

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061823.D
 Acq On : 4 Mar 2019 16:33
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM

Quant Time: Mar 05 04:45:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	334530	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	491479	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	429765	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	241988	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	23915	9.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.50%	
35) Dibromofluoromethane	4.12	113	36303	9.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.90%	
50) Toluene-d8	7.56	98	105844	10.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.18%	
62) 4-Bromofluorobenzene	11.42	95	43255	10.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	45529	11.851	ug/l	99
3) Chloromethane	1.10	50	41616	10.325	ug/l	98
4) Vinyl Chloride	1.14	62	39202	10.462	ug/l	93
5) Bromomethane	1.32	94	27569	10.690	ug/l	92
6) Chloroethane	1.40	64	19012	10.296	ug/l	89
7) Trichlorofluoromethane	1.49	101	47535	10.518	ug/l	85
8) Diethyl Ether	1.63	74	10906	9.575	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.84	101	32425	9.945	ug/l #	94
10) Methyl Iodide	1.90	142	61103m	9.811	ug/l	
11) Tert butyl alcohol	2.58	59	7457	52.524	ug/l	96
12) 1,1-Dichloroethene	1.80	96	31055	10.833	ug/l	98
13) Acrolein	2.01	56	8688	48.690	ug/l	94
14) Allyl chloride	2.10	41	31646	8.996	ug/l	91
15) Acrylonitrile	2.95	53	20102	39.918	ug/l #	84
16) Acetone	2.25	43	25638	48.710	ug/l	93
17) Carbon Disulfide	1.84	76	90759m	10.072	ug/l	
18) Methyl Acetate	2.35	43	14240	12.010	ug/l #	88
19) Methyl tert-butyl Ether	2.44	73	45452	9.278	ug/l	98
20) Methylene Chloride	2.19	84	45225m	14.224	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	28817	9.247	ug/l	92
22) Diisopropyl ether	2.81	45	81041	9.598	ug/l	92
23) Vinyl Acetate	3.19	43	178428	43.264	ug/l #	93
24) 1,1-Dichloroethane	2.88	63	51415	10.062	ug/l	98
25) 2-Butanone	4.36	43	52214	45.416	ug/l	93
26) 2,2-Dichloropropane	3.61	77	22419	10.358	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	35701	8.728	ug/l	98
28) Bromochloromethane	3.72	49	22136	9.029	ug/l	93
29) Tetrahydrofuran	4.09	42	22879	43.784	ug/l	93
30) Chloroform	3.87	83	56194	9.670	ug/l	95
31) Cyclohexane	3.70	56	53874	9.739	ug/l	86
32) 1,1,1-Trichloroethane	4.11	97	33833	8.888	ug/l	95
36) 1,1-Dichloropropene	4.29	75	46522	9.555	ug/l	91
37) Ethyl Acetate	4.12	43	19328	8.547	ug/l #	79
38) Carbon Tetrachloride	3.99	117	33534	9.975	ug/l	87

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061823.D
 Acq On : 4 Mar 2019 16:33
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM

Quant Time: Mar 05 04:45:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.46	83	55877	9.704	ug/l #	90
40) Benzene	4.64	78	125931	9.889	ug/l	100
41) Methacrylonitrile	4.75	41	10592	9.159	ug/l	90
42) 1,2-Dichloroethane	4.95	62	31535	10.352	ug/l	92
43) Isopropyl Acetate	6.97	43	23251	8.686	ug/l #	89
44) Trichloroethene	5.51	130	38237	9.285	ug/l	96
45) 1,2-Dichloropropane	6.24	63	27959	9.083	ug/l #	86
46) Dibromomethane	6.09	93	18406	9.711	ug/l #	83
47) Bromodichloromethane	6.39	83	40471	9.751	ug/l	96
48) Methyl methacrylate	6.72	41	15080	9.361	ug/l	95
49) 1,4-Dioxane	6.72	88	2651	175.066	ug/l	95
51) 4-Methyl-2-Pentanone	8.26	43	89023	46.544	ug/l	99
52) Toluene	7.63	92	73332	9.495	ug/l	87
53) t-1,3-Dichloropropene	8.28	75	33513	9.702	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	45209	9.826	ug/l	91
55) 1,1,2-Trichloroethane	8.50	97	21084	9.291	ug/l	97
56) Ethyl methacrylate	8.63	69	24191	9.575	ug/l #	86
57) 1,3-Dichloropropane	8.86	76	32604	8.608	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	18219	41.796	ug/l	92
59) 2-Hexanone	9.50	43	61911	46.178	ug/l	98
60) Dibromochloromethane	8.72	129	27930	8.843	ug/l	85
61) 1,2-Dibromoethane	8.99	107	22244	9.038	ug/l	87
64) Tetrachloroethene	8.16	164	33990	9.676	ug/l	95
65) Chlorobenzene	9.81	112	81047	9.293	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	32118	9.399	ug/l	97
67) Ethyl Benzene	9.91	91	141356	9.747	ug/l	99
68) m/p-Xylenes	10.13	106	110241	19.862	ug/l	90
69) o-Xylene	10.72	106	57646	9.733	ug/l	86
70) Styrene	10.79	104	81478	9.725	ug/l	97
71) Bromoform	10.77	173	16586	8.938	ug/l	98
73) Isopropylbenzene	11.13	105	164948	9.574	ug/l	99
74) N-amyl acetate	11.38	43	38877	9.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	26038	8.436	ug/l	91
76) 1,2,3-Trichloropropane	11.80	75	18793	8.955	ug/l	89
77) Bromobenzene	11.50	156	40016	9.401	ug/l	95
78) n-propylbenzene	11.60	91	197006	9.964	ug/l	95
79) 2-Chlorotoluene	11.72	91	111418	10.062	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	138446	10.054	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.88	75	7553m	7.507	ug/l	
82) 4-Chlorotoluene	11.90	91	114798	9.989	ug/l	89
83) tert-Butylbenzene	12.14	119	150366	9.859	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	129255	9.448	ug/l	94
85) sec-Butylbenzene	12.31	105	186021	9.432	ug/l	96
86) p-Isopropyltoluene	12.46	119	166803	10.077	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	82865	9.986	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	75218	9.426	ug/l	98
89) n-Butylbenzene	12.85	91	159279	10.190	ug/l	99
90) Hexachloroethane	12.92	117	36454	9.469	ug/l	96
91) 1,2-Dichlorobenzene	12.94	146	73824	9.354	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4023	8.221	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
Data File : VF061823.D
Acq On : 4 Mar 2019 16:33
Operator : VA/AP
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

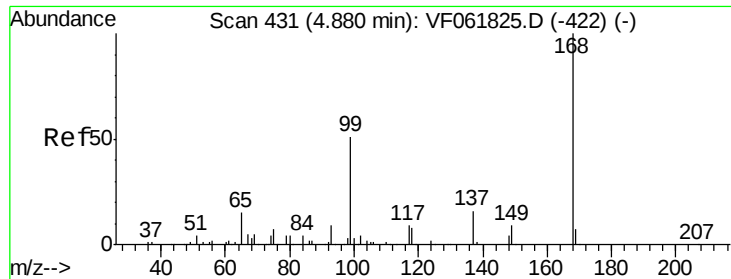
Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM

Quant Time: Mar 05 04:45:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:04:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	52480	9.277	ug/l	98
94) Hexachlorobutadiene	14.20	225	33176	9.496	ug/l	96
95) Naphthalene	14.46	128	82593	8.344	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	44130	8.499	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 334530

Ion Ratio Lower Upper

168 100

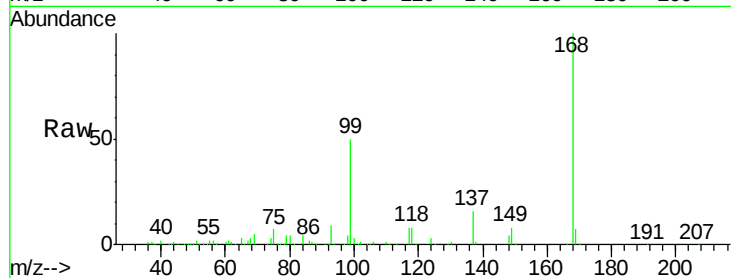
99 49.7 34.9 52.3

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:47:13 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

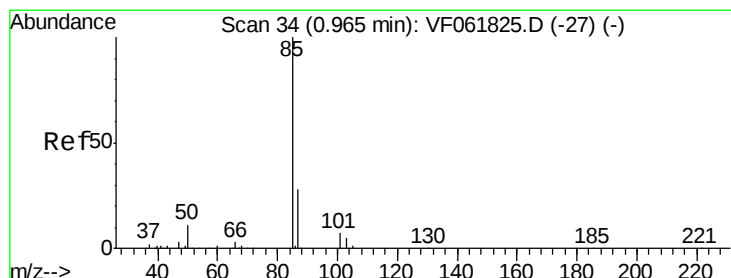
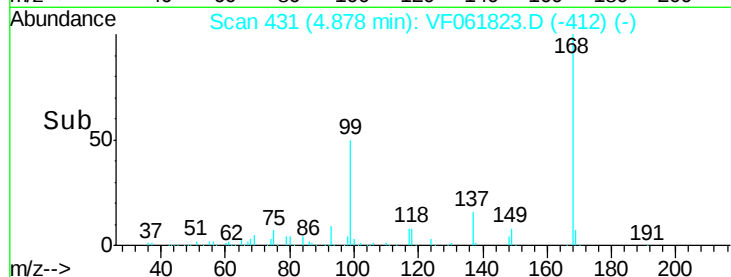
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 11.851 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061823.D

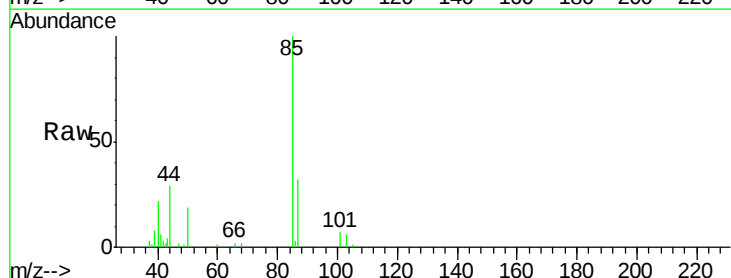
Acq: 4 Mar 2019 16:33

Tgt Ion: 85 Resp: 45529

Ion Ratio Lower Upper

85 100

87 32.5 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

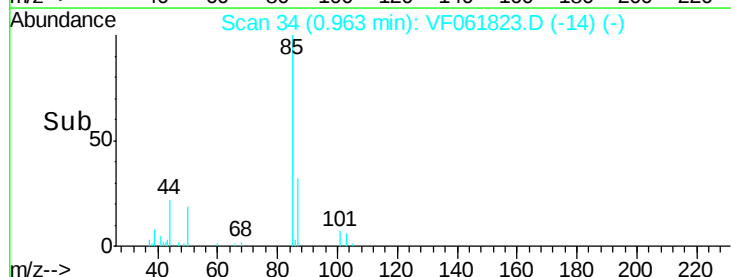
15000

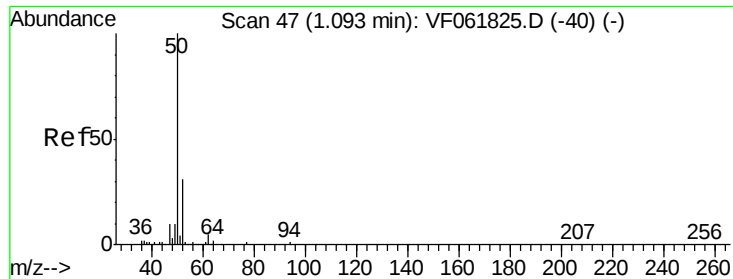
10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 10.325 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 41616

Ion Ratio Lower Upper

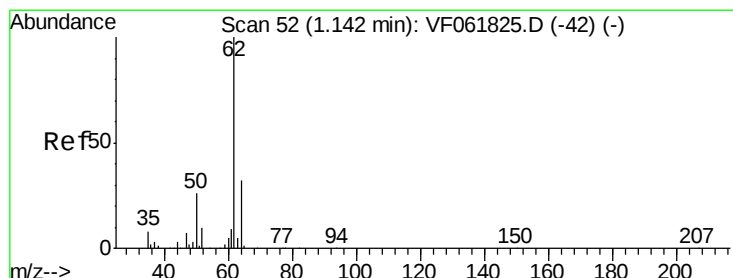
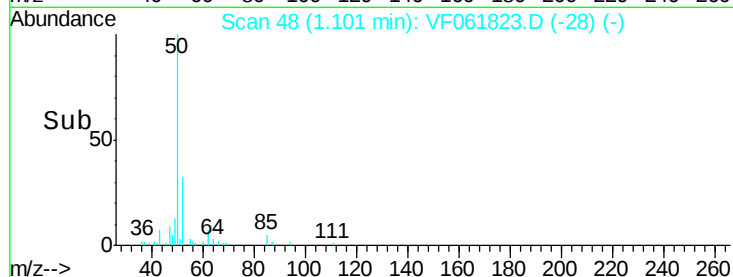
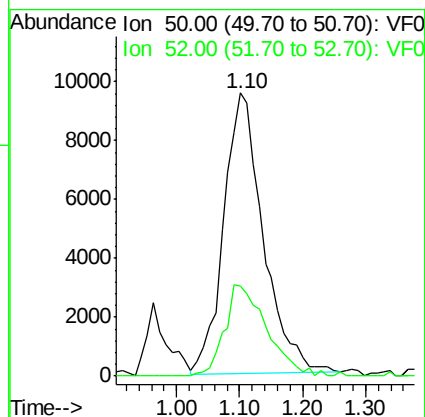
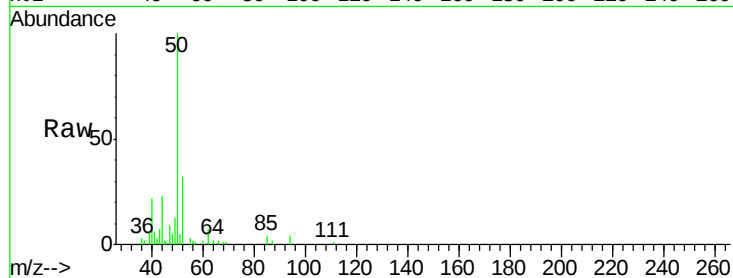
50 100

52 31.7 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

3/5/2019 10:47:13 AM



#4

Vinyl Chloride

Concen: 10.462 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061823.D

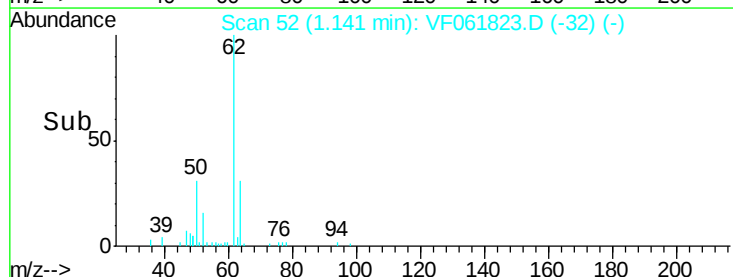
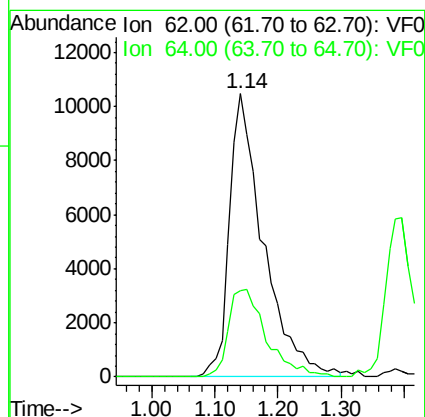
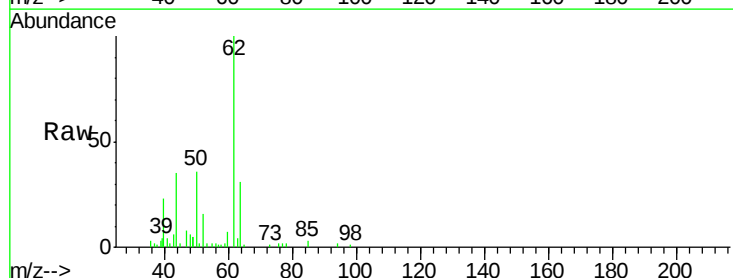
Acq: 4 Mar 2019 16:33

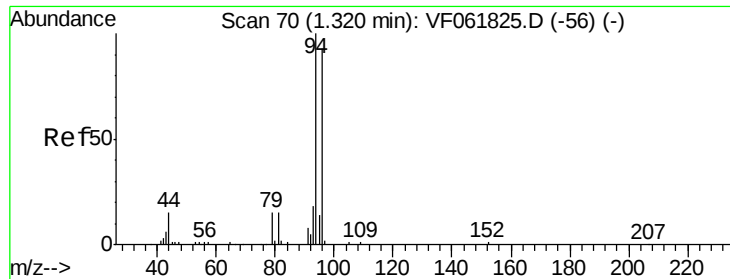
Tgt Ion: 62 Resp: 39202

Ion Ratio Lower Upper

62 100

64 30.5 27.5 41.3





#5

Bromomethane

Concen: 10.690 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 27569

Ion Ratio Lower Upper

94 100

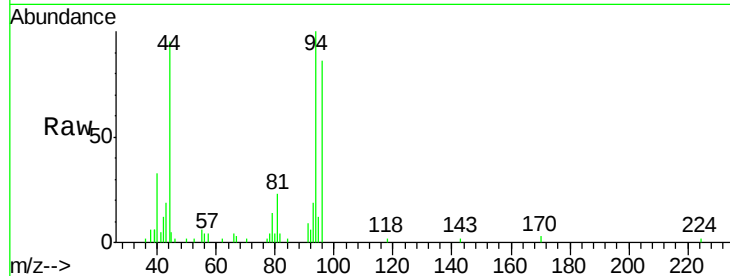
96 85.8 74.6 112.0

Manual Integrations

APPROVED

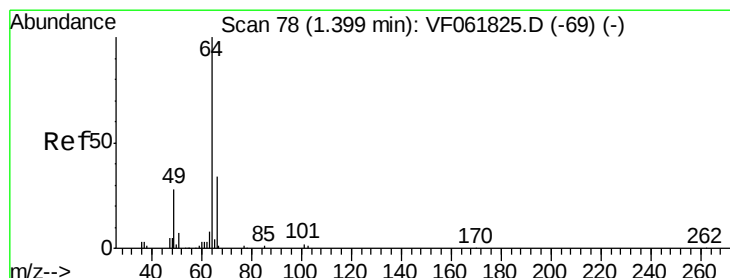
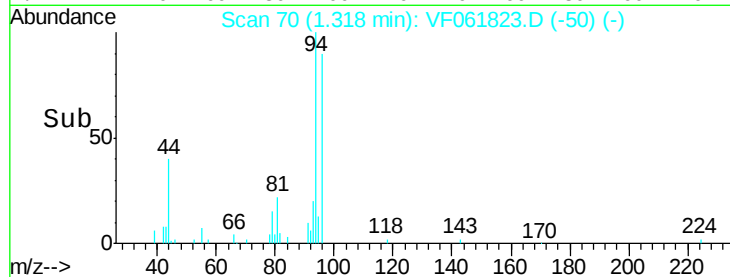
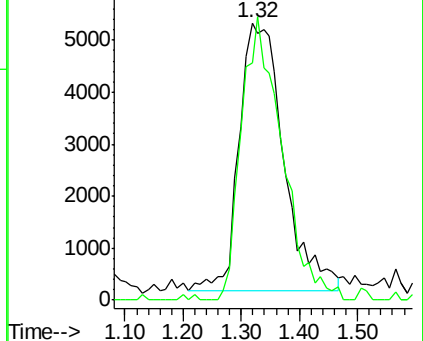
MMDadoda

3/5/2019 10:47:13 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 10.296 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061823.D

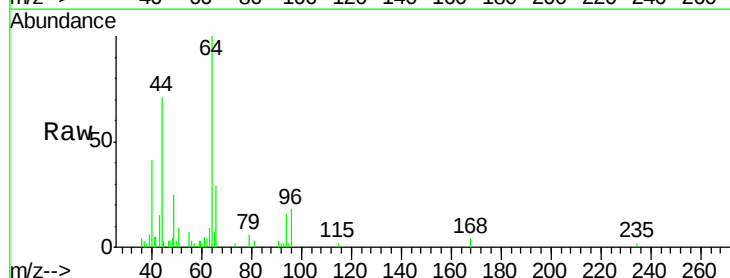
Acq: 4 Mar 2019 16:33

Tgt Ion: 64 Resp: 19012

Ion Ratio Lower Upper

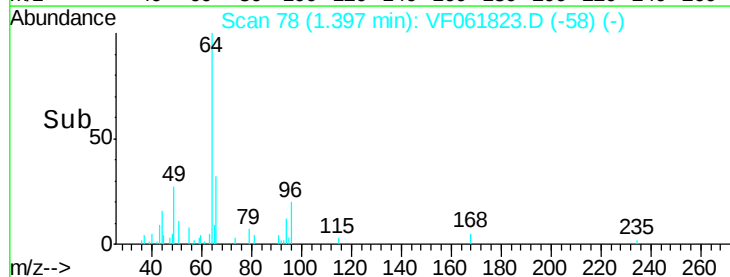
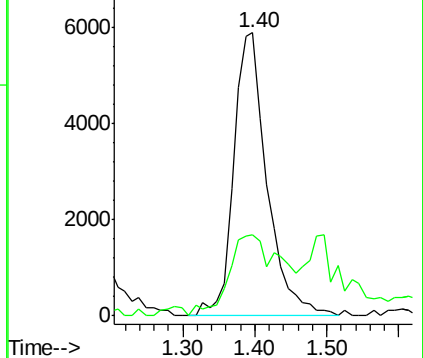
64 100

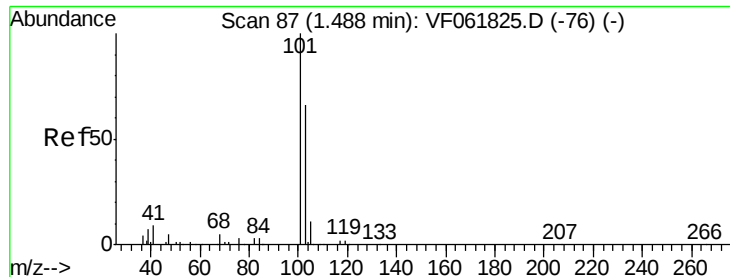
66 28.7 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 10.518 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:101 Resp: 47535

Ion Ratio Lower Upper

101 100

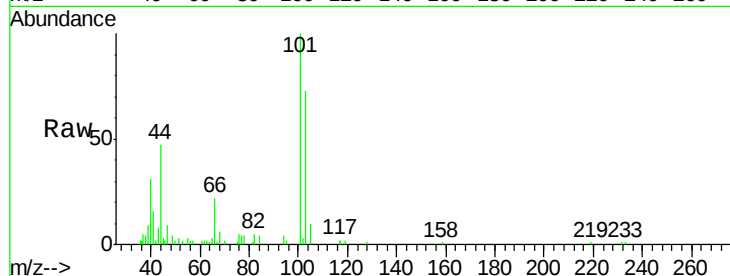
103 73.4 49.3 73.9

Manual Integrations

APPROVED

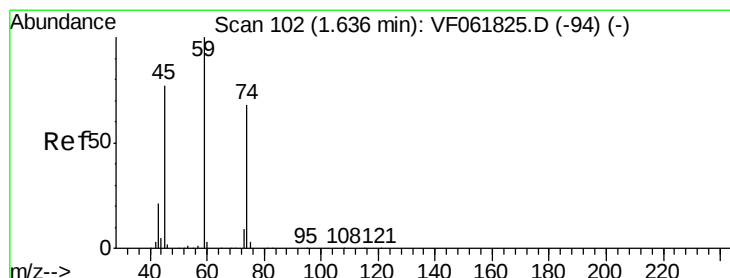
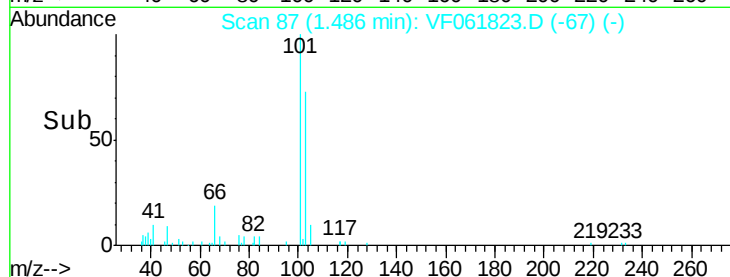
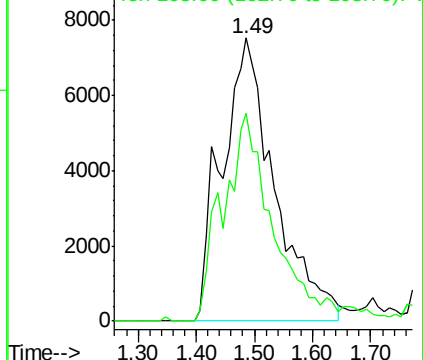
MMDadoda

3/5/2019 10:47:13 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 9.575 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.00 min

Lab File: VF061823.D

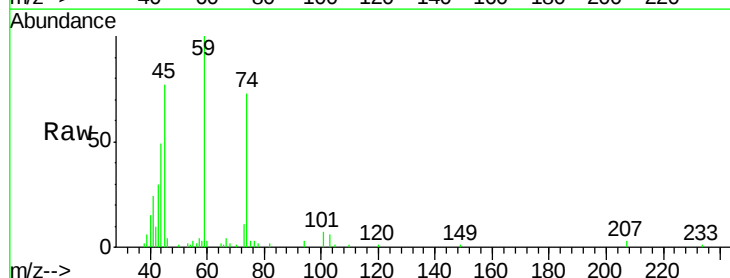
Acq: 4 Mar 2019 16:33

Tgt Ion: 74 Resp: 10906

Ion Ratio Lower Upper

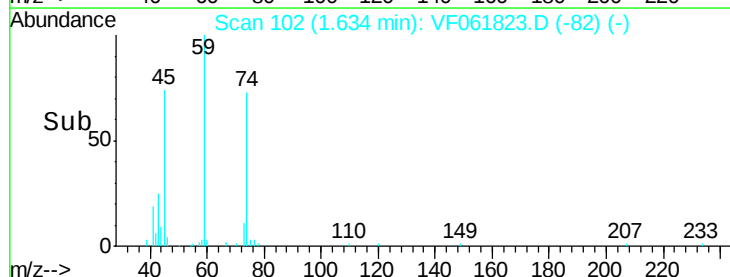
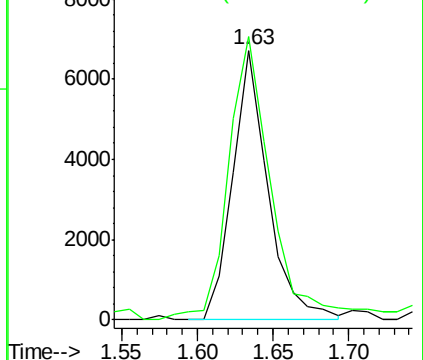
74 100

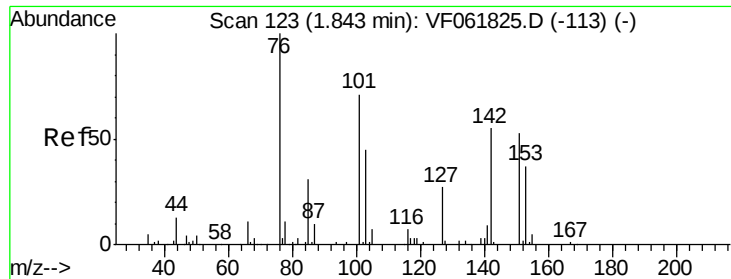
45 104.9 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





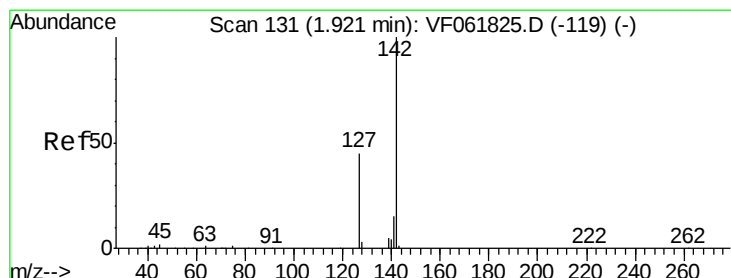
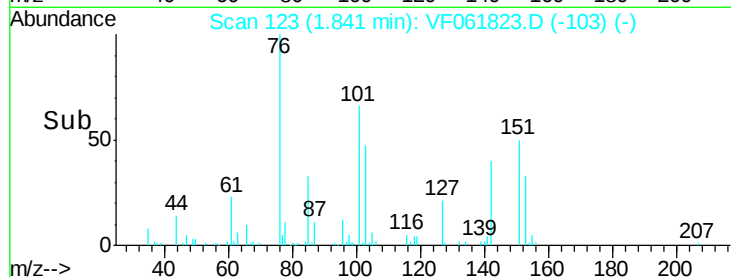
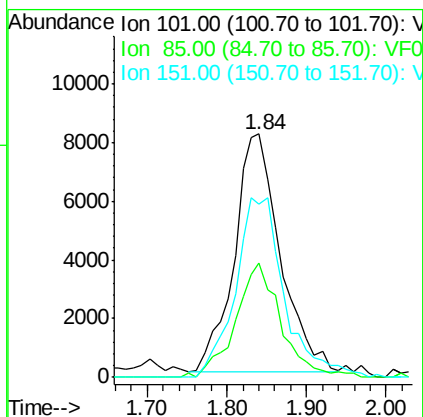
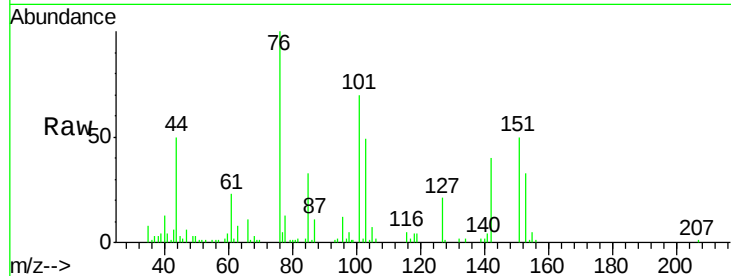
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.945 ug/l
 RT: 1.84 min Scan# 123
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
101	100		
85	47.0	29.8	44.6#
151	70.9	56.3	84.5

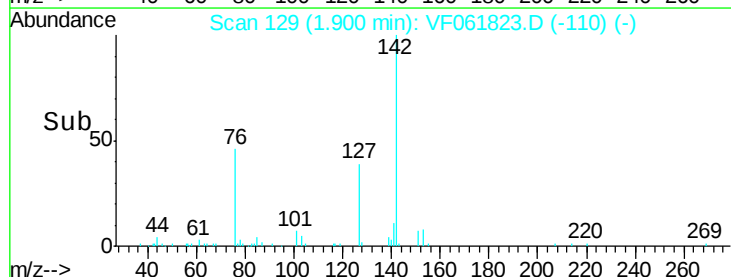
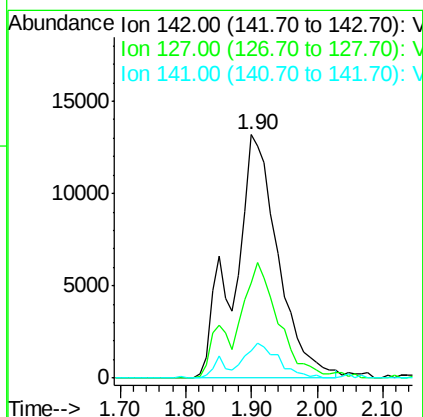
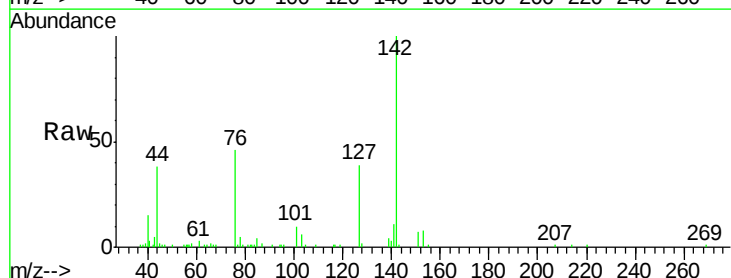
Manual Integrations
 APPROVED

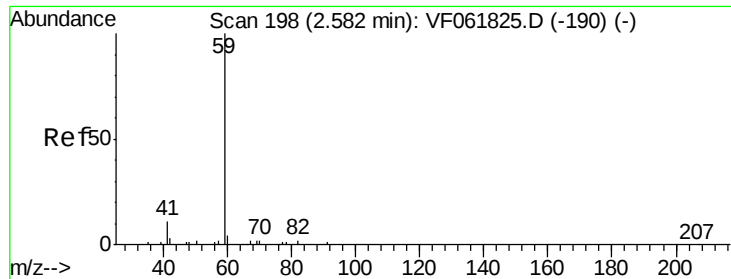
MMDadoda
 3/5/2019 10:47:13 AM



#10
 Methyl Iodide
 Concen: 9.811 ug/l m
 RT: 1.90 min Scan# 129
 Delta R.T. -0.01 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.0	36.6	55.0
141	11.3	11.0	16.6





