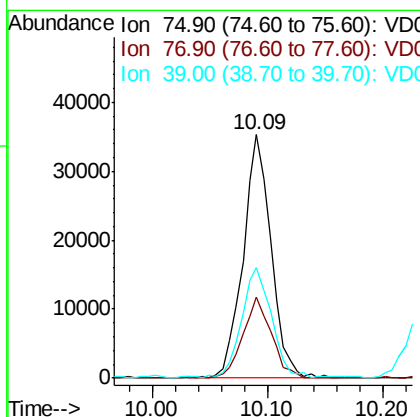
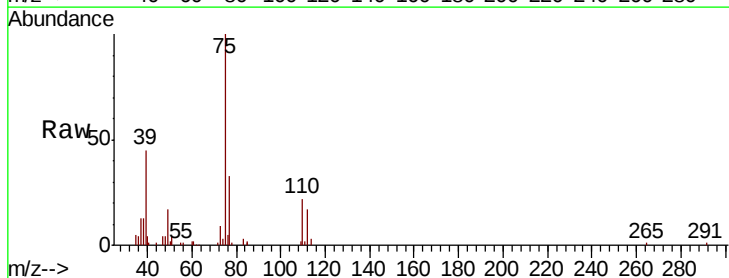
Manual Integrations
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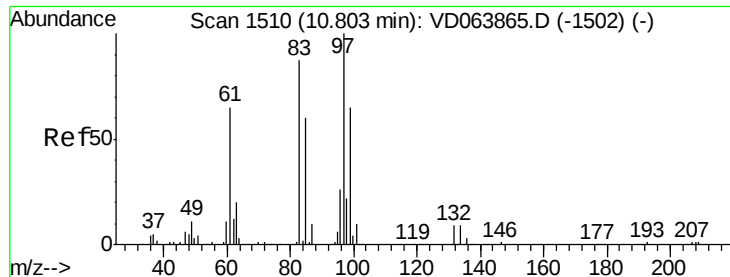
MMDadoda
 10/18/2019 12:49:47 AM



#54
 cis-1,3-Dichloropropene
 Concen: 19.031 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion: 75 Resp: 59445
 Ion Ratio Lower Upper
 75 100
 77 33.2 23.2 34.8
 39 44.7 41.5 62.3





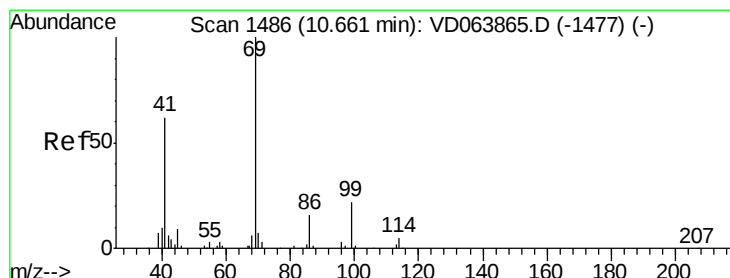
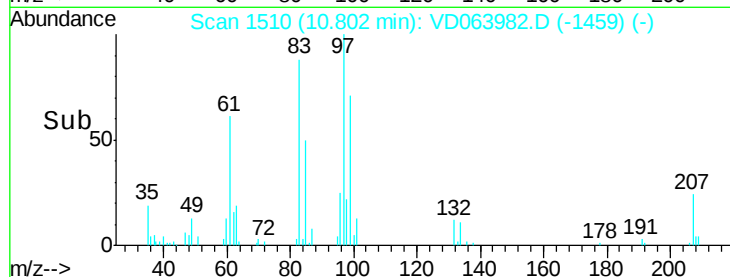
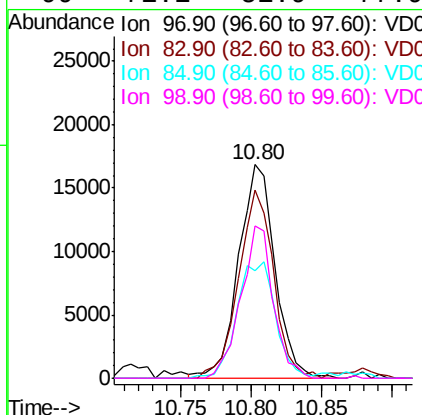
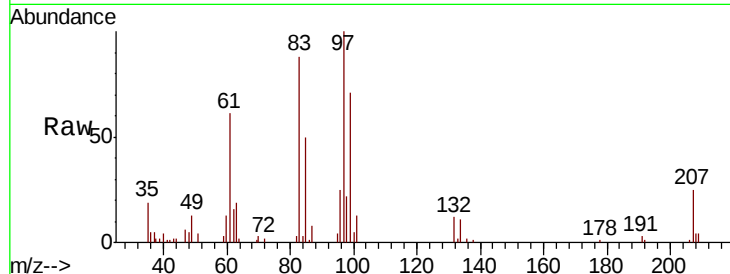
#55
 1,1,2-Trichloroethane
 Concen: 19.976 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.2	69.7	104.5
85	50.4	48.1	72.1
99	71.1	51.9	77.9

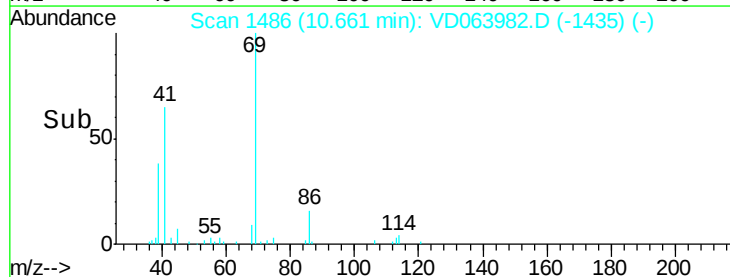
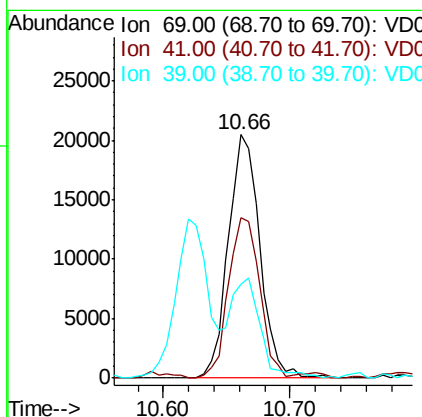
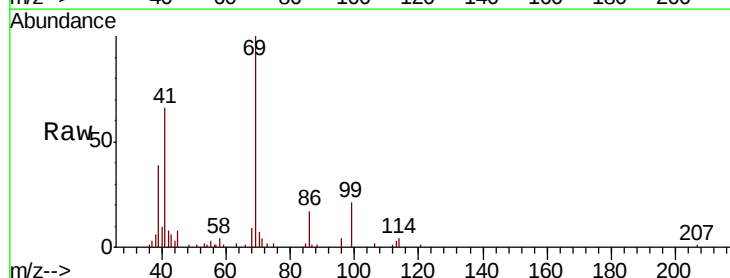
Manual Integrations
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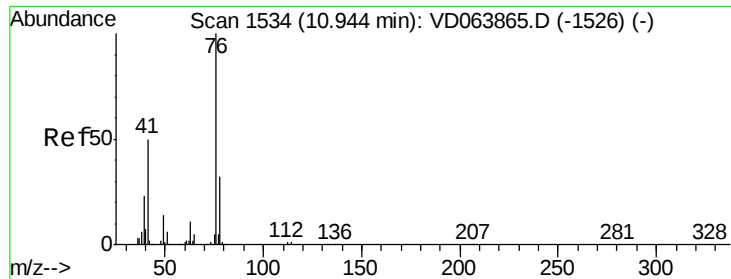
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 18.256 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.4	51.3	76.9
39	39.9	28.0	42.0





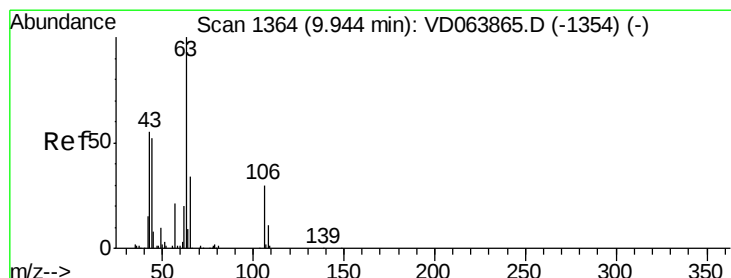
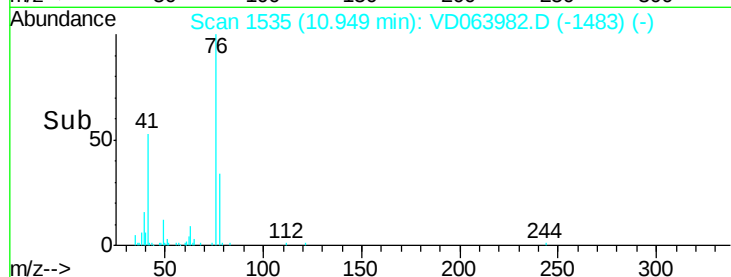
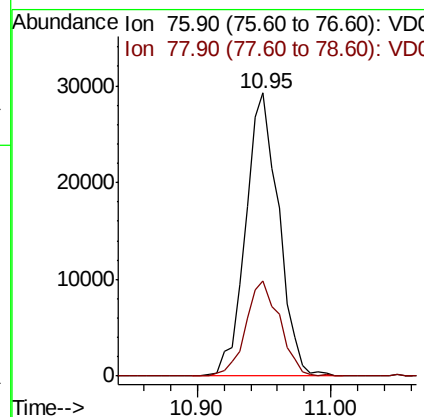
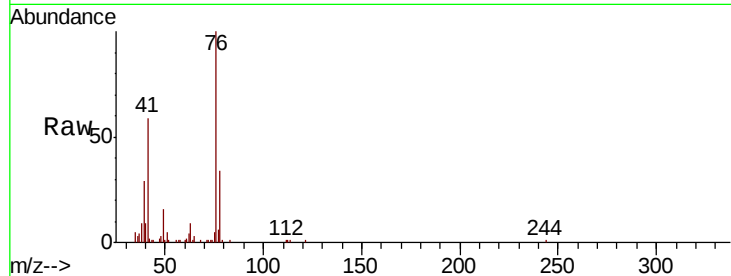
#57
 1,3-Dichloropropane
 Concen: 19.135 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion: 76 Resp: 49929
 Ion Ratio Lower Upper
 76 100
 78 34.5 26.6 40.0

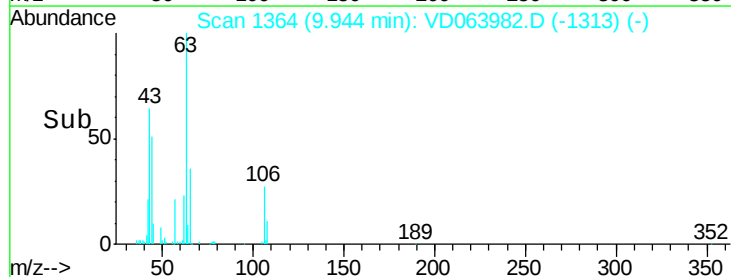
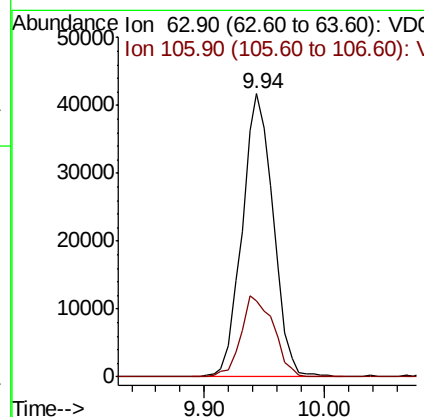
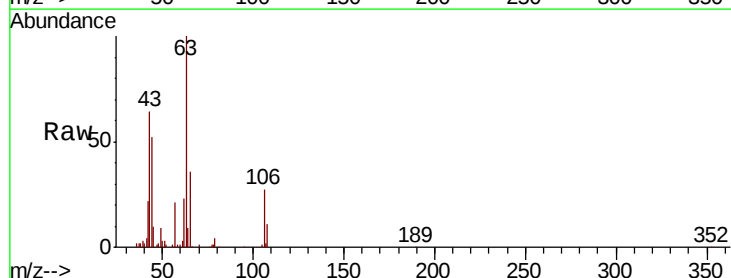
Manual Integrations
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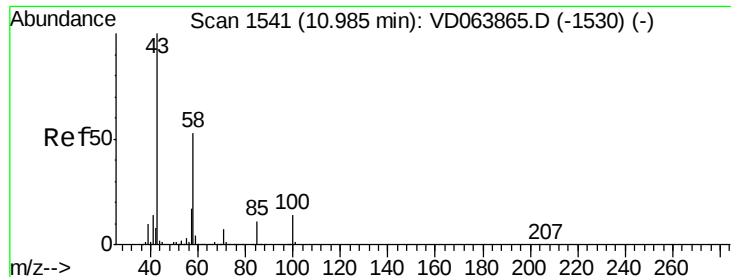
MMDadoda
 10/18/2019 12:49:47 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.215 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion: 63 Resp: 74888
 Ion Ratio Lower Upper
 63 100
 106 30.1 24.3 36.5





