

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063948.D
 Acq On : 11 Oct 2019 20:26
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/15/2019 4:13:59 PM

Quant Time: Oct 12 03:23:46 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	156307	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	262951	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	265267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	147835	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	79921	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
35) Dibromofluoromethane	7.92	113	82496	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
50) Toluene-d8	10.34	98	335510	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.63	95	113194	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	50280	45.359	ug/l	96
3) Chloromethane	2.21	50	173669	58.769	ug/l	96
4) Vinyl Chloride	2.34	62	185612	51.808	ug/l	98
5) Bromomethane	2.77	94	123147	53.466	ug/l	97
6) Chloroethane	2.92	64	127124	53.654	ug/l	97
7) Trichlorofluoromethane	3.27	101	255307	53.898	ug/l	96
8) Diethyl Ether	3.70	74	39455	51.894	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.09	101	62966	48.022	ug/l	93
10) Methyl Iodide	4.29	142	89267	49.408	ug/l	98
11) Tert butyl alcohol	5.24	59	26038	246.168	ug/l #	87
12) 1,1-Dichloroethene	4.06	96	60788	46.404	ug/l	97
13) Acrolein	3.93	56	17997	132.414	ug/l	96
14) Allyl chloride	4.71	41	112387	51.603	ug/l	97
15) Acrylonitrile	5.43	53	101359	302.382	ug/l	96
16) Acetone	4.16	43	85651	216.182	ug/l	92
17) Carbon Disulfide	4.40	76	221851	46.589	ug/l	96
18) Methyl Acetate	4.72	43	50210	64.794	ug/l	95
19) Methyl tert-butyl Ether	5.49	73	183210	54.009	ug/l	99
20) Methylene Chloride	4.97	84	95448	54.569	ug/l	94
21) trans-1,2-Dichloroethene	5.47	96	84918	52.072	ug/l	99
22) Diisopropyl ether	6.37	45	249361	56.061	ug/l	97
23) Vinyl Acetate	6.31	43	741223	280.122	ug/l	99
24) 1,1-Dichloroethane	6.26	63	146163	53.348	ug/l	98
25) 2-Butanone	7.22	43	130163	277.215	ug/l	95
26) 2,2-Dichloropropane	7.21	77	115960	46.788	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	102307	55.426	ug/l	97
28) Bromochloromethane	7.56	49	65682	62.570	ug/l	98
29) Tetrahydrofuran	7.57	42	80478	293.650	ug/l	96
30) Chloroform	7.71	83	160663	53.991	ug/l	91
31) Cyclohexane	7.98	56	125508	55.876	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	136312	53.401	ug/l	99
36) 1,1-Dichloropropene	8.11	75	121207	50.414	ug/l	98
37) Ethyl Acetate	7.30	43	52735	55.109	ug/l	98
38) Carbon Tetrachloride	8.10	117	124149	51.099	ug/l #	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063948.D
 Acq On : 11 Oct 2019 20:26
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/15/2019 4:13:59 PM

Quant Time: Oct 12 03:23:46 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)
39) Methylcyclohexane	9.36	83	146885	49.688	ug/l #	87
40) Benzene	8.36	78	360218	52.283	ug/l	100
41) Methacrylonitrile	7.53	41	29406	52.755	ug/l	88
42) 1,2-Dichloroethane	8.43	62	102959	51.661	ug/l	99
43) Isopropyl Acetate	8.46	43	102710	50.941	ug/l	99
44) Trichloroethene	9.11	130	96884	48.765	ug/l	89
45) 1,2-Dichloropropane	9.39	63	89709	53.196	ug/l	97
46) Dibromomethane	9.48	93	52750	54.924	ug/l	98
47) Bromodichloromethane	9.67	83	128938	52.144	ug/l	99
48) Methyl methacrylate	9.46	41	48582	50.289	ug/l	97
49) 1,4-Dioxane	9.47	88	15029	1146.411	ug/l	94
51) 4-Methyl-2-Pentanone	10.23	43	286596	274.076	ug/l	98
52) Toluene	10.40	92	249530	52.758	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	126905	52.594	ug/l	95
54) cis-1,3-Dichloropropene	10.09	75	144427	51.999	ug/l	94
55) 1,1,2-Trichloroethane	10.80	97	74653	55.051	ug/l	98
56) Ethyl methacrylate	10.66	69	92594	53.920	ug/l	96
57) 1,3-Dichloropropane	10.95	76	125073	53.907	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	219251	297.030	ug/l	100
59) 2-Hexanone	10.99	43	202368	267.535	ug/l	99
60) Dibromochloromethane	11.14	129	96063	54.413	ug/l	100
61) 1,2-Dibromoethane	11.25	107	76506	58.195	ug/l	100
64) Tetrachloroethene	10.88	164	94244	52.042	ug/l	97
65) Chlorobenzene	11.67	112	285610	53.613	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	101631	51.774	ug/l	98
67) Ethyl Benzene	11.74	91	502061	52.265	ug/l	98
68) m/p-Xylenes	11.86	106	398717	107.536	ug/l	98
69) o-Xylene	12.18	106	185565	52.267	ug/l	99
70) Styrene	12.20	104	332736	55.362	ug/l	97
71) Bromoform	12.36	173	61171	58.066	ug/l #	99
73) Isopropylbenzene	12.48	105	493024	49.609	ug/l	99
74) N-amyl acetate	12.29	43	103852	48.535	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	89660	51.845	ug/l	100
76) 1,2,3-Trichloropropane	12.78	75	58790m	59.374	ug/l	
77) Bromobenzene	12.76	156	129582	52.335	ug/l	97
78) n-propylbenzene	12.82	91	592365	50.780	ug/l	99
79) 2-Chlorotoluene	12.91	91	325730	50.640	ug/l	100
80) 1,3,5-Trimethylbenzene	12.96	105	416025	50.177	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	27122	48.472	ug/l	98
82) 4-Chlorotoluene	13.01	91	337343	49.439	ug/l	100
83) tert-Butylbenzene	13.23	119	366259	49.635	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	437255	51.155	ug/l	98
85) sec-Butylbenzene	13.40	105	501909	50.367	ug/l	99
86) p-Isopropyltoluene	13.51	119	489413	51.902	ug/l	98
87) 1,3-Dichlorobenzene	13.52	146	251203	51.346	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	249868	51.770	ug/l	99
89) n-Butylbenzene	13.84	91	439064	50.022	ug/l	98
90) Hexachloroethane	14.11	117	88091	51.941	ug/l	99
91) 1,2-Dichlorobenzene	13.89	146	228863	54.282	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	14328	53.496	ug/l	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
Data File : VD063948.D
Acq On : 11 Oct 2019 20:26
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

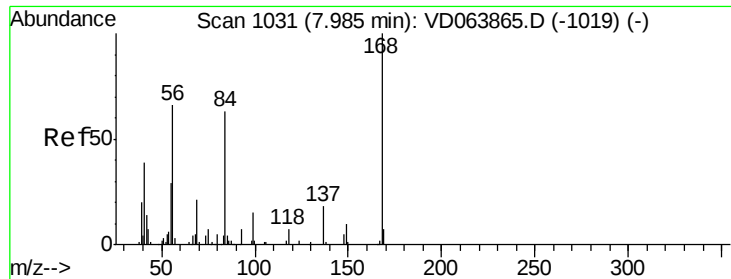
Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM

Quant Time: Oct 12 03:23:46 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)
93) 1,2,4-Trichlorobenzene	15.17	180	160022	49.189	ug/l	99
94) Hexachlorobutadiene	15.27	225	88258	49.162	ug/l	96
95) Naphthalene	15.40	128	298739	54.635	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	142279	50.690	ug/l	97

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



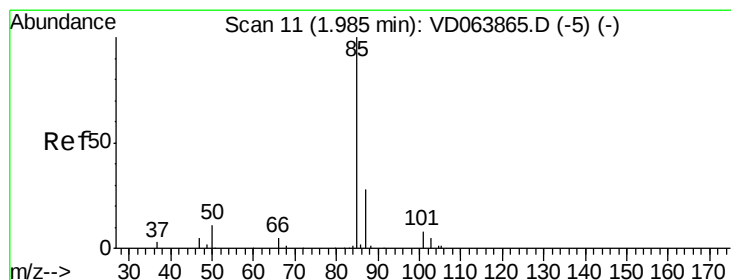
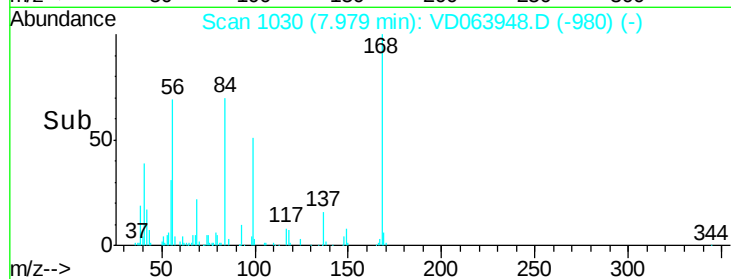
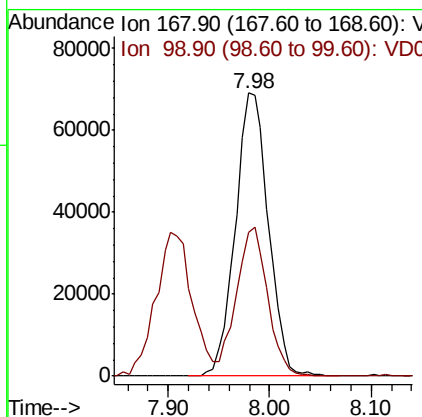
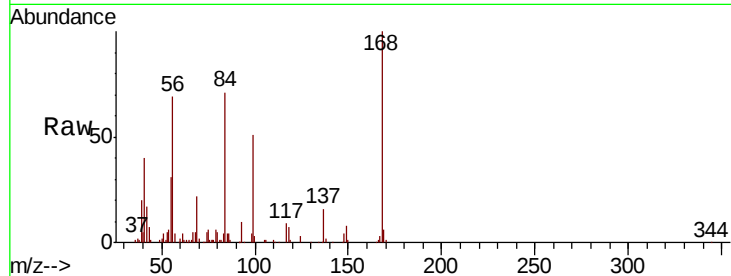
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:168 Resp: 156307
Ion Ratio Lower Upper
168 100
99 50.9 43.0 64.4

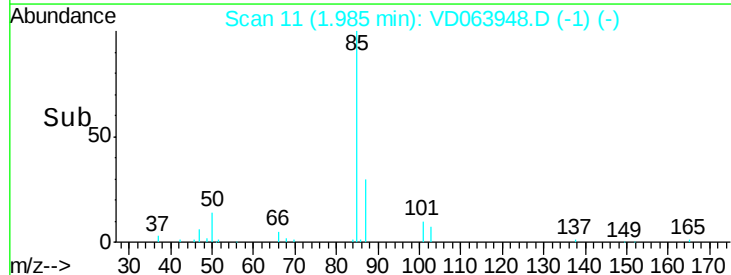
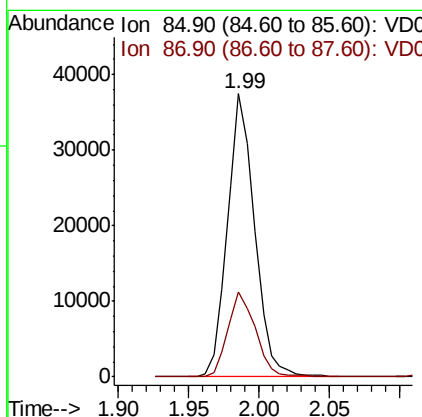
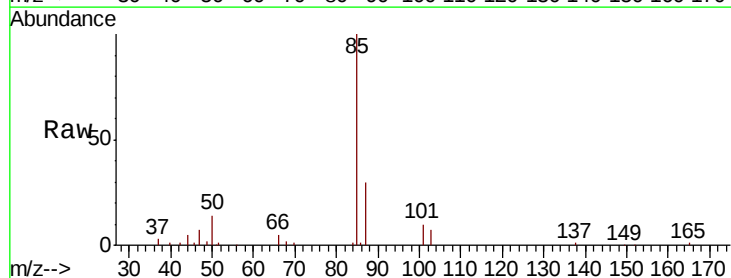
Manual Integrations
APPROVED

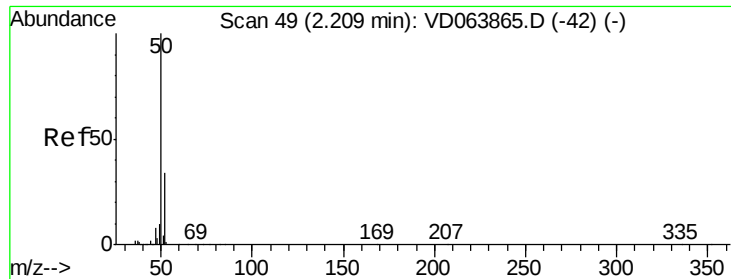
MMDadoda
10/15/2019 4:13:59 PM



#2
Dichlorodifluoromethane
Concen: 45.359 ug/l
RT: 1.99 min Scan# 11
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion: 85 Resp: 50280
Ion Ratio Lower Upper
85 100
87 30.2 14.0 42.0





#3

Chloromethane

Concen: 58.769 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 173669

Ion Ratio Lower Upper

50 100

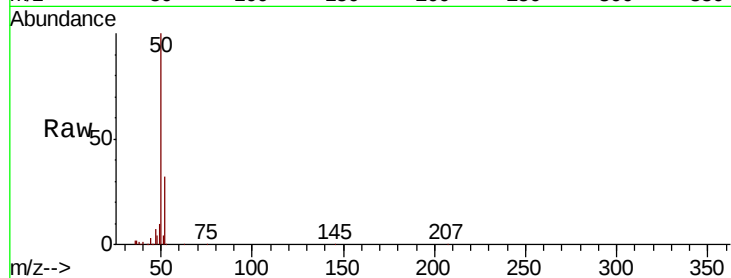
52 31.9 27.5 41.3

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

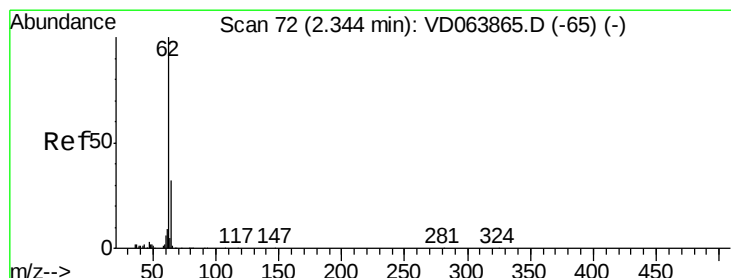
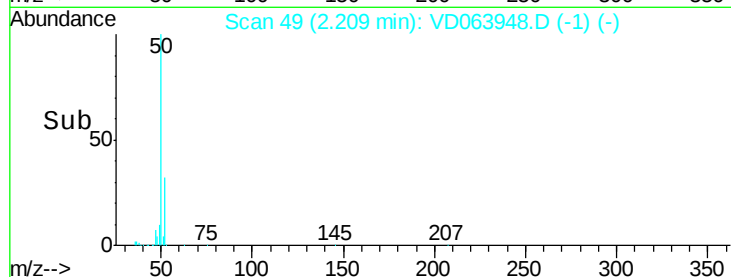
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 51.808 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063948.D

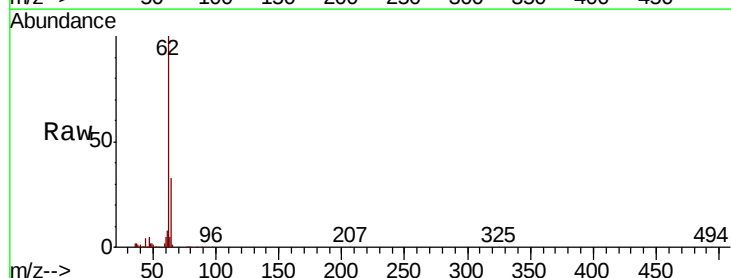
Acq: 11 Oct 2019 20:26

Tgt Ion: 62 Resp: 185612

Ion Ratio Lower Upper

62 100

64 32.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

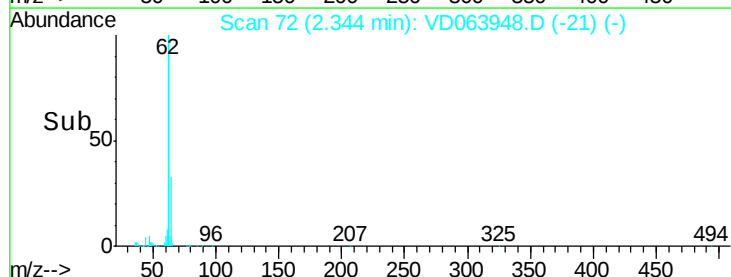
2.34

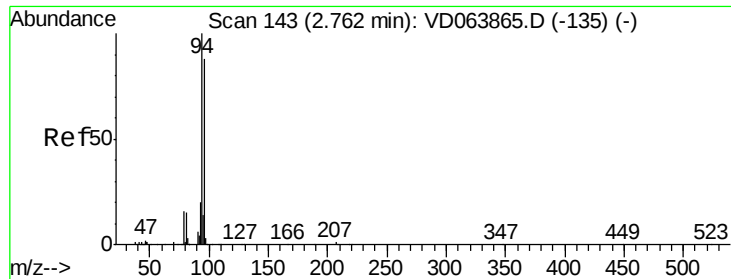
100000

50000

0

Time-->





#5

Bromomethane

Concen: 53.466 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 123147

Ion Ratio Lower Upper

94 100

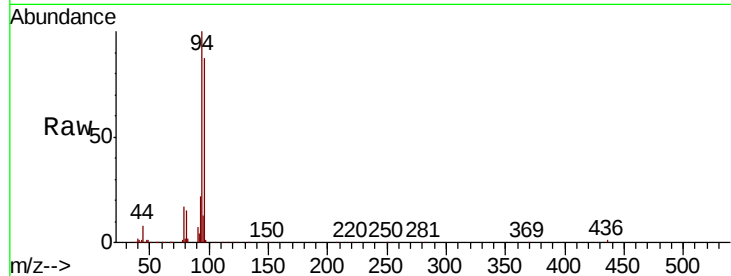
96 86.2 70.8 106.2

Manual Integrations

APPROVED

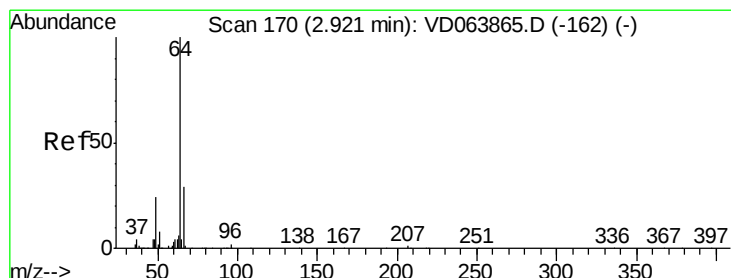
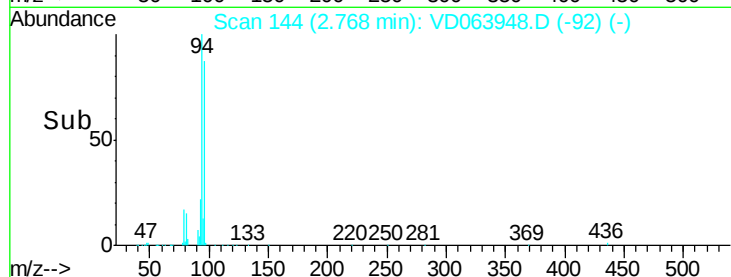
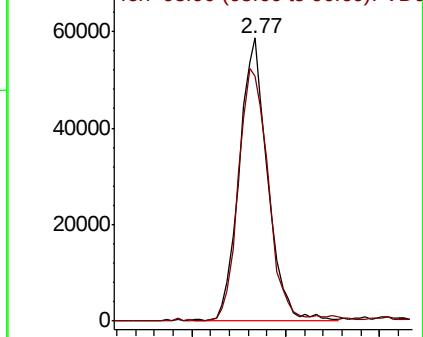
MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 53.654 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD063948.D

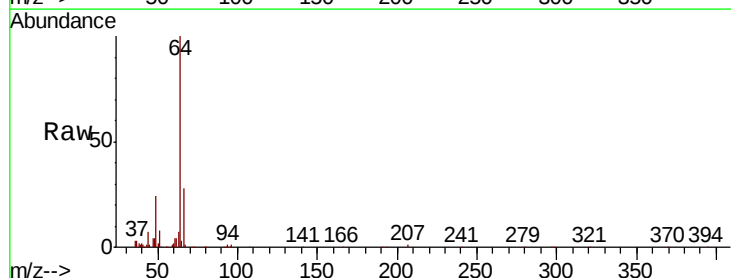
Acq: 11 Oct 2019 20:26

Tgt Ion: 64 Resp: 127124

Ion Ratio Lower Upper

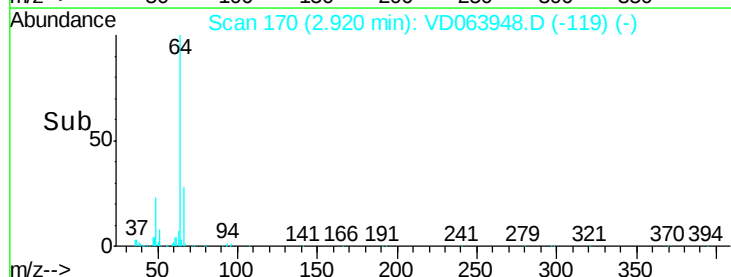
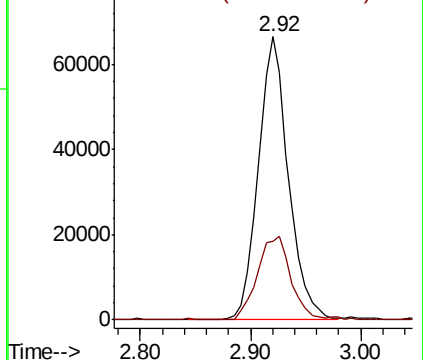
64 100

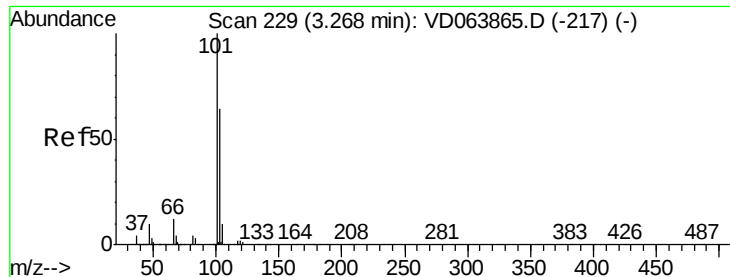
66 27.2 23.0 34.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

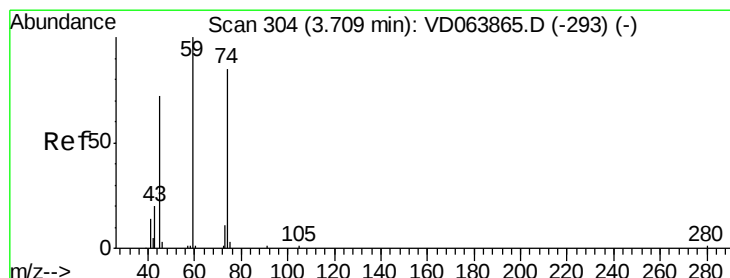
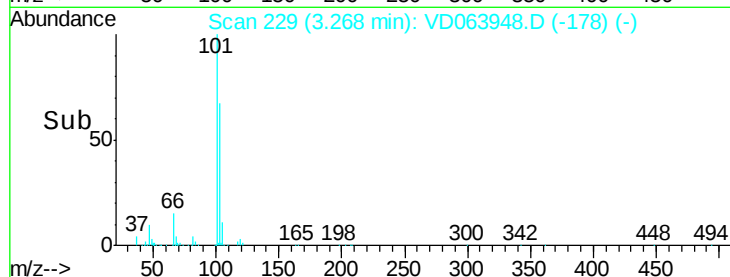
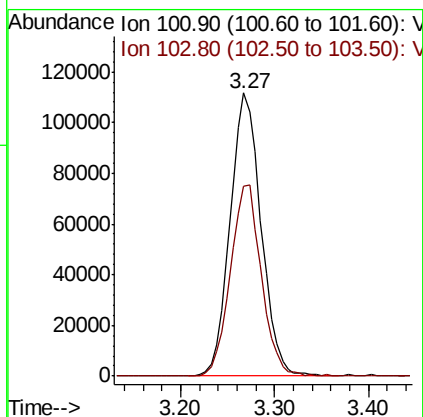
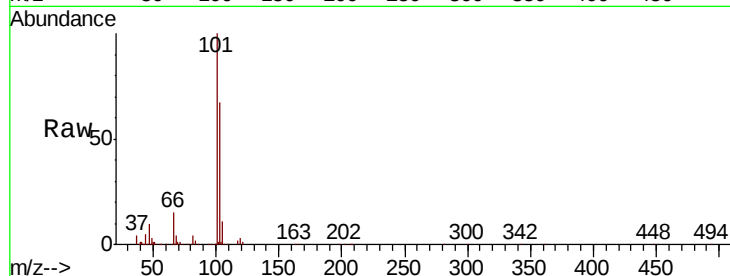
Trichlorofluoromethane
Concen: 53.898 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.0	51.1	76.7

Manual Integrations
APPROVED

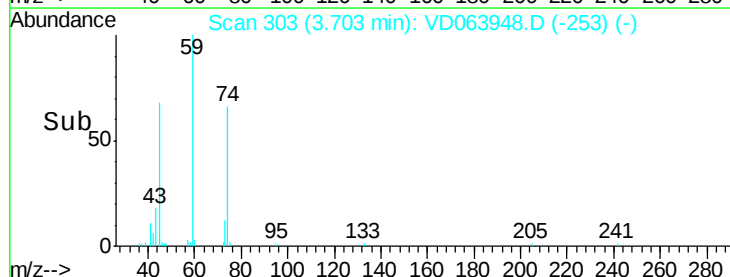
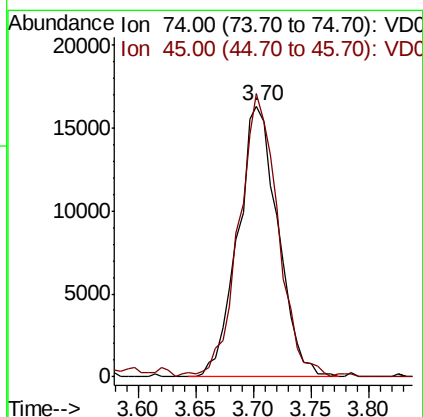
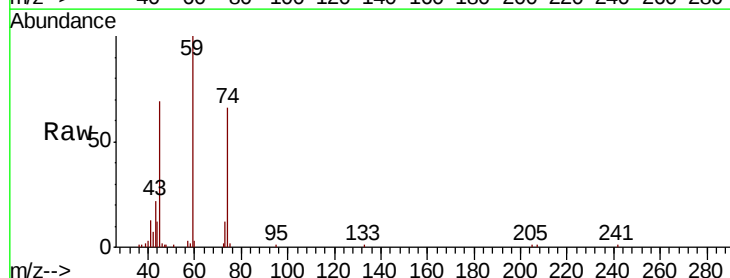
MMDadoda
10/15/2019 4:13:59 PM

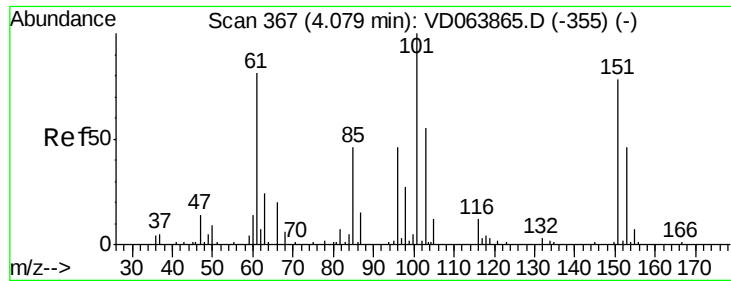


#8

Diethyl Ether
Concen: 51.894 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.8	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.022 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

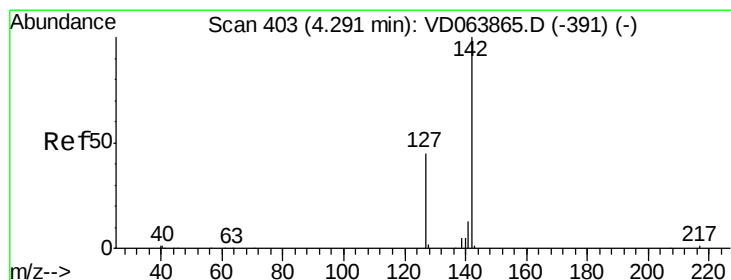
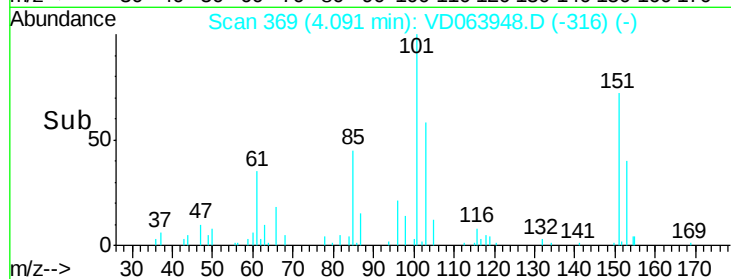
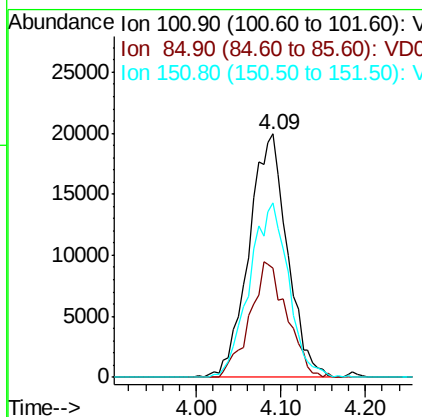
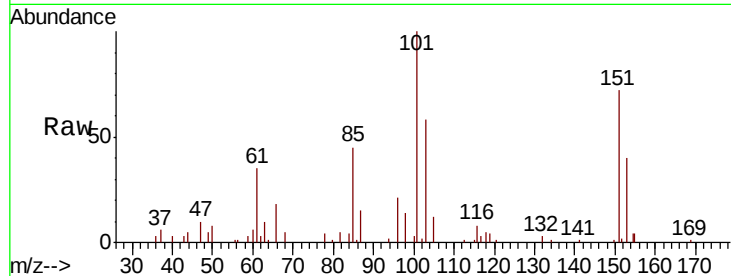
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	62966
Ion Ratio	Lower	Upper	
101	100		
85	45.8	37.5	56.3
151	72.8	65.5	98.3

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#10

Methyl Iodide

Concen: 49.408 ug/l

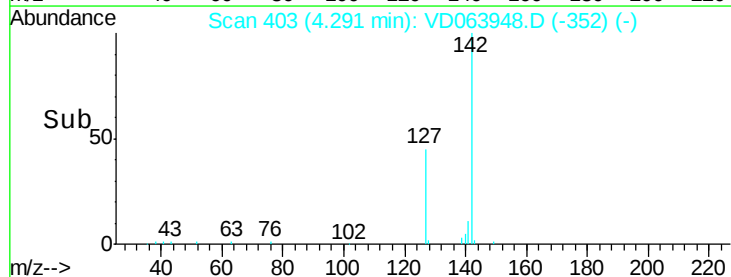
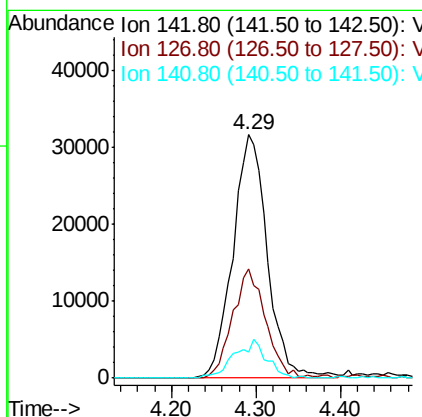
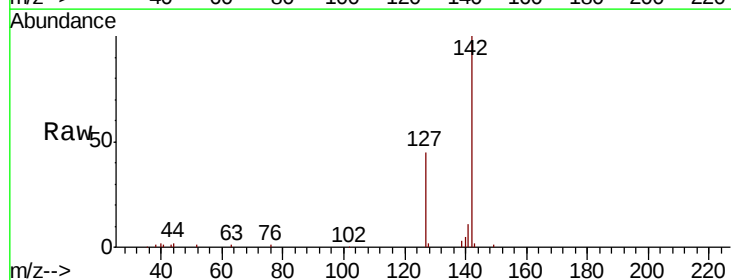
RT: 4.29 min Scan# 403

