

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061518.D
 Acq On : 25 Jan 2019 13:51
 Operator : VA/AP
 Sample : VF01251SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:48:12 PM

Quant Time: Jan 28 00:42:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	191269	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	347663	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	314377	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	159059	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	114362	48.43	ug/l	0.01
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	4.11	113	130852	47.70	ug/l	0.01
Spiked Amount	50.000		Recovery	=	95.40%	
50) Toluene-d8	7.56	98	352833	46.94	ug/l	0.01
Spiked Amount	50.000		Recovery	=	93.88%	
62) 4-Bromofluorobenzene	11.41	95	155229	44.20	ug/l	0.01
Spiked Amount	50.000		Recovery	=	88.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	65056	17.311	ug/l	88
3) Chloromethane	1.11	50	52072	18.897	ug/l	98
4) Vinyl Chloride	1.15	62	48043	19.599	ug/l	95
5) Bromomethane	1.32	94	30134	18.852	ug/l #	73
6) Chloroethane	1.40	64	21292	19.603	ug/l	96
7) Trichlorofluoromethane	1.48	101	80239	16.838	ug/l	87
8) Diethyl Ether	1.63	74	12771	20.915	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.84	101	40208	17.560	ug/l	92
10) Methyl Iodide	1.91	142	70181m	19.771	ug/l	
11) Tert butyl alcohol	2.58	59	11185	111.899	ug/l	99
12) 1,1-Dichloroethene	1.80	96	33061	19.435	ug/l	96
13) Acrolein	1.99	56	6935	87.555	ug/l	84
14) Allyl chloride	2.09	41	51858	26.460	ug/l	91
15) Acrylonitrile	2.94	53	27380	106.937	ug/l	94
16) Acetone	2.24	43	60858	128.464	ug/l	98
17) Carbon Disulfide	1.83	76	96302m	18.156	ug/l	
18) Methyl Acetate	2.35	43	18878	20.094	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	72401	18.986	ug/l	99
20) Methylene Chloride	2.18	84	36168m	21.489	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	31033	16.580	ug/l #	75
22) Diisopropyl ether	2.80	45	125196	20.681	ug/l	99
23) Vinyl Acetate	3.19	43	293668	112.072	ug/l	98
24) 1,1-Dichloroethane	2.87	63	74551	19.621	ug/l	97
25) 2-Butanone	4.33	43	94176	119.542	ug/l	98
26) 2,2-Dichloropropane	3.60	77	41556	17.802	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	53680	19.429	ug/l	96
28) Bromochloromethane	3.72	49	37857	22.166	ug/l #	95
29) Tetrahydrofuran	4.08	42	35454	104.515	ug/l	98
30) Chloroform	3.87	83	102203	19.932	ug/l	96
31) Cyclohexane	3.69	56	74626m	19.662	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	62481	16.618	ug/l	94
36) 1,1-Dichloropropene	4.28	75	75551	18.743	ug/l	95
37) Ethyl Acetate	4.11	43	34662	21.512	ug/l #	78
38) Carbon Tetrachloride	4.00	117	60878	17.275	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061518.D
 Acq On : 25 Jan 2019 13:51
 Operator : VA/AP
 Sample : VF01251SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:48:12 PM

Quant Time: Jan 28 00:42:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	77655	17.776	ug/l	95
40) Benzene	4.64	78	178761	19.930	ug/l	100
41) Methacrylonitrile	4.76	41	17385	20.277	ug/l #	82
42) 1,2-Dichloroethane	4.94	62	58557	18.320	ug/l	95
43) Isopropyl Acetate	6.97	43	38915	19.243	ug/l #	90
44) Trichloroethene	5.51	130	56817	20.649	ug/l	97
45) 1,2-Dichloropropane	6.24	63	48243	20.493	ug/l	100
46) Dibromomethane	6.09	93	27997	17.886	ug/l	90
47) Bromodichloromethane	6.39	83	75933	19.606	ug/l	98
48) Methyl methacrylate	6.73	41	24854	18.302	ug/l	91
49) 1,4-Dioxane	6.71	88	3805	356.753	ug/l #	85
51) 4-Methyl-2-Pentanone	8.26	43	158129	106.361	ug/l	99
52) Toluene	7.63	92	104341	17.665	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	58768	19.109	ug/l	92
54) cis-1,3-Dichloropropene	7.30	75	79998	20.811	ug/l	95
55) 1,1,2-Trichloroethane	8.49	97	33495	19.969	ug/l	96
56) Ethyl methacrylate	8.62	69	35803	18.346	ug/l	95
57) 1,3-Dichloropropane	8.86	76	57769	18.374	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.30	63	34271	176.555	ug/l	98
59) 2-Hexanone	9.49	43	123920	119.531	ug/l	96
60) Dibromochloromethane	8.72	129	45009	18.354	ug/l	97
61) 1,2-Dibromoethane	8.99	107	36565	19.042	ug/l	91
64) Tetrachloroethene	8.16	164	44209	18.700	ug/l	97
65) Chlorobenzene	9.80	112	123986	19.394	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	50782	19.940	ug/l	98
67) Ethyl Benzene	9.90	91	231203	19.794	ug/l	97
68) m/p-Xylenes	10.13	106	168173	40.031	ug/l	98
69) o-Xylene	10.71	106	88183	19.367	ug/l	94
70) Styrene	10.79	104	124401	19.960	ug/l	98
71) Bromoform	10.77	173	23061	20.153	ug/l	98
73) Isopropylbenzene	11.13	105	265627	20.533	ug/l	99
74) N-amyl acetate	11.37	43	75089	24.547	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	47529	20.623	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	35185	21.247	ug/l	99
77) Bromobenzene	11.49	156	53362	19.532	ug/l	85
78) n-propylbenzene	11.59	91	317170	18.775	ug/l	96
79) 2-Chlorotoluene	11.72	91	172198	19.185	ug/l	93
80) 1,3,5-Trimethylbenzene	11.83	105	216254	20.714	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.87	75	14847m	20.625	ug/l	
82) 4-Chlorotoluene	11.90	91	181588	20.048	ug/l	94
83) tert-Butylbenzene	12.13	119	226640	20.974	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	221914	20.636	ug/l	91
85) sec-Butylbenzene	12.30	105	306222	20.868	ug/l	95
86) p-Isopropyltoluene	12.46	119	253610	21.053	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	109452	19.047	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	101331	19.627	ug/l	98
89) n-Butylbenzene	12.84	91	258520	20.809	ug/l	96
90) Hexachloroethane	12.91	117	57646	20.301	ug/l	85
91) 1,2-Dichlorobenzene	12.94	146	96976	18.974	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8204	20.070	ug/l	80

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
Data File : VF061518.D
Acq On : 25 Jan 2019 13:51
Operator : VA/AP
Sample : VF01251SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM

Quant Time: Jan 28 00:42:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	69275	19.349	ug/l	93
94) Hexachlorobutadiene	14.19	225	39779	17.905	ug/l	97
95) Naphthalene	14.45	128	125935	18.514	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	61334	18.506	ug/l	98

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

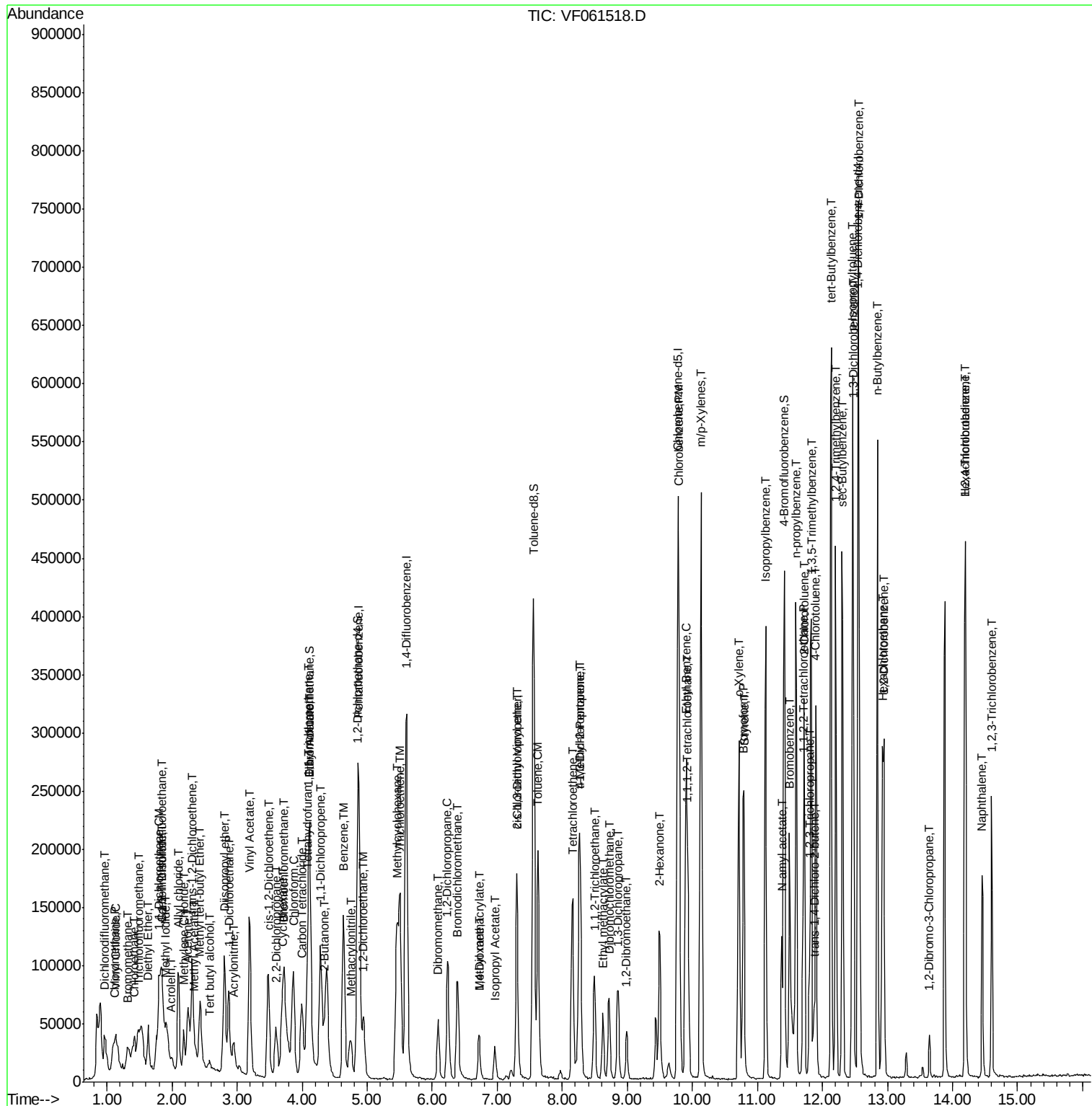
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012519\
Data File : VF061518.D
Acq On : 25 Jan 2019 13:51
Operator : VA/AP
Sample : VF01251SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

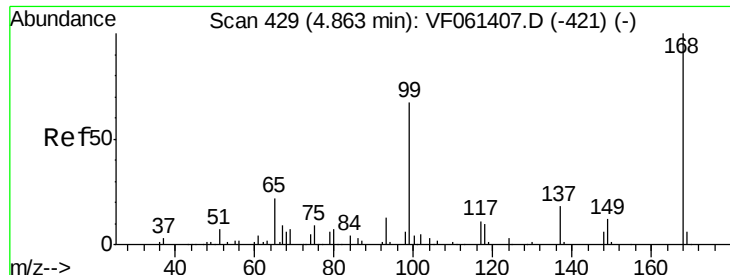
Instrument :
MSVOA_F
Client Sample Id :
VF01251SBS01

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM

Quant Time: Jan 28 00:42:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion:168 Resp: 191269

Ion Ratio Lower Upper

168 100

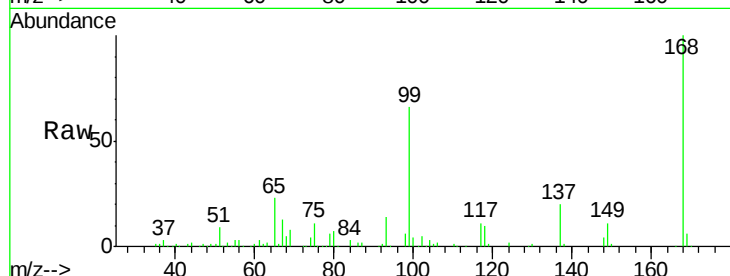
99 66.0 53.5 80.3

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

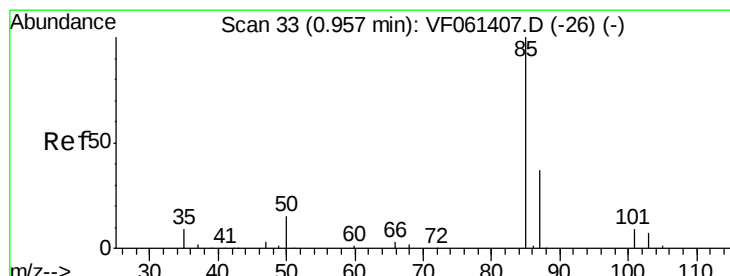
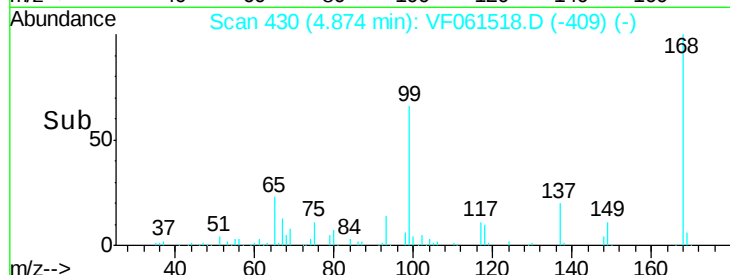
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 17.311 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061518.D

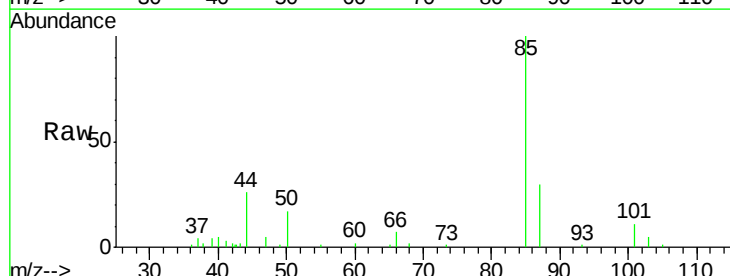
Acq: 25 Jan 2019 13:51

Tgt Ion: 85 Resp: 65056

Ion Ratio Lower Upper

85 100

87 29.8 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

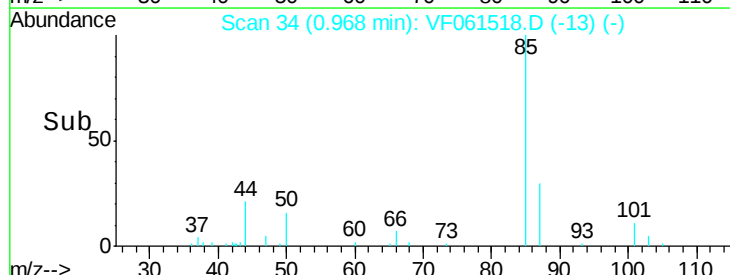
15000

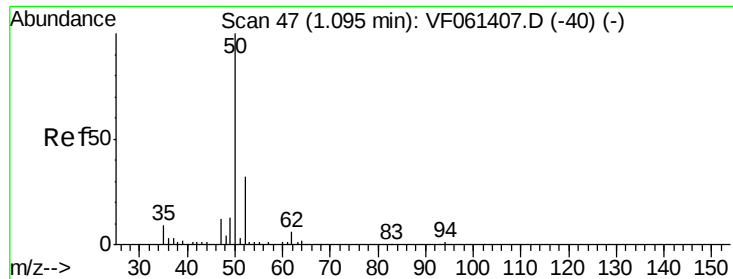
10000

5000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 18.897 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 50 Resp: 52072

Ion Ratio Lower Upper

50 100

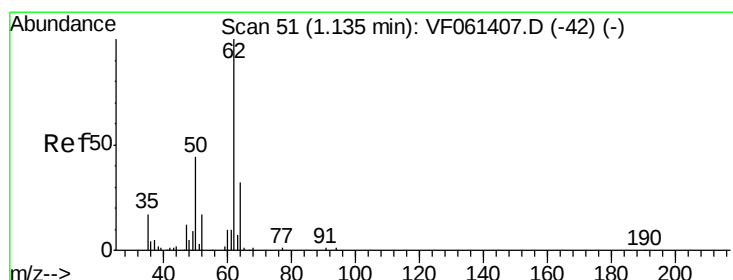
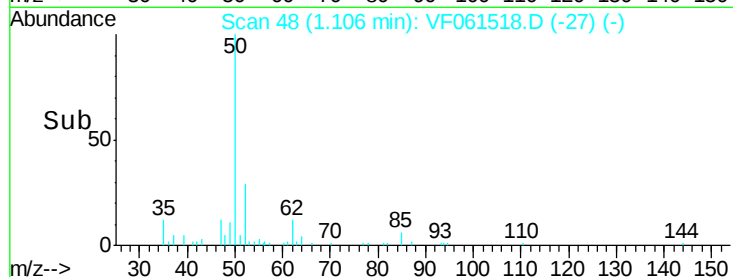
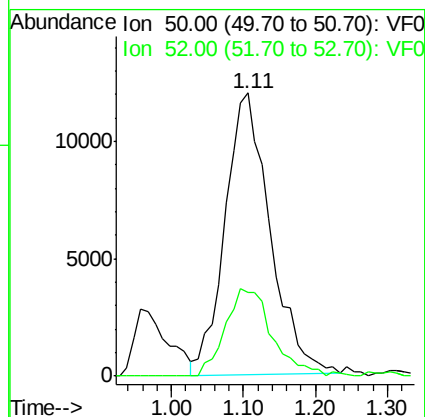
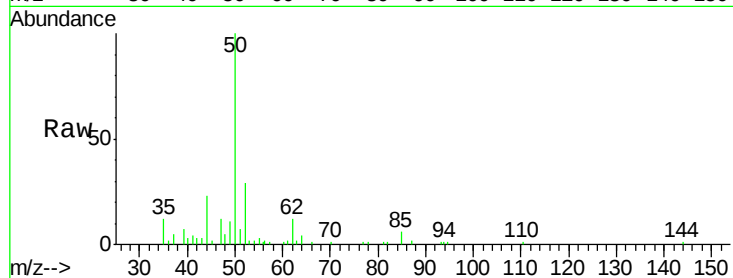
52 29.5 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#4

Vinyl Chloride

Concen: 19.599 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061518.D

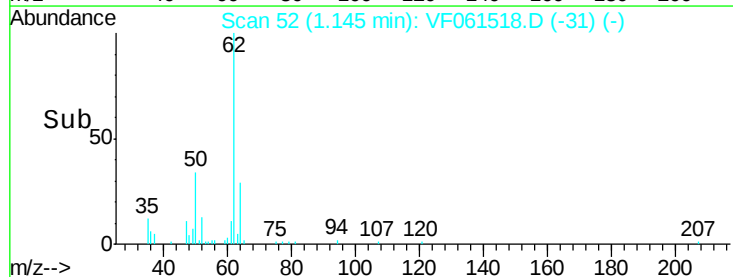
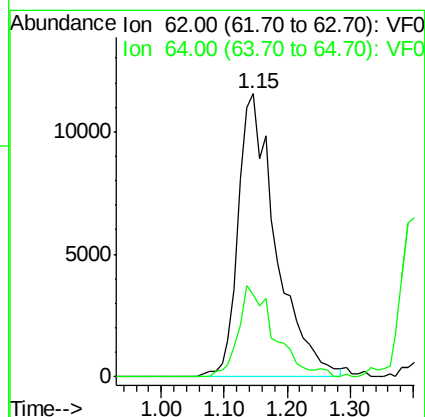
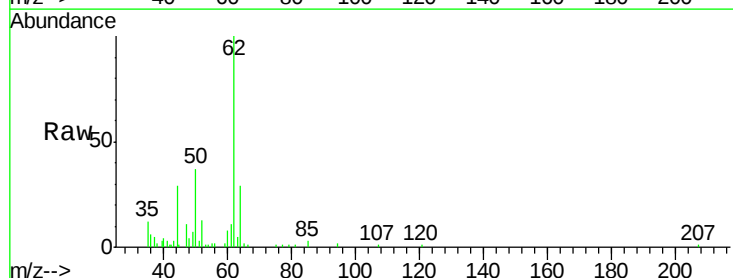
Acq: 25 Jan 2019 13:51

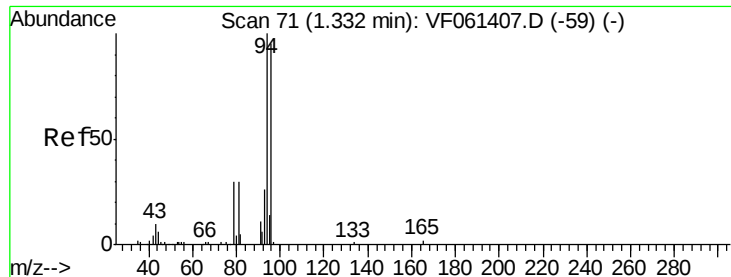
Tgt Ion: 62 Resp: 48043

Ion Ratio Lower Upper

62 100

64 29.3 25.6 38.4





#5

Bromomethane

Concen: 18.852 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 94 Resp: 30134

Ion Ratio Lower Upper

94 100

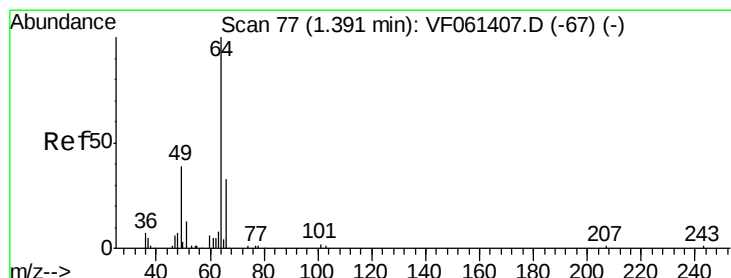
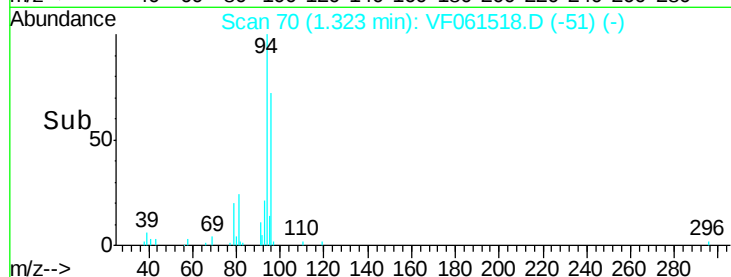
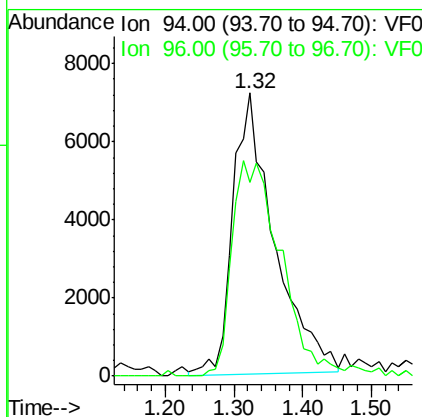
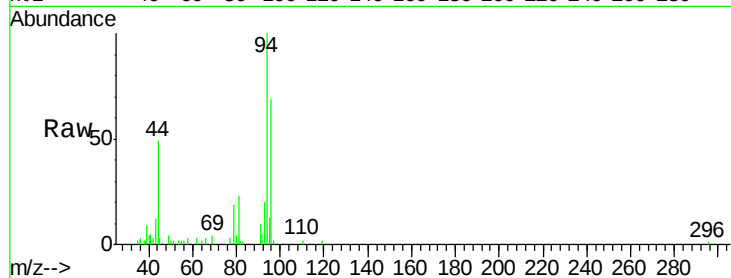
96 68.6 76.0 114.0#

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#6

Chloroethane

Concen: 19.603 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF061518.D

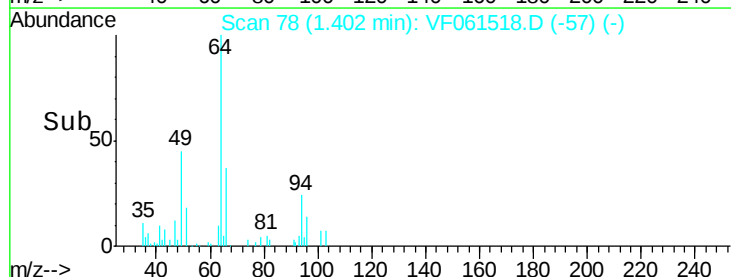
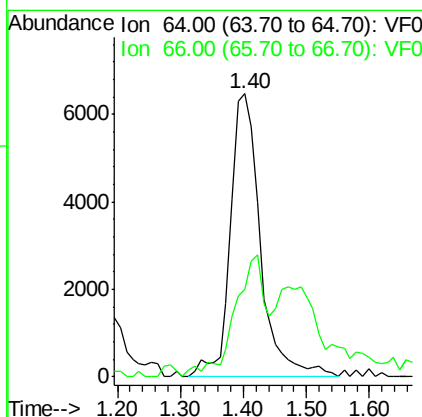
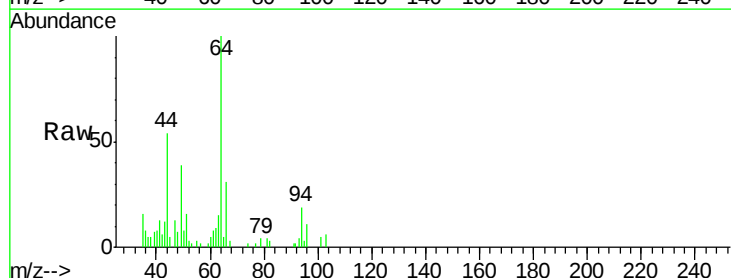
Acq: 25 Jan 2019 13:51

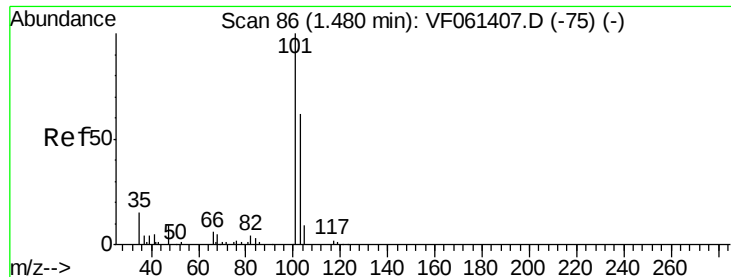
Tgt Ion: 64 Resp: 21292

Ion Ratio Lower Upper

64 100

66 31.1 26.6 40.0





#7

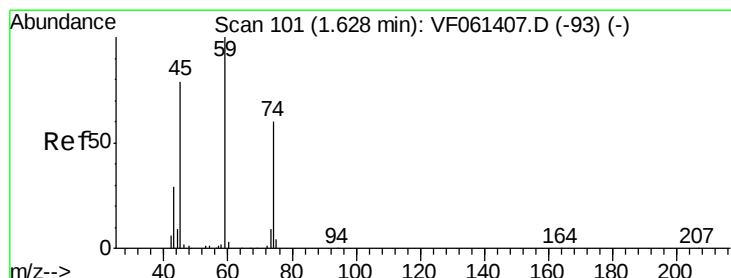
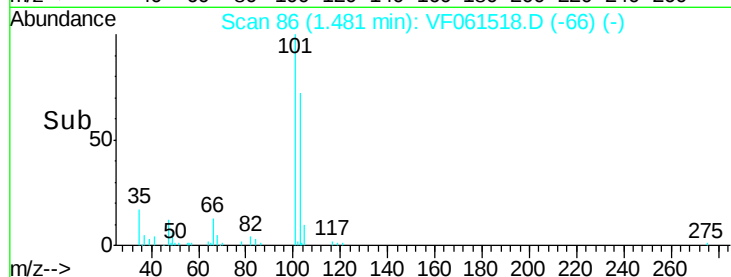
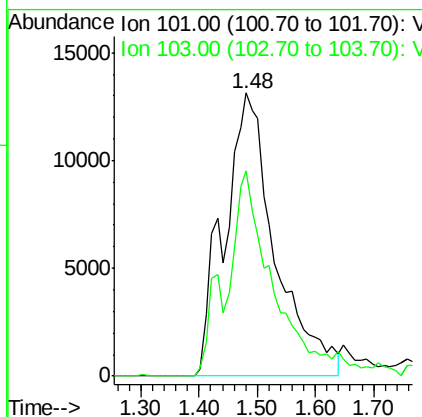
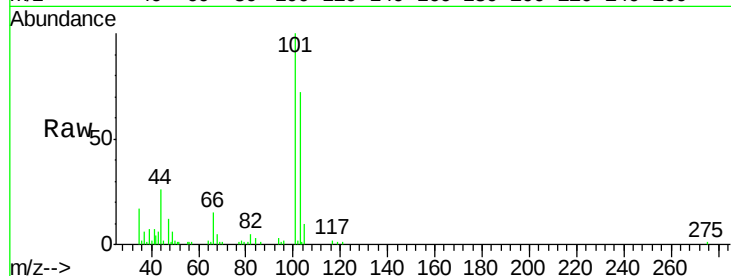
Trichlorofluoromethane
 Concen: 16.838 ug/l
 RT: 1.48 min Scan# 86
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	72.5	49.7	74.5

Manual Integrations
 APPROVED

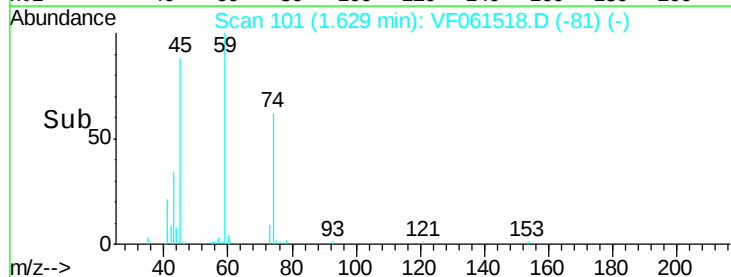
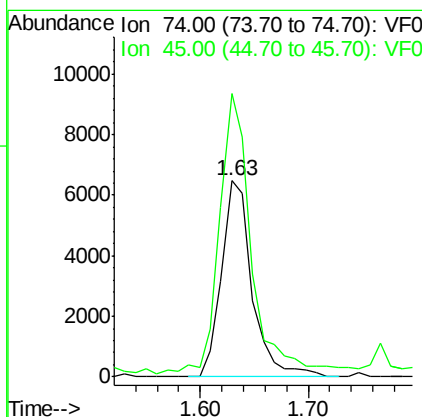
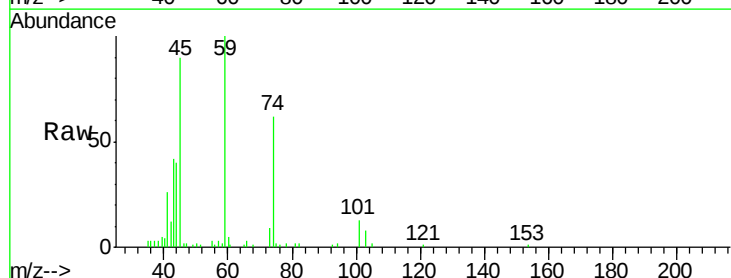
MMDadoda
 1/28/2019 12:48:12 PM

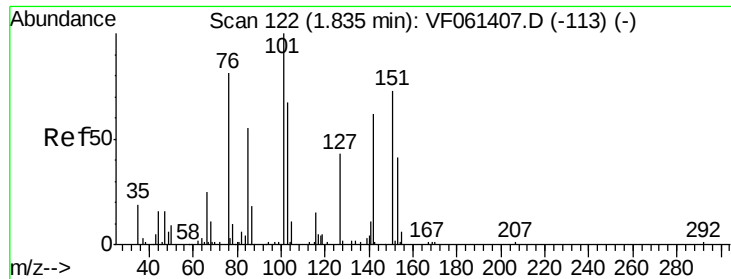


#8

Diethyl Ether
 Concen: 20.915 ug/l
 RT: 1.63 min Scan# 101
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	144.6	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.560 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

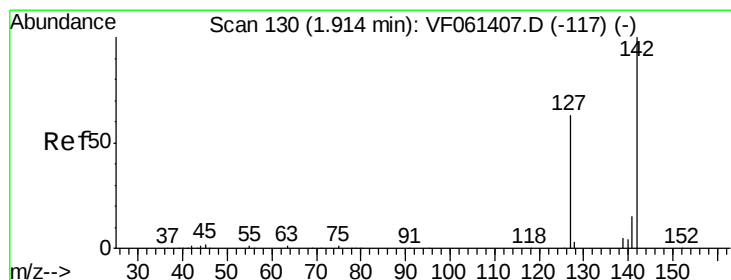
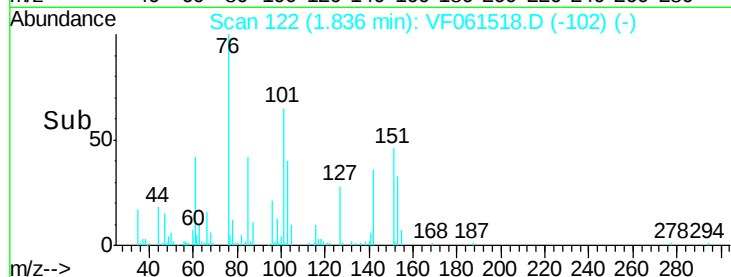
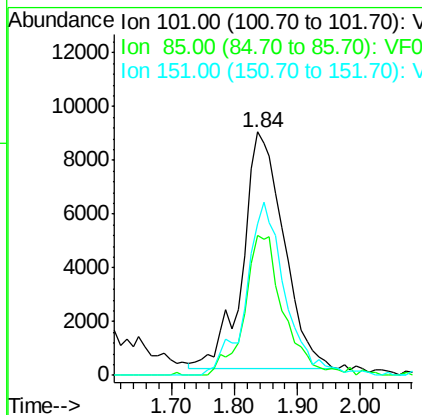
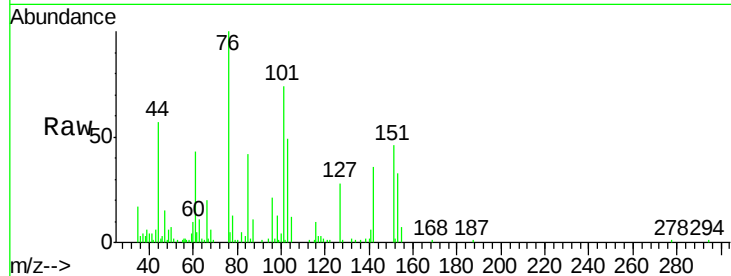
ClientSampleId :

