

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064038.D
 Acq On : 24 Oct 2019 10:52
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/25/2019 4:48:03 PM

Quant Time: Oct 25 04:03:57 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	185610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	279580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	272290	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	157832	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	83643	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
35) Dibromofluoromethane	7.91	113	87853	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	10.34	98	362340	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
62) 4-Bromofluorobenzene	12.63	95	117954	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	59053	44.863	ug/l	89
3) Chloromethane	2.21	50	177167	49.811	ug/l	94
4) Vinyl Chloride	2.35	62	219386	51.568	ug/l	93
5) Bromomethane	2.77	94	130795	47.821	ug/l	98
6) Chloroethane	2.93	64	140349	49.884	ug/l	95
7) Trichlorofluoromethane	3.27	101	312795	55.610	ug/l	97
8) Diethyl Ether	3.70	74	41225	45.662	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	81922	52.615	ug/l	93
10) Methyl Iodide	4.29	142	94983	44.272	ug/l	99
11) Tert butyl alcohol	5.24	59	27598	218.835	ug/l	98
12) 1,1-Dichloroethene	4.07	96	76291	49.044	ug/l	81
13) Acrolein	3.92	56	32127	199.058	ug/l	93
14) Allyl chloride	4.71	41	122782	47.475	ug/l	100
15) Acrylonitrile	5.42	53	100250	251.858	ug/l	95
16) Acetone	4.17	43	119078	253.102	ug/l	95
17) Carbon Disulfide	4.40	76	239354	42.329	ug/l #	92
18) Methyl Acetate	4.72	43	46432	50.459	ug/l	100
19) Methyl tert-butyl Ether	5.48	73	188521	46.801	ug/l	99
20) Methylene Chloride	4.97	84	95017	45.229	ug/l	97
21) trans-1,2-Dichloroethene	5.47	96	92915	47.981	ug/l	94
22) Diisopropyl ether	6.37	45	251109	47.541	ug/l	91
23) Vinyl Acetate	6.31	43	768914	244.711	ug/l	98
24) 1,1-Dichloroethane	6.27	63	166283	51.110	ug/l	96
25) 2-Butanone	7.23	43	138043	247.583	ug/l	91
26) 2,2-Dichloropropane	7.21	77	145791	49.538	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	108734	49.608	ug/l	97
28) Bromochloromethane	7.54	49	67662	54.527	ug/l	100
29) Tetrahydrofuran	7.57	42	74177	227.929	ug/l	99
30) Chloroform	7.71	83	176267	49.883	ug/l	98
31) Cyclohexane	7.98	56	150481	56.459	ug/l	97
32) 1,1,1-Trichloroethane	7.91	97	163390	53.903	ug/l	97
36) 1,1-Dichloropropene	8.11	75	140693	55.038	ug/l	99
37) Ethyl Acetate	7.30	43	54108	53.029	ug/l	100
38) Carbon Tetrachloride	8.10	117	147061	56.930	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102419\
 Data File : VD064038.D
 Acq On : 24 Oct 2019 10:52
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/25/2019 4:48:03 PM

Quant Time: Oct 25 04:03:57 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	171405	54.534	ug/l	94
40) Benzene	8.36	78	396251	54.092	ug/l	99
41) Methacrylonitrile	7.54	41	29994	50.609	ug/l #	86
42) 1,2-Dichloroethane	8.43	62	105743	49.902	ug/l	100
43) Isopropyl Acetate	8.46	43	98240	45.826	ug/l	98
44) Trichloroethene	9.11	130	113467	53.715	ug/l	99
45) 1,2-Dichloropropane	9.39	63	95137	53.059	ug/l	94
46) Dibromomethane	9.48	93	54678	53.545	ug/l	98
47) Bromodichloromethane	9.67	83	139180	52.939	ug/l	91
48) Methyl methacrylate	9.46	41	47589	46.331	ug/l	95
49) 1,4-Dioxane	9.47	88	14853	1065.597	ug/l	88
51) 4-Methyl-2-Pentanone	10.23	43	279535	251.423	ug/l	98
52) Toluene	10.40	92	277690	55.220	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	132657	51.708	ug/l	93
54) cis-1,3-Dichloropropene	10.09	75	152357	51.591	ug/l	94
55) 1,1,2-Trichloroethane	10.80	97	79726	55.295	ug/l	92
56) Ethyl methacrylate	10.66	69	89380	48.952	ug/l	96
57) 1,3-Dichloropropane	10.95	76	130686	52.976	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	181205	230.886	ug/l	99
59) 2-Hexanone	10.99	43	213165	265.048	ug/l	100
60) Dibromochloromethane	11.14	129	102639	54.679	ug/l	99
61) 1,2-Dibromoethane	11.25	107	77054	55.126	ug/l	99
64) Tetrachloroethene	10.88	164	102229	54.996	ug/l	97
65) Chlorobenzene	11.67	112	307917	56.309	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	113041	56.101	ug/l	99
67) Ethyl Benzene	11.75	91	563612	57.159	ug/l	97
68) m/p-Xylenes	11.86	106	447394	117.552	ug/l	95
69) o-Xylene	12.18	106	205814	56.475	ug/l	95
70) Styrene	12.20	104	353763	57.342	ug/l	99
71) Bromoform	12.36	173	64550	59.693	ug/l #	97
73) Isopropylbenzene	12.48	105	568495	53.580	ug/l	99
74) N-amyl acetate	12.29	43	104945	45.940	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	91470	49.542	ug/l	98
76) 1,2,3-Trichloropropane	12.78	75	61645m	58.314	ug/l	
77) Bromobenzene	12.76	156	137684	52.085	ug/l	97
78) n-propylbenzene	12.83	91	678773	54.502	ug/l	99
79) 2-Chlorotoluene	12.91	91	355694	51.796	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	481178	54.359	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	27413	45.889	ug/l	94
82) 4-Chlorotoluene	13.01	91	375569	51.555	ug/l	98
83) tert-Butylbenzene	13.23	119	423789	53.794	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	486585	53.321	ug/l	99
85) sec-Butylbenzene	13.41	105	597163	56.130	ug/l	98
86) p-Isopropyltoluene	13.52	119	581424	57.754	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	285907	54.738	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	278053	53.960	ug/l	98
89) n-Butylbenzene	13.85	91	534255	57.012	ug/l	98
90) Hexachloroethane	14.11	117	105174	58.086	ug/l	99
91) 1,2-Dichlorobenzene	13.89	146	244722	54.367	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	14653	51.135	ug/l	85

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102419\
Data File : VD064038.D
Acq On : 24 Oct 2019 10:52
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

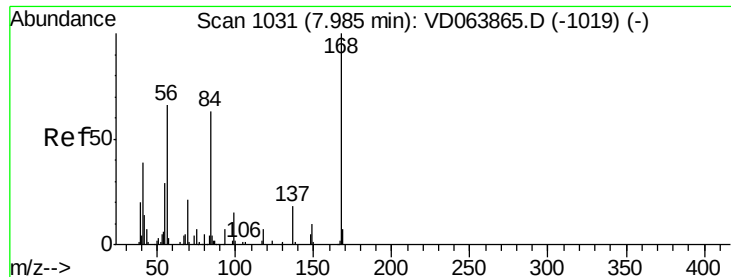
Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM

Quant Time: Oct 25 04:03:57 2019
Quant Method : Z:\V0ASRV\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	184038	52.988	ug/l	99
94) Hexachlorobutadiene	15.27	225	110728	57.772	ug/l	97
95) Naphthalene	15.41	128	315660	54.073	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	156800	52.325	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 185610

Ion Ratio Lower Upper

168 100

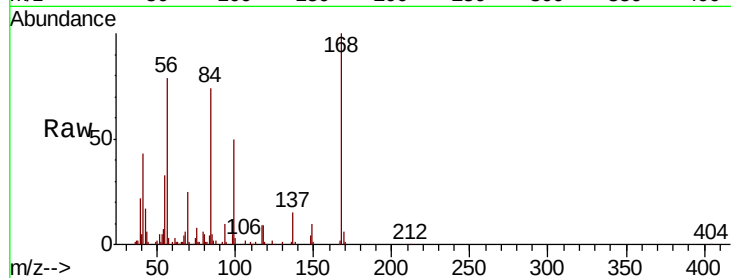
99 50.2 43.0 64.4

Manual Integrations

APPROVED

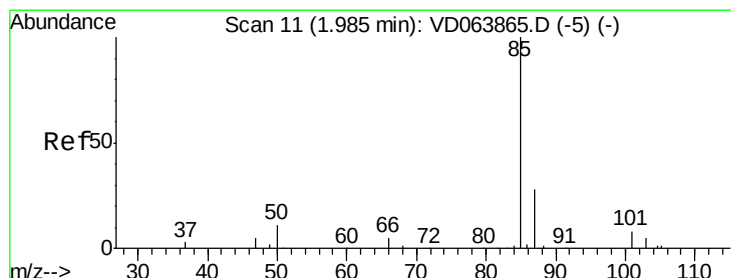
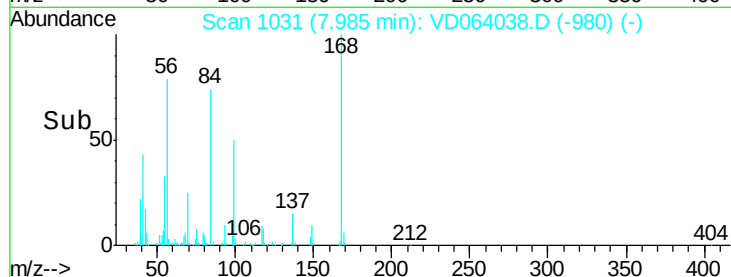
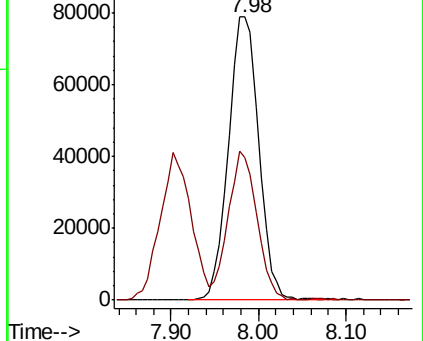
MMDadoda

10/25/2019 4:48:03 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 44.863 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD064038.D

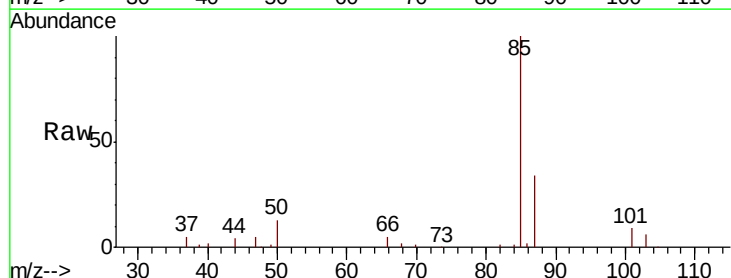
Acq: 24 Oct 2019 10:52

Tgt Ion: 85 Resp: 59053

Ion Ratio Lower Upper

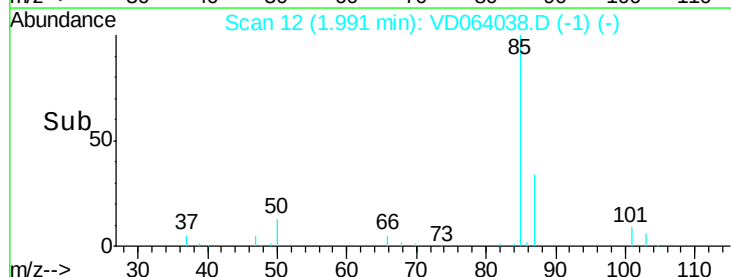
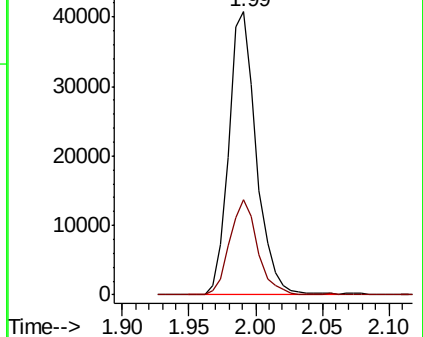
85 100

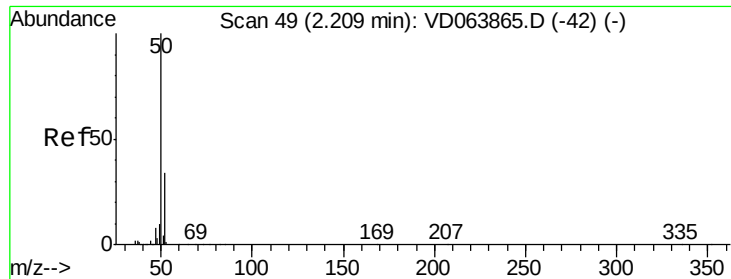
87 33.7 14.0 42.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 49.811 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 177167

Ion Ratio Lower Upper

50 100

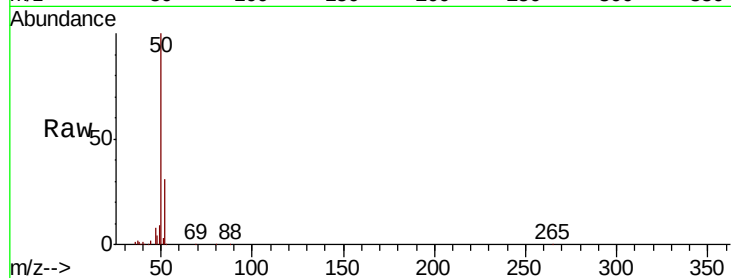
52 31.0 27.5 41.3

Manual Integrations

APPROVED

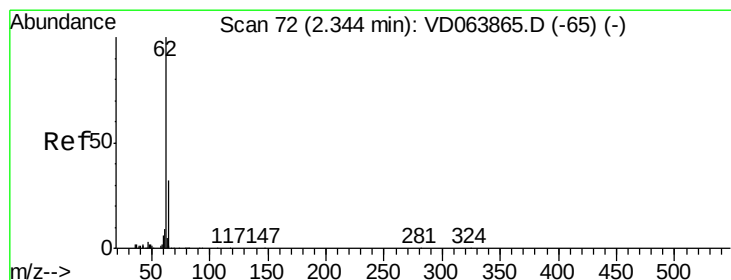
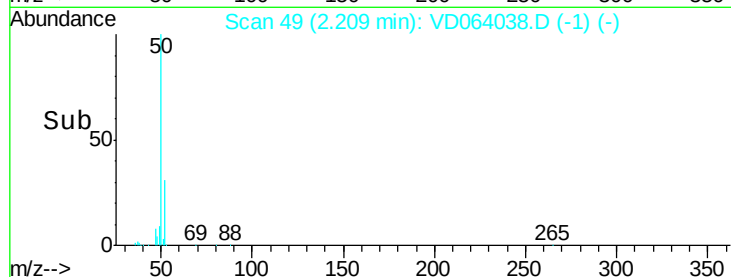
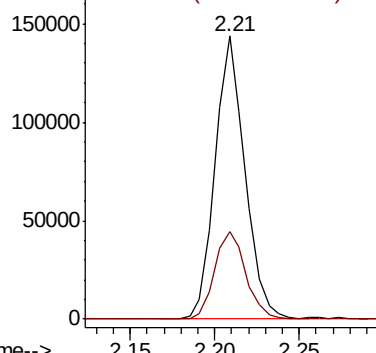
MMDadoda

10/25/2019 4:48:03 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 51.568 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD064038.D

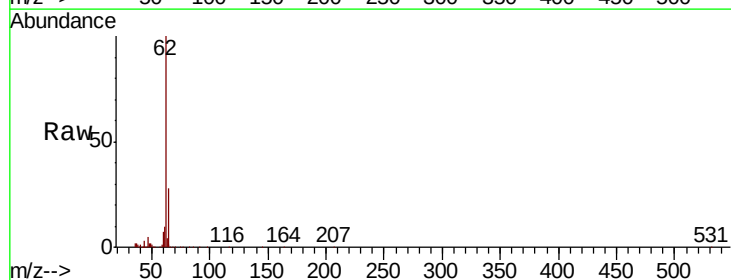
Acq: 24 Oct 2019 10:52

Tgt Ion: 62 Resp: 219386

Ion Ratio Lower Upper

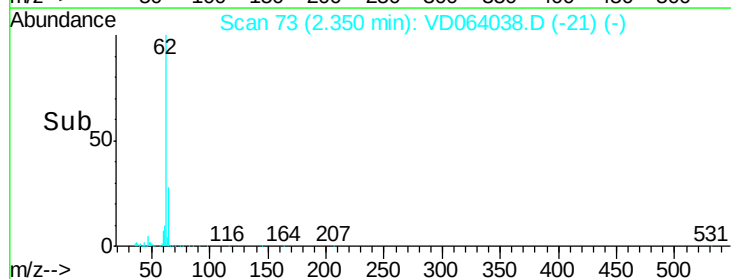
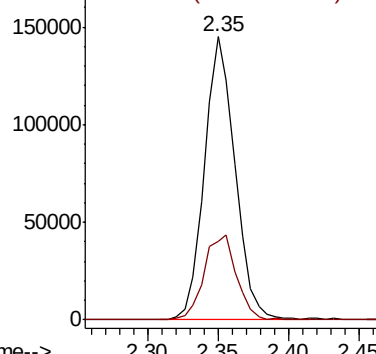
62 100

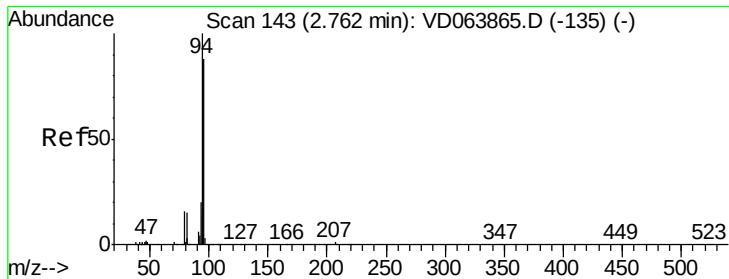
64 27.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 47.821 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 130795

Ion Ratio Lower Upper

94 100

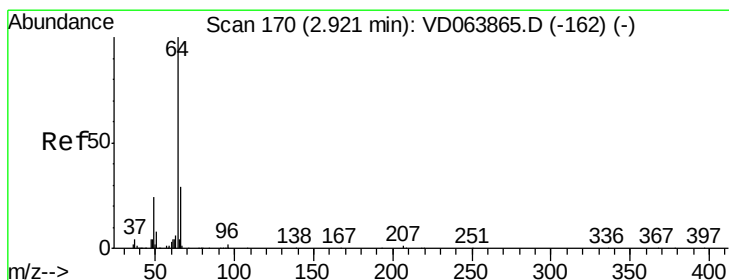
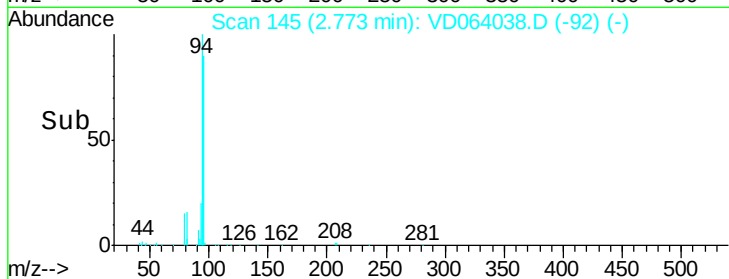
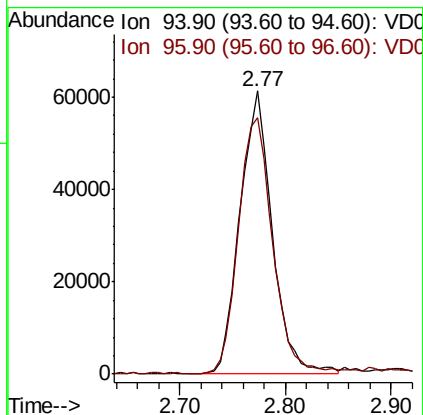
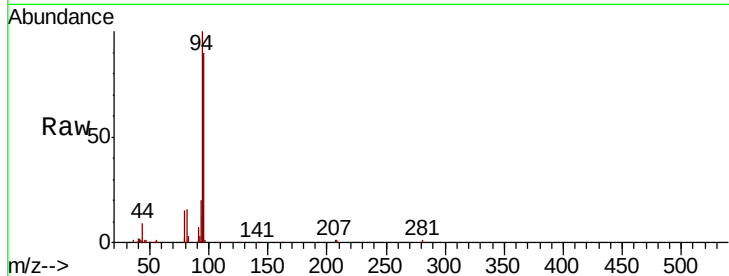
96 90.4 70.8 106.2

Manual Integrations

APPROVED

MMDadoda

10/25/2019 4:48:03 PM



#6

Chloroethane

Concen: 49.884 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD064038.D

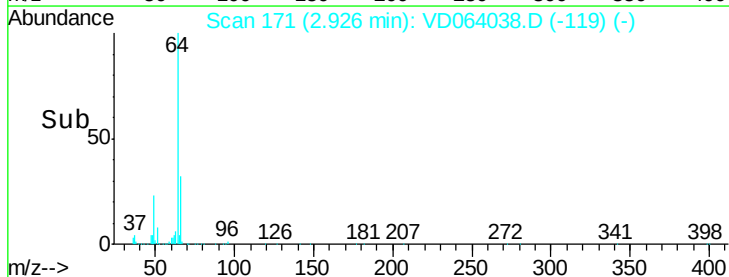
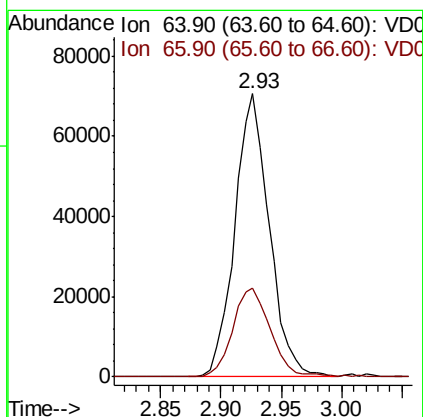
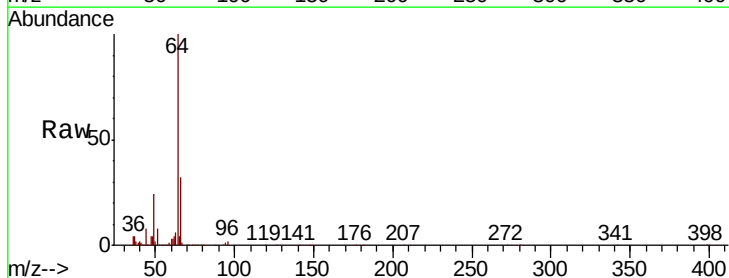
Acq: 24 Oct 2019 10:52

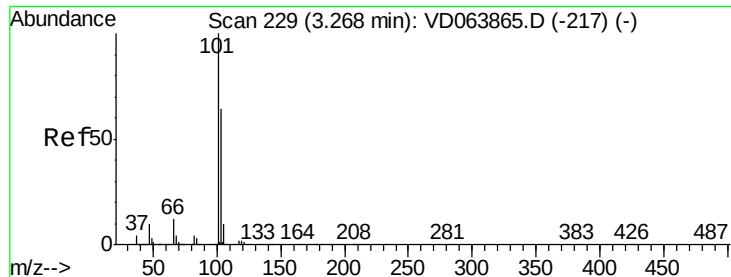
Tgt Ion: 64 Resp: 140349

Ion Ratio Lower Upper

64 100

66 31.6 23.0 34.4





#7

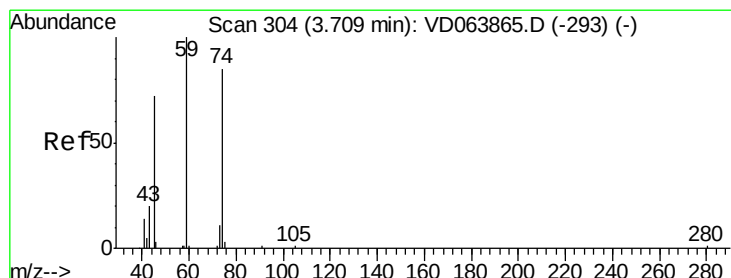
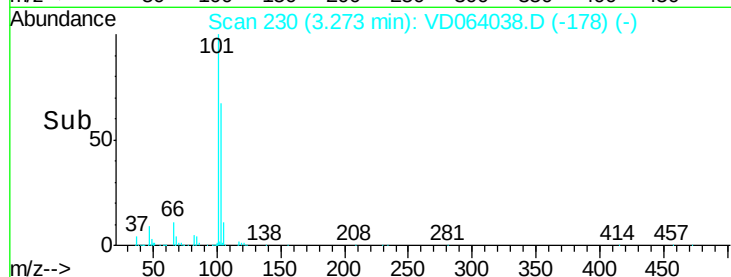
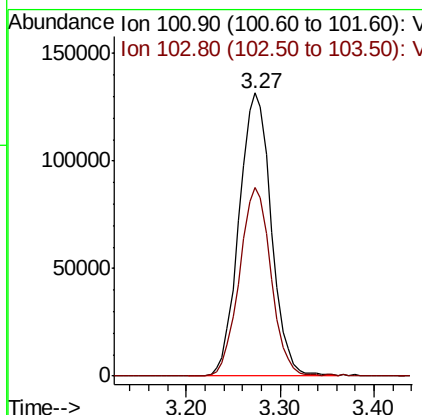
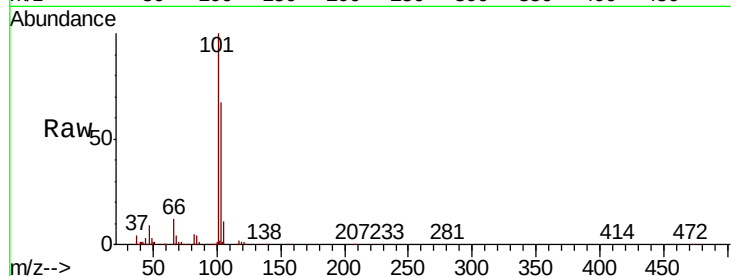
Trichlorofluoromethane
 Concen: 55.610 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.1	76.7

Manual Integrations
 APPROVED

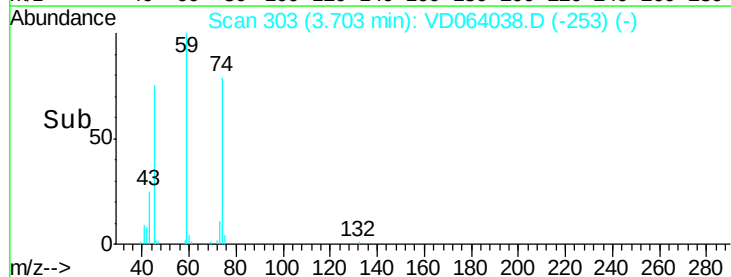
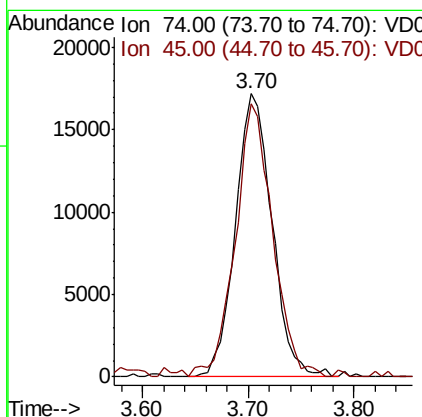
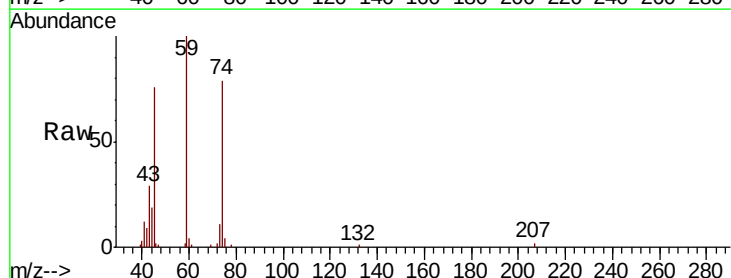
MMDadoda
 10/25/2019 4:48:03 PM

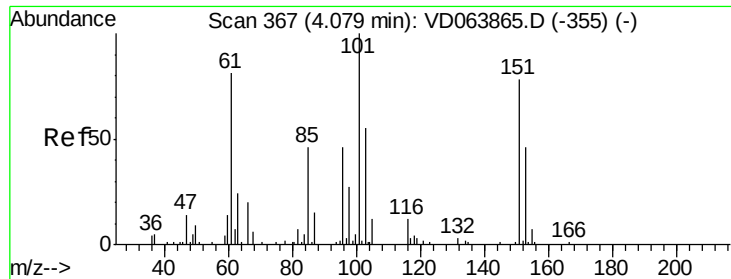


#8

Diethyl Ether
 Concen: 45.662 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.4	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.615 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

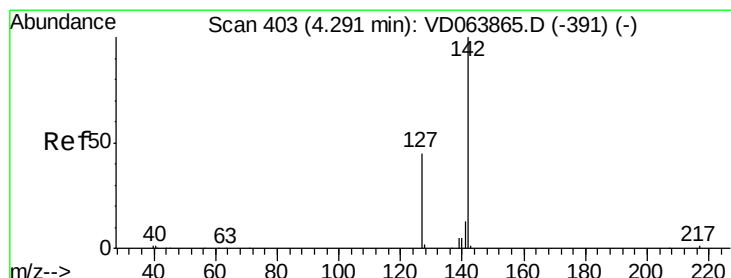
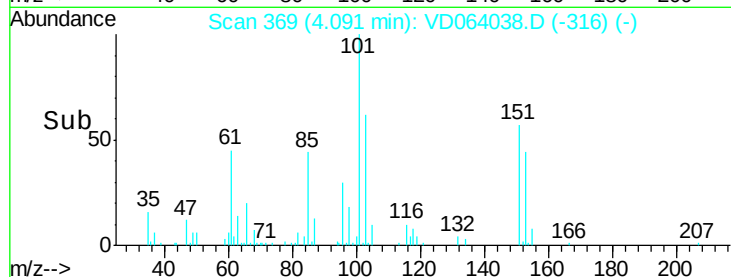
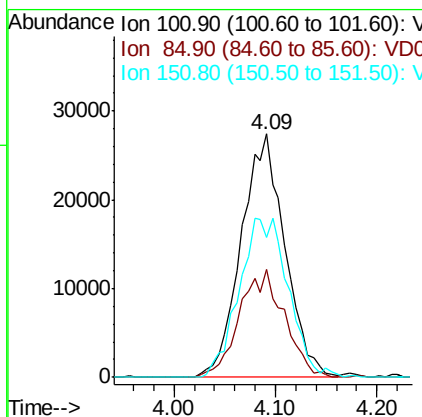
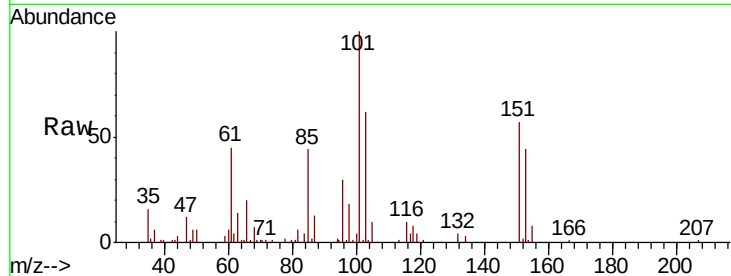
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	81922
Ion Ratio	Lower	Upper	
101	100		
85	45.4	37.5	56.3
151	73.6	65.5	98.3

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#10

Methyl Iodide

Concen: 44.272 ug/l

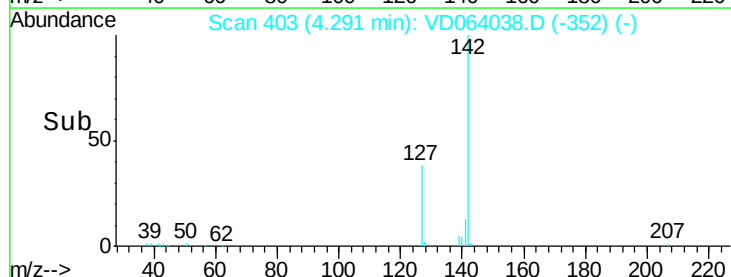
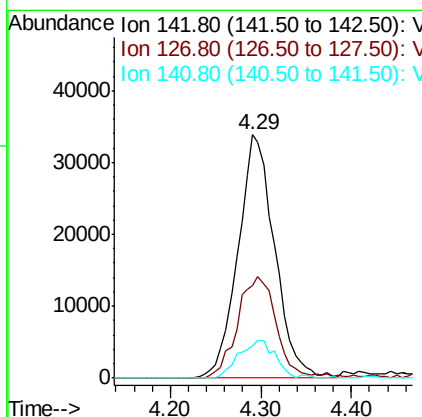
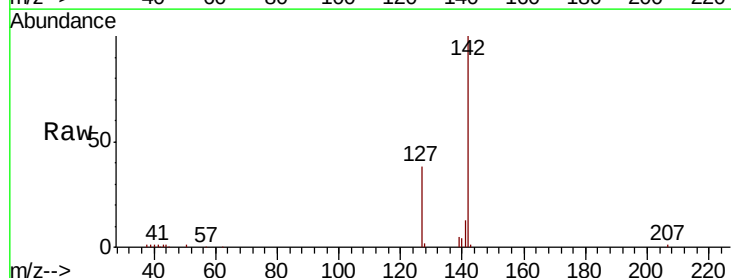
RT: 4.29 min Scan# 403