#11

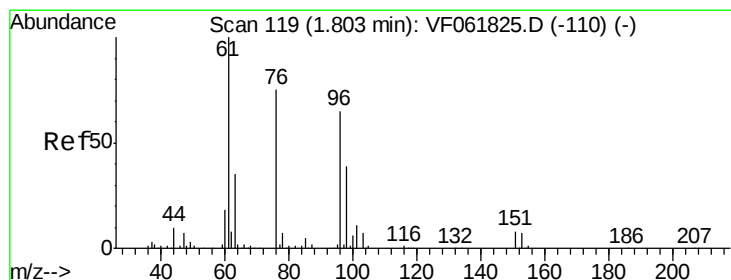
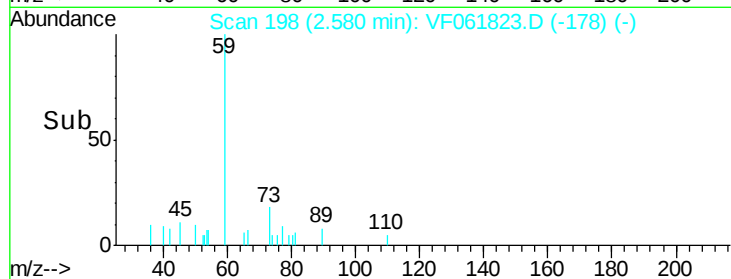
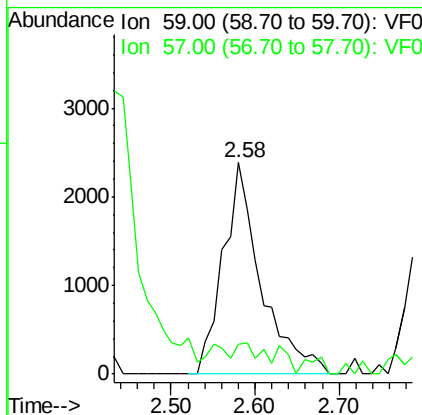
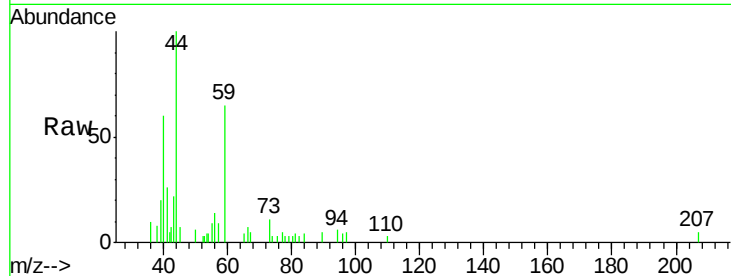
Tert butyl alcohol
Concen: 52.524 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampled :
VSTDIC010

Tot Ion	59	Resp	7457
Ion Ratio	100	Lower	Upper
57	13.9	12.5	18.7

Manual Integrations
APPROVED

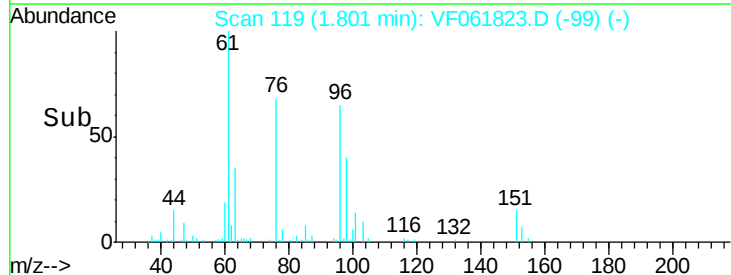
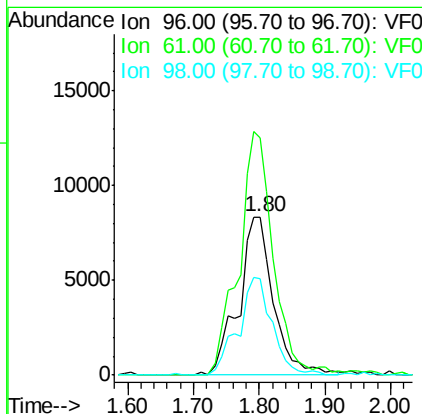
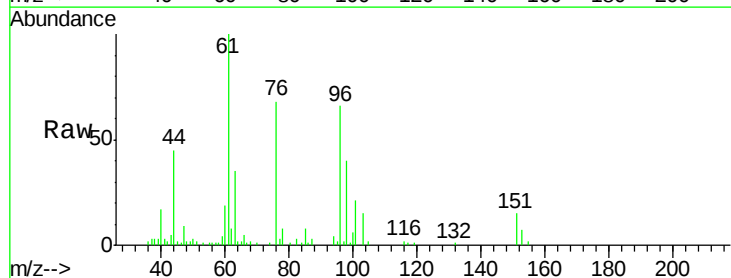
MMDadoda
3/5/2019 10:47:13 AM

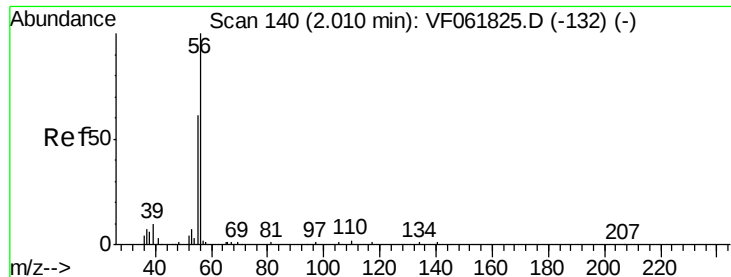


#12

1,1-Dichloroethene
Concen: 10.833 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	96	Resp	31055
Ion Ratio	100	Lower	Upper
61	150.6	122.6	184.0
98	60.8	47.2	70.8





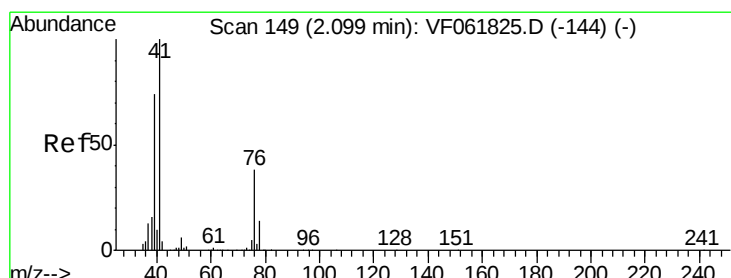
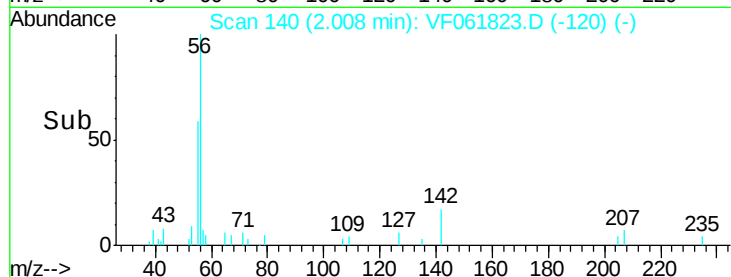
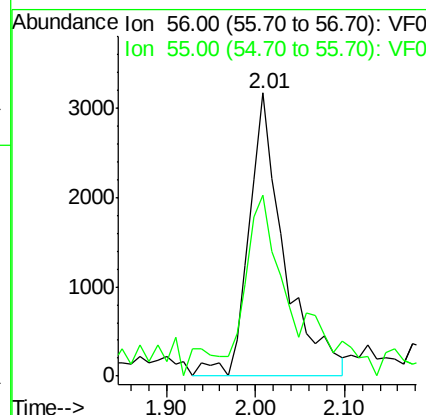
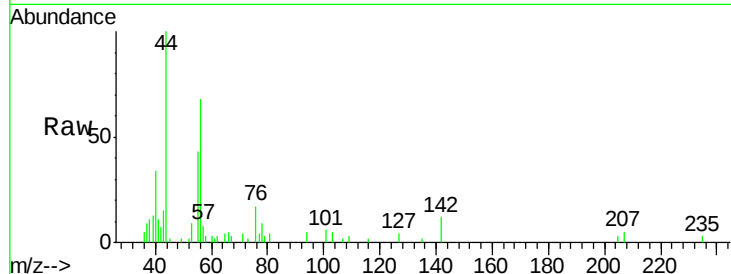
#13
Acrolein
Concen: 48.690 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
55	63.8	55.0	82.6

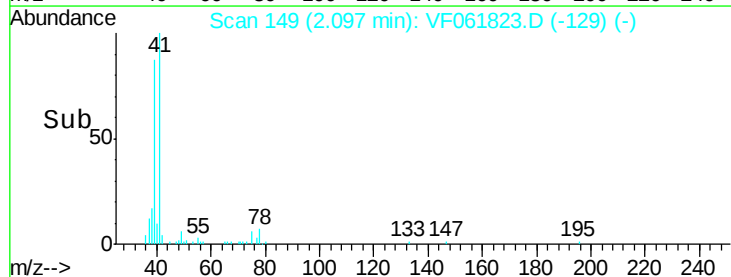
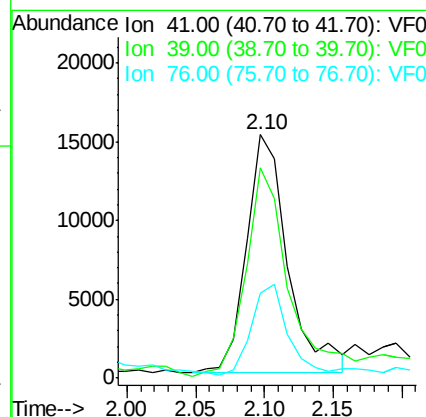
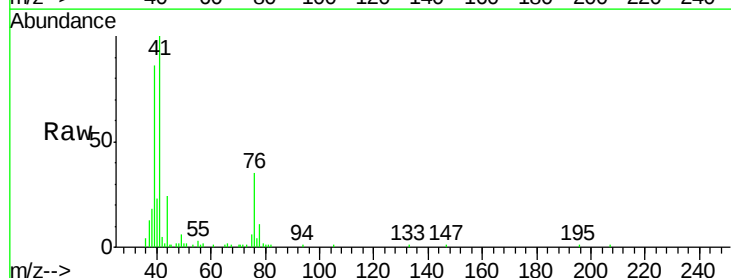
Manual Integrations
APPROVED

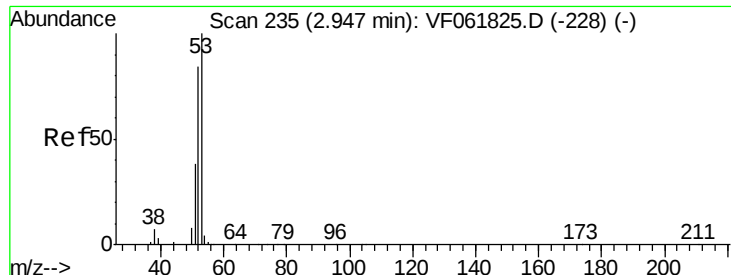
MMDadoda
3/5/2019 10:47:13 AM



#14
Allyl chloride
Concen: 8.996 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
41	100		
39	86.3	61.6	92.4
76	34.9	30.3	45.5





#15

Acrylonitrile

Concen: 39.918 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

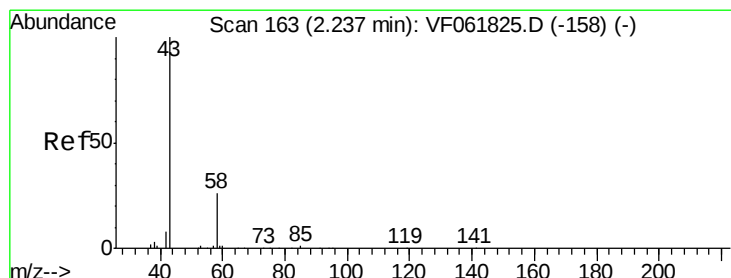
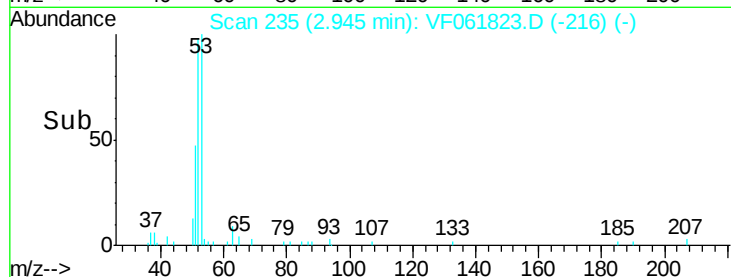
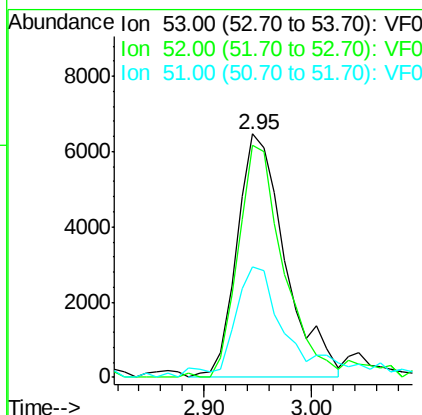
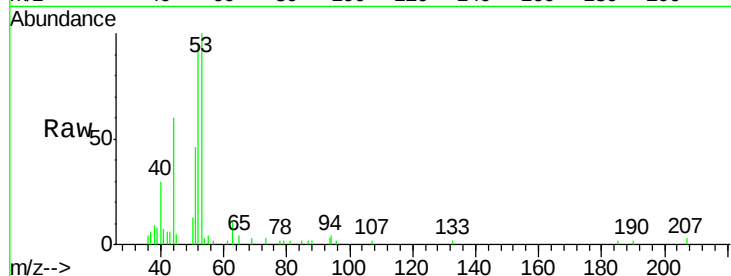
ClientSampleId :

VSTDIC010

Tot Ion	53	Resp	20102
Ion	Ratio	Lower	Upper
53	100		
52	95.3	64.6	97.0
51	45.6	29.8	44.8#

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#16

Acetone

Concen: 48.710 ug/l

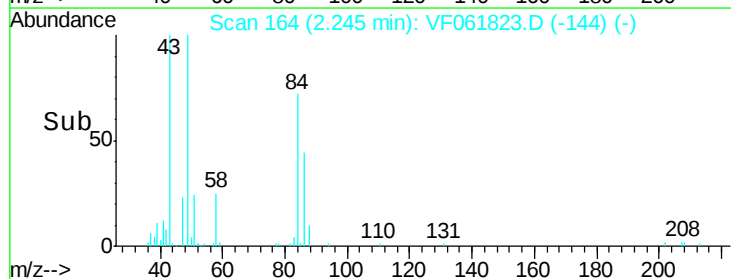
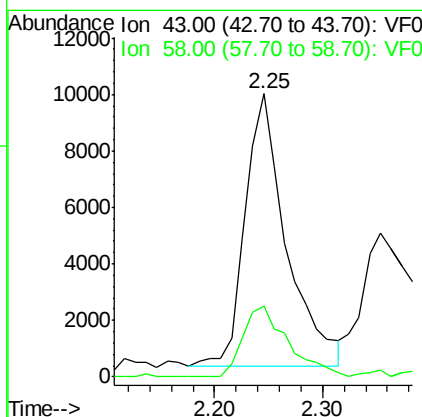
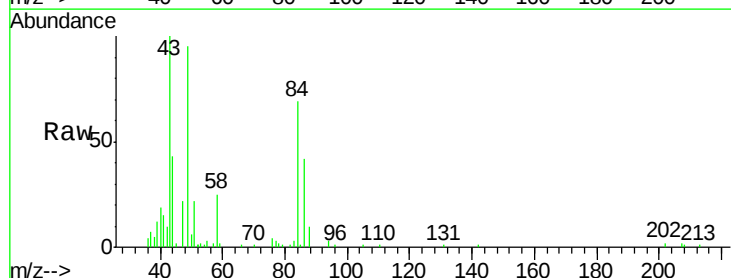
RT: 2.25 min Scan# 164

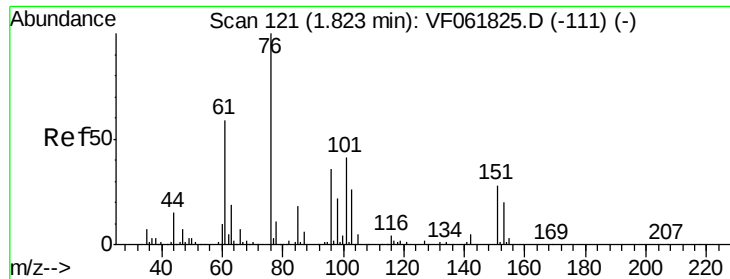
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion	43	Resp	25638
Ion	Ratio	Lower	Upper
43	100		
58	25.1	22.9	34.3





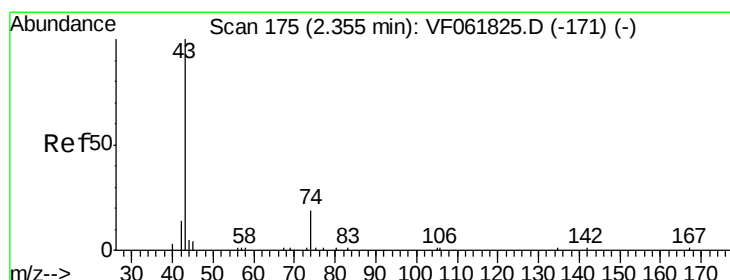
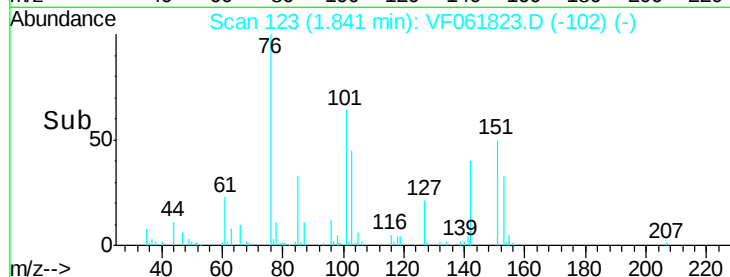
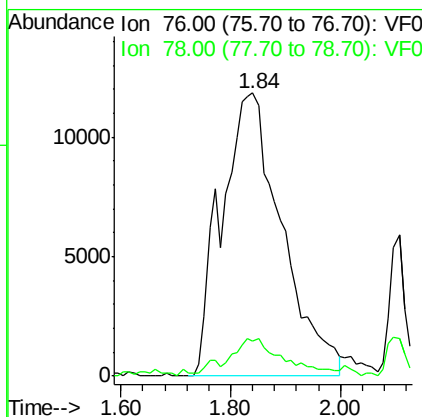
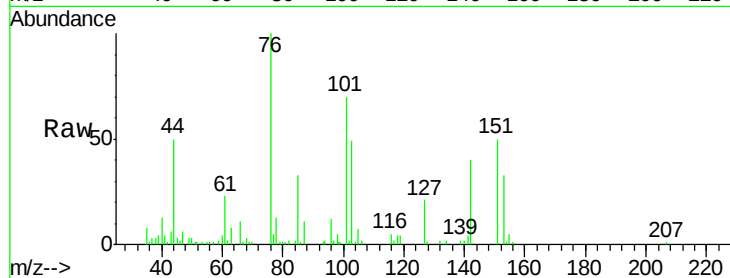
#17
Carbon Disulfide
Concen: 10.072 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 76 Resp: 90759
Ion Ratio Lower Upper
76 100
78 12.6 7.9 11.9#

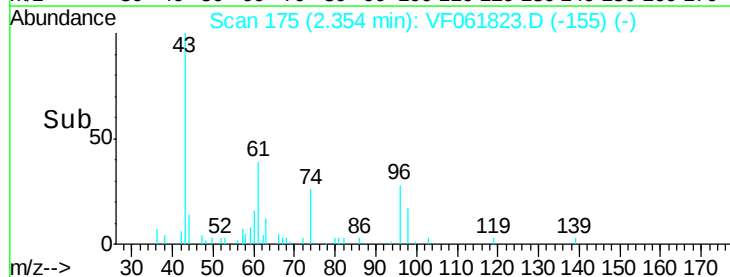
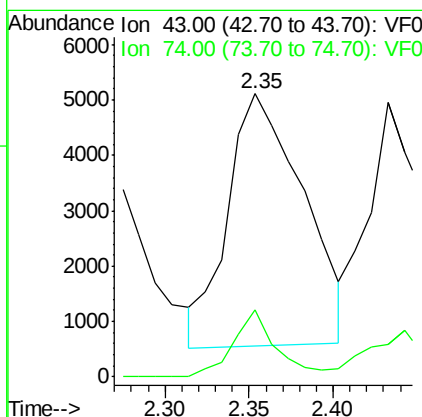
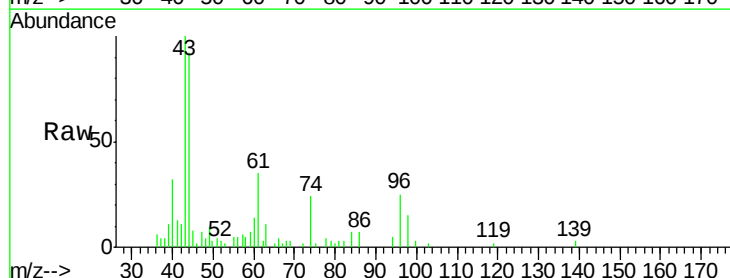
Manual Integrations
APPROVED

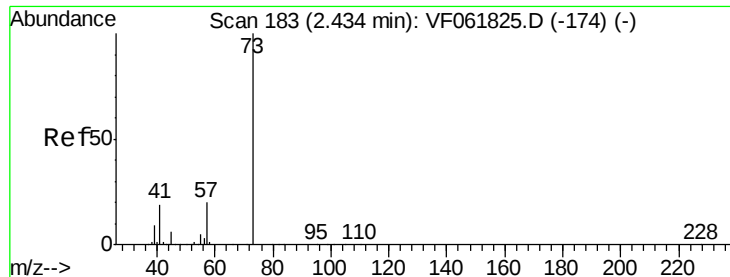
MMDadoda
3/5/2019 10:47:13 AM



#18
Methyl Acetate
Concen: 12.010 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion: 43 Resp: 14240
Ion Ratio Lower Upper
43 100
74 23.5 14.6 21.8#





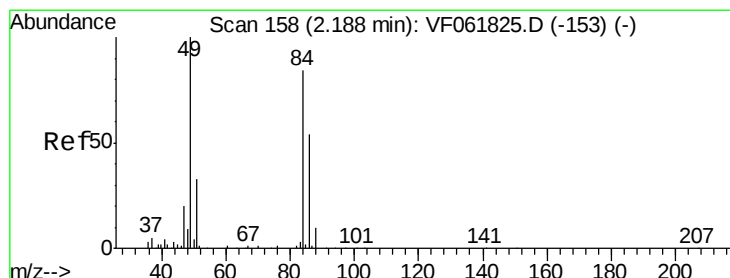
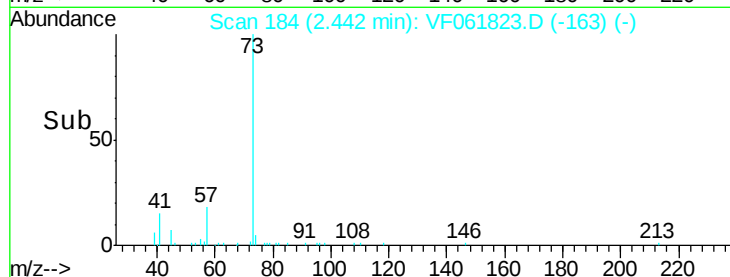
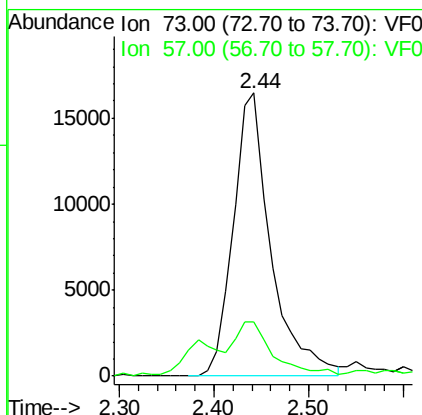
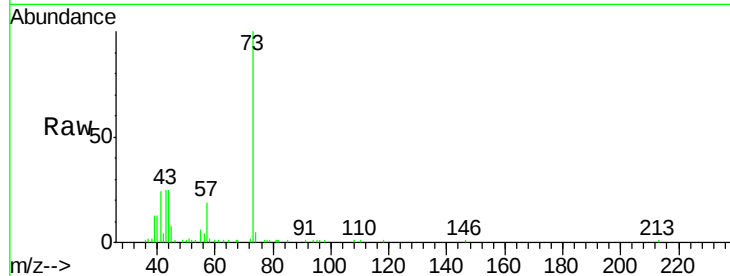
#19
Methvl tert-butvl Ether
Concen: 9.278 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 73 Resp: 45452
Ion Ratio Lower Upper
73 100
57 19.0 15.8 23.8

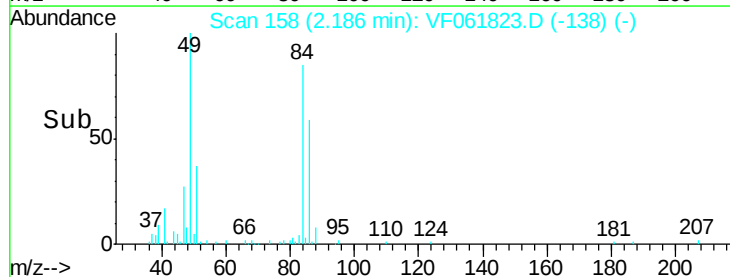
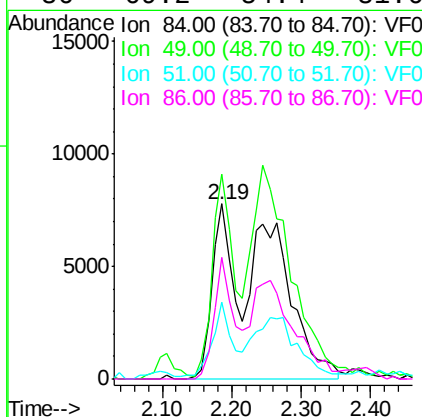
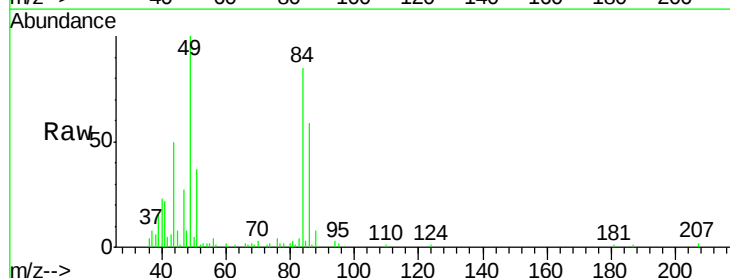
Manual Integrations
APPROVED

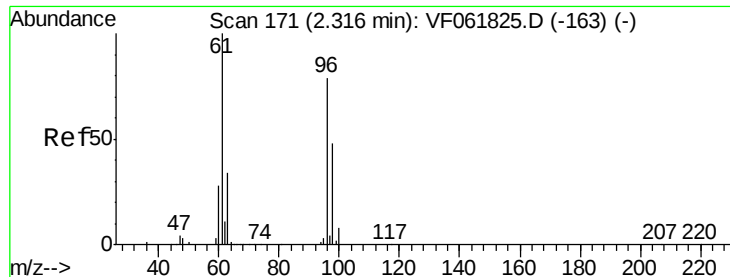
MMDadoda
3/5/2019 10:47:13 AM



#20
Methylene Chloride
Concen: 14.224 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion: 84 Resp: 45225
Ion Ratio Lower Upper
84 100
49 117.0 101.8 152.8
51 43.5 31.1 46.7
86 69.2 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 9.247 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

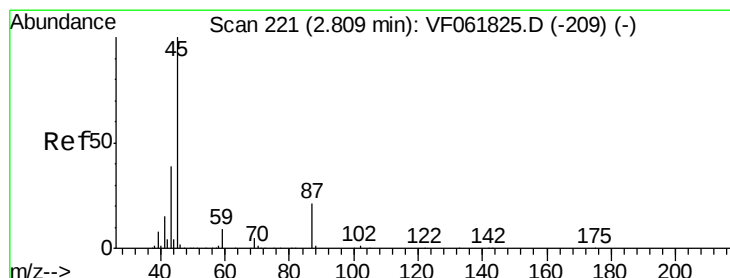
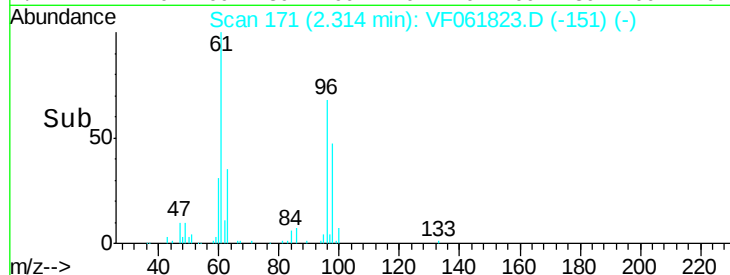
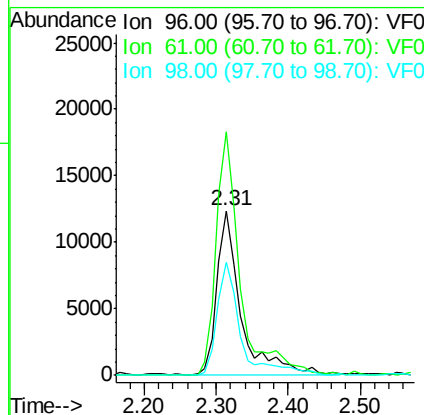
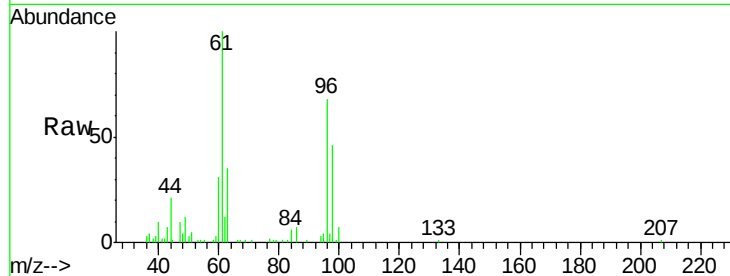
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	28817
Ion	Ratio	Lower	Upper
96	100		
61	147.8	108.2	162.4
98	68.6	52.2	78.2

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#22

Diisopropyl ether

Concen: 9.598 ug/l

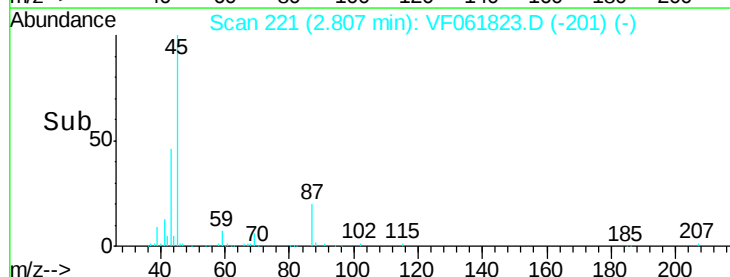
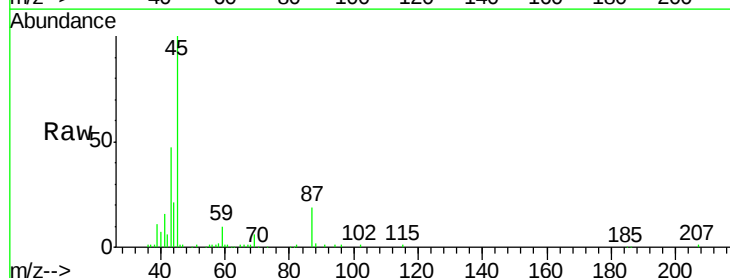
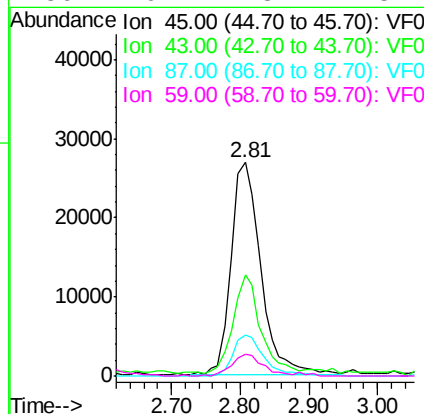
RT: 2.81 min Scan# 221

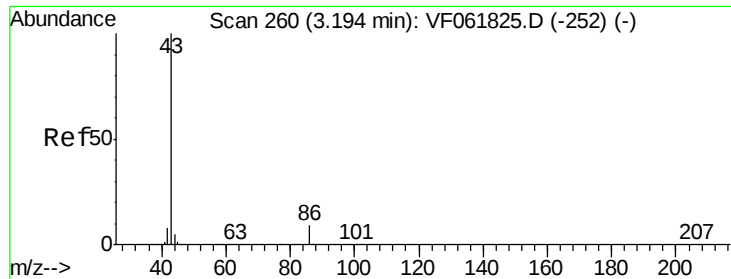
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	45	Resp:	81041
Ion	Ratio	Lower	Upper
45	100		
43	47.1	31.4	47.2
87	19.4	16.3	24.5
59	10.2	8.7	13.1





