

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063146.D
 Acq On : 19 Jul 2019 11:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/22/2019 10:42:53 AM

Quant Time: Jul 20 05:09:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	772952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1116025	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	868904	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	509348	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	463913	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
35) Dibromofluoromethane	6.92	113	521288	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
50) Toluene-d8	10.41	98	1118967	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
62) 4-Bromofluorobenzene	13.56	95	518876	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	404030	49.121	ug/l	99
3) Chloromethane	1.74	50	351380	50.238	ug/l	96
4) Vinyl Chloride	1.84	62	359333	43.558	ug/l	99
5) Bromomethane	2.15	94	174678	55.934	ug/l	99
6) Chloroethane	2.26	64	192336	50.191	ug/l	91
7) Trichlorofluoromethane	2.52	101	784180	46.957	ug/l	93
8) Diethyl Ether	2.87	74	121281	51.627	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.14	101	453446	47.089	ug/l	98
10) Methyl Iodide	3.29	142	627349	53.067	ug/l	97
11) Tert butyl alcohol	4.07	59	141717	255.035	ug/l	96
12) 1,1-Dichloroethene	3.11	96	335292	49.033	ug/l	96
13) Acrolein	3.02	56	16863	100.547	ug/l	93
14) Allyl chloride	3.61	41	555860	51.722	ug/l	93
15) Acrylonitrile	4.19	53	334072	271.972	ug/l	92
16) Acetone	3.21	43	699483	300.777	ug/l	94
17) Carbon Disulfide	3.36	76	873239	44.615	ug/l	99
18) Methyl Acetate	3.63	43	186347	59.927	ug/l #	88
19) Methyl tert-butyl Ether	4.23	73	938421	54.365	ug/l	99
20) Methylene Chloride	3.80	84	414533	47.181	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	380040	50.065	ug/l	91
22) Diisopropyl ether	5.11	45	1208839	51.735	ug/l	96
23) Vinyl Acetate	5.05	43	3847413	282.233	ug/l	98
24) 1,1-Dichloroethane	4.97	63	772730	53.688	ug/l	97
25) 2-Butanone	6.07	43	603663	271.829	ug/l	96
26) 2,2-Dichloropropane	6.02	77	742336	46.602	ug/l	100
27) cis-1,2-Dichloroethene	6.03	96	430281	49.829	ug/l	93
28) Bromochloromethane	6.43	49	267881	51.301	ug/l	97
29) Tetrahydrofuran	6.45	42	272785	270.975	ug/l	96
30) Chloroform	6.66	83	910785	51.381	ug/l	98
31) Cyclohexane	6.94	56	419529	45.769	ug/l	98
32) 1,1,1-Trichloroethane	6.86	97	881769	50.446	ug/l	98
36) 1,1-Dichloropropene	7.14	75	575517	45.852	ug/l	96
37) Ethyl Acetate	6.17	43	277649	51.686	ug/l	99
38) Carbon Tetrachloride	7.10	117	852214m	44.683	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063146.D
 Acq On : 19 Jul 2019 11:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/22/2019 10:42:53 AM

Quant Time: Jul 20 05:09:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	466767	43.014	ug/l	97
40) Benzene	7.44	78	1195726	45.485	ug/l	98
41) Methacrylonitrile	6.44	41	376469	51.692	ug/l #	94
42) 1,2-Dichloroethane	7.57	62	673181	48.065	ug/l	100
43) Isopropyl Acetate	9.24	43	357256	46.399	ug/l #	97
44) Trichloroethene	8.54	130	499025	49.119	ug/l	95
45) 1,2-Dichloropropane	8.93	63	322817	49.253	ug/l	92
46) Dibromomethane	9.06	93	265100	47.068	ug/l	91
47) Bromodichloromethane	9.37	83	712039	48.446	ug/l	98
48) Methyl methacrylate	9.12	41	259302	51.282	ug/l	95
49) 1,4-Dioxane	9.09	88	44180	1013.135	ug/l	93
51) 4-Methyl-2-Pentanone	10.30	43	1322328	258.931	ug/l	100
52) Toluene	10.51	92	792627	45.152	ug/l	97
53) t-1,3-Dichloropropene	10.91	75	613421	48.715	ug/l	98
54) cis-1,3-Dichloropropene	10.04	75	607872	46.688	ug/l	91
55) 1,1,2-Trichloroethane	11.18	97	303777	50.074	ug/l	99
56) Ethyl methacrylate	11.04	69	354711	52.331	ug/l	97
57) 1,3-Dichloropropane	11.40	76	454935	49.282	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	834482	221.105	ug/l	100
59) 2-Hexanone	11.53	43	1048003	266.094	ug/l	98
60) Dibromochloromethane	11.69	129	558709	48.045	ug/l	94
61) 1,2-Dibromoethane	11.80	107	371752	51.194	ug/l	93
64) Tetrachloroethene	11.25	164	400113	47.456	ug/l	97
65) Chlorobenzene	12.40	112	1026125	50.238	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	495934	52.370	ug/l	97
67) Ethyl Benzene	12.52	91	1750692	49.330	ug/l	98
68) m/p-Xylenes	12.66	106	1294026	101.801	ug/l	98
69) o-Xylene	13.04	106	614065	50.947	ug/l	98
70) Styrene	13.07	104	1089453	51.638	ug/l	96
71) Bromoform	13.23	173	363944	54.895	ug/l	99
73) Isopropylbenzene	13.40	105	1834595	46.640	ug/l	98
74) N-amyl acetate	13.26	43	514476	46.897	ug/l	92
75) 1,1,2,2-Tetrachloroethane	13.69	83	344252	48.101	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	379011	48.373	ug/l	95
77) Bromobenzene	13.67	156	522933	46.879	ug/l	83
78) n-propylbenzene	13.77	91	2032843	44.909	ug/l	99
79) 2-Chlorotoluene	13.84	91	1160046	42.385	ug/l	96
80) 1,3,5-Trimethylbenzene	13.93	105	1542942	45.006	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	97674	47.339	ug/l	97
82) 4-Chlorotoluene	13.94	91	1470353	46.006	ug/l	91
83) tert-Butylbenzene	14.19	119	1681212	43.371	ug/l	89
84) 1,2,4-Trimethylbenzene	14.24	105	1644388	48.112	ug/l	97
85) sec-Butylbenzene	14.36	105	1896550	46.049	ug/l	97
86) p-Isopropyltoluene	14.49	119	1726792	44.944	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	930127	46.691	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	911198	47.712	ug/l	96
89) n-Butylbenzene	14.80	91	1612673	45.539	ug/l	98
90) Hexachloroethane	15.00	117	474958	46.242	ug/l	77
91) 1,2-Dichlorobenzene	14.81	146	852385	48.052	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	65350	47.638	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
Data File : VD063146.D
Acq On : 19 Jul 2019 11:20
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM

Quant Time: Jul 20 05:09:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	643530	48.288	ug/l	98
94) Hexachlorobutadiene	16.04	225	472025	48.052	ug/l	95
95) Naphthalene	16.13	128	908752	46.616	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	514334	47.975	ug/l	99

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

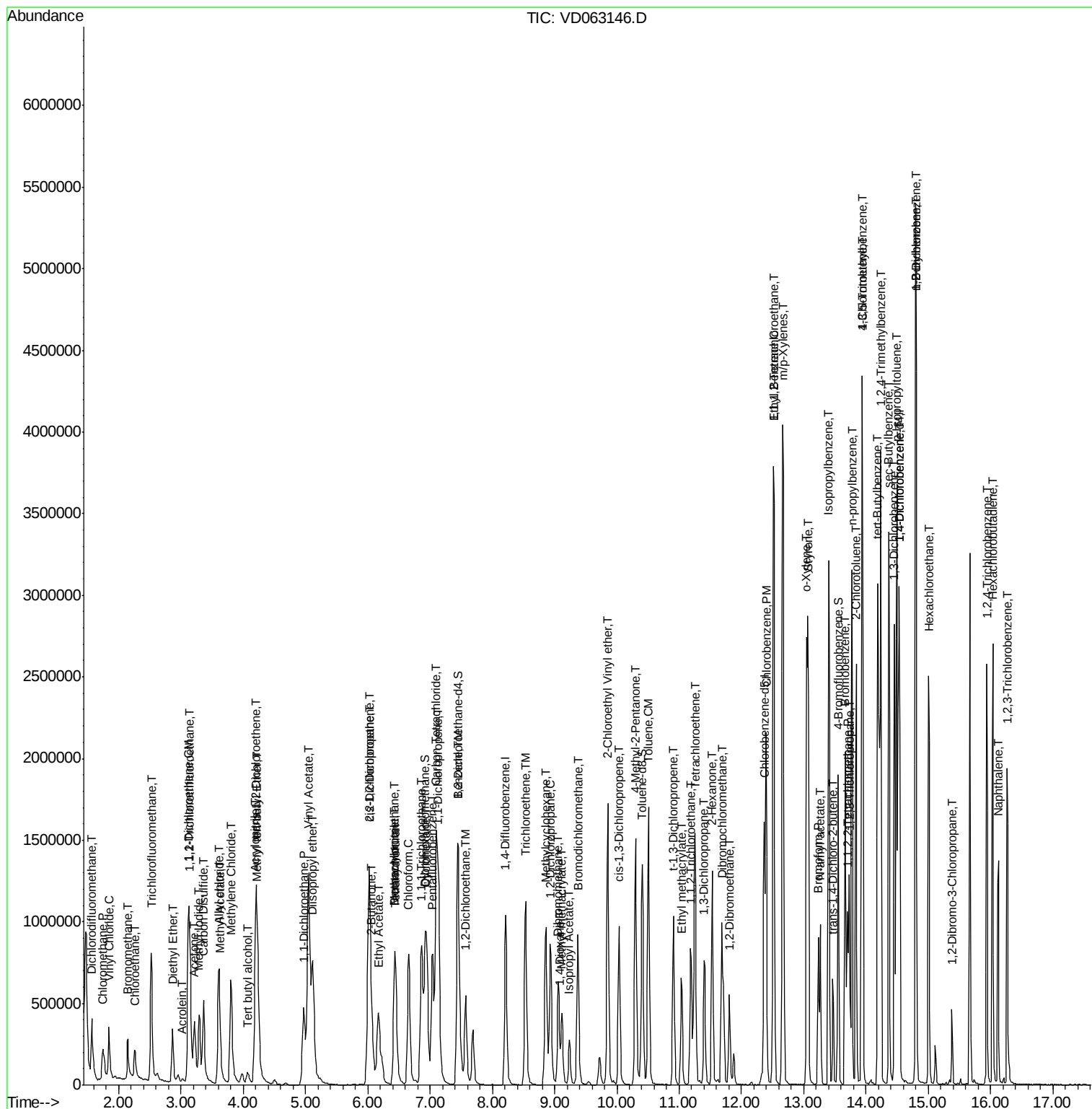
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071919\
Data File : VD063146.D
Acq On : 19 Jul 2019 11:20
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00u/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

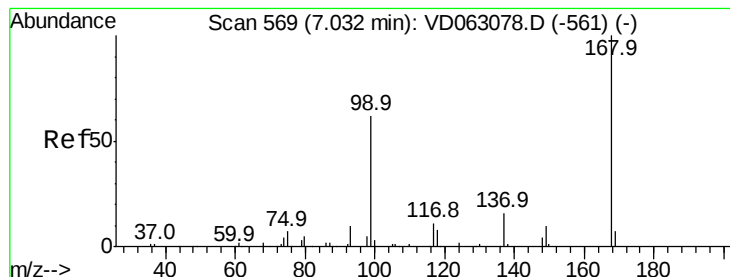
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM

Quant Time: Jul 20 05:09:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 772952

Ion Ratio Lower Upper

168 100

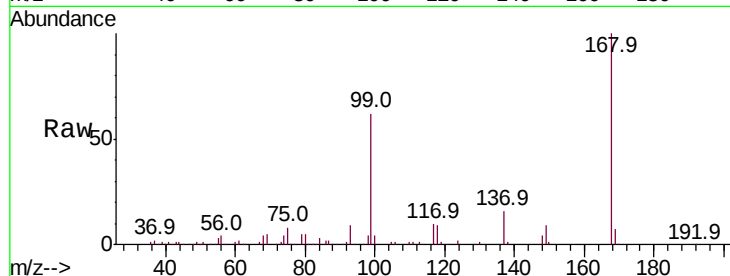
99 62.1 50.8 76.2

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

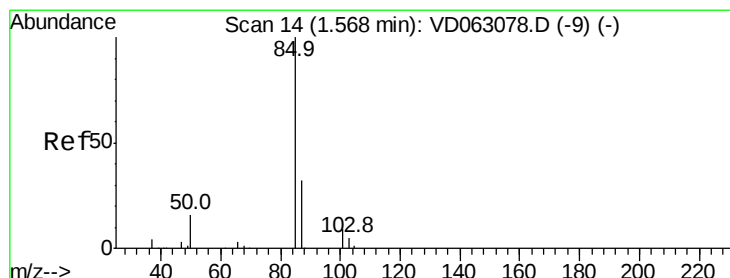
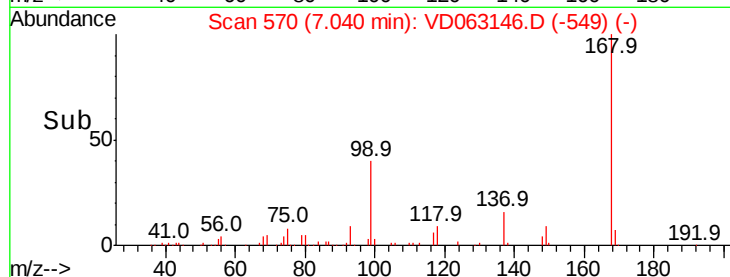
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 49.121 ug/l

RT: 1.57 min Scan# 14

Delta R.T. -0.00 min

Lab File: VD063146.D

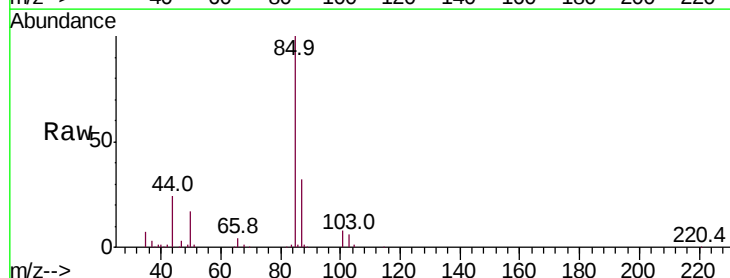
Acq: 19 Jul 2019 11:20

Tgt Ion: 85 Resp: 404030

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

200000

150000

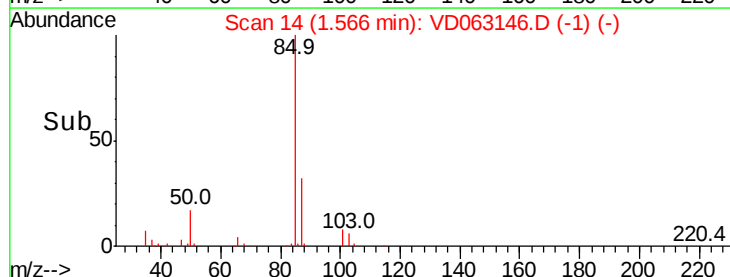
100000

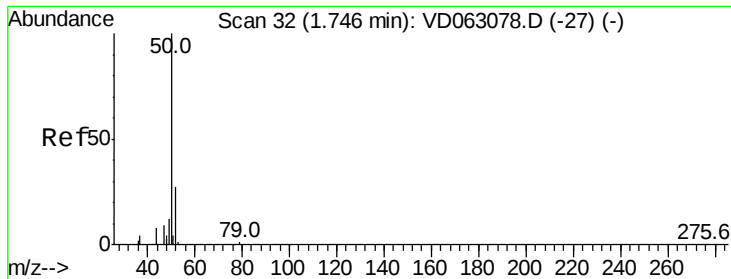
50000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 50.238 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 351380

Ion Ratio Lower Upper

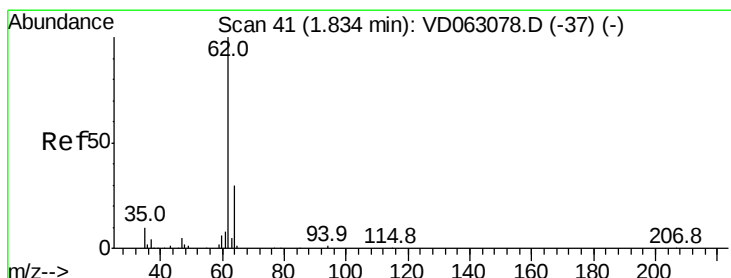
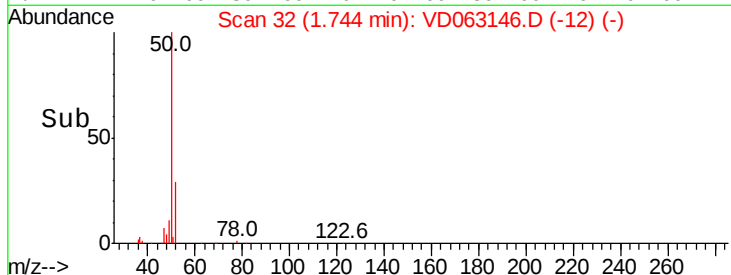
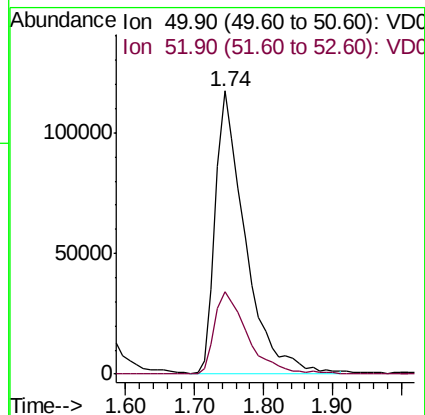
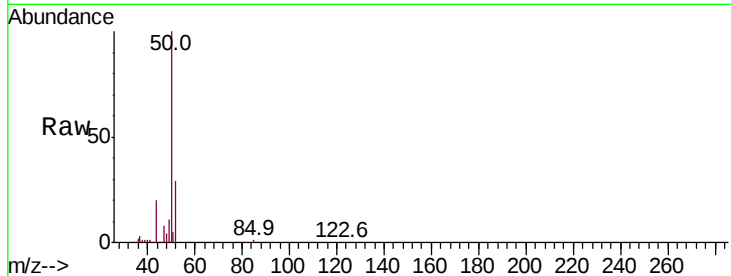
50 100

52 28.9 21.4 32.2

Manual Integrations
APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#4

Vinyl Chloride

Concen: 43.558 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.01 min

Lab File: VD063146.D

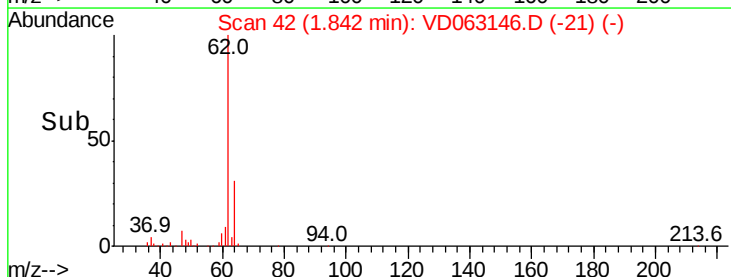
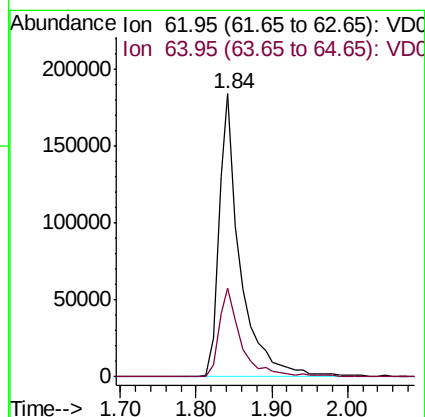
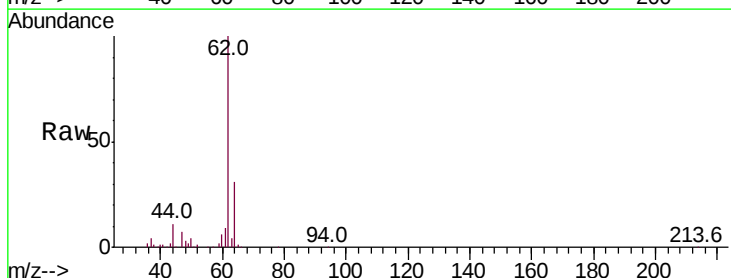
Acq: 19 Jul 2019 11:20

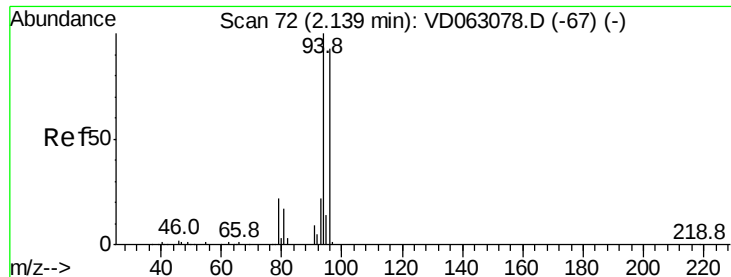
Tgt Ion: 62 Resp: 359333

Ion Ratio Lower Upper

62 100

64 31.3 24.4 36.6





#5

Bromomethane

Concen: 55.934 ug/l

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 174678

Ion Ratio Lower Upper

94 100

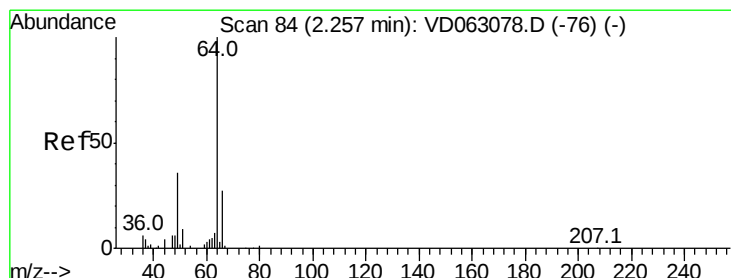
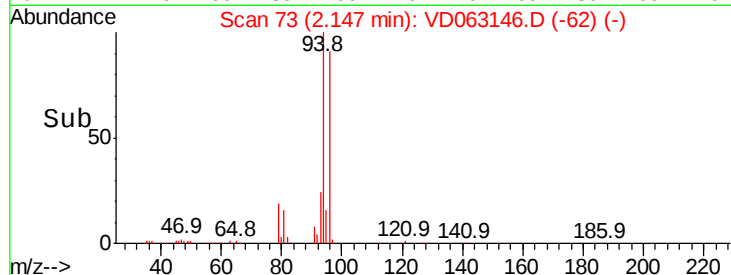
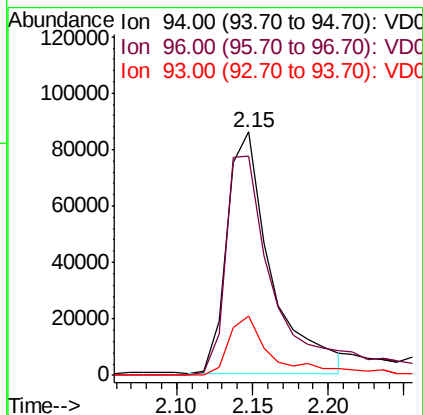
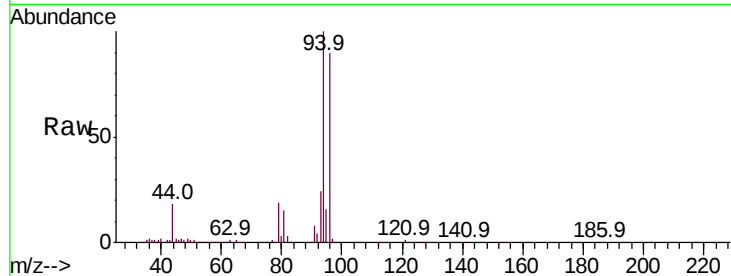
96 91.9 74.2 111.2

93 24.2 17.8 26.6

Manual Integrations
APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#6

Chloroethane

Concen: 50.191 ug/l

RT: 2.26 min Scan# 84

Delta R.T. -0.00 min

Lab File: VD063146.D

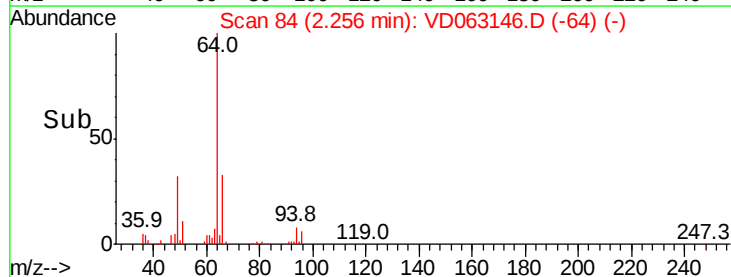
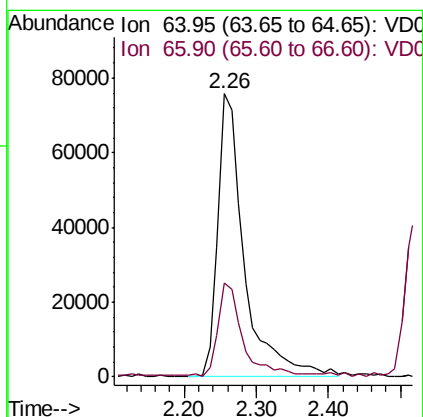
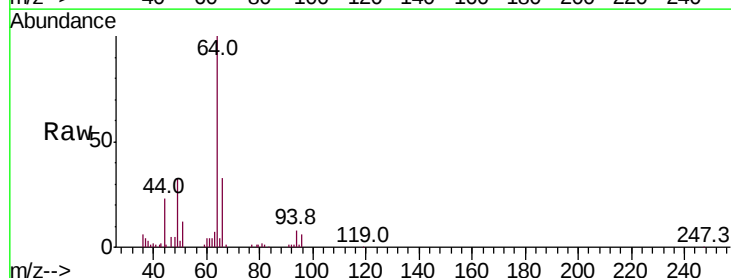
Acq: 19 Jul 2019 11:20

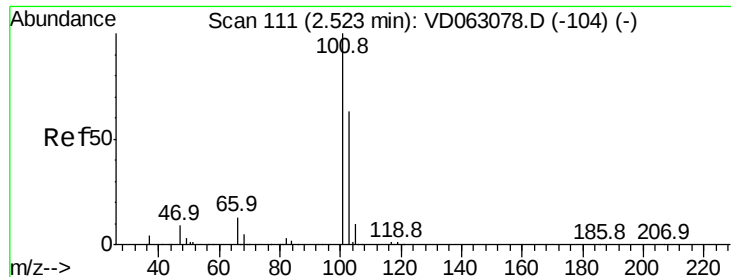
Tgt Ion: 64 Resp: 192336

Ion Ratio Lower Upper

64 100

66 33.0 22.5 33.7





#7

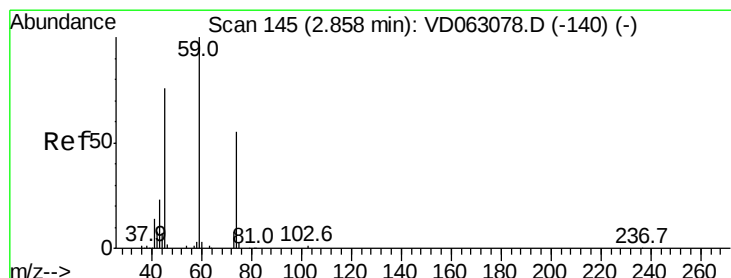
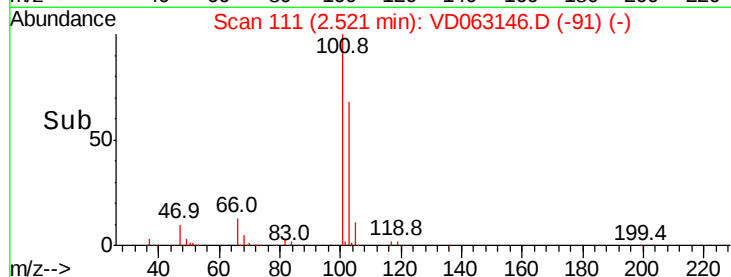
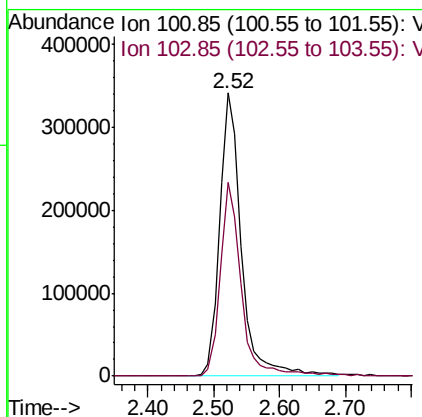
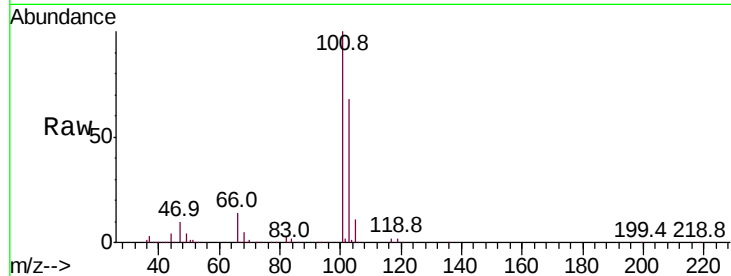
Trichlorofluoromethane
 Concen: 46.957 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.00 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.5	50.6	76.0

Manual Integrations
 APPROVED

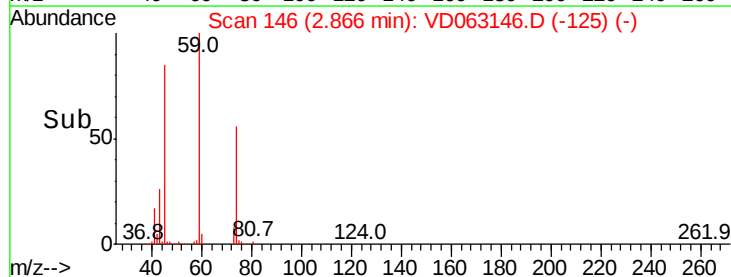
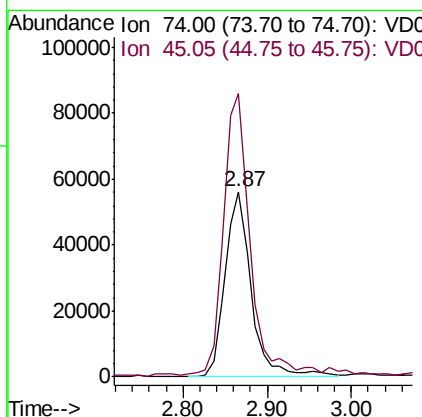
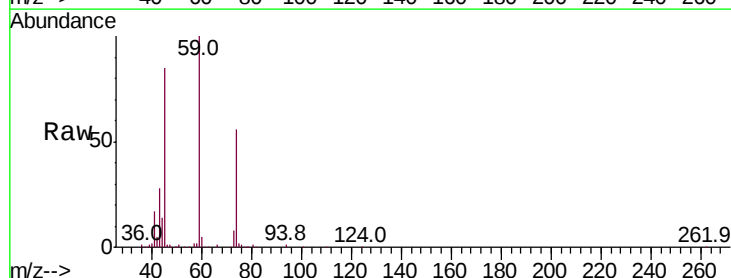
MMDadoda
 7/22/2019 10:42:53 AM

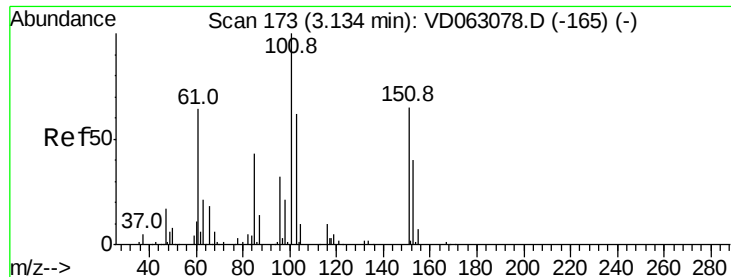


#8

Diethyl Ether
 Concen: 51.627 ug/l
 RT: 2.87 min Scan# 146
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	153.0	69.5	208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.089 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

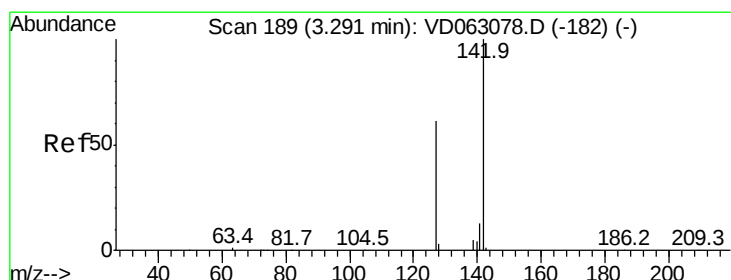
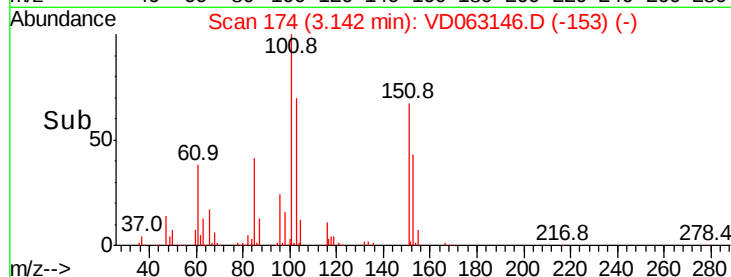
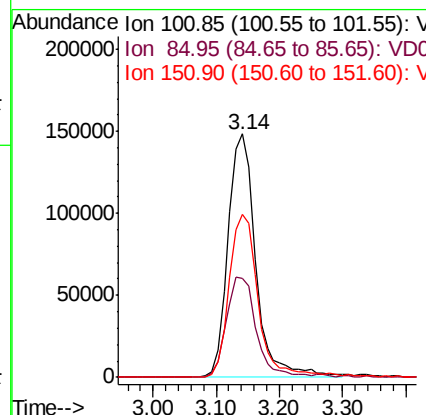
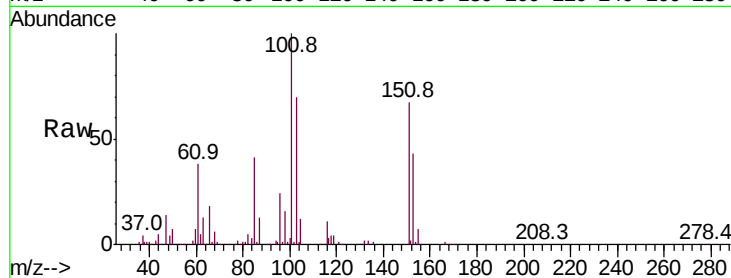
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	453446
Ion Ratio	Lower	Upper	
101	100		
85	40.9	34.6	51.8
151	66.9	52.4	78.6

