

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061455.D
 Acq On : 18 Jan 2019 13:11
 Operator : VA/AP
 Sample : VF0118SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:11:14 AM

Quant Time: Jan 19 04:22:38 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	186916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	349017	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	309308	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	154743	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	108785	47.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.28%	
35) Dibromofluoromethane	4.11	113	130820	47.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.00%	
50) Toluene-d8	7.55	98	351647	46.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.20%	
62) 4-Bromofluorobenzene	11.41	95	165045	46.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.62%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	68651	18.693	ug/l	91
3) Chloromethane	1.09	50	57100	21.204	ug/l	94
4) Vinyl Chloride	1.14	62	50374	21.029	ug/l	92
5) Bromomethane	1.32	94	32253	20.648	ug/l	97
6) Chloroethane	1.39	64	22919	21.592	ug/l	95
7) Trichlorofluoromethane	1.48	101	85575m	18.376	ug/l	
8) Diethyl Ether	1.63	74	12531	21.000	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.84	101	47643	21.292	ug/l	93
10) Methyl Iodide	1.91	142	71527m	20.619	ug/l	
11) Tert butyl alcohol	2.56	59	10142	103.827	ug/l	95
12) 1,1-Dichloroethene	1.80	96	36105	21.718	ug/l	92
13) Acrolein	2.00	56	7615	97.101	ug/l	88
14) Allyl chloride	2.10	41	57324	31.411	ug/l	89
15) Acrylonitrile	2.93	53	27192	108.676	ug/l	94
16) Acetone	2.23	43	58058	125.407	ug/l	97
17) Carbon Disulfide	1.81	76	108396m	20.912	ug/l	
18) Methyl Acetate	2.34	43	21650	23.581	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	77417	20.774	ug/l	95
20) Methylene Chloride	2.17	84	38651m	23.669	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	38574	21.090	ug/l	94
22) Diisopropyl ether	2.80	45	125603	21.231	ug/l	98
23) Vinyl Acetate	3.18	43	318359	123.975	ug/l	98
24) 1,1-Dichloroethane	2.87	63	76226	20.529	ug/l	97
25) 2-Butanone	4.34	43	93086	120.911	ug/l	96
26) 2,2-Dichloropropane	3.60	77	45871	20.108	ug/l	91
27) cis-1,2-Dichloroethene	3.48	96	60094	22.257	ug/l	98
28) Bromochloromethane	3.71	49	35556	21.303	ug/l	96
29) Tetrahydrofuran	4.07	42	37847	114.168	ug/l	95
30) Chloroform	3.85	83	108563	21.665	ug/l	99
31) Cyclohexane	3.68	56	84744m	22.848	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	68755	18.713	ug/l	96
36) 1,1-Dichloropropene	4.28	75	80269	19.836	ug/l	99
37) Ethyl Acetate	4.11	43	36260	22.416	ug/l #	75
38) Carbon Tetrachloride	3.99	117	59911m	16.935	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061455.D
 Acq On : 18 Jan 2019 13:11
 Operator : VA/AP
 Sample : VF0118SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0118SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:11:14 AM

Quant Time: Jan 19 04:22:38 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	5.45	83	86372	19.695	ug/l	97
40) Benzene	4.62	78	174740	19.406	ug/l	100
41) Methacrylonitrile	4.75	41	18877	21.931	ug/l	95
42) 1,2-Dichloroethane	4.94	62	58543	18.245	ug/l	100
43) Isopropyl Acetate	6.96	43	40221	19.811	ug/l #	89
44) Trichloroethene	5.50	130	57329	20.754	ug/l	97
45) 1,2-Dichloropropane	6.24	63	48906	20.694	ug/l	99
46) Dibromomethane	6.08	93	29638	18.861	ug/l	87
47) Bromodichloromethane	6.38	83	75476	19.412	ug/l #	98
48) Methyl methacrylate	6.71	41	29357	21.534	ug/l	96
49) 1,4-Dioxane	6.70	88	4283	409.056	ug/l	97
51) 4-Methyl-2-Pentanone	8.25	43	170749	114.404	ug/l	96
52) Toluene	7.62	92	113305	19.108	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	64062	20.750	ug/l	98
54) cis-1,3-Dichloropropene	7.29	75	81107	21.017	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	34049	20.220	ug/l	92
56) Ethyl methacrylate	8.62	69	38501	19.652	ug/l	96
57) 1,3-Dichloropropane	8.85	76	60679	19.225	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.29	63	25306	137.141	ug/l	96
59) 2-Hexanone	9.48	43	123202	118.377	ug/l	98
60) Dibromochloromethane	8.71	129	48127	19.550	ug/l	95
61) 1,2-Dibromoethane	8.98	107	37789	19.603	ug/l	100
64) Tetrachloroethene	8.15	164	44549	19.152	ug/l	92
65) Chlorobenzene	9.79	112	130325	20.719	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	52159	20.816	ug/l	94
67) Ethyl Benzene	9.90	91	239963	20.881	ug/l	99
68) m/p-Xylenes	10.13	106	164379	39.769	ug/l	90
69) o-Xylene	10.71	106	94665	21.132	ug/l	96
70) Styrene	10.79	104	129468	21.113	ug/l	99
71) Bromoform	10.77	173	24437	21.706	ug/l	97
73) Isopropylbenzene	11.12	105	285949	22.720	ug/l	98
74) N-amyl acetate	11.37	43	74488	25.029	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	48055	21.433	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	35523	22.050	ug/l	95
77) Bromobenzene	11.50	156	57266	21.545	ug/l	98
78) n-propylbenzene	11.60	91	335320	20.465	ug/l	100
79) 2-Chlorotoluene	11.71	91	187539	21.476	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	232759	22.917	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.86	75	12874m	18.383	ug/l	
82) 4-Chlorotoluene	11.89	91	189730	21.531	ug/l	97
83) tert-Butylbenzene	12.13	119	233286	22.191	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	221885	21.209	ug/l	95
85) sec-Butylbenzene	12.31	105	324130	22.704	ug/l	98
86) p-Isopropyltoluene	12.45	119	268440	22.906	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	112331	20.117	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	106843	21.272	ug/l	98
89) n-Butylbenzene	12.84	91	278280	23.025	ug/l	95
90) Hexachloroethane	12.92	117	63155	22.861	ug/l	100
91) 1,2-Dichlorobenzene	12.94	146	100377	20.188	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8258	20.766	ug/l	75

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061455.D
 Acq On : 18 Jan 2019 13:11
 Operator : VA/AP
 Sample : VF0118SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:11:14 AM

Quant Time: Jan 19 04:22:38 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	70926	20.363	ug/l	99
94) Hexachlorobutadiene	14.19	225	42358	19.598	ug/l	95
95) Naphthalene	14.46	128	131741	19.908	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	64267	19.932	ug/l	95

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

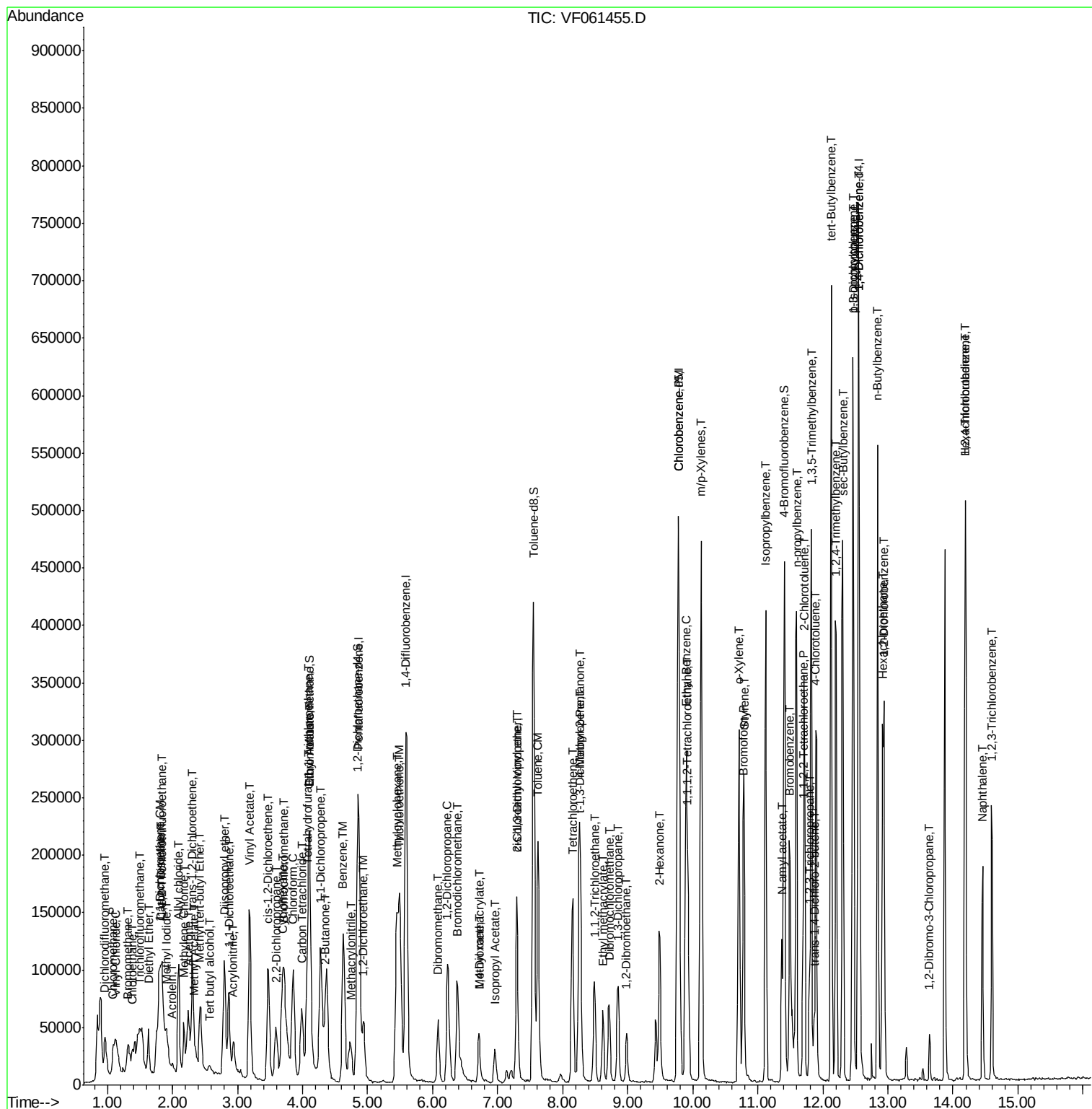
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011819\
Data File : VF061455.D
Acq On : 18 Jan 2019 13:11
Operator : VA/AP
Sample : VF0118SBSD01
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

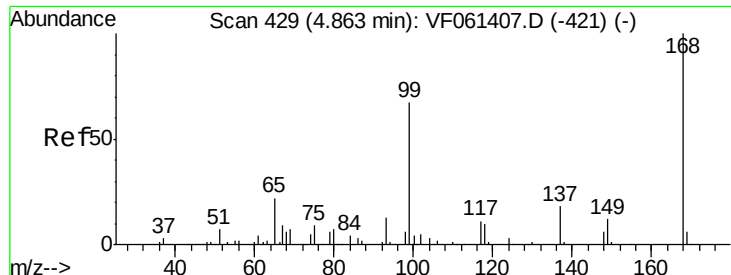
Instrument :
MSVOA_F
Client Sample Id :
VF0118SBSD01

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM

Quant Time: Jan 19 04:22:38 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. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBSD01

Tot Ion:168 Resp: 186916

Ion Ratio Lower Upper

168 100

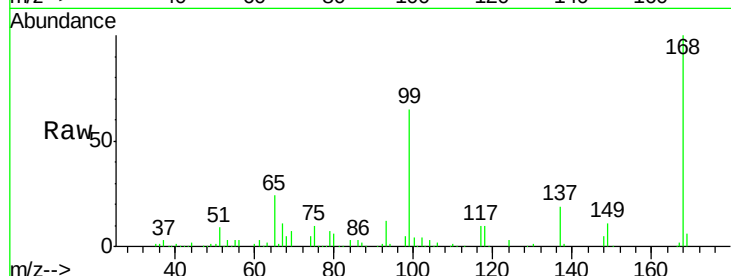
99 65.4 53.5 80.3

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

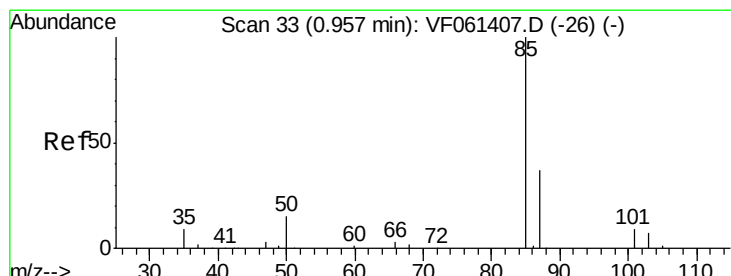
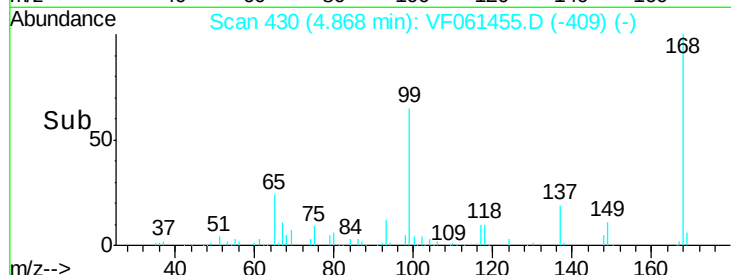
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 18.693 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061455.D

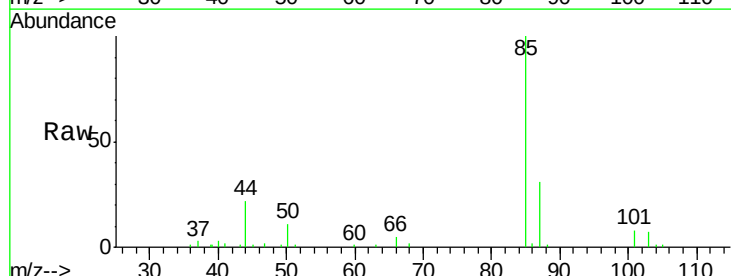
Acq: 18 Jan 2019 13:11

Tgt Ion: 85 Resp: 68651

Ion Ratio Lower Upper

85 100

87 31.2 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

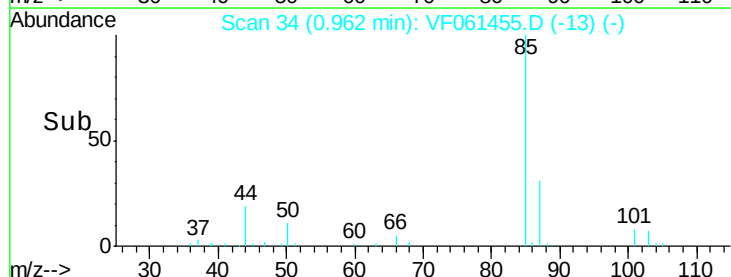
15000

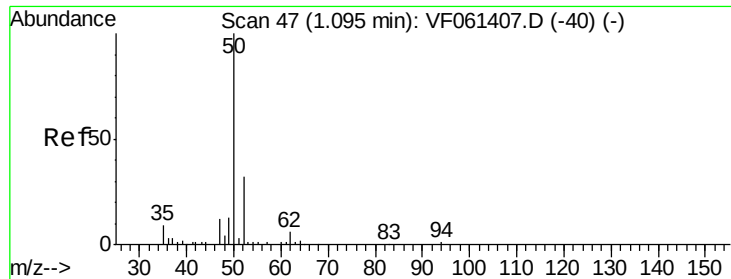
10000

5000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 21.204 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 50 Resp: 57100

Ion Ratio Lower Upper

50 100

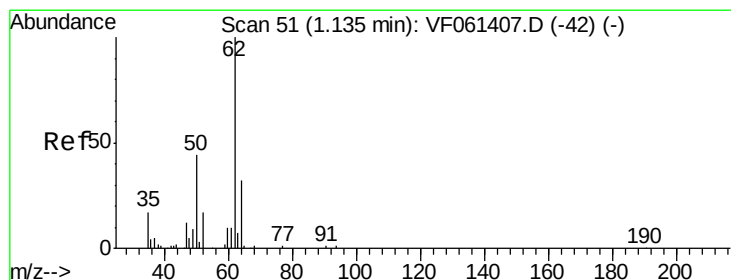
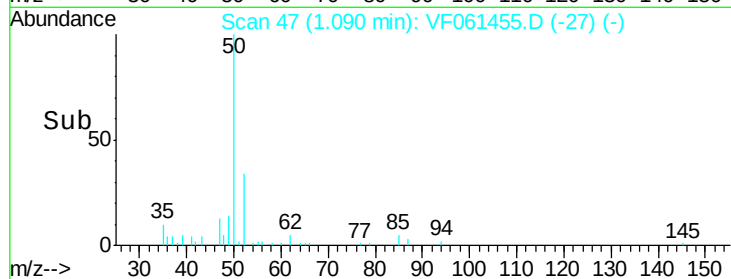
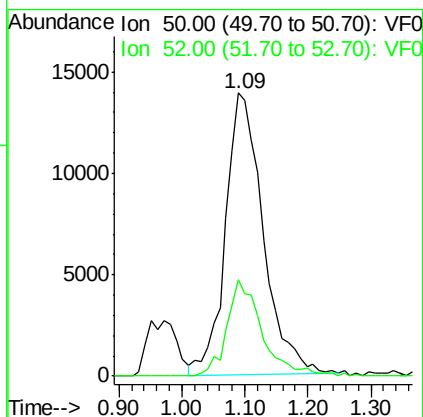
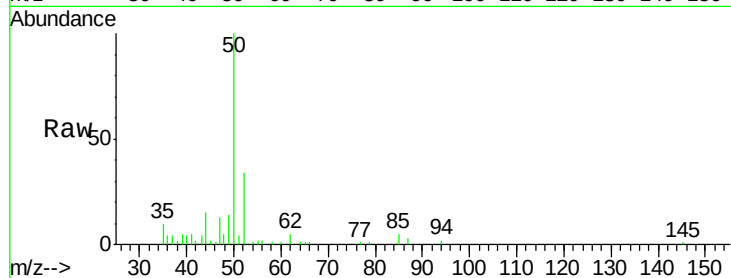
52 34.2 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#4

Vinyl Chloride

Concen: 21.029 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061455.D

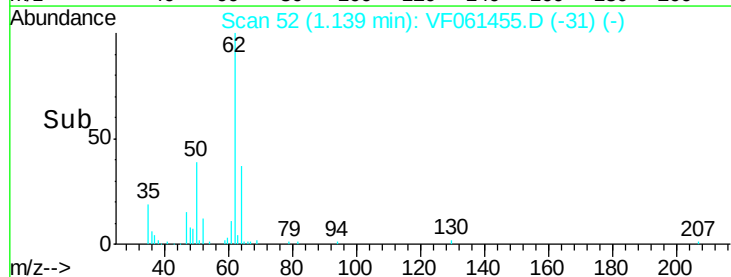
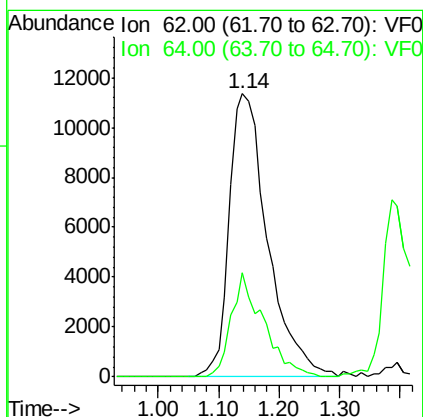
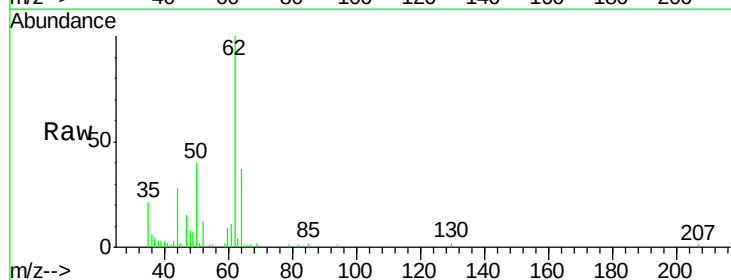
Acq: 18 Jan 2019 13:11

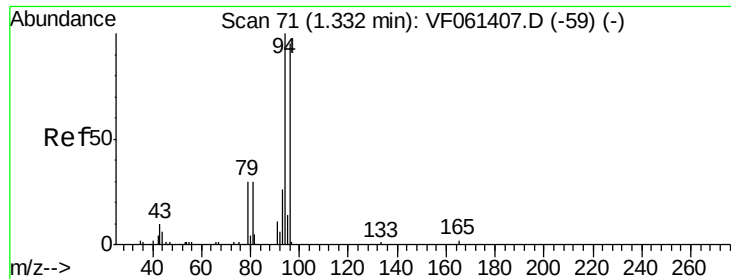
Tgt Ion: 62 Resp: 50374

Ion Ratio Lower Upper

62 100

64 36.7 25.6 38.4





#5

Bromomethane

Concen: 20.648 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 94 Resp: 32253

Ion Ratio Lower Upper

94 100

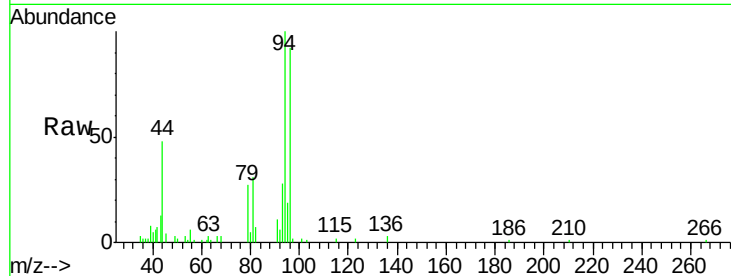
96 92.4 76.0 114.0

Manual Integrations

APPROVED

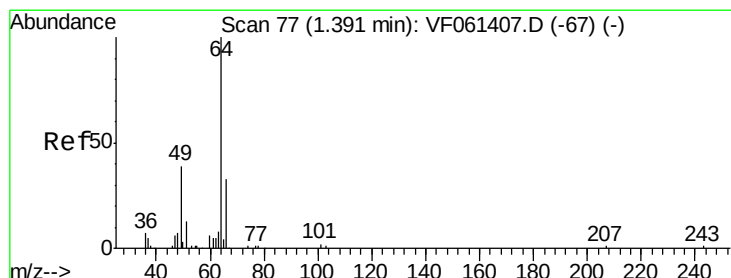
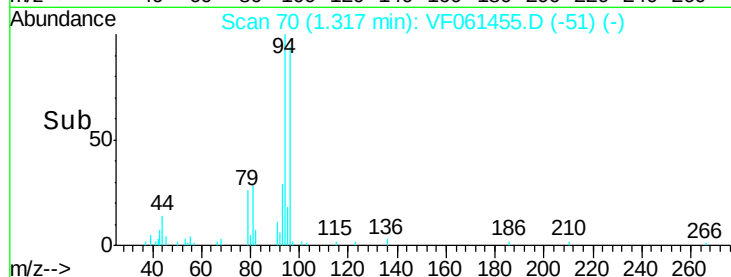
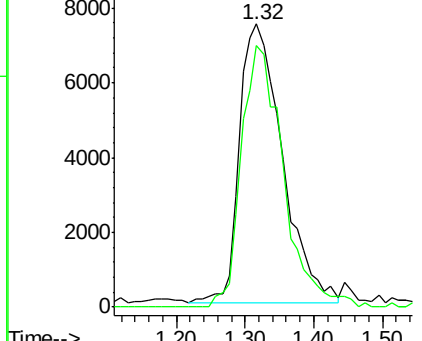
MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 21.592 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061455.D

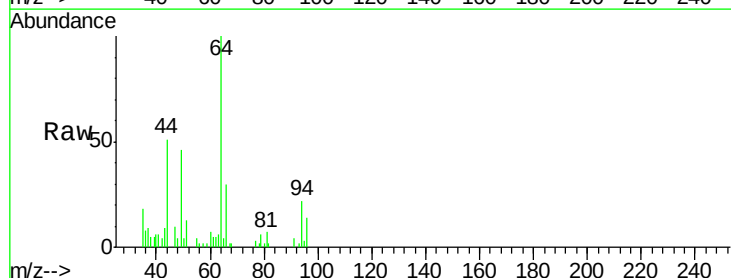
Acq: 18 Jan 2019 13:11

Tgt Ion: 64 Resp: 22919

Ion Ratio Lower Upper

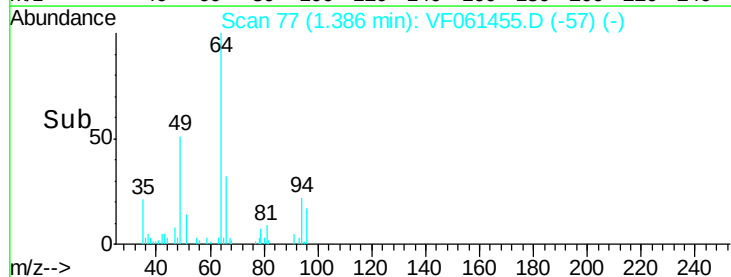
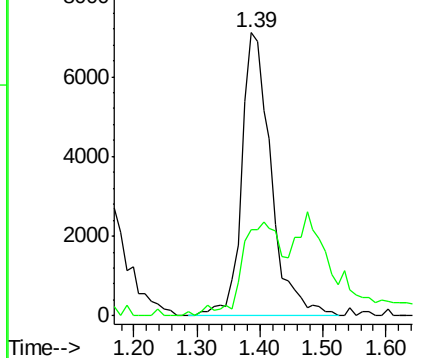
64 100

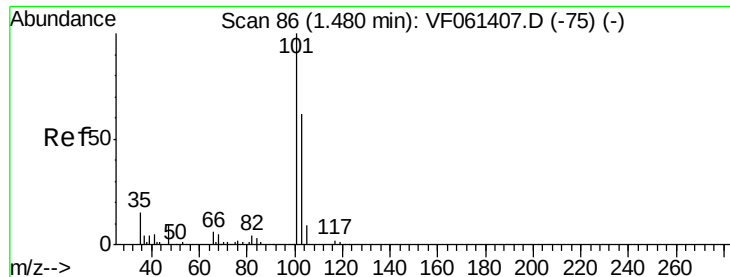
66 30.4 26.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

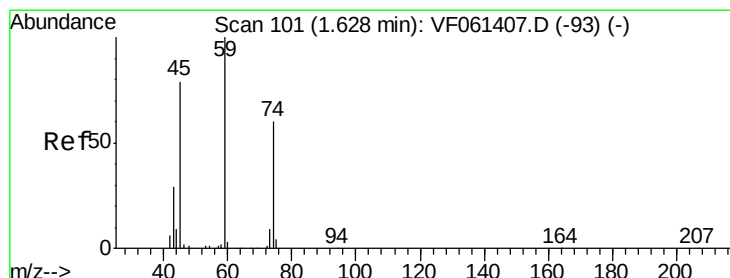
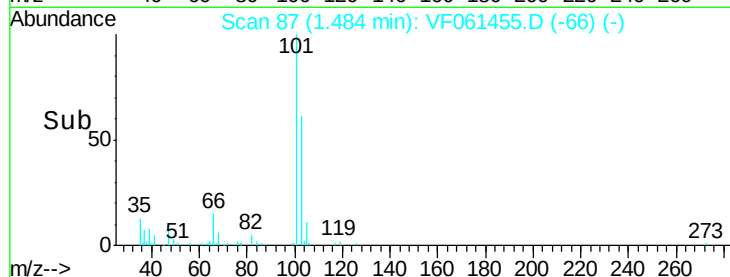
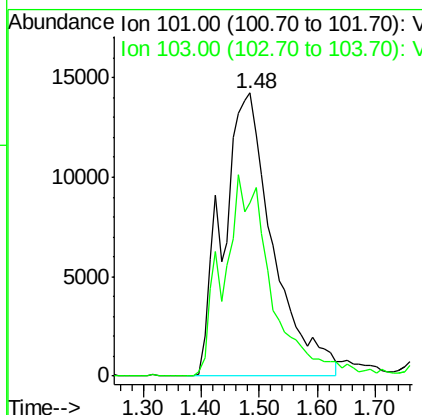
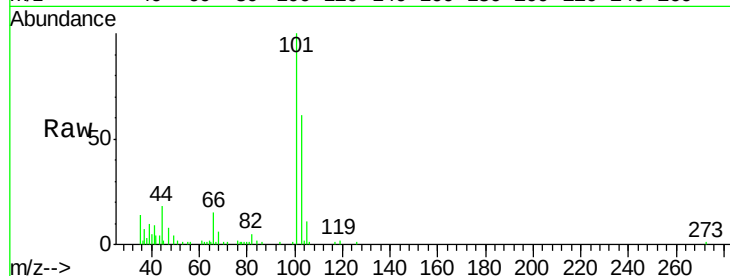
Trichlorofluoromethane
Concen: 18.376 ug/l m
RT: 1.48 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	49.7	74.5

Manual Integrations
APPROVED

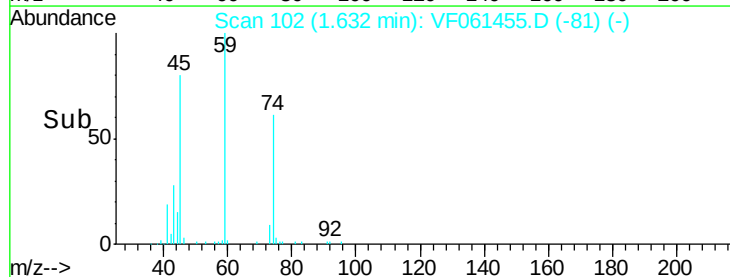
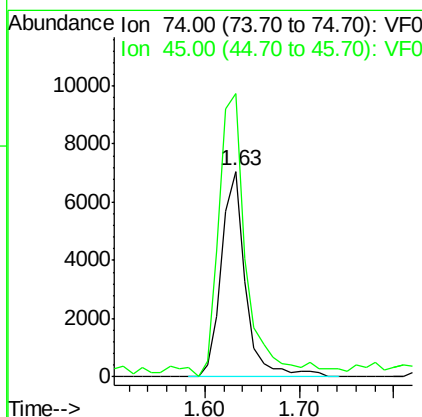
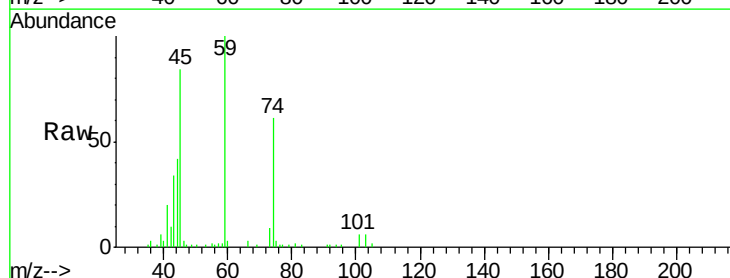
MMDadoda
1/21/2019 11:11:14 AM

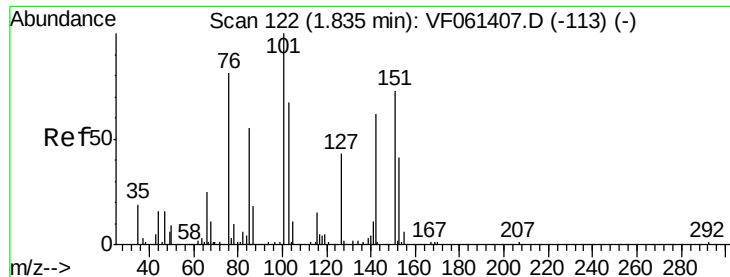


#8

Diethyl Ether
Concen: 21.000 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
74	100		
45	137.5	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.292 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

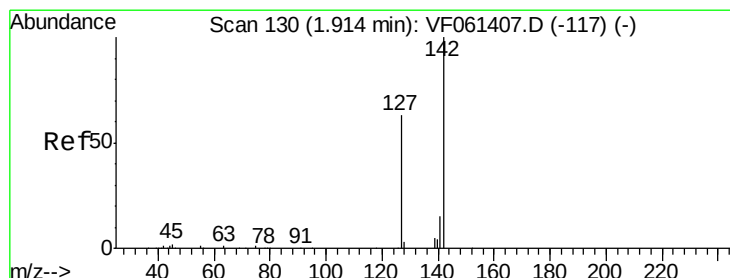
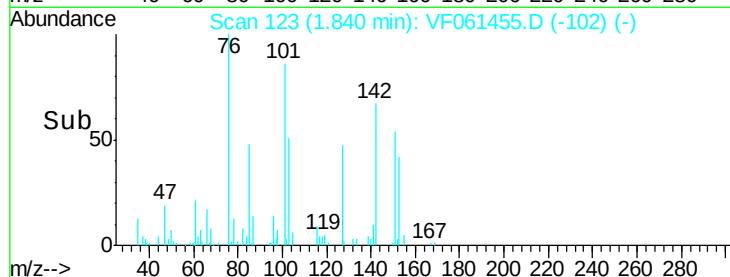
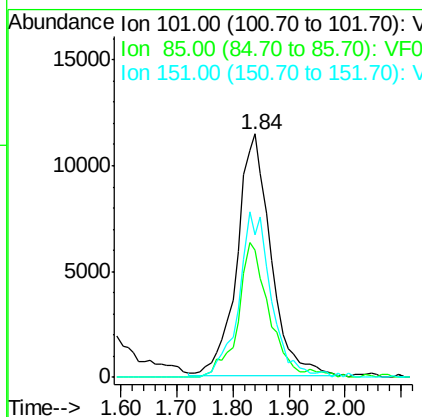
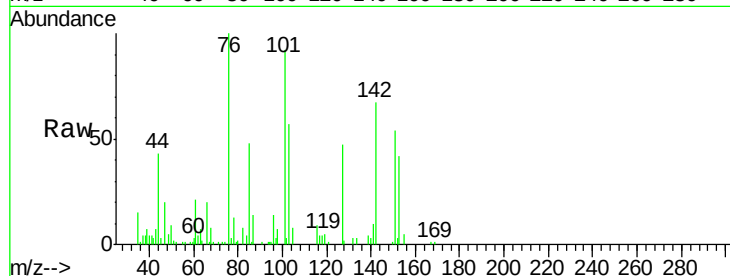
ClientSampleId :