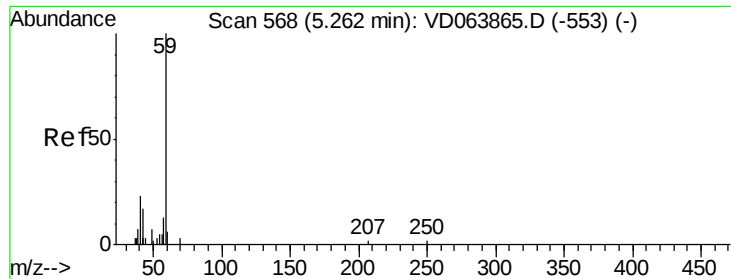
Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Tgt Ion:	142	Resp:	89267
Ion Ratio	Lower	Upper	
142	100		
127	42.7	35.3	52.9
141	14.7	12.2	18.2





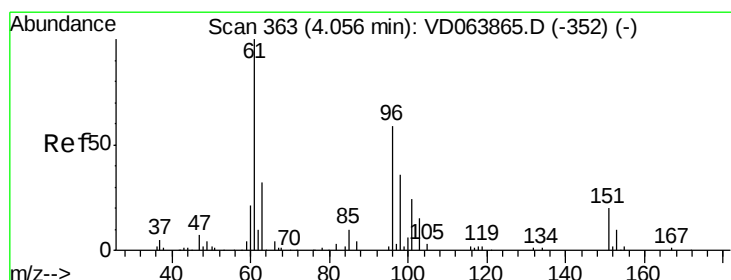
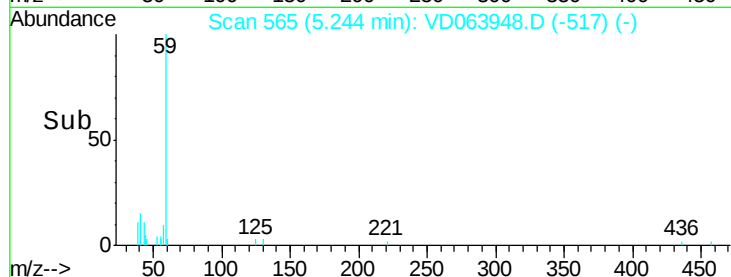
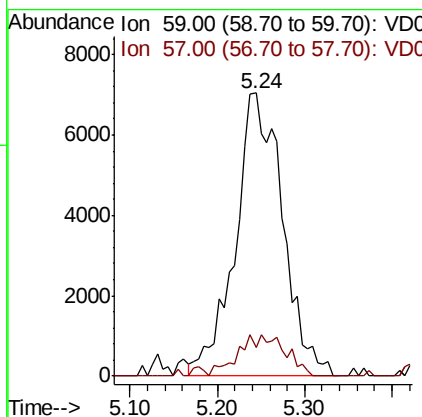
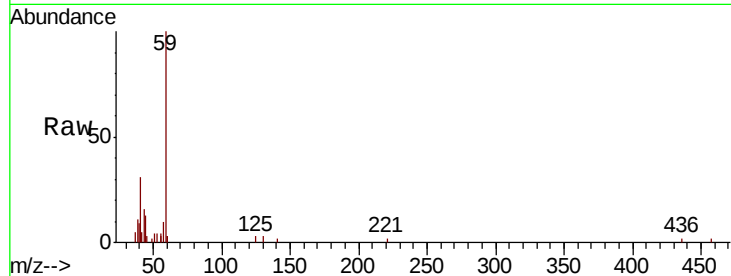
#11
Tert butyl alcohol
Concen: 246.168 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 26038
Ion Ratio Lower Upper
59 100
57 6.2 8.8 13.2#

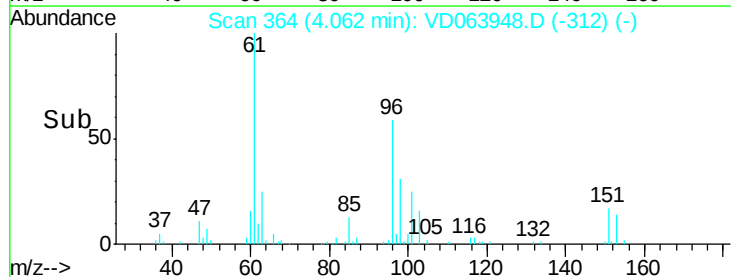
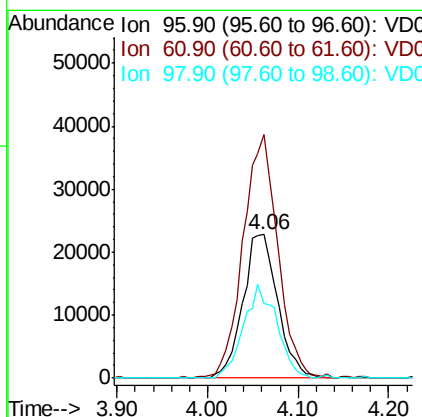
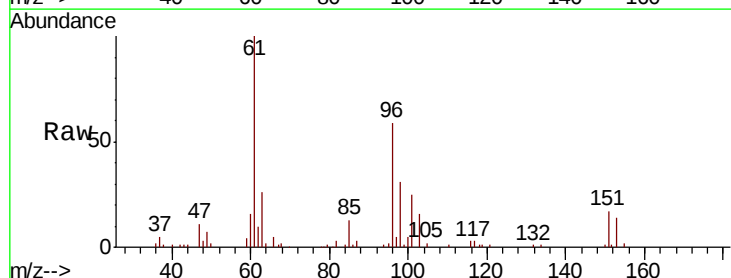
Manual Integrations
APPROVED

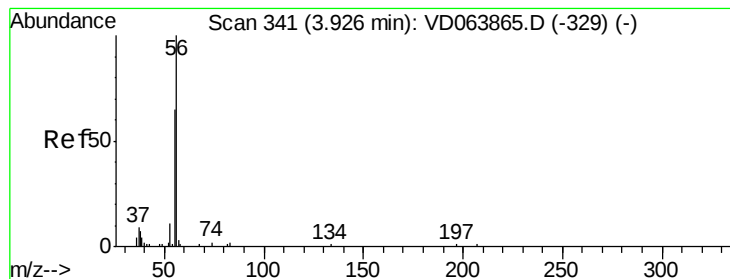
MMDadoda
10/15/2019 4:13:59 PM



#12
1,1-Dichloroethene
Concen: 46.404 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion: 96 Resp: 60788
Ion Ratio Lower Upper
96 100
61 170.0 135.6 203.4
98 52.4 49.2 73.8





#13

Acrolein

Concen: 132.414 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 17997

Ion Ratio Lower Upper

56 100

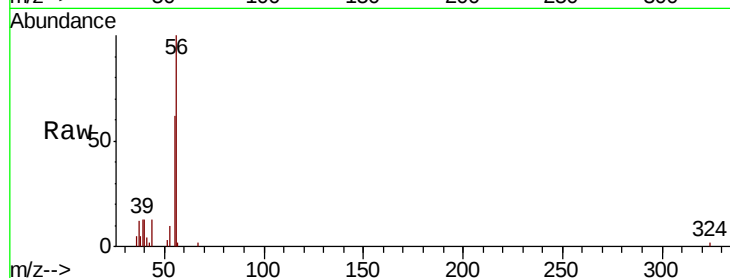
55 69.7 53.0 79.6

Manual Integrations

APPROVED

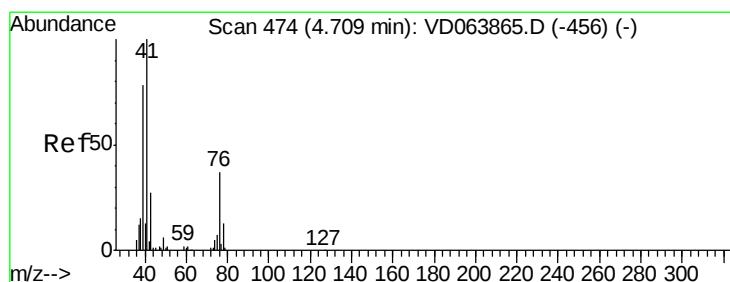
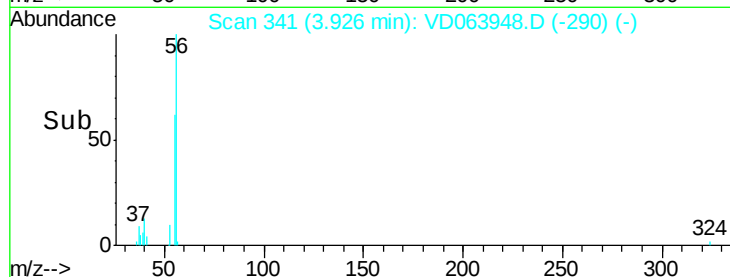
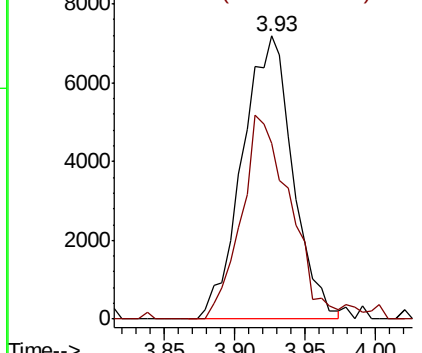
MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 51.603 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

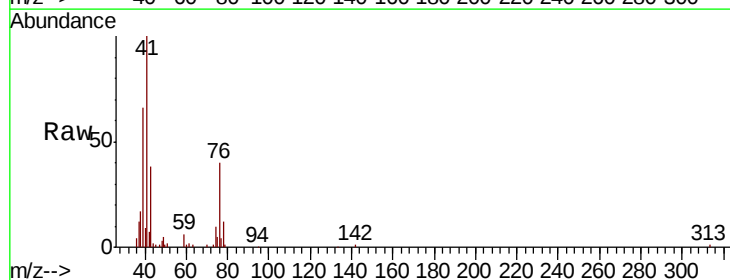
Tgt Ion: 41 Resp: 112387

Ion Ratio Lower Upper

41 100

39 75.0 61.8 92.6

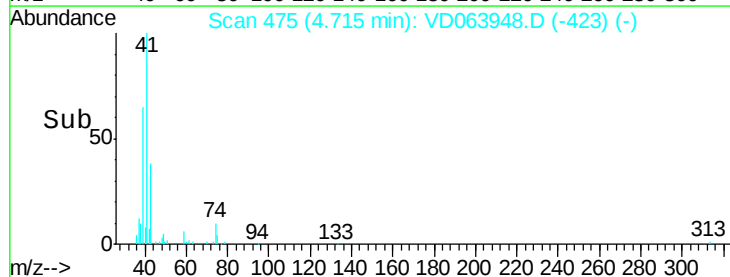
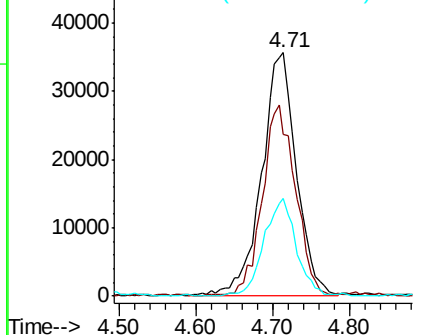
76 37.0 31.3 46.9

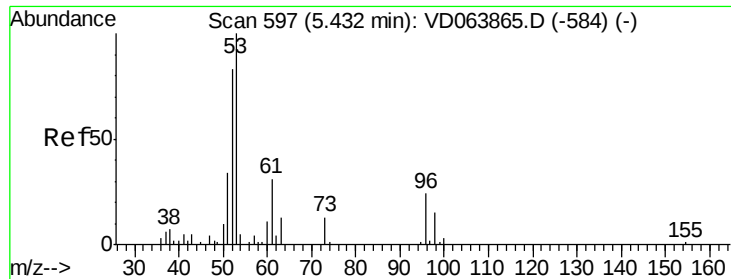


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





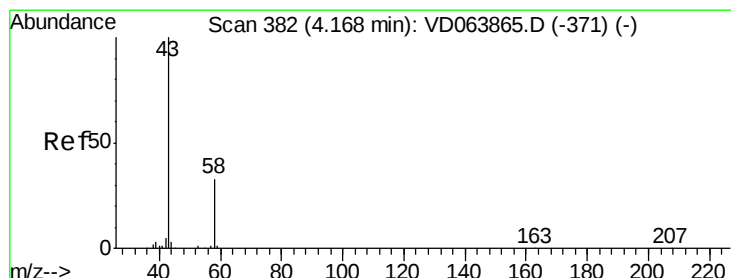
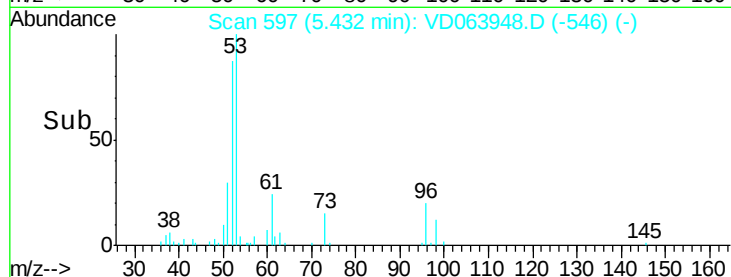
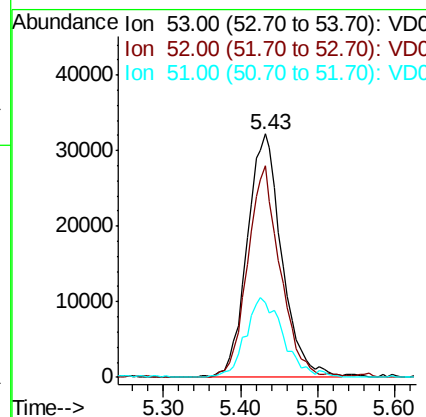
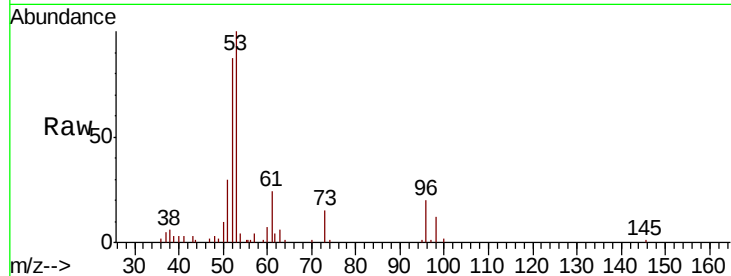
#15
 Acrylonitrile
 Concen: 302.382 ug/l
 RT: 5.43 min Scan# 597
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.2	67.3	100.9
51	34.8	30.5	45.7

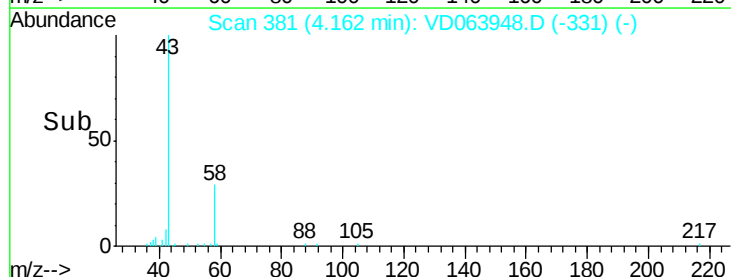
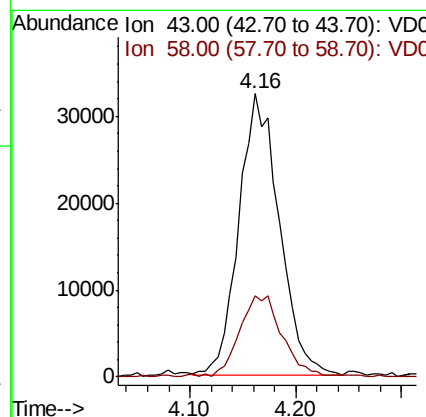
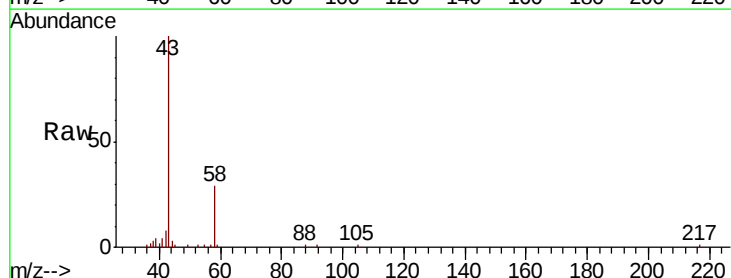
Manual Integrations
 APPROVED

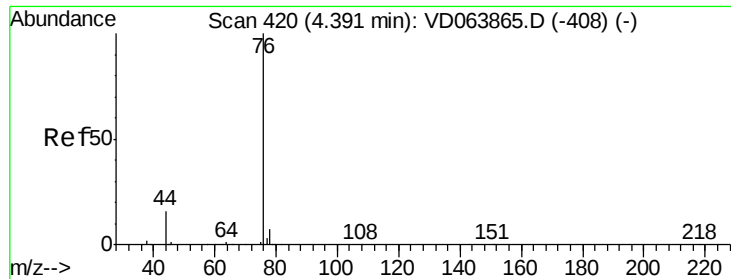
MMDadoda
 10/15/2019 4:13:59 PM



#16
 Acetone
 Concen: 216.182 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.3	26.2	39.4





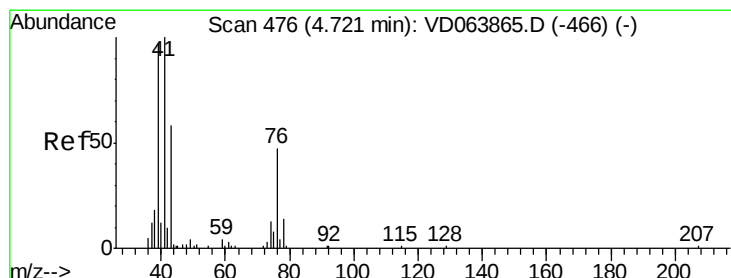
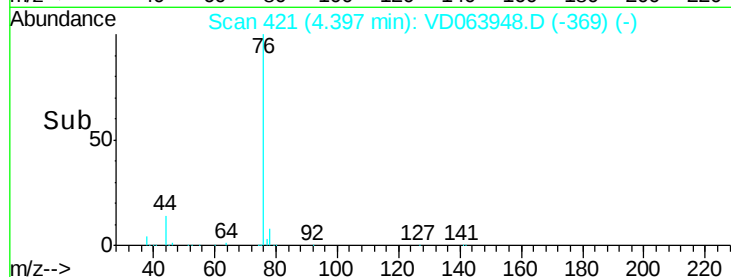
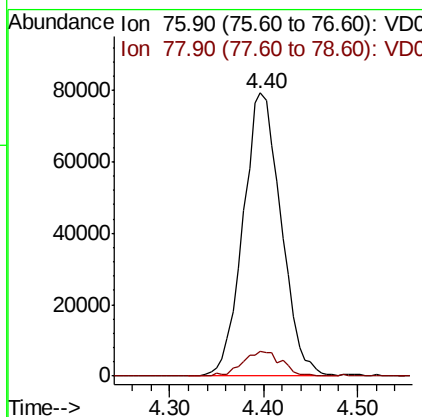
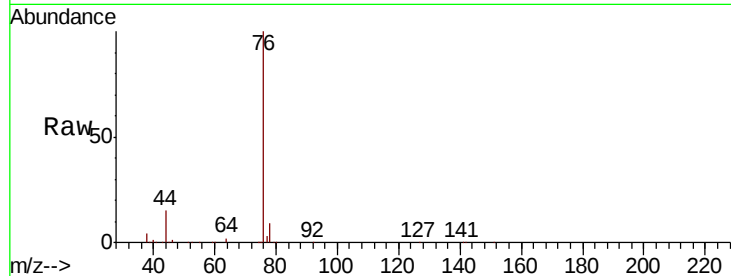
#17
Carbon Disulfide
Concen: 46.589 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	5.8	8.8

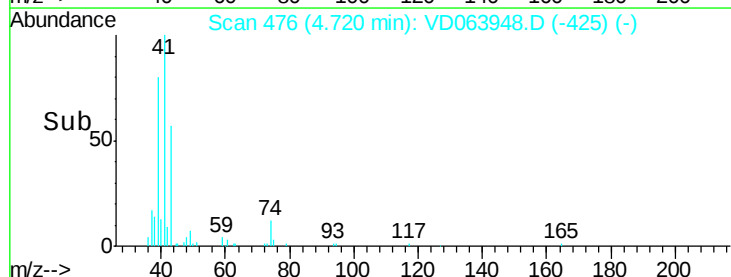
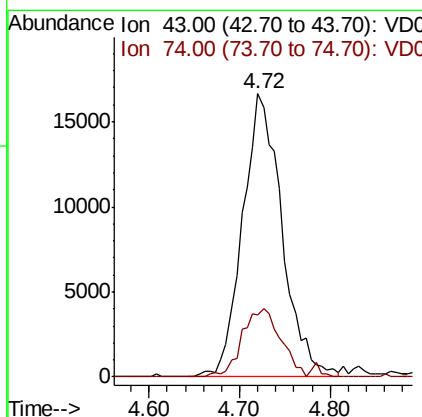
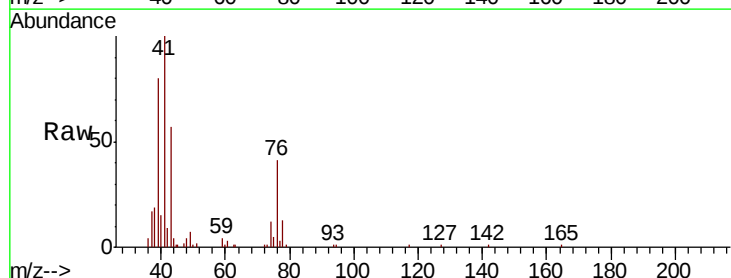
Manual Integrations
APPROVED

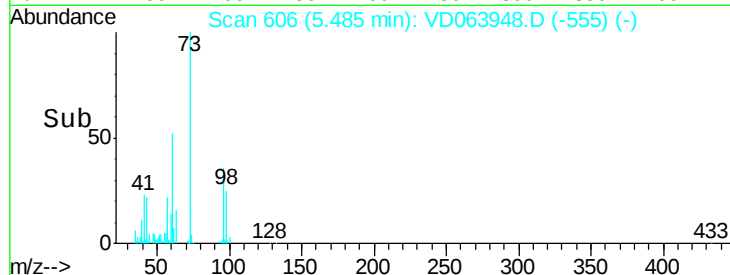
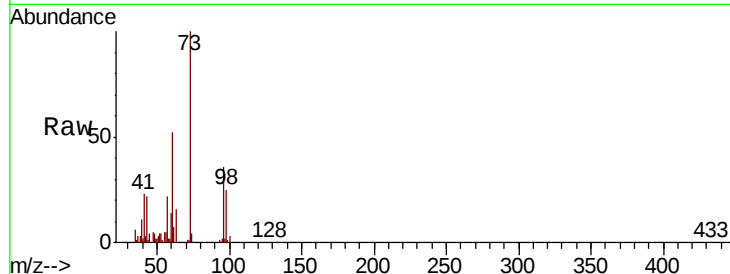
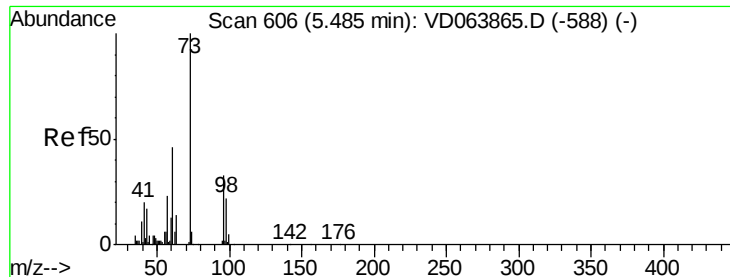
MMDadoda
10/15/2019 4:13:59 PM



#18
Methyl Acetate
Concen: 64.794 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.6	20.8	31.2





#19

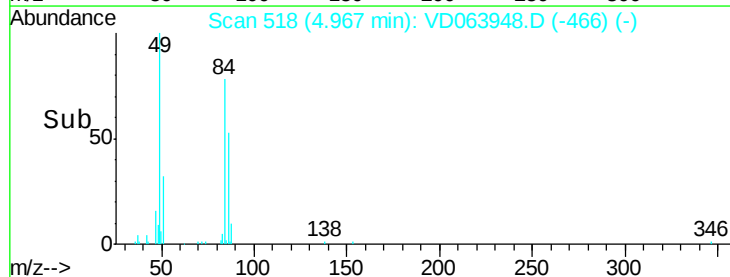
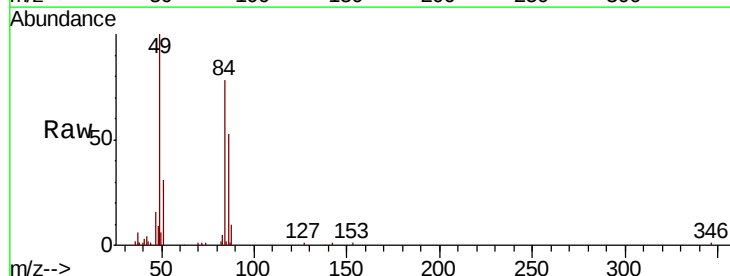
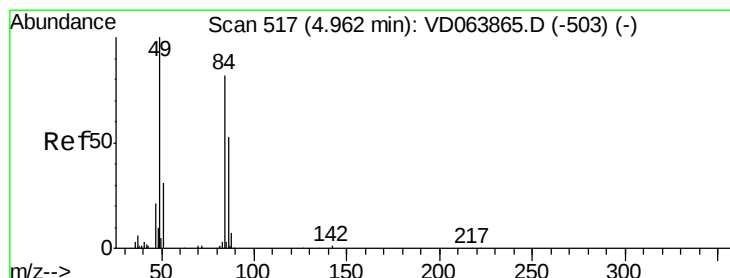
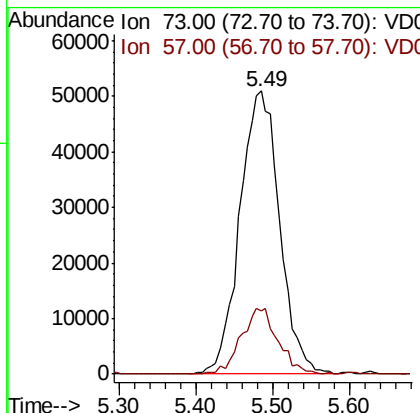
Methyl tert-butyl Ether
Concen: 54.009 ug/l
RT: 5.49 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tot Ion	73	Resp	183210
Ion Ratio	100	Lower	Upper
73	100		
57	22.3	18.1	27.1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

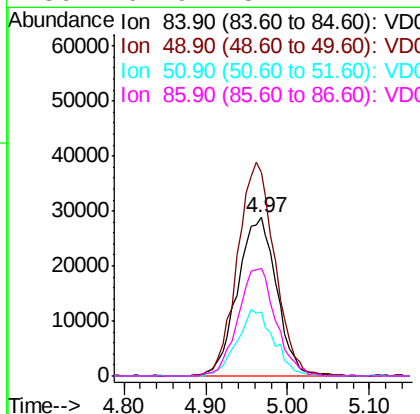
MMDadoda
10/15/2019 4:13:59 PM

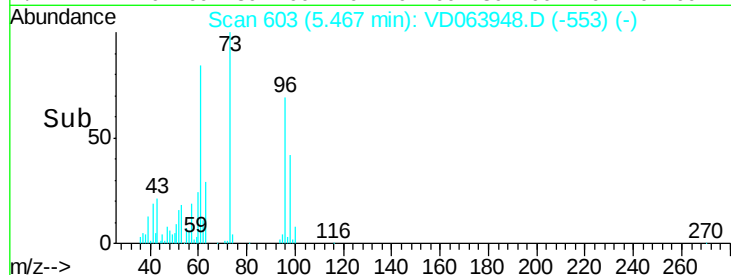
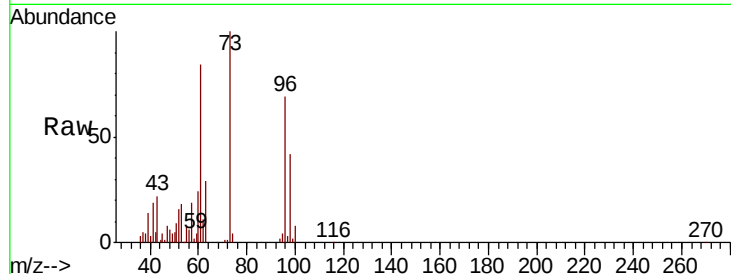
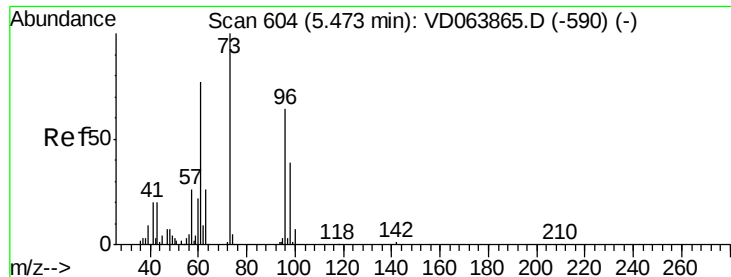


#20

Methylene Chloride
Concen: 54.569 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	84	Resp	95448
Ion Ratio	100	Lower	Upper
84	100		
49	128.9	97.3	145.9
51	40.3	30.1	45.1
86	67.9	51.4	77.2





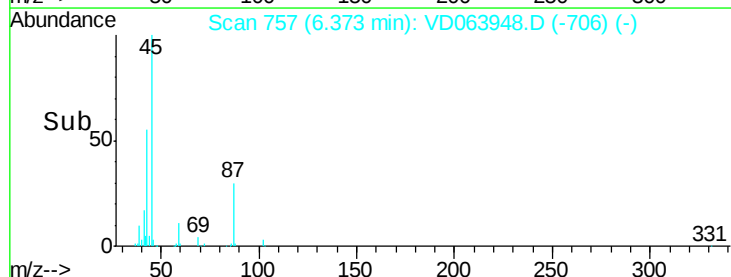
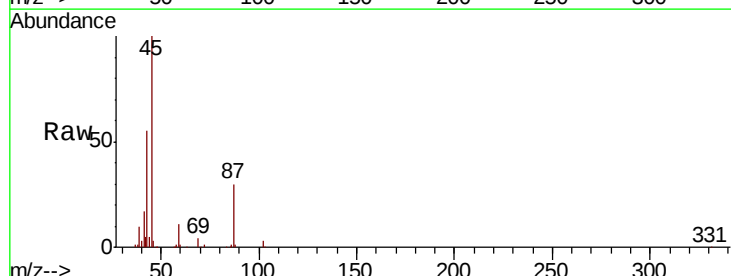
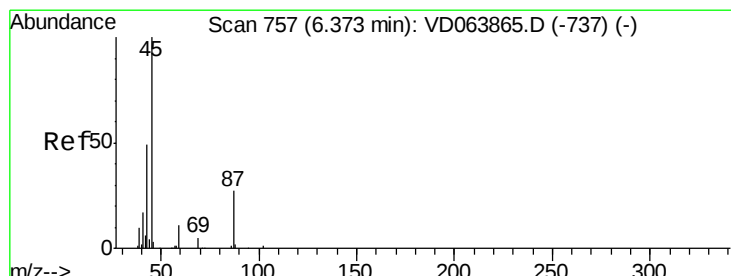
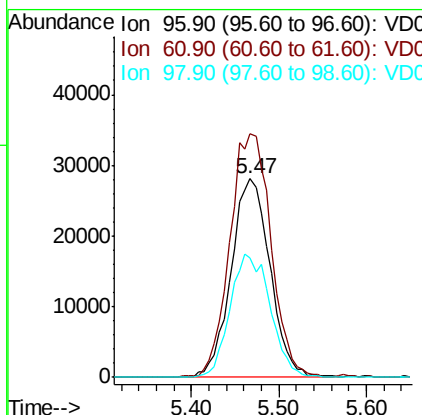
#21
trans-1,2-Dichloroethene
Concen: 52.072 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tot Ion	Ratio	Lower	Upper
96	100		
61	122.0	96.6	145.0
98	60.4	48.7	73.1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