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#10

Methyl Iodide

Concen: 53.067 ug/l

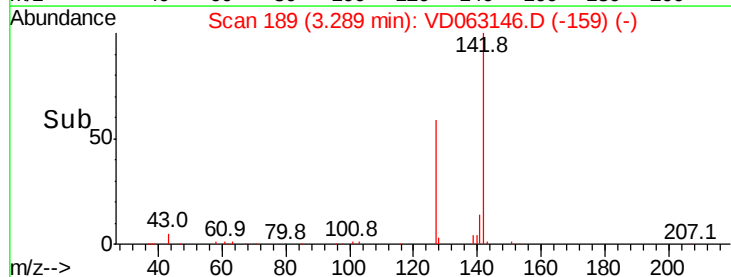
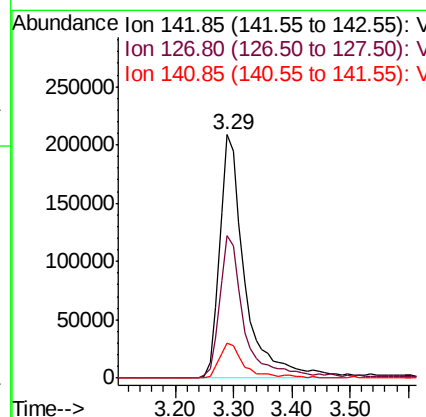
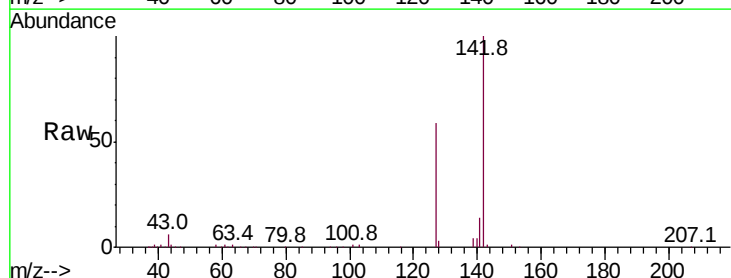
RT: 3.29 min Scan# 189

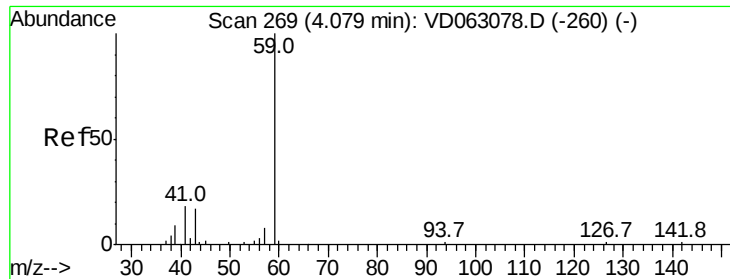
Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	142	Resp:	627349
Ion Ratio	Lower	Upper	
142	100		
127	58.7	48.6	73.0
141	14.3	10.6	16.0





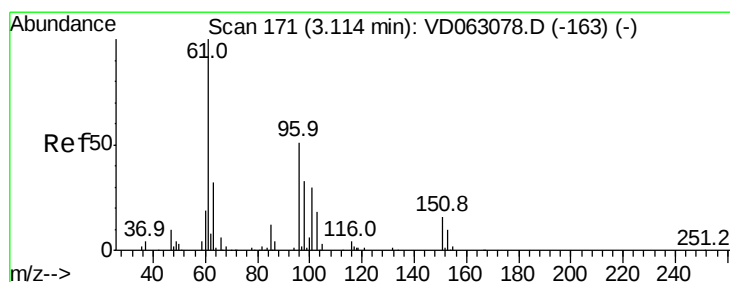
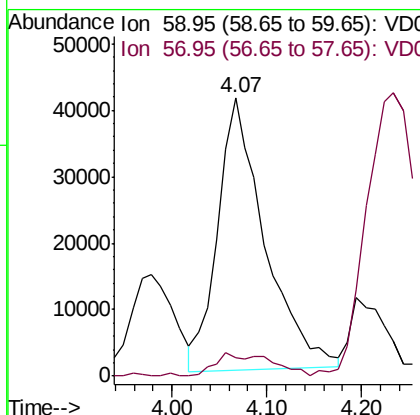
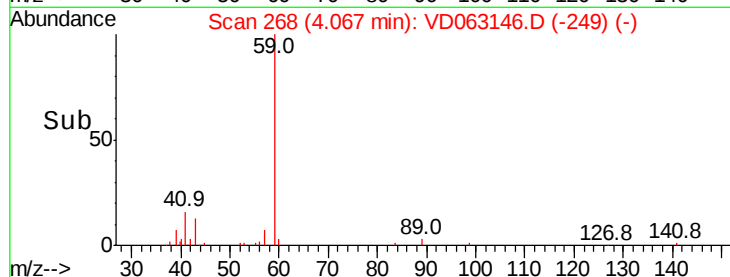
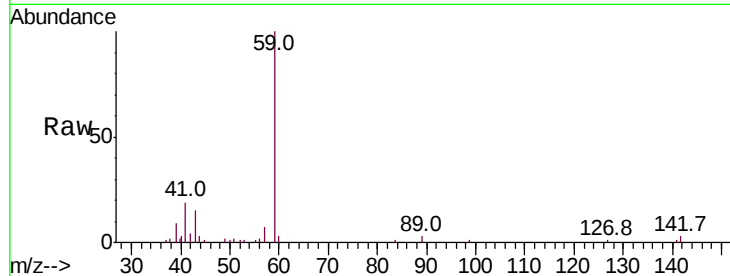
#11
Tert butyl alcohol
Concen: 255.035 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 141717
Ion Ratio Lower Upper
59 100
57 6.5 6.4 9.6

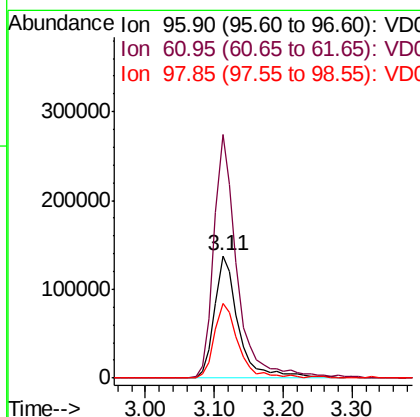
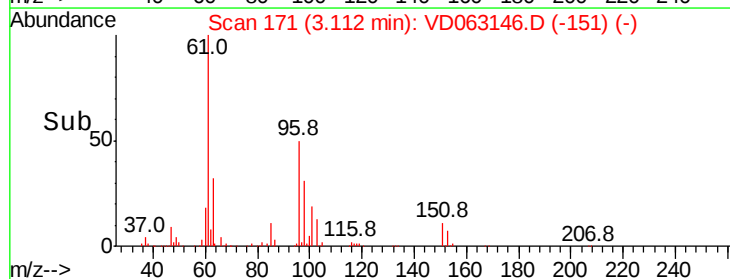
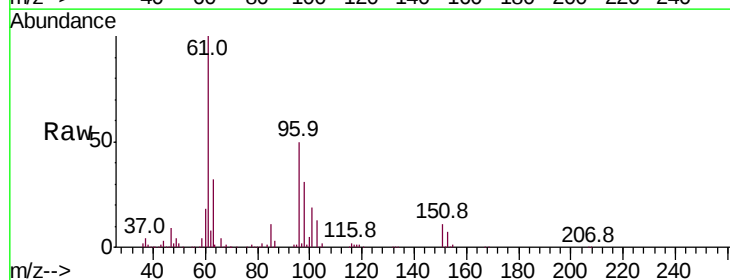
Manual Integrations
APPROVED

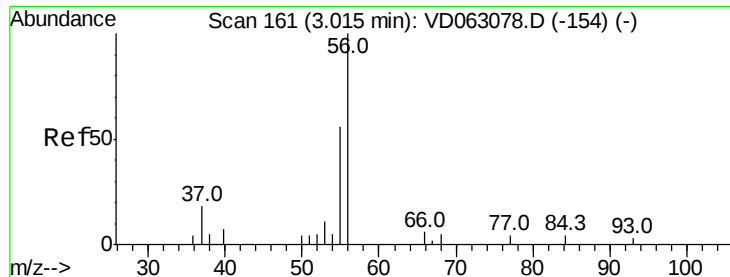
MMDadoda
7/22/2019 10:42:53 AM



#12
1,1-Dichloroethene
Concen: 49.033 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 96 Resp: 335292
Ion Ratio Lower Upper
96 100
61 199.3 155.5 233.3
98 60.8 51.5 77.3





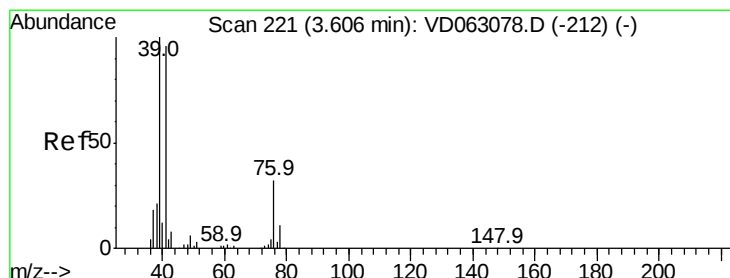
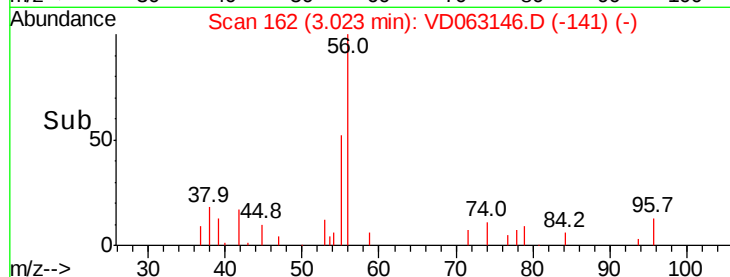
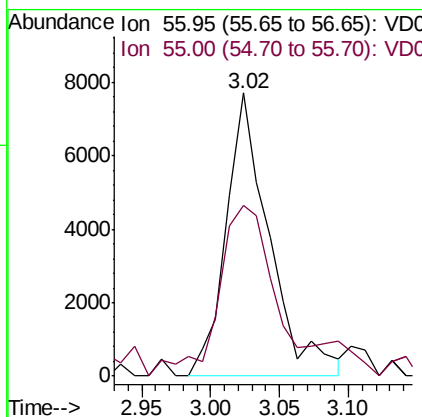
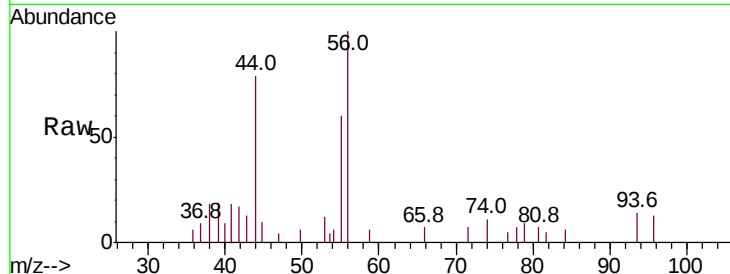
#13
Acrolein
Concen: 100.547 ug/l
RT: 3.02 min Scan# 162
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 16863
Ion Ratio Lower Upper
56 100
55 60.3 53.0 79.4

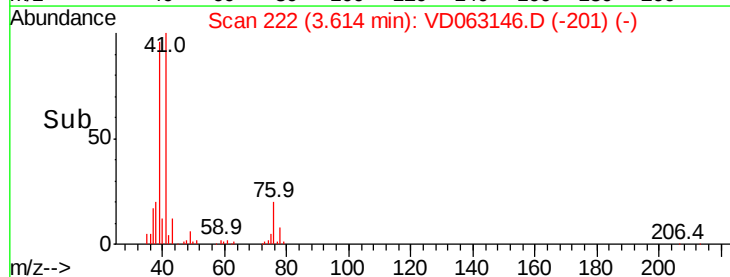
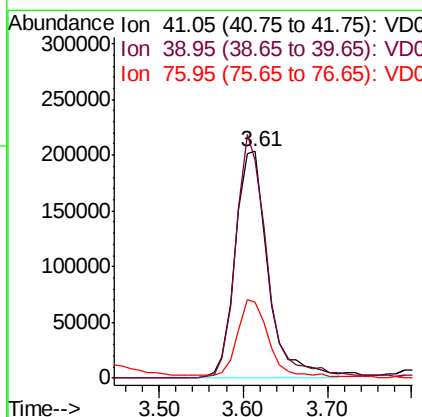
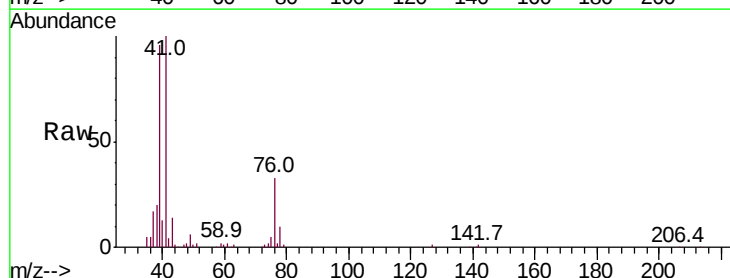
Manual Integrations
APPROVED

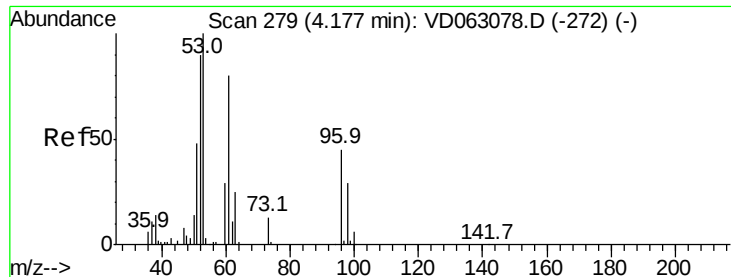
MMDadoda
7/22/2019 10:42:53 AM



#14
Allyl chloride
Concen: 51.722 ug/l
RT: 3.61 min Scan# 222
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 41 Resp: 555860
Ion Ratio Lower Upper
41 100
39 96.0 83.5 125.3
76 33.4 27.8 41.8





#15

Acrylonitrile

Concen: 271.972 ug/l

RT: 4.19 min Scan# 280

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

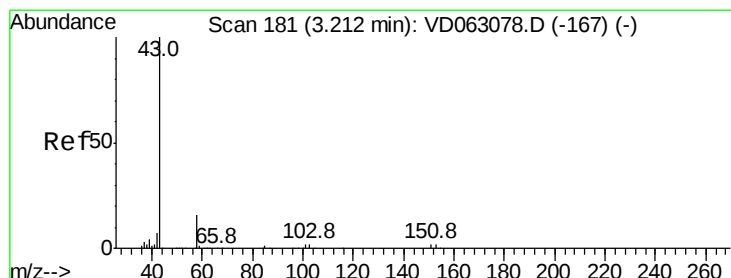
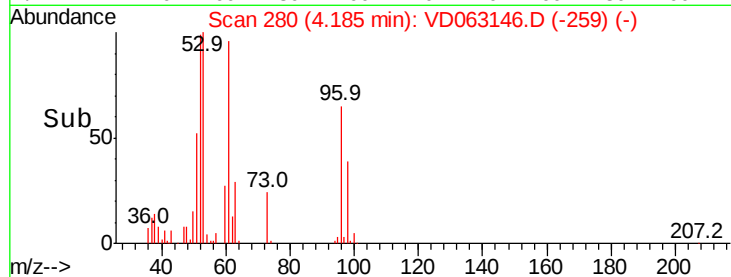
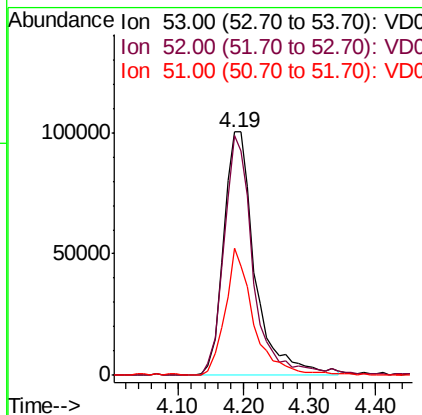
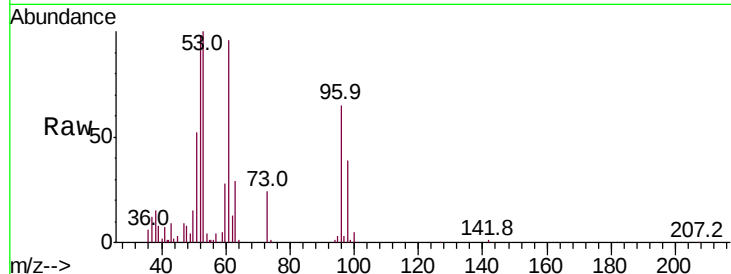
ClientSampled :

VSTDCCC050

Tot Ion:	53	Resp:	334072
Ion Ratio	Lower	Upper	
53	100		
52	98.3	72.3	108.5
51	52.3	38.0	57.0

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#16

Acetone

Concen: 300.777 ug/l

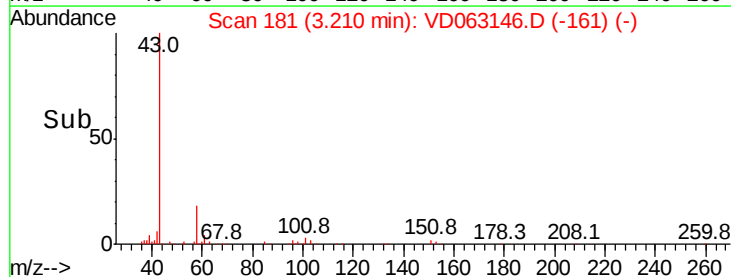
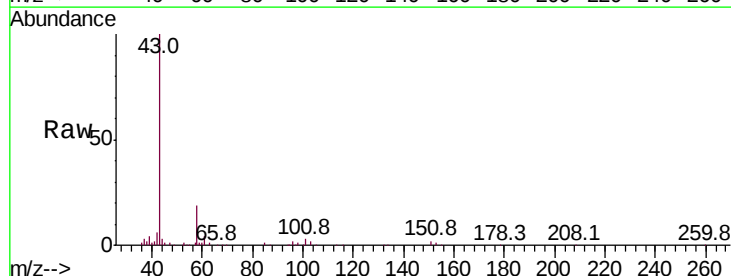
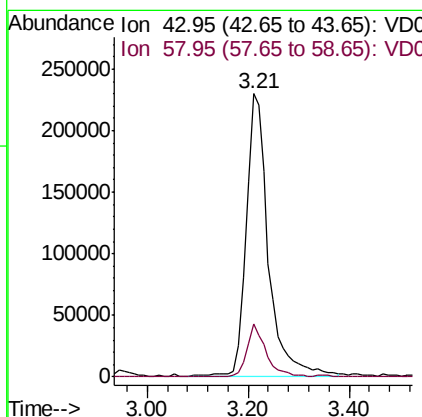
RT: 3.21 min Scan# 181

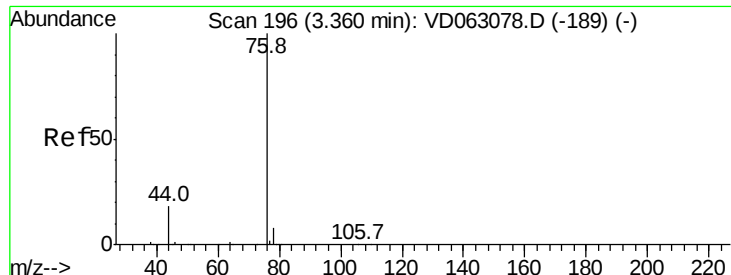
Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	43	Resp:	699483
Ion Ratio	Lower	Upper	
43	100		
58	18.6	13.0	19.4





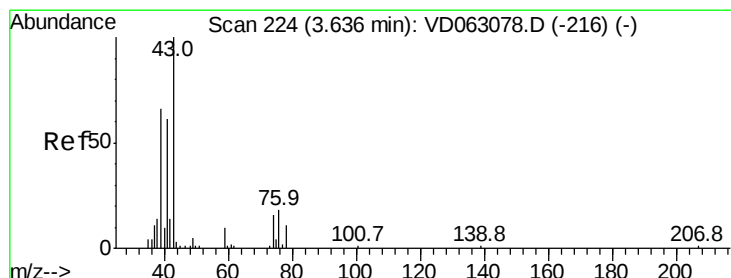
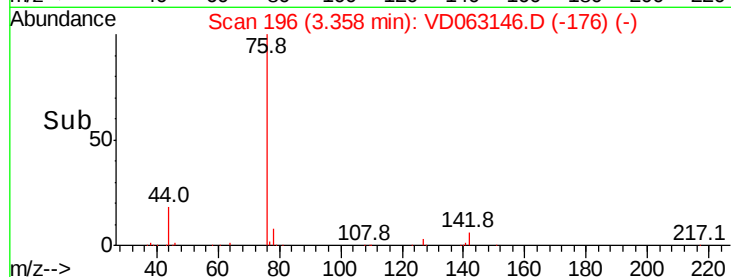
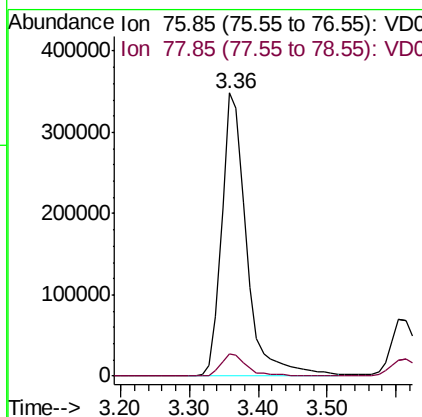
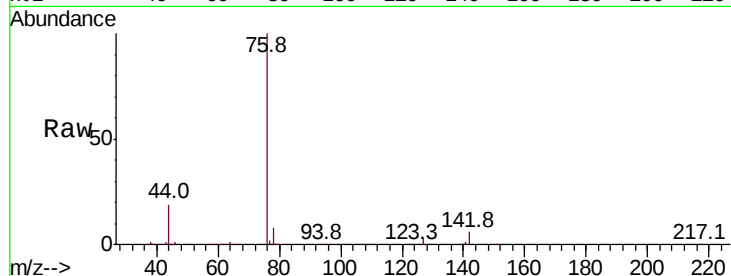
#17
Carbon Disulfide
Concen: 44.615 ug/l
RT: 3.36 min Scan# 196
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 873239
Ion Ratio Lower Upper
76 100
78 8.0 6.7 10.1

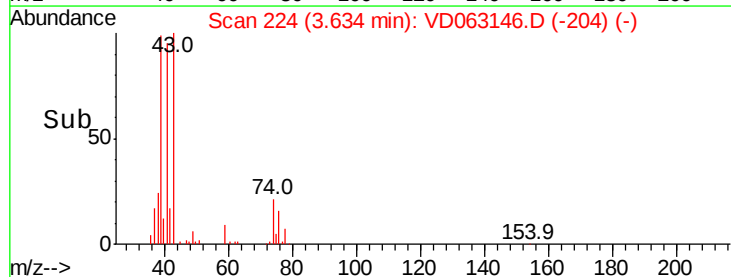
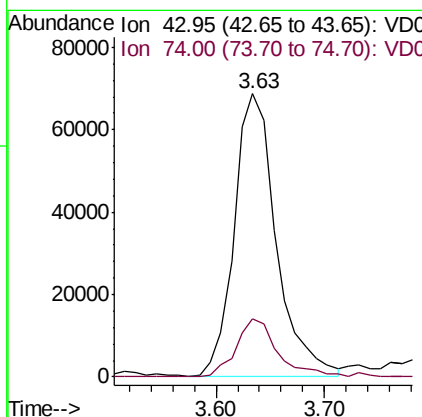
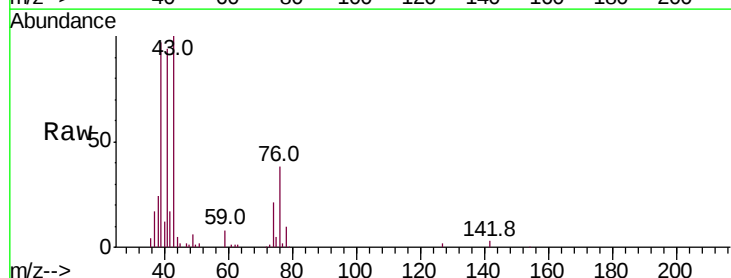
Manual Integrations
APPROVED

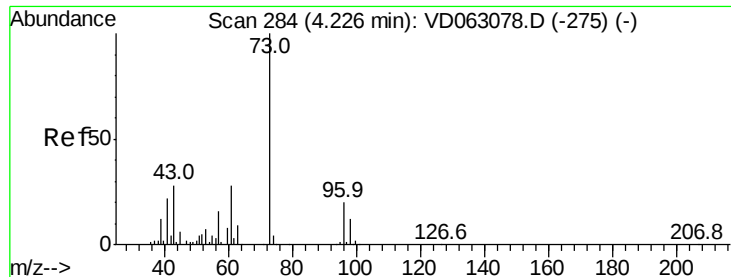
MMDadoda
7/22/2019 10:42:53 AM



#18
Methyl Acetate
Concen: 59.927 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 43 Resp: 186347
Ion Ratio Lower Upper
43 100
74 20.6 12.5 18.7#





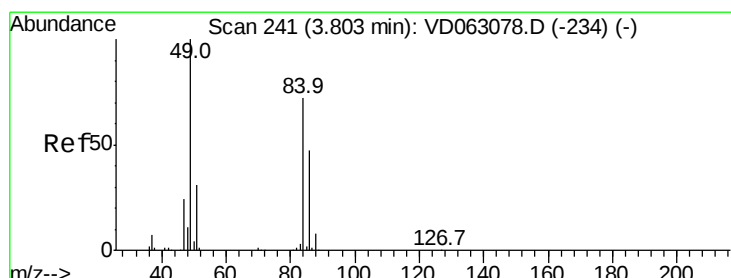
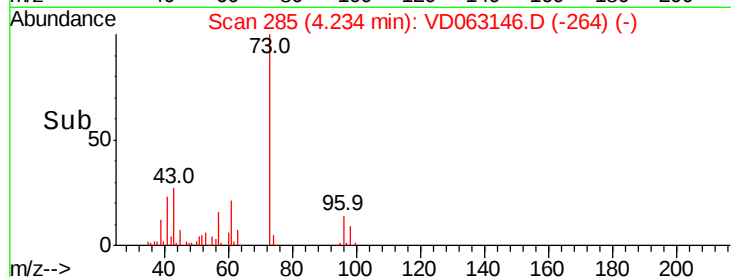
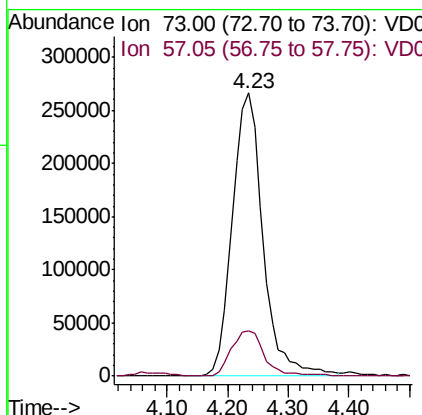
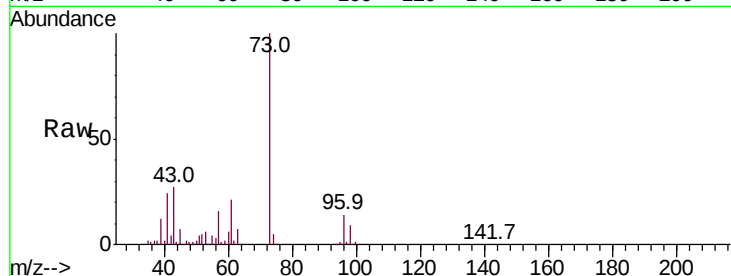
#19
Methyl tert-butyl Ether
Concen: 54.365 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 938421
Ion Ratio Lower Upper
73 100
57 16.0 13.1 19.7

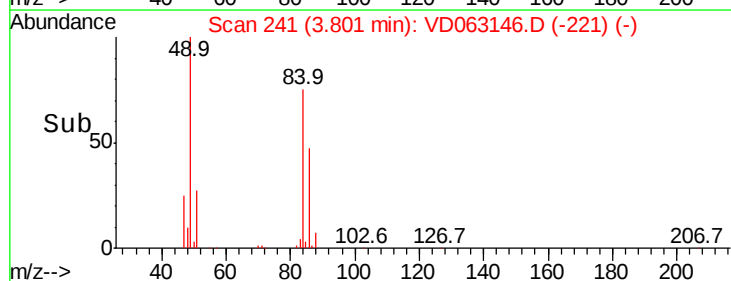
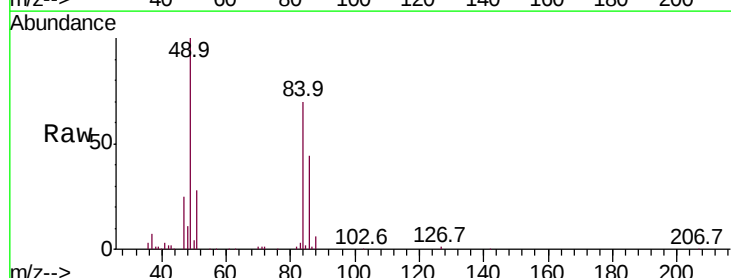
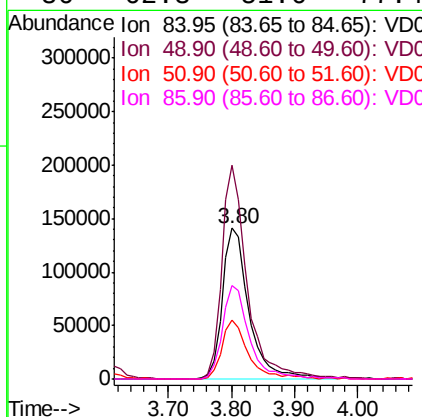
Manual Integrations
APPROVED

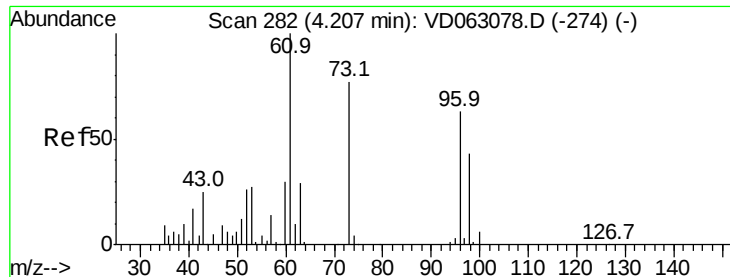
MMDadoda
7/22/2019 10:42:53 AM



#20
Methylene Chloride
Concen: 47.181 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 84 Resp: 414533
Ion Ratio Lower Upper
84 100
49 141.8 110.5 165.7
51 39.5 34.6 51.8
86 62.3 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 50.065 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

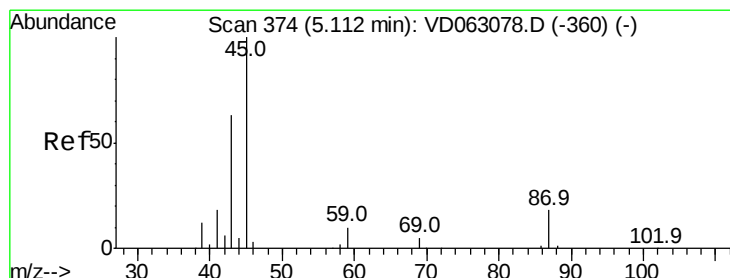
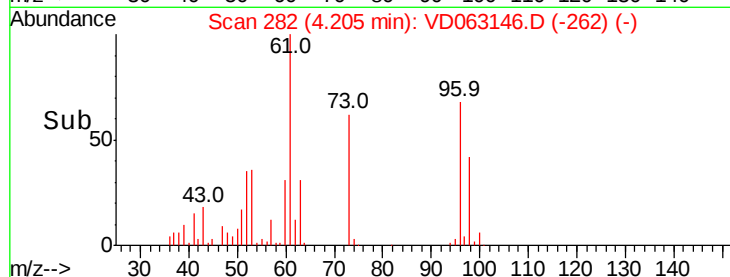
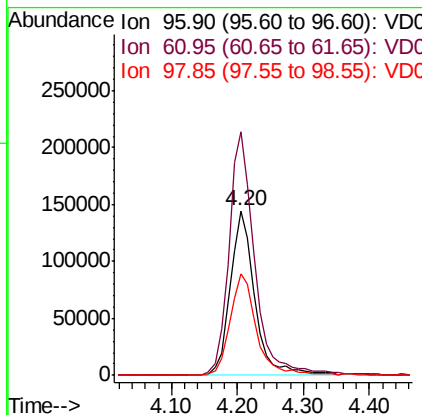
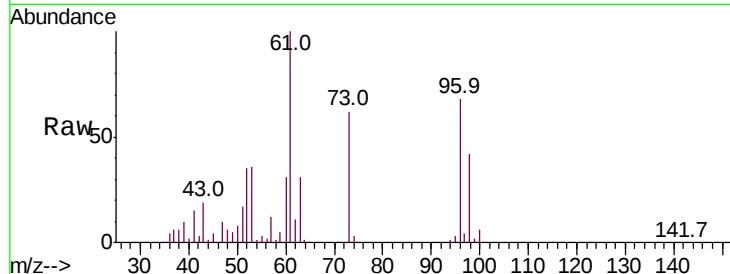
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	380040
Ion	Ratio	Lower	Upper
96	100		
61	148.0	128.0	192.0
98	61.7	55.2	82.8

