

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062090.D
 Acq On : 22 Mar 2019 18:48
 Operator : VA/AP
 Sample : K2043-06
 Misc : 5.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(23-25)

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:20 AM

Quant Time: Mar 23 06:59:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	230821	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	368917	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	318857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	170915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	93508	54.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.92%	
35) Dibromofluoromethane	4.14	113	125633	50.34	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	100.68%	
50) Toluene-d8	7.58	98	328987	44.16	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	88.32%	
62) 4-Bromofluorobenzene	11.43	95	150234	52.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.14	62	171268	59.843	ug/l	97
12) 1,1-Dichloroethene	1.80	96	13053	5.867	ug/l	88
16) Acetone	2.24	43	17371	48.074	ug/l	95
20) Methylene Chloride	2.20	84	25528m	9.124	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	55064	25.722	ug/l	87
24) 1,1-Dichloroethane	2.89	63	66326	17.759	ug/l	98
27) cis-1,2-Dichloroethene	3.50	96	1226906	432.502	ug/l	98
64) Tetrachloroethene	8.18	164	7977	3.238	ug/l	96
65) Chlorobenzene	9.83	112	42528	7.128	ug/l	94
87) 1,3-Dichlorobenzene	12.50	146	15059	2.759	ug/l	97
88) 1,4-Dichlorobenzene	12.59	146	26830	5.037	ug/l	95
91) 1,2-Dichlorobenzene	12.96	146	109113	21.286	ug/l	97

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

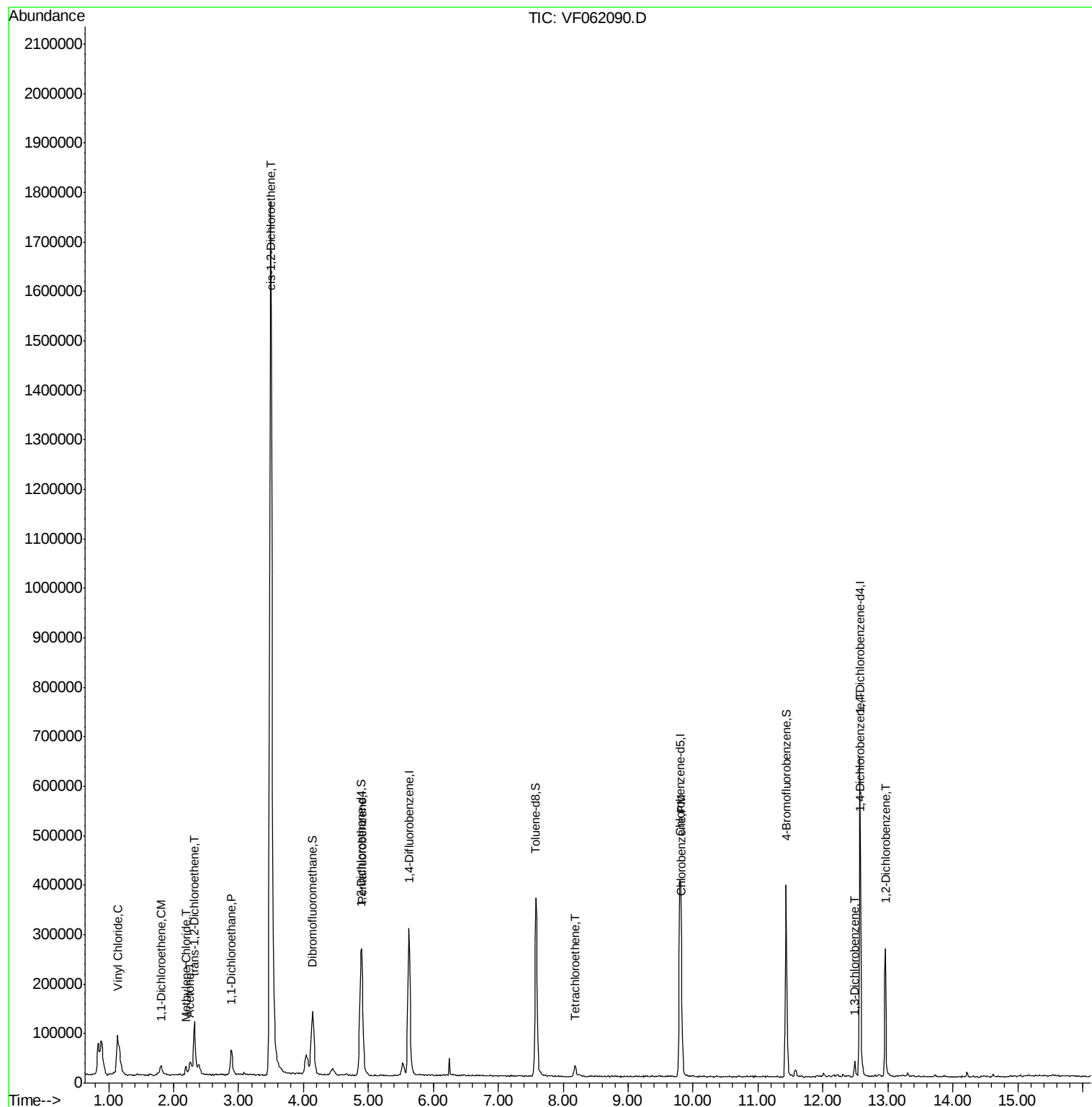
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\
Data File : VF062090.D
Acq On : 22 Mar 2019 18:48
Operator : VA/AP
Sample : K2043-06
Misc : 5.76g/5mL/MSVOA-F/SOIL
ALS Vial : 18 Sample Multiplier: 1

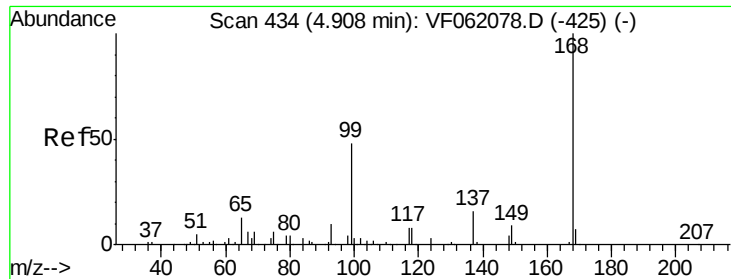
Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:20 AM

Quant Time: Mar 23 06:59:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

ClientSampleId :

WP022SB429-190319-(23-25)