#23

Vinyl Acetate

Concen: 43.264 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 178428

Ion Ratio Lower Upper

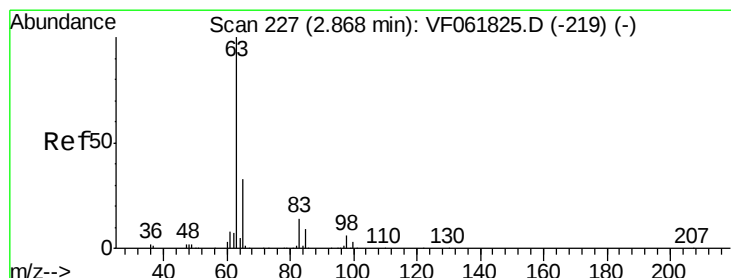
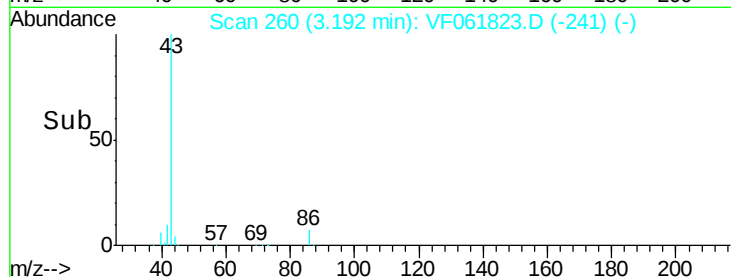
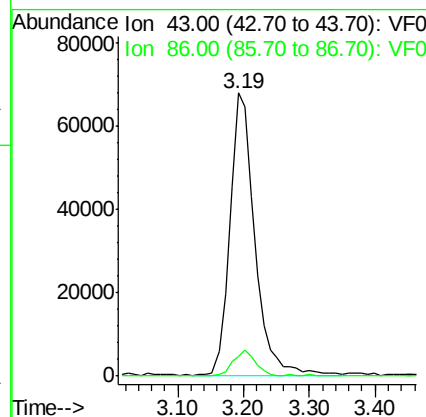
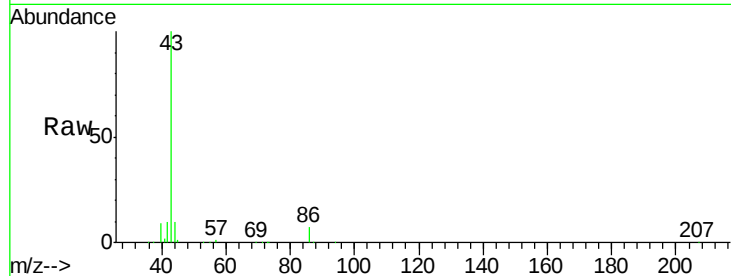
43 100

86 6.9 7.5 11.3#

Manual Integrations
APPROVED

MMDadoda

3/5/2019 10:47:13 AM



#24

1,1-Dichloroethane

Concen: 10.062 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

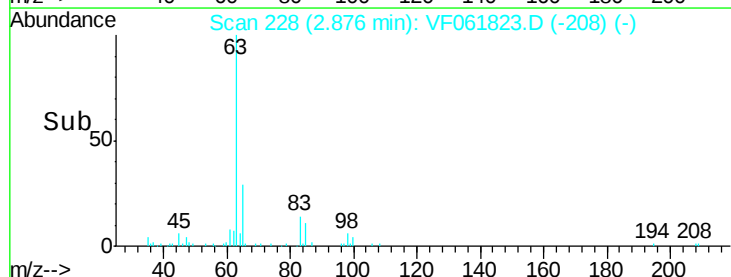
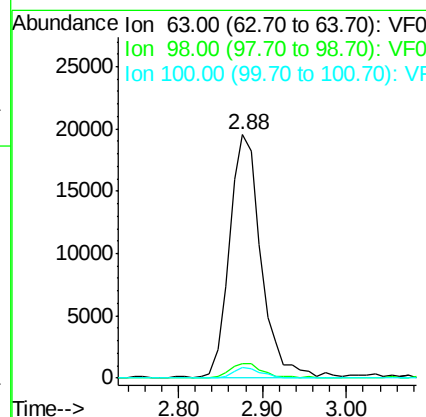
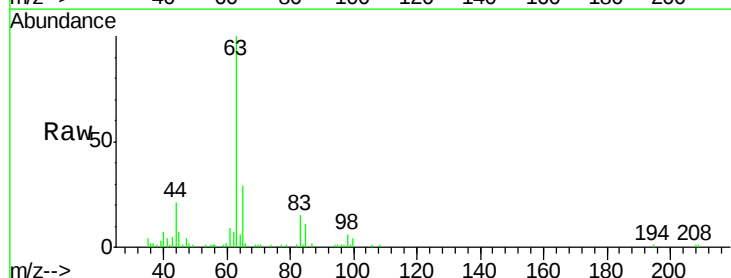
Tgt Ion: 63 Resp: 51415

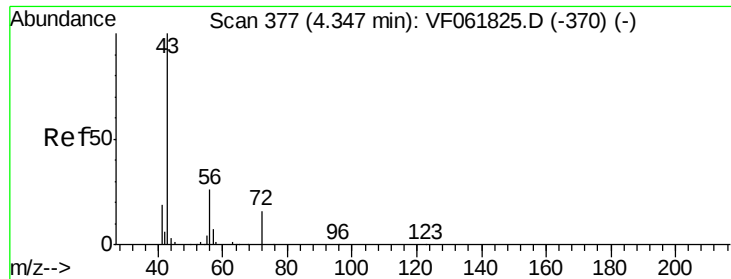
Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.3

100 4.3 1.8 5.4





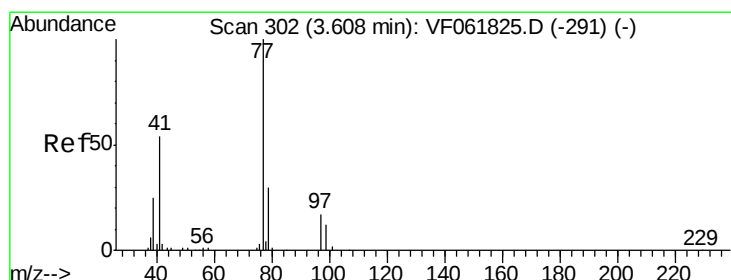
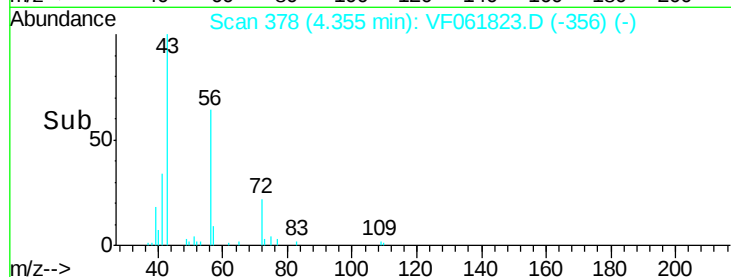
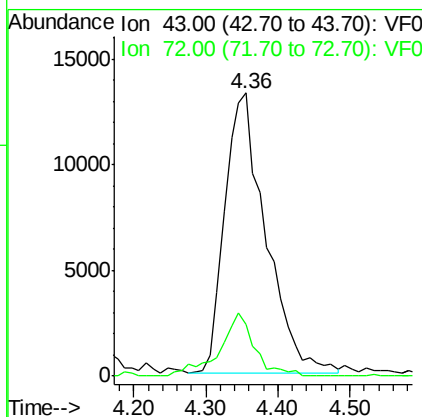
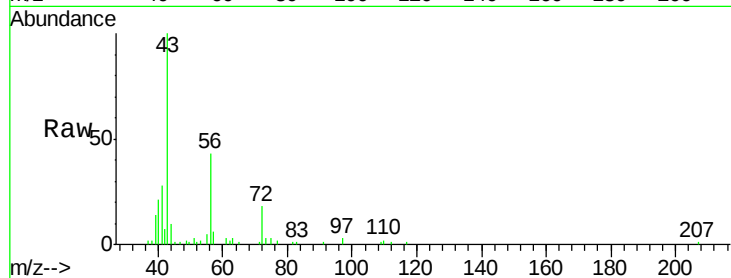
#25
2-Butanone
Concen: 45.416 ug/l
RT: 4.36 min Scan# 378
Delta R.T. 0.02 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 52214
Ion Ratio Lower Upper
43 100
72 18.1 17.1 25.7

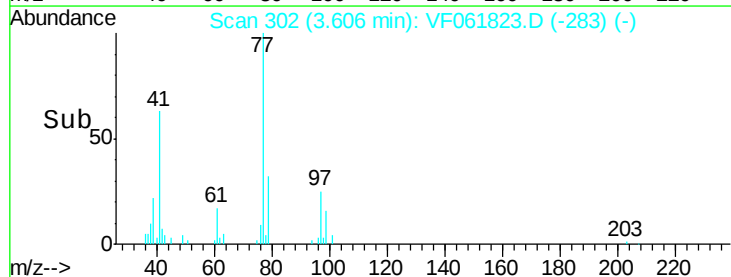
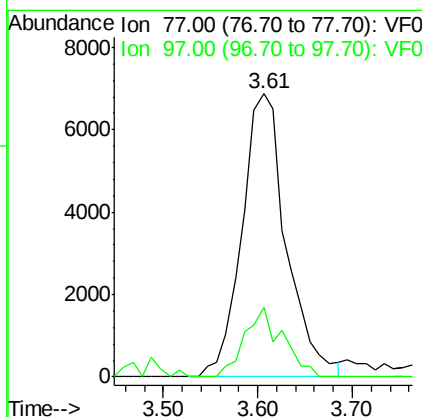
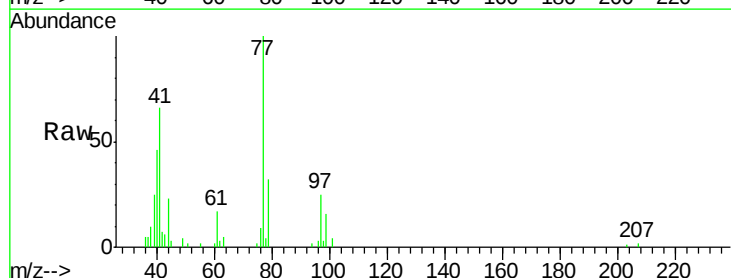
Manual Integrations
APPROVED

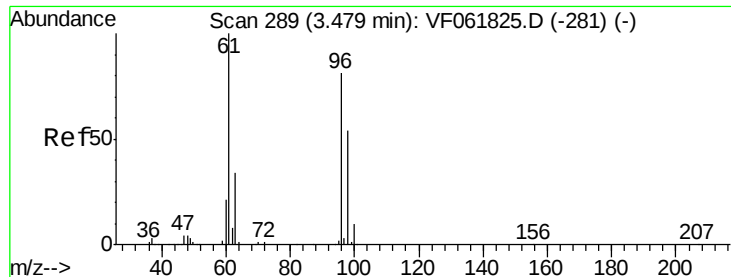
MMDadoda
3/5/2019 10:47:13 AM



#26
2,2-Dichloropropane
Concen: 10.358 ug/l
RT: 3.61 min Scan# 302
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion: 77 Resp: 22419
Ion Ratio Lower Upper
77 100
97 24.7 11.7 35.0





#27

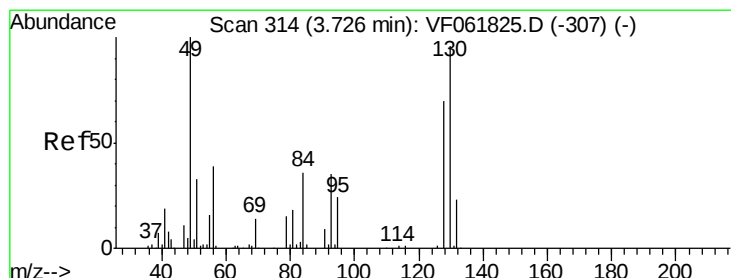
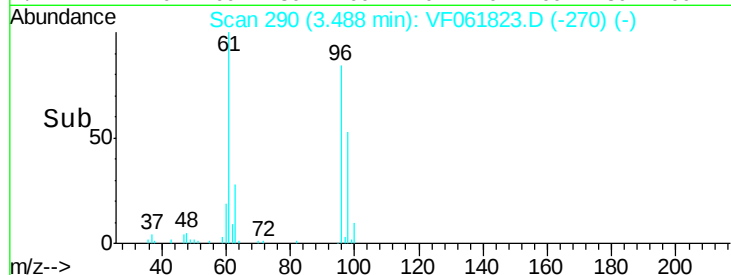
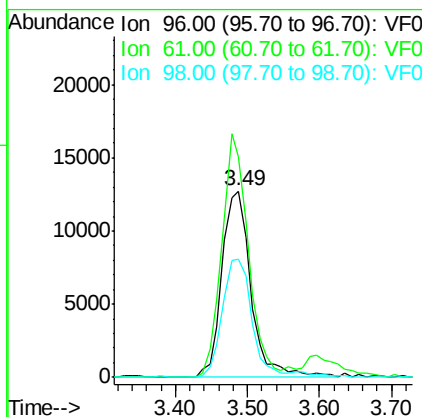
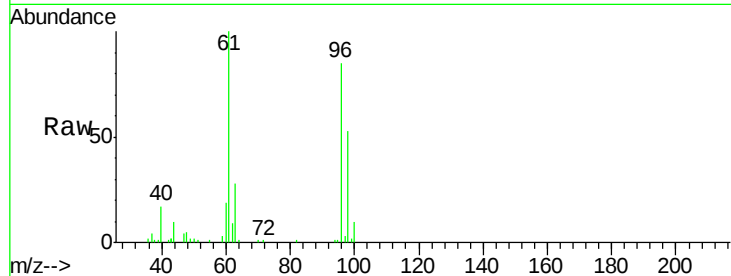
cis-1,2-Dichloroethene
Concen: 8.728 ug/l
RT: 3.49 min Scan# 290
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	118.2	0.0	241.6
98	63.1	0.0	130.2

Manual Integrations
APPROVED

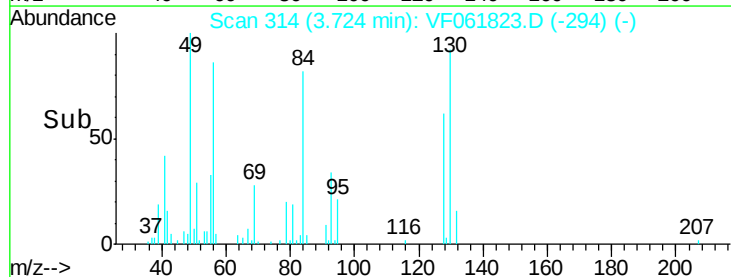
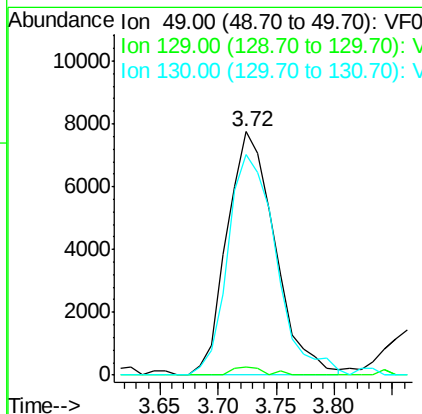
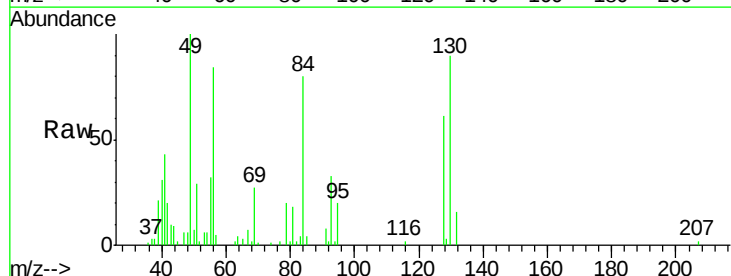
MMDadoda
3/5/2019 10:47:13 AM

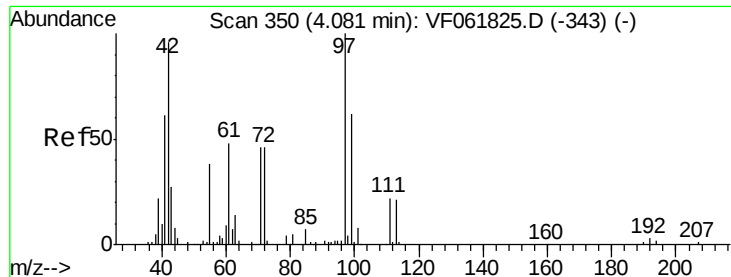


#28

Bromochloromethane
Concen: 9.029 ug/l
RT: 3.72 min Scan# 314
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.3	0.0	3.4
130	90.4	77.7	116.5





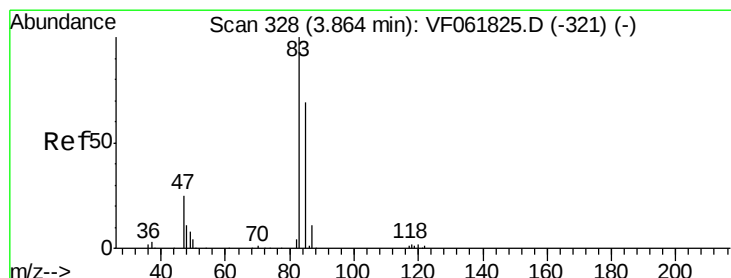
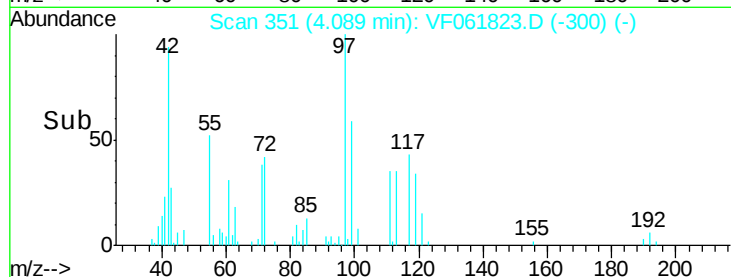
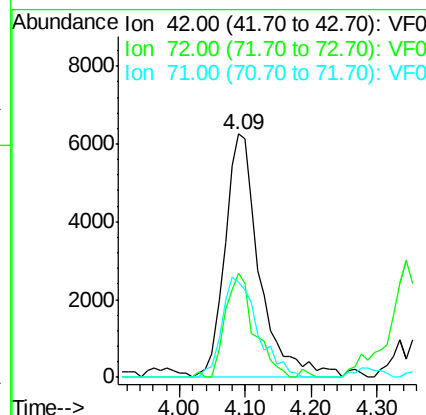
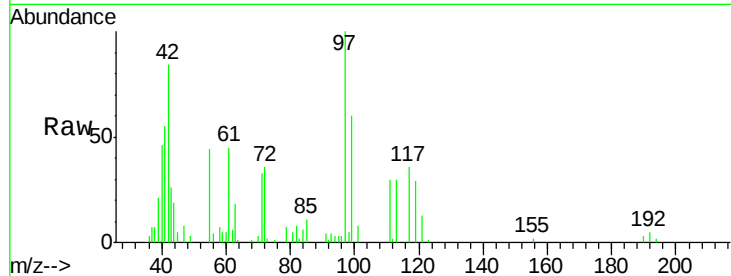
#29
Tetrahydrofuran
Concen: 43.784 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.0	35.2	52.8
71	41.9	32.9	49.3

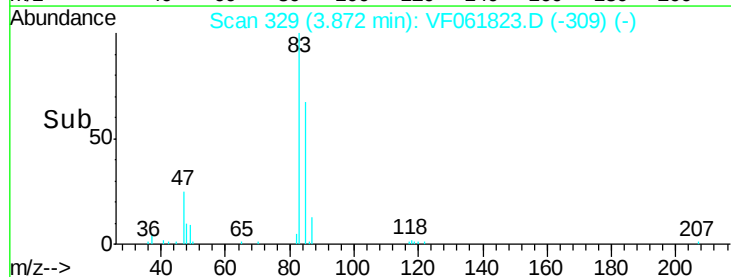
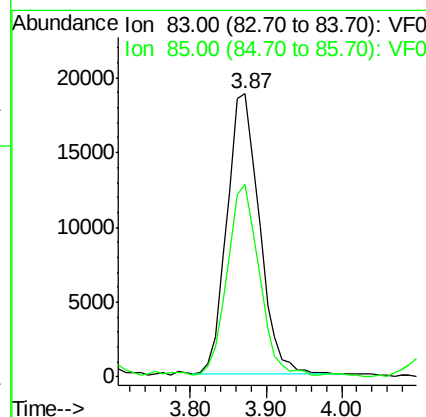
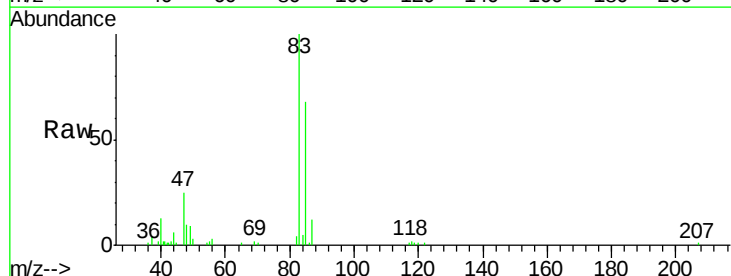
Manual Integrations
APPROVED

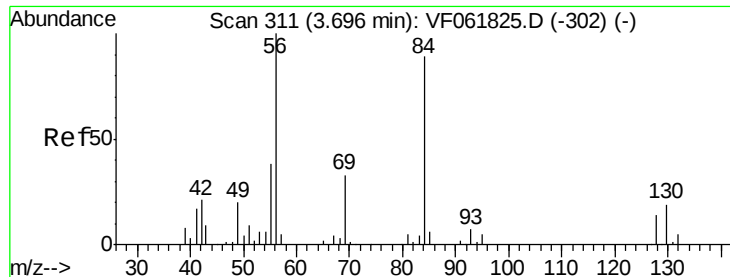
MMDadoda
3/5/2019 10:47:13 AM



#30
Chloroform
Concen: 9.670 ug/l
RT: 3.87 min Scan# 329
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.0	51.1	76.7





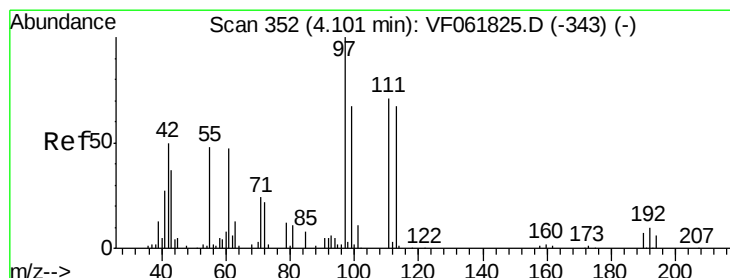
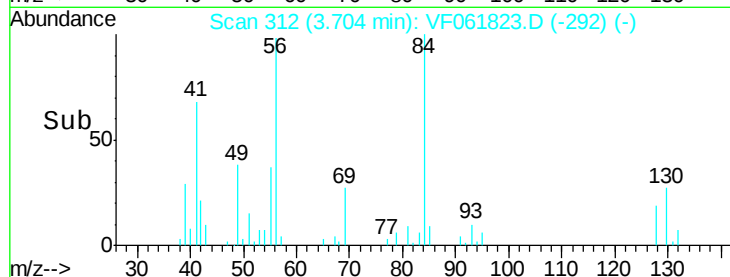
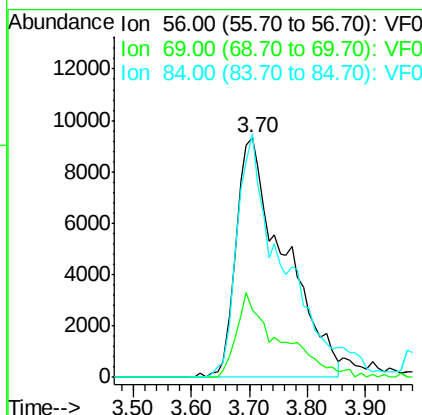
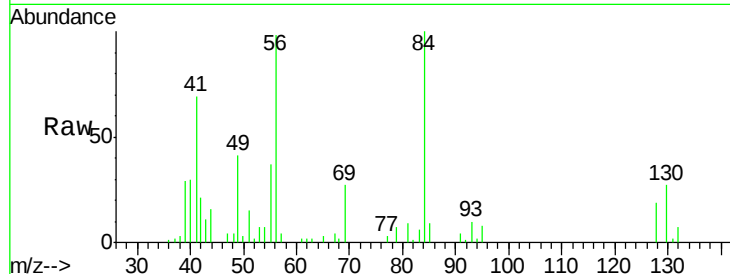
#31
Cyclohexane
Concen: 9.739 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	27.8	23.8	35.8	
84	101.6	68.6	103.0	

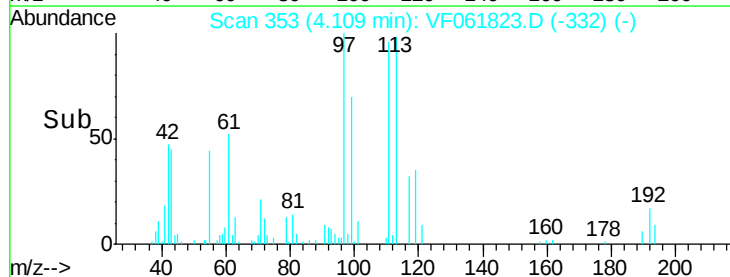
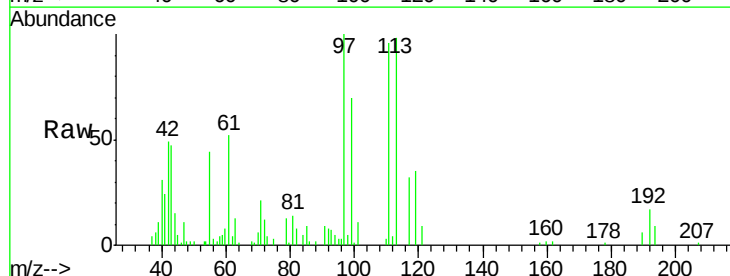
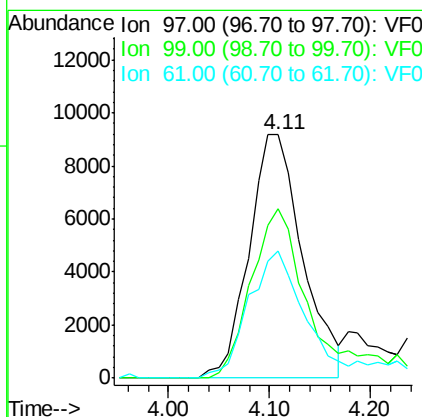
Manual Integrations
APPROVED

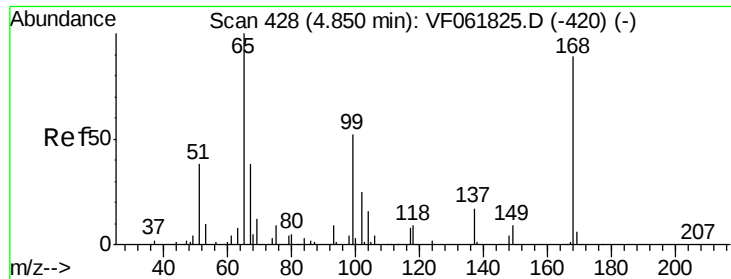
MMDadoda
3/5/2019 10:47:13 AM



#32
1,1,1-Trichloroethane
Concen: 8.888 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	69.7	52.2	78.2	
61	52.3	39.2	58.8	





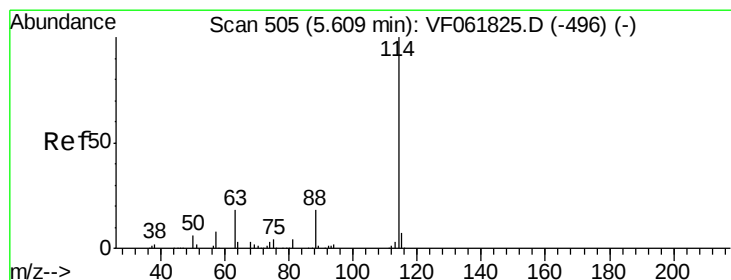
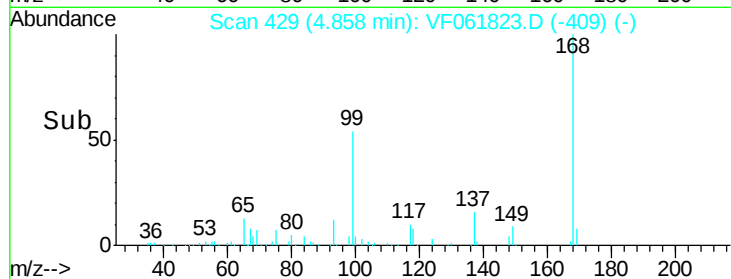
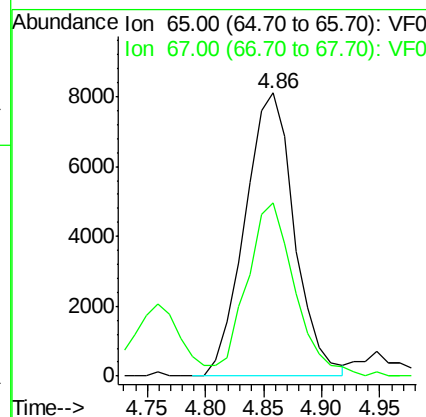
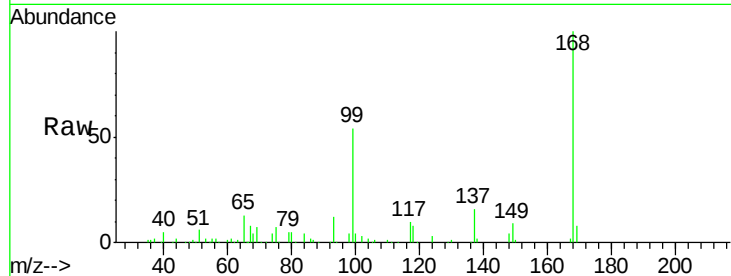
#33
 1,2-Dichloroethane-d4
 Concen: 9.749 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
65	100	23915		
67	61.0	0.0	104.0	

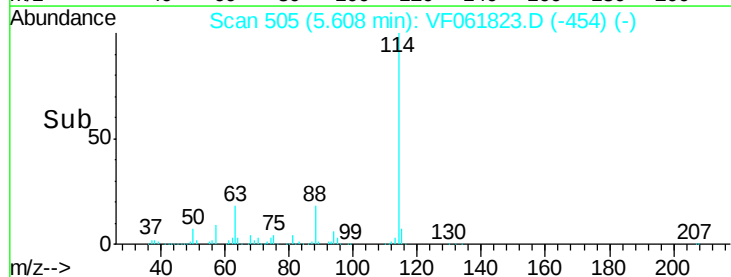
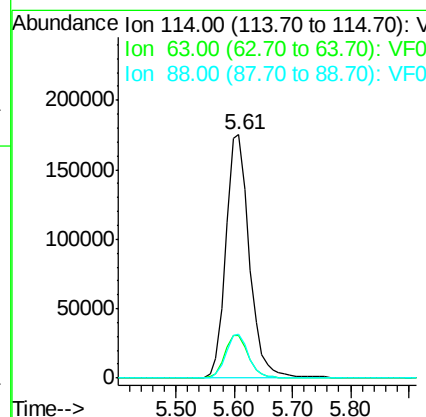
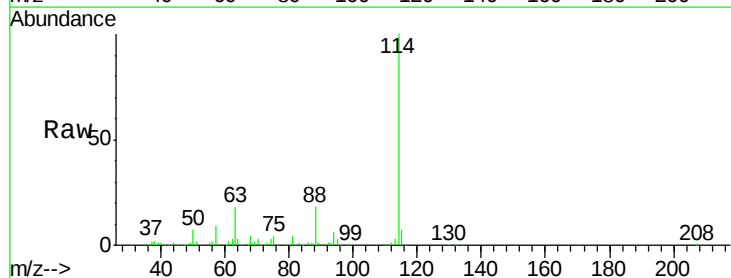
Manual Integrations
 APPROVED

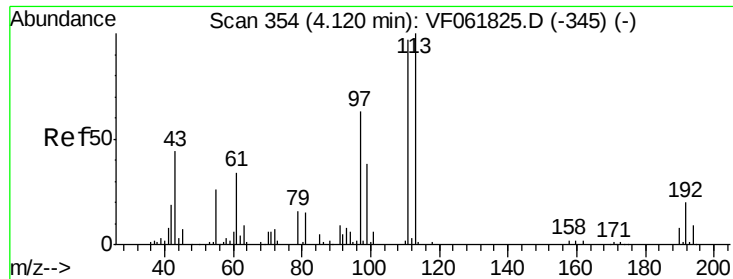
MMDadoda
 3/5/2019 10:47:13 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	491479		
63	17.6	0.0	36.6	
88	18.3	0.0	34.4	