VF0118SBS01

Tot Ion:	101	Resp:	47643
Ion Ratio	Lower	Upper	
101	100		
85	52.2	41.9	62.9
151	58.7	55.1	82.7

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#10

Methyl Iodide

Concen: 20.619 ug/l m

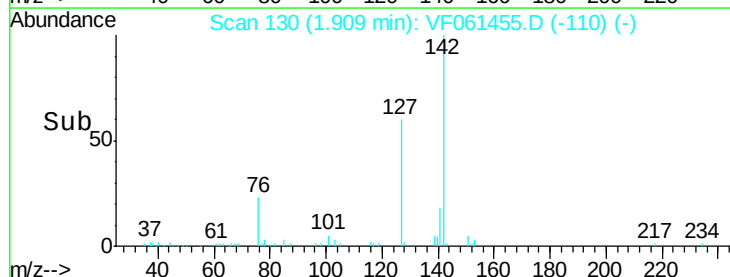
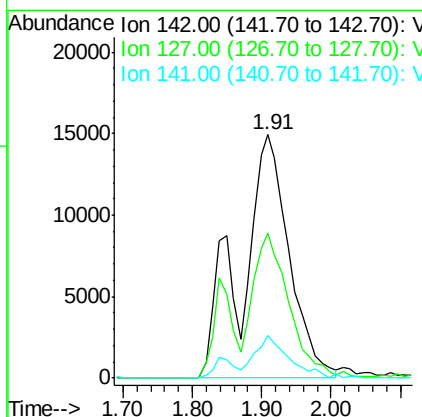
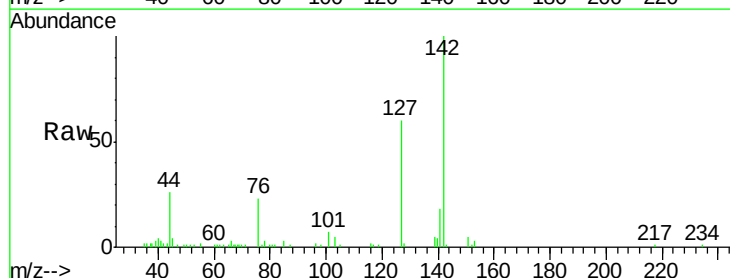
RT: 1.91 min Scan# 130

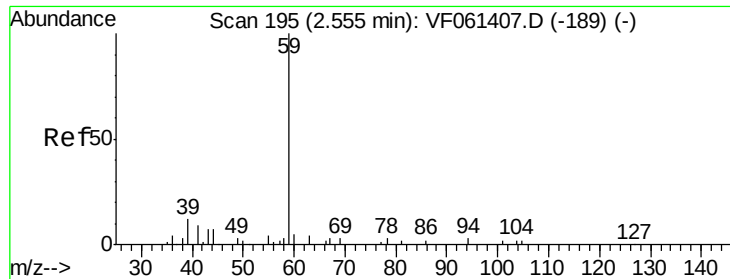
Delta R.T. -0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	142	Resp:	71527
Ion Ratio	Lower	Upper	
142	100		
127	59.7	50.7	76.1
141	17.6	11.8	17.6#





#11

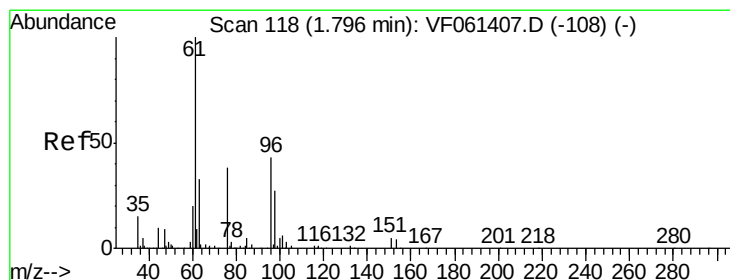
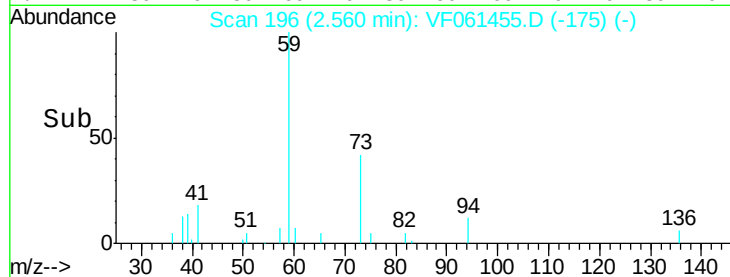
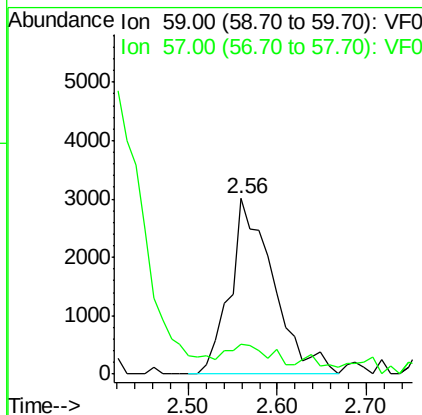
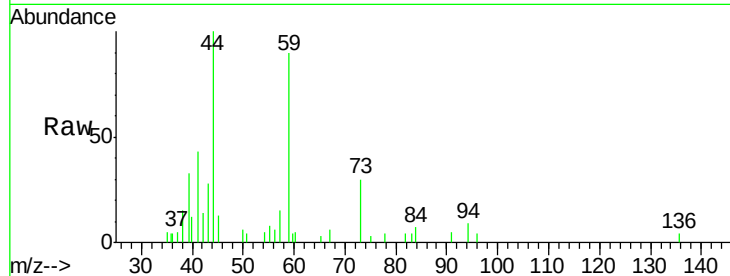
Tert butyl alcohol
Concen: 103.827 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	59	Resp	10142
Ion	Ratio	Lower	Upper
59	100		
57	16.8	11.9	17.9

Manual Integrations
APPROVED

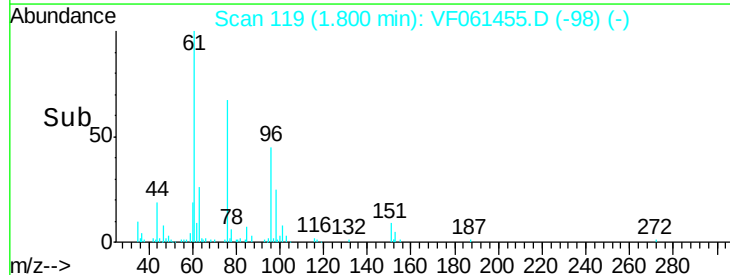
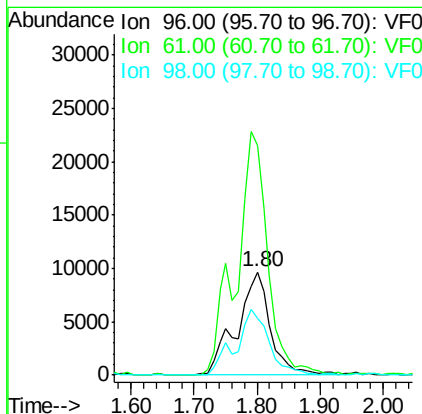
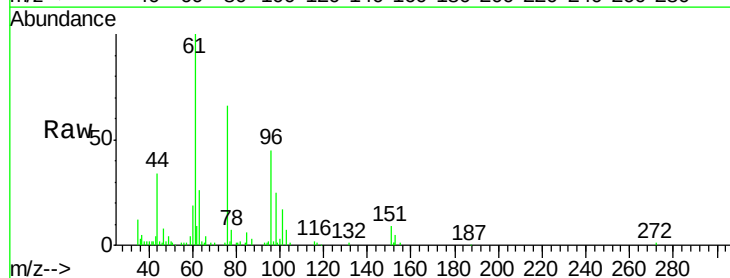
MMDadoda
1/21/2019 11:11:14 AM

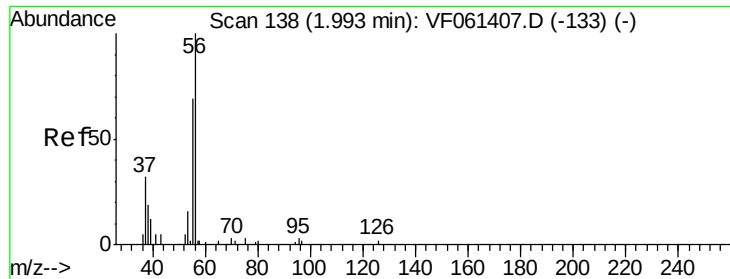


#12

1,1-Dichloroethene
Concen: 21.718 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	96	Resp	36105
Ion	Ratio	Lower	Upper
96	100		
61	222.7	186.9	280.3
98	55.4	53.0	79.4





#13

Acrolein

Concen: 97.101 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 56 Resp: 7615

Ion Ratio Lower Upper

56 100

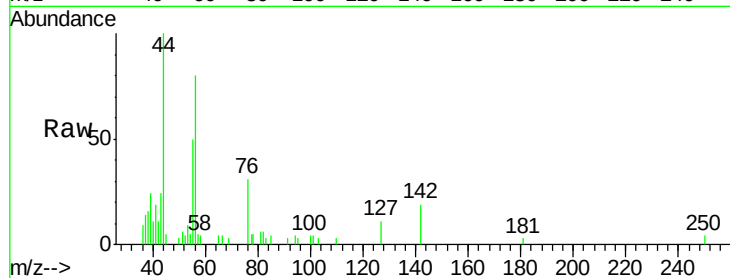
55 61.9 57.5 86.3

Manual Integrations

APPROVED

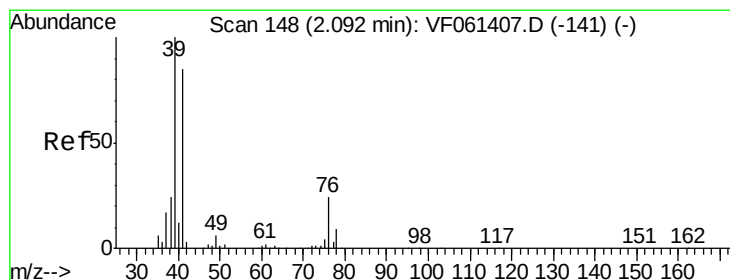
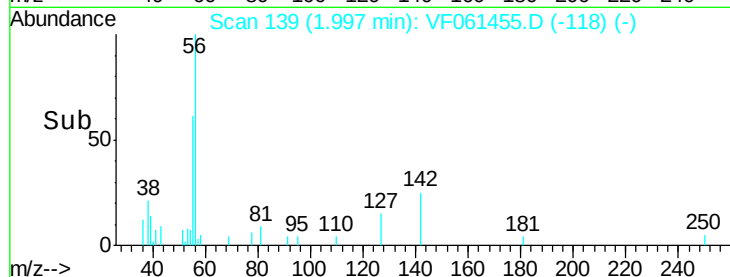
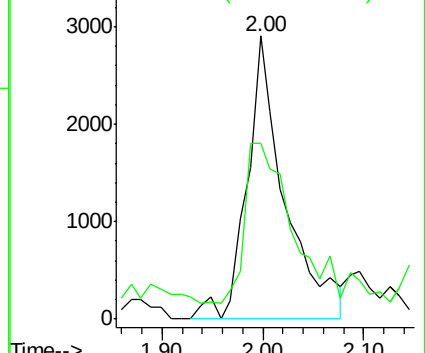
MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 31.411 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

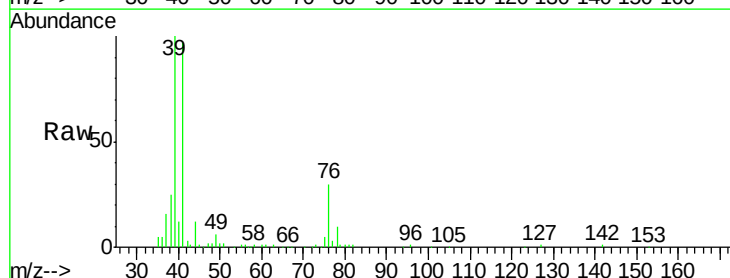
Tgt Ion: 41 Resp: 57324

Ion Ratio Lower Upper

41 100

39 103.2 94.6 141.8

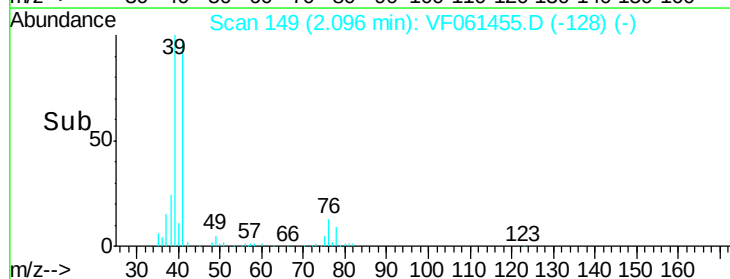
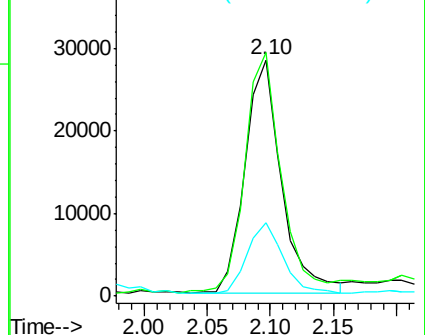
76 30.9 25.9 38.9

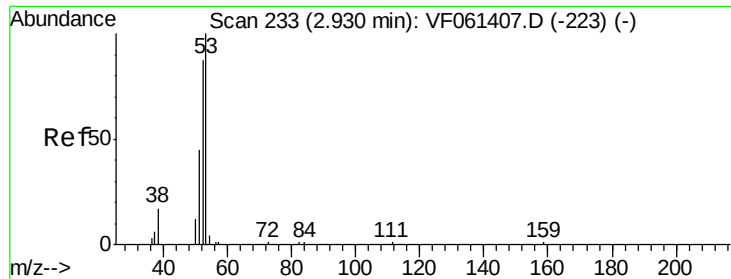


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 108.676 ug/l

RT: 2.93 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

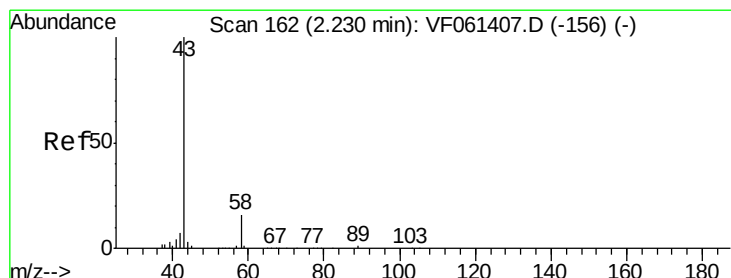
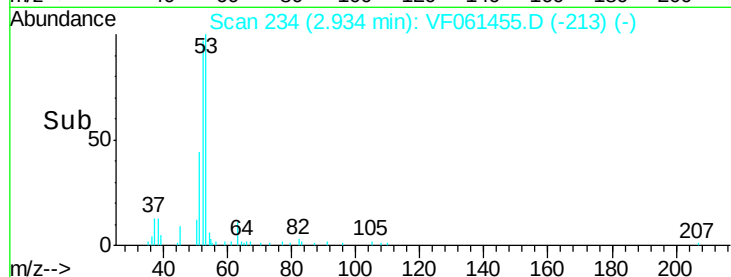
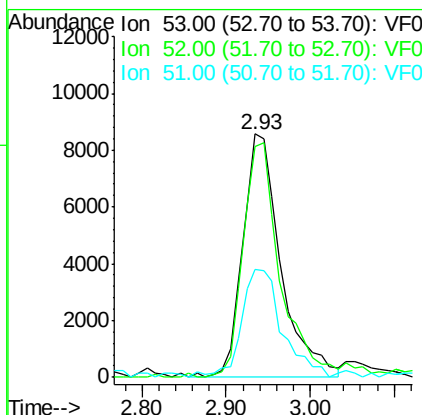
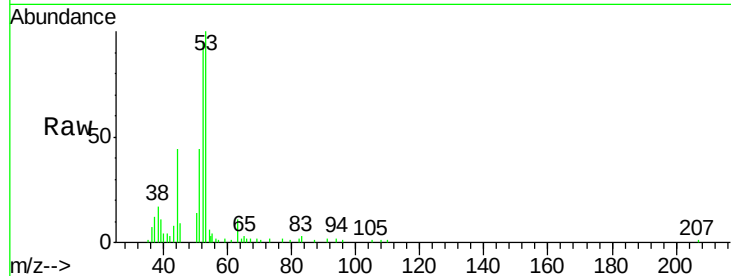
ClientSampleId :

VF0118SBS01

Tot Ion:	53	Resp:	27192
Ion	Ratio	Lower	Upper
53	100		
52	94.7	69.6	104.4
51	44.4	36.8	55.2

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#16

Acetone

Concen: 125.407 ug/l

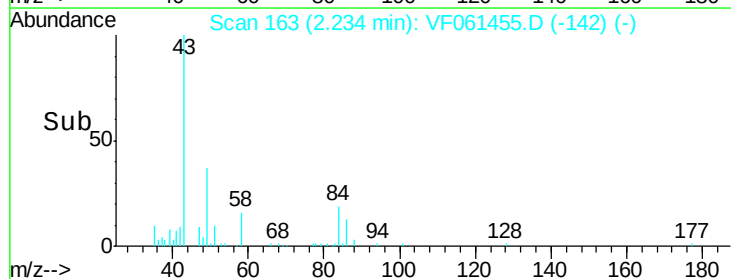
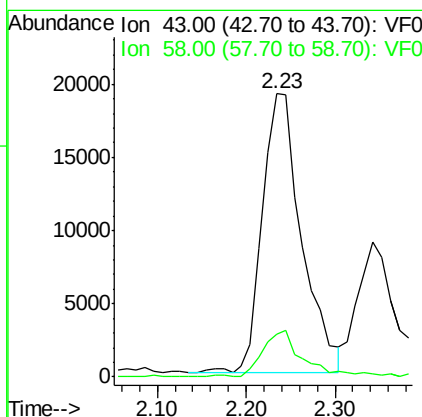
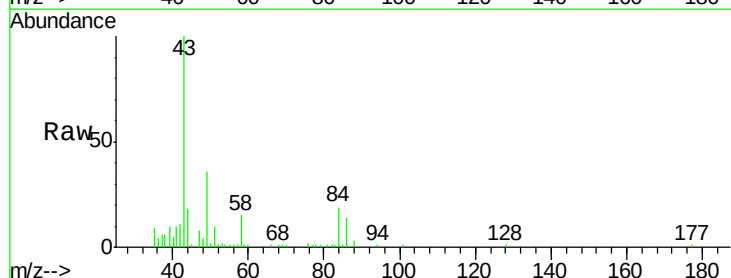
RT: 2.23 min Scan# 163

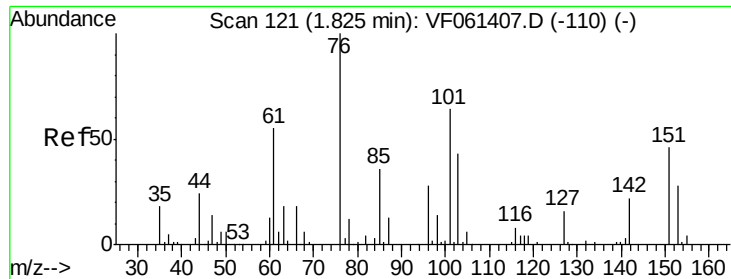
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	43	Resp:	58058
Ion	Ratio	Lower	Upper
43	100		
58	15.2	13.3	19.9





#17

Carbon Disulfide

Concen: 20.912 ug/l m

RT: 1.81 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tot Ion: 76 Resp: 108396

Ion Ratio Lower Upper

76 100

78 11.1 9.6 14.4

Instrument :

MSVOA_F

ClientSampleId :

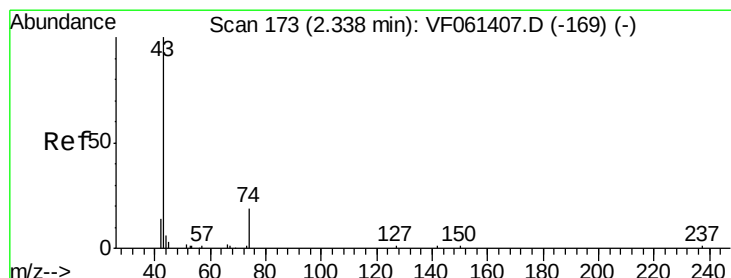
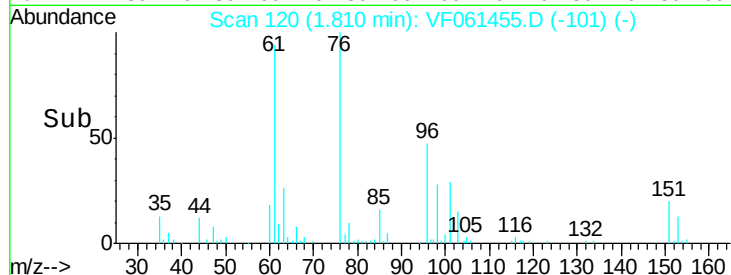
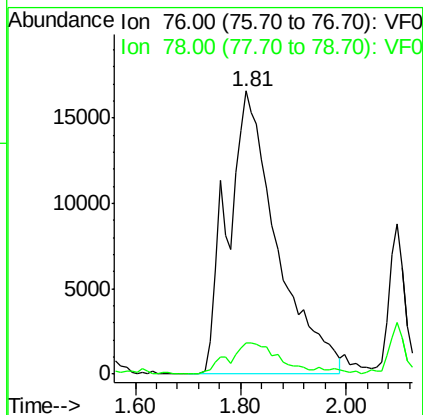
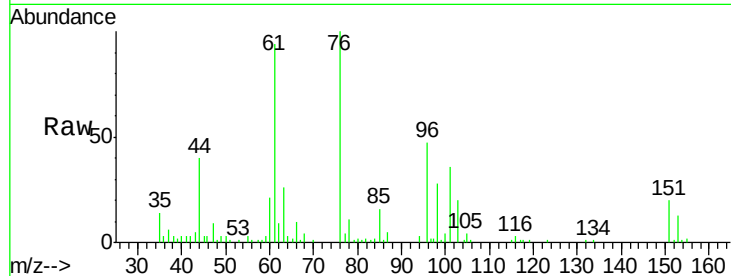
VF0118SBS01

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#18

Methyl Acetate

Concen: 23.581 ug/l

RT: 2.34 min Scan# 174

Delta R.T. 0.00 min

Lab File: VF061455.D

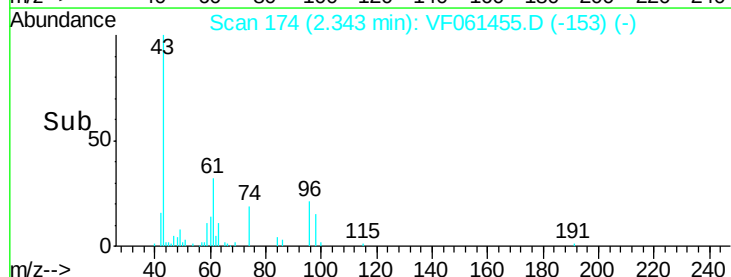
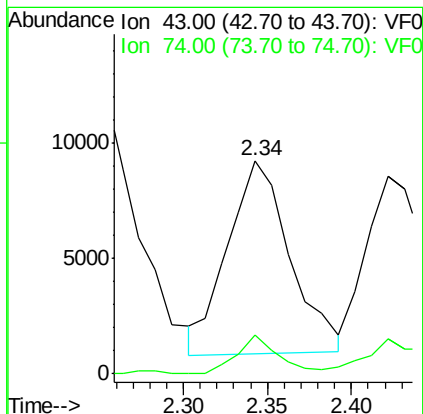
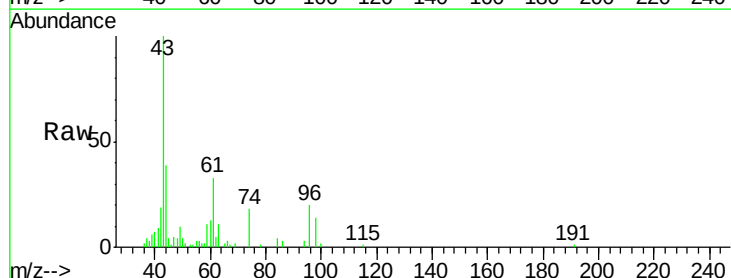
Acq: 18 Jan 2019 13:11

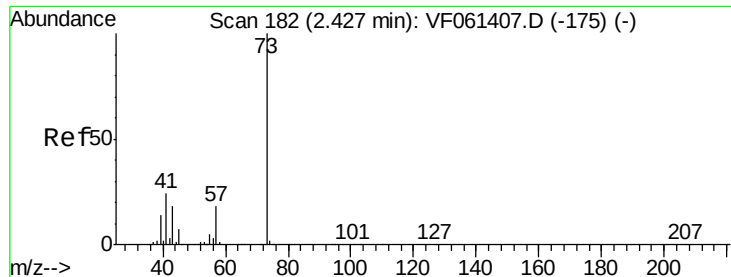
Tgt Ion: 43 Resp: 21650

Ion Ratio Lower Upper

43 100

74 18.0 13.4 20.0





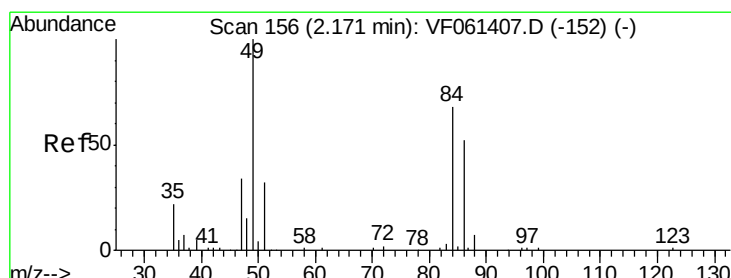
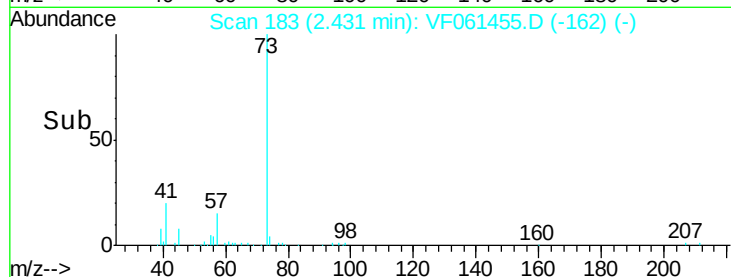
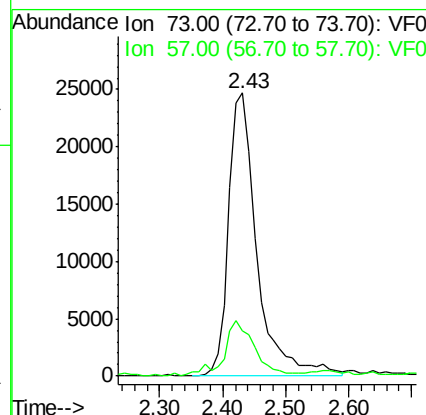
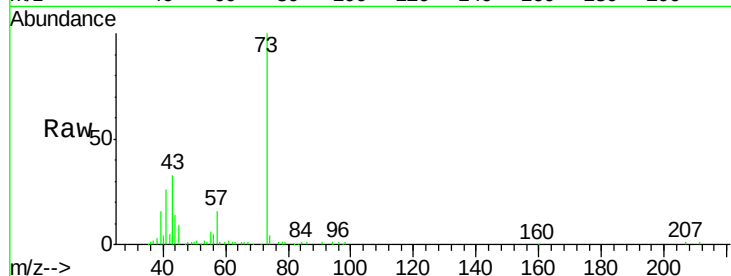
#19
Methyl tert-butyl Ether
Concen: 20.774 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion: 73 Resp: 77417
Ion Ratio Lower Upper
73 100
57 16.2 14.8 22.2

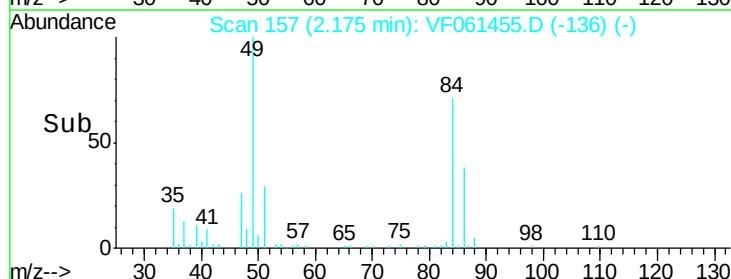
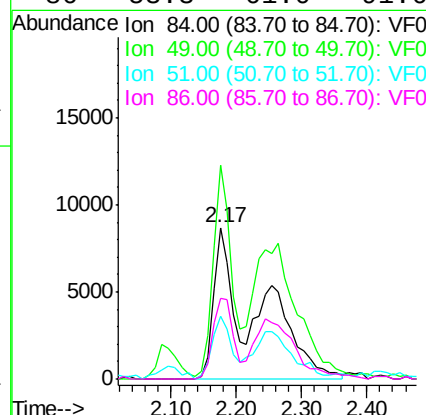
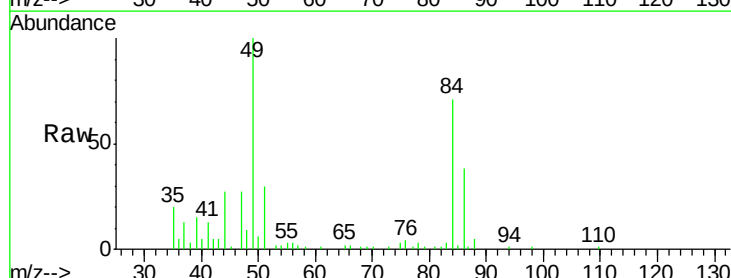
Manual Integrations
APPROVED

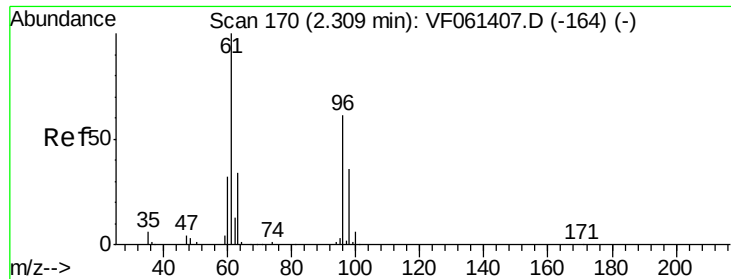
MMDadoda
1/21/2019 11:11:14 AM



#20
Methylene Chloride
Concen: 23.669 ug/l m
RT: 2.17 min Scan# 157
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion: 84 Resp: 38651
Ion Ratio Lower Upper
84 100
49 140.8 120.0 180.0
51 41.8 38.6 58.0
86 53.3 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 21.090 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

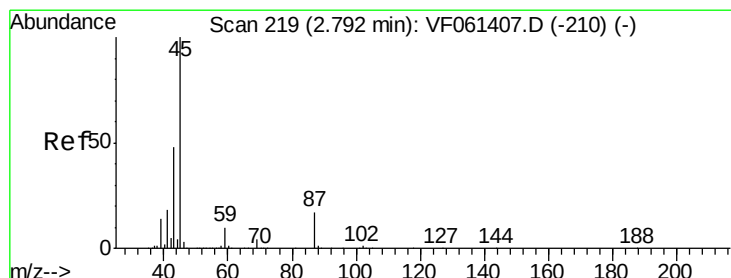
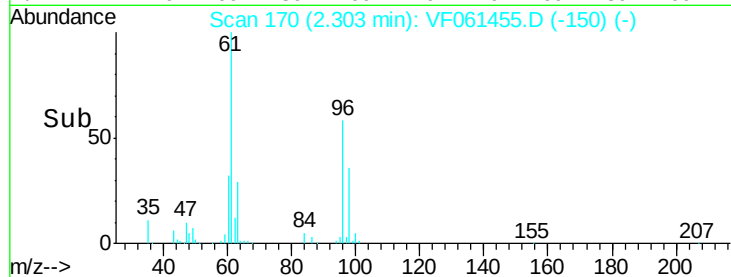
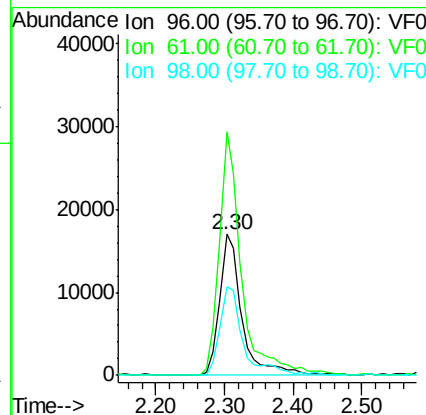
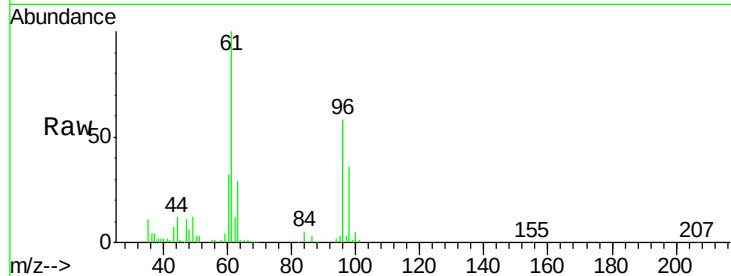
ClientSampleId :