Tot Ion:168 Resp: 230821

Ion Ratio Lower Upper

168 100

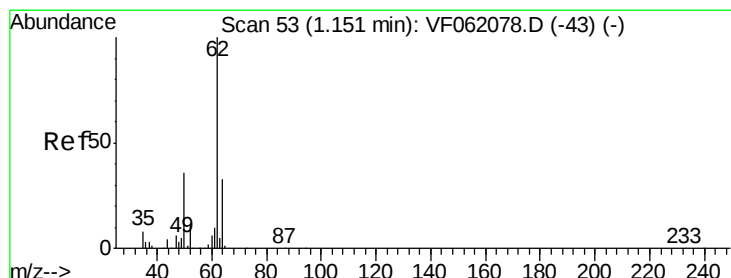
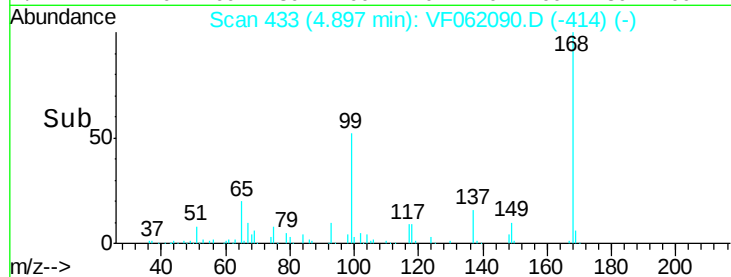
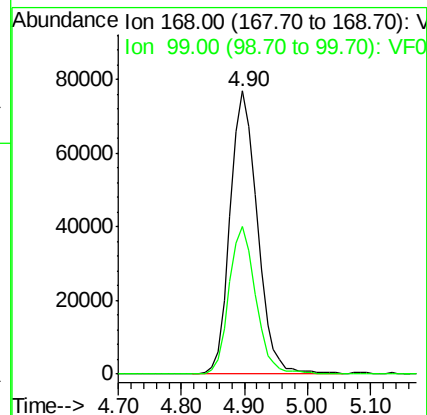
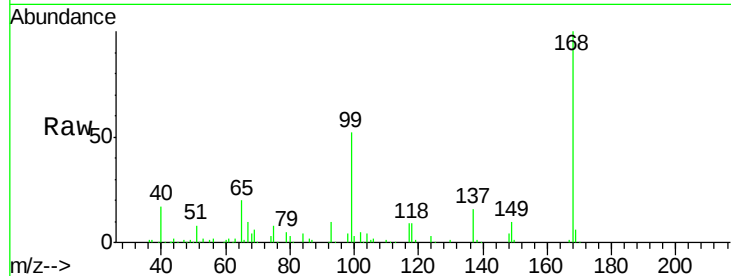
99 52.2 38.2 57.4

Manual Integrations

APPROVED

MMDadoda

3/27/2019 11:57:20 AM



#4

Vinyl Chloride

Concen: 59.843 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062090.D

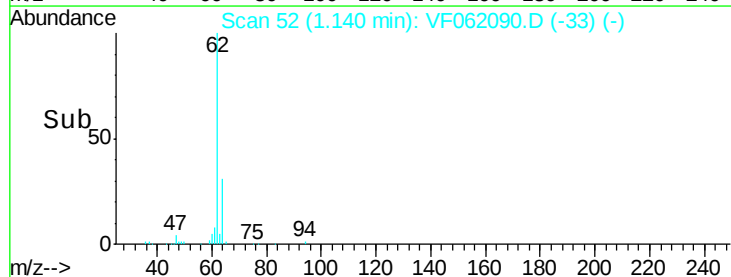
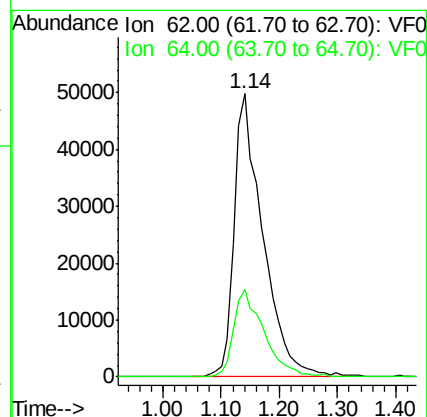
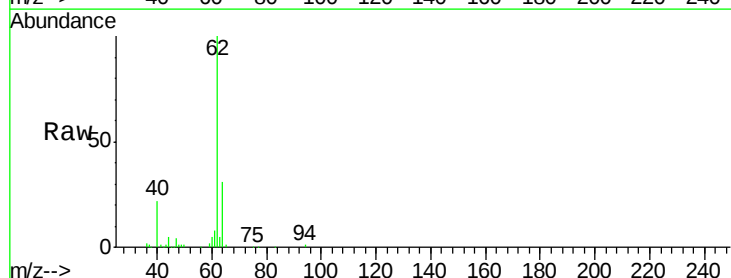
Acq: 22 Mar 2019 18:48

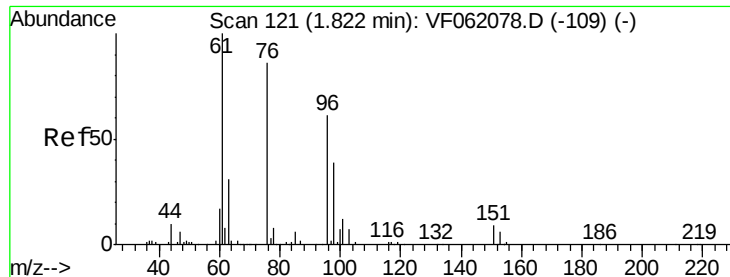
Tgt Ion: 62 Resp: 171268

Ion Ratio Lower Upper

62 100

64 30.8 26.2 39.2





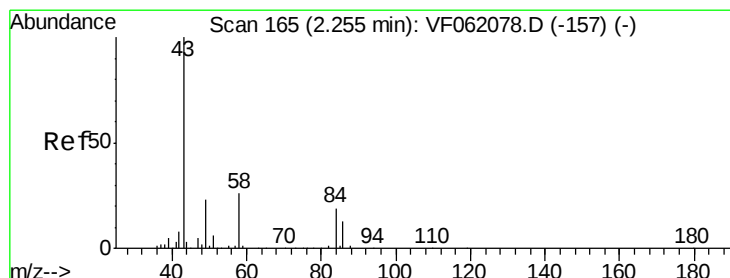
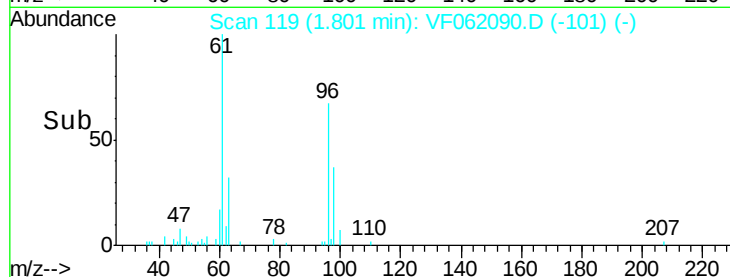
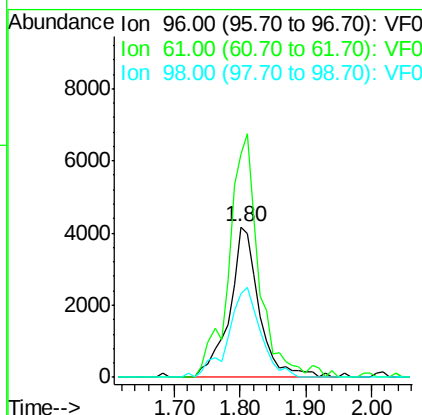
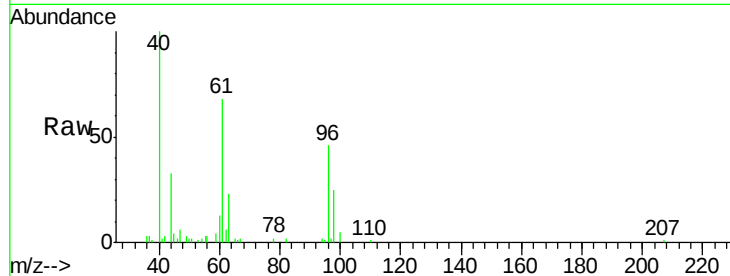
#12
1,1-Dichloroethene
Concen: 5.867 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.3	131.0	196.6
98	55.3	51.5	77.3