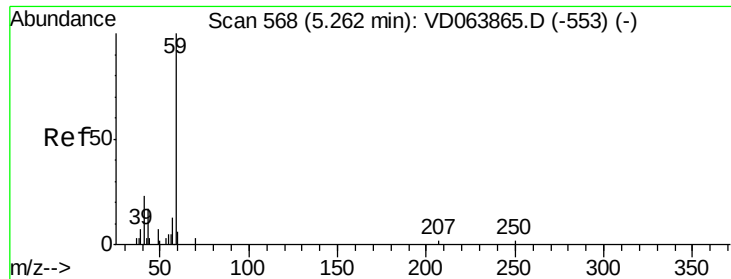
Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	142	Resp:	94983
Ion Ratio	Lower	Upper	
142	100		
127	43.5	35.3	52.9
141	15.1	12.2	18.2





#11

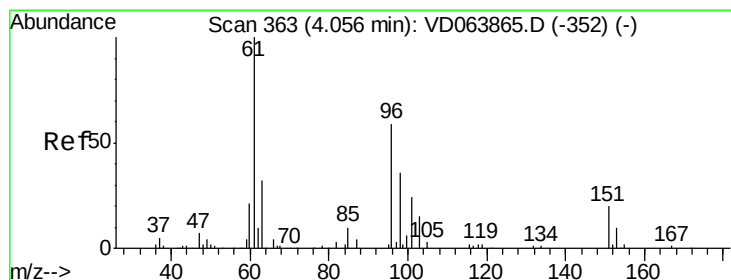
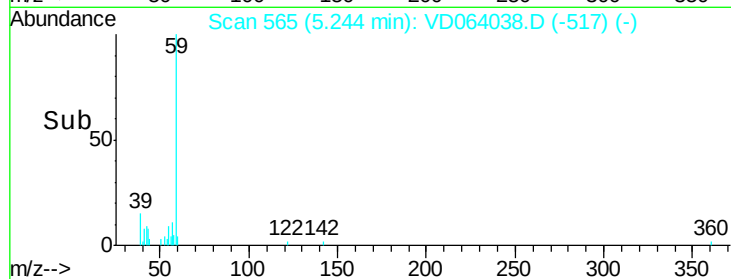
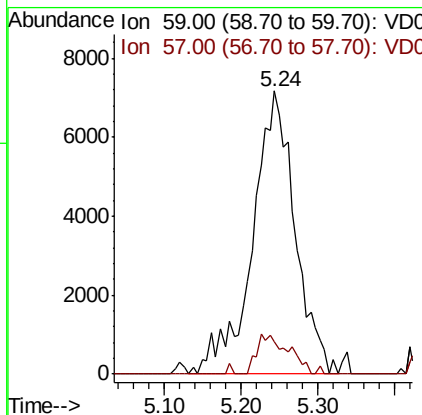
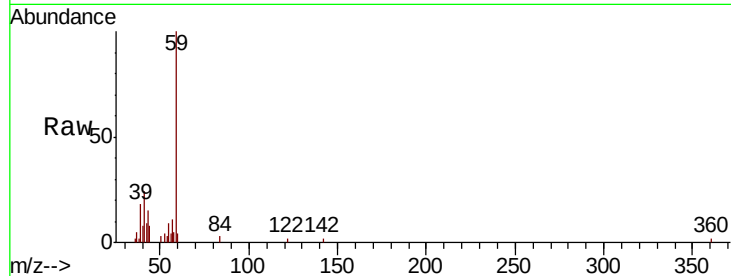
Tert butyl alcohol
Concen: 218.835 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.02 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	27598
Ion Ratio	100	Lower	Upper
57	10.4	8.8	13.2

Manual Integrations
APPROVED

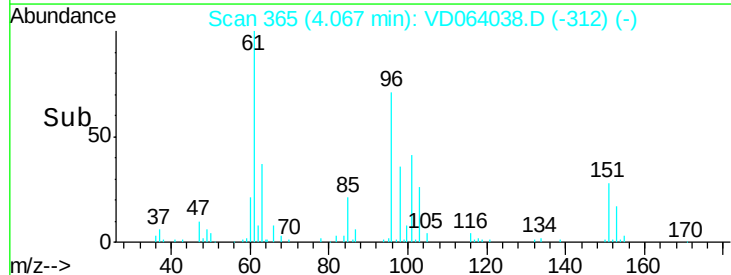
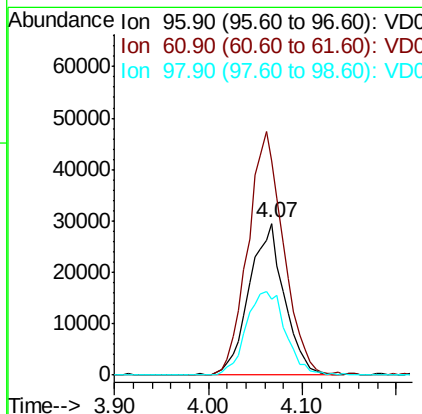
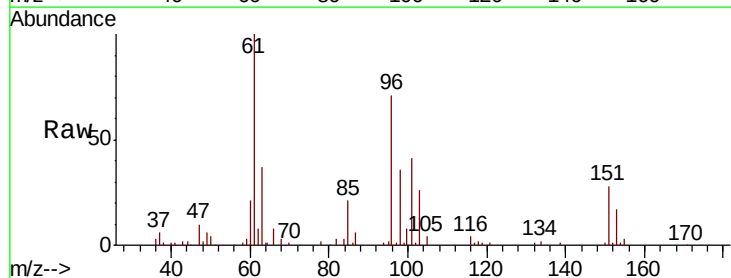
MMDadoda
10/25/2019 4:48:03 PM

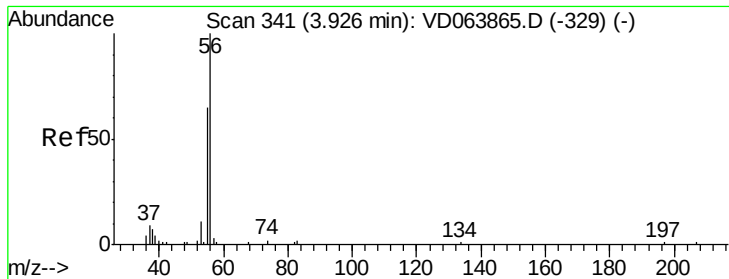


#12

1,1-Dichloroethene
Concen: 49.044 ug/l
RT: 4.07 min Scan# 365
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	96	Resp	76291
Ion Ratio	100	Lower	Upper
61	141.3	135.6	203.4
98	50.4	49.2	73.8





#13

Acrolein

Concen: 199.058 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 32127

Ion Ratio Lower Upper

56 100

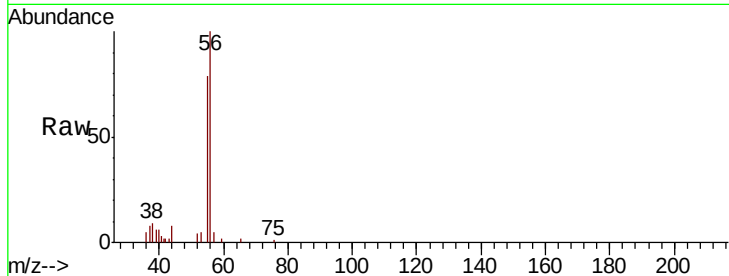
55 72.3 53.0 79.6

Manual Integrations

APPROVED

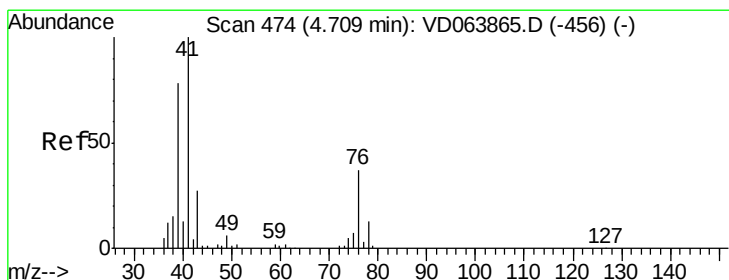
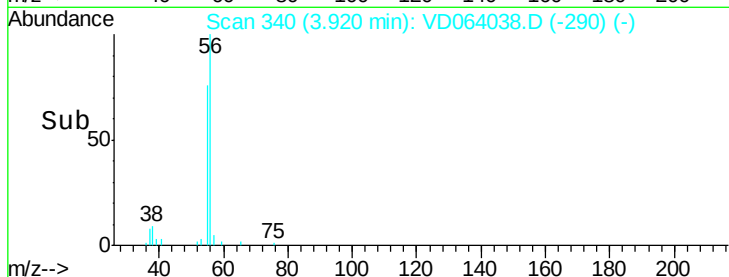
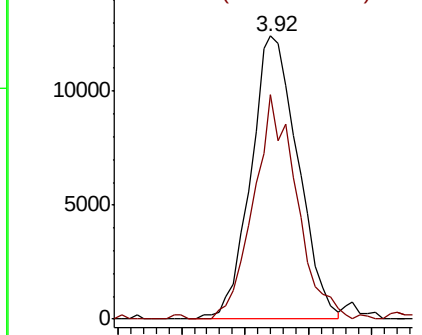
MMDadoda

10/25/2019 4:48:03 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 47.475 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

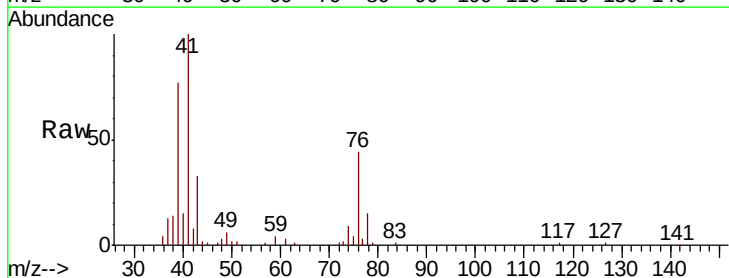
Tgt Ion: 41 Resp: 122782

Ion Ratio Lower Upper

41 100

39 77.1 61.8 92.6

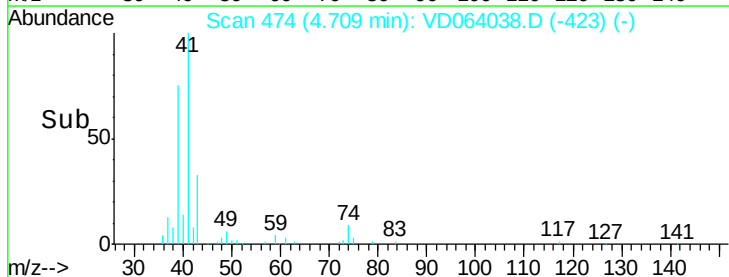
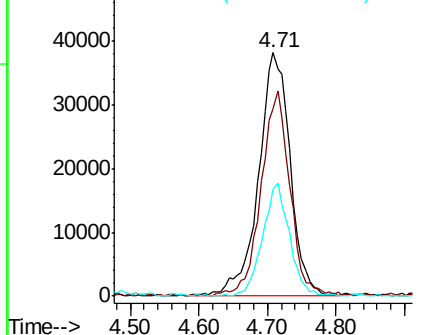
76 39.3 31.3 46.9

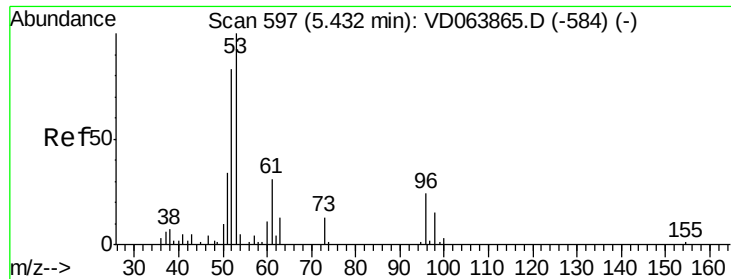


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 251.858 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

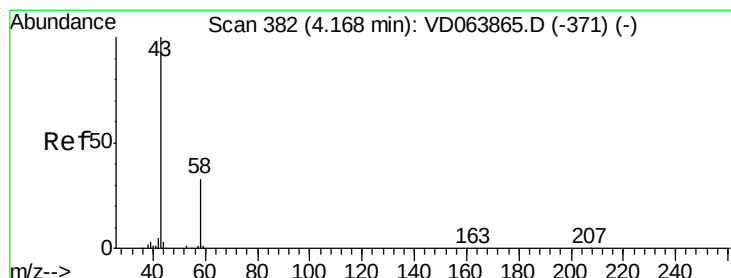
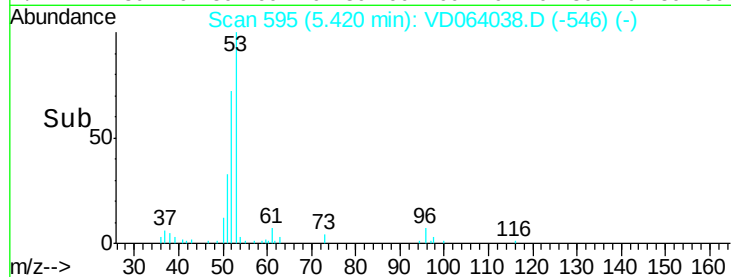
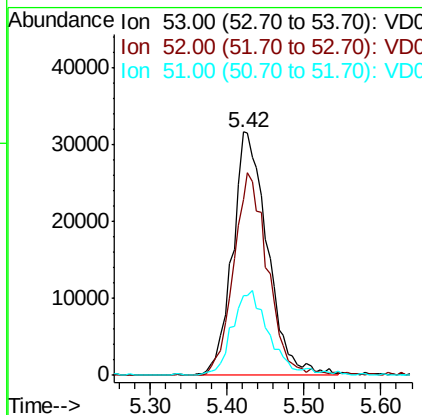
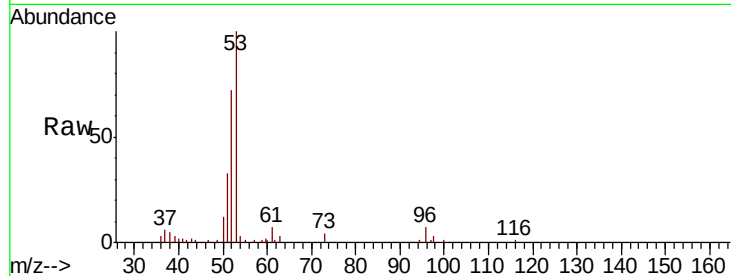
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	100250
Ion Ratio		Lower	Upper
53	100		
52	79.8	67.3	100.9
51	35.3	30.5	45.7

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#16

Acetone

Concen: 253.102 ug/l

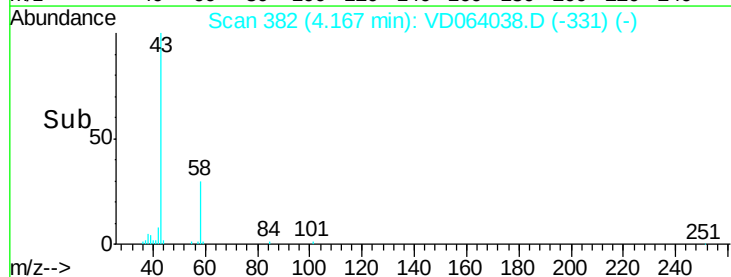
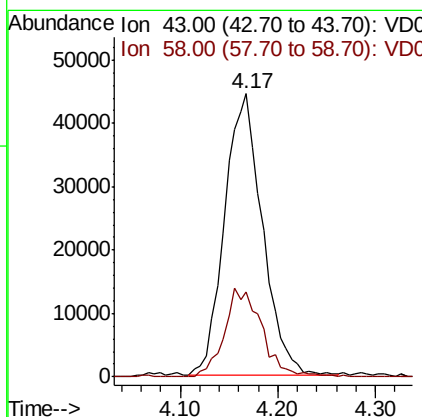
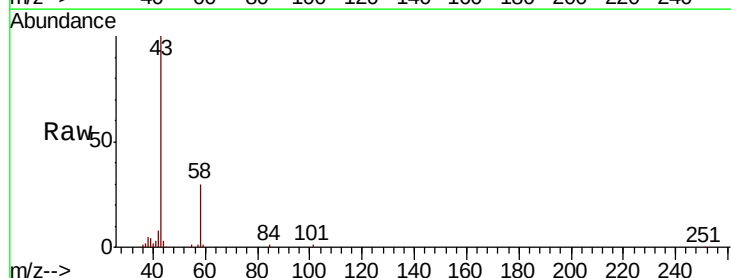
RT: 4.17 min Scan# 382

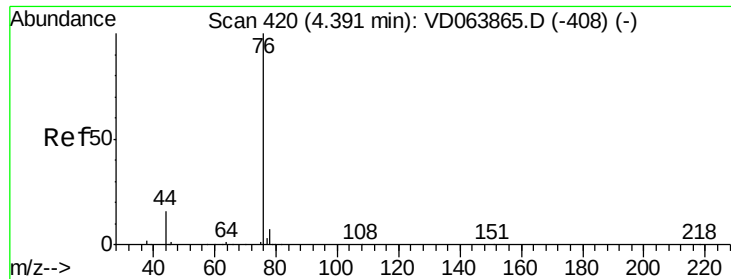
Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	43	Resp:	119078
Ion Ratio		Lower	Upper
43	100		
58	30.1	26.2	39.4





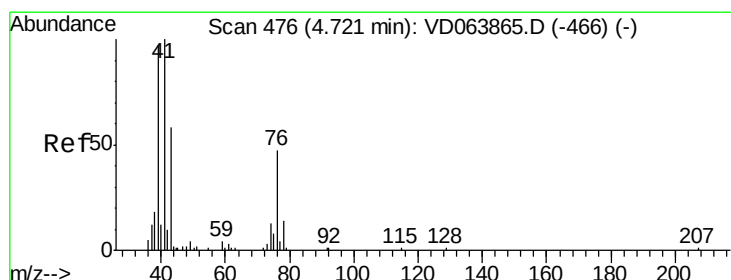
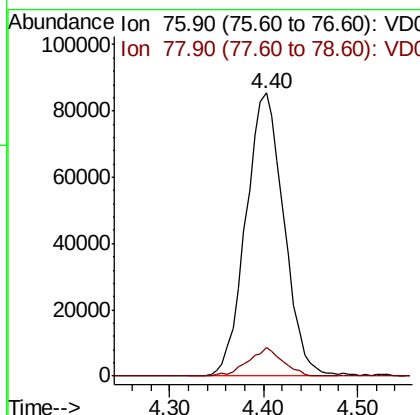
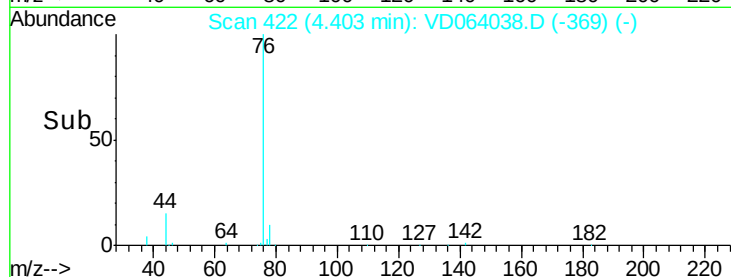
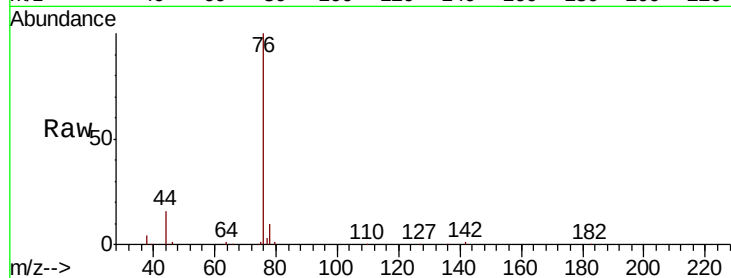
#17
Carbon Disulfide
Concen: 42.329 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 239354
Ion Ratio Lower Upper
76 100
78 10.2 5.8 8.8#

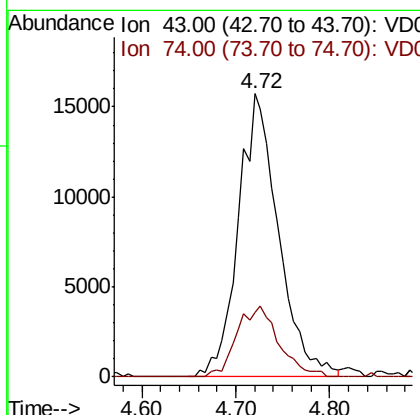
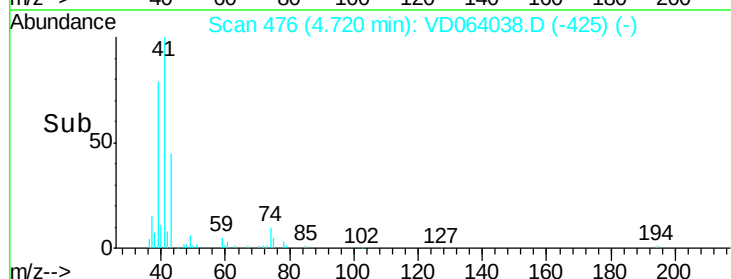
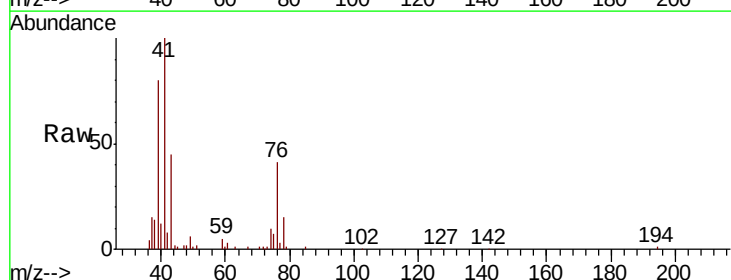
Manual Integrations
APPROVED

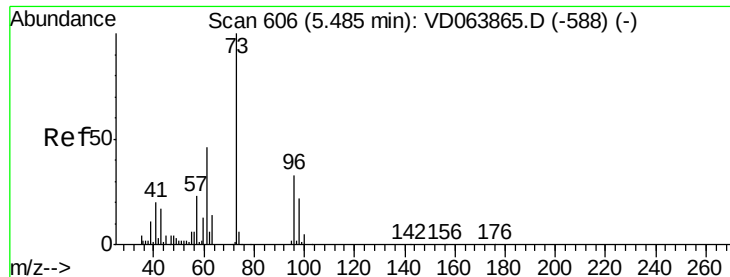
MMDadoda
10/25/2019 4:48:03 PM



#18
Methyl Acetate
Concen: 50.459 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion: 43 Resp: 46432
Ion Ratio Lower Upper
43 100
74 26.2 20.8 31.2





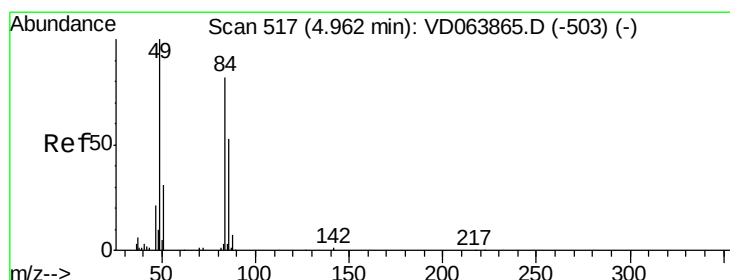
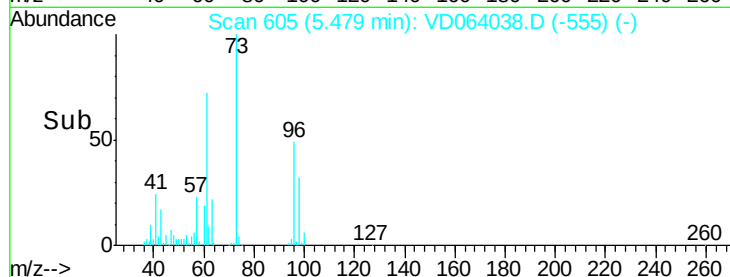
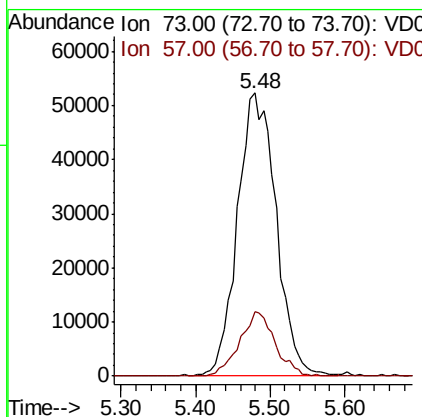
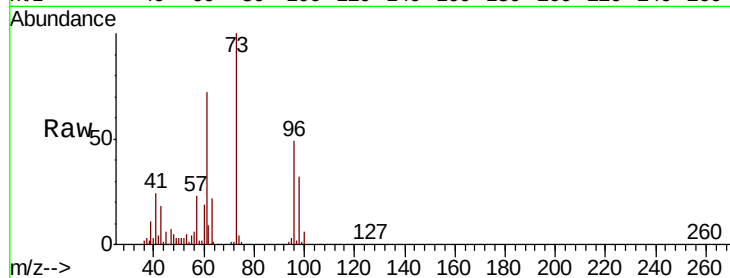
#19
Methyl tert-butyl Ether
Concen: 46.801 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.9	18.1	27.1

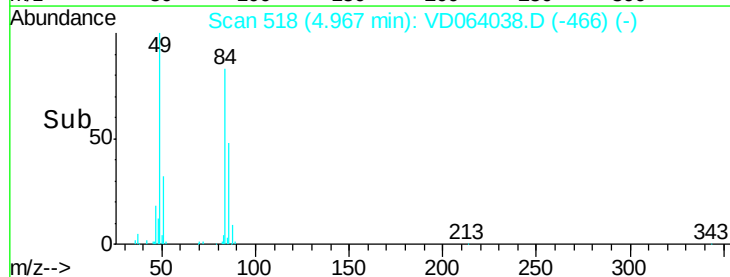
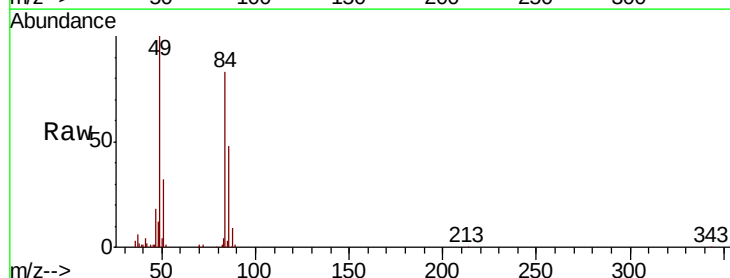
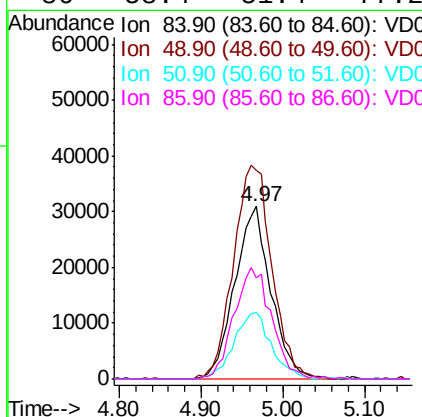
Manual Integrations
APPROVED

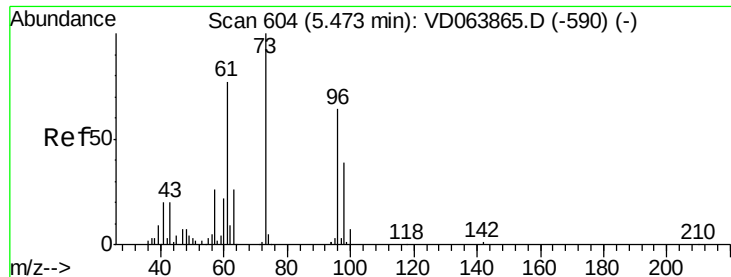
MMDadoda
10/25/2019 4:48:03 PM



#20
Methylene Chloride
Concen: 45.229 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
84	100		
49	120.8	97.3	145.9
51	38.7	30.1	45.1
86	58.4	51.4	77.2





#21

trans-1,2-Dichloroethene

Concen: 47.981 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

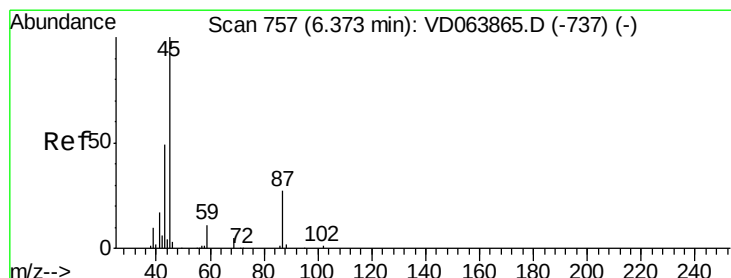
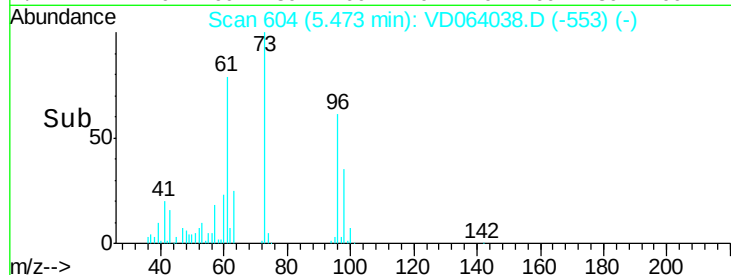
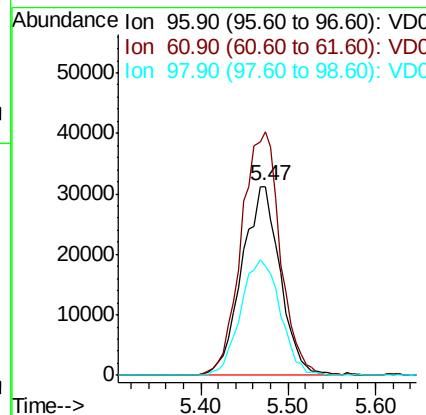
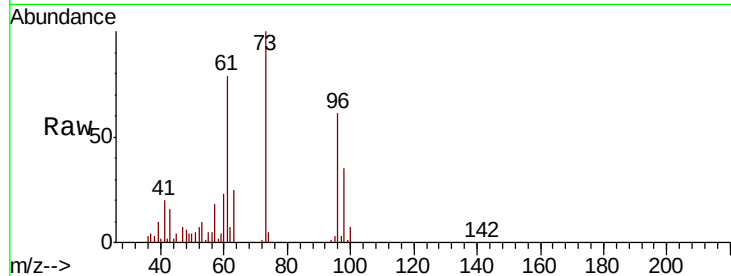
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	92915
Ion	Ratio	Lower	Upper
96	100		
61	129.0	96.6	145.0
98	57.8	48.7	73.1

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#22

Diisopropyl ether

Concen: 47.541 ug/l

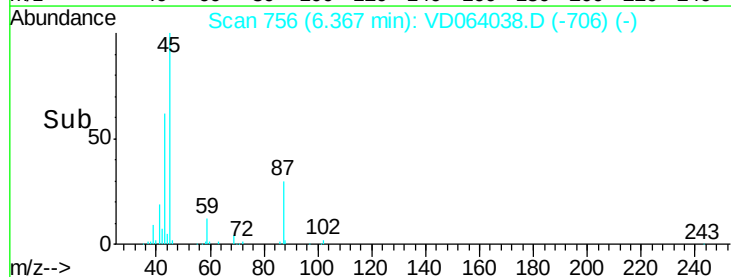
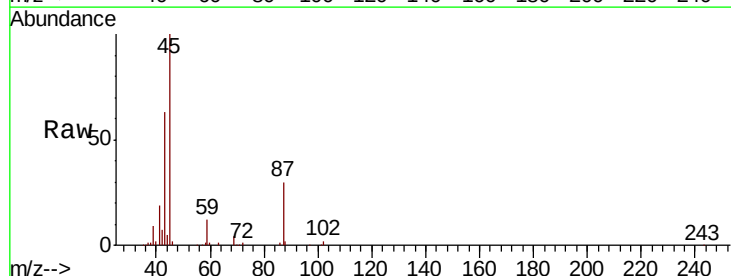
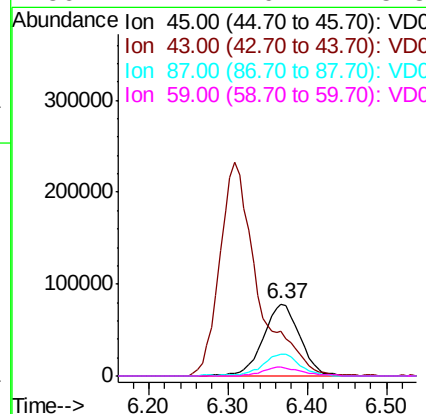
RT: 6.37 min Scan# 756