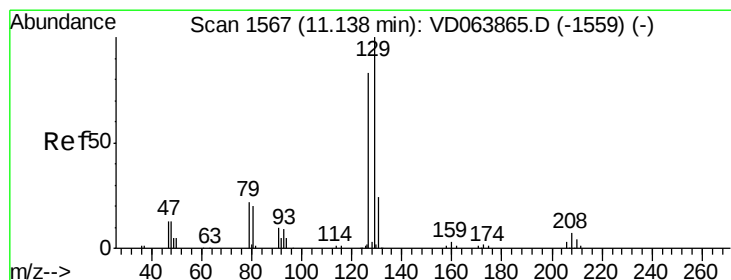
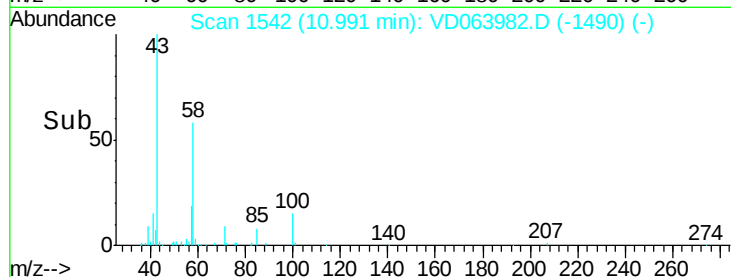
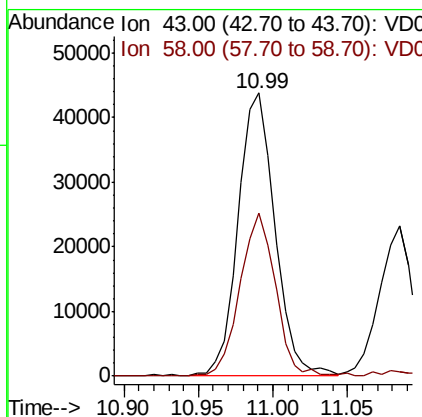
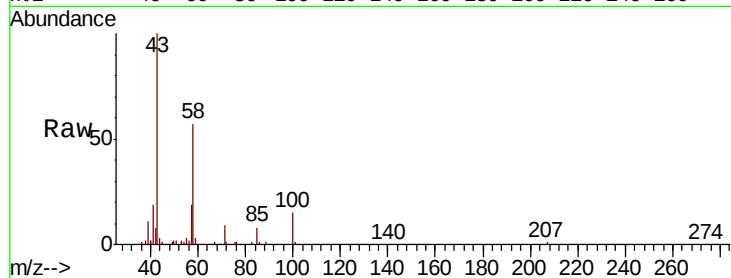
#59
2-Hexanone
Concen: 88.467 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion: 43 Resp: 75255
Ion Ratio Lower Upper
43 100
58 55.0 27.7 83.0

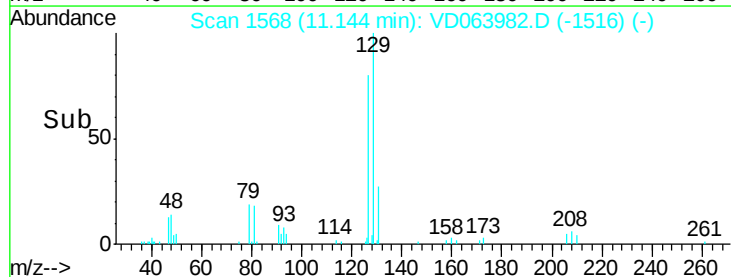
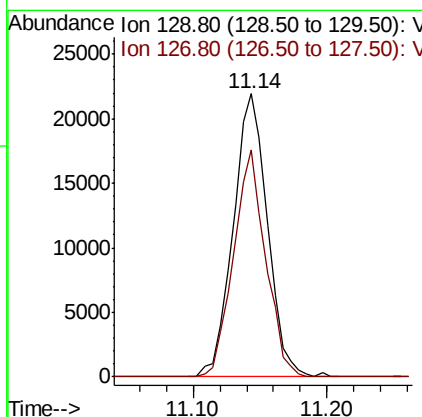
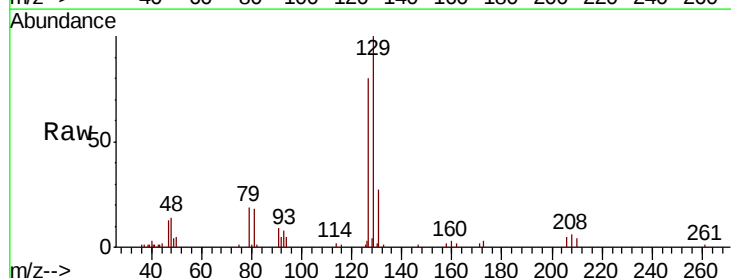
Manual Integrations
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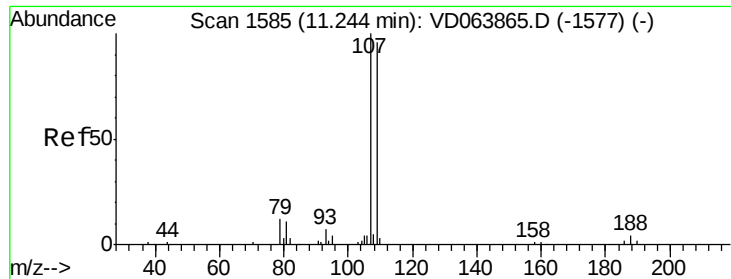
MMDadoda
10/18/2019 12:49:47 AM



#60
Dibromochloromethane
Concen: 19.612 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion: 129 Resp: 38937
Ion Ratio Lower Upper
129 100
127 75.4 39.9 119.6





#61

1,2-Dibromoethane

Concen: 19.037 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 107 Resp: 28145

Ion Ratio Lower Upper

107 100

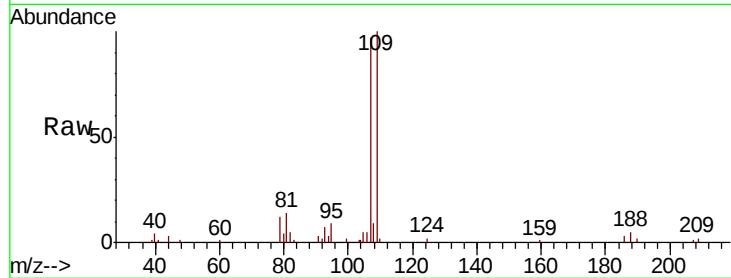
109 100.3 75.2 112.8

Manual Integrations

APPROVED

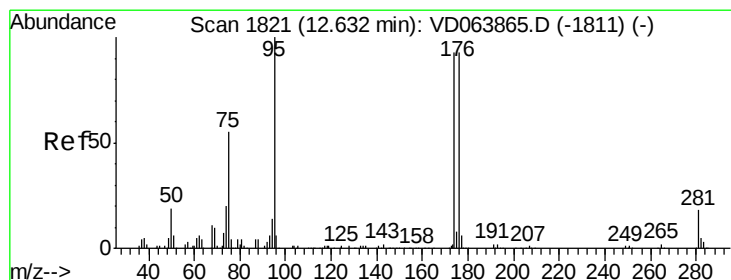
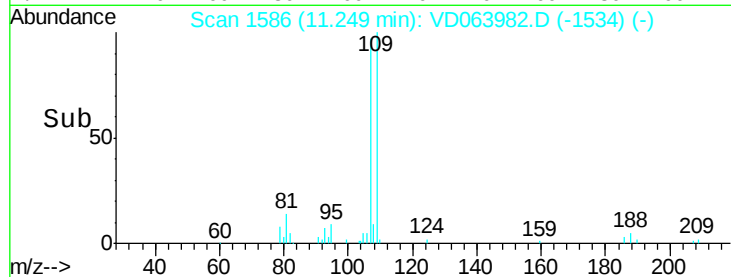
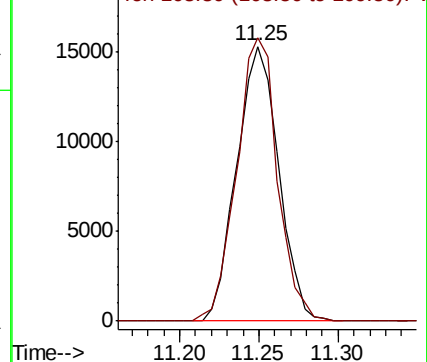
MMDadoda

10/18/2019 12:49:47 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.429 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

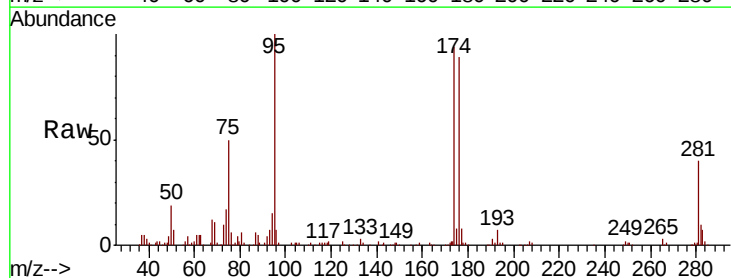
Tgt Ion: 95 Resp: 125992

Ion Ratio Lower Upper

95 100

174 95.0 0.0 186.4

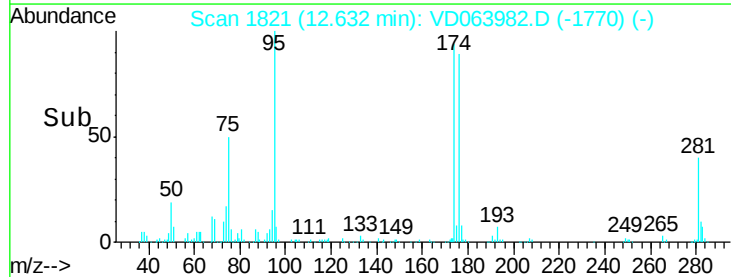
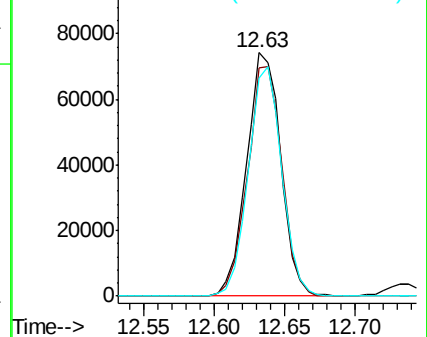
176 92.1 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





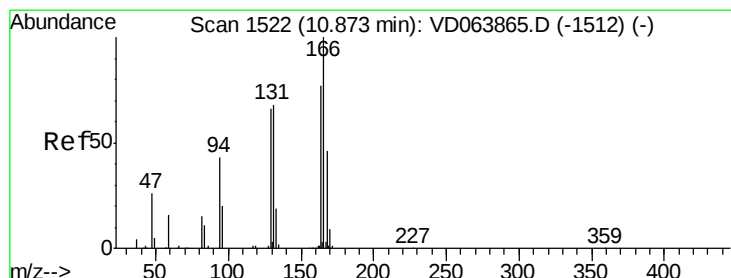
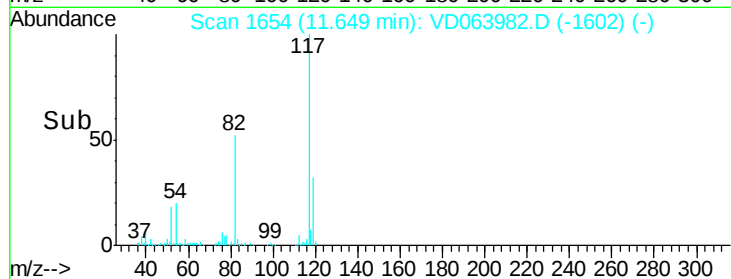
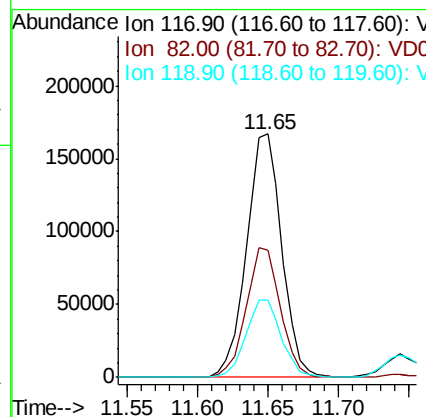
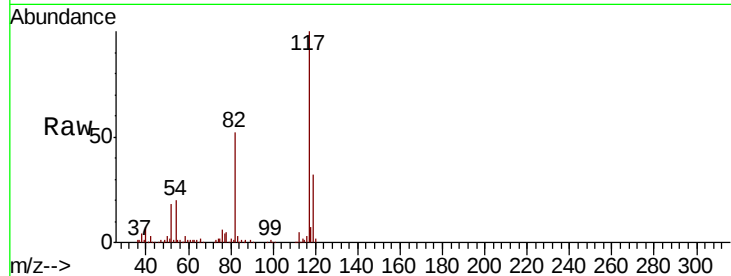
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.8	64.2
119	31.8	24.4	36.6

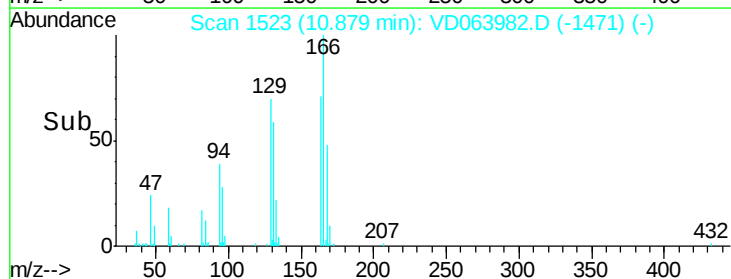
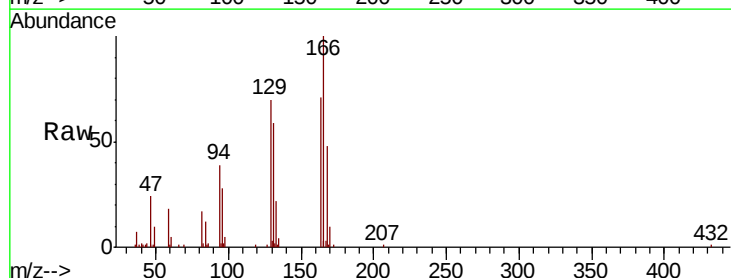
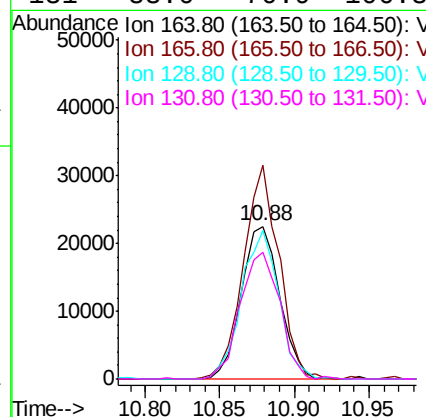
Manual Integrations
APPROVED