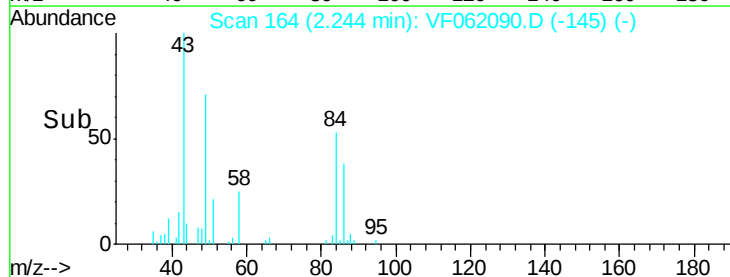
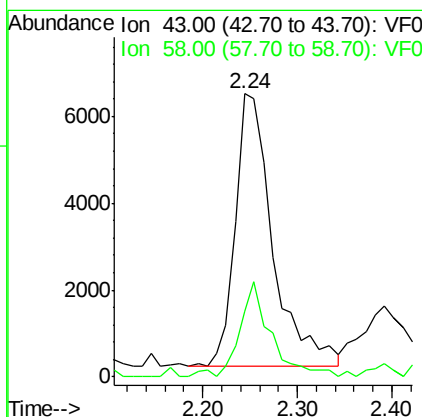
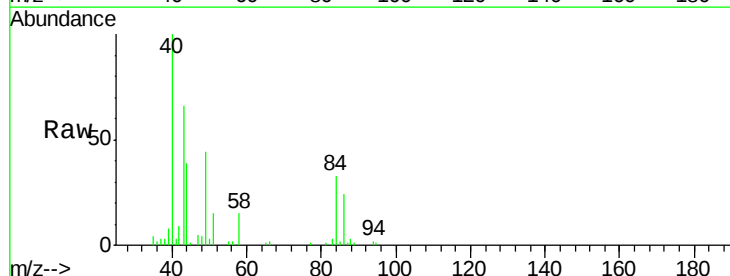
Manual Integrations
APPROVED

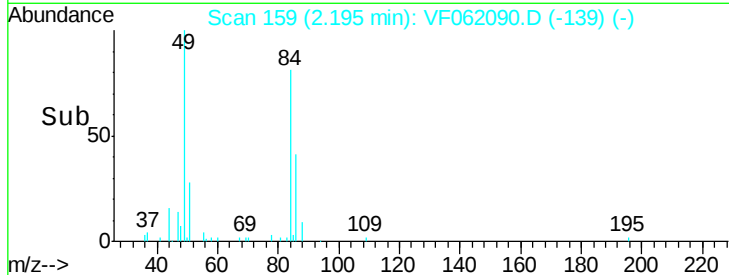
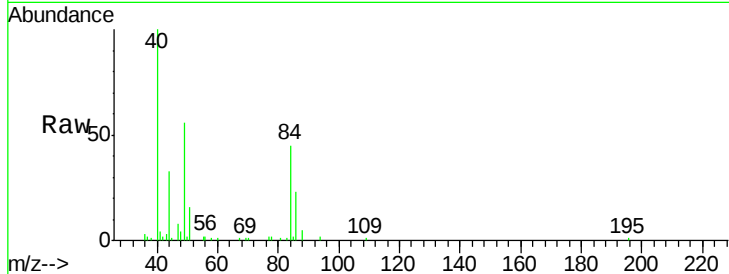
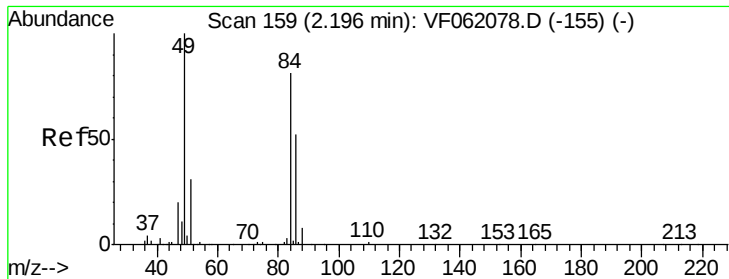
MMDadoda
3/27/2019 11:57:20 AM



#16
Acetone
Concen: 48.074 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.3	20.8	31.2





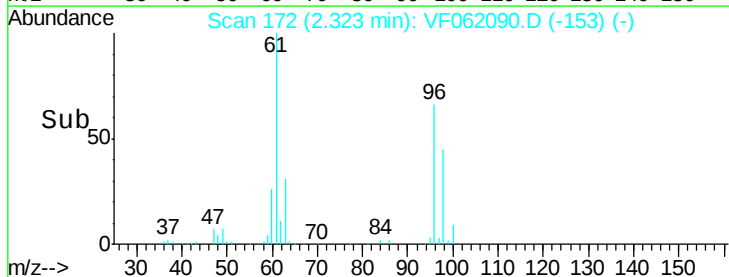
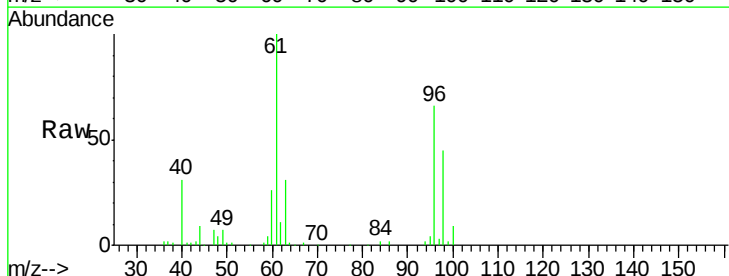
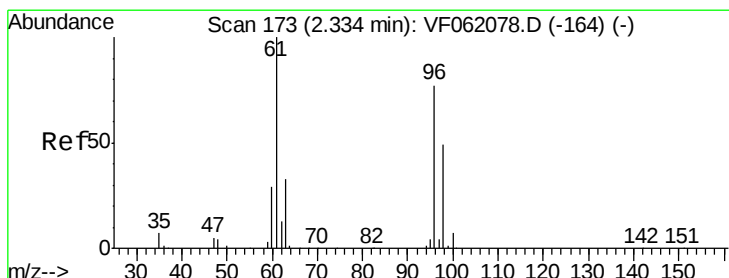
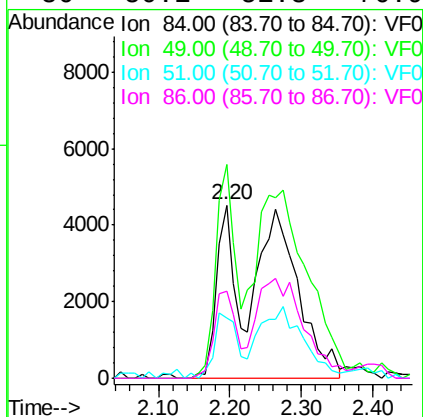
#20
Methvlene Chloride
Concen: 9.124 ug/l m
RT: 2.20 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tot Ion	Ratio	Lower	Upper
84	100		
49	123.6	100.4	150.6
51	35.0	31.0	46.6
86	50.1	51.3	76.9#

Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

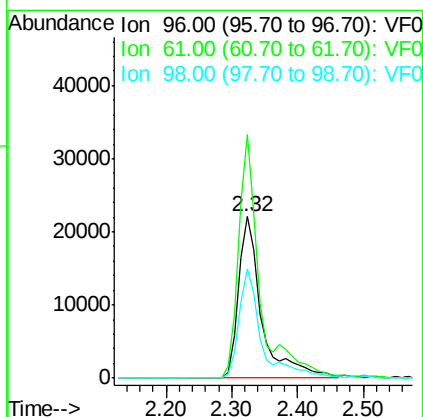
Manual Integrations
APPROVED

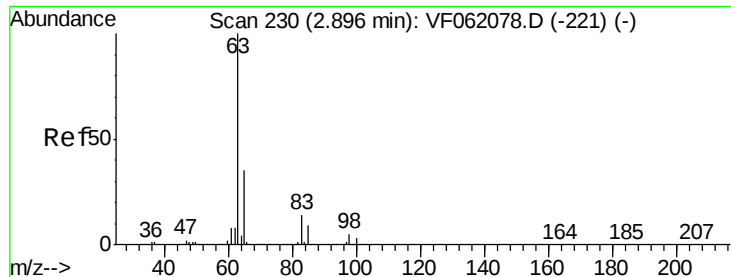
MMDadoda
3/27/2019 11:57:20 AM



#21
trans-1,2-Dichloroethene
Concen: 25.722 ug/l
RT: 2.32 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.9	104.5	156.7
98	67.7	51.2	76.8





