

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\
 Data File : VF059798.D
 Acq On : 2 Aug 2018 14:08
 Operator : VA/AP
 Sample : VF0802SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Manual Integrations
 APPROVED

apatel
 8/3/2018 2:39:00 PM

Quant Time: Aug 02 15:11:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	196398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	276199	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	285303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	180607	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	178484	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
35) Dibromofluoromethane	4.29	113	147937	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
50) Toluene-d8	7.70	98	336522	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
62) 4-Bromofluorobenzene	11.50	95	183658	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	64919	26.78	ug/l	97
3) Chloromethane	1.08	50	28221	21.99	ug/l	91
4) Vinyl Chloride	1.15	62	34059	26.23	ug/l	95
5) Bromomethane	1.34	94	27247	25.17	ug/l	94
6) Chloroethane	1.42	64	18203	22.16	ug/l	90
7) Trichlorofluoromethane	1.53	101	77039m	21.00	ug/l	
8) Diethyl Ether	1.70	74	14450	23.04	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.90	101	48461	25.23	ug/l	95
10) Methyl Iodide	1.96	142	72937	25.08	ug/l	93
11) Tert butyl alcohol	2.70	59	17905	125.08	ug/l #	92
12) 1,1-Dichloroethene	1.85	96	36580	24.05	ug/l	99
13) Acrolein	2.09	56	5141	80.60	ug/l #	65
14) Allyl chloride	2.19	41	57076	23.50	ug/l	94
15) Acrylonitrile	3.07	53	27025	118.53	ug/l	87
16) Acetone	2.33	43	80049	126.08	ug/l	98
17) Carbon Disulfide	1.88	76	88704	25.85	ug/l	98
18) Methyl Acetate	2.45	43	32895	31.55	ug/l #	90
19) Methyl tert-butyl Ether	2.53	73	102610	22.12	ug/l	97
20) Methylene Chloride	2.31	84	40094m	25.48	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	35681	25.55	ug/l	93
22) Diisopropyl ether	2.92	45	127819	24.89	ug/l	90
23) Vinyl Acetate	3.33	43	300476	113.81	ug/l	98
24) 1,1-Dichloroethane	2.99	63	82726	23.19	ug/l #	97
25) 2-Butanone	4.51	43	80265	113.28	ug/l #	83
26) 2,2-Dichloropropane	3.75	77	59791	23.51	ug/l	99
27) cis-1,2-Dichloroethene	3.62	96	45338	23.73	ug/l	97
28) Bromochloromethane	3.88	49	32874	24.08	ug/l	86
29) Tetrahydrofuran	4.25	42	34430	126.43	ug/l	95
30) Chloroform	4.03	83	115034	22.85	ug/l	93
31) Cyclohexane	3.86	56	45926	24.45	ug/l	95
32) 1,1,1-Trichloroethane	4.27	97	85606	21.92	ug/l	95
36) 1,1-Dichloropropene	4.45	75	68870	22.45	ug/l	99
37) Ethyl Acetate	4.29	43	37431	24.82	ug/l #	84
38) Carbon Tetrachloride	4.17	117	106339	24.22	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\
 Data File : VF059798.D
 Acq On : 2 Aug 2018 14:08
 Operator : VA/AP
 Sample : VF0802SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0802SBS01

Manual Integrations
 APPROVED

apatel
 8/3/2018 2:39:00 PM

Quant Time: Aug 02 15:11:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	54844	23.42	ug/l	90
40) Benzene	4.80	78	128239	22.99	ug/l	97
41) Methacrylonitrile	4.91	41	17784	24.12	ug/l #	91
42) 1,2-Dichloroethane	5.10	62	89398	22.90	ug/l	98
43) Isopropyl Acetate	7.10	43	37369	22.63	ug/l #	97
44) Trichloroethene	5.67	130	48345	23.00	ug/l	91
45) 1,2-Dichloropropane	6.39	63	34624	23.51	ug/l	94
46) Dibromomethane	6.25	93	31247	22.34	ug/l	93
47) Bromodichloromethane	6.54	83	87227	22.90	ug/l	97
48) Methyl methacrylate	6.87	41	29131	23.45	ug/l	91
49) 1,4-Dioxane	6.87	88	4998	622.16	ug/l	88
51) 4-Methyl-2-Pentanone	8.40	43	155445	123.73	ug/l	97
52) Toluene	7.77	92	95722	24.43	ug/l	93
53) t-1,3-Dichloropropene	8.42	75	78018	23.61	ug/l	99
54) cis-1,3-Dichloropropene	7.45	75	75586	23.61	ug/l	92
55) 1,1,2-Trichloroethane	8.63	97	34356	22.74	ug/l	98
56) Ethyl methacrylate	8.76	69	36505	23.17	ug/l	96
57) 1,3-Dichloropropane	9.00	76	63115	24.35	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.77	63	20797	114.34	ug/l	100
59) 2-Hexanone	9.63	43	118972	118.17	ug/l	93
60) Dibromochloromethane	8.86	129	60277	22.61	ug/l	93
61) 1,2-Dibromoethane	9.13	107	43523	24.67	ug/l	99
64) Tetrachloroethene	8.30	164	51244	24.34	ug/l	96
65) Chlorobenzene	9.93	112	127455	22.33	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.06	131	57980	21.76	ug/l	96
67) Ethyl Benzene	10.03	91	228876	23.18	ug/l	97
68) m/p-Xylenes	10.26	106	160998	48.09	ug/l	94
69) o-Xylene	10.82	106	83991	23.08	ug/l	95
70) Styrene	10.90	104	131493	23.86	ug/l	98
71) Bromoform	10.88	173	40411	23.28	ug/l	96
73) Isopropylbenzene	11.22	105	271418	22.90	ug/l	99
74) N-amyl acetate	11.46	43	63085	21.10	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.78	83	51511	23.09	ug/l	98
76) 1,2,3-Trichloropropane	11.89	75	43462	22.91	ug/l	97
77) Bromobenzene	11.59	156	68833	22.24	ug/l	96
78) n-propylbenzene	11.69	91	324910	24.16	ug/l	96
79) 2-Chlorotoluene	11.81	91	192586	22.80	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	243065	23.26	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	19377m	24.67	ug/l	
82) 4-Chlorotoluene	11.98	91	208397	23.38	ug/l	100
83) tert-Butylbenzene	12.21	119	255595	24.03	ug/l	98
84) 1,2,4-Trimethylbenzene	12.28	105	254469	24.36	ug/l	96
85) sec-Butylbenzene	12.39	105	322854	23.85	ug/l	100
86) p-Isopropyltoluene	12.54	119	283856	23.99	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	135714	23.79	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	130557	23.34	ug/l	98
89) n-Butylbenzene	12.92	91	270064	23.97	ug/l	96
90) Hexachloroethane	12.99	117	67905	22.72	ug/l	96
91) 1,2-Dichlorobenzene	13.02	146	131046	24.26	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	12408	22.75	ug/l	88

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF080218\
Data File : VF059798.D
Acq On : 2 Aug 2018 14:08
Operator : VA/AP
Sample : VF0802SBS01
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 83 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

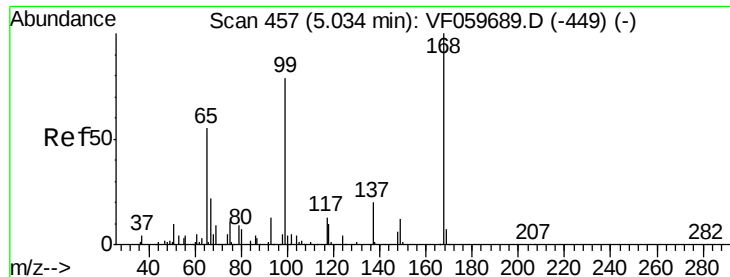
Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM

Quant Time: Aug 02 15:11:09 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 15:23:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	101698	23.30	ug/l	96
94) Hexachlorobutadiene	14.25	225	71312	24.07	ug/l	99
95) Naphthalene	14.52	128	175716	22.57	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	94725	22.01	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion:168 Resp: 196398

Ion Ratio Lower Upper

168 100

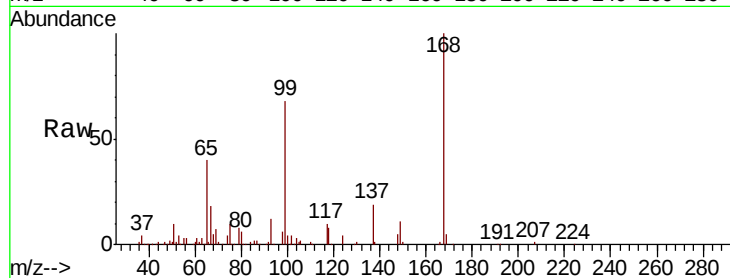
99 67.8 63.3 94.9

Manual Integrations

APPROVED

apatel

8/3/2018 2:39:00 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

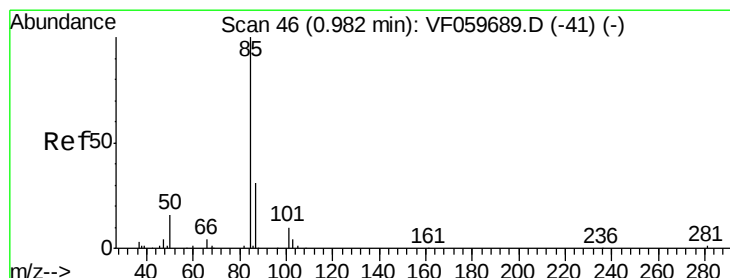
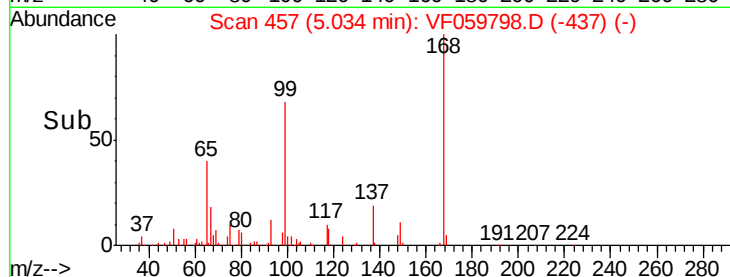
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 26.78 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059798.D

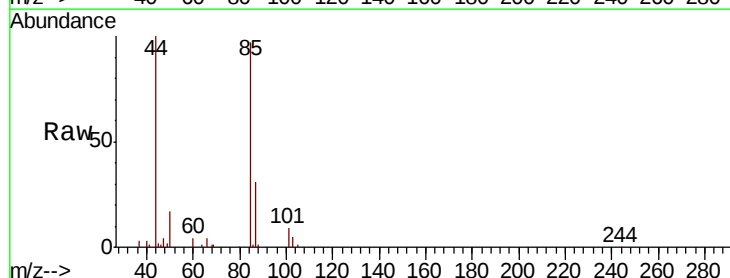
Acq: 2 Aug 2018 14:08

Tgt Ion: 85 Resp: 64919

Ion Ratio Lower Upper

85 100

87 32.2 15.3 45.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

20000

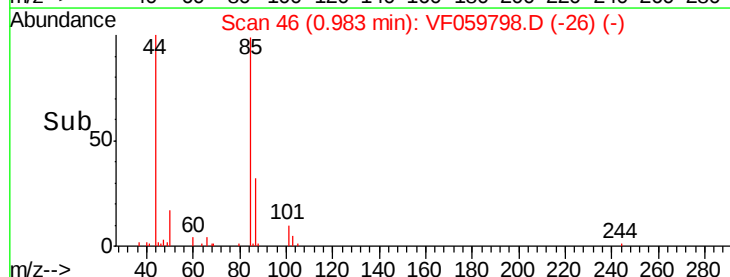
15000

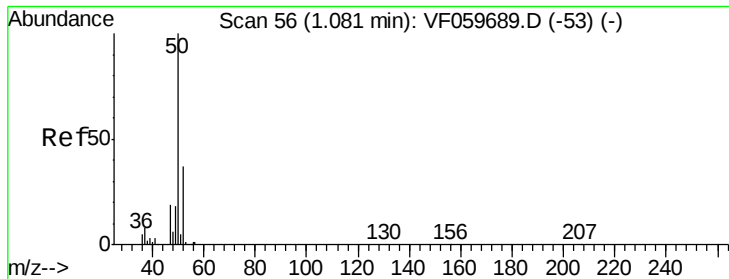
10000

5000

0

Time-->





#3

Chloromethane

Concen: 21.99 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 50 Resp: 28221

Ion Ratio Lower Upper

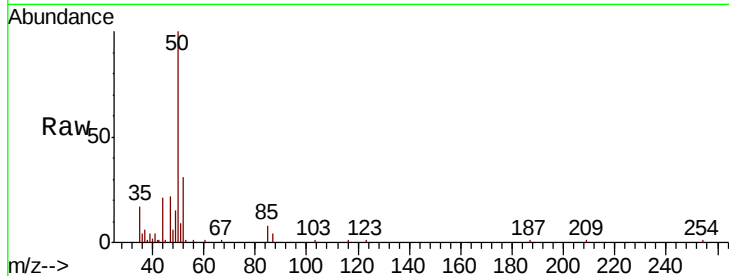
50 100

52 30.8 29.1 43.7

Manual Integrations
APPROVED

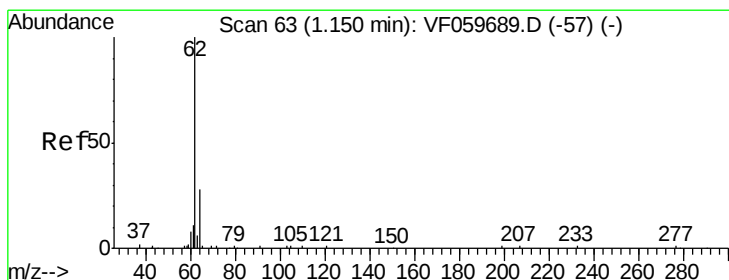
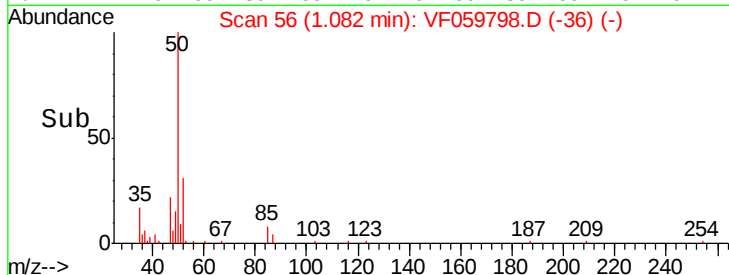
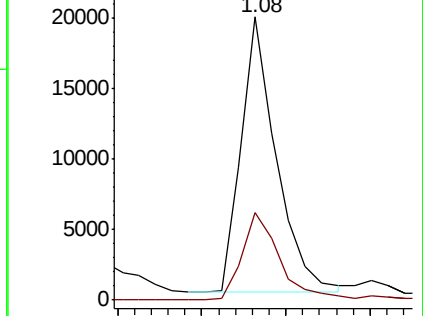
apatel

8/3/2018 2:39:00 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 26.23 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF059798.D

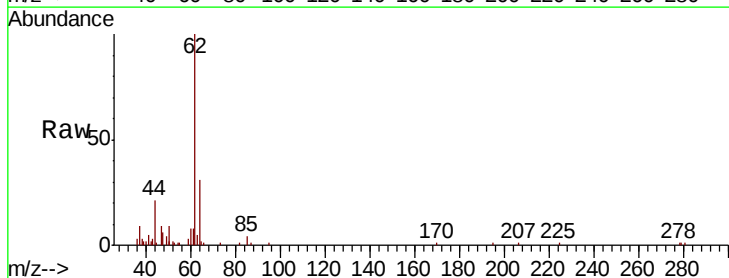
Acq: 2 Aug 2018 14:08

Tgt Ion: 62 Resp: 34059

Ion Ratio Lower Upper

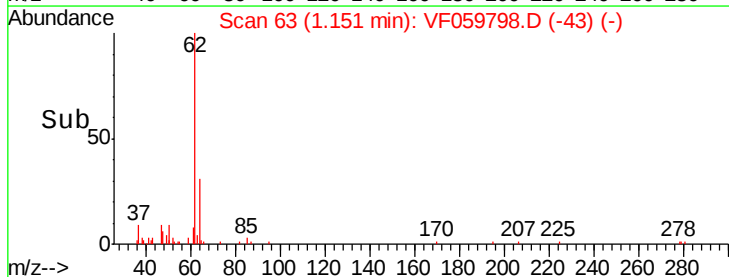
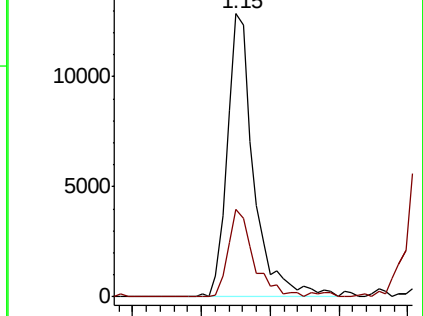
62 100

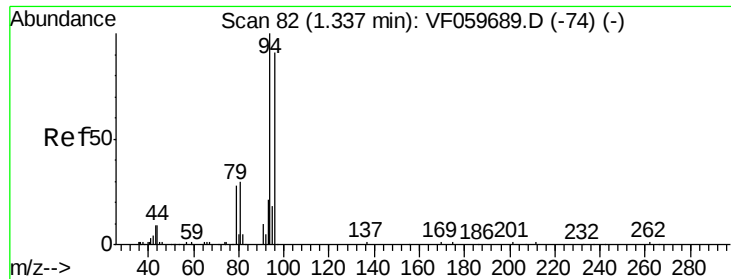
64 30.8 22.6 33.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 25.17 ug/l

RT: 1.34 min Scan# 82

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 94 Resp: 27247

Ion Ratio Lower Upper

94 100

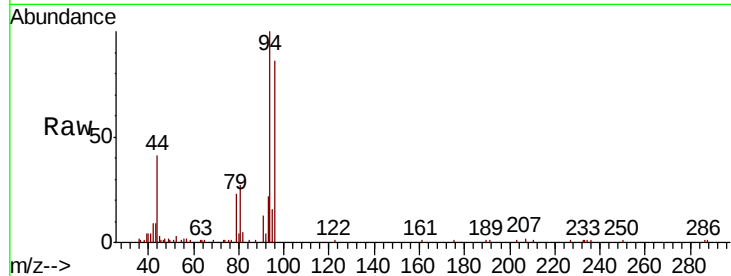
96 86.5 73.6 110.4

Manual Integrations

APPROVED

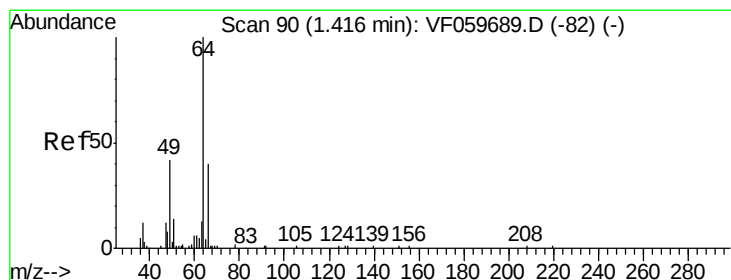
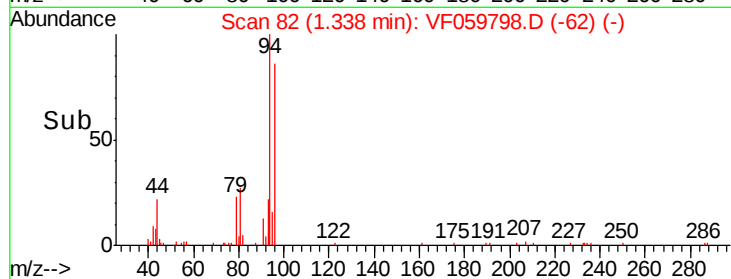
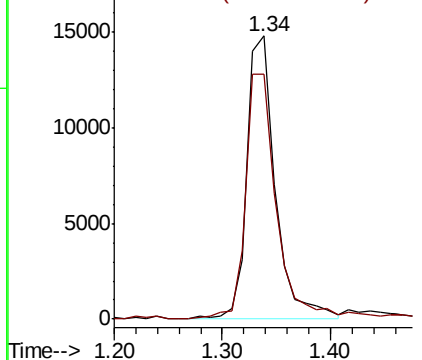
apatel

8/3/2018 2:39:00 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 22.16 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.00 min

Lab File: VF059798.D

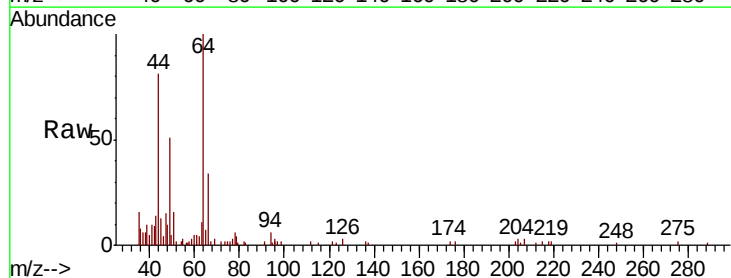
Acq: 2 Aug 2018 14:08

Tgt Ion: 64 Resp: 18203

Ion Ratio Lower Upper

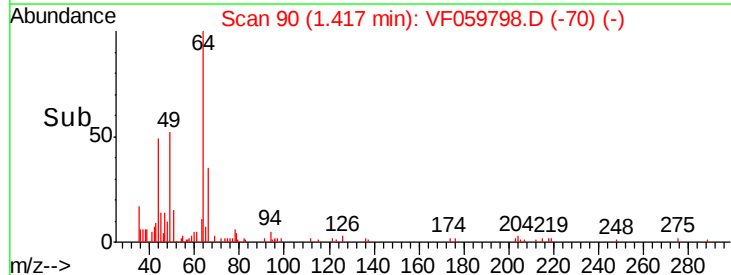
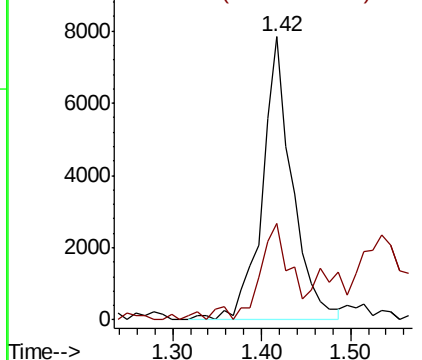
64 100

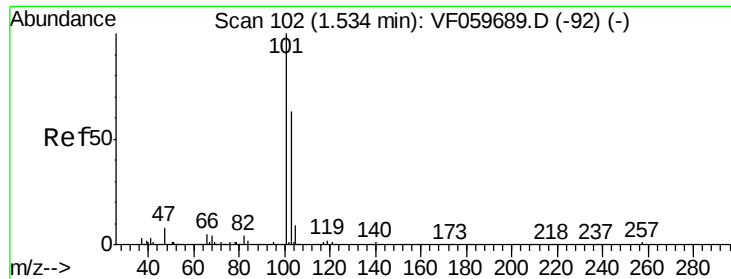
66 34.3 32.6 49.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

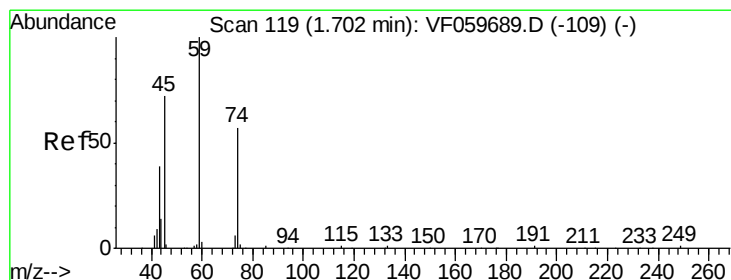
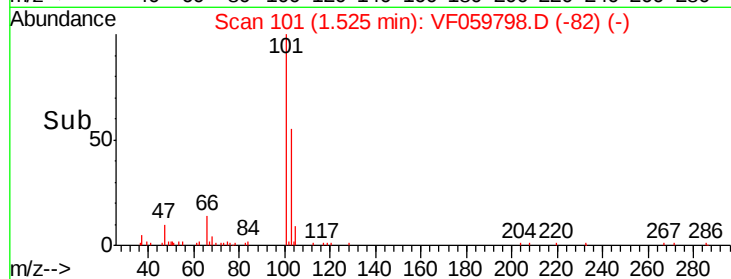
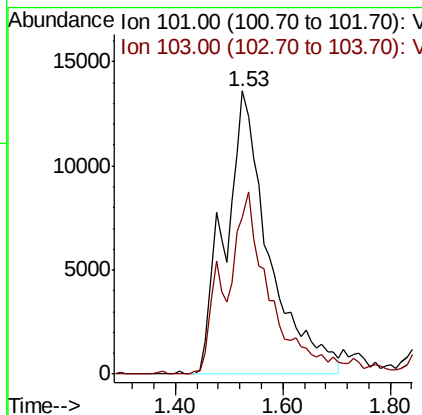
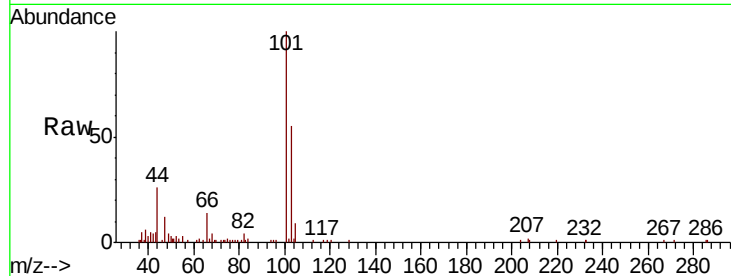
Trichlorofluoromethane
 Concen: 21.00 ug/l m
 RT: 1.53 min Scan# 101
 Delta R.T. -0.01 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	55.4	50.8	76.2

Manual Integrations
 APPROVED

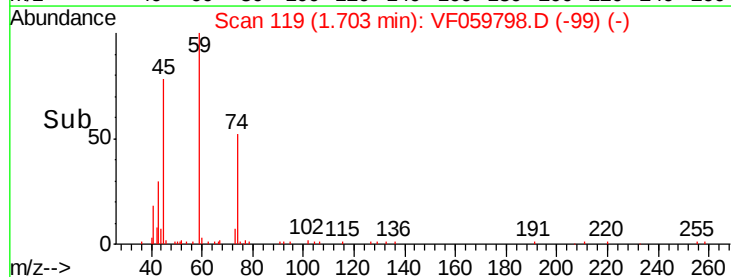
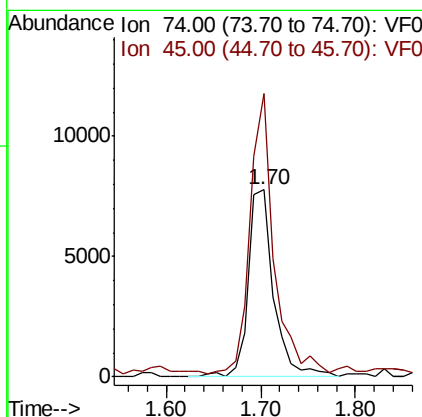
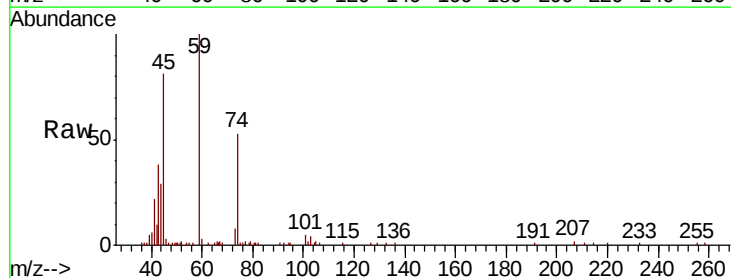
apatel
 8/3/2018 2:39:00 PM

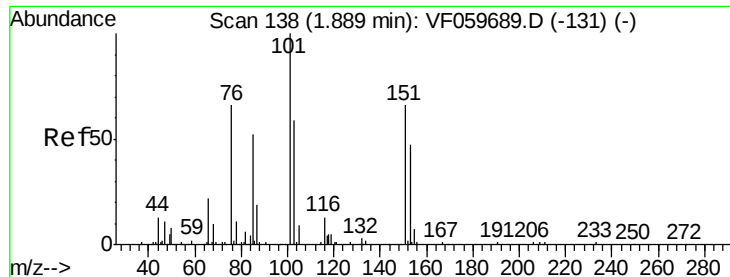


#8

Diethyl Ether
 Concen: 23.04 ug/l
 RT: 1.70 min Scan# 119
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	151.2	62.7	188.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.23 ug/l

RT: 1.90 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

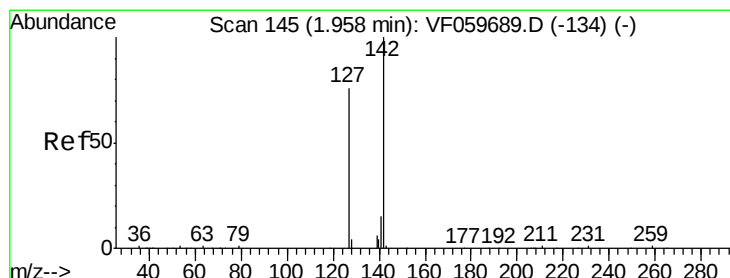
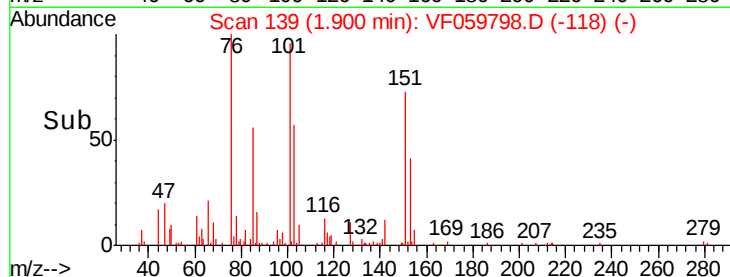
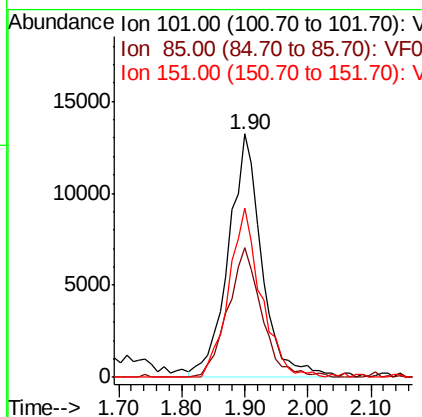
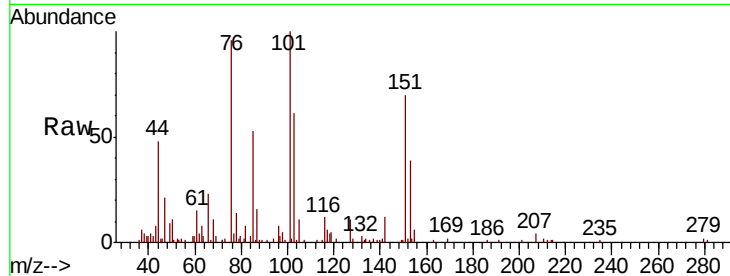
ClientSampleId :

VF0802SBS01

Tot Ion:	101	Resp:	48461
Ion Ratio	Lower	Upper	
101	100		
85	53.3	40.7	61.1
151	69.8	51.4	77.2

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#10

Methyl Iodide

Concen: 25.08 ug/l

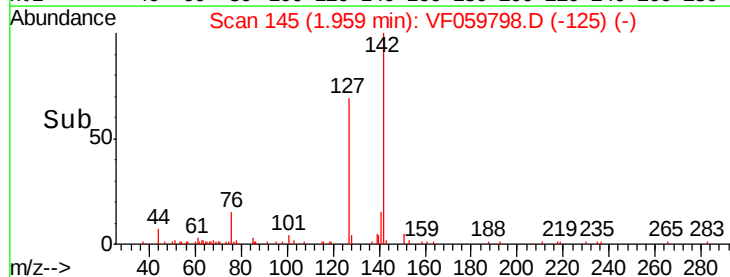
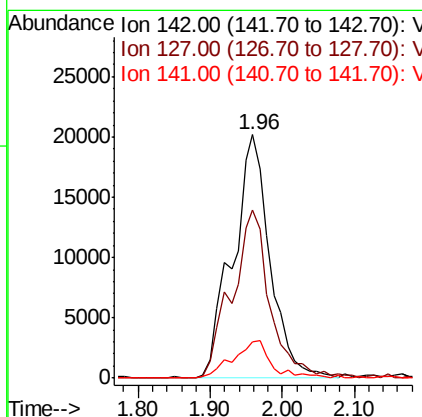
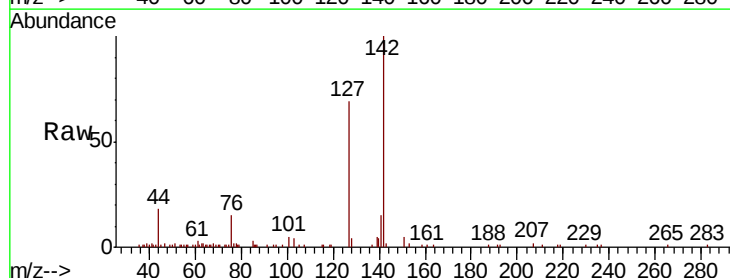
RT: 1.96 min Scan# 145