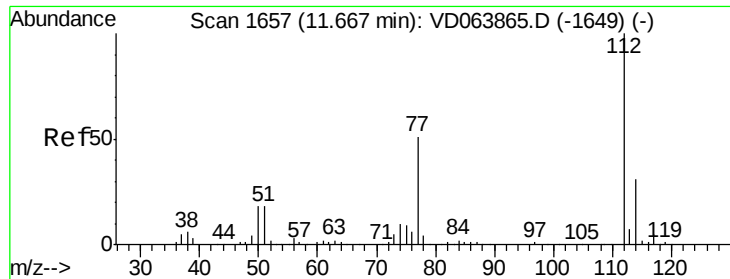
MMDadoda
10/18/2019 12:49:47 AM



#64
Tetrachloroethene
Concen: 20.249 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	140.0	103.8	155.6
129	97.3	68.9	103.3
131	83.0	70.9	106.3





#65

Chlorobenzene

Concen: 20.352 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion:112 Resp: 119107

Ion Ratio Lower Upper

112 100

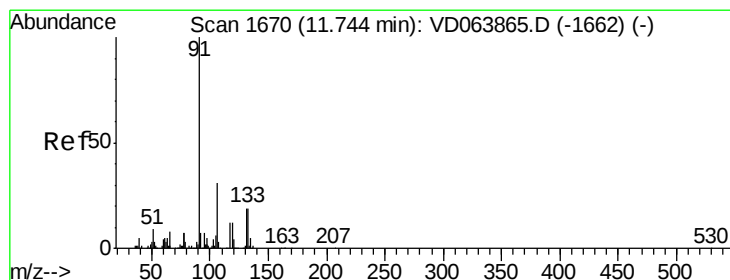
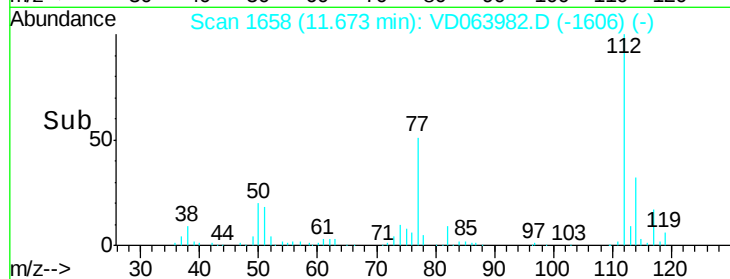
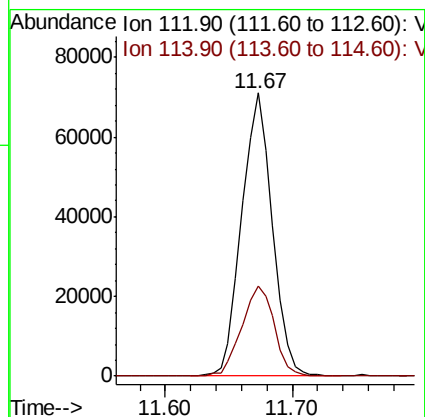
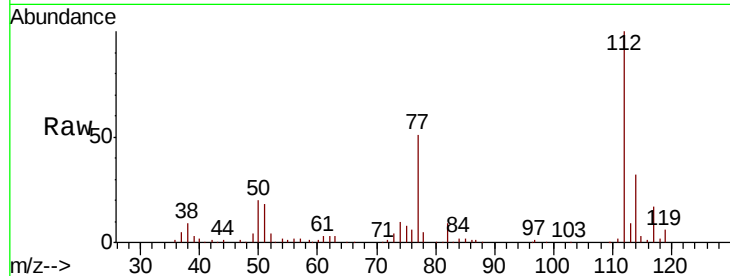
114 31.8 25.1 37.7

Manual Integrations

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MMDadoda

10/18/2019 12:49:47 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.088 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

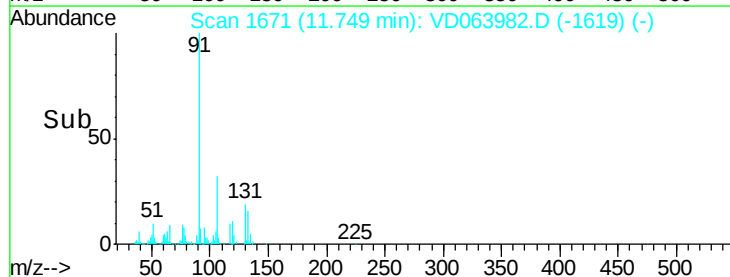
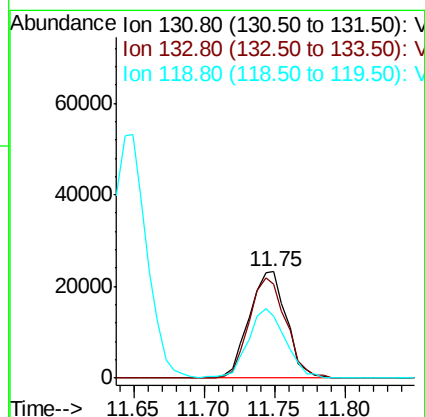
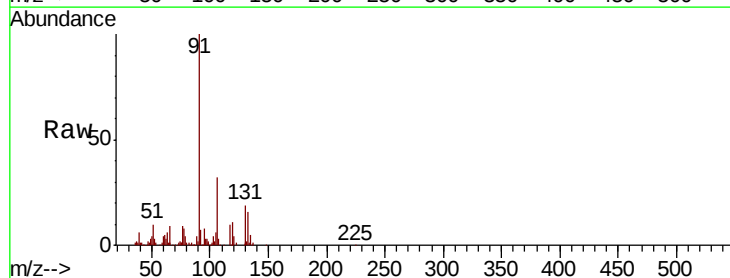
Tgt Ion:131 Resp: 43317

Ion Ratio Lower Upper

131 100

133 92.8 48.9 146.7

119 64.8 32.6 97.8





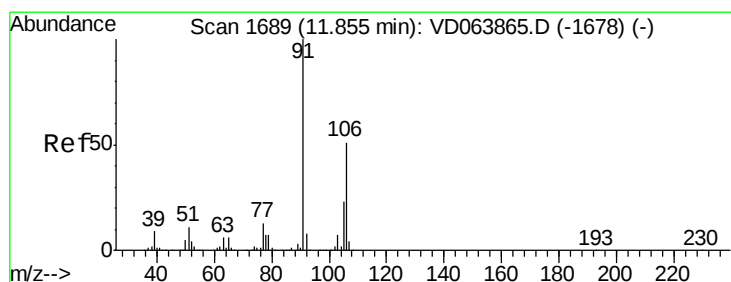
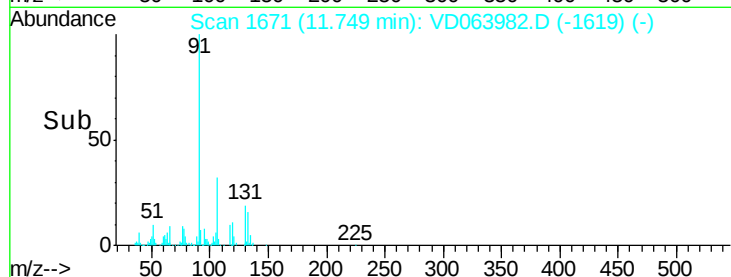
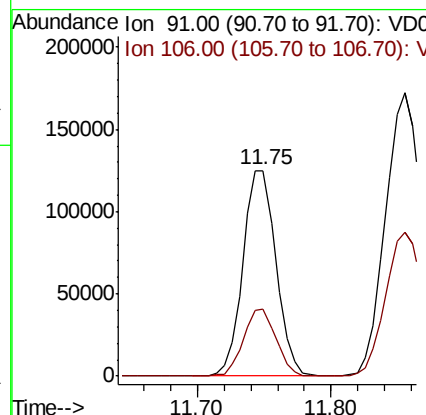
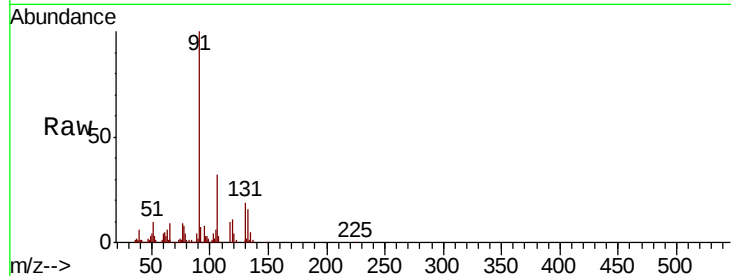
#67
Ethyl Benzene
Concen: 20.318 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	32.5	24.6	37.0

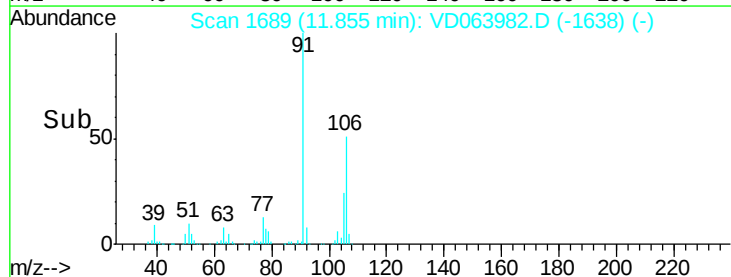
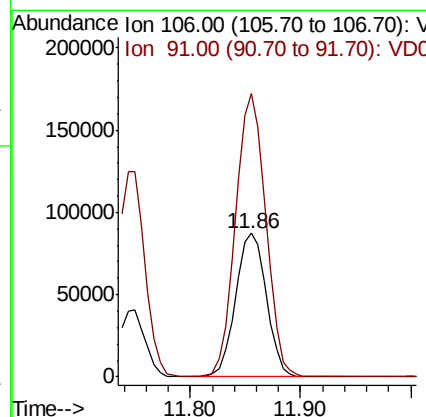
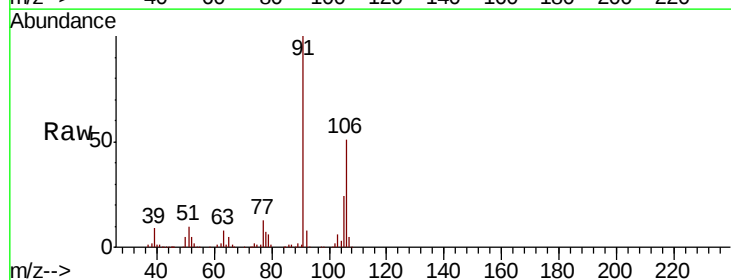
Manual Integrations
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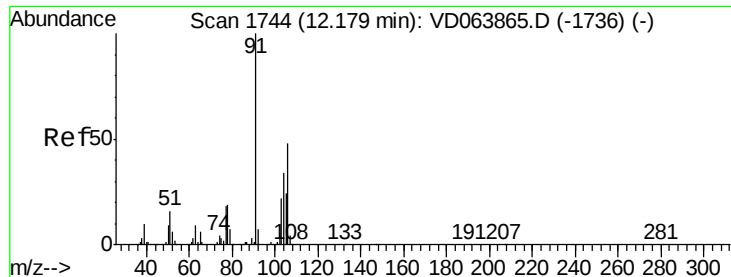
MMDadoda
10/18/2019 12:49:47 AM



#68
m/p-Xylenes
Concen: 42.112 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
106	100		
91	193.9	154.8	232.2





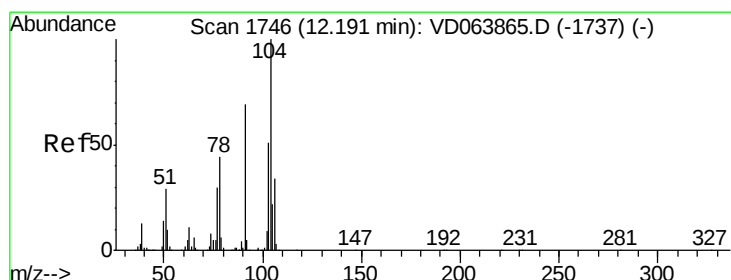
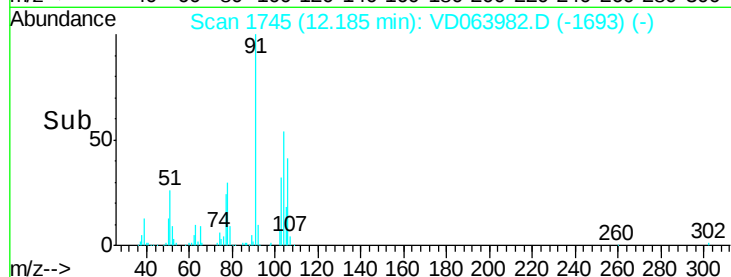
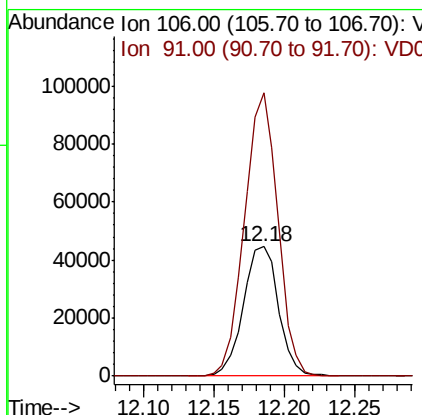
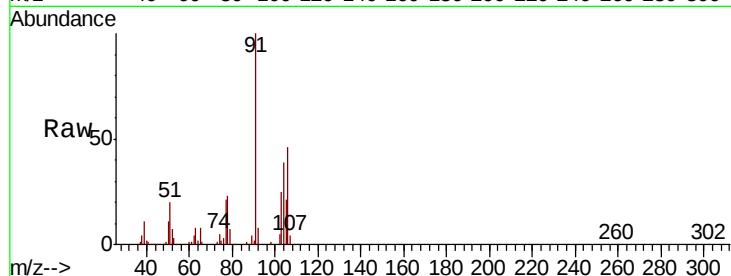
#69
o-Xylene
Concen: 20.029 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion:106 Resp: 78116
Ion Ratio Lower Upper
106 100
91 207.3 103.9 311.7