#24

1,1-Dichloroethane

Concen: 17.759 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

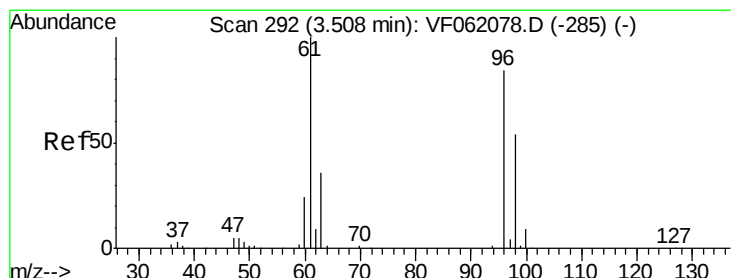
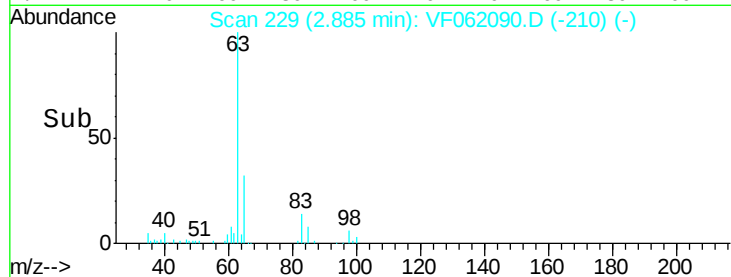
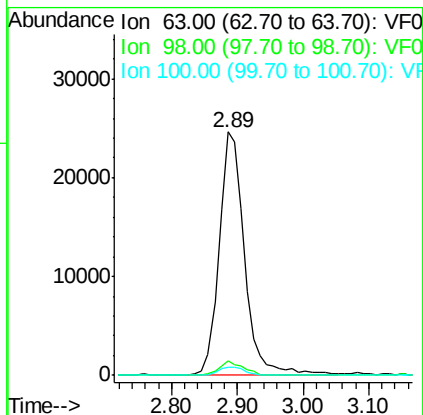
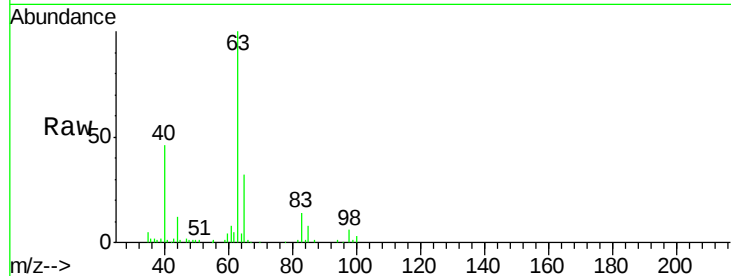
ClientSampleId :

WP022SB429-190319-(23-25)

Tot Ion:	63	Resp:	66326
Ion	Ratio	Lower	Upper
63	100		
98	6.1	2.7	8.1
100	3.1	1.7	5.1

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:20 AM



#27

cis-1,2-Dichloroethene

Concen: 432.502 ug/l

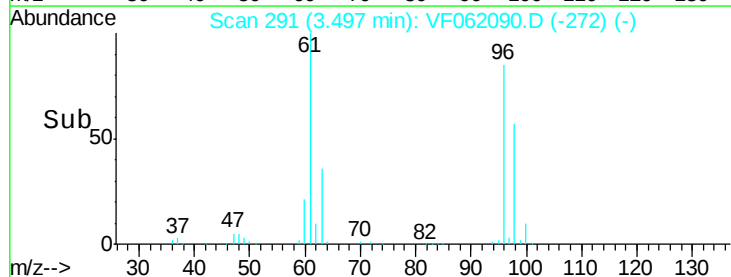
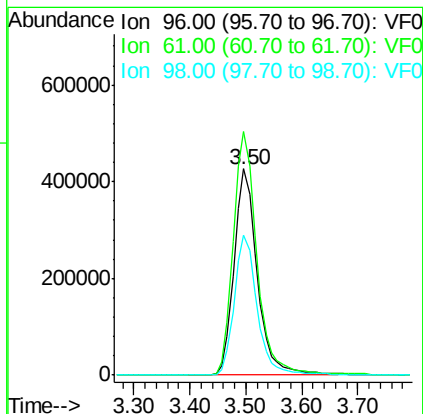
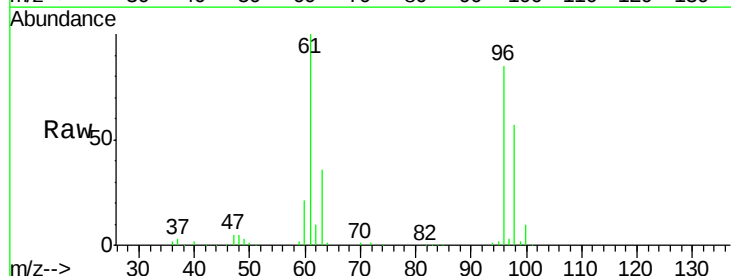
RT: 3.50 min Scan# 291

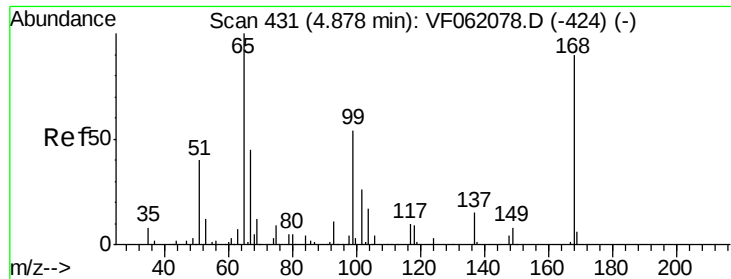
Delta R.T. -0.01 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Tgt Ion:	96	Resp:	1226906
Ion	Ratio	Lower	Upper
96	100		
61	118.2	0.0	239.0
98	67.9	0.0	128.2





#33

1,2-Dichloroethane-d4

Concen: 54.464 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Tot Ion: 65 Resp: 93508

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2

Instrument :

MSVOA_F

ClientSampleId :

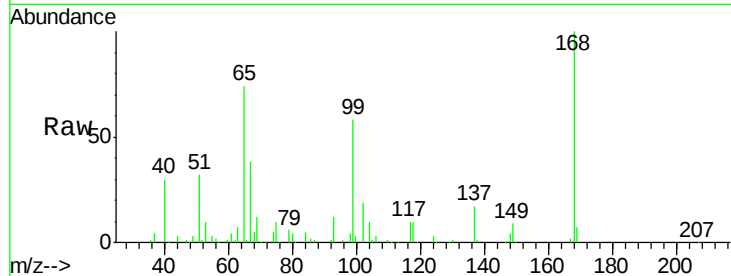
WP022SB429-190319-(23-25)