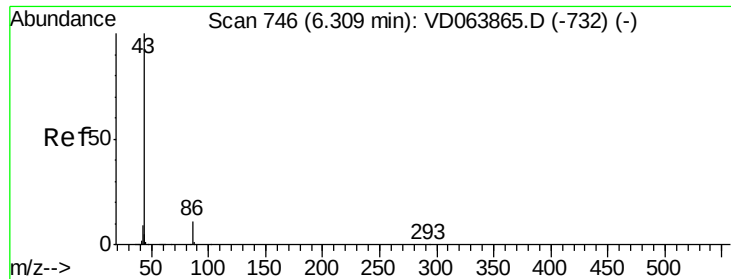
Delta R.T. -0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	45	Resp:	251109
Ion	Ratio	Lower	Upper
45	100		
43	60.9	41.2	61.8
87	29.7	22.2	33.4
59	11.4	9.2	13.8





#23

Vinyl Acetate

Concen: 244.711 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 768914

Ion Ratio Lower Upper

43 100

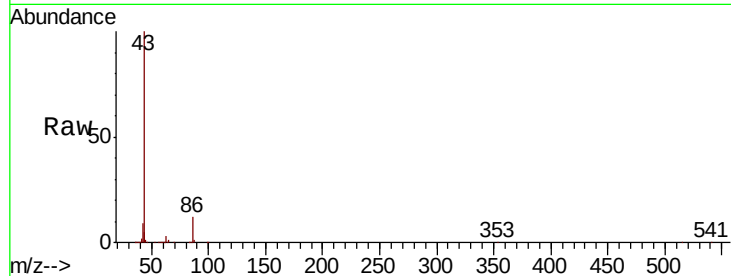
86 11.6 8.8 13.2

Manual Integrations

APPROVED

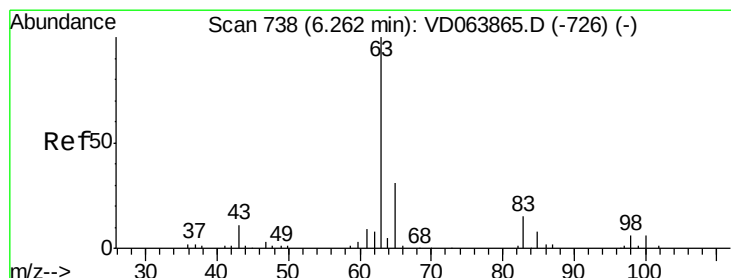
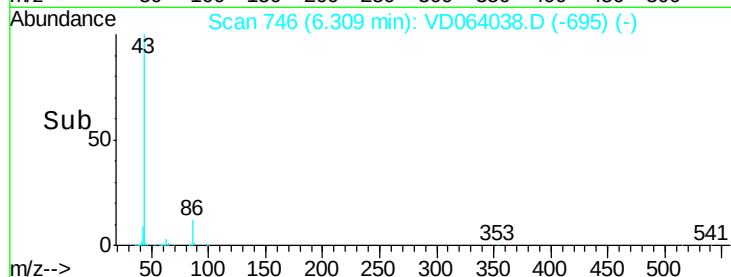
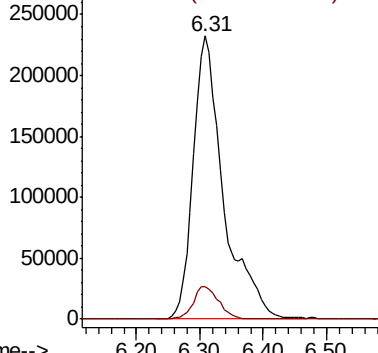
MMDadoda

10/25/2019 4:48:03 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 51.110 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

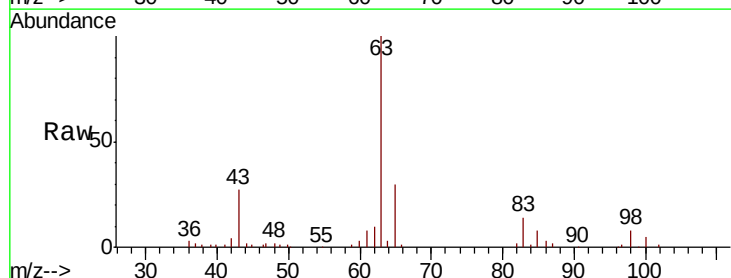
Tgt Ion: 63 Resp: 166283

Ion Ratio Lower Upper

63 100

98 7.6 3.1 9.4

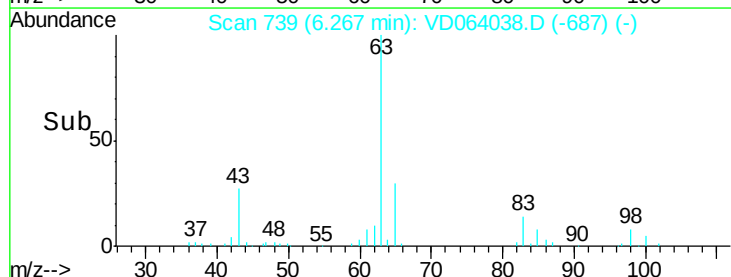
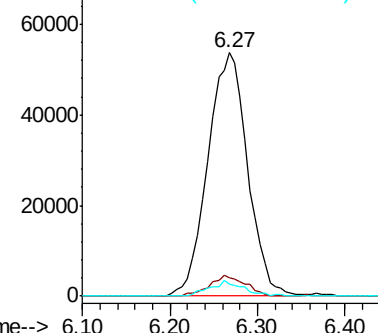
100 4.8 3.0 9.2

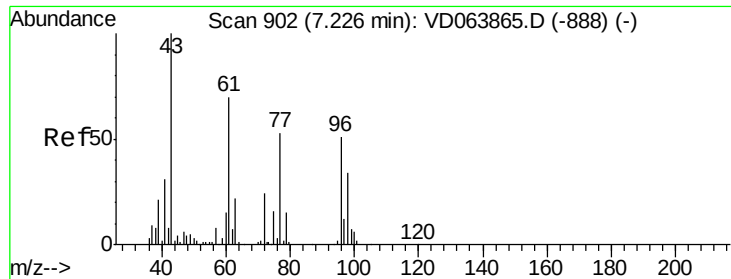


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 247.583 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 138043

Ion Ratio Lower Upper

43 100

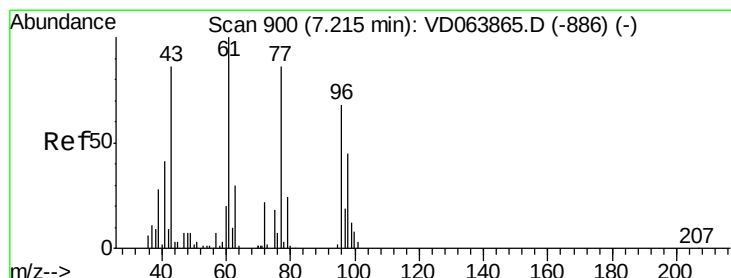
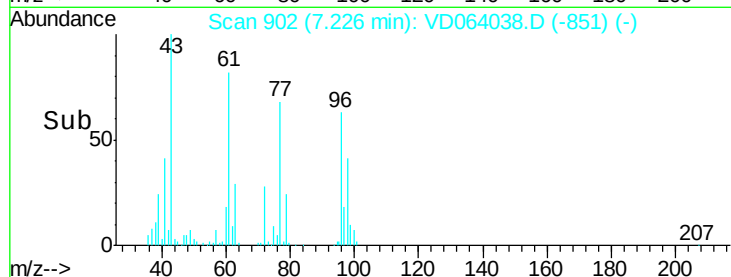
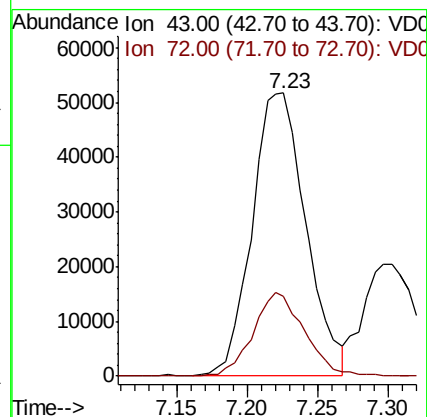
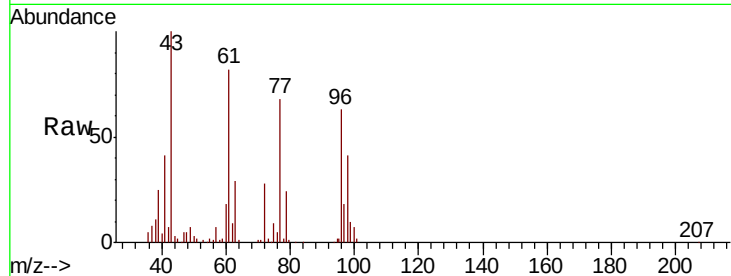
72 28.6 19.2 28.8

Manual Integrations

APPROVED

MMDadoda

10/25/2019 4:48:03 PM



#26

2,2-Dichloropropane

Concen: 49.538 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD064038.D

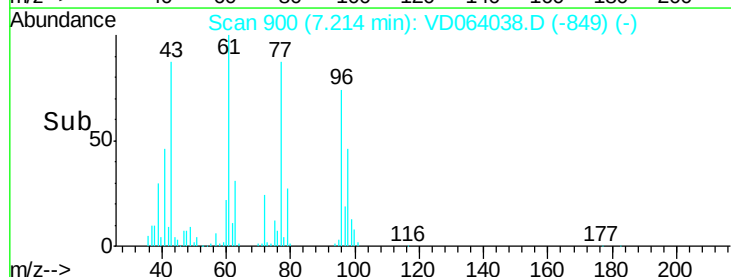
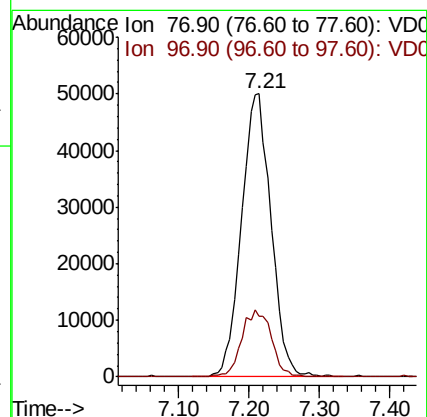
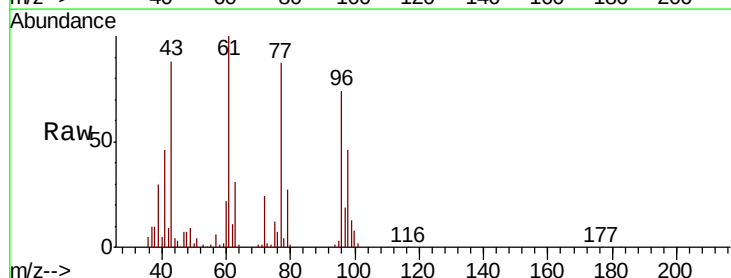
Acq: 24 Oct 2019 10:52

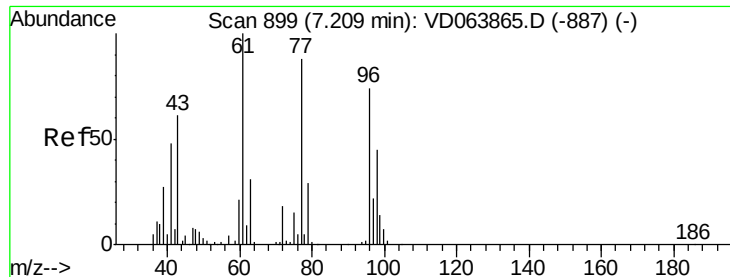
Tgt Ion: 77 Resp: 145791

Ion Ratio Lower Upper

77 100

97 23.5 11.4 34.1





#27

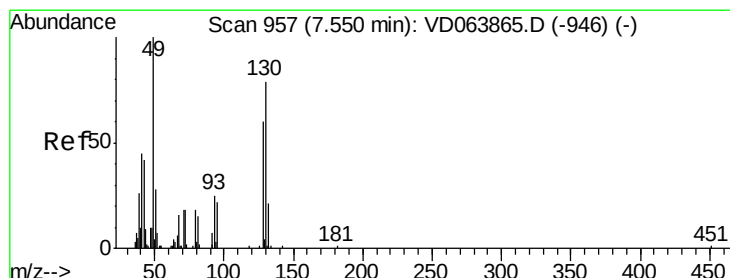
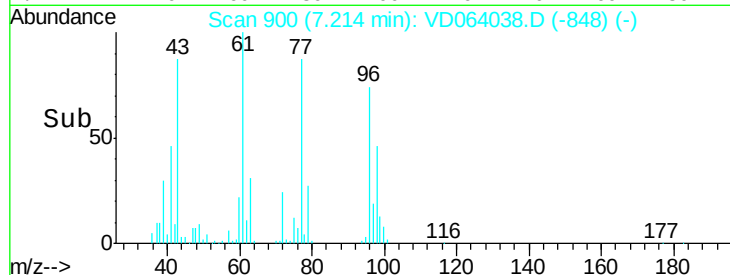
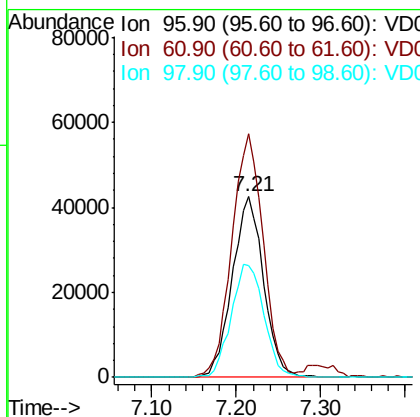
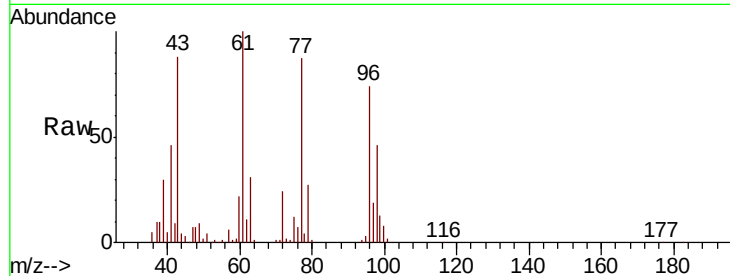
cis-1,2-Dichloroethene
Concen: 49.608 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	135.3	0.0	280.0	
98	65.8	0.0	130.4	

Manual Integrations
APPROVED

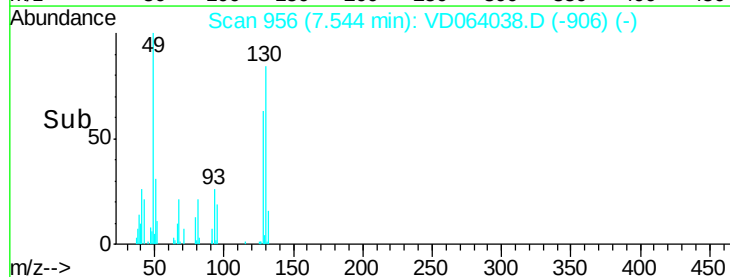
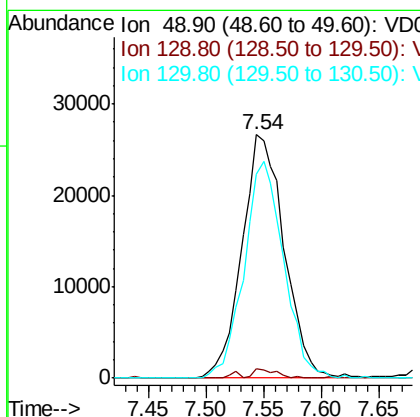
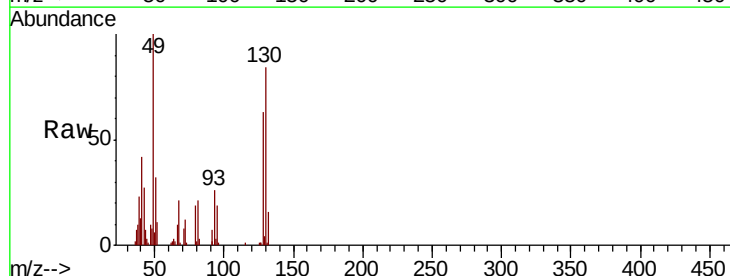
MMDadoda
10/25/2019 4:48:03 PM

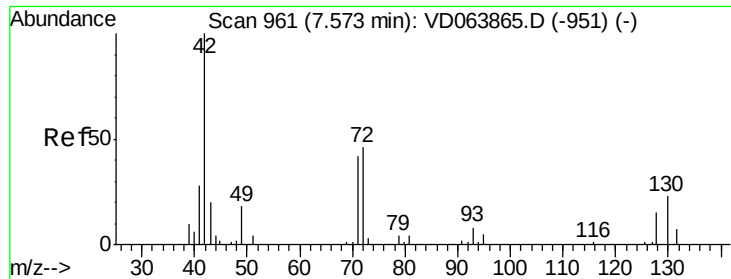


#28

Bromochloromethane
Concen: 54.527 ug/l
RT: 7.54 min Scan# 956
Delta R.T. -0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.1	0.0	5.6	
130	83.8	66.8	100.2	





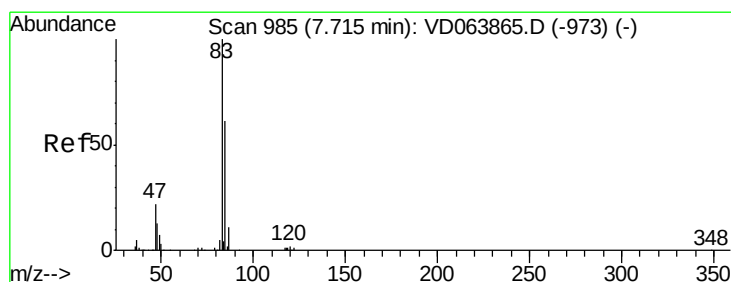
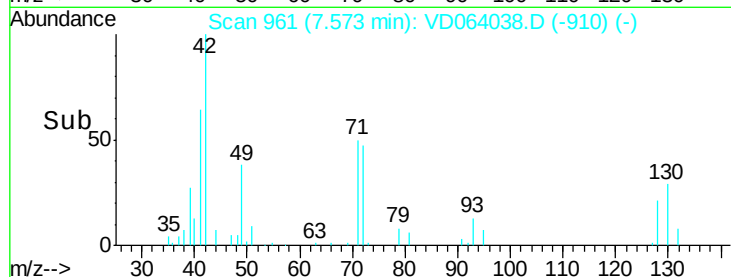
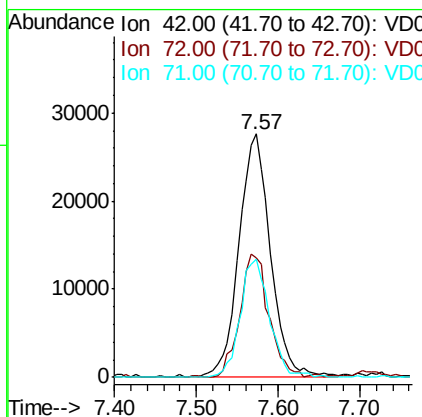
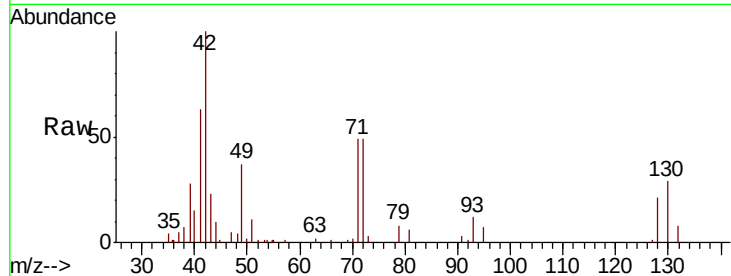
#29
Tetrahydrofuran
Concen: 227.929 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.7	37.6	56.4
71	45.4	35.0	52.6

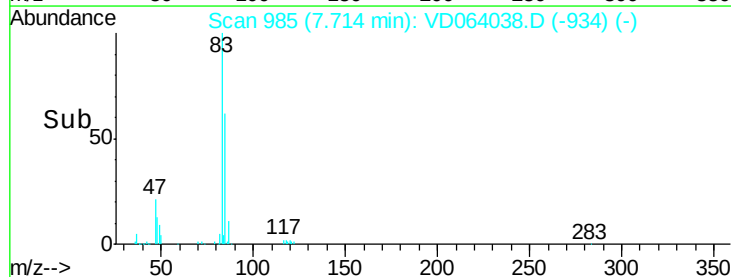
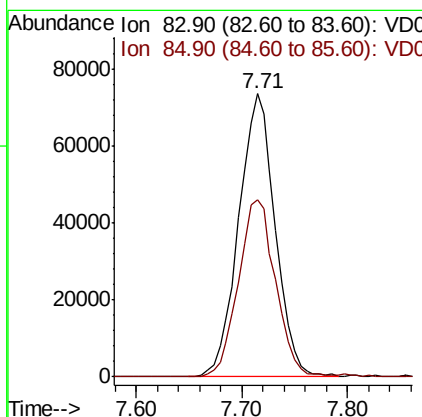
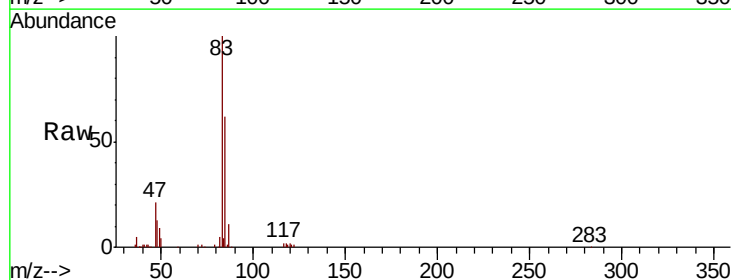
Manual Integrations
APPROVED

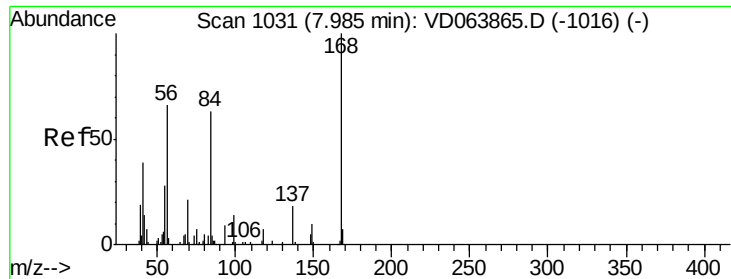
MMDadoda
10/25/2019 4:48:03 PM



#30
Chloroform
Concen: 49.883 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	48.9	73.3





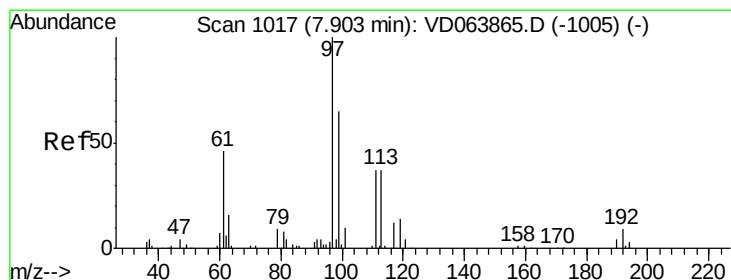
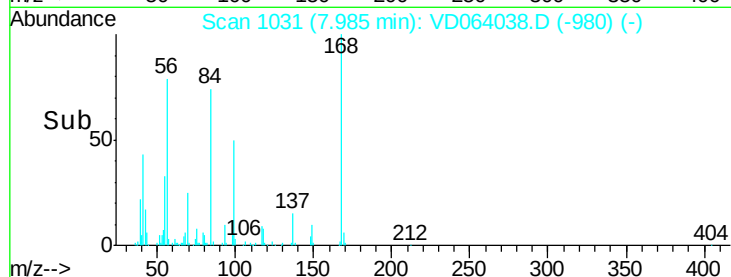
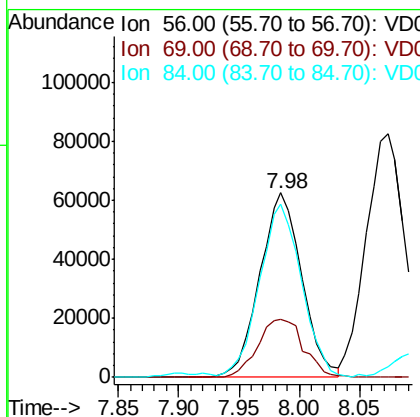
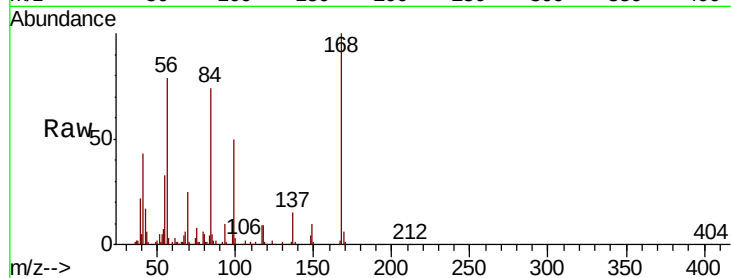
#31
Cyclohexane
Concen: 56.459 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	25.0	37.4
84	92.0	76.3	114.5

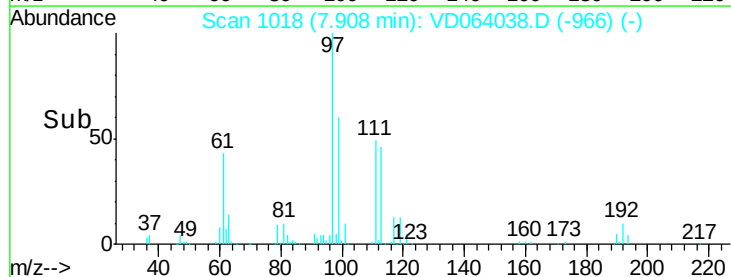
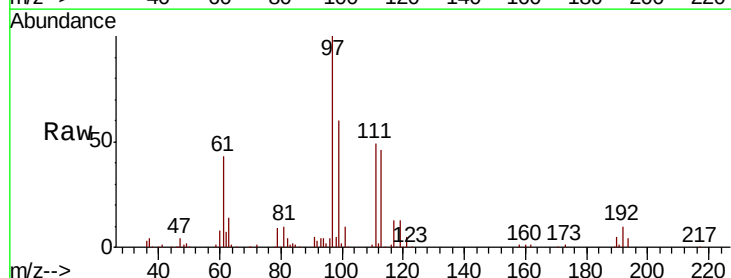
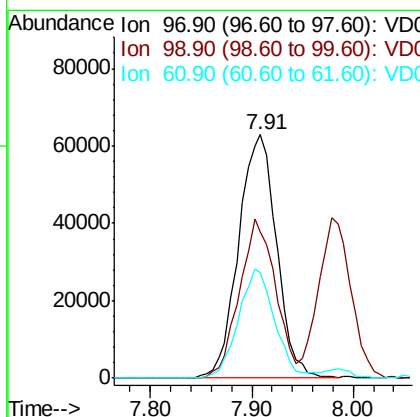
Manual Integrations
APPROVED

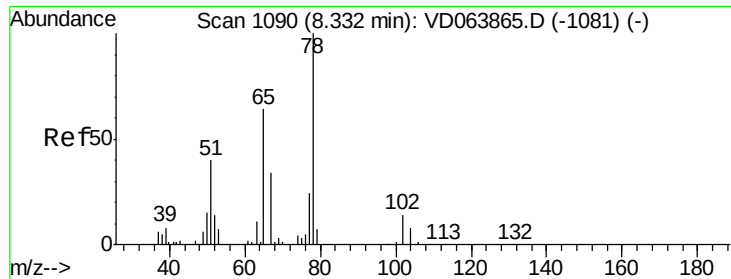
MMDadoda
10/25/2019 4:48:03 PM



#32
1,1,1-Trichloroethane
Concen: 53.903 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	52.4	78.6
61	43.0	33.8	50.8





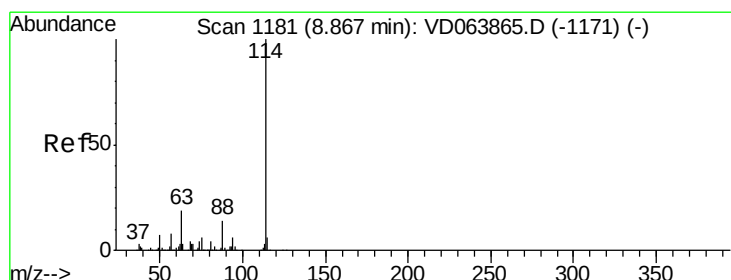
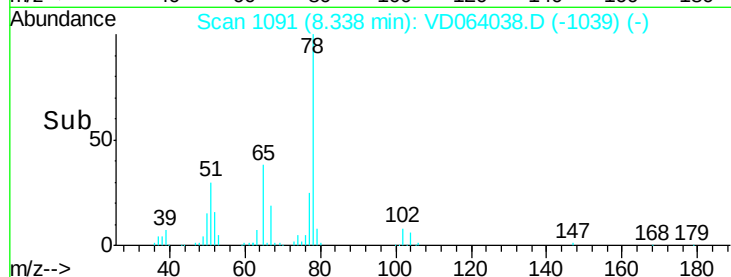
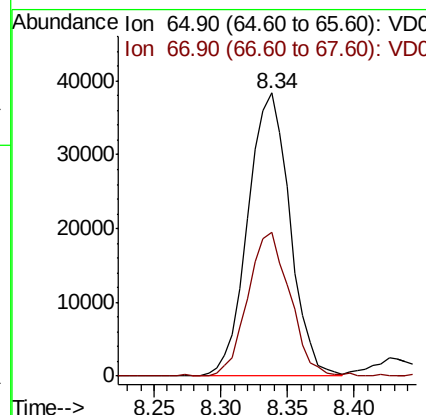
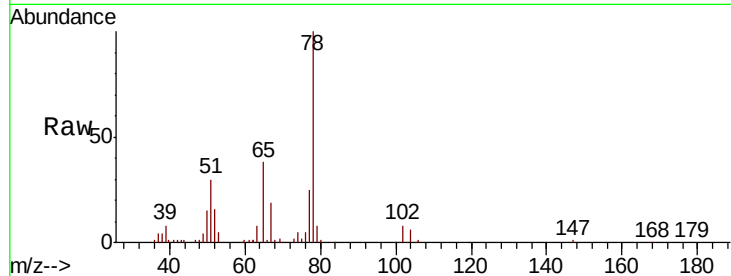
#33
 1,2-Dichloroethane-d4
 Concen: 46.287 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	106.4

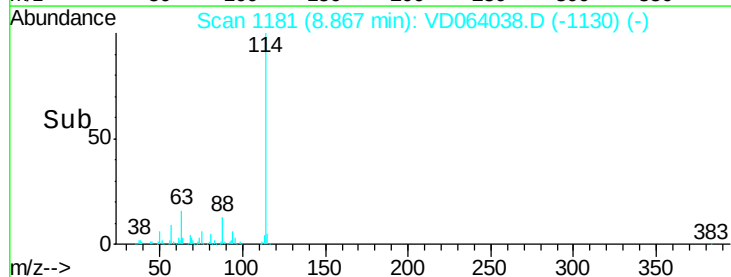
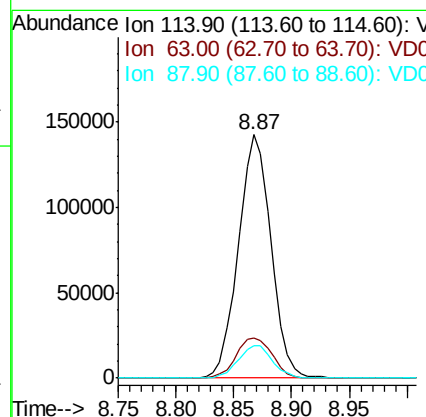
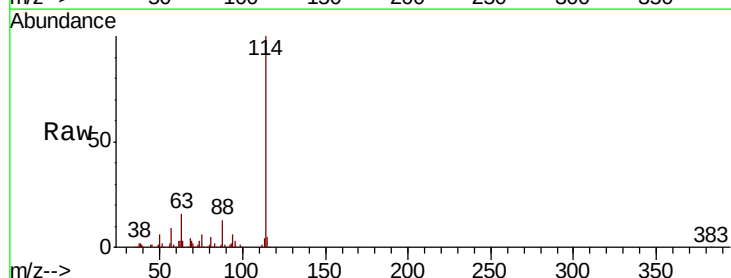
Manual Integrations
 APPROVED

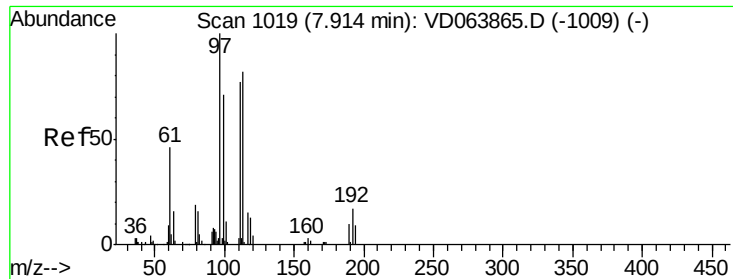
MMDadoda
 10/25/2019 4:48:03 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
114	100		
63	16.4	0.0	38.4
88	13.1	0.0	27.4