VF0118SBS01

Tot Ion:	96	Resp:	38574
Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.8	197.8
98	62.6	47.4	71.0

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#22

Diisopropyl ether

Concen: 21.231 ug/l

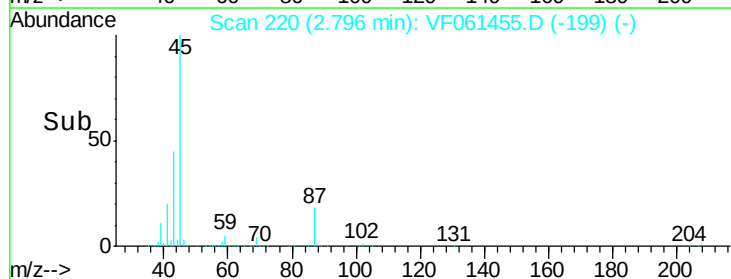
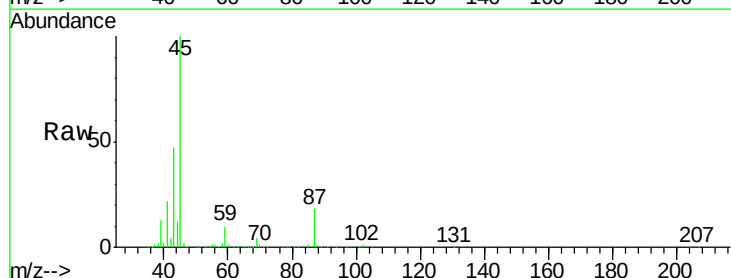
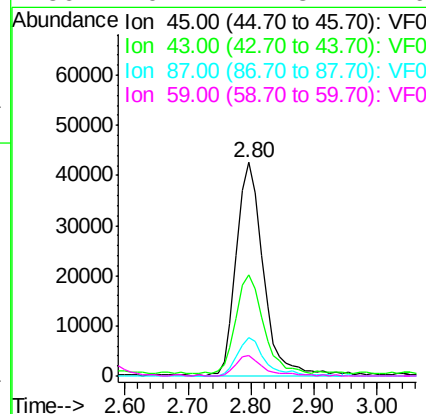
RT: 2.80 min Scan# 220

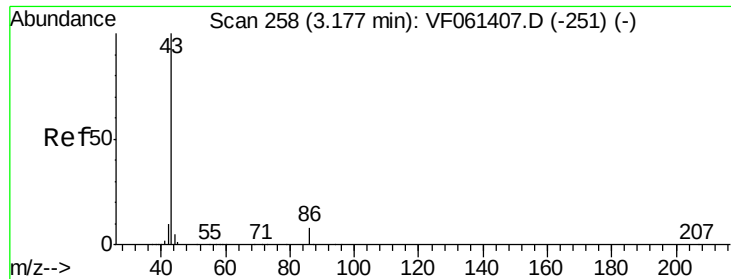
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	45	Resp:	125603
Ion	Ratio	Lower	Upper
45	100		
43	47.2	39.0	58.6
87	18.1	13.9	20.9
59	9.7	7.8	11.6





#23

Vinyl Acetate

Concen: 123.975 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 43 Resp: 318359

Ion Ratio Lower Upper

43 100

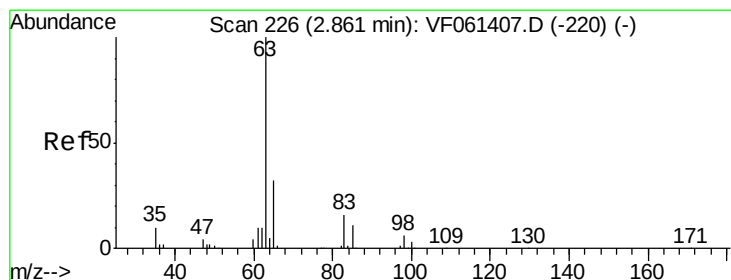
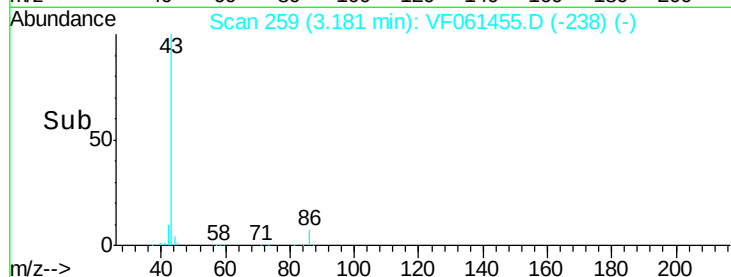
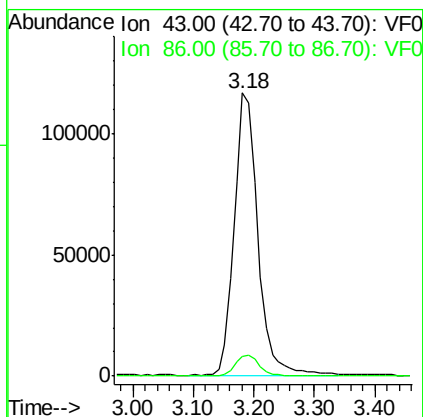
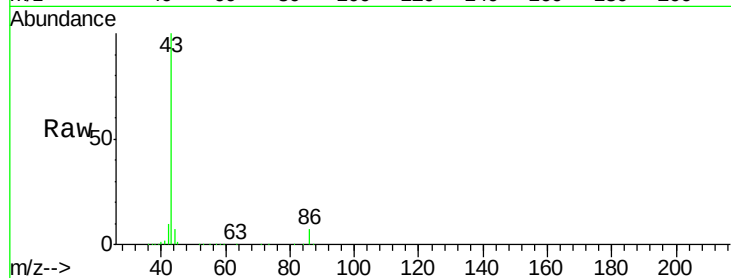
86 7.1 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#24

1,1-Dichloroethane

Concen: 20.529 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

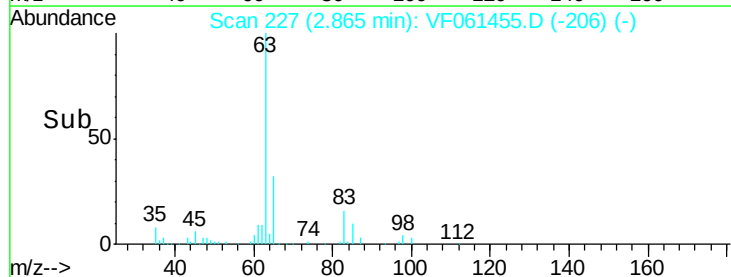
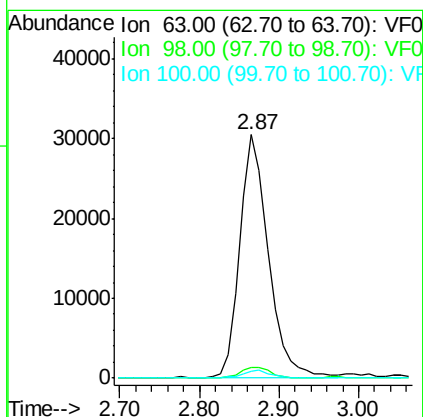
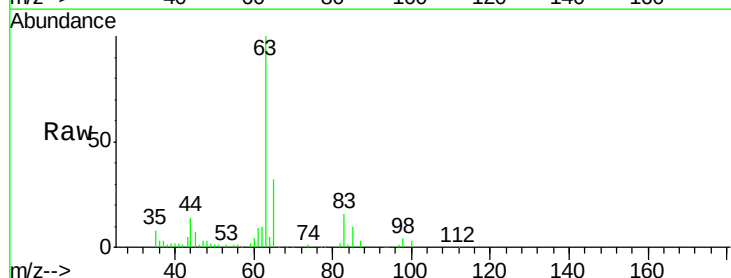
Tgt Ion: 63 Resp: 76226

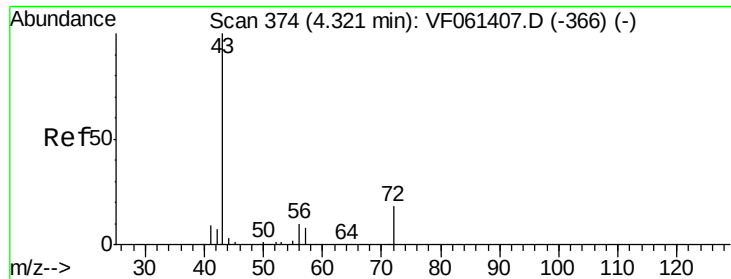
Ion Ratio Lower Upper

63 100

98 4.3 2.9 8.8

100 2.8 1.6 4.8





#25

2-Butanone

Concen: 120.911 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 43 Resp: 93086

Ion Ratio Lower Upper

43 100

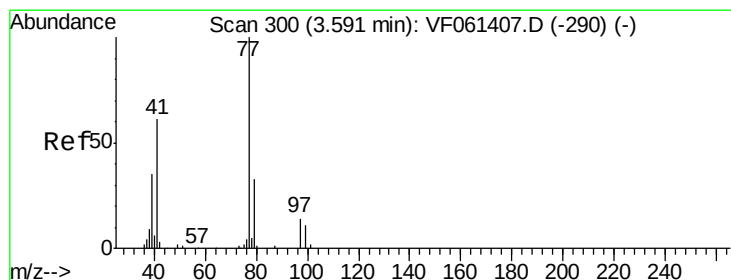
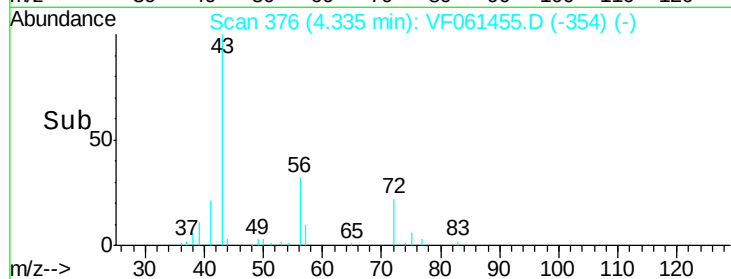
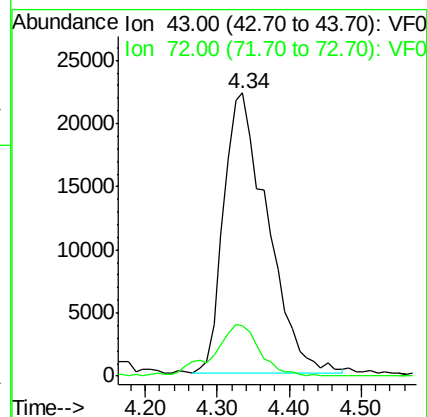
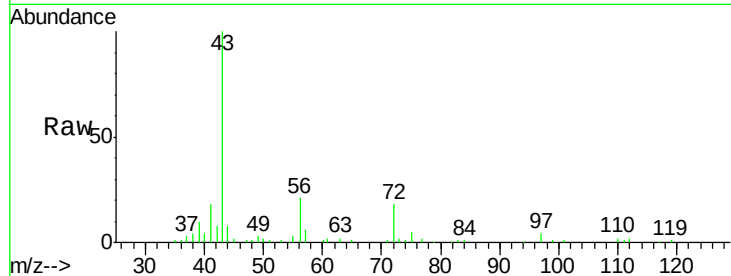
72 17.8 15.8 23.6

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#26

2,2-Dichloropropane

Concen: 20.108 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061455.D

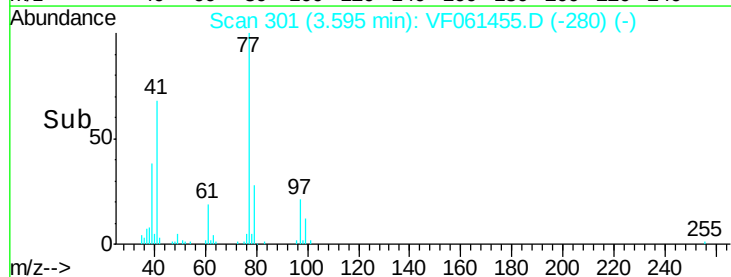
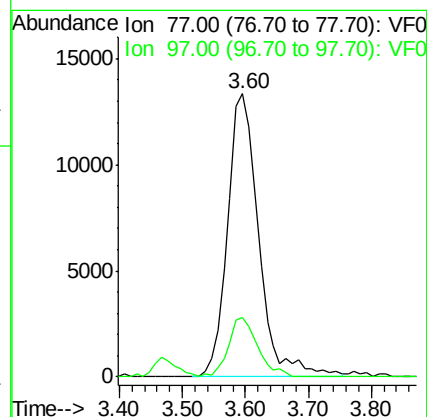
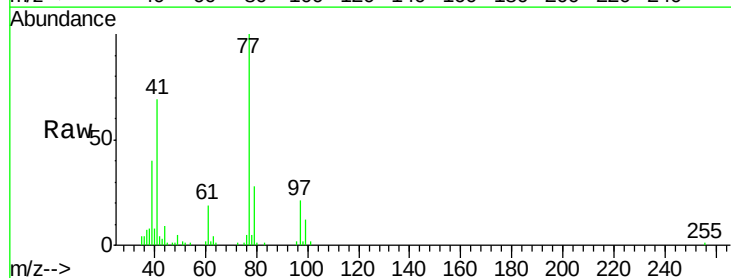
Acq: 18 Jan 2019 13:11

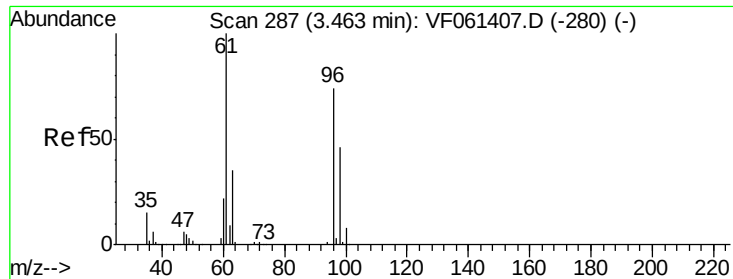
Tgt Ion: 77 Resp: 45871

Ion Ratio Lower Upper

77 100

97 20.9 8.5 25.5





#27

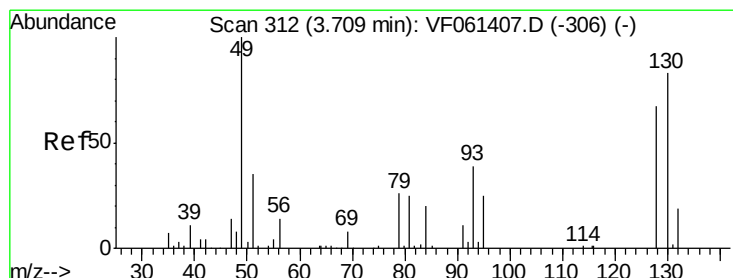
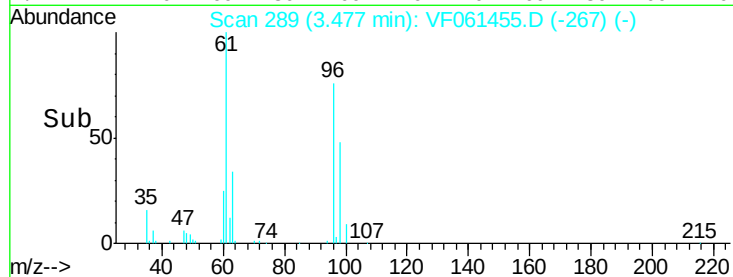
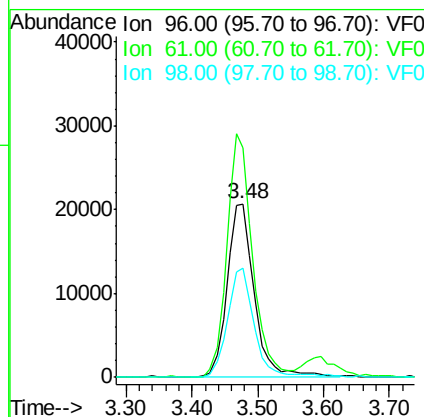
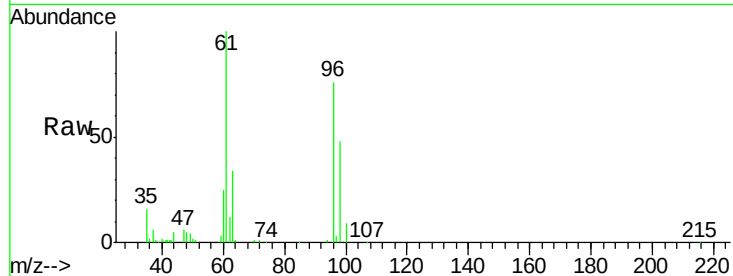
cis-1,2-Dichloroethene
Concen: 22.257 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.01 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		60094		
61	132.2	0.0	270.2		
98	63.4	0.0	124.0		

Manual Integrations
APPROVED

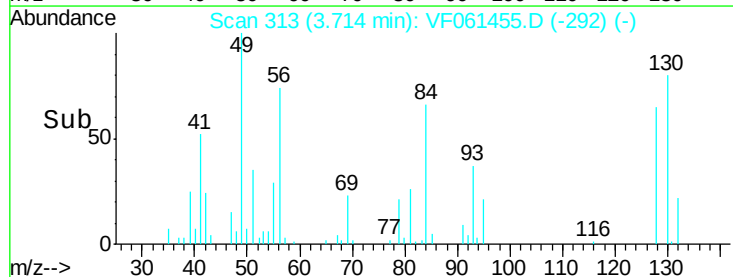
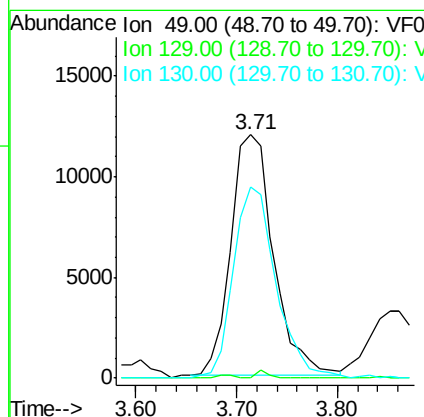
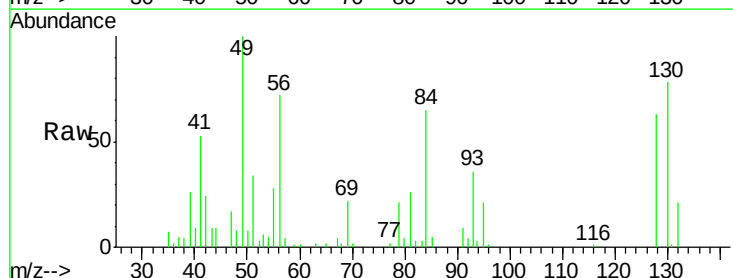
MMDadoda
1/21/2019 11:11:14 AM

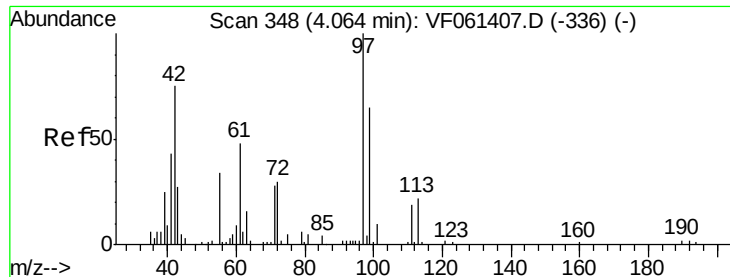


#28

Bromochloromethane
Concen: 21.303 ug/l
RT: 3.71 min Scan# 313
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		35556		
129	0.0	0.0	0.0		
130	78.3	65.4	98.2		





#29

Tetrahydrofuran

Concen: 114.168 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

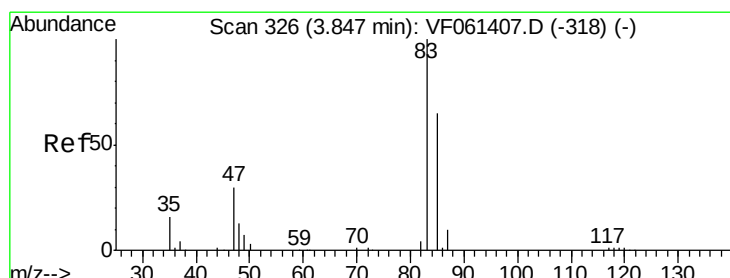
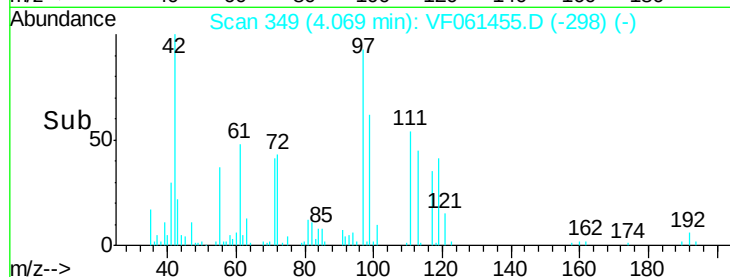
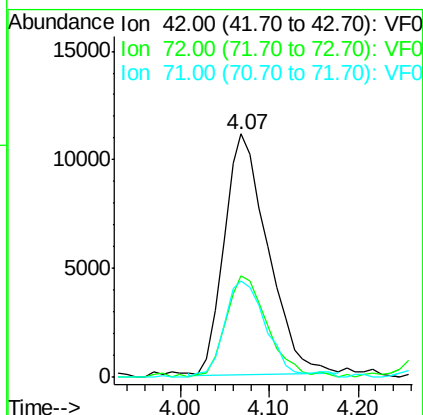
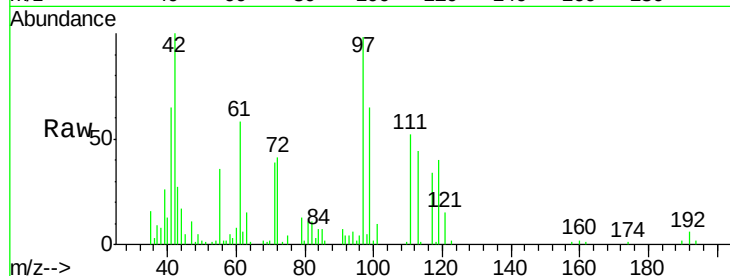
ClientSampleId :

VF0118SBS01

Tot Ion:	42	Resp:	37847
Ion	Ratio	Lower	Upper
42	100		
72	40.5	28.9	43.3
71	37.9	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#30

Chloroform

Concen: 21.665 ug/l

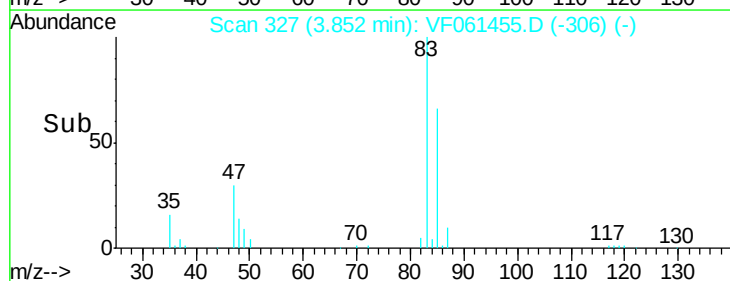
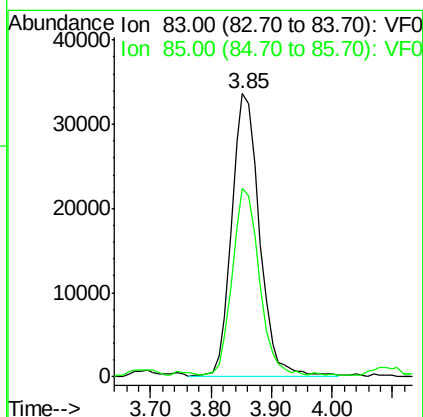
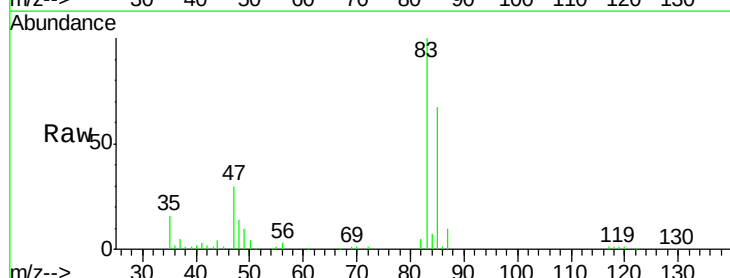
RT: 3.85 min Scan# 327

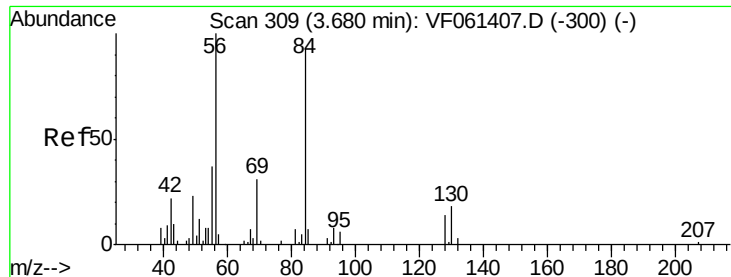
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	83	Resp:	108563
Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.7	79.1





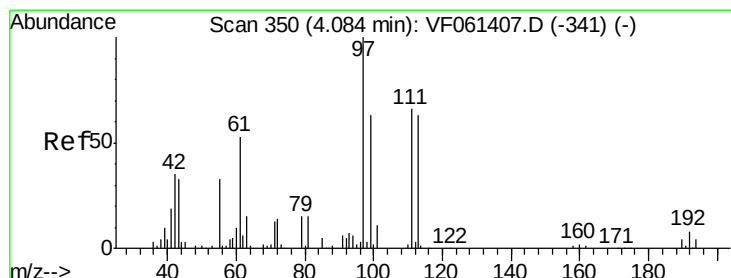
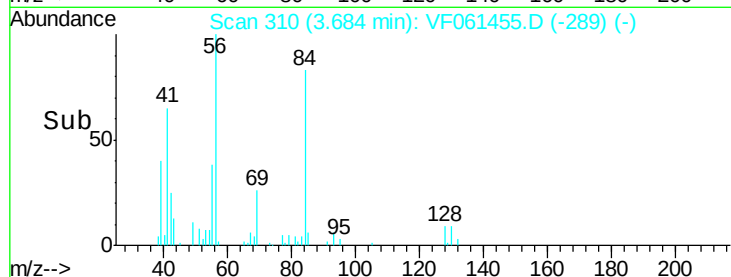
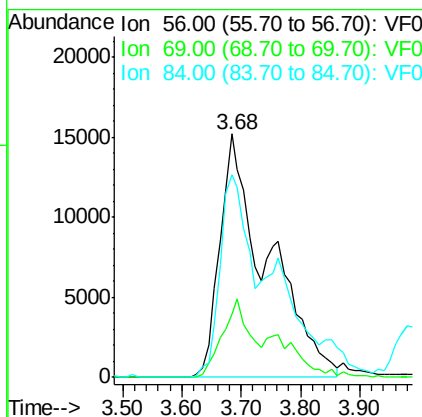
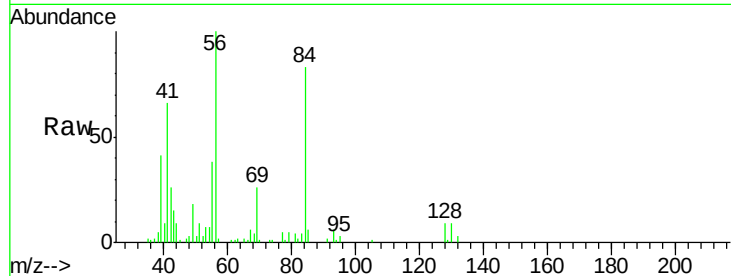
#31
Cyclohexane
Concen: 22.848 ug/l m
RT: 3.68 min Scan# 310
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	26.0	24.6	36.8
84	83.1	74.2	111.2

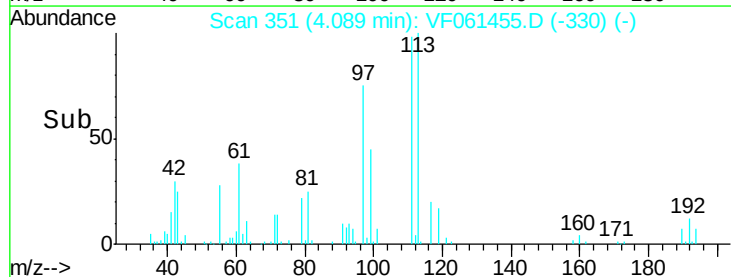
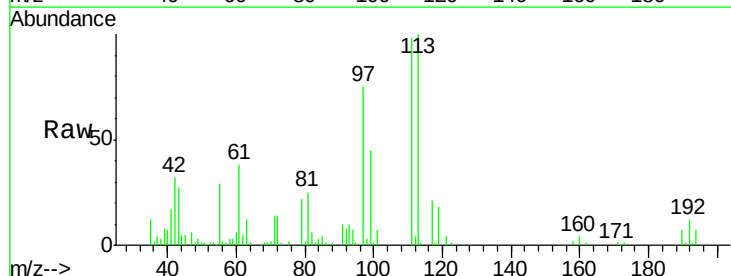
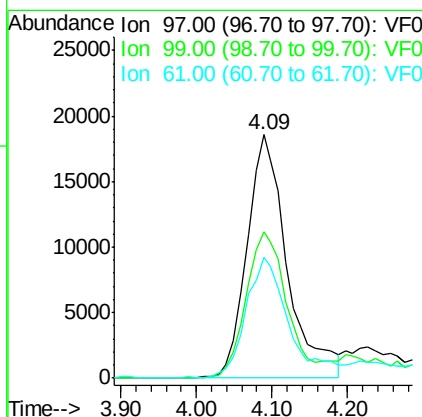
Manual Integrations
APPROVED

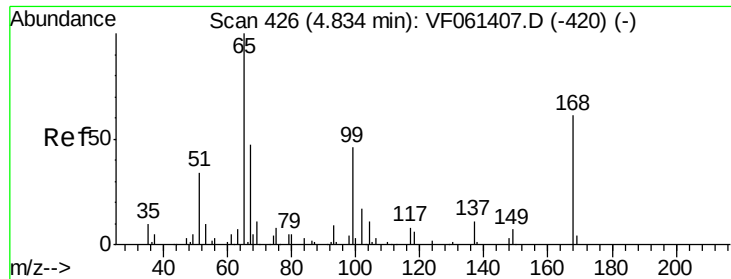
MMDadoda
1/21/2019 11:11:14 AM



#32
1,1,1-Trichloroethane
Concen: 18.713 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.0	50.1	75.1
61	49.7	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 47.140 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 65 Resp: 108785

Ion Ratio Lower Upper

65 100

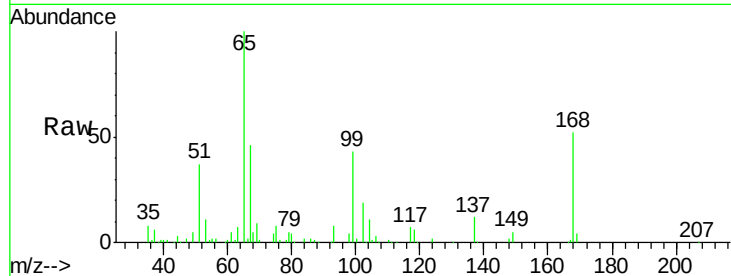
67 45.5 0.0 99.8

Manual Integrations

APPROVED

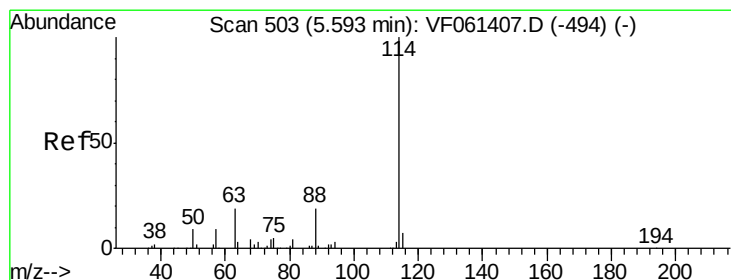
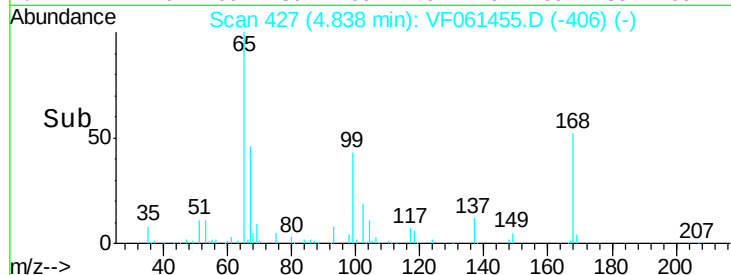
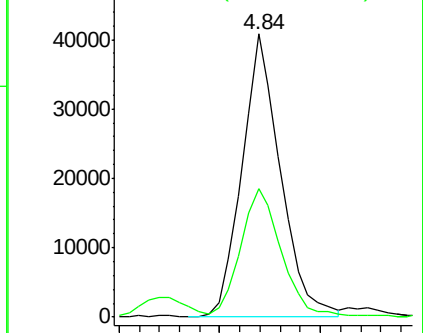
MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