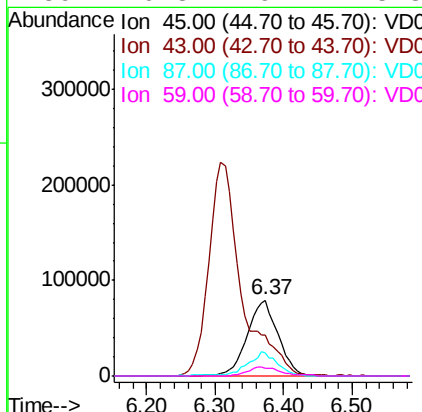
Manual Integrations
APPROVED

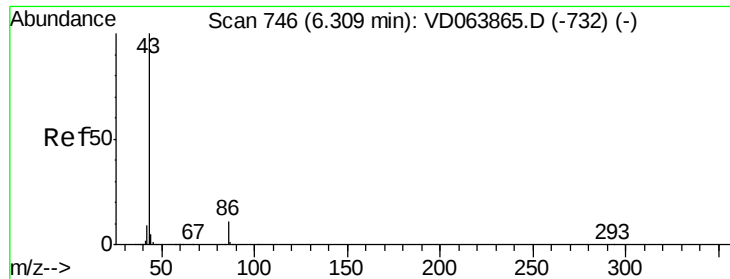
MMDadoda
10/15/2019 4:13:59 PM



#22
Diisopropyl ether
Concen: 56.061 ug/l
RT: 6.37 min Scan# 757
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	53.5	41.2	61.8
87	30.2	22.2	33.4
59	10.8	9.2	13.8





#23

Vinyl Acetate

Concen: 280.122 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 741223

Ion Ratio Lower Upper

43 100

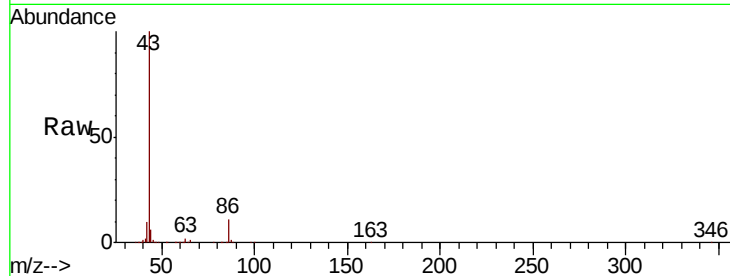
86 10.5 8.8 13.2

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

250000

200000

150000

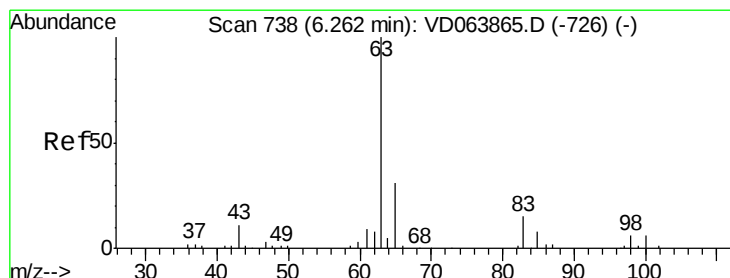
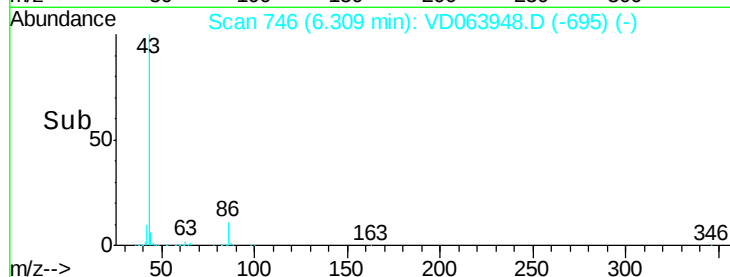
100000

50000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 53.348 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

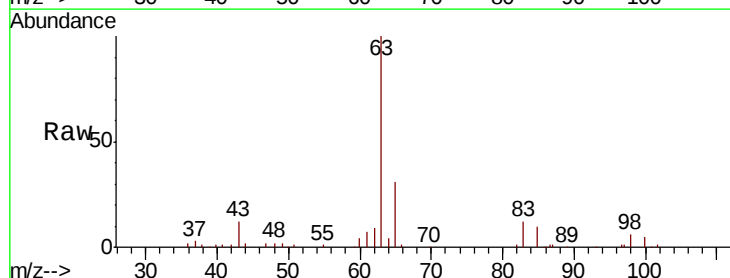
Tgt Ion: 63 Resp: 146163

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.4

100 5.0 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

60000

50000

40000

30000

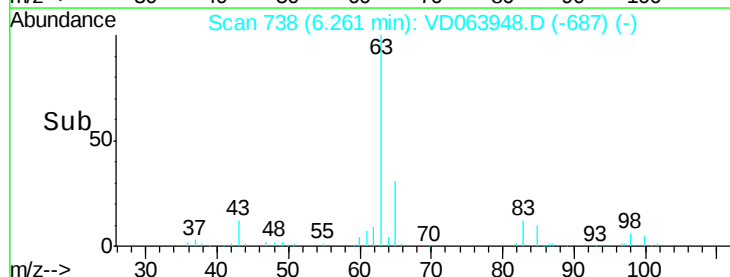
20000

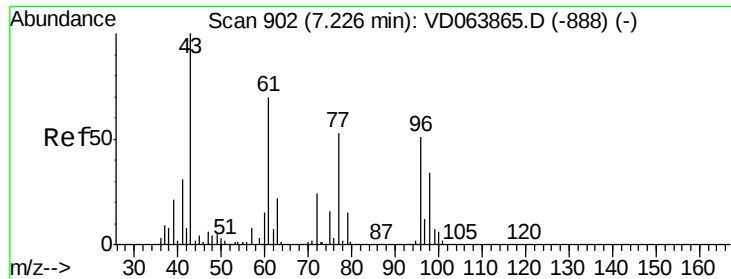
10000

0

6.10 6.20 6.30 6.40

Time-->





#25

2-Butanone

Concen: 277.215 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 130163

Ion Ratio Lower Upper

43 100

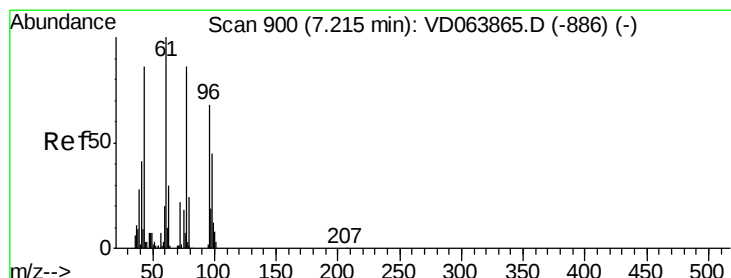
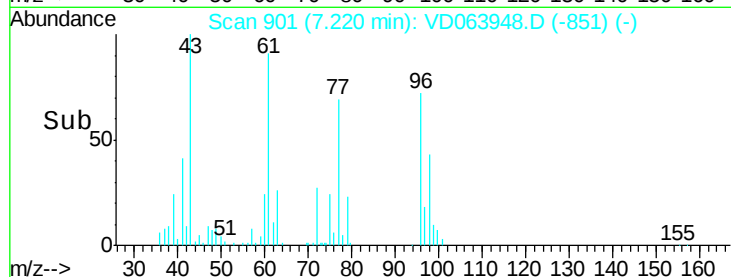
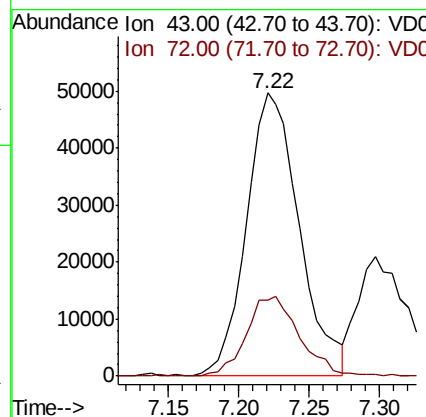
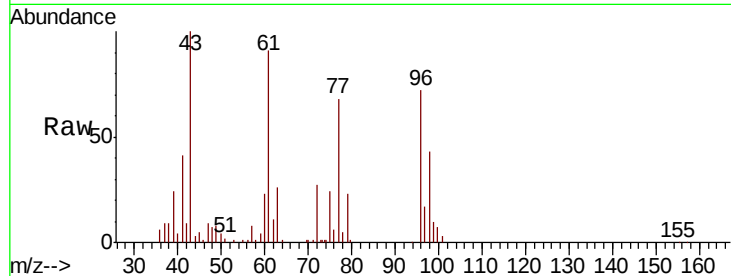
72 26.6 19.2 28.8

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



#26

2,2-Dichloropropane

Concen: 46.788 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD063948.D

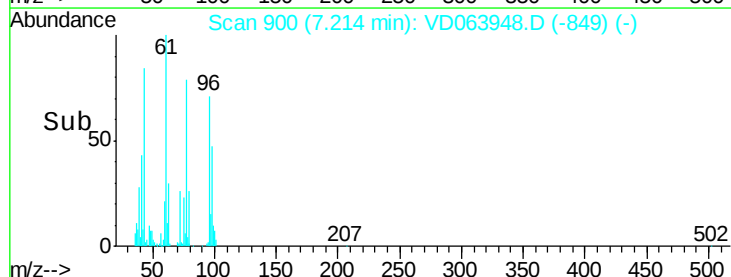
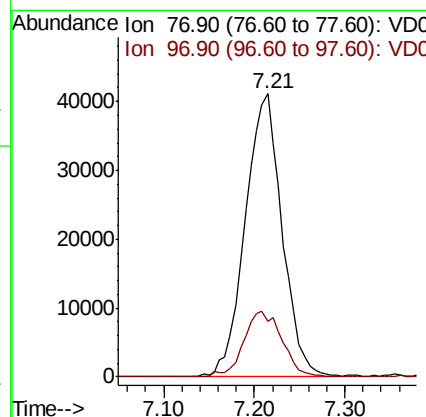
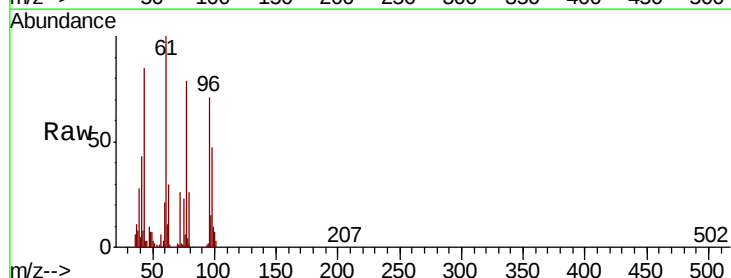
Acq: 11 Oct 2019 20:26

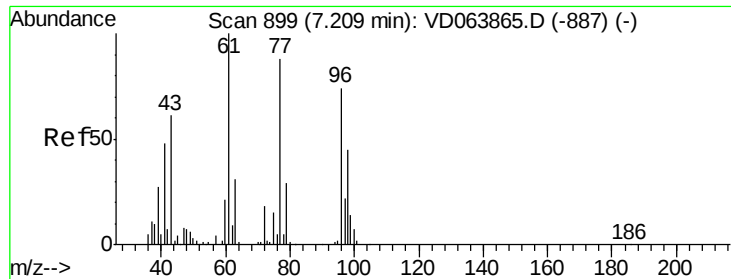
Tgt Ion: 77 Resp: 115960

Ion Ratio Lower Upper

77 100

97 24.2 11.4 34.1





#27

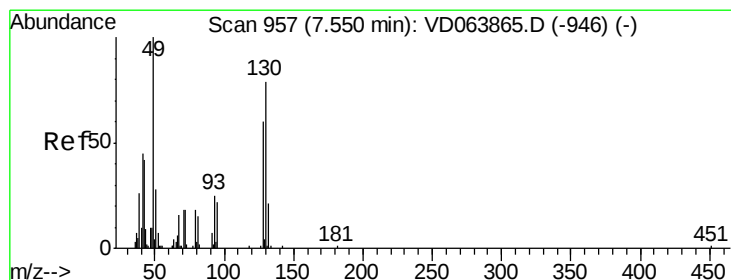
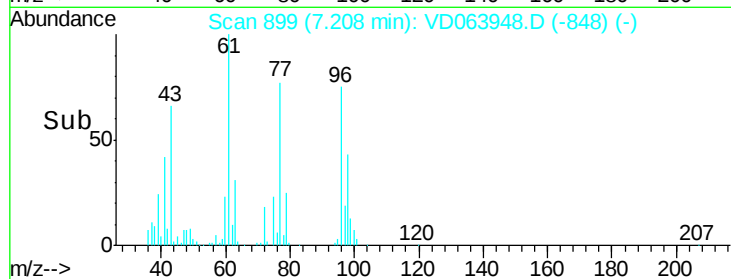
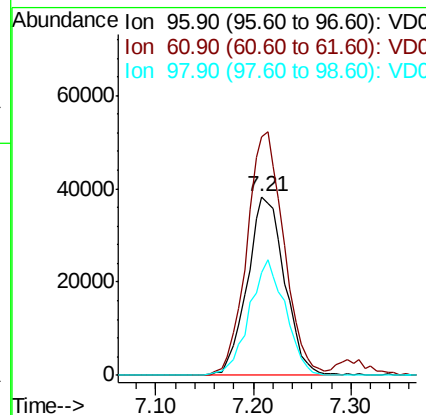
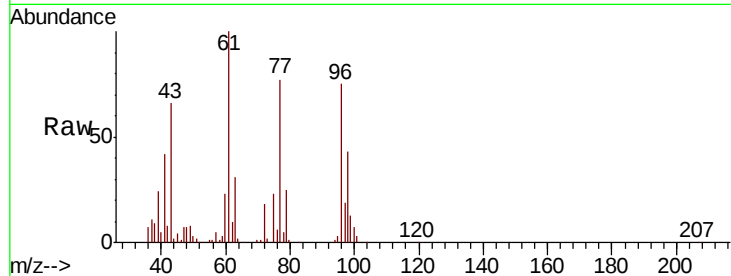
cis-1,2-Dichloroethene
 Concen: 55.426 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	135.7	0.0	280.0	
98	62.8	0.0	130.4	

Manual Integrations
 APPROVED

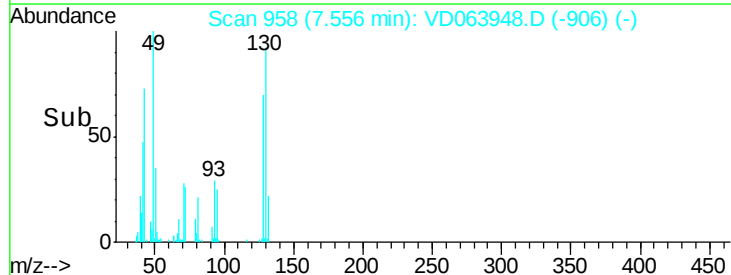
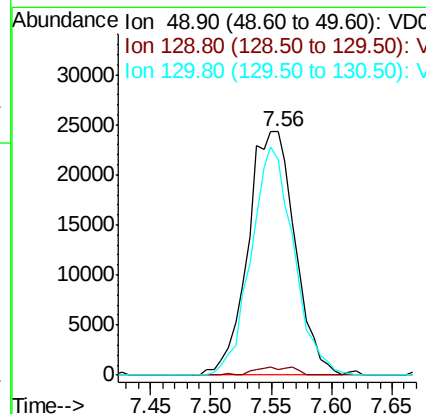
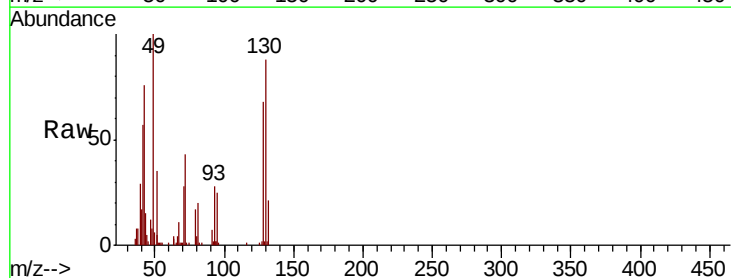
MMDadoda
 10/15/2019 4:13:59 PM

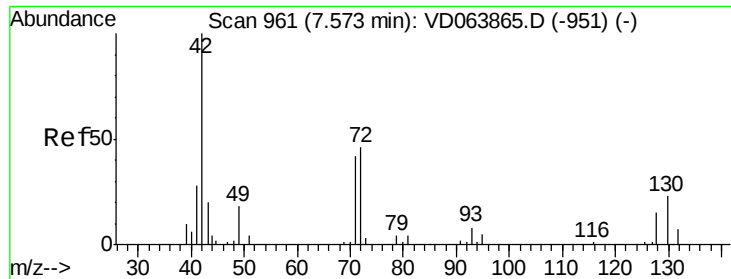


#28

Bromochloromethane
 Concen: 62.570 ug/l
 RT: 7.56 min Scan# 958
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	5.6	
130	85.1	66.8	100.2	





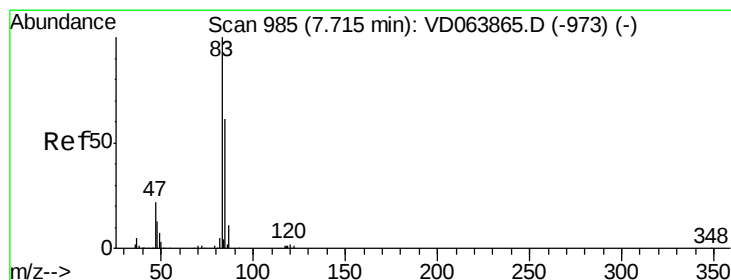
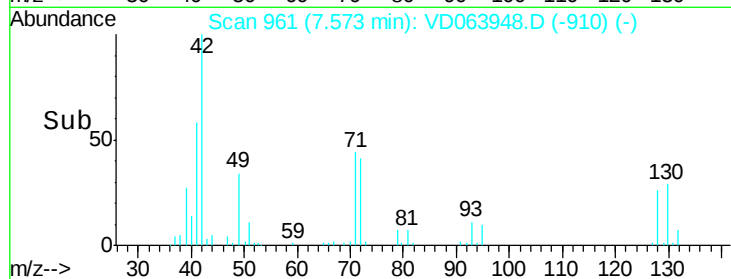
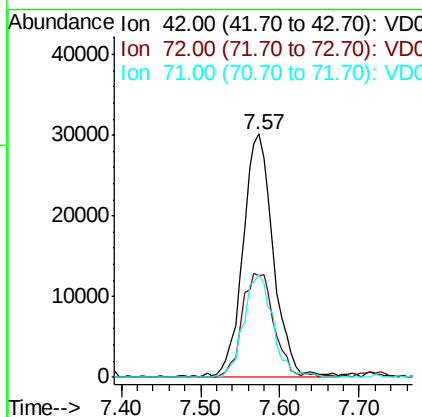
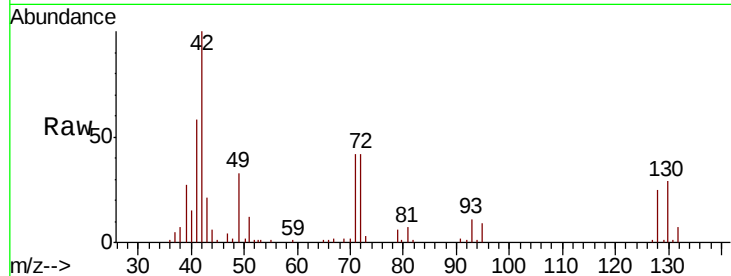
#29
Tetrahydrofuran
Concen: 293.650 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	37.6	56.4
71	41.0	35.0	52.6

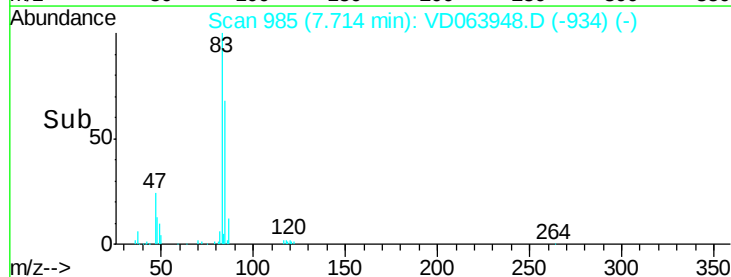
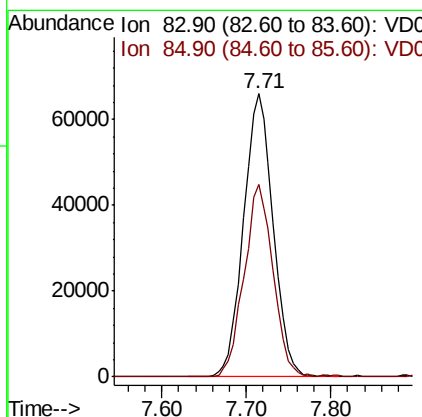
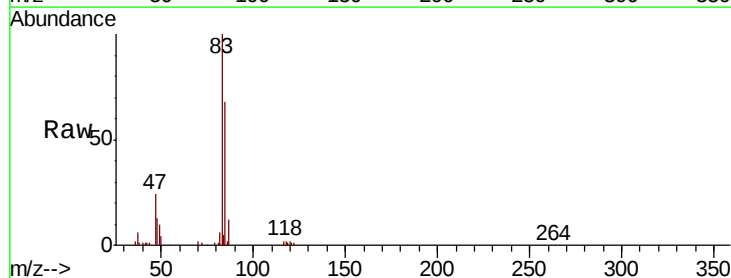
Manual Integrations
APPROVED

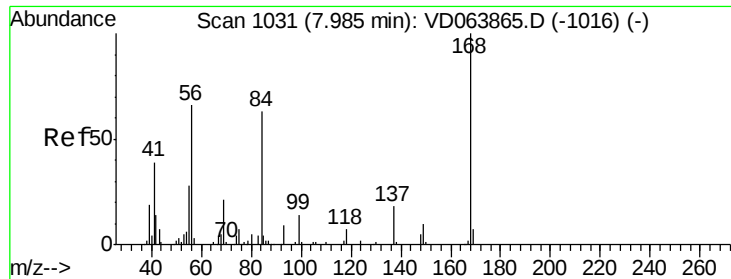
MMDadoda
10/15/2019 4:13:59 PM



#30
Chloroform
Concen: 53.991 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.1	48.9	73.3





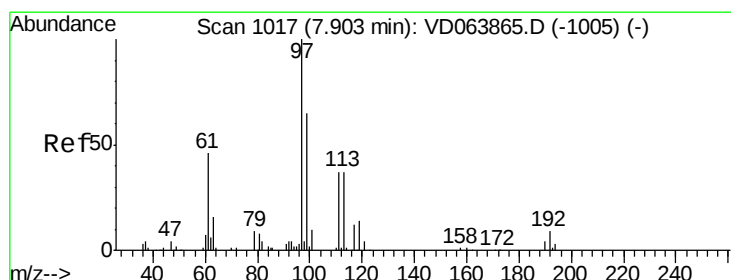
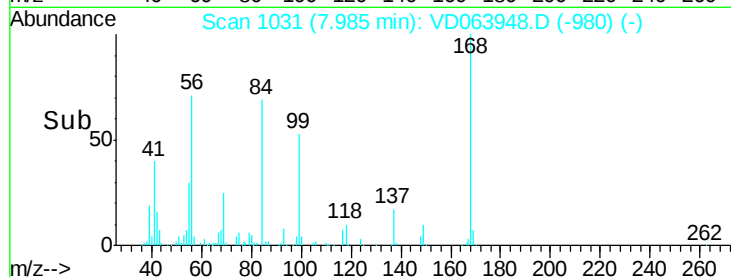
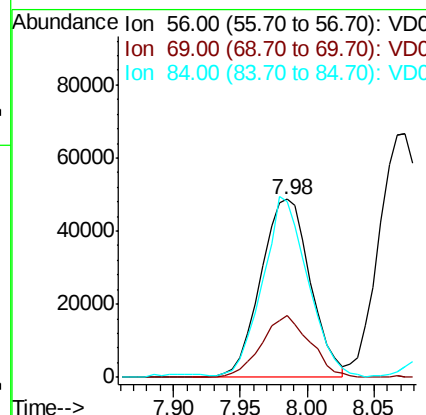
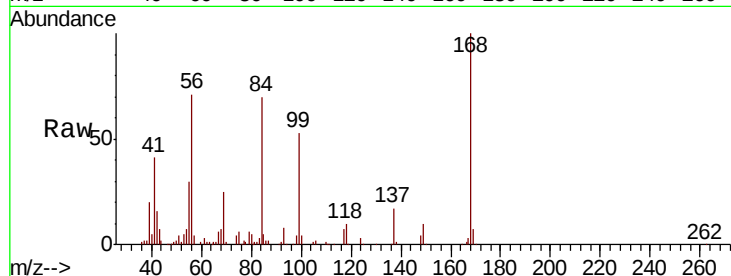
#31
Cyclohexane
Concen: 55.876 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.3	25.0	37.4
84	97.0	76.3	114.5

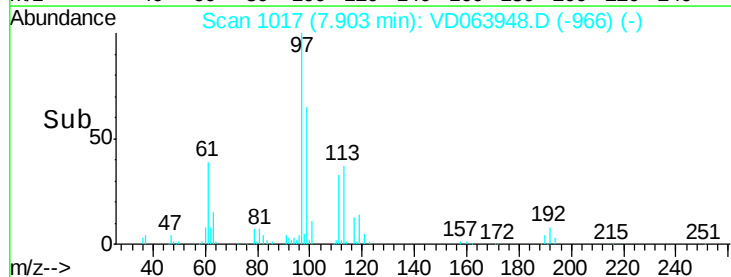
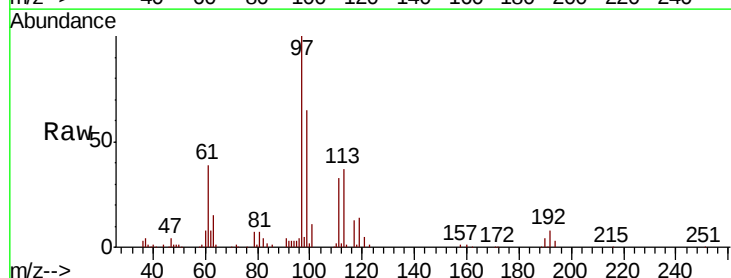
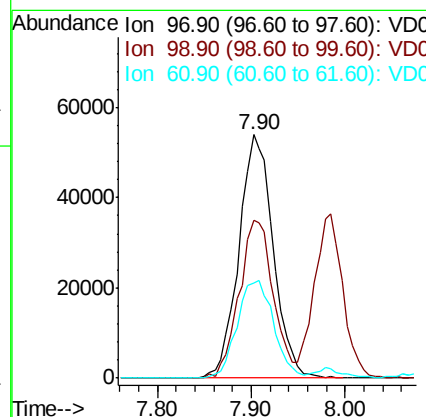
Manual Integrations
APPROVED

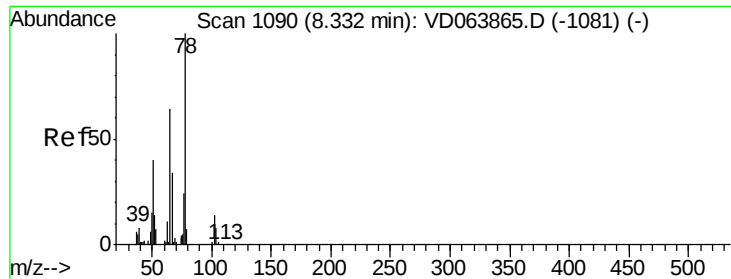
MMDadoda
10/15/2019 4:13:59 PM



#32
1,1,1-Trichloroethane
Concen: 53.401 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.4	78.6
61	42.7	33.8	50.8





#33

1,2-Dichloroethane-d4

Concen: 52.519 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 79921

Ion Ratio Lower Upper

65 100

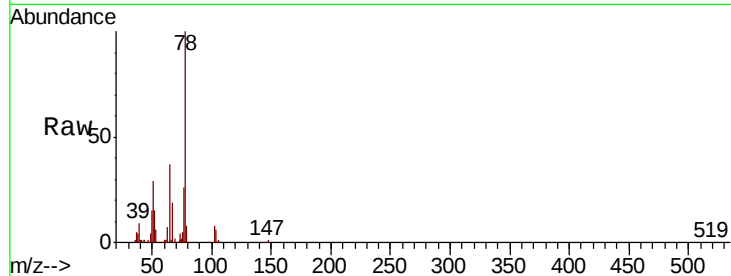
67 52.8 0.0 106.4

Manual Integrations

APPROVED

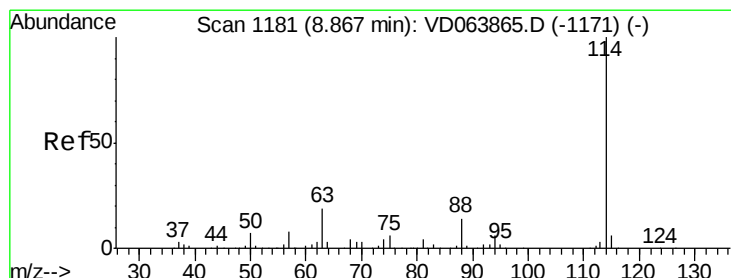
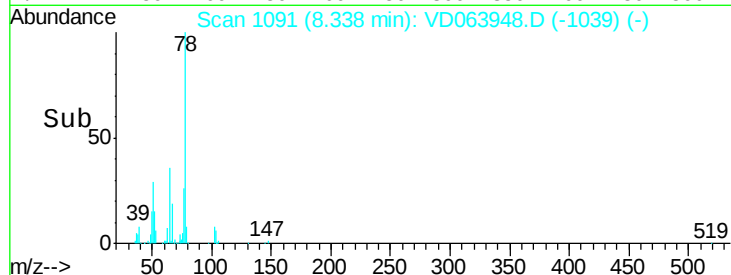
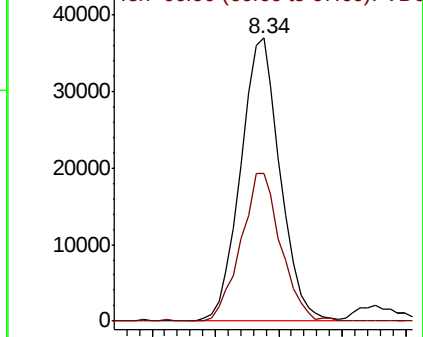
MMDadoda

10/15/2019 4:13:59 PM



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: VD063948.D

Acq: 11 Oct 2019 20:26

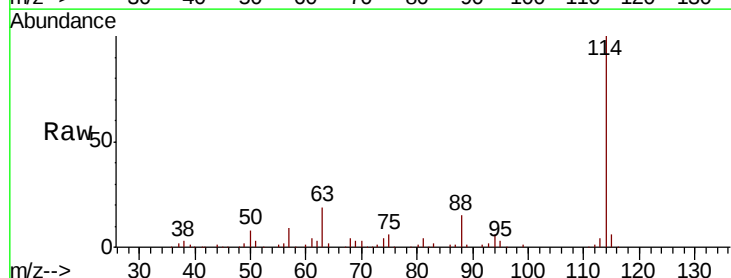
Tgt Ion: 114 Resp: 262951

Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.4

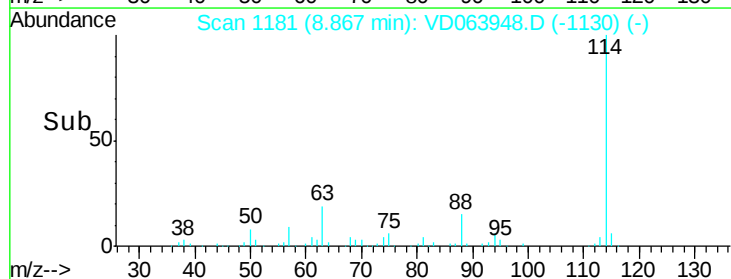
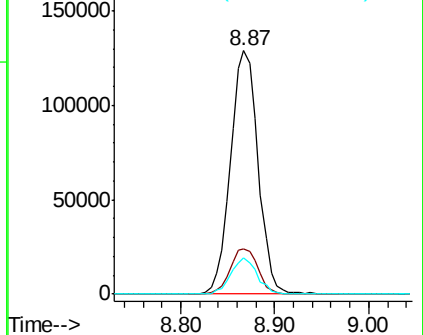
88 14.7 0.0 27.4