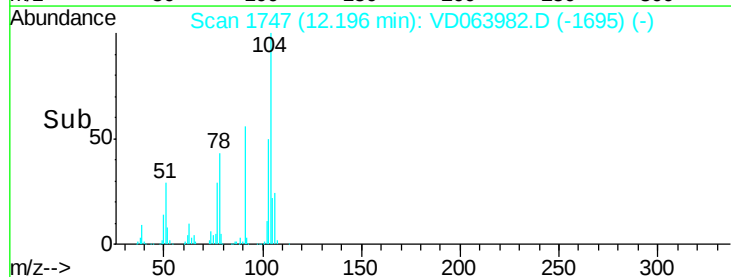
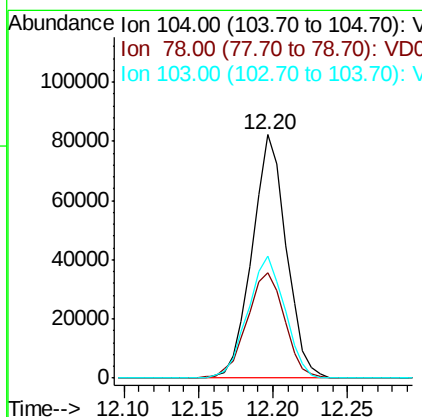
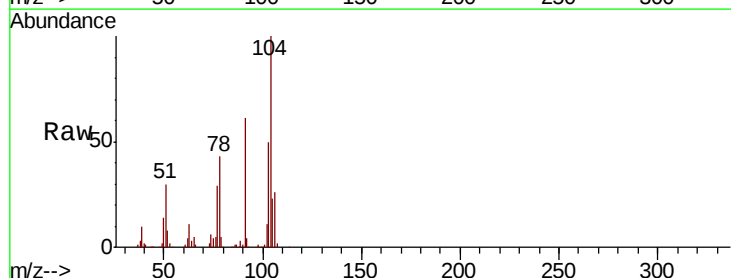
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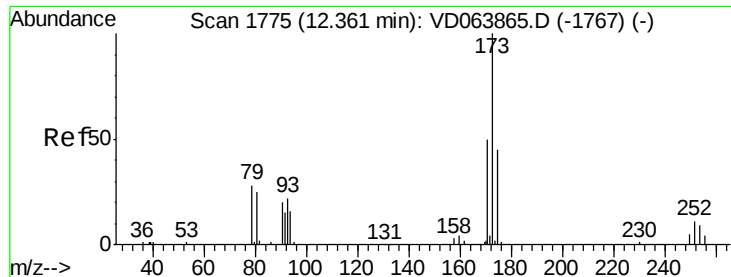
MMDadoda
10/18/2019 12:49:47 AM



#70
Styrene
Concen: 19.675 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion:104 Resp: 129905
Ion Ratio Lower Upper
104 100
78 47.9 37.0 55.4
103 54.5 44.2 66.4





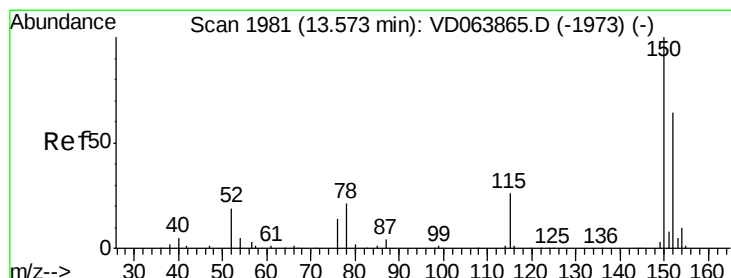
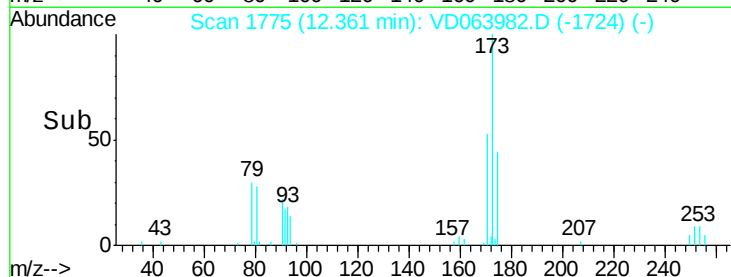
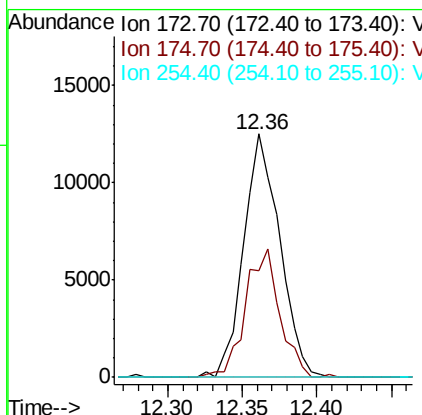
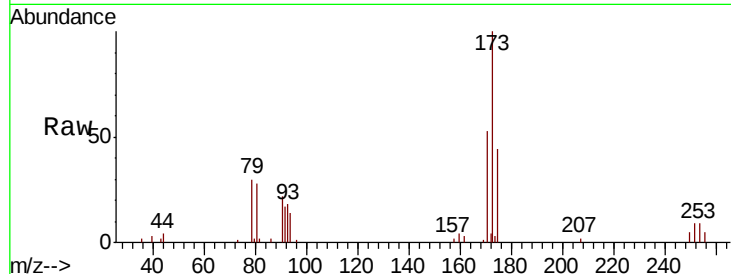
#71
Bromoform
Concen: 18.072 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.6	74.0
254	0.0	0.0	0.0

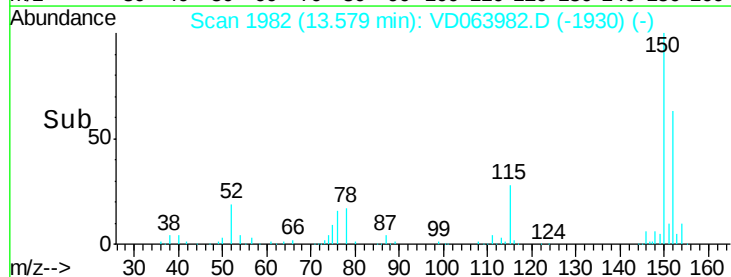
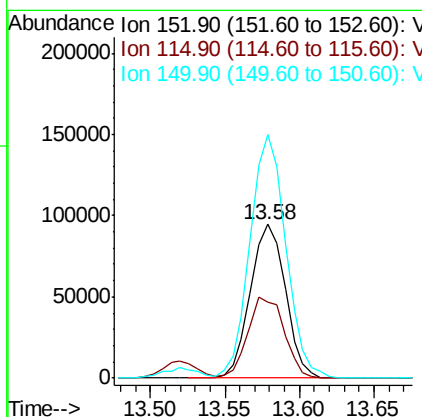
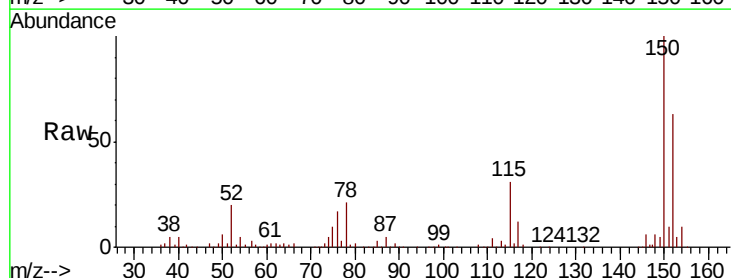
Manual Integrations
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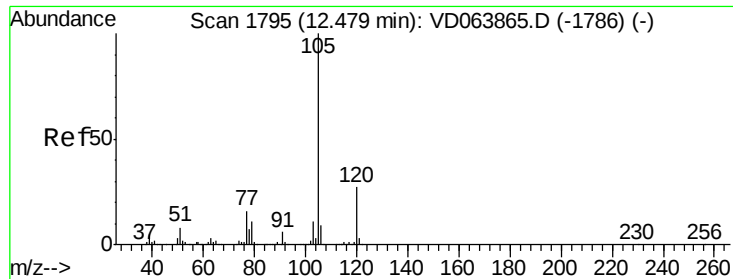
MMDadoda
10/18/2019 12:49:47 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	25.9	77.7
150	161.3	0.0	344.2





#73

Isopropylbenzene

Concen: 20.686 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 105 Resp: 214561

Ion Ratio Lower Upper

105 100

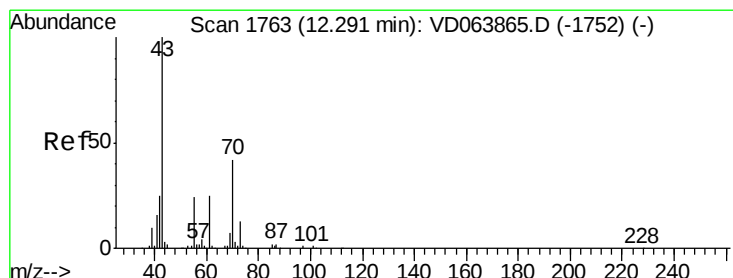
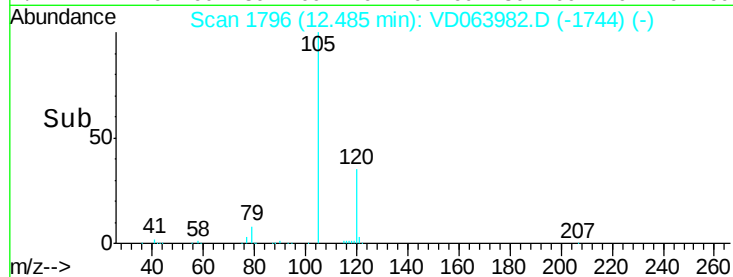
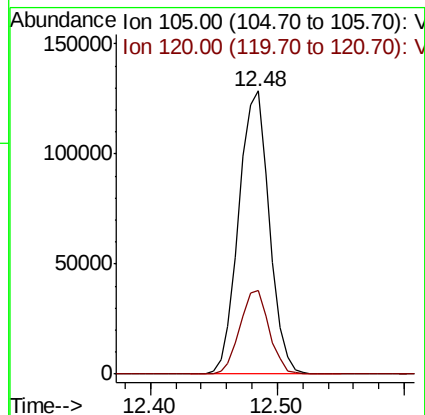
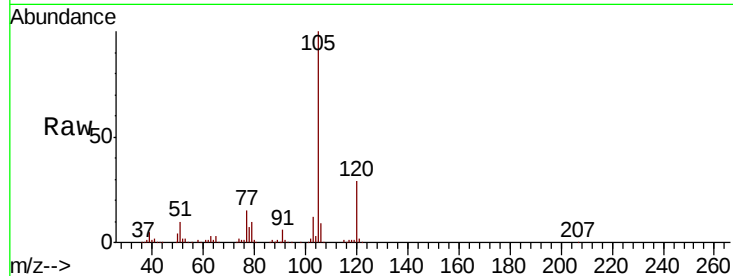
120 28.3 13.3 39.8

Manual Integrations

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MMDadoda

10/18/2019 12:49:47 AM



#74

N-ethyl acetate

Concen: 17.811 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion: 43 Resp: 39775

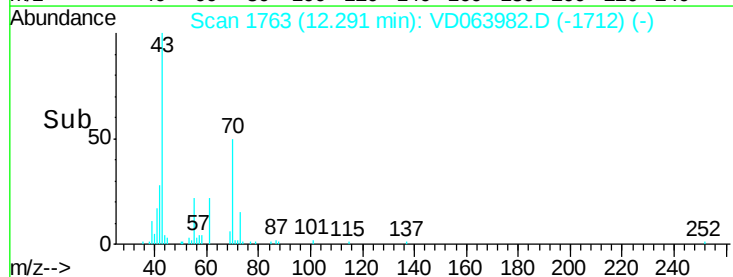
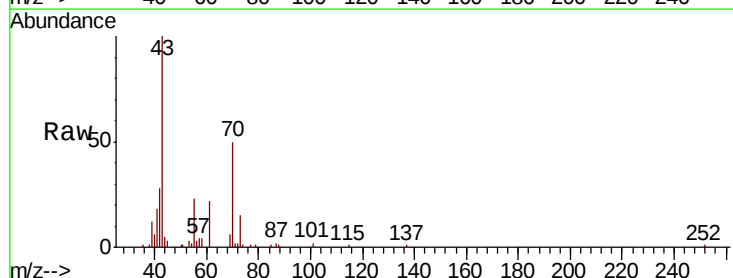
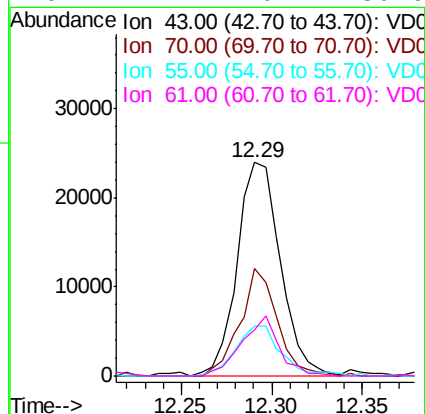
Ion Ratio Lower Upper