Manual Integrations

APPROVED

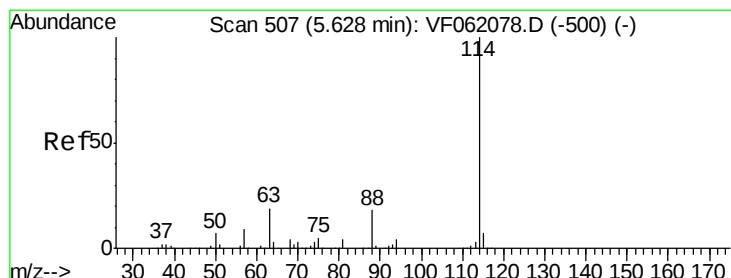
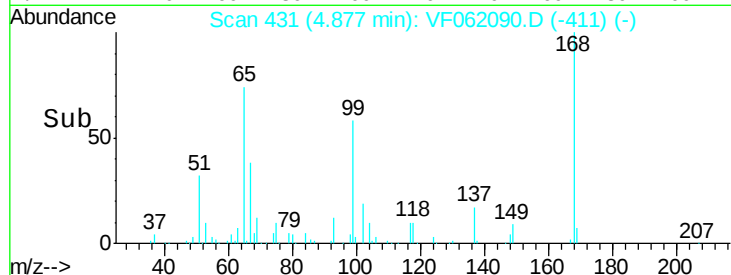
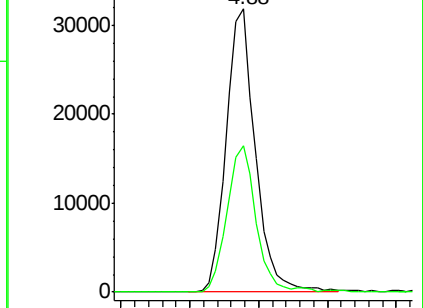
MMDadoda

3/27/2019 11:57:20 AM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 507

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

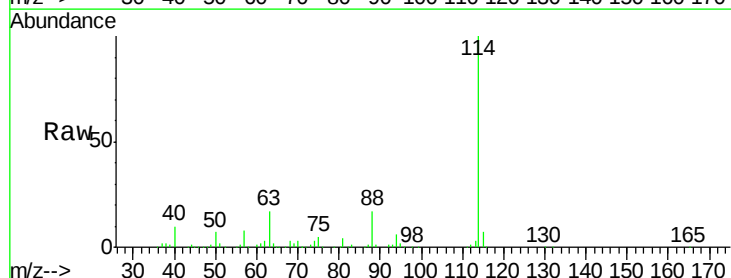
Tgt Ion:114 Resp: 368917

Ion Ratio Lower Upper

114 100

63 17.4 0.0 37.8

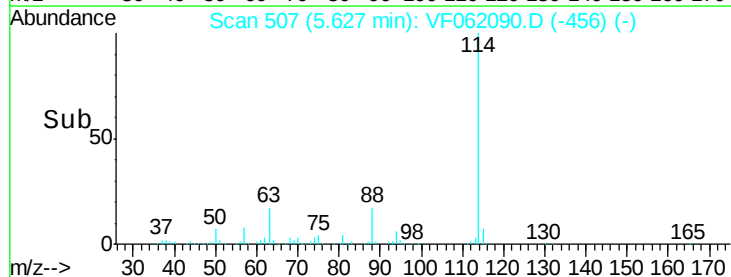
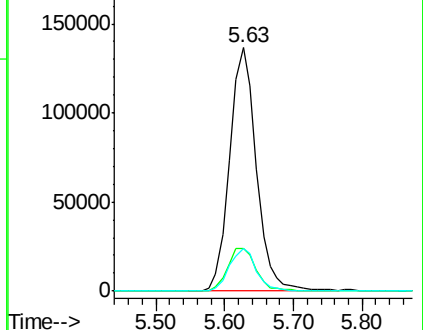
88 17.3 0.0 36.4

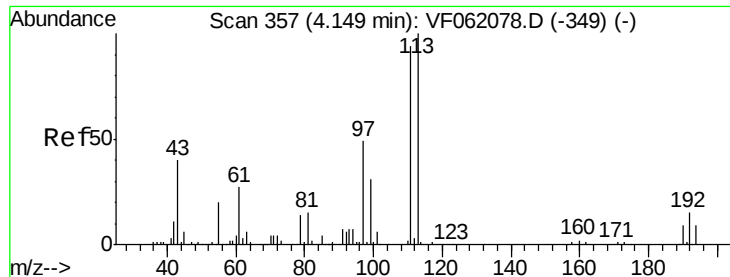


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





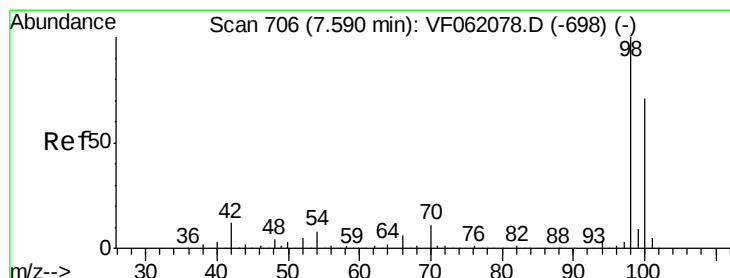
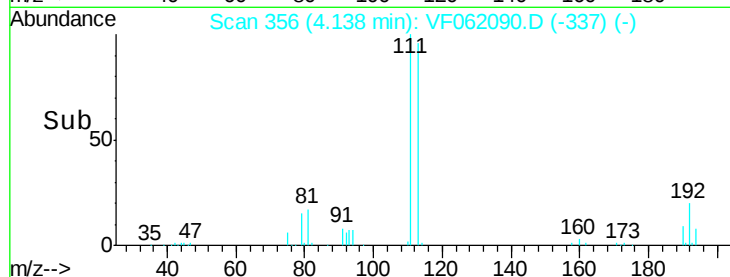
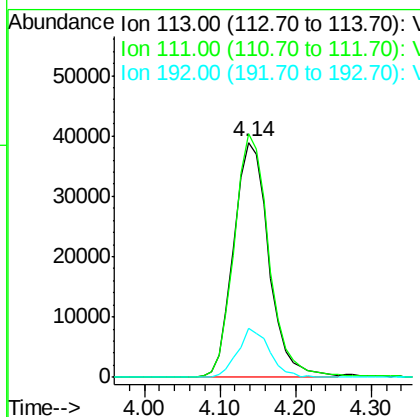
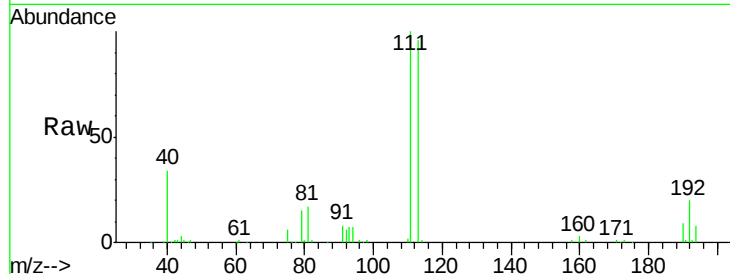
#35
Dibromofluoromethane
Concen: 50.342 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Instrument :
MSVOA_F
ClientSampleId :
WP022SB429-190319-(23-25)

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	75.4	113.0
192	20.7	12.3	18.5