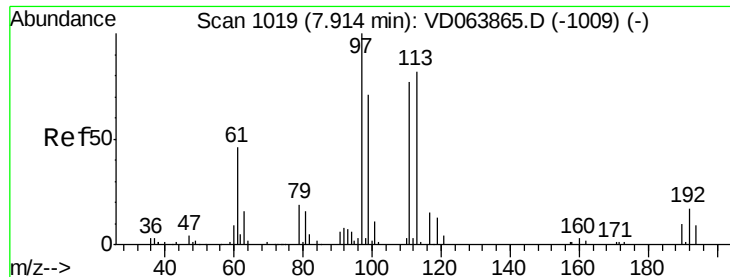


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





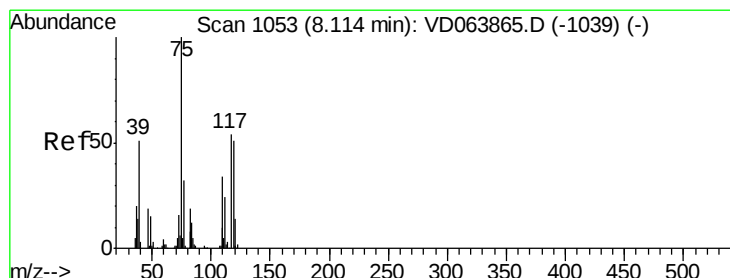
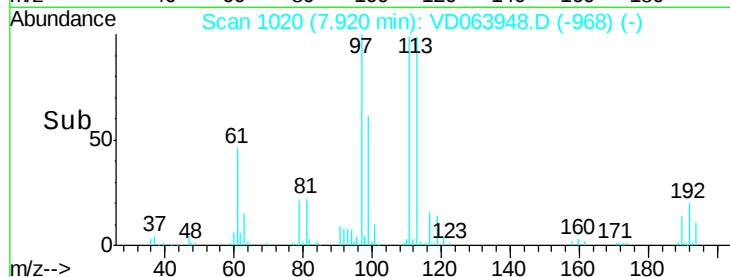
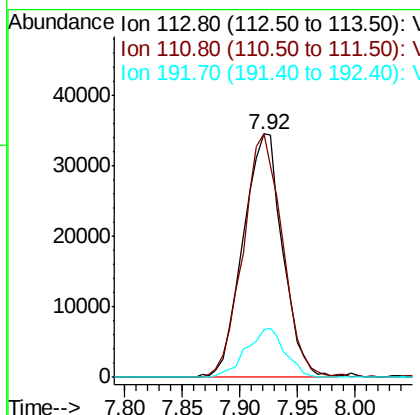
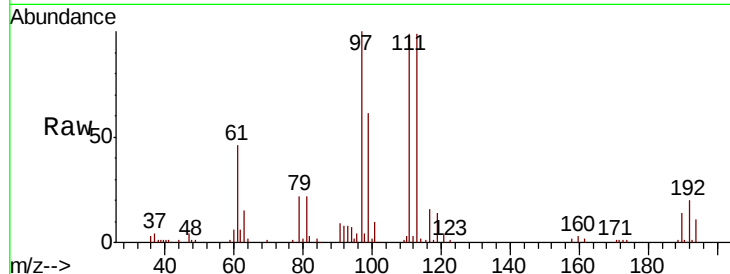
#35
 Dibromofluoromethane
 Concen: 51.336 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
113	100		
111	99.5	82.6	123.8
192	19.6	17.1	25.7

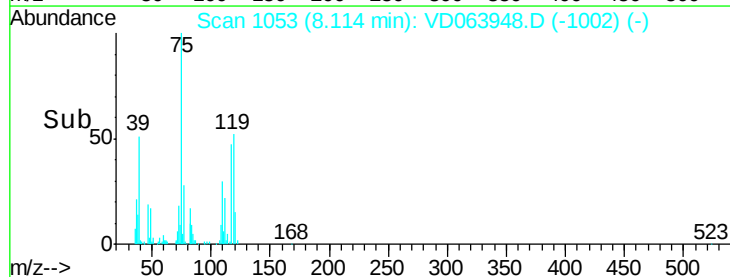
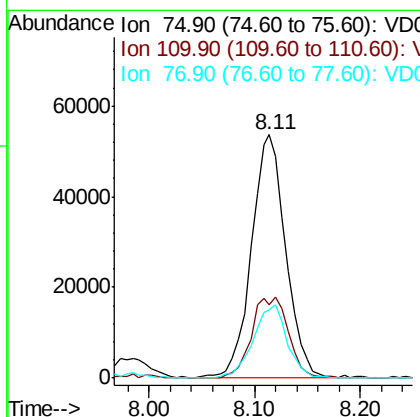
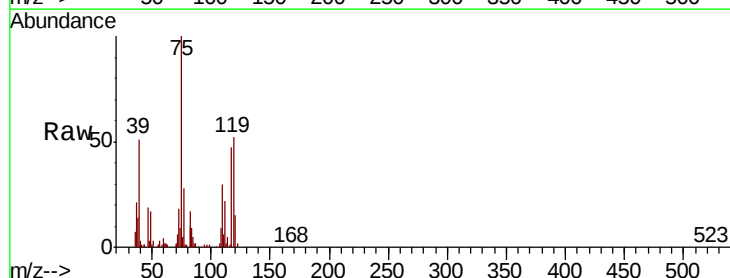
Manual Integrations
 APPROVED

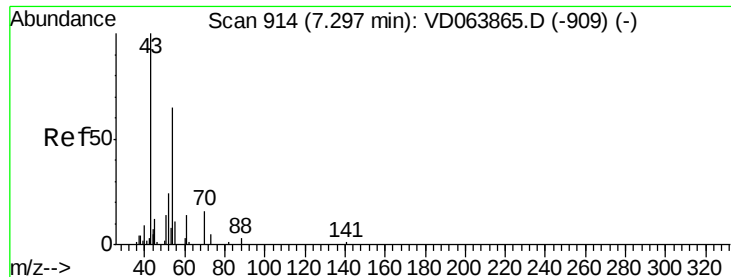
MMDadoda
 10/15/2019 4:13:59 PM



#36
 1,1-Dichloropropene
 Concen: 50.414 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.8	17.4	52.3
77	29.8	25.4	38.0





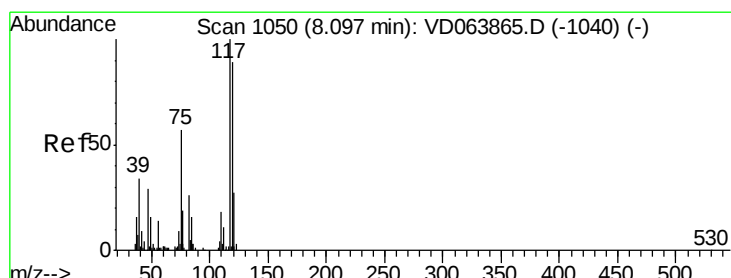
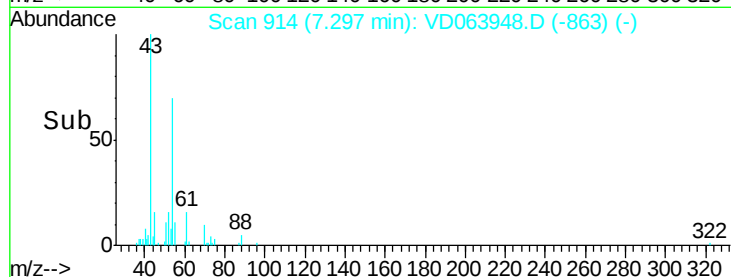
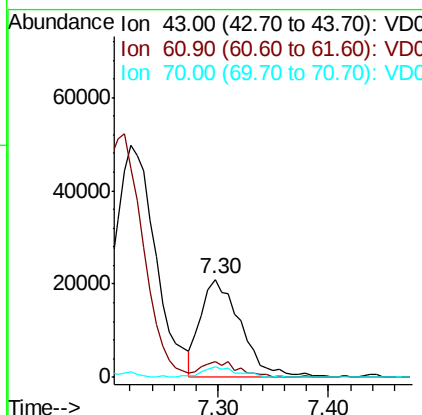
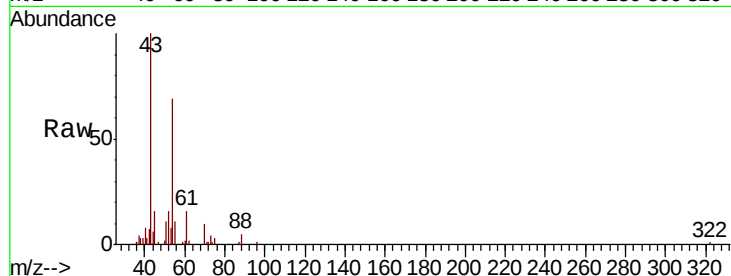
#37
Ethyl Acetate
Concen: 55.109 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.5	17.3
70	9.4	8.2	12.4

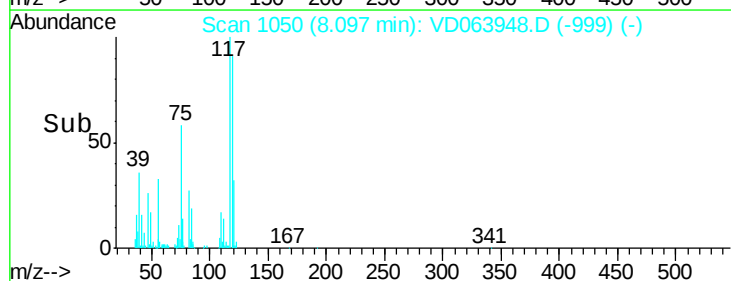
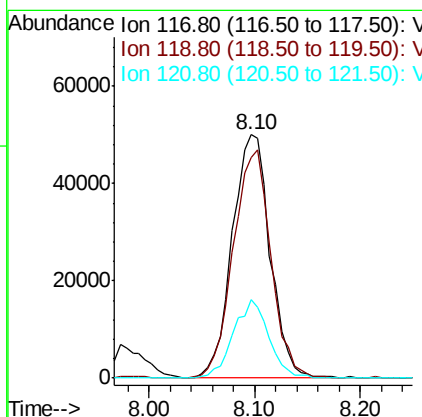
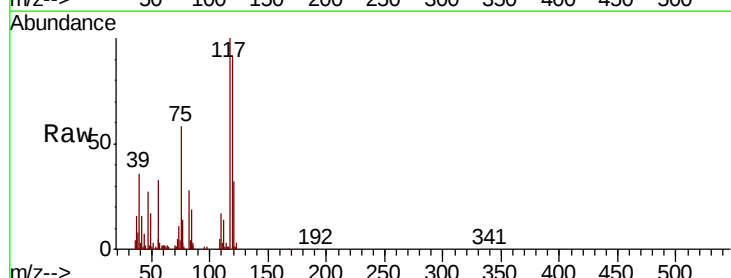
Manual Integrations
APPROVED

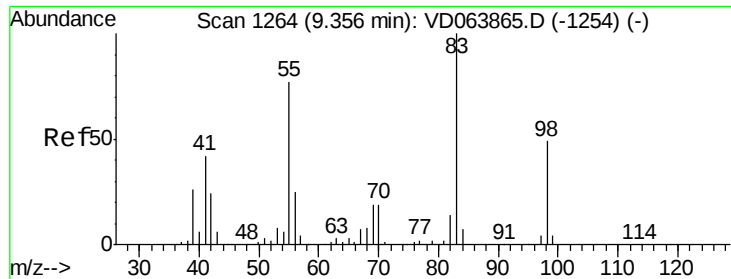
MMDadoda
10/15/2019 4:13:59 PM



#38
Carbon Tetrachloride
Concen: 51.099 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.8	70.8	106.2
121	32.2	21.4	32.0





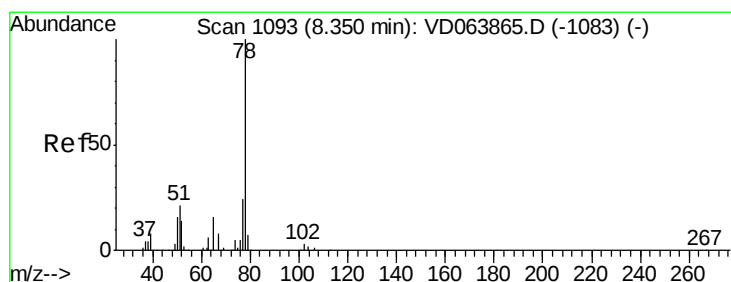
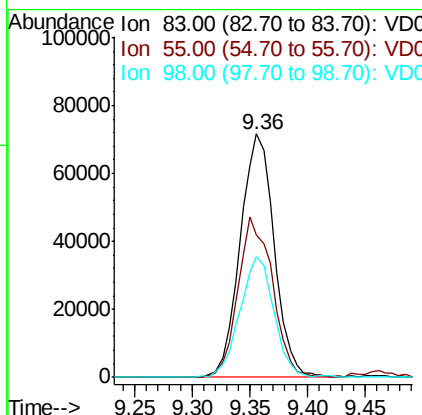
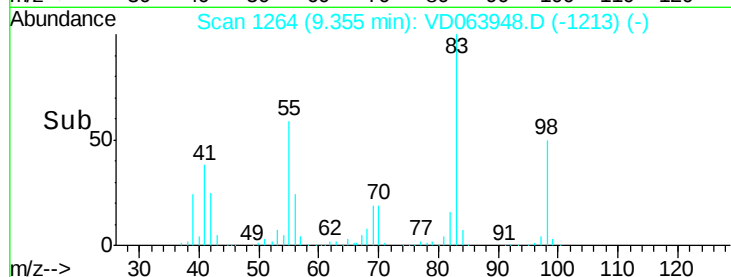
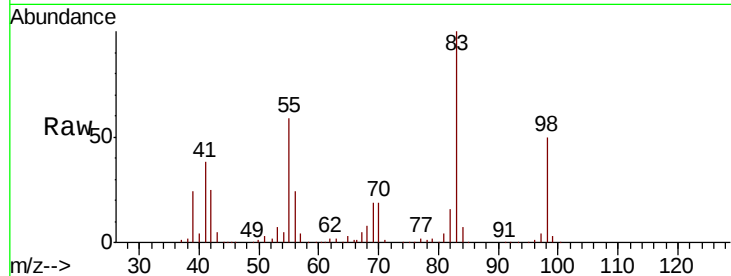
#39
Methvlcvclohexane
Concen: 49.688 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100	146885		
55	58.5	61.3	91.9#	
98	49.7	39.3	58.9	

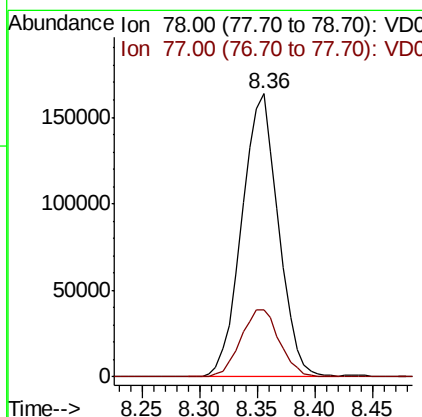
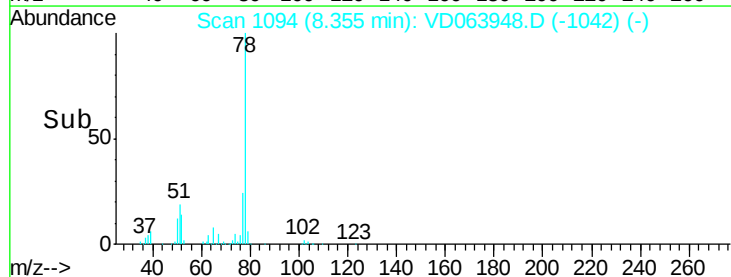
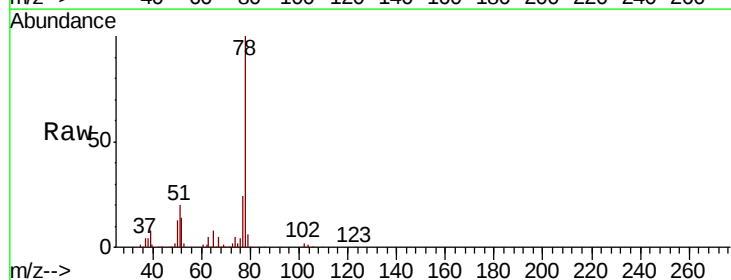
Manual Integrations
APPROVED

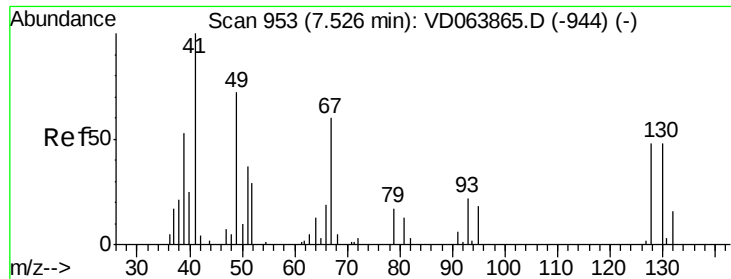
MMDadoda
10/15/2019 4:13:59 PM



#40
Benzene
Concen: 52.283 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	360218		
77	23.6	19.0	28.6	





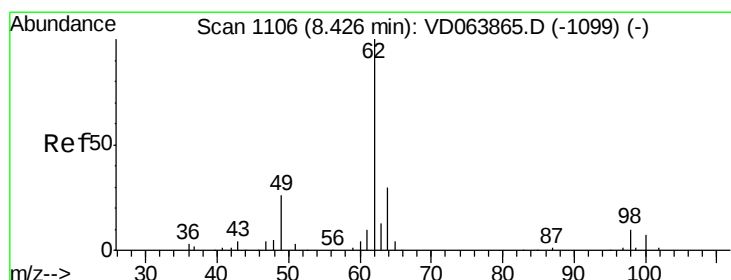
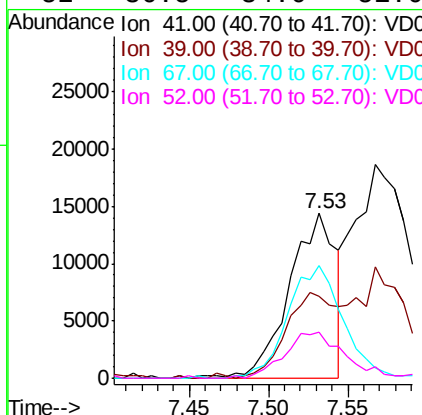
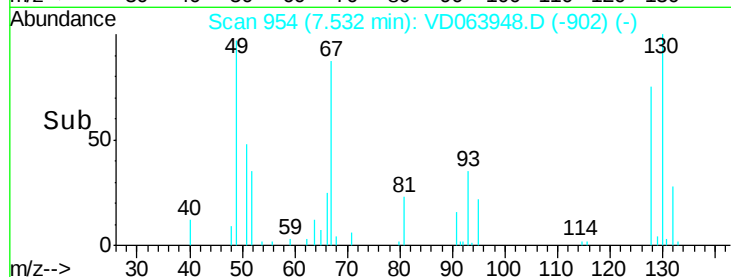
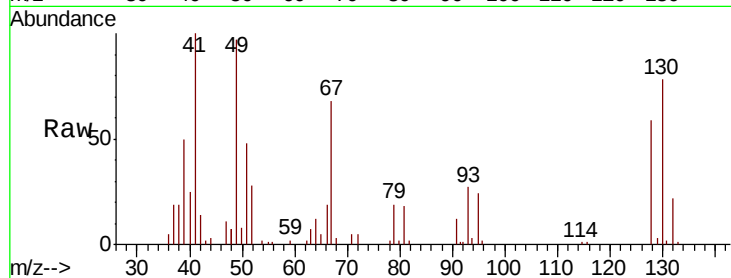
#41
Methacrylonitrile
Concen: 52.755 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.3	52.6	78.8
67	81.2	74.2	111.2
52	36.5	34.0	51.0

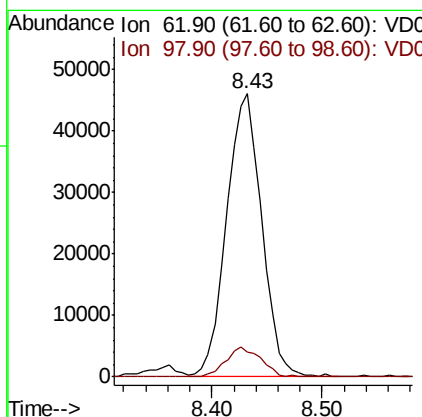
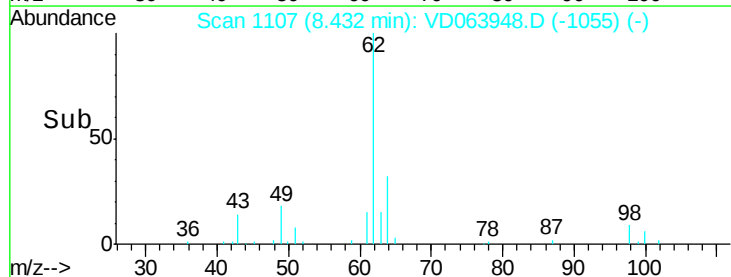
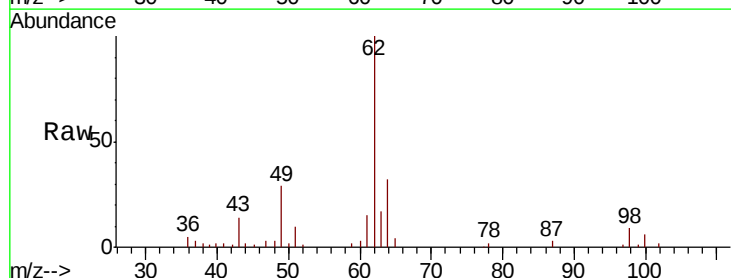
Manual Integrations
APPROVED

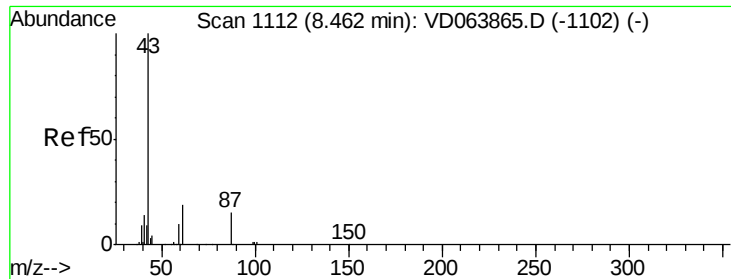
MMDadoda
10/15/2019 4:13:59 PM



#42
1,2-Dichloroethane
Concen: 51.661 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.0





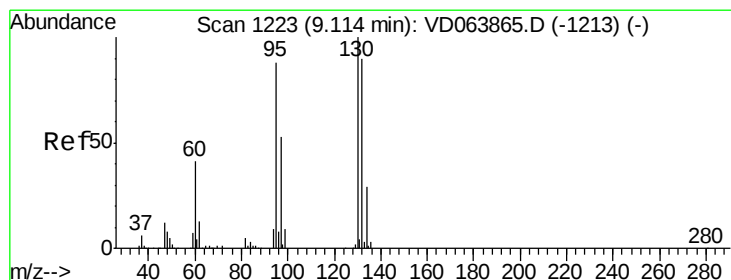
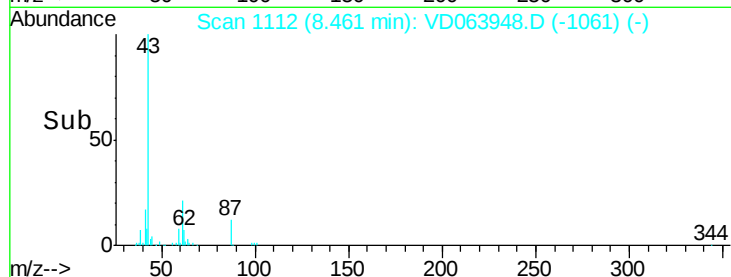
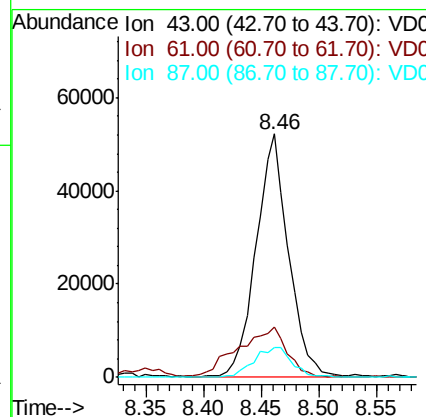
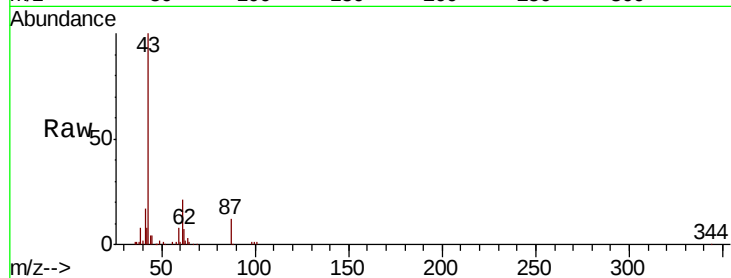
#43
Isopropyl Acetate
Concen: 50.941 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.3	25.7	38.5
87	14.3	11.6	17.4

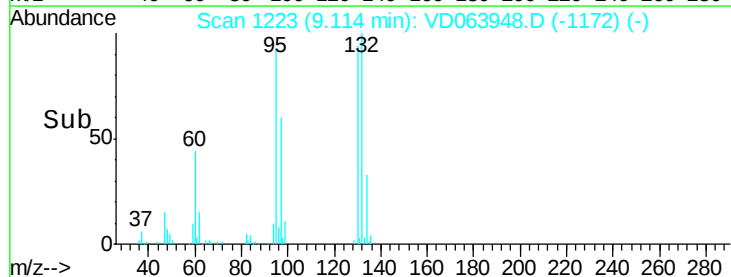
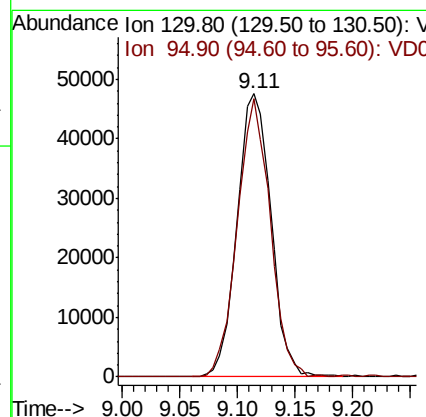
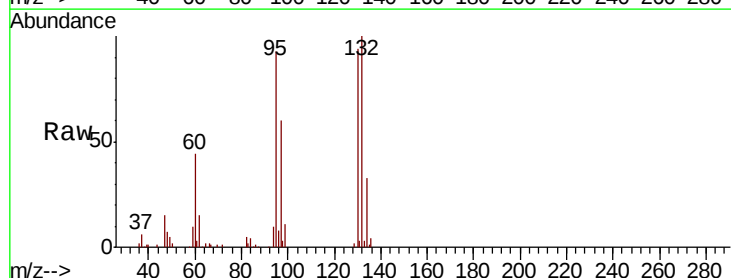
Manual Integrations
APPROVED

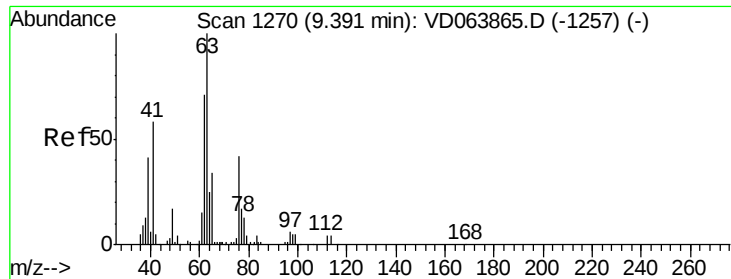
MMDadoda
10/15/2019 4:13:59 PM



#44
Trichloroethene
Concen: 48.765 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	175.6





#45

1,2-Dichloropropane

Concen: 53.196 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 89709

Ion Ratio Lower Upper

63 100

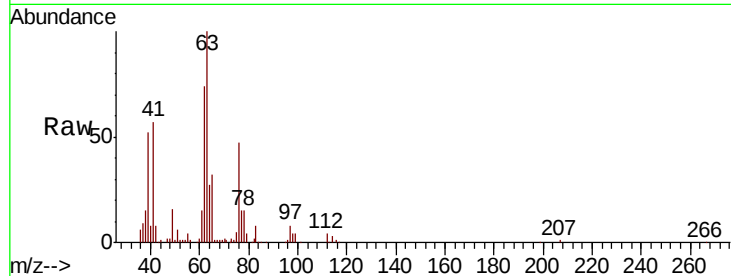
65 32.4 27.3 40.9

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

9.39

50000

40000

30000

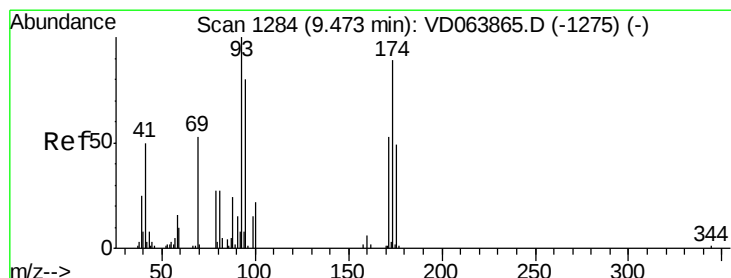
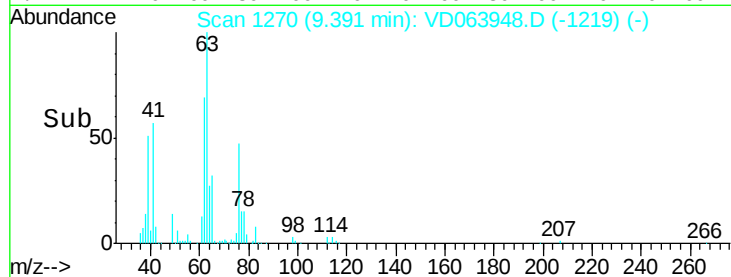
20000

10000

0

Time-->

9.30 9.40 9.50



#46

Dibromomethane

Concen: 54.924 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

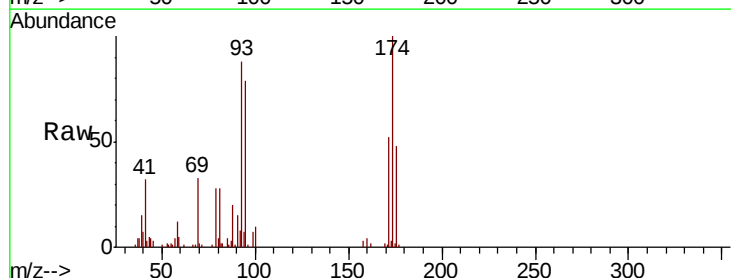
Tgt Ion: 93 Resp: 52750

Ion Ratio Lower Upper

93 100

95 82.2 66.0 99.0

174 107.2 83.4 125.0



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

9.48

30000

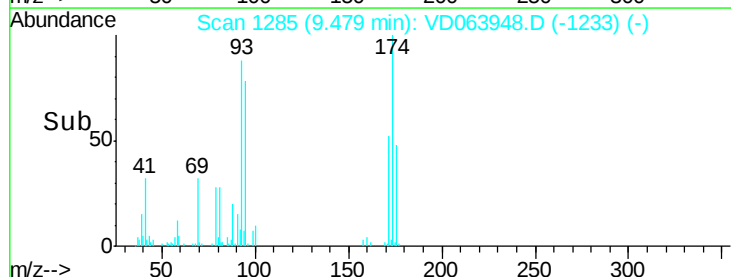
20000

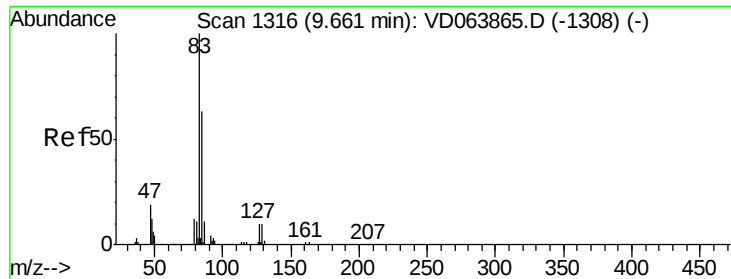
10000

0

Time-->

9.40 9.45 9.50 9.55





#47

Bromodichloromethane

Concen: 52.144 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

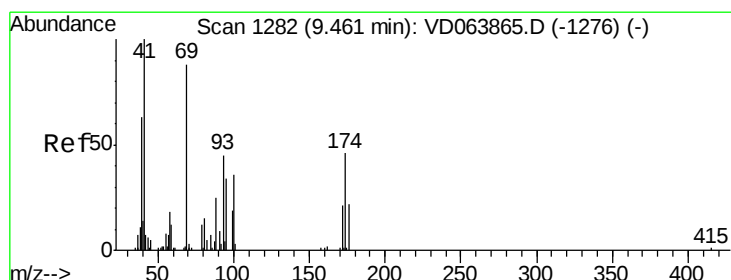
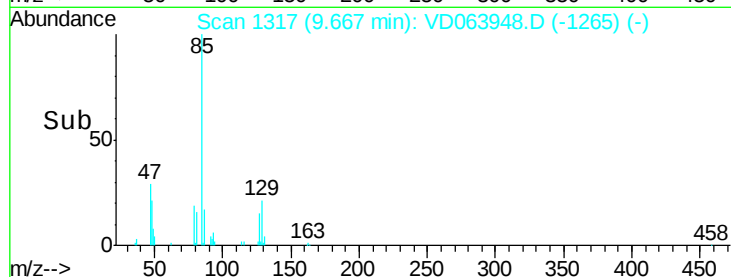
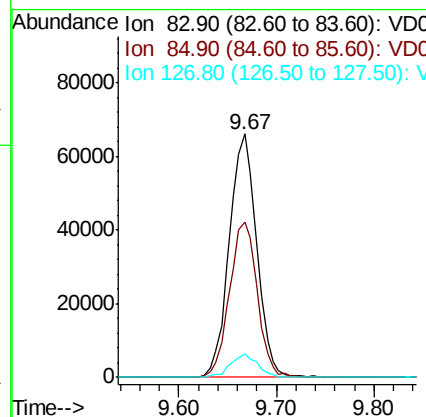
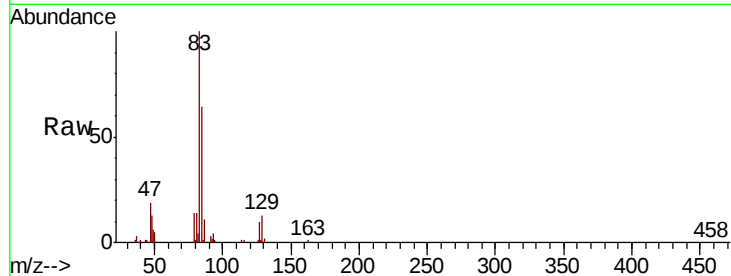
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	128938
Ion Ratio	Lower	Upper	
83	100		
85	63.8	50.2	75.2
127	9.5	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#48