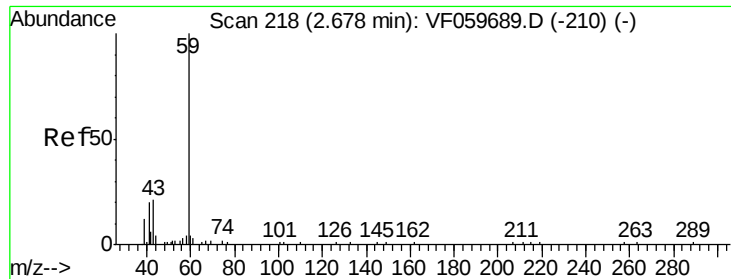
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	142	Resp:	72937
Ion Ratio	Lower	Upper	
142	100		
127	68.9	60.6	91.0
141	15.1	12.0	18.0





#11

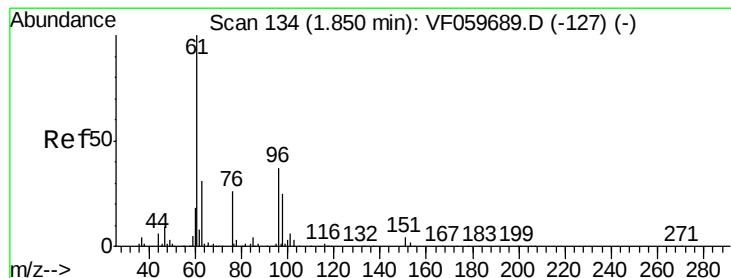
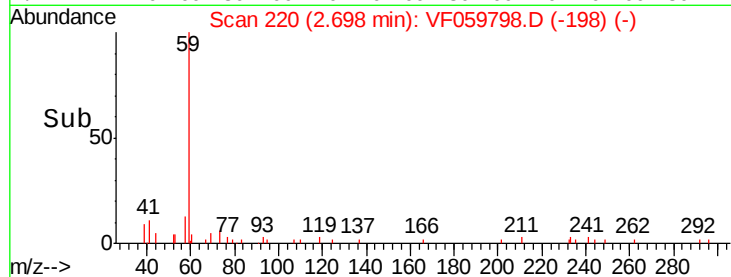
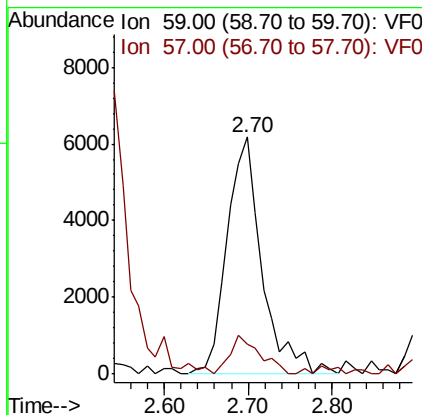
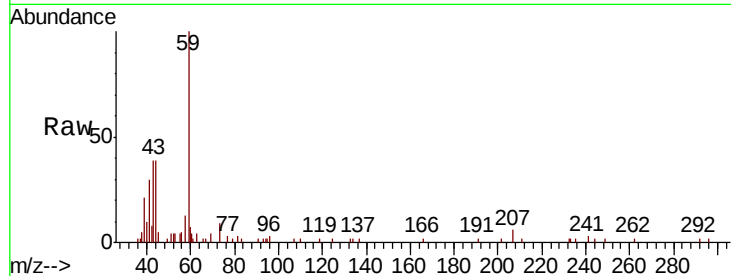
Tert butyl alcohol
 Concen: 125.08 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. 0.02 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.6	7.6	11.4#

Manual Integrations
 APPROVED

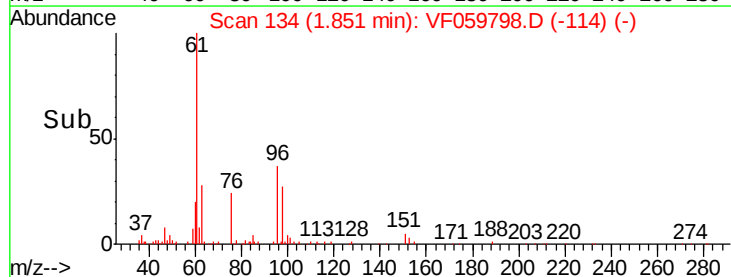
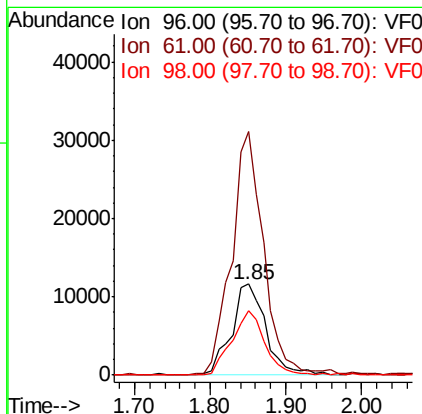
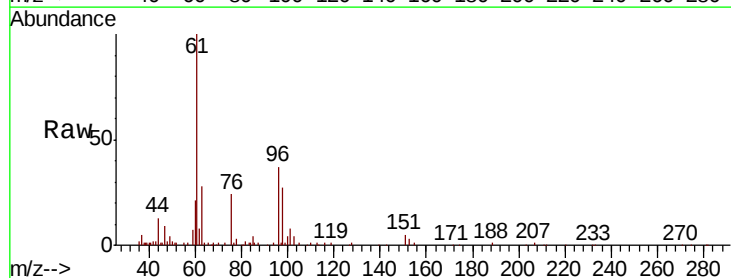
apatel
 8/3/2018 2:39:00 PM

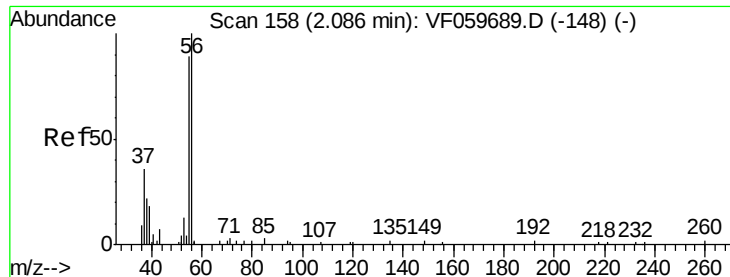


#12

1,1-Dichloroethene
 Concen: 24.05 ug/l
 RT: 1.85 min Scan# 134
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	267.5	215.1	322.7
98	71.5	54.3	81.5





#13

Acrolein

Concen: 80.60 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 56 Resp: 5141

Ion Ratio Lower Upper

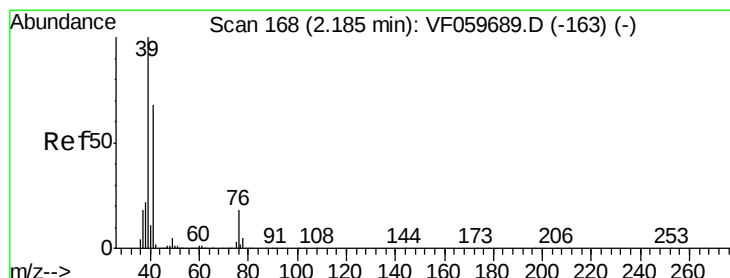
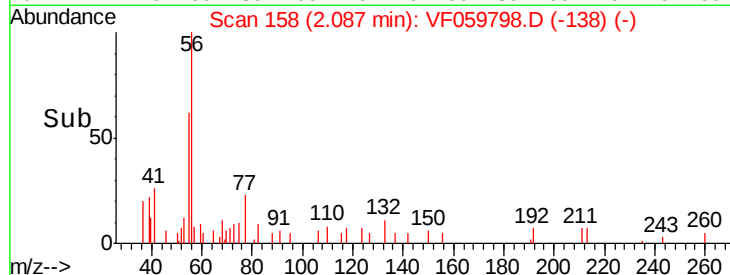
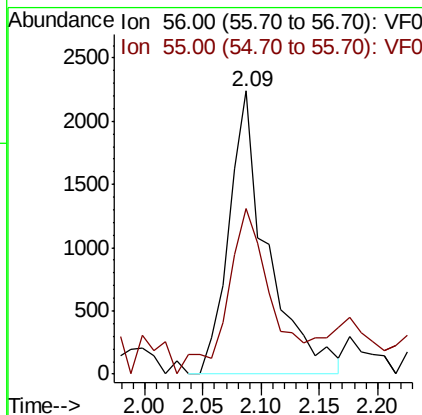
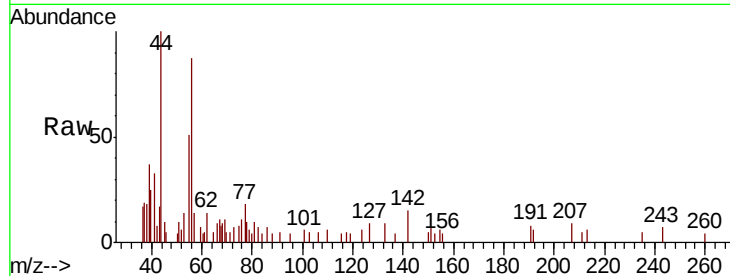
56 100

55 58.6 73.2 109.8#

Manual Integrations
APPROVED

apatel

8/3/2018 2:39:00 PM



#14

Allyl chloride

Concen: 23.50 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

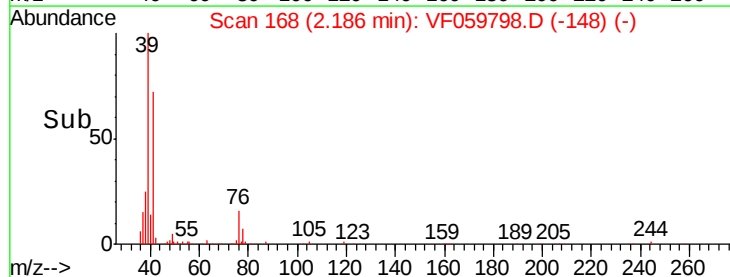
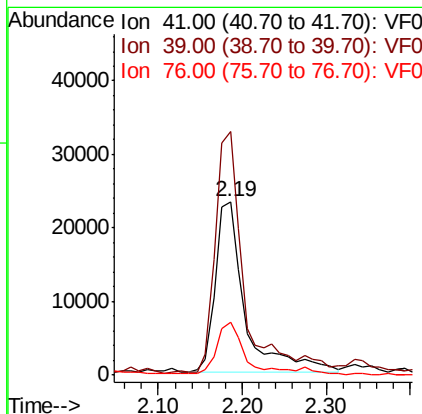
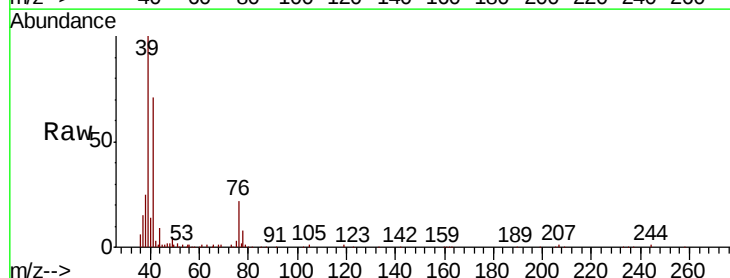
Tgt Ion: 41 Resp: 57076

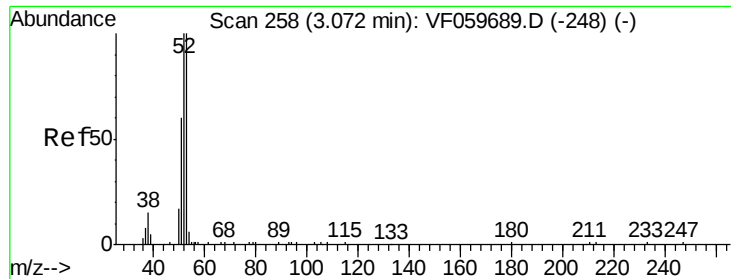
Ion Ratio Lower Upper

41 100

39 140.4 118.1 177.1

76 30.4 22.0 33.0





#15

Acrylonitrile

Concen: 118.53 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

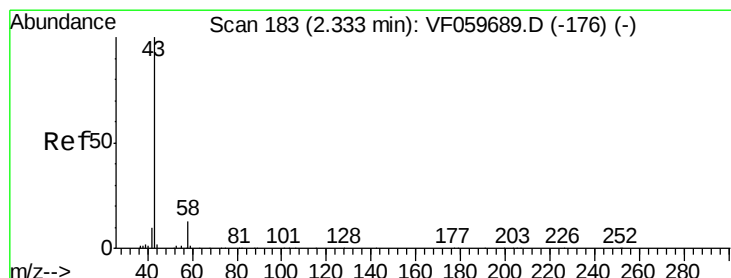
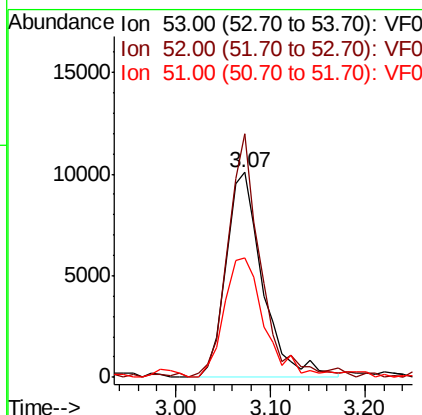
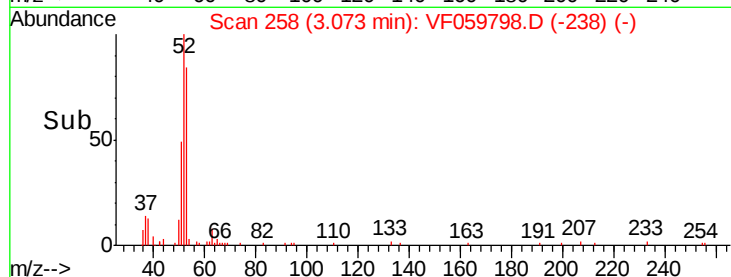
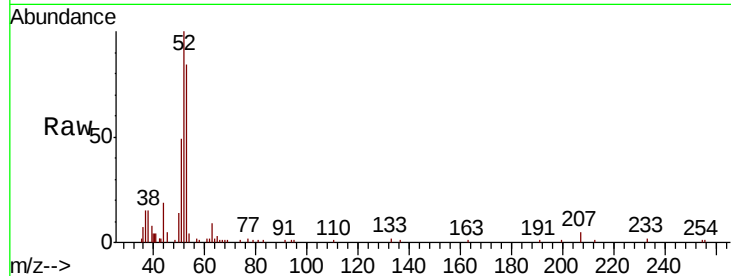
ClientSampleId :

VF0802SBS01

Tot Ion:	53	Resp:	27025
Ion	Ratio	Lower	Upper
53	100		
52	118.9	80.3	120.5
51	58.3	49.4	74.0

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#16

Acetone

Concen: 126.08 ug/l

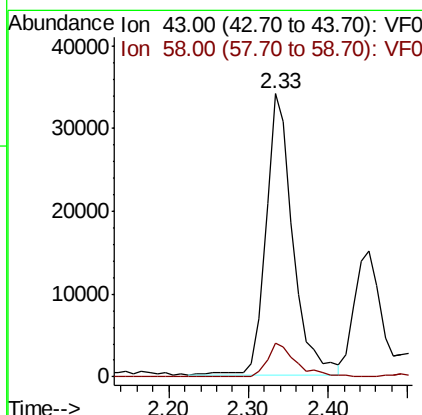
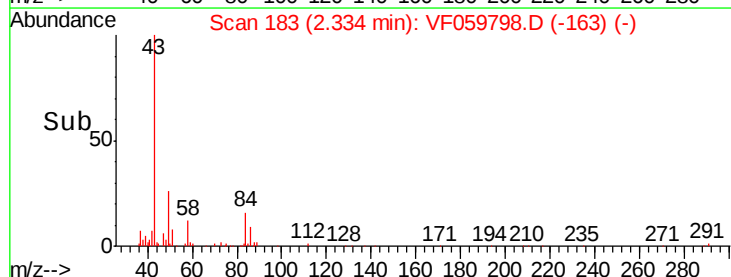
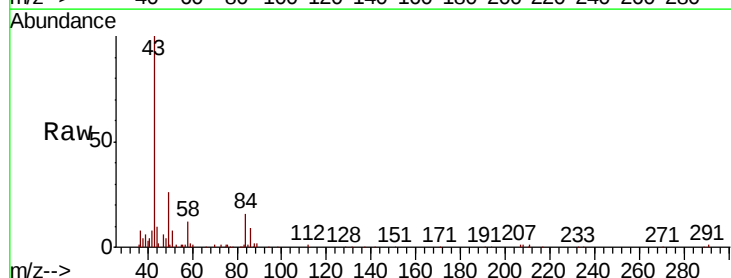
RT: 2.33 min Scan# 183

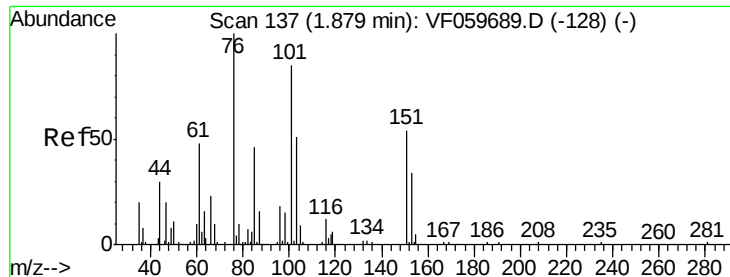
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	43	Resp:	80049
Ion	Ratio	Lower	Upper
43	100		
58	12.0	10.1	15.1





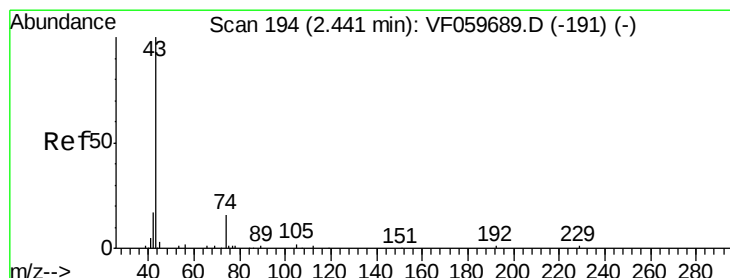
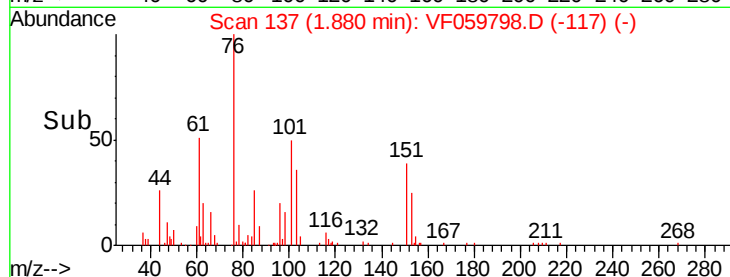
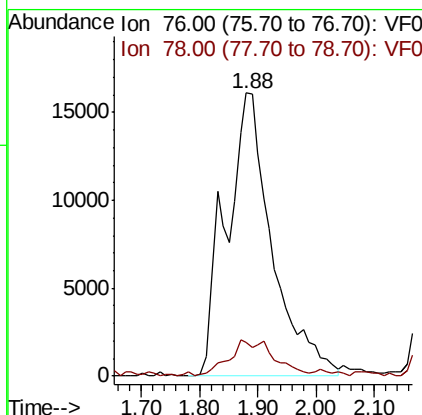
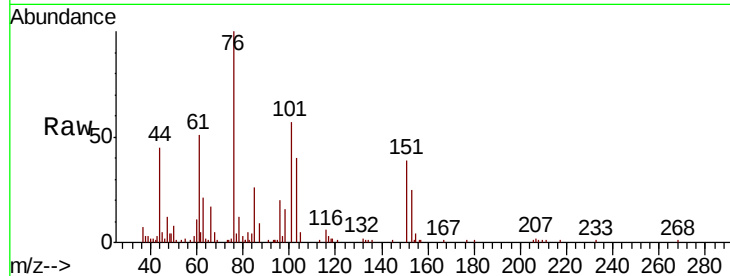
#17
Carbon Disulfide
Concen: 25.85 ug/l
RT: 1.88 min Scan# 137
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.0	8.9	13.3

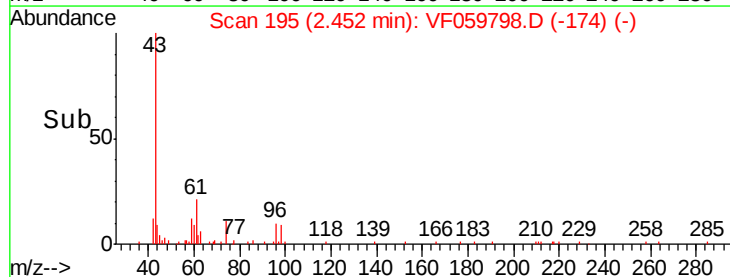
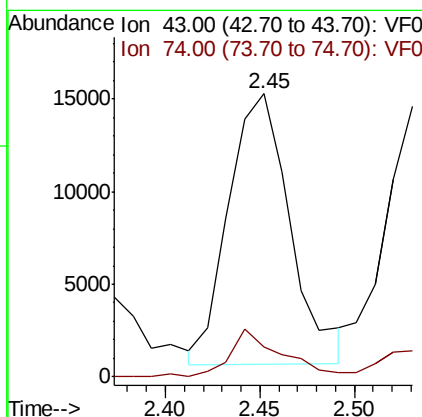
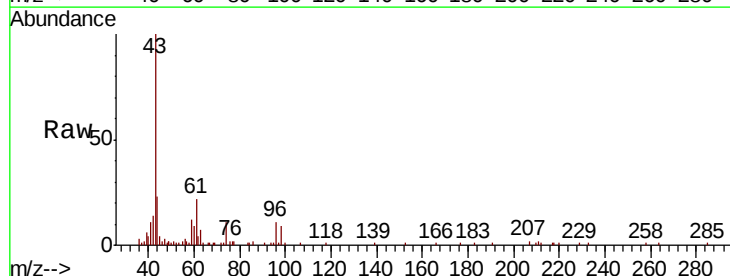
Manual Integrations
APPROVED

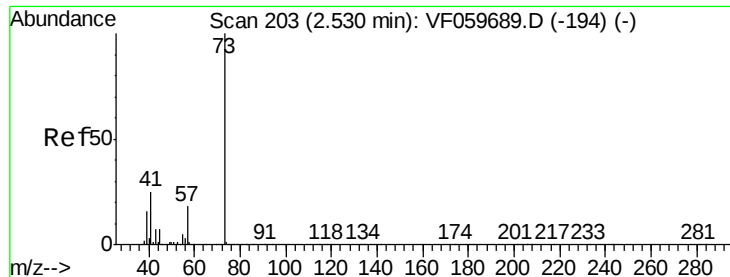
apatel
8/3/2018 2:39:00 PM



#18
Methyl Acetate
Concen: 31.55 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	10.7	11.8	17.6#





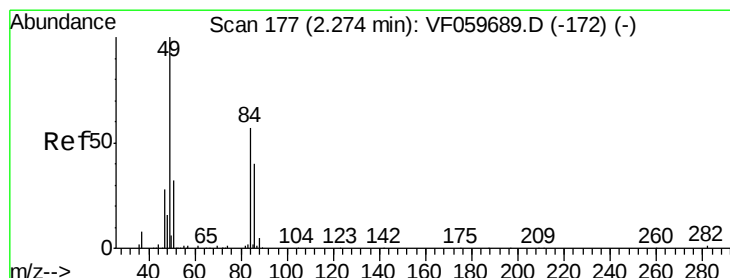
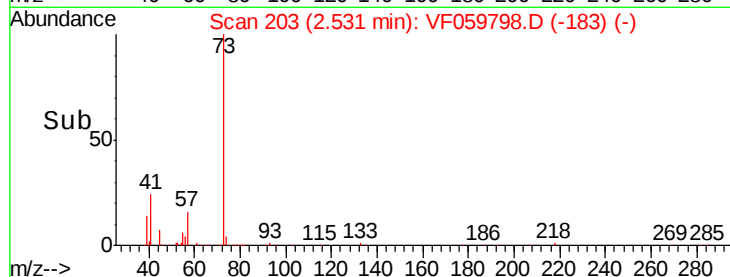
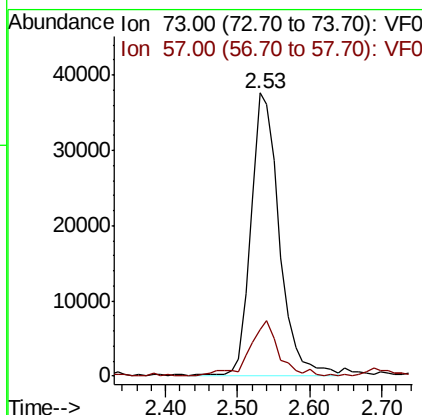
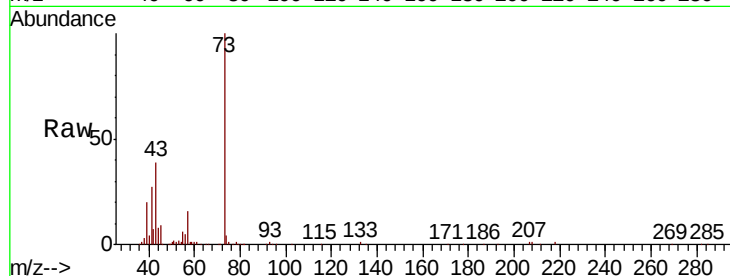
#19
Methvl tert-butvl Ether
Concen: 22.12 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.5	14.2	21.2

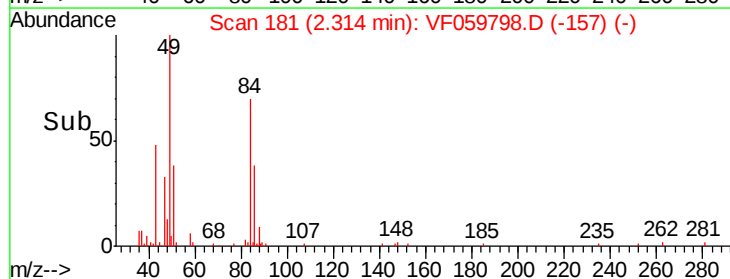
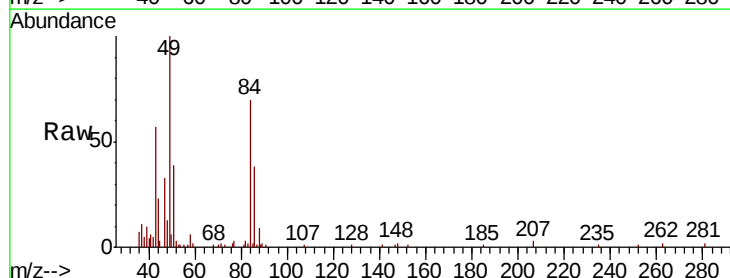
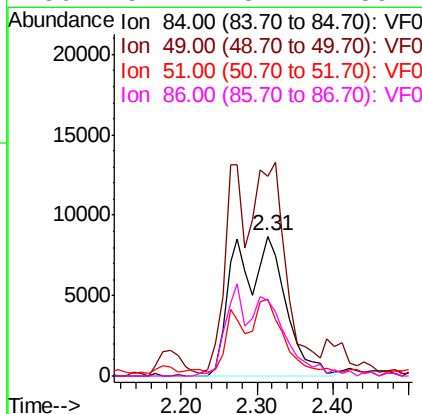
Manual Integrations
APPROVED

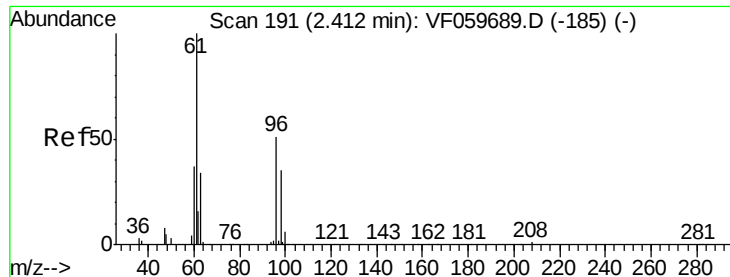
apatel
8/3/2018 2:39:00 PM



#20
Methylene Chloride
Concen: 25.48 ug/l m
RT: 2.31 min Scan# 181
Delta R.T. 0.04 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	142.9	142.2	213.4
51	55.0	46.2	69.2
86	54.2	57.1	85.7#





#21

trans-1,2-Dichloroethene

Concen: 25.55 ug/l

RT: 2.40 min Scan# 190

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

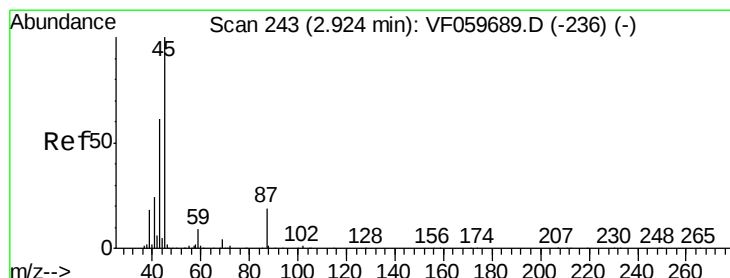
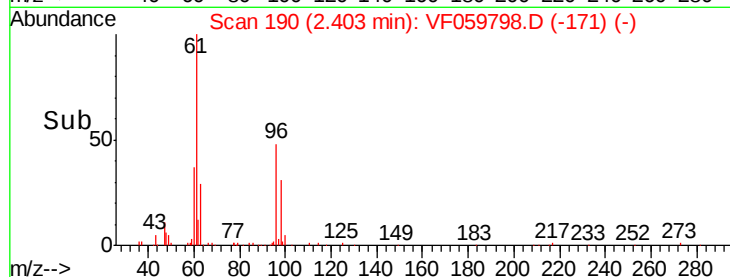
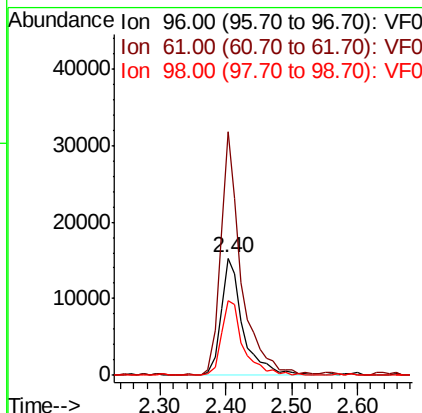
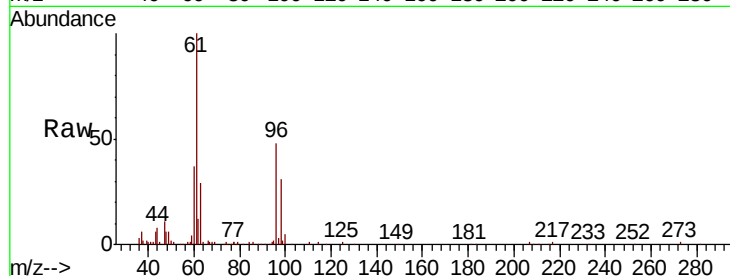
ClientSampleId :

VF0802SBS01

Tot Ion:	96	Resp:	35681
Ion	Ratio	Lower	Upper
96	100		
61	207.2	157.4	236.0
98	64.1	55.0	82.4

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#22

Diisopropyl ether

Concen: 24.89 ug/l

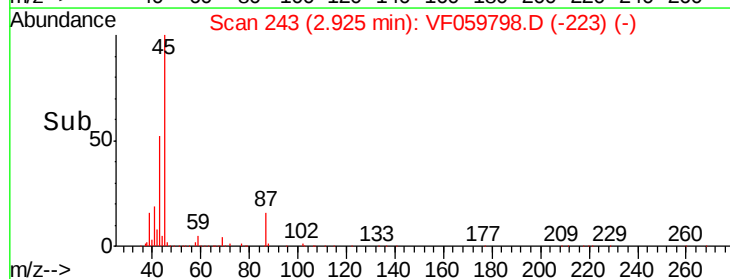
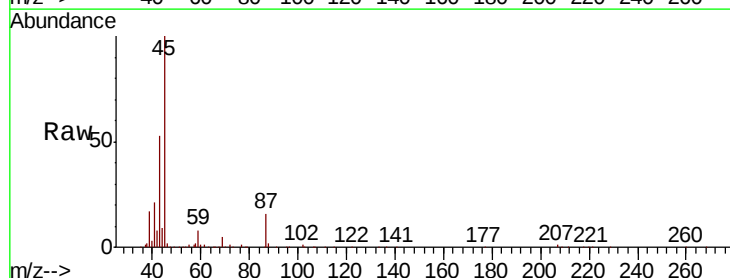
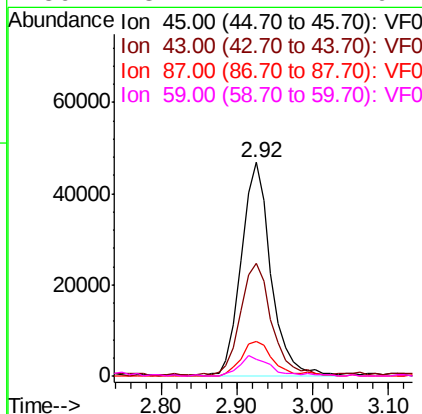
RT: 2.92 min Scan# 243