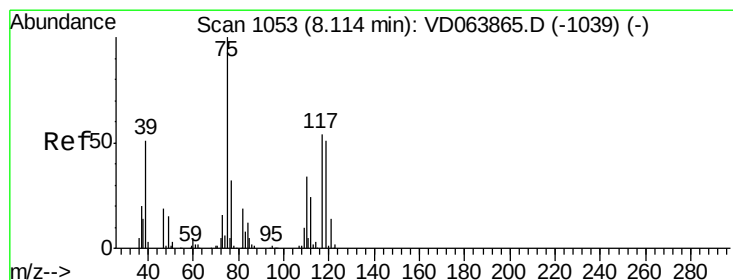
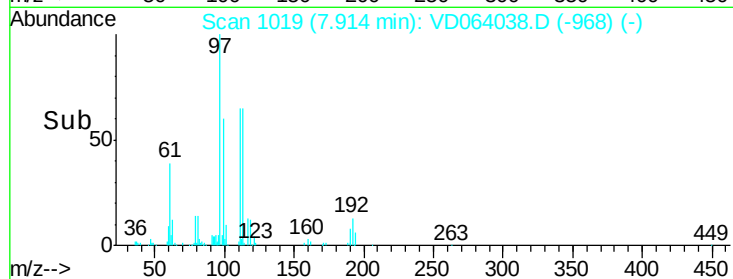
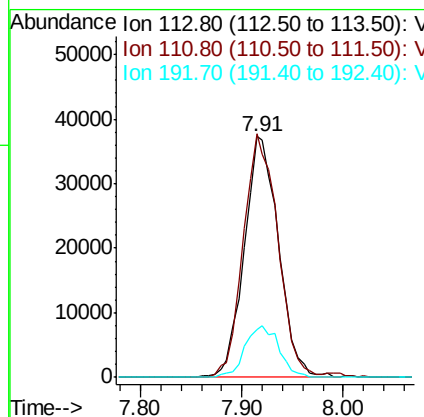
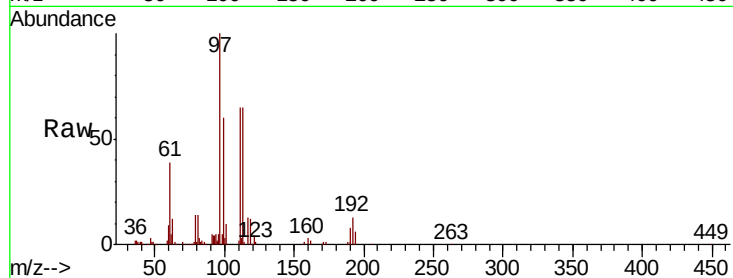
#35
 Dibromofluoromethane
 Concen: 51.418 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.6	123.8
192	21.3	17.1	25.7

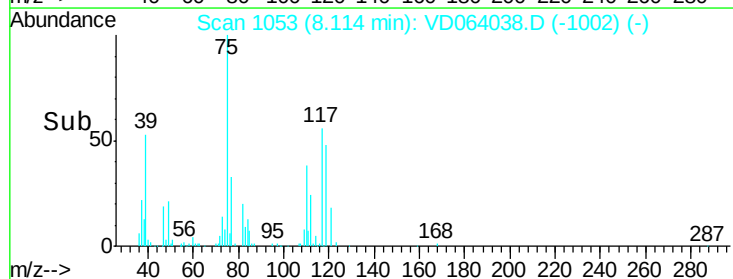
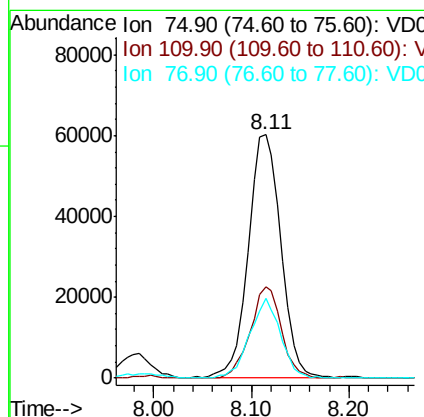
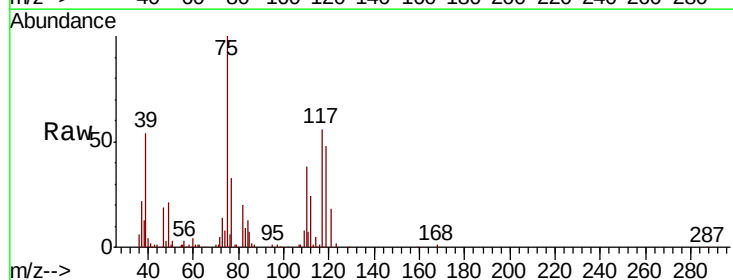
Manual Integrations
 APPROVED

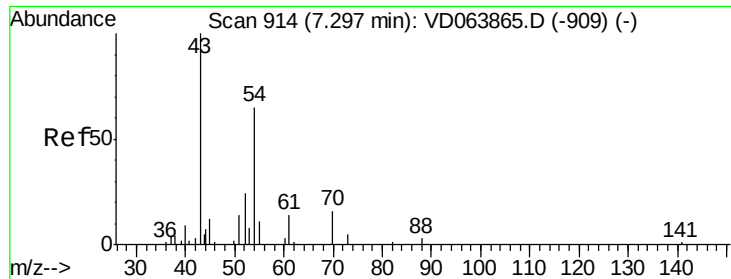
MMDadoda
 10/25/2019 4:48:03 PM



#36
 1,1-Dichloropropene
 Concen: 55.038 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.4	52.3
77	31.0	25.4	38.0





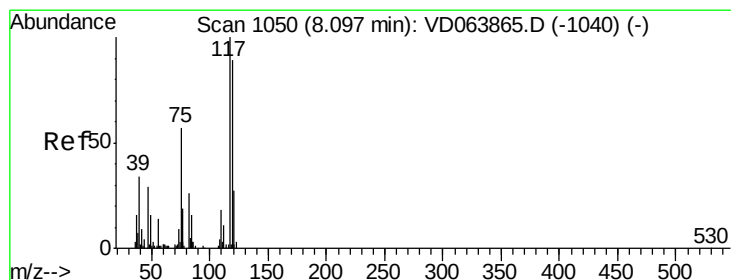
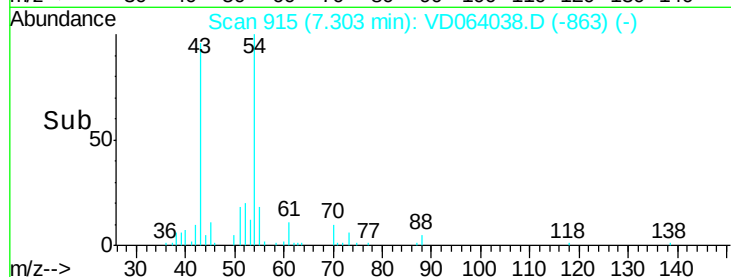
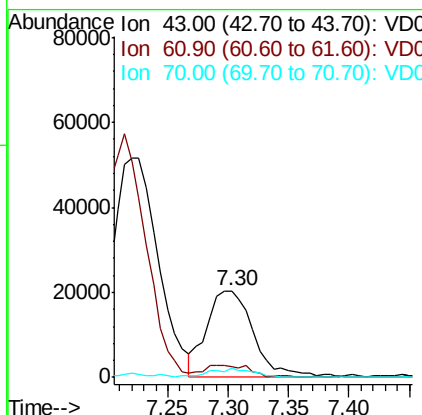
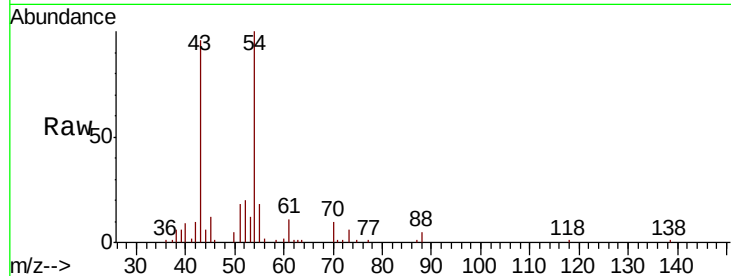
#37
Ethyl Acetate
Concen: 53.029 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.5	17.3
70	10.3	8.2	12.4

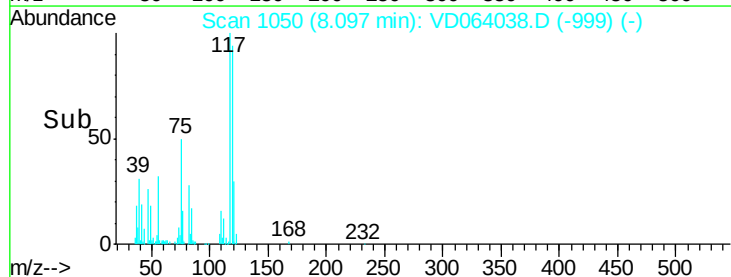
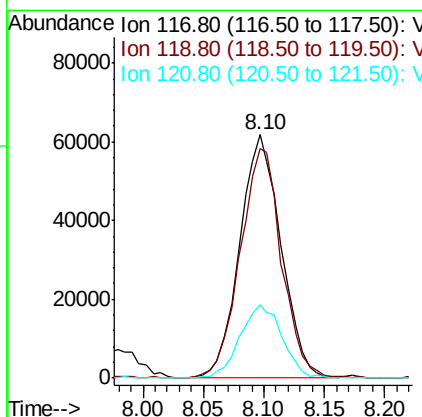
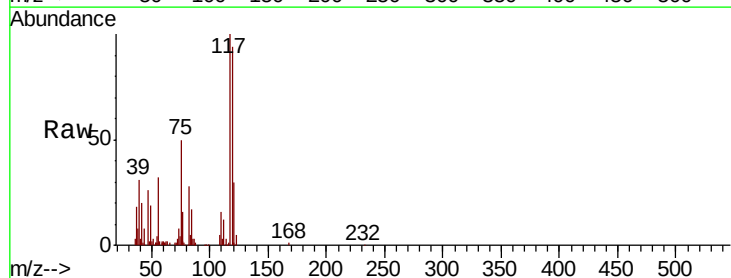
Manual Integrations
APPROVED

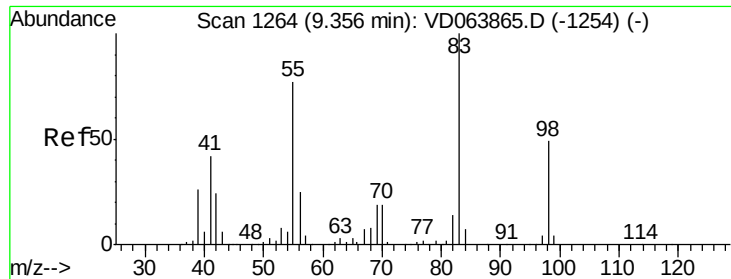
MMDadoda
10/25/2019 4:48:03 PM



#38
Carbon Tetrachloride
Concen: 56.930 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	70.8	106.2
121	30.2	21.4	32.0





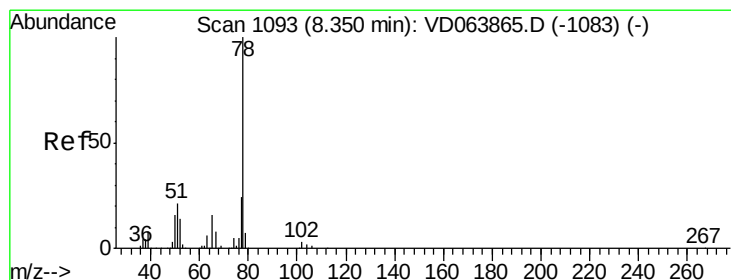
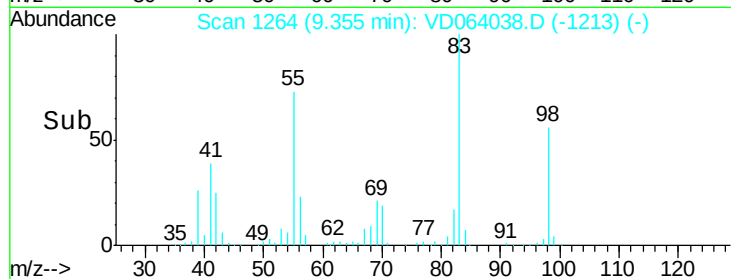
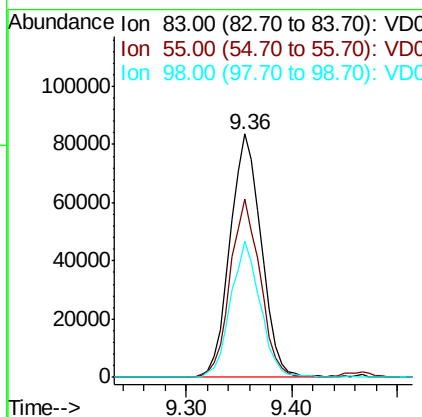
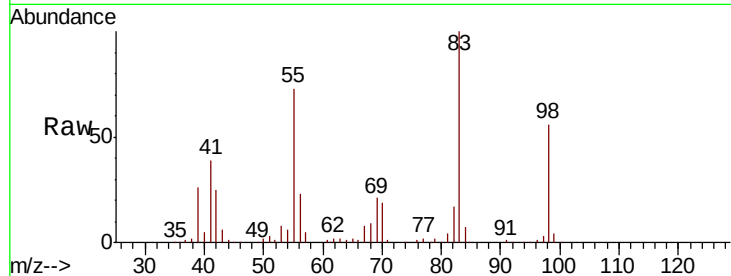
#39
Methylvlcyclohexane
Concen: 54.534 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	171405
Ion Ratio	100	Lower	Upper
83	100		
55	73.1	61.3	91.9
98	55.7	39.3	58.9

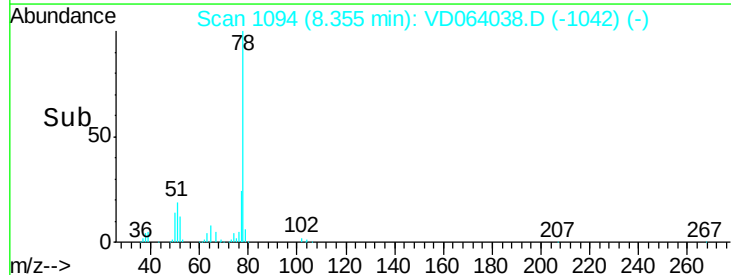
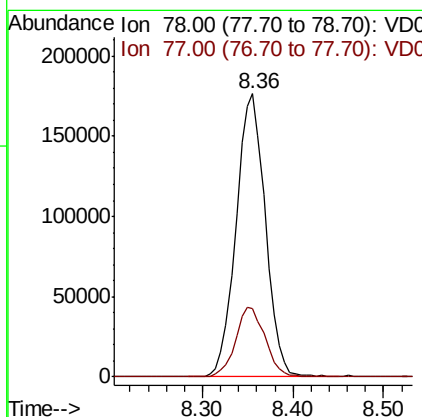
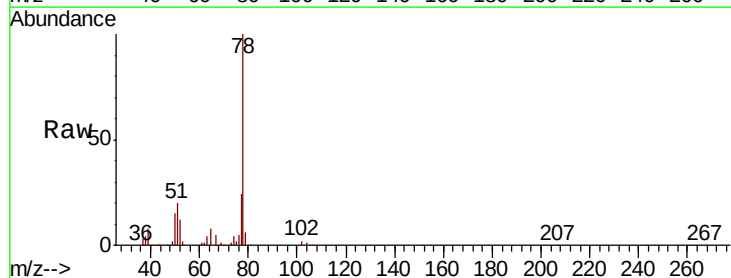
Manual Integrations
APPROVED

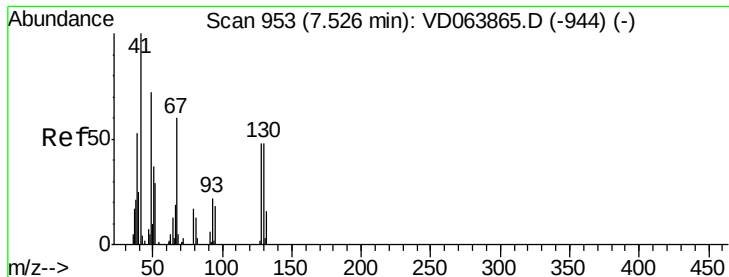
MMDadoda
10/25/2019 4:48:03 PM



#40
Benzene
Concen: 54.092 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	78.00	Resp	396251
Ion Ratio	100	Lower	Upper
78	100		
77	24.3	19.0	28.6





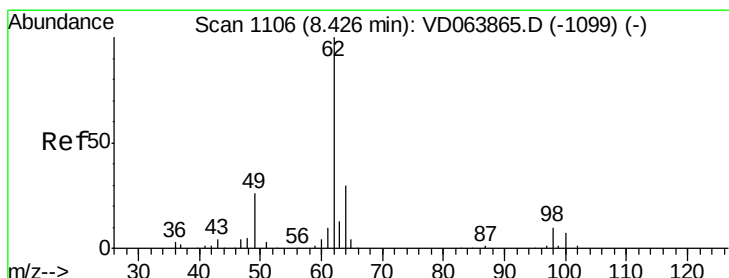
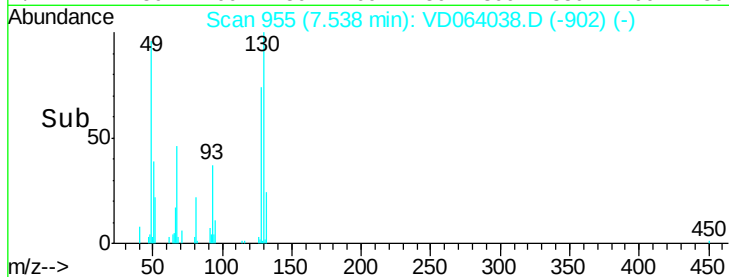
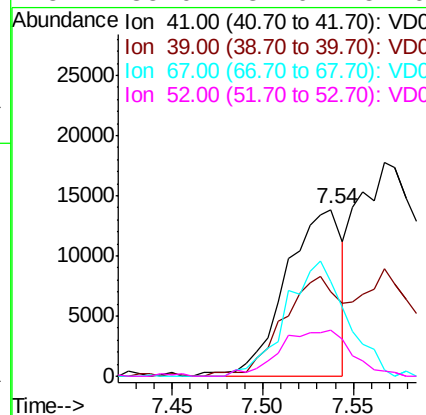
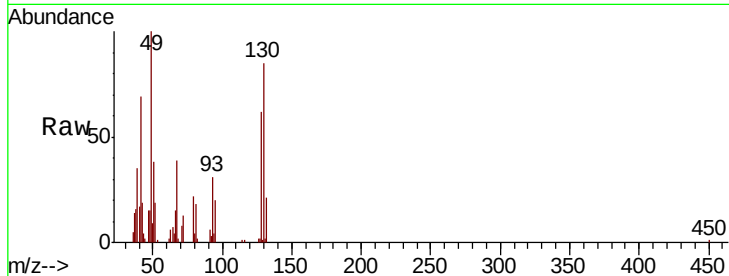
#41
Methacrylonitrile
Concen: 50.609 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	29994
Ion	Ratio	Lower	Upper
41	100		
39	59.7	52.6	78.8
67	73.9	74.2	111.2#
52	35.0	34.0	51.0

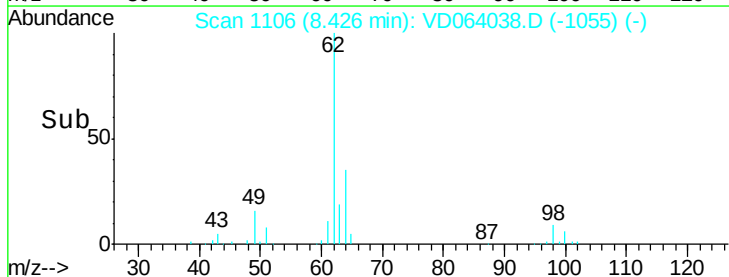
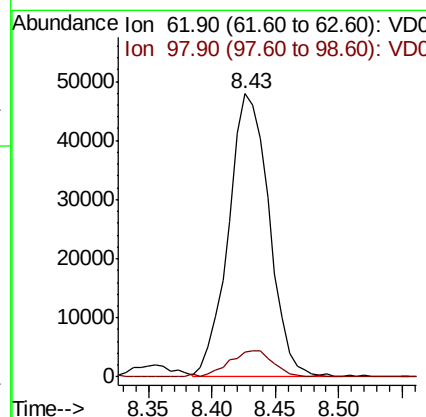
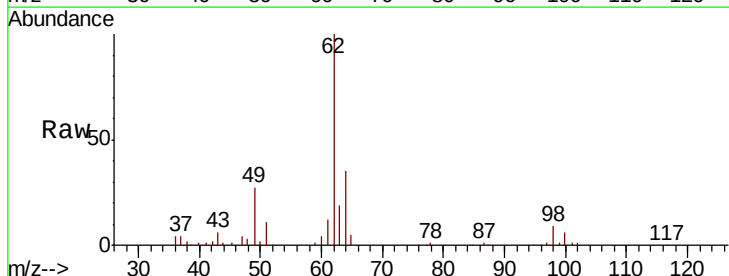
Manual Integrations
APPROVED

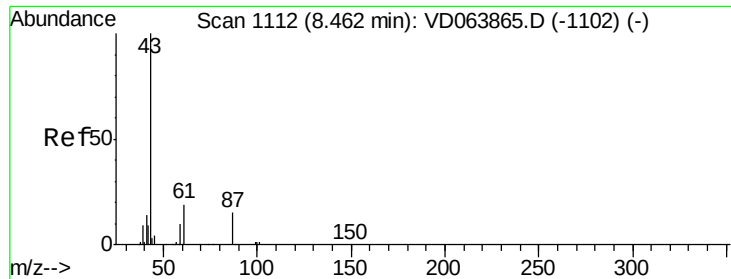
MMDadoda
10/25/2019 4:48:03 PM



#42
1,2-Dichloroethane
Concen: 49.902 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	62	Resp	105743
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.0





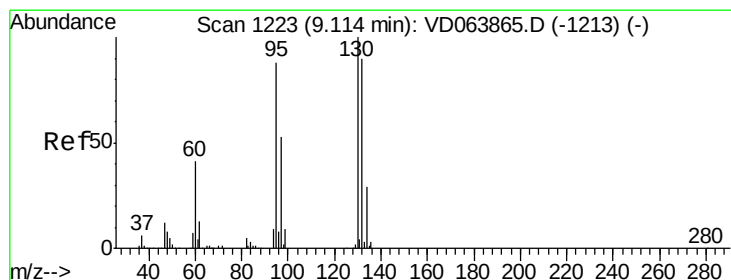
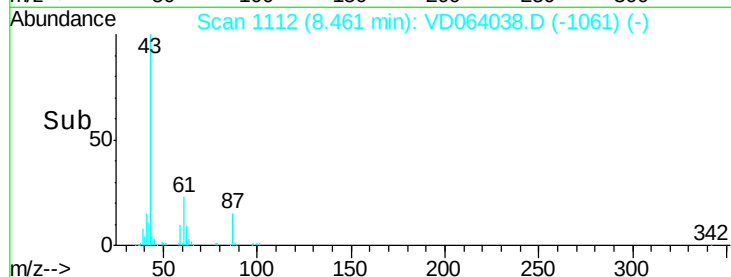
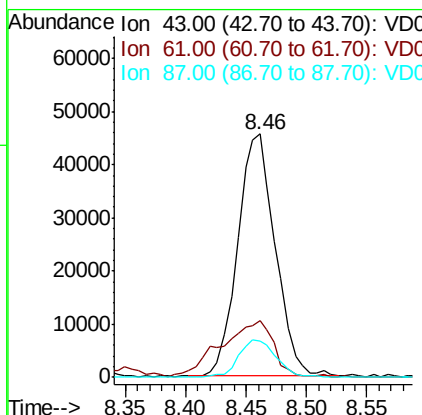
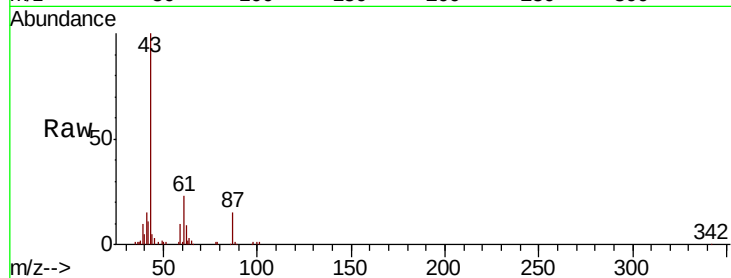
#43
Isopropyl Acetate
Concen: 45.826 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.2	25.7	38.5
87	15.5	11.6	17.4

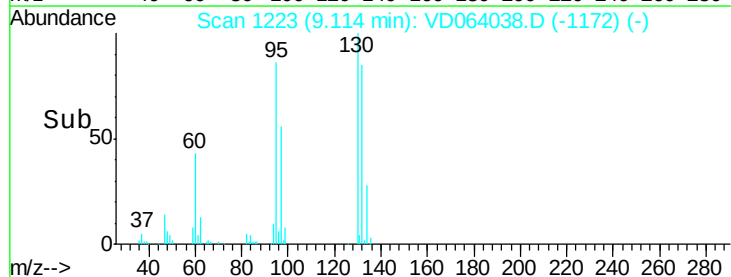
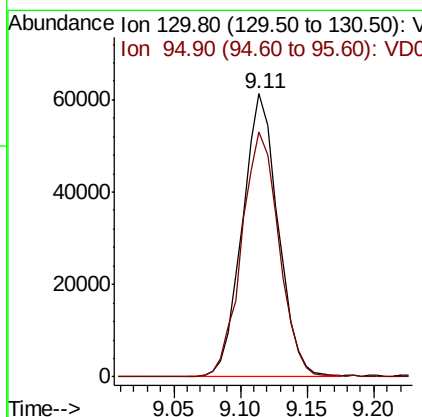
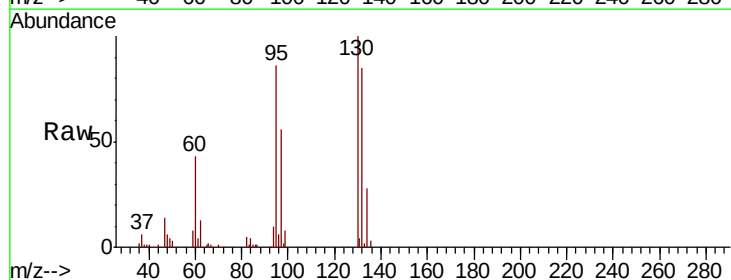
Manual Integrations
APPROVED

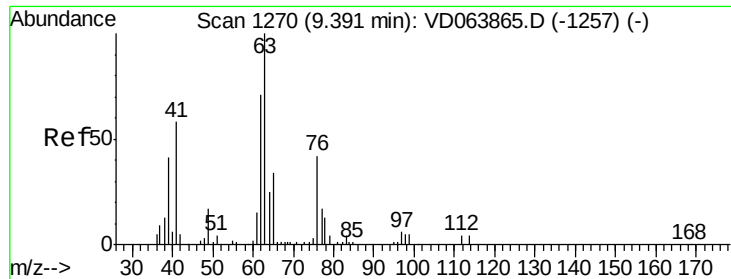
MMDadoda
10/25/2019 4:48:03 PM



#44
Trichloroethene
Concen: 53.715 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.4	0.0	175.6





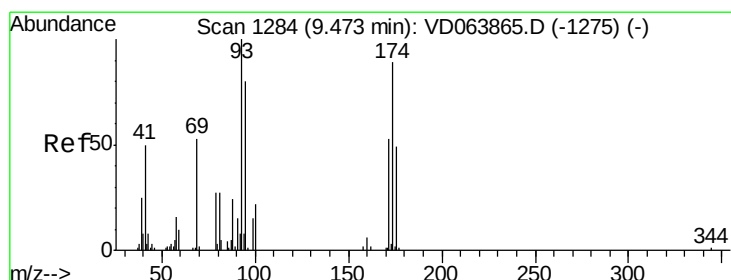
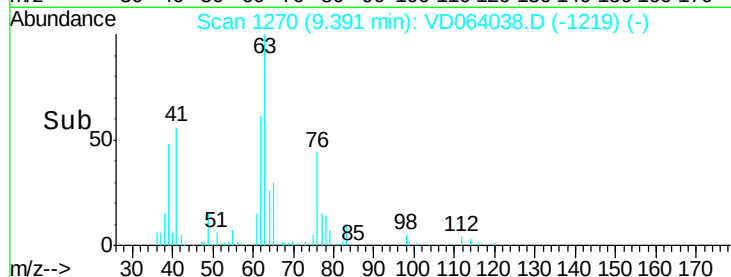
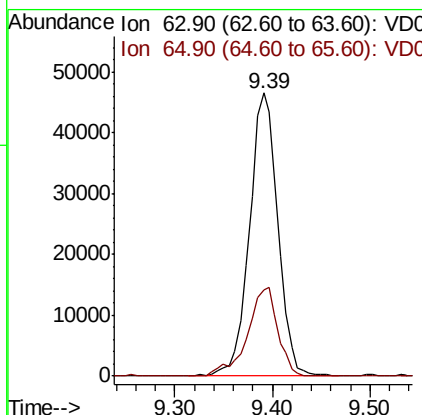
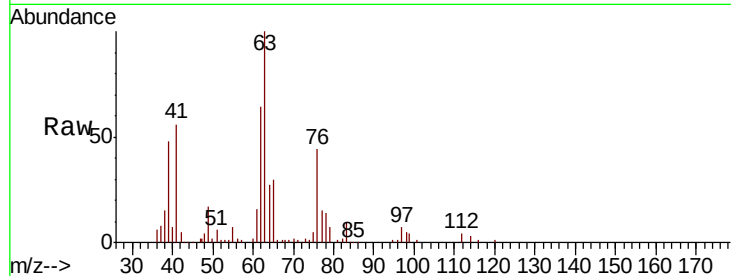
#45
 1,2-Dichloropropane
 Concen: 53.059 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	27.3	40.9

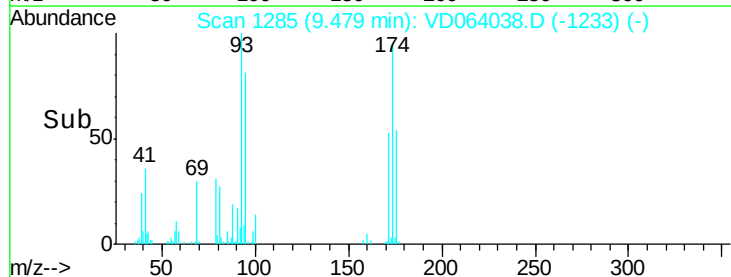
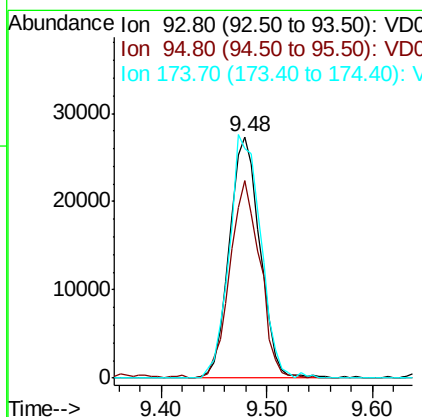
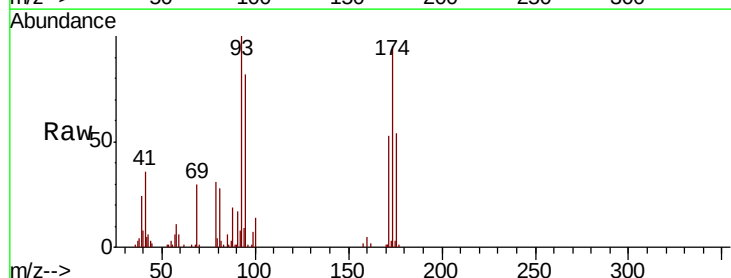
Manual Integrations
 APPROVED

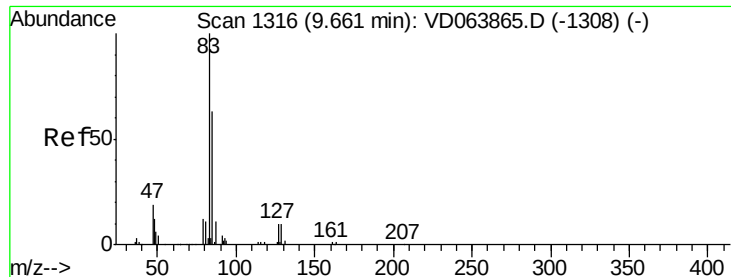
MMDadoda
 10/25/2019 4:48:03 PM



#46
 Dibromomethane
 Concen: 53.545 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.7	66.0	99.0
174	102.9	83.4	125.0