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#22

Diisopropyl ether

Concen: 51.735 ug/l

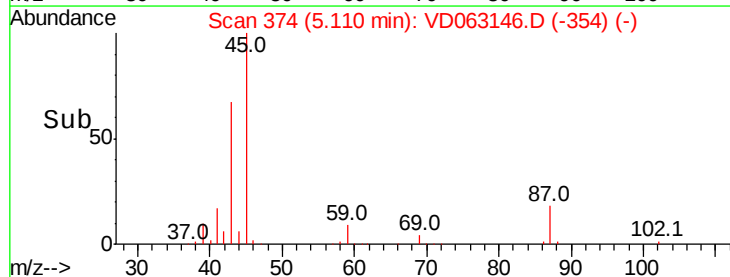
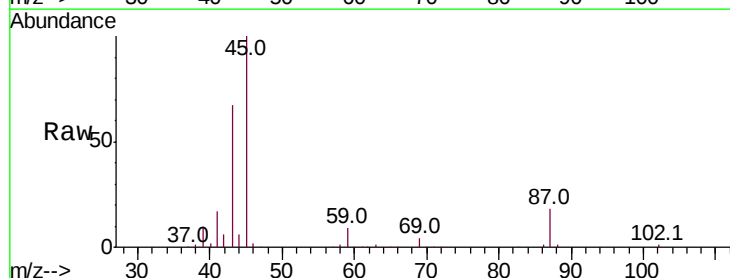
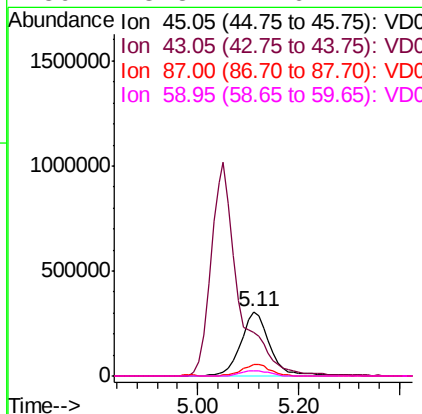
RT: 5.11 min Scan# 374

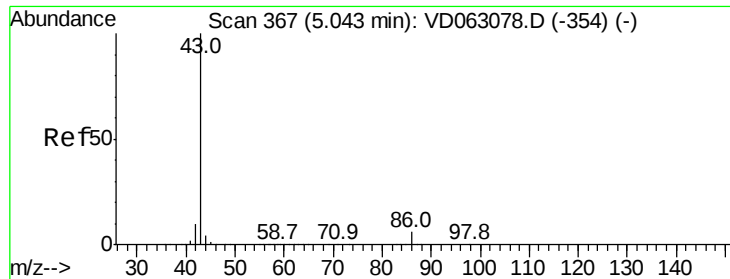
Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	45	Resp:	1208839
Ion	Ratio	Lower	Upper
45	100		
43	67.2	50.5	75.7
87	17.8	15.1	22.7
59	8.8	7.6	11.4





#23

Vinyl Acetate

Concen: 282.233 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3847413

Ion Ratio Lower Upper

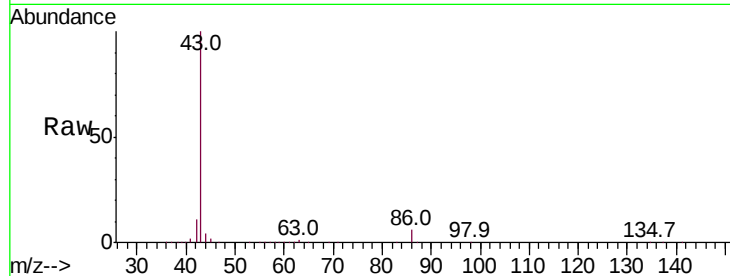
43 100

86 5.8 5.0 7.6

Manual Integrations
APPROVED

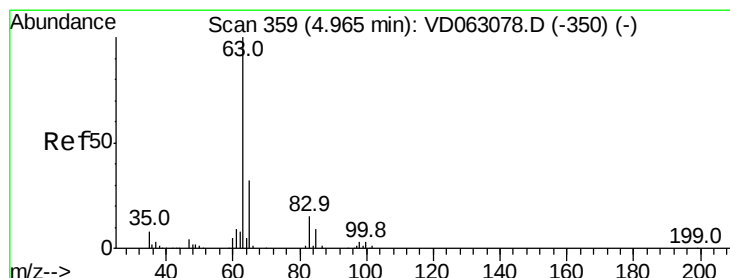
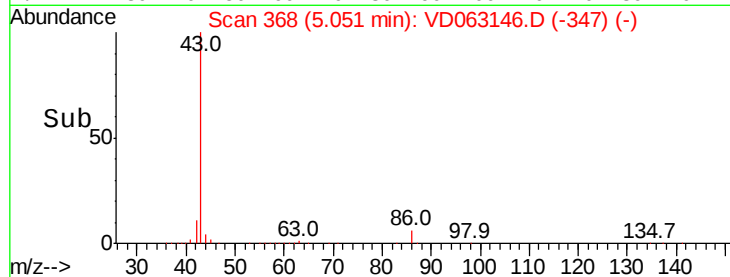
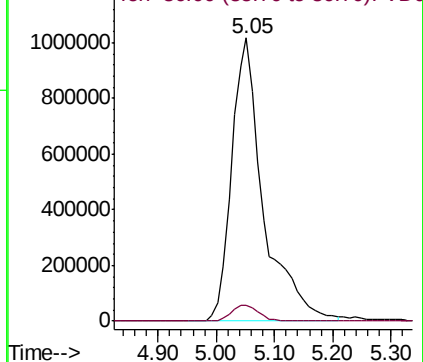
MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 53.688 ug/l

RT: 4.97 min Scan# 360

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

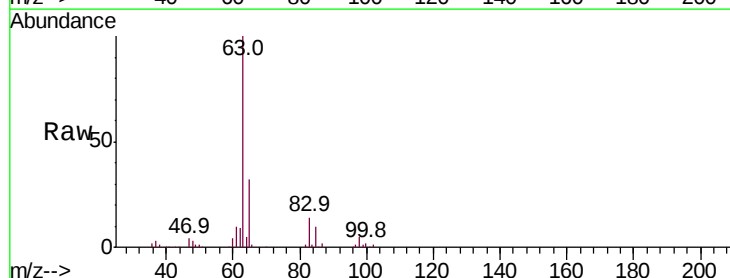
Tgt Ion: 63 Resp: 772730

Ion Ratio Lower Upper

63 100

98 4.7 1.7 5.1

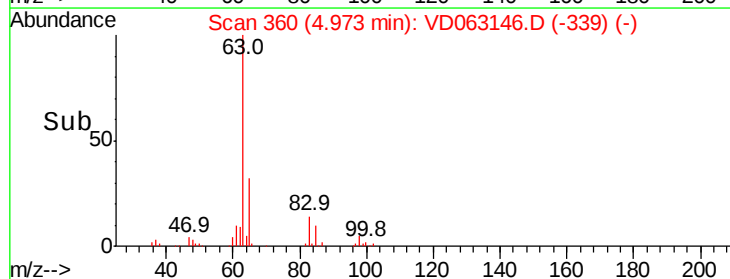
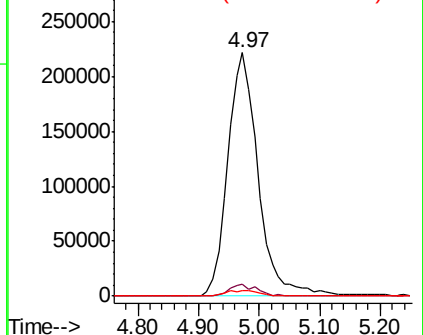
100 2.5 1.5 4.5

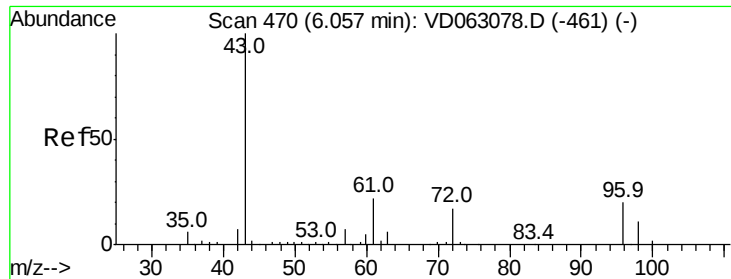


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 271.829 ug/l

RT: 6.07 min Scan# 471

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 603663

Ion Ratio Lower Upper

43 100

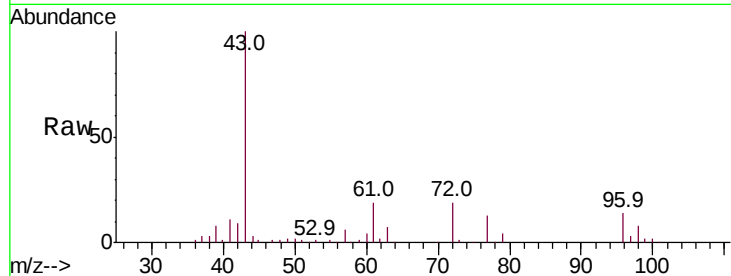
72 18.6 13.4 20.0

Manual Integrations

APPROVED

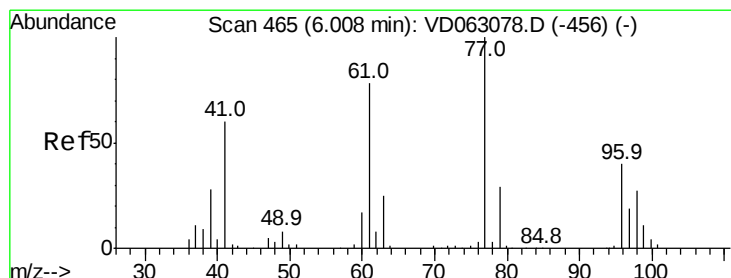
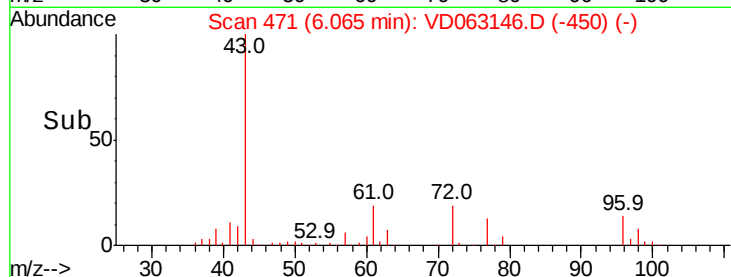
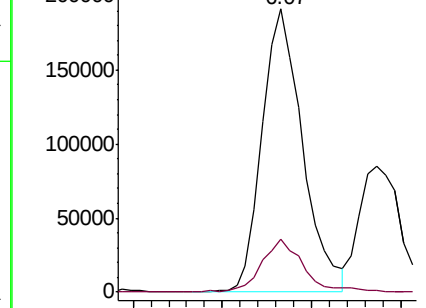
MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 46.602 ug/l

RT: 6.02 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD063146.D

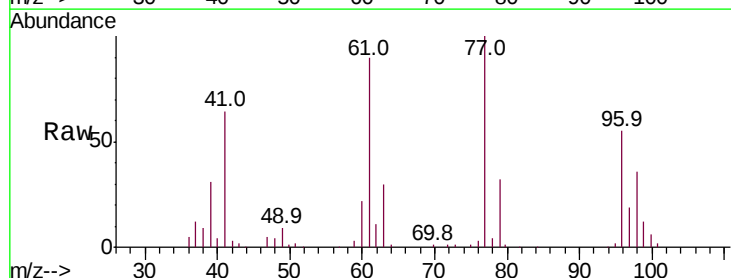
Acq: 19 Jul 2019 11:20

Tgt Ion: 77 Resp: 742336

Ion Ratio Lower Upper

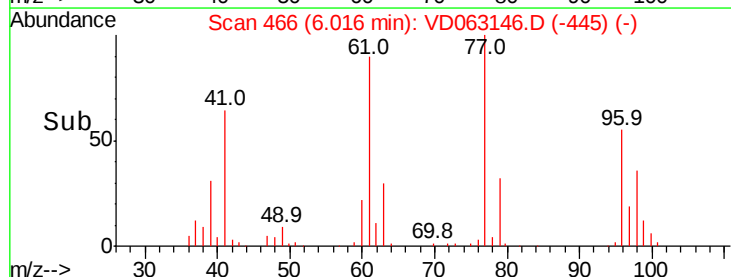
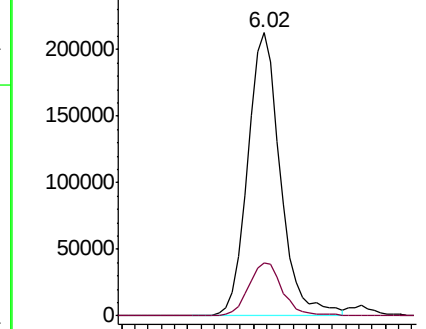
77 100

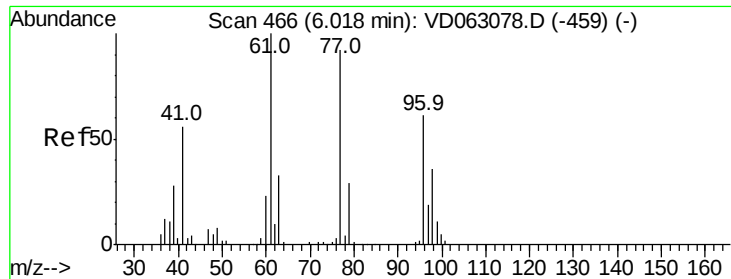
97 18.8 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 49.829 ug/l

RT: 6.03 min Scan# 467

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 430281

Ion Ratio Lower Upper

96 100

61 172.8 0.0 329.6

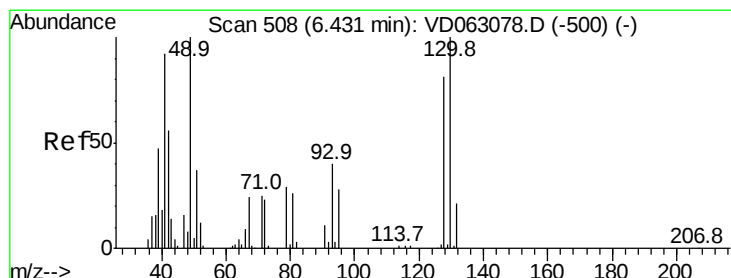
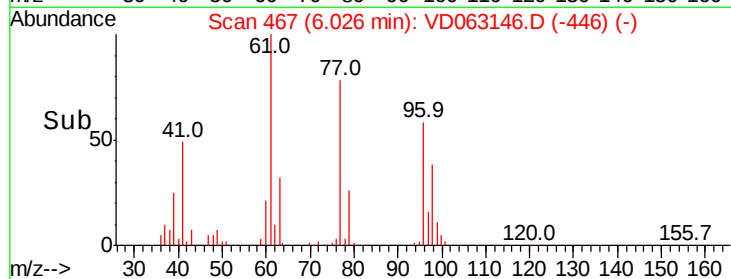
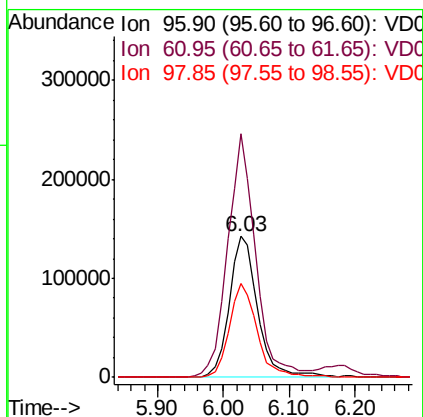
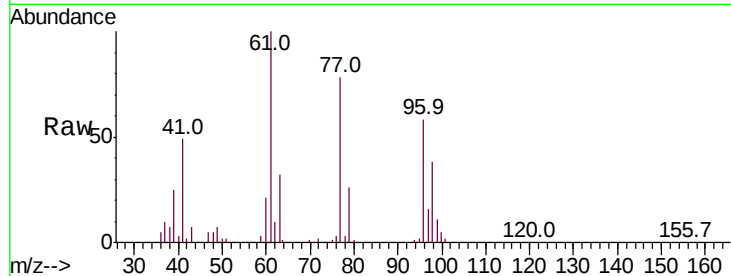
98 66.4 0.0 118.4

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#28

Bromochloromethane

Concen: 51.301 ug/l

RT: 6.43 min Scan# 508

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

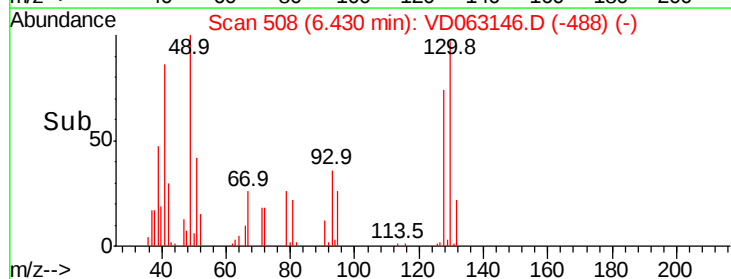
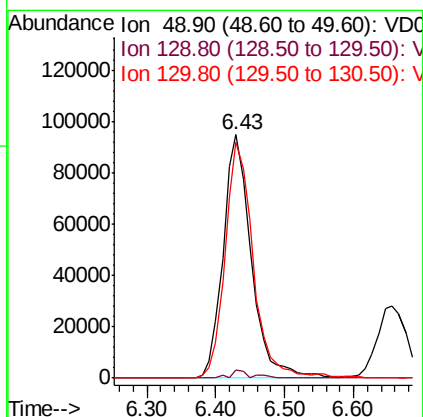
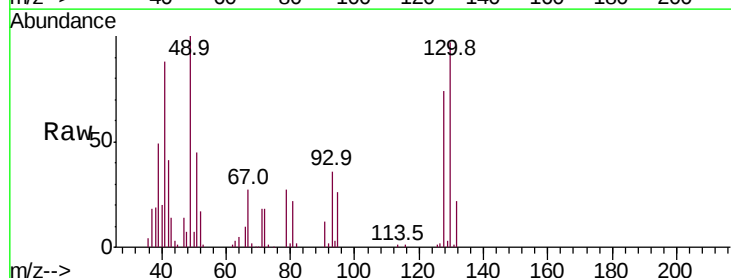
Tgt Ion: 49 Resp: 267881

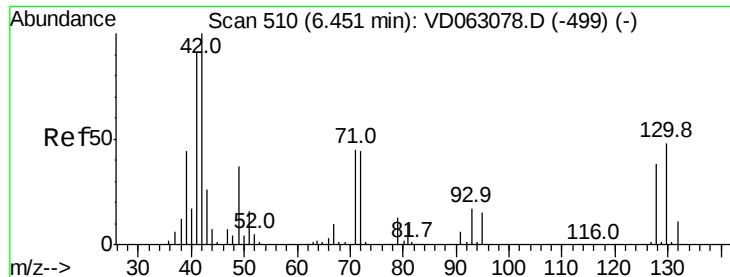
Ion Ratio Lower Upper

49 100

129 3.4 0.0 3.6

130 97.1 80.3 120.5





#29

Tetrahydrofuran

Concen: 270.975 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

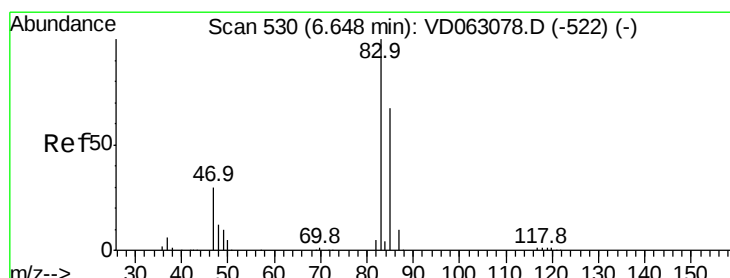
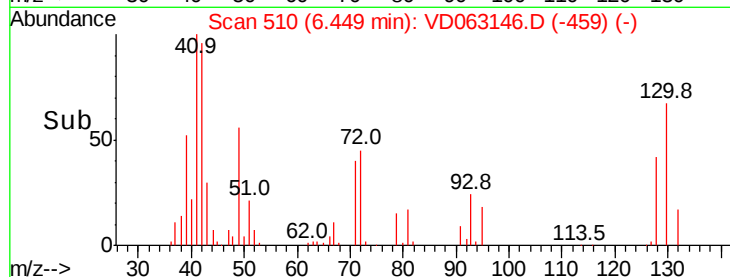
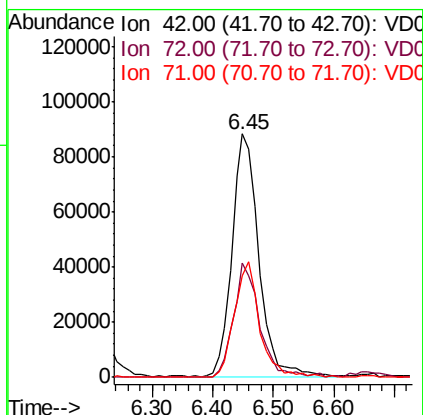
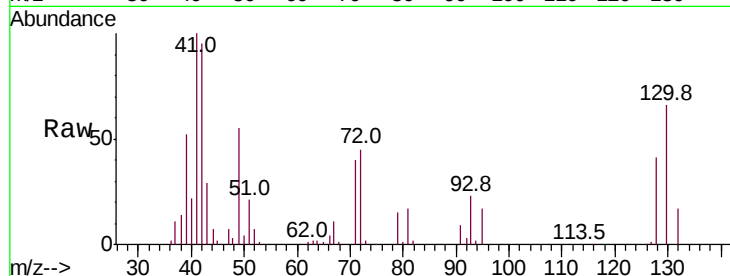
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	272785
Ion Ratio	Lower	Upper	
42	100		
72	45.1	33.7	50.5
71	44.7	34.2	51.2

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#30

Chloroform

Concen: 51.381 ug/l

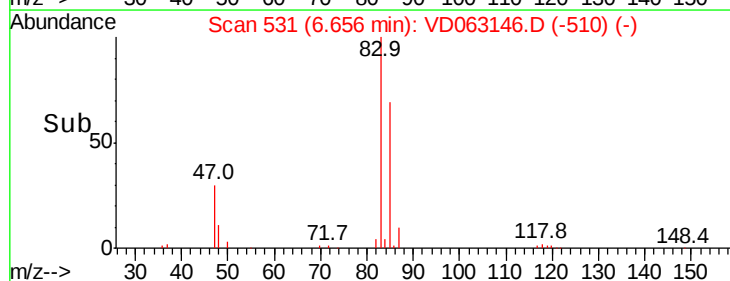
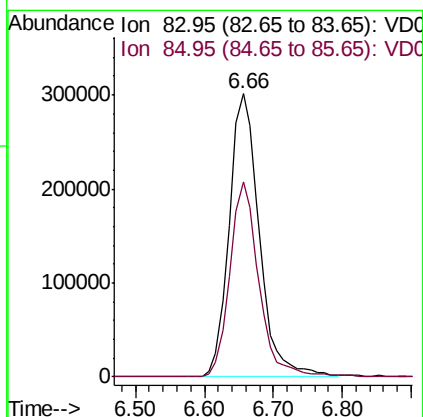
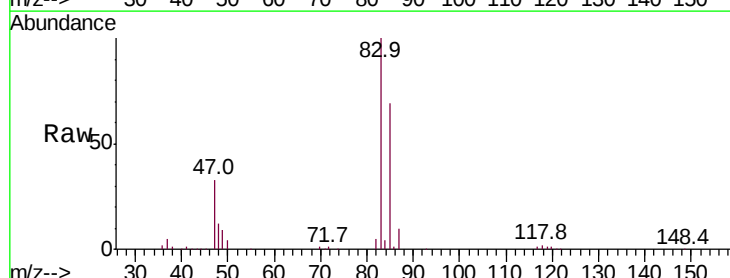
RT: 6.66 min Scan# 531

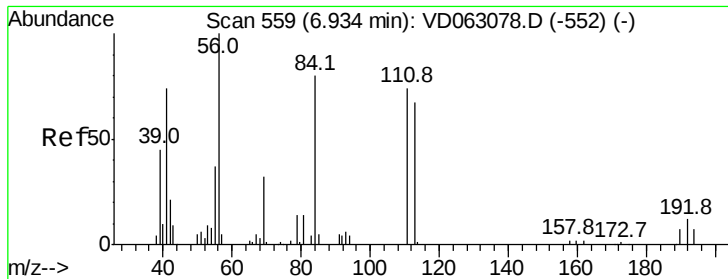
Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	83	Resp:	910785
Ion Ratio	Lower	Upper	
83	100		
85	69.0	53.8	80.8





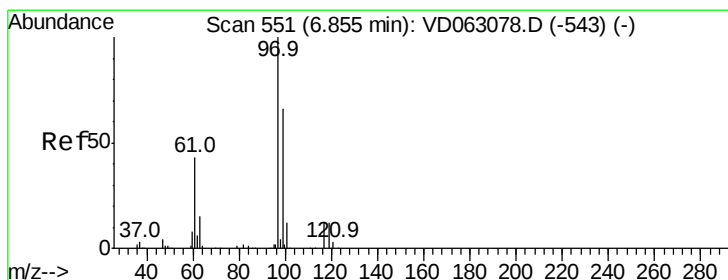
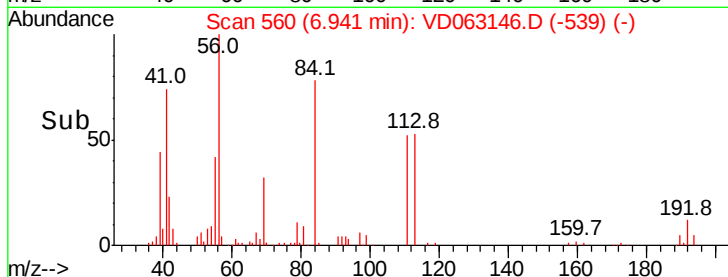
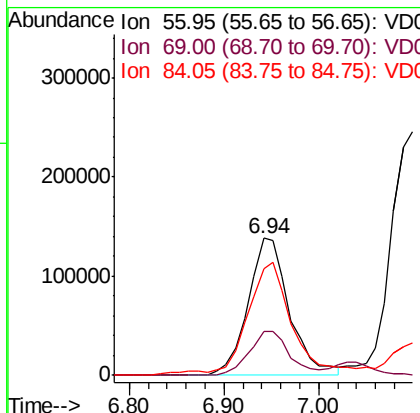
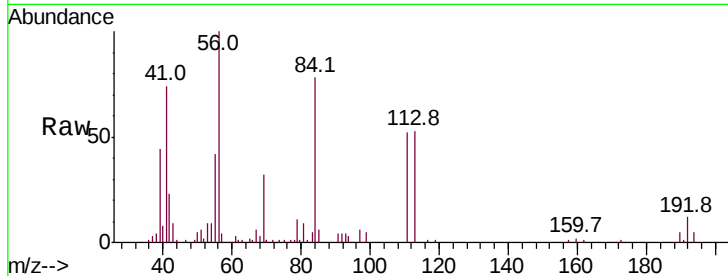
#31
Cyclohexane
Concen: 45.769 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.9	25.3	37.9
84	77.9	64.2	96.4

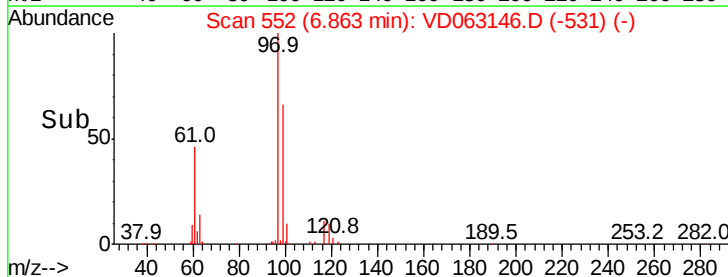
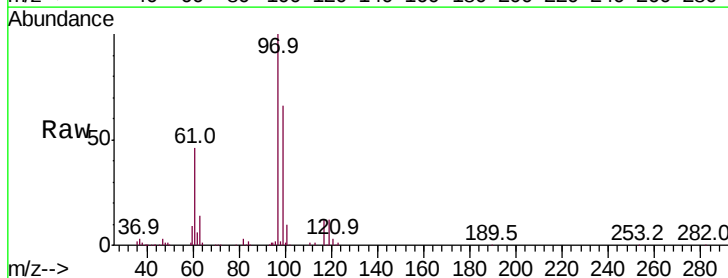
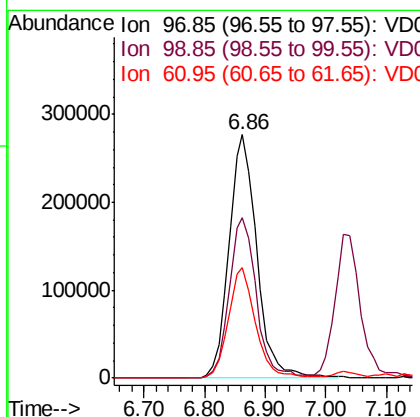
Manual Integrations
APPROVED

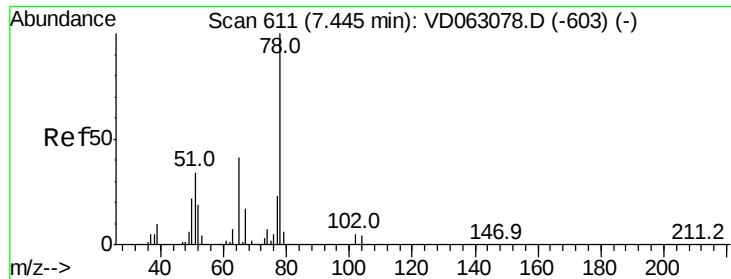
MMDadoda
7/22/2019 10:42:53 AM



#32
1,1,1-Trichloroethane
Concen: 50.446 ug/l
RT: 6.86 min Scan# 552
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.9	79.3
61	45.5	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 48.181 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

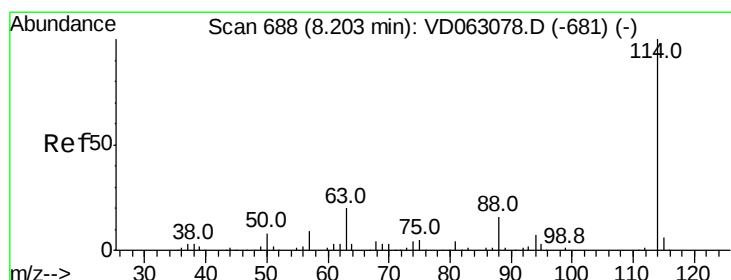
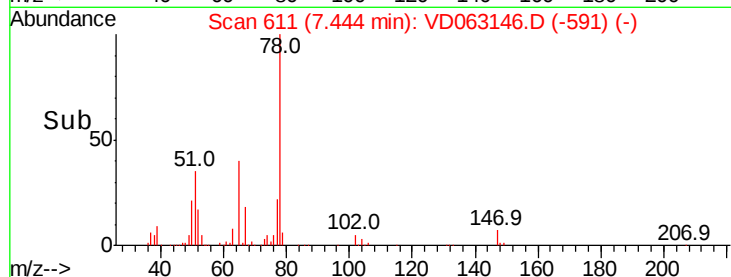
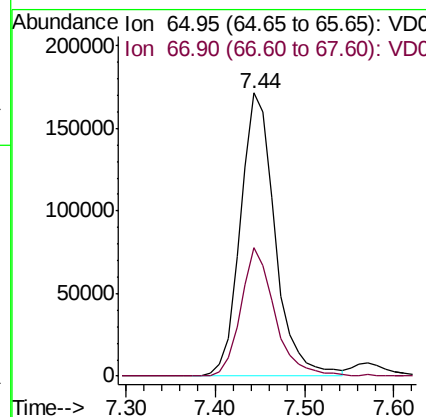
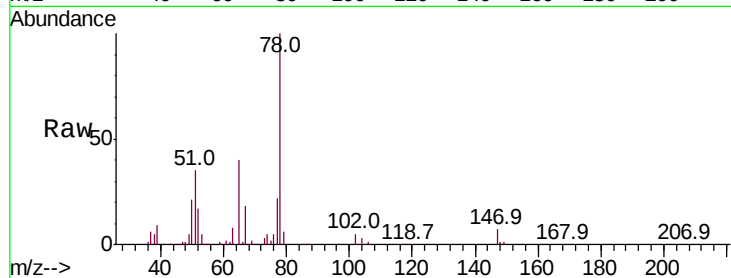
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 65 Resp: 463913