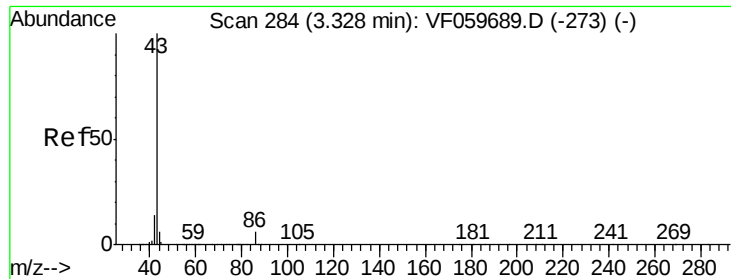
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	45	Resp:	127819
Ion	Ratio	Lower	Upper
45	100		
43	52.7	49.3	73.9
87	16.2	15.3	22.9
59	8.1	7.1	10.7





#23

Vinyl Acetate

Concen: 113.81 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleID :

VF0802SBS01

Tot Ion: 43 Resp: 300476

Ion Ratio Lower Upper

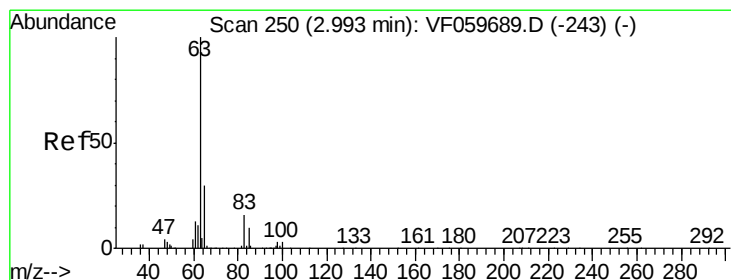
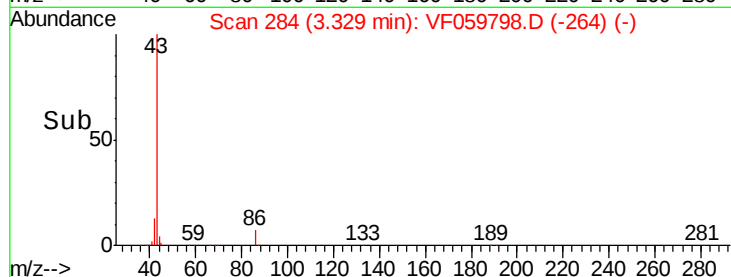
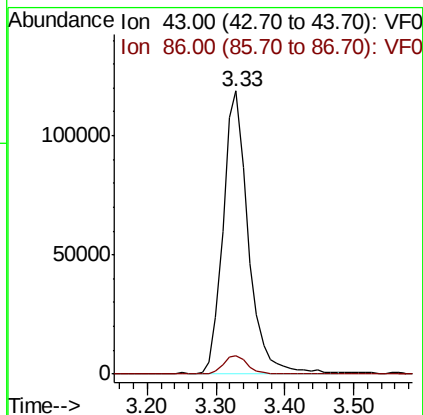
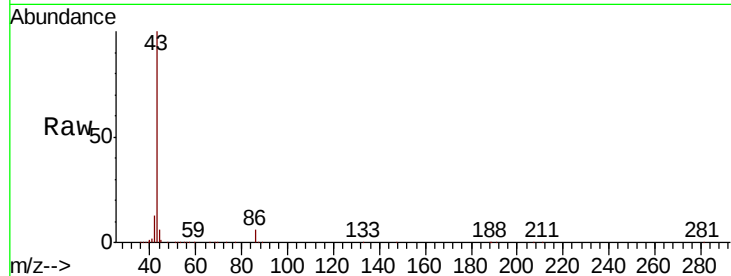
43 100

86 6.5 4.6 6.8

Manual Integrations
APPROVED

apatel

8/3/2018 2:39:00 PM



#24

1,1-Dichloroethane

Concen: 23.19 ug/l

RT: 2.99 min Scan# 250

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

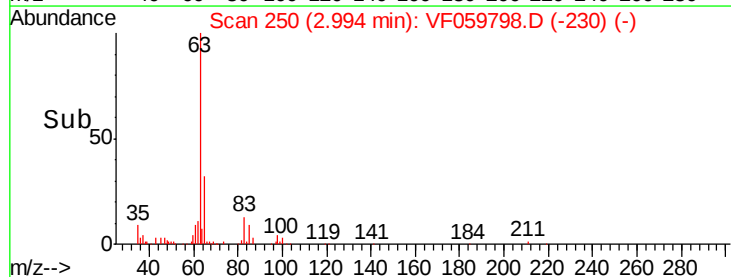
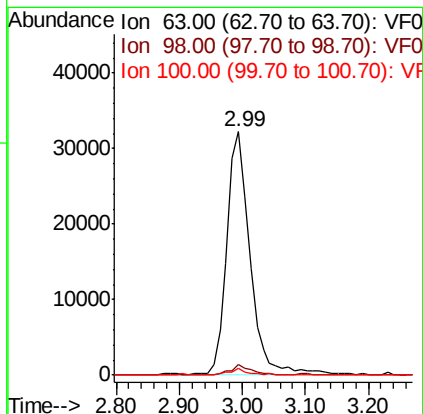
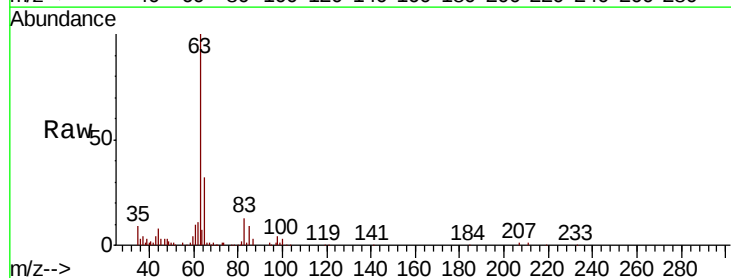
Tgt Ion: 63 Resp: 82726

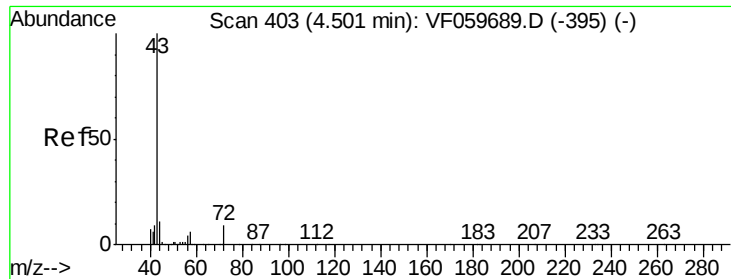
Ion Ratio Lower Upper

63 100

98 4.4 1.4 4.2#

100 2.7 1.6 4.7





#25

2-Butanone

Concen: 113.28 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 43 Resp: 80265

Ion Ratio Lower Upper

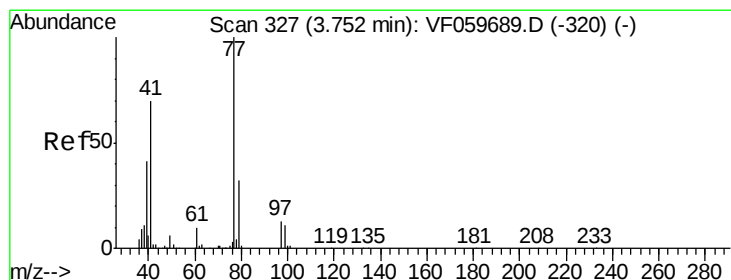
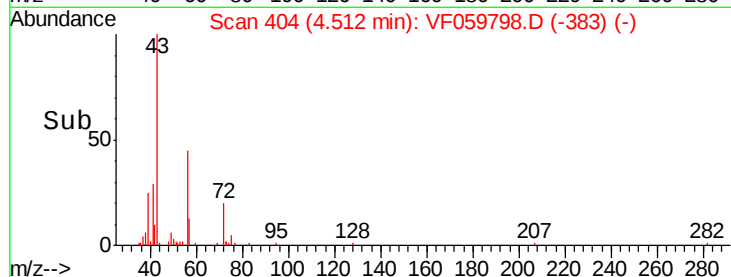
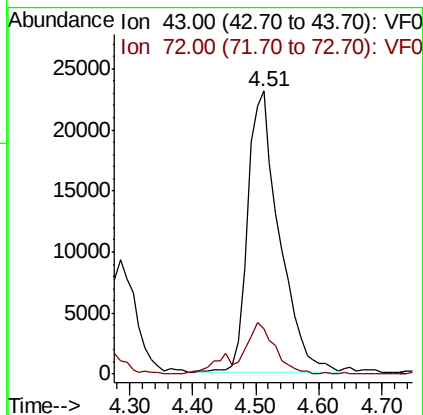
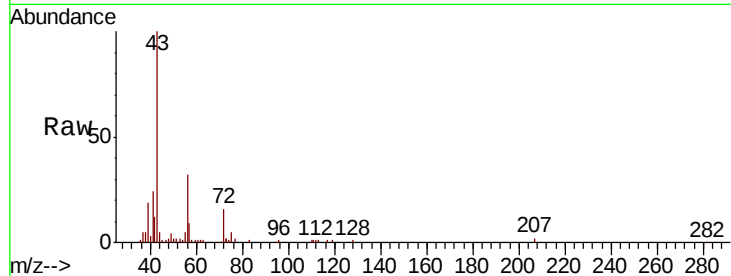
43 100

72 15.9 7.7 11.5#

Manual Integrations
APPROVED

apatel

8/3/2018 2:39:00 PM



#26

2,2-Dichloropropane

Concen: 23.51 ug/l

RT: 3.75 min Scan# 327

Delta R.T. 0.00 min

Lab File: VF059798.D

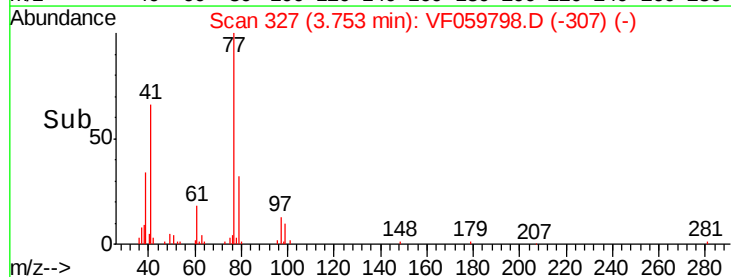
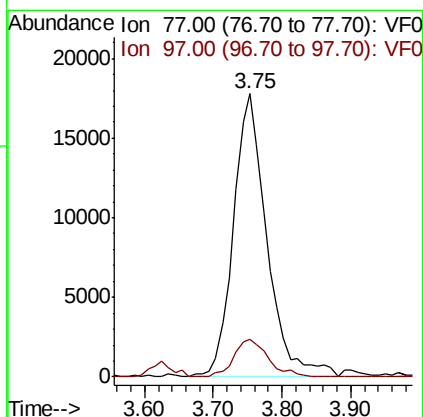
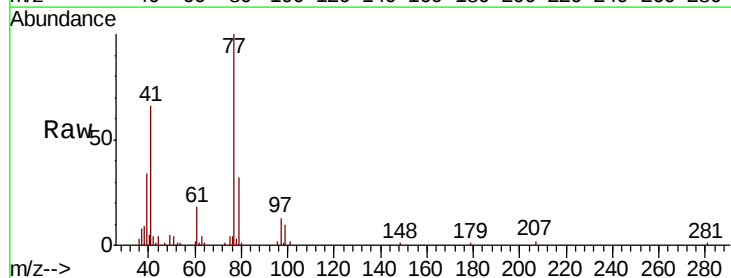
Acq: 2 Aug 2018 14:08

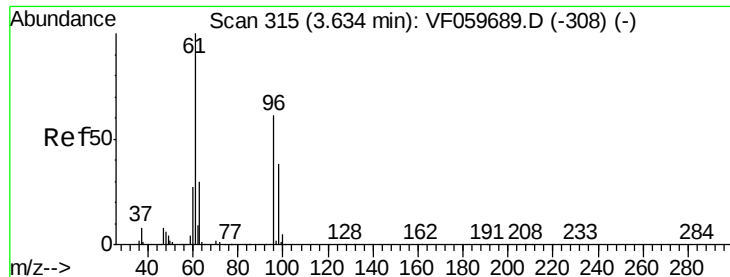
Tgt Ion: 77 Resp: 59791

Ion Ratio Lower Upper

77 100

97 13.2 6.8 20.4





#27

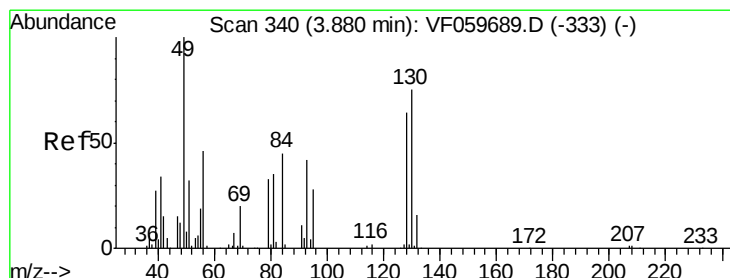
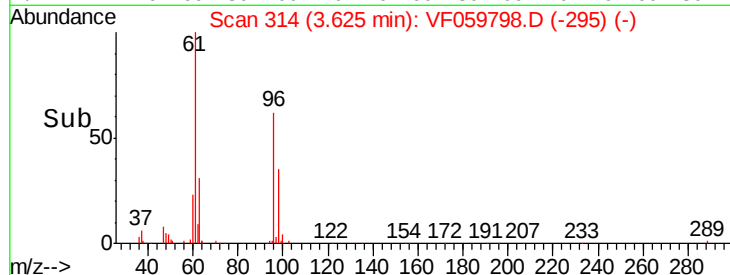
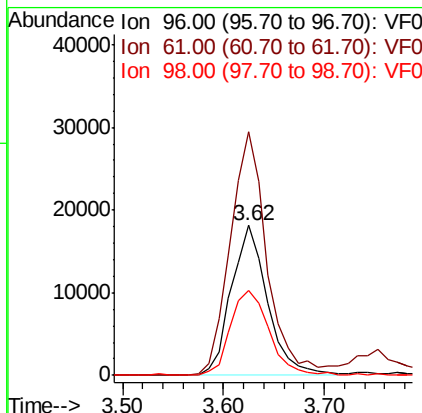
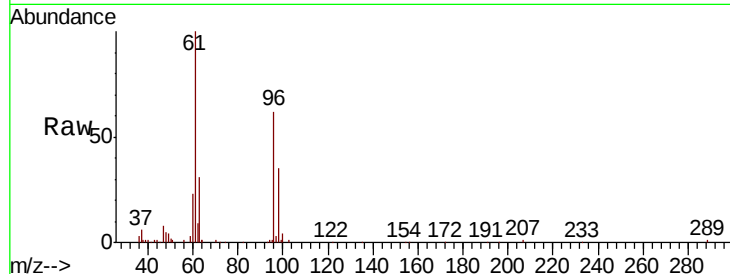
cis-1,2-Dichloroethene
Concen: 23.73 ug/l
RT: 3.62 min Scan# 314
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	162.3	0.0	326.8
98	56.4	0.0	125.2

Manual Integrations
APPROVED

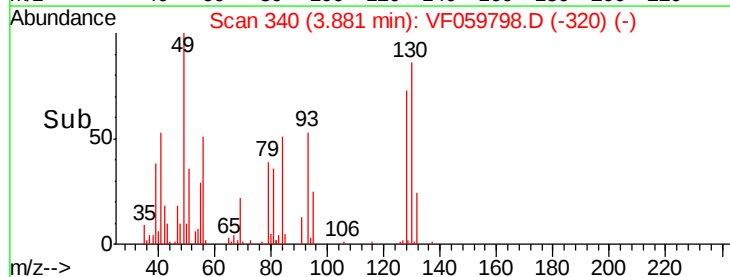
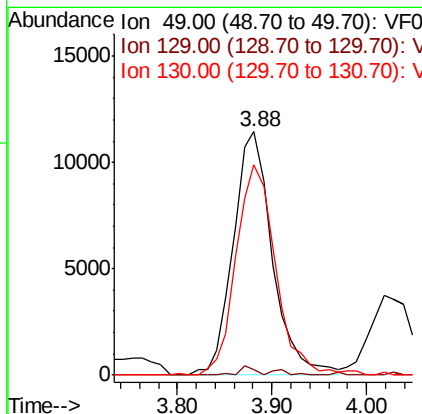
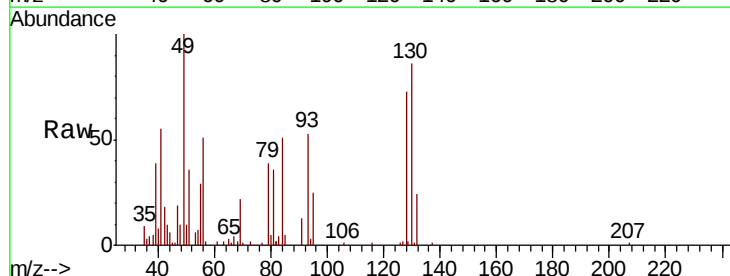
apatel
8/3/2018 2:39:00 PM

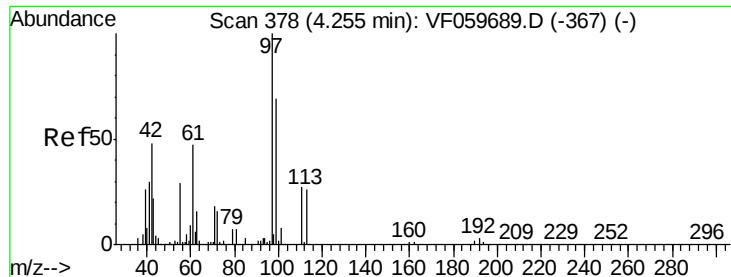


#28

Bromochloromethane
Concen: 24.08 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.8
130	86.4	59.6	89.4





#29

Tetrahydrofuran

Concen: 126.43 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

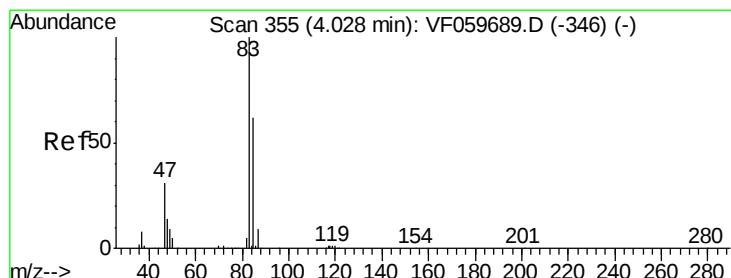
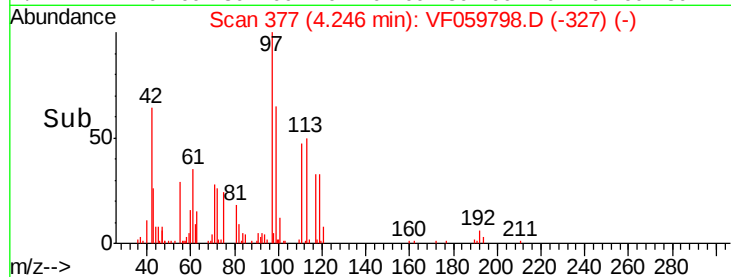
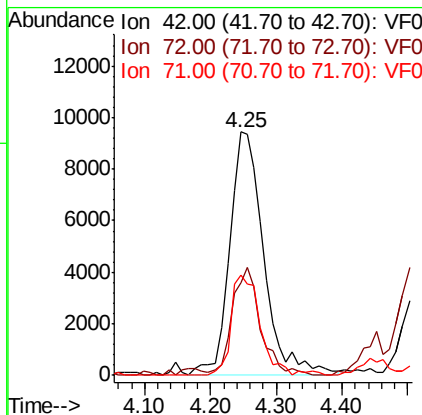
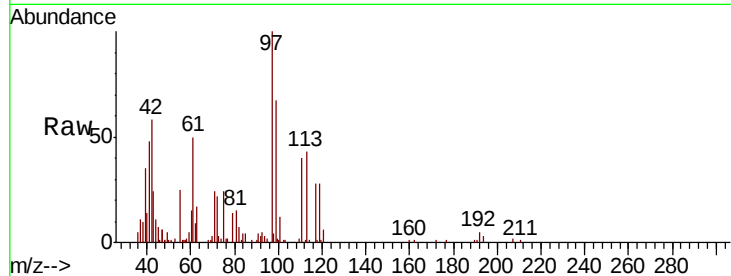
ClientSampleId :

VF0802SBS01

Tot Ion:	42	Resp:	34430
Ion	Ratio	Lower	Upper
42	100		
72	36.7	27.0	40.6
71	34.3	29.7	44.5

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#30

Chloroform

Concen: 22.85 ug/l

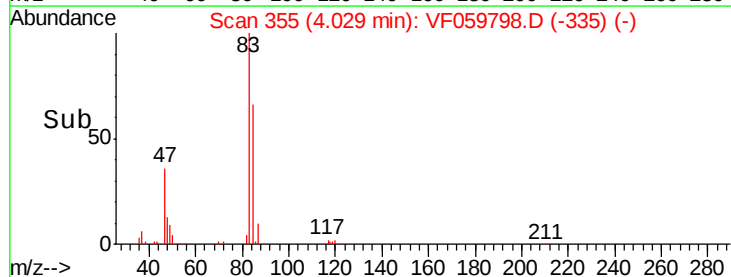
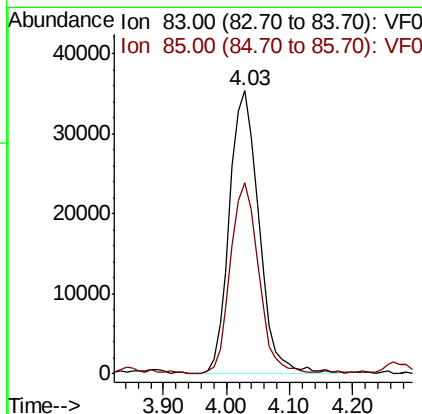
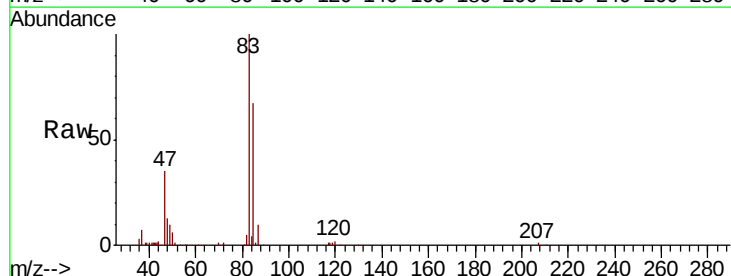
RT: 4.03 min Scan# 355

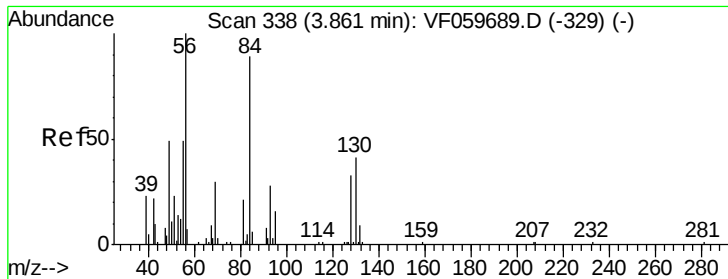
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	83	Resp:	115034
Ion	Ratio	Lower	Upper
83	100		
85	67.4	49.4	74.0





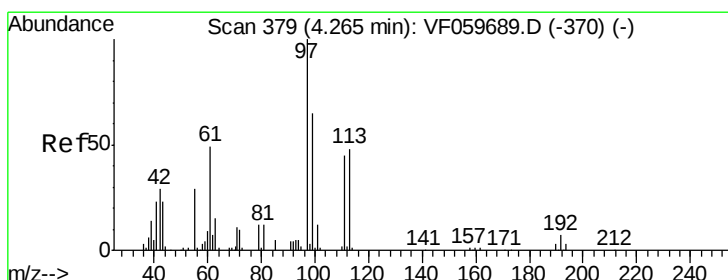
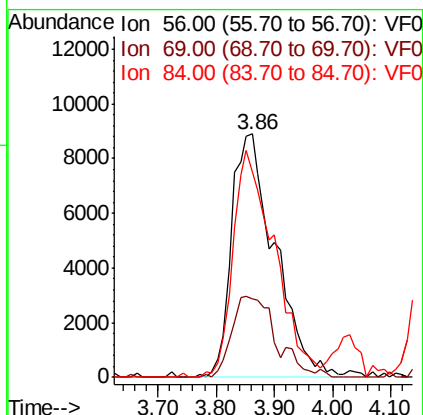
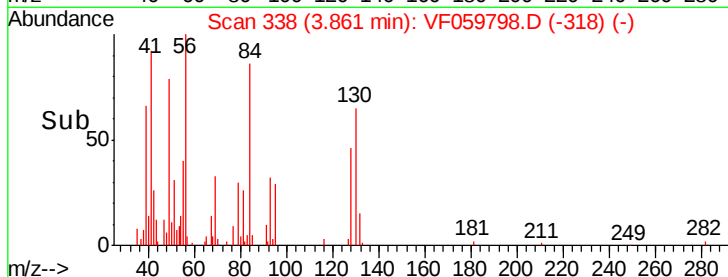
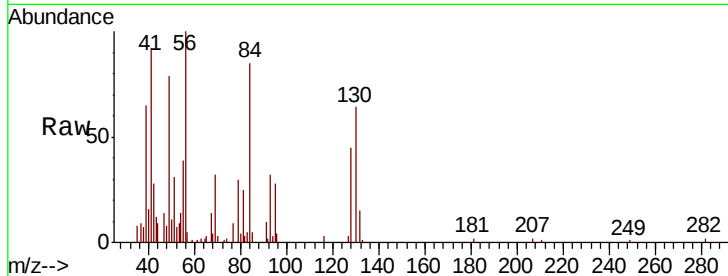
#31
Cyclohexane
Concen: 24.45 ug/l
RT: 3.86 min Scan# 338
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	23.7	35.5
84	84.5	71.1	106.7

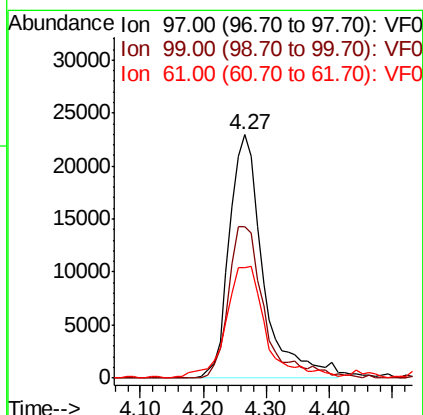
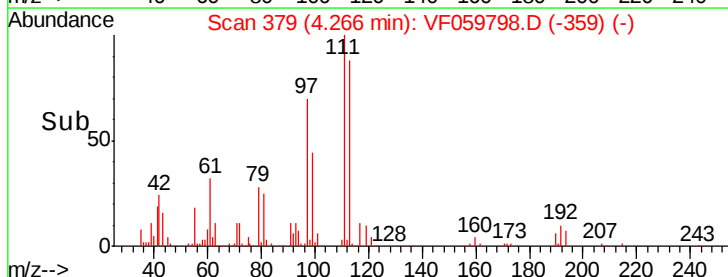
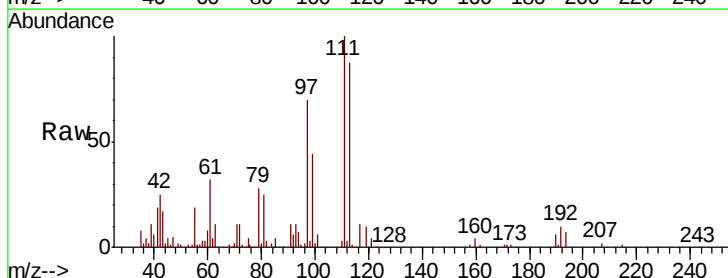
Manual Integrations
APPROVED

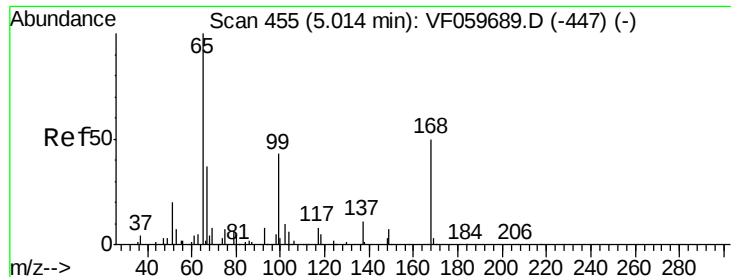
apatel
8/3/2018 2:39:00 PM



#32
1,1,1-Trichloroethane
Concen: 21.92 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.3	52.4	78.6
61	45.4	39.7	59.5





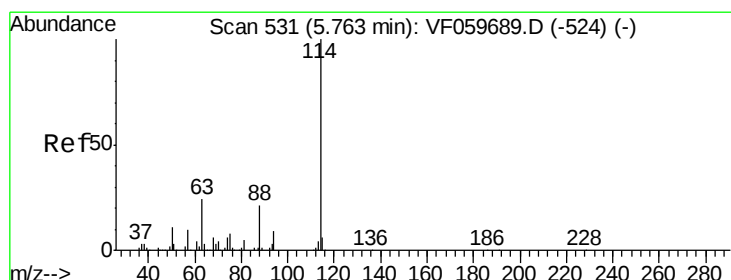
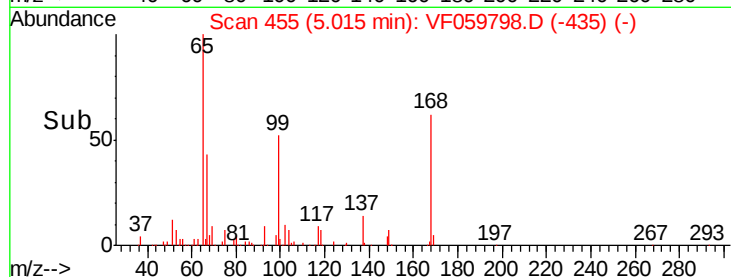
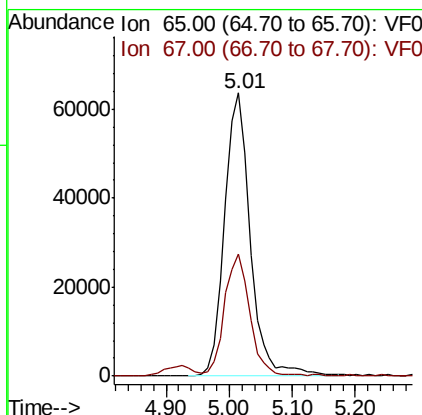
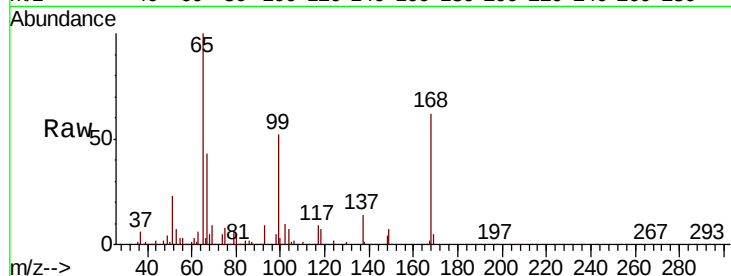
#33
 1,2-Dichloroethane-d4
 Concen: 50.57 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	178484		
67	43.3	0.0	84.6	

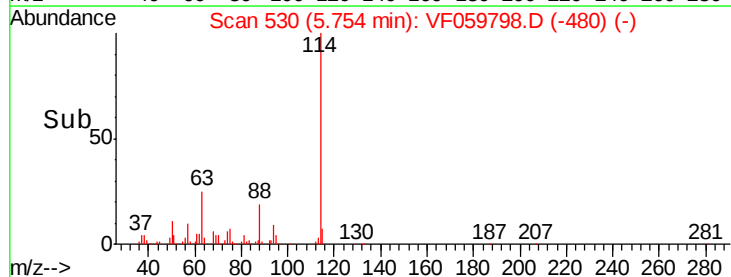
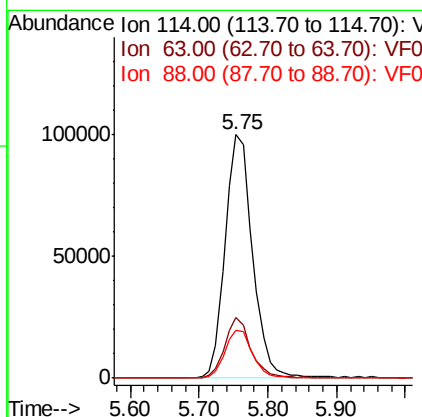
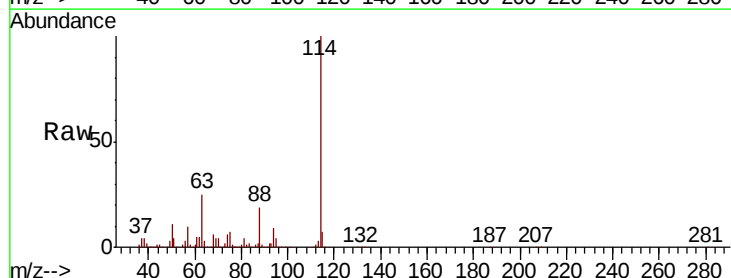
Manual Integrations
 APPROVED