VF01251SBS01

Tot Ion:	101	Resp:	40208
Ion Ratio	Lower	Upper	
101	100		
85	57.5	41.9	62.9
151	62.2	55.1	82.7

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#10

Methyl Iodide

Concen: 19.771 ug/l m

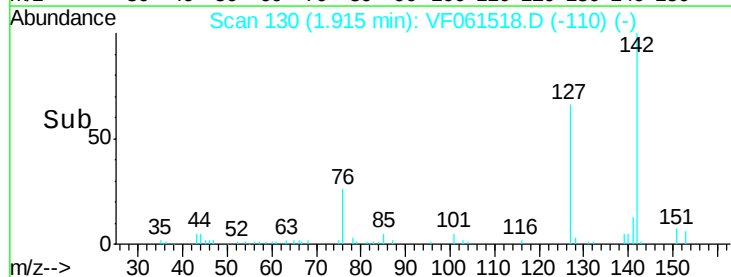
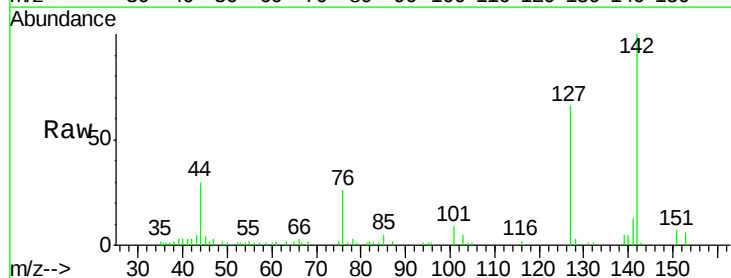
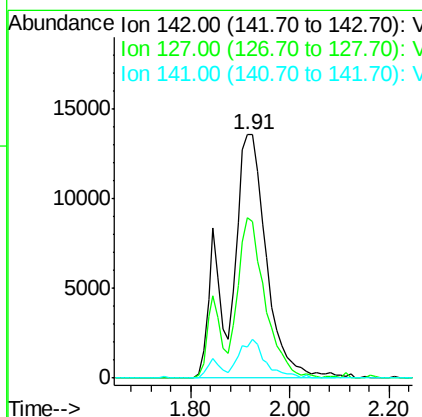
RT: 1.91 min Scan# 130

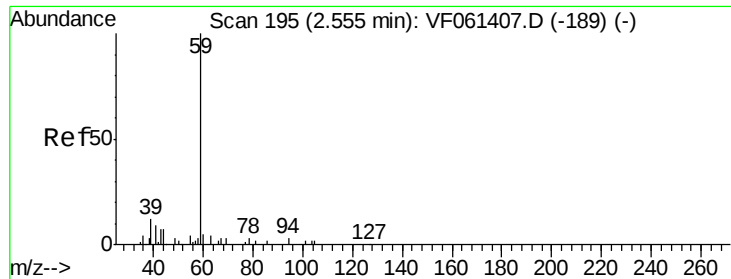
Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	142	Resp:	70181
Ion Ratio	Lower	Upper	
142	100		
127	65.7	50.7	76.1
141	12.7	11.8	17.6





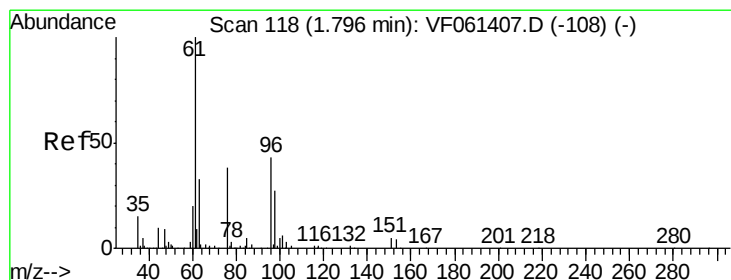
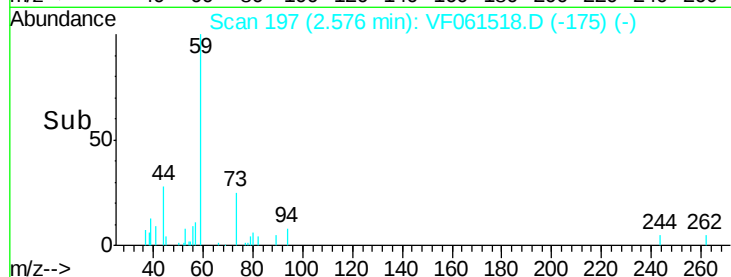
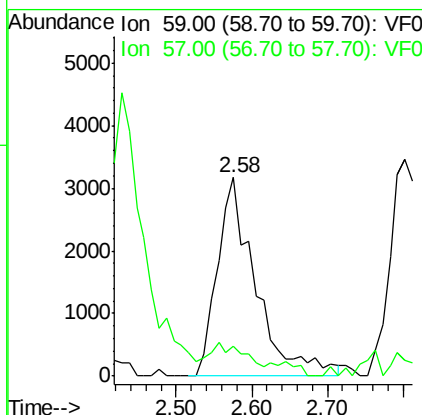
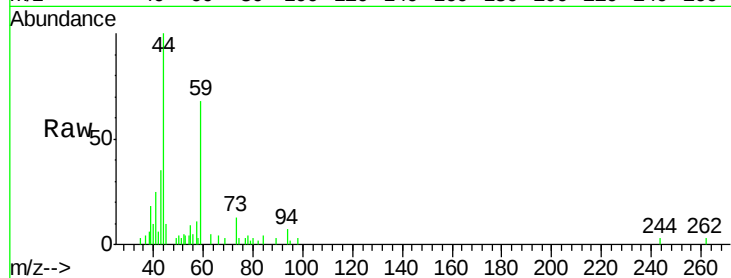
#11
Tert butyl alcohol
Concen: 111.899 ug/l
RT: 2.58 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion: 59 Resp: 11185
Ion Ratio Lower Upper
59 100
57 15.4 11.9 17.9

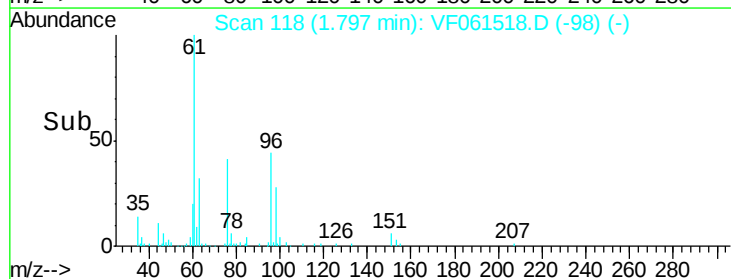
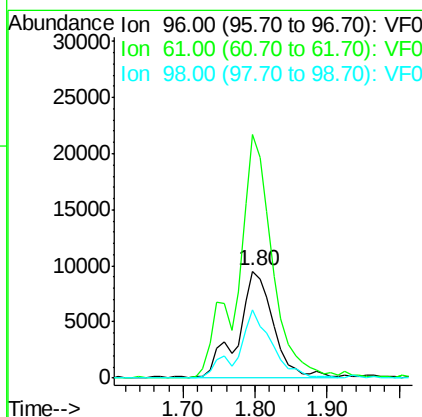
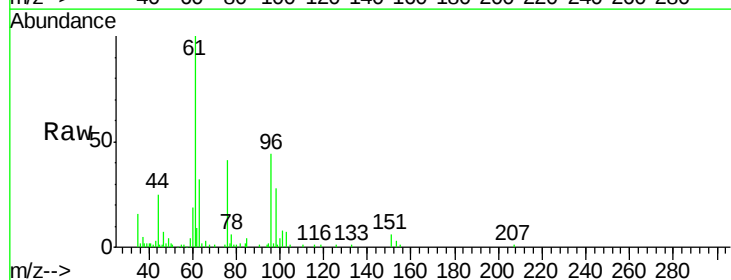
Manual Integrations
APPROVED

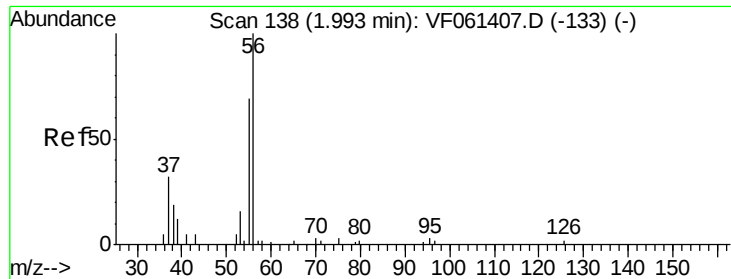
MMDadoda
1/28/2019 12:48:12 PM



#12
1,1-Dichloroethene
Concen: 19.435 ug/l
RT: 1.80 min Scan# 118
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion: 96 Resp: 33061
Ion Ratio Lower Upper
96 100
61 227.3 186.9 280.3
98 64.0 53.0 79.4





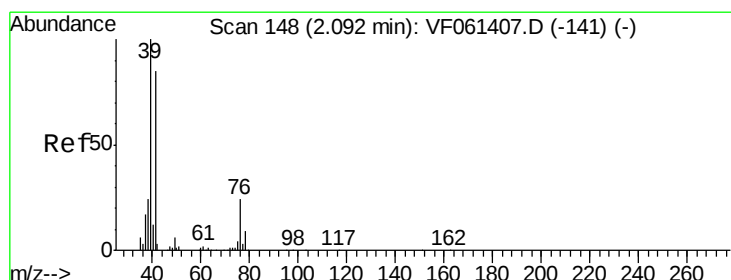
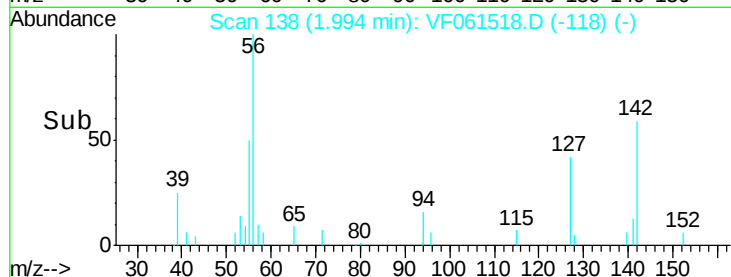
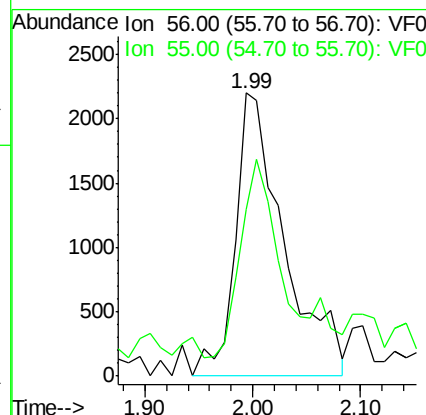
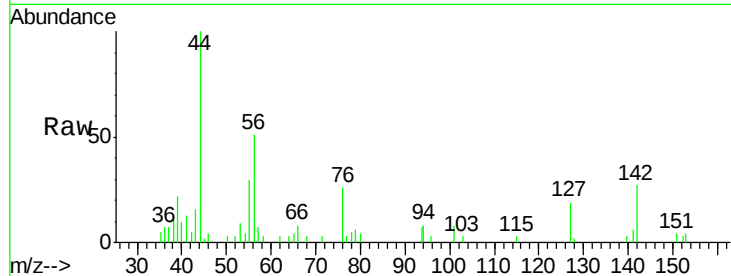
#13
Acrolein
Concen: 87.555 ug/l
RT: 1.99 min Scan# 138
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	56	Resp	6935
Ion Ratio	100	Lower	Upper
55	58.8	57.5	86.3

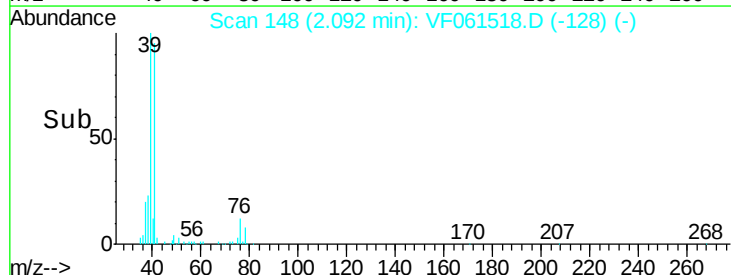
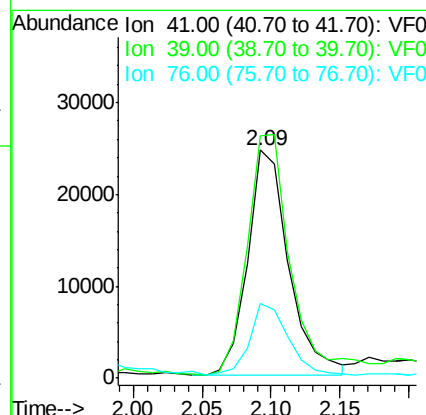
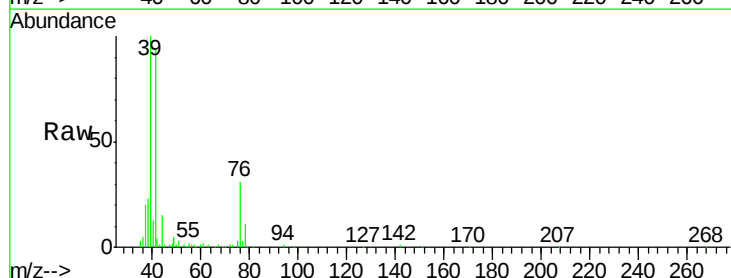
Manual Integrations
APPROVED

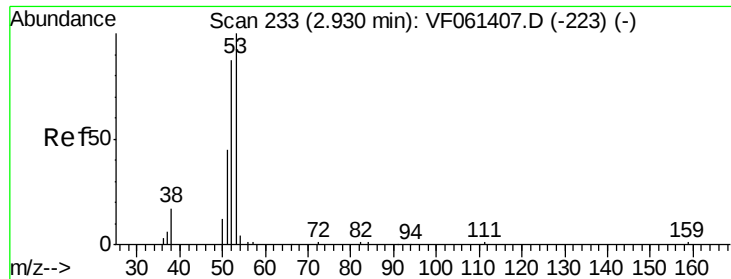
MMDadoda
1/28/2019 12:48:12 PM



#14
Allyl chloride
Concen: 26.460 ug/l
RT: 2.09 min Scan# 148
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	41	Resp	51858
Ion Ratio	100	Lower	Upper
39	106.0	94.6	141.8
76	32.7	25.9	38.9





#15

Acrylonitrile

Concen: 106.937 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

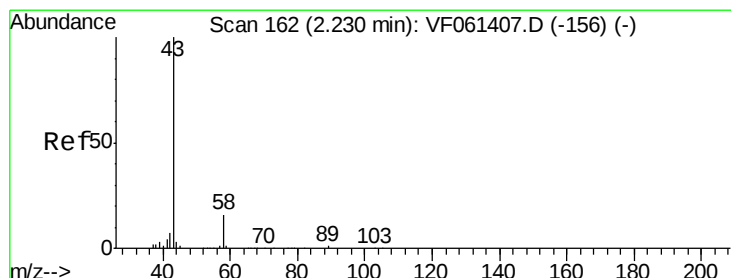
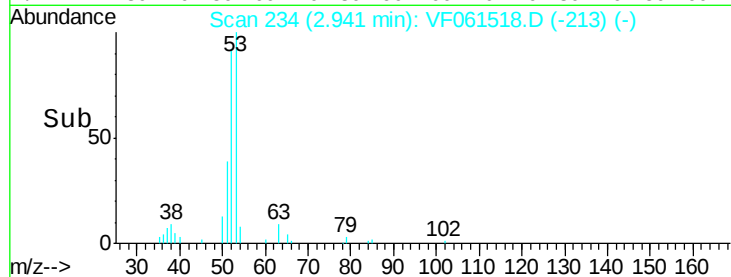
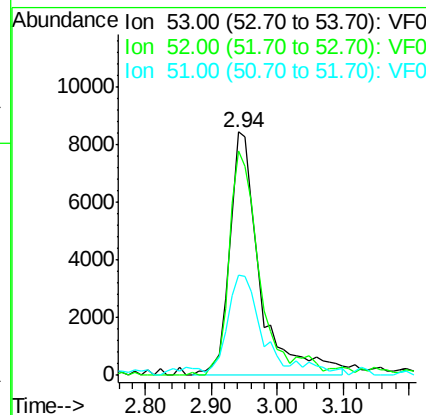
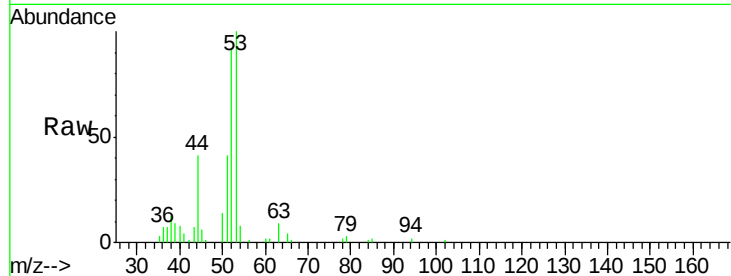
ClientSampleId :

VF01251SBS01

Tot Ion:	53	Resp:	27380
Ion	Ratio	Lower	Upper
53	100		
52	92.0	69.6	104.4
51	41.3	36.8	55.2

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#16

Acetone

Concen: 128.464 ug/l

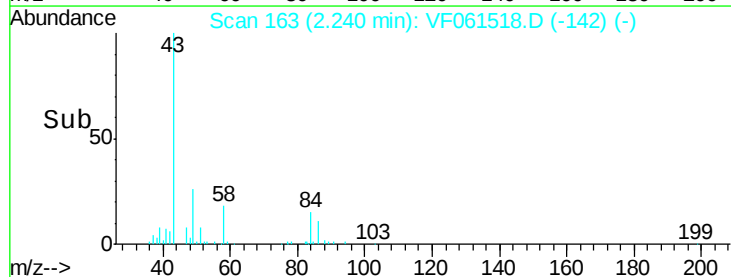
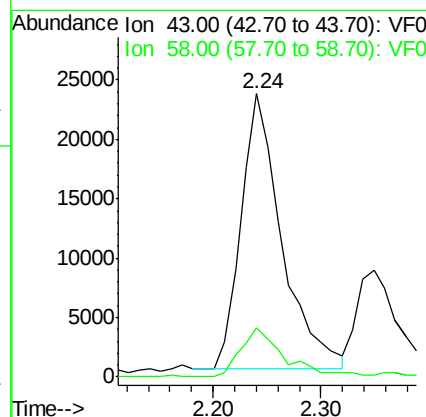
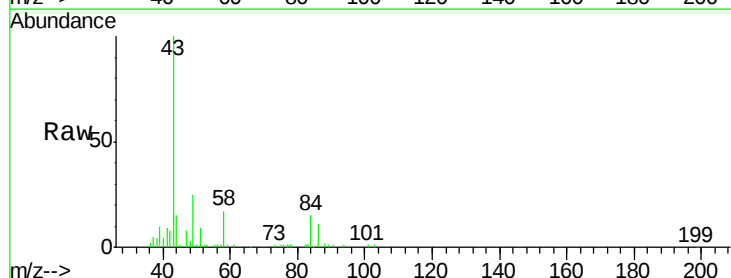
RT: 2.24 min Scan# 163

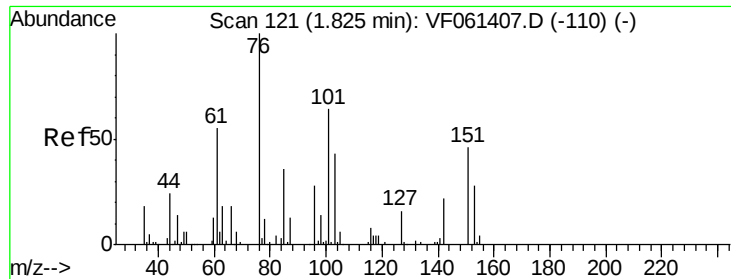
Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	43	Resp:	60858
Ion	Ratio	Lower	Upper
43	100		
58	17.3	13.3	19.9





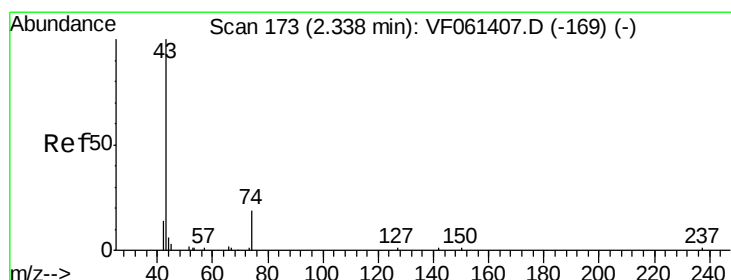
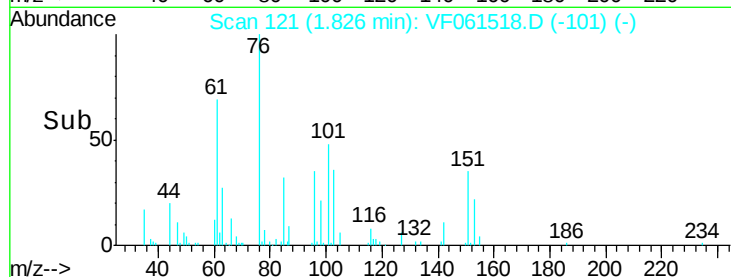
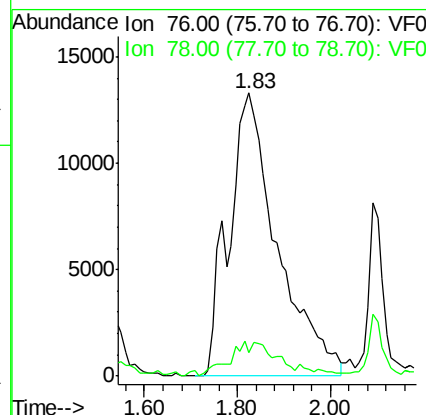
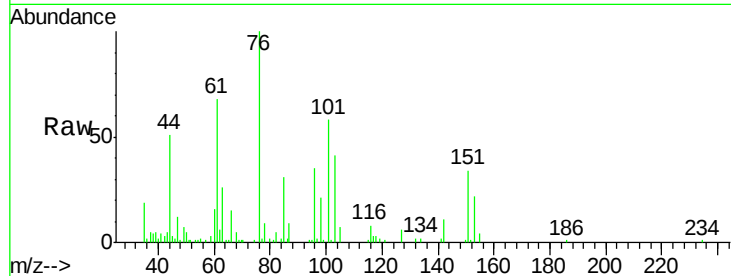
#17
Carbon Disulfide
Concen: 18.156 ug/l m
RT: 1.83 min Scan# 121
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion: 76 Resp: 96302
Ion Ratio Lower Upper
76 100
78 8.5 9.6 14.4#

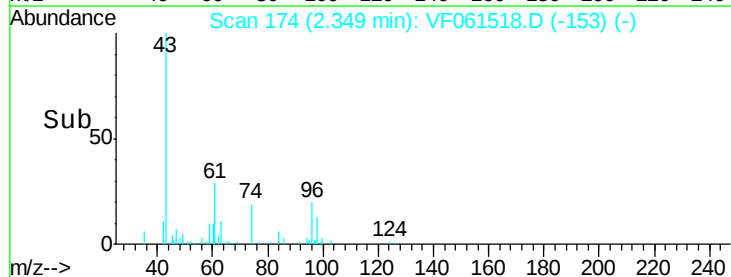
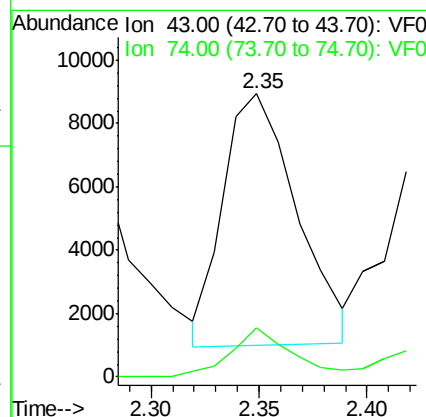
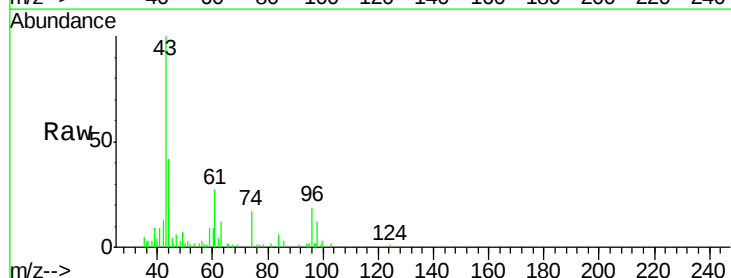
Manual Integrations
APPROVED

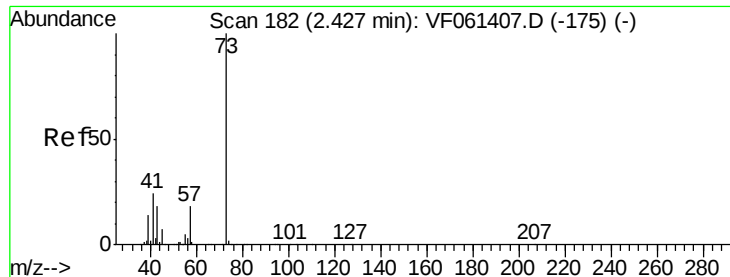
MMDadoda
1/28/2019 12:48:12 PM



#18
Methyl Acetate
Concen: 20.094 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion: 43 Resp: 18878
Ion Ratio Lower Upper
43 100
74 17.4 13.4 20.0





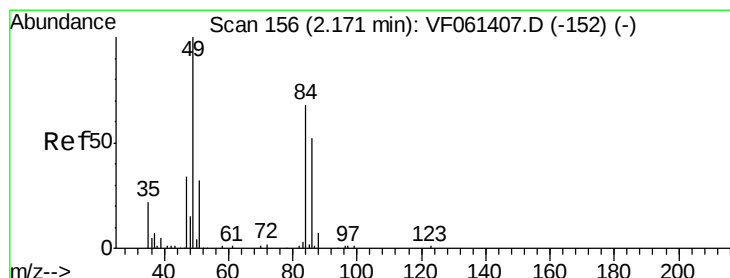
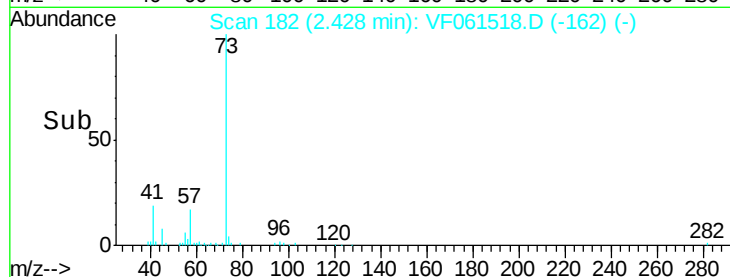
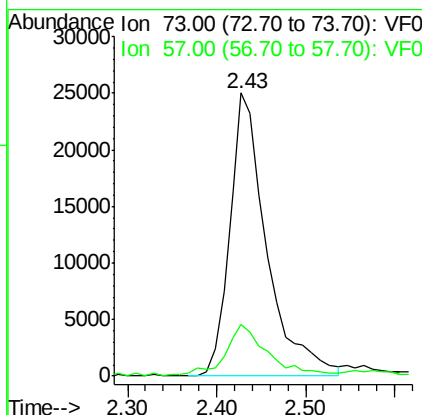
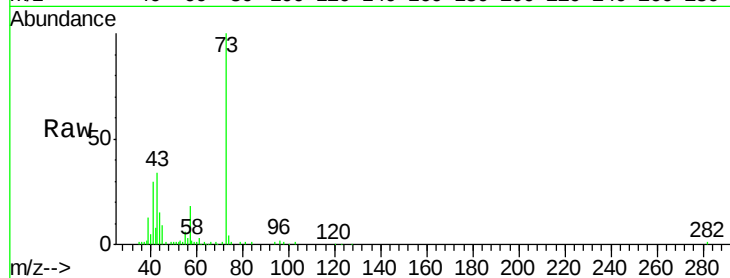
#19
Methyl tert-butyl Ether
Concen: 18.986 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.1	14.8	22.2

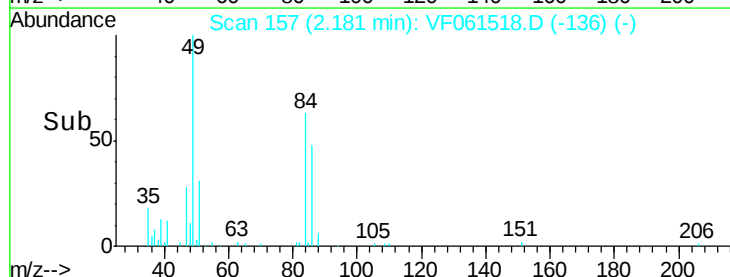
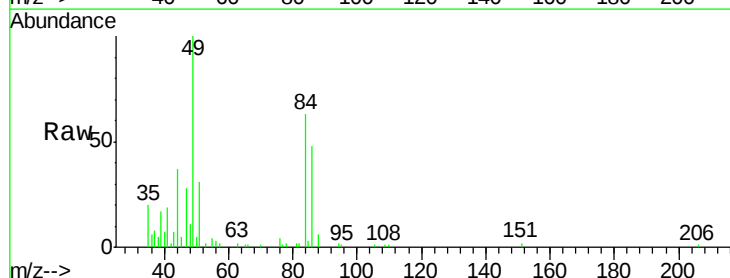
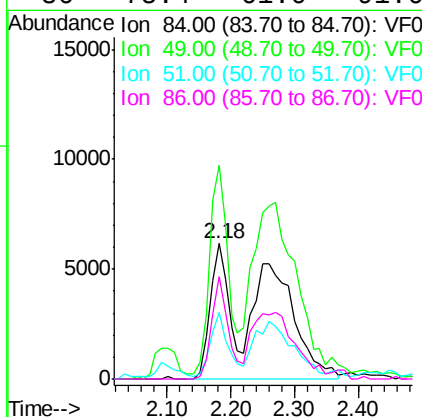
Manual Integrations
APPROVED

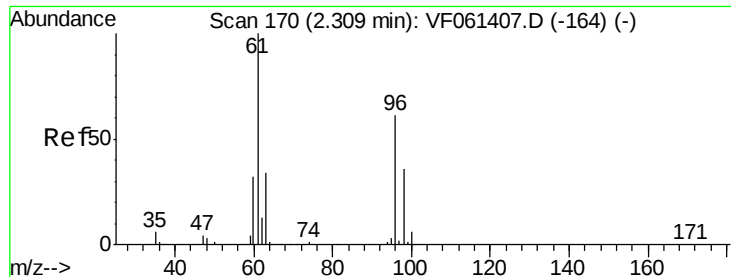
MMDadoda
1/28/2019 12:48:12 PM



#20
Methylene Chloride
Concen: 21.489 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.5	120.0	180.0
51	49.6	38.6	58.0
86	75.4	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 16.580 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

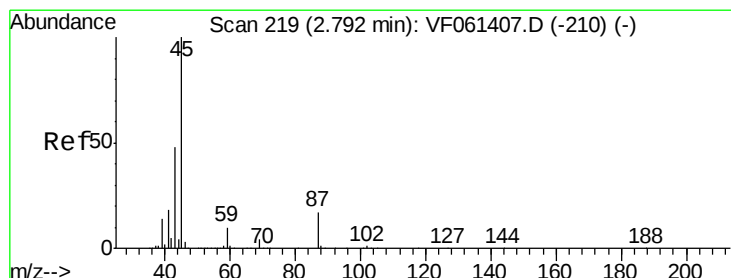
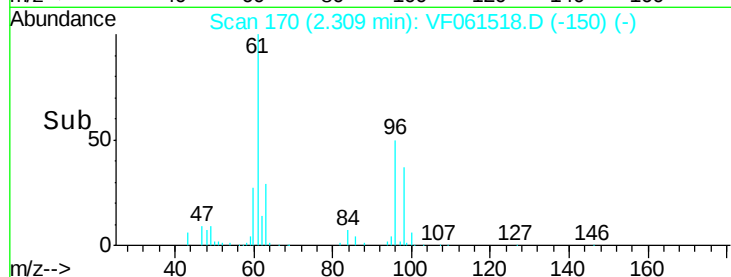
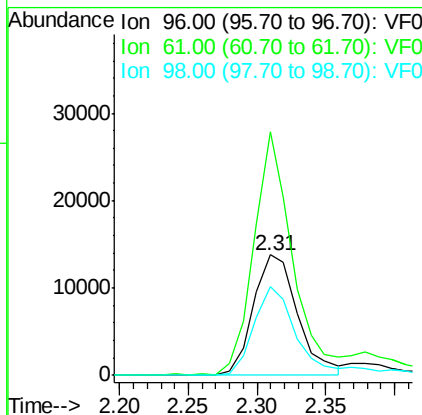
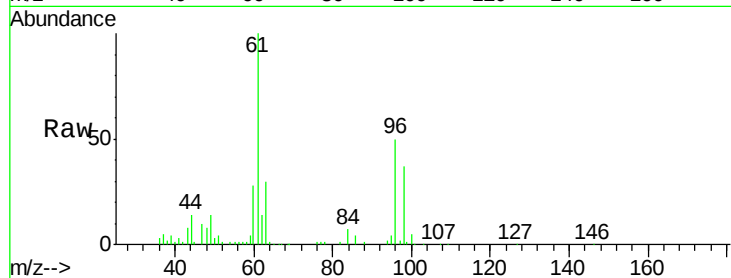
ClientSampleId :