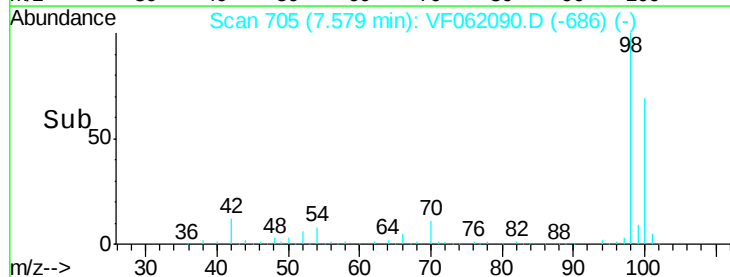
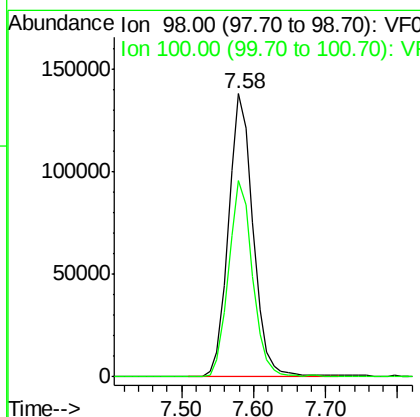
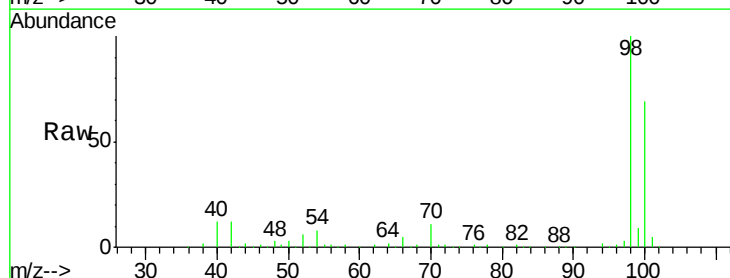
Manual Integrations
APPROVED

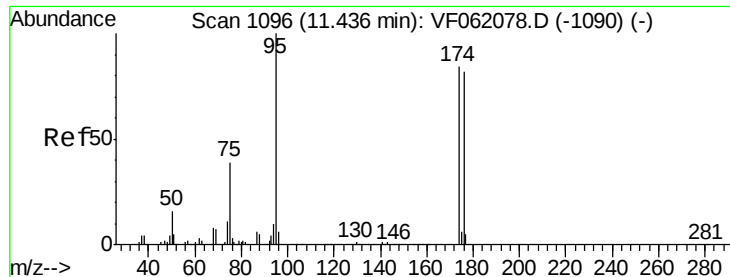
MMDadoda
3/27/2019 11:57:20 AM



#50
Toluene-d8
Concen: 44.163 ug/l
RT: 7.58 min Scan# 705
Delta R.T. -0.01 min
Lab File: VF062090.D
Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.2	57.0	85.6





#62

4-Bromofluorobenzene

Concen: 52.240 ug/l

RT: 11.43 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

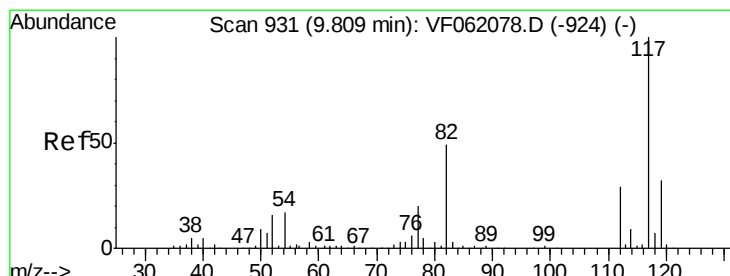
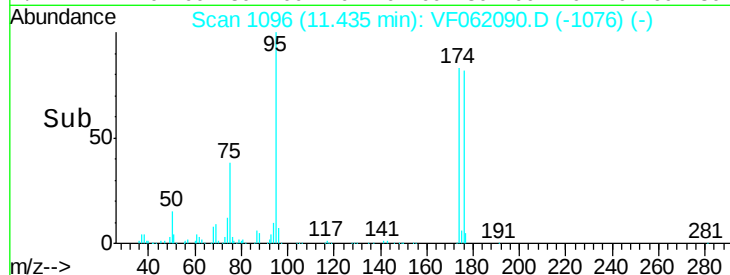
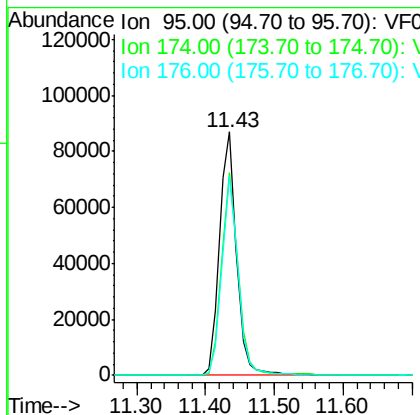
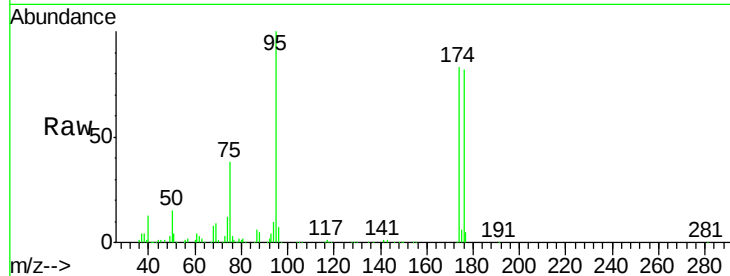
ClientSampleId :

WP022SB429-190319-(23-25)

Tot Ion:	95	Resp:	150234
Ion Ratio	Lower	Upper	
95	100		
174	83.2	0.0	168.2
176	81.8	0.0	164.2

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:20 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

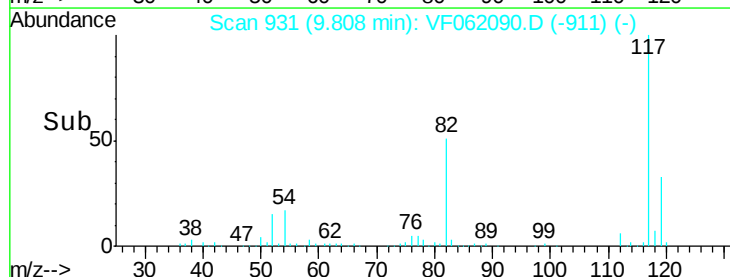
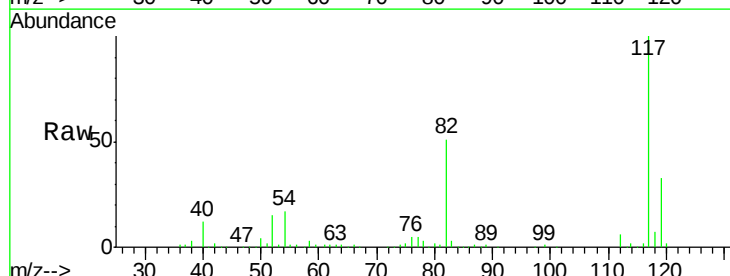
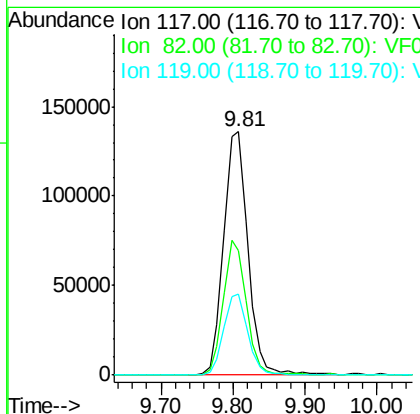
RT: 9.81 min Scan# 931

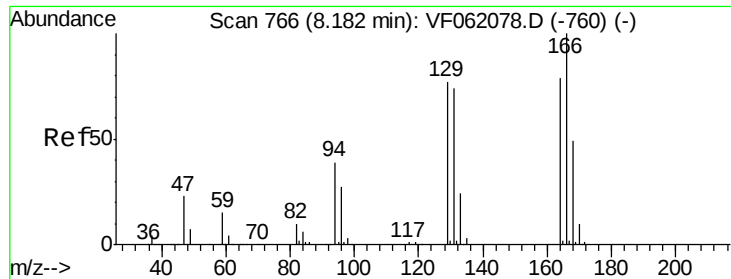
Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Tgt Ion:	117	Resp:	318857
Ion Ratio	Lower	Upper	
117	100		
82	51.1	39.2	58.8
119	33.1	25.4	38.2