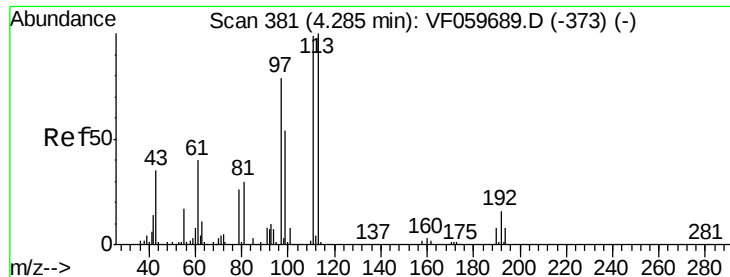
apatel
 8/3/2018 2:39:00 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	276199		
63	25.1	0.0	47.4	
88	19.5	0.0	41.2	





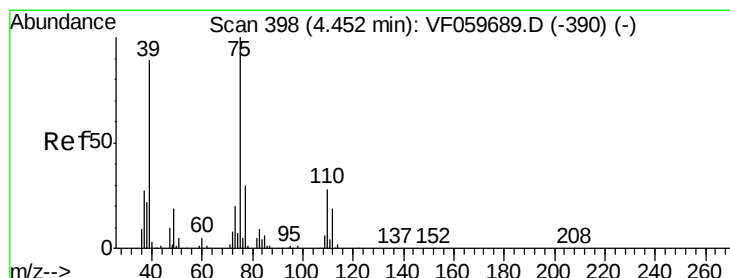
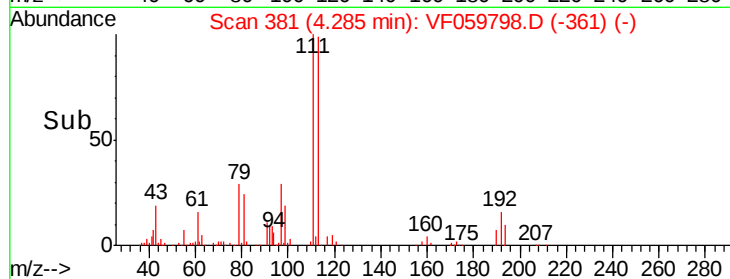
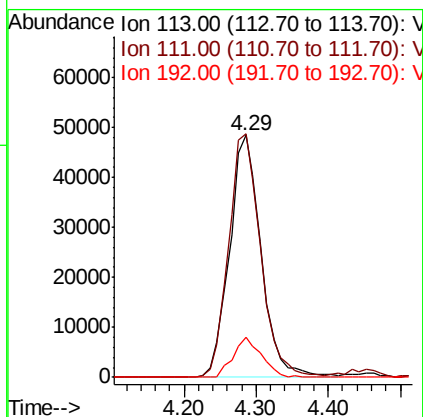
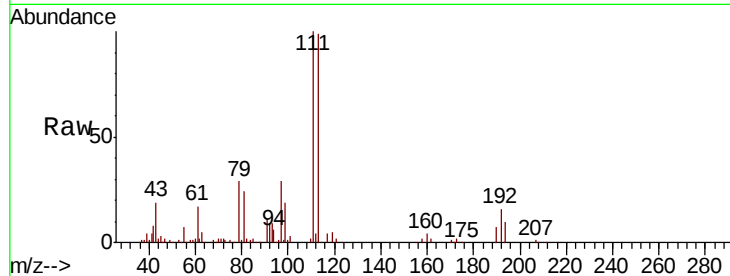
#35
 Dibromofluoromethane
 Concen: 51.57 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	79.0	118.4
192	16.4	13.2	19.8

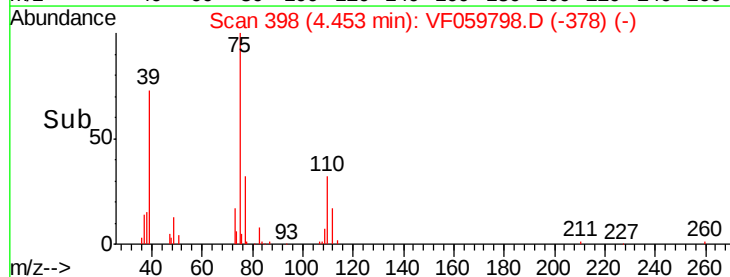
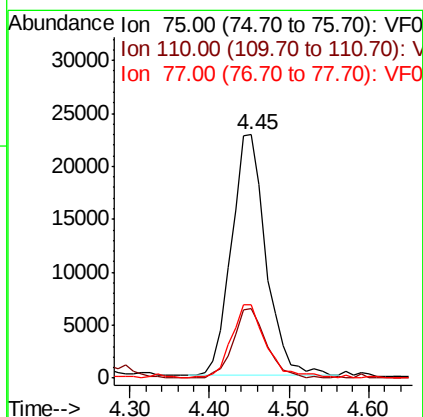
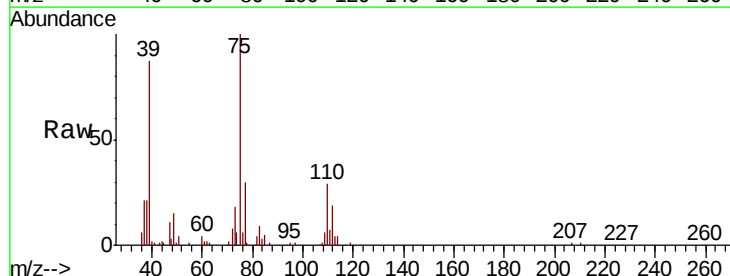
Manual Integrations
 APPROVED

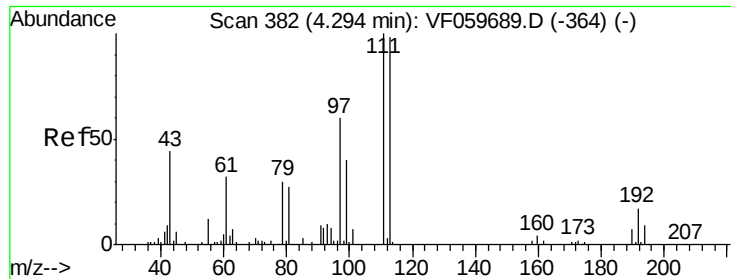
apatel
 8/3/2018 2:39:00 PM



#36
 1,1-Dichloropropene
 Concen: 22.45 ug/l
 RT: 4.45 min Scan# 398
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	28.6	14.0	41.9
77	30.0	24.2	36.2





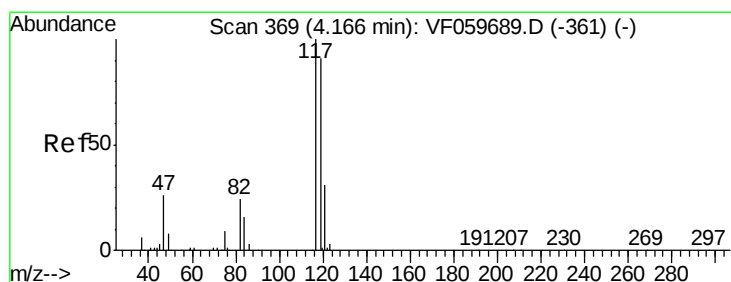
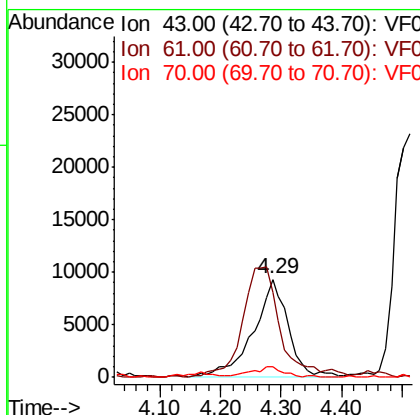
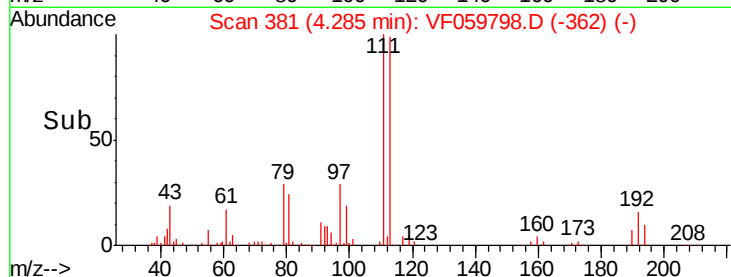
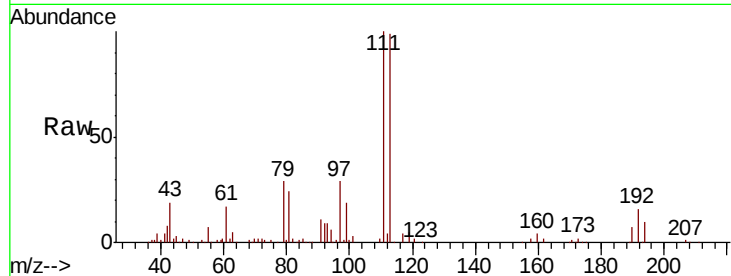
#37
Ethyl Acetate
Concen: 24.82 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
37431	100	86.2	10.9			
		58.2	6.0			
			9.0			

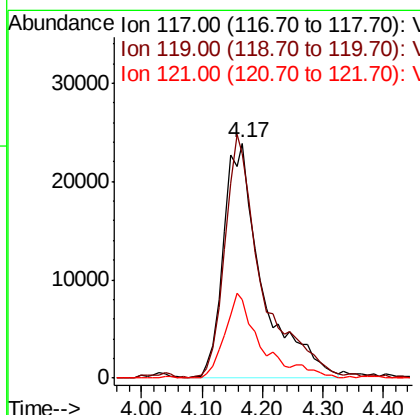
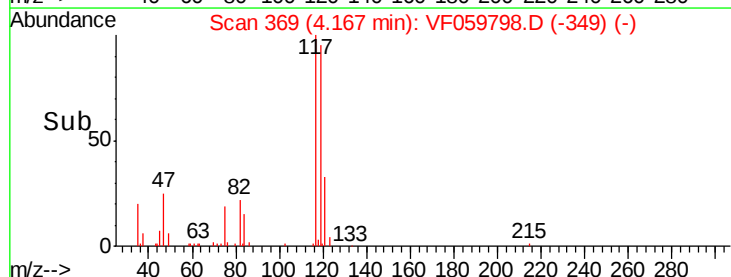
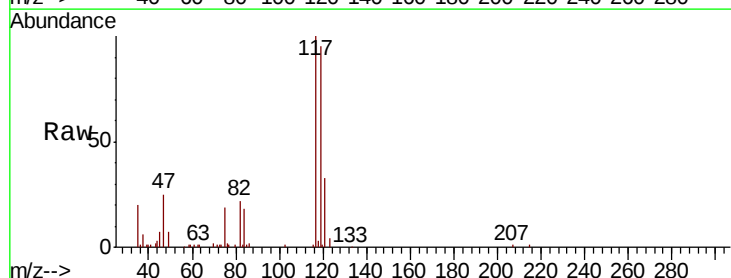
Manual Integrations
APPROVED

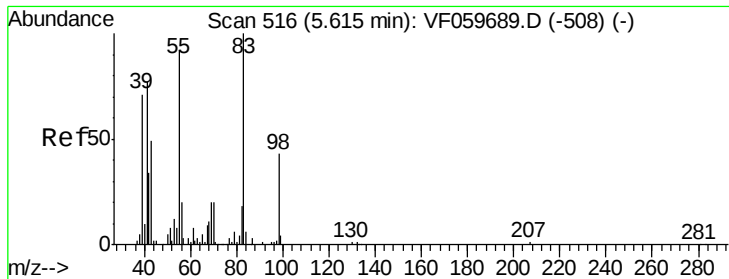
apatel
8/3/2018 2:39:00 PM



#38
Carbon Tetrachloride
Concen: 24.22 ug/l
RT: 4.17 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	117	119	121	Ratio	Lower	Upper
106339	100	95.7	33.3			
		72.9	25.0			
			37.4			





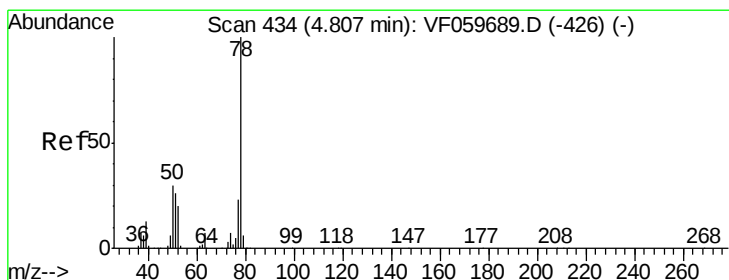
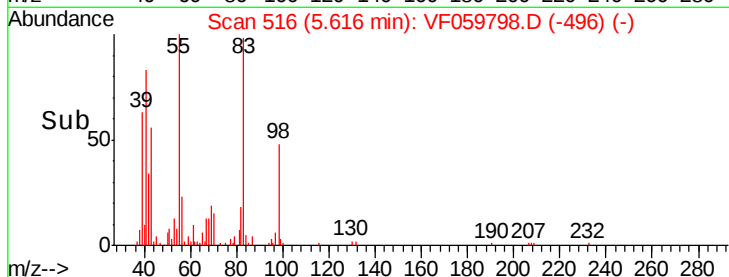
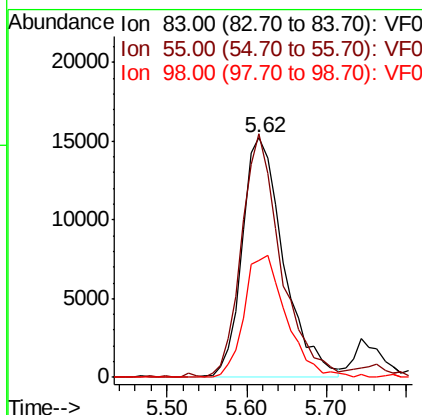
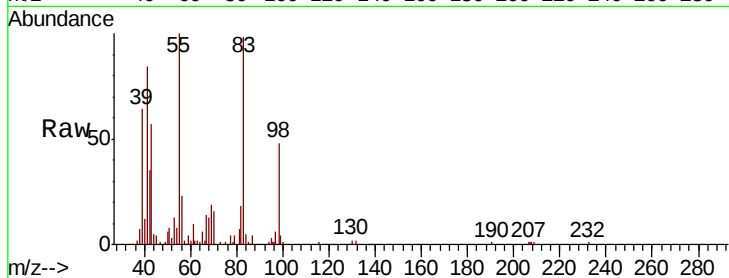
#39
Methvlcvclohexane
Concen: 23.42 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	83	Resp	54844
Ion	Ratio	Lower	Upper
83	100		
55	101.6	73.4	110.2
98	48.8	34.2	51.4

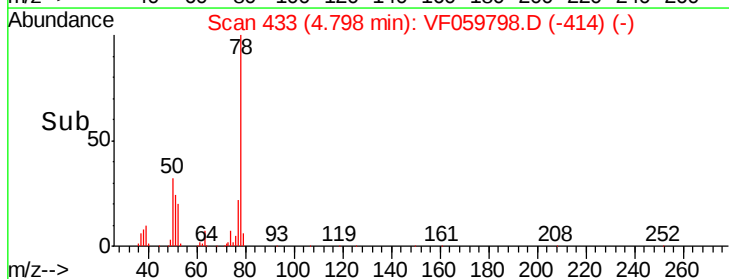
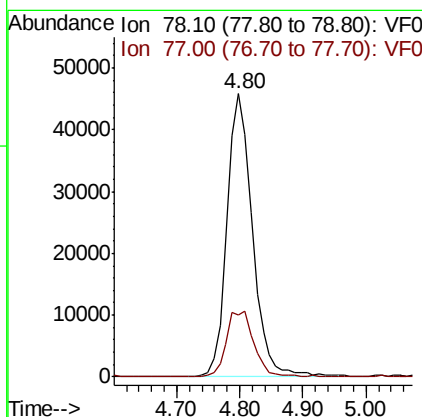
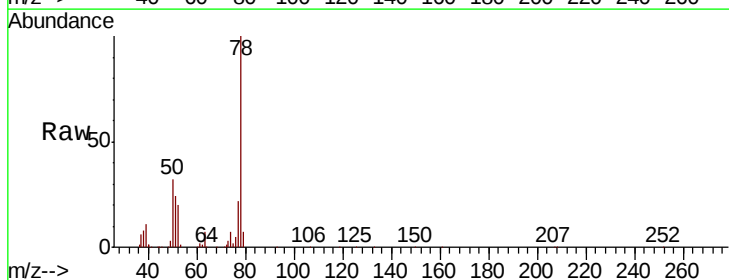
Manual Integrations
APPROVED

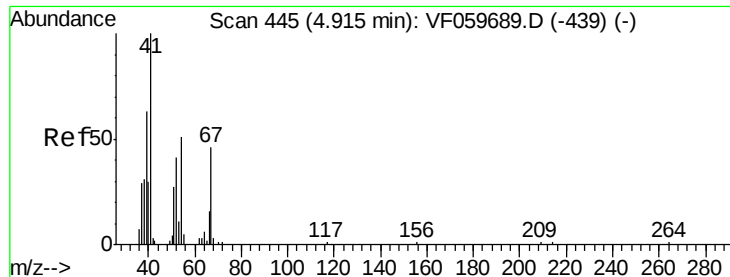
apatel
8/3/2018 2:39:00 PM



#40
Benzene
Concen: 22.99 ug/l
RT: 4.80 min Scan# 433
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	78	Resp	128239
Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.9	28.3





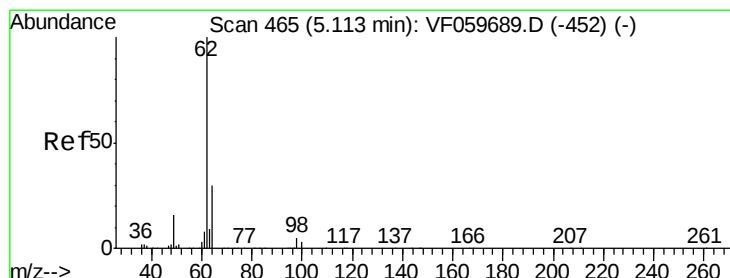
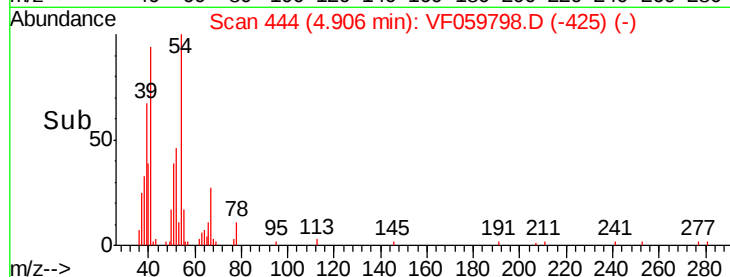
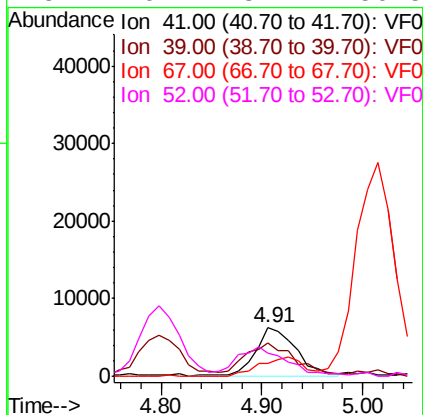
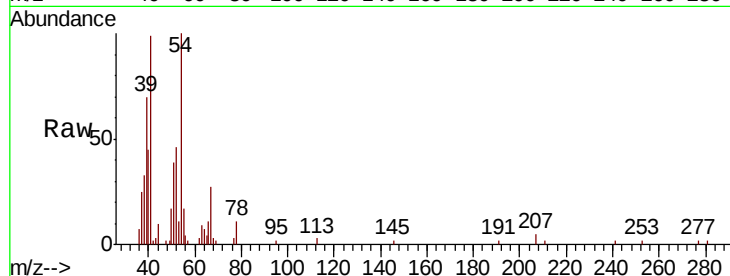
#41
Methacrylonitrile
Concen: 24.12 ug/l
RT: 4.91 min Scan# 444
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	70.5	55.2	82.8
67	27.5	36.2	54.2
52	46.7	37.7	56.5

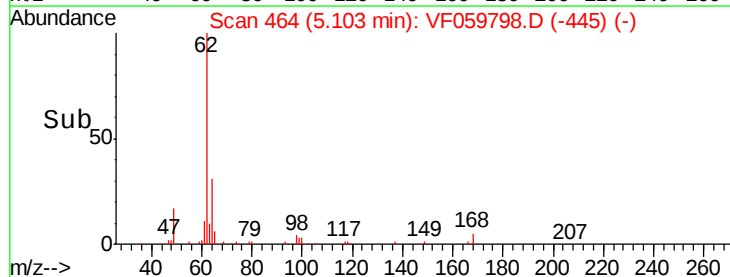
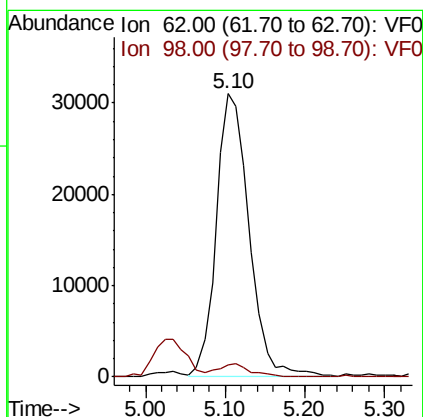
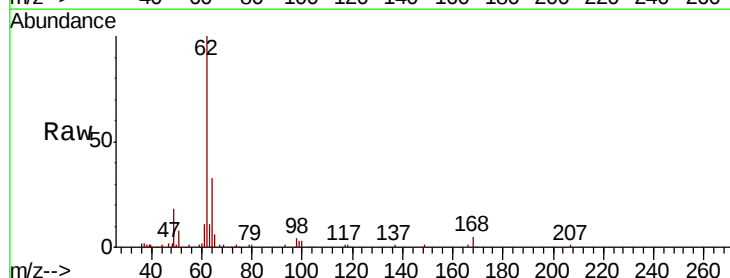
Manual Integrations
APPROVED

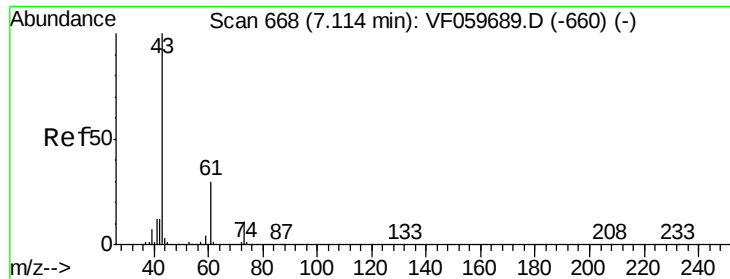
apatel
8/3/2018 2:39:00 PM



#42
1,2-Dichloroethane
Concen: 22.90 ug/l
RT: 5.10 min Scan# 464
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.3	0.0	9.6





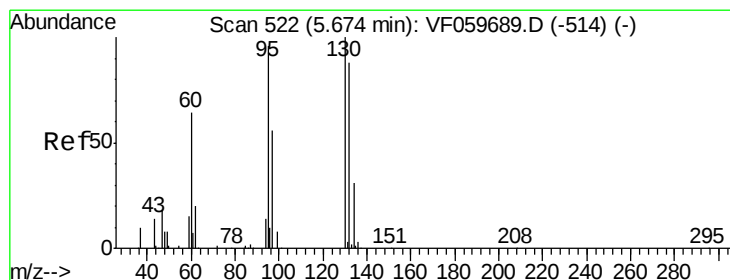
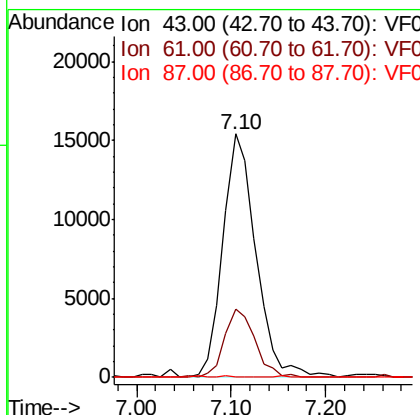
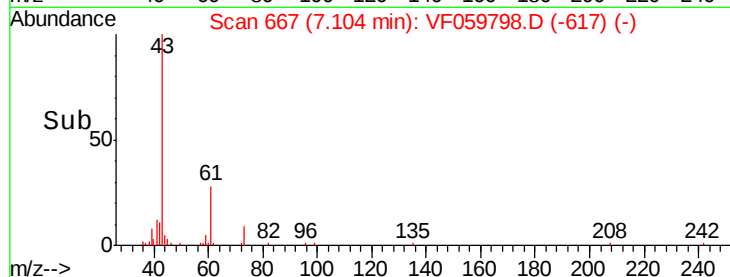
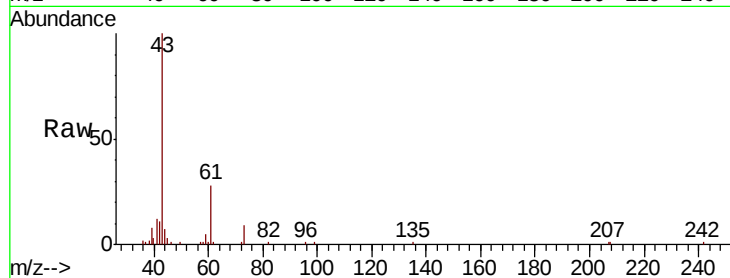
#43
Isopropyl Acetate
Concen: 22.63 ug/l
RT: 7.10 min Scan# 667
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.1	23.8	35.8
87	0.0	0.6	1.0

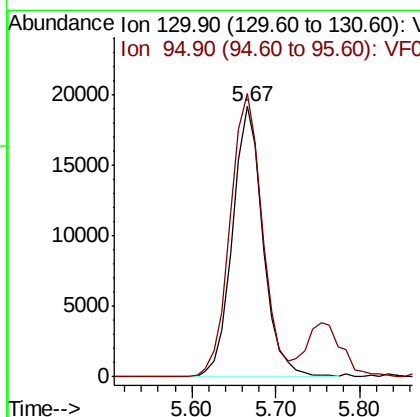
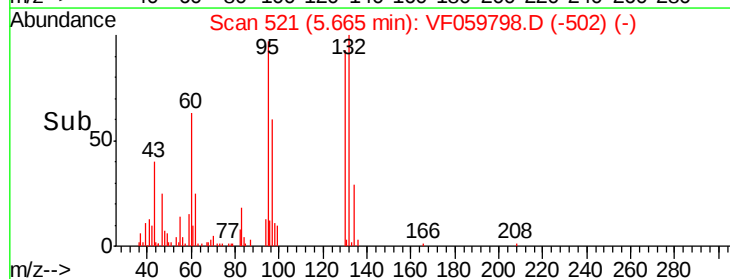
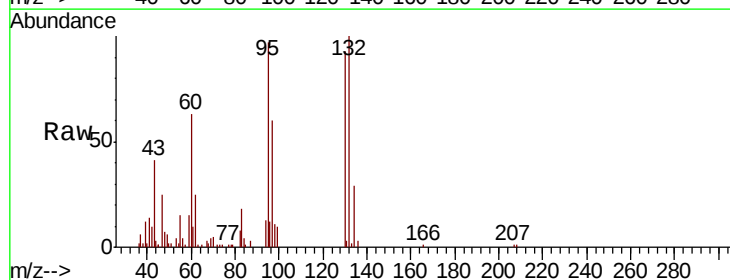
Manual Integrations
APPROVED

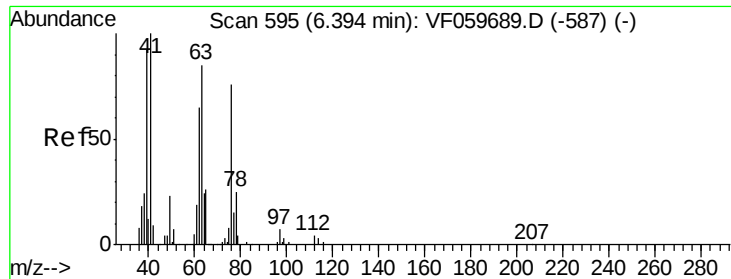
apatel
8/3/2018 2:39:00 PM



#44
Trichloroethene
Concen: 23.00 ug/l
RT: 5.67 min Scan# 521
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	191.0





#45

1,2-Dichloropropane

Concen: 23.51 ug/l

RT: 6.39 min Scan# 595

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 63 Resp: 34624

Ion Ratio Lower Upper

63 100

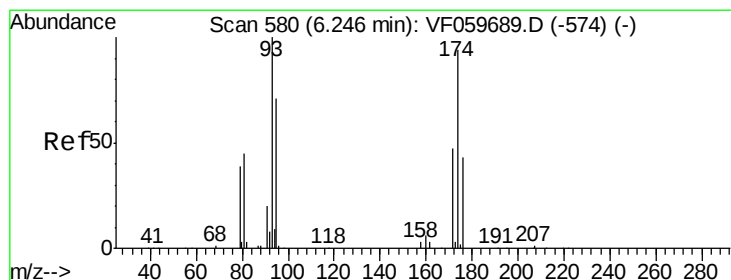
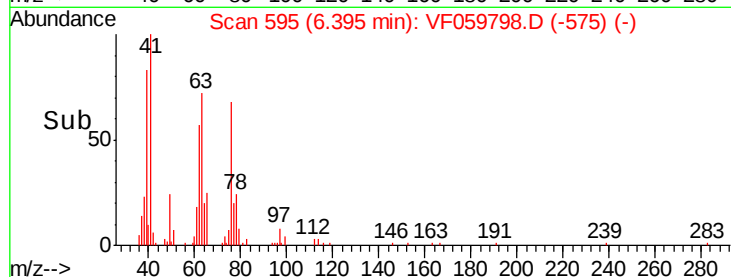
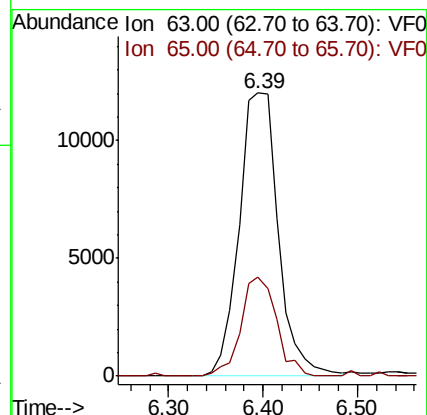
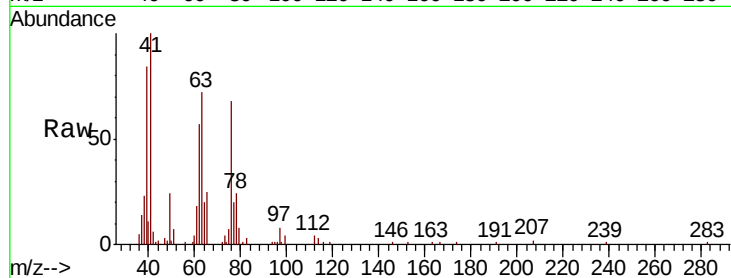
65 34.8 25.2 37.8

Manual Integrations

APPROVED

apatel

8/3/2018 2:39:00 PM



#46

Dibromomethane

Concen: 22.34 ug/l

RT: 6.25 min Scan# 580

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

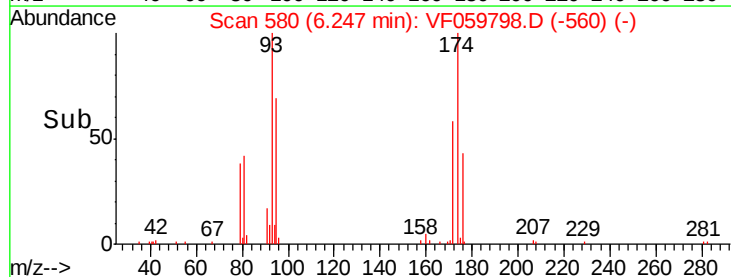
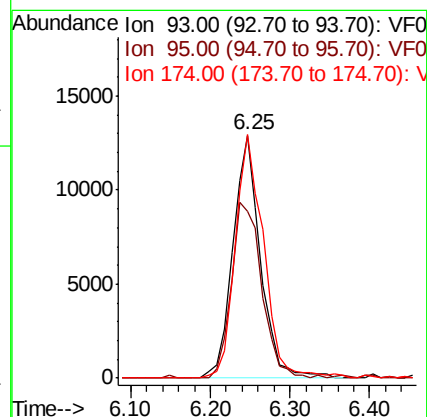
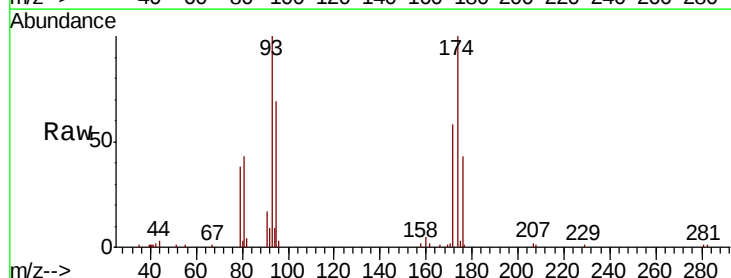
Tgt Ion: 93 Resp: 31247