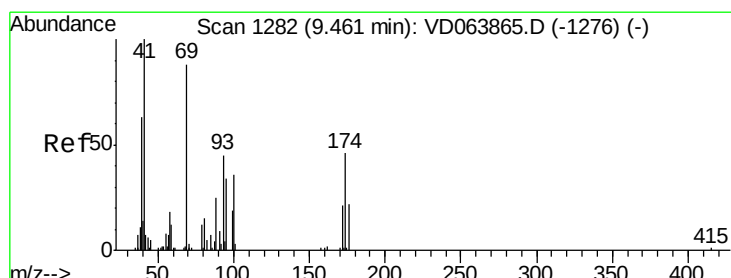
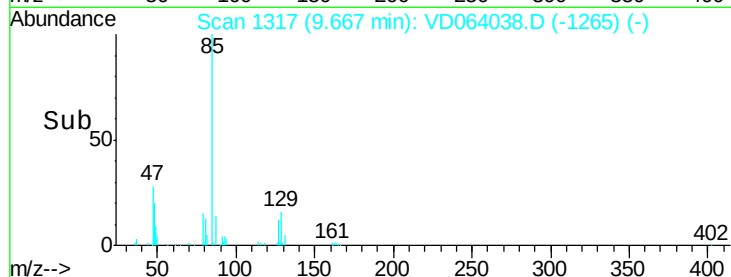
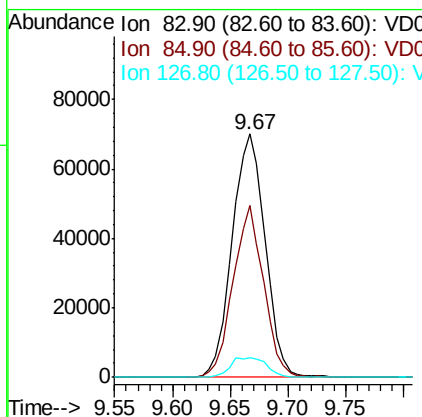
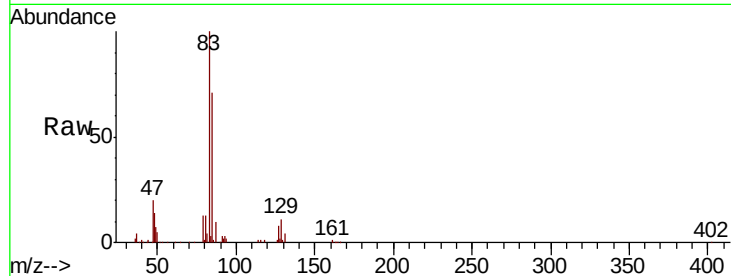
#47
Bromodichloromethane
Concen: 52.939 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	139180
Ion Ratio	Lower	Upper	
83	100		
85	70.6	50.2	75.2
127	8.1	7.6	11.4

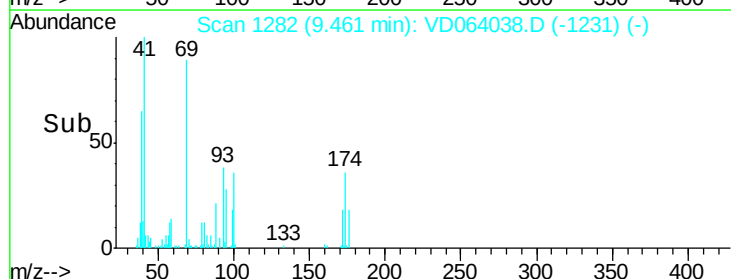
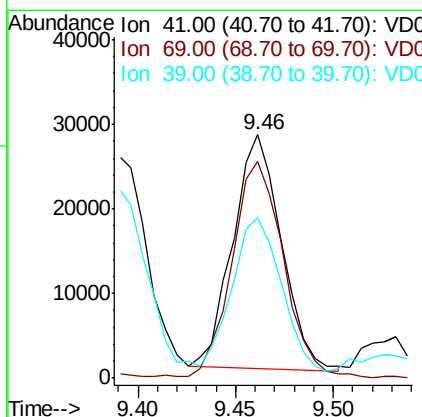
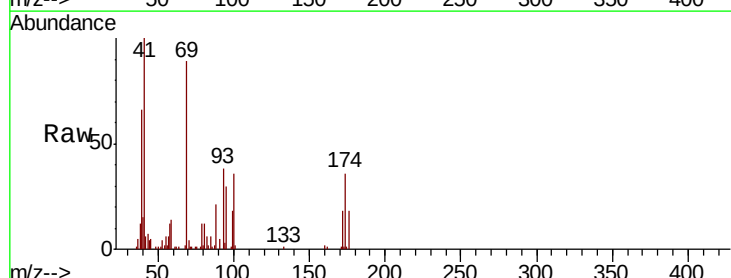
Manual Integrations
APPROVED

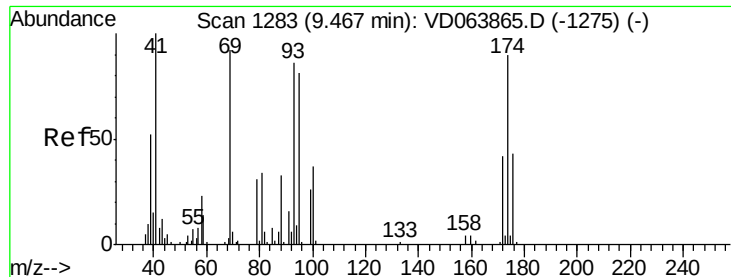
MMDadoda
10/25/2019 4:48:03 PM



#48
Methyl methacrylate
Concen: 46.331 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	41	Resp	47589
Ion Ratio	Lower	Upper	
41	100		
69	98.3	75.1	112.7
39	66.2	50.2	75.2





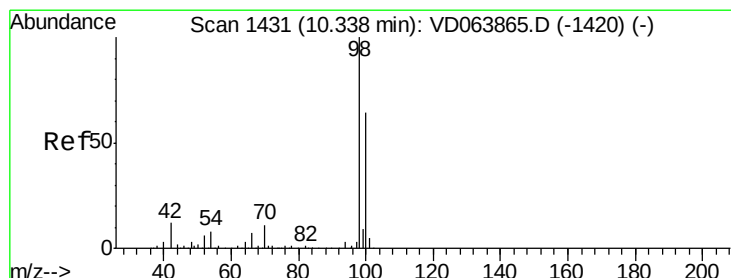
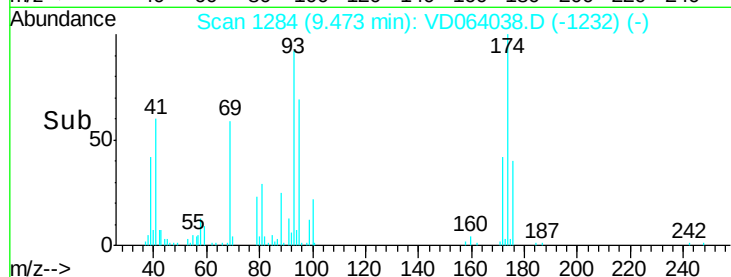
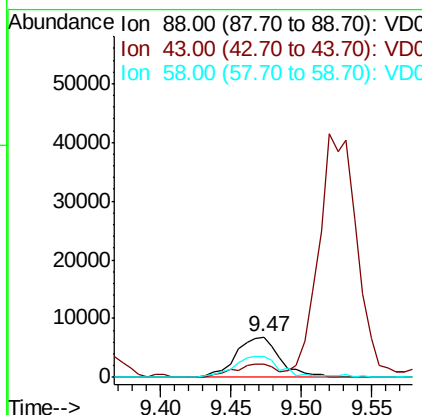
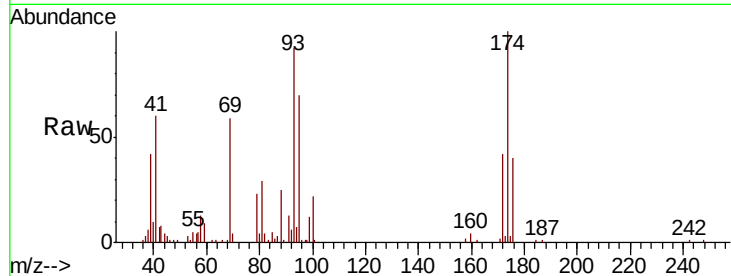
#49
1,4-Dioxane
Concen: 1065.597 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	14853
Ion	Ratio	Lower	Upper
88	100		
43	30.7	27.6	41.4
58	55.9	54.1	81.1

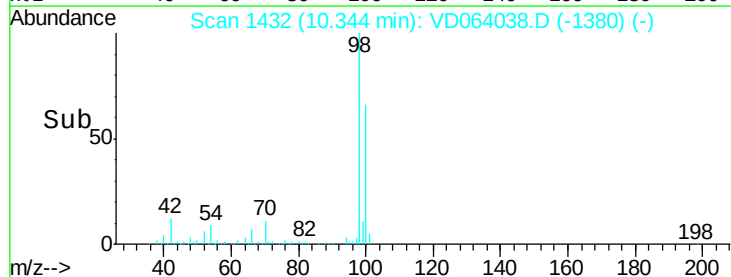
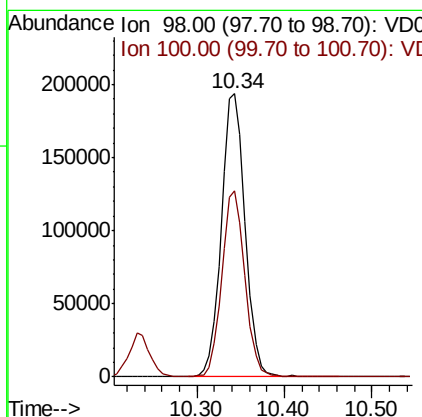
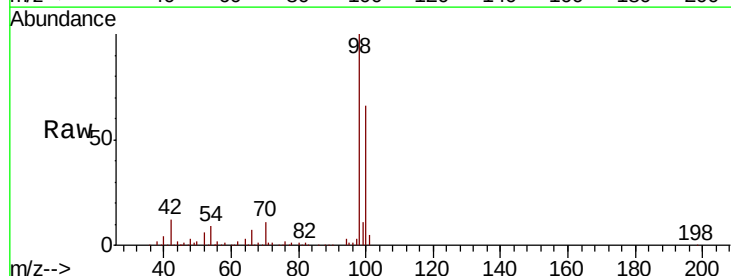
Manual Integrations
APPROVED

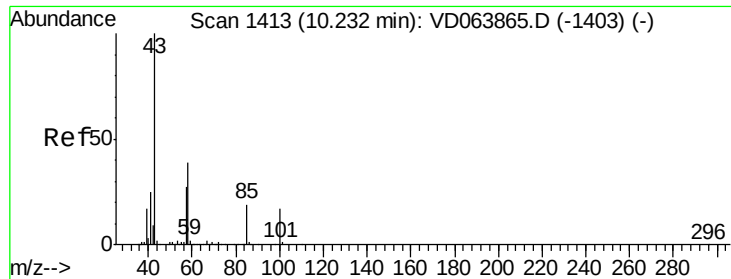
MMDadoda
10/25/2019 4:48:03 PM



#50
Toluene-d8
Concen: 52.248 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	98	Resp	362340
Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.1	78.1





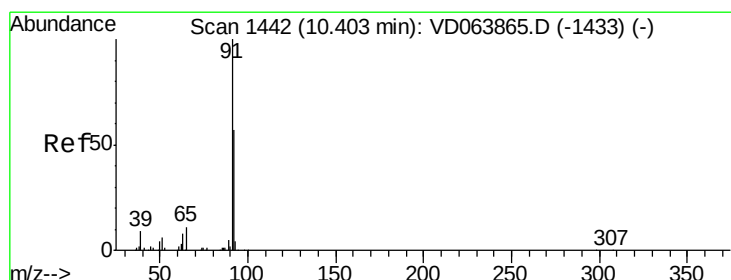
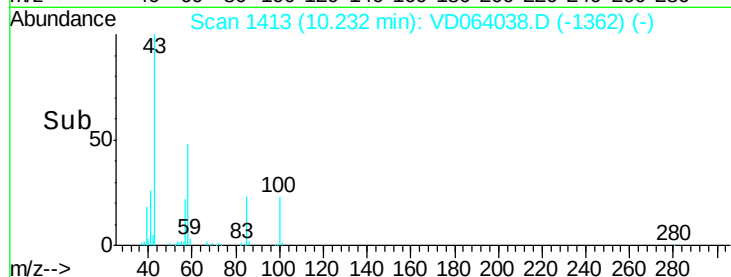
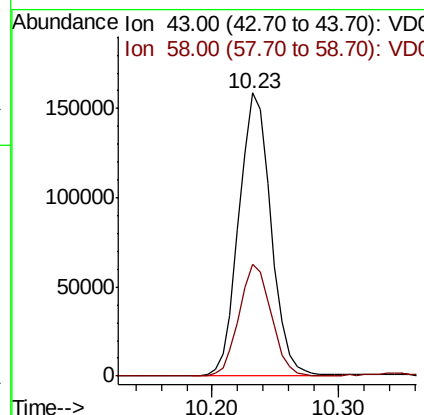
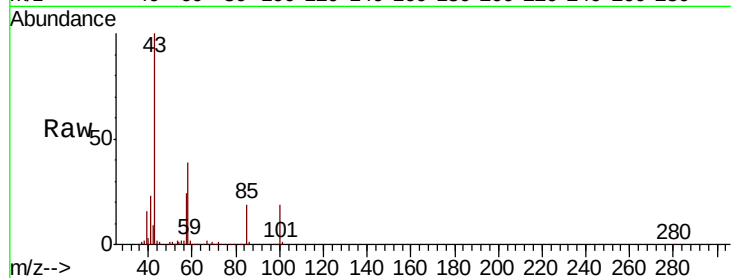
#51
4-Methyl-2-Pentanone
Concen: 251.423 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.7	33.0	49.4

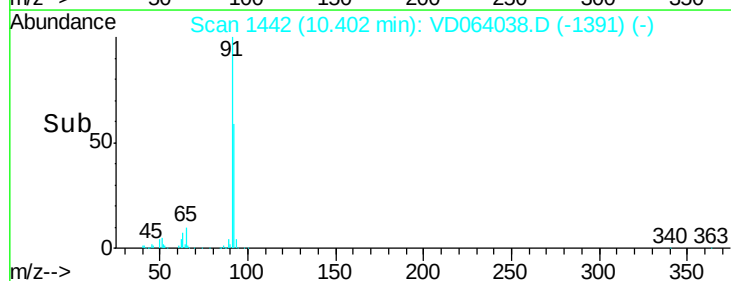
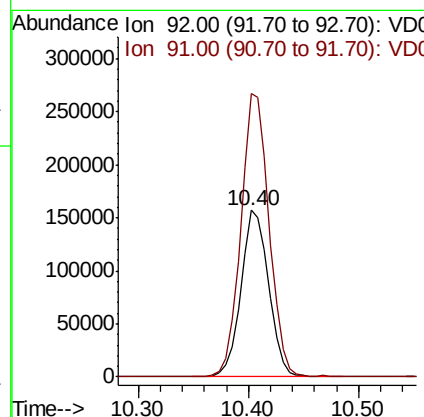
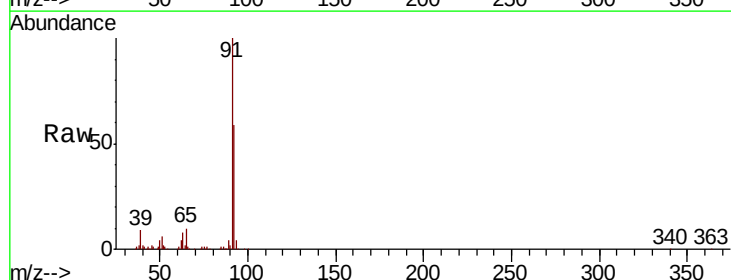
Manual Integrations
APPROVED

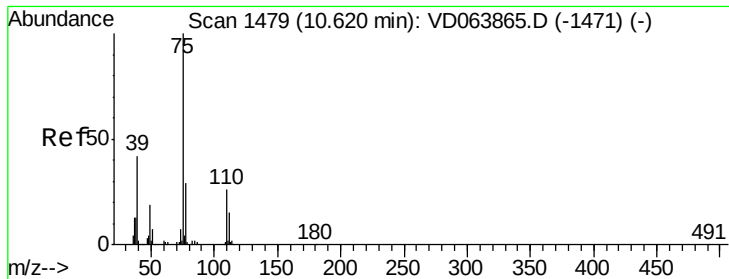
MMDadoda
10/25/2019 4:48:03 PM



#52
Toluene
Concen: 55.220 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
92	100		
91	172.9	139.5	209.3





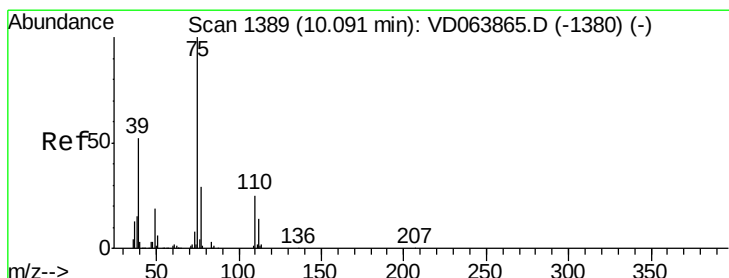
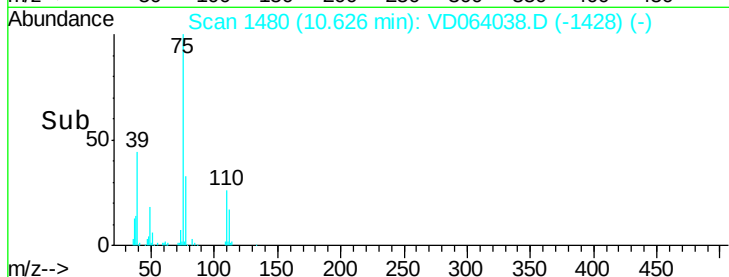
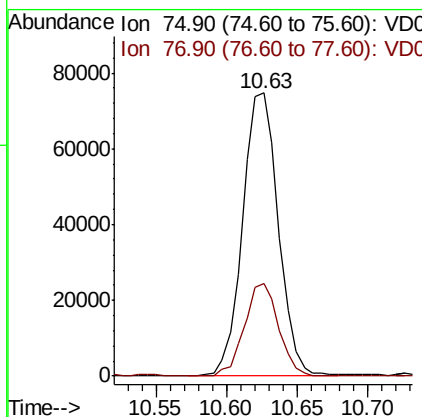
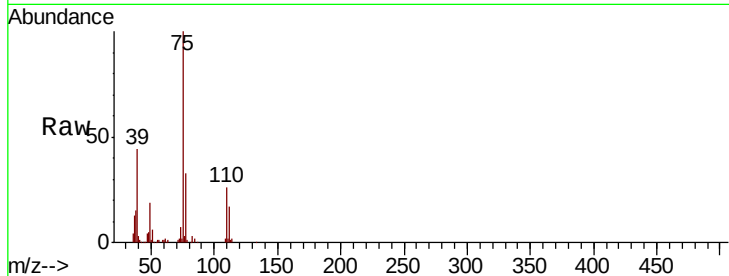
#53
 t-1,3-Dichloropropene
 Concen: 51.708 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 132657
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.8 34.2

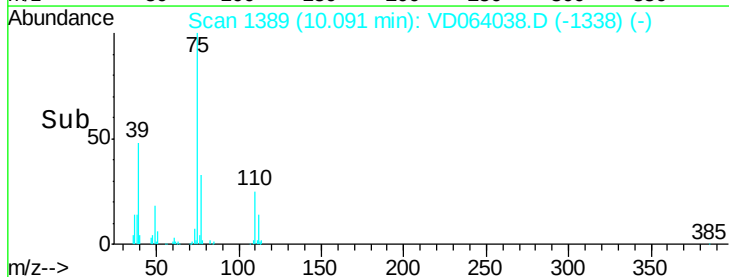
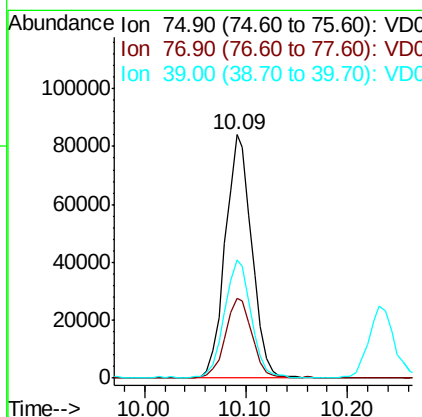
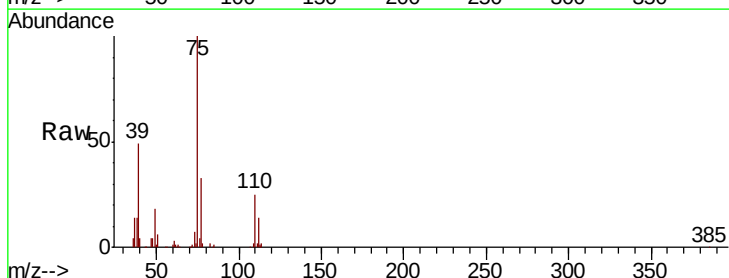
Manual Integrations
 APPROVED

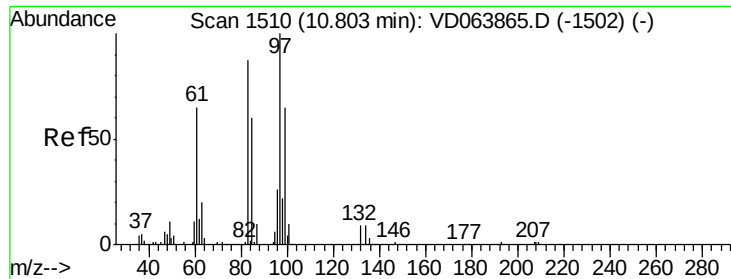
MMDadoda
 10/25/2019 4:48:03 PM



#54
 cis-1,3-Dichloropropene
 Concen: 51.591 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion: 75 Resp: 152357
 Ion Ratio Lower Upper
 75 100
 77 32.9 23.2 34.8
 39 48.7 41.5 62.3





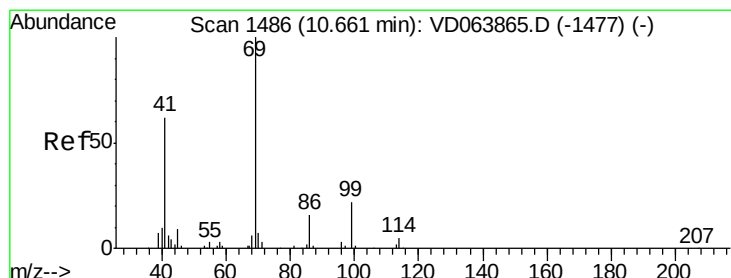
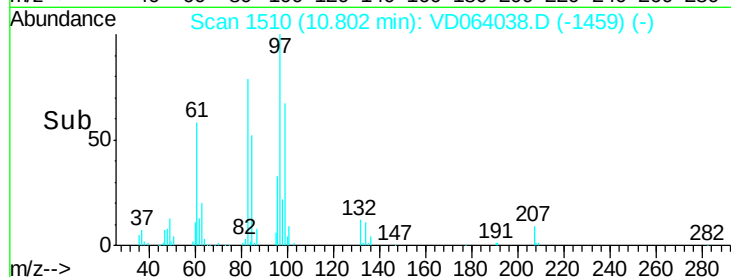
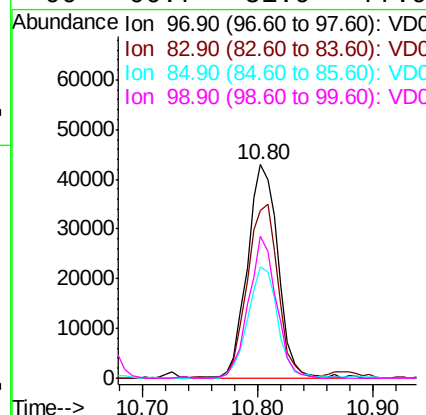
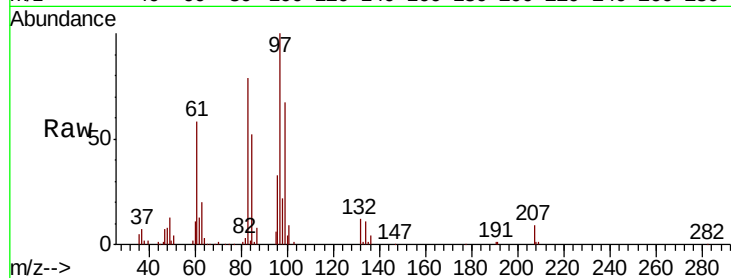
#55
 1,1,2-Trichloroethane
 Concen: 55.295 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	79726
Ion	Ratio	Lower	Upper
97	100		
83	78.1	69.7	104.5
85	52.3	48.1	72.1
99	66.7	51.9	77.9

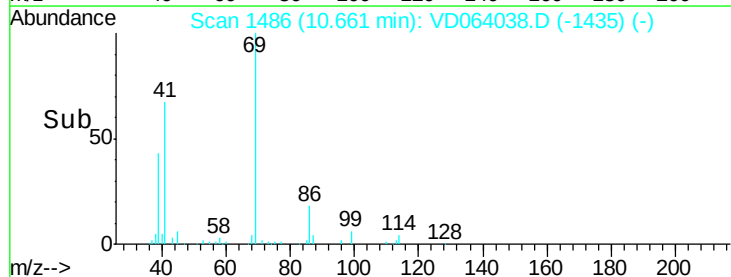
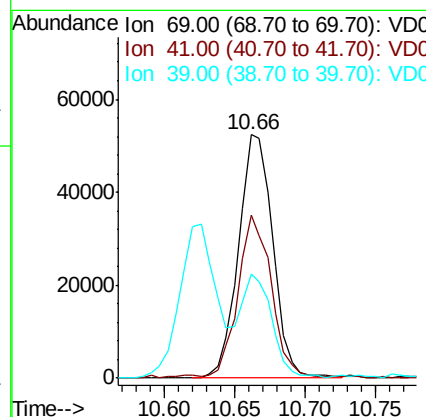
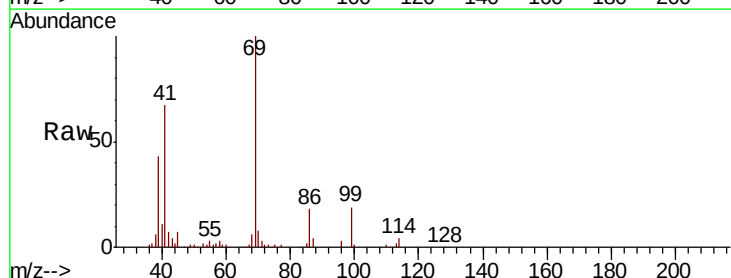
Manual Integrations
 APPROVED

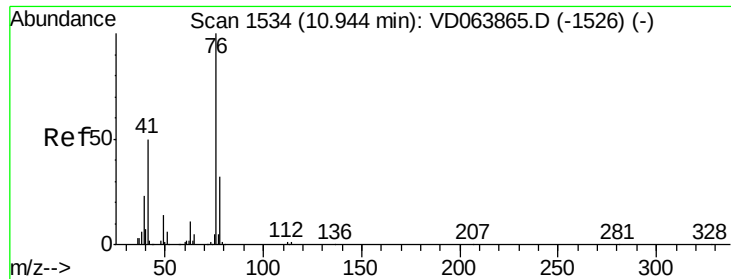
MMDadoda
 10/25/2019 4:48:03 PM



#56
 Ethyl methacrylate
 Concen: 48.952 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion:	69	Resp:	89380
Ion	Ratio	Lower	Upper
69	100		
41	65.2	51.3	76.9
39	40.2	28.0	42.0





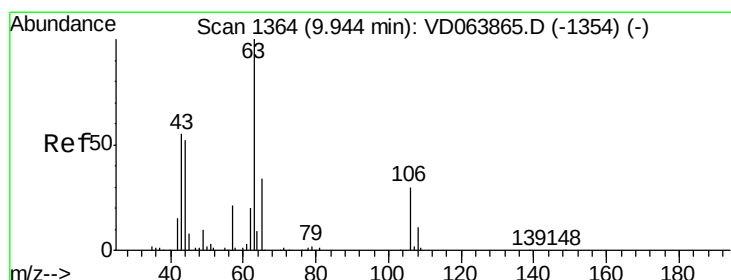
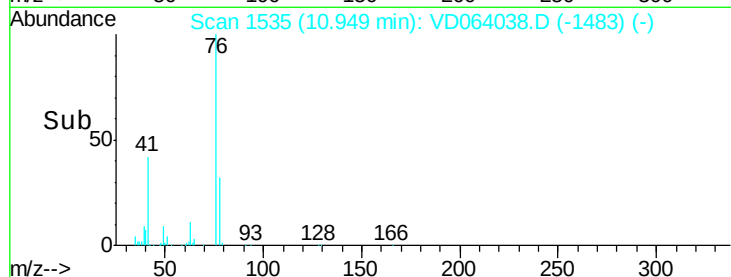
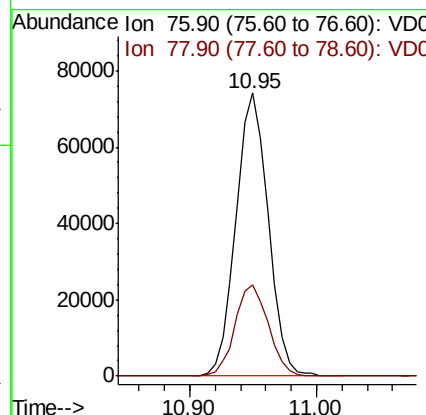
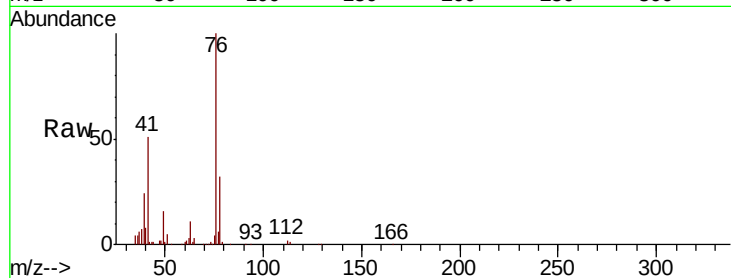
#57
 1,3-Dichloropropane
 Concen: 52.976 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.6	40.0

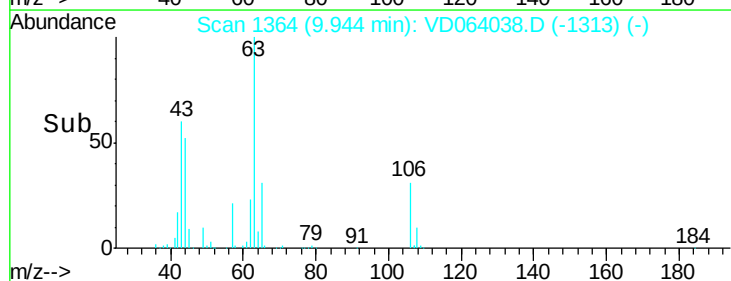
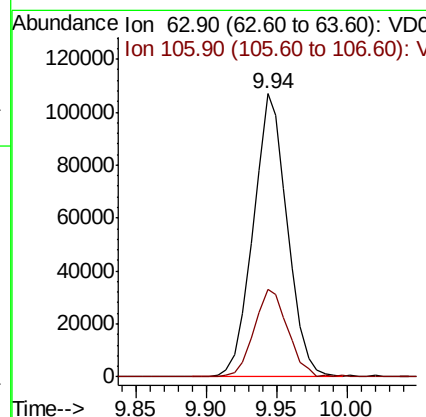
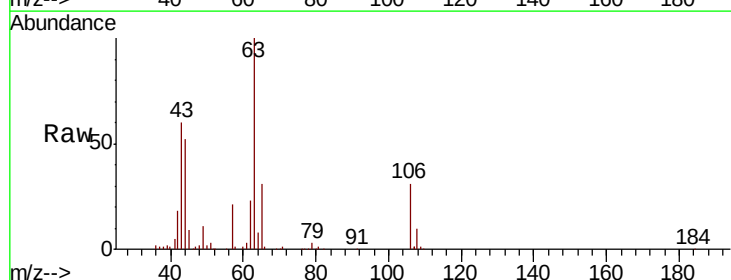
Manual Integrations
 APPROVED

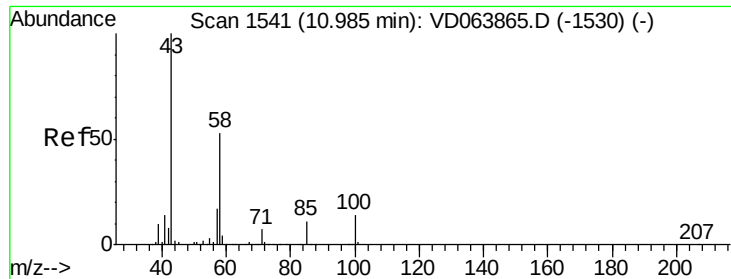
MMDadoda
 10/25/2019 4:48:03 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 230.886 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.9	24.3	36.5