Ion	Ratio	Lower	Upper
65	100		
67	45.5	0.0	86.0

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

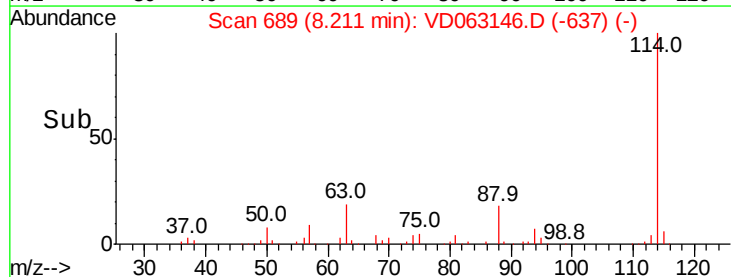
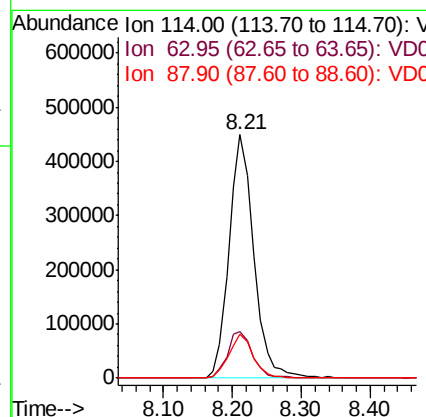
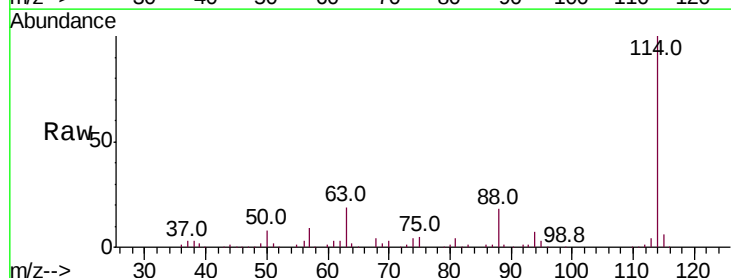
Delta R.T. 0.01 min

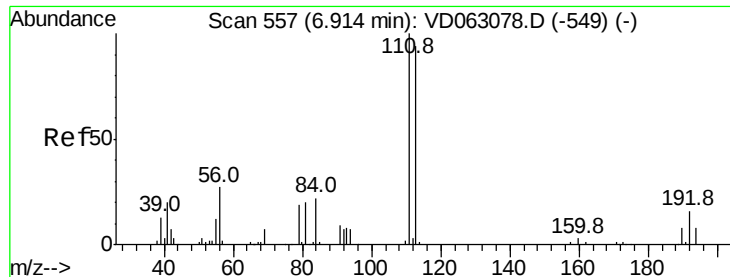
Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion: 114 Resp: 1116025

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.6
88	18.0	0.0	32.6





#35

Dibromofluoromethane

Concen: 46.896 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

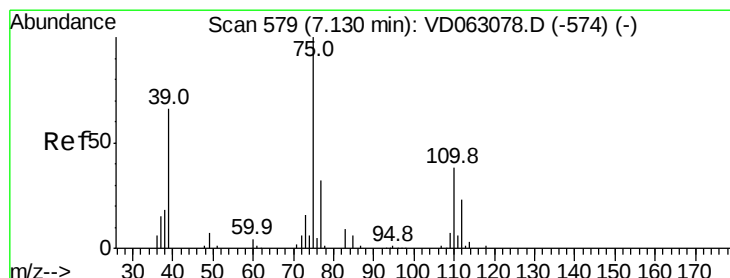
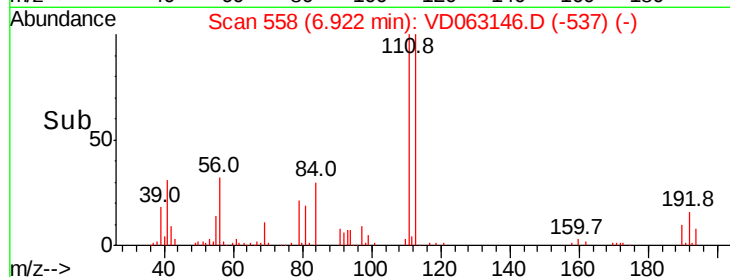
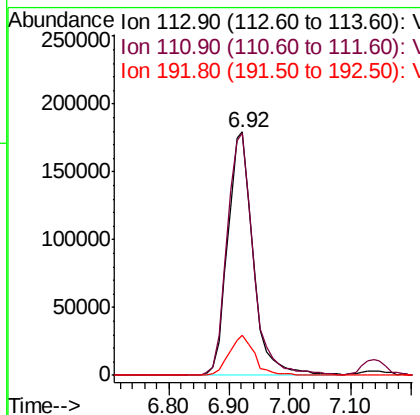
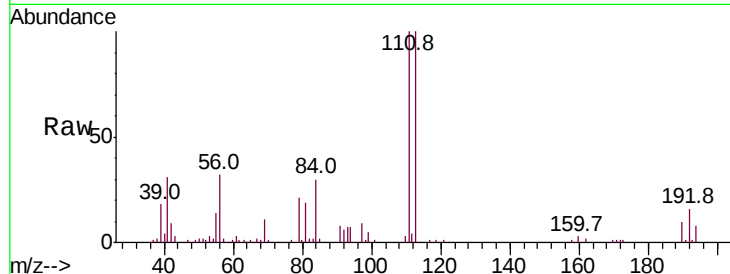
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	521288
Ion Ratio	Lower	Upper	
113	100		
111	99.8	84.8	127.2
192	16.2	13.4	20.0

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#36

1,1-Dichloropropene

Concen: 45.852 ug/l

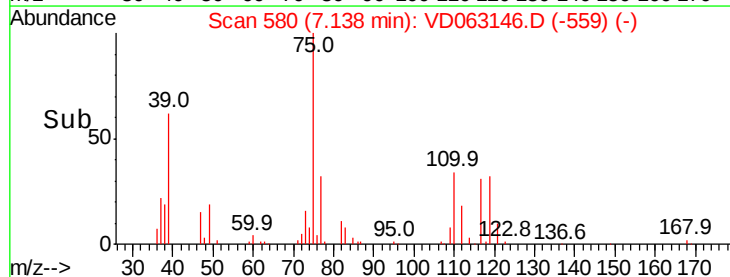
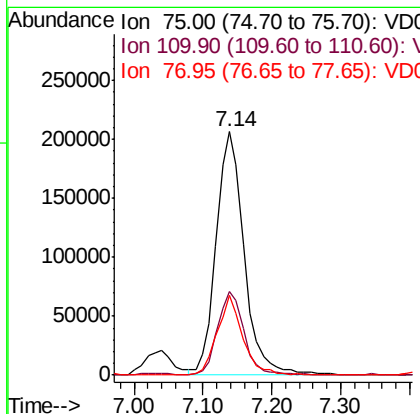
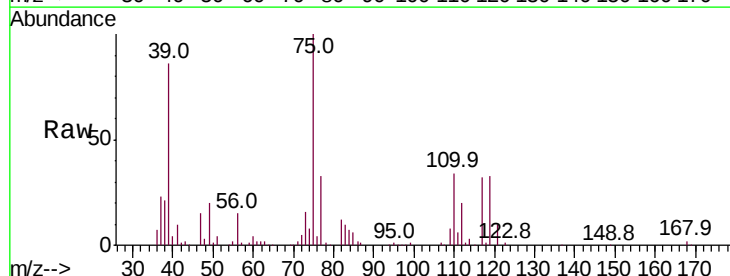
RT: 7.14 min Scan# 580

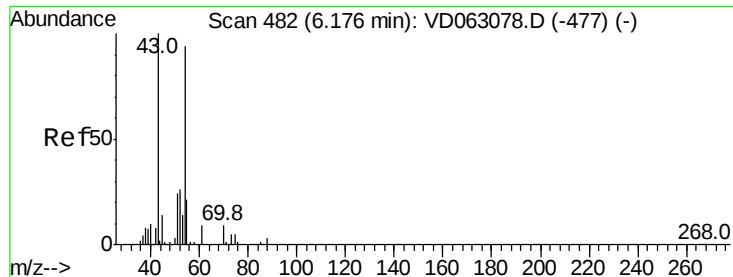
Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	75	Resp:	575517
Ion Ratio	Lower	Upper	
75	100		
110	34.2	18.9	56.5
77	32.6	25.2	37.8





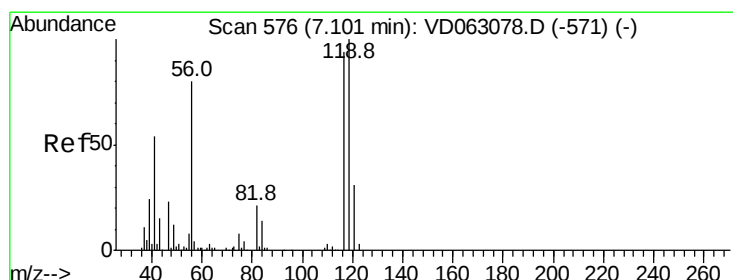
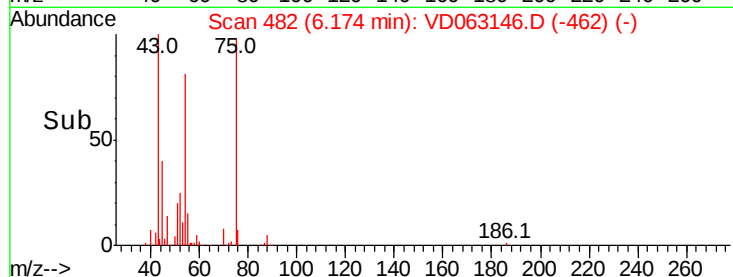
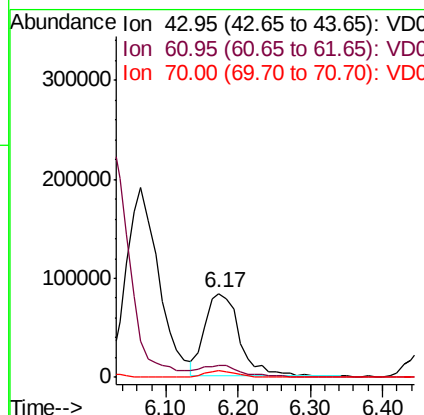
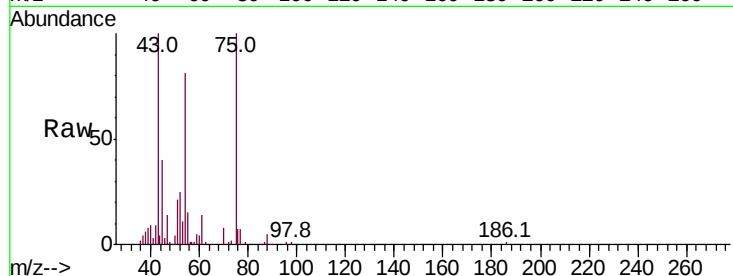
#37
Ethyl Acetate
Concen: 51.686 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.6	16.0
70	8.5	6.6	9.8

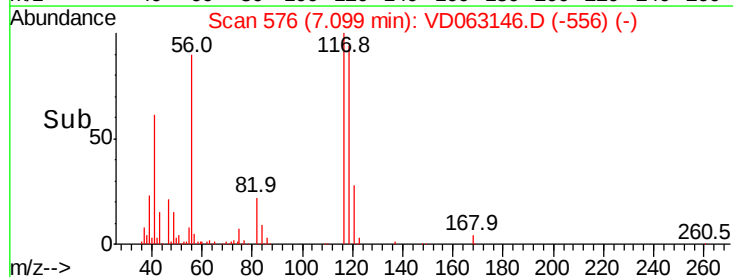
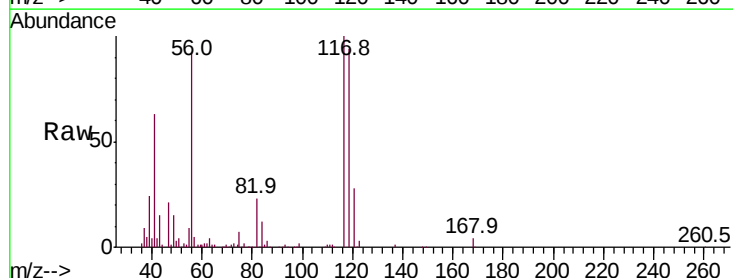
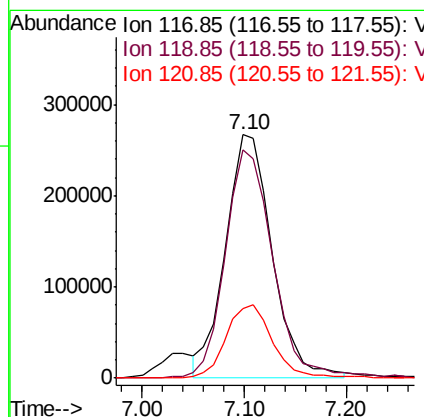
Manual Integrations
APPROVED

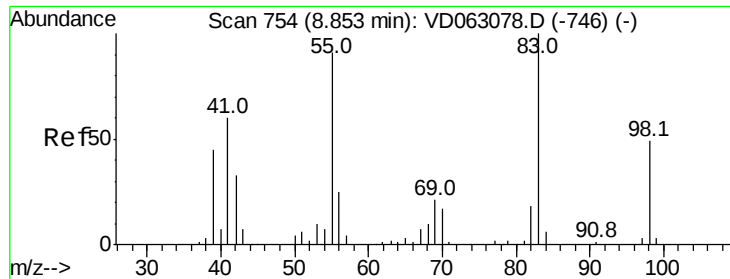
MMDadoda
7/22/2019 10:42:53 AM



#38
Carbon Tetrachloride
Concen: 44.683 ug/l m
RT: 7.10 min Scan# 576
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	80.0	120.0
121	28.3	25.0	37.4





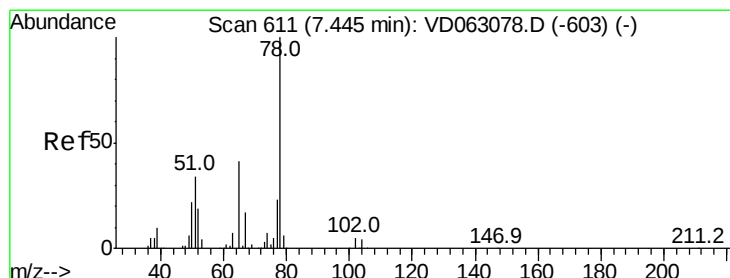
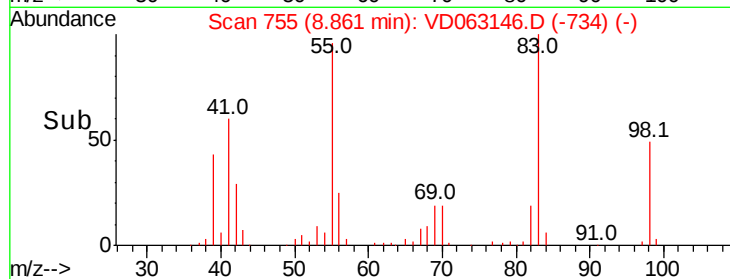
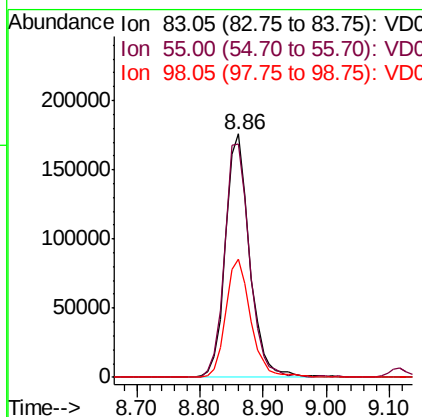
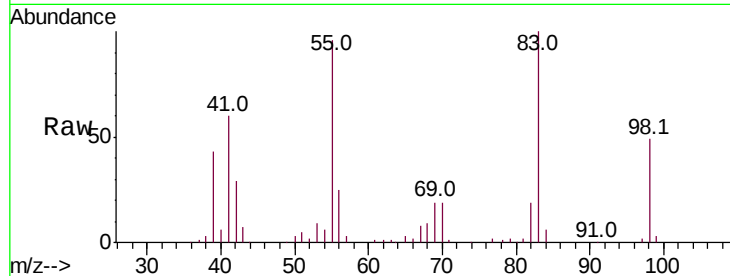
#39
Methvlcvclohexane
Concen: 43.014 ug/l
RT: 8.86 min Scan# 755
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	95.6	73.0	109.4
98	48.6	39.4	59.0

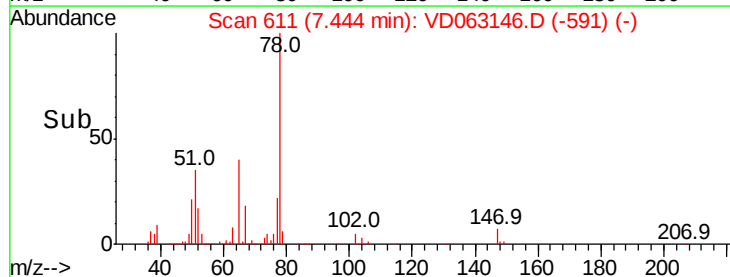
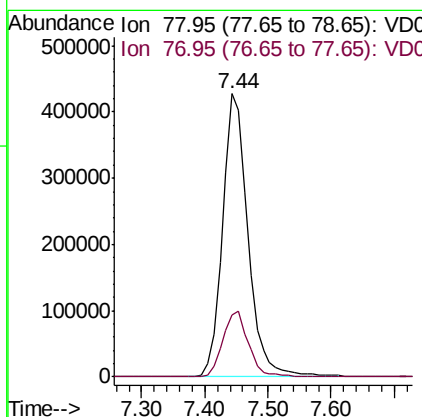
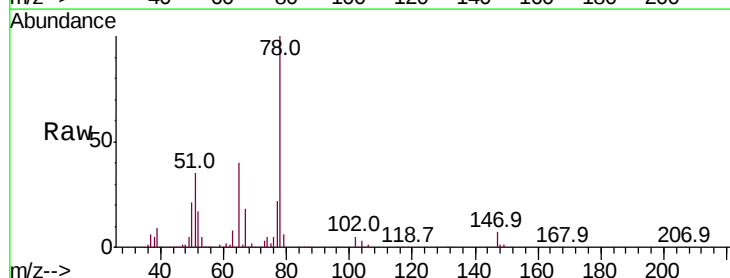
Manual Integrations
APPROVED

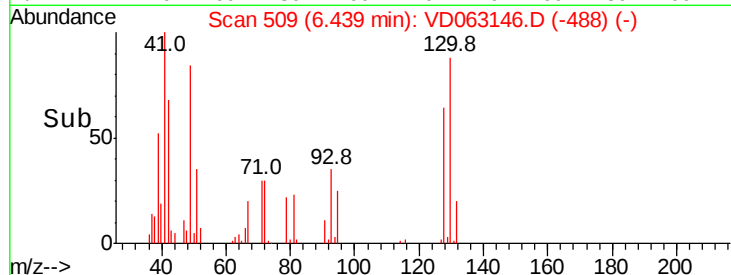
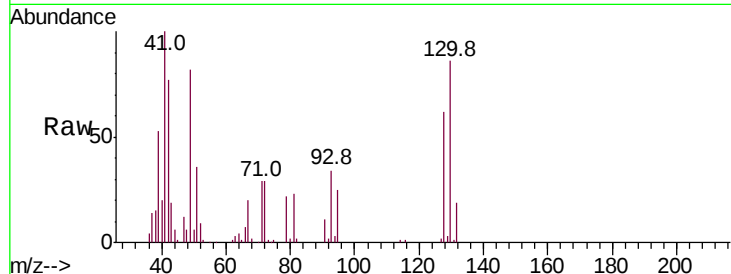
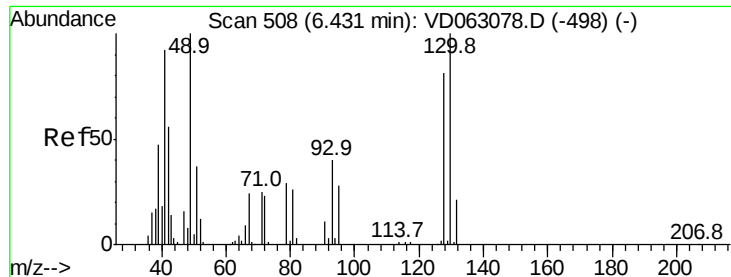
MMDadoda
7/22/2019 10:42:53 AM



#40
Benzene
Concen: 45.485 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.1	27.1





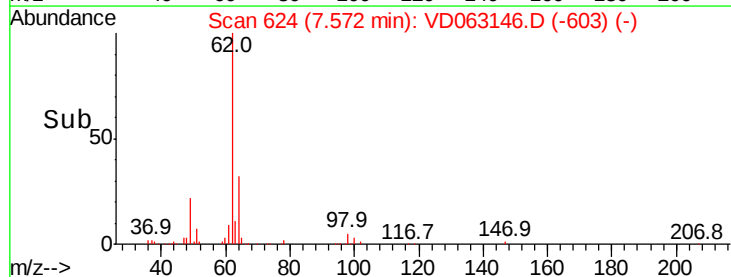
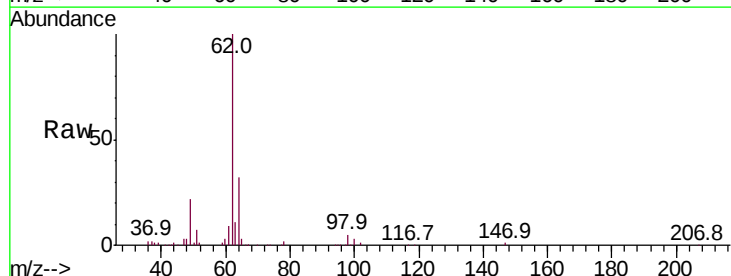
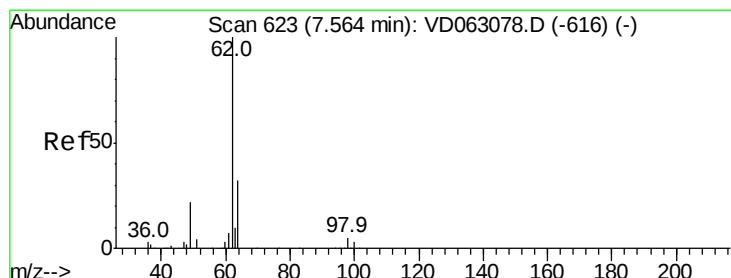
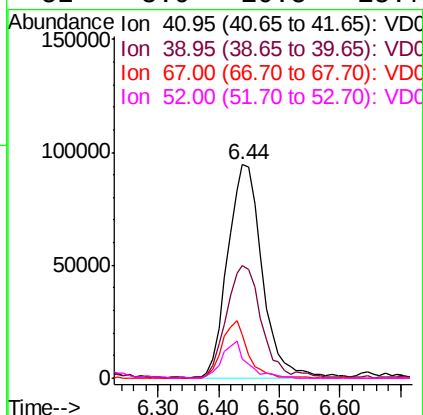
#41
Methacrylonitrile
Concen: 51.692 ug/l
RT: 6.44 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.5	41.0	61.6
67	20.4	21.3	31.9#
52	8.9	10.5	15.7#

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

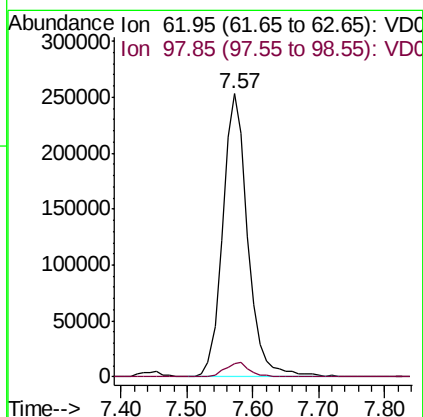
Manual Integrations
APPROVED

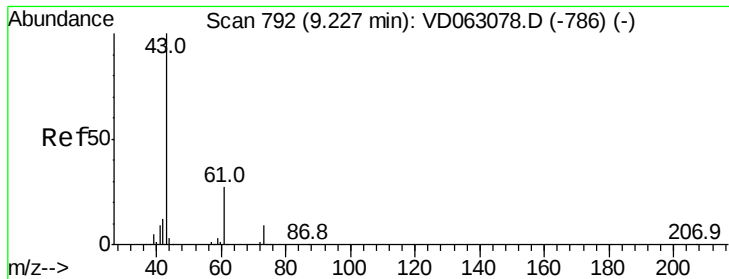
MMDadoda
7/22/2019 10:42:53 AM



#42
1,2-Dichloroethane
Concen: 48.065 ug/l
RT: 7.57 min Scan# 624
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	9.6





#43

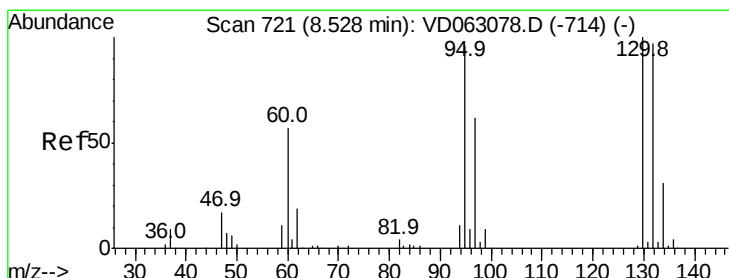
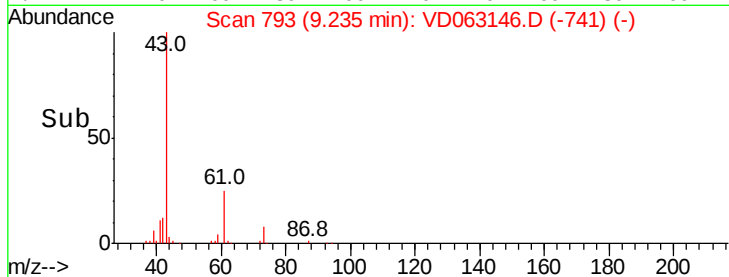
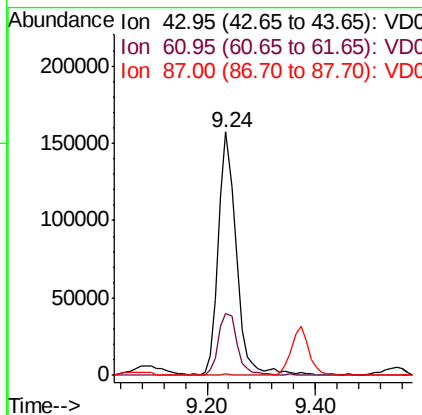
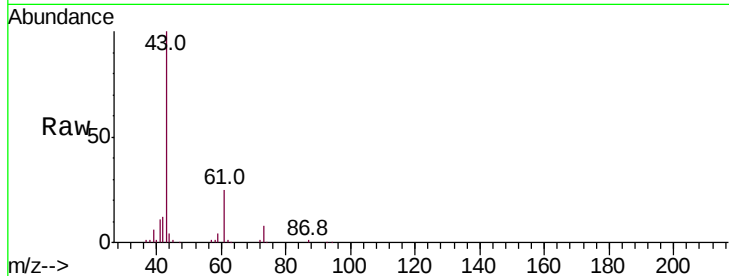
Isopropyl Acetate
 Concen: 46.399 ug/l
 RT: 9.24 min Scan# 793
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.4	21.7	32.5
87	0.5	0.2	0.4

Manual Integrations
 APPROVED

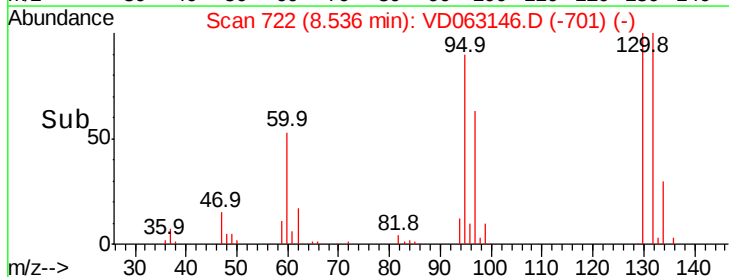
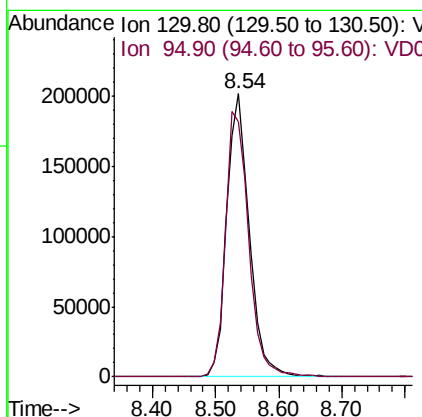
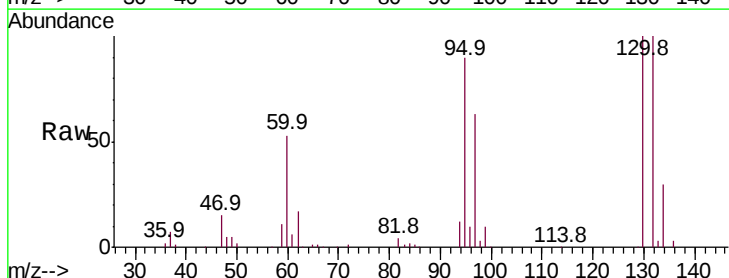
MMDadoda
 7/22/2019 10:42:53 AM

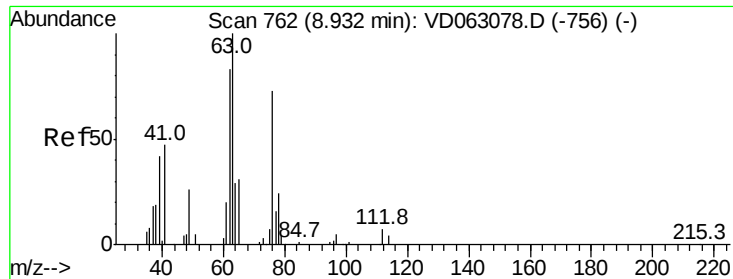


#44

Trichloroethene
 Concen: 49.119 ug/l
 RT: 8.54 min Scan# 722
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	191.4





#45

1,2-Dichloropropane

Concen: 49.253 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 322817

Ion Ratio Lower Upper

63 100

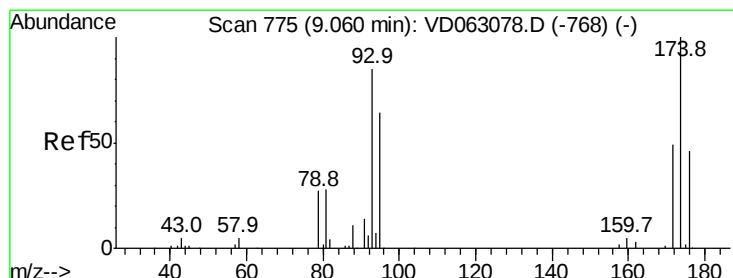
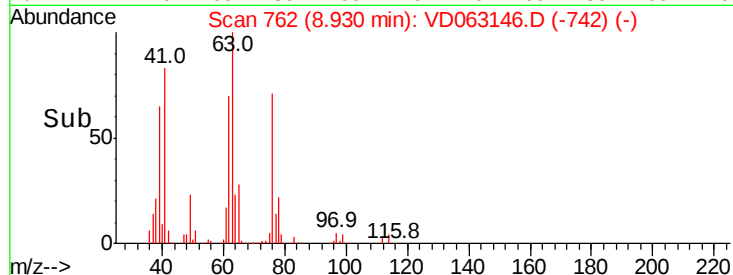
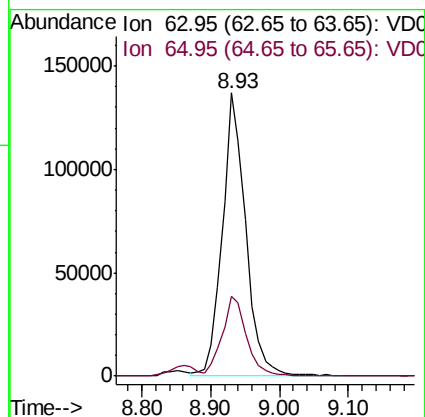
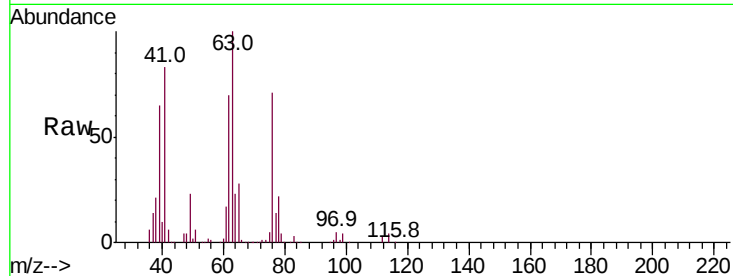
65 28.3 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#46

Dibromomethane

Concen: 47.068 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

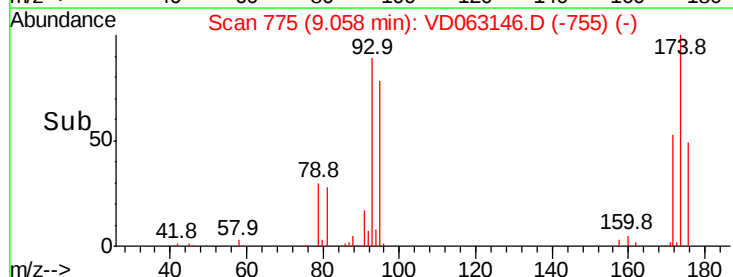
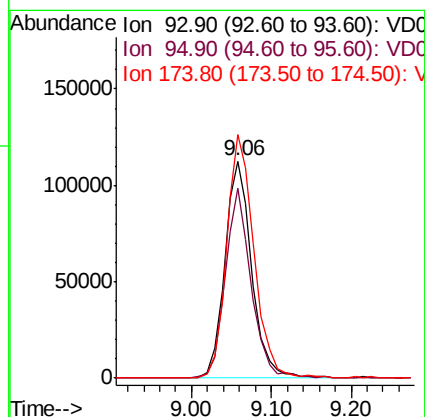
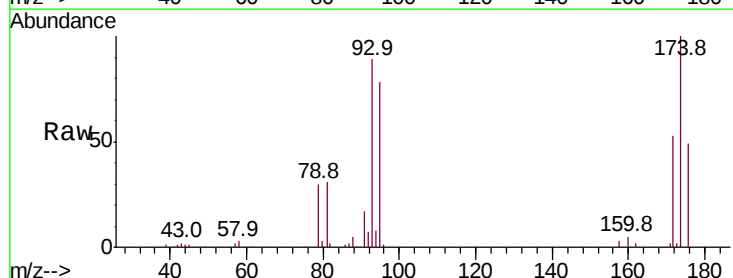
Tgt Ion: 93 Resp: 265100