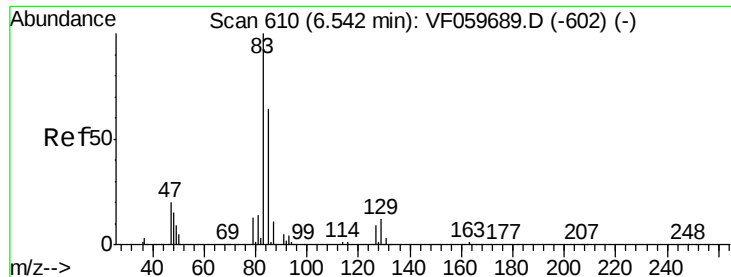
Ion Ratio Lower Upper

93 100

95 68.8 57.1 85.7

174 103.7 74.8 112.2





#47

Bromodichloromethane

Concen: 22.90 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

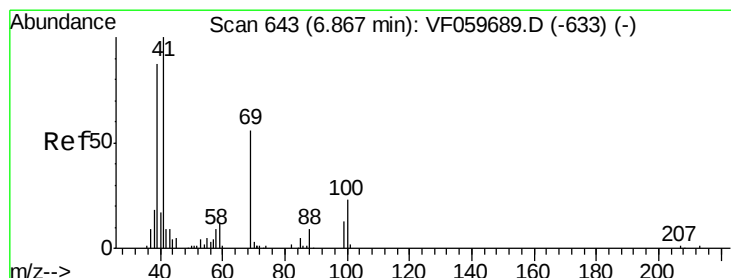
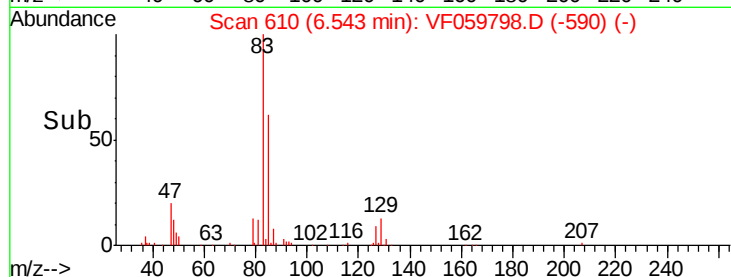
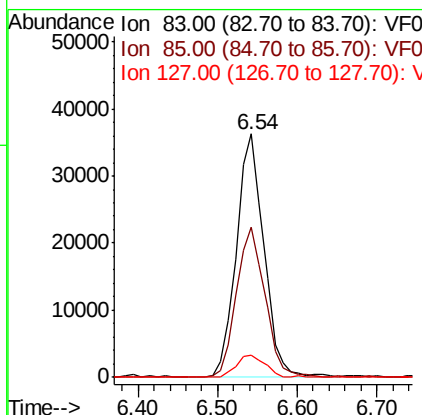
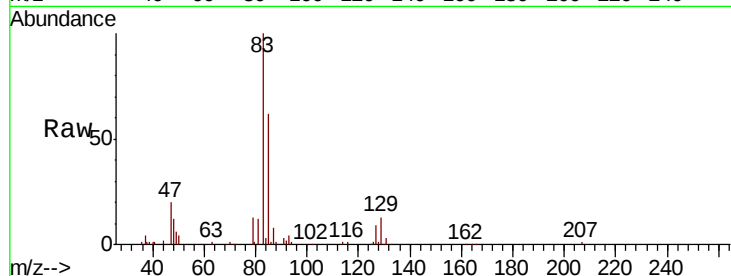
ClientSampleId :

VF0802SBS01

Tot Ion:	83	Resp:	87227
Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.0	76.6
127	9.4	7.3	10.9

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#48

Methyl methacrylate

Concen: 23.45 ug/l

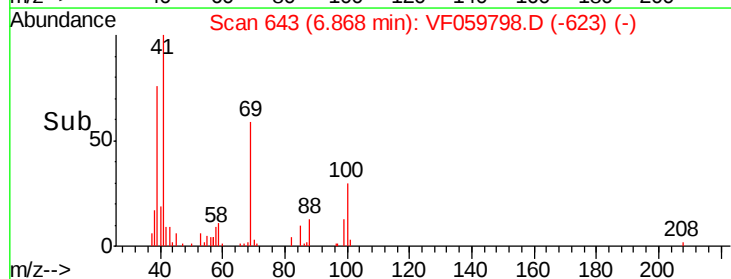
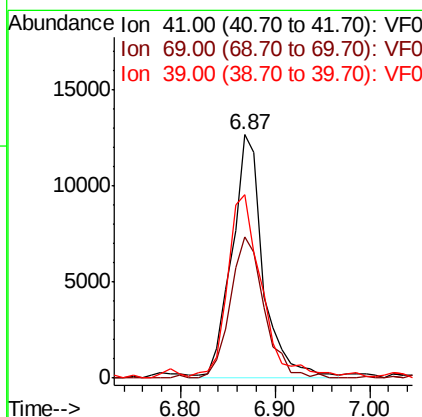
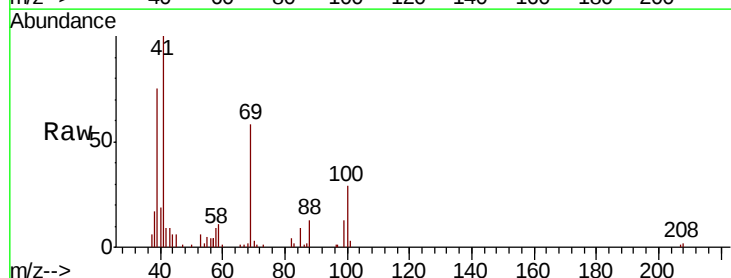
RT: 6.87 min Scan# 643

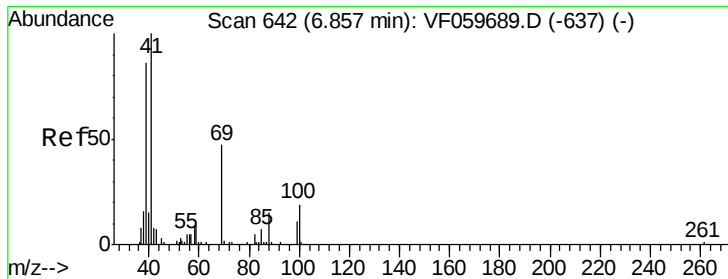
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	41	Resp:	29131
Ion	Ratio	Lower	Upper
41	100		
69	58.2	44.4	66.6
39	75.2	69.4	104.2





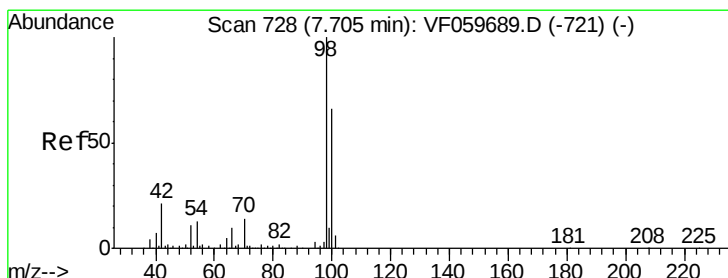
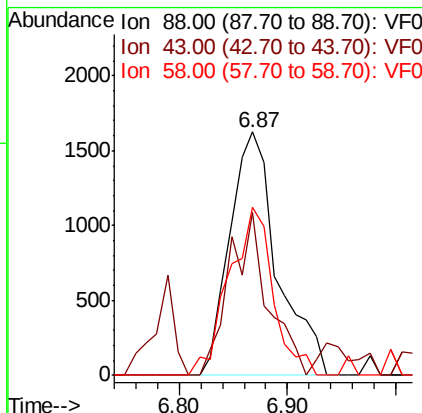
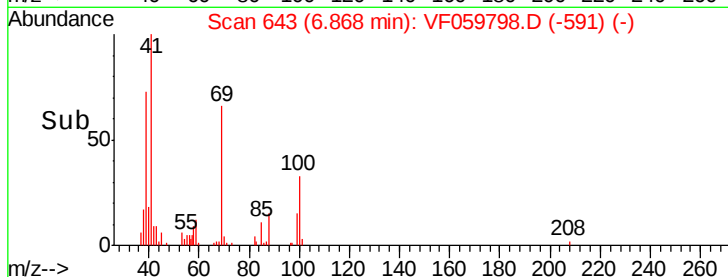
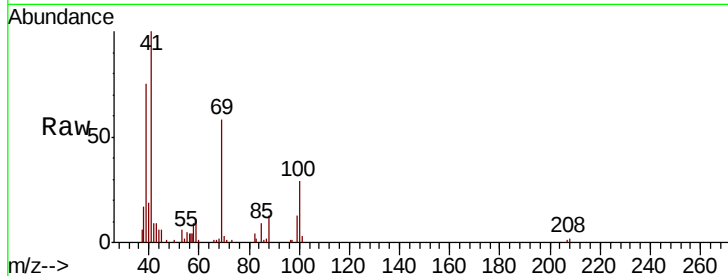
#49
1,4-Dioxane
Concen: 622.16 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	66.7	45.2	67.8
58	69.2	49.0	73.6

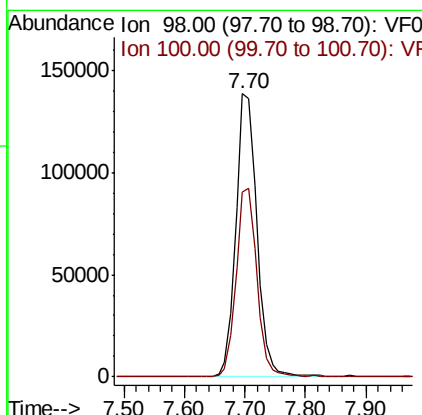
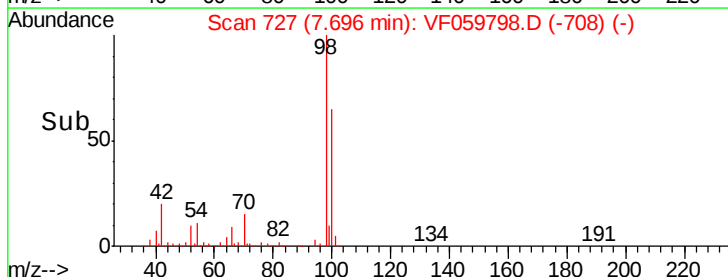
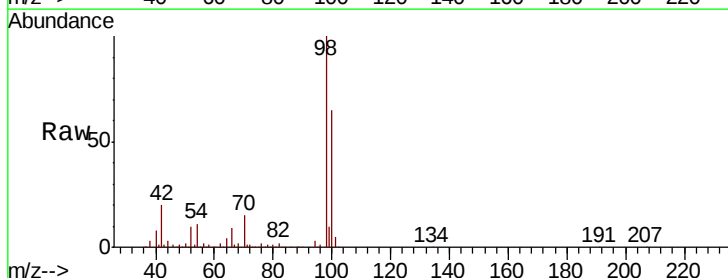
Manual Integrations
APPROVED

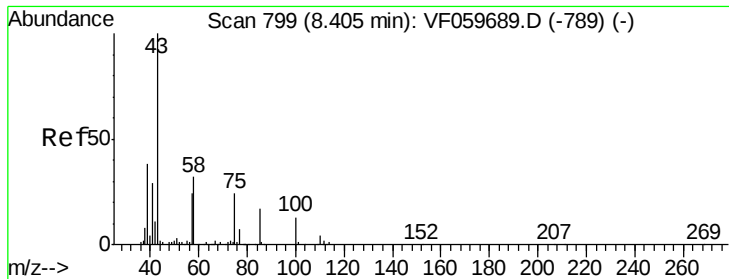
apatel
8/3/2018 2:39:00 PM



#50
Toluene-d8
Concen: 50.30 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.8	79.2





#51

4-Methyl-2-Pentanone

Concen: 123.73 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 43 Resp: 155445

Ion Ratio Lower Upper

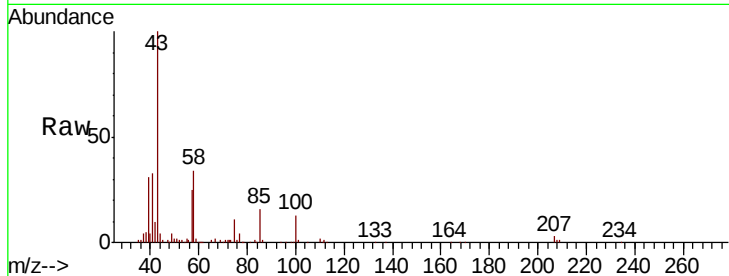
43 100

58 34.4 25.9 38.9

Manual Integrations
APPROVED

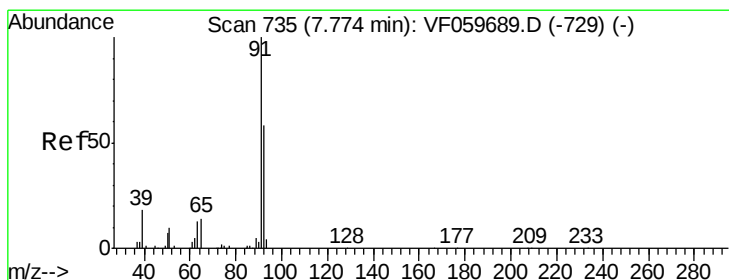
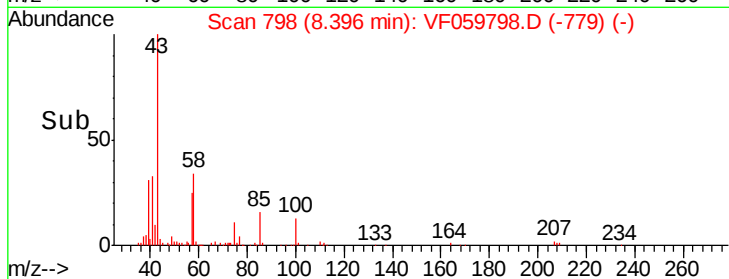
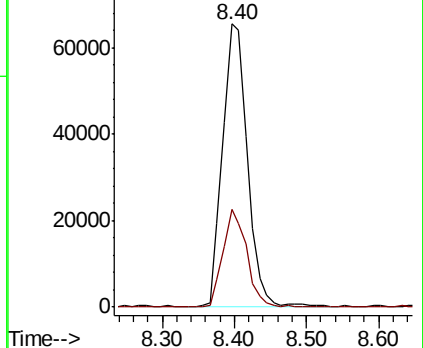
apatel

8/3/2018 2:39:00 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 24.43 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059798.D

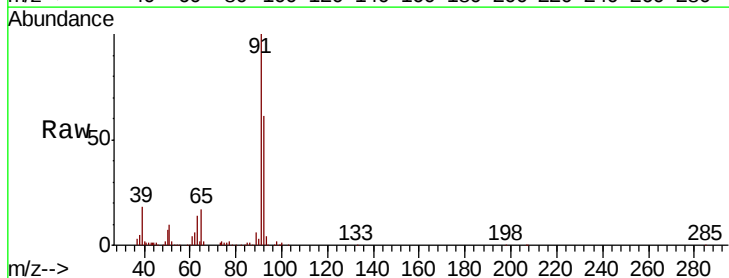
Acq: 2 Aug 2018 14:08

Tgt Ion: 92 Resp: 95722

Ion Ratio Lower Upper

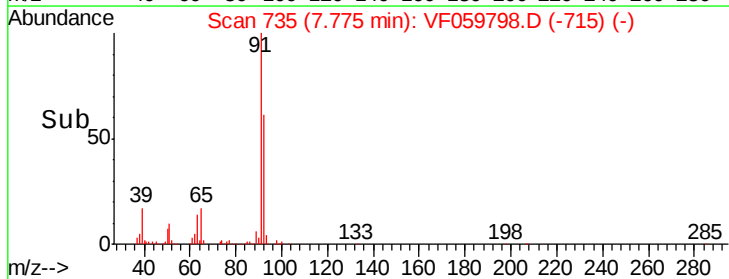
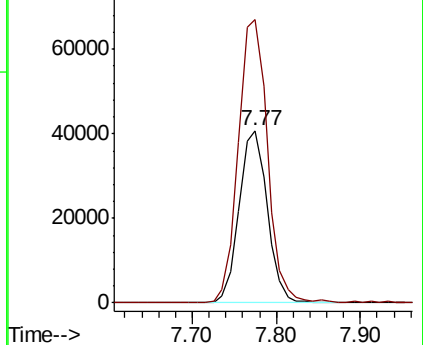
92 100

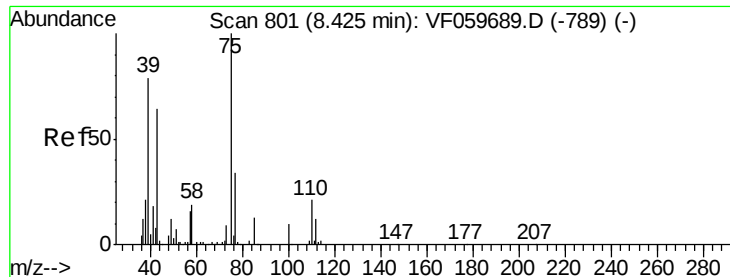
91 164.3 139.0 208.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 23.61 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 75 Resp: 78018

Ion Ratio Lower Upper

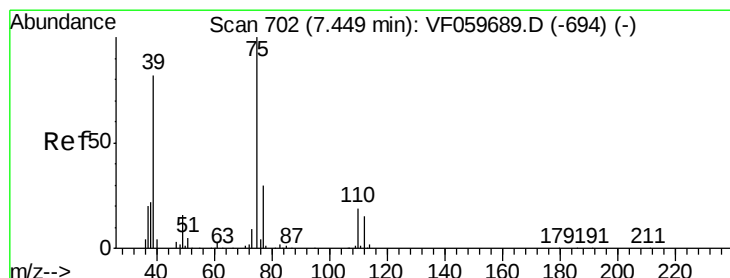
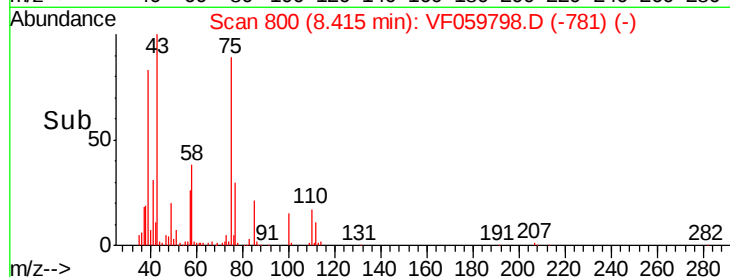
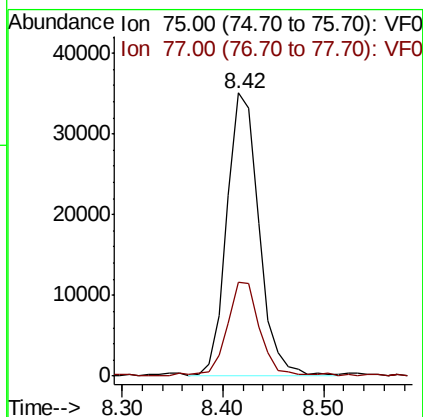
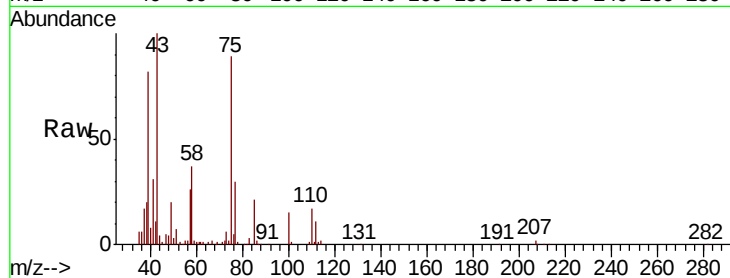
75 100

77 33.4 27.0 40.4

Manual Integrations
APPROVED

apatel

8/3/2018 2:39:00 PM



#54

cis-1,3-Dichloropropene

Concen: 23.61 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

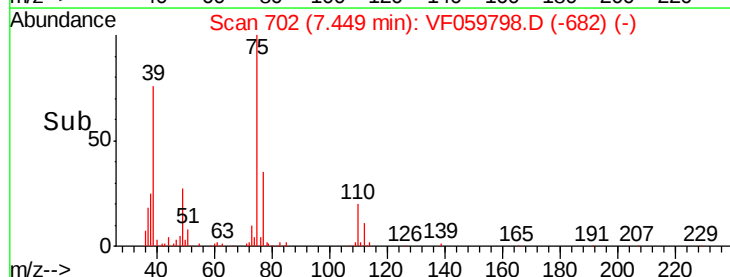
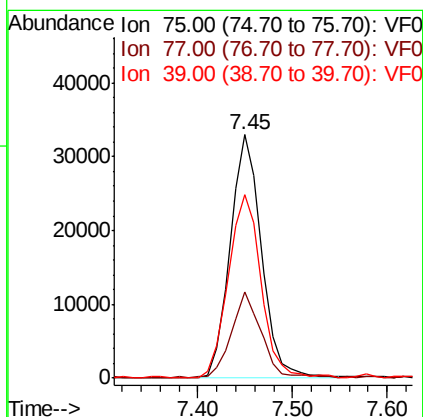
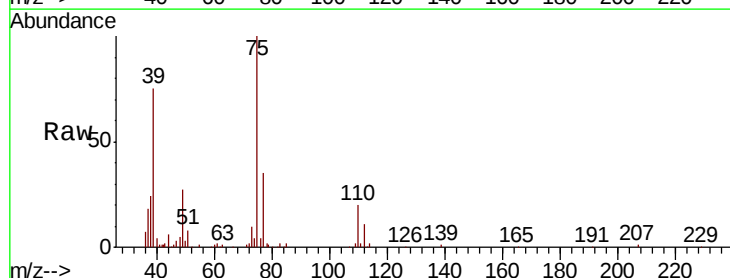
Tgt Ion: 75 Resp: 75586

Ion Ratio Lower Upper

75 100

77 35.2 24.0 36.0

39 75.4 65.4 98.2





#55

1,1,2-Trichloroethane

Concen: 22.74 ug/l

RT: 8.63 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

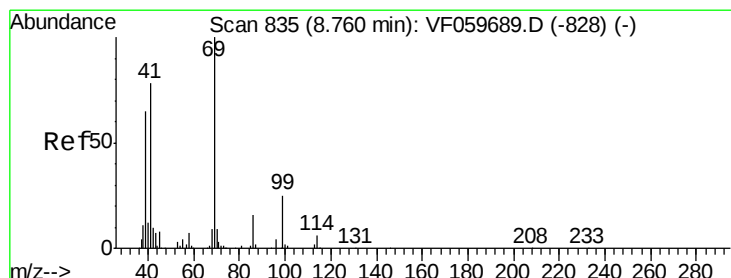
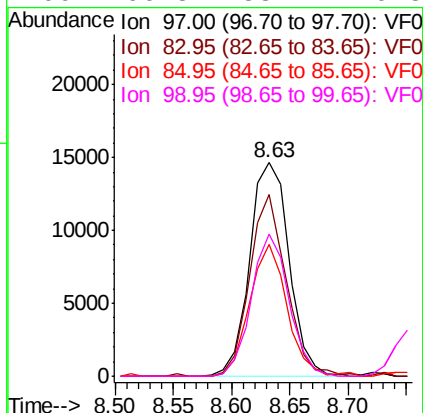
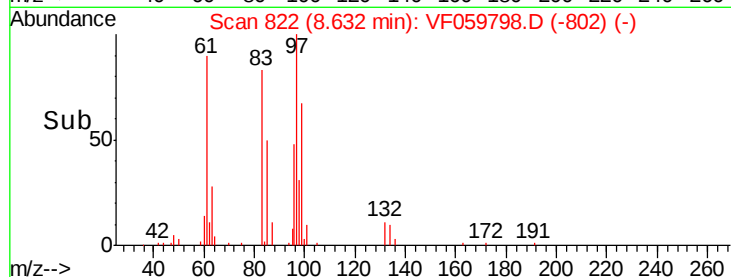
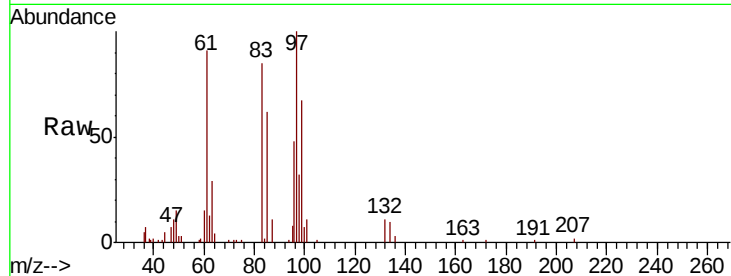
ClientSampleId :

VF0802SBS01

Tot Ion:	97	Resp:	34356
Ion	Ratio	Lower	Upper
97	100		
83	85.4	66.6	100.0
85	61.5	47.4	71.0
99	66.8	53.2	79.8

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#56

Ethyl methacrylate

Concen: 23.17 ug/l

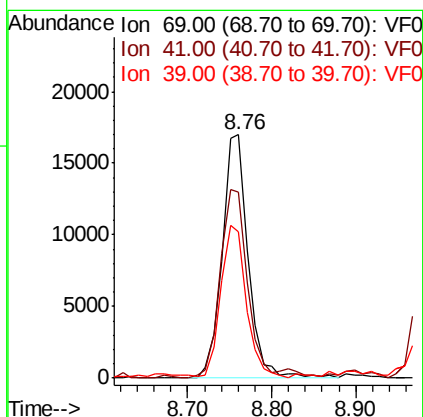
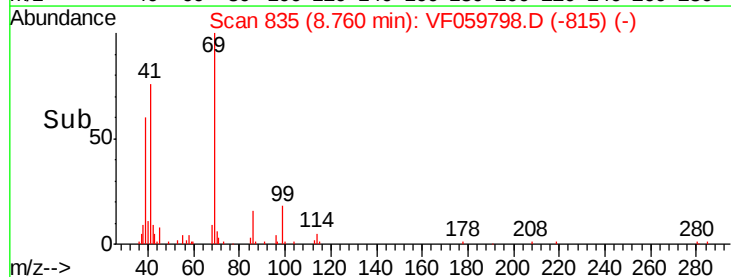
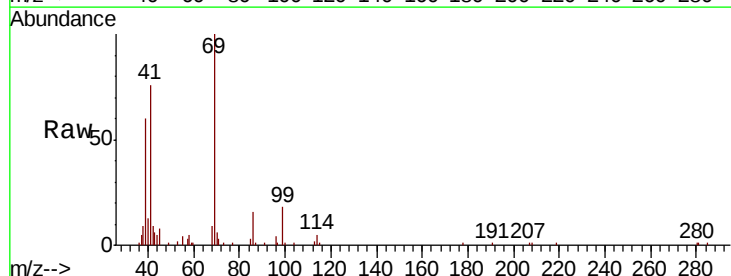
RT: 8.76 min Scan# 835

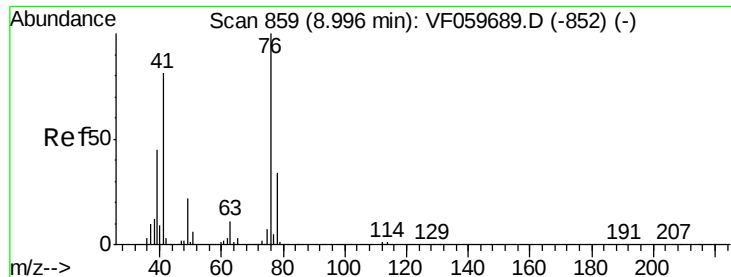
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	69	Resp:	36505
Ion	Ratio	Lower	Upper
69	100		
41	76.4	62.3	93.5
39	60.1	52.4	78.6





#57

1,3-Dichloropropane

Concen: 24.35 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 76 Resp: 63115

Ion Ratio Lower Upper

76 100

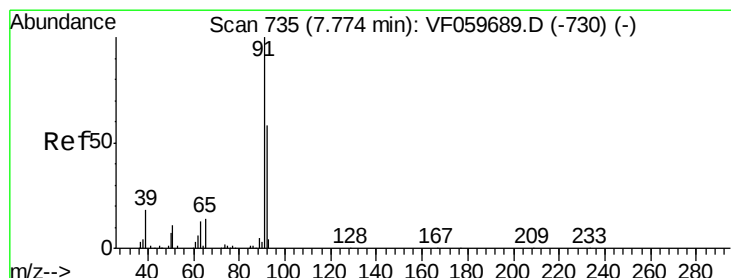
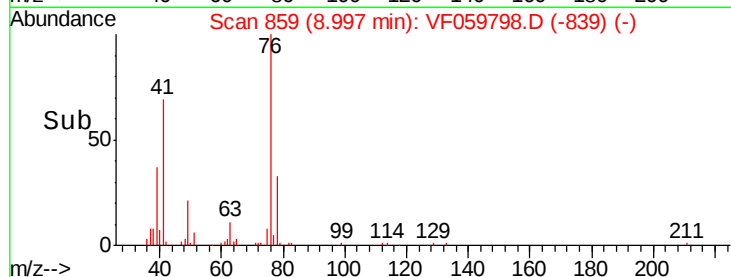
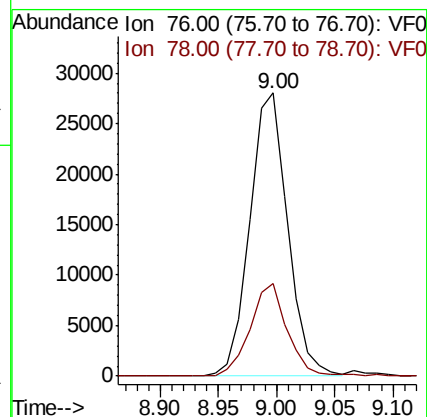
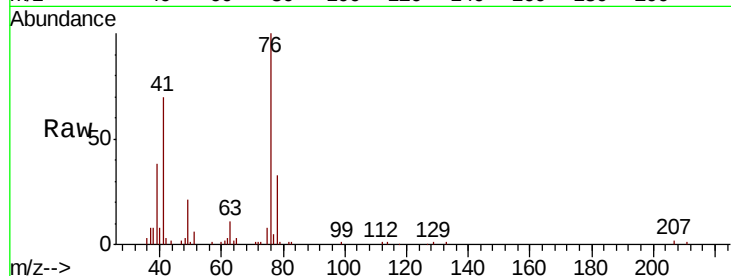
78 32.8 27.2 40.8

Manual Integrations

APPROVED

apatel

8/3/2018 2:39:00 PM



#58

2-Chloroethyl Vinyl ether

Concen: 114.34 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059798.D

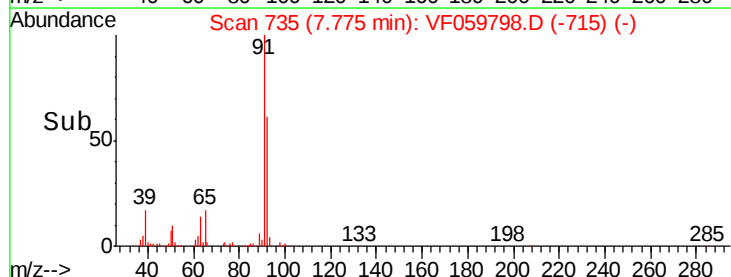
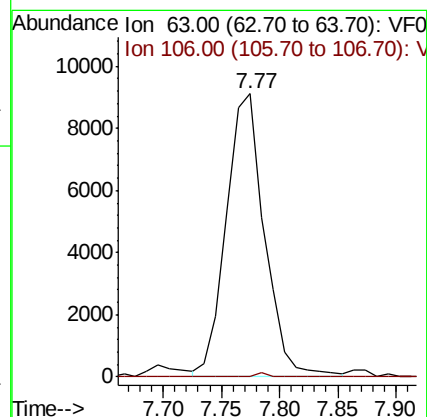
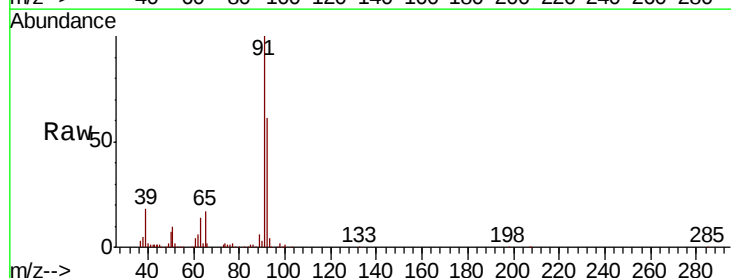
Acq: 2 Aug 2018 14:08