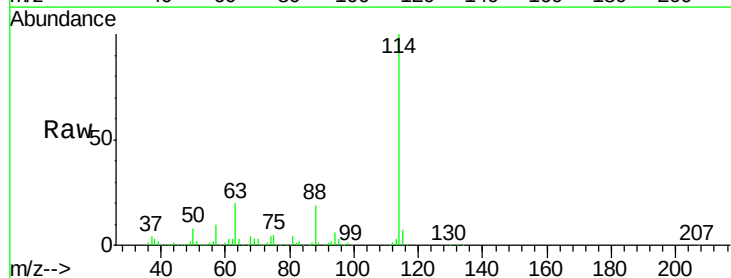
Tgt Ion: 114 Resp: 349017

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

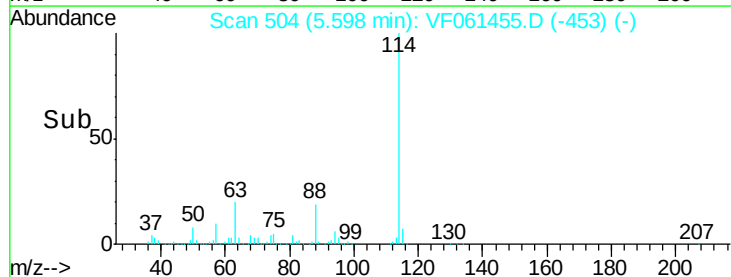
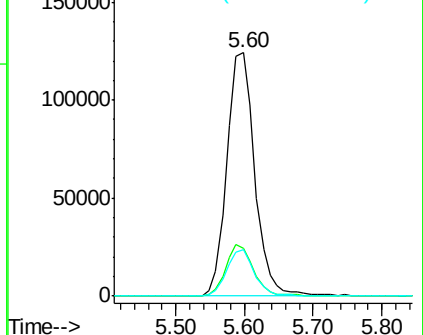
88 18.9 0.0 37.4

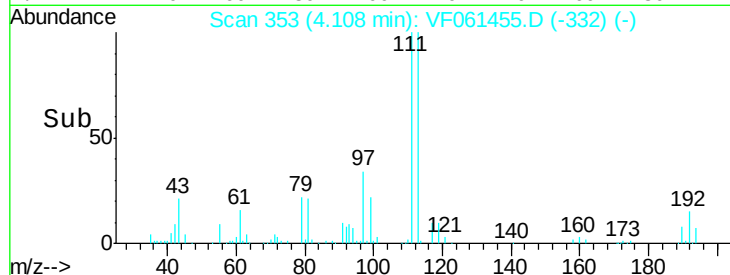
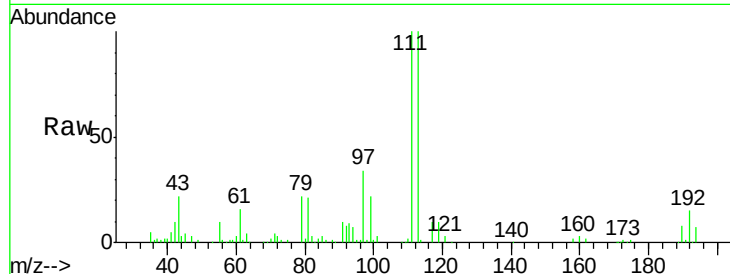
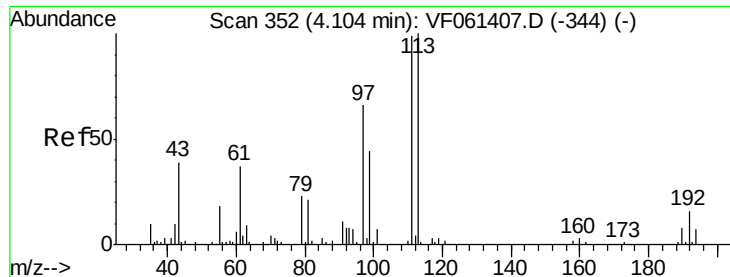


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





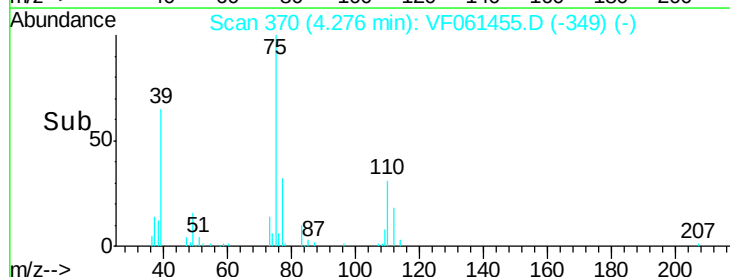
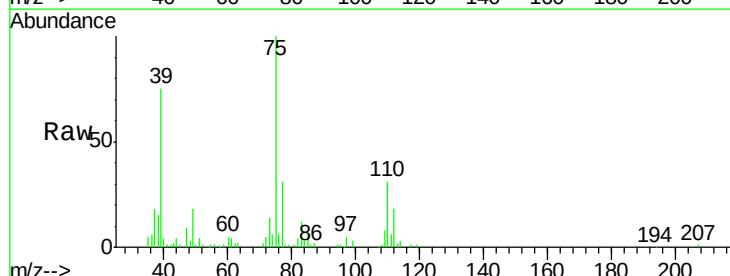
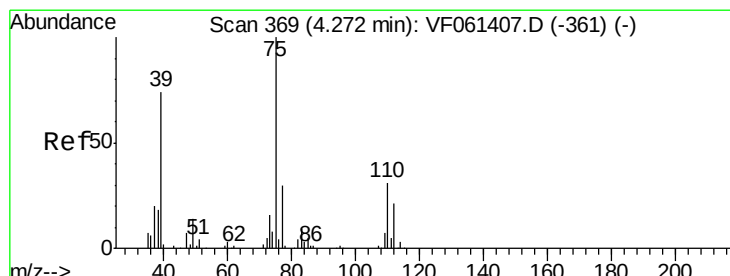
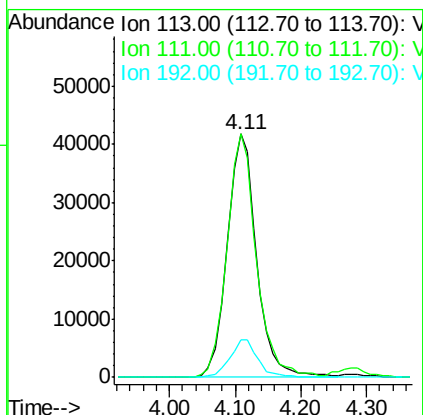
#35
Dibromofluoromethane
Concen: 47.501 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	100.1	79.4	119.0	
192	15.2	12.4	18.6	

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

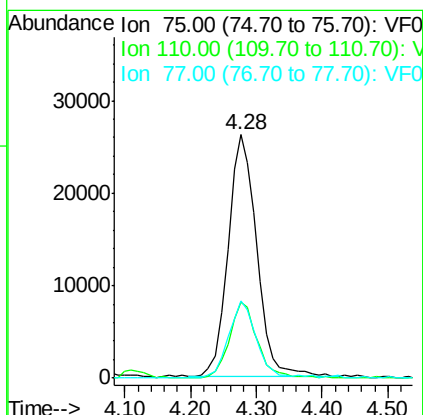
Manual Integrations
APPROVED

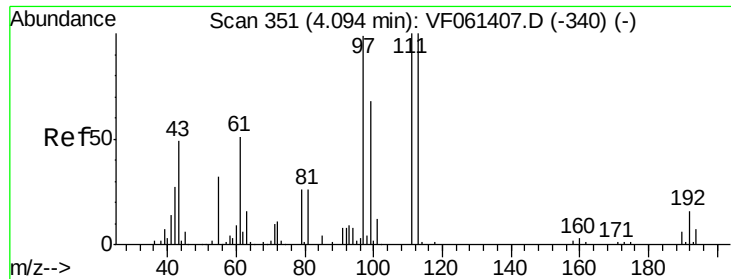
MMDadoda
1/21/2019 11:11:14 AM



#36
1,1-Dichloropropene
Concen: 19.836 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	31.4	15.8	47.3	
77	31.5	24.0	36.0	





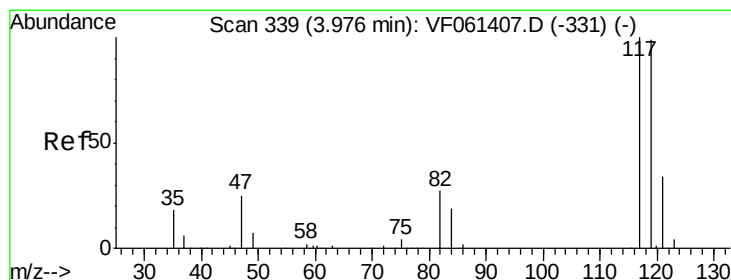
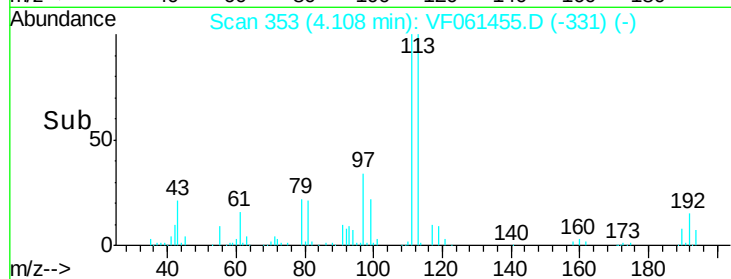
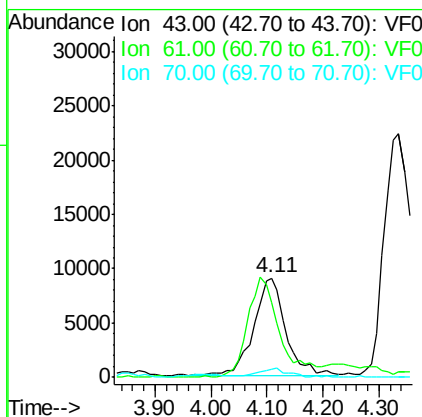
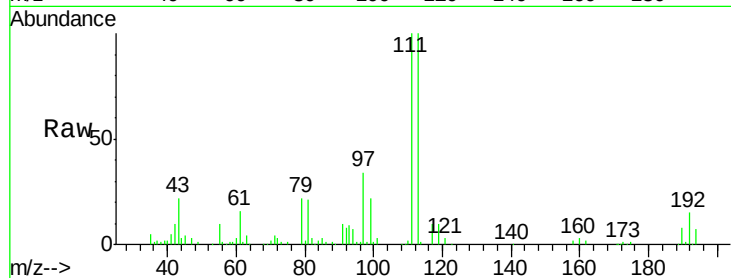
#37
Ethyl Acetate
Concen: 22.416 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	75.6	81.7	122.5#
70	8.5	6.2	9.2

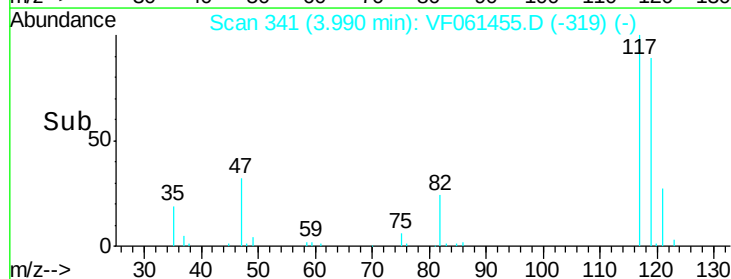
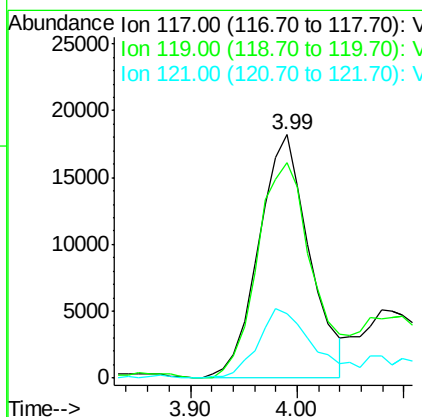
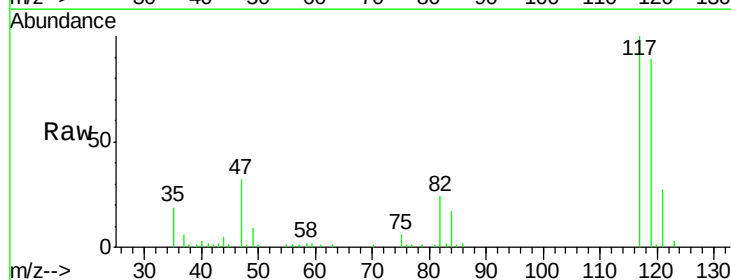
Manual Integrations
APPROVED

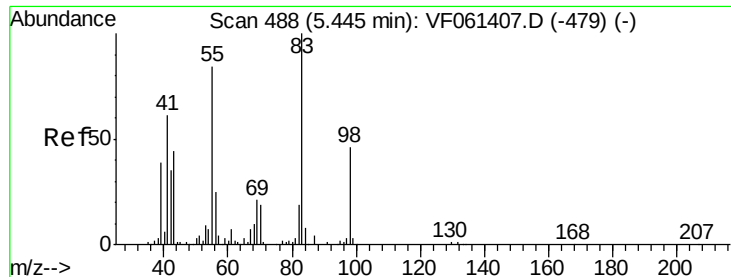
MMDadoda
1/21/2019 11:11:14 AM



#38
Carbon Tetrachloride
Concen: 16.935 ug/l m
RT: 3.99 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.6	79.0	118.6
121	26.6	27.0	40.6#





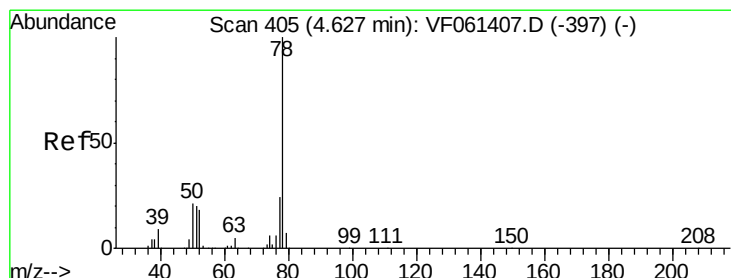
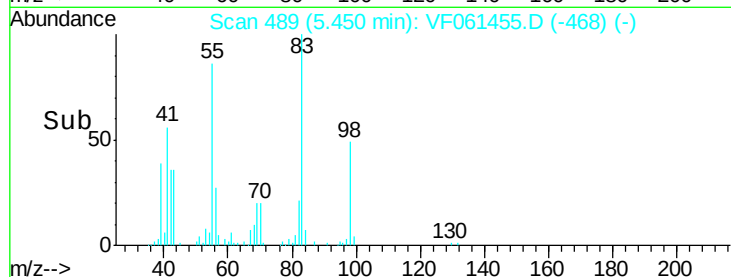
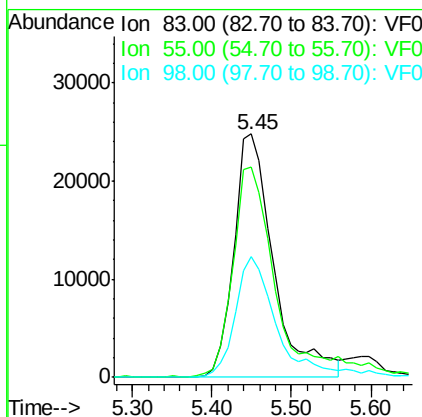
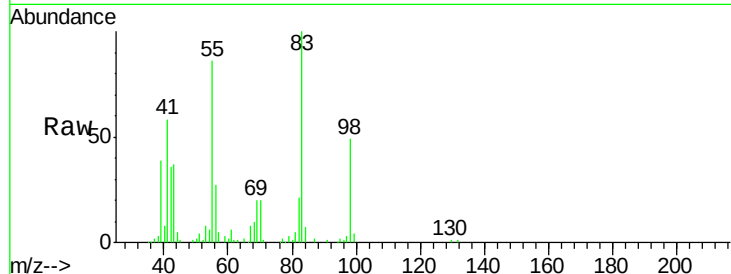
#39
Methylvlcyclohexane
Concen: 19.695 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBSD01

Tot Ion	83	Resp	86372
Ion	Ratio	Lower	Upper
83	100		
55	86.5	67.4	101.2
98	49.4	36.7	55.1

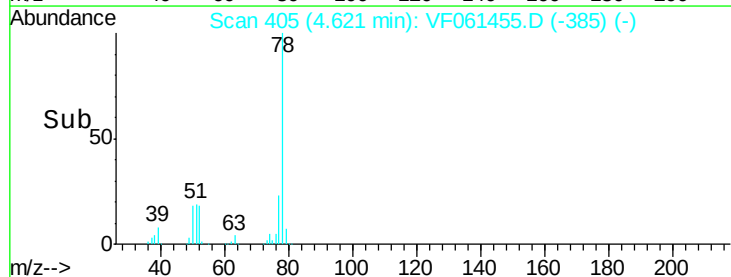
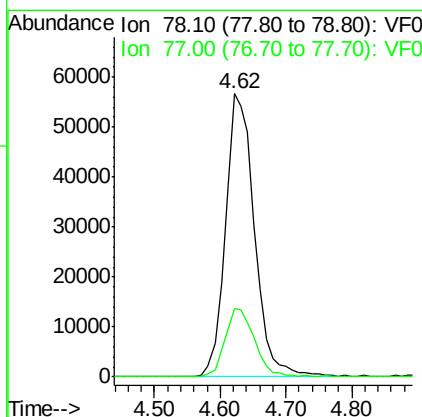
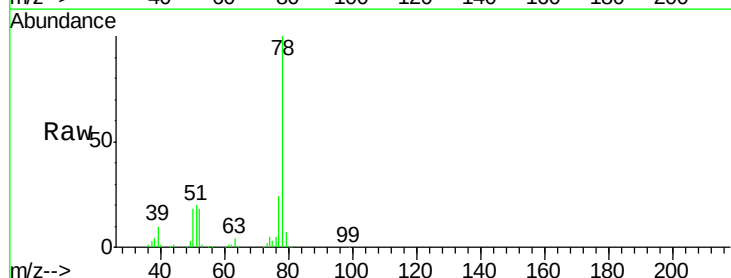
Manual Integrations
APPROVED

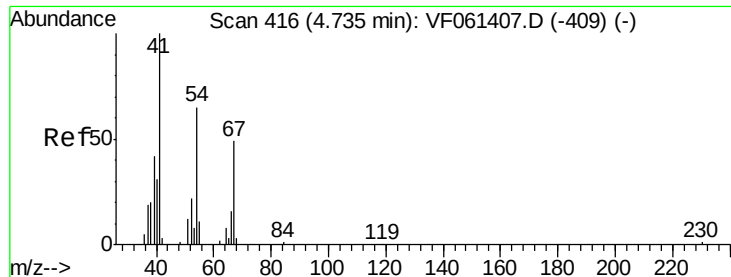
MMDadoda
1/21/2019 11:11:14 AM



#40
Benzene
Concen: 19.406 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	78	Resp	174740
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6





#41

Methacrylonitrile

Concen: 21.931 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

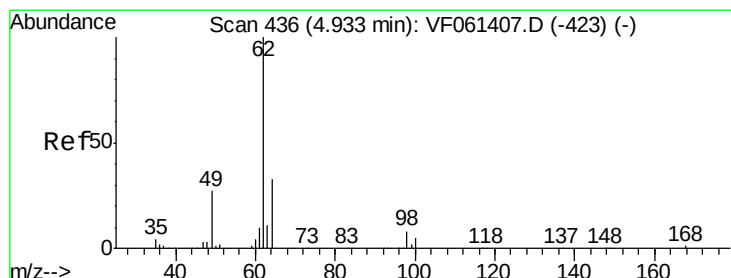
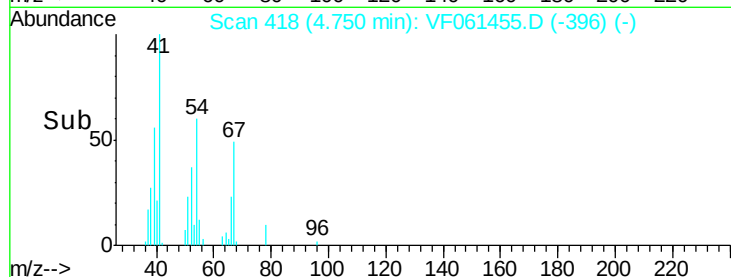
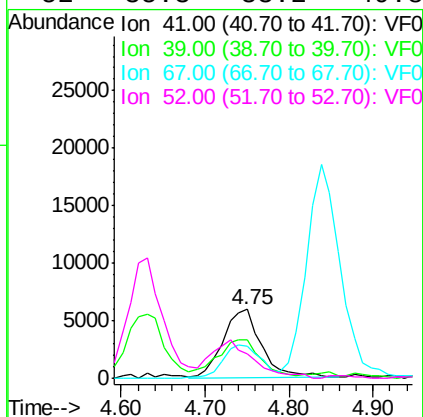
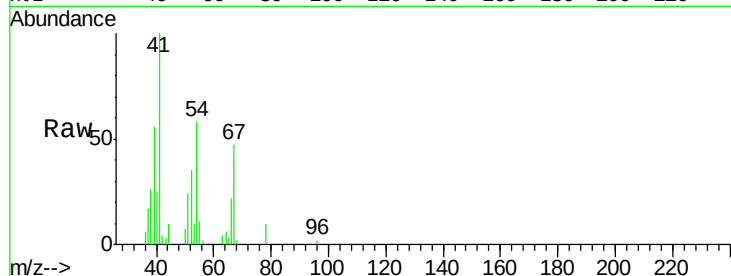
ClientSampleId :

VF0118SBSD01

Tot Ion:	41	Resp:	18877
Ion	Ratio	Lower	Upper
41	100		
39	56.4	43.1	64.7
67	47.0	38.8	58.2
52	35.3	33.2	49.8

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#42

1,2-Dichloroethane

Concen: 18.245 ug/l

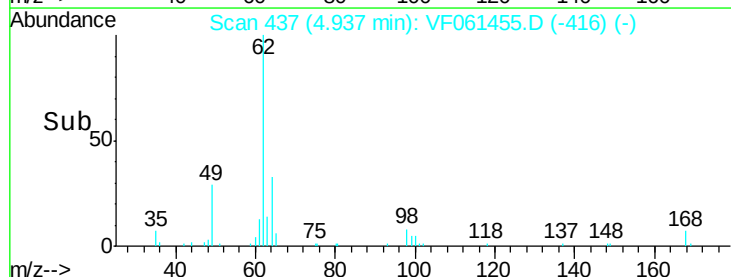
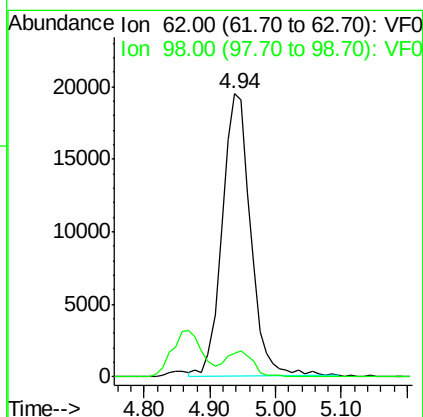
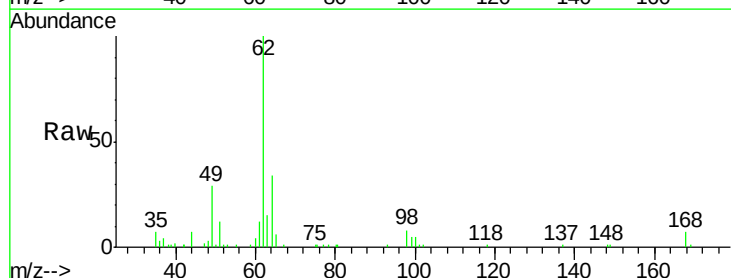
RT: 4.94 min Scan# 437

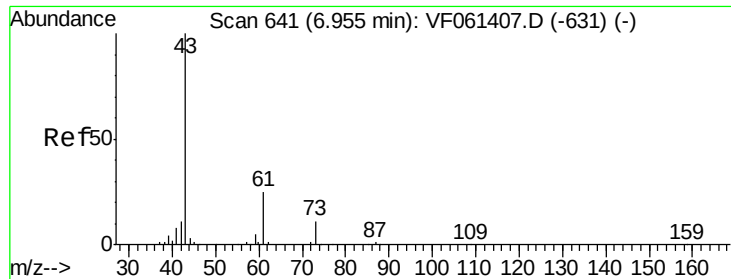
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	62	Resp:	58543
Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0





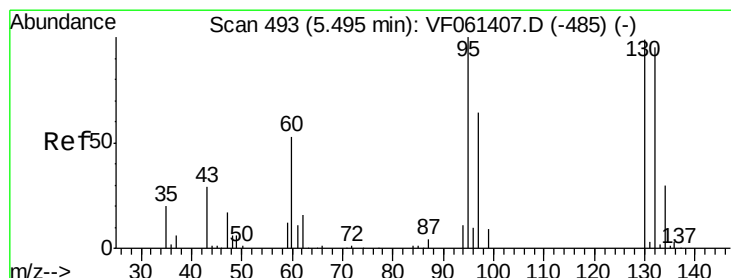
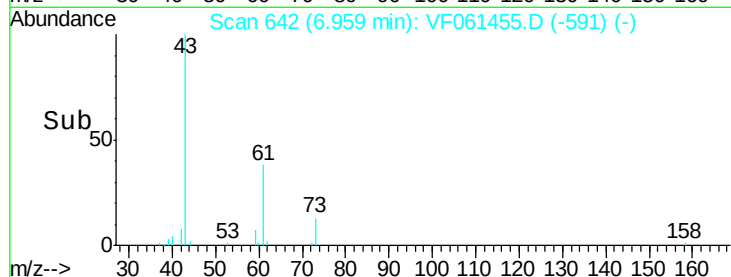
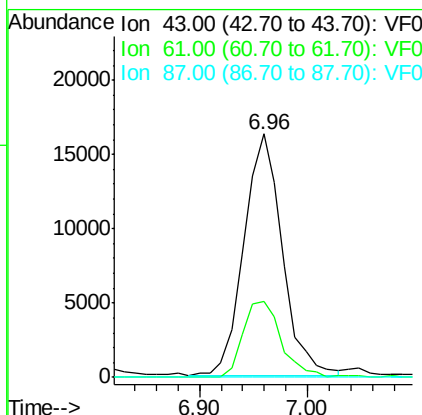
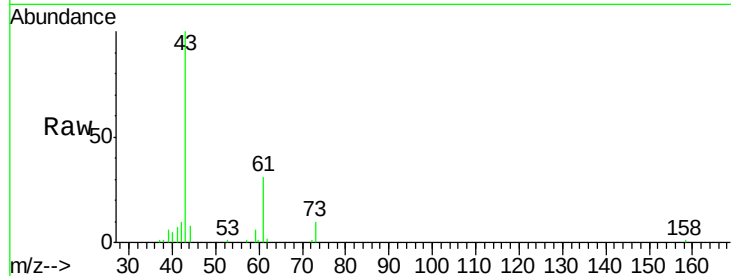
#43
Isopropyl Acetate
Concen: 19.811 ug/l
RT: 6.96 min Scan# 642
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.3	20.3	30.5#
87	0.0	0.5	0.7#

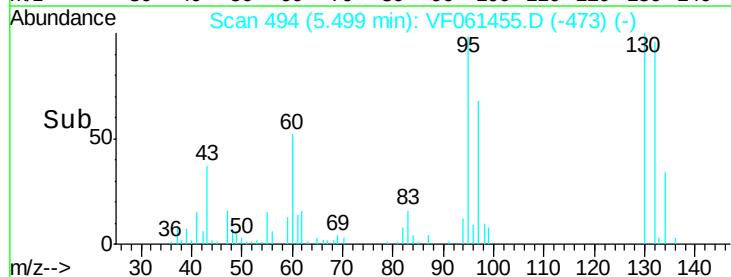
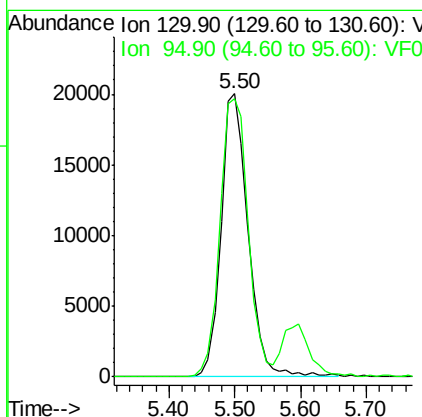
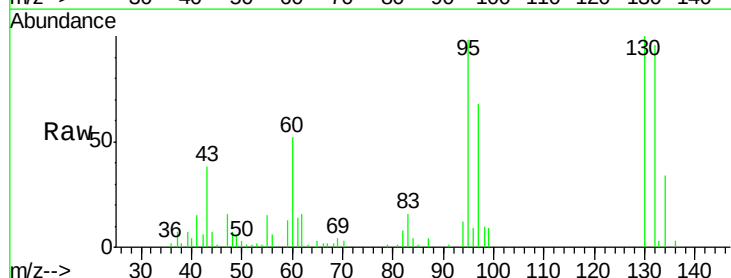
Manual Integrations
APPROVED

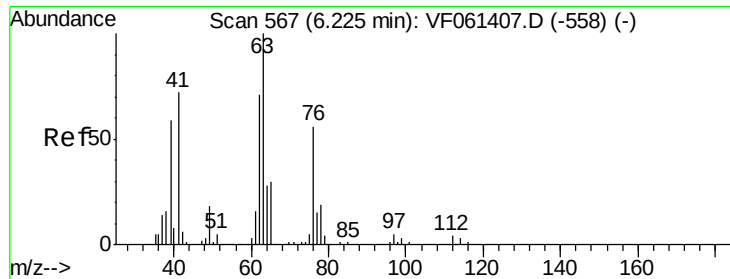
MMDadoda
1/21/2019 11:11:14 AM



#44
Trichloroethene
Concen: 20.754 ug/l
RT: 5.50 min Scan# 494
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	202.8





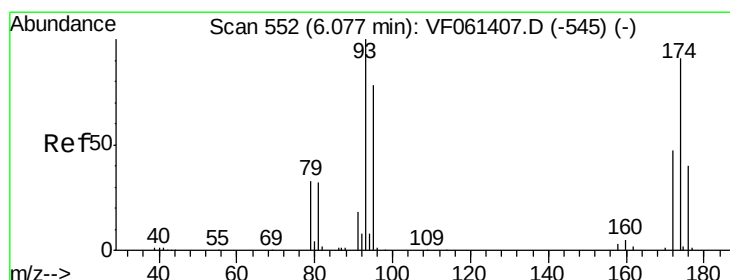
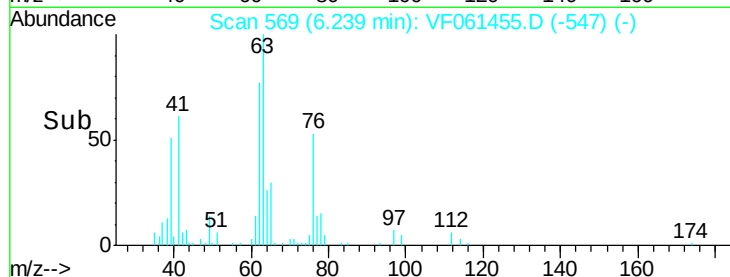
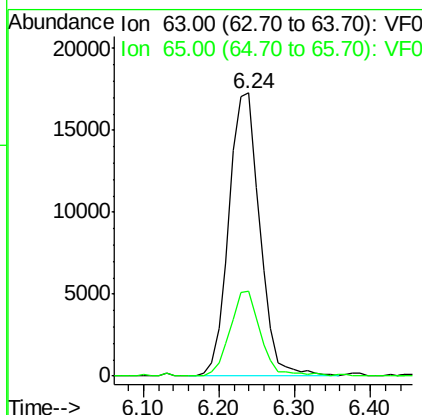
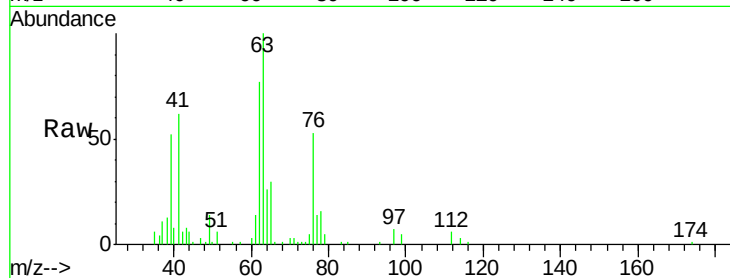
#45
 1,2-Dichloropropane
 Concen: 20.694 ug/l
 RT: 6.24 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.4	36.6