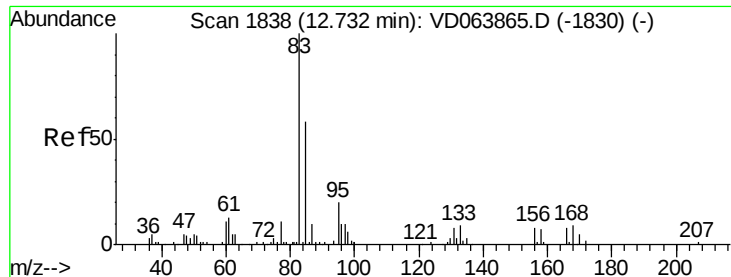
43 100

70 43.9 35.8 53.6

55 25.0 19.4 29.0

61 24.4 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 19.169 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion: 83 Resp: 34598

Ion Ratio Lower Upper

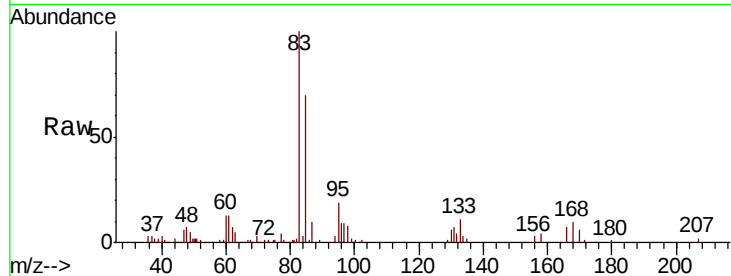
83 100

131 9.1 5.6 16.8

85 67.6 32.3 96.8

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC

25000

20000

15000

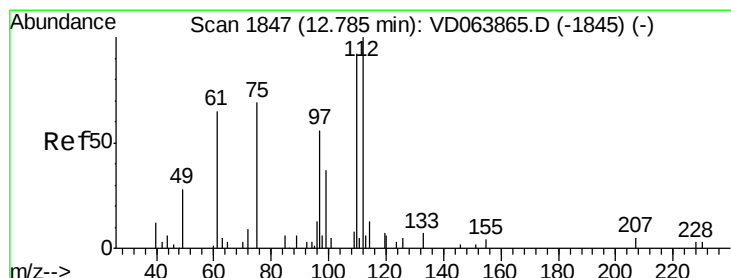
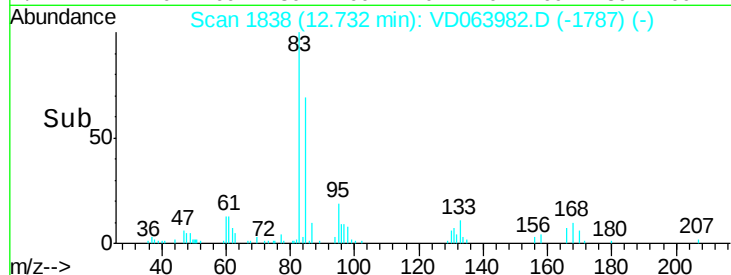
10000

5000

0

12.70 12.75 12.80

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.186 ug/l m

RT: 12.79 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VD063982.D

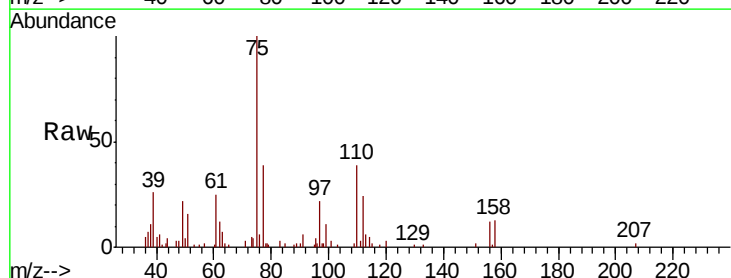
Acq: 16 Oct 2019 12:46

Tgt Ion: 75 Resp: 24994

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

50000

40000

30000

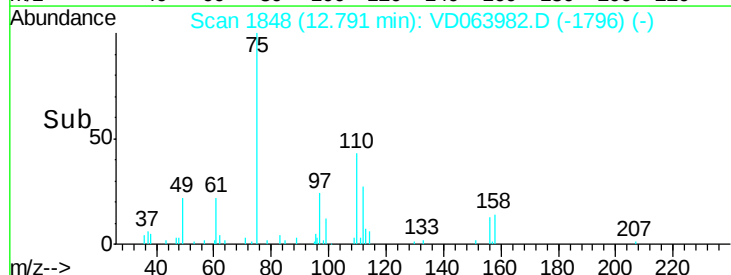
20000

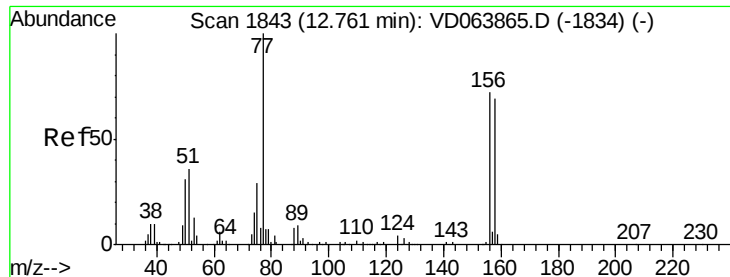
10000

0

12.75 12.80

Time-->





#77

Bromobenzene

Concen: 19.529 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion:156 Resp: 50466

Ion Ratio Lower Upper

156 100

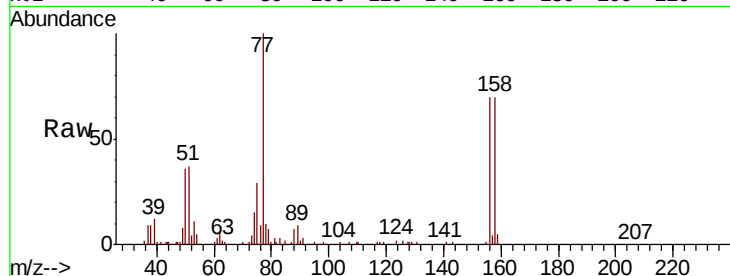
77 160.8 80.3 241.0

158 99.9 47.4 142.2

Manual Integrations
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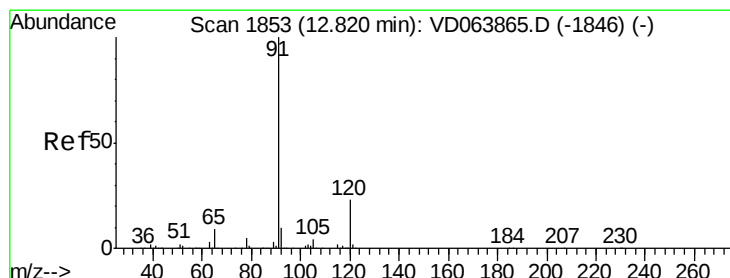
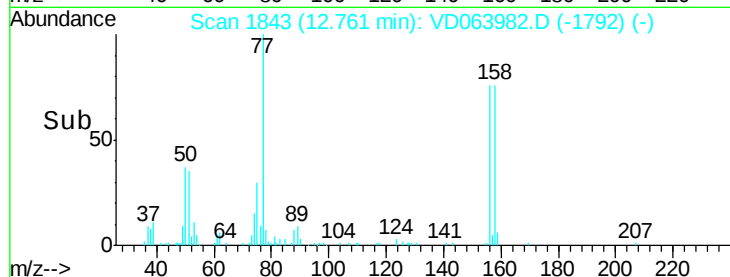
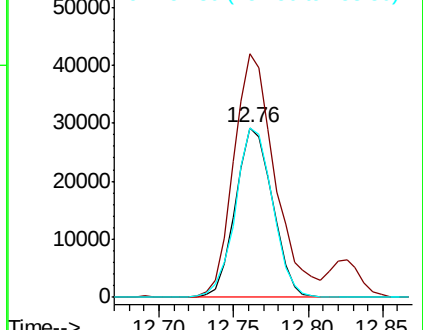
10/18/2019 12:49:47 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.391 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD063982.D

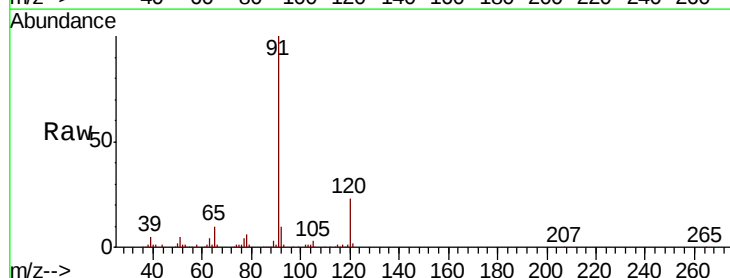
Acq: 16 Oct 2019 12:46

Tgt Ion: 91 Resp: 260433

Ion Ratio Lower Upper

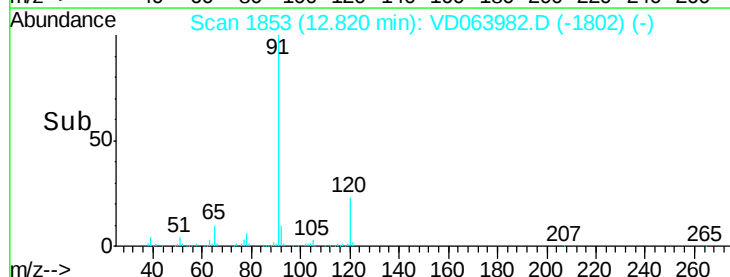
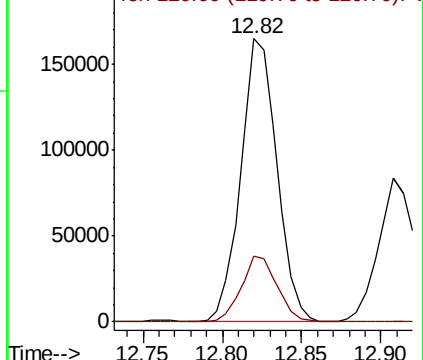
91 100

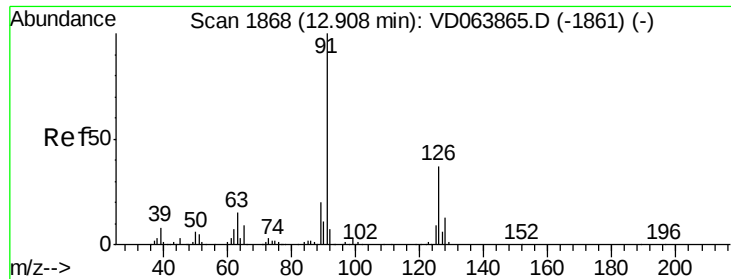
120 23.1 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





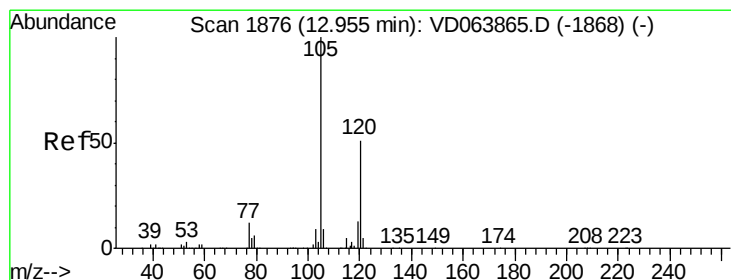
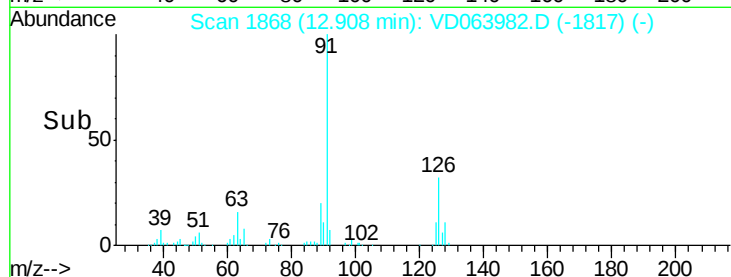
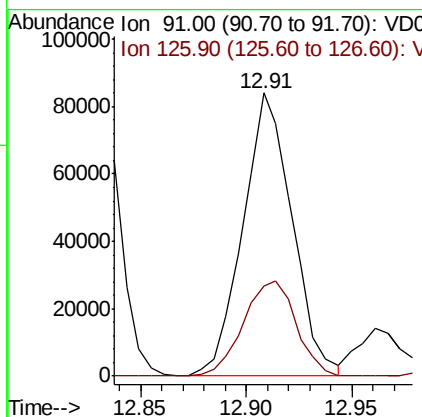
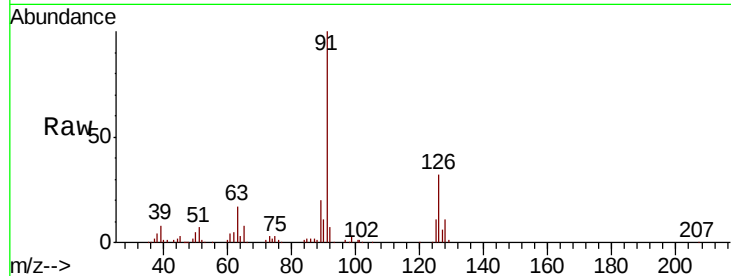
#79
2-Chlorotoluene
Concen: 20.226 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion: 91 Resp: 135782
Ion Ratio Lower Upper
91 100
126 36.3 18.4 55.2