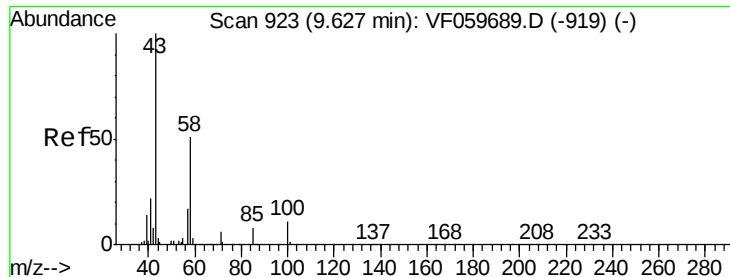
Tgt Ion: 63 Resp: 20797

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





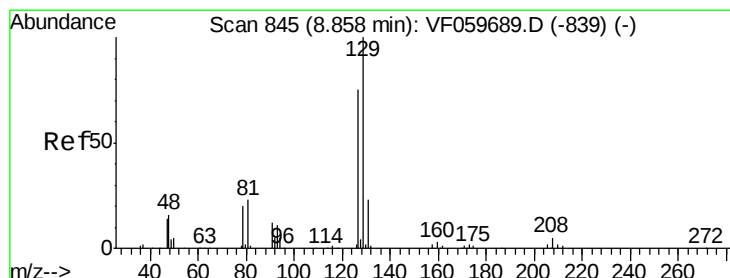
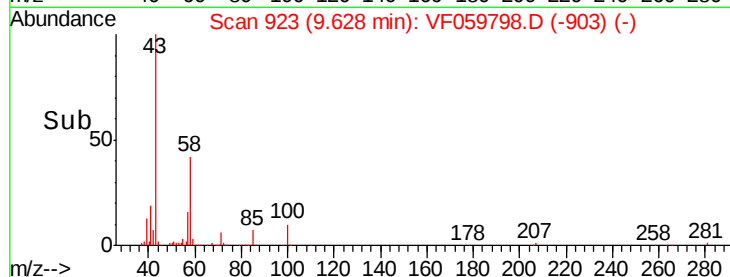
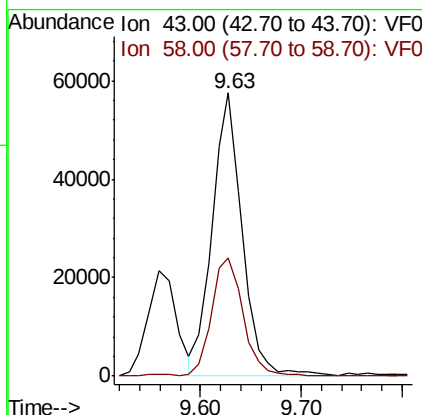
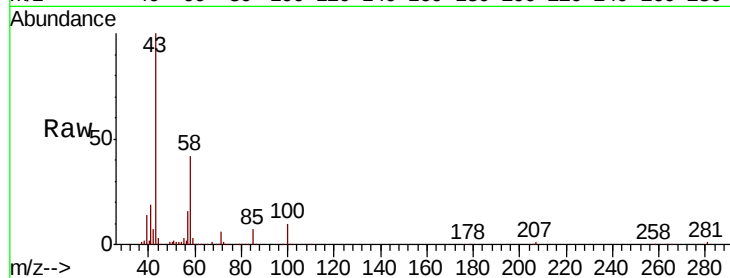
#59
2-Hexanone
Concen: 118.17 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.7	23.3	69.8

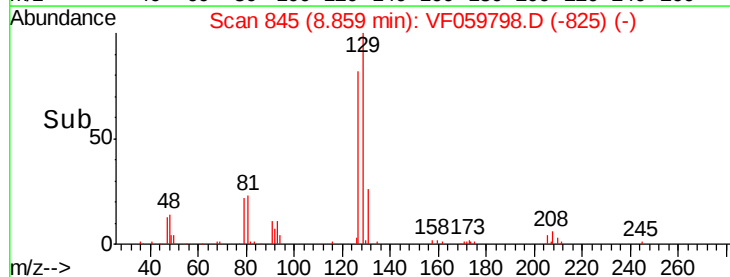
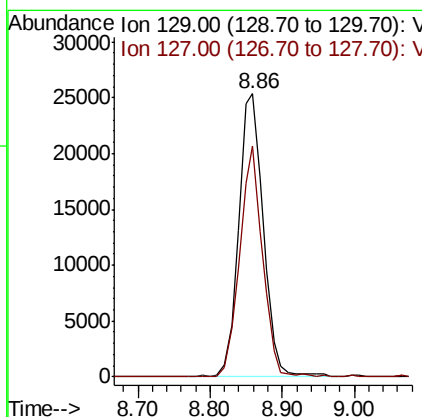
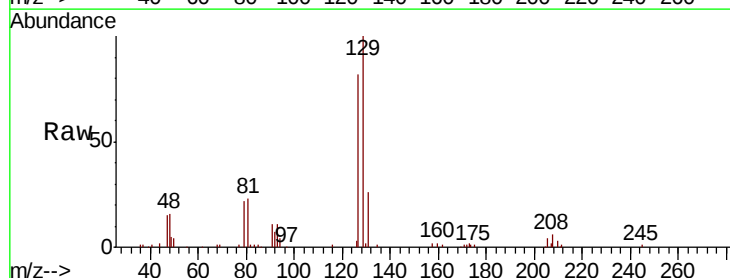
Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#60
Dibromochloromethane
Concen: 22.61 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.6	37.7	113.1





#61

1,2-Dibromoethane

Concen: 24.67 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 107 Resp: 43523

Ion Ratio Lower Upper

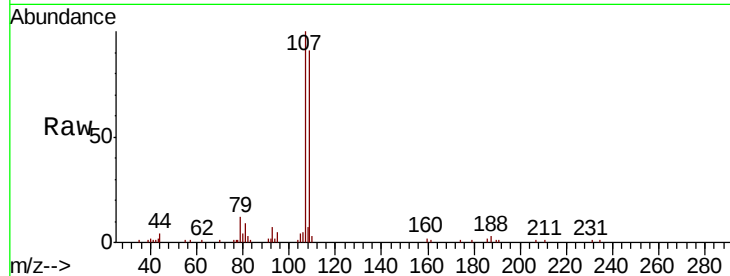
107 100

109 91.0 73.6 110.4

Manual Integrations
APPROVED

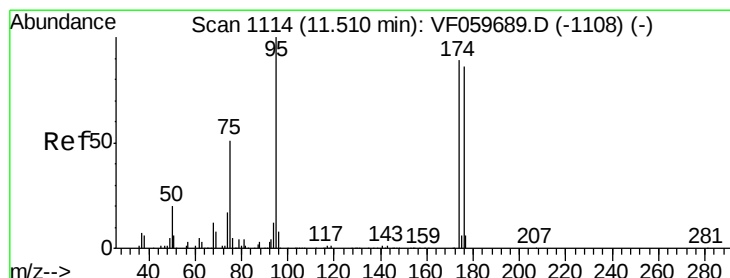
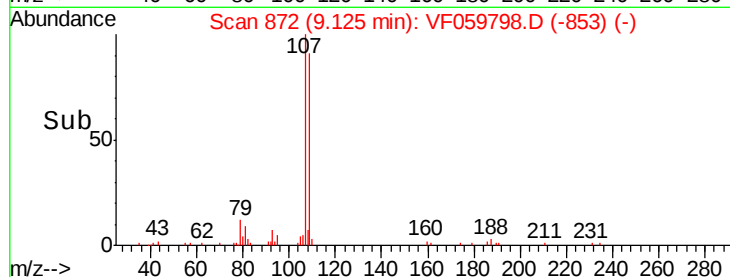
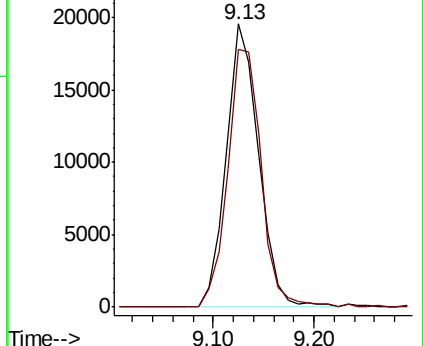
apatel

8/3/2018 2:39:00 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.59 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

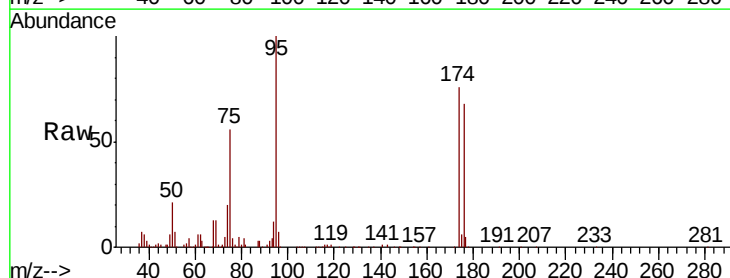
Tgt Ion: 95 Resp: 183658

Ion Ratio Lower Upper

95 100

174 76.0 0.0 178.4

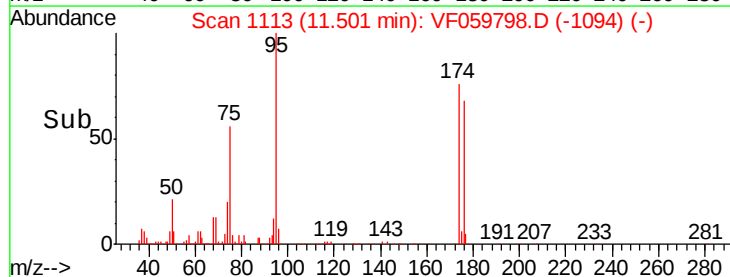
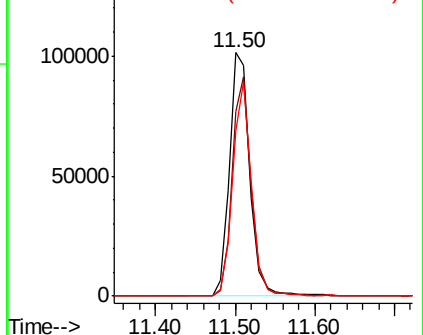
176 68.0 0.0 173.0

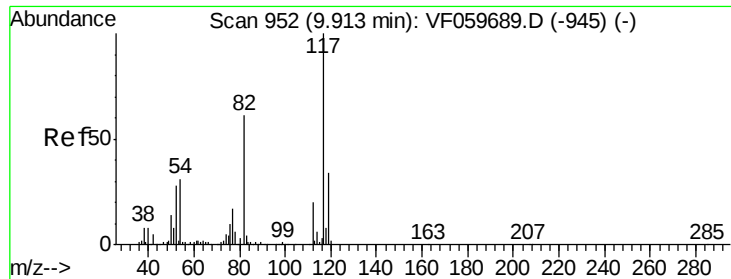


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





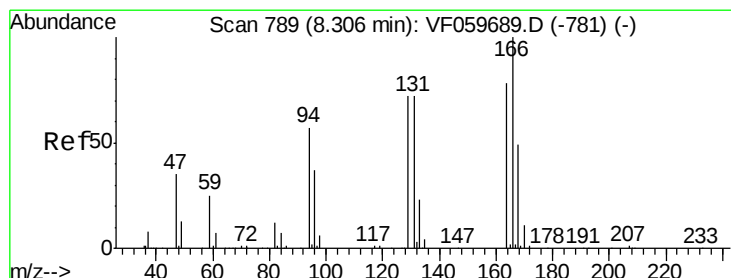
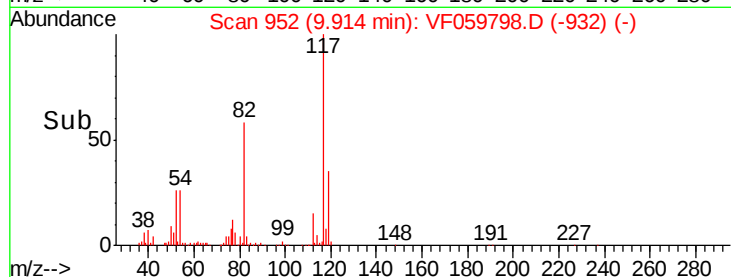
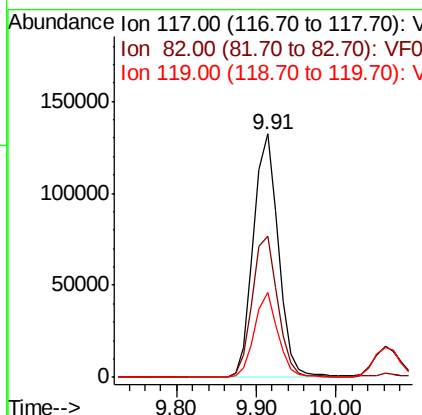
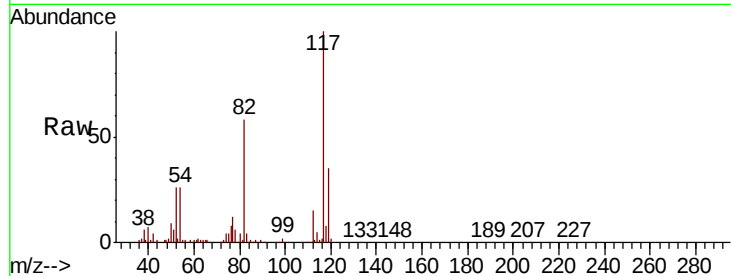
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.9	49.0	73.4
119	34.8	27.3	40.9

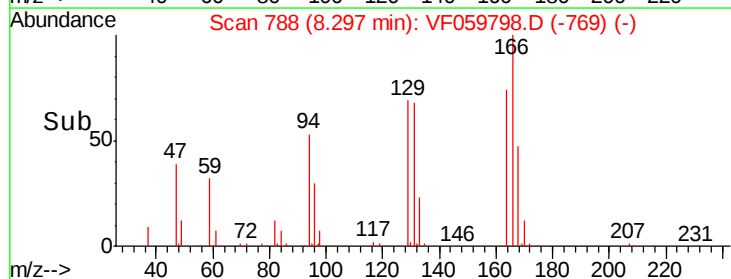
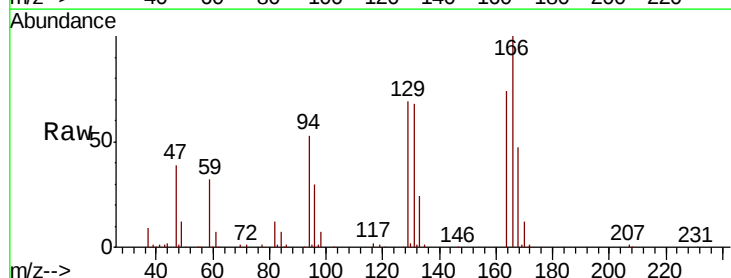
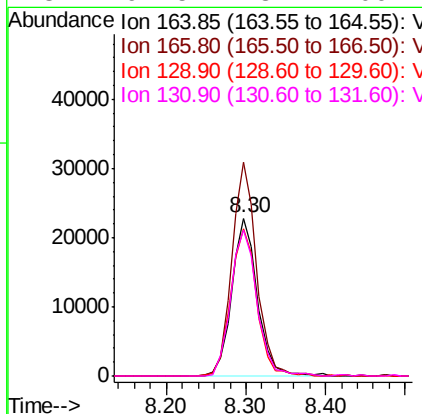
Manual Integrations
APPROVED

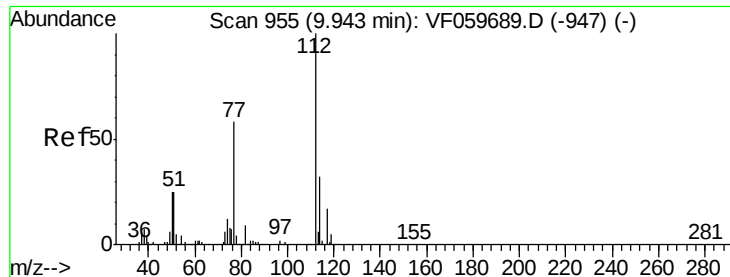
apatel
8/3/2018 2:39:00 PM



#64
Tetrachloroethene
Concen: 24.34 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.6	102.1	153.1
129	93.8	73.8	110.6
131	92.5	73.1	109.7





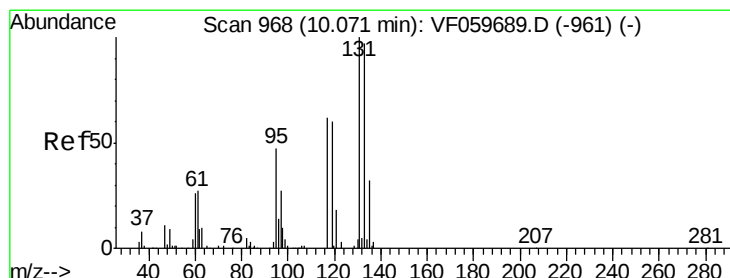
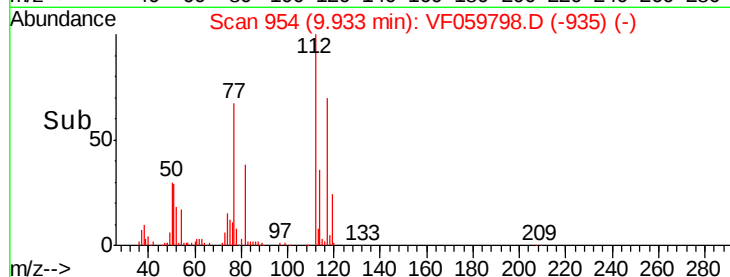
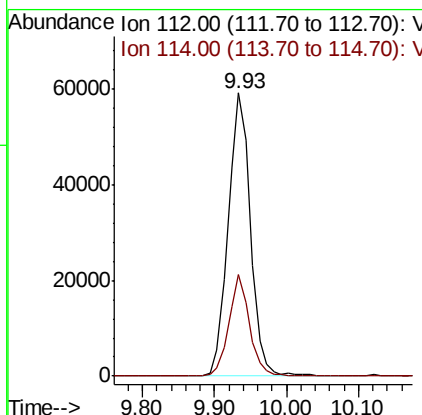
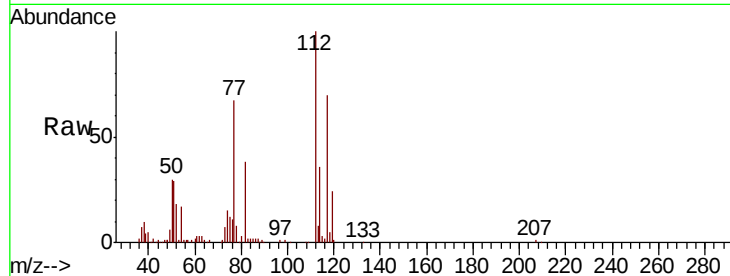
#65
Chlorobenzene
Concen: 22.33 ug/l
RT: 9.93 min Scan# 954
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	127455		
114	35.9	25.6	38.4	

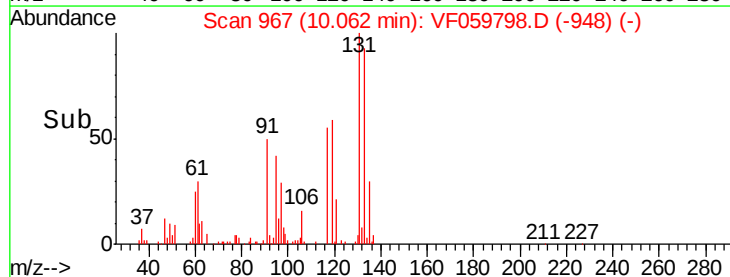
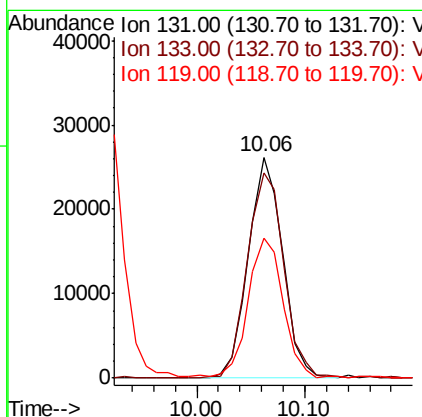
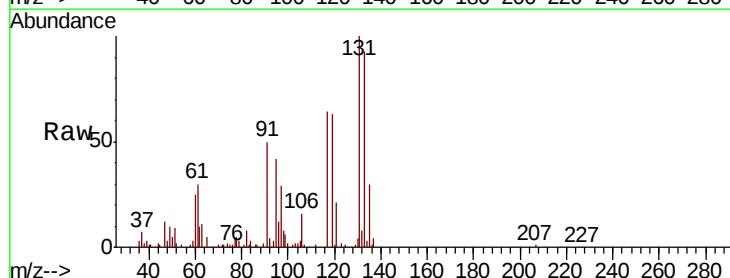
Manual Integrations
APPROVED

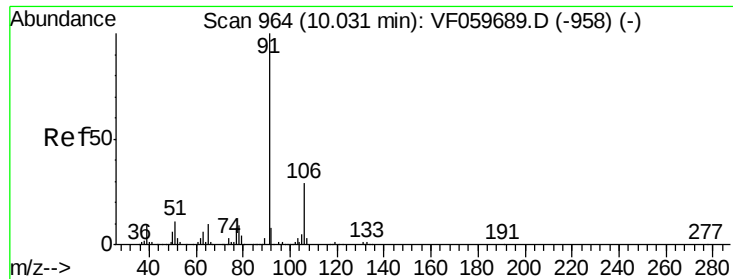
apatel
8/3/2018 2:39:00 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.76 ug/l
RT: 10.06 min Scan# 967
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	57980		
133	92.9	48.5	145.5	
119	63.2	30.3	90.8	





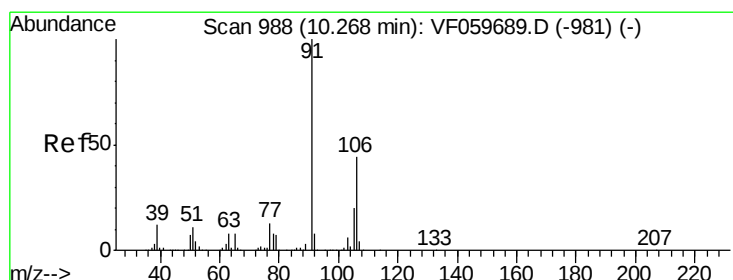
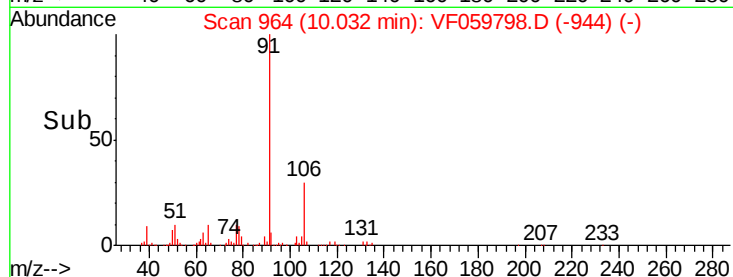
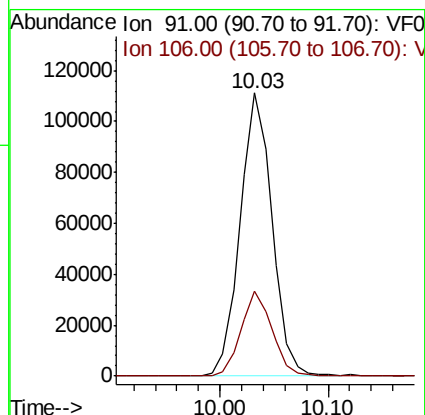
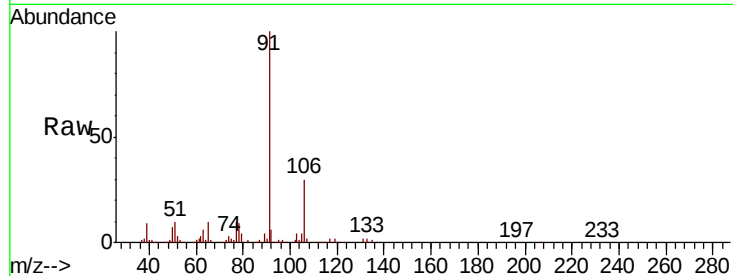
#67
Ethyl Benzene
Concen: 23.18 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion: 91 Resp: 228876
Ion Ratio Lower Upper
91 100
106 30.0 22.9 34.3

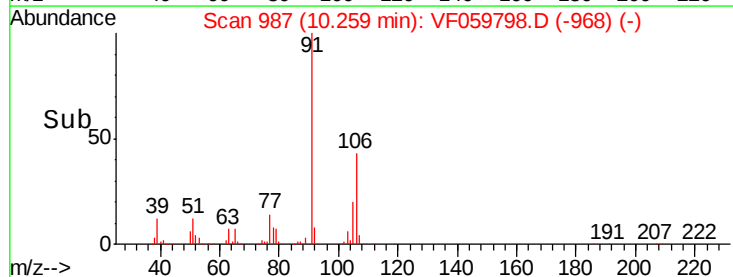
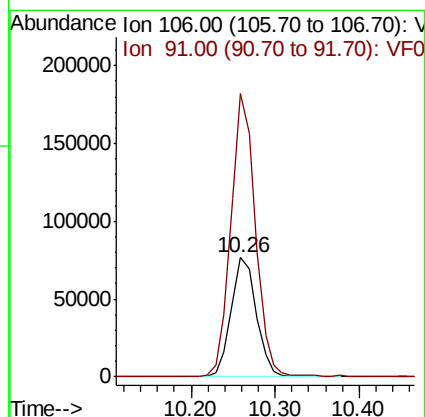
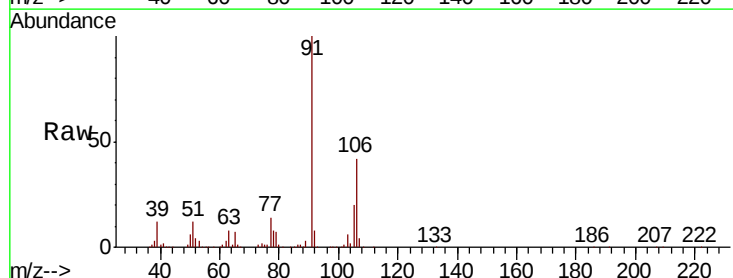
Manual Integrations
APPROVED

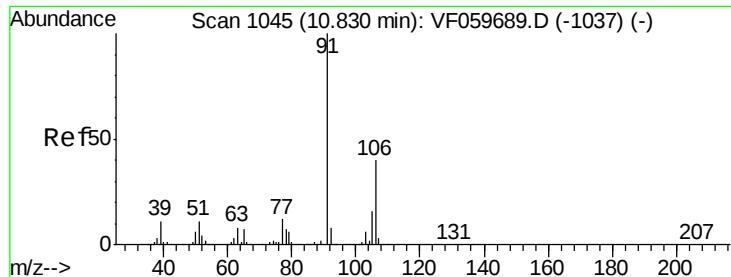
apatel
8/3/2018 2:39:00 PM



#68
m/p-Xylenes
Concen: 48.09 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion: 106 Resp: 160998
Ion Ratio Lower Upper
106 100
91 237.1 181.7 272.5





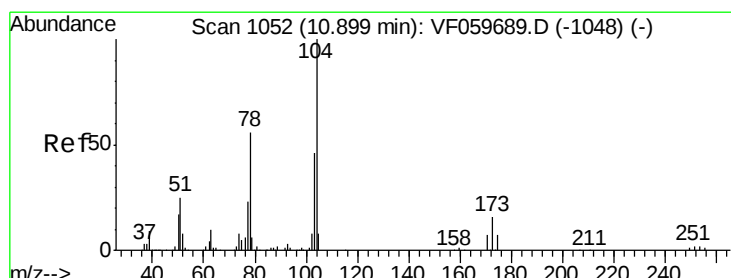
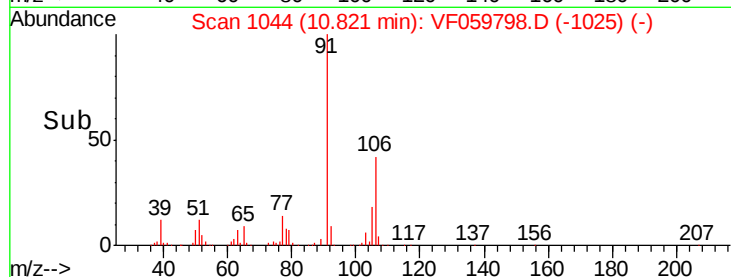
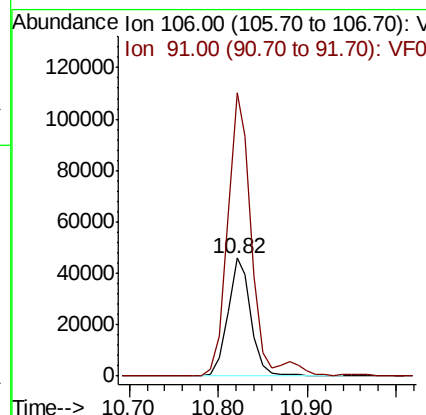
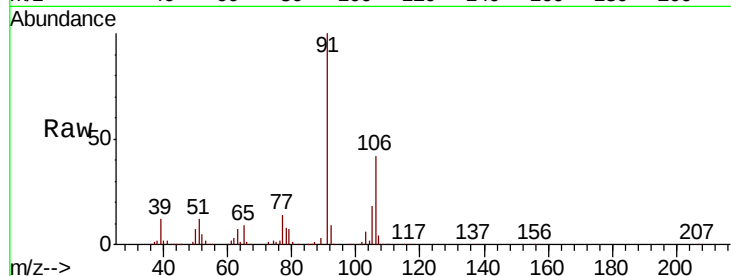
#69
o-Xylene
Concen: 23.08 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion:106 Resp: 83991
Ion Ratio Lower Upper
106 100
91 240.3 124.6 373.7

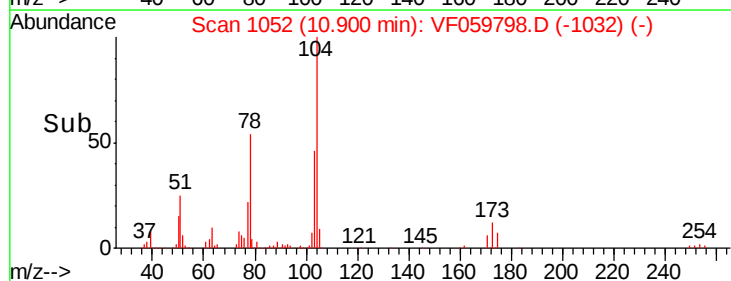
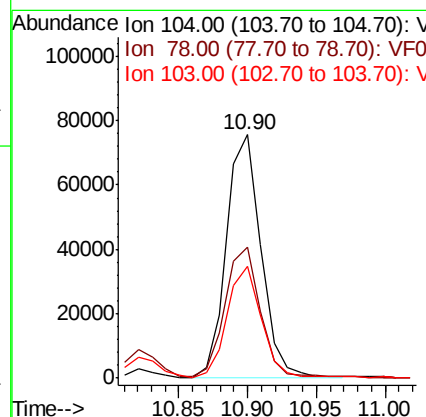
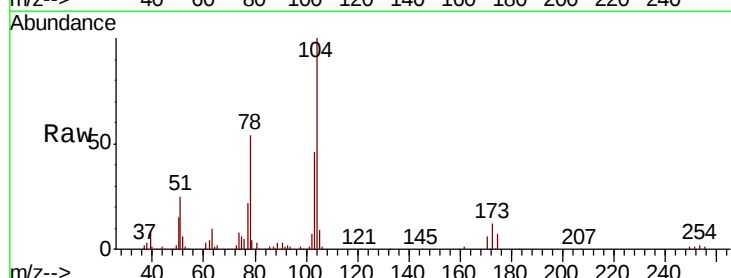
Manual Integrations
APPROVED

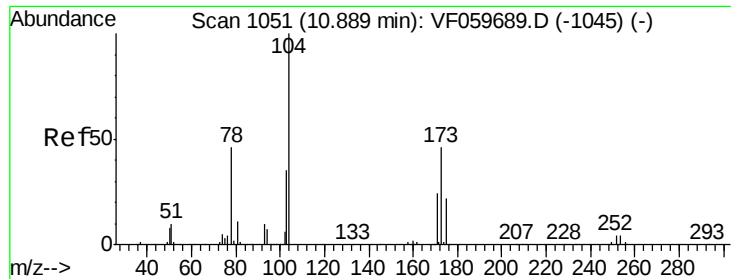
apatel
8/3/2018 2:39:00 PM



#70
Styrene
Concen: 23.86 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion:104 Resp: 131493
Ion Ratio Lower Upper
104 100
78 53.8 45.3 67.9
103 45.8 36.6 54.8





#71

Bromoform

Concen: 23.28 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

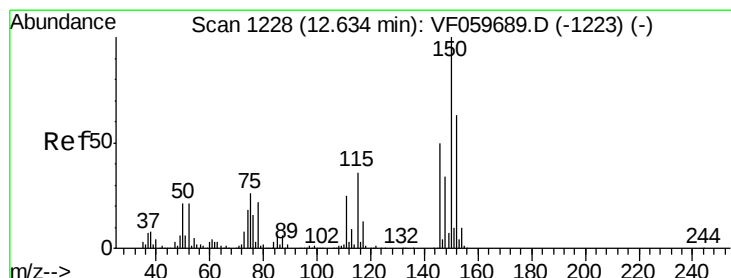
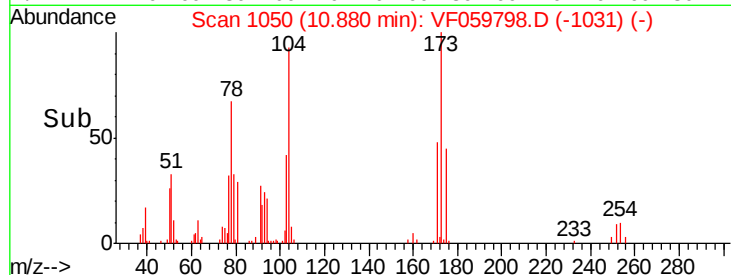
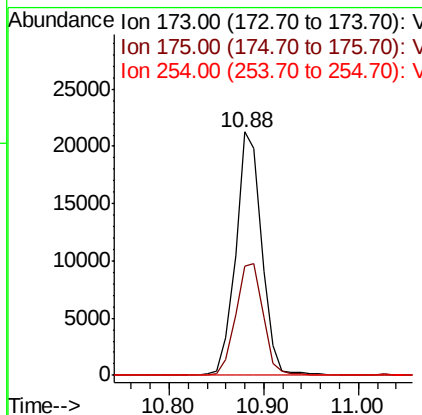
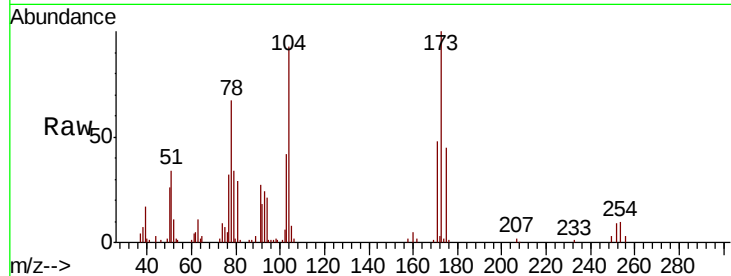
ClientSampleId :