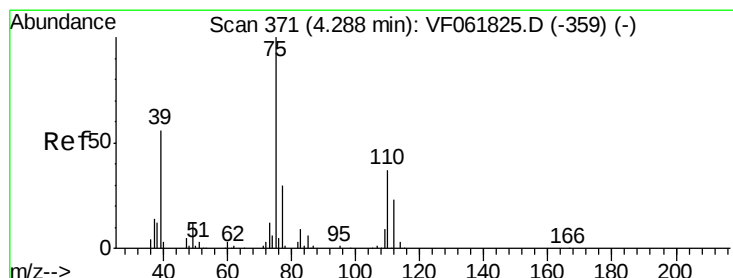
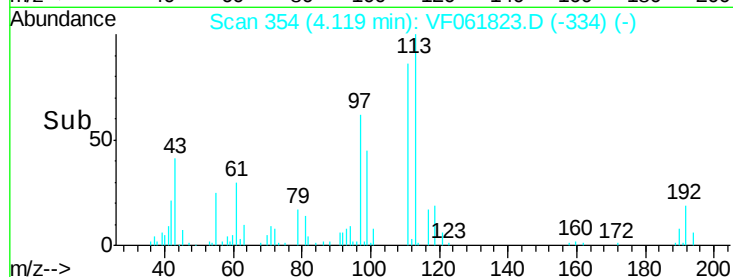
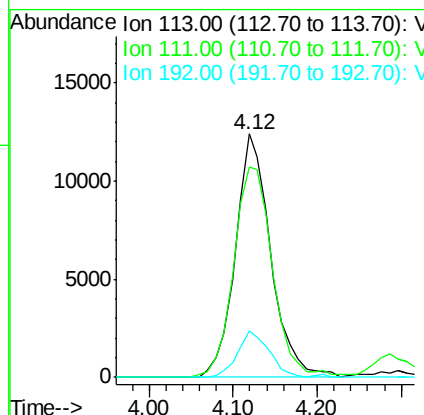
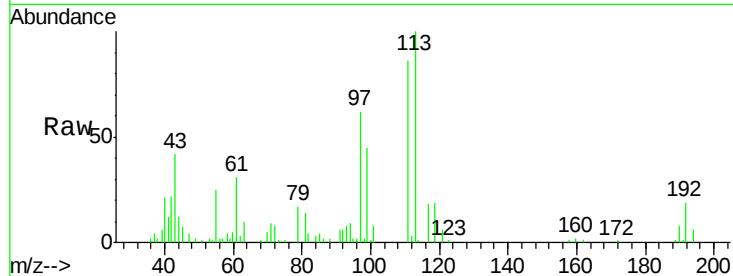
#35
Dibromofluoromethane
Concen: 9.947 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
113	100		
111	86.3	78.8	118.2
192	19.4	13.4	20.0

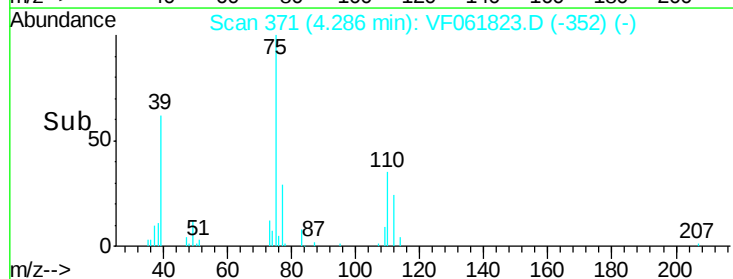
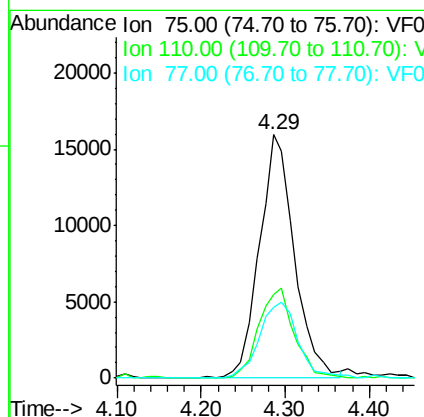
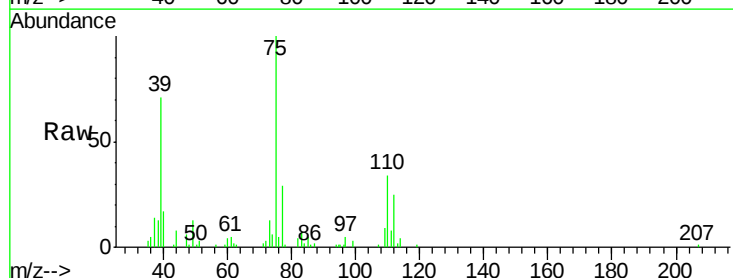
Manual Integrations
APPROVED

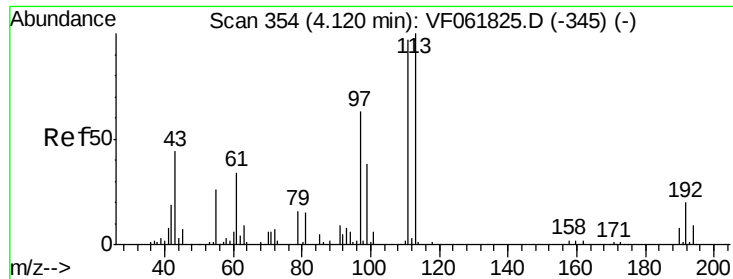
MMDadoda
3/5/2019 10:47:13 AM



#36
1,1-Dichloropropene
Concen: 9.555 ug/l
RT: 4.29 min Scan# 371
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.5	20.5	61.6
77	29.2	27.0	40.4





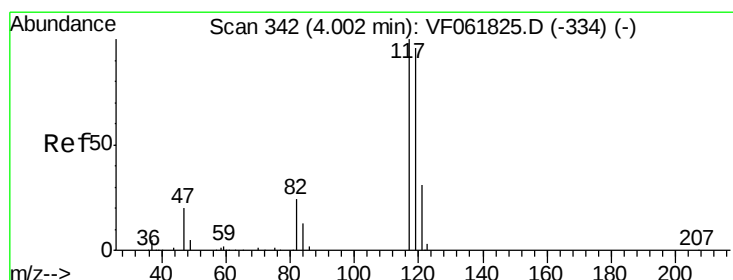
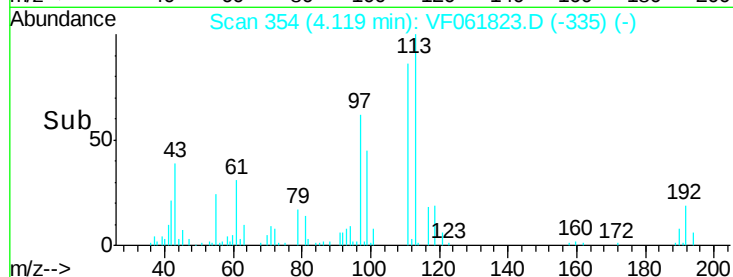
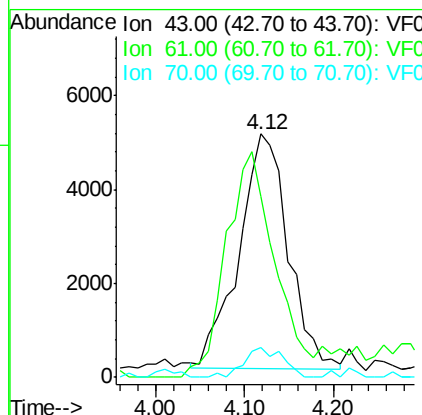
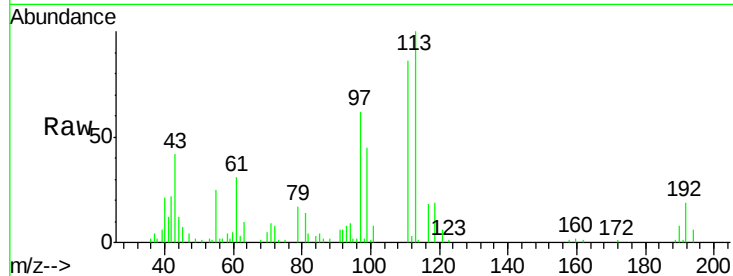
#37
Ethyl Acetate
Concen: 8.547 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	43	61	70	Ratio	100	74.5	12.2	Resp	19328	Lower	Upper
43	100										
61		74.5								45.7	68.5#
70			12.2							8.5	12.7

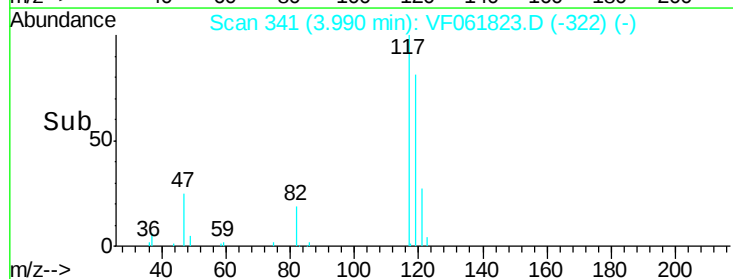
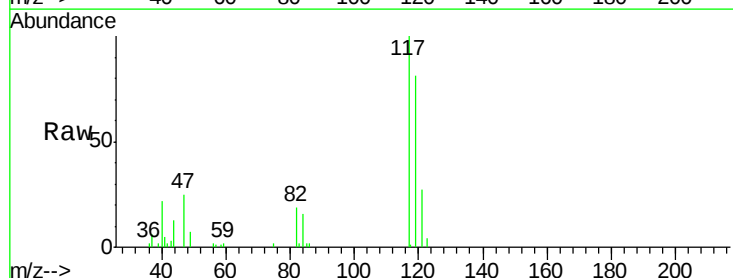
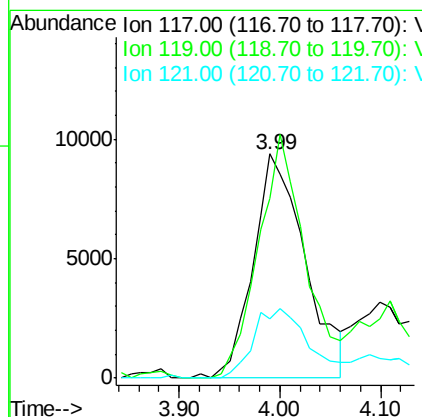
Manual Integrations
APPROVED

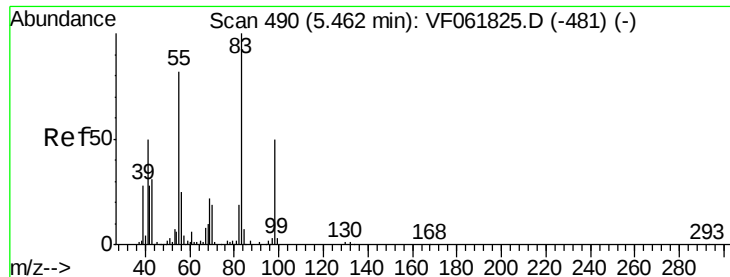
MMDadoda
3/5/2019 10:47:13 AM



#38
Carbon Tetrachloride
Concen: 9.975 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	117	119	121	Ratio	100	80.1	26.7	Resp	33534	Lower	Upper
117	100										
119		80.1								75.6	113.4
121			26.7							25.2	37.8





#39

Methvlcvclohexane

Concen: 9.704 ug/l

RT: 5.46 min Scan# 490

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

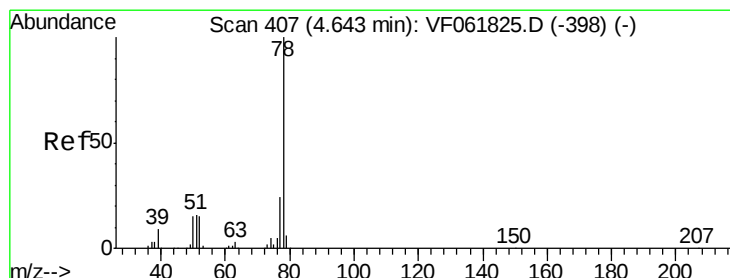
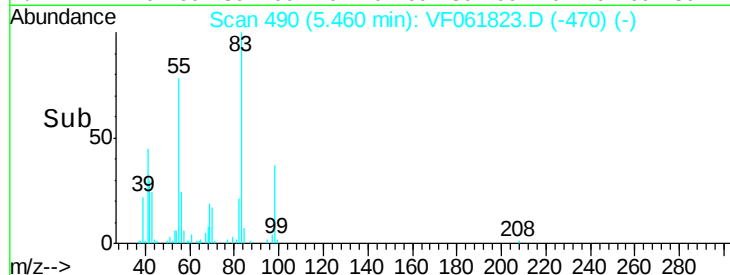
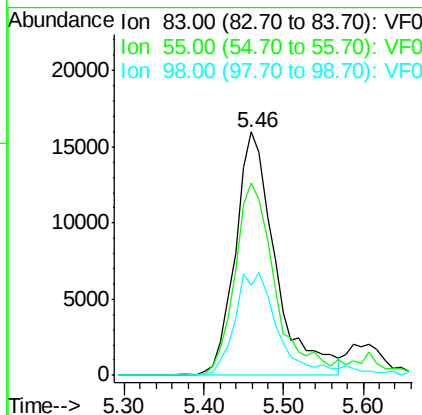
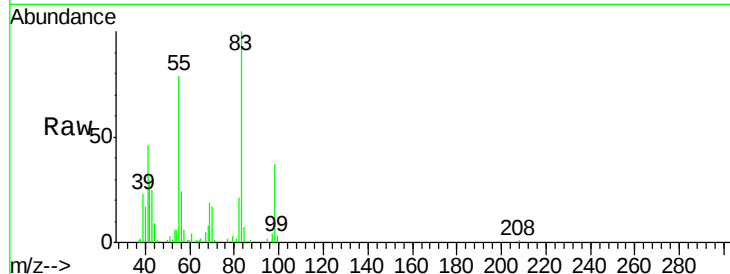
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	55877
Ion	Ratio	Lower	Upper
83	100		
55	78.8	66.6	99.8
98	36.9	40.4	60.6#

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#40

Benzene

Concen: 9.889 ug/l

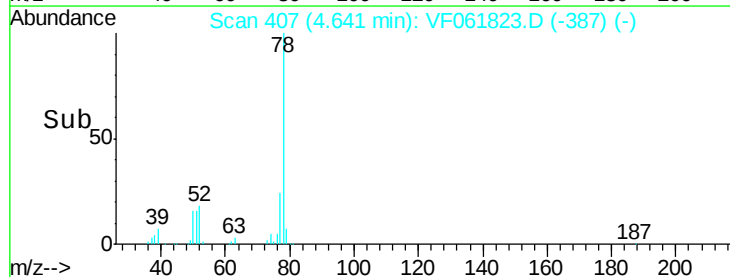
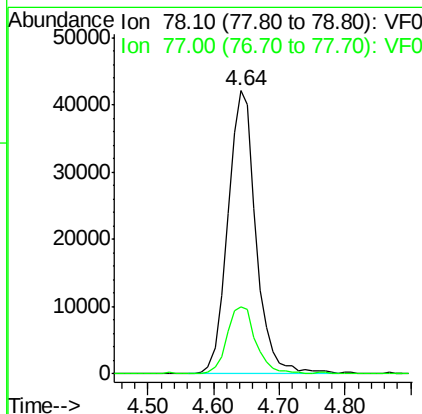
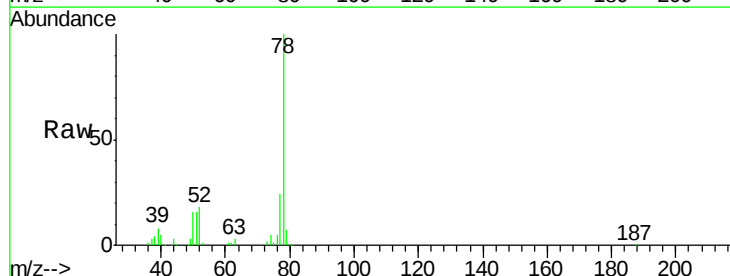
RT: 4.64 min Scan# 407

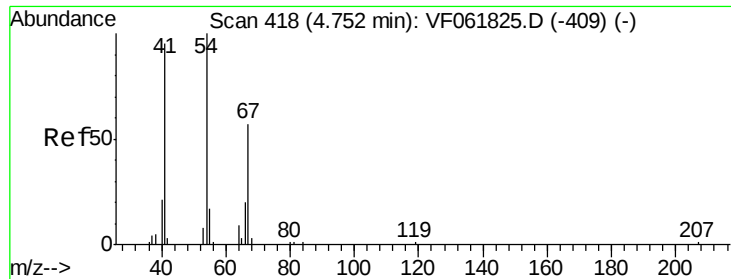
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	78	Resp:	125931
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





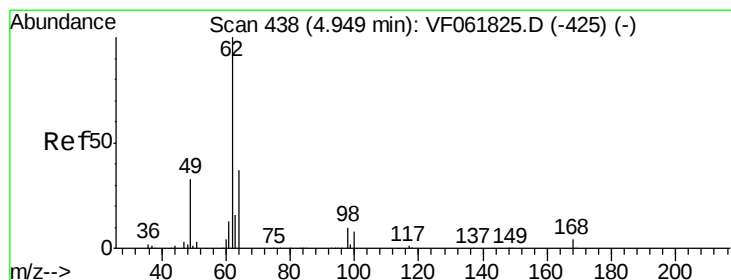
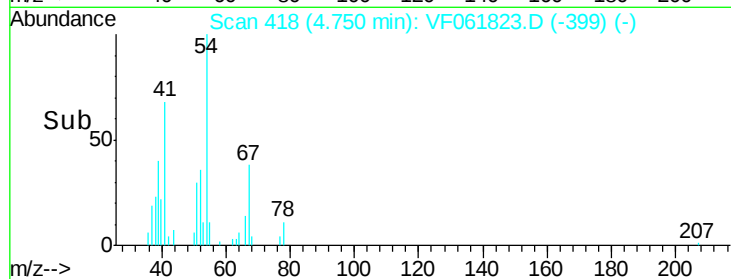
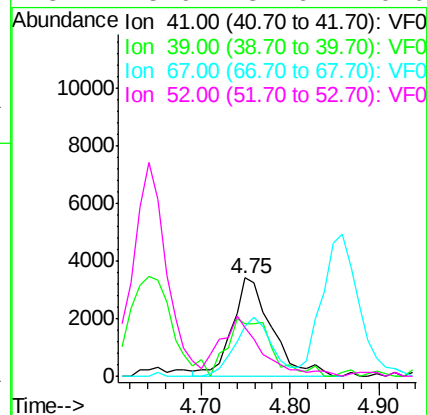
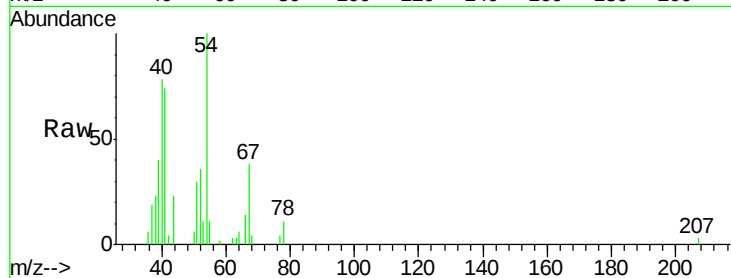
#41
Methacrylonitrile
Concen: 9.159 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	41	Resp	10592
Ion Ratio	Lower	Upper	
41	100		
39	53.7	45.3	67.9
67	51.0	49.3	73.9
52	48.9	32.6	49.0

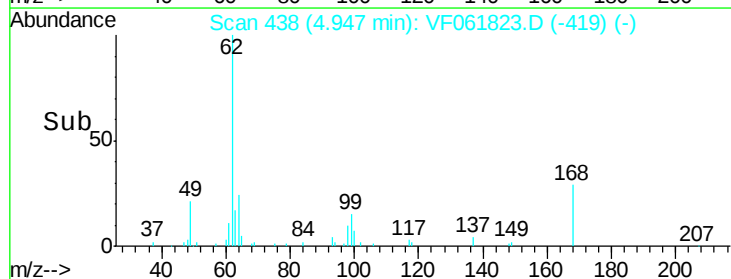
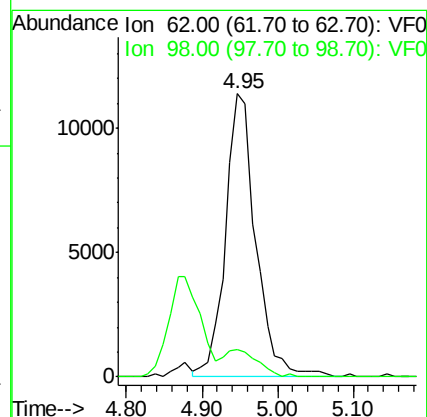
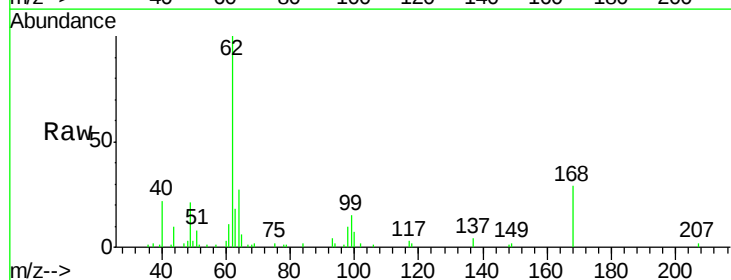
Manual Integrations
APPROVED

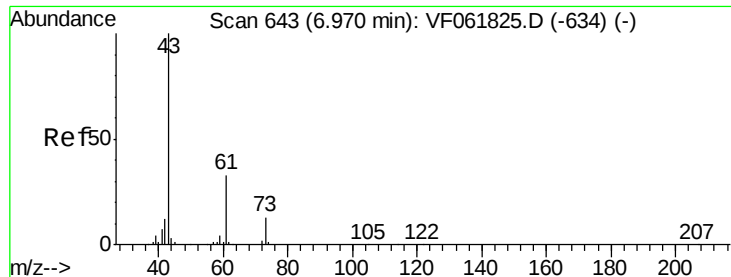
MMDadoda
3/5/2019 10:47:13 AM



#42
1,2-Dichloroethane
Concen: 10.352 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	62	Resp	31535
Ion Ratio	Lower	Upper	
62	100		
98	9.9	0.0	26.0





#43

Isopropyl Acetate

Concen: 8.686 ug/l

RT: 6.97 min Scan# 643

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

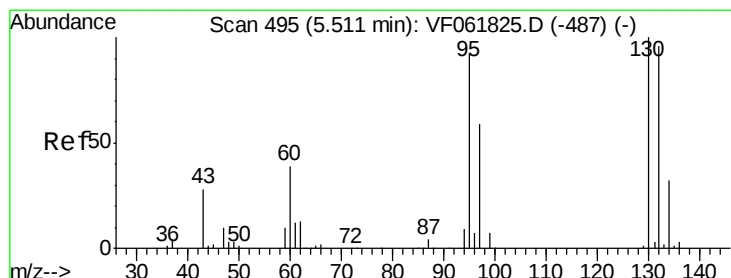
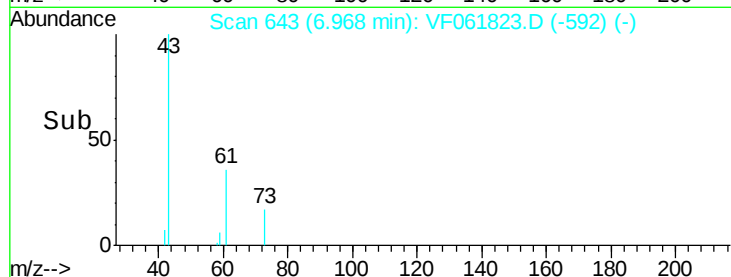
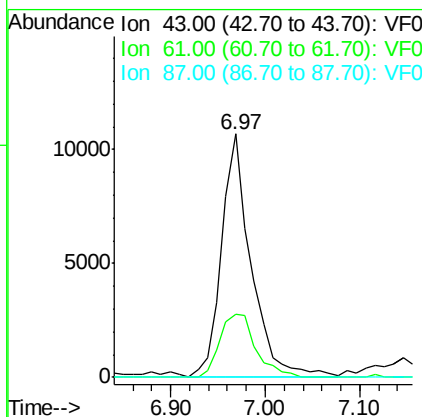
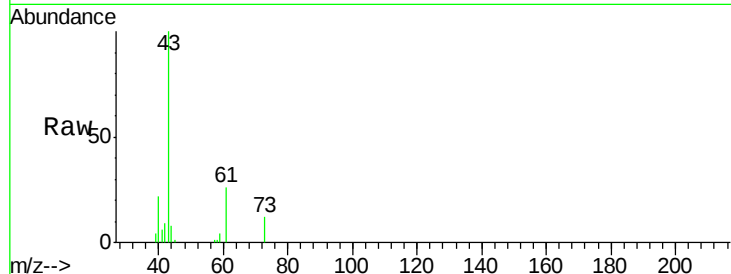
ClientSampleId :

VSTDIC010

Tot Ion:	43	Resp:	23251
Ion	Ratio	Lower	Upper
43	100		
61	26.0	25.8	38.6
87	0.0	0.4	0.6

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#44

Trichloroethene

Concen: 9.285 ug/l

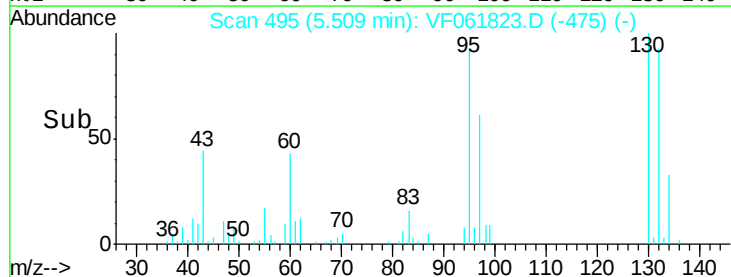
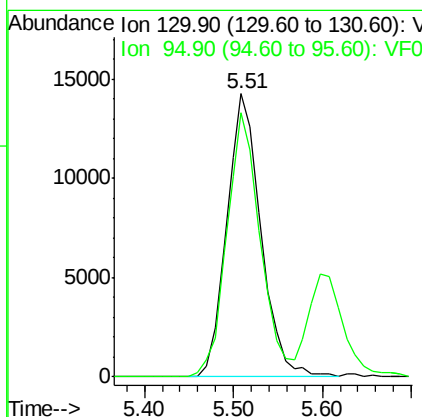
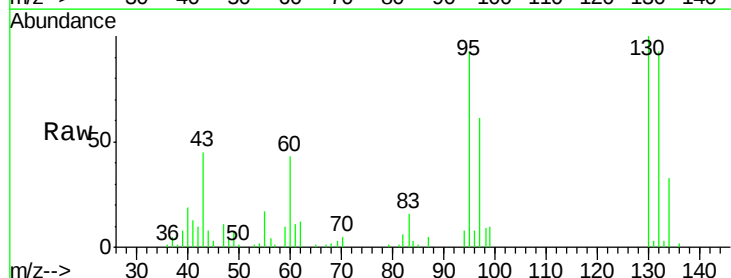
RT: 5.51 min Scan# 495

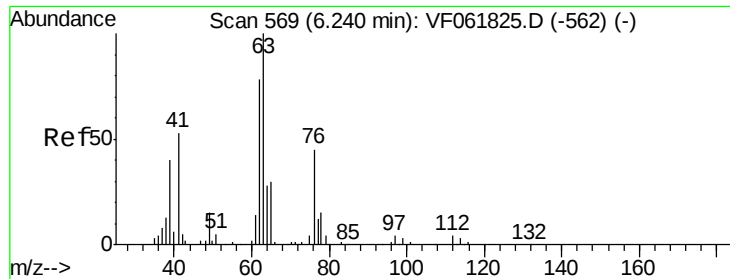
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	130	Resp:	38237
Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	179.4





#45

1,2-Dichloropropane

Concen: 9.083 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 27959

Ion Ratio Lower Upper

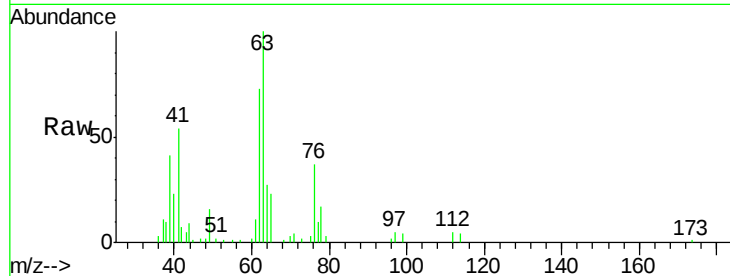
63 100

65 23.3 24.9 37.3#

Manual Integrations
APPROVED

MMDadoda

3/5/2019 10:47:13 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.24

12000

10000

8000

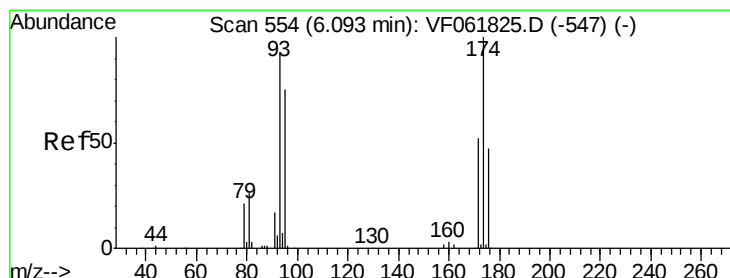
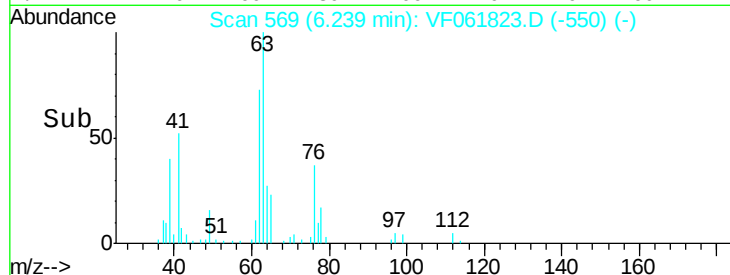
6000

4000

2000

0

Time--> 6.10 6.20 6.30 6.40



#46

Dibromomethane

Concen: 9.711 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

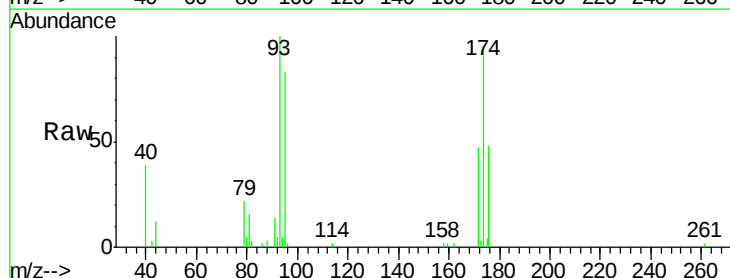
Tgt Ion: 93 Resp: 18406

Ion Ratio Lower Upper

93 100

95 82.7 69.0 103.6

174 94.9 99.3 148.9#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

10000

8000

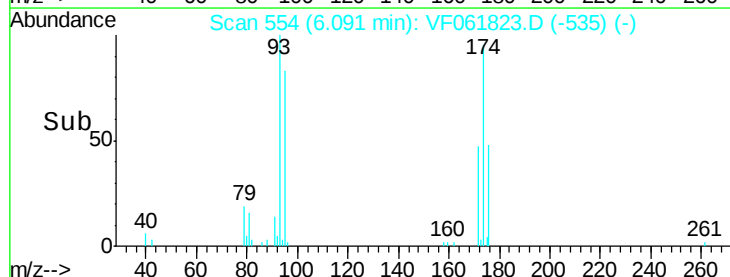
6000

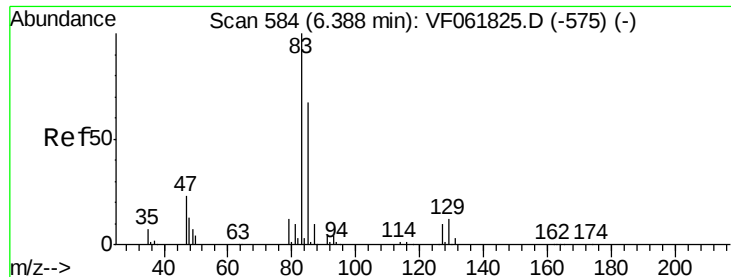
4000

2000

0

Time--> 6.00 6.10 6.20





#47

Bromodichloromethane

Concen: 9.751 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

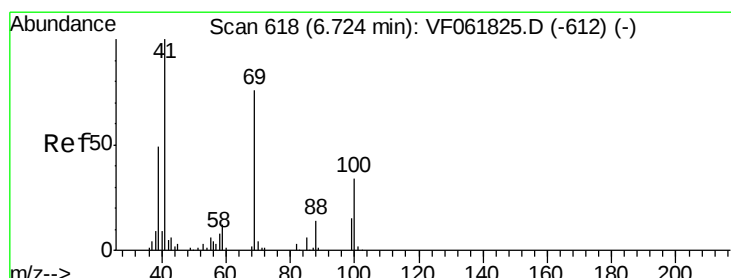
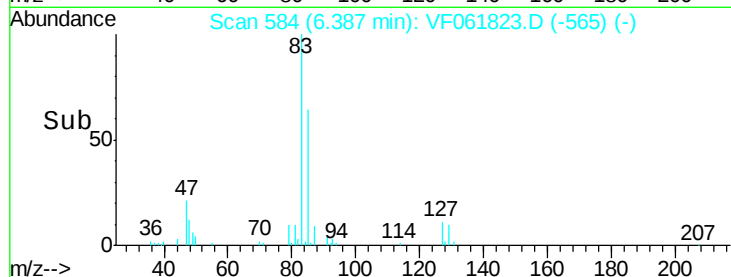
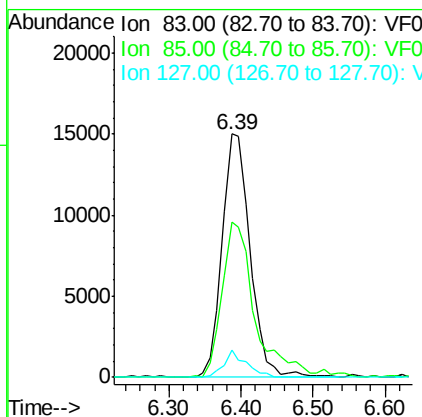
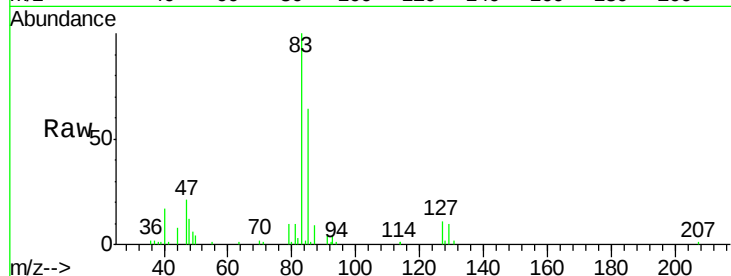
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	40471
Ion	Ratio	Lower	Upper
83	100		
85	63.8	53.4	80.2
127	11.0	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#48

