

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061545.D
 Acq On : 7 Feb 2019 15:18
 Operator : VA/AP
 Sample : VF0207SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 12:35:57 PM

Quant Time: Feb 09 04:48:13 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	4.86	168	195435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	323071	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	289137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	147485	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	92167	38.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.40%	
35) Dibromofluoromethane	4.10	113	102265	40.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.22%	
50) Toluene-d8	7.55	98	273162	39.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.22%	
62) 4-Bromofluorobenzene	11.40	95	130372	39.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	57257	14.911	ug/l	97
3) Chloromethane	1.09	50	47672	16.931	ug/l	100
4) Vinyl Chloride	1.13	62	41888	16.724	ug/l	99
5) Bromomethane	1.32	94	28127	17.221	ug/l	100
6) Chloroethane	1.39	64	20842	18.780	ug/l	98
7) Trichlorofluoromethane	1.48	101	86259	17.715	ug/l	99
8) Diethyl Ether	1.63	74	12072	19.349	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.82	101	39624	16.936	ug/l	95
10) Methyl Iodide	1.90	142	64444m	17.767	ug/l	
11) Tert butyl alcohol	2.56	59	9348	91.527	ug/l	96
12) 1,1-Dichloroethene	1.79	96	32624	18.769	ug/l	85
13) Acrolein	2.00	56	5710	72.560	ug/l #	62
14) Allyl chloride	2.09	41	51288	25.170	ug/l	95
15) Acrylonitrile	2.94	53	25213	96.374	ug/l	97
16) Acetone	2.23	43	53328	110.169	ug/l	100
17) Carbon Disulfide	1.80	76	89421	16.499	ug/l	96
18) Methyl Acetate	2.34	43	17218	17.936	ug/l #	85
19) Methyl tert-butyl Ether	2.43	73	67302	17.272	ug/l	96
20) Methylene Chloride	2.18	84	35068m	20.298	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	33616	17.578	ug/l #	95
22) Diisopropyl ether	2.79	45	113707	18.382	ug/l	99
23) Vinyl Acetate	3.19	43	274181	102.681	ug/l	98
24) 1,1-Dichloroethane	2.87	63	69761	17.969	ug/l	98
25) 2-Butanone	4.33	43	81779	101.593	ug/l	92
26) 2,2-Dichloropropane	3.59	77	45272	18.980	ug/l	92
27) cis-1,2-Dichloroethene	3.47	96	49275	17.455	ug/l	95
28) Bromochloromethane	3.71	49	30631	17.553	ug/l #	91
29) Tetrahydrofuran	4.07	42	30372	87.625	ug/l	95
30) Chloroform	3.85	83	100604	19.201	ug/l	97
31) Cyclohexane	3.69	56	70295m	18.126	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	71162	18.524	ug/l	95
36) 1,1-Dichloropropene	4.27	75	73809	19.704	ug/l	97
37) Ethyl Acetate	4.11	43	29057	19.406	ug/l #	73
38) Carbon Tetrachloride	3.98	117	64103	19.575	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061545.D
 Acq On : 7 Feb 2019 15:18
 Operator : VA/AP
 Sample : VF0207SBS01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0207SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 12:35:57 PM

Quant Time: Feb 09 04:48:13 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	5.44	83	73544	18.117	ug/l	98
40) Benzene	4.63	78	163037	19.560	ug/l	99
41) Methacrylonitrile	4.74	41	15925	19.988	ug/l	94
42) 1,2-Dichloroethane	4.93	62	54869	18.473	ug/l	97
43) Isopropyl Acetate	6.95	43	37643	20.031	ug/l #	98
44) Trichloroethene	5.49	130	51409	20.106	ug/l	96
45) 1,2-Dichloropropane	6.23	63	41040	18.760	ug/l	95
46) Dibromomethane	6.09	93	27680	19.029	ug/l	96
47) Bromodichloromethane	6.38	83	69503	19.312	ug/l	97
48) Methyl methacrylate	6.71	41	23090	18.297	ug/l	99
49) 1,4-Dioxane	6.70	88	3419	342.498	ug/l #	85
51) 4-Methyl-2-Pentanone	8.26	43	131440	95.139	ug/l	99
52) Toluene	7.61	92	101536	18.498	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	58384	20.430	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	71125	19.911	ug/l	96
55) 1,1,2-Trichloroethane	8.48	97	30350	19.471	ug/l	96
56) Ethyl methacrylate	8.61	69	31930	17.607	ug/l #	79
57) 1,3-Dichloropropane	8.85	76	52141	17.847	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.29	63	25309	145.959	ug/l	98
59) 2-Hexanone	9.49	43	101238	105.086	ug/l	94
60) Dibromochloromethane	8.71	129	42628	18.707	ug/l	96
61) 1,2-Dibromoethane	8.99	107	33065	18.530	ug/l	100
64) Tetrachloroethene	8.15	164	41783	19.216	ug/l	95
65) Chlorobenzene	9.79	112	112972	19.214	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	48740	20.809	ug/l	97
67) Ethyl Benzene	9.89	91	219227	20.407	ug/l	98
68) m/p-Xylenes	10.12	106	144835	37.485	ug/l	91
69) o-Xylene	10.70	106	88883	21.225	ug/l	96
70) Styrene	10.78	104	117654	20.525	ug/l	98
71) Bromoform	10.77	173	22664	21.535	ug/l #	96
73) Isopropylbenzene	11.12	105	258668	21.564	ug/l	99
74) N-amyl acetate	11.36	43	65677	23.155	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	43838	20.515	ug/l	100
76) 1,2,3-Trichloropropane	11.79	75	29065	18.929	ug/l	91
77) Bromobenzene	11.49	156	51189	20.207	ug/l	99
78) n-propylbenzene	11.59	91	306660	19.606	ug/l	100
79) 2-Chlorotoluene	11.72	91	173835	20.887	ug/l	93
80) 1,3,5-Trimethylbenzene	11.82	105	199110	20.569	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	14529m	21.767	ug/l	
82) 4-Chlorotoluene	11.90	91	167687	19.966	ug/l	97
83) tert-Butylbenzene	12.12	119	214599	21.418	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	203309	20.390	ug/l	97
85) sec-Butylbenzene	12.30	105	280193	20.593	ug/l	94
86) p-Isopropyltoluene	12.46	119	237124	21.230	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	103246	19.384	ug/l	95
88) 1,4-Dichlorobenzene	12.56	146	98708	20.620	ug/l	98
89) n-Butylbenzene	12.84	91	248702	21.590	ug/l	95
90) Hexachloroethane	12.91	117	56905	21.613	ug/l	89
91) 1,2-Dichlorobenzene	12.94	146	94949	20.036	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7680	20.263	ug/l	82

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF020719\
Data File : VF061545.D
Acq On : 7 Feb 2019 15:18
Operator : VA/AP
Sample : VF0207SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBSD01

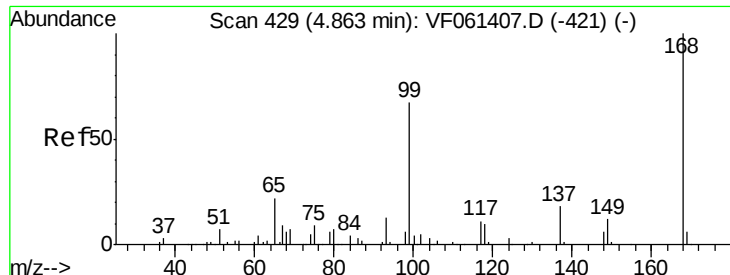
Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM

Quant Time: Feb 09 04:48:13 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	67968	20.474	ug/l	97
94) Hexachlorobutadiene	14.18	225	29263	14.205	ug/l	98
95) Naphthalene	14.45	128	118879	18.848	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	57307	18.648	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion:168 Resp: 195435

Ion Ratio Lower Upper

168 100

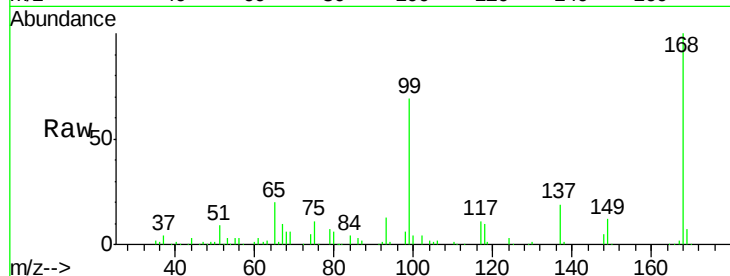
99 69.0 53.5 80.3

Manual Integrations

APPROVED

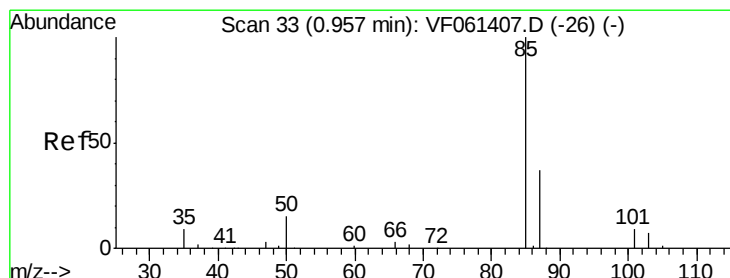
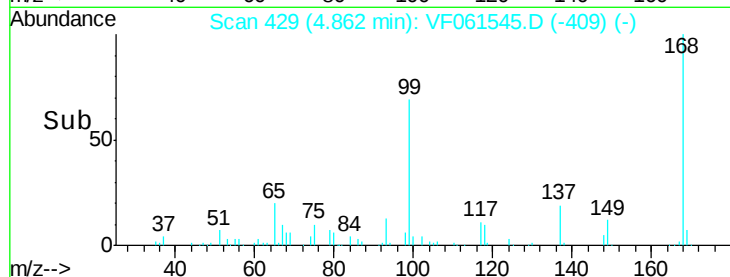
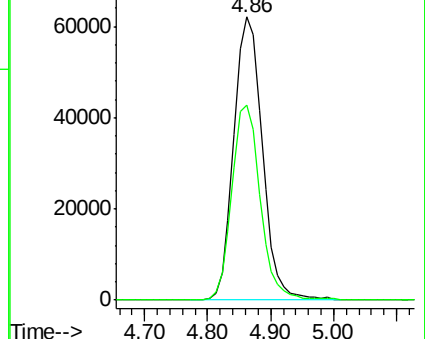
MMDadoda

2/11/2019 12:35:57 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 14.911 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061545.D

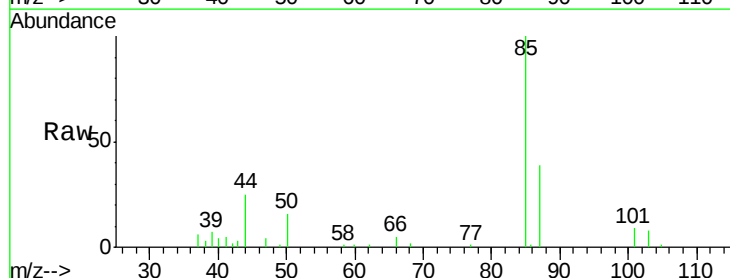
Acq: 7 Feb 2019 15:18

Tgt Ion: 85 Resp: 57257

Ion Ratio Lower Upper

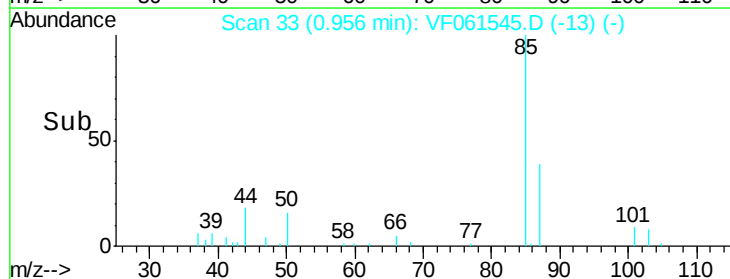
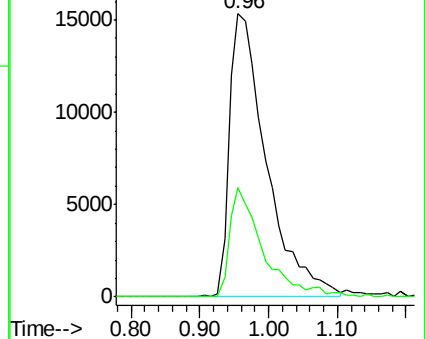
85 100

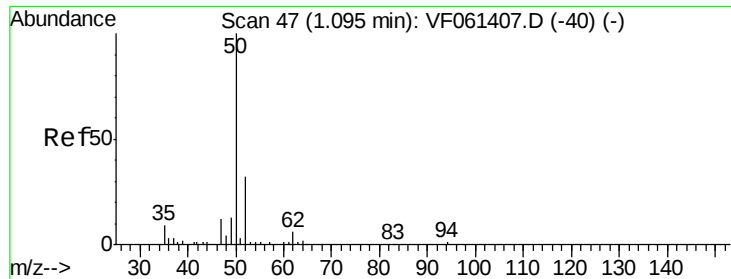
87 38.5 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 16.931 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion: 50 Resp: 47672

Ion Ratio Lower Upper

50 100

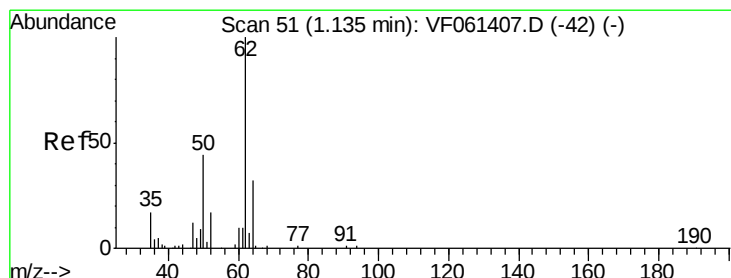
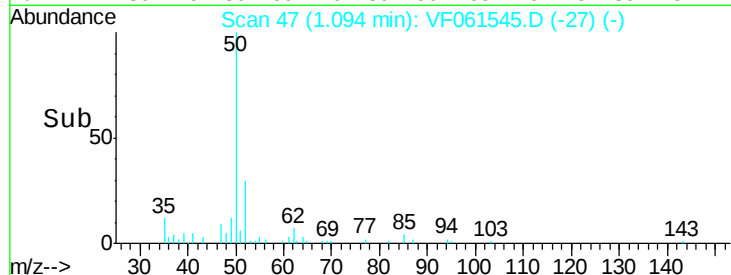
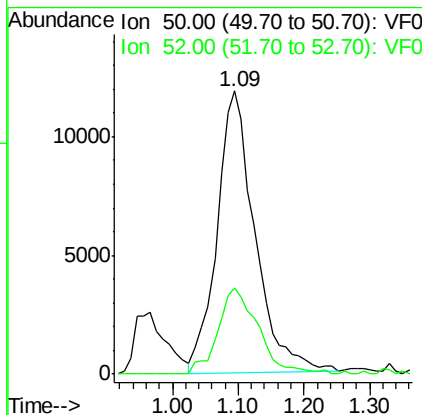
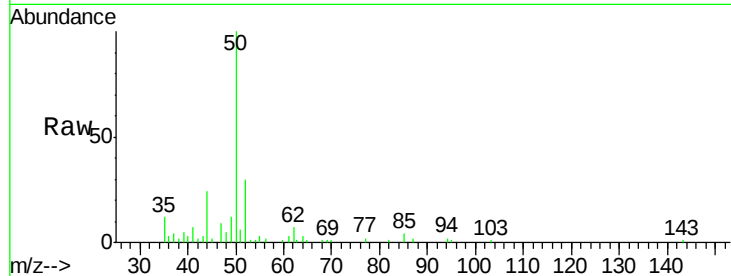
52 30.5 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#4

Vinyl Chloride

Concen: 16.724 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061545.D

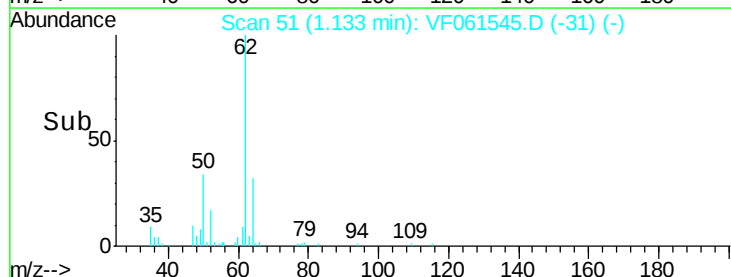
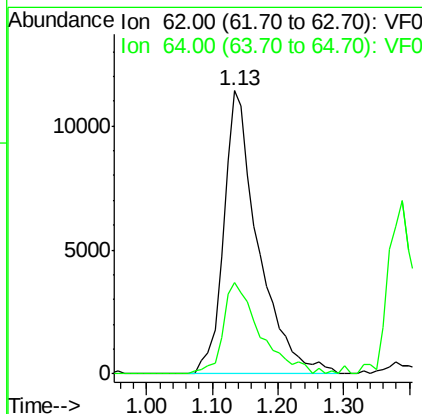
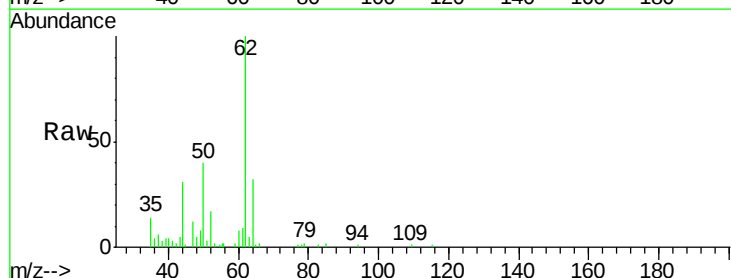
Acq: 7 Feb 2019 15:18

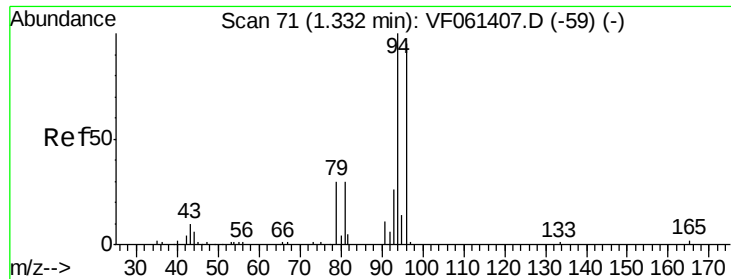
Tgt Ion: 62 Resp: 41888

Ion Ratio Lower Upper

62 100

64 32.4 25.6 38.4





#5

Bromomethane

Concen: 17.221 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion: 94 Resp: 28127

Ion Ratio Lower Upper

94 100

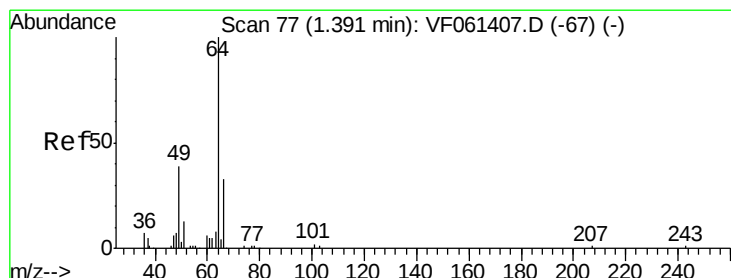
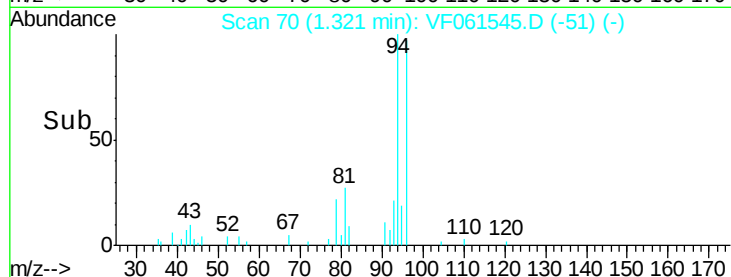
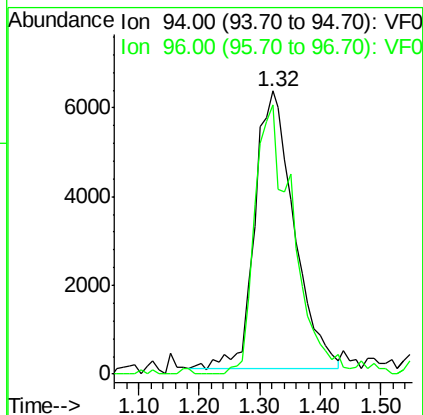
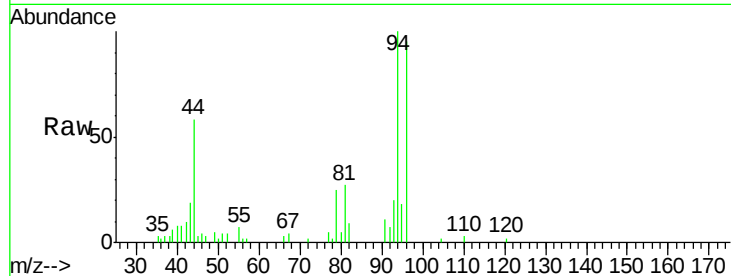
96 95.1 76.0 114.0

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#6

Chloroethane

Concen: 18.780 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061545.D

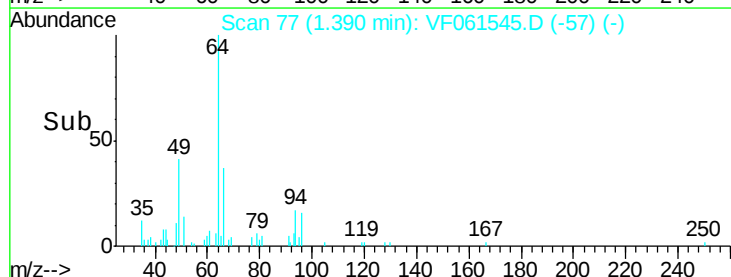
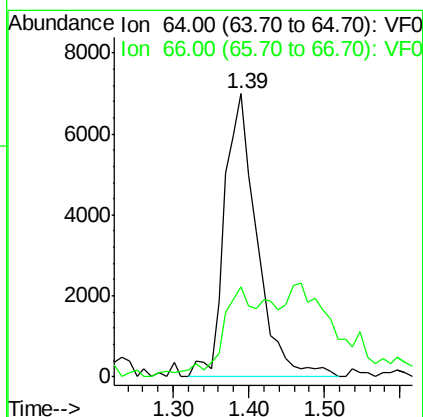
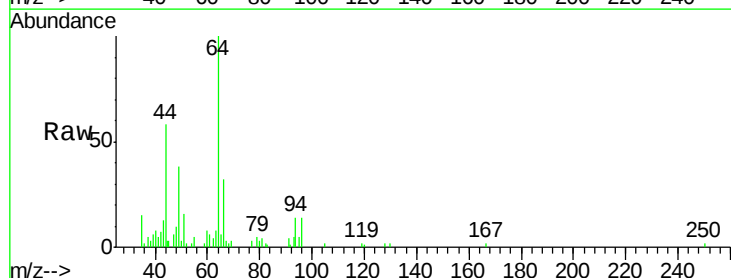
Acq: 7 Feb 2019 15:18

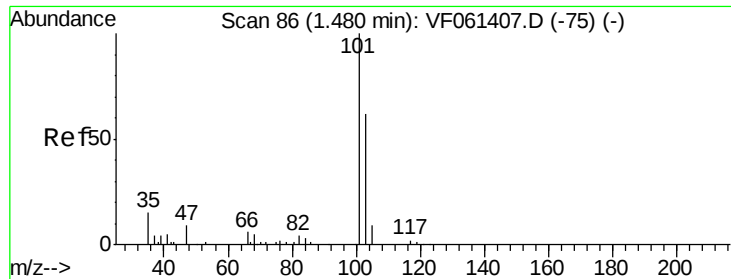
Tgt Ion: 64 Resp: 20842

Ion Ratio Lower Upper

64 100

66 31.9 26.6 40.0





#7

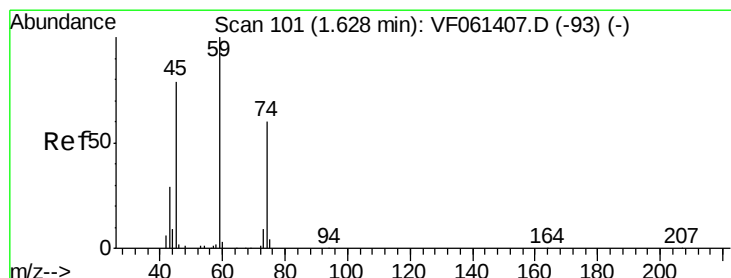
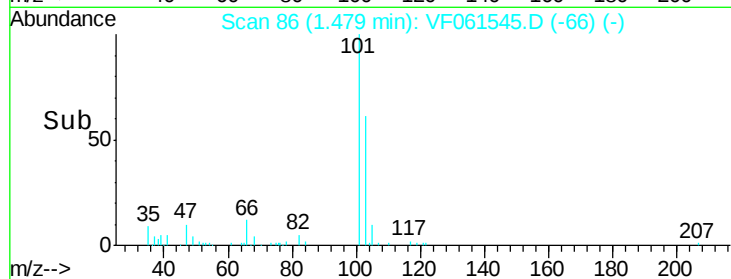
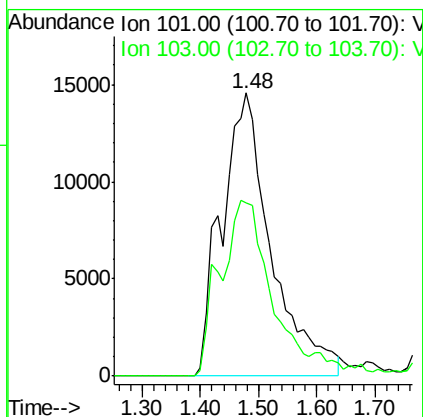
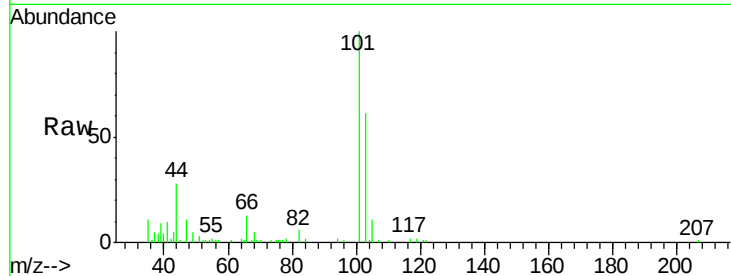
Trichlorofluoromethane
Concen: 17.715 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	49.7	74.5

Manual Integrations
APPROVED

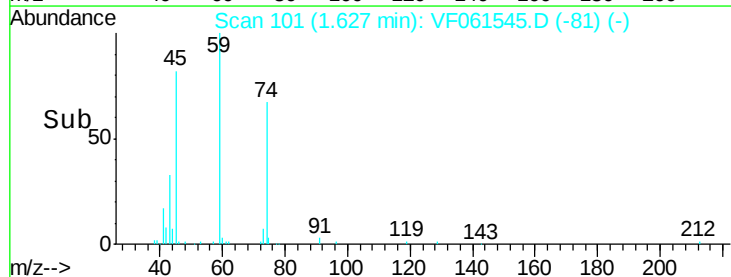
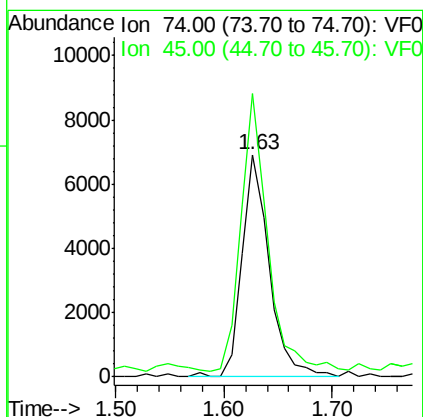
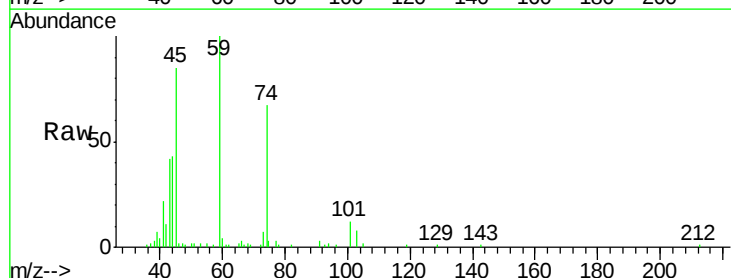
MMDadoda
2/11/2019 12:35:57 PM

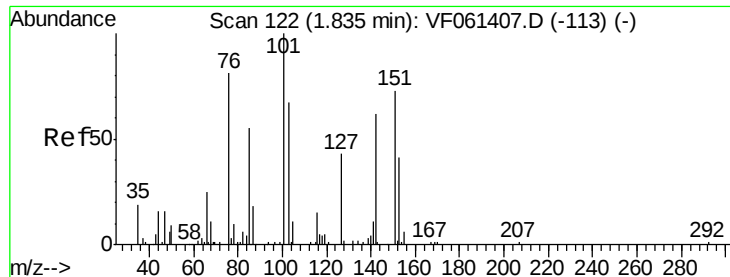


#8

Diethyl Ether
Concen: 19.349 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.3	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.936 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

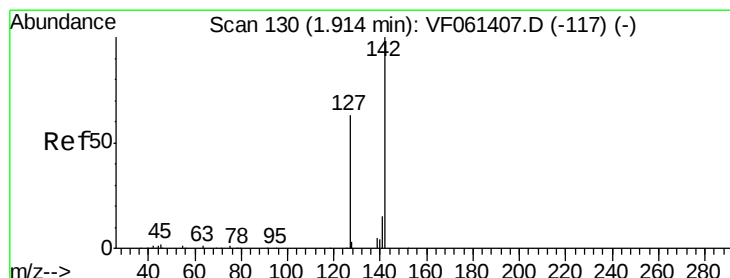
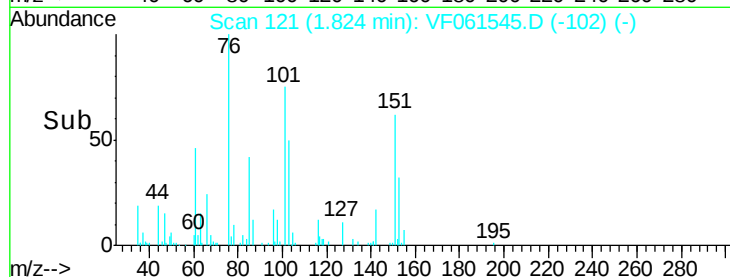
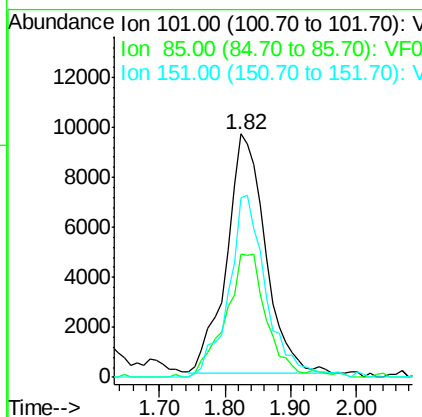
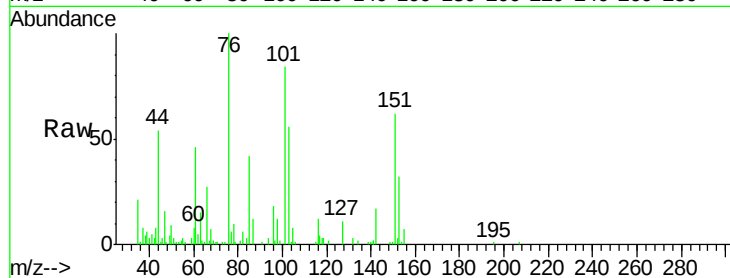
ClientSampleId :

VF0207SBS01

Tot Ion:	101	Resp:	39624
Ion Ratio	Lower	Upper	
101	100		
85	50.5	41.9	62.9
151	74.0	55.1	82.7

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#10

Methyl Iodide

Concen: 17.767 ug/l m

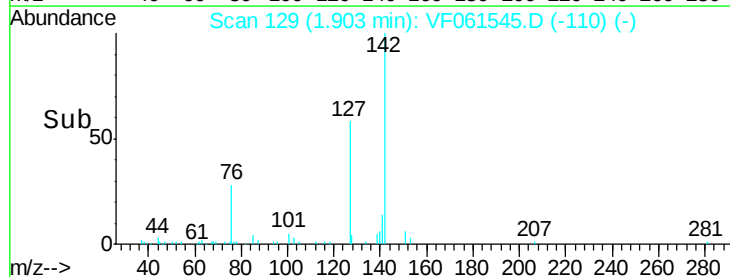
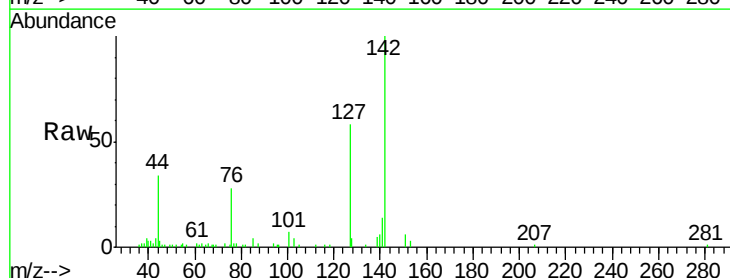
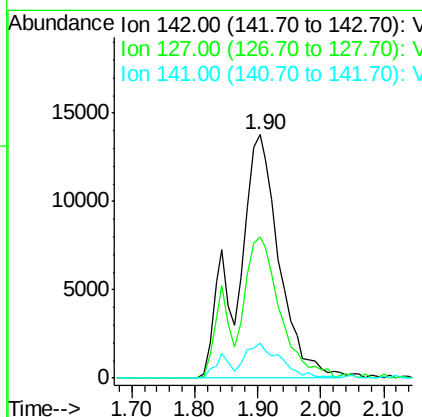
RT: 1.90 min Scan# 129