Methyl methacrylate

Concen: 50.289 ug/l

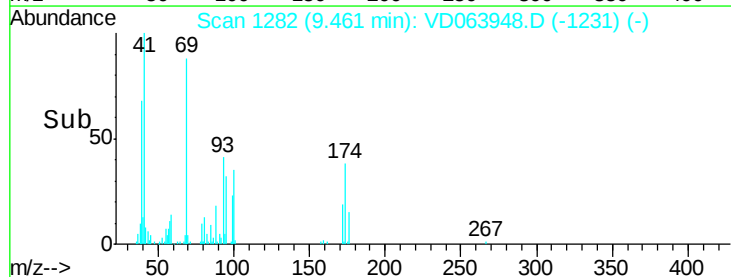
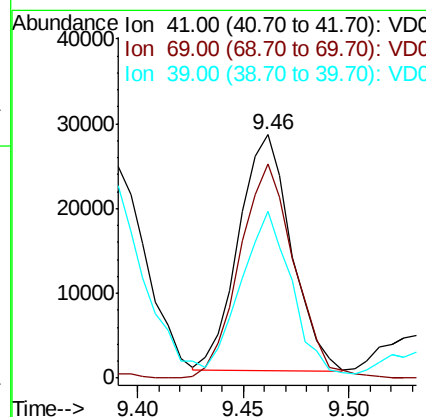
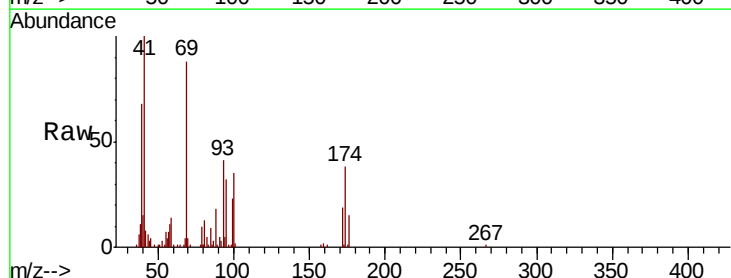
RT: 9.46 min Scan# 1282

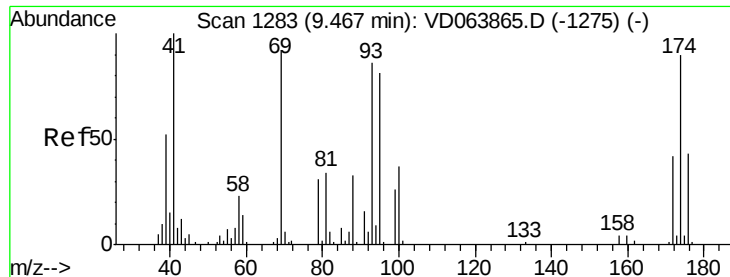
Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Tgt Ion:	41	Resp:	48582
Ion Ratio	Lower	Upper	
41	100		
69	93.9	75.1	112.7
39	67.9	50.2	75.2





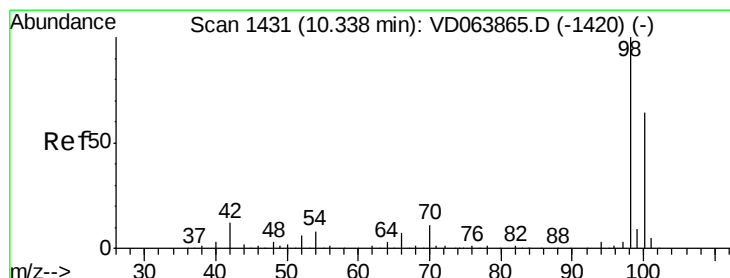
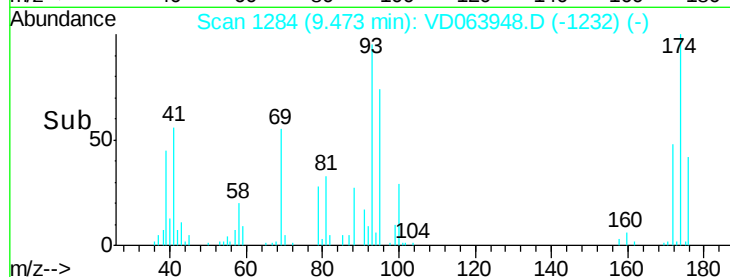
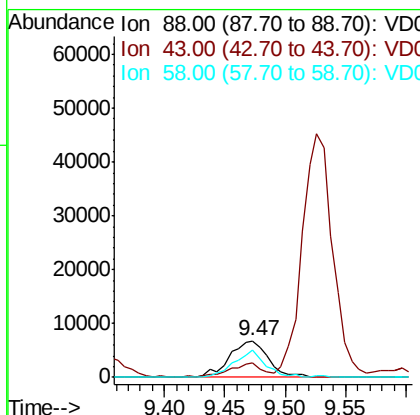
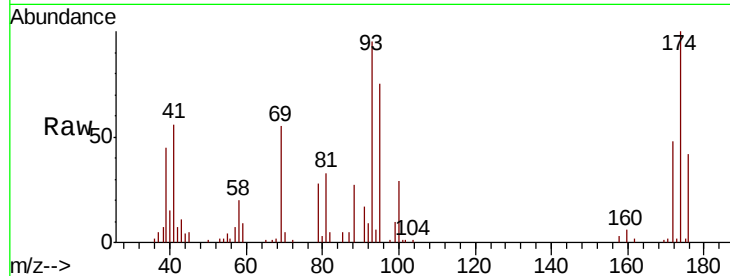
#49
1,4-Dioxane
Concen: 1146.411 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.1	27.6	41.4
58	60.9	54.1	81.1

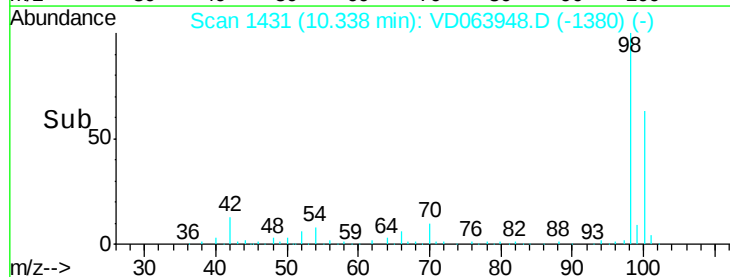
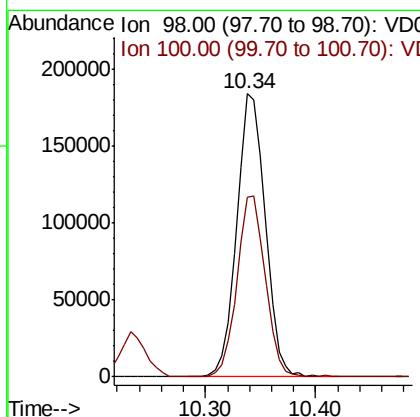
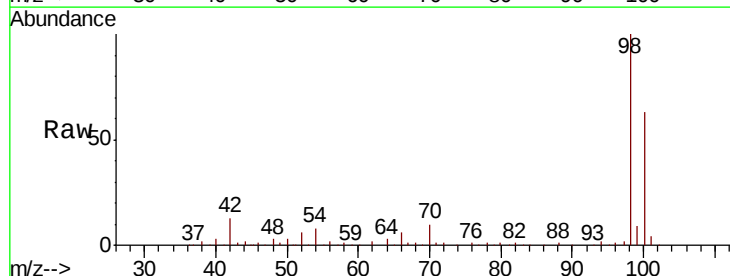
Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#50
Toluene-d8
Concen: 51.439 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 274.076 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 286596

Ion Ratio Lower Upper

43 100

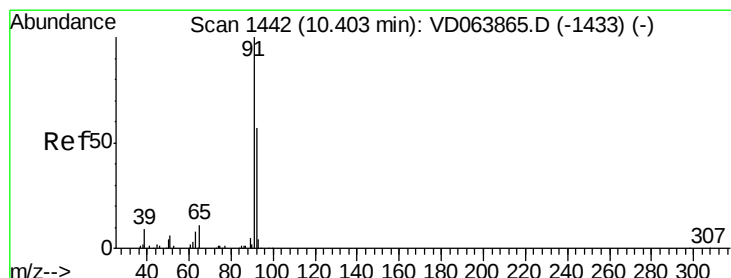
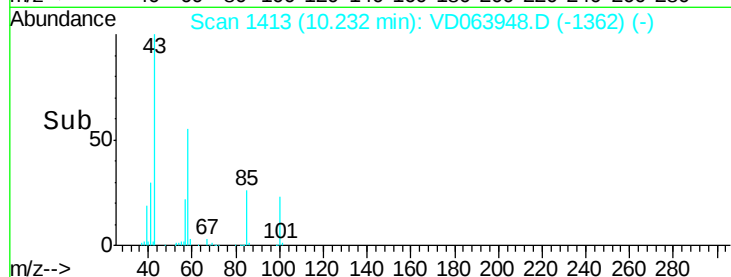
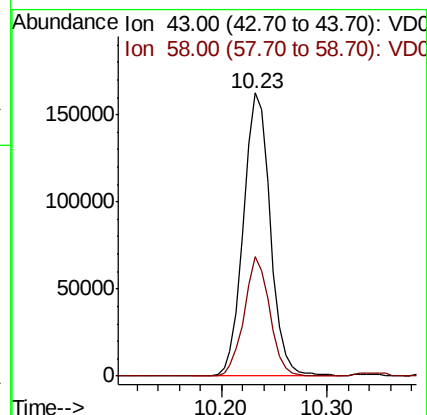
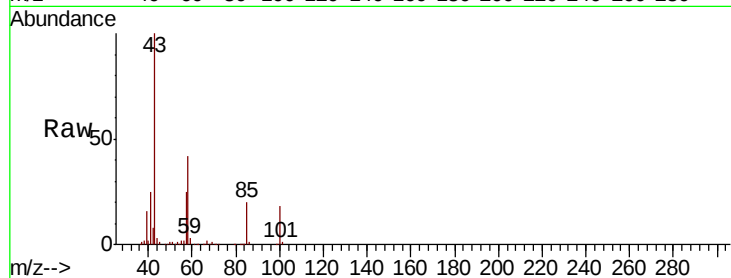
58 40.1 33.0 49.4

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



#52

Toluene

Concen: 52.758 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD063948.D

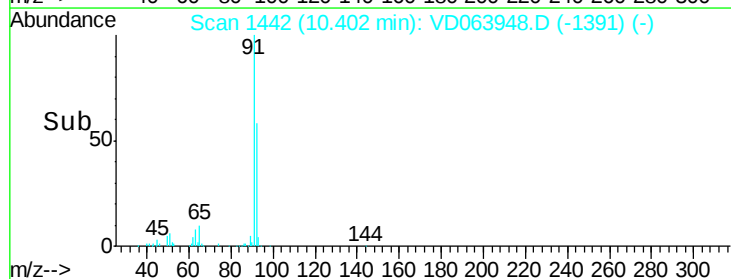
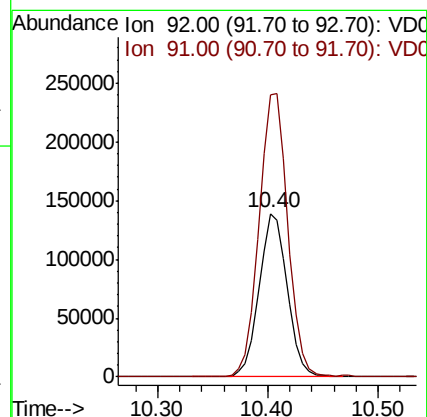
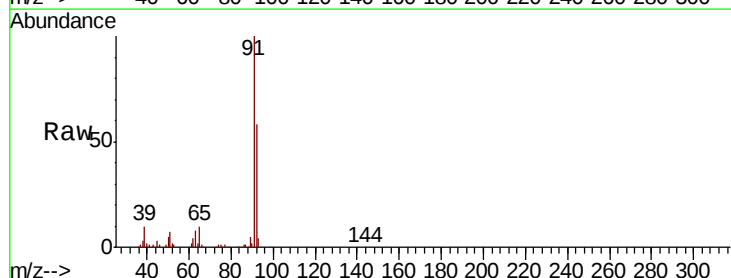
Acq: 11 Oct 2019 20:26

Tgt Ion: 92 Resp: 249530

Ion Ratio Lower Upper

92 100

91 176.6 139.5 209.3





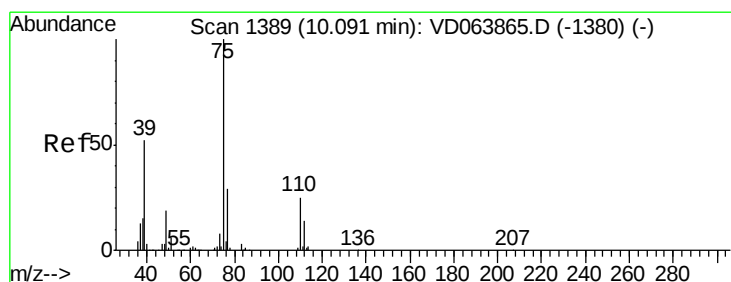
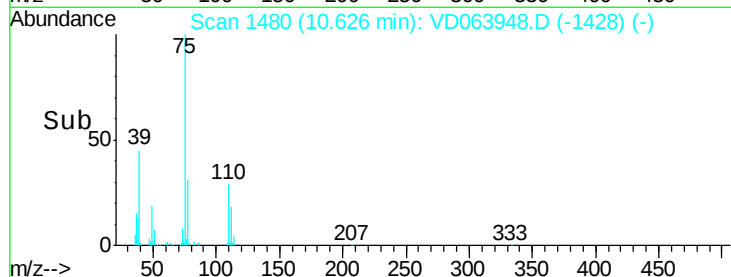
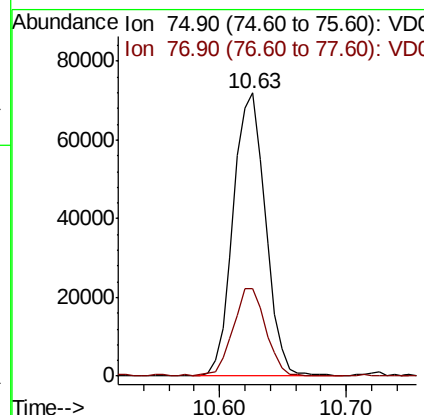
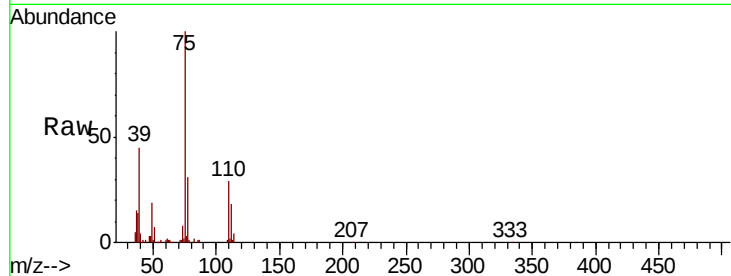
#53
 t-1,3-Dichloropropene
 Concen: 52.594 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 75 Resp: 126905
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.8 34.2

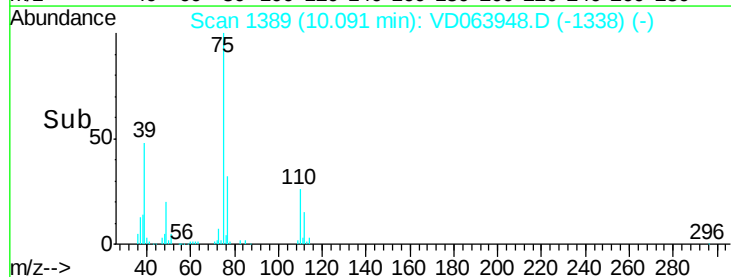
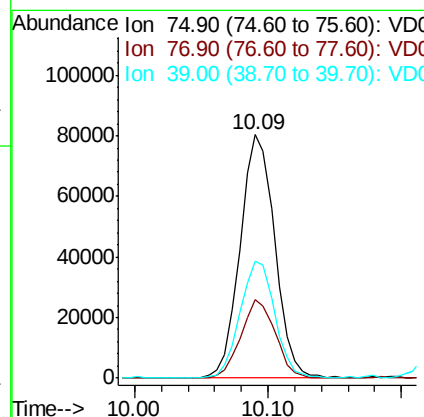
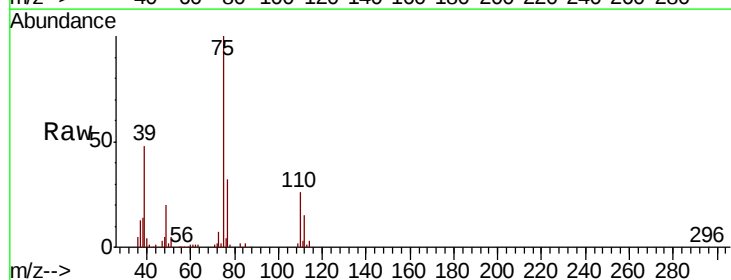
Manual Integrations
 APPROVED

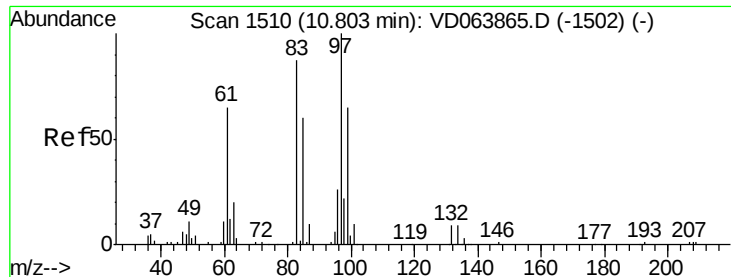
MMDadoda
 10/15/2019 4:13:59 PM



#54
 cis-1,3-Dichloropropene
 Concen: 51.999 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion: 75 Resp: 144427
 Ion Ratio Lower Upper
 75 100
 77 32.2 23.2 34.8
 39 47.8 41.5 62.3





#55

1,1,2-Trichloroethane

Concen: 55.051 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 74653

Ion Ratio Lower Upper

97 100

83 86.1 69.7 104.5

85 55.8 48.1 72.1

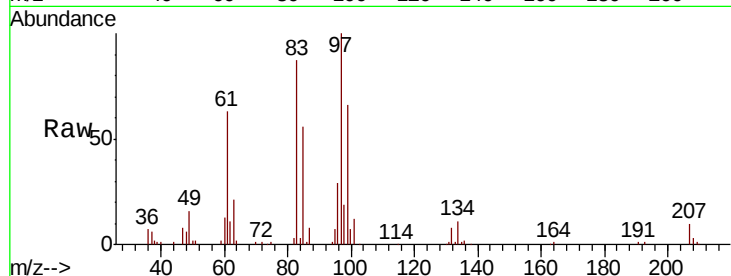
99 65.7 51.9 77.9

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



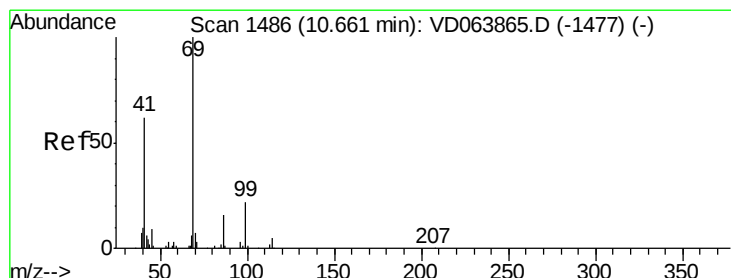
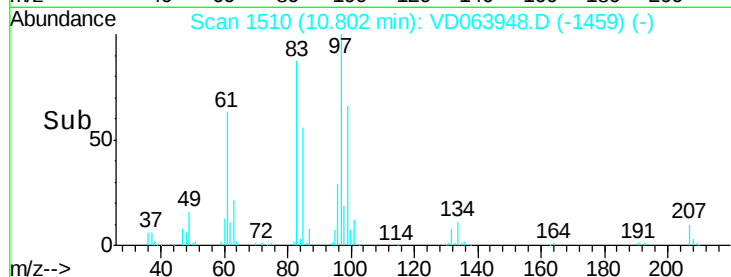
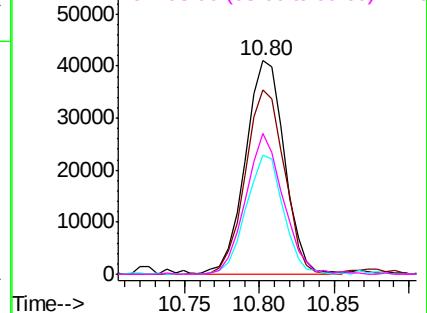
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 53.920 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

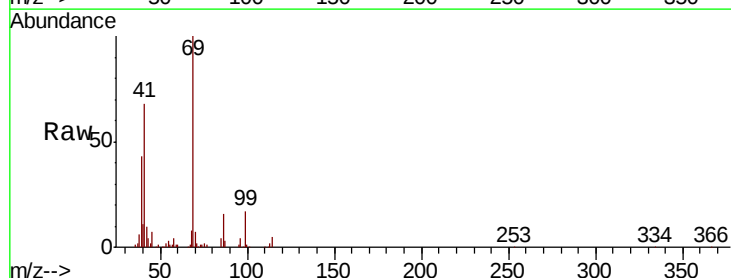
Tgt Ion: 69 Resp: 92594

Ion Ratio Lower Upper

69 100

41 65.8 51.3 76.9

39 38.7 28.0 42.0

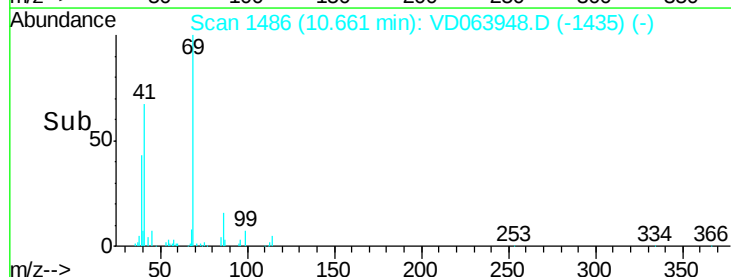
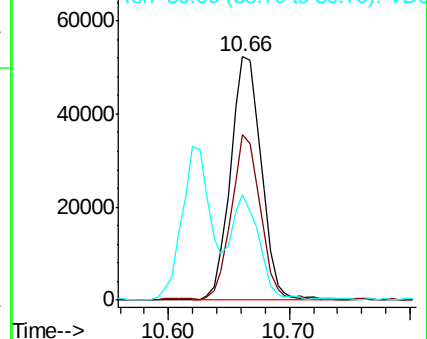


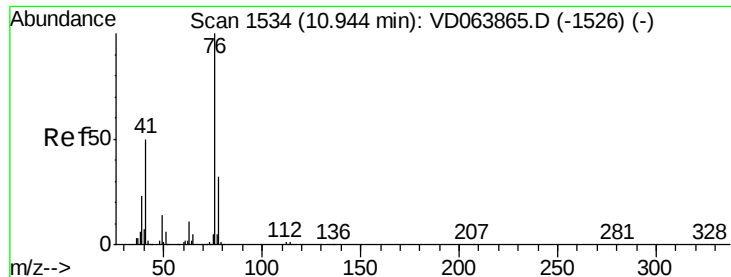
Abundance

Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





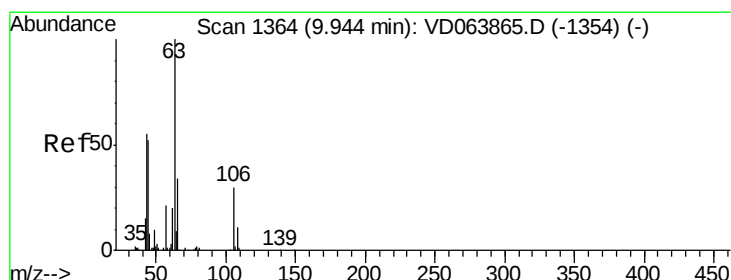
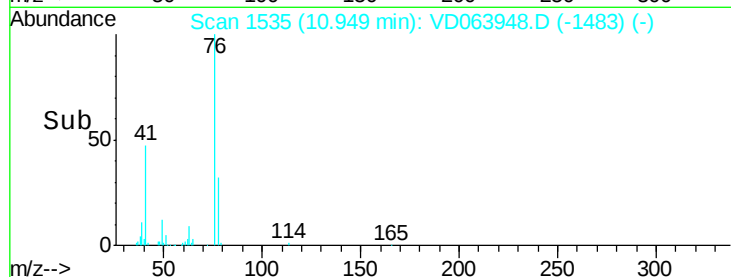
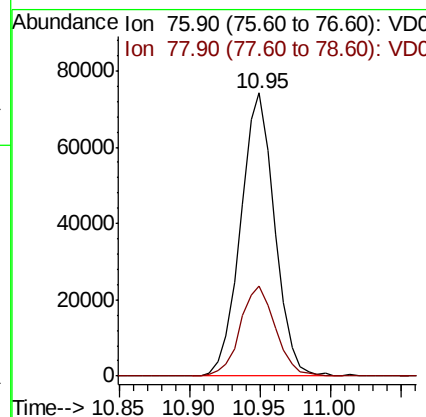
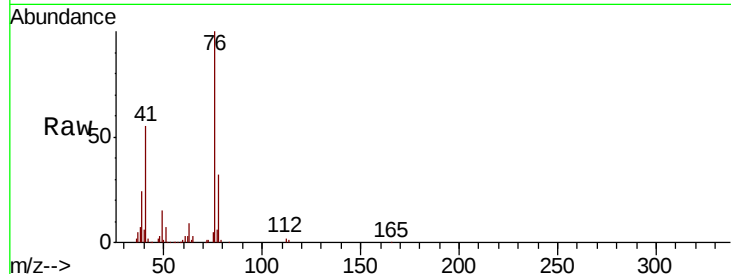
#57
 1,3-Dichloropropane
 Concen: 53.907 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 125073
 Ion Ratio Lower Upper
 76 100
 78 32.9 26.6 40.0

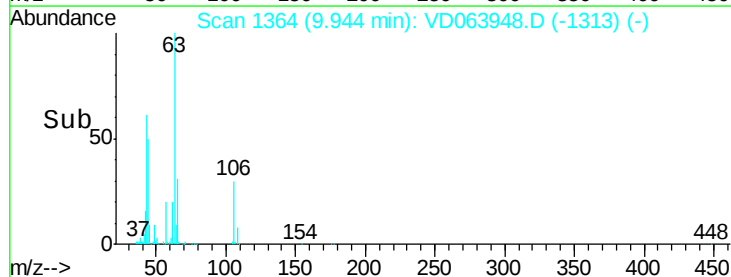
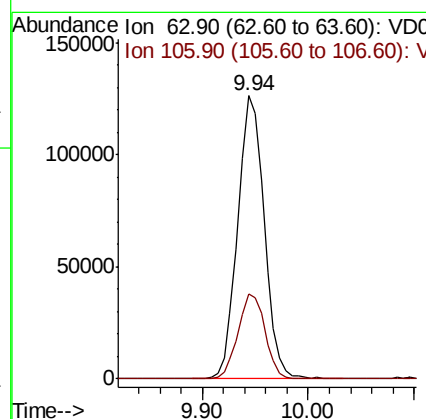
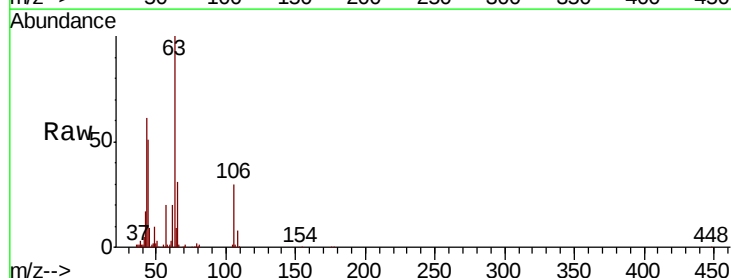
Manual Integrations
 APPROVED

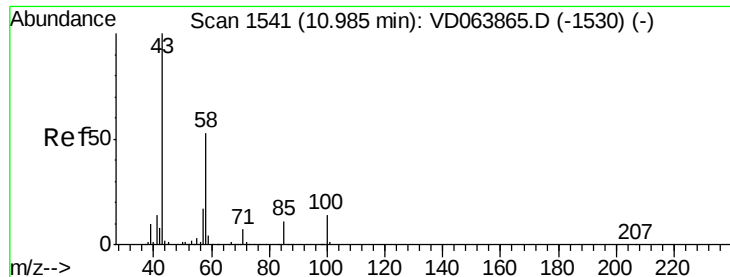
MMDadoda
 10/15/2019 4:13:59 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 297.030 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion: 63 Resp: 219251
 Ion Ratio Lower Upper
 63 100
 106 30.6 24.3 36.5





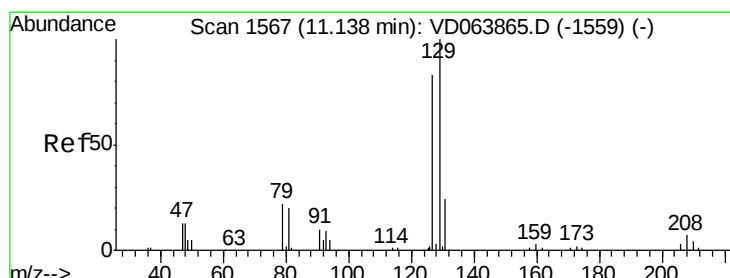
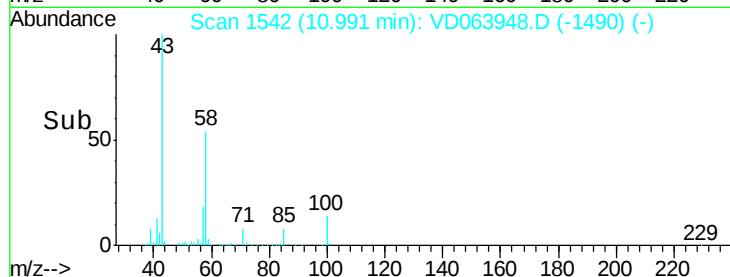
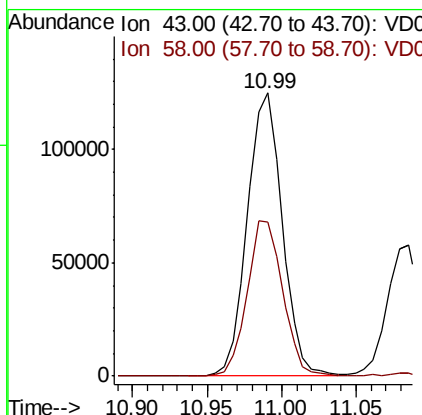
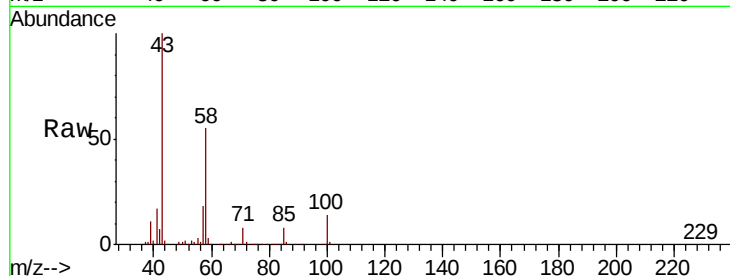
#59
2-Hexanone
Concen: 267.535 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 202368
Ion Ratio Lower Upper
43 100
58 55.7 27.7 83.0