VF01251SBS01

Tot Ion:	96	Resp:	31033
Ion	Ratio	Lower	Upper
96	100		
61	201.8	131.8	197.8#
98	74.0	47.4	71.0#

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#22

Diisopropyl ether

Concen: 20.681 ug/l

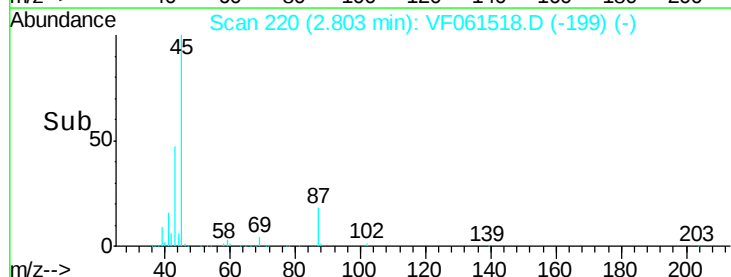
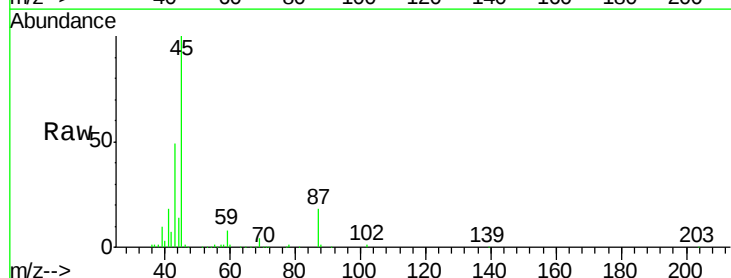
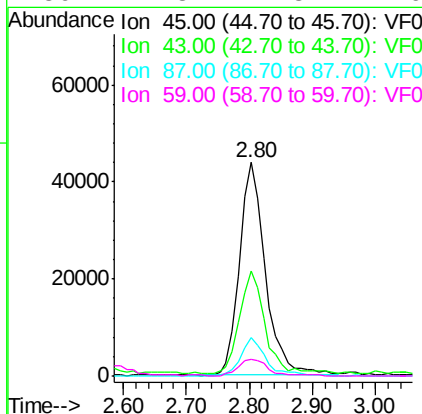
RT: 2.80 min Scan# 220

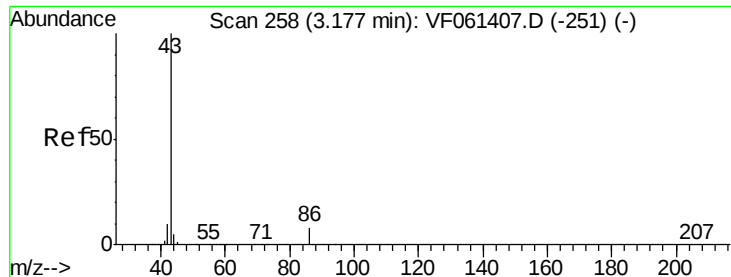
Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	45	Resp:	125196
Ion	Ratio	Lower	Upper
45	100		
43	49.0	39.0	58.6
87	18.1	13.9	20.9
59	7.8	7.8	11.6





#23

Vinyl Acetate

Concen: 112.072 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 43 Resp: 293668

Ion Ratio Lower Upper

43 100

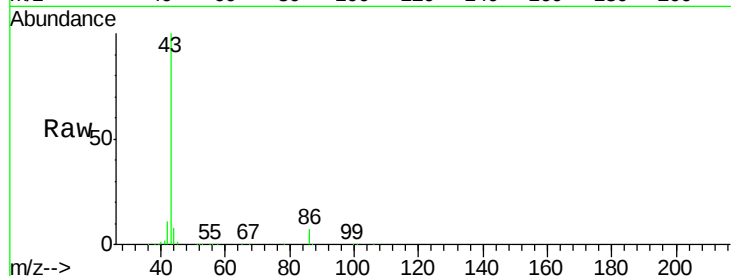
86 7.2 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

120000

100000

80000

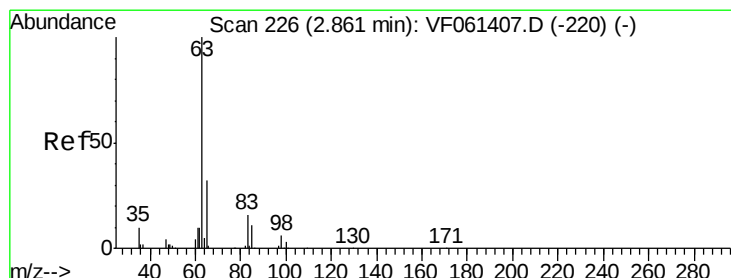
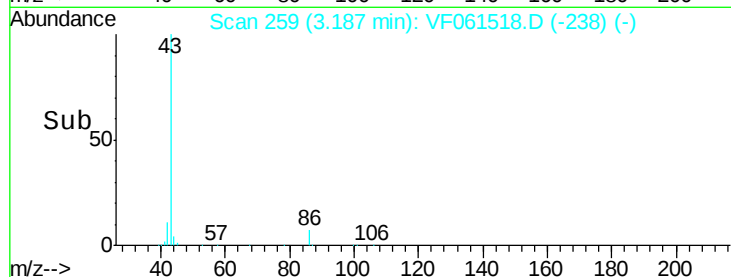
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.621 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

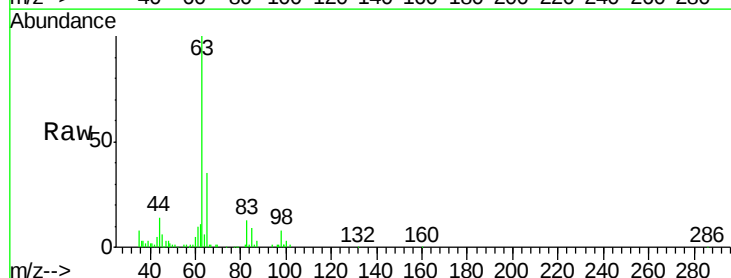
Tgt Ion: 63 Resp: 74551

Ion Ratio Lower Upper

63 100

98 7.6 2.9 8.8

100 3.3 1.6 4.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.87

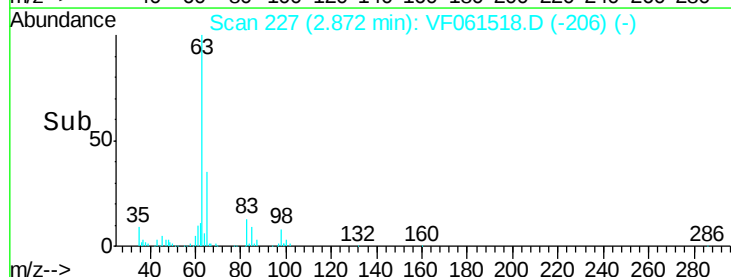
30000

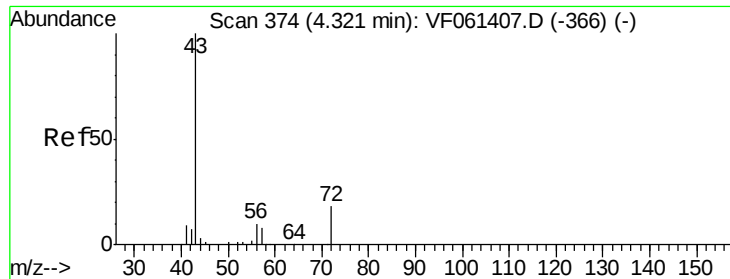
20000

10000

0

Time-->





#25

2-Butanone

Concen: 119.542 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 43 Resp: 94176

Ion Ratio Lower Upper

43 100

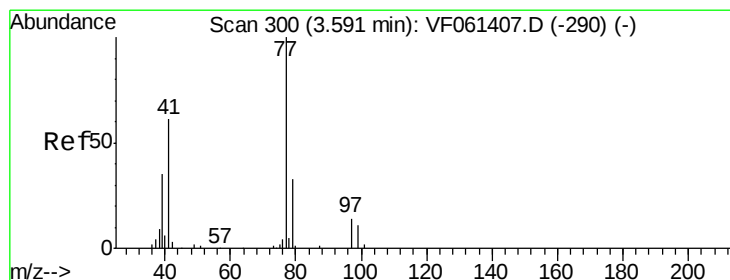
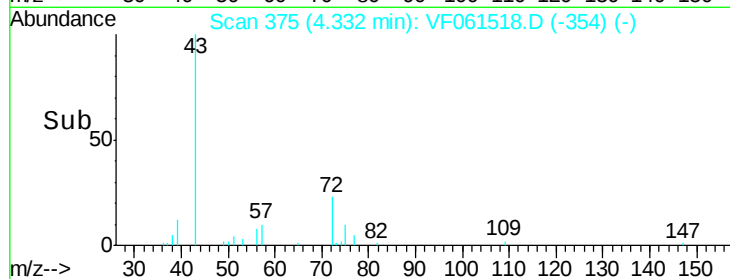
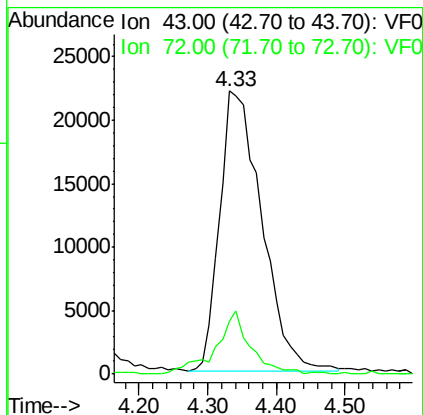
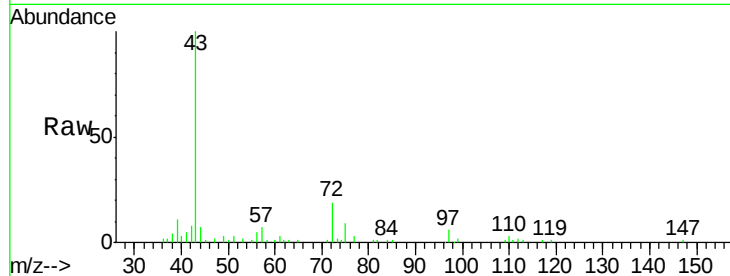
72 18.8 15.8 23.6

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#26

2,2-Dichloropropane

Concen: 17.802 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061518.D

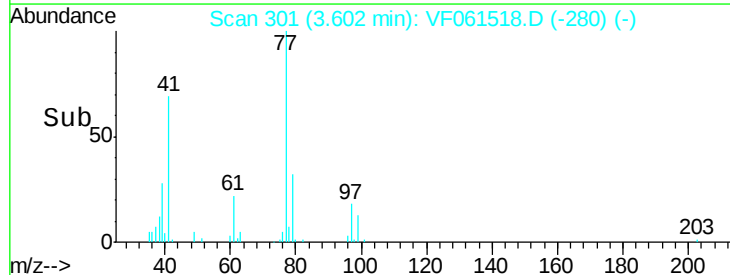
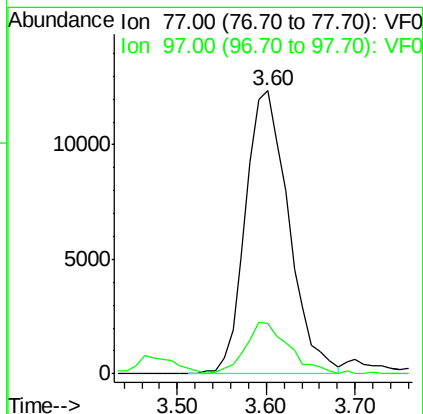
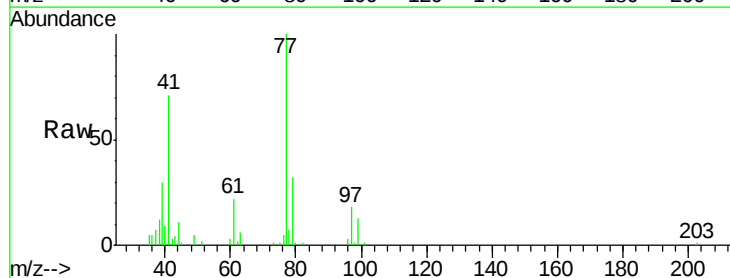
Acq: 25 Jan 2019 13:51

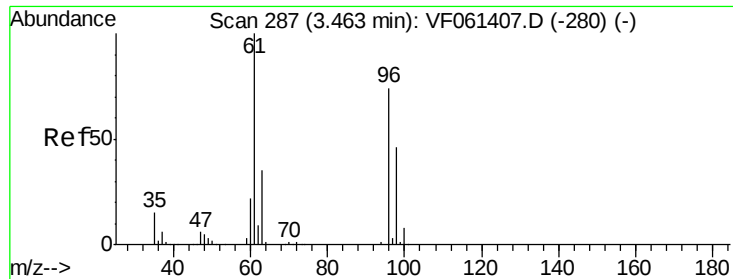
Tgt Ion: 77 Resp: 41556

Ion Ratio Lower Upper

77 100

97 17.7 8.5 25.5





#27

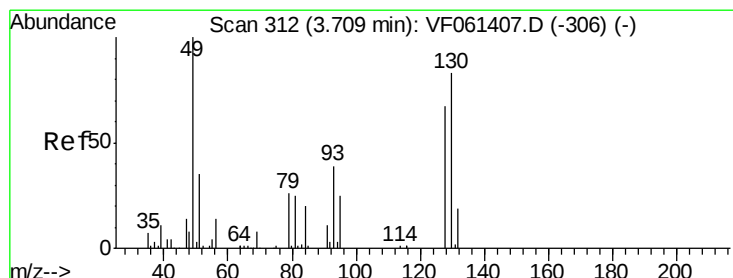
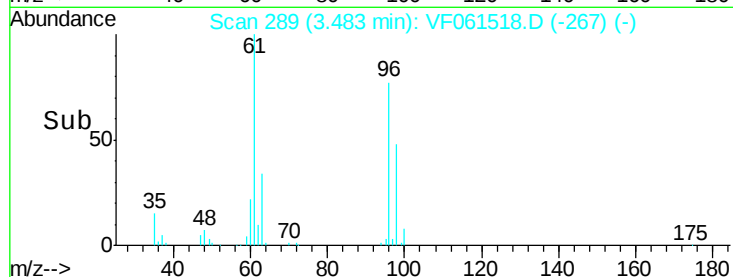
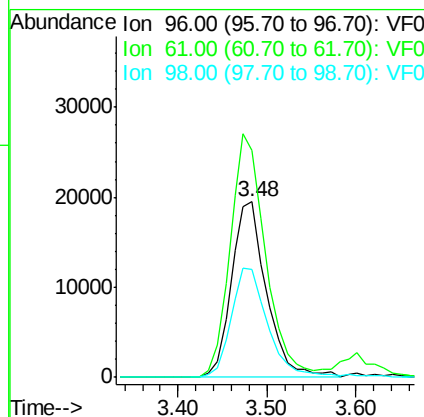
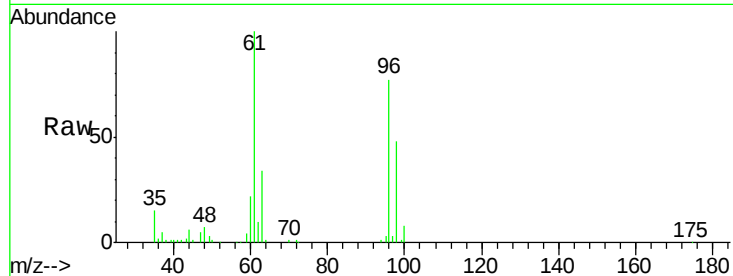
cis-1,2-Dichloroethene
Concen: 19.429 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.02 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.2	0.0	270.2
98	61.5	0.0	124.0

Manual Integrations
APPROVED

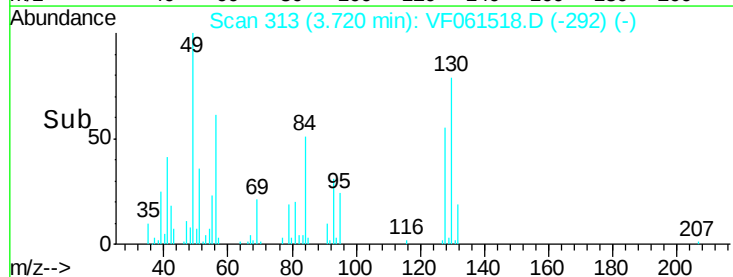
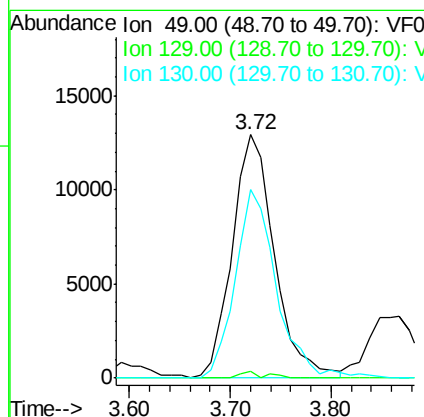
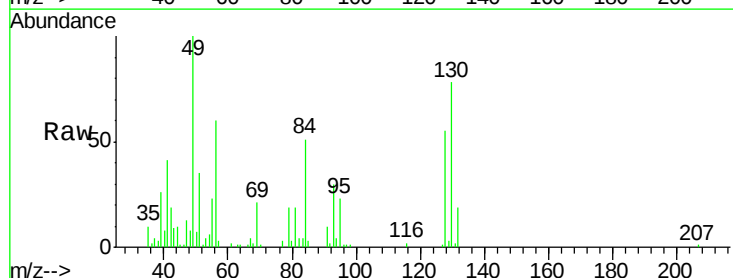
MMDadoda
1/28/2019 12:48:12 PM

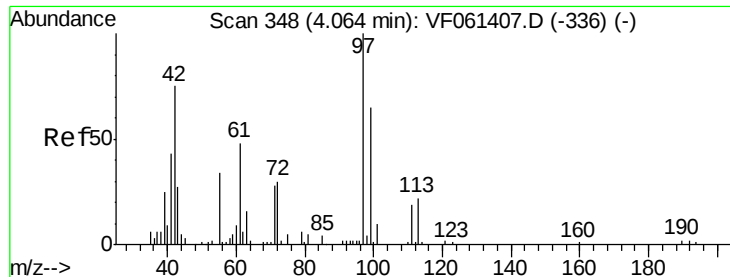


#28

Bromochloromethane
Concen: 22.166 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	0.0#
130	77.7	65.4	98.2





#29

Tetrahydrofuran

Concen: 104.515 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

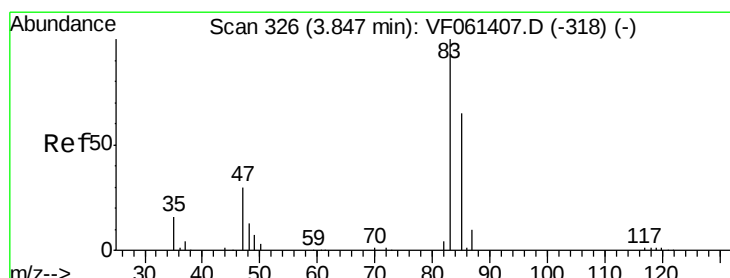
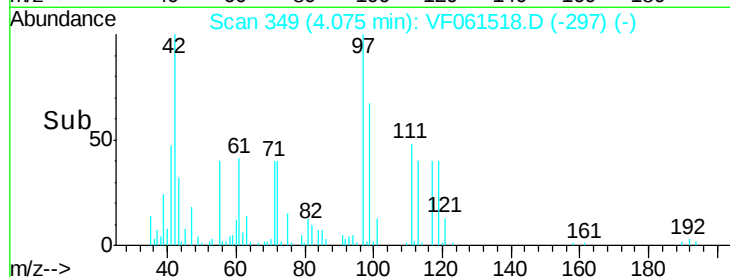
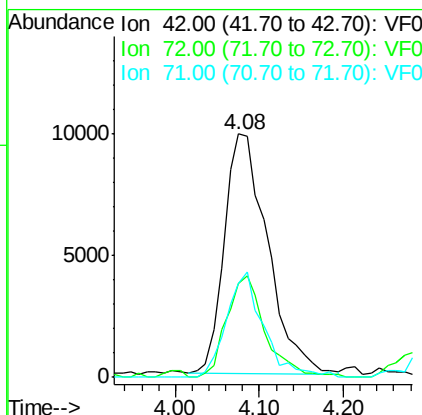
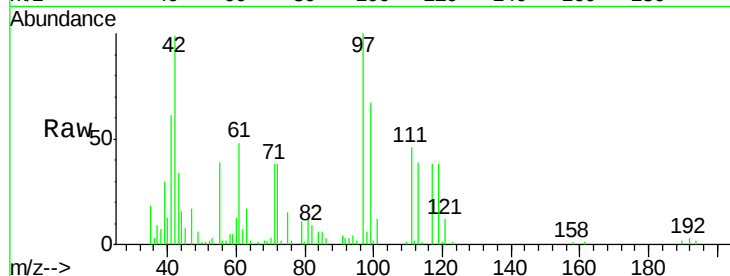
ClientSampleId :

VF01251SBS01

Tot Ion:	42	Resp:	35454
Ion	Ratio	Lower	Upper
42	100		
72	37.7	28.9	43.3
71	37.5	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#30

Chloroform

Concen: 19.932 ug/l

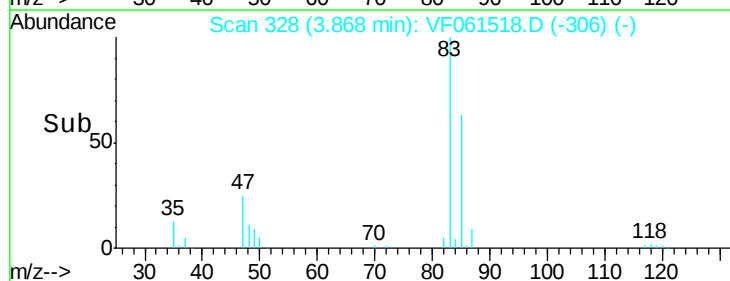
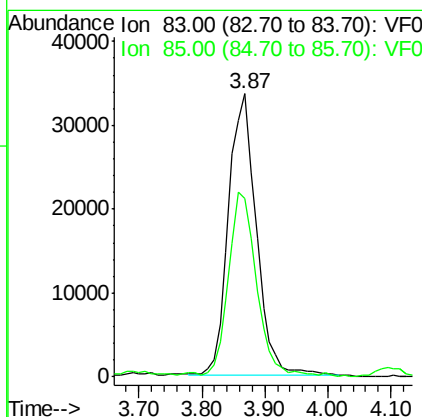
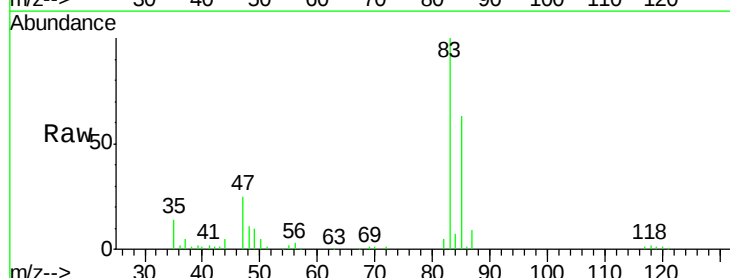
RT: 3.87 min Scan# 328

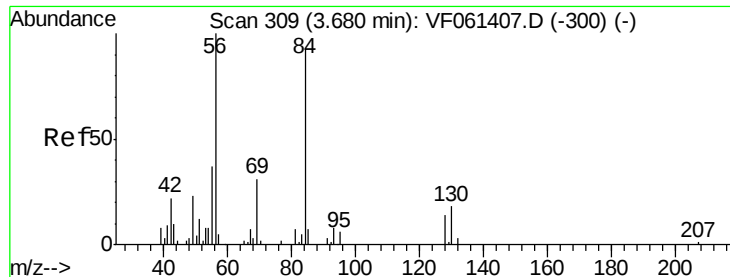
Delta R.T. 0.02 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	83	Resp:	102203
Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.7	79.1





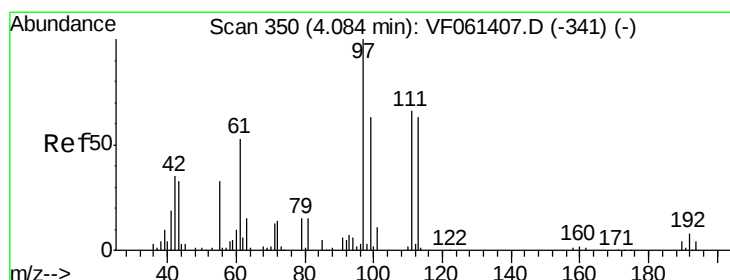
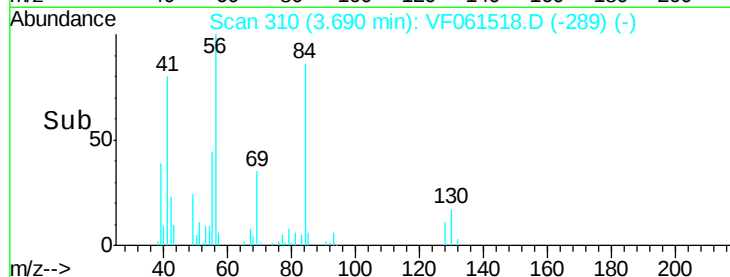
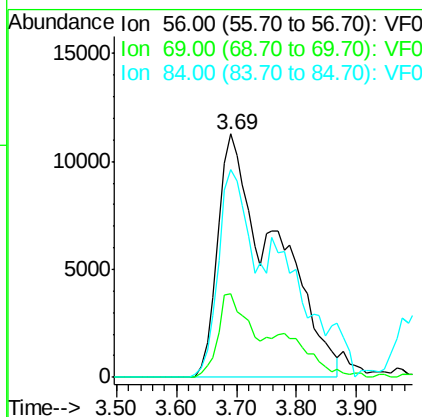
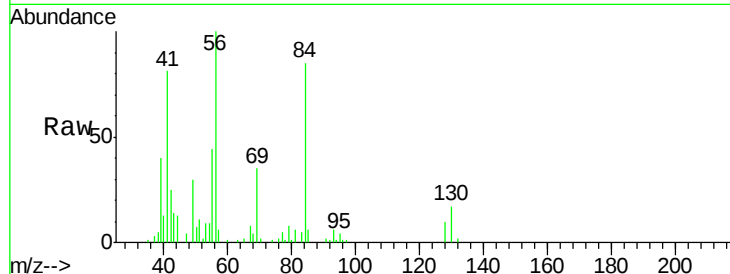
#31
Cyclohexane
Concen: 19.662 ug/l m
RT: 3.69 min Scan# 310
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.5	24.6	36.8
84	85.2	74.2	111.2

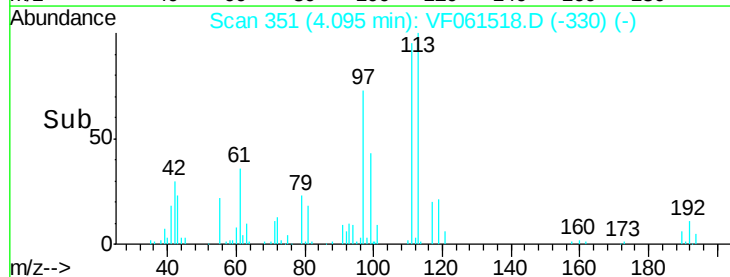
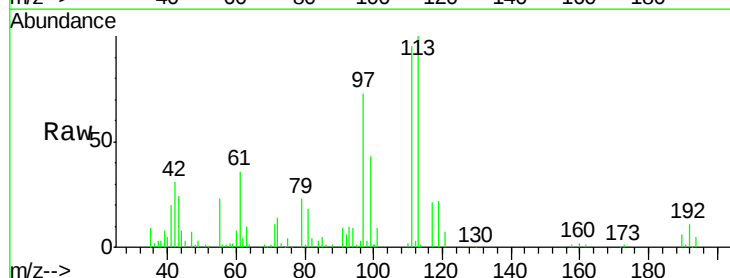
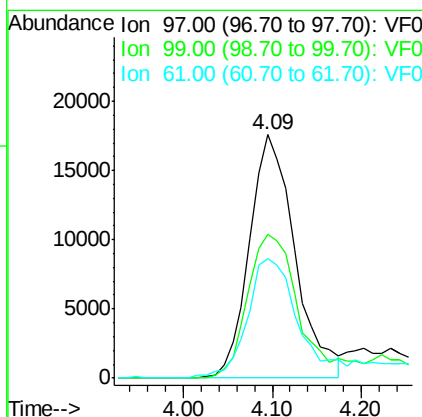
Manual Integrations
APPROVED

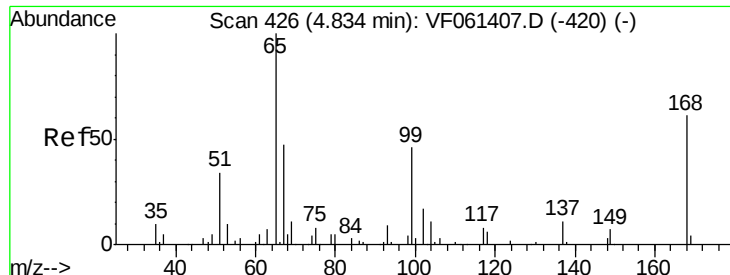
MMDadoda
1/28/2019 12:48:12 PM



#32
1,1,1-Trichloroethane
Concen: 16.618 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.0	50.1	75.1
61	49.2	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 48.428 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tot Ion: 65 Resp: 114362

Ion Ratio Lower Upper

65 100

67 48.9 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

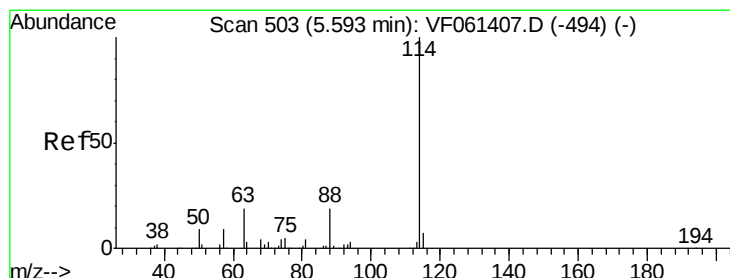
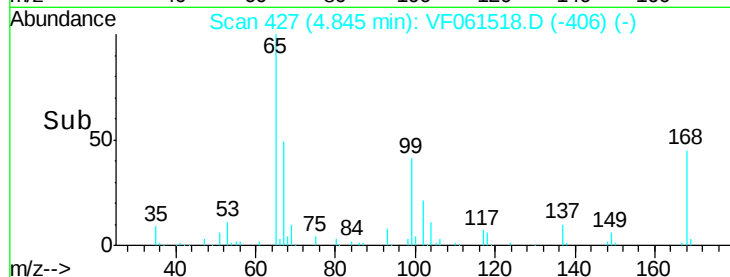
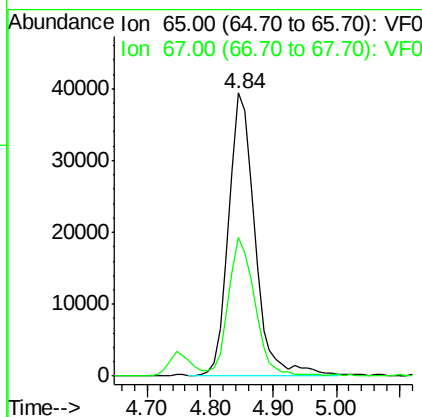
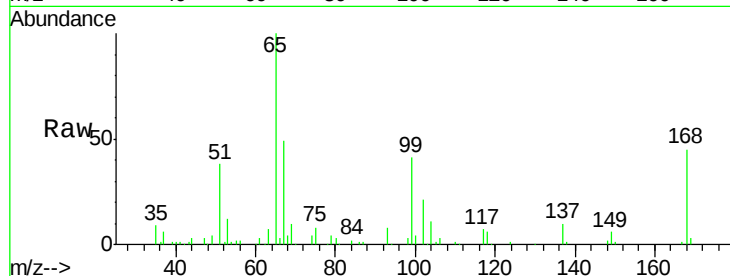
VF01251SBS01

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

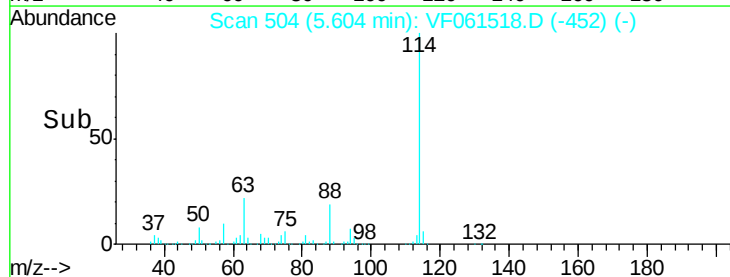
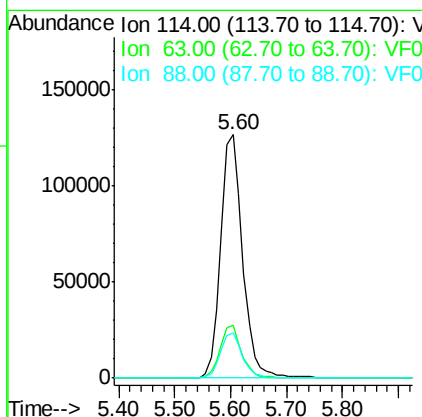
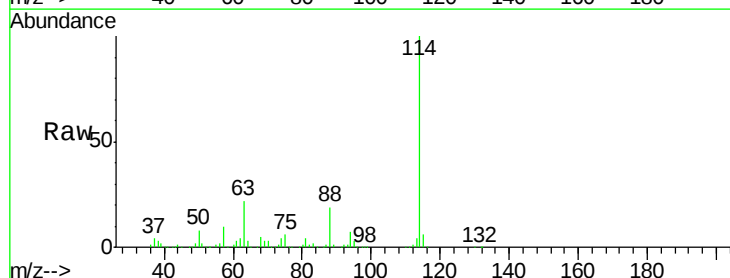
Tgt Ion: 114 Resp: 347663