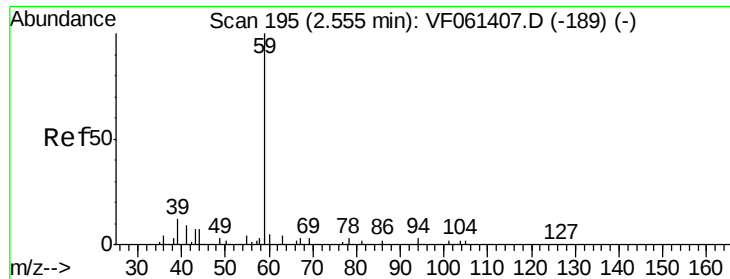
Delta R.T. -0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	142	Resp:	64444
Ion Ratio	Lower	Upper	
142	100		
127	58.0	50.7	76.1
141	14.3	11.8	17.6





#11

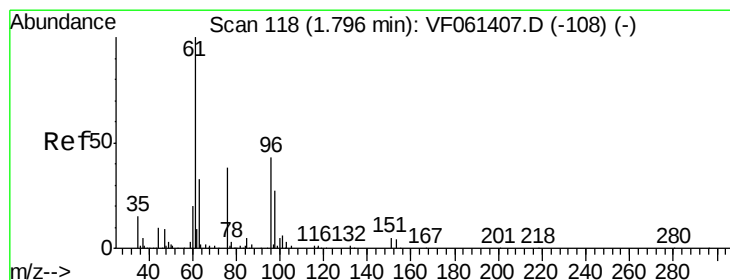
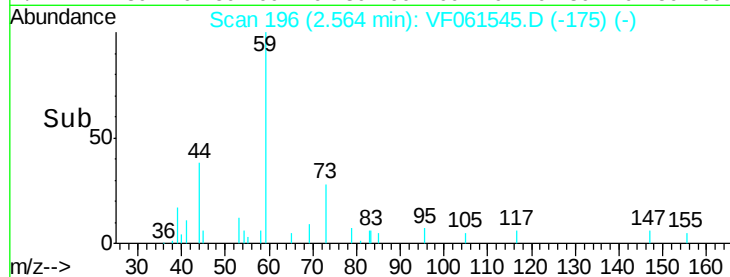
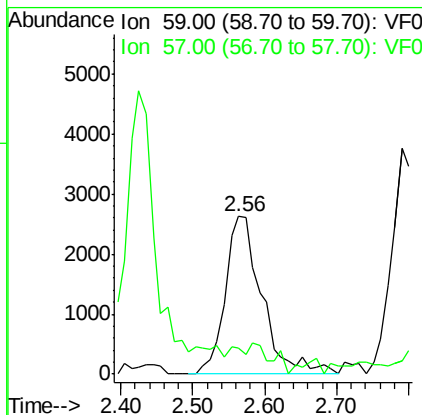
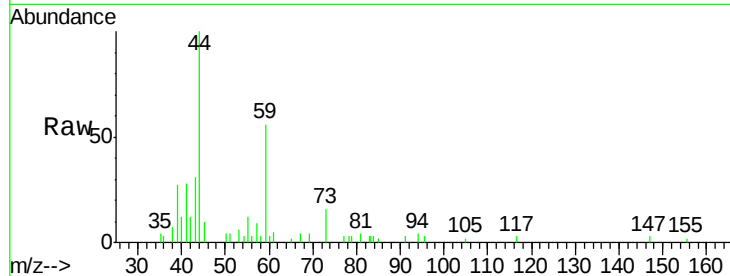
Tert butyl alcohol
Concen: 91.527 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	16.6	11.9	17.9

Manual Integrations
APPROVED

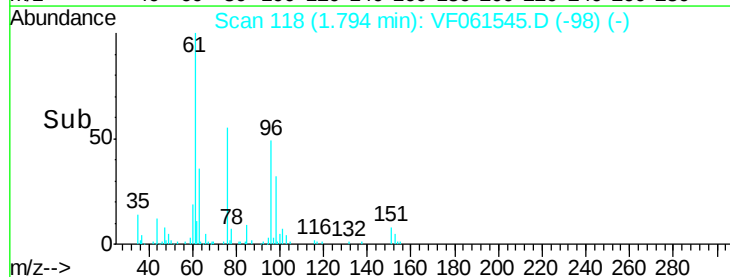
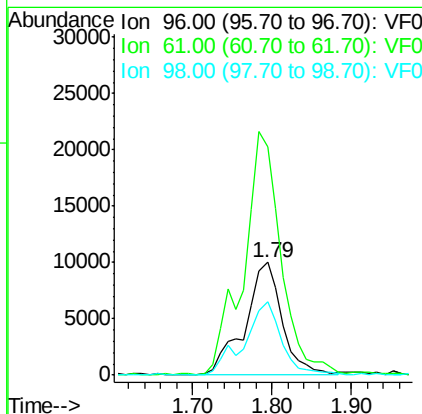
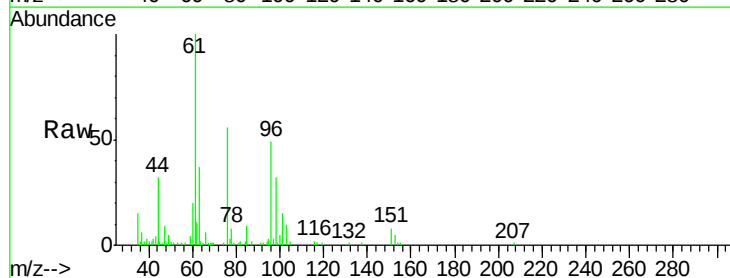
MMDadoda
2/11/2019 12:35:57 PM

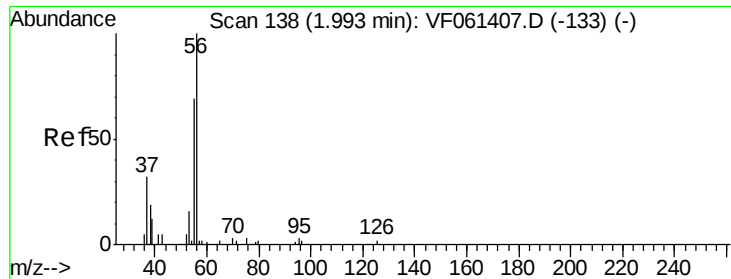


#12

1,1-Dichloroethene
Concen: 18.769 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	202.7	186.9	280.3
98	65.1	53.0	79.4





#13

Acrolein

Concen: 72.560 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion: 56 Resp: 5710

Ion Ratio Lower Upper

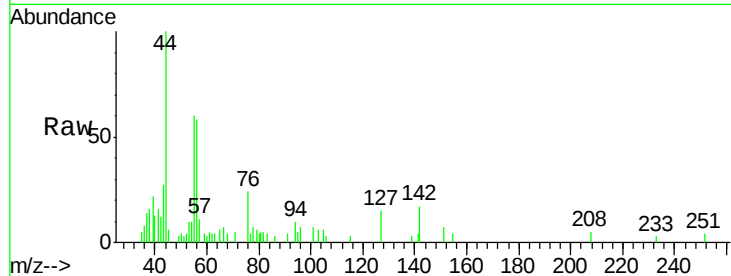
56 100

55 103.5 57.5 86.3#

Manual Integrations
APPROVED

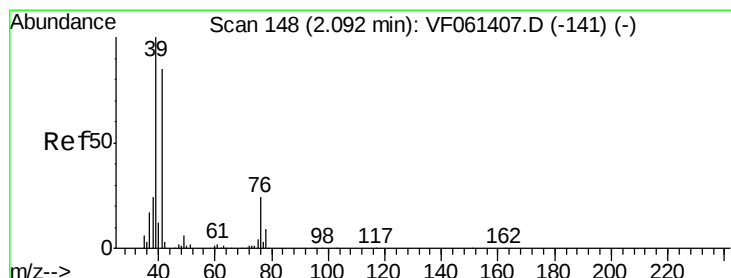
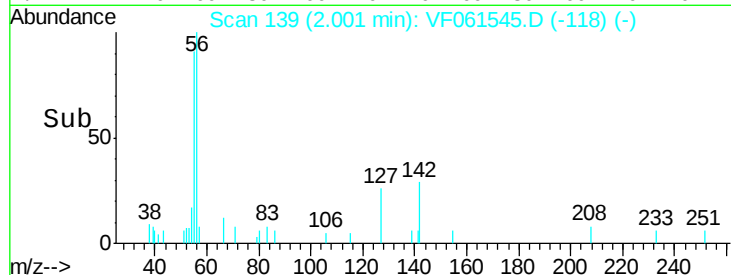
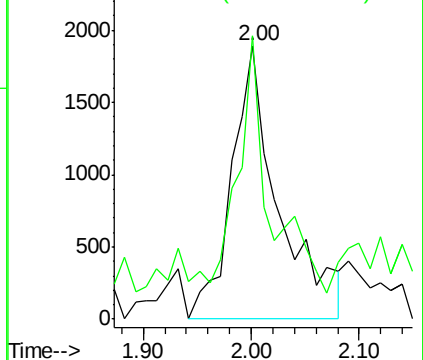
MMDadoda

2/11/2019 12:35:57 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 25.170 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

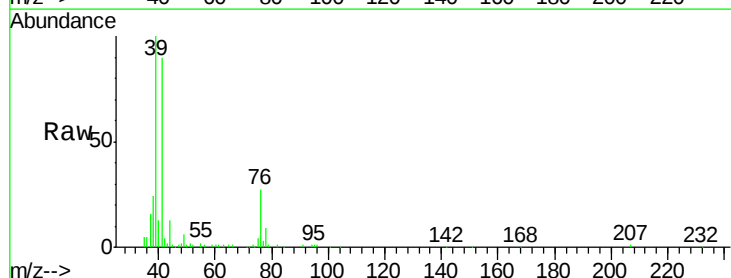
Tgt Ion: 41 Resp: 51288

Ion Ratio Lower Upper

41 100

39 111.7 94.6 141.8

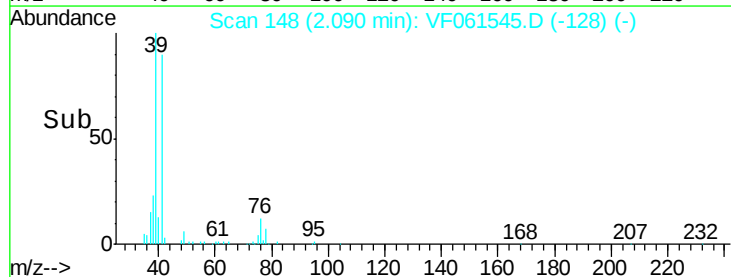
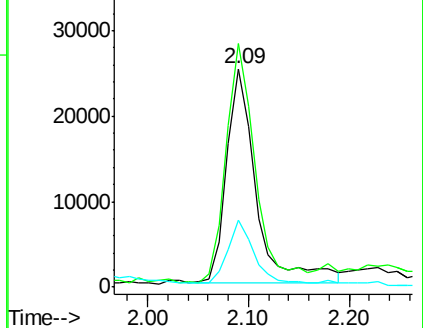
76 30.4 25.9 38.9

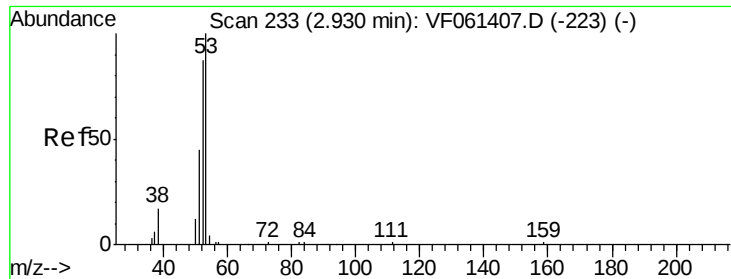


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 96.374 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

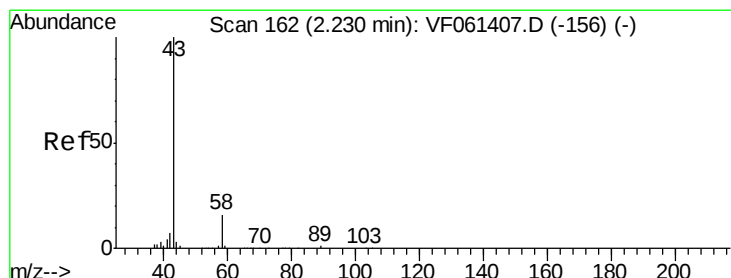
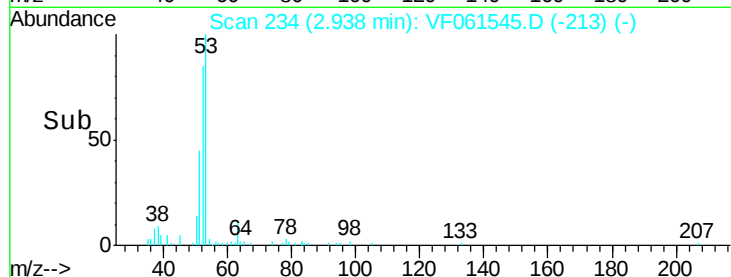
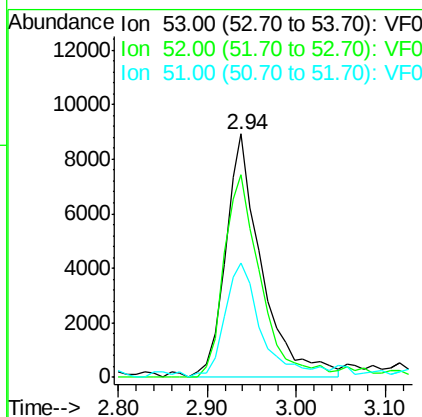
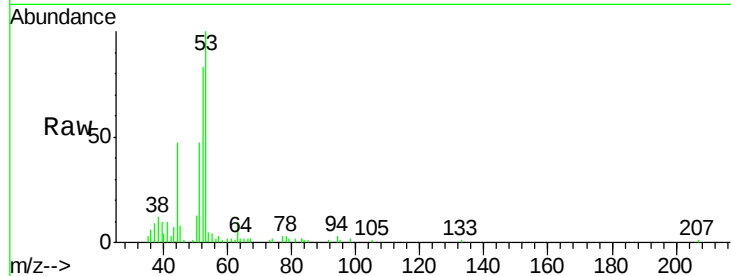
ClientSampleId :

VF0207SBS01

Tot Ion:	53	Resp:	25213
Ion	Ratio	Lower	Upper
53	100		
52	83.2	69.6	104.4
51	47.0	36.8	55.2

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#16

Acetone

Concen: 110.169 ug/l

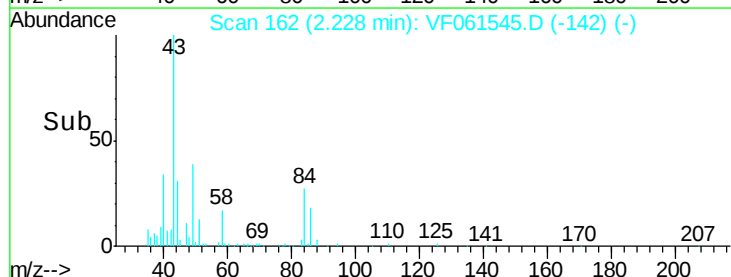
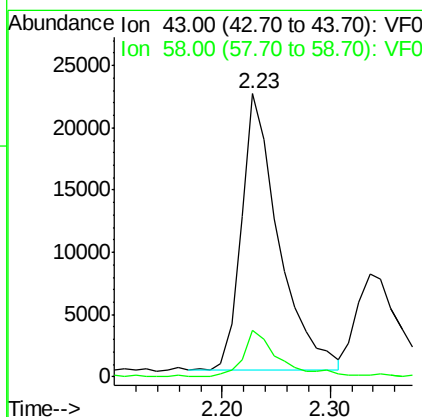
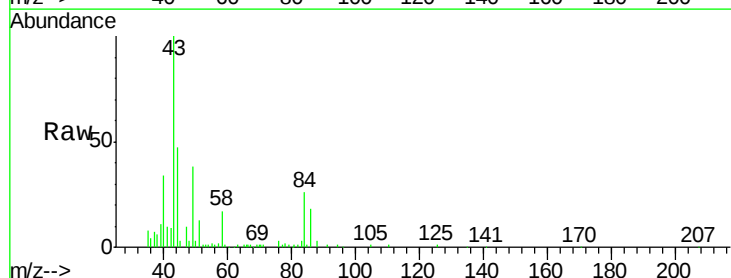
RT: 2.23 min Scan# 162

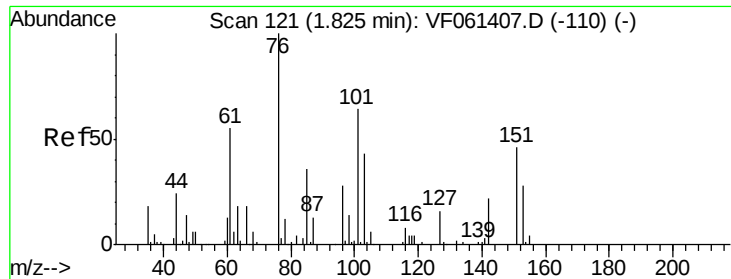
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	43	Resp:	53328
Ion	Ratio	Lower	Upper
43	100		
58	16.6	13.3	19.9





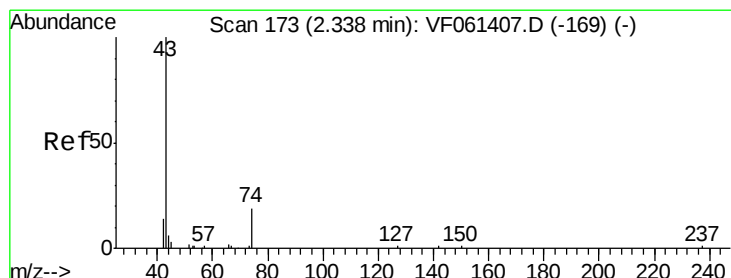
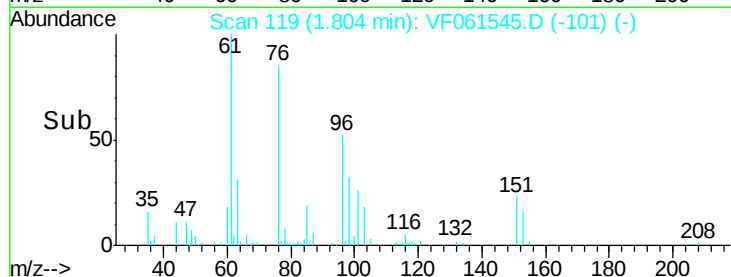
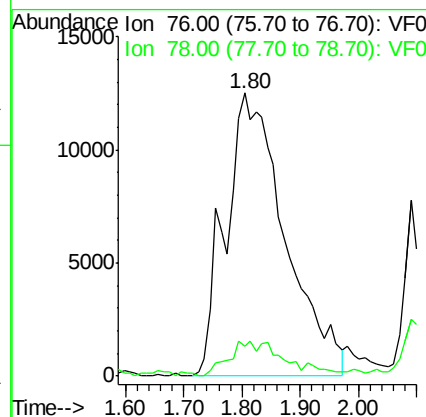
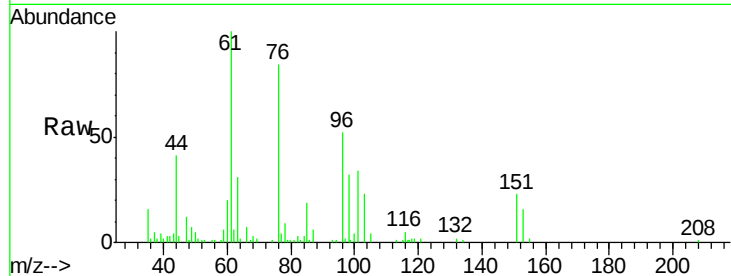
#17
Carbon Disulfide
Concen: 16.499 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
76	100			
78	10.5	9.6	14.4	

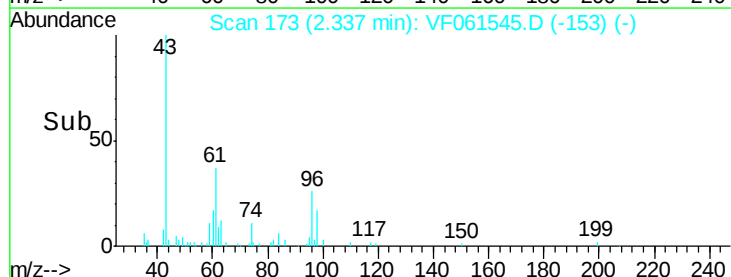
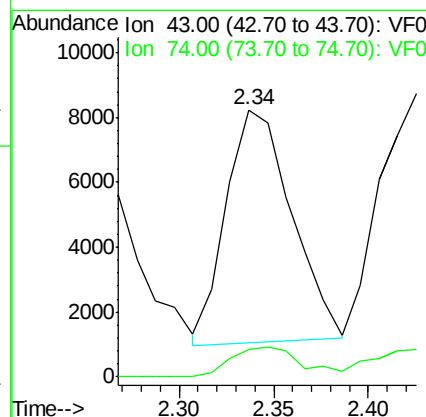
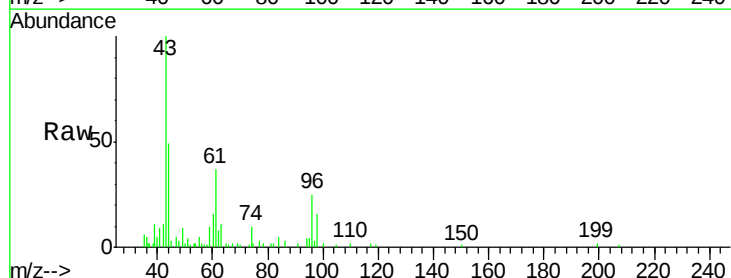
Manual Integrations
APPROVED

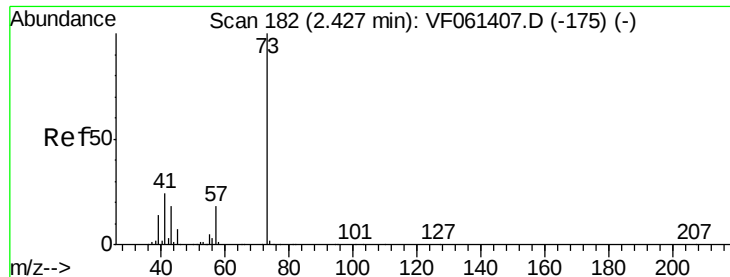
MMDadoda
2/11/2019 12:35:57 PM



#18
Methyl Acetate
Concen: 17.936 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
74	10.4	13.4	20.0	#





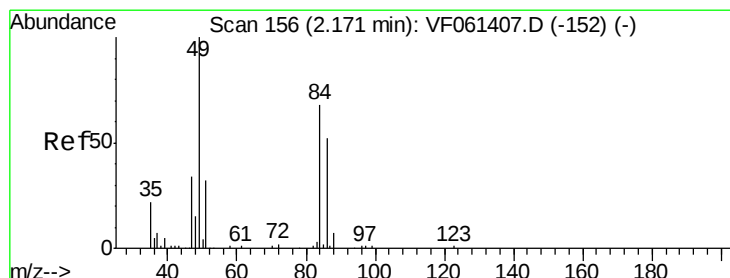
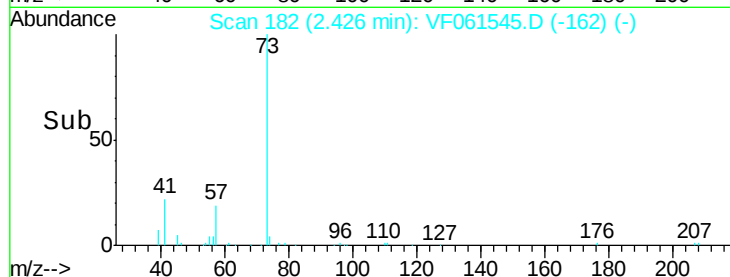
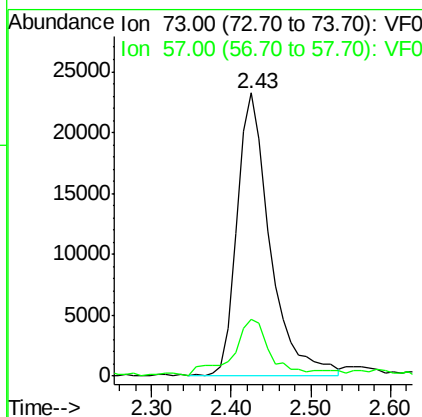
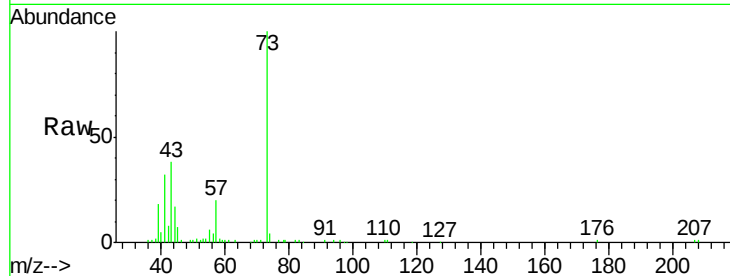
#19
Methvl tert-butvl Ether
Concen: 17.272 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	73	Resp	67302
Ion Ratio	Lower	Upper	
73	100		
57	20.3	14.8	22.2

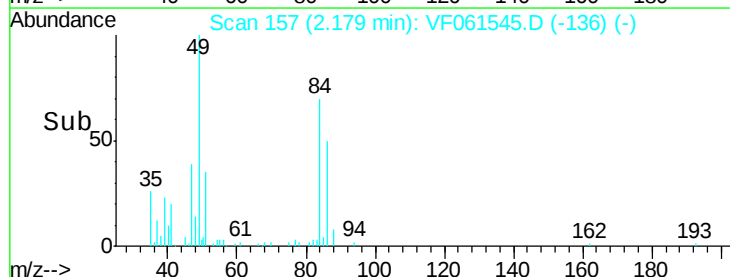
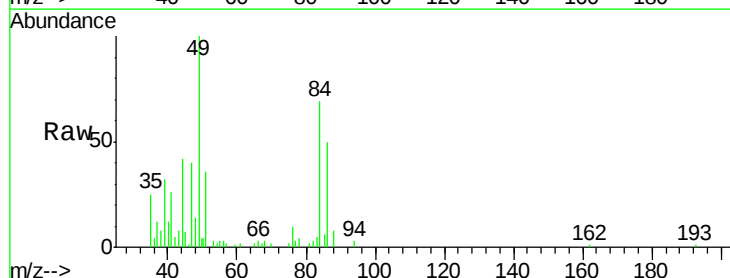
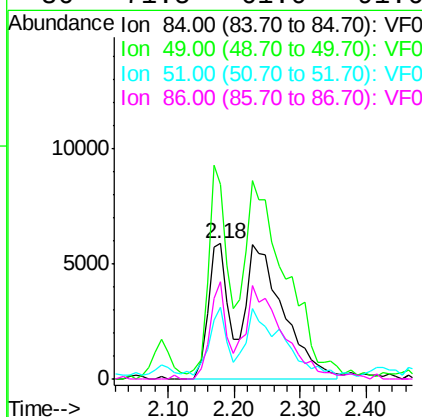
Manual Integrations
APPROVED

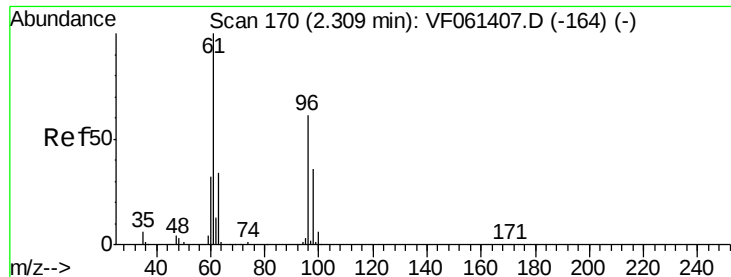
MMDadoda
2/11/2019 12:35:57 PM



#20
Methylene Chloride
Concen: 20.298 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	84	Resp	35068
Ion Ratio	Lower	Upper	
84	100		
49	144.2	120.0	180.0
51	52.6	38.6	58.0
86	71.5	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 17.578 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

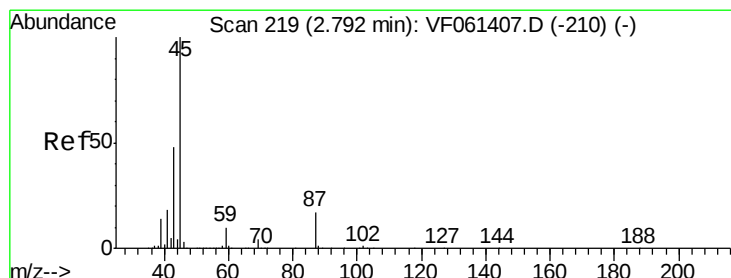
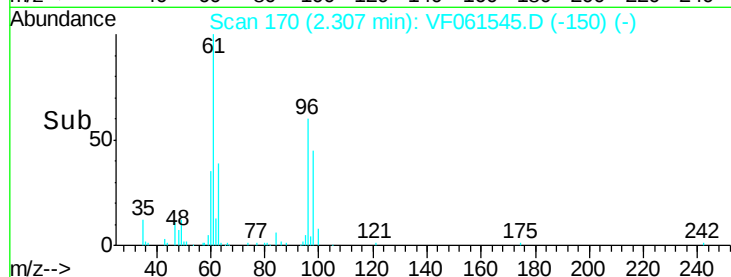
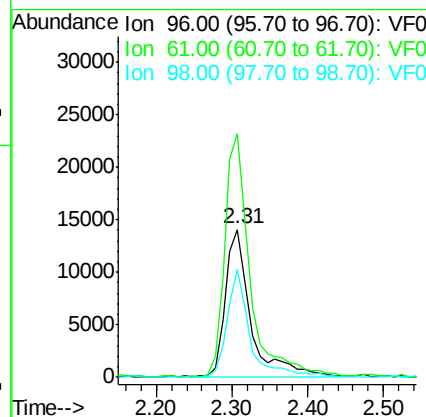
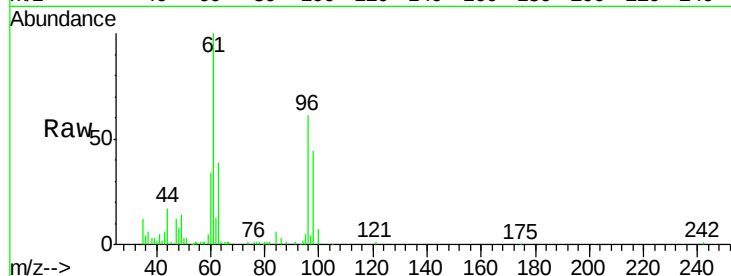
ClientSampleId :

VF0207SBSD01

Tot Ion:	96	Resp:	33616
Ion	Ratio	Lower	Upper
96	100		
61	164.8	131.8	197.8
98	73.3	47.4	71.0#

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#22

Diisopropyl ether

Concen: 18.382 ug/l

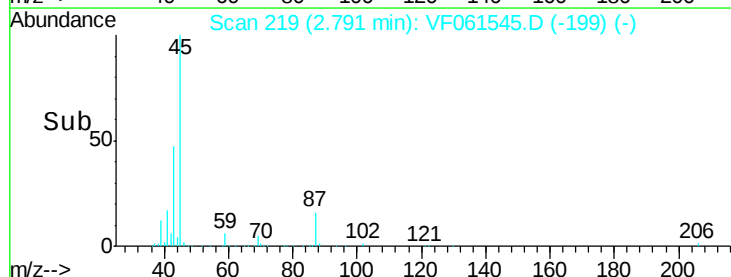
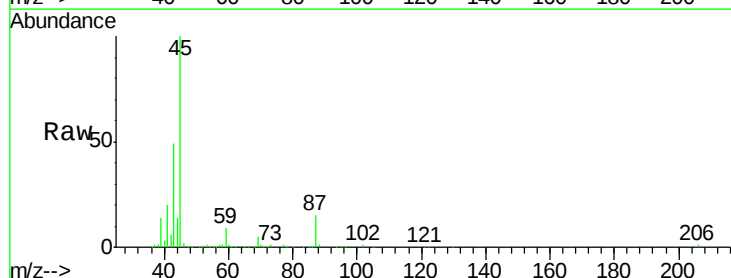
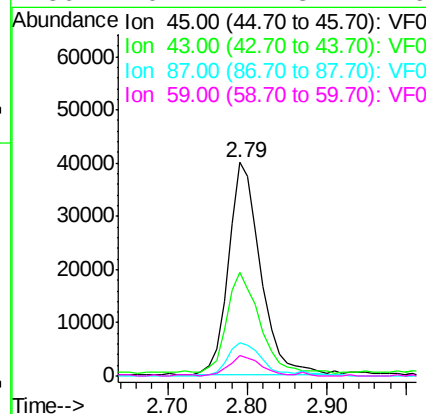
RT: 2.79 min Scan# 219