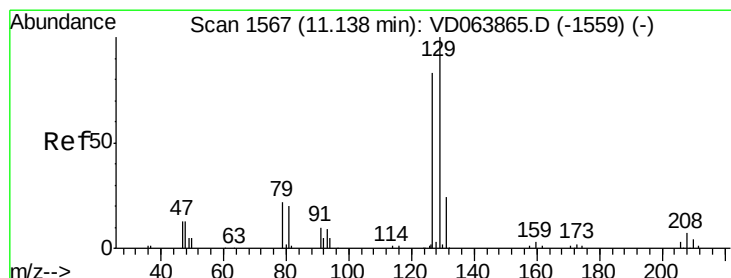
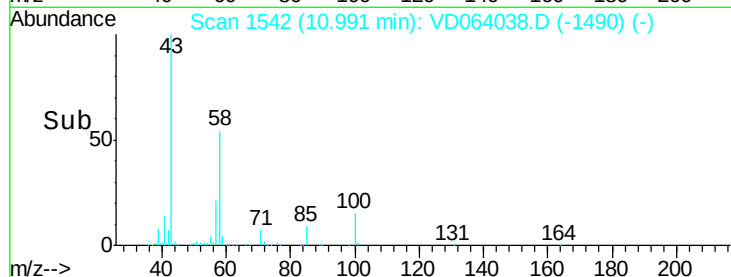
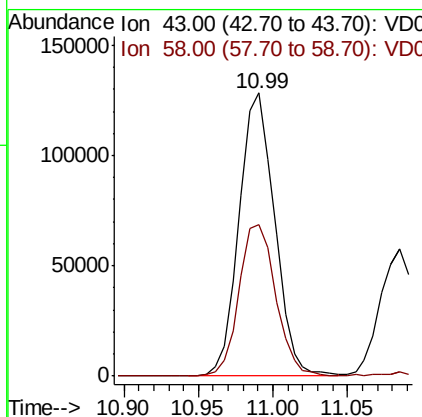
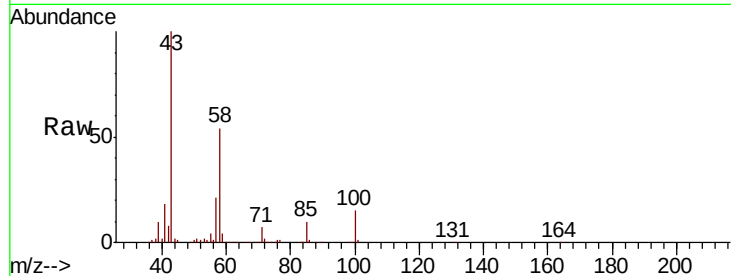
#59
2-Hexanone
Concen: 265.048 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 213165
Ion Ratio Lower Upper
43 100
58 55.4 27.7 83.0

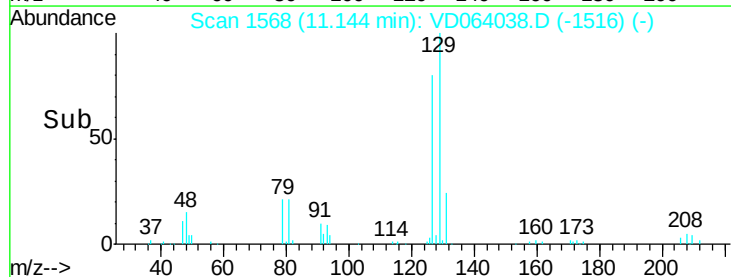
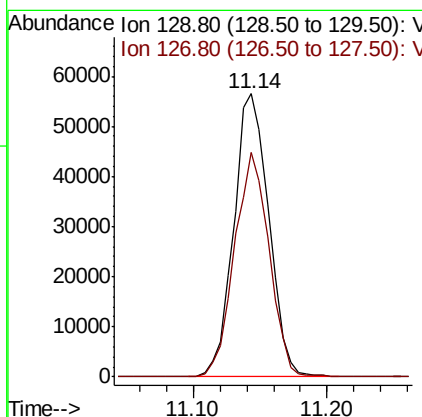
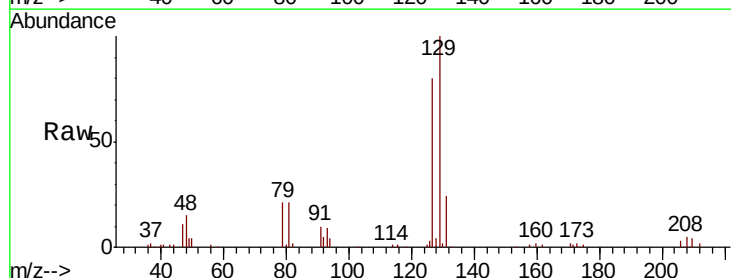
Manual Integrations
APPROVED

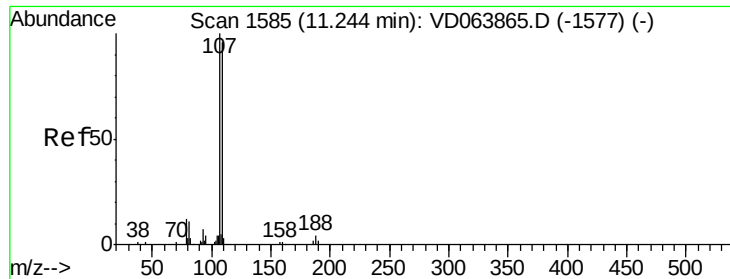
MMDadoda
10/25/2019 4:48:03 PM



#60
Dibromochloromethane
Concen: 54.679 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion: 129 Resp: 102639
Ion Ratio Lower Upper
129 100
127 78.7 39.9 119.6





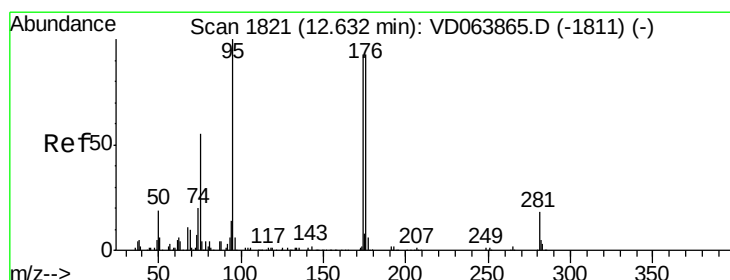
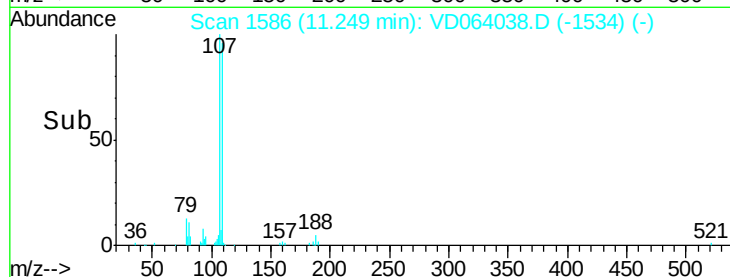
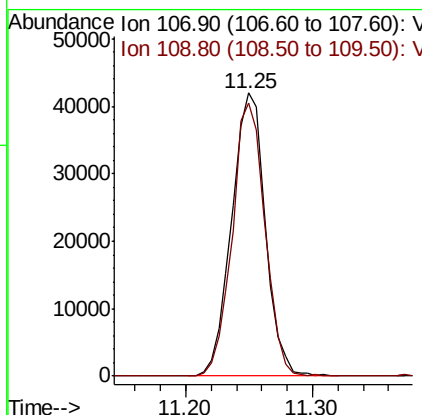
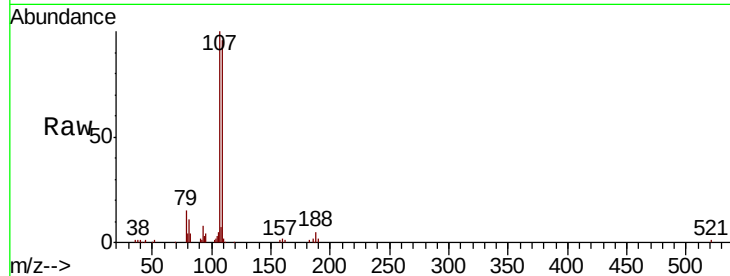
#61
 1,2-Dibromoethane
 Concen: 55.126 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:107 Resp: 77054
 Ion Ratio Lower Upper
 107 100
 109 93.2 75.2 112.8

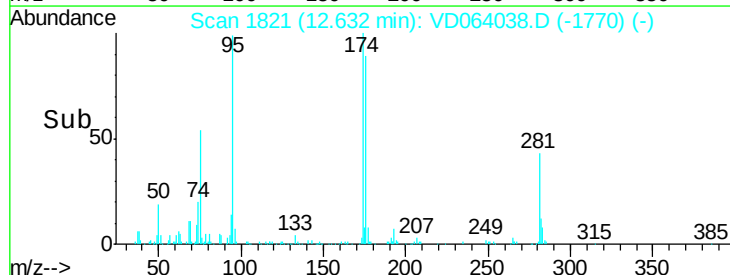
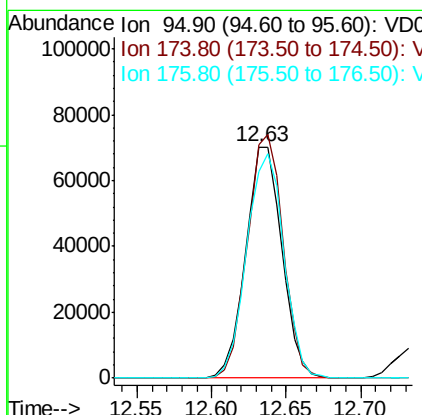
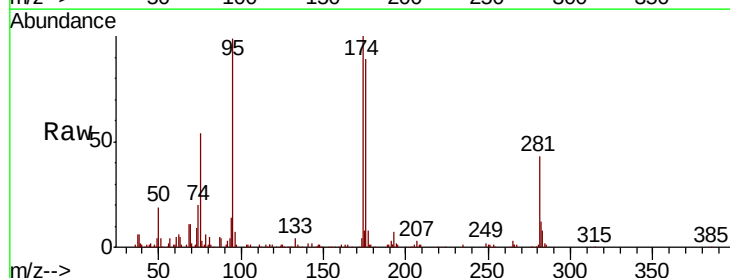
Manual Integrations
 APPROVED

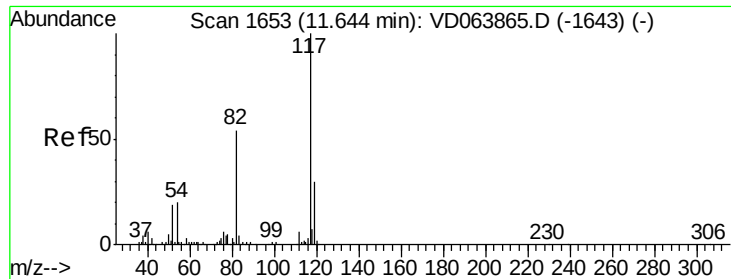
MMDadoda
 10/25/2019 4:48:03 PM



#62
 4-Bromofluorobenzene
 Concen: 48.946 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion: 95 Resp: 117954
 Ion Ratio Lower Upper
 95 100
 174 103.5 0.0 186.4
 176 99.5 0.0 184.2





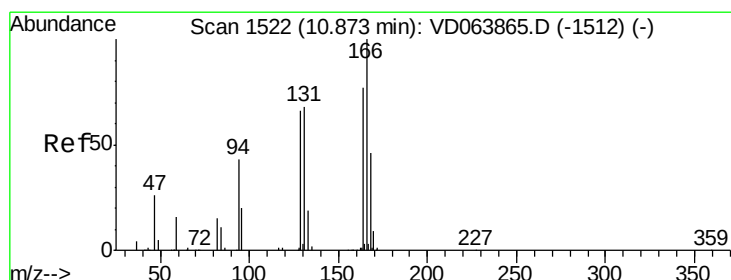
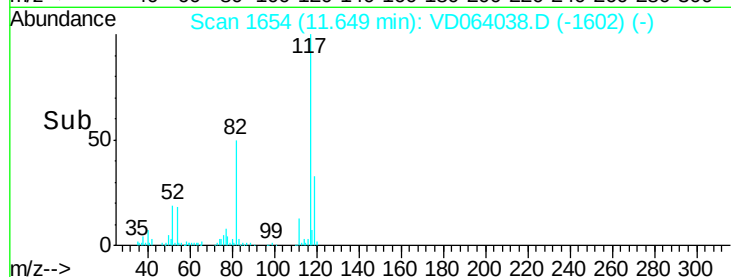
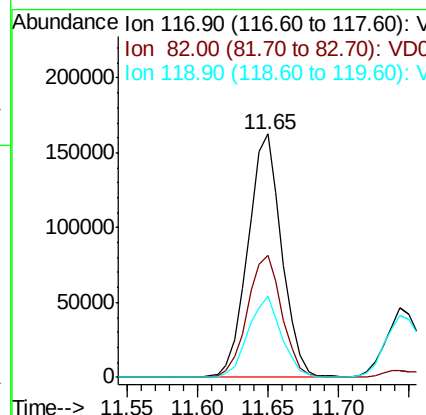
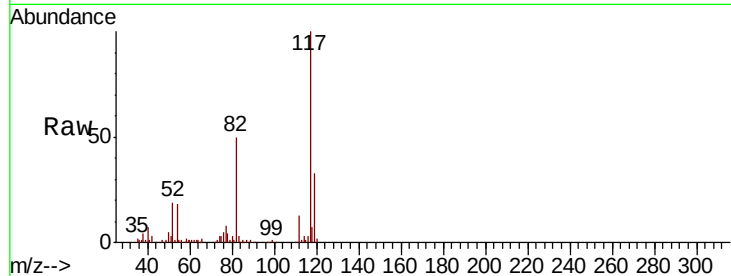
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.2	42.8	64.2
119	33.4	24.4	36.6

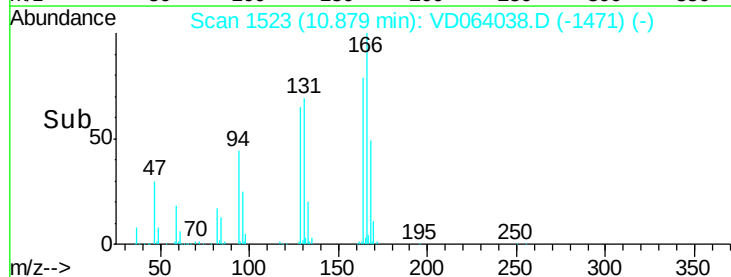
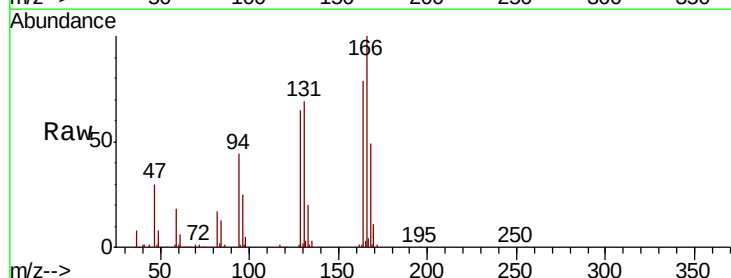
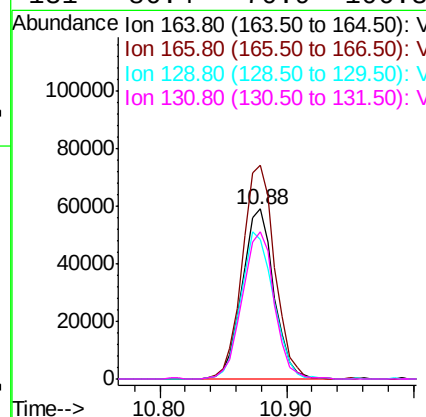
Manual Integrations
APPROVED

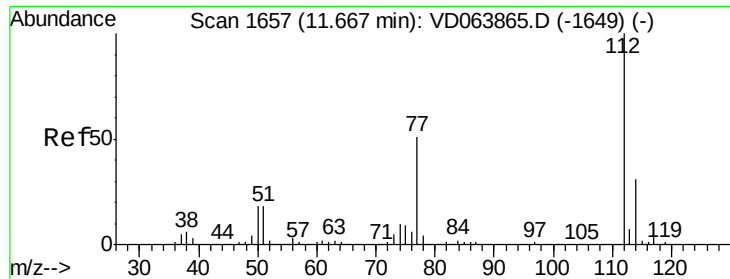
MMDadoda
10/25/2019 4:48:03 PM



#64
Tetrachloroethene
Concen: 54.996 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.8	155.6
129	82.5	68.9	103.3
131	86.4	70.9	106.3





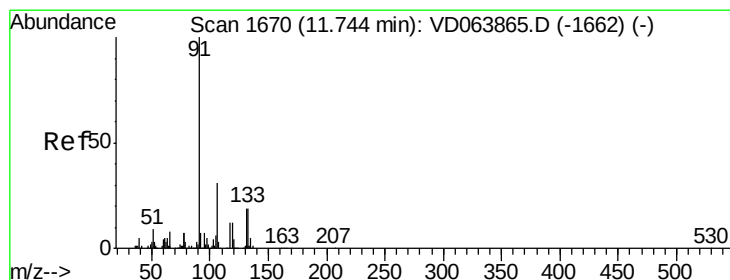
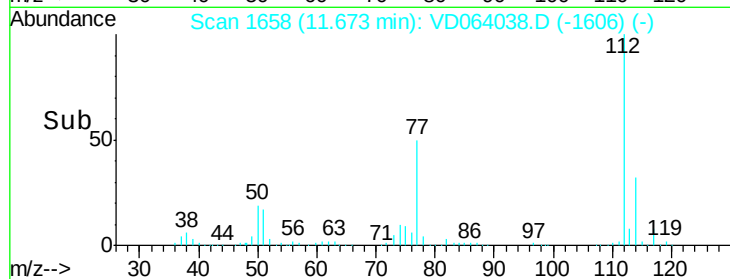
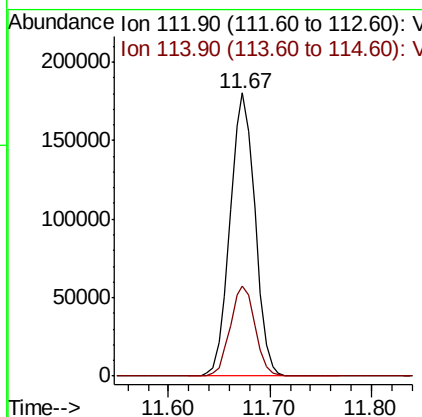
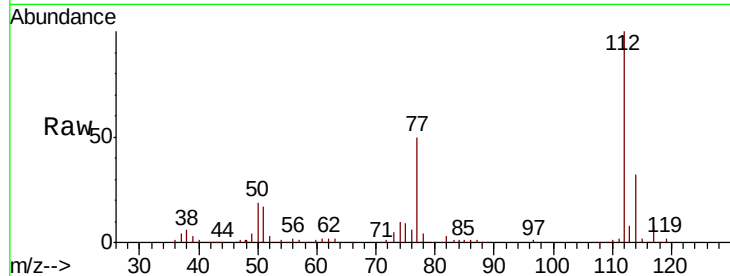
#65
Chlorobenzene
Concen: 56.309 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 307917
Ion Ratio Lower Upper
112 100
114 31.8 25.1 37.7

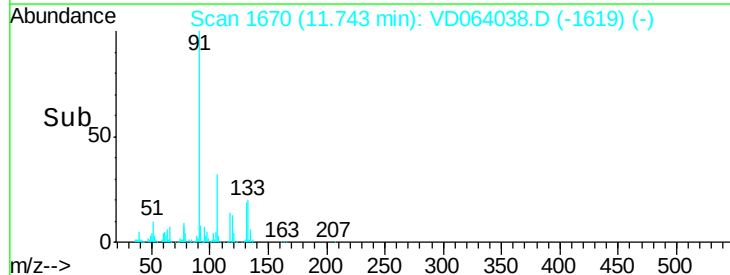
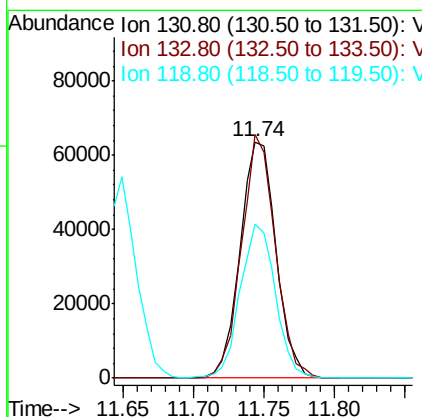
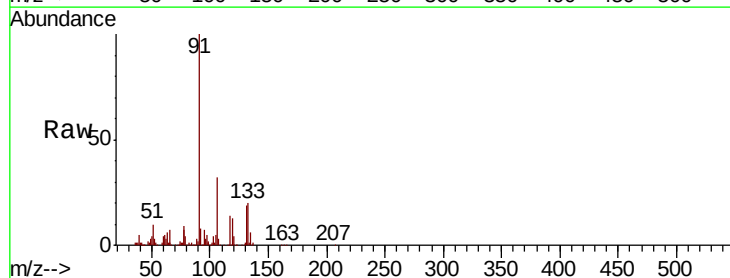
Manual Integrations
APPROVED

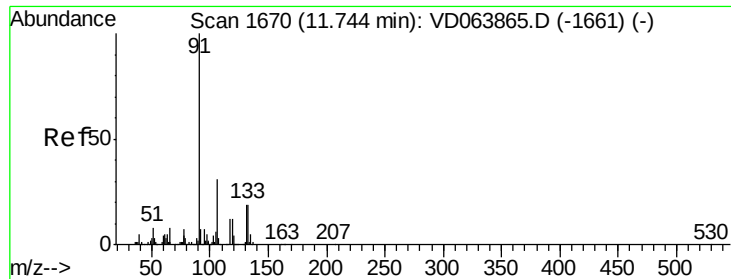
MMDadoda
10/25/2019 4:48:03 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 56.101 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion:131 Resp: 113041
Ion Ratio Lower Upper
131 100
133 97.5 48.9 146.7
119 64.4 32.6 97.8





#67

Ethyl Benzene

Concen: 57.159 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 563612

Ion Ratio Lower Upper

91 100

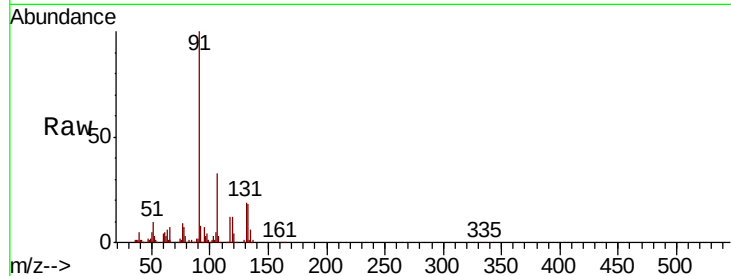
106 32.6 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

10/25/2019 4:48:03 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): V

400000

300000

200000

100000

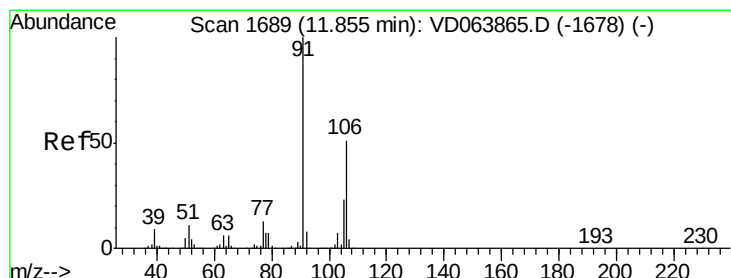
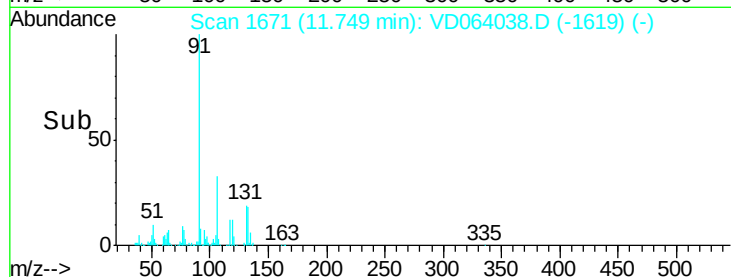
0

11.75

11.70

11.80

Time-->



#68

m/p-Xylenes

Concen: 117.552 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064038.D

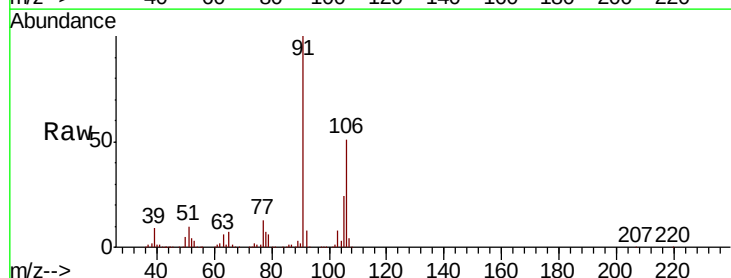
Acq: 24 Oct 2019 10:52

Tgt Ion: 106 Resp: 447394

Ion Ratio Lower Upper

106 100

91 186.8 154.8 232.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC

500000

400000

300000

200000

100000

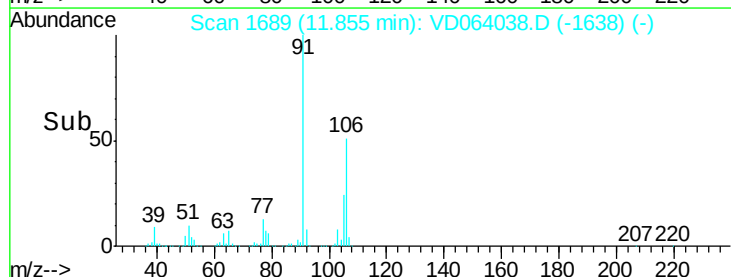
0

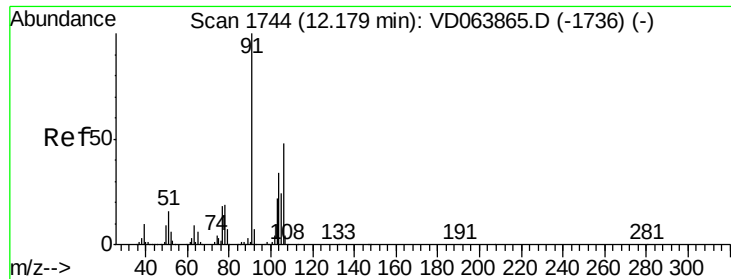
11.86

11.80

11.90

Time-->





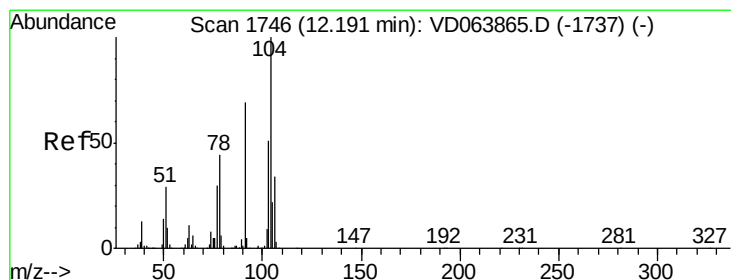
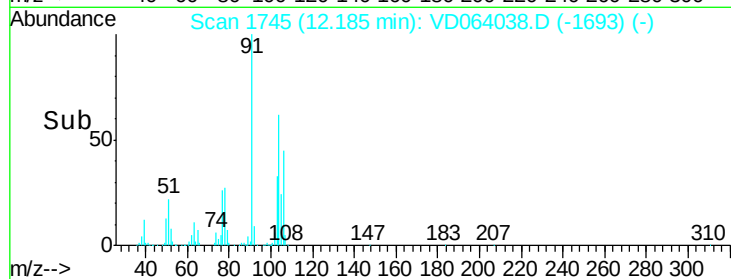
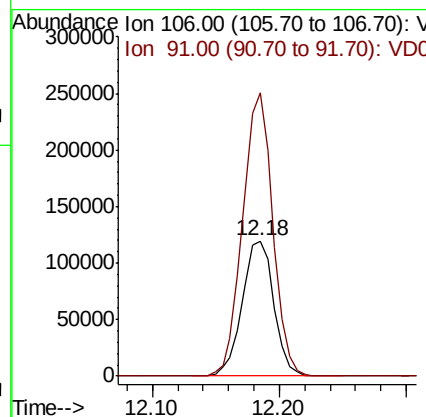
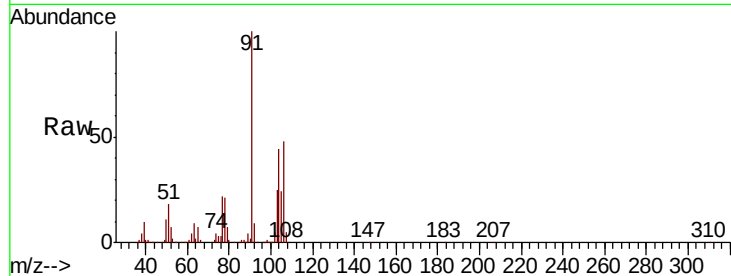
#69
o-Xylene
Concen: 56.475 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	200.7	103.9	311.7

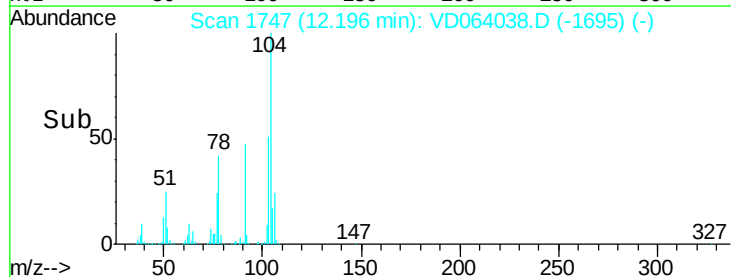
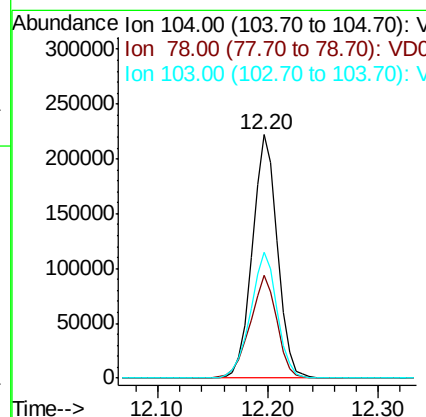
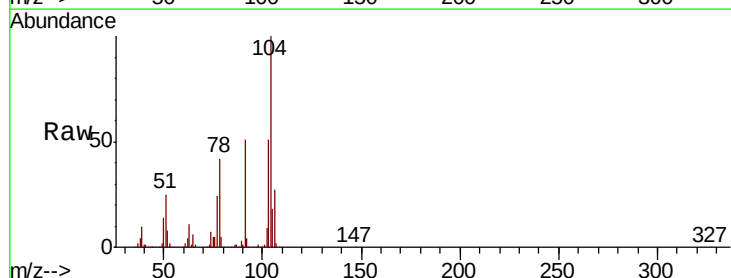
Manual Integrations
APPROVED

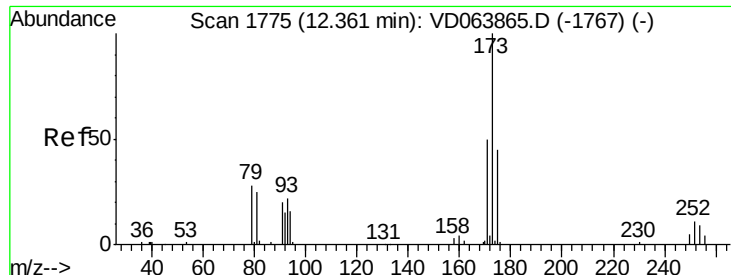
MMDadoda
10/25/2019 4:48:03 PM



#70
Styrene
Concen: 57.342 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.1	37.0	55.4
103	54.8	44.2	66.4





#71

Bromoform

Concen: 59.693 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

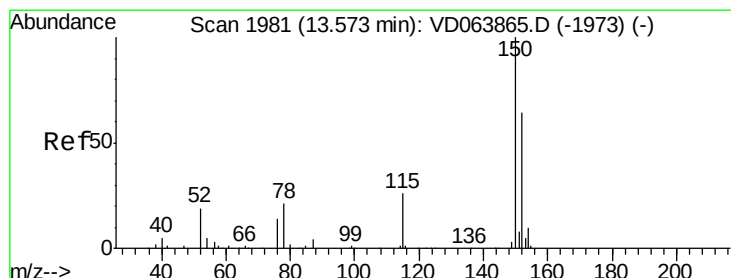
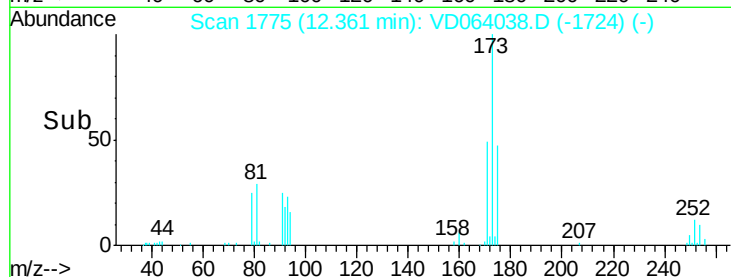
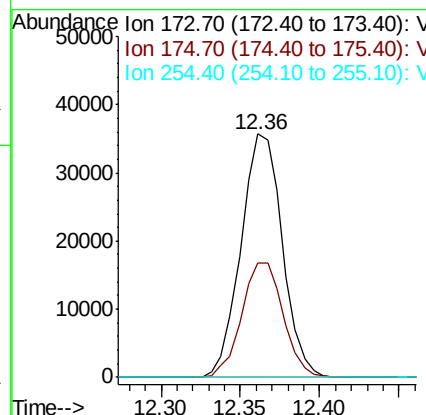
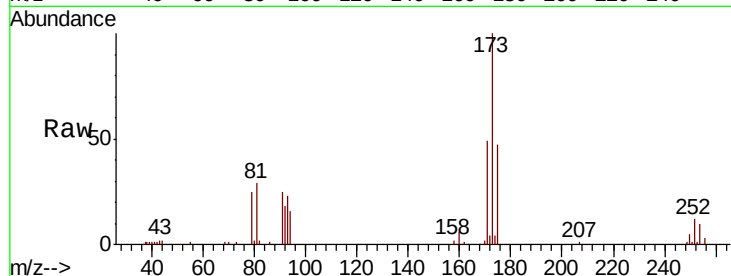
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	64550
Ion Ratio	Lower	Upper	
173	100		
175	47.3	24.6	74.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