Methyl methacrylate

Concen: 9.361 ug/l

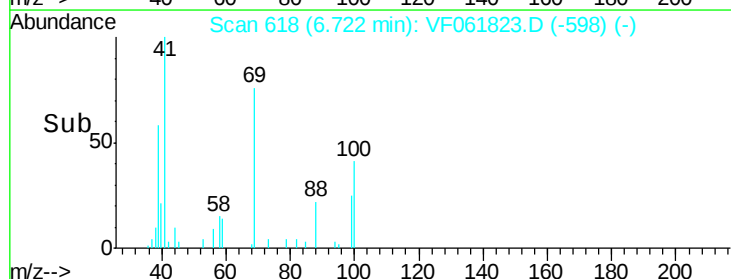
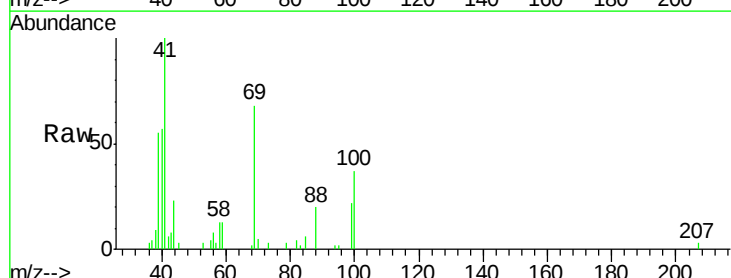
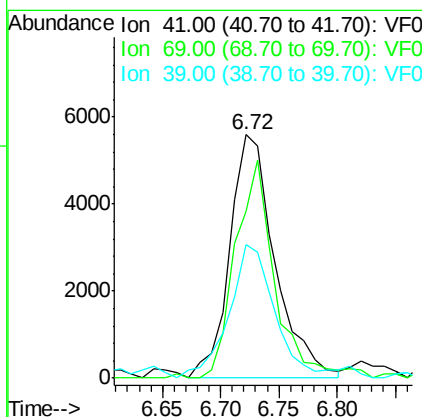
RT: 6.72 min Scan# 618

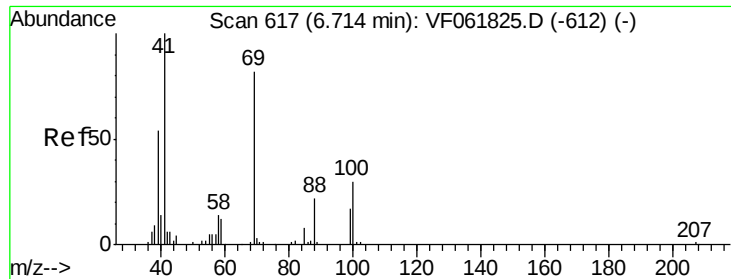
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	41	Resp:	15080
Ion	Ratio	Lower	Upper
41	100		
69	68.4	60.4	90.6
39	55.0	43.7	65.5





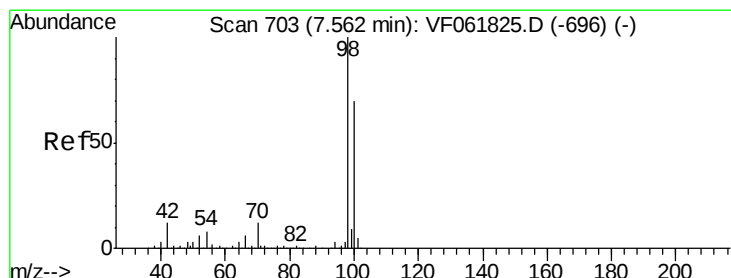
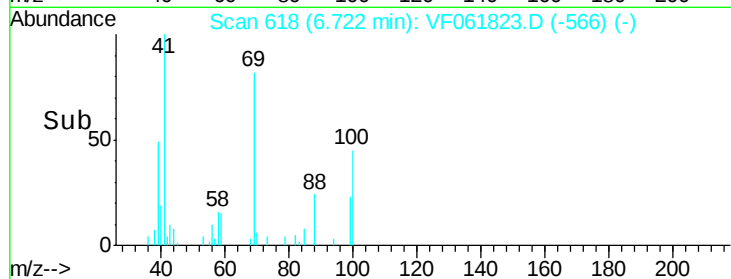
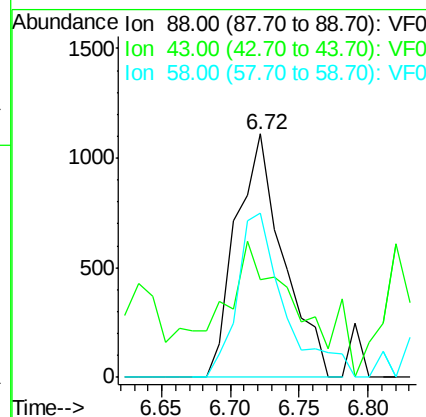
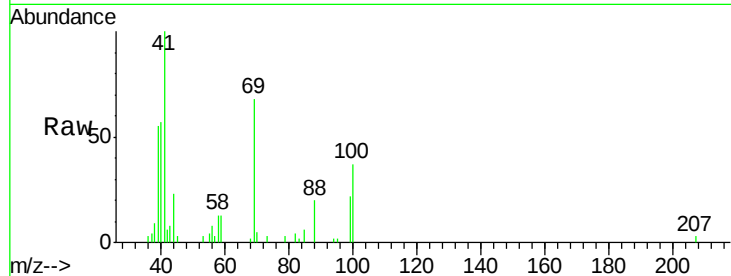
#49
1,4-Dioxane
Concen: 175.066 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.3	48.5
58	67.2	59.4	89.2

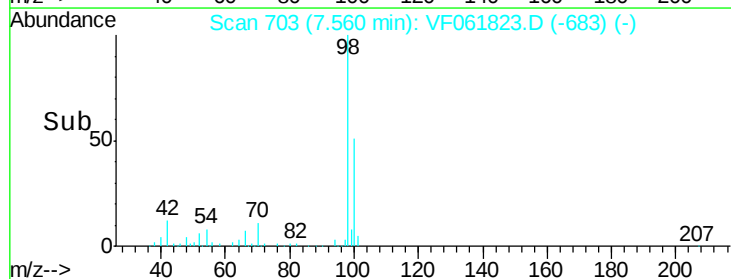
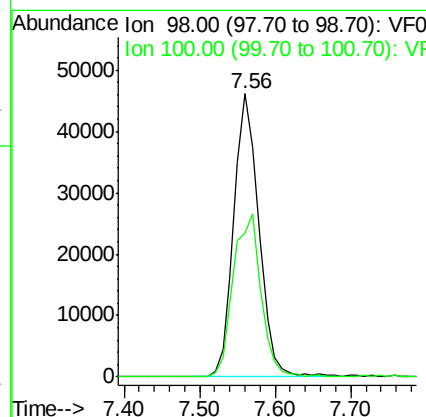
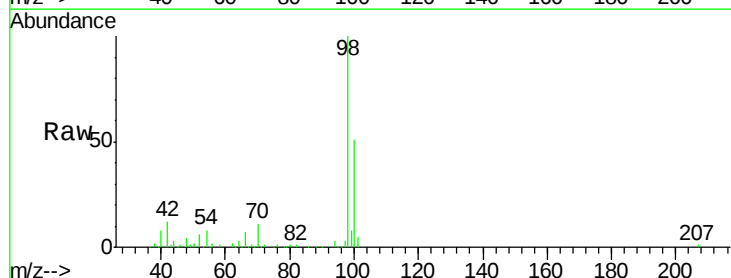
Manual Integrations
APPROVED

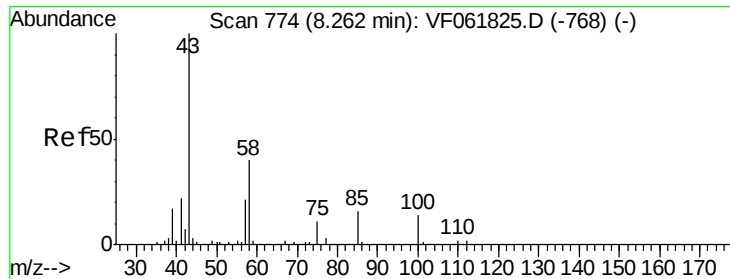
MMDadoda
3/5/2019 10:47:13 AM



#50
Toluene-d8
Concen: 10.088 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
98	100		
100	50.9	55.4	83.2#





#51

4-Methyl-2-Pentanone

Concen: 46.544 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 89023

Ion Ratio Lower Upper

43 100

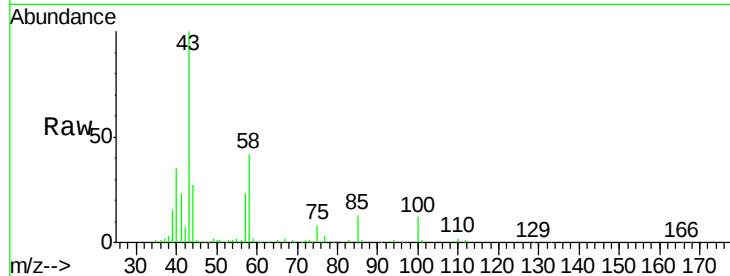
58 42.2 33.1 49.7

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:47:13 AM

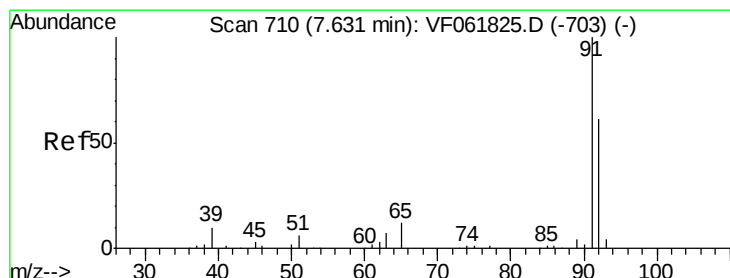
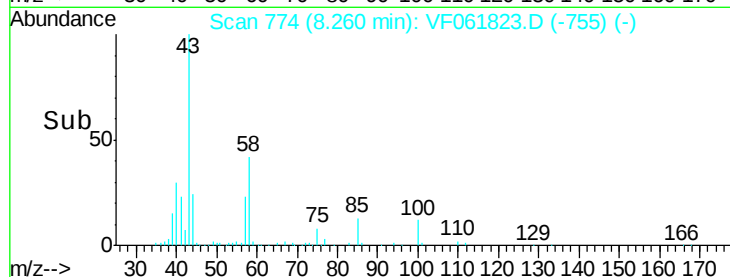


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

Time--> 8.15 8.20 8.25 8.30 8.35



#52

Toluene

Concen: 9.495 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061823.D

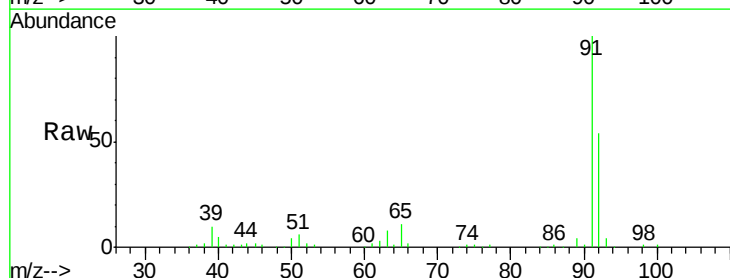
Acq: 4 Mar 2019 16:33

Tgt Ion: 92 Resp: 73332

Ion Ratio Lower Upper

92 100

91 184.6 133.9 200.9

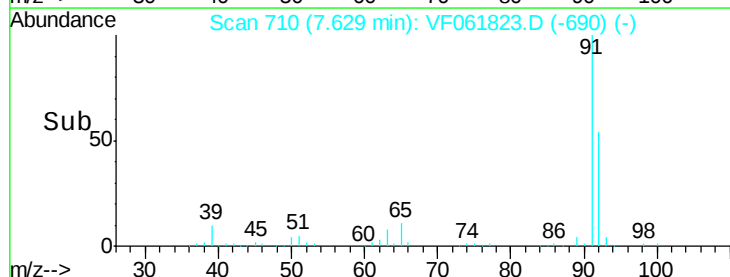


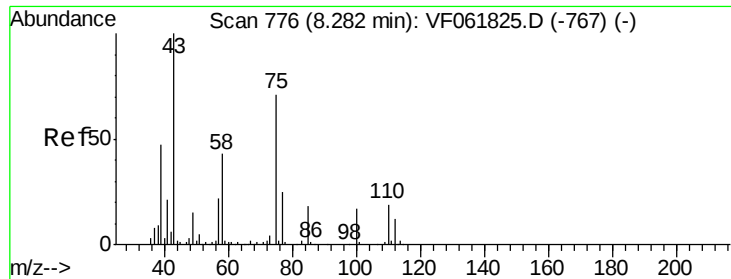
Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

Time--> 7.50 7.60 7.70





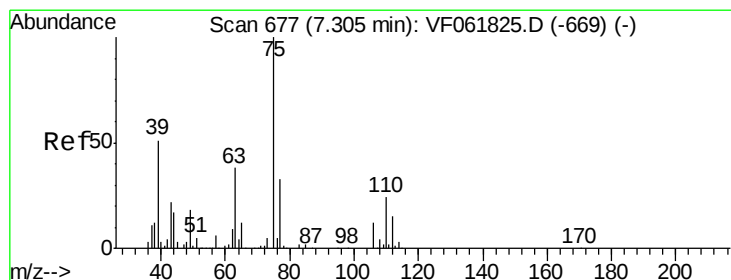
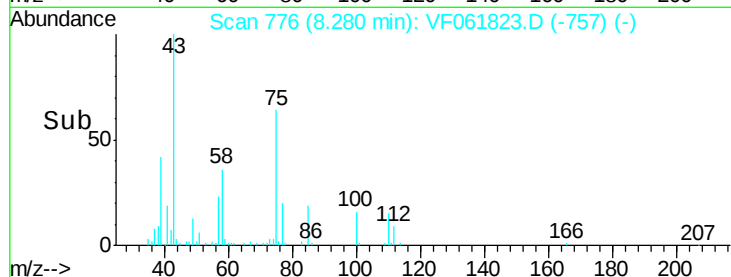
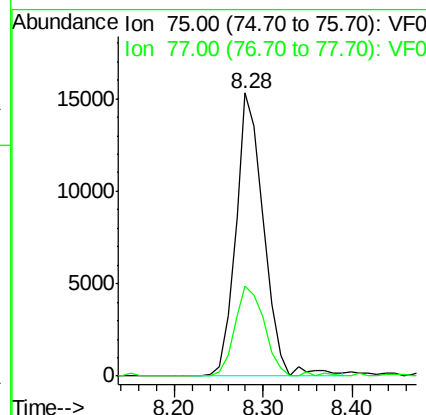
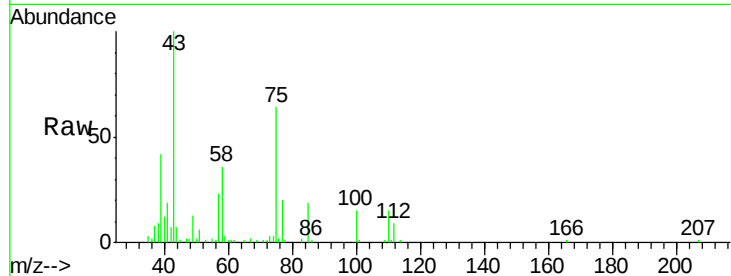
#53
t-1,3-Dichloropropene
Concen: 9.702 ug/l
RT: 8.28 min Scan# 776
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.2	39.2

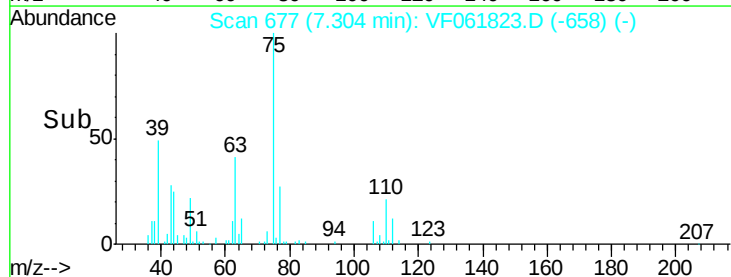
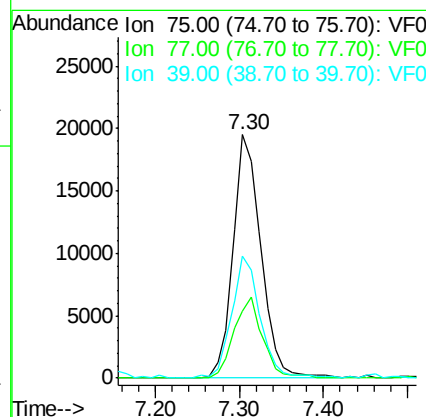
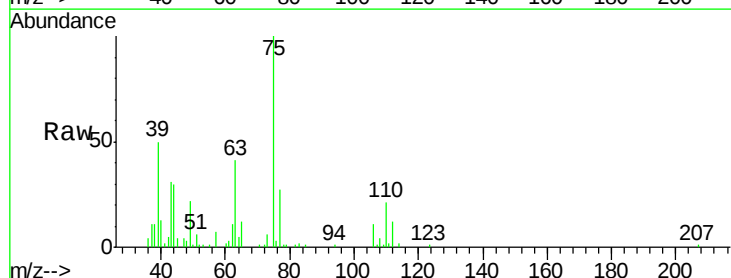
Manual Integrations
APPROVED

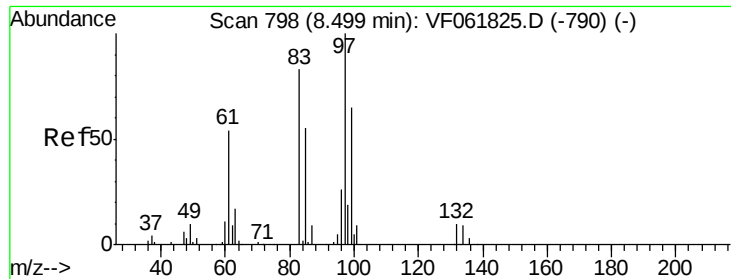
MMDadoda
3/5/2019 10:47:13 AM



#54
cis-1,3-Dichloropropene
Concen: 9.826 ug/l
RT: 7.30 min Scan# 677
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
75	100		
77	27.3	26.4	39.6
39	49.9	36.0	54.0





#55

1,1,2-Trichloroethane

Concen: 9.291 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

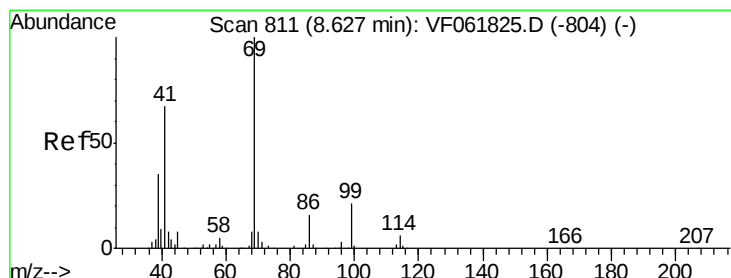
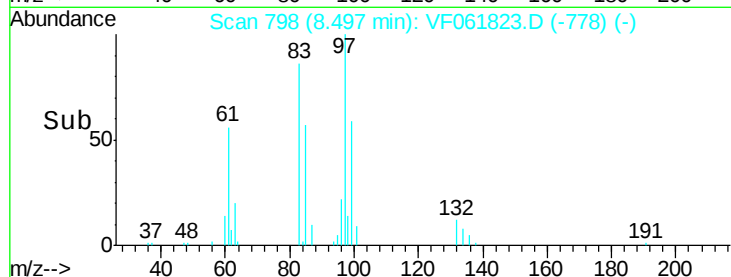
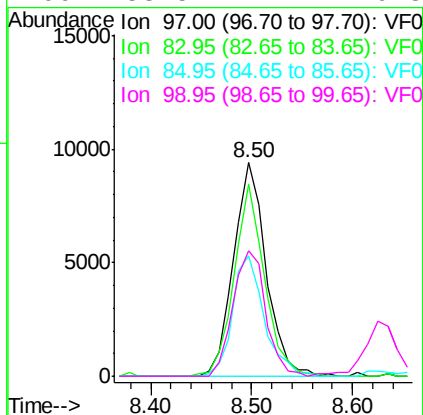
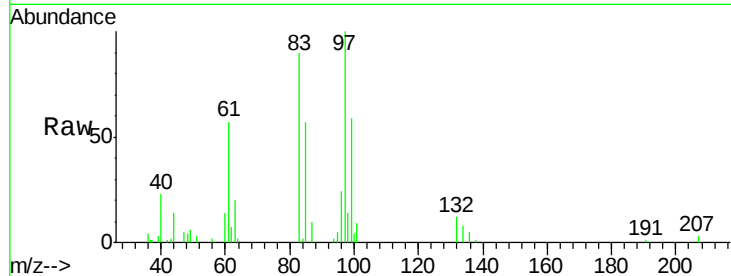
ClientSampleId :

VSTDIC010

Tot Ion:	97	Resp:	21084
Ion	Ratio	Lower	Upper
97	100		
83	89.6	69.2	103.8
85	56.6	43.0	64.4
99	58.5	47.2	70.8

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#56

Ethyl methacrylate

Concen: 9.575 ug/l

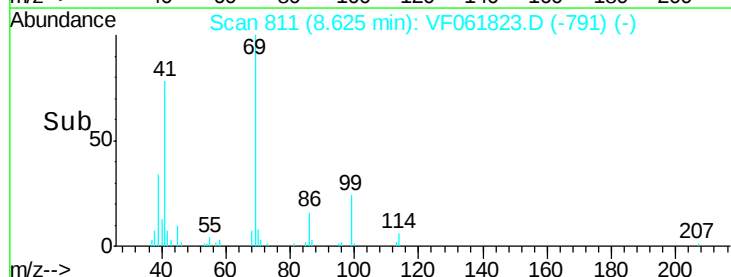
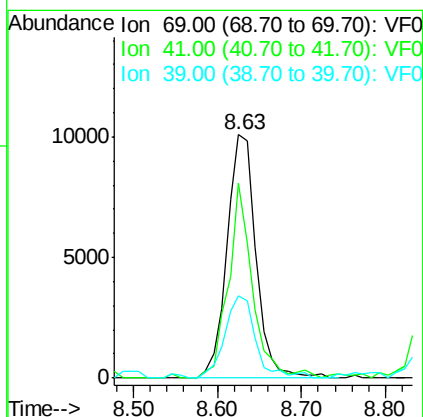
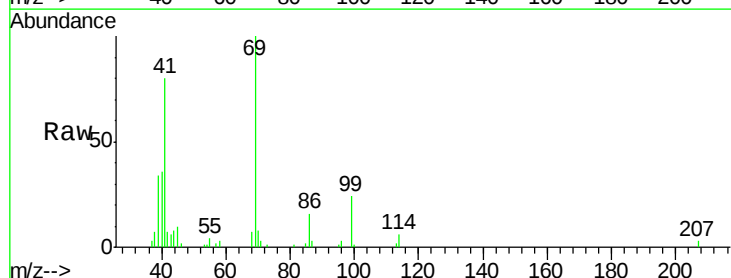
RT: 8.63 min Scan# 811

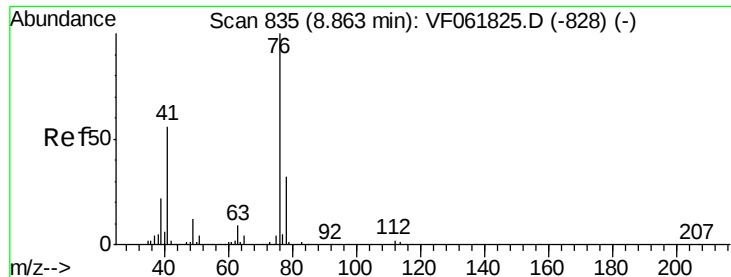
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	69	Resp:	24191
Ion	Ratio	Lower	Upper
69	100		
41	80.0	52.9	79.3#
39	33.9	24.5	36.7





#57

1,3-Dichloropropane

Concen: 8.608 ug/l

RT: 8.86 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 32604

Ion Ratio Lower Upper

76 100

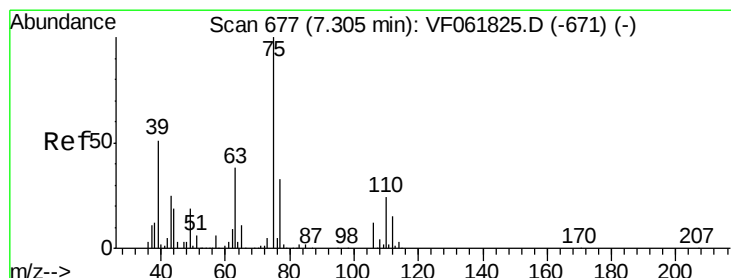
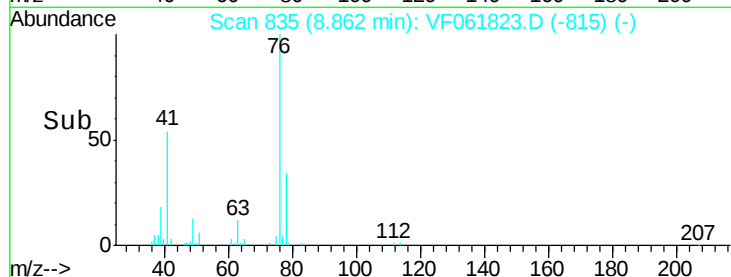
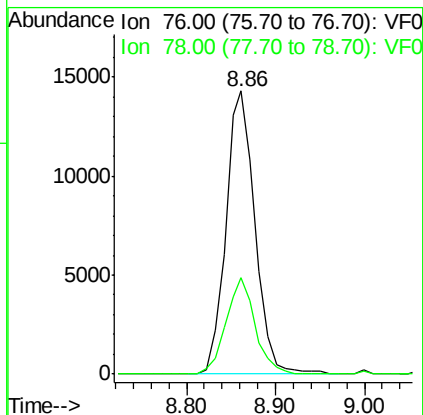
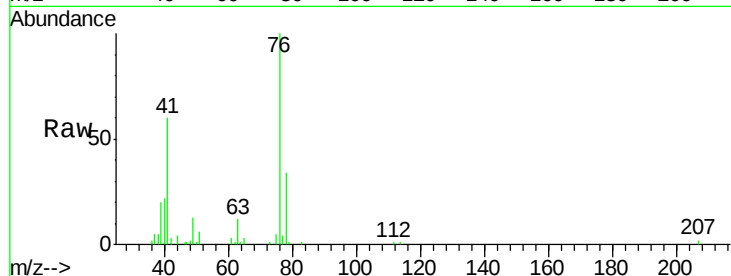
78 34.3 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:47:13 AM



#58

2-Chloroethyl Vinyl ether

Concen: 41.796 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061823.D

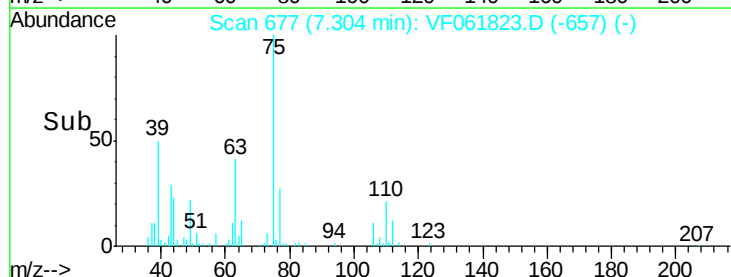
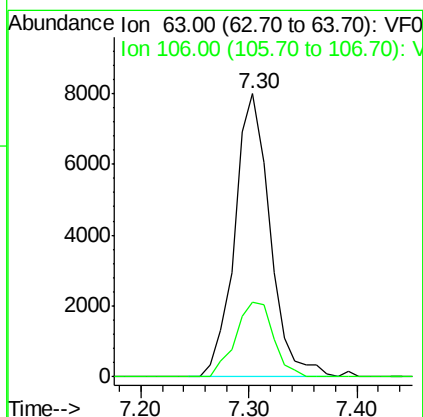
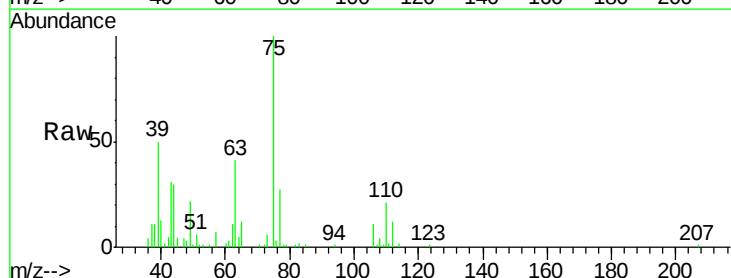
Acq: 4 Mar 2019 16:33

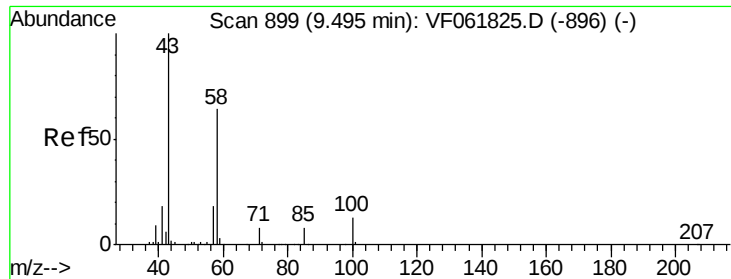
Tgt Ion: 63 Resp: 18219

Ion Ratio Lower Upper

63 100

106 26.4 24.6 36.8





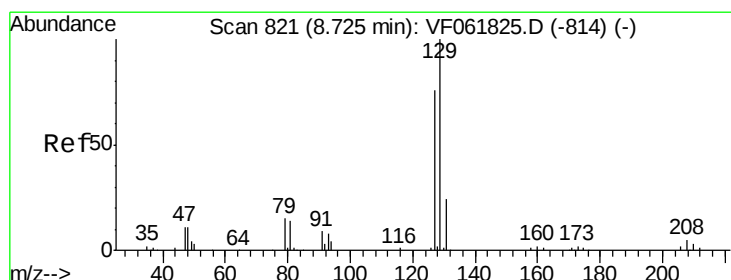
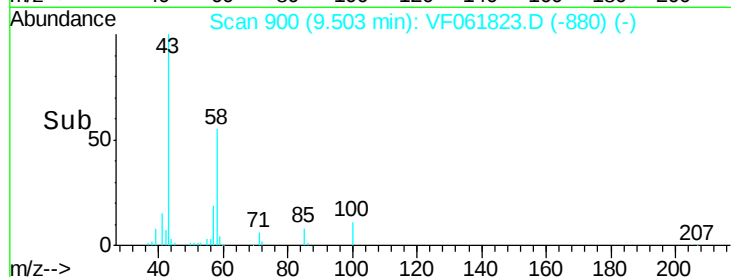
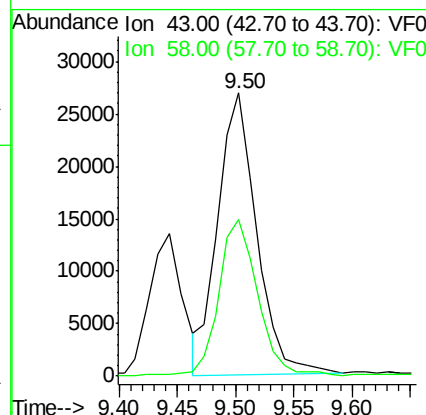
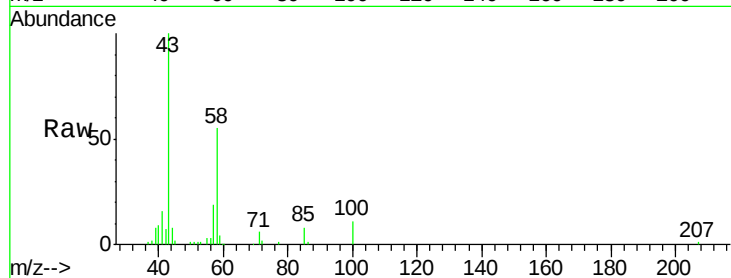
#59
2-Hexanone
Concen: 46.178 ug/l
RT: 9.50 min Scan# 900
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 61911
Ion Ratio Lower Upper
43 100
58 55.2 28.5 85.5