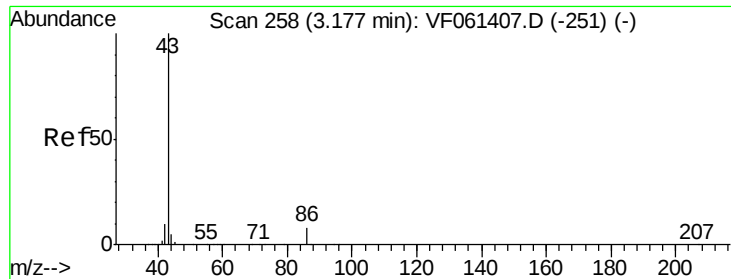
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	45	Resp:	113707
Ion	Ratio	Lower	Upper
45	100		
43	48.6	39.0	58.6
87	15.4	13.9	20.9
59	9.4	7.8	11.6





#23

Vinyl Acetate

Concen: 102.681 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion: 43 Resp: 274181

Ion Ratio Lower Upper

43 100

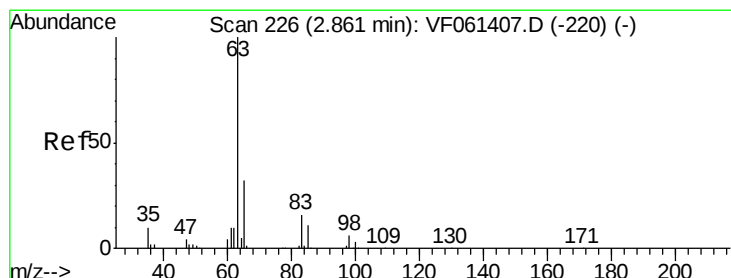
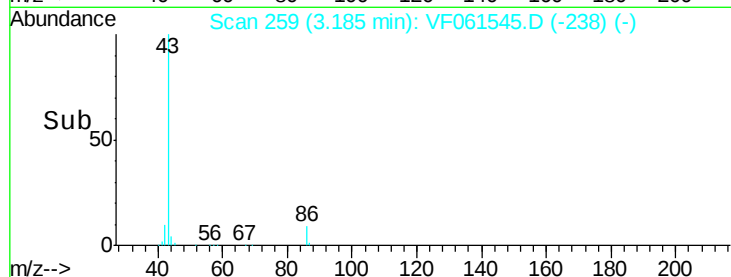
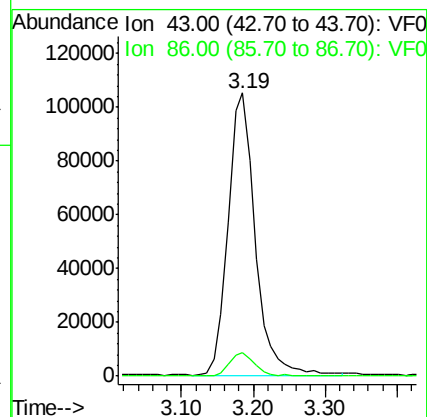
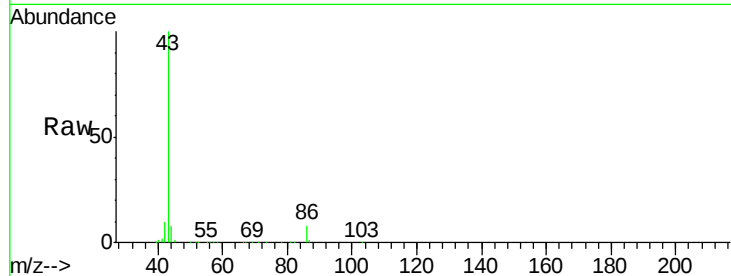
86 8.5 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#24

1,1-Dichloroethane

Concen: 17.969 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

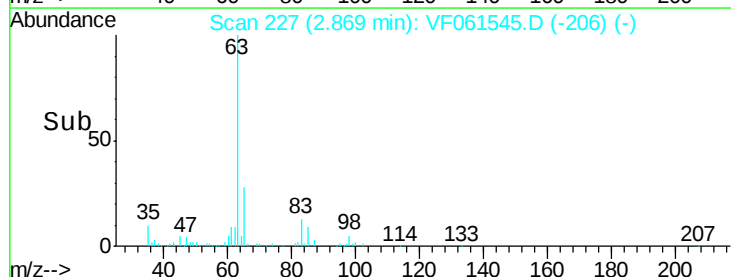
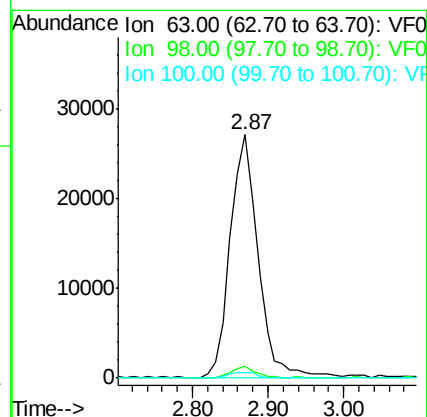
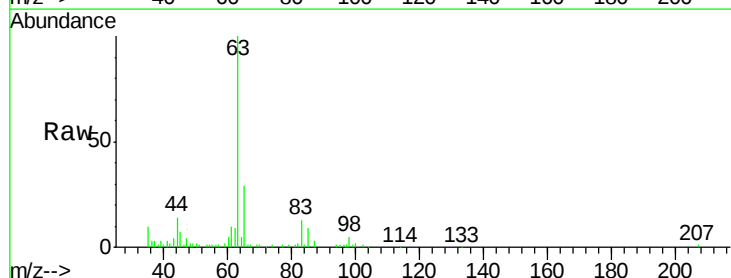
Tgt Ion: 63 Resp: 69761

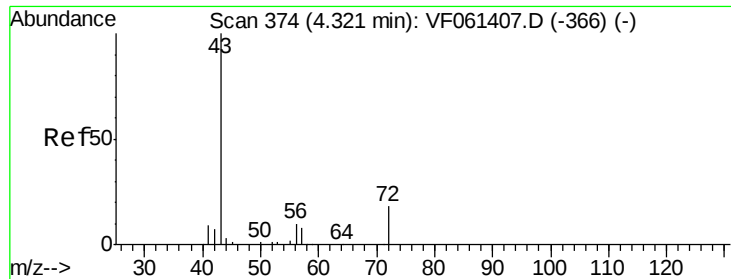
Ion Ratio Lower Upper

63 100

98 5.1 2.9 8.8

100 2.3 1.6 4.8





#25

2-Butanone

Concen: 101.593 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion: 43 Resp: 81779

Ion Ratio Lower Upper

43 100

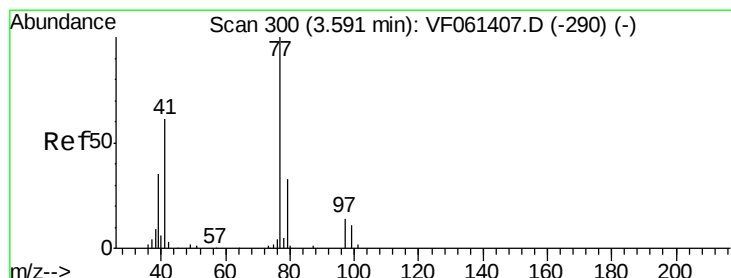
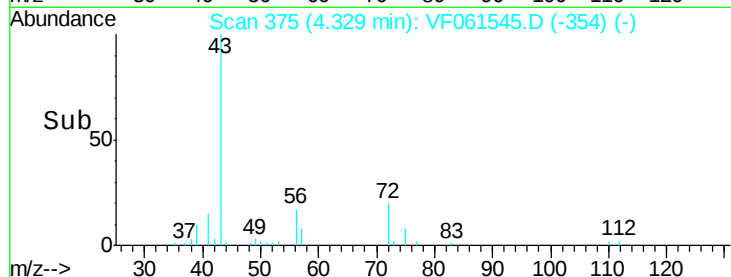
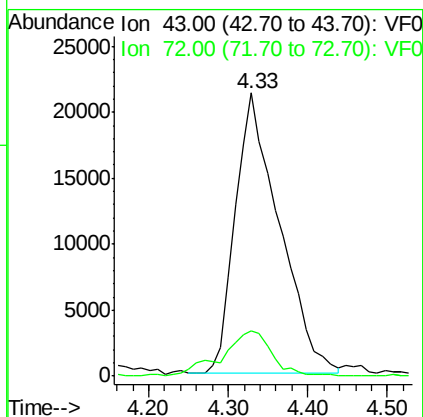
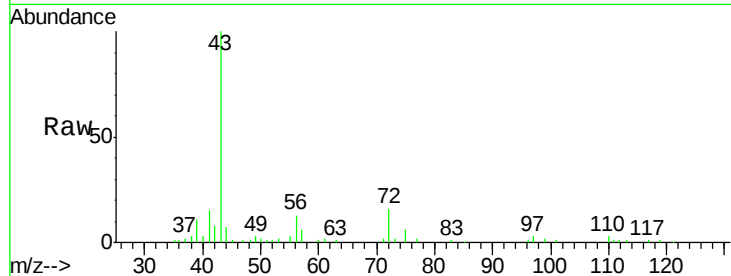
72 16.1 15.8 23.6

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#26

2,2-Dichloropropane

Concen: 18.980 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061545.D

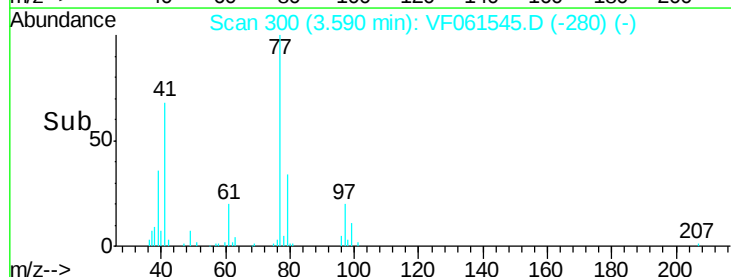
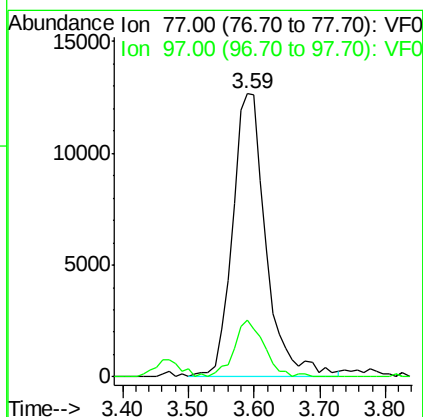
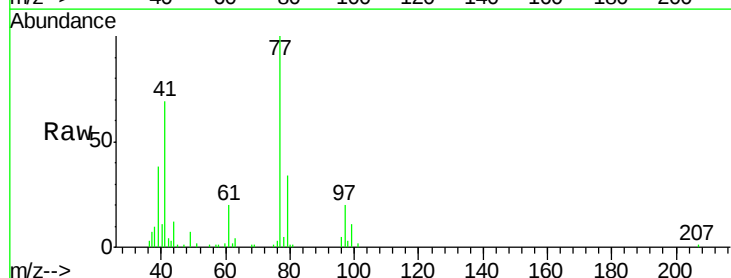
Acq: 7 Feb 2019 15:18

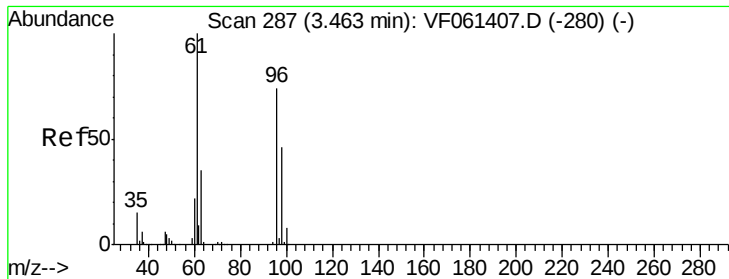
Tgt Ion: 77 Resp: 45272

Ion Ratio Lower Upper

77 100

97 20.3 8.5 25.5





#27

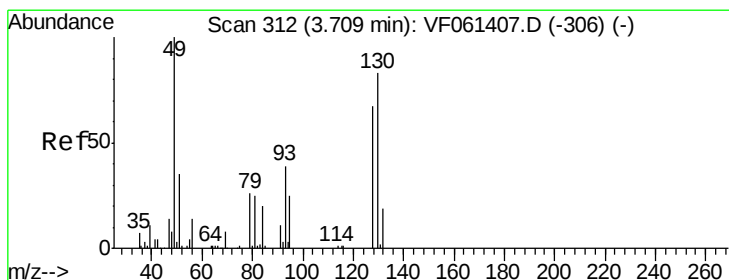
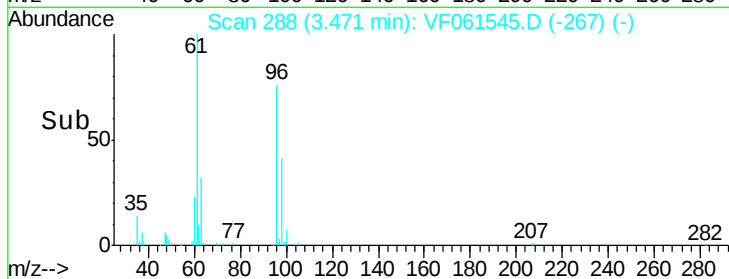
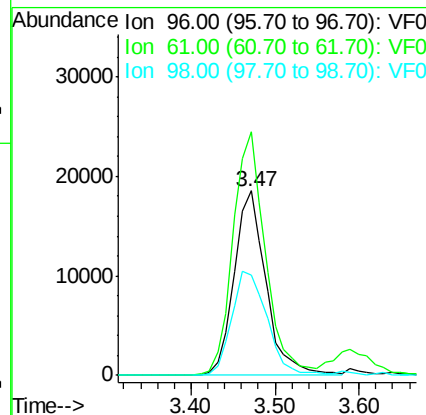
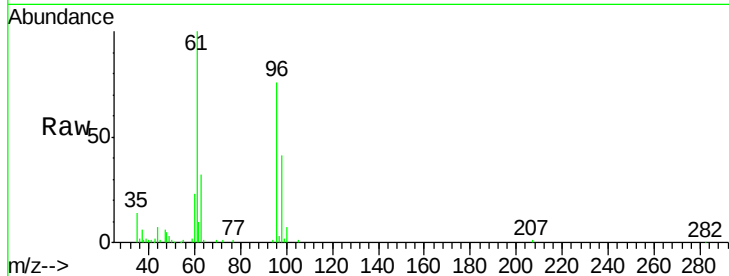
cis-1,2-Dichloroethene
Concen: 17.455 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	49275		
61	131.9		0.0	270.2
98	54.4		0.0	124.0

Manual Integrations
APPROVED

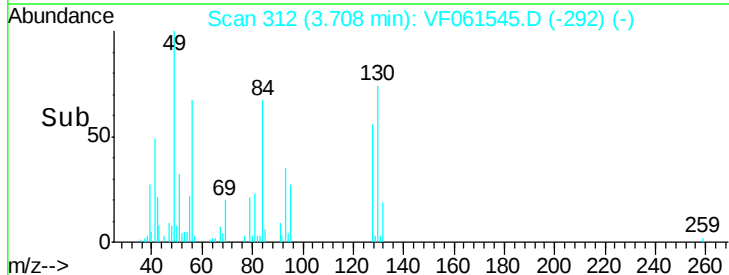
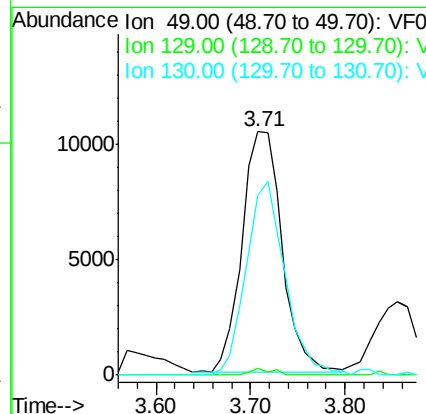
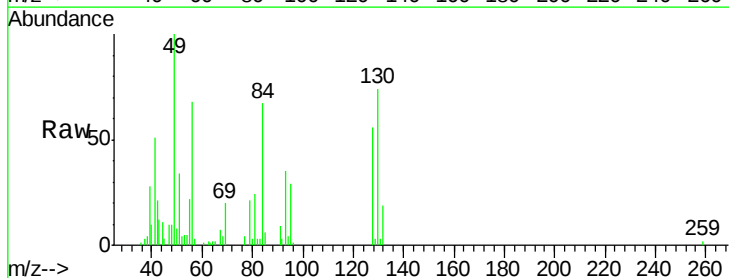
MMDadoda
2/11/2019 12:35:57 PM

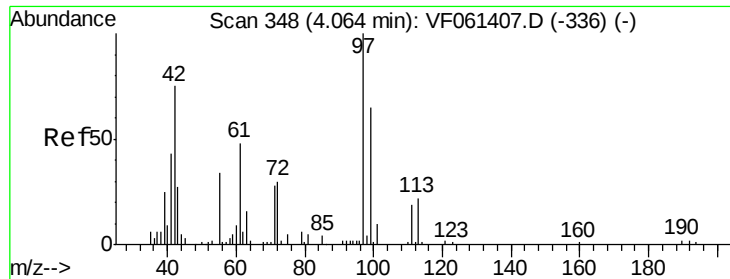


#28

Bromochloromethane
Concen: 17.553 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	30631		
129	2.6		0.0	0.0#
130	73.8		65.4	98.2





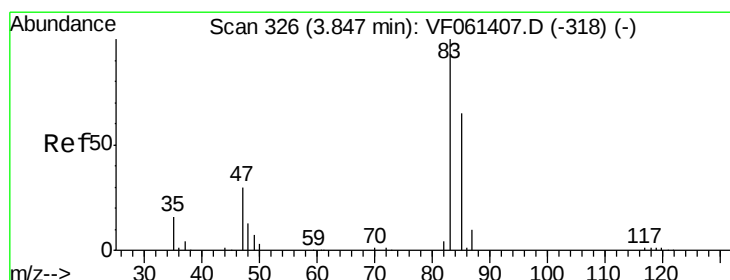
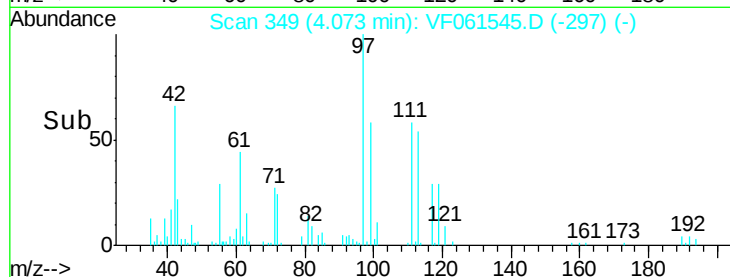
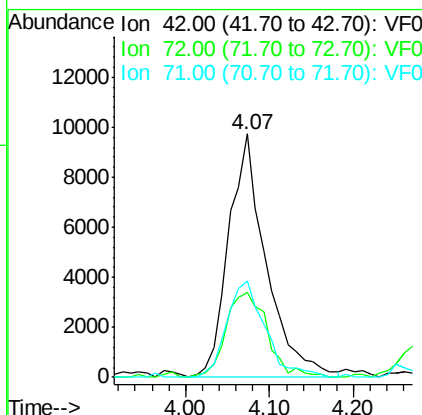
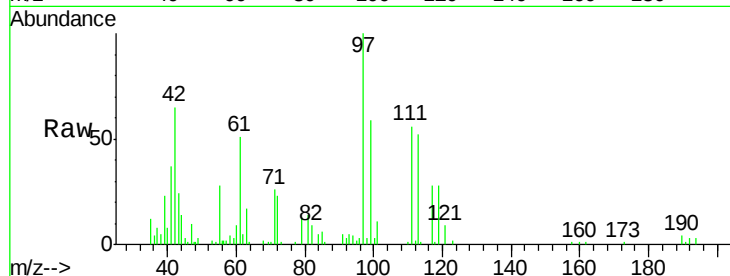
#29
Tetrahydrofuran
Concen: 87.625 ug/l
RT: 4.07 min Scan# 349
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.5	28.9	43.3
71	40.4	29.6	44.4

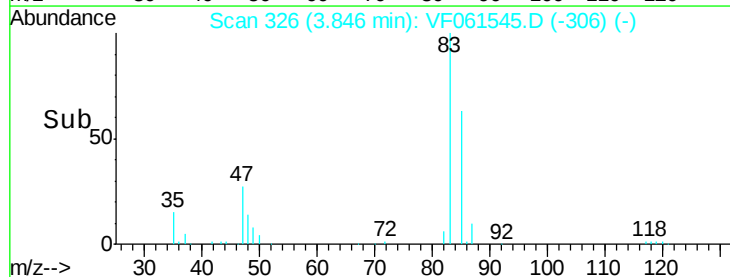
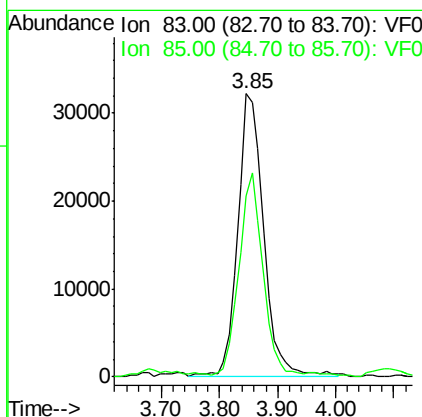
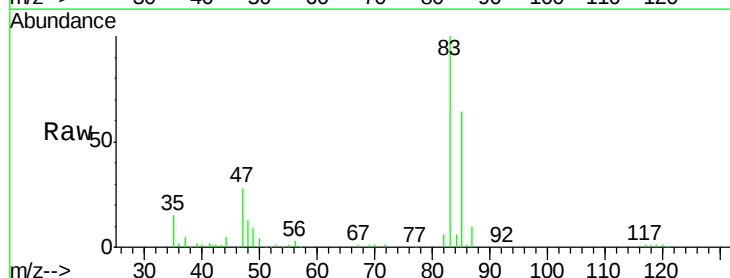
Manual Integrations
APPROVED

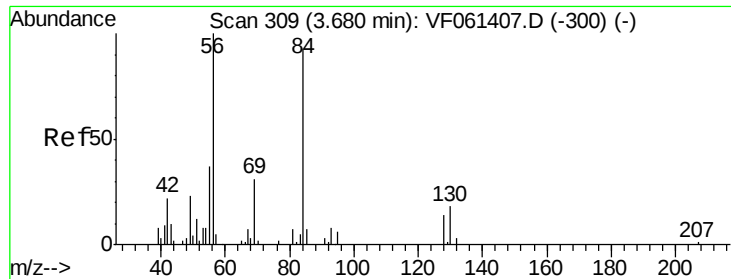
MMDadoda
2/11/2019 12:35:57 PM



#30
Chloroform
Concen: 19.201 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.7	79.1





#31

Cvclohexane

Concen: 18.126 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

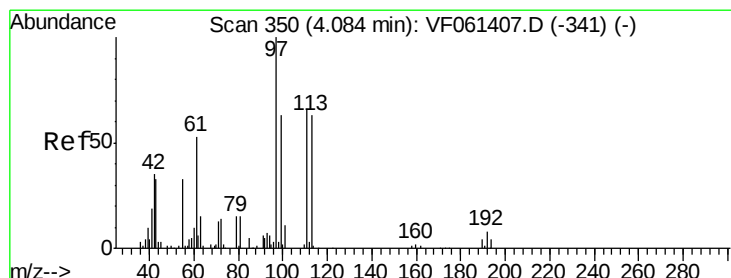
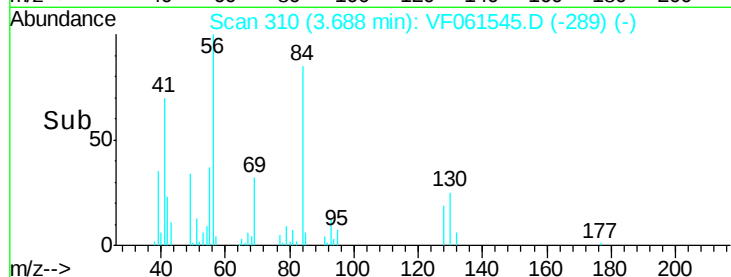
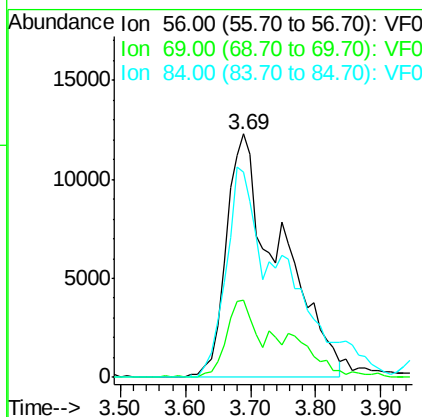
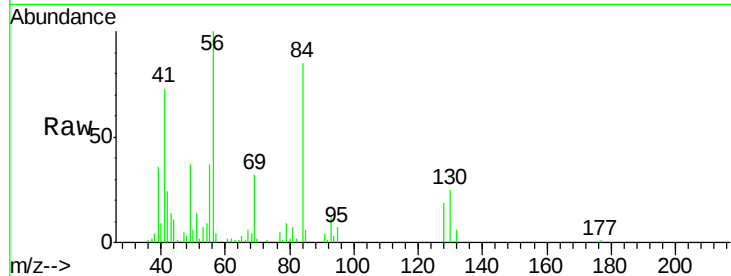
ClientSampleId :

VF0207SBSD01

Tot Ion:	56	Resp:	70295
Ion Ratio	Lower	Upper	
56	100		
69	31.7	24.6	36.8
84	84.5	74.2	111.2

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#32

1,1,1-Trichloroethane

Concen: 18.524 ug/l

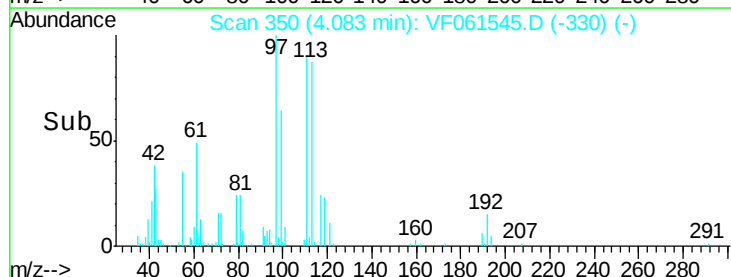
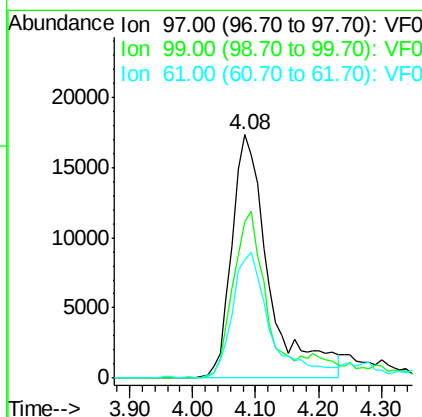
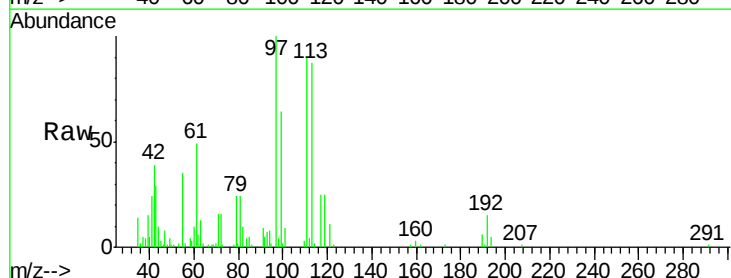
RT: 4.08 min Scan# 350

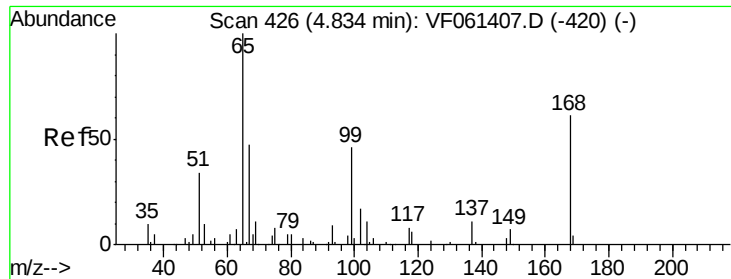
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	97	Resp:	71162
Ion Ratio	Lower	Upper	
97	100		
99	64.5	50.1	75.1
61	48.7	43.1	64.7





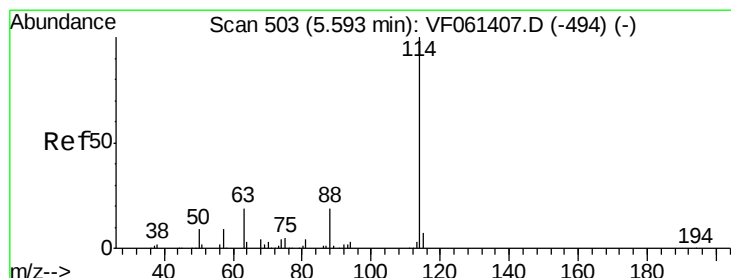
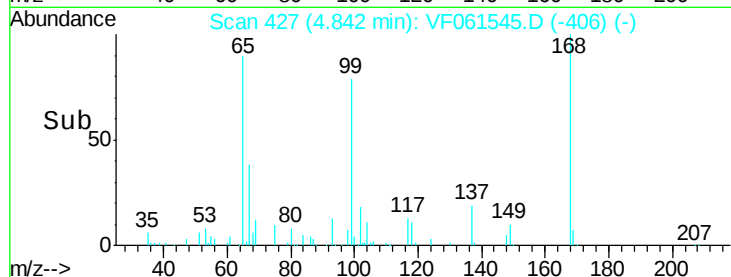
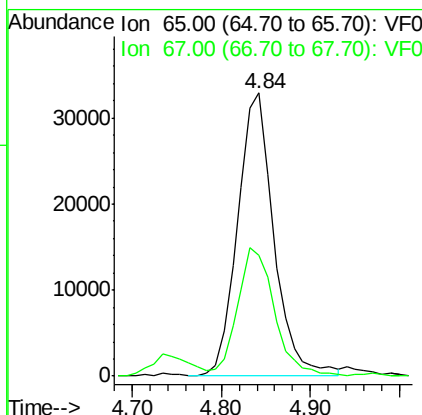
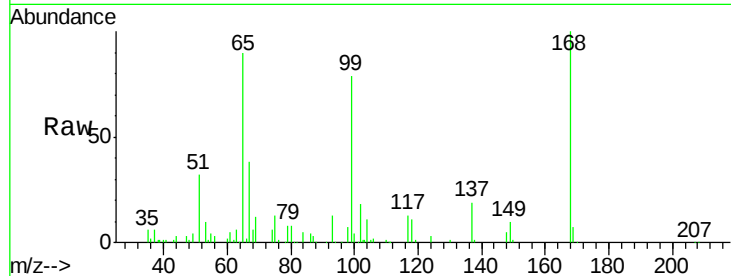
#33
 1,2-Dichloroethane-d4
 Concen: 38.198 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.01 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	92167		
67	42.6	0.0	99.8	

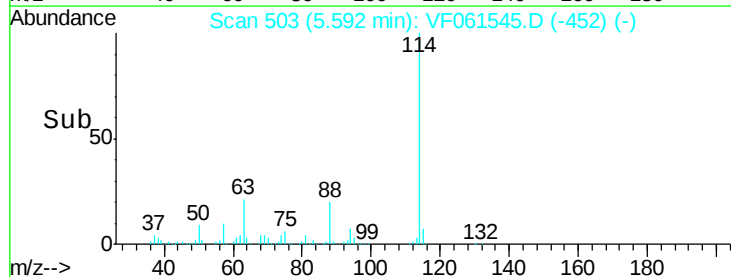
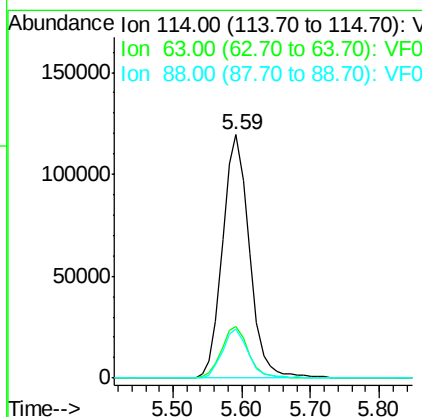
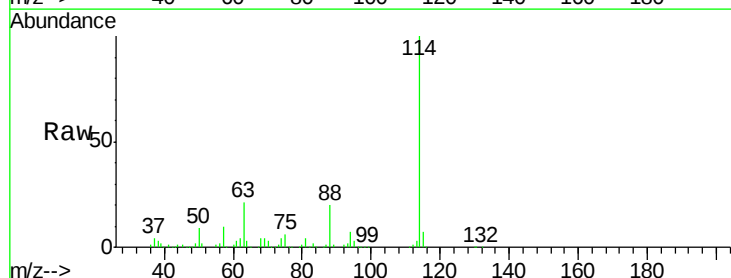
Manual Integrations
 APPROVED