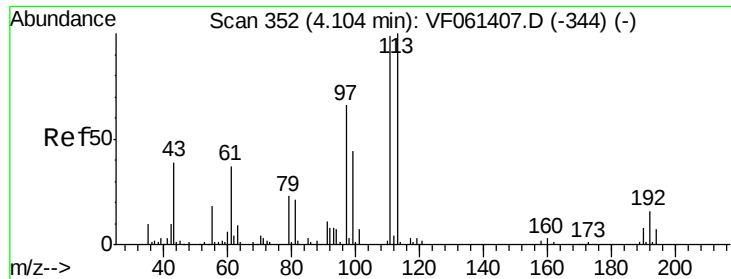
Ion Ratio Lower Upper

114 100

63 21.7 0.0 39.0

88 18.8 0.0 37.4





#35

Dibromofluoromethane

Concen: 47.698 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061518.D

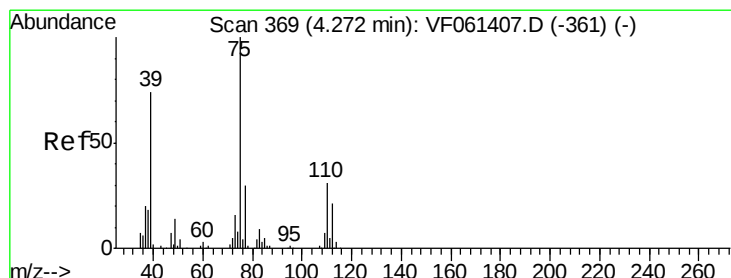
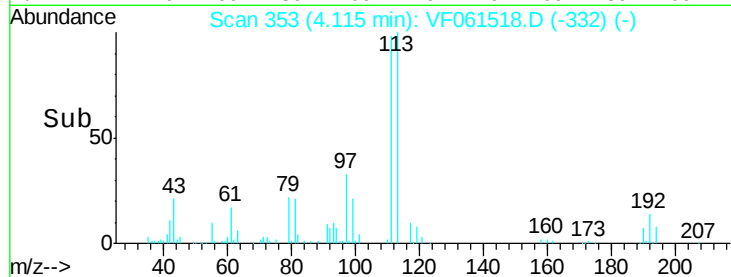
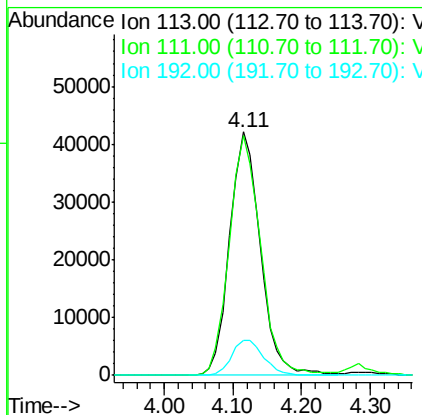
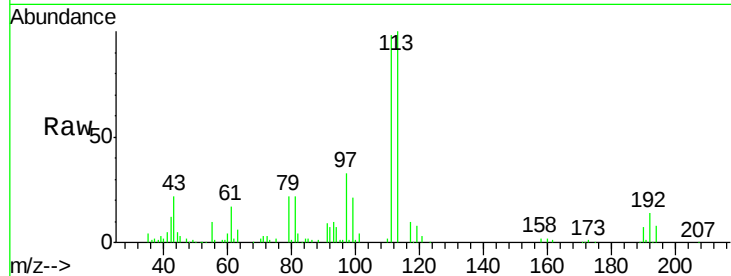
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion:	113	Resp:	130852
Ion Ratio	Lower	Upper	
113	100		
111	98.3	79.4	119.0
192	14.3	12.4	18.6

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#36

1,1-Dichloropropene

Concen: 18.743 ug/l

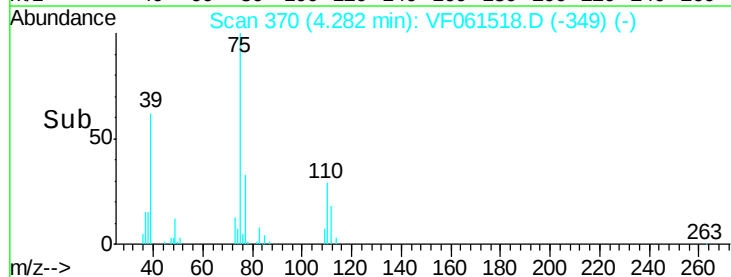
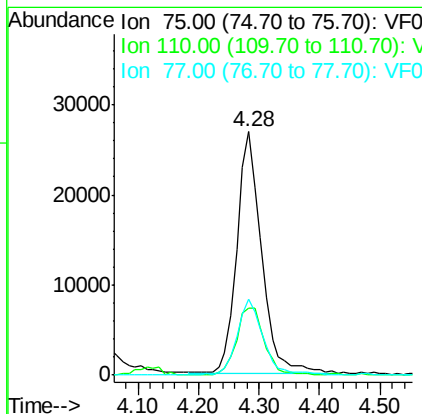
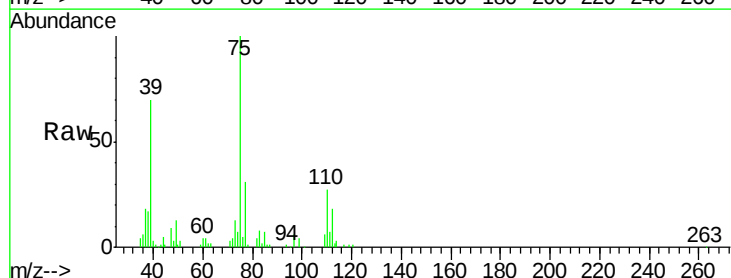
RT: 4.28 min Scan# 370

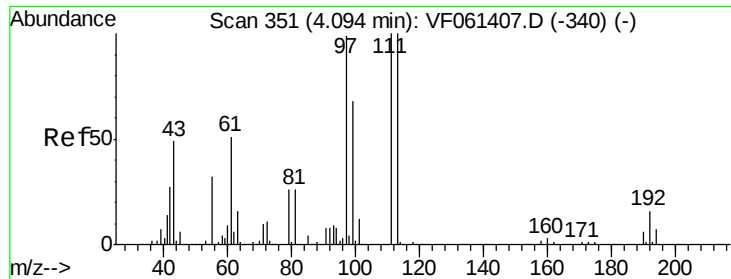
Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	75	Resp:	75551
Ion Ratio	Lower	Upper	
75	100		
110	27.5	15.8	47.3
77	31.1	24.0	36.0





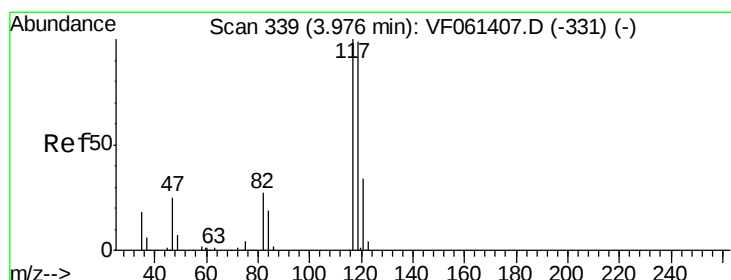
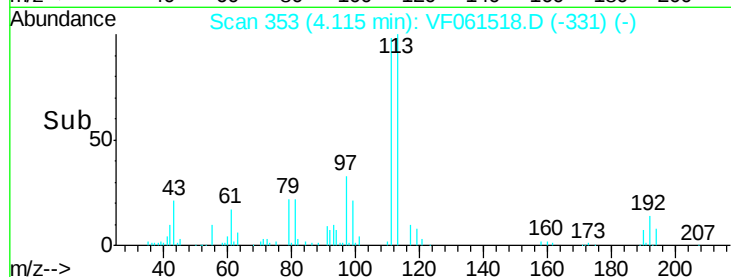
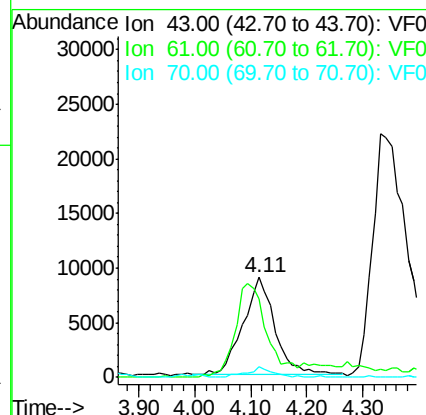
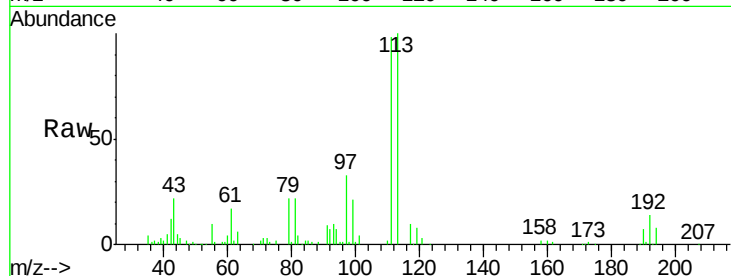
#37
Ethyl Acetate
Concen: 21.512 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	78.7	81.7	122.5#
70	10.2	6.2	9.2#

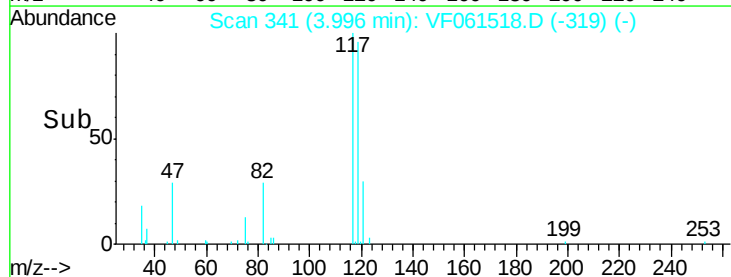
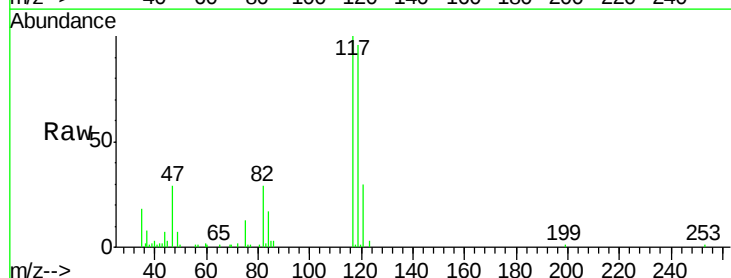
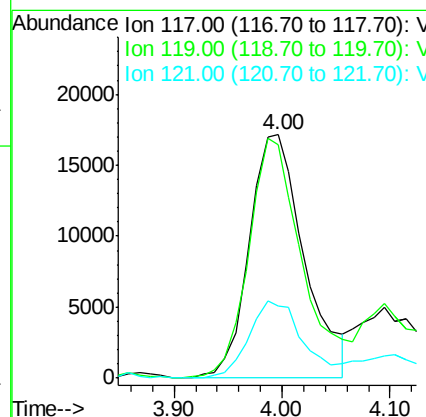
Manual Integrations
APPROVED

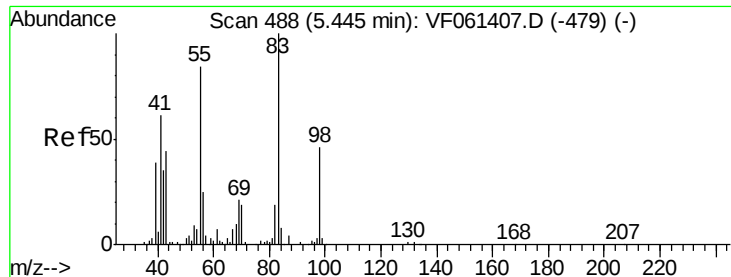
MMDadoda
1/28/2019 12:48:12 PM



#38
Carbon Tetrachloride
Concen: 17.275 ug/l
RT: 4.00 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	79.0	118.6
121	29.6	27.0	40.6





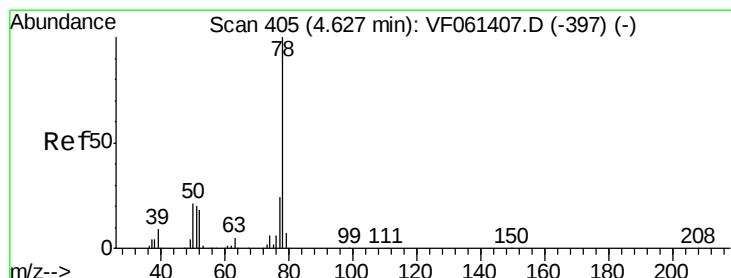
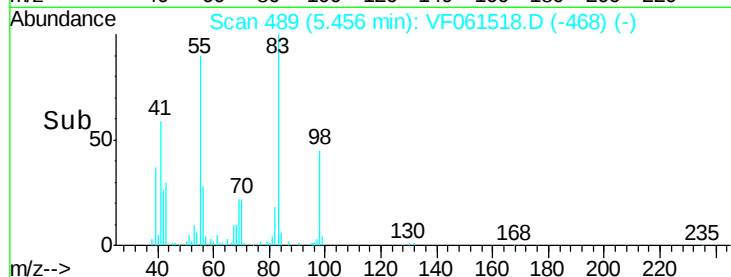
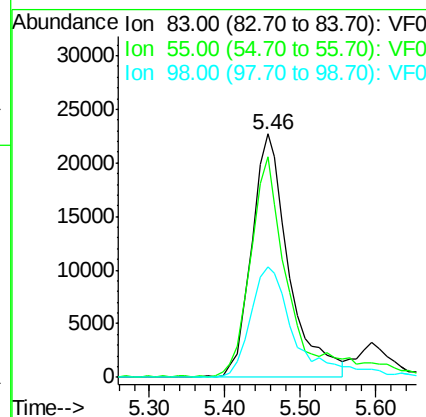
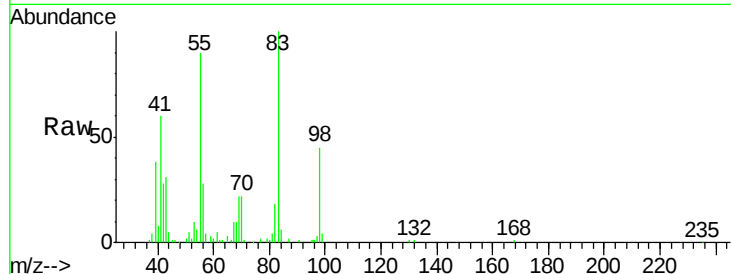
#39
Methvlcvclohexane
Concen: 17.776 ug/l
RT: 5.46 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.5	67.4	101.2
98	45.5	36.7	55.1

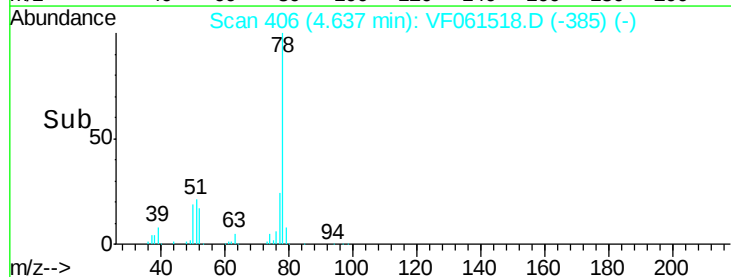
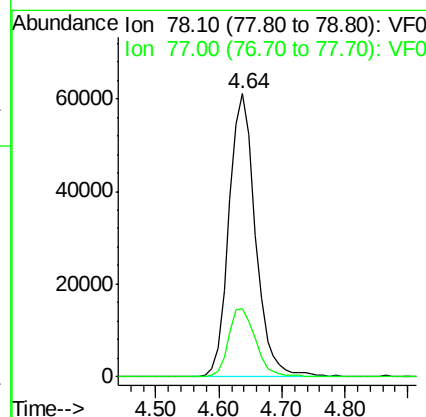
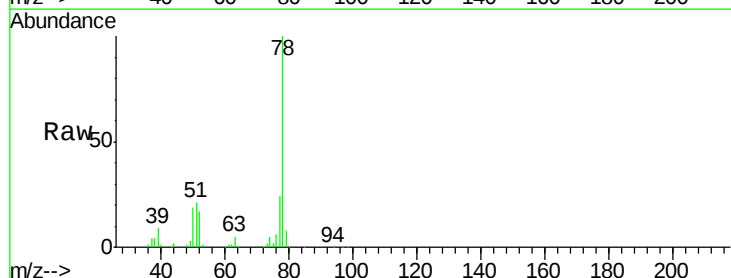
Manual Integrations
APPROVED

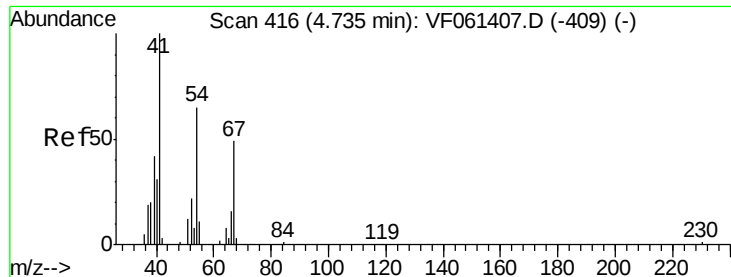
MMDadoda
1/28/2019 12:48:12 PM



#40
Benzene
Concen: 19.930 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6





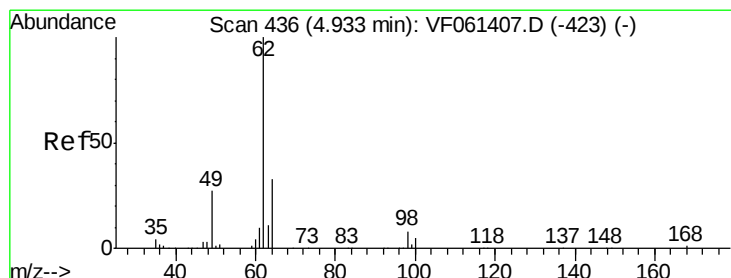
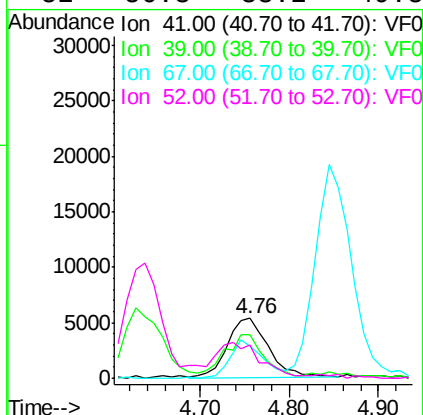
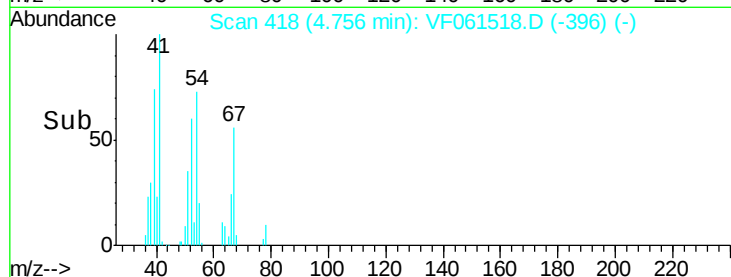
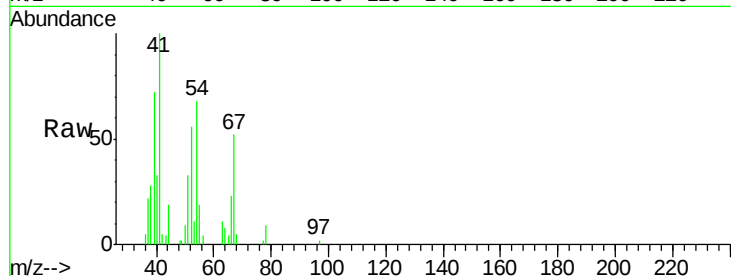
#41
Methacrylonitrile
Concen: 20.277 ug/l
RT: 4.76 min Scan# 418
Delta R.T. 0.02 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	72.3	43.1	64.7#
67	52.3	38.8	58.2
52	56.3	33.2	49.8#

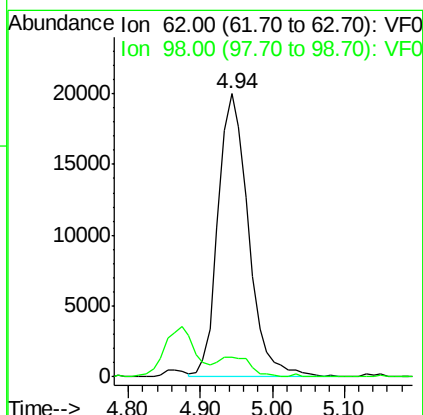
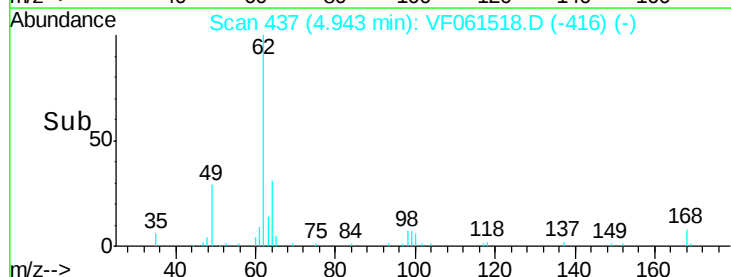
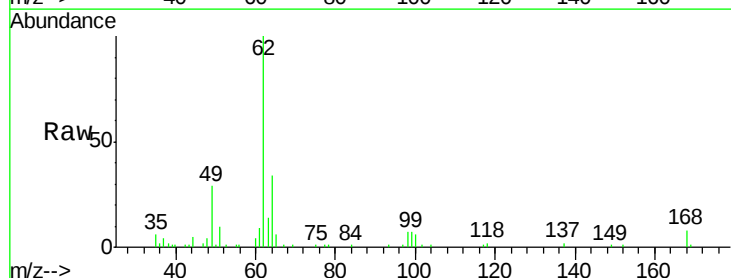
Manual Integrations
APPROVED

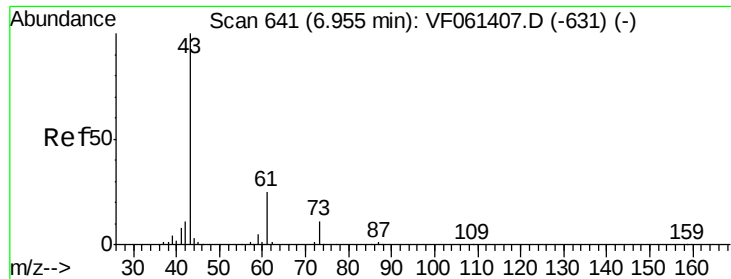
MMDadoda
1/28/2019 12:48:12 PM



#42
1,2-Dichloroethane
Concen: 18.320 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.9	0.0	17.0





#43

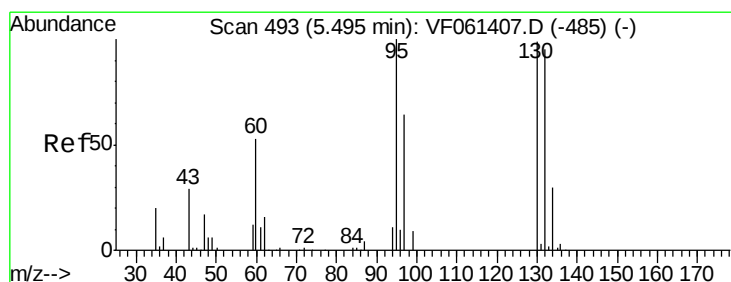
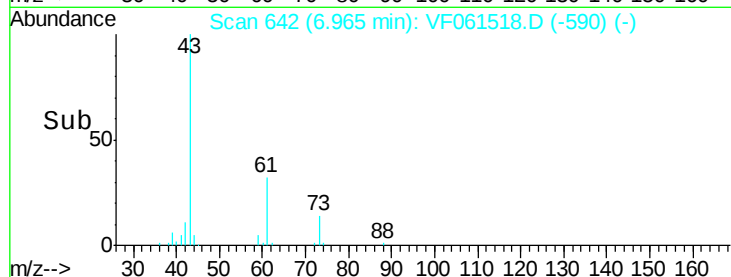
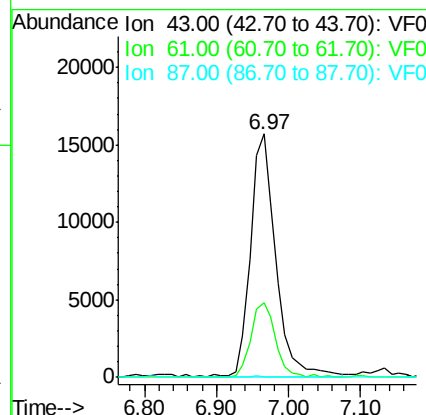
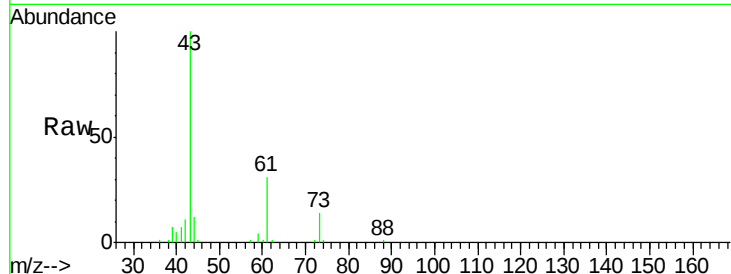
Isopropyl Acetate
 Concen: 19.243 ug/l
 RT: 6.97 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.7	20.3	30.5#
87	0.0	0.5	0.7#

Manual Integrations
 APPROVED

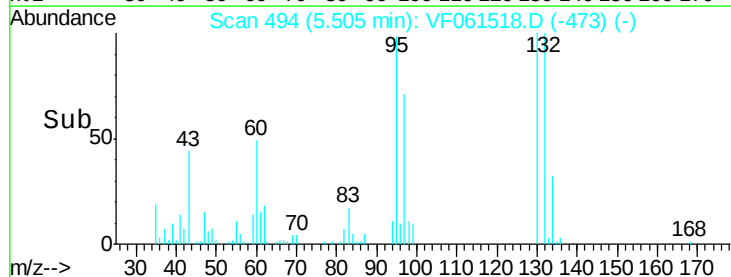
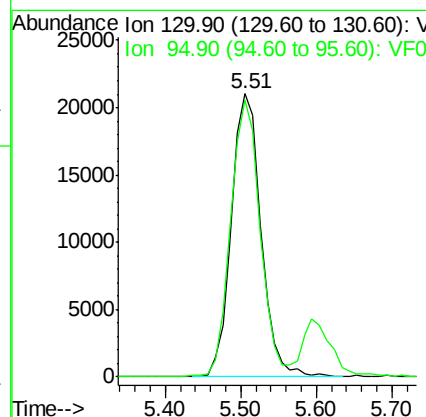
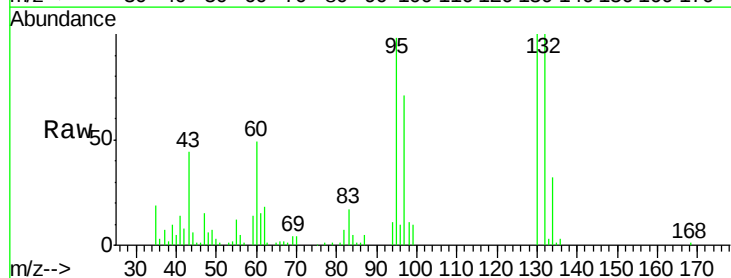
MMDadoda
 1/28/2019 12:48:12 PM

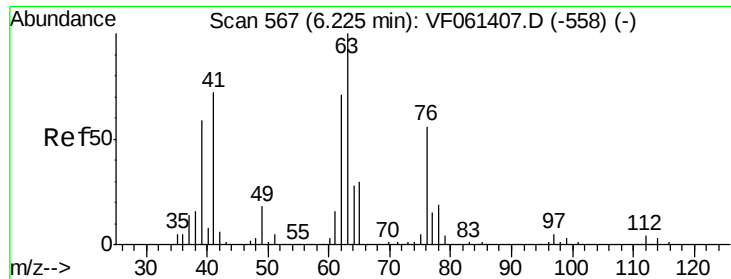


#44

Trichloroethene
 Concen: 20.649 ug/l
 RT: 5.51 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	202.8





#45

1,2-Dichloropropane

Concen: 20.493 ug/l

RT: 6.24 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 63 Resp: 48243

Ion Ratio Lower Upper

63 100

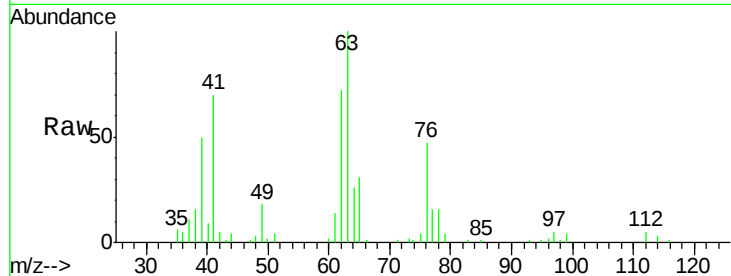
65 30.5 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

20000

15000

10000

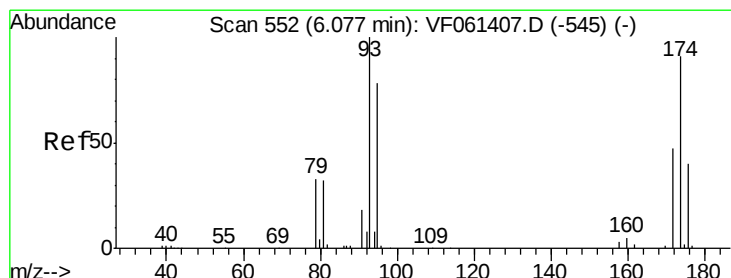
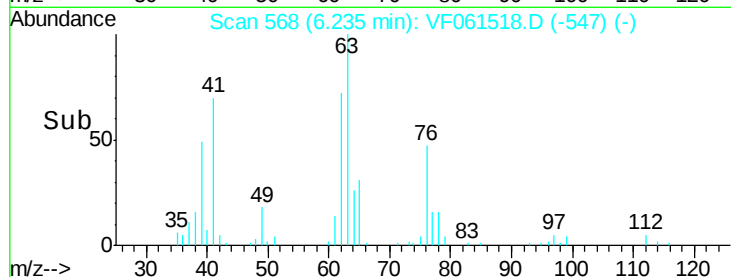
5000

0

6.10 6.20 6.30 6.40

6.24

Time-->



#46

Dibromomethane

Concen: 17.886 ug/l

RT: 6.09 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

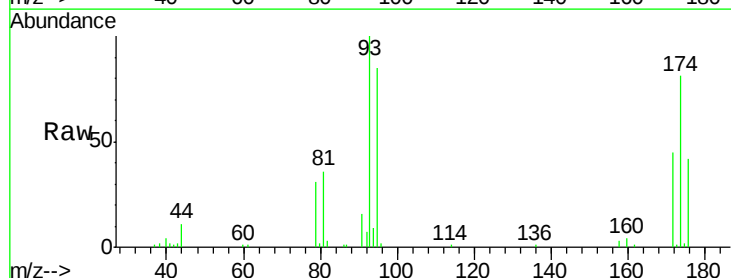
Tgt Ion: 93 Resp: 27997

Ion Ratio Lower Upper

93 100

95 84.7 62.1 93.1

174 81.4 74.6 111.8



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

15000

10000

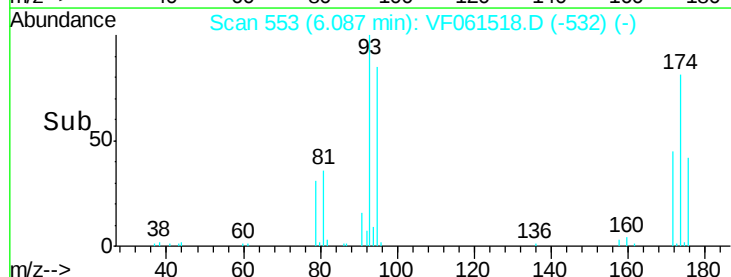
5000

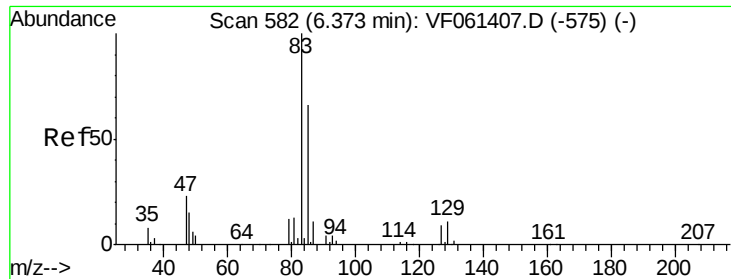
0

6.00 6.10 6.20

6.09

Time-->





#47

Bromodichloromethane

Concen: 19.606 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.02 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