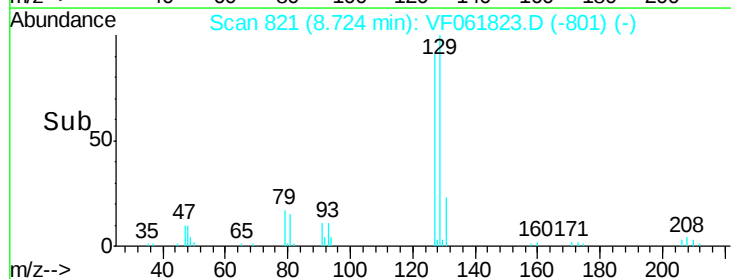
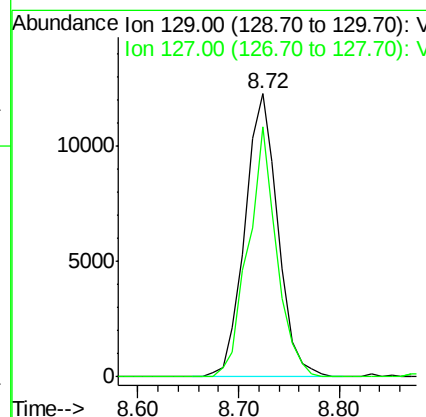
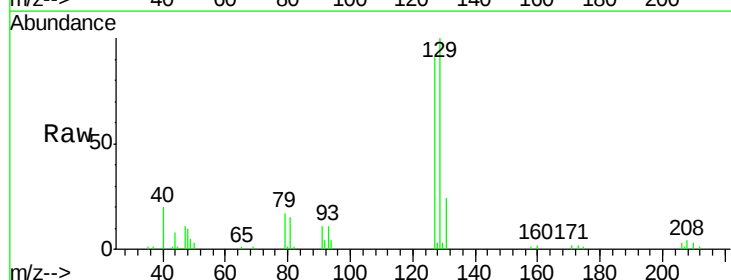
Manual Integrations
APPROVED

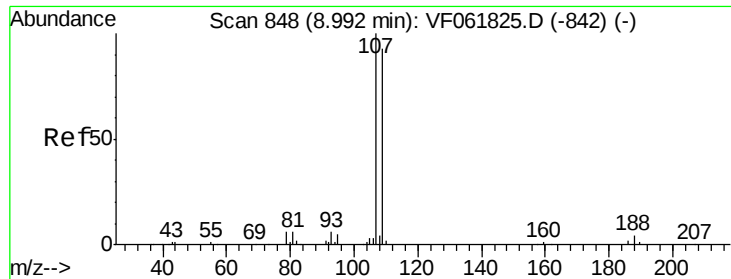
MMDadoda
3/5/2019 10:47:13 AM



#60
Dibromochloromethane
Concen: 8.843 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion: 129 Resp: 27930
Ion Ratio Lower Upper
129 100
127 88.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 9.038 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:107 Resp: 22244

Ion Ratio Lower Upper

107 100

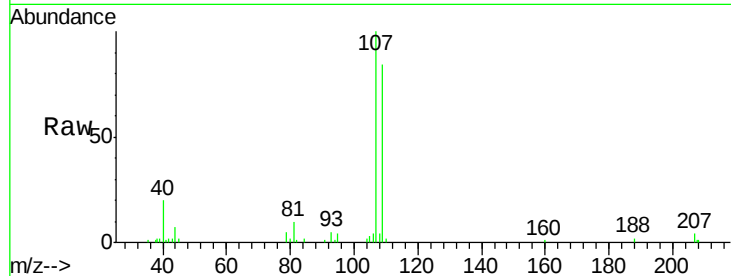
109 83.5 77.4 116.0

Manual Integrations

APPROVED

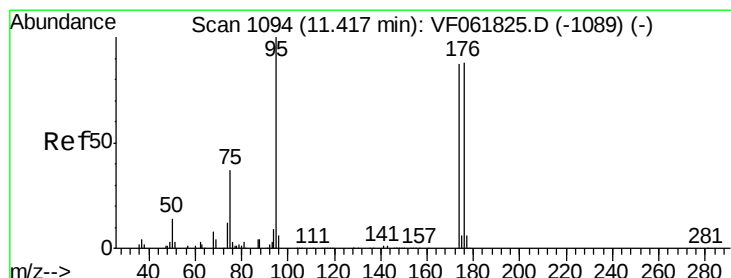
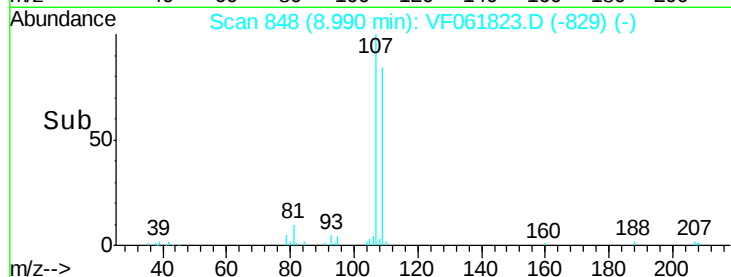
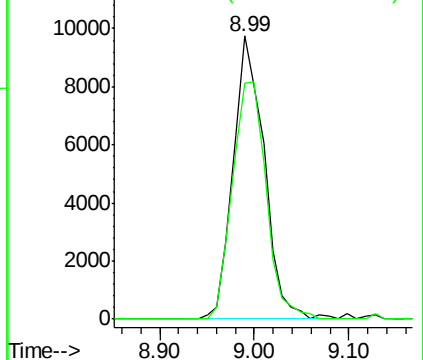
MMDadoda

3/5/2019 10:47:13 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 10.189 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

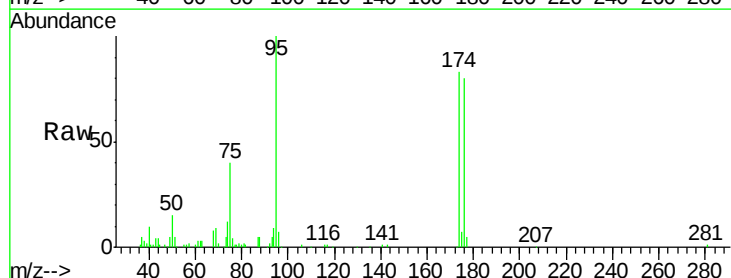
Tgt Ion: 95 Resp: 43255

Ion Ratio Lower Upper

95 100

174 83.5 0.0 165.8

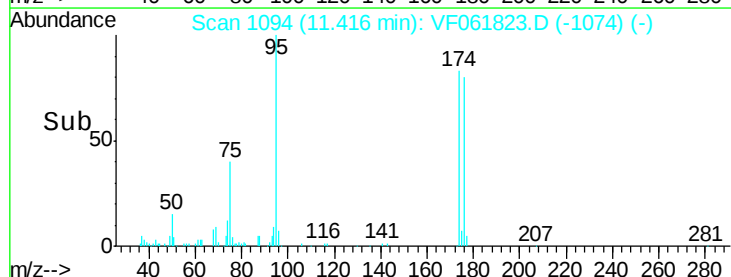
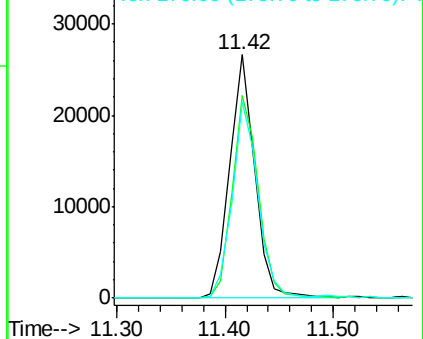
176 80.4 0.0 167.0

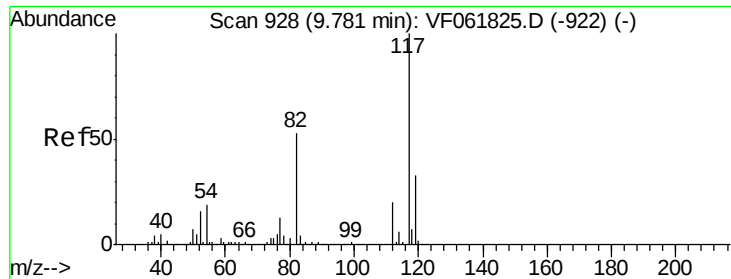


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





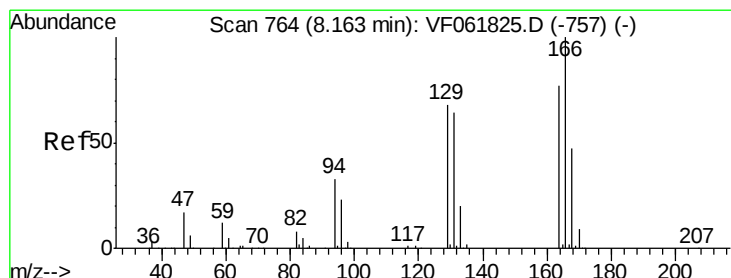
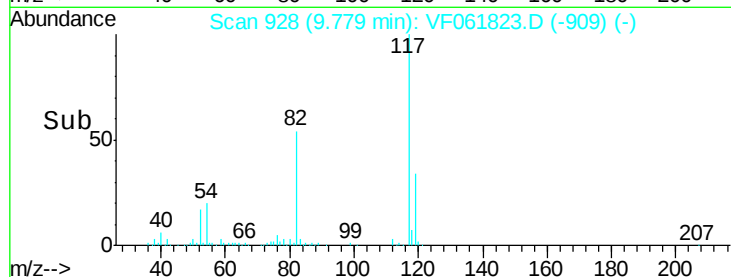
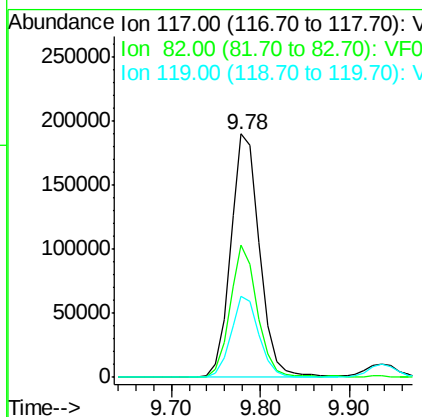
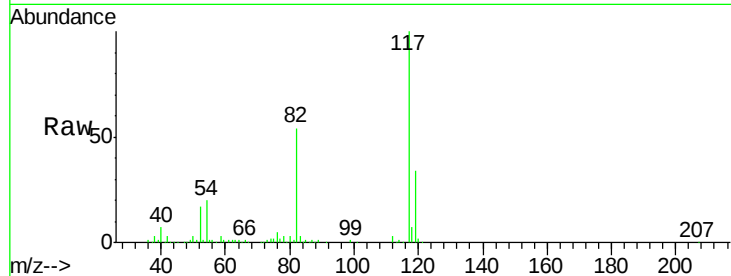
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
117	100	429765		
82	54.3		39.3	58.9
119	33.5		26.6	40.0

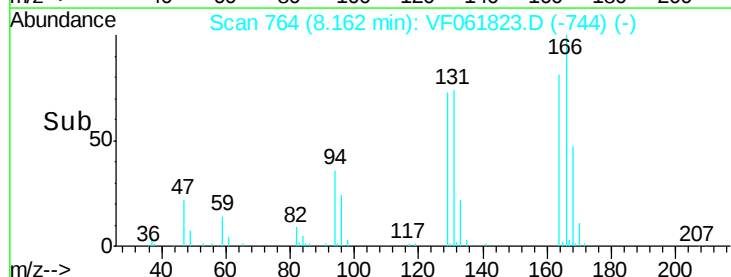
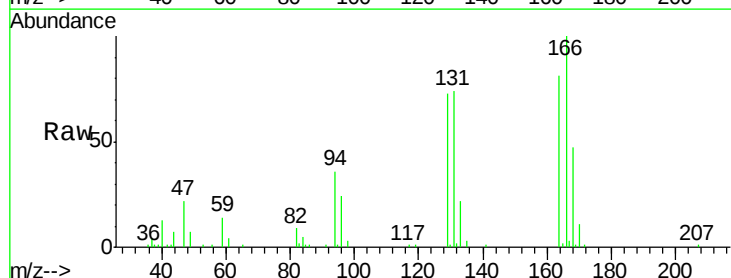
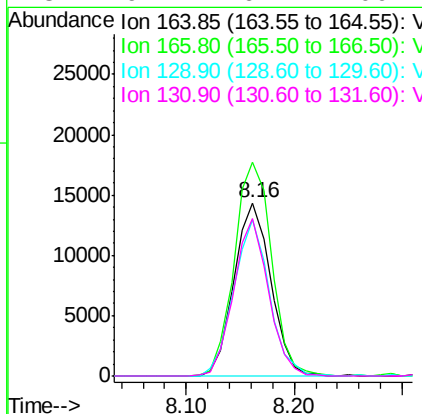
Manual Integrations
APPROVED

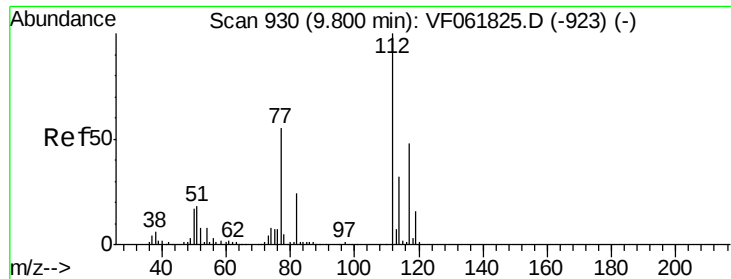
MMDadoda
3/5/2019 10:47:13 AM



#64
Tetrachloroethene
Concen: 9.676 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	33990		
166	123.2		103.9	155.9
129	90.2		71.3	106.9
131	91.2		67.1	100.7





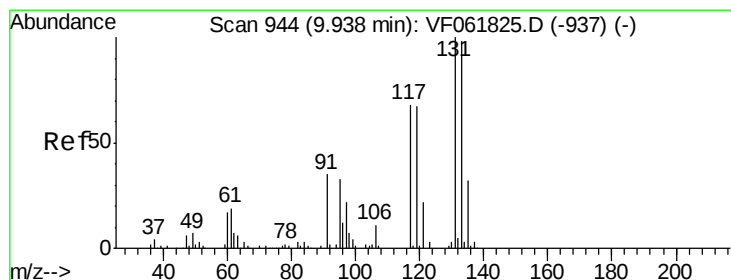
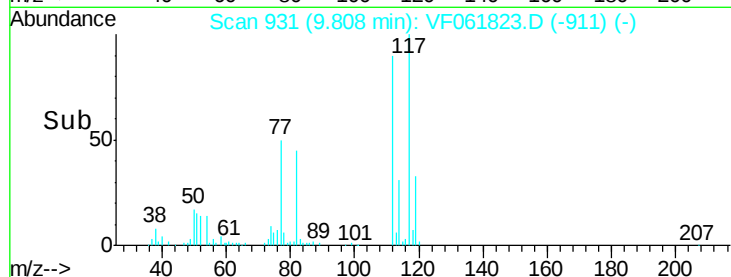
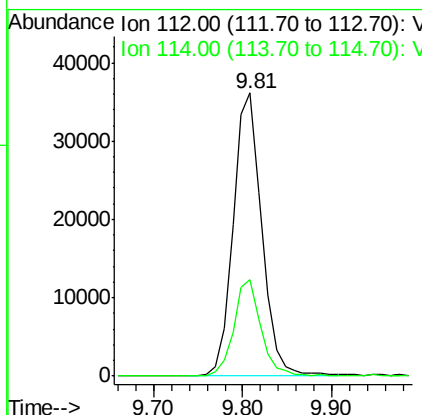
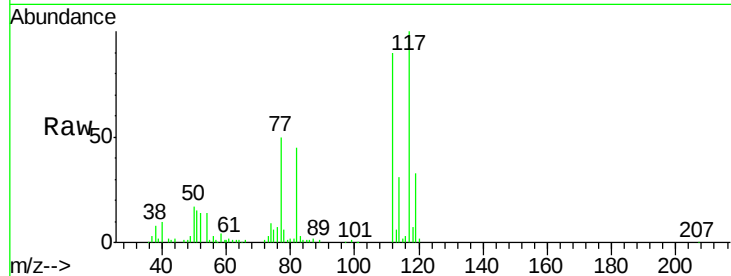
#65
Chlorobenzene
Concen: 9.293 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:112 Resp: 81047
Ion Ratio Lower Upper
112 100
114 34.1 26.2 39.2

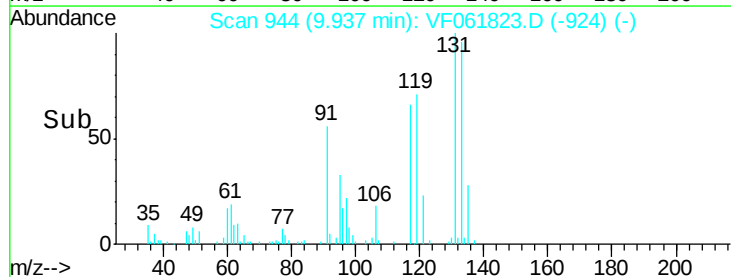
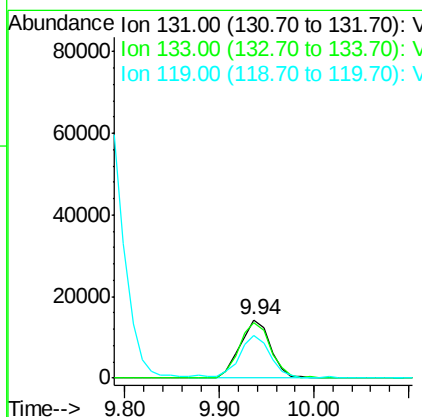
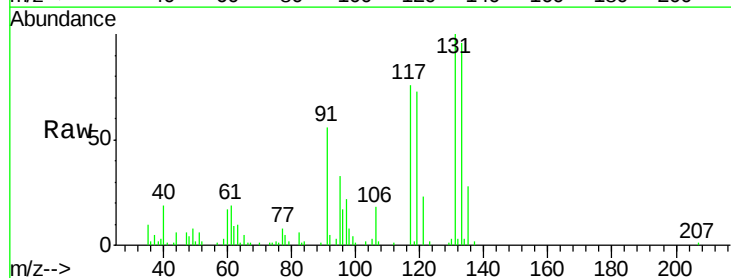
Manual Integrations
APPROVED

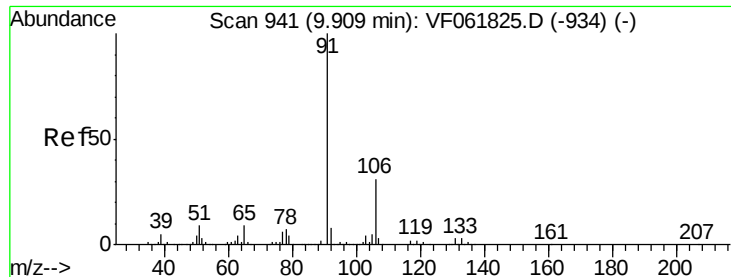
MMDadoda
3/5/2019 10:47:13 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 9.399 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion:131 Resp: 32118
Ion Ratio Lower Upper
131 100
133 95.9 48.9 146.6
119 73.2 34.8 104.3





#67

Ethyl Benzene

Concen: 9.747 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 141356

Ion Ratio Lower Upper

91 100

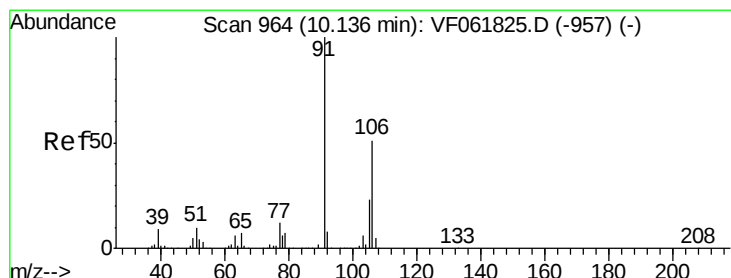
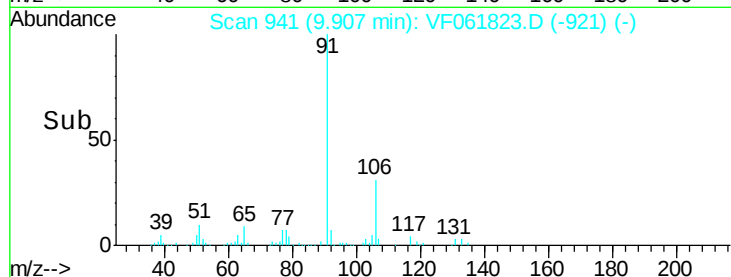
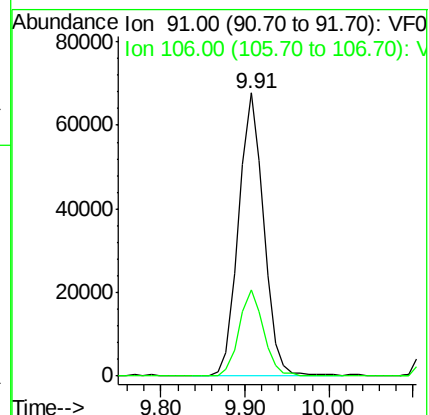
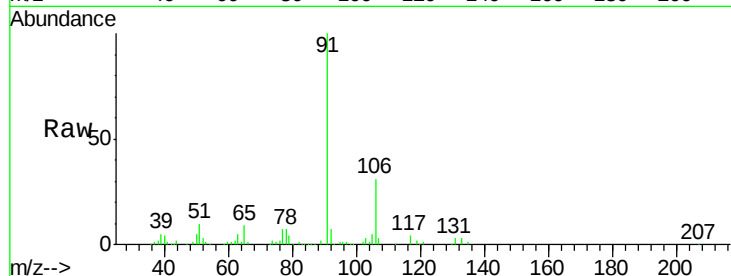
106 30.6 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:47:13 AM



#68

m/p-Xylenes

Concen: 19.862 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061823.D

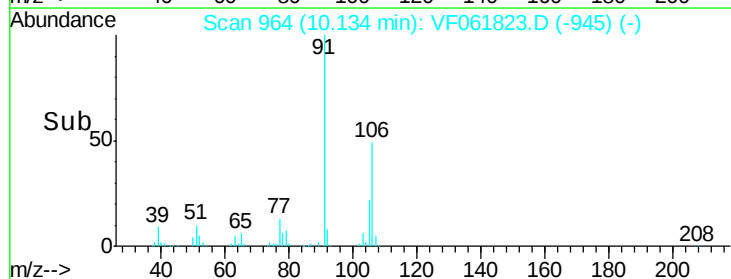
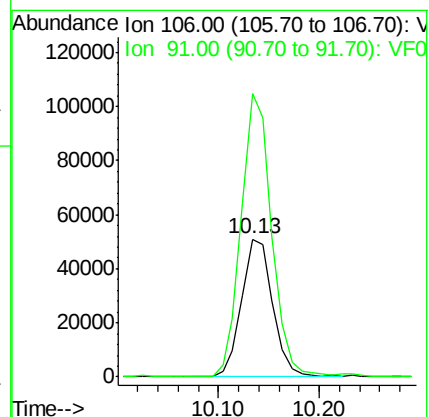
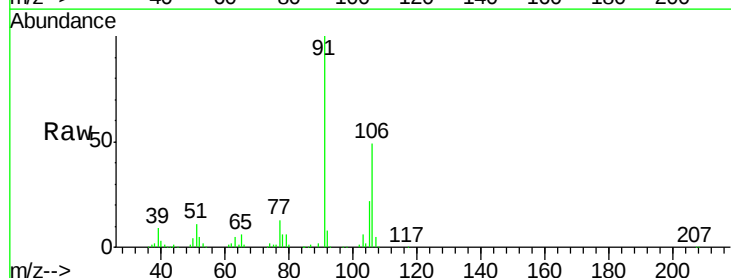
Acq: 4 Mar 2019 16:33

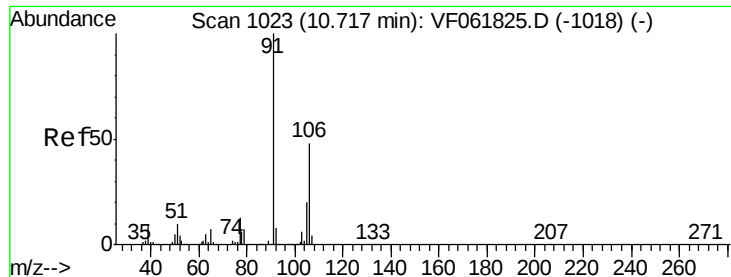
Tgt Ion: 106 Resp: 110241

Ion Ratio Lower Upper

106 100

91 205.5 153.0 229.6





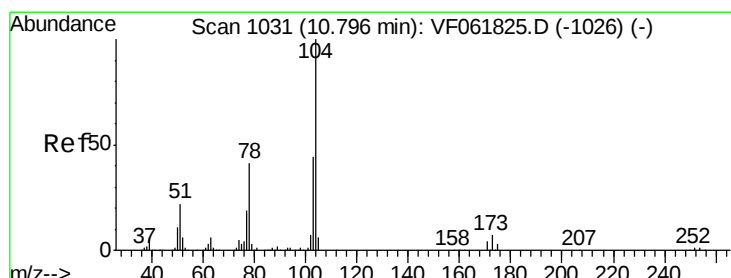
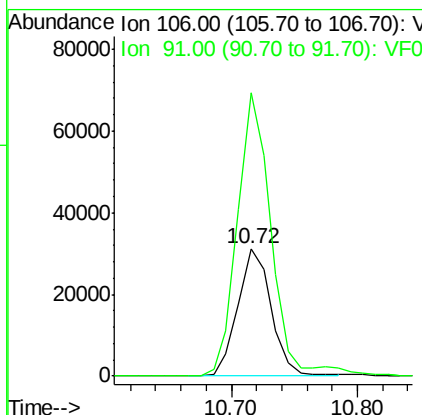
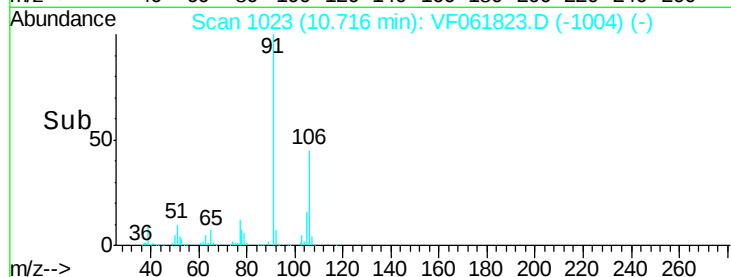
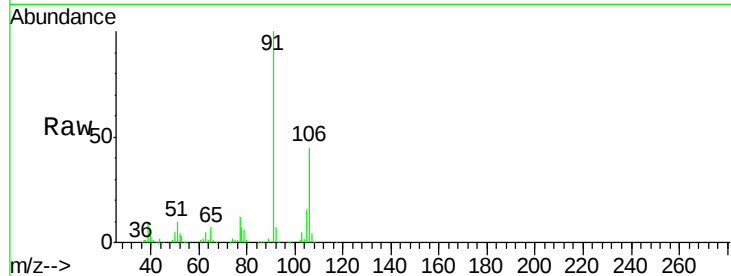
#69
o-Xylene
Concen: 9.733 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:106 Resp: 57646
Ion Ratio Lower Upper
106 100
91 221.7 100.1 300.1

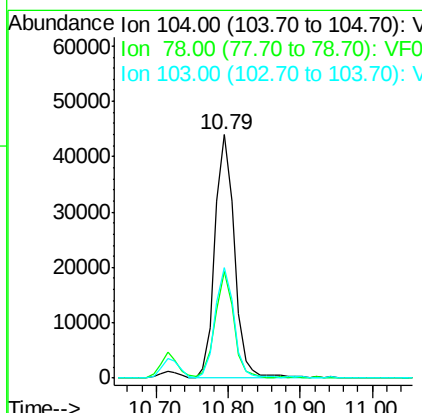
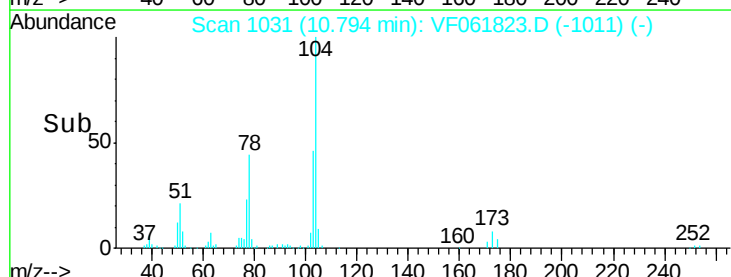
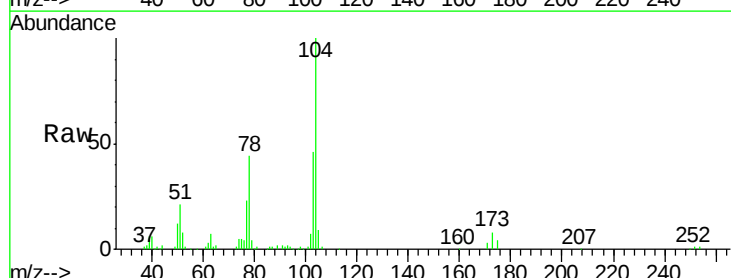
Manual Integrations
APPROVED

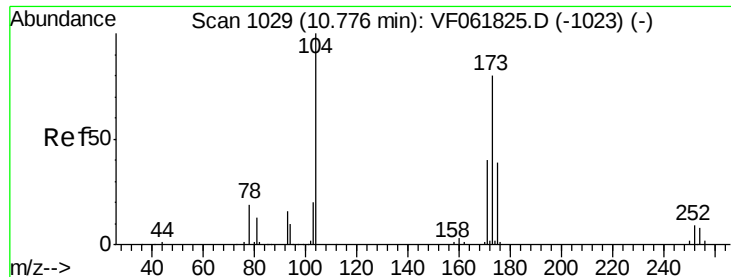
MMDadoda
3/5/2019 10:47:13 AM



#70
Styrene
Concen: 9.725 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion:104 Resp: 81478
Ion Ratio Lower Upper
104 100
78 43.9 33.2 49.8
103 45.6 37.2 55.8





#71

Bromoform

Concen: 8.938 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:173 Resp: 16586

Ion Ratio Lower Upper

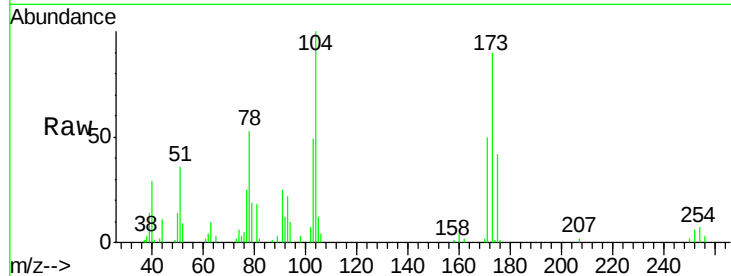
173 100

175 46.8 24.0 72.0

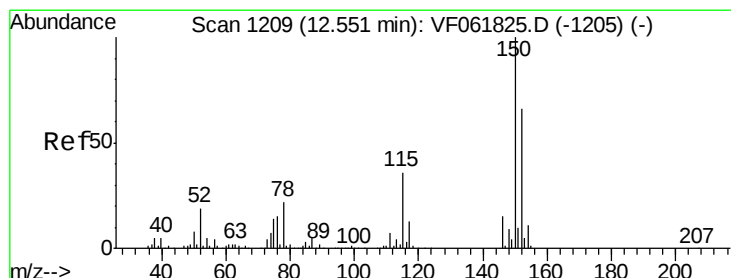
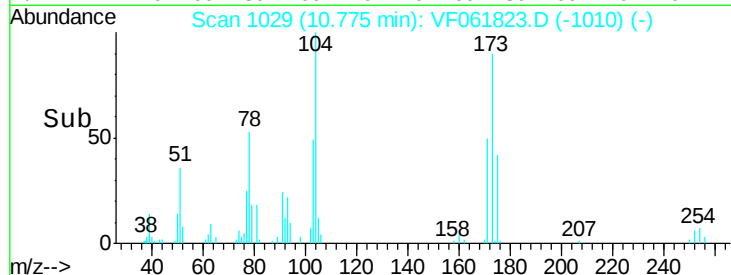
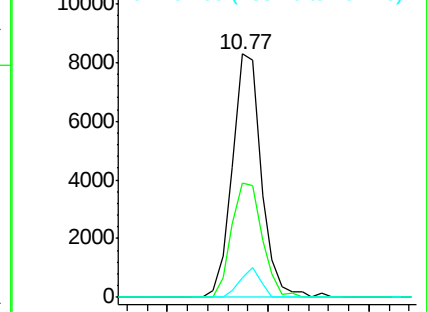
254 8.2 8.2 12.2