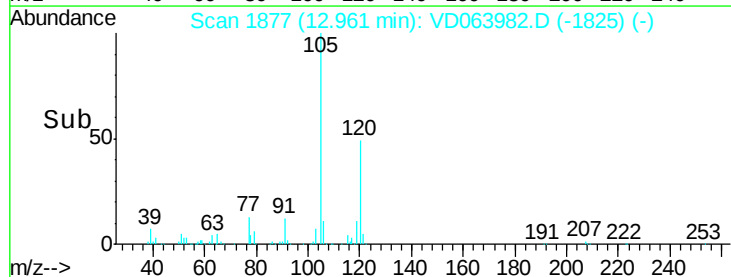
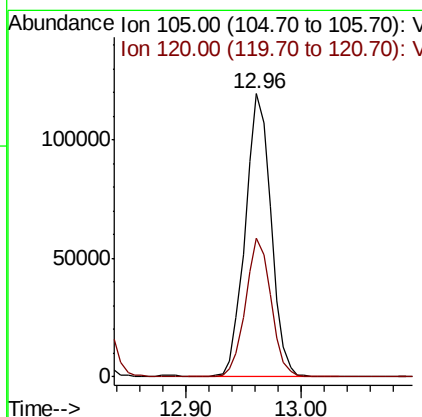
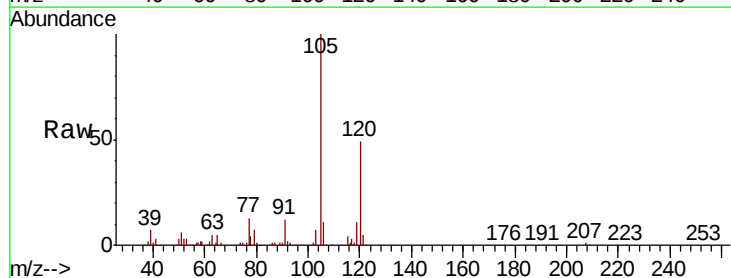
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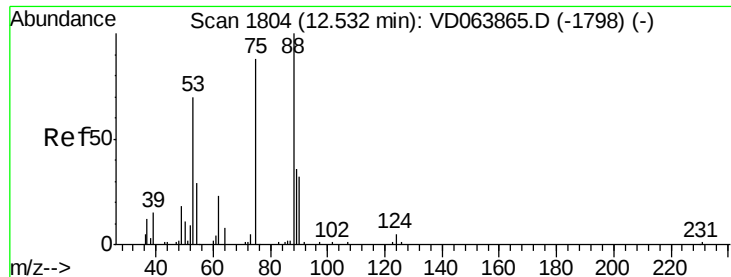
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 21.503 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion: 105 Resp: 186074
Ion Ratio Lower Upper
105 100
120 48.1 25.9 77.8





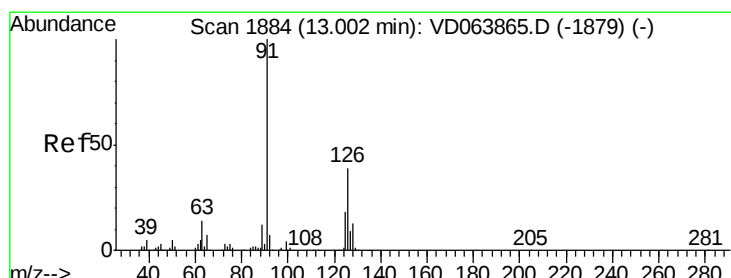
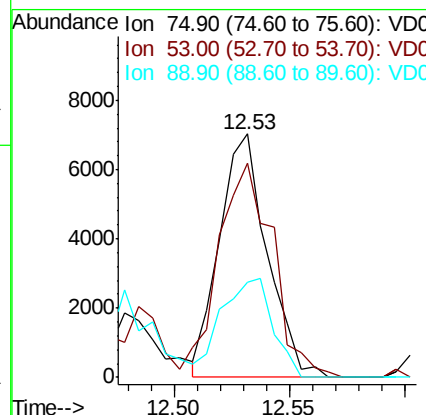
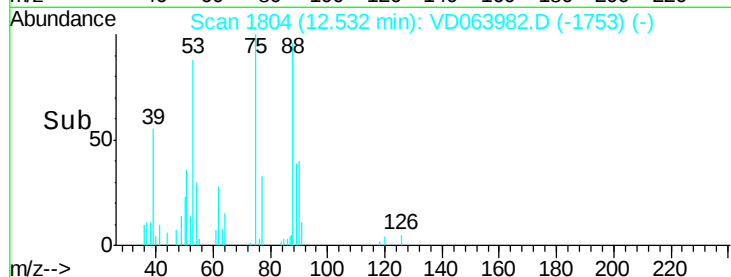
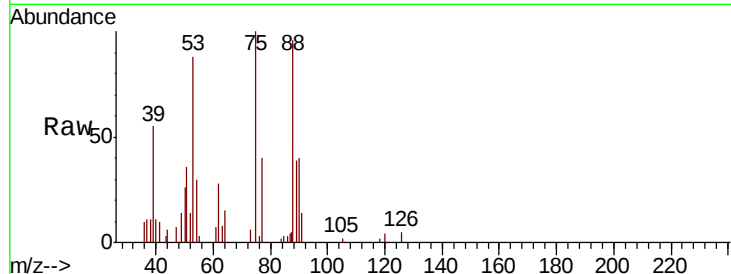
#81
trans-1,4-Dichloro-2-butene
Concen: 17.324 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.0	75.0	112.6
89	43.6	38.2	57.4

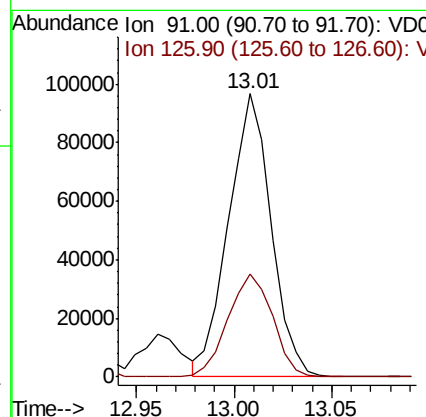
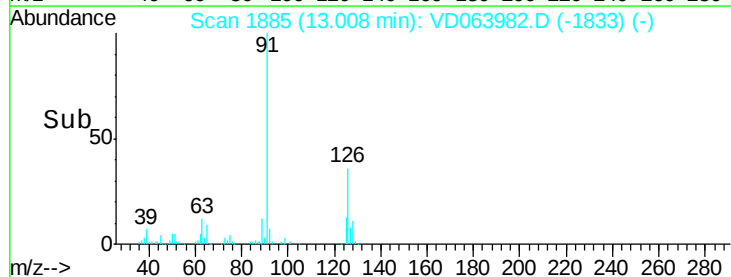
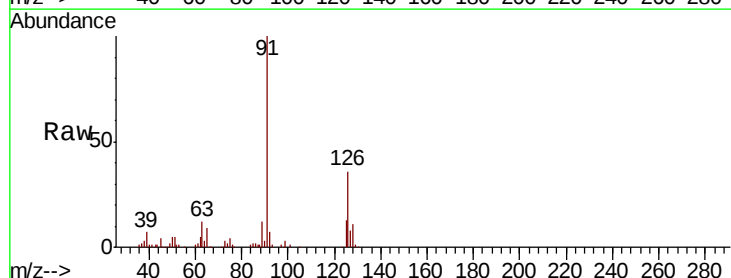
Manual Integrations
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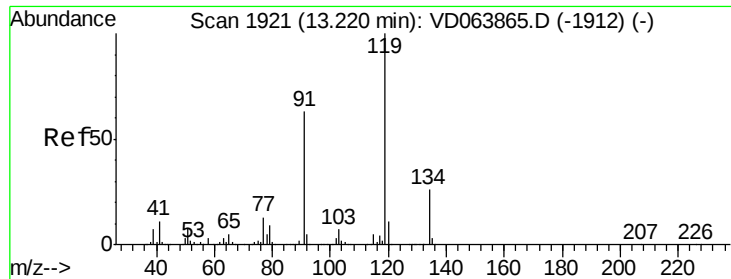
MMDadoda
10/18/2019 12:49:47 AM



#82
4-Chlorotoluene
Concen: 20.482 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.1	18.6	55.8





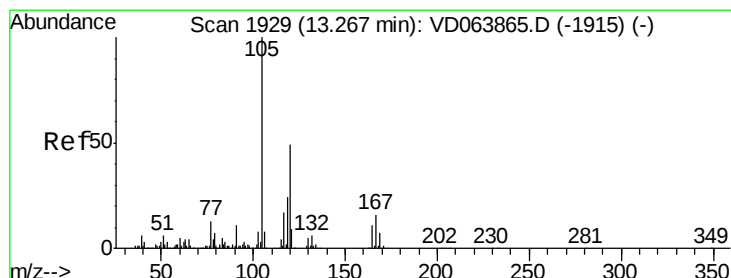
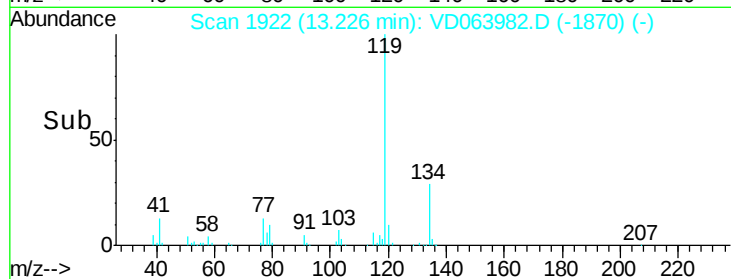
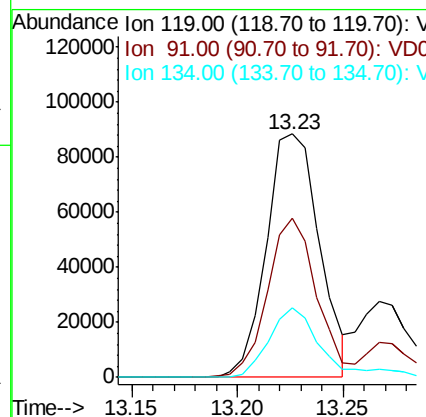
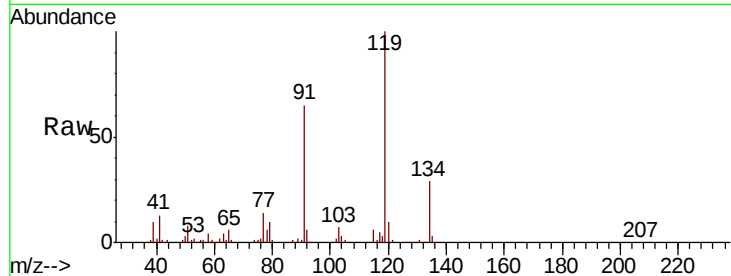
#83
tert-Butylbenzene
Concen: 20.164 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	155294		
91	60.7	30.0	90.0	
134	28.3	13.0	38.9	

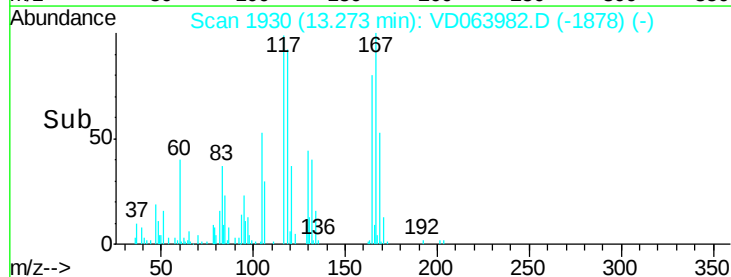
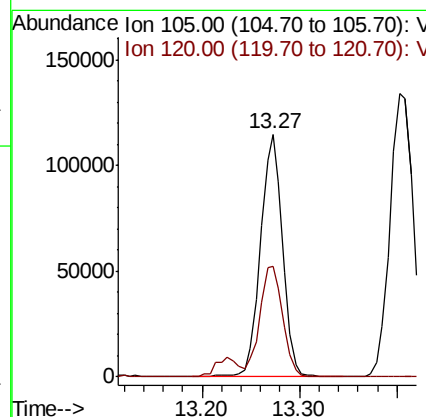
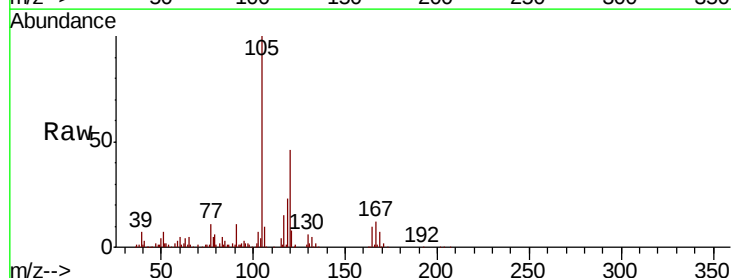
Manual Integrations
APPROVED

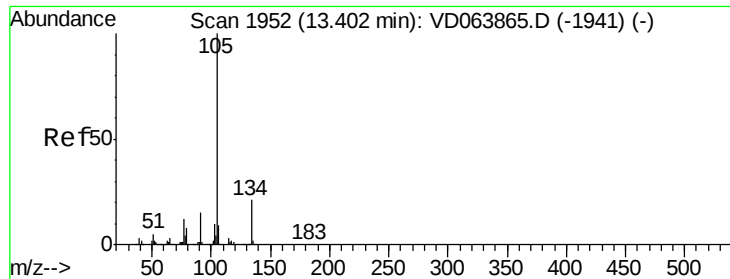
MMDadoda
10/18/2019 12:49:47 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.517 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	183038		
120	47.2	23.8	71.5	





#85

sec-Butylbenzene

Concen: 21.338 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1016SBS01

Tot Ion:105 Resp: 221926

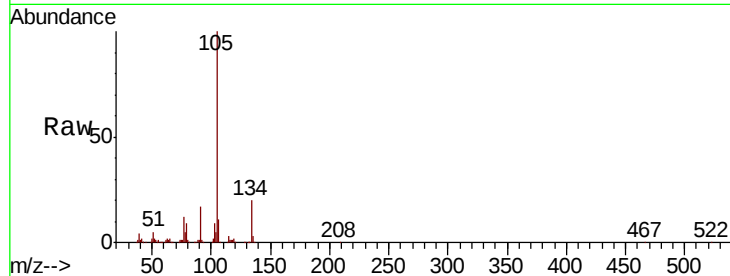
Ion Ratio Lower Upper

105 100

134 21.4 10.6 31.8

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.40

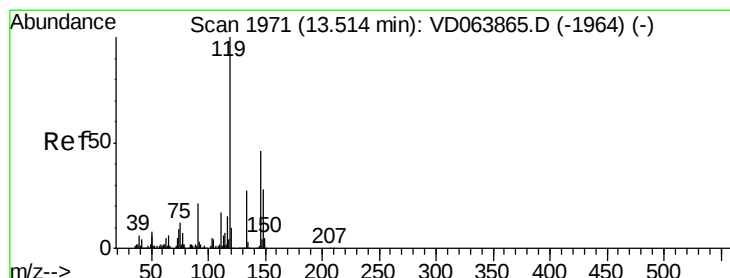
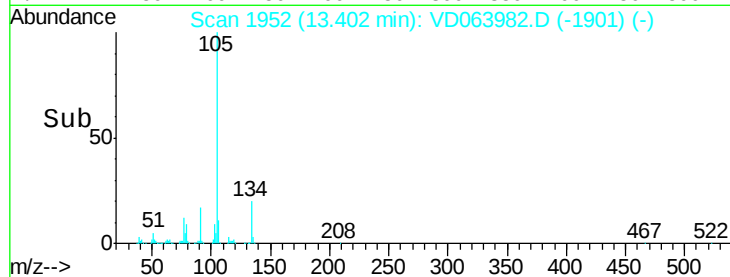
150000