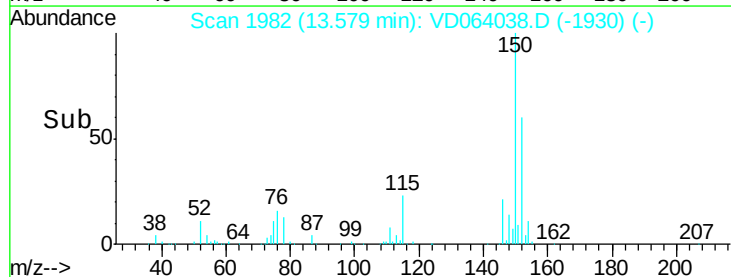
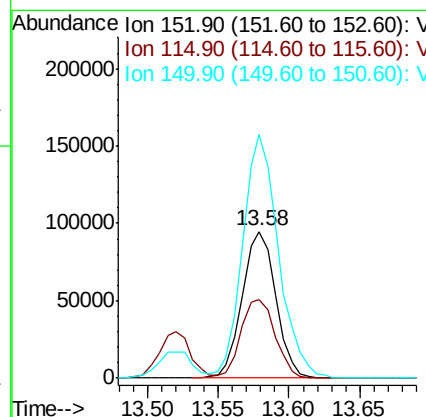
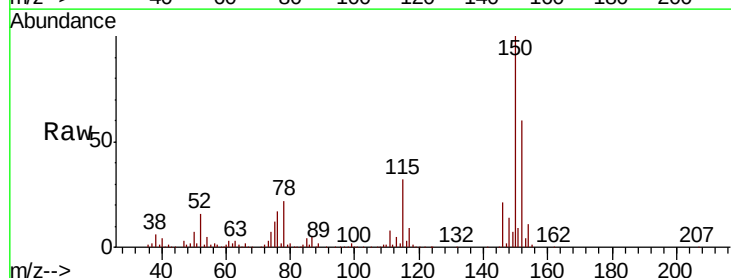
RT: 13.58 min Scan# 1982

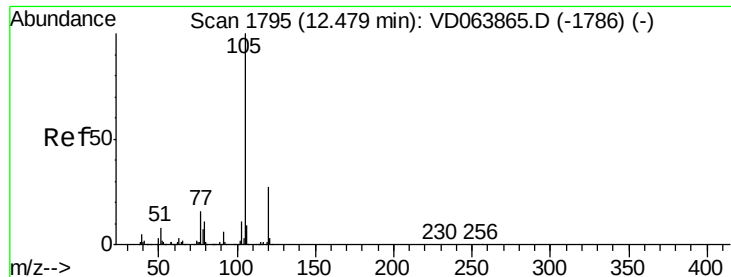
Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	152	Resp:	157832
Ion Ratio	Lower	Upper	
152	100		
115	54.5	25.9	77.7
150	176.2	0.0	344.2





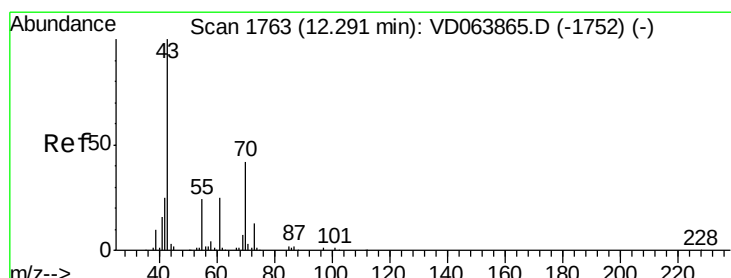
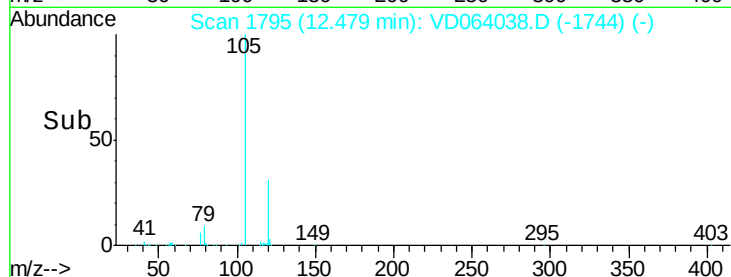
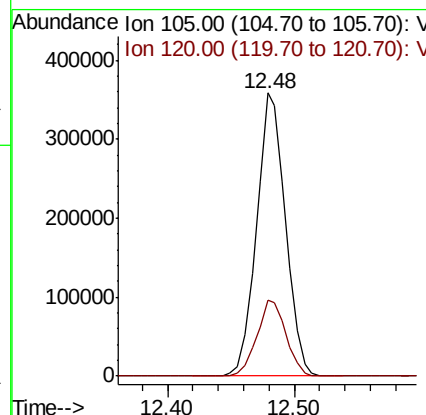
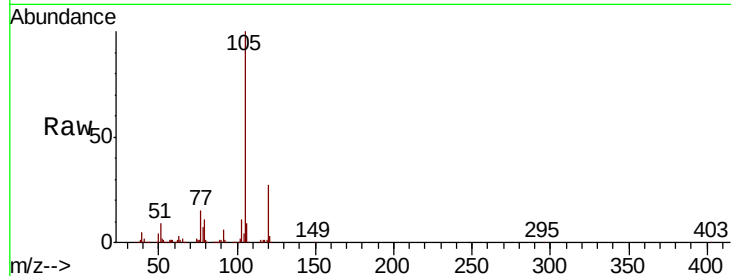
#73
Isopropylbenzene
Concen: 53.580 ug/l
RT: 12.48 min Scan# 1795
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.3	39.8

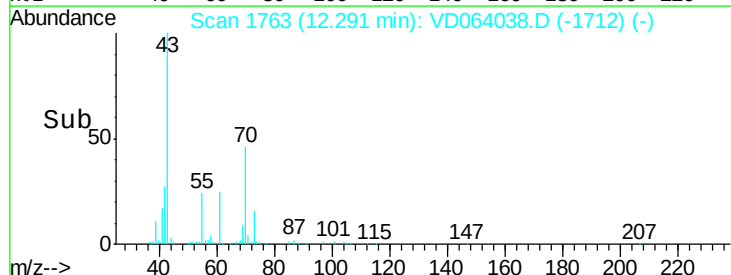
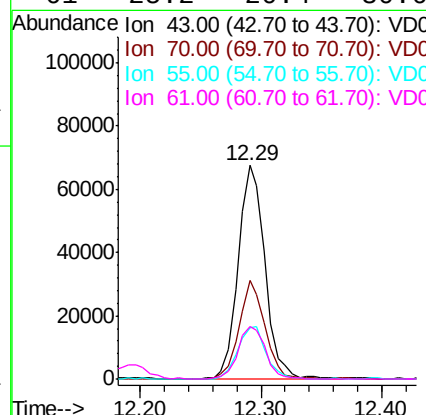
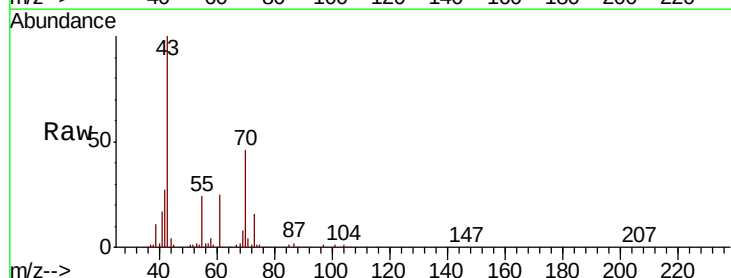
Manual Integrations
APPROVED

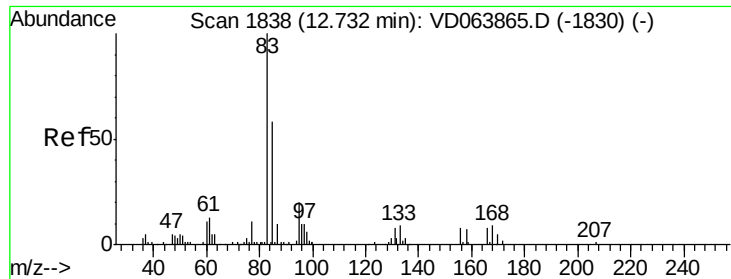
MMDadoda
10/25/2019 4:48:03 PM



#74
N-ethyl acetate
Concen: 45.940 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.3	35.8	53.6
55	25.5	19.4	29.0
61	25.2	20.4	30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 49.542 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

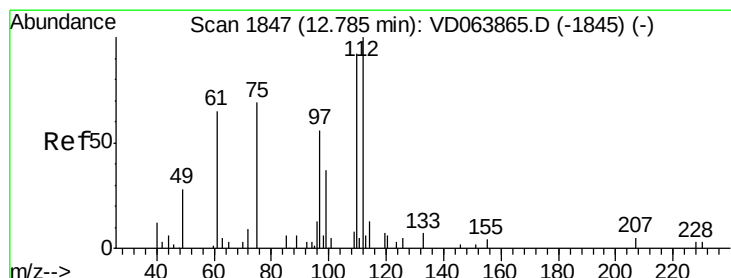
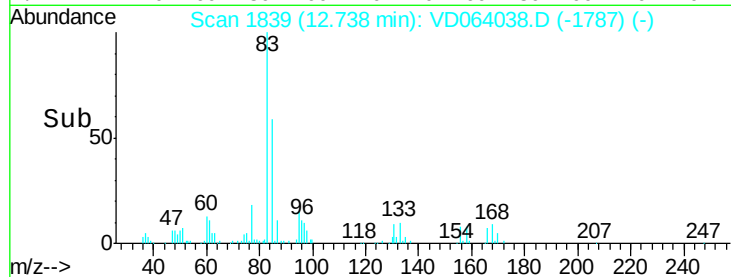
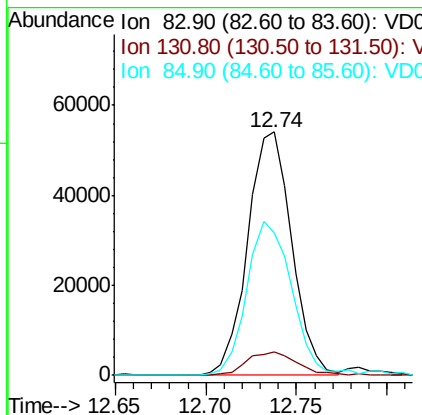
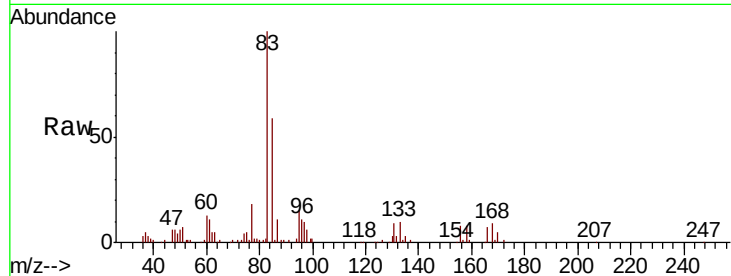
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	91470
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.6	16.8
85	66.1	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#76

1,2,3-Trichloropropane

Concen: 58.314 ug/l m

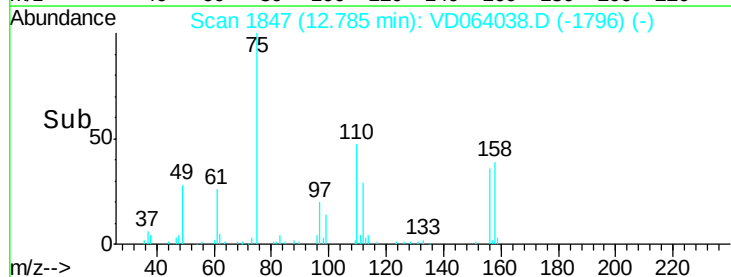
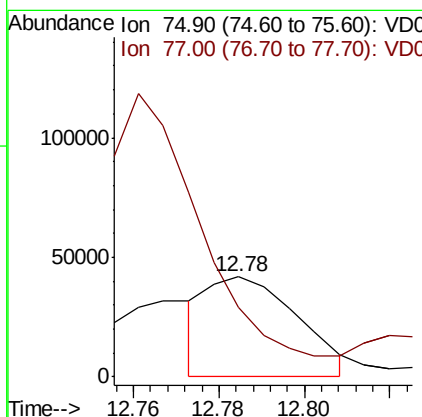
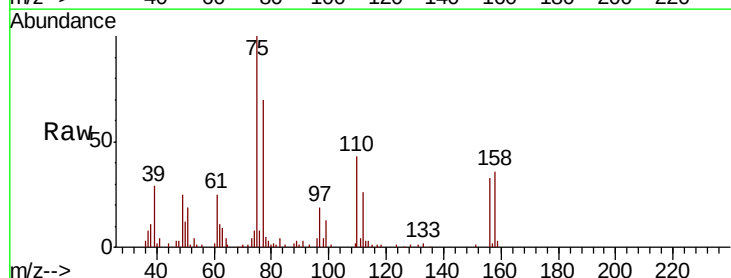
RT: 12.78 min Scan# 1847

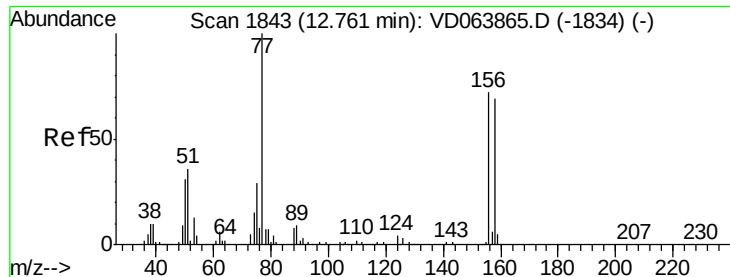
Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	75	Resp:	61645
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 52.085 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 137684

Ion Ratio Lower Upper

156 100

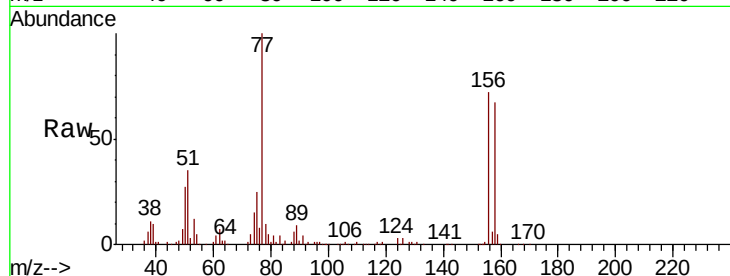
77 156.4 80.3 241.0

158 97.0 47.4 142.2

Manual Integrations
APPROVED

MMDadoda

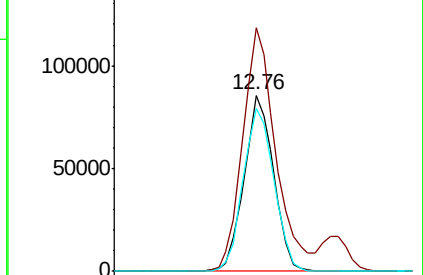
10/25/2019 4:48:03 PM



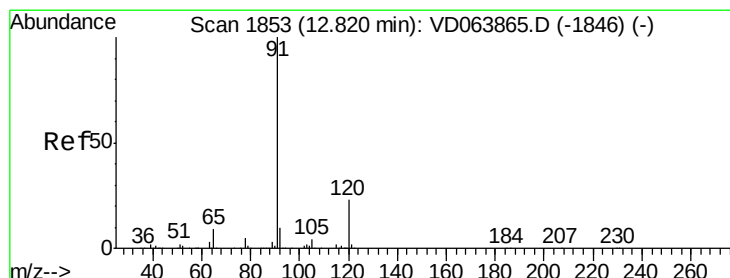
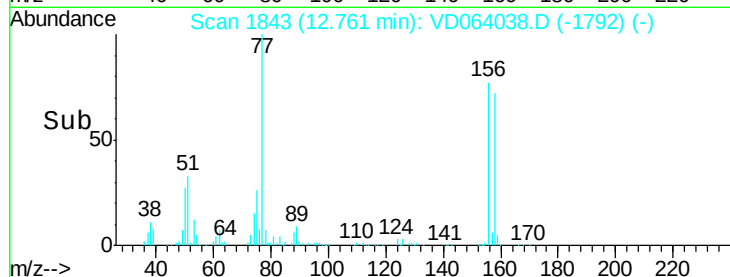
Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



Time-->



#78

n-propylbenzene

Concen: 54.502 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD064038.D

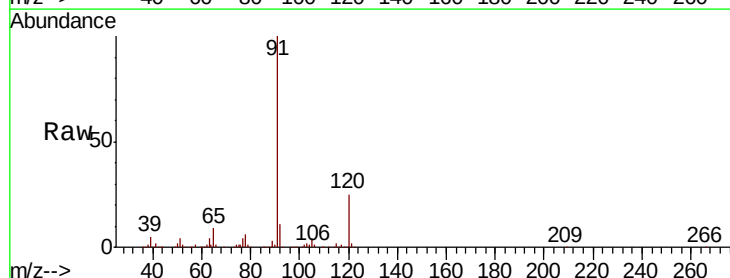
Acq: 24 Oct 2019 10:52

Tgt Ion: 91 Resp: 678773

Ion Ratio Lower Upper

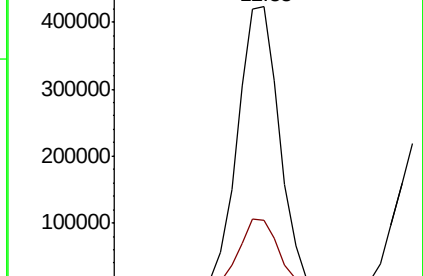
91 100

120 24.6 12.0 36.0

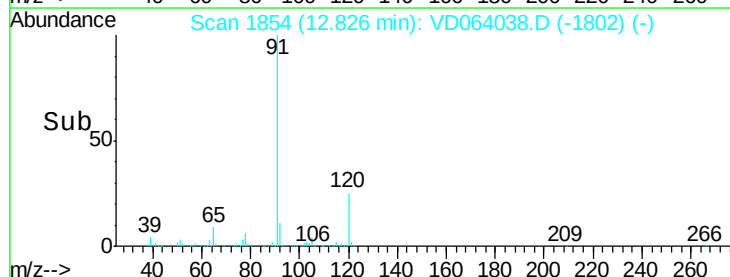


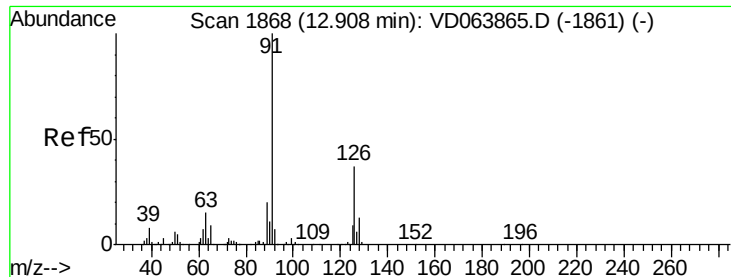
Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V



Time-->





#79

2-Chlorotoluene

Concen: 51.796 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 355694

Ion Ratio Lower Upper

91 100

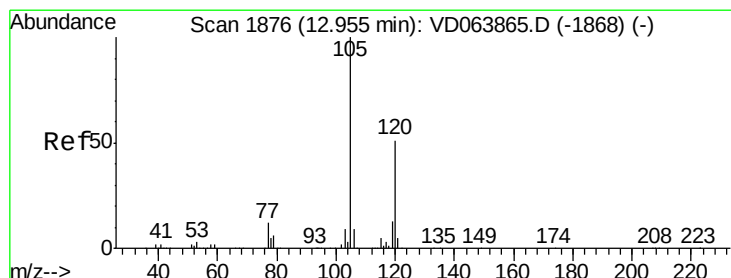
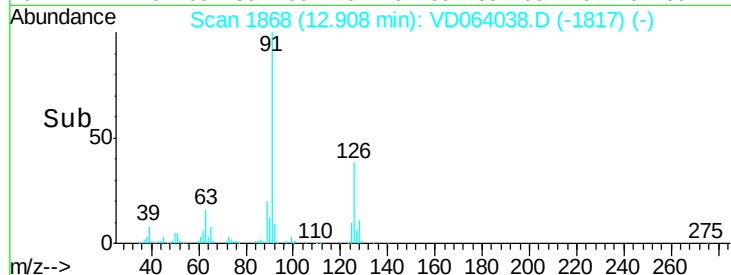
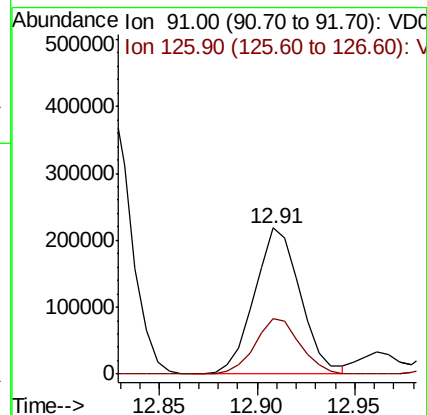
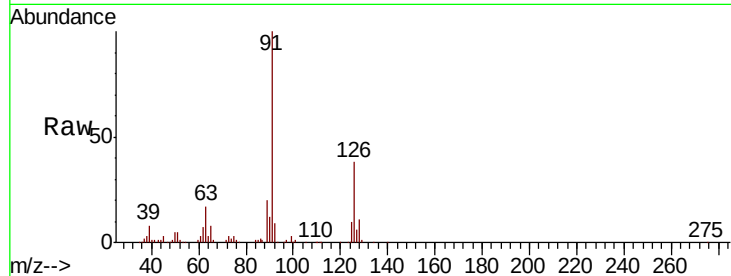
126 37.5 18.4 55.2

Manual Integrations

APPROVED

MMDadoda

10/25/2019 4:48:03 PM



#80

1,3,5-Trimethylbenzene

Concen: 54.359 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.01 min

Lab File: VD064038.D

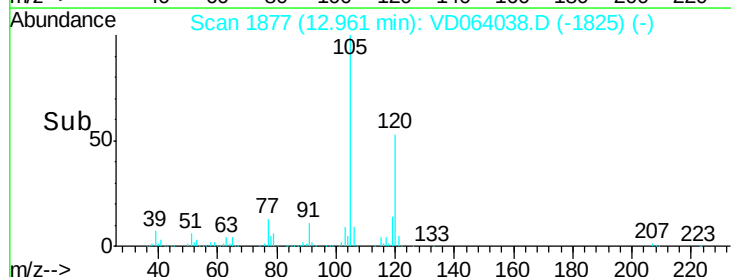
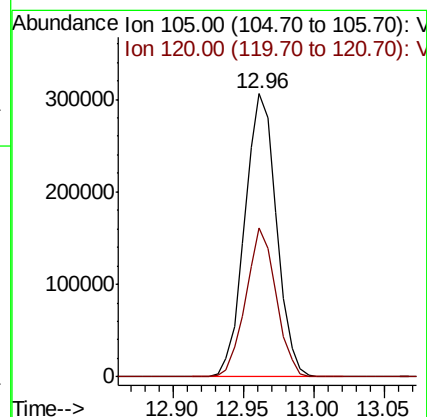
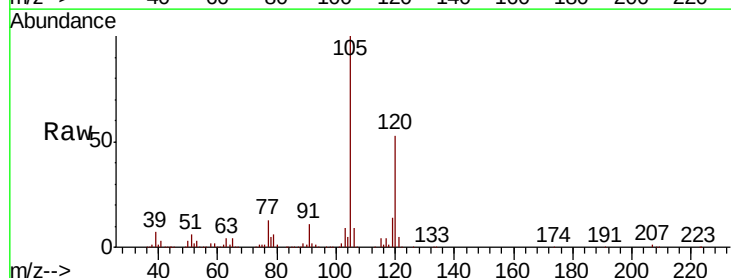
Acq: 24 Oct 2019 10:52

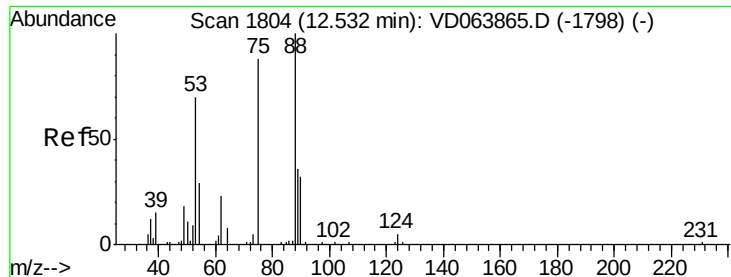
Tgt Ion: 105 Resp: 481178

Ion Ratio Lower Upper

105 100

120 50.2 25.9 77.8





#81

trans-1,4-Dichloro-2-butene

Concen: 45.889 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 27413

Ion Ratio Lower Upper

75 100

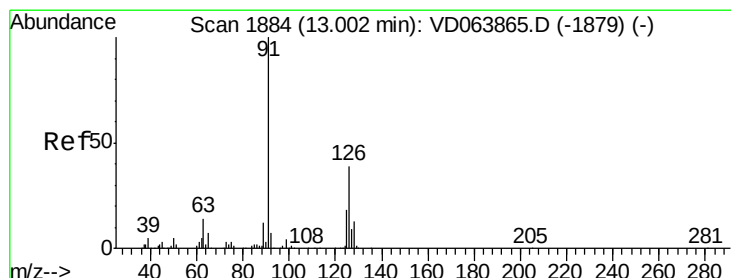
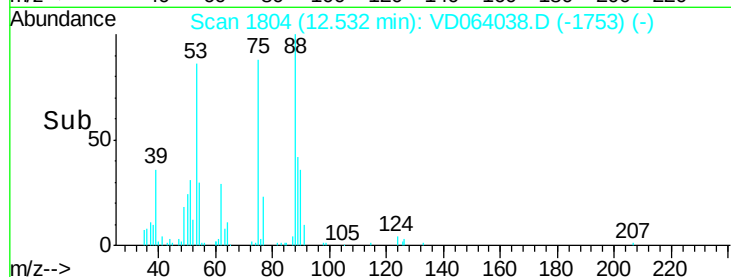
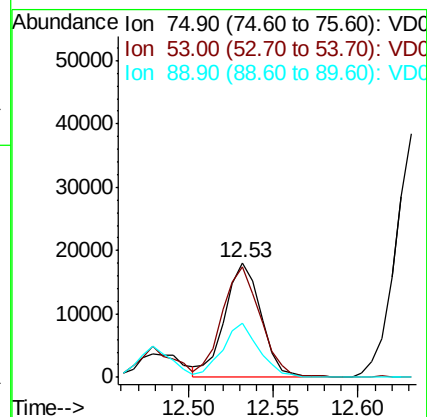
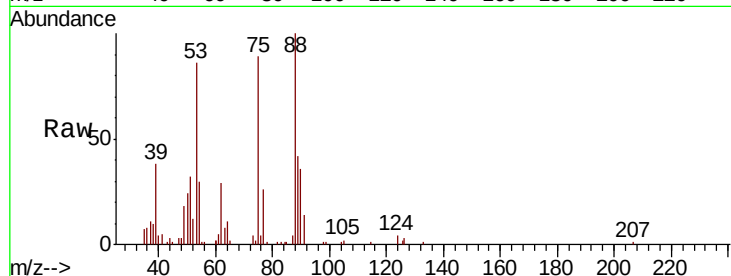
53 101.3 75.0 112.6

89 46.9 38.2 57.4

Manual Integrations
APPROVED

MMDadoda

10/25/2019 4:48:03 PM



#82

4-Chlorotoluene

Concen: 51.555 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.01 min

Lab File: VD064038.D

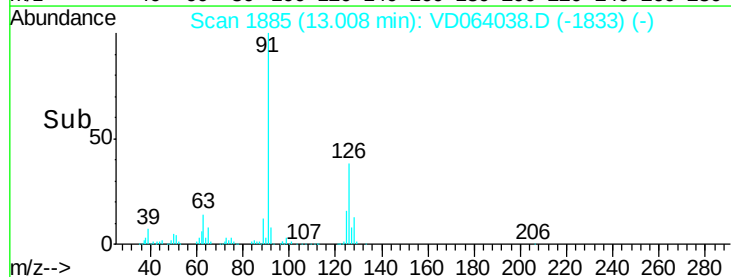
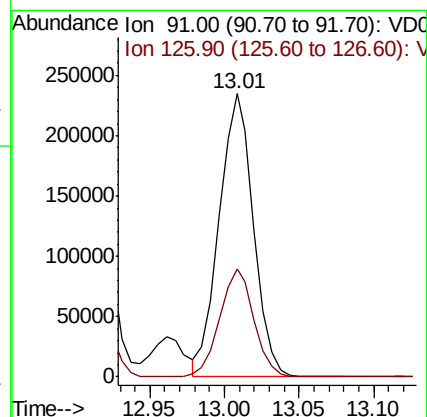
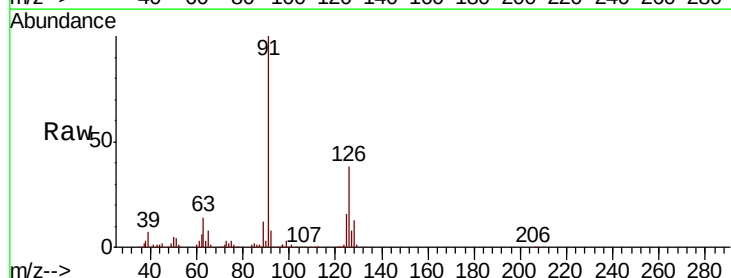
Acq: 24 Oct 2019 10:52

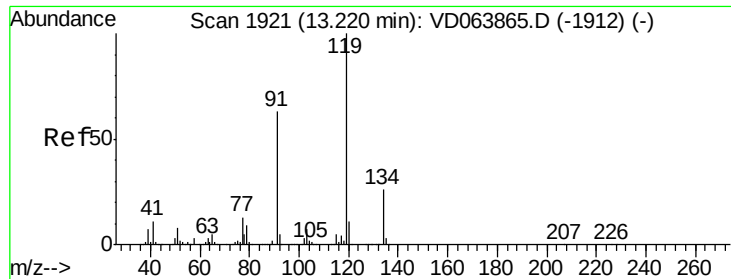
Tgt Ion: 91 Resp: 375569

Ion Ratio Lower Upper

91 100

126 38.2 18.6 55.8





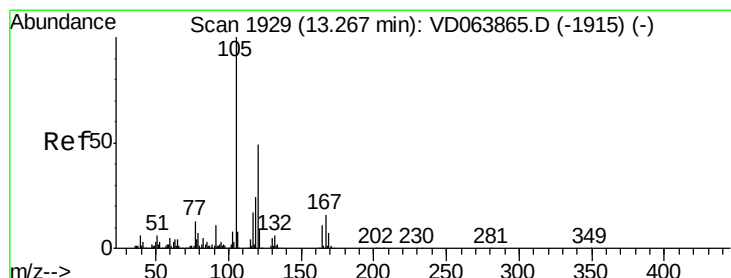
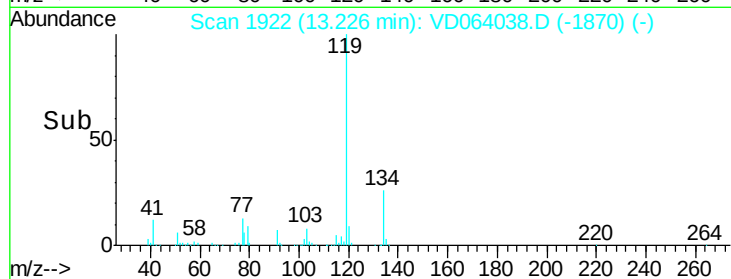
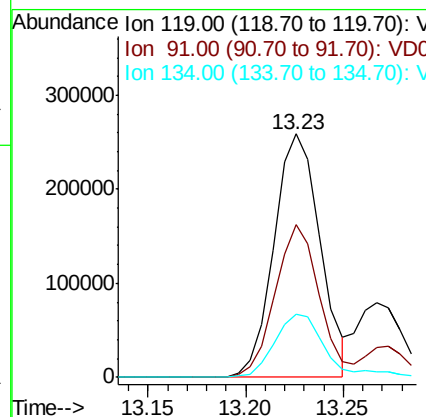
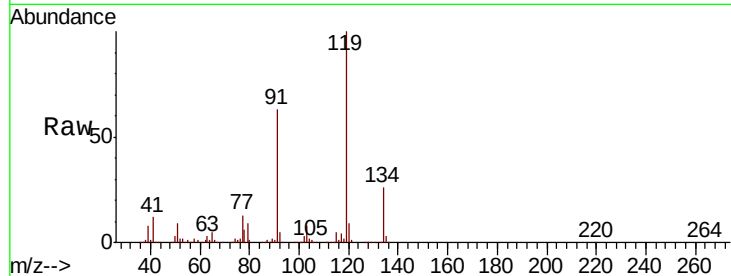
#83
 tert-Butylbenzene
 Concen: 53.794 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.5	30.0	90.0
134	28.7	13.0	38.9