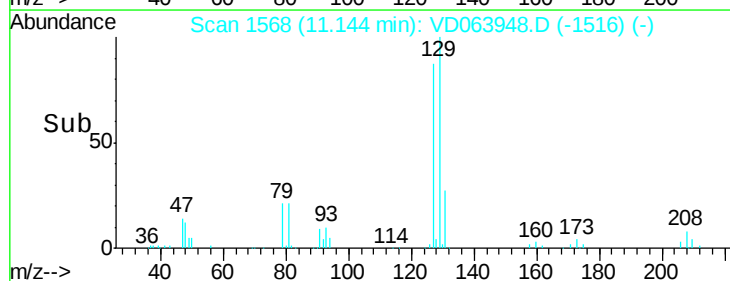
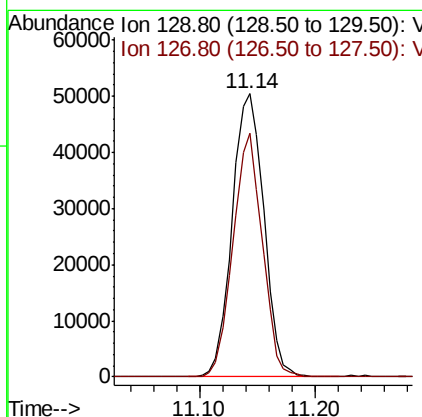
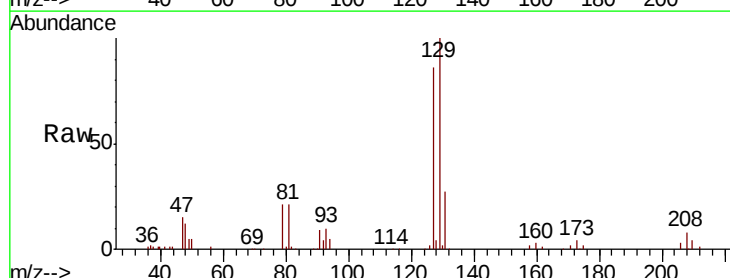
Manual Integrations
APPROVED

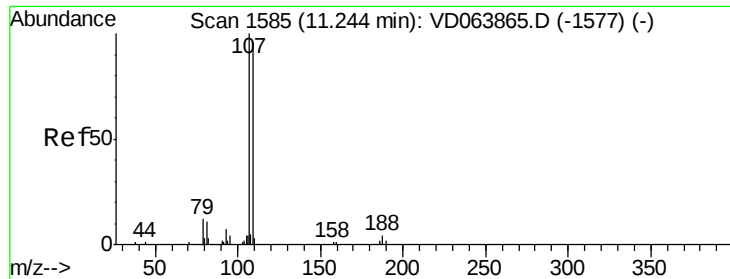
MMDadoda
10/15/2019 4:13:59 PM



#60
Dibromochloromethane
Concen: 54.413 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion: 129 Resp: 96063
Ion Ratio Lower Upper
129 100
127 79.5 39.9 119.6





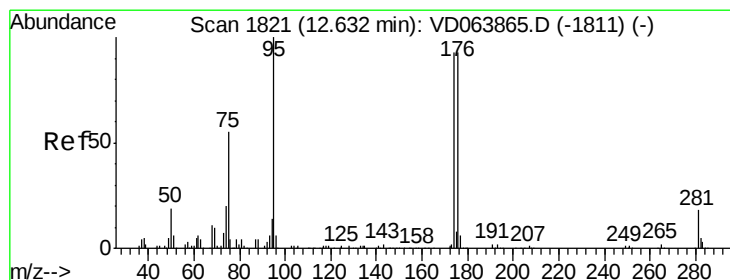
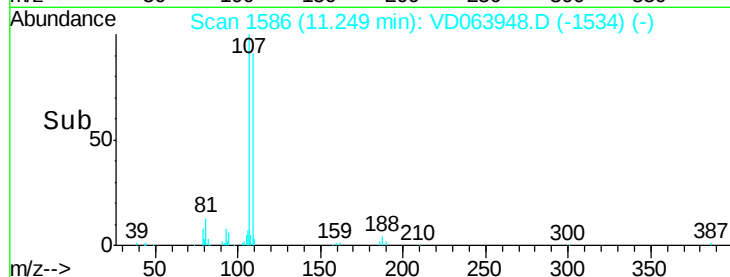
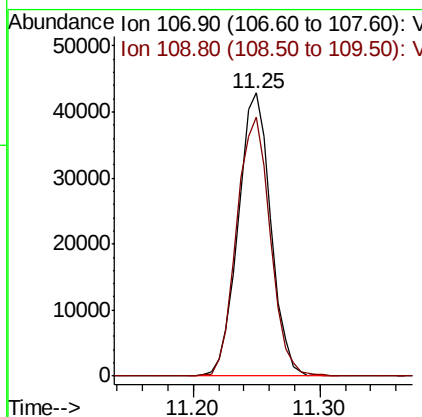
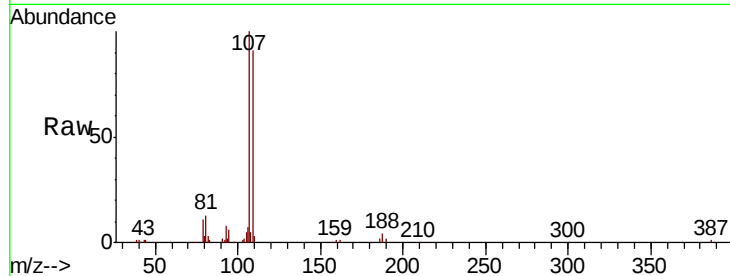
#61
 1,2-Dibromoethane
 Concen: 58.195 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 107 Resp: 76506
 Ion Ratio Lower Upper
 107 100
 109 94.2 75.2 112.8

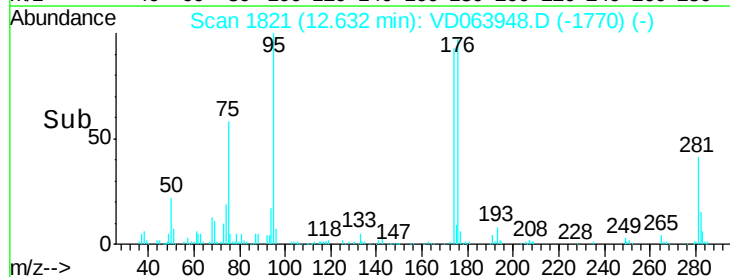
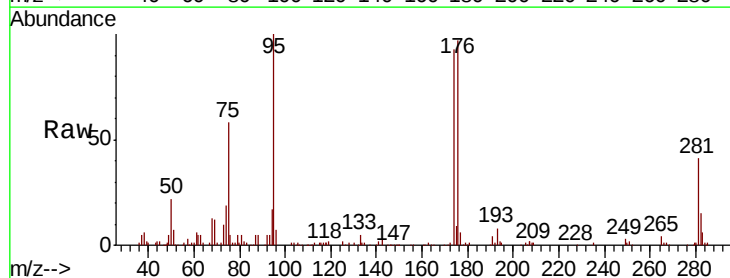
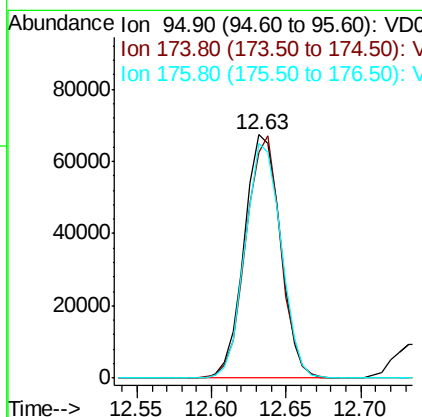
Manual Integrations
 APPROVED

MMDadoda
 10/15/2019 4:13:59 PM



#62
 4-Bromofluorobenzene
 Concen: 49.941 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion: 95 Resp: 113194
 Ion Ratio Lower Upper
 95 100
 174 95.7 0.0 186.4
 176 95.7 0.0 184.2





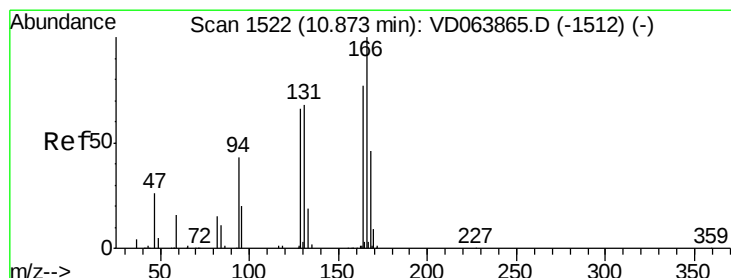
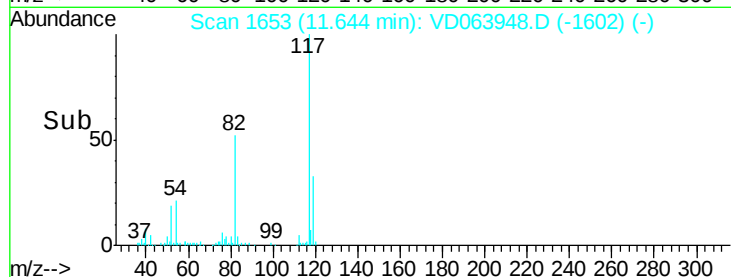
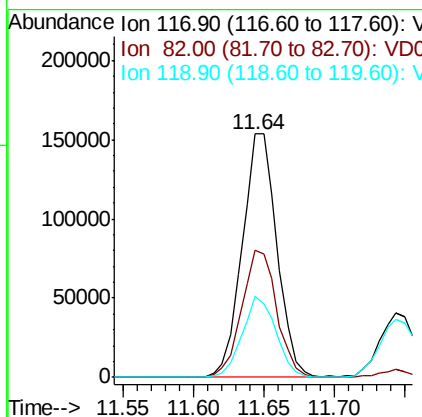
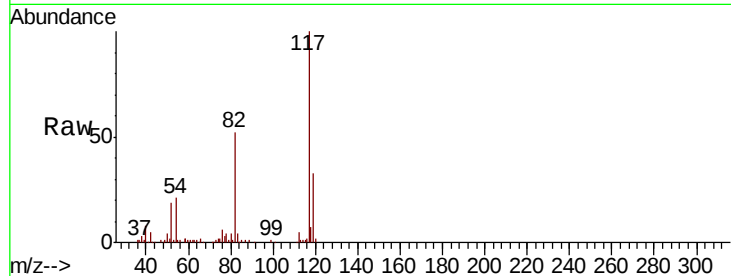
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.8	64.2
119	33.5	24.4	36.6

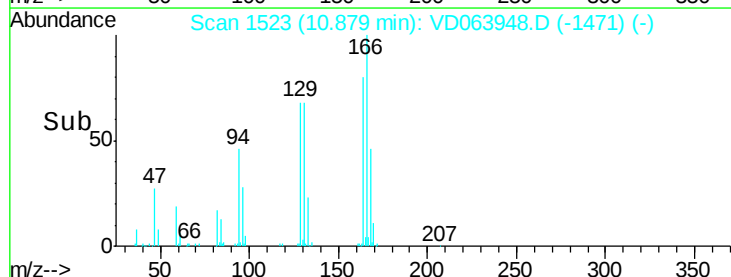
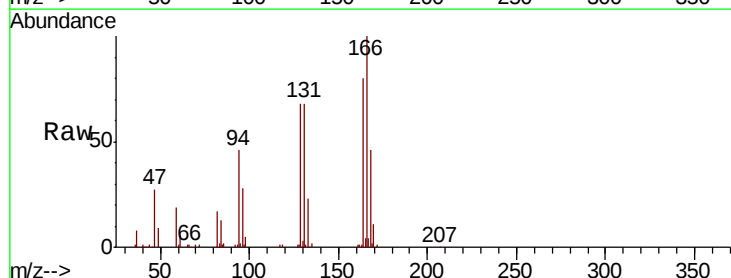
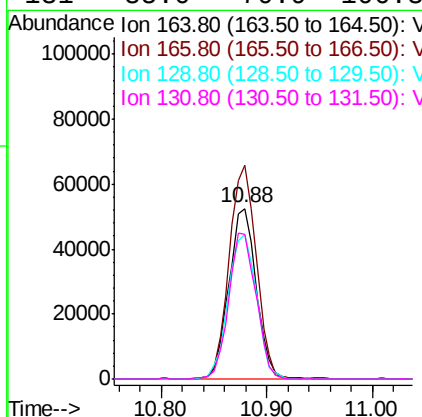
Manual Integrations
APPROVED

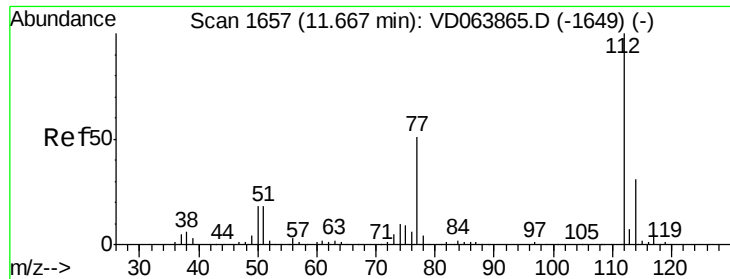
MMDadoda
10/15/2019 4:13:59 PM



#64
Tetrachloroethene
Concen: 52.042 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	103.8	155.6
129	85.0	68.9	103.3
131	85.0	70.9	106.3





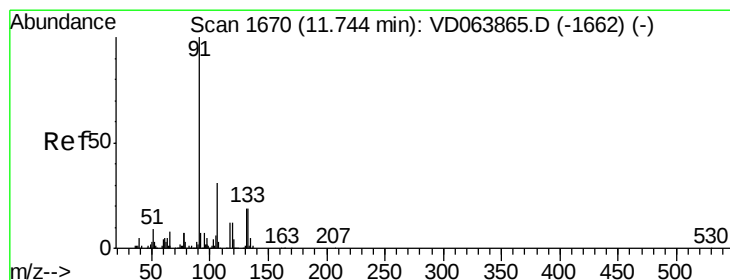
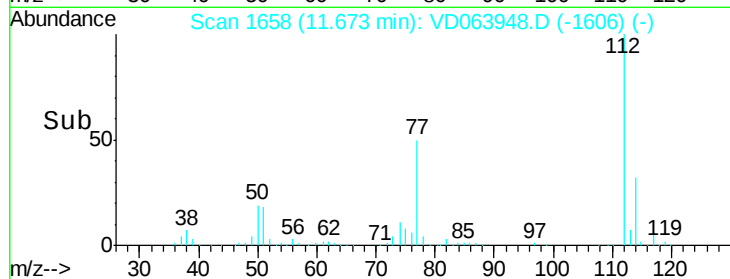
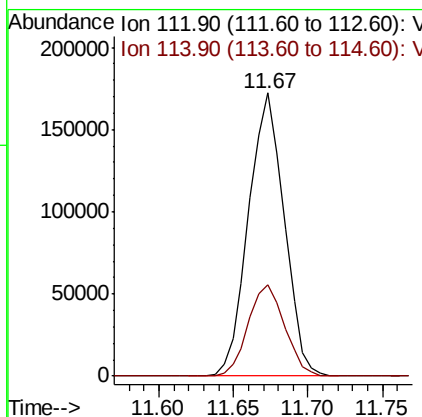
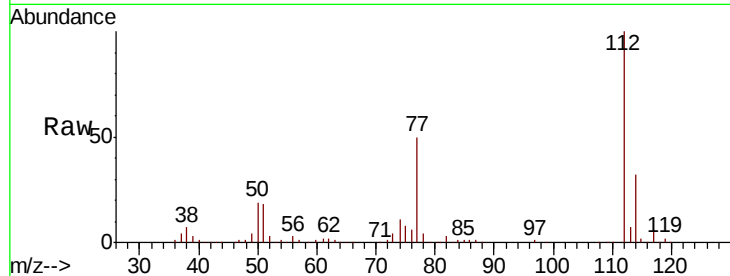
#65
Chlorobenzene
Concen: 53.613 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 285610
Ion Ratio Lower Upper
112 100
114 32.3 25.1 37.7

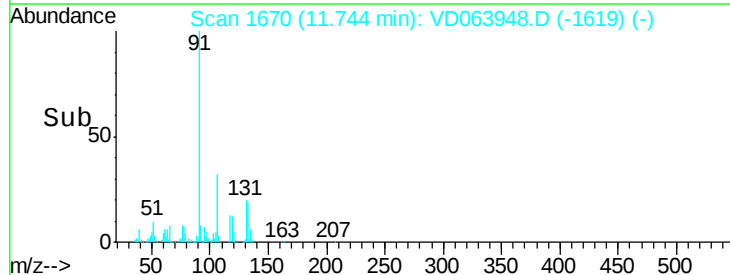
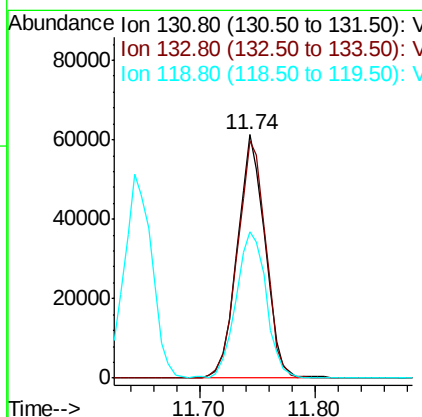
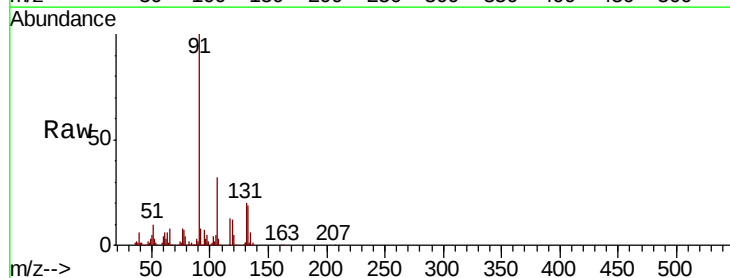
Manual Integrations
APPROVED

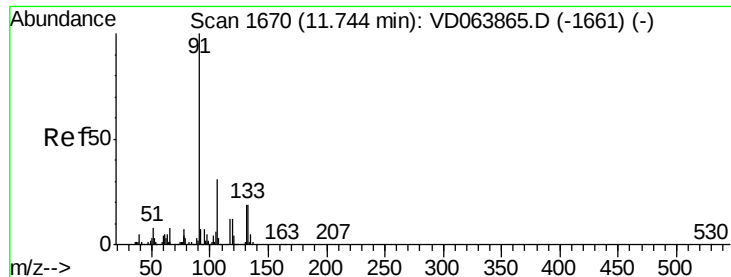
MMDadoda
10/15/2019 4:13:59 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.774 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion:131 Resp: 101631
Ion Ratio Lower Upper
131 100
133 99.9 48.9 146.7
119 65.6 32.6 97.8





#67

Ethyl Benzene

Concen: 52.265 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 502061

Ion Ratio Lower Upper

91 100

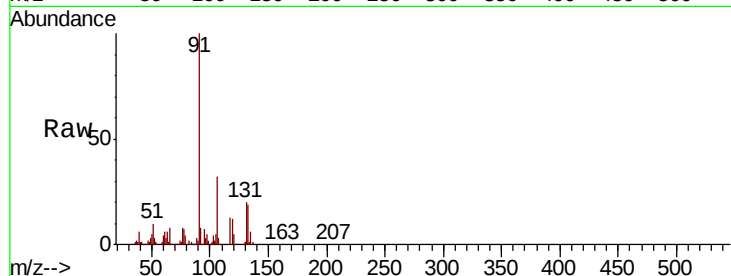
106 32.1 24.6 37.0

Manual Integrations

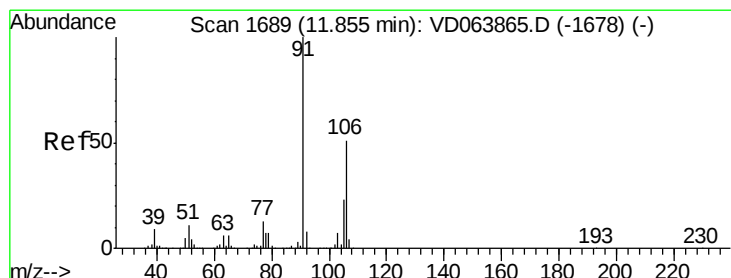
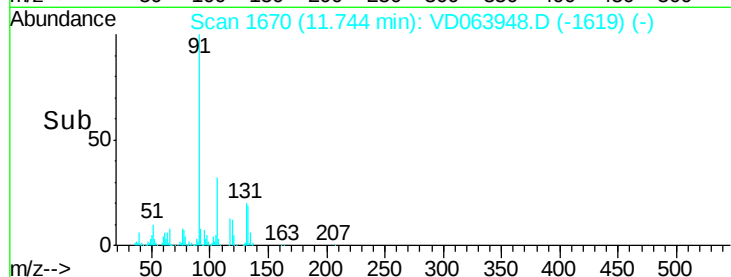
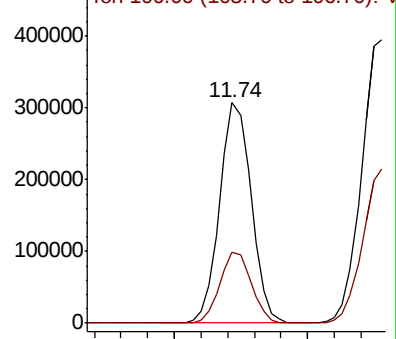
APPROVED

MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC



#68

m/p-Xylenes

Concen: 107.536 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063948.D

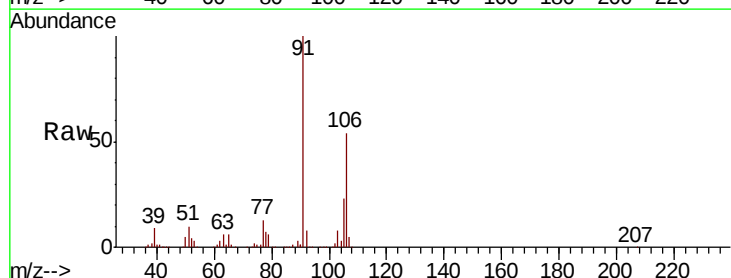
Acq: 11 Oct 2019 20:26

Tgt Ion: 106 Resp: 398717

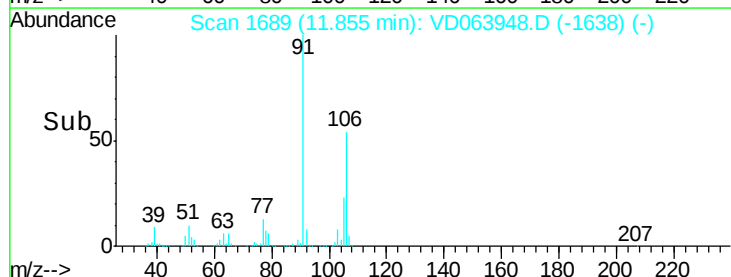
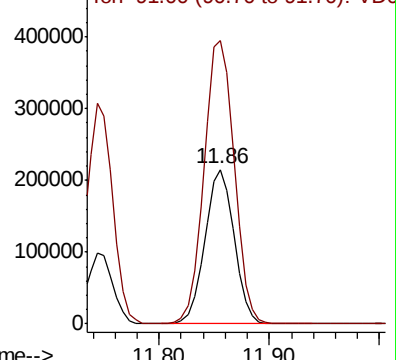
Ion Ratio Lower Upper

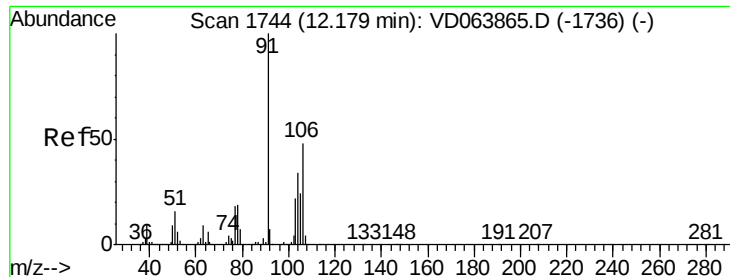
106 100

91 191.1 154.8 232.2



Abundance Ion 106.00 (105.70 to 106.70): VDC





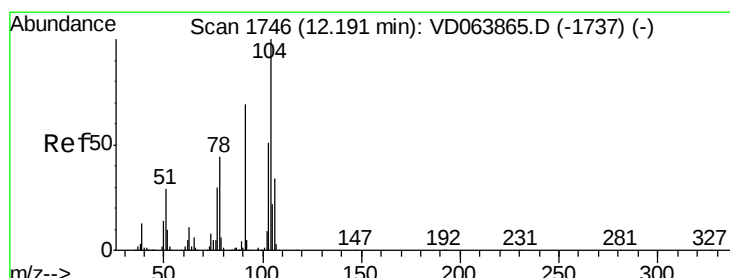
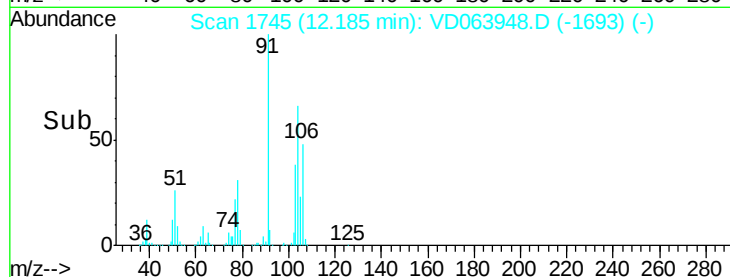
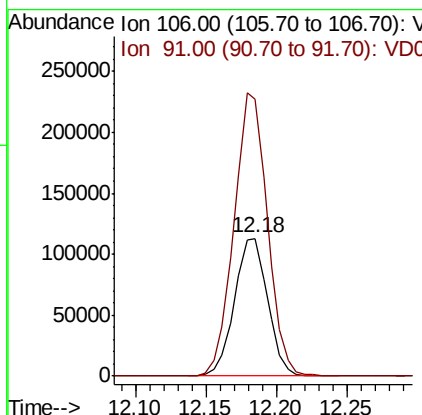
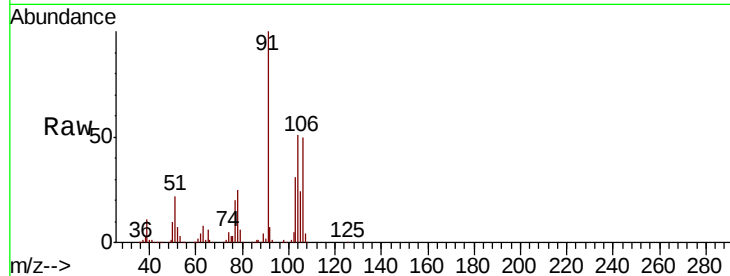
#69
o-Xylene
Concen: 52.267 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 185565
Ion Ratio Lower Upper
106 100
91 206.7 103.9 311.7

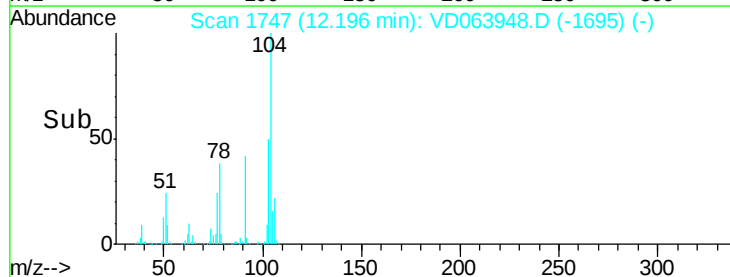
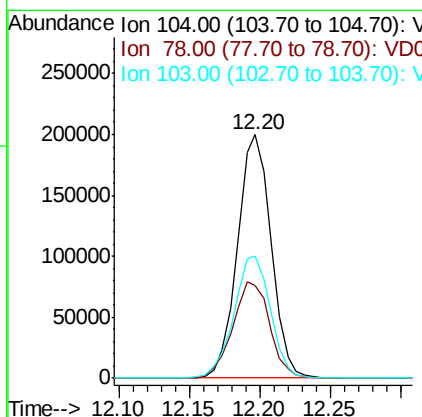
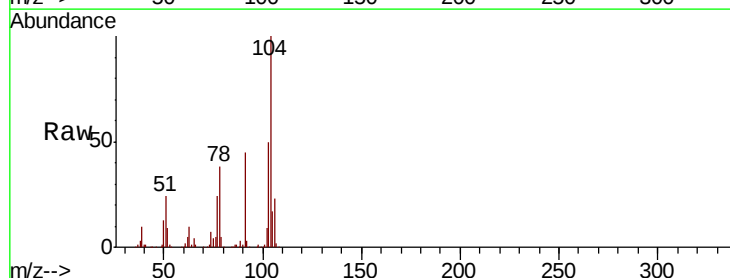
Manual Integrations
APPROVED

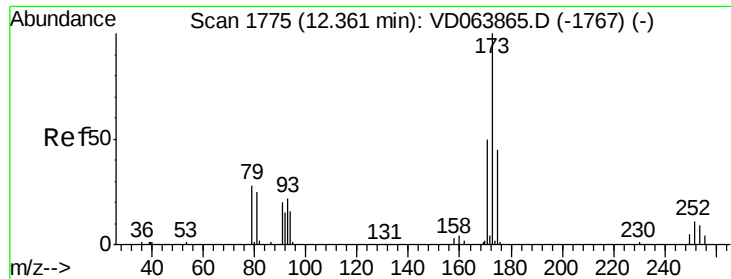
MMDadoda
10/15/2019 4:13:59 PM



#70
Styrene
Concen: 55.362 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion:104 Resp: 332736
Ion Ratio Lower Upper
104 100
78 43.5 37.0 55.4
103 54.4 44.2 66.4





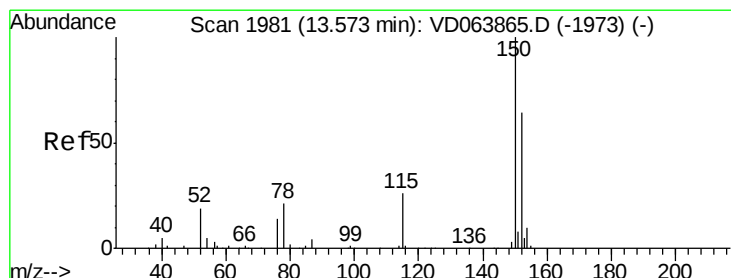
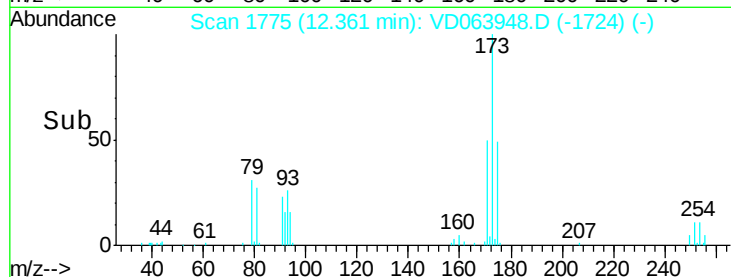
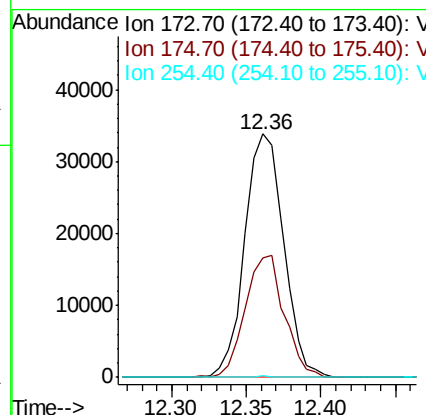
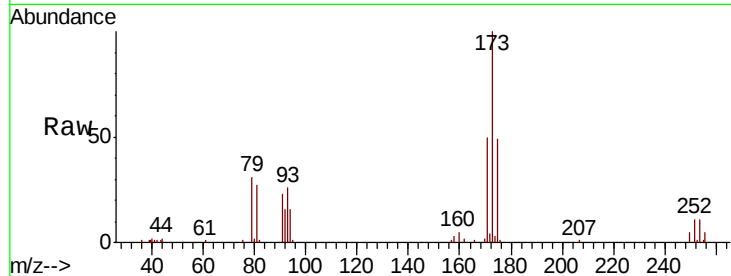
#71
Bromoform
Concen: 58.066 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.6	74.0
254	0.1	0.0	0.0#