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

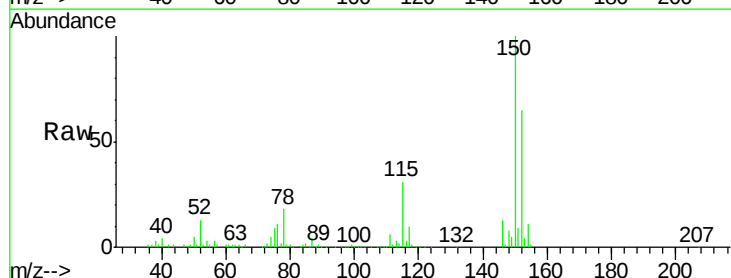
Tgt Ion:152 Resp: 241988

Ion Ratio Lower Upper

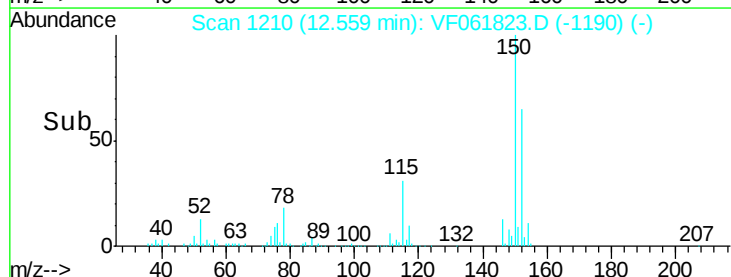
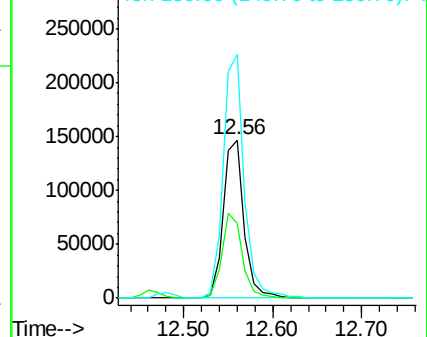
152 100

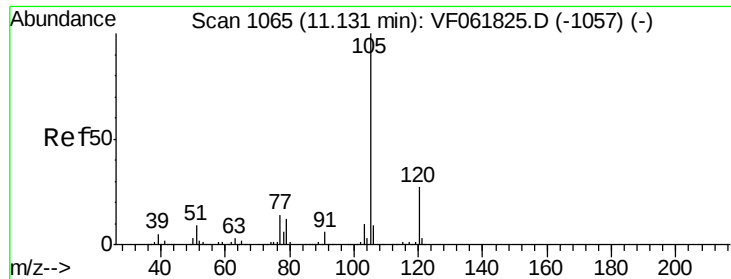
115 47.2 24.3 72.8

150 154.1 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 9.574 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 164948

Ion Ratio Lower Upper

105 100

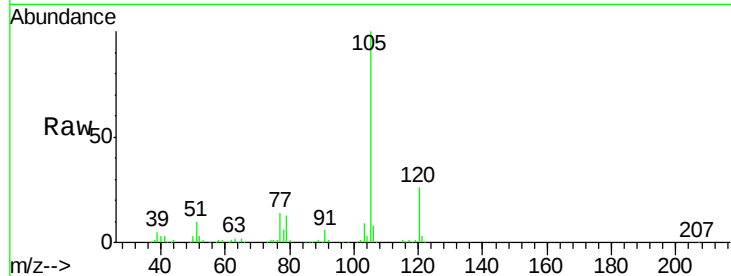
120 26.2 13.4 40.1

Manual Integrations

APPROVED

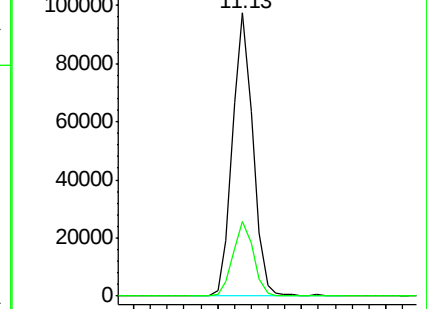
MMDadoda

3/5/2019 10:47:13 AM

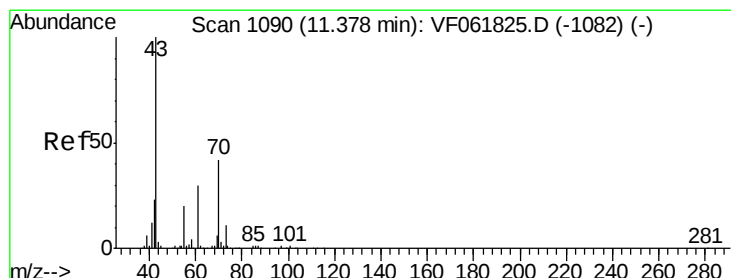
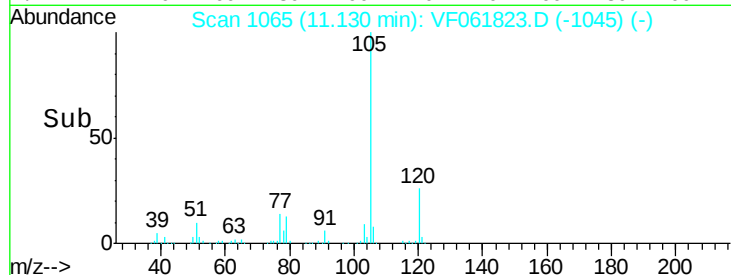


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#74

N-ethyl acetate

Concen: 9.401 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion: 43 Resp: 38877

Ion Ratio Lower Upper

43 100

70 39.2 31.5 47.3

55 22.2 16.7 25.1

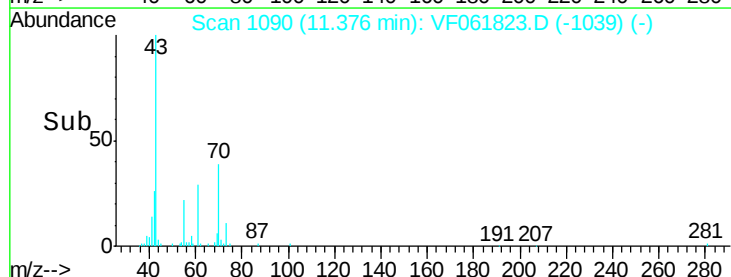
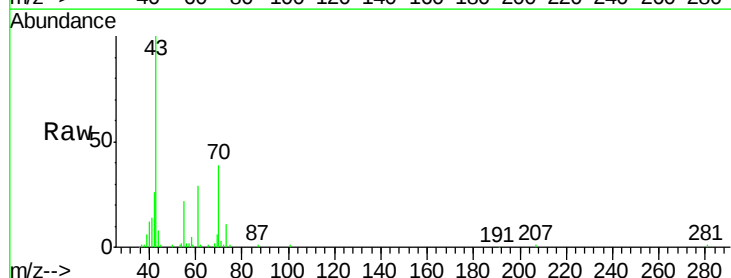
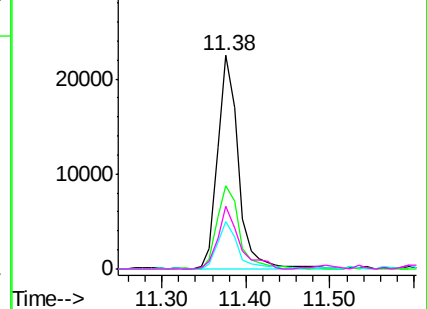
61 29.1 23.0 34.6

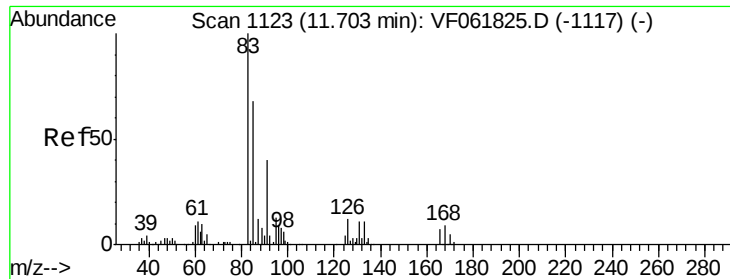
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 8.436 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

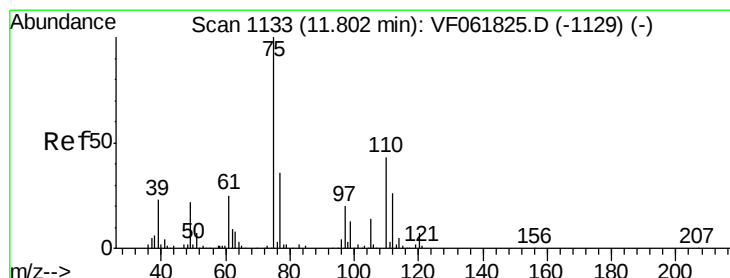
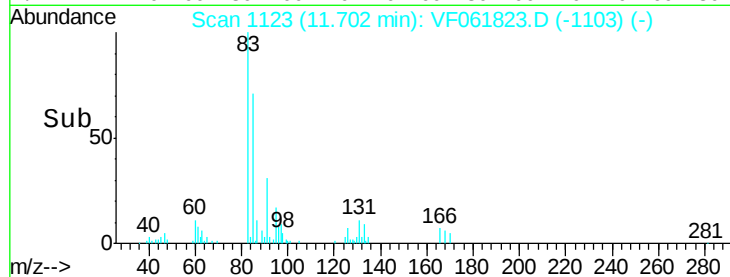
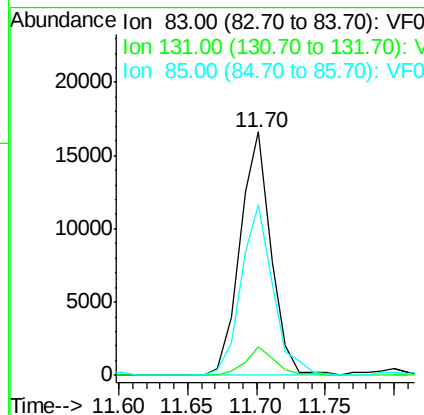
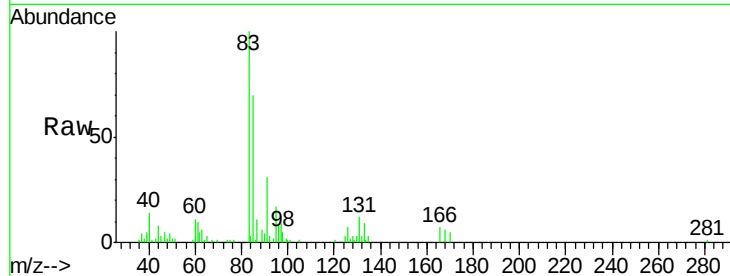
ClientSampleId :

VSTDIC010

Tot Ion	83	Resp	26038
Ion Ratio	100	Lower	Upper
83	100		
131	12.0	4.4	13.2
85	70.0	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#76

1,2,3-Trichloropropane

Concen: 8.955 ug/l

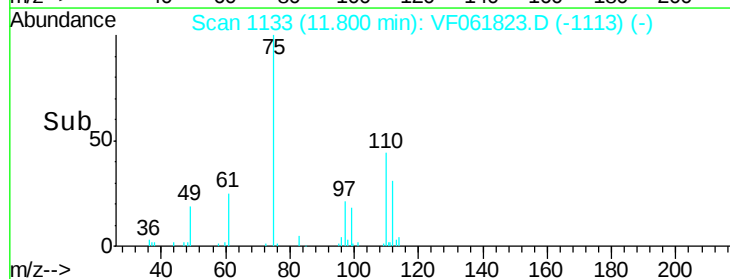
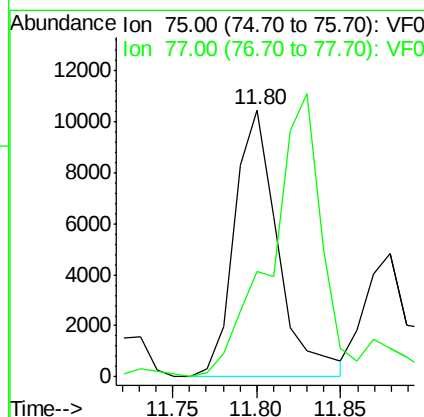
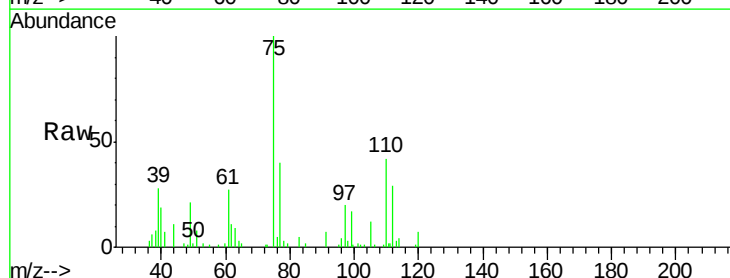
RT: 11.80 min Scan# 1133

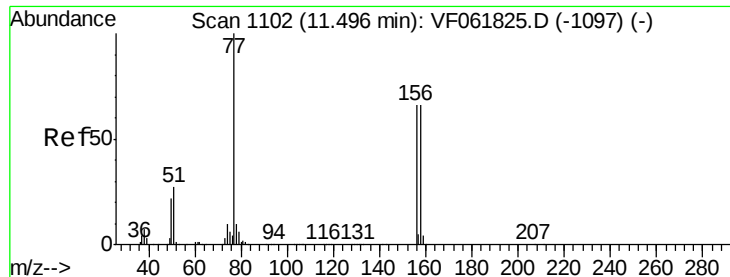
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion	75	Resp	18793
Ion Ratio	100	Lower	Upper
75	100		
77	39.5	16.6	49.7





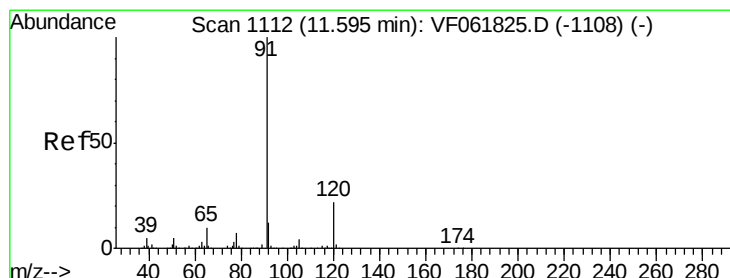
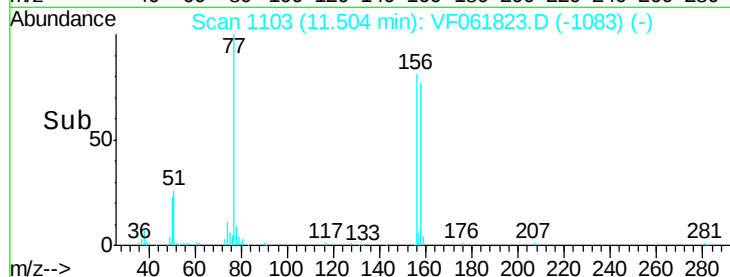
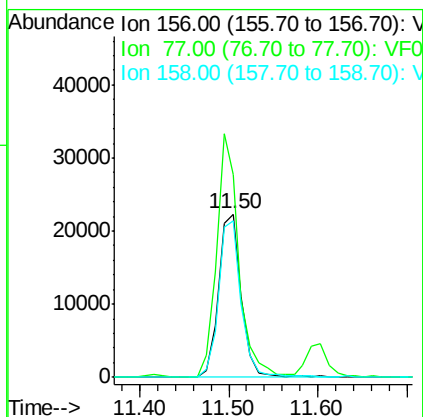
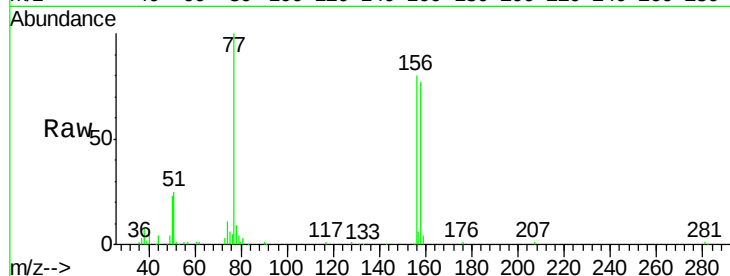
#77
Bromobenzene
Concen: 9.401 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	124.3	64.3	192.7	
158	95.4	50.9	152.7	

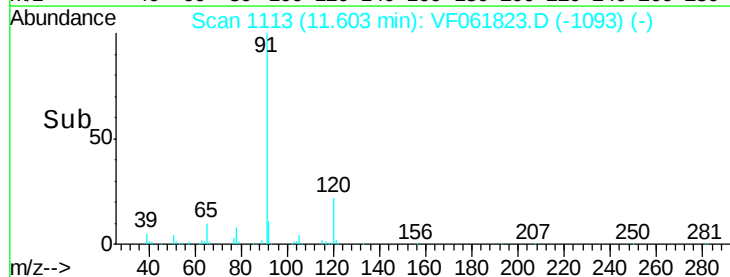
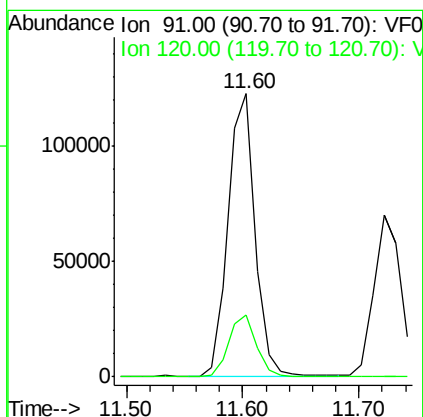
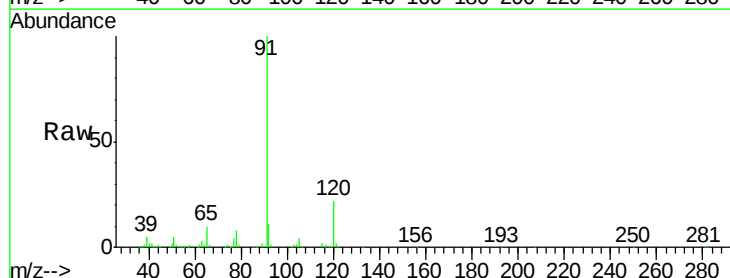
Manual Integrations
APPROVED

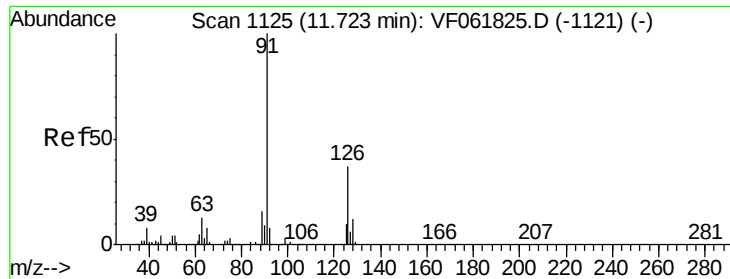
MMDadoda
3/5/2019 10:47:13 AM



#78
n-propylbenzene
Concen: 9.964 ug/l
RT: 11.60 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.8	12.1	36.3	





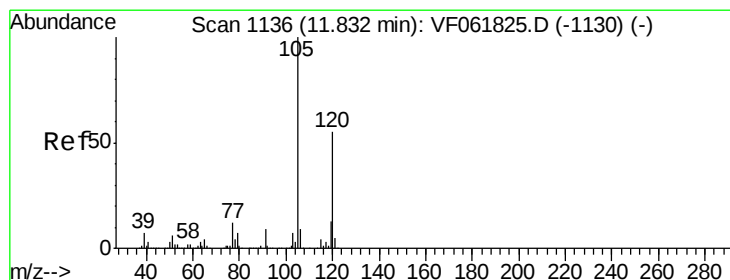
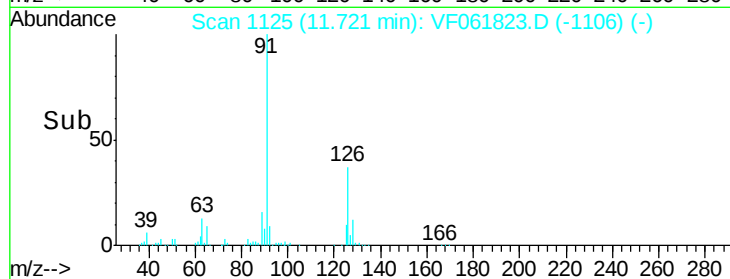
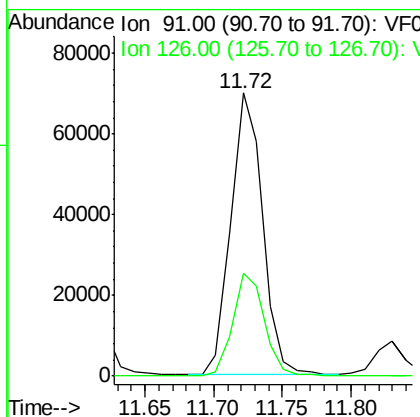
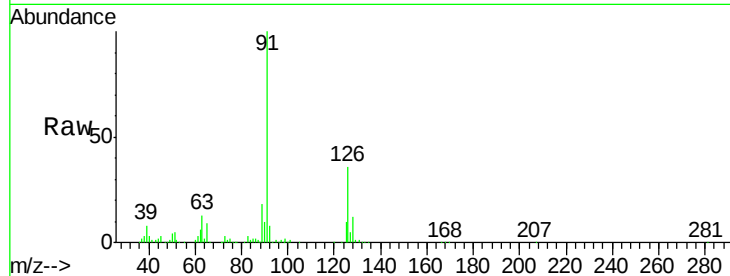
#79
 2-Chlorotoluene
 Concen: 10.062 ug/l
 RT: 11.72 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
126	36.3	19.8	59.4

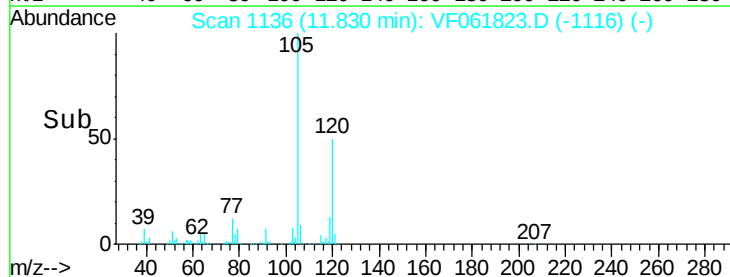
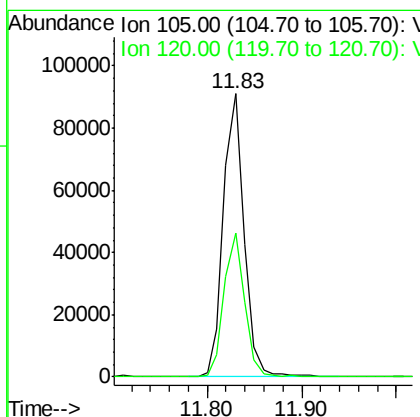
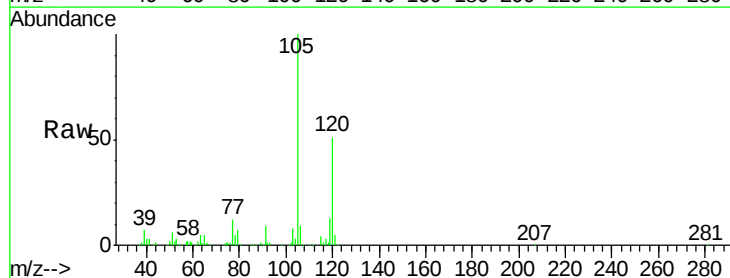
Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 10.054 ug/l
 RT: 11.83 min Scan# 1136
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.9	27.9	83.6





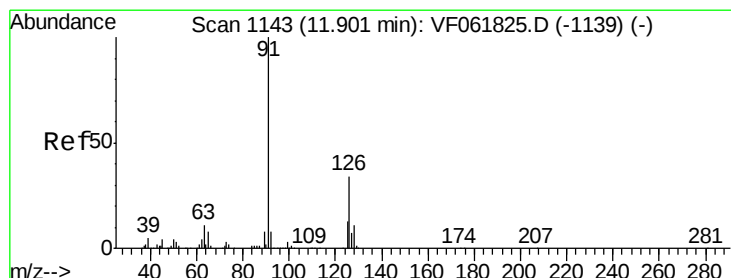
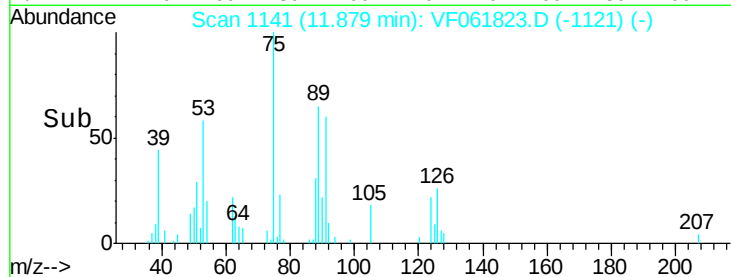
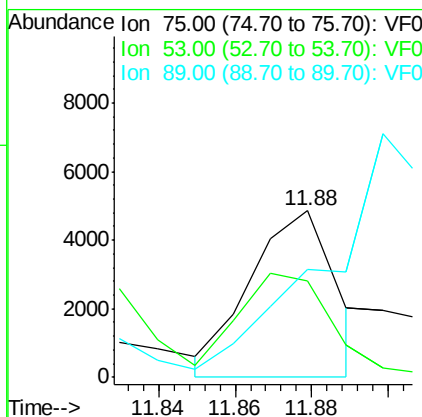
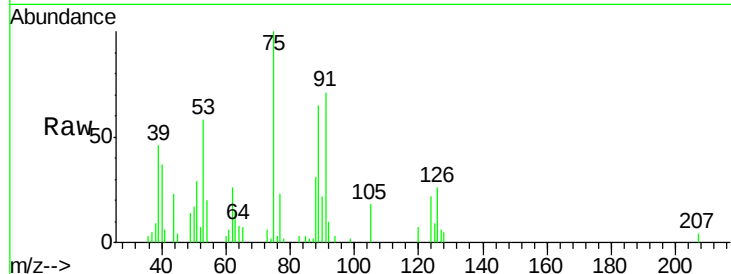
#81
trans-1,4-Dichloro-2-butene
Concen: 7.507 ug/l m
RT: 11.88 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
53	57.6	53.7	80.5
89	64.7	41.6	62.4

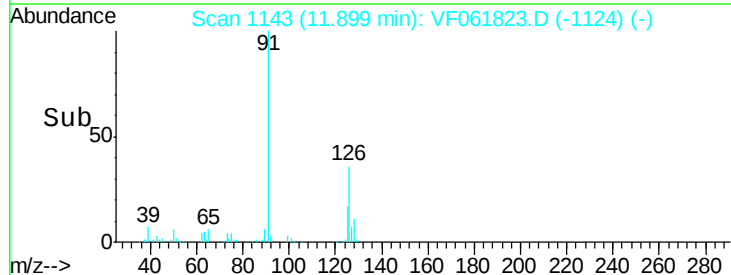
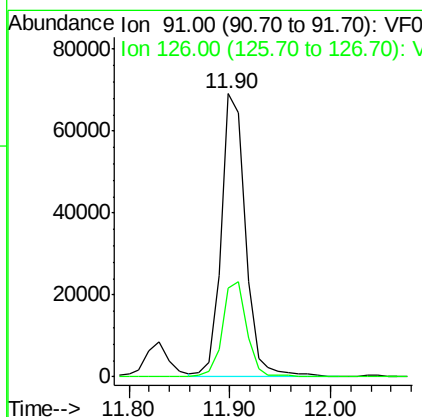
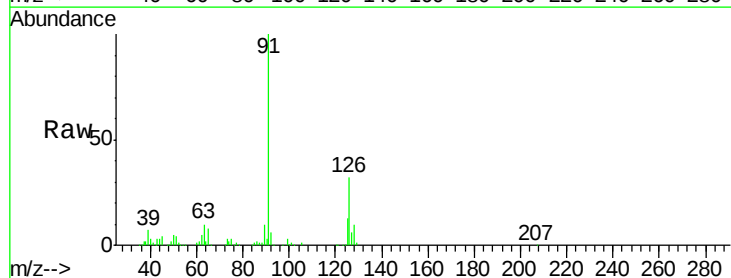
Manual Integrations
APPROVED

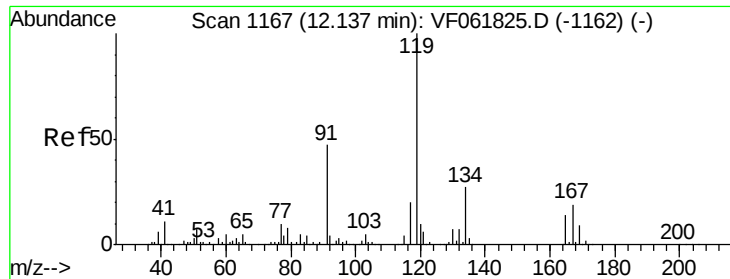
MMDadoda
3/5/2019 10:47:13 AM



#82
4-Chlorotoluene
Concen: 9.989 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VF061823.D
Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.6	19.1	57.1





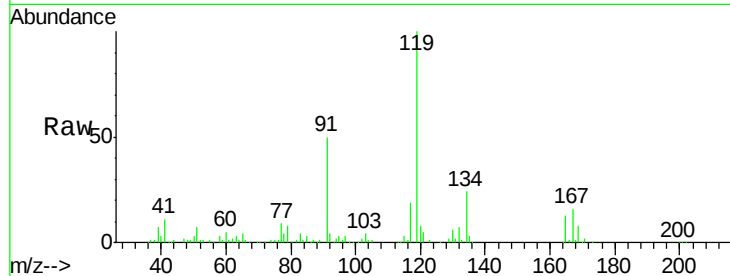
#83
 tert-Butylbenzene
 Concen: 9.859 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

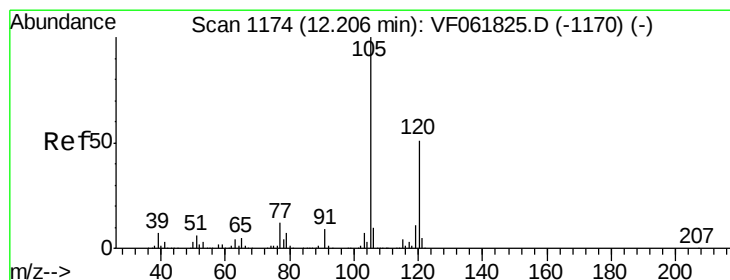
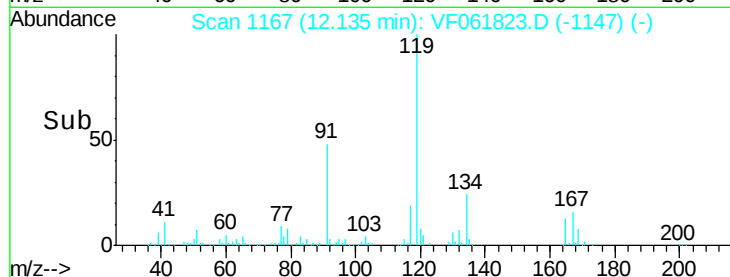
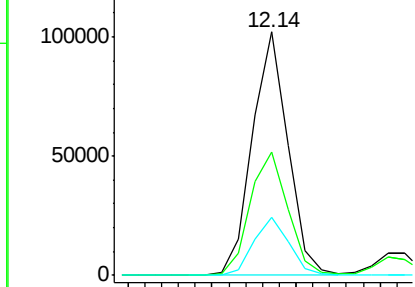
Tot Ion	Ratio	Resp	Lower	Upper
119	100	150366		
91	50.4	26.3	78.8	
134	23.9	12.9	38.7	