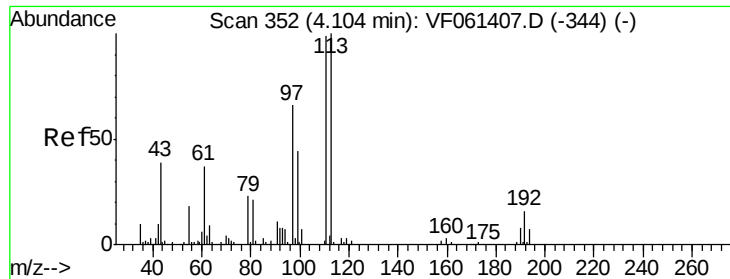
MMDadoda
 2/11/2019 12:35:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	323071		
63	21.2	0.0	39.0	
88	20.0	0.0	37.4	





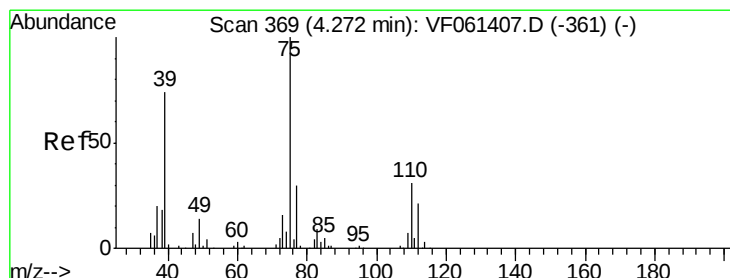
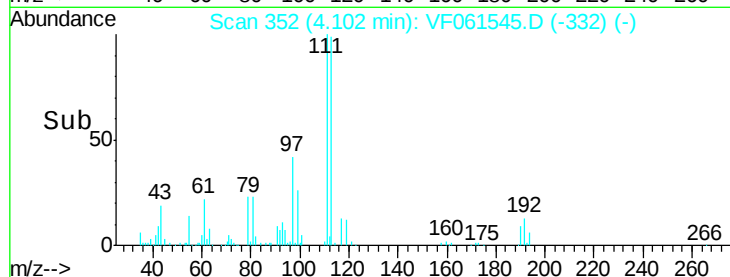
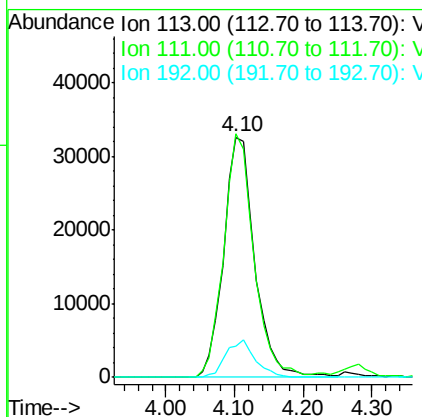
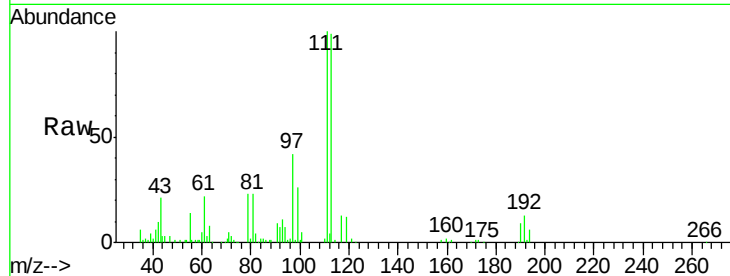
#35
 Dibromofluoromethane
 Concen: 40.115 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.5	79.4	119.0	
192	13.0	12.4	18.6	

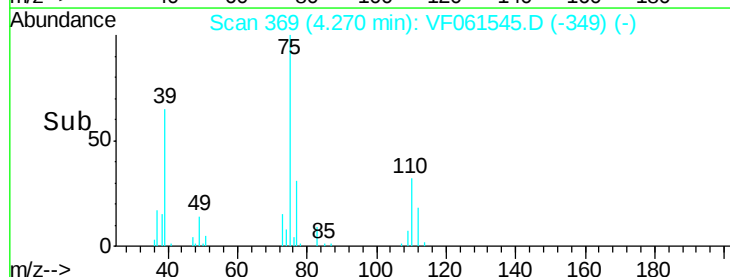
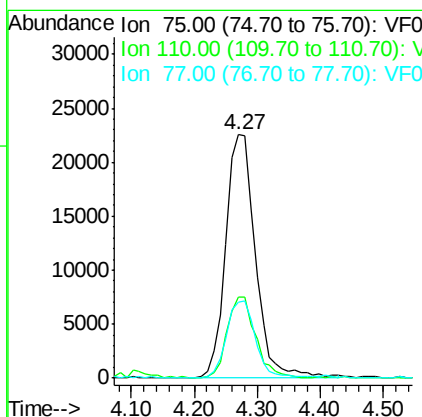
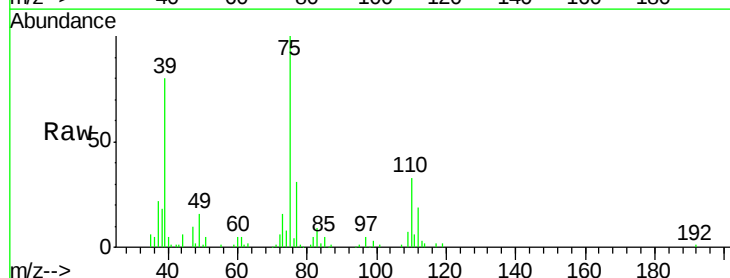
Manual Integrations
 APPROVED

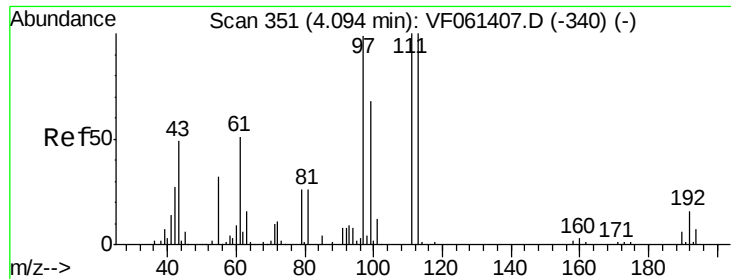
MMDadoda
 2/11/2019 12:35:57 PM



#36
 1,1-Dichloropropene
 Concen: 19.704 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.2	15.8	47.3	
77	31.4	24.0	36.0	





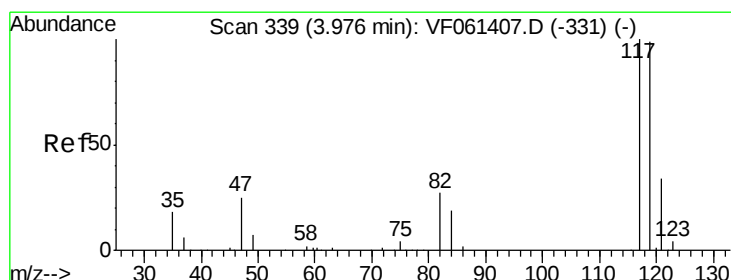
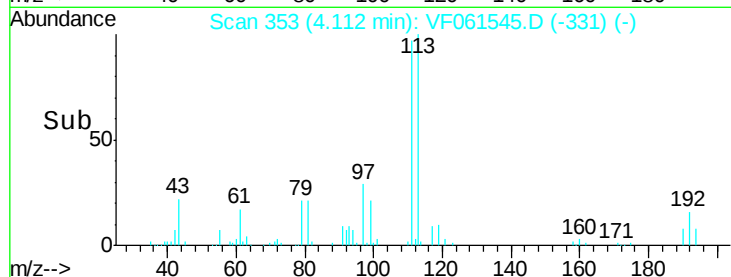
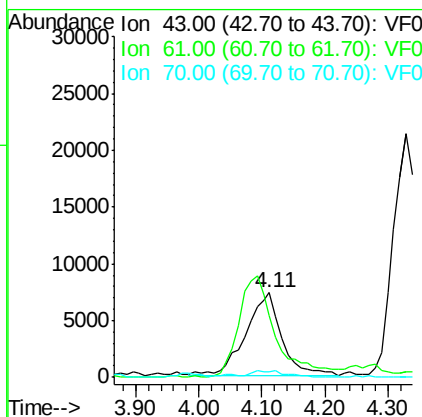
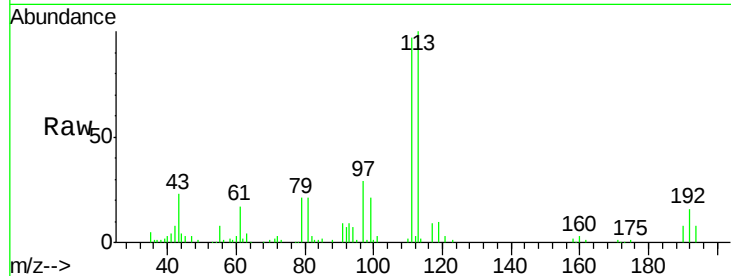
#37
Ethyl Acetate
Concen: 19.406 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
29057	100	72.7	5.8			
					81.7	122.5#
					6.2	9.2#

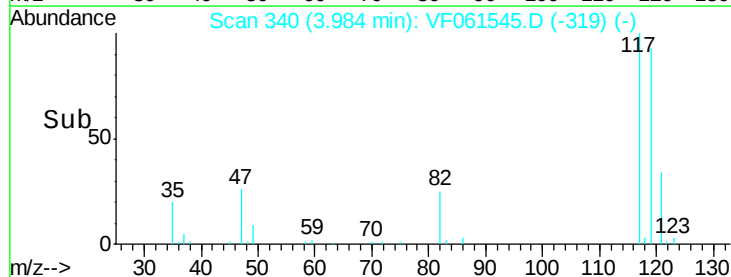
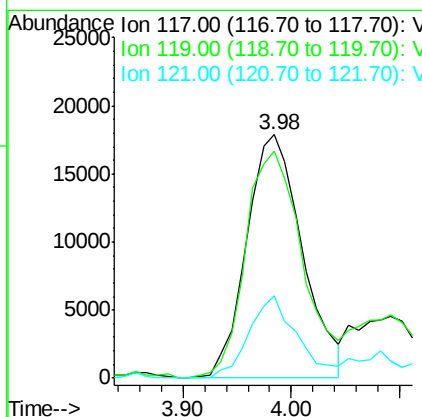
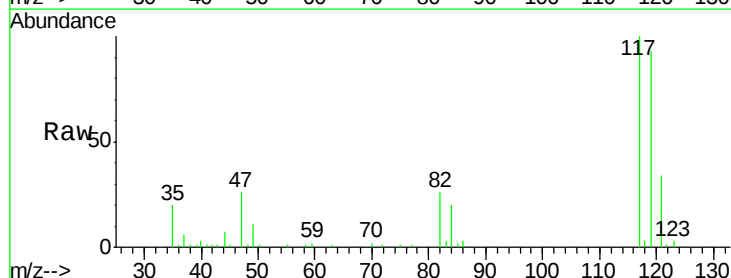
Manual Integrations
APPROVED

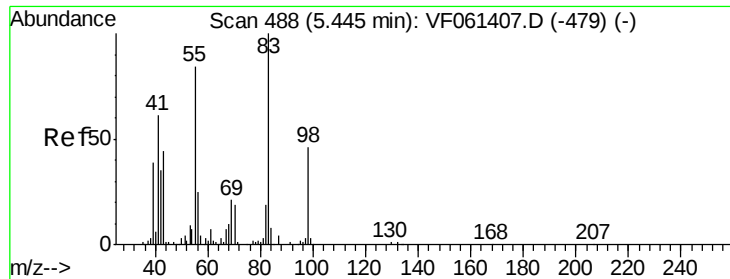
MMDadoda
2/11/2019 12:35:57 PM



#38
Carbon Tetrachloride
Concen: 19.575 ug/l
RT: 3.98 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	117	119	121	Ratio	Lower	Upper
64103	100	93.2	33.7			
					79.0	118.6
					27.0	40.6





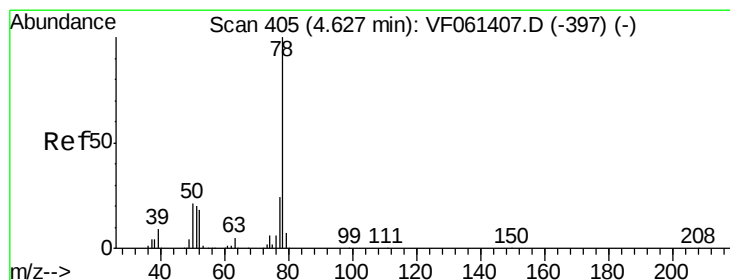
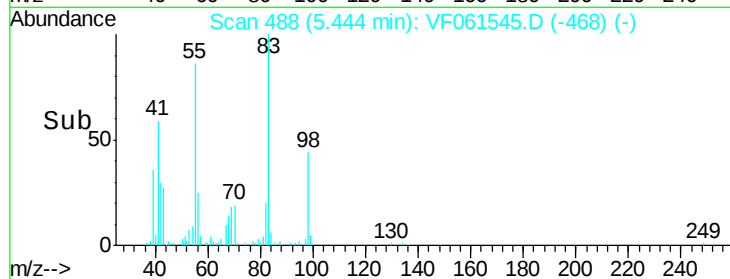
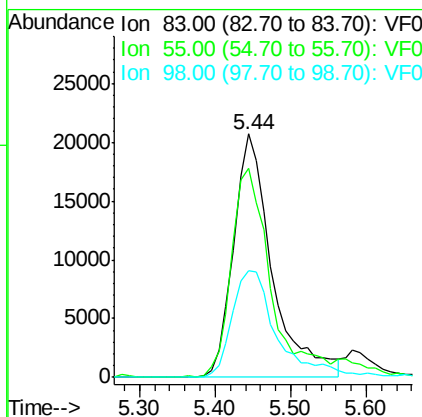
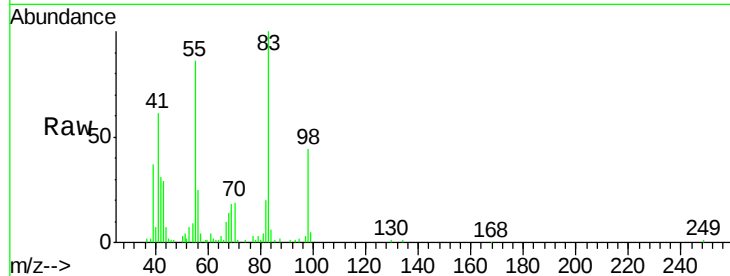
#39
Methvlcvclohexane
Concen: 18.117 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.1	67.4	101.2
98	43.6	36.7	55.1

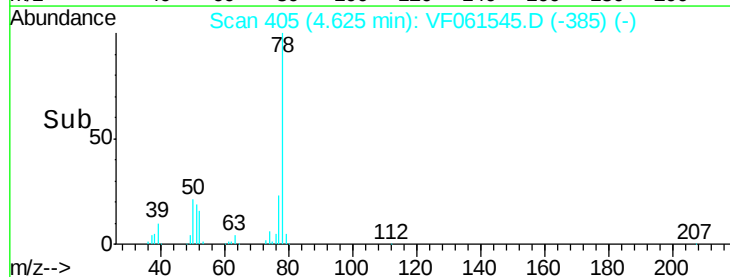
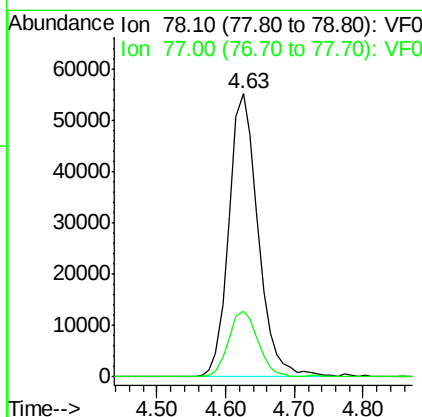
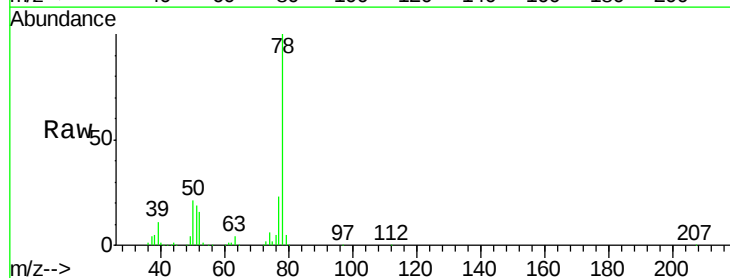
Manual Integrations
APPROVED

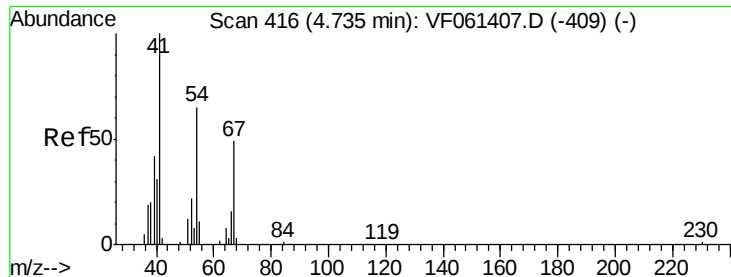
MMDadoda
2/11/2019 12:35:57 PM



#40
Benzene
Concen: 19.560 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6





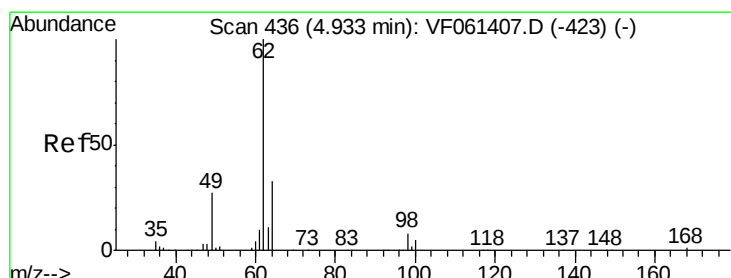
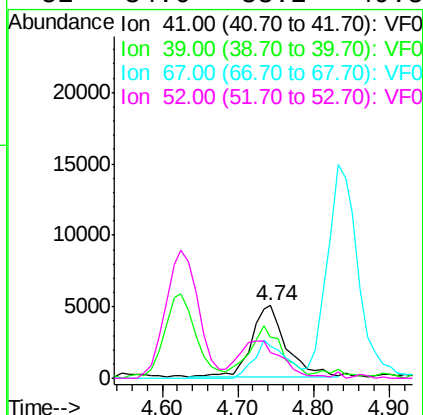
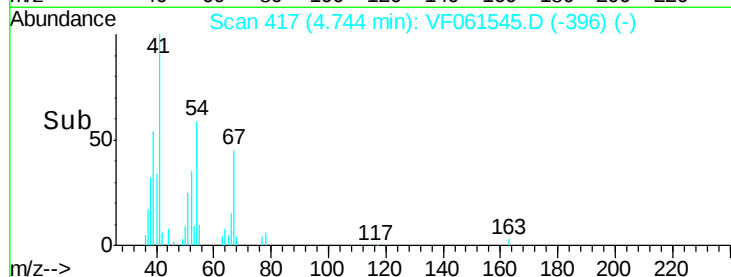
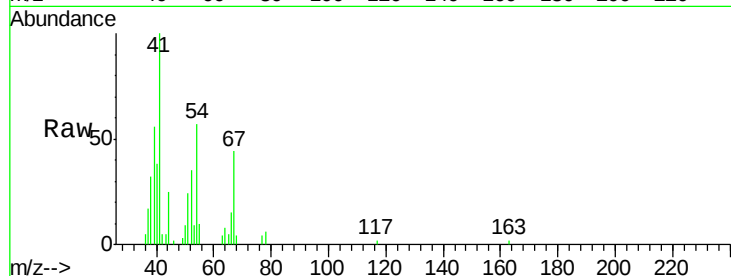
#41
Methacrylonitrile
Concen: 19.988 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.1	64.7
67	44.3	38.8	58.2
52	34.6	33.2	49.8

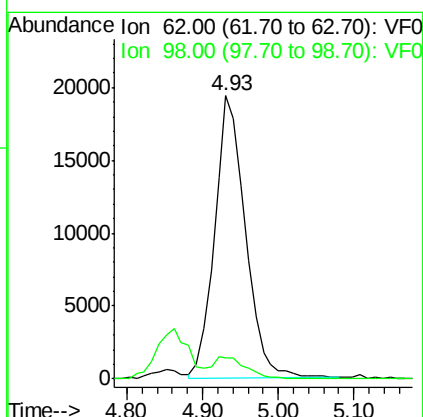
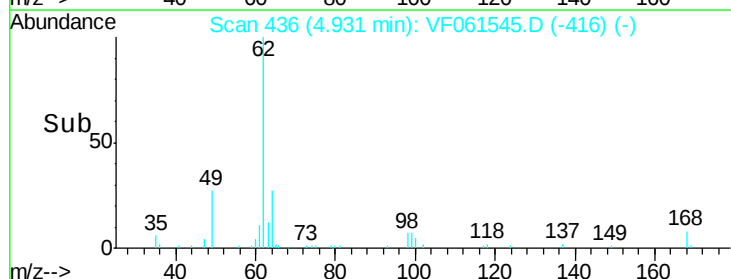
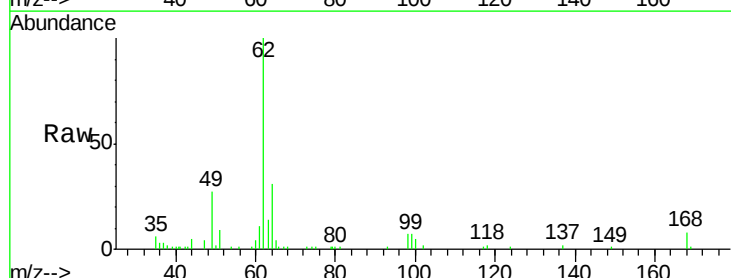
Manual Integrations
APPROVED

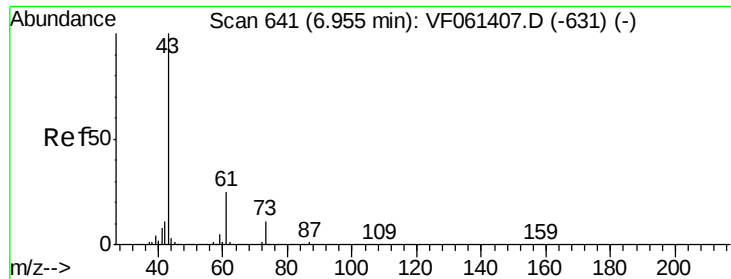
MMDadoda
2/11/2019 12:35:57 PM



#42
1,2-Dichloroethane
Concen: 18.473 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	17.0





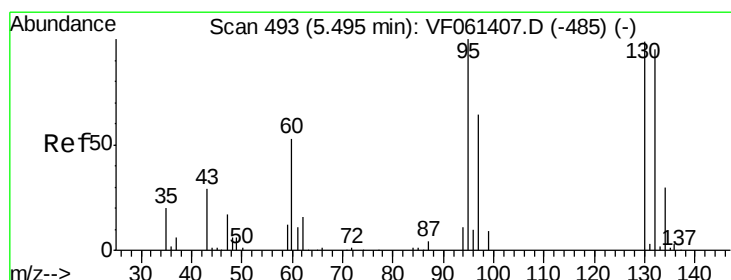
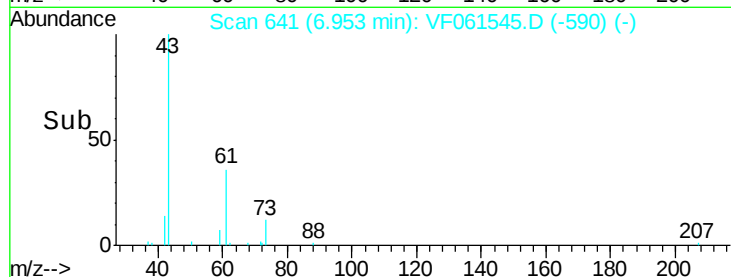
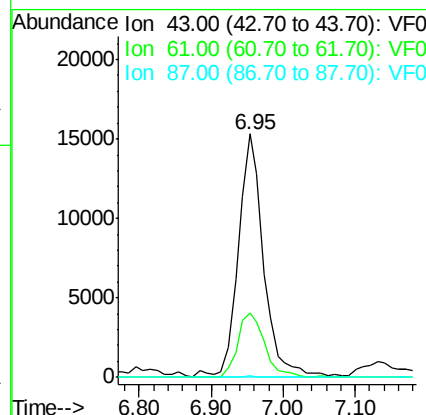
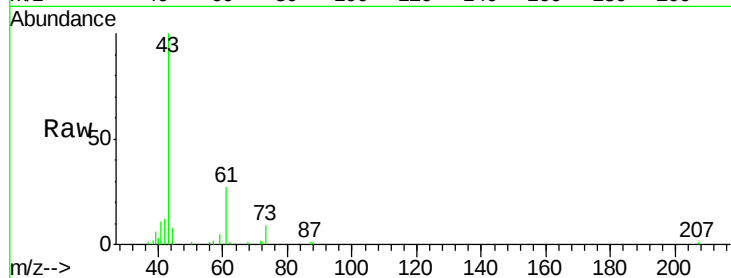
#43
Isopropyl Acetate
Concen: 20.031 ug/l
RT: 6.95 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.5	20.3	30.5
87	0.9	0.5	0.7

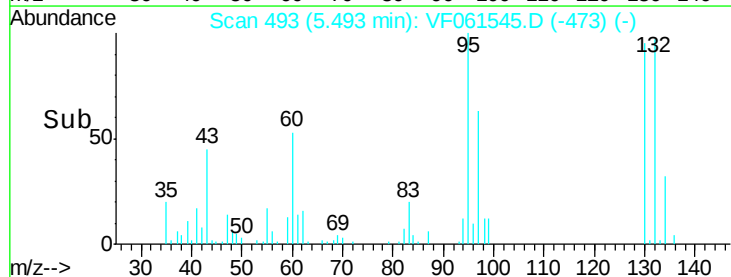
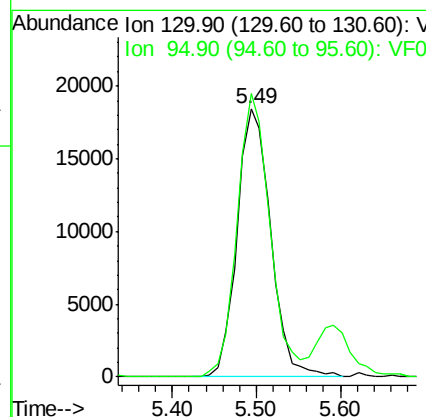
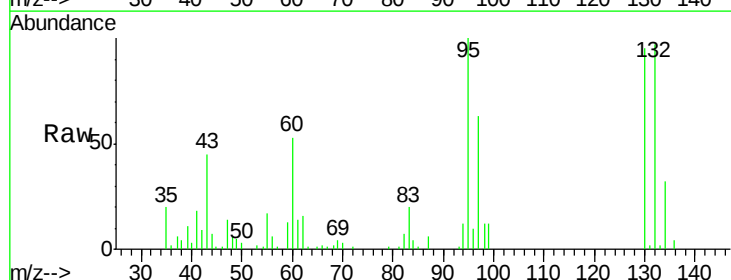
Manual Integrations
APPROVED

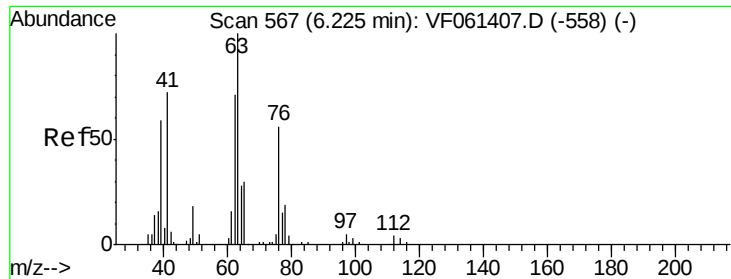
MMDadoda
2/11/2019 12:35:57 PM



#44
Trichloroethene
Concen: 20.106 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	202.8





#45

1,2-Dichloropropane

Concen: 18.760 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion: 63 Resp: 41040

Ion Ratio Lower Upper

63 100

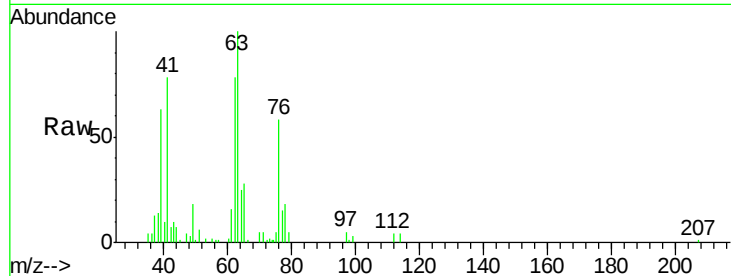
65 27.6 24.4 36.6

Manual Integrations

APPROVED

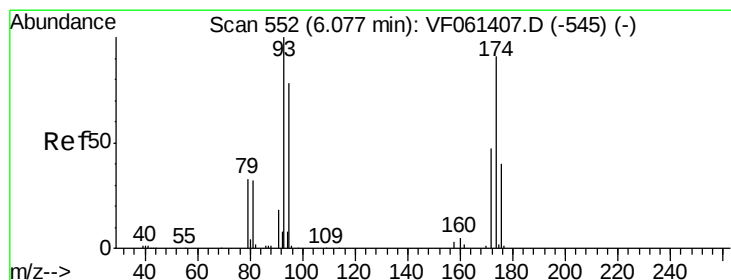
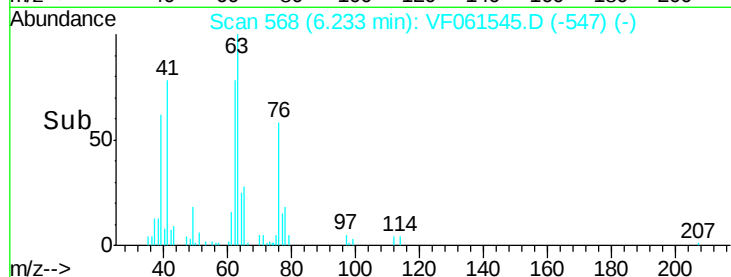
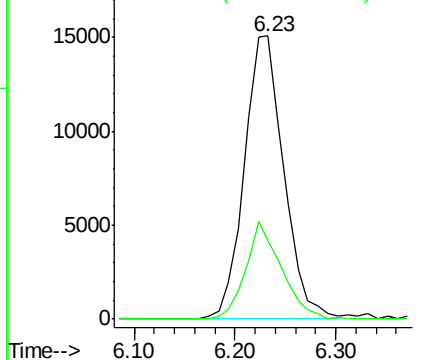
MMDadoda

2/11/2019 12:35:57 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.029 ug/l

RT: 6.09 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

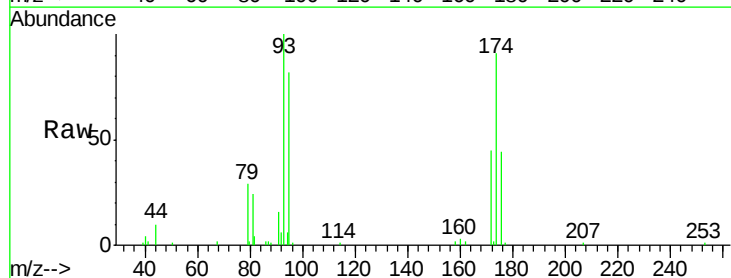
Tgt Ion: 93 Resp: 27680

Ion Ratio Lower Upper

93 100

95 82.4 62.1 93.1

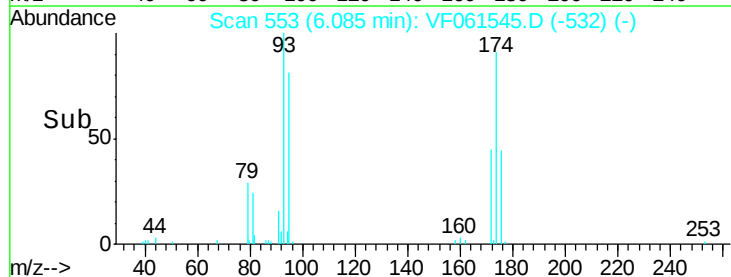
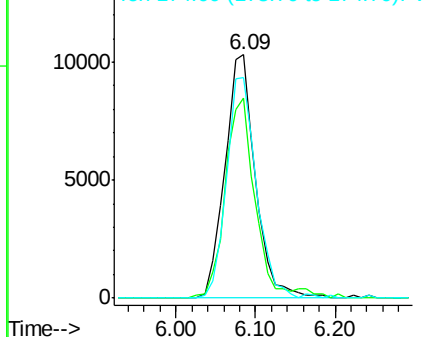
174 90.6 74.6 111.8

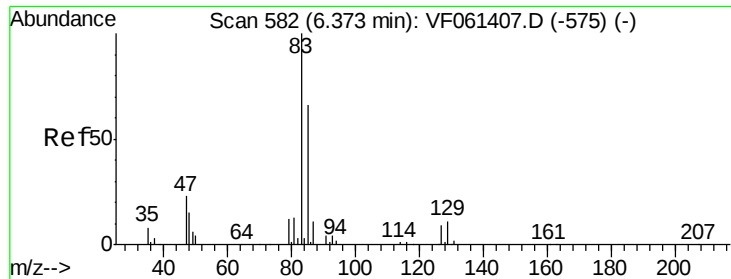


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.312 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