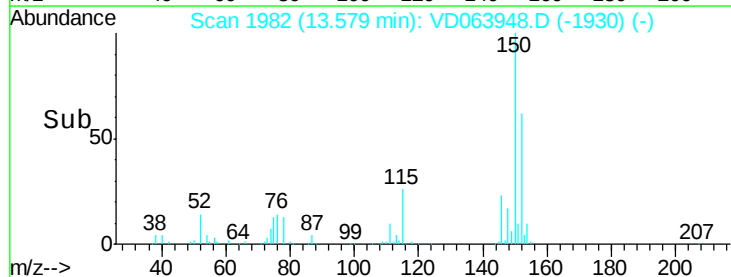
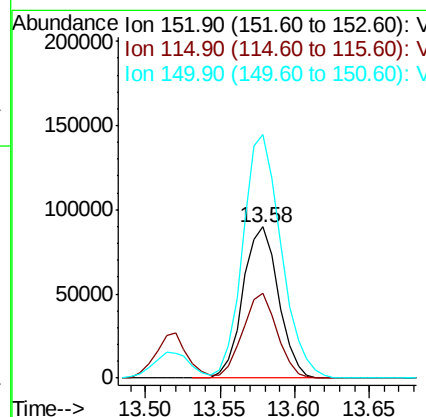
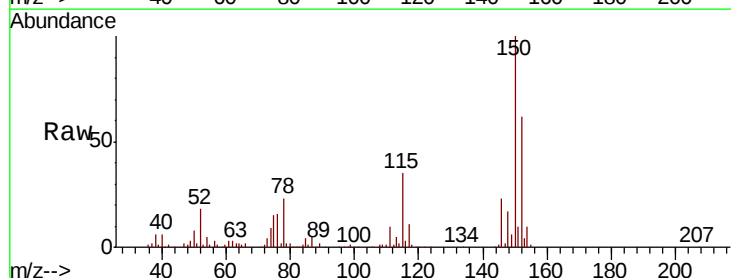
Manual Integrations
APPROVED

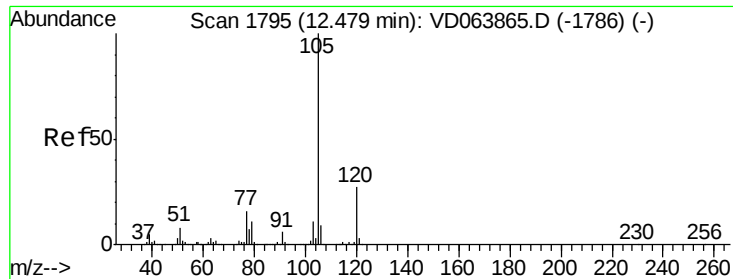
MMDadoda
10/15/2019 4:13:59 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	25.9	77.7
150	173.7	0.0	344.2





#73

Isopropylbenzene

Concen: 49.609 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 493024

Ion Ratio Lower Upper

105 100

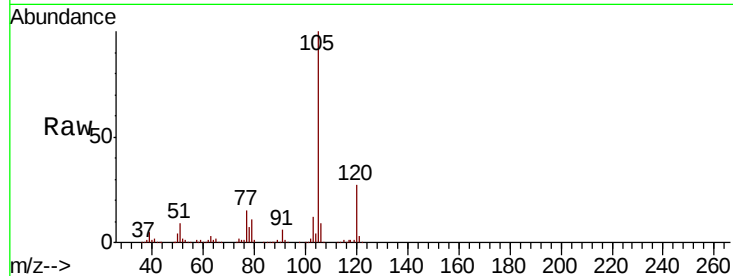
120 27.0 13.3 39.8

Manual Integrations

APPROVED

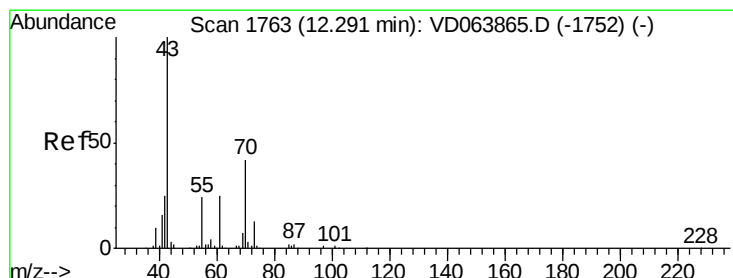
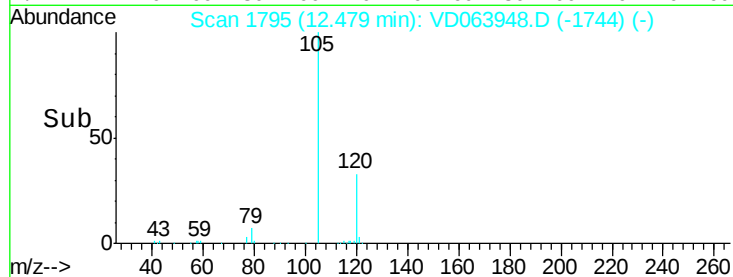
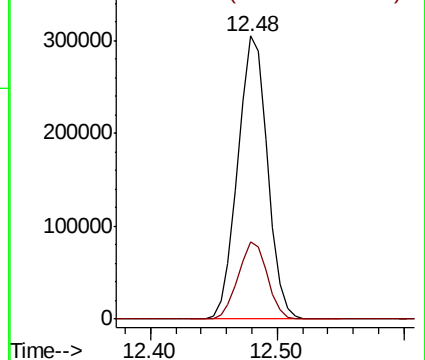
MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 48.535 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Tgt Ion: 43 Resp: 103852

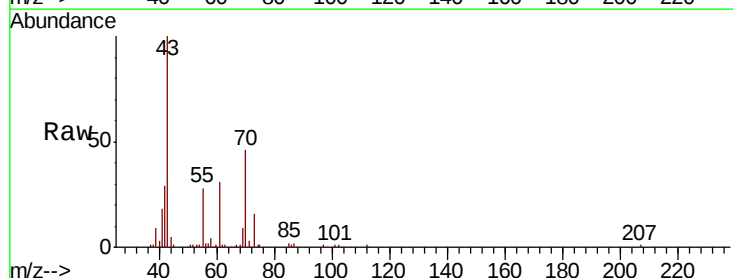
Ion Ratio Lower Upper

43 100

70 44.4 35.8 53.6

55 26.5 19.4 29.0

61 26.6 20.4 30.6

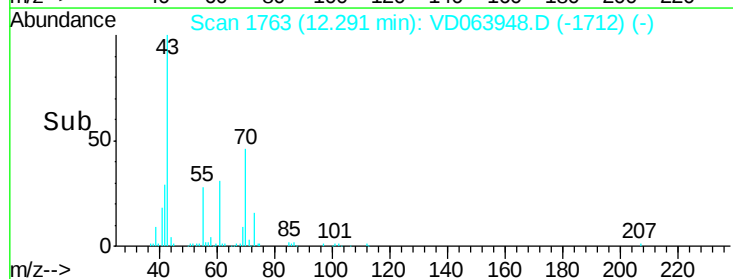
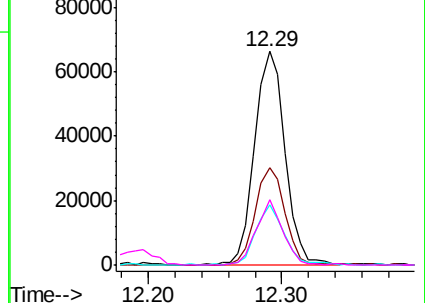


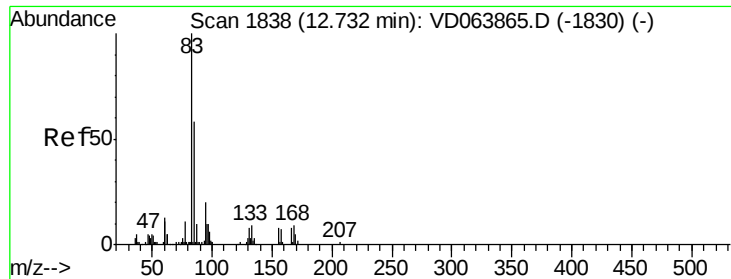
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 51.845 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

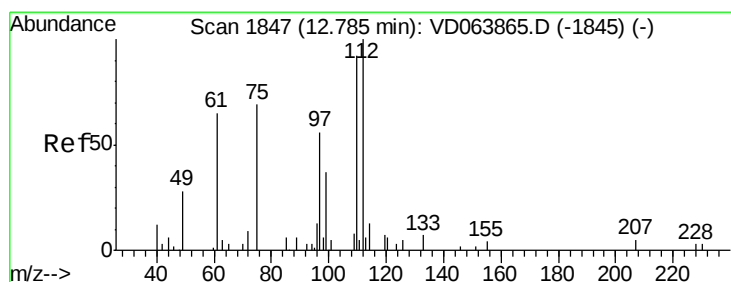
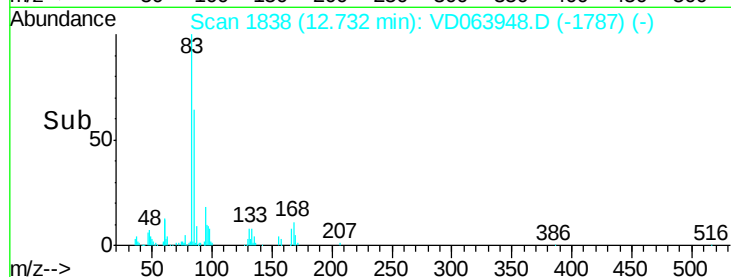
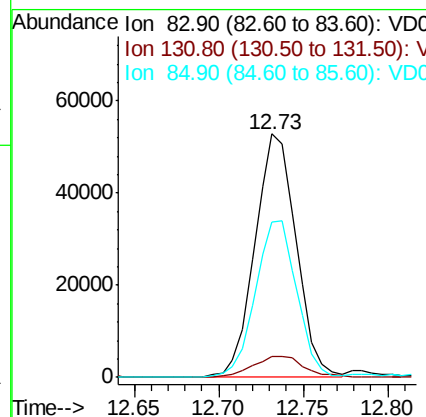
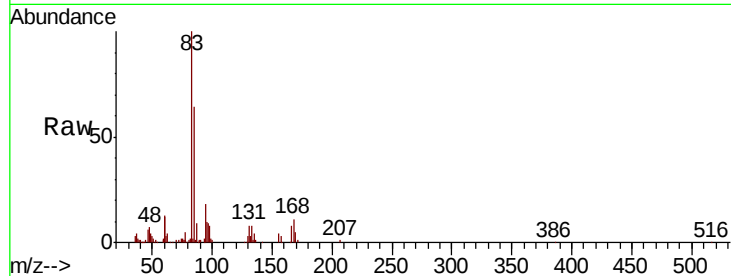
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	89660
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.6	16.8
85	64.7	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#76

1,2,3-Trichloropropane

Concen: 59.374 ug/l m

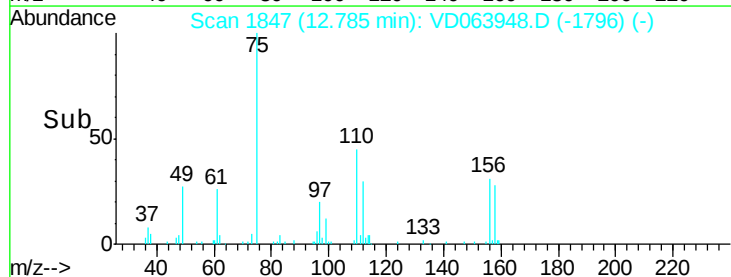
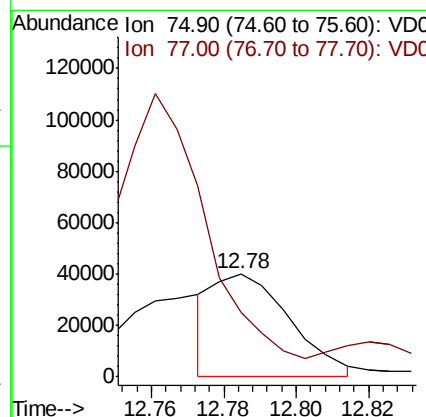
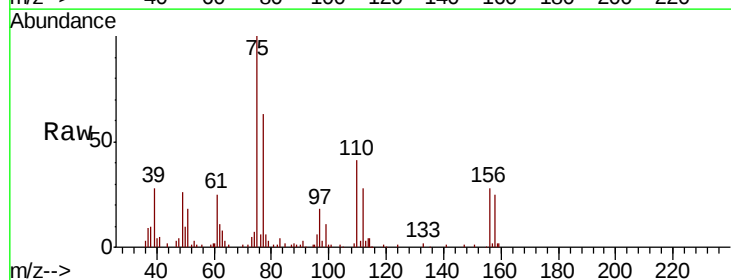
RT: 12.78 min Scan# 1847

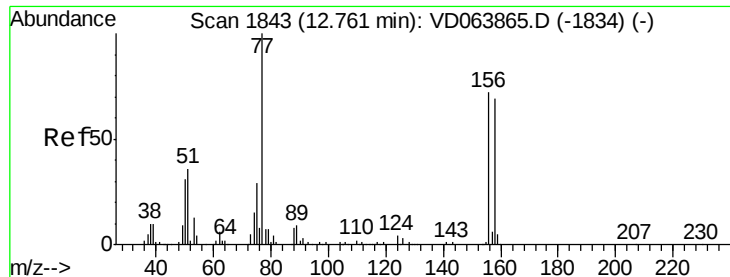
Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Tgt Ion:	75	Resp:	58790
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 52.335 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

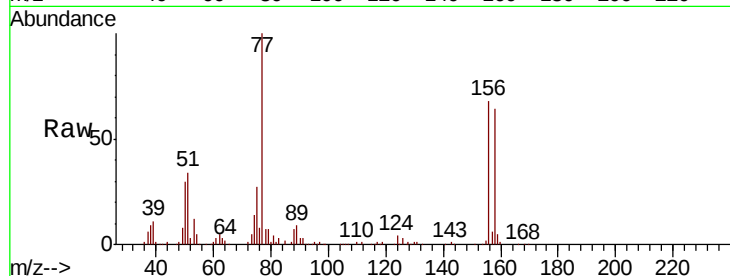
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	129582
Ion Ratio	Lower	Upper	
156	100		
77	155.8	80.3	241.0
158	95.5	47.4	142.2

Manual Integrations
APPROVED

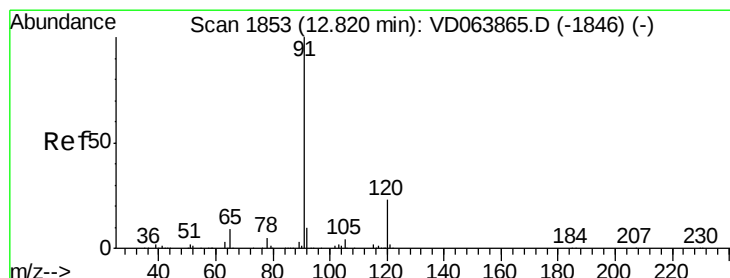
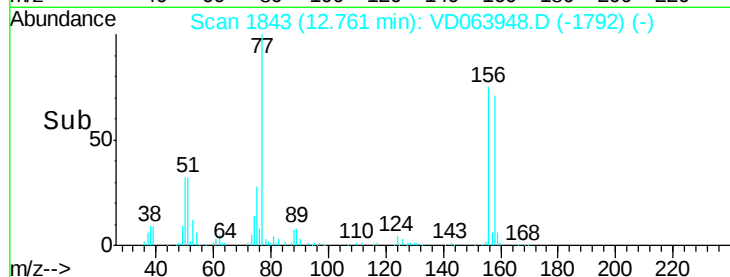
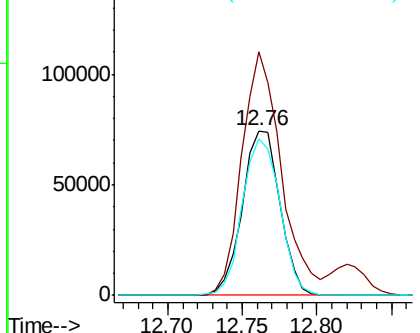
MMDadoda
10/15/2019 4:13:59 PM



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: 50.780 ug/l

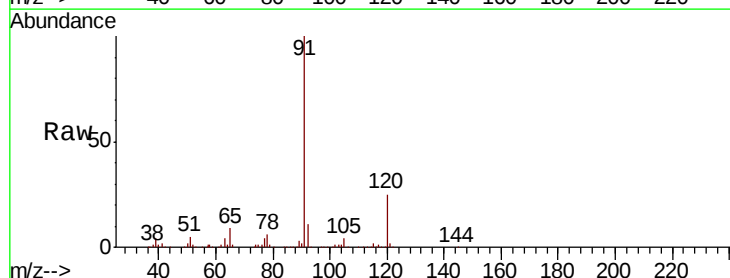
RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD063948.D

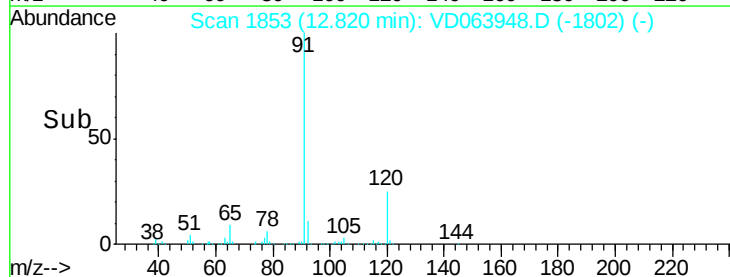
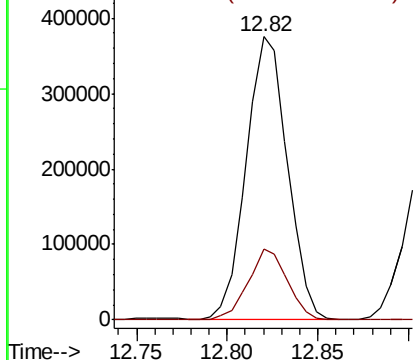
Acq: 11 Oct 2019 20:26

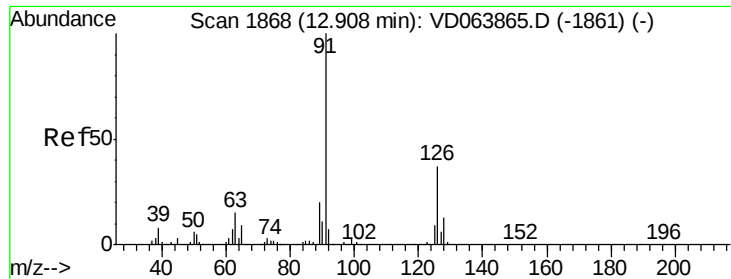
Tgt Ion:	91	Resp:	592365
Ion Ratio	Lower	Upper	
91	100		
120	23.7	12.0	36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





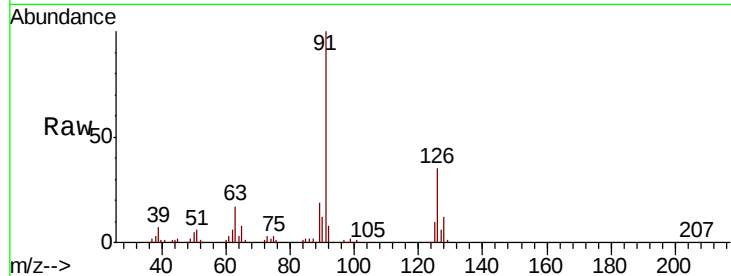
#79
2-Chlorotoluene
Concen: 50.640 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

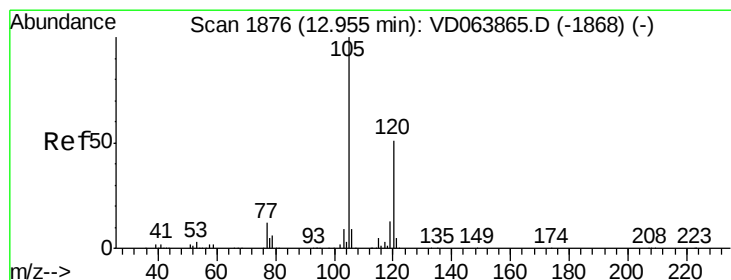
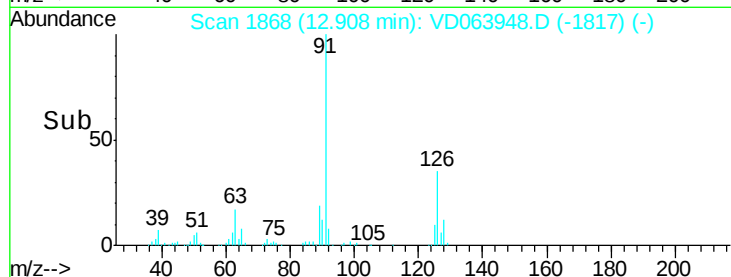
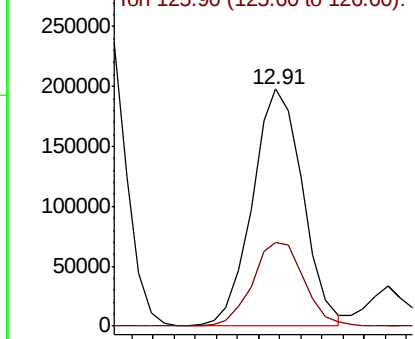
Tot Ion: 91 Resp: 325730
Ion Ratio Lower Upper
91 100
126 36.5 18.4 55.2

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM

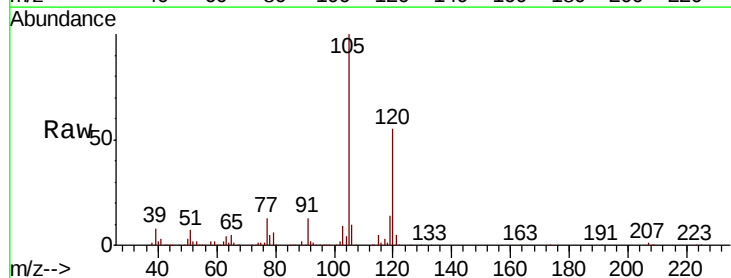


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.90 (125.60 to 126.60): V

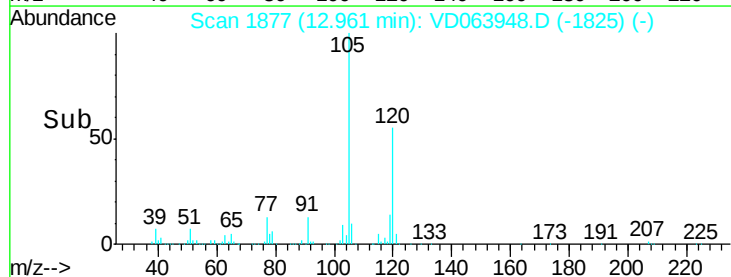
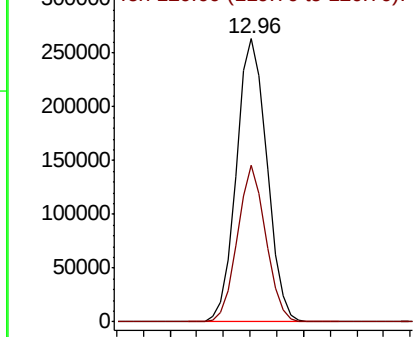


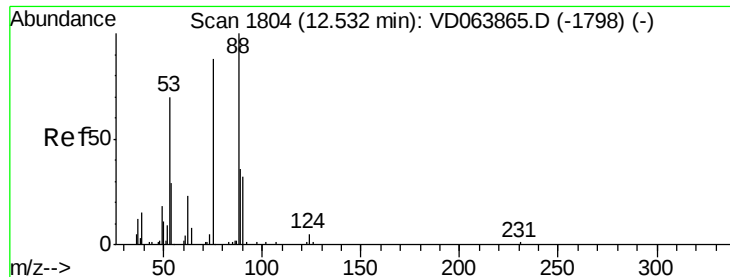
#80
1,3,5-Trimethylbenzene
Concen: 50.177 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion: 105 Resp: 416025
Ion Ratio Lower Upper
105 100
120 51.7 25.9 77.8



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





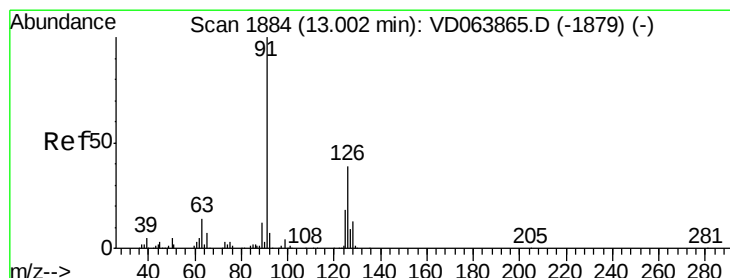
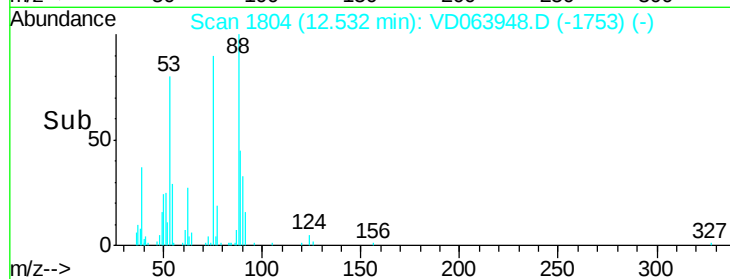
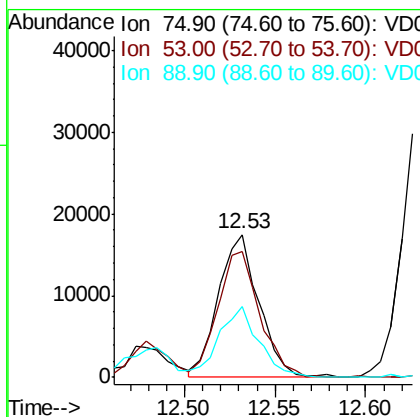
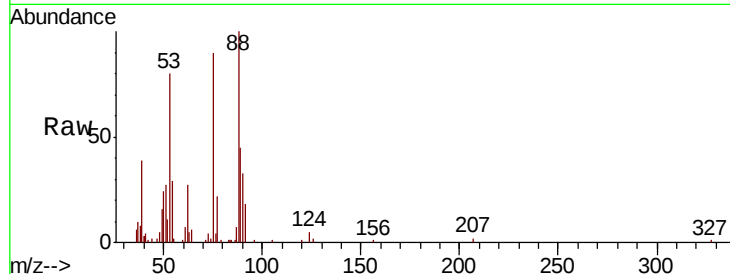
#81
trans-1,4-Dichloro-2-butene
Concen: 48.472 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.4	75.0	112.6
89	49.0	38.2	57.4

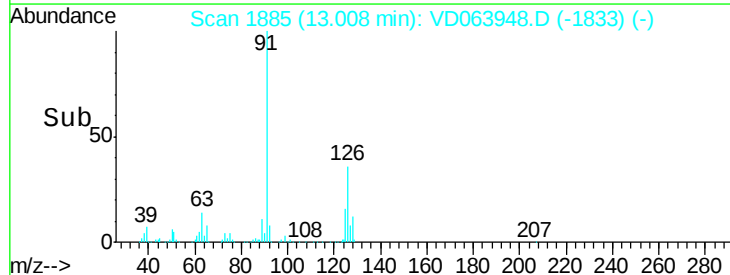
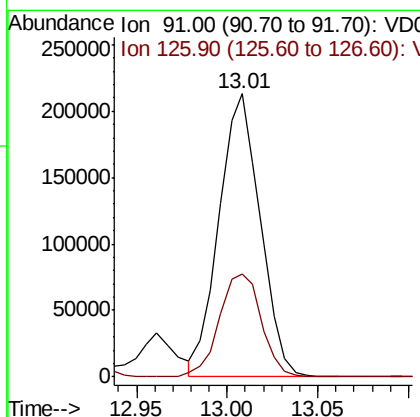
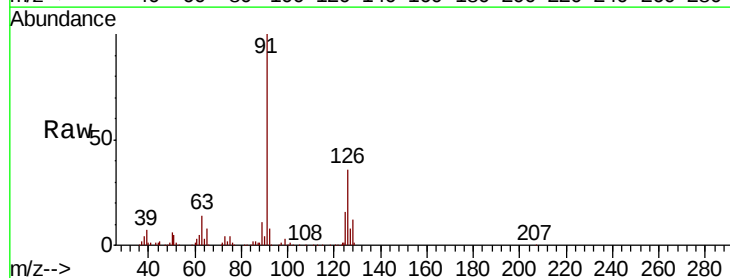
Manual Integrations
APPROVED

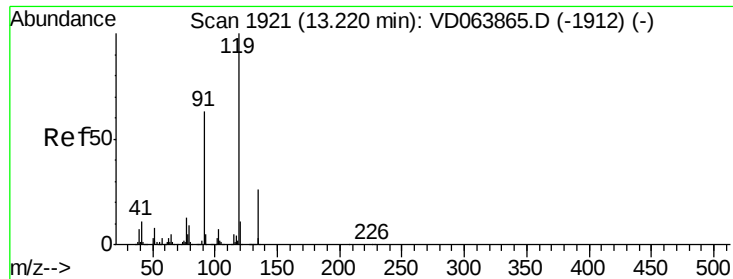
MMDadoda
10/15/2019 4:13:59 PM



#82
4-Chlorotoluene
Concen: 49.439 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.0	18.6	55.8





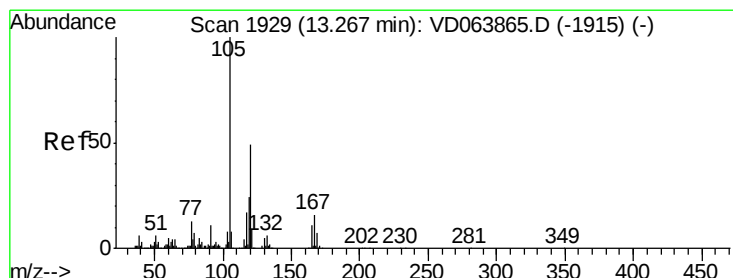
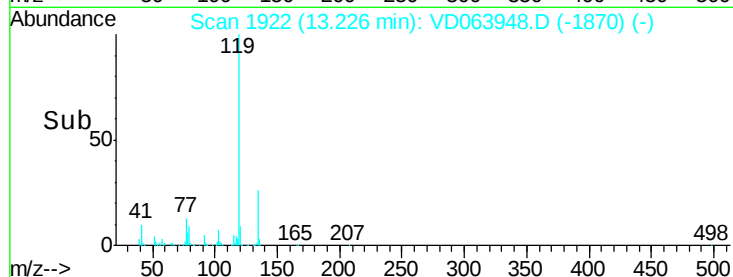
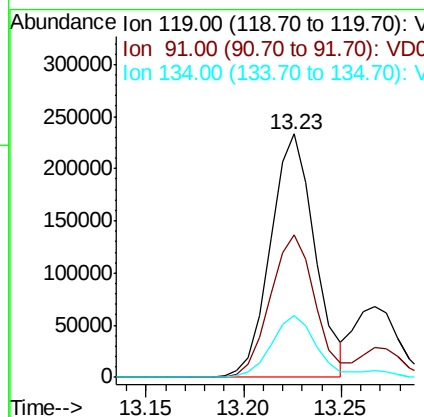
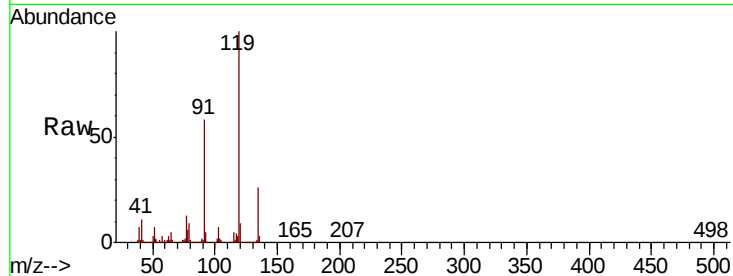
#83
tert-Butylbenzene
Concen: 49.635 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.1	30.0	90.0
134	25.6	13.0	38.9