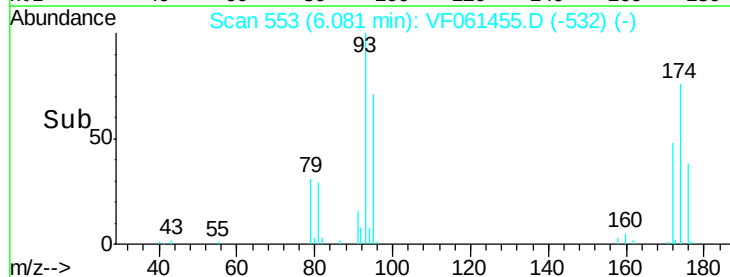
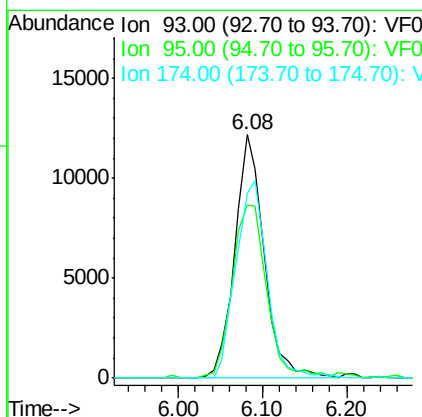
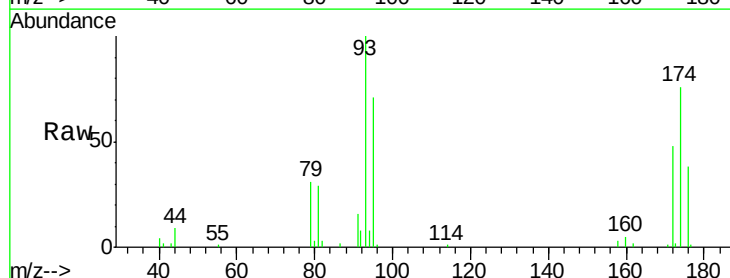
Manual Integrations
 APPROVED

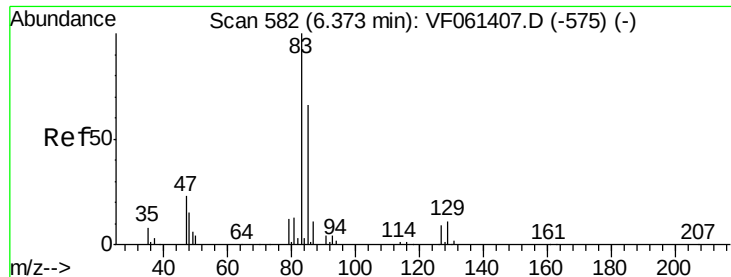
MMDadoda
 1/21/2019 11:11:14 AM



#46
 Dibromomethane
 Concen: 18.861 ug/l
 RT: 6.08 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
93	100		
95	71.4	62.1	93.1
174	75.8	74.6	111.8





#47

Bromodichloromethane

Concen: 19.412 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

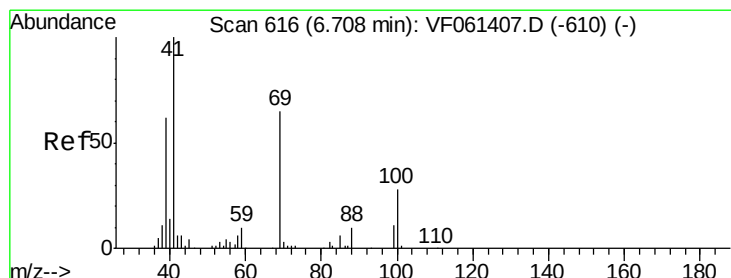
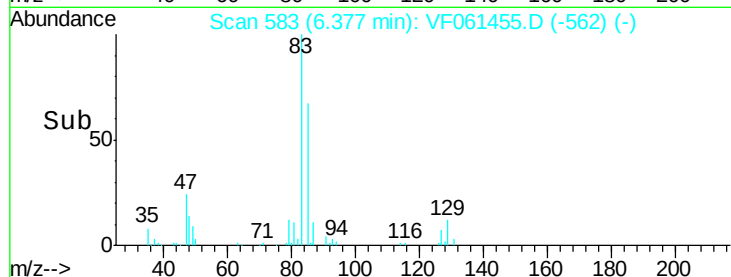
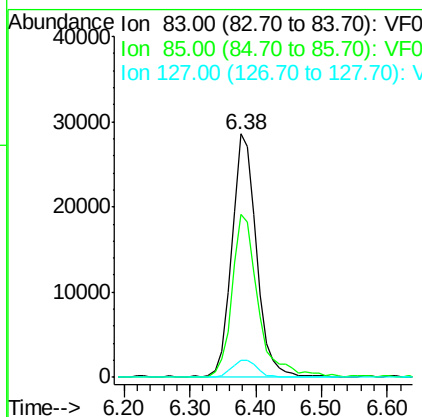
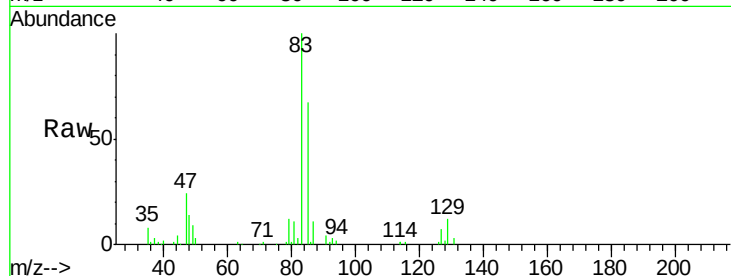
ClientSampleId :

VF0118SBS01

Tot Ion:	83	Resp:	75476
Ion Ratio	Lower	Upper	
83	100		
85	67.2	53.0	79.4
127	6.8	6.9	10.3#

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#48

Methyl methacrylate

Concen: 21.534 ug/l

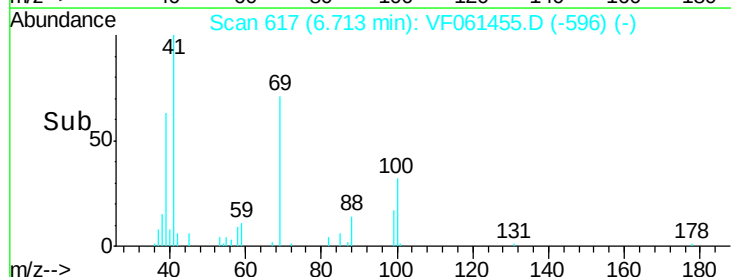
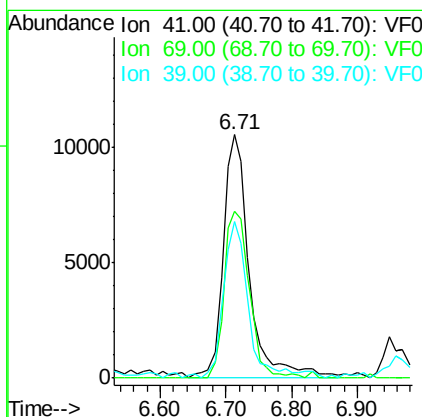
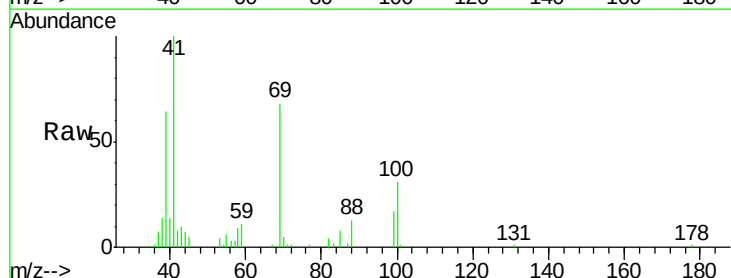
RT: 6.71 min Scan# 617

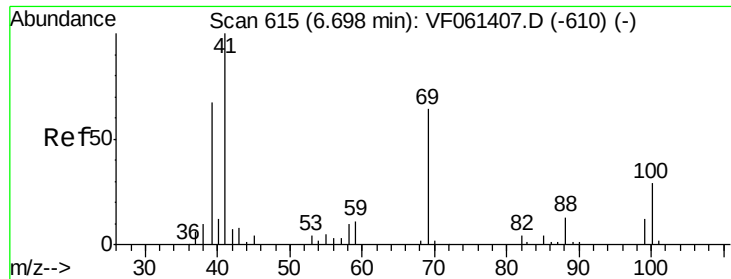
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	41	Resp:	29357
Ion Ratio	Lower	Upper	
41	100		
69	68.4	51.7	77.5
39	64.2	49.2	73.8





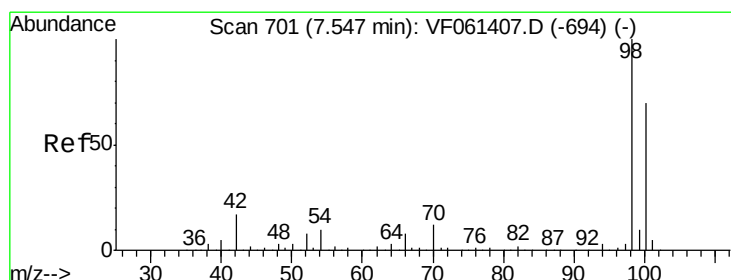
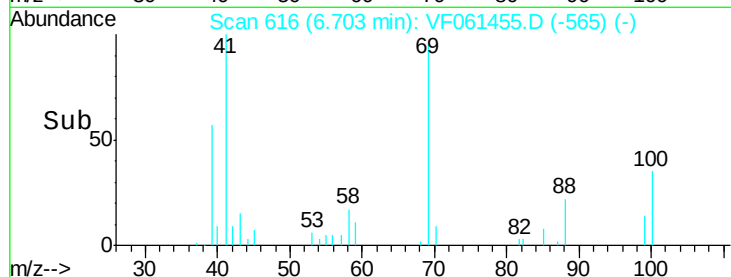
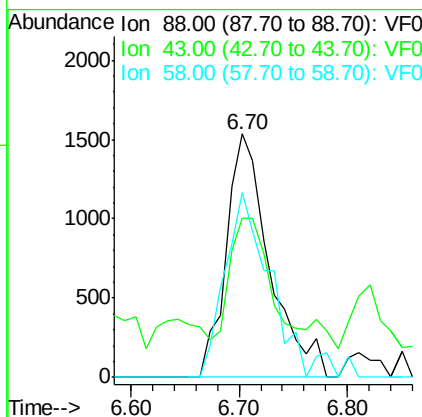
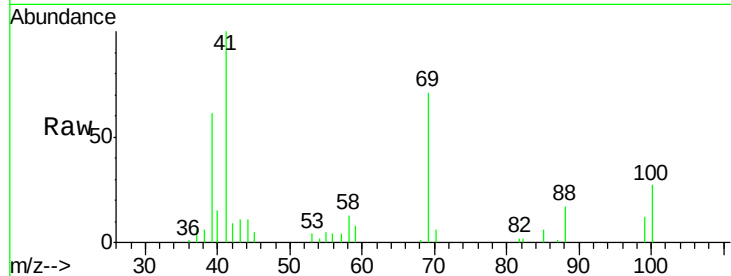
#49
1,4-Dioxane
Concen: 409.056 ug/l
RT: 6.70 min Scan# 616
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	65.6	55.5	83.3
58	76.0	59.9	89.9

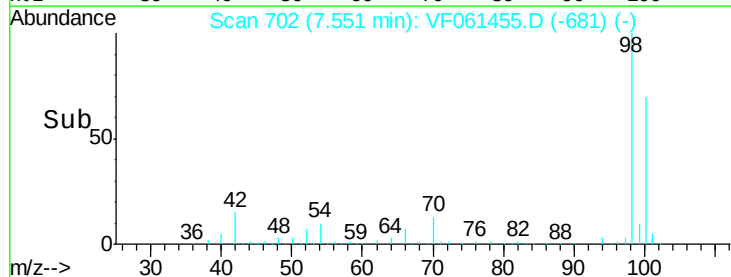
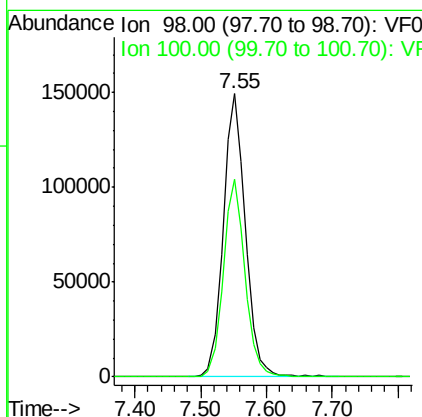
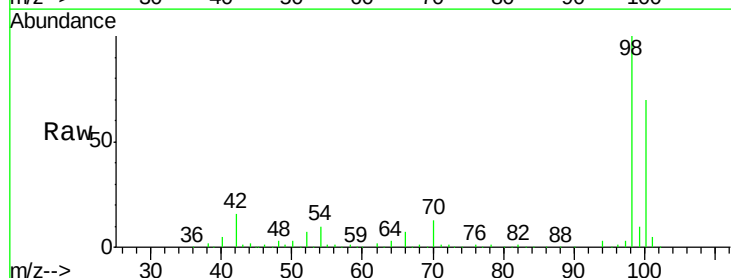
Manual Integrations
APPROVED

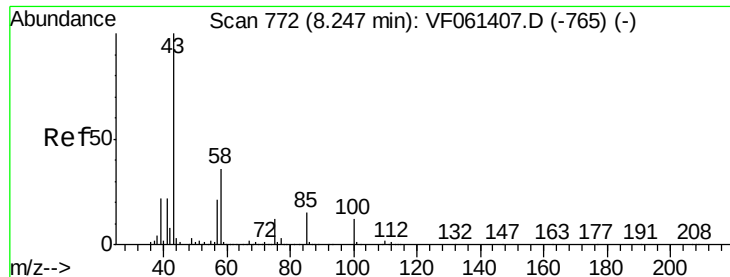
MMDadoda
1/21/2019 11:11:14 AM



#50
Toluene-d8
Concen: 46.603 ug/l
RT: 7.55 min Scan# 702
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.7	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 114.404 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 43 Resp: 170749

Ion Ratio Lower Upper

43 100

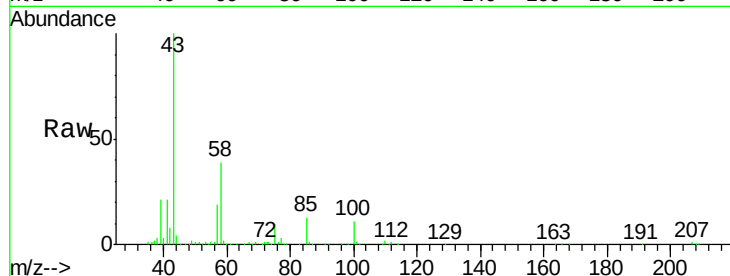
58 38.5 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

60000

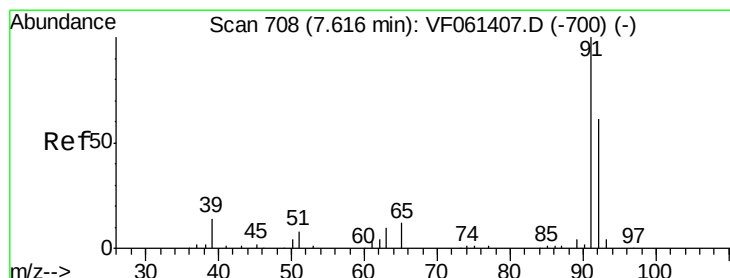
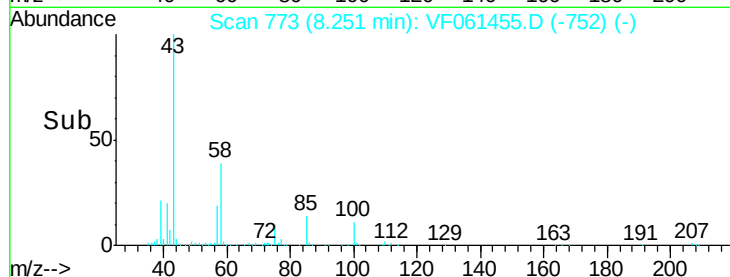
40000

20000

0

8.10 8.20 8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 19.108 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061455.D

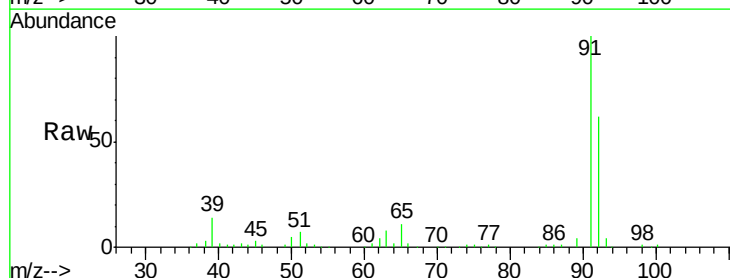
Acq: 18 Jan 2019 13:11

Tgt Ion: 92 Resp: 113305

Ion Ratio Lower Upper

92 100

91 161.9 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

80000

60000

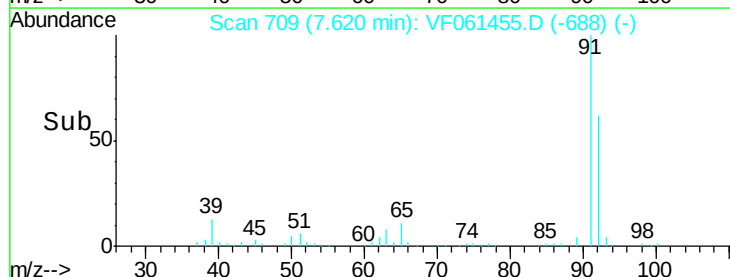
40000

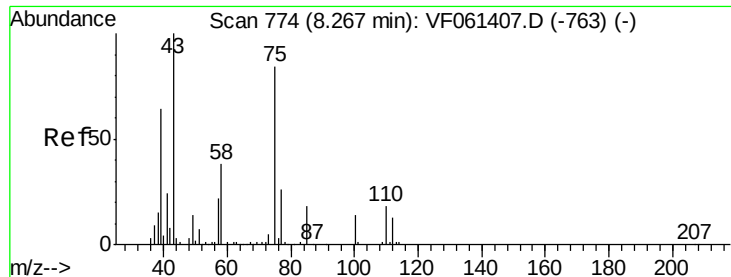
20000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.750 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 75 Resp: 64062

Ion Ratio Lower Upper

75 100

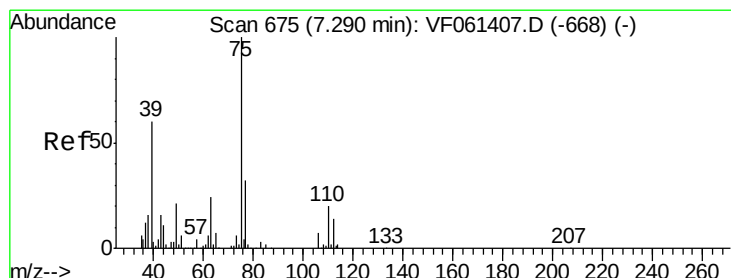
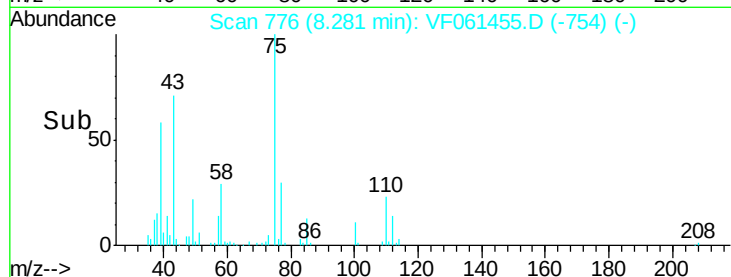
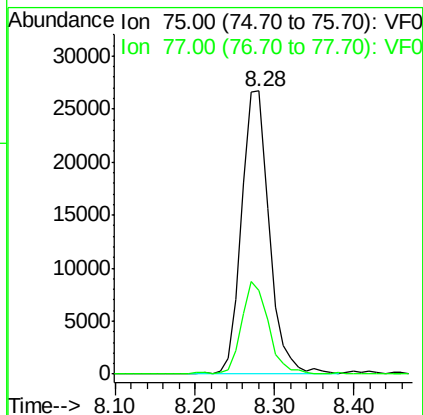
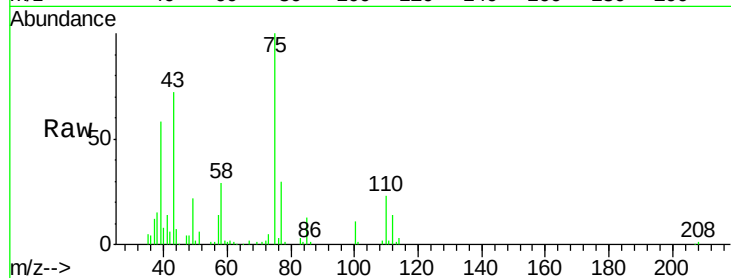
77 29.5 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#54

cis-1,3-Dichloropropene

Concen: 21.017 ug/l

RT: 7.29 min Scan# 676

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

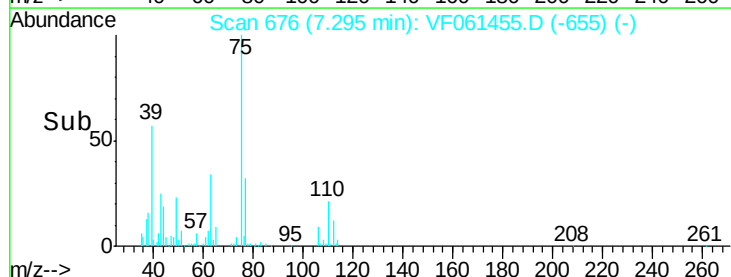
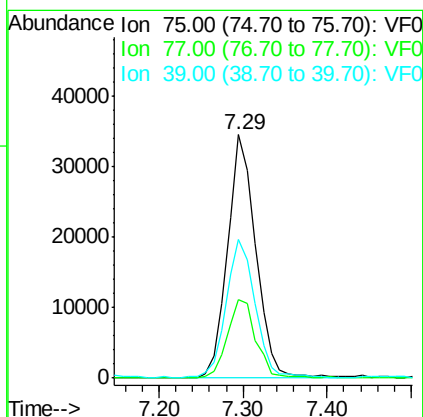
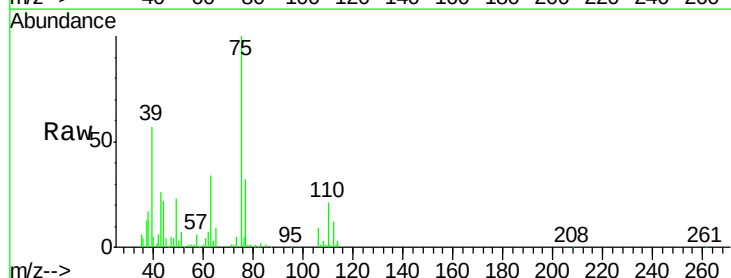
Tgt Ion: 75 Resp: 81107

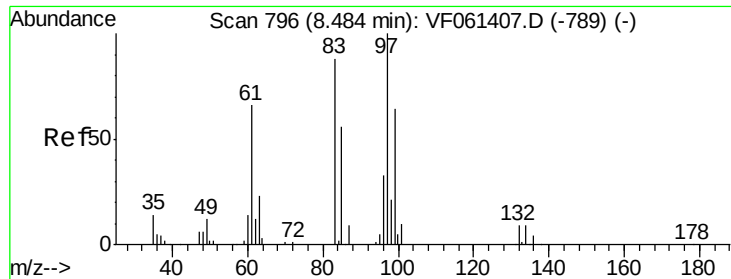
Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.0

39 57.1 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 20.220 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

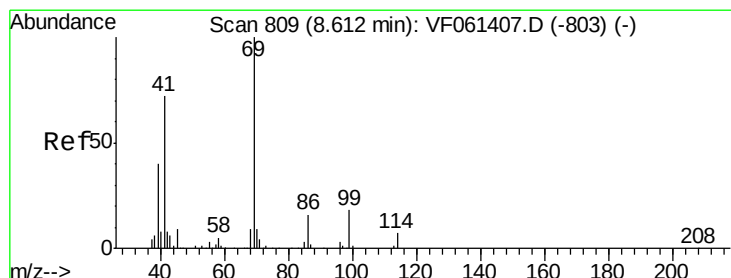
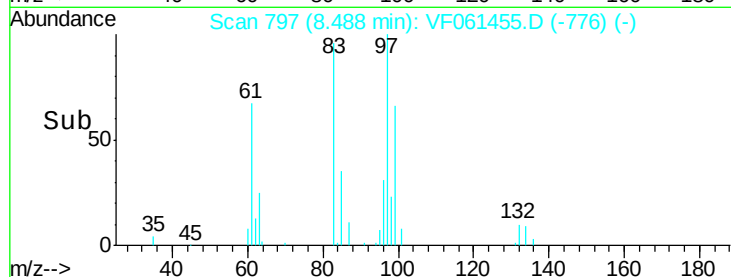
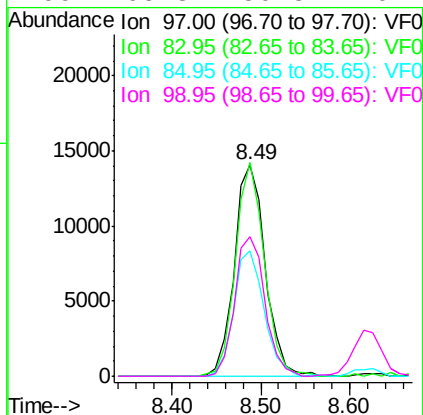
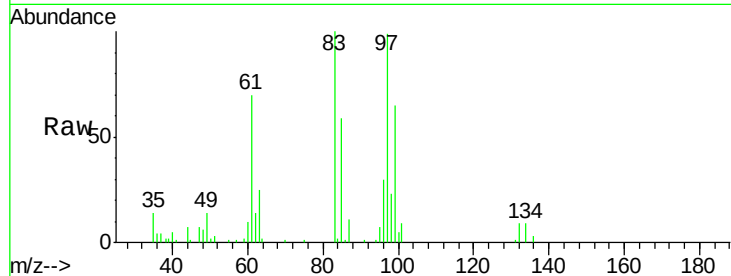
ClientSampleId :

VF0118SBS01

Tot Ion:	97	Resp:	34049
Ion	Ratio	Lower	Upper
97	100		
83	101.0	70.4	105.6
85	59.4	44.7	67.1
99	65.8	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#56

Ethyl methacrylate

Concen: 19.652 ug/l

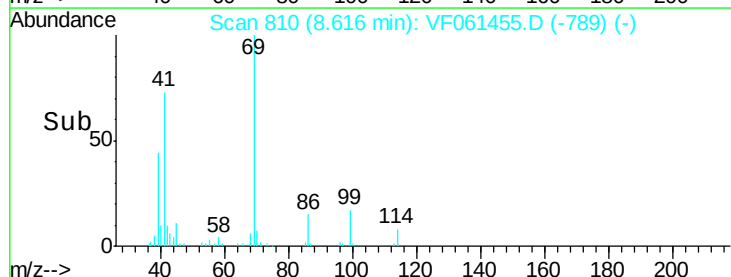
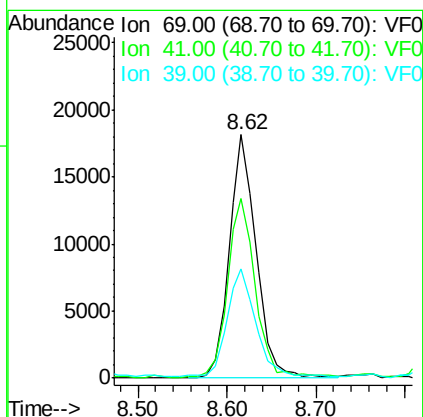
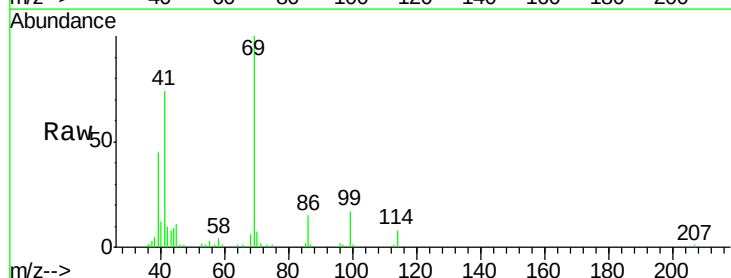
RT: 8.62 min Scan# 810

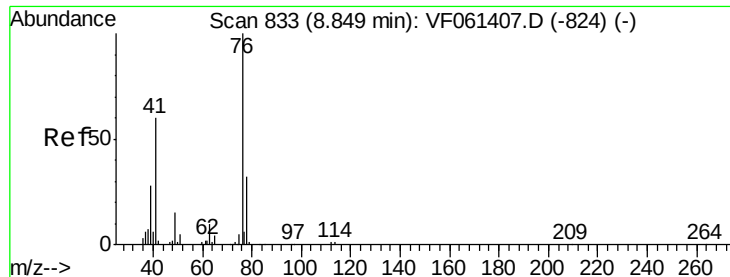
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	69	Resp:	38501
Ion	Ratio	Lower	Upper
69	100		
41	73.9	57.5	86.3
39	44.7	32.0	48.0





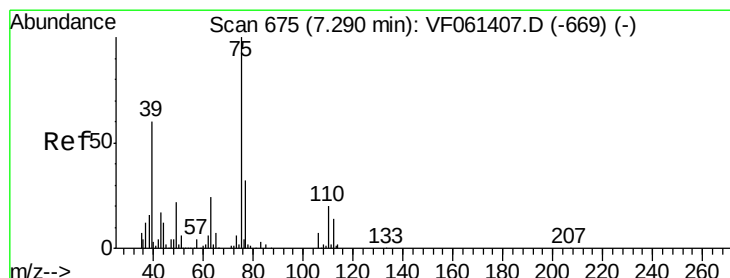
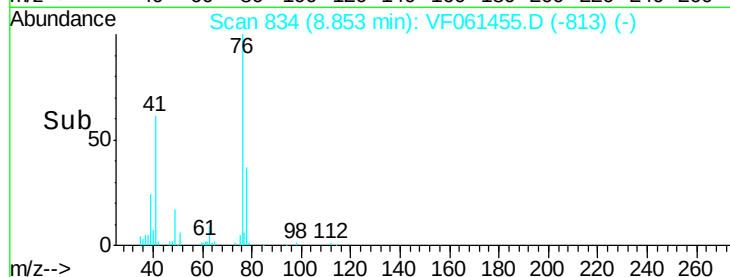
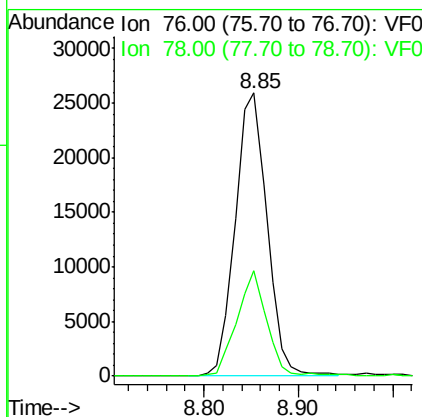
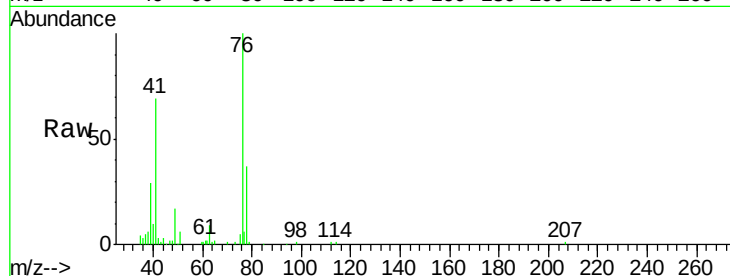
#57
 1,3-Dichloropropane
 Concen: 19.225 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	37.2	25.3	37.9

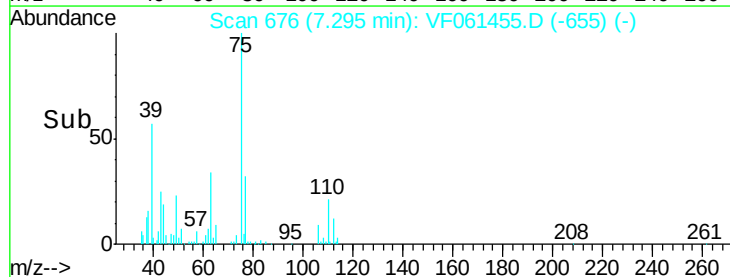
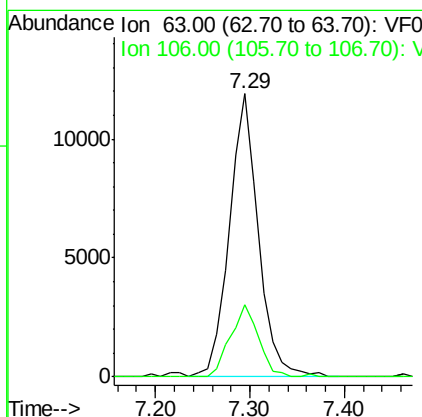
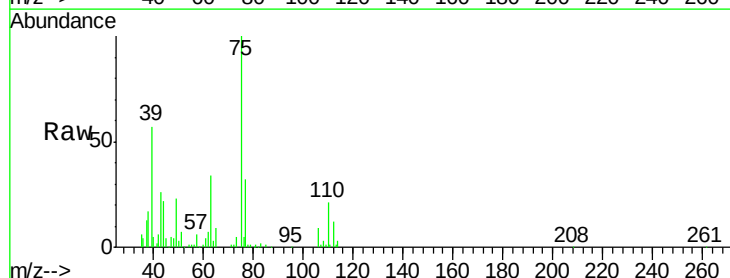
Manual Integrations
 APPROVED

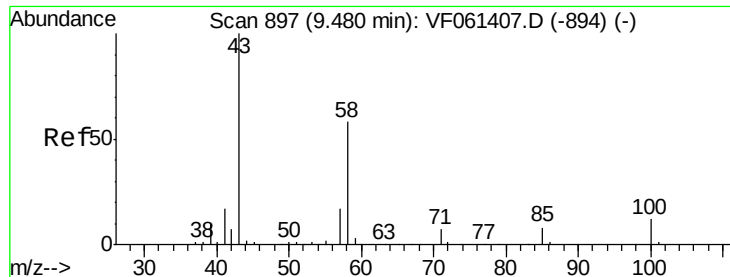
MMDadoda
 1/21/2019 11:11:14 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 137.141 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.3	21.9	32.9