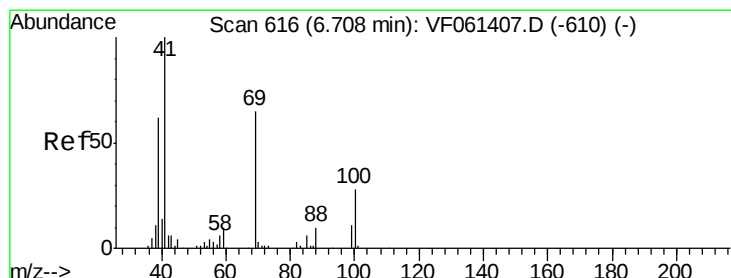
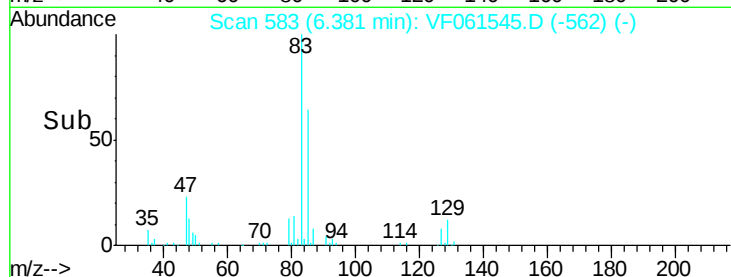
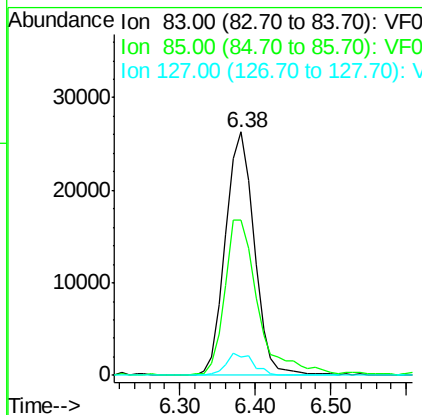
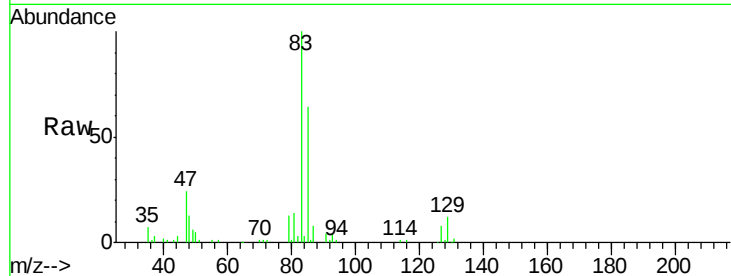
ClientSampleId :

VF0207SBS01

Tot Ion:	83	Resp:	69503
Ion Ratio	Lower	Upper	
83	100		
85	63.8	53.0	79.4
127	7.6	6.9	10.3

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#48

Methyl methacrylate

Concen: 18.297 ug/l

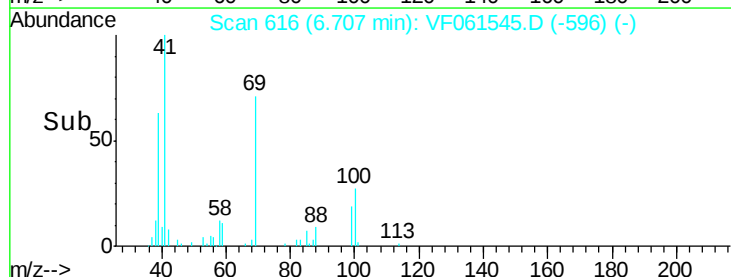
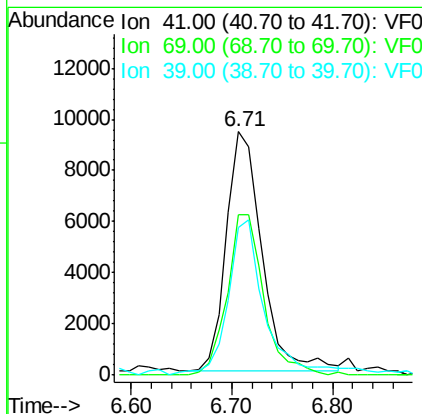
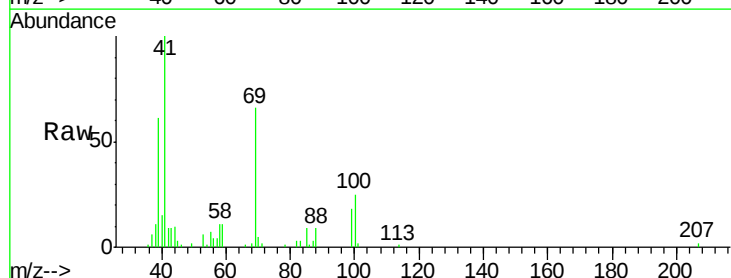
RT: 6.71 min Scan# 616

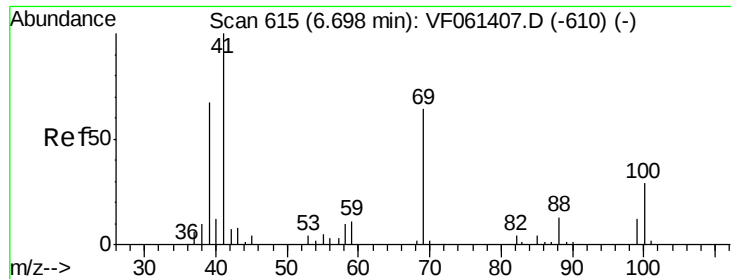
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	41	Resp:	23090
Ion Ratio	Lower	Upper	
41	100		
69	66.1	51.7	77.5
39	60.7	49.2	73.8





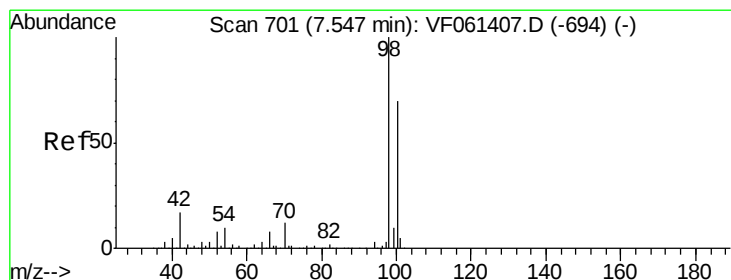
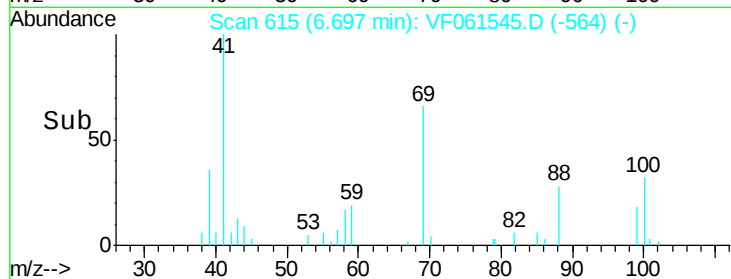
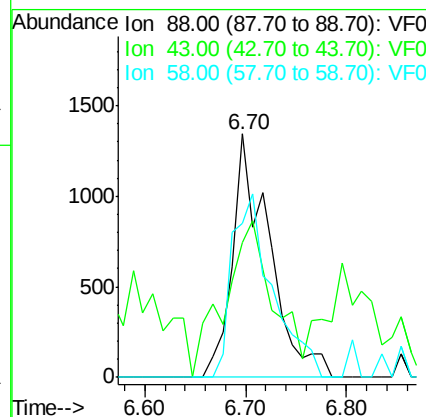
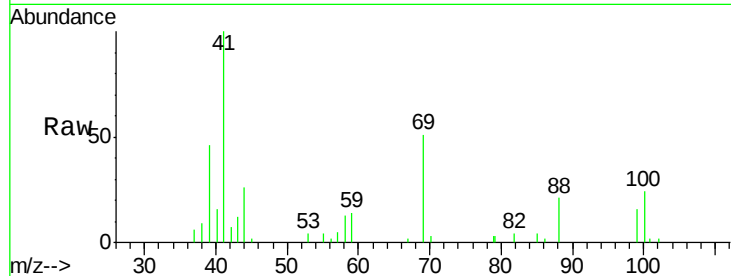
#49
1,4-Dioxane
Concen: 342.498 ug/l
RT: 6.70 min Scan# 615
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	55.4	55.5	83.3#
58	63.1	59.9	89.9

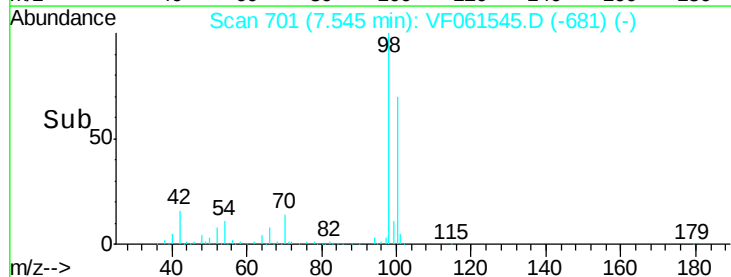
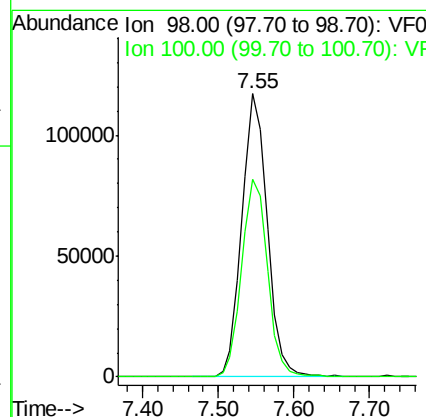
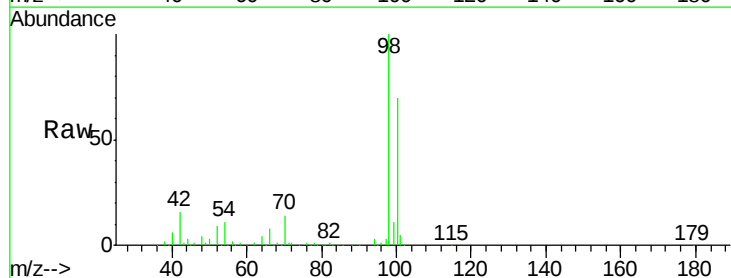
Manual Integrations
APPROVED

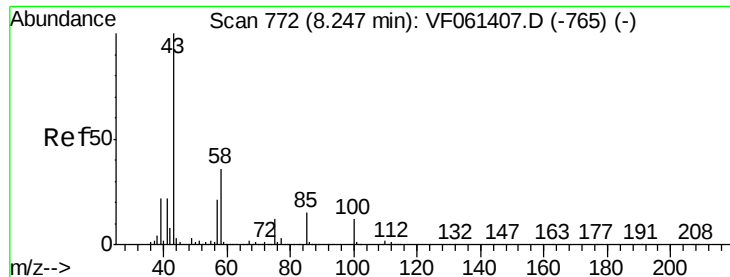
MMDadoda
2/11/2019 12:35:57 PM



#50
Toluene-d8
Concen: 39.109 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.8	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 95.139 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion: 43 Resp: 131440

Ion Ratio Lower Upper

43 100

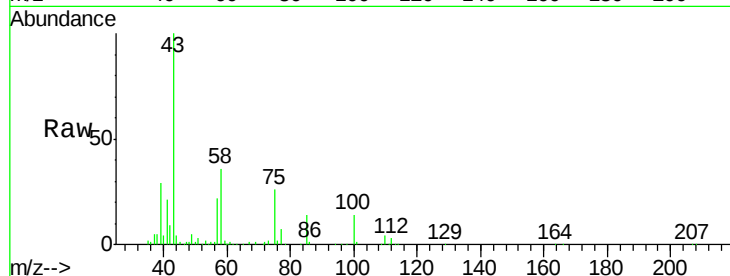
58 36.3 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

60000

50000

40000

30000

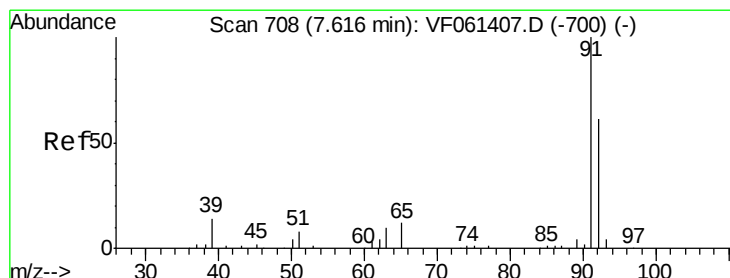
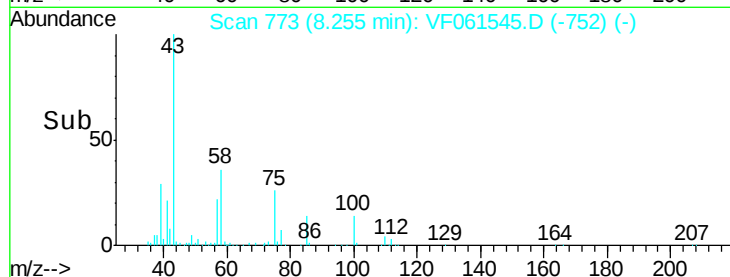
20000

10000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 18.498 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061545.D

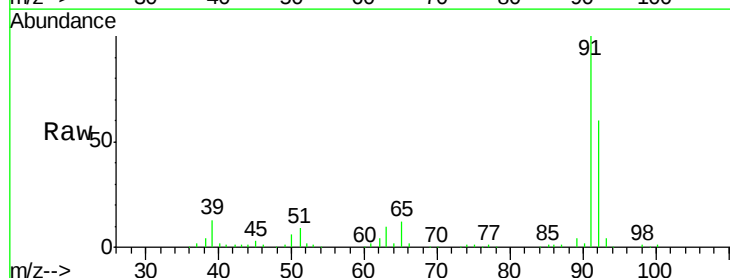
Acq: 7 Feb 2019 15:18

Tgt Ion: 92 Resp: 101536

Ion Ratio Lower Upper

92 100

91 166.2 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

80000

60000

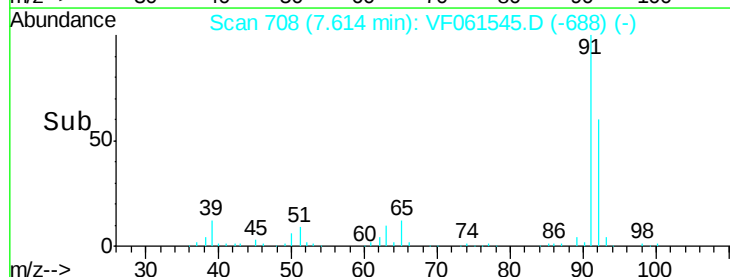
40000

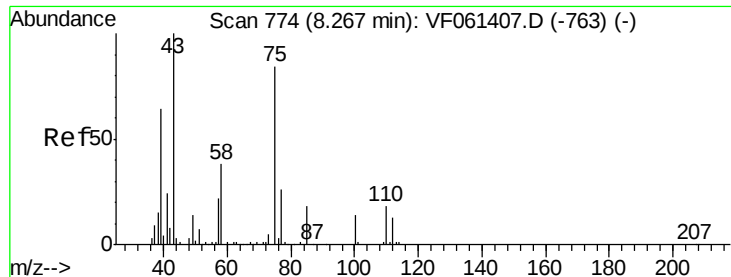
20000

0

7.50 7.60 7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.430 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion: 75 Resp: 58384

Ion Ratio Lower Upper

75 100

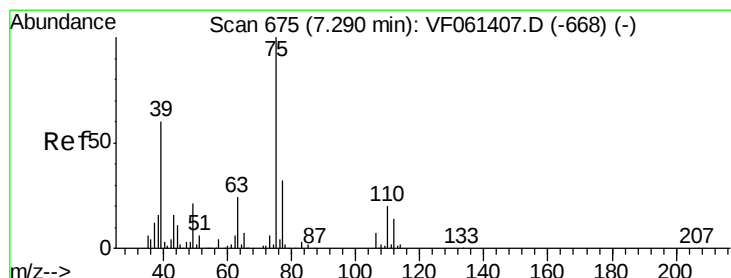
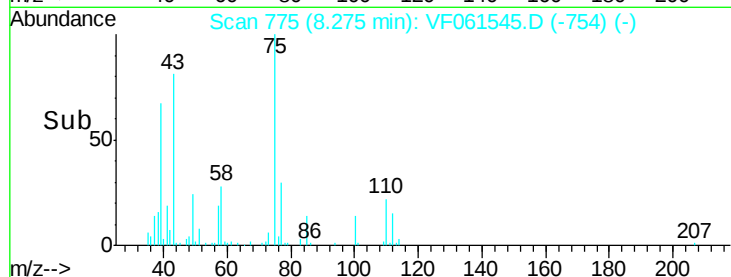
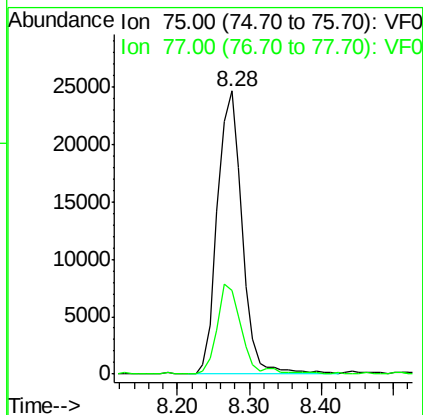
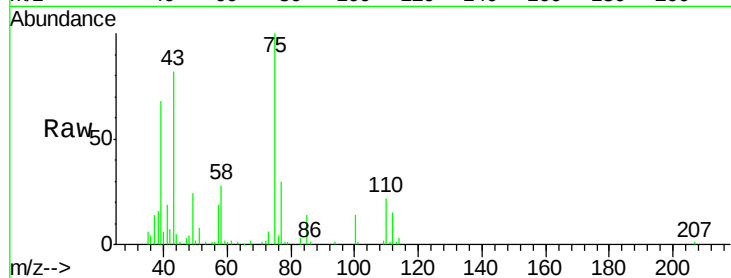
77 29.7 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#54

cis-1,3-Dichloropropene

Concen: 19.911 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

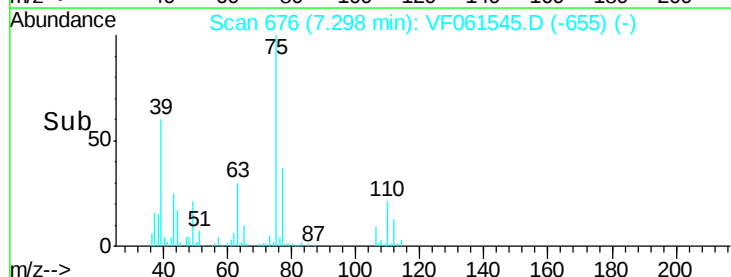
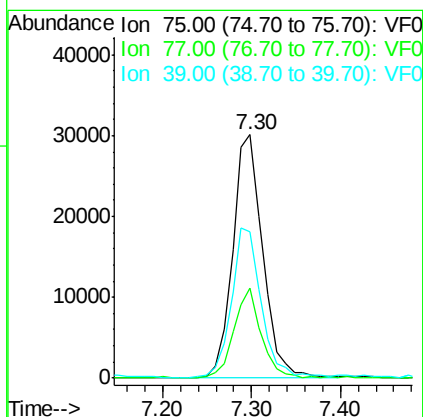
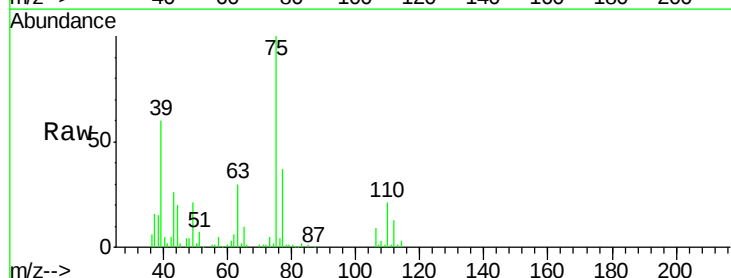
Tgt Ion: 75 Resp: 71125

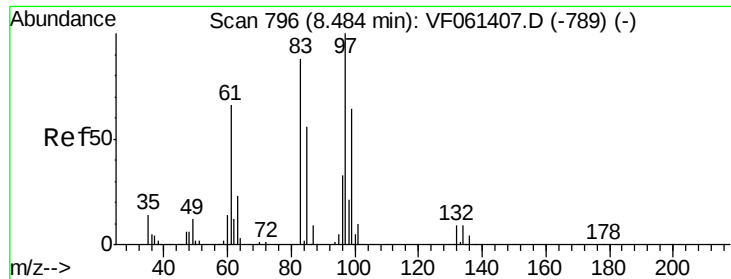
Ion Ratio Lower Upper

75 100

77 37.2 25.4 38.0

39 60.2 47.8 71.8





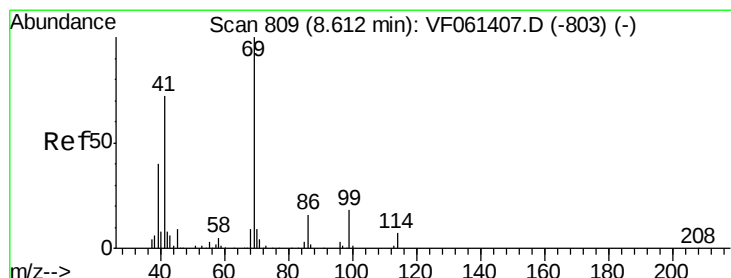
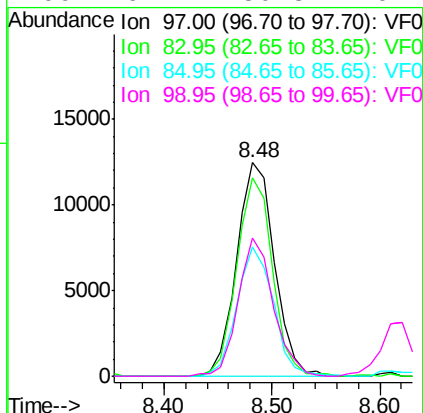
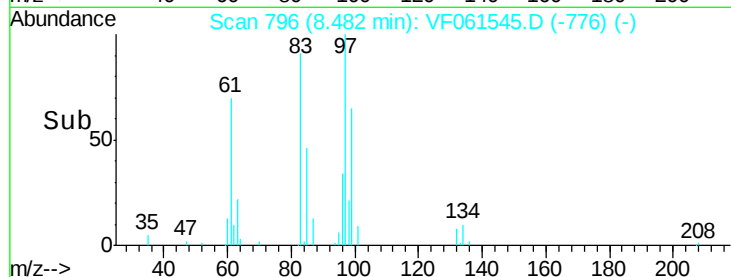
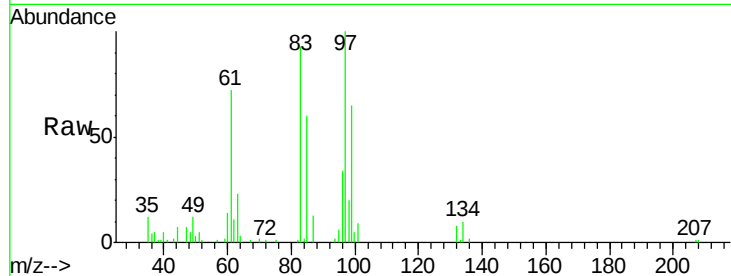
#55
 1,1,2-Trichloroethane
 Concen: 19.471 ug/l
 RT: 8.48 min Scan# 796
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBS01

Tot Ion:	97	Resp:	30350
Ion	Ratio	Lower	Upper
97	100		
83	93.2	70.4	105.6
85	60.3	44.7	67.1
99	64.7	50.8	76.2

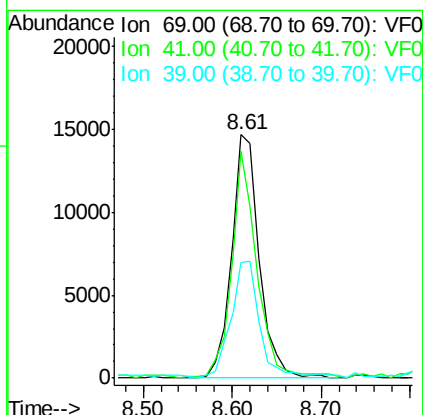
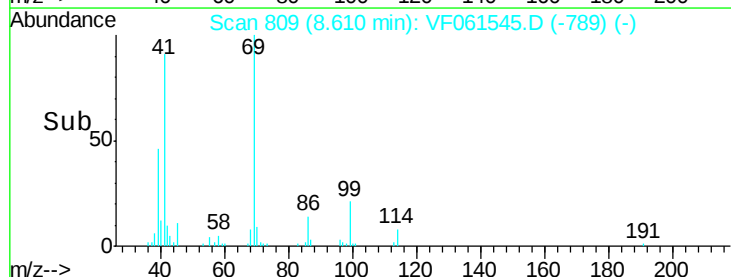
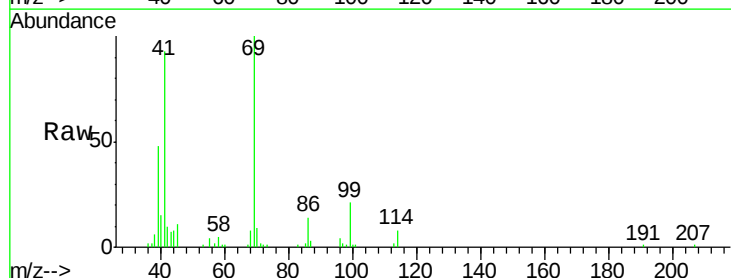
Manual Integrations
 APPROVED

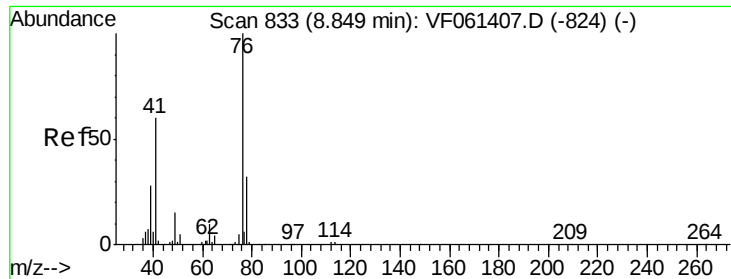
MMDadoda
 2/11/2019 12:35:57 PM



#56
 Ethyl methacrylate
 Concen: 17.607 ug/l
 RT: 8.61 min Scan# 809
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion:	69	Resp:	31930
Ion	Ratio	Lower	Upper
69	100		
41	93.2	57.5	86.3#
39	47.7	32.0	48.0





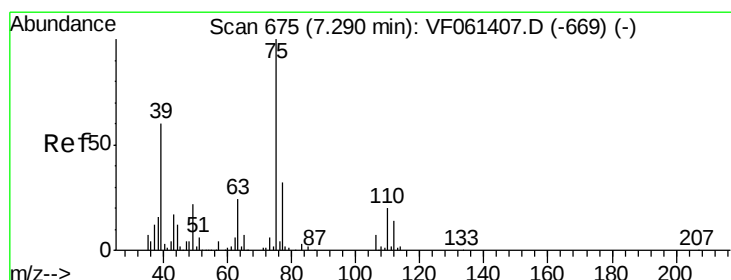
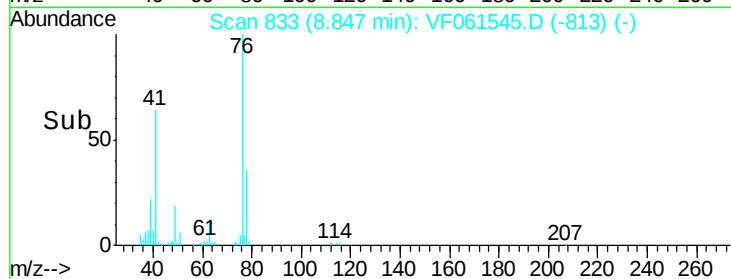
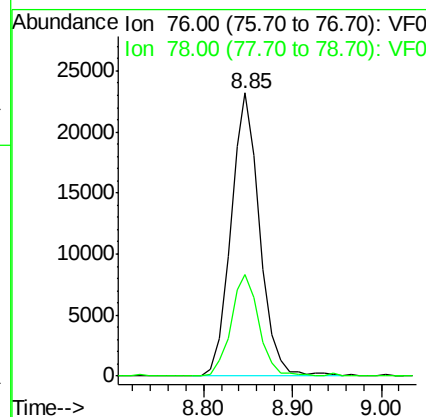
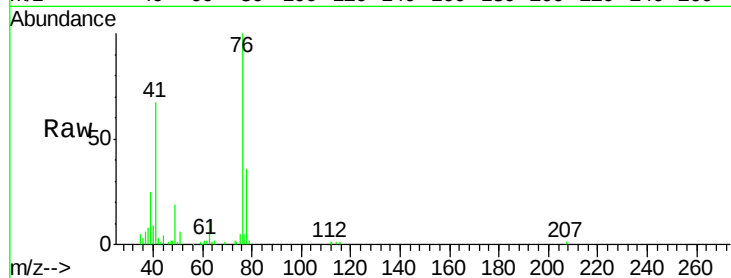
#57
 1,3-Dichloropropane
 Concen: 17.847 ug/l
 RT: 8.85 min Scan# 833
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.9	25.3	37.9

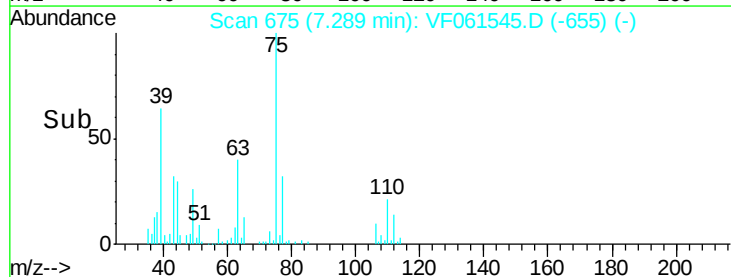
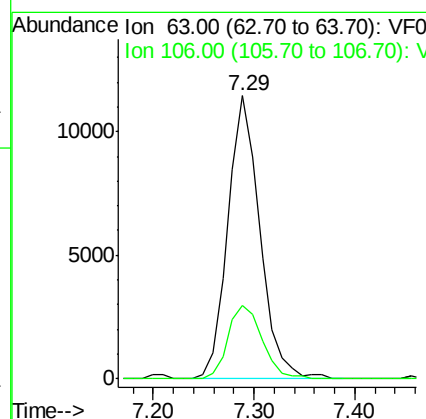
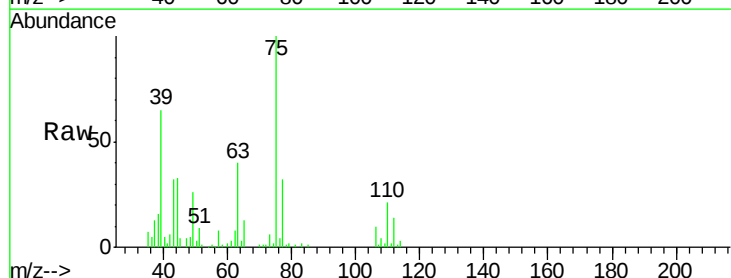
Manual Integrations
 APPROVED

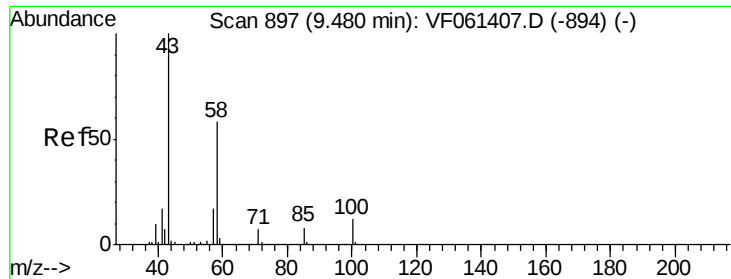
MMDadoda
 2/11/2019 12:35:57 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 145.959 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.9	32.9





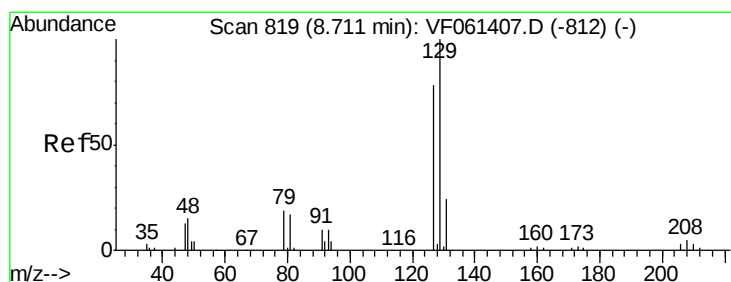
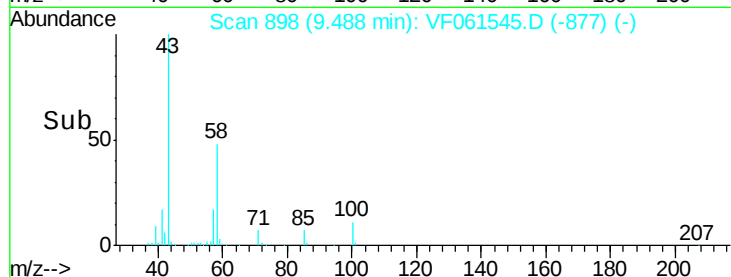
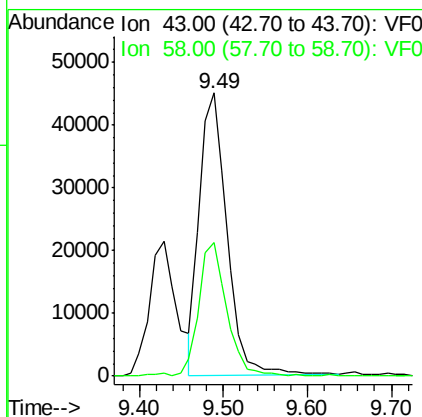
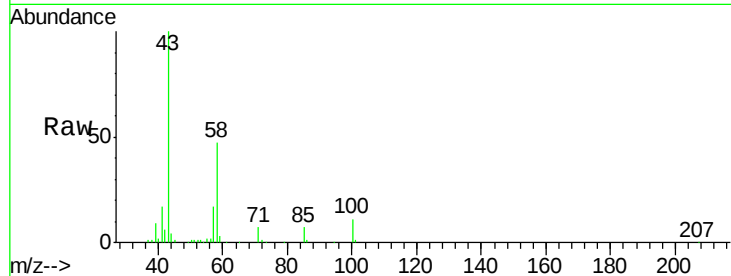
#59
2-Hexanone
Concen: 105.086 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion: 43 Resp: 101238
Ion Ratio Lower Upper
43 100
58 47.4 25.9 77.6