#64

Tetrachloroethene

Concen: 3.238 ug/l

RT: 8.18 min Scan# 766

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

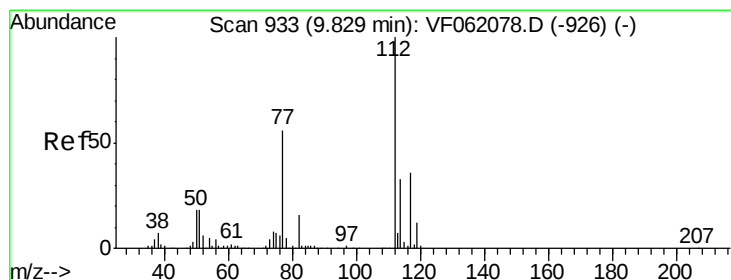
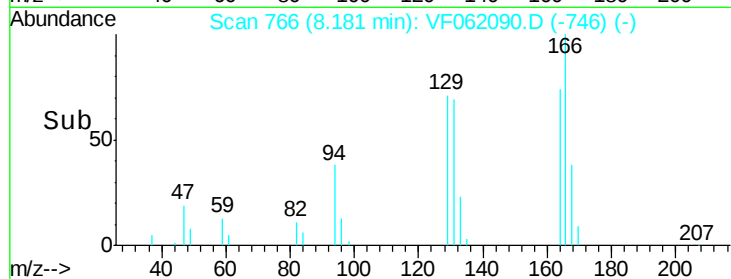
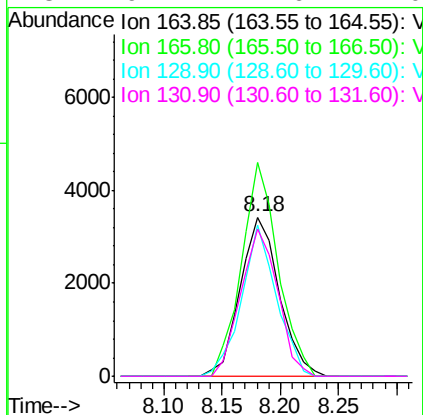
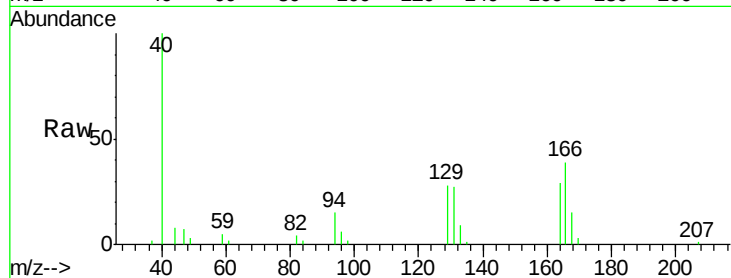
ClientSampleId :

WP022SB429-190319-(23-25)

Tot Ion:	164	Resp:	7977
Ion	Ratio	Lower	Upper
164	100		
166	134.5	100.9	151.3
129	94.9	77.9	116.9
131	92.4	74.6	112.0

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:20 AM



#65

Chlorobenzene

Concen: 7.128 ug/l

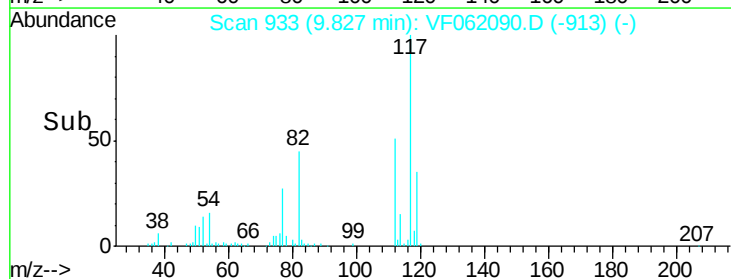
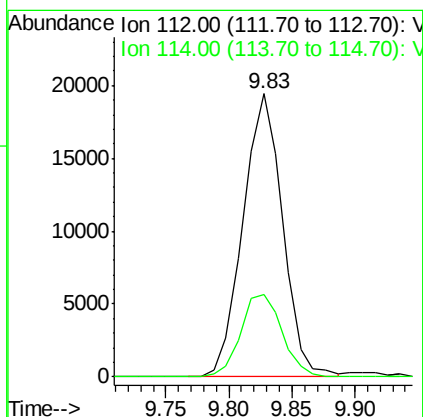
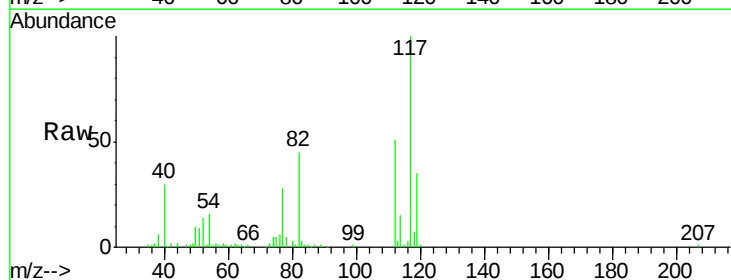
RT: 9.83 min Scan# 933

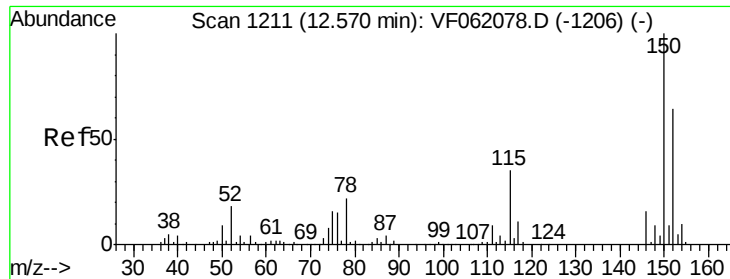
Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Tgt Ion:	112	Resp:	42528
Ion	Ratio	Lower	Upper
112	100		
114	29.0	26.0	39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Instrument :

MSVOA_F

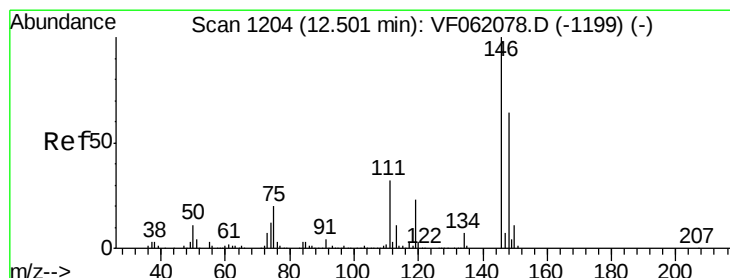
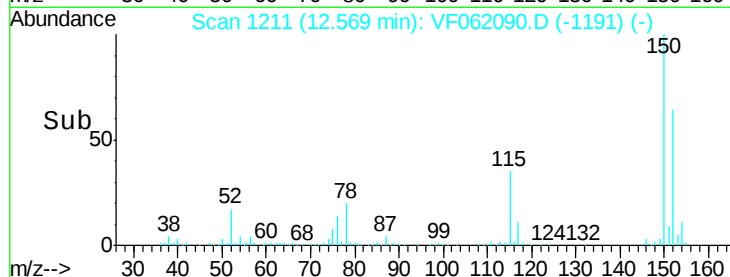
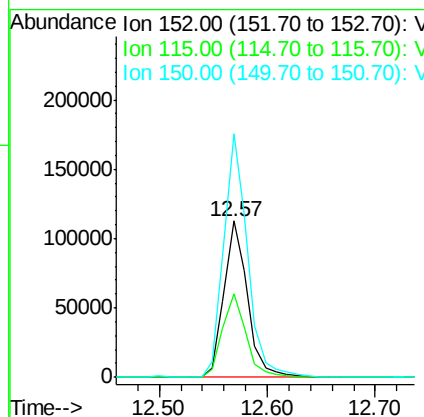
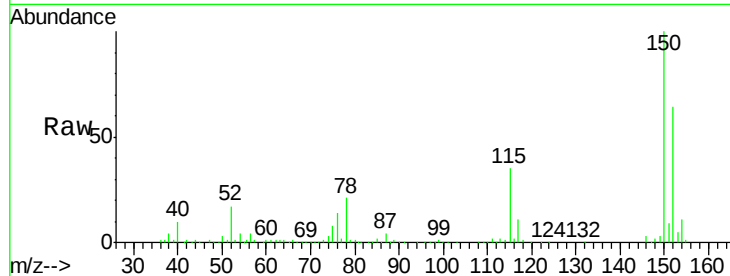
ClientSampleId :