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM

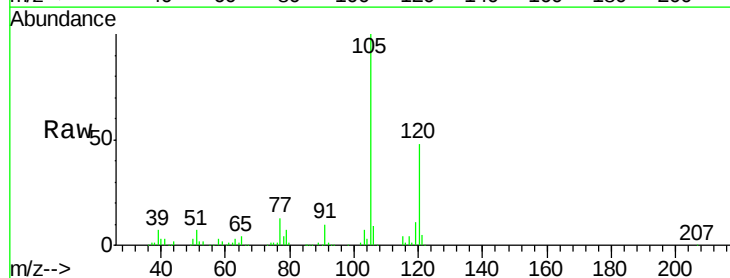


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

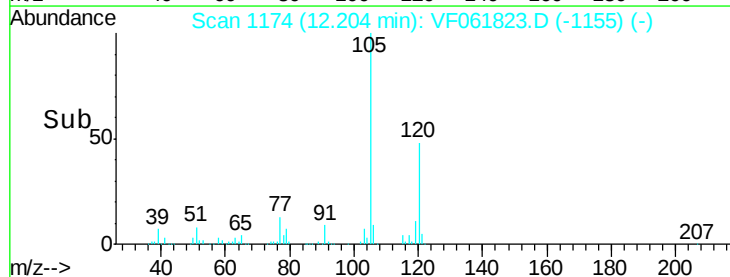
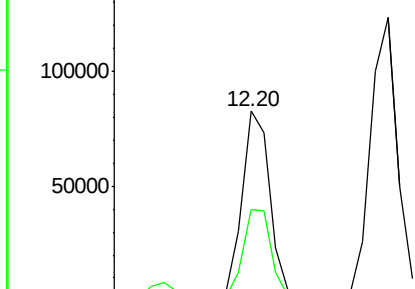


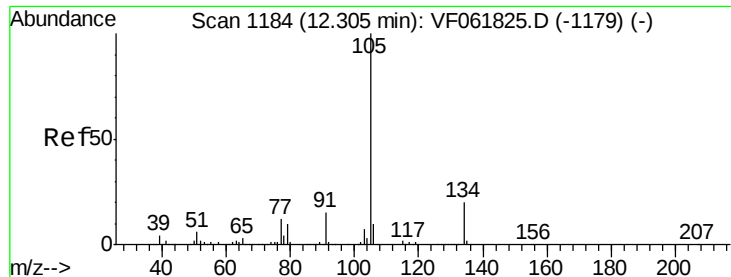
#84
 1,2,4-Trimethylbenzene
 Concen: 9.448 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	129255		
120	48.2	26.1	78.3	



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





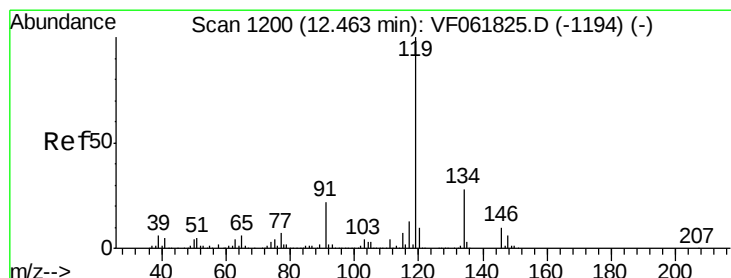
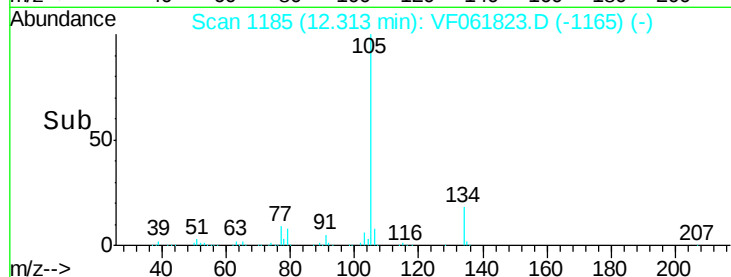
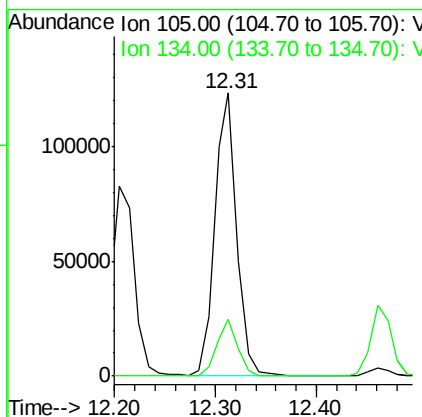
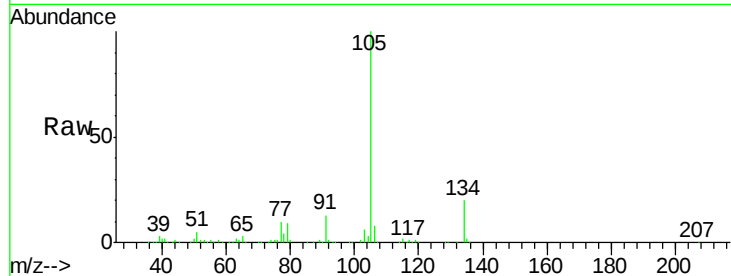
#85
 sec-Butylbenzene
 Concen: 9.432 ug/l
 RT: 12.31 min Scan# 1185
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.8	32.4

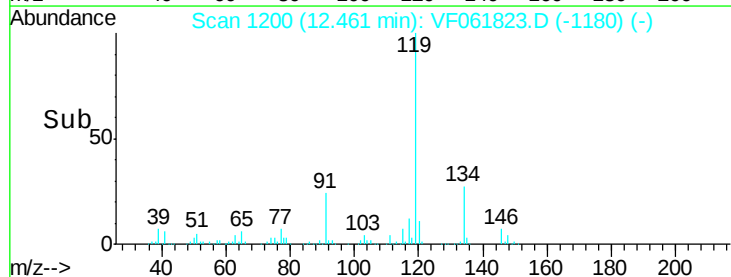
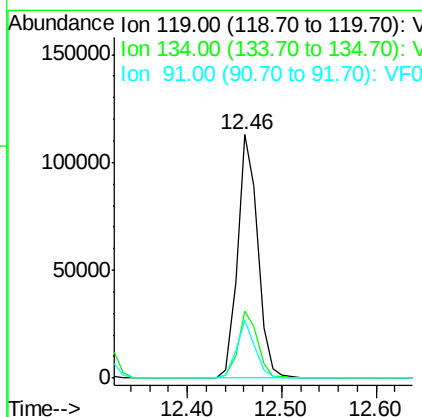
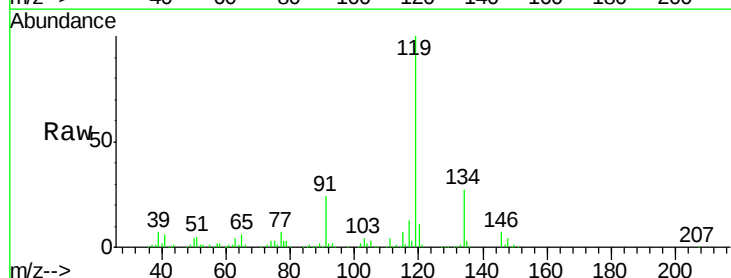
Manual Integrations
 APPROVED

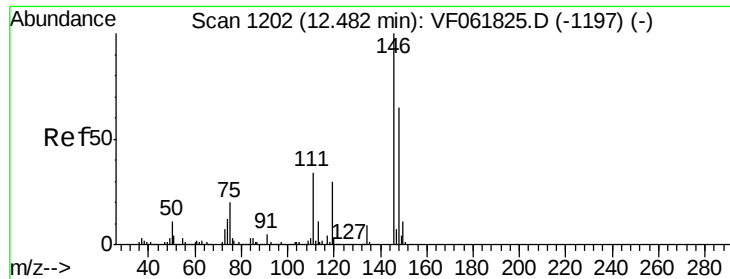
MMDadoda
 3/5/2019 10:47:13 AM



#86
 p-Isopropyltoluene
 Concen: 10.077 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.3	13.7	41.1
91	23.9	10.8	32.4





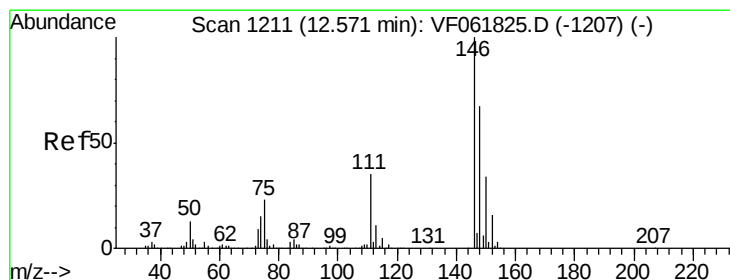
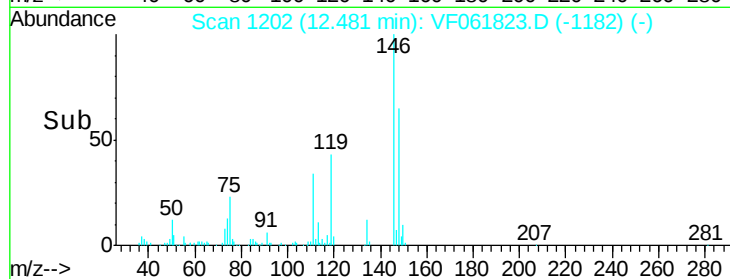
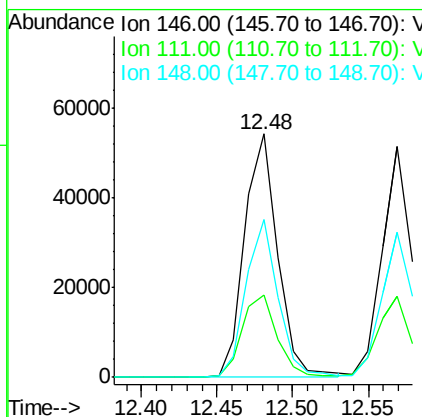
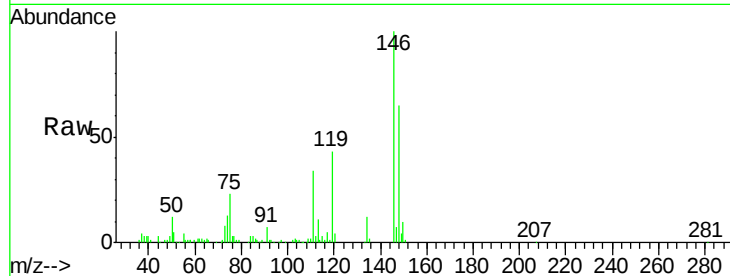
#87
 1,3-Dichlorobenzene
 Concen: 9.986 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.0	17.5	52.6
148	64.9	31.4	94.3

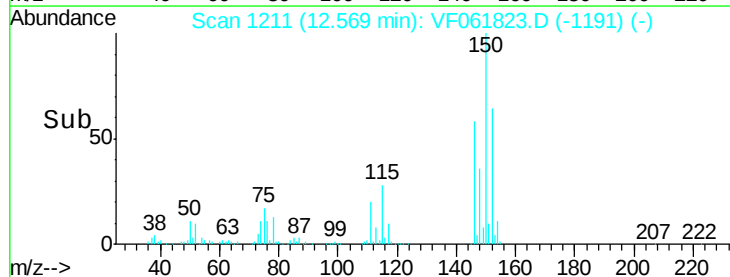
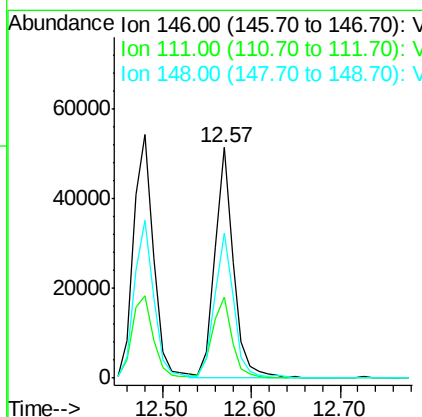
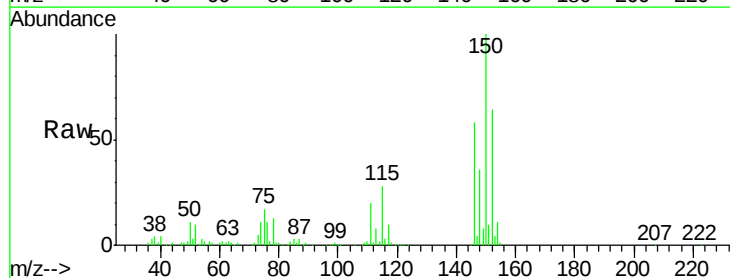
Manual Integrations
 APPROVED

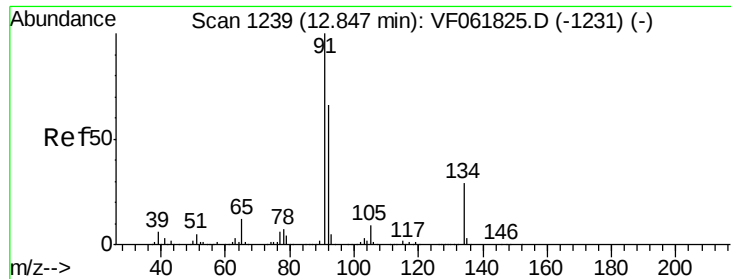
MMDadoda
 3/5/2019 10:47:13 AM



#88
 1,4-Dichlorobenzene
 Concen: 9.426 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.2	18.4	55.4
148	62.9	32.2	96.6





#89

n-Butylbenzene

Concen: 10.190 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

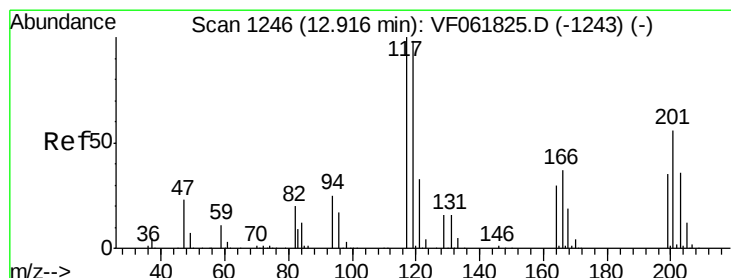
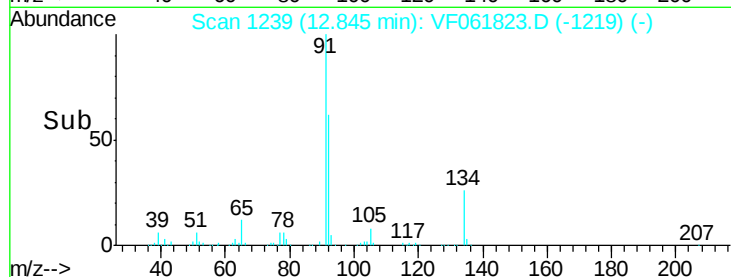
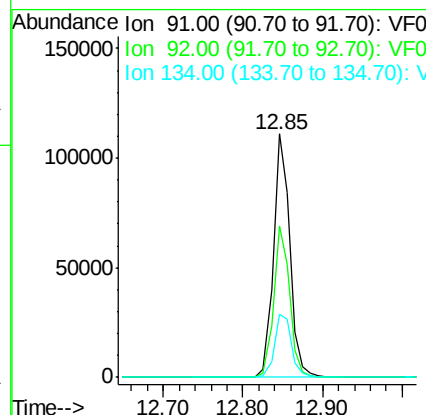
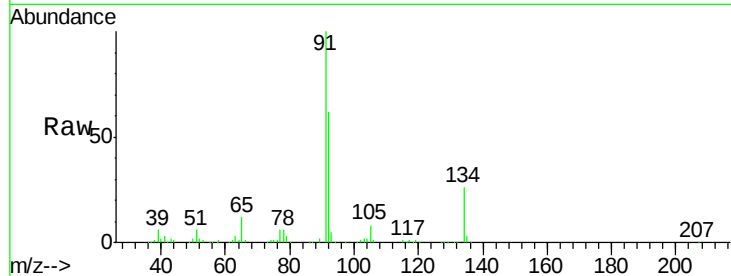
ClientSampleId :

VSTDIC010

Tot Ion:	91	Resp:	159279
Ion	Ratio	Lower	Upper
91	100		
92	62.3	31.4	94.3
134	26.0	12.3	36.9

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#90

Hexachloroethane

Concen: 9.469 ug/l

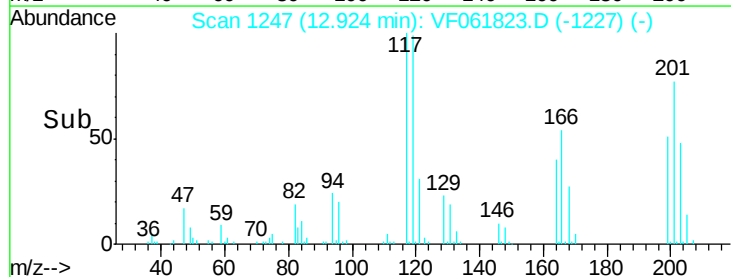
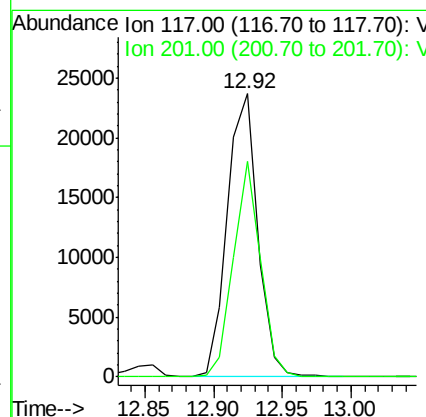
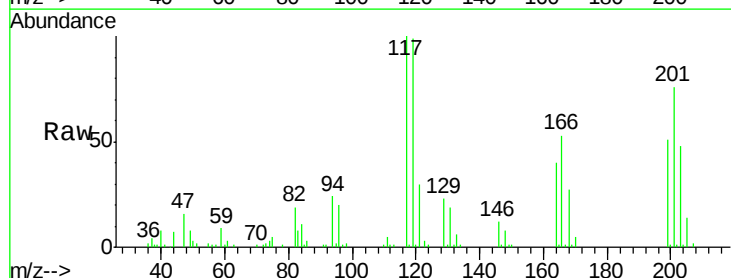
RT: 12.92 min Scan# 1247

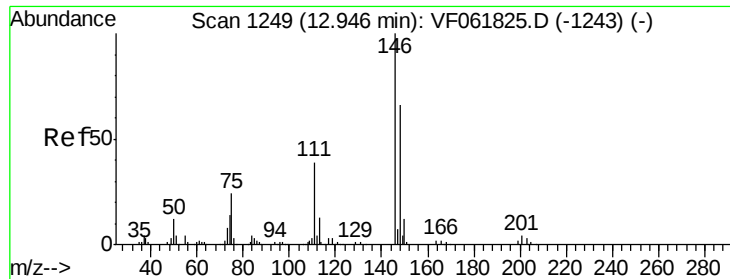
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	117	Resp:	36454
Ion	Ratio	Lower	Upper
117	100		
201	76.1	36.2	108.6





#91

1,2-Dichlorobenzene

Concen: 9.354 ug/l

RT: 12.94 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

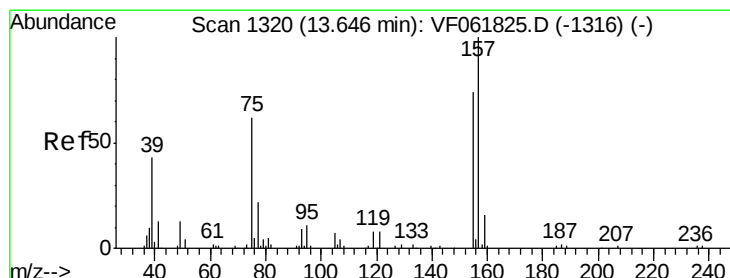
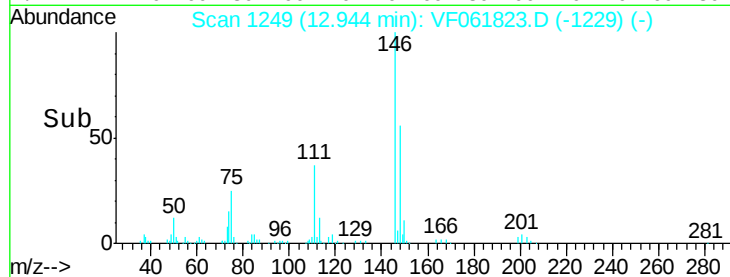
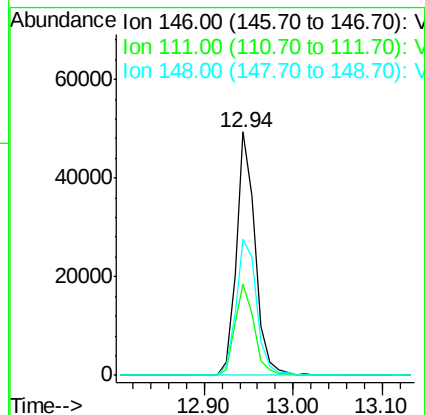
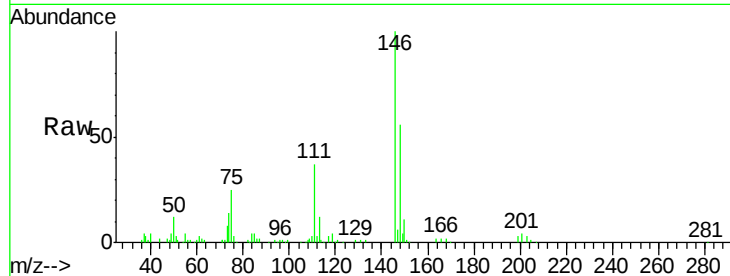
ClientSampleId :

VSTDIC010

Tot Ion:	146	Resp:	73824
Ion	Ratio	Lower	Upper
146	100		
111	37.3	20.2	60.5
148	56.0	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.221 ug/l

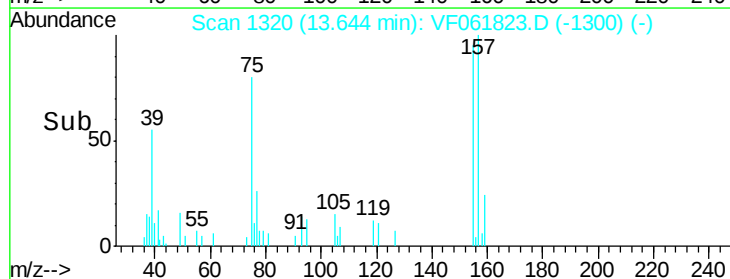
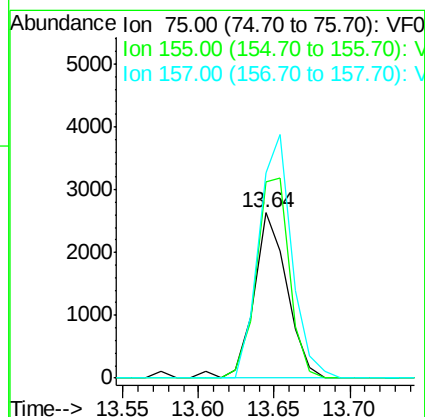
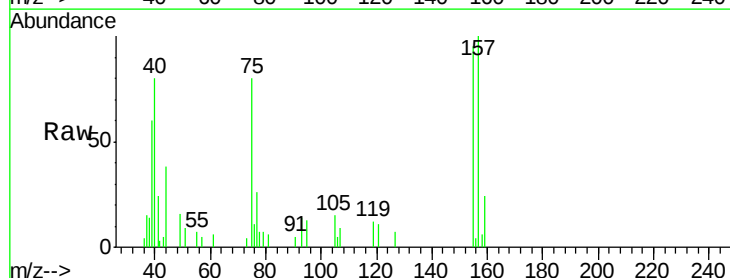
RT: 13.64 min Scan# 1320

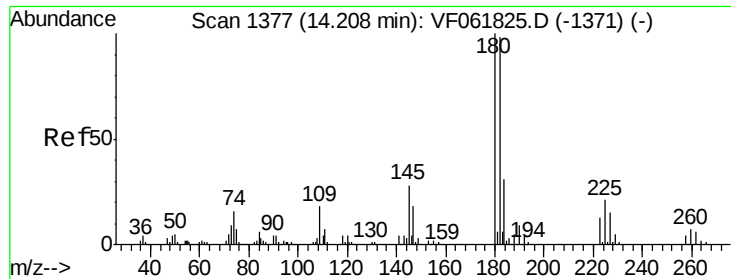
Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	75	Resp:	4023
Ion	Ratio	Lower	Upper
75	100		
155	119.0	48.9	146.8
157	124.7	58.3	174.8





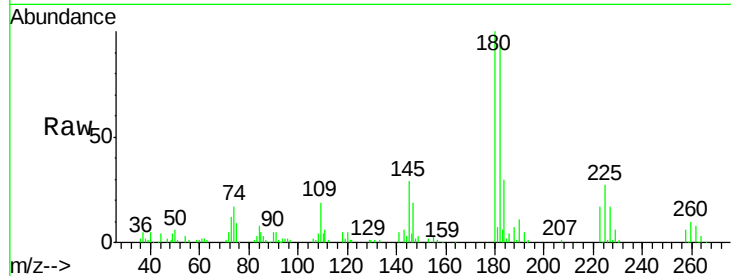
#93
 1,2,4-Trichlorobenzene
 Concen: 9.277 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

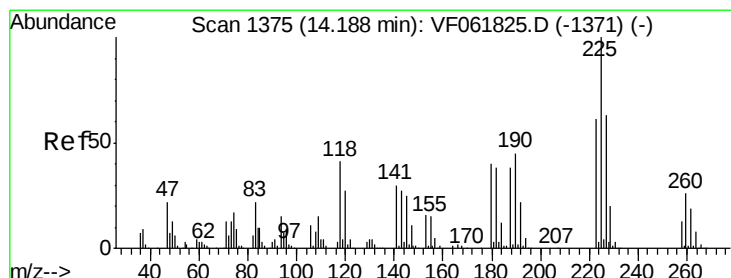
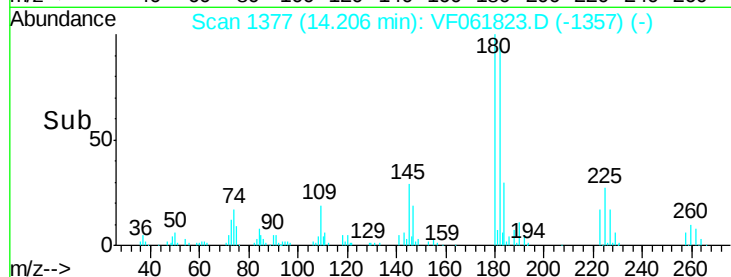
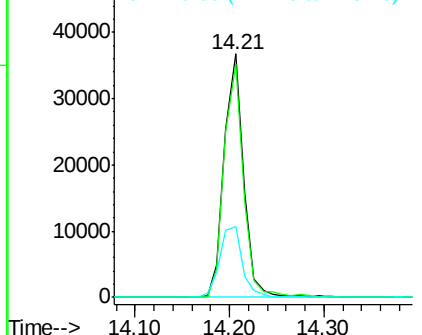
Tot Ion	Ratio	Resp	Lower	Upper
180	100	52480		
182	95.7	48.6	145.9	
145	29.2	15.3	45.9	

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM

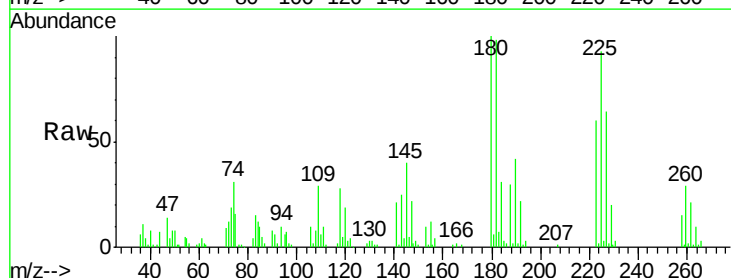


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

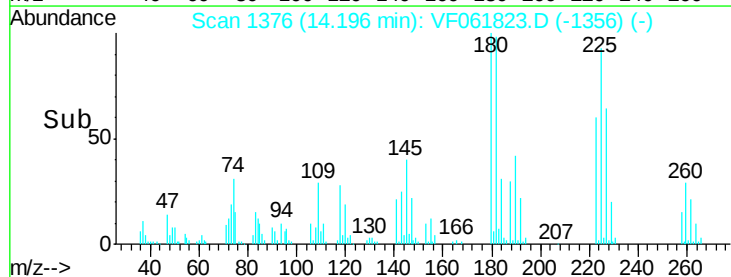
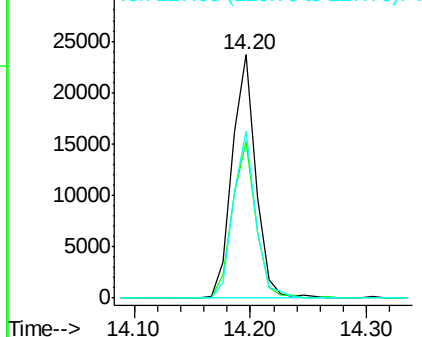


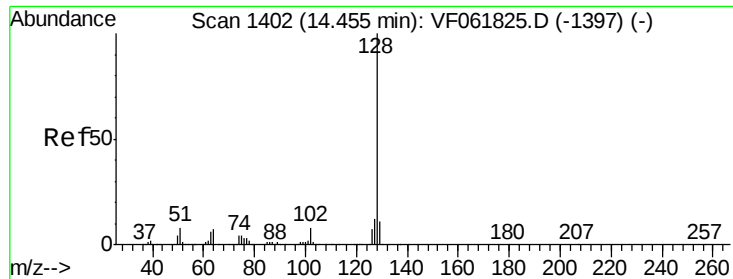
#94
 Hexachlorobutadiene
 Concen: 9.496 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061823.D
 Acq: 4 Mar 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	33176		
223	64.1	30.9	92.7	
227	68.3	32.1	96.3	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 8.344 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Instrument :

MSVOA_F

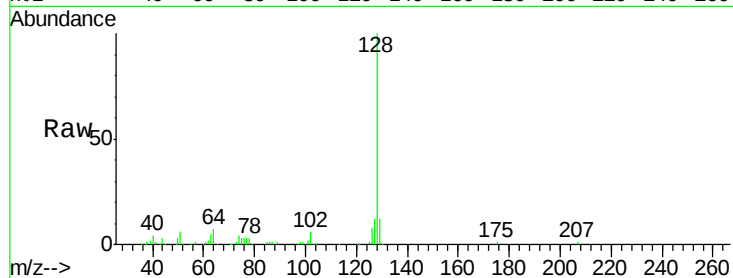
ClientSampleId :

VSTDIC010

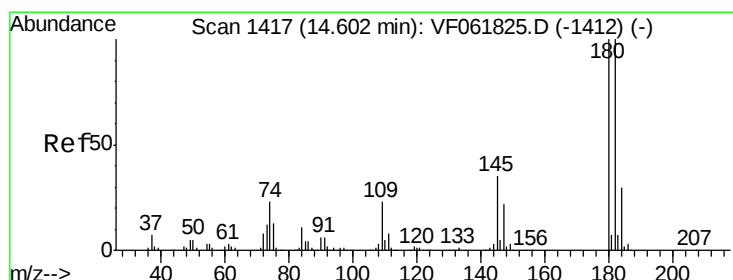
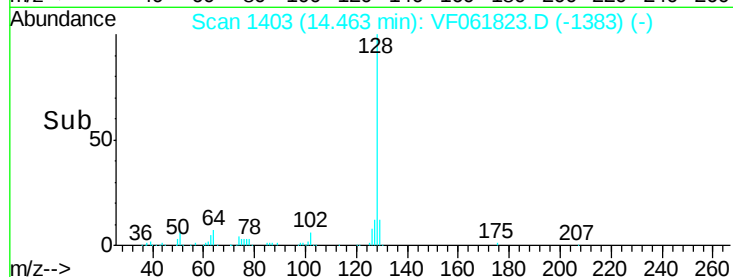
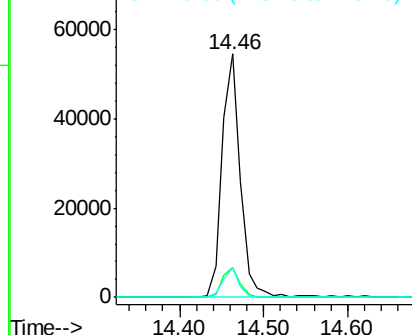
Tot Ion:	128	Resp:	82593
Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.8	14.6
129	12.2	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:47:13 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 8.499 ug/l

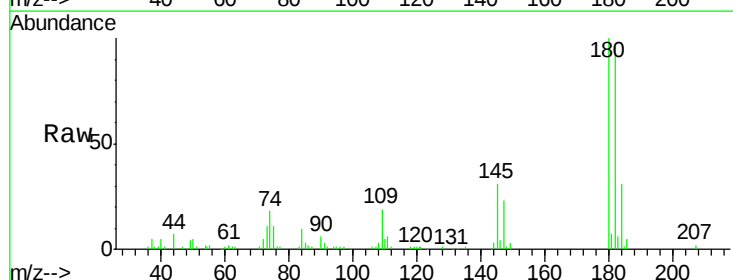
RT: 14.61 min Scan# 1418

Delta R.T. -0.00 min

Lab File: VF061823.D

Acq: 4 Mar 2019 16:33

Tgt Ion:	180	Resp:	44130
Ion	Ratio	Lower	Upper
180	100		
182	96.0	49.0	147.2
145	31.4	15.4	46.1



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