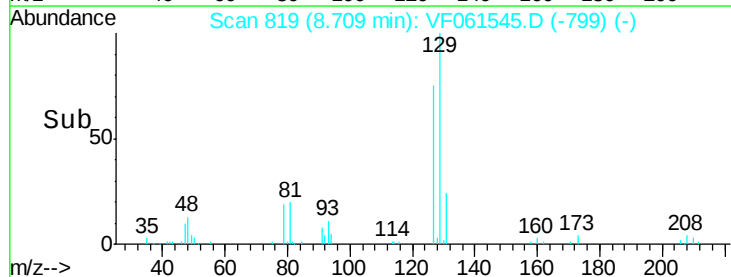
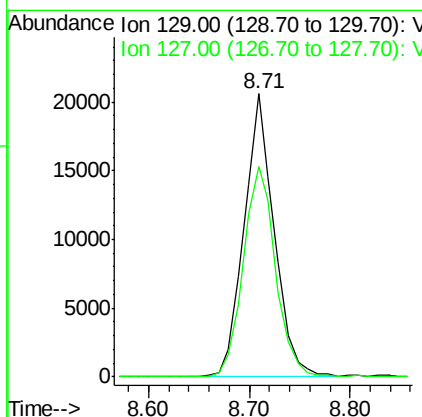
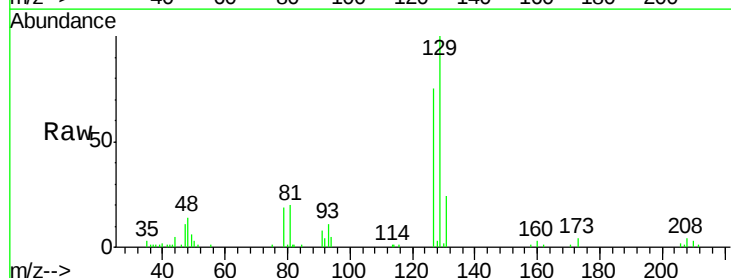
Manual Integrations
APPROVED

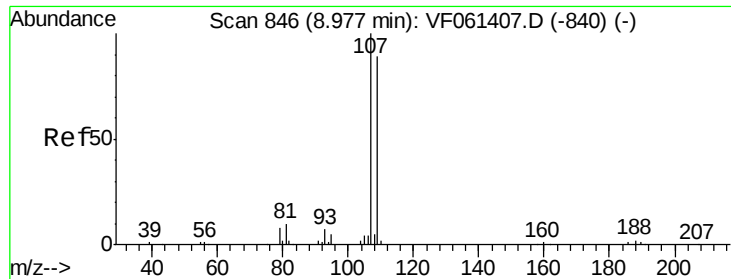
MMDadoda
2/11/2019 12:35:57 PM



#60
Dibromochloromethane
Concen: 18.707 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion: 129 Resp: 42628
Ion Ratio Lower Upper
129 100
127 74.5 39.1 117.2





#61

1,2-Dibromoethane

Concen: 18.530 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion:107 Resp: 33065

Ion Ratio Lower Upper

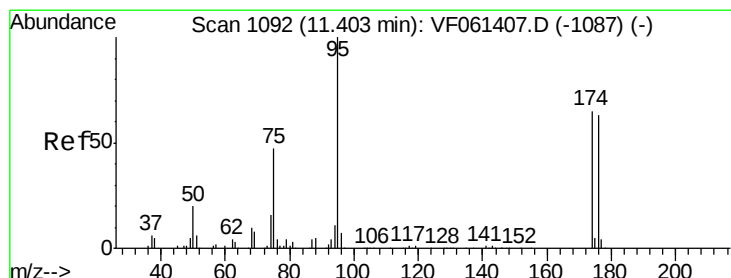
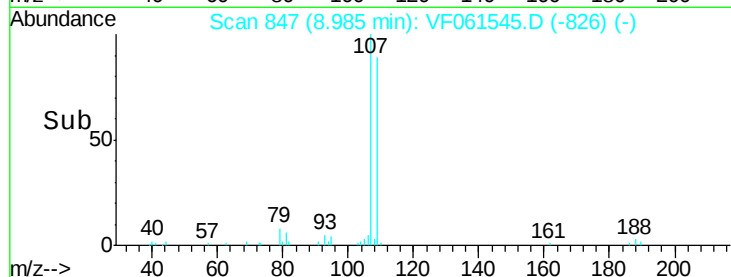
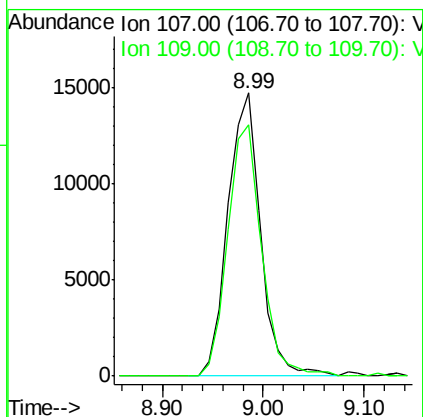
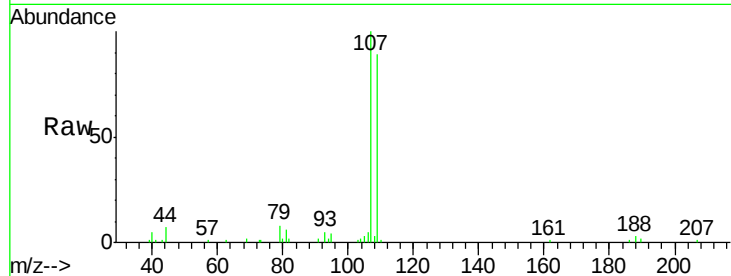
107 100

109 88.7 70.8 106.2

Manual Integrations
APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#62

4-Bromofluorobenzene

Concen: 39.949 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

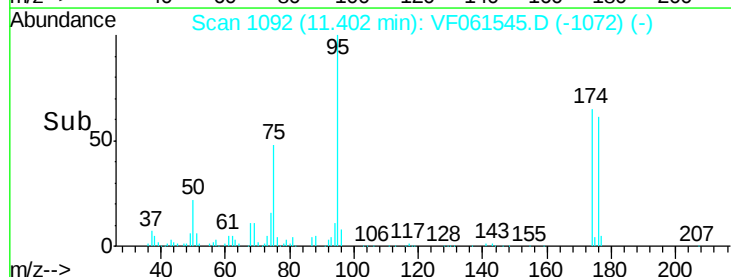
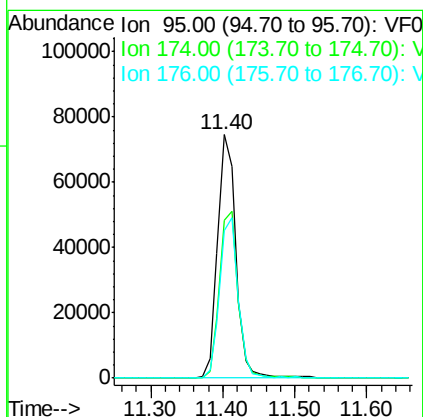
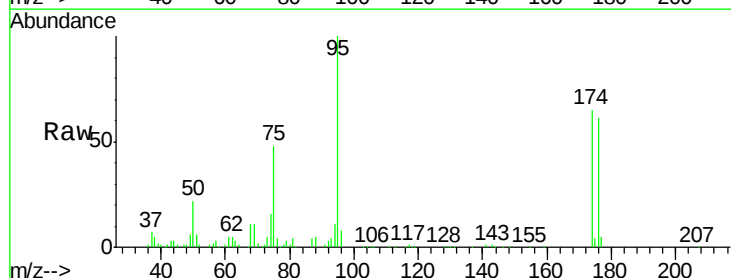
Tgt Ion: 95 Resp: 130372

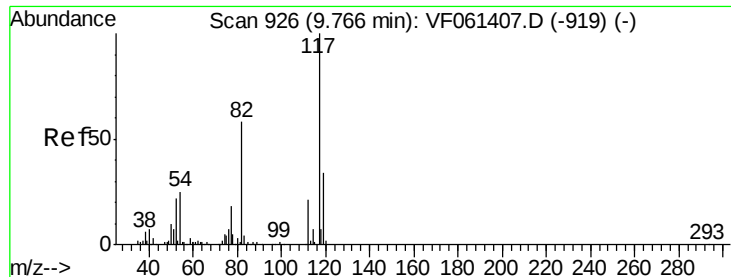
Ion Ratio Lower Upper

95 100

174 64.6 0.0 130.4

176 60.6 0.0 126.2





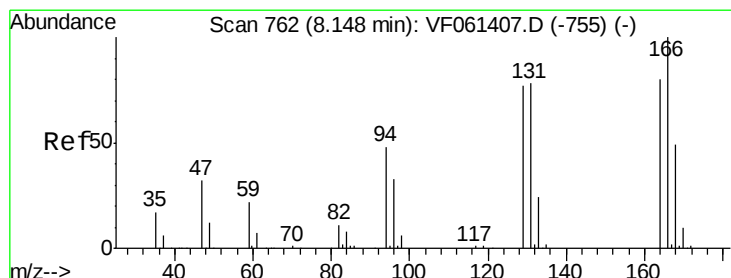
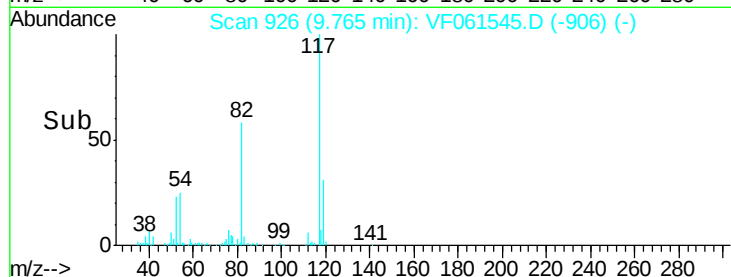
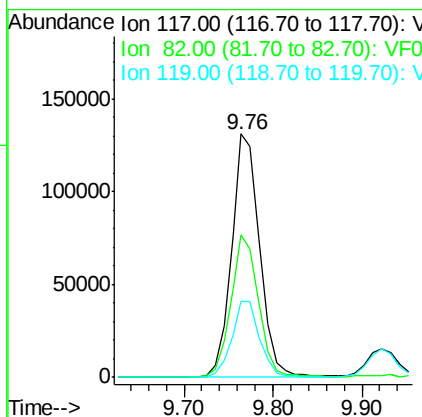
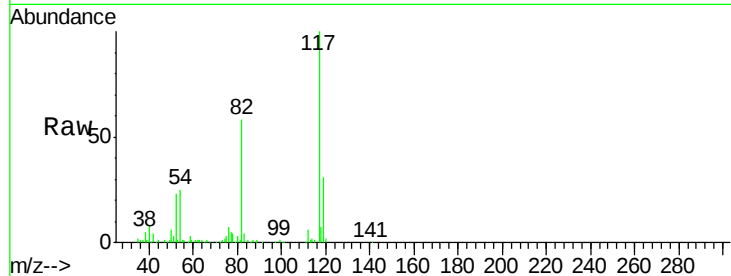
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	289137		
82	58.5	46.4	69.6	
119	31.0	27.2	40.8	

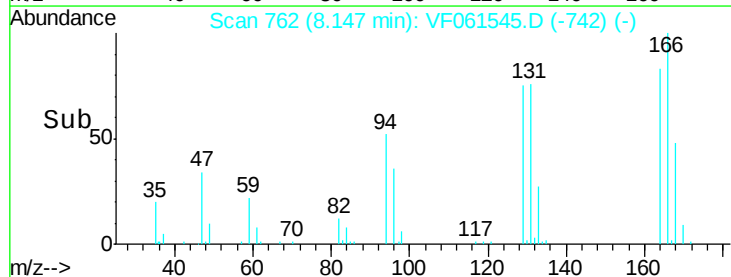
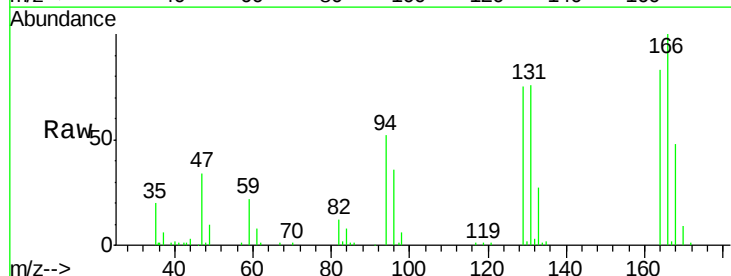
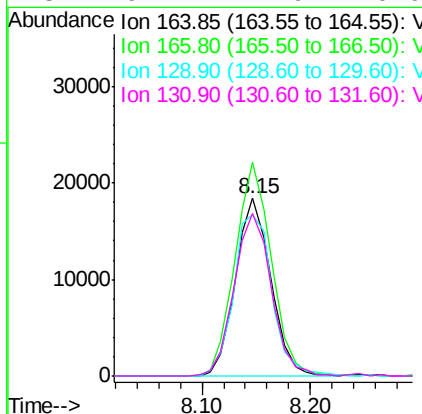
Manual Integrations
APPROVED

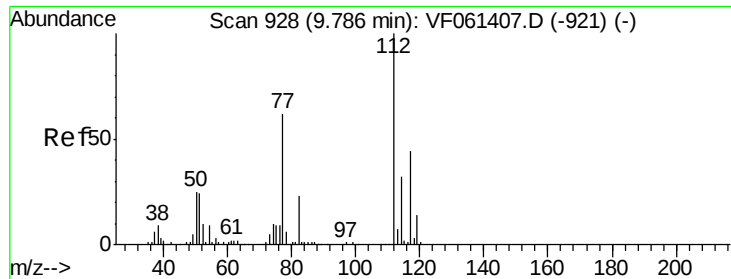
MMDadoda
2/11/2019 12:35:57 PM



#64
Tetrachloroethene
Concen: 19.216 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	41783		
166	120.1	99.6	149.4	
129	90.5	76.4	114.6	
131	91.7	77.9	116.9	





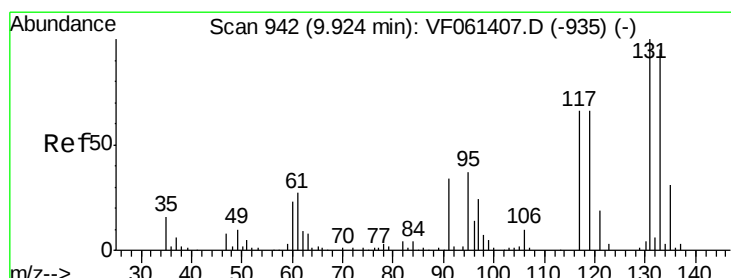
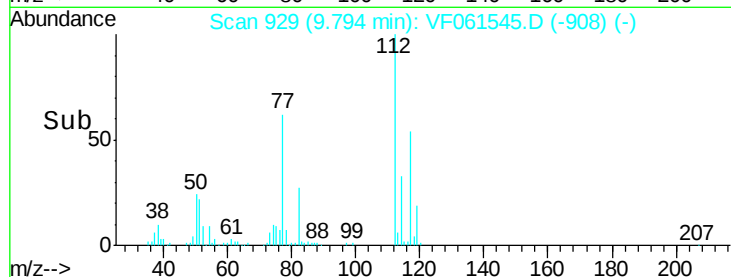
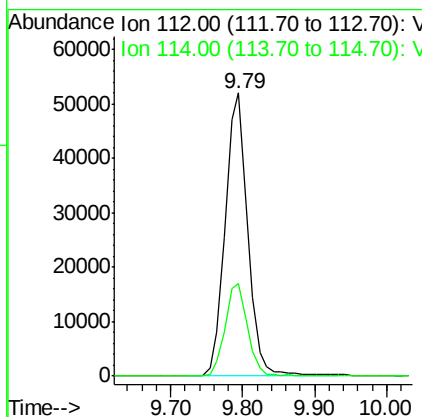
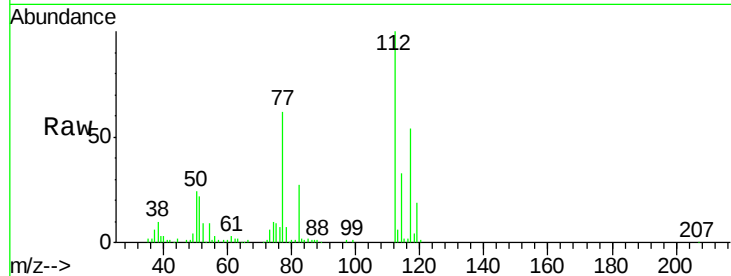
#65
Chlorobenzene
Concen: 19.214 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBSD01

Tot Ion:112 Resp: 112972
Ion Ratio Lower Upper
112 100
114 32.7 25.4 38.0

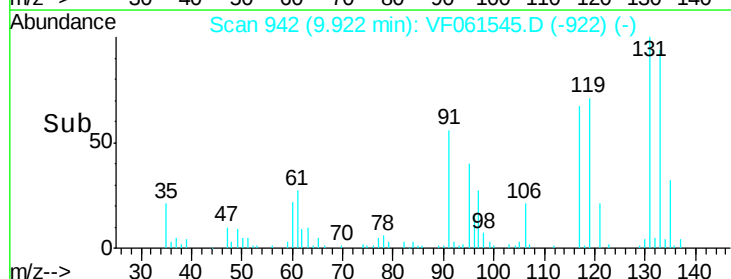
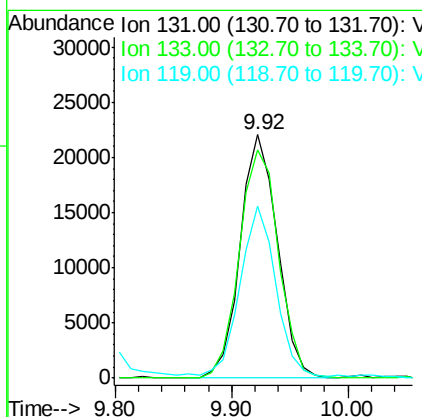
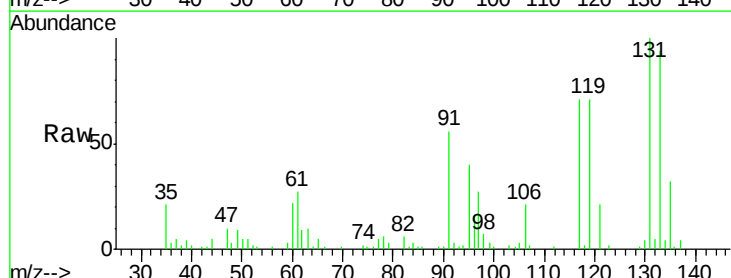
Manual Integrations
APPROVED

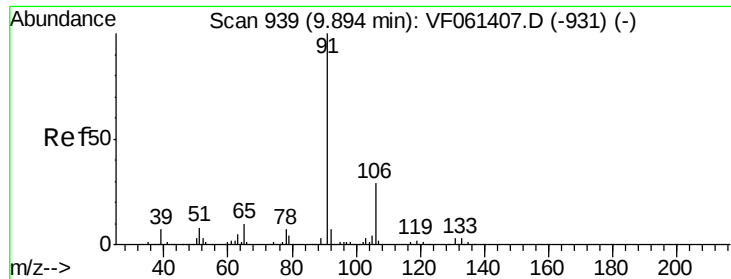
MMDadoda
2/11/2019 12:35:57 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.809 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion:131 Resp: 48740
Ion Ratio Lower Upper
131 100
133 93.9 47.4 142.2
119 70.7 33.1 99.3





#67

Ethyl Benzene

Concen: 20.407 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion: 91 Resp: 219227

Ion Ratio Lower Upper

91 100

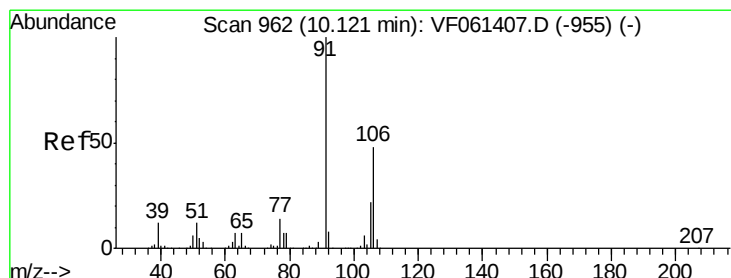
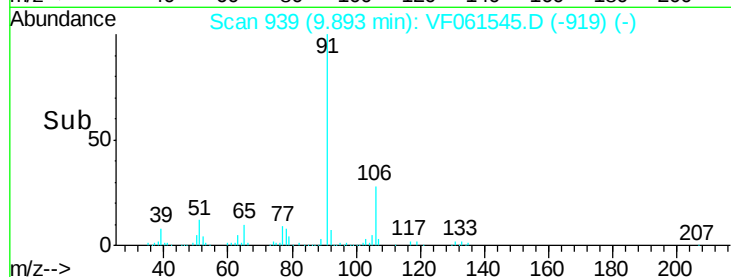
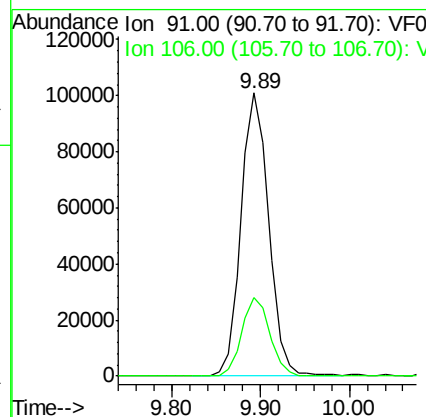
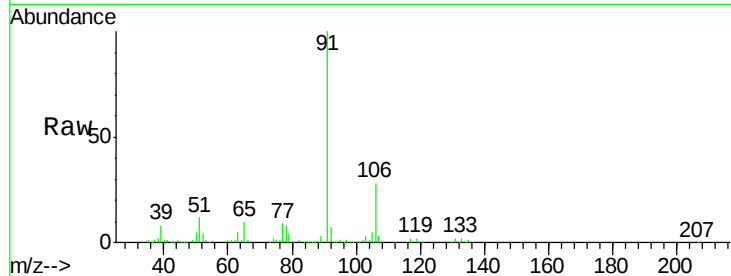
106 27.7 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

2/11/2019 12:35:57 PM



#68

m/p-Xylenes

Concen: 37.485 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061545.D

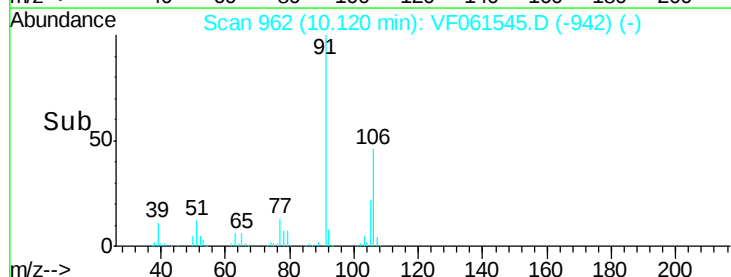
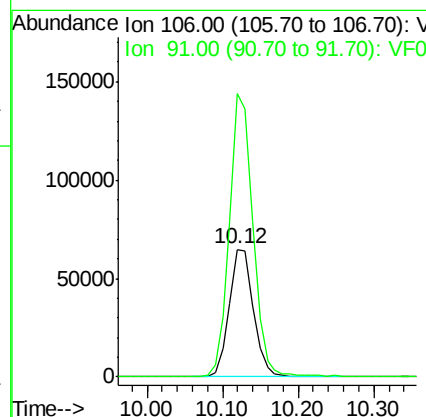
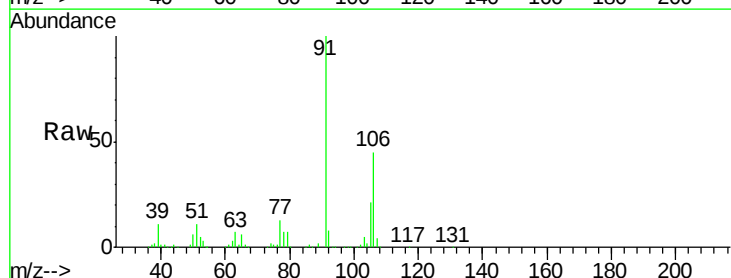
Acq: 7 Feb 2019 15:18

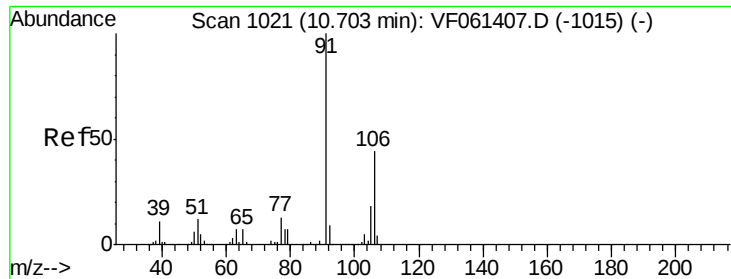
Tgt Ion: 106 Resp: 144835

Ion Ratio Lower Upper

106 100

91 221.8 166.2 249.4





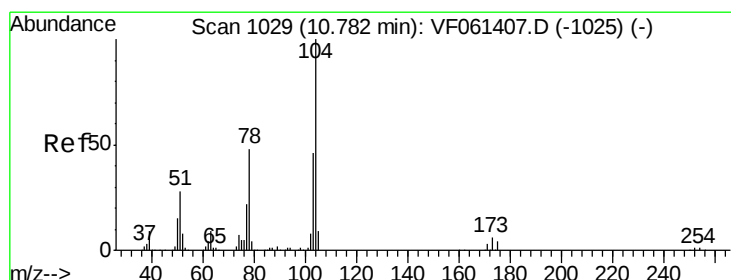
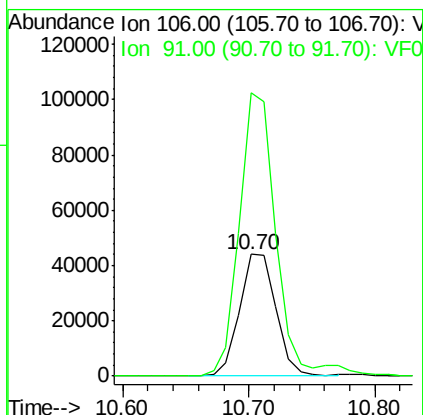
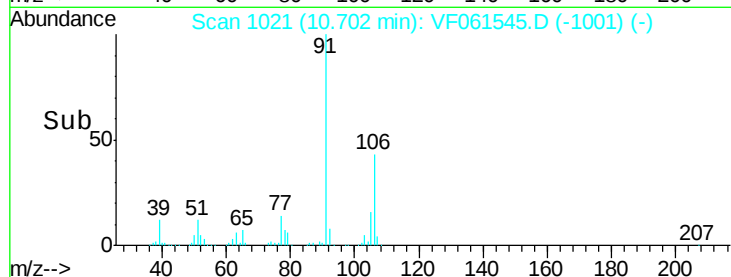
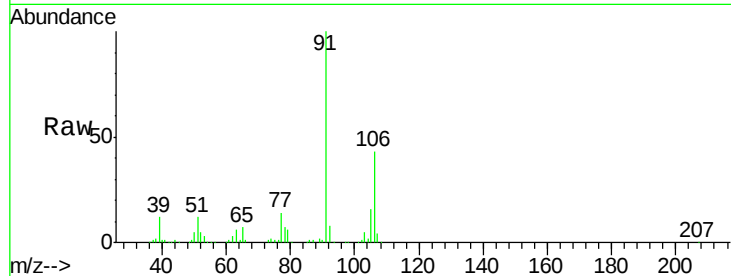
#69
o-Xylene
Concen: 21.225 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion:106 Resp: 88883
Ion Ratio Lower Upper
106 100
91 232.5 113.3 339.8

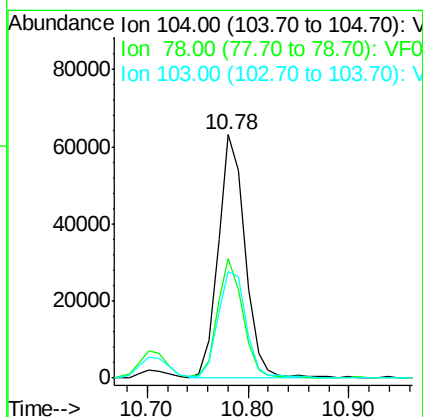
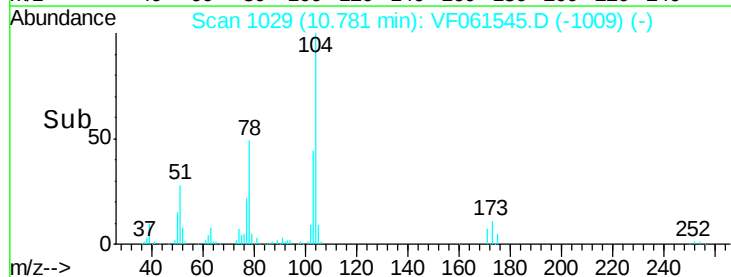
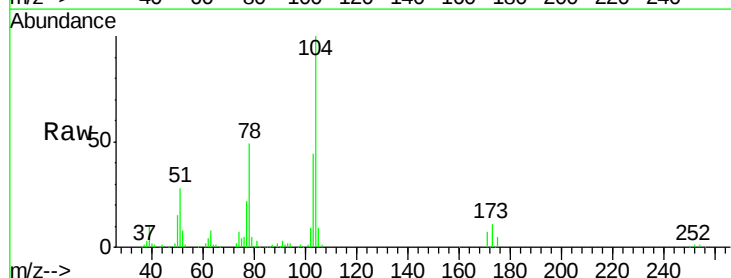
Manual Integrations
APPROVED

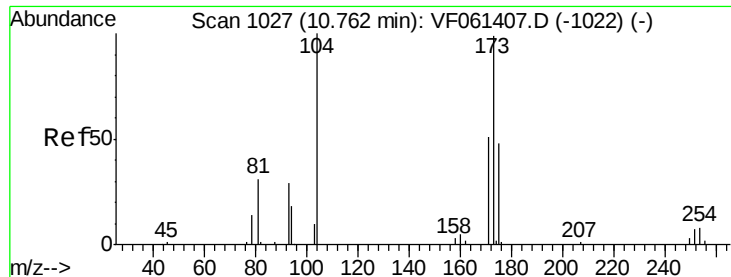
MMDadoda
2/11/2019 12:35:57 PM



#70
Styrene
Concen: 20.525 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion:104 Resp: 117654
Ion Ratio Lower Upper
104 100
78 49.0 38.8 58.2
103 43.9 37.0 55.6





#71

Bromoform

Concen: 21.535 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion:173 Resp: 22664

Ion Ratio Lower Upper

173 100

175 51.0 24.1 72.4

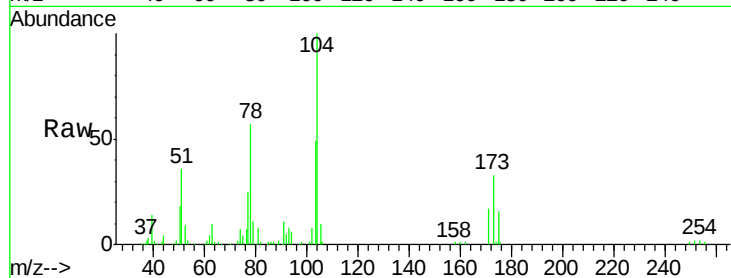
254 6.4 0.0 0.0#

Manual Integrations

APPROVED

MMDadoda

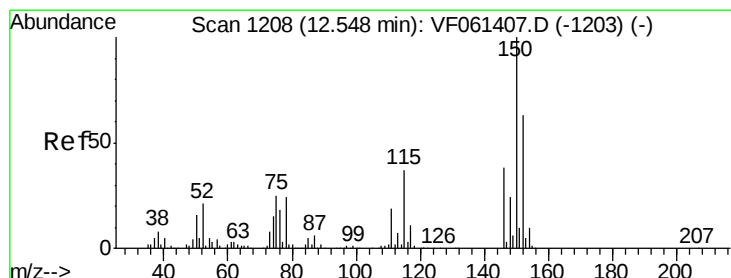
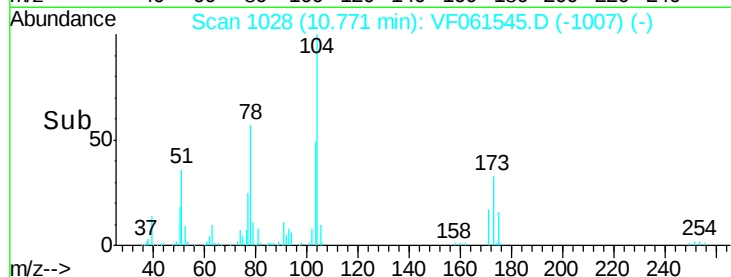
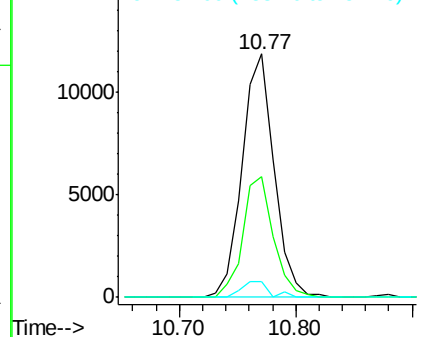
2/11/2019 12:35:57 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