100000

50000

0

Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 21.611 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

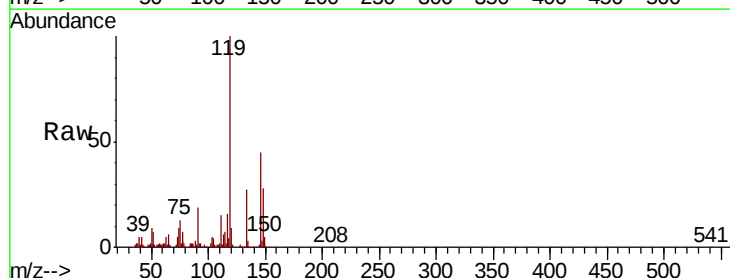
Tgt Ion:119 Resp: 212692

Ion Ratio Lower Upper

119 100

134 26.5 13.9 41.6

91 21.1 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.52

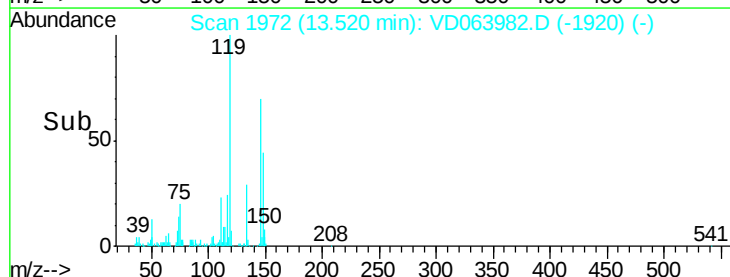
150000

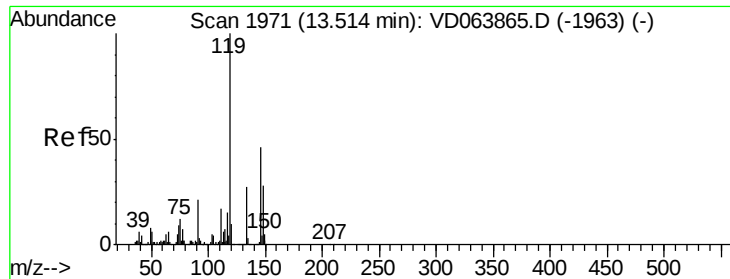
100000

50000

0

Time--> 13.50 13.52 13.54 13.56 13.58 13.60





#87

1,3-Dichlorobenzene

Concen: 20.182 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Instrument :

MSVOA_D

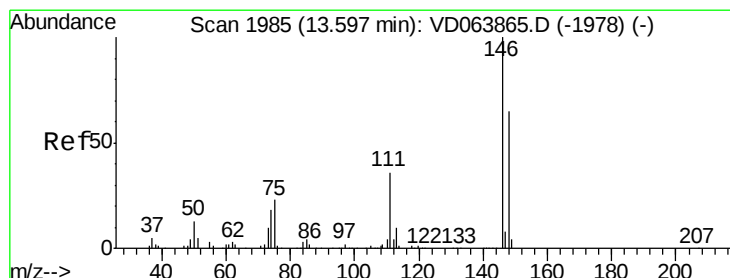
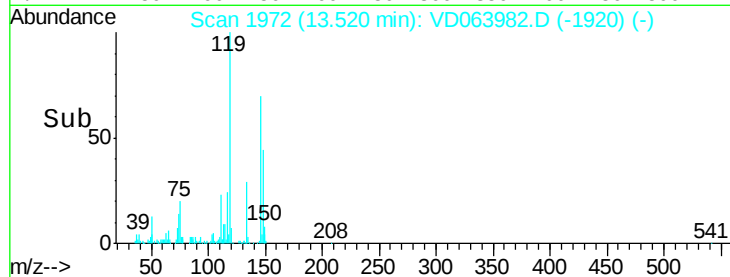
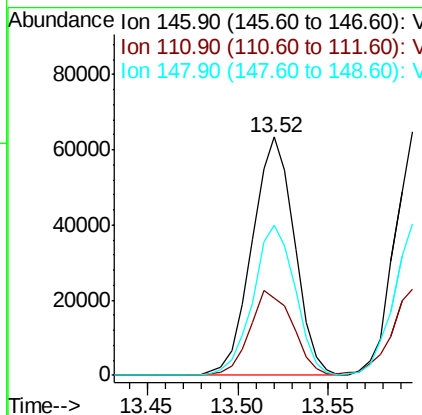
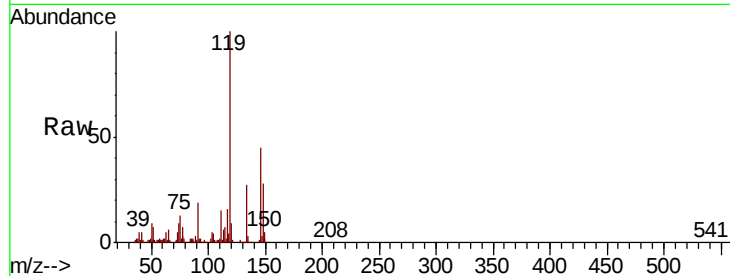
ClientSampleId :

VD1016SBS01

Tot Ion:	146	Resp:	103051
Ion Ratio	Lower	Upper	
146	100		
111	36.3	18.3	54.9
148	62.4	31.8	95.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.747 ug/l

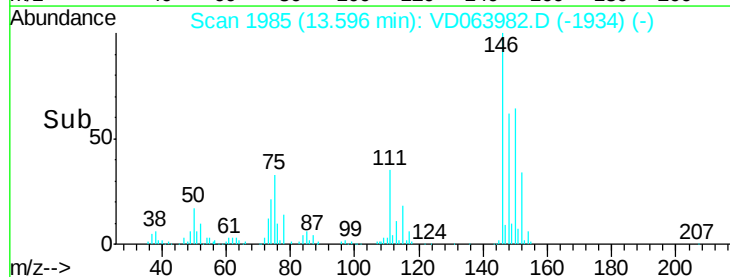
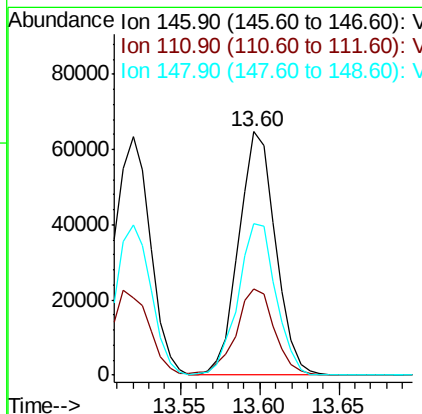
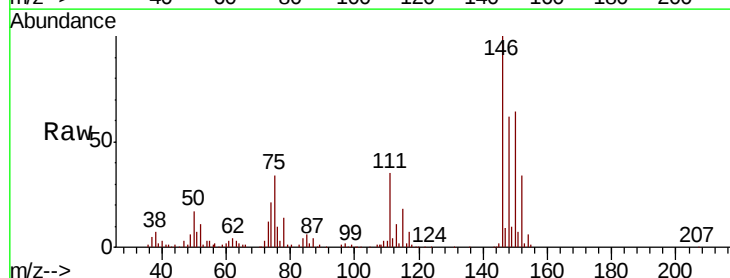
RT: 13.60 min Scan# 1985

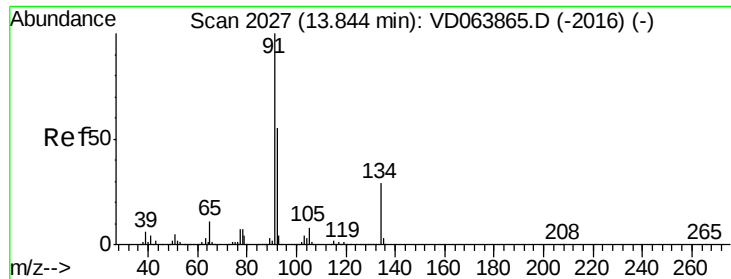
Delta R.T. -0.00 min

Lab File: VD063982.D

Acq: 16 Oct 2019 12:46

Tgt Ion:	146	Resp:	104513
Ion Ratio	Lower	Upper	
146	100		
111	36.9	18.6	56.0
148	64.0	32.6	98.0





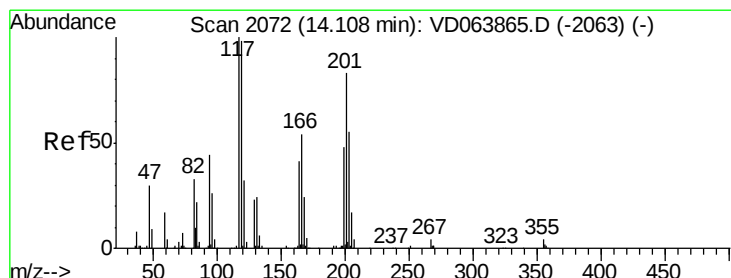
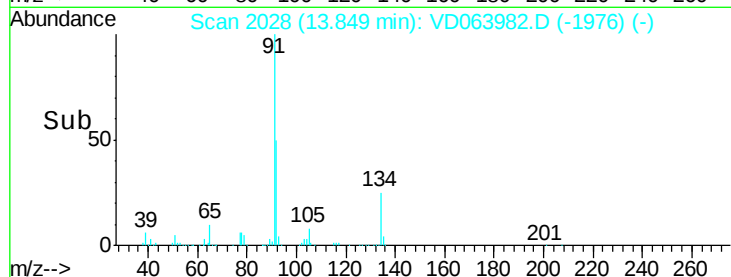
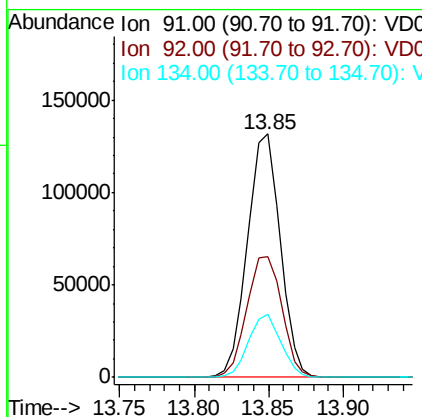
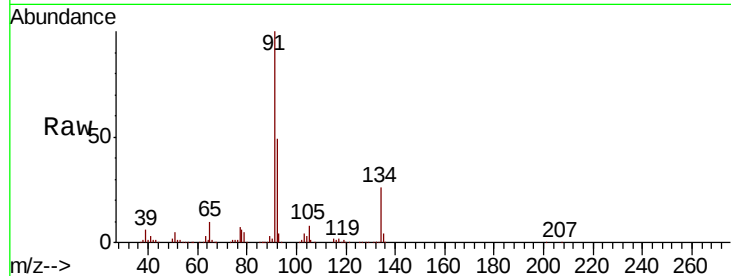
#89
n-Butylbenzene
Concen: 21.857 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.8	80.3
134	25.7	14.4	43.0

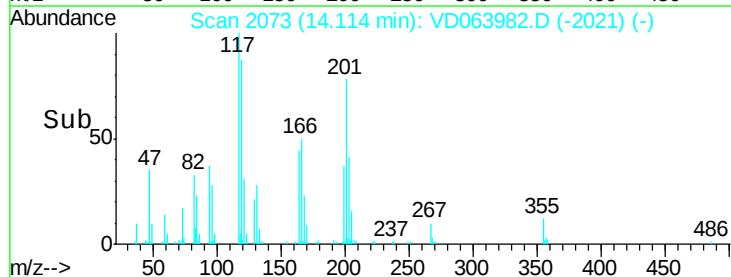
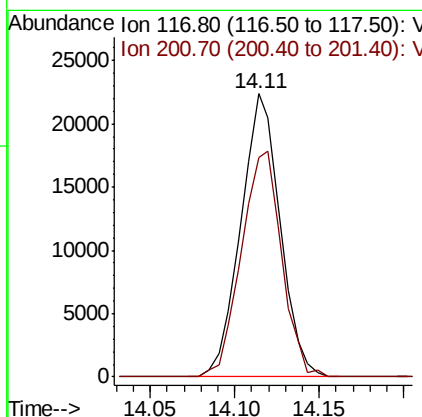
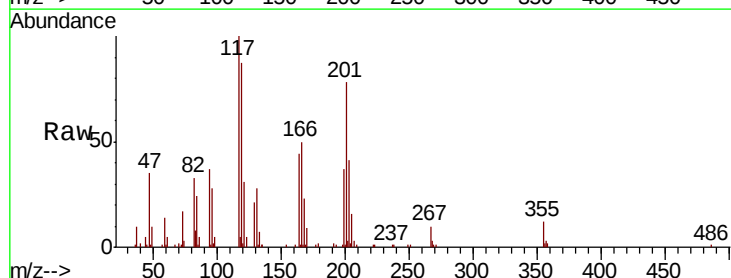
Manual Integrations
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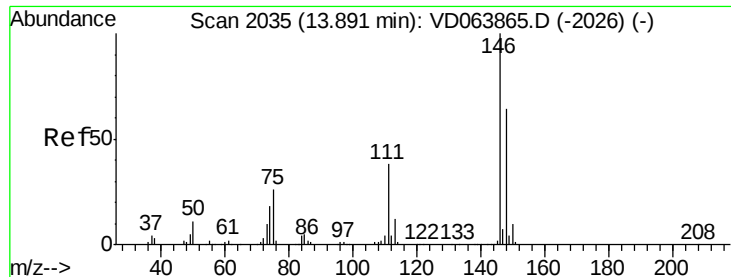
MMDadoda
10/18/2019 12:49:47 AM