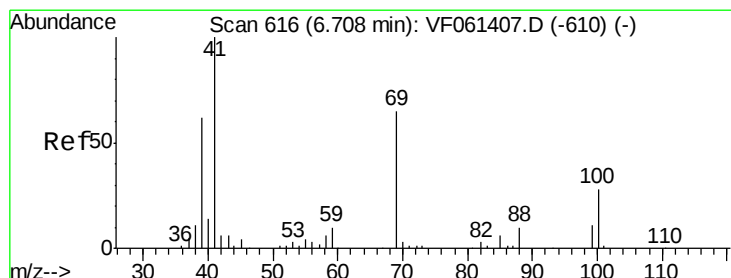
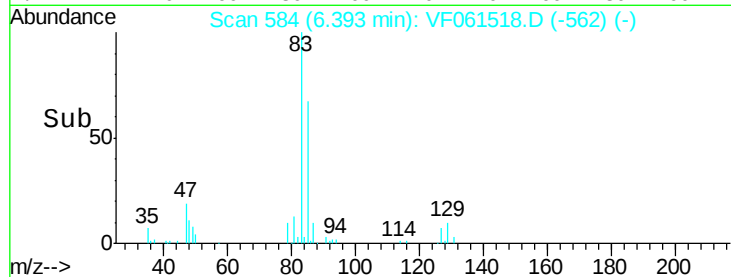
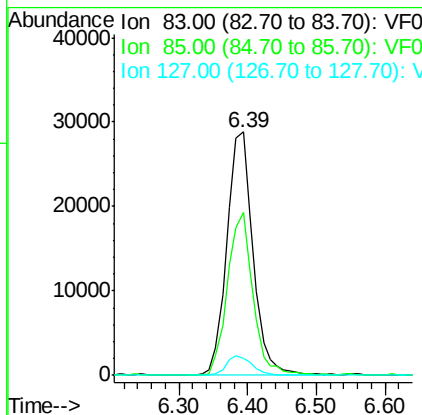
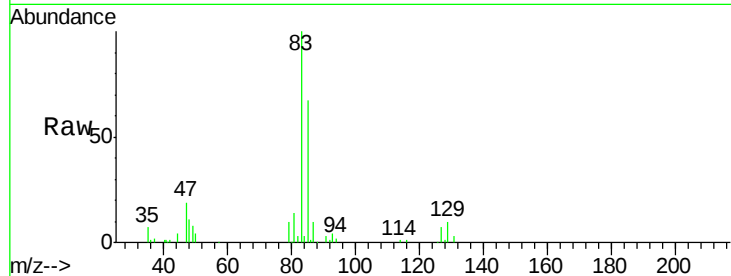
ClientSampleId :

VF01251SBS01

Tot Ion:	83	Resp:	75933
Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.0	79.4
127	7.1	6.9	10.3

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#48

Methyl methacrylate

Concen: 18.302 ug/l

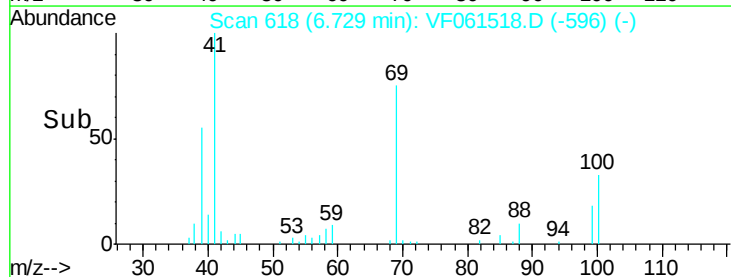
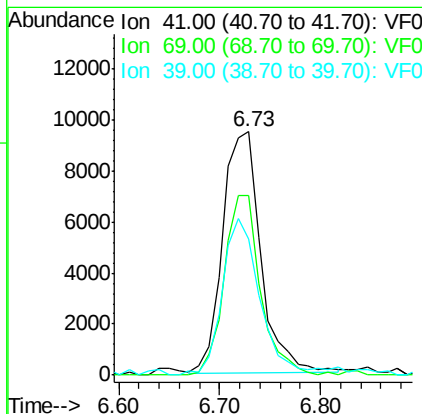
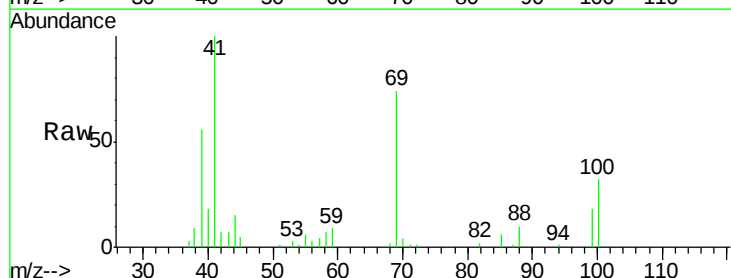
RT: 6.73 min Scan# 618

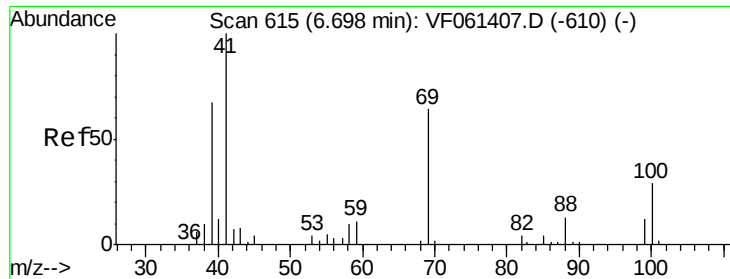
Delta R.T. 0.02 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	41	Resp:	24854
Ion	Ratio	Lower	Upper
41	100		
69	73.7	51.7	77.5
39	56.1	49.2	73.8





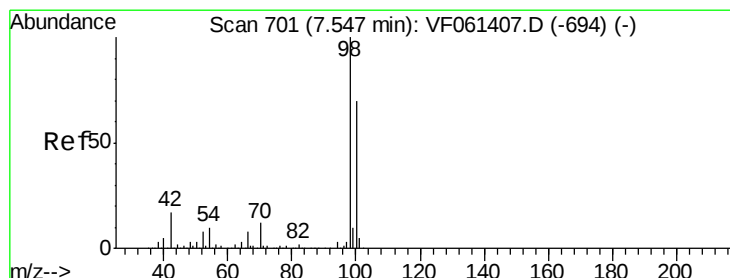
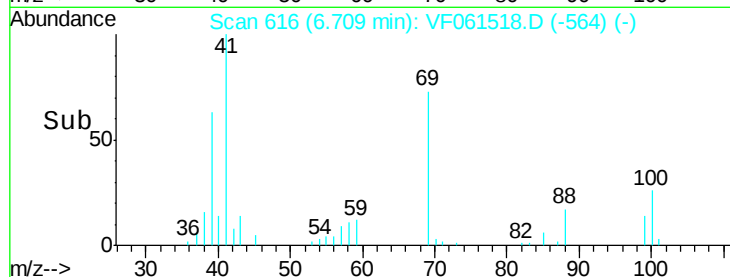
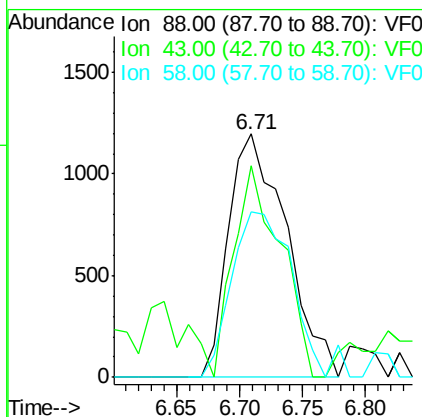
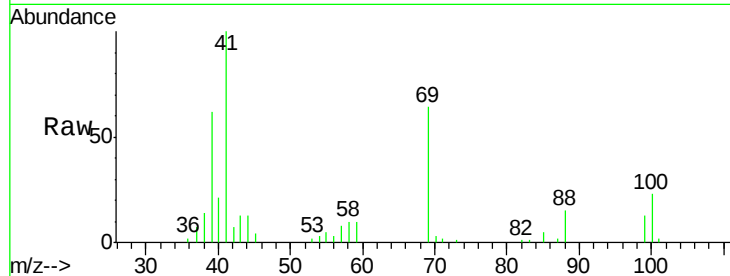
#49
1,4-Dioxane
Concen: 356.753 ug/l
RT: 6.71 min Scan# 616
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	86.9	55.5	83.3#	
58	67.8	59.9	89.9	

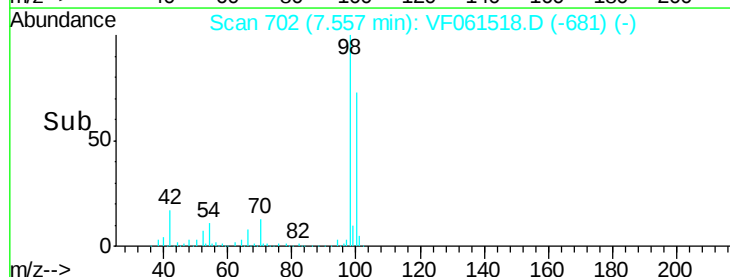
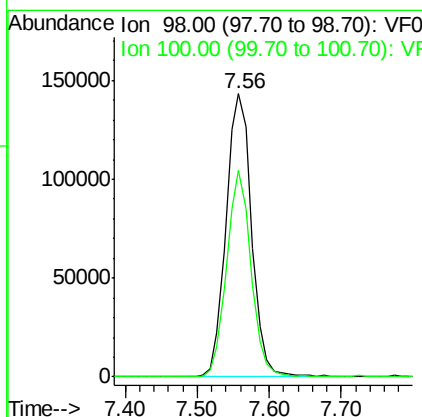
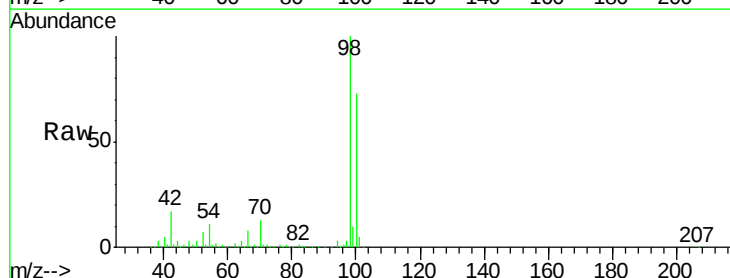
Manual Integrations
APPROVED

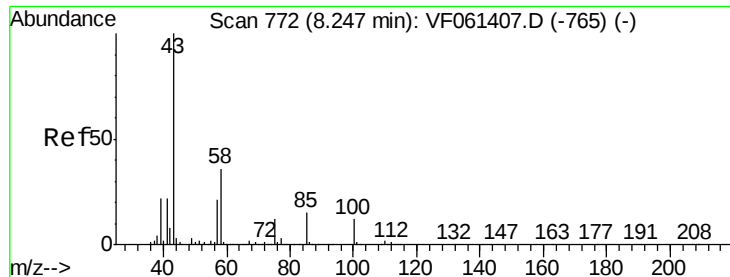
MMDadoda
1/28/2019 12:48:12 PM



#50
Toluene-d8
Concen: 46.942 ug/l
RT: 7.56 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	73.1	55.6	83.4	





#51

4-Methyl-2-Pentanone

Concen: 106.361 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 43 Resp: 158129

Ion Ratio Lower Upper

43 100

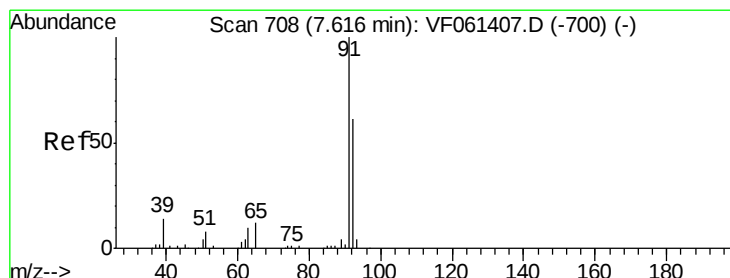
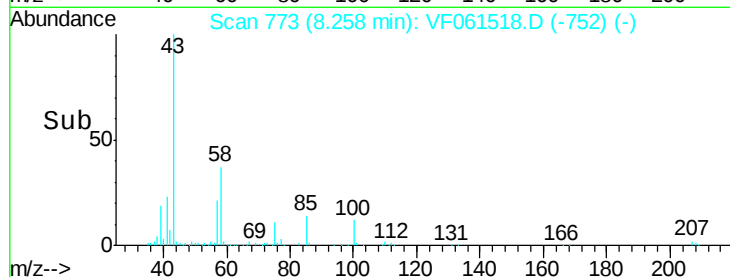
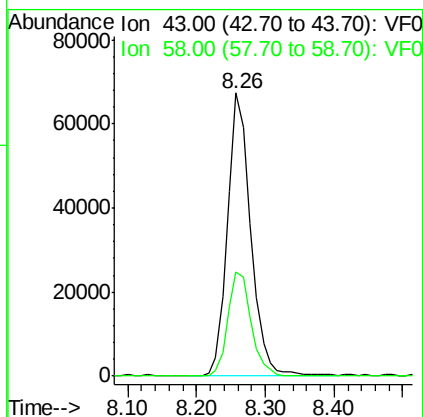
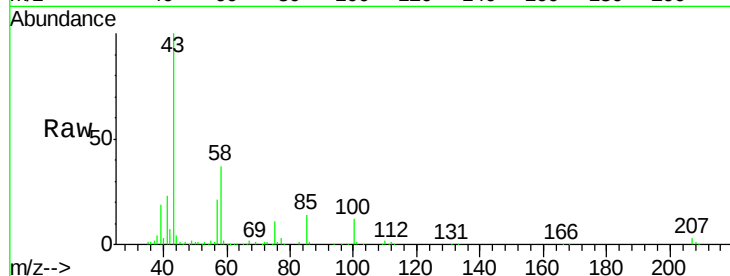
58 36.8 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#52

Toluene

Concen: 17.665 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061518.D

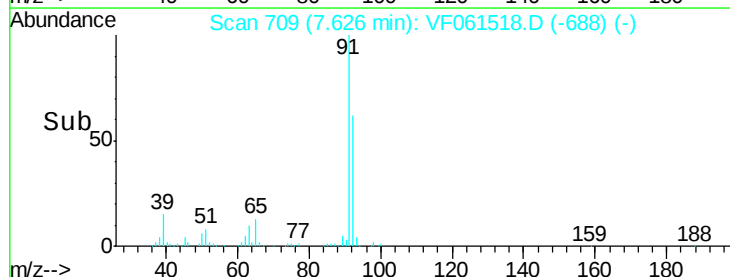
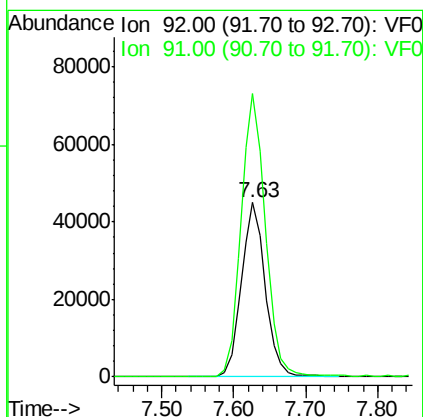
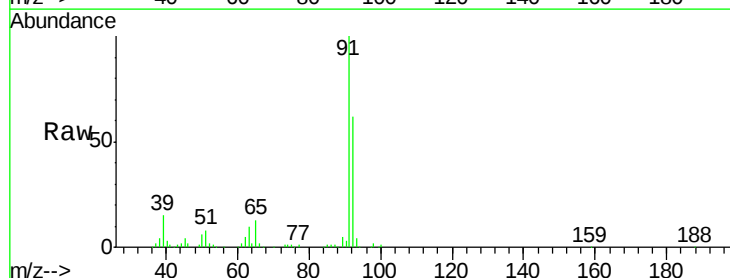
Acq: 25 Jan 2019 13:51

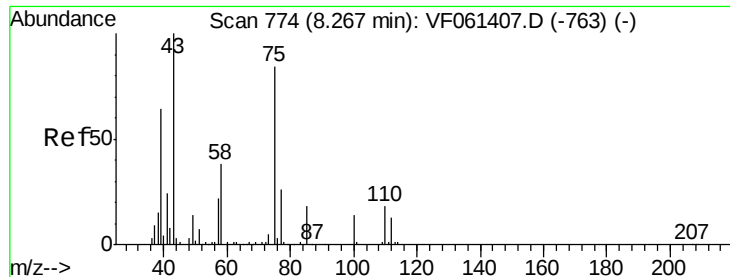
Tgt Ion: 92 Resp: 104341

Ion Ratio Lower Upper

92 100

91 162.5 131.2 196.8





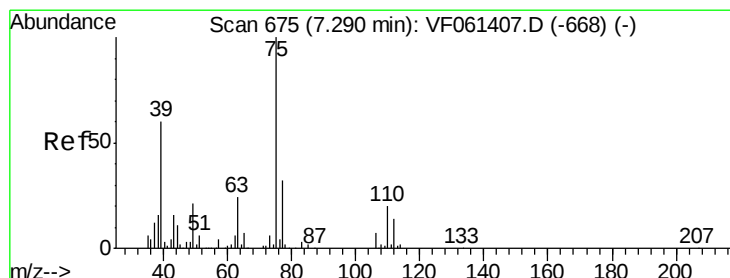
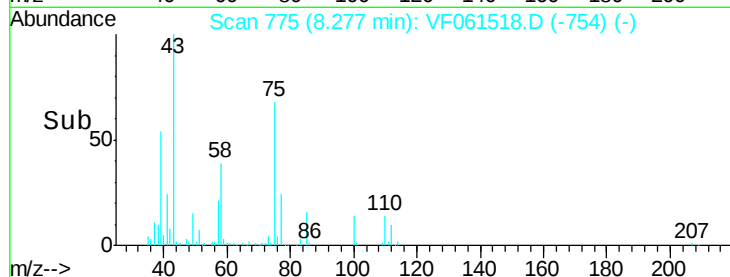
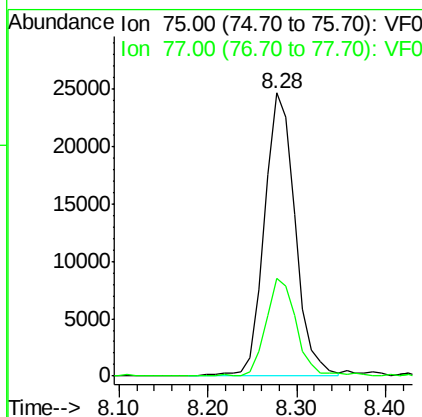
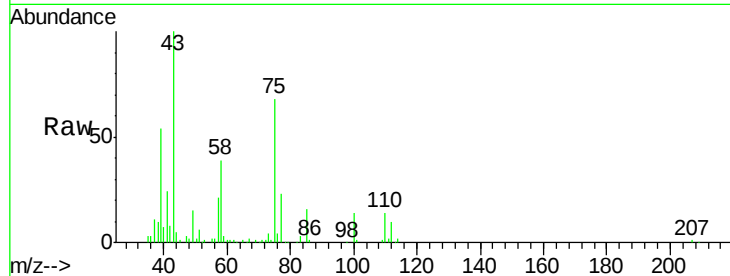
#53
t-1,3-Dichloropropene
Concen: 19.109 ug/l
RT: 8.28 min Scan# 775
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.6	24.4	36.6

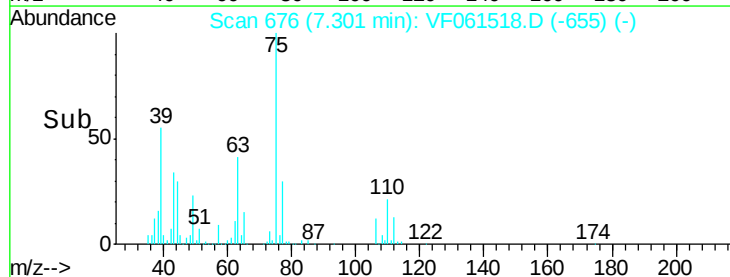
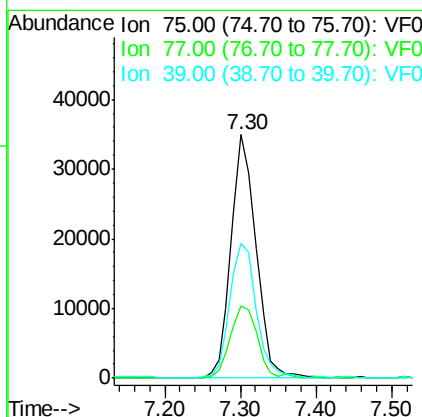
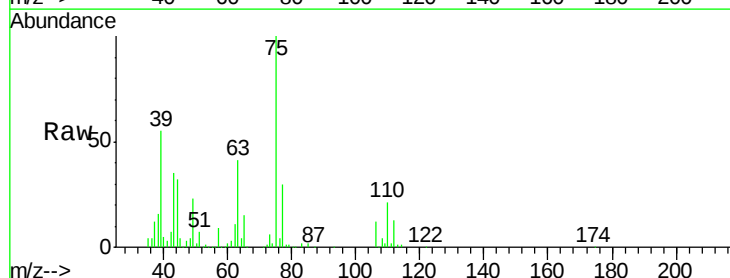
Manual Integrations
APPROVED

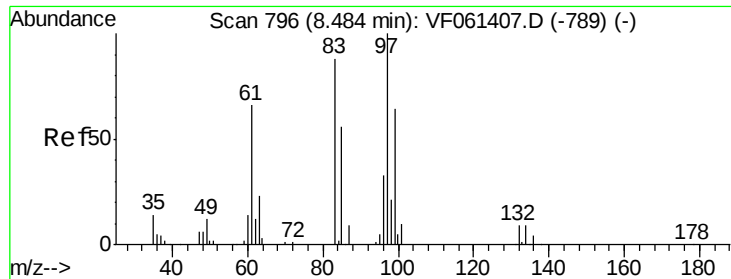
MMDadoda
1/28/2019 12:48:12 PM



#54
cis-1,3-Dichloropropene
Concen: 20.811 ug/l
RT: 7.30 min Scan# 676
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.4	38.0
39	55.2	47.8	71.8





#55

1,1,2-Trichloroethane

Concen: 19.969 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

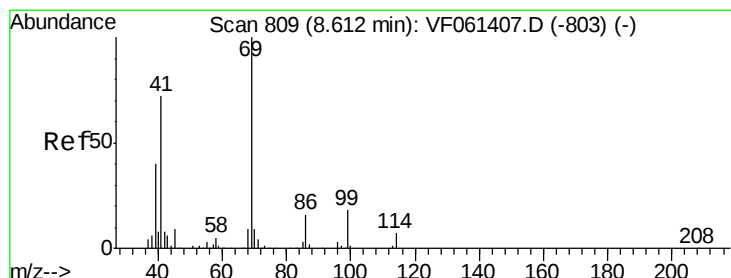
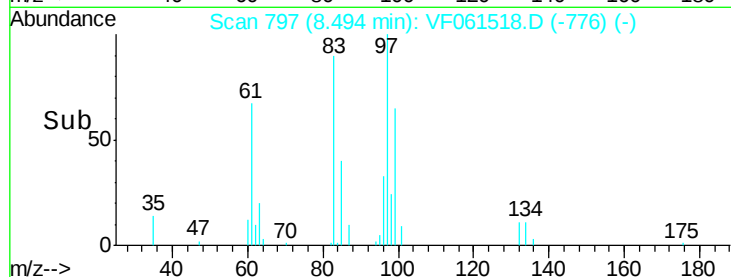
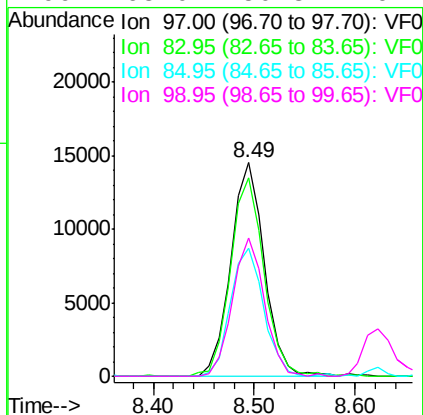
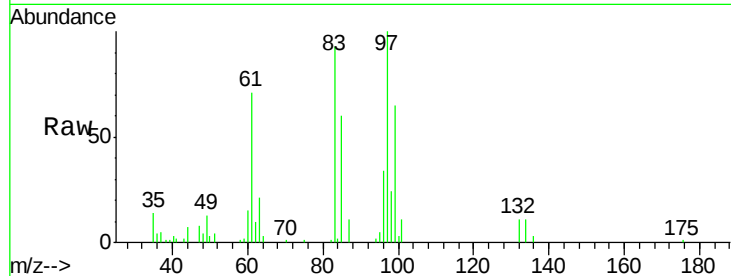
ClientSampleId :

VF01251SBS01

Tot Ion:	97	Resp:	33495
Ion	Ratio	Lower	Upper
97	100		
83	93.0	70.4	105.6
85	60.1	44.7	67.1
99	65.0	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#56

Ethyl methacrylate

Concen: 18.346 ug/l

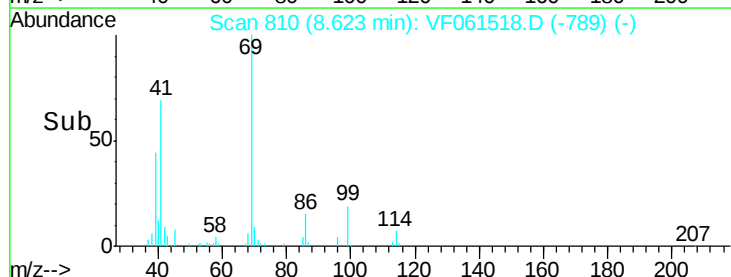
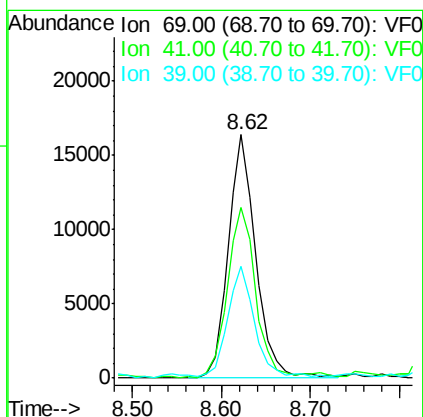
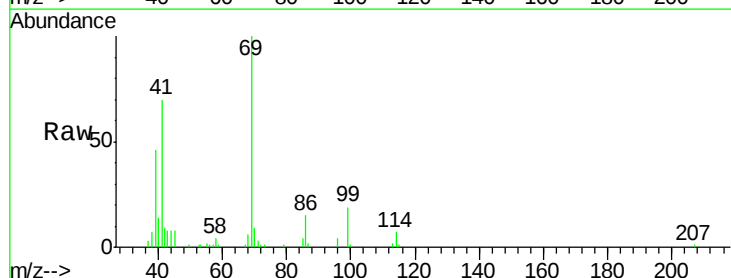
RT: 8.62 min Scan# 810

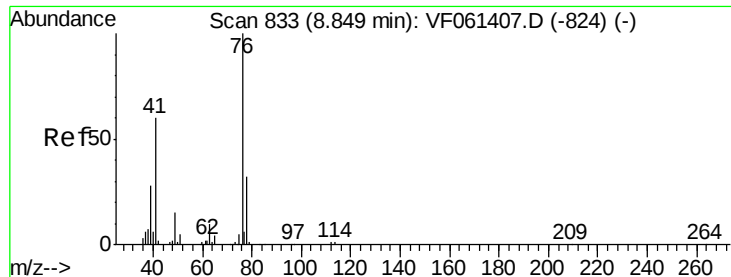
Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	69	Resp:	35803
Ion	Ratio	Lower	Upper
69	100		
41	70.0	57.5	86.3
39	45.7	32.0	48.0





#57

1,3-Dichloropropane

Concen: 18.374 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 76 Resp: 57769

Ion Ratio Lower Upper

76 100

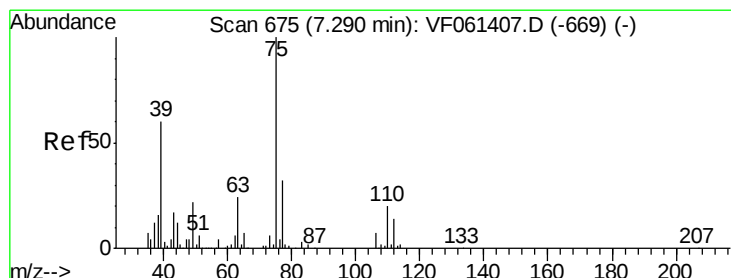
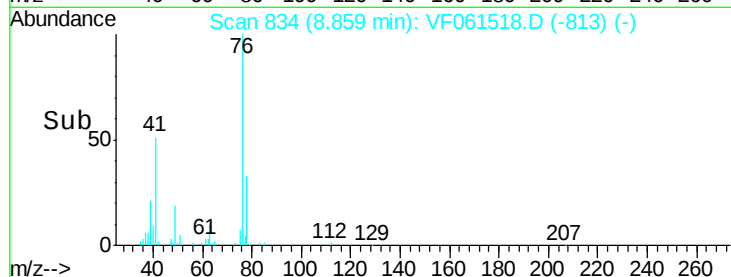
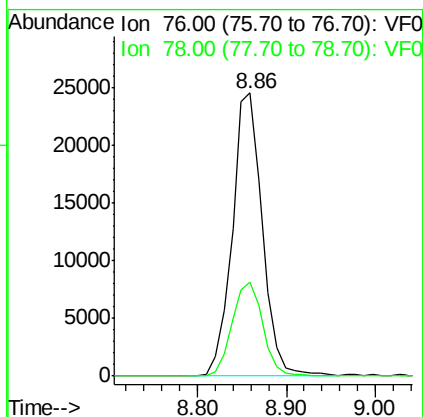
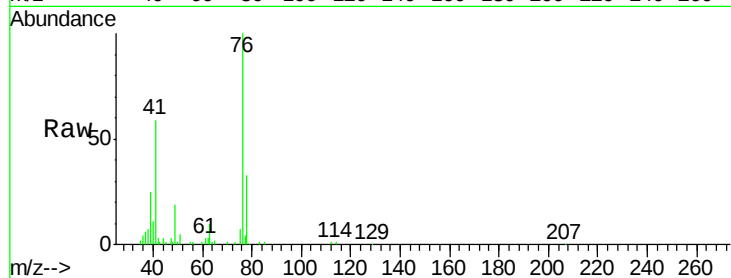
78 33.1 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#58

2-Chloroethyl Vinyl ether

Concen: 176.555 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061518.D

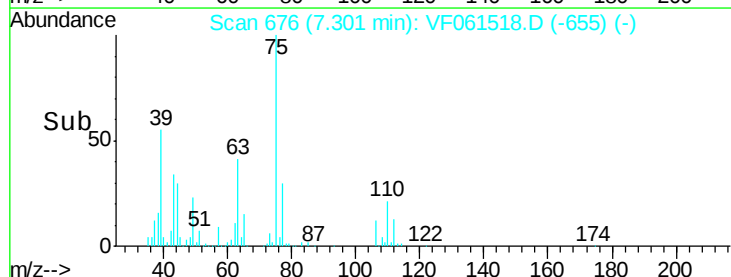
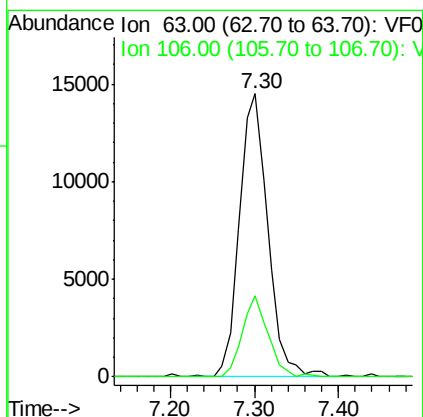
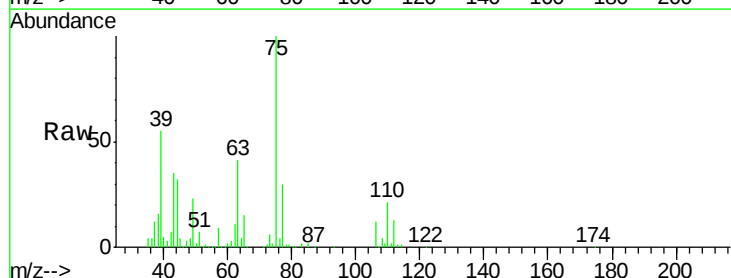
Acq: 25 Jan 2019 13:51