#59

2-Hexanone

Concen: 118.377 ug/l

RT: 9.48 min Scan# 898

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 43 Resp: 123202

Ion Ratio Lower Upper

43 100

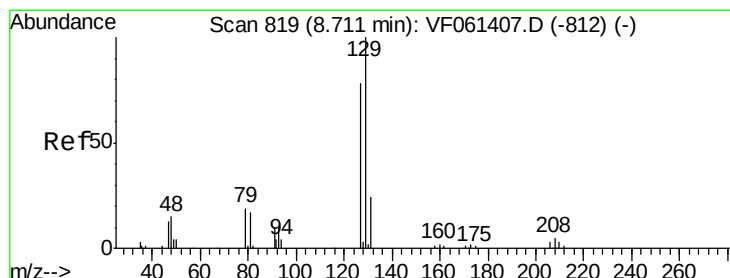
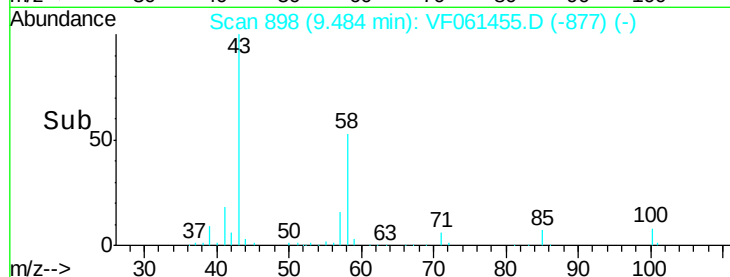
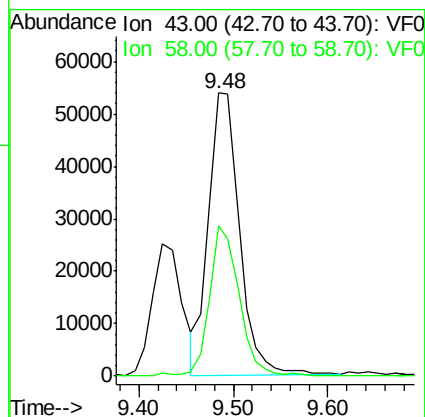
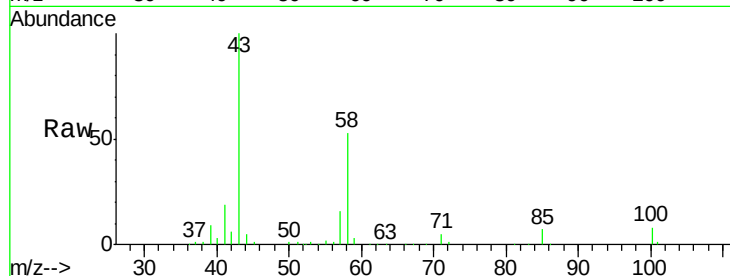
58 53.2 25.9 77.6

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#60

Dibromochloromethane

Concen: 19.550 ug/l

RT: 8.71 min Scan# 820

Delta R.T. 0.00 min

Lab File: VF061455.D

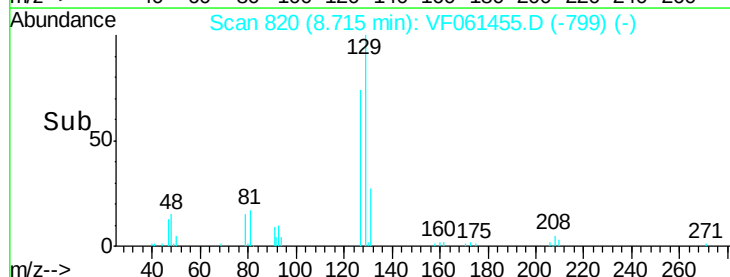
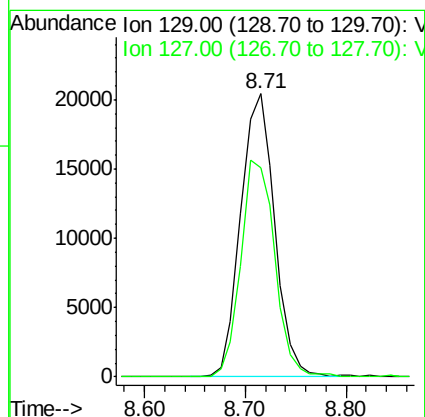
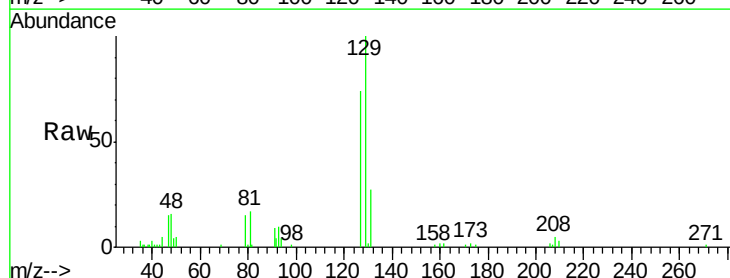
Acq: 18 Jan 2019 13:11

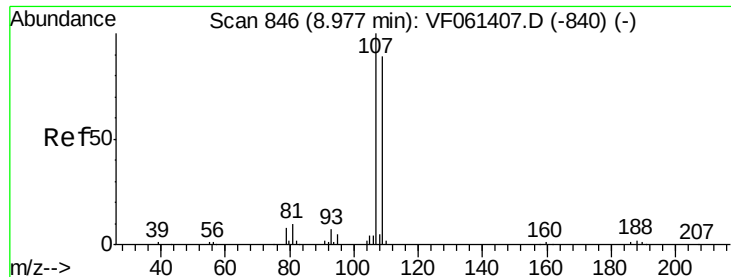
Tgt Ion: 129 Resp: 48127

Ion Ratio Lower Upper

129 100

127 74.1 39.1 117.2





#61

1,2-Dibromoethane

Concen: 19.603 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 107 Resp: 37789

Ion Ratio Lower Upper

107 100

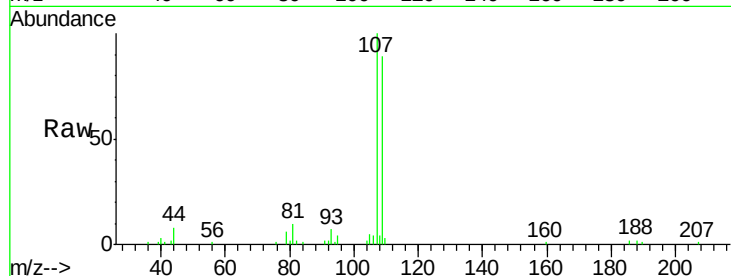
109 88.6 70.8 106.2

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

15000

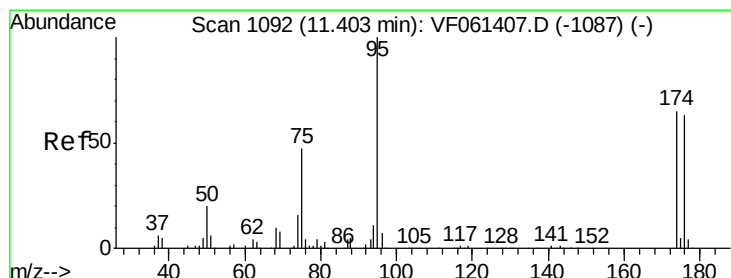
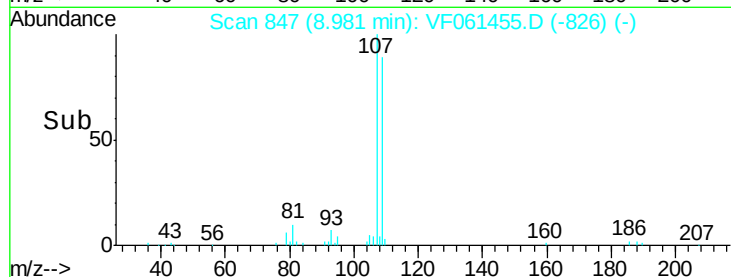
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 46.815 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

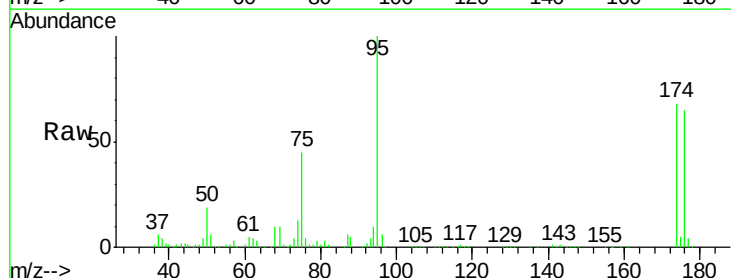
Tgt Ion: 95 Resp: 165045

Ion Ratio Lower Upper

95 100

174 68.3 0.0 130.4

176 65.5 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

11.41

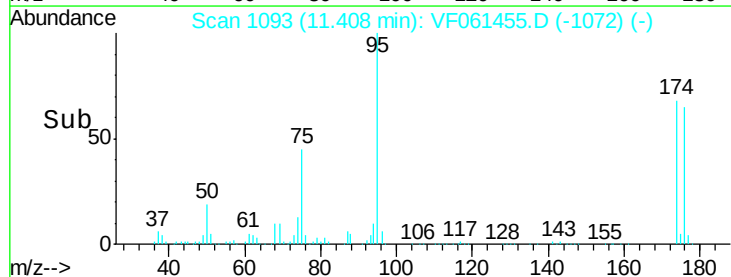
100000

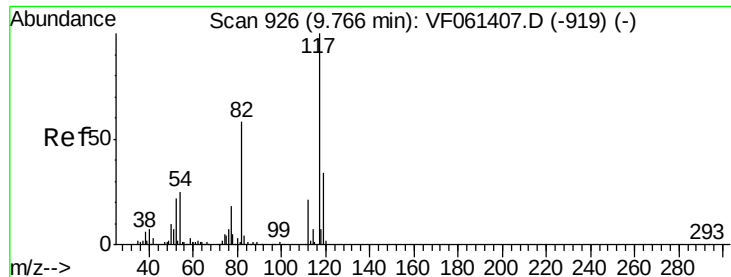
50000

0

11.40 11.60

Time-->





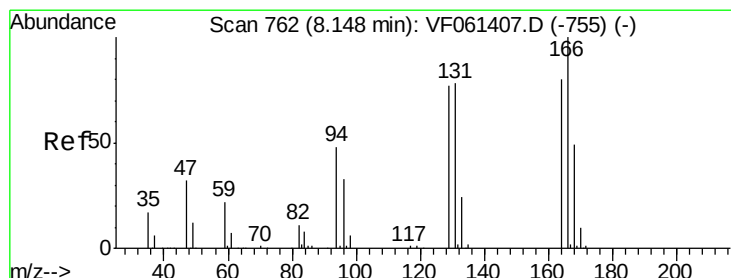
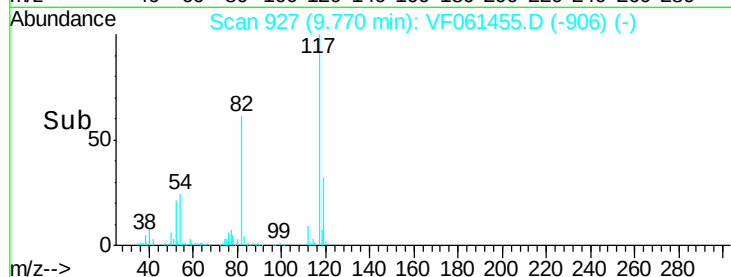
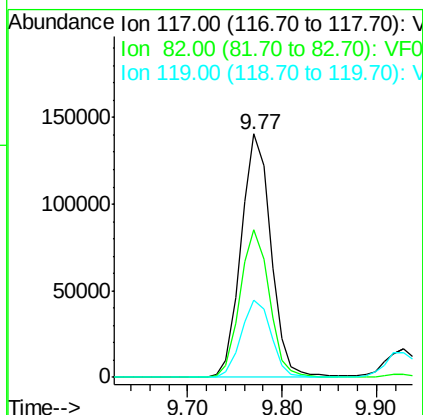
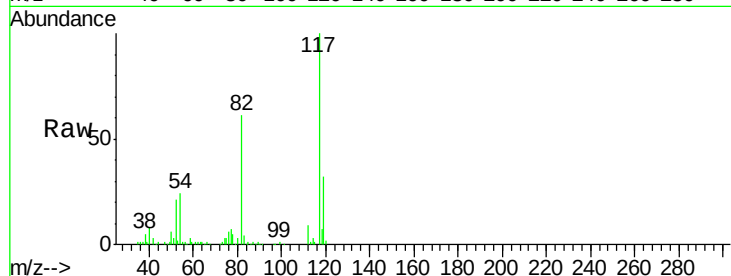
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.7	46.4	69.6
119	31.9	27.2	40.8

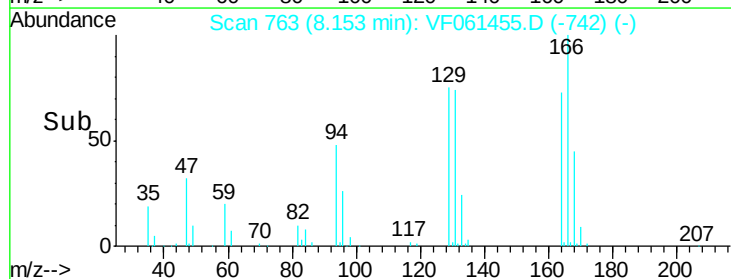
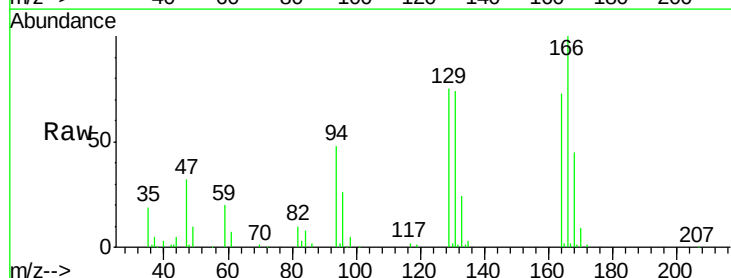
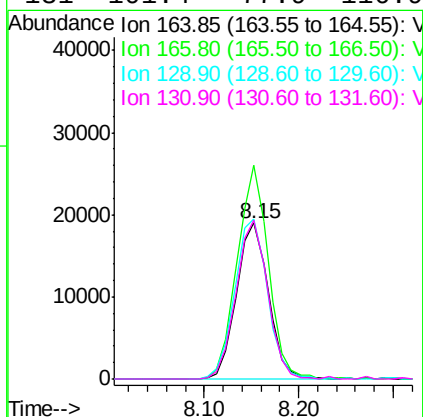
Manual Integrations
APPROVED

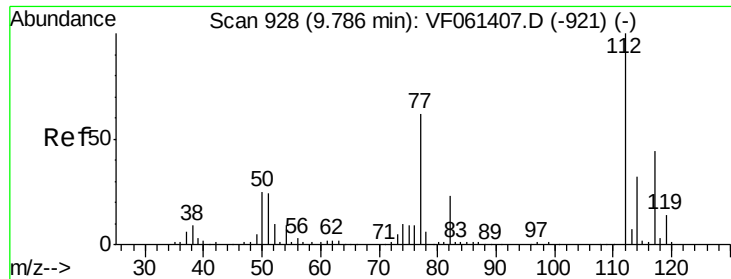
MMDadoda
1/21/2019 11:11:14 AM



#64
Tetrachloroethene
Concen: 19.152 ug/l
RT: 8.15 min Scan# 763
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.8	99.6	149.4
129	102.4	76.4	114.6
131	101.4	77.9	116.9





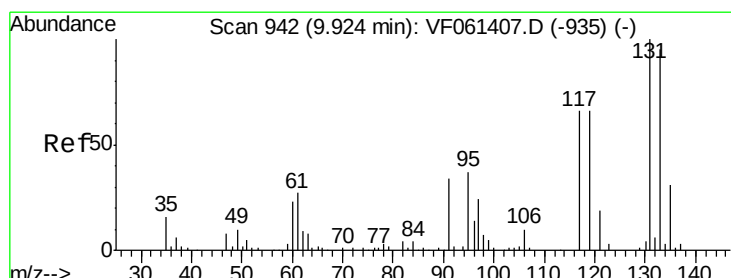
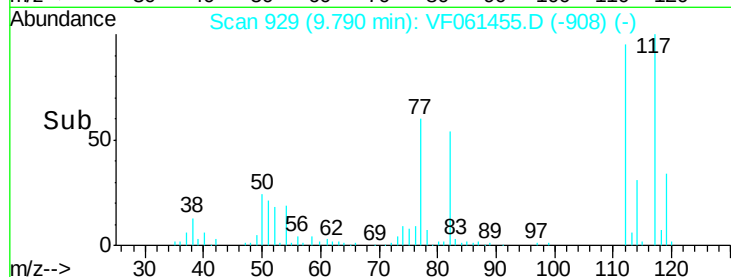
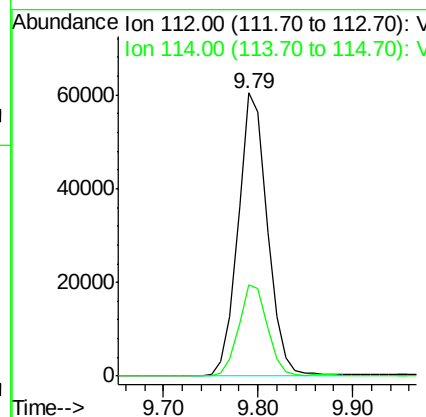
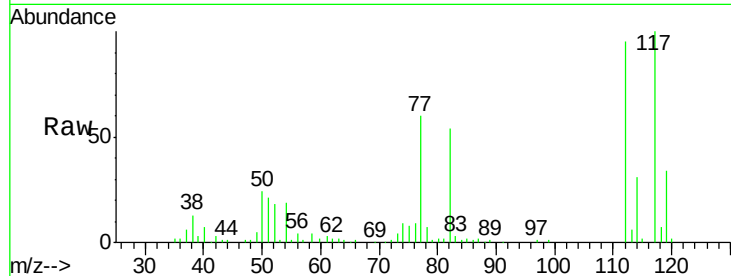
#65
Chlorobenzene
Concen: 20.719 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion:112 Resp: 130325
Ion Ratio Lower Upper
112 100
114 32.4 25.4 38.0

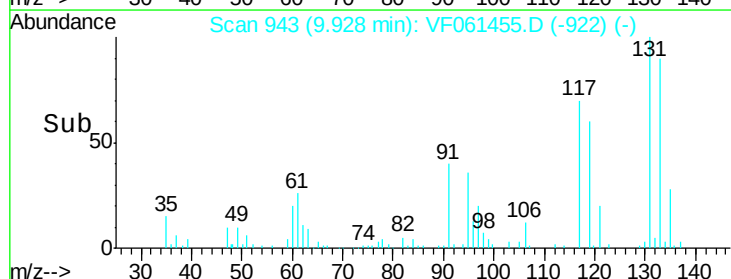
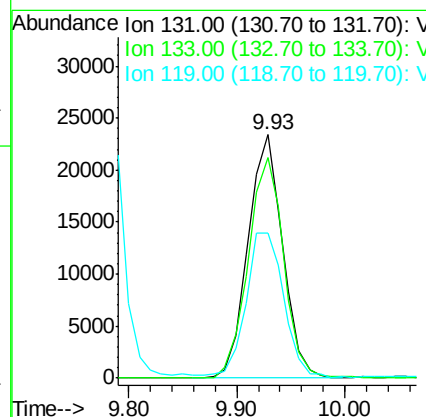
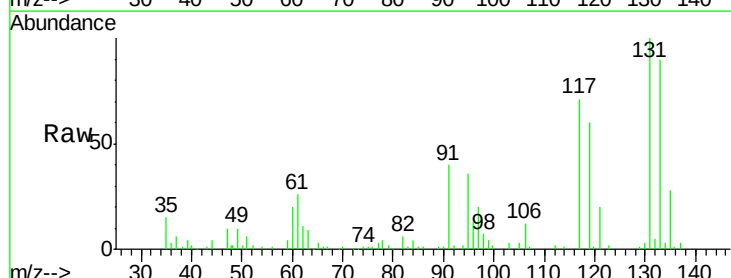
Manual Integrations
APPROVED

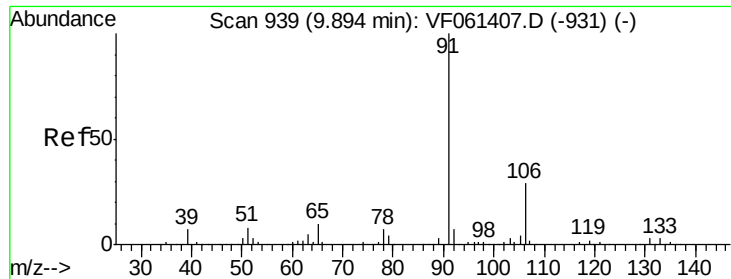
MMDadoda
1/21/2019 11:11:14 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.816 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion:131 Resp: 52159
Ion Ratio Lower Upper
131 100
133 90.4 47.4 142.2
119 59.8 33.1 99.3





#67

Ethyl Benzene

Concen: 20.881 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 91 Resp: 239963

Ion Ratio Lower Upper

91 100

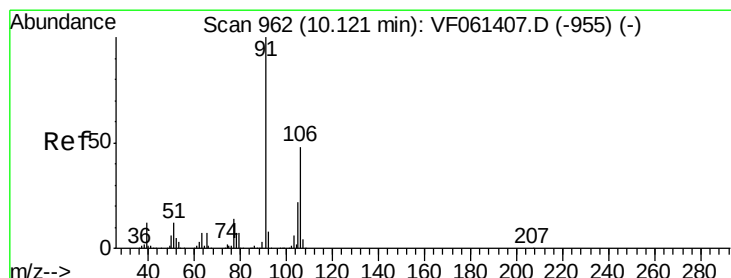
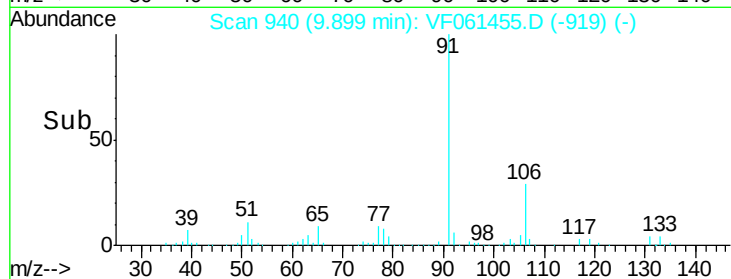
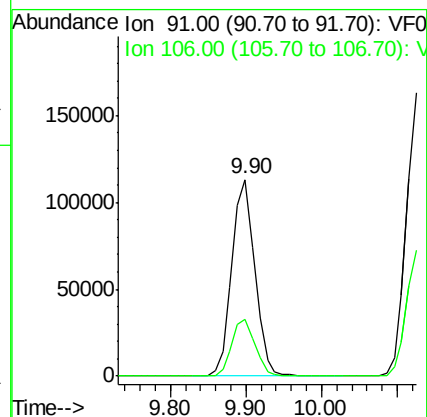
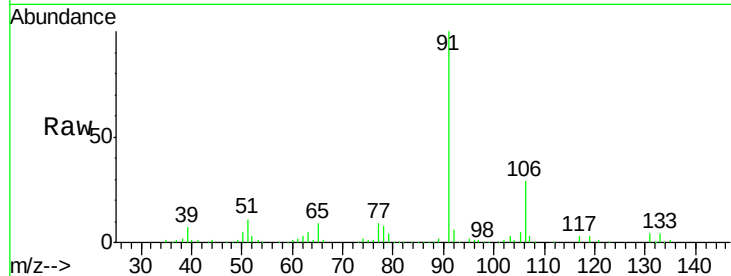
106 29.2 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#68

m/p-Xylenes

Concen: 39.769 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.00 min

Lab File: VF061455.D

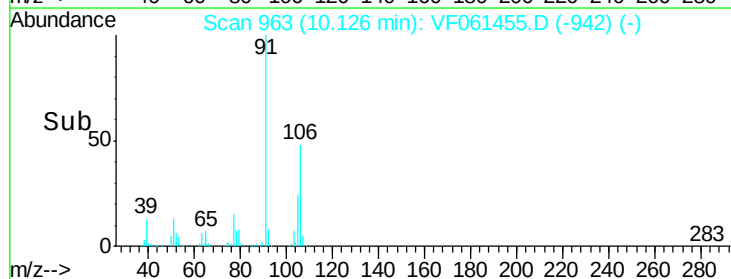
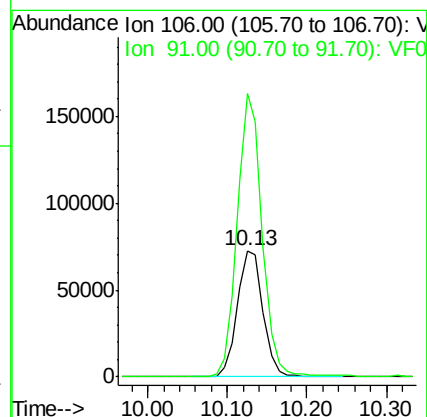
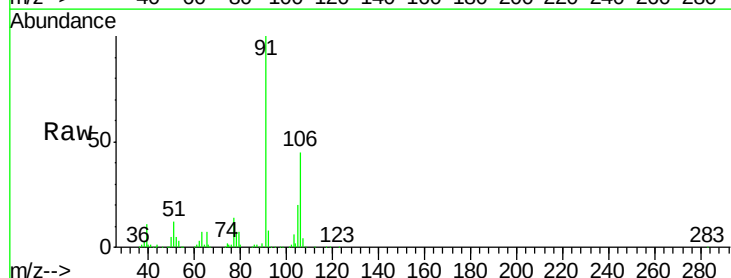
Acq: 18 Jan 2019 13:11

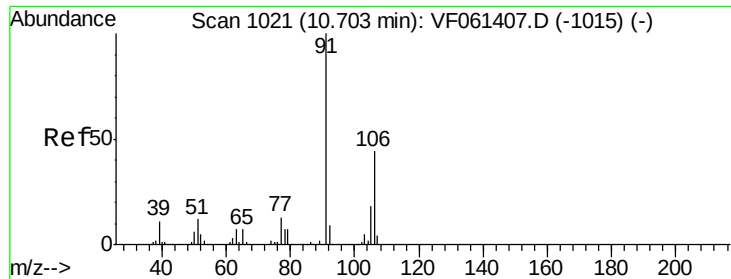
Tgt Ion: 106 Resp: 164379

Ion Ratio Lower Upper

106 100

91 224.0 166.2 249.4





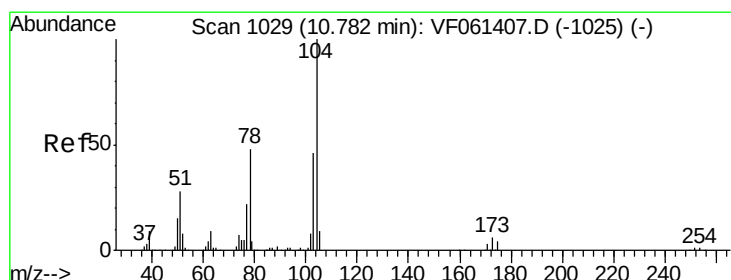
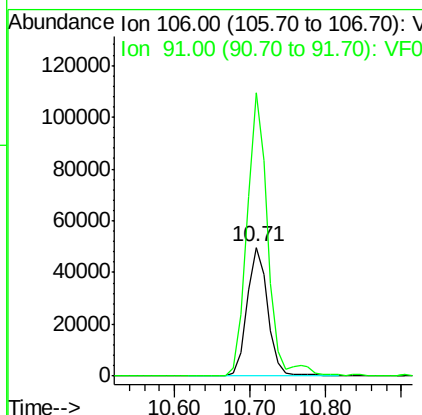
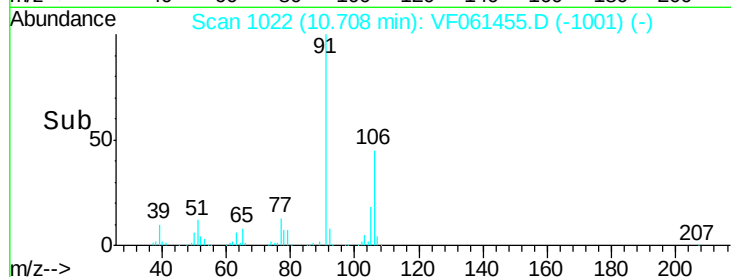
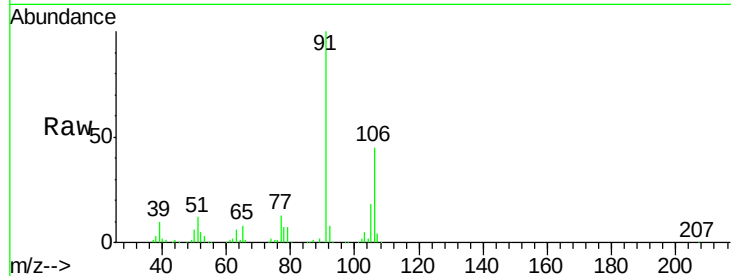
#69
o-Xylene
Concen: 21.132 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion:106 Resp: 94665
Ion Ratio Lower Upper
106 100
91 220.2 113.3 339.8

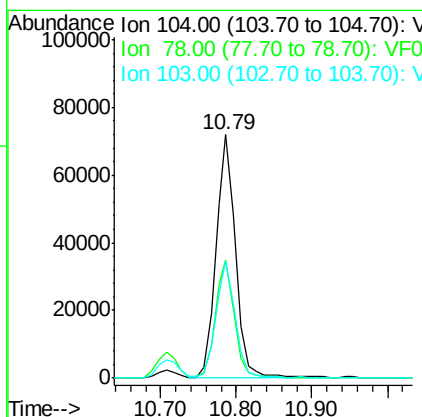
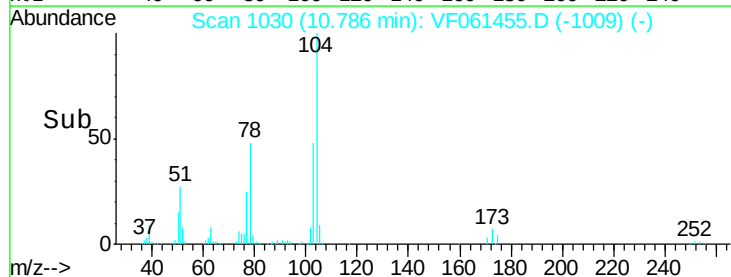
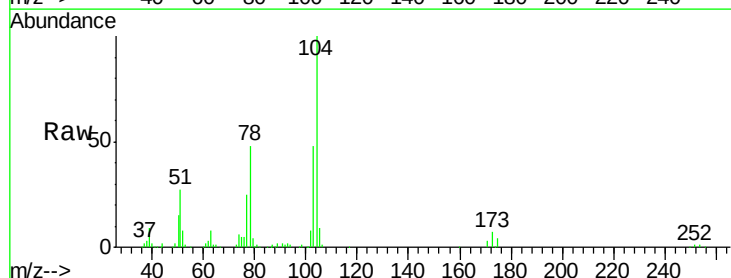
Manual Integrations
APPROVED

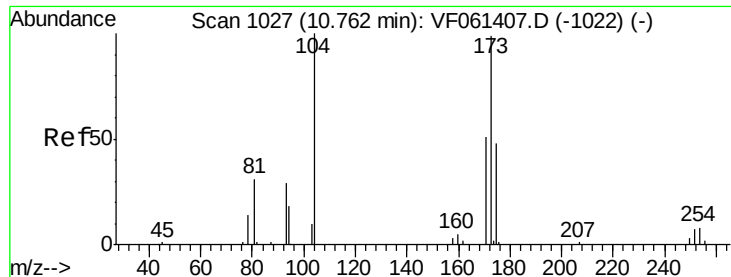
MMDadoda
1/21/2019 11:11:14 AM



#70
Styrene
Concen: 21.113 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion:104 Resp: 129468
Ion Ratio Lower Upper
104 100
78 48.3 38.8 58.2
103 47.8 37.0 55.6