#90
Hexachloroethane
Concen: 20.477 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.6	40.6	121.7





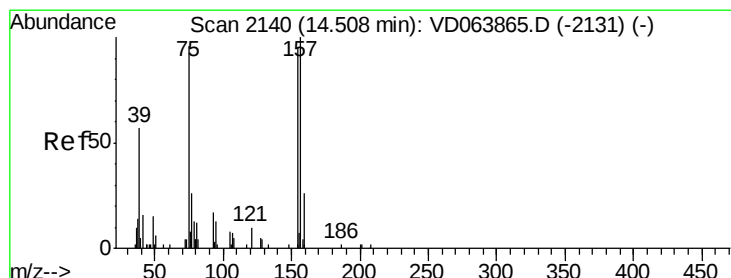
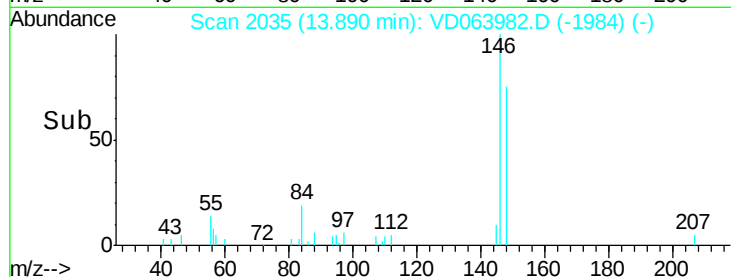
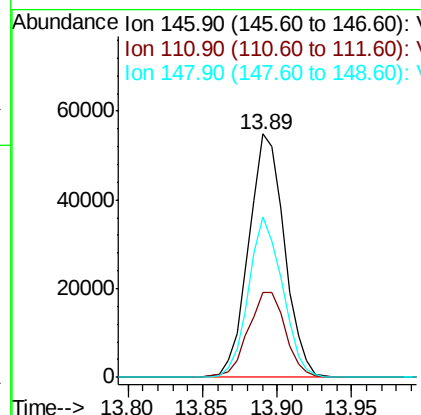
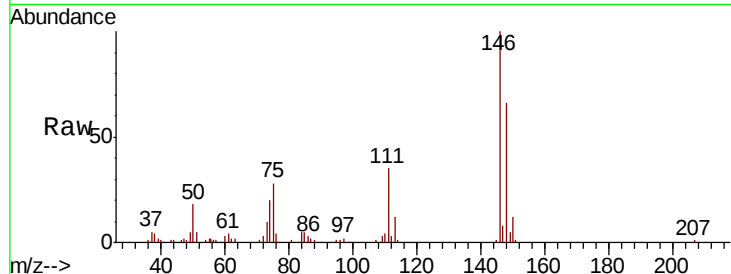
#91
 1,2-Dichlorobenzene
 Concen: 20.600 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1016SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.6	55.6
148	62.5	31.6	95.0

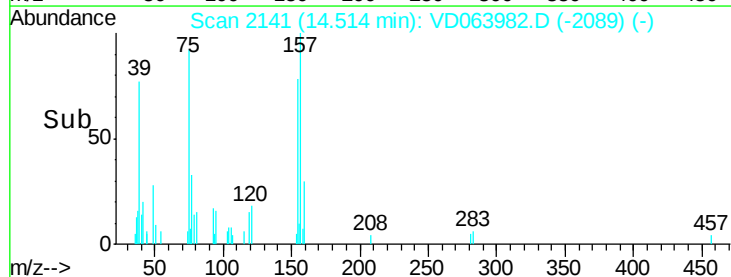
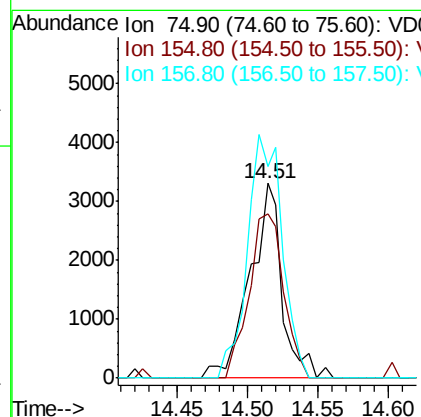
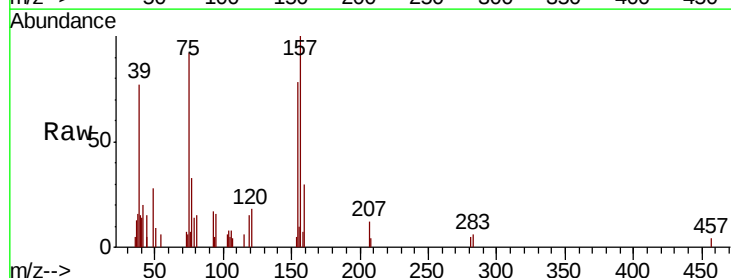
Manual Integrations
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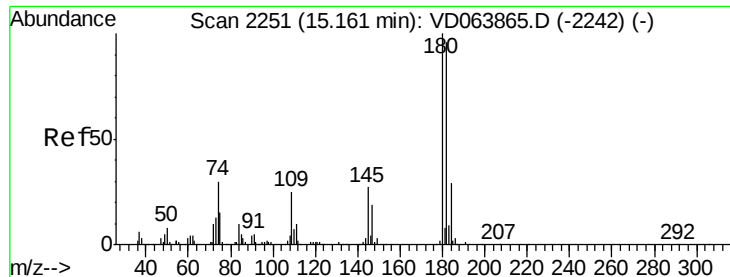
MMDadoda
 10/18/2019 12:49:47 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.303 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VD063982.D
 Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.6	43.9	131.6
157	134.8	56.0	167.9





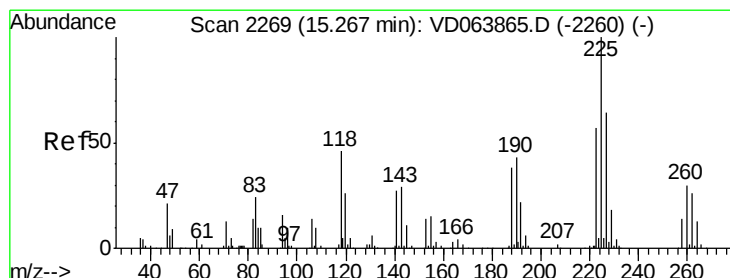
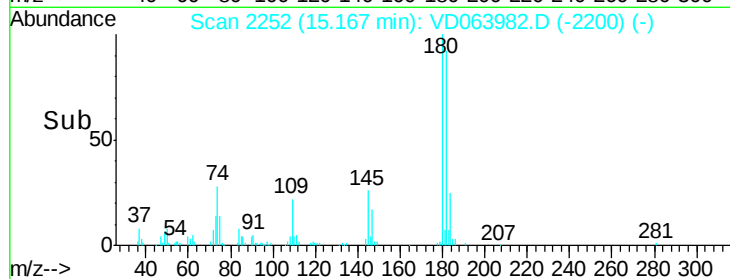
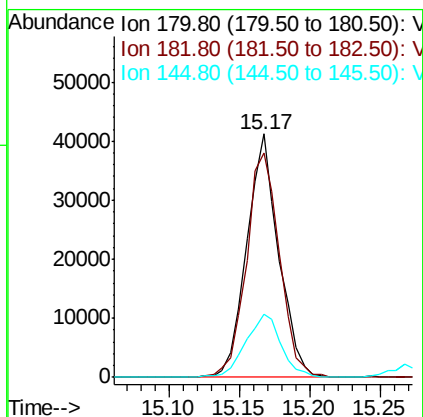
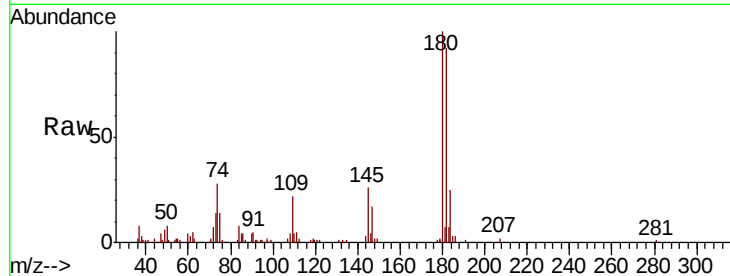
#93
1,2,4-Trichlorobenzene
Concen: 19.188 ug/l
RT: 15.17 min Scan# 2252
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.4	142.3
145	28.9	13.9	41.7

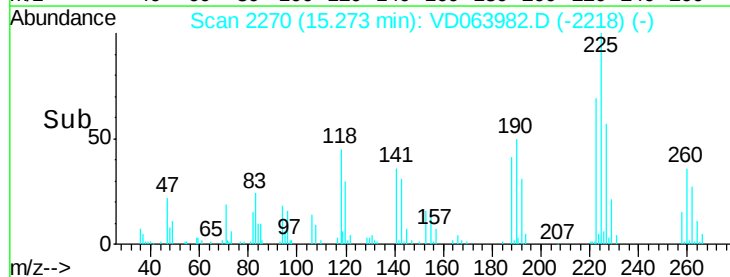
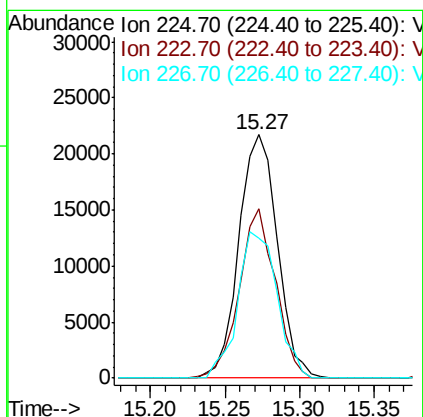
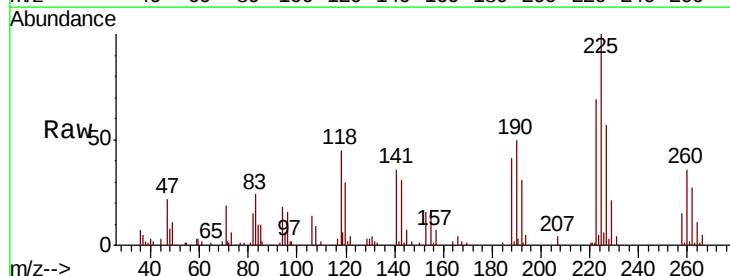
Manual Integrations
APPROVED

MMDadoda
10/18/2019 12:49:47 AM



#94
Hexachlorobutadiene
Concen: 20.725 ug/l
RT: 15.27 min Scan# 2270
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.4	29.5	88.6
227	61.6	30.8	92.4





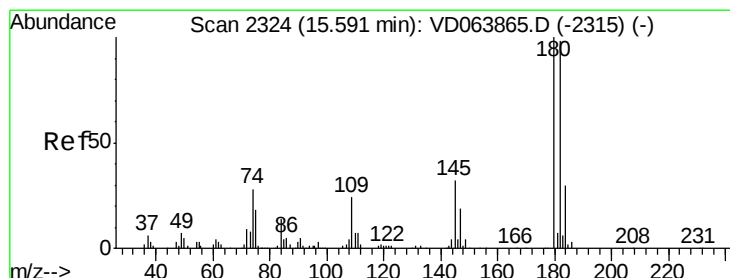
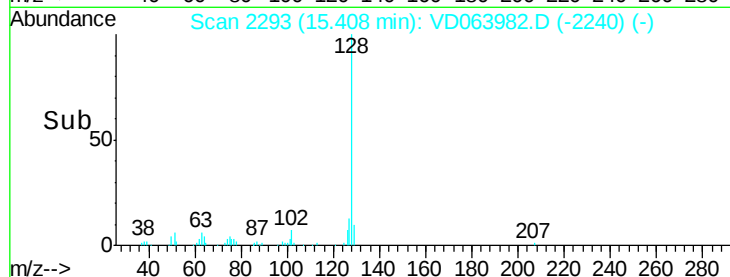
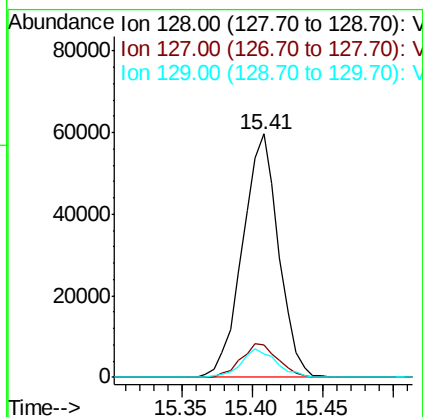
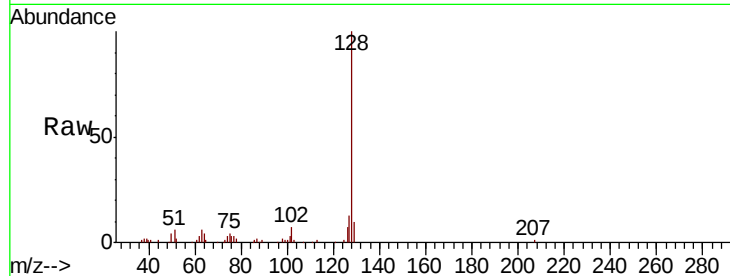
#95
Naphthalene
Concen: 18.698 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1016SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.6	16.0
129	11.3	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/18/2019 12:49:47 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.381 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. 0.01 min
Lab File: VD063982.D
Acq: 16 Oct 2019 12:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.0	47.0	141.0
145	31.0	15.3	45.9