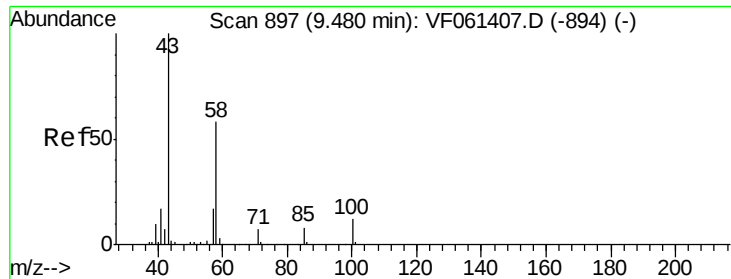
Tgt Ion: 63 Resp: 34271

Ion Ratio Lower Upper

63 100

106 28.6 21.9 32.9





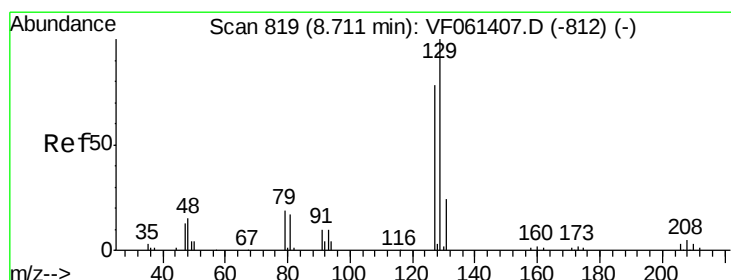
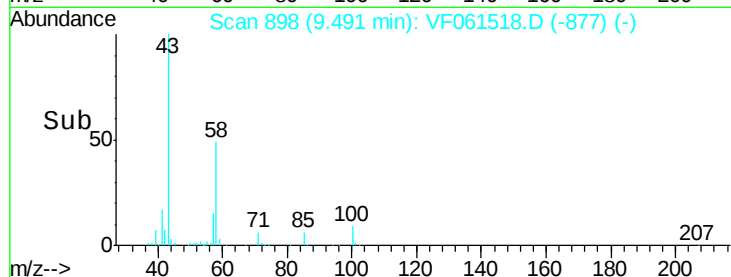
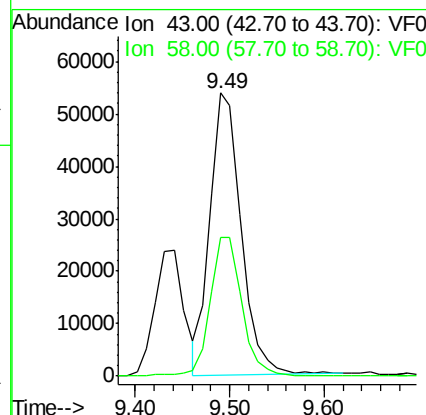
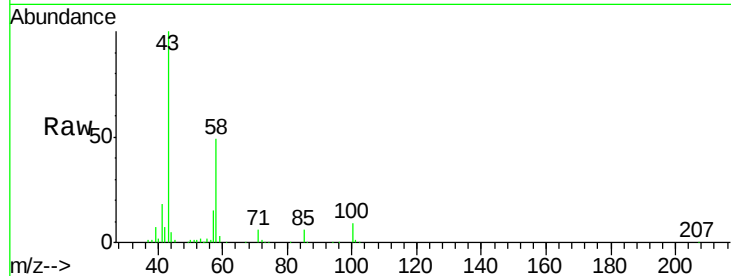
#59
2-Hexanone
Concen: 119.531 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion: 43 Resp: 123920
Ion Ratio Lower Upper
43 100
58 48.9 25.9 77.6

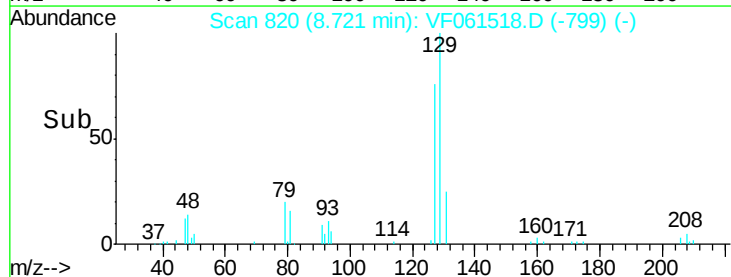
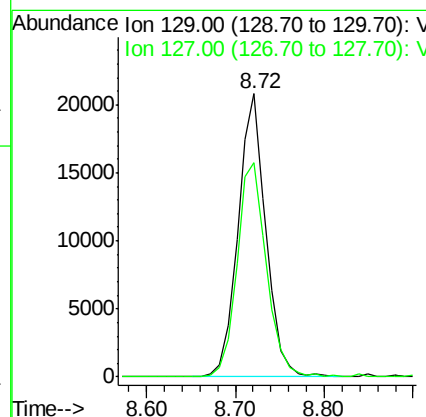
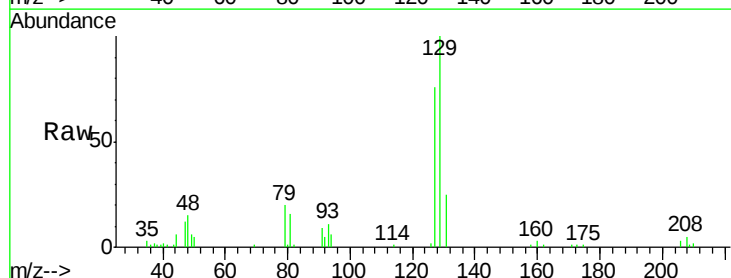
Manual Integrations
APPROVED

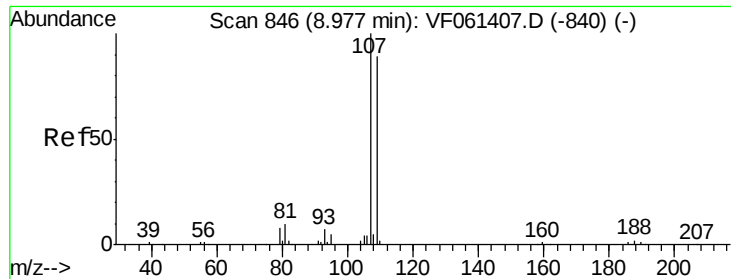
MMDadoda
1/28/2019 12:48:12 PM



#60
Dibromochloromethane
Concen: 18.354 ug/l
RT: 8.72 min Scan# 820
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion: 129 Resp: 45009
Ion Ratio Lower Upper
129 100
127 75.7 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.042 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion:107 Resp: 36565

Ion Ratio Lower Upper

107 100

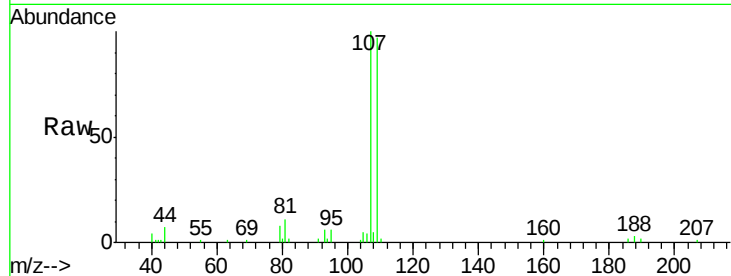
109 97.1 70.8 106.2

Manual Integrations

APPROVED

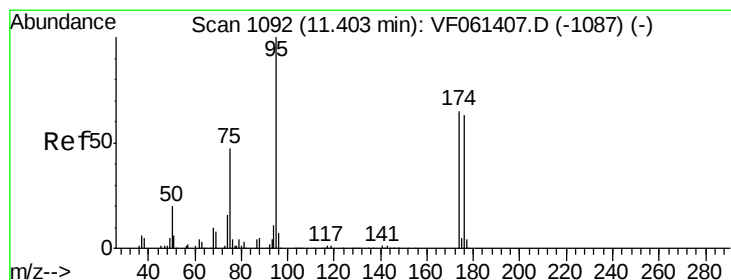
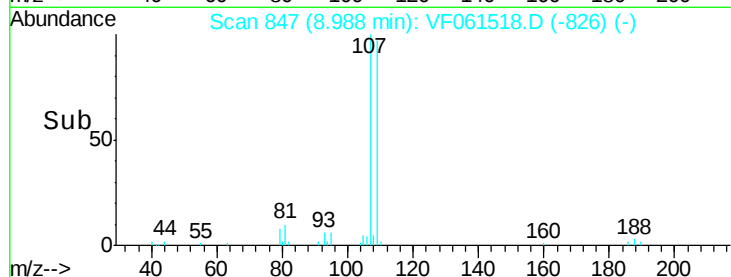
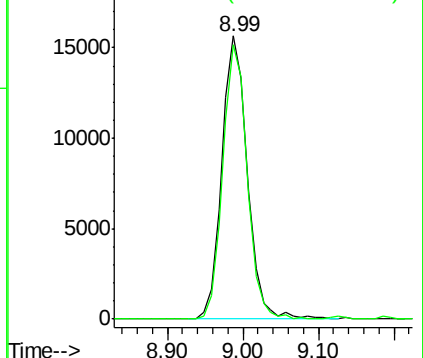
MMDadoda

1/28/2019 12:48:12 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 44.202 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

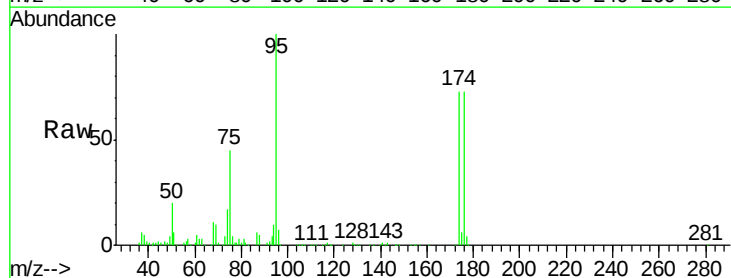
Tgt Ion: 95 Resp: 155229

Ion Ratio Lower Upper

95 100

174 73.3 0.0 130.4

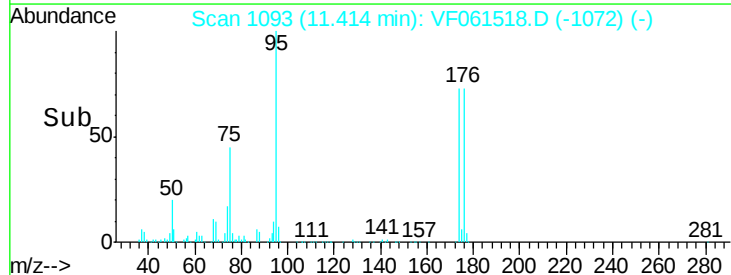
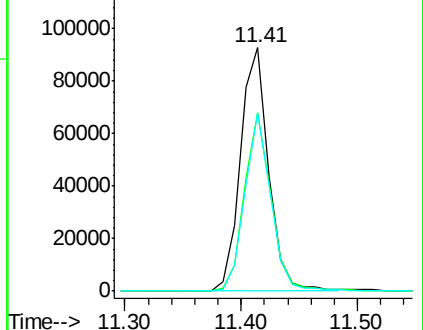
176 73.1 0.0 126.2

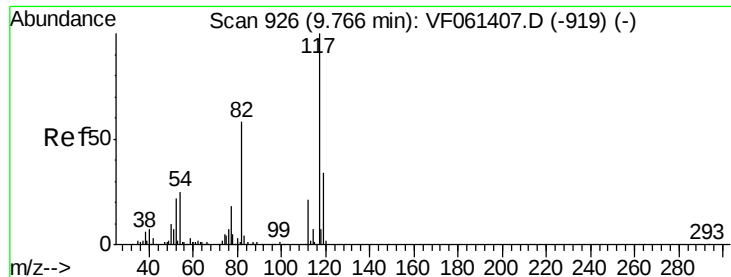


Abundance Ion 95.00 (94.70 to 95.70): VF0

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# 927

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

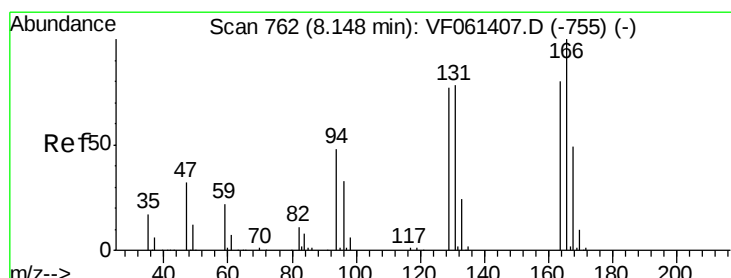
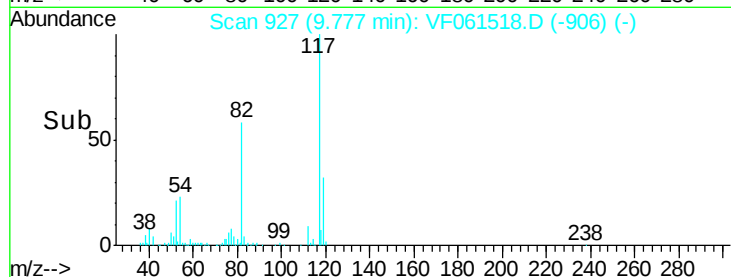
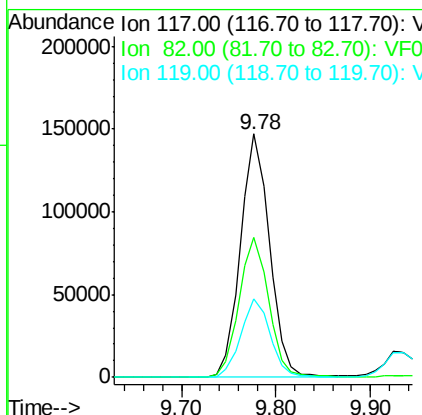
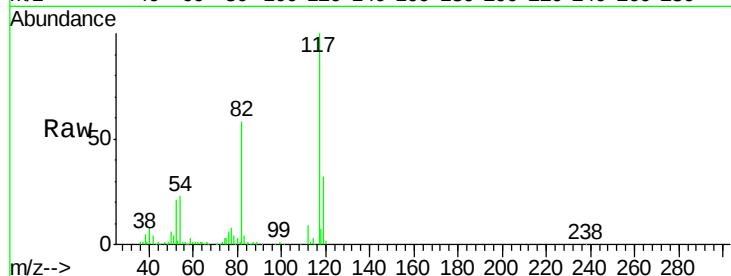
ClientSampleId :

VF01251SBS01

Tot Ion:	117	Resp:	314377
Ion Ratio	Lower	Upper	
117	100		
82	57.5	46.4	69.6
119	32.0	27.2	40.8

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#64

Tetrachloroethene

Concen: 18.700 ug/l

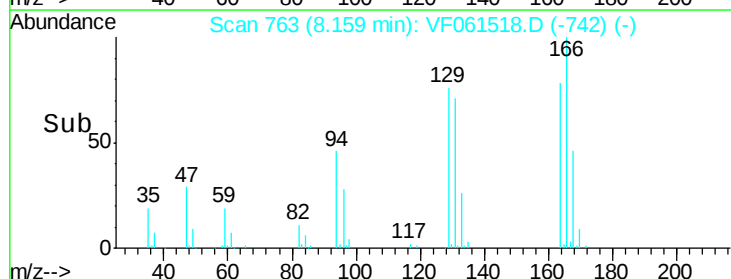
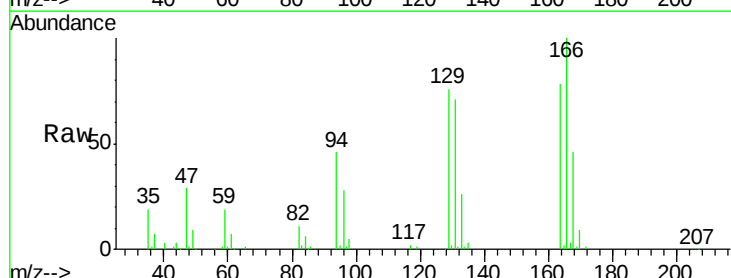
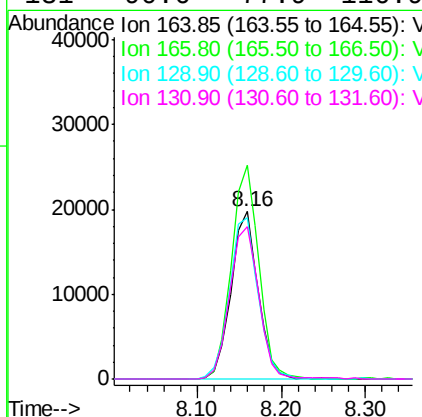
RT: 8.16 min Scan# 763

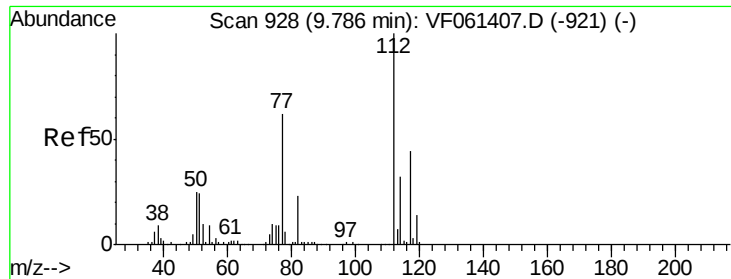
Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	164	Resp:	44209
Ion Ratio	Lower	Upper	
164	100		
166	127.4	99.6	149.4
129	96.6	76.4	114.6
131	90.6	77.9	116.9





#65

Chlorobenzene

Concen: 19.394 ug/l

RT: 9.80 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion:112 Resp: 123986

Ion Ratio Lower Upper

112 100

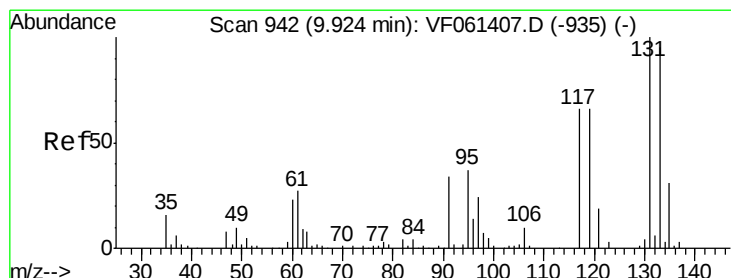
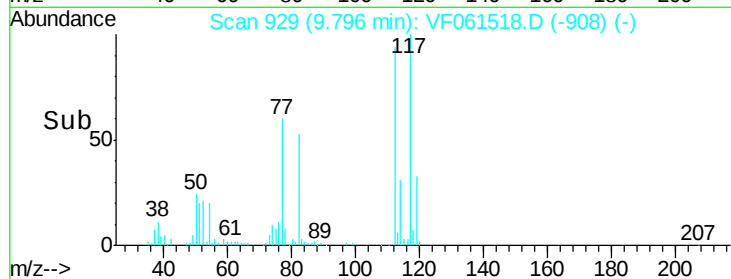
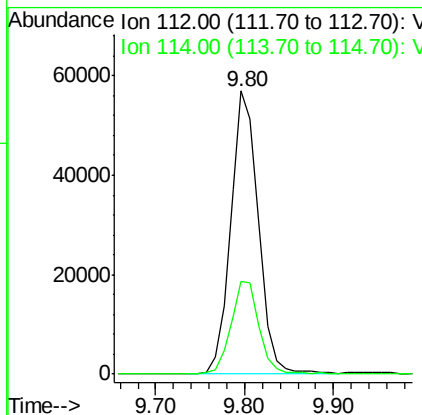
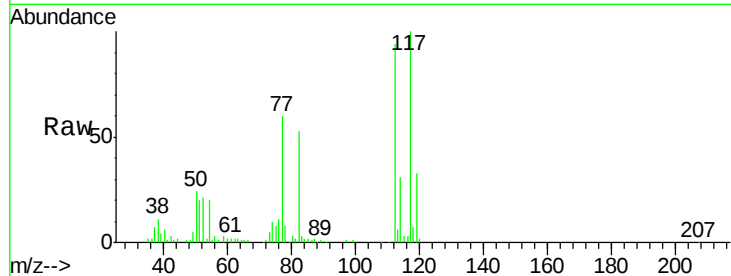
114 32.9 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.940 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

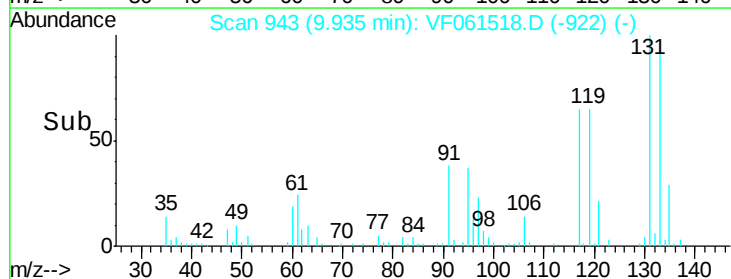
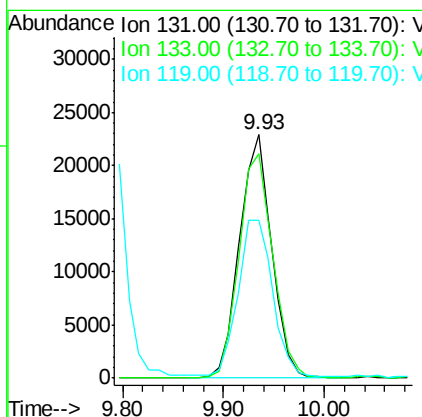
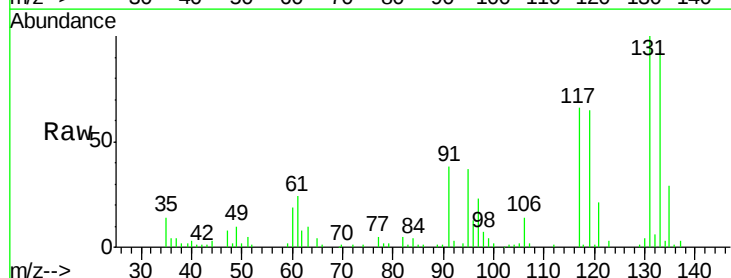
Tgt Ion:131 Resp: 50782

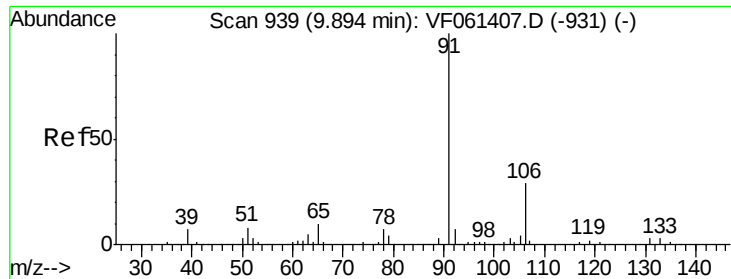
Ion Ratio Lower Upper

131 100

133 92.4 47.4 142.2

119 64.9 33.1 99.3





#67

Ethyl Benzene

Concen: 19.794 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 91 Resp: 231203

Ion Ratio Lower Upper

91 100

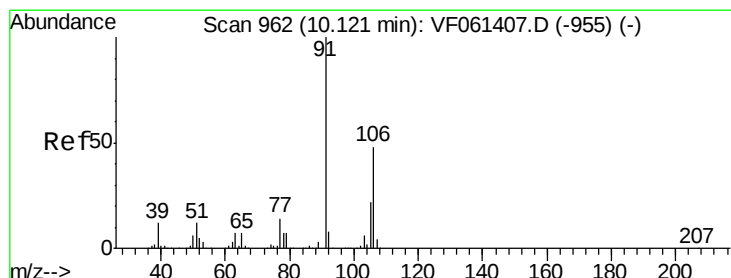
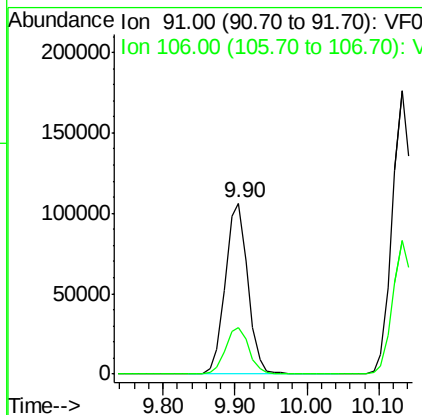
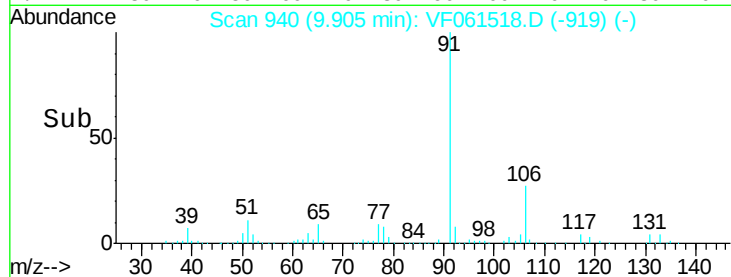
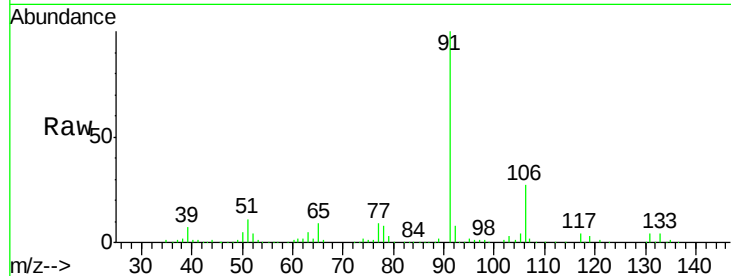
106 27.5 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#68

m/p-Xylenes

Concen: 40.031 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061518.D

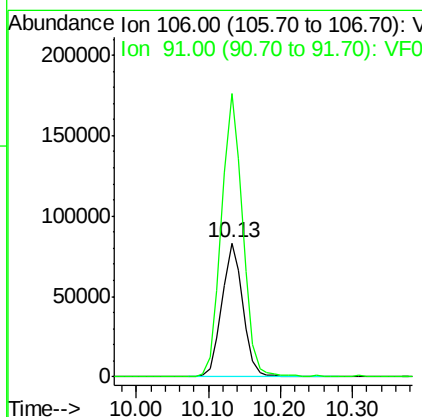
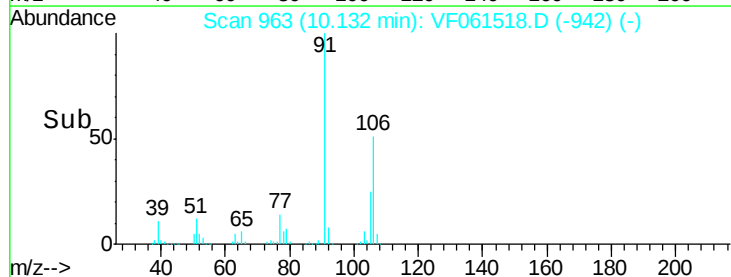
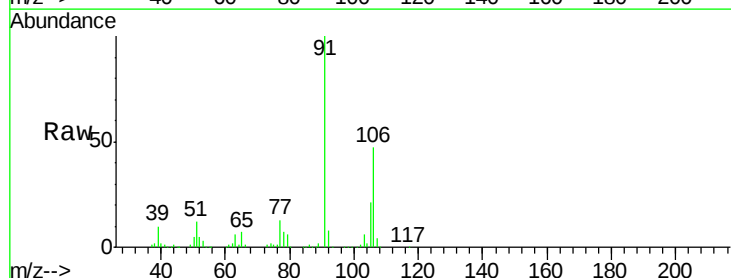
Acq: 25 Jan 2019 13:51

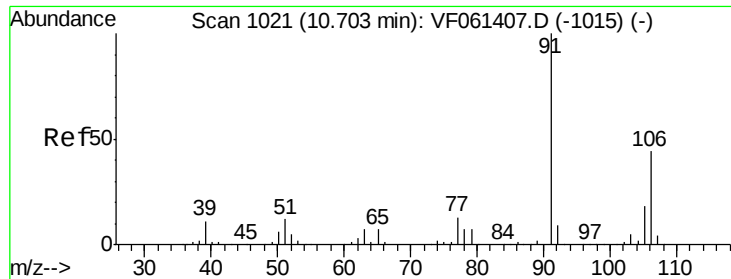
Tgt Ion: 106 Resp: 168173

Ion Ratio Lower Upper

106 100

91 211.6 166.2 249.4





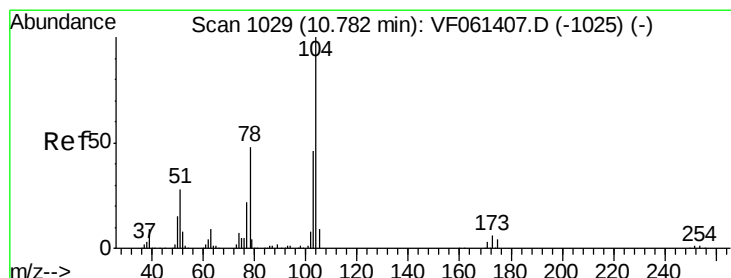
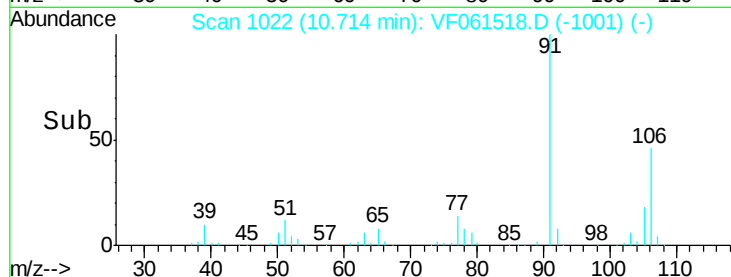
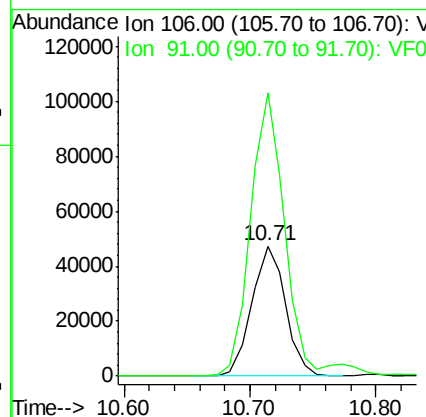
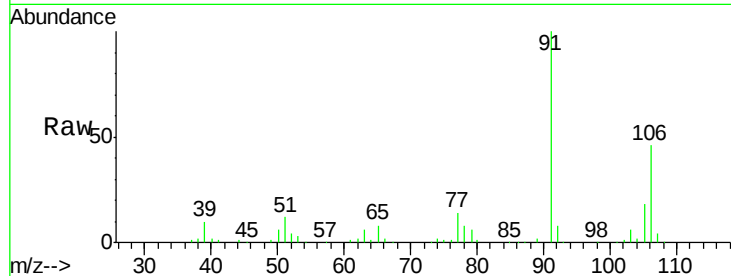
#69
o-Xylene
Concen: 19.367 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion:106 Resp: 88183
Ion Ratio Lower Upper
106 100
91 217.3 113.3 339.8

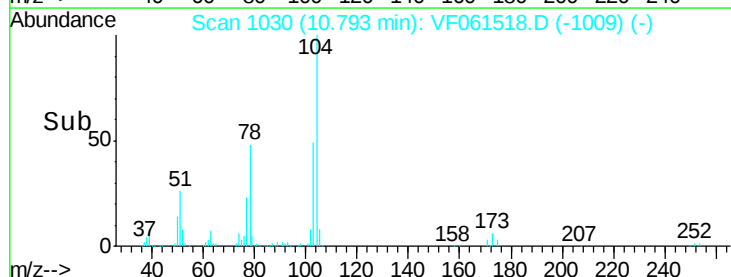
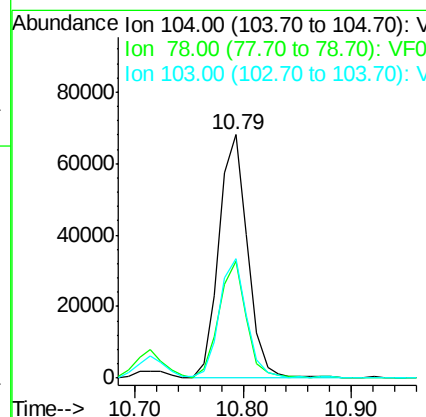
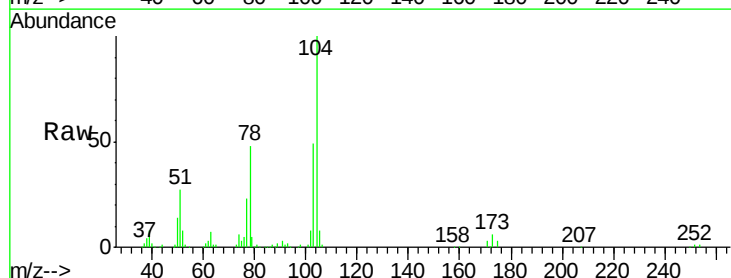
Manual Integrations
APPROVED

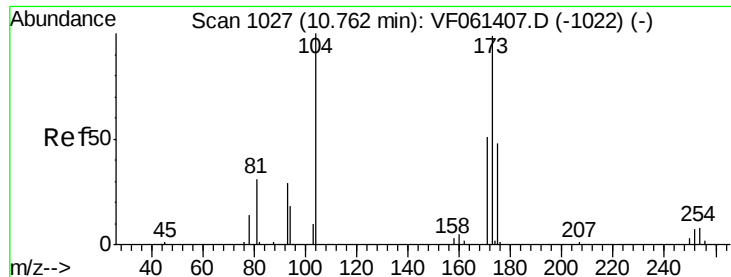
MMDadoda
1/28/2019 12:48:12 PM



#70
Styrene
Concen: 19.960 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion:104 Resp: 124401
Ion Ratio Lower Upper
104 100
78 47.8 38.8 58.2
103 48.9 37.0 55.6





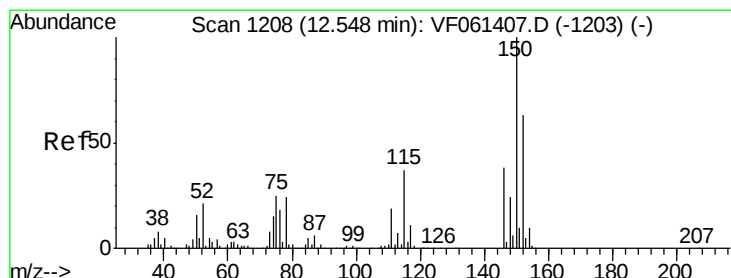
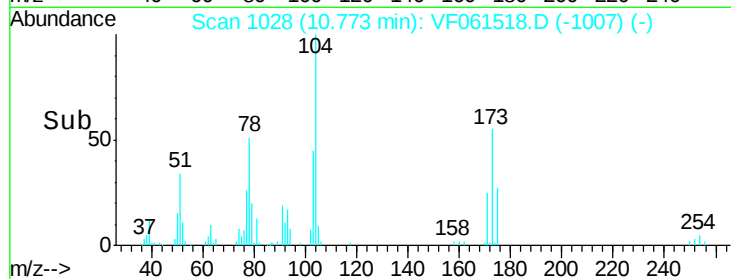
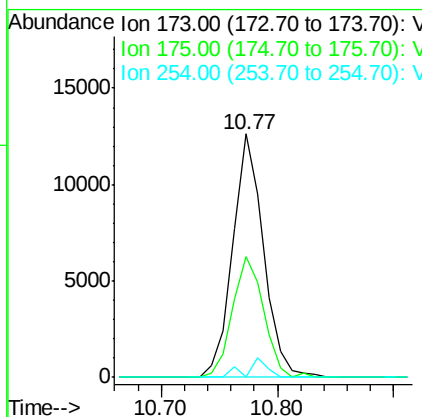
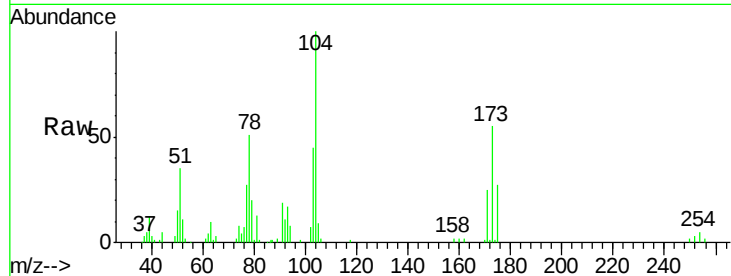
#71
Bromoform
Concen: 20.153 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.1	72.4
254	0.0	0.0	0.0