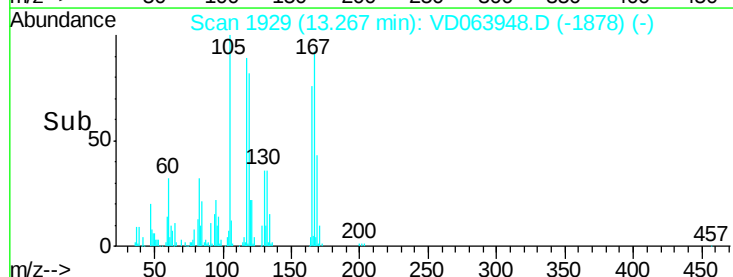
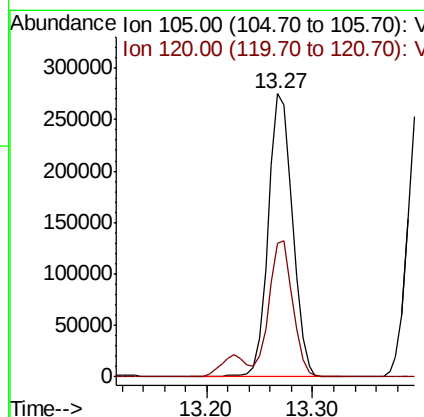
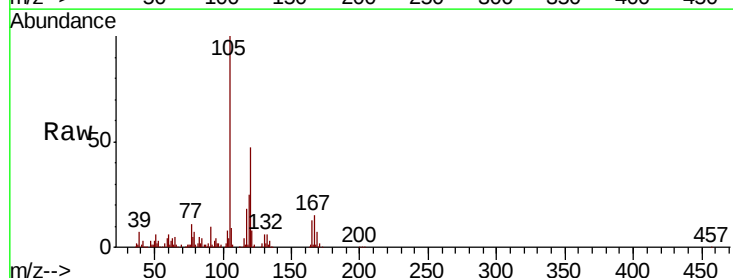
Manual Integrations
APPROVED

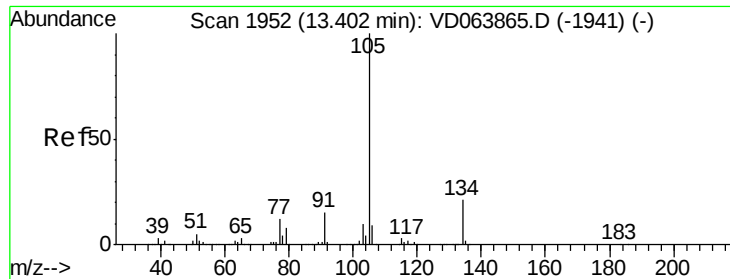
MMDadoda
10/15/2019 4:13:59 PM



#84
1,2,4-Trimethylbenzene
Concen: 51.155 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.5





#85

sec-Butylbenzene

Concen: 50.367 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 501909

Ion Ratio Lower Upper

105 100

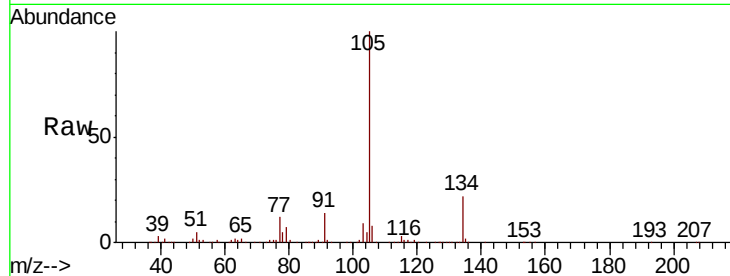
134 21.8 10.6 31.8

Manual Integrations

APPROVED

MMDadoda

10/15/2019 4:13:59 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.40

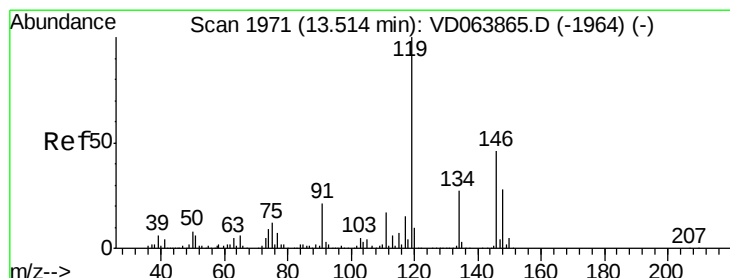
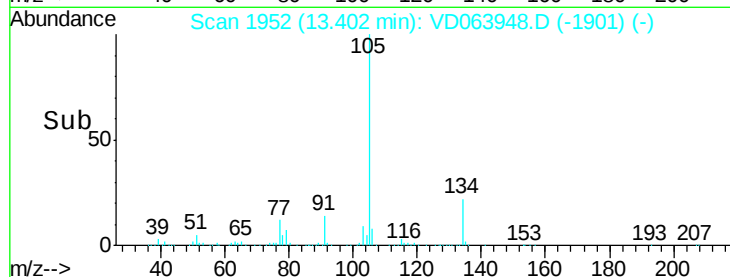
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#86

p-Isopropyltoluene

Concen: 51.902 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

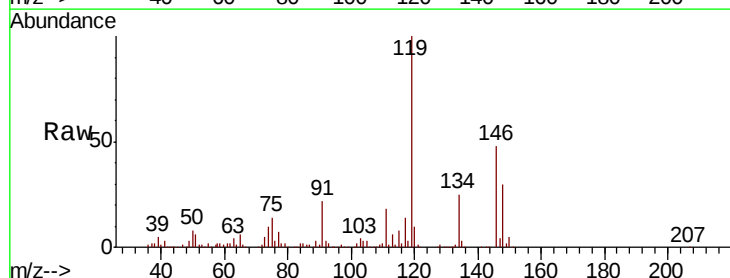
Tgt Ion:119 Resp: 489413

Ion Ratio Lower Upper

119 100

134 26.7 13.9 41.6

91 21.6 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

400000

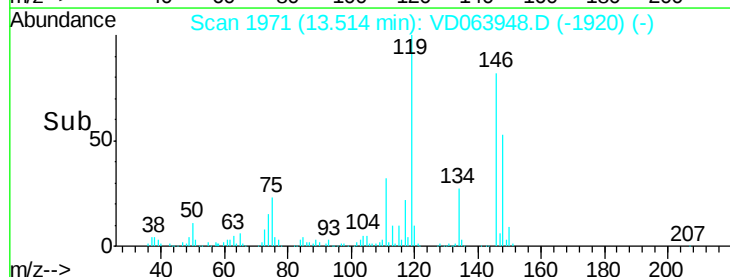
300000

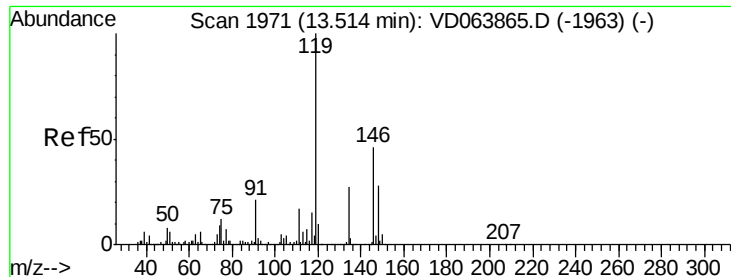
200000

100000

0

Time--> 13.45 13.50 13.55





#87

1,3-Dichlorobenzene

Concen: 51.346 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

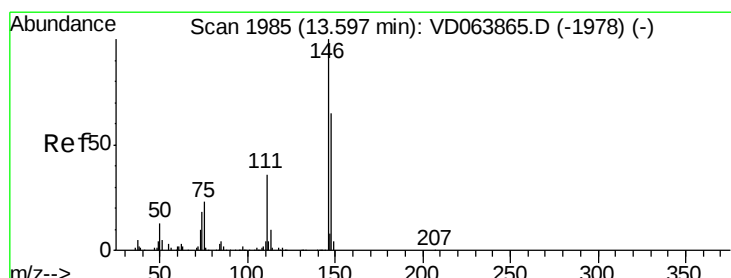
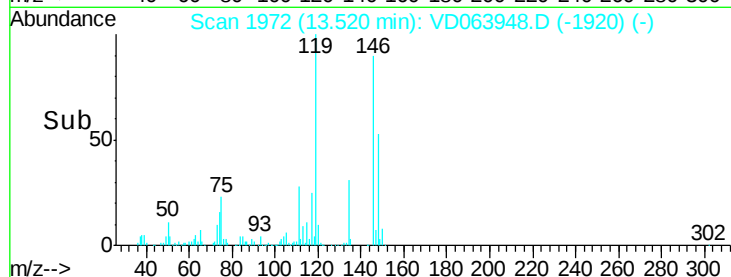
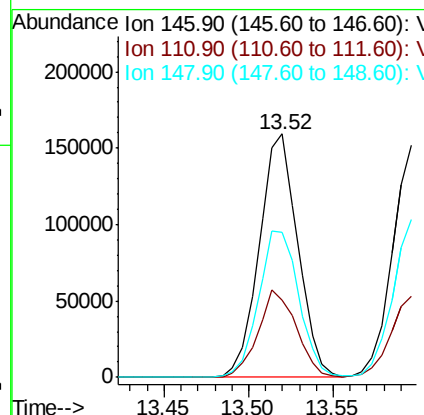
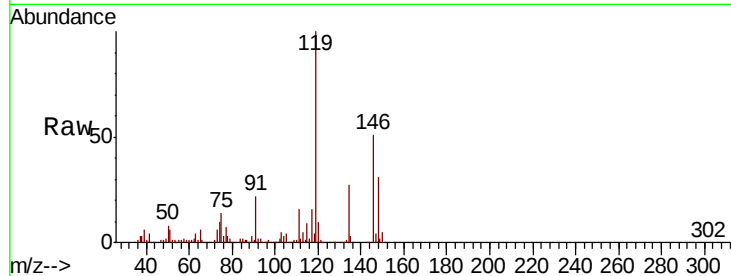
Instrument :
MSVOA_D

ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.3	54.9
148	63.0	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#88

1,4-Dichlorobenzene

Concen: 51.770 ug/l

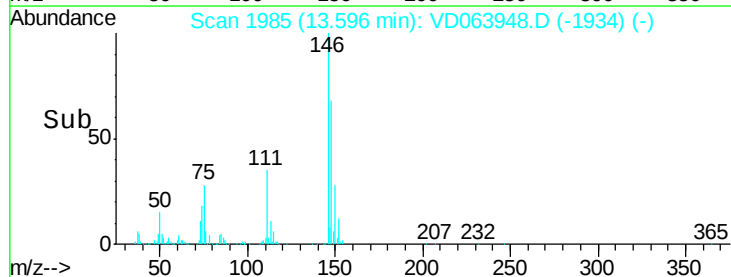
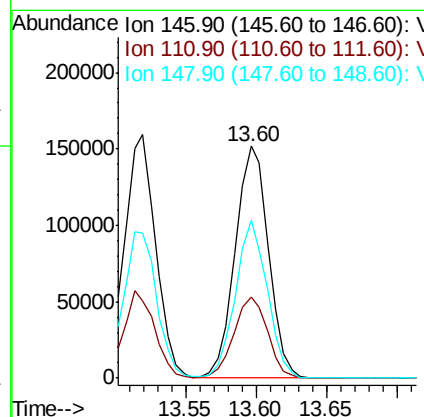
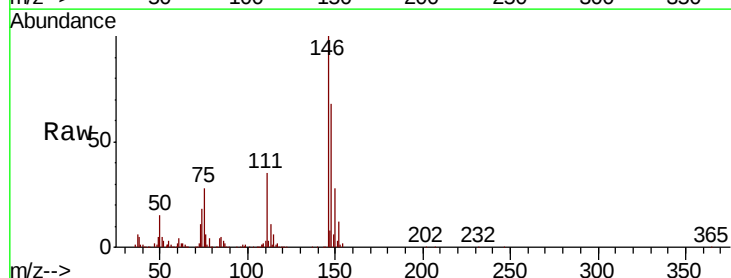
RT: 13.60 min Scan# 1985

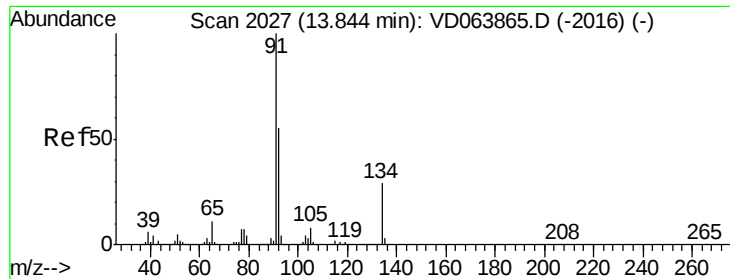
Delta R.T. -0.00 min

Lab File: VD063948.D

Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.2	18.6	56.0
148	65.1	32.6	98.0





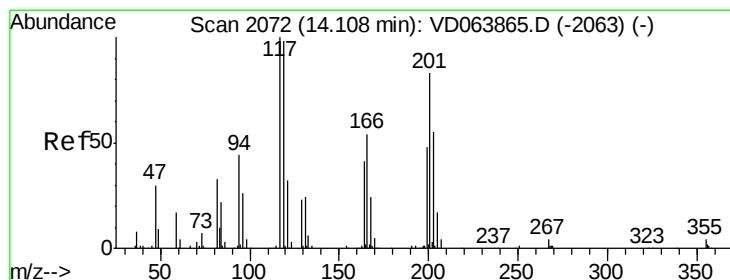
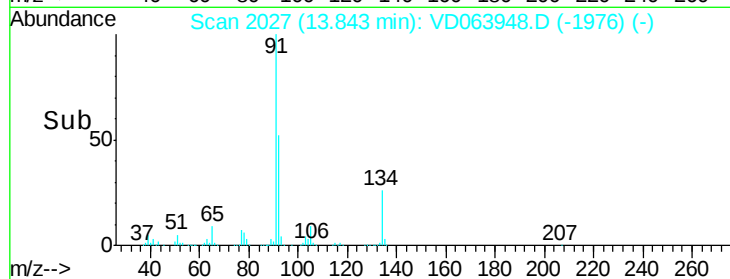
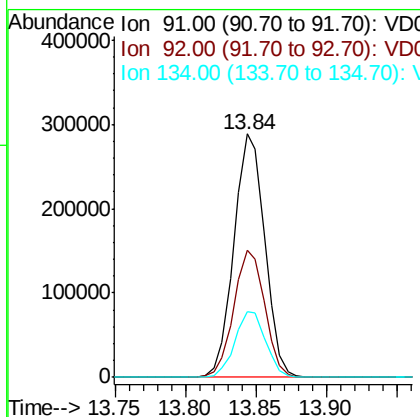
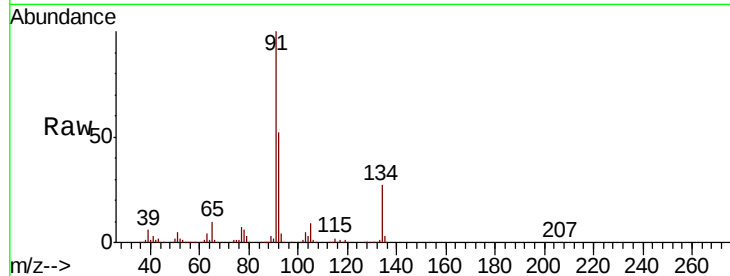
#89
n-Butylbenzene
Concen: 50.022 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.8	80.3
134	27.1	14.4	43.0

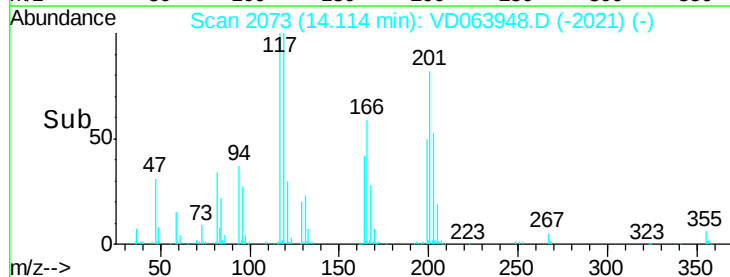
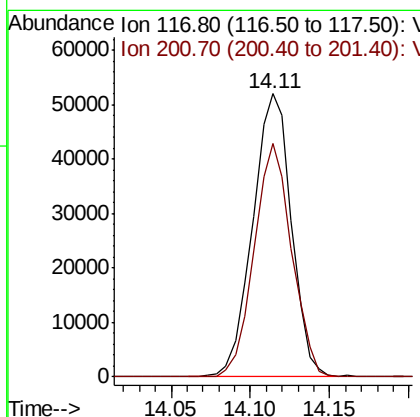
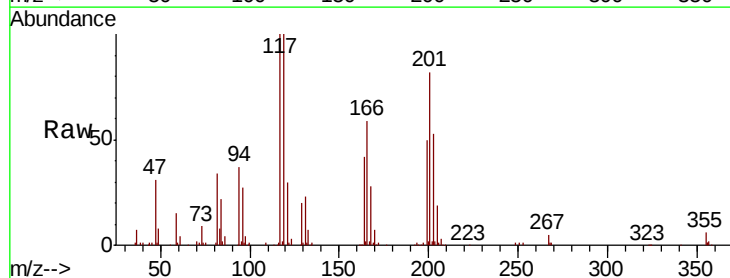
Manual Integrations
APPROVED

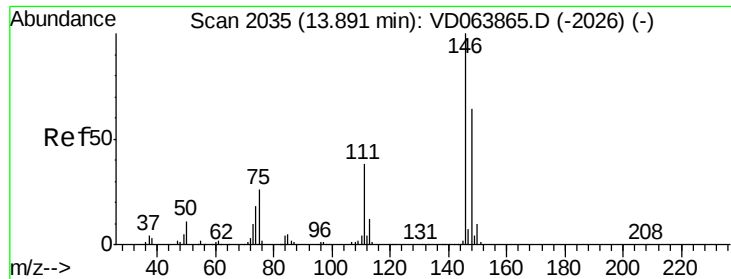
MMDadoda
10/15/2019 4:13:59 PM



#90
Hexachloroethane
Concen: 51.941 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.1	40.6	121.7





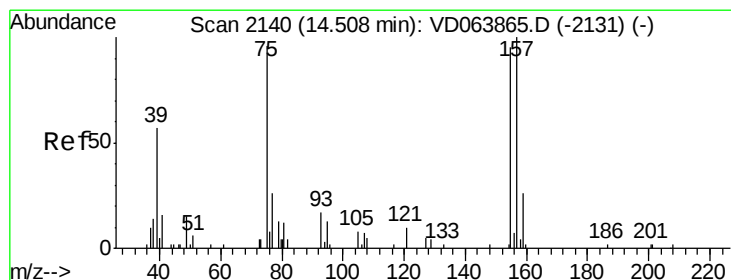
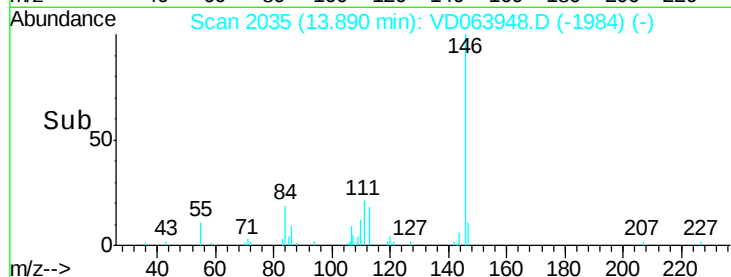
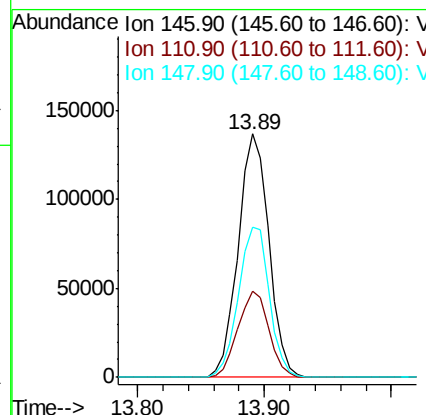
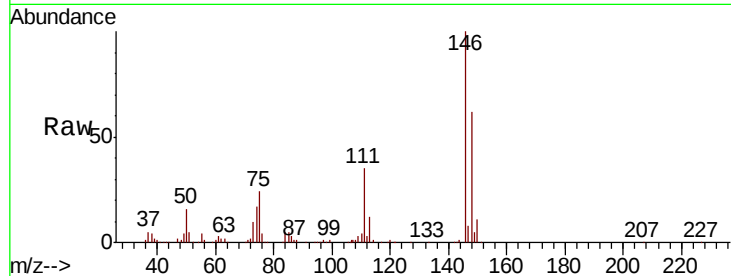
#91
 1,2-Dichlorobenzene
 Concen: 54.282 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.6	55.6
148	62.0	31.6	95.0

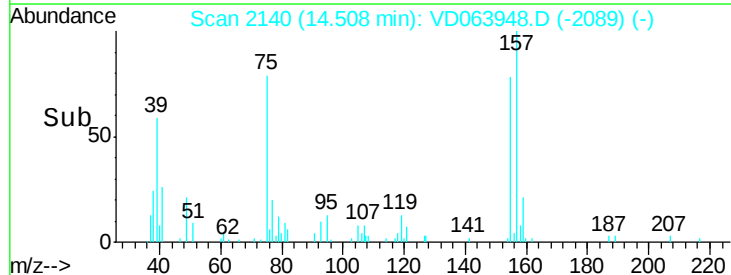
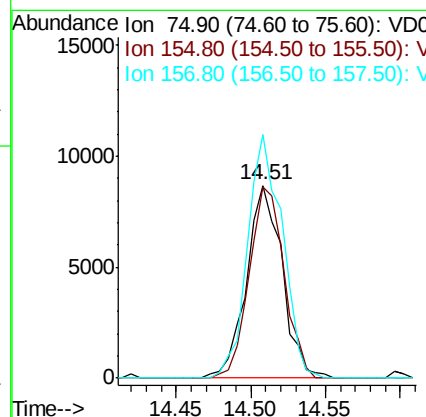
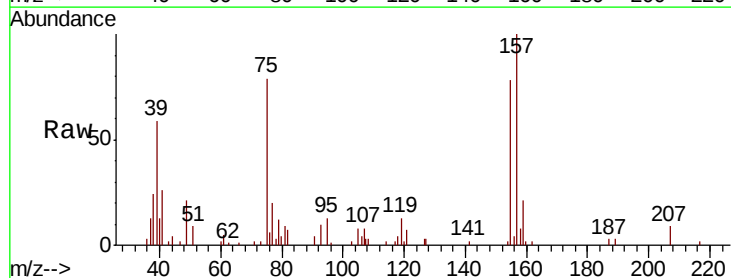
Manual Integrations
 APPROVED

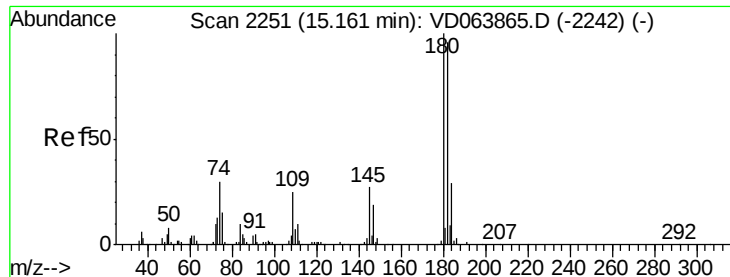
MMDadoda
 10/15/2019 4:13:59 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.496 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.1	43.9	131.6
157	122.7	56.0	167.9





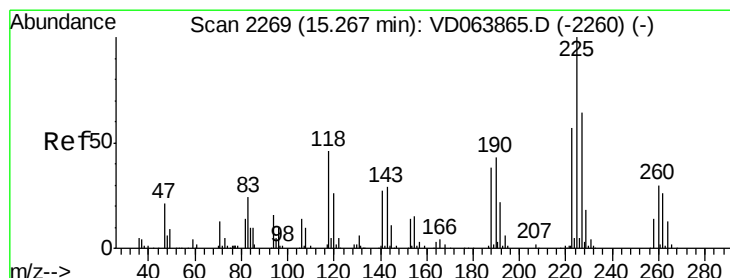
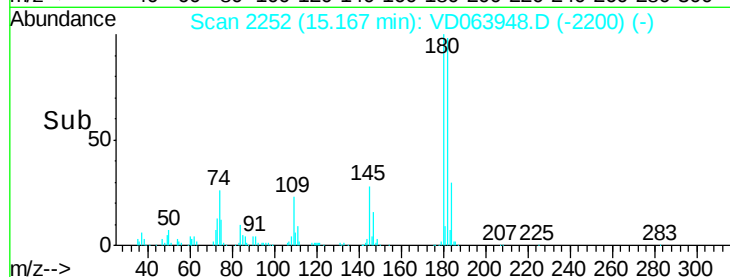
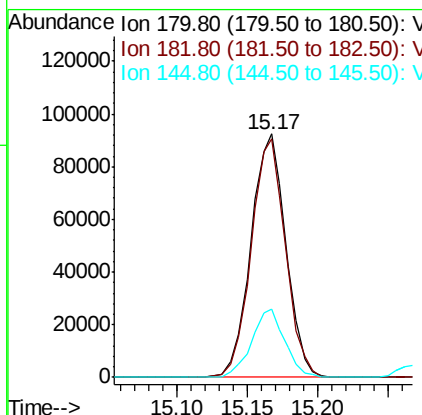
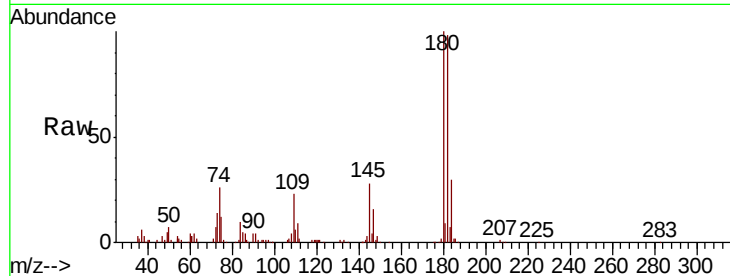
#93
 1,2,4-Trichlorobenzene
 Concen: 49.189 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	160022		
182	96.2	47.4	142.3	
145	26.8	13.9	41.7	

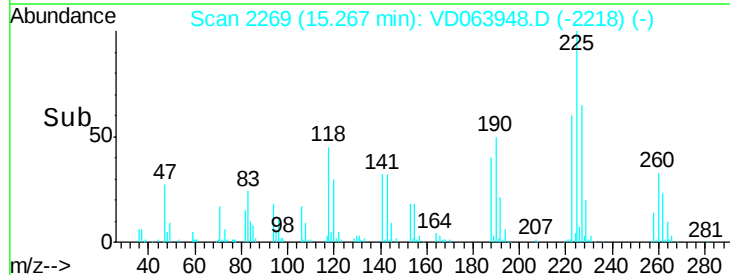
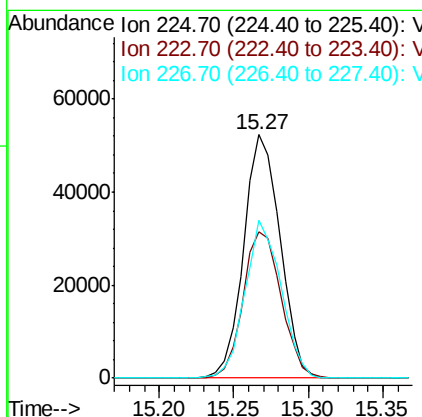
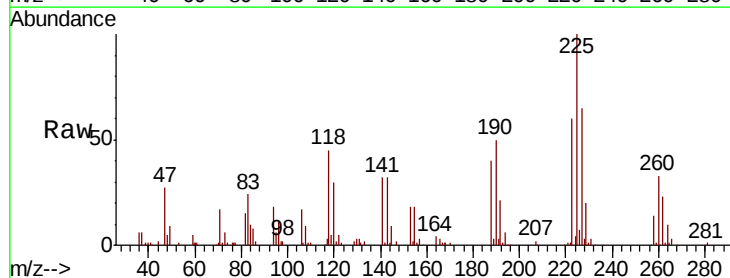
Manual Integrations
 APPROVED

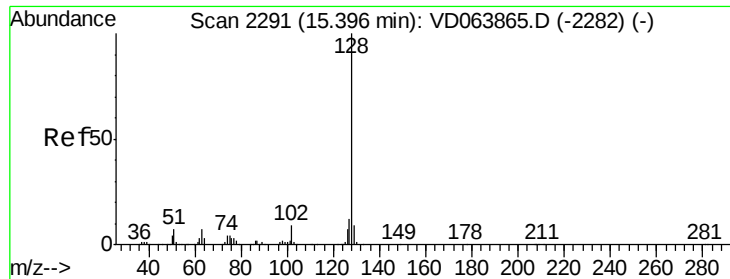
MMDadoda
 10/15/2019 4:13:59 PM



#94
 Hexachlorobutadiene
 Concen: 49.162 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.00 min
 Lab File: VD063948.D
 Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	88258		
223	62.9	29.5	88.6	
227	64.2	30.8	92.4	





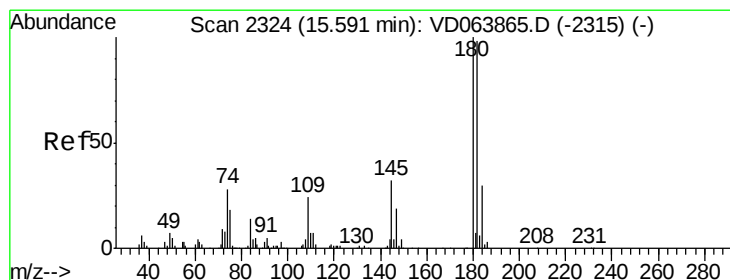
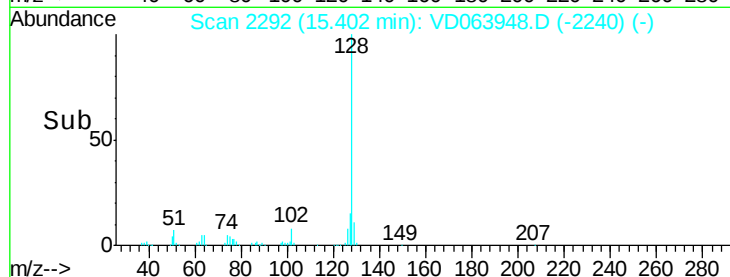
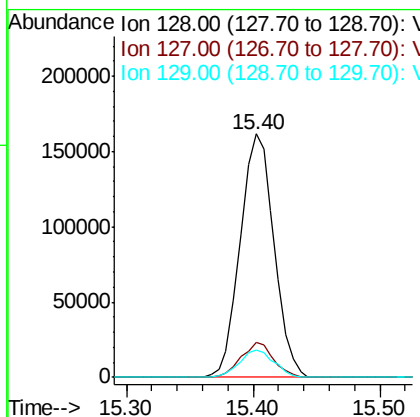
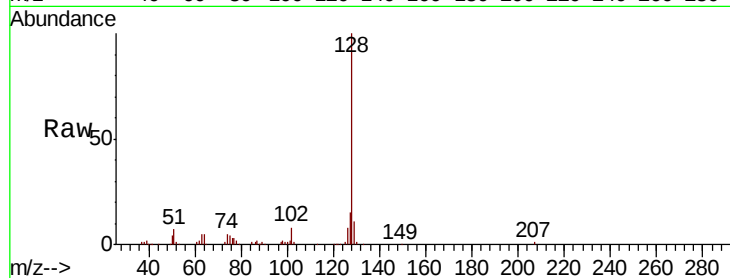
#95
Naphthalene
Concen: 54.635 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	298739		
127	13.8		10.6	16.0
129	11.2		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/15/2019 4:13:59 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.690 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. 0.01 min
Lab File: VD063948.D
Acq: 11 Oct 2019 20:26

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	142279		
182	97.7		47.0	141.0
145	31.5		15.3	45.9