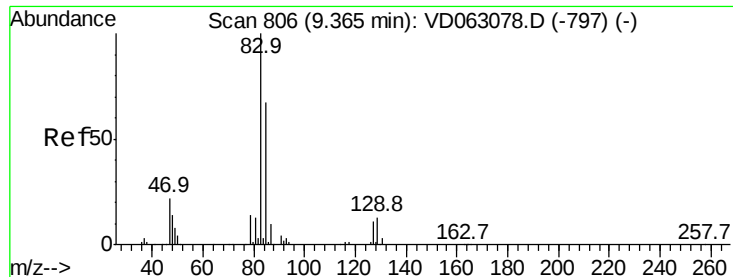
Ion Ratio Lower Upper

93 100

95 87.2 59.7 89.5

174 112.2 93.9 140.9





#47

Bromodichloromethane

Concen: 48.446 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

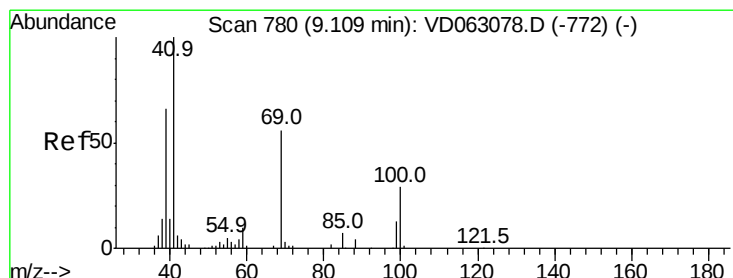
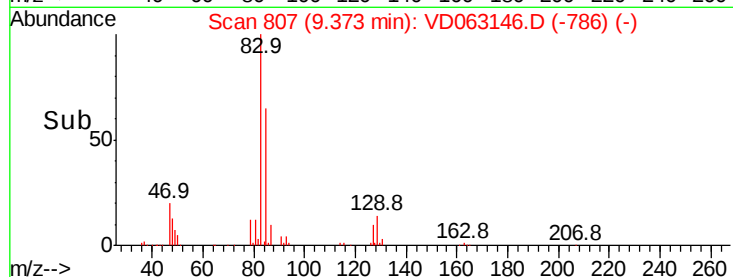
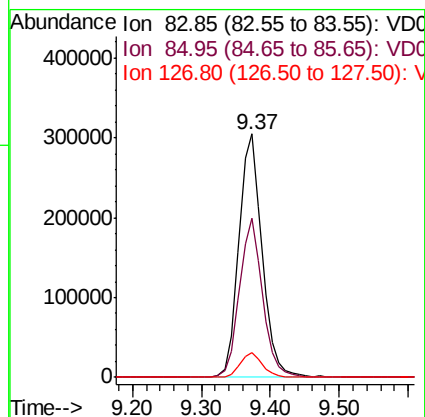
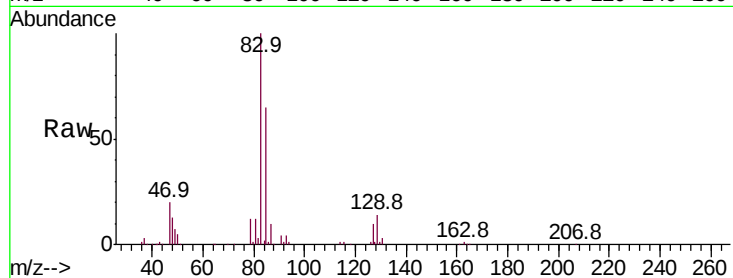
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	712039
Ion Ratio	Lower	Upper	
83	100		
85	65.2	53.7	80.5
127	10.0	9.0	13.6

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#48

Methyl methacrylate

Concen: 51.282 ug/l

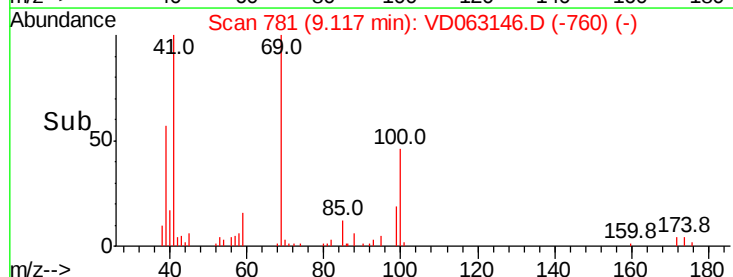
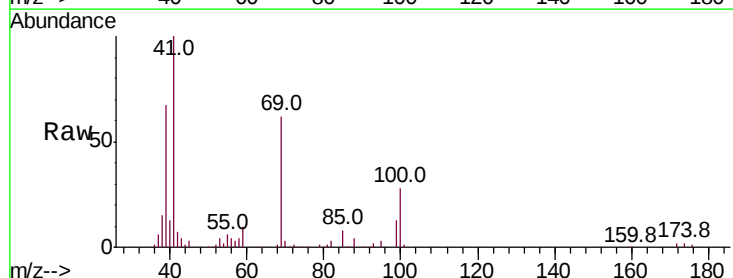
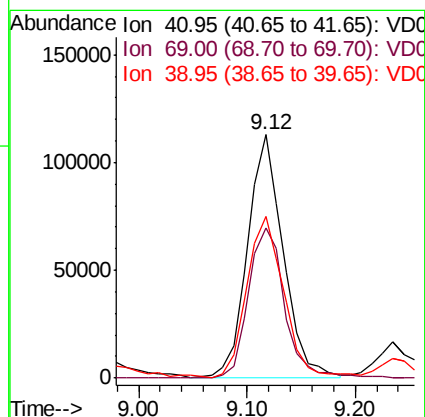
RT: 9.12 min Scan# 781

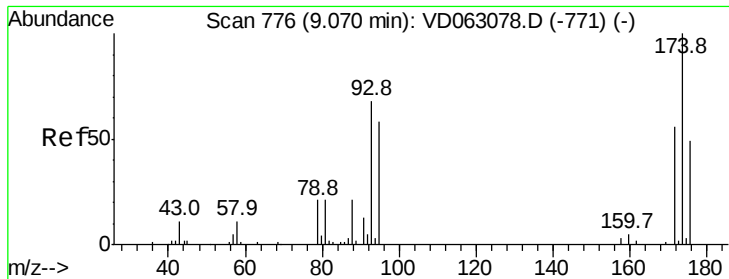
Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	41	Resp:	259302
Ion Ratio	Lower	Upper	
41	100		
69	61.8	44.3	66.5
39	66.6	52.6	78.8





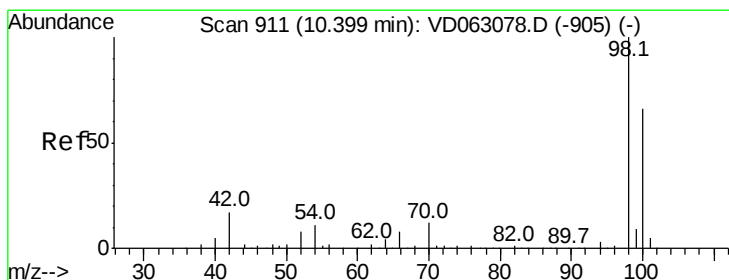
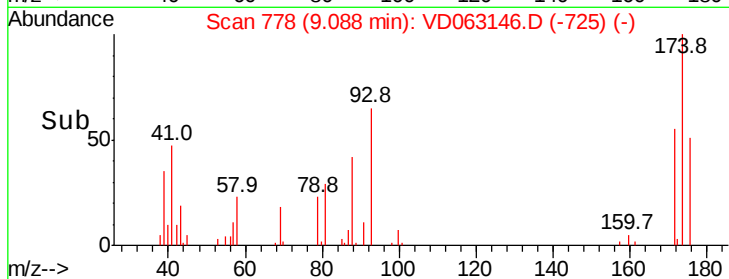
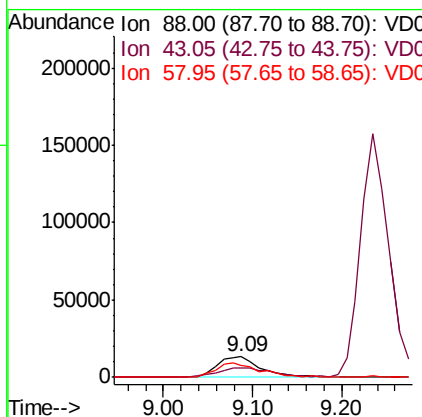
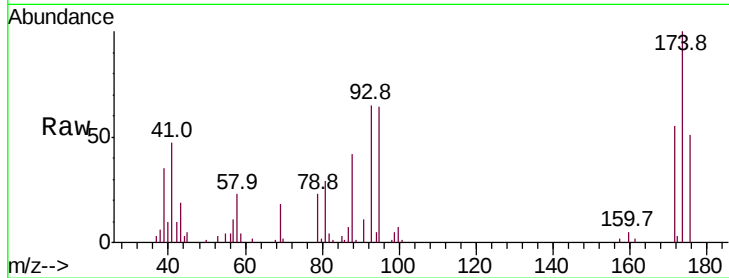
#49
 1,4-Dioxane
 Concen: 1013.135 ug/l
 RT: 9.09 min Scan# 778
 Delta R.T. 0.02 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	44.1	40.2	60.4
58	55.6	41.6	62.4

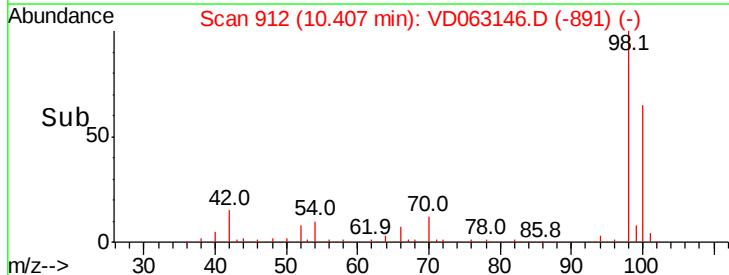
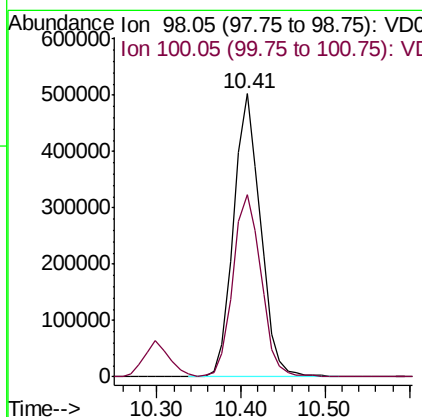
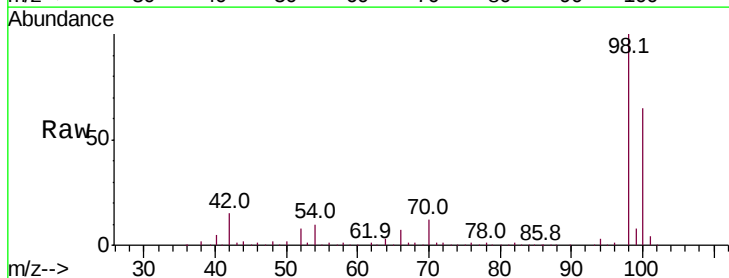
Manual Integrations
 APPROVED

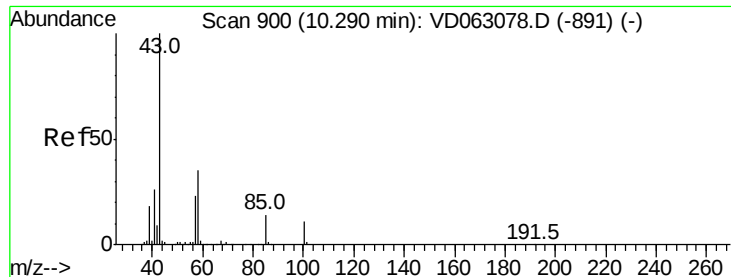
MMDadoda
 7/22/2019 10:42:53 AM



#50
 Toluene-d8
 Concen: 46.864 ug/l
 RT: 10.41 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	53.5	80.3





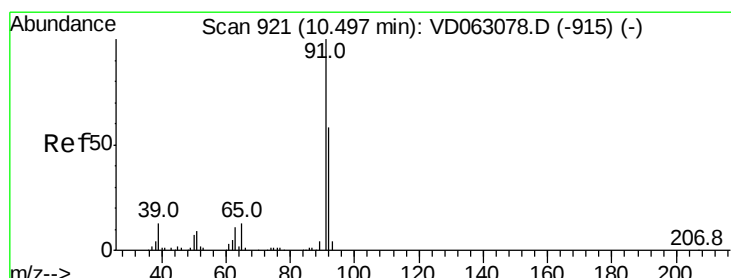
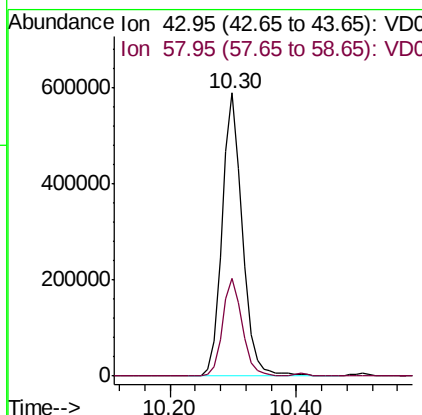
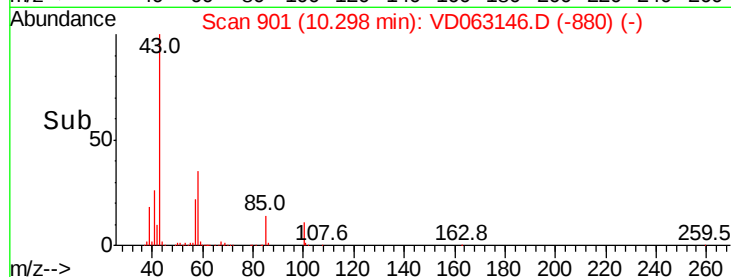
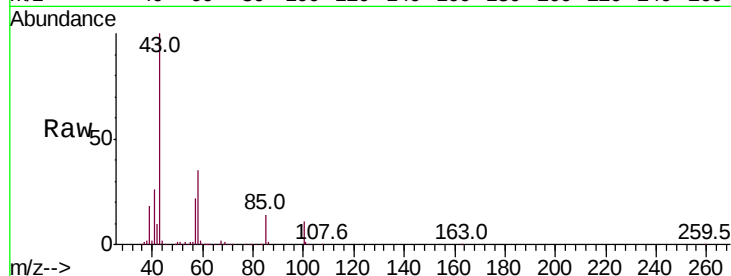
#51
4-Methyl-2-Pentanone
Concen: 258.931 ug/l
RT: 10.30 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1322328
Ion Ratio Lower Upper
43 100
58 34.5 27.8 41.6

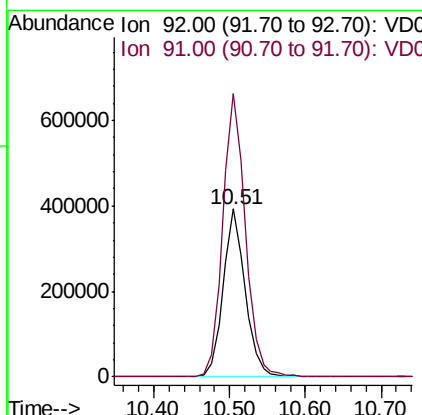
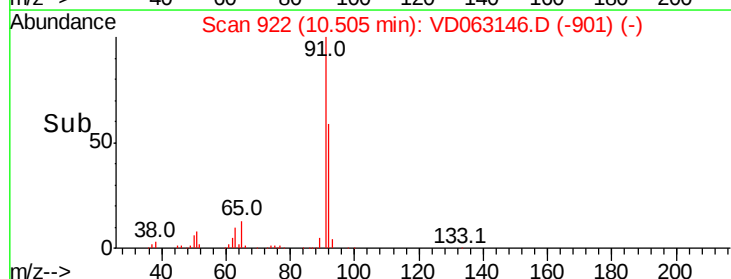
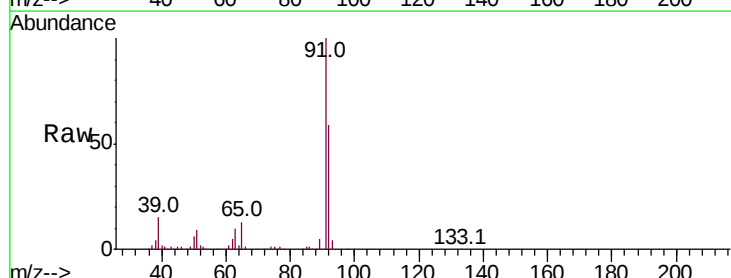
Manual Integrations
APPROVED

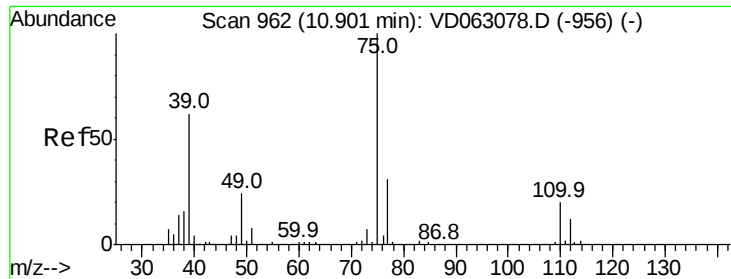
MMDadoda
7/22/2019 10:42:53 AM



#52
Toluene
Concen: 45.152 ug/l
RT: 10.51 min Scan# 922
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 92 Resp: 792627
Ion Ratio Lower Upper
92 100
91 168.9 137.9 206.9





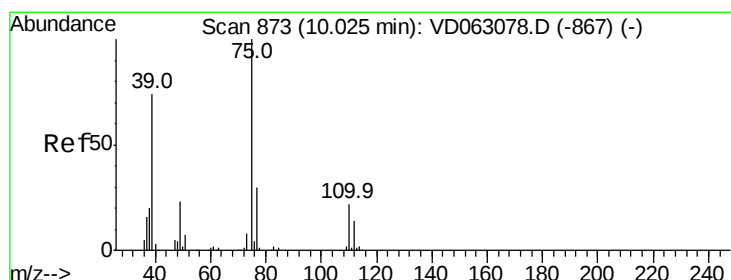
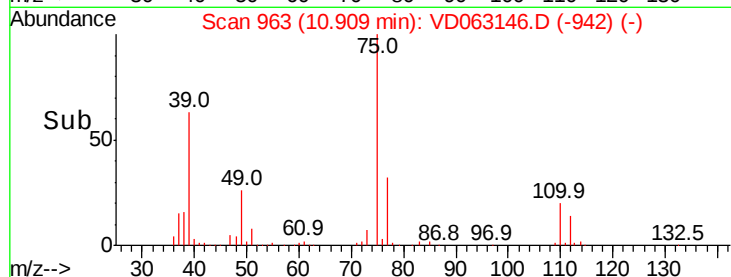
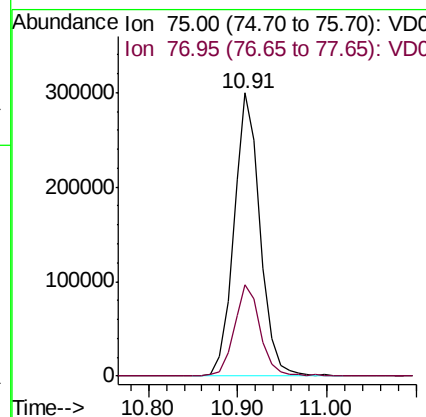
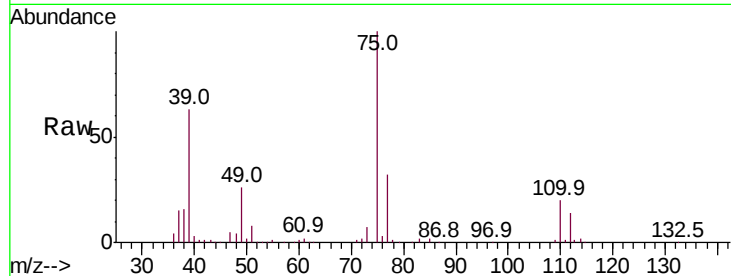
#53
t-1,3-Dichloropropene
Concen: 48.715 ug/l
RT: 10.91 min Scan# 963
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 613421
Ion Ratio Lower Upper
75 100
77 32.2 24.9 37.3

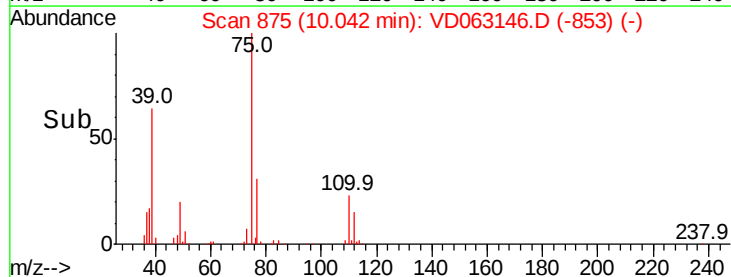
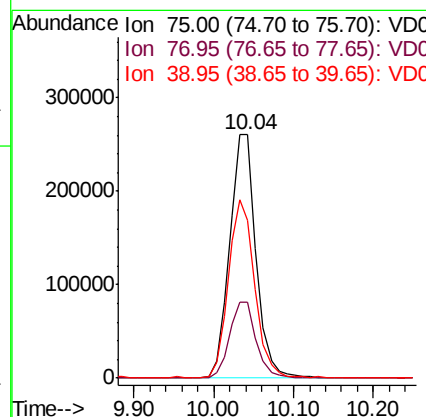
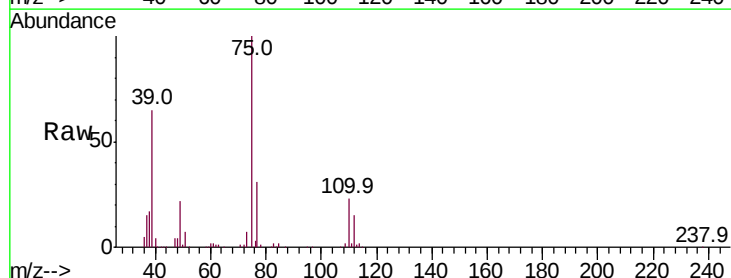
Manual Integrations
APPROVED

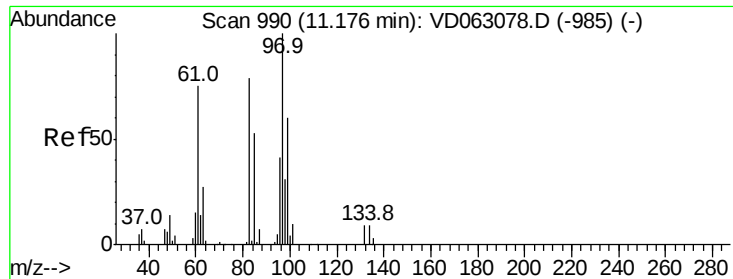
MMDadoda
7/22/2019 10:42:53 AM



#54
cis-1,3-Dichloropropene
Concen: 46.688 ug/l
RT: 10.04 min Scan# 875
Delta R.T. 0.02 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 75 Resp: 607872
Ion Ratio Lower Upper
75 100
77 31.1 23.9 35.9
39 64.8 59.4 89.0





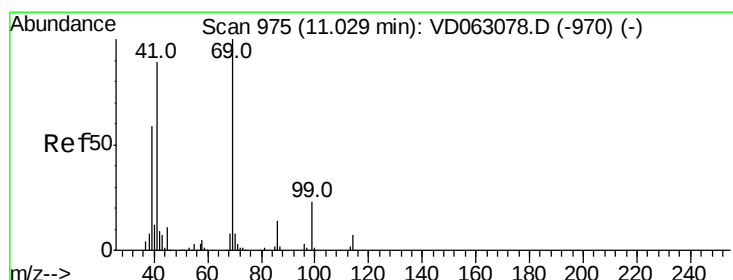
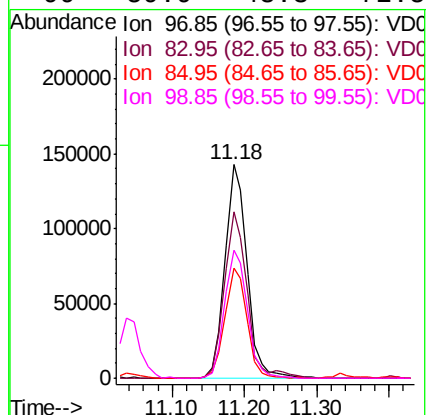
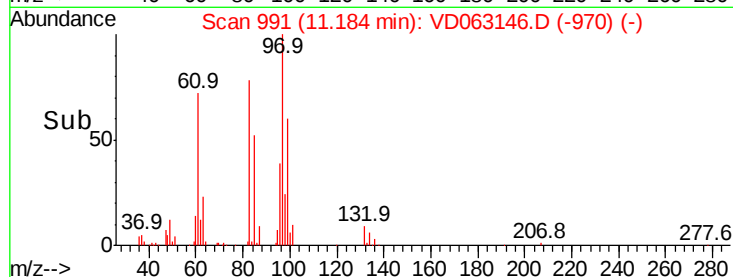
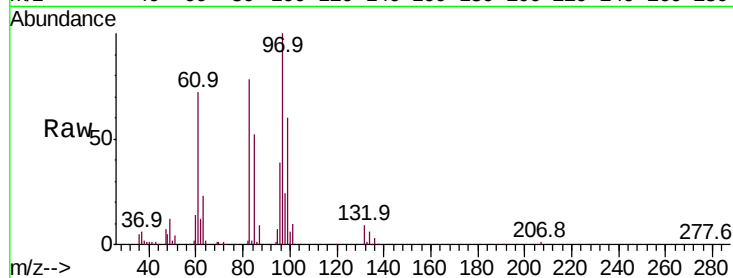
#55
1,1,2-Trichloroethane
Concen: 50.074 ug/l
RT: 11.18 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	78.0	63.2	94.8
85	51.7	42.0	63.0
99	59.9	48.3	72.5

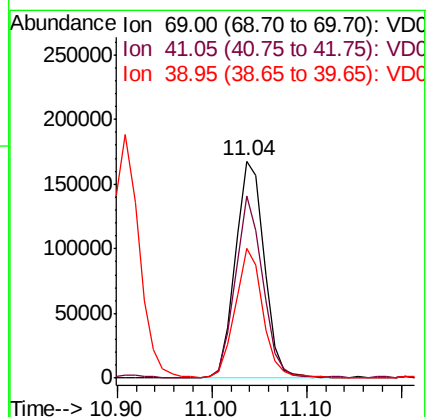
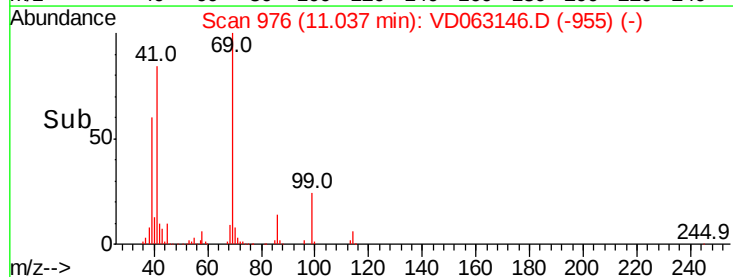
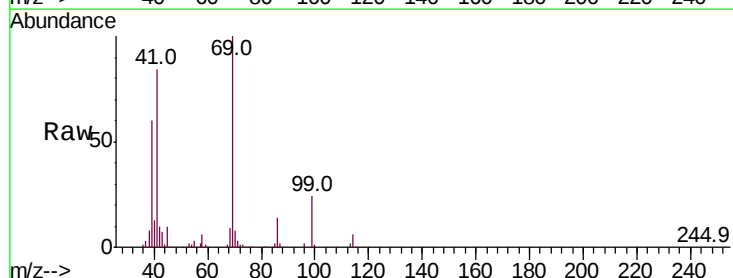
Manual Integrations
APPROVED

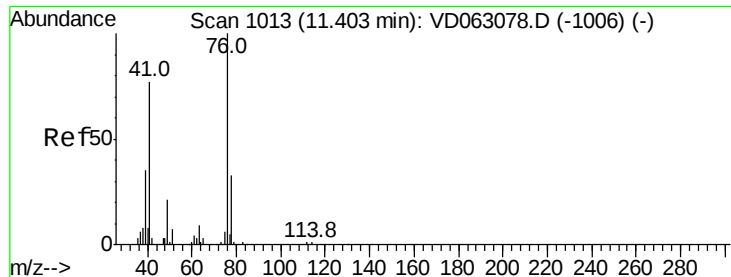
MMDadoda
7/22/2019 10:42:53 AM



#56
Ethyl methacrylate
Concen: 52.331 ug/l
RT: 11.04 min Scan# 976
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
69	100		
41	84.0	71.0	106.4
39	59.8	47.7	71.5





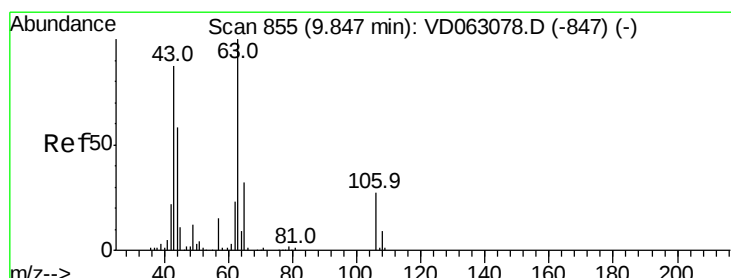
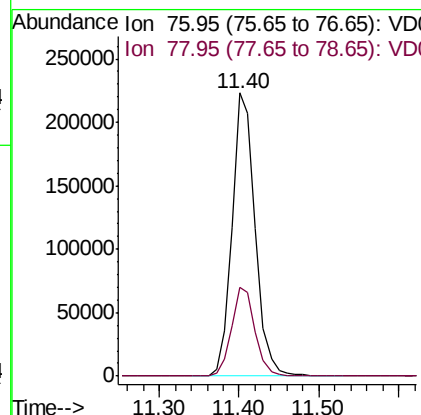
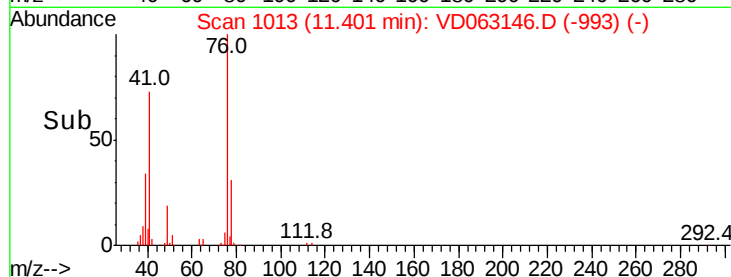
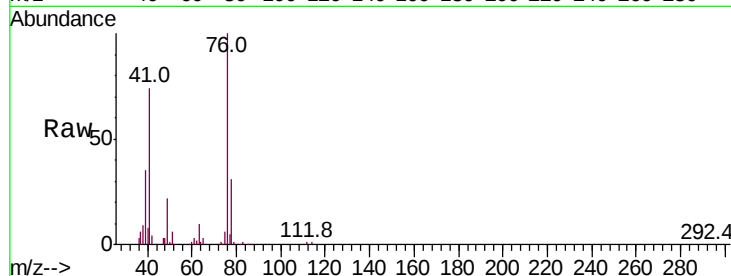
#57
 1,3-Dichloropropane
 Concen: 49.282 ug/l
 RT: 11.40 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 454935
 Ion Ratio Lower Upper
 76 100
 78 31.2 26.8 40.2

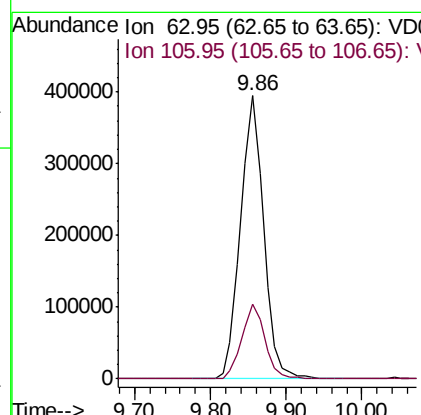
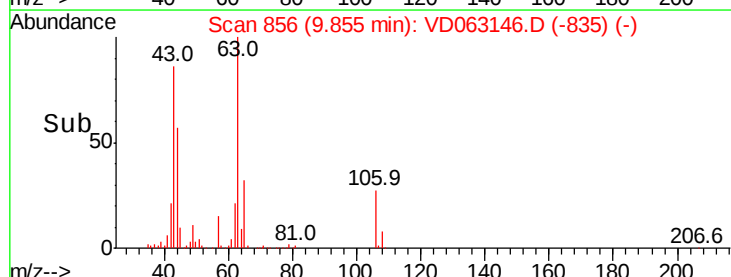
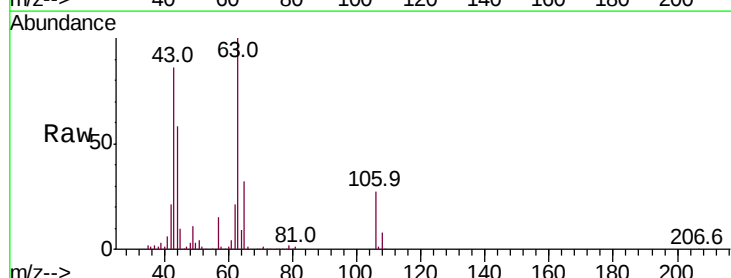
Manual Integrations
 APPROVED