VF0802SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.2	23.4	70.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

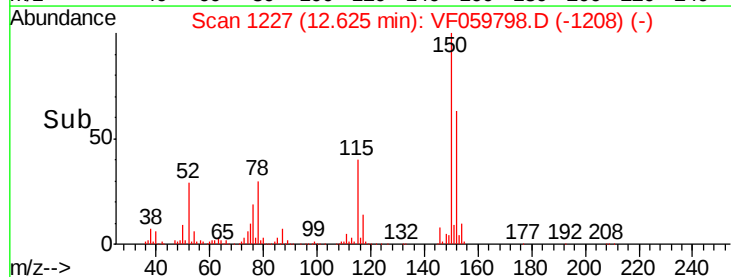
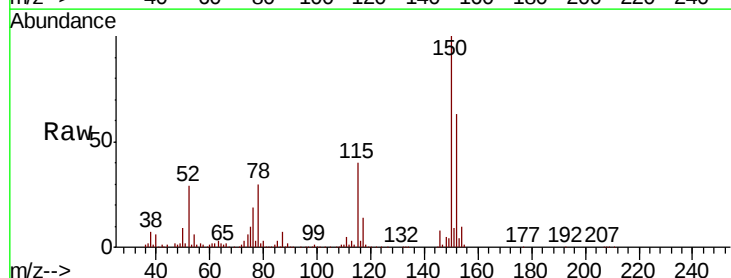
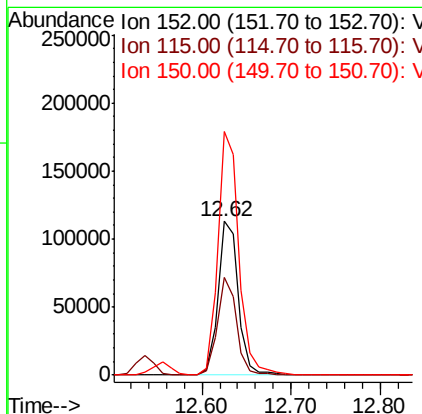
RT: 12.62 min Scan# 1227

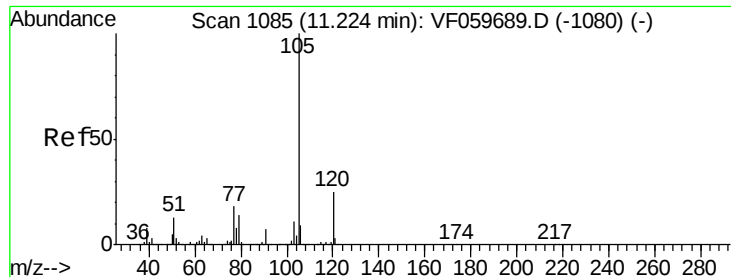
Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.8	28.2	84.6
150	158.6	0.0	316.2





#73

Isopropylbenzene

Concen: 22.90 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion: 105 Resp: 271418

Ion Ratio Lower Upper

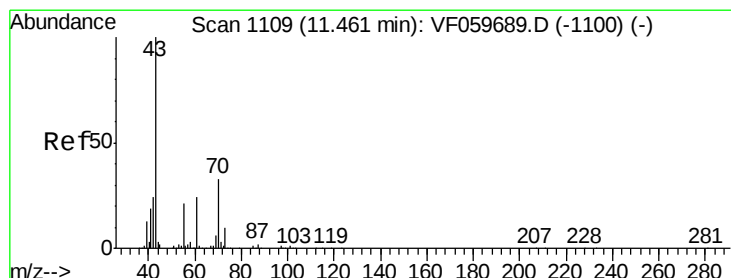
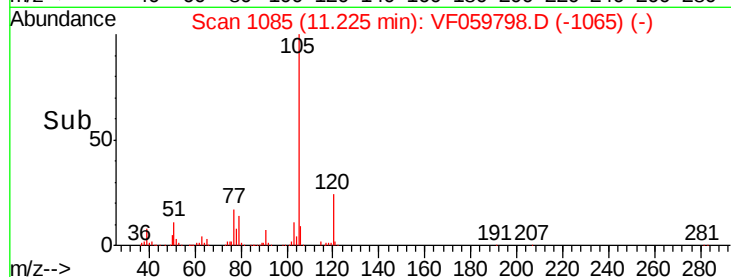
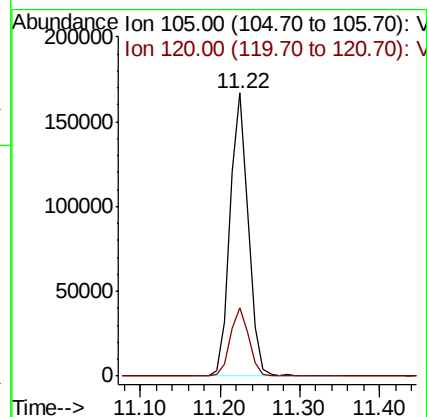
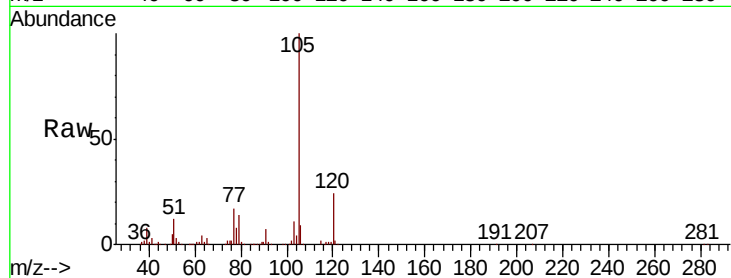
105 100

120 24.3 12.4 37.4

Manual Integrations
APPROVED

apatel

8/3/2018 2:39:00 PM



#74

N-ethyl acetate

Concen: 21.10 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion: 43 Resp: 63085

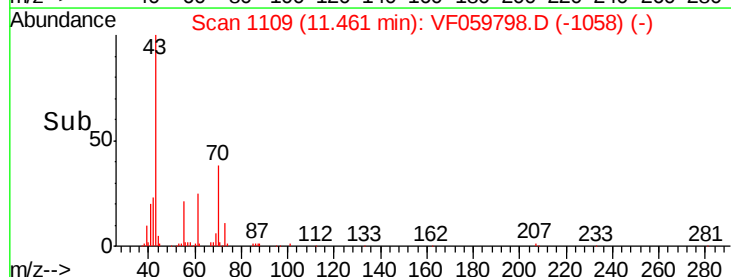
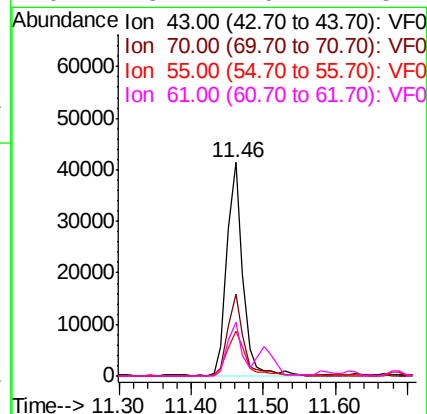
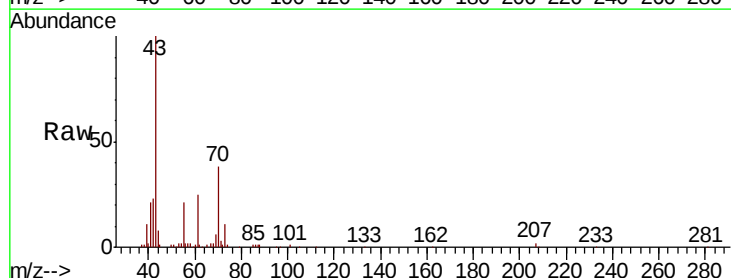
Ion Ratio Lower Upper

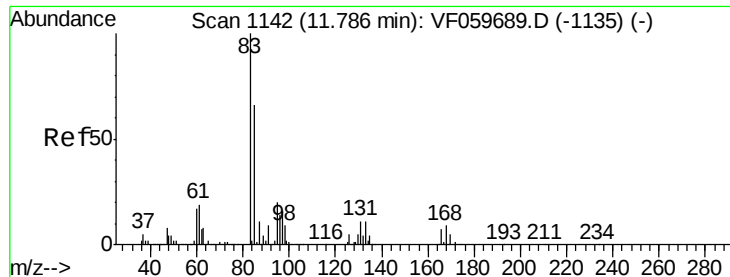
43 100

70 38.4 26.3 39.5

55 21.0 16.6 25.0

61 25.2 19.1 28.7





#75

1,1,2,2-Tetrachloroethane

Concen: 23.09 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

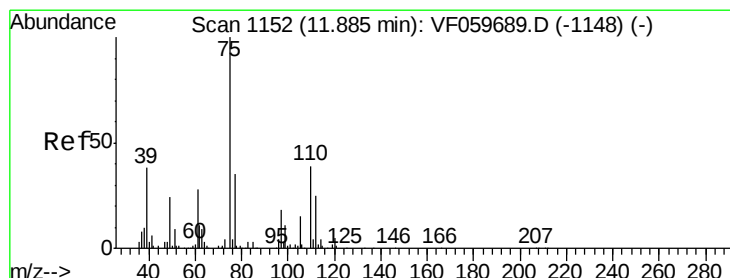
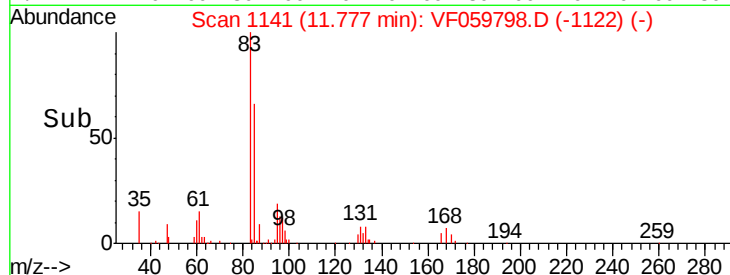
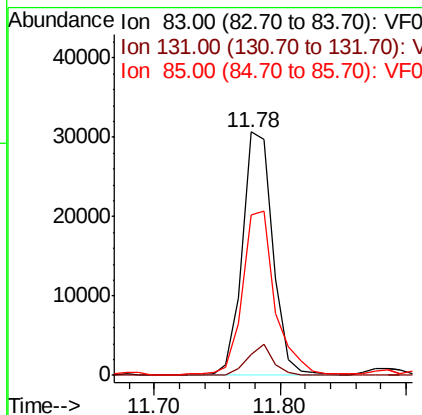
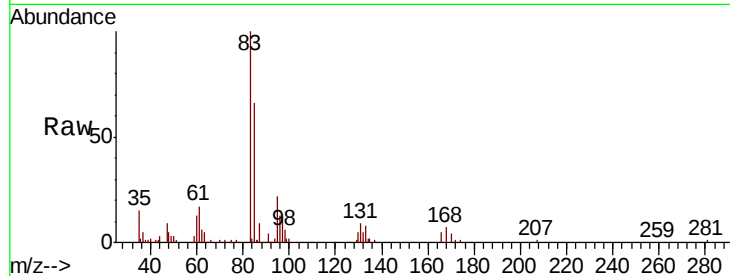
ClientSampleId :

VF0802SBS01

Tot Ion:	83	Resp:	51511
Ion Ratio	Lower	Upper	
83	100		
131	8.6	5.8	17.3
85	66.3	32.8	98.3

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#76

1,2,3-Trichloropropane

Concen: 22.91 ug/l

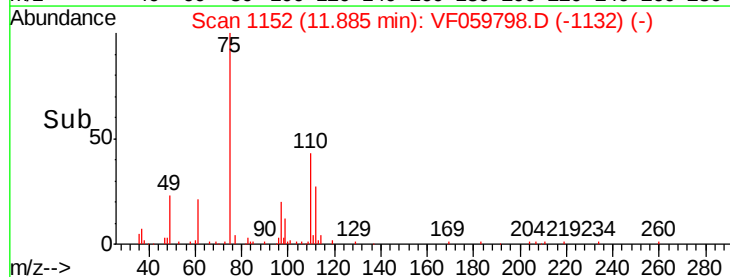
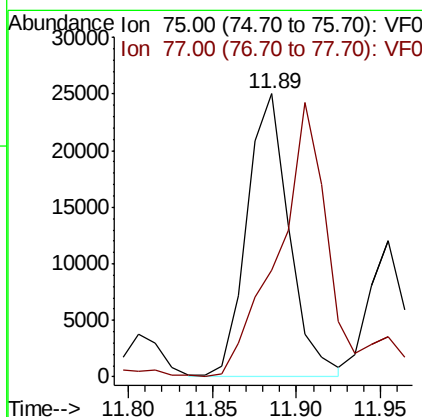
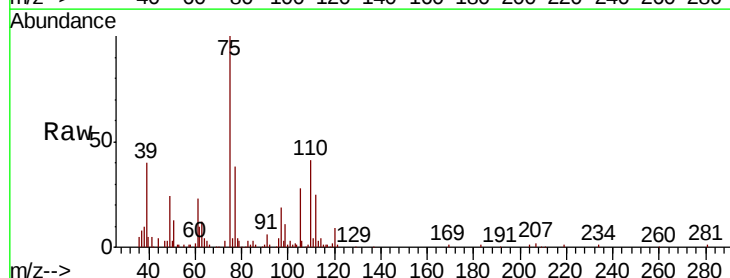
RT: 11.89 min Scan# 1152

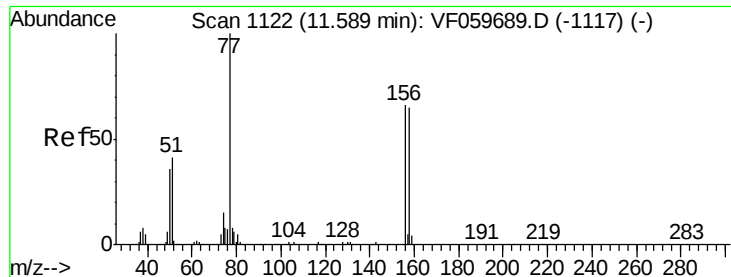
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	75	Resp:	43462
Ion Ratio	Lower	Upper	
75	100		
77	37.9	18.0	54.0





#77

Bromobenzene

Concen: 22.24 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

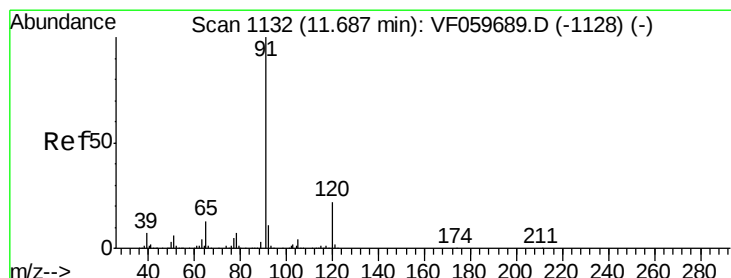
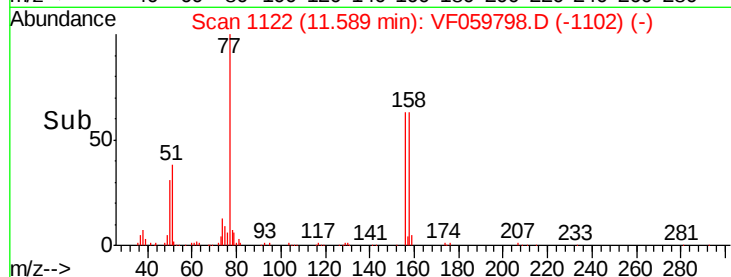
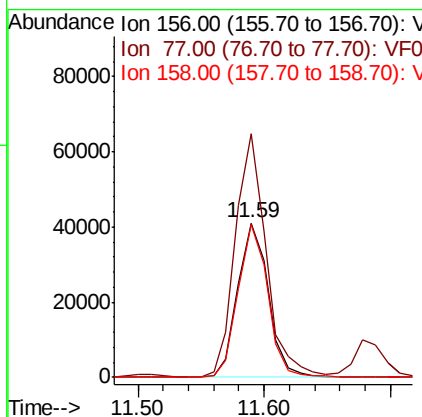
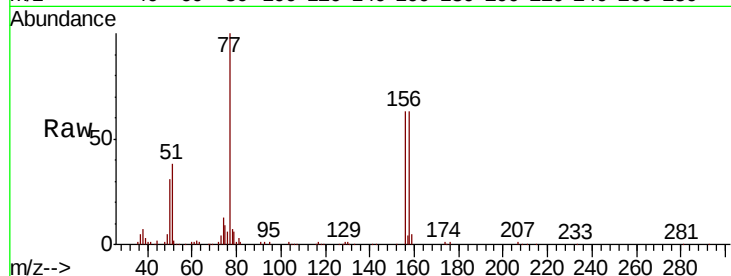
ClientSampleId :

VF0802SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		68833		
77	157.6	75.2	225.6		
158	99.3	49.1	147.3		

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#78

n-propylbenzene

Concen: 24.16 ug/l

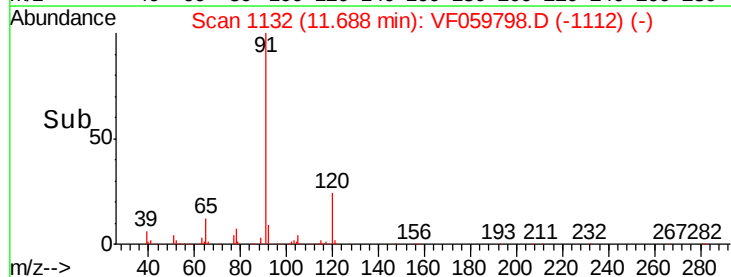
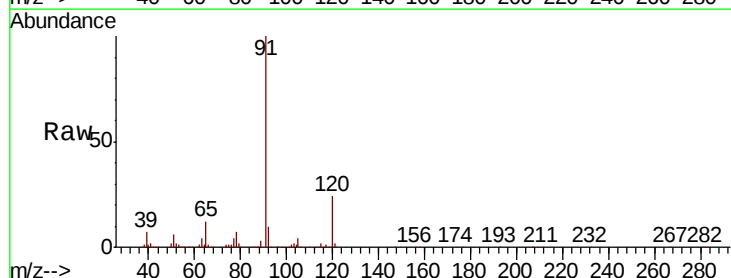
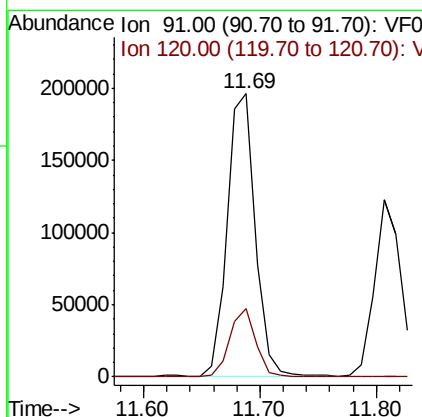
RT: 11.69 min Scan# 1132

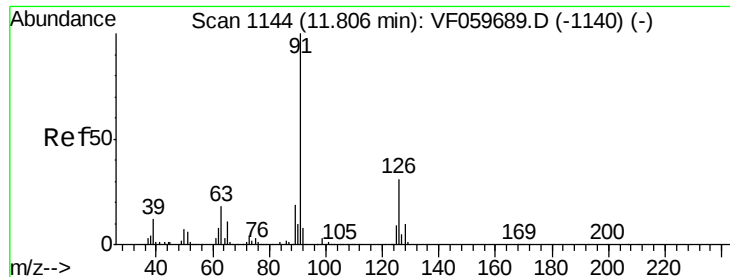
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		324910		
120	24.0	11.0	33.0		





#79

2-Chlorotoluene

Concen: 22.80 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampled :

VF0802SBS01

Tot Ion: 91 Resp: 192586

Ion Ratio Lower Upper

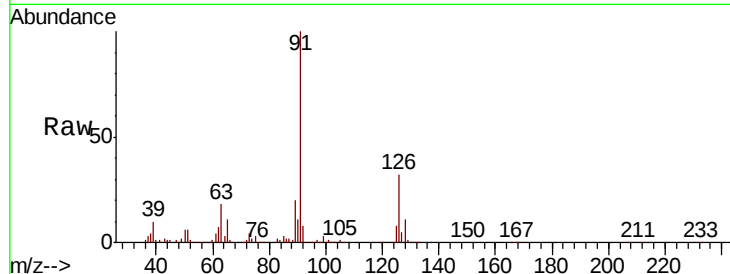
91 100

126 32.2 15.4 46.2

Manual Integrations
APPROVED

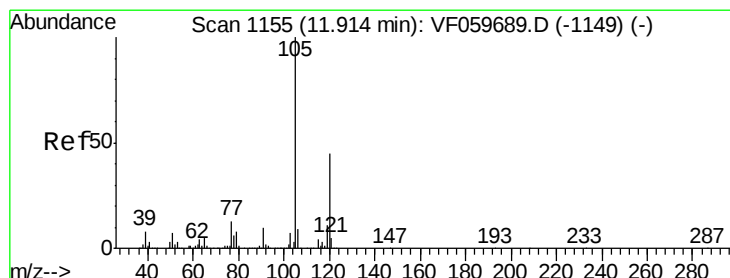
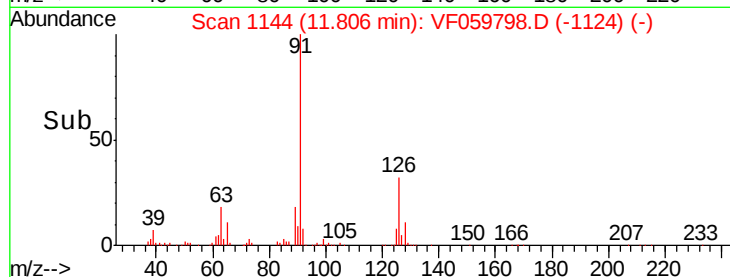
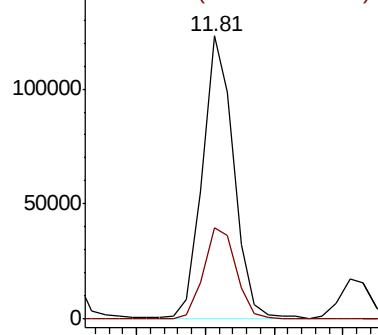
apatel

8/3/2018 2:39:00 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 23.26 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VF059798.D

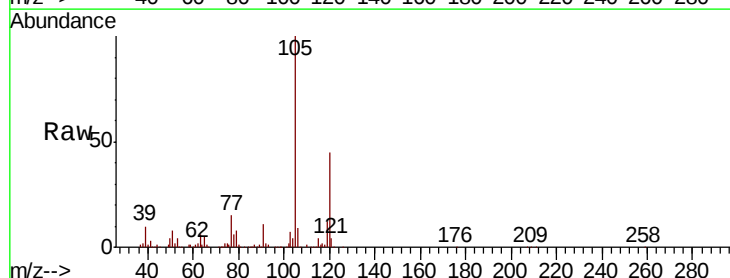
Acq: 2 Aug 2018 14:08

Tgt Ion:105 Resp: 243065

Ion Ratio Lower Upper

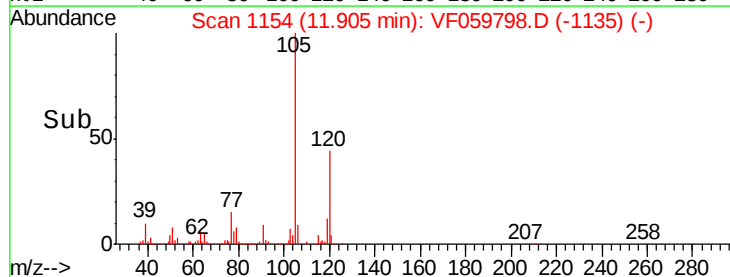
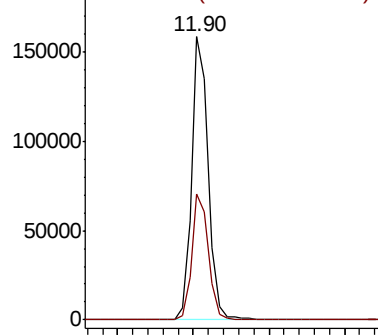
105 100

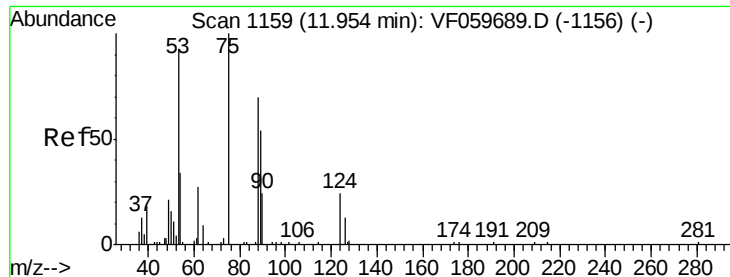
120 44.5 22.7 68.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 24.67 ug/l m

RT: 11.95 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

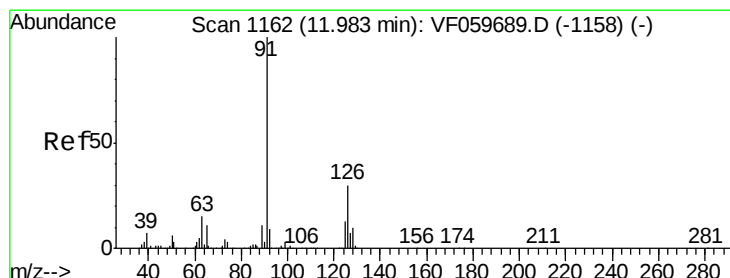
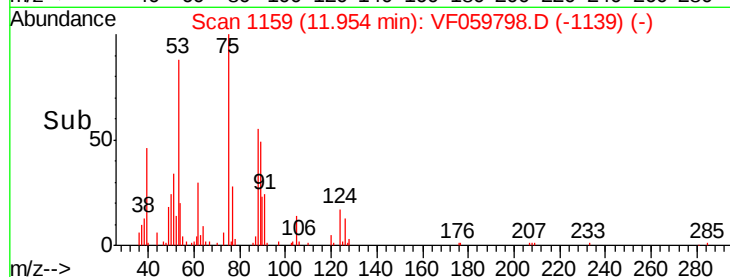
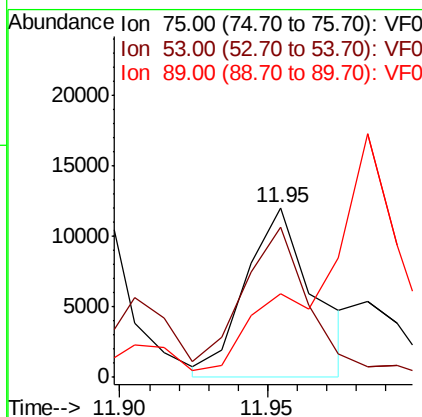
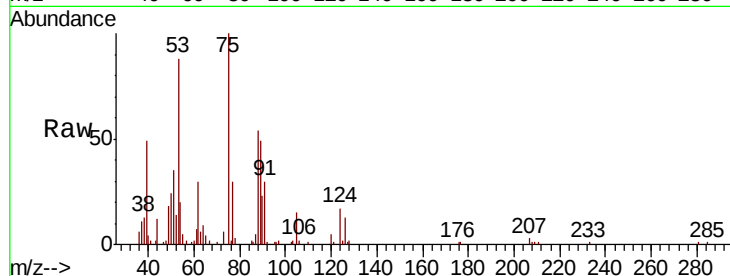
ClientSampleId :

VF0802SBS01

Tot Ion:	75	Resp:	19377
Ion	Ratio	Lower	Upper
75	100		
53	88.4	78.3	117.5
89	49.4	45.4	68.2

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



#82

4-Chlorotoluene

Concen: 23.38 ug/l

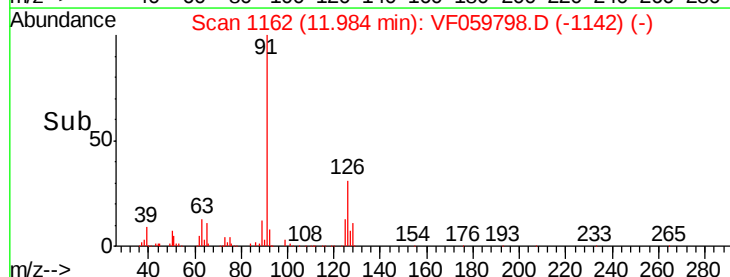
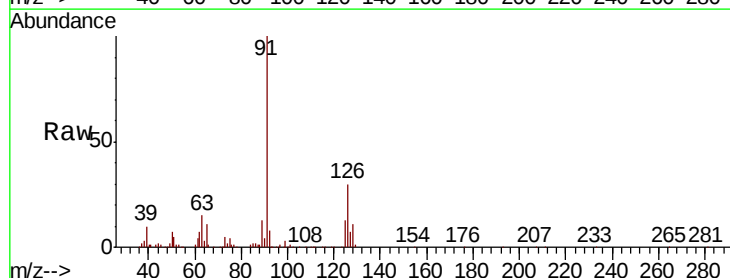
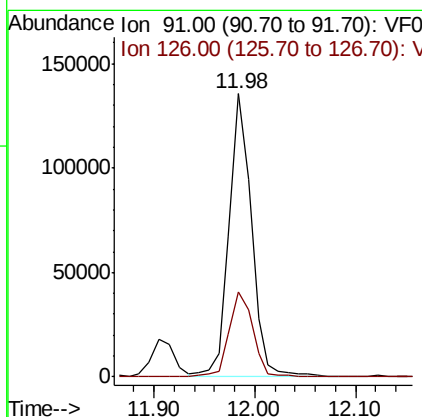
RT: 11.98 min Scan# 1162

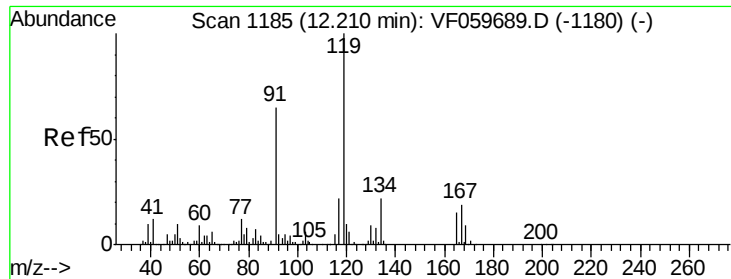
Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Tgt Ion:	91	Resp:	208397
Ion	Ratio	Lower	Upper
91	100		
126	30.1	15.2	45.6





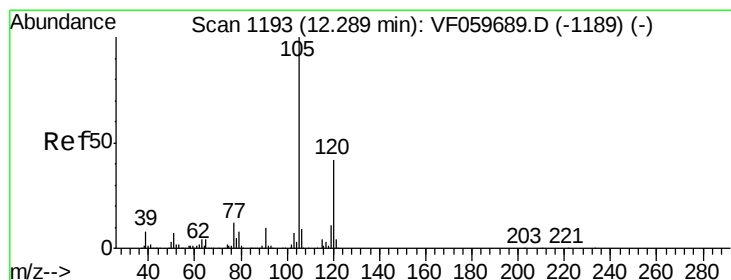
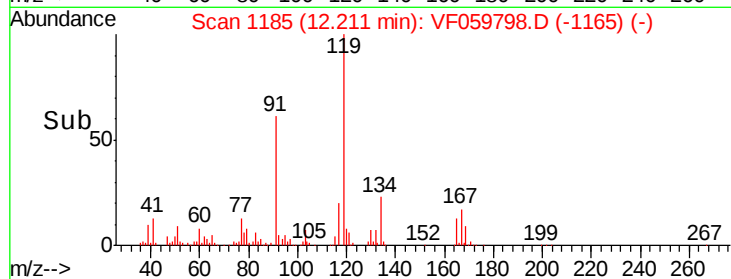
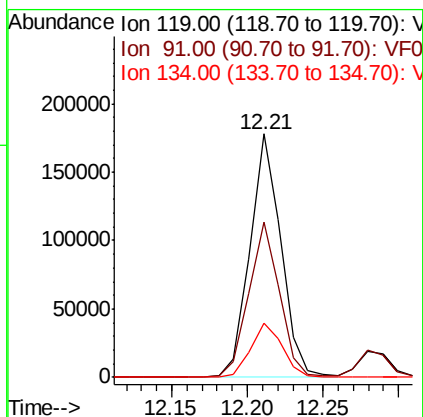
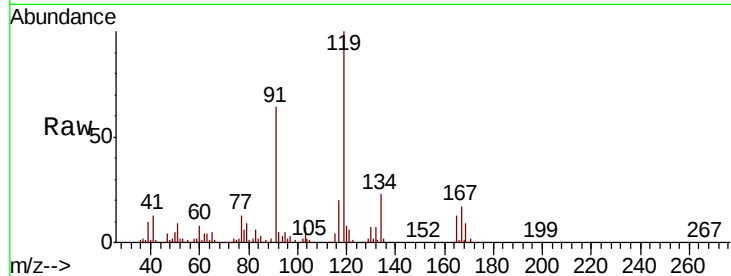
#83
 tert-Butylbenzene
 Concen: 24.03 ug/l
 RT: 12.21 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	255595		
91	63.7	32.8	98.4	
134	22.5	10.9	32.7	