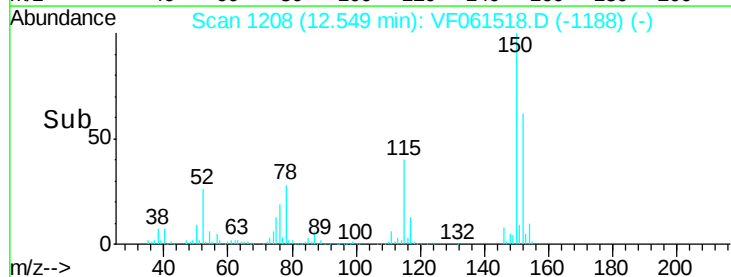
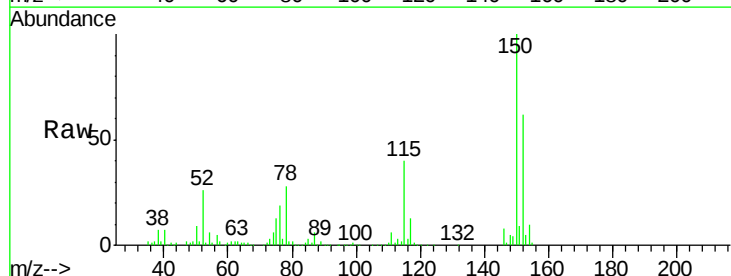
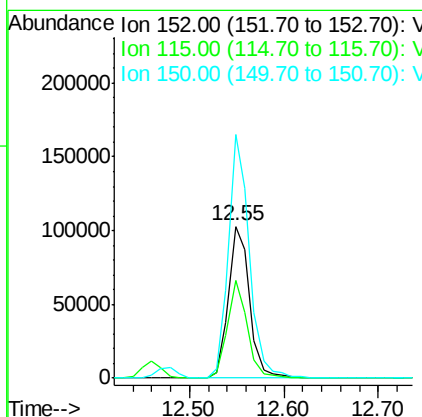
Manual Integrations
APPROVED

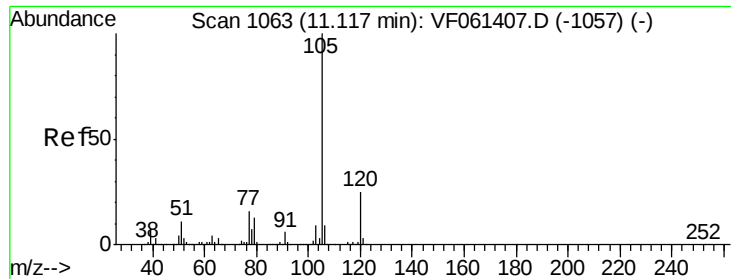
MMDadoda
1/28/2019 12:48:12 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.3	30.0	90.0
150	160.6	0.0	321.4





#73

Isopropylbenzene

Concen: 20.533 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion:105 Resp: 265627

Ion Ratio Lower Upper

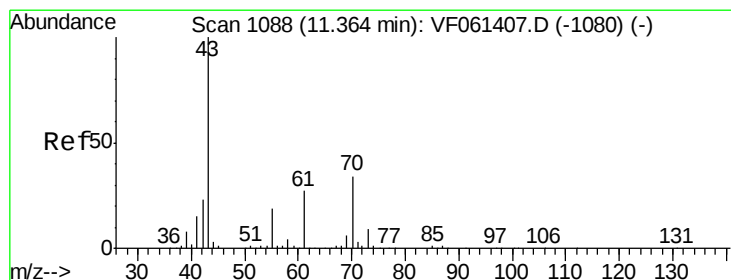
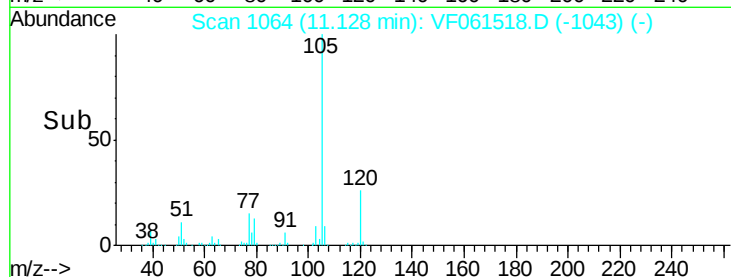
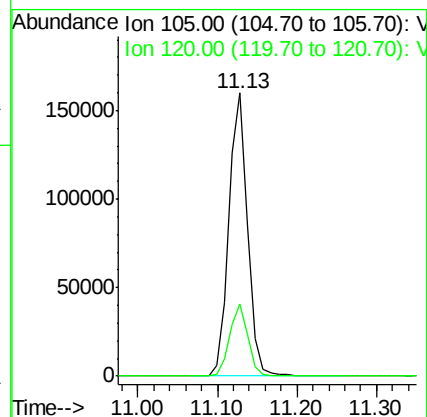
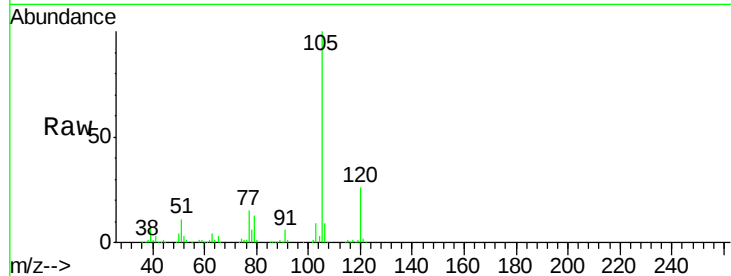
105 100

120 25.7 12.6 37.8

Manual Integrations
APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#74

N-ethyl acetate

Concen: 24.547 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion: 43 Resp: 75089

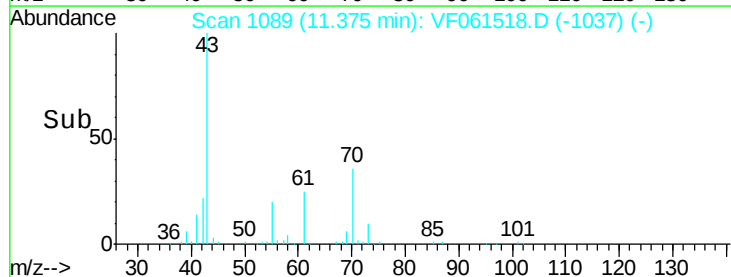
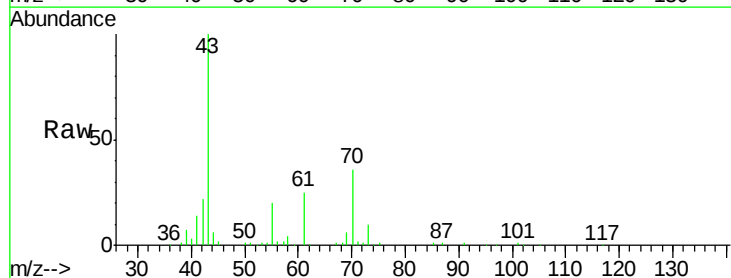
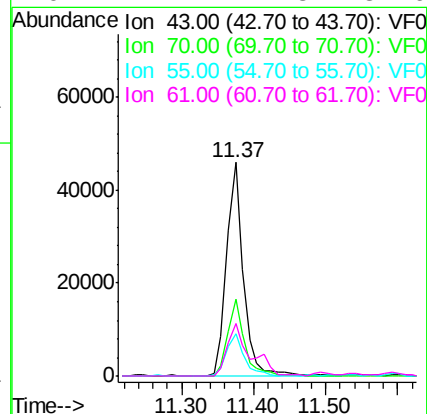
Ion Ratio Lower Upper

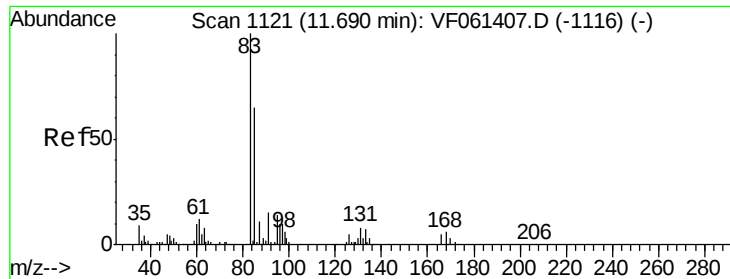
43 100

70 36.2 27.6 41.4

55 19.5 15.4 23.2

61 24.7 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.623 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

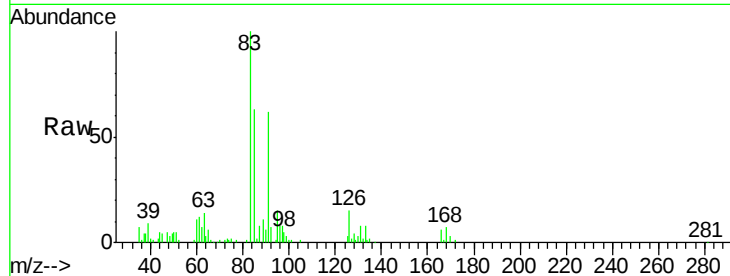
ClientSampleId :

VF01251SBS01

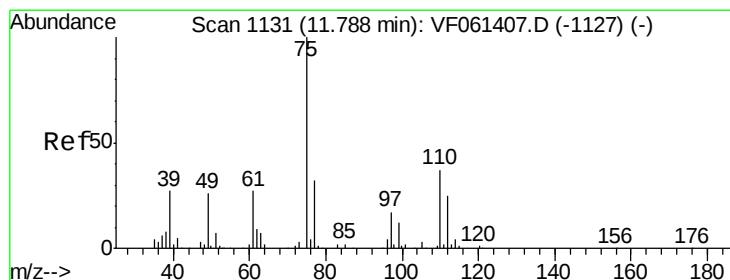
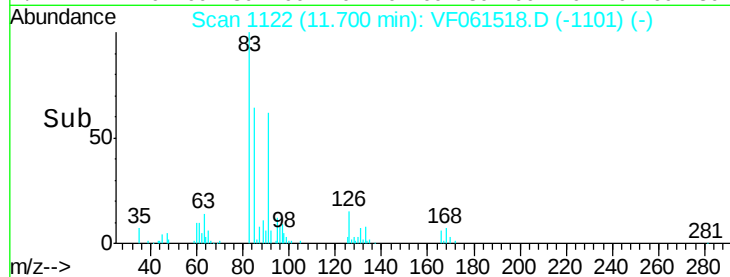
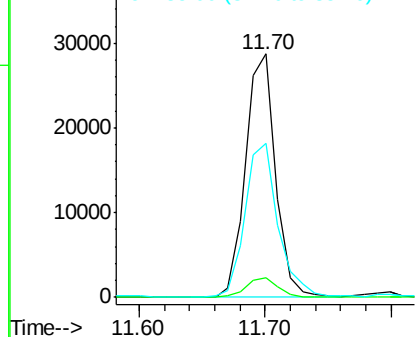
Tot Ion:	83	Resp:	47529
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.0	12.2
85	63.4	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 21.247 ug/l

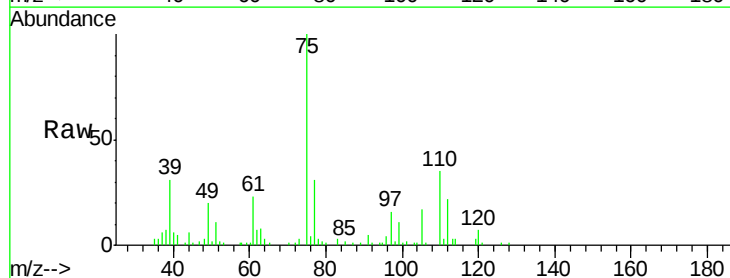
RT: 11.80 min Scan# 1132

Delta R.T. 0.01 min

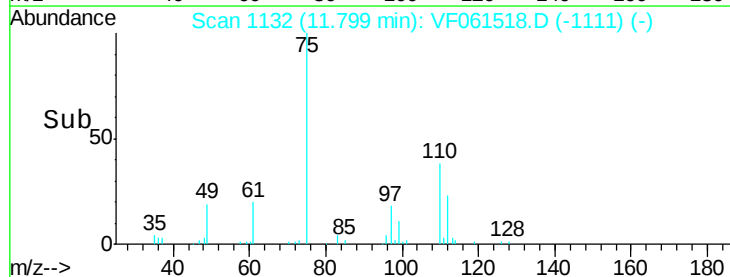
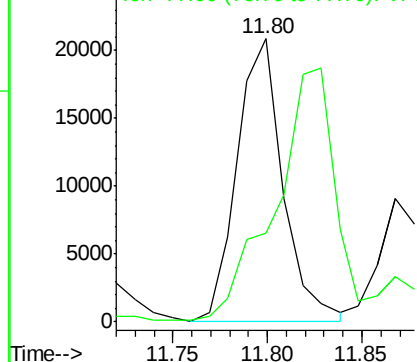
Lab File: VF061518.D

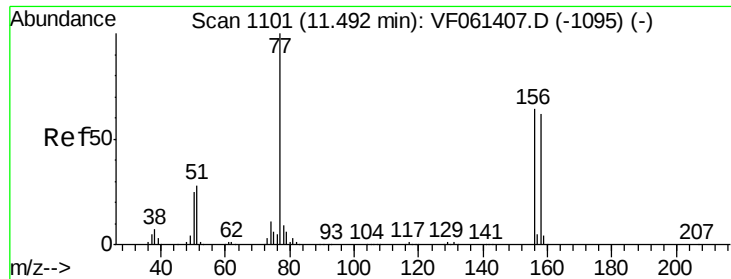
Acq: 25 Jan 2019 13:51

Tgt Ion:	75	Resp:	35185
Ion Ratio	Lower	Upper	
75	100		
77	31.4	16.1	48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





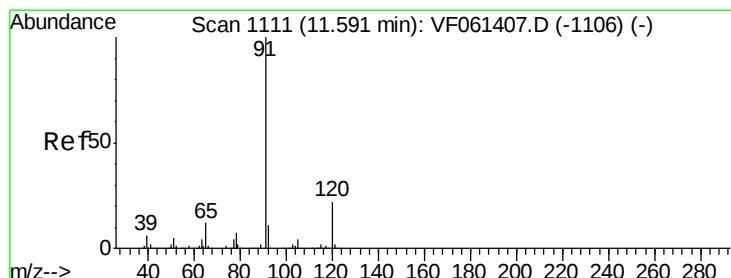
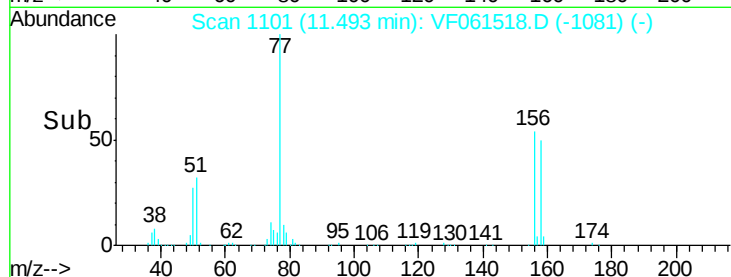
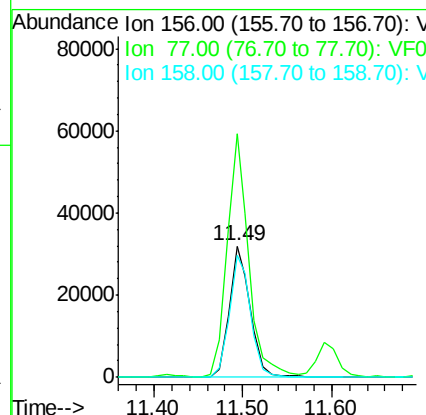
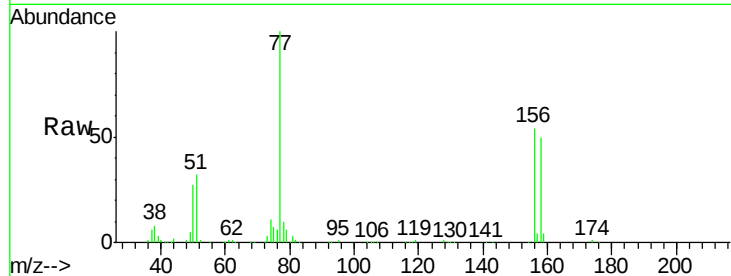
#77
Bromobenzene
Concen: 19.532 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		53362		
77	185.5	78.3	234.9		
158	93.2	48.9	146.7		

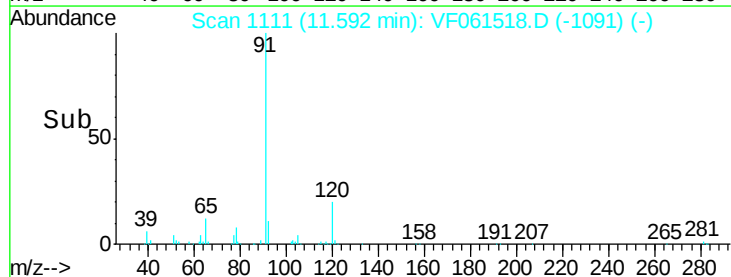
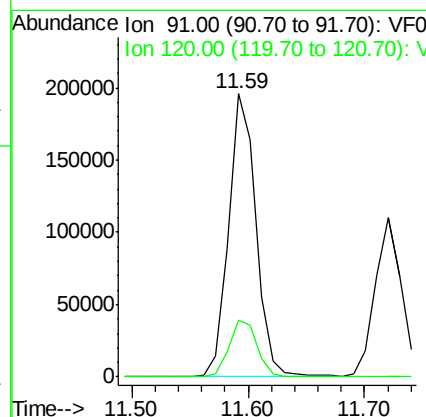
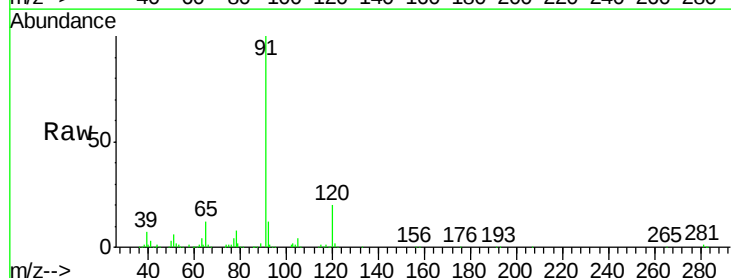
Manual Integrations
APPROVED

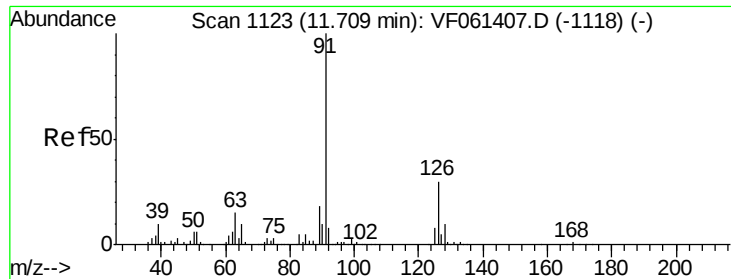
MMDadoda
1/28/2019 12:48:12 PM



#78
n-propylbenzene
Concen: 18.775 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		317170		
120	20.0	10.9	32.6		





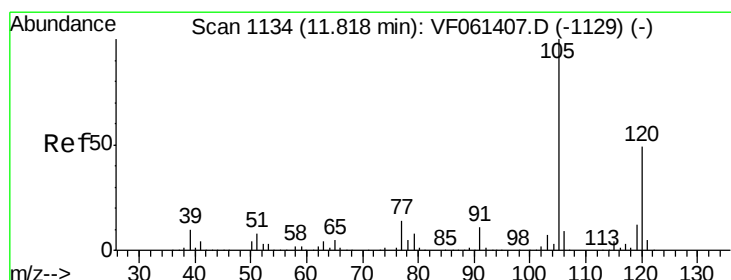
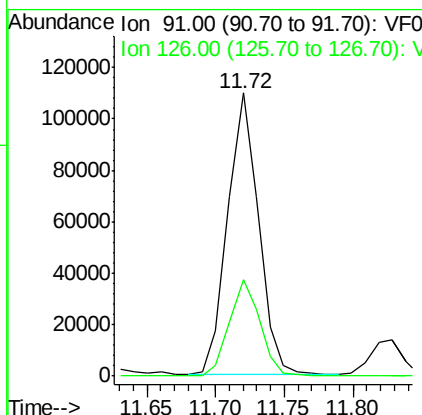
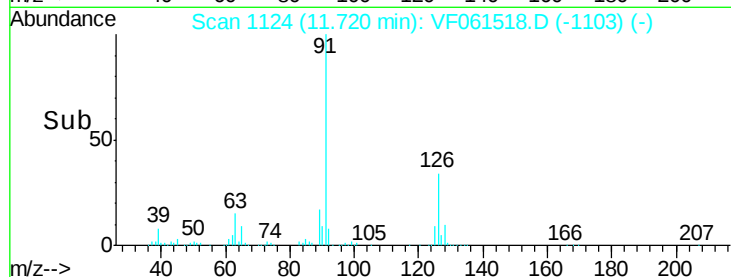
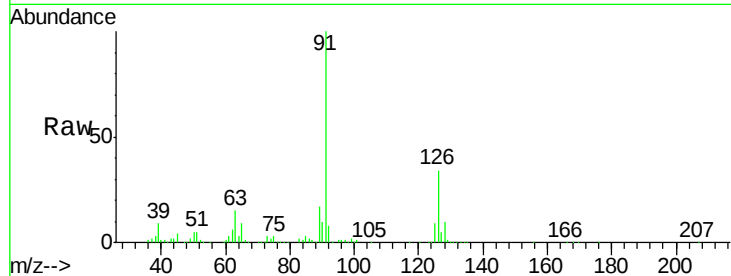
#79
 2-Chlorotoluene
 Concen: 19.185 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion: 91 Resp: 172198
 Ion Ratio Lower Upper
 91 100
 126 33.9 15.0 45.1

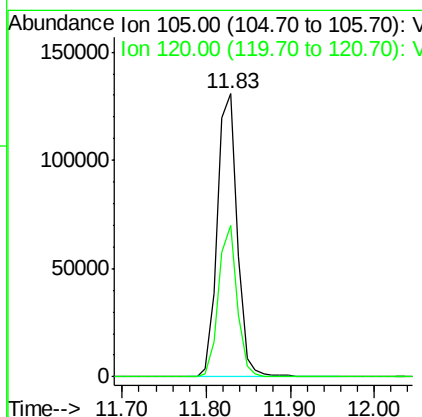
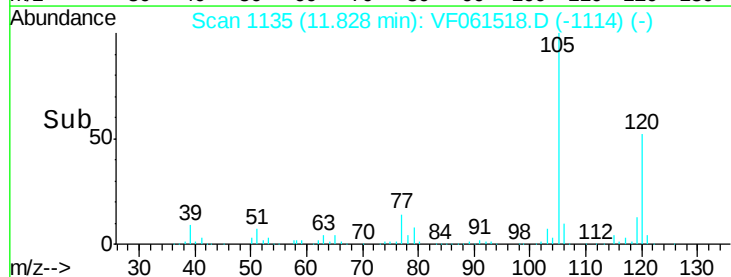
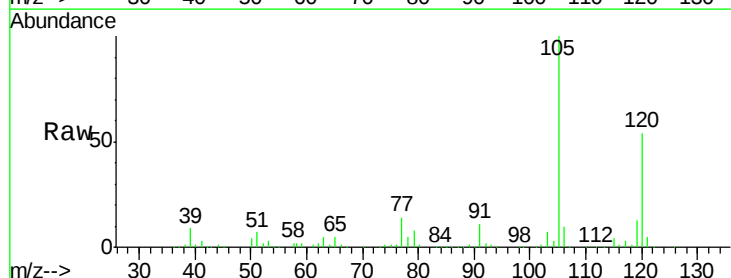
Manual Integrations
 APPROVED

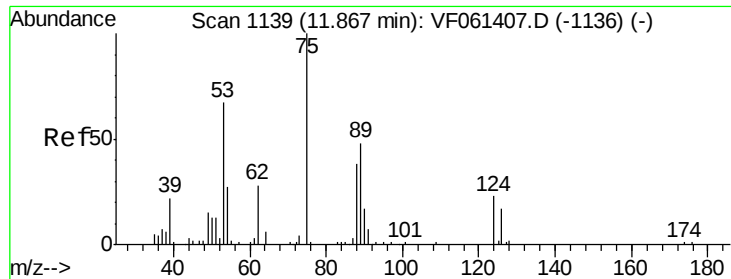
MMDadoda
 1/28/2019 12:48:12 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.714 ug/l
 RT: 11.83 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion: 105 Resp: 216254
 Ion Ratio Lower Upper
 105 100
 120 53.5 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 20.625 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

ClientSampleId :

VF01251SBS01

Tot Ion: 75 Resp: 14847
Ion Ratio Lower Upper

75 100

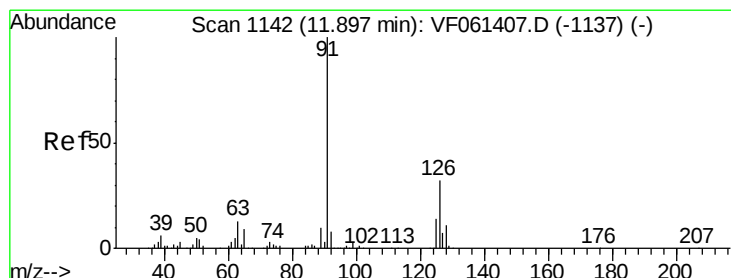
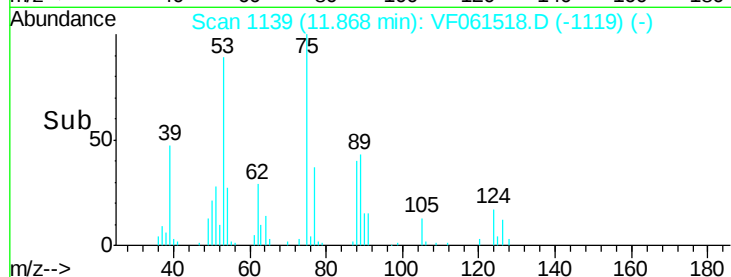
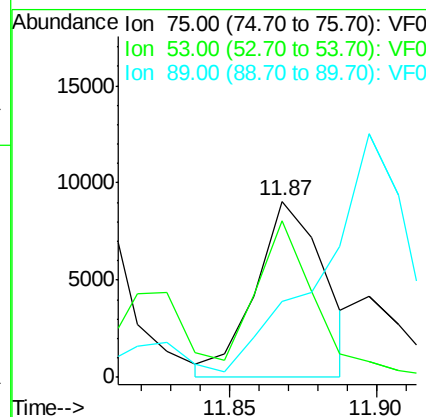
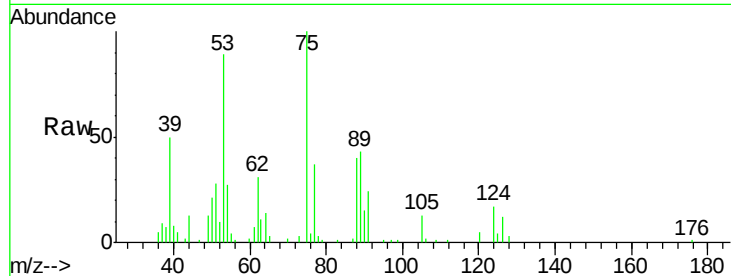
53 89.3 57.8 86.6#

89 42.8 40.7 61.1

Manual Integrations
APPROVED

MMDadoda

1/28/2019 12:48:12 PM



#82

4-Chlorotoluene

Concen: 20.048 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. 0.00 min

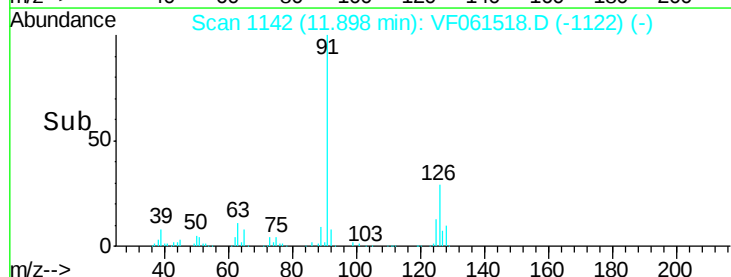
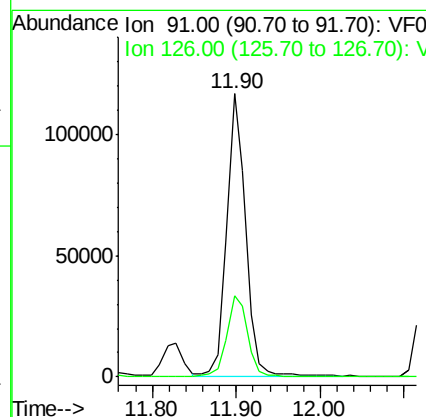
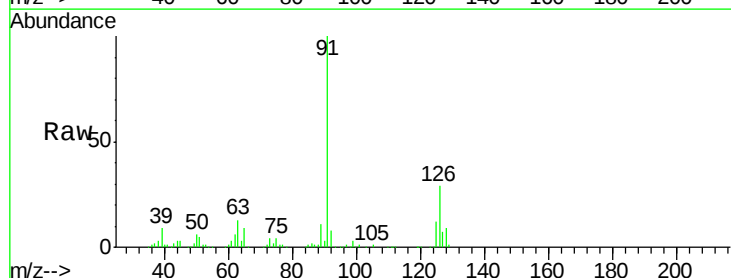
Lab File: VF061518.D

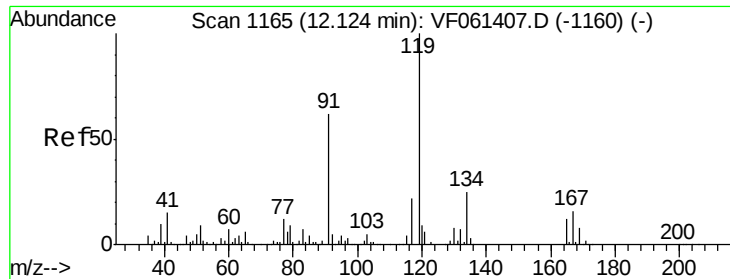
Acq: 25 Jan 2019 13:51

Tgt Ion: 91 Resp: 181588
Ion Ratio Lower Upper

91 100

126 28.7 16.0 47.9





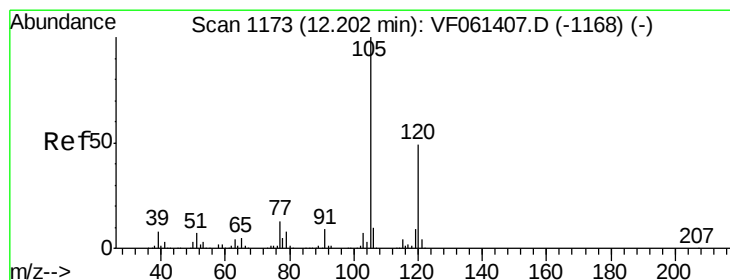
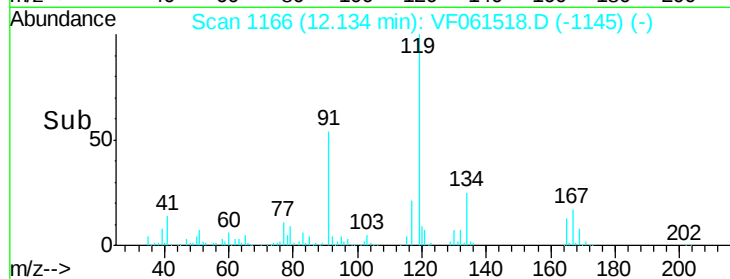
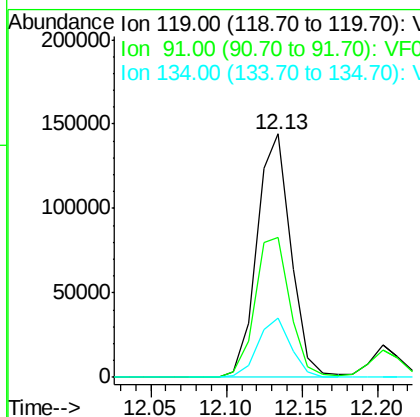
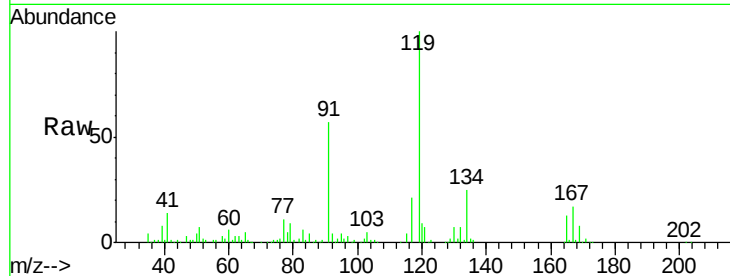
#83
tert-Butylbenzene
Concen: 20.974 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. 0.01 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	226640		
91	57.2	31.3	93.8	
134	24.5	12.4	37.0	