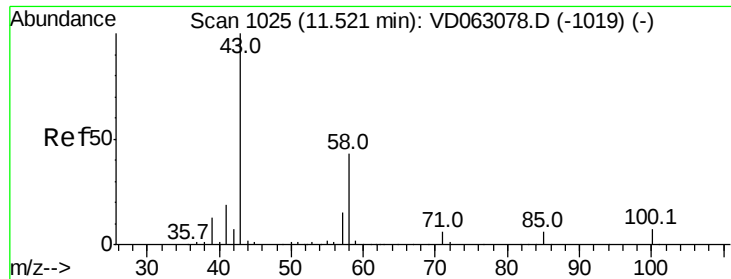
MMDadoda
 7/22/2019 10:42:53 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 221.105 ug/l
 RT: 9.86 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion: 63 Resp: 834482
 Ion Ratio Lower Upper
 63 100
 106 26.6 21.3 31.9





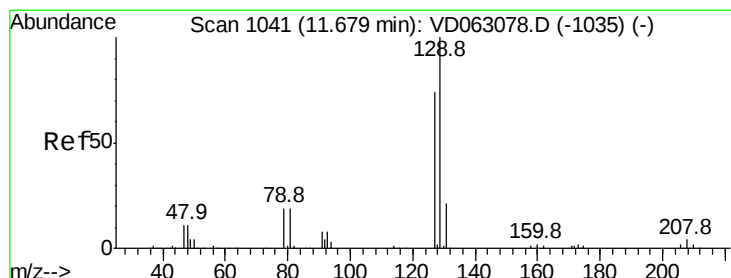
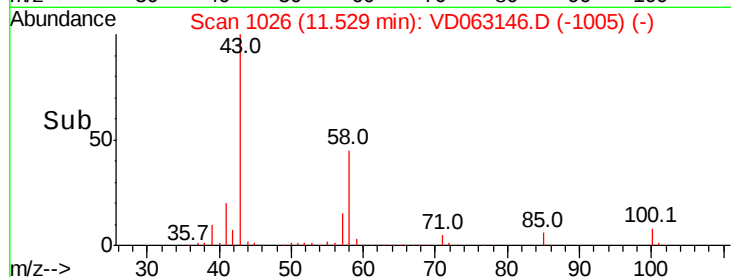
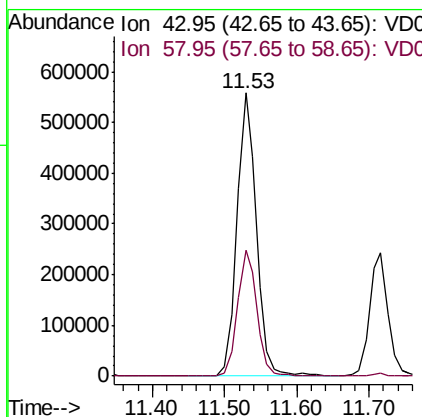
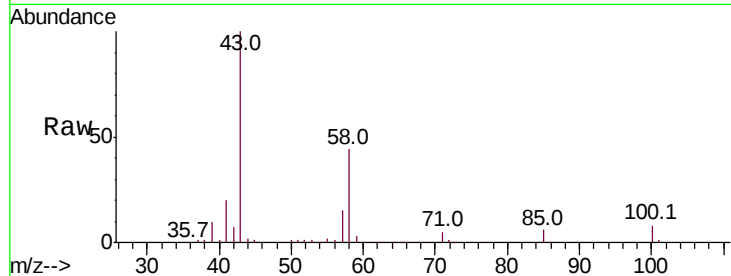
#59
2-Hexanone
Concen: 266.094 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1048003
Ion Ratio Lower Upper
43 100
58 44.5 21.7 65.1

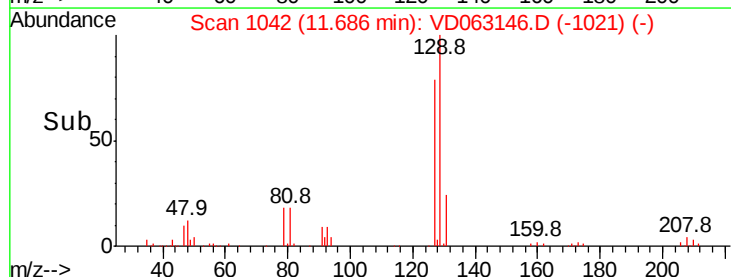
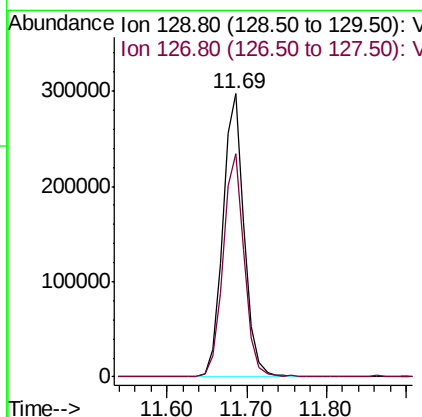
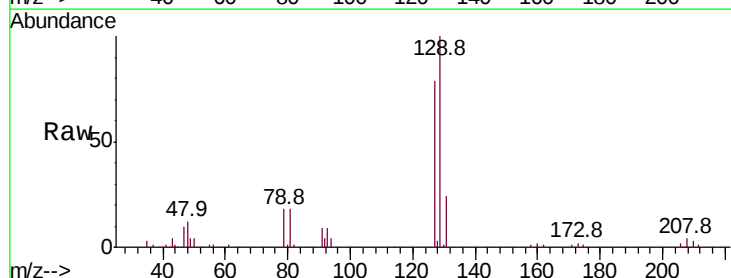
Manual Integrations
APPROVED

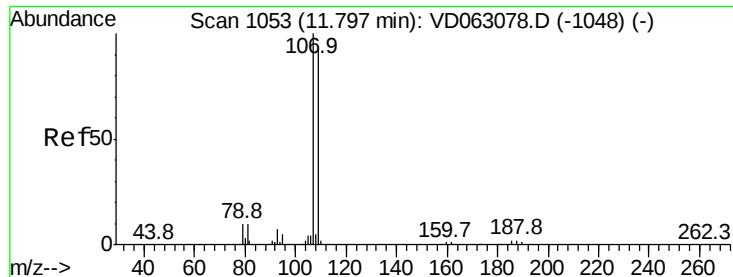
MMDadoda
7/22/2019 10:42:53 AM



#60
Dibromochloromethane
Concen: 48.045 ug/l
RT: 11.69 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion: 129 Resp: 558709
Ion Ratio Lower Upper
129 100
127 78.9 37.0 110.9





#61

1,2-Dibromoethane

Concen: 51.194 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 371752

Ion Ratio Lower Upper

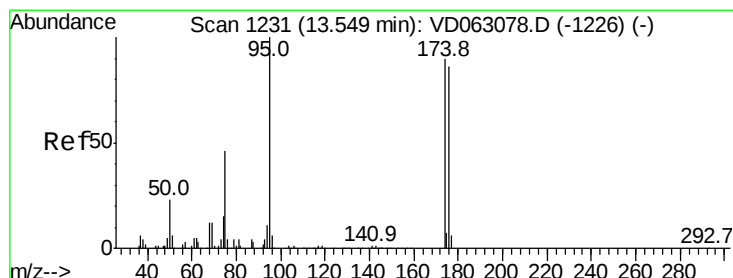
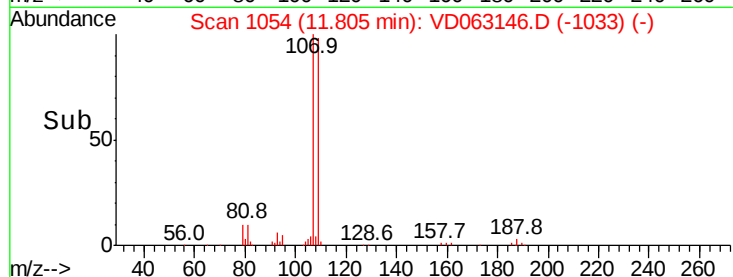
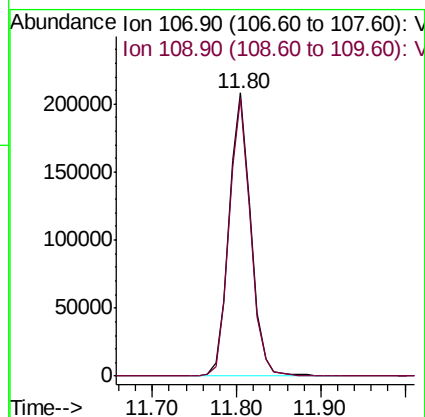
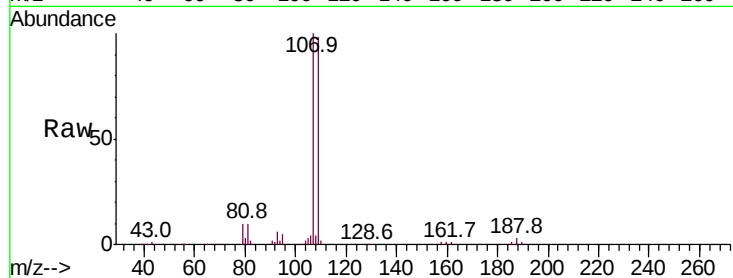
107 100

109 98.2 73.6 110.4

Manual Integrations
APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#62

4-Bromofluorobenzene

Concen: 46.973 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

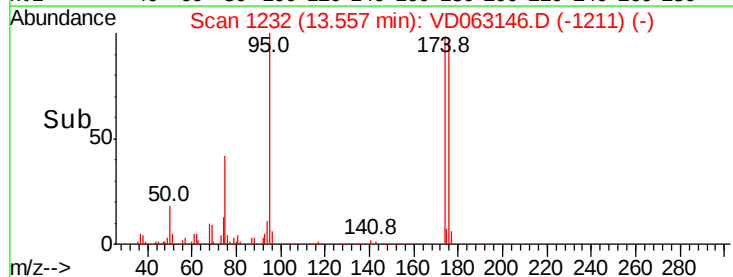
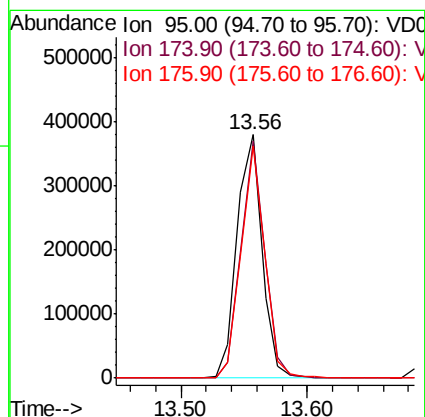
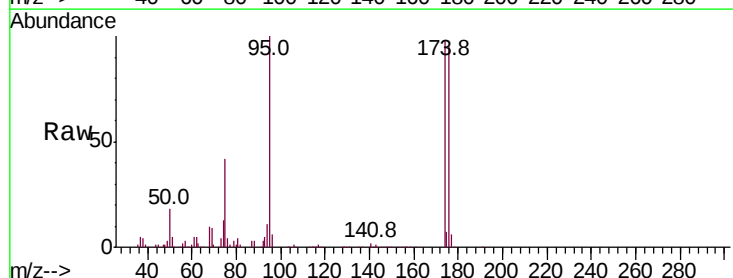
Tgt Ion: 95 Resp: 518876

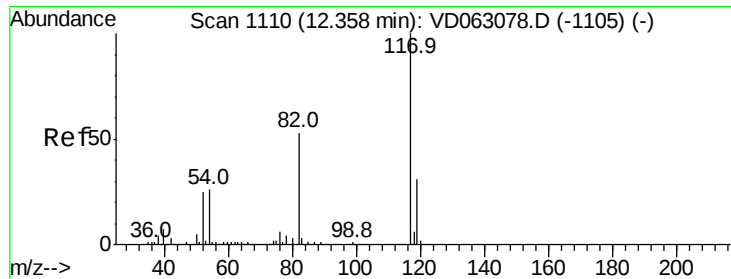
Ion Ratio Lower Upper

95 100

174 97.5 0.0 180.6

176 95.2 0.0 172.2





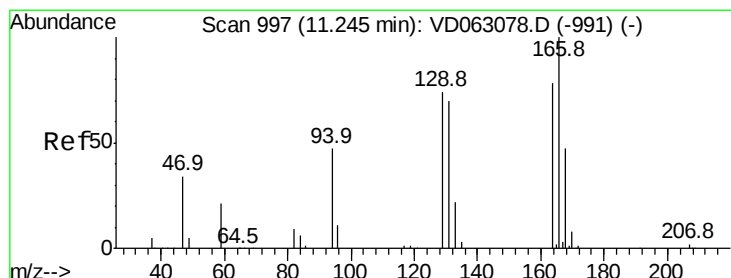
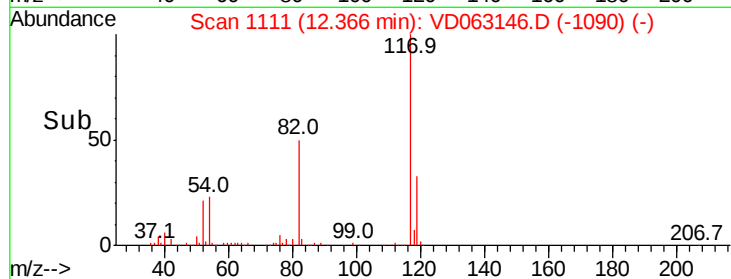
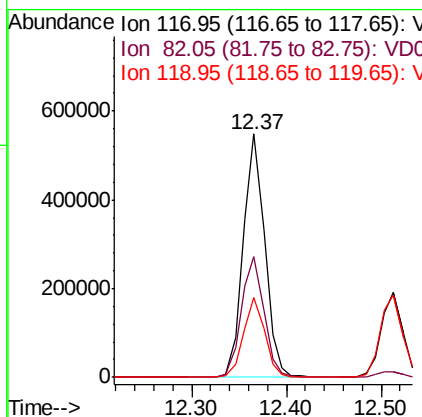
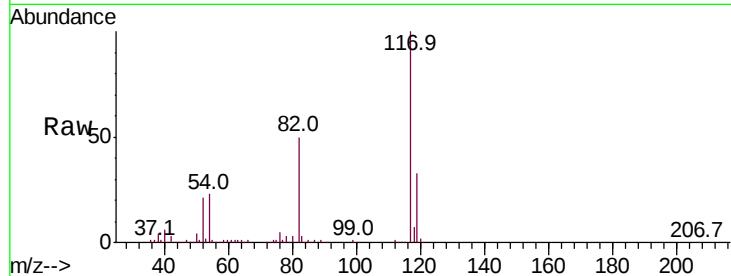
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	868904		
82	49.6	42.3	63.5	
119	32.9	25.2	37.8	

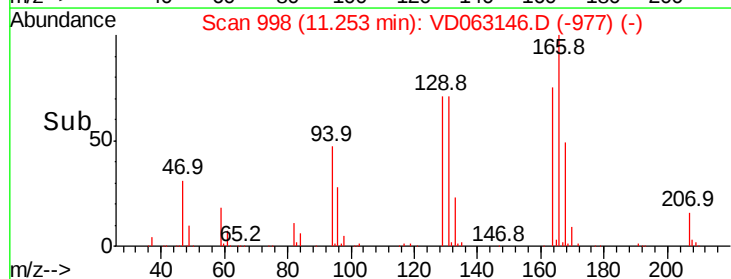
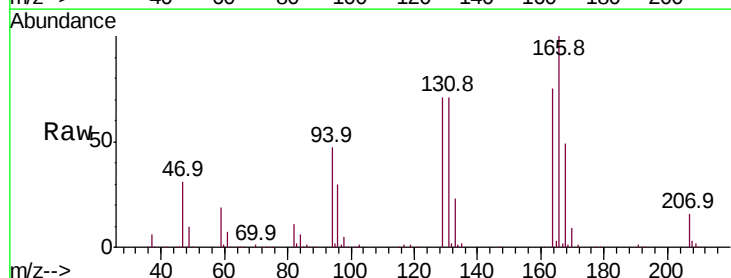
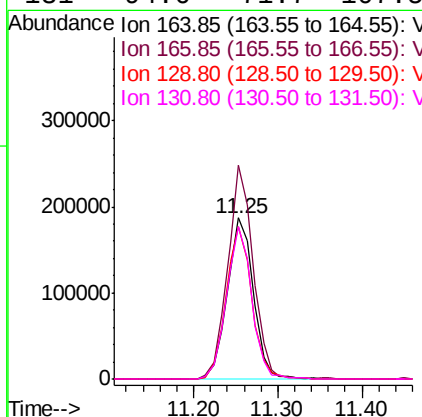
Manual Integrations
APPROVED

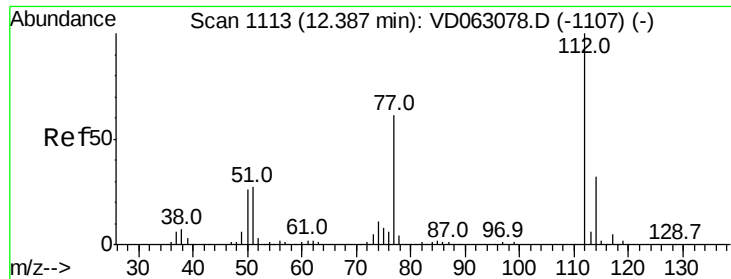
MMDadoda
7/22/2019 10:42:53 AM



#64
Tetrachloroethene
Concen: 47.456 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	400113		
166	132.6	102.8	154.2	
129	94.6	76.4	114.6	
131	94.6	71.7	107.5	





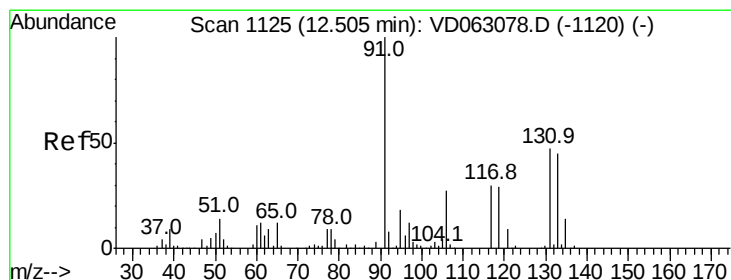
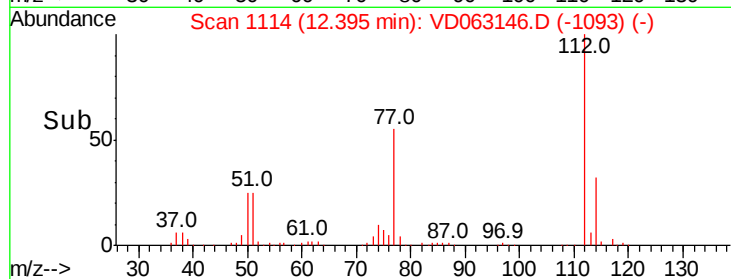
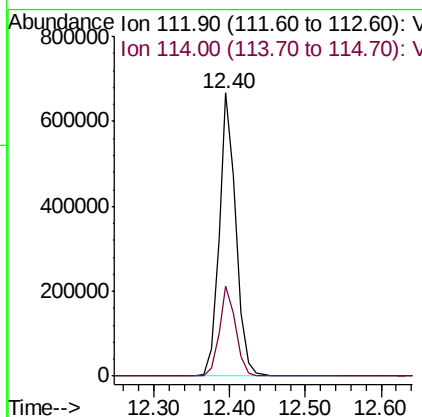
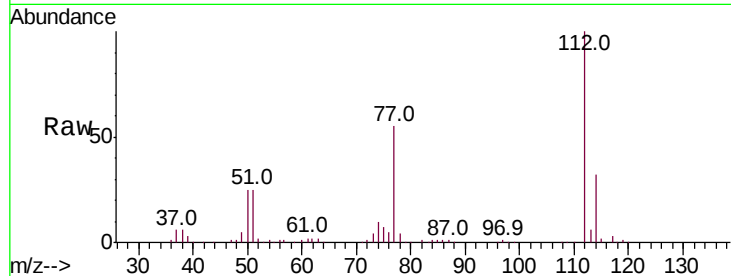
#65
Chlorobenzene
Concen: 50.238 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1026125
Ion Ratio Lower Upper
112 100
114 31.9 25.9 38.9

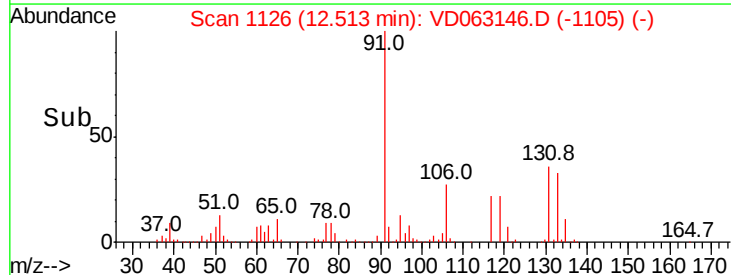
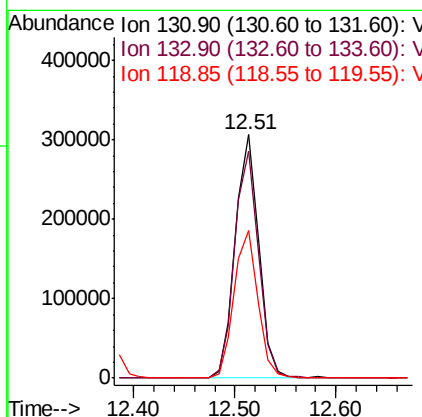
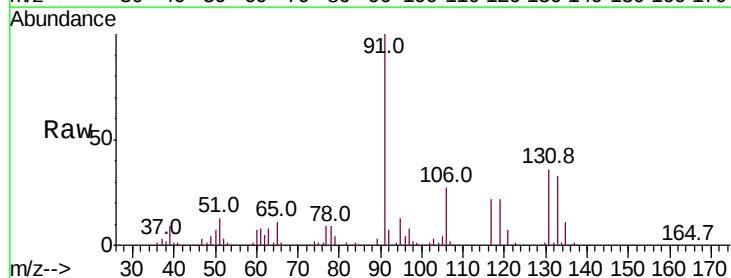
Manual Integrations
APPROVED

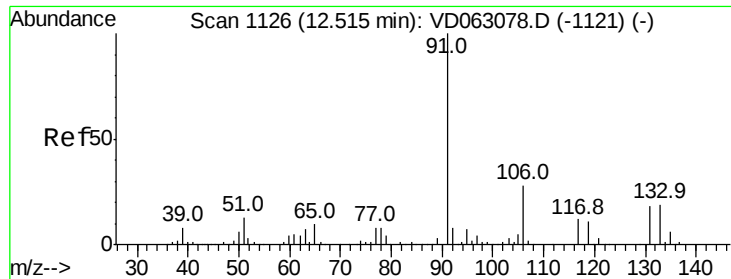
MMDadoda
7/22/2019 10:42:53 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.370 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion:131 Resp: 495934
Ion Ratio Lower Upper
131 100
133 93.0 48.5 145.6
119 60.7 30.8 92.3





#67

Ethyl Benzene

Concen: 49.330 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1750692

Ion Ratio Lower Upper

91 100

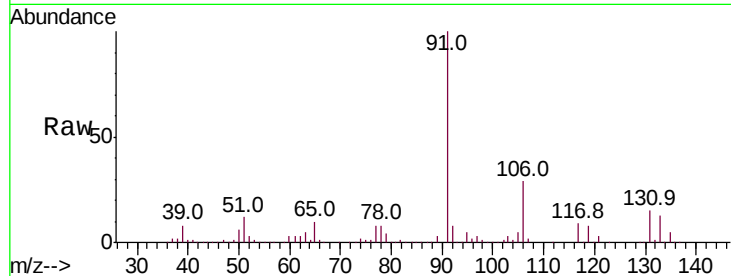
106 28.9 22.5 33.7

Manual Integrations

APPROVED

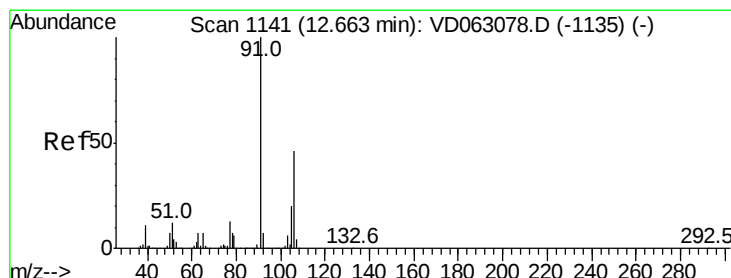
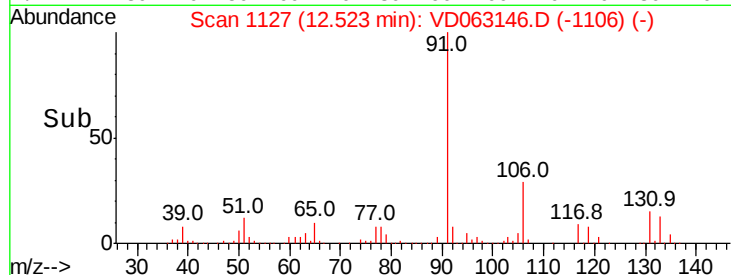
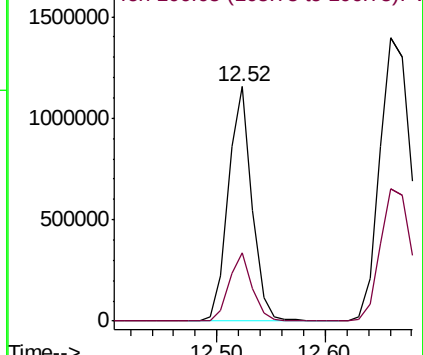
MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 101.801 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VD063146.D

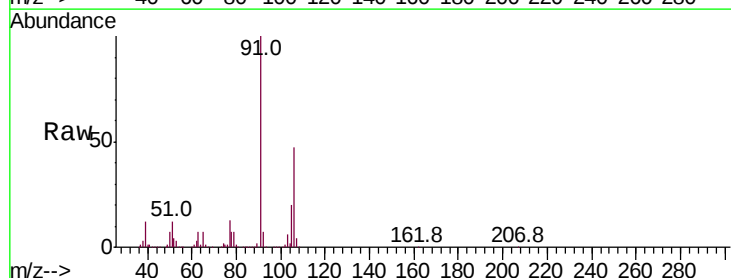
Acq: 19 Jul 2019 11:20

Tgt Ion:106 Resp: 1294026

Ion Ratio Lower Upper

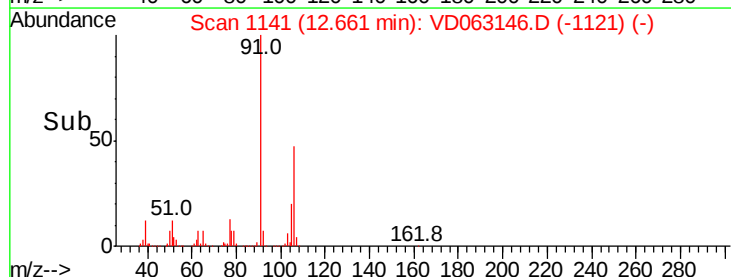
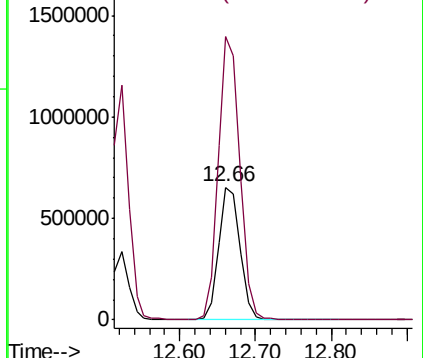
106 100

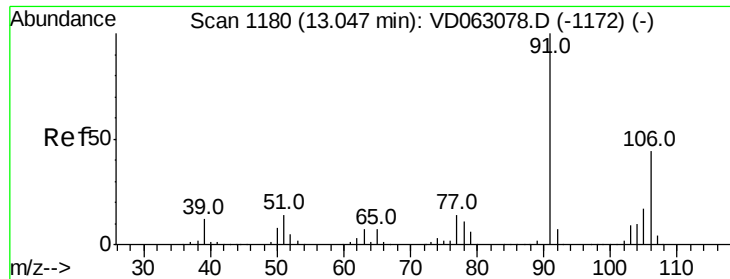
91 213.5 173.0 259.6



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





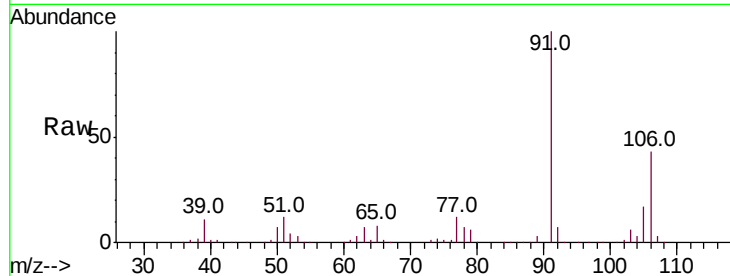
#69
o-Xylene
Concen: 50.947 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

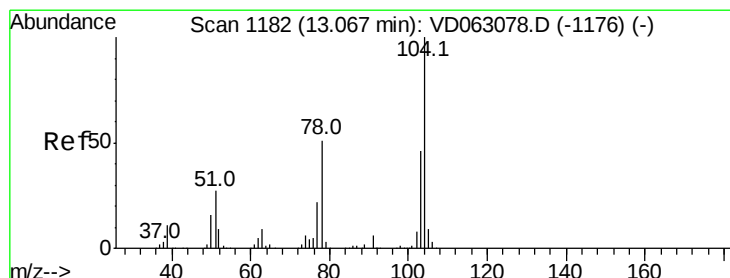
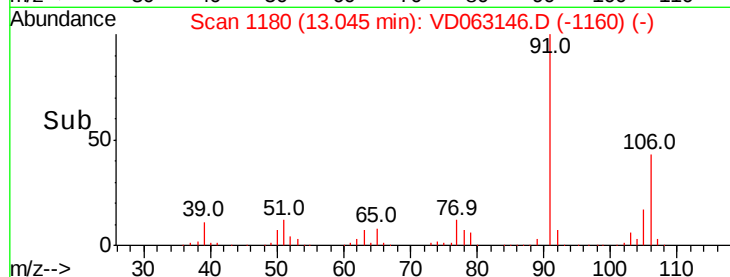
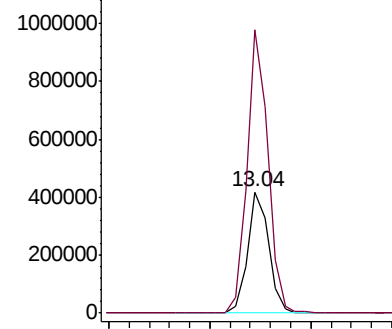
Tot Ion:106 Resp: 614065
Ion Ratio Lower Upper
106 100
91 233.9 114.9 344.7

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM

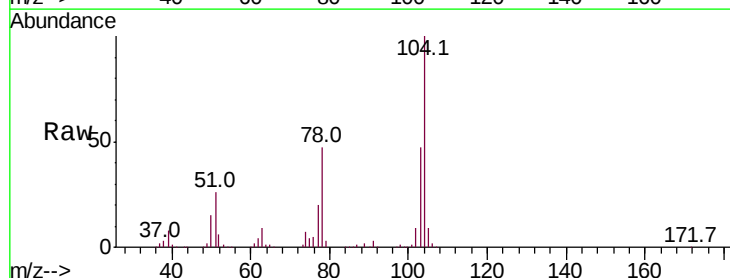


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

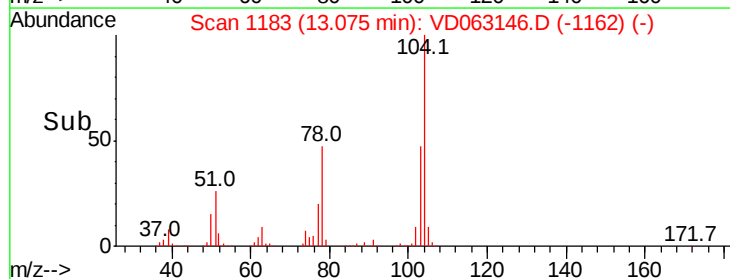
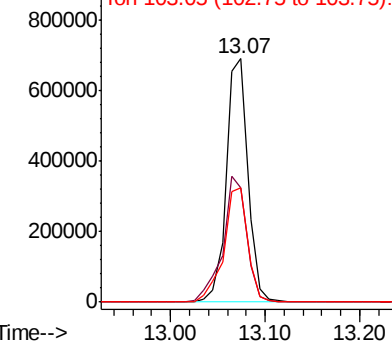


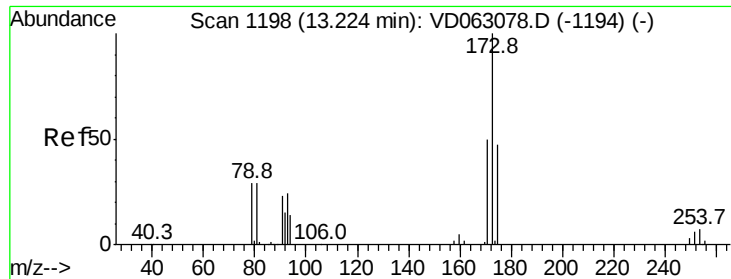
#70
Styrene
Concen: 51.638 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion:104 Resp: 1089453
Ion Ratio Lower Upper
104 100
78 46.9 41.1 61.7
103 46.8 37.0 55.6



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 54.895 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