WP022SB429-190319-(23-25)

Tot Ion:	152	Resp:	170915
Ion Ratio	Lower	Upper	
152	100		
115	54.0	27.7	83.1
150	156.0	0.0	313.2

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:20 AM



#87

1,3-Dichlorobenzene

Concen: 2.759 ug/l

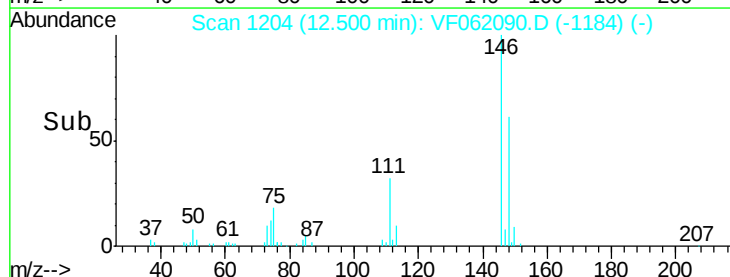
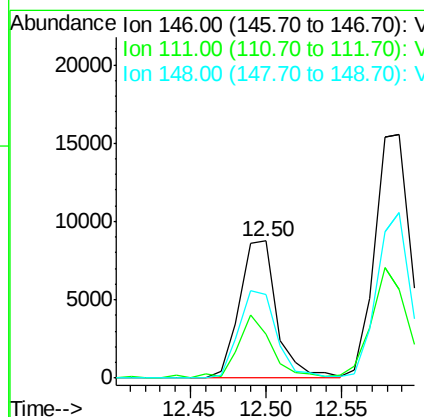
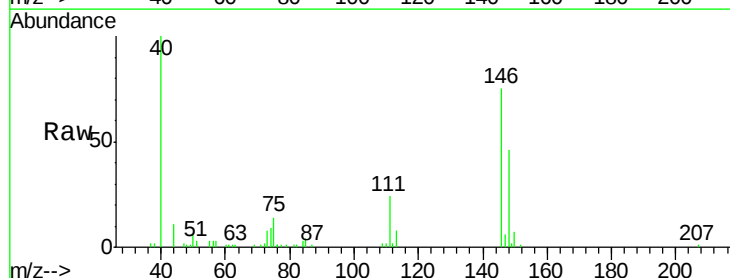
RT: 12.50 min Scan# 1204

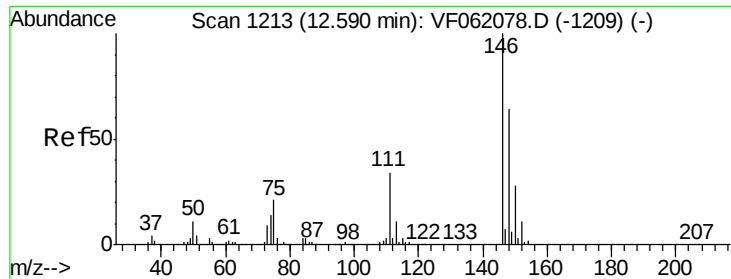
Delta R.T. -0.00 min

Lab File: VF062090.D

Acq: 22 Mar 2019 18:48

Tgt Ion:	146	Resp:	15059
Ion Ratio	Lower	Upper	
146	100		
111	31.8	16.1	48.3
148	60.8	31.9	95.7





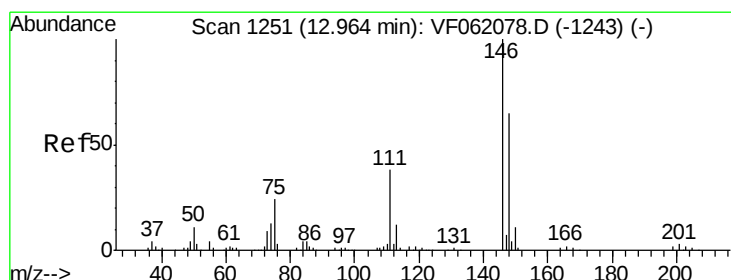
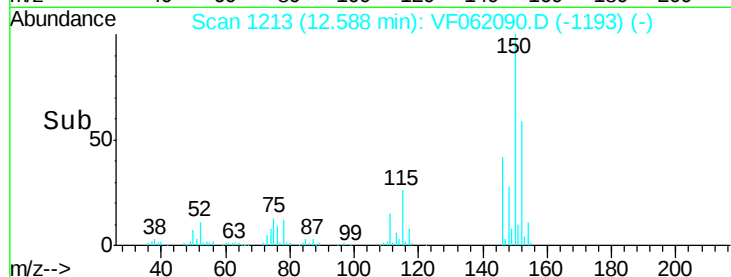
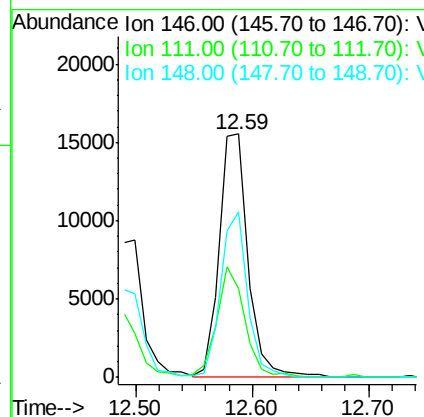
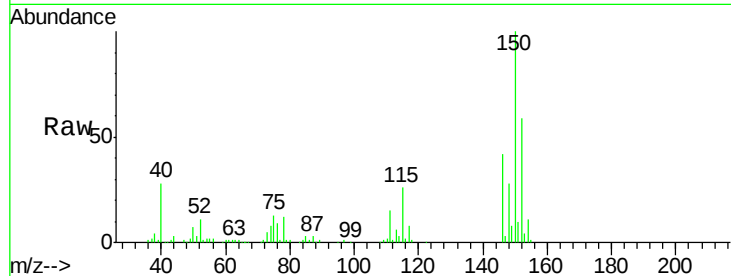
#88
 1,4-Dichlorobenzene
 Concen: 5.037 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. -0.00 min
 Lab File: VF062090.D
 Acq: 22 Mar 2019 18:48

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB429-190319-(23-25)

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	16.9	50.6
148	68.0	31.9	95.7

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:20 AM



#91
 1,2-Dichlorobenzene
 Concen: 21.286 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062090.D
 Acq: 22 Mar 2019 18:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	19.1	57.3
148	63.2	32.8	98.3