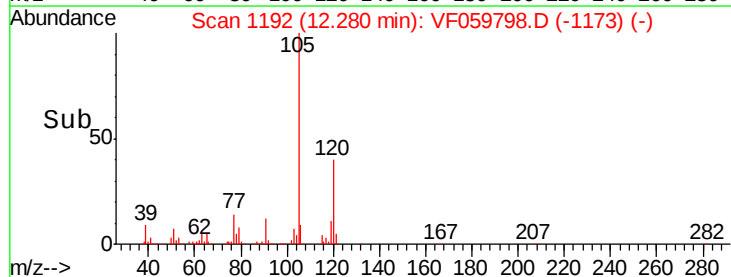
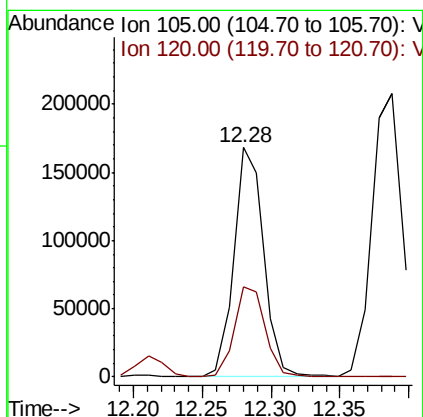
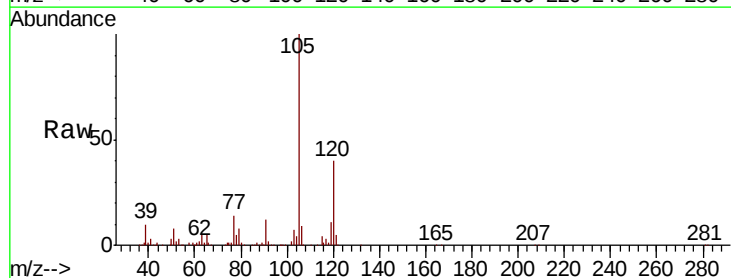
Manual Integrations
 APPROVED

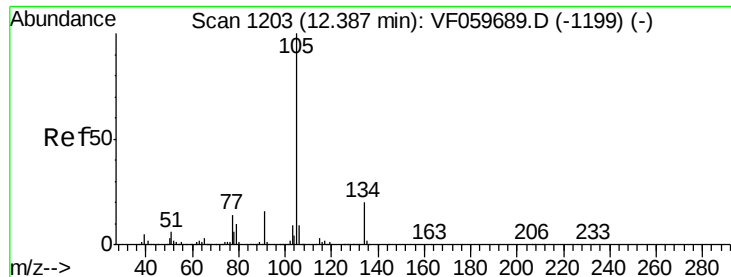
apatel
 8/3/2018 2:39:00 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 24.36 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. -0.01 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	254469		
120	39.6	21.1	63.3	





#85

sec-Butylbenzene

Concen: 23.85 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

Instrument :

MSVOA_F

ClientSampleId :

VF0802SBS01

Tot Ion:105 Resp: 322854

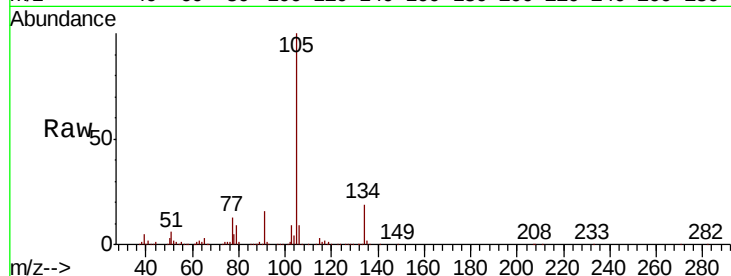
Ion Ratio Lower Upper

105 100

134 19.3 9.8 29.3

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

200000

150000

100000

50000

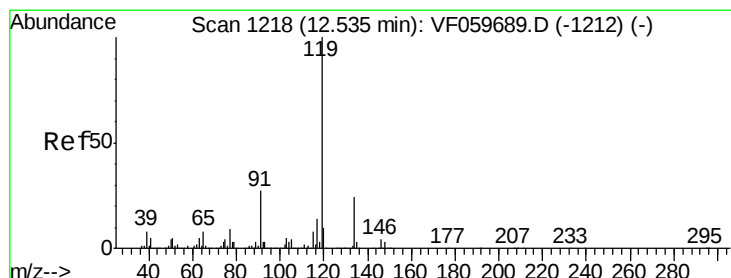
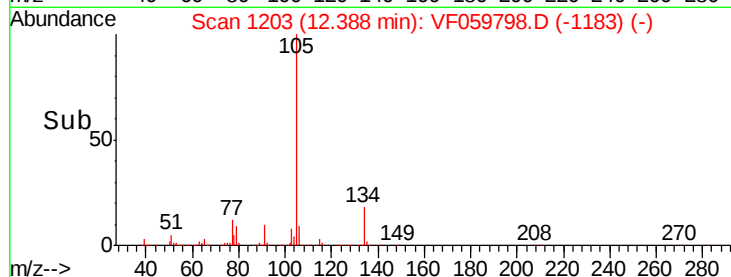
0

12.30

12.40

12.50

Time-->



#86

p-Isopropyltoluene

Concen: 23.99 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059798.D

Acq: 2 Aug 2018 14:08

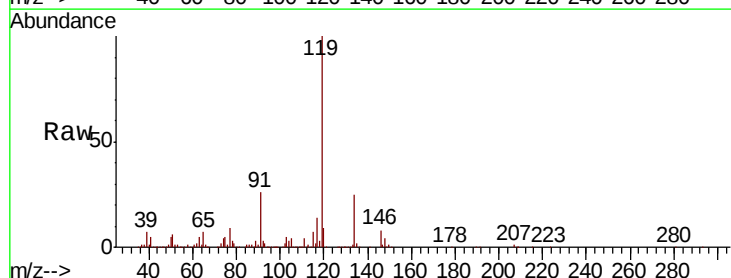
Tgt Ion:119 Resp: 283856

Ion Ratio Lower Upper

119 100

134 25.4 12.2 36.6

91 26.2 13.4 40.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

300000

250000

200000

150000

100000

50000

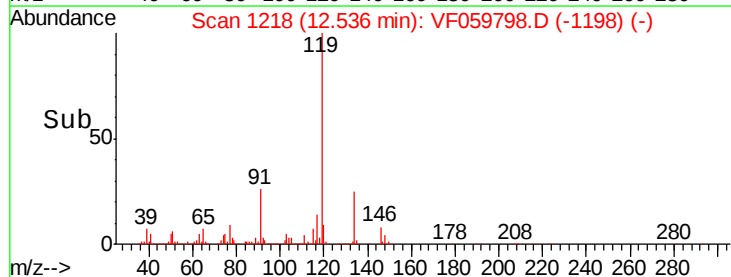
0

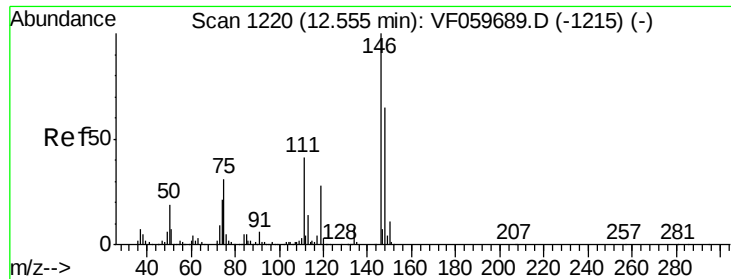
12.50

12.60

12.70

Time-->





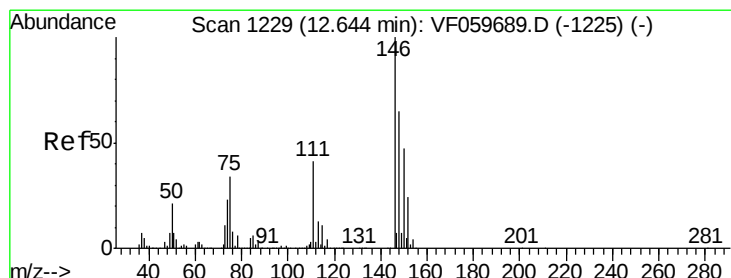
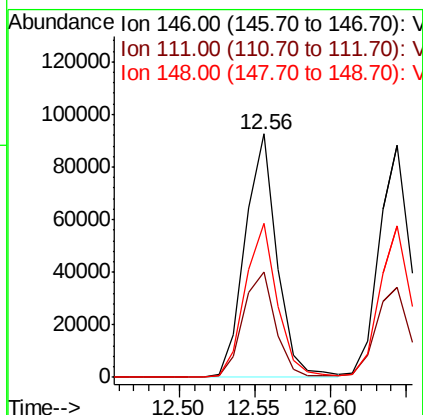
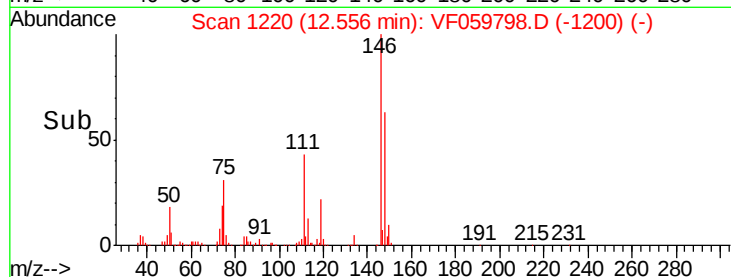
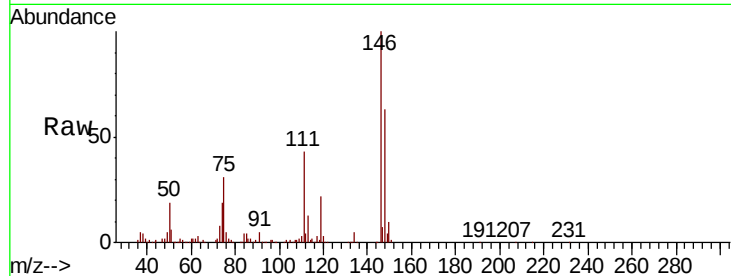
#87
 1,3-Dichlorobenzene
 Concen: 23.79 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.7	62.1
148	63.2	32.3	96.8

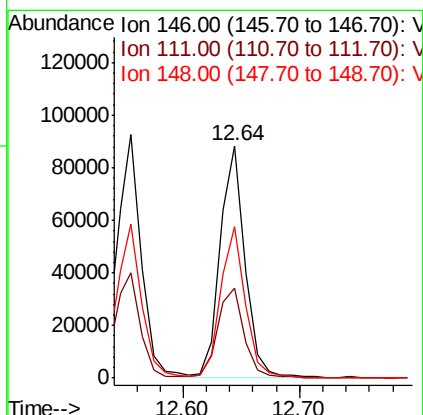
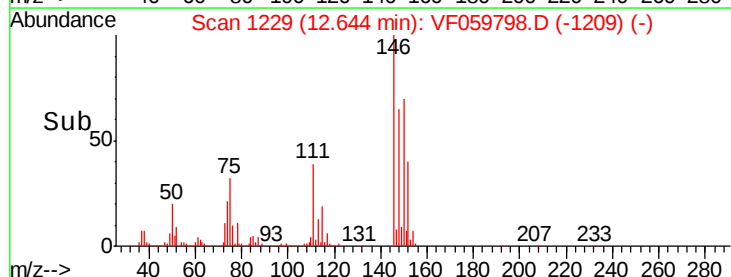
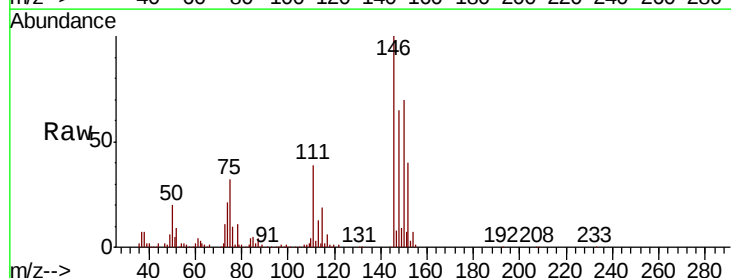
Manual Integrations
 APPROVED

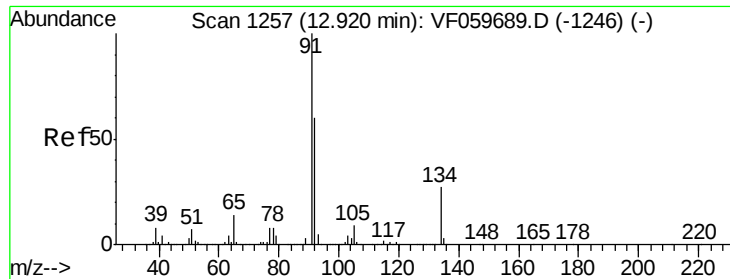
apatel
 8/3/2018 2:39:00 PM



#88
 1,4-Dichlorobenzene
 Concen: 23.34 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.8	62.2
148	65.2	32.3	96.9





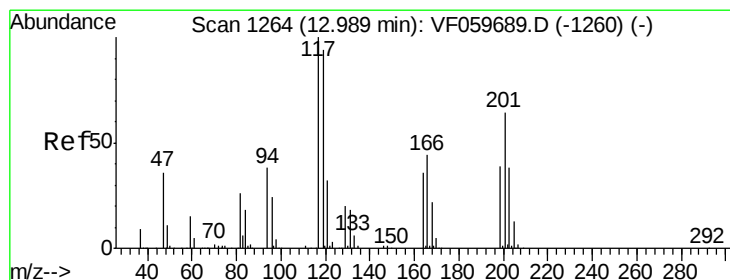
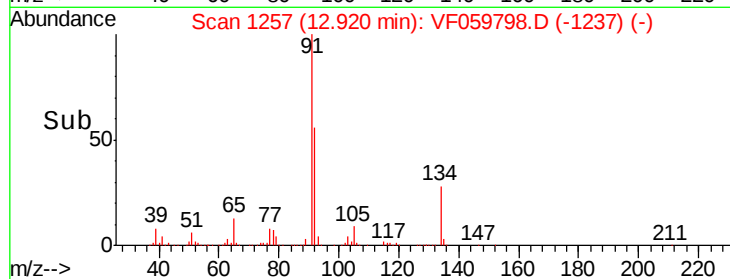
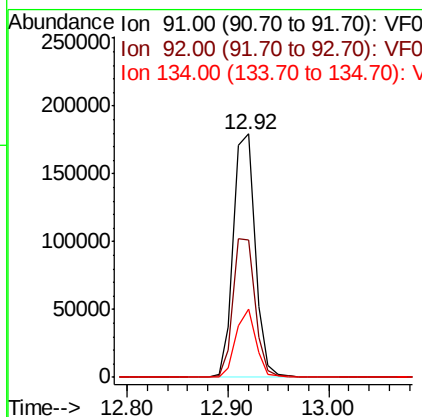
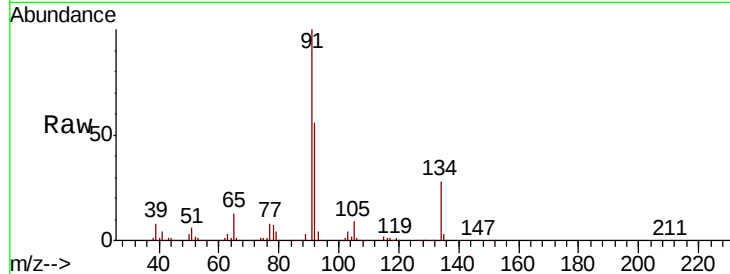
#89
n-Butylbenzene
Concen: 23.97 ug/l
RT: 12.92 min Scan# 1257
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	270064		
92	56.5		30.1	90.3
134	27.9		13.7	41.0

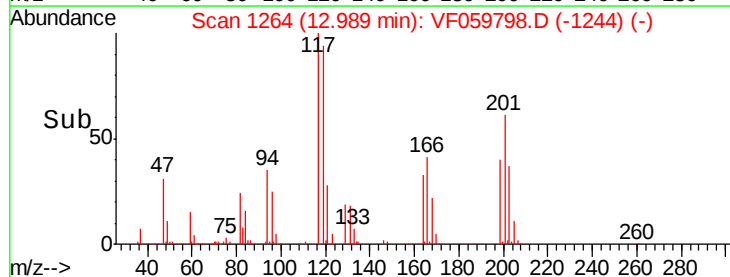
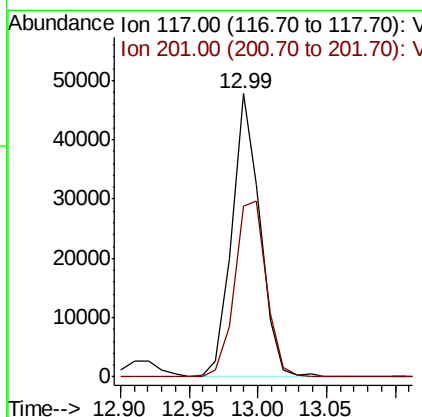
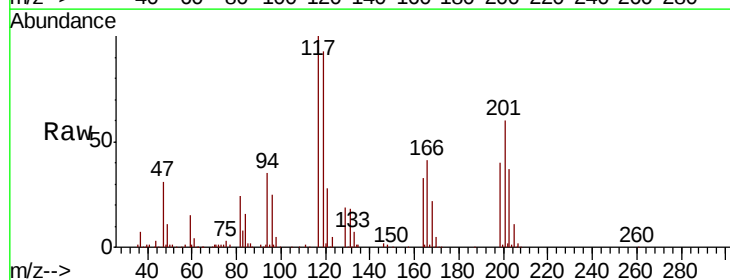
Manual Integrations
APPROVED

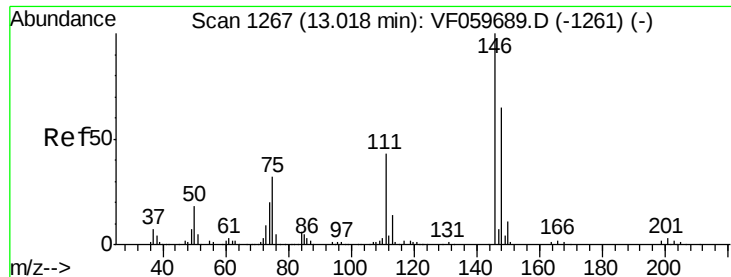
apatel
8/3/2018 2:39:00 PM



#90
Hexachloroethane
Concen: 22.72 ug/l
RT: 12.99 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	67905		
201	60.4		31.9	95.5





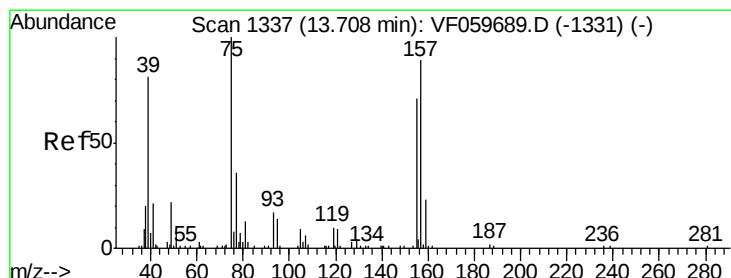
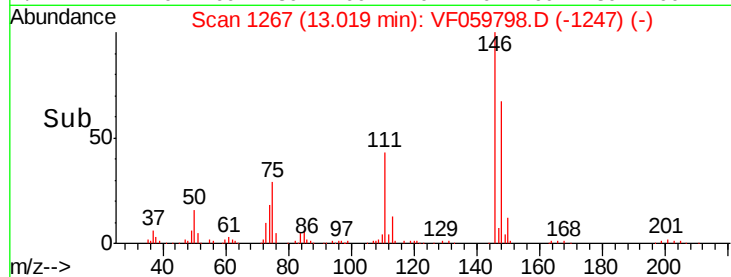
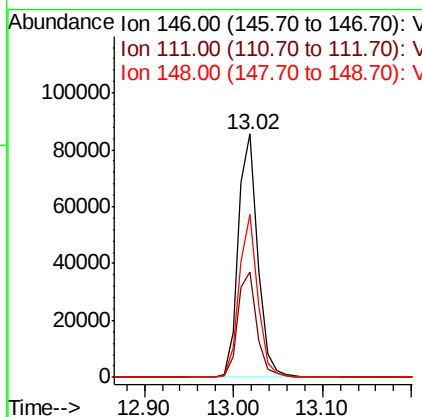
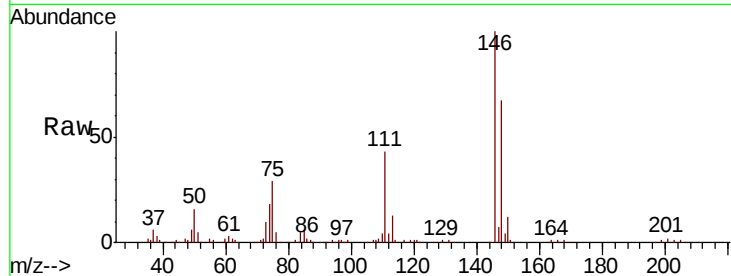
#91
 1,2-Dichlorobenzene
 Concen: 24.26 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0802SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	65.0
148	66.8	32.3	96.9

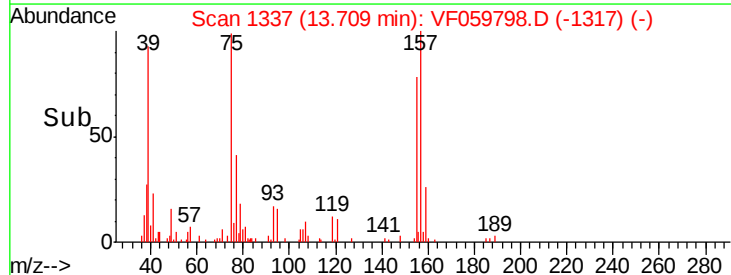
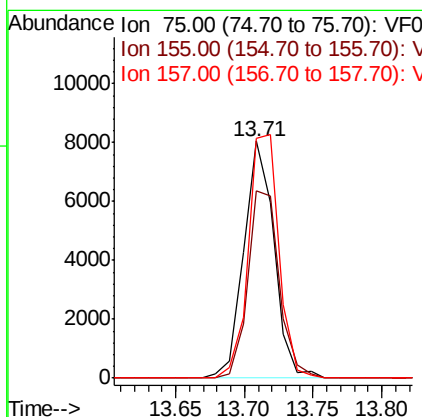
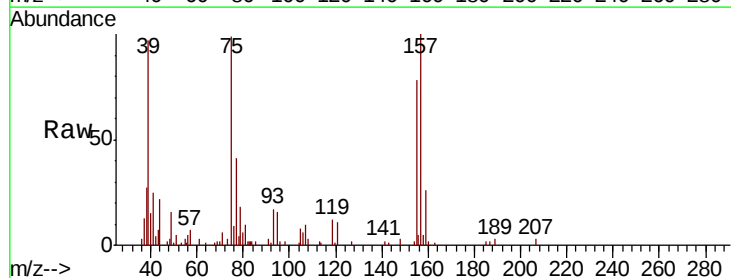
Manual Integrations
 APPROVED

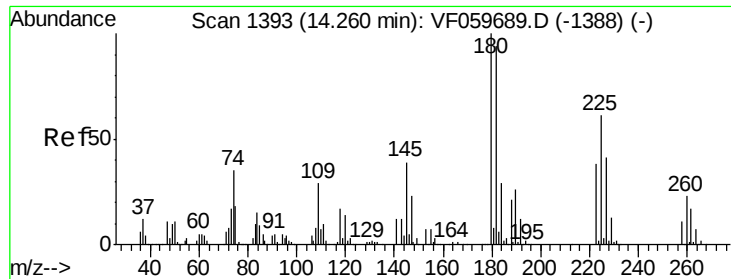
apatel
 8/3/2018 2:39:00 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.75 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059798.D
 Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.3	35.4	106.2
157	101.2	44.4	133.2





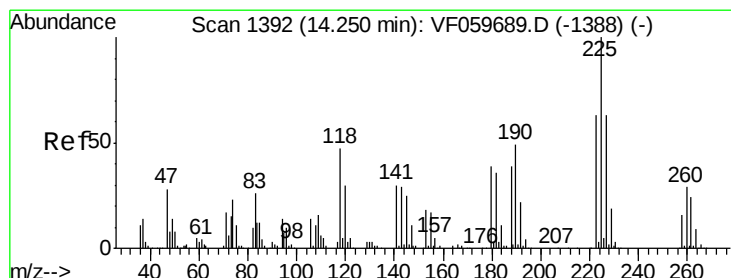
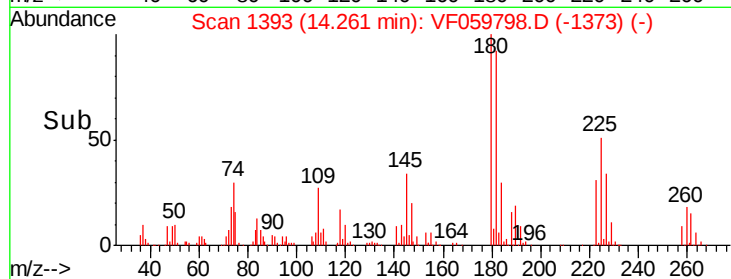
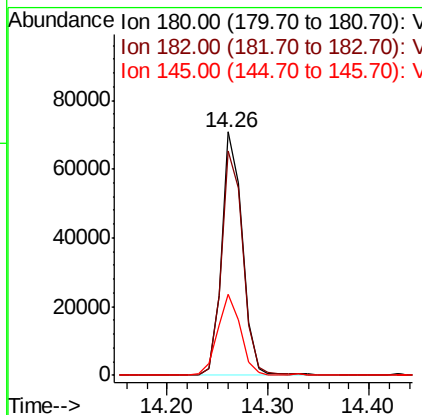
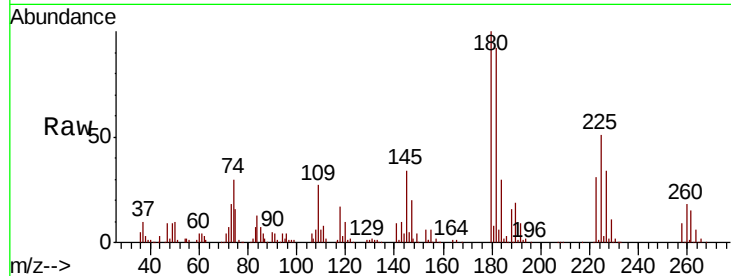
#93
1,2,4-Trichlorobenzene
Concen: 23.30 ug/l
RT: 14.26 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	92.2	47.2	141.6	
145	33.5	19.3	57.9	

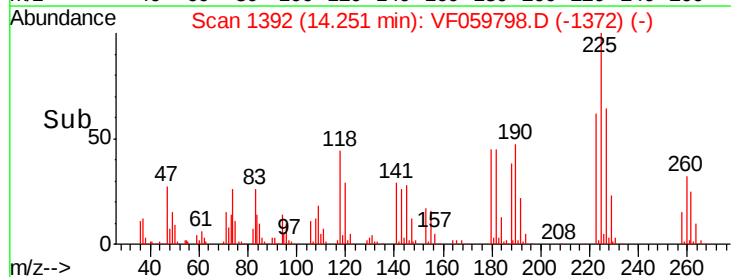
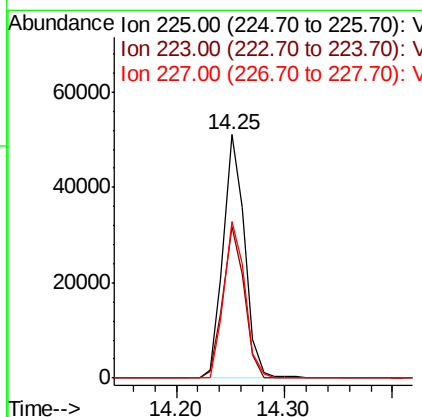
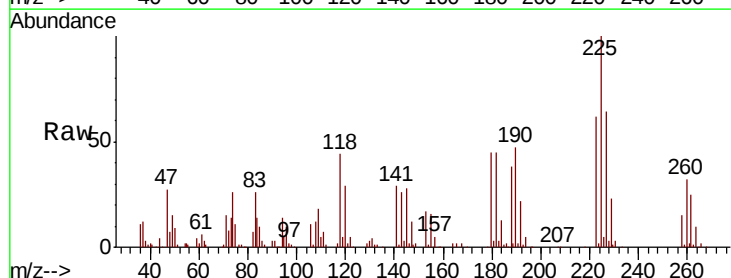
Manual Integrations
APPROVED

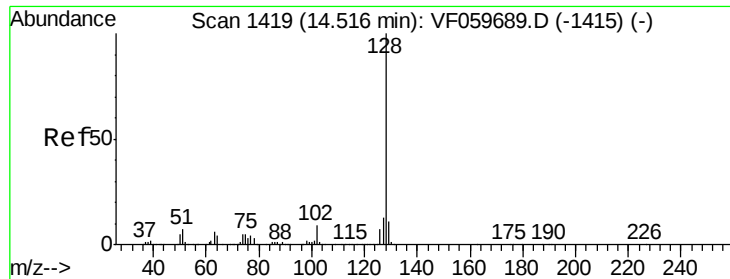
apatel
8/3/2018 2:39:00 PM



#94
Hexachlorobutadiene
Concen: 24.07 ug/l
RT: 14.25 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.0	31.4	94.2	
227	64.2	31.5	94.5	





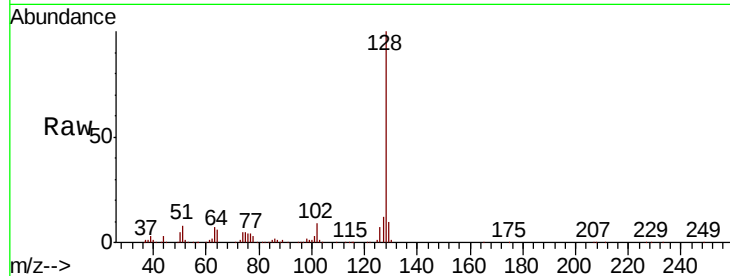
#95
Naphthalene
Concen: 22.57 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Instrument :
MSVOA_F
ClientSampleId :
VF0802SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.0	15.0
129	10.3	8.6	13.0

Manual Integrations
APPROVED

apatel
8/3/2018 2:39:00 PM

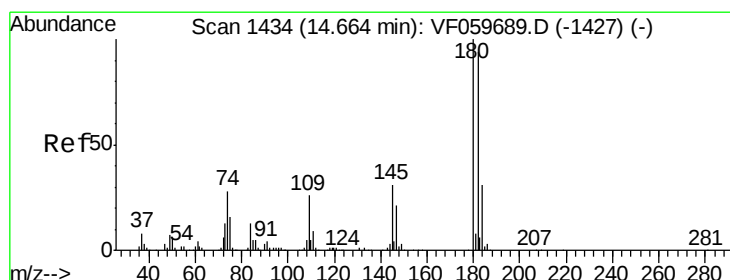
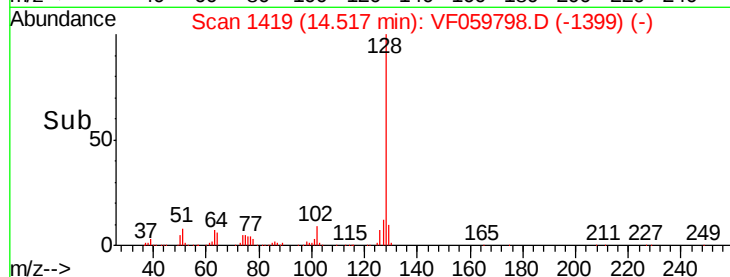
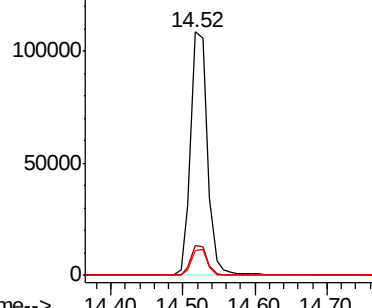


Abundance

Ion 128.00 (127.70 to 128.70): V

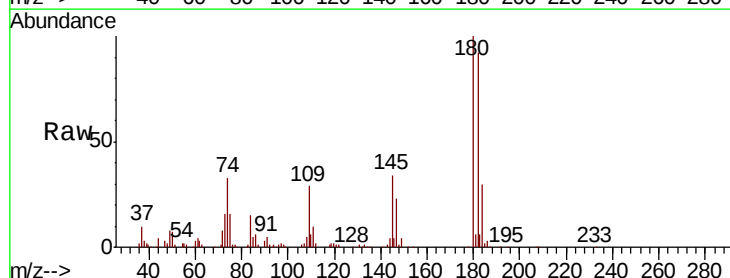
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 22.01 ug/l
RT: 14.66 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059798.D
Acq: 2 Aug 2018 14:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.2	141.6
145	33.8	15.6	46.7



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