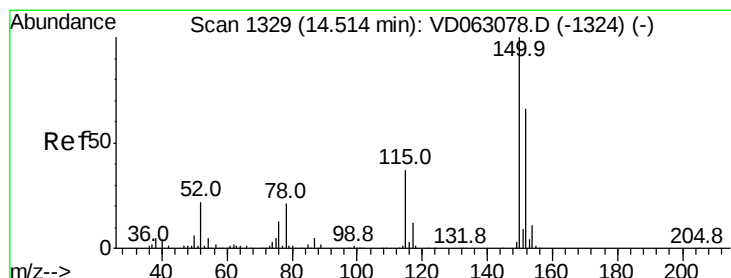
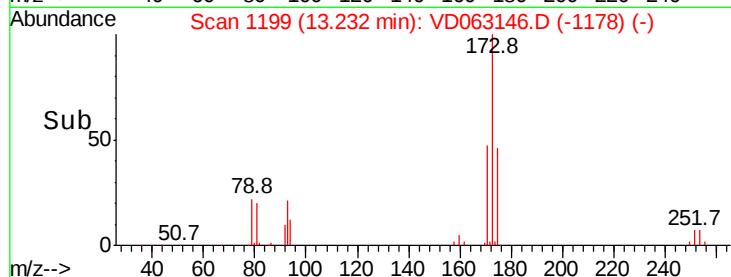
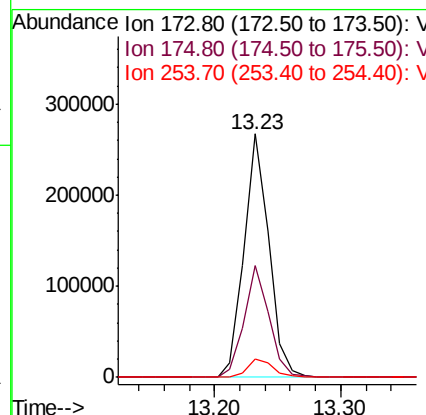
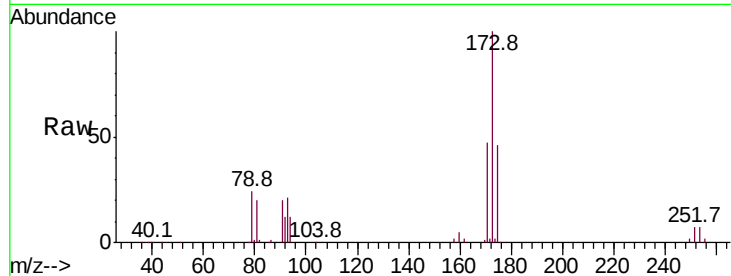
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.9	23.4	70.2
254	7.4	5.4	8.0

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

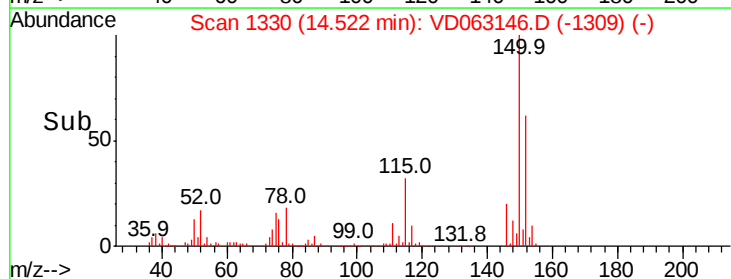
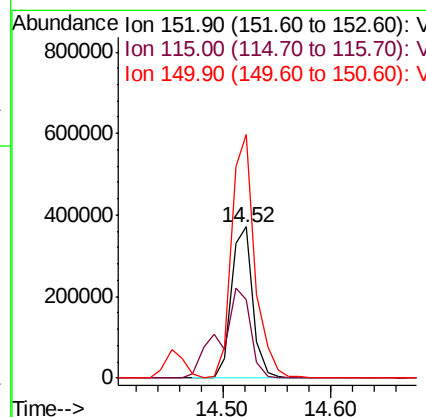
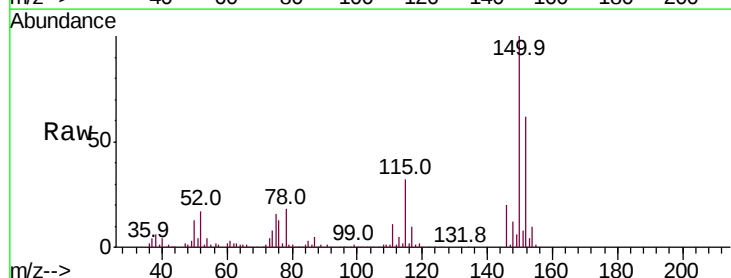
RT: 14.52 min Scan# 1330

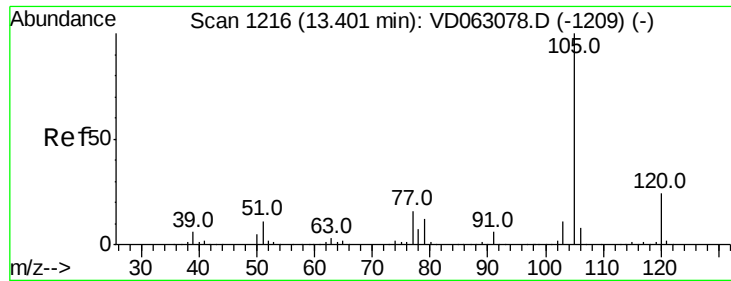
Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.1	28.9	86.8
150	160.8	0.0	313.8





#73

Isopropylbenzene

Concen: 46.640 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1834595

Ion Ratio Lower Upper

105 100

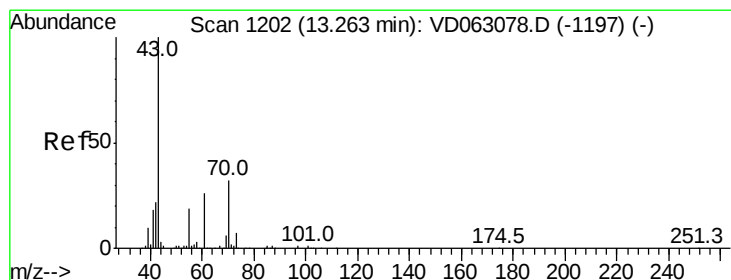
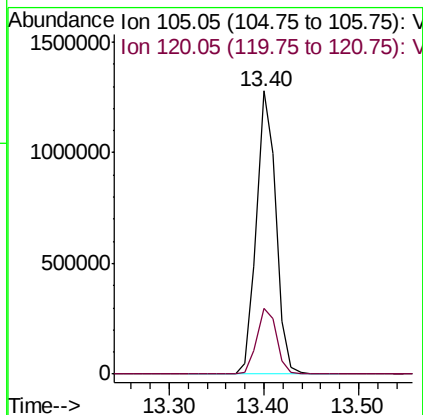
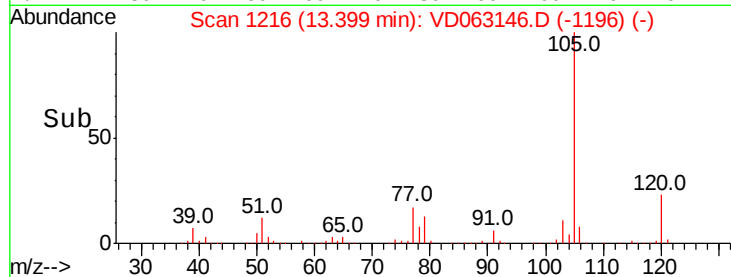
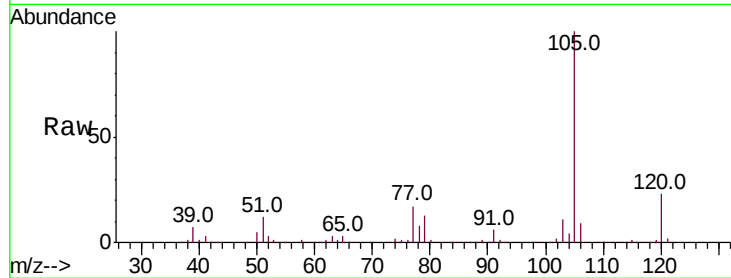
120 23.1 12.2 36.4

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#74

N-ethyl acetate

Concen: 46.897 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion: 43 Resp: 514476

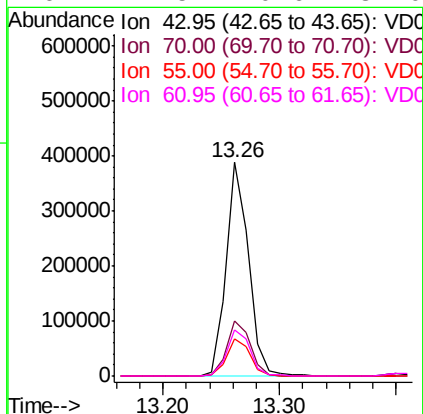
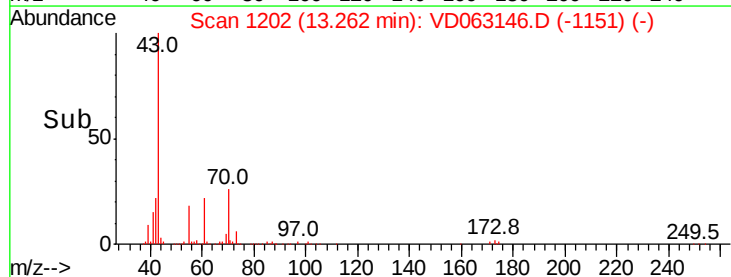
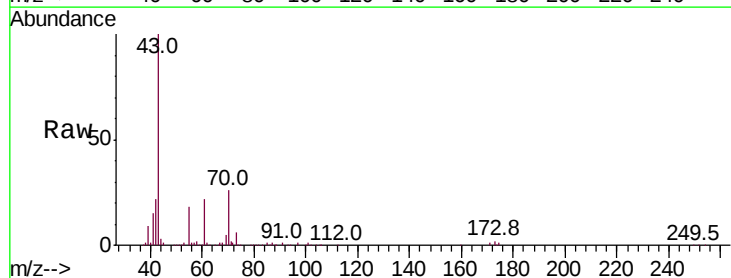
Ion Ratio Lower Upper

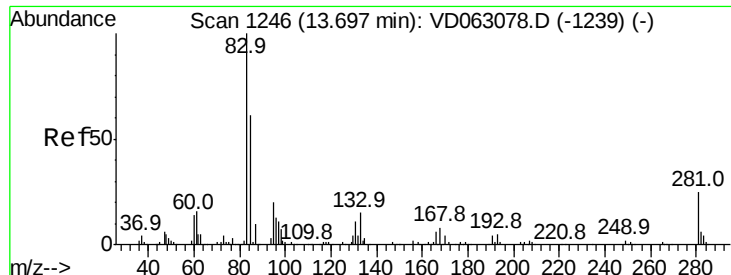
43 100

70 25.8 25.5 38.3

55 17.5 15.4 23.0

61 21.5 20.6 31.0





#75

1,1,2,2-Tetrachloroethane

Concen: 48.101 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 344252

Ion Ratio Lower Upper

83 100

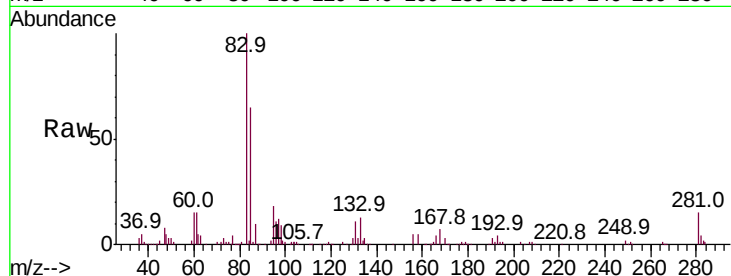
131 10.7 5.5 16.7

85 65.4 30.7 92.1

Manual Integrations
APPROVED

MMDadoda

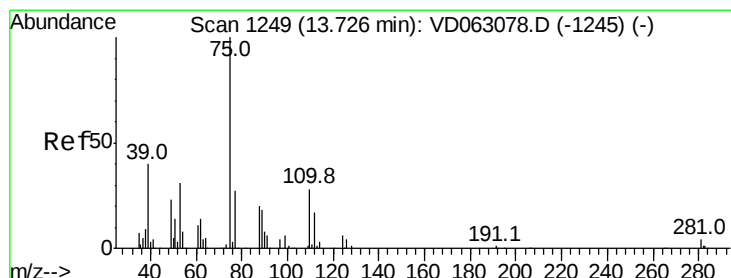
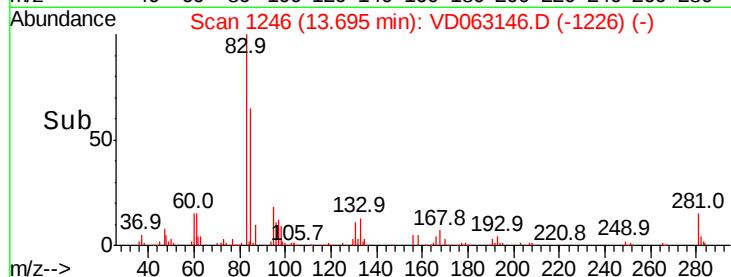
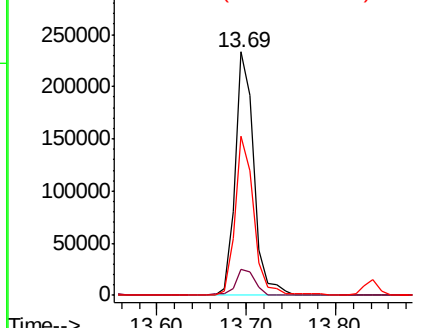
7/22/2019 10:42:53 AM



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 48.373 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VD063146.D

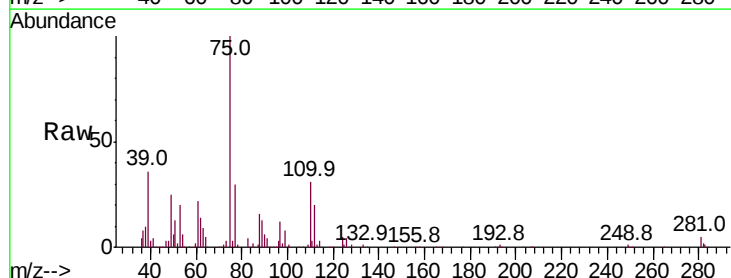
Acq: 19 Jul 2019 11:20

Tgt Ion: 75 Resp: 379011

Ion Ratio Lower Upper

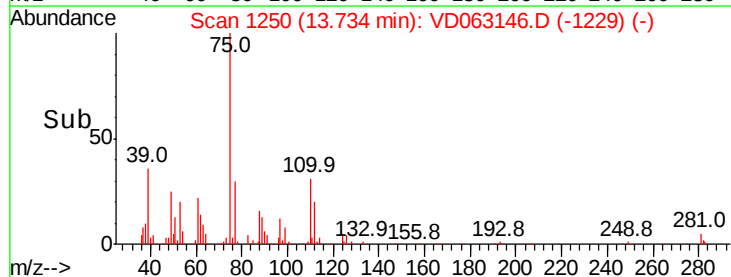
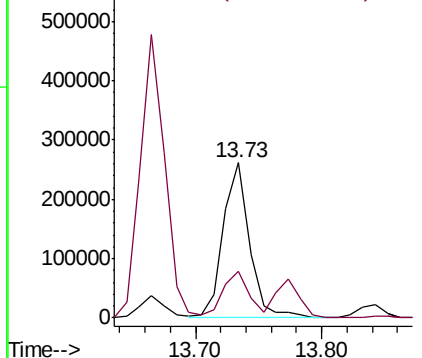
75 100

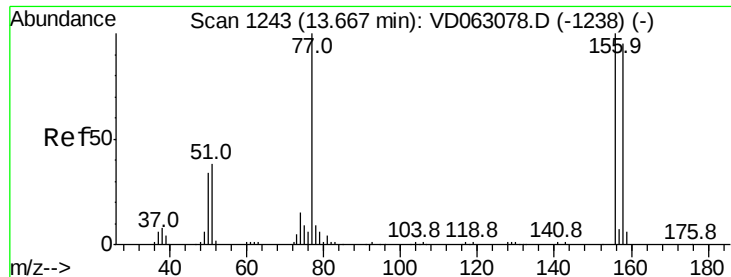
77 29.9 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 46.879 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 522933

Ion Ratio Lower Upper

156 100

77 132.3 50.2 150.7

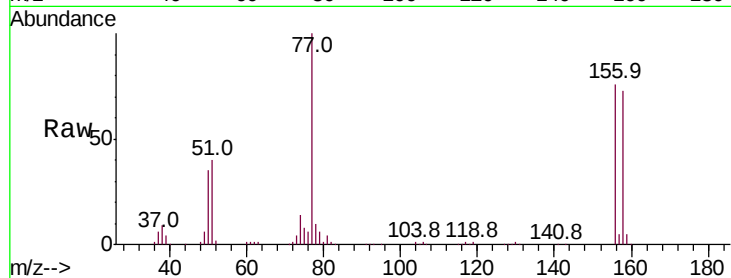
158 96.5 47.6 142.9

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V

600000

500000

400000

300000

200000

100000

0

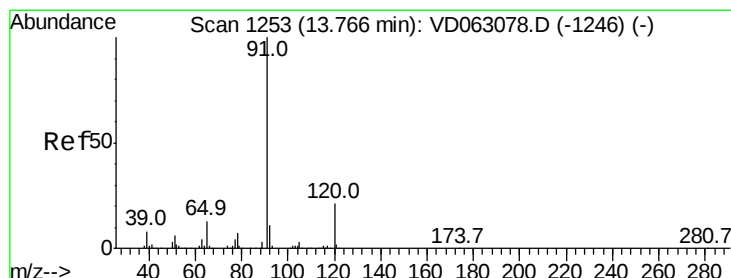
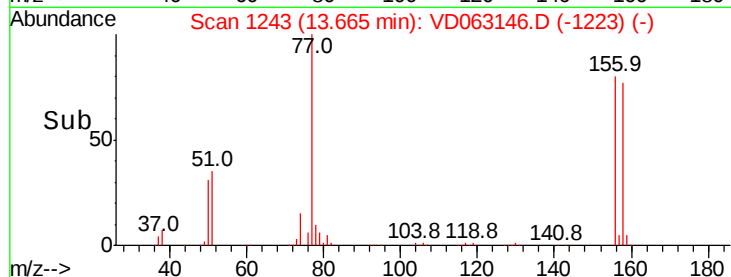
13.60

13.67

13.70

13.80

Time-->



#78

n-propylbenzene

Concen: 44.909 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.01 min

Lab File: VD063146.D

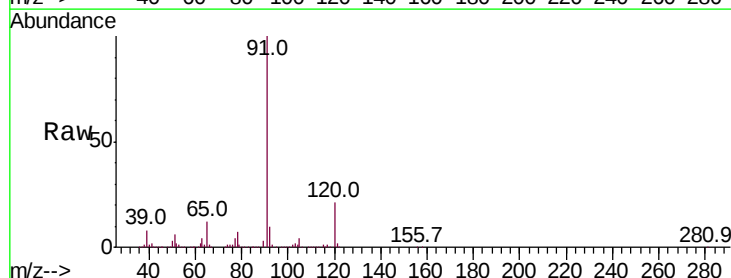
Acq: 19 Jul 2019 11:20

Tgt Ion: 91 Resp: 2032843

Ion Ratio Lower Upper

91 100

120 20.6 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

1500000

1000000

500000

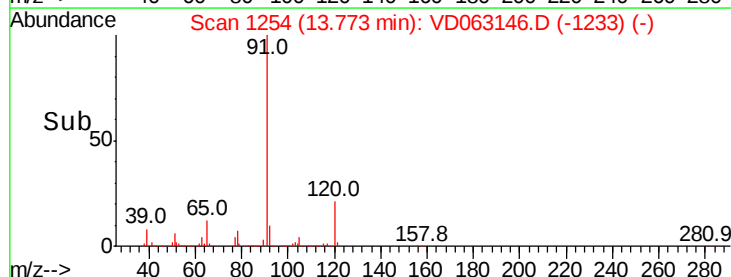
0

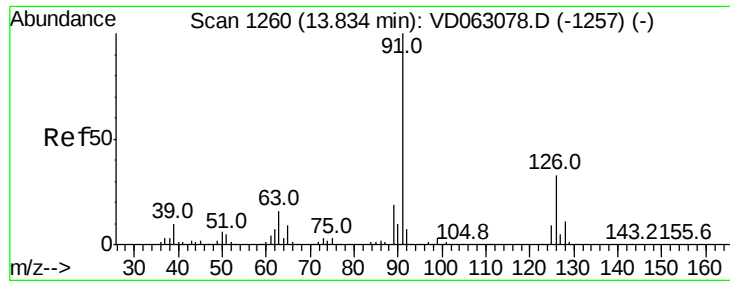
13.70

13.77

13.80

Time-->





#79

2-Chlorotoluene

Concen: 42.385 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1160046

Ion Ratio Lower Upper

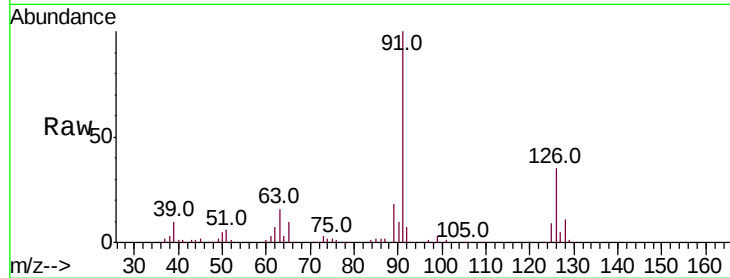
91 100

126 35.2 16.4 49.2

Manual Integrations
APPROVED

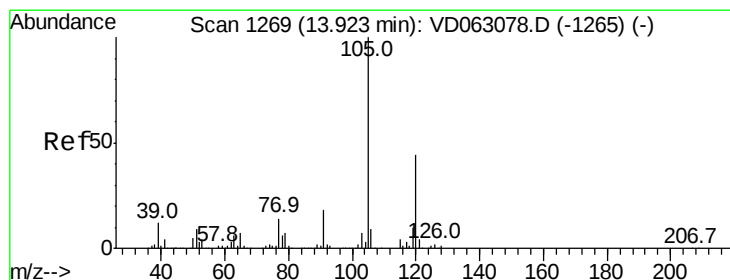
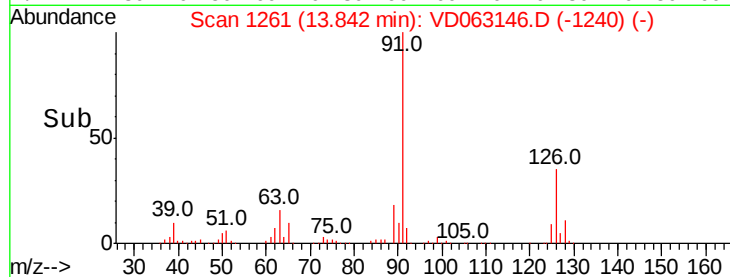
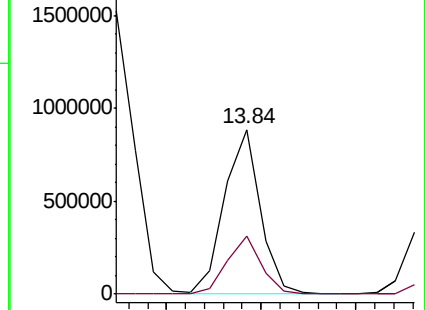
MMDadoda

7/22/2019 10:42:53 AM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 45.006 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VD063146.D

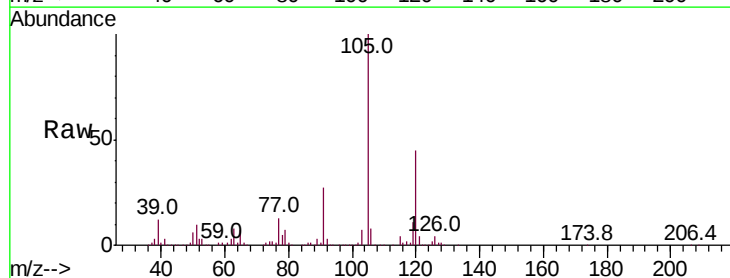
Acq: 19 Jul 2019 11:20

Tgt Ion: 105 Resp: 1542942

Ion Ratio Lower Upper

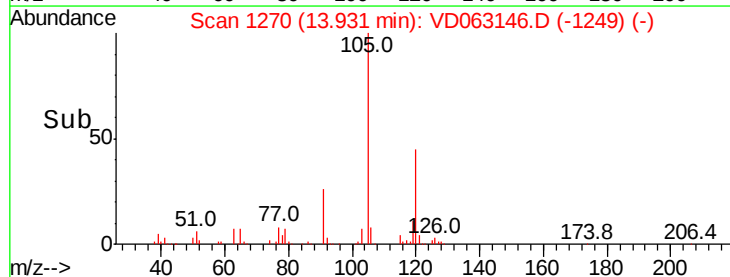
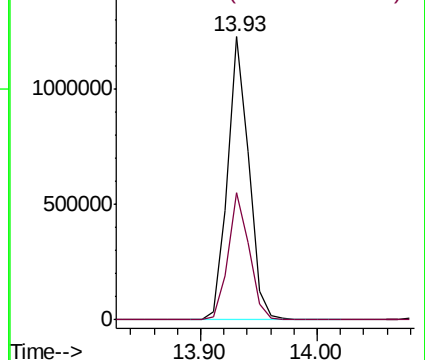
105 100

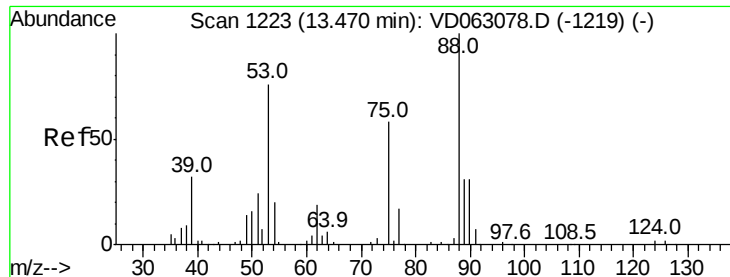
120 45.0 21.8 65.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





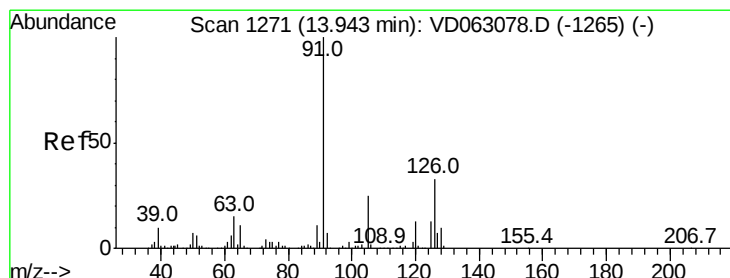
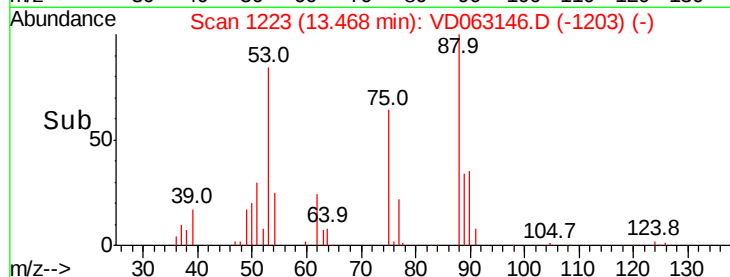
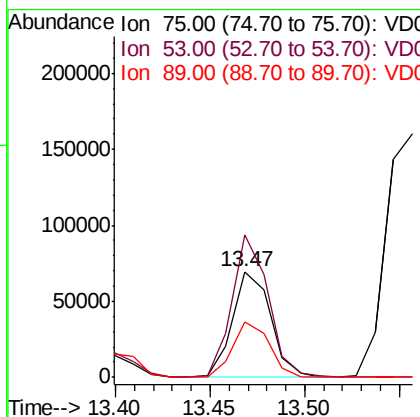
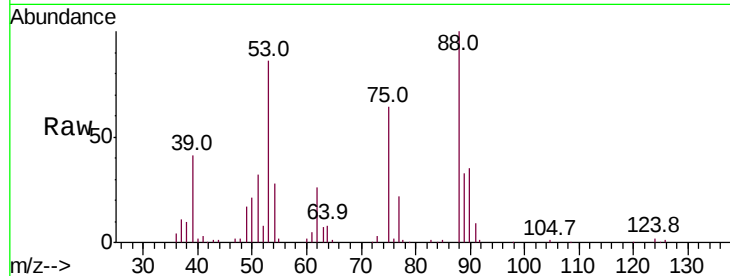
#81
trans-1,4-Dichloro-2-butene
Concen: 47.339 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	134.3	104.4	156.6
89	52.3	43.1	64.7

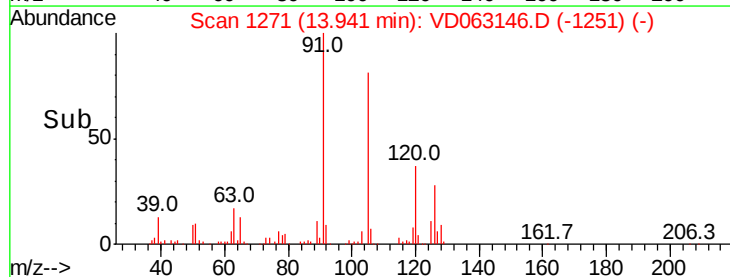
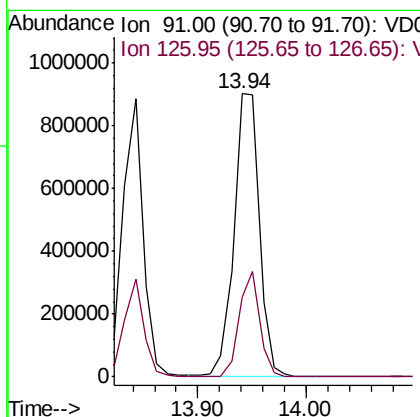
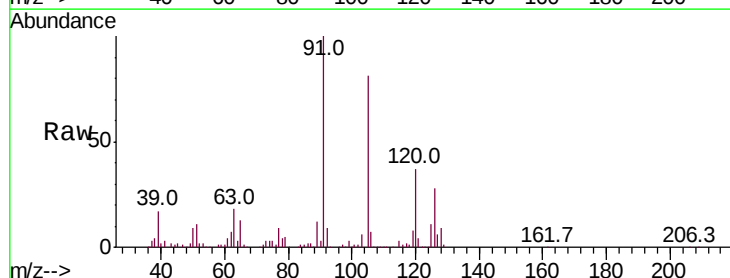
Manual Integrations
APPROVED

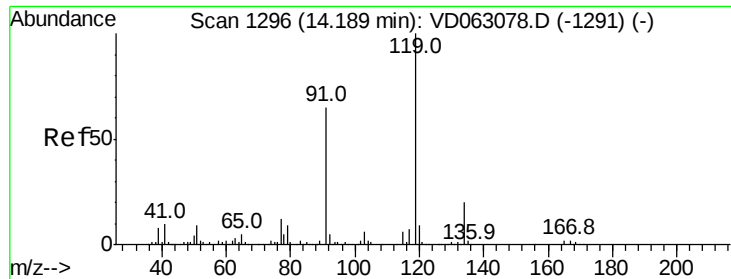
MMDadoda
7/22/2019 10:42:53 AM



#82
4-Chlorotoluene
Concen: 46.006 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.3	16.7	50.1





#83

tert-Butylbenzene

Concen: 43.371 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1681212

Ion Ratio Lower Upper

119 100

91 76.2 32.4 97.2

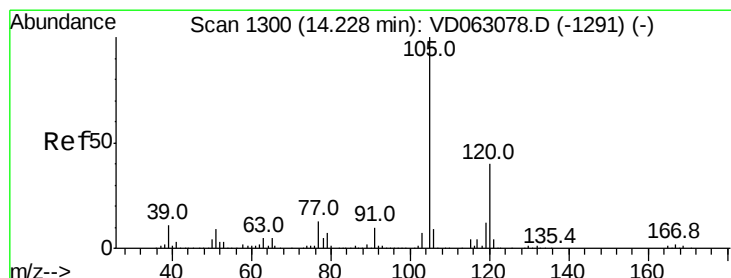
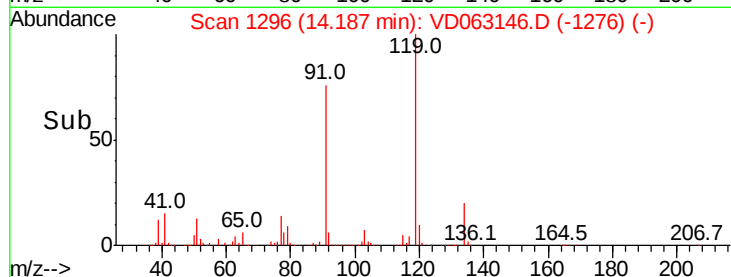
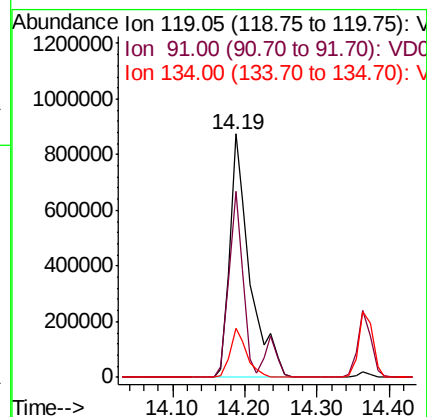
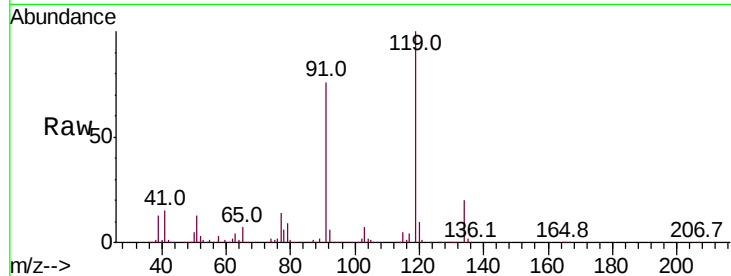
134 20.3 10.2 30.6