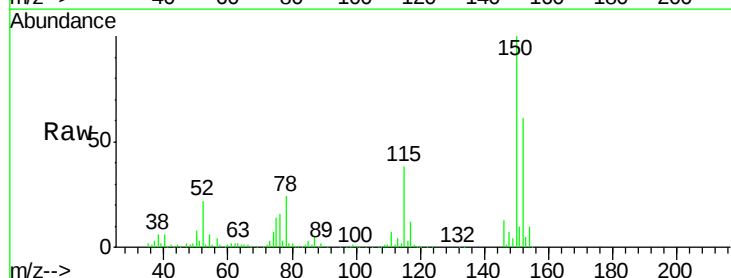
Tgt Ion:152 Resp: 147485

Ion Ratio Lower Upper

152 100

115 61.4 30.0 90.0

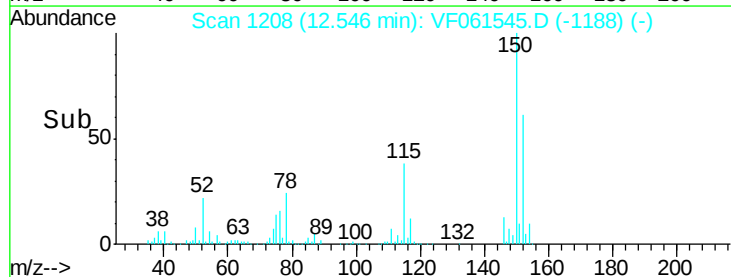
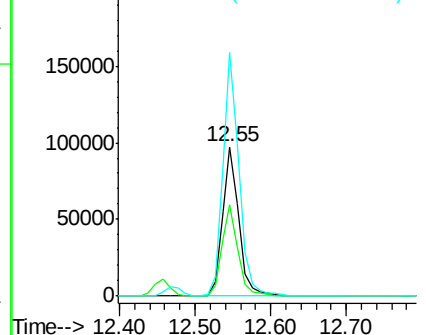
150 163.0 0.0 321.4

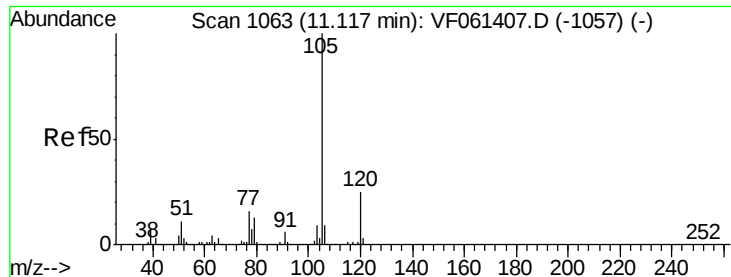


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.564 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBS01

Tot Ion:105 Resp: 258668

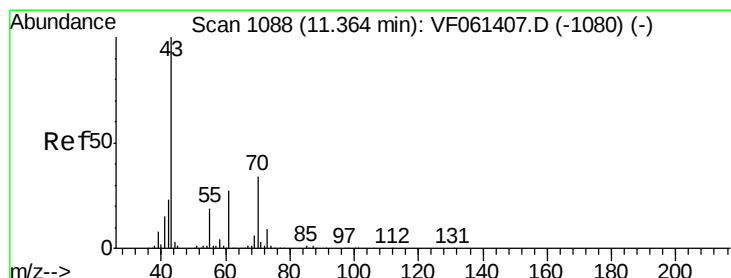
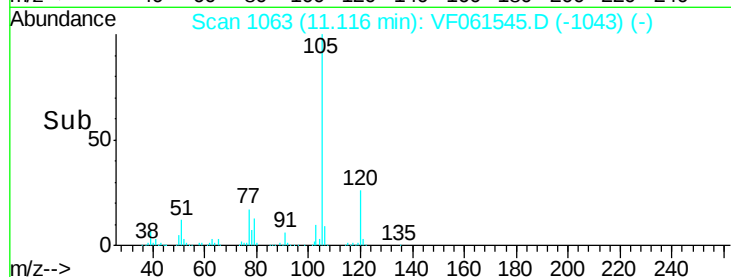
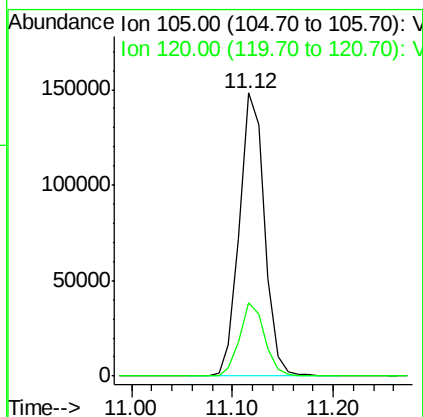
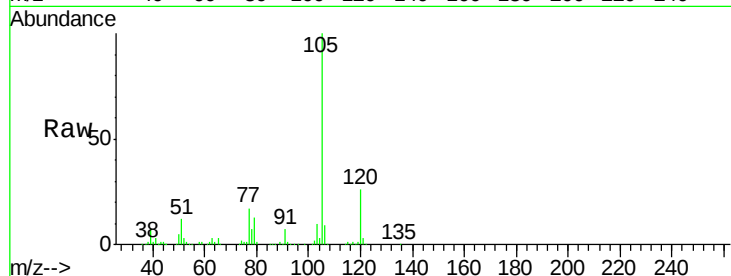
Ion Ratio Lower Upper

105 100

120 25.8 12.6 37.8

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#74

N-ethyl acetate

Concen: 23.155 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion: 43 Resp: 65677

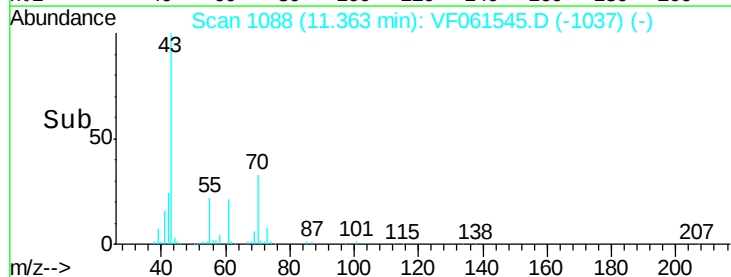
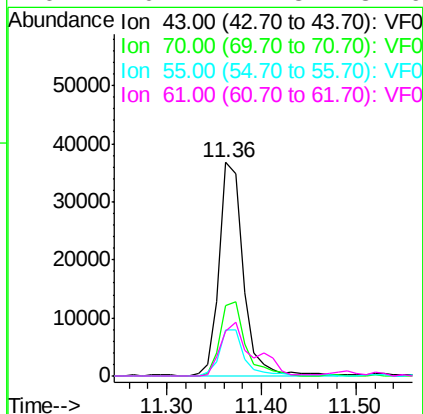
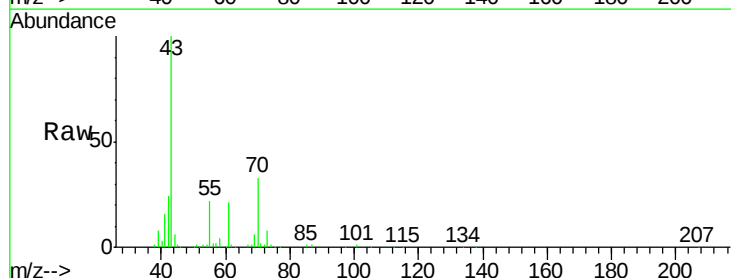
Ion Ratio Lower Upper

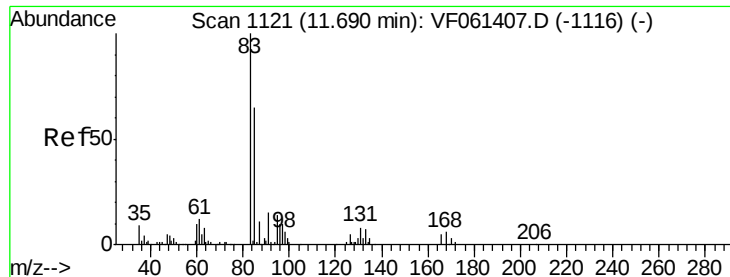
43 100

70 33.2 27.6 41.4

55 21.6 15.4 23.2

61 20.7 21.8 32.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 20.515 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

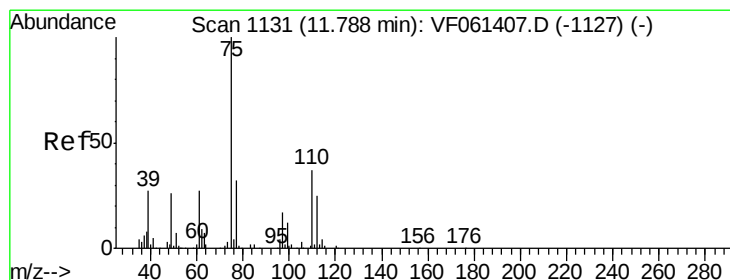
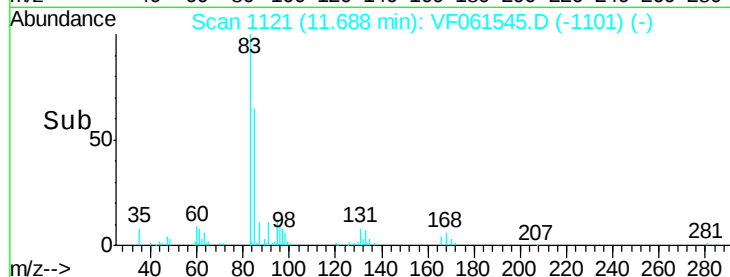
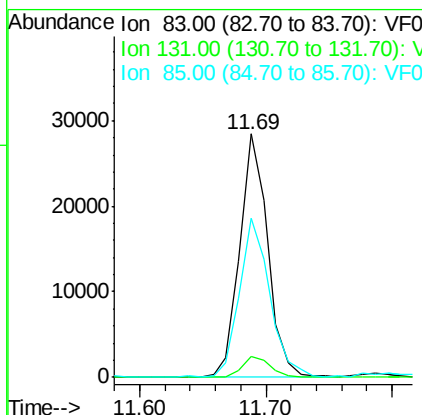
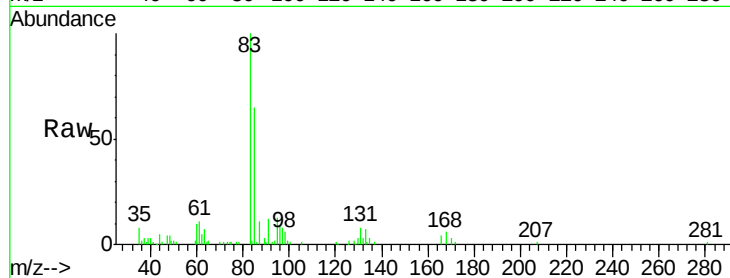
ClientSampleId :

VF0207SBSD01

Tot Ion:	83	Resp:	43838
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.0	12.2
85	65.1	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#76

1,2,3-Trichloropropane

Concen: 18.929 ug/l

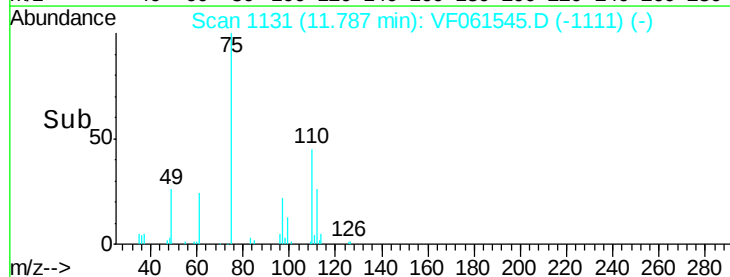
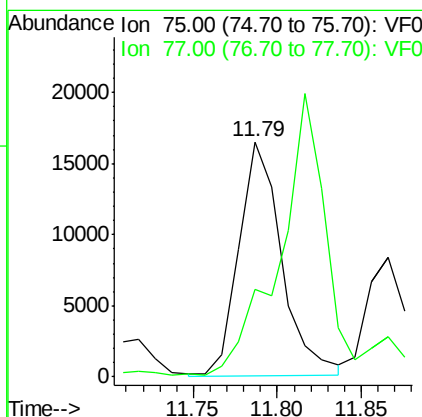
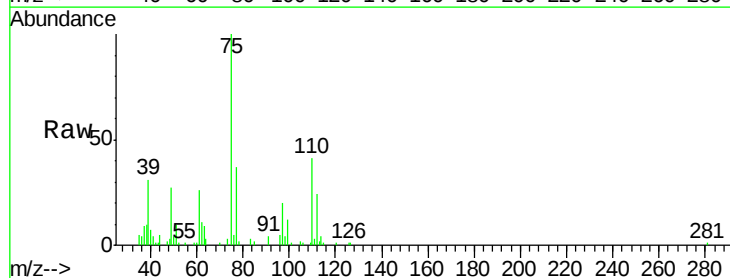
RT: 11.79 min Scan# 1131

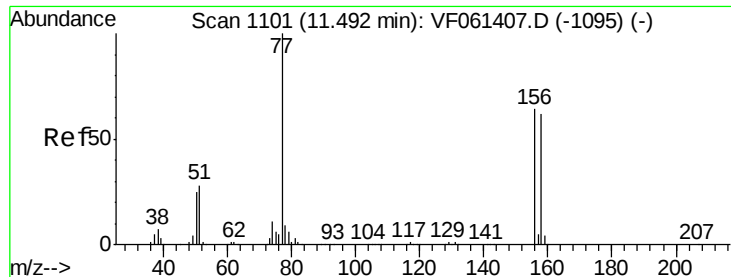
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	75	Resp:	29065
Ion Ratio	Lower	Upper	
75	100		
77	37.2	16.1	48.3





#77

Bromobenzene

Concen: 20.207 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

ClientSampleId :

VF0207SBSD01

Tot Ion:156 Resp: 51189

Ion Ratio Lower Upper

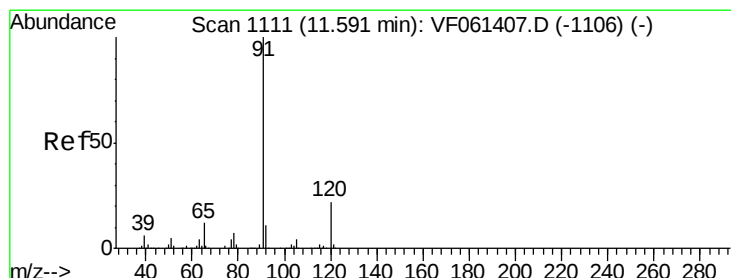
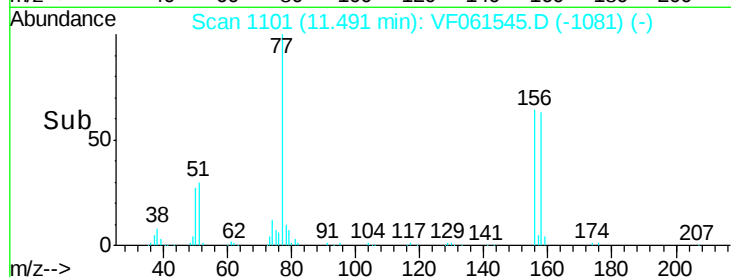
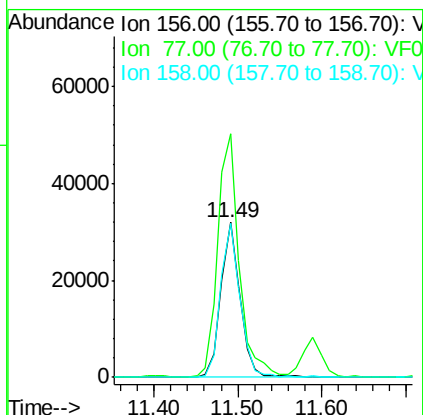
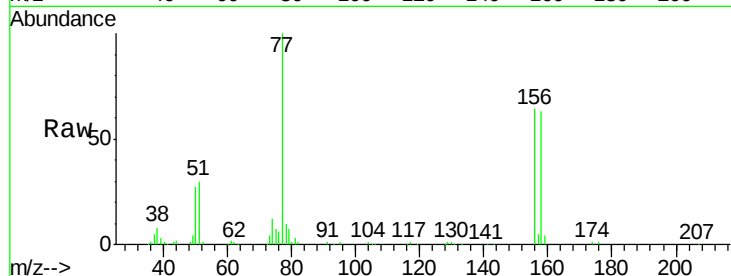
156 100

77 157.0 78.3 234.9

158 99.3 48.9 146.7

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#78

n-propylbenzene

Concen: 19.606 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF061545.D

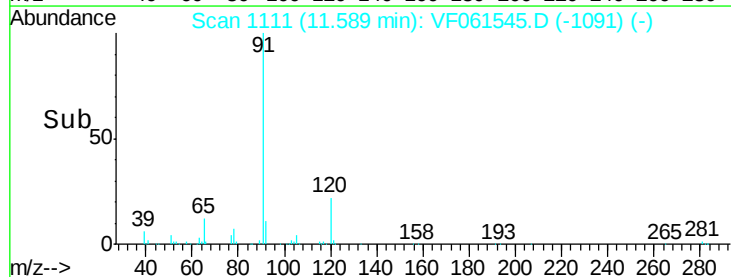
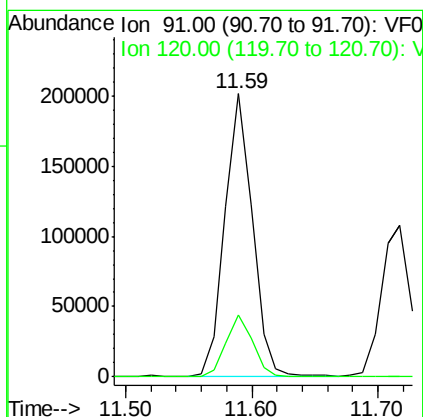
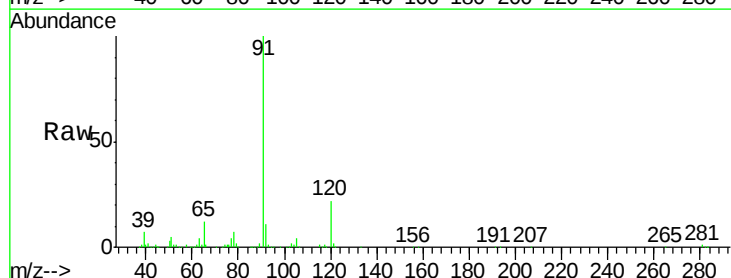
Acq: 7 Feb 2019 15:18

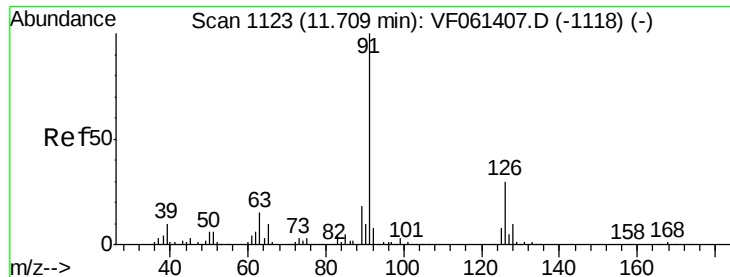
Tgt Ion: 91 Resp: 306660

Ion Ratio Lower Upper

91 100

120 21.7 10.9 32.6





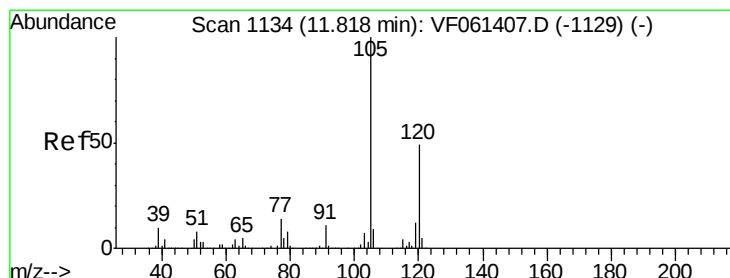
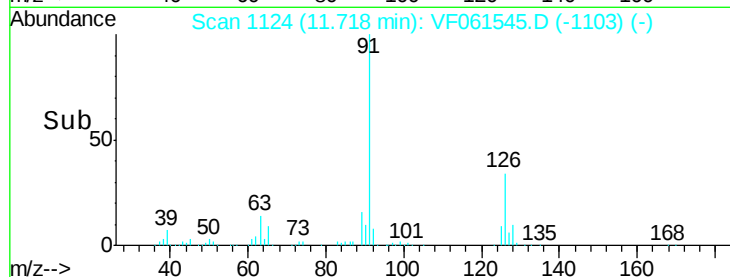
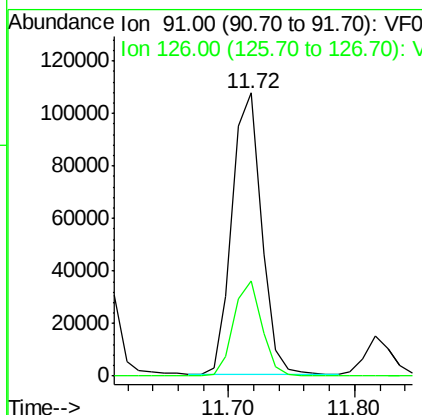
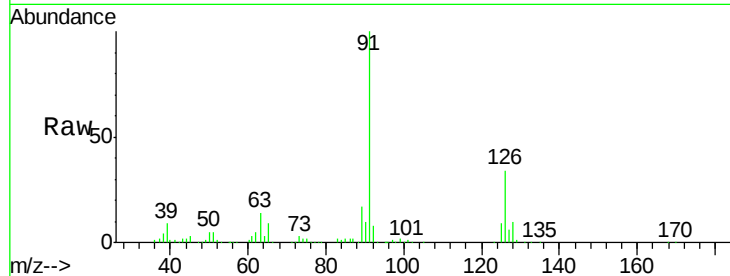
#79
 2-Chlorotoluene
 Concen: 20.887 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBSD01

Tot Ion: 91 Resp: 173835
 Ion Ratio Lower Upper
 91 100
 126 33.7 15.0 45.1

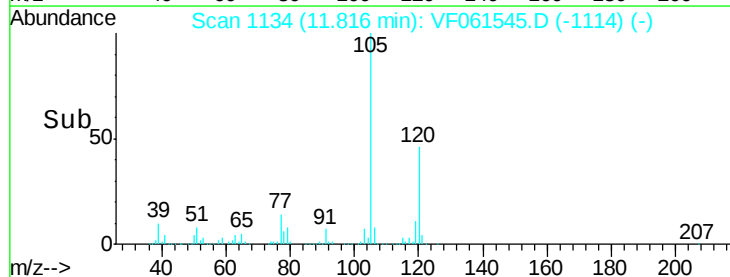
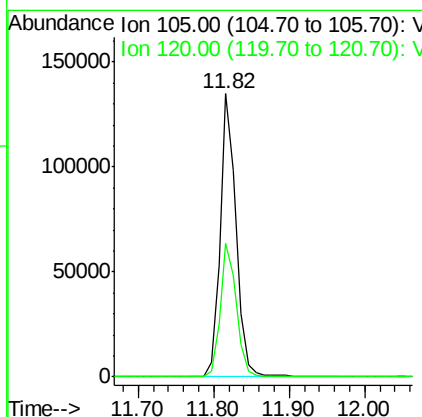
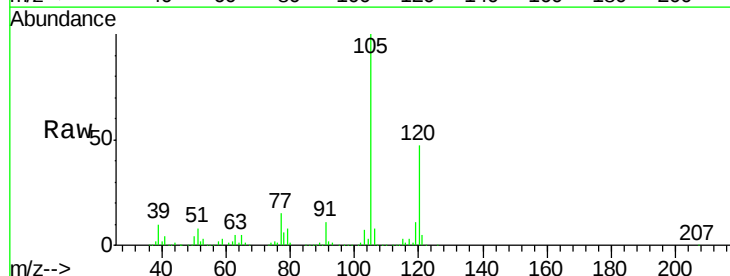
Manual Integrations
 APPROVED

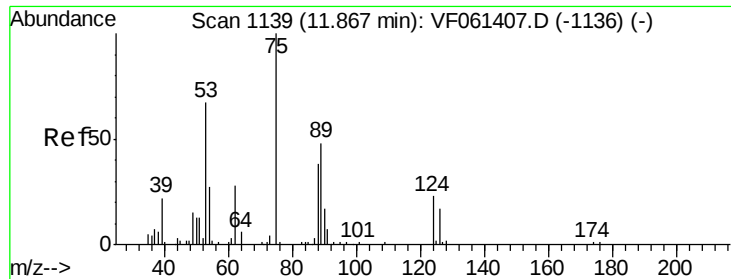
MMDadoda
 2/11/2019 12:35:57 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.569 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion: 105 Resp: 199110
 Ion Ratio Lower Upper
 105 100
 120 47.2 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 21.767 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

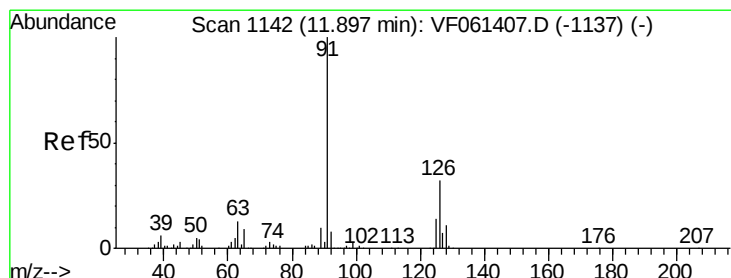
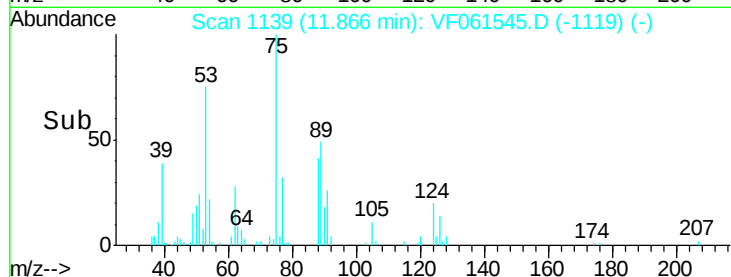
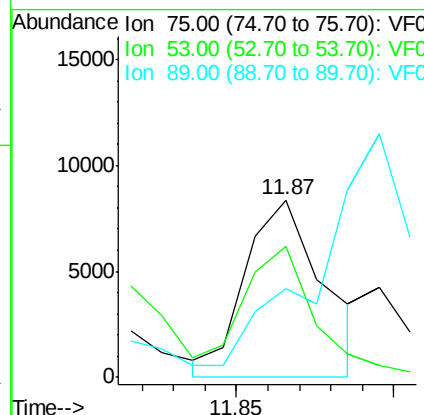
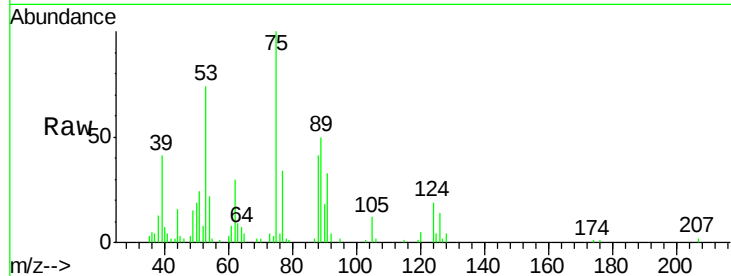
ClientSampleId :

VF0207SBSD01

Tot Ion:	75	Resp:	14529
Ion	Ratio	Lower	Upper
75	100		
53	73.9	57.8	86.6
89	50.2	40.7	61.1

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#82

4-Chlorotoluene

Concen: 19.966 ug/l

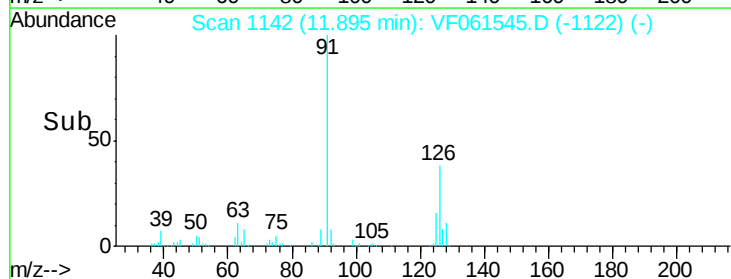
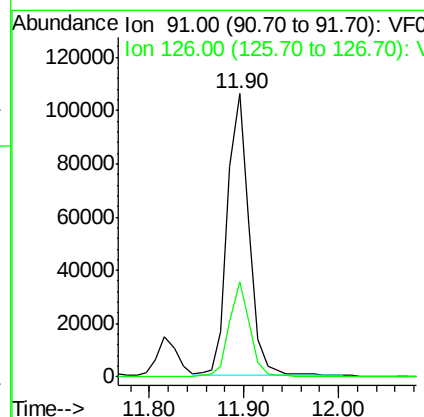
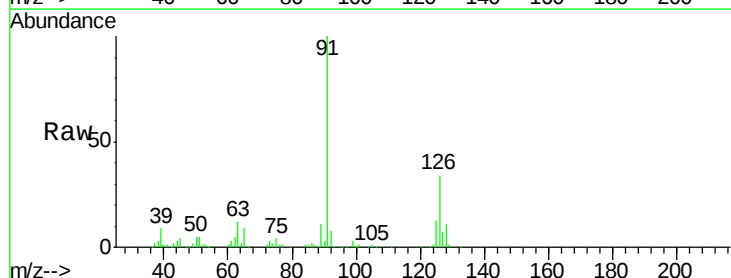
RT: 11.90 min Scan# 1142

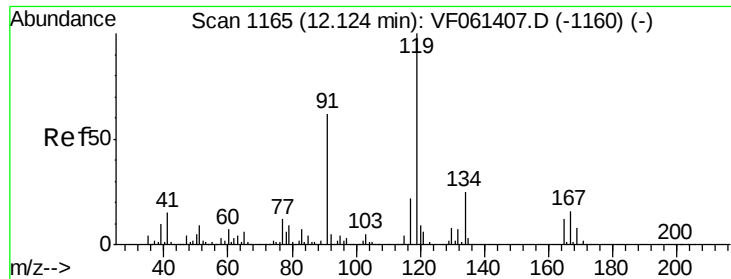
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	91	Resp:	167687
Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.0	47.9





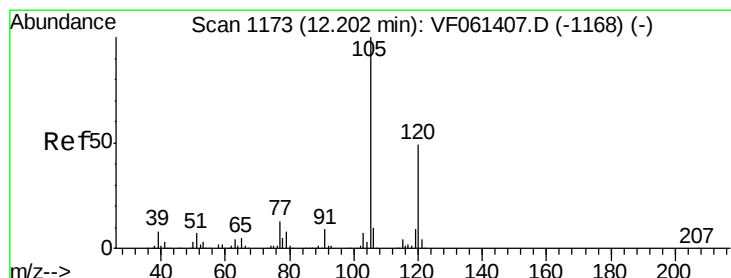
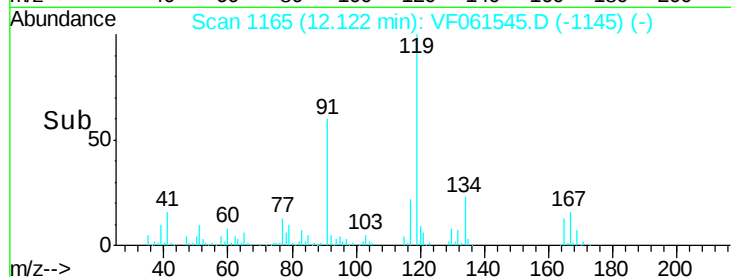
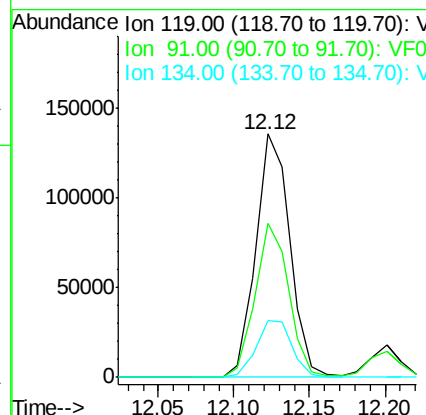
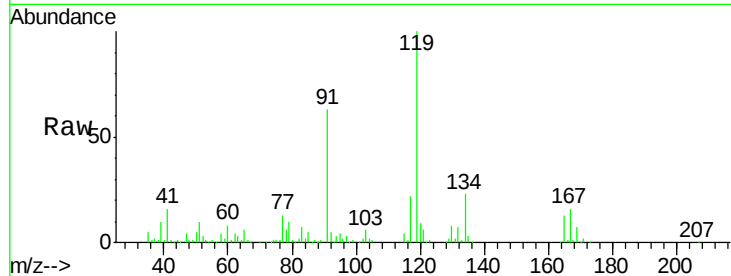
#83
 tert-Butylbenzene
 Concen: 21.418 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	214599		
91	63.4		31.3	93.8
134	23.5		12.4	37.0