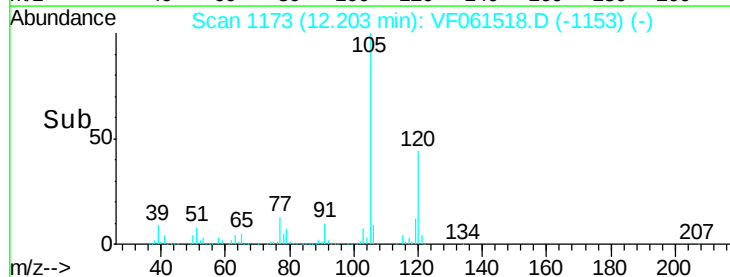
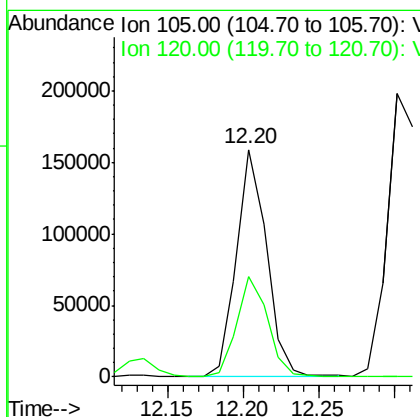
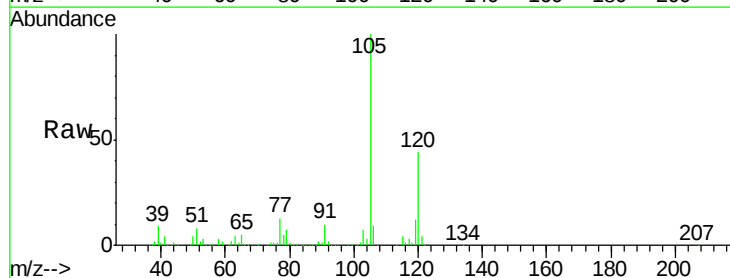
Manual Integrations
APPROVED

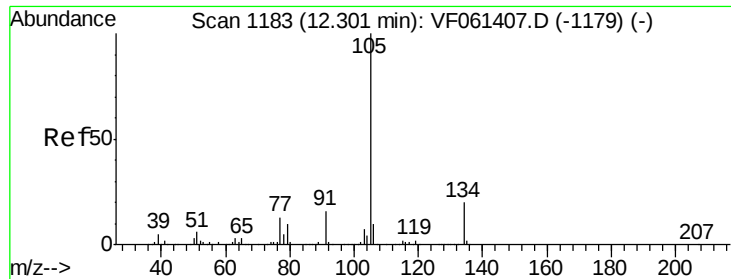
MMDadoda
1/28/2019 12:48:12 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.636 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	221914		
120	43.9	24.9	74.6	





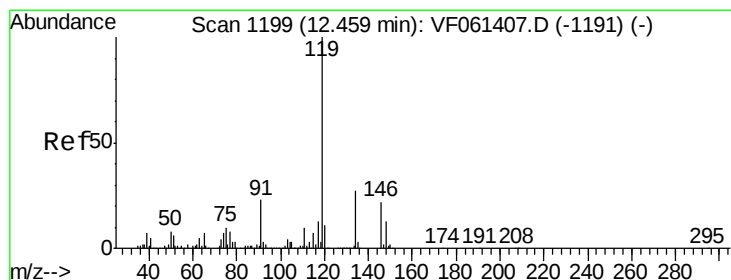
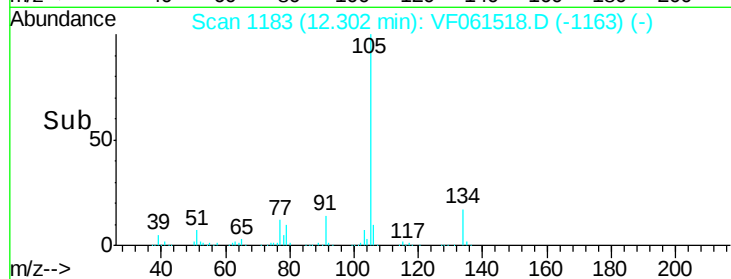
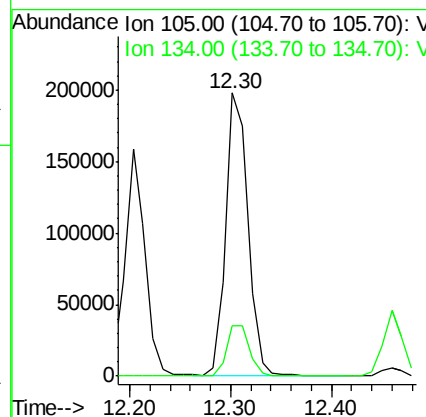
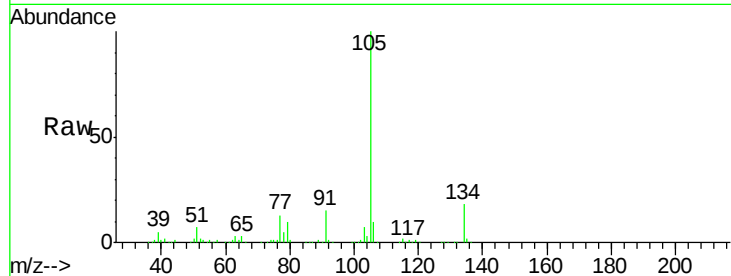
#85
 sec-Butylbenzene
 Concen: 20.868 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.6	10.0	30.0

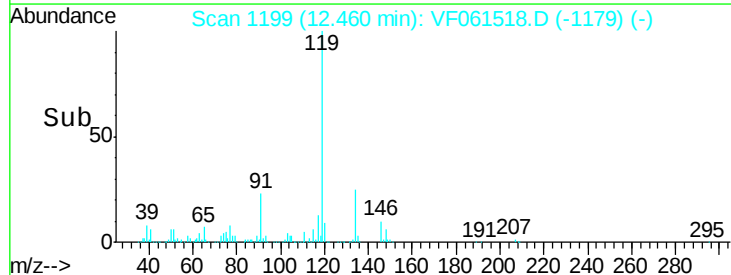
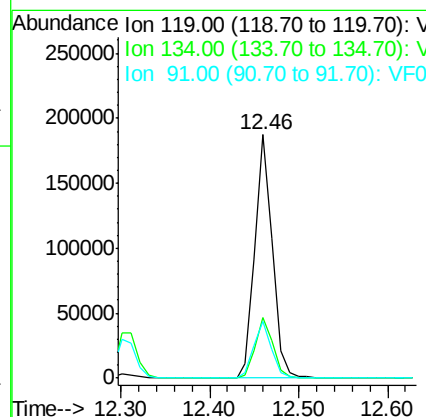
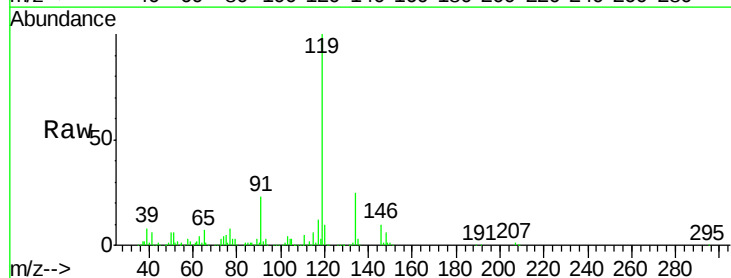
Manual Integrations
 APPROVED

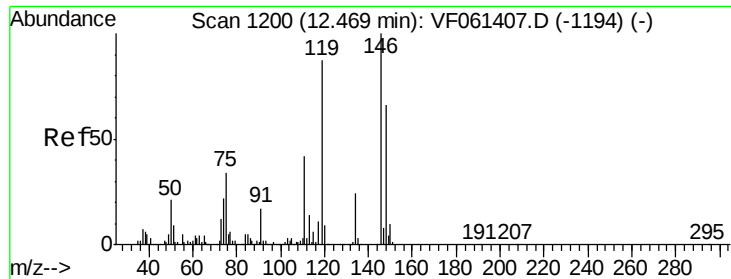
MMDadoda
 1/28/2019 12:48:12 PM



#86
 p-Isopropyltoluene
 Concen: 21.053 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.7	13.4	40.2
91	23.2	11.4	34.2





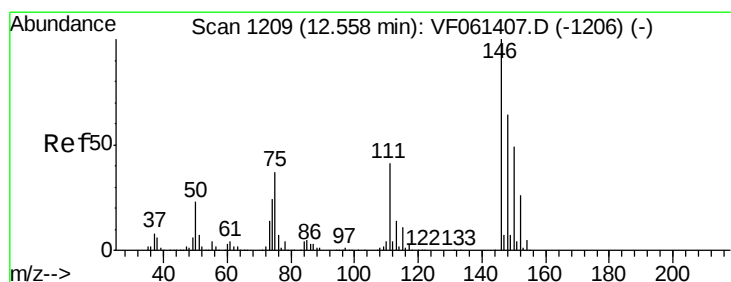
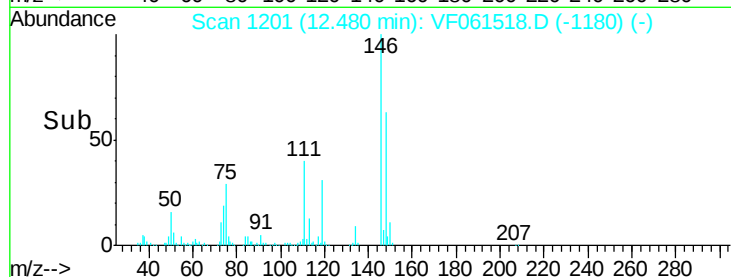
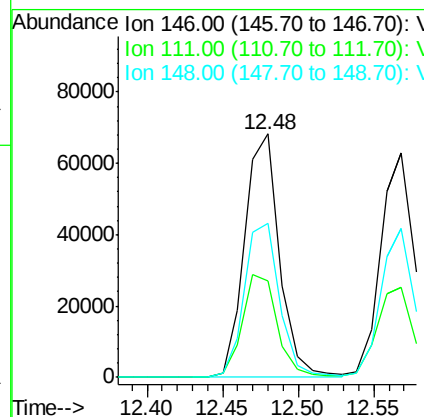
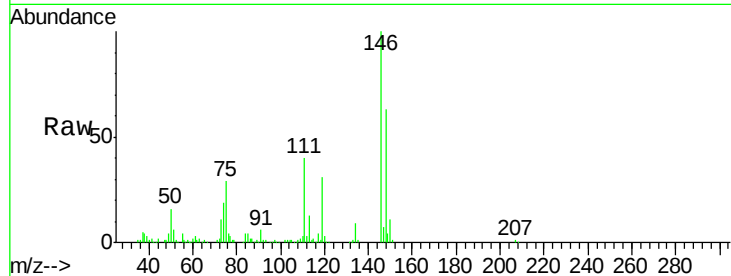
#87
 1,3-Dichlorobenzene
 Concen: 19.047 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	21.1	63.4
148	63.1	32.9	98.6

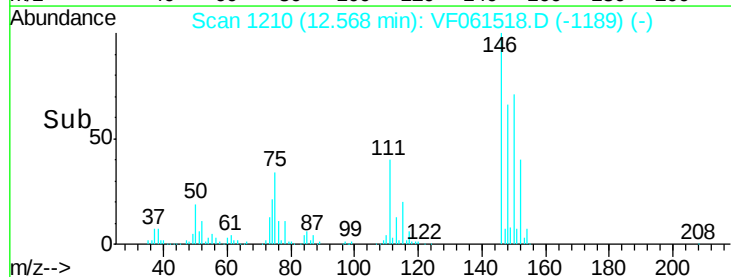
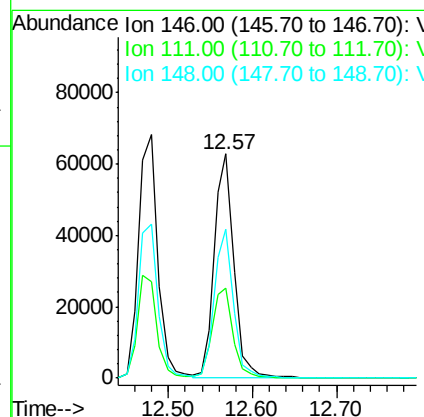
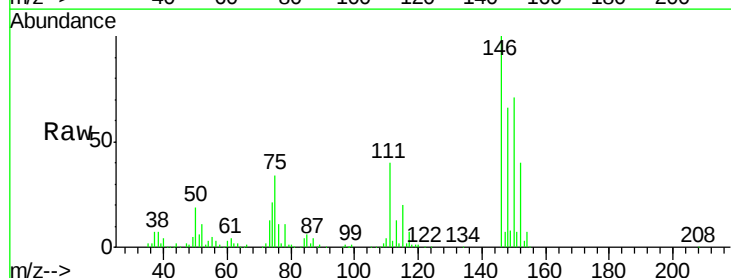
Manual Integrations
 APPROVED

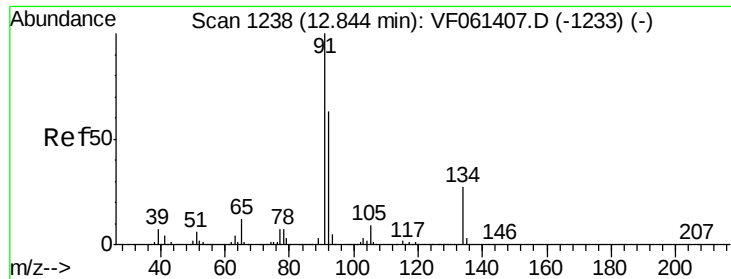
MMDadoda
 1/28/2019 12:48:12 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.627 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.8	62.2
148	66.1	32.1	96.5





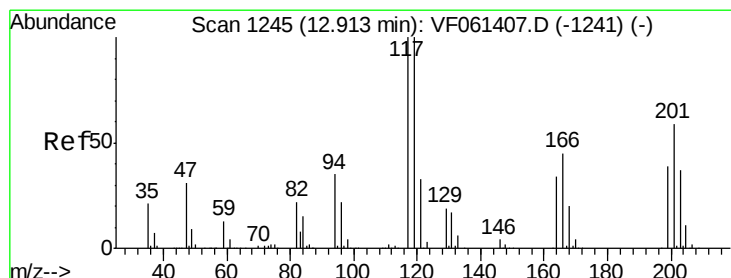
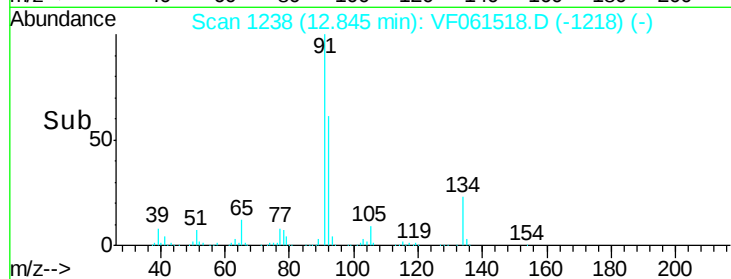
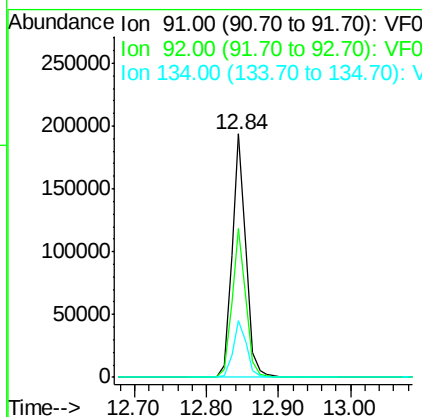
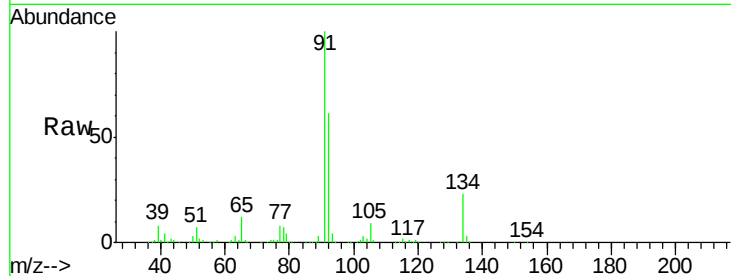
#89
n-Butylbenzene
Concen: 20.809 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Instrument :
MSVOA_F
ClientSampleId :
VF01251SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		258520		
92	61.3	31.6		94.7	
134	23.3	13.6		40.8	

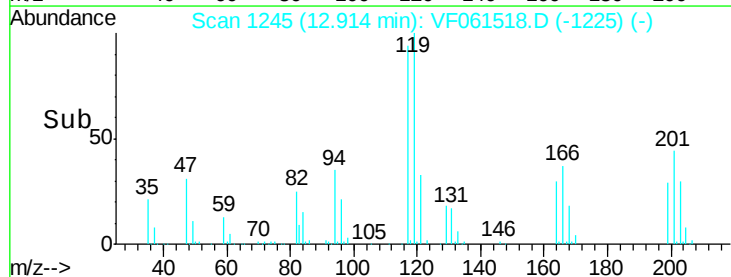
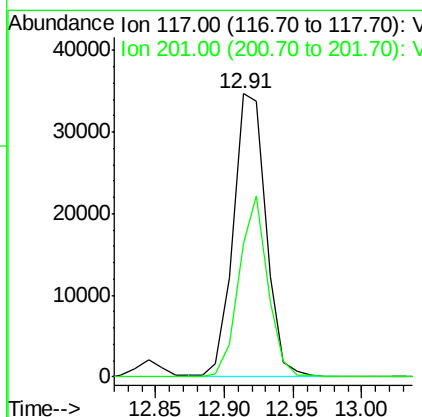
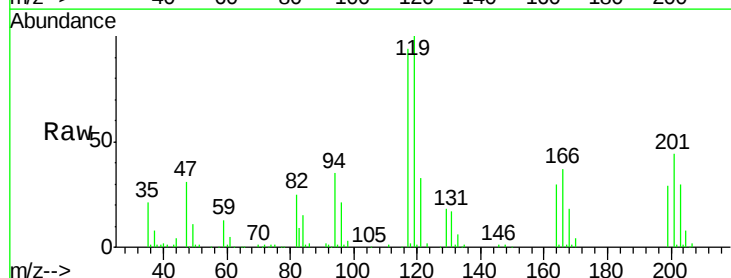
Manual Integrations
APPROVED

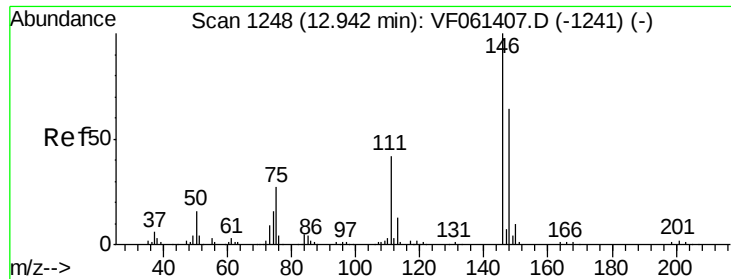
MMDadoda
1/28/2019 12:48:12 PM



#90
Hexachloroethane
Concen: 20.301 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061518.D
Acq: 25 Jan 2019 13:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		57646		
201	47.0	29.3		87.8	





#91

1,2-Dichlorobenzene

Concen: 18.974 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

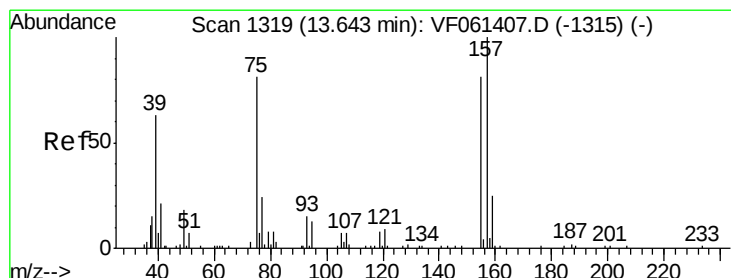
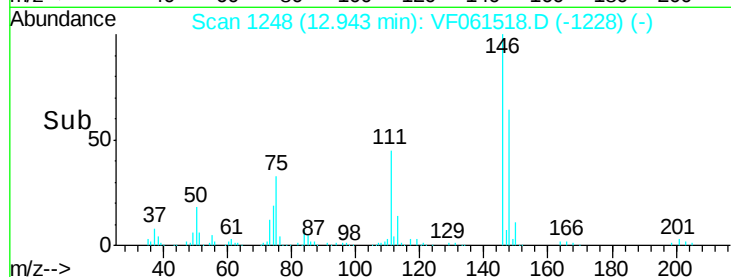
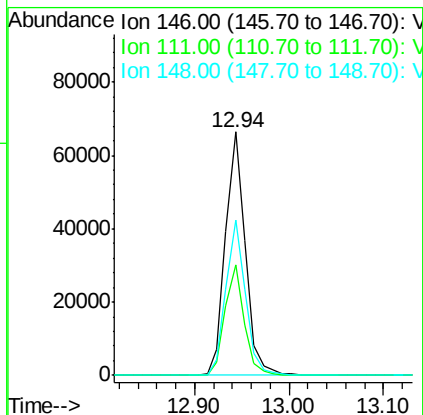
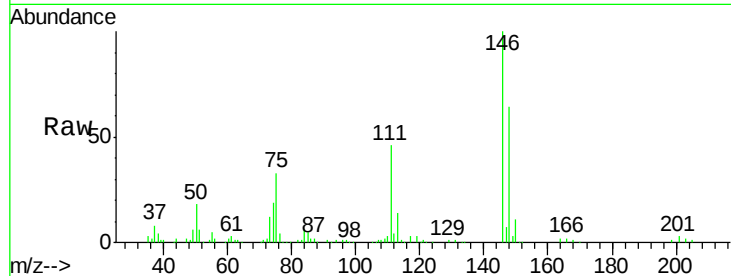
ClientSampleId :

VF01251SBS01

Tot Ion:	146	Resp:	96976
Ion Ratio	Lower	Upper	
146	100		
111	45.5	21.1	63.3
148	63.7	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.070 ug/l

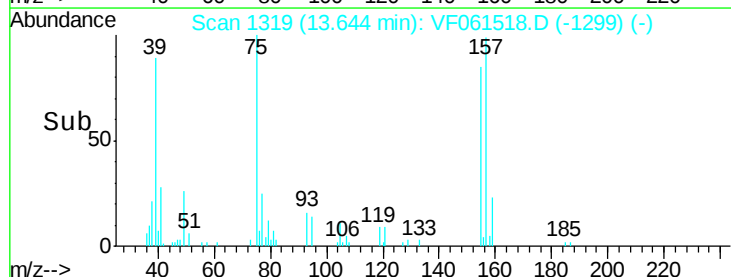
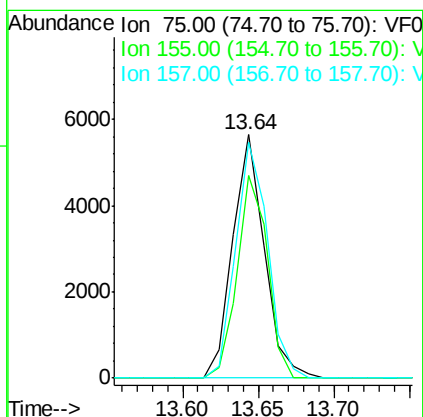
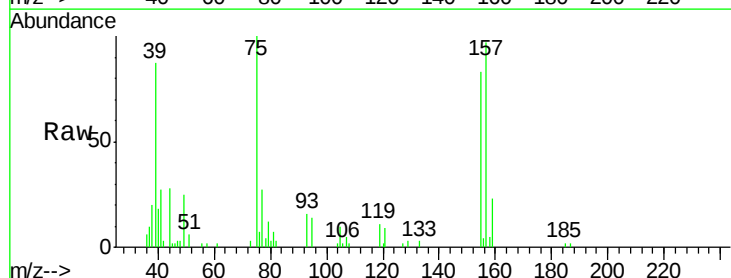
RT: 13.64 min Scan# 1319

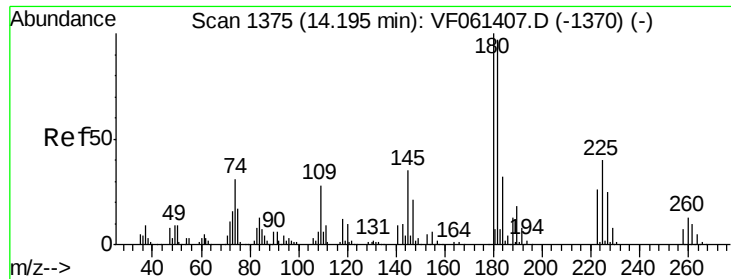
Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	75	Resp:	8204
Ion Ratio	Lower	Upper	
75	100		
155	83.2	49.7	149.1
157	97.0	61.4	184.1





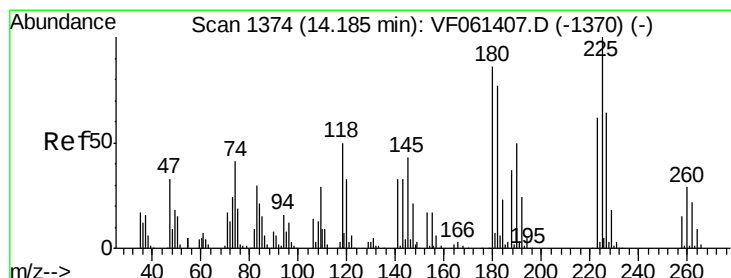
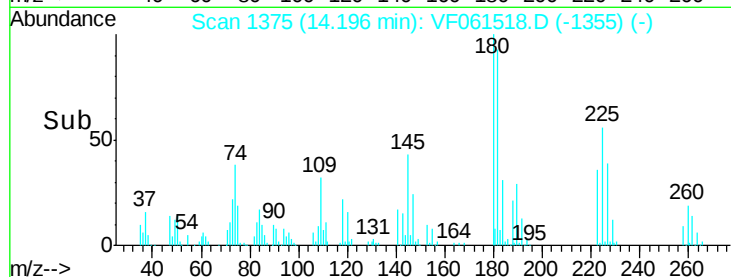
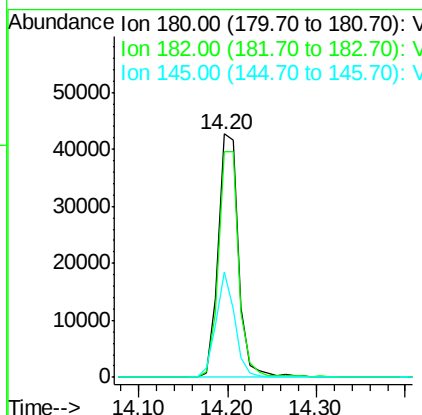
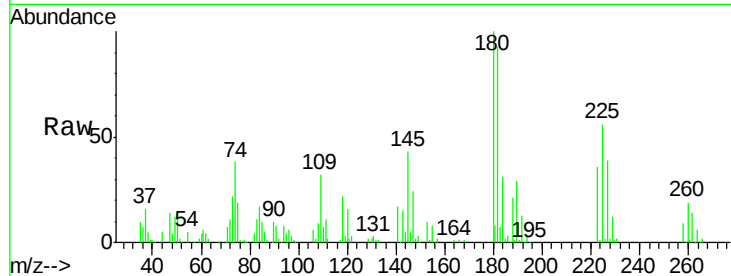
#93
 1,2,4-Trichlorobenzene
 Concen: 19.349 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF01251SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	69275		
182	92.5		48.5	145.6
145	43.1		17.5	52.6

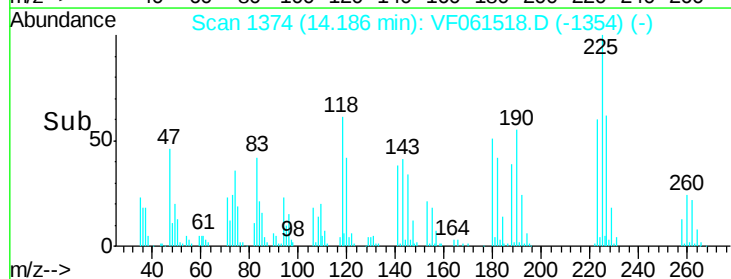
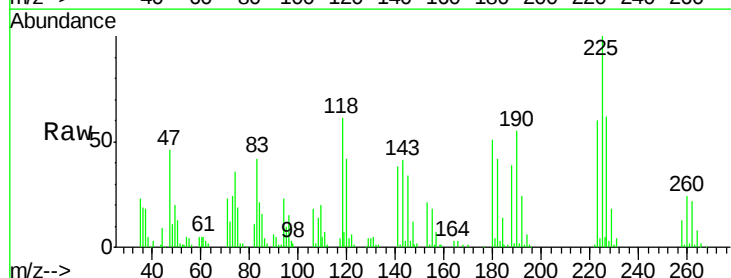
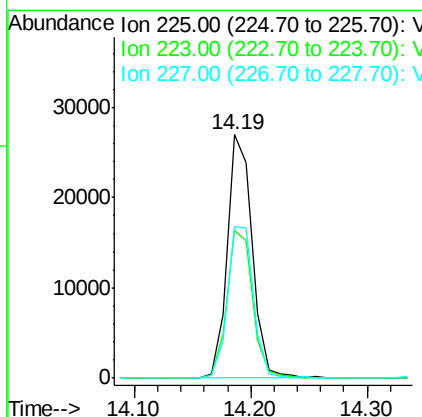
Manual Integrations
 APPROVED

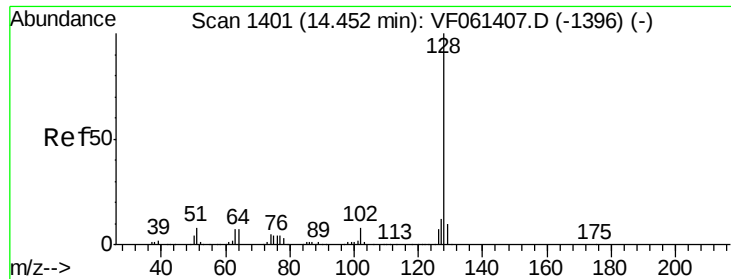
MMDadoda
 1/28/2019 12:48:12 PM



#94
 Hexachlorobutadiene
 Concen: 17.905 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061518.D
 Acq: 25 Jan 2019 13:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	39779		
223	60.4		31.1	93.2
227	62.0		32.2	96.6





#95

Naphthalene

Concen: 18.514 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Instrument :

MSVOA_F

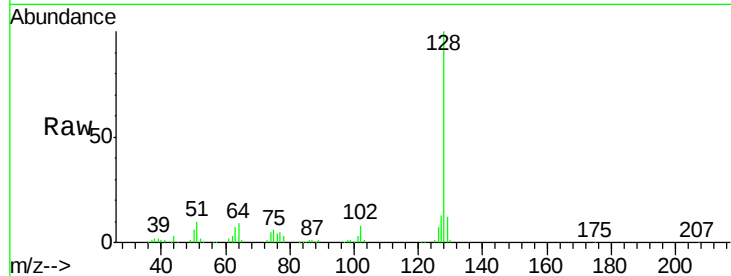
ClientSampleId :

VF01251SBS01

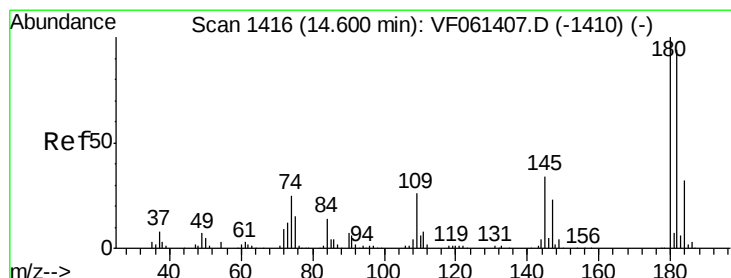
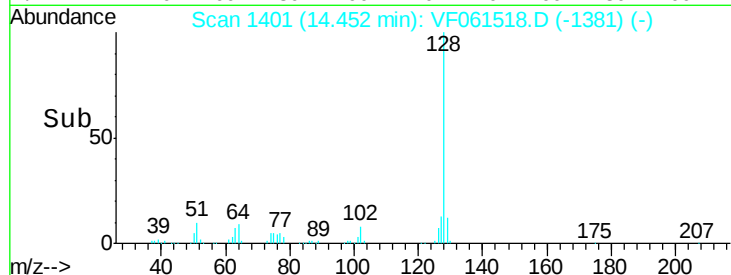
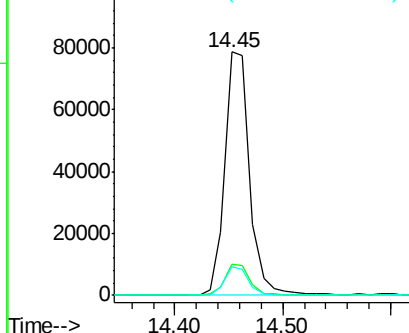
Tot Ion:	128	Resp:	125935
Ion Ratio	Lower	Upper	
128	100		
127	12.7	9.5	14.3
129	12.0	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/28/2019 12:48:12 PM



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: 18.506 ug/l

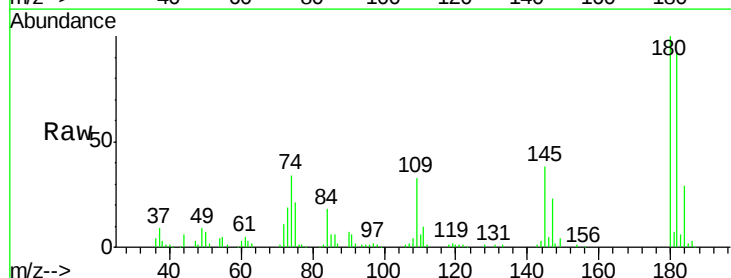
RT: 14.60 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VF061518.D

Acq: 25 Jan 2019 13:51

Tgt Ion:	180	Resp:	61334
Ion Ratio	Lower	Upper	
180	100		
182	93.0	47.0	141.2
145	37.6	17.1	51.2



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