Manual Integrations

APPROVED

MMDadoda

7/22/2019 10:42:53 AM



#84

1,2,4-Trimethylbenzene

Concen: 48.112 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD063146.D

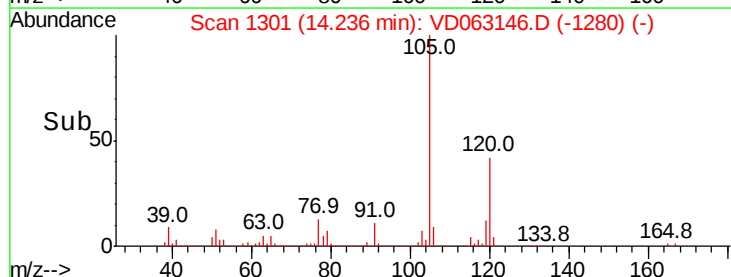
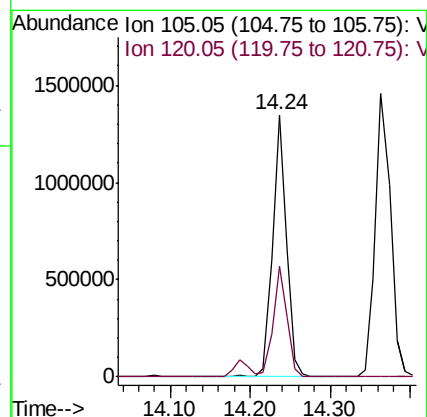
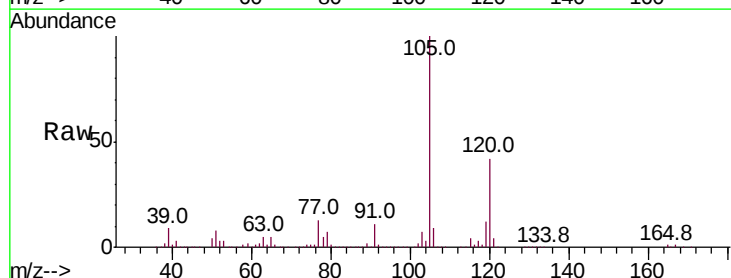
Acq: 19 Jul 2019 11:20

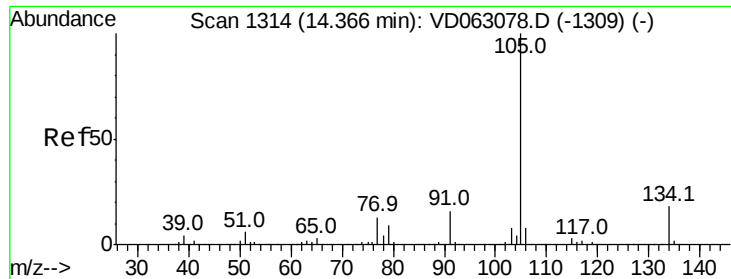
Tgt Ion:105 Resp: 1644388

Ion Ratio Lower Upper

105 100

120 42.2 20.2 60.6





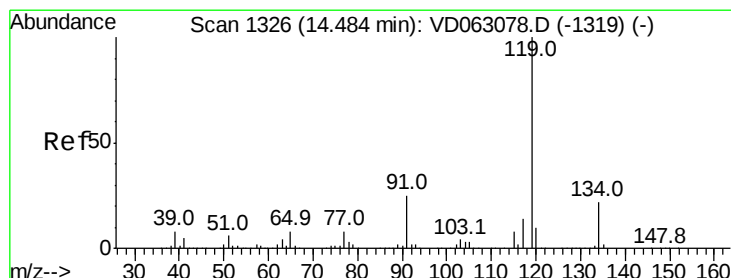
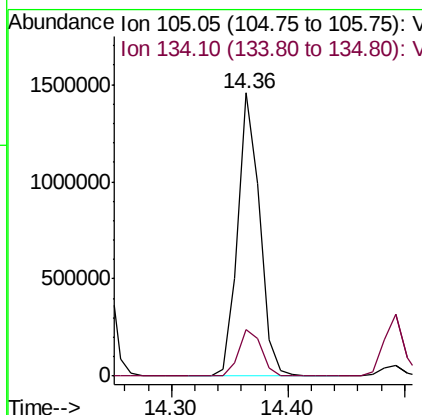
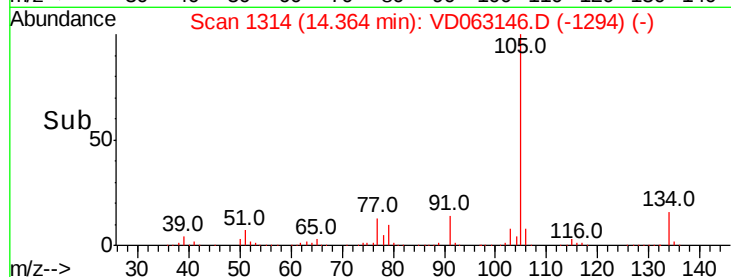
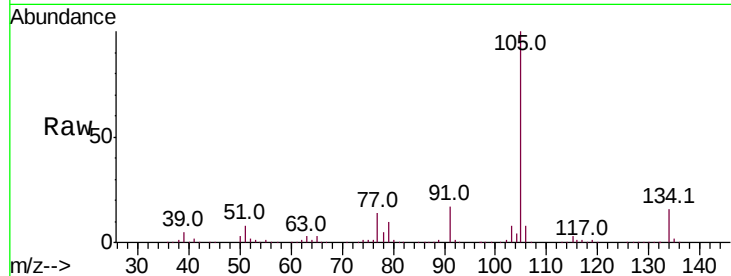
#85
 sec-Butylbenzene
 Concen: 46.049 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.00 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1896550
 Ion Ratio Lower Upper
 105 100
 134 16.4 8.9 26.8

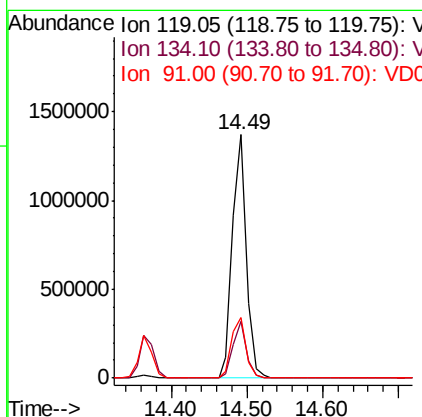
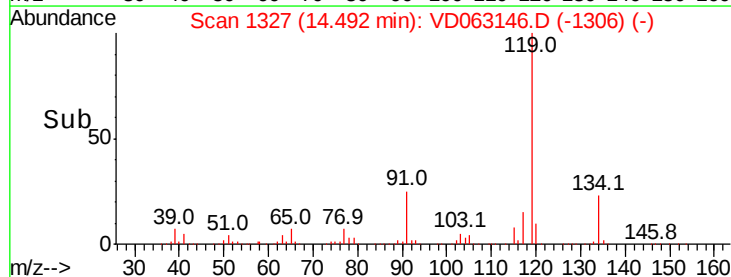
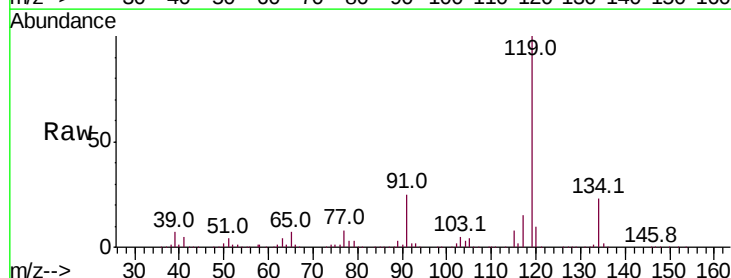
Manual Integrations
 APPROVED

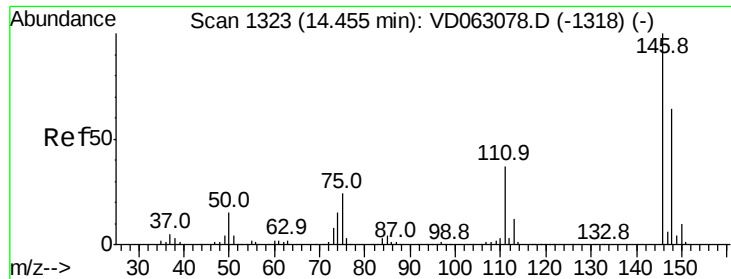
MMDadoda
 7/22/2019 10:42:53 AM



#86
 p-Isopropyltoluene
 Concen: 44.944 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion:119 Resp: 1726792
 Ion Ratio Lower Upper
 119 100
 134 23.2 10.8 32.4
 91 24.8 12.5 37.5





#87

1,3-Dichlorobenzene

Concen: 46.691 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Instrument :

MSVOA_D

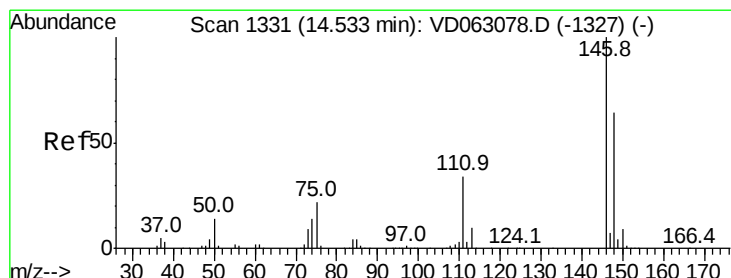
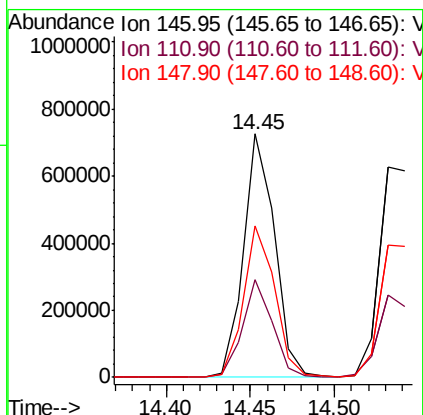
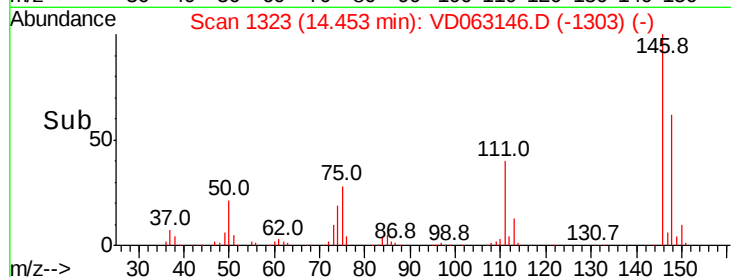
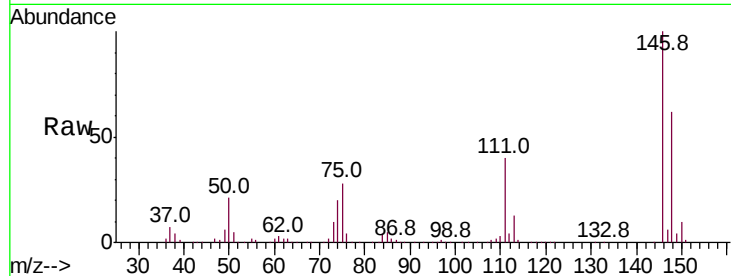
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	930127
Ion Ratio	Lower	Upper	
146	100		
111	40.3	18.6	55.6
148	62.0	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#88

1,4-Dichlorobenzene

Concen: 47.712 ug/l

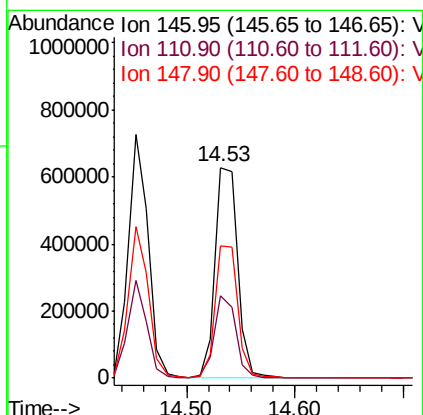
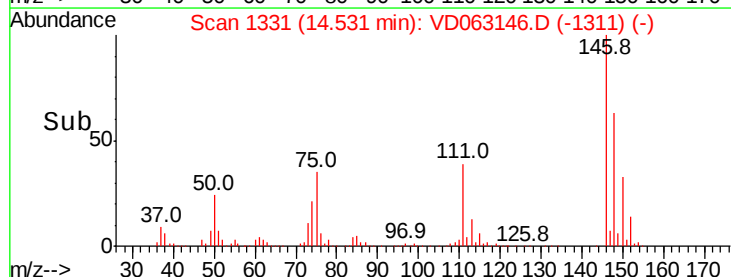
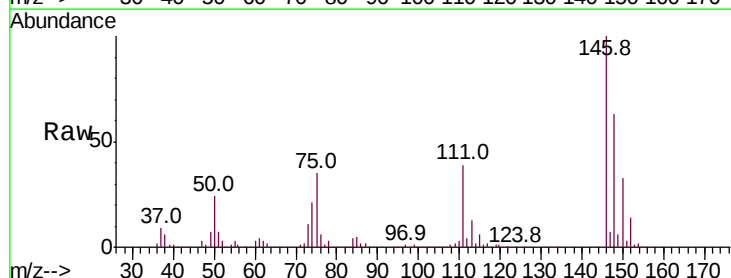
RT: 14.53 min Scan# 1331

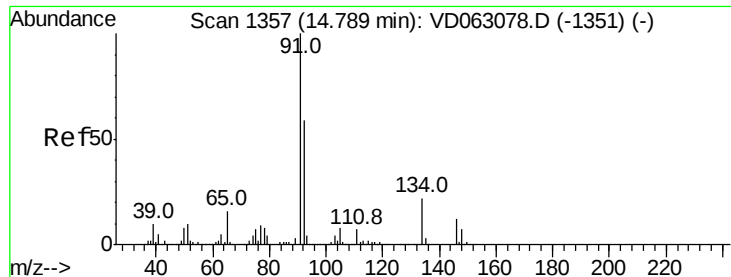
Delta R.T. -0.00 min

Lab File: VD063146.D

Acq: 19 Jul 2019 11:20

Tgt Ion:	146	Resp:	911198
Ion Ratio	Lower	Upper	
146	100		
111	39.4	17.0	51.0
148	62.8	32.0	96.2





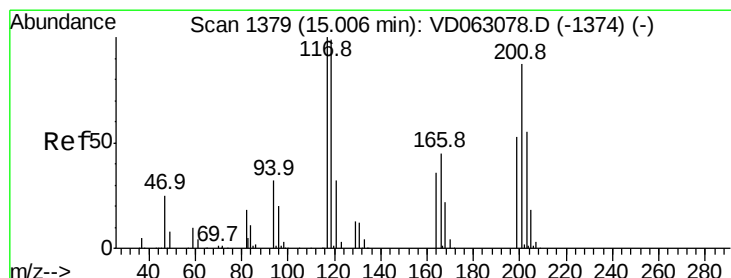
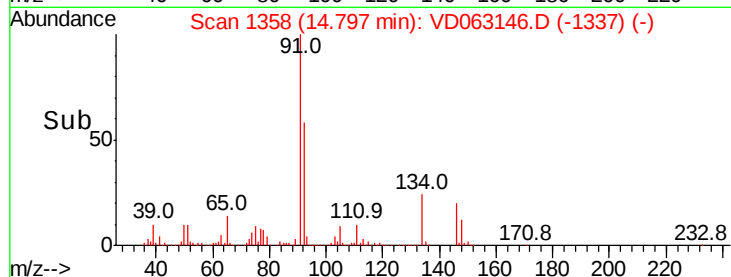
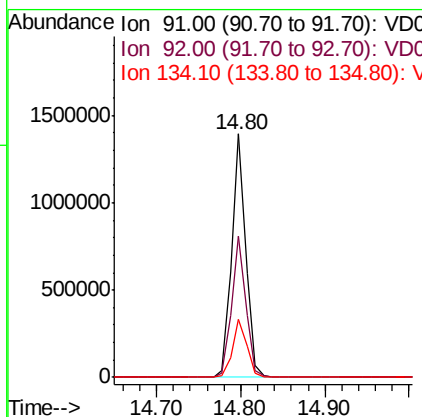
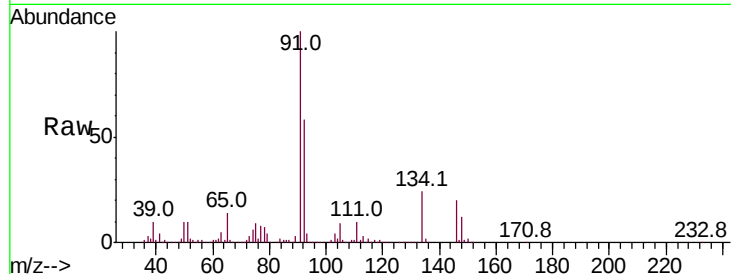
#89
n-Butylbenzene
Concen: 45.539 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.4	88.3
134	23.9	11.3	33.8

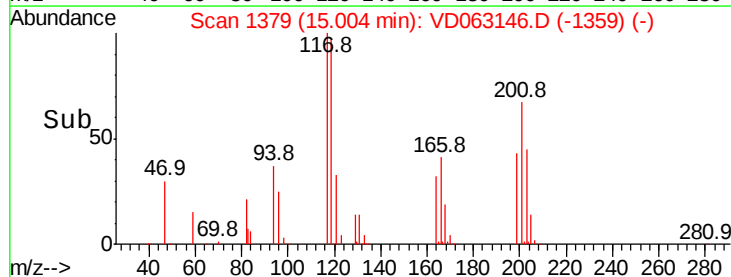
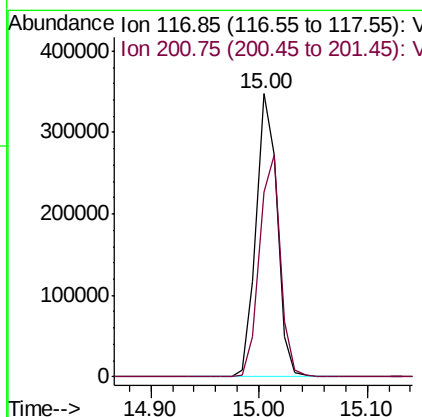
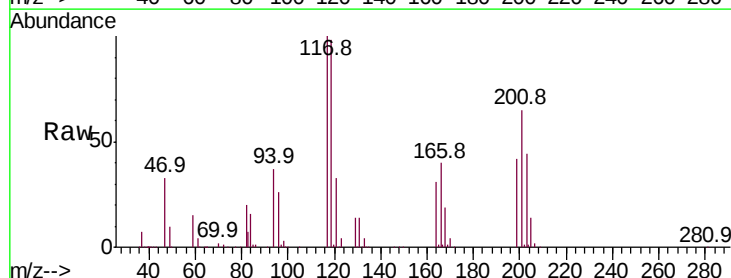
Manual Integrations
APPROVED

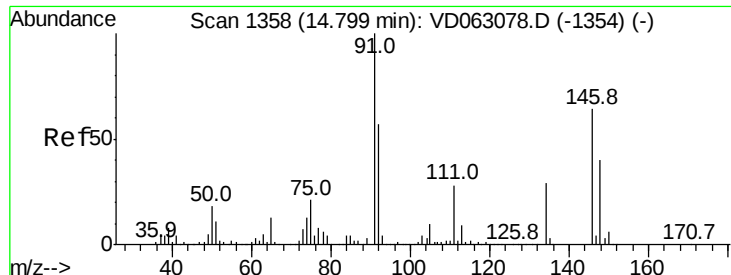
MMDadoda
7/22/2019 10:42:53 AM



#90
Hexachloroethane
Concen: 46.242 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.00 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	65.2	43.4	130.1





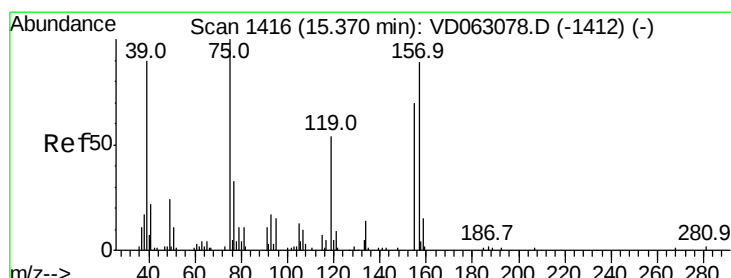
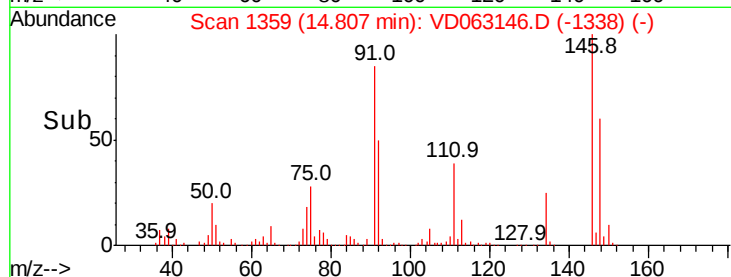
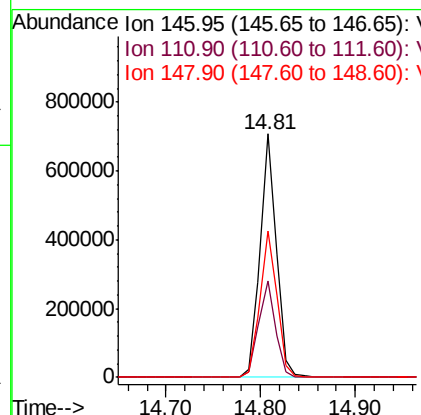
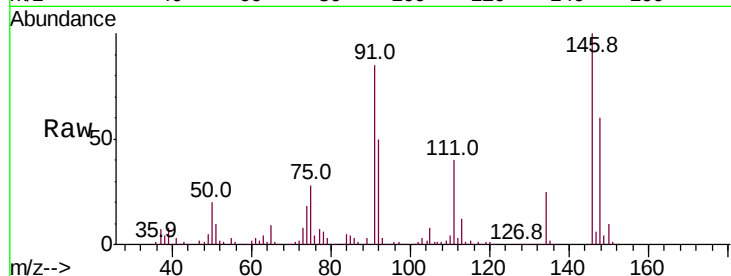
#91
 1,2-Dichlorobenzene
 Concen: 48.052 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	21.9	65.5
148	60.2	31.5	94.5

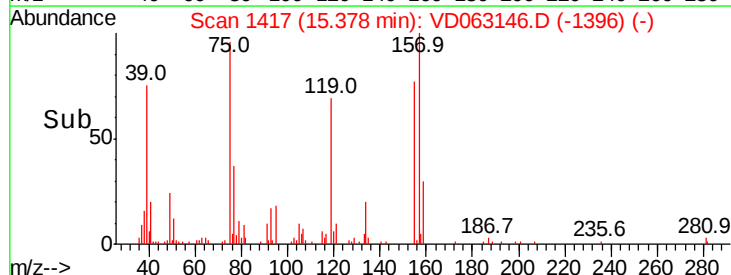
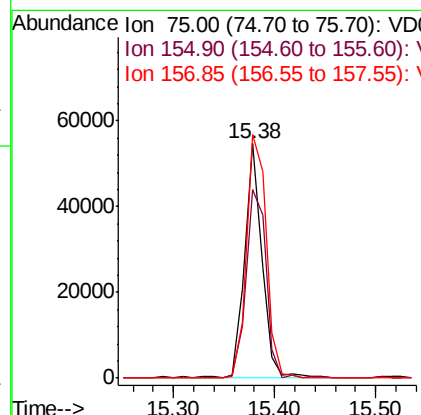
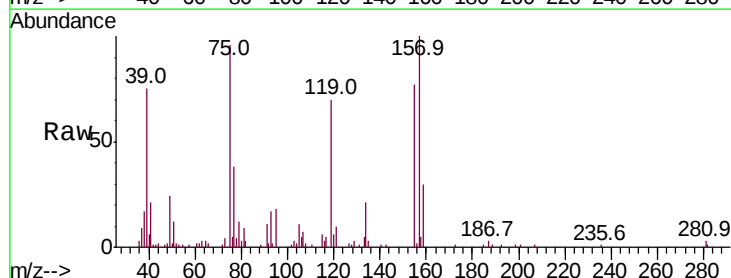
Manual Integrations
 APPROVED

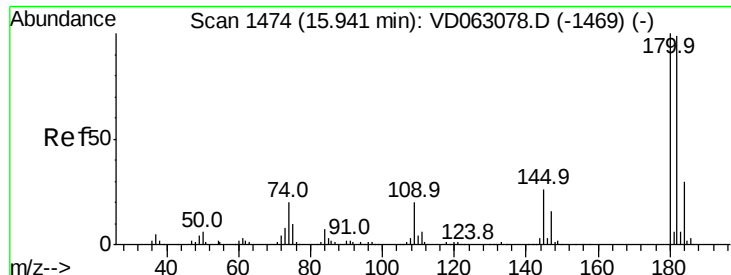
MMDadoda
 7/22/2019 10:42:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.638 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.4	34.8	104.3
157	103.8	44.7	134.1





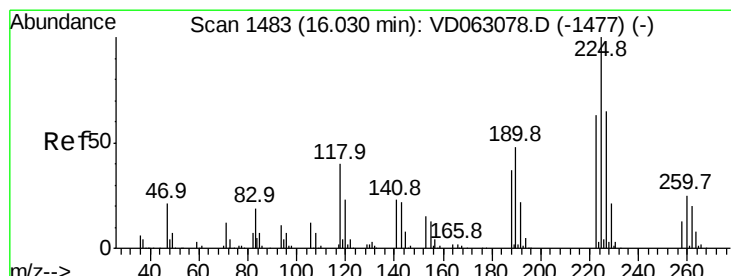
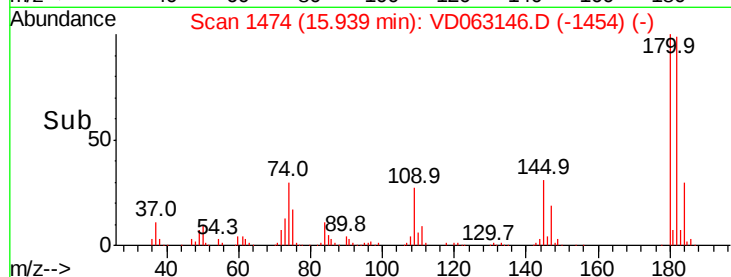
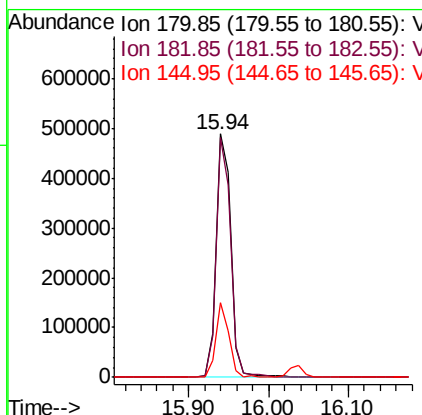
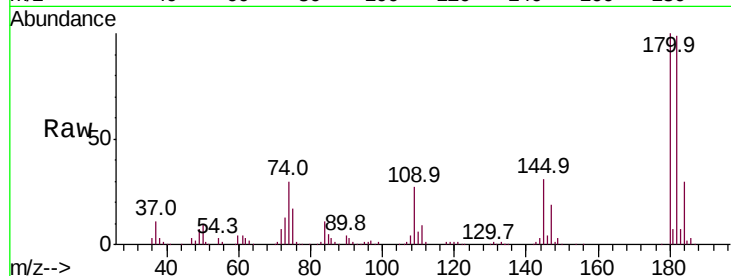
#93
 1,2,4-Trichlorobenzene
 Concen: 48.288 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	643530		
182	98.6	49.5	148.3	
145	30.6	12.8	38.4	

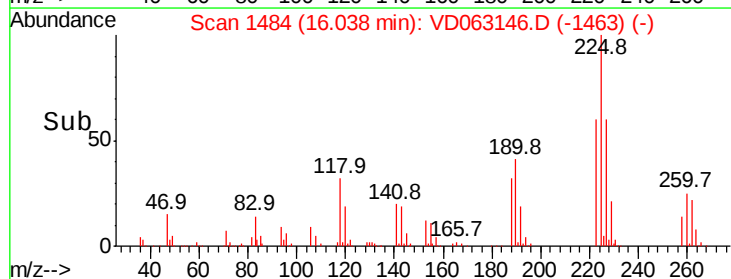
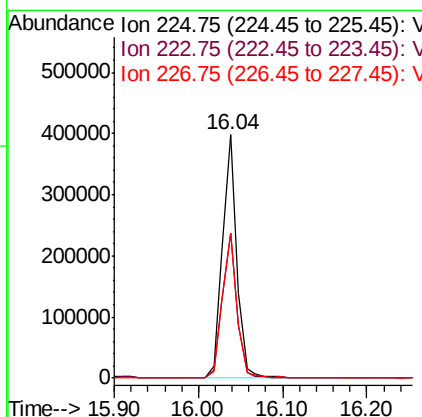
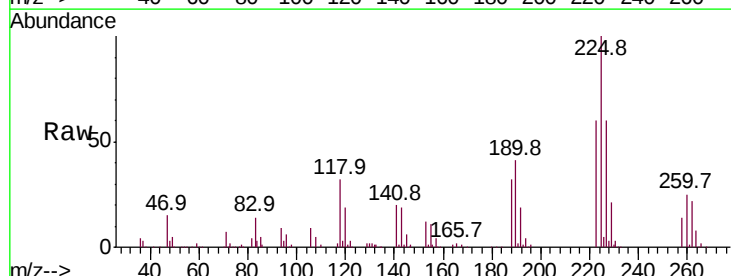
Manual Integrations
 APPROVED

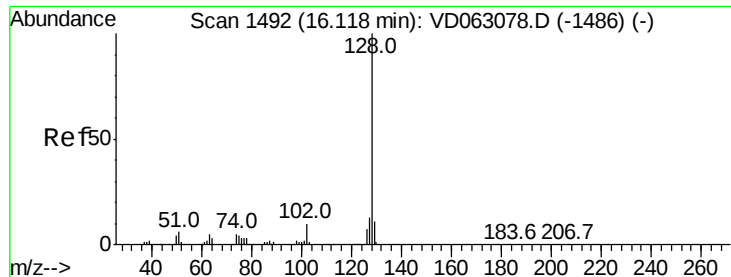
MMDadoda
 7/22/2019 10:42:53 AM



#94
 Hexachlorobutadiene
 Concen: 48.052 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: VD063146.D
 Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	472025		
223	59.7	31.4	94.2	
227	59.8	32.6	97.8	





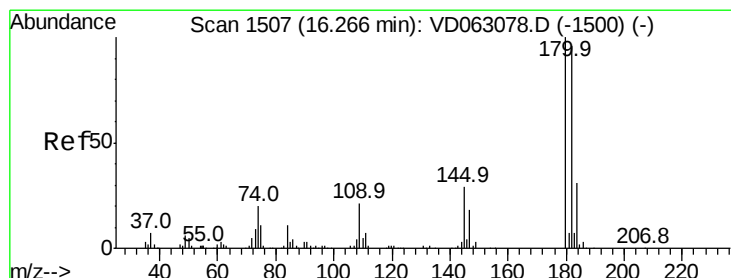
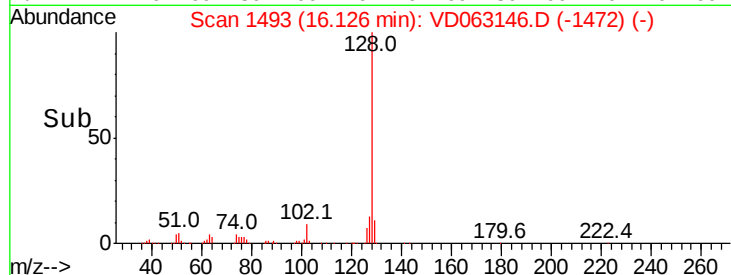
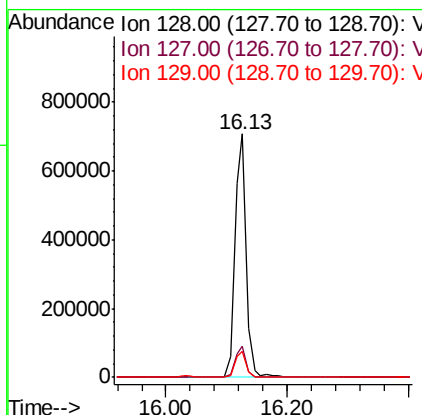
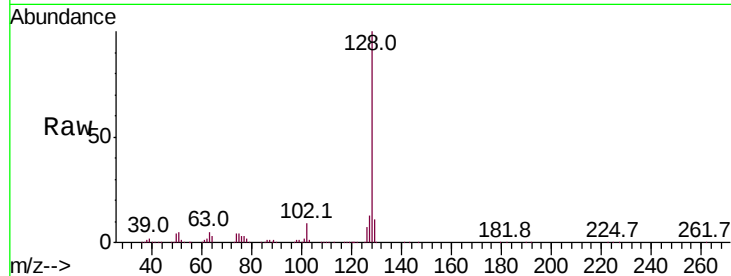
#95
Naphthalene
Concen: 46.616 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.7	16.1
129	10.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/22/2019 10:42:53 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.975 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.01 min
Lab File: VD063146.D
Acq: 19 Jul 2019 11:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.9	143.6
145	26.1	14.4	43.4