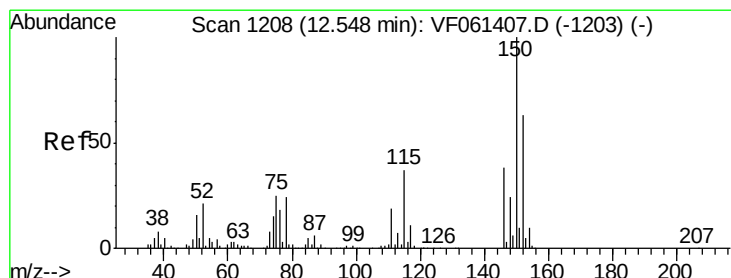
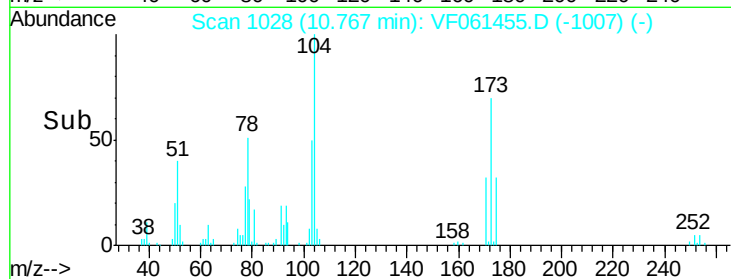
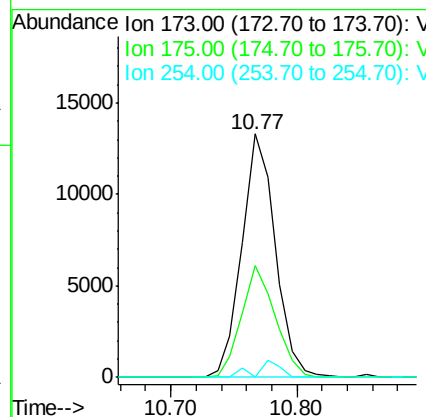
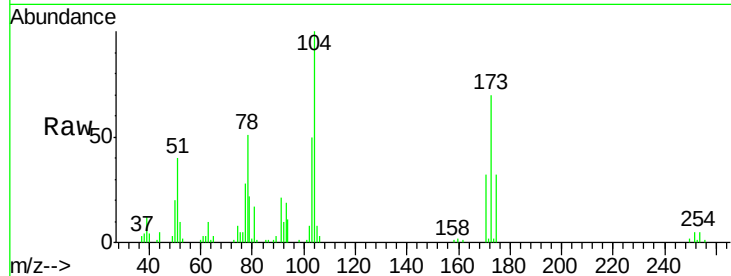
#71
Bromoform
Concen: 21.706 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.1	24.1	72.4
254	0.0	0.0	0.0

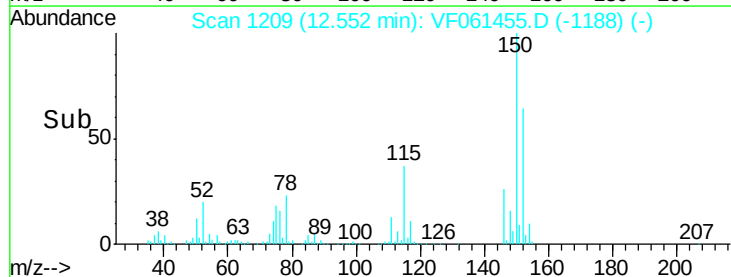
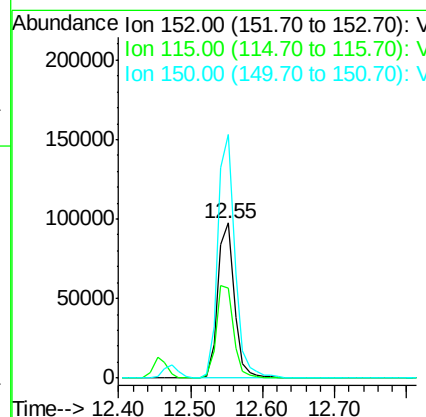
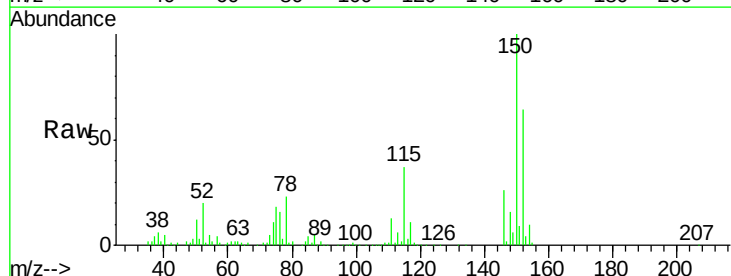
Manual Integrations
APPROVED

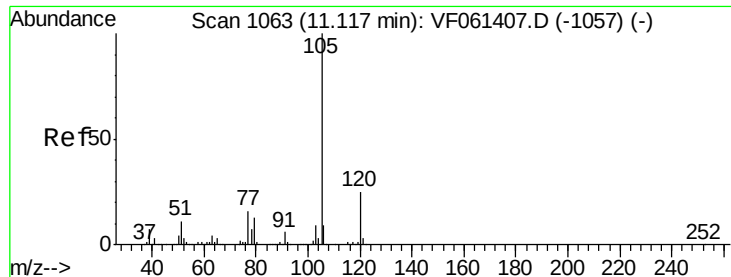
MMDadoda
1/21/2019 11:11:14 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.8	30.0	90.0
150	157.2	0.0	321.4





#73

Isopropylbenzene

Concen: 22.720 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion:105 Resp: 285949

Ion Ratio Lower Upper

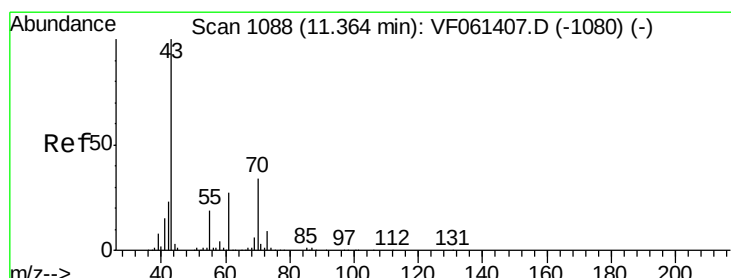
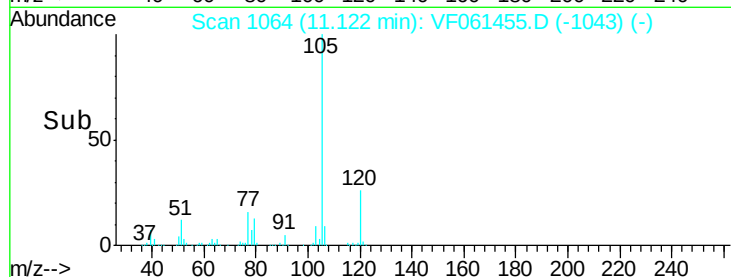
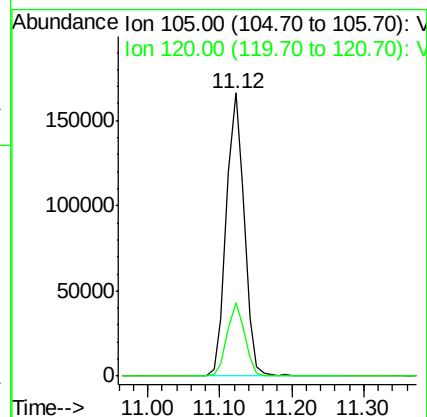
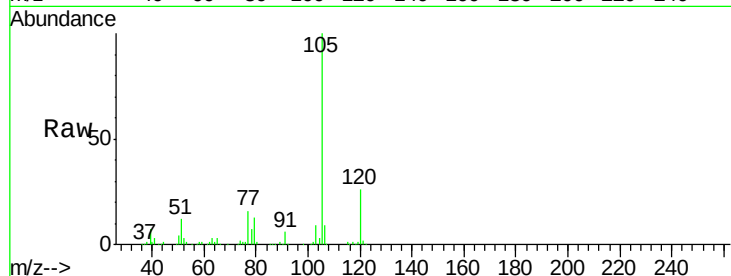
105 100

120 26.2 12.6 37.8

Manual Integrations
APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#74

N-ethyl acetate

Concen: 25.029 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion: 43 Resp: 74488

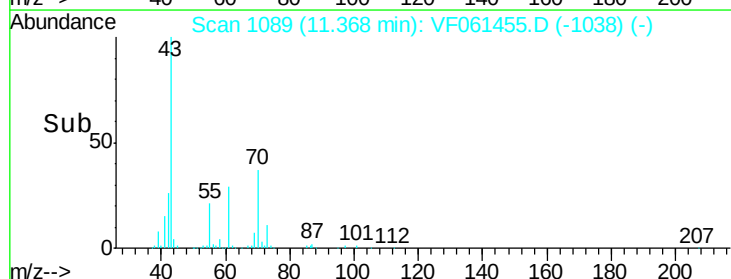
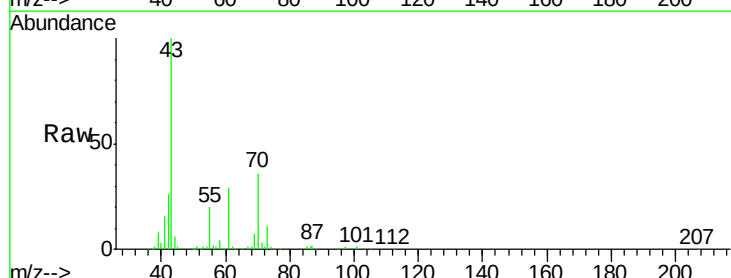
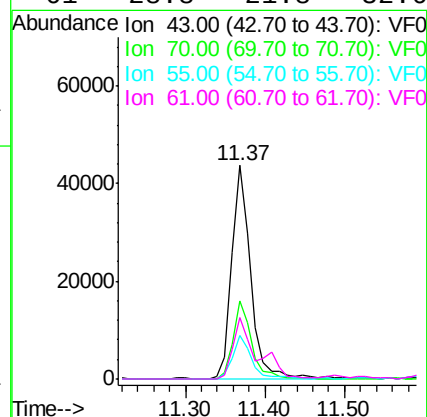
Ion Ratio Lower Upper

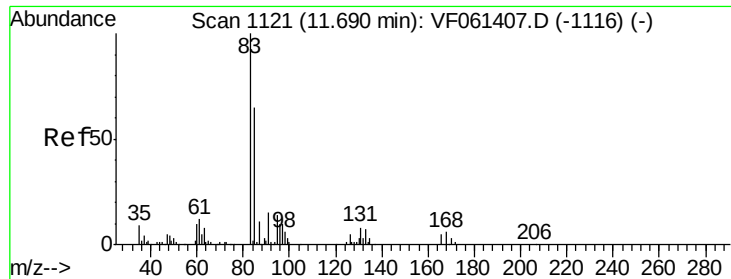
43 100

70 36.5 27.6 41.4

55 20.4 15.4 23.2

61 28.8 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.433 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

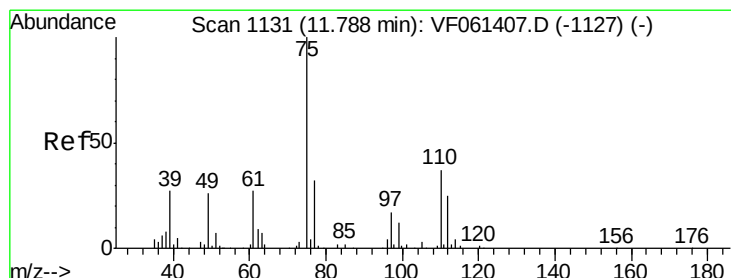
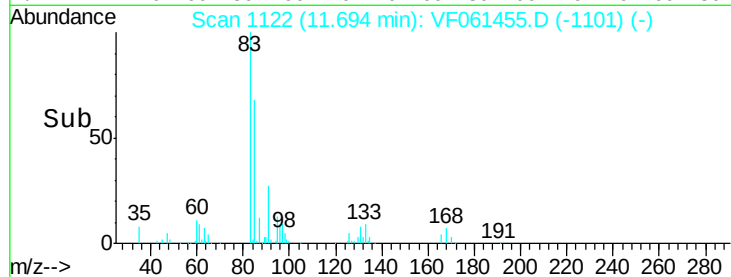
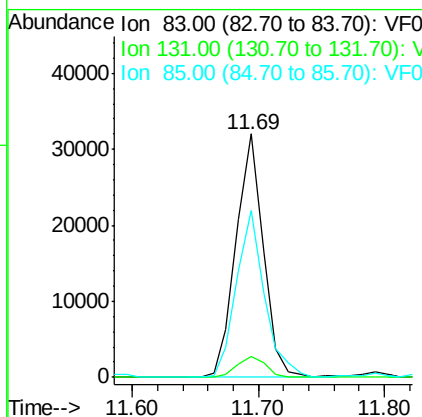
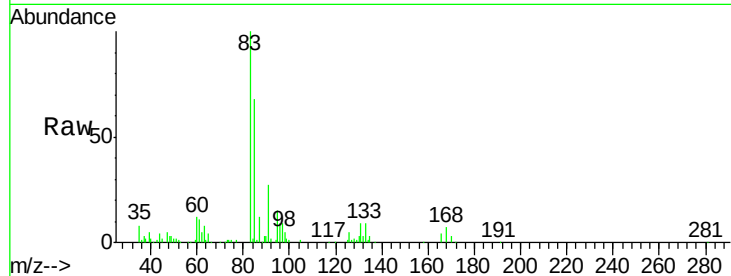
ClientSampleId :

VF0118SBS01

Tot Ion:	83	Resp:	48055
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.0	12.2
85	68.4	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#76

1,2,3-Trichloropropane

Concen: 22.050 ug/l

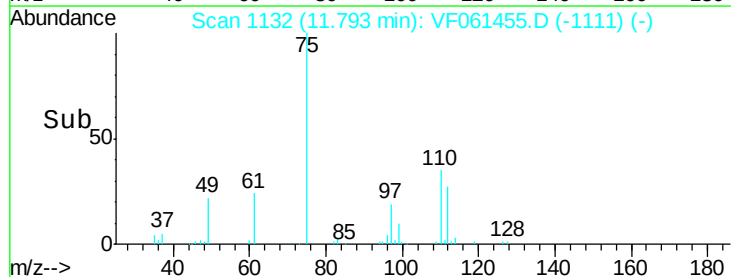
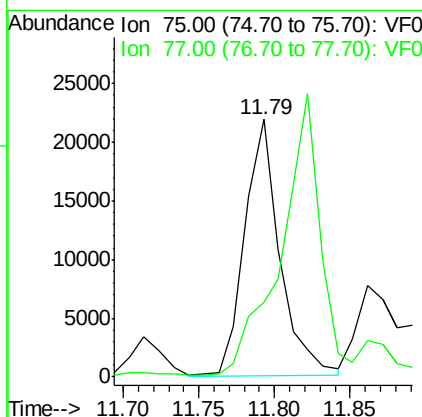
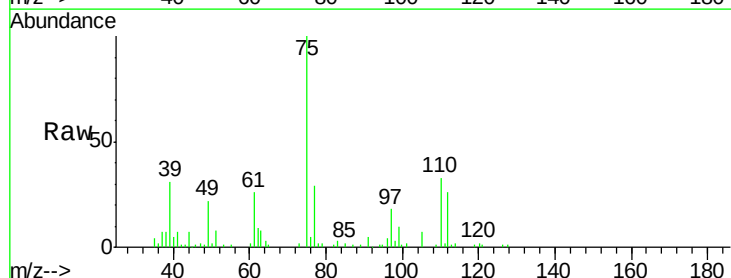
RT: 11.79 min Scan# 1132

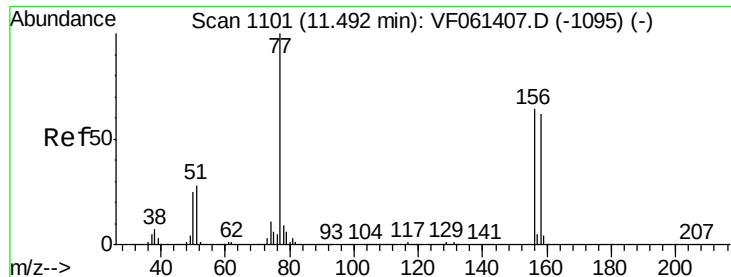
Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion:	75	Resp:	35523
Ion Ratio	Lower	Upper	
75	100		
77	29.2	16.1	48.3





#77

Bromobenzene

Concen: 21.545 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

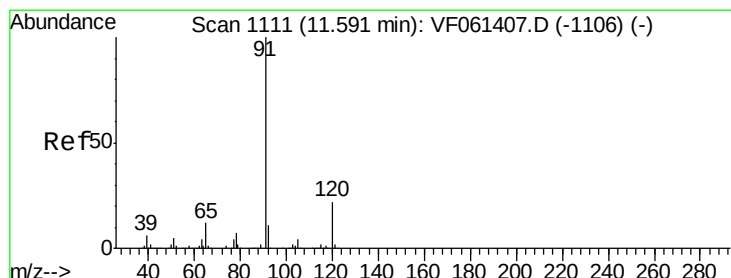
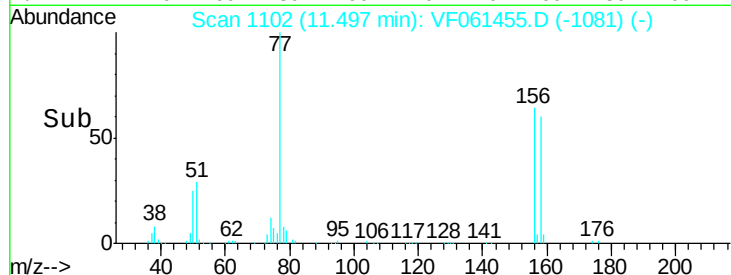
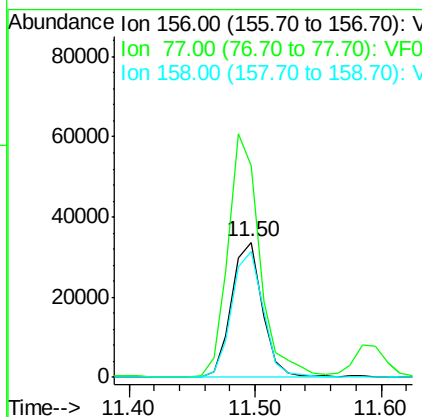
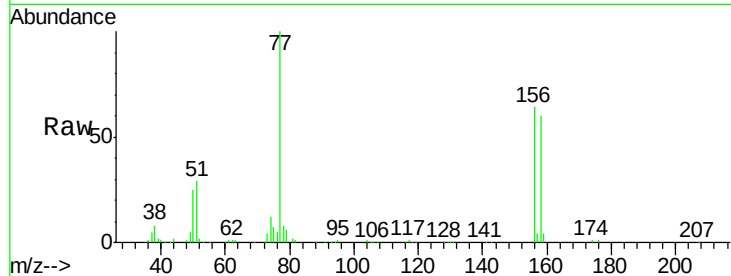
ClientSampleId :

VF0118SBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	156.9	78.3	234.9
158	93.6	48.9	146.7

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#78

n-propylbenzene

Concen: 20.465 ug/l

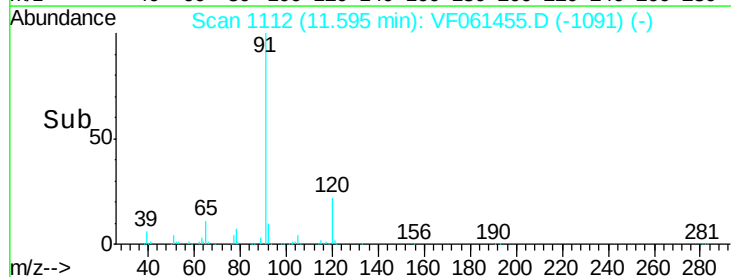
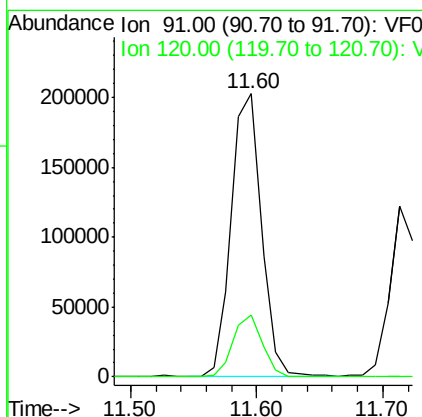
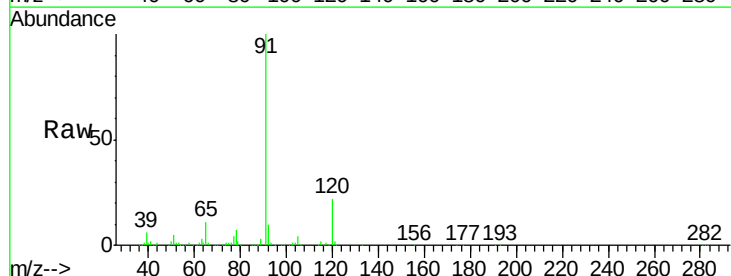
RT: 11.60 min Scan# 1112

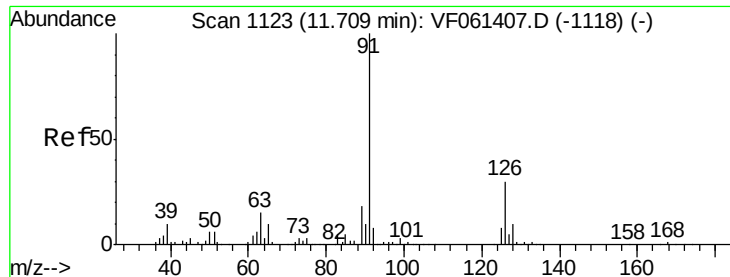
Delta R.T. 0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.9	32.6





#79

2-Chlorotoluene

Concen: 21.476 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion: 91 Resp: 187539

Ion Ratio Lower Upper

91 100

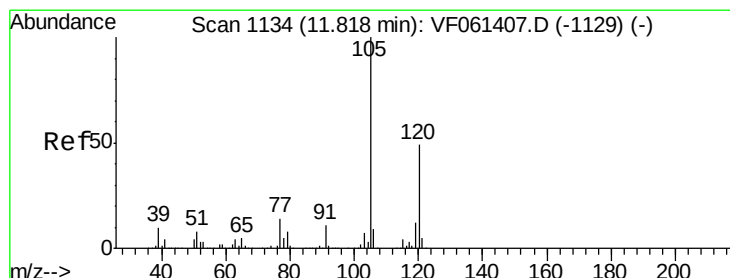
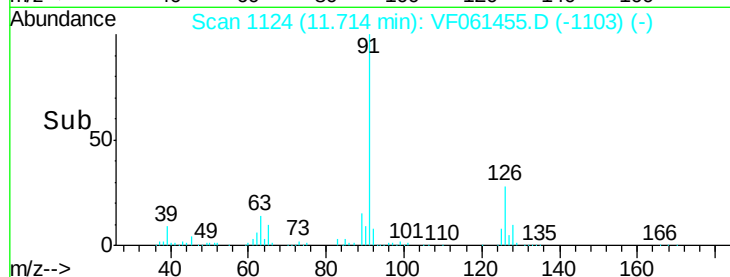
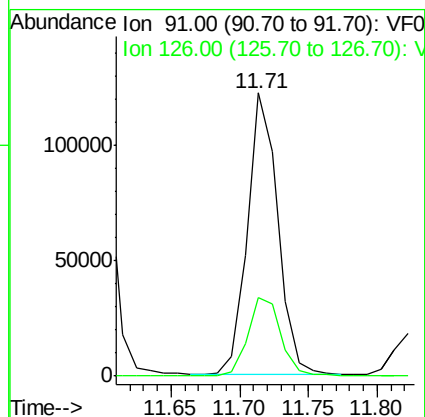
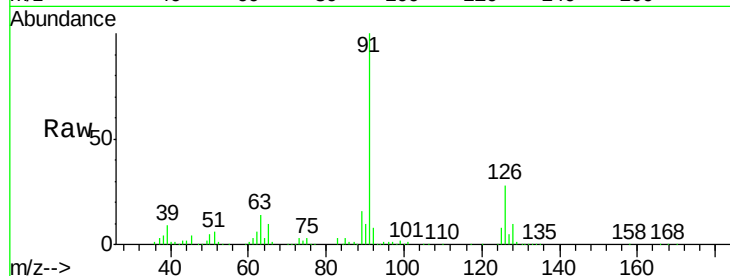
126 27.9 15.0 45.1

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#80

1,3,5-Trimethylbenzene

Concen: 22.917 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF061455.D

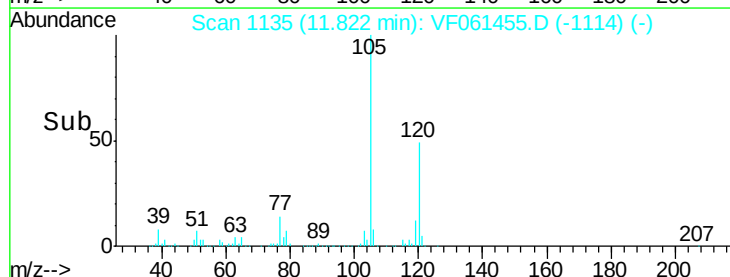
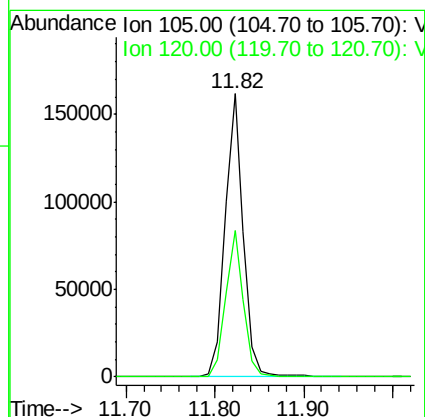
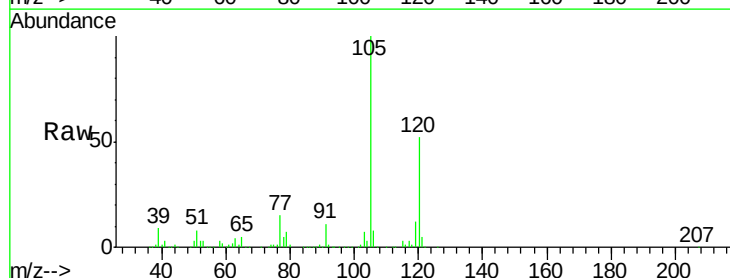
Acq: 18 Jan 2019 13:11

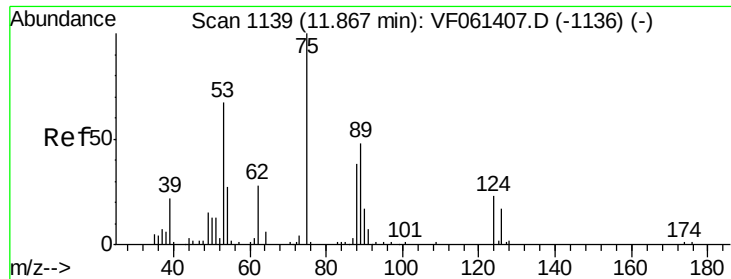
Tgt Ion: 105 Resp: 232759

Ion Ratio Lower Upper

105 100

120 51.8 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 18.383 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBSD01

Tot Ion: 75 Resp: 12874

Ion Ratio Lower Upper

75 100

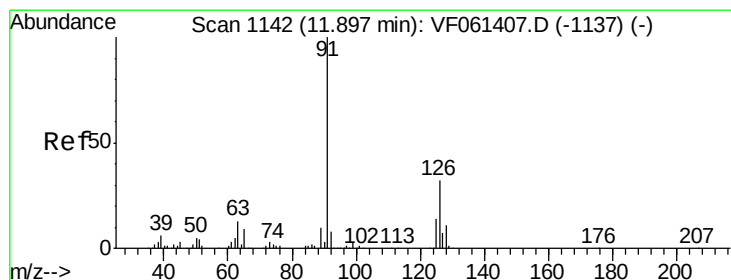
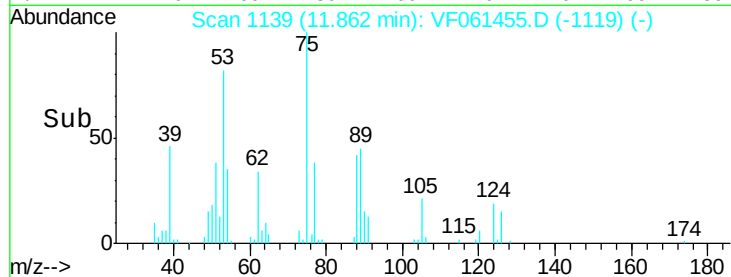
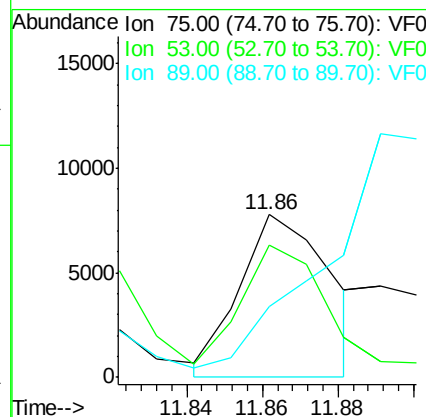
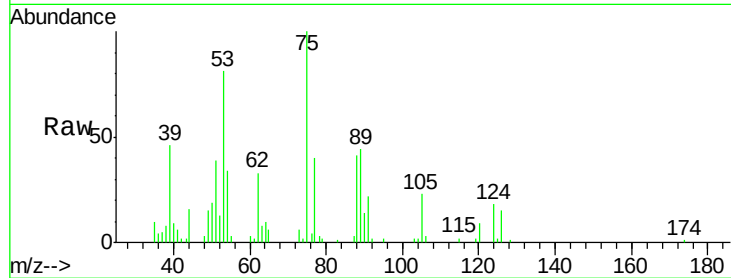
53 81.4 57.8 86.6

89 43.8 40.7 61.1

Manual Integrations
APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#82

4-Chlorotoluene

Concen: 21.531 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF061455.D

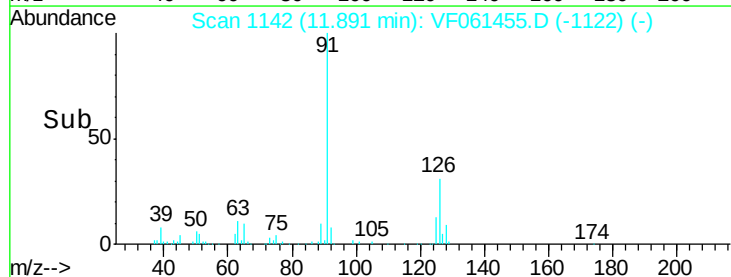
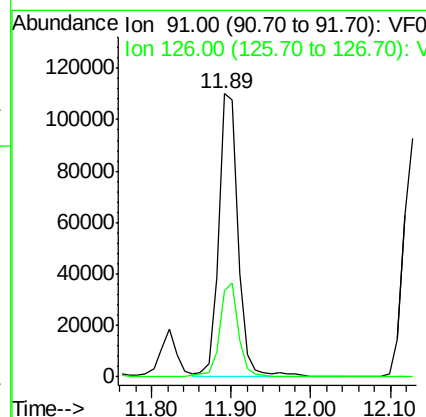
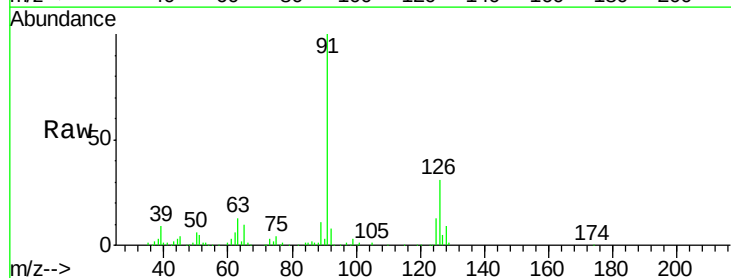
Acq: 18 Jan 2019 13:11

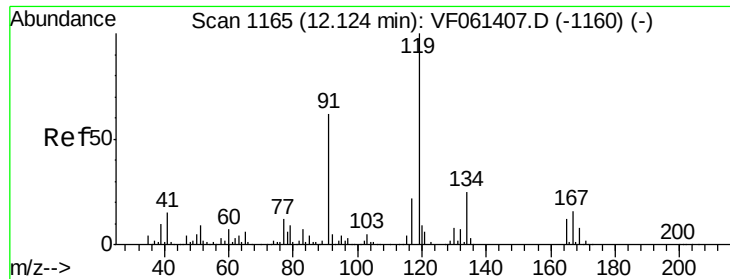
Tgt Ion: 91 Resp: 189730

Ion Ratio Lower Upper

91 100

126 30.5 16.0 47.9





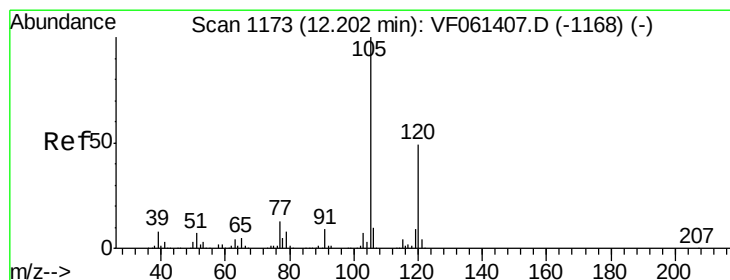
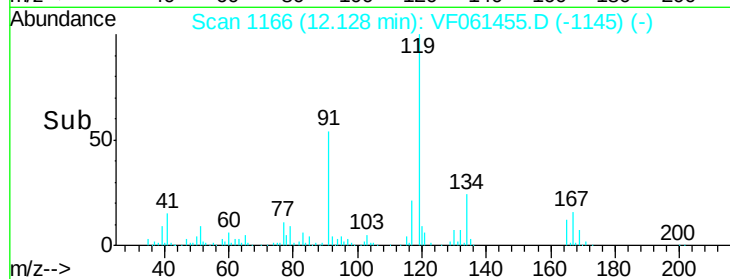
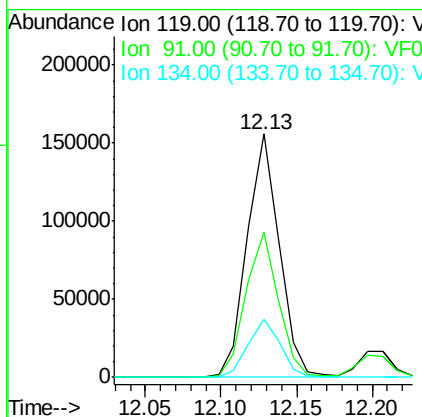
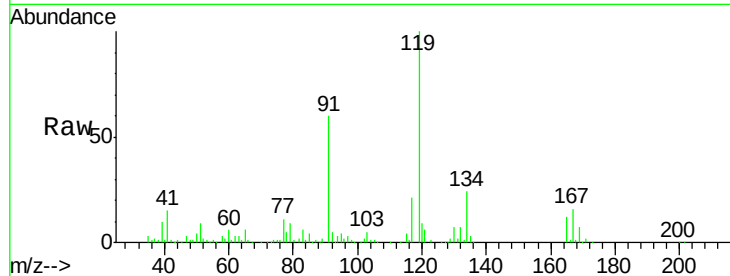
#83
 tert-Butylbenzene
 Concen: 22.191 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	233286		
91	59.6		31.3	93.8
134	23.8		12.4	37.0