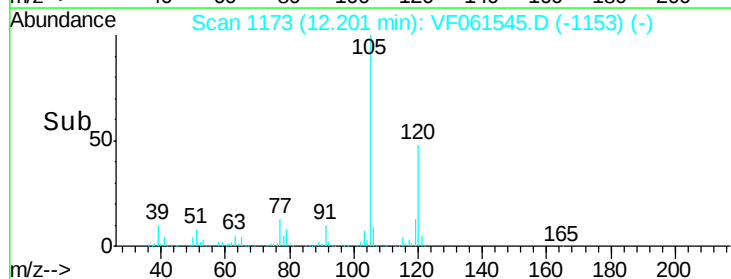
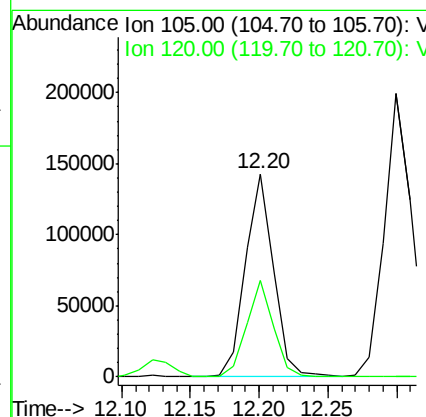
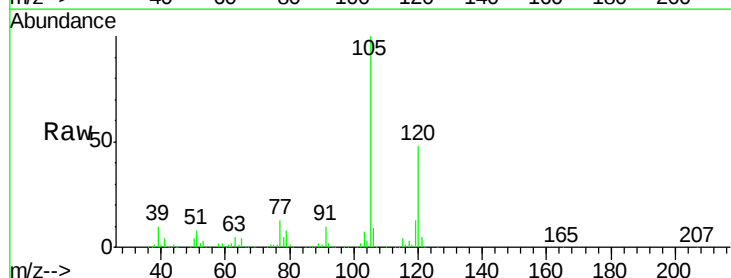
Manual Integrations
 APPROVED

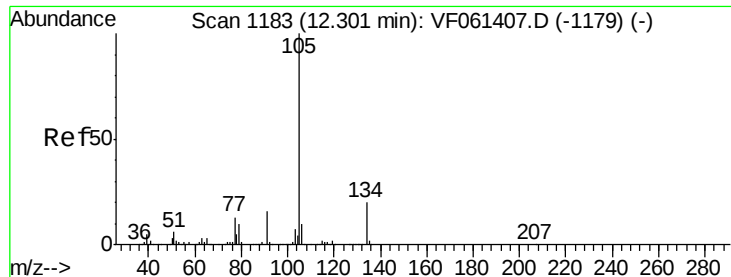
MMDadoda
 2/11/2019 12:35:57 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.390 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	203309		
120	47.7		24.9	74.6





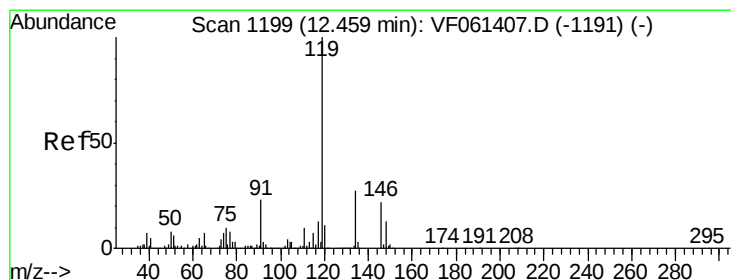
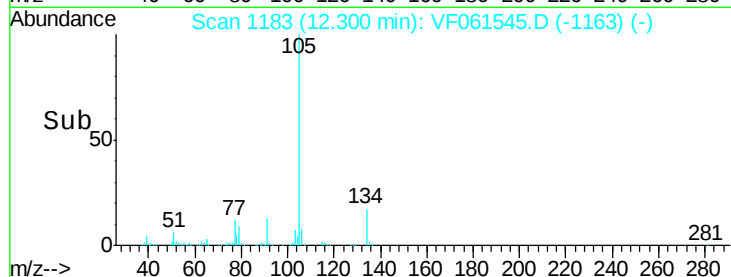
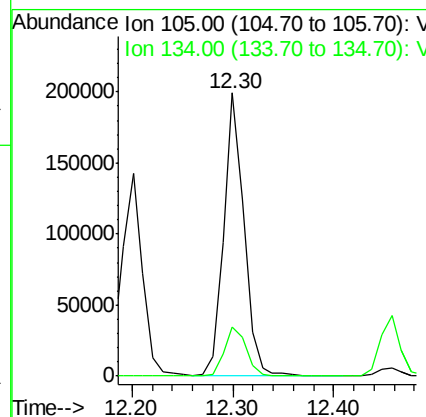
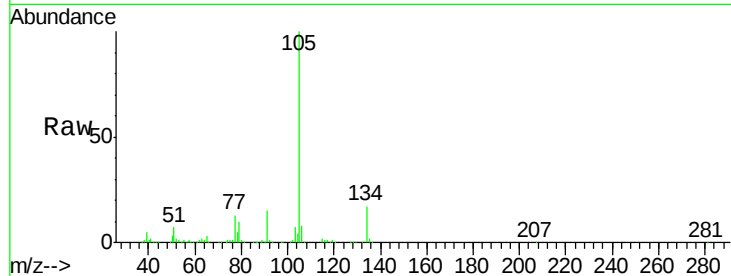
#85
 sec-Butylbenzene
 Concen: 20.593 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.4	10.0	30.0

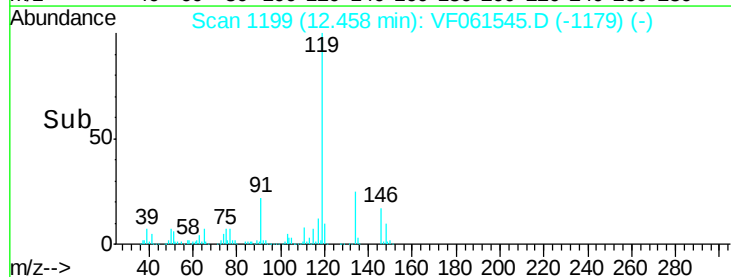
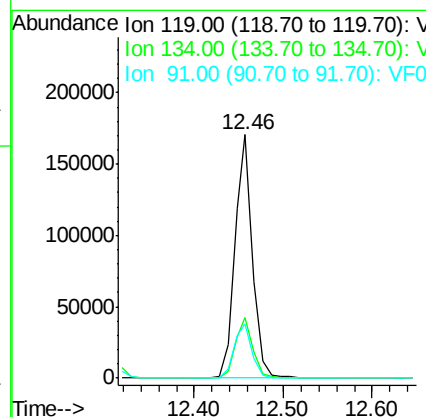
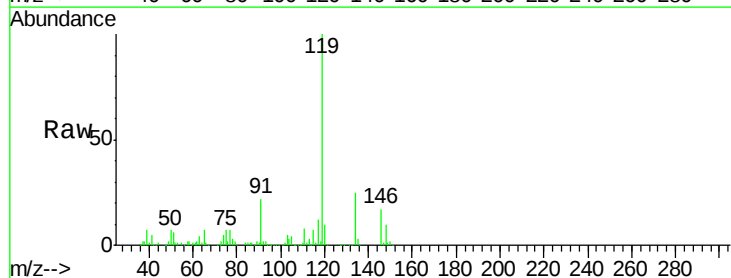
Manual Integrations
 APPROVED

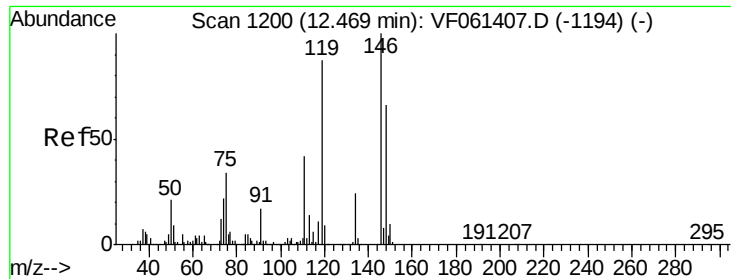
MMDadoda
 2/11/2019 12:35:57 PM



#86
 p-Isopropyltoluene
 Concen: 21.230 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.4	40.2
91	22.2	11.4	34.2





#87

1,3-Dichlorobenzene

Concen: 19.384 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

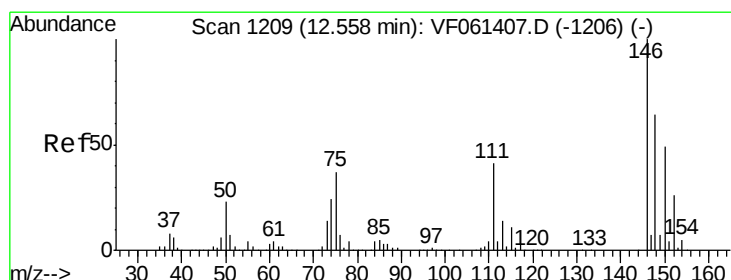
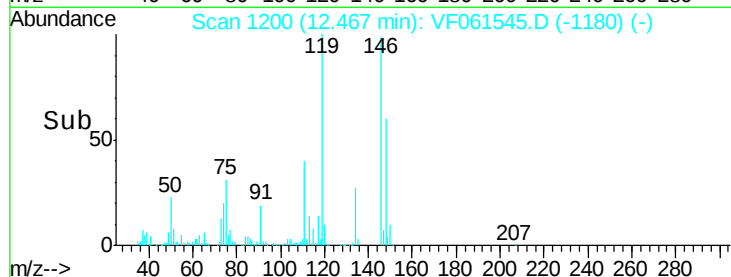
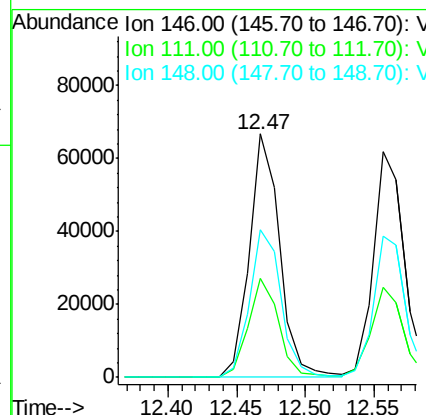
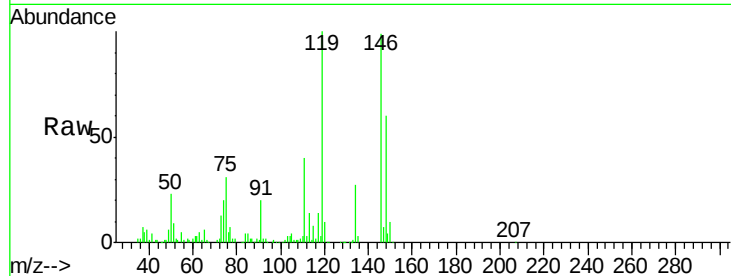
ClientSampleId :

VF0207SBS01

Tot Ion:	146	Resp:	103246
Ion Ratio	Lower	Upper	
146	100		
111	40.7	21.1	63.4
148	60.6	32.9	98.6

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#88

1,4-Dichlorobenzene

Concen: 20.620 ug/l

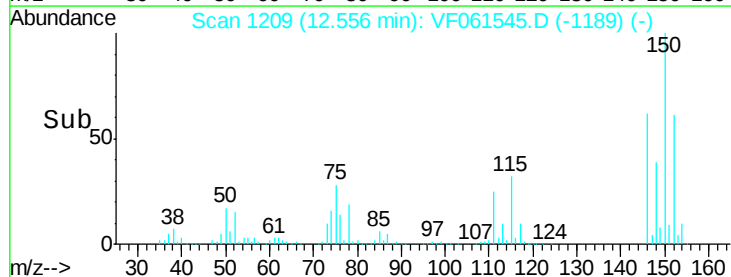
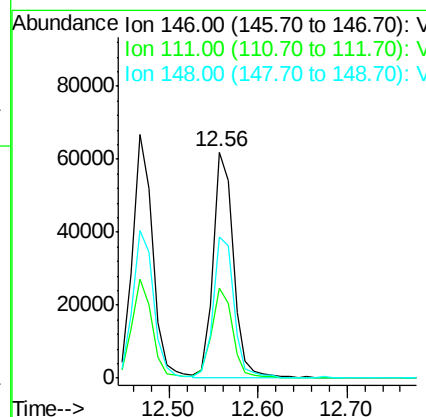
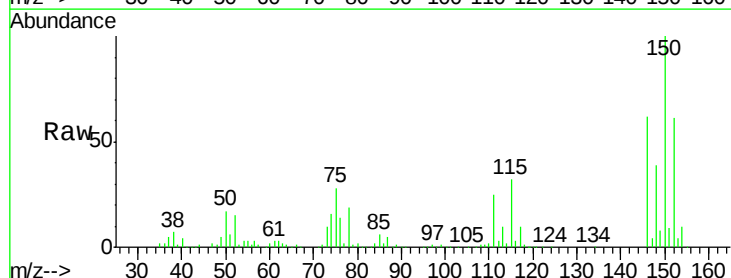
RT: 12.56 min Scan# 1209

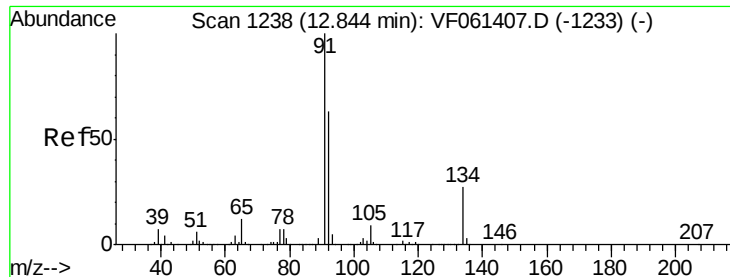
Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	146	Resp:	98708
Ion Ratio	Lower	Upper	
146	100		
111	40.0	20.8	62.2
148	62.6	32.1	96.5





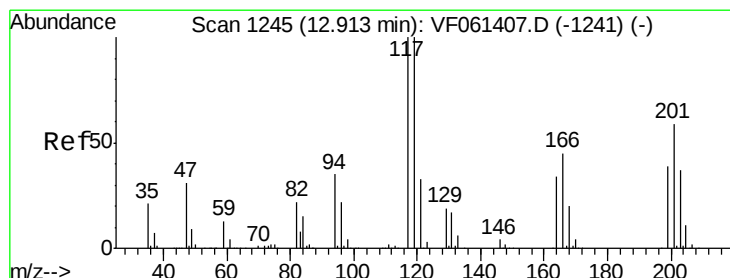
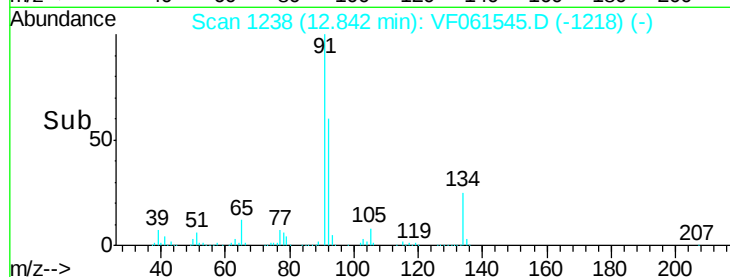
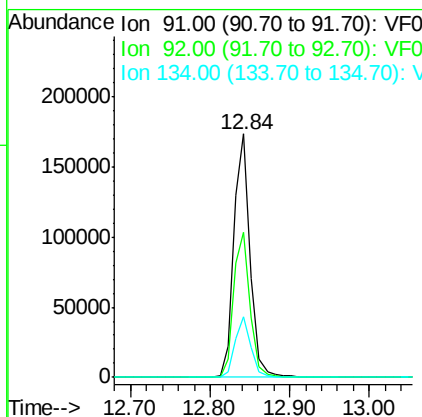
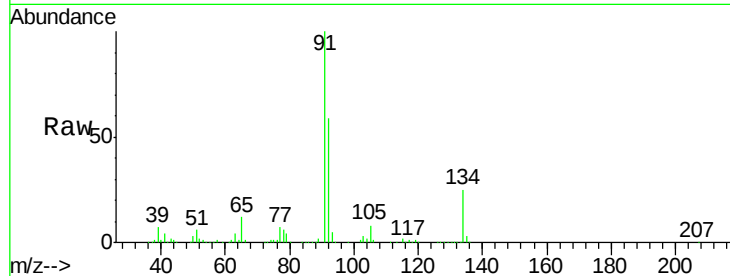
#89
n-Butylbenzene
Concen: 21.590 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Instrument :
MSVOA_F
ClientSampleId :
VF0207SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.5	31.6	94.7
134	24.9	13.6	40.8

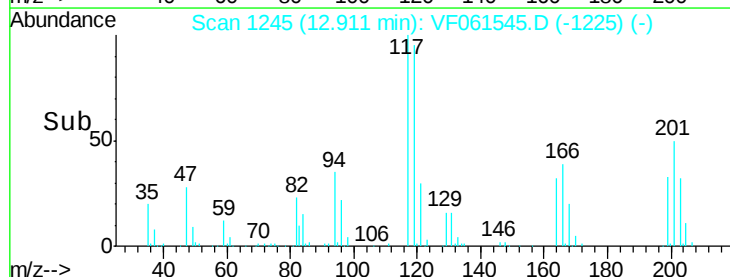
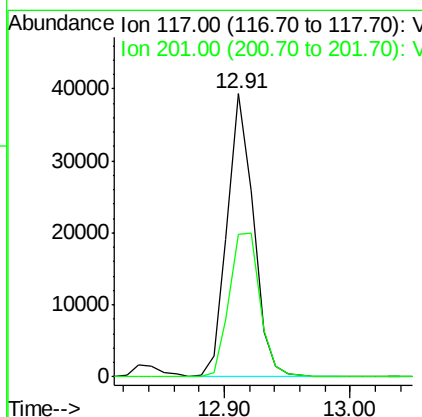
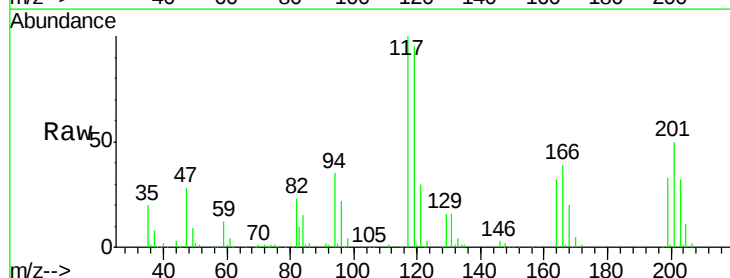
Manual Integrations
APPROVED

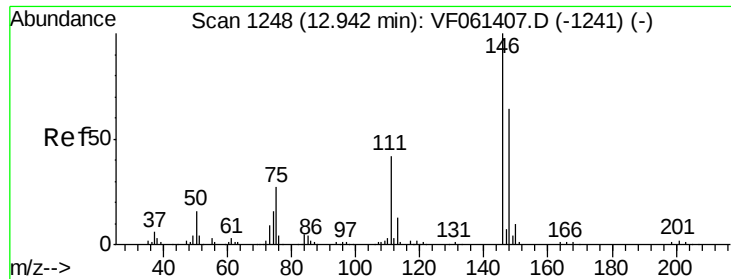
MMDadoda
2/11/2019 12:35:57 PM



#90
Hexachloroethane
Concen: 21.613 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061545.D
Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	50.4	29.3	87.8





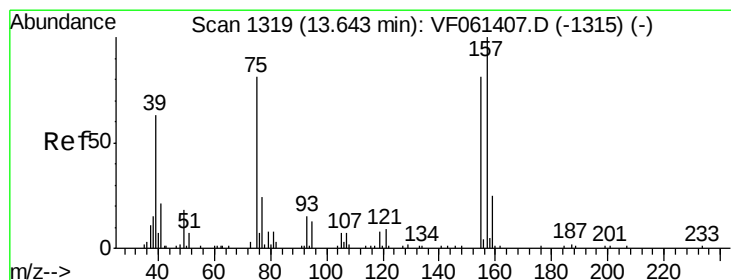
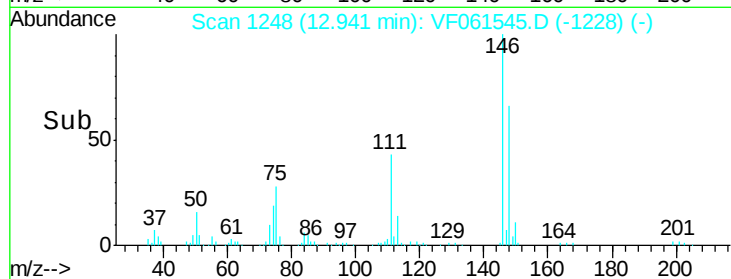
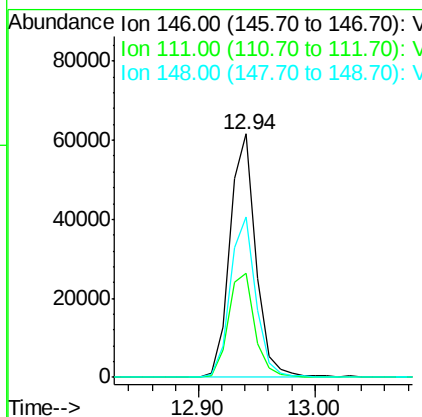
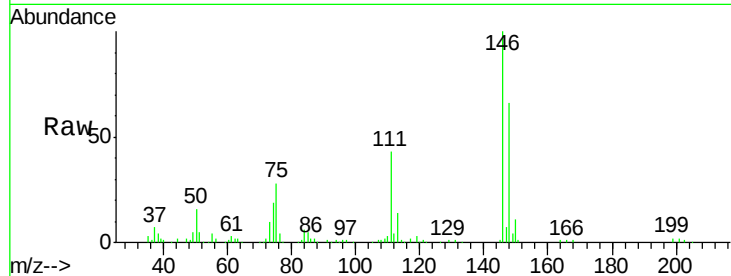
#91
 1,2-Dichlorobenzene
 Concen: 20.036 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.1	63.3
148	65.8	31.9	95.7

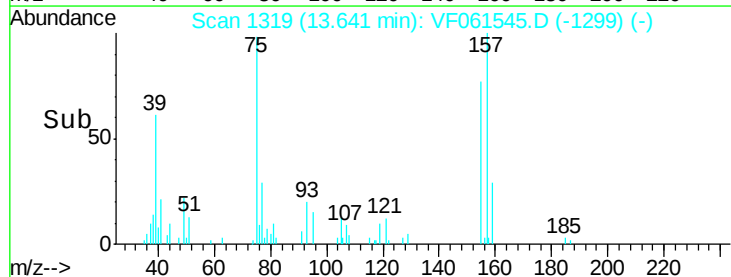
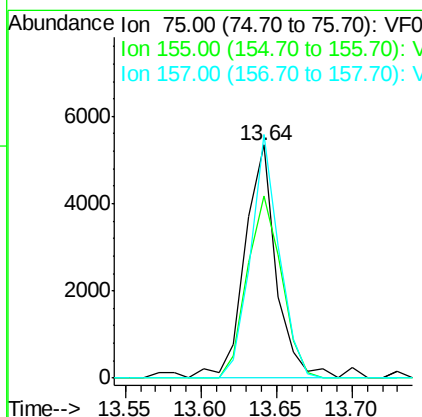
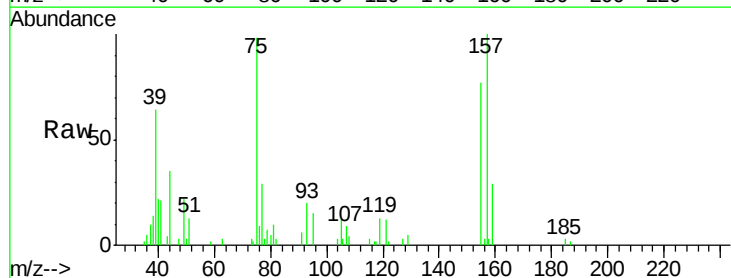
Manual Integrations
 APPROVED

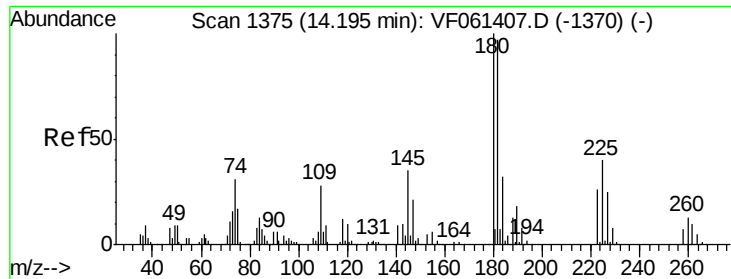
MMDadoda
 2/11/2019 12:35:57 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.263 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.2	49.7	149.1
157	104.4	61.4	184.1





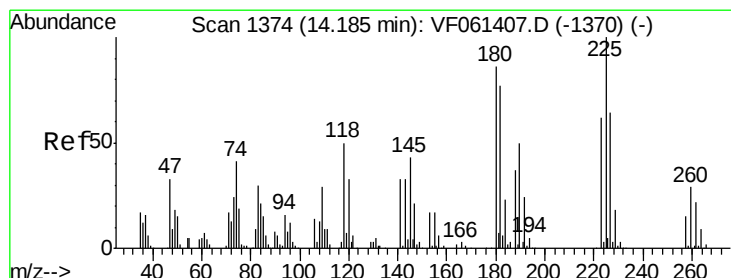
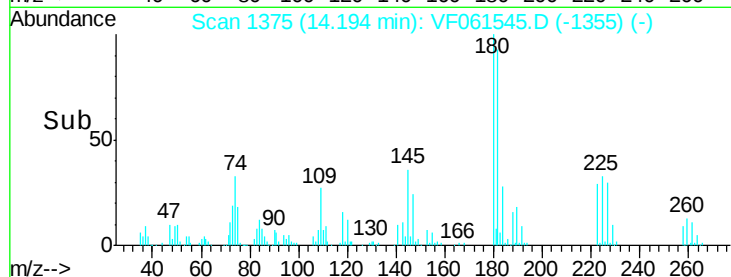
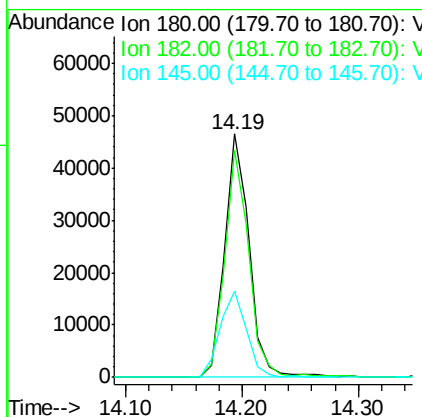
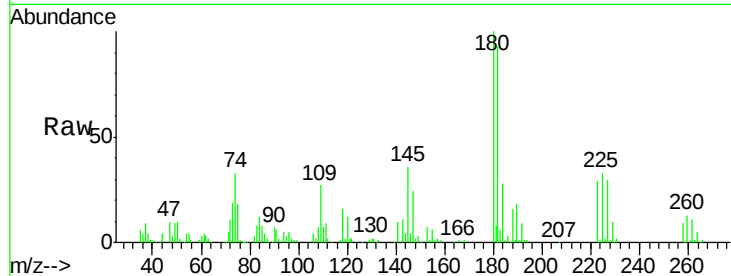
#93
 1,2,4-Trichlorobenzene
 Concen: 20.474 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0207SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	67968		
182	93.2	48.5	145.6	
145	35.6	17.5	52.6	

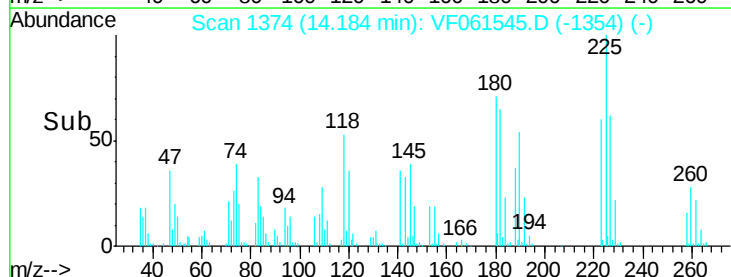
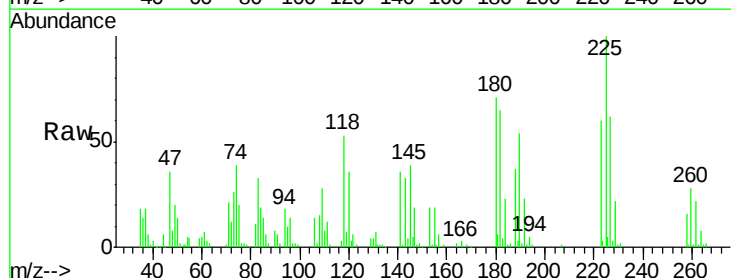
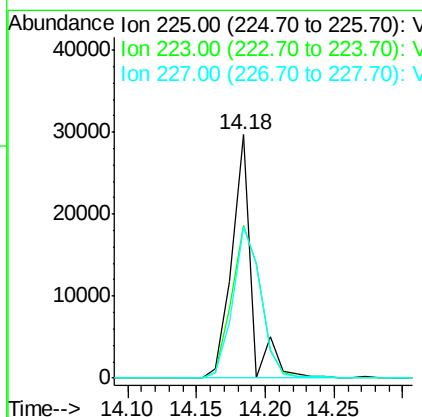
Manual Integrations
 APPROVED

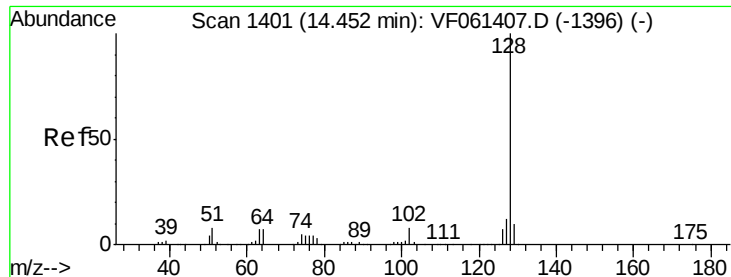
MMDadoda
 2/11/2019 12:35:57 PM



#94
 Hexachlorobutadiene
 Concen: 14.205 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061545.D
 Acq: 7 Feb 2019 15:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	29263		
223	62.8	31.1	93.2	
227	62.1	32.2	96.6	





#95

Naphthalene

Concen: 18.848 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Instrument :

MSVOA_F

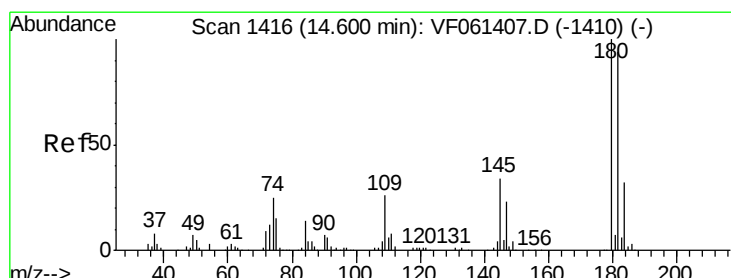
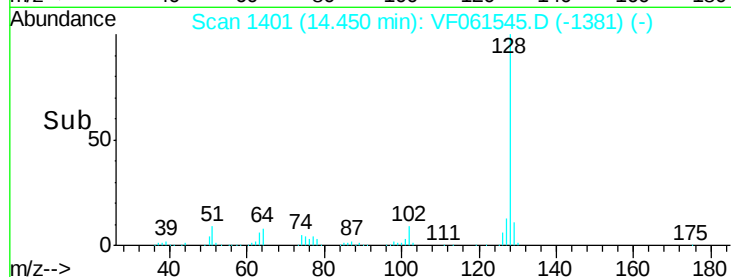
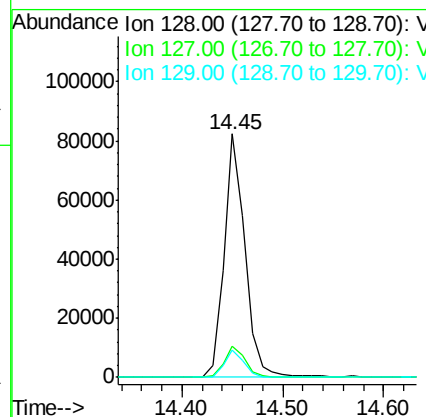
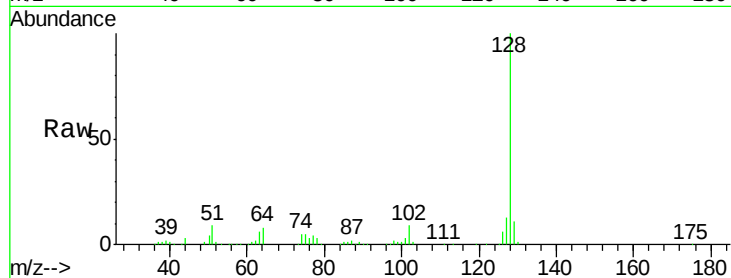
ClientSampleId :

VF0207SBS01

Tot Ion:	128	Resp:	118879
Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.5	14.3
129	11.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
2/11/2019 12:35:57 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.648 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061545.D

Acq: 7 Feb 2019 15:18

Tgt Ion:	180	Resp:	57307
Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.0	141.2
145	34.3	17.1	51.2