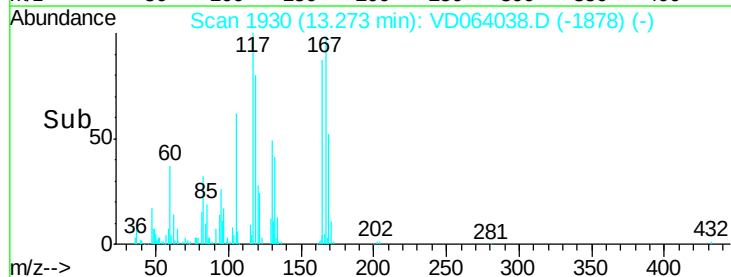
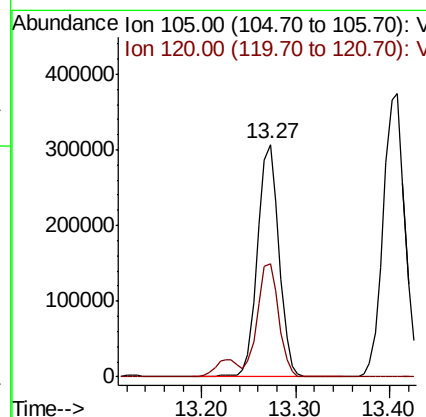
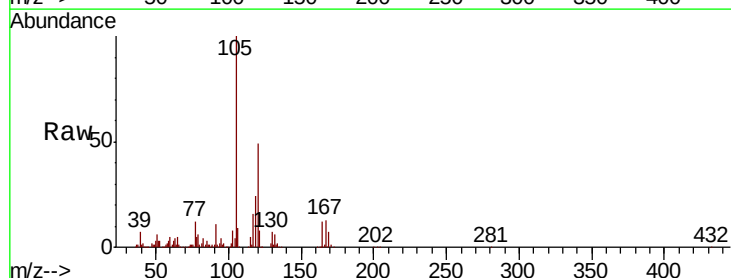
Manual Integrations
 APPROVED

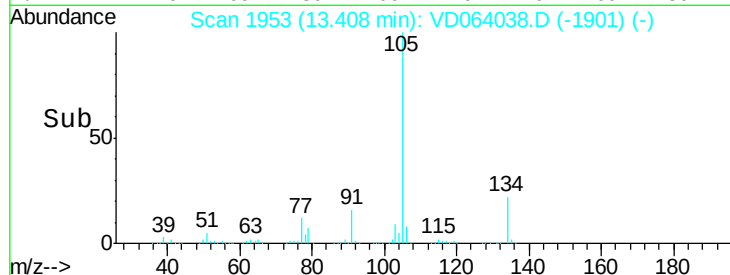
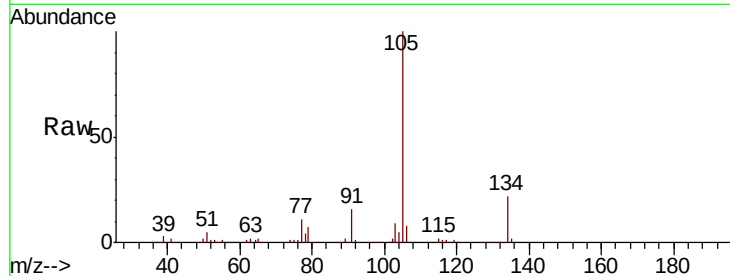
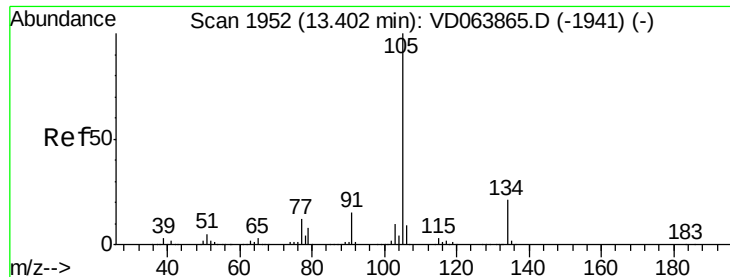
MMDadoda
 10/25/2019 4:48:03 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 53.321 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.5





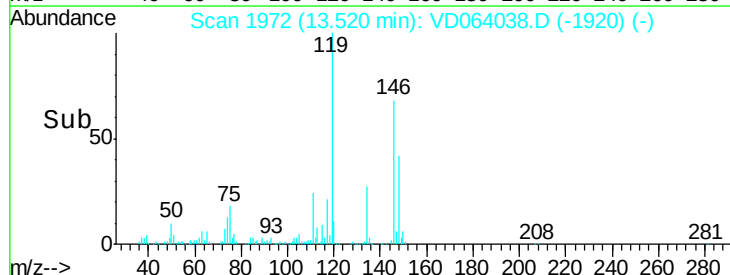
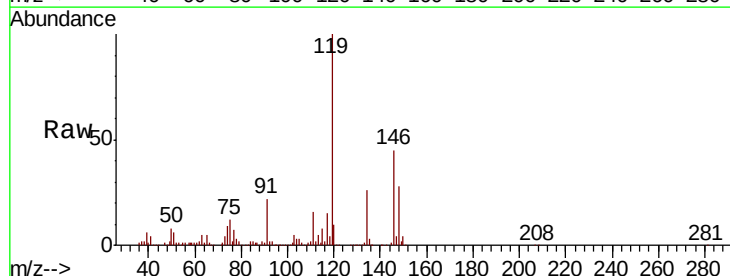
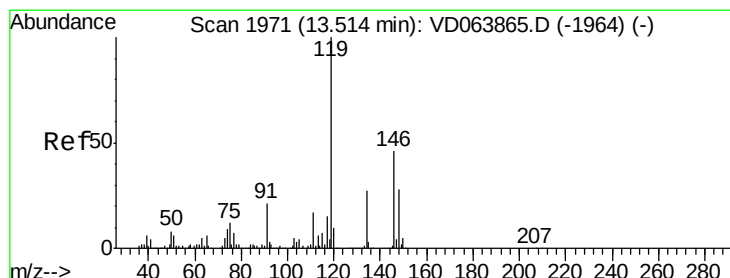
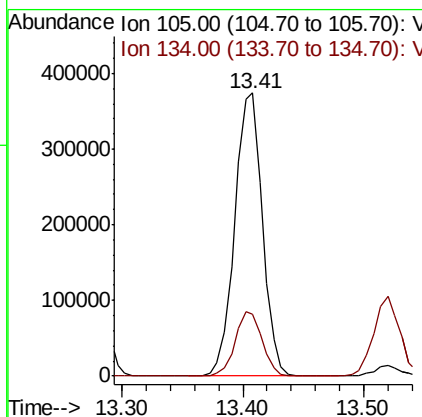
#85
 sec-Butylbenzene
 Concen: 56.130 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tot Ion:105 Resp: 597163
 Ion Ratio Lower Upper
 105 100
 134 22.3 10.6 31.8

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

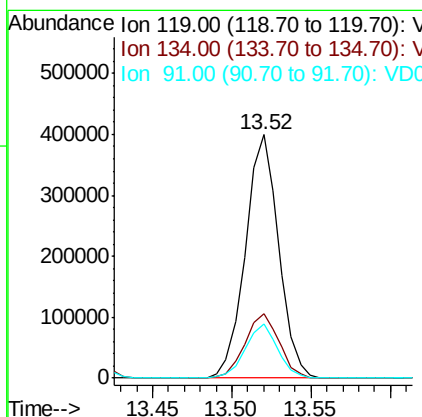
Manual Integrations
 APPROVED

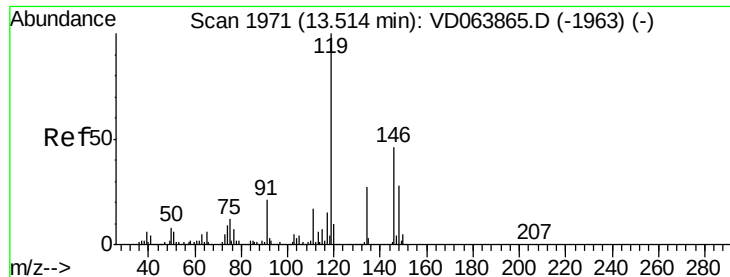
MMDadoda
 10/25/2019 4:48:03 PM



#86
 p-Isopropyltoluene
 Concen: 57.754 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion:119 Resp: 581424
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.9 41.6
 91 21.8 11.2 33.5





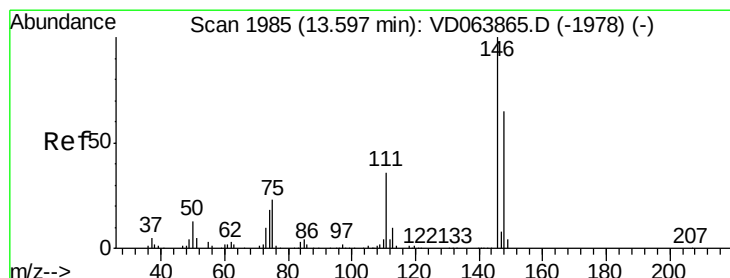
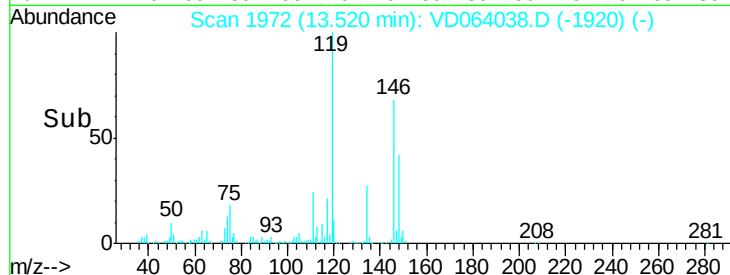
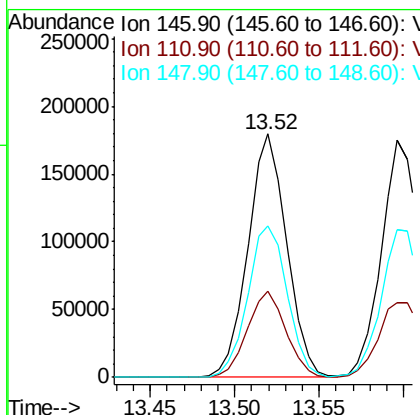
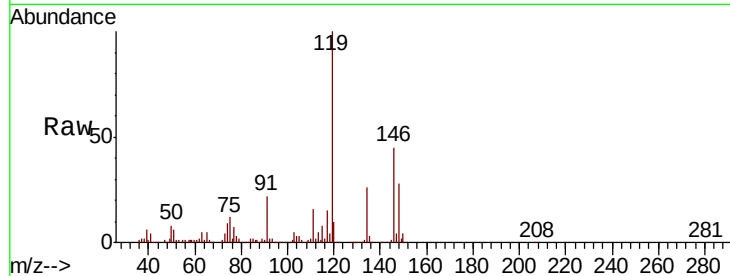
#87
 1,3-Dichlorobenzene
 Concen: 54.738 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.3	18.3	54.9
148	63.7	31.8	95.4

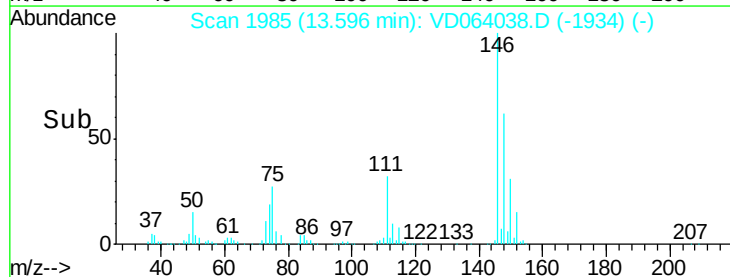
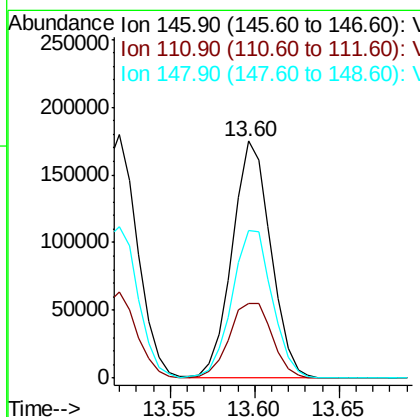
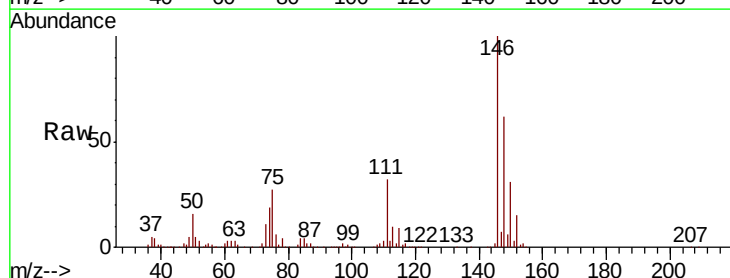
Manual Integrations
 APPROVED

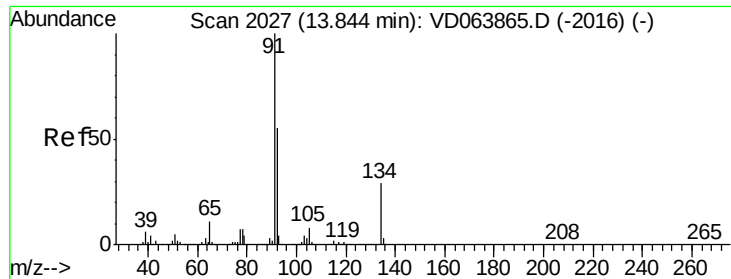
MMDadoda
 10/25/2019 4:48:03 PM



#88
 1,4-Dichlorobenzene
 Concen: 53.960 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.1	18.6	56.0
148	64.9	32.6	98.0





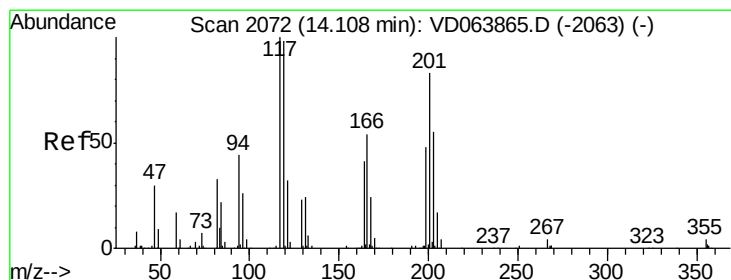
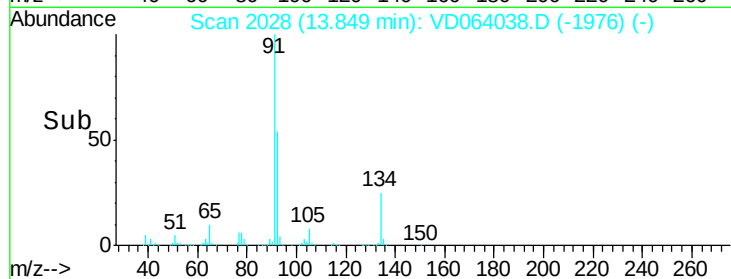
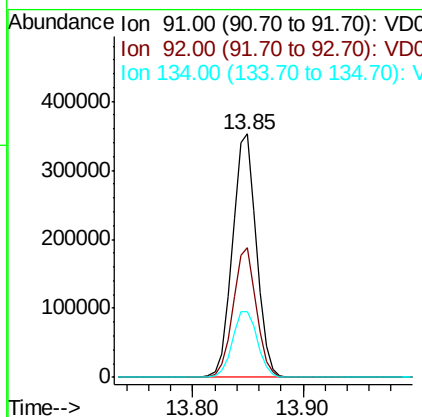
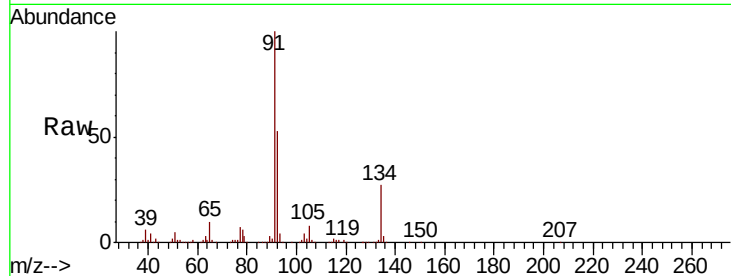
#89
n-Butylbenzene
Concen: 57.012 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.8	80.3
134	28.4	14.4	43.0

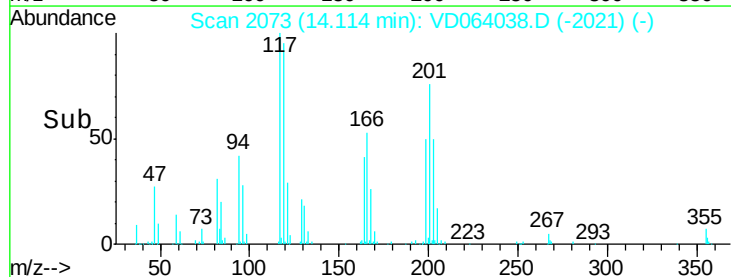
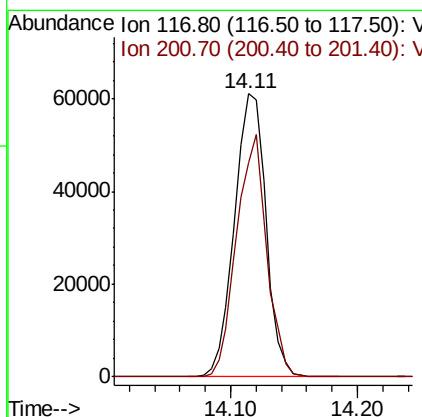
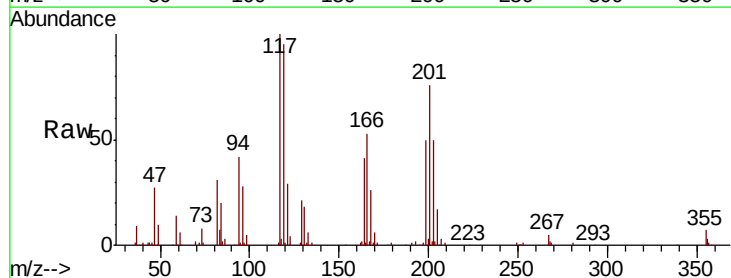
Manual Integrations
APPROVED

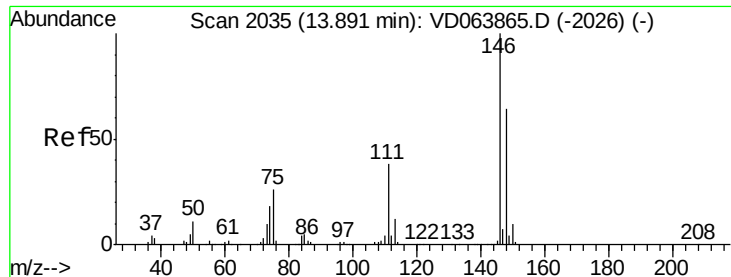
MMDadoda
10/25/2019 4:48:03 PM



#90
Hexachloroethane
Concen: 58.086 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD064038.D
Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.6	40.6	121.7





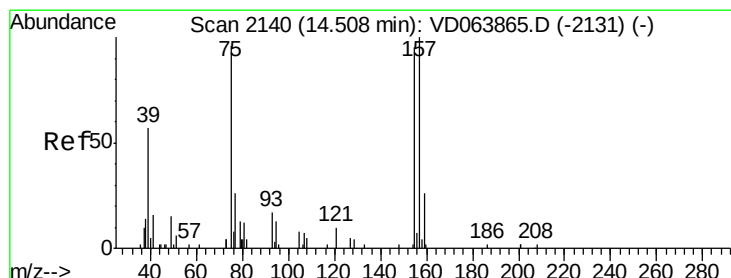
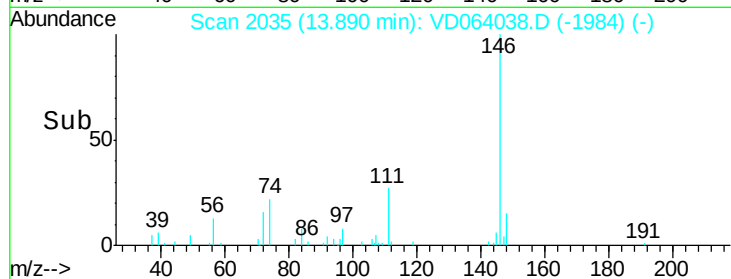
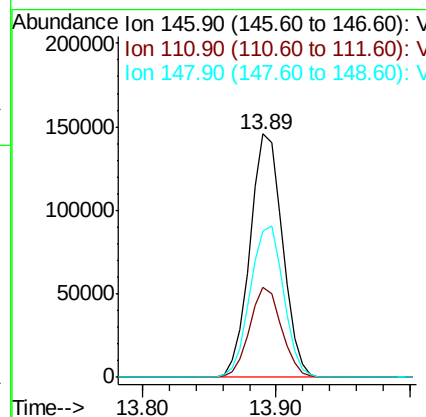
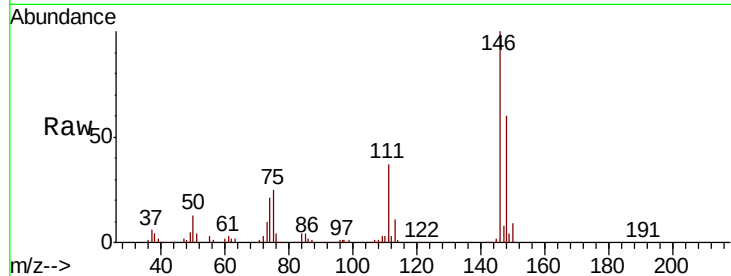
#91
 1,2-Dichlorobenzene
 Concen: 54.367 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.6	55.6
148	63.8	31.6	95.0

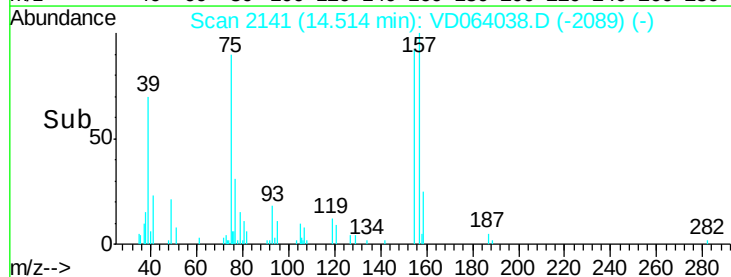
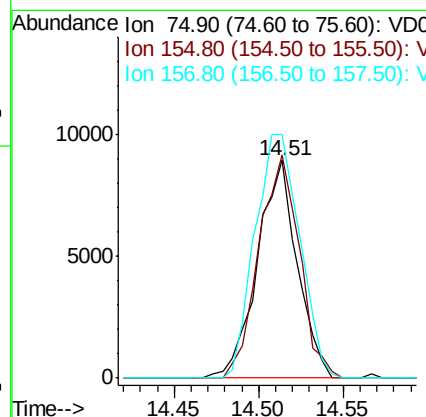
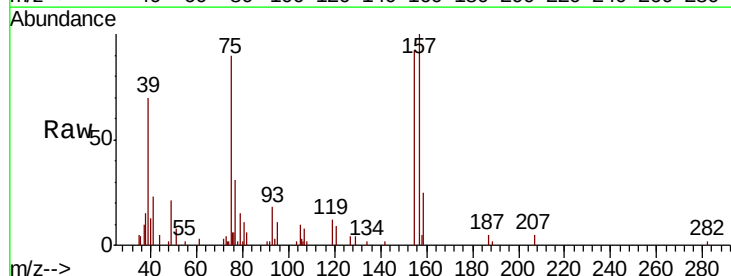
Manual Integrations
 APPROVED

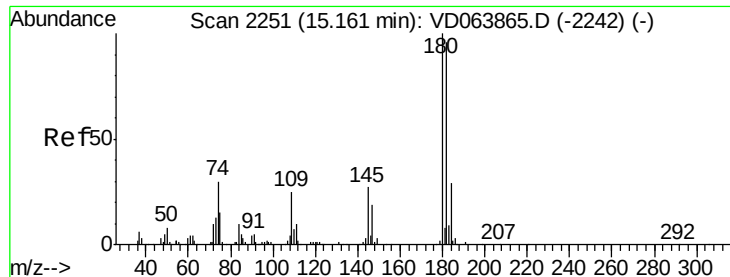
MMDadoda
 10/25/2019 4:48:03 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.135 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.8	43.9	131.6
157	125.5	56.0	167.9





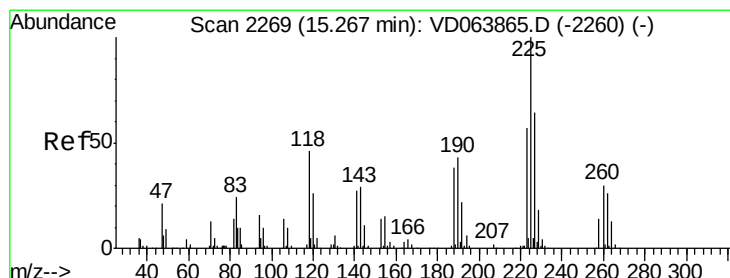
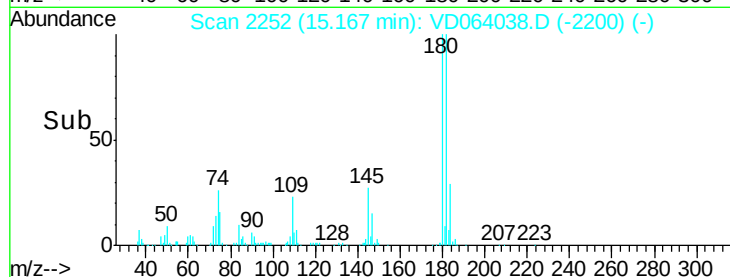
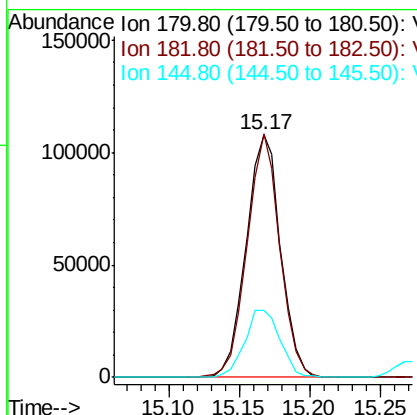
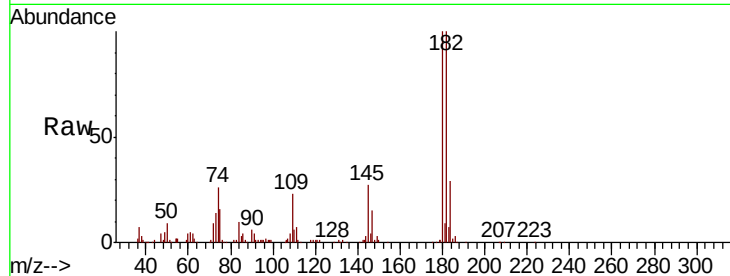
#93
 1,2,4-Trichlorobenzene
 Concen: 52.988 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	47.4	142.3	
145	28.5	13.9	41.7	

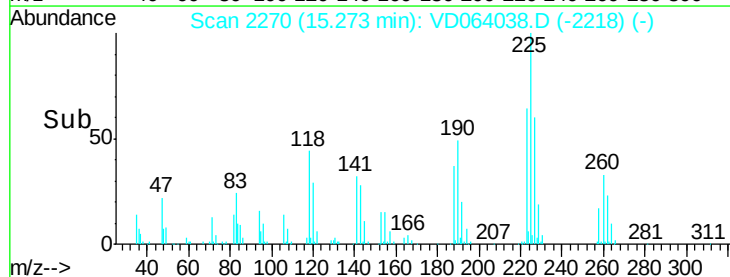
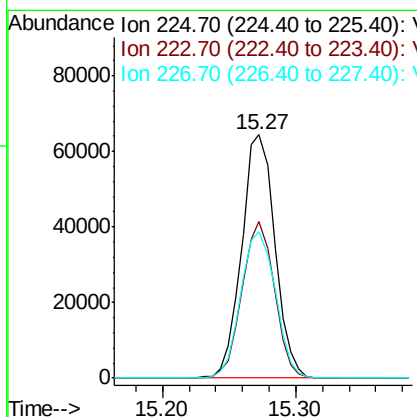
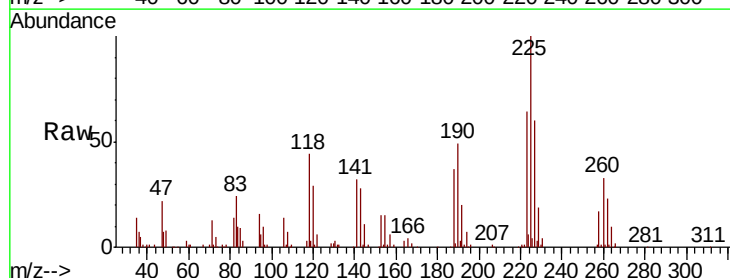
Manual Integrations
 APPROVED

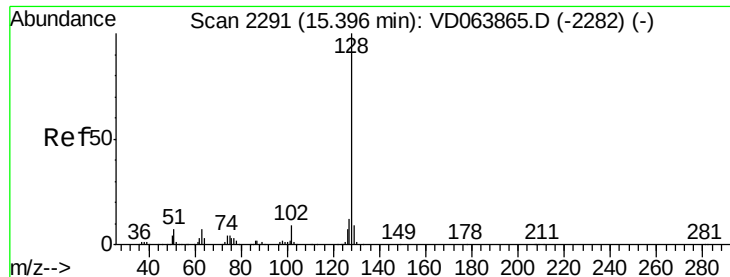
MMDadoda
 10/25/2019 4:48:03 PM



#94
 Hexachlorobutadiene
 Concen: 57.772 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.01 min
 Lab File: VD064038.D
 Acq: 24 Oct 2019 10:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.6	29.5	88.6	
227	62.8	30.8	92.4	





#95

Naphthalene

Concen: 54.073 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Instrument :

MSVOA_D

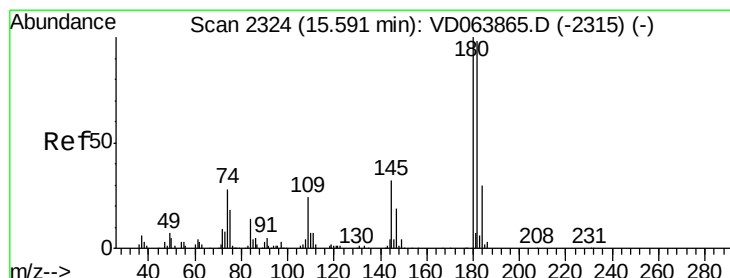
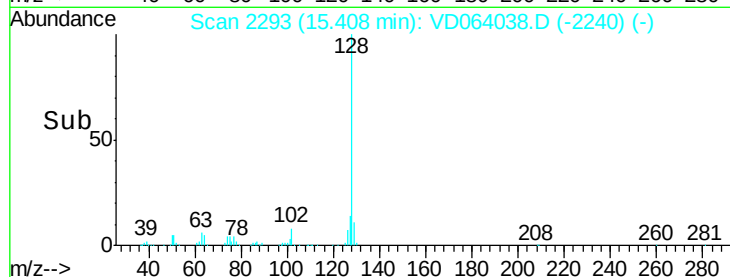
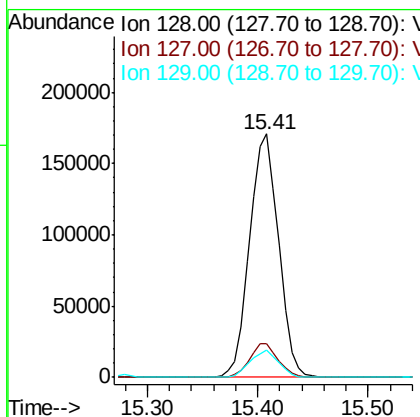
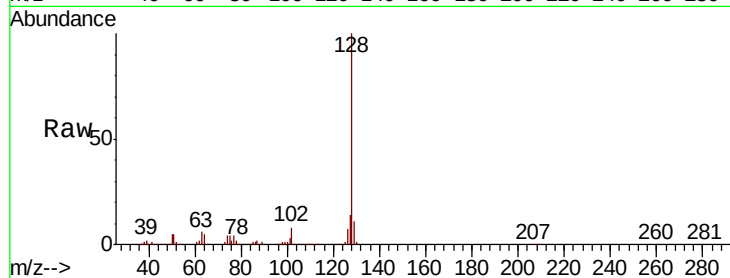
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	315660
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.6	16.0
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/25/2019 4:48:03 PM



#96

1,2,3-Trichlorobenzene

Concen: 52.325 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.01 min

Lab File: VD064038.D

Acq: 24 Oct 2019 10:52

Tgt Ion:	180	Resp:	156800
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.0	141.0
145	29.5	15.3	45.9