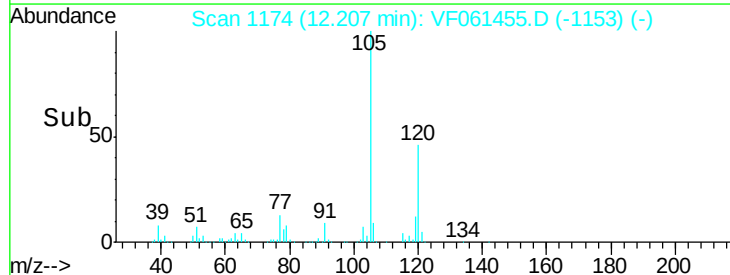
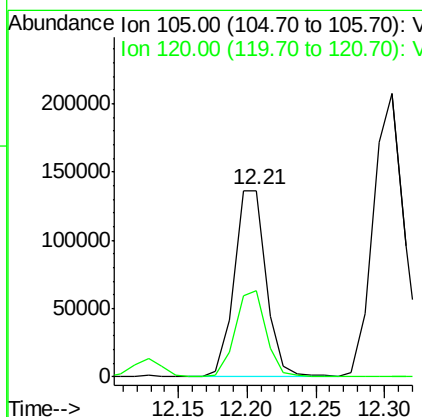
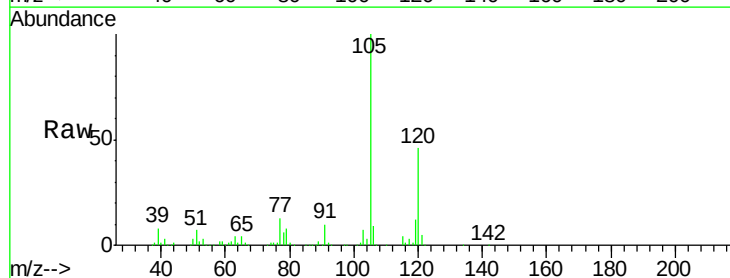
Manual Integrations
 APPROVED

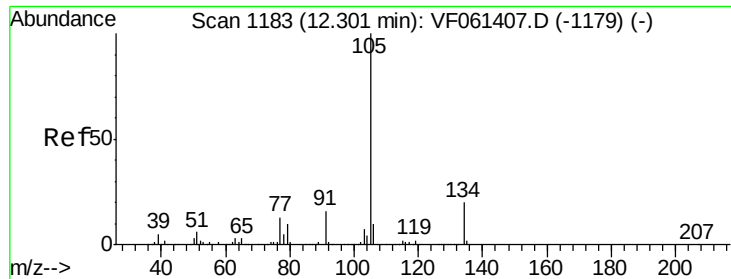
MMDadoda
 1/21/2019 11:11:14 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.209 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	221885		
120	46.1		24.9	74.6





#85

sec-Butylbenzene

Concen: 22.704 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

Instrument :

MSVOA_F

ClientSampleId :

VF0118SBS01

Tot Ion:105 Resp: 324130

Ion Ratio Lower Upper

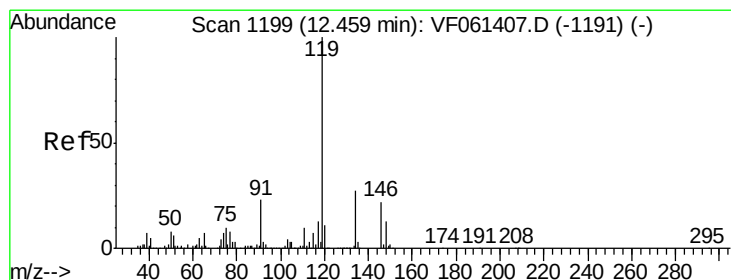
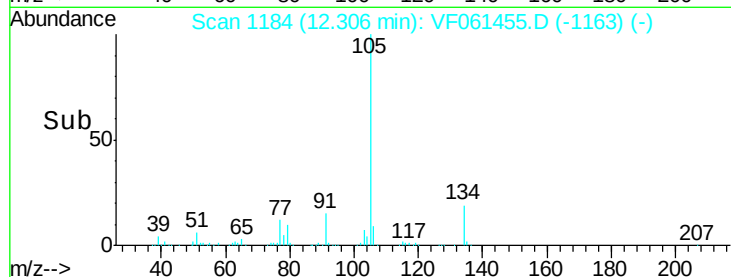
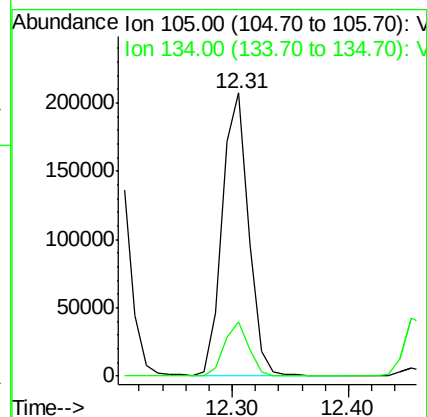
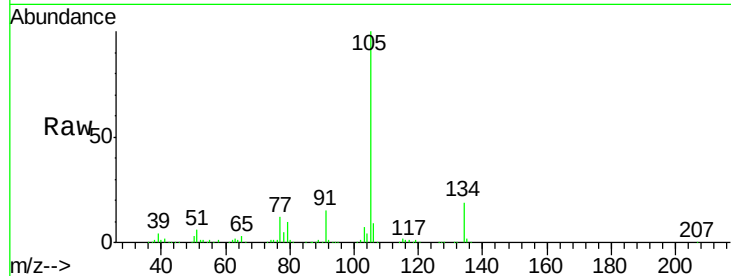
105 100

134 19.2 10.0 30.0

Manual Integrations
APPROVED

MMDadoda

1/21/2019 11:11:14 AM



#86

p-Isopropyltoluene

Concen: 22.906 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061455.D

Acq: 18 Jan 2019 13:11

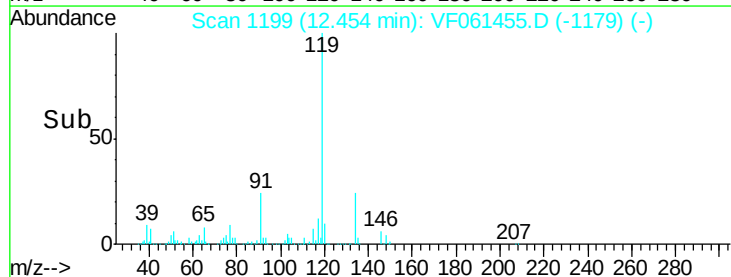
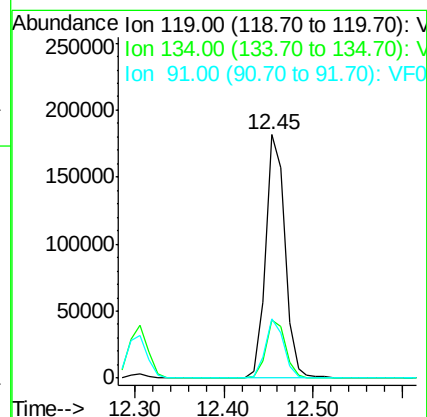
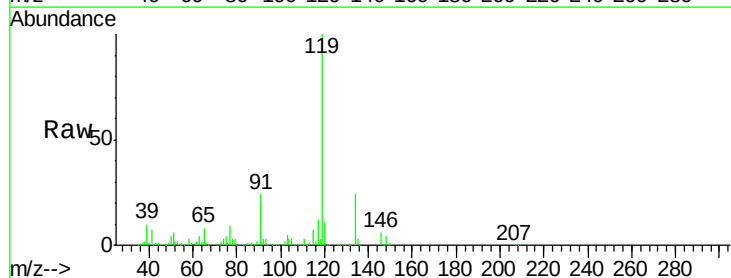
Tgt Ion:119 Resp: 268440

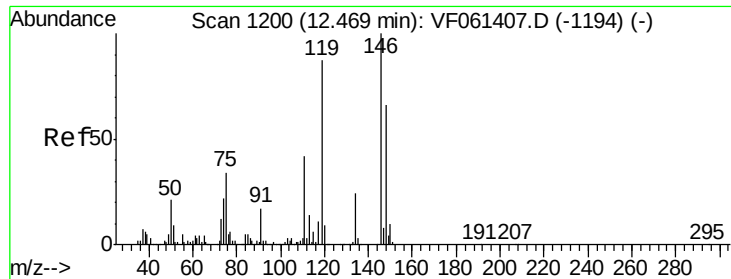
Ion Ratio Lower Upper

119 100

134 23.6 13.4 40.2

91 24.2 11.4 34.2





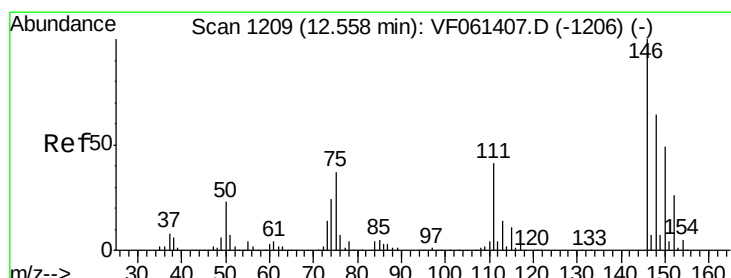
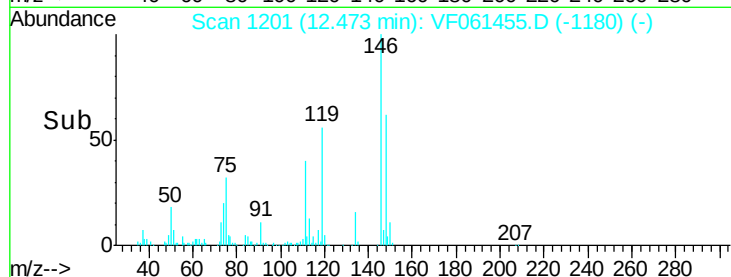
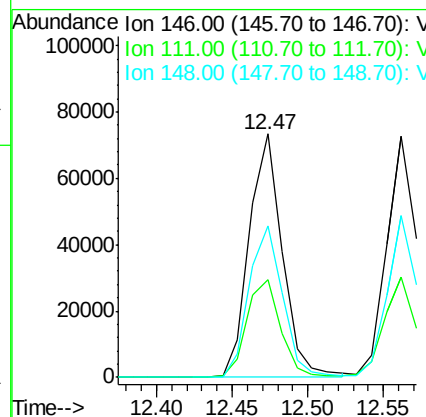
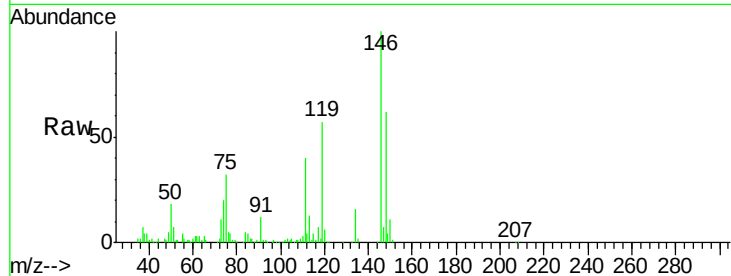
#87
 1,3-Dichlorobenzene
 Concen: 20.117 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.1	63.4
148	62.1	32.9	98.6

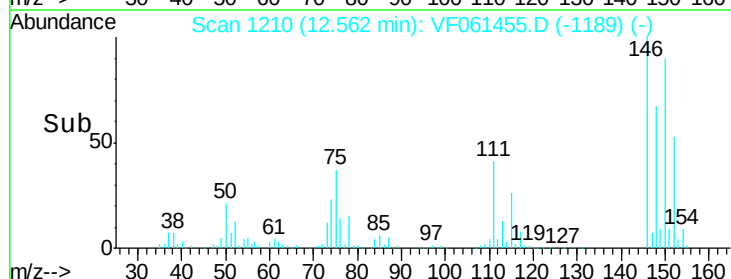
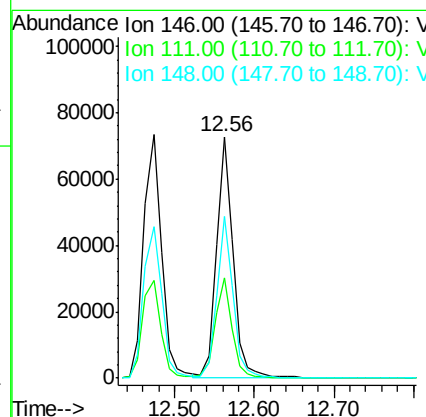
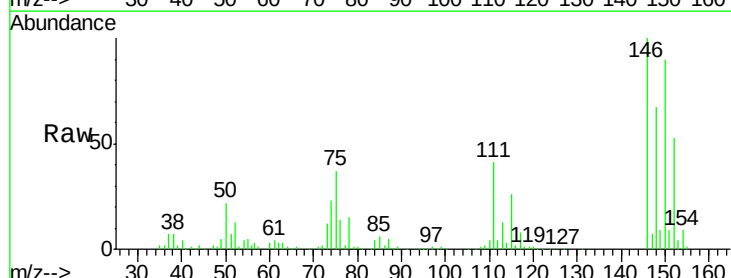
Manual Integrations
 APPROVED

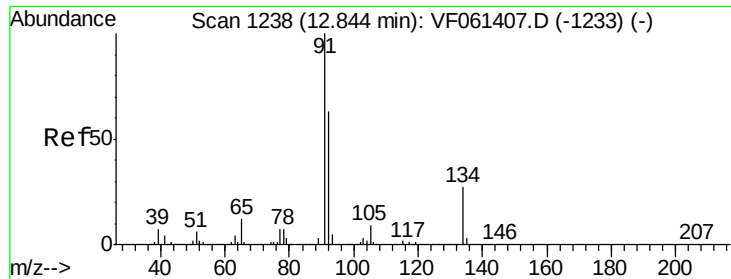
MMDadoda
 1/21/2019 11:11:14 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.272 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.2
148	66.9	32.1	96.5





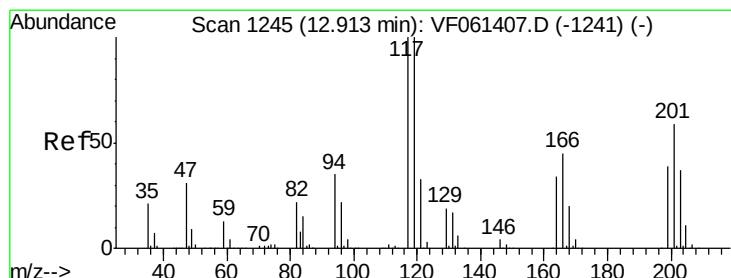
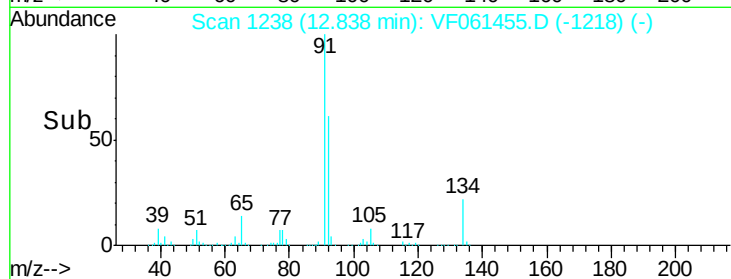
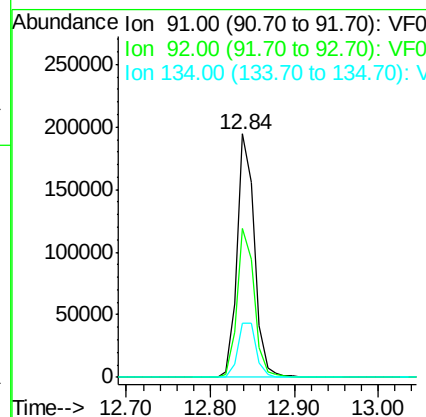
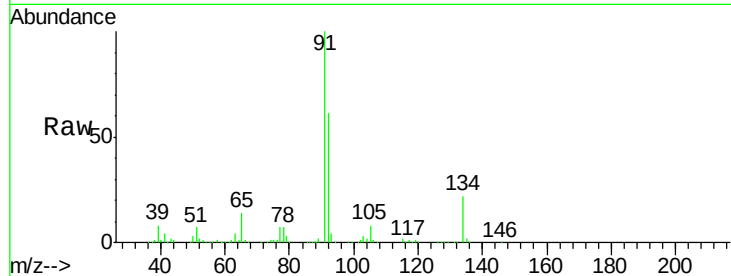
#89
n-Butylbenzene
Concen: 23.025 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.3	31.6	94.7
134	22.2	13.6	40.8

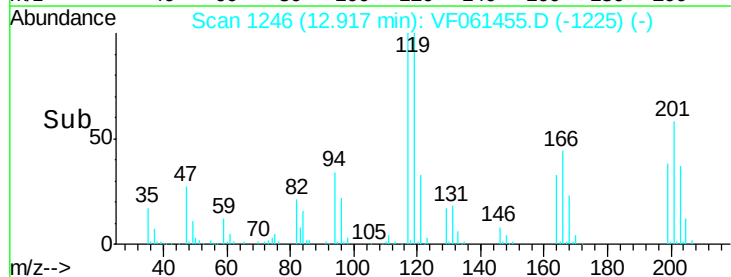
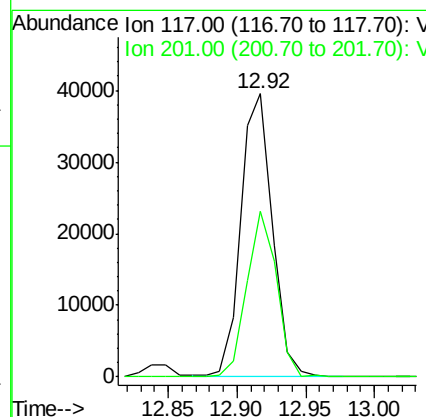
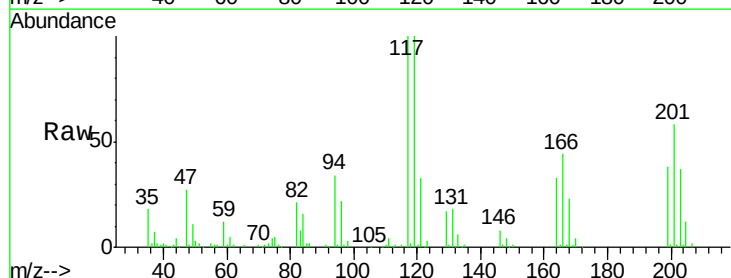
Manual Integrations
APPROVED

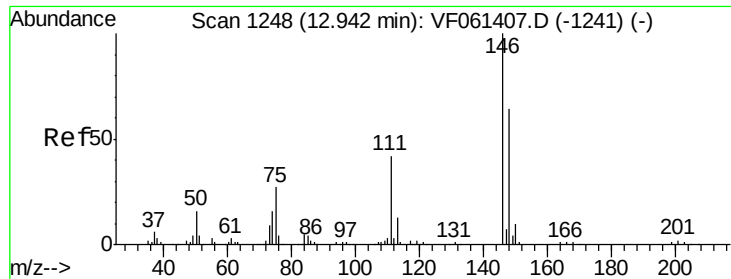
MMDadoda
1/21/2019 11:11:14 AM



#90
Hexachloroethane
Concen: 22.861 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
201	58.4	29.3	87.8





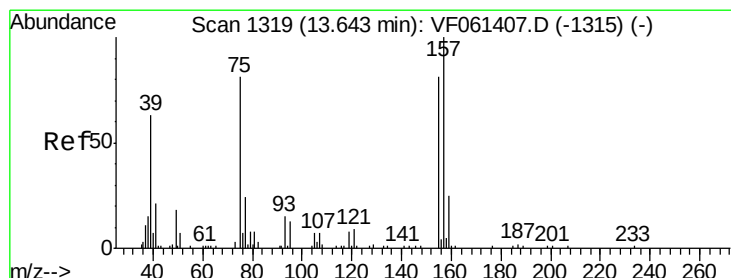
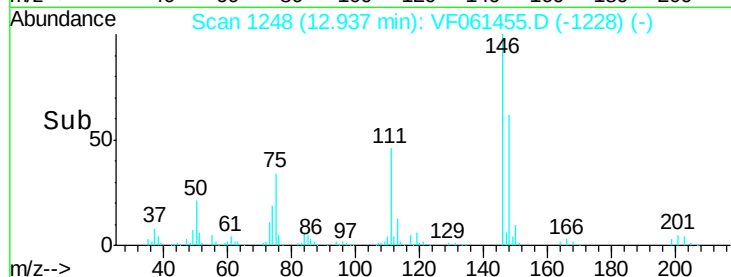
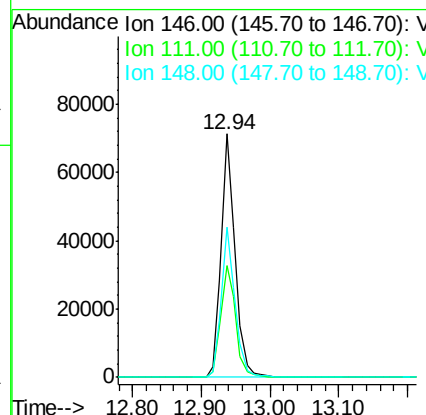
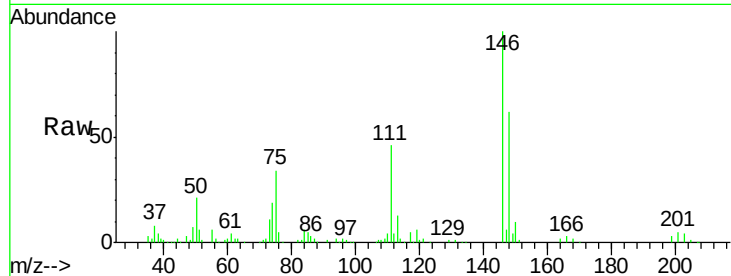
#91
 1,2-Dichlorobenzene
 Concen: 20.188 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	21.1	63.3
148	61.9	31.9	95.7

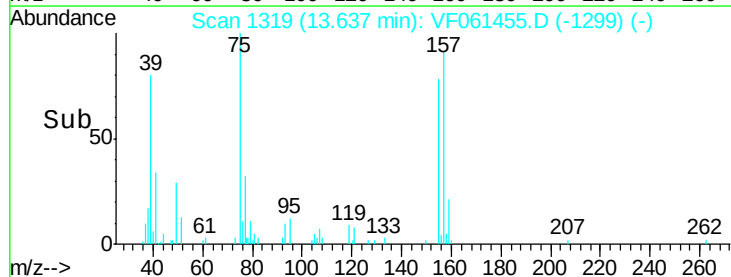
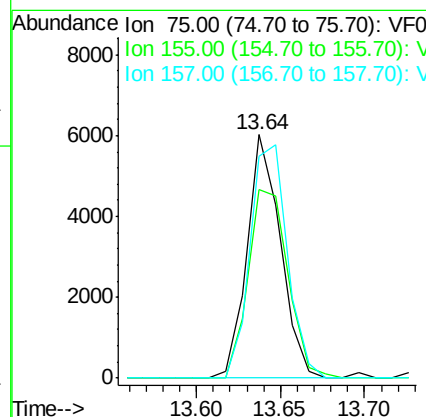
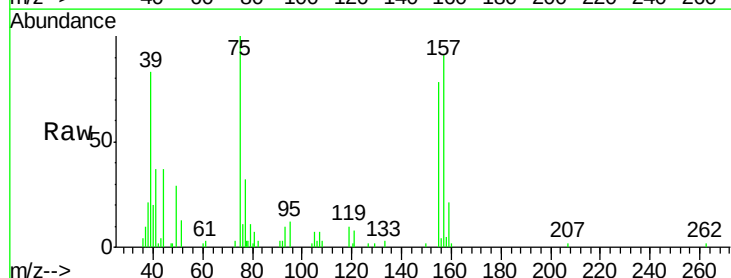
Manual Integrations
 APPROVED

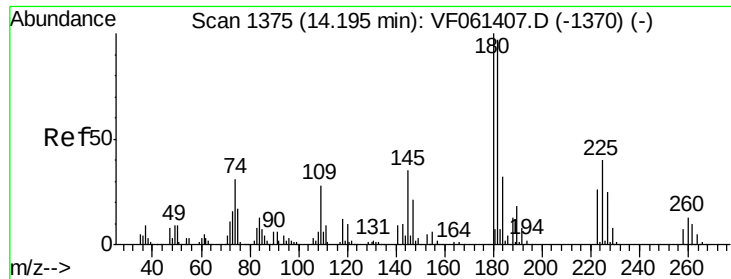
MMDadoda
 1/21/2019 11:11:14 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.766 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.6	49.7	149.1
157	91.3	61.4	184.1





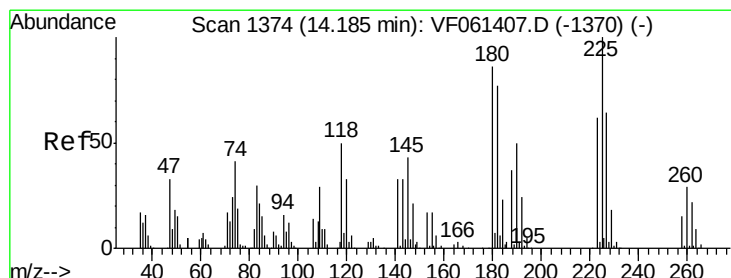
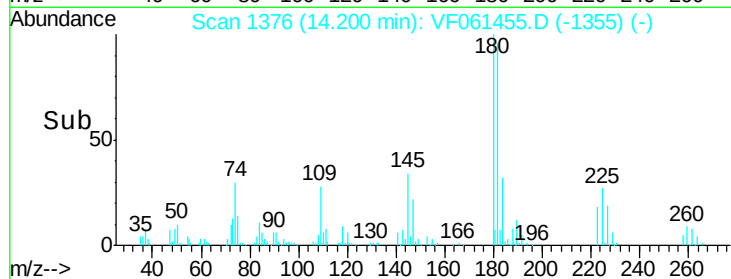
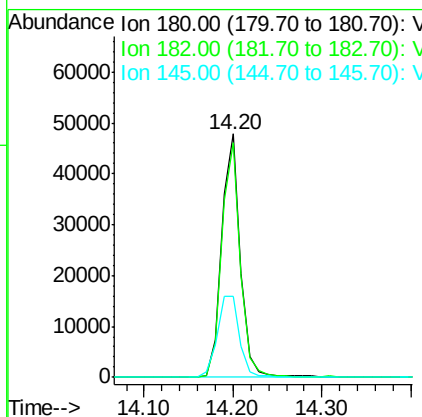
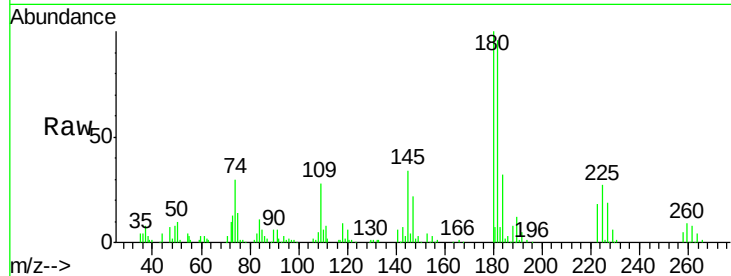
#93
 1,2,4-Trichlorobenzene
 Concen: 20.363 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0118SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.5	145.6
145	33.5	17.5	52.6

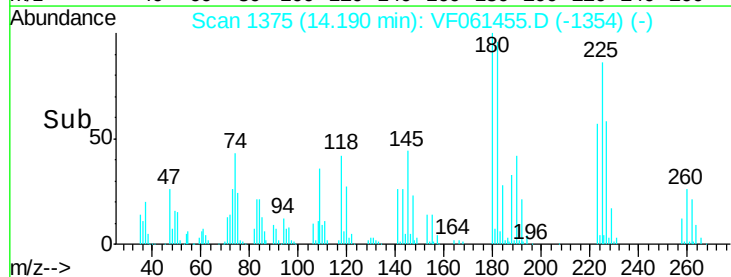
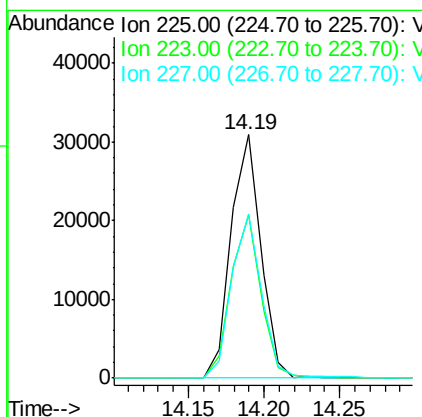
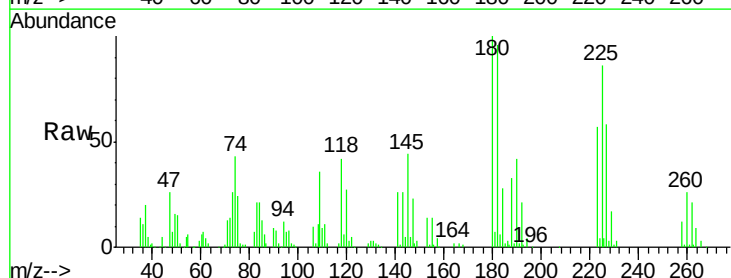
Manual Integrations
 APPROVED

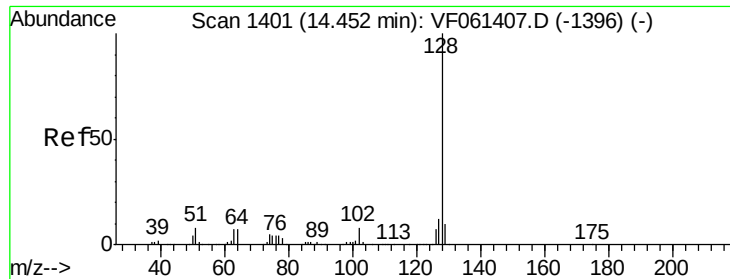
MMDadoda
 1/21/2019 11:11:14 AM



#94
 Hexachlorobutadiene
 Concen: 19.598 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061455.D
 Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	67.1	31.1	93.2
227	67.6	32.2	96.6





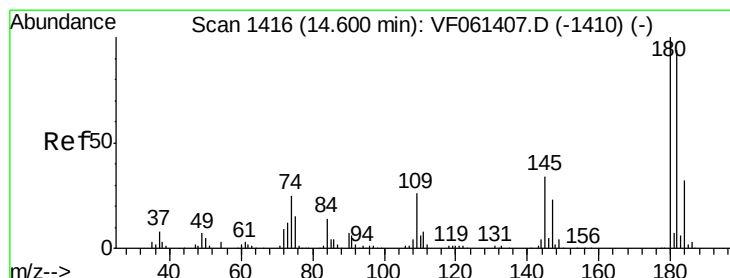
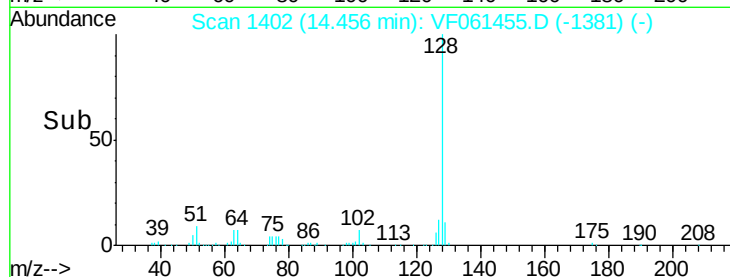
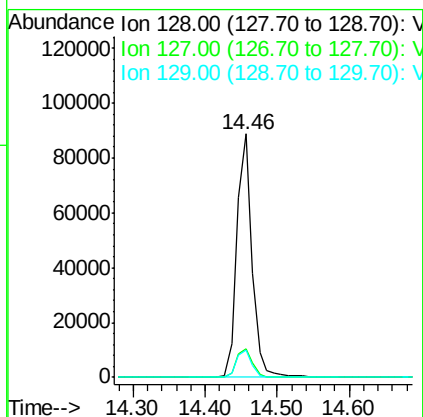
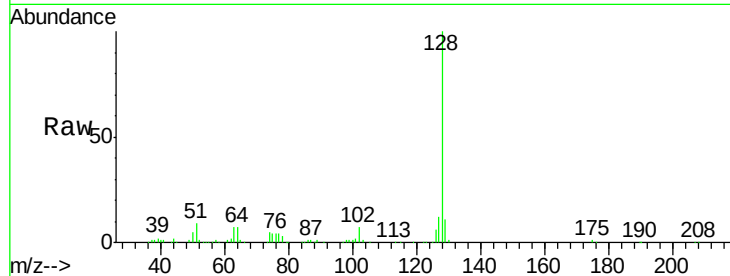
#95
Naphthalene
Concen: 19.908 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Instrument :
MSVOA_F
ClientSampleId :
VF0118SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.5	14.3
129	11.2	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/21/2019 11:11:14 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.932 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. 0.00 min
Lab File: VF061455.D
Acq: 18 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.0	47.0	141.2
145	31.9	17.1	51.2

